JD USA, LAS AMERICAS PREMIUM OUTLETS, STORE #1425

JD SPORTS USA.
3308 NORTH MITTHOEFFER ROAD,
INDIANAPOLIS, IN 46235
USA
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SITE LOCATION:

JD USA
4155 CAMINO DE LA PLAZA
SPACE 0448A
SAN DIEGO, CA 92173

DRAWING ISSUE

DRAWING STAGE: DD ISSUE
DRAWN BY: TW
CHECKED BY: IT
ISSUE DATE: 05/23/2025
GRADE: STREAMLINE - DUAL KIT COLOR

GOVERNING CODES

BUILDING	2022 CALIFORNIA BUILDING CODE (VOL. 1 & VOL. 2) W/ 2023 SAN DIEGO COUNTY AMENDMENTS
MECHANICAL	2022 CALIFORNIA MECHANICAL CODE W/ 2023 SAN DIEGO COUNTY AMENDMENTS
PLUMBING	2022 CALIFORNIA PLUMBING CODE W/ 2023 SAN DIEGO COUNTY AMENDMENTS
ELECTRICAL	2022 CALIFORNIA ELECTRICAL CODE W/ 2023 SAN DIEGO COUNTY AMENDMENTS
FIRE	2022 CALIFORNIA FIRE CODE
ENERGY	2022 CALIFORNIA ENERGY CODE W/ 2023 SAN DIEGO COUNTY AMENDMENTS
EXISTING	2022 CALIFORNIA EXISTING BUILDING CODE W/ 2023 SAN DIEGO COUNTY AMENDMENTS
GREEN BUILDING	2022 CALIFORNIA GREEN BUILDING STANDARDS CODE W/ 2023 SAN DIEGO COUNTY AMENDMENTS

BUILDING SUMMARY

RENTAL SPACE	UNIT 448 & 451	
TYPE OF CONSTRUCTION	TYPE II-B - FULLY SPRINKLERED	
OCCUPANCY TYPE	MERCANTILE	
TENANT STORE SPACE AREA:	12139 sq.ft.	1,128 m. sq.

USE	TOTAL S.F. (GROSS)	OCCUPANT LOAD FACTOR (SF/OCC)	OCCUPANT LOAD
SALES AREA:	6062	60	101
FITTING ROOMS & VESTIBULE:	110	60	2
HALLWAY:	200	300	1
ACCESSIBLE RESTROOM 1:	63	1 PER	1
ACCESSIBLE RESTROOM 2:	60	1 PER	1
STOCKROOM & DISPLAY AREA:	5305	300	18
MANAGER'S OFFICE:	73	150	1
STAFF AREA:	204	15	14
LOCKER ROOM:	62	15	5
GROSS LEASEABLE SPACE:	12139		144

OCCUPANT LOAD	144
GOVERNING BUILDING CODE	2022 CALIFORNIA BUILDING CODE (VOL. 1 & VOL. 2) W/ 2023 SAN DIEGO COUNTY AMENDMENTS
JD SPORTS CODE OF CONDUCT	PER GENERAL NOTES
LANDLORD'S APPROVAL	N/A
SCOPE OF WORK	INTERIOR ALTERATIONS TO 4155 CAMINO DE LA PLAZA, SPACE 448A, SAN DIEGO, CA 92173 TO INCLUDE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND STORAGE RACKING. THE FOLLOWING SCOPE OF WORK WILL BE ISSUED AS A DEFERRED SUBMITTAL: -FIRE SPRINKLER ALTERATIONS -FIRE ALARM -SIGNAGE
PLUMBING FACILITIES	OCCUPANT LOAD (MALE): 72 (CPC 422.1, TABLE 4-1) OCCUPANT LOAD (FEMALE): 72 (CPC 422.1, TABLE 4-1) WATER CLOSET REQUIRED: 1 PER 100 WATER CLOSET PROVIDED: 2 LAVATORY REQUIRED: 1 PER 200 LAVATORY PROVIDED: 2 SERVICE SINK REQUIRED: 1 SERVICE SINK PROVIDED: 1 DRINKING FOUNTAIN REQUIRED: 1 (HIGH AND LOW) DRINKING FOUNTAIN PROVIDED: 1 2022 CPC 422.4 EACH BUILDING OR STRUCTURE SHALL BE PROVIDED WITH TOILET FACILITIES FOR EMPLOYEES AND CUSTOMERS. REQUIREMENTS FOR CUSTOMERS AND EMPLOYEES SHALL BE PERMITTED TO BE MET WITH A SINGLE SET OF RESTROOMS ACCESSIBLE TO BOTH GROUPS. REQUIRED TOILET FACILITIES FOR EMPLOYEES AND CUSTOMERS LOCATED IN SHOPPING MALLS OR CENTERS SHALL BE PERMITTED TO BE MET BY PROVIDING A CENTRALLY LOCATED TOILET FACILITY ACCESSIBLE TO SEVERAL STORES. THE MAXIMUM TRAVEL DISTANCE FROM ENTRY TO ANY STORE TO THE TOILET FACILITY SHALL NOT EXCEED 300 FEET. REQUIRED TOILET FACILITIES FOR EMPLOYEES AND CUSTOMERS IN OTHER THAN SHOPPING MALLS OR CENTERS SHALL HAVE A MAXIMUM TRAVEL DISTANCE NOT TO EXCEED 500 FEET.

DEFERRED SUBMITTAL NOTES (PER CITY OF SAN DIEGO INFORMATION BULLETIN 188):

- PLANS FOR THE DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED IN A TIMELY MANNER BUT NOT LESS THAN 30 BUSINESS DAYS PRIOR TO INSTALLATION FOR CITY REVIEW AND APPROVAL.
- THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL. [SDMC §129.0205]
- THE REGISTERED AND RESPONSIBLE DESIGN PROFESSIONAL SHALL REVIEW THE DEFERRED SUBMITTAL DOCUMENTS AND SUBMIT THEM TO THE BUILDING OFFICIAL, WITH ANNOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING. [SDMC §129.0205].

PROJECT CONTACTS:

ARCHITECT:
MCG ARCHITECTURE
250 SUTTER STREET, SUITE 450
SAN FRANCISCO, CA 94108
ARCHITECT OF RECORD: PAGE WINKLER
CONTACT: JORGE CALDERON (PRINCIPAL)
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PROJECT MANAGER:
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DESIGN MANAGER:
FIRM: JD PLC.
NAME: IVONNE TIU
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LEAD DESIGNER:
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NAME: TENIELE WITTE
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PHONE: (317) 794-5219

MECHANICAL AND PLUMBING ENGINEER:
FIRM: ACIES
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PHONE: (408) 522-5255 EXT. 250

ELECTRICAL ENGINEER:
FIRM: ACIES
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EMAIL: RIZALINO@ACIES.NET
PHONE: (408) 522-5255 EXT. 134

LANDLORD:
FIRM: SIMON PROPERTY GROUP
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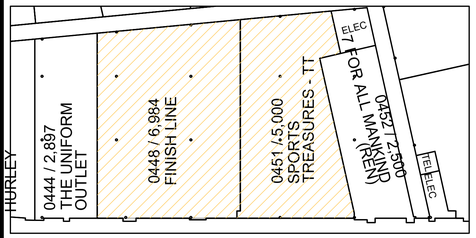
NAME: ROBERT KROM
EMAIL: ROBERT.KROM@SIMON.COM
PHONE: (972) 850-2884

LEASE OUTLINE DRAWING (LOD):

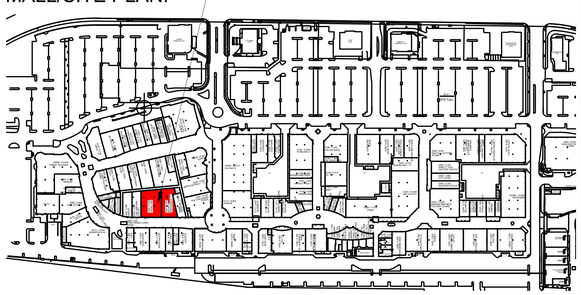


APN:	666-401-1400
ADDRESS:	4155 CAMINO DE LA PLAZA SAN YSIDRO, CA 92173-2961
LEGAL DESCRIPTION:	LOT 6
YEAR CONSTRUCTED:	2001
ASSESSOR LAND:	$2,754,604.00
ASSESSOR TOTAL:	$5,091,193.00
TAX STATUS:	T
TAX RATE AREA:	08248

NORTH

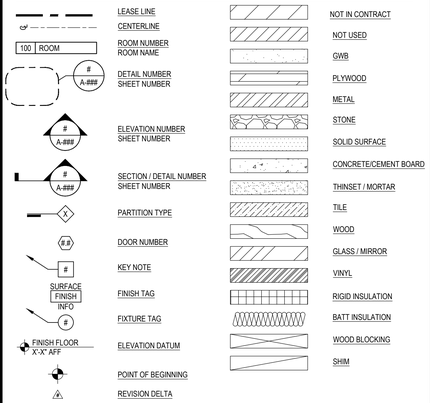
MALL/SITE PLAN:

PROPOSED JD SPORTS STORE # 1425



NORTH

GENERAL SYMBOLS



GENERAL NOTES

ARCHITECTURAL GENERAL NOTES:

1. ALL REQUIRED PERMITS MUST BE OBTAINED FROM THE REQUIRED GOVERNING AGENCIES BEFORE BUILDINGS ARE OCCUPIED.
2. GC SHALL BE RESPONSIBLE FOR AND OBTAIN ALL INSPECTIONS AND LICENSES AND PAY REQUIRED FEES.GC TO INCLUDE INSPECTIONS FOR JURISDICTION AND THIRD PARTY.
3. GC SHALL INVESTIGATE LOCAL CODES AND PROCEDURES AND SHALL COMPLY WITH ALL REQUIREMENTS.
4. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DRAWINGS.
5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE OWNER, PROJECT MANAGER, AND ARCHITECT'S ATTENTION IMMEDIATELY. FAILURE TO DO SO WILL RESULT IN CHANGE ORDERS BEING COVERED BY THE GC.
6. GC SHALL INSPECT SITE & VERIFY FIELD DIMENSIONS BEFORE COMMENCING CONSTRUCTION. NOTIFY OWNER, PROJECT MANAGER, AND ARCHITECT IMMEDIATELY IF THERE ARE ANY SIGNIFICANT DISCREPANCIES. FAILURE TO DO SO WILL RESULT IN CHANGE ORDERS BEING COVERED BY THE GC.
7. DIMENSIONS SHOWN ON PLANS ARE TO FACE OF EXTERIOR MASONRY, CONCRETE COLUMN OR GRID LINES AND FACE OF GYP. BD. UNLESS OTHERWISE NOTED OR DETAILED.
8. GRILLS, DIFFUSERS, METAL TRIM AND OTHER ACCESSORIES SHALL COME FACTORY FINISHED. IF THEY COME OTHERWISE, GC TO VERIFY FINISH WITH PROJECT MANAGER.
9. GC SHALL IN THE WORK OF ALL TRADES, PERFORM ANY AND ALL CUTTING, PATCHING, REPAIRING, RESTORING AND THE LIKE NECESSARY TO COMPLETE THE WORK AND TO RESTORE ANY DAMAGED OR AFFECTED SURFACES RESULTING FROM THE WORK OF THIS CONTRACT TO THEIR ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER. ALL ROOF PATCHING AND REPAIRS SHALL RETURN AREA TO "LIKE NEW" CONDITION & SHALL BE WATER TIGHT. ALL ROOF WORK MUST BE PERFORMED BY THE LANDLORD REQUIRED GC AT TENANT EXPENSE.
10. GC SHALL COORDINATE WORK PERFORMED BY OTHER CONTRACTORS. DISCREPANCIES, IF ANY, SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER, PROJECT MANAGER, AND ARCHITECT FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.
11. ALL REQUEST FOR CLARIFICATIONS MUST BE SUBMITTED TO THE BID ADMINISTRATOR FOR APPROVAL DURING THE BIDDING PROCESS.
12. THE GC SHALL BE RESPONSIBLE FOR THE TIMELY ARRIVAL AND STORAGE OF ANY AND ALL SPECIFIED FINISH MATERIALS, EQUIPMENT, LIGHT FIXTURES AND ANY OTHER SUCH MATERIAL(S) THAT THEY ARE RESPONSIBLE FOR PROVIDING TO BE UTILIZED ON THIS PROJECT. THE GC SHALL NOTIFY THE OWNER, PROJECT MANAGER, AND ARCHITECT IN WRITING WITHIN 48 HOURS OF DATE OF CONTRACT OF THOSE SPECIFIED ITEMS THAT MAY NOT BE READILY AVAILABLE. IF NOTIFICATION IS NOT RECEIVED BY THE ARCHITECT & OWNER, THE GC ACCEPTS RESPONSIBILITY FOR THE PROPER ORDERING AND FOLLOW-UP OF SPECIFIED ITEMS AND WILL PURSUE WHATEVER MEANS NECESSARY AT NO ADDITIONAL COST TO THE OWNER, TO ASSURE AVAILABILITY OF ALL SPECIFIED ITEMS SO AS NOT TO CREATE A HARDSHIP ON THE OWNER & NOT DELAY PROGRESS OF THE WORK. NO EXTENSION OF TIME TO THE CONTRACT WILL BE ALLOWED.
13. MECHANICAL CONTRACTOR SHALL VERIFY EXACT DIMENSIONS WITH EQUIPMENT MANUFACTURERS. MECHANICAL CONTRACTOR SHALL VERIFY ALL SIZES AND LOCATIONS OF DUCT OPENINGS BEFORE INSTALLATION AND VERIFY DISCREPANCIES WITH THE OWNER, PROJECT MANAGER AND ARCHITECT, IF ANY.
14. FOR SIZE AND LOCATIONS OF ALL OPENINGS FOR MECHANICAL DUCT WORK, REFER TO MECHANICAL DRAWINGS.
15. ALL EXTERIOR WALL OPENINGS, FLASHINGS, COUNTER FLASHINGS, COPING AND EXPANSION JOINTS SHALL BE WATERPROOF.
16. CAULKING AND SEALANTS: ALL OPEN JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED, CAULKED, GASKETED, OR WEATHER STRIPPED TO LIMIT AIR LEAKAGE AND MEET CODE REQUIREMENT.
17. GC SHALL LEAVE THE SITE IN A NEAT, CLEAN AND ORDERLY CONDITION UPON THE CONCLUSION OF HIS WORK ON A DAILY BASIS. ALL WASTE, RUBBISH AND EXCESS MATERIALS SHALL BE REMOVED FROM THE SITE PROMPTLY. THE GC SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL TRASH, INCLUDING OWNER FURNISHED ITEMS AND TRASH GENERATED BY OWNER'S CONTRACTORS FOR THE DURATION OF THE PROJECT.
18. SAFETY: ALL CONDUCT, WORK, EQUIPMENT AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST SAFETY RULES AND REGULATIONS OF ALL AUTHORITIES AND AGENCIES HAVING JURISDICTION.
19. GC PROVIDED MATERIALS FOUND TO BE DEFECTIVE SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.
20. WORK COMPLETED BY OTHERS SHALL BE PROTECTED. IF OTHER TRADES CAUSE ANY DAMAGE IT IS THE RESPONSIBILITY OF THE GC AND THE SAID TRADE TO COORDINATE REPAIRS WITH NO ADDITIONAL COST OR SCHEDULE CHANGES TO THE OWNER.
21. FOR THE PURPOSE OF BIDDING, PROPRIETARY NAMES IDENTIFYING ITEMS OF WORK ARE USED SOLELY TO DESCRIBE THE STANDARD OF THE PROJECT OR THE COLOR OF THE FINISH, UNLESS THE ITEMS OF WORK ARE EXPLICITLY NOTED AS NOT HAVING AN EQUAL.
22. THE GC SHALL REMEDY, WITHOUT COST TO THE OWNER, ANY DEFECTS DUE TO FAULTY WORKMANSHIP.
23. THE GC IS RESPONSIBLE FOR ALL TEMPORARY POWER AS NECESSARY.
24. THE GC SHALL PROVIDE AN ON-SITE SUPERINTENDENT FOR THE DURATION OF THE CONSTRUCTION PROJECT THROUGH THE OPENING OF THE STORE AND ANY LL PUNCH WALK.
25. THE GC SHALL LEAVE NO GAPS AND FILL SOLID TO PIPING AND DUCTWORK TO MAINTAIN THE STRUCTURAL INTEGRITY OF DEMISING WALLS AND MAINTAIN THE MINIMUM FIRE RATING.
26. ALL PAINT SHALL BE AS SPECIFIED, FURNISHED, AND INSTALLED BY GC EXCEPT WHERE OTHERWISE SPECIFIED TO BE BY FIXTURE CONTRACTOR OR OWNER.
27. ALL WORK, MATERIALS, AND EQUIPMENT SHALL BE GUARANTEED FOR A MINIMUM PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THE GC SHALL PROVIDE THE OWNER WITH ALL EQUIPMENT MANUALS, WARRANTIES AND OPERATING INSTRUCTIONS UPON FINAL ACCEPTANCE.
28. THE GC SHALL BE RESPONSIBLE FOR COORDINATING WITH OWNER ON ALL WORK TO BE PERFORMED BY THE OWNER. ANY POTENTIAL CONFLICTS OR DELAYS CAUSED BY THE OWNER'S SUBCONTRACTORS MUST BE DOCUMENTED IN WRITING TO THE PROJECT MANAGER BEFORE THE DELAY IS ACTUALLY INCURRED FOR IT TO BE CONSIDERED. OTHERWISE THE GC WILL BE RESPONSIBLE FOR MEETING THE SCHEDULE AS OUTLINED IN THE CONTRACT.
29. THE GC SHALL SUPPLY ALL MATERIALS, LABOR AND COORDINATION REQUIRED FOR THE INSTALLATION OF ALL OWNER SUPPLIED ITEMS AS DESCRIBED IN THE DOCUMENTS.
30. THE GC IS RESPONSIBLE FOR ALL FLOOR AND WALL PENETRATIONS FOR ELECTRICAL AND MECHANICAL WORK. ALL SUCH OPENINGS SHALL BE FRAMED AND REINFORCED.
31. THE GC SHALL CLEAN THE SITE OF ALL UNNECESSARY DEBRIS PRIOR TO STARTING CONSTRUCTION, AND SHALL KEEP THE SITE NEAT AND CLEAN AT ALL TIMES. THE GC SHALL CLEAN ALL DOORS, WINDOW GLASS, INTERIOR AND EXTERIOR WALLS, CEILING AND FLOORS, AS WELL AS ALL INSTALLED ITEMS (FIXTURES & FURNITURE) BEFORE VACATING THE PREMISES AND OWNER MOVE-IN.
32. ALL EXISTING FIREPROOFING TO BE MAINTAINED. DAMAGE OR REMOVAL OF FIREPROOFING MUST BE REPAIRED OR REPLACED AT NO COST TO OWNER.
33. THE COMPLETE BID/ PERMIT/ CONSTRUCTION DOCUMENTS FOR THIS PROJECT CONSISTS OF THE ENTIRE TABLE OF CONTENTS. WHICH MUST NOT BE SEPERATED FOR ANY REASON. THE ARCHITECT AND OWNER DISCLAIM ANY RESPONSIBILITY FOR ANY ASSUMPTIONS MADE BY A GENERAL CONTRACTOR OR SUBCONTRACTOR WHO DOES NOT RECEIVE A COMPLETE SET OF DOCUMENTS DURING THE BID AND CONSTRUCTION PHASES.

FIRE PROTECTION SYSTEM GENERAL NOTES:

1. ANY FIRE PROTECTION SYSTEMS SHOWN IN THIS DRAWING SET ARE FOR PERFORMANCE ONLY.
2. GC TO PROVIDE A COMPLETE FIRE PROTECTION SPRINKLER SYSTEM FOR ALL AREAS OF THE SPACE. DRAWINGS SHALL BE PREPARED BY THE SPRINKLER CONTRACTOR WHO SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE LOCAL AND STATE LAWS GOVERNING FIRE RATING AND/OR INSPECTION BUREAU, N.F.P.A. AND INSURANCE ASSOCIATIONS. PREPARE SHOP DRAWINGS AND OBTAIN APPROVAL FROM ALL AUTHORITIES HAVING JURISDICTION. GC SHALL VISIT THE PROJECT SITE TO ASCERTAIN THE EXTENT AND LOCATION OF ALL EXISTING SPRINKLER DROP LOCATIONS (IF ANY). RELOCATE AND/OR ADD SPRINKLER HEADS AS REQUIRED TO PROVIDE A COMPLETE APPROVED SYSTEM. USE L.L. APPROVED SPRINKLER CONTRACTOR.
3. ALL SPRINKLER HEAD LOCATIONS AND ALL FEEDER PIPE LOCATIONS MUST BE COORDINATED WITH THE MEP ENGINEER PRIOR TO BEGINNING WORK. PROVIDE OWNER WITH SHOP DRAWINGS. SPRINKLER HEAD FINISH SHALL BE SCREW-IN TYPE.
4. PROVIDE OCCUPANCY SIGNS CONFORMING TO APPLICABLE BUILDING CODE REQUIREMENTS OR IN ACCORDANCE WITH FIRE MARSHALL REQUEST.
5. PROVIDE EXIT SIGNS IN TYPE, NUMBER AND LOCATION AS SHOWN OR IN ACCORDANCE WITH FIRE MARSHALL REQUEST.
6. PROVIDE FIRE EXTINGUISHERS IN TYPE, NUMBER AND LOCATIONS AS SHOWN ON PLANS AND IN ACCORDANCE WITH FIRE MARSHAL.
7. GC SHALL VERIFY, COORDINATE AND/OR PROVIDE ANY SMOKE DETECTION AND/OR FIRE ALARM CONNECTORS AS SHOWN AND AS REQUIRED BY FIRE MARSHAL.
8. DURING CONSTRUCTION THE GC IS TO PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A WITHIN (75 FT.) FOOT TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT ON EACH FLOOR.
9. ALL WOOD CONSTRUCTION IN CAVITIES SHALL BE FIRE RETARDANT TREATED.
8. COORDINATE SPRINKLER DRAIN DOWN WITH LANDLORD AND CONTRACTOR.
10. ANY PAINT USED SHALL BE NON-COMBUSTIBLE OR BE FLAME PROOFED IN AN APPROVED MANNER.
11. ALL REQUIRED EMERGENCY EXITS SHALL HAVE EXIT SIGNS WITH LETTERS SIX (6) INCHES HIGH AND 3/4" WIDE IN CONTRASTING COLORS. SEE PLANS FOR LOCATIONS.

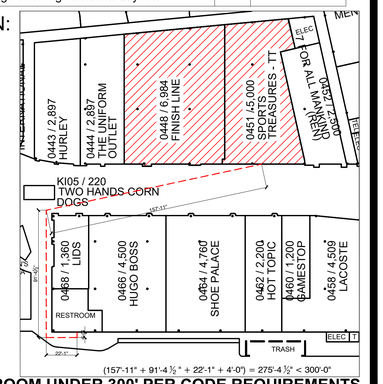
CONSTRUCTION CLASSIFICATION - TYPE II-B

BUILDING ELEMENT	FIRE RATING
STRUCTURAL	0-HR
BEARING WALLS	
EXTERIOR	0-HR
INTERIOR	0-HR
NONBEARING WALLS AND PARTITIONS EXTERIOR	N/A
NONBEARING WALLS AND PARTITIONS INTERIOR	0-HR
FLOOR CONSTRUCTION	
INCLUDING SUPPORTING BEAMS AND JOISTS	0-HR
ROOF CONSTRUCTION	
INCLUDING SUPPORTING BEAMS AND JOISTS	0-HR

DRAWING REGISTER

Delta				Sheet Number	Sheet Title	Rev
				Architectural		
●	●	●		A00.0	Front Cover	
●	●			A00.1	Demise	
	●			A00.2	Schedules	
●				A00.3	Code Plan	
				A00.4	ADA Compliance & Standards	
				A00.5	Specifications	
				A00.6	Specifications	
				A00.7	Specifications	
				A00.8	Specifications	
				A00.9	JD Sports Specifications	
	●			A00.10	Site Plan	
				A00.11	Green Building Notes	
				A00.12	Green Building Notes	
				A00.13	Green Building Notes	
				A00.14	Green Building Notes	
	●	●		A01.1	Demolitions	
	●			A02.0	Construction Plan	
	●	●		A02.1	General Arrangement Plan	
	●			A03.1	Merchandise Plan	
	●			A04.1	Reflected Ceiling Plan	
	●			A04.2	Architectural Power Plan	
				A05.1	Shopfront	
				A05.2	Shopfront	
				A05.3	Shopfront Sections	
				A05.4	Shopfront Sections	
				A05.5	Shopfront Details	
				A06.1	Internal Elevations	
				A06.2	Fitting Room Elevations	
				A06.3	Restroom Elevations	
	●			A07.1	Flooring & Finishes	
	●			A08.1	Fixtures and Fittings	
				A09.1	Door & Wall Schedule	
				A10.1A	Staff Area & Locker Room Elevations	
				A10.1B	Managers Room Elevations	
				A10.2	Typical Details	
	●			A10.4	Typical Ceiling Details	
				A10.5	Typical Ceiling Details	
	●			A10.6	Typical Interior Details	
				Structural		
		●		S100	Structural General Notes, Plan & Details	
				Mechanical		
				M-001	Mechanical Legend, Notes & Abbreviation	
				M-002	Mechanical Specifications	
				M-003	Mechanical Schedules	
				M-005	Comcheck Compliance	
				M-006	Comcheck Compliance	
				M-100	Mechanical Demolition Plan	
●	●			M-101	Mechanical Floor Plan	
	●			M-201	Mechanical Roof Plan	
				M-301	Mechanical Details	
				Electrical		
	●			E-001	Electrical General Information	
				E-003	Electrical Specifications	
				E-041	Electrical Compliance Forms	
				E-042	Electrical Compliance Forms	
	●			E-101	Electrical Lighting Plan	
		●		E-101A	Electrical Emergency Egress Plan	
	●	●		E-201	Electrical Power Plan	
	●	●	●	E-401	Electrical One Line Diagram and Panel Schedules	
				Plumbing		
				P-001	General Notes & Fixture Schedule	
				P-002	Plumbing Specifications	
	●			P-100	Plumbing Demolition Floor Plan	
	●	●		P-101	Plumbing Floor Plan	
	●	●		P-201	Plumbing Roof Plan	
	●	●		P-301	Plumbing Details	
		●		SH-0	Storage Shelving Title Sheet	
		●		SH-1	Storage Shelving Details	
		●		SH-2	Steel Storage Shelving Details	
		●		SH-3	Storage Shelving Additional Layouts	

MALL ZOOM-IN PLAN:



LANDLORD NOTE:
A COPY OF THE LANDLORD-APPROVED DRAWINGS MUST BE KEPT ON SITE AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BRING A FULL-SIZE HARD COPY OF THE LANDLORD-APPROVED DRAWINGS TO THE PRE-CONSTRUCTION MEETING WITH THE OPERATIONS DIRECTOR.

COORDINATE ALL WORK IN ADVANCE WITH MALL RULES & REGULATIONS FOR TENANT CONSTRUCTION. CONTACT MALL OPERATIONS DIRECTOR TO SET UP A PRE-CONSTRUCTION MEETING.

TENANT, TENANT'S DESIGN TEAM & TENANT'S CONTRACTOR SHALL FIELD VERIFY ALL FIELD CONDITIONS PRIOR TO THE START OF ANY CONSTRUCTION. BE ADVISED THAT ALL CHANGES AND MODIFICATIONS TO THE LANDLORD'S APPROVED DRAWINGS SHALL BE RESUBMITTED TO LANDLORD FOR RE-APPROVAL. ANY CONSTRUCTION COMPLETED WITHOUT LANDLORD APPROVAL SHALL BE CORRECTED AS APPROVED BY LANDLORD AT TENANT'S EXPENSE.

ENSURE ALL LOCAL PERMITS AND APPROVALS ARE MET (I.E., BUILDING, ZONING, ELECTRICAL, ETC.) PRIOR TO WORK COMMENCEMENT.

LANDLORD'S APPROVAL CANNOT AND DOES NOT SUPERSEDE TENANT'S REQUIREMENT TO COMPLY WITH THE LEASE AND ALL APPLICABLE GOVERNING AUTHORITIES.

***DISTANCE TO RESTROOM UNDER 300' PER CODE REQUIREMENTS.**

PORTFOLIO REFERENCE ONLY

mcgarchitecture.com

CLEVELAND
DENVER
GLENDORA
IRVINE
ORLANDO
PHOENIX
SAN FRANCISCO

Seal:

A Project for:

JD SPORTS #1425
LAS AMERICAS PREMIUM OUTLETS
4155 CAMINO DE LA PLAZA SPACE 0448A
SAN DIEGO, CA 92173

PORTFOLIO REFERENCE ONLY

Client:
JD SPORTS

3308 N. MITTHOEFFER ROAD
INDIANAPOLIS, IN 46235

FRONT COVER

Sheet #:
A00.0

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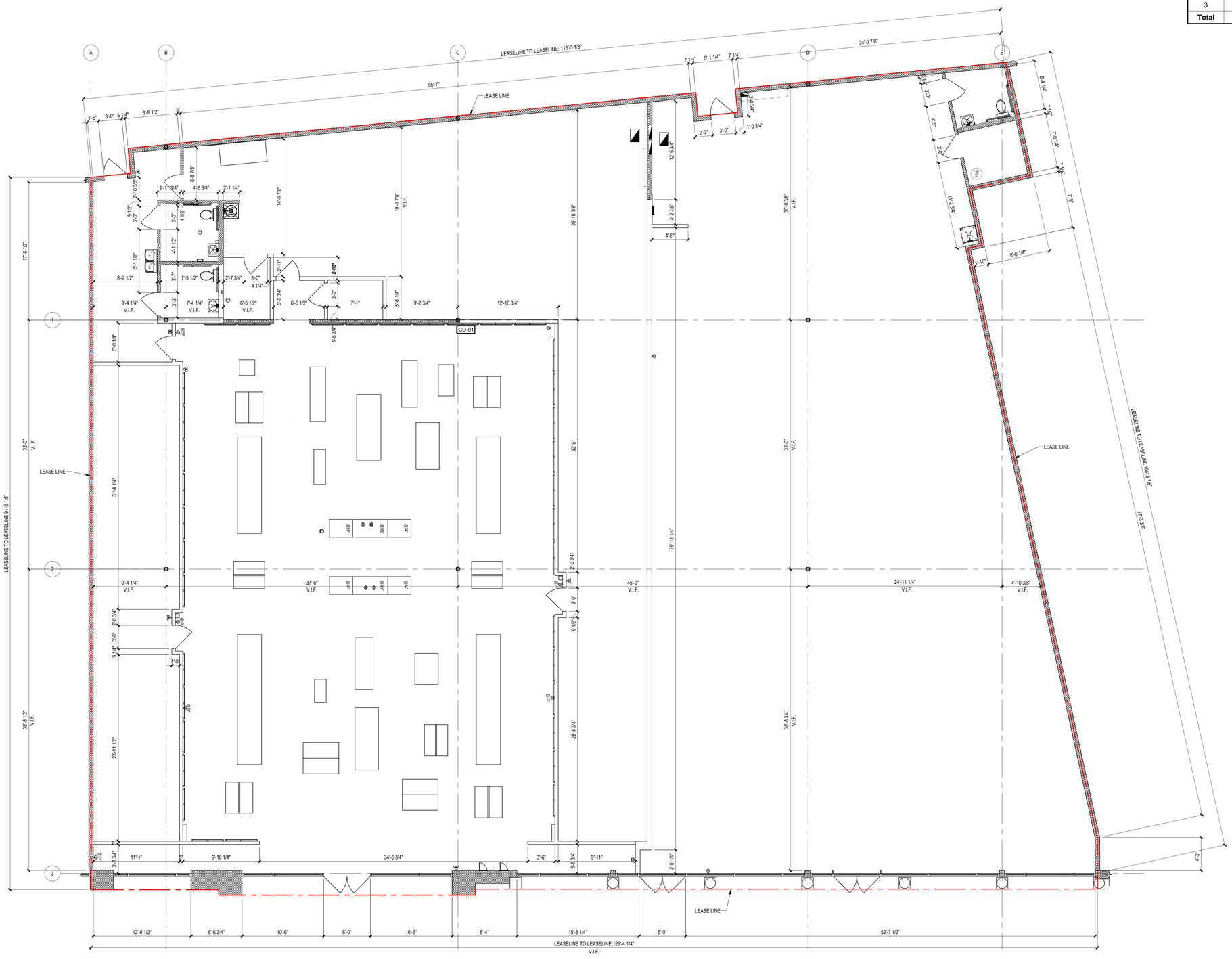
GROSS AREAS	
B	0 sqft
GF	12139 sqft
2	0 sqft
3	0 sqft
Total	12139 sqft



LANDLORD NOTE:
TEMPORARY WINDOW GRAPHICS MUST BE INSTALLED PRIOR TO COMMENCING WORK. SUBMIT GRAPHICS FOR LL APPROVAL.

GENERAL NOTE:
GC TO VERIFY ALL GRIDLINE AND OVERALL DIMENSIONS. GC TO ASSESS ALL EXISTING CONDITIONS AND COORDINATE ANY DISCREPENCIES WITH THE ARCHITECT DURING FIRST WEEK OF CONSTRUCTION.

1 DEMISE PLAN
SCALE: 3/16" = 1'-0"

NORTH

mcgarchitecture.com

CLEVELAND
DENVER
GLENDORA
IRVINE
ORLANDO
PHOENIX
SAN FRANCISCO

Seal:

A Project for:

JD SPORTS #1425
LAS AMERICAS PREMIUM OUTLETS

4155 CAMINO DE LA PLAZA SPACE 0448A
SAN DIEGO, CA 92173

PORTFOLIO REFERENCE ONLY

Client:
JD SPORTS

3308 N. MITTHOEFFER ROAD
INDIANAPOLIS, IN 46235

DEMISE

Sheet #:
A00.1

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RESPONSIBILITY SCHEDULE

NOTES:
1. GC TO VERIFY ALL EXISTING CONDITIONS IN FIELD PRIOR TO STARTING CONSTRUCTION.
2. GC SHALL REVIEW THE DRAWINGS IN THEIR ENTIRETY TO DETERMINE PROJECT SCOPE.

	EXISTING (E)	NOT APPLICABLE (N/A)	FURNISH/ INSTALL LANDLORD (LL)	FURNISH/ INSTALL OWNER / TENANT (O)	FURNISH/ INSTALL GENERAL CONTRACTOR (GC)	REMARKS
GENERAL	E	N/A	LL	O	GC	
BUILDING PERMIT / FEES				●		
INSPECTIONS					●	
INSURANCE					●	
CERTIFICATE OF OCCUPANCY					●	
PROFESSIONAL CLEANING					●	REQUIRED PRE-HANDOVER AND PRE-STORE OPENING
RUBBISH REMOVAL					●	DUMPSTER PLACEMENT TO BE COORDINATED W / LANDLORD. 2 DUMPSTER SWAPS W/O HANDOVER
TEMPORARY UTILITIES				●		GC TO COORDINATE REQUIRED TEMP. UTILITIES
CONSTRUCTION BARRICADE					● ●	
BARRICADE OR WINDOW GRAPHICS				● ●		OWNER PROVIDED / OWNER INSTALLED
FLOOR LEVELING					● ●	V.I.F. AND COORDINATE WITH PROJECT MANAGER. PROVIDE FINDINGS WITHIN 48 HOURS POST DEMO OF FLOORING.
SITE WORK	E	N/A	LL	O	GC	
SELECTIVE DEMOLITION OF PARTITION WALLS & FINISHED CEILING					● ●	AS REQUIRED FOR NEW WORK - REFER TO PLANS
SELECTIVE DEMOLITION OF EXISTING LIGHTING AND ELECTRICAL					● ●	AS REQUIRED FOR NEW WORK - REFER TO PLANS
SELECTIVE DEMOLITION OF EXISTING HVAC AND DUCT WORK					● ●	AS REQUIRED FOR NEW WORK - REFER TO PLANS
CONCRETE	E	N/A	LL	O	GC	
CONCRETE SLAB	●					GC TO VERIFY SLAB CONDITION
CUT / PATCH / CORE					● ●	AS REQUIRED FOR NEW WORK - GC TO X-RAY SLAB AS REQUIRED. XRAY REPORT TO BE SENT TO JD PM.
CEMENTITIOUS OVERLAY					● ●	
METALS	E	N/A	LL	O	GC	
METAL STUDS					● ●	
UNISTRUT					● ●	FIELD VERIFY REQUIREMENTS
ACM PANELS WITH GIBO PROT (ADS 1)				●		GC TO PROVIDE SEALS/EDGES AS REQ'D
POWDER COATED BAKED METAL (MT. 3)				●		GC TO PROVIDE SEALS/EDGES AS REQ'D
FABRICATED SHEET EXTERIOR					● ●	GC TO COORDINATE WITH ELEVATION VENDOR ABOUT OVERALL SIZE
WOOD & PLASTIC	E	N/A	LL	O	GC	
PERIMETER WALL PANEL FIXTURES				●		COORDINATE W/ FIXTURE VENDOR. BLOCKING AS REQ'D BY GC.
FLOOSE FLOOR FIXTURES				●		COORDINATE W/ FIXTURE VENDOR
CASHWRAP				●		COORDINATE W/ FIXTURE VENDOR
FITTING ROOM BENCH				●		PROVIDED BY FIXTURE VENDOR
CONCEALED BLOCKING					● ●	METAL STRAPPING/FIRE RATED BLOCKING ONLY
WALL-MOUNT SHELVING - RECEIVING DESK & MANAGER'S DESK					● ●	
MASONITE				● ●		VENDOR TO SUPPLY & INSTALL.
THERMAL & MOISTURE PROTECTION	E	N/A	LL	O	GC	
SEALANTS / CAULKING	●				● ●	
WATERPROOFING MEMBRANE		●				
FIREPROOFING / INSULATION / FIRE CAULK	●				● ●	PATCH & REPAIR AS NEEDED. PROVIDE FIREPROOFING AT ALL RATED WALL CONSTRUCTION WHERE INDICATED ON PLANS.
FIRE STOPPING	●				●	GC TO MAINTAIN EXISTING FIRE RATING PER CODE & MEET LANDLORD'S CRITERIA
ROOFING / ROOF REPAIR					● ●	PATCH & REPAIR WORK. GC TO USE LANDLORD'S REQ. VENDOR IF APPLICABLE
DOOR & WINDOWS	E	N/A	LL	O	GC	
HOLLOW METAL DOORS AND FRAMES					● ●	
DOOR HARDWARE					● ●	
ENTIRE SHOPFRONT GLASS				● ●		HOLLOW GLASS 10'-0" SUPPLIED AND INSTALLED BY OWNER'S VENDOR, ALUMATEC
EXISTING ENTRY DOORS	E					GC TO VERIFY HARDWARE IS IN WORKING ORDER. REPLACE AS NEEDED.
LOCK CORES				●		OWNER SUPPLIED & GC TO INSTALL AND PROVIDE I/CORE HOUSINGS WITH SPECIFIC CAM WHERE NEEDED.
FITTING ROOM DOOR				●		DOOR AND HINGE PROVIDED BY THE VENDOR. GC TO PROVIDE JAMB AND HEADER. GC TO INSTALL.
FINISHES	E	N/A	LL	O	GC	
TENANT SEPARATION GYP. BD.	●				●	GC TO PATCH EXISTING AS REQUIRED
TENANT PARTITION GYP. BD.	●				● ●	
WALL BASE					● ●	REFER TO FINISH SCHEDULE
PAINT					● ●	REFER TO FINISH SCHEDULE
RUBBER BASE					● ●	
VT				●		GC TO COORDINATE WITH PM ON DYE LOT PLACEMENT
ACT	●				● ●	PROVIDE AS REQUIRED FOR NEW WORK - REFER TO PLANS
WALK - OFF MAT					● ●	
CERAMIC FLOOR TILES				●		REFER TO FINISH SCHEDULE
SEALED CONCRETE					● ●	
ACOUSTIC INSULATION ACOUSTIC SEALANT					● ●	
WALL GRAPHIC				● ●		GC TO PREP WALL AS REQ'D AND COORDINATE WITH GRAPHICS VENDOR
BRICK SLIP VINYL				● ●		GC TO PREP WALL AS REQ'D AND COORDINATE WITH GRAPHICS VENDOR. GC TO FURNISH SEMI GLOSS PAINT TO MATCH EXISTING WALL. AREA MUST BE PAINTED (10) DAYS PRIOR. REFER TO FINISHES FOR PREP INSTRUCTIONS.
WALL FLOORING AT STOREFRONT	●				● ●	PATCH / REPAIR AS REQUIRED. COORDINATE WITH LL ON MILL TILES.
CATEGORY CONCRETE SIDEWALK AT STOREFRONT	●					LL TO PATCH, REPAIR AS REQUIRED
TRANSITION STRIPS / REDUCER STRIPS					● ●	
ICE					● ●	GC TO PROVIDE FOR DESIGN / EXISTING WATER FOUNTAINS WHERE REQUIRED
OFFICE CARPET					● ●	REFER TO FINISH SCHEDULE
SPECIALTIES	E	N/A	LL	O	GC	
STORE FRONT SIGNS				● ●		GC TO COORDINATE & PROVIDE ELECTRICAL AS REQ'D
SIGN BLOCKING AND ELECTRICAL CONNECTION					● ●	GC TO COORDINATE W / VENDOR SHOP DRAWINGS
RE-CLAD STOREFRONT SYSTEM, GLAZING AND ENTRY DOORS					● ●	V.I.F. EX. CONDITIONS & PROVIDE SHOP DRAWINGS FROM REVIEW / APPROVAL
FIRE EXTINGUISHER					● ●	GC TO VERIFY FINAL QUANTITY & LOCATION W / FIRE MARSHAL
RESTROOM ACCESSORIES					● ●	
STOCK ROOM SHELVING (FIXED)				● ●		GC TO INSTALL AS PER VENDOR REQUIREMENTS. PRICE AS AN ADD/ALT.. MOBILE MEDIA TO INSTALL STATIC AND MOBILE
STOCK ROOM SHELVING (MOBILE)				● ●		GC TO COORDINATE INSTALL WITH VENDOR AND PROJECT MANAGER
APPAREL RACKING				●		● GC TO INSTALL AS PER VENDOR REQUIREMENTS
INTERIOR DOOR SIGNAGE (AS REQ'D BY CODE)					● ●	
INTERIOR DOOR SIGNAGE (VINYL)				● ●		VENDOR PROVIDES AND INSTALLS
INTERIOR SIGNAGE (HANGING- RPS- TEXFLEX					●	●
DIGITAL SCREENS & DIGITAL DISPLAYS				● ●		GC TO PROVIDE BLOCKING, POWER AND DATA AS REQ'D. UNISTRUT/ ALL THREAD/ BRACKET INSTALLATION.
STOREFRONT DIGITAL SCREEN. LED SCREEN FOR BACKWRAP				●		● CASHWRAP / BACKWRAP GC MUST INSTALL PER ESIGN CRITERIA
LIGHT BOXES				●		● GC TO PROVIDE BLOCKING & POWER AS REQ'D. GC TO INSTALL OSM LIGHT BOXES.
STORE SAFE				●		● PM TO COORDIANTE NEW AND/OR RELOCATING W REQ'D POWER AND DATA
FITTING ROOM HOOK				●		●
FITTING ROOM BARS				●		● GC TO PROVIDE BLOCKING AS REQ'D
FITTING ROOM NUMBERS				●		●
FITTING ROOM MIRROR (NON-LIT)				●		● GC TO PROVIDE BLOCKING AS REQ'D. PROVIDE BLOCKING FOR BENCH, AND WING WALLS SUPPORTING FITTING ROOM MODULAR SYSTEM. PROVIDE BLOCKING FOR BENCH, AND WING WALLS SUPPORTING THE FITTING ROOM.
4-WALL MIRRORS				●		●
COLUMN MIRRORS					● ●	
COUNTERTOPS					● ●	STAFF ROOM/AREA AND MANAGER'S OFFICE. REFER TO SCHEDULE FOR FINISHES
STAFF ROOM FRIDGE AND MICROWAVE					● ●	BLACK COLORED APPLIANCES
STAFF ROOM TABLE AND CHAIRS					● ●	
UPPER SHELVES IN STAFF AREA		●				
MANAGER OFFICE SHELVES					● ●	AS PER PLAN
LOCKERS IN STAFF ROOM					● ●	GC TO COORDINATE LOCATION W/ PROJECT MANAGERS. REFER TO OWNER'S SPEC.
COAT HOOKS IN STAFF ROOM					● ●	GC TO COORDINATE LOCATION W/ PROJECT MANAGERS. REFER TO OWNER'S SPEC.
EQUIPMENT	E	N/A	LL	O	GC	
AUDIO HARDWARE				●	●	
AUDIO SYSTEM				●	●	GC TO PROVIDE CONDUIT (ONLY IF REQ'D BY CODE). VENDOR TO PROVIDE SPEAKER WIRE.
CASH REGISTER / COMPUTER SYSTEM				●	●	LOW - VOLTAGE WIRING BY VENDOR
TELEPHONE SYSTEM				●	●	LOW - VOLTAGE WIRING BY VENDOR
AUTECH SECURITY SYSTEM				●	●	WIRING INSTALLED BY VENDOR. CONDUIT (ONLY IF REQ'D BY CODE) FURNISHED & INSTALLED BY E.C.
EAS DEVICES				●	●	WIRING INSTALLED BY VENDOR. CONDUIT (ONLY IF REQ'D BY CODE) FURNISHED & INSTALLED BY E.C.
COUNTWISE TRAFFIC COUNTER SYSTEM				●	●	WIRING INSTALLED BY VENDOR. CONDUIT (ONLY IF REQ'D BY CODE) FURNISHED & INSTALLED BY E.C.
SOFTWARE ORDER SCREEN (EAS) POLES				●		● WIRING INSTALLED BY VENDOR. CONDUIT FURNISHED & INSTALLED BY E.C. POLES BY G.C. TV MOUNTS BY G.C.
DUMBWAITER UNIT(S)				●	●	GC TO COORDINATE WITH VENDOR
MECHANICAL	E	N/A	LL	O	GC	
HVAC UNITS		●	●			REFER TO MECHANICAL DRAWINGS
PLUMBING	●				● ●	REFER TO PLUMBING DRAWINGS
FIRE PROTECTION	●				● ●	REQUEST SUBMITTAL
ELECTRICAL	E	N/A	LL	O	GC	
LIGHT FIXTURE	●			●		● GC TO COORDINATE W / REQUIRED VENDOR
LAMPS	●					● RE-LAMP AS REQ'D
ELECTRICAL WORK					● ●	REFER TO ELECTRICAL DRAWINGS
ELECTRICAL PANEL(S)	●				● ●	REFER TO ELECTRICAL DRAWINGS
HIGH VOLTAGE CONDUIT					● ●	REFER TO ELECTRICAL DRAWINGS
LOW VOLTAGE CONDUIT					● ●	GC TO PROVIDE ALL CONDUIT (ONLY IF REQ'D BY 2023 NATIONAL ELECTRICAL CODE) W / PULL STRINGS.
DATA AND LOW VOLTAGE WIRING				● ●		BY VENDOR U.N.O. COORDINATE WITH ITEMS LISTED IN "EQUIPMENT"
LOW VOLTAGE PULL STRING IN CONDUIT					● ●	
FIRE / SMOKE ALARM - REQUEST SUBMITTAL	●				● ●	
POWERED RAIL					● ●	
CCTV WIRING				● ●		CABLING FOR CCTV BY OWNER VENDOR
CCTV HARDWARE				● ●		TERMINATION AND CAMERA INSTALL BY VENDOR
DOORBELL					● ●	REFER TO ELECTRICAL PLANS FOR SPEC. EXISTING DB TO BE REPAIRED OR REPLACED IF NOT WORKING.
UNISTRUT FOR EAS					● ●	BRACKETS PREFERRED
CLINTON POLES, EAS, CAMERAS, MOTION SENSORS & TRAFFIC COUNTERS				● ●	●	EAS CLINTON POLES INSTALLED BY VENDOR, GC INSTALLS CLINTON POLES FOR CCTV AND MOTION DEVICES

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GENERAL COMMENTS:

- TENANT, TENANT'S DESIGN TEAM, AND TENANT'S CONTRACTORS SHALL FIELD VERIFY ALL FIELD CONDITIONS PRIOR TO THE START OF ANY CONSTRUCTION. BE ADVISED THAT ALL CHANGES AND MODIFICATION TO THE LANDLORD'S APPROVED DRAWINGS SHALL BE RESUBMITTED TO LANDLORD FOR RE-APPROVAL. ANY CONSTRUCTION COMPLETED WITHOUT LANDLORD APPROVAL SHALL BE CORRECTED AS APPROVED BY LANDLORD AT TENANT'S EXPENSE.
- THESE PLANS HAVE BEEN SUBMITTED FOR OUR REVIEW AND APPROVAL IN ACCORDANCE WITH THE TERMS OF YOUR LEASE AGREEMENT FOR THE ABOVE REFERENCED SPACE. LANDLORD HEREBY APPROVES, OR APPROVES AS NOTED, SAID TENANT IMPROVEMENT PLANS FOR SAID PURPOSES. SUCH APPROVAL, OR APPROVAL AS NOTED, DOES NOT CONSTITUTE THE ASSUMPTION ON OUR PART OF ANY RESPONSIBILITY FOR THE ACCURACY OR SUFFICIENCY OF SUCH PLANS, OR THE COMPLIANCE THEREOF WITH ANY GOVERNMENTAL OR OTHER REQUIREMENTS, THE RESPONSIBILITY FOR ALL OF WHICH BEING SOLELY YOURS. IN THE EVENT OF QUESTIONS OR CONFLICTS REGARDING LANDLORD'S AND TENANT'S WORK AS DEFINED WITHIN THE TENANT'S PLANS, THE LEASE AGREEMENT WILL PREVAIL.
- CONSTRUCTION SET OF PLANS REVIEWED AND APPROVED BY LANDLORD'S TENANT MANAGER ALONG WITH THE LANDLORD PLAN REVIEW LETTER MUST BE PRESENT ON THE JOB SITE AND BE ACCOMPANIED BY PLANS APPROVED FOR BUILDING PERMIT. ANY PROPOSED DEVIATION FROM THE LANDLORD APPROVED PLANS MUST BE RESUBMITTED BY THE TENANT TO THE LANDLORD FOR RE-APPROVAL PRIOR TO ANY CONSTRUCTION CHANGES TAKING PLACE IN THE FIELD.
- TENANT'S CONTRACTOR IS REQUIRED TO CHECK IN WITH THE PROPERTY MANAGEMENT OFFICE BEFORE COMMENCING ANY WORK WITHIN TENANT'S SPACE. TENANT'S CONTRACTOR SHALL CONFORM TO ALL PROPERTY RULES AND REGULATIONS AS PERTAIN TO CONSTRUCTION OF ANY TYPE THAT WILL BE CONDUCTED IN THE PROPERTY. TENANT'S CONTRACTOR SHALL SUBMIT PROPER PROOF OF INSURANCE, PERMITS, AND/OR LICENSE VERIFICATION AS REQUIRED IN THE CONSTRUCTION RULES AND REGULATIONS. ALL WORK PERFORMED BY TENANT, ITS VENDORS AND ITS GENERAL CONTRACTOR MUST BE COMPLETED TO LANDLORD'S SATISFACTION. TENANT'S GC IS RESPONSIBLE TO COMPLY WITH ALL RULES AND REGULATIONS AND AS POSTED ON WWW.SIMON.COM.
- CONTACT THE TENANT MANAGER FOR CONSTRUCTION BARRICADE REQUIREMENTS. IF A BARRICADE IS BEING UTILIZED, THE BARRICADE GRAPHICS MUST BE SUBMITTED TO AND APPROVED BY TENANT MANAGER PRIOR TO INSTALLATION.
- IF A BARRICADE IS NOT REQUIRED AS A RESULT OF TENANT STOREFRONT WORK, THE LANDLORD REQUIRES TENANT'S INSTALLATION OF TEMPORARY LIFESTYLE VINYL GRAPHICS ON STOREFRONT WINDOWS, DOORS AND TRANSOM DURING CONSTRUCTION. PROPOSED TEMPORARY STOREFRONT GRAPHICS MUST BE SUBMITTED TO THE TENANT MANAGER FOR LANDLORD APPROVAL BEFORE INSTALLATION. LANDLORD DOES NOT ALLOW INSTALLATION OF ANY PLASTIC, FILM OR PAPER BEHIND OR IN FRONT OF STOREFRONT GLASS WHILE TENANT'S CONSTRUCTION IS UNDERWAY.
- ANY DAMAGE TO LANDLORD'S PROPERTY DURING TENANT DEMOLITION OR CONSTRUCTION (COMMON AREA HARDSCAPE, BULKHEAD, NEUTRAL PIERS, ETC.) WILL BE REPAIRED AT THE TENANT'S EXPENSE PER LANDLORD SPECIFICATIONS.
- ANY LANDLORD EQUIPMENT, COMPONENT AND/OR SERVICE FEEDING OTHER TENANT(S) THAT IS EXISTING IN THE SPACE MUST REMAIN VISIBLE AND ACCESSIBLE TO THE LANDLORD. TENANT SHALL INSTALL ACCESS PANELS AS REQUIRED TO MAINTAIN ACCESS. ACCESS PANELS SHALL BE LABELED TO PROPERLY IDENTIFY SYSTEM, COORDINATE WITH OPERATIONS DIRECTOR.
- ALL LANDLORD COMMENTS ON THIS SET OF DRAWINGS SHALL APPLY TO THE ENTIRE DOCUMENT SET, EVEN IF NOT REPEATED ON EVERY SHEET IN DRAWING SET.
- TENANT'S CONTRACTOR MUST COORDINATE IN ADVANCE THE DELIVERY TIME AND METHOD OF DELIVERY OF EQUIPMENT, SUPPLIES, CONSTRUCTION MATERIALS AND CASEWORK WITH LANDLORD'S MANAGEMENT STAFF. THIS INCLUDES DELIVERY DATES AND TIMING. REPAIRS TO LANDLORD'S BUILDING, EXTERIOR LANDSCAPE, HARDSCAPE, OR ANY OTHER SURFACES DUE TO THE TENANT'S STORE CONSTRUCTION ARE THE RESPONSIBILITY OF TENANT. TENANT'S CONSTRUCTION WORK IS TO BE PERFORMED ONLY INSIDE THE DEMISED SPACE.
- TENANT'S WITH INTERNALLY GENERATED ODORS OR OTHER CONTAMINATES (FOOD TENANTS, HAIR AND NAIL SALONS, ETC.) ARE REQUIRED TO INSTALL AND MAINTAIN AN APPROPRIATE EXHAUST AIR SYSTEM TO MITIGATE ANY ODORS MIGRATING TO ADJACENT TENANTS AND TO THE EXTERIOR OF THE BUILDING. TENANTS MUST PROPERLY SEAL ANY PENETRATIONS THROUGH, AND/OR AT THE TOP AND BOTTOM OF THE DEMISING WALLS. TENANT WILL BE RESPONSIBLE TO REMEDIATE ANY PROBLEMS OR COMPLAINTS FROM ADJACENT TENANTS THAT MAY OCCUR IN THE FUTURE.
- ALL UTILITIES MUST BE TRANSFERRED TO TENANT'S NAME PRIOR TO POSSESSION OR AT TIME OF TURNOVER, WHICHEVER IS EARLIER, UNLESS THE PROPERTY IS MASTER METERED.
- IF TENANT INTENDS TO INSTALL A SATELLITE DISH ON THE ROOF. TENANT MUST ADHERE TO THE CENTER'S RULES CONCERNING IT. REFER TO THE CONSTRUCTION RULES AND REGULATIONS FOR SPECIFICS. ANY QUESTIONS RELATIVE TO SATELLITE DISHES SHOULD BE DIRECTED TO THE ONSITE OPERATIONS DIRECTOR.
- ALTERATIONS OR ADDITIONS OF WALLS, CEILING AND LIGHTING BY TENANT REQUIRES ADDITIONS OR MODIFICATION TO EXISTING ELECTRICAL & HVAC DISTRIBUTION, FIRE SPRINKLER & ALARM SYSTEMS, WHICH ARE THE SOLE RESPONSIBILITY OF THE TENANT. TENANT IS RESPONSIBLE FOR ANY CODE REQUIRED CHANGES OR UPGRADES.
- SIMON PREMIUM OUTLETS HAS ESTABLISHED A STOREFRONT WINDOW TINTING POLICY - IF WINDOW FILM IS DESIRED; ALL TENANTS MUST USE THE SPECIFIED WINDOW TINT AS FOLLOWS:
  "ARMORCOAT"
  2 MIL. CLEAR (STANDARD)
  4 MIL. CLEAR (SECURITY)
  7 MIL.-14 MIL. CLEAR (SECURITY PLUS)
- THIS CLEAR FILM REJECTS APPROXIMATELY 99% OF UV BUT PROVIDES NO PROTECTION FROM THE HEAT.
- ANOTHER ALTERNATIVE IS PANORAMA HILITE 70 WHICH IS CLEAR ON THE GLASS BUT REJECTS 55% OF SOLAR ENERGY INCLUDING 95% OF NEAR INFRARED (HEAT FROM THE SUN). IT IS AN ADVANCED FILM. INTERIOR INSTALLATION AND CLEAR FILM ONLY WILL BE PERMITTED.
- TENANT IS REQUIRED TO PROVIDE LANDLORD WITH AS-BUILT FINAL TENANT CONSTRUCTION DRAWINGS UPON COMPLETION OF THE STORE CONSTRUCTION, VIA PDF.

LANDLORD COMMENTS:

THE RE-USE OF ANY EXISTING CONSTRUCTION, FINISHES, EQUIPMENT, OR ELECTRICAL, PLUMBING OR HVAC SYSTEMS CURRENTLY IN THE SPACE IS CONDITIONAL UPON IT BEING APPROPRIATE FOR RE-USE. ANY EXISTING CONDITION OR EQUIPMENT TO BE RE-USED MUST BE RESTORED TO LIKE NEW CONDITIONS. THE LANDLORD MAKES NO WARRANTY ON THE RE-USE OF ANY EXISTING CONDITION IN THE SPACE.

TENANT IS RESPONSIBLE TO INSPECT, CLEAN AND SERVICE ALL MECHANICAL EQUIPMENT ASSOCIATED WITH THIS SPACE AND REPAIR OR REPLACE AS NEEDED. PROVIDE COPY OF MAINTENANCE REPORT AND TEST & BALANCE REPORT TO MALL OPERATIONS AT COMPLETION OF PROJECT.

INSPECT & TEST ALL EXISTING SANITARY SEWER LINES AND WATER SUPPLY LINES. REPAIR AND / OR REPLACE AS REQUIRED.

FEASIBILITY APPROVAL

Department	Initial	Date	Comments
R&M	RM Team	05.07.25	Feedback received. Drawing approved at SD issue.
SLT	SLT	05.22.25	Feedback received. Drawing approved at SD issue.
Design	TW	05.23.25	SD Issue
Roller Racking	TW	05.23.25	68% Standard Racking, 32% Roller Racking. No roller racking used.

STORE COMPONENT	FURNISHED BY
YELLOW ILLUMINATED BOXES, SIGN, BACKWRAP/ STOREFRONT SIGNS, LIGHT BOXES	TDI
STOREFRONT SIGN, NON-ILLUMINATED STOREFRONT BLADE, AND BACKWRAP SIGN	TDI
STOREFRONT METALS- MT-1/ACM	
MOBILE AND FIXED SHELVING	MOBILE MEDIA
STATIC SHELVING	
DOORS/HARDWARE	GC
SPEAKERS (LAYOUT)	MOOD MEDIA
LIGHTING FIXTURES	VILLA
L-METAL TRIM FOR DIGITAL SCREEN AT BACKWRAP	TDI
FITTING ROOM DOOR AND HINGES, PANELS, UPRIGHTS, HARDWARE, CASHWRAP AND BACKWRAP	TRIAD
GLAZING CHANNEL	

2 SUBMITTAL LOG
SCALE: NTS

1. CASHWRAP & BACKWRAP
2. WALL PANEL FIXTURES
3. FLOOR FINISHES
4. LIGHT BOXES
5. WALL COVERING
6. OFFICE DESK

NOTE: GC TO COORDINATE INSTALLATION OF ITEMS LISTED ABOVE WITH OWNER PROVIDED MANUALS AND SHOP DRAWINGS.

1 GC INSTALLED SPECIALTY ITEMS
SCALE: NTS

mcgarchitecture.com
CLEVELAND
DENVER
GLENDORA
IRVINE
ORLANDO
PHOENIX
SAN FRANCISCO

Seal:

A Project for:

JD SPORTS #1425
LAS AMERICAS PREMIUM OUTLETS

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PORTFOLIO REFERENCE ONLY

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SCHEDULES

Sheet #:
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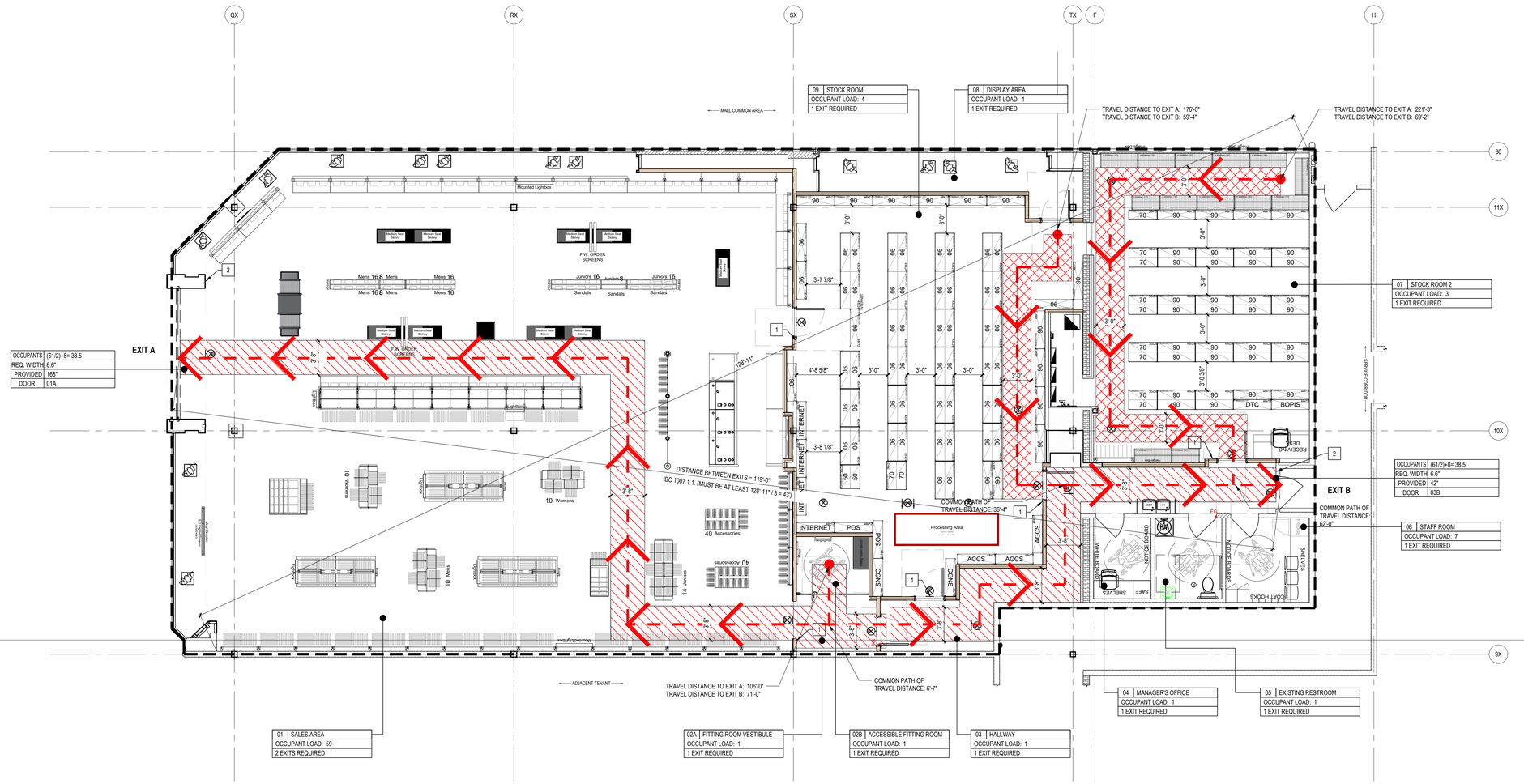

18 CODE PLAN

SCALE: 3/16" = 1'-0"

SYMBOL	DESCRIPTION
	PATH OF TRAVEL
	COMMON PATH OF TRAVEL
44" CLR.	44" CLEAR PATH OF TRAVEL (SALES AREA)
36" CLR.	36" CLEAR PATH OF TRAVEL (STOCK ROOM)
	ILLUMINATED EXIT SIGN WITH 6" HIGH LETTERS AND LISTED/LABELED IN ACCORDANCE WITH UL 924. REFER TO ELECTRICAL DRAWINGS
	FIRE EXTINGUISHER. TYPE 2A10BC PER IFC 906.3 . COORDINATE FINAL LOCATIONS AND QUANTITIES WITH LOCAL FIRE MARSHAL.
EM1 EM	EMERGENCY LIGHTING

17 SYMBOLS LEGEND

1 TACTILE EXIT SIGN TO SAY "EXIT ROUTE" SEE 2/A00.4 FOR MORE INFORMATION.

2 TACTILE EXIT SIGN TO SAY "EXIT" SEE 5/A00.4 FOR MORE INFORMATION.

9 KEYNOTES

DESIGN OCCUPANCY LOAD

FLOOR	USE	TOTAL S.F.	OCCUPANT LOAD FACTOR (SF/OCC)	OCCUPANT LOAD
GROUND FLOOR	SALES AREA (GROSS):	3569	60	60
	FITTING ROOM (GROSS):	120	60	2
	HALLWAY 1 (GROSS):	325	300	2
	RESTROOM (GROSS):	90	1 PER	1
	DISPLAY	210	300	1
	STOCK ROOM 1 (GROSS):	1100	300	4
	STOCK ROOM 2 (GROSS):	875	300	3
	MANAGER'S OFFICE (GROSS):	80	150	1
	STAFF AREA (GROSS):	100	15	7
GROSS LEASEABLE SPACE:	PERIMETER LEASE LINE	6469.00		81

EGRESS

DESCRIPTION	REQUIREMENT	PROPOSED
MIN. # OF EXITS PER OCCUPANT	2	2
MAX TRAVEL DISTANCE	250'-0" WITH SPRINKLER SYSTEM	221'-3" (REFER TO EGRESS PLAN)
HALLWAY WIDTH	44" MIN	44"
MIN. EGRESS WIDTH	82 OCC x 0.2 = 16.4"	168" + 42" = 210"
COMMON PATH OF TRAVEL DISTANCE	75'-0" MAX.	62'-0" (REFER TO EGRESS PLAN)

5 EGRESS DATA

2021 IBC 1024.2 - WIDTH AND CAPACITY

THE REQUIRED CAPACITY OF EXIT PASSAGEWAYS SHALL BE DETERMINED AS SPECIFIED IN SECTION 1005.1 BUT THE MINIMUM WIDTH SHALL BE NOT LESS THAN 44 INCHES, EXCEPT THAT EXIT PASSAGE WAYS SERVING AN OCCUPANT LOAD OF LESS THAN 50 SHALL BE NOT LESS THAN 36 INCHES IN WIDTH. THE MINIMUM WIDTH OR REQUIRED CAPACITY OF EXIT PASSAGEWAYS SHALL BE UNOBSTRUCTED.

MATT E. MAJEED, ARCHITECT
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Email:

A Project for:

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EMPIRE MALL

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PORTFOLIO REFERENCE ONLY

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INDIANAPOLIS, IN 46235

CODE PLAN

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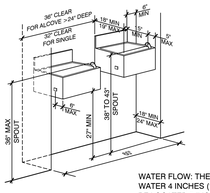


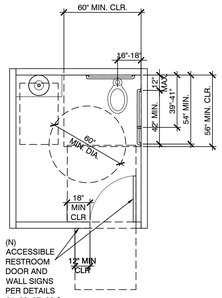
RECESSED FOUNTAINS:

1. WITHIN ALCOVES MINIMUM 18" DEEP & 32" MIN. CLR. WHEN A SINGLE FOUNTAIN IS PERMITTED.

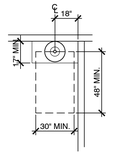
A. CONTRACTOR SHALL USE THE SIZE OF THE WATER FOUNTAIN TO BE USED TO SIZE THE ALCOVE ACCORDINGLY (COMPLYING W/MFR REQUIREMENTS & RECOMMENDATIONS) AS WELL AS COORDINATING W/THE ARCHITECT.

WATER FLOW: THE SPOUT SHALL PROVIDE A FLOW OF WATER 4 INCHES (100 mm) HIGH MINIMUM AND SHALL BE LOCATED 5 INCHES (125 mm) MAXIMUM FROM THE FRONT OF THE UNIT. THE ANGLE OF THE WATER STREAM SHALL BE MEASURED HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE UNIT. WHEN SPOUTS ARE LOCATED LESS THAN 3 INCHES (75 mm) FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 30 DEGREES MAXIMUM. WHERE SPOUTS ARE LOCATED BETWEEN 3 INCHES (76 mm) AND 5 INCHES (127 mm) MAXIMUM FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 15 DEGREES MAXIMUM.

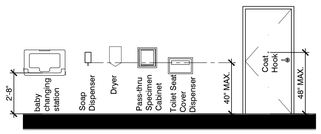
30 DRINKING FOUNTAIN
SCALE: 1/2" = 1'-0"



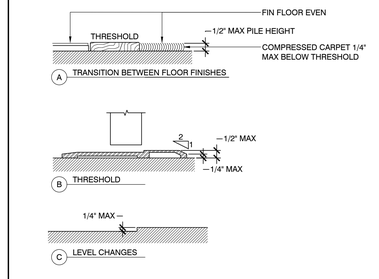
TOILET ROOM PLAN



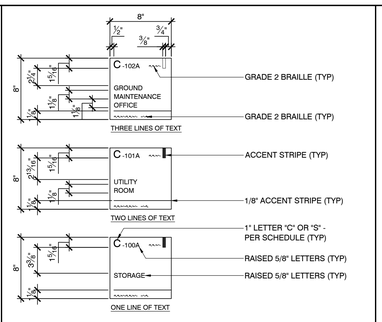
LAVATORY



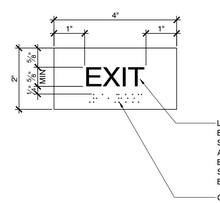
TOILET ACCESSORIES



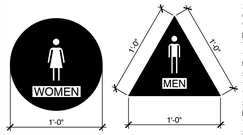
15 THRESHOLD REQUIREMENTS
SCALE: 3 = 1'-0"



10 ACCESSIBILITY SIGNAGE / ROOM IDENTIFICATION SIGN
SCALE: 1-1/2" = 1'-0"

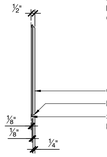


5 ADA SIGNAGE / ROOM IDENTIFICATION SIGNS
SCALE: 3 = 1'-0"



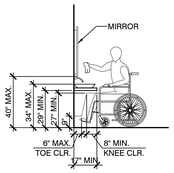
SYMBOL DESCRIPTION

ON DOORWAYS LEADING TO "MEN"/"BOYS" SANITARY FACILITIES AN EQUILATERAL TRIANGLE 1/4" THICK W/EDGE 12" LONG & A VERTEX POINTING UPWARD & ON "WOMEN"/"GIRLS" SANITARY FACILITIES A CIRCLE 1/4" THICK & 12" IN DIAMETER. THESE GEOMETRIC SYMBOLS SHALL BE CENTERED ON THE DOOR @ A HEIGHT OF 60" & THEIR COLOR & CONTRAST SHALL BE DISTINCTLY DIFFERENT FROM THE COLOR & CONTRAST OF THE DOOR.

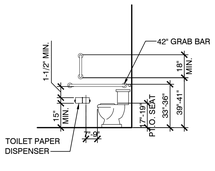


29 ACCESSIBILE SANITARY FACILITIES / RESTROOM SIGNAGE
SCALE: 1-1/2" = 1'-0"

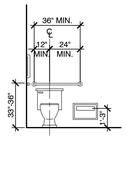
GENERAL NOTE: FOR GRAB BAR MOUNTING SEE DETAIL 16, 22 & 30/- FOR MORE INFO.



LAVATORY CLEARANCES

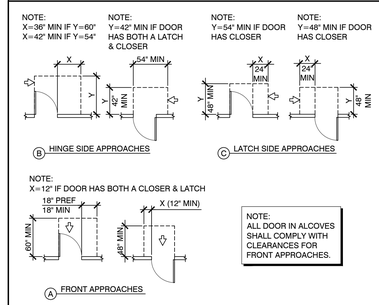


TOILET STALL CLEARANCES

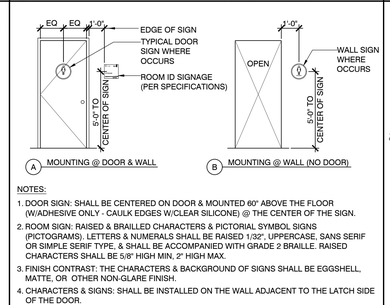


NOTE: THESE FIGURES ARE ILLUSTRATIVE ONLY AND DO NOT DELINEATE THE ONLY MEANS OF COMPLIANCE. REFER TO PLANS FOR EXACT LAYOUT OF TOILET ROOMS.

19 TOILET ROOM REQUIREMENTS
SCALE: 1/4" = 1'-0"



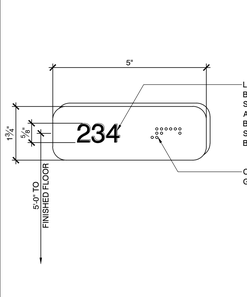
14 DOOR APPROACHES
SCALE: 1/8" = 1'-0"



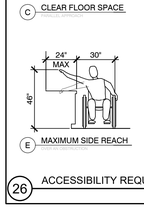
NOTES:

1. DOOR SIGN: SHALL BE CENTERED ON DOOR & MOUNTED 60" ABOVE THE FLOOR (W/ADHESIVE ONLY - CAULK EDGES W/CLEAR SILICONE) @ THE CENTER OF THE SIGN.
2. ROOM SIGN: RAISED & BRAILLED CHARACTERS & PICTORIAL SYMBOL SIGNS (PICTOGRAMS): LETTERS & NUMERALS SHALL BE RAISED 1/32", UPPERCASE, SANS SERIF OR SIMPLE SERIF TYPE, & SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE 5/8" HIGH MIN, 2" HIGH MAX.
3. FINISH CONTRAST: THE CHARACTERS & BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH.
4. CHARACTERS & SIGNS: SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR.

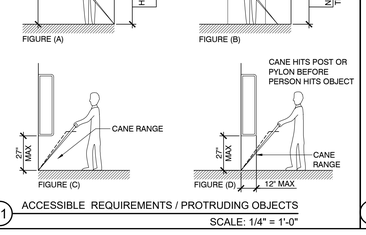
11 ACCESSIBLE SANITARY FACILITIES / MOUNTING HEIGHT SIGNAGE
SCALE: 1/4" = 1'-0"



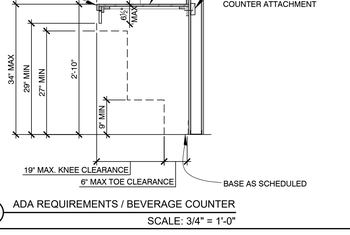
4 ACCESSIBILITY SIGNAGE / ROOM IDENTIFICATION SIGN
SCALE: 3 = 1'-0"



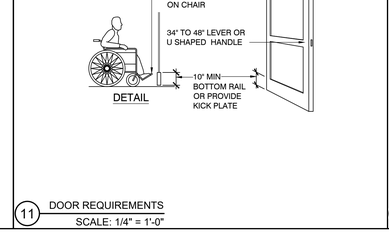
28 ACCESSIBLE SANITARY FACILIITES / RESTOOM SIGNAGE
SCALE: 3 = 1'-0"



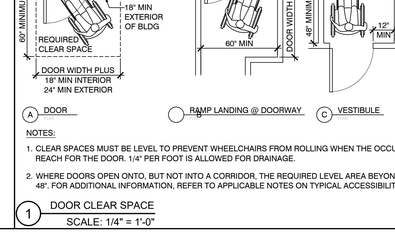
A GRAB BAR @ WALL
ISOMETRIC



B GRAB BAR @ WALL
ISOMETRIC



13 ENTRANCE SIGN DETAIL
SCALE: 1-1/2" = 1'-0"



LETTERS AND NUMBERS:

1. WIDTH OF UPPERCASE "O" 60% MIN. & 110 MAX. HEIGHT OF THE UPPERCASE "I".
2. CHARACTER HEIGHT 5/8" MIN. & 2" MAX.; MEASURED VERTICALLY FROM BASELINE OF CHARACTER
3. CONTRAST CHARACTERS & SYMBOLS WITH BACKGROUND.
4. SANS SERIF UPPERCASE CHARACTERS.

SIGNS / PICTOGRAMS

5. PICTOGRAMS/PICTORIAL SYMBOL SIGNS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM FIELD. THE PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6" MIN.
6. CHARACTERS & BACKGROUNDS SHALL BE OF NON-GLARE CONTRASTING COLORS.
7. SIGNS / PICTOGRAMS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR LEADING TO THE ROOM OR SPACE THEY DESCRIBE AND AT 48" MIN. FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER & 60" MAX. TO THE BASELINE OF THE HIGHEST TACTILE CHARACTER & HAVE A CLEAR FLOOR SPACE OF 18" X 18" MIN.
8. VERTICAL CLEARANCE @ SUSPENDED SIGNS W/MIN HEADROOM OF 80" REQUIRE MIN 3" CHARACTER HEIGHT MEASURED BY USING UPPERCASE "X" CHARACTERS & NUMBERS SHALL BE SIZED ACCORDING TO VIEWING DISTANCE FROM WHICH READ. LOWER CASE CHARACTERS PERMITTED.

SIGN LOCATIONS:

9. ALL ACCESSIBLE ENTRANCES IDENTIFIED WITH MINIMUM OF ONE STANDARD SIGN.
10. ADDITIONAL DIRECTIONAL SIGNS ALONG ACCESSIBLE PATH OF TRAVEL ARE REQUIRED.
11. BUILDINGS REMODELED TO PROVIDE ACCESSIBLE SANITARY FACILITIES FOR PUBLIC USE SHALL HAVE INFORMATION POSTED IN THE LOBBY AS PART OF THE BUILDING DIRECTORY.

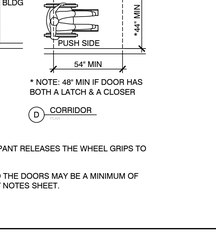
INTERNATIONAL SYMBOL OF ACCESSIBILITY:

12. STANDARD USED TO IDENTIFY ACCESSIBLE FACILITIES.
13. WHITE FIGURE ON BLUE BACKGROUND, COLOR #15090 ON FEDERAL STANDARD # 595A.
14. WHEN ENFORCING AGENCY DETERMINES, IF APPROPRIATE, SPECIAL DESIGNS AND COLORS MAY BE APPROVED.

BRAILLE:

15. USE CONTRASTED GRADE 2 SHALL COMPLY WITH **ICC A117.1.**
16. BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8" MIN. & 1/2" MAX. FROM ANY OTHER TACTILE CHARACTERS & 3/8" MIN. FROM RAISED BORDERS.

7 ACCESSIBILITY SIGNAGE / SIGNS & PICTOGRAMS
SCALE: 3/4" = 1'-0"



NOTES:

1. ACCESSIBLE ENTRANCES - ACCESSIBLE BUILDING ENTRANCES ARE REQUIRED TO BE IDENTIFIED WITH AT LEAST ONE STANDARD SIGN AND ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS (DECAL) .
2. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY IS REQUIRED TO IDENTIFY FACILITIES THAT ARE ACCESSIBLE. THE SYMBOL A WHITE FIGURE ON A BLUE BACKGROUND (COLOR NO. 15090) IN FEDERAL STANDARD 595A. WHEN IT IS DETERMINED BY THE ENFORCING AGENCY THAT SUCH SIGNS AND IDENTIFICATION PROVIDE ADEQUATE DIRECTION.

EXCEPTION:
A SPECIAL SIGN OR IDENTIFICATION WHICH COMPLEMENTS DECOR OR A UNIQUE DESIGN MAY BE APPROVED

3. BRAILLE - CONTRACTED GRADE 2 BRAILLE IS TO BE USED WHEREVER BRAILLE IS REQUIRED. DOTS ARE .01 INCH ON CENTERS IN EACH CELL WITH .02 INCH SPACE BETWEEN CELLS. DOTS ARE RAISED A MINIMUM OF 0.025 INCH ABOVE THE BACKGROUND.
4. CHARACTERS - LETTERS AND NUMBERS ON SIGNS ARE TO HAVE A WIDTH TO HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH TO HEIGHT RATIO BETWEEN 1:5 AND 1:10. WHEN RAISED OR RECESSED CHARACTERS OR SYMBOLS ARE USED THEY ARE TO BE RAISED OR RECESSED A MINIMUM 1/32 INCH AND ARE TO BE SANS SERIF TYPE. RAISED CHARACTERS ARE TO BE AT LEAST 5/8 INCH HIGH AND RECESSED CHARACTERS AND SYMBOLS ARE TO HAVE A 1/4 INCH MINIMUM STROKE WIDTH.
5. PROVIDE SIGN OVER MAIN EXIT DOOR--"THIS DOOR MUST REMAIN UNLOCKED DURING BUSINESS HOURS."
6. PROVIDE TACTILE EXIT SIGNS AT EACH GRADE LEVEL EXTERIOR EXIT DOOR BY STAIRWAY, FROM INTERIOR ROOMS OR AREAS TO A CORRIDOR OR HALLWAY THAT REQUIRES VISUAL EXIT SIGNS, AND OTHER REQUIRED LOCATIONS WITH MANDATED WORDING. **(IBC SECTIONS 1013.4)**
7. ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AND ACCESSIBLE ROUTE OF TRAVEL SHALL BE IDENTIFIED WITH A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY, AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS. **(IBC SECTION 11B-216.6)**
8. LOCATE INTERNATIONAL SYMBOL OF ACCESSIBILITY ON MAIN ENTRY.

2 SIGNAGE FOR ENTRY / EXIT
SCALE: 1/2" = 1'-0"

NOTES:

1. X SHALL BE ≤ 25 INCHES; Z SHALL BE ≥ X
2. WHEN X < 20 INCHES, THEN Y SHALL BE 44 INCHES MAXIMUM
3. WHEN X IS 20 TO 25 INCHES, THEN Y SHALL BE 44 INCHES MAXIMUM

26 ACCESSIBILITY REQUIREMENTS / REACH RANGES
SCALE: 1/4" = 1'-0"

21 ACCESSIBLE REQUIREMENTS / PROTRUDING OBJECTS
SCALE: 1/4" = 1'-0"

C GRAB BAR @ STUD WALL
SECTION

17 GRAB BAR TYPICAL ANCHORS
SCALE: 3 = 1'-0"

D GRAB BAR BACKING
ELEVATION SCALE: 1/2" = 1'-0"

16 ADA REQUIREMENTS / BEVERAGE COUNTER
SCALE: 3/4" = 1'-0"

11 DOOR REQUIREMENTS
SCALE: 1/4" = 1'-0"

NOTES:

1. CLEAR SPACES MUST BE LEVEL TO PREVENT WHEELCHAIRS FROM ROLLING WHEN THE OCCUPANT RELEASES THE WHEEL GRIPS TO REACH FOR THE DOOR. 1/4" PER FOOT IS ALLOWED FOR DRAINAGE.
2. WHERE DOORS OPEN ONTO, BUT NOT INTO A CORRIDOR, THE REQUIRED LEVEL AREA BEYOND THE DOORS MAY BE A MINIMUM OF 48". FOR ADDITIONAL INFORMATION, REFER TO APPLICABLE NOTES ON TYPICAL ACCESSIBILITY NOTES SHEET.

1 DOOR CLEAR SPACE
SCALE: 1/4" = 1'-0"

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A Project for:

JD SPORTS #1425
LAS AMERICAS PREMIUM OUTLETS

4155 CAMINO DE LA PLAZA SPACE 0448A
SAN DIEGO, CA 92173

1

PORTFOLIO REFERENCE ONLY

Client:

JD SPORTS

3308 N. MITTHOEFFER ROAD
INDIANAPOLIS, IN 46235

ACCESSIBILITY NOTES AND DETAILS

Sheet #:

A00.4

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SPECIFICATION NOTES

DIVISION 0 – CONTRACT REQUIREMENTS

005000 CONSTRUCTION CONTRACT

A. Furnished by the Owner under separate cover.

B. References to the "Owner" shall mean Finish Line.

007200 GENERAL CONDITIONS

A. Use General Conditions agreed to by the Owner and the General Contractor.

B. References to the "Owner" shall mean Finish Line.

DIVISION 1 – GENERAL REQUIREMENTS

011000 SUMMARY

A. Definitions:
1. Landlord: Building Owner.
2. Owner: JD Sports

B. Special Work Requirements:
1. Obtain a copy of, and comply with, all design and construction requirements of the Landlord. Notify Owner immediately in the event that Landlord's requirements conflict with requirements of the Contract Documents.
2. Use of Premises:
   a. Coordinate use of premises under Owner and Landlord requirements, and in accordance with the requirements of jurisdictional code authorities.
   b. Limit use of premises to only those areas involved in the construction operations and as required for access.
   c. Occupancy Requirements: Adjacent tenant spaces may be occupied. Cooperate with the Owner and the Landlord to minimize conflict, and to facilitate the operations of adjacent tenants.
   d. Perform work during normal working hours, unless directed otherwise by the Owner.

C. Separate Work: Certain items will be furnished and installed by others. These items are noted on the Drawings as "By Owner's Vendor' or "(FOIO)". Perform work so as to allow the performance of work by other contractors.

D. Items Furnished by Owner for Installation by the Contractor:
1. Certain items will be furnished for installation by the Contractor. These items are noted on the Drawings as (FOIC).
2. Coordinate work to facilitate installation of these items.
3. Finish Line Responsibilities:
   a. Arrange for and deliver shop drawings, product data, and samples to Contractor.
   b. Arrange and pay for product delivery to site.
   c. Arrange for replacement of damaged, defective, or missing items.
   d. Arrange for manufacturers' warranties, inspections, and service.
4. Contractor's Responsibilities:
   a. Review shop drawings, product data, and samples.
   b. Schedule and coordinate deliveries; receive and unload products at site; inspect for completeness, for damage, jointly with Finish Line.
   c. Handle, store, protect, install and finish products.
   d. Repair or replace items damaged by Work of this Contract.
   e. Coordinate and provide for the installation of all fixture requirements including power and data, within all new or renovated areas.

E. Applications for Payment: Submit Applications for Payment in accordance with the General Conditions for Construction.

F. Coordination:
1. Coordinate work to assure efficient and orderly sequence of installation of construction elements, with provisions for accommodating items installed later.
2. Coordinate space requirements for mechanical and electrical systems. Make runs parallel with lines of building.
3. Execute cutting and patching to integrate elements of the Work. Remove ill-timed and defective work and replace with new work conforming to the requirements of the Contract Documents.
4. Seal penetrations through floors, walls, and ceilings.

G. Applicable Codes: Conform to the codes listed on the Drawings.

H. Request for Information:
1. A Request for Information (RFI) is a request from the Contractor directed to the Architect for clarification, interpretation, or direction regarding the Work as described by Contract Documents.
2. Coordinate and submit in timely manner so as not to impede delivery, work, and other conditions that may be detrimental to construction progress.
3. Use Architect's "Request for Information" form or another form as approved by the Architect.
4. Allow sufficient time in construction schedule for Architect's response to the RFIs.

I. Existing Utilities:
1. The Architect or the Owner assumes no responsibility for the completeness or accuracy of existing utility line information. Utility information shall be verified by the Contractor.
2. Unless otherwise required, maintain all existing utilities undisturbed during progress of work.
3. Where temporary utility shutdown is required for the performance of the work, schedule and coordinate with the Owner/Landlord Building Manager. Should the Contractor in the performance of the work, disturb, disconnect or damage any existing utilities required to remain in service, all expenses arising from such disturbance, replacing or repair thereof shall be borne by the Contractor.
4. Maintain and operate utilities systems to assure continuous service, except as otherwise approved by the Owner/landlord Building Manager. Give minimum 7 days notice of proposed utility shutdowns.
5. Obtain approval from the Owner/landlord Building Manager prior to cutting any utility lines.

J. Additional Conditions:
1. Scope of Work: As defined in the Agreement and indicated on the Drawings. Unless otherwise noted or directed, items scheduled and items indicated in the technical specifications shall only be required to the extent indicated on the Drawings. This shall not be interpreted to exclude accessories and procedures related to those items, as specified, and as necessary to complete the work.
2. Definitions:
   a. Where "as shown," "as detailed," or words of similar meaning are used, references to the Drawings are intended unless stated otherwise.
   b. Where "as directed," "as required," "as selected," "approved" or words of similar meaning are used, it shall be understood that "by the Architect" follows unless stated otherwise.
   c. "As necessary" shall be understood to mean "as necessary for a complete and fully functioning installation in accordance with requirements of the Contract Documents, applicable codes and jurisdictional requirements, and accepted trade practices.
   d. "Furnish" means "Contractor shall procure, pay for, and deliver"; "install" means "Contractor shall set in position and connect or adjust for final use"; "provide" means "Contractor shall furnish and install."
   e. Where "includes," is used, it shall be understood that items following may not be a complete list of components to the exclusion of other items not listed, but which may be reasonably inferred as necessary to complete the work.

012200 UNIT PRICES

A. Summary: Identification and description of Unit Prices.

B. General Requirements:
1. Unit Prices will be exercised at the option of the Owner.
2. Prices stated for each Unit Price shall include all costs for the construction covered by the Unit Price including overhead and profit.
3. Unit Prices shall be valid for the duration of the Contract.
4. The Construction indicated on the drawings constitutes the Basic Bid Work. Amounts stated for unit prices constitute the amounts to be added or subtracted to the Contract Price for changing the Basic Bid Work.

C. Unit Price Descriptions:
1. No. 1 – Preparation of Existing Gypsum Board Surfaces for Installation of Wallcovering:
   a. Item: Where existing gypsum board wall surfaces are textured or unsuitable for installation of new wallcovering, state the price for one of the following at Contractors Option:
      1) Skim coat existing wall surfaces.
      2) Install 1/4 inch thick gypsum board over existing wall surfaces. Finish to a level specified in Section 092900 for wallcovering substrates.
   b. Unit Measure: Per square foot.
2. No. 2 – Leveling of Existing Floor Slab:
   a. Item: State the price for leveling and filling existing exposed floor substrate to specified tolerance, in accordance with section 035416. Price shall include labor, materials, and equipment necessary to recondition the floor including preparation, priming, and filling as specified.
   b. Unit Measure: Per square foot to a depth of 1/4 inch.
3. No. 3 – Tile Floor Crack Isolation Membrane:
   a. Item: State the price for providing crack isolation membrane as specified in Section 093000.
   b. Unit Measure: Per square foot.

012300 ALTERNATES

A. Summary: Administrative and procedural requirements for Alternates.

B. Alternate:
1. An amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to or deducted from the Base Bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
   a. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

C. Procedures:
1. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
   a. Costs listed for each alternate include costs of related coordination, modification, or adjustment.
   b. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
   c. Include as part of each alternate, Contractor's costs for receiving and handling at Project site, labor, installation, overhead and profit, and similar cost related to products and materials.
   d. Include as part of each alternate, if acceptance will add to or decrease Contract Time.
2. Execute accepted alternates under the same conditions as other work of the Contract.

D. Schedule of Alternates:
1. Alternate No. 1 – Polished Cementitious Topping with ~~Painted~~ Floor ~~Marking Tape~~ Stripes.
   a. Base Bid: Polished concrete floor with ~~painted~~ floor ~~marking tape~~ stripes.
   b. Alternate: In the event polishing of existing concrete floor is not feasible, install polishable cementitious topping in accordance with Section 033536, and floor marking tape striping in accordance with Section 109013. Locations as indicated. ~~Paint cementitious topping floor stripes as indicated.~~
2. Alternate No. 2 – Tile Flooring with ~~Painted Cementitious Topping~~ Floor ~~Marking Tape~~ Stripes.
   a. Base Bid: Polished concrete floor with ~~painted~~ floor ~~marking tape~~ stripes.
   b. Alternate: In the event concrete floor polishing is not allowed by landlord, install floor tile in accordance with Section 093000 and ~~cementitious topping floor stripes in accordance with Section 035416. Paint cementitious topping floor stripes as indicated~~ floor marking tape striping in accordance with Section 109013. Locations as indicated.

013119 PROJECT MEETINGS

A. Pre-construction Meeting:
1. Prior to commencing construction, administer a preconstruction meeting to discuss the methods proposed to perform the work. Schedule meeting a minimum of 10 days prior to construction unless otherwise approved or indicated.
2. Address scheduling, utility shutdown times, demolition procedures, protective enclosures, barricading, construction sequencing and phasing, work times, access, security, and all other construction issues which would affect the operation, use, and appearance of the building.

B. Progress Meetings: Attend progress meetings called by Architect and/or Finish Line throughout the progress of the work.

C. Pre-installation Meeting: Convene a pre-installation meeting when it is specified for a certain portion of the Work. Require attendance of entities directly affecting, or affected by, the work of the Section.

D. General Contractor is responsible for all Meeting Agenda, Meeting Minutes, and distribution thereof.

013300 SUBMITTAL PROCEDURES, SCHEDULES AND SHOP DRAWINGS

A. Submittal Procedure:
1. Identify deviations from Contract Documents. Leave space for Contractor and Architect review stamps.
2. Review and sign each submittal prior to submittal to Architect. Unsigned submittals may be returned without review.
3. Transmit each item to Architect unless directed otherwise. Include project name, Contractor name, subcontractor or supplier name, and drawing sheet, detail number, or specification section number corresponding to the submittal as appropriate.
4. Make submittals as required to cause no delay in the Work. Allow sufficient time for possible revision and resubmittal of rejected submittals.
5. Revise and resubmit rejected submittals as required to obtain approval.

B. Progress schedule, vendor schedule, submittal schedule, Schedule of values, and progress photos: Submit the following to Architect and Owner.
1. Progress Schedule: Submit horizontal bar chart with separate bar for each major trade or operation, identifying first work day of each week.
2. Vendor Schedule: Submit list of Owner's Vendors indicating name of Vendor, Contact Name and Phone Number, and date of arrival on site.
3. Submittal Schedule: Submit List of Submittals required by Specifications and indicate Specification Section and Date required for submittal. Allow time for Architect and Consultant reviews and resubmittal as may be required.
4. Schedule of Values:
   a. Submit typed schedule on form as approved by Architect.
   b. Subdivide into each major trade or category of work.
   c. Include a line item amount for each Allowance if applicable.
   d. Include in each line item a directly proportional amount of Contractor's overhead and profit.
5. Submit progress, vendor and value schedules within 5 days after Notice to Proceed.
6. Submit revised schedules with each Application for Payment; revised schedules shall reflect changes, including change orders, since previous submittal.
7. Submit progress photos weekly using template provided by the architect or as approved.

C. Shop Drawings, Product Data and Samples:
1. Shop Drawings:
   a. Submit shop drawings in the form of electronic copies or 2 legible hard copies.
   b. Unless specified otherwise, shop drawings shall show quantities, materials, details of assembly, adjacent construction, dimensions, and other appropriate information to fully illustrate the work.
2. Product Data:
   a. Submit product data in the form of electronic copies or 2 legible hard copies. Mark each copy to identify applicable products, models, options, copies or 2 legible hard copies. Mark each copy to identify applicable products, models, options, and other data; supplement manufacture's standard data to provide information unique to the work.
3. Samples:
   a. Submit samples as specified in the technical sections.
   b. Include identification on each sample giving full information.
   c. Submit three samples, one of which will be retained by Architect, unless indicated otherwise in the technical section.

D. Certificates: Submit the original signed version to Architect.

014500 QUALITY CONTROL

A. Standards:
1. Comply with industry standards except when more restrictive tolerances or specified requirements indicate more rigid standards or more precise workmanship.
2. Perform work to meet or exceed the requirements of applicable codes, ordinances, laws, regulations, safety orders, and directives from authorities having jurisdiction over the work.
3. Accessibility: Equipment, accessories and work shall be in accordance with Federal, State and local codes with respect to handicap accessibility, and with The Americans with Disabilities Act (ADA). The more restrictive code shall apply.
4. Perform work with persons qualified to produce workmanship of specified quality.
5. Install products in accordance with the manufacturer's recommendations. Where conflict exists between manufacturer's recommendations and the specified requirements, notify Architect immediately.

B. Examination Prior to Installation:
1. Prior to starting work of each trade or location, carefully inspect existing conditions and installed work of other trades, and verify that such work is compatible and complete to the point where new work may properly commence. Notify the Architect of conditions detrimental to the proper and timely completion of the work.
2. Do not begin installation until unsatisfactory conditions are resolved. Beginning work constitutes acceptance of existing site conditions and responsibility for defective installation caused by prior observable conditions.

C. Mock-Ups:
1. Provide mock-ups as specified in the individual specification sections. Provide additional mock-ups, as required by the Architect, until approval is obtained.
2. Do not proceed with subsequent work until approval of the mock-up is obtained.
3. Approval of mock-up shall be the standard of workmanship and materials for the remainder of the work similar to the mock-up.
4. Maintain mock-up in approved condition, until directed otherwise.
5. Unless specified otherwise, remove mock-up at completion, when directed by Architect.
6. Schedule to permit time for review and adjustment as necessary.

D. Testing Laboratory Services:
1. Where the scope of the work requires, the Owner will arrange for the services of an Independent testing laboratory to inspect and test the Work to verify compliance with the Contract Documents. Reports of all inspections and tests shall be submitted to the Architect for review.
2. Contractor's Responsibilities:
   a. Cooperate with testing laboratory personnel, and furnish access, tools, samples, certifications, test reports, design mixes, equipment, storage, and assistance as requested by the testing laboratory.
   b. Notify Architect and testing laboratory 48 hours prior to expected time for operations requiring inspection and testing. When tests or inspections cannot be performed, through the fault of the Contractor, reimburse the Owner for the additional costs incurred.
   c. Remove and replace all work found not complying with the Contract Documents. Remedies shall be in accordance with the Contract Documents and code requirements.
   d. If initial tests and inspections indicate deficient work, the Contractor shall reimburse the Owner for the costs of all subsequent tests and inspections related to the deficiency.
   e. All damage which may occur to the work as a result of normal testing operations shall be repaired to match surrounding surfaces.
   f. Schedule testing and inspection so that the work of testing and inspection personnel will be as continuous and brief as possible.
   g. Reimburse the Owner for travel and lodging expenses incurred for testing and inspection services performed outside a radius of 100 miles of the site.
3. Tests and inspections shall be in accordance with code requirements.
4. Contractor's Convenience Testing: Inspection and testing performed exclusively for the Contractor's convenience shall be the sole responsibility of the Contractor.

015000 TEMPORARY FACILITIES AND CONTROLS

A. Temporary Utilities: Provide temporary utilities, services, and construction as required to perform the work. Coordinate temporary facilities and controls with Owner and the Landlord.
1. Electricity: Connect to existing service. Owner will pay costs of energy used. Take measures to conserve energy.
2. Lighting: Permanent lighting may be used during construction. Provide additional temporary lighting as required.
3. Heating and Ventilation: Permanent system may be used. Owner will pay for the cost of energy used. Take reasonable measures to conserve energy.
4. Telephone.
5. Water: Utilize existing facilities. Owner will pay for water used. Take reasonable measures to conserve water.
6. Sanitation: Existing facilities may be used by construction personnel prior to project turnover, subject to thorough cleaning and repair as necessary to leave facilities in new condition. When existing facilities are not operational or accessible, provide suitable portable sanitation units.

B. Controls:
1. Dust Control: Provide temporary enclosures as required to prevent penetration of dust into occupied areas separate from work areas, to prevent damage to operating systems and components, and to create environmental conditions necessary for the proper installation of materials and systems.
2. Safety Barriers: Provide and maintain, all lawful and necessary barricades, railings, lights, warning signs, signals, and precautions as may be required to safeguard persons from injury.
3. Smoking: Smoking shall be prohibited in all interior spaces.
4. Noise Control: Provide necessary precautions as required by the Landlord.
5. Construction Cleaning:
   a. Control accumulation of waste materials and rubbish. Periodically dispose of off-site.
   b. Maintain areas free of dust and other contaminants during finishing operations.
   c. Clean and sweep site daily.

C. Maintain pedestrian and vehicular access to site and within site to provide uninterrupted access.

D. Fire Safety: Comply with applicable provisions of the IFC for fire safety during demolition and construction operations.

E. Temporary Construction:

1. Obtain approval from Architect and/or Landlord for modifications to existing systems or facilities not indicated.
2. Barricade:
   a. Provide full height barricade to separate construction area from exterior or mall concourse.
   b. Barricade shall conform to Landlord's requirements. When no requirements exists, the barricade shall conform to the following:
      1) Barricade shall consist of metal stud framing and gypsum board or plywood toward the public side. Paint to match color as directed by the Landlord.
      2) Provide locked door if required for access to the construction area. If a door is required, it must swing in.
   c. Remove barricade in accordance with Section 017700.
3. Remove temporary systems or facilities when use is no longer required. Clean and repair damage caused by installation or use of temporary systems or facilities.

F. Protection: Protect existing and new construction from damage caused by construction operations; provide protective covering to protect surfaces, as appropriate.

016000 PRODUCT REQUIREMENTS

A. Delivery, Storage, and Handling:
1. Transport and handle products by methods to avoid product damage.
2. Manufactured procucts shall remain in manufacturer's containers or packaging, stored in accordance with Manufacturer's instructions, until ready for installation.

B. General Installation Requirements
1. Install each product in accordance with the product manufacturer's instructions, as supplemented by the specifications. Where manufacturer's installation tolerances are special or more restrictive than those specified, manufacturer's instructions shall govern.
2. Do not omit any preparatory step or installation procedure unless specifically modified or exempted by Contract Documents.
3. Distribute copies of manufacturer's instructions to parties involved in the installation.
4. Maintain one set of complete instructions at the job site during installation and until completion.
5. Protect installed components and products from damage. Components and products which are damaged shall be replaced or repaired to like-new condition.

C. Product Options
1. Product Specified by Reference Standards or by Description Only. Provide product meeting those standards.
2. Product Specified by Naming One or More Manufacturers with an "or approved" provision: Use specified product or submit a request for substitution in accordance with the specified substitution requirements. When approved a substitute product may be used.
3. Product Specified by Naming One or More Manufacturers Without Provision for Substitution: No substitution will be allowed, except as specified under the Article on Substitutions.
4. Basis of Design
   a. Specifications naming products as the "Basis of Design" are not intended to imply preference and should not be construed as restrictive. The product named as basis of design is deemed suitable for use as indicated with regard to characteristics such as function, performance, size, color, texture, pattern, strength, and configuration.
   b. Where other manufacturers are named, they are deemed to make products of comparable quality with similar characteristics. There is no implied warranty that standard products of other named manufacturers are suitable for the work without modification. The Contractor is responsible for assuring coordination of the product as if no "basis of design" had been named.
   c. Unless otherwise specifically noted, where salient attributes are listed with a numerical value, without qualification such as "maximum," "minimum," or statement of an acceptable range, then values within 10 percent of those specified will be considered acceptable.
   d. Products of manufacturers not named in the specification may only be submitted subject to product substitution requirements described elsewhere in these specifications.

D. Product Substitutions:
1. Intent: The Contract Documents require consistent character and quality of design. All components, including visible items of mechanical and electrical equipment, have been selected for a coordinated design in relation to the overall project appearance, function, and performance. Proposed substitutes which in the Architect's opinion would be out of character, obtrusive, or otherwise inconsistent with the design intent, will not be approved.
2. Furnish products specified, except where "or approved" is used; substitute products may be submitted to Architect for approval.
3. Substitutions will be considered only for the following reasons:
   a. A product becomes unavailable due to no fault of the Contractor.
   b. Subsequent information or changes indicate that the specified product will not perform as intended.
   c. A substitute product will be in Owner's best interest by providing a cost savings or schedule benefit.
4. Document each substitution request on substitution request form as supplied by the Architect. Provide complete data substantiating compliance of proposed substitution with contract documents.
5. A substitution request constitutes a representation that Contractor:
   a. Has investigated proposed product and has determined that it meets or exceeds performance of the specified product, in all respects.
   b. Shall provide the same warranty for substitution as for specified product.
   c. Will coordinate installation and make other changes which may be required for work to be complete in all respects.
   d. Waives claims for additional costs that may subsequently become apparent.
   e. Agrees to pay all costs of redesign related to the substitution.
6. Substitutions will not be considered when they are indicated or implied on shop drawings or product data submittals.
7. The Architect will determine acceptability of proposed substitution, and will notify Contractor of acceptance or rejection within a reasonable time.

E. Bidder-Designed Items:
1. Items designated in the Contract Documents as "Bidder-Designed" are documented as necessary to describe design intent. The Contractor shall be responsible for the final design, engineering, permitting (if required by law), furnishing, and installation of the complete item, including components required to yield a fully functioning, structurally stable, and warrantable item in compliance with documented design intent, and applicable building codes.
2. Except as specifically indicated, the Contractor shall be responsible for interface of bidder designed items with other components of the project, including connection to utilities if appropriate.
3. Submittals for each bidder designed item shall indicate the scope of the bidder design work in detail sufficient to clearly describe interface with other items or work.

017329 CUTTING AND PATCHING

A. Repair existing surfaces and construction as necessary to make Work complete, with all components matching and consistent.

B. Provide a smooth, even, and invisible transition to new construction. When finished surfaces are cut so that an invisible transition with new work is not possible, terminate existing surface along the nearest break line, joint, or corner.

C. Major patching procedures shall be reviewed with the Building Owner, prior to proceeding.

D. Existing Sprayed Fireproofing: Patch and repair existing sprayed fireproofing to match the fire rating of the existing construction. Hand patch using UL-approved materials and procedures.

E. Cutting of Concrete or Masonry:
1. Concrete and masonry shall be sawcut or core-drilled.
2. Limit trenches cut in slabs-on-grade to a maximum width of 2 feet, unless approved otherwise by the Architect.

F. Patching of Concrete Slabs on Grade:
1. Ensure that below grade construction is complete in the slab area to be patched.
2. Replace existing subgrade materials to match existing. Replace and make continuous vapor barriers and other similar construction disturbed or damaged during demolition or construction operations.
3. Recompact existing subgrade to 95 percent of maximum dry density as determined by ASTM D1557.
4. Drill and epoxy reinforcing dowels as indicated on the Structural Drawings.
5. Unless otherwise indicated, patch slab with concrete having a minimum 28-day strength of 3000 psi; maximum water/cement ratio of 0.42. Use superplasticizer admixture as necessary for workability.
6. Finish concrete to match adjacent surfaces.

G. Patching of Abandoned Core Drills:
1. Patch with non-shrink grout.
   a. Premixed compound consisting of non-metallic aggregate, cement, water reducing and plasticizing agents; minimum compressive strength of 7000 psi in 28 days. Conform to the following:
      1) Grout shall be non-bleeding.
      2) ASTM C1107, Grade B.
      3) Fluid consistency (flow cone) as measured by 25-30 second flow per ASTM C939 at temperature extremes or 40 degrees F and 90 degrees F.
      4) Working time not less than 30 minutes at both of the noted temperature extremes.
2. Trowel flush with adjacent concrete surfaces. Match adjacent finish.

017700 CLOSEOUT PROCEDURES

A. Final Cleaning:
1. Thoroughly clean all surfaces prior to final acceptance.
2. Remove waste and surplus materials, rubbish, and construction facilities from the site.

B. Closeout Procedures:
1. Comply with procedures stated in General Conditions of the Contract for Substantial and Final Completion.
2. Owner's Review and Punchlist:
   a. One week after substantial completion, the following shall be complete and ready for Owner's inspection:
      1) All Work under this contract except minor punchlist items.
      2) Completed storefront and entrance doors including application of protective Kraft paper on all glazing.
      3) Subject to compliance with Landlord's requirements, removal of temporary construction barricades.
3. Submit all certificates of approval issued by the governing authorities, including, without limitation, the following:
   a. Certificate of Occupancy.
4. Prior to final payment, submit the following affidavits using the forms listed below:
   a. Contractors Affidavit of Payment of Debts and Claims AIA Document G706.
   b. Consent of Surety for Final payment AIA Document G707.
   c. Contractors lien release, and lien releases from each subcontractor; Contractors Affidavit of Release of Liens AIA Document G706A.
5. Submit final Application for Payment identifying total adjusted contract sum, previous payments, and sum remaining due.
6. All Closeout Procedures shall be complete within 45 calendar days of store opening.

C. Project Recrord Documents:
1. Maintain a complete set of record drawings which clearly and neatly indicate exact installed locations of items that will be concealed in the work such as conduit, piping, ducts, reinforcing, mechanical and electrical equipment, and similar items. Show all changes from the contract documents, and all uncovered existing conditions that will be subsequently concealed.
2. Record drawings shall be used for no other purpose and shall be stored separately from those used for construction.
3. Documents shall be in same format as the Construction Documents.
4. Keep documents current; do not permanently conceal any work until required information has been recorded.
5. At Contract Closeout, submit documents with transmittal letter containing date, Project title, Contractor's name and address, list of documents, and signature of Contractor.
6. Provide Record Drawing Storage Tube constructed from 4" plastic pipe with end caps and provision for wall mounting. Mount on wall in Stockroom at location as directed by the Architect.

D. Submittals: in addition to submittals required by the Conditions of the Contract, and submittals required by Section 013300, furnish submittals required by governing authorities, and submit a final statement of accounting giving total adjusted Contract Sum, previous payments, and sum remaining due.

E. Operation and Maintenance Data (two copies required, separate binders):
1. Submit complete data for each piece of equipment and component used in the work.
2. Submit operation and maintenance data for mechanical and electrical systems.
3. Arrange in a binder with a section for each system.
4. Include copies of submittals where submittals are required by individual sections.
5. Provide one separate copy of the following items, punched for insertion in Owner's 3-ring binder. Submit to store Manager:
   a. Contractor's Phone List
   b. Alarmed Panic Exit Hardware Instructions (use and battery replacement)
   c. Lighting Controls O & M Manual (lighting time clock programming)
   d. HVAC O & M Manual (thermostat controls and time clock programming)

F. Warranties, Guarantees and Bonds: (two copies required, separate binders):
1. Submit manufacturer warranties.
2. Furnish written guarantee, from each subcontractor performing work covered by the additional guarantee requirements specified in the technical sections. Unless specified or approved otherwise, the guarantee shall commence on the date of Substantial Completion. Each guarantee shall be signed, and:
   a. State that the work under guarantee was installed in accordance with the Contract Documents.
   b. State the work will be free from defects in workmanship and material for the period of time specified.
   c. State that defects will be promptly repaired without additional cost to the Owner.

G. Spare Parts and Maintenance Materials: Furnish products, spare parts, and maintenance materials in quantities specified in each Section, in addition to that used for construction of Work. Coordinate with Owner; deliver to Project Site and obtain receipt prior to final payment.

DIVISION 2 – EXISTING CONDITIONS

024119 SELECTIVE DEMOLITION

A. Demolish in an orderly and careful manner as required to accommodate the work. Where demolition exceeds that indicated, verify such demolition with the Architect prior to proceeding.

B. Protect existing structural members.

C. During demolition operations, notify the Architect of all conditions which differ substantially from those indicated, specified, or expected. Perform no demolition in such areas, unless approved by the Architect.

D. Provide bidder designed temporary shoring as required to support existing construction against movement or overload during demolition operations, until permanent supports are in place.

E. Except where noted or specified otherwise, take possession of materials being demolished, and immediately remove from site in accordance with Section 015000, and local disposal and recycling requirements. Do not overload existing construction to remain with demolished materials.

F. Carefully remove, store, and protect all materials and components to be reused.

G. Where possible without damage, remove, store, and protect existing materials and components not noted for removal, which if removed, would facilitate the new construction and reconditioning.

H. Carefully remove, protect, and turn over as directed, materials and components claimed by the Owner for salvage. Prior to demolition, contact the Owner to determine which items will be claimed.

I. Where cut edges of the existing construction will be visible in the completed work, cut in uniform straight lines. Concrete and masonry shall be saw cut or core drilled.

J. Repair all demolition performed in excess of that required, at no additional cost to the Owner.

K. Utility Line Demolition:
1. Verify locations of existing utilities prior to demolition.
2. Abandoned underslab conduit shall be cut off below the finished surface line, and all conductors shall be removed. Patch and fill the opening flush with the finish.
3. Abandoned electrical conductors shall be removed back to the branch circuit panel, unless indicated otherwise. Abandoned conduit which is exposed and readily accessible shall be removed. Leave abandoned conduit which is concealed in existing construction to remain.
4. Abandoned piping which is exposed and readily accessible shall be removed. Leave abandoned piping which is concealed in existing construction to remain. Cap all exposed ends.
5. Indicate location of disconnected utilities on the Project Record Drawings.

L. Leave site in a condition acceptable to the Owner at all times. Remove demolished materials from site daily as work progresses. Do not overload existing structure with demolished materials.

M. Removal of Bonded Floor Finishes:
1. Scrape, grind and otherwise remove existing floor finish and bonding materials as necessary to receive new floor finishes.
2. Prepared surface shall present a uniform flat surface ready to receive the new floor finishes free of telegraphing and other surface irregularities.
3. New floor finishes shall not be installed over existing floor finish materials unless approved otherwise.

DIVISION 3 – CONCRETE

033536 POLISHED CONCRETE FINISHING

A. Summary: Bonded abrasive polishing of existing concrete slabs as follows:
1. Surface preparation.
2. Application of liquid concrete hardener and densifier, and stain.
3. Grind and polish of floor to desired finish.

B. Related Sections:
1. 012300 - Alternates: Work described in this section.

C. System Description:
1. Multistep mechanical processes and accessories to provide a complete system and achieve specified finish.
2. Mechanical bonded abrasive grinding and polishing equipment, concrete repair and topping materials, concrete treatment densifiers.

D. Quality Assurance:
1. Qualifications of Installers: Use only installers certified by the manufacturer and who are thoroughly trained by the manufacturer, skilled in the work, and who are completely familiar with the systems specified.
2. Submit to Owner: Written certification, signed by manufacturer's representative, stating applicator as trained and qualified to perform work of this Section using proposed manufacturer's products, including qualification criteria.

E. Mock-up:
1. Provide minimum of 60 square feet of mock-up polished slab at location designated by the Architect, using same equipment and installer's personnel who will perform the actual work.
2. Mock-up to demonstrate surface finish, color variations, and level of workmanship. Include saw cut joint with joint filler as specified.
3. Approved mock-up may be retained and incorporated into the finished work.

F. Pre-Installation Conference:
1. Administer prior to starting the work.
2. Attendance:
   1) General Contractor.
   2) Polishing system installer.
   3) System manufacturer's representative.
   4) Other parties affected by the work.
3. Agenda:
   a. Review Contract Document requirements.
   b. Review requirements for assessment of sound substrate and subsequent remediation in the case of sub-standard conditions.
   c. Review requirements for environmental conditions and storage of materials.
   d. Review system manufacturer's preparation and application instructions including, but not limited to, the following:
      1) Condition of existing concrete floor and suitability for grinding and polishing.
      2) Application of cementitious polishable toping system if required.
      3) Details of each step of grinding, honing, and polishing operations.
      4) Application of liquid applied products.
      5) Protecting concrete floor surfaces until polishing begins.
      6) Sealing and protecting polished concrete floors after polishing is completed.
   e. Review conditions or techniques which would prevent the satisfactory application of the polishing system.
4. Reports: Record discussions, including decisions and agreements reached, and furnish copy of record to the Owner and each party in attendance.

G. Project Conditions:
1. Comply with the polishing system manufacturer's written instructions for age of cured concrete, substrate temperature and moisture content, ambient temperature and humidity, ventilation, and other conditions affecting the floor finish.
2. Close areas to all traffic during and after polished concrete system application for the time period recommended by the system manufacturer.
3. Do not apply product when air, surface, or material temperatures are expected to fall below 40° F (4° C) within four hours of expected application.
4. Do not use on highly dense or non-porous surfaces.
5. Limit and control damage from excessive dust caused by grinding/polishing procedure.
6. Properly dispose of collected dust from polishing.

H. Warranty: Furnish manufacturer's standard warranty.

I. Maintenance:
1. Extra Materials: Furnish 5 gallons of the polishing system manufacturer's recommended compatible cleaning agent to onsite Owner personnel.

J. Approved Polishing System Manufacturer:
1. CTS Cement Manufacturing Corporation (Cypress CA; 800-929-3030). No Substitutions allowed.

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CLEVELAND
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Seal:

A Project for:

JD SPORTS #1425
LAS AMERICAS PREMIUM OUTLETS

4155 CAMINO DE LA PLAZA SPACE 0448A
SAN DIEGO, CA 92173

⚠

PORTFOLIO REFERENCE ONLY

Client:
JD SPORTS

3308 N. MITTHOEFFER ROAD
INDIANAPOLIS, IN 46235

SPECIFICATIONS

Sheet #:
A00.5

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K. Materials:
1. Stain: AmeriPolish, Inc. (Lowell, AR; 800-592-9320) "Surelock Dye" system as furnished by system manufacturer; color "Gray", diluted 4:1 with Acetone or Water. and accepted from mock-up.
2. Hardener/Densifier: Low-VOC silicate as furnished by system manufacturer and accepted from mock-up.
3. Finishing Sealer: System manufacturer's recommended topical sealer; low-VOC, non-film forming, stain resistant.
4. Polishing Overlay Topping System (ALTERNATE #1):
   a. Topping: CTS Cement, "TRU-PC" polished concrete self-leveling topping; natural color (no added dye or pigment).
   b. Primer: CTS Cement, "Rapid Set TXP – TRU Epoxy Primer"; two component, moisture and alkali insensitive, epoxy primer.
5. Surface Patching and Repair Material (when required for slab repair under Work of this Section): As recommended by the polishing system manufacturer.
6. Polished Concrete Flooring Transition:
   a. Transition Type – Portland Cement Underlayment Ramp:
      1) Materials used to install the ramp are as follows in ascending order from slab to top of ramp.
         a) Substrate Primer: Ardex BACA or EP-2000.
         b) Ramp Mortar Material: Ardex ERM Exterior Ramp Mortar.
         c) Acrylic Sealer: Ardex Concrete Guard.
      2) Provide tinting pigments to custom-match the finish color of the product.

L. Equipment:
1. Field Grinding and Polishing Equipment:
   a. A multiple head, variable speed, counter rotating, walk behind machine, of various size and weights, with bonded abrasive pads affixed to heads for the purpose of grinding concrete.
   b. Equipped with heavy-duty industrial HEPA filtration vacuum to capture and prevent concrete dust from escaping into interior spaces. Provide mandatory pre-separator for all metal bond cuts when grinding dry.
   c. Grinding and polishing equipment capable of generating at least 600 lbs head pressure.
2. Edge Grinding and Polishing Equipment: Hand-held or walk-behind machines which produces same results, without noticeable differences as field grinding and polishing equipment, designed to access areas adjacent to vertical surfaces and inside corners.
3. Burnishing Equipment: High speed walk-behind machines capable of generating 1000 to 2000 revolutions per minute and with sufficient head pressure of not less than 20 pounds to raise floor temperature by 20 degrees F.
4. Diamond Tooling: Abrasive tools that contain industrial grade diamonds within a bonded matrix (such as metallic, resinous, and ceramic) attached to rotating heads to refine the concrete substrate.
   a. Allowable Grinding/Polishing Diamonds (or approved equivalents):
      1) Metal Bonded Diamond Grit Sizes: 40, 80, and 150.
      2) Hybrid Style Diamond: 30, 50, 100 or approved equivalent.
      3) Resin Bonded, Phenolic Diamond Grit Sizes: 100, 200, 400, 800, and 1500 (or manufacturer's equivalent designations) as needed to achieve specified gloss.
   b. Progression of all polishing steps shall include sequential grit sizes that are not greater than twice the previous grit used.

M. Accessories
1. Neutralizing Agent: Tri-sodium phosphate or baking soda.
2. Water: Clear and potable.
3. Kraft Curing Paper: Conforming to ASTM C171, Type 1.1.1, non-staining, moisture retentive, as specified by the system manufacturer.
4. Semi-Rigid Joint Sealant: Rapid setting, two-component polyurea polymer liquid of 100% solids content with a minimum hardness of Shore A 75 (ASTM D2240) as recommended by the polishing system manufacturer; VOC compliant; colored to match the concrete.

N. Preparation:
1. Concrete Surface:
   a. Clean, smooth, and flat conforming to specified floor tolerances specified by Section 035416
   b. Free of chemicals, acids, curing compounds and other substances that may inhibit application of products specified by this section, including penetration of dyes.
   c. Required Tests:
      1) Measure pH according to method indicated in ASTM F 710. Notify the Architect of pH results lower than 8 and higher than 10.
      2) Perform relative humidity test using in situ probes in accordance with ASTM F 2170. Notify the Architect of results higher than 75 percent.
      3) Perform anhydrous calcium chloride test in accordance with ASTM F 1869. Notify the Architect of results higher than 8 pounds per 1000 square feet in 24 hours (MVER).
   d. Test results that are determined to be out of conformance with the polishing system manufacturer's acceptable limits shall be remedied to levels needed to attain warranty certification.
2. Clean concrete surfaces of dirt and other particulates and remove oil, stains, grease, adhesives, water repellents, and other substances that may be detrimental to work of this Section.
3. Protect adjacent concrete surfaces not receiving the work of this Section.
4. Dust Control: Seal off adjacent building areas and cover adjacent work to limit air-born dust migration from settling on surfaces and polluting other parts of building.
5. Conform to the system manufacturer's instructions and provisions of the Contract Documents to achieve appearance conforming to accepted mock-ups.
6. Polishing Overlay Topping (ALTERNATE #1):
   a. In the event polishing of existing concrete floor is not feasible, install polishable cementitious topping in accordance with Section 012300, Alternate #1.
   b. Mechanically prepare surface to ICRI CSP 3-5. Use of acid is prohibited.
   c. Clean and prime substrate, prior to pouring topping, in accordance with the topping manufacturer's installation instructions.
   d. Install cementitious topping to a 3/8 inch thickness in accordance with the manufacturer's instructions.

O. Installation:
1. Install polished concrete floor system in accordance with system manufacturer's instructions at locations indicated on the Drawings.
2. Complete all joint filling work a minimum of 72 hours prior to commencement of any grinding or polishing. Fill movement joints and active cracks with semi-rigid joint sealant.
3. Perform all polishing procedures to ensure a consistent appearance from wall to wall in accordance with established appearance criteria as approved in the mock-up.
4. Clean floor thoroughly after each grinding pass using dust extraction equipment properly fitted with squeegee attachment or walk behind auto scrubber suitable to remove all visible loose debris and dust.
5. Patching and Repair:
   a. Tint the Surface Patching and Repair Material, as directed by the manufacturer to match color of existing concrete substrate.
   b. Fill surface imperfections including, but not limited to, holes, surface damage, static cracks, air holes, pop-outs, and other voids.
   c. Work compound and treatment until color differences between concrete surface and filled surface imperfections are not reasonably noticeable when viewed from 10 feet away under lighting conditions similar to those present after construction.
6. Installation of Portland Cement Transition Ramp:
   a. Install in accordance with manufacturer's installation instructions and recommended substrate preparation.
   b. Install at transition location between entry floor tile and polished concrete floor.
   c. Coordinate installation of ramp with the polished concrete system installation.
   d. Obtain approval from the Owner prior to any saw cutting and chipping operations in the structural slab.
   e. Installation of Exterior Ramping Material (ERM):
      1) At the perimeter of the structural concrete substrates to receive ramp transition fill, saw cut structural slab to a 1/4 inch depth to establish a uniform straight line to terminate the fill.
      2) Mechanically profile (achieved by hand grinder or scarification bit) area to receive ramp to a CSP of #4 and establish the 1/4 inch minimal depth required to apply the ramping material
      3) Tape off both surfaces (blue painters tape or a quality removable, non-transferring tape) to avoid applying ERM to the newly polished concrete and or existing finished floor surface.
      4) Dampen concrete area to receive ERM material just before water rejection.
      5) Apply rough trowel slurry coat of ERM just before installation of the final ERM screed to ensure a solid bond is established.
      6) Install ERM; screeded flush to the existing surface transition.
      7) Lightly wipe residual ERM material overlapping the tape to reestablish a clean transition line
      8) Seal and Burnish along with entire floor or just the ramp individually. ERM requires 72 hours (can be walked on with 2-3 hrs) before being sealed.
7. Initial Grinding:
   a. Begin grinding in one direction using sufficient size grit pad.
   b. Make sequential passes with each pass perpendicular to previous pass using finer grit pad with each pass, up to 150 grit.
   c. Bring floor into desired flatness and smoothness using metal bonded diamond grinding equipment.
   d. Achieve maximum refinement with each pass until floor is scratch pattern free and before proceeding to finer grit pads.
   e. Hand-grind and polish as necessary to bring floor finish flush with walls and other vertical surfaces.
   f. Continue grinding until aggregate exposure matches approved field mock-ups.
   g. Fill pin holes with patching compound as recommended by the polishing system manufacturer.
   h. Remove dry dust or wet slurry prior to proceeding on to treatment stage.
8. Penetrating Dye:
   a. Mix dye concentrate in accordance with manufacturer's instructions.
   b. Apply penetrating dye after appropriate resin-bonded diamond-polishing step in accordance with manufacturer's instructions.
   c. Thoroughly remove excess dye residue in accordance with manufacturer's instructions.
   d. Repeat application of penetrating dye, when applicable, due to porosity of slab or when darker color is desired.
9. Hardener/Densifier
   a. Apply to point of rejection in accordance with the system manufacturer's instructions.
   b. Remove excess material in a timely manner, in accordance with the system manufacturer's instructions, to prevent surface clouding or haze formation.
   c. Dispose of excess materials in a proper manner approved by the authority having jurisdiction (AHJ).
10. Honing
   a. Use grinding equipment with hybrid or resin bonded grinding pads.
   b. Grind concrete making as many sequential passes required to remove scratches, each pass perpendicular to previous pass, up to 400 grit pad reaching maximum refinement with each pass before proceeding to finer grit pads.
   c. Auto scrub or vacuum floor using squeegee vacuum attachment after each pass.
11. Polishing
   a. Use polishing equipment with resin bonded polishing and burnishing pads.
   b. Begin polishing in one direction starting with 800 grit pad.
   c. Make sequential passes with each pass perpendicular to previous pass using finer grit pad with each pass, up to 1500 grit.
   d. Achieve maximum refinement with each pass before proceeding to finer grit pads.
   e. Auto scrub or vacuum floor using squeegee vacuum attachment after each pass.
   f. Continue polishing until gloss appearance matches approved fied mock-up.
12. Final Finishing and Sealing
   a. Verify that the floor is dry and clear of debris prior to completion of the final polishing stages.
   b. Perform finish polishing of concrete floor slab using diamond polishing equipment to achieve uniform final finish, matching mock-up.
   c. Provide the system manufacturer's optional topical agent to seal the surface until the densifier can develop to its full potential.
   d. Final Polish: Using burnishing equipment and finest grit burnishing pads, burnish to uniform final sheen matching approved mock-up.
   e. Finish:
      1) Final Concrete Floor Finish: Conform to finish sheen and treatment as accepted by mock-up.
      2) Provide appearance similar to gloss sheen working up to a Level 3 – 1500 grit diamond polish.
         a) Reflective Clarity Reading: Not less than 65 according to ASTM D5767 prior to the application of sealers.
         b) Reflective Sheen Reading: Not less than 35 according to ASTM D523 prior to the application of sealers.
      3) Color: Provide system dye color as scheduled on the Drawings, and as approved in the mock-up
      4) Slip Resistance: Unless approved otherwise, Measured Dynamic Coefficient of Friction (DCOF) shall be not less than 0.30 (WET) at time of testing as measured using a Regan Scientific Instruments BOT-3000E Tribometer, in accordance with ANSI B101.3.

P. Field Quality Control
1. Field Testing: Engage a qualified walkway auditor to perform field testing to determine if in-place floor finish complies with specified coefficient of friction.
2. Slip Resistance Measurements:
   a. Take slip resistance measurements prior to Owner Possession.
   b. Test Method shall conform to ANSI/NFSI B101.3-2012.
   c. Provide a minimum of 2 tests for every 1000 SF of polished concrete floor area, with a maximum dimension between tests locations of 30 feet o.c.; provide even distribution of testing throughout.
   d. Collect and record slip resistance measurements on Floor Plan and submit with closeout documents as specified
   e. Within 24 hours of testing, notify the Architect of all non-conforming measurements.

Q. Protect finished floor from traffic for the duration required by the polishing system manufacturer.

035416 HYDRAULIC CEMENT UNDERLAYMENT

A. Summary:
1. Cementitious underlayments for leveling of new or existing concrete floor substrates as necessary to meet specified tolerances.
2. Cementitious toppings as necessary for leveling new or existing slabs at locations indicated to receive concrete sealer.
3. ~~[Cementitious topping at floor stripe locations between floor tile in accordance with Alternate #2]~~
4. Ramps and tapers as necessary to align levels between dissimilar finishes.
5. Ramps exposed in the final work.

B. Environmental Requirements
1. Maintain surface and ambient temperature of between 50 and 80 degrees F for 24 hours before, during, and 24 hours after underlayment installation.

C. Materials:
1. Fast-Setting Self Leveling Underlayment System: Self-leveling, pourable, cement based material, minimum 28 day compressive strength 3,000 psi when tested in accordance with ASTM C109; minimum bond strength 200 psi; one of the following.
   a. "UltraPlan 1 Plus" by Mapei Corporation (888-876-2734).
   b. "K-15" or "K55 Rapid" Self-Leveling Underlayment Concrete by Ardex Inc. (888-512-7339)
   c. "Level-Right" by Maxxon (800-356-7887).
   d. "84 Latilevel" thin pour, or "86 Latilevel" fast setting, or "86 Latilevel" thick pour by Laticrete International, Inc. (800-243-4788)
2. Fast-Setting Trowelable Underlayment System:
   a. "Mapecem Quick Patch" or "Planiprep SC" by Mapei Corporation (888-876-2734l).
   b. "SD-P" Fast-Setting or "SD-F Feather Finish" underlayment by Ardex Inc. (888-512-7339).
   c. "Euco-Speed" by Euclid Chemical Company (800-321-7628).
   d. "Laticrete 220 Medium Bed Mortar" mixed with "Laticrete 3701 Latex Mortar Admix" by Laticrete International, Inc. (800-243-4788).
3. Cementitious Toppings: For concrete surfaces at locations indicated to receive concrete sealer, floor paint, or not otherwise covered by flooring material; one of the following or approved:
   a. Interior Traffic Bearing Topping System: Self-Leveling; minimum 28 day compressive strength 6,000 psi:
      1) Ardex Inc. "SD-T" Self-Leveling Self-Drying Concrete Topping."
      2) Dayton Superior "Level Topping."
      3) ProSpec "Level Set Wear Topping."
   b. Interior Traffic Bearing Topping System: Trowelable; minimum 28 day compressive strength 5,000 psi.
      1) Ardex Inc. "SD-M" Trowelable, Self-Drying, cement based, Concrete Topping"; minimum 28 day compressive strength 5,000 psi.
   c. Colors: Gray where exposed in the final work, white where floor paint will be applied as final finish.
4. Accessories: Furnish primers, patching compounds, and sand fillers as recommended by the underlayment manufacturer for the conditions of the project

D. Preparation
1. Thoroughly mix underlayment materials for each type of product in proper proportions to achieve smooth homogeneous mix, free of lumps.
2. With the exception of areas where leveling can be accomplished by use of latex underlayment, as specified in other sections, install cementitious underlayment to concrete slabs as indicated on the Drawings, and as necessary to level slabs or bring substrates to proper elevation.
3. Inspect floor to verify that demolition is complete to the point where work may progress.
4. Survey floor as necessary to set screeds and reference points, identify construction joints, and prepare for underlayment where floor does not meet specified tolerance requirements.
5. Ensure that subfloor is clean, dry, hard, sound, and free of oils, or other substance which would affect proper bonding and curing. Shotblast surface as necessary to achieve a clean surface.
6. Verify areas to be leveled are at or below final design elevation. When required, grind down high spots as necessary to meet specified tolerance requirements.

E. Application
1. Install trowelable underlayment at locations where slopes are indicated and at other locations where tapered fill is necessary to align the finished surfaces of the various floor finish materials.
2. Install self-leveling underlayment at existing concrete slab surfaces to correct slab flatness and levelness.
3. Provide cementitious toppings at locations to remain exposed in the finished work or where floor paint will be applied.
4. Set screeds, markers, and reference blocks. Set screeds at all construction and control joints to establish weakened plane joints in underlayment.
5. Install underlayments and toppings in accordance with the manufacturers' recommendations. Where subsequent finishing of the material is required, float to level surface. Do not trowel.
6. Apply primer to all areas to receive underlayment or toppings; repeat applications if necessary to achieve proper build.
7. Mix materials and pour or pump and squeegee into place to achieve appropriate thickness. Provide fill thickness as necessary to align adjacent finish flooring surfaces.
8. Cure in accordance with the manufacturer's instructions.

F. Tolerances:
1. Typical: "Flat"; level to within 1/4" in 10 feet
2. In Areas to Receive Floor Tile: "Very Flat"; level to within 1/8" in 10 feet from the required plane, with no more than 1/16" variation in 24" when measured from the high points in the surface.
3. Ramps: 1/4" per foot slope, unless indicated or specified otherwise.

G. Cleaning: As work proceeds, clean up excess materials, rubbish, and splash.

DIVISION 4 – MASONRY

Not Used

DIVISION 5 – METALS

051200 STRUCTURAL STEEL FRAMING

A. Summary:
1. Structural steel elements as indicated on the Structural Drawings.
2. Baseplate grouting
3. Priming and galvanizing of structural steel elements.

B. Submittals:
1. Shop Drawings:
   a. Indicate profiles, sizes, spacing, and locations of structural members, connections, attachments, fasteners, cambers, and loads.
   b. Indicate welded connections using standard AWS welding symbols. Include net weld lengths.

C. Certifications: Submit certification of materials with copies of mill reports for each heat of steel used.

D. Quality Assurance:
1. Unless specified or indicated otherwise, work shall comply with current AWS and AISC Standards.
2. The work of this Section is subject to testing and inspection as specified in Section 014500.
3. Use only AWS certified welders.

E. Products:
1. Steel Materials: As indicated on the Structural Drawings.
2. Accessories:
   a. Welding Electrodes: E-70 series, low hydrogen, appropriate for use.
   b. Non-Shrink Grout: ASTM C1107; non-shrink, non-metallic type; one of the following:
      1) BASF "Masterflow 713 Plus."
      2) US Spec "GP Grout."
      3) The Euclid Chemical Company "NC Grout."
3. Primers:
   a. Standard Primer: Modified alkyd; lead and chromate free; one of the following unless approved otherwise.
      1) "Azeron Primer Series 88HS" by Tnemec Company Inc. (Kansas City, MO; 816-483-3400).
      2) "Amercoat 5105" by Ameron Protective Coatings (Brea, CA; 714-529-1951).
      3) "Carbocoat 150HG" by Carboline Company (St. Louis, MO; 314-644-1000; 800-848-4645).
   b. Galvanizing Touch-up Paint: ZRC Worldwide: "Galvilite", "Cold Galvanized Compound", or approved.

F. Fabrication:
1. Fabricate structural steel items in accordance with approved shop drawings.
2. Shop fabricate in parts or sections as large as practicable.
3. Fabrication of Elements to Receive Galvanized Coatings:
   a. Fabricate in accordance with the applicable requirements of ASTM A143, A384, and A385.
   b. All welding slag and burrs shall be removed prior to galvanizing.
   c. Take care to avoid fabrication techniques which could cause distortion or embrittlement of the steel.
4. Hot Dip Galvanizing:
   a. Steel fabrications shall be galvanized in accordance with ASTM A123. Bolts, nuts, washers, and other hardware shall be galvanized in accordance with A153.
   b. Surface Finish: The galvanized coatings shall be continuous, firmly adhered, smooth, and free from defects.
   c. Locations: Provide hot dip galvanizing for all standard metal fabrications in exterior or moist conditions, unless otherwise indicated.
5. Standard Shop Primer Application:
   a. Preparation: Remove rust and scale by wire brushing, scraping, and sanding down to bare metal in accordance with SSPC-SP2 and SP3. Where SP2 and SP3 measures are insufficient, provide commercial blast cleaning in accordance with SSPC-SP6.
   b. Application: Spray apply primer in accordance with manufacturer's recommendations, mil minimum dry film thickness.
   c. Shop Primer: Shop prime all steel except:
      1) Steel encased in concrete.
      2) Surfaces to be field welded.
      3) Contact surfaces at high-strength bolts.
      4) Members to be galvanized.
      5) Surfaces to receive sprayed fireproofing.
      6) Surfaces to receive other special shop primers.

G. Erection:
1. Embedded Items: Provide anchor bolts and templates, and other items as indicated, to other Sections for installation prior to placement of cast-in concrete.
2. Temporary Shoring and Bracing: Provide as required with connections of sufficient strength to bear imposed loads. Remove temporary members when permanent members are in place and final connections are made.
3. Erect structural steel in accordance with approved shop drawings and AISC "Code of Standard Practice," Section 7.
4. Welds: AWS D1.1.
5. Cut holes by drilling only.
6. Tolerances: Maximum deviation from plumb, level, and alignment not exceed 1 to 500.
7. Base Plate Grouting: Set on leveling nuts to accurate elevations and grout solid with non-shrink grout.
8. Cleaning and Touch-Up:
   a. Clean steel of oil or other contaminants as specified under Fabrication.
   b. Clean columns, beams, girders, and other members to receive sprayed-on fireproofing free of loose rust, heavy mill scale, oil, dirt or other foreign substances prior to application of fireproofing materials.
   c. Immediately after erection, clean field welds, bolted connections, and abraded areas and touch-up factory primed surfaces with same primer as used in shop; touch-up galvanized surfaces with zinc-rich primer.

054000 COLD-FORMED METAL FRAMING

A. Summary:
1. Lightgage structural steel metal framing at exterior walls, as indicated on the at soffit and wall construction supporting storefronts, display windows, and signage eements.

B. System Description:
1. Structural Design: As indicated on the Structural drawings.
2. Configuration:
   a. Provide framing of depth indicated on the Drawings.
   b. Where stud gage is indicated on the Drawings, provide studs of indicated or heavier gage.
   c. Where stud spacing is indicated on the Drawings, provide additional studs or closer spacing as necessary to meet design requirements.
   d. In addition to cold formed metal framing, provide additional structural steel members as required to support the loads imposed.

C. Submittals:
1. Shop Drawings:
   a. Indicate component details, framing openings, bearing, anchorage, loading, temporary bracing, welds, type and location of mechanical fasteners and accessories or items required of other work for complete installation.
   b. Indicate framing layouts.

D. Quality Assurance:
1. The work of this section is subject to testing and inspection as specified in 014500.
2. Use only AWS certified welders approved by the jurisdictional code authorities.

E. Components:
1. Cold Formed Light-gage Steel Framing: ASTM A653; types as indicated on the structural drawings; G60 galvanized coating.
2. Screws: ASTM C954; self-drilling, self-tapping: pan head; galvanized or fluoropolymer coated steel; as indicated on the structural drawings.
3. Zinc Rich Touch-up Paint: ZRC Worldwide "Galvilite", "Cold Galvanized Compound", or approved.

F. Installation:
1. Install lightgage structural framing in accordance with ASTM C1007, unless indicated or specified otherwise, and as indicated on the Drawings.
2. Screw or weld each joint. Welds shall be in accordance with AWS D1.3.
3. Metal framing members shall be saw or shear cut. No torch cutting is permitted.
4. Construct corners with a minimum of 3 studs per corner.
5. Frame both sides of expansion and seismic joints. Do not bridge joints with system components or accessories.
6. Provide framing as required to form solid backing for all edges of sheathing, and trim accessories.
7. Tolerances:
   a. Plumbness: Plumb within 1/8 inch in 10 feet.
   b. Location: Located within 1/4 inch of the required location.
   c. Alignment: Stud and runner faces to receive finish materials shall not vary greater than 1/8 inch from the required plane, with no abrupt jogs or breaks in plane.
   d. Level: Level within 1/8 inch in 10 feet.
8. Erect studs in one piece full length. Splicing and wire tying of framing components shall not be used.
9. Touch-up field welds and scratched or damaged galvanizing with zinc rich paint.
10. Attach cross studs or furring channels to studs for attachment of wall mounted items.
11. Install framing between studs for attachment of electrical boxes and other mechanical and electrical items.

055000 METAL FABRICATIONS

A. General:
1. Summary:
   a. Miscellaneous metal fabrications not specified in other Sections.
   b. Formed metal clad fabrications at storefront.
   c. Formed metal cladding for panels, and standing and running trim.
   d. Aluminum trim
   e. Metal corner guards.
   f. Unistrut metal framing and threaded rod, when indicated on the Drawings.
2. Related Sections: 064000 - Architectural Woodwork: Substrate for clad panels and trim.
3. Quality Assurance:
   a. Fabricator Qualifications: Minimum of 3 years experience in high quality ornamental metal work of the type and scope specified.

B. Materials:
1. Steel Plate, Bars, Shapes: ASTM A36.
2. Tubes: ASTM A500 or A501.
3. Pipe: ASTM A53, seamless, Type S, plain end; schedule 40 unless indicated otherwise.
4. Bolts and Nuts: ASTM A307
5. Sheet: ASTM A1008.
6. Galvanized Steel: ASTM A653; G90 galvanized finish; 20 gage unless noted otherwise.
7. Aluminum:
   a. Extrusions: ASTM B221.
   b. Sheet: ASTM B209.
8. Interior Primer: Modified alkyd type; lead and chromate free; gray or white color.

C. Products:
1. Unistrut: Unistrut Corporation, Wayne, MI (800/521-7730) "P1000 Series" is standard for approval; 12 gage unless indicated otherwise on the structural drawings, manufacturer's standard pre-galvanized finish; submit alternate products for approval.
   a. Provide compatible matching fittings for complete installation as indicated on the Drawings.
2. Threaded Rod: ASTM A575, and A576; threaded hot rolled steel; sizes as indicated.
3. Metal Corner Guards:
   a. Corner Guards in Public Spaces (provide one of the following):
      1) Custom fabricate Corner Guards as specified
      2) Product Manufacturer: Stylmark, Inc. (Minneapolis, MN; 800-328-2495).
      3) Angles: Extrusion No. "110165"; 1 inch x 1 inch x 1/16" thick.
      4) Factory Lengths:
         a) 4'-2" for finishing; custom cut on site to fit from top-of-base to top of wainscoting, or from finish floor to 48" high, unless indicated otherwise on the Drawings.
         b) Paint hook perforations must be removed from ends of angles at install.
      5) Finish: Custom light gray powder coat finish to match **MT-3**.
      6) Installation: Construction adhesive, VHB Tape or screw attachment as selected by the Architect.
         a) When screw attachment method is used, provide oval head countersunk screws painted to match corner guards. Drill screw holes in corner guards prior to installation to accept countersunk screws. Do not damage finish.
   b. Corner Guards in Back of House Spaces:
      1) Manufacturer: Retail Specialty, Inc. (Shelby TWP.,MI; 586-566-7716); or approved.
      2) Stainless Steel Corner Guards:
         a) 18 ga; Type 420 stainless steel; custom size; 1-1/2 inch wings with returned edges; undrilled for adhesive attachment.
         b) Length: 48 inches
      3) Finish: Satin finish #4;
      4) Installation:
         a) Construction adhesive.
         b) Install components plumb and level and in strict accordance with the manufacturer's recommendations.
         c) Install corner guards with bottom of guard in alignment with top of base. Where trimming is required, make cuts neatly and square; ease burrs and sharp corners.
4. Metal Clad Panel and Trim Cleats: Monarch Metal Fabrication (Bohemia NY, 631-750-3000), "Monarch Standard Z-Clip", "MF375", installed as indicated and with fasteners recommended by the clip manufacturer.
5. Additional fasteners as indicated on the Structural Drawings, and as required for a complete installation.
6. Exterior and Interior Extruded Aluminum Trim: Extrude-a-Trim, Inc. (888-561-3822; www.extrude-a-trim.com); channel shapes in size and configuration as indicated on the Drawings, 1/16 inch minimum thickness; satin finish suitable for field painting in accordance with Section 099000, or provide powder coated shop finish as indicated on the Drawings.
7. Adhesive: Commercial grade construction adhesive, interior and exterior rated; suitable for job conditions.
8. Very High-Strength Structural Bonding Tape: 3M, "VHB Tape"; double stick, width as required.

D. Fabrication:
1. Accurately fabricate work to the configurations indicated; fit to field conditions.
2. Fabricate with clean lines, and free of bends and twists. Curved surfaces shall have smooth and uniform radii. Use material in sufficient thickness so that flat surfaces form true planes, free from oil canning.
3. Leave no open joints, except where indicated or required for expansion and contraction. Exposed joints shall be uniform, straight, and hairline.
4. Square edge returns with eased corners, at all wall panel and trim edges; weld and grind smooth prior to finishing.
5. Welds shall have sufficient strength to withstand the loads applied.
6. Unless indicated otherwise, provide concealed fasteners wherever possible. Where not possible, exposed fasteners shall match material and finish of adjacent finish materials. Fasteners shall be approved by the Architect.
7. Use compatible materials, or provide isolation of dissimilar materials.
8. Material thicknesses indicated are minimum. Provide heavier material as necessary to meet the specified fabrication requirements.
9. Items to be Concealed from View: Fabricate as detailed; ease sharp edges. Furnish unfinished unless otherwise indicated.
10. For items to be exposed to view or subject to contact, grind welds smooth and level with adjacent surfaces; remove all burrs from cut edges. Fill imperfections with body putty as necessary for a smooth even finish.

E. Finishes: As indicated on the Drawings
1. Field Applied Finishes: Paint finish in accordance with Section 099000.
2. Shop Finishes:
   a. Elements to Receive Galvanized Coatings:
      1) Fabricate in accordance with the applicable requirements of ASTM A143, A384, and A385.
      2) Remove welding slag and burrs prior to galvanizing.
      3) Surface Finish: The galvanized coatings shall be continuous, firmly adhered, smooth, and free from defects.
   b. Powder Coat: Shop applied polyester or fluoropolymer powder coating in compliance with AAMA 2603 for interior locations and AAMA 2605 for exterior locations, custom color as indicated on the Drawings. Coordinate with Owners fixture vendor for product and color.

F. Installation:
1. Unless indicated otherwise, install items plumb and level. Install elements accurately in the positions indicated.
2. Support work rigidly in position. Provide reinforcing anchors, and backing as detailed, and as otherwise necessary for secure attachment.
3. Touch-up all surfaces damaged during installation. Patch all welds and damage marks with matching primer.
4. Install metal fabrications in accordance with applicable requirements specified for fabrication.
5. Isolate metal fabrications from dissimilar materials.
6. Aluminum Trim Installation:
   a. Install aluminum trim with adhesive or VHB Tape; no exposed fasteners.

G. Installation for Unistrut:
1. Coordinate layout with Landlord requirements; review overhead support locations with the Landlord prior to attempting installation.
2. Install items plumb and level from overhead structural supports approved by the Landlord.

DIVISION 6 - WOOD AND PLASTIC

061000 ROUGH CARPENTRY

A. General
1. Section includes
   a. Blocking.
   b. Sheathing.
   c. Plywood terminal back boards.
2. Quality Assurance:
   a. Regulatory Requirements: Work shall conform to/ meet or exceed the requirements of all applicable codes, ordinances, laws, regulations, safety orders, and directives from authorities having jurisdiction over the work.

B. Products:
1. Dimension Lumber:
   a. Lumber shall be manufactured in accordance with PS 20, and shall be stamped and graded in accordance with SPIB, WWPA, WCLIB, or NLGA grading rules.
   b. Moisture Content: Kiln dried to 19% maximum moisture content, except for material whose least dimension is 4 inches thick or greater.
   c. Species: Southern Pine, Hem-Fir, Spruce-Pine-Fir (SPF), or Douglas Fir Larch, unless indicated or specified otherwise.
   d. Architectural Lumber Grades: Unexposed non-structural wood framing and blocking indicated on the Architectural Drawings shall be graded as follows:
      1) Blocking: "Utility - Light Framing," or better.
2. Panel Materials:
   a. Miscellaneous Sheathing: APA Rated Sheathing; CD grade; Exterior; plywood or oriented strand board, unless approved otherwise; thicknesses as indicated.
   b. Terminal Backboards: APA AC grade exterior; fire retardant treated.
3. Accessories:
   a. Fasteners:
      1) Hot-dipped galvanized steel for exterior, high humidity locations.
      2) G-185 galvanized coating or stainless steel fasteners at treated wood locations.
4. Wood Treatment:
   a. Wood Preservative (Pressure Treatment):
      1) Preservative treat all wood in contact with concrete, masonry, and moist conditions. Site treat sawn ends with preservative treatment.
      2) Preservative treat all wood and plywood at roof construction or other wood in moist conditions. Site treat sawn ends with preservative treatment.
      3) For above ground use, use AWPA certified Ammonium Copper Quaternium (ACQ) or Copper Hydroxide Sodium Dimethyldithiocarbamate (CDDC) waterborne preservative with 0.25 pounds per cubic foot of wood retention.
      4) Treated wood shall have a maximum moisture content of 19%.
      5) Treated wood shall bear the quality stamp of an inspection agency approved by the jurisdictional code authorities.
   b. Fire Retardant Treatment (At Types I and II Construction only):
      1) Fire retardant treat all interior concealed lumber and plywood, and other wood as indicated or specified. Provide exterior fireproofing at rooftop blocking, nailers, curbs, sheathing, and other locations subject to wetting during construction operations.
      2) All fire retardant treated wood materials shall bear a UL "FR-S" label, or a label from an approved inspection agency certifying that the material meets the requirements of AWPA C-20 Type A for lumber and AWPA C-27 Type A for plywood.
      3) Treated lumber shall be kiln dried to a maximum moisture content of 19%; treated plywood shall be kiln dried to a maximum moisture content of 15%.
      4) Approved Products:
         a) Interior Fireproofing: Clear finish product, Hickson Corporation "Dricon," Hoover Treated Wood Products "Pyro-guard," or Kopper Performance Chemicals "FirePRO".

C. Installation:
1. Blocking:
   a. Install wood blocking to receive mechanical fasteners for support of electrical fixtures and equipment, cabinets, casework, doorstop plates, wood base, wainscots, coat hooks, and all other wall and ceiling mounted components, unless specified otherwise.
   b. Backing:
      1) Plywood backing shall be used in lieu of blocking at locations of wall-mounted standards, shelving and counters.
      2) Backing shall be mounted over face of studs beneath gypsum board and shall be continuous over entire plane of wall; 1/2 inch thickness.
      3) Secure backing with all edges on firm bearing.
2. Sheathing:
   a. Secure sheathing with edges on firm bearing. Provide solid edge blocking between sheets.
   b. Fastening shall be in accordance with code requirements, unless indicated otherwise. Use screws when fastening into metal lightgage metal framing.
   c. Allow 1/8 inch spacing at ends and edges between panels, unless otherwise recommended by panel manufacturer.
3. Plywood Terminal Backboards:
   a. Provide fire retardant treated plywood terminal backboard where indicated on the Drawings.
   b. Mechanically attach fire retardant treated plywood over gypsum board directly to metal studs.

064000 ARCHITECTURAL WOODWORK

A. Summary:
1. Wood standing and running trim.
2. Metal clad panels and trim.
3. Installation of miscellaneous BOH casework furnished by the Owner.

B. References:
1. Architectural Woodwork Institute / Architectural Woodwork Manufacturers Association of Canada / Woodwork Institute: Architectural Woodwork Standards (AWS), Current Edition.

C. Quality Assurance
1. Qualifications of Installers: Use only journeyman finish carpenters who are thoroughly trained and skilled in the work, and who are completely familiar with the materials and quality standards specified. No allowance will be made for lack of skill on the part of workmen.

D. Materials:
1. Lumber:
   a. Moisture Content: In accordance with AWI recommendations
   b. Concealed Framing Lumber: AWI Grade II pine, fir, hemlock, or other species as approved.
   c. Trim for Opaque Finish:
      1) Defects: Limit in accordance with AWS construction grade.
      2) Species: Natural birch, maple, yellow poplar, or other approved closed grain hardwood.
   d. Fire retardant rating: As indicated on the drawings.

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Seal:

A Project for:

JD SPORTS #11425
LAS AMERICAS PREMIUM OUTLETS
4155 CAMINO DE LA PLAZA SPACE 0448A
SAN DIEGO, CA 92173

PORTFOLIO REFERENCE ONLY

Client:

JD SPORTS

3308 N. MITTHOEFFER ROAD
INDIANAPOLIS, IN 46235

SPECIFICATIONS

Sheet #:

A00.6

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2. Sheet Panels:
   a. Medium Density Fiberboard (MDF): ANSI A208.2 Class MD (medium density) formaldehyde free.
   b. Fire Retardant MDF: Sierra Pine Ltd. (800-676-3339) "Medite FR2"; ANSI A208.2 Class MD; fire retardant treated to a flame spread of 25 when tested in accordance with ASTM E84.
   c. Fire retardant rating: As indicated on the drawings.
   d. Plywood for Interior Applications (Concealed): Softwood veneer plywood, APA grade stamped; B-C EXT, or better for other applications, unless otherwise noted.
3. Metal Cladding: In accordance with Section 055000.
4. Accessories:
   a. Fasteners: Zinc plated nails and trim head screws, as appropriate.
   b. Adhesives: Products of a reputable adhesive manufacturer; types as recommended by the manufacturer for the application; invisible in the finished work.
   c. Filler: Fabricator's standard non-staining sandable filler; color match to veneer for application at transparent finished surfaces.
5. Finish: As specified in Section 099000, and as indicated on the Drawings.
6. Fire Retardant Treatment:
   a. All fire retardant treated wood materials shall bear a UL "FR-S" label, or a label from an approved inspection agency certifying that the material meets the requirements of AWPA C-20 Type A for lumber and AWPA C-27 Type A for plywood.
   b. Approved Interior Fireproofing Products: Clear finish product, Hickson Corporation "Dricon", Hoover Treated Wood Products "Pyro-guard," or Kopper Performance Chemicals, "FirePRO".
   c. Treated materials shall be kiln dried to maximum 15 percent moisture content for plywood and 19 percent for lumber.

E. Fabrication
1. Standing and Running and Trim: Comply with AWI requirements for "custom" grade fabrication.
   a. Shop cut and mill all lumber to the shapes indicated.
   b. Shop fit and assemble to the greatest extent possible.
   c. Mill and assemble built-up sections.
   d. Tolerances for overall assembly dimensions shall be within 1/32 of an inch.
   e. Back or kerf cut all solid wood trim greater than 2 inch in width, except terminate before exposed ends.
2. Metal Clad Trim:
   a. Profile and detailing as indicated on the Drawings.
   b. Coordinate with fabrication of metal cladding specified in Section 055000.
   c. Use Aluminum Z-Clips concealed fastening methods as specified in Section 055000 to securely attach metal clad panels and trim to substrate material.
   d. Fabricate so that metal cladding completely conceals substrate.

F. Installation:
1. Jointing: Make all joints to conceal shrinkage; miter all exterior corners; cope all interior corners, miter or scarf all end-to-end joints; install all trim pieces as long as possible, jointing only where solid support is obtained. Make no joints closer than 4 feet to corners.
2. Lengths of Material: Use random lengths. The minimum length shall be 8 feet, except where short lengths are required by installation conditions.
3. Fastening:
   a. Install all items straight, true, level, plumb, and firmly anchored in place; where blocking or backing is required, coordinate as necessary with other trades to ensure placement of all required backing and blocking in a timely manner.
   b. Unless approved otherwise, use concealed fastening methods.
   c. Where exposed fasteners are approved, fasten trim with finish nails or screws of proper dimension to hold the member firmly in place without splitting the wood. On exposed finish work, set all nails and screws and putty. Align exposed fasteners for uniform pattern; random or "shotgun" patterns will not be accepted.
4. Metal Clad Trim:
   a. Install metal clad trim straight, true, level, plumb, and firmly anchored in place.
   b. Coordinate with installation of adjacent finishes.
   c. All fastening to be concealed.
   d. Individual lengths of trim are to be installed in a manner so that joints and corners between sections are even and hairline. No substrate material to be exposed and visible.
5. Field Finishing:
   a. Sand all opaque finish wood surfaces to AWS "Custom" grade standards.
   b. Sandpaper all wood surfaces thoroughly as required to produce a uniformly smooth surface, always sanding in the direction of the grain; no coarse grained sandpaper mark, hammer mark, or other imperfections will be accepted.
   c. See Section 099000 for finishing of woodwork not finished under this Section.
6. Installation of Owner Furnished Casework:
   a. Coordinate casework installation with the work of other trades for final electrical and mechanical connections.
   b. Install all casework accurately, plumb, square, and level, and permanently secured in accurate position as indicated on the Drawings. Casework shall be scribed to adjacent surfaces.
   c. Repair to acceptable like new condition, or replace all damaged components.

066000 PLASTIC FABRICATIONS

A. Summary:
1. Decorative acrylic panels.

B. Related Sections:
1. 055000 - Metal Fabrications: Supports, substrates and related trims.
2. Division 26 - Electrical: LED backlighting.

C. Submittals
1. Make submittals in accordance Section 013300.

2. Product Data: Submit manufacturer's product data; include product description, fabrication information.

D. Delivery, Storage and Handling:
1. Deliver plastic panel fabrications, systems and specified items in manufacturer's standard protective packaging.
2. Do not deliver plastic panel fabrications, system, components and accessories to Project site until areas are ready for installation.
3. Store materials in a flat orientation in a dry place that is not exposed to exterior elements.
4. Handle materials to prevent damage to finished surfaces. Provide protective coverings to prevent damage or staining following installation for duration of project.
5. Permit panels to reach room temperature before installing.

E. Environmental Limitations: Do not install panels until ambient temperatures and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

F. Products:
1. Manufacturer: Specified in Drawings Finish Legend; Drawing Designation **DAP-1**.
   a. Engineered acrylic panel sheet.
   b. Thickness: Provide thickness as indicated on the drawings.

G. Fabrication:
1. General: Fabricate panels to designs, sizes and thicknesses indicated and to comply with indicated standards. Sizes, profiles and other characteristics are indicated on the drawings.
2. Comply with manufacturer's written recommendations for fabrication.
3. Machining: Acceptable means of machining are listed below. Ensure that material is not chipped or warped by machining operations.
   a. Sawing and routing: Select equipment and blades suitable for type of cut required.
   b. Drilling and taping: Drills and taps specifically designed for use with plastic products.

H. Miscellaneous Materials:
1. General: Provide products of material, size, and shape required for application indicated, and with a proven record of compatibility with surfaces contacted in installation.
2. Cleaner: Type recommended by manufacturer.
3. Fasteners: Use screws designed specifically for plastics. Provide threaded metal inserts for applications requiring frequent disassembly.
4. Bonding Cements: If required, use solvents or adhesives, suitable for use with product and application.

I. Installation:
1. General: Comply with manufacturer's written instructions for the installation of panels. Sizes, profiles and other characteristics are indicated on the drawings.
2. Manufacturer's shop to fabricate items to the greatest degree possible.
3. Utilize fasteners, adhesives and bonding agents recommended by manufacturer for type of installation indicated. Material that is chipped, warped, hazed or discolored as a result of installation or fabrication methods will be rejected.
4. Install components plumb, level and rigid, scribed to adjacent finishes, in accordance with approved shop drawings and product data.
5. Form field joints using manufacturer's recommended procedures. Locate seams in panels so that they are not directly in line with seams in substrates. Seam type as indicated on the drawings.

J. Cleaning and Protection:
1. Protect surfaces from damage until date of substantial completion. Repair work or replace damaged work, which cannot be repaired to Architect's satisfaction.

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

078400 FIRESTOPPING

A. General:
1. Summary: Firestopping material for penetrations in fire-rated construction.
2. System Description:
   a. Each firestopping system shall be selected to maintain fire rating of the assembly in which it used.
   b. Firestopping systems shall be resilient as necessary to accommodate differential movement between assemblies.
   c. Where firestopping is used to seal penetrations through floors with waterproof membranes, system shall be selected for compatibility with membrane material.
3. Quality Assurance:
   a. Prior to installation obtain approval from the jurisdictional code authorities for firestopping systems and applications proposed. Notify the Architect if approval cannot be obtained.
   b. Firestopping: Tested in accordance with ASTM E119, ASTM E814, or UL 1479 to meet the hourly fire ratings of the construction being sealed.

B. Products
1. Firestopping Systems:
   a. Systems meeting the requirements specified and suitable for the conditions indicated, as manufactured by one or more of the following.
      1) Metacaulk.
      2) Tremco Inc.
      3) 3M.
      4) Hilti USA
      5) W.R. Grace & Co.
   b. Electrical Box Inserts:
      1) Manufacturer: Rectorseal (Houston TX; 713-263-8001; 800-231-3345).
      2) Fire Rated Pads: "BioFireshield LECTRA-STOP"; 1/4" thick intumescent pads; sized to fit electrical boxes; classified by UL; minimum 2 hour rating.

   c. Self Contained Sealing Systems: EZ Path by Specified Technologies, Inc.,or approved. System shall permit cables to be removed and installed without adjustment, removal, or reinstallation of firestopping materials; size each assembly to accommodate 25% more cable than installed in the Project.
   d. Systems with sodium silicate shall not be used.

C. Installation:
1. Provide firestopping at mechanical, electrical, and plumbing penetrations through fire rated floors, walls, and ceilings, and other locations as indicated on the Drawings.
2. Install firestopping in accordance with the manufacturer's recommendations and as necessary to meet the specified fire rating requirements.
3. Where firestopping is used to seal around penetrations through waterproof membranes, install to maintain integrity of waterproof barrier.
4. For sealing electrical boxes, coordinate installation with Division 16. Comply with manufacturer's recommendations for preparation and installation. Install in locations as required by Code for protection of openings through fire rated partitions.
5. Cleaning:
   a. Trim excess material flush with adjacent surface.
   b. Remove spills, leave area in undamaged, clean condition.

078500 FIRE RATED JOINTS

A. Summary:
1. Requirements for fire rated assemblies at construction joints in fire-rated construction, including joints at the following locations:
   a. Where partition heads meet the underside of overhead floor or roof construction.
2. Requirements for fire rated construction joint assembly components provided in other Sections.

B. References
1. American Society for Testing and Materials (ASTM)
   a. E119 - Method for Fire Tests of Building Construction and Materials
2. Underwriters Laboratories (UL)
   a. Standard 2079 - Tests for Fire Resistance of Building Joint Systems.
3. International Building Code (IBC)

C. System Description:
1. Each fire rated construction joint assembly shall be selected to maintain fire rating of the assembly in which it used.
2. Each fire rated construction joint assembly shall be resilient as necessary to accommodate differential movement between assemblies.

D. Quality Assurance:
1. Fire Rated Construction Joint Assemblies: Successfully tested in accordance with ASTM E119, including hose stream test, to meet the hourly fire ratings of the construction being sealed.
2. Fire rated construction joint assemblies at partition heads shall have been successfully tested in accordance with the dynamic requirements of UL 2079, including hose stream test, to meet the hourly fire ratings of the construction being sealed.

E. Fire Rated Construction Joint Assemblies:
1. Metal Stud Partition Head-of-Wall Joint Assembly:
   a. System: Based on UL assemblies listed on the Drawings; select system to accommodate ±3/4 inch vertical differential movement.
   b. Basis of Design: Cemco (800-775-2362) "FAS Track DL2"; 20 gage (33 mil) track with factory installed intumescent seal; include "Fas Shaft Track DL2" for application at shaft wall assemblies and "Cemco Fas Strap" for installation of partitions against fluted metal decks; width as appropriate to flute spacing.
      1) Acceptable Option (subject to compliance with Contract Document requirements and Architect's approval):
         a) Fire Trak Corporation (Kimball MN; 800-394-9875) "Fire Trak Shadowline."
         b) Cemco (City of Industry, CA; 800-775-2362) "FireStik"; continuous angle with intumescent material adhered to 2.4 inch vertical leg; application in combination with extended leg 20 gage head track.
         c) Blazeframe Industries (Redmond, WA; 425-869-2811) "Solid Deep Leg" DLX or DLXCD as appropriate for conditions; composite track with intumescent strips. Include "Flute Cover (FC)" for installation of partitions against fluted metal decks; width as appropriate to flute spacing.
   c. Gypsum Board: As specified in Section 092900.
   d. Mineral wool packing material and void fill material per UL rated assemblies for dynamic wall head conditions as detailed in the drawings.

F. Installation:
1. Install construction joint assemblies in accordance with the fire rated assemblies listed, and as necessary to meet the specified fire rating requirements.
2. Coorcinate installation of integral components as necessary to ensure the fire rating of the assemblies.

079200 JOINT SEALANTS

A. Quality Assurance:
1. Use only skilled installers specially trained in the techniques of sealing, and familiar with the published recommendations of the manufacturers of the sealants being used.

B. Sealants:
1. Type S - Neutral Cure Silicone Sealants:
   a. Dow Corning, 790 Silicone Building Sealant, or 795 Silicone Structural Glazing and Weatherproofing Sealant.
   b. Pecora, 890 Architectural Silicone Sealant.
   c. Tremco "Spectrem 1 or 3."
2. Type PS – Multi-Component Polyurethane, Self-Leveling Type:
   a. BASF "MasterSeal SL 2," self-leveling or low-slope grade as applicable.
   b. Bostik "Chem-Calk 955SL."
   c. Pecora Corp. "Urexpan NR-200" or "Dynatrol II-SG" as applicable.
   d. Tremco Incorporated "THC-900" or "THC-901" as applicable.
3. Type C – Color-Matched Sealant (product must be from same manufacturer as tile grout):
   a. Bostik Findley, Inc. (Temecula, CA; 800-592-8558) "CeramaSeal Tub & Tile Caulk".
   b. Mapei Corporation (Deerfield Beach, FL; 888-876-2734) "Keracaulk".
4. Type A – Single Component Acrylic Sealant:
   a. Bostik "Siliconized Acrylic Latex".
   b. Pecora Corp. "Pecora AC-20."
   c. Tremco Incorporated "Tremflex 834."
5. Type SM - Mildew Resistant Silicone Sealant (USDA Approved), clear:
   a. Dow Chemical, "Dow Corning 786"
   b. GE, "SCS 1700 Sanitary"
   c. Pecora, "898NTS Silicone."
   d. Tremco Inc., "Tremsil 200."

C. Accessory Materials:
1. Primer: Non-staining type, recommended by sealant manufacturer to suit application.
2. Joint Cleaner: Non-corrosive and non-staining type, recommended by sealant manufacturer; compatible with joint forming materials.
3. Joint Filler: Closed or open cell polyethylene foam as recommended by sealant manufacturer for conditions; round profile; thickness: 130% of joint width.
4. Bond Breaker: Pressure sensitive tape recommended by sealant manufacturer to suit application.
5. Compressible Foam Sealant: Precompressed prefaced self-adhesive open cell polyurethane foam tape; "Backerseal" by Emseal Joint Systems, Ltd., or approved.

D. Preparation:
1. Clean and prepare joints in accordance with manufacturer's instructions. Remove loose materials and other foreign matter which might impair adhesion of sealant.
2. Apply masking tightly around joints to protect adjacent surfaces from excess sealant.
3. Prime as required for proper bond to substrate materials.
4. Place backing materials to achieve proper sealant width/depth ratios. Use bond breaker where required.

E. Installation:
1. Perform work in accordance with ASTM C1193, unless specified otherwise or recommended otherwise by the sealant manufacturer.
2. Sealant beads shall have a sectional width to depth ratio of 2 to 1, except that sealant type PT shall be installed full depth without backing.
3. Install Type C sealant full depth in tile expansion joints with no backer rod.
4. Tool joints concave, unless indicated otherwise. Finish free of air pockets, foreign embedded matter, ridges, and sags.

F. Protect sealant in joints subject to dirt, moisture, and traffic during the sealant curing process. Protection shall be able to resist traffic while remaining securely in position.

G. Schedule:
1. Type S: Provide at all exterior joints unless specified otherwise; standard colors as selected by Architect.
2. Type PS: Provide at all exterior horizontal joints subject to traffic and abrasion; standard colors as selected by Architect.
3. Type C: Provide at all joints in toilet room wall and floor tile, expansion joints in tile; furnish color from the manufacturer's full line of colors to match tile grout.
4. Type A: Provide at all interior joints, unless specified otherwise; standard colors to match adjacent construction.
5. Type SM: Provide at joints around countertops in Back of House (BOH) and Restrooms.

DIVISION 8 - DOORS AND WINDOWS

081113 HOLLOW METAL DOORS AND FRAMES

A. Summary:
1. Interior rolled steel doors and frames.
2. Exterior doors and frames, when indicated on the Drawings.
3. Door vision lite glass and glazing film.

B. Submittals: Submit manufacturer's published literature for doors and frames.

C. Quality Assurance:
1. Conform to requirements of ANSI A250.8.
2. Regulatory Requirements:
   a. Where required, installed frame and door assembly shall conform to NFPA 80 for fire rated class indicated.
   b. Where doors are noted with an hourly fire resistance rating, provide door and frame assemblies labeled by Underwriter's Laboratory (UL), or another testing laboratory approved by the local code authorities, to meet the hourly fire rating noted. Assemblies shall meet code requirements for positive pressure when required.
   c. Include "S" label on fire rated door assemblies located at 1 hour rated exit corridors.

D. Acceptable Manufacturers: Members of the Steel Door Institute and of the National Association of Architectural Metal Manufacturers, subject to compliance with specified requirements.

E. Materials: Steel sheet, cold rolled ASTM A366, or hot rolled pickled and oiled sheet conforming to ASTM A569, minimum 30% recycled content.

F. Doors:
1. Interior Door Construction:
   a. ANSI A250.8; seamless; minimum 18 gage face sheets.
   b. Core: Vertical steel stiffeners with sound ceadening fill between stiffeners, or resin impregnated kraft paper honey comb core.
   c. Provide continuously welded seamless edges. No plastic fillers will be accepted.
2. Exterior Door Construction:
   a. ANSI A250.8; seamless; minimum 16 gage face sheets.
   b. Core: Polystyrene or polyurethane foam core.
   c. Special Construction Requirements:
      1) Provide continuously welded seamless edges. No plastic fillers will be accepted.
      2) Close top edges of exterior doors flush with steel filler cap; seal joints watertight.
      3) Cut mortises for butts using appropriate templates; universal non-handed preparation of doors is not acceptable.
3. Hardware Reinforcements:
   a. Hinge reinforcements for full mortise hinges: minimum 7 gage.
   b. Lock reinforcements: minimum 16 gage
   c. Closer reinforcements: minimum 14 gage, 20 inches long.
4. Glass Moldings and Stops
   a. Fabricate glass trim from 24 gage steel.
   b. Install trim into the door as a four sided welded assembly with mitered, reinforced and welded corners.
   c. Trim: Identical in appearance on both sides of the door.
5. Fabrication:
   1) In accordance with ASNI A250.8.
   2) Edge Seam: Full height mechanical interlock.
   3) Bevel door latch edges 1/8 inch in 2 inches.
   4) Cut mortises for butts using appropriate templates; universal non-handed preparation of doors is not acceptable. Install reinforcements, welded in place.
   5) Projection weld hinge and lock reinforcements to the edge of the door; provide adequate reinforcements for other hardware as scheduled.
   6) Reinforce top and bottom of doors with 14 gage channels, welded to both face panels.
   7) Install glass moldings into the door as a four sided welded assembly with mitered, reinforced and welded corners.
   b. Vision Lites:
      1) Tempered Glass: ASTM C1048, FT; glass which has been heat treated to strengthen glass in bending to not less than 4 times the annealed strength; certified safety glass in accordance with ANSI Z97.1.
      2) Glazing Film:
         a) 3M Company (St. Paul, MN; 888-364-3577) "FASARA" Luce, White, SH2FGLU glazing film.
   c. Sizes: Dimensions on Door Schedule refer to frame opening sizes to the rabbet.
   d. Thickness: 1-3/4 inch, unless otherwise scheduled or detailed.
   e. Clearances: Fabricate for 1/8 inch clearance at head and each jamb, 1/8 inch between pairs of doors, 3/8 inch clearance from hard surface finish floor, 3/4 inch from hard surface beneath doors at openings indicated to receive carpeting, and 3/16 inch from hard surface top of threshold.

G. Frames:
1. Design: Double rabbet, unless indicated otherwise; fully welded.
2. Gages:
   a. Exterior Frames: Minimum 14 gage.
   b. Interior Frames: Minimum 16 gage for frames of door openings up to and including 4 feet in width; 14 gage for frames greater than 4 feet in width.
3. Accessories: Furnish necessary anchors for jambs, heads, and sills of assemblies.
4. Frame Hardware Reinforcements
   a. Mortise hinge reinforcement: minimum 7 gage: Furnish high frequency hinge reinforcement for top hinge on all exterior, cross corridor, and stairwell frames, in accordance with SDI 111-H.
   b. Strike reinforcements: minimum 16 gage.
   c. Closer reinforcement: minimum 14 gage.
5. Fabrication
   a. Fabricate frames to profiles and with throat dimensions as indicated.
   b. Fabricate exterior frames with 1 1/4 inch mounting flanges and 1 inch backbends where indicated.
   c. Cut mortises for butts strikes and other hardware, as scheduled, using appropriate templates. Install reinforcements. Projection weld hinge and strike reinforcements to the door frame. Provide adequate reinforcements for other hardware as scheduled.
   d. Frames shall be die mitered with integral tabs.
      1) Frames shall be shop assembled; continuous face weld joint between the head and jamb faces, at meeting mullions and between other frame members along their length either internally or externally. Grind, prime paint, and finish smooth face joints with no visible face seams.
      2) Provide two temporary steel spreaders (welded to the jambs at each rabbet of door openings) on welded frames during shipment. Remove temporary steel spreaders prior to installation of the frame.
      3) Ship frame assemblies to the jobsite completely welded. Field joints permissible only when the size of the total assembly exceeds shipping limitations. Fabricate oversized frames in sections designated for splicing in the field. Provide frames with joint reinforcements 14 gage, 8 inch long. Field weld joint reinforcement inside and tack weld outside joint at both faces, grind, and finish smooth and uniform in appearance, after installation.
   e. Provide metal plaster/mortar guards for all mortised cutouts at frames indicated for installation in masonry construction.
   f. Electrical Requirements (when indicated on the Drawings): Coordinate all electrical requirements for doors and frames. Make provisions for installation of electrical items arranged so that wiring can be readily removed and replaced.

      1) Provide cutouts and reinforcements required for door frames to accept electric components.
      2) Frames with Electrical Hinges: Weld UL listed grout guard cover box over center hinge reinforcing. Top or bottom hinge locations are not permitted.
      3) Provide cutouts and reinforcements required to accept security system components, where applicable.

H. Finish:
1. Interior Frames: Manufacturer's standard rust-inhibitive primer.
2. Exterior Frames: Hot dip galvanized zinc coating conforming to ASTM A653 A60 (.60 oz/sq ft. coating weight), with manufacturer's standard primer to receive coating system specified in Section 099000.

I. Installation of Frames:
1. Install frames in accordance with SDI-105 and in accordance with labeling requirements.
2. Coordinate with wall construction for anchor placement.
3. Install accessories.
4. Installation Tolerances; Maximum Diagonal Distortion: 1/16 inch measured with straight edge, corner to corner.
5. Door and hardware installation is specified in Section 087300.
6. Door Vision Lite Glazing Film:
   a. Install screening film to #2 surface of door vision lite
   b. Clean glass and remove labels prior to installation of screening film.
   c. Comply with manufacturer's instructions for preparation and installation of screening film.
   d. Cut film accurately to extend full height and width of vision lite without visible gaps at edges. Cut film straight at butt joints so that film does not lap over sealant joints. Installed free of air bubbles, scratches, splices, and other defects which would impair clarity.

083100 ACCESS DOORS AND PANELS

A. Summary: Fire-resistive, and non-rated access doors, frames, and accessories.

B. Quality Assurance:
1. Where access doors are installed in construction with an hourly fire resistance rating, provide door and frame assemblies labeled by Underwriter's Laboratory, Warnock Hersey, or any other testing laboratory approved by the local code authorities to meet the requirements of the fire rated assembly.

C. Acceptable Manufacturers:
1. Milcor, Inc., Lima, OH.
2. J.L. Industries, Bloomington, MN.
3. Karp Associates, Inc., Maspeth, NY.
4. Nystrom, Minneapolis, MN

D. Door Types:
1. Fire Resistive Metal Access Door:
   a. Flush type design.
   b. 16 gage frame; min. 20 gage steel welded door panel insulated with non-combustible filler.
   c. Self-closing and self-latching, with interior latch release.
   d. Fully concealed pin-type hinges, or continuous piano hinge; 175 degree opening.
   e. Ring turn latch.
2. Non-rated Concealed Drywall Access Door:
   a. Recessed type design.
   b. Minimum 16 gage steel frame; minimum 16 gage steel door panel recessed to receive drywall.
   c. Integral attachment flange and drywall bead for flush installation.
   d. Fully concealed pivot rod hinge.
   e. Latches: Screw driver operated cam latch.
3. Non Rated Ceiling Access Panel at Sales Floor areas:
   a. Acceptable Manufacturer: One of the following.
      1) Intex Forms (Gilroy CA; 408-846-5667). www.intexforms.com
      2) GC Products (Sacramento CA; 800-636-8864; 916-349-2726) www.gcproductsinc.com
   b. Flush design, similar to Intex Forms "Glass Fiber Reinforced Gypsum Access Panel."
   c. Cast gypsum frame and lay in panel; 1/8 - 3/16 inch shell thickness minimum; square corners.
   d. Integral attachment flange and drywall bead for flush installation.
   e. No hardware.
   f. Size: 18" x 18", unless otherwise indicated.

E. Installation:
1. Provide access doors in the locations indicated, and for access to balancing and fire dampers, trap primers, valves, fans, terminal units, and other equipment requiring periodic inspection through finished walls or ceiling, whether indicated or not.
2. Coordinate access requirements with other trades.
3. Provide concealed drywall access doors unless fire rated access doors are required because of fire rated construction.

084226 ALL-GLASS STOREFRONT SYSTEM

A. Summary:
1. All-glass storefront system.
2. Structural engineering for attachment of glass storefront systems

B. System Description:
1. Bidder Design in accordance with Section 016000.
2. Design anchorage for all-glass storefront system.

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Seal:

A Project for:

JD SPORTS #1425
LAS AMERICAS PREMIUM OUTLETS
4155 CAMINO DE LA PLAZA SPACE 0448A
SAN DIEGO, CA 92173

⚠

PORTFOLIO REFERENCE ONLY

Client:
JD SPORTS

3308 N. MITTHOEFFER ROAD
INDIANAPOLIS, IN 46235

SPECIFICATIONS

Sheet #:
A00.7

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3. Provide attachments to resist code-required dead and live loads, including a uniform 10 PSF uniform load and wind and seismic loads in accordance with code requirements, including local amendments.

C. Glass Performance Criteria:
1. Stress Analysis:
   a. The glass manufacturer shall perform stress analysis to determine the proper glass thickness and treatment required to resist the structural and thermal stresses for each glazing condition (based on the worse case for each condition). All costs in conjunction with the analysis shall be borne by the Contractor.
   b. Should the stress analysis show that glass of greater strength or thickness is required over that scheduled, then all such changes shall be included in the bid price. The Contractor shall not be entitled to any claims for additional compensation for failure to meet this requirement.
   c. Submit all documentation to the glass manufacturer as required to obtain glass manufacturer's stress analysis.
2. Structural Stress Criteria:
   a. Vertical Glazing: Design glazing to withstand positive and negative loads.
   b. Center Deflection: Maximum deflection shall not exceed L/175 or 3/4 inch, whichever is less.

D. Submittals:
1. Shop Drawings:
   a. Indicate materials, thicknesses, finishes, dimensions, methods of joining and anchoring, and relationship to adjacent construction.
   b. Include typical and special details drawn at full scale.
   c. Include designing engineer's stamp.
2. Product Data:
   a. Manufacturer's product data on rails and stationary fittings.
   b. Glazing sealant.
3. Certification: Submit certification that the all-glass storefront system has been designed in accordance with the specified requirements.

E. Quality Assurance:
1. Fabricator Qualifications: Minimum of 5 years experience in the fabrication and finishing of all-glass entrance system; able to show evidence of successful completion of work similar to the work of this contract.
2. Regulatory Requirements:
   a. All-glass entrance system shall meet the requirements of the jurisdictional code authorities.
   b. Safety Glass Standard: Comply with the requirements of the jurisdictional code authorities.
   c. Furnish all calculations, engineer's stamps, drawings, and other items required by the code authorities to obtain approval of the installation.
3. Comply with pertinent recommendations in the GANA "Manual of Glazing."
4. Structural design of the all-glass entrance system shall be by a Structural Engineer Licensed to practice in the State where the Project is located.

F. Materials and Components:
1. Glass:
   a. ASTM C1036, Type I, class 1(clear), quality q3 glazing select; 1/2 inch thickness, unless indicated, required by stress analysis, or approved otherwise; fully tempered in accordance with ASTM C1048; certified safety glass in accordance with ANSI Z97.1.
   b. No tong marks, or other fabrication imperfections allowed in the finished work.
   c. Edge Treatment:
      1) Glass Edges to be Exposed in the Finished Work: Pencil edge, polished; approximate 1/8-inch chamfer.
      2) Glass Edges Indicated for Exposed Silicone Sealant Treatment: Ground edge, seamed.
   d. Unless otherwise approved by the building official, provide manufacturer's label on each light, indicating type and thickness of glass.
2. Glass Partition Glazing Materials:
   a. Insert Setting Blocks: Neoprene; 70-90 Shore A durometer hardness.
   b. Spacers for Glass Partitions: Spring clip design.
   c. Wet Glazing Sealant: Dow-Corning "999A," clear.
3. Storefront Rails, Channels and Stationary Fittings for Glass Storefront Panels:
   a. Basis of Design Manufacturer: CR Laurence (800-421-6144) or approved subject to compliance with Contract Document requirements and Architect's approval of finish and conformance to design intent.
   b. Bottom Rails: CRL SRBSPT3812CL" 6 inch, Custom Color and Length Square Sidelight Rails: end caps to match; setting blocks and gaskets.
   c. Glazing Channels: CRL "UCPT3812CL"; Custom Color and Length U-Channel; end caps to match; setting blocks and roll-in top load gaskets.
   d. Mall Front Glazing Clamps at Open Butt Joints; CRL, type and profile as indicated on the Drawings; custom finish to match rails.
   e. Powder Coat Finish: Shop applied polyester or fluoropolymer powder coating in compliance with AAMA 2603 for interior locations, and AAMA 2605 for exterior locations, custom color as indicated on the Drawings. Coordinate with Owners fixture vendor for product and color.

G. Fabrication:
1. Tempered and Heat Strengthened Glass:
   a. Tempered Glass: ASTM C1048, FT; glass which has been heat treated to strengthen glass in bending to not less than 4 times the annealed strength; certified safety glass in accordance with ANSI Z97.1.
   b. Heat Strengthened Glass: ASTM C1048, HS; glass which has been heat treated to strengthen glass in bending to not less than 2 times annealed strength.
   c. Fabricate tempered and heat strengthened glass units so that principle distortion will be in the horizontal direction in the finished installation.
   d. Unless otherwise approved by the building official, provide manufacturer's label on each light, indicating type and thickness of glass.

   e. Comply with IBC paragraph 2406.2 requirements for identification and labeling of safety-glazing materials in hazardous locations subject to human impact loads.
   f. Fabrication Process: Horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as installed, unless otherwise indicated.

H. Glass Panel Installation:
1. General: Install all members as detailed with adequate provision for settling, expanding, and contracting to occur without breaking glass.
2. Setting Blocks: Place setting blocks in shoes for support of glass panels. Place at quarter points of each panel, unless approved otherwise.
3. Set glass tightly in position with proper clearances in accordance with the referenced standards. Provide spacers to maintain proper clearance between glass face and glazing channels.
4. Secure glass panels to bottom rail shoes and top U channels as recommended by the manufacturer. Install glazing clamps where indicated. Wet glaze or cap with manufacturers glazing gaskets.
5. Cleaning:
   a. Clean excess glazing materials from adjacent finished surfaces.
   b. Remove labels after work is completed.

087100 DOOR HARDWARE

A. Install door hardware furnished by the Owner

B. As scheduled on the Drawings.

087300 DOOR AND HARDWARE INSTALLATION

A. Installation:
1. Mark each item of hardware as to description and location of installation in accordance with approved hardware schedule.
2. Install each hardware item in compliance with manufacturer's instructions. Wherever cutting and fitting are required to install hardware onto or into surfaces which are later to be painted or finishes in another way, install each item completely and then remove and store in a secure place during the finish operation. After completion of the finishes, reinstall each item. Do not install surface mounted items until finishes have been completed on the substrate.
3. Hardware Mounting Heights: Mounting heights are based on recommendations of the National Builders Hardware Association (NBHA). Generally, mount hardware units at the following locations on each door or door opening, except as otherwise indicated on the Drawings or required to meet code and handicapped requirements. Verify any conflicts with location of other hardware for proper clearances for installation prior to cutting or milling for specified hardware. Notify Architect immediately if such conflicts are determined.
   a. Latch and Locksets: 38 inches finish floor to center of knob.
   b. Dead Locks: 48 inches finish floor to center of cylinder.
   c. Emergency Exit Cross Bar: 38 inches from finish floor.
   d. Push/Pull: 42 inches finish floor to centerline of push/pull bar set.
   e. Push Plate: 1/2 inch from edge of door; 42 inches to center line of plate, except 45 inches where independent of the push/pull.
   f. Kick Plates: Mount at bottom edge of door and 1/2 inch from outside edge of door.;
   g. Top Hinge: 5 inches from top of door to top of hinge.
   h. Bottom Hinge: 10 inches from finish floor to bottom of hinge.
   i. Center Hinge: Equal distance between top and bottom hinges.
   j. Multiple hinge locations shall be equally spaced between top and bottom hinge.
   k. Wall Stops: Centerline of knob or point of first contact.
   l. Thresholds: Mount at exterior doors such that slope breakpoint on threshold is at lead edge of door. Set in full bed of caulking material.
   m. Clcsing: Mount for maximum degree of opening obtainable considering other hardware provided and opening conditions. Size closers for conditions and code requirements.
   n. Trim/Protection: Kickplate shall be 2" LDW x height indicated.
   o. Other hardware items shall be located as recommended by NBHA, or as may be shown or required otherwise.
4. Adjusting and Cleaning: Adjust and check each operating item of hardware and each door to ensure proper operation. Clean door and hardware.

DIVISION 9 FINISHES

092200 LIGHTGAGE METAL SUPPORT FRAMING

A. Summary:
1. Interior partition, ceiling, and soffit construction, not covered by specified in Section 054000.
2. Structural design oflightgage metal support framing systems.

B. System Description:
1. Structural Design:
   a. Structural design oflightgage metal framing systems shall be furnished by the Contractor.
   b. Select framing systems, gages, supports, bracing, and connections as necessary to meet the structural requirements specified.
   c. Partition framing shall conform to the widths indicated, unless approved otherwise. Provide thicker gages and decreased stud spacing as necessary to meet the design requirements.
2. Design Loads:
   a. Interior Ceiling Assemblies: 5 pounds per square foot uniform live load, plus dead loads.
   b. Interior Partitions: 5 pounds per square foot uniform live lateral load.
3. Deflection Requirements: Maximum of 1/240 the span, except maximum 1/360 at tile.

C. Code Requirements:
1. Provide assemblies meeting the hourly fire ratings indicated and specified. Assemblies shall been tested in accordance with ASTM E119, and shall be approved by the local jurisdictional code authorities. Coordinate installation of other materials which are a part each assembly.

2. Fire rating requirements take precedence over the construction requirements indicated. In the event of conflict, notify the Architect, and do not begin construction in the area of conflict until the conflict has been resolved.
3. Provide all calculations, drawings, product data, and other verification as required by the jurisdictional code authority to obtain approval of the lightgage metal framing installation.

D. Materials:
1. Light Gage Metal Framing: ASTM C645; galvanized; provide "C" shaped studs, U shaped runners, hat and "Z" shaped furring channels, and other sizes and shapes as necessary. Minimum 25 gage, except furnish thicker gages as required to meet deflection requirements.
2. Cold Rolled Channels: Rust inhibitive paint coating; sizes in accordance with ASTM C754.
3. Screws: Self-tapping; low profile head.
4. Proprietary Ceiling Suspension System:
   a. Manufacturer:
      1) Basis of Design: Chicago Metallic (Chicago, IL Los Angeles, CA; 800-323-7164).
      2) Acceptable Options (subject to compliance with these Contract Documents):
         a) USG Interiors, Inc. (Chicago, IL; 800-874-4968).
         b) Armstrong (800-207-2321).
   b. Suspension System: Similar to System 650, or 670; ASTM C635 heavy duty classification.
      1) Furring Runners: Manufactured from 0.020 inch thick steel 1-3/8 inch wide with knurled face by 1-1/2 inches high; factory punched cross tee slots, hanger holes, and non-directional bayonet end tab couplings.
      2) Furring Tees: Manufactured from 0.020 inch thick I-3/8 inch wide with knurled face by 1-1/2 inches high; factory punched cross tee slots and hanger holes.
      3) Furring Cross Channel: 0.020 inch thick steel; 1-3/8 Inch wide with knurled face by 7/8 inches high by 48 inches long with straight locking end tabs.
      4) Cross Tees: 0.020 inch thick steel 15/16 inch wide by 1-1/2 inches high; with staked-on dip end tab couplings, factory punched cross tee slots.
      5) Moldings: Manufacturer's standard.
5. Partition Head Compensating Channel (Non-Rated): Design for minimum ±1/2 inch deflection. Profiles as indicated; one of the following.
   a. 20 gage deep leg track; 2 inch legs.
   b. Slip Track Systems Inc. (Anaheim, CA; 714-761-1921) "SLP-TRK."
6. Other Framing Materials: Furnish in accordance with ASTM C754.

E. Partition Framing:
1. Runners:
   a. Secure runners with fasteners at maximum 24 inches oc.
   b. At concrete floors, use powder driven fasteners or drilled in concrete anchors.
   c. Top Runner: Use proprietary compensating channel or deep leg track at Contractor's option, as necessary to accommodate building deflection.
   d. Align to tolerances specified.
2. Unless indicated otherwise, install studs vertically at 24 inches oc, and not more than 2 inches from abutting construction, at each side of openings, and at corners. Studs for support of stone tile shall be installed at 16 inches o.c.
3. Fit runners under and above openings; secure intermediate studs at spacing of wall studs.
4. Brace partition framing system and make rigid.
5. Install double studs continuous from floor to ceiling track at the jamb of each door frame and cased opening. Studs shall be the same gage as the adjacent studs, but no less than 20 gage. Provide diagonal steel stud bracing to structure at each jamb at partitions which do not extend to structure.
6. Coordinate erection of stud system with requirements of door and window frames, fire extinguisher cabinets, recessed toilet accessories, access doors, and other construction within mounted partition construction.
7. Coordinate the installation of framing with the gypsum board installer to ensure support at all board edges. Provide framing immediately either side of expansion joints.
8. Stud splicing not permissible.
9. At non-load bearing full height partitions subject to compression caused by overhead structural deflection, cut studs 1/2 inch short from full height, except as otherwise indicated. Do not rigidly connect stud to top runner.
10. Stud Bridging:
    a. At interior partitions greater than 4 feet in length, and with rigid facing material on one stud flange only, provide 3/4" bridging channels in horizontal rows at a maximum of 5'-0" on center for the full height of the partition.
    b. Interior full height partitions (studs extending from the floor to the structure above) with rigid facing material stopping 3'-0" or more below top of studs - Provide one row 3/4" bridging channel horizontally at termination of gypsum board material, and one additional row for each 5'-0" of exposed studs.
    c. Install stud bridging channels in long lengths, wire tying and lapping the joints a minimum of 12." Attach bridging channel to each stud as shown in manufacturer's printed instructions.

F. Ceiling and Soffit Framing:
1. Coordinate locations of hangers and supports with the work of other Sections.
2. Provide ceiling and soffit framing as indicated. Where not indicated provide, stud and runner framing, suspended framing, or proprietary suspended framing.
3. Proprietary Suspended Framing: Install in accordance with manufacturer's recommendations.
4. Stud and Runner Framing:
   a. Secure runners to structure above with fasteners at a maximum of 24 inches on center. Size fasteners and use reinforcements as necessary to support the dead loads applied.
   b. Screw fasten framing at each flange joint.
   c. Space studs at 16 inches on center at horizontal locations.
   d. Select members to meet the structural requirements specified.
5. Lightgage Suspended Framing:
   a. Install in accordance with ASTM C754, unless indicated or specified otherwise.
   b. Suspend ceiling from overhead structural elements only. Do not support from any electrical, HVAC, plumbing, or sprinkler system components.
   c. Space carrying channels 4 feet on center with splices lapped 12 inches and tied.
   d. Support cold rolled carrying channels with hanger wires spaced at 3 feet on center for lath and plaster ceilings and 4 feet on center for gypsum board ceilings. Loop hanger wire around support element and tightly wrap around vertical wire 3 times; cut off neatly.
   e. Space furring channels 16" o.c. with splices lapped 12", minimum and tied; clip or saddle tie to runner channels with 16-gage tie wire.
   f. Where overhead obstructions prevent the regular spacing of hangers, provide secondary carrying members for indirect support of the suspension system, or reinforce the nearest adjacent hangers and related framing components as required to span the required distance.
6. Stabilize suspended ceiling, soffit, and fascia framing against lateral movement by means of diagonal bracing. At locations where partitions extend to ceiling, only, install supplementary bracing at maximum 8'-0" o.c. along length of partition, and above each door hinge and strike jamb.
7. Form openings in ceilings and frame openings for recessed light fixtures, air diffusers, access doors, hatches, etc.
8. Install supplementary hanger wires for support of ceiling mounted equipment.

G. Backing:
1. Provide steel backing where indicated. At Contractor's option steel backing plates may be substituted for wood blocking, except wood blocking shall be used at the following locations: Handrails, guardrails, grab bars, and similar safety items.
2. Unless indicated otherwise, steel backing shall consist of minimum 4 inch wide 16 gage steel plate screwed rigidly to the studs.

H. Installation Tolerances:
1. Install members to provide surface plane with maximum variation of 1/8 inch in 10 feet in any direction.
2. Variation from Vertical (walls): 1/8 inch in 10 feet.
3. Locate assemblies within 1/4 inch of required locations.

092900 GYPSUM BOARD

A. Quality Control: Provide assemblies meeting the hourly fire ratings indicated. Assemblies shall be approved by the local jurisdictional code authorities.

B. Materials:
1. Gypsum Board:
   a. Standard Board, Water Resistant Board: ASTM C1396; Type X in fire rated partitions where indicated, and where incorporated as a part of a fire rated assembly; 5/8 inch thick unless noted otherwise.
   b. Tile Backer Board: As specified in section 093000.
2. Accessories:
   a. Trim: Concealed flange screw-on type; metal or PVC at Contractor's option; GA 216.
   b. Reveal Moldings: Fry Reglet Co., Pittcon Industries, Inc., Gordon Inc, or approved; aluminum extrusions with taping flanges; shapes as indicated.
   c. Joint Compound, Tape, and Finishing Compound: ASTM C475 and GA 216.
   d. Screws:
      1) Interior: ASTM C1002.
      2) Exterior: Galvanized; self-drilling, bugle head screws; minimum 1-1/4 inch long.

C. Installation:
1. Installation Standard: Unless specified otherwise, perform work in accordance with Gypsum Association 216, "Recommended Specifications for the Application and Finishing of Gypsum Wallboard."
2. Screw fasten board to framing, unless approved otherwise.
3. Install water resistant board as a substrate for surfaces scheduled to receive bonded finishes in Restrooms.
4. Where gypsum board is installed to patch or resurface existing fire rated walls, install so as to maintain existing fire rating.
5. Space control joints as indicated. When not indicated, locate as directed by Architect.
6. Trim:
   a. Use longest practical lengths, with no piece less than 2 feet long for continuous runs greater than 8 feet. Securely fasten and align trim ends at joints.
   b. Place concealed flange corner beads at all external corners. At angles other than 90 degrees, bend the flange to conform to the angle.
   c. Place concealed flange type L trim where gypsum board abuts dissimilar materials.
   d. Use J trim at exposed gypsum board edges (including light coves) where sealant joint is indicated.
7. Control Joints:
   a. Position control joints to intersect light fixtures, air diffusers, door openings, and other areas of stress concentration.
   b. Position control joints at locations where expansion or control joints occur in the building structure.
   c. Locate control joints to form rectangular or square sections, in "L," "U," "T," or other irregularly shaped areas.
8. Finishing (interior):
   a. Provide finishing in accordance with GA 214.
   b. Where necessary to sand, do so without damaging the face of the gypsum board.
   c. 3 coat smooth wall finish typical.
   d. Gypsum board surfaces shall form a smooth surface free of ridges, joint marks, fastener depressions, and joint filler lines. Tapered board joints shall be taped, filled, and feathered to 12 inches either side of the joint. Non-tapered board joints shall be taped, filled, and feathered to 18 inches either side of the joint.
   e. Level 5 finish at all wall covering, and Sales Floor walls visible to the Customer in the final work, and other areas as indicated on the Drawings.

093000 TILING

A. Summary:
1. Installation of Owner provided interior wall tile at storefront.
2. Installation of Owner provided interior floor tile.
3. Tile backer board
4. LHT mortar and grout
5. Metal screeds

B. Quantity Statements:
1. Tile, with pertinent installation and maintenance instructions will be furnished by Owner.
2. Quantities of tile purchased will be based on the approved Quantity Statement furnished by the Contractor for the exact amount required for the installation. Overage quantities will be added separately by the Owner for each type of tile.
3. Contractor shall be responsible for accuracy of quantity statements. In the event that insufficient quantity is discovered after order has been placed, proceed as follows:
   a. Immediately notify the Owner in writing of the additional quantities required, whereupon the Owner will, at his cost, obtain the additional quantities.
   b. Install additional quantities at no additional cost to the Owner.
   c. Pay for unusual transportation costs incurred in obtaining additional materials.
   d. Tile furnished for overage may be installed, if necessary. Notify Owner of quantity of tile installed so that he may obtain additional tile for overage stock.

C. Submittals:
1. Product Data: Submit for each type of tile, grout, adhesive, additive, accessory, and membrane specified.
2. Samples:
   a. Grout: Submit cured samples of each grout color. Furnish 2 cured samples of approved grout colors to the expansion joint sealer installer for color matching.
   b. Screeds: Submit samples of each type and finish of screed; minimum 3 inch length.

D. Quality Assurance: Conform to ANSI Standard Specifications for the Installation of Ceramic Tile.

E. Tile Types: As scheduled on the Drawings.

F. Setting Materials:
1. Thinset Mortar: Latex-portland cement in accordance with ANSI A118.4; 100% acrylic latex additive at all locations; Mapei Corp "Grani/Rapid" or "Kerabond" with "Universal Keralastic", Laticrete International, Inc., "211 Crete Filler Powder" with 4237 Latex Thin-set Mortar Additive," Hydroment "Tile-Mate Premium" with "447 Flex-a-lastic" by Bostik, or approved.
2. Large and Heavy Tile Mortar (Medium Bed):
   a. Mapei Corp. "Grani/Rapid" or "UltraContact".
   b. Laticrete International, Inc. "255 MultiMax".
   c. Bostik Hydroment "Medium Bed Mortar" mixed with "425 Multi-Purpose Acrylic Admixture," proportions as recommended by the manufacturer.
   d. Ardex Engineerec Cements "X32 Microtec".
3. Cementitious Grout:
   a. Hydroment "Ceramic Tile Grout /Joint Filler" with "425 Flexible Grout Admixture" by Bostik; "Koracolor S" by Mapei Corp., or "1500 Series Sanded Grout" with "1776 Grout Admix Plus" by Laticrete International, Inc.; sanded as appropriate for installation.
   b. Colors as listed in the Finish Schedule.
   c. Colors: As indicated in the Finish Legend.

G. Setting Accessories:
1. Metal Screed: As manufactured by Schlüter Systems, Inc. (800-225-8902), or Ceramic Tool Company, (414-258-9066); stainless steel tile edging trim; sizes as required for installation of top of screed flush with top of tile, as detailed.
2. [Tile Waterproofing Membrane:
   a. Mapei Corp "Aqua Defense" liquid-rubber waterproofing and crack-isolation membrane.
   b. Laticrete International, Inc. "HydroBan".]
3. Crack Isolation Membrane: One of the following.
   a. Laticrete "Blue 92 Anti-Fracture Membrane".
   b. The Noble Company "NobleSeal TS," reinforced CPE sheet membrane.
   c. N.A.C. Products Inc. "ECB Membrane;" self bonding reinforced modified asphalt sheet membrane; 36" width.
4. Interior Tile Backer Board and Accessories (approved for use at interior wall locations only)
   a. Interior Wall Locations:
      1) Georgia Pacific: "DensShield".
      2) USG: "FiberRock Aqua-Tough"
      3) CertainTeed: "DiamondBack Glasroc".
      4) Thickness: Nominal 1/2 inch or 5/8 inch as indicated on the Drawings.
   b. Provide tape and fasteners as recommended by the interior tile backer board manufacturer.
   c. Backer Board Accessories:
      1) Joint Tape: Open weave glass mesh joint tape, self-adhesive; 2-1/2 inches wide.
      2) Fasteners: As recommended by the backer board manufacturer; thread forming self-drilling wafer head screws; polymer coated or zinc plated; USG "Durock Screws," "Rock-On," or approved.
5. Siloxane Type Tile Sealer:
   a. Miracle Sealants "511-H20" by Miracle Sealants and Abrasives Company (800-350-1901).

H. Preparation: Clean substrate surfaces free of grease, dirt, dust, organic impurities, curing agents, and other materials which would impair bond. Clean floors with "Blast-track" unit if necessary.

I. Slab Leveling:
1. Prior to installation of thinset floor tile, where local irregularities in the substrate surface would prevent level installation of the tile, the substrate shall be brought to plane surface with variations not to exceed 1/8 inch in 10 feet from the required plane, and no more than 1/16 inch variation in 24 inches when measured from the high points in the surface. Smooth all abrupt changes in plane.
2. Use subfloor fillers endorsed by the setting mortar manufacturer.
3. Screed or float to appropriate thickness and specified surface tolerance. Allow to set prior to proceeding with installation. Do not exceed the maximum thicknesses for thin bed mortar as recommended by the manufacturer.

J. Installation of Tile Backer Board:
1. Install in accordance with the manufacturer's installation instructions. Provide shims as necessary to align backer board with adjacent substrates.
2. At wall locations, install units with edges firmly supported over framing at a maximum spacing of 16 inches oc.
3. Provide required space between panels.
4. Screw attach units with backer board manufacturer recommended fasteners spaced 6 inches oc along framing.
5. Install fiberglass reinforcing tape with joint compound at joints between panels.

K. Crack Isolation membrane installation:
1. Install crack isolation membrane on a unit price basis in accordance with Section 012200.
2. Crack isolation membrane may be required at the following locations:
   a. At control and construction joints in concrete floors.
   b. At changes in substrate materials.
   c. Shrinkage cracks 1/16 inch or larger in existing slabs.
3. Extend a minimum of 24 inches each side of crack or joint.
4. Substrate Examination:
   a. Substrates are subject to examination by the Owner prior to installation of tile or slab leveling materials. Furnish a minimum of 7 days notice.
   b. The examination will determine the need for crack isolation membrane at locations not scheduled above.

L. Waterproof Membrane Installation:
1. Install waterproof membranes in accordance with manufacturer's installation instructions.
2. At above grade locations, install waterproof membrane completely over floor surfaces indicated, and up the wall a minimum of 5 inches. (Do not expose the waterproof membrane to view.)
3. Protect waterproof membrane from damage until after tile installation is complete.

M. Screed Installation:
1. Install screeds at tile field edges at the locations indicated.
2. Accurately cut to length for flush tightly butted joints. Provide miter cut angle joints.
3. Install in longest possible lengths, except that no screed section shall be longer than 12 feet or shorter than 4 feet.
4. Install screeds free from waves and variations in height, flush with top of adjacent tile surfaces.
5. Set screeds directly in setting bed as the tile installation proceeds. Comply with screed manufacturer's instructions to achieve mortar tightly compacted between screed and tile edge.

N. Installation of Tile:
1. Interior Floor Application - Thinset or LHT Mortar Bed over Concrete Substrate or Waterproofing/Crack Isolation Membrane.
   a. TCNA System: Similar to F113.
   b. Installation Standard: ANSI A108.5.
   c. Setting Materials: Latex modified thinset mortar; 3/32 inch minimum thickness.
2. Interior Wall Tile Application – Thinset Over Tile Backer Board.
   a. TCNA System: Similar to W244.
   b. Installation Standard: ANSI A108.5.
   c. Setting Materials: Thinset mortar.
3. Joint Pattern:
   a. Lay out tile pattern prior to commencing tile installation.
   b. Accurately locate grout joints on lines indicated; where not indicated, adjust grout joints within specified toierances to minimize use of cut tiles at field edges.
   c. Where cut tiles are necessary, position floor tile such that cut tile at each edge of each rectilinear field is not less than half of a full size unit.
   d. Unless otherwise indicated, tile joints shall be 1/8" wide.
4. Tiles shall be blended as necessary to avoid pattern repeats and "patches" of adjoining tiles of distinctive color or character within each field area.
5. Tiles that exhibit directional patterns shall be set with grain direction as indicated on the shop drawings, or, if not indicated, as directed by the Owner.
6. Install tiles aligned with adjacent finishes, where indicated. Provide mortar fill as necessary for proper alignment.
7. Use wet saws to cut tiles for accurate fit and consistent edge conditions; scratch cutters and snapped tiles are not allowed.
8. Clean joints of mortar to minimum depth of 1/4 inch to allow subsequent grout installation.
9. Tolerances:
   a. Joint Width Variation: Plus or minus 25% of joint width.
   b. Taper: Plus or minus 25% from one end to the other.
   c. Lippage: No portion of a tile surface shall vary more than 1/32 inch above or below an adjacent tile surface.
   d. Install tile fields level to within tolerance specified for finished substrate.
   e. Chipped or broken tile: Not acceptable.
10. Special Floor Tile Installation Requirements:
    a. Wash backs of each tile to remove all dust and soil which would compromise adhesion.
    b. Dampen substrate as necessary to prevent excessive suction.
    c. Key the mortar into the substrate with the flat side of the trowel.
    d. Comb mortar over the previously keyed substrate in one direction using the notch side of the trowel.
    e. Firmly press each tile into the mortar. Press down and move the tile back and forth perpendicularly across the ridges approximately 1/8 to 1/4 inch to flatten the ridges and fill in the valleys of the combed mortar, as necessary to achieve minimum mortar coverage of 95 percent, with tile corners and edges firmly supported.
    f. Set tiles in accurate alignment.

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Seal:

A Project for:

JD SPORTS #1425
LAS AMERICAS PREMIUM OUTLETS
4155 CAMINO DE LA PLAZA SPACE 0448A
SAN DIEGO, CA 92173

⚠

PORTFOLIO REFERENCE ONLY

Client:
JD SPORTS

3308 N. MITTHOEFFER ROAD
INDIANAPOLIS, IN 46235

SPECIFICATIONS

Sheet #:
A00.8

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O. Grouting:
1. Mix grouts in accordance with manufacturer's instructions.
2. Grout all joints, except expansion joints, in accordance with the manufacturer's recommendations. Float joints to a slightly concave profile.
3. Remove excess grout from tile surfaces in accordance with the grout and tile manufacturer's recommendations. Do not use excess amounts of water.
4. Protect adjacent surfaces from damage if acid cleaners are used.
5. Do not grout joints indicated to receive sealants.
6. Cured grout joints shall be made free of efflorescence, prior to sealing.
7. Cure installation in accordance with the grout manufacturer's recommendations. Protect tile and grout during curing operations.

P. Expansion Joints:
1. Place expansion joints as indicated on the Drawings, but in no case more than 16 foot intervals for interior installations.
2. Place expansion joints at control and expansion joints in concrete slabs, and at intersections with walls and columns.
3. Joint Sizes: Set to match width of typical grouted joint.
4. Leave expansion joints free of mortar.
5. Sealant materials and installation are specified in Section 079200.

Q. Cleaning:
1. Wash and thoroughly rinse all tile. Leave all tile surfaces clean. Auto-scrub floor with sealer manufacturer's recommended cleaner as required to remove all contaminants.
2. Allow floor to dry for a minimum of one hour prior to sealant application.

R. Grout Sealing: Apply two coats of sealer in accordance with the manufacturer's recommendations to achieve maximum penetration into tile grouts.

S. Special Protection Requirements For Tile Surfaces:
1. Areas Subject Only to Foot Traffic: Lay down non-staining curing paper lapped and sealed at joints and edges with Nashua Brand Duct Tape. Do not use polyethylene or products containing bituminous materials.
2. Areas Subject to Rolling Trucks, Dollies and Other Equipment: In addition to the above, such areas shall be further protected by continuous plywood or hardboard runways. Coordinate designation of such areas.

096500 RESILIENT FLOORING

A. Summary:
1. Sheet Vinyl
2. [Patch and Repair of Existing Vinyl Composition Tile.]
3. Transition Strips.

B. Submittals:
1. Product literature:
a. Submit for each product proposed, including resilient tile flooring, transition strips, threshold, and adhesives.

C. Quality Assurance:
1. Qualifications of Installers:
a. Use only skilled and experienced resilient flooring installers for preparation of substrate and installation of resilient flooring.
b. Helpers and apprentices used for such work shall be under full and constant supervision at all times by thoroughly skilled resilient flooring installers.

D. Environmental Requirements
1. Maintain minimum 70 degrees F air temperature at flooring installation area for three days prior to, during, and for 24 hours after installation.
2. Store flooring materials in area of application. Allow three days for material to reach equal temperature as area.

E. Materials:
1. Sheet Vinyl
2. Subfloor Filler: White premix latex filler, mixed with water to produce a cementitious paste.
3. Primers and Adhesives: Types as recommended by resilient flooring manufacturer for specific application.
4. Threshold: Rubber threshold in configuration as detailed.

F. General Resilient Flooring Installation Requirements:
1. [Removed damaged floor tile in accordance with section 024119.]
2. Sequence installation with plumbing fixtures to permit sealing around all floor penetrations.
3. Install subfloor filler to fill low spots, cracks, construction joints, holes and other defects, and as required to adjust level to meet adjacent finishes. Feather to maximum slope of 1/8 inch in 3 feet; float to smooth, flat, hard surface. Prohibit traffic over filler.
4. Install all resilient flooring where scheduled in accordance with manufacturer's recommendations.
5. Terminate resilient flooring at centerline of door at door openings where adjacent floor finish is dissimilar, and where no threshold is indicated.
6. Install threshold at unprotected or exposed edges where flooring terminates.
7. Scribe flooring to walls, columns, cabinets, floor outlets and other appurtenances to produce tight joints.
8. Clean substrate. Spread cement evenly in quantity recommended by manufacturer to ensure adhesion over entire area of installation. Spread only enough adhesive to permit installation of flooring before refinishing.
9. Set flooring in place, press with heavy roller to ensure full adhesion.

G. Vinyl Composition Tile:
1. Open floor tile cartons, enough to cover each area, and mix tile to insure shade variations do not occurs within one area.
2. Unless indicated otherwise, install flooring with joints parallel to building lines.
3. Install with minimum tile width 1/2 full size at room or area perimeter.
4. Arrange to square grid pattern with all joints aligned, with pattern grain alternating with adjacent unit to produce basket weave pattern. Where patching into existing floor, match exiting pattern. 29

H. Cleaning
1. Remove excess adhesive from floor, and wall surfaces without damage.
2. Clean floor in accordance with manufacturer's instructions.

096513 RESILIENT BASE AND ACCESSORIES

A. Materials:
1. Resilient Base: Roll stock as scheduled on the Drawings.
2. Primers and Adhesives: Types as recommended by resilient base manufacturer for specific application.

B. Installation:
1. Adhesive install base materials in accordance with the manufacturer's recommendations. Adhere tightly to wall and floor surfaces.
2. Use roll stock only. Where cutting is necessary, maintain minimum measurement of 18 inches between joints.
3. Miter or cope inside corners for accurate fit.
4. Install base to walls, columns, and to wood casework toe kicks in areas where resilient base is scheduled.
5. Score back of base material with grooving tool, at outside corners; maintain minimum leg length 18 inches where wall length permits. Mount base so that scored groove is accurately aligned with corner, and with base tightly adhered to wall at both sides of corner, with no visible gaps at top of base. Where cove base is formed around outside corners, stretch toe of cove for smooth transition around corner, with toe in uniform contact with the finish flooring.
6. Scribe and fit to door frames and other obstructions.
7. Install straight and level to variation of plus or minus 1/8 inch over 10 feet.
8. Coordinate installation of base with work of Sections 096500, 033536 and 093000 as applicable.
9. Fit joints tight and vertical.

C. Cleaning
1. Remove excess adhesive from base and wall surfaces without damage.
2. Clean base in accordance with manufacturer's instructions.

097200 WALL COVERINGS

A. Summary: Installation of owner-provided wall coverings.

B. Submittals:
1. Submit evidence of experience including photographs of installations of similar, custom patterned wall coverings.
2. Prior to installation, submit written acceptance of substrate on wall covering installer's letterhead. If necessary, do not begin installation until all substrate conditions are corrected.

C. Quality Control:
1. Wall Covering Installer: Minimum of 5 years experience in wall covering installations of similar size, scope, and complexity. Able to show evidence of experience when requested by the Owner.

D. Environmental Conditions:
1. Temperature: As recommended by the wall covering manufacturer.
2. Do no wall covering work until surfaces and materials have been maintained at 60 degrees F. minimum, or higher if recommended by wall covering manufacturer, for 3 days before work begins.
3. Maintain minimum or above temperatures during the entire installing time and until adhesives have fully dried or cured.
4. Lighting: During installation, maintain minimum lighting level of 15 foot-candles on the surfaces to receive wall covering. Use temporary lighting, if necessary, to attain specified level.

E. Maintenance Materials:
1. Excess Yardage:
a. Notify Owner's representative at the site prior to removing excess yardage from the job. The Owner's representative will select the materials which are to be retained by the Owner.
b. Carefully wrap the excess yardage selected to be retained. Deliver to a location on site as directed by the Owner. Remove remainder from the site and legally dispose.

F. Materials:
1. Wall Coverings: As scheduled on the Drawings.
2. Adhesives: As recommended by the wall covering manufacturer.

G. Preparation:
1. Schedule work such that the subsequent work of other sections will not damage the work of this section.
2. Remove electrical outlet and switch plates, mechanical diffusers, escutcheons, registers, surface hardware, fittings, and fastenings prior to starting work; store during and replace after work.
3. Protection: Provide sufficient drop cloths, shields, and protective equipment to prevent wall covering materials from fouling adjacent surfaces, and in particular at storage and preparation areas.

H. Installation:
1. Apply adhesives in strict accordance with the adhesive manufacturer's directions for the type of material being applied.
2. Install wall covering secure, smooth, clean, and without wrinkles, gaps or overlaps.
3. Install wall covering in accordance with manufacturer's installation instructions.
4. Extend wall covering continuously behind such items as mirrors, and other items which are close to but not touching walls.
5. Provide double-cut seams on nonmatch patterns; butt seams on match patterns.
6. Install wall covering oriented vertically. Horizontal seams are not permitted.

7. Corner Seams: Make no seams within 6 inches of an inside or outside corner. Lap wall coverings at inside corner seams to prevent substrate show through.
8. Cleanup
a. Remove all adhesives, and other contaminants in a manner which will not damage the surface from which it is removed.
b. Remove debris and leave areas neat and clean.
c. Replace all removed wall plates and other accessories.
d. Repair to like-new condition, or replace as directed by the Owner, all surfaces damaged by work of this Section.

099000 PAINTING AND COATING

A. Summary:
1. Interior painting of new surfaces.
2. Painting of previously unpainted interior steel elements indicated on the Drawings.

B. Submittals:
1. Submit a list of each paint system to be used in the work.
2. Submit two samples of each color and paint system indicated.

C. Quality Assurance:
1. Paint coatings shall be free of dust, dirt, flow lines, streaks, sags, blisters, pinholes, bugs, runs, or other surface imperfections.
2. In addition to the coats specified, provide additional coats as required to obtain adequate hide.

D. Maintenance Materials: Furnish a minimum of one gallon of each color paint to Owner for future touch-up work.

E. Materials:
1. Products by the following manufacturers are acceptable:
a. Pittsburgh Paints.
b. Pratt & Lambert.
c. Benjamin Moore Paint Company
d. The Sherwin-Williams Company.
e. Glidden Professional / Akzo Nobel Paints.
2. Paint materials are to be fully VOC compliant, and of the highest quality intended for application by professional commercial painters.
3. Acrylic Wall Size: One of the following.
a. ICI Devoe "Wonderprime" DR51701 vapor barrier primer/sealer.
b. ICI Dulux "Ultra-Hide" 1060 vapor barrier primer/sealer.
c. Sherwin-Williams "Harmony Primer 0 VOC" B11W900.
d. Benjamin Moore Paint Company "Moore's Wall-Grip 203."
e. Zinsser Co, Inc. (Somerset NJ; 732-469-8100) "Shieldz Universal Pre-Wall Covering Primer"; acrylic primer/sealer.
4. Concrete Urethane Flooring Topcoat System:
a. Manufacturer: Dur-A-Flex, Inc. (East Hartford, CT; 877-251-5418) "Accelera".
1) Colorant Additive: "White" – one of the following:
a) Tennant Coatings (Minneapolis, MN, 866-540-1299), "#370300 White Colorant".
b) Sherwin Williams Company "ColorCast EcoToner #844".
2) Sheen: Gloss.
3) Add 1 pint colorant per 1 kit of Accelera.
5. Epoxy/Polyurethane System: One of the following
a. Manufacturer: Tnemec Company Inc. (Kansas City, MO; 816-483-3400).
1) Epoxy Primer: "Hi-Build Epoxoline II" Series 69.
2) Polyurethane Finish Coats: Series 75 "Endura-Shield" Acrylic Polyurethane Enamel; semi-gloss or satin sheen.
b. Manufacturer: Carboline Company (St. Louis, MO; 314-644-1000; 800-848-4645).
1) Epoxy Primer: Carboline 888
2) Polyurethane Finish Coats: Carboline 133 HB; semi-gloss or satin sheen.
c. Manufacturer: Ameron Protective Coatings (Brea, CA; 714-529-1951).
1) Epoxy Primer: "Amercoat 385."
2) Polyurethane Finish Coats: Amercoat 450SA", semi-gloss or satin sheen.
6. Direct-To-Metal (DTM) acrylic primer:
a. ICI/Devoe "Devflex 4020" primer.
b. Sherwin Williams "DTM Acrylic Primer."

F. Surface Preparation:
1. Prepare surfaces by removing dirt, dust, grease, oil, moisture, and other contaminants that will impair the proper adhesion of the finish.
2. Wood - Opaque paint finish:
a. Spot coat knots, pitch streaks, and sappy sections with sealer.
b. Fill nail holes and cracks. Sand filler smooth and level with wood surface.
3. Gypsum Board: Remove light dust, and dirt.
4. Existing Finished Surfaces To Be Repainted:
a. Remove loose, blistered, scaled, or crazed finishes to bare substrate; feather new work into existing work. Prepare surfaces to the nearest break line if necessary to blend new finishes with old finishes.
b. Wash and rinse surfaces with trisodium phosphate and water or other solution required to remove remaining film, wax, oil, grease, smoke or foreign matter which will impair bond, or cause bleed through, of newly applied finishes.
c. Lightly sand, or apply a liquid deglosser on existing semi-gloss and high-gloss finishes before refinishing.
5. Existing Unpainted Interior Steel Elements (above 10 feet) Indicated to Receive Paint:
a. Remove loose, and scaling rust with wire brush.
b. Leave surface free of dust and dirt that will impair bond of newly applied finish.
6. Existing Unpainted Interior Steel Elements (below 10 feet) Indicated to Receive Paint:
a. Solvent clean in accordance with Steel Structures Painting Council (SSPC) SP-1.
b. Commercial blast per SSPC SP-6.
c. Leave surface free of dust and dirt that will impair bond of newly applied finish.
7. Existing Concrete Floor Surfaces: 31
a. Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.
b. For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2, CSP 1-3. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids with Steel-Seam FT910. Primer required.
c. Follow the standard methods listed below when applicable:
1) ASTM D4258 Standard Practice for Cleaning Concrete.
2) ASTM D4259 Standard Practice for Abrading Concrete.
3) ASTM D4260 Standard Practice for Etching Concrete.
4) ASTM F1869 Standard Test Method for Measuring Moisture Vapor
5) Emission Rate of Concrete.
6) SSPC-SP 13/Nace 6 Surface Preparation of Concrete.
7) ICRI No. 310.2 Concrete Surface Preparation.
d. Previously Finished Surfaces:
1) Clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, additional abrasion of the surface and/or removal of the previous coating may be necessary. Retest surface for adhesion.

G. Special Application Requirements:
1. Unless specified or indicated otherwise, follow paint manufacturer's label directions for general application procedures and coverage rates.
2. Do not apply finishes on surfaces that are not sufficiently dry. Make sure each coat of finish is dry and hard before a following coat is applied unless the manufacturer's directions state otherwise.
3. Opaque Finishes:
a. Apply number of coats scheduled for each application, except that additional finish coats shall be applied as necessary for complete hiding of substrate colors.
b. Apply primer coats un-tinted. Where more than one coat of paint is required, tint each succeeding coat up to the final coat similar in tint, but slightly lighter in value (shade).
c. Sand lightly between coats if necessary to achieve required finish; sand between coats applied to wood substrates.
4. Rollers for application, and backrolling of latex paints shall have a nap of 3/8 inch or less.
5. Where roller texture is scheduled for application to plaster and gypsum board surfaces, finish coats may be roller-applied, or spray applied and backrolled at Contractor's option.
6. Factory Primed Surfaces: Apply scheduled finish system, less primer coat, except as necessary to for patching damage to factory prime coating.
7. Except where scheduled or indicated otherwise, the intent is to paint new rooms and areas. Existing areas that have not been remodeled or do not have patched surfaces are not to be repainted. Where existing surfaces have been remodeled or patched the entire room is to be repainted, including the associated access panels, electrical panels, hollow metal doors and frames (both sides), and similar elements within the room.

H. Interior Painting Systems:
1. Gypsum Board, Gypsum Plaster, and GFRG - Latex System:
a. System: Three coats - first coat acrylic latex primer sealer (untinted), second and third coat latex paint.
b. Sheen: Roller texture, eggshell sheen, except provide flat sheen at light coves, ceilings, skylight areas, clerestory areas, interior fascias, and other light sensitive surfaces. Verify locations of each sheen with Architect before proceeding with work.
c. Application:
1) Use on all exposed gypsum board, plaster, and GFRG surfaces, including the exposed portions of wall surfaces between adjacent fabric covered panels and mirrors.
2) Provide prime coat only behind permanently mounted mechanically anchored mirrors, fabric panels, and similar elements.
3) Do not apply primer or paint coatings to surfaces to receive adhesively mounted mirrors or tile.
2. Gypsum Board - Surfaces to Receive Wall covering: Apply one coat of acrylic wall size.
3. Interior Latex Dry-Fall System: One of the following; color matches as scheduled.
a. Manufacturer: Benjamin Moore Paint Company
1) Finish: M53 "Sweep-Up Spray Latex Flat."
b. Manufacturer: ICI Devoe
1) Finish: "1280-1200 Spraymaster Pro Uni-Grip WB Aquacrylic Dryfall Flat Primer and Finish."
c. Manufacturer: Sherwin-Williams
1) Finish: "Waterborne Acrlic Dryfall (B42 Series)" Flat sheen.
4. Wood - Opaque Finish Latex System:
a. System: Three coats; first coat latex wood primer, and second and third coat latex enamel.
b. Sheen: Semi-gloss, unless indicated otherwise.
c. Application: Use on all wood or medium density fiberboard surfaces indicated to receive opaque coating not otherwise specified in Sections 064000 or 081400.
5. Ferrous Metal and Galvanized - Acrylic System:
a. System: Three coats; first coat acrylic DTM primer; second and third coats latex finish. The primer may be omitted at factory primed surfaces, except as necessary to recoat damaged or abraded preprimed surfaces.
b. Sheen: Semi-gloss, unless indicated otherwise.
c. Application: Interior ferrous metal surfaces including hollow steel metal doors and frames, pipe steel hand and guard rails, overhead doors and frames, access doors and panels, and fire extinguisher cabinets.
6. Aluminum Reveals - Acrylic System:
a. System: Three coats; first coat acrylic DTM primer; second and third coats latex finish.
b. Sheen: Satin, unless indicated otherwise.
c. Application: Aluminum reveals if not pre-finished.

7. Concrete Floor Stripes - Epoxy System:
a. System: Two coats; first coat epoxy primer sealer, and second coat self-leveling / recoatable epoxy.
b. Sheen: Gloss, unless indicated otherwise.
c. Application: Use on concrete floor or underlayments where painted floor stripes are indicated.

I. Colors: As scheduled on the Drawings.

DIVISION 10 - SPECIALTIES

101400 SIGNAGE

A. Summary:
1. Code required, informational and directional at locations indicated on the Drawings.
2. Installation of signage.

B. Quality Assurance:
1. Regulatory Requirements: Signage shall conform to the requirements of the jurisdictional code authorities.

C. Materials:
1. General: Furnish signage similar to details. For custom signage, font shall be Optima, or approved.
2. Door Signage: Screen printed or individual letters on self-adhesive vinyl; configuration and text as indicated on the Drawings; colors as directed.

D. Installation:
1. All graphics shall be mounted level and plumb and in accurate alignment, unless indicated otherwise.
2. Decals: Adhere to substrate free of bubbles.

102813 TOILET ACCESSORIES

A. Products and Accessories: Provided by the Owner for installation.

B. Installation: Secure each item in accordance with manufacturer's recommendations, and installation instructions, and accessibility requirements.

104416 FIRE EXTINGUISHERS AND CABINETS

A. Submittals: Product literature, including extinguisher dimensions.

B. Extinguishers: Multi-Purpose Dry Chemical Type: Heavy Duty DOT Steel tank; UL rating 2A-10B;C, 5 lb capacity, FM approved; red enamel finish; pressure gage; metal valves and siphon tubes.

C. Fire Extinguisher Cabinets:
1. Manufacturer: J.L Industries #8100 series is specified as the design standard.
a. Similar products from the following manufacturers are acceptable subject to the specified requirements.
1) Potter-Roemer, Inc.
2) Larsen's Manufacturing Company
b. Trim style: Fully recessed flat trim model where wall depth allows, or semi recessed (approximately 2-1/2" projection; rolled edge) where required by wall depth.
c. Door: 2 inch wide vertical, clear tempered glass with pull handle.
d. Lettering: "Fire Extinguisher" in back lettering, vertical format.
e. Provide fire-rated model at rated wall construction.
f. Finish: Manufacturer's standard baked white enamel interior; furnish to Section 099000 for field painting when indicated on the Drawings.

D. Fire Extinguisher Brackets: Manufacturer's standard J-type. Provide at fire extinguisher locations where no cabinet is indicated.

E. Installation:
1. Install brackets 48 inches from finished floor to top of bracket.
2. Secure rigidly in place in accordance with manufacturer's instructions.
3. Install cabinets plumb and level in wall openings in locations as indicated. Unless otherwise indicated, install 30 inches from finished floor to inside bottom of cabinet.
4. When recessed cabinets are installed in fire rated walls, maintain fire resistance rating continuously behind the cabinet.
5. Install in locations as indicated on the drawings.

109013 MISCELLANEOUS SPECIALTIES

A. General:
1. Summary of Items:
a. Floor Marking Tape
2. Submittals: Provide manufacturer's product data and installation instructions. Mark as necessary to define size and color proposed.

B. Products:
1. Floor Marking Tape:
a. Manufacturer: Shield Mark, Inc. (Rocky River, OH; 800-714-9980).
b. Product: "Mighty Line", solid, 2 inches wide, PVC floor tape; color, White.
c. Location: As indicated on the Drawings.

C. Installation:
1. Preparation: Confirm concrete is clean, free of dirt and oil, and above 55 degrees Fahrenheit.
2. Install in single lines, straight, and without intermediate seams or joints.
3. Miter cut all 90 degree corners; skim seal all seams with white silicone to hide transitions.

DIVISION 11 through DIVISION 14 33

A. Not Used

DIVISION 21 – FIRE SUPPRESSION

210033 DESIGN-BUILD FIRE SUPPRESSION

A. Fire protection systems are design/build, and shall conform to the requirements of the jurisdictional code authorities, and requirements of the Landlord.

B. Sprinkler heads in Retail Sales, Fitting and Display area ceilings shall be the fully-concealed type, finished to match the ceiling they are installed in. Sprinkler heads in the remainder of the store shall be either concealed or semi-recessed, chrome finish with white trim. Confirm type and finish of heads in open to structure ceiling areas with Architect.

C. Fire protection subcontractor shall furnish stamped, signed shop drawings of the sprinkler system prepared by a Professional Engineer licensed to practice in the State where the project is located.

D. Submit approved shop drawings for local Building Department and Fire Marshal review and approval, as submittal for permit, as required.

DIVISION 22 – PLUMBING

A. See Plumbing Drawings.

DIVISION 23 – HEATING, VENTILATING, AND AIR-CONDITIONING (HVAC)

A. See Mechanical Drawings.

DIVISION 26 - ELECTRICAL

A. See Electrical Drawings.

END

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Seal:

A Project for:

JD SPORTS #1425
LAS AMERICAS PREMIUM OUTLETS
4155 CAMINO DE LA PLAZA SPACE 0448A
SAN DIEGO, CA 92173

PORTFOLIO REFERENCE ONLY

Client:
JD SPORTS

3308 N. MITTHOEFFER ROAD
INDIANAPOLIS, IN 46235

JD SPORTS
STANDARDS

Sheet #:
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CITY BUILDING INSPECTOR NOTE:
IF THE CITY BUILDING INSPECTOR DETERMINES NONCOMPLIANCE WITH ANY ACCESSIBILITY PROVISIONS, A COMPLETE AND DETAILED REVISED PLANS CLEARLY SHOWING ALL EXISTING NON-COMPLYING CONDITIONS AND THE PROPOSED MODIFICATIONS TO MEET CURRENT ACCESSIBILITY REQUIREMENTS (INCLUDING SITE PLAN, FLOOR PLANS, DETAILS, ETC.) WILL BE SUBMITTED TO THE DEPARTMENT FOR REVIEW AND APPROVAL.

LEGEND

PROJECT SITE

PATH OF TRAVEL FROM ACCESSIBLE PARKING TO ENTRY DOOR

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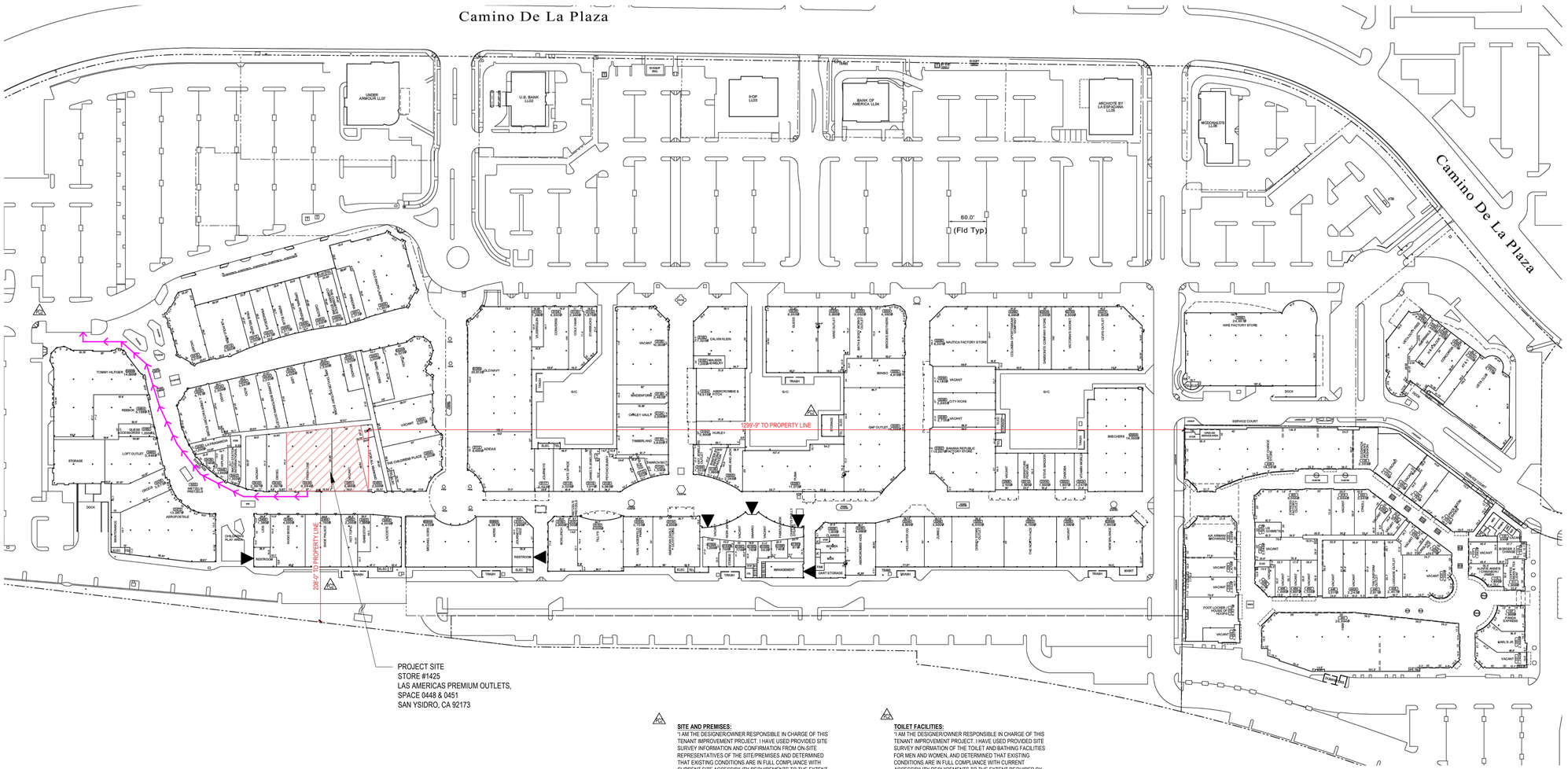
This exhibit is provided for illustrative purposes only, and shall not be deemed to be a warranty, representation or agreement by Landlord that the Center, Common Areas, buildings and/or stores will be as illustrated on this exhibit, or that any tenants which may be referenced on this exhibit will at any time be occupants of the Center. Landlord reserves the right to modify size, configuration and occupants of the Center at any time.



SITE AND PREMISES:
"I AM THE DESIGNER/OWNER RESPONSIBLE IN CHARGE OF THIS TENANT IMPROVEMENT PROJECT. I HAVE USED PROVIDED SITE SURVEY INFORMATION AND CONFIRMATION FROM ON-SITE REPRESENTATIVES OF THE SITE/PREMISES AND DETERMINED THAT EXISTING CONDITIONS ARE IN FULL COMPLIANCE WITH CURRENT SITE ACCESSIBILITY REQUIREMENTS TO THE EXTENT REQUIRED BY LAW.
PRINT NAME: _____, SIGNATURE: _____,
DATE: _____."

TOILET FACILITIES:
"I AM THE DESIGNER/OWNER RESPONSIBLE IN CHARGE OF THIS TENANT IMPROVEMENT PROJECT. I HAVE USED PROVIDED SITE SURVEY INFORMATION OF THE TOILET AND BATHING FACILITIES FOR MEN AND WOMEN, AND DETERMINED THAT EXISTING CONDITIONS ARE IN FULL COMPLIANCE WITH CURRENT ACCESSIBILITY REQUIREMENTS TO THE EXTENT REQUIRED BY LAW.
PRINT NAME: _____, SIGNATURE: _____,
DATE: _____."

Modified: June 30, 2025

Change of Elevation
Primary Entrances
Structural Element

Center Plan

0 75 150

Project Data

Total GLA	655,047

Las Americas Premium Outlets
4211 Camino de la Plaza
San Diego, CA 92173
CORP # 7926

SIMON® PREMIUM OUTLETS

NORTH

17
SCALE: NTS
EXISTING SITE PLAN - FOR REFERENCE ONLY

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Seal:

A Project for:

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1

PORTFOLIO REFERENCE ONLY
Client:
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INDIANAPOLIS, IN 46235

SITE PLAN

Sheet #:
A00.10

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2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (July 2024 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

Y	N/A	RESPON. PARTY

CHAPTER 3
GREEN BUILDING
SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of $200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.

A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used.

301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:

Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 *et seq.* for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.

301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC)
301.5 HEALTH FACILITIES. (see GBSC)

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

SECTION 303 PHASED PROJECTS

303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.

303.1.1 Initial Tenant improvements. The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations.

ABBREVIATION DEFINITIONS:

HCD	Department of Housing and Community Development
BSC	California Building Standards Commission
DSA-SS	Division of the State Architect, Structural Safety
OSHPD	Office of Statewide Health Planning and Development
LR	Low Rise
HR	High Rise
AA	Additions and Alterations
N	New

CHAPTER 5
NONRESIDENTIAL MANDATORY MEASURES

DIVISION 5.1 PLANNING AND DESIGN
SECTION 5.101 GENERAL

5.101.1 SCOPE
The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.

SECTION 5.102 DEFINITIONS

5.102.1 DEFINITIONS
The following terms are defined in Chapter 2 *(and are included here for reference)*

CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.

ELECTRIC VEHICLE (EV). [BSC-CG, HCD] An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the California Electrical Code, off-road, self-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats and the like, are not included.

ELECTRIC VEHICLE (EV) CAPABLE SPACE. [BSC-CG, DSA-SS and HCD] A vehicle space with electrical panel space and load capacity to support a branch circuit and necessary raceways, both underground and/or surface mounted, to support EV charging.

ELECTRIC VEHICLE (EV) CHARGER. [BSC-CG, HCD] Off-board charging equipment used to charge an electric vehicle.

ELECTRIC VEHICLE CHARGING SPACE (EV SPACE). [HCD] A space intended for future installation of EV charging equipment and charging of electric vehicles.

ELECTRIC VEHICLE CHARGING STATION (EVCS). [BSC-CG, DSA-SS, HCD] One or more electric vehicle charging spaces served by EVSE or receptacle(s).

ELECTRIC VEHICLE (EV) READY SPACE. [HCD] A vehicle space which is provided with a branch circuit; any necessary raceways, both underground and/or surface mounted; to accommodate EV charging, terminating in a receptacle or a charger.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE).[BSC-CG, DSA-SS and HCD] The conductors, including the ungrounded, grounded and equipment grounding conductors and the electric vehicle connectors, attachment plugs, personnel protection system, and all other fittings, devices, power outlets or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

SECTION 5.105 DECONSTRUCTION AND REUSE OF EXISTING STRUCTURES

5.105.1 Scope. [BSC-CG] Effective July 1, 2024, alteration(s) to existing building(s) where the combined altered floor area is 100,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 100,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3. Effective January 1, 2026, the combined floor area shall be 50,000 square feet or greater.

[DSA-SS] Alteration(s) to existing building(s) where the combined altered floor area is 50,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 50,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3.

Exception [BSC-CG, DSA-SS]: Combined addition(s) to existing building(s) of two times the area or more of the existing building(s) is not eligible to meet compliance with Section 5.105.2.

Y	N/A	RESPON. PARTY
☑	☐	EXISTING
		ARCH. EXISTING ITEMS LISTED TO REMAIN

5.105.2 Reuse of existing building. An alteration or addition to an existing building shall maintain at a minimum 45 percent combined of the existing building's primary structural elements (foundations; columns, beams, walls, and floors; and lateral elements) and existing building enclosure (roof framing, wall framing and exterior finishes). Window assemblies, insulation, portions of buildings deemed structurally unsound or hazardous, and hazardous materials that are remediated as part of the project shall not be included in the calculation.

5.105.2.1 Verification of compliance. Documentation shall be provided in the construction documents to demonstrate compliance with Section 5.105.2.

Note: Sample Worksheet WS-3 in Chapter 8 may be used to assist in documenting compliance with this section.

5.105.3 Deconstruction (Reserved).

Y	N/A	RESPON. PARTY
☐	☑	EXISTING
		NO CHANGES TO LL PARKING

SECTION 5.106 SITE DEVELOPMENT

5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures:

5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control ordinance.

5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMPs.

1. Soil loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Scheduling construction activity during dry weather, when possible.
   b. Preservation of natural features, vegetation, soil, and buffers around surface waters.
   c. Drainage swales or lined ditches to control stormwater flow.
   d. Mulching or hydroseeding to stabilize disturbed soils.
   e. Erosion control to protect slopes.
   f. Protection of storm drain inlets (gravel bags or catch basin inserts).
   g. Perimeter sediment control (perimeter silt fence, fiber rolls).
   h. Sediment trap or sediment basin to retain sediment on site.
   i. Stabilized construction exits.
   j. Wind erosion control.
   k. Other soil loss BMPs acceptable to the enforcing agency.
2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Dewatering activities.
   b. Material handling and waste management.
   c. Building materials stockpile management.
   d. Management of washout areas (concrete, paints, stucco, etc.).
   e. Control of vehicle/equipment fueling to contractor's staging area.
   f. Vehicle and equipment cleaning performed off site.
   g Spill prevention and control.
   h. Other housekeeping BMPs acceptable to the enforcing agency.

Y	N/A	RESPON. PARTY
☐	☑	EXISTING
		NO CHANGES TO LL PARKING

5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale.

Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).

The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency.

Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development.

5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2

Y	N/A	RESPON. PARTY
☐	☑	EXISTING
		NO CHANGES TO LL PARKING

5.106.4.1 Bicycle parking. [BSC-CG] Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter.

5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.
Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.

5.106.4.1.2 Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.3 For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one bicycle parking facility.

5.106.4.1.4 For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall be convenient from the street and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

Note: Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates.

Y	N/A	RESPON. PARTY
☐	☑	EXISTING
		NO CHANGES TO LL PARKING

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.
5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

Y	N/A	RESPON. PARTY
☐	☑	EXISTING
		NO CHANGES TO LL PARKING

5.106.5.3 Electric vehicle (EV) charging. [N] [BSC-CG] Construction to provide electric vehicle infrastructure and facilitate electric vehicle charging shall comply with Section 5.106.5.3.1 EV capable spaces, Section 5.106.5.3.2 Electric vehicle charging stations and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 Electric vehicle charging stations (EVCS)—Power allocation method and associated Table 5.106.5.3.6 and shall be provided in accordance with regulations in the *California Building Code* and the *California Electrical Code*.

Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcement agency substantiating the local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with this code section.

5.106.5.3.1 EV capable spaces. [N] EV capable spaces shall be provided in accordance with Table 5.106.5.3.1 and the following requirements:
1. Raceways complying with the California Electrical Code and no less that 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the EV capable and into a suitable listed cabinet, box,enclosure or equivalent. A common raceway may be used to serve multiple EV charging spaces.
2. A service panel or subpanel (s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS.
3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at each EV capable space.
4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective devices space(s) as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

Note: A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by an enforcement agency. See vehicle Code Section 22511.2 for further details.

Y	N/A	RESPON. PARTY
☑	☐	EXISTING
		NO CHANGES TO LL SITE

TABLE 5.106.5.3.1		
TOTAL NUMBER OF ACTUAL PARKING SPACES	**NUMBER OF REQUIRED EV CAPABLE SPACES**	**NUMBER OF EVCS (EV CAPABLE SPACES PROVIDED WITH EVSE)[A,2]**
0-9	0	0
10-25	2	0
26-50	8	2
51-75	13	3
76-100	17	4
101-150	25	6
151-200	35	9
201 AND OVER	20 percent of actual parking spaces[1]	25 percent of EV capable spaces[1]

1. Calculation for spaces shall be rounded up to the nearest whole number.
2. The number of required EVCS (EV capable spaces provided with EVSE) in column 3 count toward the total number of required EV capable spaces shown in column 2.
3. At least one Level 2 EVSE shall be provided.

5.106.5.3.2 Electric vehicle charging stations (EVCS) EV capable spaces shall be provided with electric vehicle supply equipment (EVSE) to create EVCS in the number indicated in Table 5.106.5.3.1. The EVCS required by Table 5.106.5.3.1 shall be provided with Level 2 EVSE or DCFC as permitted in Section 5.106.5.3.2.1. At least one Level 2 EVSE shall be provided.

One EV charger with multiple connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.3.1 for each EV capable space is accumulatively supplied to the EV charger.

The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

5.106.5.3.2.1 The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE or EVCS with Level 2 EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

5.106.5.3.2.2 The installation of two low power Level 2 EV charging receptacles shall be permitted to reduce the minimum number of required EV capable spaces without EVSE in Table 5.106.5.3.1 by one.

5.106.5.3.3 Use of automatic load management systems (ALMS).
ALMS shall be permitted for EVCS. When ALMS is installed, the required electrical load capacity specified in Section 5.106.5.3.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.

5.106.5.3.4 Accessible EVCS.
When EVSE is installed, accessible EVSC shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.

Note: For EVCS signs, refer to Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

5.106.5.3.4 Accessible electric vehicle charging station (EVCS). When EVSE is installed, accessible EVCS shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.

5.106.5.3.5 Electric vehicle charging station signage. Electric vehicle charging stations shall be identified by signage or pavement markings in compliance with Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

Power allocation method shall include the following:
1. Use any kVA combination of EV capable spaces, low power Level 2, Level 2 or DCFC EVSEs.
2. At least one Level 2 EVSE shall be provided.

5.106.5.3.6 Electric vehicle charging stations (EVCS)—power allocation method. The power allocation method may be used as an alternative to the requirements in Section 5.106.5.3.1, Section 5.106.5.3.2 and associated Table 5.106.5.3.1. Use Table 5.106.5.3.6 to determine the total power in kVA required based on the total number of actual parking spaces.

TABLE 5.106.5.3.6		
TOTAL NUMBER OF ACTUAL PARKING SPACES	**MINIMUM TOTAL kVA @ 6.6 kVA**	**TOTAL kVA REQUIRED IN ANY COMBINATION OF EV CAPABLE,3,4 LOW POWER LEVEL 2, LEVEL 2, 1, 2 OR DCFC**
0-9	0	0
10-25	26.4	26.4
26-50	52.8	52.8
51-75	85.8	85.8
76-100	112.2	112.2
101-150	165	165
151-200	231	231
201 AND OVER	20 percent of actual parking spaces x 6.6	Total required kVA = P × .20 × 6.6 Where P = Parking spaces in facility

1. Level 2 EVSE @ 6.6 kVA minimum.
2. At least one Level 2 EVSE shall be provided.
3. Maximum allowed kVA to be utilized for EV capable spaces is 75 percent.
4. If EV capable spaces are utilized, they shall meet the requirements of Section 5.106.5.3.1 EV capable spaces.

Y	N/A	RESPON. PARTY
☐	☑	EXISTING
		NO CHANGES TO LL SITE

5.106.5.4 Additions or alterations to existing buildings or parking facilities [A]. [BSC-CG] Existing buildings or parking facilities being modified by one of the following shall comply with Section 5.106.5.4.1 or 5.106.5.4.2. When EVSE is installed, accessible EVCS shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.

1. When the scope of construction work includes an increase in power supply to an electric service panel as part of a parking facility addition or alteration.
2. When a new photovoltaic system is installed covering existing parking spaces.
3. When additions or alterations to existing buildings are triggered pursuant to code Section 301.3 and the scope of work includes an increase in power supply to an electric service panel.

Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcement agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
   d. Where demonstrated as impracticable excluding local utility service or utility infrastructure issues.
2. Remote parking facilities that do not have access to the building service panel.
3. Parking area lighting upgrades where no trenching is part of the scope of work.
4. Emergency repairs, including but not limited to water line break in parking facilities, natural disaster repairs, etc.

5.106.5.4.1 Existing buildings or parking areas without previously installed EV capable infrastructure [A]. When EV capable infrastructure does not exist at an existing parking facility or building, and the parking facility or building undergoes an addition or alteration listed in Section 5.106.5.4, construction shall include electric vehicle charging in compliance with either Section 5.106.5.3 and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 and associated Table 5.106.5.3.6 for the total number of actual parking spaces being added or altered.

5.106.5.4.2 Existing buildings or parking areas with previously installed EV capable infrastructure [A]. When EV capable infrastructure is available at an existing parking facility or building, and the parking facility or building is undergoing an addition or alteration listed in Section 5.106.5.4, construction shall include electric vehicle charging in compliance with either Section 5.106.5.3 and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 and associated Table 5.106.5.3.6 utilizing the existing EV capable allocated power and infrastructure for the total number of actual parking spaces being added or altered. If the area being added or altered exceeds the existing EV capable capacity, allocated power and infrastructure, provide additional EV charging as needed to comply with this section.

Y	N/A	RESPON. PARTY
☑	☐	EXISTING
		NO CHANGES TO LL SITE

5.106.5.5 Electric vehicle (EV) charging: medium-duty and heavy-duty. [N] [BSG-CG] Construction shall comply with Section 5.106.5.5.1 to facilitate future installation of electric vehicle supply equipment (EVSE). Construction for warehouses, grocery stores and retail stores, office buildings, and manufacturing facilities with planned off-street loading spaces shall also comply with Section 5.106.5.5.1 for future installation of medium- and heavy-duty EVSE.

Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

When EVSE(s) is/are installed, it shall be in accordance with the *California Building Code*, the *California Electrical Code* and as follows:

5.106.5.5.1 Electric vehicle charging readiness requirements for warehouses, grocery stores, office buildings, and manufacturing facilities and retail stores with planned off-street loading spaces. [N]

In order to avoid future demolition when adding EV supply and distribution equipment, spare raceway(s) or busway(s) and adequate capacity for transformer(s), service panel(s) or subpanel(s) shall be installed at the time of construction in accordance with the *California Electrical Code*. Construction plans and specifications shall include, but are not limited to, the following:

1. The transformer, main service equipment and subpanels shall meet the minimum power requirement in Table 5.106.5.5.1 to accommodate the dedicated branch circuits for the future installation of EVSE.

2. The construction documents shall indicate one or more location(s) convenient to the planned off-street loading space(s) reserved for medium- and heavy-duty ZEV charging cabinets and charging dispensers, and a pathway reserved for routing of conduit from the termination of the raceway(s) or busway(s) to the charging cabinet(s) and dispenser(s), as shown in Table 5.106.5.5.1.

3. Raceway(s) or busway(s) originating at a main service panel or a subpanel(s) serving the area where potential future medium- and heavy-duty EVSE will be located and shall terminate in close proximity to the potential future location of the charging equipment for medium- and heavy-duty vehicles.

4. The raceway(s) or busway(s) shall be of sufficient size to carry the minimum additional system load to the future location of the charging for medium- and heavy-duty ZEVs as shown in Table 5.106.5.5.1.

TABLE 5.106.5.5.1 RACEWAY CONDUIT AND PANEL POWER REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY EVSE [N]

BUILDING TYPE	BUILDING SIZE (SQ. FT.)	NUMBER OF OFF-STREET LOADING SPACES	ADDITIONAL CAPACITY REQUIRED (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER & PANEL
Grocery	10,000 to 90,000	1 or 2	200
		3 or Greater	400
	Greater than 90,000	1 or Greater	400
Manufacturing Facilities	10,000 to 50,000	1 or 2	200
	10,000 to 50,000	3 or Greater	400
	Greater than 50,000	1 or Greater	400
Office Buildings	10,000 to 135,000	1 or 2	200
	10,000 to 135,000	3 or Greater	400
	Greater than 135,000	1 or Greater	400
Retail	10,000 to 135,000	1 or 2	200
		3 or Greater	400
	Greater than 135,000	1 or Greater	400
Warehouse	20,000 to 256,000	1 or 2	200
		3 or Greater	400
	Greater than 256,000	1 or Greater	400

Y	N/A	RESPON. PARTY
☑	☐	EXISTING
		NO CHANGES TO LL SITE

5.106.5.6 Electric vehicle (EV) charging at public schools and community colleges. [DSA-SS] Electric vehicle infrastructure and electric vehicle charging stations shall comply with Section 5.106.5.6 and shall be provided in accordance with regulations in the California Building Code and the California Electrical Code.

Exceptions:
1. On a case-by-case basis where compliance with this section has been demonstrated to be not feasible based upon one of the following conditions,and with concurrence by the Division of the State Architect (DSA), compliance with Section 5.106.5.6 shall not be required.
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. The installation of EVCS is impracticable.
2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with Section 5.106.5.6.

5.106.5.6.1 EV capable spaces. EV capable spaces shall be provided in accordance with Table 5.106.5.6.1 and the following requirements:

1. Raceways complying with the California Electrical Code and no less than 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving the area and shall terminate in close proximity to the proposed location of the EV capable space and into a suitable listed cabinet, box, enclosure or equivalent. A common raceway may be used to serve multiple EV capable spaces.

2. A service panel or subpanel(s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS.

3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at each EV capable space.

4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective device space(s) as "EV CAPABLE." The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

TABLE 5.106.5.6.1		
TOTAL NUMBER OF ACTUAL PARKING SPACES	**NUMBER OF REQUIRED EV CAPABLE SPACES**	**NUMBER OF REQUIRED EVCS[2]**
0-9	0	0
10-25	4	1
26-50	8	2
51-75	13	3
76-100	17	4
101-150	25	6
151-200	35	9
201 AND OVER	20 percent of total spaces[1]	25 percent of EV capable spaces[1]

1. Calculation for spaces shall be rounded up to the nearest whole number.
2. Each EVCS shall reduce the number of required EV capable spaces by the same number.

5.106.5.6.2 Electric vehicle charging stations (EVCS). EV capable spaces shall be provided with EVSE to create EVCS in the number indicated in Table 5.106.5.6.1 and shall comply with Section 5.106.5.6.2. EVCS shall be serviced by Level 2 or Direct Current Fast Charging (DCFC) EVSE, or with EVSE in any combination of Level 2 and DCFC. Accessible EVCS shall be provided in accordance with *California Building Code* Chapter 11B.

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

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CLEVELAND DENVER GLENDORA IRVINE ORLANDO PHOENIX SAN FRANCISCO

Seal:

A Project for:

JD SPORTS #1425
LAS AMERICAS PREMIUM OUTLETS
4155 CAMINO DE LA PLAZA SPACE 0448A
SAN DIEGO, CA 92173

PORTFOLIO REFERENCE ONLY
Client:
JD SPORTS

3308 N. MITTHOEFFER ROAD
INDIANAPOLIS, IN 46235

GREEN BUILDING NOTES

Sheet #:
A00.11

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2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (July 2024 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

5.106.5.6.2.1 Reduced number of EV capable spaces. The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces indicated in Table 5.106.5.6.1 by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

5.106.5.6.2.2 Multiple connectors. EVSE with multiple vehicle connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.6.1 for each EV capable space is accumulatively supplied to the EVSE.

5.106.5.6.2.3 Use of automatic load management systems (ALMS). ALMS shall be permitted for EVCS installed in accordance with Section 5.105.5.6.2. When ALMS is installed, the required electrical load capacity specified in Section 5.106.5.6.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.

5.106.5.6.3 EVCS alternative compliance. In lieu of compliance with Section 5.106.5.6.2, EVCS shall be provided with Level 1, low power Level 2, or Level 2, or any combination of Level 1, low power Level 2 or Level 2 EVSE such that the total power supplied by the combination of EVSE meets the minimum power indicated in Table 5.106.5.6.3, based on the total number of actual parking spaces in each parking facility.

TABLE 5.106.5.6.3

NUMBER OF PARKING SPACES IN A PARKING FACILITY	MINIMUM TOTAL POWER (KVA) REQUIRED FOR EVCS
0-9	0
10-25	7
26-50	14
51-75	20
76-100	27
101-150	40
151-200	60
201 AND OVER	Total required KVA = P × .05 × 6.6 Where P = Parking spaces in facility

5.106.5.6.4 EVCS for alterations of or additions to parking facilities. Alterations of or additions to parking facilities shall provide EVCS in compliance with Section 5.106.5.6.4. The installation of infrastructure for EV capable spaces required to be provided without EVSE shall not be required.

5.106.5.6.4.1 Alterations of and additions to parking facilities. EVCS shall be provided in accordance with the number indicated in Table 5.106.5.6.1 or minimum power indicated in Table 5.106.5.6.3 when the scope of work includes an increase in power supply to an electric panel serving light fixtures illuminating the parking area or when area containing parking spaces is added to a parking facility. The number of required EVCS shall be based on the total number of existing and new parking spaces in the parking facility.

5.106.5.6.4.2 Alterations consisting of the installation of photovoltaic systems. EVCS shall be provided in accordance with the number indicated in Table 5.106.5.6.1 or maximum power indicated in Table 5.106.5.6.3 when a new photovoltaic system is installed in an existing parking facility.

5.106.5.6.5 Requirement to install EVSE. Level 2 EVSE shall be provided in all existing EV capable spaces to create EVCS when a project is required by California Administrative Code Section 4-309 to be submitted for plan approval to the Division of the State Architect. When EVSE is installed in existing EV capable spaces, accessible EVCS shall be provided in accordance with *California Building Code* Chapter 11B.

Exception: Projects in which improvements in parking areas consist only of accessibility improvements are not required to comply with Section 5.106.5.6.5.

EXISTING — NO CHANGES TO LL SITE

5.106.8 LIGHT POLLUTION REDUCTION. [N]. I Outdoor lighting systems shall be designed and installed to comply with the following:

1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and
2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8);
3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and
4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]

1. Luminaires that qualify as exceptions in Sections 130.2 (b) and 140.7 of the California Energy Code.
2. Emergency lighting.
3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.
5. Luminaires with less than 6,200 initial luminaire lumens.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS 1,2

ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING 3					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	B3	B4	B4
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	B3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	B0	B0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
For area lighting 3	N/A	U0	U0	U0	U0
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR
MAXIMUM ALLOWABLE GLARE RATING 4 (G)					
MAXIMUM ALLOWABLE GLARE RATING 4 (G)	N/A	G1	G2	G3	G4
MAXIMUM ALLOWABLE GLARE RATING 4 (G)	N/A	G0	G1	G1	G2
MAXIMUM ALLOWABLE GLARE RATING 4 (G)	N/A	G0	G0	G1	G1
MAXIMUM ALLOWABLE GLARE RATING 5 (G)	N/A	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the *California Energy Code* and Chapter 10 of the *California Administrative Code*.

2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.

3. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaries located in these areas shall meet *U*-value limits for "all other outdoor lighting"

EXISTING — NO CHANGES TO LL SITE

5.106.8.1 Facing- Backlight
Luminaries within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line.

Exception: Corners. If two property lines (or two segments of the same property line) have equidistant point to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is directly behind the luminaire. The luminaire shall still use the distance to the nearest points(s) on the property lines to determine the required backlight rating.

5.106.8.2 Facing-Glare.
For luminaires covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within 2MH of the luminaire then the luminaire shall comply with the more stringent glare rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point on the nearest property line within the front hemisphere.

Note: [N]
1.See also *California Building Code*, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.
2.Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, *California Energy Code* Tables 130.2-A and 130.2-B.
3. Refer to the *California Building Code* for requirements for additions and alterations.

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

1. Swales.
2. Water collection and disposal systems.
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.
   Exception: Additions and alterations not altering the drainage path.

EXISTING — NO CHANGES TO LL SITE

5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.

Exceptions: Surface parking area covered by solar photovoltaic shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.

5.106.12.2 Landscape areas. Shade tress plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.

Exceptions: Playfields for organized sport activity are not included in the total area calculation.

5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.

Exceptions:
1. Walks, hardscape areas covered by solar photovoltaic shade structures or shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.
2. Designated and marked play areas of organized sport activity are not included in the total area calculation.

DIVISION 5.2 ENERGY EFFICIENCY

SECTION 5.201 GENERAL

5.201.1 Scope [BSC-CG]. ***California Energy Code [DSA-SS].*** For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

SECTION 5.301 GENERAL

5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.

SECTION 5.302 DEFINITIONS

5.302.1 Definitions. The following terms are defined in Chapter 2 *(and are included here for reference)*

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which ae two major influences on the amount of water that needs to be applied to the landscape.

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction.

RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water treated to remove waste matter attaining a quality that is suitable to use the water again.

SUBMETER. [HCD 1] A secondary device beyond a meter that measures water consumption of an individual rental unit within a multiunit residential structure or mixed-use residential and commercial structure. (See Civic Code Section 1954.202 (g) and Water code Section 517 for additional details.)

WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO).

SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2.

NO OUTDOOR WORK IN SCOPE

5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:

1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.

2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:
   a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).
   b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s).
   c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.

PLUMBING

PLUMBING

5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

5.303.3.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

5.303.3.2 Urinals.
5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.

5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.

5.303.3.3 Showerheads. [BSC-CG]
5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.
Note: A hand-held shower shall be considered a showerhead.

5.303.3.3 Showerheads. [BSC-CG]
5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.
Note: A hand-held shower shall be considered a showerhead.

5.303.3.4 Faucets and fountains.
5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.

5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than1.8 gallons per minute/20 [rim space (inches) at 60 psi].

5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle.

5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi].

Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.

5.303.3.4.6 Pre-rinse spray value
When installed, shall meet the requirements in the *California Code of Regulations*, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (d)(7), and shall be equipped with an integral automatic shutoff.

FOR REFERENCE ONLY: The following table and code section have been reprinted from the *California Code of Regulations*, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A).

TABLE H-2

STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019

PRODUCT CLASS [spray force in ounce force (ozf)]	MAXIMUM FLOW RATE (gpm)
Product Class 1 (≤ 5.0 ozf)	1.00
Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf)	1.20
Product Class 3 (> 8.0 ozf)	1.28

PLUMBING — NO COMM. KITCHEN WORK IN SCOPE

5.303.4 COMMERCIAL KITCHEN EQUIPMENT.

5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.
Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation.

5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.

5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code*, and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code* and in Chapter 6 of this code.

SECTION 5.304 OUTDOOR WATER USE

5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

NO OUTDOOR WORK IN SCOPE

Notes:
1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2.
2. MWELO and supporting documents, including a water budget calculator, are available at: https://www.water.ca.gov/.

NO OUTDOOR WORK IN SCOPE

5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, *California Code of Regulations*, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.

5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet.

5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.401 GENERAL

5.401.1 SCOPE. The provisions of this chapter specify the requirements of achieving material conservation, resource efficiency, and greenhouse gas (GHG) emission reduction through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, the installation of products with lower GHG emissions and building commissioning or testing and adjusting.

SECTION 5.402 DEFINITIONS

5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper.

BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities.

BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements.

BUY CLEAN CALIFORNIA ACT (BCCA). The Buy Clean California Act (BCCA) (Public Contract Code Sections 3500-3505) targets carbon emissions associated with the production of structural steel (hot-rolled sections, hollow structural sections, and plate), concrete reinforcing steel, flat glass, and mineral wool board insulation. The maximum acceptable global warming potential (GWP) limits are established by the Department of General Services (DGS), in consultation with the California Air Resources Board (CARB).

CRADLE-TO-GRAVE. Activities associated with a product or building's life cycle from the extraction stage through disposal stage, and covering modules A1 through C4 in accordance with ISO Standards 14025 and 21930.

ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste.

REFERENCE STUDY PERIOD. The period of use for the building, in years, that will be assumed for life cycle assessment.

TEST. A procedure to determine quantitative performance of a system or equipment

TYPE III ENVIRONMENTAL PRODUCT DECLARATION (EPD). A third-party verified report that summarizes how a product impacts the environment. Type III EPDs can be either product-specific, factory-specific, or industry-wide EPDs. See "Cradle-to-Gate."

FACTORY-SPECIFIC EPD. A product-specific Type III EPD in which the environmental impacts can be attributed to a single manufacturer and manufacturing facility.

INDUSTRY-WIDE EPD (IW-EPD). A Type III EPD in which the environmental impacts are an average of the typical manufacturing impacts for a range of products within the same product category for a group of manufacturers.

PRODUCT-SPECIFIC EPD. A Type III EPD in which the environmental impacts can be attributed to a product design and manufacturer across multiple facilities.

SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT

5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent.

CONTRACTOR — NO OUTDOOR WORK IN SCOPE

5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods.

5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.

5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:

5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:

1. An installed awning at least 4 feet in depth.
2. The door is protected by a roof overhang at least 4 feet in depth.
3. The door is recessed at least 4 feet.
4. Other methods which provide equivalent protection.

5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.

SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.

5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that:

1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.

Exceptions to Sections 5.408.1.1 and 5.408.1.2:

1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.

5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency.

5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

Notes:

1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-Resources-List-Folder/CALGreen may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

CONTRACTOR

5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.

Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/universalwaste/

CONTRACTOR

5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.

Notes:

1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material.
2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)

SECTION 5.409 LIFE CYCLE ASSESSMENT

5.409.1 SCOPE. [BSC-CG] Effective July 1, 2024, projects consisting of newly constructed building(s) with a combined floor area of 100,000 square feet or greater shall comply with either Section 5.409.2 or Section 5.409.3. Alteration(s) to existing building(s) where the combined altered floor area is 100,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 100,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3. Effective January 1, 2026, the combined floor area shall be 50,000 square feet or greater.

[DSA-SS] Projects consisting of newly constructed building(s) with a combined floor area of 50,000 square feet or greater shall comply with either Section 5.409.2 or Section 5.409.3. Alteration(s) to existing building(s) where the combined altered floor area is 50,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 50,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3.

mcgarchitecture.com
CLEVELAND DENVER GLENDORA IRVINE ORLANDO PHOENIX SAN FRANCISCO
Seal:
A Project for:
JD SPORTS #1425
LAS AMERICAS PREMIUM OUTLETS
4155 CAMINO DE LA PLAZA SPACE 0448A
SAN DIEGO, CA 92173
PORTFOLIO REFERENCE ONLY
Client:
JD SPORTS
3308 N. MITTHOEFFER ROAD
INDIANAPOLIS, IN 46235

GREEN BUILDING NOTES

Sheet #:
A00.12

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2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (July 2024 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

Y	N/A	RESPON. PARTY	
	✓		ALTER EXISTING BLDG. W/ LESS THAN 50,000 SF ONLY. NO ADDITIONS IN SCOPE

5.409.2 Whole building life cycle assessment. Projects shall conduct a cradle-to-grave whole building life cycle assessment performed in accordance with ISO 14040 and ISO 14044, excluding operating energy, and demonstrating a minimum 10-percent reduction in global warming potential (GWP) as compared to a reference baseline building of similar size, function, complexity, type of construction, material specification, and location that meets the requirements of the California Energy Code currently in effect. Software used to conduct the whole building life cycle assessment, including reference baseline building, shall have a data set compliant with ISO 14044, and ISO 21930 or EN 15804, and the software shall conform to ISO 21931 and/or EN 15978. The software tools and data sets shall be the same for evaluation of both the baseline building and the proposed building.

Notes:
1. Software for calculating whole building life cycle assessment is available for free at Athena Sustainable Materials Institute (https://calculatelca.com/software/impact-estimator/) and OneClick LCA-Planetary (www.oneclicklca.com/planetary). Paid versions include, but are not limited to, Sphera GaBi Solutions (gabi.sphera.com), SimaPro (simapro.com), One-Click LCA (www.oneclicklca.com) and Tally for Revit (apps.autodesk.com).

2. ASTM E2921-22 "Standard Practice for Minimum Criteria for Comparing Whole Building Life Cycle Assessments for Use with Building Codes, Standards, and Rating Systems" may be consulted for the assessment.

3. In addition to the required documentation specified in Section 5.409.2.3, Worksheet WS-9 may be required by the enforcing entity to demonstrate compliance with the requirements.

5.409.2.1 Building components. Building enclosure components included in the assessment shall be limited to glazing assemblies, insulation, and exterior finishes. Primary and secondary structural members included in the assessment shall be limited to footings and foundations, and structural columns, beams, walls, roofs, and floors.

5.409.2.2 Reference study period. The reference study period of the proposed building shall be equal to the reference baseline building and shall be 60 years.

5.409.2.3 Verification of compliance. A summary of the GWP analysis produced by the software and Worksheet WS-4 signed by the design professional of record shall be provided in the construction documents as documentation of compliance. A copy of the whole building life cycle assessment which includes the GWP analysis produced by the software, in addition to maintenance and training information, shall be included in the operation and maintenance manual and shall be provided to the owner at the close of construction. The enforcing agency may require inspection and inspection reports in accordance with Sections 702.2 and 703.1 during and at completion of construction to demonstrate substantial conformance. Inspection shall be performed by the design professional of record or third party acceptable to the enforcing agency.

Y	N/A	RESPON. PARTY	
	✓		ALTER EXISTING BLDG. W/ LESS THAN 50,000 SF ONLY. NO ADDITIONS IN SCOPE

5.409.3 Product GWP compliance—prescriptive path. Each product that is permanently installed and listed in Table 5.409.3 shall have a Type III environmental product declaration (EPD), either product-specific or factory-specific.

TABLE 5.409.3
PRODUCT GWP LIMITS

BUY CLEAN CALIFORNIA MATERIALS PRODUCT CATEGORY[1]	MAXIMUM ACCEPTABLE GWP VALUE (unfabricated) ($GWP_{allowed}$)	UNIT OF MEASUREMENT
Hot-rolled structural steel sections	1.77	MT CO_2e/MT
Hollow structural sections	3.00	MT CO_2e/MT
Steel plate	2.61	MT CO_2e/MT
Concrete reinforcing steel	1.56	MT CO_2e/MT
Flat glass	2.50	kg CO_2e/MT
Light-density mineral wool board insulation	5.83	kg CO_2e/MT
Heavy-density mineral wool board insulation	14.28	kg CO_2e/MT
Concrete, Ready-Mixed[2, 3]		
CONCRETE PRODUCT CATEGORY	**MAXIMUM GWP ALLOWED VALUE ($GWP_{allowed}$)**	**UNIT OF MEASUREMENT**
up to 2499 psi	450	kg CO_2e/m^3
2500−3499 psi	489	kg CO_2e/m^3
3500−4499 psi	566	kg CO_2e/m^3
4500−5499 psi	661	kg CO_2e/m^3
5500−6499 psi	701	kg CO_2e/m^3
6500 psi and greater	799	kg CO_2e/m^3
Concrete, Lightweight Ready-Mixed[2]		
CONCRETE PRODUCT CATEGORY	**MAXIMUM GWP ALLOWED VALUE ($GWP_{allowed}$)**	**UNIT OF MEASUREMENT**
up to 2499 psi	875	kg CO_2e/m^3
2500−3499 psi	956	kg CO_2e/m^3
3500−4499 psi	1039	kg CO_2e/m^3

1. The GWP values of the products listed in Table 5.409.3 are based on 175 percent of Buy Clean California Act (BCCA) GWP values, except for concrete products which are not included in the BCCA.
2. For concrete, 175 percent of the National Ready Mixed Concrete Association (NRMCA) 2022 version 3 Pacific Southwest regional benchmark values are used for the GWP allowed, except for High Early Strength.
3. Concrete High Early Strength ready-mixed shall be calculated at 130 percent of the ready-mixed concrete GWP allowed values for each product category**.**

5.409.3.1 Products shall not exceed the maximum GWP value specified in Table 5.409.3.

Exception: Concrete may be considered one product category to meet compliance with this section. A weighted average of the maximum GWP for all concrete mixes installed in the project shall be less than the weighted average maximum GWP allowed per Table 5.409.3 using Exception Equation 5.409.3.1. Calculations shall be performed with consistent units of measurement for the material quantity and the GWP value.

For the purposes of this exception, industry-wide EPDs are acceptable.

Exception EQUATION 5.409.3.1

$GWP_n < GWP_{allowed}$
where
$GWP_n = \Sigma\ (GWP_n)(v_n)$
and
$GWP_{allowed} = \Sigma\ (GWP_{allowed})(v_n)$
and
$_n$ = each concrete mix installed in the project
GWP_n = the GWP for concrete mix $_n$ per concrete mix EPD, in kg CO2e/m3
$GWP_{allowed}$ = the GWP potential allowed for concrete mix $_n$ per Table 5.409.3
v_n = the volume of concrete mix $_n$ installed in the project, in m3

Y	N/A	RESPON. PARTY	
		TENANT/LL	

5.409.3.2 Verification of compliance. Calculations to demonstrate compliance, Type III EPDs for products required to comply, if included in the project, and Worksheet WS-5 signed by the design professional of record shall be provided on the construction documents. Updated EPDs for products used in construction shall be provided to the owner at the close of construction and to the enforcement entity upon request. The enforcing agency may require inspection and inspection reports in accordance with Sections 702.2 and 703.1 during and at completion of construction to demonstrate substantial conformance. Inspection shall be performed by the design professional of record or third party acceptable to the enforcing agency.

SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS

5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section.

5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site.

Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space floor area.

5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the *Public Resources Code*. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.

	✓		

5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and L-occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply.

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements

Commissioning requirements shall include:

1. Owner's or Owner representative's project requirements.
2. Basis of design.
3. Commissioning measures shown in the construction documents.
4. Commissioning plan.
5. Functional performance testing.
6. Documentation and training.
7. Commissioning report.

Exceptions:

1. Unconditioned warehouses of any size.
2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.
3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.
4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.

Note: For the purposes of this section, unconditioned shall mean a building, area or room which does not provide heating and/or air conditioning.

Informational Notes:

1. . Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the *California Energy Code.*

5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:
1. Environmental and sustainability goals.
2. Building sustainable goals.
3. Indoor environmental quality requirements.
4. Project program, including facility functions and hours of operation, and need for after hours operation.
5. Equipment and systems expectations.
6. Building occupant and operation and maintenance (O&M) personnel expectations.

5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse system.

5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:
1. General project information.
2. Commissioning goals.
3. Systems to be commissioned. Plans to test systems and components shall include:
   a. An explanation of the original design intent.
   b. Equipment and systems to be tested, including the extent of tests.
   c. Functions to be tested.
   d. Conditions under which the test shall be performed.
   e. Measurable criteria for acceptable performance.
4. Commissioning team information.
5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.

5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in *California Code of Regulations* (CCR), Title 8, Section 5142, and other related regulations.

5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:
1. Site information, including facility description, history and current requirements.
2. Site contact information.
3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.
4. Major systems.
5. Site equipment inventory and maintenance notes.
6. A copy of verifications required by the enforcing agency or this code.
7. Other resources and documentation, if applicable.

5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:
1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).
2. Review and demonstration of servicing/preventive maintenance.
3. Review of the information in the Systems Manual.
4. Review of the record drawings on the system/equipment.

5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.

	✓		CONTRACTOR/ ENGINEER

5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

Y	N/A	RESPON. PARTY	

5.410.4.2 (Reserved)

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific systems.

5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse systems.

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL

5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.

SECTION 5.502 DEFINITIONS

5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route.

A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made.

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32° Fahrenheit.

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I–joists or finger–jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a).

Note: See CCR, Title 17, Section 93120.1.

DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.).

DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.

ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the *California Electrical Code*, off-road, self-propoelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included.

ELECTRIC VEHICLE CHARGING STATION(S) (EVCS)). One or more spaces intended for charging electric vehicles.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest.

EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections.

GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one.

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.

HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009)**.**

LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter.

LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999.

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundreths of a gram (g O^3/g ROC).

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).

PSIG. Pounds per square inch, guage.

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

SCHRADER ACCESS VALVES. Access fittings with a valve core installed.

SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter.

SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units.

VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).

Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question.

Y	N/A	RESPON. PARTY	
	✓		
		CONTRACTOR	
		CONTRACTOR	
		CONTRACTOR /ARCHITECT	

SECTION 5.503 FIREPLACES

5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.

5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.

SECTION 5.504 POLLUTANT CONTROL

5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992 Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:
1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT[1,2]

Less Water and Less Exempt Compounds in Grams per Liter

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

TABLE 5.504.4.2 - SEALANT VOC LIMIT

Less Water and Less Exempt Compounds in Grams per Liter

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

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CLEVELAND DENVER GLENDORA IRVINE ORLANDO PHOENIX SAN FRANCISCO
Seal:
A Project for:
JD SPORTS #1425
LAS AMERICAS PREMIUM OUTLETS
4155 CAMINO DE LA PLAZA SPACE 0448A
SAN DIEGO, CA 92173
PORTFOLIO REFERENCE ONLY
Client:
JD SPORTS
3308 N. MITTHOEFFER ROAD
INDIANAPOLIS, IN 46235

GREEN BUILDING NOTES

Sheet #:
A00.13

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2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 4 (July 2024 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of *California Code of Regulations*, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS[2,3]

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS

COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS[1]	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS
2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.
3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:
1. Manufacturer's product specification
2. Field verification of on-site product containers

5.504.4.4 Carpet Systems.
All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers." Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health,"Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers,"Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:
1. Product certifications and specifications.
2. Chain of custody certifications.
3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards.
5. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS[1]

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD[2]	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.
2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

5.504.4.6 Resilient flooring systems. Where resilient flooring is installed, at least 80 percent of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health,"Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350)

See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

5.504.4.7 Thermal insulation
Comply with the requirements of the California Department of Public Health, "Standard Method of the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, "Version 1.2, January 2017 (Emission testing method for California Specification 01350).
See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.7.1 Verification of compliance.
Documentation shall be provided verifying that thermal insulation materials meet the pollutant emission limits.

5.504.4.8 Acoustical ceiling and wall panels.
Comply with the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, " Version 1.2, January 2017 (Emission testing method for California Specification 01350).
See California Department of Public Health's website for certification programs and testing labs.

5.504.4.8.1 Verification of compliance. Documentation shall be provided verifying that acoustical finish materials meet the pollutant emission limits.

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exceptions: Existing mechanical equipment.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

OWNER

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL

ARCHITECT

5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY

ENGINEER

5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the *California Energy Code*, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

ENGINEER

5.506.2 CARBON DIOXIDE (CO_2) MONITORING. For buildings or additions equipped with demand control ventilation, CO_2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

5.506.3 Carbon dioxide (CO2) monitoring in classrooms.
(DSA-SS) Each public K-12 school classroom, as listed in Table 120.1-A of the *California Energy Code*, shall be equipped with a carbon dioxide monitor or sensor that meets the following requirements:
1. The monitor or sensor shall be permanently affixed in a tamper-proof manner in each classroom between 3 and 6 feet (914 mm and 1829 mm) above the floor and at least 5 feet (1524 mm) away from door and operable windows.
2. When the monitor or sensor is not integral to an Energy Management Control System (EMCS), the monitor or sensor shall display the carbon dioxide readings on the device. When the sensor is integral to an EMCS, the carbon dioxide readings shall be available to and regularly monitored by facility personnel.
3. A monitor shall provide notification though a visual indicator on the monitor when the carbon dioxide levels in the classroom have exceeded 1,100ppm. A sensor integral to an EMCS shall provide notification to facility personnel through a visual and/or audible indicator when the carbon dioxide levels in the classroom have exceeded 1,100ppm.
4. The monitor or sensor shall measure carbon dioxide levels at minimum 15- minute intervals and shall maintain a record of previous carbon dioxide measurements of not less than 30 days duration.
5. The monitor or sensor used to measure carbon dioxide levels shall have the capacity to measure carbon dioxide levels with a range of 400ppm to 2000ppm or greater.
6. The monitor or sensor shall be certified by the manufacturer to be accurate within 75ppm at 1,000ppm carbon dioxide concentration and shall be certified by the manufacturer to require calibration no more frequently than once every 5 years.

SECTION 5.507 ENVIRONMENTAL COMFORT

5.507.4 ACOUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

   Exceptions:

   1. L_{dn} or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
   2. L_{dn} or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or L_{dn} noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

5.507.4.1.1. Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{eq} - 1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY

5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO_2), and potentially other refrigerants.

5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

5.508.2.1.2.1 Anchorage. One-fouth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.

5.508.2.2 Valves. Valves Valves and fittings shall comply with the *California Mechanical Code* and as follows.

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.

5.508.2.2.2.2.1 Chain tethers. Chain tethers to fit ovr the stem are required for valves designed to have seal caps.

Exception: Valves with seal caps that are not removed from the valve during stem operation.

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances.

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device tha indicates the level of refrigerant in the receiver.

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and charging.

5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.

5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging.

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes.

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes.

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

1. State certified apprenticeship programs.
2. Public utility training programs.
3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
4. Programs sponsored by manufacturing organizations.
5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

1. Certification by a national or regional green building program or standard publisher.
2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
3. Successful completion of a third party apprentice training program in the appropriate trade.
4. Other programs acceptable to the enforcing agency.

Notes:

1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

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Seal:

A Project for:

JD SPORTS #1425
LAS AMERICAS PREMIUM OUTLETS
4155 CAMINO DE LA PLAZA SPACE 0448A
SAN DIEGO, CA 92173

PORTFOLIO REFERENCE ONLY

Client:
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GREEN BUILDING NOTES

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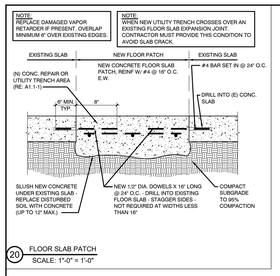
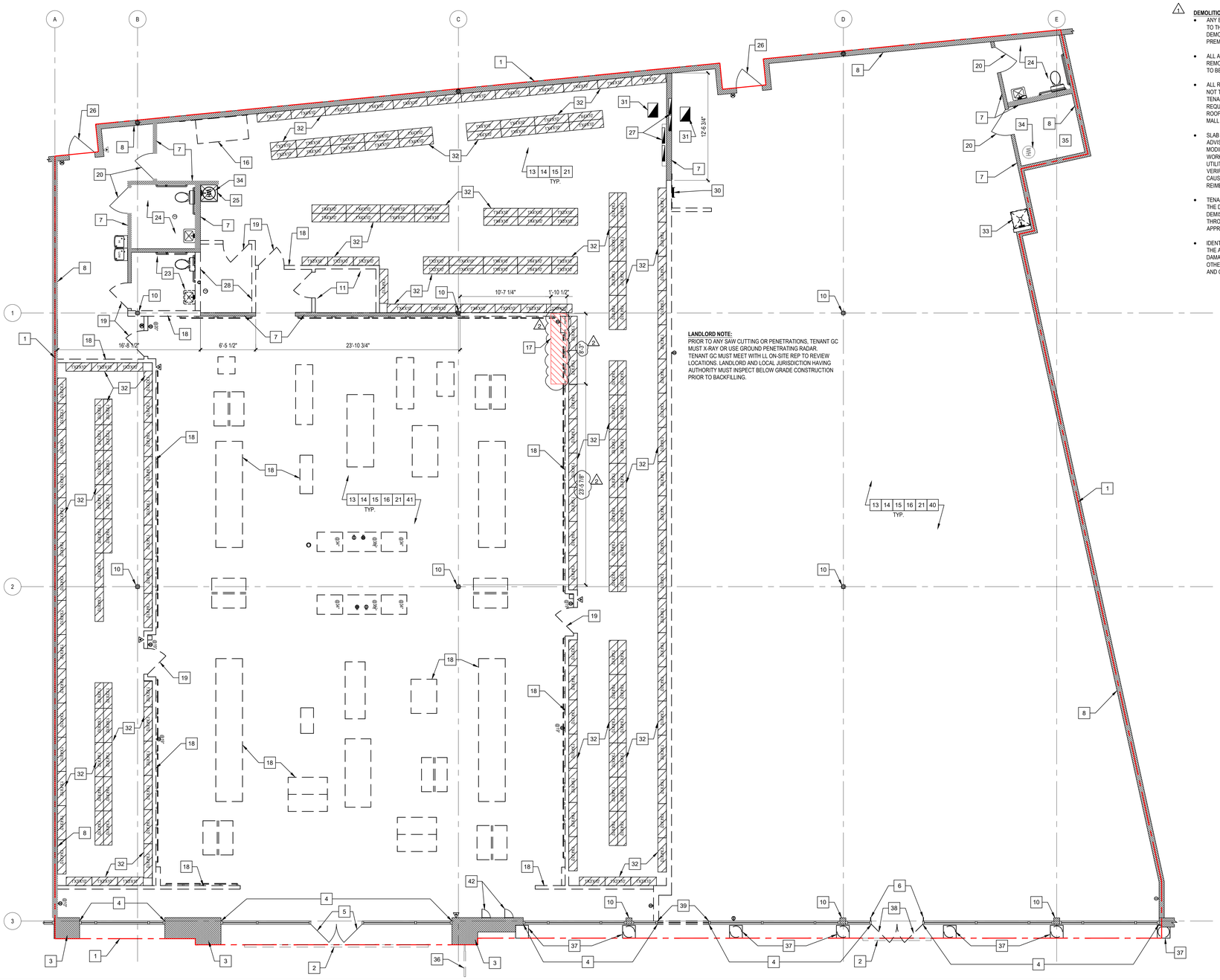


20 FLOOR SLAB PATCH
SCALE: 1"-0" = 1'-0"



18 DEMOLITIONS
SCALE: 3/16" = 1'-0"

NORTH

DEMOLITION COMMENTS:

- ANY EXISTING EQUIPMENT OR COMPONENT IN OR PERTAINING TO THE PREMISES THAT IS BEING ABANDONED MUST BE DEMOLISHED COMPLETELY AND PROPERLY REMOVED FROM PREMISES.
- ALL ABOVE GROUND UTILITY LINES NOT TO BE RE-USED MUST BE REMOVED TO POINT OF ORIGIN. ALL UNDER SLAB UTILITY LINES TO BE CUT, CAPPED AND SEALED PER CODE.
- ALL ROOF MOUNTED EQUIPMENT ABOVE THE LEASED PREMISES NOT TO BE RE-USED MUST BE REMOVED BY TENANT GC AT TENANT EXPENSE. ROOF MUST BE PROPERLY PATCHED BY MALL REQUIRED ROOFER. ROOF CURBS MUST BE REMOVED AND ROOF PATCHED - DO NOT CAP. COORDINATE ALL WORK WITH MALL OPERATIONS DIRECTOR.
- SLAB REQUIREMENTS: TENANT'S GENERAL CONTRACTOR SHALL ADVISE THE OPERATION TEAM PRIOR TO ANY SLAB MODIFICATIONS OR REMOVAL. TENANT GC SHALL VERIFY THAT WORK SHALL NOT CONFLICT WITH ANY EXISTING STRUCTURAL, UTILITY, OR OTHER UNDER-SLAB CONDITION. (NONDESTRUCTIVE VERIFICATION MAYBE REQUIRED.) ANY DAMAGE OR DOWNTIME CAUSED BY TENANT'S WORK SHALL BE REPAIRED AND REIMBURSED AT TENANT'S EXPENSE.
- TENANT'S CONSTRUCTION WORK IS TO BE PERFORMED INSIDE THE DEMISED SPACE, AND CONTRACTOR ENTRY INTO THE DEMISED SPACE DURING CONSTRUCTION IS TO BE ONLY THROUGH THE REAR DOOR UNLESS ALTERNATE MEANS ARE APPROVED BY PROPERTY MANAGEMENT.
- IDENTIFY ALL WIRING, CONDUITS, PIPING OR OTHER ITEMS IN THE ABOVE CEILING SPACE PRIOR TO REMOVING IT. ANY DAMAGE OR INTERRUPTION OF SERVICE TO FIRE ALARM OR OTHER BUILDING MONITORING SYSTEMS SHALL BE REPAIRED AND CHARGED TO THE TENANT GC.

1. COORDINATE WITH M.E.P. DRAWINGS IF EXISTING EQUIPMENT IS TO REMAIN.
2. GENERAL CONTRACTOR SHALL VERIFY FIELD CONDITIONS AND NOTIFY THE ARCHITECT OF ALL DISCREPANCIES BEFORE PROCEEDING WITH WORK.
3. PREVENT MOVEMENT OR SETTLEMENT OF EXISTING STRUCTURE(S). PROVIDE AND PLACE BRACING OR SHORING AND BE RESPONSIBLE FOR SAFETY AND SUPPORT OF STRUCTURE. ASSUME LIABILITY FOR SUCH MOVEMENT, SETTLEMENT, DAMAGE OR INJURY.
4. HVAC SUBCONTRACTOR TO INSPECT EXISTING CONDITIONS AND DETERMINE WHETHER ANY COMPRESSOR REFRIGERANT LINES ARE PRESENT THAT MUST BE PROPERLY DRAINED (TO E.P.A. STANDARDS) PRIOR TO DEMOLITION.
5. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
6. NO WORK IS TO BE PERFORMED OUTSIDE THE LEASE LINE AS DEFINED BY THE LANDLORD.
7. REPAIR ALL DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED AT NO COST TO THE OWNER.
8. TEMPORARY BARRICADE BY BOSTON BARRICADE. ANY ADDITIONAL LL REQUIREMENTS FOR SEALING BARRICADE FROM DUST/SMELL/ETC. TO THE OUTSIDE OF THE SPACE IS THE RESPONSIBILITY OF THE GC.
9. PLACE MARKERS TO INDICATE LOCATIONS OF DISCONNECTED SERVICES. IDENTIFY SERVICE LINES AND CAPPING LOCATIONS ON PROJECT RECORD DOCUMENTS.
10. CEASE OPERATIONS AND NOTIFY THE OWNER IMMEDIATELY IF SAFETY OF STRUCTURE APPEARS TO BE ENDANGERED. TAKE ALL NECESSARY PRECAUTIONS TO PROPERLY SUPPORT THE STRUCTURE. DO NOT RESUME OPERATIONS UNTIL SAFETY IS RESTORED.
11. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXTENT OF DEMOLITION WITH THE OWNER AND THE LANDLORD AND BRING ANY DISCREPANCIES TO BOTH PARTIES ATTENTION PRIOR TO FINALIZING THE BID AND COMMENCEMENT OF WORK.
12. A FIRE EXTINGUISHER MUST BE KEPT ON THE PREMISES AT ALL TIMES.
13. EXCEPT WHERE NOTED OTHERWISE, MAINTAIN POSSESSION OF MATERIALS BEING DEMOLISHED. IMMEDIATELY REMOVE FROM SITE.
14. PROVIDE TEMPORARY SERVICES AS NECESSARY FOR CONTINUOUS OPERATION FOR ALL LIFE/SAFETY DEVICES.
15. WHERE THE EXISTING CONCRETE SLAB IS TO BE PATCHED AND REPAIRED, THE GENERAL CONTRACTOR SHALL MAINTAIN THE EXISTING FIRE RATING OF THE EXISTING SLAB, PATCH WORK TO BE STRUCTURALLY SOUND AND CAPABLE OF SUPPORTING LIVE LOADS FOR MERCANTILE OCCUPANCIES AS PER LOCAL CODES AND JURISDICTION.
16. ARRANGE & PAY FOR DISCONNECTING, REMOVING & CAPPING UTILITY SERVICES WITHIN AREAS OF DEMOLITION. DISCONNECT & STUB-OFF. NOTIFY AFFECTED UTILITY COMPANY & BUILDING MANAGER IN ADVANCE & OBTAIN APPROVAL BEFORE STARTING THIS WORK.
17. DEMOLISH IN AN ORDERLY AND CAREFUL MANNER AS REQUIRED TO ACCOMMODATE NEW WORK, INCLUDING THAT REQUIRED FOR CONNECTION TO THE EXISTING BUILDING. PROTECT EXISTING FOUNDATIONS AND SUPPORTING STRUCTURAL MEMBERS. PHASE DEMOLITION IN ACCORDANCE WITH CONSTRUCTION SCHEDULE.
18. G.C. TO COORDINATE ALL WORK BELOW SLAB W/ LL & SHALL PATCH & REPAIR ANY/ALL DAMAGE THAT MAY OCCUR DURING DEMO WORK.
19. PROTECT ALL ADJACENT SURFACES THAT ARE TO REMAIN DURING DEMOLITION. PATCH AND REPAIR ALL DAMAGED ADJACENT SURFACES THAT ARE TO REMAIN AND PREPARE TO RECEIVE NEW FINISH PER ELEVATIONS.
20. REFER TO THE NEW CONSTRUCTION PLAN TO ENSURE PROPER DEMOLITION IN RELATION TO NEW CONSTRUCTION.
21. DO NOT DEMOLISH LOAD BEARING WALLS THAT WILL COMPROMISE THE STRUCTURAL INTEGRITY OF THE BUILDING. NOTIFY ARCHITECT OF STRUCTURAL ISSUES ARISING FROM DEMOLITION.
22. DEMOLITION INCLUDES CORING/SAW CUTTING OF SLAB FOR ELECTRICAL. COORDINATE WITH ELECTRICAL DRAWINGS FOR NEW CONSTRUCTION. COORDINATE WITH LANDLORD PRIOR TO ANY SLAB WORK. A VAPOR BARRIER MUST BE MAINTAINED.
23. WHERE DEMOLITION/NEW WORK OCCURS ADJACENT TO EXISTING TO REMAIN, PATCH AND REPAIR ADJACENT CONDITIONS FOR A UNIFORM APPEARANCE.
24. VERIFY CONDITIONS PRIOR TO COMMENCEMENT OF WORK AND NOTIFY ARCHITECT OF DISCREPANCIES.VERIFY FLOOR IS LEVEL THROUGHOUT. NOTIFY ARCHITECT OF DISCREPANCIES.
25. VERIFY FLOOR IS LEVEL THROUGHOUT. NOTIFY ARCHITECT OF DISCREPANCIES
26. FOLLOW LANDLORD DEMOLITION RULES AND REQUIREMENTS.
27. VERIFY LOCATIONS OF ALL EXISTING WALLS, COLUMNS AND LEASE LINE PRIOR TO COMMENCEMENT OF WORK. NOTIFY ARCHITECT OF DISCREPANCIES.
28. REMOVE AND CAP ALL EXISTING FLOOR POWER AND COMMUNICATION OUTLETS THROUGHOUT PER ELECTRICAL CODE REQUIREMENTS.
29. REMOVE AND CAP ALL EXISTING ELECTRICAL CONDUIT THROUGHOUT PER ELECTRICAL CODE REQUIREMENTS.
30. COORDINATE REMOVAL OF MECHANICAL EQUIPMENT WITH NEW WORK AND MECHANICAL DRAWINGS.
31. COORDINATE W/ OWNER & VENDORS ANY EQUIPMENT THAT SHALL BE SALVAGED IN EXISTING STORE. DO NOT PERTAIN TO ANY OTHER TENANT EQUIPMENT UNLESS SPECIFIED.
32. REDUNDANT FIXINGS TO BE REMOVED AND MADE GOOD

17 GENERAL NOTES
SCALE: NTS

1 LEASE LINE.
2 EXISTING STOREFRONT SIGNAGE TO BE REMOVED. GC TO PATCH EXISTING WALL LIKE NEW AND PAINT TO MATCH EXISTING LL COLOR.
3 EXISTING LL STRUCTURE TO REMAIN.
4 EXISTING STOREFRONT GLAZING TO REMAIN. GC TO CLEAN AND BRING TO LIKE-NEW CONDITION.
5 EXISTING STOREFRONT ENTRY DOOR TO REMAIN. GC TO CLEAN AND BRING TO LIKE-NEW CONDITION. GC TO VERIFY HARDWARE IS ADA COMPLIANT AND IN WORKING ORDER. REPLACE AS REQUIRED.
6 EXISTING DOOR TAGGING PEDESTALS TO BE REMOVED.
7 EXISTING INTERIOR PARTITION WALL TO REMAIN. GC TO PATCH AND REPAIR AS REQUIRED.
8 EXISTING DEMISING WALL TO REMAIN. PROTECT IN PLACE. PATCH, REPAIR AND FIRESTOP AS REQUIRED TO MAINTAIN EXISTING FIRE RATING (WHERE OCCURS). REFINISH AS REQUIRED TO ACCEPT NEW FINISHES. EXTEND GYP BD TO UNDERSIDE OF STRUCTURE. PREPARE FOR NEW FINISH.
9 NOT USED
10 EXISTING STRUCTURAL COLUMN TO REMAIN. GC TO PROTECT IN PLACE DURING CONSTRUCTION AND EXTEND GYPSUM BOARD TO DECK.
11 DEMOLISH EXISTING FITTING ROOM: PARTITION WALLS, FURNISHING, AND DOORS.
12 NOT USED
13 GC TO VERIFY IF CONCRETE IS IN GOOD CONDITION. FLOORS MUST BE SMOOTH AND LEVEL WITH NO ELEVATION DIFFERENCES GREATER THAN 1/4" HIGH. GC TO PROVIDE LEVELER TO ANY GOUGES OR SCARS. GC TO SEAL EXISTING CONCRETE FLOOR. CREATE SMOOTH TRANSITION TO ADJACENT FLOOR FINISH. MATCH EXPANSION SPACE SALES FLOOR AREA TO FINISH LINE SALES FLOOR.
14 EXISTING FIRE SPRINKLER HEAD AND ASSOCIATED DROP TO BE MODIFIED PER SPRINKLER CONTRACTOR SHOP DRAWINGS.
15 EXISTING LIGHTING TO BE REMOVED IN ITS ENTIRETY THROUGHOUT ENTIRE SPACE U.O.N. WIRES, CONDUITS AND ASSOCIATED ITEMS TO BE REMOVED TO SOURCE.
16 EXISTING FIXTURES AND PERIMETER FIXTURES TO BE REMOVED THROUGHOUT.
17 TRENCH (E) CONCRETE SLAB AS REQUIRED FOR (N) CASHDESK ELEC. CONDUIT BELOW FLOOR. SEE FIXTURE PLAN A02.1 AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS. GC SHALL ALSO COORDINATE WITH JD-PM AND FIXTURE VENDOR PRIOR TO PROCEEDING. COORDINATE WITH LANDLORD FOR TRENCHING RESTRICTIONS.
18 REMOVE EXISTING INTERIOR PARTITION WALLS INCLUDING ANY BUILT-OUTS, EXISTING FIXTURES, FLOOR FINISHES, AND BASE WHERE NOTED. PREPARE FOR NEW FINISHES, TYP. REFER TO SHEETS A02.1 & A07.1.
19 EXISTING DOOR, FRAME, AND HARDWARE TO BE REMOVED.
20 EXISTING DOOR, FRAME, AND HARDWARE TO REMAIN. PROTECT IN PLACE. GC TO VERIFY IN WORKING ORDER AND REPLACE HARDWARE IF NECESSARY. GC TO CLEAN PATCH, REPAIR AND PAINT AS REQUIRED TO LIKE NEW CONDITION.
21 REFER TO ELECTRICAL AND MECHANICAL PLANS FOR ELECTRICAL AND MECHANICAL DEMOLITION SCOPE.
22 NOT USED
23 REMOVE (E) LAVATORY, WATER CLOSET, GRAB BARS & EXHAUST FAN PER PLAN. REFER TO SHEET A06.3. CAP PLUMBING LINES BELOW SLAB AND INFILL WITH CONCRETE. PATCH & REPAIR (E) WALLS & CEILING. AS NEEDED. NEW FLOOR AND BASE.
24 EXISTING RESTROOM TO BE RETAINED INCLUDING LAVATORY, WATER CLOSET, RESTROOM ACCESSORIES, GRAB BARS, SHELVING, LIGHTING, HVAC VENTS AND FRP. PM TO ASSESS THAT ALL FIXTURES ARE IN WORKING ORDER AND WHETHER FLOORING AND WALL BASE SHOULD BE REPLACED. INSPECT & TEST ALL EXISTING SANITARY SEWER LINES AND WATER SUPPLY LINES. REPAIR AND / OR REPLACE AS REQUIRED.
25 EXISTING MOP SINK AND WATER HEATER TO REMAIN; GC TO DEEP CLEAN AND PROTECT IN PLACE. GC TO PATCH AND REPAIR AS NECESSARY AND ENSURE THAT IT IS CODE COMPLIANT.
26 EXISTING DOOR AND FRAME TO REMAIN. GC TO PATCH AND REPAIR AS NECESSARY. GC TO PROVIDE NEW DETEX HARDWARE. (MODEL: DETEX ECL-230X-TDB)
27 EXISTING ELECTRICAL PANELS TO REMAIN. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
28 EXISTING ROOM TO BE PARTIALLY DEMOLISHED FOR FUTURE OFFICE. EXISTING DESK, SHELVES AND FURNITURE TO BE REMOVED. PATCH & REPAIR EXISTING WALLS AND FLOORING AS REQUIRED.
29 NOT USED
30 EXISTING DATA/TELECOM EQUIPMENT TO RELOCATED. REFER TO ELECTRICAL PLANS.
31 EXISTING ELECTRICAL TRANSFORMER SUSPENDED FROM DECK TO REMAIN.
32 EXISTING BOH RACKING TO BE RELOCATED AS PER NEW BOH LAYOUT. PM TO ASSESS THAT ALL SHELVES AND RACKING ARE IN GOOD CONDITION AND ORDER NEW AS REQUIRED.
33 EXISTING MOP SINK TO BE REMOVED, STUB-INS TO BE CAPPED OFF.
34 EXISTING WATER HEATER TO REMAIN.
35 ALL FIXTURES IN EXISTING OFFICE TO BE REMOVED. EXISTING CEILING LIGHTING, HVAC VENTS, FIRE SPRINKLER HEAD AND ELECTRICAL OUTLET TO REMAIN.
36 EXISTING BLADE SIGN TO BE REMOVED. GC TO PROTECT AND REUSE EXISTING METAL SUPPORT HANGER FOR NEW BLADE SIGN.
1 37 EXISTING DECORATIVE COLUMNS, ARCHES AND AWNINGS TO BE REMOVED AT STOREFRONT.
1 38 EXISTING DOUBLE DOOR TO BE REMOVED AND REPLACED WITH NEW GLAZING. TENANT GC TO COORDINATE WITH ON-SITE MANAGEMENT TEAM. BARRICADE MAY BE NEEDED IN THIS AREA WHEN REPLACING.
39 EXISTING GLAZING TO BE REMOVED TO ALLOW FOR NEW DOUBLE DOOR.
40 EXISTING FLOORING IN EXPANSION SPACE TO BE PREPARED TO MATCH EXISTING FINISHLINE FLOORING. PM TO ASSESS IF STAINING IS REQUIRED. PATCH AND REPAIR AS NEEDED.
41 EXISTING SEALED CONCRETE FLOOR TO REMAIN.
42 EXISTING INSPECTOR TEST ACCESS DOORS TO REMAIN.

9 KEY NOTES
SCALE: NTS

SYMBOL	DESCRIPTION
	EXISTING CONSTRUCTION TO BE DEMOLISHED/RELOCATED
	EXISTING NON LOAD-BEARING WALL TO REMAIN (FIELD VERIFY EXACT LOCATION)
	EXISTING WALL TO REMAIN (FIELD VERIFY EXACT LOCATION)
	LEASE LINE (FIELD VERIFY EXACT LOCATION)
	NEW TEMPORARY BARRICADE WALL
	EXISTING BARRICADE DOORS
	FLOOR SLAB TRENCHING
	EXISTING STRUCTURAL COLUMN

1 **LANDLORD NOTE:**
CHECK WITH ON-SITE MALL MANAGEMENT IF THIS CAN BE REMOVED. CENTER MAY HAVE ALREADY COMPLETED

1 LEGEND
SCALE: NTS

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Seal:

A Project for:

JD SPORTS #1425
LAS AMERICAS PREMIUM OUTLETS
4155 CAMINO DE LA PLAZA SPACE 0448A
SAN DIEGO, CA 92173

PORTFOLIO REFERENCE ONLY
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DEMOLITIONS

Sheet #:
A01.1

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FIELD VERIFICATION REQUIREMENT:
TENANT, TENANT'S DESIGN TEAM, AND TENANT'S CONTRACTORS SHALL FIELD VERIFY ALL FIELD CONDITIONS PRIOR TO THE START OF ANY CONSTRUCTION. BE ADVISED THAT ALL CHANGES AND MODIFICATION TO THE LANDLORD'S APPROVED DRAWINGS SHALL BE RESUBMITTED TO LANDLORD FOR RE-APPROVAL. ANY CONSTRUCTION COMPLETED WITH OUT LANDLORD APPROVAL SHALL BE CORRECTED AS APPROVED BY LANDLORD AT TENANT'S EXPENSE.

FLOOR PLAN COMMENTS:

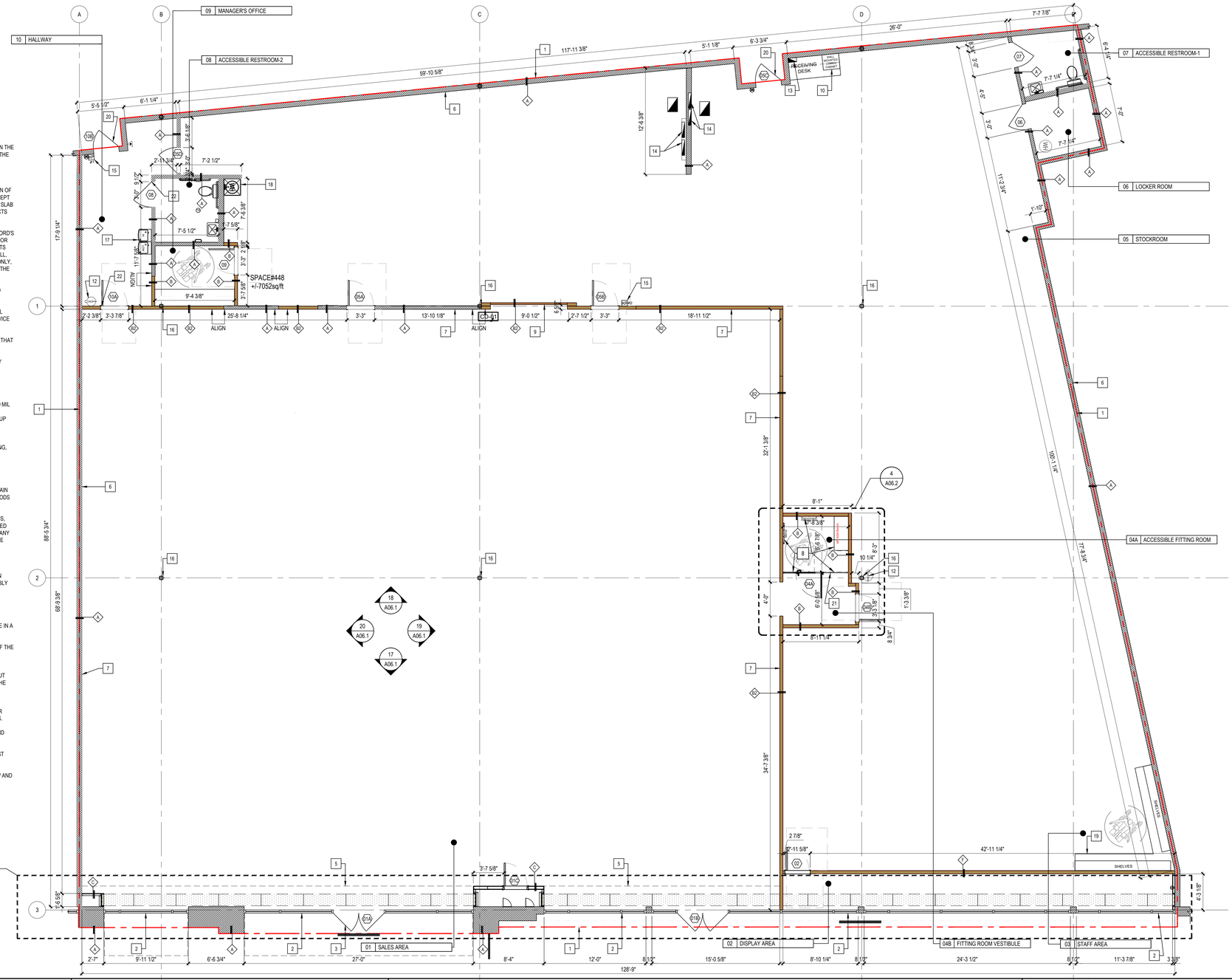
- TENANT IS RESPONSIBLE TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE SPACE. FAILURE TO PROPERLY FIELD VERIFY EXISTING CONDITIONS DOES NOT RELIEVE THE TENANT OF ANY EXPENSES OR RESPONSIBILITIES RESULTING FROM THAT FAILURE.
- TENANT AND TENANT'S FLOORING CONTRACTORS ARE RESPONSIBLE TO DETERMINE COMPATIBILITY OF THEIR FLOORING PRODUCTS AND/OR ADHESIVE WITH EXISTING SLAB PRIOR TO FLOORING INSTALLATION. ANY REQUIRED MOISTURE TESTING OR INSTALLATION OF MOISTURE BARRIER UNDER FLOORING IS TENANT'S EXPENSE. LANDLORD DOES NOT ACCEPT RESPONSIBILITY AND WILL NOT BE LIABLE FOR WATER VAPOR EMISSIONS THROUGH THE SLAB THAT EXCEED FLOORING MANUFACTURER'S RECOMMENDATIONS, OR ARE DUE TO EFFECTS OF SAW CUTTING BACK FILL WITH INSUFFICIENT VAPOR BARRIER.
- NOTHING IS PERMITTED TO BE ATTACHED TO, SUSPENDED FROM, OR PENETRATE LANDLORD'S STRUCTURE, FLOOR DECK, OR ROOF DECK. YOU MAY ATTACH, NON-DESTRUCTIVELY, TO OR SUSPEND FROM THE TOP CHORD OF THE JOIST OR THE STRUCTURAL STEEL WHICH EXISTS ABOVE THE TENANT SPACE. WHEN ATTACHING TO LANDLORD'S STRUCTURE, DO NOT DRILL, WELD, SCREW, OR SHOOT INTO STRUCTURE. ALTERNATIVE METHODS OF ATTACHMENT ONLY, NOTHING TO DAMAGE LANDLORD'S BASE BUILDING STRUCTURE. PRIOR TO ANY WORK IN THE FIELD, THE TENANT SHALL PROVIDE SIGNED AND SEALED STRUCTURAL DRAWINGS, BY A STRUCTURAL ENGINEER WITH LEGALLY ACTIVE REGISTRATION AS INDICATED BY ALL JURISDICTIONAL REQUIREMENTS, FOR ALL STRUCTURAL MODIFICATIONS FOR LANDLORD RECORDS.
- STRUCTURAL REINFORCING DETAILS MUST BE PROVIDED BY A REGISTERED STRUCTURAL ENGINEER TO TENANT COORDINATION FOR EQUIPMENT SUPPORT OR SUSPENSION, SERVICE PLATFORMS, DECK PENETRATIONS, ETC.
- ANY LANDLORD EQUIPMENT, COMPONENT, AND/OR SERVICE FEEDING OTHER TENANT(S) THAT IS EXISTING IN THE SPACE MUST REMAIN VISIBLE AND ACCESSIBLE TO THE LANDLORD. TENANT SHALL INSTALL ACCESS PANELS AS REQUIRED TO MAINTAIN ACCESS. ACCESS PANELS SHALL BE LABEL TO PROPERLY IDENTIFY SYSTEM, COORDINATE WITH PROPERTY MANAGEMENT TEAM.
- ALL CONCRETE PATCHING MUST BE LEVEL WITH THE EXISTING CONCRETE FLOOR.
- TENANT IS REQUIRED TO INSTALL A WATERPROOF MEMBRANE IN ALL WET AREAS (RESTROOMS, KITCHENS, FOOD SERVICES, ETC.) OF THE SPACE. TENANT SHALL USE A 30 MIL POLYETHYLENE CLEAVAGE MEMBRANE (EQUAL TO NOBLESEAL TS) INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND ANSI A108. MEMBRANE MUST BE EXTENDED UP THE WALL A MINIMUM OF 4" OR EQUAL TO THE HEIGHT OF THE FLOOR BASE.
- LANDLORD WILL NOT APPROVE THE INSTALLATION OF ANY GYPSUM BOARD OR DRYWALL APPLIED TO THE INSIDE FACE OF STOREFRONT WINDOWS, NOR INTERIOR WALLS, FRAMING, PERMANENT FIXTURES OR OTHER TYPES OF PANELS PLACED IMMEDIATELY BEHIND TO EXISTING STOREFRONT WINDOWS.

TENANT LIGHTBOXES/LED SCREENS / MONITORS:
IN THE STOREFRONT WINDOWS MUST MEET THE FOLLOWING CRITERIA:

- SUCH SCREENS MUST NOT BE INTERACTIVE, CONTAIN NO AUDIBLE FEATURES AND CONTAIN NO EXCESSIVELY BRIGHT OR FLASHING LIGHTS AND SHALL OPERATE ONLY DURING PERIODS WHEN THE PREMISES IS OPEN FOR BUSINESS.
- SUCH SCREENS SHALL NOT EXCEED THE DIMENSIONS SET FORTH IN THE TENANT'S PLANS, AND SHALL BE BEHIND GLASS. • ALL CONTENT SHOWN ON THE SCREENS MUST BE RELATED TO THE CONDUCT OF THE TENANT'S BUSINESS IN THE PREMISES, DOES NOT ADVERTISE ANY PRODUCTS OR SERVICES OTHER THAN THOSE OF THE TENANT, AND IN KEEPING WITH THE GENERAL CHARACTER AND QUALITY STANDARDS OF A FIRST CLASS REGIONAL OUTLET CENTER.
- TENANT SHALL NOT USE SUCH SCREENS TO BROADCAST ANY COMMERCIAL TELEVISION PRODUCTIONS, SPORTS EVENTS, CINEMATIC THEATRE PRODUCTIONS OR OTHER MOTION PICTURE PRESENTATIONS, UNLESS APPROVED BY THE LANDLORD, NOT TO BE REASONABLY WITHHELD.
- TENANT SHALL PROMPTLY REMOVE ANY CONTENT THAT DOES NOT COMPLY WITH THE CONDITIONS OF THIS PARAGRAPH FOLLOWING NOTICE FROM THE LANDLORD.
- ALL WIRING FOR THE LED SCREENS/MONITORS MUST NOT BE VISIBLE AND MUST BE DONE IN A CLEAN AND NEAT MANNER SUBJECT TO APPROVAL IN THE FIELD.
- TENANT SHALL PROMPTLY REMOVE ANY CONTENT THAT DOES NOT COMPLY WITH ANY OF THE CONDITIONS OF THIS PARAGRAPH FOLLOWING NOTICE FROM THE LANDLORD.

IMPORTANT NOTES REGARDING LIFESTYLE GRAPHICS:

- TENANTS MUST DESIGN THEIR STORE LAYOUT ACCORDINGLY TO BE ABLE TO CHANGE OUT AND REPLACE ANY LANDLORD APPROVED STOREFRONT LIFESTYLE GRAPHICS DURING THE COURSE OF THEIR LEASE.
- LANDLORD DOES NOT APPROVE INSTALLATION OF ANY INTERIOR WALLS, FRAMING, PERMANENT FIXTURES OR PANELS ADJACENT TO EXISTING STOREFRONT WINDOWS, NOR APPLICATION OF GYPBOARD (DRYWALL) TO THE INSIDE FACE OF STOREFRONT WINDOWS.
- ALL LANDLORD APPROVED STOREFRONT LIFESTYLE GRAPHICS MUST BE APPLIED SECOND SURFACE.
- SHOULD TENANT'S LIFESTYLE GRAPHIC FILM BECOME FADED OR DAMAGED, TENANT MUST REPLACE FILM WITHIN A REASONABLE TIME PERIOD.
- ALL FUTURE REPLACEMENT LIFESTYLE GRAPHICS ARE SUBJECT TO LANDLORD'S REVIEW AND APPROVAL BEFORE INSTALLATION.
- ALL STOREFRONT LIFESTYLE GRAPHICS MUST CONFORM TO LANDLORD'S STOREFRONT CRITERIA OBTAINED FROM HTTPS://BUSINESS.SIMON.COM/



18 CONSTRUCTION PLAN
SCALE: 3/16" = 1'-0"

NORTH

17 NOT USED
SCALE: NTS

1. THE GC SHALL VERIFY DIMENSIONS OF THE EXISTING SPACE & OF ANY EXISTING CONSTRUCTION TO REMAIN BY ACTUAL MEASUREMENT BEFORE ANY WORK IS PERFORMED. IF MEASUREMENTS DIFFER FROM DIMENSIONS INDICATED ON THESE PLANS, THE GC IS TO NOTIFY THE TENANT AND ARCHITECT IMMEDIATELY. THE GC IS RESPONSIBLE FOR CORRECTING ANY & ALL DISCREPANCIES AT NO ADDITIONAL EXPENSE TO TENANT.
2. THE GC SHALL PATCH & REPAIR ALL EXISTING SURFACES AS NECESSARY BEFORE APPLYING NEW FINISHES. ALL SOFT, POROUS, FLAKING OR OTHERWISE DEFECTIVE FINISHES SHALL BE REMOVED BEFORE APPLICATION OF NEW MATERIALS. OPENINGS, VOIDS, OR UNFINISHED SURFACES CREATED BY REMOVAL OR MODIFICATION OF EXISTING WORK SHALL BE FILLED OR PATCH & FINISHED AS NECESSARY TO MATCH EXISTING CONDITIONS FOR NEW FINISHES REQ. SPECIFICALLY, FLOOR SURFACES AT ENTRY SHALL BE LEVELED TO ASSURE SMOOTH SURFACE TRANSITION BETWEEN EXISTING & NEW FLOOR FINISH MATERIALS. REFER TO A07.1 FOR FLOOR FINISH NOTES.
3. GC SHALL VERIFY THAT DEMISING WALLS EXTEND TO STRUCTURE ABOVE AND ALL PENETRATIONS ARE SEALED TIGHT, AS REQUIRED BY LANDLORD AND SHALL PROVIDE ALL WORK REQUIRED TO CORRECT DEFICIENT CONDITIONS
4. THE GC IS RESPONSIBLE TO MAINTAIN THE ARCHITECTURAL, STRUCTURAL AND FIRE RATING INTEGRITY OF THE LANDLORD'S DEMISING WALLS, FLOOR SLAB, BEAMS, COLUMNS, ROOF DECK, ETC.
5. ALL METAL STUDS ARE TO BE 20 GA. TYPICAL NON-LOAD BEARING PARTITIONS. SEE USG STEEL-FRAMED DRYWALL SYSTEMS "LIMITING HEIGHT - STEEL STUD ASSEMBLIES" CHART. USE THE L/240 ALLOWABLE DEFLECTION FIGURES ONLY.
6. ALL GYPSUM BOARD TO BE 5/8" TYPE 'X' U.O.N.
7. THE GC SHALL COORDINATE WORK OF VARIOUS TRADES IN INSTALLATION OF INTERRELATED WORK. BEFORE INSTALLATION OR WORK BY ANY TRADE BEGINS, MAKE PROPER PROVISIONS TO AVOID INTERFERENCES. THIS SHALL INCLUDE WORK BY ANY OF THE TENANTS SUBCONTRACTORS AS WELL AS THOSE UNDER CONTRACT W/ THE GC
8. PROVIDE METAL BACKING STRIPS FOR ALL SIGNS, HOOKS, TOILET ROOM ACCESSORIES & ANY OTHER WALL MOUNTED EQUIPMENT. DOUBLE UP IF USING 6" FOR PERIMETER POST. COORDINATE ALL BLOCKING REQUIREMENTS NECESSARY FOR MILLWORK W/ MILLWORK.
9. ALL FRAMING LUMBER, PLYWOOD AND CONCEALED WOOD SHALL BE FIRE RETARDANT TREATED (F.R.T.) - NO WOOD IN CEILING PLENUM ABOVE SPRINKLER COVERAGE
10. DIMENSIONS ARE FROM FACE OF GYPSUM WALL BOARD OR CENTERLINE OF COLUMN. ALL ELEVATIONS ARE FROM FINISH FLOOR ELEVATION
11. ALL INTERIOR FINISH & TRIM MATERIALS SHALL MEET APPLICABLE CODES FOR FLAME SPREAD RATINGS
12. MINIMUM DIMENSION FROM ANY CORNER OR WALL TO FRAMING STUD AT DOOR JAMB OPENING SHALL BE 4" (U.O.N.)
13. THE GC SHALL PROVIDE CAULK JOINTS WHERE GYP. BD. MEETS THE FLOOR OR ROOF DECK - PACK FLUTES AT DECK AS REQUIRED
14. PROVIDE DRYWALL TRIM AT ALL EXPOSED EDGES AND CORNERS
15. COORDINATE POWER REQUIREMENTS WITH FIXTURE VENDOR
16. PROVIDE IN WALL STUD BLOCKING PER BLOCKING DETAIL ON A10.6. REFER TO INTERIOR ELEVATIONS.
17. GC TO INFILL ALL TRENCHING LOCATIONS WITH NEW CEMENTOUS OVERLAY TO MATCH EXISTING ADJACENT FINISH.
18. PROVIDE RECORD DRAWINGS STORAGE TUBE IN STOCK ROOM PER SPECIFICATIONS SECTION #017700.
19. COORDINATE LOCATIONS OF ALL SAW CUTTING AND CORING IN CONCRETE FLOOR SLAB, WORK TO BE APPROVED BY THE LANDLORD PRIOR TO CUTTING. WHERE EXISTING, MAINTAIN VAPOR BARRIER

13 GENERAL NOTES
SCALE: NTS

1 LEASE LINE
2 EXISTING STOREFRONT SYSTEM TO REMAIN. REFER TO STOREFRONT SHEETS A05.1, A05.2 AND A05.3 FOR MORE INFORMATION.
3 EXISTING ENTRY DOORS TO REMAIN. GC TO VERIFY HARDWARE IS IN WORKING ORDER AND REPLACE AS REQUIRED.
4 NOT USED
5 NEW SOFFIT ABOVE. SEE SHEET A04.1 AND A05.2 FOR MORE INFORMATION.
6 EXISTING DEMISING WALL TO REMAIN. PATCH AND REPAIR AS REQUIRED TO MAINTAIN EXISTING FIRE RATING.
7 LOCATION OF IN-WALL METAL BACKING STRIPS, REFER TO FIXTURE PLAN FOR ALL FIXTURE LOCATIONS; REFER TO SHEET A06.1 FOR HEIGHTS. SEE SHEET A10.2 FOR MORE INFORMATION.
8 FITTING ROOM LAMINATED PANELS, DOORS, BENCH AND ACCESSORIES PROVIDED BY VENDOR AND INSTALLED BY GC. GC TO ALLOW SEMI-GLOSS PAINT TO CURE AFTER 10 DAYS, INSTALL VIN-1, THEN INSTALL LAMINATED PANELS. BLOCKING TO BE ADDED FOR WALL FIXED FITTING ROOM FIXTURES. SEE A06.2 AND A07.1 FOR MORE INFORMATION.
9 GC TO COORDINATE WALL MOUNTED BLOCKING FOR RECESSED DIGITAL SCREEN. GC MUST COORDINATE FIRE RATED BACKING FOR RECESS DIGITAL DISPLAY.
10 NEW WALL MOUNTED COMMS CABINET ABOVE RECEIVING DESK.
11 NOT USED
12 PROVIDE PORTABLE FIRE EXTINGUISHERS OF TYPE 2A10BC. COORDINATE FINAL LOCATIONS & QUANTITIES WITH OWNERS CONSTRUCTION PROJECT MANAGER AND LOCAL FIRE MARSHAL.
13 NEW CONTROL PANEL FOR SECURITY EQUIPMENT ABOVE RECEIVING DESK. GC TO COORDINATE WITH NUTECH SHOP DRAWINGS FOR MORE INFORMATION.
14 EXISTING ELECTRICAL PANELS AND TELECOM EQUIPMENT TO REMAIN. GC TO ENSURE ELECTRICAL PANELS ARE CODE COMPLIANT. REFER TO ELECTRICAL DRAWINGS FOR INFORMATION
15 NEW KEY PADS. GC TO COORDINATE WITH NUTECH SHOP DWGS FOR MORE INFORMATION.
16 EXISTING COLUMN TO REMAIN.
17 EXISTING HI-LOW DRINKING FOUNTAIN TO REMAIN. GC TO PROVIDE NEW GRAB BAR, SEE SHEET A06.3 AND PLUMBING DRAWINGS FOR MORE INFORMATION.
18 EXISTING MOP SINK TO REMAIN. SEE PLUMBING DRAWINGS FOR MORE INFORMATION.
19 NEW STAFF AREA COUNTER. SEE SHEET A10.1 FOR MORE INFORMATION.
20 EXISTING DOOR AND FRAME TO REMAIN. GC TO PATCH AND REPAIR AS NECESSARY AND PROVIDE NEW DETEX (MODEL: DETEX ECL-230X-TDB). REFER TO DOOR SCHEDULE ON A09.1 FOR MORE INFORMATION.
21 NOT USED
22 INSTALL FINGER GUARD. SEE DOOR SCHEDULE.

9 KEY NOTES
SCALE: NTS

REFER TO 17/A10.4 FOR WALL TYPE CONSTRUCTION DETAILS *

WALL TYPE 'A': EXISTING DEMISING/INTERIOR/EXTERIOR WALL OR WALL FURRING TO REMAIN.

WALL TYPE 'B': NEW FULL HEIGHT, NON RATED, SINGLE STUD PARTITION, GWB FINISHED ON BOTH SIDES.

WALL TYPE 'C': NEW FULL HEIGHT, NON RATED, SINGLE STUD PARTITION, GWB FINISHED ON EXPOSED SIDE ONLY.

WALL TYPE 'F': NEW PARTIAL HEIGHT, NON RATED, SINGLE STUD PARTITION, GWB FINISHED ON BOTH SIDES EXTENDED UP TO 12'-0" HIGH.

DENOTES SOUND BATT INSULATION OF 42 STC OR BETTER IN WALL CAVITY

DOOR TYPE, SEE A09.1 DOOR SCHEDULE

GENERAL NOTES:
- USE MOISTURE RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS.
- SOUND BATT INSULATION WITH AN STC OF 42 OR BETTER TO BE INSTALLED IN ALL RESTROOM WALLS
- REFER TO THE METAL STUD SCHEDULE ON DRAWING SHEET A-501 FOR GAUGE SIZES UNLESS NOTED OTHERWISE.

1 WALL LEGEND
SCALE: NTS

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A Project for:

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CONSTRUCTION PLAN

Sheet #:
A02.0

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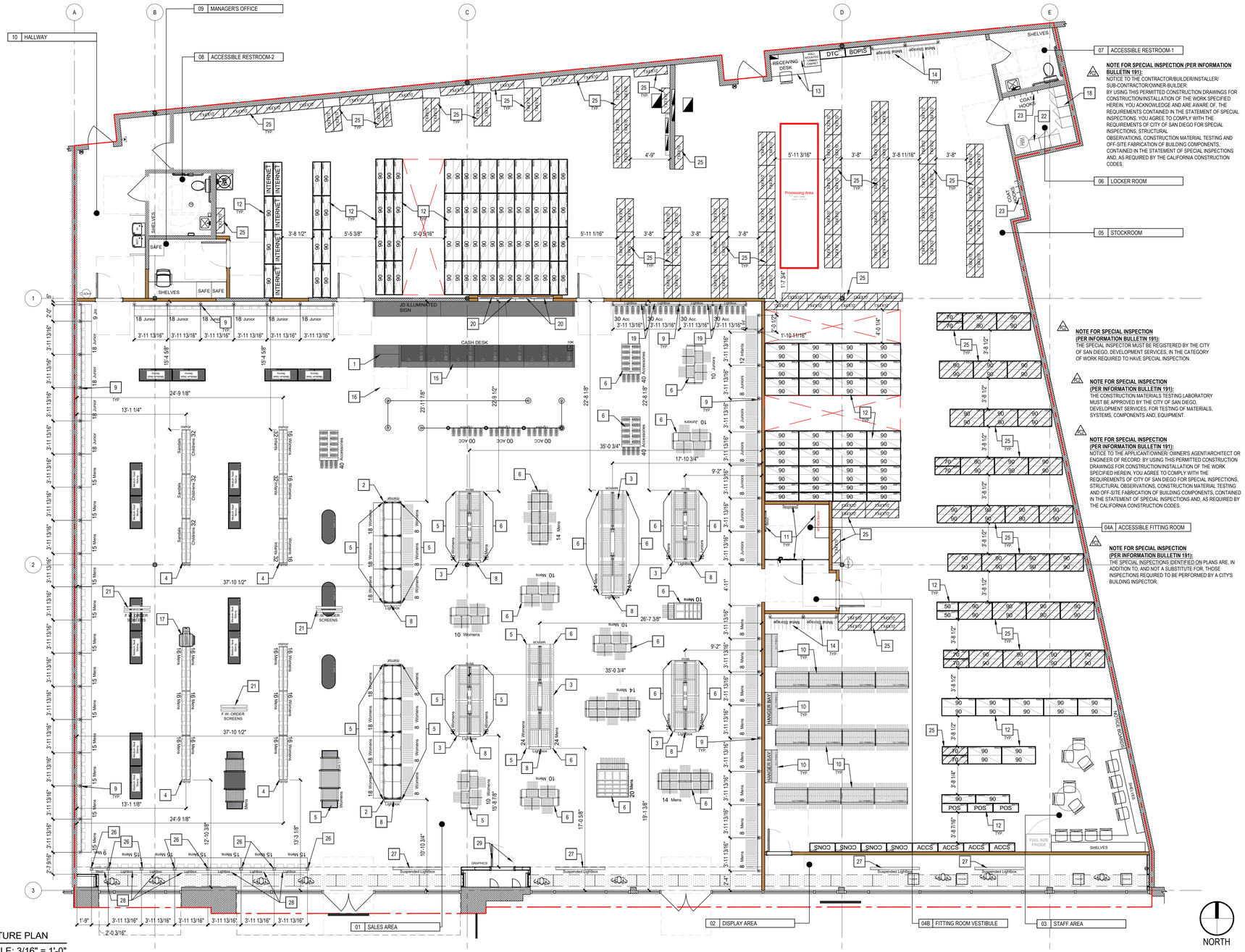

18 FIXTURE PLAN
SCALE: 3/16" = 1'-0"

NOTE FOR SPECIAL INSPECTION (PER INFORMATION BULLETIN 191):
NOTICE TO THE CONTRACTOR/BUILDER/INSTALLER/ SUB-CONTRACTOR/OWNER/BUILDER:
BY USING THIS PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU ACKNOWLEDGE AND ARE AWARE OF, THE REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS. YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF CITY OF SAN DIEGO FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES.

NOTE FOR SPECIAL INSPECTION (PER INFORMATION BULLETIN 191):
THE SPECIAL INSPECTOR MUST BE REGISTERED BY THE CITY OF SAN DIEGO, DEVELOPMENT SERVICES, IN THE CATEGORY OF WORK REQUIRED TO HAVE SPECIAL INSPECTION.

NOTE FOR SPECIAL INSPECTION (PER INFORMATION BULLETIN 191):
THE CONSTRUCTION MATERIALS TESTING LABORATORY MUST BE APPROVED BY THE CITY OF SAN DIEGO, DEVELOPMENT SERVICES, FOR TESTING OF MATERIALS, SYSTEMS, COMPONENTS AND, EQUIPMENT.

NOTE FOR SPECIAL INSPECTION (PER INFORMATION BULLETIN 191):
NOTICE TO THE APPLICANT/OWNER/ OWNER'S AGENT/ARCHITECT OR ENGINEER OF RECORD: BY USING THIS PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF CITY OF SAN DIEGO FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES.

NOTE FOR SPECIAL INSPECTION (PER INFORMATION BULLETIN 191):
THE SPECIAL INSPECTIONS IDENTIFIED ON PLANS ARE, IN ADDITION TO, AND NOT A SUBSTITUTE FOR, THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY A CITY'S BUILDING INSPECTOR.

JUST LANDED FIXTURE SCHEDULE (MESH)

FIXTURE DESCRIPTION	RPS DESCRIPTION	DRAWING NUMBER	NOTES
00 ACC	FOOTWEAR FLOOR DISPLAY UNIT - MESH SET PANEL	FW71_T1CL	Queue Barrier Panel
	FOOTWEAR FLOOR DISPLAY UNIT - POSTS	FW72_T1CL	Queue Barrier Posts
40 Accessories	MESH MID FLOOR ACCESSORIES GONDOLA - JL CL BASE	FM31_JL_CL	Accessory T-Stand - Mesh
25 Acc	MESH MID FLOOR FOOTWEAR GONDOLA - JL CL BASE	FM33_JL_CL	Accessory J-Stand
	MESH FLIGHT CASE LARGE - INC POWER AND DATA (4no Power / Kettle and 2no Data Sockets in the top)	FM01_T1CLM_DATA	Mesh Flight Case - 1 Meter - Clear Lacquer
	MESH FLIGHT CASE SMALL - 2no Power / Kettle sockets in the top	FM02_T1CLM	Mesh Flight Case - 1/2 Meter - Clear Lacquer
Angels	MESH TASTER TABLE FOOTWEAR CL	FM77_JL_CL	Taster Table - Clear Lacquer
Wolfpacks	MESH TASTER TABLE FOOTWEAR WOMENS LG	FM77_JL_LG	Taster Table - Light Grey
Mens	TABLE NEST FOOTWEAR CL (Half / Full set available)	FM78_JL_CL	Nest Table - Clear Lacquer
Womens	TABLE NEST FOOTWEAR WOMENS LG (Half / Full set available)	FM78_JL_LG	Nest Table - Clear Lacquer
18 Juniors / 16 Mens	2 BAY MCW - MENS/JUNIOR ALL GRADES	AM90_JL_CL	MCW - 2 Meter - Clear Lacquer
24 Mens / 24 Juniors	3 BAY MCW - MENS/JUNIOR ALL GRADES	AM92_JL_CL	MCW - 3 Meter - Clear Lacquer
16 Womens / 16 Womens	2 BAY MCW - WOMENS ALL GRADES LG	AM71_JL_LG	MCW - 2 Meter - Clear Lacquer
24 Mens / 24 Mens	3 BAY MCW - WOMENS ALL GRADES LG	AM72_JL_CL	MCW - 3 Meter - Light Grey
16 Womens / 16 Mens	2 BAY MCW - SPLIT GENDER ALL GRADES	AM73_JL_SG	MCW - 2 Meter - Split
24 Mens / 24 Womens	3 BAY MCW - SPLIT GENDER ALL GRADES	AM74_JL_SG	MCW - 2 Meter - Split
4 Mens / LOW LEVEL / 4 Juniors	LOWE LEVEL CAGE MENS / HEX	AM87_JL_CL	
10 Mens	1200 GONDOLA MENS/JUNIOR (INC 7 BACK BARS)	AM93_JL_CL	1200 Gondola - Clear Lacquer
14 Mens	1800 GONDOLA MENS/JUNIOR (INC 7 BACK BARS)	AM94_JL_CL	1800 Gondola - Clear Lacquer
6 Womens	WOMENS A FRAME RAIL INC GRAPHIC HOLDER - LG	AM76_JL_LG	
9 Womens	WOMENS CURVED RAIL WITH PLINTH INC GRAPHIC HOLDER - LG	AM77_JL_LG	
10 Womens	WOMENS GONDOLA INC GRAPHIC HOLDER - LG	AM79_JL_CL	LIGHT GREY
20 Womens	TWO FOR UNIT MENS - 4 WIDE - SINGLE SIDED - HEX	AM98_JL_CL	LIGHT GREY
10 Mens	TWO FOR UNIT MENS - 2 WIDE - SINGLE SIDED - HEX	AM99_JL_CL	
Wireless Card Display	FOOTWEAR BENCH SEAT SKINNY SMALL	FW106_JL_CL	SLIM BENCH
	WOMENS FOOTWEAR BENCH SEAT PINK	FW125_JL_LG	Oval bench
MSP	MOBILE SERVICE POINT (MSP)		
DIGITAL	DIGITAL PODIUMS	FM28_T1	
	NON DIGITAL PODIUM	FM27_T1	
4 Mens / 4 Mens	MENS STORY TELLER RAIL 600MM LOW	AM163_JL_CL	1 per Storyteller
	MENS STORY TELLER RAIL 900MM HIGH	AM164_JL_CL	1 per Storyteller
4 Mens / 4 Mens	MENS/ JUNIORS MANNEQUIN PODIUM 600X600MM (ACRYLIC INSERT SUPPLIED SEPARATELY)	AM97_JL_CL	Mesh with Storyteller Rails
4 Womens / 4 Womens	WOMENS STORY TELLER RAIL 600MM LOW	AM97_JL_LG	1 per Storyteller
	WOMENS STORY TELLER RAIL 900MM HIGH	AM52_JL_LG	1 per Storyteller
4 Womens / 4 Womens	WOMENS MANNEQUIN PODIUM 600X600MM (ACRYLIC INSERT SUPPLIED SEPARATELY)	AM97_JL_LG	Mesh with Storyteller Rails

1 FIXTURE SCHEDULE
SCALE: NTS

1. G.C. TO VERIFY AND COORDINATE FINAL LOCATION OF FIRE-RATED IN-WALL BLOCKING REQUIREMENTS FOR WALL FIXTURE INSTALLATION w/ FIXTURE VENDOR.
2. G.C. TO MAINTAIN A MINIMUM CLEAR 36" AISLEWAY BETWEEN ALL FIXTURES AND / OR OTHER OBSTRUCTIONS. MAINTAIN MIN. 44" WIDE EGRESS PATH WHERE INDICATED ON EGRESS PLAN.
3. ALL FINISHES SHALL COMPLY w/ CLASS 'C' FLAME SPREAD REQUIREMENTS PER IFC SECTION 803, TABLE 803.3
4. STORE DISPLAY FIXTURES ARE FURNISHED SEPARATELY BY OWNER AND INSTALLED BY GC (FOIC)
5. FURNITURE TO BE PURCHASED BY OWNER AND INSTALLED BY GC (FOIC)
6. GC TO RECEIVE AND VERIFY QUANTITIES AND ANY DAMAGE UPON RECEIPT. GC TO NOTIFY OWNER IMMEDIATELY OF ANY DISCREPANCIES OR DAMAGE. IF CONTRACTOR HASN'T DOCUMENTED AND NOTIFIED JD OF ANY DAMAGES WITHIN 24 HRS, GC TO BE RESP. FOR REPLACEMENT AND TRANSPORTATION.
7. REFER TO LIGHT BOX INSTALLATION MANUAL FOR OWNER PROVIDED GC INSTALLED LIGHT BOXES. ALL LIGHT BOXES SHOWN ON PLANS ARE INSTALLED BY GC.
8. GC TO CAULK AROUND EDGES OF ALL LIGHTBOXES AND ILLUMINATED PORTAL FIXTURE TO PREVENT ANY LIGHT LEAKS. COORDINATE CAULK COLOR AND SPEC WITH JD PM.
9. **ALL POSTS WILL BE DELIVERED 9'-10 1/8" HIGH. ANY ALTERNATE HEIGHTS WILL NEED TO BE CUT DOWN ONSITE BY THE GC.**
10. **ALL DIMS TO BE VERIFIED IN FIELD PRIOR TO MANUFACTURE.**
11. **FOR NEW WALLS, PROVIDE METAL BACKING STRIPS, DOUBLE UP IF USING 6" FOR POST PERIMETER POST.**
12. **WHEN RETAINING EXISTING WALLS FRP BLOCKING TO BE PLACED CENTRALLY TO POST WALL FIXING POINT ABOVE AND BELOW. TO BE SECURELY FIXED AND DECORATED TO MATCH PROPOSED LOCAL FINISH.**
13. **REFER TO ELECTRICAL DRAWINGS FOR POWER/DATA REQUIREMENTS FOR ALL FIXTURES.**
14. SPRINKLER VENDOR TO CONFIRM COMMODITY RATING AND DENSITY DURING GC BIDDING PROCESS OR SPRINKLER ADJUSTMENTS CHANGE ORDERS WILL FALL BACK TO GC TO FUND.

17 GENERAL NOTES
SCALE: NTS

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DISPLAY FIXTURES, RACKS, SHELVING, AND STORAGE UNIT REQUIREMENTS:

- NON-ELECTRIFIED STOREFRONT DISPLAY TRACK LIGHTING AND HANGING GRID FIXTURE MUST NOT BE VISIBLE THROUGH STOREFRONT GLAZING FROM OUTSIDE THE STORE. THE TRACK LIGHTING MUST MOUNT TO THE BACK OF THE STOREFRONT SOFFIT OR FROM THE CEILING.
- ALL FREESTANDING STOREFRONT DISPLAY FIXTURES, MANNEQUINS, ETC. MUST BE A MINIMUM OF 18" FROM THE STOREFRONT GLASS AND MOVABLE FOR CLEANING AND MAINTENANCE PURPOSES. MANNEQUINS DISPLAYED MUST BE MOVABLE, NOT PERMANENTLY MOUNTED.
- TENANT DISPLAY FIXTURES IN THE RETAIL SPACE AND RACK / SHELVING / STORAGE UNITS IN THE STOCKROOM SHALL BE DESIGNED TO PROVIDE ADEQUATE CLEARANCE FOR THE AUTOMATIC (FIRE) SPRINKLER SYSTEM.
- TENANT MOBILE / COMPACT STORAGE SYSTEMS SHALL BE CONSTRUCTED OF WIRE MESH SHELVES. HOWEVER, IF CONSTRUCTED WITH SOLID SHELVES (WOOD OR STEEL), THE UNITS SHALL BE INSTALLED WITH A MINIMUM OF A 3" SPACER TO PROVIDE SPACE BETWEEN UNITS AT MAXIMUM 5'-0" INTERVALS.
- TENANT'S ARCHITECT AND GENERAL CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION TO THE REQUIRED SPRINKLER CONTRACTOR REGARDING STOCK / STORAGE AREA:
  - TYPE OF STORAGE SYSTEM(S).
  (INCLUDING DETAILS OF THE STORAGE SYSTEMS).
  - TYPE OF SHELVING.
  (WIRE MESH / SOLID WOOD / SOLID STEEL, ETC.)
  -TYPE OF COMMODITIES.
  (PLASTICS, AEROSOL'S, CLOTHING, ETC)
  -ELEVATION OF HIGHEST SHELF / CEILING HEIGHT.
- TENANT SHALL BE SOLELY RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND USE OF ANY DISPLAY OR STORAGE SYSTEM(S) WITHIN THE PREMISE INCLUDING ALL COMPLIANCE WITH APPLICABLE BUILDING CODES, FIRE CODES AND THE REQUIREMENTS OF ANY INSURANCE RATING BUREAUS. IF ANYTHING DONE, OMITTED TO BE DONE OR SUFFERED TO BE DONE BY TENANT IN, UPON OR ABOUT THE PREMISES IN REGARD TO SUCH DISPLAY OR STORAGE SYSTEM(S) SHALL RESULT IN A FIRE CODE VIOLATION(S) AND THE TENANT FAILS TO TAKE CORRECTIVE ACTION AND / OR PAY THE ASSOCIATED FINE, REGARDLESS OF WHETHER ASSESSED AGAINST TENANT OR LANDLORD, WITHIN THE PRESCRIBED TIME PERIOD, THEN TENANT SHALL BE LIABLE FOR ALL COSTS AND EXPENSES RESULTING FROM SUCH VIOLATION(S) AND LANDLORD SHALL HAVE THE RIGHT TO CORRECT ANY SUCH CONDITION(S) AT TENANT'S SOLE EXPENSE.

1. ACCESSIBLE CASHWRAP AND BACKWRAP COUNTERS FURNISHED BY OWNER AND INSTALLED BY G.C. REFER TO CASHWRAP DETAILS ON SHEET A10.6. SEE ELECTRICAL DRAWINGS FOR ALL ELECTRICAL REQUIREMENTS. RECESSED DIGITAL SCREEN DIMENSIONS ARE 9'-0 $\frac{3}{4}$" W X 4'-0 $\frac{3}{4}$" H. REFER TO 19/A10.6 FOR MORE INFORMATION.
2. H WALL TO BE BOLTED TO THE FLOOR AS PER MANUFACTURER'S SPECIFICATION. REFER TO ELECTRICAL DRAWINGS FOR POWER INFORMATION.
3. MOVEABLE CENTER WALLS (MCW). LIGHT BOX INSTALLED AS INDICATED. MIRRORS TO BE INSTALLED AT REAR SIDE. POWER REQUIRED FROM ABOVE VIA CURLY CABLE, TO BE FINISHED BLACK. REFER TO ELECTRICAL DRAWINGS.
4. CLEAR LACQUER FLIGHTCASE FIXTURE. REFER TO 7/A10.6 FOR MORE INFORMATION. ELECTRICAL FEED FROM ABOVE V/A CONDUIT AT THE BACK END OF FIXTURE, CONDUIT AND JBOX TO BE PAINTED BLACK PT-4. ON. MIRROR TO BE INSTALLED AT THE REAR.
5. WOMEN'S FIXTURES TO HAVE LIGHT GREY FINISH.
6. MENS, JUNIORS, CHILDRENS, INFANTS, SANDALS, ACCESSORIES FIXTURES TO BE FINISHED CLEAR LACQUER.
7. NOT USED
8. LIGHTBOX PROVIDED BY OWNER AND INSTALLED BY GC.
9. TYPICAL PERIMETER POST 9'-10 1/8" HIGH. REFER TO SHEET A10.2 FOR MORE INFORMATION. METAL STRAPPING TO BE PROVIDED INSIDE OF THE WALL. REFER TO SHEET A04.2 AND ELECTRICAL DRAWINGS FOR POWER INFORMATION.
10. APPAREL FIXTURE. NEW APPAREL STOCK RACKING. RACKS TO BE 10'-0", PROVIDED BY OWNER AND INSTALLED BY VENDOR.
11. FITTING ROOM LAMINATED PANELS, DOOR, CUSTOM BENCH, AND ACCESSORIES PROVIDED BY VENDOR AND INSTALLED BY G.C. SEE A06.2 FOR MORE INFORMATION.
12. NEW STOCK RACKING FOR FOOTWEAR AND CARDBOARD CONTAINERS. RACKS ARE 10'-0" HIGH. PROVIDED BY OWNER AND INSTALLED BY VENDOR.
13. NEW RECEIVING DESK AND SHELVING ABOVE PROVIDED AND INSTALLED BY GC. MUST ACCOMMODATE INSTALLATION OF A DETAGGER. REFER TO 3&4/A10.1A AND TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
14. METAL STORAGE. GC TO PROVIDE IN WALL BLOCKING AS REQUIRED. REFER TO DETAIL 22/A10.2.
15. GC TO INSTALL DETAGGERS PROVIDED BY OWNER AT CASHWRAP. GC TO INSTALL DETAGGERS PRIOR TO CASHWRAP FACE AT PRE DRILLED HOLES.
16. 30"X48" CLEARANCE FOR ACCESSIBLE CASHWRAP DESK.
17. NEW MOBILE SERVICE POINT. POWER REQUIREMENTS TBD.
18. 6 DOOR LOCKERS AND SPECIFICATIONS TO BE PROVIDED BY GC.
19. LIGHT BOX TO BE INSTALLED AT TOP AND BOTTOM USING EXTENDED RSP BAR BEHIND ALL ACCESSORY PERIMETER BAYS. PROVIDED BY OWNER AND INSTALLED BY GC. GC TO ALSO INSTALL THE LIGHTBOX SKIN. SKINS ARE PROVIDED BY OWNER.
20. NEW 55" DIGITAL SCREENS. REFER TO 19/A10.6 FOR MORE INFORMATION. SEE ELECTRICAL DRAWINGS FOR POWER INFORMATION. GC TO INSTALL TRIM/SHROUD AROUND THE LED DISPLAYS. 5/8" TRIM/SHROUD TO BE SUPPLIED BY OWNERS VENDOR.
21. FOOTWEAR ORDERING SCREENS (FOS) TO BE SUSPENDED FROM THE DECK. BOTTOM OF SCREENS TO BE 9'-0" AFF. POWER AND DATA TO BE LOWERED TO BE BETWEEN TVS. SEE DETAIL 1/A10.6. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
22. 3 DOOR LOCKERS AND SPECIFICATIONS TO BE PROVIDED BY GC.
23. COAT HOOKS (ULINE H-8579) TO BE PROVIDED BY GC.
24. NOT USED
25. RELOCATED STOCK RACKING.
26. FLOOR TO CEILING POSTS. REFER TO A02.0 FOR HEIGHT INFORMATION. BLOCKING TO BE FIRE-TREATED AND MOUNTED INSIDE SOFFIT. REFER TO ELECTRICAL DRAWING FOR POWER INFORMATION. GC TO CUT ON SITE.
27. SINGLE-SIDED LIGHTBOX TYP. AT STOREFRONT. PROVIDE FIRE-TREATED BLOCKING WITHIN SOFFIT. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
28. LIGHTBOX TYP. BOLT STOREFRONT LIGHTBOXES TOGETHER VERTICALLY. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
29. (N) INSPECTOR TEST ACCESS PANELS

9 KEY NOTES
SCALE: NTS

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Seal:

A Project for:

JD SPORTS #1425
LAS AMERICAS PREMIUM OUTLETS
4155 CAMINO DE LA PLAZA SPACE 0448A
SAN DIEGO, CA 92173

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PORTFOLIO REFERENCE ONLY
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GENERAL ARRANGEMENT PLAN

Sheet #:
A02.1

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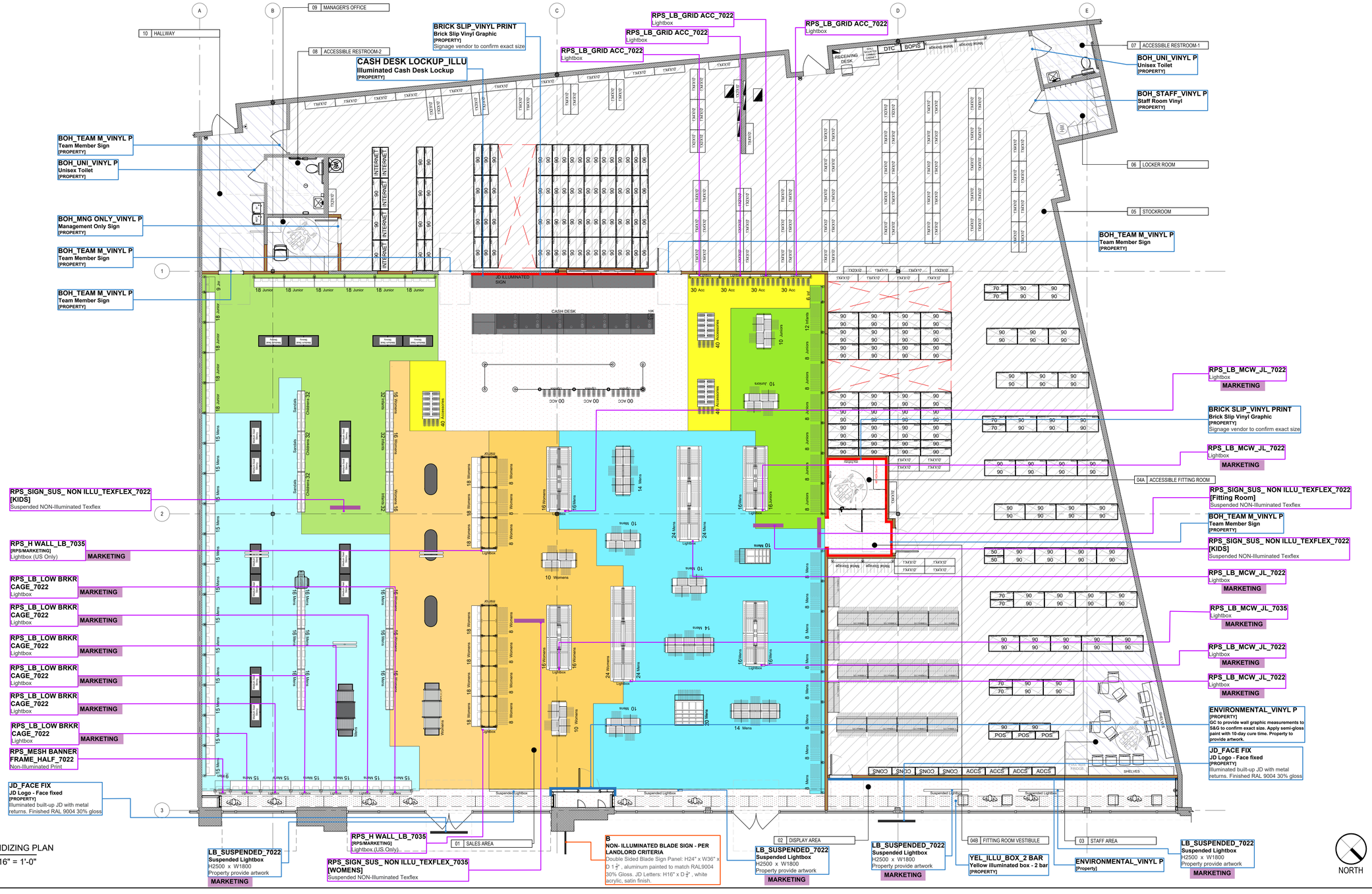
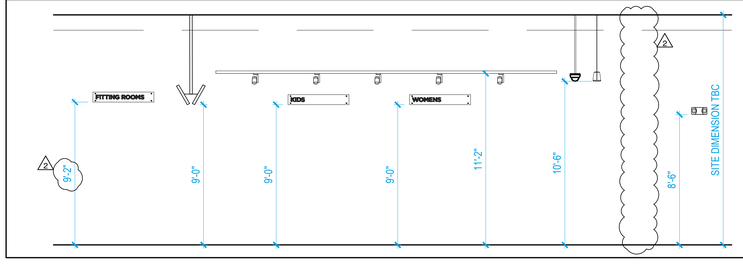


18 MERCHANDIZING PLAN
SCALE: 3/16" = 1'-0"

SUSPENDED - RPS SIGNAGE, LIGHTING, CAMERAS, MOTION SENSORS, EAS, EM LIGHTS



MERCHANDISING LEGEND

APPAREL	FOOTWEAR
Mens	Mens
Womens	Womens
Juniors/Infants	Juniors/Infants
Replica	

ACCESSORIES	ANCILLARY
Accessories	Retail Operations
	BOH Ancillary
	Stockroom

COLOR BOX LEGEND

- REAL ESTATE
- RPS ITEM
- BESPOKE ITEM

DEPARTMENT AREAS

	ft²	%
Textiles	2301 sq ft	23%
Footwear	2406 sq ft	24%
Accessories	167 sq ft	2%
Retail Operation	100 sq ft	1%
Ancillary BOH	315 sq ft	3%
Stockroom	4893 sq ft	48%
Total	**10183 sq ft**	**100%**

SIGNAGE & GRAPHICS LEGEND

VINYL PRINTS

BRICK SLIP_ VINYL PRINT	BRICK SLIP_VINYL PRINT (Durable vinyl graphic to match Ply Finish)
STAFF ROOM_ VINYL PRINT	Staff Room Vinyl Full cover digital print with matt over laminate
SSP _ VINYL PRINT	Satellite Service Point Graphic (SSP) (Durable vinyl graphic)

MERCHANDISING REQUIREMENTS

APPAREL

	Target	Achieved	+/-	Effective M	Split
Mens	360	302	-58	38	28%
Replica	0	0	0	0	0%
Womens	144	148	4	19	14%
Junior	96	84	-12	11	8%
Infants	24	24	0	2	1%
Total	624	**558**	-66	**69**	**51%**

FOOTWEAR

	Target	Achieved	+/-	Effective M	Split
Mens	420	423	3	28	21%
Womens	216	222	6	12	9%
Junior	198	189	-9	11	8%
Child	80	96	16	3	2%
Infants	64	96	32	3	2%
Total	978	**1026**	48	**57**	**43%**

ACCESSORIES

	Target	Achieved	+/-	Effective M	Split
	300	240	-60	**8**	**6%**
TOTAL EFFECTIVE M				**133.8 M**	**100%**

TOTAL AREAS - Proposed		
Gross Area	11708 sqft	100%
Retail Area	5807 sqft	50%
BOH Ancillary	640 sqft	5%
BOH Stockroom	5009 sqft	43%

STORE DATA	
Store Grade/ Color Kit	Streamline
Color Kit	Dual Color Kit
Store Type	Outlet
Storefront Width	111'-0"
Store Width	128'-9"

RETAIL REQUIREMENTS	
Fitting Rooms	1 ADA
Tills	7 + 1 ADA
Lift	0
Escalators	0
Dumb Waiters	0
Footwear Ordering	3 sets

17 DEPARTMENT KEY
SCALE: NTS

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MERCHANDISE PLAN

Sheet #:
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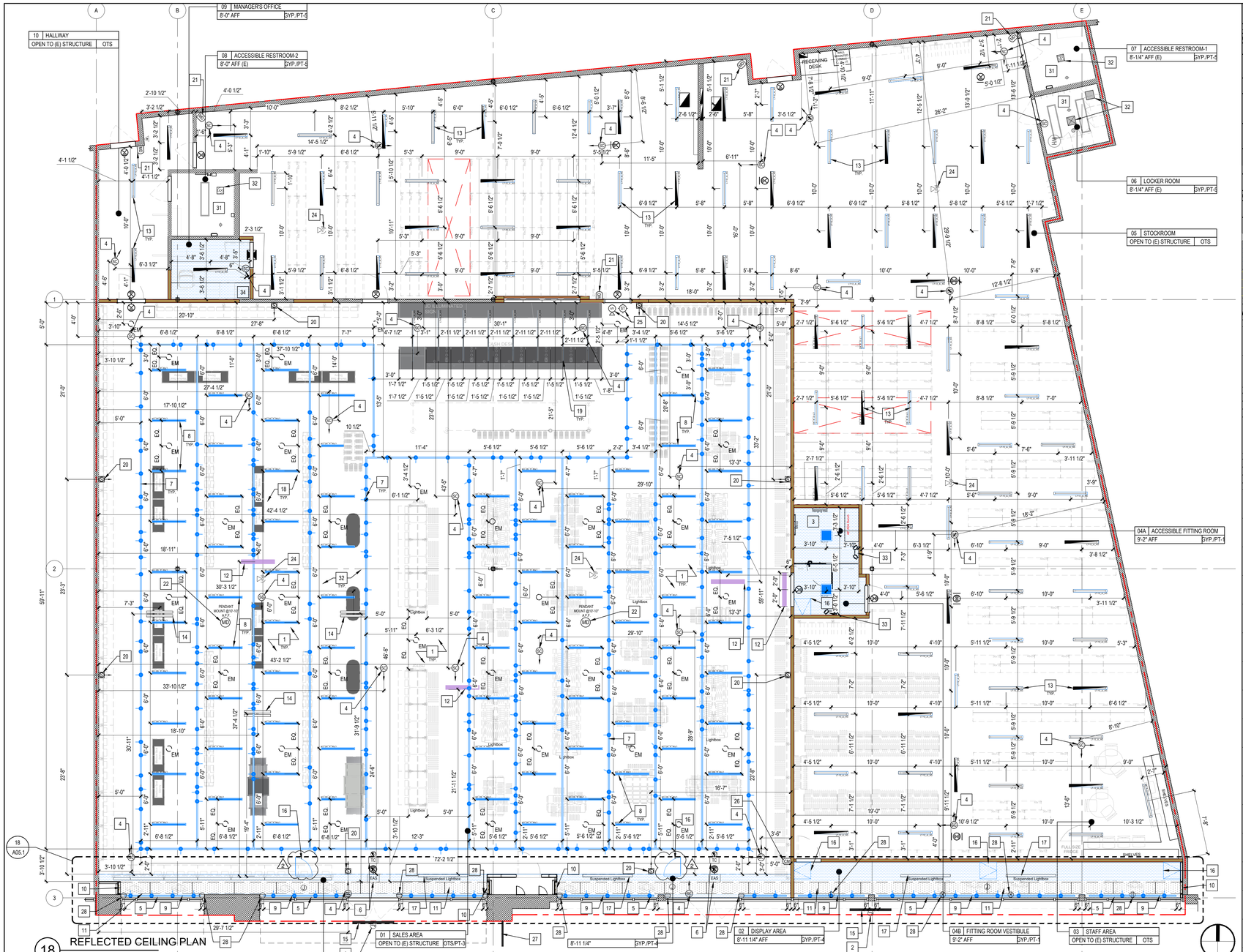


18 REFLECTED CEILING PLAN
SCALE: 3/16" = 1'-0"

NORTH

LIGHTING SCHEDULE

ALL GRADES

FIXTURE SYMBOL	FIXTURE TAG	DESCRIPTION	LOCATION	HEIGHT (BOTTOM OF)	FINISH	COMMENTS
	LT_09_JL_SO_CR	4' LINEAR TECH BATTENS	SALES	11'-2" A.F.F.	BLACK	6'-0" O.C. STAGGERED BETWEEN ROWS
	LT_06_JL_AG	BLACK TRACK HEAD	SALES DISPLAY WINDOWS	MOUNTED TO BLACK TRACK	BLACK	1 LIGHT PER BAY 2 LIGHTS PER EACH SIDE OF FLIGHTCASES 2 LIGHTS PER EACH FLOOR FIXTURE
	XTS4300-2	BLACK TRACK	SALES DISPLAY WINDOW	11'-2" A.F.F.	BLACK	TRACKS TO BE CONNECTED TYP. 5'-0" AWAY FROM PERIMETER WALL
	LT03_JL_AG	6'-0" BOP LIGHTS	CASHWRAP	w/ CANOPY: 9'-0" A.F.F. w/o CANOPY: 9'-10" A.F.F.	SATIN NICKEL	CENTERED ABOVE EACH CASHWRAP BAY CENTERED ABOVE FROM FRONT OF CASHWRAP TO BACKSIDE OF BACKWRAP HUNG FROM AIRCRAFT CABLES
	LT12_JL_AG	4' LINEAR LIGHT	STOCK ROOM MANAGERS OFFICE STAFF ROOM	STOCKROOM: VARIES MANAGERS OFFICE: SURFACE MOUNTED STAFF ROOM: SURFACE MOUNTED	WHITE	HEIGHTS VARY DEPENDING ON HEIGHT OF THE RACKING. TYP. 18" ABOVE RACKING. SPACING 10'-0" O.C. CENTERED IN THE STOCKROOM RACKING AISLES
	LT12_JL_AG	4' LINEAR EMERGENCY LIGHT	STOCK ROOM MANAGERS OFFICE STAFF ROOM	STOCKROOM: VARIES MANAGERS OFFICE: SURFACE MOUNTED STAFF ROOM: SURFACE MOUNTED	WHITE	HEIGHTS VARY DEPENDING ON HEIGHT OF THE RACKING. TYP. 18" ABOVE RACKING. SPACING 10'-0" O.C. CENTERED IN THE STOCKROOM RACKING AISLES
		JUST LANDED YELLOW LIGHTBOXES	STOREFRONT	PER PROJECT REQUIREMENTS	YELLOW ACRYLIC	RECESSED/SURFACE MOUNTED MAX LENGTH IS 5'-0" AND MIN. LENGTH IS 2'-0" WIDTH CANNOT BE ALTERED
FIXTURE SYMBOL	FIXTURE TAG	DESCRIPTION	LOCATION	HEIGHT (BOTTOM OF)	FINISH	COMMENTS
	FR_LT_01	15" x 15"	FITTING ROOMS	SURFACE MOUNTED TO CEILING	WHITE	FITTING ROOM CUBICLES AND VESTIBULE

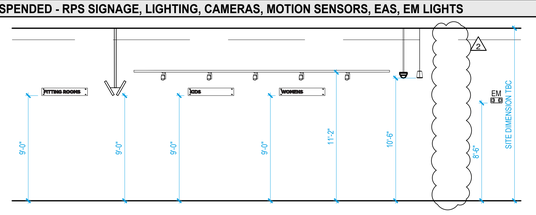
RCP LEGEND

	Drop Plasterboard Ceiling @ 2800mm (9' 2") AFF. Painted finish.	Typical Plasterboard ceiling in fitting rooms & staffwelfare
	Just Landed Yellow Illumination.	
	Slim Yellow Illumination.	
	DIRECTIONAL SECURITY CAMERAS INSTALLED ON SUSPENDED DROP POLES (TO OPEN CEILINGS ONLY) @ 10'-10" / 3300mm OWNER SUPPLIED, NUTECH INSTALLED	CCTV Cameras Canada
EAS	EAS SYSTEM INFLIGHT RFID PRODUCT # 515636 QTY: #### SUSPENDED (10'-8" / 3251mm) TO U/S AFF OWNER SUPPLIED / CONTROL TEK INSTALLED / ECHO CONNECTED	EAS system
PS	PENDANT SPEAKER 36W 25V/ 4V 10'-10" / 3300mm SUSPENDED TO U/S PS-104EWLWH-L BLACK QTY: ####	Pendant speaker CANADA
F.W. ORDER SCREENS	FOOTWEAR ORDER SCREENS LCD SCREENS SUSPENDED @ 9' / 2743mm TO U/S 43" THIN BEVEL BLACK QTY: 2 SUSPENDED SALES FLOOR + 1 WALL-MOUNT STOCK ROOM OWNER SUPPLIED, ECHO INSTALLED	Double sided foot wear ordering screen
S.W. ORDER SCREEN	FOOTWEAR ORDER SCREENS LCD SCREENS SUSPENDED @ 9' / 2743mm TO U/S 43" THIN BEVEL BLACK QTY: 1 SUSPENDED SALES FLOOR + 1 WALL-MOUNT STOCK ROOM OWNER SUPPLIED, ECHO INSTALLED	Single sided foot wear ordering screen
	2 x 2' (610 x 610mm) ACCESS HATCH REQUIRED TO ALL ROOMS WITH NEW GYPSUM BOARD CEILING GC TO ENSURE HATCH DOES NOT CLASH WITH LIGHTING OR MECHANICAL LAYOUT.	Access hatch for any gypsum ceilings/bulkheads.
	2 x 2' (610 x 610mm) ACCESS PANEL REQUIRED FOR ENTRY BULKHEAD. GC TO ENSURE HATCH DOES NOT CLASH WITH LIGHTING OR MECHANICAL LAYOUT.	Access panel for entry bulkheads.
TC	TRAFFIC COUNTER. PROVIDE CONDUIT FOR DATA	
EAS	OVERHEAD EAS SYSTEM. PROVIDE CONDUIT FOR DATA	
	WIRELESS ACCESS POINT. PROVIDE CONDUIT FOR DATA. SEE DETAIL 3/A10.6.	
CM	CURTAIN WALL MOUNTED MOTION	
MD	WALL MOUNTED MOTION	
MD	360 MOTION CEILING MOUNTED	
S	ALARM SIREN	
ST	SECURITY ALARM STROBE LIGHT	
KP	KEY PAD	
SP	KLIPSCH CA-800T BLACK SURFACE SPEAKER	
V1	REMOTE VOLUME CONTROL (10K POTENTIOMETER)	
	SURFACE MOUNT DOOR CONTACT	
	WALL MOUNTED ILLUMINATED EXIT SIGN WITH 6" HIGH **RED** LETTERS AND LISTED/LABELED IN ACCORDANCE WITH UL 924. REFER TO ELECTRICAL DRAWINGS.	
	CEILING MOUNTED ILLUMINATED EXIT SIGN WITH ARROW - WITH 6" HIGH **RED** LETTERS AND LISTED/LABELED IN ACCORDANCE WITH UL 924. REFER TO ELECTRICAL DRAWINGS.	
	EMERGENCY CAN LIGHT IN SALES AREA. TO BE MOUNTED WITH UNDERSIDE AT 11'-2" A.F.F.	
	BUG-EYE EMERGENCY LIGHT IN FITTING ROOM. TO BE MOUNTED WITH TOP AT 9'-0".	

REFLECTED CEILING PLAN COMMENTS:

- STOREFRONT DISPLAY TRACK LIGHTING AND HANGING GRID FIXTURE MUST NOT BE VISIBLE THROUGH STOREFRONT GLAZING FROM OUTSIDE THE STORE. THE LIGHT FIXTURE MUST BE MOUNTED ON THE BACKSIDE OF THE STOREFRONT SOFFIT OR THE BOTTOM OF THE CEILING.
- NOTHING IS PERMITTED TO BE ATTACHED TO, SUSPENDED FROM, OR PENETRATE LANDLORD'S STRUCTURE, FLOOR DECK, OR ROOF DECK. YOU MAY ATTACH NON-DESTRUCTIVELY, TO OR SUSPEND FROM THE TOP CHORD OF THE JOIST OR THE STRUCTURAL STEEL WHICH EXISTS ABOVE THE TENANT SPACE. WHEN ATTACHING TO LANDLORD'S STRUCTURE, DO NOT DRILL, WELD, SCREW, OR SHOOT INTO STRUCTURE. ALTERNATIVE METHODS OF ATTACHMENT ONLY, NOTHING TO DAMAGE LANDLORD'S BASE BUILDING STRUCTURE. TENANT SHALL PROVIDE SIGNED AND SEALED STRUCTURAL DRAWINGS, BY A STRUCTURAL ENGINEER WITH LEGALLY ACTIVE REGISTRATION AS INDICATED BY ALL JURISDICTIONAL REQUIREMENTS, FOR ALL STRUCTURAL MODIFICATIONS FOR LANDLORD RECORDS.
- CAMERA MUST BE MOUNTED NO CLOSER THAN 10' BEHIND THE FRONT ENTRY DOORS AND THE CAMERA VIEWING AREA MUST NOT EXTEND INTO THE COMMON AREA BEYOND THE TENANT'S DEMISED PREMISES. CAMERA MUST NOT BE VISIBLE FROM THE EXTERIOR OF THE SPACE.
- SPEAKERS MAY NOT BE MOUNTED ON DEMISING WALLS. CEILING MOUNTED SPEAKER LOCATIONS MUST BE A MINIMUM OF 10' BEHIND THE FRONT DOOR AND 5' IN FROM DEMISING WALLS. TENANT MUST ENSURE THAT MUSIC VOLUME IS MAINTAINED AT A LEVEL WHICH CANNOT BE HEARD OR THE VIBRATIONS FROM WHICH CANNOT BE FELT OUTSIDE THE DEMISED PREMISES. IF SUCH A LEVEL IS NOT MAINTAINED, IT WILL BE THE TENANT'S RESPONSIBILITY AND EXPENSE TO INSTALL SOUNDPROOFING TO ACHIEVE THE SOUND LEVEL AS DETERMINED BY LANDLORD. IF TENANT FAILS TO MEET LANDLORD REQUIREMENTS, LANDLORD HAS THE RIGHT TO REQUIRE TENANT TO CEASE PLAYING MUSIC.
- ANY LANDLORD EQUIPMENT, COMPONENT, AND/OR SERVICE FEEDING OTHER TENANT(S) THAT IS EXISTING IN THE SPACE MUST REMAIN VISIBLE AND ACCESSIBLE TO THE LANDLORD. TENANT SHALL INSTALL ACCESS PANELS AS REQUIRED TO MAINTAIN ACCESS. ACCESS PANELS SHALL BE LABEL TO PROPERLY IDENTIFY SYSTEM, COORDINATE WITH PROPERTY MANAGEMENT TEAM.
- SIMON PREMIUM OUTLETS REQUIRES ALL TENANTS TO USE LANDLORD'S REQUIRED CONTRACTOR FOR ALL FIRE ALARM AND SPRINKLER WORK. TENANT IS RESPONSIBLE TO SEND SPRINKLER PLANS TO GLOBAL RISK CONSULTANTS IF REQUIRED BY THE CENTER. SEE RULES & REGULATIONS ON SIMON.COM.

SUSPENDED - RPS SIGNAGE, LIGHTING, CAMERAS, MOTION SENSORS, EAS, EM LIGHTS



1. ALL CEILING HEIGHTS ARE FROM TOP OF FINISH FLOOR TO UNDERSIDE OF FINISH CEILING OR LIGHT FIXTURE - TYP. U.O.N.
2. THE GC SHALL SET ALL CEILING AND SOFFITS USING A LASER LEVEL TO ACHIEVE A CEILING THAT IS PLUMB, LEVEL AND SQUARE TO ALL WALLS AND SOFFITS
3. LATERAL BRACING FOR SUSPENDED CEILING MUST BE PROVIDED BY CEILING CONTRACTOR. ADDITIONAL HANGER RODS AND SAFETY WIRES FOR LIGHT FIXTURES, DUCTWORK, SPEAKERS, ETC. TO BE THE RESPONSIBILITY OF THE CEILING CONTRACTOR
4. THE GC TO VERIFY W/ LL, METHOD OF ATTACHMENT FOR ALL ITEMS ANCHORED TO, OR SUSPENDED FROM EXISTING STRUCTURE
5. ARCH. DRAWINGS DETERMINE THE LOCATION OF LUMINAIRES & SUPERSEDE ALL OTHERS, TYP. U.O.N. - REFER TO ELEC. DRAWINGS FOR EXACT FIXTURE TYPE & QUANTITIES PROVIDED
6. GC TO COORDINATE AIMING OF LIGHT FIXTURES WITH OWNER.
7. REFER TO MECHANICAL DRAWINGS FOR EXPOSED SUSPENDED MECHANICAL DUCTWORK DISTRIBUTION SYSTEM
8. PROVIDE ADEQUATE CLEARANCES FOR FIXTURES, DUCTS, CEILINGS AND RELATED PERTINENT ITEMS NECESSARY TO MAINTAIN SPECIFIC HEIGHTS ABOVE FINISH FLOOR
9. THE GC TO PROVIDE NECESSARY BLOCKING AND BRACING FOR FIXTURE INSTALLATION AND ALL ELECTRICAL COMPONENTS TO COMPLETE THE FINAL INSTALLATION OF ALL FIXTURE - COORDINATE WITH FIXTURE SUPPLIER.
10. NO CONNECTIONS TO LANDLORD'S ROOF DECK WILL BE PERMITTED. COORDINATE ANY NEW ROOF PENETRATIONS WITH LANDLORD AND LANDLORD'S ROOF CONTRACTOR
11. DIMENSIONS ARE FROM FACE OF GYP. BD. TYP. U.O.N.
12. COORDINATE ADDITIONAL CEILING ACCESS DOORS W/ PROJECT MANAGER AND AS REQUESTED BY LANDLORD TO MAINTAIN ACCESS TO LANDLORD EQUIPMENT. MAINTAIN ACCESS TO LANDLORD'S HVAC, ELECTRICAL, AND PLUMBING SYSTEMS, INCLUDING CLEANOUTS, VALVES DAMPERS, J" BOXES, SMOKE DETECTORS, ETC.
13. ALL RIGID CONDUIT AND JUNCTION BOXES TO BE RUN TIGHT TO DECK IN A CLEAN AND ORDERLY FASHION.
14. PROVIDE UNISTRUT SPANNING FROM LANDLORD'S STRUCTURE AS REQUIRED.
15. PAINT UNISTRUT, HVAC DUCTS, LIGHTING ESCUTCHEON RINGS/CANOES, AND SALES FLOOR EMERGENCY LIGHTS TO MATCH CEILING PT-3
16. USE ZIP TIES FOR ALL CORD/WIRE MANAGEMENT, BLACK ZIP TIES TO BE USED FOR BLACK CEILINGS.
17. BOTTOM OF SUSPENDED TRACK LIGHTING AND LT_09 LINEAR LED FIXTURES AT SALES FLOOR TO BE 11'-2" AFF.
18. BOTTOM OF EMERGENCY LED LIGHTS AT SALES FLOOR TO BE 11'-2" AFF.
19. MOUNT RELOCATED STOCK ROOM LIGHTING AT SAME HEIGHT AFF AS EXISTING ADJACENT STOCK ROOM LIGHTING
20. MOUNT SPEAKERS ON WALL AT 11'-4" A.F.F IN THE GREY WALL FINISH GC TO PROVIDE J-BOX AT EACH SPEAKER LOCATION. FOR JBOX REQUIREMENT FOR SPEAKERS, REFER TO THE ELECTRICAL PLANS.
21. BOTTOM OF FOOTWEAR ORDERING SCREENS AT 9'-0" AFF. AT SUSPENDED FOOTWEAR ORDERING SCREENS, GC TO PROVIDE UNISTRUT SPANNING FROM LANDLORD'S STRUCTURE AS REQUIRED.
22. LT_06 TRACK HEAD TO BE SUSPENDED FROM TRACK LIGHTING.
23. INDICATIVE LIGHTING LAYOUT SHOWING DESIGN INTENT & QTY. LIGHTING CONTRACTOR TO PERFORM LIGHTING CALCULATIONS FOR APPROVAL BY JD. LIGHTING CONSULTANT TO CONFIRM EMERGENCY LIGHTING REQUIREMENTS. BOH LIGHTING REQUIREMENTS AS PER JD SETTING OUT.
24. GC TO PROTECT ACRYLIC PANELS OF LIGHT BOXES DURING CONSTRUCTION. DO NOT APPLY TAPE TO ACRYLIC PANELS.
25. LIGHTING LAYOUT SHOWN FOR DESIGN INTENT AND QUANTITY. LIGHTING CONTRACTOR TO PERFORM LIGHTING CALCS FOR JD APPROVAL. ELECTRICAL ENGINEERS TO CONFIRM EM LIGHTING REQUIREMENTS PER CODE.
26. MODIFY EXISTING SPRINKLER SYSTEM THROUGHOUT THE AREA OF WORK IN ACCORDANCE TO CODE

17 GENERAL NOTES
SCALE: NTS

1. ALL EXPOSED DUCTWORK, CEILING STRUCTURE, PIPING, UNISTRUT, HVAC GRILLES, SPRINKLER PIPING; ETC TO BE PAINTED RAL 7012 / PT-3
2. PROVIDE JUNCTION BOX ABOVE SOFFIT AS REQUIRED TO ACCOMMODATE JD SIGNAGE.
3. 5/8" THICK GWB TYPE 'X' OVER SUSPENDED CEILING SYSTEM. REFER TO A07.1 FOR FINISH INFORMATION.
4. SECURITY CAMERA - REFER TO ELECTRICAL DWGS. CONFIRM LOCATIONS WITH LOSS PREVENTION PRIOR TO INSTALLATION. GC TO INSTALL CLINTON POLES AS PER MANUFACTURER'S SPECIFICATIONS. GC TO INSTALL PULL STRINGS FOR VENDOR TO RUN CABLES & DOOR FRAME CAMERAS AT ENTRANCE DOORS.
5. 5/8" TYP "X" GYP. BD. ON 3 5/8" X 18 GA. METAL STUD CEILING JOISTS @ 16" O.C. BOTTOM OF SOFFIT @ 8'-11 1/2" AFF. REFER TO A07.1 FOR FINISH INFORMATION
6. EAS AND TRAFFIC COUNTER SYSTEM TO BE ATTACHED TO WALL @ 10'-0" REFER TO ELECTRICAL DRAWINGS.
7. TRACK LIGHTING TO BE MOUNTED WITH UNISTRUT SUSPENDED USING THREADED RODS @ 11'-2" AFF TO BOTTOM OF FIXTURE, THREADED RODS TO BE PROVIDED BY GC, SEE DETAIL 17/A10.5
8. LT_09 FIXTURE MOUNTED CENTRALLY WITHIN THE TRACK AT 6'-0" ON CENTER HUNG BY AIRCRAFT CABLE. MINIMUM 1'-8" FROM TRACK AT EACH END. GC TO PROVIDE AIRCRAFT CABLE. SEE DETAIL 17/A10.5
9. LIGHTING TRACK IN WINDOW TO BE SURFACE MOUNTED. SEE DETAIL 17/A05.2 FOR MORE INFORMATION.
10. YELLOW ILLUMINATED RETURN BOXES, SEE A05.1 - STOREFRONT PLAN AND ELEVATION TYP.
11. YELLOW ILLUMINATION CEILING BOX, SEE A05.1 - ENLARGED STOREFRONT RCP
12. SUSPENDED NON-ILLUMINATED TEXFLEX GENDERED SIGN AT 9'-0" AFF FROM BOTTOM OF SIGN, SEE 2/A10.6. FITTING ROOM SIGN AT 9'-0" IN FRONT OF OPENING, SEE 19/A06.1 FOR MORE INFORMATION.
13. STOCK ROOM LIGHTING TO BE INSTALLED AT 13'-0", GC TO VERIFY HEIGHT ON FIELD.
14. FOOTWEAR ORDERING SCREENS TO BE SUSPENDED FROM THE DECK. BOTTOM OF SCREENS @ 9'-0" A.F.F. POWER AND DATA TO BE LOWERED TO BE BETWEEN TV'S. CONFIRM MOUNTING HEIGHT WITH JDPM. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION. SEE 1/A10.6 FOR MORE INFORMATION
15. NEW ILLUMINATED JD LOGO SIGNAGE SUSPENDED WITH METAL RETURNS FINISH RAL 9004 /PT-6 30% GLOSS FACE FIXED ONTO STOREFRONT. SEE ELECTRICAL DRAWINGS FOR POWER INFORMATION.
16. 24"x24" ACCESS PANEL AT STOREFRONT SOFFIT AND FITTING ROOM. SEE 9/A10.5 FOR MORE INFORMATION. GC TO MATCH THE FINISH OF THE CEILING. COORDINATE ACCESS PANELS WITH INTERIOR ELEVATION 17/A06.1
17. SUSPENDED LIGHT BOXES AT STOREFRONT. PROVIDE FIRE-TREATED BLOCKING WITHIN SOFFIT.
18. MINIMUM DUCT HEIGHT OF 12'-0" ABOVE FINISHED FLOOR. VERIFY LOCATION ON SITE. RAISE EXISTING SUPPLY AIR DUCT IF NECESSARY TO PROVIDE CLEARANCE FOR LIGHTING FIXTURES. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
19. SUSPENDED LINEAR BOP EXTRUSION LIGHTING TYP. OF 4 TO BE HUNG AT 9'-10" AFF TO UNDERSIDE OF FIXTURE.
20. SPEAKERS TO BE WALL-MOUNTED AT 12'-0" AFF. REFER TO MOOD MEDIA SHOP DRAWINGS AS WELL AS ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
21. WALL MOUNTED MOTION SENSOR. REFER TO NUTECH SHOP DRAWINGS AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
22. 360 MOTION CEILING MOUNTED. PLEASE REFER TO ELECTRICAL SHEETS FOR POWER REQUIREMENTS AND NUTECH SHOP DRAWINGS FOR MORE INFORMATION.
23. NOT USED
24. CEILING MOUNTED ACCESS POINT. REFER TO ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
25. ALARM SIREN AND ALARM STROBE. REFER TO ELECTRICAL DRAWINGS AND NUTECH SHOP DRAWINGS FOR MORE INFORMATION.
26. CURTAIN WALL MOUNTED MOTION SENSOR. REFER TO NUTECH SHOP DRAWINGS AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
27. NEW NON ILLUMINATED BLADE SIGN.
28. NEW DUPLEX POWER AT CEILING FOR STOREFRONT. SEE A04.2 AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
29. NOT USED
30. NOT USED
31. EXISTING CEILING AND LIGHTING TO REMAIN. GC TO CLEAN AND RELAMP AS REQUIRED.
32. EXISTING HVAC SUPPLY-RETURN VENTS AND EXHAUST FANS TO REMAIN. GC TO VERIFY IF THEY REQUIRE REPLACEMENT.
33. BUG EYE LIGHT HEIGHT AT 8'-3" FROM FF TO CENTER OF LIGHT FIXTURE. CONFIRM HEIGHT WITH JD DESIGN TEAM.
34. EXISTING GYP. BD. CEILING TO REMAIN. NEW GYP. BD. CEILING TO MATCH EXISTING FINISH AND CONSTRUCTION.

13 KEY NOTES
SCALE: NTS

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REFLECTED CEILING PLAN

Sheet #:
A04.1

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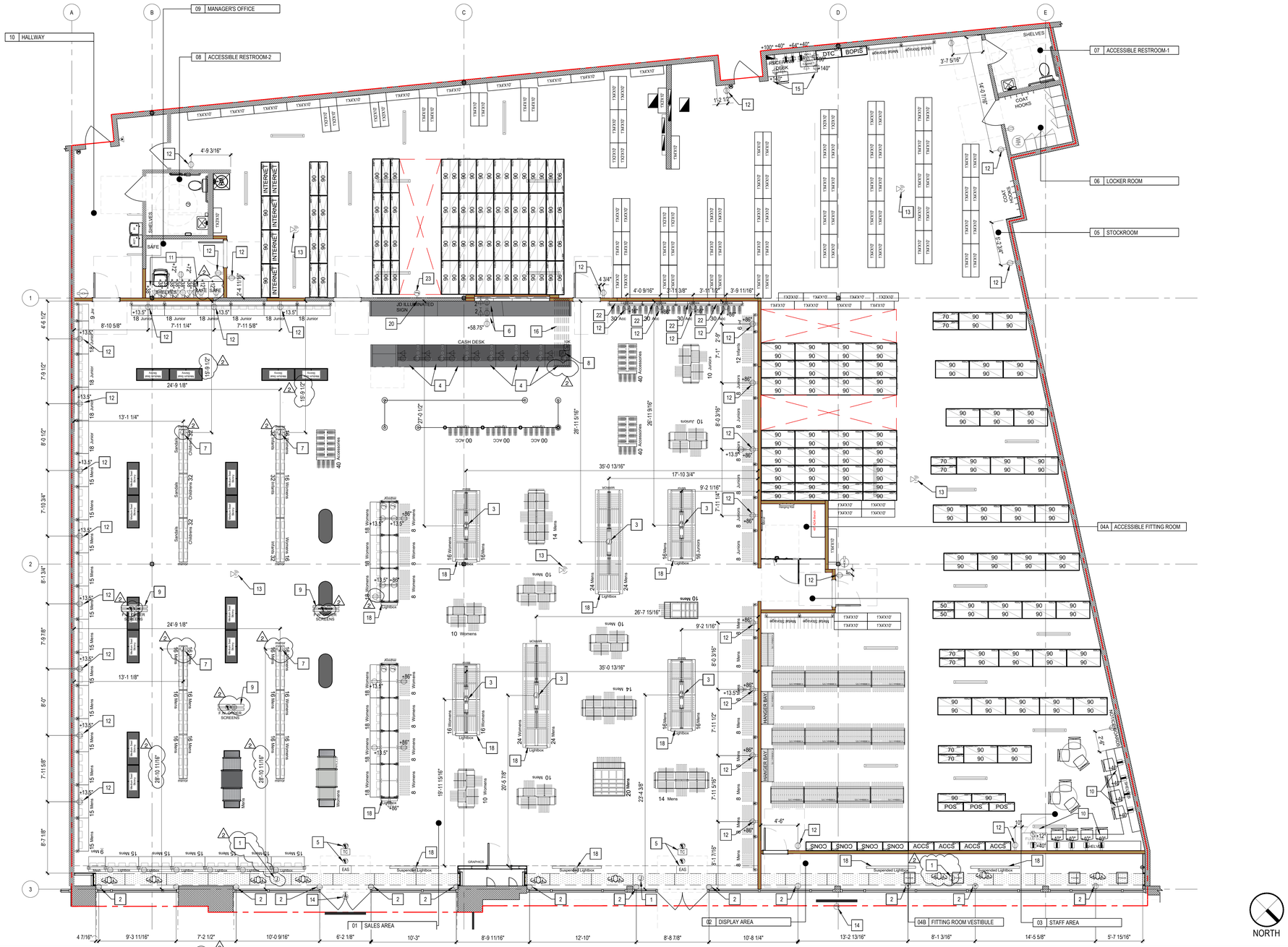

18 ARCHITECTURAL POWER PLAN

SCALE: 3/16" = 1'-0"

NORTH

FIRE PROTECTION / SPRINKLER COMMENTS:

- SIMON PREMIUM OUTLETS REQUIRES ALL TENANTS TO USE ONE OF LANDLORD'S PRE-QUALIFIED SPRINKLER CONTRACTOR(S) FOR TENANT'S SPRINKLER WORK, LISTED ON SIMON.COM. TENANT MAY COMPETITIVELY BID TO ONLY THOSE SPRINKLER CONTRACTORS PRE-QUALIFIED BY LANDLORD.
- THE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL DRAWINGS, DOCUMENTATION AND FLOW CALCULATIONS TO THE LOCAL AUTHORITY HAVING JURISDICTION IN ORDER TO OBTAIN ALL PROPER PERMITS.
- SPRINKLER WORK MAY NEED TO BE REVIEWED/ APPROVED BY SIMON'S INSURER, GLOBAL RISK CONSULTANTS. PLEASE REVIEW ALL RULES AND REGULATIONS ON SIMON.COM FOR PERTINENT INFORMATION.
- SPRINKLER SYSTEM SHALL BE FULLY CHARGED AND OPERATIONAL WHENEVER CONTRACTOR IS NOT ON SITE.
- TENANT GENERAL CONTRACTOR MUST MEET WITH THE PROPERTY MANAGEMENT OFFICE TO FIND OUT THE PROCESS AND FEES ASSOCIATED WITH SPRINKLER DRAIN DOWNS DURING CONSTRUCTION.
- IF LOCAL FIRE DEPARTMENT AND/OR AHJ DETERMINES ADDITIONAL SPRINKLER HEADS AND FIRE ALARM DEVICES WILL BE REQUIRED BASED ON TENANT IMPROVEMENTS, IT IS THE TENANT'S RESPONSIBILITY TO HIRE THE LANDLORD REQUIRED FIRE ALARM & FIRE SPRINKLER CONTRACTOR FOR THIS WORK. TENANT IS RESPONSIBLE FOR ANY CODE REQUIRED CHANGES OR UPGRADES TO EXISTING CONDITIONS. EXISTING BUILDING MONITORING SYSTEM PULL STATIONS AND HORN/STROBES MUST BE KEPT CLEAR OF ALL OBSTRUCTIONS. TENANT OR ITS GENERAL CONTRACTOR MUST VERIFY EXISTING LOCATIONS, AND MAKE ANY APPLICABLE CHANGES PER THE LOCAL JURISDICTION.
- ALL ADDITIONS, EXTENSIONS OR MODIFICATIONS SHALL BE APPROVED BY LANDLORD PRIOR TO INSTALLATION. ALL FIRE ALARM RELATED WORK SHALL COMPLY WITH ALL APPLICABLE CODES AND SHALL BE INSTALLED BY LICENSED, CERTIFIED CONTRACTORS ONLY. ALL CONNECTIONS TO THE LANDLORD'S BASE BUILDING FIRE ALARM SYSTEM SHALL BE COORDINATED WITH THE PROPERTY MANAGEMENT TEAM.
- ALL BACKGROUND MUSIC/PAGING SYSTEMS SHALL BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM TO ALLOW FOR SHUTDOWN OF THE SYSTEM IN AN EMERGENCY SITUATION. CONNECT TO THE EXISTING BUILDING SHUTDOWN RELAY IF ALREADY PROVIDED.
- FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING ALL PROGRAMMING OF ADDRESSABLE DEVICES, SYSTEMS, ETC. OF THE NEWLY INSTALLED FIRE ALARM DEVICES TO SATISFY THE REQUIREMENTS OF THE LOCAL AHJ.
- FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL DRAWINGS, DOCUMENTATION, BATTERY CALCULATIONS, ETC. TO THE LOCAL AHJ TO OBTAIN ALL NECESSARY PERMITS.
- ALL LANDLORD EQUIPMENT, COMPONENT, AND/OR SERVICES FEEDING OTHER TENANT(S) THAT ARE EXISTING IN THE SPACE SHALL REMAIN VISIBLE AND ACCESSIBLE TO THE LANDLORD. TENANT SHALL INSTALL ACCESS PANELS AS REQUIRED TO MAINTAIN ACCESS AND SHALL BE LABELED TO PROPERLY IDENTIFY SYSTEMS. TENANT SHALL COORDINATE LOCATION WITH OPERATIONS DIRECTOR.
- ALL PENETRATIONS TO ROOF MUST BE APPROVED BY LANDLORD. ALL RELATED ROOF WORK MUST BE DONE BY PROPERTY'S DESIGNATED ROOFING CONTRACTOR, AT TENANT'S EXPENSE. COORDINATE ALL WORK WITH PROPERTY MANAGEMENT ON SITE.

17 GENERAL NOTES

SCALE: NTS

1. ALL DIMS TO BE CHECKED ON SITE PRIOR TO MANUFACTURE.
2. WHEN RETAINING EXISTING WALLS OUTLETS TO BE PLACED CENTRALLY TO POST WALL FIXING POINTS ABOVE AND BELOW. TO BE SECURELY FIXED AND FINISHED TO MATCH PROPOSED LOCAL FINISH.
3. G.C. TO CUT DOWN HEIGHT FOR H WALL HEIGHT (FROM BOTTOM) REINSTALL LEVELERS.
4. UNLESS NOTED OTHERWISE, RECEPTACLES SHALL BE PLACED CENTRALLY WITHIN EACH WALL PANEL BAY WHICH ALIGNS WITH THE PANEL AND PERIMETER POST LAYOUT.
5. FOR FLIGHT CASES, ELECTRIC SHOULD RUN THROUGH PIECE OF HARD CONDUIT DOWN CASE CLOSEST TO TO THE BACK WALL UNLESS ADJACENT TO A COLUMN. POWER TO BE RUN DOWN RAW COLUMN IN ENCLOSED CONDUIT AS APPLICABLE. IF COLUMN IS WRAPPED, POWER TO BE RUN BEHIND DRYWALL AND POWER IS TO BE PULLED FROM COLUMN BASE TO FLIGHT CASE BASE. RUN FLEX CONDUIT IN BETWEEN FLIGHT CASE PANELS AT BASE. PAINT CONDUIT CEILING COLOR.
6. REFER TO ELECTRICAL SHEETS FOR POWER INFORMATION. POWER SHOWN ON THIS PLAN FOR COORDINATION ONLY.
7. ALL PERIMETER OUTLETS TO BE CENTERED BETWEEN WALLS STANDARD POSTS.
8. GC TO INSTALL ELECTRIC/DATA IN CASHWRAP BEFORE INSTALLING THE CASHWRAP FRONT PT-5 PANELS.
9. ELECTRICAL AND DATA RECEPTACLE COVER PLATES TO BE:
   WHITE AT PT-1 WALLS THROUGHOUT THE SALES AREA AND PT-5 WALLS IN BACK OF HOUSE.
   BLACK AT WALLS WITH PT-4, PT-6, VN-1 PAINT/VINYL FINISH.
10. SALESFLOOR OUTLET PLATES MUST BE HORIZONTAL.
11. JD TO CONFIRM THAT PLATE COVERS IN FITTING ROOM WILL BE BLACK.

13 KEY NOTES

SCALE: NTS

1	POWER FOR YELLOW ILLUMINATED BOXES TO BE PROVIDED BY CEILING MOUNTED J-BOX. GC TO COORDINATE WITH PORTAL LIGHT PANEL MFG AND PROVIDE DRIVER AND ALL NECESSARY ELEC CONNECTIONS AS REQ.
2	NEW DUPLEX POWER AT CEILING FOR STOREFRONT / SHOW WINDOW RECEPTACLE. SEE ELECTRICAL DWGS.
3	POWER FOR FIXTURES TO BE PROVIDED THROUGH CURLY WIRE CONDUIT FROM CEILING MOUNTED J-BOX.
4	POWER AND DATA FOR POS AT NEW CASHWRAP. COORDINATE WITH ELECTRICAL DWGS. (2) DUPLEX POWER AND (3) DROP DATA PER POS STATION.
5	CEILING MOUNTED DATA FOR EAS PAD AND TRAFFIC COUNTER. COORDINATE FINAL LOCATION WITH VENDOR IN FIELD
6	POWER AND DATA FOR EACH OF 4 RECESSED DIGITAL DISPLAYS BEHIND CASHWRAP. SEE ELEVATION 19/A06.1 AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
7	GC TO PROVIDE POWER THROUGH CEILING, PROVIDE CONDUIT TO BACK OF FIXTURE. COORDINATE FINAL LOCATIONS OF RECEPTACLES WITH FIXTURE AND IN FIELD WITH JD SPORTS PM.
8	LOCATION OF AUDIO VOLUME CONTROL. REQUIRES 1-GANG J-BOX WITH 1/2" CONDUIT STUB UP PROVIDED BY OTHERS
9	CEILING MOUNTED J-BOX FOR SUSPENDED FOOTWEAR ORDERING SCREEN (F.O.S.). AT BOTTOM OF ALL THREADS. GC TO PROVIDE (1) QUAD AND (1) DATA CONNECTION PER SCREEN. SEE ELECTRICAL DWGS.
10	HIGH POWER & USB OUTLETS, HEIGHT AS INDICTED. GC TO VERIFY PLACEMENT. SEE ELECTRICAL DWGS.
11	HIGH POWER AND DATA, HEIGHT AS INDICTED. SEE OFFICE ELEVATIONS AND ELECTRICAL DWGS.
12	NEW WALL POWER/DATA AS INDICATED. FINISH, TYP. REFER TO GENERAL NOTE #9 FOR FINISH.
13	PROVIDE J-BOX AND CONDUIT SUSPENDED FROM CEILING DECK FOR ACCESS POINT. BOTTOM OF J-BOX AT 15'-0" AFF (WAITING FOR SHOP DRAWINGS).
14	POWER FOR SIGNAGE TO BE PROVIDED WITH JUNCTION BOX AND LOCAL DISCONNECT SWITCH. COORDINATE FINAL LOCATION WITH SIGN VENDOR.
15	COORDINATE FINAL LOCATION OF DEVICES WITH BACKBOARD WITH OWNER
16	PROVIDE CONDUITS AS INDICATED ON PLAN. RUN CONDUITS WITHIN TRENCHED/CORED FLOOR AS SHOWN. COORDINATE FLOOR TRENCHING WITH MALL MANAGEMENT / LANDLORD PRIOR TO ROUGH-IN.
17	NOT USED
18	WIRE AND ASSEMBLE LIGHTBOX ONSITE AND PROVIDE POWER AS SHOWN. SEE E-201 FOR MORE INFORMATION.
19	NOT USED
20	CUSTOM SIGNAGE BEHIND CASHWRAP, GC TO COORDINATE WITH SIGNAGE VENDOR FOR DIMENSIONS. SEE ELEC DRAWINGS FOR SIGNAGE JBOX REQUIREMENTS. GC TO COORDINATE MOUNTING HEIGHT WITH THE SIGNAGE VENDOR.
21	NOT USED
22	LIGHTBOXES BEHIND ACCESSORIES PERIMETER WALL BAYS TO BE INSTALLED BY GC.
23	GC TO COORDINATE LOCATION AND HEIGHT OF J-BOX WITH SIGNAGE VENDOR.
24	NOT USED
25	NOT USED

1 ARCHITECTURAL POWER SYMBOL LEGEND

SCALE: NTS

SYMBOL	DESCRIPTION
	FLUSH FLOOR MOUNTED GROUNDED DUPLEX RECEPTACLE W/ COVER. SEE ELECTRICAL DRAWINGS.
	SINGLE WALL RECEPTACLE. SEE ELECTRICAL DRAWINGS AND A-506 FOR MOUNTING HEIGHT.
	DUPLEX WALL RECEPTACLE. SEE ELECTRICAL DRAWINGS FOR MOUNTING HEIGHT.
	QUAD WALL RECEPTACLE. SEE ELECTRICAL DRAWINGS FOR MOUNTING HEIGHT.
	WALL MOUNTED DATA RECEPTACLE. SEE ELECTRICAL DRAWINGS.
	FLUSH FLOOR MOUNTED DATA RECEPTACLE. SEE ELECTRICAL DRAWINGS.
	FLOOR TWISTLOCK OUTLET. SEE ELECTRICAL DRAWINGS.
J,J,J,J	SECTIONAL WIREMOLD GANG BOX. SEE ELECTRICAL DRAWINGS.
J	WALL J-BOX. SEE ELECTRICAL DRAWINGS.
	LOOP VENT (SKIN CARE STUDIO). SEE PLUMBING DRAWINGS.
	WALL TWISTLOCK OUTLET. SEE ELECTRICAL DRAWINGS.
TS	TEMPERATURE SENSOR. SEE MECHANICAL DRAWINGS.
T	THERMOSTAT. SEE MECHANICAL DRAWINGS.
KP	KEY PAD. SEE ELECTRICAL DRAWINGS.
	USB OUTLET. SEE ELECTRICAL DRAWINGS.

NOTES:
1. *EXTRA FLOOR RECEPTACLE (ALWAYS ADD 6-8 OUTLETS TO FILL IN GAPS FOR FUTURE USE)

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ARCHITECTURAL
POWER PLAN

Sheet #:
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STOREFRONT ELEVATION / SECTION COMMENTS:

- LANDLORD REQUIRES TENANTS INSTALLATION OF TEMPORARY LIFESTYLE VINYL GRAPHICS ON STOREFRONT WINDOWS DURING REMODEL/CONSTRUCTION. PROPOSED TEMPORARY STOREFRONT GRAPHICS MUST BE SUBMITTED TO THE TENANT MANAGER FOR LANDLORD APPROVAL BEFORE INSTALLATION. THE LANDLORD DOES NOT ALLOW INSTALLATION OF ANY PLASTIC, FILM OR PAPER BEHIND OR IN FRONT OF STOREFRONT GLASS WHILE TENANT'S CONSTRUCTION IS UNDERWAY.
- ALL SIGNAGE WITHIN THE STOREFRONT AREA MUST BE IN COMPLIANCE WITH LANDLORD STOREFRONT CRITERIA. THE STOREFRONT CRITERIA CAN BE FOUND AT WWW.SIMON.COM.
- TENANT IS PERMITTED TO INSTALL INTERIOR STOREFRONT SECURITY/UV FILM. ALL TENANTS MUST USE THE SPECIFIED WINDOW TINT AS FOLLOWS:
  "ARMORCOAT"
  -2 MIL. CLEAR (STANDARD)
  -4 MIL. CLEAR (SECURITY)
  -7 MIL.-14 MIL. CLEAR (SECURITY PLUS)
  THIS CLEAR FILM REJECTS APPROXIMATELY 99% OF UV BUT PROVIDES NO PROTECTION FROM THE HEAT.

ANOTHER ALTERNATIVE IS PANORAMA HILTE 70 WHICH IS CLEAR ON THE GLASS BUT REJECTS 55% OF SOLAR ENERGY INCLUDING 95% OF NEAR-INFRARED (HEAT FROM THE SUN). IT IS AN ADVANCED FILM. INTERIOR INSTALLATION AND CLEAR FILM ONLY WILL BE PERMITTED.

TENANT TO USE LANDLORD APPROVED STOREFRONT/GLAZING VENDOR TO MATCH EXISTING CONDITIONS WITH NEW GLAZING SYSTEM AND DOOR TYPES WHEN REPLACEMENT IS IN SCOPE. ALL MULLIONS, GLAZING AND DOOR TYPES TO MATCH EXISTING CENTER FINISH.

NOTHING IS PERMITTED TO BE ATTACHED TO, SUSPENDED FROM, OR PENETRATE LANDLORD'S STRUCTURE, FLOOR DECK, OR ROOF DECK. YOU MAY ATTACH, NON-DESTRUCTIVELY, TO OR SUSPEND FROM THE TOP CHORD OF THE JOIST OR THE STRUCTURAL STEEL WHICH EXISTS ABOVE THE TENANT SPACE. WHEN ATTACHING TO LANDLORD'S STRUCTURE, **DO NOT DRILL, WELD, SCREW, OR SHOOT** INTO STRUCTURE. ALTERNATIVE METHODS OF ATTACHMENT ONLY, NOTHING TO DAMAGE LANDLORD'S BASE BUILDING STRUCTURE. TENANT SHALL PROVIDE SIGNED AND SEALED STRUCTURAL DRAWINGS, BY A STRUCTURAL ENGINEER WITH LEGALLY ACTIVE REGISTRATION AS INDICATED BY ALL JURISDICTIONAL REQUIREMENTS, FOR ALL STRUCTURAL MODIFICATIONS FOR LANDLORD RECORDS.

ANY LANDLORD EQUIPMENT, COMPONENT, AND / OR SERVICE FEEDING OTHER TENANT(S) THAT IS EXISTING IN THE SPACE MUST REMAIN VISIBLE AND ACCESSIBLE TO THE LANDLORD. TENANT SHALL INSTALL ACCESS PANELS AS REQUIRED TO MAINTAIN ACCESS. ACCESS PANELS SHALL BE LABEL TO PROPERLY IDENTIFY SYSTEM, COORDINATE WITH PROPERTY'S OPERATIONS DIRECTOR.

WHEN STOREFRONT GRILLES ARE PERMITTED BY LANDLORD, THEY MUST BE FLOOR SUPPORTED AND SHALL ATTACH TO LANDLORD'S STRUCTURE FOR LATERAL SUPPORT ONLY. WHEN IN OPEN POSITION, BOTTOM RAIL OF GRILLE MUST BE FULLY RECESSED INTO CEILING TREATMENT ABOVE. NO WELDING TO STRUCTURE IS PERMITTED.

ANY DAMAGE TO LANDLORD PROPERTY OR ADJACENT TENANTS DURING CONSTRUCTION MUST BE REPAIRED TO LANDLORD SPECIFICATIONS, AT TENANT'S EXPENSE.

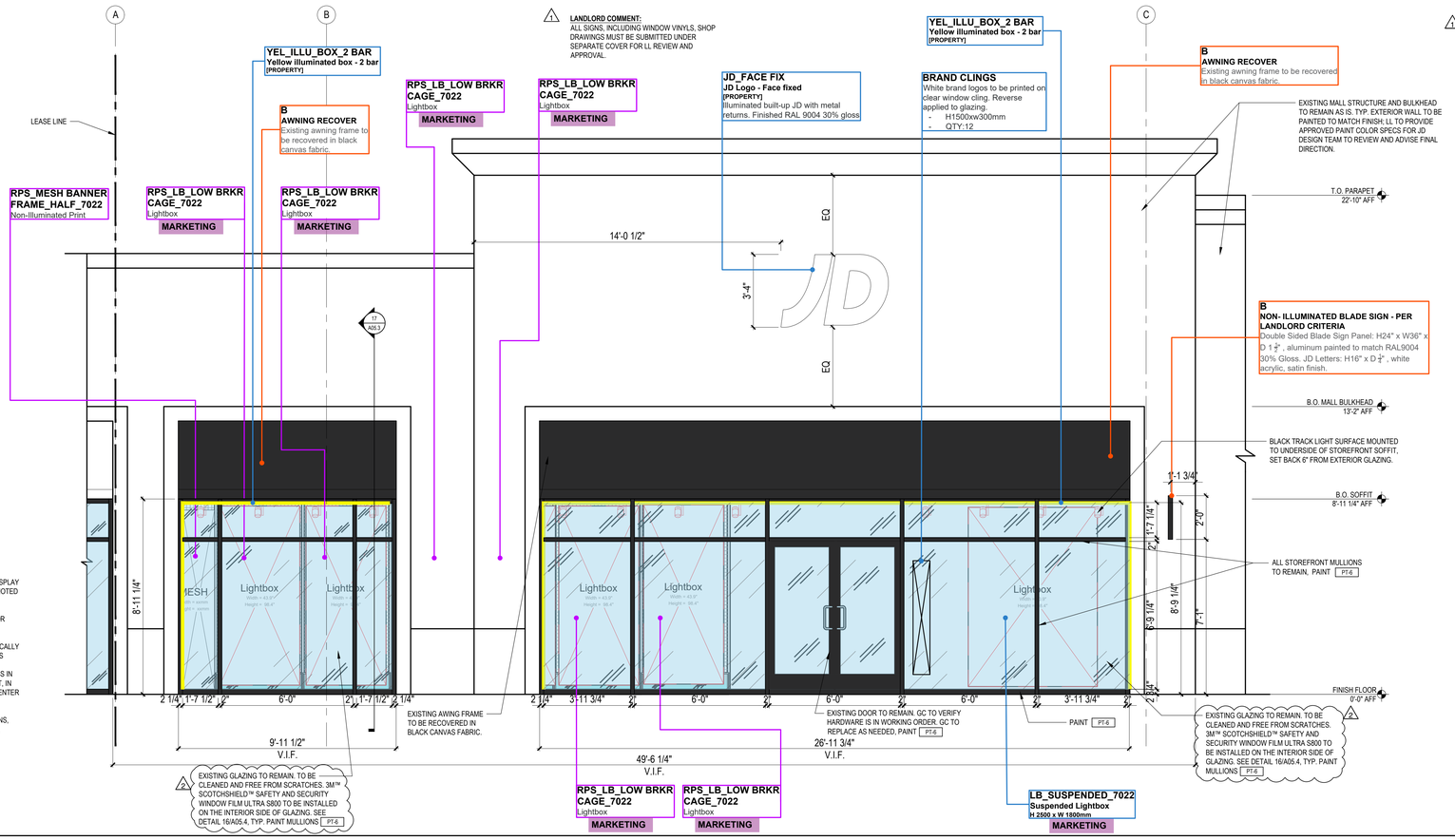
STOREFRONT AIR CURTAINS MUST BE FULLY CONCEALED WITHIN THE STOREFRONT BULKHEAD/SOFFIT AND GRILLES FLUSH MOUNTED WITH ACCESS PANEL.

APPROVAL OF THE TENANT'S CONSTRUCTION/DESIGN DOCUMENTS BY THE LANDLORD SHALL NOT CONSTITUTE REVIEW AND APPROVAL OF THE TENANT'S SIGNAGE. SIGNAGE SHOP DRAWINGS FOR FAÇADE AND BLADE SIGNS MUST BE SUBMITTED UNDER SEPARATE SUBMITTAL FOR LANDLORD REVIEW AND APPROVAL PRIOR TO FABRICATION AND INSTALLATION OF THE SIGN(S). SEND STOREFRONT SIGN SHOP DRAWINGS FOR REVIEW AND APPROVAL TO: **POSIGNS@SIMON.COM**

LED SIGNAGE:

NOTWITHSTANDING ANYTHING CONTAINED IN THE LEASE TO THE CONTRARY, TENANT MAY INSTALL LED DISPLAY SCREEN(S) WITHIN THE PREMISES PER LANDLORD'S APPROVAL WITHIN THE "DESIGN CONTROL ZONE" AS NOTED PER THIS DRAWING REVIEW.

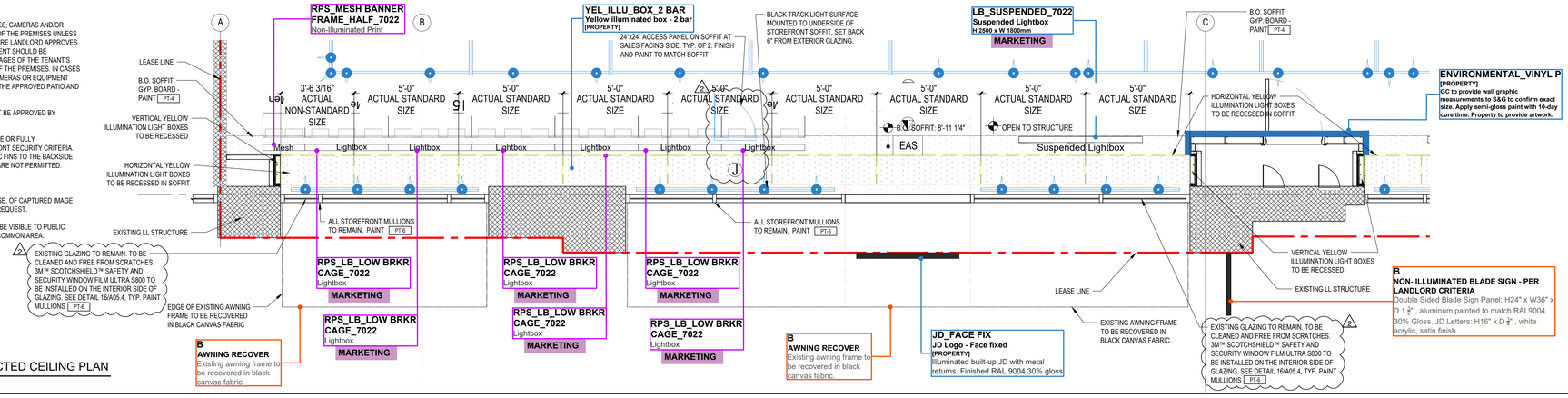
- LED SCREEN(S) SHALL NOT BE INTERACTIVE AND CONTAIN NO AUDIBLE FEATURES, CONTAINING NO EXCESSIVELY BRIGHT OR FLASHING LIGHTS AND / OR CONTENT AND SHALL MEET ALL STANDARDS FOR PUBLIC DISPLAYS
- LED SCREEN(S) SHALL BE INSTALLED PER MANUFACTURER AND UL REQUIREMENTS AND BE COSMETICALLY AND COHESIVELY INCORPORATED INTO THE OVERALL DESIGN AND CONSTRUCTION OF THE PREMISES
- ALL CONTENT SHOWN ON SUCH LED SCREEN(S) IS RELATED TO THE CONDUCT OF TENANT'S BUSINESS IN THE PREMISES, DOES NOT ADVERTISE ANY PRODUCTS OR SERVICES OTHER THAN THOSE OF TENANT, IN KEEPING WITH THE GENERAL CHARACTER AND QUALITY STANDARDS OF A FIRST CLASS SHOPPING CENTER AND SHALL BE "G" RATED
- TENANT SHALL NOT USE SUCH SCREENS TO BROADCAST ANY COMMERCIAL TELEVISION PRODUCTIONS, SPORTS EVENTS, CINEMATIC THEATRE PRODUCTIONS OR OTHER MOTION PICTURE PRESENTATIONS, UNLESS APPROVED BY LANDLORD, NOT TO BE UNREASONABLY WITHHELD
- IF AT ANY TIME THE LED SCREEN(S) ARE NOT OPERATIONAL, AND / OR, IF TENANT DISCONTINUES UTILIZATION OF SCREEN(S), TENANT SHALL PROMPTLY REPAIR OR REMOVED WITHIN 72 HOURS.



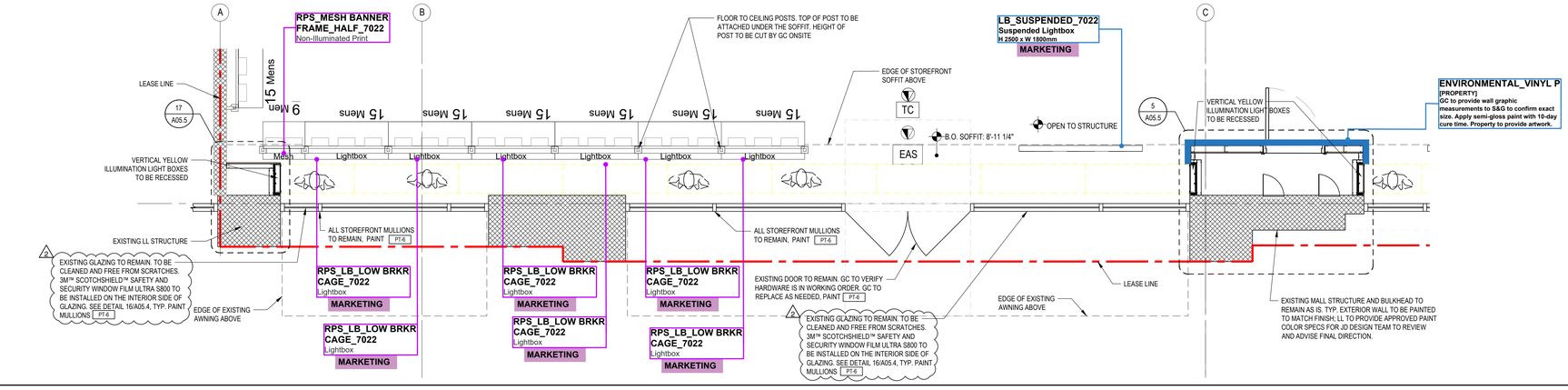
19 STOREFRONT ELEVATION
SCALE: 3/8" = 1'-0"

Security Camera/Storefront EAS Comments:

- SECURITY EQUIPMENT MUST BE INSTALLED WITHIN THE PREMISES; CAMERAS AND/OR SECURITY EQUIPMENT ARE NOT PERMITTED ON THE EXTERIOR OF THE PREMISES UNLESS APPROVED IN WRITING BY LANDLORD. HOWEVER, IN CASES WHERE LANDLORD APPROVES EXTERIOR CAMERAS OR EQUIPMENT, THE CAMERAS OR EQUIPMENT SHOULD BE POSITIONED AS TO LIMIT VIEWING AREA AND SHALL CAPTURE IMAGES OF THE TENANT'S DOORWAYS ONLY AND SHALL NOT CAPTURE IMAGES OUTSIDE OF THE PREMISES. IN CASES WHERE A TENANT MAY HAVE AN APPROVED PATIO AREA, ALL CAMERAS OR EQUIPMENT SHALL BE INSTALLED AND OPERATED SO AS TO CAPTURE ONLY THE APPROVED PATIO AND NO COMMON AREA.
- ALL EQUIPMENT, INSTALLATION METHODS AND LOCATIONS MUST BE APPROVED BY LANDLORD IN WRITING PRIOR TO INSTALLATION.
- THE STOREFRONT EAS SECURITY SYSTEM MUST BE LOW PROFILE OR FULLY CONCEALED/DISCREET AND CONFORM TO THE SIMON STOREFRONT SECURITY CRITERIA. USE OF HEAVY DUTY DOUBLE SIDED TAPE TO AFFIX THE ACRYLIC FINS TO THE BACKSIDE OF THE MULLIONS IS PREFERRED. FREE STANDING PEDESTALS ARE NOT PERMITTED.
- NO SIGNAL SHALL BE EMITTED OUTSIDE THE PREMISES.
- ABSOLUTELY NO DISTRIBUTION, ELECTRONICALLY OR OTHERWISE, OF CAPTURED IMAGE OR VIDEO TO ANY THIRD PARTY OTHER THAN LANDLORD UPON REQUEST.
- SECURITY CAMERAS, VISION PANELS, OR "BUBBLES" SHALL NOT BE VISIBLE TO PUBLIC VIEW IN THE DESIGN CONTROL ZONE OR ON PATIOS FROM THE COMMON AREA.



18 ENLARGED STOREFRONT REFLECTED CEILING PLAN
SCALE: 3/8" = 1'-0"



17 ENLARGED STOREFRONT PLAN
SCALE: 3/8" = 1'-0"

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PORTFOLIO REFERENCE ONLY

Client:
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SHOPFRONT

Sheet #:
A05.1

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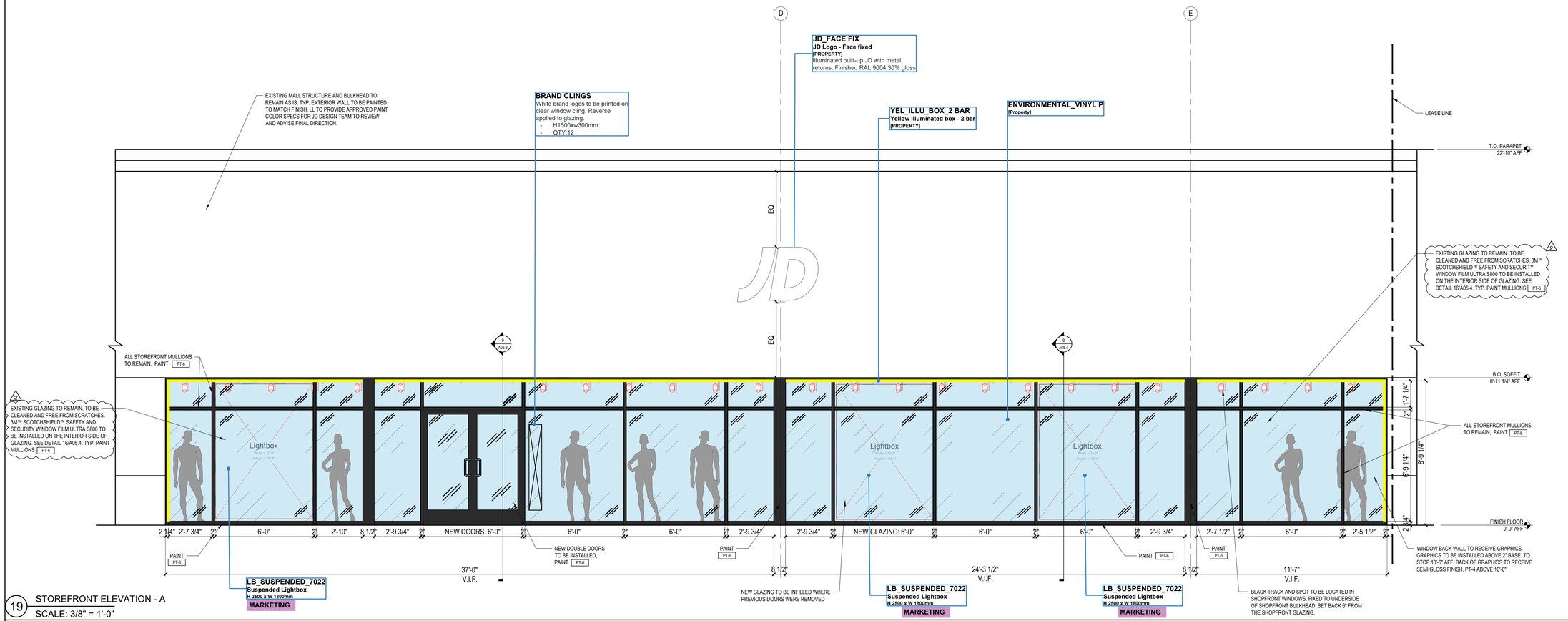
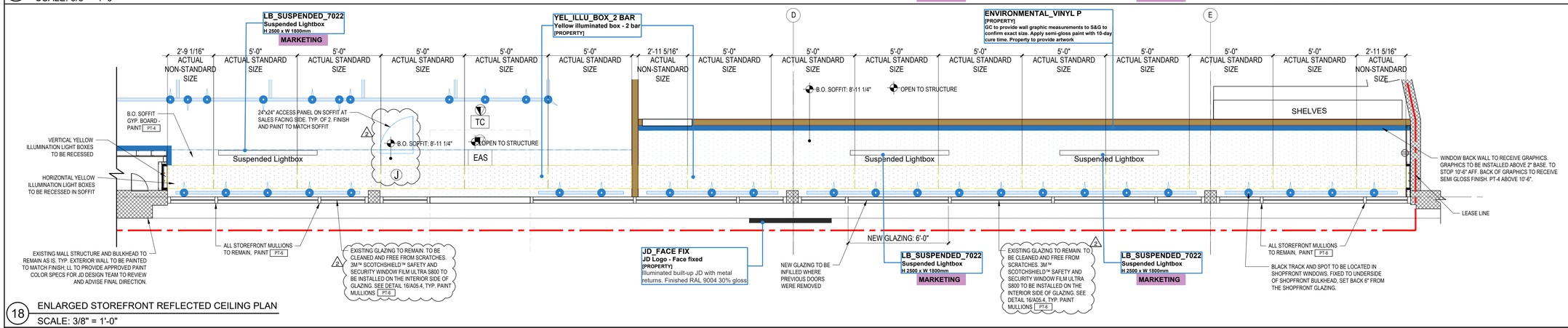
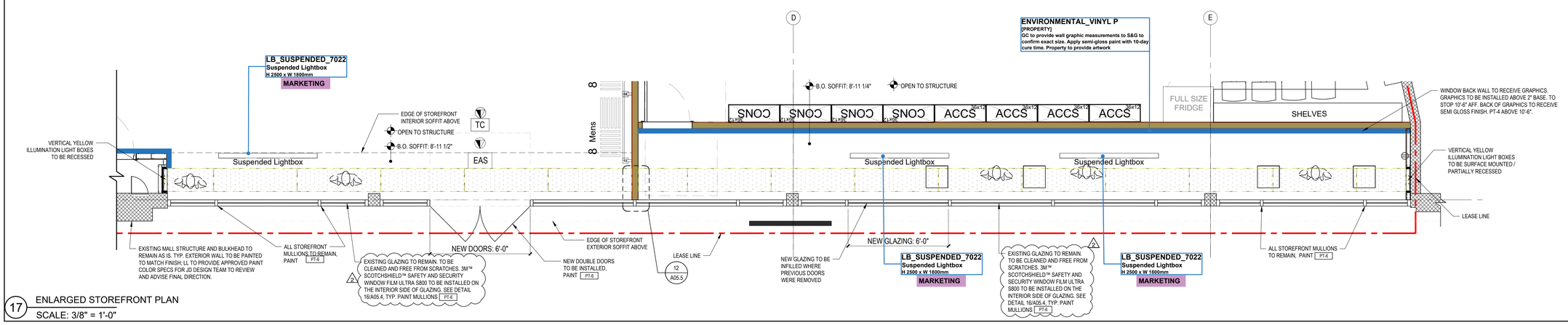


19 STOREFRONT ELEVATION - A
SCALE: 3/8" = 1'-0"



18 ENLARGED STOREFRONT REFLECTED CEILING PLAN
SCALE: 3/8" = 1'-0"



17 ENLARGED STOREFRONT PLAN
SCALE: 3/8" = 1'-0"

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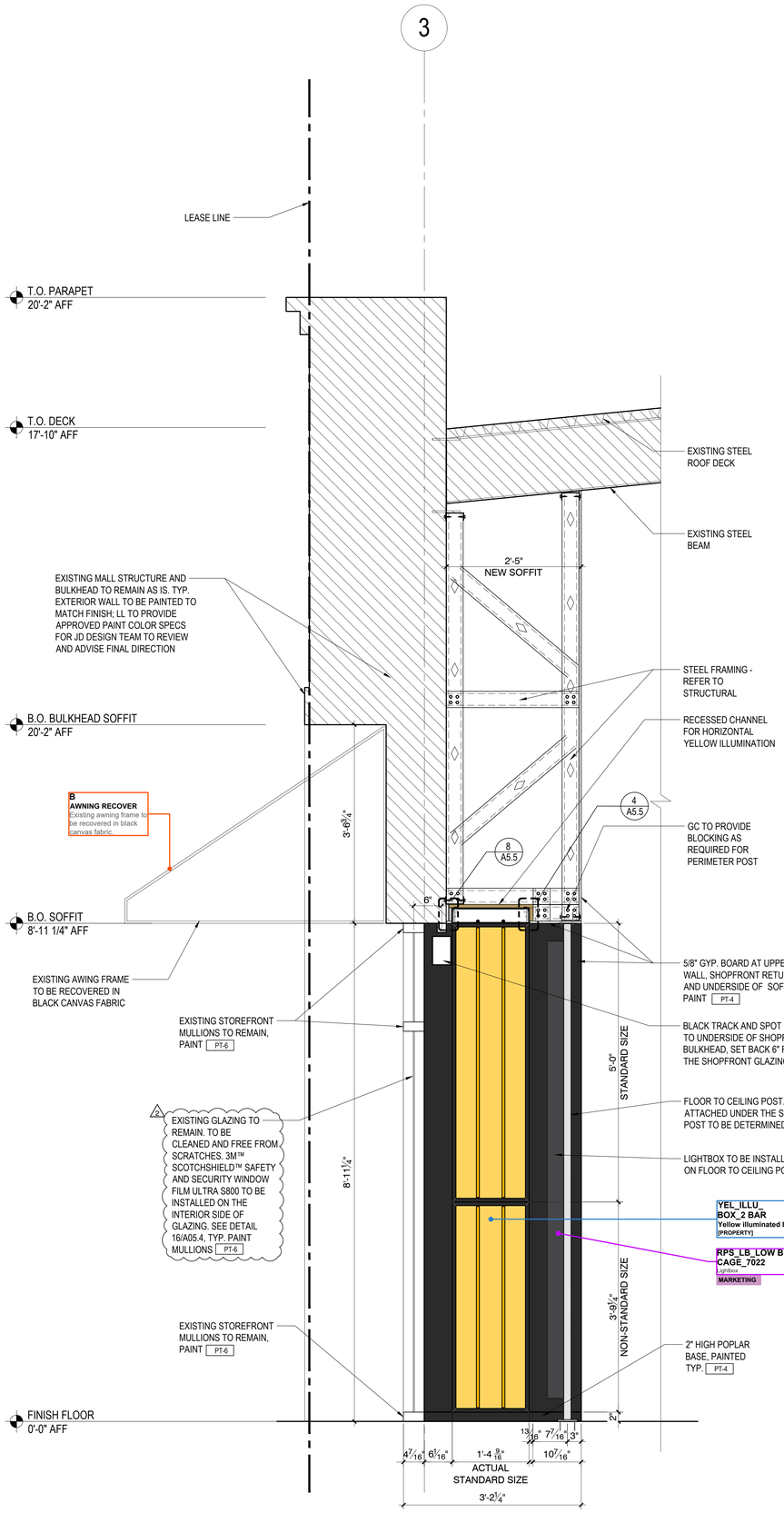
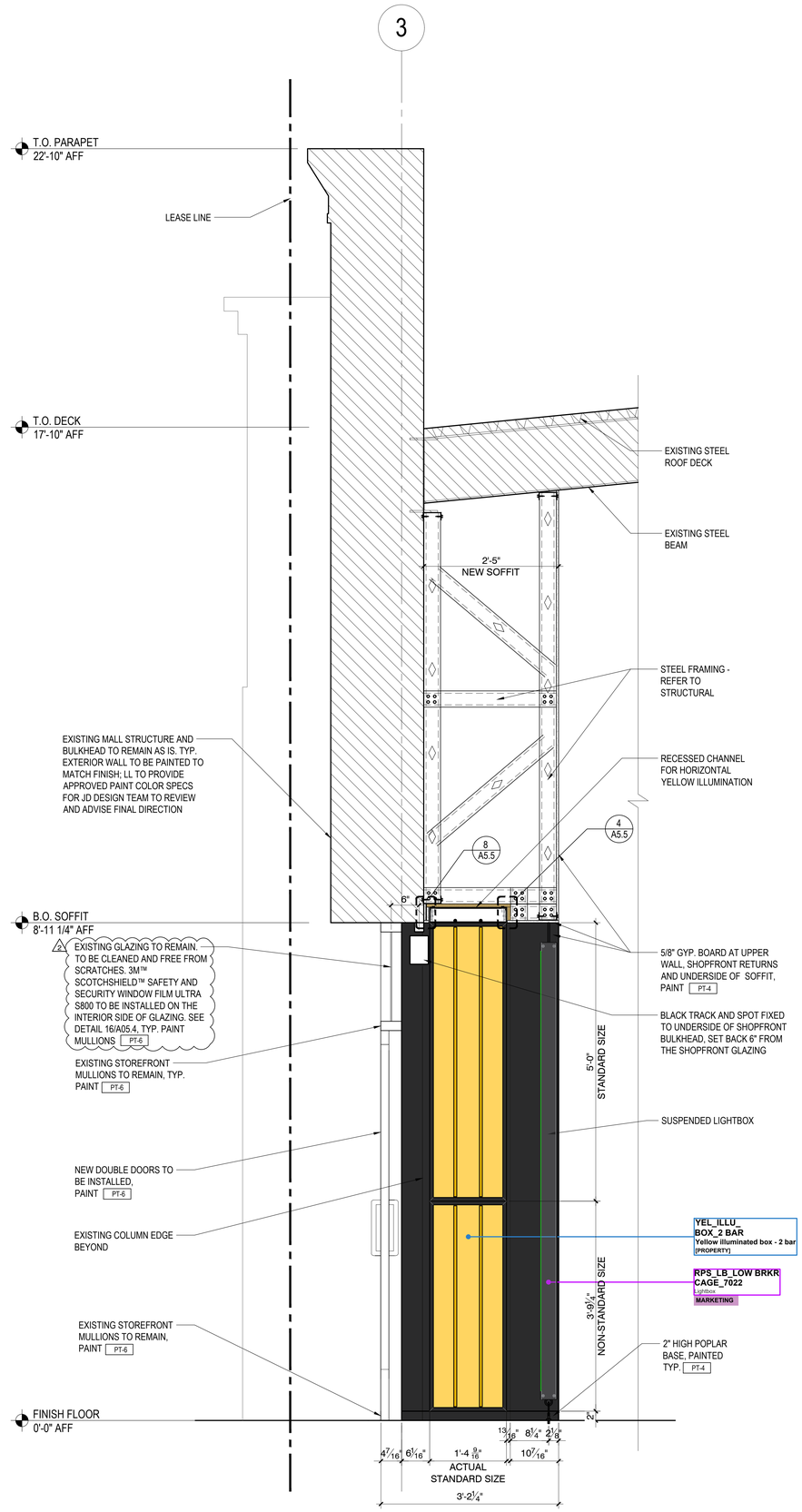


17 ENLARGED STOREFRONT SECTION
SCALE: 1" = 1'-0"



9 ENLARGED STOREFRONT SECTION
SCALE: 1" = 1'-0"

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SHOPFRONT SECTIONS

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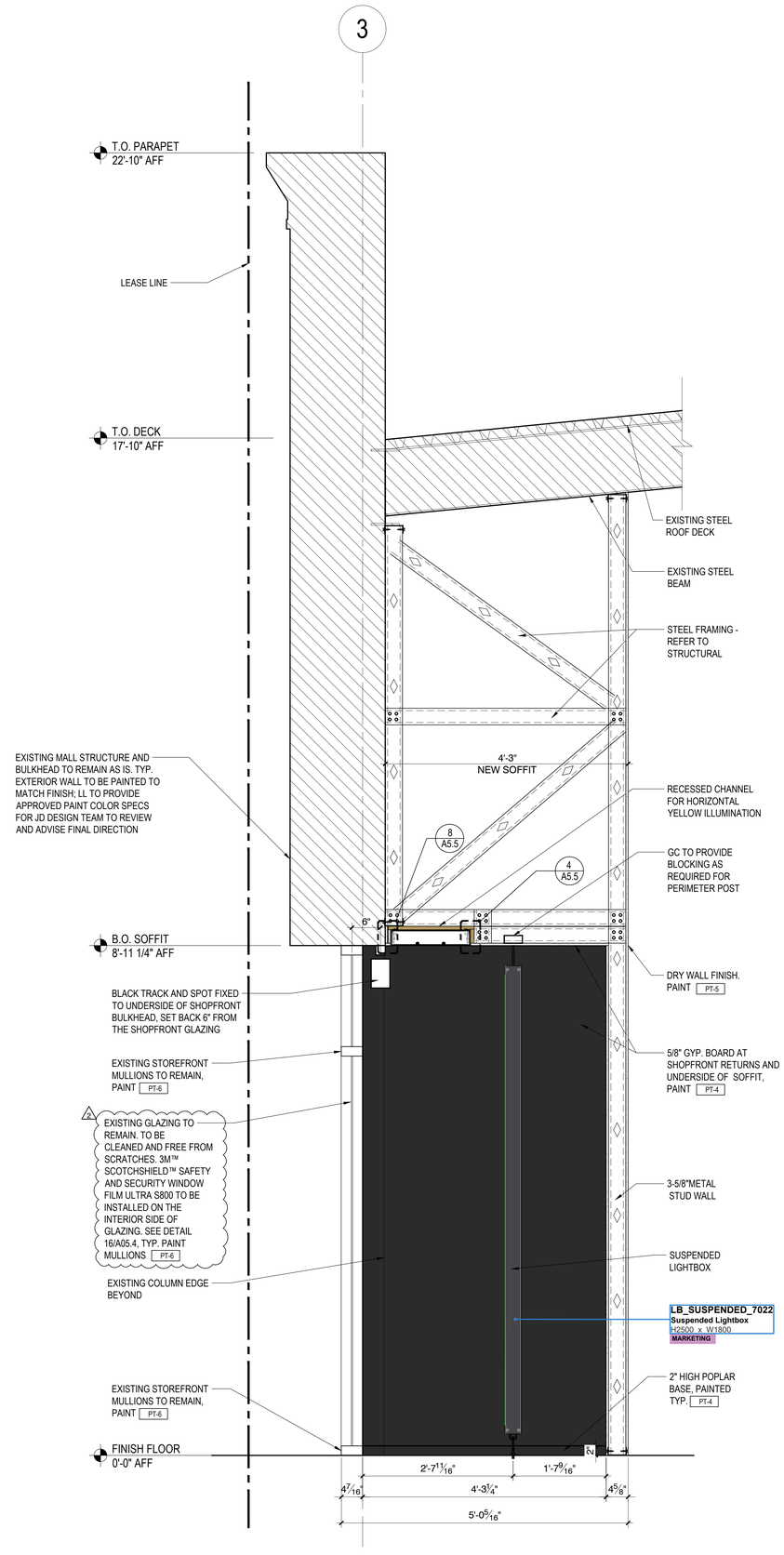

9 ENLARGED STOREFRONT SECTION
SCALE: 1" = 1'-0"

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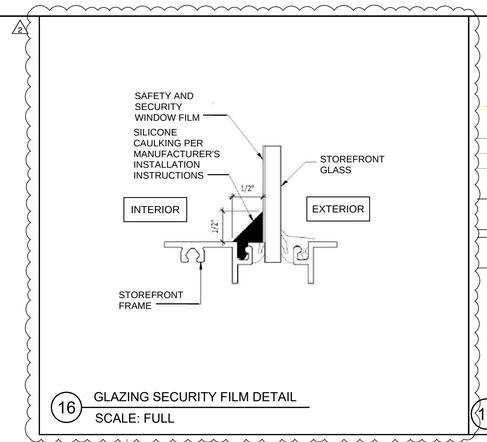
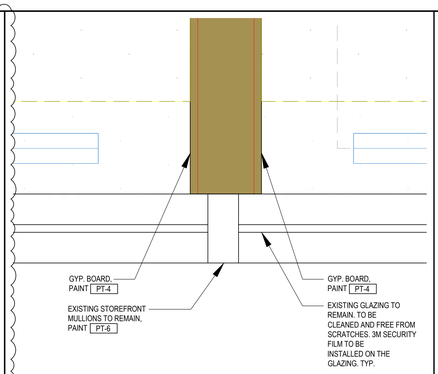
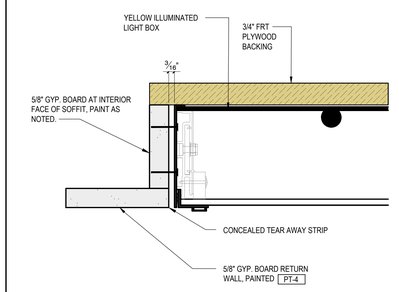


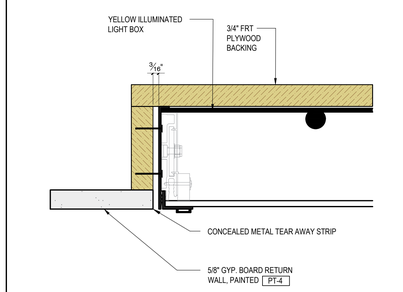
16 GLAZING SECURITY FILM DETAIL
SCALE: FULL



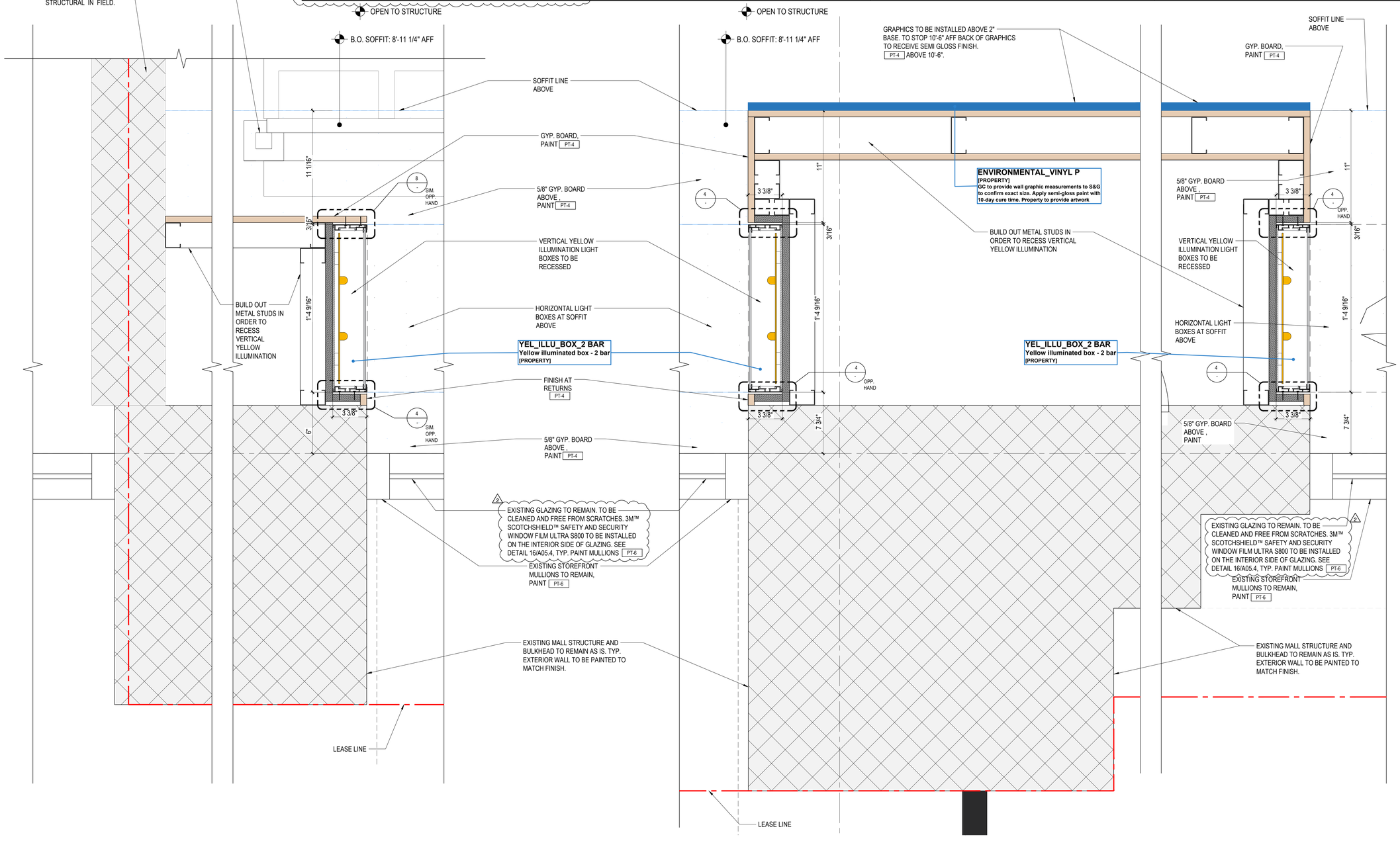
12 ENLARGED STOREFRONT DETAIL - GYP. BD. @ MULLION
SCALE: 3" = 1'-0"



8 ENLARGED STOREFRONT SPACER DETAIL - GYP. BD.
SCALE: 6" = 1'-0"



4 ENLARGED STOREFRONT SPACER DETAIL - GYP. BD.
SCALE: 6" = 1'-0"



17 ENLARGED STOREFRONT DETAIL
SCALE: 3" = 1'-0"

5 ENLARGED STOREFRONT DETAIL
SCALE: 3" = 1'-0"

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SHOPFRONT DETAILS

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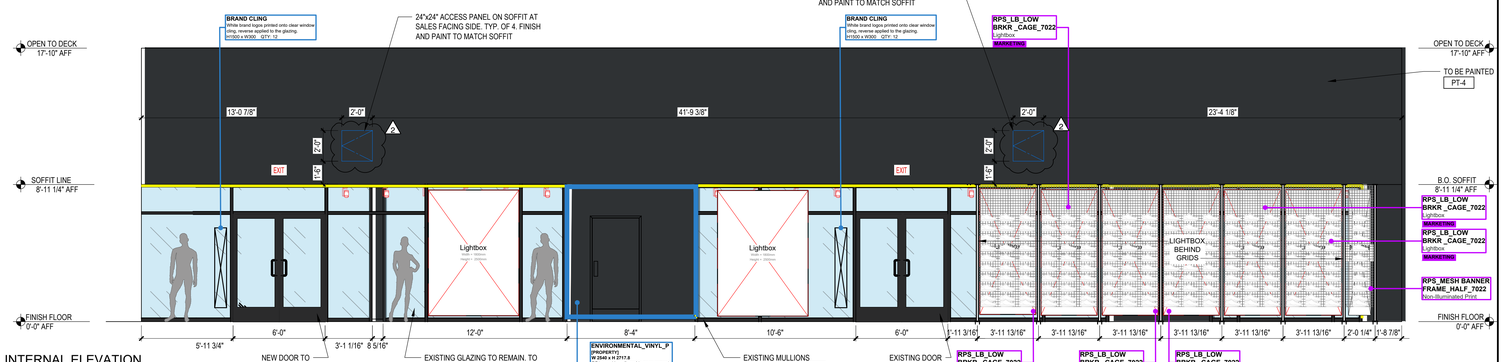
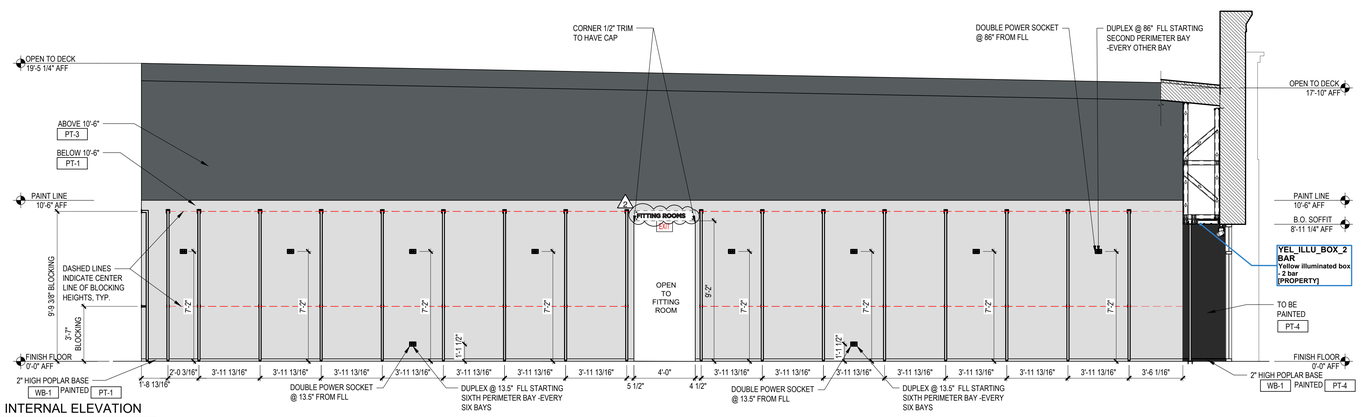
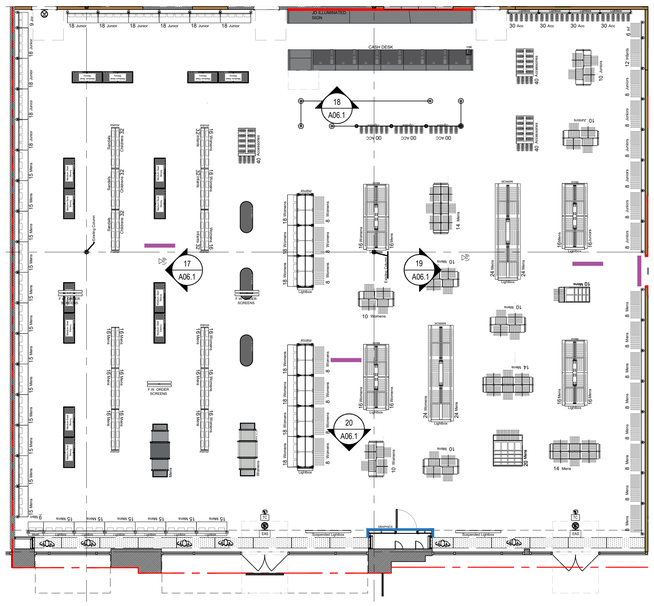


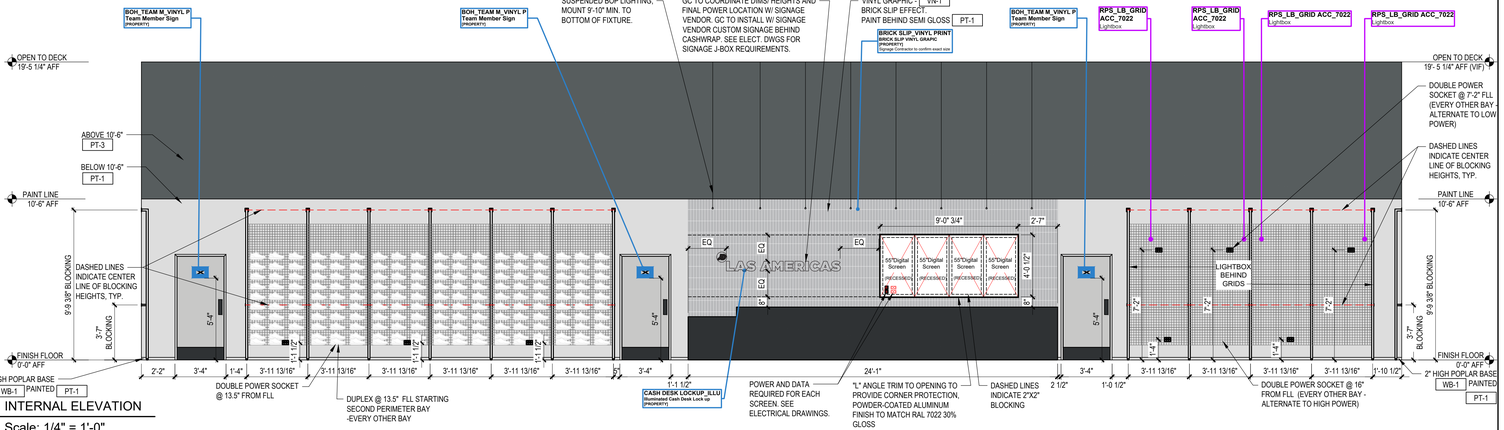
20 INTERNAL ELEVATION
Scale: 1/4" = 1'-0"



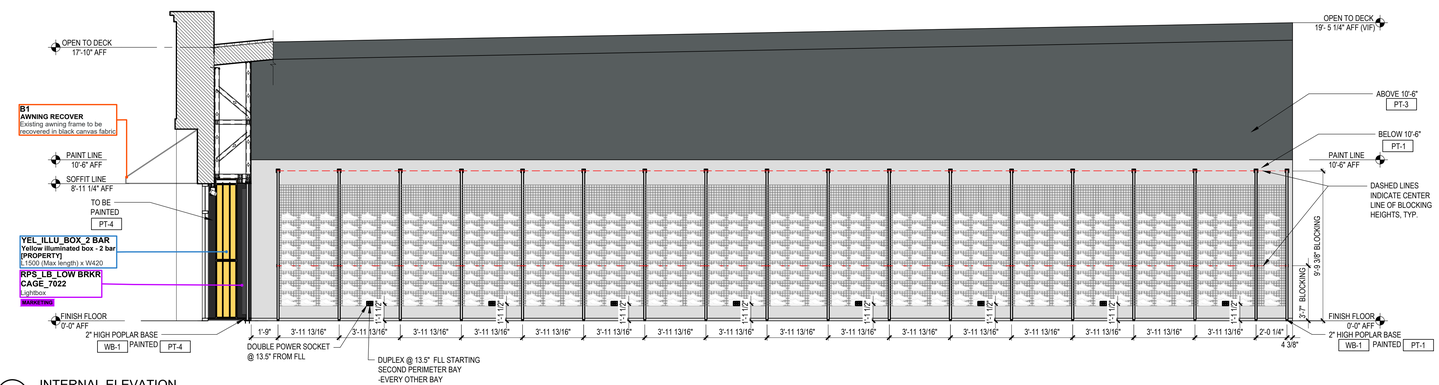
19 INTERNAL ELEVATION
Scale: 1/4" = 1'-0"



7 KEY PLAN
Scale: 1/8" = 1'-0"



18 INTERNAL ELEVATION
Scale: 1/4" = 1'-0"



17 INTERNAL ELEVATION
Scale: 1/4" = 1'-0"

1. TRACK LIGHT HEADS SHOWN IN ELEVATION IS ONLY FOR REFERENCE. REFER TO SHEET A04.1 FOR DETAILS.
2. REFER TO SHEET A04.1 FOR POSITIONING OF POWER AND DATA.
3. REFER TO SHEET A04.1 FOR PERIMETER POST SCHEDULE
4. ADD SEMIGLOSS PAINT BEHIND GRAPHICS AND CURE FOR (10) DAYS PRIOR TO INSTALLATION.

2 GENERAL NOTES
SCALE: 1/4" = 1'-0"

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INTERNAL ELEVATIONS

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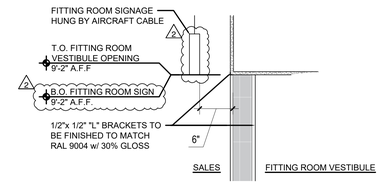
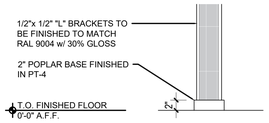
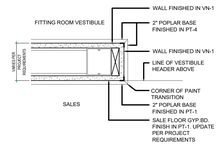


A1 FITTING ROOM VESTIBULE CEILING DETAIL
SCALE: 1" = 1'-0"



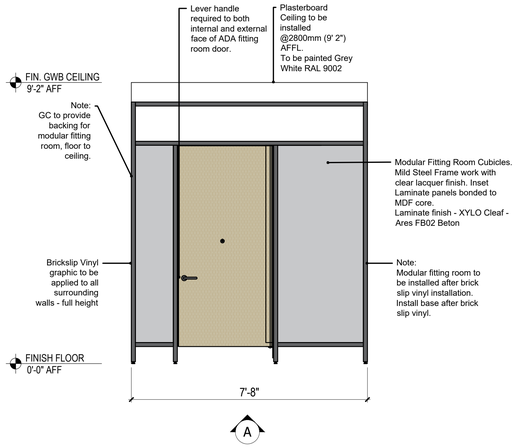
A2 F/R VESTIBULE OPENING BASE DETAIL (POPLAR)
SCALE: 1" = 1'-0"

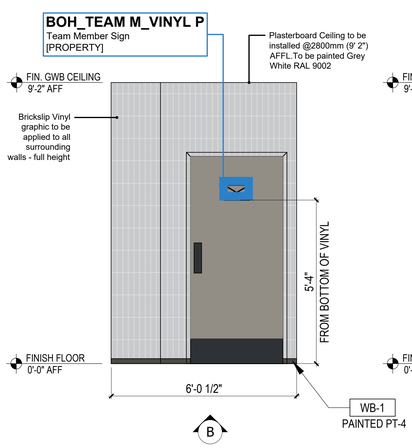


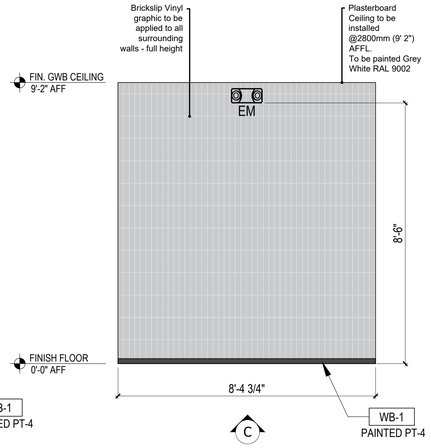
A3 FITTING ROOM VESTIBULE BASE DETAIL (WOOD)
SCALE: 3" = 1'-0"

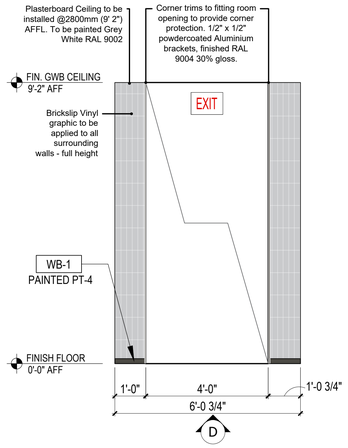
MODULAR FITTING ROOM COMPONENTS			
DESCRIPTION	TAG	QUANTITY	TRIAD ITEM CODE
A-STARTER - Front Upright	A	2	FR_A_JL_CL
B1 - FRONT FRAME AND BRACE (Standard (10 1/4" Panel))	B1	2	FR_B1_JL_CL
B2-FRONT FRAME AND BRACE (Large 1'-6 1/8" Panel)	B2	0	N/A
C-SIDE PANEL	C	1	FR_C_JL_CL
D-DDA INFILL FRAME (One size 3'-7 3/8" to be cut & scribed onsite).	D	1	FR_D_JL_CL
E-DOOR (Door swing can be LHS or RHS)	E	1	FR_E_JL_CL
E2-DOOR - ADA (Door swing can be LHS or RHS)	E2	1	FR_E2_JL_CL
F-DOOR DRILLING TEMPLATE FRONT & REAR	F	0	FR_F_JL_CL
G-FITTING ROOM HANGING RAIL	G	2	FR_G_JL_CL
H-MIRROR	H	2	FR_H_JL_CL
I-FITTING ROOM BENCH (Standard Size)	I	1	FR_I_JL_CL
Jca-CALIFORNIA CUSTOM BENCH TBD	JCA	1	N/A
K-RETURNS RAIL (LH)	K	0	FR_K_JL_CL
L-RETURNS RAIL (RH)	L	0	FR_L_JL_CL

C MODULAR FITTING ROOM COMPONENTS
SCALE: NTS





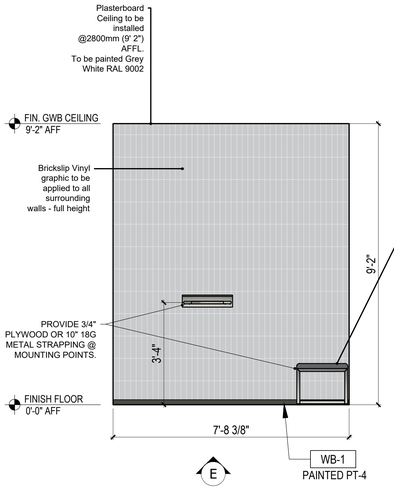


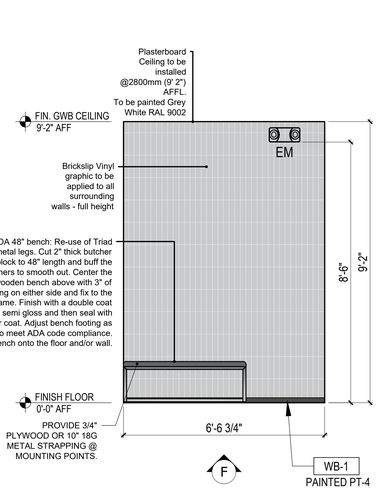


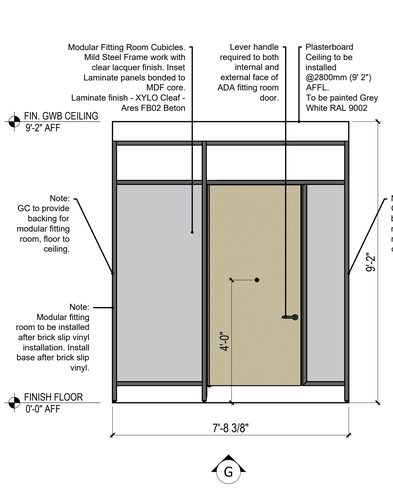
1 FITTING ROOM VESTIBULE ELEVATIONS A, B, C, D
SCALE: 1/2" = 1'-0"

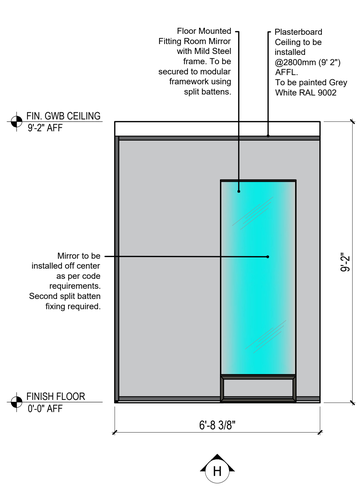
1. GC TO PAINT WALLS RECEIVING BRICK SLIP VINYL VN-1 SEMI GLOSS PAINT AND LET CURE FOR 10 DAYS.
2. APPLY BRICK SLIP VINYL AFTER CURING WALLS.
3. INSTALL MODULAR FITTING ROOM PANELS, DOORS, AND ACCESSORIES.
4. INSTALL POPLAR BASE AFTER INSTALLATION OF FITTING ROOM PANELS.
5. GC TO PROVIDE 3/4" PLYWOOD OR 10" 18G METAL STRAPPING AT MOUNTING POINTS.

- GENERAL NOTES
SCALE: N/A

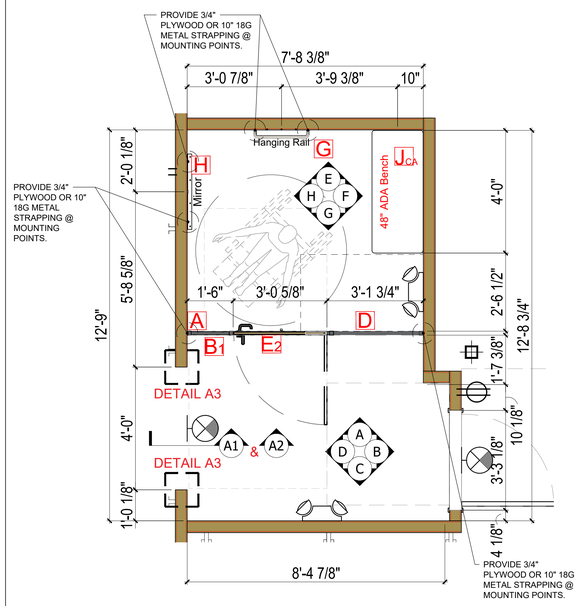








2 ACCESSIBLE FITTING ROOM ELEVATIONS E, F, G, H
SCALE: 1/2" = 1'-0"



4 FITTING ROOM KEY PLAN
SCALE: 1/2" = 1'-0"

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A Project for:

JD SPORTS #1425
LAS AMERICAS PREMIUM OUTLETS

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SAN DIEGO, CA 92173

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PORTFOLIO REFERENCE ONLY

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JD SPORTS

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INDIANAPOLIS, IN 46235

FITTING ROOM ELEVATIONS

Sheet #:
A06.2

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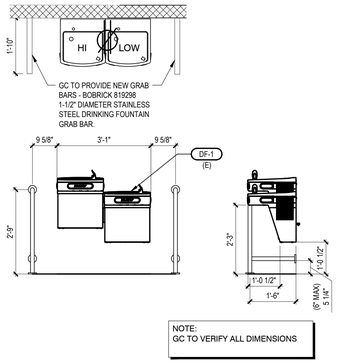


NOTE:
GC TO VERIFY ALL DIMENSIONS

20 DRINKING FOUNTAIN DETAIL
SCALE: 1/2" = 1'-0"

1. G.C. TO VERIFY ALL FIXTURES TO BE ADA COMPLIANT. CORRECT AS NECESSARY.
2. UNDER SINK PIPING WILL REQUIRE INSULATION

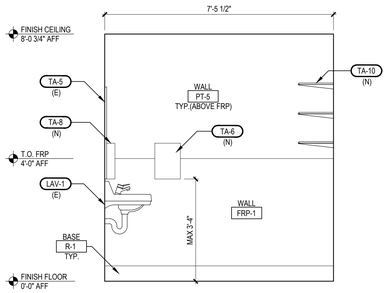
16 GENERAL NOTES
SCALE: 1/2" = 1'-0"

MARK	QTY.	DESCRIPTION	SUPPLIED BY	INSTALLED BY	REMARK
WC-1	1	WATER CLOSET - REFER TO PLUMBING DRAWINGS (EXISTING)	(E)	G.C.	2,4
LAV-1	1	WALL MOUNTED LAVATORY - REFER TO PLUMBING DRAWINGS (EXISTING)	(E)	G.C.	2,3,4
TA-2	1	36" H.C. GRAB BAR (EXISTING)	(E)	G.C.	1,4
TA-3	1	42" H.C GRAB BAR (EXISTING)	(E)	G.C.	1,4
TA-4	1	TOILET TISSUE HOLDER; SURFACE MOUNTED (NEW)	(N)	G.C.	4
TA-5	1	MIRROR; SURFACE MOUNTED (NEW)	(N)	G.C.	4,5
TA-6	1	PAPER TOWEL DISPENSER (NEW)	(N)	G.C.	4,5
TA-7	1	SANITARY NAPKIN DISPOSAL; BOBRICK B-270 (NEW)	G.C.	G.C.	4
TA-8	1	SOAP DISPENSER; GOJO ADX-7 MANUAL SOAP DISPENSER (NEW)	G.C.	G.C.	4,5
TA-9	1	TOILET SEAT COVER DISPENSER; BOBRICK B-221 (NEW)	G.C.	G.C.	4,5
TA-10	1	PLASTIC LAMINATE WALL MOUNTED SHELVING (NEW)	(N)	G.C.	- - -
DF-1	1	HI / LOW DRINKING FOUNTAIN (EXISTING) WITH GUARD RAILS (NEW)	(E)	- - -	- - -

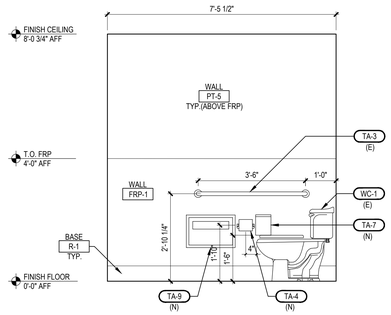
REMARKS

1. 1-1/2" STAINLESS STEEL GRAB BAR WITH 1-1/2" CLEARANCE BETWEEN GRAB BAR AND WALL SURFACE. PROVIDE BLOCKING AS REQUIRED FOR A SECURE MOUNTING.
2. REFER TO PLUMBING DRAWINGS
3. PROVIDE TRAP WRAP FOR DRAIN PIPES AND INSULATE THE HOT AND COLD WATER LINES
4. REFER TO 17/- FOR MOUNTING LOCATIONS AND HEIGHTS AND DOOR / DOOR JAMB SIGNS.
5. RELOCATE EXISTING FIXTURE IN EXISTING RESTROOM SO THAT OPERABLE PARTS ARE NO MORE THAN 40" MAXIMUM AFF.

12 FIXTURE AND ACCESSORY SCHEDULE
SCALE: 1/2" = 1'-0"



4 RESTROOM ELEVATION
SCALE: 1/2" = 1'-0"



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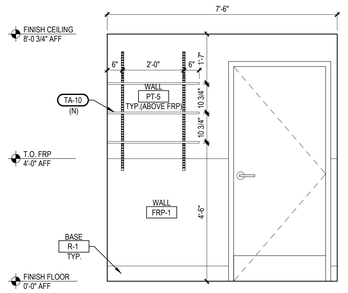

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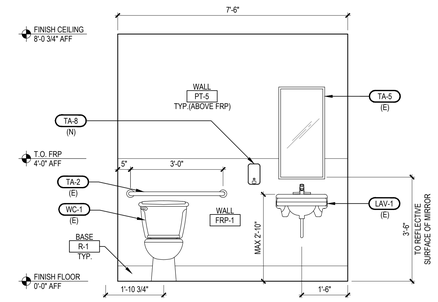

1 RESTROOM ELEVATION
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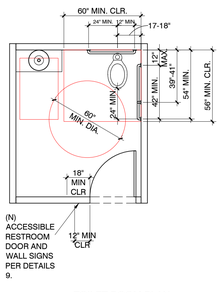
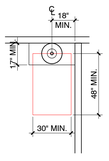
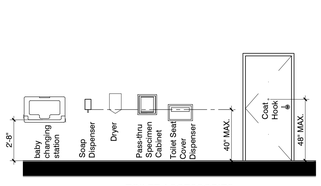


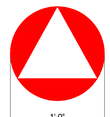
TOILET ROOM PLAN



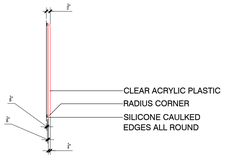
LAVATORY



TOILET ACCESSORIES



UNISEX GEOMETRIC SYMBOL
(PER CBC 11B-703.7.2.6 AND 11B-703.7.2.6.3)

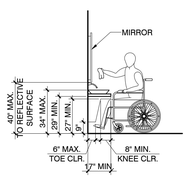


SYMBOL DESCRIPTION

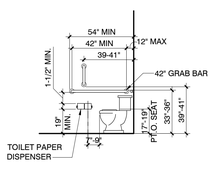
GEOMETRIC SYMBOLS AT ENTRANCES TO TOILET FACILITIES SHALL BE MOUNTED AT 58 INCHES MINIMUM AND 60 INCHES MAXIMUM ABOVE THE FINISHED FLOOR OR GROUND SURFACE MEASURED FROM THE CENTERLINE OF THE SYMBOL. WHERE A DOOR IS PROVIDED, THE SYMBOL SHALL BE MOUNTED WITHIN ONE-INCH (1") OF THE VERTICAL CENTERLINE OF THE DOOR. A CIRCLE, 1/4-INCH (1/4") THICK AND 12-INCHES (12") IN DIAMETER WITH A 1/4-INCH (1/4") THICK TRIANGLE WITH A VERTEX POINTING UPWARD, SUPERIMPOSED ON AND GEOMETRICALLY INSCRIBED WITHIN THE CIRCLE AND WITHIN THE 12-INCH (12") DIAMETER, SHALL BE PROVIDED AT ENTRANCES TO TOILET FACILITIES. THE VERTICES OF THE TRIANGLE SHALL BE LOCATED 1/4-INCH(1/4") MAXIMUM FROM THE EDGE OF THE CIRCLE. THE TRIANGLE SYMBOL SHALL CONTRAST WITH THE CIRCLE SYMBOL, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND. THE CIRCLE SYMBOL SHALL CONTRAST WITH THE DOOR, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND.

NO PICTOGRAM, TEXT, OR BRAILLE IS REQUIRED ON THE SYMBOL

GENERAL NOTE FOR GRAB BAR: FOR GRAB BAR MOUNTING SEE DETAIL 17/A00.4 FOR MORE INFORMATION



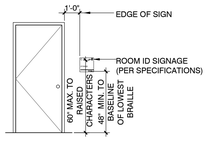
LAVATORY CLEARANCES



TOILET STALL CLEARANCES

NOTE: THESE FIGURES ARE ILLUSTRATIVE ONLY AND DO NOT DELINEATE THE ONLY MEANS OF COMPLIANCE. REFER TO PLANS FOR EXACT LAYOUT OF TOILET ROOMS.

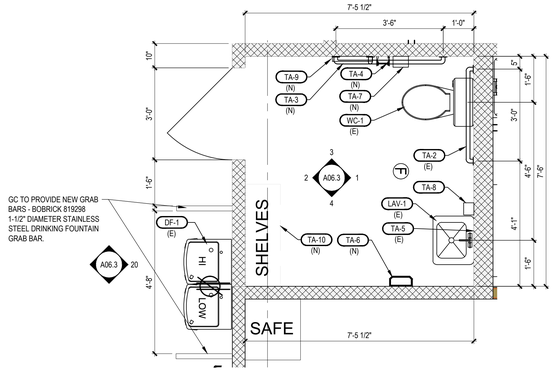
17 TOILET ROOM REQUIREMENTS
SCALE: 1/4" = 1'-0"



A MOUNTING @ DOOR & WALL

NOTES:

1. DOOR SIGN: SHALL BE CENTERED ON DOOR & MOUNTED 58" MIN. TO 60" MAX. FROM THE ABOVE THE FLOOR TO THE CENTERLINE OF THE SYMBOL (W/ADHESIVE ONLY - CAULK EDGES W/CLEAR SILICONE) @ THE CENTER OF THE SIGN.
2. ROOM SIGN: RAISED & BRAILLED CHARACTERS & PICTORIAL SYMBOL SIGNS (PICTOGRAMS). LETTERS & NUMERALS SHALL BE RAISED 1/32", UPPERCASE, SANS SERIF OR SIMPLE SERIF TYPE, & SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE 5/8" HIGH MIN, 2" HIGH MAX.
3. FINISH CONTRAST: THE CHARACTERS & BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH.
4. CHARACTERS & SIGNS: SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR.



5 ENLARGED RESTROOM PLAN
SCALE: 1/2" = 1'-0"

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RESTROOM ELEVATIONS

Sheet #:
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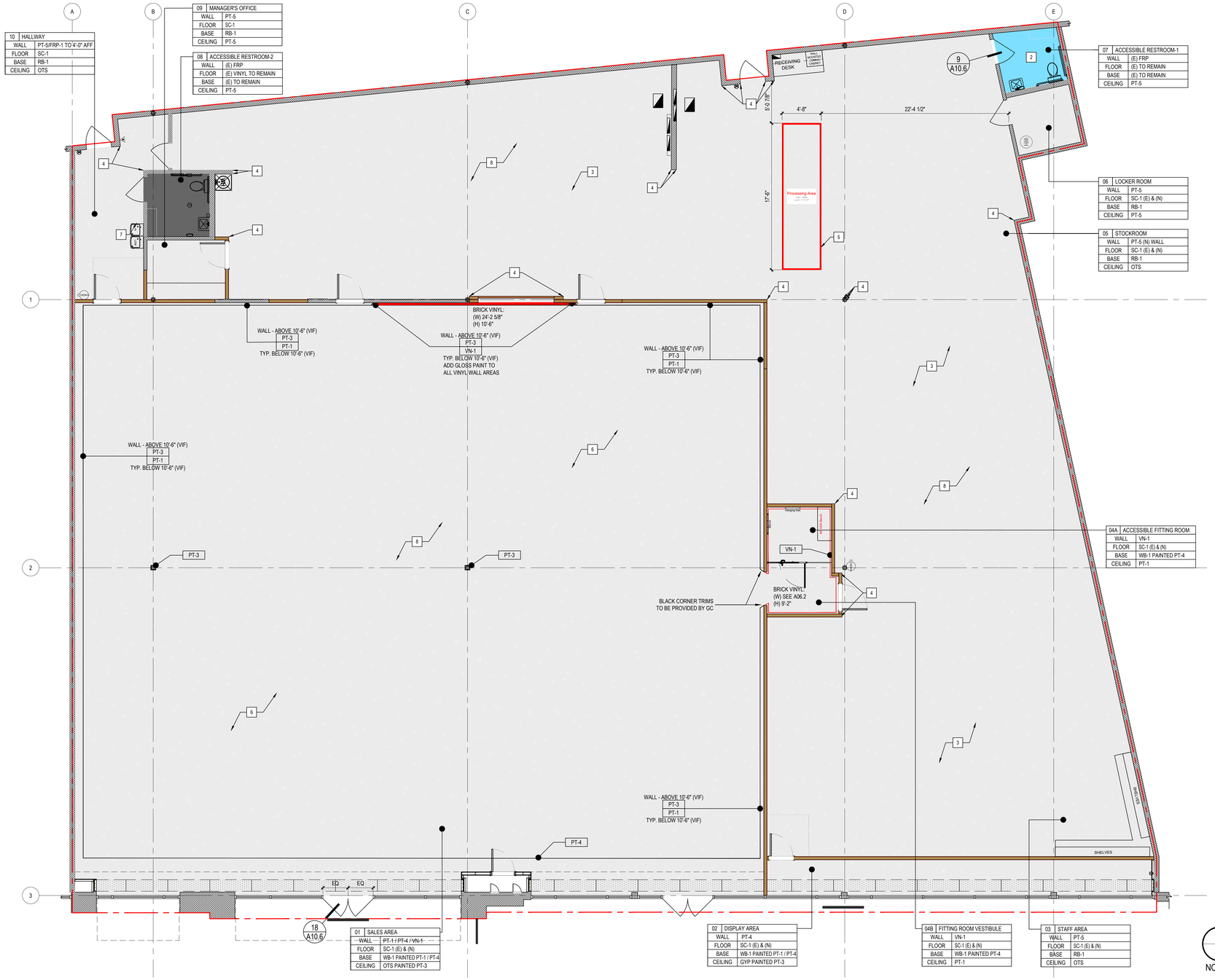

JUST LANDED FINISH SCHEDULE

WALL FINISHES

PAINT

PT - #	SAMPLE	DESCRIPTION	VENDOR	SUPPLIED	INSTALLED	LOCATION	DESCRIPTION/NOTES
PT -1		SW 7667 "ZIRCON"	SHERWIN WILLIAMS	GC	GC	SALES FLOOR PERIMETER WALLS BELOW THE PAINT LINE	RAL 7047 - EQUIVALENT WALLS - SATIN FINISH WALLS RECEIVING VINYL - SEMIGLOSS FINISH BASEBOARDS - SEMIGLOSS FINISH
PT - 3		SW 7076 "CYBER GRAY"	SHERWIN WILLIAMS	GC	GC	SALES FLOOR CEILING, DECK/COLUMNS AND ABOVE PAINTLINE"	RAL 9010 EQUIVALENT DECK - MATTE WALL - SATIN FINISH WALLS RECEIVING VINYL - SEMIGLOSS FINISH - BASEBOARD - SEMIGLOSS FINISH
PT - 4		SW 6992 "INKWELL"	SHERWIN WILLIAMS	GC	GC	BACKSIDE OF STOREFRONT/WINDOW BED/COLUMNS	RAL 7021 EQUIVALENT WALL - SATIN FINISH
PT - 5		SW 7005 "PURE WHITE"	SHERWIN WILLIAMS	GC	GC	MANAGER'S OFFICE, STAFF ROOM, RESTROOMS, PUBLIC CORRIDORS	WALL - SATIN FINISH WALLS RECEIVING VINYL - SEMIGLOSS FINISH BASEBOARD - RB-1 (TYP.) SEE DETAIL BELOW
PT - 6		SW 6991 "BLACK MAGIC"	SHERWIN WILLIAMS	GC	GC	STOREFRONT FASCIA, EXTERIOR GLAZING FRAMES & EXTERIOR DOOR FRAMES	RAL 9004 30% GLOSS EQUIVALENT EXTERIOR APPLICATIONS AND ELECTROSTATIC PAINT APPLICATION

VINYL/WALL COVERINGS

VN - 1		BRICK SLIP VINYL	VENDOR	OWNER	VENDOR	BACKWRAP WALL FITTING ROOM WALLS (PROJECT SPECIFIC)	WALLS RECEIVING VINYL SHALL BE FINISHED IN SEMIGLOSS
VN - 2		CUSTOM	VENDOR	OWNER	VENDOR	3D TO BRODIE ARTWORK REFER TO PLAN	WALLS RECEIVING VINYL SHALL BE FINISHED IN SEMIGLOSS
T-1		BRICK SLIP TILE	VENDOR	OWNER	GC	BACKWRAP WALL FITTING ROOM WALLS (PROJECT SPECIFIC)	WALLS RECEIVING TILE w/ 3/8" GROUT JOINT, COLOR TBD MAPEI #CQ 5107 CEMENT GRAY
FRP - 1		FIBERGLASS REINFORCED PLASTIC	LOCALLY SOURCED	GC	GC	RESTROOMS, MOP SINKS, DRINKING FOUNTAINS AND HALLWAY	REFER TO PLANS FOR EXACT LOCATION

FLOORING

VCT - 1		VINYL TILE - PRINTED CONCRETE AGGREGATE EFFECT	VENDOR	OWNER	GC	SALES FLOOR AND BOH ENTRY	REFER TO PLANS FOR EXACT LOCATION, ADHESIVE BY GC
CT-1		CERAMIC TILE	VENDOR	OWNER	GC	SALES FLOOR AND BOH ENTRY	APPLIES ONLY WHERE NOTED TILE SIZE 59 X 59 (1'-3"X3'-11") 3/8" THICKNESS, 8MM (3/8") GROUT: 1/1 CEMENT GRAY
SC - 1		SEALED CONCRETE	LOCALLY SOURCED	GC	GC	MANAGERS OFFICE, STAFF ROOM, STOCKROOM & PUBLIC CORRIDORS	REFER TO PLANS FOR EXACT LOCATION
VCT - 1		51861 "SOFT WARM GRAY" OR EQ	ARMSTRONG OR EQ	GC	GC	RESTROOM	
MM-1		WALK-OFF MAT	MATTER	GC	GC	ENTRY	ULTRA ENTRY 581/ BLACK WITH ARCTIC EDGE ROUND AND ROLLED OUT
T-1		BLACK PU21 COLORBODY PORCELAIN	DALTILE	GC	GC	EXTERIOR STOREFRONTS ONLY	12X24" TILE THICKNESS 5/16" BUTT JOINT

METAL

ACM - 1		ACM PANELS WITH GRID PRINT	VENDOR	OWNER	GC	STOREFRONT FINISH	REFERS TO PLANS FOR EXACT LOCATIONS
MT - 1		BRAKE METAL, FINISHED IN RAL 9005 w / 30% GLOSS	VENDOR	OWNER	GC	STOREFRONT, SHOW WINDOW AND STOREFRONT EASE	REFER TO PLANS FOR EXACT LOCATIONS

BASE

WB -1		2" POPLAR BASE	LOCALLY SOURCED	GC	GC	SALES FLOOR, FITTING ROOM AND FITTING ROOM VESTIBULE	FITTING ROOM AND VESTIBULE BASE MAY VARY PENDING ON GRADE
RB - 1		RUBBER BASE	LOCALLY SOURCED	GC	GC	STOCKROOM, STAFF ROOM, MANAGERS OFFICE, RESTROOM AND PUBLIC CORRIDOR	DARK GRAY

MISC

FM - 1		FORMICA "BLACK MATTE"	LOCALLY SOURCED	GC	GC	STAFF ROOM AND MANAGERS OFFICE TABLE TOP FINISHES	STAFF ROOM COUNTERTOP (W/ 4" BACKSPLASH)

FINISH PLAN COMMENTS:

- ALL FLOORING TRANSITIONS MUST BE SMOOTH AND FLUSH.
- TENANT IS REQUIRED TO INSTALL A WATERPROOF MEMBRANE IN ALL WET AREAS (RESTROOMS, KITCHENS, FOOD SERVICES, ETC. ,) OF THE SPACE. TENANT SHALL USE A 30 MIL POLYETHYLENE CLEAVAGE MEMBRANE (EQUAL TO NOBLESEAL TS) INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND ANSI A108. MEMBRANE MUST BE EXTENDED UP THE WALL A MINIMUM OF 6" OR EQUAL TO THE HEIGHT OF THE FLOOR BASE.
- SLAB ON GRADE: TENANT'S GENERAL CONTRACTOR SHALL ADVISE THE PROPERTY MANAGEMENT TEAM PRIOR TO ANY SLAB MODIFICATIONS OR REMOVAL. TENANT GC SHALL VERIFY THAT WORK SHALL NOT CONFLICT WITH ANY EXISTING STRUCTURAL, UTILITY, OR OTHER UNDER-SLAB CONDITION. (NONDESTRUCTIVE VERIFICATION MAYBE REQUIRED.) ANY DAMAGE OR DOWNTIME CAUSED BY TENANT'S WORK SHALL BE REPAIRED AND REIMBURSED AT TENANT'S EXPENSE. ANY SLAB SAW CUTTING OR PENETRATIONS REQUIRE THAT REPLACEMENT SLAB BE INSTALLED WITH DWELLING AND REINFORCED CONCRETE. WHERE THE SLAB IS SAW-CUT AND REMOVED FOR TRENCHING, LANDLORD REQUIRES TENANT'S CONTRACTOR TO INSTALL APPROPRIATE MOISTURE BARRIER (15 MIL. THICK "STEGO" VAPOR BARRIER) TIED INTO EXISTING BARRIER. CONFIRM WORK WITH CENTER OPERATIONS DIRECTOR BEFORE YOU BACKFILL.
- ELEVATED SLAB ON GRADE: TENANT'S GENERAL CONTRACTOR SHALL ADVISE THE PROPERTY MANAGEMENT TEAM PRIOR TO ANY SLAB MODIFICATION OR REMOVAL. IF ANY ELEVATED SLAB IS TO BE MODIFIED IN ANYWAY (DRILLED, CORED, OR PENETRATED), TENANT SHALL PROVIDE STAMPED AND CERTIFIED DRAWINGS BY A LICENSED STRUCTURAL ENGINEER CERTIFIED IN THE LOCAL JURISDICTION. ALL PENETRATIONS SHALL BE **CORE BORED ONLY**. SAW CUTTING, JACK HAMMERING, AND TRENCHING IS STRICTLY PROHIBITED. ALL PENETRATIONS SHALL BE SLEEVED, SEALED, FIRE STOPPED, AND WATERPROOFED. THE PENETRATION SLEEVE SHALL EXTEND A MINIMUM OF 4" ON EITHER SIDE OF THE SLAB AND BE LABELED WITH THE REQUIRED NFPA RATING. TENANT GC SHALL VERIFY THAT WORK SHALL NOT CONFLICT WITH ANY EXISTING STRUCTURAL, UTILITY, OR OTHER UNDER-SLAB CONDITION. (NONDESTRUCTIVE VERIFICATION MAYBE REQUIRED.) ANY DAMAGE OR DOWNTIME CAUSED BY TENANT'S WORK SHALL BE REPAIRED AND REIMBURSED AT TENANT'S EXPENSE.
- TENANT AND TENANT FLOORING CONTRACTORS ARE RESPONSIBLE TO DETERMINE COMPATIBILITY OF THEIR FLOORING PRODUCTS AND/OR ADHESIVES WITH EXISTING SLAB PRIOR TO FLOORING INSTALLATION. ANY WORK INVOLVING TESTING OR INSTALLATION OF MOISTURE BARRIER UNDER FLOORING IS TENANT'S EXPENSE. LANDLORD DOES NOT WARRANT SLAB MOISTURE CONDITIONS. LANDLORD DOES NOT INSPECT OR TEST, AND WILL NOT BE LIABLE FOR WATER VAPOR EMISSIONS THROUGH THE SLAB THAT EXCEED FLOORING MANUFACTURER'S RECOMMENDATIONS, OR ARE DUE TO EFFECTS OF SAW CUTTING.

1 FINISH LEGEND
SCALE: NTS

1. ALL SALES FLOOR FINISHES TO EXTEND TO HEIGHT REFERENCED ON ELEVATIONS. PAINT EXPOSED SURFACES ABOVE PT-3, U.O.N.
2. FOR CEILING FINISHES SEE SHEET A07.1; FOR ALL ITEMS ABOVE 10'-6", PAINT PT-3
3. CEILING PAINT NOT REQUIRED AT STOCKROOM, TYP.
4. FOR STOREFRONT FINISHES SEE SHEET A05.1 SERIES
5. ELECTRICAL AND DATA RECEPTACLE COVER PLATES TO BE: WHITE AT PT-1 WALLS THROUGHOUT THE SALES AREA AND PT-5 IN BACK OF HOUSE, PAINT BLACK AT WALLS WITH PT-4, PT-6, PAINT/ FINISH.
6. METAL SCREEDS TO BE SST UON
7. ALL FLOOR TILES TO BE SLIP RESISTANT IN ACCORDANCE WITH ALL ACCESSIBILITY CODES OR STRICTEST GOVERNING CODE
8. COORDINATE FINISH PURCHASES WITH OWNER VENDORS
9. PROVIDE LEVEL 4 FINISH AT SALES FLOOR WALLS, REFER TO SPECIFICATIONS FOR REQUIREMENTS.
10. WALLS / SUBSTRATE BEHIND THE SHOPFRONT, ELEMENTS-LIGHTBOXES, DIBOND PANELS AND CEMPANELS TO BE PAINTED PT-4.
11. EXAMINE ALL SURFACES TO BE PAINTED UNDER THIS CONTRACT AND SEE THAT THE WORK OF OTHER TRADES HAVE BEEN LEFT OR INSTALLED IN A SATISFACTORY CONDITION TO RECEIVE PAINT OR SPECIFIED FINISH.
12. PAINTER SHALL BE RESPONSIBLE FOR THE REMOVAL OF HARDWARE, SWITCH AND OUTLET COVERS, ETC, AND REINSTALLATION OF SAME AFTER PAINTING.
13. AT COMPLETION OF PAINTING, LEAVE ADDITIONAL STOCK OF PAINT IN CASE TOUCH UPS / REPAIRS ARE NEEDED, ALL PAINT SPOTS REMOVED, AND ALL AREAS THOROUGHLY CLEANED. ANY DIRT OR DEBRIS CAUSED BY WORK SHALL BE CLEANED UP AS WORK PROGRESS.
14. RETOUCH OR REFINISH SURFACES DAMAGED BY SUBSEQUENT WORK AS DIRECTED BY GENERAL CONTRACTOR. THE COST OF SUCH RESTORATION WORK SHALL BE BORNE BY THE CONTRACTOR.
15. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROPER PROTECTION AGAINST DAMAGE TO EXISTING FURNITURE, ADJACENT FINISHED WORK, FLOORING, ETC. IF APPLICABLE.
16. GC TO PROVIDE FINAL TAKE OFFS FOR FINISHES BASED ON VERIFIED FIELD CONDITIONS
17. GC TO REFER TO MFG RECOMMENDATIONS AND INSTALL INSTRUCTIONS FOR SLAB PREPARATION AND EXPANSION JOINT LOCATIONS WHERE NECESSARY.
18. ADD SEMIGLOSS BEHIND BRICK SLIP VINYL AND GRAPHICS TO LET IT CURE FOR (10) DAYS PRIOR TO INSTALL.
19. INSTALL POPLAR BASE AFTER INSTALLATION OF FITTING ROOM PANELS.

17 GENERAL NOTES
SCALE: NTS

1. NOT USED
2. NOT USED
3. GC TO VERIFY IF CONCRETE IS IN GOOD CONDITION. FLOORS MUST BE SMOOTH AND LEVEL WITH NO ELEVATION DIFFERENCES GREATER THAN 1/4" HIGH. GC TO PROVIDE LEVELER TO ANY GOUGES OR SCARS. GC TO SEAL EXISTING CONCRETE FLOOR. CREATE SMOOTH TRANSITION TO ADJACENT FLOOR FINISH.
4. LOCATION OF CORNER GUARD (GRAINGER STAINLESS STEEL SELF-ADHESIVE)
5. NEW FLOOR PAINT FOR PROCESSING AREA TO BE CLEARLY MARKED ON FLOOR WHERE DIMENSIONED. GC TO OBTAIN HARD-WEARING PAINT. 2" THICK.
6. PAINT ALL THREADS ON FRONT OF STORE AND SALES FLOOR TO MATCH THE CEILING PAINT PT-3. LEAVE CONDUITS RAW.
7. ADD FRP AT EXISTING AND NEW DRINKING FOUNTAIN.
8. EXISTING FLOORING IN BOTH EXISTING FINISH LINE AND EXPANSION SPACE TO BE PREPARED FOR SEALED CONCRETE. PM TO ASSESS IF STAINING IS REQUIRED. PATCH AND REPAIR AS NEEDED.

13 KEYNOTES
SCALE: NTS

SYMBOL	DESCRIPTION
WALL / FLOOR / BASE / CEILING	WALL FINISH, SEE FINISH SCHEDULE & INTERIOR ELEVATIONS FLOOR FINISH, SEE FINISH PLAN & SCHEDULE BASE FINISH CEILING FINISH, SEE FINISH SCHEDULE
100 ROOM	ROOM NUMBER, SEE ROOM FINISH SCHEDULE ROOM NAME

9 WALL LEGEND
SCALE: NTS

GENERAL NOTES

POWER AND DATA COVER PLATES

Socket & Data cover plates to match wall colour.

WALL COLOUR		COVER PLATE
PT-1, PT-5	Light Grey/ White	White (DO NOT PAINT)
PT-4, PT-6, VN-1	Dark Grey, Black, Brick Slip	Black

BASEBOARD

Baseboard required to sales floor and back of house unless otherwise stated. All external and internal corner junctions to be chamfered. Baseboard finish to match wall finishes throughout the sales floor unless otherwise specified.

SALES FLOOR BASE	51mm (2") Poplar painted to match wall colour
FITTING ROOM BASE	2" Poplar Base
BOH BASE	Grey Colored Vinyl Base

5 FINISH LEGEND GENERAL NOTES
SCALE: NTS

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Seal:

A Project for:

JD SPORTS #1425
LAS AMERICAS PREMIUM OUTLETS

4155 CAMINO DE LA PLAZA SPACE 0448A
SAN DIEGO, CA 92173

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PORTFOLIO REFERENCE ONLY

Client:
JD SPORTS

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INDIANAPOLIS, IN 46235

FLOORING
& FINISHES

Sheet #:
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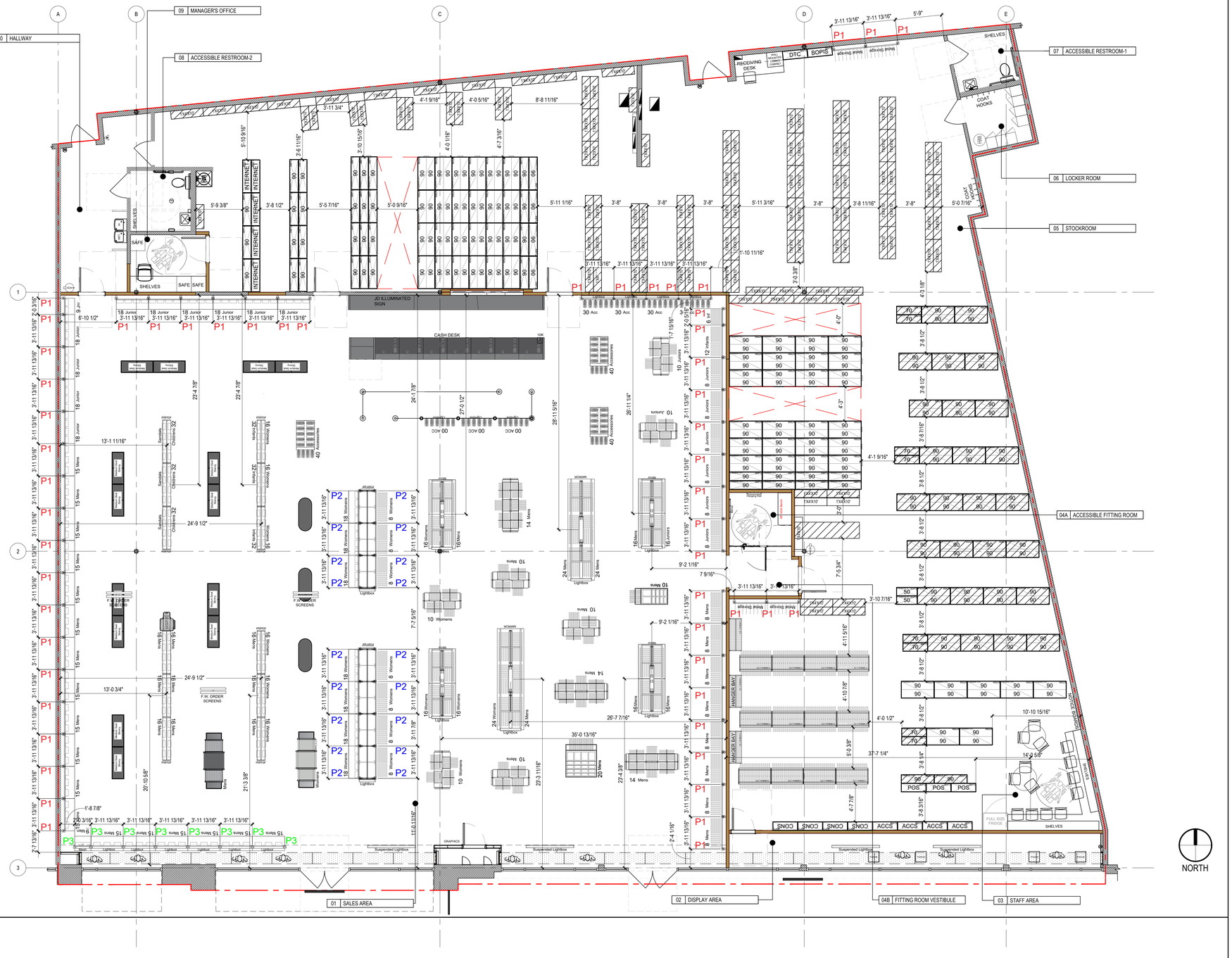

18 FIXTURES AND FITTINGS

SCALE: 3/16" = 1'-0"

DISPLAY FIXTURES, RACKS, SHELVING, AND STORAGE UNIT REQUIREMENTS:

- NON-ELECTRIFIED STOREFRONT DISPLAY TRACK LIGHTING AND HANGING GRID FIXTURE MUST NOT BE VISIBLE THROUGH STOREFRONT GLAZING FROM OUTSIDE THE STORE. THE TRACK LIGHTING MUST MOUNT TO THE BACK OF THE STOREFRONT SOFFIT OR FROM THE CEILING.
- ALL FREESTANDING STOREFRONT DISPLAY FIXTURES, MANNEQUINS, ETC. MUST BE A MINIMUM OF 18" FROM THE STOREFRONT GLASS AND MOVABLE FOR CLEANING AND MAINTENANCE PURPOSES. MANNEQUINS DISPLAYED MUST BE MOVABLE, NOT PERMANENTLY MOUNTED.
- TENANT DISPLAY FIXTURES IN THE RETAIL SPACE AND RACK / SHELVING / STORAGE UNITS IN THE STOCKROOM SHALL BE DESIGNED TO PROVIDE ADEQUATE CLEARANCE FOR THE AUTOMATIC (FIRE) SPRINKLER SYSTEM.
- TENANT MOBILE / COMPACT STORAGE SYSTEMS SHALL BE CONSTRUCTED OF WIRE MESH SHELVES. HOWEVER, IF CONSTRUCTED WITH SOLID SHELVES (WOOD OR STEEL), THE UNITS SHALL BE INSTALLED WITH A MINIMUM OF A 3" SPACER TO PROVIDE SPACE BETWEEN UNITS AT MAXIMUM 5'-0" INTERVALS.
- TENANT'S ARCHITECT AND GENERAL CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION TO THE REQUIRED SPRINKLER CONTRACTOR REGARDING STOCK / STORAGE AREA:

  -TYPE OF STORAGE SYSTEM(S).
  (INCLUDING DETAILS OF THE STORAGE SYSTEMS).

  -TYPE OF SHELVING.
  (WIRE MESH / SOLID WOOD / SOLID STEEL, ETC.)

  -TYPE OF COMMODITIES.
  (PLASTICS, AEROSOLS, CLOTHING, ETC)

  -ELEVATION OF HIGHEST SHELF / CEILING HEIGHT.
- TENANT SHALL BE SOLELY RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND USE OF ANY DISPLAY OR STORAGE SYSTEM(S) WITHIN THE PREMISE INCLUDING ALL COMPLIANCE WITH APPLICABLE BUILDING CODES, FIRE CODES AND THE REQUIREMENTS OF ANY INSURANCE RATING BUREAUS. IF ANYTHING DONE, OMITTED TO BE DONE OR SUFFERED TO BE DONE BY THE TENANT IN, ON OR ABOUT THE PREMISES IN REGARD TO SUCH DISPLAY OR STORAGE SYSTEM(S) SHALL RESULT IN A FIRE CODE VIOLATION(S) AND THE TENANT FAILS TO TAKE CORRECTIVE ACTION AND / OR PAY THE ASSOCIATED FINE, REGARDLESS OF WHETHER IMPOSED AGAINST TENANT OR LANDLORD, WITHIN THE PRESCRIBED TIME PERIOD, THEN TENANT SHALL BE LIABLE FOR ALL COSTS AND EXPENSES RESULTING FROM SUCH VIOLATION(S) AND LANDLORD SHALL HAVE THE RIGHT TO CORRECT ANY SUCH CONDITION(S) AT TENANT'S SOLE EXPENSE.

PERIMETER FIXTURES LEGEND			
CODE	QTY	DETAILS	HEIGHT
P1	54	Standard Post - Clear Lacquer	9' 10 1/8" 3000mm
P2	18	Standard Post - Light Grey RAL 7035	9' 10 1/8" 3000mm
P3	8	Floor to ceiling posts - Clear Lacquer	(site dim)
P4	0	Floor to ceiling posts - Light Grey RAL 7035	(site dim)
P5	0	Standard Post - Clear Lacquer	9' 2 1/4" 2800mm
P6	0	Standard Post - Light Grey RAL 7035	9' 2 1/4" 2800mm
EXT	0	Extension Brackets	(site dim)
NOTE:			
All post will be delivered 3000mm/9'-10 1/8" high. Alternate heights to be cut down by the General Contractor.			
ALL DIMS TO BE CHECKED ON SITE PRIOR TO MANUFACTURE For setting out and pattress requirements - For new walls, pattress 18mm/ 11/16" ply with 20mm/ 13/16" chamfer concealed within walls where possible. - When retaining existing walls pattress to be placed centrally to post wall fixing points above and below. To be securely fixed and decorated to match proposed local finish			
- Where floor to ceiling posts are over 10'-6" / 3200mm, steel to have break line at 10'-6" / 3200mm FFFL with a spigot fixing - Structural engineer to confirm pattress height for floor to ceiling posts.			

17 FIXTURE LEGEND

SCALE: NTS

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FIXTURES AND FITTINGS

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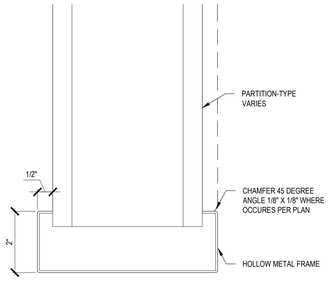


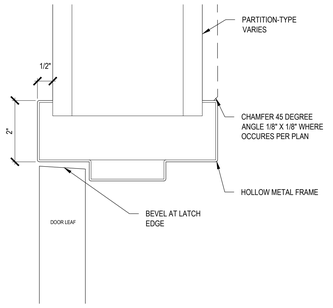
20 HOLLOW METAL FRAME CASED OPENING
SCALE: 6" = 1'-0"

DOOR #	ROOM NAME	DOOR								FRAME					REMARKS
		TYPE	HDWR. SET	WIDTH	HEIGHT	THICKNESS	MAT'L	FINISH	RATING	HEAD	JAMB	THRSLD	MAT'L	FINISH	
01A	SALES AREA	B	V.I.F.	6'-0 V.I.F.	7'-0 V.I.F.	---	---	---	---	---	---	18/A10.6	---	---	GC TO VERIFY THE HARDWARE IS IN WORKING ORDER. REPLACE AS REQUIRED.
01B	SALES AREA	B	V.I.F	6'-0 V.I.F.	7'-0 V.I.F.	---	---	---	---	---	---	18/A10.6	---	---	
01C	SALES AREA	C	5	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	PT-4	---	18/A09.1	19/A09.1	---	METAL	PT-4	DOOR TO (E) INSPECTOR TEST ACCESS PANELS
02	DISPLAY AREA	C	5	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	PT-4	---	18/A09.1	19/A09.1	---	METAL	PT-4	
04A	ACCESSIBLE FITTING ROOM	A2	SEE VENDOR DWGS	3'-1 1/4"	7'-0"	1.417"	SOLID CORE WOOD	PREFINIS HED	---	SEE VENDOR DRAWINGS	SEE VENDOR DRAWINGS	---	WOOD	PREFINISH ED	DOOR PROVIDED BY VENDOR AND INSTALLED BY GC.
04B	FITTING ROOM VESTIBULE	C	5	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	PT-1	---	18/A09.1	19/A09.1	---	METAL	PT-1	SIGN " STAFF ONLY" VESTIBULE SIDE. DOOR DOES NOT INCLUDE CLOSER.
05A	STOCK ROOM	C	5	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	PT-1	---	18/A09.1	19/A09.1	---	METAL	PT-1	SIGN " STAFF ONLY" SALES AREA SIDE.
05B	STOCK ROOM	C	5	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	PT-1	---	18/A09.1	19/A09.1	---	METAL	PT-1	SIGN " STAFF ONLY" SALES AREA SIDE.
05C	EXISTING EGRESS DOOR	(E)	(E)	3'-0"	7'-0"	1 3/4"	---	PT-5	---	---	---	---	METAL	PT-5	NEW PANIC HARDWARE AS PER GROUP 4. TACTILE "EXIT" SIGN @ 60" AFF TO CENTER OF SIGN. KEY PAD. SURFACE MOUNT DOOR CONTACT.
05D	STOCK ROOM	C	5	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	PT-5	---	18/A09.1	19/A09.1	---	METAL	PT-5	SIGN " STAFF ONLY" SALES AREA SIDE.
06	LOCKER ROOM	(E)	(E)	3'-0"	7'-0"	1 3/4"	---	PT-5	---	---	---	---	METAL	PT-5	GC TO INSPECT EXISTING DOOR HARDWARE & REFURBISH / REPLACE AS NEEDED FOR LIKE NEW WORKING ORDER. SIGNAGE FURNISHED & INSTALLED BY GC. SEE DETAIL 17/A06.3. PROVIDE NEW LOCKSET: PRIVACY LOCK WITH INDICATOR; CAL-ROYAL INDLEV-20 PRIVACY INDICATOR - 26D.
07	ACCESSIBLE RESTROOM 1	(E)	(E)	3'-0 V.I.F.	7'-0 V.I.F.	V.I.F.	V.I.F.	PT-5	V.I.F.	V.I.F.	V.I.F.	9/A10.6	V.I.F.	PT-5	GC TO INSPECT EXISTING DOOR HARDWARE & REFURBISH / REPLACE AS NEEDED FOR LIKE NEW WORKING ORDER. SIGNAGE FURNISHED & INSTALLED BY GC. SEE DETAIL 17/A06.3. PROVIDE NEW LOCKSET: PRIVACY LOCK WITH INDICATOR; CAL-ROYAL INDLEV-20 PRIVACY INDICATOR - 26D.
08	ACCESSIBLE RESTROOM 2	(E)	(E)	3'-0 V.I.F.	7'-0 V.I.F.	V.I.F.	V.I.F.	PT-5	V.I.F.	V.I.F.	V.I.F.	9/A10.6	V.I.F.	PT-5	
09	MANAGER'S OFFICE	C	V.I.F.	3'-0" V.I.F.	7'-0" V.I.F.	V.I.F.	V.I.F.	PT-5	---	18/A09.1	19/A09.1	---	---	PT-5	SIGNAGE BY OWNER - INSTALLED BY GC. SURFACE MOUNT DOOR CONTACT.
10A	HALLWAY	C	5	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	PT-1	---	18/A09.1	19/A09.1	---	METAL	PT-1	SIGN " STAFF ONLY" VESTIBULE SIDE. DOOR DOES NOT INCLUDE CLOSER.
10B	EXISTING EGRESS DOOR	(E)	(E)	3'-0"	7'-0"	1 3/4"	---	PT-5	---	---	---	---	METAL	PT-5	NEW PANIC HARDWARE AS PER GROUP 4. TACTILE "EXIT" SIGN @ 60" AFF TO CENTER OF SIGN. KEY PAD. SURFACE MOUNT DOOR CONTACT.

10 DOOR SCHEDULE
SCALE: NTS

ABBREVIATION LEGEND

AA	AUDIBLE ALARM
AC	ALARM CONTRACT
AL	ALUMINUM
CGL	CLEAR GLASS
CONC	CONCRETE
CPT	CARPET
CWGL	CLEAR WIRE GLASS
DV	DOOR VIEWER
HM	HOLLOW METAL
MHO	MAGNETIC HOLD OPEN
WD	WOOD
GL	GLASS PER SPECIFICATION

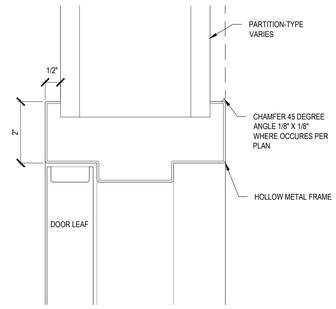


19 HOLLOW METAL FRAME DOOR JAMB
SCALE: 6" = 1'-0"

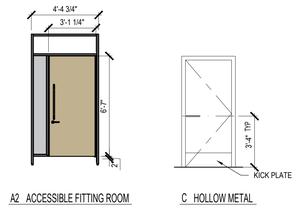
15 NOT USED
SCALE: NTS

HARDWARE SET #3: BOH_STAFF	MFG.
BUTT HINGES: 4 ½" x 4 ½"; BUTT; FINISH: US26D (3 EACH)	MCKINNEY OR EQUAL
PULL PLATE: #8311; FINISH: SATIN ALUMINUM	IVES OR EQUAL
PUSH PLATE: #8200; SIZE: 3 1/2" X 15"; FINISH: SATIN ALUMINUM	IVES OR EQUAL
SILENCERS: SR64 (3 EACH)	IVES OR EQUAL
FLOOR STOP: ROCKWOOD DOME STOP 441 (1 EACH); FINISH: US26D	ROCKWOOD
CLOSER w/ HOLD OPEN: HAGER 5200 ADJ 1-6 ALM (1 EACH)	HAGER
TRIM PROTECTOR: #R111LPB; FINISH: US26D	ROCKWOOD
HARDWARE SET #3.1: OFFICE	
BUTT HINGES: 4 ½" x 4 ½"; BUTT; FINISH: US26D (3 EACH)	MCKINNEY OR EQUAL
STOREROOM FUNCTION CYLINDRICAL LOCKSET (HAGER 3580 SFIC WTN 26D)	HAGER
SILENCERS: SR64 (1 EACH)	IVES OR EQUAL
FLOOR STOP: ROCKWOOD DOME STOP 441 (1 EACH); FINISH: US26D	ROCKWOOD
CLOSER w/ HOLD OPEN: #DC6200 (1 EACH); PAINT TO MATCH DOOR COLOR	CORBIN-RUSSWIN
TRIM PROTECTOR: #R111LPB; FINISH: US26D	ROCKWOOD
CLOSER w/ HOLD OPEN: HAGER 5200 ADJ 1-6 ALM (1 EACH)	HAGER
TRIM PROTECTOR: #R111LPB; FINISH: US26D	ROCKWOOD
LOCKSET: HAGER 3580 SFICWTN26D	G.C.
HARDWARE SET #4: BOH EGRESS	MFG.
BUTT HINGES: 4 ½" x 4 ½"; BUTT; FINISH: US26D (3 EACH)	MCKINNEY OR EQUAL
(DETEX) ECL-230X-TDB (FOR EXTERIOR EGRESS DOORS); ONE (1) 3-POINT DEAD BOLT	DETEX
SILENCERS: SR64 (3 EACH)	IVES OR EQUAL
NEW FLOOR OR WALL STOP (WHERE APPLICABLE): 445 / 446 OR 402 ½ (408 ½); (1 EACH); FINISH: US26D	IVES OR EQUAL
CLOSER w/ HOLD OPEN: HAGER 5200 ADJ 1-6 ALM (1 EACH)	HAGER
PEEPHOLE: RESIDENTIAL TYPE MOUNTED AT 60" A.F.F.	BID
DOOR SEAL: #222AV	PEMKO
SMOKE GASKET AROUND ENTIRE PERIMETER	BID
DOORBELL	
HARDWARE SET #5: BOH / STOCK	MFG.
BUTT HINGES: 4 ½" x 4 ½"; BUTT; FINISH: US26D (3 EACH)	MCKINNEY OR EQUAL
PULL PLATE: #8311; FINISH: SATIN ALUMINUM	IVES OR EQUAL
PUSH PLATE: #8200; SIZE: 3 1/2" X 15"; FINISH: SATIN ALUMINUM	IVES OR EQUAL
SILENCERS: SR64 (3 EACH)	IVES OR EQUAL
FLOOR STOP: ROCKWOOD DOME STOP 441 (1 EACH); FINISH: US26D	ROCKWOOD
CLOSER w/ HOLD OPEN: HAGER 5200 ADJ 1-6 ALM (1 EACH)	HAGER
KICKPLATE: B400 8X34 B4E CS 32D	IVES OR EQUAL
HARDWARE SET #6: RESTROOM	MFG.
BUTT HINGES: 4 ½" x 4 ½"; BUTT; FINISH: US26D (3 EACH)	MCKINNEY OR EQUAL
LOCKSET: PRIVACY LOCK WITH INDICATOR. CAL-ROYAL INDLEV-20 PRIVACY INDICATOR - 26D.	CAL-ROYAL
SILENCERS: SR64 (1 EACH)	IVES OR EQUAL
FLOOR STOP: ROCKWOOD DOME STOP 441 (1 EACH); FINISH: US26D	ROCKWOOD
CLOSER w/ HOLD OPEN: HAGER 5200 ADJ 1-6 ALM (1 EACH)	HAGER
TRIM PROTECTOR: #R111LPB; FINISH: US26D	ROCKWOOD
BUMPER GUARDS: SERIES 40; COLOR: POLAR WHITE (3 EACH); FURNISHED BY OWNER; INSTALLED BY GC	BOSTON BUMPERS

2 DOOR HARDWARE SCHEDULE
SCALE: NTS

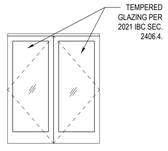


18 HOLLOW METAL FRAME DOOR HEAD
SCALE: 6" = 1'-0"



A2 ACCESSIBLE FITTING ROOM

C HOLLOW METAL

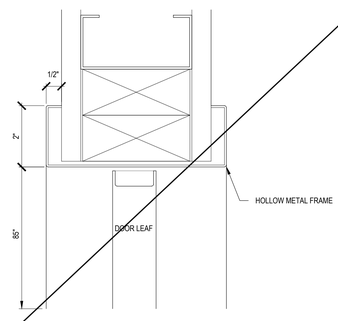


B DOUBLE DOORS

10 DOOR STYLES
SCALE: 1/4" = 1'-0"

1. THIS PROJECT SHALL COMPLY WITH ALL BARRIER FREE GUIDELINES AND LOCAL ACCESS CODE REQUIREMENT REQUIREMENTS.
2. THRESHOLDS SHALL BE NO HIGHER THAN 1/2" ABOVE THE FLOOR. EDGE TO BE BEVELED WITH A SLOPE NO GREATER THAN 1 IN 2.
3. DOOR HARDWARE SHALL BE OF THE LEVER OR PUSH TYPE. MOUNTED 30" TO 44" ABOVE THE FLOOR AND BE OPERABLE WITH A MAXIMUM EFFORT OF 5 LBS. FOR INTERIOR DOORS. EXTERIOR DOOR - 8 1/2" POUNDS MAX. PRESSURE FIRE DOOR - 15 POUNDS MAX. PRESSURE
4. ACCESSIBLE DOORS MUST BE MINIMUM 3'-0"W X 6'-8"H. MODIFY IF REQUIRED.
5. PROVIDE 18" CLEAR SPACE AT STRIKE/PULL SIDE ON INTERIOR DOORS, AND 12" CLEAR AT STRIKE/PUSH SIDE OF DOORS W/ CLOSERS AND 24" CLEAR AT STRIKE/PULL SIDE ON EXTERIOR DOOR
6. FLOOR SHALL BE LEVEL THROUGHOUT.
7. CLOSERS: FURNISHED AND INSTALLED BY GENERAL GC. DOOR CLOSERS TO BE MOUNTED ON SWING SIDE OF DOORS. DOOR CLOSERS TO HAVE A MAXIMUM OPENING FORCE OF 5 LBS (INTERIOR HINGED DOORS). EXTERIOR DOOR - 8 1/2" POUNDS MAX. PRESSURE, FIRE DOOR - 15 POUNDS MAX. PRESSURE THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 110 DEGREES MIN., THE DOOR SHALL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 IN. FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
8. GENERAL GC SHALL PROVIDE KICKPLATES ON BACK OF HOUSE DOORS AS INDICATED IN DOOR SCHEDULE. VERIFY TYPE AND STYLE WITH OWNER TO MATCH FRAME FINISH 12" X 34".
9. GC SHALL VERIFY WITH SUPPLIER THAT ALL HARDWARE MEETS BARRIER FREE REQUIREMENTS.
10. ALL DOOR HINGES TO BE STEEL BALL BEARING, FULL MORTISE TYPE.
11. ALL METAL DOOR FRAMES TO BE PROVIDED WITH SILENCERS.
12. ALL INTERIOR DOORS TO BE PROVIDED WITH COMMERCIAL GRADE WALL OR FLOOR STOPS.
13. GENERAL GC TO SUBMIT TYPE-WRITTEN SHOP DRAWINGS AND PRODUCT LITERATURE FOR ALL DOORS AND HARDWARE SPECIFIED.
14. GENERAL GC SHALL ENSURE ALL EXISTING DOORS TO REMAIN TO BE IN GOOD OPERATING ORDER AND TO MEET ALL LOCAL BUILDING CODES AND BARRIER FREE REQUIREMENTS. GENERAL GC TO RESTORE DOORS AND HARDWARE TO "LIKE NEW" CONDITION. GC TO PROVIDE NEW HARDWARE.
15. EXTERIOR HINGES TO HAVE NON-REMOVEABLE PINS.
16. ALL RATED DOORS TO BE SUPPLIED WITH THRESHOLDS AND SMOKE SEAL PER SPECIFICATIONS AND CODE.
17. EQUIVALENT HARDWARE MUST BE APPROVED BY THE PROJECT MANAGER.
18. GC TO CORE/DRILL FITTING ROOM DOORS ON SITE FOR HINGES AND LEVER.
19. ALL FIRE RATINGS SUBJECT TO APPROVAL FROM LOCAL AUTHORITY/FIRE OFFICER.
20. ALL DIMENSIONS TO BE VERIFIED ON SITE PRIOR TO MANUFACTURE.
21. ALLOW FOR PATTRESSING WHERE REQUIRED. REFER TO STANDARD DETAILS.
22. ALLOW FOR CEILING BARRIERS ABOVE PARTITIONS AS REQUIRED IN ORDER TO RETAIN PARTITION TYPE ACOUSTIC PERFORMANCE. ALL SERVICES WHICH PENETRATE BARRIERS TO BE SEALED AS REQUIRED.
23. FIRE DAMPERS TO BE INSTALLED AS PER FIRE OFFICER RECOMMENDATIONS.
24. INSTALL FINGER GUARD

1 DOOR HARDWARE SCHEDULE
SCALE: NTS



17 HOLLOW METAL FRAME FITTING ROOM DOOR HEAD (NOT USED)
SCALE: 6" = 1'-0"

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DOOR & WALL SCHEDULE

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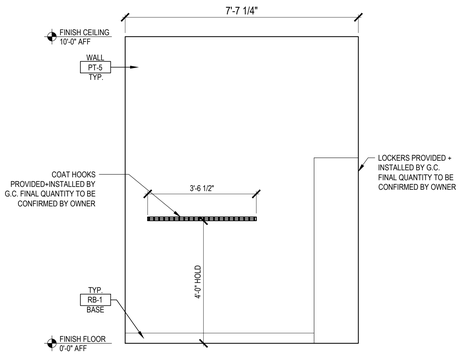
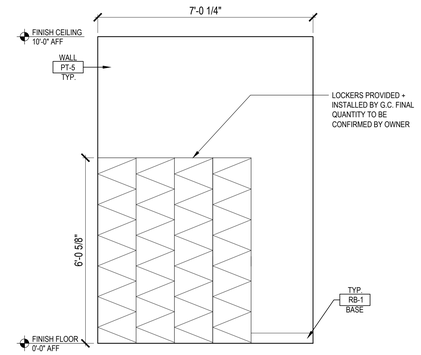
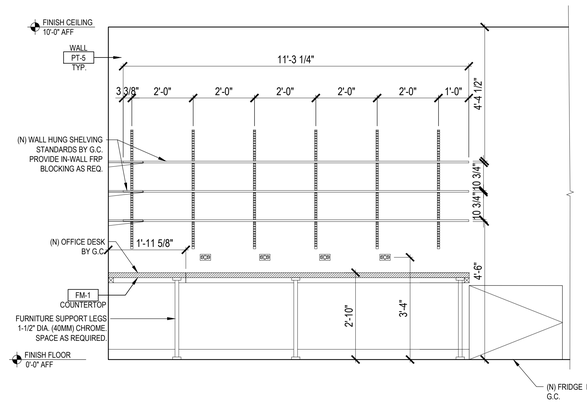


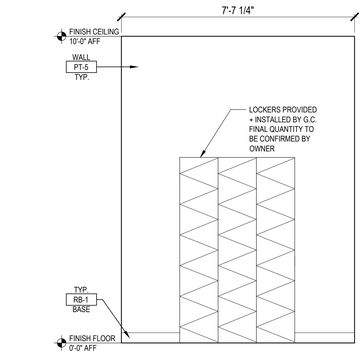
20 LOCKER ROOM ELEVATION
SCALE: 1/2" = 1'-0" (1:24)



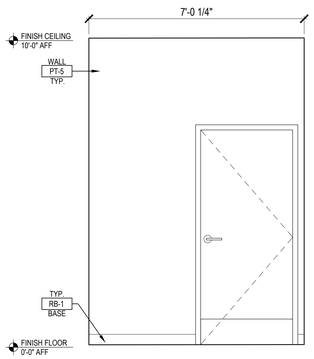
16 LOCKER ROOM ELEVATION
SCALE: 1/2" = 1'-0" (1:24)



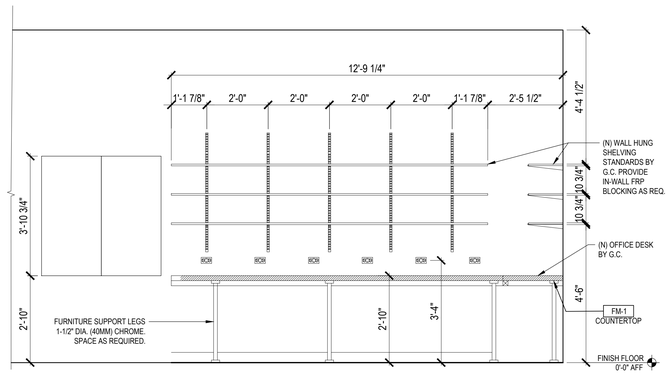
8 STAFF AREA ELEVATION
SCALE: 1/2" = 1'-0" (1:24)



19 LOCKER ROOM ELEVATION
SCALE: 1/2" = 1'-0" (1:24)

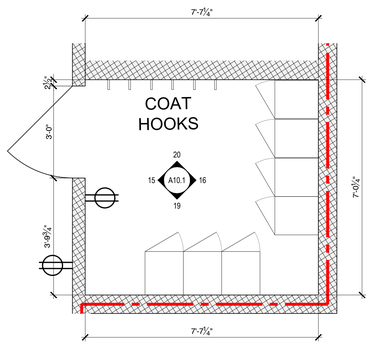


15 LOCKER ROOM ELEVATION
SCALE: 1/2" = 1'-0" (1:24)



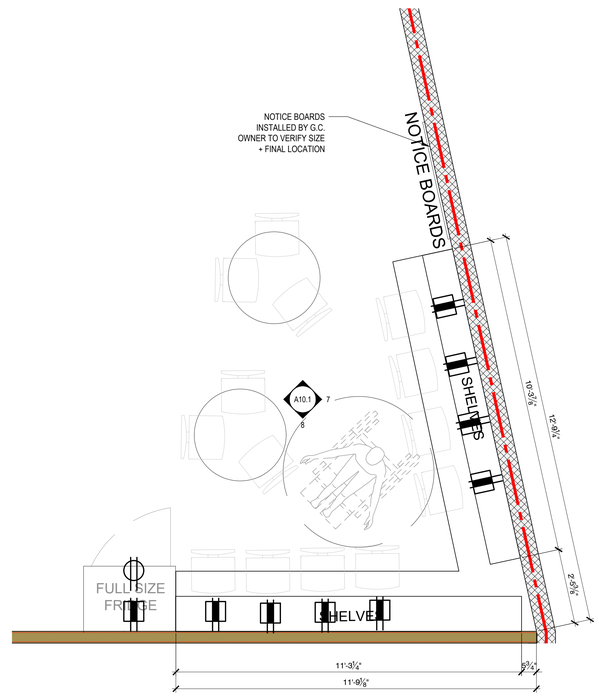
7 STAFF AREA ELEVATION
SCALE: 1/2" = 1'-0" (1:24)

NOTE: SEE CONSTRUCTION FLOOR PLAN FOR DOOR NUMBER IDENTIFIERS.

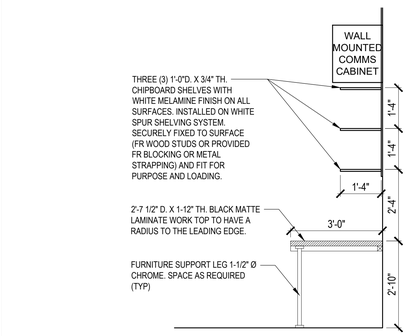


17 ENLARGED LOCKER ROOM PLAN
SCALE: 1/2" = 1'-0" (1:24)

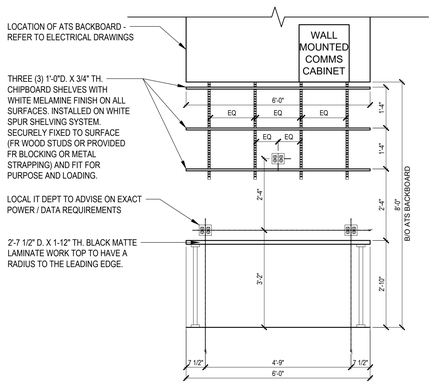
NOTE: SEE CONSTRUCTION FLOOR PLAN FOR DOOR NUMBER IDENTIFIERS.



9 ENLARGED STAFF ROOM PLAN
SCALE: 1/2" = 1'-0" (1:24)



4 RECEIVING DESK SECTION
SCALE: 1/2" = 1'-0"_XREF



3 RECEIVING DESK ELEVATION
SCALE: 1/2" = 1'-0"_XREF

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PORTFOLIO REFERENCE ONLY

Client:
JD SPORTS

3308 N. MITTHOEFFER ROAD
INDIANAPOLIS, IN 46235

STAFF AREA &
LOCKER ROOM
ELEVATIONS
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A10.1A

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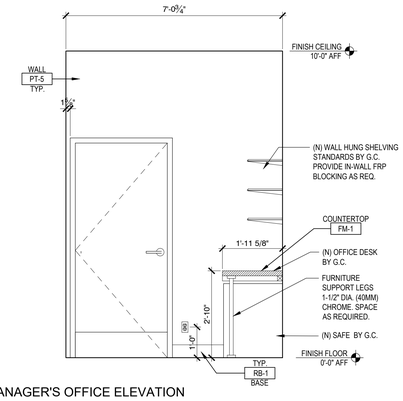
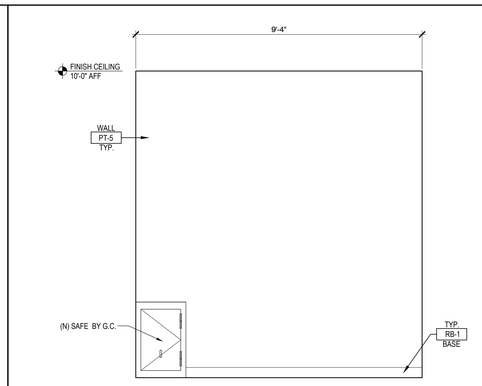
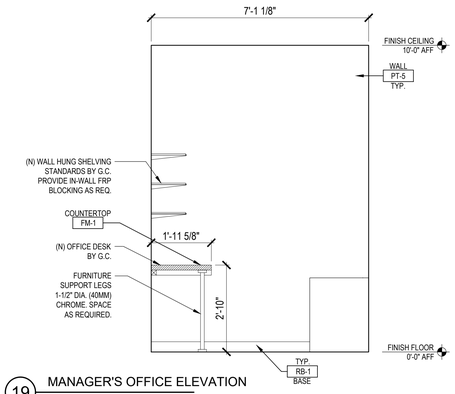


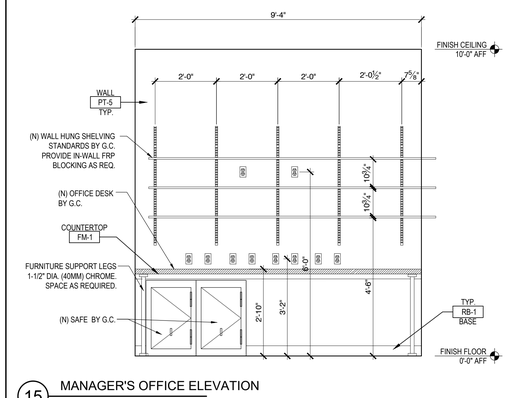
20 MANAGER'S OFFICE ELEVATION
SCALE: 1/2" = 1'-0" (1:24)



16 MANAGER'S OFFICE ELEVATION
SCALE: 1/2" = 1'-0" (1:24)

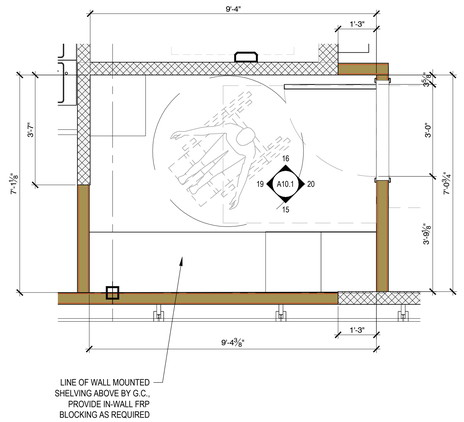


19 MANAGER'S OFFICE ELEVATION
SCALE: 1/2" = 1'-0" (1:24)



15 MANAGER'S OFFICE ELEVATION
SCALE: 1/2" = 1'-0" (1:24)

NOTE: SEE CONSTRUCTION FLOOR PLAN FOR DOOR NUMBER IDENTIFIERS.



3 ENLARGED MANAGER'S OFFICE PLAN
SCALE: 1/2" = 1'-0" (1:24)

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MANAGERS ROOM
ELEVATIONS
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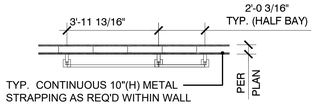
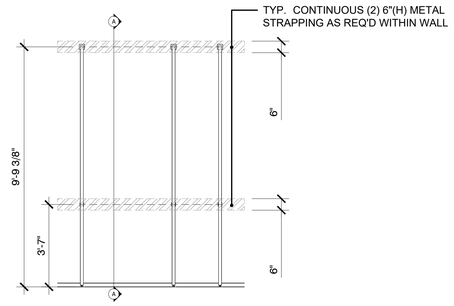


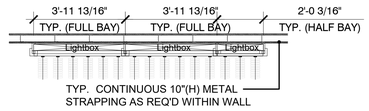
20A PERIMETER POST STRAPPING PLAN DETAIL

SCALE: 3/8" = 1'-0"



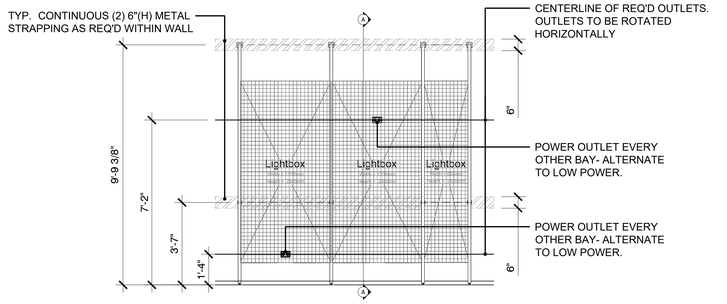
20 PERIMETER POST STRAPPING ELEVATION

SCALE: 3/8" = 1'-0"



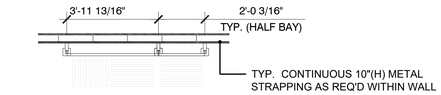
12A PERIMETER POST ACCESSORIES WALL POWER AND STRAPPING PLAN DETAIL

SCALE: 3/8" = 1'-0"



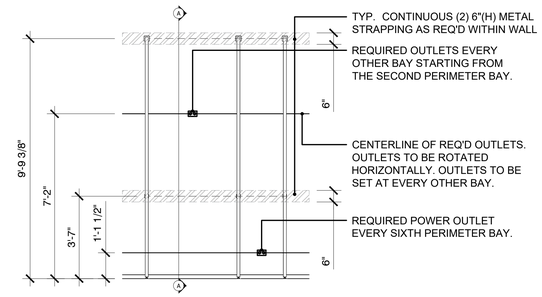
12 PERIMETER POST ACCESSORIES WALL POWER AND STRAPPING ELEVATION

SCALE: 3/8" = 1'-0"



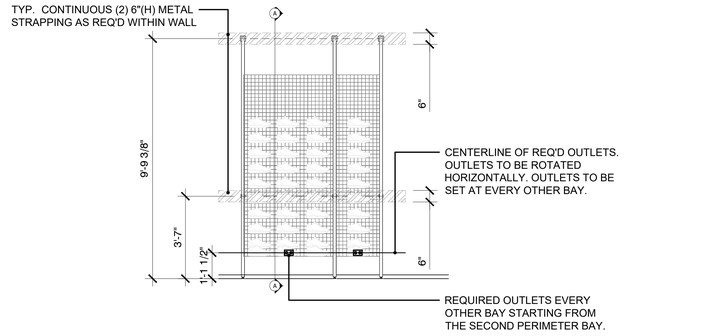
18A PERIMETER POST APPAREL WALL POWER AND STRAPPING PLAN DETAIL

SCALE: 3/8" = 1'-0"



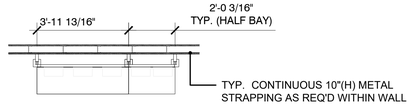
18 PERIMETER POST APPAREL WALL POWER AND STRAPPING ELEVATION

SCALE: 3/8" = 1'-0"



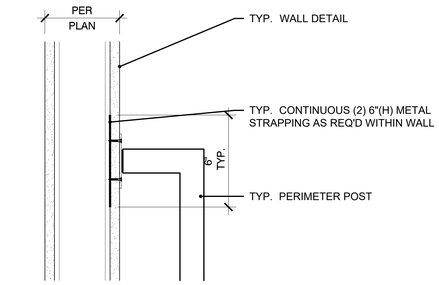
10 PERIMETER POST FOOTWEAR WALL POWER AND STRAPPING ELEVATION

SCALE: 3/8" = 1'-0"



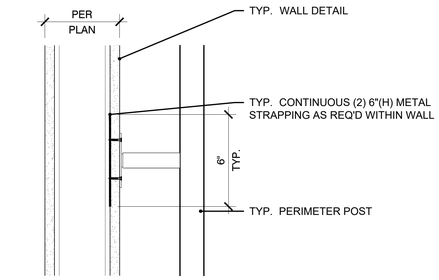
10A PERIMETER POST FOOTWEAR WALL POWER AND STRAPPING PLAN DETAIL

SCALE: 3/8" = 1'-0"



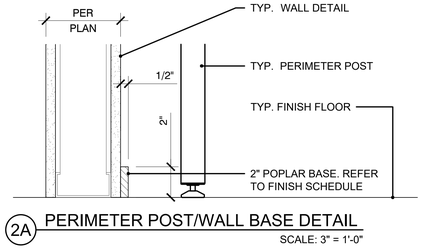
2-C PERIMETER POST UPPER STRAPPING DETAIL

SCALE: 3" = 1'-0"



2B PERIMETER POST LOWER STRAPPING DETAIL

SCALE: 3" = 1'-0"

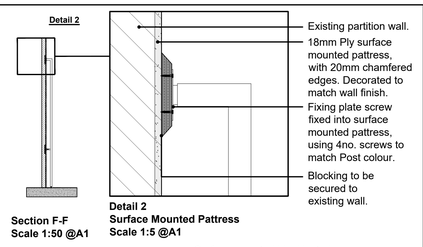


2A PERIMETER POST/WALL BASE DETAIL

SCALE: 3" = 1'-0"

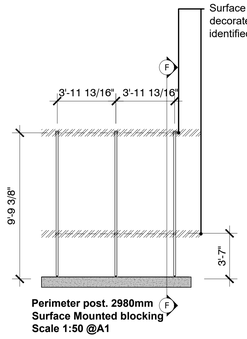
2 WALL SECTION A-A

SCALE: 3" = 1'-0"



Section F-F
Scale 1:50 @A1

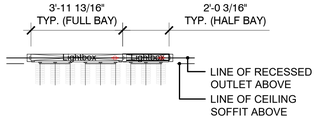
Detail 2
Surface Mounted Pattress
Scale 1:5 @A1



Perimeter post. 2980mm
Surface Mounted blocking
Scale 1:50 @A1

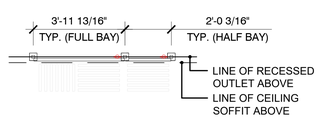
22 PERIMETER POST BAYS

SCALE AS NOTED



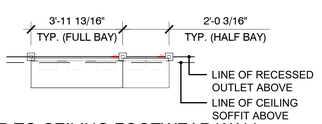
17A FLOOR TO CEILING ACCESSORIES WALL POWER AND STRAPPING PLAN DETAIL

SCALE: 3/8" = 1'-0"



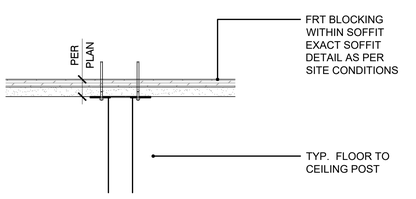
13A FLOOR TO CEILING APPAREL WALL POWER AND STRAPPING PLAN DETAIL

SCALE: 3/8" = 1'-0"



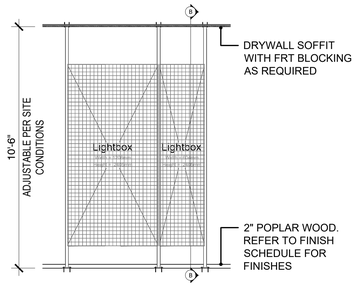
9A FLOOR TO CEILING FOOTWEAR WALL POWER AND STRAPPING PLAN DETAIL

SCALE: 3/8" = 1'-0"



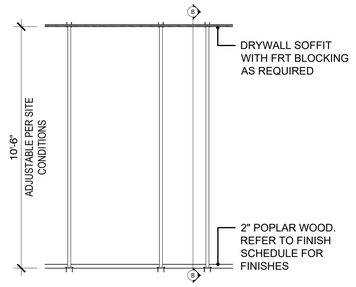
1B FLOOR TO CEILING POST SOFFIT DETAIL

SCALE: 3" = 1'-0"



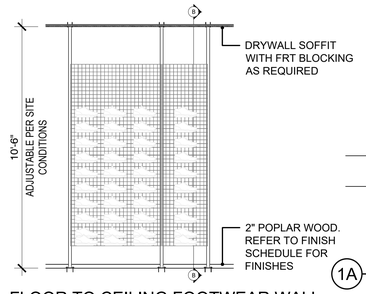
17 FLOOR TO CEILING ACCESSORIES WALL POWER AND STRAPPING ELEVATION

SCALE: 3/8" = 1'-0"



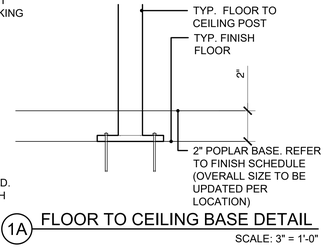
13 FLOOR TO CEILING APPAREL WALL POWER AND STRAPPING ELEVATION

SCALE: 3/8" = 1'-0"



9 FLOOR TO CEILING FOOTWEAR WALL POWER AND STRAPPING ELEVATION

SCALE: 3/8" = 1'-0"



1A FLOOR TO CEILING BASE DETAIL

SCALE: 3" = 1'-0"

1 WALL SECTION B-B

SCALE: 3" = 1'-0"

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TYPICAL DETAILS

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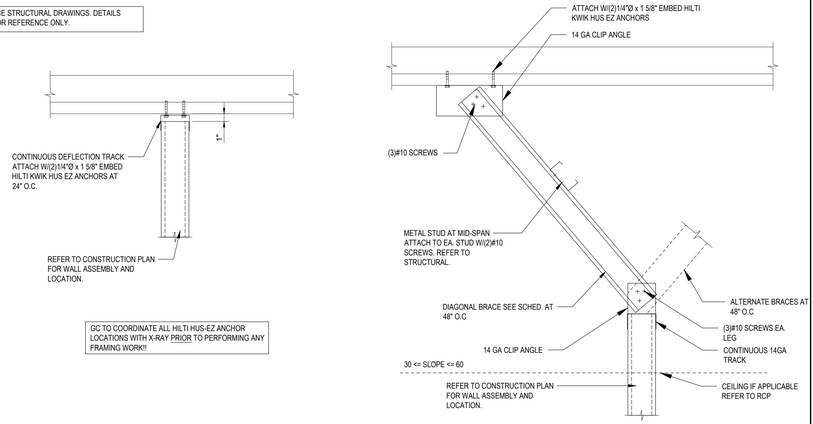
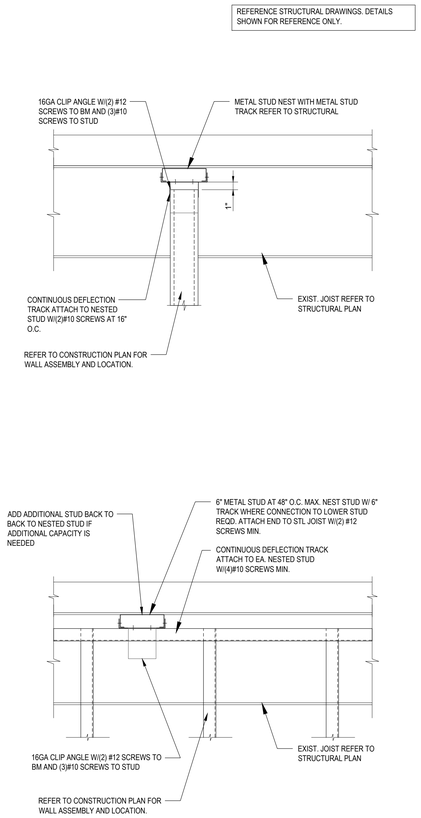


19 ATTACHMENT DETAILS @ METAL DECK (FOR REFERENCE ONLY)
SCALE: 1-1/2" = 1'-0"



11 ATTACHMENT DETAILS @ STEEL BEAMS (FOR REFERENCE ONLY)
SCALE: 1-1/2" = 1'-0"

3 NOT USED
SCALE: NTS

STUD DESIGNATION	STUD DEPTH	FLANGE WIDTH	STUD GUAGE	STUD SPACING	MAXIMUM WALL HEIGHT OR MAXIMUM HEIGHT TO DIAGONAL BRACE
362S162-33	3-5/8"	1-5/8"	20	16"	17'-6"
362S162-43	3-5/8"	1-5/8"	18	16"	19'-0"
362S162-54	3-5/8"	1-5/8"	16	16"	20'-6"
600S162-33	6"	1-5/8"	20	16"	26'-6"
600S162-43	6"	1-5/8"	18	16"	28'-6"
600S162-54	6"	1-5/8"	16	16"	30'-0"
800S162-33	8"	1-5/8"	20	16"	32'-2"
800S162-43	8"	1-5/8"	18	16"	35'-4"
800S162-54	8"	1-5/8"	16	16"	38'-1"

LIGHT GAUGE FRAMING - CROSS REFERENCE GUIDE

MIL. THICKNESS - GAUGE NUMBER CROSS REFERENCE

25 GA.	18 MIL	16 GA.	54 MIL
22 GA.	27 MIL	14 GA.	68 MIL
20 GA.	33 MIL	12 GA.	97 MIL
18 GA.	43 MIL		

EXAMPLE CROSS REFERENCE

3 5/8", 18 GA. STRUCTURAL MTL STUD - 362 S 162 - 43 METAL STUD

- 362: STUD DEPTH =3.625" =3 5/8"
- S: (S=STUD) (T=TRACK)
- 162: FLANGE WIDTH =1.625" =1 5/8"
- 43: STUD THICKNESS =43 MIL (18 GA.)

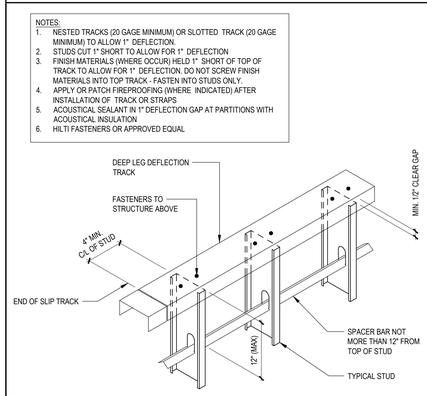
LIGHT GAUGE FRAMING SCREW CONNECTIONS

UNLESS NOTED, LIGHT GAUGE FRAMING CONNECTIONS SHALL BE MADE USING #8 SCREWS.

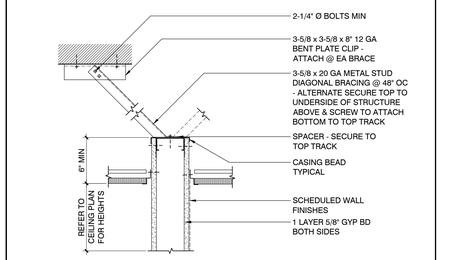
AT LOCATIONS WHERE SHEATHING MATERIAL IS PLACED AGAINST THE SCREW HEADS OF LIGHT GAUGE METAL FRAMING CONNECTIONS, PANCAKE HEAD SCREWS SHALL BE USED SO THAT THE SHEATHING MATERIAL REMAINS STRAIGHT AND SMOOTH.

METAL STUD ICC # ESR-1166

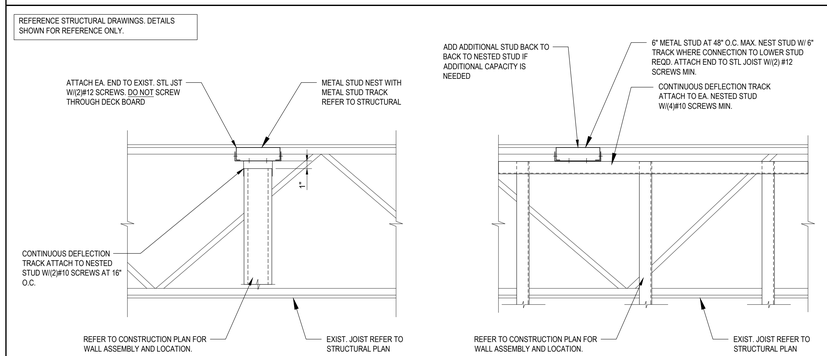
4 STUD FRAMING SCHEDULE
SCALE: 1'-0" = 1'-0"



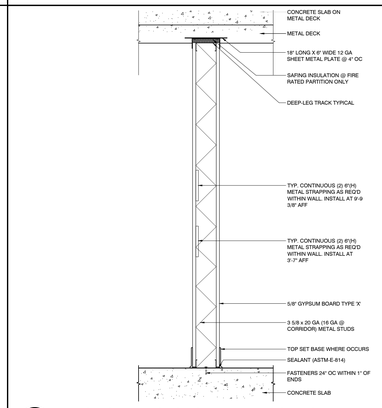
7 DEFLECTION TRACK (FOR REFERENCE ONLY)
SCALE: 3" = 1'-0"



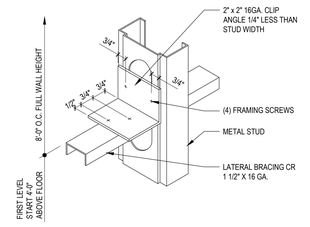
3 FULL HEIGHT PARTITION WITH BRACING (FOR REFERENCE ONLY)
SCALE: 1-1/2" = 1'-0"



18 ATTACHMENT DETAILS @ METAL JOISTS (FOR REFERENCE ONLY)
SCALE: 1-1/2" = 1'-0"

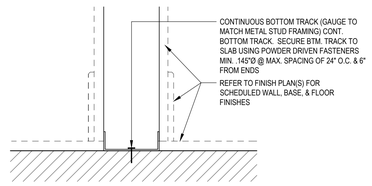


16 DEMISING WALL SECTION WITH BLOCKING
SCALE: 1" = 1'-0" (1:12)

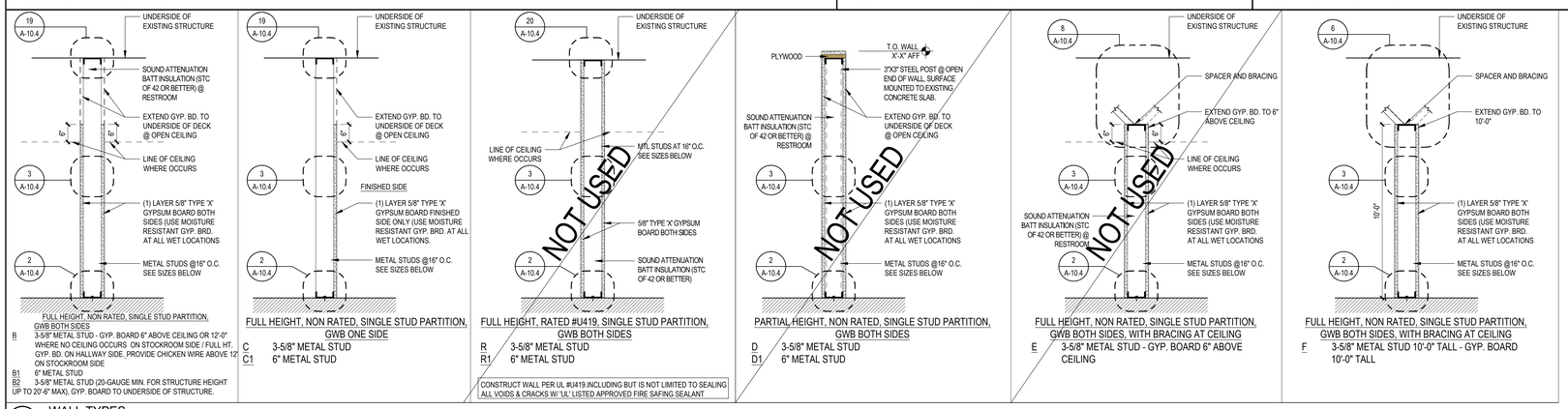


6 LATERAL BRACING SUPPORT (FOR REFERENCE ONLY)
SCALE: 6" = 1'-0"

POWDER DRIVEN FASTENERS - ICC #ESR-1663



2 TYPICAL CONNECTION @ FLOOR (FOR REFERENCE ONLY)
SCALE: 3" = 1'-0"



GENERAL WALL TYPE NOTES:
- USE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS
- SOUND BATT INSULATION WITH AN STC OF 42 OR BETTER TO BE INSTALLED IN ALL DEMISING WALLS AND RESTROOM WALLS.
- REFER TO METAL STUD SCHEDULE ON THIS SHEET FOR GAUGE SIZES UNLESS NOTED OTHERWISE.

17 WALL TYPES
SCALE: 1" = 1'-0"

LANDLORD COMMENT:
ANY AND ALL PONTS OF CONNECTIONS MUST BE TO THE TOP CHORD OF BAR JOISTS ONLY AND VIA JOIST CLAMPS. MECHANICALLY FASTENING TO THE MALL'S STRUCTURAL IS ONLY PERMITTED IF REQUIRED BY CODE.

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Seal:

A Project for:

JD SPORTS #1425
LAS AMERICAS PREMIUM OUTLETS
4155 CAMINO DE LA PLAZA SPACE 0448A
SAN DIEGO, CA 92173

PORTFOLIO REFERENCE ONLY
Client:
JD SPORTS

3308 N. MITTHOEFFER ROAD
INDIANAPOLIS, IN 46235

TYPICAL CEILING DETAILS

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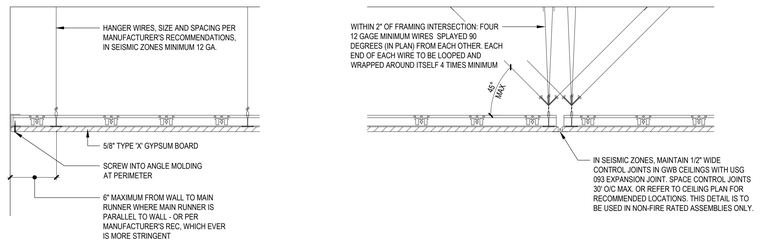
LOCATE BRACING AT 12'-0" ON CENTER EACH DIRECTION AND WITHIN 6'-0" OF PERIMETER PARTITION OR PER MANUFACTURER RECOMMENDATIONS, WHICH EVER IS MORE STRINGENT

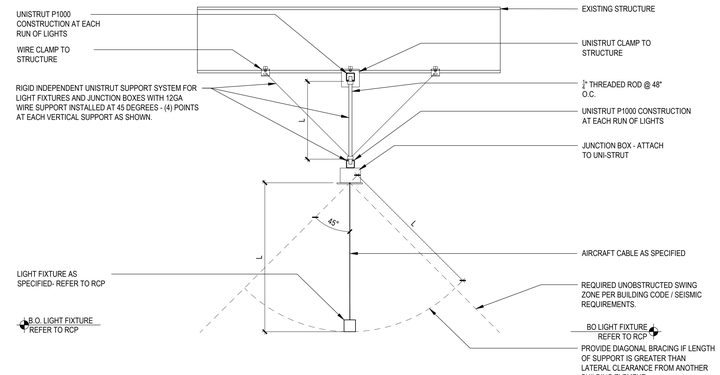
U.S.G. DRYWALL SUSPENSION SYSTEM:
- DGLW-26, 12' X 1 1/2" X 1 1/2" HEAVY DUTY MAIN TEE
- DGLW-424, 4' X 1 1/2" X 1 1/2" CROSS TEE - INSTALL PER MANUFACTURER RECOMMENDATIONS - OR OWNER APPROVED USG OR ARMSTRONG ALTERNATE SYSTEM

ICC-ESR-1222

LARR#: RR 25764

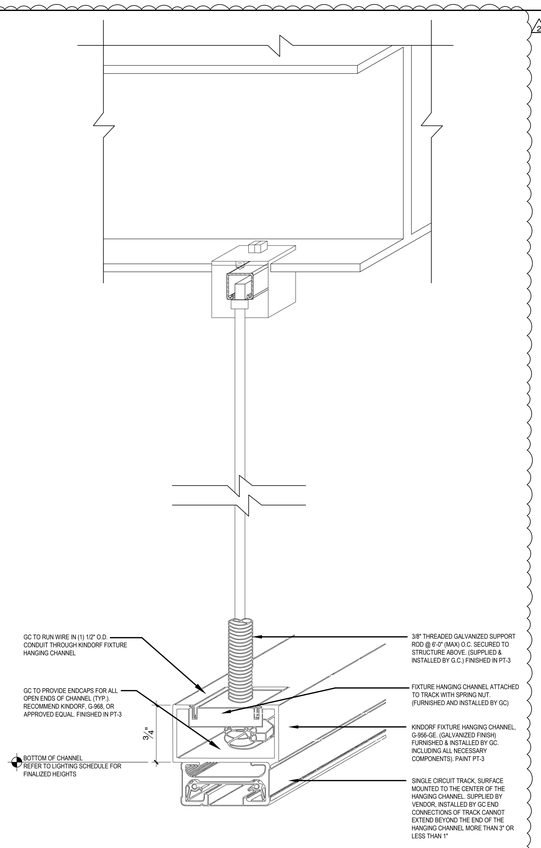


8 SEISMIC SUSPENDED GYP. BD. CEILING DETAIL
SCALE: 1'-0" = 1'-0"



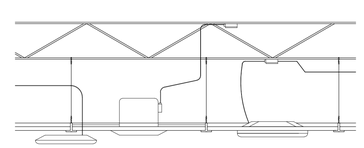
7 SEISMIC FIXTURE ATTACHMENT
SCALE: 1" = 1'-0"

19 NOT USED
SCALE: NTS



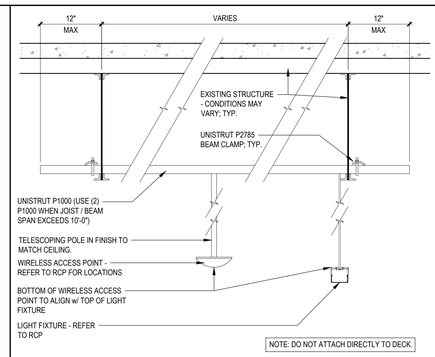
17 TYP. CEILING TRACK DETAIL
SCALE: NTS

10 NOT USED
SCALE: NTS



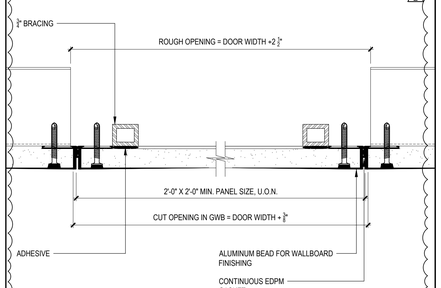
1. ALL LIGHT FIXTURES & AIR DIFFUSERS SHALL BE POSITIVELY ATTACHED TO THE SUSPENDED CEILING SYSTEM. THE ATTACHMENT DEVICE SHALL HAVE A CAPACITY OF 100% OF THE FIXTURE WEIGHT.
2. FIXTURES LESS THAN 10 POUNDS SHALL HAVE (1) 12 GA. HANGER WIRE. THIS WIRE MAY BE SLACK.
3. FIXTURES 11 TO 55 POINTS SHALL HAVE (2) 12 GA. HANGER WIRES. THESE WIRES MAY BE SLACK.
4. AIR TERMINALS OR SERVICES WEIGHING 20 TO 56 POUNDS SHALL HAVE (2) 12 GA. HANGER WIRES. THESE WIRES MAY BE SLACK.
5. FIXTURES 56 POUNDS OR MORE SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE WITHOUT USING THE CEILING SUSPENSION SYSTEM FOR DIRECT SUPPORT.
6. AIR TERMINALS OR SERVICES WEIGHING MORE THAN 56 POUNDS SHALL BE SUPPORTED DIRECTLY TO THE STRUCTURE ABOVE.

6 SEISMIC FIXTURE ATTACHMENT DETAIL
SCALE: 1'-0" = 1'-0"



2 WIRELESS ACCESS POINT MOUNTING DETAIL
SCALE: 1" = 1'-0"

9 NOT USED
Scale: 3" = 1'-0"



BAUCO PLUS II SINGLE LEAF WALL OR CEILING ACCESS PANEL WITH TOUCH LATCH

ROUGH OPENING DIMENSIONS ARE AN ADDITIONAL 2-1/2" TO THE DOOR PANEL WIDTH
CUT OPENING DIMENSIONS ARE AN ADDITIONAL 1" TO THE DOOR PANEL WIDTH

WWW.ACCESSPANELSOLUTIONS.COM (877-592-0033)

5 ACCESS PANEL AT GYP. BD. CEILINGS
SCALE: 6" = 1'-0"

1 NOT USED
SCALE: 1" = 1'-0"

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SAN DIEGO, CA 92173

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TYPICAL CEILING DETAILS

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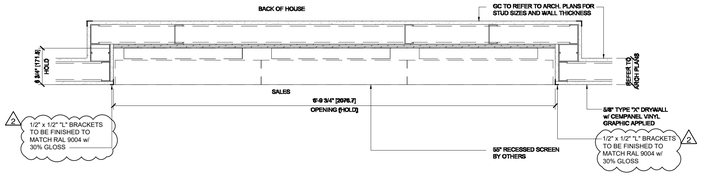
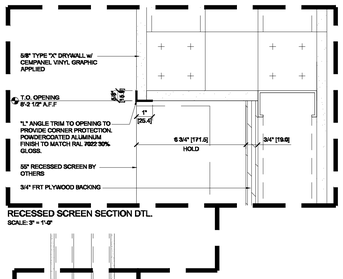
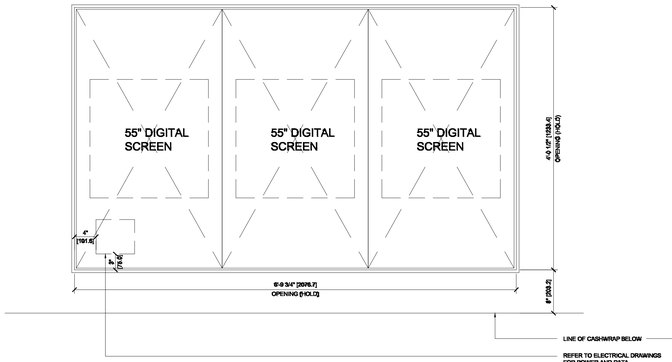


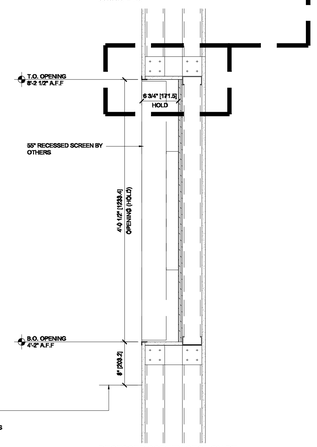
RECESSED SCREEN PLAN DETAIL: 3 SCREEN
SCALE: 1" = 1'-0"



RECESSED SCREEN SECTION DTL.
SCALE: 3" = 1'-0"



RECESSED SCREEN ELEVATION: 3 SCREEN
SCALE: 1" = 1'-0"



RECESSED SCREEN SECTION DT
SCALE: 1" = 1'-0"

19 55" RECESSED DIGITAL SCREEN
SCALE: 1" = 1'-0"

1 LANDLORD NOTE:
DISPLAY MUST BE A MINIMUM OF 1'0" FROM STOREFRONT GLASS AND INCORPORATED INTO THE OVERALL STOREFRONT DESIGN AND MERCHANDISING PACKAGE.

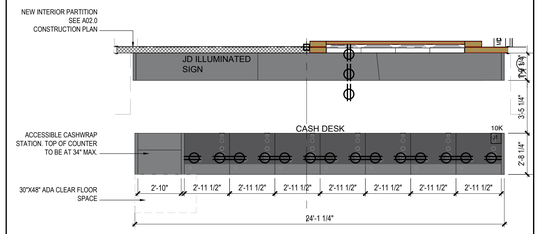
DIGITAL SCREEN DESIGN AND SIZE TO BE APPROVED BY LL SCREENS MUST BE ENCASED WITHIN ATTRACTIVE DISPLAY FIXTURES TO CONCEAL ALL SURFACES FROM EVERY VIEW, EXCEPT FOR THE SCREEN SURFACE.

THE CONTENT, IN LANDLORD'S REASONABLE BUSINESS JUDGMENT, SHALL BE APPROPRIATE FOR ALL AGE GROUPS.

NO SOUND SHALL BE PRODUCED WHICH IS AUDIBLE IN THE COMMON AREA. NO PRICING, "SALE", OR SIMILAR INFORMATION SHALL BE DISPLAYED. THE CONTENT SHALL NOT PROMOTE OR FEATURE: (A) ANOTHER RETAILER OR BUSINESS; (B) A DIFFERENT TENANT LOCATION; (C) AN EVENT OR PROMOTION UNRELATED TO TENANT; OR (D) ANY GOODS OR MERCHANDISE NOT AVAILABLE IN TENANT'S STORE, I.E. NO URLS ALLOWED TO BE DISPLAYED.

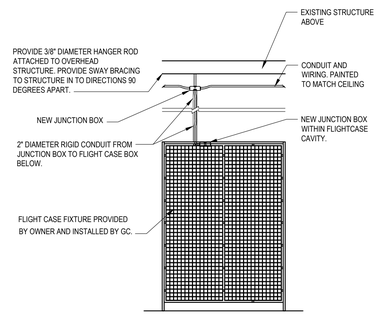
ALL WIRING MUST BE CONCEALED FROM VIEW.

8 NOT USED
SCALE: 1/4" = 1'-0"

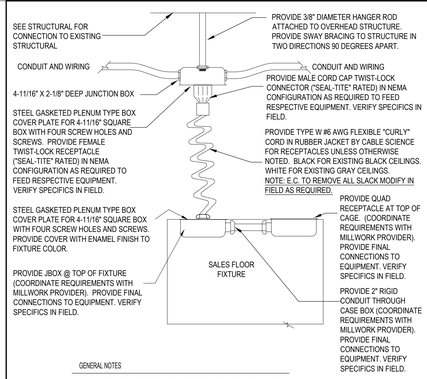


CASHDESK SHOWN IS SCHEMATIC AND FOR GENERAL COMPONENT SIZES.CONFIRM WITH MILLWORK PLAN FOR EXACT SIZE

4 CASH WRAP PLAN
SCALE: 1/4" = 1'-0"

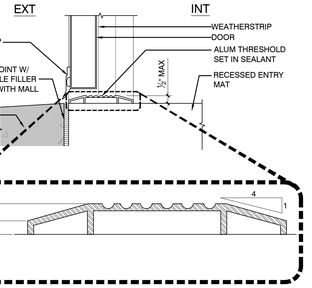


7 FLIGHTCASE POWER DETAIL
SCALE: 3/8" = 1'-0"



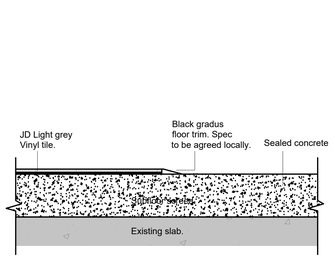
GENERAL NOTES
A. COORDINATE WITH EQUIPMENT SUPPLIER/INSTALLER.

3 DROP CORD FURNITURE FEED JD MCW
SCALE: 1/4" = 1'-0"

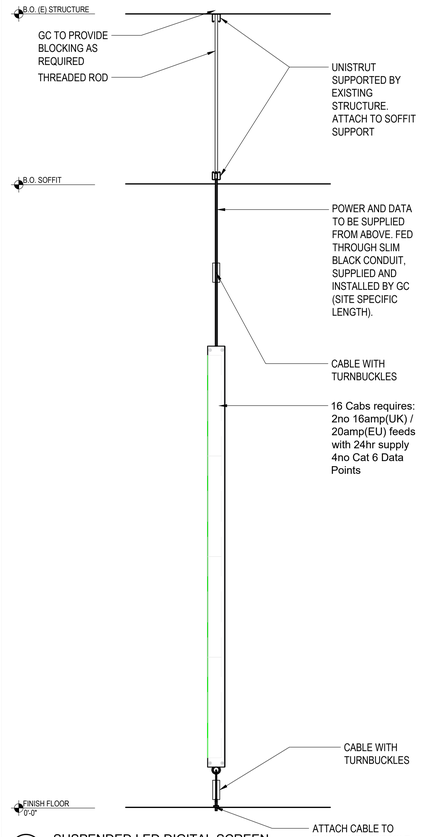


18 DOOR THRESHOLD CONCRETE TO RECESSED ENTRY MAT
SCALE: 3" = 1'-0"

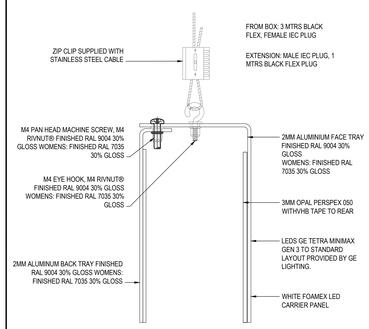
14 NOT USED
SCALE: N.T.S.



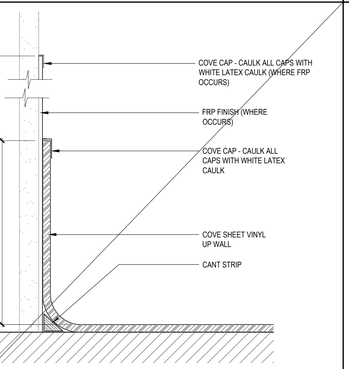
10 VINYL TILE TO BACK BOH SEALED CONCRETE
SCALE: 3" = 1'-0"



5 SUSPENDED LED DIGITAL SCREEN
SCALE: 1" = 1'-0"

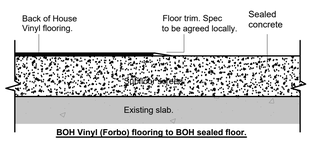


2 SUSPENDED GENDER SIGNAGE (NON-ILLUM)
SCALE: 1/4" = 1'-0"



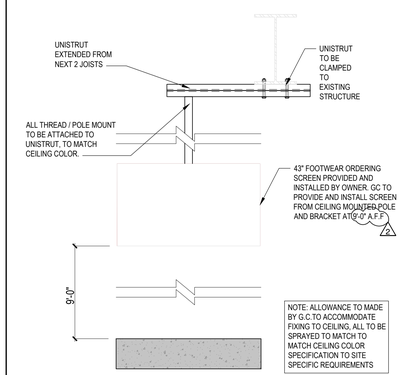
17 SHEET VINYL COVE BASE
SCALE: 6" = 1'-0"

13 NOT USED
SCALE: N.T.S.



BOH Vinyl (Forbo) flooring to BOH sealed floor.

9 BOH VINYL FLOORING TO SEALED CONCRETE
SCALE: 3" = 1'-0"



1 FOOTWEAR ORDERING SCREEN POLE MOUNT
SCALE: 3/4" = 1'-0"

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INDIANAPOLIS, IN 46235

Revisions:

DD SET	06.16.2025
CD SET	07.07.2025
2 PC RESPONSE 1	07.30.2025
1 LL COMMENTS	09.17.2025
2 PC RESPONSE 2	09.17.2025
3 PC RESPONSE 3	10.17.2025
4 IFC SET	10.27.2025

No. Description	Date
Project No.:	25.350
Drawn By:	ZG
Reviewed By:	BV
Scale:	AS NOTED
Date:	05.23.2025
Filename:	
Sheet Title:	

TYPICAL
INTERIOR DETAILS

Sheet #:
A10.6

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STRUCTURAL GENERAL NOTES

- GENERAL

A. THESE DRAWINGS ARE COPY RIGHTED INSTRUMENTS OF SERVICE OF HOHBACH-LEWIN, INC. FOR USE ONLY ON THIS PROJECT.

B. CONTRACTOR RESPONSIBILITY - CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, SEQUENCES AND SAFETY PRECAUTIONS, INCLUDING BUT NOT LIMITED TO SHORING AND TEMPORARY BRACING.

C. DIMENSIONS - USE WRITTEN DIMENSIONS ONLY. VERIFY ALL DIMENSIONS AT JOB SITE BEFORE COMMENCING WORK AND REPORT ANY DISCREPANCIES. WHERE NO DIMENSIONS ARE PROVIDED, OBTAIN CLARIFICATION PRIOR TO PROCEEDING WITH WORK. DO NOT SCALE DRAWINGS.

D. COORDINATION - OPENINGS THROUGH WALLS AND FLOORS FOR MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE COORDINATED BY CONTRACTOR AND CONSTRUCTED PER TYPICAL DETAILS SHOWN IN THESE DOCUMENTS. NO MECHANICAL OR ELECTRICAL SYSTEM COMPONENTS SHALL BE EMBEDDED IN SLABS OR WALLS UNLESS SPECIFICALLY DETAILED IN THESE DOCUMENTS.

E. OMISSIONS AND CONFLICTS - OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE CONSTRUCTION DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM. IF CERTAIN FEATURES ARE NOT FULLY DELINEATED IN THE CONSTRUCTION DOCUMENTS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE DELINEATED.

F. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.

G. THERE SHALL BE NO CHANGE IN SIZE OR DIMENSION OF A STRUCTURAL MEMBER, NOR SHALL ANY OPENINGS BE MADE IN ANY STRUCTURAL MEMBER, WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.

H. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON THE STRUCTURE. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE STRUCTURE AT THE TIME THE LOADS ARE IMPOSED.

I. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS.

J. SEE DRAWINGS OTHER THAN STRUCTURAL FOR: TYPES OF FLOOR FINISH AND THEIR LOCATION, DEPRESSIONS IN FLOOR SLABS, OPENINGS IN WALLS AND FLOORS REQUIRED BY ARCHITECTURAL AND MECHANICAL FEATURES, AND ROADWAY PAVING, WALKS, RAMPS, STAIRS, CURBS, ETC..

K. TYPICAL DETAILS - DETAILS NOTED AS TYPICAL ARE APPLICABLE WHERE SPECIFIED ON THE STRUC DRAWINGS AND WHENEVER THE CONDITION OCCURS THROUGHOUT THR PROJECT, INCLUDING LOCATIONS WHERE THE DETAIL IS NOT EXPLICITLY SPECIFIED OR REFERENCED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY LOCATIONS WHERE TYPICAL DETAILS ARE APPLICABLE PRIOR TO CONSTRUCTION.

- EXISTING CONSTRUCTION/ CONDITIONS:

A. SHORING: THE CONTRACTOR SHALL PROVIDE SHORING WHEREVER NECESSARY TO ALLOW INSTALLATION OF THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE DESIGN, INSTALLATION AND MAINTENANCE OF ALL SHORING AND TEMPORARY WORK REQUIRED THROUGHOUT THE PROGRESS OF THE WORK.

B. EXISTING CONSTRUCTION: EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS WAS OBTAINED FROM LIMITED VISUAL OBSERVATIONS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD OF ALL EXCEPTIONS AND RECEIVE DIRECTION PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.

C. DEMOLITION: THE REMOVAL, CUTTING, DRILLING, ETC. OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE AND WITH APPROPRIATE TOOLS IN ORDER TO NOT JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING. SEE ARCHITECTURAL DRAWINGS FOR REQUIRED DEMOLITION.

- DESIGN BASIS

A. APPLICABLE CODE: CALIFORNIA BUILDING CODE (CBC), 2022 EDITION.

B. VERTICAL LOAD - LIVE LOADS:
   1. ROOF: VARIES WITH SLOPE (20 psf max.)

C. LATERAL LOADS:
   1. DESIGN WIND CRITERIA: PER ASCE 7-16
      BASIC DESIGN WIND SPEED: 96 mph
      WIND EXPOSURE: C
   2. DESIGN SEISMIC CRITERIA:
      SITE CLASS: D (DEFAULT)
      S_{DS} = 0.718g
      S_{D1} = 0.417g
      COMPONENT IMPORTANCE FACTOR, I_p = 1.0
      SEISMIC DESIGN CATEGORY= D
      RISK CATEGORY = II
      COMPONENT RESPONSE MODIFICATION FACTOR, R_p = 6.0
      COMPONENT AMPLIFICATION FACTOR, a_p = 2.5
      SEISMIC DESIGN FORCE, F_p= 0.36W_p(STRENGTH) - HVAC

- STEEL

A. STRUCTURAL STEEL TO BE SUPPLIED DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.

B. U.O.N. STEEL SHALL BE AS FOLLOWS:
   1. WIDE FLANGE SHAPES: ASTM A992
   2. HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE B, U.O.N.
   3. PIPES: ASTM A53, GR. B
   4. OTHER SHAPES AND PLATES: ASTM A36, ASTM A572 GR. 50 AS NOTED.
   5. BOLTS: ASTM A307
   6. HIGH STRENGTH BOLTS: ASTM F3125 GRADE A325, U.O.N.
   7. THREADED RODS: ASTM A36, U.O.N.
   8. ANCHOR RODS: F1554 GR. 36 TYP., U.O.N.
   9. WELDING ELECTRODES: E-70xx U.O.N.
   10. WELDED STUDS: FLUX FILLED HEADED STUDS CONFORMING TO ASTM A108 BY NELSON OR EQUAL.

   *NOTE: REFERENCE TYPICAL DETAIL SHEETS FOR OTHER GRADES OF STEEL REQUIRED AT SEISMIC LOAD RESISTING SYSTEMS (SLRS) WHERE OCCURS.

C. WELDING TO CONFORM TO AWS AND TO BE PERFORMED BY CERTIFIED WELDERS.

D. BUTT WELDS ARE TO BE COMPLETE PENETRATION U.O.N. ALL FILLET WELDS SHOWN ARE MINIMUM REQUIRED BY STRESS. INCREASE WELDS TO A.I.S.C. MINIMUM SIZES BASED ON THICKNESS OF MATERIAL JOINED U.O.N.

E. STEEL BEAMS ARE EQUALLY SPACED BETWEEN DIMENSION POINTS OR GRID LINES, U.O.N.

F. STEEL NOT RECEIVING FIRE PROOFING SHALL BE SHOP PRIMED.

G. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIP ZINC GALVANIZED U.O.N.

H. NON SHRINK GROUT: 7500 psi COMPRESSIVE STRENGTH, NON METALLIC CONFORMING TO ASTM C1107. MASTERFLOW 928 OR EQUAL.

I. INTUMESCENT PAINT TO MEET REQUIREMENTS OF ASTM E119.

- WOOD

A. FRAMING LUMBER - DOUGLAS FIR U.O.N.;
   1. JOISTS AND RAFTERS: NO. 1
   2. POSTS, BEAMS, AND HEADERS: NO. 1
   3. STUDS, PLATES, BLOCKS, LIGHT FRAMING AND MISC: NO. 2
   4. ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY TO BE PRESERVATIVE TREATED.
   5. ALL LUMBER SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19% PRIOR TO FINAL FRAMING INSPECTION.

B. SHEATHING:
   1. FLOOR SHEATHING: 3/4 INCH APA RATED 48/24 EXPOSURE 1 PLYWOOD. PLY MIN. WITH TONGUE AND GROOVE EDGES GLUED TO SUPPORT, U.O.N. MINIMUM SHEET DIMENSION FOR PANEL SHALL BE 24"

C. FRAMING HARDWARE: AS MANUFACTURED BY SIMPSON OR APPROVED EQUAL. SIMPSON DESIGNATIONS USED.

D. NAILS: COMMON WIRE GAGE U.O.N. NAILING TO CONFORM TO CBC TABLE 2304.10.2 U.O.N.

E. BOLTS: ASTM A307. PROVIDE WASHER UNDER HEADS AND NUTS.

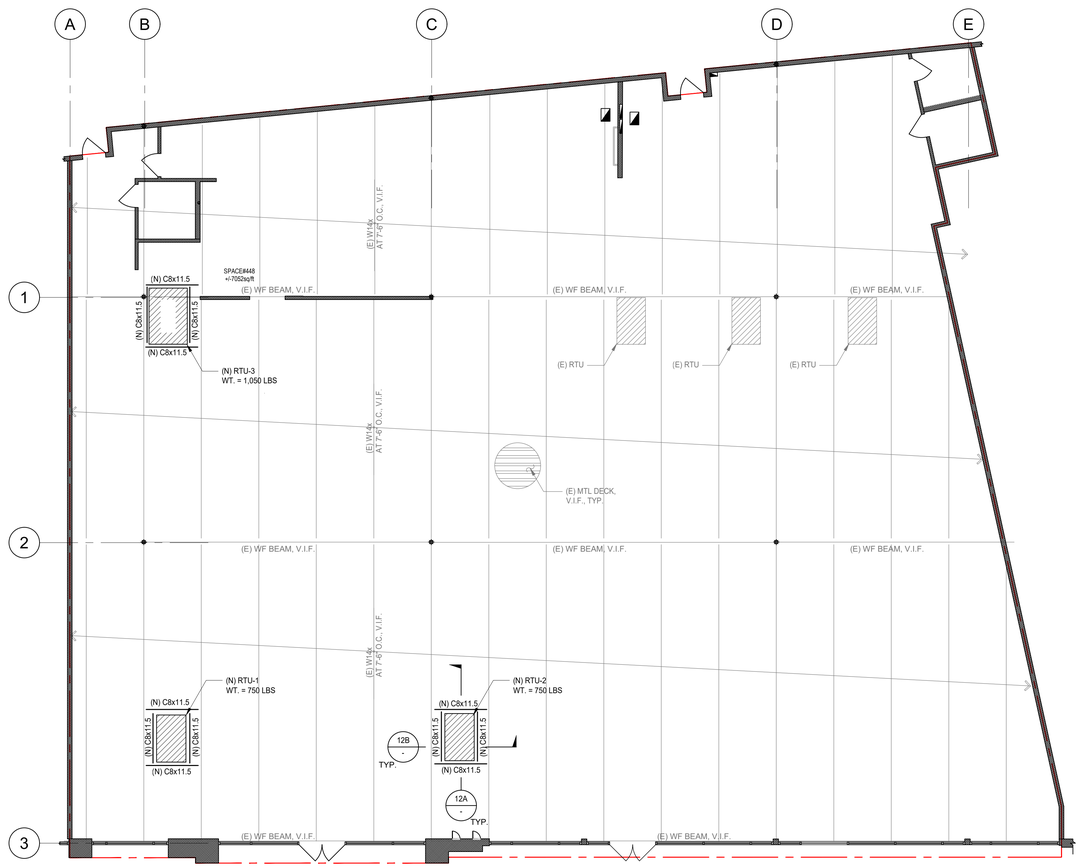
F. PROVIDE LATERAL SUPPORT FOR BEAMS, JOISTS AND RAFTERS AT ENDS AND POINTS OF BEARING.

G. LAG SCREWS PER ANSI/ ASME STANDARD B18.2.1 PROVIDE LEAD HOLE SAME DIAMETER AND DEPTH AS SHANK AND THEN DRILL HOLE 60% - 70% OF SHANK DIAMETER FOR THREADED PORTIONS.

H. PRESSURE TREATED LUMBER:
   1. PRESSURE TREATED LUMBER SHALL BE AWPA STAMPED AMMONIACAL COPPER QUAT (ACQ), COPPER AZOLE (CA), OR BORATE TREATED PRESERVATIVES IN ACCORDANCE WITH AWPA STANDARD U1 TO THE REQUIREMENTS OF USE CATEGORY 2 (UC2) U.O.N. ALL EXTERIOR EXPOSED LUMBER SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA U1 TO THE REQUIREMENTS OF USE CATEGORY 4A (UC4A).
   2. ALL PRESERVATIVE TREATED LUMBER SHALL BE FIELD-APPLIED WITH PRESERVATIVE WHERE CUT AND DRILLED ON SITE WITH COPPER NAPHTHENATE (2% COPPER AS METAL).
   3. USE HOT DIPPED GALVANIZED HARDWARE, IE. BOLTS, NAIL, ETC. FOR ALL ATTACHMENT TO PRESERVATIVE TREATED MEMBERS U.O.N.
   4. ELECTROPLATED ZINC STEEL FASTENERS, INCLUDING NUTS AND WASHERS, IN WOOD TREATED WITH SBX/ DOT OR ZINC BORATE IN ACCORDANCE WITH AWPA U1 USE CATEGORY 2 AND BELOW SHALL BE PERMITTED PER CBC SECTION 2304.10.6.1 FOR INTERIOR, DRY CONDITIONS.

ROOF FRAMING PLAN NOTES:

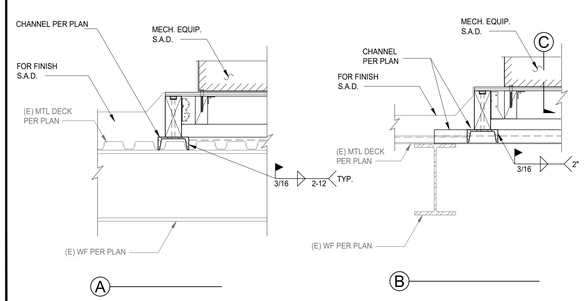
1. SEE SHEET S100 FOR STRUCTURAL GENERAL NOTES.
2. GENERAL CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AS SHOWN ON THIS PLAN. CONTACT HOHBACH-LEWIN, INC. IF ANY DISCREPANCIES ARE ENCOUNTERED.
3. NOTIFY HOHBACH-LEWIN, INC. OF ANY ADDITIONAL MECHANICAL EQUIPMENT AND SPRINKLERS TO BE HUNG FROM ROOF. ALL MECHANICAL EQUIPMENT AND SPRINKLERS SHALL BE REVIEWED AND APPROVED BY HOHBACH-LEWIN, INC. PRIOR TO INSTALLATION.
4. EXACT LOCATIONS OF ALL MECHANICAL UNITS TO BE COORDINATED WITH DRAWINGS OTHERS THAN STRUCTURAL DRAWINGS FOR DEPRESSIONS, CURBS, MECHANICAL, ELECTRICAL AND SHAFT OPENINGS, ETC.
5. SEE DRAWINGS OTHER THAN STRUCTURAL FOR DEPRESSIONS, CURBS, MECHANICAL, ELECTRICAL, SHAFT OPENINGS, ETC.
6. SEE ARCHITECTURAL DRAWING FOR INFORMATION NOT SHOWN OR NOTED.

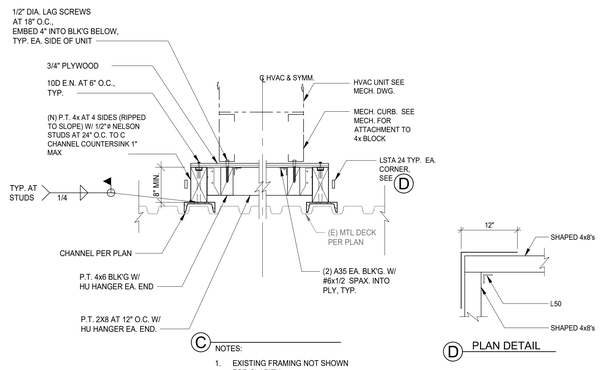


ROOF FRAMING PLAN

1/8"=1'-0"

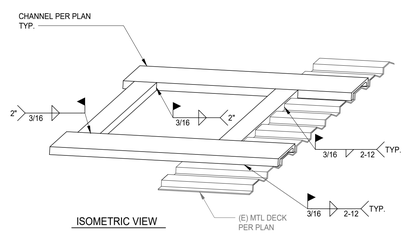
NOTES:
1. ALL EXPOSED LUMBER SHALL BE PRESSURE TREATED. SEE SPEC'S.
2. SEE DET. 4/- FOR INFO NOT SHOWN OR NOTED





NOTES:
1. EXISTING FRAMING NOT SHOWN FOR CLARITY.

PLAN DETAIL



ISOMETRIC VIEW

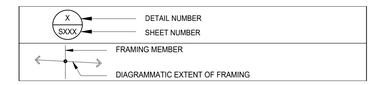
12 TYPICAL HVAC SUPPORT FRAMING N.T.S.

4 TYPICAL CHANNEL CONNECTIONS N.T.S.

STRUCTURAL SHEET INDEX

S100	STRUCTURAL GENERAL NOTES, PLAN, AND DETAILS

SYMBOLS



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A Project for:

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LAS AMERICAS PREMIUM OUTLETS

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1

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909 Montgomery Street, Suite 260
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PORTFOLIO REFERENCE ONLY

Client:

JD SPORTS

3308 N. MITTHOEFFER ROAD
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STRUCTURAL GENERAL NOTES, PLAN, & DETAILS

Sheet #:

S100

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MAINTENANCE CHECK- LIST FOR EXISTING HVAC UNITS

1. CHEMICALLY CLEAN CONDENSER COILS.
2. LUBE ALL BEARINGS AND LINKAGES AS REQUIRED.
3. CHECK ALL MOTORS AND DRIVES.
4. REPLACE ALL FAN BELTS.
5. CHECK OIL LEVELS WHERE POSSIBLE.
6. CHECK REFRIGERANT CHARGES.
7. VISUALLY INSPECT ALL SYSTEMS FOR REFRIGERANT, OIL OR WATER LEAKS.
8. CHECK OPERATING PRESSURES AND TEMPERATURES ON COOLING EQUIPMENT.
9. CHECK CONTROL SETTINGS.
10. CHECK OPERATION OF SAFETY CONTROLS.
11. CHECK GENERAL OPERATION OF EQUIPMENT.
12. CHECK AIR COOLED CONDENSERS FOR DIRT.
13. CHECK ALL SEALS AND PACKING.
14. CHECK STARTER CONTACT POINTS.
15. CHECK AND TIGHTEN ELECTRICAL CONNECTIONS.
16. CHECK OPERATION OF CYLINDER UNLOADERS.
17. CHECK SOLENOID AND EXPANSION VALVES FOR CORRECT OPERATION.
18. CHECK ALL DAMPERS FOR PROPER POSITION AND OPERATION.
19. CALIBRATE CONTROLS AS REQUIRED.
20. CHECK VOLTAGE AND AMPERAGE OF MAIN EQUIPMENT.
21. CHANGE FILTERS. FILTERS MUST BE PLEATED AND MINIMUM MERV 8 RATING.
22. CHECK CONDENSATE DRAINS.
23. CHECK LOW AMBIENT CONTROLS AND OPERATIONS.
24. CHECK FANS AND BLOWERS FOR PROPER POSITION AND SET SCREW TIGHTNESS.
25. INSPECT, REPAIR OR REPLACE OUTDOOR DUCTS AS NEEDED.
26. SEAL ROOF AROUND EXISTING DUCTS.
27. INSPECT AND REPAIR FILTER RACK TO PERMIT REMOVAL OF FILTER WITHOUT SPECIAL TOOLS.
28. AT THE START OF CONSTRUCTION, MECHANICAL CONTRACTORS SHALL PERFORM A COMPLETE DIAGNOSIS ON ALL EXISTING HVAC UNITS AND SUBMIT A FULL WRITTEN REPORT TO OWNER/CLIENT SHOWING WHAT NEEDS TO BE REPAIRED IN ORDER FOR ALL HVAC UNITS TO OPERATE AT PEAK PERFORMANCE CONDITION.

DESIGN CONDITIONS

LOCATION: SAN YSIDRO, CA

OUTSIDE: SUMMER: 74°F DB / 61°F WB
WINTER: 38°F DB
INSIDE: SUMMER: 74°F (MAXIMUM) 50% RH.
WINTER: 70°F (MINIMUM).

TEMPERATURE SETTINGS:

OCCUPIED COOLING
74°F 7:30AM - 10:00PM MONDAY-SATURDAY
8:00AM - 8:00PM SUNDAY
UNOCCUPIED COOLING
84°F 10:00PM - 7:30AM MONDAY-SATURDAY
8:00PM - 8:00AM SUNDAY
OCCUPIED HEATING
70°F 7:30AM - 10:00PM MONDAY-SATURDAY
8:00AM - 8:00PM SUNDAY
UNOCCUPIED HEATING
60°F 10:00PM - 7:30AM MONDAY-SATURDAY
8:00PM - 8:00AM SUNDAY

HVAC GENERAL NOTES

1. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMIT FEES, INSPECTIONS, AND LICENSES REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
2. CONTRACTOR MUST BE REGISTERED, HAVE NECESSARY LICENSES, OBTAIN NECESSARY PERMITS, AND HAVE CONSENT FROM ALL GOVERNMENTAL AGENCIES TO CARRY OUT THE WORK OF THE CONTRACT.
3. ALL WORK AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH CURRENT SMACNA STANDARDS, CURRENT ASHRAE GUIDELINES, AND ALL APPLICABLE STATE AND LOCAL BUILDING CODES.
4. CONTRACTOR SHALL REMOVE AND HAUL AWAY FROM THE PREMISES ALL UNUSED MATERIALS AND DEBRIS RESULTING FROM THE PERFORMANCE OF THE CONTRACT AND SHALL BEAR THE COST OF DISPOSAL.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING OF WALLS, ROOF, AND FLOORS, INCLUDING SAW CUTTING AND CORE DRILLING. ANY CUTTING AND DRILLING REQUIRED OF STRUCTURAL ELEMENTS THAT IS NOT SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE OWNERS REPRESENTATIVES ATTENTION PRIOR TO PERFORMING THE WORK. CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS AND SIZES OF SUCH A CUTTING AND DRILLING FOR APPROVAL. CONTRACTOR SHALL COORDINATE ALL WORK PERFORMED BY OTHERS WITH GENERAL CONTRACTOR.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO SUBMITTING THEIR BID AND TO HAVE EXAMINED AND FAMILIARIZED THEMSELVES WITH THE SITE CONDITIONS. THEY SHALL COMPARE THE DRAWINGS AND SPECIFICATIONS WITH THE RESULTS OF THEIR EXAMINATION OF THE SITE AND CONFIRM THAT ALL REQUIREMENTS FOR COMPLETE H.V.A.C. MAY BE FULFILLED. NO EXTRA PAYMENTS WILL BE ALLOWED TO THE H.V.A.C. CONTRACTOR DUE TO UNFAMILIARITY WITH THE SITE CONDITIONS.
7. CONTRACTOR SHALL SUBMIT BID BASED ON THE DRAWINGS, AND PROVIDE ALTERNATE BID FOR VALUE-ENGINEERED COST SAVINGS. CONTRACTOR SHALL EVALUATE DUCT CONSTRUCTION FOR AIR DISTRIBUTION MAIN TRUNKS AND PROVIDE VALUE-ENGINEERED ALTERNATE FOR COST SAVINGS TO THE OWNER.
8. THE TENANT RESERVES THE RIGHT TO ACCEPT AND/OR REJECT ANY OR ALL BIDS.
9. TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE MATERIALS BEFORE, DURING, AND AFTER INSTALLATION. IN THE EVENT OF DAMAGE, IMMEDIATELY REPAIR ALL DAMAGED AND DEFECTIVE WORK TO THE APPROVAL OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
10. AS BUILT DRAWINGS SHOWING DIMENSIONS AND LOCATIONS OF PIPES, DUCTS, AND EQUIPMENT SHALL BE SUBMITTED TO THE ARCHITECT, ENGINEER, TENANT, AND OWNER AT CONCLUSION OF CONSTRUCTION.
11. THE ARCHITECT/ENGINEER SHALL HAVE THE RIGHT TO ACCEPT AND/OR REJECT MATERIALS, EQUIPMENT, AND/OR WORKMANSHIP, AND SHALL APPROVE ONLY WHEN THE CONTRACTOR HAS COMPLIED WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
12. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO ORDERING OR INSTALLING EQUIPMENT OR MATERIALS. SHOP DRAWINGS SHALL CLEARLY IDENTIFY SUBSTITUTIONS ON EQUIPMENT AND MATERIALS, AND SHALL CLEARLY IDENTIFY ALL PERTINENT DATA TO SUBSTANTIATE THE EQUALITY OF THE PRODUCT. THIS CONTRACTOR SHALL SUBMIT TO-SCALE DUCTWORK SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
13. WORKMANSHIP SHALL BE OF THE BEST QUALITY AND ONLY COMPETENT MECHANICS, SKILLED IN THEIR RESPECTIVE TRADES, SHALL BE EMPLOYED.
14. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THEIR WORK WITH ALL OTHER TRADES. THIS INCLUDES COORDINATING THE LOCATION AND SIZE OF ALL OPENINGS, LOCATIONS OF EQUIPMENT, PADS, AND CHANGES IN ELEVATION OF DUCTWORK, PIPING, AND OTHER EQUIPMENT.
15. ALL MECHANICAL TRIMFINISHES SHALL BE COLORED AS PER ARCHITECT REQUIREMENTS. CONTRACTOR SHALL VERIFY COLOR REQUIREMENTS WITH THE ARCHITECT PRIOR TO ORDERING AIR INLETS/OUTLETS, WALL LOUVERS, AND THERMOSTATS.
16. COORDINATE THE LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL LIGHTING LAYOUT, AND ARCHITECTURAL ROOM ELEVATIONS.
17. FIELD-BUILT SLEEPERS OR PLATFORMS FOR ROOF-MOUNTED EQUIPMENT, ROOF PENETRATIONS, CUTTING, AND PATCHING BY GENERAL CONTRACTOR.
18. LINE VOLTAGE WIRING, CONDUIT, DISCONNECT SWITCHES, AND FINAL TERMINATIONS BY ELECTRICAL CONTRACTOR. LOW VOLTAGE WIRING, CONDUIT, AND FINAL TERMINATIONS BY MECHANICAL CONTRACTOR.
19. ALL LINE VOLTAGE CONTROLS INCLUDING STARTERS, RELAYS, CONTACTORS, TRANSFORMERS, ETC. SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
20. CONDENSATE DRAIN AND GAS PIPING SHALL BE BY PLUMBING CONTRACTOR.
21. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND CONTROL DEVICES FOR THE COMPLETE INSTALLATIONS OF AN AUTOMATIC TEMPERATURE CONTROL SYSTEM.
22. CONTRACTOR SHALL INSTALL ROOFTOP EQUIPMENT AT A MINIMUM OF 10 FEET FROM ANY EDGE OF THE BUILDING WHEN PARAPET WALLS ARE LOWER THAN 42" ABOVE ROOF DECK. WHERE SUCH INSTALLATION IS NOT POSSIBLE, CONTRACTOR SHALL PROVIDE A 42" HIGH SAFETY RAIL.
23. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
24. ALL NEW H.V.A.C. EQUIPMENT, DUCTWORK, PIPING, VALVES, AND CONTROL COMPONENTS SHALL BE PLACED AND LABELED WITH A PERMANENT LAMINATED PLASTIC LABEL. SUBMIT LABELING TO ENGINEER FOR APPROVAL AS A FORMAL SUBMITTAL.
25. CONNECT MAIN DUCT TO AIR CONDITIONING UNIT WITH WEATHERPROOF FLEXIBLE CONNECTION. PROVIDE SUN SHIELD OVER ENTIRE FLEXIBLE CONNECTION IF EXPOSED TO WEATHER. FLEXIBLE CONNECTIONS SHALL BE 12" IN LENGTH.
26. CONTRACTOR SHALL FURNISH TO TENANT AND PLACE INTO STORAGE FOR TENANT ONE COMPLETE SET OF REPLACEMENT FILTERS AND DRIVE BELTS FOR ALL NEW H.V.A.C. EQUIPMENT ON THIS PROJECT.
27. FURNISH AND INSTALL FIRE, SMOKE, OR COMBINATION FIRE/SMOKE DAMPERS WHERE SHOWN ON PLANS OR AS REQUIRED FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL COORDINATE WITH FIRE-RATED CEILING AREAS AND WALLS AS INDICATED ON ARCHITECTURAL DRAWINGS AND LOCAL CODE REQUIREMENTS. THIS NOTE SHALL TAKE PRECEDENCE OVER ANY OMISSIONS ON THE DRAWINGS.
28. CONTRACTOR SHALL FURNISH AND INSTALL DUCT ACCESS DOORS AND CEILING ACCESS PANELS AT LOCATIONS AS NECESSARY TO SERVICE DAMPERS TO PROVIDE MAINTENANCE FOR EQUIPMENT. ALL CEILING ACCESS PANEL LOCATIONS SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION.
29. CONTRACTOR SHALL PROVIDE & INSTALL DUCT MOUNTED SMOKE DETECTORS IN AIR DISTRIBUTION SYSTEMS WHERE AIRFLOW IS GREATER THAN 2000 CFM. MECHANICAL CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO SHUT DOWN FAN, AND ELECTRICAL/FIRE ALARM CONTRACTOR SHALL WIRE IT TO THE FIRE ALARM SYSTEM FOR SUPERVISION AND SHUTDOWN.
30. CONTRACTOR SHALL FURNISH AND INSTALL SUPPORTS, HANGERS, UPPER & LOWER ATTACHMENTS, AND ANCHORS REQUIRED TO INSTALL ALL MATERIALS AND EQUIPMENT FURNISHED AND INSTALLED UNDER THIS CONTRACT. DUCTWORK AND PIPING SHALL NOT BE SUPPORTED FROM THE ROOF DECK. UPPER ATTACHMENTS FOR HANGING DUCT SHALL BE SUPPORTED FROM BEAMS, JOISTS OR SUPPLEMENTARY STRUCTURAL MEMBERS PROVIDED BY MECHANICAL CONTRACTOR.
31. PROVIDE TURNING VANES AT ALL MITERED ELBOWS, OPPOSED BLADE BALANCING DAMPERS WITH LOCKING QUADRANTS AT BRANCH DUCTS, VOLUME DAMPERS, SPLITTER DAMPERS, AND ANY OTHER APPLICABLE DEVICES NECESSARY FOR MINIMUM DUCT RESISTANCE AND PROPER AIR BALANCING. ALL DAMPERS OR SPLITTERS SHALL BE SUFFICIENTLY STIFFENED TO PREVENT NOISE OR VIBRATION AND SHALL BE FITTED WITH AN ACCESSIBLY-LOCATED ADJUSTER.
32. CONTRACTOR SHALL FURNISH AND INSTALL DAMPERS, LINKAGES, AND ACTUATORS REQUIRED FOR AIR FLOW CONTROL SYSTEM. DAMPERS SHALL BE OPPOSED BLADE WITH RUBBER GASKETS. ACTUATORS SHALL BE "BELIMO" NO-LINKAGE TYPE OR "HONEYWELL" WITH LINKAGE. ACTUATOR MOTORS SHALL BE 24 VOLT WITH SPRING RETURN AND MANUAL OVERRIDE FOR EMERGENCY.
33. ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS. DUCTWORK SHALL BE INSULATED OR LINED AS SHOWN ON DRAWINGS. ALL DUCTWORK EXPOSED ON ROOF SHALL BE INTERNALLY LINED UNLESS OTHERWISE INDICATED OR SPECIFIED.
34. ALL SUPPLY AND RETURN AIR DUCTWORK CONCEALED ABOVE CEILINGS SHALL BE INSULATED AND WRAPPED WITH TWO INCH FIBERGLASS INSULATION WITH FOIL FACED VAPOR BARRIER. REFRIGERANT SUCTION PIPING SHALL BE INSULATED WITH ARMAFLEX AND JACKETED WHEN EXPOSED TO THE OUTDOORS. CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH ARMAFLEX.
35. CONTRACTOR TO PROVIDE 1" ACOUSTICAL FIBERGLASS DUCT LINER FOR APPROXIMATELY 10'-0" FROM UNITS ON BOTH SUPPLY AND RETURN DUCTS.
36. ROUND AND RECTANGULAR DUCTWORK ARE INTERCHANGEABLE TO AVOID OBSTRUCTIONS IF CROSS-SECTIONAL AREAS ARE EQUIVALENT. CONTRACTOR IS TO VERIFY THE EXACT AVAILABLE CEILING SPACE AND INTERCHANGE THE DUCT SIZE TO FIT THE CEILING SPACE WITHOUT ADDITIONAL COST.
37. INSTALL VOLUME CONTROL DAMPERS AT EACH SUPPLY DIFFUSER AND WHERE NECESSARY TO CONTROL AIR FLOW IN THE DUCT SYSTEMS.
38. EXHAUST TERMINATIONS SHALL BE MINIMUM 10'-0" AWAY FROM OR 3'-0" ABOVE ANY FRESH AIR INTAKE, OPERABLE WINDOWS, AND DOORS, AND MINIMUM 10'-0" ABOVE GRADE.
39. PROVIDE BACKDRAFT DAMPER FOR ALL EXHAUST AIR INLETS UNLESS OTHERWISE NOTED PER CODE.
40. PROVIDE ALL FRESH AIR INTAKES AND EXHAUST OUTLETS WITH HOOD WITH 1/4" GALVANIZED MESH SCREENS.
41. ALL CEILING DIFFUSERS ARE 4-WAY UNLESS OTHERWISE NOTED. DIFFUSERS AND REGISTERS SHALL BE TITUS, KRUEGER, ADP, METALAIRE, ANEMOSTAT OR EQUAL.
42. ALL EXPOSED MATERIALS WITHIN A RETURN AIR PLENUM SHALL BE NON-COMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
43. CONTRACTOR IS RESPONSIBLE FOR SIZING REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS, FIELD MEASURED TOTAL EQUIVALENT LENGTHS, AND VERTICAL LIFTS, AND PROVIDE ALL NECESSARY COMPONENTS.
44. ALL MATERIALS AND EQUIPMENT PROVIDED AND/OR INSTALLED UNDER THIS CONTRACTOR SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF BENEFICIAL OCCUPANCY. ANY DEFECTS IN MATERIALS AND/OR WORKMANSHIP OCCURRING DURING TIME PERIOD SHALL BE REPAIRED OR REPLACED BY THIS CONTRACTOR AT NO COST TO THE OWNER. WARRANTY FOR COMPRESSORS SHALL BE (5) YEARS, AND WARRANTY FOR HEAT EXCHANGERS SHALL BE (10) YEARS.
45. CONTRACTOR SHALL SUBMIT A COMPLETE BALANCE REPORT FOR APPROVAL. THE REPORT SHALL INCLUDE THE REQUIREMENTS DESCRIBED IN THE TEST AND BALANCE SPECIFICATION SECTION. CONTRACTOR SHALL FURNISH SEPARATE BALANCE REPORTS FOR GENERAL H.V.A.C. SYSTEMS AND KITCHEN EXHAUST/MAKEUP AIR SYSTEMS, IF APPLICABLE. THERE SHOULD BE NO OUTSTANDING ITEMS ON THE REPORTS PRIOR TO CITY FINAL INSPECTION.

EXISTING CONDITIONS/SCOPE NOTES

CONTRACTOR SHALL CLOSELY INSPECT AND VERIFY ALL EXISTING CONDITIONS AND INCLUDE IN BID ALL WORK REQUIRED TO DELIVER DESIGN INTENT. COORDINATE ALL ROOF-TO-SPACE PENETRATIONS WITH LANDLORD AND REQUEST ADDITIONAL SHELL INFORMATION FROM LANDLORD AS NECESSARY. NO CHANGE ORDER WILL BE ALLOWED.

SHEET INDEX

DRAWING NUMBER	DRAWING TITLE
M-001	MECHANICAL LEGEND, NOTES AND ABBREVIATIONS
M-002	MECHANICAL SPECIFICATIONS
M-003	MECHANICAL SCHEDULES
M-004	MECHANICAL COMPLIANCE
M-005	MECHANICAL COMPLIANCE
M-006	MECHANICAL COMPLIANCE
M-100	MECHANICAL DEMOLITION PLAN
M-101	MECHANICAL FLOOR PLAN
M-201	MECHANICAL ROOF PLAN
M-301	MECHANICAL DETAILS

LEGEND

SYMBOL & ABBREVIATION	DESCRIPTION
DET	DETAIL
DH	DUCT HEATER
DISCH	DISCHARGE
DMPR	DAMPER
DP	DEW POINT
DPS	DIFFERENTIAL PRESSURE SENSOR
DR	DRAIN
DUC	DOOR UNDERCUT
DWG	DRAWING
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECON	ECONOMIZER
ECU	EVAPORATIVE COOLING UNIT
EER	ENERGY ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
(E)	EXISTING
EFF	EFFICIENCY
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EH	ELECTRIC HEATER
EVAP	EVAPORATIVE COOLER
EWT	ENTERING WATER TEMPERATURE
EXCH	EXCHANGER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FC	FAN COIL UNIT
FD	FIRE DAMPER
FLEX	FLEXIBLE
FLR	FLOOR
FL SW	FLOW SWITCH
FLTR	FILTER
FPM	FEET PER MINUTE
FPT	FAN POWERED TERMINAL
FSD	FIRE SMOKE DAMPER
FSS	FLOW SENSING SWITCH
FURN, FAU	FURNACE AIR UNIT
GA	GAGE/GAUGE
GC	GENERAL CONTRACTOR
HP	HEAT PUMP
HSTAT	HUMIDISTAT
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HW	HOT WATER
HWP	HOT WATER PUMP
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HWT	HOT WATER TANK
HZ	FREQUENCY
ID	INSIDE DIAMETER
IN WC	INCHES, WATER COLUMN
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LVR	LOUVER
LWT	LEAVING WATER TEMPERATURE
MCA	MINIMUM CIRCUIT AMPACITY
MFR	MANUFACTURER
MECH	MECHANICAL
MOCP	MAXIMUM OVERCURRENT PROTECTION
(N)	NEW
NA	NOT APPLICABLE
NC	NOISE CRITERIA, NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA/OSA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
P	PUMP
PD	PRESSURE DROP
PH	PHASE
POC	POINT OF CONNECTION
PPM	PARTS PER MILLION
PREFAB	PRE-FABRICATED
PRV	PRESSURE REDUCING VALVE, POWER ROOF VENTILATOR
PSI	POUNDS PER SQUARE INCH
PTAC	PACKAGED TERMINAL AIR CONDITIONER
R	THERMAL RESISTANCE
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RM	ROOM
RPM	REVOLUTION PER MINUTE
RTU	ROOF TOP UNIT
REV	REVOLUTION, REVISION
RV	RELIEF VALVE
S/S	STAINLESS STEEL
SENS	SENSIBLE
SF	SAFETY FACTOR
SMK	SMOKE
STN	STRAINER
TCV	TEMPERATURE CONTROL VALVE
TDV	TRIPLE DUTY VALVE
TEMP	TEMPERATURE
TONS	TONS OF REFRIGERATION
TSTAT	THERMOSTAT
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VAV	VARIABLE AIR VOLUME
VSC	VARIABLE SPEED CONTROLLER
VVT	VARIABLE VOLUME TERMINAL
WB	WET BULB TEMPERATURE
WT	WEIGHT

LEGEND

SYMBOL & ABBREVIATION	DESCRIPTION
SA/SUP	SUPPLY AIR (RISE/DROP)
RA/RET	RETURN AIR DUCT (RISE/DROP)
EA/EXH	EXHAUST AIR DUCT (RISE/DROP)
CD/SR	CEILING DIFFUSER/SUPPLY REGISTER (ARROWHEAD REPRESENTS NUMBER OF THROW) (4-WAY TYPICAL IF NO ARROWS)
RR/RG	RETURN REGISTER/GRILLE
ER/EG	EXHAUST REGISTER/GRILLE
	RECTANGULAR DUCT ELBOW WITH TURNING VANES
FC	FLEXIBLE CONNECTION
MVD	MANUAL VOLUME DAMPER
FD	FIRE DAMPER
(L)	DUCT LINING (1" THICK UNLESS OTHERWISE NOTED)
	SINGLE LINE DUCT BRANCH TAKE-OFF
	DUCT TRANSITION (RECTANGULAR TO ROUND)
FLEX	FLEXIBLE DUCT
T-STAT	PROGRAMABLE THERMOSTAT
TS	TEMPERATURE SENSOR
HS	HUMIDITY SENSOR
S CO_2	CO_2 SENSOR
SD	DUCT SMOKE DETECTOR
F	FD FIRE DAMPER
FS	FSD COMBINATION FIRE/SMOKE DAMPER
Z	ZD ZONE DAMPER
CD	CD CONDENSATE DRAIN
Ø	DIA. DIAMETER
DL	DL DOOR LOUVER
UC	UC DOOR UNDERCUT (3/4" MINIMUM)
	POC POINT OF CONNECTION
M	FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.
E	FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
ME	FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.

SD-1 — (SD-SUPPLY DIFFUSER, RD-RETURN DIFFUSER, E-EXHAUST)
100 — AIR QUANTITY IN CFM

AC 1 — MECHANICAL EQUIPMENT DESIGNATION / DESIGNATED NUMBER

A/C , AC, ACU	AIR CONDITIONING UNIT
ADD	ADDITION
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFS	AIR FLOW SENSOR
AHU	AIR HANDLER UNIT
ALT	ALTERNATE
AMB	AMBIENT
AMP	AMPERE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ACCESS PANEL
AS	AIR SEPARATOR
AV	AIR VENT
BAPR	BAROMETRIC PRESSURE
BARO	BAROMETER
BBD	BOILER BLOW DOWN
BCV	BUTTERFLY CHECK VALVE
BDD	BACK DRAFT DAMPER
BFP	BACK FLOW PREVENTER
BFV	BACK FLOW VALVE
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BLR	BOILER
BP	BOILING POINT
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
BYP	BY PASS
CA	COMPRESSED AIR
CAV	CONSTANT AIR VOLUME
CB	CIRCUIT BREAKER
C/C,CC	COOLING COIL
CD	CONDENSATE DRAIN
CLG.	CEILING
CO2	CARBON DIOXIDE
CONN.	CONNECT/CONNECTION
CONT.	CONTINUATION
CONTR	CONTRACTOR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHKV	CHECK VALVE
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CKT	CIRCUIT
CLG	CEILING
CO	CARBON MONOXIDE, CLEAN-OUT
CO2	CARBON DIOXIDE
COEFF	COEFFICIENT
COL	COLUMN
COND	CONDENSER, CONDENSING
CONT	CONTINUOUS
COP	COEFFICIENT OF PERFORMANCE (HEATING)
CCP	COOLING COIL PUMP
CP	CONDENSATE PUMP
CT	COOLING TOWER
CTR	COOLING TOWER RETURN
CTS	COOLING TOWER SUPPLY
CU	CONDENSING UNIT
CV	CONTROL VALVE
CW	COLD WATER
CWP	COLD WATER PUMP
CWR	COLD WATER RETURN
CWS	COLD WATER SUPPLY
dB	DECIBEL
DB	DRY BULB TEMPERATURE
DCV	DEMAND CONTROLLED VENTILATION
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DEPT	DEPARTMENT

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MECHANICAL LEGEND, NOTES & ABBREVIATION

Sheet #:
M-001

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MECHANICAL SPECIFICATION

SECTION 1500 - HEATING, VENTILATION AND AIR CONDITIONING

1.00 - GENERAL

1.01 DESCRIPTION OF WORK

FURNISH AND INSTALL COMPLETE AND OPERATIONAL HVAC SYSTEM AS SHOWN ON THE DRAWING AND SPECIFIED HEREIN. WORK SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:

A. PACKAGED HEATING & COOLING ROOFTOP UNITS.

B. POWER VENTILATORS.

C. AIR DISTRIBUTION METAL DUCTS.

D. HYDRONIC PIPING.

E. HANGERS AND SUPPORTS FOR DUCTWORK, PIPING AND HVAC EQUIPMENT.

F. THERMAL AND ACOUSTIC INSULATION.

G. SEISMIC RESTRAINTS AND BRACING.

H. AUTOMATIC TEMPERATURE CONTROL SYSTEM.

H. DEMOLITION AND REMOVAL OF EXISTING HVAC EQUIPMENT AS REQUIRED.

1.02 RELATED WORK INCLUDED UNDER OTHER SECTIONS

A. FIRE PROTECTION, SECTION 15300.

B. PLUMBING, SECTION 15400.

C. LINE VOLTAGE AND POWER WIRING, ELECTRICAL SECTION 16000.

1.03 EXAMINATION OF SITE

VISIT SITE BEFORE SUBMITTING BID AND CHECK LOCATION OF ALL EXISTING CONDITIONS WHICH WILL AFFECT THIS WORK, VERIFY DIMENSIONS AND LOCATIONS SHOWN ON DRAWINGS AND COVER ALL COSTS. CONTRACTOR SHALL ASSUME REASONABLE VARIATIONS OR MINOR OMISSIONS AND SHALL COMPLETE PROPOSED WORK WITHOUT ADDITIONAL COST. FAILURE TO VISIT SITE WILL NOT LESSEN RESPONSIBILITY OR ENTITLE ADDITIONAL COMPENSATION FOR WORK NOT INCLUDED IN PROPOSAL.

1.04 DRAWINGS

THE ACCOMPANYING DRAWINGS SHALL BE CONSIDERED PART OF THESE SPECIFICATIONS. WORK AND MATERIALS SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS AND VICE VERSA SHALL BE EXECUTED AS IF SPECIFICALLY MENTIONED OR SHOWN IN BOTH. THE DRAWINGS SHALL BE CONSIDERED AS SCHEMATIC IN NATURE AND MINOR MODIFICATIONS OF THE WORK TO COMPLY WITH THE STRUCTURE AS FOUND SHALL BE MADE.

1.05 RULES AND REGULATIONS

A. ALL WORK AND MATERIAL SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE STATE FIRE MARSHAL AND OTHER APPLICABLE STATE AND LOCAL RULES AND REGULATIONS.

B. NOTHING IN THESE DRAWINGS OR SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

C. FURNISH WITHOUT ANY EXTRA CHARGE ANY ADDITIONAL MATERIAL AND LABOR WHEN REQUIRED TO COMPLY WITH THESE LAWS, ORDINANCES AND CODES REGARDLESS OF WHETHER SHOWN OR MENTIONED IN THESE SPECIFICATIONS OF DRAWINGS.

1.06 SUBMITTALS

A. SUBMIT FOR REVIEW A COMPLETE AND ALL-INCLUSIVE LIST OF EQUIPMENT AND MATERIALS PROPOSED FOR USE; (1) SOFT COPY, ACCOMPANIED BY MANUFACTURER'S DATA SHEETS. DATA SHALL BE FORWARDED IN A SINGLE PACKAGE WITHIN 15 DAYS AFTER AWARD OF CONTRACT. SUBMIT PORTABLE DOCUMENT FORMAT (PDF) AND ONE REPRODUCIBLE SHOP DRAWING SHOWING PROPOSED DUCTWORK INSTALLATION. INCLUDE SIZES, LOCATIONS AND OTHER REQUIRED INFORMATION TO COORDINATE INSTALLATION WITH OTHER TRADES.

B. WITHIN 5 DAYS AFTER AWARD OF CONTRACT, SUBMIT PDF & A COPY OF A LETTER STATING ANY MATERIALS THAT CONTRACTOR WISHES TO SUBSTITUTE, TO THE OWNER FOR APPROVAL. INCLUDE SUCH INFORMATION AS MANUFACTURER'S NAME, TYPE OF MATERIAL, CERTIFIED RATINGS, OVERALL APPEARANCE, AND NECESSARY INFORMATION TO EXPLAIN FUNCTION AND OPERATION OF MATERIAL. ALL PROPOSED SUBSTITUTIONS SHALL BE EQUAL IN QUALITY, DESIGN, UTILITY AND APPEARANCE TO MATERIAL, EQUIPMENT OR METHOD SPECIFIED.

1.07 AS-BUILT DRAWINGS

A SET OF HVAC PRINTS OR ACCESS TO A PRINT SHOP/PDFS WILL BE FURNISHED TO THE CONTRACTOR ON WHICH HE/SHE SHALL INDICATE THE INSTALLATION "AS-BUILT" AS THE WORK PROGRESSES. UPON COMPLETION OF THE WORK, A SET OF REPRODUCIBLE DRAWINGS SHALL BE OBTAINED FROM THE OWNER AT COST, AND ALL CHANGES AS NOTED ON THE RECORD SET OF PRINTS SHALL BE INCORPORATED THEREON. THIS SET OF REPRODUCIBLES, ALONG WITH ONE SET OF PDF'S, SHALL BE DELIVERED TO THE OWNER UPON COMPLETION AND BEFORE FINAL ACCEPTANCE OF THE PROJECT.

1.08 GUARANTEE

THE CONTRACTOR SHALL LEAVE THE ENTIRE INSTALLATION IN COMPLETE WORKING ORDER FREE FROM ANY DEFECTIVE MATERIAL, WORKMANSHIP OR FINISH. HE SHALL GUARANTEE TO REPAIR OR REPLACE, WITHOUT CHARGE, DEFECTS DUE TO FAULTY WORKMANSHIP OR MATERIAL FOR A PERIOD OF ONE YEAR FROM THE DATE OF FILING OF THE NOTICE OF COMPLETION.

1.09 OPERATION MANUALS AND OWNER INSTRUCTIONS

A. PROVIDE COMPLETE OPERATION AND MAINTENANCE MANUALS COVERING ALL MECHANICAL SYSTEMS AND EQUIPMENT THAT HAVE BEEN INSTALLED. A HARD COPY & SOFT COPY OF THE MANUAL SHALL BE PROVIDED TO AN OWNER.

B. PROVIDE INSTRUCTIONS TO STORE PERSONNEL AS TO OPERATION OF ALL HVAC EQUIPMENT AND THERMOSTATS. INSTRUCTION PERIOD TO COMMENCE FOR MINIMUM OF (2) HOURS AND SHALL BE SCHEDULED AT OWNER'S CONVENIENCE. ALSO, PROVIDE STORE MANAGER WITH OPERATION MANUAL.

1.10 CUTTING AND PATCHING

A. CONTRACTOR SHALL DO ALL CUTTING, DRILLING AND PATCHING WHICH MAY BE REQUIRED FOR THE INSTALLATION OF THE WORK UNDER THIS SECTION OF THE SPECIFICATIONS.

B. PATCHING SHALL BE OF THE SAME WORKMANSHIP, MATERIAL, AND FINISH AND SHALL MATCH ACCURATELY ALL SURROUNDING CONSTRUCTION IN A MANNER SATISFACTORY TO THE OWNER. NO CUTTING OF THE STRUCTURE SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE OWNER.

2.00 - DUCTWORK

2.01 MATERIALS

2.01.1 METAL AIR DUCTS

A. SHEET METAL RECTANGULAR AND ROUND DUCTWORK, PLENUMS, AND CASINGS SHALL BE FABRICATED IN STRICT ACCORDANCE WITH LATEST EDITION OF SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE" BASED ON INDICATED STATIC-PRESSURE CLASS.

B. MATERIAL FOR DUCTWORK SHALL BE HOT DIPPED GALVANIZED (G60) STEEL OF GAUGES SHOWN IN THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS. ALL DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH PRESSURE CLASSIFICATION SCHEDULES OF NO LESS THAN CLASS +/- 2" W.G., AND SHALL BE SEALED TO THE DUCT SEALING REQUIREMENTS OF CLASS "C" MINIMUM.

C. SELECT TRANSVERSE JOINT AND LONGITUDINAL SEAM TYPES, FIGURES 1-4 AND 1-5 RESPECTIVELY, AND FABRICATE RECTANGULAR DUCTWORK ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE".

D. SELECT ELBOWS, TRANSITIONS, OFFSETS, BRANCH CONNECTIONS, TEES AND LATERALS, AND OTHER FITTING TYPES, AND FABRICATE ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE".

E. TRANSITIONS IN SIZE OF DUCTS SHALL BE MADE BY UNIFORMLY TAPERING SECTIONS HAVING 1 INCH INCREASE IN WIDTH FOR EACH 7 INCHES OF RUN UNLESS CONSTRUCTION LIMITATIONS REQUIRE A MORE ABRUPT TRANSITION.

F. COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE", CHAPTER 4, "HANGERS AND SUPPORTS" FOR UPPER AND LOWER ATTACHMENTS. FIGURES 4.2 AND 4.4 RESPECTIVELY. REFER TO TABLES 4.1 AND 4.2 FOR RECTANGULAR AND ROUND MINIMUM HANGER SIZE AND SPACING.

G. SHEET METAL ROUND DUCT SHALL BE UNITED MCGILL, SEMCO INC., LINX IND., OR EQUAL SPIRAL SEAM DUCTS WITH GASKET "UNISEAL" CONNECTION FOR EXPOSED INSTALLATIONS, AND SPIRAL OR LONGITUDINAL SEAM WITH BEADED SLEEVE JOINT CONNECTIONS FOR CONCEALED INSTALLATIONS. FITTINGS SHALL BE "UNIFORM" MACHINE FORMED WITH CONTINUOUS WELDS.

H. SUPPLY AND RETURN AIR DUCTWORK SHALL BE EXTERNALLY INSULATED WITH 1 ½" THICK, 1-1/2 PCF DENSITY OR AS REQUIRED BY LOCAL ENERGY CODE. INSULATION SHALL BE OWENS-CORNING SOFT DUCT WRAP OR EQUAL CONSISTING OF A BLANKET OF GLASS FIBER INSULATION FACTORY-LAMINATED TO FRK VAPOR RETARDER FACING. INSULATION SHALL MEET THE REQUIREMENTS OF NFPA 90A AND 90 B AND OTHER MECHANICAL ENERGY CODES.

2.01.2 FACTORY-MADE AIR DUCTS

A. FACTORY-MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED. EACH SECTION OF A FACTORY-MADE AIR DUCT SHALL BE IDENTIFIED BY THE MANUFACTURER WITH A LABEL INDICATING CLASS DESIGNATION. THESE DUCTS SHALL BE LISTED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTING, *AND SHALL BE APPROVED FOR USE WITHOUT LENGTH LIMITATIONS BY THE AUTHORITY HAVING JURISDICTION.*

B. ACOUSTICAL FLEXIBLE DUCT SHALL BE UL 181 LISTED, CLASS 1, 2-PLY VINYL FILM SUPPORTED BY HELICALLY WOUND SPRING-STEEL WIRE, FIBROUS-GLASS INSULATION TO MEET LOCAL CODE R-VALUES, AND FINISHED WITH A POLYETHYLENE VAPOR- BARRIER FILM. INTERIOR VINYL FILM SHALL BE PERFORATED FOR SOUND ATTENUATION. FLEXIBLE DUCT SHALL BE RATED TO +10\"-1" W.G., 4000 FPM, AND -20 TO 210°F TEMPERATURE RANGE. FLEXIBLE DUCT CLAMP CONNECTORS SHALL BE STAINLESS-STEEL BAND WITH CADMIUM HEX SCREW TO TIGHTEN BAND WITH A WORM-GEAR ACTION. FLEXIBLE DUCTS SHALL BE ALLOWED ONLY AT THE FINAL CONNECTION TO AIR OUTLETS/INLETS AT A LENGTH OF 5 FEET MAXIMUM.

C. INSULATED ALUMINUM FLEXIBLE DUCT SHALL BE UL 181 LISTED, CLASS 0, INTERLOCKING SPIRAL OF ALUMINUM FOIL, FIBROUS-GLASS INSULATION SHALL MEET LOCAL CODE R-VALUE, AND SHALL BE FINISHED WITH A POLYETHYLENE VAPOR-BARRIER FILM. ALUMINUM FLEXIBLE DUCT SHALL BE RATED TO +/- 8" W.G., 5000 FPM VELOCITY, AND -20 TO 250°F TEMPERATURE RANGE.

D. INSULATED WIRE FLEXIBLE DUCT SHALL BE UL 181 LISTED, CLASS 1, 2-PLY VINYL FILM SUPPORTED BY HELICALLY WOUND SPRING-STEEL WIRE, FIBROUS-GLASS INSULATION SHALL MEET LOCAL CODE R-VALUES, AND SHALL BE FINISHED WITH A POLYETHYLENE VAPOR-BARRIER FILM. FLEXIBLE DUCTS SHALL BE RATED TO +10-1" W.G., 4000 FPM VELOCITY, AND -20 TO 210°F TEMPERATURE RANGE. FLEXIBLE DUCT CLAMP CONNECTORS SHALL BE STAINLESS-STEEL BAND WITH CADMIUM HEX SCREW TO TIGHTEN BAND WITH A WORM-GEAR ACTION.

E. PROVIDE SNAP-LOCK SEAMS FOR ROUND DUCTS 12"Ø OR LESS PER SMACNA "HVAC DUCT CONSTRUCTION STANDARDS - SEAMS - ROUND DUCT AND FITTINGS". SNAP LOCK DUCTS SHALL BE SEALED PER CLASS B; ALL TRANSVERSE JOINTS AND LONGITUDINAL SEAMS SHALL BE SEALED.

F. INSTALLATION OF FACTORY-MADE AIR DUCT JOINTS AND ATTACHMENTS SHALL BE IN STRICT ACCORDANCE WITH LATEST EDITION OF SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE".

G. SELECT TRANSITIONS, BRANCH CONNECTIONS, TEES AND LATERALS, AND OTHER FITTING TYPES, AND FABRICATE ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE" BASED ON INDICATED STATIC-PRESSURE CLASS.

H. SELECT SIZING PRACTICES IN ACCORDANCE TO THE AIR CONDITIONING CONTRACTORS OF AMERICA (ACCA), MANUALS D & Q. IN PRACTICE LIMIT VELOCITIES TO 700 FPM MAX. FOR SUPPLY AND RETURN AIR DUCTS, AND INCREASE DUCT SIZES BY ONE SIZE (EVEN NUMBER) LARGER THAN METAL AIR DUCTS.

I. FACTORY-MADE DUCTS SHALL NOT BE USED FOR VERTICAL RISERS IN AIR DISTRIBUTION DUCT SYSTEMS. SUCH A DUCT SHALL NOT PENETRATE CONSTRUCTION WHERE FIRE DAMPERS ARE REQUIRED.

2.01.3 DUCTWORK ACCESSORIES

A. DAMPER OPERATORS
- A.1. DUCTS WITH EXTERNAL INSULATION: VENTLOCK #637, DURADYNE, YOUNG, OR APPROVED EQUAL.
- A.2. DUCTS WITH INTERNAL INSULATION AND/OR NO INSULATION: VENTLOCK #635, DURADYNE, YOUNG, OR APPROVED EQUAL.

B. FLEXIBLE CONNECTIONS: VENTFABRICS "VENTGLAS", DURADYNE, OR APPROVED EQUAL, U.L. 181 APPROVED WITH METAL ATTACHMENT.

C. AIR EXTRACTOR: TITUS AG-225, KRUEGER EX-88C, OR APPROVED EQUAL.

D. TURNING VANES SHALL COMPLY WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS. ALL RECTANGULAR DUCT WITH MITERED ELBOWS SHALL BE FITTED WITH TURNING VANES.

E. SPIN-IN-FITTINGS ARE NOT ALLOWED. USE UNITED MCGILL BELLMOUTH FITTING FOR ROUND DUCT TAPS.

F. ACCESS DOORS IN DUCTWORK: SHALL BE VENTLOCK, DUCTMATE OR APPROVED EQUAL, STAMPED OR FORMED INSULATED ACCESS DOORS COMPLETE WITH ALL HARDWARE AND SEALANT.

G. JOINT SEALING:
- G.1. THE FOLLOWING ITEMS ARE TO BE SEALED WITH HARDCAST DT TAPE AND ADHESIVE:
  - G.1.a. LONGITUDINAL AND TRANSVERSE SEAMS OF RECTANGULAR DUCTWORK.
  - G.1.b. ALL ROUND FITTINGS AND JOINT CONNECTORS USE FTA-20 FOR INDOOR USE AND RTA-20 FOR OUTDOOR USE.
- G.2. FLEXIBLE DUCT AT DIFFUSERS SHALL USE INTEGRAL STAINLESS STEEL DRAW BAND AND PRESSURE SENSITIVE TAPE, HARDCAST P-301 OR EQUAL.

H. BRACINGS, HANGERS, NUTS, ETC. SHALL BE GALVANIZED.

I. CURVED ELBOWS SHALL HAVE CENTERLINE RADIUS EQUAL TO ONE AND ONE-HALF TIMES DUCT WIDTH IN PLANE OF TURN.

J. SQUARE ELBOWS SHALL HAVE TURNING VANES. MITER ELBOWS (NOT SQUARE) SHALL HAVE SPLITTER VANES 3 INCHES O.C.

K. VOLUME DAMPERS SHALL BE CONSTRUCTED TO SMACNA STANDARDS AND SHALL BE YOUNG REGULATOR MODEL 4040 FOR ROUND DUCTS AND SERIES 820 FOR RECTANGULAR DUCTS.

L. CONTRACTOR SHALL PROVIDE MANUAL VOLUME DAMPERS AT ALL BRANCH DUCTWORK IN SUPPLY AIR, RETURN AIR AND OUTSIDE AIR SYSTEMS (WHETHER SHOWN ON PLANS OR NOT) WHERE REQUIRED FOR AIR BALANCING OF HVAC SYSTEMS. ALL ACCESSIBLE VOLUME CONTROLS SHALL HAVE LOCKING QUADRANTS. ALL INACCESSIBLE CONTROLS (DAMPERS, ETC.) SHALL BE PROVIDED WITH PERMANENT EXTENSIONS TO ACCESSIBLE SPACES. BRANCH VOLUME CONTROLS ARE IN ADDITION TO VOLUME CONTROLS AT THE REGISTERS AND DIFFUSERS.

M. DIFFUSERS, GRILLES AND REGISTERS: AIR INLETS, OUTLETS SHALL BE PROPERLY SET IN PLACE. REGISTERS AND GRILLES SHALL BE TIGHTLY SEALED. EACH REGISTER AND DIFFUSER SHALL BE EQUIPPED WITH A VOLUME DAMPER OR AIR EXTRACTOR. PAINT INTERIOR SURFACE OF ALL UNITS FLAT BLACK. FACE AND TRIM OF ALL UNITS SHALL BE FINISHED. SIZE, FINISH, FRAMES, ACCESSORIES, CAPACITY AND PATTERN AS SHOWN ON DRAWINGS.

2.02 EXECUTION

A. ASSEMBLE AND INSTALL DUCTWORK IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES WHICH WILL ACHIEVE AIR TIGHT (MAX. 5 % LEAKAGE) AND NOISELESS (NO OBJECTIONABLE NOISE) SYSTEMS, CAPABLE OF PERFORMING EACH INDICATED SERVICE. INSTALL EACH RUN WITH MINIMUM OF JOINTS.

B. ALIGN DUCTWORK ACCURATELY AT CONNECTIONS, WITHIN 1/8" MISALIGNMENT TOLERANCE AND WITH INTERNAL SURFACES SMOOTH.

C. SUPPORT DUCTS RIGIDLY WITH SUITABLE TIES, BRACES, HANGERS AND ANCHORS OF TYPE WHICH WILL HOLD DUCT TRUE TO SHAPE AND WILL PREVENT BUCKLING.

D. PROVIDE ALL NECESSARY OFFSETS AND TRANSITIONS AS REQUIRED IN THE INSTALLATION OF THE WORK, ALTHOUGH SOME MAY NOT BE SPECIFICALLY SHOWN ON THE PLANS. OFFSET ALL DUCTS AS REQUIRED TO INCREASE HEAD ROOM UNDER THEM, TO IMPROVE THE APPEARANCE OF EXPOSED DUCTS, AND TO AVOID INTERFERENCE WITH THE WORK OF OTHER TRADES.

E. LOCATE DUCTWORK RUNS, EXCEPT AS OTHERWISE INDICATED, VERTICALLY AND HORIZONTALLY AND AVOID DIAGONAL RUNS WHEREVER POSSIBLE.

F. HOLD DUCTS CLOSE TO WALLS OVERHEAD CONSTRUCTION, COLUMNS, AND OTHER STRUCTURAL AND PERMANENT ENCLOSURE ELEMENTS OF BUILDING.

G. WHERE DUCTS PASS THROUGH INTERIOR PARTITIONS AND EXTERIOR WALLS, CONCEAL SPACE BETWEEN CONSTRUCTION OPENING AND DUCT OR DUCT-PLUS-INSULATION WITH SHEET METAL FLANGES OF SAME GAGE AS DUCT.

H. WHERE DUCTS PASS THROUGH TIME-RATED FIRE RESISTIVE CONSTRUCTION, ALL OPENINGS AROUND THE DUCTS SHALL BE SEALED WITH FIRE STOPPING MATERIAL, EXCEPT WHERE FIRE DAMPERS ARE SHOWN, NOTED OR REQUIRED.

I. PROVIDE ANGLE, CHANNEL, OR EQUAL TYPE FRAMES FOR ALL MANUAL AND AUTOMATIC DAMPERS AND INSTALL AS REQUIRED.

J. COORDINATE DUCT INSTALLATIONS WITH INSTALLATION OF ACCESSORIES, DAMPERS, COIL FRAMES, EQUIPMENT, CONTROLS AND OTHER ASSOCIATED WORK OF DUCTWORK SYSTEM.

K. SUPPORT DUCTWORK IN MANNER COMPLYING WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS" HANGER AND SUPPORTS SECTION.

3.00 - HYDRONIC & DIRECT EXPANSION PIPING

3.01 MATERIALS

A. HOT, CHILLED, AND CONDENSER WATER SERVICE PIPING ABOVE GROUND OF NOMINAL DIAMETER 2-1/2" OR LESS SHALL BE DRAWN-TEMPER COPPER PIPE, ASTM B88, TYPE L, WITH WROUGHT-COPPER FITTINGS, AND 95/5 LEAD FREE SOLDERED JOINTS.

B. REFRIGERANT PIPING SHALL BE TYPE L HARD COPPER ACR TUBING WITH WROUGHT COPPER, SOLDER JOINT FITTINGS, SILVER SOLDERED. ALL REFRIGERANT PIPING SHALL BE INSULATED EXCEPT WHERE THE UNINSULATED AREA DOES NOT RESULT IN AN ENERGY LOSS TO THE SYSTEM OR AN ADVERSE EFFECT TO THE SYSTEM FROM STRAY HEAT. PIPE INSULATION SHALL BE ARMSTRONG ARMAFLEX, OWENS-CORNING FLEXIBLE TUBING, RUBICON OR APPROVED EQUAL. THICKNESS SHALL BE 3/4" ON INTERIOR PIPING AND 1" ON EXTERIOR PIPING. INSULATED PIPING EXPOSED TO WEATHER SHALL BE PROVIDED WITH ARMSTRONG ARMAFLEX FINISH AND ALL-WEATHER SERVICE JACKET FOR OUTDOOR APPLICATIONS VALVES, STRAINERS, SIGHT GLASS, FILTER DRIERS, OIL SEPARATORS, ETC. SHALL BE MANUFACTURED BY SPORLAN VALVE CO.

C. COPPER PIPING SHALL HAVE SOLDERED JOINTS OF 250 PSIG PRESSURE RATING.

D. CONDENSATE DRAIN PIPE SHALL BE COPPER TYPE M, ASTM B88, WROUGHT COPPER FITTINGS, SOLDERED JOINTS.

E. GATE VALVES, 2-INCH AND SMALLER: MSS SP-80; CLASS 125, BODY AND BONNET OF ASTM B 62 CAST BRONZE; WITH THREADED OR SOLDER ENDS, SOLID DISC, SILICON BRONZE ALLOY STEM, BRASS PACKING GLAND, "TEFLON" IMPREGNATED PACKING, AND MALLEABLE IRON HANDWHEEL. PROVIDE CLASS 150 VALVES MEETING THE ABOVE WHERE SYSTEM PRESSURE REQUIRES.

F. BALL VALVES, 2-INCH AND SMALLER: MSS SP-110; RATED FOR 150 PSI SATURATED STEAM PRESSURE, 600 PSI WOG PRESSURE; TWO-PIECE CONSTRUCTION; WITH BRONZE BODY CONFORMING TO ASTM B 62, STANDARD PORT, CHROME-PLATED BRASS BALL, REPLACEABLE "TEFLON" OR "TFE" SEATS AND SEALS, BLOWOUT-PROOF STEM, AND VINYL-COVERED STEEL HANDLE. PROVIDE SOLDER ENDS FOR CONDENSER WATER, CHILLED WATER, AND THREADED ENDS FOR HEATING HOT WATER.

G. PLUG VALVES, 2-INCH AND SMALLER: RATED AT 150 PSI WOG; BRONZE BODY, WITH STRAIGHT- AWAY PATTERN, SQUARE HEAD, AND THREADED ENDS

H. GLOBE VALVES, 2-INCH AND SMALLER: MSS SP-80; CLASS 125; BODY AND SCREWED BONNET OF ASTM B 62 CAST BRONZE; WITH THREADED OR SOLDER ENDS; BRASS OR "TEFLON" DISC, SILICON BRONZE ALLOY STEM, BRASS PACKING GLAND, "TEFLON" IMPREGNATED PACKING, AND MALLEABLE IRON HANDWHEEL. PROVIDE CLASS 150 VALVES MEETING THE ABOVE WHERE SYSTEM PRESSURE REQUIRES.

I. SWING CHECK VALVES, 2-INCH AND SMALLER: MSS SP-80; CLASS 125, CAST-BRONZE BODY AND CAP CONFORMING TO ASTM B 62; WITH HORIZONTAL SWING, Y-PATTERN, AND BRONZE OR "TEFLON" DISC; AND HAVING THREADED OR SOLDER ENDS. PROVIDE VALVES CAPABLE OF BEING REGROUND WHILE THE VALVE REMAINS IN THE LINE. PROVIDE CLASS 150 VALVES MEETING THE ABOVE SPECIFICATIONS, WITH THREADED END CONNECTIONS, WHERE SYSTEM PRESSURE REQUIRES OR WHERE CLASS 125 VALVES ARE NOT AVAILABLE.

J. BALANCING VALVES, 2 ½" AND SMALLER: BRONZE BODY, BALL TYPE, 125-PSIG WORKING PRESSURE, 250°F MAXIMUM OPERATING TEMPERATURE, AND HAVING THREADED ENDS. VALVES SHALL HAVE CALIBRATED ORIFICE OR VENTURI, CONNECTIONS FOR PORTABLE DIFFERENTIAL PRESSURE METER WITH INTEGRAL SEALS, AND BE EQUIPPED WITH A MEMORY STOP TO RETAIN SET POSITION.

K. AUTOMATIC FLOW-CONTROL VALVES: GRAY-IRON BODY, FACTORY SET TO MAINTAIN CONSTANT FLOW WITH PLUS OR MINUS 5 PERCENT OVER SYSTEM PRESSURE FLUCTUATIONS, AND EQUIPPED WITH A READOUT KIT INCLUDING FLOW METER, PROBES, HOSES, FLOW CHARTS, AND CARRYING CASE. EACH VALVE SHALL HAVE AN IDENTIFICATION TAG ATTACHED BY CHAIN, AND BE FACTORY MARKED WITH THE ZONE IDENTIFICATION, VALVE NUMBER, AND FLOW RATE.

L. MANUAL AIR VENT: BRONZE BODY AND NONFERROUS INTERNAL PARTS; 150-PSIG WORKING PRESSURE; 225°F OPERATING TEMPERATURE; MANUALLY OPERATED WITH SCREWDRIVER OR THUMBSCREW, WITH 1/8" DISCHARGE CONNECTION AND ½" INLET CONNECTION.

M. AUTOMATIC AIR VENT: DESIGNED TO VENT AUTOMATICALLY WITH FLOAT PRINCIPLE; BRONZE BODY AND NONFERROUS INTERNAL PARTS; 150-PSIG WORKING PRESSURE; 240°F OPERATING TEMPERATURE; WITH ¼" DISCHARGE CONNECTION AND ½" INLET CONNECTION.

N. Y-PATTERN STRAINERS: 125-PSIG WORKING PRESSURE; CAST-IRON BODY (ASTM A 126, CLASS B), THREADED CONNECTIONS FOR 2" AND SMALLER, BOLTED COVER, PERFORATED STAINLESS-STEEL BASKET, AND BOTTOM DRAIN CONNECTION.

O. FLEXIBLE CONNECTORS: STAINLESS-STEEL BELLOWS WITH WOVEN, FLEXIBLE, BRONZE, WIRE-REINFORCING PROTECTIVE JACKET; 150-PSIG MINIMUM WORKING PRESSURE AND 250°F MAXIMUM OPERATING TEMPERATURE. CONNECTORS SHALL HAVE FLANGED- OR THREADED-END CONNECTIONS TO MATCH EQUIPMENT CONNECTED AND SHALL BE CAPABLE OF 3/4-INCH (20-MM) MISALIGNMENT.

P. INSULATE ALL WATER PIPING WITH DENSITY FIBROUS GLASS INSULATION WITH WHITE KRAFT BONDED TO ALUMINUM FOIL. THICKNESS AND R-VALUE AS PER TABLE 120.3-A OF CEC STANDARDS. FITTINGS SHALL BE INSULATED WITH PRE-MOLDED FIBERGLASS INSULATION. THE INTEGRITY OF THE VAPOR BARRIER SHALL BE MAINTAINED THROUGHOUT THE INSTALLATION. TAPE AND SEAL ALL JOINTS WITH VAPOR BARRIER TAPE.

3.02 EXECUTION:

A. INSTALL HANGERS, SUPPORTS, CLAMPS, AND ATTACHMENTS TO SUPPORT PIPING PROPERLY FROM BUILDING STRUCTURE; COMPLY WITH MSS SP-69. ARRANGE FOR GROUPING OF PARALLEL RUNS OF HORIZONTAL PIPING TO BE SUPPORTED TOGETHER ON TRAPEZE TYPE HANGERS WHERE POSSIBLE. INSTALL SUPPORTS WITH MAXIMUM SPACING COMPLYING WITH MSS SP-69. WHERE PIPING OF VARIOUS SIZES IS TO BE SUPPORTED TOGETHER BY TRAPEZE HANGERS, SPACE HANGERS FOR SMALLEST PIPE SIZE OR INSTALL INTERMEDIATE SUPPORTS FOR SMALLER DIAMETER PIPE.

B. INSTALL HANGERS AND SUPPORTS COMPLETE WITH NECESSARY INSERTS, BOLTS, RODS, NUTS, WASHERS AND OTHER ACCESSORIES. EXCEPT AS OTHERWISE INDICATED FOR EXPOSED CONTINUOUS PIPE RUNS, INSTALL HANGERS AND SUPPORTS OF SAME TYPE AND STYLE AS INSTALLED FOR ADJACENT SIMILAR PIPING.

C. PREVENT ELECTROLYSIS IN SUPPORT OF COPPER TUBING BY USE OF HANGERS AND SUPPORTS WHICH ARE COPPER PLATED, OR BY OTHER RECOGNIZED INDUSTRY METHODS.

D. INSTALL HANGERS AND SUPPORTS TO ALLOW CONTROLLED MOVEMENT OF PIPING SYSTEMS AND TO PERMIT FREEDOM OF MOVEMENT BETWEEN PIPE ANCHORS, AND TO FACILITATE ACTION OF EXPANSION JOINTS, EXPANSION LOOPS, EXPANSION BENDS AND SIMILAR UNITS.

E. INSTALL HANGERS AND SUPPORTS SO THAT PIPING LIVE AND DEAD LOADING AND STRESSES FROM MOVEMENT WILL NOT BE TRANSMITTED TO CONNECTED EQUIPMENT.

F. INSTALL HANGERS AND SUPPORTS TO PROVIDE INDICATED PIPE SLOPES, AND SO THAT MAXIMUM PIPE DEFLECTIONS ALLOWED BY ANSI B31 PRESSURE PIPING CODES ARE NOT EXCEEDED.

G. INSULATED PIPING: COMPLY WITH THE FOLLOWING INSTALLATION REQUIREMENTS.
- G.1. CLAMPS: ATTACH CLAMPS, INCLUDING SPACERS, TO PIPING WITH CLAMPS PROJECTING THROUGH INSULATION; DO NOT EXCEED PIPE STRESSES ALLOWED BY ANSI B31.
- G.2. SHIELDS: WHERE LOW-COMPRESSIVE-STRENGTH INSULATION OR VAPOR BARRIERS ARE INDICATED ON WATER PIPING, INSTALL COATED PROTECTIVE SHIELDS.
- G.3. SADDLES: WHERE INSULATION WITHOUT VAPOR BARRIER IS INDICATED, INSTALL PROTECTION SADDLES.

H. ALL CONNECTIONS BETWEEN DISSIMILAR METALS SHALL UTILIZE DIELECTRIC INSULATING FITTINGS, COUPLINGS AND UNIONS.

4.00 - EQUIPMENT

4.01 AIR DEVICES

DIFFUSERS, GRILLES AND REGISTERS: TITUS, KRUEGER, METALAIRE, OR THERMAFUSER WHERE SHOWN. FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. PROVIDE VOLUME DAMPERS AND PAINT INTERIOR FLAT BLACK. SIZE, FINISH, FRAME TYPES AND ACCESSORIES AS SHOWN ON THE DRAWINGS.

4.02 FIRE DAMPERS & SMOKE FIRE DAMPERS

A. PROVIDE FIRE DAMPERS WITH ACCESS DOORS INSTALLED WHERE REQUIRED BY ALL LOCAL CODES. IN GENERAL, FIRE DAMPERS ARE REQUIRED WHERE DUCTS PIERCE FIRE-RATED FLOORS, CEILINGS, WALLS AND SHAFTS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL FIRE RATED ASSEMBLIES.

B. FIRE DAMPERS SHALL BE EQUAL TO AIR BALANCE INC., MODEL NO. 1159BLX, OR 119CL, OR AS APPROVED, FOR RECTANGULAR AND ROUND DUCTS. DAMPERS SHALL MEET THE REQUIREMENTS FOR NFPA BULLETIN NO. 90A, AND SHALL BE TESTED IN ACCORDANCE WITH UL 555 TEST CRITERIA, FIRE DAMPERS SHALL BE LABELED AND LISTED BY UL.

C. IF APPLICABLE, FIRE DAMPERS SHALL COMPLY WITH UL-555-2006, 7TH EDITION AND SHALL BE MARKED "FOR USE IN DYNAMIC SYSTEMS" OR "FOR USE IN STATIC SYSTEMS" AS REQUIRED.

D. COMBINATION SMOKE FIRE DAMPERS SHALL BE INSTALLED WHERE DUCTWORK PENETRATES FIRE RATED WALLS SURROUNDING AN EXIT CORRIDOR, OR WHERE OTHERWISE REQUIRED BY CODE.

4.03 AIR CONDITIONING EQUIPMENT

A. FURNISH AND INSTALL AIR CONDITIONING EQUIPMENT AS SPECIFIED ON THE DRAWINGS AND IN EQUIPMENT SCHEDULES.

B. DESCRIPTION: FACTORY ASSEMBLED AND TESTED; DESIGNED FOR ROOF OR SLAB INSTALLATION; AND CONSISTING OF COMPRESSORS, CONDENSERS, EVAPORATOR COILS, CONDENSER AND EVAPORATOR FANS, REFRIGERATION AND TEMPERATURE CONTROLS, FILTERS, AND DAMPERS.

C. CASING: MANUFACTURER'S STANDARD CONSTRUCTION WITH CORROSION-PROTECTION COATING AND EXTERIOR FINISH, HINGED PANELS OR ACCESS DOORS WITH NEOPRENE GASKETS FOR INSPECTION AND ACCESS TO INTERNAL PARTS, MINIMUM 12-INCH THICK THERMAL INSULATION, KNOCKOUTS FOR ELECTRICAL AND PIPING CONNECTIONS, EXTERIOR CONDENSATE DRAIN CONNECTION, AND LIFTING LUGS.

D. EVAPORATOR FANS: FORWARD CURVED, CENTRIFUGAL, BEL

NEW PACKAGED HEAT PUMP ROOFTOP UNIT SCHEDULE

EQUIP. TAG	MANUFACTURER & MODEL	LOCATION	INDOOR FAN				COOLING CAPACITY			HEATING CAPACITY			REFRIGERANT		ELECTRICAL			OPERATING WEIGHT (lbs)	REMARKS
			SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	ESP (in. H20)	MOTOR HP	NOMINAL TONS	TOTAL/SENSIBLE (MBH)	EER / SEER (IEER)	HEATING OUTPUT	COP	AUXILIARY ELECTRICAL HEATER (KW)	TYPE	QUANTITY (LB - OZ)	V/ph/Hz	MCA	MOCP		
RTU-1	CARRIER 50FEQA06	ROOF	2000	430	1.0	1.44	5	70.1 / 53.27	11.5 / 13.4	49.32	2.2	6.0	R-454B	11 - 3	460/3/60	26	30	637	1-11
RTU-2	CARRIER 50FEQA06	ROOF	2000	430	1.0	1.44	5	70.1 / 53.27	11.5 / 13.4	49.32	2.2	6.0	R-454B	11 - 3	460/3/60	26	30	637	1-11
RTU-3	CARRIER 50FECM08	ROOF	3000	750	1.0	2.4	7.5	103.1 / 77.42	11.2 / 15	70.0	3.4	15.0	R-454B	16 - 10	460/3/60	44	45	1002	1-11

1. NEW PACKAGED HEAT PUMP ROOFTOP UNIT. DOWNFLOW DISCHARGE CONFIGURATION. MOUNT ON EXISTING CURB. FIELD VERIFY SIZE AND CONDITION OF EXISTING CURB. PROVIDE CURB ADAPTER AS NEEDED.
2. CONTRACTOR TO ENSURE THAT OUTDOOR AIR INTAKES ARE A MINIMUM 10'-0" AWAY FROM ANY EXHAUST FAN DISCHARGE, PLUMBING VENT, OR OTHER CONTAMINANT SOURCE.
3. PERFORM TESTING AND BALANCING, AND SUBMIT CERTIFIED REPORTS TO THE ENGINEER IN ACCORDANCE WITH SPECIFICATION.
4. MECHANICAL CONTRACTOR SHALL AFFIX DESIGNATION DECAL ON EACH UNIT, WITH MIN. 4" HIGH REFLECTIVE LETTER. DECAL SHALL BE PLACED IN DIRECTION OF ROOF HATCH.
5. CONVENIENCE OUTLET PROVIDED AND INSTALLED BY E.C.
6. DISCONNECT SWITCH PROVIDED AND INSTALLED BY E.C.
7. PROVIDE NEW MERV-13 FILTERS. REPLACE FILTERS AFTER CONSTRUCTION PRIOR TO FINAL.
8. PROVIDE NEW WALL-MOUNT PROGRAMMABLE THERMOSTAT.
9. PROVIDE NEW WALL MOUNTED REMOTE TEMPERATURE SENSOR. SEE PLAN FOR DETAILS.
10. PROVIDE SMOKE DETECTOR ON RETURN AIR PLENUM IF NONE IS EXISTING.
11. PROVIDE WITH FIXED ENTHALPY ECONOMIZER, FAULT DETECTION AND DIAGNOSTICS.

EXISTING PACKAGED HEAT PUMP ROOFTOP UNIT SCHEDULE

EQUIP. TAG	MANUFACTURER & MODEL	LOCATION	INDOOR FAN				COOLING CAPACITY			HEATING CAPACITY			ELECTRICAL			OPERATING WEIGHT (lbs)	REMARKS
			SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	ESP (in. H20)	MOTOR HP	NOMINAL TONS	TOTAL/SENSIBLE (MBH)	EER / SEER	HEATING OUTPUT	HSPF	AUXILIARY ELECTRICAL HEATER (KW)	V/ph/Hz	MCA	MOCP		
RTU-4	CARRIER 50HJQ006	ROOF	2000	430	1.0	1.33	5	61.5 / 41.3	11.15 / 13.2	58.0	7.7	UTD	460/3/60	15	20	515	1-10
RTU-5	CARRIER 50HJQ006	ROOF	2000	430	1.0	1.33	5	61.5 / 41.3	11.15 / 13.2	58.0	7.7	UTD	460/3/60	15	20	515	1-10
RTU-6	CARRIER 50HJQ006	ROOF	3000	750	1.0	1.33	5	61.5 / 41.3	11.15 / 13.2	58.0	7.7	UTD	460/3/60	15	20	515	1-10

1. EXISTING PACKAGED HEAT PUMP ROOFTOP UNIT TO REUSE. FIELD VERIFY EXACT CAPACITY OF ELECTRIC HEATER AND COORDINATE WITH ELECTRICAL CONTRACTOR.
2. CONTRACTOR TO ENSURE THAT OUTDOOR AIR INTAKES ARE A MINIMUM 10'-0" AWAY FROM ANY EXHAUST FAN DISCHARGE, PLUMBING VENT, OR OTHER CONTAMINANT SOURCE.
3. PERFORM TESTING AND BALANCING, AND SUBMIT CERTIFIED REPORTS TO THE ENGINEER IN ACCORDANCE WITH SPECIFICATION.
4. MECHANICAL CONTRACTOR SHALL AFFIX DESIGNATION DECAL ON EACH UNIT, WITH MIN. 4" HIGH REFLECTIVE LETTER. DECAL SHALL BE PLACED IN DIRECTION OF ROOF HATCH.
5. PROVIDE NEW MERV-13 FILTERS. REPLACE FILTERS AFTER CONSTRUCTION PRIOR TO FINAL.
6. PROVIDE NEW WALL-MOUNT PROGRAMMABLE THERMOSTAT.
7. PROVIDE NEW WALL MOUNTED REMOTE TEMPERATURE SENSOR. SEE PLAN FOR DETAILS.
8. PROVIDE SMOKE DETECTOR ON RETURN AIR PLENUM IF NONE IS EXISTING.
9. PERFORM HVAC MAINTENANCE CHECKLIST ON M-001.
10. ADJUST OUTSIDE AIR INTAKE AS PER EQUIPMENT SCHEDULE.

REQUIRED OUTSIDE AIR VENTILATION RATES (2022 CMC)

JD Sports Las Americas Outlets - San Ysidro, CA

Zone & Area	Occupany Category	Area	2022 CMC, TABLE 402.1							2022 CEC, TABLE 120.1-A			
			Occupants per 1000 SF	No. of Occupants	Ventilation Air (CFM/SF)	Ventilation Air (CFM/PERSON)	Total CFM	Ventilation System Efficiency	**Required Ventilation CFM**	Ventilation Air (CFM/SF)	**Required Ventilation CFM**	Ventilation Air Required (CFM)	**Ventilation Air Provided CFM**
01 Sales Area	Sales	1710	15	26	0.12	7.5	401	100%	401	0.15	257	401	
02 Display Area	Storage	173	0	0	0.06	5	11	100%	11	0.15	26	26	
(N)RTU-1 & (N)RTU-2	**Total**	**1883**		**26**			**412**		**412**		**283**	**427**	**430**
01 Sales Area	Sales	2445	15	37	0.12	7.5	571	80%	714	0.15	367	714	
08 Accessible Restroom 2	Restroom	56	0	0	0.06	0	4	80%	5	0.15	9	9	
10 Hallway	Corridor	178	0	0	0.06	0	11	80%	14	0.15	27	27	
(N)RTU-3	**Total**	**2679**		**37**			**586**		**733**		**403**	**750**	**750**
01 Sales Area	Sales	1600	15	24	0.12	7.5	372	80%	465	0.15	240	465	
04 Fitting Area	Sales	102	15	2	0.12	7.5	28	80%	35	0.15	16	35	
(E)RTU-4	**Total**	**1702**		**26**			**400**		**500**		**256**	**500**	**500**
05 Stock Room	Ship/Receive	2596	2	6	0.12	10	372	90%	414	0.15	390	414	
06 Locker Room	Ship/Receive	54	2	1	0.12	10	17	90%	19	0.15	9	19	
07 Accessible Restroom 1	Restroom	52	0	0	0.06	0	4	90%	5	0.15	8	8	
09 Manager's Office	Office	66	5	1	0.06	5	9	90%	10	0.15	10	10	
(E) RTU-5	**Total**	**2768**		**8**			**402**		**448**		**417**	**451**	**455**
03 Staff Room	Breakrooms	249	25	7	0.06	5	50	90%	56	0.15	38	56	
05 Stock Room	Ship/Receive	2221	2	5	0.12	10	317	90%	353	0.15	334	353	
(E) RTU-6	**Total**	**2470**		**12**			**367**		**409**		**372**	**409**	**410**

AIR DISTRIBUTION SCHEDULE

DIFFUSER TAG	TYPE	MINIMUM AIR FLOW	MAXIMUM AIR FLOW	NECK SIZE	FACE SIZE	MOUNTING	BORDER TYPE	MANUFACTURER / MODEL	DEFLECTION	REMARKS
SG-1	SUPPLY GRILLE	100	600	18"x10"	19-3/4"X11-3/4"	DUCT	SURFACE MOUNT	TITUS 300RL	22.5°	1-3
SD-1	SUPPLY DIFFUSER	50	150	8"Ø	12"X12"	CEILING	SURFACE MOUNT	TITUS PAS	-	1,3
RG-1	RETURN AIR GRILLE	3500	3500	60"X24"	60"X24"	WALL	SURFACE MOUNT	TITUS 355RL	-	1,3
TG-1	TRANSFER AIR GRILLE	-	-	-	24"x24"	WALL	SURFACE MOUNT	TITUS 355RL	-	1

1. COORDINATE FINISH WITH ARCHITECT.
2. DOUBLE DEFLECTION GRILLE.
3. MANUAL VOLUME DAMPER.

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REGISTERED PROFESSIONAL ENGINEER KEITH HUEN No.M39192 Exp.12/31/26 MECHANICAL STATE OF CALIFORNIA

A Project for:

JD SPORTS #1425
LAS AMERICAS PREMIUM OUTLETS

4155 CAMINO DE LA PLAZA SPACE 0448A
SAN DIEGO, CA 92173

1

PORTFOLIO REFERENCE ONLY

Client:

JD SPORTS

3308 N. MITTHOEFFER ROAD
INDIANAPOLIS, IN 46235

MECHANICAL SCHEDULES

Sheet #:

M-003

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STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.	
Project Name: JD Sports - #1425	**Report Page:** **(Page 1 of 19)**
Project Address: 4155 Camino Dey La Plaza	**Date Prepared:** 7/7/2025

A. GENERAL INFORMATION

01	Project Location (city)	San Ysidro	04	Total Conditioned Floor Area	11502
02	Climate Zone	7	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● Retail ● Support Areas ● Warehouse ◆ All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☒ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☒ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☒ Ductwork (existing to remain, altered or new)
	☐ Chillers	☒ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
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C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Econmizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND	Yes	AND	Yes	AND	No	AND		AND	Yes	AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)										COMPLIES					

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
RTU-1 & RTU-2	2	Single zone	New/ Addition		☐
RTU-3	1	Single zone	New/ Addition		☐

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

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	Date Prepared: 7/7/2025

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aiii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
RTU-1 & RTU-2	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	82.57	49.32	0	121.78	53.27	67.89	146.08
RTU-3	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	58.61	70.02	0	79.71	77.42	43.16	96.07

[1] FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.
[2] It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.
[3] If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
[4] Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
RTU-1 & RTU-2	>=65,000 and <135,000		COP	3.4	2.2	EER IEER	11 14.1	11.5 12.9
RTU-3	>=65,000 and <135,000		COP	3.4	3.4	EER IEER	11 14.1	11.2 15

STATE OF CALIFORNIA
Mechanical Systems
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G. PUMPS

This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in 140.4(c), 140.4(e), 140.4(m), 170.2(c)3, and 170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	RTU-1 & RTU-2	Quantity	2	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	4,000	Site Elevation	13	Economizer	Fixed Enthalpy
01	02	03	04			05		06	07	08	09			10	11

Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Allowance: Component Allowance	Allowance: Fan Allowance (watt/cfm)[3]	Design: Design Electrical Input Power Method	Design: Motor Nameplate Horsepower	Design: Design Electrical Input Power (kW)
SF	Supply	2	Base Allowance for system serving spaces <=6 floors away	100		464		Manufacturer provided		0.79
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		278				
			Hydronic/DX cooling coil or heat pump coil	100		278				
			Economizer Return Damper	100		92				
Supply Fan Base Allowance (kW)			Exhaust/Return/Relief/Transfer Fan Base Allowance(kW)			Fan System Allowance (kW)[3]	2.22	Fan System Electrical Output (kW)		1.58

STATE OF CALIFORNIA
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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
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	Date Prepared: 7/7/2025

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	RTU-3	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	3,000	Site Elevation	13	Economizer	Fixed Enthalpy
01	02	03	04			05		06	07	08	09			10	11

Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Allowance: Component Allowance	Allowance: Fan Allowance (watt/cfm)[3]	Design: Design Electrical Input Power Method	Design: Motor Nameplate Horsepower	Design: Design Electrical Input Power (kW)
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away	100		696		Manufacturer provided		1.14
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		417				
			Hydronic/DX cooling coil or heat pump coil	100		417				
			Economizer Return Damper	100		138				
Supply Fan Base Allowance (kW)			Exhaust/Return/Relief/Transfer Fan Base Allowance(kW)			Fan System Allowance (kW)[3]	1.67	Fan System Electrical Output (kW)		1.14

[1] FOOTNOTES: Fans serving spaces with design background noise goals below NC35
[2] Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.
[3] Fan system allowance includes fan system base allowance.
[4] Filter pressure loss can only be counted once per fan system.
[5] Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.
[6] Computer room economizers must meet requirements of 140.9(a) and will be documented on the NRCC-PRC-E document..

Fan Energy Index (FEI)

01	02	03

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Fan Energy Index (FEI)

Name or Item Tag	FEI Exception	FEI
RTU-1 & RTU-2	None Applies	1
RTU-3	None Applies	1

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4[f] and [n], 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window interlocks per 140.4(n) & 170.2(c)4D
RTU-1 & RTU-2	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	NA: Would increase energy use	Provided
RTU-3	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	NA: Would increase energy use	Provided

[1] FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

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J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)3B 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and d:\24refnolink/]160.2, 160.3(a)3D, 170.2(a)4N, 170.2(a)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒ ☐	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)2.

Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems

04		05			06			07	
System Name	RTU-1 & RTU-2	System Design OA CFM Airflow[1]		430	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[2]	
								Provided	
08	09	10	11	12	13	14	15	16	

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D		
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
SALES AREA	Retail sales	1710			427.5	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
DISAPLAY AREA	All others	173			0	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				428	18	Ventilation for this System Complies?		Yes

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J. VENTILATION AND INDOOR AIR QUALITY

04		05			06			07	
System Name	RTU-3	System Design OA CFM Airflow[1]		750	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[2]	
								Provided	
08	09	10	11	12	13	14	15	16	

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D		
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
SALES AREA	Retail sales	2445			611.2	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
RESTROOM	Toilet, public	56			0	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
CORRIDOR	Corridor	178			26.7	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				638	18	Ventilation for this System Complies?		Yes

04		05			06			07	
System Name	(E)RTU-4	System Design OA CFM Airflow[1]		500	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[2]	
								Provided	
08	09	10	11	12	13	14	15	16	

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J. VENTILATION AND INDOOR AIR QUALITY

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D		
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
SALES AREA	Retail sales	1702			425.5	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				426	18	Ventilation for this System Complies?		Yes

04		05			06			07	
System Name	(E)RTU-5	System Design OA CFM Airflow[1]		455	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[2]	
								Provided	
08	09	10	11	12	13	14	15	16	

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D		
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BOH	Shipping/ receiving	2650			397.5	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
RESTROOM	Toilet, public	52			0	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type

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A Project for:

JD SPORTS #1425
LAS AMERICAS PREMIUM OUTLETS
4155 CAMINO DE LA PLAZA SPACE 0448A
SAN DIEGO, CA 92173

PORTFOLIO REFERENCE ONLY
Client:
JD SPORTS

3308 N. MITTHOEFFER ROAD
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J. VENTILATION AND INDOOR AIR QUALITY

MANAGER OFFICE	Break room	66			33	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				430	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	(E)RTU-6	System Design OA CFM Airflow[1]		410	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[2]	
								Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)3[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[4] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
STAFF AREA	Break room	249			124.5	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
BOH	Shipping/ receiving	2221			333.2	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				458	18	Ventilation for this System Complies?		No

[1] *FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system*

[2] *Air filtration requirements apply to the following three system types per 120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.*

[3] *Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.*

[4] *See Standards Tables 120.1-A and 120.1-B.*

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J. VENTILATION AND INDOOR AIR QUALITY

[5] *For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.*

[6] *120.2(e)3 requires systems serving rooms that are required by 130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by 130.1(c).*

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 120.4(g) for duct sealing.

01	☐	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.

Duct Leakage Testing

The answers to the questions below apply to the following duct systems:	RTU-1 & RTU-2	**NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No

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L. DISTRIBUTION (DUCTWORK and PIPING)

			Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	No
			Duct leakage testing per CMC Section 603.10.1 required for these systems?	Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.		
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:		
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17		All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A		
18		All ductwork is an extension of an existing duct system		
19		Ductwork serving individual dwelling unit		
20		< 25 ft of new or replacement space conditioning ducts installed		
21	R-8	Duct Insulation R-value		
22				
23				
The answers to the questions below apply to the following duct systems:		RTU-3	**NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No

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L. DISTRIBUTION (DUCTWORK and PIPING)

			Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	No
			Duct leakage testing per CMC Section 603.10.1 required for these systems?	Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.		
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:		
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17		All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A		
18		All ductwork is an extension of an existing duct system		
19		Ductwork serving individual dwelling unit		
20		< 25 ft of new or replacement space conditioning ducts installed		
21	R-8	Duct Insulation R-value		
22				
23				
The answers to the questions below apply to the following duct systems:		(E)RTU-4	**NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No

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L. DISTRIBUTION (DUCTWORK and PIPING)

			Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	No
			Duct leakage testing per CMC Section 603.10.1 required for these systems?	Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.		
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:		
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17		All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A		
18		All ductwork is an extension of an existing duct system		
19		Ductwork serving individual dwelling unit		
20		< 25 ft of new or replacement space conditioning ducts installed		
21	R-8	Duct Insulation R-value		
22				
23				
The answers to the questions below apply to the following duct systems:		(E)RTU-5	**NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No

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L. DISTRIBUTION (DUCTWORK and PIPING)

			Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	No
			Duct leakage testing per CMC Section 603.10.1 required for these systems?	Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.		
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:		
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17		All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A		
18		All ductwork is an extension of an existing duct system		
19		Ductwork serving individual dwelling unit		
20		< 25 ft of new or replacement space conditioning ducts installed		
21	R-8	Duct Insulation R-value		
22				
23				
The answers to the questions below apply to the following duct systems:		(E)RTU-6	**NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No

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L. DISTRIBUTION (DUCTWORK and PIPING)

			Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	No
			Duct leakage testing per CMC Section 603.10.1 required for these systems?	Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.		
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:		
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17		All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A		
18		All ductwork is an extension of an existing duct system		
19		Ductwork serving individual dwelling unit		
20		< 25 ft of new or replacement space conditioning ducts installed		
21	R-8	Duct Insulation R-value		
22				
23				

M. COOLING TOWERS

This section does not apply to this project.

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N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	CARRIER 5TON 50FEQA06; CARRIER 7.5TON 50FEQM08;
NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to 'Yes'. If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	CARRIER 5TON 50FEQA06; CARRIER 7.5TON 50FEQM08;
NRCA-MCH-05-A - Air Economizer Controls	CARRIER 5TON 50FEQA06; CARRIER 7.5TON 50FEQM08;
NRCA-MCH-11-A Automatic Demand Shed Controls	CARRIER 5TON 50FEQA06; CARRIER 7.5TON 50FEQM08;
NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	CARRIER 5TON 50FEQA06; CARRIER 7.5TON 50FEQM08;
NRCA-MCH-16-A Supply Air Temperature Reset Controls	CARRIER 5TON 50FEQA06; CARRIER 7.5TON 50FEQM08;
NRCA-MCH-18-A Energy Management Control Systems	CARRIER 5TON 50FEQA06; CARRIER 7.5TON 50FEQM08;

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P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes	Plan sheet or construction document location: M-Sheets

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A Project for:

JD SPORTS #1425
LAS AMERICAS PREMIUM OUTLETS
4155 CAMINO DE LA PLAZA SPACE 0448A
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Mechanical Systems

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CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: JD Sports - #1425	**Report Page:**	**(Page 19 of 19)**
Project Address: 4155 Camino Dey La Plaza	**Date Prepared:**	7/7/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Keith Huen	Documentation Author Signature: Keith Huen
Company: ACIES Engineering	Signature Date: 2025-07-07
Address: 400 N. McCarthy Blvd., Ste 250	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Milpitas, CA 95035	Phone: 408-522-5255

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Keith Huen	Responsible Designer Signature: Keith Huen
Company: ACIES Engineering	Date Signed: 2025-07-07
Address: 400 N McCarthy Blvd., STE 250	License: M39192
City/State/Zip: Milpitas CA 95035	Phone: 408-522-5255

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REGISTERED PROFESSIONAL ENGINEER
KEITH HUEN
No.M39192
Exp.12/31/26
MECHANICAL
STATE OF CALIFORNIA

A Project for:

JD SPORTS #1425
LAS AMERICAS PREMIUM OUTLETS

4155 CAMINO DE LA PLAZA SPACE 0448A
SAN DIEGO, CA 92173

1

PORTFOLIO REFERENCE ONLY

Client:

JD SPORTS

3308 N. MITTHOEFFER ROAD
INDIANAPOLIS, IN 46235

COMCHECK
COMPLIANCE

Sheet #:

M-006

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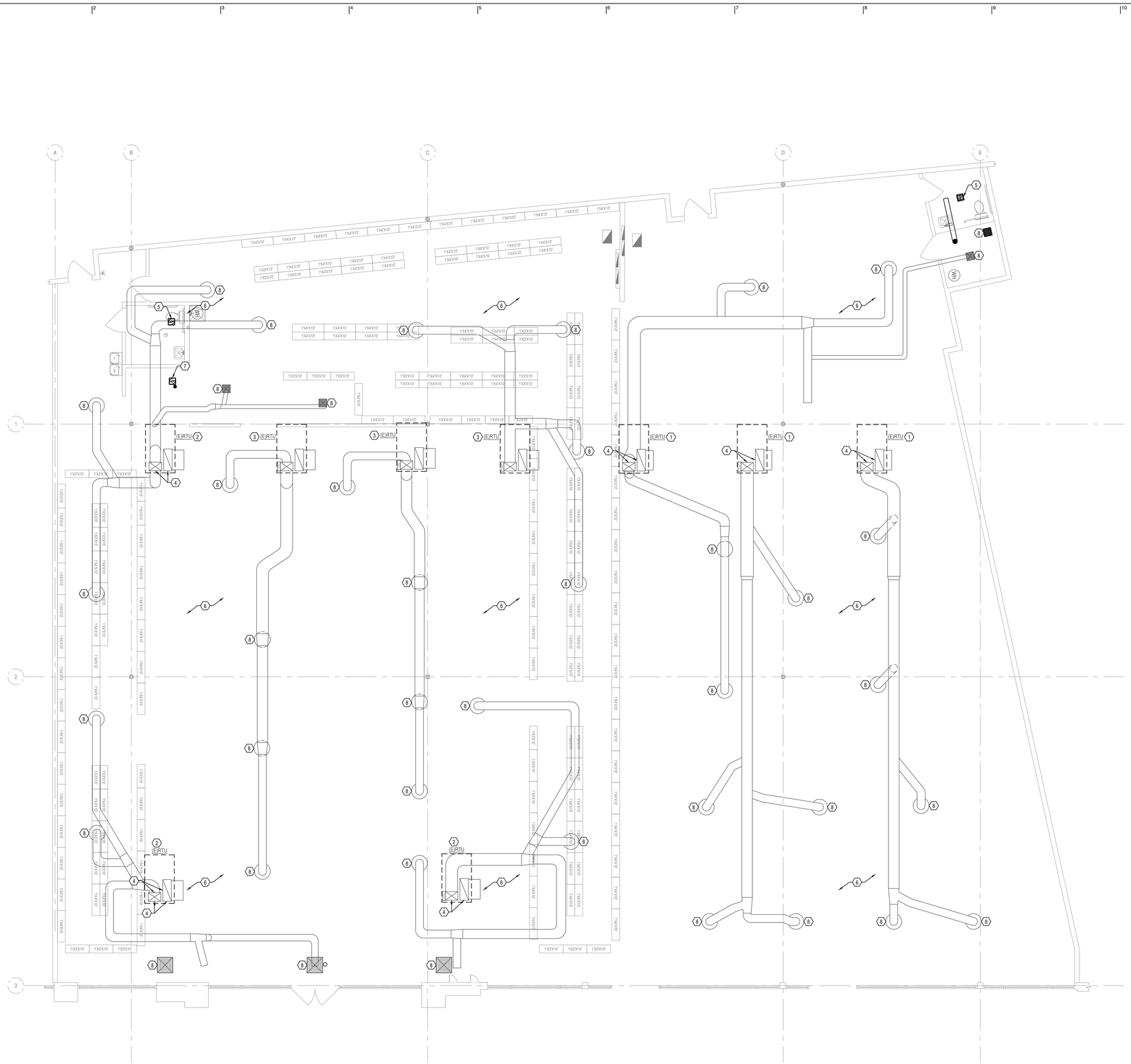

GENERAL NOTES

A. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR SITE INVESTIGATION PRIOR COMMENCEMENT OF WORK, AND SHALL INFORM ARCHITECT OF ANY DISCREPANCY.

KEY NOTES (#)

1. EXISTING HAVC UNIT ON ROOF TO BE REUSED.
2. EXISTING HVAC UNIT ON ROOF TO BE DEMOLISHED. EXISTING ROOF OPENING TO BE REUSED FOR NEW HVAC UNIT. VERIFY LOCATION ON SITE.
3. EXISTING HVAC UNIT TO BE ABANDONED IN PLACE.
4. EXISTING SUPPLY AND RETURN PLENUMS TO REMAIN AND RE-USE. FIELD VERIFY EXACT SIZE AND LOCATION ON SITE.
5. EXISTING CEILING MOUNTED EXHAUST FAN TO REMAIN RE-USE. VERIFY LOCATION ON SITE. SERVICE & BRING UP TO GOOD WORKING CONDITION.
6. DEMOLISH ALL EXISTING HVAC EQUIPMENT AND ALL ASSOCIATED RIGID AND FLEXIBLE DUCTWORK, DIFFUSERS, GRILLES, AND ALL ASSOCIATED CONTROL WIRING UNLESS OTHERWISE NOTED ON DRAWINGS.
7. REMOVE CEILING MOUNTED EXHAUST FAN. VERIFY LOCATION ON SITE.
8. REMOVE EXISTING SUPPLY DIFFUSER AND RETURN GRILLE. VERIFY LOCATION ON SITE.

DEMOLITION NOTES

A. MECHANICAL CONTRACTOR TO COORDINATE WITH ONSITE PM REGARDING DEMOLITION AND REMOVAL OF EXISTING HVAC EQUIPMENT.

B. REFER TO ARCHITECTURAL DEMOLITION REFLECTED CEILING PLAN FOR ADDITIONAL INFORMATION.

C. REMOVE EXISTING CEILING GRILLES & DUCTWORK AS SHOWN SHADED. VERIFY LOCATION ON SITE.

MECHANICAL DEMOLITION FLOOR PLAN | SCALE 3/16"=1'-0" | 1

NOTES | SCALE NONE | 2

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MECHANICAL
DEMOLITION PLAN

Sheet #:
M-100

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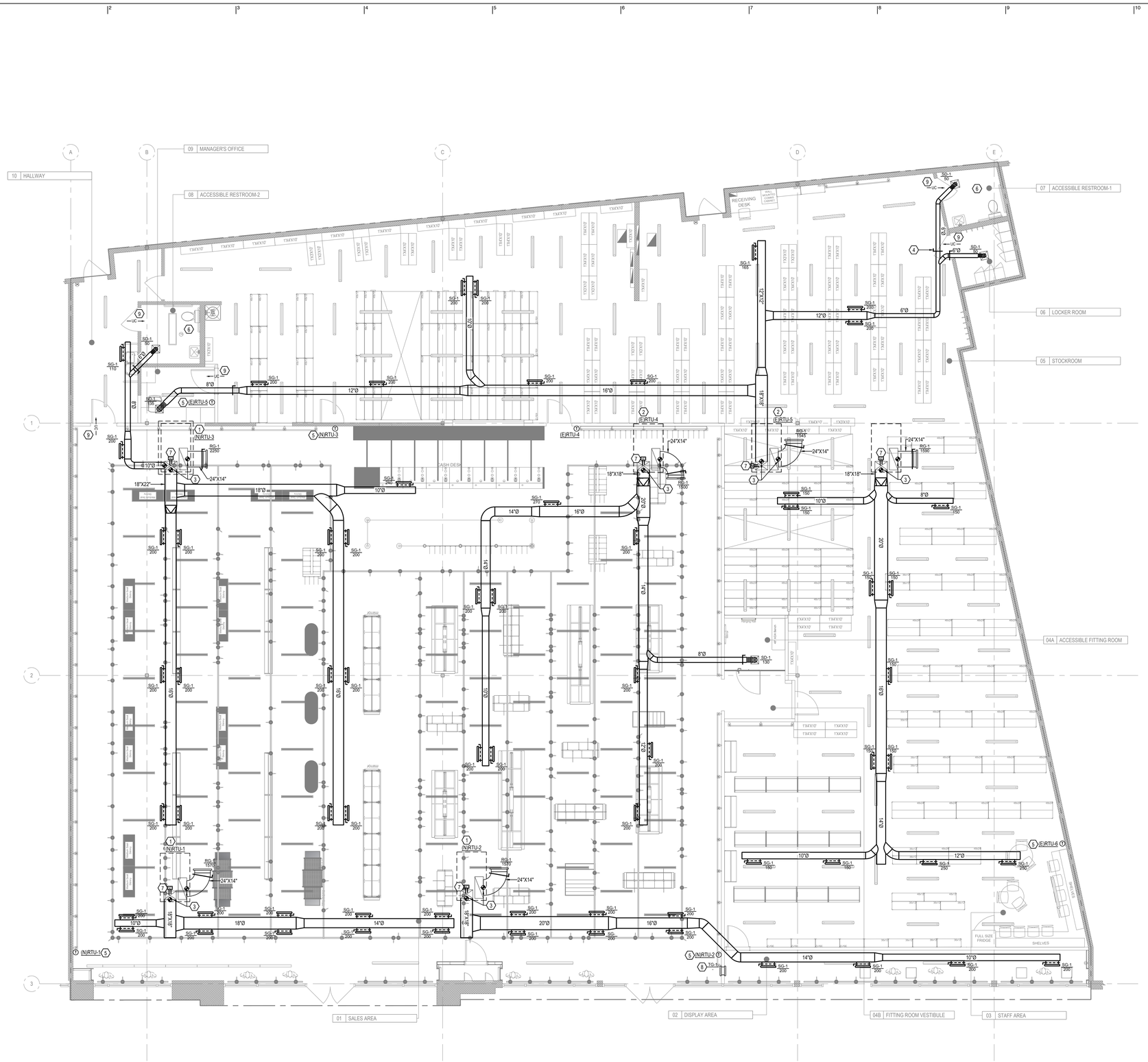

ROOFTOP EQUIPMENT NOTES

- ROOF EQUIPMENT, INCLUDING BUT NOT LIMITED TO HVAC EQUIPMENT, KITCHEN EQUIPMENT, DUCTS, AND PIPING SHALL BE SHOWN ON A ROOF PLAN TO BE INCLUDED IN TENANT'S DRAWINGS SUBMISSION. SUCH EQUIPMENT SHALL NOT BE VISIBLE FROM THE RING ROAD, LOCATED WITHIN THE DESIGNATED ROOF AREA OF THE PREMISES AND MINIMUM OF 5'-0" FROM THE VERTICAL PLANE OF ANY DEMISING PARTITION LOCATED. EQUIPMENT SCREENS OR SCREEN WALLS MAY BE REQUIRED AND SHALL BE APPROVED IN WRITING BY LANDLORD UNDER SEPARATE COVER. THE TENANT MUST LOCATE ANY MECHANICAL EQUIPMENT AIR INTAKE NO CLOSER THAN 10'0" TO ANY OTHER ROOF TOP MECHANICAL EQUIPMENT INTAKE OR EXHAUST.
- IF THE TENANT INTENDS TO ADD NEW ROOFTOP MECHANICAL EQUIPMENT OR REPLACE EXISTING ROOFTOP EQUIPMENT WITH HEAVIER UNITS, THE TENANT MUST PROVIDE AT ITS SOLE EXPENSE A LICENSED STRUCTURAL ENGINEER'S REVIEW OF THE PROPOSED NEW ROOF EQUIPMENT. THE STRUCTURAL ENGINEER'S ANALYSIS MUST DEFINITIVELY CONCLUDE THAT THE STRUCTURE CAN SUPPORT THE WEIGHT OF THE UNIT AS IS, OR IF THE STRUCTURE CANNOT SUPPORT THE ADDITIONAL WEIGHT, THEN THE APPROPRIATE STRUCTURAL REINFORCEMENT DRAWINGS/DETAILS MUST BE SUBMITTED. STRUCTURAL DETAILS ARE TO BE SIGNED, SEALED, AND SUBMITTED TO THE LANDLORD PRIOR TO INSTALLATION FOR THEIR RECORDS BY A LICENSED STRUCTURAL ENGINEER WITH LEGALLY ACTIVE REGISTRATION IN THE STATE IN WHICH THE PROJECT IS LOCATED. IF STRUCTURAL REINFORCEMENTS ARE NEEDED, SUCH DRAWINGS MUST ALSO BE SUBMITTED TO AND APPROVED BY THE LOCAL AHJ PRIOR TO THE INSTALLATION OR MODIFICATION OF ANY ROOF TOP EQUIPMENT. LANDLORD RESERVES THE RIGHT TO HAVE A 3RD PARTY ENGINEER REVIEW TENANT'S DESIGN AND MAY REQUIRE TENANT TO PROVIDE DOCUMENTATION FROM A 3RD PARTY INSPECTOR TO VERIFY THAT STRUCTURAL INSTALLATION HAS BEEN INSTALLED PER THE STAMPED AND APPROVED DRAWINGS.
- IN CONNECTION WITH ANY ROOF TOP EQUIPMENT WORK, THE TENANT SHALL MAINTAIN PROPER ROOF DRAINAGE TO EXISTING DRAIN LOCATIONS AND PROVIDE ROOFING, FLASHING, AND WATERPROOFING FOR INSTALLATION OF NEW CURB PER LANDLORD'S CRITERIA AT TENANT'S SOLE EXPENSE.
- CONDENSATE SHALL DRAIN INTO AN INTERIOR FLOOR DRAIN OR MOP SINK WITHIN THE PREMISES OR FOLLOW THE EXISTING CONDITIONS CONDENSATE DRAIN LINE CONFIGURATION ON THE ROOF. CONSULT WITH PROPERTY'S OPERATIONS DIRECTOR FOR THE APPROVED CONDENSATE DRAIN LINE CONFIGURATION PRIOR TO START OF CONSTRUCTION.
- TENANT SHALL LABEL ALL ROOF TOP EQUIPMENT INDICATING: TENANT NAME, SPACE NUMBER, AND EQUIPMENT IDENTIFICATION (IE: FELLOWS, #1700, RTU-1) PER LANDLORD'S DESIGN CRITERIA.
- EQUIPMENT THAT UTILIZES CONDENSER COILS SHALL BE EQUIPPED WITH HAIL GUARDS.
- LANDLORD REQUIRES ALL FOOD TENANTS TO INSTALL A GREASE GUARD BETWEEN ITS KITCHEN HOOD EXHAUST FAN AND THE EXISTING ROOF MATERIAL. SIMON PROPERTY GROUP REQUIRES ALL FOOD USE TENANTS TO INSTALL ONE OF TWO GREASE COLLECTION SYSTEM OPTIONS: "GREASE-GUARD G-2," MANUFACTURED BY ROOFTOP DEFENSE SYSTEMS: T: 1.800.913.7034 OR "GREASE GUTTER," MANUFACTURED BY OMNI CONTAINMENT SYSTEMS, T: 877.226.6824.
- LANDLORD REQUIRES ALL FOOD TENANTS TO INSTALL THEIR EXHAUSTS A MINIMUM OF 10FT FROM SURROUNDING INTAKES INCLUDING ADJACENT TENANT INTAKES, HOWEVER 20FT-25FT OF SEPARATION IS STRONGLY RECOMMENDED.
- ENSURE WALK PADS SURROUND NEW UNITS.
- ENSURE ALL ROOF PENETRATIONS HAVE BOOTS.
- LANDLORDS STRONGLY PREFERS USE OF ENERGY STAR PRODUCTS AND/OR EQUIPMENT WHENEVER POSSIBLE DURING TENANT BUILD OUT, WHICH CAN REDUCE ENERGY CONSUMPTION.
- FOR ADDITIONAL INFORMATION VISIT WWW.ENERGYSTAR.GOV/PRODUCTS

GENERAL NOTES

A. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR SITE INVESTIGATION PRIOR COMMENCEMENT OF WORK, AND SHALL INFORM ARCHITECT OF ANY DISCREPANCY.

B. COORDINATE DUCT ROUTING WITH EXISTING PIPING, CONDUITS AND STRUCTURAL MEMBERS. DUCTWORK INSULATION SHALL BE AT LEAST 3" FROM LIGHT HOUSINGS. OFFSET AS REQUIRED.

C. EXHAUST OUTLET TO BE MIN. 10 FEET AWAY FROM ALL BUILDING OPENINGS & OUTSIDE AIR INTAKE.

D. LABEL ALL ROOFTOP UNITS AND EQUIPMENT WITH EQUIPMENT TAG.

E. DO NOT ROUTE DUCTWORK OR PIPING ABOVE ELECTRICAL PANELS. VERIFY NO EXISTING DUCTWORK OR PIPING ARE INSTALLED ABOVE PANELS. RELOCATE AS NECESSARY.

F. MALL ROOMS/AREAS MUST HAVE A RETURN AIR PATH BACK TO HVAC UNIT SERVING THE SPACE. CONTRACTOR TO VERIFY FIELD CONDITION ON SITE AND COMPLY WITH THIS REQUIREMENT.

KEY NOTES

1. OUTLINE OF NEW HVAC UNIT ON ROOF MOUNTED ON EXISTING CURB. PROVIDE CURB ADAPTER AS NEEDED. VERIFY SIZE AND LOCATION ON SITE.
2. OUTLINE OF EXISTING HVAC UNIT ON ROOF MOUNTED ON EXISTING CURB.
3. CONNECT NEW SUPPLY & RETURN AIR DUCTS TO EXISTING PLENUMS. VERIFY SIZE & LOCATION ON SITE.
4. VOLUME DAMPER (TYPICAL)
5. NEW WALL-MOUNTED THERMOSTAT @ 48" AFF. VERIFY LOCATION ON SITE.
6. EXISTING CEILING MOUNTED EXHAUST FAN TO REMAIN. SERVICE & BRING UP TO GOOD WORKING CONDITION. EXHAUST DUCT CONNECTION TO COMMON MALL EXHAUST DUCT TO REMAIN. VERIFY LOCATION ON SITE.
7. PROVIDE DUCT SMOKE DETECTOR TO SHUT DOWN UNIT UPON SMOKE DETECTION IF NONE EXISTING.
8. TRANSFER GRILLE ON BOTH SIDE OF WALL. MOUNT AS HIGH AS POSSIBLE.
9. MIN 1" UNDERCUT DOOR.

LANDLORD NOTES

- ANY CHANGES AND/OR UPGRADES TO TENANT'S EXISTING MECHANICAL SYSTEMS SHALL COMPLY WITH ALL CODES AND PROPERTY CRITERIA.
- NO PITCH POCKETS ARE PERMITTED ON THE ROOF FOR ANY CONDENSATE DRAINS, REFRIGERANT PIPING, POWER OR CONTROL WIRING. ALL CONNECTIONS ARE TO BE MADE INSIDE THE EQUIPMENT CURB OR THROUGH PRE-MANUFACTURED PIPING CURB.
- NOTHING IS PERMITTED TO BE ATTACHED TO, SUSPENDED FROM, OR PENETRATE LANDLORD'S STRUCTURE OR ROOF DECK. YOU MAY ATTACH, NON-DESTRUCTIVELY, TO OR SUSPEND FROM THE TOP CHORD OF THE JOIST OR THE STRUCTURAL STEEL WHICH EXISTS WITHIN THE TENANT SPACE. WHEN ATTACHING TO LANDLORD'S STRUCTURE, DO NOT DRILL, WELD, SCREW, OR SHOOT INTO STRUCTURE. ALTERNATIVE METHODS OF ATTACHMENT ONLY, NOTHING TO DAMAGE LANDLORD'S BASE BUILDING STRUCTURE. TENANT SHALL PROVIDE SIGNED AND SEALED STRUCTURAL DRAWINGS, BY A STRUCTURAL ENGINEER WITH LEGALLY ACTIVE REGISTRATION AS INDICATED BY ALL JURISDICTIONAL REQUIREMENTS, FOR ALL STRUCTURAL MODIFICATIONS TO THE SPACE FOR LANDLORD RECORDS.
- ALL PENETRATIONS TO ROOF MUST BE APPROVED BY LANDLORD. ALL RELATED ROOF WORK MUST BE DONE BY PROPERTY'S DESIGNATED ROOFING CONTRACTOR, AT TENANT'S EXPENSE. COORDINATE ALL WORK WITH PROPERTY MANAGEMENT ON SITE.
- TENANT MUST REMOVE ALL ABANDONED ROOFTOP AND/OR MECHANICAL EQUIPMENT ABOVE THE LEASED PREMISES AND WITHIN THE LEASED PREMISES, AT TENANT EXPENSE. PATCH AND REPAIR ROOF BACK TO A FLUSH FINISHED INFILL AS NEEDED.
- TENANT'S GC TO LABEL ALL ROOF TOP EQUIPMENT WITH TENANT NAME SPACE NUMBER AND EQUIPMENT IDENTIFICATION (IE: FELLOWS, #1700, RTU-1,) PER MALL SPECIFICATIONS/ STANDARDS.
- ALL PIPING ON ROOF SHALL BE SUPPORTED ON PRE-MANUFACTURED PIPE SUPPORTS (DURABLOCK, OR SIMILAR) INSTALLED ON CARRY TREAD (OR SIMILAR ROOFING SLIP SHEETS), SPACED PROPERLY TO SUPPORT PIPING. TREATED WOOD SUPPORTS ARE NOT PERMITTED.
- ALL EXPOSED DUCTWORK SHALL BE SHEET METAL. FLEX DUCT MAY ONLY BE USED IN RUNS OF 5'-0" OR LESS AND ONLY PERMITTED ABOVE GRID OR DRYWALL CEILINGS. RIGID BOARD DUCTWORK CAN BE USED ABOVE GRID OR DRYWALL CEILINGS, AS WELL AS FLEX CONNECTIONS.
- AT CONCLUSION OF PROJECT, HVAC SYSTEM MUST BE TESTED AND BALANCED BY A LICENSED CONTRACTOR. COPY OF BALANCE REPORT MUST BE PROVIDED TO PROPERTY MANAGEMENT OFFICE ON-SITE.
- HVAC SYSTEM CAPACITY AT TENANT'S REQUEST BEYOND THE STANDARD LANDLORD PROVIDED 1TON/350SF, THE TENANT ASSUMES RESPONSIBILITY TO MAINTAIN NO MORE THAN A 0.10" POSITIVE PRESSURE WITHIN THE SPACE WITH RESPECT TO AMBIENT. FAILURE TO MAINTAIN CONDITIONS BELOW THIS MAXIMUM PRESSURE MAY RESULT IN DAMAGE TO BUILDING ROOFING SYSTEMS FOR WHICH THE TENANT WILL BE HELD RESPONSIBLE. THE TENANT IS ENCOURAGED TO UTILIZE A PRUDENT MEANS OF PRESSURE CONTROL IN THEIR HVAC SYSTEM DESIGN.

- IF THE TENANT PROPOSES TO REPLACE ANY OF THE EXISTING HVAC UNITS (R.T.U.'S) THE TENANT MUST FOLLOW THE CRITERIA BELOW AND SUBMIT ALL REQUESTED INFORMATION TO THE LANDLORD FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION OF THE NEW UNIT(S).

SEE THE CRITERIA BELOW REGARDING RTU REPLACEMENT:

1. PROVIDE LANDLORD WITH QUANTITY, BRAND, MODEL # AND INSTALLED WEIGHTS FOR THE PROPOSED REPLACEMENT HVAC UNITS.
2. PROVIDE LANDLORD WITH QUANTITY, BRAND, MODEL # AND INSTALLED WEIGHTS FOR EXISTING UNITS.
3. PROVIDE LANDLORD WITH WEIGHT COMPARISON FOR EXISTING VERSUS REPLACEMENT UNITS - WILL THE NEW UNITS WEIGH MORE OR LESS THAN EXISTING UNITS?
4. INDICATE IF THE REPLACEMENT UNITS WILL BE INSTALLED IN SAME LOCATIONS AS EXISTING UNITS, AND ON SAME ROOF CURBS.
5. INDICATE IF NEW ROOF CURB ADAPTERS WILL BE INSTALLED.
6. OR INDICATE IF UNIT WILL BE INSTALLED IN NEW LOCATION SO NEW ROOF PENETRATIONS & CURBS WILL BE REQUIRED.
7. WHENEVER A REPLACEMENT UNIT WEIGHS MORE THAN THE EXISTING UNIT, TENANT OR THEIR HVAC CONTRACTOR ARE REQUIRED TO SUBMIT WRITTEN CONFIRMATION THAT THE EXISTING ROOF STRUCTURE, TRUSSES AND/OR ROOF FRAMING WERE DESIGNED TO CARRY THE HEAVIER INSTALLED WEIGHT LOAD OF NEW HVAC UNIT(S).
8. WRITTEN CONFIRMATION MUST INCLUDE THE WEIGHT OF ANY APPLICABLE NEW ROOF CURBS OR CURB ADAPTERS.
9. TENANT OR HVAC CONTRACTOR HAS TO PROVIDE LANDLORD WITH A WET-SIGNED & STAMPED LETTER AND CALCULATIONS FROM A LICENSED STRUCTURAL ENGINEER PRIOR TO SCHEDULING HVAC REPLACEMENT WORK. WET-SIGNED & STAMPED LETTER AND CALCULATIONS FROM A LICENSED STRUCTURAL ENGINEER MAY BE SUBMITTED TO LANDLORD VIA EMAIL.

ALLOW ONE WEEK FOR LANDLORD TO REVIEW ABOVE INFORMATION AND TO PREPARE AN APPROVAL LETTER FOR HVAC UNIT REPLACEMENT.

HVAC CONTRACTORS MUST CONTACT THE CENTER OFFICE A WEEK IN ADVANCE OF INSTALLATION FOR THEIR CERTIFICATE OF INSURANCE REQUIREMENTS. THEY MAY ALSO REQUIRE A COI FROM THE CRANE COMPANY.

- HVAC CONTRACTORS MUST CONTACT THE CENTER OFFICE REGARDING PROPOSED SCHEDULE & TIMING. HVAC UNIT REPLACEMENT CANNOT START UNTIL LANDLORD HAS APPROVED THE HVAC REPLACEMENT WORK IN WRITING.
- TENANT MUST USE THE LANDLORD'S REQUIRED ROOFER.

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Client:

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INDIANAPOLIS, IN 46235

MECHANICAL FLOOR PLAN

Sheet #:

M-101

MECHANICAL FLOOR PLAN | SCALE 3/16"=1'-0" | 1

NOTES | SCALE NONE | -

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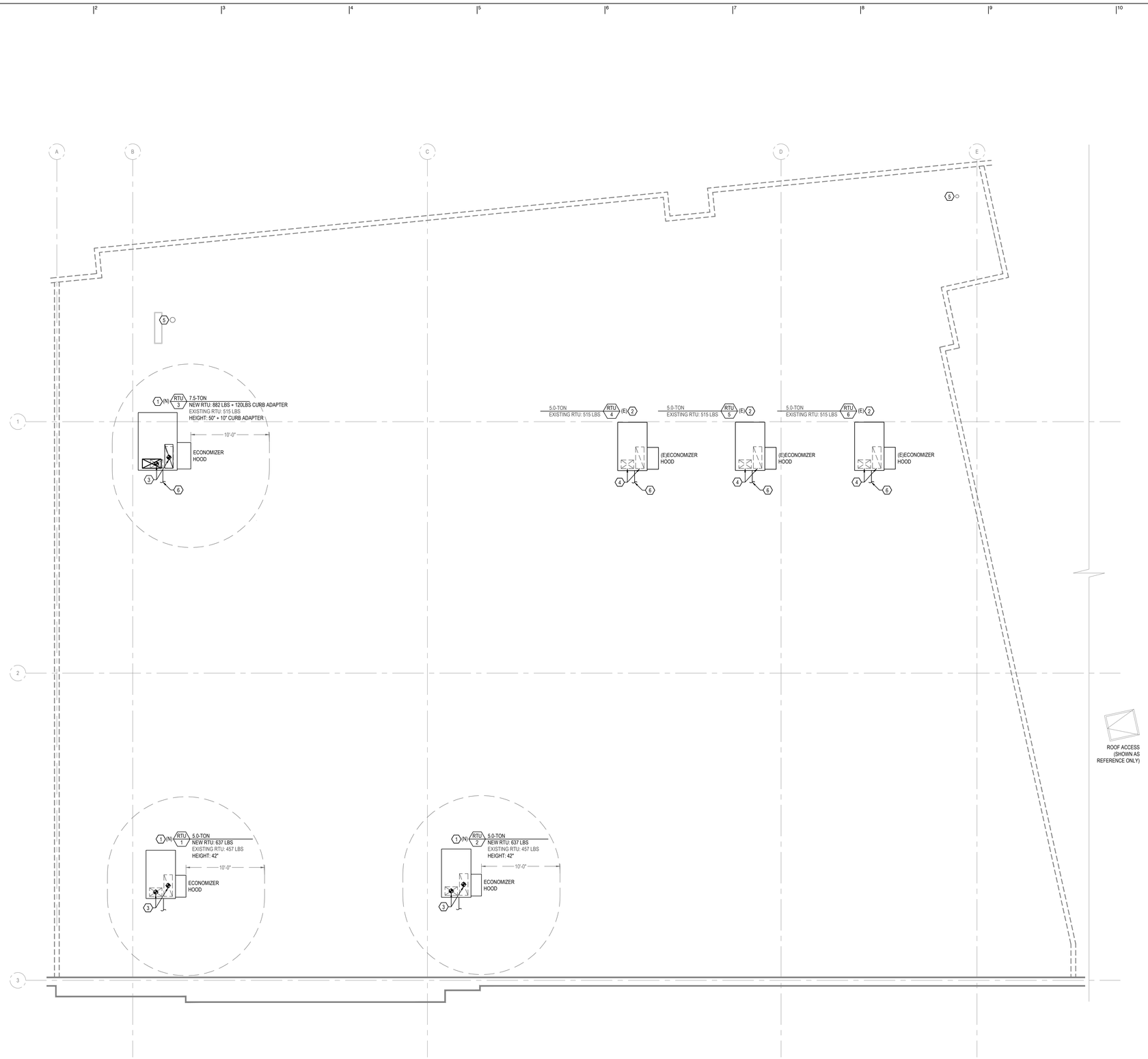

ROOFTOP EQUIPMENT NOTES

- ROOF EQUIPMENT, INCLUDING BUT NOT LIMITED TO HVAC EQUIPMENT, KITCHEN EQUIPMENT, DUCTS, AND PIPING SHALL BE SHOWN ON A ROOF PLAN TO BE INCLUDED IN TENANT'S DRAWINGS SUBMISSION. SUCH EQUIPMENT SHALL NOT BE VISIBLE FROM THE RING ROAD, LOCATED WITHIN THE DESIGNATED ROOF AREA OF THE PREMISES AND MINIMUM OF 5'-0" FROM THE VERTICAL PLANE OF ANY DEMISING PARTITION LOCATED. EQUIPMENT SCREENS OR SCREEN WALLS MAY BE REQUIRED AND SHALL BE APPROVED IN WRITING BY LANDLORD UNDER SEPARATE COVER. THE TENANT MUST LOCATE ANY MECHANICAL EQUIPMENT AIR INTAKE NO CLOSER THAN 10'0" TO ANY OTHER ROOF TOP MECHANICAL EQUIPMENT INTAKE OR EXHAUST.
- IF THE TENANT INTENDS TO ADD NEW ROOFTOP MECHANICAL EQUIPMENT OR REPLACE EXISTING ROOFTOP EQUIPMENT WITH HEAVIER UNITS, THE TENANT MUST PROVIDE AT ITS SOLE EXPENSE A LICENSED STRUCTURAL ENGINEER'S REVIEW OF THE PROPOSED NEW ROOF EQUIPMENT. THE STRUCTURAL ENGINEER'S ANALYSIS MUST DEFINITIVELY CONCLUDE THAT THE STRUCTURE CAN SUPPORT THE WEIGHT OF THE UNIT AS IS, OR IF THE STRUCTURE CANNOT SUPPORT THE ADDITIONAL WEIGHT, THEN THE APPROPRIATE STRUCTURAL REINFORCEMENT DRAWINGS/DETAILS MUST BE SUBMITTED. STRUCTURAL DETAILS ARE TO BE SIGNED, SEALED, AND SUBMITTED TO THE LANDLORD PRIOR TO INSTALLATION FOR THEIR RECORDS BY A LICENSED STRUCTURAL ENGINEER WITH LEGALLY ACTIVE REGISTRATION IN THE STATE IN WHICH THE PROJECT IS LOCATED. IF STRUCTURAL REINFORCEMENTS ARE NEEDED, SUCH DRAWINGS MUST ALSO BE SUBMITTED TO AND APPROVED BY THE LOCAL AHJ PRIOR TO THE INSTALLATION OR MODIFICATION OF ANY ROOF TOP EQUIPMENT. LANDLORD RESERVES THE RIGHT TO HAVE A 3RD PARTY ENGINEER REVIEW TENANT'S DESIGN AND MAY REQUIRE TENANT TO PROVIDE DOCUMENTATION FROM A 3RD PARTY INSPECTOR TO VERIFY THAT STRUCTURAL INSTALLATION HAS BEEN INSTALLED PER THE STAMPED AND APPROVED DRAWINGS.
- IN CONNECTION WITH ANY ROOF TOP EQUIPMENT WORK, THE TENANT SHALL MAINTAIN PROPER ROOF DRAINAGE TO EXISTING DRAIN LOCATIONS AND PROVIDE ROOFING, FLASHING, AND WATERPROOFING FOR INSTALLATION OF NEW CURB PER LANDLORD'S CRITERIA AT TENANT'S SOLE EXPENSE.
- CONDENSATE SHALL DRAIN INTO AN INTERIOR FLOOR DRAIN OR MOP SINK WITHIN THE PREMISES OR FOLLOW THE EXISTING CONDITIONS CONDENSATE DRAIN LINE CONFIGURATION ON THE ROOF. CONSULT WITH PROPERTY'S OPERATIONS DIRECTOR FOR THE APPROVED CONDENSATE DRAIN LINE CONFIGURATION PRIOR TO START OF CONSTRUCTION.
- TENANT SHALL LABEL ALL ROOF TOP EQUIPMENT INDICATING: TENANT NAME, SPACE NUMBER, AND EQUIPMENT IDENTIFICATION (IE: FELLOWS, #1700, RTU-1) PER LANDLORD'S DESIGN CRITERIA.
- EQUIPMENT THAT UTILIZES CONDENSER COILS SHALL BE EQUIPPED WITH HAIL GUARDS.
- LANDLORD REQUIRES ALL FOOD TENANTS TO INSTALL A GREASE GUARD BETWEEN ITS KITCHEN HOOD EXHAUST FAN AND THE EXISTING ROOF MATERIAL. SIMON PROPERTY GROUP REQUIRES ALL FOOD USE TENANTS TO INSTALL ONE OF TWO GREASE COLLECTION SYSTEM OPTIONS: "GREASE-GUARD G-2," MANUFACTURED BY ROOFTOP DEFENSE SYSTEMS: T: 1.800.913.7034 OR "GREASE GUTTER," MANUFACTURED BY OMNI CONTAINMENT SYSTEMS, T: 877.226.6824.
- LANDLORD REQUIRES ALL FOOD TENANTS TO INSTALL THEIR EXHAUSTS A MINIMUM OF 10FT FROM SURROUNDING INTAKES INCLUDING ADJACENT TENANT INTAKES, HOWEVER 20FT-25FT OF SEPARATION IS STRONGLY RECOMMENDED.
- ENSURE WALK PADS SURROUND NEW UNITS.
- ENSURE ALL ROOF PENETRATIONS HAVE BOOTS.
- LANDLORDS STRONGLY PREFERS USE OF ENERGY STAR PRODUCTS AND/OR EQUIPMENT WHENEVER POSSIBLE DURING TENANT BUILD OUT, WHICH CAN REDUCE ENERGY CONSUMPTION.
- FOR ADDITIONAL INFORMATION VISIT WWW.ENERGYSTAR.GOV/PRODUCTS

GENERAL NOTES

A. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR SITE INVESTIGATION PRIOR COMMENCEMENT OF WORK, AND SHALL INFORM ARCHITECT OF ANY DISCREPANCY.

B. COORDINATE DUCT ROUTING WITH EXISTING PIPING, CONDUITS AND STRUCTURAL MEMBERS. DUCTWORK INSULATION SHALL BE AT LEAST 3" FROM LIGHT HOUSINGS. OFFSET AS REQUIRED.

C. EXHAUST OUTLET TO BE MIN. 10 FEET AWAY FROM ALL BUILDING OPENINGS & OUTSIDE AIR INTAKE.

D. LABEL ALL ROOFTOP UNITS AND EQUIPMENT WITH EQUIPMENT TAG.

E. DO NOT ROUTE DUCTWORK OR PIPING ABOVE ELECTRICAL PANELS. VERIFY NO EXISTING DUCTWORK OR PIPING ARE INSTALLED ABOVE PANELS. RELOCATE AS NECESSARY.

F. MALL ROOMS/AREAS MUST HAVE A RETURN AIR PATH BACK TO HVAC UNIT SERVING THE SPACE. CONTRACTOR TO VERIFY FIELD CONDITION ON SITE AND COMPLY WITH THIS REQUIREMENT.

KEY NOTES ⟨#⟩

1. NEW PACKAGED HEAT PUMP ROOFTOP UNIT ON EXISTING CURB WITH CURB ADAPTER. CONTRACTOR TO FIELD VERIFY EXACT LOCATION, CONDITION, AND SIZE OF EXISTING CURB PRIOR TO ORDER OF CURB ADAPTER.
2. EXISTING PACKAGED HEAT PUMP ROOFTOP UNIT TO RE-USE. CONTRACTOR TO FIELD VERIFY EXACT LOCATION. REFURBISH TO 100% WORKING CONDITION. PERFORM MAINTENANCE CHECKLIST ON SHEET M-001.
3. CONNECT NEW SUPPLY & RETURN AIR DUCT TO EXISTING PLENUMS. EXISTING SUPPLY AND RETURN PLENUMS TO BELOW. CONTRACTOR TO VERIFY IN FIELD EXACT LOCATION AND SIZE. REFURBISH TO AIR TIGHT AND RUST FREE CONDITION.
4. EXISTING SUPPLY AND RETURN PLENUMS TO RE-USE. CONTRACTOR TO VERIFY FIELD THE EXACT SIZE, LOCATION, AND CONDITION. REFURBISH TO AIR TIGHT AND RUST FREE CONDITION.
5. EXISTING ROOF JACK TERMINATION FROM EXHAUST DUCT RISER BELOW. LOCATE A MINIMUM 10'-0" AWAY FROM ANY FORCED AIR INTAKE.
6. REFER TO PLUMBING DRAWINGS FOR CONDENSATE PIPING TERMINATION.

LANDLORD NOTES

- ANY CHANGES AND/OR UPGRADES TO TENANT'S EXISTING MECHANICAL SYSTEMS SHALL COMPLY WITH ALL CODES AND PROPERTY CRITERIA.
- NO PITCH POCKETS ARE PERMITTED ON THE ROOF FOR ANY CONDENSATE DRAINS, REFRIGERANT PIPING, POWER OR CONTROL WIRING. ALL CONNECTIONS ARE TO BE MADE INSIDE THE EQUIPMENT CURB OR THROUGH PRE-MANUFACTURED PIPING CURB.
- NOTHING IS PERMITTED TO BE ATTACHED TO, SUSPENDED FROM, OR PENETRATE LANDLORD'S STRUCTURE OR ROOF DECK. YOU MAY ATTACH, NON-DESTRUCTIVELY, TO OR SUSPEND FROM THE TOP CHORD OF THE JOIST OR THE STRUCTURAL STEEL WHICH EXISTS WITHIN THE TENANT SPACE. WHEN ATTACHING TO LANDLORD'S STRUCTURE, DO NOT DRILL, WELD, SCREW, OR SHOOT INTO STRUCTURE. ALTERNATIVE METHODS OF ATTACHMENT ONLY, NOTHING TO DAMAGE LANDLORD'S BASE BUILDING STRUCTURE. TENANT SHALL PROVIDE SIGNED AND SEALED STRUCTURAL DRAWINGS, BY A STRUCTURAL ENGINEER WITH LEGALLY ACTIVE REGISTRATION AS INDICATED BY ALL JURISDICTIONAL REQUIREMENTS, FOR ALL STRUCTURAL MODIFICATIONS TO THE SPACE FOR LANDLORD RECORDS.
- ALL PENETRATIONS TO ROOF MUST BE APPROVED BY LANDLORD. ALL RELATED ROOF WORK MUST BE DONE BY PROPERTY'S DESIGNATED ROOFING CONTRACTOR, AT TENANT'S EXPENSE. COORDINATE ALL WORK WITH PROPERTY MANAGEMENT ON SITE.
- TENANT MUST REMOVE ALL ABANDONED ROOFTOP AND/ OR MECHANICAL EQUIPMENT ABOVE THE LEASED PREMISES AND WITHIN THE LEASED PREMISES, AT TENANT EXPENSE. PATCH AND REPAIR ROOF BACK TO A FLUSH FINISHED INFILL AS NEEDED.
- TENANT'S GC TO LABEL ALL ROOF TOP EQUIPMENT WITH TENANT NAME SPACE NUMBER AND EQUIPMENT IDENTIFICATION (IE: FELLOWS, #1700, RTU-1,) PER MALL SPECIFICATIONS/ STANDARDS.
- ALL PIPING ON ROOF SHALL BE SUPPORTED ON PRE-MANUFACTURED PIPE SUPPORTS (DURABLOCK, OR SIMILAR) INSTALLED ON CARRY TREAD (OR SIMILAR ROOFING SLIP SHEETS), SPACED PROPERLY TO SUPPORT PIPING. TREATED WOOD SUPPORTS ARE NOT PERMITTED.
- ALL EXPOSED DUCTWORK SHALL BE SHEET METAL. FLEX DUCT MAY ONLY BE USED IN RUNS OF 5'-0" OR LESS AND ONLY PERMITTED ABOVE GRID OR DRYWALL CEILINGS. RIGID BOARD DUCTWORK CAN BE USED ABOVE GRID OR DRYWALL CEILINGS, AS WELL AS FLEX CONNECTIONS.
- AT CONCLUSION OF PROJECT, HVAC SYSTEM MUST BE TESTED AND BALANCED BY A LICENSED CONTRACTOR. COPY OF BALANCE REPORT MUST BE PROVIDED TO PROPERTY MANAGEMENT OFFICE ON-SITE.
- HVAC SYSTEM CAPACITY AT TENANT'S REQUEST BEYOND THE STANDARD LANDLORD PROVIDED 1TON/350SF, THE TENANT ASSUMES RESPONSIBILITY TO MAINTAIN NO MORE THAN A 0.10" POSITIVE PRESSURE WITHIN THE SPACE WITH RESPECT TO AMBIENT. FAILURE TO MAINTAIN CONDITIONS BELOW THIS MAXIMUM PRESSURE MAY RESULT IN DAMAGE TO BUILDING ROOFING SYSTEMS FOR WHICH THE TENANT WILL BE HELD RESPONSIBLE. THE TENANT IS ENCOURAGED TO UTILIZE A PRUDENT MEANS OF PRESSURE CONTROL IN THEIR HVAC SYSTEM DESIGN.
- IF THE TENANT PROPOSES TO REPLACE ANY OF THE EXISTING HVAC UNITS (R.T.U.'S) THE TENANT MUST FOLLOW THE CRITERIA BELOW AND SUBMIT ALL REQUESTED INFORMATION TO THE LANDLORD FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION OF THE NEW UNIT(S).

SEE THE CRITERIA BELOW REGARDING RTU REPLACEMENT:

1. PROVIDE LANDLORD WITH QUANTITY, BRAND, MODEL # AND INSTALLED WEIGHTS FOR THE PROPOSED REPLACEMENT HVAC UNITS.
2. PROVIDE LANDLORD WITH QUANTITY, BRAND, MODEL # AND INSTALLED WEIGHTS FOR EXISTING UNITS.
3. PROVIDE LANDLORD WITH WEIGHT COMPARISON FOR EXISTING VERSUS REPLACEMENT UNITS - WILL THE NEW UNITS WEIGH MORE OR LESS THAN EXISTING UNITS?
4. INDICATE IF THE REPLACEMENT UNITS WILL BE INSTALLED IN SAME LOCATIONS AS EXISTING UNITS, AND ON SAME ROOF CURBS.
5. INDICATE IF NEW ROOF CURB ADAPTERS WILL BE INSTALLED.
6. OR INDICATE IF UNIT WILL BE INSTALLED IN NEW LOCATION SO NEW ROOF PENETRATIONS & CURBS WILL BE REQUIRED.
7. WHENEVER A REPLACEMENT UNIT WEIGHS MORE THAN THE EXISTING UNIT, TENANT OR THEIR HVAC CONTRACTOR ARE REQUIRED TO SUBMIT WRITTEN CONFIRMATION THAT THE EXISTING ROOF STRUCTURE, TRUSSES AND/OR ROOF FRAMING WERE DESIGNED TO CARRY THE HEAVIER INSTALLED WEIGHT LOAD OF NEW HVAC UNIT(S).
8. WRITTEN CONFIRMATION MUST INCLUDE THE WEIGHT OF ANY APPLICABLE NEW ROOF CURBS OR CURB ADAPTERS.
9. TENANT OR HVAC CONTRACTOR HAS TO PROVIDE LANDLORD WITH A WET-SIGNED & STAMPED LETTER AND CALCULATIONS FROM A LICENSED STRUCTURAL ENGINEER PRIOR TO SCHEDULING HVAC REPLACEMENT WORK. WET-SIGNED & STAMPED LETTER AND CALCULATIONS FROM A LICENSED STRUCTURAL ENGINEER MAY BE SUBMITTED TO LANDLORD VIA EMAIL.

ALLOW ONE WEEK FOR LANDLORD TO REVIEW ABOVE INFORMATION AND TO PREPARE AN APPROVAL LETTER FOR HVAC UNIT REPLACEMENT.

HVAC CONTRACTORS MUST CONTACT THE CENTER OFFICE A WEEK IN ADVANCE OF INSTALLATION FOR THEIR CERTIFICATE OF INSURANCE REQUIREMENTS. THEY MAY ALSO REQUIRE A COI FROM THE CRANE COMPANY.

- HVAC CONTRACTORS MUST CONTACT THE CENTER OFFICE REGARDING PROPOSED SCHEDULE & TIMING. HVAC UNIT REPLACEMENT CANNOT START UNTIL LANDLORD HAS APPROVED THE HVAC REPLACEMENT WORK IN WRITING.
- TENANT MUST USE THE LANDLORD'S REQUIRED ROOFER.

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1

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MECHANICAL ROOF PLAN

Sheet #:

M-201 ⚠

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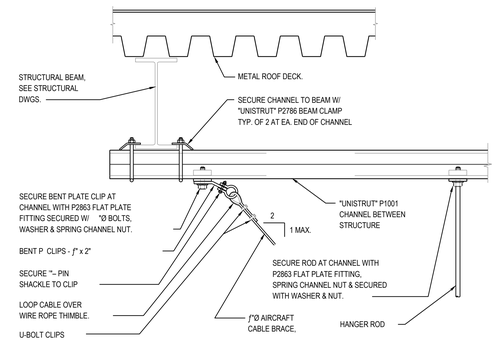
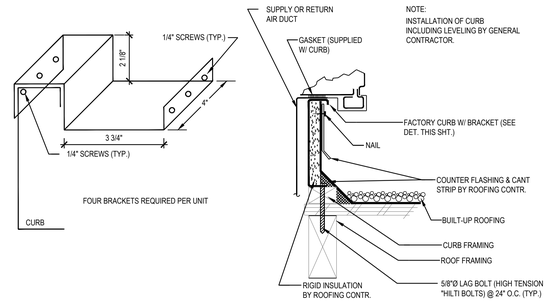
MECHANICAL ROOF PLAN | SCALE 3/16"=1'-0" | 1

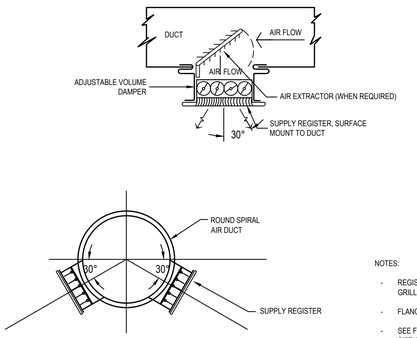
NOTES | SCALE NONE | -



HANGER ROD/CABLE ATTACHMENT TO METAL STRUCTURE — NOT TO SCALE — 4

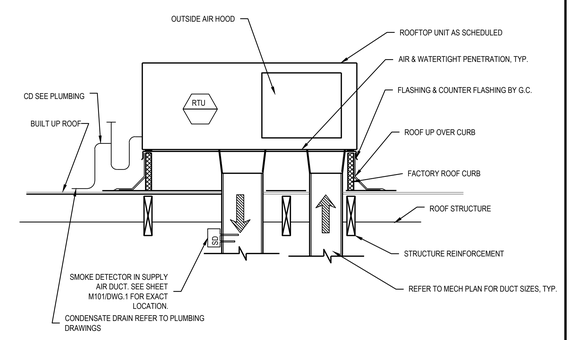


ROOF CURB ATTACHMENT DETAIL — NOT TO SCALE — 6

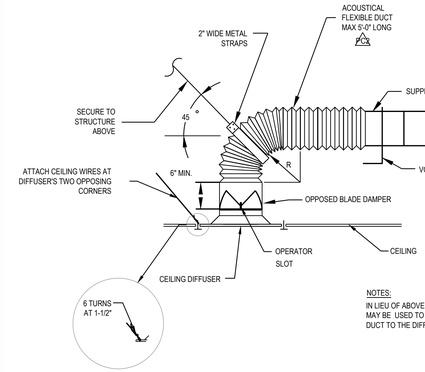


NOTES:
- REGISTER CONTAINS CONTROL AT GRILLE GRILLE
- FLANGES MUST COVER DUCT FLANGES
- SEE FLOOR PLAN DRAWINGS FOR DUCT SIZE AND LOCATION OF REGISTERS

DUCT MOUNTED DIFFUSER/REGISTER — 3



ROOFTOP UNIT DETAIL — NOT TO SCALE — 5



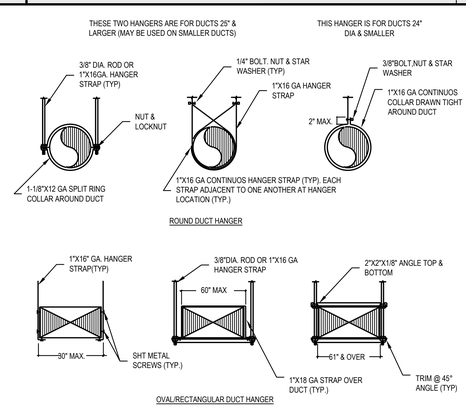
NOTES:
IN LIEU OF ABOVE DETAIL METAL PLENUM MAY BE USED TO CONNECT THE BRANCH DUCT TO THE DIFFUSERS. ELBOW R/D=1.5

CEILING DIFFUSER — NOT TO SCALE — 2

SINGLE HANGER MAX LOAD	
STRAP	WIRE OR ROD
1" X 22 GA. - 260 LBS 1" X 20 GA. - 260 LBS 1" X 18 GA. - 420 LBS 1" X 16 GA. - 700 LBS 1-1/2" X 16 GA. - 1100 LBS	(12 GA.) 0.106" 80 LBS (10 GA.) 0.135" 80 LBS 0.162" 160 LBS 1/4" 270 LBS 3/8" 680 LBS

MINIMUM HANGER SIZES FOR ROUND DUCT				
DIA. (IN)	MAXIMUM SPACING	WIRE DIA.	ROD	STRAP
6-10	12'	ONE 12 GA.	1/4"	1" X 22 GA.
11-18	12'	TWO 12 GA. OR ONE 8 GA.	1/4"	1" X 22 GA.
19-24	12'	TWO 10 GA.	1/4"	1" X 22 GA.

NOTES:
1. REFER TO SPECIFICATIONS FOR HANGER SPACINGS.
2. 2 ATTACHMENTS TO OVERHEAD STRUCTURE SHALL BE MADE IN ACCORDANCE WITH STRUCTURAL ENGINEERS REQUIREMENTS AND WEIGHT LIMITATIONS. ALL ATTACHMENT METHODS TO STRUCTURE SHALL BE SUBMITTED TO STRUCTURAL ENGINEER FOR REVIEW.



DUCT SUPPORTS — NOT TO SCALE — 1

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MECHANICAL DETAILS

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M-301

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LL ELECTRICAL COMMENTS

- TENANT IS REQUIRED TO MAKE A FIELD SURVEY OF THE EXISTING ELECTRICAL SERVICE TO ENSURE THAT THE PROPOSED TOTAL CONNECTED LOAD DOES NOT EXCEED THE EXISTING ELECTRICAL SERVICE CAPACITY. VERIFY EXISTING ELECTRICAL SERVICE, SUB-FEED WIRING & PANELS PRIOR TO START OF TENANT'S ELECTRICAL WORK. EXISTING CONDUITS, EXPOSED LOW VOLTAGE WIRING, WATER PIPES, DRAIN LINES, ETC. MAY BE INSTALLED EITHER ABOVE THE EXISTING CEILING, INSIDE THE ORIGINAL CONCRETE SLAB OR JUST BELOW THE SLAB. LANDLORD'S AS BUILT DRAWINGS MAY NOT ACCURATELY REFLECT THESE INSTALLATIONS. ANY/ ALL MODIFICATIONS OR UPGRADES NEEDED ARE SUBJECT TO LANDLORD'S PRIOR APPROVAL, AND WILL BE COMPLETED BY TENANT/ TENANT'S GC, AT TENANT'S SOLE EXPENSE.

- EMT (ELECTRIC METALLIC TUBING) SHALL BE USED IN ALL DEMISING WALLS, HOME RUNS, AND BETWEEN JUNCTION BOXES AND PULL BOXES. MC CABLE MAY BE USED IN OTHER APPLICATION AS ALLOWED BY THE AUTHORITY HAVING JURISDICTION (AHJ) OR AS APPROVED BY THE LANDLORD. ALL EXPOSED CONDUIT, RIGID OR MC CABLE, SHALL BE INSTALLED IN TIGHT STRAIGHT LINES, PARALLEL OR PERPENDICULAR TO THE BUILDING STRUCTURE. DO NOT LOOP EXCESS MC CABLE IN CEILING SPACE OR WALL CAVITY. WHERE MC CABLE IS APPROVED FOR INSTALLATION, NO "SLACK" WILL BE PERMITTED IN EXPOSED APPLICATIONS. MC CABLE SUPPORT SHALL BE PROVIDED AS OFTEN AS REQUIRED TO MAINTAIN A TIGHT INSTALLATION.

- ALL PANELS SHALL BE UL LABELED WITH BOLT ON TYPE CIRCUIT BREAKERS. PANELS SHALL NOT BE RECESSED IN DEMISING AND SHALL BE MOUNTED ON PLYWOOD BACKER PANELS OR UNISTRUT SUPPORTS UNLESS RECESSED INTO A FURRED OUT OR INTERIOR WALL.

- PANEL PHASE LOADS TO BE BALANCED WITHIN 10%. FIELD VERIFY ALL RISER DIAGRAM DETAILS.

- NOTHING IS PERMITTED TO BE ATTACHED TO, SUSPENDED FROM, OR PENETRATE LANDLORD'S STRUCTURE, FLOOR DECK, OR ROOF DECK. YOU MAY ATTACH, NON-DESTRUCTIVELY, TO OR SUSPEND FROM THE TOP CHORD OF THE JOIST OR THE STRUCTURAL STEEL WHICH EXISTS ABOVE THE TENANT space. WHEN ATTACHING TO LANDLORD'S STRUCTURE, DO NOT DRILL, WELD, SCREW, OR SHOOT INTO STRUCTURE. ALTERNATIVE METHODS OF ATTACHMENT ONLY, NOTHING TO DAMAGE LANDLORD'S BASE BUILDING STRUCTURE. TENANT SHALL PROVIDE SIGNED AND SEALED STRUCTURAL DRAWINGS, BY A STRUCTURAL ENGINEER WITH LEGALLY ACTIVE REGISTRATION AS INDICATED BY ALL JURISDICTIONAL REQUIREMENTS, FOR ALL STRUCTURAL MODIFICATIONS FOR LANDLORD RECORDS.

- ALL EQUIPMENT, DEVICES AND FIXTURES SHALL BE GROUNDED IN COMPLIANCE WITH NEC AND UL REQUIREMENTS.

- ALL ADDITIONS, EXTENSIONS OR MODIFICATIONS SHALL BE APPROVED BY LANDLORD PRIOR TO INSTALLATION. ALL FIRE ALARM RELATED WORK SHALL COMPLY WITH ALL APPLICABLE CODES AND SHALL BE INSTALLED BY LICENSED, CERTIFIED CONTRACTORS ONLY. ALL CONNECTIONS TO THE LANDLORD'S BASE BUILDING FIRE ALARM SYSTEM SHALL BE COORDINATED WITH THE PROPERTY MANAGEMENT TEAM.

- ALL LOW VOLTAGE CABLING (TELEPHONE, DATA, SECURITY, CCTV, BACKGROUND MUSIC, ETC. SHALL BE INSTALLED PER APPLICABLE CODES AND TENANT SHALL SECURE ALL REQUIRED PERMITS FOR CABLING INSTALLATION. ALL CABLING SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, AND SHALL BE INSTALLED PARALLEL AND PERPENDICULAR TO BUILDING WALLS SIMILAR TO ELECTRICAL CONDUIT SYSTEMS. "LOOPING" OF CABLE IN EXPOSED SPACES WILL NOT BE PERMITTED.

- ALL BACKGROUND MUSIC/PAGING SYSTEMS SHALL BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM TO ALLOW FOR SHUTDOWN OF THE SYSTEM IN AN EMERGENCY SITUATION. CONNECT TO THE EXISTING BUILDING SHUTDOWN RELAY IF ALREADY PROVIDED.

- SLAB REQUIREMENTS: TENANT'S GENERAL CONTRACTOR SHALL ADVISE THE PROPERTY MANAGEMENT TEAM PRIOR TO ANY SLAB MODIFICATIONS OR REMOVAL. TENANT GC SHALL VERIFY THAT WORK SHALL NOT CONFLICT WITH ANY EXISTING STRUCTURAL, UTILITY, OR OTHER UNDER-SLAB CONDITION. (NONDESTRUCTIVE VERIFICATION MAY BE REQUIRED.) ANY DAMAGE OR DOWNTIME CAUSED BY TENANT'S WORK SHALL BE REPAIRED AND REIMBURSED AT TENANT'S EXPENSE.

- TENANT'S STOREFRONT SIGN MUST REMAIN CIRCUITED VIA TENANT'S ELECTRICAL PANEL AND CONTROLLED VIA SIGN RELAY TIED INTO LANDLORD'S MASTER TIME CLOCK SYSTEM. IN SOME CIRCUMSTANCES, THE STOREFRONT SIGN CIRCUIT MAY BE CONNECTED TO A LANDLORD "HOUSE PANEL" WITH A TIME FUNCTION. IF THIS IS THE CASE, ALL MEANS NECESSARY SHALL BE TAKEN TO MAINTAIN THIS CIRCUIT AND CONNECTIVITY. NO EXCEPTIONS SHALL BE ALLOWED. VERIFY EXISTING CONDITIONS AT PRE-CONSTRUCTION MEETING. TENANT'S STOREFRONT SIGN MUST BE WORKING WHEN STORE OPENS FOR BUSINESS.

- ALL PENETRATIONS TO ROOF MUST BE APPROVED BY LANDLORD. ALL RELATED ROOF WORK MUST BE DONE BY PROPERTY'S DESIGNATED ROOFING CONTRACTOR, AT TENANT'S EXPENSE. COORDINATE ALL WORK WITH PROPERTY MANAGEMENT ON SITE.

SIMON

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CAL GREEN BUILDING CODE REQUIREMENTS

BUILDING COMMISSIONING

CONTRACTOR SHALL PROVIDE, AND INCLUDE IN BID:

A. TESTING AND ADJUSTING - TESTING AND ADJUSTING OF SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH INDUSTRY BEST PRACTICES AND APPLICABLE STANDARDS OF EACH SYSTEM AS DETERMINED BY THE BUILDING OFFICIAL. PROVIDE A FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.

TESTING AND ADJUSMENT PROCEDURE FOR LIGHTING CONTROLS:

WALL AND CEILING MOUNTED OCCUPANCY SENSOR:
TESTER SHALL MANUALLY TURN ON LIGHT FIXTURE VIA THE SWITCH PROVIDED. ONCE LIGHT FIXTURE IS TURNED ON, TESTER SHALL INITIATE TIMER, SET TO MAXIMUM 30 MINUTES, AFTER WHICH THE LIGHT FIXTURES SHALL BE AUTOMATICALLY TURNED OFF EITHER AT THE END OF THE MAXIMUM ALLOWED 30 MINUTES OR EARLIER. IF FIXTURE DO NOT TURN OFF AFTER THE MAXIMUM ALLOWED TIME, TESTER TO OPEN OCCUPANCY SENSOR COVER AND CHECK TIMER SETTING AND ADJUST AUTOMATIC OFF TIMER TO 30 MINUTES OR LESS AND REPEAT PROCEDURE.

TESTER TO FOLLOW MANUFACTURER'S INSTRUCTION ON HOW TO SETUP OCCUPANCY SENSOR TO ENSURE SENSOR IS WORKING AND SETUP PROPERLY.

WALL SWITCH FOR MANUAL ON/OFF AND DIMMING:
TESTER SHALL MANUALLY TURN ON LIGHT FIXTURE VIA THE SWITCH PROVIDED. ONCE LIGHT FIXTURE IS TURNED ON, TESTER SHALL DIM FIXTURE VIA THE DIMMING FUNCTION AND BUTTONS/SLIDER ON THE SWITCH AND OBSERVE FIXTURE TO ENSURE THAT LIGHT FIXTURES LIGHT LEVEL IS REDUCED UNIFORMLY AS THE FIXTURE IS DIMMED DOWN AND RAISED UP.

IF LIGHT FIXTURE IS NOT TURNED ON/OFF OR DIMMED, TESTER TO CHECK CONNECTION BETWEEN SWITCH, POWER PACK AND SENSOR IF APPLICABLE TO ENSURE ALL WIRING IS DONE CORRECTLY PER MANUFACTURER'S INSTALLATION INSTRUCTION AND REPEAT TESTING PROCEDURE.

AUTOMATIC OFF VIA TIMECLOCK AND CONTACTOR:
TESTER SHALL INSPECT TIEMCLOCK TO ENSURE THAT THE AUTOMATIC ON/OFF SCHEDULE IS SET PROPERLY PER TENANT CRITERIA. ONCE SCHEDULING IS SETUP. TESTER CAN ADJUST THE INTERNAL CLOCK OF THE TIMECLOCK TO ADVANCE TO WITHIN 1 MINUTE OF THE AUTOMATIC SHUT OFF TIME AND SEE IF ALL LIGHTS SET TO TURN OFF AUTOMATICALLY BY THE TIMECLOCK IS SHUT OFF AS IT SHOULD BE.

IF LIGHTS DO NOT TURN OFF AT THE SET SCHEDULE, CHECK TO ENSURE THAT TIMECLOCK IS SETUP PROPERLY AND ALL CONTACTOR ARE CONNECTED PROPERLY TO THE TIMECLOCK AND CHECK AGAIN.

TESTING AND ACCEPTANCE PER TITLE-24:
ALL TESTING AND ADJUSTMENT SHALL BE PROVIDED BY A PERSON/COMPANY THAT IS CERTIFIED TO PROVIDE TESTING, ADJUSTING AND PROVIDING ACCEPTANCE FORM NRCA PER TITLE-24 REQUIREMENT. THIS IS REQUIRED FOR ALL LIGHTING CONTROL DEVICES AND SYSTEM.

A FINAL REPORT FOR THE TESTING AND ADJUSTING OF ALL NEW SYSTEMS SHALL BE COMPLETED PRIOR TO FINAL APPROVAL BY THE FIELD INSPECTOR. THIS REPORT SHALL BE SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES. (5.410.4.4)

AN OPERATION & SYSTEMS MANUAL SHALL BE PROVIDED TO THE OWNER OR REPRESENTATIVE AND TO THE FIELD INSPECTOR AT THE TIME OF FINAL INSPECTION. (5.410.4.5)

B. OPERATION AND MAINTENANCE (O&M) MANUAL - PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES/WARRANTIES FOR EACH SYSTEM. O&M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR, TITLE 8, SECTION 5142, AND OTHER RELATED REGULATIONS.

C. INSPECTIONS AND REPORTS - INCLUDE A COPY OF ALL INSPECTIONS, VERIFICATIONS, AND REPORTS, REQUIRED BY THE ENFORCING AGENCY.

LANDLORD NOTES

ANY DISCONNECTION OF ELECTRICAL SYSTEMS AFFECTING LANDLORD PREMISES MUST BE APPROVED BY LANDLORD 72 HOURS PRIOR TO DISCONNECTION.

A COMPLETE ELECTRICAL LOAD SUMMARY SUBMISSION FORM IS REQUIRED TO BE INCLUDED IN TENANTS PLAN SUBMISSION.

ALL EXPOSED WIRING IN CEILINGS OR INTERIOR WALLS MUST BE IN RIGID STEEL CONDUIT.

ALL ELECTRICAL WORK WITHIN THE LEASE PREMISES SHALL BE BY THE TENANTS GC/EC.

IT IS TENANTS RESPONSIBILITY TO VERIFY PRIOR TO BID AND CONSTRUCTION THAT EXISTING AVAILABLE ELECTRICAL SERVICE MEETS THE TENANTS TOTAL CONNECTED LOAD.

TENANTS GC/EC IS RESPONSIBLE FOR ALL TEMPORARY POWER.

ALL WIRING MUST MEET LOCAL ELECTRICAL CODES AS WELL AS NATIONAL ELECTRICAL CODE REQUIREMENTS.

SERVICE WIRING SHALL BE IN METAL CONDUIT. FLEX MAY ONLY BE USED AT FIXTURE / EQUIPMENT CONNECTIONS AND ARE TO BE NO GREATER THAN 6'-0" IN LENGTH.

WIRE-MOLD IS NOT PERMITTED.

POWER POLES ARE NOT PERMITTED.

ALL PANELS ARE TO BE SURFACE MOUNTED ON CODE COMPLIANT PLYWOOD BACKERS. DO NOT RECESS WITHIN LANDLORDS DEMISING WALL.

NO WIRING AT ALL REGARDLESS OF VOLTAGE MAY BE LAID ACROSS THE CEILING/CEILING GRID.

TENANT GC / EC TO SURVEY ALL EXISTING ELECTRICAL EQUIPMENT AND VERIFY THAT IT IS IN GOOD WORKING ORDER, MEETS ALL CODES AND MATCHES THE CAPACITY AND CHARACTERISTICS OF THE EQUIPMENT INDICATED ON THESE DRAWINGS AND SPECIFICATIONS.

COORDINATE ALL NEW ROUTING OF CONDUIT, FEEDER CABLES AND CONNECTIONS WITH LANDLORDS MAIN ELECTRICAL GEAR AND WITH MALL OPERATIONS.

ANY UPGRADES TO EXISTING ELECTRICAL EQUIPMENT SHALL BE AT TENANTS EXPENSE AND PREFORMED BY TENANTS GC/EC WITH APPROVAL FROM MALL OPERATIONS.

DEMOLITION NOTES

1. WHERE REMOVAL OF AN EXISTING WORK (I.E., OUTLET, CONDUIT, WIRING ETC.) WILL RESULT IN LOSS OF CIRCUIT CONTINUITY, THE REMAINING ISOLATED PORTIONS OF THE CIRCUIT SHALL BE RECONNECTED TO THE NEAREST AVAILABLE AND APPROPRIATE EXISTING OUTLETS.
2. WHERE EXISTING WIRING OR EQUIPMENT IS TO BE ABANDONED, IT SHALL BE REMOVED AND THIS WORK SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING:
   A. REMOVE WIRES AND CABLES BACK TO SOURCE
   B. REMOVE AND RELOCATE LIGHTING FIXTURES
   C. REMOVE DEVICES AND EQUIPMENT
   D. REMOVE EXPOSED CONDUITS
   E. CUT OFF & CAP ABANDONED CONDUIT, STUBS SHALL NOT EXTEND ABOVE FLOOR
   F. REMOVE OTHER ITEMS NOT INCLUDED IN ITEMS (A) THRU (D)
3. WHERE EXISTING WIRING, DEVICES AND EQUIPMENT ARE REMOVED, SUCH ITEMS SHALL NOT BE RE-USED UNLESS SPECIFICALLY DIRECTED AND APPROVED BY OWNER.
4. REFER TO DEMOLITION NOTES ON ARCHITECTURAL DRAWINGS, REGARDING EXISTING LIGHT FIXTURES.
5. REROUTE ALL CONDUITS THAT ARE TO REMAIN IN SERVICE AND WHICH CONFLICT WITH EQUIPMENT INSTALLATION.
6. WHEREVER EXISTING ELECTRICAL DEVICES, CONDUITS, CABLES, OR OTHER ITEMS CONFLICT WITH REMODEL WORK, WHETHER SHOWN OR NOT, RELOCATE THESE ITEMS.
7. PATCH AND PAINT TO MATCH EXISTING, IN ALL AREAS AFFECTED BY REMOVAL OF ELECTRICAL EQUIPMENT AND DEVICES.
8. DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL DEVICES IN EXISTING CEILINGS AND WALLS WHICH ARE REQUIRED TO BE DEMOLISHED, WHETHER SHOWN OR NOT. MAINTAIN CIRCUITS TO ALL REMAINING DEVICES.
9. REMOVE ALL EQUIPMENT, DEVICES, WIRING AND EXPOSED CONDUIT NOT BEING USED.
10. VERIFY ALL DEMOLITION WORK REQUIRED BY THE LANDLORD WITH LANDLORD'S REPRESENTATIVE PRIOR TO BID.
11. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY POWER DURING CONSTRUCTION PHASE OF PROJECT.
12. VERIFY IF ALL EXISTING ELECTRICAL EQUIPMENT MEETS ALL CODES AND MATCHES THE TOWNSHIP AND CHARACTERISTICS OF THE EQUIPMENT INDICATED IN THE DRAWINGS AND SPECIFICATIONS. REPLACE EXISTING EQUIPMENT WITH NEW, AS REQUIRED.

FIRE ALARM NOTES

1. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED FIRE ALARM DEVICES AND CONNECTION FOR A COMPLETE AND OPERABLE SYSTEM PER ALL LOCAL JURISDICTION AND CODE REQUIREMENTS ON A DESIGN BUILD BASIS.
2. FURNISH AND INSTALL ALL CODE COMPLYING AND LANDLORD APPROVED FIRE AND SMOKE DETECTION EQUIPMENT AND MATERIALS WITHIN TENANT'S PREMISES AND EXTERIOR CONDUIT AND FIRE ALARM CABLE TO THE NEAREST MALL CENTRAL FIRE DETECTION INTERFACE JUNCTION BOX, WORK SHALL ALSO INCLUDE AN OCCUPANT NOTIFICATION VOICE ALARM SYSTEM WITH SPEAKERS, STROBE DEVICES AND POWER MODULES.
3. PROVIDE MONITORING/DETECTION FUNCTIONS FOR THE FOLLOWING:
   A. SPRINKLER SYSTEM FLOW SWITCH AND VALVE SHUTOFF.
   B. SMOKE/HEAT DETECTION SYSTEM DEVICES IN TENANT INSTALLED AIR-HANDLING EQUIPMENT.
   C. ANY REQUIRED AREA SMOKE DETECTORS AND PULL STATIONS.
4. INSTALLED FA DEVICES, EQUIPMENT AND MATERIALS SHALL MATCH EXISTING AS THE MALL BASE BUILDING SYSTEM.
5. ANNUNCIATOR JUNCTION BOX MODULE SHALL BE THE FINAL CONNECTION OF FA CABLE TO MALL CENTRAL FIRE DETECTION/NOTIFICATION. FIELD VERIFY EXACT LOCATION WITH THE ARCHITECT.

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GENERAL NOTES

1. CODE COMPLIANCE IS MANDATORY. NOTHING IN THESE DRAWINGS AND SPECIFICATIONS PERMITS WORK NOT CONFORMING TO THE REGULATORY REQUIREMENTS. WHERE WORK IS SHOWN TO EXCEED MINIMUM CODE REQUIREMENTS, COMPLY WITH DRAWINGS AND SPECIFICATIONS. EXISTING ITEMS THAT ARE NON-CODE COMPLIANT ARE TO BE UNDER GC RESPONSIBILITY TO ALIGN WITH THE CODE, AND MUST BE DETERMINED PRIOR TO BID FINALIZATION. ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST RULES, CODES AND REGULATIONS, SEE SPECIFICATIONS PARAGRAPH 1.02. NO CHANGE ORDERS WILL BE PERMITTED FOR UPDATES.
2. ALL DEVICES AND EQUIPMENT INSTALLED OUTDOORS OR EXPOSED TO THE WEATHER SHALL BE OF WEATHERPROOF CONSTRUCTION.
3. ALL SINGLE AND GANGED PLATES SHALL BE THERMOPLASTIC AND SHALL MATCH THE DEVICE IN COLOR, COORDINATE DEVICE COLOR WITH THE ARCHITECT PRIOR TO INSTALLATION. GANG DEVICES AT GROUP LOCATIONS UNDER A SINGLE COVER PLATE.
4. THE ELECTRICAL PLANS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL OF THE ARCHITECTURAL DETAIL OR SPECIFICS OF ELECTRICAL CONSTRUCTION. TAKE ALL DIMENSIONS FROM THE ARCHITECTURAL DRAWINGS. PRIOR TO ROUGH-IN, CONTRACTOR TO REVIEW ALL SUBMITTALS OF EQUIPMENT PROVIDED BY OTHER TRADE AND MAKE NECESSARY ADJUSTMENTS.
5. ALL CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE MADE WITH A MINIMUM OF 24" OF WEATHERPROOF FLEXIBLE CONDUIT TO PREVENT SOUND AND VIBRATION TRANSMISSION TO THE STRUCTURE.
6. COORDINATE ALL MOTOR OVERLOADS AND/OR FUSES FURNISHED BY THIS CONTRACT WITH THE ACTUAL EQUIPMENT INSTALLED. SIZE OVERLOADS BASED ON MOTOR NAMEPLATE FULL LOAD CURRENT AND SERVICE FACTOR. FUSES FOR MOTOR AND TRANSFORMER CIRCUITS SHALL BE DUAL ELEMENT. FUSES FOR OTHER "NON-INRUSH" LOADS SHALL BE FAST ACTING. ALL FUSES SHALL BE CURRENT LIMITING CLASS RK5 OR CLASS L UNLESS OTHERWISE NOTED.
   FUSES SHALL BE PROVIDED WITH REJECTION TYPE FUSE HOLDERS.
7. GROUNDING CONDUCTORS ARE GENERALLY NOT SHOWN. GROUND AND BOND TOGETHER ALL EQUIPMENT, RACEWAYS, MOTORS, PANELBOARDS AND SWITCHBOARDS, ETC. IN ACCORDANCE WITH CEC ARTICLE 250. BONDING OF ALL INTERIOR METAL PIPING SHALL BE IN ACCORDANCE WITH CEC ARTICLE 250 AS FOLLOWS:
   A. ALL INTERIOR METAL WATER PIPING SHALL BE BONDED TO ONE OR MORE GROUNDING ELECTRODES USED. THE BONDING JUMPER SHALL BE SIZED IN ACCORDANCE WITH CEC ARTICLE 250.
   B. INTERIOR METAL PIPING THAT MAY BECOME ENERGIZED (i.e. GAS PIPING, ETC.), SHALL BE BONDED TO ONE OR MORE GROUNDING ELECTRODES USED. THE BONDING JUMPER SHALL BE SIZED IN ACCORDANCE WITH CEC ARTICLE 250, USING THE RATING OF THE CIRCUIT THAT MAY ENERGIZE THE PIPING SYSTEM.
   C. INTERIOR METAL PIPING SYSTEM SEPARATED BY A PLUMBING EQUIPMENT (I.E. METER, WATER HEATER) SHALL BE PROVIDED WITH A BONDING JUMPER SIZED PER CEC ARTICLE 250. ALL GROUNDING ELECTRODE INSTALLED IN THE BUILDING (SINGLE OR MULTIPLE SERVICES) SHALL BE BONDED TOGETHER TO FORM A SINGLE GROUNDING ELECTRODE SYSTEM
8. INSTALL ALL WALL MOUNTED POWER, TELEPHONE AND DATA OUTLETS AT +15" A.F.F. TO BOTTOM OF THE BOX, UNLESS OTHERWISE NOTED. INSTALL ALL LIGHTING CONTROL SWITCHES, FIRE ALARM PULL STATIONS, AND WALL TELEPHONE JACKS AT +48" A.F.F. TO TOP OF THE BOX, UNLESS OTHERWISE NOTED.
9. CONDUCTOR PENETRATION OF FIRE RATED PORTIONS OF A STRUCTURE SHALL BE EFFECTIVELY SEALED AND SLEEVED WITH STEEL FLEX 3 FEET EACH SIDE OF THE PENETRATION, OR OTHER APPLIED METHODS.
10. FIRE ALARM CABLE SHALL BE INSTALLED IN CONDUIT WHERE REQUIRED BY CODE.
11. RECESSED LIGHT FIXTURES INSTALLED WHERE THERE ARE INSULATION IS REQUIRED TO BE I.C. RATED.
12. ALL LIGHT SWITCHES NOT WITHIN SIGHT OF THE LUMINAIRES SHALL BE EQUIPPED WITH A PILOT LIGHT, EVEN IF NOT SHOWN IN THE DRAWINGS.
13. CONTRACTOR TO PROVIDE ALL REQUIRED SEISMIC SUPPORT WIRES FOR THE LIGHTING FIXTURES. PENDANT FIXTURES SHALL BE PROVIDED WITH SEISMIC SUPPORT WIRES SO AS NOT TO HIT ANYTHING ON A 45 DEGREE SWING AND AS REQUIRED BY THE AHJ.
14. ALL EQUIPMENT SHALL BE UL LISTED AND SHALL BE INSTALLED AS PER THEIR LISTINGS. INSTALLATION INSTRUCTION FOR ALL UL LISTED EQUIPMENT SHALL BE MADE AVAILABLE TO THE BUILDING INSPECTOR AT THE TIME OF INSPECTION. ALL DEVICES AND EQUIPMENT INSTALLED OUTDOORS OR EXPOSED TO THE WEATHER SHALL BE OF WEATHERPROOF CONSTRUCTION. ALL RECEPTACLES SHALL COMPLY WITH THE LATEST EDITION OF THE CEC, EVEN IF NOT SPECIFICALLY IDENTIFIED IN THE DRAWINGS (GFCI, AFCI, TAMPER RESISTANT, HOSPITAL GRADE, ETC.)
15. CONTRACTOR TO SUBMIT LOAD SUMMARY (SERVICE CARE SHEET) TO THE ELECTRIC UTILITY COMPANY FOR COORDINATION TO THE EXISTING SERVICE LATERAL/ENTRANCE CONDUCTOR AND ASSOCIATED UTILITY TRANSFORMER.
16. STRUCTURAL STEEL FIREPROOFING THAT WERE DAMAGED DURING CONSTRUCTION SHALL BE PATCHED AND REPAIRED BY THIS CONTRACTOR.
17. CONTRACTOR SHALL VERIFY FIELD CONDITIONS BEFORE SUBMITTING BID.
18. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, CERTIFICATES, ETC. REQUIRED.
19. WHERE REQUIRED, CONTRACTOR SHALL OBTAIN AND PAY FOR BOTH ROUGH AND FINAL UNDER-WRITERS OR OTHER APPROVED INSPECTION AGENCY CERTIFICATES "ELECTRICAL INSPECTION". THESE CERTIFICATES SHALL BE PRESENTED WITH REQUEST FOR FINAL PAYMENT.
20. IT IS THE INTENT OF THESE PLANS TO PROVIDE A COMPLETE OPERATING ELECTRICAL SYSTEM. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL WIRING, EQUIPMENT, MATERIAL, ETC. REQUIRED, EXCEPT WHERE SPECIFICALLY NOTED AS BEING FURNISHED BY OTHERS. SHOULD THERE BE ANY QUESTIONS CONCERNING RESPONSIBILITY, THEY SHALL BE ADDRESSED TO ARCHITECT PRIOR TO BID. NO EXTRA CHARGES WILL BE ALLOWED.
21. ELECTRICAL SERVICE SHALL BE COORDINATED WITH THE EXISTING FIELD CONDITIONS.
22. CONSULT WITH CONTRACTORS FURNISHING HVAC EQUIPMENT TO VERIFY LOADS AND SECURE EXACT LOCATIONS (REFER TO HVAC DRAWINGS). WIRE AND CONNECT TO ALL HVAC EQUIPMENT. INCLUDING CONTROLS AND THERMOSTATS.
23. CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO ALL CONTROLS, OWNER-SUPPLIED EQUIPMENT, MECHANICAL AND PLUMBING EQUIPMENT AS REQUIRED.
24. CIRCUIT NUMBER ON THE DRAWINGS ARE FOR IDENTIFICATION ONLY AND DO NOT INDICATE THE POSITION ON THE PANEL BOARD. CONNECT THE CIRCUITS WITH THE LIGHTEST LOADS AND THE RECEPTACLE CIRCUITS NEAR THE TOP OF THE PANEL, AND THE MORE HEAVILY LOADED CIRCUITS NEAR THE BOTTOM. BALANCE ALL CIRCUITS EVENLY BETWEEN PHASE SO THAT FEEDER WIRES CARRY APPROXIMATELY EQUAL CURRENT. ALL PHASES MUST BE BALANCED WITHIN 10% OR LESS. CONTRACTOR SHALL REBALANCE IF NECESSARY.
25. BRANCH CIRCUIT CONDUCTORS SHALL NOT BE LESS THAN NO. 12AWG. THE INSULATION SHALL BE COLOR CODED. AND SHALL BE 600 VOLT. TYPE THHN/THWN COPPER.
26. CABLES IN HIGH TEMPERATURE AREAS SHALL HAVE INSULATION TYPE SUITABLE FOR THE TEMPERATURE. CABLES USED IN SPACES FOR ENVIRONMENTAL AIR SHALL CONFORM WITH APPLICABLE CEC REQUIREMENTS.
27. ALL WIRING USED IN RETURN OR DISCHARGE AIR PLENUMS SHALL BE PLENUM RATED OR INSTALLED PER METHODS APPROVED BY THE LATEST EDITION OF THE CEC FOR SUCH APPLICATION.
28. BRANCH CIRCUITS FOR POWER AND LIGHTING SHALL NOT BE LESS THAN #12 AWG. OR AS NOTED. WIRES ARE TO BE SIZED FOR THE APPROPRIATE VOLTAGE DROPS.
29. ALL EQUIPMENT AND LIGHT FIXTURES WIRING SHALL NOT BE LESS THAN #12 AWG TYPE SFF-2. AND FLEXIBLE CORDS SHALL NOT BE LESS THAN #12 AWG TYPE S.
30. CONTROL WIRING SHALL NOT BE LESS THAN #14 AWG UNLESS OTHERWISE NOTED.
31. HOMERUNS SHOWN ARE SCHEMATIC. CONTRACTOR MAY ORIGINATE HOMERUNS FROM DIFFERENT LOCATIONS. ALL WIRE INCLUDING HOMERUNS SHALL BE DELINEATED ON AS-BUILT DRAWINGS.
32. ALL CONDUITS PASSING THROUGH PARTITIONS ARE TO BE APPROPRIATELY SLEEVED AND SEALED.
33. ALL SLAB PENETRATIONS SHALL BE INSTALLED AND FIRE RATED PER NATIONAL STATE AND LOCAL CODES.
34. DO NOT MAKE ANY CHANGES OR SUBSTITUTIONS WITHOUT SPECIFIC WRITTEN APPROVAL FROM THE ARCHITECT OR ENGINEER.
35. GUARANTEE ALL WORK, MATERIAL AND EQUIPMENT FOR A PERIOD OF ONE YEAR FROM THE DATE OF APPROVAL AND FINAL ACCEPTANCE.
36. THIS DESIGN IS BASED ON INITIAL DESIGN DATA. GENERAL CONTRACTOR TO SUPPLY AND INSTALL FEEDERS, FUSES AND CIRCUIT BREAKERS TO MATCH THE ACTUAL NAMEPLATE RATING OF ALL EQUIPMENT. THIS SHALL BE INCLUDED IN THE INITIAL BID PROPOSAL AND NO EXTRAS SHALL BE ENTERTAINED.
37. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS AND LABOR TO COMPLETE ALL ELECTRICAL WORK IN A NEAT AND WORKMANLIKE MANNER AND IN ACCORDANCE WITH GOOD COMMERCIAL PRACTICE INCLUDING THE INSTALLATION OF ALL THE EQUIPMENT MATERIALS AND SYSTEMS AND THE FINAL CONNECTIONS TO THE OWNER'S EQUIPMENT AND FIXTURES AS REQUIRED BY THE OWNER. THE CONTRACTOR SHALL ALSO FURNISH TEMPORARY WIRING AND LIGHTING TO PROVIDE A MINIMUM OF 25 FC IN WORK AREAS FOR USE OF ALL THE TRADES DURING CONSTRUCTION AND THE INSTALLATION OF THE OWNERS FIXTURES. THE CONTRACTOR IS RESPONSIBLE TO REMOVE ALL TEMPORARY WIRING UPON COMPLETION OF CONSTRUCTION OF ALL TRADES.
38. CONTRACTOR SHALL LABEL ALL JUNCTION BOX, OUTLETS, LIGHT SWITCH, ETC. WITH CIRCUIT NUMBER ON INTERIOR OF COVER PLATE.
39. CONTRACTOR SHALL PROVIDE SEISMIC RESTRAINTS AND SUPPORTS FOR ALL FLOOR AND CEILING MOUNTED ELECTRICAL EQUIPMENT TO RESIST EARTHQUAKE EFFECTS DETERMINED IN ACCORDANCE WITH THE BUILDING CODE.
40. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL SUPPLEMENTARY SUPPORT, INCLUDING SUPPORT STEEL AS REQUIRED TO HANG ALL EQUIPMENT AND LIGHTING FROM THE EXISTING STRUCTURE IN ACCORDANCE WITH THE ARCHITECTURAL/STRUCTURAL SUPPORT AND LOADING CRITERIA.
41. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE FULLY DIMENSIONED COORDINATION DRAWINGS FOR ALL OF HIS RESPECTIVE WORK. THESE DRAWINGS MUST BE FULLY COORDINATED WITH ALL EXISTING CONDITIONS. ALL HVAC, PLUMBING, FIRE PROTECTION, ELECTRICAL, LIGHTING, STRUCTURAL AND ARCHITECTURAL SYSTEMS PRIOR TO PREPARING COMPOSITE MULTI DISCIPLINE COORDINATION DRAWINGS.
42. ALL DISCONNECTING MEANS AND EQUIPMENT INDICATED ON THE DRAWING SHALL BE IDENTIFIED BY NAMEPLATE IN COMPLIANCE WITH THE CEC 110-22.
43. ALL WIRING FOR THE EMERGENCY LIGHTING AND EMERGENCY SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CEC ARTICLE 700.
44. THE WIRING METHODS AND MATERIALS INDICTED IN THE SPECIFICATIONS AND ON THE DRAWINGS SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CEC ARTICLE 300.
45. THE ELECTRICAL SERVICE AND DISTRIBUTION SYSTEM AS INDICATED ON THE RISER DIAGRAM AND MATERIALS INDICATED IN THE SPECIFICATIONS SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE CEC ARTICLE 230.
46. ALL OVER CURRENT PROTECTION SHALL BE IN COMPLIANCE WITH THE CEC SECTION 240.
47. ALL GROUNDING REQUIREMENT S OF THE COMPLETE ELECTRICAL DISTRIBUTION SYSTEM AND AS INDICATED IN THE SPECIFICATIONS SHALL BE IN ACCORDANCE WITH CEC ARTICLE 250.
48. PRIOR TO ANY REQUIRED CUTTING AND PATCHING OF CONCRETE FLOOR AND/OR CUTTING OF ROOF C

ELECTRICAL SPECIFICATIONS

PART 1: GENERAL

1.01 SCOPE OF WORK
A. FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT AND PROVIDE ALL LABOR, TOOLS, TRANSPORTATION, SUPERINTENDENCE AND SERVICES REQUIRED AND NECESSARY TO COMPLETE THE WORK SHOWN ON THE CONTRACT DOCUMENTS, DRAWINGS, AND/OR SPECIFIED HEREIN. ALSO INCLUDE ALL OTHER WORK AND MISCELLANEOUS ITEMS, NOT SPECIFICALLY MENTIONED, BUT REASONABLY INFERRED FOR A COMPLETE INSTALLATION INCLUDING ALL ACCESSORIES AND APPURTENANCES REQUIRED FOR TESTING THE SYSTEM. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS THAT ALL SYSTEMS BE COMPLETE, AND READY FOR OPERATION.

1.02 REGULATORY REQUIREMENT
A. CODE COMPLIANCE IS MANDATORY. NOTHING IN THESE DRAWINGS AND SPECIFICATIONS PERMITS WORK NOT CONFORMING TO THESE CODES. WHERE WORK IS SHOWN TO EXCEED MINIMUM CODE REQUIREMENTS, COMPLY WITH DRAWINGS AND SPECIFICATIONS. ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST RULES, CODES AND REGULATIONS, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
1. OCCUPATIONAL SAFETY AND HEALTH ACT STANDARDS (OSHA).
2. 2022 CALIFORNIA ELECTRICAL CODE
3. 2022 CALIFORNIA BUILDING CODE
4. 2022 CALIFORNIA MECHANICAL CODE
5. 2022 CALIFORNIA PLUMBING CODE
6. 2022 CALIFORNIA FIRE CODE
7. 2022 CALIFORNIA ENERGY CODE, PART 6
8. LOCAL UTILITY COMPANIES
9. NFPA #101 - LIFE SAFETY CODE.
10. STATE FIRE MARSHAL
11. LOCAL UTILITY COMPANIES
12. LANDLORD REQUIREMENTS
ANY OTHER LOCAL CODES, ORDINANCES AND JURISDICTIONS.

1.03 LICENSE, FEES, AND PERMITS
ELECTRICAL CONTRACTOR SHALL PAY FOR ALL LICENSES, PERMITS AND INSPECTION FEES REQUIRED BY THE AUTHORITY HAVING JURISDICTION AND SHALL ARRANGE FOR ALL REQUIRED INSPECTION OF ELECTRICAL WORK & ELECTRICAL EQUIPMENT (IN DE-ENERGIZED STATE IF REQUIRED BY THE AHJ).

1.04 SAFETY AND INDEMNITY
A. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. NO ACT, SERVICE, DRAWING REVIEW OR CONSTRUCTION REVIEW BY THE OWNER, THE ENGINEERS OR THEIR CONSULTANTS, IS INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON, OR NEAR THE CONSTRUCTION SITE.

1.05 DRAWINGS AND SPECIFICATIONS
A. ALL DRAWINGS AND ALL DIVISIONS OF THESE SPECIFICATIONS SHALL BE CONSIDERED AS A WHOLE AND WORK OF THIS DIVISION SHOWN ANYWHERE IN THE DRAWINGS SHALL BE FURNISHED UNDER THIS DIVISION. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF EQUIPMENT AND WIRING. MOST DIRECT ROUTING OF CONDUITS AND WIRING IS NOT ASSURED. EXACT REQUIREMENTS SHALL BE GOVERNED BY CONDITIONS OF THE JOB. CONSULT ALL OTHER DRAWINGS IN PREPARATION OF THE BID. EXTRA LENGTHS OF WIRE, OR ADDITION OF PULL OR JUNCTION BOXES, ETC., NECESSITATE BY SUCH CONDITIONS SHALL BE INCLUDED IN THE BID.

1.06 CONDITIONS AT SITE
A. VISIT SITE OF THE WORK, COMPARE IT WITH THE DRAWINGS AND SPECIFICATIONS AS TO THE CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED, ASCERTAIN AND CHECK ALL CONDITIONS AND ELEVATIONS AND TAKE ALL MEASUREMENTS WHICH MAY AFFECT THE WORK. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE FOR ANY EXTRA EXPENSE OR CLAIMS DUE TO FAILURE OR NEGLECT UNDER THIS REQUIREMENT TO MAKE SUCH EXAMINATION, INCLUDING EXAMINATION OF RESTRICTED WORKING CONDITIONS AND SUCH OTHER DIFFICULTIES AS MAY BE OBSERVED DURING SITE VISIT. CONTRACTOR IS RESPONSIBLE FOR BECOMING COMPLETELY FAMILIAR WITH THE ARCHITECTURAL AND STRUCTURAL CONDITIONS AND LIMITATIONS WHICH WILL EXIST IN THE BUILDING AND TO PROVIDE ALL LABOR, TOOLS AND MATERIALS REQUIRED TO PRODUCE A COMPLETELY CONCEALED INSTALLATION AS INDICATED ON THE PLANS, SPECIFICATIONS, AND REQUIRED BY THE CODE.
THE ELECTRICAL CONTRACTOR SHALL EXAMINE THE SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. NO EXTRA PAYMENT WILL BE ALLOWED FOR WORK REQUIRED BECAUSE OF THIS CONDITIONS, WHETHER SPECIFICALLY MENTIONED OR NOT.

1.07 WORKMANSHIP AND CONTRACTOR'S QUALIFICATIONS
A. ONLY QUALITY WORKMANSHIP WILL BE ACCEPTED. HAPHAZARD OR POOR INSTALLATION WILL BE CAUSE FOR REJECTION OF WORK.

1.08 SUBMITTALS
A. SUBMITTALS, UNLESS OTHERWISE NOTED, SHALL BE A SINGLE PACKAGE OF SIX (6) COPIES SUBMITTED TO OWNER FOR REVIEW. WORK SHALL NOT COMMENCE UNLESS SUBMITTALS HAVE BEEN REVIEWED FOR GENERAL CONFORMANCE BY THE ENGINEER OF RECORD.
B. SUBMIT CUTSHEETS, MATERIAL DATA, AND SHOP DRAWINGS, AS NOTED BELOW. FOR REVIEW WITHIN FIFTEEN (15) DAYS AFTER AWARD OF CONTRACT. SUBMITTALS REQUIRED AS FOLLOWS:
1. BASIC ELECTRICAL MATERIALS INCLUDING BUT IS NOT LIMITED TO:
A.)WIRING DEVICES - RECEPTACLES, SWITCHES, FACEPLATES
B.)WIRES, CONNECTORS, TAPES, SPLICES, TERMINATIONS, AND ACCESSORIES
C.)RACEWAYS AND ACCESSORIES
D.)DEVICE IDENTIFICATION
2. ELECTRICAL EQUIPMENT
A.)POWER DISTRIBUTION EQUIPMENT - PANELBOARDS, SWITCHBOARDS, SWITCHGEAR, DISCONNECT SWITCHES, CIRCUIT BREAKERS, TRANSFORMERS, GENERATORS, INVERTERS, UPS, POWER DISTRIBUTION UNITS, ETC.
B.)SERVICE ENTRANCE EQUIPMENT - BUS DUCT, TERMINATION CANS, METERED SWITCHBOARDS, ETC.
C.)SUPPORTS (SEISMIC & STRUCTURAL), HOUSEKEEPING CONCRETE PADS.
3. LIGHTING
A.)LIGHT FIXTURES AND SUPPORT HARDWARE/DEVICES. CONTRACTOR IS RESPONSIBLE FOR MOUNTING COMPATIBILITY OF LIGHTING FIXTURE WITH CEILING (I.E. TYPE OF T-BAR, HARD CEILING, SPECIALTY CEILING)
B.)LAMPS AND BALLASTS - INCLUDE BALLASTS CERTIFICATION. BALLAST SHALL HAVE LOCAL DISCONNECTS.
C.)POLES, CONCRETE POLE BASES.
D.)CONTROLS - OCCUPANCY SENSORS, PHOTOCELL, LIGHTING CONTACTORS, LIGHTING CONTROL PANELS, DIMMERS, ETC.
E.)FIXTURE AND ASSEMBLY WATTAGES
F.)FOR PROJECTS THAT ARE SUBJECT TO CALIFORNIA ENERGY CODES, PROVIDE SUBMITTALS CONFIRMING THAT PRODUCTS SUBMITTED MEET THE REQUIRED MANDATORY MEASURES AS WELL AS MEETS MAXIMUM STATED ENERGY CONSUMPTION SHOWN IN TITLE 24 CALCULATIONS.
C. SUBMIT COMPLETE TEST REPORTS AND ANALYSIS FOR REVIEW WITHIN FIFTEEN (15) DAYS AFTER TESTING.
D. SUBMIT TITLE 24 COMPLIANCE FORMS AT VARIOUS STAGES OF THE PROJECTS, OR AS REQUIRED BY CODE OR AS REQUESTED.
E. SUBMIT VERIFIED PUNCHLIST TWO (2) WEEKS AFTER ISSUANCE DATE. INDICATE PUNCHLIST ITEMS THAT HAVE BEEN COMPLETED BY CONTRACTOR. INCLUDE DATE FOR REPUNCH.

1.09 SUBSTITUTIONS
A. ONE OR MORE MAKES OF MATERIALS OR METHODS MAY HAVE BEEN SPECIFIED TO ESTABLISH THE STANDARD OF QUALITY, WORKMANSHIP, FINISH, AND DESIGN REQUIRED, BUT OTHER MATERIALS OR METHODS EQUAL OR BETTER IN QUALITY, WORKMANSHIP, FINISH, DESIGN, AND GUARANTEED PERFORMANCE, MAY BE SUBMITTED FOR REVIEW AND APPROVAL AS SUBSTITUTION. ALL SUBSTITUTIONS ARE SUBJECT TO REVIEW AND APPROVAL BY ARCHITECT, ENGINEER, AND OWNER.
B. SUBSTITUTIONS SHALL BE REQUESTED IN A WRITTEN FORM AND SHALL BE ACCOMPANIED WITH A SIGNED STATEMENT THAT PROPOSED SUBSTITUTION IS EQUAL, OR BETTER THAN SPECIFIED. ADDITIONAL DOCUMENTATION TO SUBSTANTIATED PROPOSED SUBSTITUTION MAY BE REQUIRED BY OWNER, ARCHITECT, AND ENGINEER. CONTRACTOR SHALL SUBMIT AS DIRECTED.
C. CONTRACTOR SHALL ACCOMPANY REQUEST FOR SUBSTITUTION LETTER WITH A COMPLETED CSI SUBSTITUTION FORM INCLUDE THE COMPARISON FOR FOLLOWING:
1. ELECTRICAL RATING, FINISHES, PERFORMANCE DATA,
2. SPARE PARTS
3. COSTS AND SCHEDULE
D. A WRITTEN SIGNED STATEMENT FROM THE GENERAL CONTRACTOR SHALL ACCOMPANY SUBSTITUTION REQUEST FORM ASSURING THAT:
1. HE HAS VERIFIED DIMENSIONS WITH PROJECT CONDITIONS AND HAS COORDINATED WITH OTHER TRADES. SUBSTITUTION DOES NOT AFFECT DIMENSIONS SHOWN ON DRAWINGS.
2. HE SHALL PAY AND BURDEN THE COSTS FOR CHANGES TO THE PROJECT INCLUDING RE-DESIGN, RE-ENGINEERING AND REVIEW OF SUBSTITUTION, EVEN IF ONLY ONE (1) ENGINEERING REVIEW TIME IS ALLOWED FOR EACH PRODUCT SUBSTITUTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL REVIEW TIME AND SHALL PAY ARCHITECT AND ENGINEER'S TIME AT THEIR PROFESSIONAL RATE SCHEDULE.
3. HE HAS CONFIRMED THAT THE PROPOSED SUBSTITUTION WILL HAVE NO ADVERSE AFFECT ON OTHER TRADES, THE CONSTRUCTION COST & SCHEDULE, OR SPECIFIED WARRANTY REQUIREMENTS.
4. HE HAS CONFIRMED THAT MAINTENANCE AND SERVICE PARTS WILL BE LOCALLY AVAILABLE FOR THE PROPOSED SUBSTITUTION.
E. COST SAVINGS RESULTING FROM SUBSTITUTION SHALL BE RETURNED TO THE CONTRACT OR THE OWNER IF THE SUBSTITUTION IS PERMITTED.
F. NO WORK INVOLVING MATERIALS SUBMITTED FOR SUBSTITUTION SHALL PROCEED UNTIL WRITTEN ACCEPTANCE IS RECEIVED FROM THE OWNER. THE OWNER IS THE FINAL JUDGE OF ACCEPTABILITY OF PREFERRED SUBSTITUTIONS.

1.10 COORDINATION
A. COORDINATE WORK WITH OTHER TRADES TO AVOID CONFLICT AND TO PROVIDE CORRECT ROUGH-IN AND CONNECTION FOR EQUIPMENT FURNISHED UNDER OTHER TRADES THAT REQUIRE ELECTRICAL CONNECTIONS. ELECTRICAL CONTRACTOR TO REVIEW THE SUBMITTALS OF EQUIPMENT PROVIDED BY OTHER TRADES AND CONFIRM ITS WIRING REQUIREMENT WITH WHAT IS SHOWN IN THE ELECTRICAL DRAWINGS. INFORM CONTRACTORS OF OTHER TRADES OF THE REQUIRED ACCESS TO AND CLEARANCES AROUND ELECTRICAL EQUIPMENT TO MAINTAIN SERVICEABILITY AND CODE COMPLIANCE.
B. VERIFY EQUIPMENT DIMENSIONS AND REQUIREMENTS WITH PROVISIONS SPECIFIED UNDER THIS SECTION. CHECK ACTUAL JOB CONDITIONS BEFORE FABRICATING WORK. REPORT NECESSARY CHANGES IN TIME TO PREVENT NEEDLESS WORK. CHANGES OR ADDITIONS, SUBJECT TO ADDITIONAL COMPENSATION, WHICH ARE MADE WITHOUT WRITTEN AUTHORIZATION AND AN AGREED PRICE, SHALL BE AT THE CONTRACTOR'S RISK AND EXPENSE.

1.11 CUTTING AND PATCHING
A. ALL CUTTING AND PATCHING REQUIRED FOR WORK OF THIS DIVISION IS INCLUDED HEREIN. COORDINATION WITH GENERAL CONTRACTOR AND OTHER TRADES IS IMPERATIVE. CONTRACTOR SHALL BEAR THE RESPONSIBILITY FOR AND THE ADDED EXPENSE OF ADJUSTING FOR IMPROPER HOLES, SUPPORTS, ETC.
B. CONTRACTOR IS RESPONSIBLE FOR CONCRETE/ASPHALT SAW-CUTTING, REMOVAL AND DISPOSAL. PROVIDE PATCHING TO MATCH REQUIRED FINISH GRADE.
C. PROVIDE ROOF PENETRATION AND ROOF PATCHING. ALL PENETRATIONS IN EXTERIOR WALL AND BASEMENT FLOOR/WALL SHALL BE PROVIDED WITH AN APPROVED WATERPROOFING SYSTEM/ASSEMBLY.
D. FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS AND RATED FLOOR/CEILING ASSEMBLIES

1.12 ACCEPTANCE AND DEMONSTRATION
A. UPON COMPLETION OF THE WORK, AT A TIME TO BE DESIGNATED BY THE OWNER, THE CONTRACTOR SHALL DEMONSTRATE FOR THE OWNER THE OPERATION OF THE ELECTRICAL INSTALLATION, INCLUDING ANY AND ALL SPECIAL ITEMS INSTALLED BY HIM OR INSTALLED UNDER HIS SUPERVISION.
B. PROPERLY SET LIGHTING CONTROL PANELS, AUTOMATIC TIME SWITCHES, ETC. TO PERFORM SWITCHING OPERATIONS IN ACCORDANCE WITH SCHEDULES PROVIDED BY THE OWNER'S REPRESENTATIVE, AND DEMONSTRATE (USING THE MANUFACTURER'S OPERATING INSTRUCTIONS) HOW TO OVERRIDE CONTROLS AND/OR TEST TIME SWITCHES PROGRAMMING.

1.13 RECORD DRAWINGS AND EQUIPMENT DATA
A. MAINTAIN ONE SET OF CLEAN WORKING DRAWINGS AT THE JOB SITE AND ENTER DAILY SUCH "AS-BUILT" INFORMATION AS FEEDER AND SERVICE ROUTES, PULL BOX LOCATIONS AND CHANGES IN LAYOUT OR ARRANGEMENT WHICH OCCUR DURING CONSTRUCTION. DELIVER COMPLETED "RED LINE AS-BUILTS" DRAWINGS TO THE OWNER.
B. SUBMIT TO THE OWNER'S REPRESENTATIVE A SET OF "AS BUILT" DRAWINGS IN VELLUM AND CAD FILE. AS BUILT COMMENTS SHALL BE WRITTEN IN A LEGIBLE MANNER IN THE SAME STYLE AS THE CONTRACT DOCUMENTS. ALSO SUBMIT THREE COPIES OF DATA SHEETS OR OTHER CURRENT MANUFACTURERS' PUBLICATIONS FOR EACH ITEM OF ELECTRICAL EQUIPMENT FURNISHED FOR THE PROJECT INCLUDING AT LEAST THESE DATA:
1. TECHNICAL DESCRIPTION AND REPLACEABLE PARTS LIST.
2. PHYSICAL DESCRIPTION AND INSTALLATION INSTRUCTIONS.
3. USER'S MANUAL AND OPERATING INSTRUCTIONS.
4. MANUFACTURER'S WARRANTY.

1.14 CLEAN-UP
A. RID THE PREMISES OF SCRAP MATERIALS, TRASH AND DEBRIS BOTH DURING CONSTRUCTION AND AT COMPLETION OF THE PROJECT. LEAVE THE BUILDING AND SURROUNDING AREA IN A CLEAN AND ORDERLY CONDITION.

1.15 GUARANTEE
A. GUARANTEE THE INSTALLATION FREE FROM DEFECTS OF WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER DATE OF CERTIFICATION OF FINAL PAYMENT AND PROMPTLY REMEDY ANY DEFECTS DEVELOPING DURING THIS PERIOD, WITHOUT CHARGE.

1.16 TEMPORARY SERVICES
A. PROVIDE ADEQUATE AND SAFE TEMPORARY ELECTRICAL POWER AND LIGHTING THROUGHOUT THE CONSTRUCTION AND FINISHING OF THE PREMISES. IN ADDITION TO SPECIAL OR UNUSUAL REQUIREMENTS, PROVIDE AT LEAST THESE ITEMS:
1. THREE (3) 20-AMP CIRCUITS FOR CONSTRUCTION POWER TOOLS. PROVIDE GFI TEMPORARY CIRCUITS WITH COVERPLATES TO MEET OSHA REQUIREMENTS.
2. THREE OR MORE LIGHT STRINGS SUSPENDED APPROXIMATELY ONE FOOT BELOW THE HEIGHT OF FINISH CEILING WITH LAMPS SPACED NOT MORE THAN TWELVE FEET ON CENTERS. STRINGS SHALL BE RUN THE LENGTH OF THE STORE SPACE PARALLEL TO THE DEMISING WALLS, WITH ONE STRING WITHIN EIGHT FEET OF EACH WALL AND ONE (OR MORE) INTERMEDIATE STRING(S) ARRANGED TO LIMIT THE SPACING BETWEEN ROWS TO SIXTEEN FEET OR LESS.
3. FLOOD LIGHTING AND TASK LIGHTING FOR PAINTING AND OTHER FINISH WORK.
4. TEMPORARY POWER REQUIRED FOR TESTING OF BUILDING EQUIPMENT (ELEVATOR, ETC.)
B. WHERE SCOPE INCLUDES THE REMOVAL OF EXTERIOR LIGHTING, CONTRACTOR SHALL PROVIDE TEMPORARY EXTERIOR LIGHTING UNTIL THE NEW EXTERIOR LIGHTING HAS BEEN ACCEPTED BY THE OWNER. TEMPORARY EXTERIOR LIGHTING SHALL COMPLY WITH IESNA STANDARDS FOR SECURITY LIGHTING.
C. WHERE SCOPE INCLUDES THE DISABLING OF A FIRE ALARM SYSTEM, CONTRACTOR SHALL PROVIDE A FIRE WATCH. FIRE WATCH SHALL COMPLY WITH NFPA AND LOCAL FIRE MARSHAL REQUIREMENTS.
D. WHEN PERMANENT ELECTRICAL SERVICE IS OPERABLE, DISCONNECT AND REMOVE FROM THE PREMISES THE MATERIALS AND EQUIPMENT USED FOR TEMPORARY POWER AND LIGHTING. RESTORE MODIFICATIONS AND REPAIR DAMAGE CAUSED BY THE INSTALLATION, USE OR REMOVAL OF TEMPORARY SERVICE PROVISIONS.

PART 2: PRODUCTS

2.01 MATERIAL APPROVAL
A. ALL MATERIALS MUST BE NEW AND BEAR UNDERWRITER'S LABORATORIES LABEL. MATERIALS THAT ARE NOT COVERED BY U.L. TESTING STANDARDS SHALL BE TESTED AND APPROVED BY AN INDEPENDENT TESTING LABORATORY OR A GOVERNMENTAL AGENCY. MATERIAL NOT IN ACCORDANCE WITH THESE SPECIFICATIONS MAY BE REJECTED EITHER BEFORE OR AFTER INSTALLATION.
ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED AS PER THEIR LISTINGS.

2.02 BASIC ELECTRICAL MATERIALS
A. CONDUITS AND RACEWAYS
1. RIGID STEEL: HOT-DIPPED GALVANIZED.
2. INTERMEDIATE METAL CONDUIT (IMC): HOT-DIPPED GALVANIZED.
3. ELECTRICAL METALLIC TUBING (EMT): ELECTRO-GALVANIZED.
4. RIGID NON METALLIC CONDUIT (PVC SCHEDULE 40)
5. WIREWAY: CODE GAUGE STEEL, WITH KNOCKOUTS AND HINGED COVER, CORROSION RESISTANT GRAY BAKED ENAMEL FINISH.
6. PROVIDE FITTINGS AND ACCESSORIES APPROVED FOR THE PURPOSE EQUAL IN ALL RESPECTS TO THE CONDUIT OR RACEWAY. EMT CONNECTORS AND COUPLINGS SHALL BE STEEL SETSCREW TYPE INDOORS AND STEEL COMPRESSION TYPE IN WET LOCATIONS AND OUTDOORS.

B. WIRES AND CABLES
1. FOR POWER AND LIGHTING SYSTEM 600V OR LESS:
A.) FOR WIRE SIZES #8 AND SMALLER: USE INSULATED PRESSURE TYPE (WITH LIVE SPRING) RATED 105 DEGREES C, 600V, FOR BUILDING WIRING OR FIXTURES. FOR WIRE SIZE #6 AND LARGER: USE T&B OR EQUIVALENT COMPRESSION TYPE WITH 3M #33+ OR PLYMOUTH "SLIPKNOT GREY" TAPE INSULATION.
B.)CONDUCTOR: MINIMUM SIZE #12 AWG.
i. #12 AND #10 AWG SOLID OR STRANDED COPPER
ii. #8 AWG AND LARGER SHALL BE STRANDED COPPER.
C.)INSULATION TYPE:
i. #12 TO #1 AWG: THWN FOR WET OR UNDERGROUND AND THHN FOR DRY LOCATIONS.
ii. #10 THROUGH #4/0 AWG: XHHW (55 MILS).
iii. #250 MCM AND LARGER: XHHW (65 MILS).
iv. GROUNDING WIRE: TW.
v.) METAL CLAD (MC) CABLES: CONDUCTORS SHALL BE MADE FROM CLASS B COPPER. SIZES 14 AWG, 12 AWG, AND 10 AWG MAY BE EITHER SOLID OR STRANDED. 8 AWG AND LARGER SHALL BE STRANDED. THE CONDUCTORS SHALL BE CONSTRUCTED WITH THINN/THWN INSULATION RATED FOR 90 DEGREES, C., DRY OR WET AT 600 VOLTS MAX. A COPPER GROUNDING CONDUCTOR SHALL BE CABLED WITH THE PHASE CONDUCTORS. THE GROUND CONDUCTOR SHALL HAVE GREEN INSULATION. ARMOR SHALL BE INTERLOCKED ALUMINUM, HELICALLY FORMED AROUND THE CONDUCTOR ASSEMBLY AND 45% LIGHTER THAN STEEL MC CABLE. WHERE MC CABLE IS USED IN PATIENT CARE SPACES, THE METALLIC ARMOR SHALL ITSELF QUALIFY AND BE LISTED AS AN EQUIPMENT GROUNDING CONDUCTOR, IN ACCORDANCE WITH CEC 250.118.
2. FOR SIGNAL AND COMMUNICATIONS CIRCUIT:
A. SPECIAL CABLES SHALL BE AS SPECIFIED ON DRAWINGS.
B.)CONDUCTORS FOR GENERAL USE SHALL BE STRANDED COPPER CONDUCTOR, #16 AWG MINIMUM, WITH THWN INSULATION FOR UNDERGROUND OR WET LOCATIONS AND THHN INSULATION FOR DRY LOCATIONS.
3. ACCEPTABLE PRODUCTS: GENERAL ELECTRIC, ANACONDA, OKONITE, PARANITE OR TRIANGLE PRODUCTS CONFORMING OR EXCEEDING APPLICABLE IPCEA STANDARDS.

C. OUTLET BOXES, JUNCTION AND PULLBOXES
1. OUTLET BOXES: 4" SQUARE X 1-1/2" DEEP (OR LARGER) GALVANIZED SHEET STEEL KO-TYPE WITH PLASTER RING AND COVERPLATE FOR GENERAL USE AND CAST METAL TYPE FS OR FD WITH MATCHING SCREW COVERS FOR EXTERIOR AND EXPOSED INTERIOR LOCATIONS (GASKETED IN DAMP OR WET LOCATIONS).
2. JUNCTION BOXES (FLOOR BOX NOT INCLUDED) SHALL BE SAME AS OUTLET BOXES UP TO 42 CU. IN. AND CODE-GAUGE STEEL IN LARGER SIZES WITH SCREW-ON FLUSH-TYPE SCREWMOUNTED TRIMCOVERS, BOTH BOXES AND COVERS INHIBITOR-PRIMED AND PAINTED INSIDE OUT.
3. PULL BOXES SHALL BE SAME AS JUNCTION BOXES UNLESS INDICATED OTHERWISE ON THE DRAWINGS, WITH COVERS.
4. TELEPHONE OUTLET BOXES SHALL BE THE TYPE AND SIZE REQUIRED BY THE SERVING TELEPHONE COMPANY BUT NOT SMALLER THAN 4-11/16" SQUARE X 2-1/8" DEEP WITH SINGLE-GANG RING AND SIERRA #S-754N SPLIT PLATE BUSHING.
5. UNDERGROUND AND SITE JUNCTION BOXES, HANDHOLES, AND MANHOLES
A.)SHALL BE MADE UP OF PRECAST CONCRETE WITH TRAFFIC RATED STEEL COVERS. EXTENSIONS SHALL BE PROVIDED AS NECESSARY TO MEET REQUIRED COVERAGE FOR DUCT BANKS.
B.)PROVIDE 10" X 17" (MIN) FOR PULLBOXES, 36" X 60" (MIN) FOR HANDHOLES, AND 6'X8'X6' (MIN) MANHOLES.

D. WIRING DEVICES AND PLATES
1. WIRING DEVICES AND PLATES SHALL BE LISTED FOR SPECIFIC USE.
2. ALL POWER RECEPTACLES AND SWITCHES FOR GENERAL PURPOSE CIRCUITS SHALL BE NEMA SPECIFICATION GRADE, RATED AS FOLLOWS:
A.)GENERAL PURPOSE RECEPTACLES: NEMA 5-15R OR 5-20R
B.)LAB BENCH RECEPTACLES: NEMA 5-20R
C.)DEDICATED RECEPTACLES: NEMA 5-20R
3. SWITCHES: TWENTY (20) AMPERE.
A.)IN MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS, ILLUMINATED LIGHT SWITCHES SHALL BE PROVIDED.
4. ALL GENERAL PURPOSE 20A, 120/250 V RECEPTACLES AND 120/277 V SWITCHES SHALL CONFORM TO NEMA WD-1 SPECIFICATIONS.
5. RECEPTACLES SHALL BE GFCI PROTECTED AND/OR AFCI PROTECTED AND/OR TAMPER RESISTANT AND/OR WEATHER RESISTANT AS REQUIRED PER CEC. EVEN IF NOT SPECIFICALLY CALLED FOR IN THIS DRAWING. PROVIDE WP COVER AS REQUIRED PER CEC.

6. UNLESS OTHERWISE INDICATED, WIRING DEVICES AND COVER PLATES SHALL BE FURNISHED AND INSTALLED IN COLOR AS DIRECTED BY THE ARCHITECT OR OWNER.
A.)OUTLETS SERVED FROM AN EMERGENCY POWER SYSTEM SHALL BE RED.
B.)OUTLETS SERVED FROM THE NORMAL POWER SYSTEM SHALL BE CONFIRMED WITH ARCHITECT.
C.)OUTLETS SERVED FROM AN ISOLATED GROUND SHALL BE ORANGE WITH ISOLATED GROUND (TRIANGULAR) MARKING.

E. CONDUIT HANGERS
1. FOR INDIVIDUAL CONDUIT RUNS NOT DIRECTLY FASTENED TO THE STRUCTURE, USE ROD HANGERS MANUFACTURED BY CADDY, UNISTRUT OR POWERSTRUT. FOR MULTIPLE CONDUIT RUNS, USE UNISTRUT OR POWERSTRUT TRAPEZE TYPE CONDUIT SUPPORT DESIGNED FOR MAXIMUM DEFLECTION NOT GREATER THAN 1/8".

2.03 PANELBOARDS
A. UNLESS OTHERWISE NOTED ACCEPTABLE MANUFACTURERS ARE EATON CUTLER HAMMER, SQUARE D, SIEMENS, GENERAL ELECTRIC, OR APPROVED EQUAL. ELECTRICAL EQUIPMENT ARE BASED ON THE FOLLOWING:
1. LIGHTING AND APPLIANCE PANELBOARDS - SQUARE D NF AND NQOD OR EQUAL
2. POWER PANELBOARDS - SQUARE D, I LINE OR EQUAL
A.)CONSTRUCTION: CABINETS SHALL BE OF CODE GAUGE, GALVANIZED STEEL, SURFACE OR FLUSH MOUNTED AS INDICATED. DOORS SHALL BE OF COLD-ROLLED STEEL WITH CONCEALED HINGES AND FLUSH CATCH AND LOCK. ALL PANELS SHALL BE KEYED ALIKE. PANELS LOCATED ADJACENT TO EACH OTHER SHALL HAVE IDENTICALLY SIZED ENCLOSURE AND TRIMS. MINIMUM PANEL WIDTH SHALL BE 20". FINISH EXPOSED PART WITH ONE COAT OF PRIMER AND ONE COAT OF LIGHT GREY ENAMEL SUITABLE FOR OVER-PAINTING IN FIELD IF DESIRED.
B.)BUS BARS: PROVIDE GROUND BLOCK WITH FULL COMPLEMENT OF TERMINALS IN ADDITION TO INSULATED NEUTRAL BUS. FUTURE BREAKER SPACES SHALL HAVE COMPLETE PROVISIONS, INCLUDING BUSSES AND CONNECTING HARDWARE. BUS MATERIAL SHALL BE COPPER OR ALUMINUM FOR INDOOR TYPE AND COPPER FOR OUTDOOR TYPE PANELBOARD.
C.)CIRCUIT BREAKERS: SHALL BE QUICK-MAKE, QUICK-BREAK, MOLDED CASE TYPE:
i. SHALL BE SQUARE D TYPE "QOB" LINE, BOLT-ON TYPE, WITH MINIMUM SYMMETRICAL INTERRUPTING CAPACITY AS SHOWN.
ii. PROVIDE MULTI-POLE UNITS WITH COMMON TRIP ELEMENT.
B. IDENTIFICATION: PROVIDE SCREWED-ON (NO ADHESIVES) BAKELITE OR PHOTO-ETCHED METALLIC NAMEPLATE IDENTIFICATION ON OUTSIDE OF EACH PANEL SHOWING PANEL DESIGNATION, VOLTAGE, PHASE, PANEL SOURCE AND MAIN FEEDER BREAKER SIZE (EXAMPLE: "PANEL LA1, 200A, 208Y/120V, 3PH, 4W, FED FROM 200A CB IN PANEL LA") IN MINIMUM 1/8" HIGH LETTERS. EACH PANEL SHALL CONTAIN A METAL-FRAMED CIRCUIT DIRECTORY INSIDE COVER, WITH PLASTIC PROTECTOR.
C. COMPLETE SHOP DRAWINGS ARE REQUIRED. DIMENSIONS SHALL MATCH FLOOR PLANS AND ELEVATIONS.

2.04 LOAD CENTERS (FOR RESIDENTIAL ONLY OR IF ALLOWED BY THE ENGINEER OF RECORD)
A. LOAD CENTERS TO BE FURNISHED AND INSTALLED AT LOCATIONS AS SHOWN ON THE DRAWINGS. LOAD CENTERS SHALL BE OF THE TYPE APPROVED, INDICATED, AND SPECIFIED HEREIN.
B. ENCLOSURE SHALL BE FABRICATED OF COLD ROLLED STEEL FOR NEMA 1 AND GALVANNEALED STEEL OR EQUIVALENT RUST-RESISTANT STEEL FOR NEMA 3R. INDOOR TYPE L ENCLOSURES SHALL HAVE A FLUSH FRONT, WITH FINISH TO BE AS SELECTED BY ARCHITECT. WHEN USED, OUTDOOR TYPE 3R ENCLOSURES SHALL HAVE A HASP TO SECURE THE COVER. A DIRECTORY LABEL SHALL BE PROVIDED WITH CIRCUITS IDENTIFIED AS INDICATED ON THE SCHEDULE
C. BUS BAR CONNECTIONS TO THE BRANCH CIRCUIT BREAKERS SHALL BE THE DISTRIBUTED PHASE TYPE AND SHALL ACCEPT PLUG-ON CIRCUIT BREAKERS. 300-400 A LOAD CENTERS SHALL ACCEPT A 150 A MAXIMUM BOLT-ON BREAKER IN ADDITION TO PLUG-ON TYPES. C. SHORT CIRCUIT CURRENT RATINGS. AMPERE RMS SYMMETRICAL SHORT CIRCUIT RATINGS SHALL BE COORDINATED WITH PG&E.
D. CIRCUIT BREAKERS SHALL BE SQUARE D TYPE QO (PLUG-ON) THERMAL MAGNETIC TRIP OR APPROVED EQUAL, WITH AN INTEGRAL CROSSBAR TO ENSURE SIMULTANEOUS OPENING OF ALL POLES IN MULTI-POLE CIRCUIT BREAKERS. CIRCUIT BREAKERS SHALL HAVE AN OVERCENTER, TRIPFREE, TOGGLE-TYPE OPERATING MECHANISM WITH QUICK-MAKE, QUICK-BREAK ACTION AND POSITIVE HANDLE INDICATION. HANDLES SHALL HAVE ON, OFF, AND "TRIPPED" POSITIONS. IN ADDITION, TRIP INDICATION SHALL INCLUDE A VISI-TRIP INDICATOR APPEARING IN THE WINDOW OF THE CIRCUIT BREAKER CASE (THROUGH 125 AMPERES). CIRCUIT BREAKERS SHALL BE UL LISTED IN ACCORDANCE WITH UL STANDARD 489 WITH CURRENT RATINGS AS NOTED ON THE PLANS. INTERRUPTING RATINGS SHALL BE SELECTED TO PROVIDE THE REQUIRED LOAD CENTER SHORT CIRCUIT CURRENT RATING.
E. MANUFACTURERS: PANELBOARDS SHALL BE GENERAL ELECTRIC TYPE "AQ" OR TYPE "AE" OR EQUIVALENT PRODUCTS OF EATON, SQUARE-D OR SIEMENS-ITE.

2.05 SERVICE ENTRANCE EQUIPMENT
A. SERVICE ENTRANCE EQUIPMENT ARE SUBJECT TO THE REQUIREMENTS OF THE UTILITY COMPANIES PROVIDING SERVICES TO PROJECT SITE. EQUIPMENT SHOWN ON THE CONSTRUCTION DOCUMENTS IS A GENERAL GUIDELINE AND SHALL BE ADJUSTED TO MEET SPECIFIC UTILITIES REQUIREMENTS. CONTRACTOR TO PROVIDE METERING EQUIPMENT SUBMITTALS FOR UTILITY COMPANY REVIEW AND APPROVAL PRIOR TO ORDERING OF EQUIPMENT.
B. ENCLOSURES, PULL SECTIONS, AND TERMINATIONS SHALL BE TOTALLY ENCLOSED, DEAD FRONT, FREE-STANDING, FRONT AND REAR ALIGNED. ACCESSIBILITY SHALL BE FROM THE FRONT. THE EQUIPMENT SHALL BE NEMA TYPE 1 OR NEMA TYPE 3R NON-WALK-IN RAINPROOF. THE FRAMEWOR

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I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
04A FITTING ROOM VESTIBULE	Corridor (Low Vision)	0.7	54	37.8	No	No
04A ACCESSIBLE FITTING ROOM	Retail Fitting Rm	0.6	55	33	No	No
09 MANAGER'S OFFICE	Office (<=250 square feet)	0.65	73	47.45	No	No
05 STOCKROOM	Commercial Industrial Storage Area	0.4	5,181	2,072.4	No	No
10 HALLWAY	Corridor (Low Vision)	0.7	196	137.2	No	No
02 DISPLAY AREA	Retail Merchandise Sales Wholesale Showroom	0.95	216	205.2	No	No
01 SALES AREA	Retail Merchandise Sales Wholesale Showroom	0.95	5,882	5,587.9	No	No
		TOTALS:	11,657	8,120.95	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

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K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This table includes areas using the Tailored Method per 140.6(c)3 / 170.2(e)4B. If additional Tailored Method "use it or lose it" allowances are used it is also indicated. Lighting that qualifies for one of the additional allowances shall not qualify for another additional allowance.

Conditioned Spaces

General Lighting Power Allowance Table K(below)	Additional "Use it or lose it" Allowance (Watts)				1
	☒ Wall Display Lighting	☒ Floor Display & Task Lighting	☐ Decorative & Special Effects	☐ Very Valuable Merchandise	Total Allowed Watts using Tailored Method
	Table L	Table M	Table N	Table O	
4705.6	1404	5064.1	0	0	11173.7

Calculated General Lighting Power Allowance

02	03	04	05	06	07	08	09
Area Description (per room)	Primary Function Area per Table 140.6-D/ 170.2-N	Illuminance Value (LUX)	Room Configuration	Allowed Density (W/ft²)	Area (ft²)	Extra Allowance (Watts)	Power Adjustment (See Table P) PAF
01 SALES AREA	Retail Merchandise Sales Area	500 lux	Rectangular	0.8	5882	4705.6 ☐	PAF
			Room Length (ft)	Room Width (ft)	Height (ft)¹	Room Cavity Ratio (RCR)	
			83	71	12	1.57	
					Total General Power Allowance CONDITIONED SPACES:		4705.6

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L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	11
Area Description	CALCULATED ALLOWANCE(Watts)			DESIGN WATTS						Additional Allowance (Watts)
	Wall Display Length (lf)	Wall Display Density (W/lf)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Mounting Height (ft)	Mounting Height Factor	Watts per Luminaire	# of Luminaires	Total Design Watts	
01 SALES AREA	265	11.5	3047.5	LT06	10'7" to 14'	0.85	10800	0	1404	
							Total Design Watts for this Area:		1404	1404
							Total Additional Allowance (Watts) CONDITIONED SPACES:			**1404**

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	11
Area Description	CALCULATED ALLOWANCE (Watts)			DESIGN WATTS						Additional Allowance (Watts)
	Area (ft²)	Allowed Density (W/ft²)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Mounting Height (ft)	Mounting Height Factor	Watts per Luminaire	# of Luminaires	Total Design Watts	
01 SALES AREA	5221	0.7	3654.7	LT06	10'7" to 14'	0.85	10800	0	9396	
							Total Design Watts for this Area:		9396	5064.1
							Total Additional Allowance (Watts) CONDITIONED SPACES:			**5064.1**

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

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P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

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CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
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V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	01 SALES AREA; 02 DISPLAY AREA; 04A ACCESSIBLE FITTING ROOM; 04A FITTING ROOM VESTIBULE; 09 MANAGER'S OFFICE; 05 STOCKROOM; 10 HALLWAY
NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	01 SALES AREA; 02 DISPLAY AREA; 04A ACCESSIBLE FITTING ROOM; 04A FITTING ROOM VESTIBULE; 09 MANAGER'S OFFICE; 05 STOCKROOM; 10 HALLWAY

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: WILSON LEE	Documentation Author Signature:
Company: ACIES ENGINEERING	Signature Date: 2025-07-10
Address: 400 N. McCarthy Blvd., Suite 250	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Milpitas, CA 95035	Phone: 408-522-5255

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Wilson Lee, P.E.	Responsible Designer Signature:
Company: ACIES Engineering	Date Signed: 2025-07-10
Address: 400 N. McCarthy Blvd., Suite 250	License: E015418
City/State/Zip: Milpitas, CA 95035	Phone: 408-522-5255

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REGISTERED PROFESSIONAL ENGINEER WILSON LEE No.E015418 Exp. 06/30/27 ELECTRICAL STATE OF CALIFORNIA

A Project for:

JD SPORTS #1425
LAS AMERICAS PREMIUM OUTLETS

4155 CAMINO DE LA PLAZA SPACE 0448A
SAN DIEGO, CA 92173

1

PORTFOLIO REFERENCE ONLY

Client:
JD SPORTS

3308 N. MITTHOEFFER ROAD
INDIANAPOLIS, IN 46235

ELECTRICAL
COMPLIANCE FORMS

Sheet #:
E-042

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LIGHTING CONTROL PANEL 'LCP'

LOCATION: BOH - ELECTRICAL AREA

CONTACT #	PNL / CKT#	DESCRIPTION	CONTROL TYPE	LIGHTING CONTROL ZONE	REMARKS
1	L-1	SALES TRACK LIGHTING	ASTRONOMICAL TIMECLOCK BUILT INTO LCP	V	PROVIDE DIMMING SWITCH FOR LOCAL CONTROL LOCATED IN MANAGER'S OFFICE
2	L-2	SALES TRACK LIGHTING	ASTRONOMICAL TIMECLOCK BUILT INTO LCP	v1	PROVIDE DIMMING SWITCH FOR LOCAL CONTROL LOCATED IN MANAGER'S OFFICE
3	L-3	SALES TRACK LIGHTING	ASTRONOMICAL TIMECLOCK BUILT INTO LCP	q	PROVIDE DIMMING SWITCH FOR LOCAL CONTROL LOCATED IN MANAGER'S OFFICE
4	L-5	SALES TRACK LIGHTING	ASTRONOMICAL TIMECLOCK BUILT INTO LCP	r	PROVIDE DIMMING SWITCH FOR LOCAL CONTROL LOCATED IN MANAGER'S OFFICE
5	L-7	SALES TRACK LIGHTING	ASTRONOMICAL TIMECLOCK BUILT INTO LCP	s	PROVIDE DIMMING SWITCH FOR LOCAL CONTROL LOCATED IN MANAGER'S OFFICE
6	L-9	SALES TRACK LIGHTING	ASTRONOMICAL TIMECLOCK BUILT INTO LCP	t	PROVIDE DIMMING SWITCH FOR LOCAL CONTROL LOCATED IN MANAGER'S OFFICE
7	L-11	SALES TRACK LIGHTING	ASTRONOMICAL TIMECLOCK BUILT INTO LCP	U	PROVIDE DIMMING SWITCH FOR LOCAL CONTROL LOCATED IN MANAGER'S OFFICE
8	L-13	GENERAL SALES LIGHTING	ASTRONOMICAL TIMECLOCK BUILT INTO LCP	w	PROVIDE DIMMING SWITCH FOR LOCAL CONTROL LOCATED IN MANAGER'S OFFICE
9	L-15	GENERAL SALES LIGHTING	ASTRONOMICAL TIMECLOCK BUILT INTO LCP	x	PROVIDE DIMMING SWITCH FOR LOCAL CONTROL LOCATED IN MANAGER'S OFFICE
10	L-17	GENERAL SALES LIGHTING	ASTRONOMICAL TIMECLOCK BUILT INTO LCP	y	PROVIDE DIMMING SWITCH FOR LOCAL CONTROL LOCATED IN MANAGER'S OFFICE
11	L-31	CASHWRAP LIGHTING	ASTRONOMICAL TIMECLOCK BUILT INTO LCP	z	PROVIDE DIMMING SWITCH FOR LOCAL CONTROL LOCATED IN MANAGER'S OFFICE
12	L-4	STOREFRONT SIGNAGE	ASTRONOMICAL TIMECLOCK BUILT INTO LCP	j	PROVIDE DIMMING SWITCH FOR LOCAL CONTROL LOCATED IN MANAGER'S OFFICE
13	L-10	STOREFRONT SIGNAGE	ASTRONOMICAL TIMECLOCK BUILT INTO LCP	j	PROVIDE DIMMING SWITCH FOR LOCAL CONTROL LOCATED IN MANAGER'S OFFICE
14	L-33	SHOW WINDOW RECEPS	ASTRONOMICAL TIMECLOCK BUILT INTO LCP	j	PROVIDE DIMMING SWITCH FOR LOCAL CONTROL LOCATED IN MANAGER'S OFFICE
15	L-35	SHOW WINDOW RECEPS	ASTRONOMICAL TIMECLOCK BUILT INTO LCP	j	PROVIDE DIMMING SWITCH FOR LOCAL CONTROL LOCATED IN MANAGER'S OFFICE
16	L-37	SHOW WINDOW RECEPS	ASTRONOMICAL TIMECLOCK BUILT INTO LCP	j	PROVIDE DIMMING SWITCH FOR LOCAL CONTROL LOCATED IN MANAGER'S OFFICE
17	L-39	SHOW WINDOW RECEPS	ASTRONOMICAL TIMECLOCK BUILT INTO LCP	j	PROVIDE DIMMING SWITCH FOR LOCAL CONTROL LOCATED IN MANAGER'S OFFICE
18	L-41	SHOW WINDOW RECEPS	ASTRONOMICAL TIMECLOCK BUILT INTO LCP	j	PROVIDE DIMMING SWITCH FOR LOCAL CONTROL LOCATED IN MANAGER'S OFFICE
19	B-1	PERIMETER WALL RECEPS	ASTRONOMICAL TIMECLOCK BUILT INTO LCP	k	PROVIDE DIMMING SWITCH FOR LOCAL CONTROL LOCATED IN MANAGER'S OFFICE
20	B-3	PERIMETER WALL RECEPS	ASTRONOMICAL TIMECLOCK BUILT INTO LCP	k	PROVIDE DIMMING SWITCH FOR LOCAL CONTROL LOCATED IN MANAGER'S OFFICE
21	B-5	PERIMETER WALL RECEPS	ASTRONOMICAL TIMECLOCK BUILT INTO LCP	k	PROVIDE DIMMING SWITCH FOR LOCAL CONTROL LOCATED IN MANAGER'S OFFICE
22	B-7	PERIMETER WALL RECEPS	ASTRONOMICAL TIMECLOCK BUILT INTO LCP	k	PROVIDE DIMMING SWITCH FOR LOCAL CONTROL LOCATED IN MANAGER'S OFFICE
23	B-9	PERIMETER WALL RECEPS	ASTRONOMICAL TIMECLOCK BUILT INTO LCP	k	PROVIDE DIMMING SWITCH FOR LOCAL CONTROL LOCATED IN MANAGER'S OFFICE
24	B-11	PERIMETER WALL RECEPS	ASTRONOMICAL TIMECLOCK BUILT INTO LCP	k	PROVIDE DIMMING SWITCH FOR LOCAL CONTROL LOCATED IN MANAGER'S OFFICE
25	B-28	H WALL RECEPTACLES	ASTRONOMICAL TIMECLOCK BUILT INTO LCP	k	PROVIDE DIMMING SWITCH FOR LOCAL CONTROL LOCATED IN MANAGER'S OFFICE
26	B-29	H WALL RECEPTACLES	ASTRONOMICAL TIMECLOCK BUILT INTO LCP	k	PROVIDE DIMMING SWITCH FOR LOCAL CONTROL LOCATED IN MANAGER'S OFFICE
27	B-30	H WALL RECEPTACLES	ASTRONOMICAL TIMECLOCK BUILT INTO LCP	k	PROVIDE DIMMING SWITCH FOR LOCAL CONTROL LOCATED IN MANAGER'S OFFICE
28	B-31	H WALL RECEPTACLES	ASTRONOMICAL TIMECLOCK BUILT INTO LCP	k	PROVIDE DIMMING SWITCH FOR LOCAL CONTROL LOCATED IN MANAGER'S OFFICE
29		SPARE			
30		SPARE			

GENERAL NOTES:

A. SEE GENERAL NOTES ON SHEET E-001.

B. INSTALLATIONS OF CONDUITS AND WIRES SHALL BE CONCEALED ABOVE THE CEILING AND BEHIND WALLS. WHERE NOT POSSIBLE, CONTRACTOR SHALL OBTAIN APPROVAL FOR EXPOSED LOCATIONS PRIOR TO ROUGH IN. USE WIREMOLD IN EXPOSED AREAS.

C. PROVIDE 2#12 AWG + 1#12 AWG G WIRE (MIN.) IN 3/4"C. FOR LIGHTING CIRCUITS UNLESS OTHERWISE NOTED.

D. COORDINATE INSTALLATION OF LIGHT FIXTURES WITH MECHANICAL WORK AND OTHER TRADES.

E. ALL EMERGENCY BATTERY PACK IN EMERGENCY LIGHT FIXTURES SHALL BE WIRED AHEAD OF ALL LIGHT SWITCHES, OCCUPANCY SENSORS AND LIGHTING CONTROLS. FIXTURE SHALL RETAIN LOCAL ON/OFF CONTROL.

F. THE CONTRACTOR SHALL COORDINATE THE EXACT MOUNTING LOCATION OF ALL LIGHT FIXTURES, LIGHT SWITCHES AND ANY OTHER DEVICE LOCATIONS SHOWN ON THIS PLAN WITH THE ARCHITECTURAL FLOOR PLAN, ARCHITECTURAL REFLECTED CEILING PLAN, AND ARCHITECTURAL INTERIOR ELEVATIONS. LOCATIONS SHOWN IN ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE. DEVICES NOTE LOCATED ON THE ARCHITECTURAL DRAWINGS SHALL BE COORDINATED WITH THE ARCHITECT IN THE FORM OF RFI (REQUEST FOR INFORMATION). CONTRACTOR SHALL ASSUME THAT THE DEVICES ARE TO BE MOUNTED CENTERED ON THE WALLS, SECTION OF WALLS, WINDOWS, ETC. AND THAT ADDITIONAL MOUNTING BRACKETS AND ACCESSORIES SHALL BE A PART OF THE BID PROPOSAL.

G. FINAL EMERGENCY AND EXIT SIGN REQUIREMENTS TO BE INSTALLED PER FIRE INSPECTOR'S DIRECTION. CONTRACTOR SHALL PROVIDE ADDITIONAL EMERGENCY AND EXIT LIGHTING AS REQUIRED.

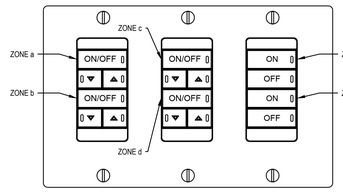
H. ALL EXPOSED CONDUIT AND JUNCTION BOXES RUNNING TO SALES AREA LIGHTING SHALL BE PAINTED PT-3 BLACK.

I. LCP TIMECLOCK SHALL PROVIDE CONTROLS FOR THE DESIGN ZONE, INCLUDING BUT NOT LIMITED TO; STOREFRONT SIGNAGE, SHOW WINDOW LIGHTING, SHOW WINDOW RECEPTACLES, AND ENTRY LIGHTING. PROVIDE NECESSARY PLUG LOAD RELAY PACKS RECEPTACLE CONTROLS.

KEY NOTES: (X)

1. LIGHTING SYSTEM CONTROLLER WITH ASTRONOMICAL TIME CLOCK IN NEMA 1 ENCLOSURE FOR AUTO-SHUTOFF AND DEMAND RESPONSE OF INTERIOR LIGHTING, NLIGHT NECY-MVOLT, NBRG-8 FOR CONTROL ZONE CONNECTION. LOCATED UNDER LIGHTING CONTROL RELAY PANEL.
2. LIGHTING CONTROL RELAY PANEL, NLIGHT ARP.
3. PROVIDE BREAK IN TRACK CIRCUITRY.
4. PROVIDE POWER TO TRACK LIGHTING THROUGH END FEED CURRENT LIMITERS. CURRENT LIMITER SIZE AS SHOWN.
   HOMERUN: 2#10 AWG + 1#10 AWG GND WIRE IN 3/4"C.
5. LIGHTING CONTROL SWITCHBANK FOR SALES LIGHTING. SWITCH SHALL HAVE LOCAL INDICATOR LIGHTS SHOWING THE CURRENT STATE OF THE CONTROLLED LIGHTING. PROVIDE WALL SWITCH WITH DIMMING CONTROL, nLIGHT nPODM-DX.
6. PROVIDE CEILING PASSIVE DUAL TECH OCCUPANCY SENSOR, nLIGHT nCM-PDT-10.
7. PROVIDE WALL SWITCH OCCUPANCY SENSOR, NLIGHT nWSXA.
8. PROVIDE WALL SWITCH, nLIGHT nPODM.
8A. PROVIDE WALL SWITCH WITH DIMMING CONTROL, nLIGHT nPODM-DX.
9. PROVIDE POWERPACK COMPATIBLE WITH LIGHT FIXTURE AND CONTROLS, nLIGHT nPP16.
9A. PROVIDE POWERPACK COMPATIBLE WITH LIGHT FIXTURE AND CONTROLS, WITH DIMMING, nLIGHT nPP16-D.
9B. PROVIDE POWERPACK COMPATIBLE WITH LIGHT FIXTURE AND CONTROLS, WITH PHASE DIMMING, nLIGHT nSP5-PCD.
10. EMERGENCY FIXTURE SHALL BE CONNECTED TO AN UNSWITCHED CIRCUIT SERVING THE AREA.
11. EXISTING LIGHTS AND SWITCH TO REMAIN. RELAMP AND RECONDITION EXISTING LIGHTS AS REQUIRED. RECONNECT POWER CONNECTIONS AND CIRCUITRY AS SHOWN.
12. INSTALL A COMPATIBLE PLUG LOAD CONTROLLER FOR SWITCHED RECEPTACLES IN MANAGER'S OFFICE.

MULTI-BUTTON LIGHTING CONTROL SWITCH



NOTES:

1. SWITCH SHALL HAVE LOCAL INDICATOR LIGHTS SHOWING THE CURRENT STATE OF THE CONTROLLED DEVICES.
2. PROVIDE COMPATIBLE POWERPACKS FOR RECEPTACLES AND SIGNAGE CIRCUITS.
3. REFER TO LIGHTING CONTROL PANEL SCHEDULE FOR LOADS CONTROLLED BY EACH ZONE.

ELECTRICAL LIGHTING PLAN | SCALE 3/16"=1'-0" | 1

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ELECTRICAL LIGHTING PLAN

Sheet #:

E-101

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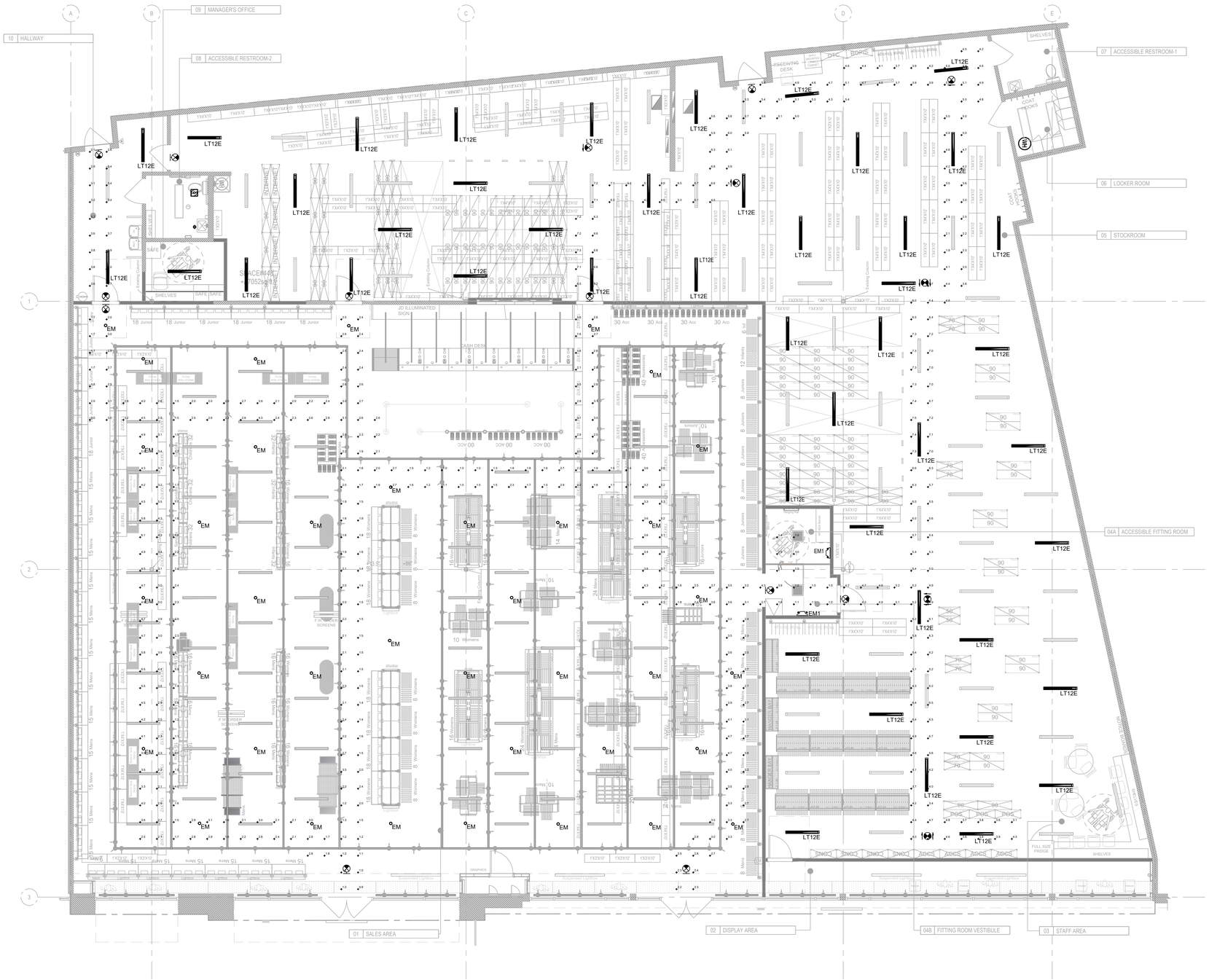

Schedule								
Symbol	Label	Quantity	Catalog Number	Description	Lamp	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
◯	EM	60	ELS3 CREE CONFIGURATION	FORMED STEEL AND CAST ALUMINUM HOUSING, FORMED WHITE ENAMEL STEEL REFLECTOR, CLEAR LINEAR PRISMATIC PLASTIC LENS.	THREE WHITE LEDS	1	433	1	14.7
|	LT12E	81	FSS440L840-UNV-DIM	4' FLUXSTREAM STRIP 2-FORTIMO LED STRIP VO 4000K BOARDS 40W DRIVER 655mA		1	4076	0.27	29.9
◯	EM1	6	EU2L M12	Low Profile, Contractor Select, Emergency Lighting unit	LED	1	75	1	0.8

Statistics						
Description	Symbol	Max	Min	Max/Min	Avg/Min	Avg
BOH/Stock Room	+	5.8 fc	1.3 fc	4.5:1	2.9:1	3.8 fc
Egress	+	7.5 fc	1.0 fc	7.5:1	4.3:1	4.3 fc
Sales Area	+	6.9 fc	1.0 fc	6.9:1	4.0:1	4.0 fc
Staff Area/BOH/Stock Room	+	4.7 fc	1.2 fc	3.9:1	2.6:1	3.1 fc
Vestibule	+	10.0 fc	1.0 fc	10.0:1	5.6:1	5.5 fc

GENERAL NOTES:

A. REFER TO SHEET A00.3 FOR EMERGENCY EGRESS PATH.

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ELECTRICAL
EMERGENCY EGRESS PLAN

Sheet #:

△1 E-101A

ELECTRICAL EMERGENCY EGRESS PLAN | SCALE 3/16"=1'-0" | 1

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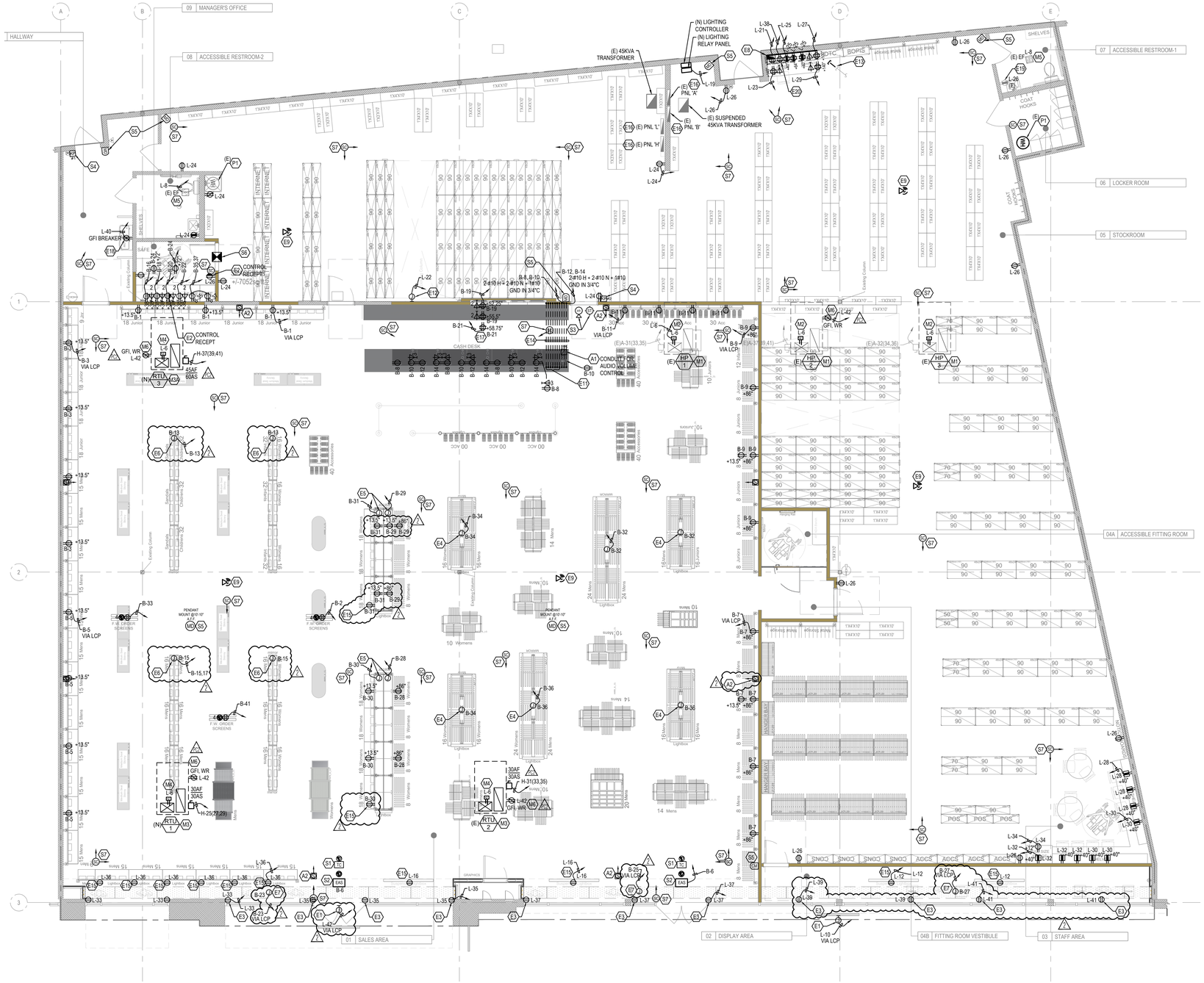

POWER KEY NOTES: (X)

E1. PROVIDE JUNCTION BOX FOR SIGNAGE. SIGNAGE PROVIDED WITH LOCAL DISCONNECT SWITCH. COORDINATE EXACT REQUIREMENTS WITH SIGNAGE VENDOR DRAWINGS PRIOR TO ROUGH-IN.

E1A. PROVIDE JUNCTION BOX AND LOCAL DISCONNECT SWITCH FOR SIGNAGE. LOCAL DISCONNECT SWITCH SHALL BE INSTALLED IN A CONCEALED, BUT ACCESSIBLE, LOCATION WITHIN SIGHT OF THE SIGN. COORDINATE EXACT REQUIREMENTS WITH SIGNAGE VENDOR DRAWINGS PRIOR TO ROUGH-IN.

E2. PROVIDE A PERMANENTLY LABELED SPLIT WIRED RECEPTACLE FOR NORMAL AND AUTOMATIC SHUT-OFF CONTROL OF PLUG LOAD. LEVITON #5362-1P OR EQUAL. TOP RECEPTACLE SHALL SHUT OFF WHEN OCCUPANCY SENSOR REPRESENTS A VACANT STATE. PROVIDE A COMPATIBLE POWER PACK.

E3. PROVIDE SHOW WINDOW RECEPTACLES AND CONNECT TO NEW CIRCUIT AS SHOWN.

E4. PROVIDE POWER TO SALES FIXTURE FROM JUNCTION BOX MOUNTED AT TOP OF FIXTURE. POWER PROVIDED VIA CURLY WIRE DROPPED FROM CEILING MOUNTED JUNCTION BOX. COORDINATE EXACT REQUIREMENTS WITH ARCHITECTURAL PLANS AND MILLWORK VENDOR.

E5. PROVIDE POWER TO SALES FIXTURE FROM JUNCTION BOX MOUNTED AT TOP OF FIXTURE. ROUTE 3/4" GALVANIZED CONDUIT FROM JUNCTION BOX AT STRUCTURE ABOVE. COORDINATE EXACT REQUIREMENTS WITH ARCHITECTURAL PLANS AND MILLWORK VENDOR.

E6. PROVIDE POWER TO SALES FIXTURE FROM JUNCTION BOX MOUNTED AT TOP OF FIXTURE. ROUTE 3/4" CONDUIT FROM JUNCTION BOX AT STRUCTURE ABOVE. COORDINATE FINAL LOCATIONS OF JUNCTION BOXES WITHIN FIXTURE IN FIELD WITH JD SPORTS PM.

E7. PROVIDE JUNCTION BOX AND POWER TO INTERNALLY ILLUMINATED VERTICAL CHANNEL SIGN. PROVIDE ALL LOCAL DISCONNECT SWITCH AND LOCATE IN A NON-VISIBLE ACCESSIBLE LOCATION. COORDINATE WITH POSTAL LIGHT PANEL MANUFACTURER FOR EXACT LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN. ROUTE VIA LIGHTING CONTROL PANEL. 1

E8. TELEPHONE TERMINAL BOARD: 8'-0" WIDE X 4'-0" HIGH X 3/4" FIRE RETARDANT PLYWOOD BACKBOARD. BACKBOARD SHALL BE PAINTED TO MATCH ADJACENT WALL FINISH. PLYWOOD MARKINGS SHALL NOT BE PAINTED OVER FOR INSPECTION. PROVIDE CODE APPROVED GROUNDING FOR TELEPHONE/DATA AND CAT V SERVICE. PROVIDE GROUND BUS BAR MOUNTED ON THE BACKBOARD AND #6 INSULATED GROUND WIRE RUN TO THE POWER GROUNDING SYSTEM. REFER TO DETAIL ON DWG. E-401 FOR MOUNTING HEIGHT AND ADDITIONAL INFORMATION.

E9. PROVIDE CABLING AND JUNCTION BOX FOR WIRELESS ACCESS POINT. JUNCTION BOX SHOULD BE AT A MAXIMUM HEIGHT OF 15', HOMERUN THE CABLES TO A.T.S. BACKBOARD. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH IT DRAWINGS PRIOR TO ROUGH-IN.

E10. NOT USED.

E11. PROVIDE (1) 1-1/4"C. WITH PULL STRING PER P.O.S. FROM DATA OUTLET LOCATION AND STUB TO ACCESSIBLE CEILING. ROUTE CABLING EXPOSED ON CEILING SPACE IN CLEAN AND CONCEALED MANNER. PROVIDE CABLE SUPPORTS (J-HOOKS, ETC.) FOR CABLE MANAGEMENT.

E12. PROVIDE HARDWIRED POWER CONNECTION FOR CASHWRAP JD SIGN. POWER SUPPLY AND LOCAL DISCONNECT PROVIDED BY SIGNAGE VENDOR. CONTRACTOR TO REQUEST COPY OF SIGNAGE SHOP DRAWINGS AND FIELD VERIFY EXACT LOCATION WITH PROJECT MANAGER PRIOR TO ROUGH-IN.

E13. EXTEND EXISTING TELECOM SERVICE CONDUIT TO LOCATION OF THE NEW TELEPHONE BACKBOARD AS SHOWN. FIELD VERIFY EXACT LOCATION OF THE EXISTING CONDUIT AND MATCH THE CONDUIT SIZE.

E14. PROVIDE CONDUITS AS INDICATED ON PLAN. ROUTE CONDUITS UNDER FLOOR SLAB AS SHOWN. COORDINATE SLAB CORING WITH MALL MANAGEMENT / LANDLORD PRIOR TO ROUGH IN.

E15. WIRE AND ASSEMBLE LIGHT BOX ONSITE AND PROVIDE POWER AS SHOWN. COORDINATE INSTALLATION AND REQUIRMENTS IN FIELD WITH JD SPORTS PM.

E16. REFER TO KEYNOTES AT SINGLE LINE DIAGRAM ON SHEET E-401 FOR CONVERTING EXISTING PANEL TO SURFACE MOUNT.

E17 PROVIDE POWER AND DATA CONNECTIONS FOR DIGITAL DISPLAY AS SHOWN. COORDINATE INSTALLATION AND REQUIREMENTS IN FIELD WITH JD SPORTS PM.

E18. EXISTING DRINKING FOUNTAIN TO REMAIN. FIELD VERIFY AND PROVIDE POWER CONNECTION AS REQUIRED AND PROVIDE GFCI PROTECTION AT BREAKER.

E19. EXISTING RECEPTACLE TO REMAIN. CONNECT TO NEW CIRCUIT AS SHOWN.

E20. PROVIDE 120V CIRCUIT FOR DETAGGER AT RECEIVING DESK. VERIFY EXACT MOUNTING HEIGHT AND LOCATION WITH JDS PM.

M1. EXISTING HEAT PUMP TO REMAIN. MAINTAIN EXISTING POWER CONNECTION TO EXISTING CIRCUIT SERVING THE UNIT. FIELD VERIFY EXACT LOCATION AND MAINTAIN COMPLETE AND OPERABLE SYSTEM.

M2. PROVIDE DUCT SMOKE DETECTOR TO EXISTING HEAT PUMP IF NONE EXISTING. PROVIDE POWER CONNECTION TO CIRCUIT SHOWN. COORDINATE WORK WITH M.C. AND FIRE ALARM CONTRACTOR.

M3. PROVIDE POWER FOR NEW ROOFTOP UNIT. PROVIDE N3R DISCONNECT SWITCH: 600V, 30A, 3P WITH 30A FUSE HOMERUN: 3-#10 CU + 1#10CU GND IN 1" C. TO CIRCUIT AS SHOWN.

M3A. PROVIDE POWER FOR NEW ROOFTOP UNIT. PROVIDE N3R DISCONNECT SWITCH: 600V, 60A, 3P WITH 45A FUSE HOMERUN: 3-#6 CU + 1#10CU GND IN 1" C. TO CIRCUIT AS SHOWN. 1

M4. PROVIDE DUCT SMOKE DETECTOR FOR NEW RTU'S. PROVIDE POWER CONNECTION TO CIRCUIT SHOWN. COORDINATE WORK WITH M.C. AND FIRE ALARM CONTRACTOR.

M5. EXISTING EXHAUST FAN UNIT TO REMAIN. RECONNECT POWER TO CIRCUIT AS SHOWN. FIELD VERIFY EXACTION AND MAINTAIN COMPLETE AND OPERABLE SYSTEM.

1 M6. PROVIDE WEATHER-PROOF, WEATHER-RESISTANT MAINTENANCE RECEPTACLE WITHIN 25 FEET OF ROOFTOP AND HEAT PUMP UNITS.

P1. EXISTING WATER HEATER TO REMAIN. MAINTAIN EXISTING POWER CONNECTION TO EXISTING CIRCUIT SERVING THE UNIT. VERIFY WITH P.C. AND FIELD VERIFY EXACT LOCATION AND MAINTAIN COMPLETE AND OPERABLE SYSTEM.

GENERAL NOTES:

A. SEE GENERAL NOTES ON SHEET E-001.

B. INSTALLATIONS OF LINE VOLTAGE POWER CONDUITS AND WIRES SHALL BE CONCEALED ABOVE THE CEILING AND BEHIND WALLS. WHERE NOT POSSIBLE, CONTRACTOR SHALL OBTAIN APPROVAL FOR EXPOSED LOCATIONS PRIOR TO ROUGH IN. USE WIREMOLD IN EXPOSED AREAS. REFER TO GENERAL NOTE E-001(5B). FOR ELECTRICAL DEVICES INSTALLED WITHIN THE DEMISING WALL.

C. COORDINATE ALL ELECTRICAL CONDUIT ROUTING TO AVOID CONFLICT WITH OTHER TRADES.

D. COORDINATE LOCATION OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL CONTROLS INFORMATION.

E. REFER TO MECHANICAL CONTROLS DIAGRAM FOR ADDITIONAL SCOPE OF WORK, SUCH AS POWER FOR THERMOSTATS, AND OTHER WORK REQUIRED BY ELECTRICAL CONTRACTOR AND NOT SPECIFICALLY MENTIONED IN ELECTRICAL DRAWINGS.

F. FIELD VERIFY EXACT LOCATION AND ELECTRICAL REQUIREMENTS OF ALL HVAC EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ORDERING RELATED ELECTRICAL EQUIPMENT

G. ALL PERMANENTLY CONNECTED (HARD-WIRED) APPLIANCES SHALL BE SERVED WITH DISCONNECTING MEAN WITHIN SIGHT OF THE UNIT, OR THE SERVING CIRCUIT BREAKER IN THE PANEL SHALL BE CAPABLE OF BEING LOCKED IN OPEN POSITION AS REQUIRED PER CEC 422.31.

H. ALL TRENCHING, CUTTING AND PATCHING OF EXISTING CONCRETE SLAB FLOOR, AS REQUIRED FOR THE INSTALLATION OF THE ELECTRICAL SYSTEMS SHOWN SHALL BE BY ELECTRICAL CONTRACTOR. PAINT ALL PATCHING TO MATCH ADJACENT EXISTING SURFACE.

I. ANY CONNECTION TO THE LANDLORD'S FIRE ALARM SYSTEM MUST BE MADE BY THE LANDLORD'S CONTRACTOR AT THE TENANT CONTRACTOR'S EXPENSE.

J. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO INQUIRE WITH THE LANDLORD'S REPRESENTATIVE AND LOCAL FIRE MARSHAL ON ANY FIRE ALARM SYSTEMS IN USE AT THE BUILDING OR AS OTHERWISE REQUIRED BY FIRE MARSHAL PRIOR TO BID. IF THE FIRE ALARM SYSTEM IS NOT ADEQUATELY DESCRIBED ON THE DRAWINGS, THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO INFORM THE GENERAL CONTRACTOR AND INCLUDE THE COST AS A SEPARATE LINE ITEM IN THE BID. NO ADDITIONAL MONIES SHALL BE AWARDED FOR TIE-IN REQUIREMENTS TO A LANDLORD'S FIRE ALARM SYSTEM THAT IS IN EXISTENCE AT THE TIME OF THE BID, WITHOUT A SEPARATE LINE ITEM FOR THE FIRE ALARM SYSTEM AT THE TIME OF THE BID.

K. COORDINATE ALL ROOF PENETRATIONS WITH THE LANDLORD. WRITTEN PERMISSION FROM THE LANDLORD SHALL BE RECEIVED PRIOR TO ANY WORK BEING PERFORMED. ALL ROOF PENETRATIONS TO BE BY LANDLORD'S CONTRACTOR AT TENANT'S ELECTRICAL CONTRACTOR'S EXPENSE.

L. NO HANGERS, SUPPORTS, JUNCTION BOXES, ETC. SHALL BE ATTACHED TO THE ROOF DECK.

M. RECEPTACLE AND FACEPLATE COLORS SHALL BE FIELD VERIFIED WITH ARCHITECT TO MATCH ADJACENT WALL FINISH.

N. REFER TO WALL FINISH PLAN A-125 FOR POWER / DATA FINISH INFORMATION.

O. FOR ALL DATA OUTLET LOCATIONS, PROVIDE 3/4" CONDUITS WITH PULLWIRE ALONG THE WALL FROM THE DEVICE LOCATION AND STUB-OUT THE CONDUIT TO THE ACCESSIBLE CEILING SPACE. CABLING SHALL BE INSTALLED EXPOSED ON CEILING SPACE IN CLEAN AND CONCEALED MANNER. PROVIDE CABLE SUPPORTS (J-HOOKS, ETC.) FOR CABLE MANAGEMENT.

P. ALL EXPOSED CONDUIT AND JUNCTION BOXES RUNNING TO SALES FIXTURES SHALL BE PAINTED PT-3 BLACK.

Q. ALL OUTLETS THAT ARE LOCATED ON THE SALES FLOOR PERIMETER WALL AND H-WALL MUST BE INSTALLED AT A HORIZONTAL ORIENTATION.

SECURITY KEY NOTES: (X)

S1. PROVIDE CEILING MOUNTED DATA OUTLET FOR TRAFFIC COUNTER. DATA/POWER SHOULD ROUTE DOWN ALL THREAD TO TC OR OUT OF THE SOFFIT TO AVOID PUBLIC VIEW. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH VENDOR.

S2. PROVIDE CEILING MOUNTED DATA OUTLET FOR EAS SYSTEM. DATA/POWER SHOULD ROUTE DOWN ALL THREAD TO EAS OR OUT OF THE SOFFIT TO AVOID PUBLIC VIEW. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH VENDOR.

S3. COORDINATE INSTALLATION OF WIRING FOR SIREN AND STROBE LIGHT WITH SECURITY VENDOR. CONTRACTOR TO CONFIRM WITH VENDOR THAT EXPOSED INSTALLATION OF WIRING IN CEILING SPACE IS ACCEPTABLE.

S4. COORDINATE INSTALLATION OF WIRING FOR ALARM KEYPAD WITH SECURITY VENDOR. CONTRACTOR TO CONFIRM WITH VENDOR THAT EXPOSED INSTALLATION OF WIRING IN CEILING SPACE IS ACCEPTABLE.

S5. COORDINATE INSTALLATION OF WIRING FOR MOTION DETECTOR WITH SECURITY VENDOR. CONTRACTOR TO CONFIRM WITH VENDOR THAT EXPOSED INSTALLATION OF WIRING IN CEILING SPACE IS ACCEPTABLE.

S6. COORDINATE INSTALLATION OF WIRING FOR DOOR CONTACT SENSOR. CONTRACTOR TO CONFIRM WITH VENDOR THAT EXPOSED INSTALLATION OF WIRING IN CEILING SPACE IS ACCEPTABLE.

S7. COORDINATE INSTALLATION OF WIRING FOR EACH CAMERA DOME LOCATION. CONTRACTOR TO CONFIRM WITH VENDOR THAT EXPOSED INSTALLATION OF WIRING IN CEILING SPACE IS ACCEPTABLE.

AUDIO KEY NOTES: (X)

A1. PROVIDE SINGLE-GANG JUNCTION BOX FOR AUDIO VOLUME CONTROL WITH 1/2" CONDUIT FROM ITS LOCATION AND STUB TO ACCESSIBLE CEILING. ROUTE WIRING EXPOSED ON CEILING SPACE IN CLEAN AND CONCEALED MANNER. SEE AUDIO VENDOR INSTALLATION DRAWINGS FOR ADDITIONAL INFORMATION.

A2. PROVIDE ALL NECESSARY WIRING FOR WALL MOUNTED SPEAKER. ROUTE WIRING EXPOSED ON CEILING SPACE IN CLEAN AND CONCEALED MANNER. SEE AUDIO VENDOR INSTALLATION DRAWINGS FOR ADDITIONAL INFORMATION.

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3308 N. MITTHOEFFER ROAD
INDIANAPOLIS, IN 46235

ELECTRICAL POWER PLAN

Sheet #:

E-201

ELECTRICAL POWER PLAN | SCALE 3/16"=1'-0" | 1

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GENERAL NOTES:

1. ALL ELECTRICAL EQUIPMENTS AND FEEDERS ARE EXISTING UNLESS OTHERWISE NOTED AS "(N)" FOR NEW.
2. RE-TORQUE ALL EXISTING TERMINATIONS PER MANUFACTURER RECOMMENDATION.
3. ONLY U.L LISTED EQUIPMENT SHALL BE USED.
4. PROVIDE ALL NECESSARY SIGNAGE, LABELING AND PLAQUES AS REQUIRED BY CEC 230.70(B), 695 & 700.
5. ELECTRICAL CONTRACTOR TO PROVIDE MAIN LUGS & ADAPTOR LUGS AS NEEDED FOR CONNECTIONS AT PANEL BOARDS AND EQUIPMENT.
6. ELECTRICAL CONTRACTOR TO PROVIDE ALL FUSES AS REQUIRED.
7. INSTALL ENGRAVED BAKELITE NAMEPLATE ON SERVICE DISCONNECT SWITCH IN LANDLORD'S SWITCHGEAR WITH DEMISED PREMISES' SPACE NUMBER.
8. PROVIDE UPDATED TYPEWRITTEN PANEL DIRECTORY ATTACHED TO THE BACKSIDE OF THE PANEL ENCLOSURE DOOR.

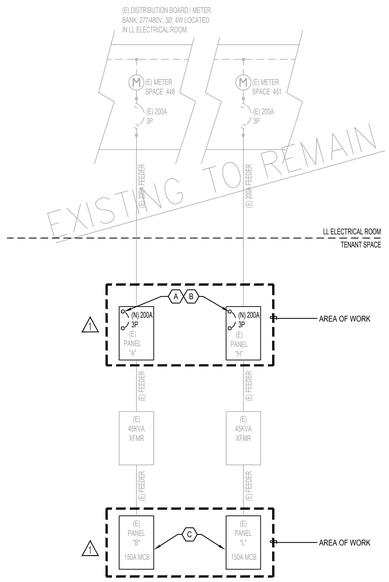
KEY NOTES: (X)

A. (N)200A MCB - PROVIDE MAIN BREAKER KIT PER MANUFACTURER SPECS. NEW 200 AMP MAIN BREAKERS TO BE INSTALLED TO MATCH THE SHORT CIRCUIT RATING OF THE EXISTING PANELS A AND H. EC TO FIELD VERIFY EXISTING RATING PRIOR TO WORK. (2)

B. ADD ALTERNATE: PROVIDE PRICING FOR SEPARATE DISCONNECT SWITCH 200AS/200AF AS REQUIRED. (1)

C. PROVIDE NEW UL LISTED SURFACE MOUNTED KIT FOR EXISTING PANEL PER MANUFACTURER SPECIFICATIONS. WHERE A SURFACE MOUNTED KIT IS NOT AVAILABLE, PROVIDE PRICING FOR A NEW PANEL WITH A 200A MAIN BREAKER, MATCH BREAKER AIC RATINGS PER PANEL SCHEDULES.

D. PROVIDE NEW UL LISTED SURFACE MOUNTED KIT FOR EXISTING PANEL PER MANUFACTURER SPECIFICATIONS. WHERE A SURFACE MOUNTED KIT IS NOT AVAILABLE, PROVIDE PRICING FOR A NEW PANEL WITH A 150A MAIN BREAKER, MATCH BREAKER RATINGS PER PANEL SCHEDULES.



VOLTAGE DROP CALCULATION (208/120V SYSTEM)

BRANCH CIRCUIT: 3% MAX

LOAD PER PHASE (KVA)	MAXIMUM SIZE CB (A)	WIRE SIZE (AWG)	GROUND WIRE SIZE (AWG)	MAXIMUM LENGTH OF BRANCH CIRCUIT PER UTILIZATION VOLTAGE (120V, 1PH)	(208V, 1PH)	(208V, 3PH)	NOTES AND REMARKS
< 1.92	20	#12	#12	56 FT.	85 FT.	113 FT.	A
		#10	#10	94 FT.	141 FT.	188 FT.	A
		#8	#8	144 FT	217 FT.	289 FT.	A
		#6	#6	230 FT.	345 FT.	460 FT.	A
< 1.44	20	#12	#12	75 FT.	113 FT.	150 FT.	A
		#10	#10	125 FT.	188 FT.	250 FT.	A
		#8	#8	192 FT	289 FT.	385 FT.	A
		#6	#6	306 FT.	460 FT.	613 FT.	A
< 1.26	20	#12	#12	86 FT.	129 FT.	172 FT.	
		#10	#10	143 FT.	215 FT.	286 FT.	
		#8	#8	226 FT	339 FT.	440 FT.	
< 1.08	20	#12	#12	100 FT.	150 FT.	200 FT.	
		#10	#10	167 FT.	250 FT.	334 FT.	
		#8	#8	256 FT	385 FT.	514 FT.	
< 0.9	20	#12	#12	120 FT.	180 FT.	240 FT.	
		#10	#10	200 FT.	300 FT.	401 FT.	
< 0.72	20	#12	#12	150 FT.	225 FT.	300 FT.	
		#10	#10	250 FT.	376 FT.	501 FT.	

1. CONTRACTOR SHALL REFER TO THIS TABLE PRIOR TO START OF BRANCH CIRCUIT ROUGH-IN.
2. CONTRACTOR SHALL USE THE APPROPRIATE WIRE SIZE IN CONJUNCTION WITH THE LENGTH OF THE PROPOSED FIELD VERIFIED ROUTING OF BRANCH CIRCUIT WIRING (INCLUDING VERTICAL & LATERAL RUN, ROUTED PARALLEL / PERPENDICULAR TO THE BUILDING STRUCTURE). SEE PANEL SCHEDULE FOR THE CORRESPONDING KVA LOAD PER PHASE OF A PARTICULAR BRANCH CIRCUIT.
4. RESISTANCE VALUES ARE FOR UNCOATED COPPER WIRES IN STEEL CONDUIT, 75 DEGREE C., OPERATING AT 60 HZ.

NOTES:
A = THE VALUES IN "120V, 1PH" COLUMN ARE TO BE USED FOR GENERAL PURPOSE RECEPTACLE LOADS.

VOLTAGE DROP CALCULATION (480/277V SYSTEM)

BRANCH CIRCUIT: 3% MAX

LOAD PER PHASE (KVA)	MAXIMUM SIZE CB (A)	WIRE SIZE (AWG)	GROUND WIRE SIZE (AWG)	MAXIMUM LENGTH OF BRANCH CIRCUIT PER UTILIZATION VOLTAGE (277V, 1PH)	(480V, 1PH)	(480V, 3PH)	NOTES AND REMARKS
< 4.43	20	#12	#12	130 FT.	195 FT.	260 FT.	
		#10	#10	217 FT.	325 FT.	433 FT.	
		#8	#8	333 FT.	500 FT.	667 FT.	
< 4.0	20	#12	#12	144 FT.	216 FT.	288 FT.	
		#10	#10	240 FT.	360 FT.	480 FT.	
		#8	#8	369 FT.	554 FT.	738 FT.	
< 3.5	20	#12	#12	164 FT.	247 FT.	329 FT.	
		#10	#10	274 FT.	411 FT.	549 FT.	
		#8	#8	422 FT.	633 FT.	844 FT.	
< 2.5	20	#12	#12	230 FT.	346 FT.	461 FT.	
		#10	#10	384 FT.	576 FT.	768 FT.	
		#8	#8	590 FT.	886 FT.	1182 FT.	
< 2.0	20	#12	#12	288 FT.	432 FT.	576 FT.	
		#10	#10	480 FT.	720 FT.	960 FT.	
< 1.5	20	#12	#12	384 FT.	576 FT.	786 FT.	
		#10	#10	639 FT.	960 FT.	1280 FT.	
< 1.0	20	#12	#12	575 FT.	864 FT.	1152 FT.	
		#10	#10	959 FT.	1440 FT.	1920 FT.	

1. CONTRACTOR SHALL REFER TO THIS TABLE PRIOR TO START OF BRANCH CIRCUIT ROUGH-IN.
2. CONTRACTOR SHALL USE THE APPROPRIATE WIRE SIZE IN CONJUNCTION WITH THE LENGTH OF THE PROPOSED FIELD VERIFIED ROUTING OF BRANCH CIRCUIT WIRING (INCLUDING VERTICAL & LATERAL RUN, ROUTED PARALLEL / PERPENDICULAR TO THE BUILDING STRUCTURE). SEE PANEL SCHEDULE FOR THE CORRESPONDING KVA LOAD PER PHASE OF A PARTICULAR BRANCH CIRCUIT.
4. RESISTANCE VALUES ARE FOR UNCOATED COPPER WIRES IN STEEL CONDUIT, 75 DEGREE C., OPERATING AT 60 HZ.

NOTES:

ELECTRICAL ONE LINE DIAGRAM | SCALE NTS | 4

VOLTAGE DROP TABLE | SCALE NTS | 3

(E) PANEL 'H'

VOLTAGE: 277/480 | WIRE: 4 | MOUNTING: RECESSED | NOTES:
BUS RATING: 225A | PHASE: 3 | AIC RATING: 42,000 (2)
MAIN REQUIREMENT: (N) 200A MAIN (2) | TYPE: NEMA 1 | CONDITION: EXISTING

CKT#	NOTES	LOAD	CB P	CB T	LOAD DESCRIPTION	LOAD KVA	PHASE	LOAD KVA	LOAD DESCRIPTION	CB P	CB T	LOAD	NOTES	CKT#
1	E		1	20	SPARE		A		SPARE	1	20		E	2
3	E		1	20	SPARE		B		SPARE	1	20		E	4
5	E		1	20	SPARE		C		SPARE	1	20		E	6
7	E		1	20	SPARE		A		SPARE	1	20		E	8
9	E		1	20	SPARE		B		SPARE	1	20		E	10
11	E		1	20	SPARE		C		SPARE	1	20		E	12
13	E		1	20	SPARE		A		SPARE	1	20		E	14
15	E		1	20	SPARE		B		SPARE	1	20		E	16
17	E		1	20	SPARE		C		SPARE	1	20		E	18
19							A		SPARE	1	20		E	20
21	E		3	20	SPARE		B		SPARE	1	20		E	22
23							C		SPARE	1	20		E	24
25		M				7.21	A							26
27	N	M	3	30	RTU-1	7.21	B		SPARE	3	20		E	28
29		M				7.21	C							30
31		M				7.21	A							32
33	N	M	3	30	RTU-2	7.21	B		SPARE	3	20		E	34
35		M				7.21	C							36
37		ML				12.19	A	10.37				D		38
39	N	ML	3	45	RTU-3	12.19	B	10.21	45 KVA TRANSFORMER	3	60	D	E	40
41		ML				12.19	C	10.82				D		42

CONNECTED LOAD:
PHASE A 36.97 KVA
PHASE B 36.82 KVA
PHASE C 37.43 KVA
TOTAL 111.22 KVA

DEMAND LOAD CALCULATION

DEMAND LOAD	SUBTOTAL	NEC DEMAND FACTOR	
CONTINUOUS LOAD (C)	0.00	125%	0.00
DEDICATED LOAD (D)	31.40	100%	31.40
GENERAL RECEPTACLE (G)	0.00	100% of 1st 10kVA & 50% of remaining	0.00
KITCHEN EQUIPMENT (K)	0.00	65%	0.00
LARGEST MOTOR LOAD (M)	43.23	125% of largest motor load + 100% remaining	86.96
		TOTAL DEMAND KVA	120.36
		AMPS @ 277/480, 3 PHASE, 4WIRE:	144.77

NOTES:
E - EXISTING BREAKER TO REMAIN
N - PROVIDE NEW BREAKER OF SAME MANUFACTURER AND AIC RATING AS EXISTING BREAKERS

(E) PANEL 'A'

VOLTAGE: 277/480 | WIRE: 4 | MOUNTING: RECESSED | NOTES:
BUS RATING: 225A | PHASE: 3 | AIC RATING: 42,000 (2)
MAIN REQUIREMENT: (N) 200A MAIN (2) | TYPE: NEMA 1 | CONDITION: EXISTING

CKT#	NOTES	LOAD	CB P	CB T	LOAD DESCRIPTION	LOAD KVA	PHASE	LOAD KVA	LOAD DESCRIPTION	CB P	CB T	LOAD	NOTES	CKT#
1	E		1	20	SPARE		A	2.00	INSTANT HOT	1	20	D	E	2
3	E		1	20	SPARE		B		SPARE	1	20		E	4
5	E		1	20	SPARE		C		SPARE	1	20		E	6
7	E		1	20	SPARE		A		SPARE	1	20		E	8
9	E		1	30	SPARE		B		SPARE	1	20		E	10
11	E		1	30	SPARE		C		SPARE	1	20		E	12
13	E		1	20	SPARE		A		SPARE	1	20		E	14
15	E		1	20	SPARE		B		SPARE	1	20		E	16
17	E		1	20	SPARE		C		SPARE	1	20		E	18
19	E		1	20	SPARE		A		SPARE	1	20		E	20
21	E		1	20	SPARE		B		SPARE	1	20		E	22
23	E		1	20	SPARE		C		SPARE	1	20		E	24
25					SPACE		A		SPACE					26
27					SPACE		B		SPACE					28
29					SPACE		C		SPACE					30
31	E	ML	3	20	HP-1	3.88	A	3.88	HP-3	3	20	M	E	32
33		ML				3.88	B	3.88				M		34
35		ML				3.88	C	3.88				M		36
37	E	M	3	20	HP-2	3.88	A	6.34				D		38
39		M				3.88	B	5.98	45 KVA TRANSFORMER	3	60	D	E	40
41		M				3.88	C	6.08				D		42

CONNECTED LOAD:
PHASE A 19.98 KVA
PHASE B 17.62 KVA
PHASE C 17.72 KVA
TOTAL 55.32 KVA

DEMAND LOAD CALCULATION

DEMAND LOAD	SUBTOTAL	NEC DEMAND FACTOR	
CONTINUOUS LOAD (C)	0.00	125%	0.00
DEDICATED LOAD (D)	20.40	100%	20.40
GENERAL RECEPTACLE (G)	0.00	100% of 1st 10kVA & 50% of remaining	0.00
KITCHEN EQUIPMENT (K)	0.00	65%	0.00
LARGEST MOTOR LOAD (M)	23.28	125% of largest motor load + 100% remaining	37.83
		TOTAL DEMAND KVA	58.23
		AMPS @ 277/480, 3 PHASE, 4WIRE:	70.04

NOTES:
E - EXISTING BREAKER TO REMAIN
N - PROVIDE NEW BREAKER OF SAME MANUFACTURER AND AIC RATING AS EXISTING BREAKERS

(E) PANEL 'L'

VOLTAGE: 120/208 | WIRE: 4 | MOUNTING: RECESSED | NOTES:
BUS RATING: 225A | PHASE: 3 | AIC RATING: 10,000 (2)
MAIN REQUIREMENT: (1) (E) 150A MAIN | TYPE: NEMA 1 | CONDITION: EXISTING

CKT#	NOTES	LOAD	CB P	CB T	LOAD DESCRIPTION	LOAD KVA	PHASE	LOAD KVA	LOAD DESCRIPTION	CB P	CB T	LOAD	NOTES	CKT#
1	E	C	1	20	SALES TRACK LIGHTING	1.20	A	1.68	SALES TRACK LIGHTING	1	20	C	E	2
3	E	C	1	20	SALES TRACK LIGHTING	1.44	B	1.20	STOREFRONT SIGNAGE	1	20		E	4
5	E	C	1	20	SALES TRACK LIGHTING	1.78	C	0.18	DUCT SMOKE DETECTOR	1	20	M	E	6
7	E	C	1	20	SALES TRACK LIGHTING	1.34	A	0.03	EXHAUST FAN	1	20	M	E	8
9	E	C	1	20	SALES TRACK LIGHTING	1.46	B	1.20	STOREFRONT SIGNAGE	1	20	C	E	10
11	E	C	1	20	SALES TRACK LIGHTING	1.49	C	0.36	SUSPENDED LIGHT BOX	1	20	D	E	12
13	E	C	1	20	GENERAL SALES LIGHTING	1.35	A	0.12	HALLWAY & RESTROOM, OFFICE LIGHTING	1	20	C	E	14
15	E	C	1	20	GENERAL SALES LIGHTING	0.99	B	0.36	SUSPENDED LIGHT BOX	1	20	D	E	16
17	E	C	1	20	GENERAL SALES LIGHTING	1.22	C	1.30	STOCKROOM LIGHTING	1	20	C	E	18
19	E	D	1	20	LIGHTING CONTROL PANEL	0.20	A	1.67	STOCKROOM, FITTING RM AREA LIGHTING	1	20	C	E	20
21	E	C	1	20	RECEIVING DESK RECEP	0.36	B	0.80	CASH DESK LIGHTBOX	1	20	C	E	22
23	E	C	1	20	RECEIVING DESK RECEP	0.36	C	1.08	STOCKROOM RECEPS	1	20	G	E	24
25	E	C	1	20	RECEIVING DESK RECEP	0.18	A	1.08	STOCKROOM, RESTROOM RECEPS	1	20	G	E	26
27	E	C	1	20	RECEIVING DESK RECEP	0.36	B	0.18	STAFF AREA RECEP	1	20	G	E	28
29	E	C	1	20	RECEIVING DESK RECEP	0.36	C	0.18	STAFF AREA RECEP	1	20	G	E	30
31	E	C	1	20	CASHWRAP LIGHTING	0.35	A	0.18	STAFF AREA RECEP	1	20	G	E	32
33	E	G	1	20	SHOW WINDOW RECEPS	0.54	B	0.18	STAFF AREA U.C. FRIDGE	1	20	G	N,GFI	34
35	E	G	1	20	SHOW WINDOW RECEPS	0.54	C	0.90	LIGHT BOX	1	20	D	E	36
37	E	D	1	20	WATER HEATER	0.80	A	0.18	RECEIVING DESK DETAGGER RECEPT	1	20	D	E	38
39	E	G	1	20	SHOW WINDOW RECEPS	0.54	B	0.60	DRINKING FOUNTAIN	1	20	D	N,GFI	40
41	E	G	1	20	SHOW WINDOW RECEPS	0.36	C	0.72	ROOFTOP MAINTENANCE RECEPTS	1	20	D	E	42

CONNECTED LOAD:
PHASE A 10.37 KVA
PHASE B 10.21 KVA
PHASE C 10.82 KVA
TOTAL 31.40 KVA

DEMAND LOAD CALCULATION

DEMAND LOAD	SUBTOTAL	NEC DEMAND FACTOR	
CONTINUOUS LOAD (C)	21.01	125%	26.27
DEDICATED LOAD (D)	4.12	100%	4.12
GENERAL RECEPTACLE (G)	4.86	100% of 1st 10kVA & 50% of remaining	4.86
KITCHEN EQUIPMENT (K)	0.00	65%	0.00
LARGEST MOTOR LOAD (M)	0.21	125% of largest motor load + 100% remaining	0.21
		TOTAL DEMAND KVA	35.46
		AMPS @120/208, 3 PHASE, 4WIRE:	98.42

NOTES:
E - EXISTING BREAKER TO REMAIN
GFI - PROVIDE GFCI TYPE CIRCUIT BREAKER
N - PROVIDE NEW BREAKER OF SAME MANUFACTURER AND AIC RATING AS EXISTING BREAKERS

(E) PANEL 'B'

VOLTAGE: 120/208 | WIRE: 4 | MOUNTING: RECESSED | NOTES:
BUS RATING: 225A | PHASE: 3 | AIC RATING: 10,000 (2)
MAIN REQUIREMENT: (1) (E) 150A MAIN | TYPE: NEMA 1 | CONDITION: EXISTING

CKT#	NOTES	LOAD	CB P	CB T	LOAD DESCRIPTION	LOAD KVA	PHASE	LOAD KVA	LOAD DESCRIPTION	CB P	CB T	LOAD	NOTES	CKT#
1	N	C	1	20	PERIMETER FIXTURE RECEPS	0.54	A	0.36	FW ORDERING SCREENS	1	20	D	N	2
3	N	C	1	20	PERIMETER FIXTURE RECEPS	0.72	B		SPARE	1	20		N	4
5	N	C	1	20	PERIMETER FIXTURE RECEPS	0.72	C	0.50	EAS	1	20	D	N	6
7	N	C	1	20	PERIMETER FIXTURE RECEPS	0.90	A	0.72	CASHWRAP RECEPS	1	20	D	N	8
9	N	C	1	20	PERIMETER FIXTURE RECEPS	0.90	B	0.72	CASHWRAP RECEPS	1	20	D	N	10
11	N	C	1	20	PERIMETER FIXTURE RECEPS	0.90	C	0.72	CASHWRAP RECEPS	1	20	D	E	12
13	E	D	1	20	FLIGHT CASE SALES FIXTURE	0.54	A	0.36	CASHWRAP RECEPS	1	20	D	E	14
15	E	D	1	20	FLIGHT CASE SALES FIXTURE	0.54	B	0.36	MANAGER OFFICE RECEP	1	20	C	E	16
17	E		1	20	SPARE		C	0.36	MANAGER OFFICE RECEP	1	20	C	E	18
19	N	D	1	20	CASHWRAP DIGITAL SCREEN	0.36	A	0.36	MANAGER OFFICE RECEP	1	20	C	N	20
21	N	D	1	20	CASHWRAP DIGITAL SCREEN	0.18	B	0.36	MANAGER OFFICE RECEP	1	20	C	N	22
23	N	C	1	20	ENTRY ILLUMINATED CHANNEL LTG	0.50	C	0.36	MANAGER OFFICE RECEP	1	20	G	N	24
25	N	C	1	20	ENTRY ILLUMINATED CHANNEL LTG	0.50	A	0.36	MANAGER OFFICE RECEP	1	20	G	N	26
27	N	C	1	20	ENTRY ILLUMINATED CHANNEL LTG	0.50	B	0.36	H WALL SALES FIXTURE	1	20	G	N	28
29	N	G	1	20	H WALL SALES FIXTURE	0.54	C	0.54	H WALL SALES FIXTURE	1	20	G	N	30
31	E	G	1	20	H WALL SALES FIXTURE	0.36	A	0.80	MOVABLE CENTER WALL	1	20	C	N	32
33	E	D	1	20	FW ORDERING SCREENS	0.36	B	0.80	MOVABLE CENTER WALL	1	20	C	N	34
35	E	D	1	20	SAFE RECEP	0.18	C	0.40	MOVABLE CENTER WALL	1	20	C	N	36
37	N	D	1	20	SAFE RECEP	0.18	A							38
39	E	D	1	20	EWC	0.18	B		SPARE	3	20		E	40
41	N	D	1	20	FW ORDERING SCREENS	0.36	C							42

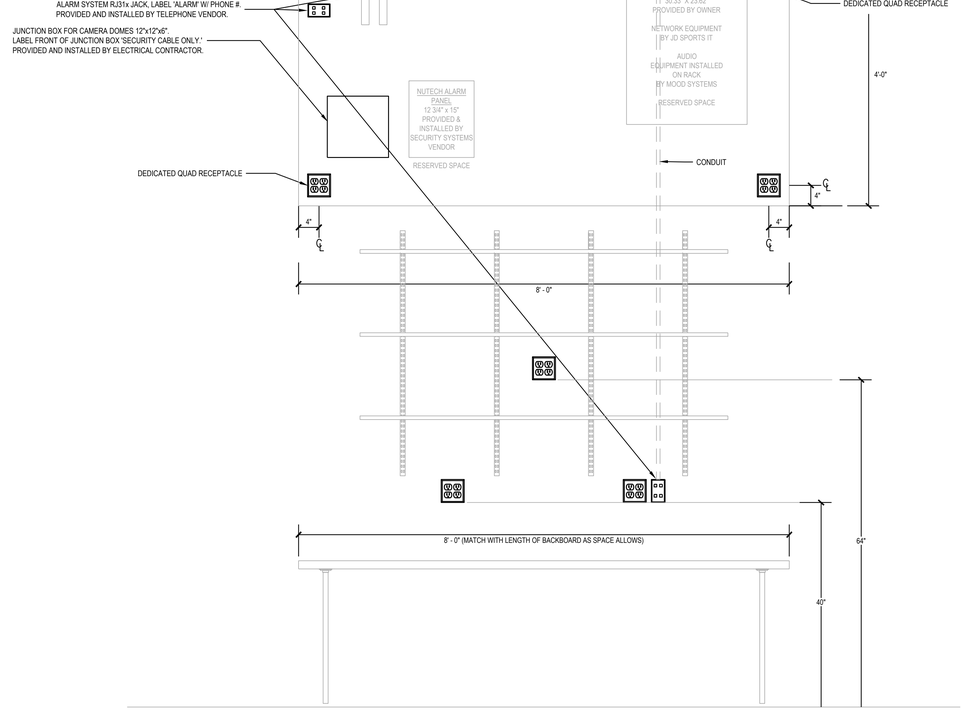
CONNECTED LOAD:
PHASE A 6.34 KVA
PHASE B 5.98 KVA
PHASE C 6.08 KVA
TOTAL 18.40 KVA

DEMAND LOAD CALCULATION

DEMAND LOAD	SUBTOTAL	NEC DEMAND FACTOR	
CONTINUOUS LOAD (C)	9.62	125%	12.03
DEDICATED LOAD (D)	6.26	100%	6.26
GENERAL RECEPTACLE (G)	2.52	100% of 1st 10kVA & 50% of remaining	2.52
KITCHEN EQUIPMENT (K)	0.00	65%	0.00
LARGEST MOTOR LOAD (M)	0.00	125% of largest motor load + 100% remaining	0.00
		TOTAL DEMAND KVA	20.81
		AMPS @120/208, 3 PHASE, 4WIRE:	57.75

NOTES:
E - EXISTING BREAKER TO REMAIN
N - PROVIDE NEW BREAKER OF SAME MANUFACTURER AND AIC RATING AS EXISTING BREAKERS

ELECTRICAL PANEL SCHEDULES | SCALE NTS | 2



GENERAL NOTES:
1. GENERAL CONTRACTOR TO PROVIDE EQUIPMENT AS NOTED.
2. ALL CONDUIT SHALL BE SURFACE MOUNTED ELECTRICAL METALLIC TUBING (EMT), UON. NO CONDUIT SHALL BE RUN ON THE MIDDLE OF THE BACKBOARD.
3. ALL CONDUIT RUNS SHALL INCLUDE NYLON BUSHINGS AT EXPOSED ENDS, WITH PULL STRINGS LABELED AT EACH END.
4. REFER TO PLAN FOR NUMBER AND LOCATION OF DEVICES. EXACT DIMENSION OF LOW VOLTAGE RACKS SHALL BE COORDINATED WITH JD SPORTS.
5. CONTRACTOR TO REFER TO SHOP DRAWINGS FROM VENDORS FOR EXACT CALL OUTS OR RUNS TO AND FROM THE A.T.S. BACKBOARD.
6. DETAIL IS TYPICAL IN NATURE. ALL LOCATIONS AND REQUIREMENTS SHALL BE COORDINATED WITH JD REPRESENTATIVE AND VENDORS PRIOR TO ROUGH-IN.
7. ALL WIRING MUST BE IN CONDUIT. ALL CONDUITS SHALL BE CONCEALED WHERE POSSIBLE.
8. FLEXIBLE CONDUIT SHALL BE MC ONLY. FLEXIBLE CONDUIT IS NOT PERMITTED TO RUN VERTICALLY WITHIN DEMISING WALLS.
9. EXPOSED CONDUIT SHALL BE INSTALLED IN STRAIGHT LINES, PARALLEL WITH OR AT RIGHT ANGLES TO THE BUILDING STRUCTURE.
10. DO NOT LOOP EXCESS FLEXIBLE CONDUIT IN CEILING SPACE. WIRE SHALL BE COPPER THHN OR THWN WITH INSULATION.
11. ALL EXISTING INSTALLATIONS NOT SCHEDULED FOR RE-USE MUST BE COMPLETELY DEMOLISHED AND PROPERLY DISPOSED OF OFFSITE. DO NOT JUST ANANDON. ALL UTILITIES MUST BE REMOVED TO THEIR POINT OF ORIGIN.

A.T.S. BACKBOARD ELEVATION (FOR REFERENCE ONLY) | SCALE NTS | 1

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REGISTERED PROFESSIONAL ENGINEER WILSON LIC No.E015418 Exp. 06/30/27 ELECTRICAL STATE OF CALIFORNIA

A Project for:

JD SPORTS #1425
LAS AMERICAS PREMIUM OUTLETS
4155 CAMINO DE LA PLAZA SPACE 0448A
SAN DIEGO, CA 92173

(1)

PORTFOLIO REFERENCE ONLY
Client:
JD SPORTS

3308 N. MITTHOEFFER ROAD
INDIANAPOLIS, IN 46235

ELECTRICAL
ONE LINE DIAGRAM
AND PANEL SCHEDULES

Sheet #:
E-401

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PLUMBING FIXTURE SCHEDULE

FIXTURE ID	DESCRIPTION	MANUFACTURER	MODEL	ROUGH-IN					REMARKS
				W	V	CW	HW	G	
HD-1	HUB DRAIN	ZURN	Z1030-G	3"	2"	1/2"	-	-	GALVANIZED CAST IRON BODY W/ MESH SCREEN

HANGERS AND SUPPORTS

MATERIALS	TYPES OF JOINTS	HORIZONTAL	VERTICAL
CAST-IRON HUBLESS	SHIELDED COUPLING	EVERY OTHER JOINT, UNLESS OVER 4 FEET THEN SUPPORT EACH JOINT	BASE AND EACH FLOOR, NOT TO EXCEED 15 FEET
COPPER & COPPER ALLOY	SOLDERED, BRAZED, THREADED, OR MECHANICAL	3/4 INCH AND SMALLER, 5 FEET 1 INCH TO 2 INCHES, 6 FEET 2-1/2 INCHES AND LARGER, 10 FEET	EACH FLOOR, NOT TO EXCEED 10 FEET
STEEL PIPE FOR GAS	THREADED UP TO 3½" WELDED 4" OR LARGER	3/4 INCH AND 1 INCH, 5 FEET 1-1/4 INCHES AND LARGER, 10 FEET	1/2 INCH, 6 FEET; 3/4 INCH AND 1 INCH, 8 FEET; 1-1/4 INCHES EVERY FLOOR LEVEL
SCHEDULE 40 PVC AND ABS DWV	SOLVENT CEMENTED	ALL SIZES, 4 FEET; ALLOW FOR EXPANSION EVERY 30 FEET	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES; PROVIDE FOR EXPANSION EVERY 30 FEET

FIRE PROTECTION / SPRINKLER NOTES

- SIMON PREMIUM OUTLETS REQUIRES ALL TENANTS TO USE ONE OF LANDLORD'S PRE-QUALIFIED SPRINKLER CONTRACTOR(S) FOR TENANT'S SPRINKLER WORK, LISTED ON SIMON.COM. TENANT MAY COMPETITIVELY BID TO ONLY THOSE SPRINKLER CONTRACTORS PRE-QUALIFIED BY LANDLORD.
- THE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL DRAWINGS, DOCUMENTATION AND FLOW CALCULATIONS TO THE LOCAL AUTHORITY HAVING JURISDICTION IN ORDER TO OBTAIN ALL PROPER PERMITS.
- SPRINKLER WORK MAY NEED TO BE REVIEWED/APPROVED BY SIMON'S INSURER, GLOBAL RISK CONSULTANTS. PLEASE REVIEW ALL RULES AND REGULATIONS ON SIMON.COM FOR PERTINENT INFORMATION.
- SPRINKLER SYSTEM SHALL BE FULLY CHARGED AND OPERATIONAL WHENEVER CONTRACTOR IS NOT ON SITE.
- TENANT GENERAL CONTRACTOR MUST MEET WITH THE PROPERTY MANAGEMENT OFFICE TO FIND OUT THE PROCESS AND FEES ASSOCIATED WITH SPRINKLER DRAIN DOWNS DURING CONSTRUCTION.
- IF LOCAL FIRE DEPARTMENT AND/OR AHJ DETERMINES ADDITIONAL SPRINKLER HEADS AND FIRE ALARM DEVICES WILL BE REQUIRED BASED ON TENANT IMPROVEMENTS, IT IS THE TENANT'S RESPONSIBILITY TO HIRE THE LANDLORD REQUIRED FIRE ALARM & FIRE SPRINKLER CONTRACTOR FOR THIS WORK. TENANT IS RESPONSIBLE FOR ANY CODE REQUIRED CHANGES OR UPGRADES TO EXISTING CONDITIONS. EXISTING BUILDING MONITORING SYSTEM PULL STATIONS AND HORN/STROBES MUST BE KEPT CLEAR OF ALL OBSTRUCTIONS. TENANT OR ITS GENERAL CONTRACTOR MUST VERIFY EXISTING LOCATIONS, AND MAKE ANY APPLICABLE CHANGES PER THE LOCAL JURISDICTION.
- ALL ADDITIONS, EXTENSIONS OR MODIFICATIONS SHALL BE APPROVED BY LANDLORD PRIOR TO INSTALLATION. ALL FIRE ALARM RELATED WORK SHALL COMPLY WITH ALL APPLICABLE CODES AND SHALL BE INSTALLED BY LICENSED, CERTIFIED CONTRACTORS ONLY. ALL CONNECTIONS TO THE LANDLORD'S BASE BUILDING FIRE ALARM SYSTEM SHALL BE COORDINATED WITH THE PROPERTY MANAGEMENT TEAM.
- ALL BACKGROUND MUSIC/PAGING SYSTEMS SHALL BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM TO ALLOW FOR SHUTDOWN OF THE SYSTEM IN AN EMERGENCY SITUATION. CONNECT TO THE EXISTING BUILDING SHUTDOWN RELAY IF ALREADY PROVIDED.
- FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING ALL PROGRAMMING OF ADDRESSABLE DEVICES, SYSTEMS, ETC. OF THE NEWLY INSTALLED FIRE ALARM DEVICES TO SATISFY THE REQUIREMENTS OF THE LOCAL AHJ.
- FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL DRAWINGS, DOCUMENTATION, BATTERY CALCULATIONS, ETC. TO THE LOCAL AHJ TO OBTAIN ALL NECESSARY PERMITS.
- ALL LANDLORD EQUIPMENT, COMPONENT, AND / OR SERVICES FEEDING OTHER TENANT(S) THAT ARE EXISTING IN THE SPACE SHALL REMAIN VISIBLE AND ACCESSIBLE TO THE LANDLORD. TENANT SHALL INSTALL ACCESS PANELS AS REQUIRED TO MAINTAIN ACCESS AND SHALL BE LABELED TO PROPERLY IDENTIFY SYSTEMS. TENANT SHALL COORDINATE LOCATION WITH OPERATIONS DIRECTOR.
- ALL PENETRATIONS TO ROOF MUST BE APPROVED BY LANDLORD. ALL RELATED ROOF WORK MUST BE DONE BY PROPERTY'S DESIGNATED ROOFING CONTRACTOR, AT TENANT'S EXPENSE. COORDINATE ALL WORK WITH PROPERTY MANAGEMENT ON SITE.

LANDLORD NOTES

- ANY CHANGES AND/ OR UPGRADES TO TENANT'S EXISTING PLUMBING SYSTEMS SHALL COMPLY WITH ALL CODES AND MALL CRITERIA.
- ALL MAIN WATER LINES SHALL BE COPPER – PVC IS NOT PERMITTED. THERE SHALL BE NO PIPING JOINTS OR FITTINGS INSTALLED IN WATER PIPING BELOW THE FLOOR SLAB. PEX IS AN ALTERNATIVE, IF ALLOWABLE AND COMPLIANT WITH LOCAL CODE.
- ALL DRAIN, WASTE AND VENT PIPING AND FITTINGS ABOVE GRADE MUST BE CAST IRON PIPE. (PVC IS ACCEPTABLE IN OUR NEW CONSTRUCTION AS LONG AS IT IS NOT INSTALLED IN A RETURN AIR PLENUM.)
- PLUMBING IS NOT PERMITTED IN ANY DEMISING PARTITIONS. FUR OUT THE WALL AS NECESSARY.
- EXHAUST AND PLUMBING VENTS SHALL BE LOCATED A MINIMUM OF 10'-0" AWAY FROM ANY OUTSIDE AIR INTAKE, AND 5'-0" FROM ANY DEMISING WALL VERTICAL PLANE. ALL VENTS SHALL BE LOCATED OUTSIDE OF ANY SNOW DRIFT ZONES AS SPECIFIED ON THE CENTER'S DOCUMENTATION.
- ALL PENETRATIONS TO ROOF MUST BE APPROVED BY LANDLORD. ALL RELATED ROOF WORK MUST BE DONE BY MALL'S DESIGNATED ROOFING CONTRACTOR, AT TENANT'S EXPENSE. COORDINATE ALL WORK WITH PROPERTY MANAGEMENT ON SITE.
- ANY UNUSED PLUMBING EQUIPMENT, PIPING, ETC., WITHIN OR SERVING THE PREMISES MUST BE COMPLETELY REMOVED TO POINT OF ORIGIN. DO NOT ABANDON IN PLACE. ALL PENETRATIONS THROUGH THE ROOF SHALL BE PATCHED AND REPAIRED BY APPROVED ROOFING CONTRACTOR APPROVED BY PROPERTY MANAGEMENT.
- IF NOT ALREADY EXISTING, INSTALL A SHUT OFF VALVE ON DOMESTIC WATER LINE INSIDE SPACE. EXISTING SHUT OFF VALVE TO THE SPACE SHALL SERVE AS THE POINT OF SERVICE TO THE TENANT SPACE.
- ALL NEW PLUMBING (DOMESTIC WATER AND DRAIN WASTE VENT "DWV" PIPING) SHALL BE INSULATED WHERE EXPOSED OR IN PLENUM SPACES.
- TENANT IS REQUIRED TO INSTALL A WATERPROOF MEMBRANE IN ALL WET AREAS OF THE SPACE. TENANT SHALL USE A 30 MIL POLYETHYLENE CLEAVAGE MEMBRANE (EQUAL TO NOBLESEAL TS) INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND ANSI A108. MEMBRANE MUST BE EXTENDED UP THE WALL A MINIMUM OF 6" OR EQUAL TO THE HEIGHT OF THE FLOOR BASE.
- TENANT'S GENERAL CONTRACTOR SHALL ADVISE THE PROPERTY MANAGEMENT TEAM PRIOR TO ANY SLAB MODIFICATIONS OR REMOVAL. TENANT GC SHALL VERIFY THAT WORK SHALL NOT CONFLICT WITH ANY EXISTING STRUCTURAL, UTILITY, OR OTHER UNDER-SLAB CONDITION. (NONDESTRUCTIVE VERIFICATION MAYBE REQUIRED.) ANY DAMAGE OR DOWNTIME CAUSED BY TENANT'S WORK SHALL BE REPAIRED AND REIMBURSED AT TENANT'S EXPENSE.
- VAPOR BARRIER AND DOWELS MUST BE REVIEWED AND APPROVED BY THE PROPERTY'S OPERATION DIRECTOR PRIOR TO TRENCH CONCRETE BACK FILL. WHERE THE SLAB IS SAW-CUT AND REMOVED FOR TRENCHING, LANDLORD REQUIRES TENANT'S CONTRACTOR TO INSTALL APPROPRIATE MOISTURE BARRIER (STEGO 15 MIL THICK). CONFIRM WORK WITH CENTER OPERATIONS DIRECTOR BEFORE YOU BACKFILL.

PLEASE NOTE:
SOME TENANT SUITES HAVE FURRED OUT COLUMNS WITH ACCESS PANELS TO AN EXISTING CLEAN OUT OR EXPOSED ROOF DRAIN. TENANT WILL BE REQUIRED TO ALWAYS KEEP THIS ACCESS PANEL AREA CLEAR OF OBSTRUCTIONS. REFER TO PLUMBING DRAWINGS FOR PIPE LOCATIONS. EXISTING CONDUITS, EXPOSED LOW VOLTAGE WIRING, WATER PIPES, DRAIN LINES, ETC. MAY BE INSTALLED EITHER ABOVE THE EXISTING CEILING, INSIDE THE ORIGINAL CONCRETE SLAB OR JUST BELOW THE SLAB. LANDLORD'S AS BUILT DRAWINGS MAY NOT ACCURATELY REFLECT THESE INSTALLATIONS. IT IS THE TENANT AND ITS CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF ANY PIPE OR CONDUIT UNDER THE SLAB BY
WHATEVER MEANS THE CONTRACTOR DEEMS APPROPRIATE PRIOR TO CUTTING THE SLAB. LIKEWISE, IDENTIFY ALL WIRING, CONDUITS, PIPING OR OTHER ITEMS IN THE ABOVE CEILING SPACE PRIOR TO REMOVING IT. ANY REPAIRS OR DAMAGES RESULTING FROM THE TENANT CONTRACTOR'S WORK WILL BE THAT CONTRACTOR'S RESPONSIBILITY TO REPAIR TO THE LANDLORD'S SATISFACTION.

LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	CW	COLD WATER PIPING
	HW	HOT WATER PIPING
	HWR	HOT WATER RECIRCULATION PIPING
	SS	SOIL OR WASTE PIPING BELOW GRADE
SS	SS	SOIL OR WASTE PIPING ABOVE GRADE
	V	VENT PIPING
CD	CD	CONDENSATE DRAIN PIPING
D	ID	INDIRECT DRAIN PIPING
	WHA	WATER HAMMER ARRESTOR
	P.O.C.	POINT-OF-CONNECTION
		CAPPED
		UNION
	UP	PIPE UP
	DN	PIPE DOWN
	DN	PIPE TEE DOWN
		SHUT-OFF VALVE
	CV	CHECK VALVE
	RED	REDUCER
	PUMP	
	FCO/GCO	FLOOR CLEANOUT OR GRADE CLEANOUT
	CO/WCO	WALL CLEANOUT
	BLIND PLUG	REMOVABLE PLUG FOR CONDENSATE PIPING
		GAS COCK WITH UNION
	PRV	PRESSURE REDUCING VALVE
	T&P	TEMPERATURE & PRESSURE RELIEF VALVE
	AFF	ABOVE FINISHED FLOOR
	BFF	BELOW FINISHED FLOOR
	BG	BELOW GROUND
	(E)	EXISTING
	(N)	NEW
	NTS	NOT TO SCALE
	IE	INVERT ELEVATION
	V.I.F.	VERIFY IN FIELD
	(F)	FUTURE
	FU	FIXTURE UNIT
	AHJ	AUTHORITY HAVING JURISDICTION

MATERIAL SPECIFICATIONS

SERVICES		CAST IRON NO-HUB	GALV. STEEL SCH 40	BLACK STEEL SCH 40	TYPE L COPPER	TYPE K COPPER	TYPE M COPPER	ABS DWV SCH 40	PVC DWV SCH 40 SOLID WALL	POLYETHYLENE (PE) YELLOW PIPE	REMARKS
COLD WATER	ABOVE GROUND				●						5
	BELOW GROUND					●					2
HOT WATER	ABOVE GROUND				●						4 5
	BELOW GROUND					●					4
WASTE	ABOVE GROUND	●							●		1 5
	BELOW GROUND	●							●		1 2
VENT	ABOVE GROUND	●							●		1 5
	BELOW GROUND	●							●		1 2
ROOF DRAIN / OVERFLOW	ABOVE GROUND	●							●		1 5
	BELOW GROUND	●							●		1 2
CONDENSATE DRAIN	INDOOR						●		●		4 5
	OUTDOOR						●		●		1 3

1. FIELD VERIFY IF PVC SCH 40 DWV PLASTIC IS ALLOWED BY LOCAL AHJ PRIOR TO SUBSTITUTION. PLUMBER SHALL NOT INSTALL PLASTIC PIPING WITHOUT PRIOR APPROVAL FROM THE LOCAL AHJ.
2. PROTECT UNDERGROUND PIPING WITH APPROVED POLY WRAP OR PVC 10 MIL PIPE TAPE, EXCEPT FOR PLASTIC PIPING.
3. OUTDOOR PLASTIC PIPING SHALL BE PROPERLY WRAP WITH APPROVED 10 MIL TAPE OR COAT WITH APPROVED UV-RESISTANT MATERIALS TO PROTECT THE PIPING FROM UV LIGHT DEGRADATION.
4. INSULATED.
5. FOR PLENUM RETURN ONLY, ALL PIPING WITHIN PLENUM TO BE FIRE RATED APPROVED INSULATION.

GENERAL NOTES

1. PLUMBING CONTRACT DRAWINGS ARE IN PART DIAGRAMMATIC, COVERING THE SCOPE OF WORK AND GENERAL ARRANGEMENT OF THE EQUIPMENT, PIPING, ETC., AND THE APPROXIMATE SIZE OF EQUIPMENT AND MATERIALS. THE CONTRACTOR SHALL FOLLOW THESE DRAWINGS IN LAYING OUT THE PLUMBING WORK. PLUMBING CONTRACTOR SHALL CONSULT GENERAL, SPRINKLER, HEATING/VENTILATING/AIR CONDITIONING CONTRACT AND ELECTRICAL DRAWINGS TO BE FAMILIARIZED WITH THE WORK AND TO VERIFY THE SPACES IN WHICH THE PLUMBING WORK WILL BE INSTALLED.
2. BECAUSE OF THE NATURE AND SCALE OF THE DRAWINGS, CERTAIN BASIC PLUMBING ITEMS SUCH AS UNIONS, FITTINGS, ELBOWS, ETC., MAY NOT BE SHOWN. WHERE SUCH ITEMS ARE REQUIRED BY OTHER SECTIONS OF THE SPECIFICATIONS, OR WHERE THEY ARE REQUIRED BY THE NATURE OF THE WORK OR BY CODES AND REGULATIONS, THEY SHALL BE FURNISHED AND INSTALLED AT NO ADDITIONAL COST TO THE OWNER. THE DRAWINGS INDICATE GENERAL LOCATIONS OF PIPING, EQUIPMENT, DUCTWORK AND SIMILAR. THE EXACT LOCATION TO BE DETERMINED BY THE CONTRACTOR TO BEST FIT THE LAYOUT OF THE JOB.
3. ALL EQUIPMENT SHALL BE TIGHTLY COVERED AND PROTECTED AGAINST DIRT, WATER, AND CHEMICAL OR MECHANICAL INJURY OR THEFT. PLUMBING FIXTURES SHALL BE COVERED WITH HEAVY PAPER COVERINGS AFTER INSTALLATION AND SHALL BE THOROUGHLY CLEANED AFTER COMPLETION OF THE PROJECT.
4. ALL MATERIALS SUCH AS VALVES, FITTINGS, PIPING, EQUIPMENT, PUMPS, COILS, ETC., SHALL BE PROPERLY PROTECTED, AND ALL PIPING OPENINGS SHALL BE TEMPORARILY CLOSED BY THE CONTRACTOR FOR THE WORK UNDER HIS CHARGE, ON A DAILY BASIS, AT THE END OF EACH WORKING DAY, SO AS TO PREVENT OBSTRUCTION AND DAMAGE. THE ABOVE REQUIREMENTS ARE MANDATORY.
5. THE CONTRACTOR SHALL SEE THAT ALL MATERIALS, INSTALLATION AND WORKMANSHIP IS PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ALL APPLICABLE CODES, LAWS, OR ORDINANCES OF THE STATE OF CALIFORNIA, AND SAN DIEGO COUNTY AND LOCAL CODES, CITY OF SAN YSIDRO LAWS OR ORDINANCES, INCLUDING ALL STATE OR LOCAL BOARD OF HEALTH, FEDERAL AND STATE ENVIRONMENTAL PROTECTION REGULATIONS, STATE ENERGY CODES AND UTILITY REGULATORY AGENCIES.
6. ALL WORK SHALL BE FURTHER PERFORMED IN ACCORDANCE WITH THE NATIONAL BOARD OF FIRE UNDERWRITERS, THE PLUMBING AND BUILDING CODES, NATIONAL ELECTRICAL CODE, THE OCCUPATIONAL SAFETY AND HEALTH ACT, THE AMERICAN GAS ASSOCIATION, AND ALL SUCH OTHER SPECIFIC CODES AS MAY BE REFERRED TO IN THE INDIVIDUAL SECTIONS OF THE SPECIFICATIONS.
7. PIPE SIZES SHOWN ON THE DRAWINGS ARE THE MINIMUM SIZES ALLOWED REGARDLESS OF THE CODE MINIMUM, EXCEPT WHEN THE CODE MINIMUM SIZE IS LARGER THAN THAT SHOWN.
8. THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONTRACT PRINTS ON THE CONSTRUCTION SITE AT ALL TIMES, ON WHICH HE/SHE SHALL ACCURATELY RECORD THE ACTUAL INSTALLATION OF ALL PLUMBING WORK. AS WORK PROGRESSES, MARK CHANGES MADE WHETHER RESULTING FROM JOB CONDITIONS, ADDENDA, FORMAL CHANGE ORDERS OR OTHER INSTRUCTIONS ISSUED BY THE ENGINEER.
9. THE PLUMBING CONTRACTOR SHALL INDICATE PROGRESS BY COLORING IN VARIOUS PIPES, FIXTURES, AND ASSOCIATED APPURTENANCES EXACTLY AS THEY ARE ERECTED AND INSTALLED.
10. MARK ALL PIPE SIZES AND LOCATIONS DURING CONSTRUCTION. ALSO, MARK LOCATIONS OF ALL VALVES AND VARIOUS EQUIPMENT, APPARATUS, AND ASSOCIATED APPURTENANCES AS ERECTED WEEKLY DURING CONSTRUCTION.
11. AT THE COMPLETION OF THE JOB THESE PRINTS, INCORPORATING CHANGES, ADDENDA AND ADDED DATA NOTED ON MARKED-UP PRINTS, INCLUDING DIMENSIONED LOCATIONS OF UNDERGROUND PIPING BEYOND LIMITS OF BUILDING, SHALL BE SUBMITTED TO THE ENGINEER FOR FINAL REVIEW AND COMMENT. THE PRINTS WILL BE RETURNED WITH APPROPRIATE COMMENTS AND RECOMMENDATIONS. THESE CORRECTED PRINTS TOGETHER WITH CORRELATED PRINTS INDICATING ALL THE REVISIONS, ADDITIONS AND DELETIONS OF WORK, SHALL FORM THE BASIS FOR PREPARING A SET OF RECORD DRAWINGS.
12. WHERE PIPING, AND OTHER PLUMBING APPURTENANCES PASS THROUGH FIRE PARTITIONS, FIRE WALLS, OR FLOORS, INSTALL A FIRE-STOP THAT PROVIDES AN EFFECTIVE BARRIER AGAINST THE SPREAD OF FIRE, SMOKE AND GASES. FIRE-STOP MATERIAL SHALL BE UL APPROVED, PACKED TIGHT AND COMPLETELY FILL CLEARANCES BETWEEN RACEWAYS AND OPENINGS. FLOOR, EXTERIOR WALL, AND ROOF SEALS SHALL ALSO BE MADE WATERTIGHT AS APPROVED BY THE ADMINISTRATIVE AUTHORITY.
13. ARRANGE AND INSTALL PIPING APPROXIMATELY AS INDICATED, STRAIGHT, PLUMB AND AS DIRECT AS POSSIBLE. FORM RIGHT ANGLES OR PARALLEL LINES WITH BUILDING WALLS. KEEP PIPES CLOSE TO WALLS, PARTITIONS AND CEILINGS. OFFSETTING ONLY WHERE NECESSARY TO FOLLOW WALLS AND AVOID INTERFERENCE WITH OTHER MECHANICAL ITEMS. LOCATE GROUPS OF PIPES PARALLEL TO EACH OTHER; SPACE THEM AT A DISTANCE TO PERMIT ACCESS FOR SERVICING VALVES.
14. GRADE DRAINAGE AT UNIFORM SLOPE OF NOT LESS THAN 1/4" PER FOOT TOWARD THE POINT OF DISPOSAL; WHEN APPROVED BY ADMINISTRATIVE AUTHORITY, PIPE SIZE 4" AND LARGER MAY HAVE A SLOPE OF NOT LESS THAN 1/8" PER FOOT.
15. WHERE CHANGES IN PIPE SIZES OCCUR, USE ONLY REDUCING FITTINGS.
16. FOR DRAINAGE PIPING CHANGES IN DIRECTION, USE LONG SWEEP WHERE POSSIBLE, OTHERWISE, SHORT SWEEP 1/4 BENDS, OR COMBINATION WYE AND 1/8 BENDS; USE SANITARY TEE BRANCHES ONLY FOR HORIZONTAL BRANCHES DISCHARGING TO STACKS.
17. INSTALL SECTIONALIZING VALVES AND ON EACH BRANCH LINE TO MULTI-FIXTURE GROUPS. LOCATE VALVES IN A READILY ACCESSIBLE LOCATION, DO NOT CONCEAL. DO NOT LOCATE VALVE SYSTEMS BELOW HORIZONTAL UNLESS INDICATED ON PLANS. LOCATE ANGLE STOP VALVES BELOW THE SINK OR WATER CLOSET.
18. PROVIDE PIPING AND FIXTURE TRAPS. CONNECT TO FIXTURES AND OTHER EQUIPMENT INDICATED OR SPECIFIED AS REQUIRING SOIL, WASTE, DRAIN AND VENT FACILITIES.
19. LAY ALL PIPING TRUE TO LINE AND GRADE, FIT ENDS TOGETHER, MATCH SO THAT SEWER OR DRAIN WILL HAVE SMOOTH AND UNIFORM INSERT. FOLLOW LOCATIONS AND ELEVATIONS AT SITE. AS THE PIPE LAYING PROGRESSES, CLEAR PIPE INTERIOR OF CEMENT, DIRT, AND OTHER FOREIGN MATERIALS. DURING WORK STOPPAGE PERIODS, PROVIDE EFFECTIVE PLUGS OR COVERS FOR OPEN ENDS OF PIPE AND DRAINS.
20. PROVIDE CLEANOUTS WHERE INDICATED AND AT INTERVALS OF 100' OR AS REQUIRED BY LOCAL PLUMBING CODE AND WHERE REQUIRED AT CHANGES OF DIRECTIONS OF SOIL AND WASTE STACKS. INSTALL CLEANOUTS SO AS TO BE ACCESSIBLE FOR EASY REMOVAL AND TO PROVIDE CLEARANCE FOR RODDING. CLEANOUTS SHALL BE THE SAME SIZE AS PIPE SERVED EXCEPT THAT NO CLEANOUT NEED BE LARGER THAN FOUR INCHES.
21. EXTEND VENT PIPES 12 INCHES ABOVE ROOF AND 10FT MINIMUM AWAY FROM ANY FRESH AIR INTAKES AND AT LEAST 24 INCHES AWAY FROM A PARAPET WALL.
22. SANITARY VENT PIPING SHALL BE GRADED SO THAT THE AIRFLOW TO THE OUTSIDE WILL BE CONTINUOUSLY UPWARD.
23. MAKE TIGHT CONNECTION BETWEEN WATER CLOSET FLANGES AND EARTHENWARE FIXTURE BY MEANS OF AN APPROVED MOLDED WAX RING OR SETTING COMPOUND AND BOLTING.
24. VENTS: PROVIDE FLASHING FOR STACKS PASSING THROUGH ROOF. MAKE WATER-TIGHT AT ROOF WITH 4LB. SHEET LEAD; EXTEND INTO ROOFING FELTS AT LEAST 24" FROM PIPES. EXTEND LEAD COLLAR UP AROUND OUTSIDE AND TURN DOWN INSIDE VENTS AT THE TOP. DO NOT LOCATE VENT THROUGH ROOF LESS THAN 24 INCHES FROM A PARAPET WALL.
25. ALL PLUMBING FIXTURES AND PIPING ARE TO BE LISTED BY AN APPROVED LISTING AND TESTING AGENCY AND PROPERLY LABELED.
26. COORDINATE ALL LOCATIONS, SIZES, AND ELEVATIONS OF ALL SLEEVES THROUGH WALLS, BEAMS, SLABS AND FOOTING WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS. ALL PIPES SLEEVING THROUGH FOOTINGS SHALL HAVE A SLEEVE DIAMETER OF TWO PIPE SIZES OVER THE PIPE PASSING THROUGH THE FOOTING. NO PIPE TO BE PLACED THROUGH FOOTING UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
27. ALL PIPES SHALL BE PROTECTED AT THE POINT THEY CROSS BUILDING EXPANSION JOINT, EITHER WITH AN EXPANSION FITTINGS OR IN ANOTHER MANNER ACCEPTABLE TO THE ENGINEER.
28. FAUCET CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS.
29. PENETRATION OF FLOOR/CEILING ASSEMBLIES AND ASSEMBLIES REQUIRED TO HAVE A FIRE-RESISTANCE RATING SHALL BE PROTECTED IN ACCORDANCE WITH THE BUILDING CODE.
30. WHERE WATER PRESSURE WITHIN A BUILDING EXCEEDS 80 PSI, AN APPROVED LEAD-FREE WATER-PRESSURE REDUCING VALVE CONFORMING TO ASSE 1003 WITH STRAINER SHALL BE INSTALLED TO REDUCE THE PRESSURE IN THE BUILDING WATER DISTRIBUTION PIPING TO 80 PSI STATIC OR LESS.
31. DISINFECTION OF POTABLE WATER SYSTEM SHALL COMPLY WITH THE LOCAL AND THE CALIFORNIA PLUMBING CODE.
32. PROPER ACCESS MUST BE PROVIDED FOR THE TESTING AND MAINTENANCE OF THE BACKFLOW PREVENTER.
33. ALL OVERHEAD PIPING SHALL MAINTAIN AT LEAST 5'-0" CLEARANCE IN FRONT OF THE HVAC SUPPLY AND RETURN OPENINGS.
34. PLASTIC PIPES ARE NOT PERMITTED TO BE INSTALLED WITHIN THE AIR PLENUM SPACE.
35. ANY UNUSED PLUMBING EQUIPMENT, PIPING, ETC., WITHIN OR SERVING THE PREMISES MUST BE COMPLETELY REMOVED TO POINT OF ORIGIN. DO NOT ABANDON IN PLACE.
36. INSTALL MAIN SHUT OFF VALVE ON DOMESTIC WATER LINE INSIDE SPACE WHERE IT IS EASILY ACCESSIBLE, OR AS NOTED ON PLANS.
37. PRIOR OF WORK, THE GENERAL CONTRACTOR AND PLUMBER SHALL PERFORM SCOPING AND THOROUGH INVESTIGATION OF EXISTING SANITARY SEWER SYSTEM TO DETERMINE THE EXACT CONDITION OF PIPING, INVERT ELEVATION AND ROUTING. THE GENERAL CONTRACTOR SHALL SUBMIT A SKETCH OR REPORT TO THE ARCHITECT AND ENGINEER.
38. NO PLUMBING PIPING SHALL BE DIRECTLY EMBEDDED IN CONCRETE OR MASONRY.

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GENERAL NOTES & FIXTURE SCHEDULE

Sheet #:
P-001

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SEISMIC RESTRAINT GUIDELINES FOR PIPING

1. ALL SEISMIC RESTRAINTS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SEISMIC RESTRAINT GUIDELINES MANUAL AND ALL CERTIFIED SUBMITTAL DATA.

2. TRANSVERSE BRACE SPACING SHALL NOT EXCEED 50 FEET UP TO 0.25g, 40 FEET UP TO 1.0g, AND 20 FEET UP TO 2.0g FOR STEEL AND COPPER PIPE WITH WELDED OR BRAZED CONNECTIONS. LONGITUDINAL SPACING SHALL NOT EXCEED 80 FEET UP TO 1.0g, AND 40 FEET UP TO 2.0g FOR STEEL AND COPPER PIPE WITH WELDED OR BRAZED CONNECTIONS.

3. STEEL AND COPPER PIPE WITH SCREWED CONNECTIONS BRACE SPACING SHALL NOT EXCEED 1/2 THE SPACING LISTED IN NOTE 2 GUIDELINES. FOR PVC, PVDF, FRP, AND OTHER SPECIALTY PIPING, BRACE SPACING SHALL NOT EXCEED 1/2 THE SPACING LISTED IN NOTE 2. ALL PIPE MUST BE CONSIDERED FULL OF WATER WHEN DETERMINING SEISMIC BRACE REQUIREMENTS UNLESS SPECIFICALLY ENGINEERED OTHERWISE.

4. TRANSVERSE RESTRAINT FOR ONE PIPE SECTION MAY ALSO ACT AS A LONGITUDINAL RESTRAINT FOR A PIPE SECTION OF THE SAME SIZE CONNECTED PERPENDICULAR TO IT IF THE RESTRAINT IS INSTALLED WITHIN 24-INCHES OF THE ELBOW OR TEE OR COMBINED STRESSES ARE WITHIN ALLOWABLE LIMITS AT LONGER DISTANCES.

5. HOLD DOWN CLAMPS MUST BE USED TO ATTACH PIPE TO ALL TRAPEZE MEMBERS BEFORE APPLYING RESTRAINTS.

6. BRANCH LINES MAY NOT BE USED TO RESTRAIN MAIN LINES.

7. PROVIDE REINFORCED CLEVIS BOLTS WHEN REQUIRED.

8. PIPING CROSSING BUILDING SEISMIC OR EXPANSION JOINTS, PASSING FROM BUILDING TO BUILDING, OR SUPPORTED FROM DIFFERENT PORTIONS OF THE BUILDING SHALL BE INSTALLED TO ALLOW DIFFERENTIAL SUPPORT DISPLACEMENTS WITHOUT DAMAGING THE PIPE, EQUIPMENT CONNECTIONS, OR SUPPORT CONNECTIONS. PIPE OFFSETS, LOOPS, ANCHORS, AND GUIDES SHALL BE INSTALLED AS REQUIRED TO PROVIDE SPECIFIED MOTION CAPABILITY AND LIMIT MOTION OF ADJACENT PIPING.

9. PROVIDE APPROPRIATELY SIZED OPENINGS IN WALLS, FLOORS, AND CEILINGS FOR ANTICIPATED SEISMIC MOVEMENT. PROVIDE FIRE SEAL SYSTEMS IN FIRE-RATED WALLS.

10. GAS PIPING LESS THAN 1" I.D. NEED NOT BE BRACED.

11. WHERE RIGIDLY SUPPORTED PIPES ARE CONNECTED TO EQUIPMENT WITH VIBRATION ISOLATION, THOSE CONNECTIONS MUST BE CAPABLE OF ACCOMMODATING SEISMIC DISPLACEMENTS. CONVERSELY, WHEN SMALLER UNSUPPORTED PIPES ARE CONNECTED TO RIGIDLY SUPPORTED EQUIPMENT, (i.e., COILS, etc.); THOSE JOINTS MUST BE CAPABLE OF ACCOMMODATING MOVEMENT OF THE PIPES.

12. RIGID PIPING SYSTEMS MAY NOT BE BRACED TO DISSIMILAR PARTS OF THE BUILDING OR TO DISSIMILAR BUILDING SYSTEMS WHICH MAY RESPOND DIFFERENTLY DURING AN EARTHQUAKE. DO NOT BRACE A SYSTEM TO TWO INDEPENDENT STRUCTURES SUCH AS CEILING AND WALL.

13. SEISMICALLY RESTRAIN ALL FUEL OIL PIPING, GAS PIPING, MEDICAL GAS PIPING, AND COMPRESSED AIR PIPING FOR FUEL OIL AND ALL GAS PIPING THAT IS 1"I.D. OR LARGER. TRANSVERSE RESTRAINTS MUST BE AT 20' MAXIMUM AND LONGITUDINAL RESTRAINTS AT 40' MAXIMUM SPACING.

14. PIPING LOCATED IN BOILER ROOMS, MECHANICAL EQUIPMENT ROOMS, AND REFRIGERATION EQUIPMENT ROOMS THAT IS 1-1/4" I.D. AND LARGER MUST BE SEISMICALLY RESTRAINED.

15. ALL OTHER PIPING 2-1/2" DIAMETER AND LARGER MUST BE SEISMICALLY RESTRAINED.

16. SEISMIC RESTRAINTS MAY NOT BE USED FOR ALL PIPING SUSPENDED BY INDIVIDUAL HANGERS 12" OR LESS AS MEASURED FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE SUPPORT WHERE THE HANGER IS ATTACHED, HOWEVER, IF THE 12" LIMIT IS EXCEEDED BY ANY HANGER IN THE RUN, SEISMIC BRACING IS REQUIRED FOR THE RUN.

17. THE 12" EXEMPTION APPLIES FOR TRAPEZE SUPPORTED SYSTEMS IF THE TOP OF EACH ITEM SUPPORTED BY THE TRAPEZE QUALIFIES.

18. WHERE THERMAL EXPANSION IS A CONSIDERATION, GUIDES AND ANCHORS MAY BE USED AS TRANSVERSE AND LONGITUDINAL RESTRAINTS PROVIDED THEY HAVE A CAPACITY EQUAL TO OR GREATER THAN THE RESTRAINT LOADS IN ADDITION TO THE LOADS INDUCED BY EXPANSION OR CONTRACTION.

19. STEEL STRUTS SHALL BE 1-5/8" WIDE IN VARYING HEIGHTS AND MIG-WELDED COMBINATIONS AS REQUIRED TO MEET LOAD CAPACITIES AND DESIGNS INDICATED. A MATERIAL HEAT CODE, PART NUMBER, AND MANUFACTURER'S NAME SHALL BE STAMPED ON ALL STRUT AND FITTINGS TO MAINTAIN TRACEABILITY TO MATERIAL TEST REPORTS.

20. SEISMIC RETRAINTS FOR PIPING SYSTEMS SHALL WITHSTAND A LATERAL FORCE EQUAL TO 50% OF THE WEIGHT OF THE PIPING SYSTEM AND ITS CONTENTS. SEISMIC BRACING SHALL CONFORM TO THE CURRENT ADOPTED EDITION OF THE CALIFORNIA BUILDING CODE AND THE ADMINISTRATIVE CODE, AND SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES FOR SEISMIC RESTRAINT, LATEST EDITION.

21. SPECIAL PIPE HANGER AND SUPPORT PROVISIONS REQUIRED FOR CONTROL OF PIPE EXPANSION, VIBRATION, AND SOUND TRANSMISSION IN CERTAIN PIPING SHALL BE DONE IN ACCORDANCE WITH GOOD SOUND ATTENUATION PRACTICE.

22. SUPPORT CHANNELS, FRAMES, BRACKETS, AND LEGS OF SPECIAL SUPPORTS SHALL BE OF UNISTRUT, SUPERSTRUT, OR ACCEPTED EQUAL, WITH CHANNELS, ATTACHING CLIPS, PIPE CLAMPS, AND OTHER REQUIRED ACCESSORIES.

23. PLASTIC PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH CODE REQUIREMENTS (REVIEW WITH JURISDICTION). SHIMS SHALL BE PROVIDED TO PREVENT PIPE SAG BETWEEN FITTINGS.

24. SPACING OF TRAPEZE HANGERS SHALL BE DETERMINED BY THE SMALLEST PIPE ON THE TRAPEZE. SIZES OF RODS FOR TRAPEZES SHALL BE GOVERNED BY THE LARGEST PIPE ON THE TRAPEZE.

25. TRAPEZE HANGERS SHALL NOT BE LIGHTER THAN 18 GAUGE AND, WHEN EXPOSED TO WEATHER, NOT LIGHTER THAN 12 GAUGE. PIPING THAT RUNS IN PARTITIONS AND IS NOT SUPPORTED FROM CEILING OR FLOOR SHALL BE SECURELY AND INDEPENDENTLY FASTENED TO THE PARTITION MEMBERS WITH CLAMPS OR BRACKETS.

26. LATERAL MOTION OF PIPING WILL NOT CAUSE DAMAGING IMPACT WITH SURROUNDING SYSTEMS (e.g. OTHER PIPE, DUCT, EQUIPMENT, SPRINKLER HEADS, etc.) OR CAUSE LOSS OF SYSTEM VERTICAL SUPPORT.

27. VERTICAL SUPPORT CONNECTIONS CANNOT DEVELOP MOMENTS (e.g. SWIVEL JOINTS, EYE BOLTS, VIBRATION ISOLATION HANGERS, etc.).

28. VERTICAL CAST IRON RISERS ATTACHED WITH SHIELD AND CLAMP ASSEMBLIES MUST BE STIFFENED AT THE CONNECTION POINTS OF ANY UNSUPPORTED SECTION OF PIPE.

29. VERTICAL RISERS IN AN OPEN SHAFT MUST BE ATTACHED TO THE SUPPORTS WITH CONNECTIONS SIZED TO ACCEPT THE HORIZONTAL SEISMIC LOADS.

30. WHERE EARTHQUAKE LOADS ARE APPLICABLE IN ACCORDANCE WITH THE BUILDING CODE, PLUMBING PIPING SUPPORTS SHALL BE DESIGNED AND INSTALLED FOR THE SEISMIC FORCES IN ACCORDANCE WITH THE BUILDING CODE.

31. HANGERS, ANCHORS AND SUPPORTS SHALL SUPPORT THE PIPING AND THE CONTENTS OF THE PIPING. HANGERS AND STRAPPING MATERIAL SHALL BE OF APPROVED MATERIAL THAT WILL NOT PROMOTE GALVANIC ACTION. HANGERS AND ANCHORS SHALL BE ATTACHED TO THE BUILDING CONSTRUCTION IN AN APPROVED MANNER.

32. RIGID SUPPORT SWAY BRACING SHALL BE PROVIDED AT CHANGES IN DIRECTION GREATER THAN 45 DEGREES FOR PIPE SIZES 4 INCHES AND LARGER.

33. ANCHORAGE SHALL BE PROVIDED TO RESTRAIN DRAINAGE PIPING FROM AXIAL MOVEMENT.

34. FOR PIPE SIZES GREATER THAN 4 INCHES, RESTRAINTS SHALL BE PROVIDED FOR DRAIN PIPES AT ALL CHANGES IN DIRECTION AND AT ALL CHANGES IN DIAMETER GREATER THAN 2 PIPE SIZES.

35. NON-STRUCTURAL COMPONENTS LOCATED WITHIN SEISMIC DESIGN CATEGORY 'B' OR LESS, SEISMIC RESTRAINT IS NOT REQUIRED.

36. NON-STRUCTURAL COMPONENTS LOCATED WITHIN SEISMIC DESIGN CATEGORY 'C' AND HAVING AN *IMPORTANCE FACTOR* EQUAL TO 1.0, SEISMIC RESTRAINT IS NOT REQUIRED.
SDC 'C' CORRESPONDS TO BUILDINGS OF OCCUPANCY GROUPS IV (HOSPITALS, POLICE STATIONS, FIRE AND RESCUE STATIONS, EMERGENCY CENTERS - SEISMIC RESTRAINTS ARE REQUIRED.

SPECIFICATIONS

1.00 - GENERAL

SECTION 15400 - PLUMBING

1.01 DESCRIPTION OF WORK

FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED FOR AND/OR REASONABLY INCIDENTAL TO THE COMPLETION OF THE FOLLOWING WORK.

A. SANITARY WASTE AND VENT PIPING SYSTEM INCLUDING CONNECTIONS TO BUILDING SEWER AS SHOWN.

B. DOMESTIC HOT AND COLD WATER SYSTEMS INCLUDING WATER HEATER, AND RELATED ACCESSORIES AND CONTROLS. CONNECTION TO BUILDING WATER AS SHOWN.

C. PLUMBING FIXTURES, TRIM AND ACCESSORIES INCLUDING INSTALLATION AND SUPPORT.

D. FLASHING AND SEALING OF ROOF AND EXTERIOR WALL PENETRATIONS FOR WATER TIGHTNESS.

E. CAULKING AND SEALING OF FLOOR AND WALL PENETRATIONS AND FORMED SHAFT PENETRATIONS.

F. BACKING FOR SECURING FIXTURES, TRIM AND PIPING.

G. ACCESS DOORS WHERE SHOWN OR REQUIRED BY CODE.

H. HANGERS, SUPPORTS, AND GUIDES.

I. CLEANUP OF DEBRIS AND FINAL CLEANUP OF DRAINS, FIXTURES AND EQUIPMENT.

J. RECORD DRAWINGS AND OPERATING MANUALS.

K. LICENSE, PERMITS AND ASSOCIATED FEES.

L. CUTTING, DRILLING AND PATCHING FOR ALL SURFACES IN RELATION TO PLUMBING WORK.

M. CONDENSATE DRAINS FROM HVAC EQUIPMENT, AND GAS PIPING

1.02 RELATED WORK INCLUDED UNDER OTHER SECTIONS

A. HVAC AND ELECTRICAL WORK. 15500 AND 16000
B. FIRE PROTECTION WORK 153000 (IF APPLICABLE)

1.03 EXAMINATION OF SITE

A. VISIT SITE BEFORE SUBMITTING BID AND CHECK LOCATION OF ALL EXISTING CONDITIONS WHICH WILL AFFECT THIS WORK. VERIFY DIMENSIONS AND LOCATIONS SHOWN ON DRAWINGS AND COVER ALL COSTS. CONTRACTOR SHALL ASSUME REASONABLE VARIATIONS OR MINOR OMISSIONS AND SHALL COMPLETE PROPOSED WORK WITHOUT ADDITIONAL COST. FAILURE TO VISIT SITE WILL NOT LESSEN RESPONSIBILITY OR ENTITLE ADDITIONAL COMPENSATION FOR WORK NOT INCLUDED IN PROPOSAL.

B. VISIT SITE OF THE WORK, COMPARE IT WITH THE DRAWINGS AND SPECIFICATIONS AS TO THE CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED, ASCERTAIN AND CHECK ALL CONDITIONS AND ELEVATIONS AND TAKE ALL MEASUREMENTS WHICH MAY AFFECT THE WORK. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE FOR ANY EXTRA EXPENSE OR CLAIMS DUE TO FAILURE OR NEGLECT UNDER THIS REQUIREMENT TO MAKE SUCH EXAMINATION, INCLUDING EXAMINATION OF RESTRICTED WORKING CONDITIONS OR SUCH OTHER DIFFICULTIES VISUALLY OBSERVED DURING SITE VISIT. CONTRACTOR IS RESPONSIBLE FOR BECOMING COMPLETELY FAMILIAR WITH THE ARCHITECTURAL AND STRUCTURAL CONDITIONS AND LIMITATIONS WHICH WILL EXIST IN THE BUILDING AND TO PROVIDE ALL LABOR, TOOLS AND MATERIALS REQUIRED TO PRODUCE A COMPLETELY CONCEALED INSTALLATION AS INDICATED ON THE PLANS, SPECIFICATIONS, AND REQUIRED BY THE CODE.

C. A REDUCTION OF PIPE AREA THAT OFFERS AN OBSTRUCTION TO FLOW THROUGH THE DRAIN SHALL BE PROHIBITED.

1.04 DRAWINGS

THE ACCOMPANYING DRAWINGS SHALL BE CONSIDERED PART OF THESE SPECIFICATIONS. WORK AND MATERIALS SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS AND VICE VERSA SHALL BE EXECUTED AS IF SPECIFICALLY MENTIONED OR SHOWN IN BOTH. THE DRAWINGS SHALL BE CONSIDERED AS SCHEMATIC IN NATURE AND MINOR MODIFICATIONS OF THE WORK TO COMPLY WITH THE STRUCTURE AS FOUND SHALL BE MADE.

1.05 RULES AND REGULATIONS

A. ALL WORK AND MATERIAL SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE STATE FIRE MARSHAL AND OTHER APPLICABLE STATE AND LOCAL RULES AND REGULATIONS. NOTHING IN THESE DRAWINGS OR SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

B. FURNISH WITHOUT ANY EXTRA CHARGE ANY ADDITIONAL MATERIAL AND LABOR WHEN REQUIRED TO COMPLY WITH THESE LAWS, ORDINANCES AND CODES REGARDLESS OF WHETHER SHOWN OR MENTIONED IN THESE SPECIFICATIONS OF DRAWINGS.

C. ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH THE LANDLORD'S MECHELECT. DESIGN CRITERIA. ALL CONTRACTORS SHALL OBTAIN A COPY FROM THE LANDLORD'S TENANT COORDINATOR OR MALL OPERATIONS MANAGER AND BECOME FAMILIAR WITH THE REQUIREMENTS CONTAINED WITHIN PRIOR TO BIDDING THE JOB. WHERE LANDLORD'S REQUIREMENTS CONFLICT WITH CODES OR ORDINANCES THE STRICTEST INTERPRETATION SHALL APPLY.

1.06 SUBMITTALS

A. SUBMIT FOR REVIEW TO THE OWNER A "COMPLETE AND ALL-INCLUSIVE" LIST OF EQUIPMENT AND MATERIALS PROPOSED FOR USE (IN PDF), ACCOMPANIED BY MANUFACTURER'S DATA SHEETS. DATA SHALL BE FORWARDED IN A SINGLE PACKAGE WRITTEN 15 DAYS AFTER AWARD OF CONTRACT. SUBMIT SIX BLACKLINE PRINTS AND ONE REPRODUCIBLE SHOP DRAWING SHOWING PROPOSED PLUMBING INSTALLATION. INCLUDE SIZES, LOCATIONS AND OTHER REQUIRED INFORMATION TO COORDINATE INSTALLATION WITH OTHER TRADES.

B. WITHIN 5 DAYS AFTER AWARD OF CONTRACT, SUBMIT PDF OF A LETTER STATING ANY MATERIALS THAT CONTRACTOR WISHES TO SUBSTITUTE. TO THE OWNER FOR APPROVAL. INCLUDE SUCH INFORMATION AS MANUFACTURER'S NAME, TYPE OF MATERIAL, CERTIFIED RATINGS, OVERALL APPEARANCE, AND NECESSARY INFORMATION TO EXPLAIN FUNCTION AND OPERATION OF MATERIAL. ALL PROPOSED SUBSTITUTIONS SHALL BE EQUAL IN QUALITY, DESIGN, UTILITY AND APPEARANCE TO MATERIAL, EQUIPMENT OR METHOD SPECIFIED.

1.07 AS-BUILT DRAWINGS

A SET OF PLUMBING PLANS WILL BE FURNISHED TO THE CONTRACTOR ON WHICH HE SHALL INDICATE THE INSTALLATION "AS-BUILT" AS THE WORK PROGRESSES. UPON COMPLETION OF THE WORK, A SET OR REPRODUCIBLE DRAWINGS SHALL BE OBTAINED FROM THE OWNER AT COST, AND ALL CHANGES AS NOTED ON THE RECORD SET OF PRINTS SHALL BE INCORPORATED THEREON. THIS SET OF REPRODUCIBLE, ALONG WITH ONE SET OF BLUEPRINTS, SHALL BE DELIVERED TO THE OWNER UPON COMPLETION AND BEFORE FINAL ACCEPTANCE OF THE PROJECT.

1.08 GUARANTEE

THE CONTRACTOR SHALL LEAVE THE ENTIRE INSTALLATION IN COMPLETE WORKING ORDER FREE FROM ANY DEFECTIVE MATERIAL, WORKMANSHIP OR FINISH. HE SHALL GUARANTEE TO REPAIR OR REPLACE, WITHOUT CHARGE, DEFECTS DUE TO FAULTY WORKMANSHIP OR MATERIAL FOR A PERIOD OF ONE YEAR FROM THE DATE OF FILING OF THE NOTICE OF COMPLETION.

1.09 OPERATION MANUALS AND OWNER INSTRUCTIONS

A. PROVIDE COMPLETE OPERATION AND MAINTENANCE MANUALS COVERING ALL PLUMBING SYSTEMS AND EQUIPMENT THAT HAVE BEEN INSTALLED. THREE (3) COPIES OF THE MANUAL SHALL BE BOUND IN HARDBACK BINDERS.

B. PROVIDE INSTRUCTIONS TO OWNER AS TO OPERATION OF ALL EQUIPMENT. INSTRUCTION PERIOD TO COMMENCE FOR MINIMUM OF (2) HOURS AND SHALL BE SCHEDULED AT OWNER'S CONVENIENCE.

1.10 CUTTING AND PATCHING

A. THE CONTRACTOR SHALL DO ALL CUTTING, DRILLING AND PATCHING WHICH MAY BE REQUIRED FOR THE INSTALLATION OF THE WORK UNDER THIS SECTION OF THE SPECIFICATIONS.

B. PATCHING SHALL BE OF THE SAME WORKMANSHIP, MATERIAL, AND FINISH AND SHALL MATCH ACCURATELY ALL SURROUNDING CONSTRUCTION IN A MANNER SATISFACTORY TO THE OWNER. NO CUTTING OF THE STRUCTURE SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE OWNER.

2.00 - MATERIALS - PIPING

BUILDING DRAIN AND VENT PIPING MATERIALS SHALL COMPLY WITH THE LOCAL AUTHORITY HAVING JURISDICTION. ALL SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AN APPROVED LISTING AGENCY.

A. INTERIOR UNDERGROUND STORM, SANITARY AND WASTE PIPING:
SERVICE WEIGHT CAST IRON NO-HUB C.I. PIPE AND FITTINGS,
COMPLYING WITH CISPI STANDARDS, OR ABS DWV SCH40 IF ALLOWED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

B. INTERIOR DOMESTIC WATER PIPING ABOVE GROUND:
3" AND SMALLER - TYPE L HARD TEMPERED COPPER WITH SOLDER END FITTINGS. 95-5 TIN AND ANTIMONY SOLDER JOINTING (LEAD-FREE).

C. DOMESTIC WATER PIPING BELOW GROUND:
TYPE K COPPER PIPE SHALL BE USED. WHEN PIPING IS INSTALLED WITHIN A BUILDING AND UNDER A CONCRETE SLAB, IT SHALL BE INSTALLED WITHOUT JOINTS. WHEN JOINTS ARE UNAVOIDABLE, THEY SHALL BE BRAZED
a. PROTECTIVE PIPE COVERING SHALL BE FACTORY OR FIELD APPLIED ACCORDINGLY TO MANUFACTURERS WRITTEN INSTRUCTIONS.
b. 2 ½" OR LARGER: PRODUCTS SHALL BE POLYKEN NO. 1027 PRIMER AND POLYKEN NO. 910 TAPE COATING, 10 MIL, MINIMUM 1" OVERLAP REQUIRED.
c. 2" AND SMALLER: PRODUCTS SHALL BE 10 MIL PLASTIC SLEEVE PROTECTOR.

D. CONDENSATE DRAIN PIPING:
COPPER WATER TUBE ASTM B88, TYPE "M", SOLDER WITH 95-5 SOLDER, LEAD-FREE TYPE.

E. GAS PIPING: GALVANIZED STEEL, SCH 40 AND FITTINGS FOR OUTDOOR. BLACK STEEL, SCH 40 AND FITTINGS FOR INDOOR ABOVE GROUND. 3" AND SMALLER STEEL PIPES SHALL BE THREADED, 4" AND LARGER STEEL PIPES ARE TO BE WELDED. USE APPROVED POLYETHYLENE YELLOW PIPING (PE) FOR ALL OUTDOOR UNDERGROUND PIPING WITH 14 GAGE TRACER WIRE AND SHALL NOT COME IN CONTACT WITH PE PIPING. PE PIPE MUST BE JOINED BY HEAT FUSION METHOD OF CONNECTING PIPE AND FITTINGS OR APPROVED MECHANICAL FITTINGS.

F. PLASTIC PIPE, PLASTIC PIPE FITTINGS, AND COMPONENTS OTHER THAN THOSE FOR GAS SHALL COMPLY WITH NSF 14. CAST-IRON SOIL PIPE AND HUBLESS COUPLINGS SHALL BE THIRD PARTY CERTIFIED IN ACCORDANCE WITH ASTM C1277 AND CISPI 310.

2.01 PIPE FLASHING

4 LBS. LEAD WITH COUNTERFLASHING RING BY GLENCO, STONEMAN ENGINEERING OR APPROVED EQUAL. CONTRACTOR SHALL VERIFY COMPATIBILITY WITH ROOFING MATERIALS.

2.02 VALVES

A. GATE VALVES: RED & WHITE 204 OR EQUAL, 3" AND SMALLER.
B. CHECK VALVES: RED & WHITE 238 OR EQUAL, 3" AND SMALLER.
C. BALL VALVES: NIBCO 580-70 OR EQUAL, 3" AND SMALLER.

2.03 PLUMBING FIXTURES AND TRIM:

A. PLUMBING FIXTURES TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. SEE PLUMBING FIXTURE SCHEDULE.

B. ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. DUAL-FLUSH WATER CLOSETS SHALL HAVE EFFECTIVE VOLUME FLUSH NOT TO EXCEED 1.28 GPF. IT'S THE AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH.

C. WALL MOUNT URINALS SHALL NOT EXCEED 0.125 GALLONS PER FLUSH.

D. WHERE NON-WATER URINALS ARE INSTALLED, THEY SHALL HAVE A WATER DISTRIBUTION LINE ROUGH-IN TO EACH INDIVIDUAL URINAL LOCATION IN THE EVENT OF A RETROFIT.

2.04 PIPE HANGERS AND SUPPORTS

A. SUPERSTRUT, GRINNELL, OR APPROVED EQUAL.
B. INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.
C. PIPE HANGERS SHALL HAVE NON-METALLIC FELT OR ELASTOMERIC LINER OR WRAP APPLIED TO THE PIPE FOR ELECTROLYTIC PROTECTION WHERE HANGERS AND SUPPORTS ARE USED TO SUPPORT COPPER TUBING OR PIPE. THE LINER OR WRAP SHALL BE DESIGNED TO ALLOW EXPANSION OR CONTRACTION OF THE PIPING.

2.05 PIPE SLEEVES

A. SHALL BE PROVIDED TO PROTECT ALL PIPING THROUGH CONCRETE AND MASONRY WALLS. ANNULAR SPACES BETWEEN SLEEVES AND PIPES SHALL BE FILLED OR CAULKED IN AN APPROVED MANNER. ANNULAR SPACES BETWEEN SLEEVES AND PIPES IN FIRE-RESISTANCE-RATED ASSEMBLIES SHALL BE FILLED OR TIGHTLY CAULKED IN ACCORDANCE WITH THE BUILDING CODE. ALL UNDERSLAB CAST IRON PIPING SHALL BE COVERED WITH POLYETHYLENE SLEEVE (POLYWRAP) AND CONTRACTOR MUST FOLLOW MANUFACTURER'S MANUAL FOR PROPER INSTALLATION.

B. OPENINGS INTO A DRAINAGE OR VENT SYSTEM, EXCEPTING THOSE OPENINGS TO WHICH PLUMBING FIXTURES ARE PROPERLY CONNECTED OR WHICH CONSTITUTE VENT TERMINALS, SHALL BE PERMANENTLY PLUGGED OR CAPPED IN AN APPROVED MANNER, USING THE APPROPRIATE MATERIALS.

C. PIPING PASSING UNDER OR THROUGH WALLS SHALL BE PROTECTED FROM BREAKAGE. VOIDS AROUND PIPING PASSING THROUGH CONCRETE FLOORS ON THE GROUND SHALL BE SEALED. SLEEVES SHALL BE PROVIDED TO PROTECT PIPING THROUGH CONCRETE NO MASONRY WALLS, AND CONCRETE FLOORS. NO PLUMBING PIPING SHALL BE DIRECTLY EMBEDDED IN CONCRETE OR MASONRY. IN EXTERIOR WALLS, ANNULAR SPACE BETWEEN SLEEVES AND PIPES SHALL BE SEALED AND MADE WATERTIGHT.

2.06 TEMPERATURE AND PRESSURE RELIEF VALVE

TEMPERATURE & PRESSURE RELIEF VALVE SHALL DISCHARGE FULL LINE SIZE TO AN APPROVED WASTE RECEPTOR THROUGH AN AIR GAP AS INDICATED ON PLANS OR 6" MINIMUM, 12" MAXIMUM.

2.07 SCALD GUARD PROTECTION

PROVIDE AND INSTALL LAVATORY SCALD PROTECTION FOR WASTE PIPING AND HOT WATER PIPING IN COMPLIANCE WITH ASME A112.18.9 .

2.08 DOMESTIC PIPING INSULATION

A. PROVIDE AND INSTALL "INSULATION PROTECTION SHIELD" FOR PIPING WITH FOAM OR FIBERGLASS INSULATION.

B. INSULATE ALL RAINWATER PIPING WITH 1" THICK FIBERGLASS INSULATION BELOW THE DECK UP TO 25 FEET OF HORIZONTAL RUN.

C. INSULATE ALL HORIZONTAL WASTE PIPING (HUNG) WITH 1-1/2" THICK FIBERGLASS INSULATION ABOVE NOISE SENSITIVE AREAS ONLY. INSULATE ALL EXPOSED WATER PIPING AT THE TRASH ENCLOSURE.

D. INSULATE ALL DOMESTIC WATER PIPING OUTSIDE THE BUILDING OR ON ROOF WITH 1-1/2" THICK ARMSTRONG ARMAFLEX OR APPROVED EQUAL AND SECTIONS BUTTED FIRMLY TOGETHER.

E. INSULATE ALL CONDENSATE DRAIN PIPING WITH 1/2" THICK ARMSTRONG ARMAFLEX OR EQUAL, AND SECTIONS BUTTED FIRMLY TOGEETHER.

F. INSULATE ALL HOT WATER PIPING AND HOT WATER RETURN PIPING. THE INSULATION FOR HOT WATER AND RETURN PIPING SHALL HAVE A MINIMUM WALL THICKNESS OF NOT LESS THAN 1" FOR A PIPE UP TO 1" DIAMETER, 1.25" FOR 1-1/4" PIPE, 1.5" FOR 1-1/2" PIPE, 2" FOR 2" PIPE OR MORE IN DIAMETER. THE FIRST EIGHT FEET OF HOT AND COLD OUTLET PIPING, INCLUDING PIPING BETWEEN STORAGE TANK AND A HEAT TRAP, FOR A NON-RECIRCULATING STORAGE SYSTEM.

G. PROVIDE AND INSTALL SCALD GUARD PROTECTION/INSULATION UNDER SINKS WITH EXPOSED P-TRAPS AND HOT WATER SUPPLIES.

H. ALL OUTDOOR INSULATION SHALL BE PROTECTED WITH ALUMINUM JACKET.

I. ABS PIPING EXPOSED TO SUNLIGHT THAT IS PROTECTED BY WATER BASED SYNTHETIC LATEX PAINTS. PVC PIPING SHALL NOT BE EXPOSED TO DIRECT SUNLIGHT. PVC PIPING EXPOSED TO SUNLIGHT THAT IS PROTECTED BY WATER BASED SYNTHETIC LATEX PAINTS. PVC PIPING WRAPPED WITH NOT LESS THAN 0.04 INCH THICK TAPE OR OTHERWISE PROTECTED FROM UV DEGRADATION.

J. PIPING SUBJECT TO OPERATION AT TEMPERATURES THAT WILL FORM CONDENSATION ON THE EXTERIOR OF THE PIPE SHALL BE THERMALLY INSULATED.

K. PLASTIC PIPES IN PLENUM SPACES SHALL BE INSULATED WITH APPROVED FIRE BARRIER PLENUM WRAP. FIRE WRAP SHALL HAVE FLAME SPREAD RATING OF 25 OR LESS AND SMOKE DEVELOPED RATING OF 50 OR LESS IN ACCORDANCE WITH ASTM E 84.

2.09 CLEANOUT

A. ACCESSIBLE CLEANOUT SHALL BE PROVIDED AT THE BASE OF EACH WASTE STACK AND RAINWATER LEADERS. ADDITIONAL CLEANOUT SHALL BE PROVIDED IN A DRAINAGE LINE FOR EACH HORIZONTAL CHANGE OF DIRECTION EXCEEDING 135 DEGREES. CLEANOUT MUST BE PROVIDED ON A HORIZONTAL DRAIN LINE EXCEEDING 5FT OR MORE IN LENGTH SERVING SINKS OR URINALS. AN APPROVED TYPE OF 2-WAY CLEANOUT FITTING SHALL BE INSTALLED OUTSIDE OF A BUILDING AT THE LOWER END OF A BUILDING DRAIN AND EXTENDED TO GRADE. CLEANOUT SHALL HAVE A CLEARANCE OF NOT LESS THAN 24" BY 24" IN FRONT OF THE CLEANOUT. CLEANOUT SHALL BE PROVIDED FOR PRESSURE DRAINAGE SYSTEMS.

B. CONDENSATE DRAIN LINES SHALL BE CONFIGURED OR PROVIDED WITH A CLEANOUT TO PERMIT THE CLEARING OF BLOCKAGES AND FOR MAINTENANCE WITHOUT REQUIRING THE DRAIN LINE TO BE CUT.

2.10 WATER HEATER

A. PROVIDE ANCHORS AND STRAPS TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION.

B. STRAPPING SHALL BE LOCATED UPPER 1/3 AND LOWER 1/3 OF ITS VERTICAL DIMENSIONS. STRAPS SHALL BE A MINIMUM 2"X16 GAGE PROPERLY SECURED TO WALL STUDS. ELEVATE WATER HEATER AT LEAST 4" MINIMUM ABOVE THE FINISHED FLOOR WITH AN APPROVED BASE. PROVIDE A 22 GAGE WATER TIGHT DRAIN PAN, CORROSION RESISTANT, AT THE BOTTOM OF THE WATER HEATER. DRAIN PAN SHALL HAVE A 3/4" DRAIN LINE TO BE DISCHARGED INTO AN APPROVED RECEPTOR BY MEANS OF AN AIR GAP. A PROPERLY SIZED THERMAL EXPANSION TANK SHALL BE PROVIDED AT THE WATER HEATER. HOT WATER SUPPLY FOR THE LAVATORIES AND HAND SINKS SHALL NOT EXCEED 110°F TEMPERATURE.

C. HOT WATER DELIVERED FROM PUBLIC-USE LAVATORIES SHALL BE LIMITED TO A MAXIMUM TEMPERATURE OF 110 DEGREES FAHRENHEIT BY A DEVICE THAT IS IN ACCORDANCE WITH ASSE 1070 OR CSA B125.3. THE WATER HEATER THERMOSTAT SHALL NOT BE CONSIDERED A CONTROL FOR MEETING THIS PROVISION.

D. APPLIANCES LOCATED ON ROOFS OR OTHER ELEVATED LOCATIONS EXCEEDING 15 FEET IN HEIGHT SHALL BE ACCESSIBLE. INSIDE ACCESS TO THE ROOF SHALL BE PROVIDED WITH A PERMANENT LADDER.

2.11 TRENCHING

A. TRENCHES DEEPER THAN THE FOOTING OF A BUILDING OR STRUCTURE, AND PARALLELING THE SAME, SHALL BE LOCATED NOT LESS THAN 45 DEGREES FROM THE BOTTOM EXTERIOR EDGE OF THE FOOTING.

2.12 CONDENSATE CONTROL

A. WHERE AN EQUIPMENT OR APPLIANCE IS INSTALLED IN A SPACE WHERE DAMAGE IS CAPABLE OF RESULTING FROM CONDENSATE OVERFLOW, AN OVERFLOW DRAIN LINE SHALL BE PROVIDED. AN ADDITIONAL, WATERTIGHT PAN OF CORROSION-RESISTANT MATERIAL, WITH A SEPARATE LINE, INSTALLED BENEATH THE COOLING COIL, FURNACE, OR THE APPLIANCE TO CATCH THE OVERFLOW CONDENSATE DUE TO A CLOGGED PRIMARY CONDENSATE DRAIN. IN THE EVENT A DRAIN PAN IS TO BE MOUNTED LOWER THAN THE DRAIN DISCHARGE LOCATION, A WATER LEVEL DETECTING DEVICE SHALL BE PROVIDED THAT WILL SHUT OFF THE EQUIPMENT OR APPLIANCE DUE TO A CLOGGED PRIMARY CONDENSATE DRAIN.

3.00 - INSTALLATION AND EXECUTION

3.01 GENERAL

A. CAST-IRON HUBLESS WITH STAINLESS STEEL SHIELDED COUPLING SHALL BE SUPPORTED HORIZONTALLY AT EVERY OTHER J

PLUMBING DEMOLITION FLOOR PLAN | SCALE 1/4"=1'-0" | 1

GENERAL NOTES:

PLUMBING CONTRACTOR SHALL AVOID LOCATING OR MOUNTING OVERHEAD PLUMBING LINES DIRECTLY ABOVE THE ELECTRICAL PANELS OR EQUIPMENT.

PLUMBING CONTRACTOR SHALL INSTALL AND ROUTE OVERHEAD PLUMBING LINES AT LEAST 5' AWAY FROM ROOFTOP UNITS, SUPPLY, AND RETURN GRILLE/DUCT ROOF PENETRATIONS.

PLUMBER TO COORDINATE WITH OTHER TRADES PRIOR OF INSTALLATION OF PIPING ABOVE THE CEILING. PLUMBER TO REROUTE PIPING AS NEEDED TO AVOID EXISTING HVAC DUCTS AND ELECTRICAL COMPONENTS.

PLUMBING KEY NOTES: (X)

1. REMOVE EXISTING PLUMBING FIXTURE. CAP EXISTING PLUMBING SERVICE PIPES BELOW FLOOR & ABOVE CEILING. VERIFY LOCATION & CONDITION ON SITE.
2. EXISTING PLUMBING FIXTURE TO REMAIN. VERIFY LOCATION & CONDITION ON SITE.

⚠1 LANDLORD NOTES:

THE RE-USE OF ANY EXISTING CONSTRUCTION, FINISHES, EQUIPMENT, OR ELECTRICAL, PLUMBING OR HVAC SYSTEMS CURRENTLY IN THE SPACE IS CONDITIONAL UPON IT BEING APPROPRIATE FOR RE-USE. ANY EXISTING CONDITION OR EQUIPMENT TO BE RE-USED MUST BE RESTORED TO LIKE NEW CONDITIONS. THE LANDLORD MAKES NO WARRANTY ON THE RE-USE OF ANY EXISTING CONDITION IN THE SPACE.

INSPECT & TEST ALL EXISTING SANITARY SEWER LINES AND WATER SUPPLY LINES. REPAIR AND / OR REPLACE AS REQUIRED.

NOTES | SCALE - | 2

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A Project for:

JD SPORTS #1425
LAS AMERICAS PREMIUM OUTLETS

4155 CAMINO DE LA PLAZA SPACE 0448A
SAN DIEGO, CA 92173

⚠1

PORTFOLIO REFERENCE ONLY

Client:
JD SPORTS

3308 N. MITTHOEFFER ROAD
INDIANAPOLIS, IN 46235

PLUMBING
DEMOLITION FLOOR PLAN

Sheet #:
P-100

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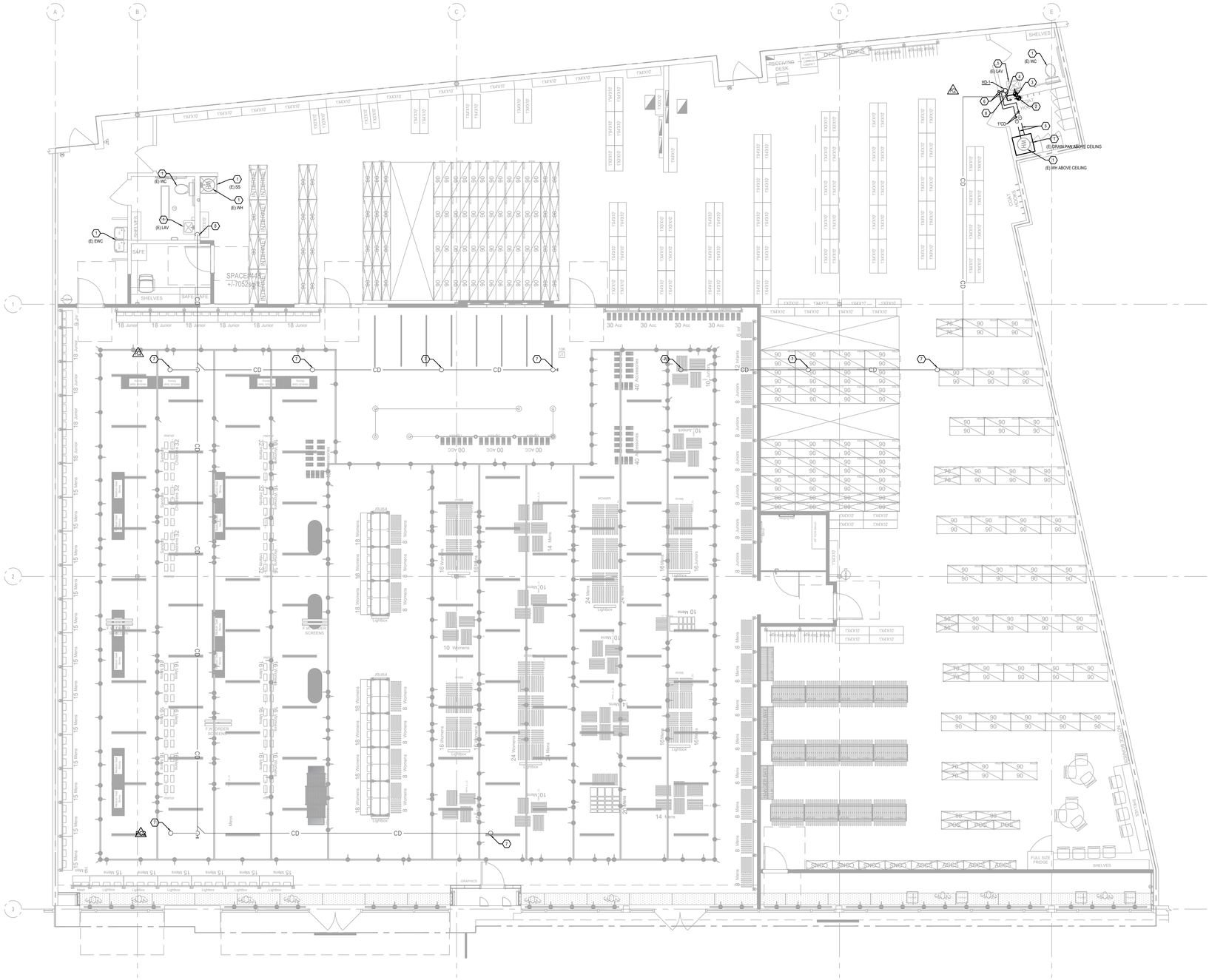

PLUMBING FLOOR PLAN

SCALE 3/16"=1'-0" | 1

GENERAL NOTES:

PLUMBING CONTRACTOR SHALL AVOID LOCATING OR MOUNTING OVERHEAD PLUMBING LINES DIRECTLY ABOVE THE ELECTRICAL PANELS OR EQUIPMENT.

PLUMBING CONTRACTOR SHALL INSTALL AND ROUTE OVERHEAD PLUMBING LINES AT LEAST 5' AWAY FROM ROOFTOP UNITS, SUPPLY, AND RETURN GRILLE/DUCT ROOF PENETRATIONS.

PLUMBER TO COORDINATE WITH OTHER TRADES PRIOR OF INSTALLATION OF PIPING ABOVE THE CEILING. PLUMBER TO REROUTE PIPING AS NEEDED TO AVOID EXISTING HVAC DUCTS AND ELECTRICAL COMPONENTS.

PLUMBING KEY NOTES: (X)

1. EXISTING PLUMBING FIXTURE TO REMAIN. VERIFY LOCATION ON SITE.
2. CONNECT NEW 2"SS TO EXISTING SS PIPE. VERIFY LOCATION ON SITE.
3. CONNECT NEW 2"V TO EXISTING V PIPE. VERIFY LOCATION ON SITE.
4. 2"SS DN & 2"VTR TO HD-1.
5. RUN 1"IW FROM WATER HEATER T&P VALVE & DRAIN PAN SEPARATELY TO HD-1 IN RESTROOM.
6. 1"IW (TWO) DN IN WALL TO TURN DN INTO HD-1.
7. EXISTING 3/4"CD DOWN FROM ROOF.
8. EXISTING CONDENSATE DRAIN DOWN AND TERMINATE INTO EXISTING LAVATORY TAILPIECE. (A)

MINIMUM CONDENSATE PIPE SIZE	
EQUIPMENT CAPACITY (TON)	CD PIPE DIAMETER (INCH)
UP TO 20	3/4
21-40	1
41-90	1-1/4
91-125	1-1/2

(A)

NOTES

SCALE - | 2

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PLUMBING
FLOOR PLAN

Sheet #:
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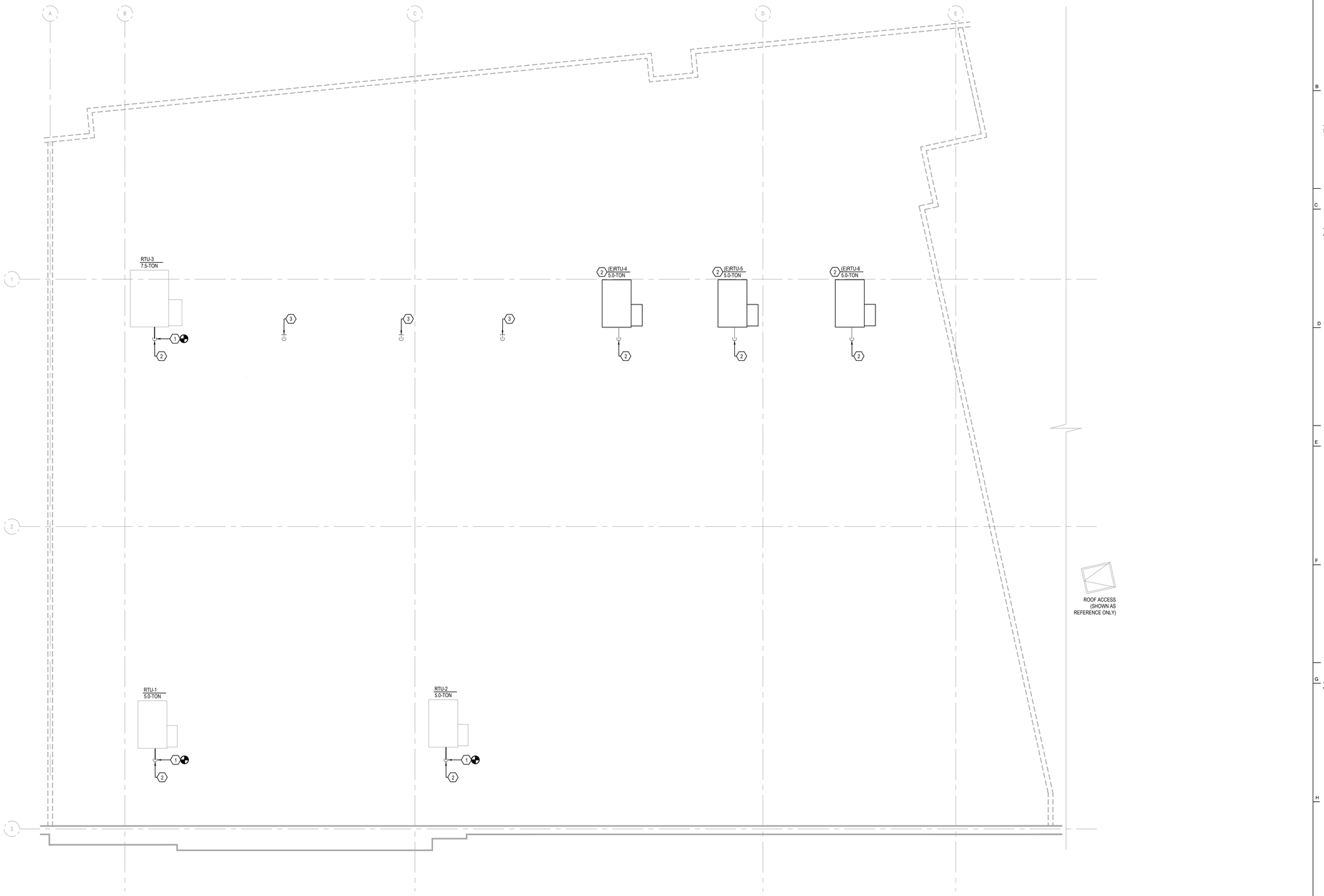

PLUMBING ROOF PLAN | SCALE 3/16"=1'-0" | 1

GENERAL NOTES:

PLUMBING CONTRACTOR SHALL AVOID LOCATING OR MOUNTING OVERHEAD PLUMBING LINES DIRECTLY ABOVE THE ELECTRICAL PANELS OR EQUIPMENT.

PLUMBING CONTRACTOR SHALL INSTALL AND ROUTE OVERHEAD PLUMBING LINES AT LEAST 5' AWAY FROM ROOFTOP UNITS, SUPPLY, AND RETURN GRILLE/DUCT ROOF PENETRATIONS.

PLUMBER TO COORDINATE WITH OTHER TRADES PRIOR OF INSTALLATION OF PIPING ABOVE THE CEILING. PLUMBER TO REROUTE PIPING AS NEEDED TO AVOID EXISTING HVAC DUCTS AND ELECTRICAL COMPONENTS.

PLUMBING KEY NOTES: (X)

1. CONNECT NEW 3/4" CONDENSATE DRAIN WITH P-TRAP FROM NEW ROOFTOP UNIT TO EXISTING. VERIFY SIZE AND LOCATION ON SITE.
2. EXISTING 3/4" CONDENSATE DRAIN DOWN THROUGH ROOF.
3. EXISTING 3/4" CONDENSATE DRAIN TO BE CAPPED.

MINIMUM CONDENSATE PIPE SIZE	
EQUIPMENT CAPACITY (TON)	CD PIPE DIAMETER (INCH)
UP TO 20	3/4
21-40	1
41-90	1-1/4
91-125	1-1/2

NOTES | SCALE - | 2

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PLUMBING
ROOF PLAN

Sheet #:
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PLUMBING
DETAILS

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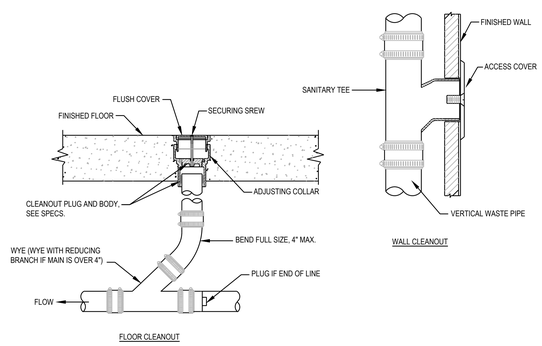


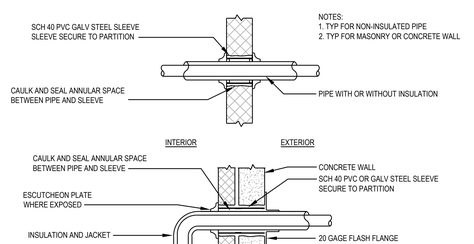
WALL CLEANOUT

FLOOR CLEANOUT

CLEANOUT DETAIL

SCALE: NTS

4



NOTES:
1. TYP FOR NON-INSULATED PIPE
2. TYP FOR MASONRY OR CONCRETE WALL

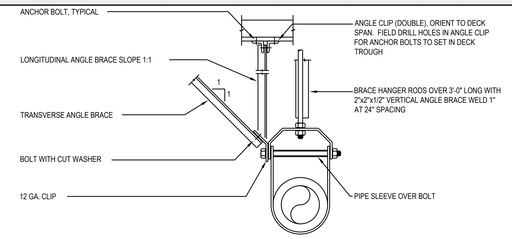
1. CUT TO TIGHTLY FIT EACH PIPE
2. SIZE AS REQUIRED SEAL WITH PAINT ALL SIDES
3. FINISH PAINT TO MATCH ADJACENT WALL AREAS
4. FASTEN TO WALL WITH FLATHEAD SCREWS

NOTE:
WHERE PIPING IS EXPOSED AT FINISHED WALLS, FLUSH MOUNT SLEEVE AND PROVIDE ESCUTCHEON CHROME PLATE.

PIPE THROUGH WALL

SCALE: NTS

2



PIPE SIZE	ANGLE BRACE *	BOLT TO ANGLE	ANGLE CLIP **	ANCHOR BOLTS,... OR INSERTS ***
2"	2"x2" 16 GA.	1/2"	3"x3"x1/2"x1'-4"	1/2
3, 4	2"x2" 16 GA.	1/2"	3"x3"x1/2"x1'-4"	1/2
5, 6	2.5"x2.5" 16 GA.	1/2"	5"x3"x1/2"x1'-4"	1/2
8	3"x3" 12 GA.	1/2"	2-5x3x1/2x1'-4"	2
10	3"x3" 12 GA.	1"	2-5x3x1/2"x1'-4"	2

* 2"x 2"x12 GA. CHANNEL MAY BE USED

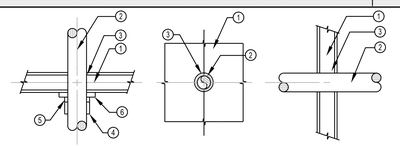
** BENT PLATE OF EQUAL THICKNESS MAY BE SUBSTITUTED FOR LONGITUDINAL ANGLE CLIP TO FACILITATE ANCHORAGE TO SLAB TROUGHS. PROVIDE EQUAL NUMBER OF ANCHOR BOLTS TO THAT SHOWN.

*** PROVIDE MINIMUM EMBEDMENT OF 1 1/2" ABOVE TOP OF METAL DECK FOR ALL ANCHOR BOLTS.

SEISMIC SUPPORT FOR PIPES

NOT TO SCALE

5



PACK SPACE BETWEEN PIPING AND PENETRATION OPENING WITH MATERIAL APPROVED BY UNDERWRITERS LABORATORIES FOR THROUGH PENETRATION FIRE STOP SYSTEMS. MATERIALS, METHODS, AND INSTALLATION SHALL BE IN ACCORDANCE WITH UL APPROVED LISTING AND SHALL BE DESIGNED TO ACT AS A FIRESTOP AS WELL AS A COLD SMOKE, NOXIOUS GAS AND WATER SEALANT. SUBMIT LISTING NUMBERS AND DETAILS FROM UL FIRE RESISTANT DIRECTORY FOR ALL SUCH SYSTEMS TO BE USED. INSULATE PIPES 3 FEET TO EITHER SIDE OF PENETRATION WITH MATERIAL SPECIFIED IN THE UL FIRE RESISTANCE DIRECTORY IF REQUIRED TO OBTAIN THE T- AND F- RATINGS.

1. WALL AND FLOOR
2. PIPE OR INSULATED PIPE
3. FIRE BARRIER - "3M PRODUCTS INC." FIRE BARRIER CAULK CP25 WB+, MOLDABLE PUTTY+, FIRE BARRIER 2001 SILICONE SEALANT
4. PIPE COVERING FOR FLAME RETARDANT POLYPROPYLENE PIPING FIRE STOPPING ASSEMBLY.
5. STEEL COLLAR FOR FRPP FIRE STOPPING ASSEMBLY.
6. PACKING MATERIAL FOR FRPP FIRE STOPPING ASSEMBLY.

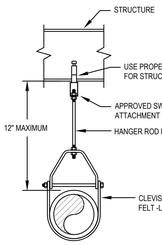
USE FOLLOWING APPLICABLE UL SYSTEMS FOR THE CONSTRUCTION TYPES LISTED.

CONSTRUCTION TYPE	THROUGH PENETRATION FIRESTOP SYSTEM NUMBERS
CONCRETE FLOORS	C-AJ-5002 (1 HR), C-AJ-5003 (1 HR)
CONCRETE OR MASONRY WALLS	C-AJ-5002 (1 HR), C-AJ-5003 (1 HR)

PIPE THROUGH FIRE RATED WALL AND FLOOR

SCALE: NTS

3



ADJUSTABLE CLEVIS HANGER

HORIZONTAL COPPER PIPING		
PIPE SIZE	ROD SIZE	MAXIMUM SPACING
½" - ¾"	⅜"	5'
1" - 1½"	⅜"	6'
2"	⅜"	8'
2½" - 4"	½"	10'

HORIZONTAL CAST IRON PIPING		
PIPE SIZE	ROD SIZE	MAXIMUM SPACING
1½" - 2"	⅜"	EVERY OTHER JOINT, UNLESS OVER 4 FT THEN SUPPORT EACH JOINT
3" - 4"	⅝"	
6" - 8"	¾"	

HORIZONTAL GAS PIPING		
PIPE SIZE	ROD SIZE	MAXIMUM SPACING
¾" - 1"	⅜"	5'
1¼" - 2"	⅜"	10'
3" - 4"	⅝"	10'
6" - 8"	¾"	10'

OVERHEAD PIPE SUPPORT

SCALE: NTS

1