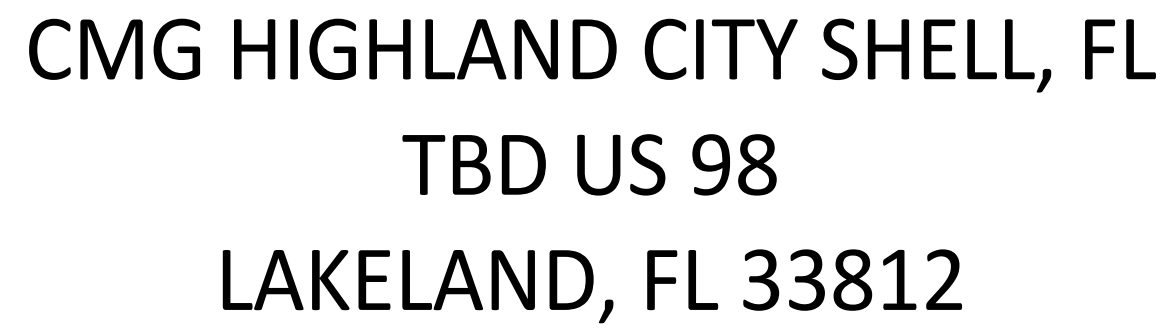


<u>ZONING</u> <u>DEPARTMENT:</u>	POLK COUNTY PLANNING AND DEVELOPMENT 330 W. CHURCH ST. BARTOW, FL 33830 CONTACT: BENJAMIN J. ZISKAL E: BENJAMINZISKAL@POLK-COUNTY.NET T: (863) 534-6084	<u>BUILDING</u> <u>DEPARTMENT:</u>	POLK COUNTY BUILDING DIVISION 330 W. CHURCH ST. BARTOW, FL 33830 CONTACT: RYAN WIGGINS E: RYANWIGGINS@POLK-COUNTY.NET T: (863) 534-6564		
<u>FIRE</u> <u>DEPARTMENT:</u>	POLK COUNTY BUILDING DIVISION 330 W. CHURCH ST. BARTOW, FL 33830 T: (863) 534-6080	<u>WATER</u> <u>UTILITY:</u>	CITY OF LAKELAND 501 EAST LEMON STREET LAKELAND, FL 33801 CONTACT: RICK POLSTON E: RICK.POLSTON@LAKELANDGOV.NET T: (863) 834-8316	<u>SEWER</u> <u>UTILITY:</u>	CITY OF LAKELAND 501 EAST LEMON STREET LAKELAND, FL 33801 CONTACT: RICK POLSTON E: RICK.POLSTON@LAKELANDGOV.NET T: (863) 834-8316
<u>NATURAL</u> <u>GAS UTILITY:</u>	TECO PEOPLES GAS P.O. BOX 111 TAMPA, FL 33601 CONTACT: SUSAN ROCHE E: SEROCHE@TECOENERGY.COM T: (727) 667-9087	<u>ELECTRICAL</u> <u>UTILITY:</u>	LAKELAND ELECTRIC 228 S MASSACHUSETTS AVE. LAKELAND, FL 33801 CONTACT: CHELSEA ALLEN E: CHELSEA.ALLEN@LAKELANDELECTRIC.COM T: (863) 834-6459		

<u>LANDLORD:</u>	ECP PARTNERS 4362 NORTH LAKE BLVD. SUITE 214 CONTACT: MIKE LUCIDO E: MLUCIDO@ECPDEV.COM T: (616) 260-9334	<u>TENANT:</u>	CHIPOTLE MEXICAN GRILL PO BOX 182566 COLUMBUS, OH 43218-2566 CONTACT: TREVOR SCOTT E: TREVOR.SCOTT@CHIPOTLE.COM	<u>ARCHITECT:</u>	RED ARCHITECTURE 589 W. NATIONWIDE BLVD., SUITE B COLUMBUS, OH 43215 CONTACT: DANIEL MORRIS E: DMORRIS@REDARCHITECTURE.COM P: (614) 487-8770 F: (614) 487-8777
<u>MECHANICAL ELECTRICAL PLUMBING ENGINEER:</u>	ANNEX ENGINEERING GROUP 589 W. NATIONWIDE BLVD. SUITE B COLUMBUS, OH 43215 CONTACT: SCOTT STAMPER E: SSTAMPER@ANNEXMEP.COM T: (614) 481-2292 F: (614) 487-8777	<u>STRUCTURAL ENGINEER:</u>	JEZERINAC GEERS & ASSOCIATES 5640 FRANZ ROAD DUBLIN, OH 43017 CONTACT: ANDY HEIGLEY E: AHEIGLEY@JGAENG.COM T: (614) 766-0066 F: (614) 766-0066	<u>CIVIL ENGINEER:</u>	THOMAS ENGINEERING GROUP 1502 W. FLETCHER AVENUE, SUITE 101 TAMPA, FL 33612 CONTACT: JULIA BURROUGHS E: JBURROUGHS@THOMASEG.COM T: (813) 379-4100

	EXTERIOR ELEVATION MARKER		COLUMN GRID LABEL		KITCHEN EQUIPMENT NUMBER
	INTERIOR ELEVATION MARKER	Room name 	ROOM NAME & NUMBER		WASHROOM ACCESSORIES NUMBER
	SECTION MARKER		REVISION NUMBER		WALL TAG
	SECTION / DETAIL		DOOR NUMBER		LEVEL TARGET
	View Name View Scale		MISCELLANEOUS EQUIPMENT NUMBER		NORTH ARROW
	VIEW LABEL		FURNITURE NUMBER		DIMENSION TARGET
					FINISH TAG

CL	CENTER LINE	FRP	FIBERGLASS REINFORCED PANEL	OC	ON CENTER	TL	TENANT'S LIGHT/LAMP SUPPLIER
(E)	EXISTING CONSTRUCTION	FRT	FIRE RETARDANT-TREATED	OSB	ORIENTED STRAND BOARD	TMB	TENANT'S MENU BOARD SUPPLIER
(N)	NEW CONSTRUCTION			POS	POINT OF SALE PREPARATION	TMS	TENANT'S MILLWORK SUPPLIER
@	AT	GA	GAUGE	PREP	POLYVINYL CHLORIDE	TP	TENANT'S PHONE SUPPLIER
Ø	DIAMETER OR ROUND	GALV	GALVANIZED	PVC		TPS	TENANT PANELBOARD SUPPLIER
		GC	GENERAL CONTRACTOR				
		GYP	GYPSUM	QT	QUARRY TILE		
AF	ABOVE FINISH FLOOR						
ALUM	ALUMINUM			R	RADIUS	TRS	TENANT'S RAILING SUPPLIER
ARCH	ARCHITECT(URAL)	HES	TENANT'S HVAC EQUIPMENT SUPPLIER	RTU	ROOF TOP UNITS	TS	TENANT'S SAFE SUPPLIER
ASS	ALARM SYSTEM SUPPLIER	HS	HOOD SUPPLIER			TSS	TENANT'S SMART SAFE SUPPLIER
		HVAC	HEATING AND VENTILATING	SIM	SIMILAR		
BD	BOARD			SPS	SODA POP SUPPLIER	TSV	TENANT'S SIGN VENDOR
BLDG	BUILDING			SS	SUPPORT SIGNAGE	TUV	TENANT'S UV SUPPLIER
		ICP	INITIAL COST PROJECTION	STR	STRUCTURE	TYP	TYPICAL
CMU	CONCRETE MASONRY UNIT	IFP	IN FOR PERMIT	T	TENANT	U.N.O.	UNLESS NOTED OTHERWISE
CO2	CO2 SUPPLIER	INT	INTERIOR	TAB	TENANT'S TEST & BALANCE VENDOR		
CO2AS	CO2 ALARM SUPPLIER			TAS	TENANT'S ARTWORK SUPPLIER	UPS	UNINTERRUPTED POWER SUPPLY
CS	CHEMICAL SUPPLIER	KES	KITCHEN EQUIPMENT SUPPLIER				
				TBD	TO BE DETERMINED, SEE FIELD REFERENCE MANUAL	VAR	VARIES
DIM	DIMENSION(S)	MAX	MAXIMUM			VIF	VERIFY IN FIELD
		MECH	MECHANICAL				
EA	EACH	MFR	MANUFACTURER	TCC	TENANT'S CABLING CONTRACTOR	W/	WITH
ELEV	ELEVATION (VERTICAL HEIGHT)	MIN	MINIMUM			WA	WASHROOM ACCESSORIES
ELEC	ELECTRIC(AL)	MISC	MISCELLANEOUS	TDC	TENANT'S DUCT CLEANER		
ELEV	ELEVATION	MSS	MUSIC SYSTEMS SUPPLIER	TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER	WCS	TENANT'S WALK-IN COOLER SUPPLIER
EQ	EQUAL						
EXT	EXTERIOR			THS	TENANT'S HARDWARE SUPPLIER	WHS	WATER HEATER SUPPLIER
		N.I.C.	NOT IN CONTRACT			WS	TENANT'S WINDOW SHADE SUPPLIER
FC	FOR CONSTRUCTION	NO	NUMBER				



NEW COLD, DARK SHELL BUILDING. INTERIOR TO BE BUILT OUT BY TENANT UNDER SEPARATE PERMIT. PROVIDE BUILDING WITH ELECTRICAL SERVICE STUBBED IN LOCATION, GREASE INTERCEPTOR AND GAS METER, DUMPSTER ENCLOSURE. SITE WORK IS BEING PERMITTED UNDER A SEPARATE PERMIT, REFER TO ASSOCIATED CIVIL DRAWINGS.

TBD US 98



VICINITY MAP

1
6000
N.T.S.

3RD STREET (BEYOND)

AREA OF WORK

ADJACENT TENANT N.I.C.

US 98 (BEYOND)

KEY SITE PLAN

1" = 60'-0"

TRUE PLAN

[illegible]

CATEGORY	MANUFACTURER	PRODUCT DESCRIPTION	APPROVAL NUMBER
WINDOWS			
PICK UP WINDOW	QUIKSERV	BI-PARTING ALUMINUM PASS THRU WINDOW	NOA-18-014.01
PANEL WALLS			
SIDING	PAC-CLAD	STEEL WALL PANEL (WITH CONCEALED CLIPS) - FLUSH PANEL (24 GA.)	23225.4
SIDING	PAC-CLAD	STEEL WALL PANEL (WITH CONCEALED CLIPS) PRECISION SERIES HWP (24 GA.)	23225.44
STOREFRONT	KAWNEER	TRIFAB VG 451T STOREFRONT SYSTEM - 2"x4 1/2"	FL14287
ROOFING PRODUCTS			
SINGLE PLY ROOFING	DURO-LAST	PVC SINGLE PLY MEMBRANE ROOFING SYSTEM	FL16039-R17

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Issue Record:	
02/25/26	PERMIT SET
02/25/26	BID SET

Revisions: _____

Drawn: _____ Checked: _____

II H PH DM DE

JEN, FII DM, DI

Project No. _____

FDL002

EPL002

Contents:

CONCLUSIONS

COVER SHEET

6000

GOOD

— — — — —

- ☒ 44" REQUIRED EGRESS CORRIDOR WIDTH FOR OCCUPANCIES 50+.
42" REQUIRED EGRESS AISLE WIDTH FOR OCCUPANCIES 50 AND OVER.
36" REQUIRED EGRESS WIDTH FOR OCCUPANCIES UNDER 50.
SECT. 1020.3 AND 1030.9.1
- ☒ NO DEAD END CORRIDORS OVER 20'-0" SECT. 1020.5
- ☒ MAXIMUM EGRESS TRAVEL DISTANCE TO AN EXIT IS 75'-0". MEASURED AS MOST REMOTE POINT ALONG THE NATURAL AND UNOBSTRUCTED PATH OF HORIZONTAL AND VERTICAL TRAVEL TO THE EXIT.
TABLE 1006.2.1
- ☒ DISTANCE BETWEEN TWO POINTS OF EGRESS (MEASURED IN A STRAIGHT LINE BETWEEN THE TWO) SHALL NOT BE LESS THAN 1/2 DIAGONAL OF SPACE BEING SERVED FOR EGRESS PATH.
SECT. 1007.1.1
- ☐ IF FULLY SPRINKLERED DISTANCE BETWEEN TWO POINTS OF EGRESS CAN GO DOWN TO 1/3 OF DIAGONAL.
- ☒ MAXIMUM EXIT ACCESS TRAVEL DISTANCE 200' W/OUT SPRINKLER, 250' W/ SPRINKLER.
TABLE 1017.2
- ☐ MINIMUM DISTANCE BETWEEN SEATS IS 12" FOR A DISTANCE OF 12'-0" WITH AN ADDITIONAL 1/2" OF WIDTH FOR EACH 1'-0" OR FRACTION THEREOF BEYOND ORIGINAL 12'-0".
SECT. 1030.13.1.1
- ☐ EGRESS ALONG SEATING IS MEASURED 19" FROM EDGE OF TABLE WHERE MOVEABLE CHAIRS ARE USED, OR FROM THE EDGE OF A FIXED SEAT.
- ☒ DOORS IN FULLY OPEN POSITION SHALL NOT REDUCE A REQUIRED DIMENSION BY MORE THAN 7 INCHES. SECTION 1010.1.5 LANDINGS SHALL HAVE A LENGTH MEASURED IN THE DIRECTION OF TRAVEL OF NOT LESS THAN 44 INCHES.
- ☒ DOORS, WHEN FULLY OPENED SHALL NOT REDUCE THE REQUIRED MEANS OF EGRESS WIDTH BY MORE THAN 7 INCHES. DOORS IN ANY POSITION SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN ONE-HALF.
SECT. 1005.7.1
- ☐ SPACE BETWEEN TWO DOORS IN A SERIES SHALL BE 48 INCHES MIN. PLUS WIDTH OF A DOOR SWINGING INTO SPACE.
SECT. 1010.1.7

1.	OCCUPANCY GROUP: OCCUPANCY SEPARATION REQUIRED: OCCUPANCY SEPARATION PROVIDED:	A-2 N/A N/A
2.	TYPE OF CONSTRUCTION:	V-B
3.	USE GROUP: ALLOWABLE AREA: AREA INCREASE W/ SPRINKLERS: ACTUAL AREA: TENANT LEASE AREA:	A-2 6,000 S.F. N/A 2,385 S.F. 2,385 S.F.
4.	ALLOWABLE NO. OF STORIES: ACTUAL NO. OF STORIES: ALLOWABLE BUILDING HEIGHT: ACTUAL BUILDING HEIGHT:	1 1 40'-0" MAXIMUM HEIGHT 19'-0"
5.	CALCULATED OCCUPANT LOAD:	BY FUTURE TENANT UNDER SEPERATE PERMIT, NOT TO EXCEDED 99
6.	MEANS OF EGRESS REQUIRED: MEANS OF EGRESS PROVIDED:	2 3
7.	FIRE SPRINKLERS:	NONE
8.	PLUMBING FIXTURES:	BY FUTURE TENANT, UNDER SEPERATE PERMIT

BUILDING CODE:	2023 FLORIDA BUILDING CODE
EXISTING BUILDING CODE:	2023 FLORIDA EXISTING BUILDING CODE
MECHANICAL CODE:	2023 FLORIDA MECHANICAL CODE
PLUMBING CODE:	2023 FLORIDA PLUMBING CODE
ENERGY CODE:	2023 FLORIDA ENERGY CONSERVATION CODE
FUEL GAS CODE:	2023 FLORIDA FUEL GAS CODE
ELECTRICAL CODE:	2020 NATIONAL ELECTRIC CODE, NFPA 70
FIRE CODE:	2023 FLORIDA FIRE PREVENTION CODE
ACCESSIBILITY:	2023 FLORIDA ACCESSIBILITY CODE

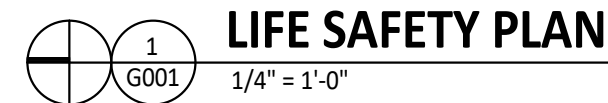
OVERALL DISTANCE:	75'-11"
REQUIRED SEPARATION:	37'-11 1/2" (NON-SPRINKLERED)
PROVIDED SEPARATION:	40'-2"

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CONSTRUCTION

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Contents:

G001



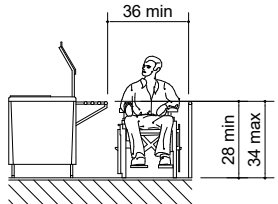
A.D.A. INTERIOR ACCESSIBILITY COMPONENTS

THIS TENANT SPACE IS REQUIRED TO BE ACCESSIBLE AS SET FORTH IN THE AMERICANS WITH DISABILITIES ACT OF 1994 AND ITS REVISED 2010 STANDARDS FOR ACCESSIBLE DESIGN. MAINTAIN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF THE ACT AND ITS ACCESSIBILITY GUIDELINES (A.D.A.), (A.D.A.A.G.).

TABLEWARE AREAS

1. FOOD SERVICE LINES SHALL HAVE A MINIMUM CLEAR WIDTH OF 36" WITH TRAY SLIDES MOUNTED NO HIGHER THAN 34" ABOVE THE FLOOR. IF SELF-SERVICE SHELVES ARE PROVIDED, AT LEAST 50% OF EACH TYPE MUST BE WITHIN REACH RANGES SPECIFIED IN SECTION 308.

2. SELF-SERVICE SHELVES AND DISPENSING DEVICES FOR DISHWARE, CONDIMENTS, FOOD AND BEVERAGES SHALL BE INSTALLED TO COMPLY WITH SECTION 308.



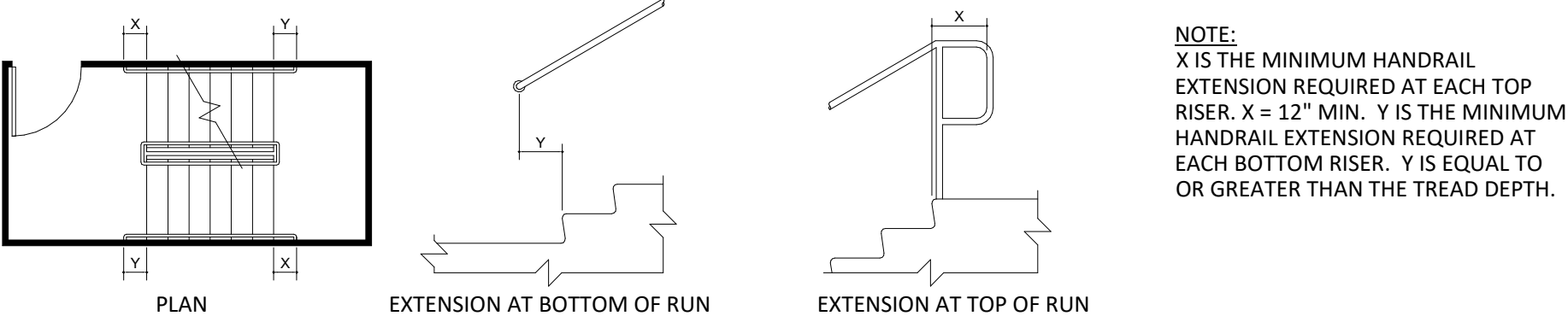
FOOD SERVICE LINES

STAIRS

1. ACCESSIBLE STAIRS SHALL COMPLY WITH SECTION 504.

2. ALL STEPS ON A FLIGHT OF STAIRS SHALL HAVE UNIFORM RISER HEIGHTS TREAD DEPTHS ALONG EACH RUN. RISERS SHALL BE 4" HIGH MIN. AND UNIFORM AND 7" HIGH MAX. TREAD SHALL BE 11" DEEP MIN.

3. THE CLEAR SPACE BETWEEN HANDRAILS AND WALL SHALL BE 1-1/2" MIN. HANDRAIL GRIPPING SURFACES SHALL BE CONTINUOUS ALONG THEIR LENGTH AND SHALL NOT BE OBSTRUCTED ALONG THEIR TOP AND SIDES. THE TOP OF HANDRAIL GRIPPING SURFACES SHALL BE INSTALLED BETWEEN 34" AND 38" ABOVE STAIR NOSINGS.



PLAN
EXTENSION AT BOTTOM OF RUN
EXTENSION AT TOP OF RUN

NOTE: X IS THE MINIMUM HANDRAIL EXTENSION REQUIRED AT EACH TOP RISER. X = 12" MIN. Y IS THE MINIMUM HANDRAIL EXTENSION REQUIRED AT EACH BOTTOM RISER. Y IS EQUAL TO OR GREATER THAN THE TREAD DEPTH.

RESTROOMS

1. ELEMENTS OF ACCESSIBLE RESTROOMS SHALL COMPLY WITH SECTIONS 603, 604, 605, 606, 607, 608, 609 & 610.

2. ACCESSIBLE URINALS SHALL BE STALL-TYPE OR WALL-HUNG AT A MAXIMUM OF 17" ABOVE FINISH FLOOR. URINALS SHALL HAVE A 30" x 48" CLEAR FLOOR SPACE TO ALLOW A FRONT APPROACH AND THE FLUSH CONTROLS SHALL BE HAND-OPERATED WITH THE CONTROLS INSTALLED ACCORDING TO SECTION 308.

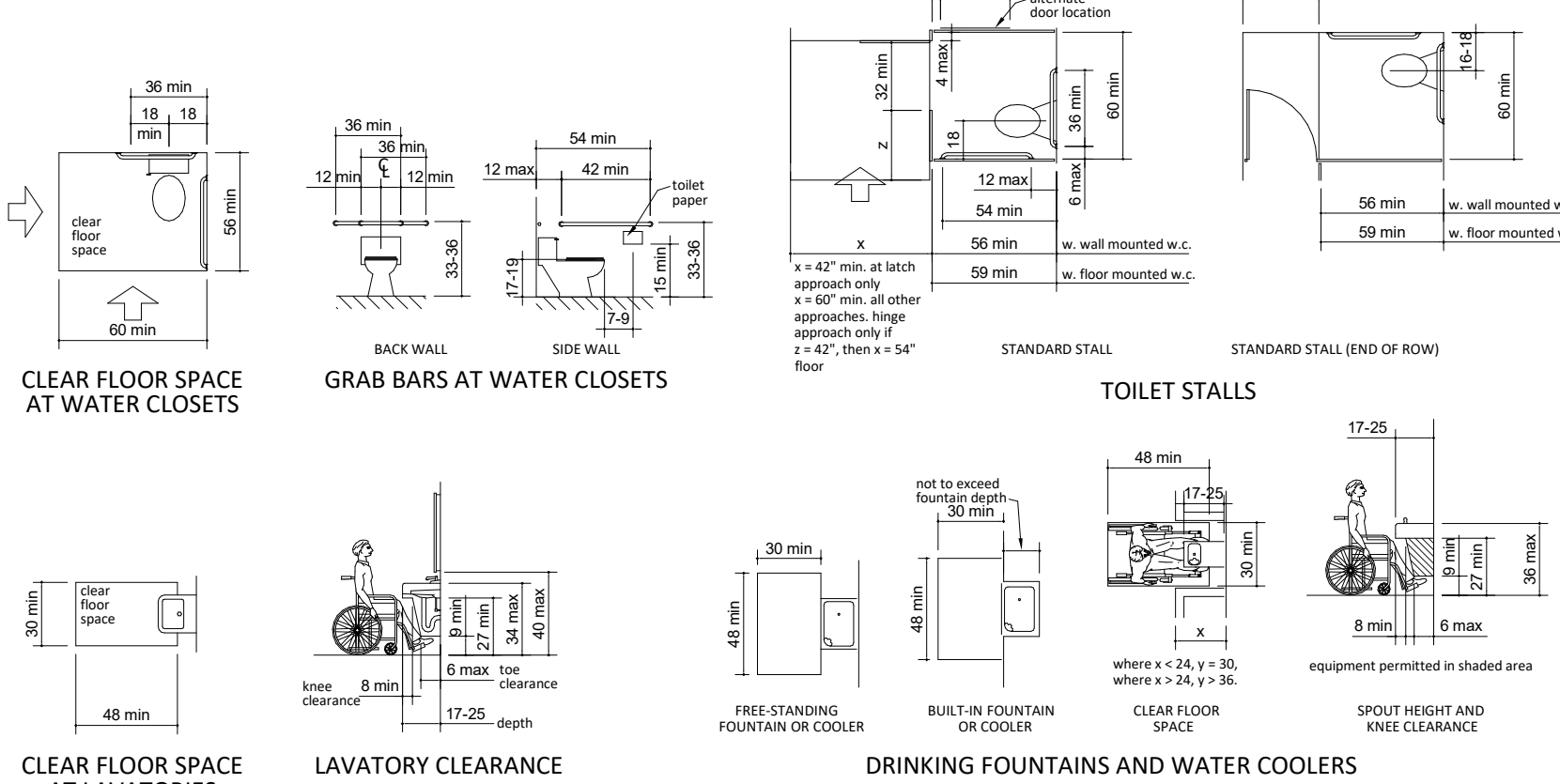
3. HOT WATER LINES AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.

4. IF HAND OPERATED METERING FAUCETS ARE USED, THE FAUCET SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM.

5. THE SPACE BETWEEN ANY OBSTRUCTION AND THE GRAB BAR SHALL BE 1-1/2". THE GRAB BAR ASSEMBLY SHALL BE CAPABLE OF WITHSTANDING BENDING STRESSES, SHEAR STRESSES, SHEAR FORCES, AND TENSILE FORCES OF UP TO 250 LBF. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

6. MOUNTING HEIGHTS TO OPERATING CONTROLS FOR RESTROOM ACCESSORIES NOT SPECIFICALLY CALLED OUT IN THE A.D.A. SHALL COMPLY WITH THE REACH RANGES SPECIFIED IN SECTION 308.

7. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED CONTROLS SHALL COMPLY WITH 309 AND BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET



CLEAR FLOOR SPACE AT WATER CLOSETS
GRAB BARS AT WATER CLOSETS
TOILET STALLS
STANDARD STALL
STANDARD STALL (END OF ROW)
CLEAR FLOOR SPACE AT LAVATORIES
LAVATORY CLEARANCE
DRINKING FOUNTAINS AND WATER COOLERS

DOORS

1. ACCESSIBLE DOORS SHALL COMPLY WITH SECTION 404.

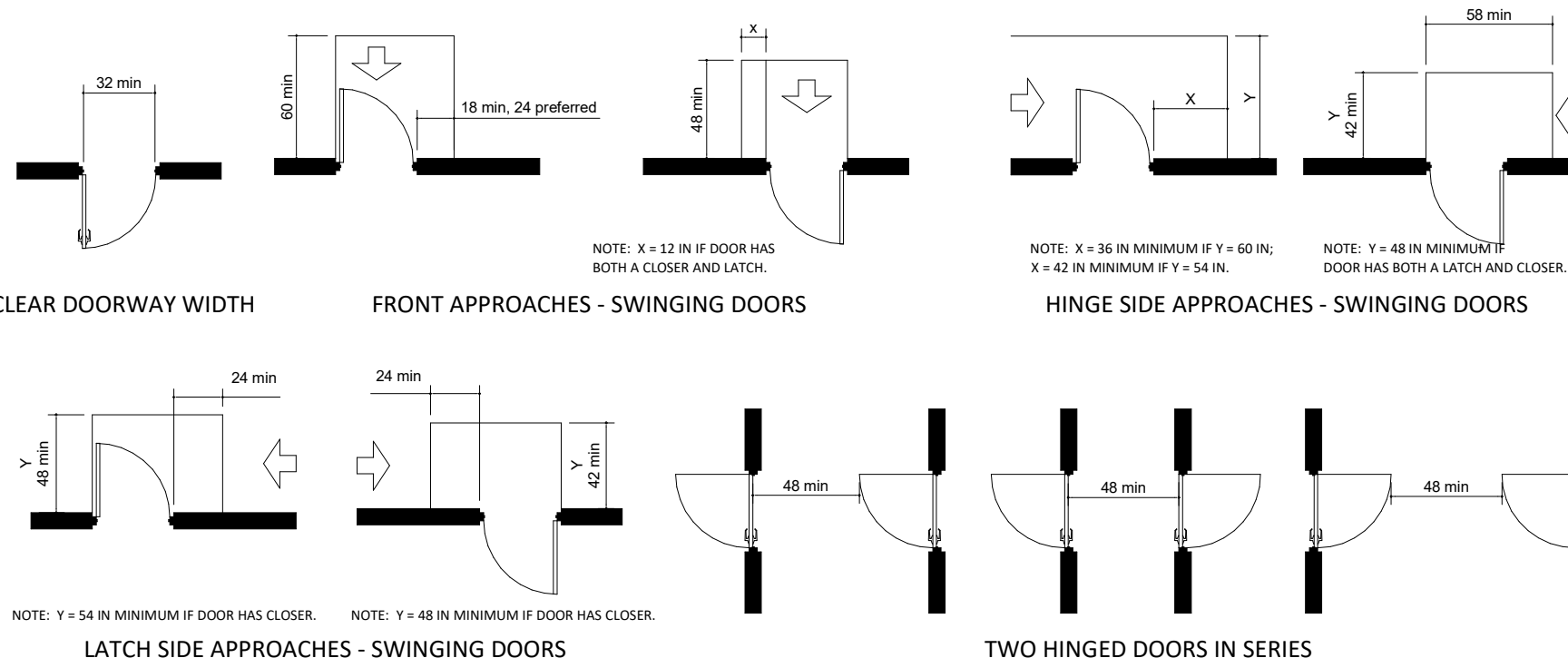
2. THRESHOLD, IF PROVIDED AT DOORWAYS, SHALL BE 1/2" HIGH MAXIMUM. EXISTING OR ALTERED THRESHOLDS 3/4" HIGH MAXIMUM THAT HAVE A BEVELED EDGE ON EACH SIDE WITH A SLOPE NOT STEEPER THAN 1:2 ARE ALSO PERMITTED.

3. DOOR AND GATE HARDWARE. HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL COMPLY WITH 309.4. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34" MINIMUM AND 48" MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.

4. DOOR CLOSERS AND GATE CLOSERS. DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM. SPRING HINGES. DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70 DEGREES, THE DOOR OR GATE SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MINIMUM.

5. ACCESSIBLE DOORS THAT ARE NOT FIRE DOORS OR EXTERIOR HINGED DOORS SHALL HAVE A MAXIMUM FORCE FOR PUSHING OR PULLING THE DOOR OPEN OF 5 LBF. THIS FORCE DOES NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT MAY HOLD A DOOR IN A CLOSED POSITION.

NOTE: ALL DOORS IN ALCOVES SHALL COMPLY WITH THE CLEARANCES FOR FRONT APPROACHES.



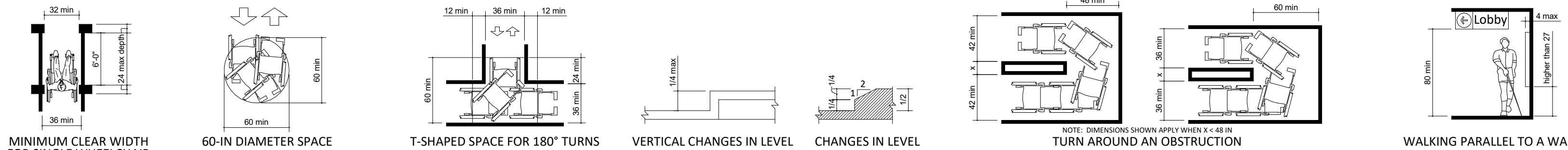
CLEAR DOORWAY WIDTH
FRONT APPROACHES - SWINGING DOORS
HINGE SIDE APPROACHES - SWINGING DOORS
LATCH SIDE APPROACHES - SWINGING DOORS
TWO HINGED DOORS IN SERIES
TABLE SEATING

PATH OF TRAVEL

1. ALL WALKS, HALLS, CORRIDORS, AISLES, SKYWALKS, TUNNELS, AND OTHER SPACES THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH SECTION 402 AND ANY OTHER APPLICABLE SECTION OF CH. 4.

2. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDING OR FACILITY ENTRANCES WITH ALL ACCESSIBLE SPACES AND ELEMENTS.

3. AN ACCESSIBLE ROUTE WITH A RUNNING SLOPE GREATER THAN 1:20 IS A RAMP AND SHALL COMPLY WITH 405. NOWHERE SHALL THE CROSS SLOPE OF AN ACCESSIBLE ROUTE EXCEED 1:48.



MINIMUM CLEAR WIDTH FOR SINGLE WHEELCHAIR
60-IN DIAMETER SPACE
T-SHAPED SPACE FOR 180° TURNS
VERTICAL CHANGES IN LEVEL
CHANGES IN LEVEL
TURN AROUND AN OBSTRUCTION
WALKING PARALLEL TO A WALL

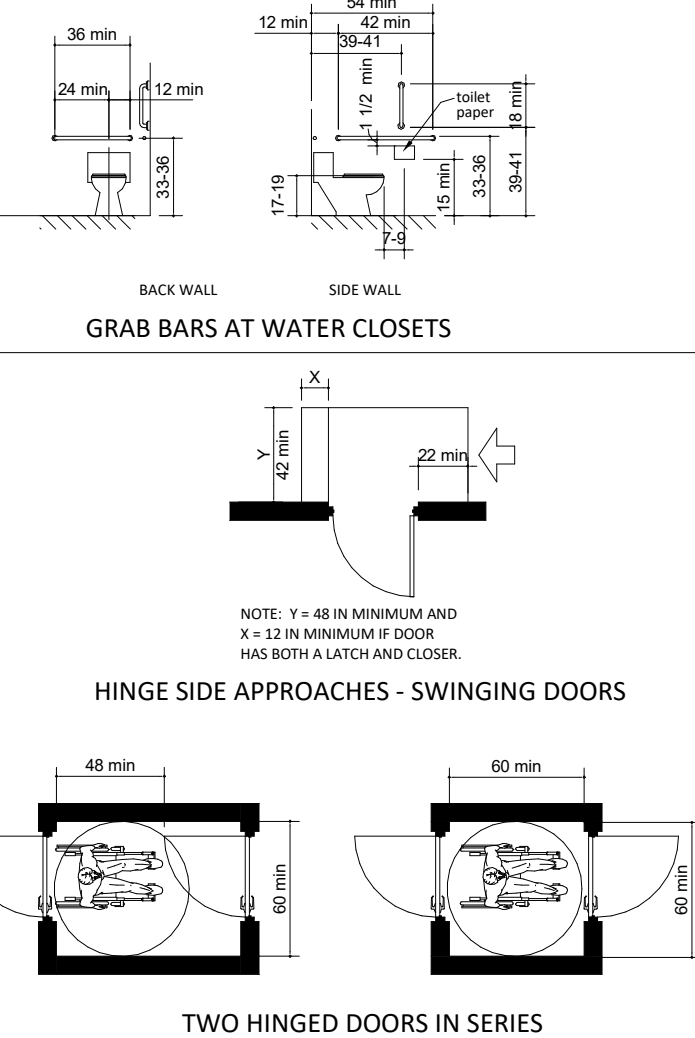
ADDITIONAL ACCESSIBILITY COMPONENTS

IN ADDITION TO ALL A.D.A./A.D.A.A.G. REQUIREMENTS, THIS FACILITY SHALL MEET THE REQUIREMENTS OF THE LOCAL JURISDICTION FOR ACCESSIBILITY AS LISTED BELOW AND SHALL MEET ALL REQUIREMENTS ICC/ANSI A117.1.

* WHERE INFORMATION LISTED/SHOWN IN THIS SECTION CONFLICTS WITH THE A.D.A.A.G. INTERIOR ACCESSIBILITY COMPONENTS, THE MORE RESTRICTIVE OF THE TWO REQUIREMENTS SHALL BE FOLLOWED.

RESTROOMS

1. ELEMENTS OF ACCESSIBLE RESTROOMS SHALL COMPLY WITH ICC/ANSI A117.1 - 2009 SECTIONS 603, 604, 605, 606, AND 609.



GRAB BARS AT WATER CLOSETS
TWO HINGED DOORS IN SERIES

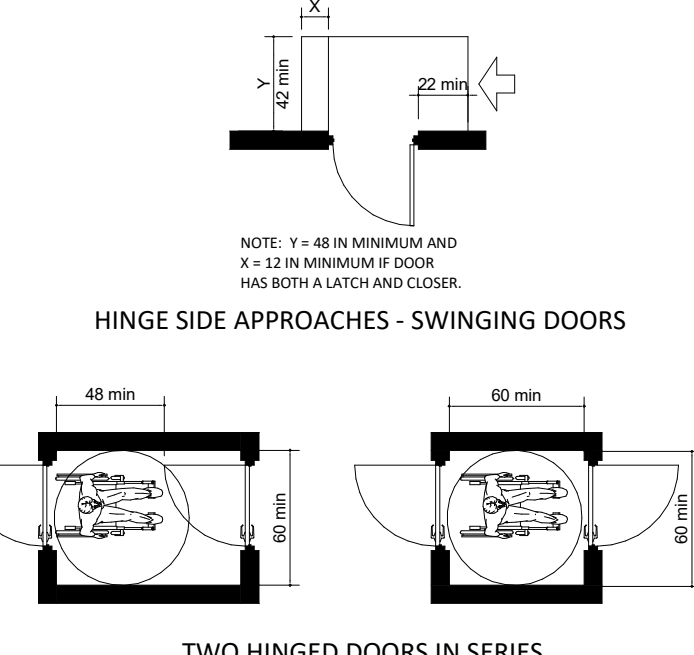
DOORS

1. ACCESSIBLE DOORS SHALL COMPLY WITH ICC/ANSI A117.1 - 2009 SECTION 404.

2. THRESHOLD AT DOORWAYS SHALL NOT EXCEED 1/2" IN HEIGHT. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT DOORWAYS SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.

3. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" ABOVE FINISHED FLOOR AND NOT LOWER THAN 34" ABOVE FINISHED FLOOR.

4. IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90°, THE DOOR WILL TAKE AT LEAST 5 SECONDS TO MOVE TO AN OPEN POSITION OF 12°.



HINGE SIDE APPROACHES - SWINGING DOORS
TWO HINGED DOORS IN SERIES

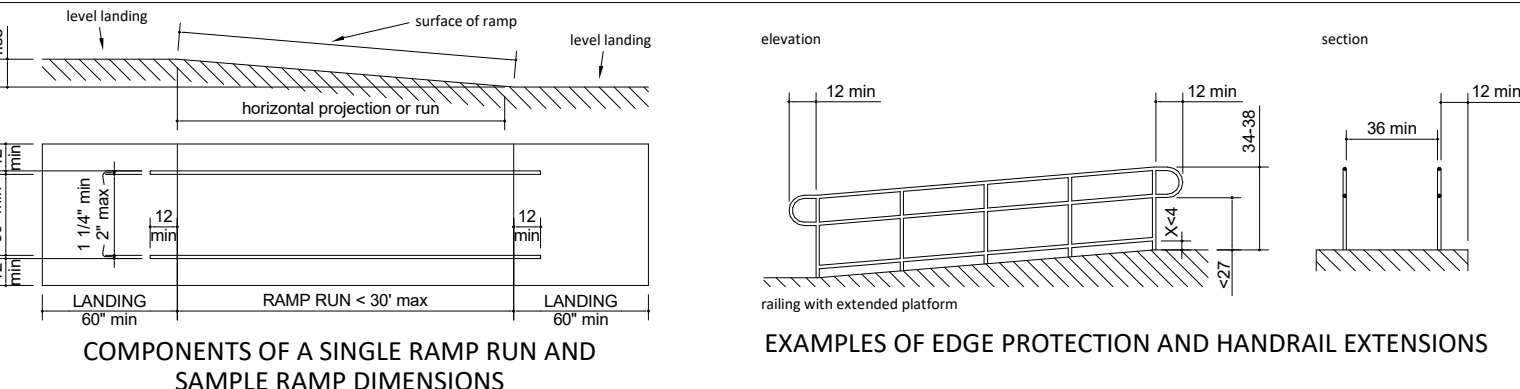
RAMPS

1. ACCESSIBLE RAMPS SHALL COMPLY WITH SECTION 405.

2. IF A RAMP HAS A RISE GREATER THAN 6" OR A HORIZONTAL PROJECTION GREATER THAN 72", THEN IT SHALL HAVE HANDRAILS ON BOTH SIDES. HANDRAILS ARE NOT REQUIRED ADJACENT TO ASSEMBLY SEATING AREAS. CLEAR SPACE BETWEEN A HANDRAIL AND AN ADJACENT WALL SHALL BE 1-1/2" MIN.

3. THE CROSS SLOPE OF RAMP SURFACES SHALL BE NO GREATER THAN 1:48.

4. EXISTING RAMP'S SLOPE SHALL COMPLY WITH SECTION 405.2. FOR A RAMP NOT RISING MORE THAN 3" THE MAXIMUM SLOPE CAN BE 1:8>X>1:10. FOR A RAMP RISING GREATER THAN 3" BUT NOT MORE THAN 6" THE MAXIMUM SLOPE CAN BE 1:10>X>1:12.



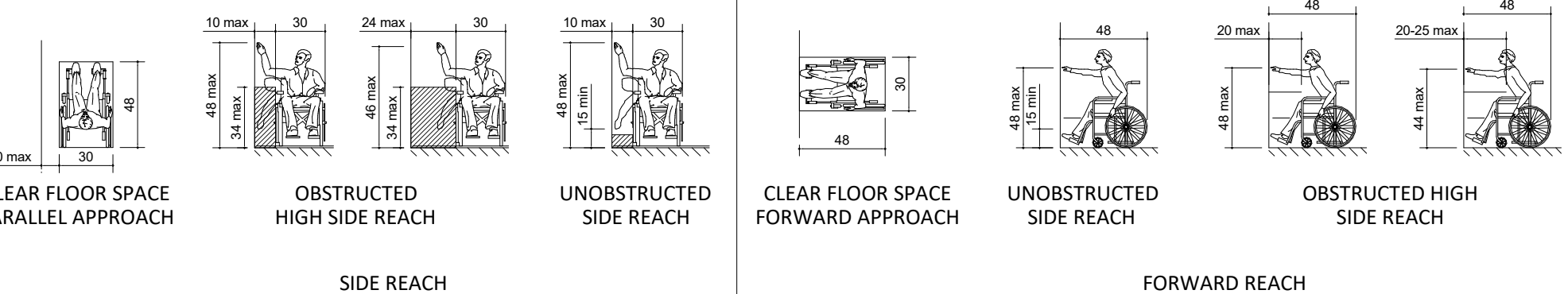
COMPONENTS OF A SINGLE RAMP RUN AND SAMPLE RAMP DIMENSIONS
EXAMPLES OF EDGE PROTECTION AND HANDRAIL EXTENSIONS

CONTROLS

1. CONTROLS & OPERATING MECHANISMS SHALL COMPLY WITH SECTION 309.

2. ALL CONTROLS & OPERATING MECHANISMS WHICH ARE INTENDED FOR NORMAL USE BY BUILDING OCCUPANTS SHALL BE PROVIDED WITH A.D.A.-COMPLIANT CLEAR FLOOR SPACES & SHALL COMPLY WITH REACH RANGES IN SECTION 308.

3. REACH RANGES FOR CHILDREN UNDER AGES 12 SHALL COMPLY WITH SECTION 308.1.



CLEAR FLOOR SPACE PARALLEL APPROACH
OBSTRUCTED HIGH SIDE REACH
UNOBSTRUCTED SIDE REACH
CLEAR FLOOR SPACE FORWARD APPROACH
UNOBSTRUCTED SIDE REACH
OBSTRUCTED HIGH SIDE REACH

SIGNAGE

1. ACCESSIBLE SIGNAGE SHALL COMPLY WITH SECTION 703.

2. LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE-WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10.

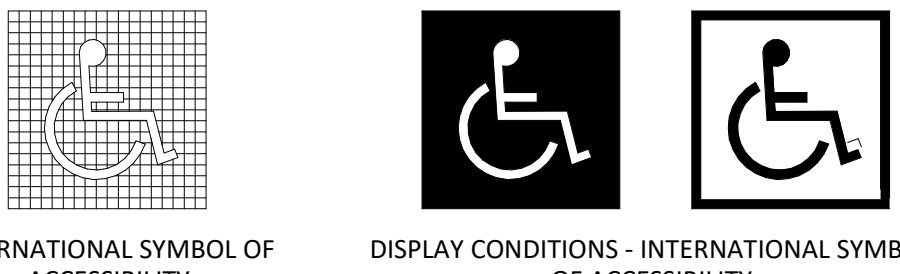
3. CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. CHARACTER HEIGHT SHALL BE MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8" MIN. AND 2" MAX. BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I".

4. LETTERS AND NUMERALS SHALL BE RAISED 1/32", UPPER-CASE SANS SERIF TYPE, AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8" HIGH, BUT NO HIGHER THAN 2". PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE 6" MINIMUM IN HEIGHT. BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD.

5. THE CHARACTERS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND - EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.

6. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT SIDE OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18" MIN. BY 18" MIN. CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED DOOR AND THE 45 DEGREE OPEN POSITION.

HEIGHT TO FINISH FLOOR OR GROUND FROM BASELINE OF CHARACTER	HORIZONTAL VIEWING DISTANCE	MINIMUM CHARACTER HEIGHT
40" TO LESS THAN OR EQUAL TO 70"	LESS THAN 72"	5/8"
	72" AND GREATER	5/8" PLUS 1/8"/FT OF VIEWING DISTANCE ABOVE 72"
GREATER THAN 70" TO LESS THAN OR EQUAL TO 120"	LESS THAN 180"	2"
	180 INCHES AND GREATER	2" PLUS 1/8"/FT OF VIEWING DISTANCE ABOVE 180"
GREATER THAN 120"	LESS THAN 21'	3"
	21' AND GREATER	3" PLUS 1/8"/FT OF VIEWING DISTANCE ABOVE 21'



INTERNATIONAL SYMBOL OF ACCESSIBILITY
DISPLAY CONDITIONS - INTERNATIONAL SYMBOL OF ACCESSIBILITY

TABLE SEATING

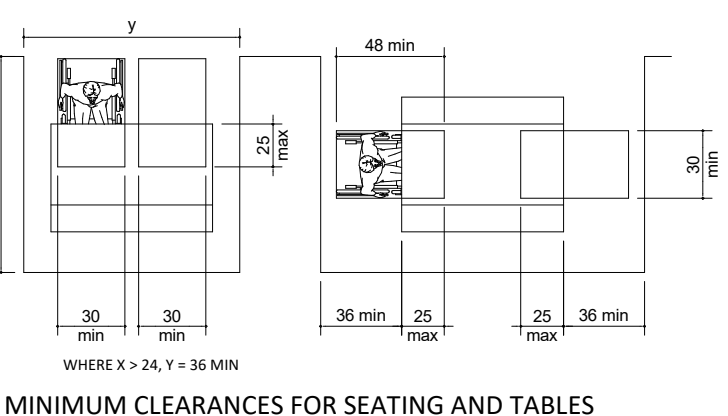
1. WHERE FIXED TABLES (OR DINING COUNTERS WHERE FOOD IS CONSUMED BUT THERE IS NO SERVICE) ARE PROVIDED, AT LEAST 5 %, BUT NOT LESS THAN ONE, OF THE FIXED TABLES (OR A PORTION OF THE DINING COUNTER) SHALL BE ACCESSIBLE AND SHALL COMPLY WITH SECTION 902.

2. IN ESTABLISHMENTS WHERE SEPARATE AREAS ARE DESIGNATED FOR SMOKING AND NON-SMOKING PATRONS, THE NUMBER OF ACCESSIBLE FIXED TABLES (OR COUNTERS) SHALL BE PROPORTIONALLY DISTRIBUTED BETWEEN THE SMOKING AND NON-SMOKING AREAS.

3. WHERE FOOD OR DRINK IS SERVED AT COUNTERS EXCEEDING 34" IN HEIGHT FOR CONSUMPTION BY CUSTOMERS SEATED ON STOOLS OR STANDING AT THE COUNTER, A PORTION OF THE MAIN COUNTER WHICH IS 60" IN LENGTH MINIMUM SHALL BE PROVIDED IN COMPLIANCE WITH SECTION 305 OR SERVICE SHALL BE AVAILABLE AT ACCESSIBLE TABLES WITHIN THE SAME AREA.

4. AT LEAST 5% OF ALL TABLE SEATING SHALL BE ACCESSIBLE PER THE REQUIREMENTS OF SECTION 226.

5. ACCESSIBLE SEATING AT TABLES AND/OR COUNTERS SHALL COMPLY WITH CHAPTER 3.



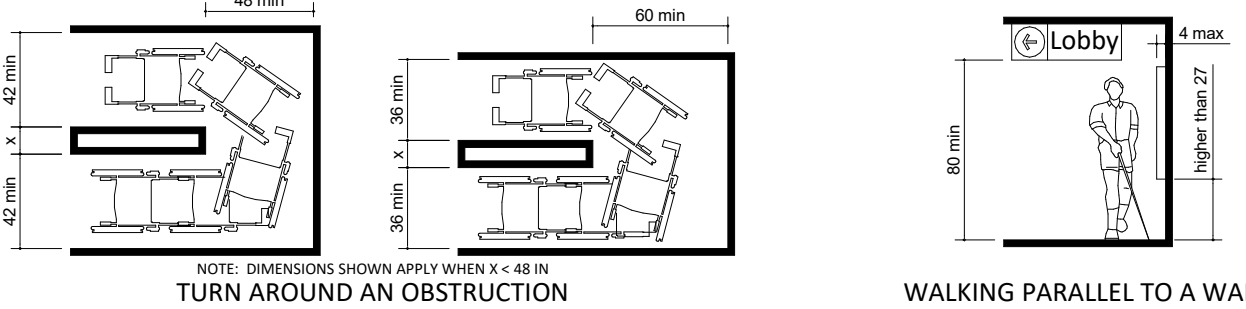
MINIMUM CLEARANCES FOR SEATING AND TABLES

TURN AROUND AN OBSTRUCTION

1. ALL WALKS, HALLS, CORRIDORS, AISLES, SKYWALKS, TUNNELS, AND OTHER SPACES THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH ICC/ANSI A117.1 - 2009 SECTION 402

2. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDING OR FACILITY ENTRANCES WITH ALL ACCESSIBLE SPACES AND ELEMENTS.

3. AN ACCESSIBLE ROUTE WITH A RUNNING SLOPE GREATER THAN 1:20 IS A RAMP AND SHALL COMPLY WITH ICC/ANSI A117.1 - 2009 SECTION 405. NOWHERE SHALL THE CROSS SLOPE OF AN ACCESSIBLE ROUTE EXCEED 1:48.




T-SHAPED SPACE FOR 180° TURNS
WALKING PARALLEL TO A WALL

TURN AROUND AN OBSTRUCTION

1. ALL WALKS, HALLS, CORRIDORS, AISLES, SKYWALKS, TUNNELS, AND OTHER SPACES THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH ICC/ANSI A117.1 - 2009 SECTION 402

2. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDING OR FACILITY ENTRANCES WITH ALL ACCESSIBLE SPACES AND ELEMENTS.

3. AN ACCESSIBLE ROUTE WITH A RUNNING SLOPE GREATER THAN 1:20 IS A RAMP AND SHALL COMPLY WITH ICC/ANSI A117.1 - 2009 SECTION 405. NOWHERE SHALL THE CROSS SLOPE OF AN ACCESSIBLE ROUTE EXCEED 1:48.



T-SHAPED SPACE FOR 180° TURNS
TURN AROUND AN OBSTRUCTION

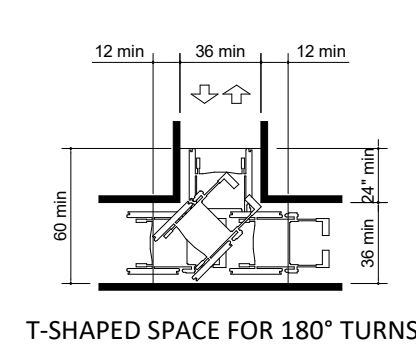
SIGNAGE

1. ACCESSIBLE SIGNAGE SHALL COMPLY WITH ICC/ANSI A117.1 - 2009 SECTION 703.

2. LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO SUCH THAT THE WIDTH OF AN UPPERCASE "O" SHALL BE 55% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF AN UPPERCASE "I".

3. CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ, TABLE 703.2.4. THE MINIMUM HEIGHT IS MEASURED USING AN UPPER-CASE I. LOWER CASE CHARACTERS ARE PERMITTED. SIGNS INSTALLED OVER 120" ABOVE FINISHED FLOOR SHALL HAVE A MINIMUM CHARACTER HEIGHT OF 3".

4. WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR, INCLUDING DOUBLE-LEAF DOORS. SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE 60" ABOVE FINISHED FLOOR TO THE BOTTOM OF HIGHEST LINE OF TEXT. MOUNTING LOCATION FOR SUCH SIGNAGE SHALL BE LOCATED SO THAT A CLEAR FLOOR AREA 18" MINIMUM BY 18" MINIMUM CENTERED ON THE TACTILE CHARACTERS IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.



T-SHAPED SPACE FOR 180° TURNS

BID DOCUMENTS
ONLY NOT FOR
CONSTRUCTION

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REMAIN THE PROPERTY OF RED ARCHITECTURE LLC
AND MAY NOT BE USED, DUPLICATED, OR ALTERED
WITHOUT WRITTEN CONSENT OF THE ARCHITECT.



CMG HIGHLAND CITY SHELL, FL
TBD US 98
LAKELAND, FL 33812

Issue Record:
02/25/26 PERMIT SET
02/25/26 BID SET

Revisions:
1.
2.
3.
4.
5.
6.
7.
8.
9.
10.

Drawn: JLH,PH Checked: DM,DF

Project No. EPL002

Contents:

ACCESSIBILITY
REQUIREMENTS

DIVISION 1 - GENERAL REQUIREMENTS

SECTION 01100 - SUMMARY

1.1 Contract Documents:

- A. Contractor shall use the following Tenant provided documents in the negotiation and execution of the Work. Contact Owner's office for copies of these documents:
1. Instructions to Bidders.
 2. Construction Contract.
- B. Definitions:
1. The term "Owner" used in these documents refers to the building Owner/Landlord.
 2. The term "Tenant" used in these documents refer to the restaurant Tenant, Chipotle Mexican Grill, Inc.
 3. The term "Contractor" used in these documents refers to the entity responsible for performing the Work under Construction Contract for Owner.

1.2 Scope of Work:

- A. The Work shall include construction of the site and building facilities as shown and specified in these Specifications and Drawings.
- B. When required and necessary, the Tenant will provide a subsurface exploration report as an attachment the bidding documents.

SECTION 01300 - ADMINISTRATIVE REQUIREMENTS

1.1 Coordination:

- A. Immediately inform the Architect of discrepancies between the information indicated in the Contract Documents and existing project conditions, and of discrepancies between information indicated on the architectural, structural, mechanical, plumbing and electrical documents.
- B. Prior to fabrication and installation of new components, field verify all existing and new dimensions and installation conditions that may affect the Work. Do not scale the drawings to establish locations of items that are not located using dimensions.
1. All dimensions are to rough face of stud or centerline of structure, unless otherwise indicated.
 2. Verify that all Subcontractors have reviewed and coordinated locations of their equipment and furnishings exposed to view with the architectural drawings. Review questions with the Architect.
- C. Coordinate new work indicated on the Contract Documents with new work that may be provided by the Owner and Tenant under separate contracts.
- D. Coordinate the work of Vendors, Contractors and Subcontractors providing fixtures, furniture and equipment identified as "by Tenant" in these drawings and specifications.
1. Notify the Tenant in timely fashion if any problems develop with the performance of these Vendors, Contractors or Subcontractors.
- E. Coordinate the scheduling, sequencing, and the work of all trades and Subcontractors to assure efficient and orderly sequences of installation of interdependent construction elements.
- F. Verify that the utility requirement characteristics of operating equipment are compatible with the building utility services. Coordinate work of the various specification sections having interdependent responsibilities for installing, connecting to, and placing in service such equipment.
- G. Coordinate the installation and physical space requirements of plumbing, mechanical and electrical work that are indicated diagrammatically on the drawings. Follow routing schedule for piping, ducts and conduit as closely as practical. Install runs parallel with and perpendicular to the line of the building. Utilize spaces as efficiently as possible to maximize accessibility for other work installation and for maintenance and for repair.
1. Conceal piping, ducts and conduit within the construction, except as otherwise indicated.
 2. Coordinate locations of registers, fixtures and outlets with finish elements.
- H. Coordinate completion and cleanup work of all trades and Subcontractors in preparation for Substantial Completion.
- I. To minimize disruption of Tenant's activities after Tenant occupancy of the property, coordinate access to the property with the Tenant's Construction Manager for correction of defective work and work not in accordance with the Contract Documents.

1.2 Submittals:

- A. Only when indicated in the specifications or drawings submit shop drawings, product data, and/or samples to the Architect, Design Manager, and Development Analyst for review. All submittals shall be made directly to the Architect by the general contractor. Only submittals for specified products will be accepted unless prior approval has been obtained for a substitution (refer to Section 01630).
- Shop drawings: Submit electronic copies of each sheet of drawings. Shop drawings are original drawings prepared by the subcontractor or vendor for the purpose of conveying information to the Architect and/or Engineer on how a building element or product will be constructed in sufficient detail for the Architect and/or Engineer to determine compliance with the design intent.

In all cases one copy of the submittal shall be returned to the General Contractor. Electronic submittals for shop drawing or product data in either PDF or DWG format are acceptable for review. All submittals, regardless of format, must bear the General Contractor's stamp indicating the submittal has been reviewed and approved. Any submittal not meeting the requirements set forth will be rejected by the Architect.

Submittals shall be made with respect to the construction schedule to allow for adequate review time: allow (5) business days for review of submittals for any structural steel, canopies and trusses and allow (3) business days for review of submittals in all other divisions. Review timeline will commence from the time the submittal with General Contractor's approval stamp is received by the Architect, Design Manager, and Development Analyst.

1.3 Requests For Information

- A. In the event that the general contractor, or a subcontractor, at any tier, determines that some portion of the drawings, specifications, or other contract documents requires a clarification or interpretation by the architect, the general contractor shall submit a Request For Information in writing to the architect in an electronic copy.

Requests for Information may only be submitted by the general contractor and may only be submitted to the architect. The general contractor shall clearly and concisely set forth the issue for which clarification or interpretation is sought and why a response is needed from the architect or the architect's consultants. In the Request for Information, the general contractor shall set forth an interpretation or understanding of the requirement along with an explanation of why such an understanding was reached.

- B. The architect will review all Requests for Information to determine whether they are Requests for Information within the meaning of this term. If the architect determines that the document is not a request for information, it will be returned to the general contractor, un-reviewed as to content, for re-submittal in the proper form and in the proper manner.

Responses to Requests for Information shall be issued upon receipt, but no later than five (5) working days of receipt of the Request from the general contractor; unless the architect determines that a longer amount of time is necessary to provide an adequate response. If a longer amount of time is determined necessary by the architect, the architect will, within five (5) working days of receipt of the Request, notify the general contractor of the anticipated response time. If the general contractor submits a Request for Information on an activity with five (5) working days or less of float on the current project schedule the general contractor shall not be entitled to any time extension due to the time it takes the architect to respond to the Request provided that the architect responds within the parameters set forth above.

- C. Responses to Requests for Information from the architect will not change any requirements of the contract documents. In the event that the general contractor believes that a response to a Request For Information will cause a change to the requirements of the contract documents, the general contractor shall immediately give written notice to the architect and the tenant stating that the general contractor considers the response to be a Change Order. Failure to give such written notice immediately shall waive the general contractor's (or any subcontractor's) right to seek additional time or cost under the Administrative Requirements of these contract documents.

SECTION 01400 - QUALITY REQUIREMENTS

1.1 Regulatory Requirements:

- A. Perform all work in accordance with applicable local, state, and federal building codes, plumbing codes, mechanical codes, electrical codes, ordinances and rules and regulations governing food service establishments.
- B. Comply with local, state and federal requirements governing accessibility.
- C. Obtain all required demolition and erosion control permits required by authorities having jurisdiction.

1.2 Quality Control:

- A. Maintain quality control over manufacturers, suppliers, products, services, site conditions and workmanship, to produce work of specified quality.
- B. Comply with manufacturer's instructions and applicable trade standards.
- C. Handle, install, connect, clean, condition and adjust products in strict accordance with manufacturer's instructions and complying with specified requirements.
1. Request clarification from the Architect before proceeding, where manufacturer's instructions conflict with the Contract Documents.
- D. Comply with specified standards as a minimum quality for the Work, except when more stringent tolerances, codes or specified requirements indicate higher standards or more precise workmanship.
- E. Perform work by persons qualified to produce workmanship of the specified quality. Secure products in place with positive anchorage devices designed, sized and installed to withstand stress, vibration, physical distortion or disfigurement.
- F. All dimensions shall be considered "hold-to" dimensions unless indicated otherwise (e.g. minimum or maximum dimensions.)

1.3 Testing:

- A. Employ and pay for the services of an independent testing laboratory to perform inspections, tests and other services when required.
- B. Include inspection and tests as indicated in the specification sections, drawings, and as required by authorities having jurisdiction.
1. Test concrete in accordance with Section 03300 and drawing requirements.
 2. Test structural steel in accordance with Section 05110 and drawing requirements.

SECTION 01500 - TEMPORARY FACILITIES AND CONTROLS

1.1 Provide temporary facilities and controls as shown and specified:

- A. Codes and Standards: Provide temporary construction facilities and controls complying with all applicable local, State and Federal local laws, regulations and codes and utility company requirements.
- B. Temporary Heating, Ventilating and Cooling:
1. Provide, pay for and maintain all temporary heating, ventilating and cooling equipment and facilities required during the progress of the work to protect materials, finished work, and equipment against damage from low and high temperatures and humidity.
 2. Provide temporary heating, ventilating and cooling when the outside temperature and humidity is low/high enough to damage or affect in any way the performance or quality of material and product stored in the building, in any temporary storage area, or any material or product incorporated into the work.
 3. Provide temporary heating, ventilating and cooling when the outside temperature and humidity is low/high enough to significantly slow or hamper effectiveness of workers and to provide suitable working conditions.
- C. Temporary Electrical Lighting and Power:
1. Provide, pay for and maintain all temporary electrical service for lighting and power required during the progress of the work. Include all necessary wiring, fuses, disconnect switches, safety devices, junction boxes, panels, ground fault protections, and transformer if required. Include cost for providing temporary electric generators in the Contract Sum, if temporary electric service is not available for use during progress of the work.
 2. Temporary service and lighting and power items and installations shall conform to the requirements of the NFPA National Electric Code and OSHA Occupational Safety and Health Act of 1970.
- D. Water: Provide, pay for and maintain all temporary water required during the progress of the work. Include all necessary storage tanks, piping, valves, fittings, hose and hose connections during construction and testing.
- E. Temporary Toilets: Provide, pay for and maintain temporary toilet facilities for use by the Contractor, Contractor's employees and all Subcontractors and Subcontractors' employees. Comply with all local requirements for installation, use and maintenance of temporary toilet facilities.
- F. Barriers and Enclosures:
1. Provide temporary construction barriers in accordance with project requirements. Exercise all necessary precautions to protect adjacent properties, outside project contact limits, during progress of the work. Take special precautions to avoid damage to existing overhead and underground utilities and services owned or operated by the Owner or by public or private utility companies.
 2. Provide temporary weather-tight enclosures at exterior openings to provide acceptable working conditions and protection of materials and to allow for temporary heating, ventilating and cooling.
- G. Field Office, Telephone and Email:
1. Provide and maintain a temporary field office at the project site during progress of the work. A designated area within the existing building will be available for use as a temporary field office. Verify area size and location with the Tenant.
 2. Maintain copies of permits, approved shop drawings, specifications, addenda and record documents at field office.
 3. Provide temporary telephone service and internet service with email and photo capabilities to field office throughout progress of the work.
 4. Provide weekly photographic documentation of project progression to Tenant.

H. Safety and Security

1. Provide and maintain all necessary safety provisions for protection and safety of the project work, workers and general public.
2. Provide and maintain operable fire extinguishing devices in well-marked, accessible locations throughout the project. Provide types, quantities and locations in compliance with governing codes and ordinances.
3. Provide all necessary security barriers and enclosures to protect the work and Tenant's operations from unauthorized entry of persons, vandalism and theft. Provide doors, when required, with self-closing hardware and locks.

I. Cleaning

1. During Construction: Provide an approved on-site container for the use of all Contractors and Subcontractors for the collection of waste materials, debris and rubbish. Execute periodic cleaning to keep the work, the site and adjacent properties free from accumulations of waste materials, rubbish and windblown debris, resulting from construction operations. Remove crates and cartons in which materials, equipment, or fixtures are received to on-site containers daily.
 - a. Maintain the property in a clean and orderly condition. Remove waste materials, debris and rubbish from the site on a daily basis and dispose of at legal disposal areas away from the site.
2. Dust Control:
 - a. Remove debris and rubbish from pipe chases, plenums and other similar closed or remote spaces prior to covering or enclosing the space.
 - b. Sweep and vacuum clean interior surfaces before start of surface finishing and painting. Continue cleaning on an as-needed basis until finishing and painting is completed.
 - c. Cleaning operations shall be acceptable to the Tenant's Construction Manager.

SECTION 01630 - SUBSTITUTIONS

1.1 General:

- A. Products, including materials, equipment and systems described in the Contract Documents establish the standards of required function, dimension, appearance, quality and performance of the Work. Base all bids on the "Standards" indicated.
- B. Requests by the Contractor for changes in products, manufacturers, fabricators, suppliers, installers, and methods of construction required by the Contract Documents are considered requests for "substitutions." Substitutions will be considered only under the following conditions:
1. The indicated "Standard" cannot be provided within the Contract Time
 2. The indicated "Standard" cannot receive necessary approval by the governing authority.
 3. A substantial advantage is offered the Owner, in terms of cost, time, energy conservation or other considerations of merit as determined by the Architect.

- C. Submit each request for substitution to the Architect. Identify the product, manufacturer, fabricator, supplier, installer or the fabrication or installation method to be replaced in each request. Identify related Specification Section and Drawing numbers. Provide documentation as directed by the Architect.
- D. Substitutions will not be considered when indicated on shop drawings or product data submittals without separate written request, when requested directly by subcontractor, manufacturer, fabricator, or supplier, or when acceptance will require substantial revision of the Contract Documents.
- E. Substitute products, manufacturers, fabricators, suppliers, and installers shall not be used for the Project without Tenant and Architect's written acceptance.

SECTION 01700 - EXECUTION REQUIREMENTS

1.1 Preparation:

- A. Protection of existing construction: Use all necessary care and appropriate means and methods to protect and prevent damage to existing construction and property not part of the Contract Work. Repair and refinish or replace construction an property damaged during construction work, at Contractor's expense.

1.2 Selective Demolition: Provide selective demolition as shown and specified.

- A. Preparation:
1. Coordinate work of this Section with work of various Contractors and Tenant's staff.
 2. Maintain protected access at all times.
 3. Erect and maintain weatherproof closures at exterior openings.
 4. Erect and maintain dust-proof interior partitions to prevent spread of dust or fumes.
 5. Erect and maintain barricades, enclosures, bracing, shoring, lights, warning signs and guards necessary for worker and public safety and protection of property.
 6. Disconnect, remove and cap designated utility services. Identify and mark locations of disconnected and capped utilities at the project site and on Project Record Documents.
 7. Notify and coordinate with the Tenant's Construction Manager and the building Owner for any demolition occurring outside the lease limit.
 8. Coordinate hours of operation and construction access with the Tenant's Construction Manager and the building Owner.
- B. Selective Demolition
1. Remove existing construction to accommodate new construction as indicated.
 2. Perform selective demolition in an orderly, systematic and careful manner with least possible disturbance to public and adjacent property. Use of explosives is prohibited.
 3. Immediately remove from the site and legally dispose of demolished materials, except as indicated otherwise. Do not burn or bury materials on the project site.

1.3 Cleaning

- A. Final Cleaning: Perform final cleaning upon completion of project work.
1. Remove waste and surplus materials, rubbish, tools, equipment and temporary construction facilities from the site.
 2. Clean exterior grounds; remove stains, spills and foreign materials from paved areas, power wash and sweep clean. Rake clean landscaped surfaces of the grounds.
 3. Remove temporary protection and labels not required to remain.
 4. Clean all finished surfaces. Remove grease, mastic, adhesives, dust, dirt, stains, fingerprints, labels and other foreign materials from exposed interior and exterior surfaces.
 - a. Clean all plumbing, fire protection and electrical fixtures and equipment including ceiling area elevated ductwork and lighting fixtures.
 - b. Clean permanent equipment filters and replace temporary disposable filters in mechanical units used during construction.
 - c. Clean ducts, blowers and coils if mechanical units were operated without filters during construction.
 5. Clean interior and exterior glazing and mirrors, polish transparent and glossy surfaces and clean floors with appropriate materials and equipment.
 6. Remove waste, foreign material and debris from roofs, areaways and drainage systems.
 7. Before Tenant occupancy, conduct an inspection, with the Tenant, of exposed interior and exterior surfaces at all work areas, to verify that the entire work is clean.

1.4 Starting and Adjusting:

- A. Prior to Substantial Completion, coordinate the start-up, test and balance, placement in operation and adjustment all systems, controls and equipment to verify proper operation. All systems shall be complete and operating prior to final inspection.

1.5 Contract Closeout:

- A. Operation and Maintenance Data: Submit one operation and maintenance manual, bound in 8-1/2" x 11" text pages, three D side ring capacity expansion binders with durable plastic covers.
1. Subdivide the binder contents internally with permanent dividers logically organized as described below. Provide tab titles clearly printed under reinforced laminated plastic tabs.
 2. Provide a table of contents with each product or system description identified.
 3. Provide a directory listing names, addresses, and telephone numbers of the project Architect/Engineer, Contractor, Subcontractors and major equipment suppliers.
 4. Prepare operations and maintenance instructions arranged by system and subdivided by specification section. Identify names, addresses, and telephone numbers of project Subcontractors and suppliers. For each category, identify the following:
 - a. Significant design criteria.
 - b. List of equipment.
 - c. Parts list for each component.
 - d. Operating instructions.
 - e. Maintenance instructions for each equipment item and systems.
 - f. Maintenance instructions for special finishes, including recommended cleaning methods and materials and special precautions for identifying detrimental agents.
 5. Submit operations and maintenance data to the Tenant with final application for payment in accordance with Exhibit C of the Construction Contract.

B. Record/As Built Documents:

1. Prepare and maintain on site one set of the following record/as built documents:
 - a. Contract Documents.
 - b. Construction Documents.
 - c. Change orders and other modifications to the Contract.
 - d. Shop drawings, product data, and samples.
 - e. Construction schedule.
2. Store record/as built documents separate from documents used for construction.
3. Record actual revisions to the Work, concurrently with construction progress.
4. Legibly mark and record a description of actual products installed at each specification section, including the following:
 - a. Manufacturer's name and product model and number.
 - b. Approved product substitutions or alternates utilized.
 - c. Changes made by addenda, change orders, and other modifications.
5. Legibly mark each item to record actual construction, including the following:
 - a. Measured depths of foundations in relation to finish first main floor datum.
 - b. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
 - c. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the work.
 - d. Field changes of dimension and detail.
 - e. Details not on original Contract Document drawings.
6. Submit record/as built documents to the Tenant with final application for payment in accordance with Exhibit C of the Construction Contract.

C. Warranties and Bonds:

1. Compile warranties and bonds required by the Contract Documents.
2. Submit duplicate copies of warranties and bonds to the Tenant with final application for payment in accordance with Exhibit C of the Construction Contract.

D. Maintenance Materials and Spare Parts:

1. Provide extra maintenance materials and spare parts in quantities indicated in the specification sections.
2. Place in location as directed by the Tenant's Construction Manager.

DIVISION 2 - SITE CONSTRUCTION

- 1.1 General: Provide site construction work, including services, utilities, earthwork, paving and landscaping in accordance with the site construction work drawings and details.

2.1 Materials:

- A. Stencils for pavement markings: Pavement Stencil Comapny, P: (800) 250-5547, stencils@pavementstencil.com

DIVISION 3 - CONCRETE

SECTION 03300 - CAST-IN-PLACE CONCRETE

- 1.1 General: Provide cast-in-place concrete work in accordance with the General Structural Notes, structural drawing and details. Follow shell building documents for specifications, joints and geotech.

- A. Standards: Materials and construction shall conform to the following:

1. ACI 117 "Standard Tolerances for Concrete Construction and Materials."
2. ACI 301 "Structural Concrete for Buildings."
3. ACI 305R "Recommended Practice for Hot Weather Concreting."
4. ACI 306R "Recommended Practice for Cold Weather Concreting."
5. ACI 315 "Details and Detailing of Concrete Reinforcement."
6. ACI 318 "Building Code Requirements for Reinforced Concrete."

2.1 Materials:

- A. Under Slab Vapor Retarder: Stego Industries LLC, 877-464-7834, internet www.stegoindustries.com high density polyethylene Stego Wrap (10 mil) Vapor Barrier meeting or exceeding ASTM E1745 performance criteria for Class C vapor retarders.
1. Seam Tape: High density polyethylene tape with pressure sensitive adhesive.
 2. Pipe boots: Shop or site fabricated from vapor retarder material and seam tape.

B. Concrete:

1. Portland Cement: ASTM C150, Type I
2. Aggregate: ASTM C33.
3. Water: Clean and potable.
4. Reinforcement: When required, comply with drawings reinforcement requirements.
5. Compressive Strength: Minimum 3000 psi at 28 days.
6. Admixtures: All admixtures shall be approved by the Tenant's Construction Manager prior to placement in the concrete mix.

- C. Topping Concrete: When required to suit installation conditions, Ardex Diamo-Top of Ardex Engineered Cements (888) 512-7339, internet www.ardex.com
1. ULTRAFLOAR ARDEX DIAMA-TOP, self-leveling concrete repair material.
 2. Any pinholes that need to be filled shall be filled with ARDEX DIAMA-FILL filling compound for polished concrete, concrete terrazzo and other cementitious wear surfaces applied at the appropriate time during the polishing process.
 3. The primer for areas to receive ARDEX DIAMA-TOP will be ARDEX EP 2000 Substrate Preparation Epoxy.
 4. Installation shall be performed by factory-trained professional applicators in strict accordance with manufacturer's installation instructions.

3.1 Installation

- A. Vapor Retarder: Place, protect and repair vapor retarder sheets in accordance with ASTM E1643 and manufacturer's installation instructions.
1. Provide a single layer of vapor retarder material over level compacted slab base.
 2. Lap joints and seams 6 inches and seal with seam tape.
 3. Seal all penetrations and repair damaged areas before concrete placement.

- B. Reinforcement Place and inspect all reinforcing steel before concrete is placed.

C. Concrete Placement:

1. Place cast-in-place concrete in accordance with ACI 301 and ACI 305R and 306R recommended practices for hot weather and cold weather concreting. Do not place concrete when temperature is below 40 degrees F.
2. Wet cure concrete in accordance with ACI 301, using moist curing or moisture-retaining covers

- D. Finish: Except where additional floor finish is scheduled, provide a smooth steel trowel finish.

1. Exposed concrete used as a finish floor surface shall have a smooth finished surface, uniform in texture and appearance and free of trowel marks and other defects affecting ease of maintenance.
2. Grind smooth surface defects as directed by the Tenant's Construction Manager.

- E. Testing: When required, comply with drawings and specification sections testing requirements.

- F. Topping Concrete: Prepare concrete floor slab substrate surfaces, prime substrate surfaces, mix, install and finish topping concrete in accordance with manufacturer's application instructions.

SECTION 03600 - RESINIOUS FLOORING

1.1 General: Section includes: Decorative resinous flooring systems.

1.2 System Description:

- A. Performance Requirements: Provide resinous flooring that has been manufactured and installed to maintain performance criteria stated by manufacturer without defects, damage or failure.
- B. Alternate Flooring Options as approved by CMG DM: AiFlooring TerraQuartz (color: salt & pepper) -or- AiFlooring TerraSeal (color: medium grey)

1.3 Quality Assurance:

- A. Qualifications:
1. Installer Qualifications: Installer experienced in performing work of this section who has specialized in installation of work similar to that required for this project.
 - a. Installer shall be an established company with at least 3 years experience in the installation of polymer floors.
 - b. Contractor shall demonstrate the ability to undertake and complete the required work and furnish documentation regarding the successful completion of projects of similar size and complexity.
 2. Manufacturer Qualifications: Manufacturer shall be capable of providing technical support, qualified applicators, and approval of application methods.
- B. Pre-installation Meetings: Conduct a pre-installation meeting to verify flooring system specifications (color, texture, etc.), substrate analysis, and manufacturer's installation instructions.
- C. Pre-installation Testing: Conduct pre-installation testing as follows:
1. Water Vapor Transmission: Calcium Chloride tests should be conducted to determine the amount of water vapor coming through the slab. The results should be compared to limitations set forth by the manufacturer.
 2. Core Sample Testing: (optional) Core samples should be taken and analyzed if the installer believes there to be a problem with the integrity of the substrate that may affect flooring system performance.

1.4 Delivery, Storage & Handling:

- A. Ordering: Comply with manufacturer's ordering procedures and allow for enough lead-time for custom blends so as not to interfere with construction schedules.
- B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- C. Storage and Protection: Store materials where they are protected from direct sunlight and harmful weather conditions. Meet manufacturer's condition for temperature, humidity, etc.

1.5 Project Conditions:

- A. Environmental Requirements/Conditions: Substrate and ambient air temperatures shall be in accordance with manufacturer's requirements.
- B. Temperature Requirements: Maintain air temperature in spaces where products will be installed for time period before, during and after installation as recommended by manufacturer.

Consultant:

R/A

Red Architecture

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EPL002

Contents:

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G010

<p>2.1 Materials:</p> <p>A. Resinous Flooring: Manufacturer: aiflooring</p> <ol style="list-style-type: none"> Contact: 1218 West 41st Street, Suite B, Tulsa, Oklahoma 74107. Phone: 918-445-0627 <p>2.1 Flooring System:</p> <p>A. System Description: Clear, thin film system 18-22 mils thick with texture agent added for slip resistance.</p> <ol style="list-style-type: none"> TerraPrime: A 2 component, 100% solids clear polyamide-cured epoxy coating. TerraThane Satin: A 2 component, 90% solids polyurea clear finish coat. TerraGrip: A graded, plastic aggregate added to finish coat for slip resistance. <p>2.3 Product Substitutions:</p> <p>A. Substitutions: No substitutions permitted.</p> <p>2.4 Source Quality:</p> <p>A. Source Quality: Obtain resinous materials, including patching and leveling materials from a single manufacturer.</p> <p>3.1 Manufacturer's Instructions:</p> <p>A. Compliance: Comply with manufacturer's product data, including product technical data sheets and application instructions.</p> <p>3.2 Examination:</p> <p>A. Site Verifications of Conditions: Verify substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions.</p> <ol style="list-style-type: none"> Before applying materials, inspect surfaces to receive new materials and report any unsatisfactory conditions. Absence of any such report shall constitute installer's acceptance of surfaces as satisfactory for installing materials. <p>3.3 Preparation:</p> <p>A. Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.</p> <p>B. Surface Preparation:</p> <ol style="list-style-type: none"> Mechanical Cleaning: Concrete floor surfaces receiving polymer flooring systems shall be thoroughly cleaned and prepared by shotblasting and/or diamond grinding. Patching Damaged Substrate: Holes, voids, static cracks, and other substrate surface defects should be patched and repaired according to manufacturer's recommendations. Prepare and clean control joints well and fill with an appropriate elastomeric. <p>3.4 Installation:</p> <p>A. Resinous Flooring Installation: The following are abbreviated guidelines that should provide for basic application steps for the installation of the systems. Detailed instructions should be obtained from the manufacturer.</p> <ol style="list-style-type: none"> Patching: After substrate preparation, surface defects shall be patched according to manufacturer's recommendations. Priming: Apply aiflooring TerraPrime, 100% solids epoxy primer, at a rate of 125-150 square feet per gallon. Allow 6-12 hours (depending on temperatures) of cure before applying finish coat. Finish coat must be applied within 24 hours of TerraPrime application. Finish Coat: Apply aiflooring TerraThane Satin, 90% solids polyurea topcoat, at a rate of 200 square feet per gallon. TerraGrip should be added to the TerraThane mix at a rate of 1 pint per 3 gallon kit for slip resistance. Note that TerraThane Satin must be metered out by notched squeegee prior to rolling. <p>B. Cleaning: Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance. Remove construction debris from project site and legally dispose of debris.</p> <p>3.5 Protection:</p> <p>A. Protection: Protect installed product and finish surfaces from damage during construction.</p>	<p>3.1 Installation</p> <p>A. Surface Conditions</p> <ol style="list-style-type: none"> Examine substrate, with installer present, for conditions affecting performance of finish. Correct conditions detrimental to timely and proper work. Do not proceed until unsatisfactory conditions are corrected. Verify that base slab meets finish and surface profile requirements in Division 3 Section "Cast-In-Place Concrete," and Project Conditions above. Prior to application, verify that floor surfaces are free of construction latents. <p>B. Application</p> <p>The following RetroPlate process will be followed as listed below:</p> <p>A concrete grinding machine must be used. Please proceed accordingly. The process is as follows:</p> <ol style="list-style-type: none"> Floors should be started using 50, 80 or 100 grit diamond pucks depending on the condition of the slab. Clean the floor using automatic scrubber or comparable. Grind floor using 200 grit resin diamonds. Clean the floor using automatic scrubber or comparable. Apply RetroPlate 99 to floor at 200 sq. ft. per gallon, scrubbing product into the floor and allowing product to soak until turning slick. If it becomes sticky, apply water to the surface as necessary, leaving the product on the floor for at least 60 minutes. Grind floor using 400 grit resin diamonds. Clean the floor using automatic scrubber or comparable. Clean and remove any excess RetroPlate. Let the floor dry overnight. Continue the polishing process using 800 grit resin diamonds. Clean the floor using automatic scrubber or comparable. Alternately, depending on slab condition, grind floor using 1200-1500 grit resin diamonds. Clean the floor using automatic scrubber or comparable. The same process will be used for new floors as well as rehab floors. Floor prep for the rehab floors will be separate. Apply an even coat of RetroGuard Sealer with a brush, roller, or low-pressure sprayer, and when surface is dry, burnish the floor with a black burnishing pad. Apply a second coat of RetroGuard one hour after the initial application, and again burnish the floor with a black burnishing pad. Do not walk on surface for 12 hours, and do not introduce any water or moisture for at least 48 hours, allowing for proper drying and setting of RetroPlate and RetroGuard. Water will minimize the sealing properties of RetroPlate and RetroGuard. <p>C. Start any of the floor finish applications in presence of manufacturer's technical representative.</p> <p>D. Sealing, Hardening and Polishing of Concrete Surface</p> <ol style="list-style-type: none"> Concrete must be in place a minimum of 28 days or as directed by the manufacturer before application can begin. Application is to take place at least 10 days to the prior to racking and other in-store accessory installation, thus providing a complete, uninhibited concrete slab for application. Only a certified applicator shall apply RetroPlate 99. Procedures must be followed as recommended by the product manufacturer and as required to match approved test sample. Achieve waterproofing, hardening, dust-proofing, and abrasion resistance of the surface without changing the natural appearance of the concrete, except for the sheen. Polish to a level 2 shine. <p>E. Workmanship and Cleaning</p> <ol style="list-style-type: none"> The premises shall be kept clean and free of debris at all times. Remove spatter from adjoining surfaces, as necessary. Repair damages to surface caused by cleaning operations. Remove debris from jobsite <ol style="list-style-type: none"> Dispose of materials in separate, closed containers in accordance with local regulations. 	<p>H. Accessories</p> <ol style="list-style-type: none"> Reinforcing bars: ASTM A615, Grade 60, deformed billet steel bars of sizes indicated. Wall weeps: Dur-O-Wal D/A 1006 "Cell Vent", clear flexible polypropylene co-polymer. Compressible joint material: Dur-O-Wal "Rapid Soft-Joint" D/A 2010. Bond breaker strips: ASTM D226 No. 15 asphalt saturated roofing felt. Cleaning agents: <ol style="list-style-type: none"> Face Brick and CMU: ProSoCo, Inc., "Sure Klean New Masonry Cleaners." ACMU: ProSoCo, Inc., "Sure Klean Burnished Custom Masonry Cleaner." Expansion/Control joint sealants: Polyurethane-based, elastomeric joint sealant complying with ASTM C920 and Section 07900 requirements. Color matched to adjacent surfaces. <p>3.1 Installation</p> <p>A. Preparation</p> <ol style="list-style-type: none"> Wet absorbent face brick masonry units requiring wetting, in accordance with BIA recommendations. Lay concrete masonry units dry. Establish, lines, levels and coursing. Ensure ties, anchors and flashing are correctly installed Mix mortar cementitious materials and aggregate in a mechanical mixer. Add water in amount to provide satisfactory workable consistency of mortar. Retemper mortar as required within two hours of mixing to replace water lost be evaporation. Discard mortar after two and one-half hours of initial mixing. Do not use mortar after it has started to set. <p>B. Installation - General:</p> <ol style="list-style-type: none"> Build walls and other masonry construction to the full thickness shown. Build single wythe walls to the actual thickness of the masonry units, using units of nominal thickness shown. Cut masonry units using motor-driven masonry saws to provide clean, sharp edges. Cut units to fit adjoining work neatly. Provide 100% solid units where cores would be exposed. Cold weather construction, hot weather construction, and masonry construction tolerances: Comply with unit masonry standard ACI 530.1/ASCE 6/TMS 602 requirements. <p>C. Laying Masonry</p> <ol style="list-style-type: none"> Layout walls in advance to ensure accurate spacing of surface bond patterns, with uniform joint widths, and to properly locate openings, movement type joints, returns and offsets. Do not use less than half-size units at corners, jamps and other locations. Lay up walls plumb and true to comply with ACI 530.1 tolerances. Provide square corners and angles, except as otherwise indicated, with courses level, accurately spaced and coordinated with other work. Pattern bond: Running bond. Do not use units with less than 4" of horizontal face dimensions at corners or jamps. Lay hollow CMU/ACMU with full mortar coverage on horizontal and vertical face shells. Bed CMU webs in mortar in starting courses. Maintain uniform 3/8" joint widths. Lay face brick and solid CMU/ACMU with completely filled bed and head joints. Do not slush head joints. Maintain uniform 3/8" joint widths. Compress and cut joints flush for masonry walls below grade or covered by other materials. Tool joints in all exposed masonry work to a concave joint. Provide interlocking masonry build in each course at corners and intersecting walls. As the work progresses, build in masonry accessories and related items. Fill in solidly with masonry around built-in items. <ol style="list-style-type: none"> Bed hollow metal frame anchors in mortar and fill space between hollow metal frames and masonry solid with fine mortar grout. Provide solid masonry bearing for all lintels, beams, joists, plates and load-bearing members. Take particular care to embed all conduits and pipes within concrete masonry without fracturing exposed shells and to fit units around switch, receptacle and other boxes set in walls. Where electric conduit, outlets, switch boxes and similar items occur, grind and cut units before building in services. Install anchors, plates and related work built into masonry work. Install reinforcing steel and concrete fill where indicated. Comply with drawing details. Horizontal joint reinforcing: Provide continuous joint reinforcing at all concrete masonry walls as follows: <ol style="list-style-type: none"> In every second block course, 16" on center vertically, full height of wall and every block course where shown on the drawings. Lap reinforcement a full width at the corners and at intersections or use special fabricated sections. Fully embed side rods in mortar. Anchoring masonry work: Provide anchoring devices of the type indicated or required. Provide vertical expansion, control and isolation joints in masonry where indicated. <ol style="list-style-type: none"> When not indicated, at maximum 30'-0" on center. Locate control joints at points of natural weakness in masonry and acceptable to Architect. Joint sealant color shall match masonry materials sealed. Lintels: Install loose steel lintels furnished under structural steel work where shown. Set lintels in full bed of mortar. Flashing and weeps: <ol style="list-style-type: none"> Install concealed through wall masonry flashing at all wall sills, masonry openings in exterior walls with masonry above head, over all horizontal steel members built into masonry and elsewhere as indicated. Provide "drainage wall system" masonry construction. Provide end dams and positive slope to drain. Extend flashing vertically at least 8" and built into or anchor to back-up with a termination bar for a complete watertight installation. Flexible Membrane Flashing: <ol style="list-style-type: none"> Install membrane flashing in accordance with manufacturer's installation instructions. Fully adhere flashing to substrate. Lap flashing joints a minimum of 6", seal and roll with a hand roller. Trim bottom edge 1/4" back from exposed face of masonry. Seal edges, seams, cuts and penetrations with manufacturer's recommended mastic. Install weeps in head joints of final course of exterior masonry wythe above flashing. Space weeps maximum of 24" on center horizontally and located to avoid door openings. Install weeps at head joints with outside face of weep material held 1/8" from the finish face of masonry unit. Install compressible joint material at lintels and horizontal steel members. Build in joint fillers and seal with elastomeric joint sealant. <p>D. Masonry Veneer Walls:</p> <ol style="list-style-type: none"> Metal framed walls: Tie exterior masonry veneer wythe to back-up wall with individual metal ties screwed to metal stud framing. Space ties 16" on center vertically and horizontally. Maintain veneer wall cavity free of mortar droppings during masonry installation. <p>E. Parging:</p> <ol style="list-style-type: none"> Dampen masonry walls prior to parging. Scarify each parging coat to ensure full bond to subsequent coat. Parge masonry walls in two uniform coats of mortar to a total thickness of 3/4 inch (19mm). Steel trowel surface smooth abs flat with a maximum surface variation of 1/8 inch per foot (1mm/meter). <p>F. Architectural Concrete Masonry Units: Install ACMU in accordance with the manufacturer's installation instructions and the following:</p> <ol style="list-style-type: none"> Draw ACMU from more than one pallet at a time during installation. <p>G. Reinforced Concrete Masonry</p> <ol style="list-style-type: none"> Reinforce and fill CMU/ACMU wall and column masonry where indicated. Fill all cores solid with concrete fill. Comply with NCMA TEK Bulletins 3-2, 3-3A and 14-2 recommendations. <ol style="list-style-type: none"> Comply with drawing details for reinforcing steel size and spacing. Install bond beams where indicated. Reinforce and fill units solid with concrete fill. Comply with drawing details for reinforcing steel size and spacing. <p>H. Repair, Pointing and Cleaning</p> <ol style="list-style-type: none"> In process cleaning: Wipe off excess mortar as the work progresses. Dry brush with bristle brushes exposed masonry at the end of each day's work. Remove mortar spatters and joint ridges. Clean all exposed masonry. Cleaning agents subject to Architect's approval. Before applying any cleaning agent to the entire wall, clean a sample wall area of approximately 20 square feet in a location acceptable to the Architect. Do not proceed with final cleaning until the sample area has been allowed to dry a minimum of 3 days and the test area cleaning approved. Protect all windows, doors, louvers, metal lintels and other corrodible parts. Damaged materials and work replaced at Contractor's expense. Dry clean exposed surfaces to remove large particles of mortar using hardwood wood paddles and scrapers. Metal tools not acceptable. Presoak exposed masonry surfaces by saturating with water and flush off loose
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ARCHITECTURAL SPECIFICATIONS

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3.1 Installation: Comply with the Architectural Drawing details and the following:			2. Installer Qualifications: Performed by the system manufacturer or an applicator trained and approved by the system manufacturer. During application, the work shall be inspected by system manufacturer's representative.	C. Store weather barrier materials as recommended by weather barrier manufacturer.
A. Exposed Fasteners: 1. Flat Metal Panels: Provide 18" vertical and horizontal pattern or spaced equally if 18" pattern does not finish evenly. Exposed fasteners shall remain unpainted in natural factory supplied finish. 2. Diamond Plate: Provide counter sunk fasteners at perimeter of panels at 2'-0" on center maximum as well as fully adhering to surface.	A. Install finish carpentry and millwork products plumb, level, true and straight with no distortion. Shim as required using concealed shims. Install to a tolerance of 1/8" in 8'-0" for plumb and level (including countertops) and with 1/16" maximum offset in flush adjoining surfaces, 1/8" maximum offsets in revealed adjoining surfaces. 1. Scribe and cut finish carpentry and millwork products to fit adjoining work. 2. Anchor finish carpentry and millwork items to built-in place blocking, furnished under Section 06100, or directly attach to substrate framing. Secure to grounds, blocking and nailers with countersunk, concealed fasteners and blind nailing as required for a complete installation. 3. For installation of prefinished millwork wall panels, use finish nails for exposed nailing, installed with pneumatic nailer as per the following guidelines: a. Nailer to be set for countersunk head approximately 1/8" on the face. b. Use 16 ga straight finish nails in 2" length c. Provide "dab" of construction adhesive on backside of panels at regular intervals. d. Random placement preferred, do NOT group nails together. e. No nails closer than 2" from any edge. f. All nails to be no greater than 16-18" apart in any direction. 4. Touch-up shop finished materials marred or damaged during delivery, storage and installation with custom blended polyurethane to equal Minwax "Wipe on Poly".			
B. Stainless Steel: 1. Wall: a. Clean stainless steel panel with mineral spirits. b. Install stainless steel panels with Henry 117 oil based adhesive applied to wall with 1/8" notch tooth trowel. c. Trim seams as indicated on the Drawings. No exposed fasteners.	B. Install casework without distortion so that doors and drawers will fit openings properly and be accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation.			
C. Diamond Plate: 1. Wall: Mount over plywood substrate w/ flush exposed fasteners. 2. Floor: Provide continuous bead of silicone sealant to back side perimeter of plate prior to installation. 3. Mount with exposed fasteners. Provide continuous bead of silicone sealant to perimeter of plate after installation.	C. Install plastic laminate countertops, shelving and trim. Provide work level, true to alignment, accurately fit to wall conditions and securely fastened to base units and other support systems as indicated.			
D. Patio Railing System: 1. Railing posts shall be set 6" deep into a core drilled hole, 4"-6" diameter 2. Railing posts shall be grouted in using non gypsum quick set grout. 3. Railing posts shall be set in grout plumb and level, with a tolerance of 1/8" in 4 feet.				
E. Hand-inspect all joints and edges of installed metal materials. Unless otherwise indicated, fit exposed connections accurately together to form tight hairline joints. Grind and ease exposed joints, and edges smooth and free of burrs.				
DIVISION 6 - WOOD AND PLASTICS	SECTION 06100 - ROUGH CARPENTRY			
1.1 General: Provide rough carpentry work as shown and specified.	2.1 Materials: A. Manufacturer: Marlite, (330) 343-6621, internet www.marlite.com, Email: info@marlite.com B. Panel System: "P6" Per Finish Schedule, Series: Standard FRP - "Marlite Class 1/A" Fiberglass Reinforced Polyester (FRP) Panels, 3/32" thick, 48" wide x full height required. Color: P100 White, Class A, pebbled matte surface texture. USDA approved for incidental food contact. 1. Panel trim: Extruded PVC, color matching panel color. Provide 1/2" x 1/2" inside corners, edge trim, and division moldings as required to complete the installation. a. Inside Corner - M350 b. Outside Corner - M360 c. Division - M365 d. Edge - M370 2. Panel trim: Stainless Steel, color matching panel color. Provide 1-1/2" x 1-1/2" outside corners as required to complete the installation. 3. Sealant: Marlite "Silicone Sealant", white gunnable silicone sealant. 4. Panel adhesive: Marlite "C-551" water-based construction adhesive for panel application over porous surfaces. C. Panel System: "P2" Per Finish Schedule, Series: Standard FRP - "Marlite Class 1/A" Fiberglass Reinforced Polyester (FRP) Panels, 3/32" thick, 48" wide x full height required. Color: S100G White, smooth matte surface texture. USDA approved for incidental food contact. 1. Panel trim: Extruded PVC, color matching panel color. Provide division moldings as required to complete the installation. a. Edge - M370 2. Sealant: Marlite "Silicone Sealant", white gunnable silicone sealant. 3. Panel adhesive: Marlite "C-551" water-based construction adhesive for panel application over porous surfaces. D. Alternate panel spec: Color: S100 S/2/S White, smooth matte surface texture			
A. Lumber: Factory grade-marked, dressed, seasoned dimension lumber, S4S, air-dried, maximum 19% moisture content complying with PS-20, dimensions indicated. 1. Blocking, nailers and similar members: Standard Grade Western Dimension Lumber or Southern Pine species. a. Provide preservative treated lumber, where indicated.				
B. Plywood: Factory grade-marked, complying with PS-1, square edge, 5/8" thick. 1. APA-RATED SHEATHING EXP1. a. Provide Exterior Grade (EXT) plywood, where indicated. b. Provide fire-retardant treated plywood, where required by Building Code.				
C. Oriented Strand Board (OSB): Factory grade-marked, complying with PS-2, square edge, 5/8" thick				
2.2 Wood Treatment:				
A. Preservative Treatment: Comply with applicable requirements of AWWA Standards C2 (Lumber). 1. Pressure preservative treat lumber with water-borne preservatives, acceptable to authorities having jurisdiction, to a minimum retention of 0.25 pcf. 2. Treat wood blocking, nailers and similar members in connection with roofing and flashing. 3. Treat wood plates, blocking, furring and similar concealed members in contact with masonry or concrete.				
B. Fire-Retardant Treatment: Comply with applicable requirements of AWWA Standards C27 (Plywood). Identify "fire-retardant-treated plywood" with appropriate UL classification marking. 1. Treated materials shall meet "Interior Type A" FR-S ratings of not more than 25 for flame spread, smoke developed and fuel contributed when tested in accordance with UL 723 or ASTM E84, with no increase in flame spread and evidence of significant progressive combustion upon continuation of test for additional 30 minutes.				
C. Kiln-dry all treated lumber and plywood materials after treatment to maximum 15% moisture content.				
3.1 Installation:				
A. Lumber: Provide wood blocking, nailers and similar members where shown and where required for attachment of other work and surface applied items. Attach to substrate as required to support applied loading. 1. Use only sound, seasoned materials of longest practical lengths and sizes to minimize joints. 2. Use materials free of warp. Make tight connections between members.				
SECTION 06210 - FINISH CARPENTRY AND MILLWORK				
1.1 General: Provide finish carpentry and millwork as shown and specified.				
A. Standards: Materials and construction shall conform to the following: 1. AWI "Architectural Woodwork Quality Standards - 1999."				
B. Doors and door hardware: Install all door hardware furnished under Division 8 specification Sections.				
C. Submit shop drawings for designated millwork. 1. Include complete details, materials lists and drawings showing fabrication of typical units, unit assemblies, locations and installation details. 2. List proposed cabinet hardware to suit indicated unit use or function. 3. Identify materials required to complete work ready for installation. 4. Obtain shop drawing approval before starting fabrication.				
2.1 Materials:				
A. Plywood: AWI Section 200 1. Concealed use substrates: CDX, D-3 Paint Grade hardwood plywood, with aspen veneer core, 5/8" thick. (OSB is an alternative as allowed by Chipotle CM) 2. Exposed to view finishes: Random plank matched or slip and swing matched spalted maple veneer on 3/4" baltic birch core, with mill option sound grade hardwood backer. Spalted maple grain to run horizontally. 5 sheen matte clear waterborne finish. Panels to be provided at 47" height, with widths varying from 24" to 95".				
B. Millwork: Materials and construction as detailed on the Drawings.				
C. Fabrication: 1. Millwork design and fabrication details shown on the drawings indicate design intent. Unless otherwise indicated, provide manufacturer's standard fabrication methods. Indicate all proposed variations from the drawing design and fabrication details on shop drawings. 2. Fabricate millwork in accordance with AWI "Custom Grade" requirements. Where details are not shown, comply with applicable Quality Standards or with alternate details acceptable to Architect as fabricator's option 3. Fabricate finished work properly framed, closely fit and accurately set to required lines and levels and rigidly secured in place. 4. Fabricate work straight, plumb, level and in true alignment; neatly and accurately fit, scribed and thoroughly secured. Plane and sand miters and other joints. Ease all square edges. Provide millwork clean and free from warp, twist, open joints and other defects. 5. Provide finished woodwork dressed and sanded free from machine and tool marks, abrasions, raised grain or other defects on surfaces exposed to view in finished work.				
D. Finish: Sayerlack Hydroplus Waterborne Clear, 5 sheen for spalted veneer				
3.1 Installation: Comply with the Architectural Drawing details and the following:			2. Environmental conditions: Comply with manufacturer's requirements. Do not install materials during wet or freezing weather.	
A. Manufacturer: STC Corp., P: (800) 221-2397, internet www.stccorp.com Strategic Accounts Manager: Ray Redmond, P: (616) 437-2230, rredmond@stccorp.com				
B. Exterior insulation and finish system: Sto Class PB "StoTherm CI" EIFS. 1. Air/Moisture barrier: Sto Guard system. a. Sto RapidGuard for rough opening protection, sheathing joints and inside and outside corners. b. Sto Guard Mesh: Coated glass fiber fabric reinforcing mesh. c. Sto Gold Coat: Waterproof Fluid Applied Air/Moisture Barrier 2. Primer/adhesive and base coat: Sto Primer/Adhesive-B, one-component, polymer modified, cement -based factory blended primer/adhesive used to attach insulation board to prepared sheathing substrates and as a base coat in Essence claddings. 3. Insulation board: ASTM C578 Type 1, nominal 1.0 lb/ft ³ expanded polystyrene meeting EIMA Guideline specifications for EPS insulation board. 4. Finish coating: Sto Essence DPR, ready-mixed 100% acrylic-based, textured wall coating. a. Medium/Fine Sand Finish. b. Color as indicated on the Architectural drawings from manufacturer's full color range or match custom color. 5. System warranty: 10 year labor and material.				
C. Portland cement: ASTM C150, Type I or II, white or gray in color.				
D. Water: Clean, potable and free of foreign matter.				
E. Reinforcing mesh: Sto open-weave glass fiber fabric with alkaline resistant coating. 1. Standard mesh: Sto Mesh, nominal 4.5 oz/yd ² fabric. 2. Ultra-High impact mesh: Sto Armor Mat, nominal 15 oz/yd ² ultra-high impact fabric. 3. Specialty mesh: a. Sto Detail Mesh, nominal 4.2 oz/yd ² flexible, symmetrical, interlaced glass fiber fabric. b. Sto Corner Mat, nominal 7.8 oz/yd ² pre-creased, heavy-duty, glass fiber fabric.				
F. Joint sealants: StoSeal STPE Sealant complying with ASTM C920 and Section 07900 requirements. 1. Adhesion: Evaluated in accordance with ASTM C1382. 2. Color: Matching EIFS finish coating color, and visually acceptable to the Architect.				
G. Accessories: Provide plastic stops and trim where indicated. Materials shall be compatible with EIFS materials and acceptable to EIFS manufacturer. 1. Starter Track: Rigid PVC plastic track with weepholes and drip edge.				
3.1 Mixing				
A. Mix materials in accordance with manufacturer's published instructions. 1. Mix with a clean, rust-free high speed mixer to a uniform consistency. 2. No rapid binder, anti-freeze or accelerator additives permitted.				
4.1 Installation				
A. Preparation: 1. Coordinate installation of roofing membrane, windows, doors and other wall penetrations to provide a continuous exterior wall air/moisture barrier. 2. Coordinate installation of windows, doors and window and door flashing to provide continuous exterior wall air/moisture barrier. 3. Install copings and joint sealants immediately after installation of the EIFS, when EIFS coatings are dry.				
B. Installation: Install Sto Guard air/moisture barrier system and exterior insulation and finish system (EIFS) in strict accordance with manufacturer's installation instructions, complying with governing regulations and industry standards applicable to the work. 1. Back wrap exposed board edges with mesh. 2. Provide double wrap or corner mat reinforcing at all inside and outside corners. 3. Provide expansion joints in accordance with manufacturer's recommendations for type of substrates and systems required, and visually acceptable to the Architect. 4. Provide drainable starter track horizontal edge trim as base of wall, above windows and doors openings and beneath windows with concealed flashing.				
C. Insulation and adhesive application: 1. Install insulation board with long edge horizontal using running bond pattern. Off set insulation joints with substrate joints. Stagger joints and interlock joints at corners. 2. Apply adhesive to insulation board with a stainless steel trowel notched trowel, providing vertical uniform ribbons of adhesive when board is installed. Mount insulation board on substrate. Level, align and tamp insulation in place. Provide uniform contact and bond with joints tightly butted. Rasp edges and high areas as required to produce a level, plane surface.				
D. Base coat and reinforcing mesh application: 1. Apply detail mesh at corners of windows, doors, and all penetrations through the EIFS. 2. Standard mesh: Apply base coat over insulation board to a uniform 1/8 inch thickness, including high impact mesh where indicated. Embed standard reinforcing mesh into wet adhesive, lap edges at seams. Smooth surface until mesh is not visible. Allow to base coat to dry. 3. Ultra-High impact mesh: Apply base coat over insulation board to a uniform 1/8 inch thickness. Fully embed ultra-high impact reinforcing mesh into wet adhesive, butt edges at seams. Smooth surface until mesh is not visible. Allow to base coat to dry. Locate at 4'-0" wide perimeter of the rear service door to 6'-0" above grade and as indicated on Architectural drawings.				
E. Apply finish coating continuously in one operation to the entire wall surface Provide a uniform finished appearance. Level and texture to the specified finish texture.				
F. Install joint sealants at perimeter joints and joints within the system using elastomeric joint sealants, in accordance with drawing details and sealant manufacturer's recommendations.				
SECTION 07250 - WEATHER BARRIERS				
1.1 Section Includes				
A. Weather barrier membrane B. Seam Tape C. Flashing D. Fasteners				
1.2 References				
A. ASTM International 1. ASTM C920, Standard Specification for Elastomeric Joint Sealants 2. ASTM C1193, Standard Guide for Use of Joint Sealants 3. ASTM D882, Test Method for Tensile Properties of Thin Plastic Sheeting 4. ASTM D1117, Standard Guide for Evaluating Non-woven Fabrics 5. ASTM E84; Test Method for Surface Burning Characteristics of Building Materials 6. ASTM E96; Test Method for Water Vapor Transmission of Materials 7. ASTM E1677; Specification for Air Retarder Material or System for Framed Building Walls. 8. ASTM E2178; Test Method for Air Permeance of Building Materials B. AATCC - American Association of Textile Chemists and Colorists 1. Test Method 127 Water Resistance: Hydrostatic Pressure Test C. TAPPI 1. Test Method T-410; Grams or Paper and Paperboard (Weight per Unit Area) 2. Test Method T-460; Air Resistance (Gurley Hill Method)				
1.3 Quality Assurance				
A. Qualifications 1. Installer shall have experience with installation of commercial weather barrier assemblies under similar conditions. 2. Installation shall be in accordance with weather barrier manufacturer's installation guidelines and recommendations. 3. Source Limitations: Provide commercial weather barrier and accessory materials produced by single manufacturer.				
1.4 Delivery, Storage and Handling				
A. Refer to Section 01400 Quality Requirements. B. Deliver weather barrier materials and components in manufacturer's original, unopened, undamaged containers with identification labels intact.				
1.5 Scheduling				
A. Review requirements for sequencing of installation of weather barrier assembly with installation of windows, doors, louvers and flashings to provide a weather-tight barrier assembly. B. Schedule installation of weather barrier materials and exterior cladding within 9 months of weather barrier assembly installation.				
2.1 Manufacturer				
A. DuPont Building Innovations; 4417 Lancaster Pike, Chestnut Run Plaza 721, Wilmington, D19805; 1.800.447TYVEK (8-9835); http://constructiontyvek.com Alternate: STO Corp., P: (800) 221-2397, internet www.stccorp.com				
2.2 Materials				
A. Basis of Design: Hi-performance, spunbonded polyolefin, non-woven, non perforated, weather barrier is based upon DuPont Tyvek CommercialWrap and related assembly components. Alternate: StoGuard System, See Section 07240 B. Performance Characteristics: 1. Air Penetration: 0.001 CFM/feet squared at 75 Pa, when tested in accordance with ASTM E2178. Type I per ASTM E1677. 2. Water Vapor Transmission: 28 perms, when tested in accordance with ASTM E96 Method B. 3. Water Penetration Resistance: 280 cm when tested in accordance with AATCC Test Method 127. 4. Basis Weight: 2.7 oz/yard squared, when tested in accordance with TAPPI Test Method T-410. 5. Air Resistance: Air infiltration at >1500 seconds, when tested in accordance with TAPPI Test Method T-460. 6. Tensile Strength: 38/35 lbs/inch, when tested in accordance with ASTM D882, Method A. 7. Tear Resistance: 12/10 lbs, when tested in accordance with ASTM D1117. 8. Surface Burning Characteristics: Class A, when tested in accordance with ASTM E 84. Flame Spread: 10, Smoke Developed: 10.				
2.3 Accessories				
A. Seam Tape: 3 inch wide, DuPont Tyvek Tape for commercial applications. B. Fasteners: 1. For steel frame construction - DuPont Tyvek Wrap Cap Screws, as manufactured by DuPont Building Innovations: 1-5/8" rust resistant screw with 2-inch diameter plastic cap or manufacturer approved 1-1/4" or 2" metal gasketed washer. 2. For wood frame construction - Tyvek Wrap Caps, as manufactured by DuPont Building Innovations: #4 nails with large 1-inch plastic cap fasteners. 3. For masonry construction - masonry tap-con fasteners with Tyvek Wrap Caps as manufactured by DuPont Building Innovations: 2 inch diameter plastic cap fasteners.				
C. Adhesives: 1. Provide adhesive recommended by weather barrier manufacturer. 2. Products: a. Liquid Nails LN-109 b. Polyglaze SM 5700 c. Denso Butyl Liquid d. 3M High Strength 90 e. SIA 665 f. Adhesives recommended by the weather barrier manufacturer.				
D. Primers: 1. Provide flashing manufacturer recommended primer to assist in adhesion between substrate and flashing. 2. Product: a. 3M High Strength 90 b. Denso Butyl Spray c. SIA 655 d. Permagrip 105 e. ITW TACC Sta' Put SPH f. Primers recommended by the flashing manufacturer.				
E. Flashing: 1. DuPont FlexWrap, as manufactured by DuPont Building Innovations: flexible membrane flashing materials for window openings and penetrations. 2. DuPont StraightFlash, as manufactured by DuPont Building Innovations: straight flashing membrane materials for flashing windows and doors and sealing penetrations such as masonry ties, etc. 3. DuPont StraightFlash VF, as manufactured by DuPont Building Innovations: dual-sided straight flashing membrane materials for brick mold and non-flanged windows and doors.				
3.1 Examination				
A. Verify substrate and surface conditions are in accordance with weather barrier manufacturer recommended tolerances prior to installation of weather barrier and accessories.				
3.2 Installation - Weather Barrier				
A. Install weather barrier per regional requirements in accordance with manufacturer recommendations. B. Install weather barrier prior to installation of windows and doors. C. Start weather barrier installation at a building corner, leaving 6-12 inches of weather barrier extended beyond corner to overlap. D. Install weather barrier in a horizontal manner starting at the lower portion of the wall surface with subsequent layers installed in a shingling manner to overlap lower layers. Maintain weather barrier plumb and level. E. Sill Plate Interface: Extend lower edge of weather barrier over sill plate interface 3-6 inches. Secure to foundation with elastomeric sealant as recommended by weather barrier manufacturer. F. Window and Door Openings: Extend weather barrier completely over openings. G. Overlap weather barrier 1. Exterior corners: minimum 12 inches. 2. Seams: minimum 6 inches. H. Weather barrier Attachment: 1. For steel or wood frame construction - Attach weather barrier to studs through exterior sheathing. Secure using weather barrier manufacturer recommended fasteners, space 12-18 inches vertically on center along stud line, and 24 inch on center, maximum horizontally. 2. For masonry construction - Attach weather barrier to masonry. Secure using weather barrier mfr recommended fasteners, spaced 12-18 inches vertically on center and 24 inches maximum horizontally. Weather barrier may be temporarily attached to masonry using recommended adhesive, placed in vertical strips spaced 24 inches o.c., when coordinated on the project site. I. Apply 4 inch by 7 inch piece of DuPont StraightFlash to weather barrier membrane prior to the installation cladding anchors.				
3.3 Seaming				
A. Seal seams of weather barrier with seam tape at all vertical and horizontal overlapping seams. B. Seal any tears or cuts as recommended by weather barrier manufacturer.				
3.4 Opening Preparation (for use with non-flanged windows - all cladding types)				
A. Flush cut weather barrier at edge of sheathing around full perimeter of opening. B. Cut a head flap at 45-degree angle in the weather barrier at window head to expose 8 inches of sheathing. Temporarily secure weather barrier flap away from sheathing with tape.				
3.5 Flashing (for use with non-flanged windows - all cladding types)				
A. Cut 9-inch wide DuPont FlexWrap a min of 12 inches longer than width of sill rough opening. Apply primer as required by mfr. B. Cover horizontal sill by aligning DuPont FlexWrap edge within side edge of sill. Adhere to rough opening across sill and up jambs a minimum of 6 inches. Secure flashing tightly into corners by working in along the sill before a adhering up the jambs. C. Fan DuPont FlexWrap at bottom corners onto face of wall. Firmly press into place. Mechanically fasten fanned edges. D. Apply				

SECTION 07-12 - ROOFING SYSTEM REPAIR

1.1 General: When penetration of the existing roofing system is required to accommodate new construction, perform necessary roofing system repair.

- A. Coordination: Before starting work, verify with the Tenant's Construction Manager and the Owner the following:
1. Existing roof system materials and installation methods.
 2. Repair work responsibilities and warranty requirements. To maintain original warranty, where provided use original roof contractor.
- B. Qualifications: Repair work shall be performed only by an experienced roofing installer approved or licensed by the existing roofing system materials manufacturer; with not less than five years of successful experience installing and repairing roofing systems similar to this projects existing roofing system.

2.1 Materials:

- A. Provide and install only materials approved and recommended by the roofing manufacturer for repairing the existing roofing system.

3.1 Installation:

- A. Preparation: Inspect roof surface conditions with roof manufacturer's representative to verify extent and location of any other repairs required to ensure a watertight roofing system upon completion of the repair work.
- B. Make necessary repairs. Match existing roof slope, insulation materials and roofing membrane materials, except as otherwise approved by the existing roofing system manufacturer to accommodate new construction and repair work.
- C. Install curb flashing furnished by mechanical and electrical trades for new roof top equipment.

SECTION 07420 - METAL WALL PANELS

1.1 General:

- A. Standards:
1. Furnish all labor, material, tools, equipment and services for all preformed fascia and wall panels as indicated, in accord with provisions of Contract Documents.
 2. Completely coordinate with work of all other trades.
 3. Although such work is not specifically indicated, furnish and install all supplementary or miscellaneous items, appurtenances and devices incidental to or necessary for a sound, secure and complete installation.
- B. Related work specified elsewhere:
1. Structural steel: Section 05100
 2. Steel joists: Section 05200 or 05400
 3. Flashing and sheet metal: Section 07600

1.2 Quality Assurance:

- A. Applicable standards:
1. SMACNA: "Architectural Sheet Metal Manual" Sheet Metal and Air Conditioning Contractors National Association, Inc.
 2. AISI: "Steel Construction Manual" American Institute of Steel Construction.
 3. AISI: "Cold Form Steel Design Manual: American Iron and Steel Institute.
 4. ASTM A792-83-AZ50: Specifications for steel sheet, aluminum-zinc alloy coated (galvanized) by the hot dip process, general requirements (Galvalume).
- B. Manufacturer's qualifications:
1. Manufacturer has a minimum of three years experience in manufacturing metal wall systems of this nature. Panels specified in this section shall be produced in a factory environment (not job site roll formed) with fixed base roll forming equipment assuring the highest level of quality control. A letter from the manufacturer certifying compliance will accompany the product material submittals.

1.3 Product Delivery, Storage and Handling

- A. Delivery: Deliver metal wall system to job site properly packaged to provide protection against transportation damage.
- B. Handling: Exercise extreme care in unloading, storing and erecting metal wall system to prevent bending, warping, twisting and surface damage.
- C. Storage: Store all materials and accessories above ground on well skidded platforms. Store under waterproof covering. Provide proper ventilation of metal wall system to prevent condensation build up between each panel or trim/ flashing component.

2.1 Materials

- A. Metal wall system profile:
1. Ribbed Panel
 - a. HWP wall panel by PAC-CLAD or similar to be approved by Chipotle
 2. Flush Panel, no reveal or ribs
- B. Metal wall system style:
1. Concealed fasteners
- C. Gauge: 24 gauge
- D. Substrate: Per Plans
- E. Finish: PVDF
- G. Color: Black, to be approved by Chipotle.
- H. Acceptable Manufacturer: PAC-CLAD or similar to be approved by Chipotle

3.1 Surface Conditions

- A. Examination:
1. Inspect installed work of other trades and verify that such work is complete to a point where this work may continue.
 2. Verify that installation may be made in accordance with approved shop drawings and manufacturer's instructions.

3.2 Installation

- A. Install metal wall system system so that it is weathertight, without waves, warps, buckles, fastening stresses or distortion.
- B. Install metal wall system in accordance with manufacturer's instructions and shop drawings.
- C. Provide concealed anchors at all panel attachment locations.
- D. Install panels plumb, level and straight with seams parallel, conforming to design as indicated.

3.3 Cleaning, Protection

- A. Dispose of excess materials and remove debris from site.
- B. Clean work in accordance with manufacturer's recommendations.
- C. Protect work against damage until final acceptance. Replace or repair to the satisfaction of the architect and work that becomes damaged prior to final acceptance.
- D. Touch up minor scratches and abrasions.

SECTION 07540 - THERMOPLASTIC MEMBRANE (PVC) ROOFING

1.1 General: Provide the thermoplastic membrane (PVC) roofing system as shown and specified.

- A. Standards: Materials and construction shall conform to following:
1. ASTM D5036 "Application of Adhered Poly(Vinyl Chloride) Sheet Roofing."
 2. FM 1-29 Loss Prevention Data Adhered or Mechanically Attached Single Ply Membrane Roof Systems."
 3. NRCA "Single-Ply Roofing Membrane."
 4. UL "790 - Tests for Fire Resistance of Roof Covering Materials."

- B. Installer Qualifications: An experienced roofing installer approved by roofing system manufacturer and with not less than five years of successful experience installing membrane roofing systems similar to those required for this project.

- C. Deliver, store and handle roof system materials in accordance with manufacturer's recommendations to avoid damage and deterioration.
1. Comply with manufacturer's recommendations for handling and protection during installation.

- D. Install roofing work only when weather conditions are in compliance with manufacturer's specific environmental requirements and conditions will permit work to be performed in accordance with manufacturer's recommendations and warranty requirements.
1. Protect adjacent materials and surfaces from damage and soiling during roofing system installation.
 2. Provide special protection on completed roofing work.
 3. Protect paving and structure walls adjacent to hoists before starting work.
 4. Do not overload the building structure with storage of materials or installation equipment on the substrate decking.

E. Warranty

1. Contractor and roof system installer shall jointly warrant roofing materials and installation for a period of two years from the date of Substantial Completion. Warranty shall include roofing membrane, flashing, roof insulation, roofing accessories and sheet metal work provided under Section 07600.
2. Manufacturer's warranty: Submit executed copy of roofing system manufacturer's 15 year total system warranty, including labor and materials for the entire roof system. Including perimeter edge metal, Section 07600 Flashing & Sheet Metal

2.1 Materials

- A. Manufacturer: Duro-Last Roofing, Inc, (800)248-0280, Austin Russell, austin.russell@holcim.com, www.duro-last.com
- a. Basis of Design Product Roofing System
 - a. Thermoplastic single ply membrane roofing system: DL Membrane (PVC) fully adhered, smooth surface, UL Class A fire-rated single ply membrane roofing system.
 - b. Thermoplastic fiber reinforced PVC membrane, not less than 40 mils (.040), complying with ASTM D4434 and membrane manufacturer's published physical properties.
- B. Comparable Alternate Roof Manufacturers:
1. Versico Roofing Systems, (480) 528-6923, Jeff Kelly, jeff.kelly@versico.com
 - a. VersiFlex PVC Adhered System
 2. Other comparable alternates can be considered when approved by Arch PM and Tenant DM/CM.
- C. The roof covering design must resist a wind load of 100 mph, Exposure C and shall resist impact damage based on results of tests based on the results of tests conducted in accordance with ASTM D 3746, ASTM D 4272, CGSB 37-GP-52M or FM 4470
1. Insulation cover board: Georgia-Pacific Corp. (800) 284-5347, internet www.gp.com, "Dens-Deck" nonstructural fiberglass- faced, silicone-treated gypsum core panels, 1/2" thickness.
 2. Roof insulation: Rigid closed cell polyisocyanurate boards approved by the membrane manufacturer; complying with ASTM C1289, Type II, minimum 20 psi compressive strength, aged R-value equal 5.6 per inch of thickness.
 - a. Provide a double layer installation. Minimum total R-value as indicated on plans.
 - b. Specified perimeter edge metal shall be compliant with International Building Code ANSI / SPRI ES-1, ER2 testing requirements.
 3. Flashing: Roof system manufacturer's standard sheet flashing of same material, type, and color as sheet membrane. Specified perimeter edge metal will be compliant with International Building Code ANSI / SPRI ES-1, RE2 testing requirements.
 4. Membrane Bonding Adhesive: Roof system manufacturer's standard membrane bonding adhesive.
 5. Insulation and Cover Board Adhesive: Dow Chemical Company, (888) 868-1183, internet www.flexibeproducts.com, "INSTA-STIK Professional Roof Insulation Adhesive", a single component, moisture cured polyurethane adhesive.
 6. Fasteners: Roof system manufacturer's standard fasteners for project conditions indicated.
 7. Accessories: Roof system manufacturer's recommended pourable sealers, preformed penetration flashing, preformed corner flashing, seam caulk, termination bars and other accessories required for substrate surfaces and installation conditions indicated.
 8. Traffic walkways: Duro-Last Roof Track II walkway pads.3.1 Installation

3.1 Installation

- A. Preparation:
1. Clean substrate surfaces of debris and other substances detrimental to roofing installation.
 2. Correct unsatisfactory conditions before starting roofing. Roof deck surface conditions shall comply with manufacturer's requirements and be acceptable to the roofing system installer.
- B. Installation:
1. General: Provide roofing system materials and installation complying with roofing system manufacturer's instructions and governing codes and regulations.
 - a. Mix and apply roof insulation and cover board adhesive in strict accordance with the adhesive manufacturer's installation instructions. Dispense adhesive at manufacturer's recommended application rate using approved dispensing equipment.
 2. Roof insulation.
 - a. Extend insulation full thickness over entire surface to be insulated. Cut and fit around obstructions; fill all voids with insulation. Provide saddles and tapered edges as required to provide positive proper drainage.
 - b. Install and secure in place with insulation adhesive, a double layer of insulation units of the required thickness. Run long joints of insulation in continuous straight lines, perpendicular to roof slope, with end joints staggered between rows. Stagger joints of each layer of insulation. Butt edges to moderate contact. Limit joints between adjacent units to maximum 1/4".
 3. Insulation cover board: Install and secure in place with insulation adhesive a single layer of insulation cover board on installed roof insulation. Secure cover board in accordance with membrane manufacturer's recommendations. Stagger joints with joints of roof insulation.
 4. Thermoplastic membrane: Comply with membrane manufacturer's instructions and recommendations for handling and installing single ply membrane roofing.
 - a. Unroll and position roofing sheet membrane without stretching. Align top sheet with pr-marked lines on bottom sheet. Allow membrane to "relax" for at least 30 minutes before adhering, splicing and flashing.
 - b. Adhere membrane to insulation cover board with bonding adhesive. Broom bonded membrane to achieve maximum contact.
 - c. Join membrane seams using approved heat welding equipment. Check all splices for voids and repair voids with heat gun and roller.
 - d. When required, mechanically fasten membrane at roof perimeter, curb flashing and similar penetrations in accordance with manufacturer's installation instructions.

SECTION 07600 - FLASHING AND SHEET METAL

General:

- A. Standards: Materials and construction shall conform to following:
1. SMACNA "Architectural sheet Metal Manual- 1993."
- B. Installation: Performed under Section 07540 work.

1.1 Pre-manufactured perimeter edge metal and accessories

Manufacturer: Duro-Last Roofing / Exceptional Metals, Inc, (800) 248-0280, Jason Dark, www.Duro-Last.com

- A. Duro-Last / Exceptional Metals Snap Coping made of 24-gauge galvalume, cover provided with Kynar architectural finish providing a 35 year finish warranty. Meets ANSI/SPRI ES-1 2003 method RE-2 testing requirements. (Color - Refer to Exterior Elevations)
- B. Duro-Last / Exceptional Metals Vinyl backed scupper. Scupper profile & size indicated Fig 1-20.

1.2 General: Miscellaneous sheet metal

- A. Standards: Materials and construction shall conform to following:
1. SMACNA "Architectural Sheet Metal Manual- 1993."
- B. Installation: Performed under Section 07540 work.

2.1 Materials:

- A. Galvanized steel: ASTM A653 commercial quality sheet steel with 0.2% copper, G90 hot-dip galvanized. Gage indicated.
 1. Scuppers: Minimum 16 gage.
 2. Coping/Wall caps: Minimum 18 gage.
- B. Aluminum sheet: ASTM B209 alloy 3003, temper as required for forming and performance. Thickness indicated.
 1. Conductor Boxes: Minimum 0.040" thickness.
 2. Downspouts: Minimum 0.025" thickness.
- C. Joint sealers: One-component silicone elastomeric joint sealant complying with ASTM C920. Color matched to sheet metal finish.

- D. Metal accessories: Provide sheet metal fasteners, clips, straps, anchoring devices and similar accessory units as required for installation of work, matching or compatible with material installed, non-corrosive, size and gage as required for performance and acceptable to the Architect.
- E. Fabrication: Shop fabricate sheet metal work to comply with profiles and sizes indicated and to comply with standard industry standards as shown by SMACNA in the "Architectural Sheet Metal Manual."
1. Conductor boxes: SMACNA Chapter 1 - Roof Drainage Systems. Profile and size indicated Fig 1-25.
 2. Scuppers: SMACNA Chapter 1 - Roof Drainage Systems. Profile and size indicated Fig 1-20.
 3. Downspouts: SMACNA Chapter 1 - Roof Drainage Systems. Profile and size indicated. Installation Fig. 1-31 with strap hanger Fig. 1-35.
 4. Formed coping/wall caps: SMACNA Chapter 3 - Copings. Design Fig 3-1. Profile and size indicated with Fig. 3-3 butt joints and concealed back-up plates. Install formed copings with continuous cleat fasteners similar to Fig 3-1 at exposed face and screw fasteners with washers space maximum 24" on center at roof side.

3.1 Installation:

- A. Preparation: Coordinate sheet metal work with other work for the correct sequencing of items which make up the entire roof system of weatherproofing and rain drainage:
- B. Installation: Comply with SMACNA "Architectural Sheet Metal Manual" recommendations, drawing details and approved shop drawings for installation of the work.
1. Anchor sheet metal items securely in place by methods indicated, providing for thermal expansion. Conceal fasteners and expansion provisions whenever possible. Install joint sealants where required.
 2. Set units true to lines and levels indicated. Install work with sealed laps, joints and seams that will be permanently watertight and weatherproof. Bed flanges of sheet metal work in thick coat of roofing cement or sealant compatible with roofing membrane.
 3. Separate sheet metal work from dissimilar metals and treated wood materials. Provide rosin-sized paper slip sheet over treated wood.
 4. Fabricate, support and anchor conductor boxes and downspouts to withstand thermal expansion, stresses and full loading by ice or water without damage, deterioration or leakage.

Section 07900 – JOINT SEALERS

1.1 General: Provide joint sealers as shown and specified.

- A. Standards: Comply with ASTM C 920 requirements.
- B. Application: Performed by skilled, experienced joint sealer applicators.

2.1 Materials:

- A. Poly urethane sealants:
1. Tremco Commercial Sealants (800) 321-7906, internet www.tremcosealants.com,
 - a. "Dymonic FC" One component, fast skinning, Low Modulus Polyurethane.
 - b. "Dymeric 240 FC" Multi Component, gun grade, chemically curing, printable fast setting polyurethane sealant.
 2. Sonneborn, (724) 756-9582, internet www.sonneborn.com
 - a. Color pack for polyurethane multi component, gun grade chemically curing sealant.
- B. Silicone Sealants:
1. General Electric Silicones, (800) 295-2392, internet www.gesilicones.com
 - a. "SCS1700 Sanitary – Mold/Mildew Resistant Silicone", one component 100% silicone, fungicidal based sealant.
 - b. "SCS2700 Silpruf Silicone" one component medium modulus, natural cure silicone all purpose sealant.
 - c. "Silglaze II SCS2800- Glazing Sealant" one component, 100% silicone based sealer.
 - d. "GE Paintable Silicone" one component paintable silicone.
 - e. "SCS1009 Silicone Sealant" one-component acetoxy silicone for general purpose sealing and bonding
 2. Dow Corning Silicones, (989)496-4000, www.dowcorning.com
 - a. "Dow 795" – one component, medium modulus, natural cure silicone.
- C. Firestopping Sealants: 3M Fire Protection Products, (800) 328-1687, internet www.3M.com/firstop
1. "3M Fire Barrier CP 25WB+ Caulk" or approved equal
- D. Joint backing: Non-absorptive, non-staining compressible, non-gassing, polyethylene foam backer rod compatible with joint sealants.

3.1 Installation:

- A. Preparation: Clean and prepare joints prior to installing sealers:
1. Wipe shipping oils from surfaces to be sealed. Remove protective films and/or install joint backer rod if joint is larger than ½" in width.
- B. Installation: Install joint sealant materials in strict accordance with manufacturer's installation instructions.
1. Apply sealants in a uniform, continuous bead without gaps or air pockets. Hand tool and finish all joints so that a smooth, small, lip free uniform line is created along the substrate being shot. Remove any excess materials from tooled edges and ends of joint.
 2. Install joint sealants to a depth no more than ½ the width of the joint.
 3. Install sealants by proven techniques that result in sealants directly contacting and fully wetting joint substrates, completely filling recesses provided for each joint configuration, and providing uniform, cross-sectional shapes and depths relative to joint widths which allow optimum sealant movement capability.
 4. Immediately, after sealant application, and prior to time skinning or curing begins, tool sealants to form smooth, uniform beads of configuration indicated to eliminate air pockets, and to ensure contact and adhesion of sealant with joint of joint. Remove excess sealants from surfaces adjacent to joint. Do not use tooling agents which discolor sealants or adjacent surfaces or are not approved by sealant manufacturer.
 5. Clean off excess sealants or sealant smears adjacent to joints as work progresses by methods and with cleaning materials approved by manufacturers of joint sealers and of products in which joints occur.

4.1 Sealant Schedule:

- A. Kitchen Area:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
 1. Ceiling grid to FRP wall panels
 2. Base of FRP wall panels to T.O. specified base material.
 3. Walk in cooler walls to FRP wall panels.
 4. Stainless closure pieces at cooler walls to FRP wall panels.
 5. FRP/stainless corner guards to FRP wall panels.
 6. Ceiling tile pipe penetrations.
 7. Wall pipe penetrations and/or escutcheons perimeters. (water & gas lines).
 8. Mop sink stainless surround perimeter to walls.
 9. FRP closure panel, at top of cooler, to cooler walls.
 10. FRP wall panels to hollow metal door frames.
 11. Coke line bundle to PVC cap.
 12. FRP inside corner pieces to FRP wall panels. Both sides of corner piece.
 13. Battery backup cover panel to FRP.
 14. Faucet's to FRP wall panels.
 15. FRP wall panels to quarry tile cove base.
 16. FRP to aluminum plate at walk thru.
 17. Menu board light bracket to ceiling.
 18. Mop sink base at quarry tile.
 19. All sinks (multi-compartment, hand, mop and prep) to FRP/tile walls.
 20. Paper towel dispensers & soap dispensers to FRP/tile walls.
- Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
 1. Stainless closer pieces, at sides of cooler walls - to cooler walls.
 2. Stainless or aluminum plate closure pieces to diamond plate at cooler walls.
 3. Diamond plate panel seam joints.
 4. Diamond plate perimeter to cooler walls.
 5. Base of diamond plate to quarry tile cove base.
 6. Stainless closure panel, at top of cooler walls, to cooler walls.
 7. Top of quarry tile cove base to cooler walls at inside of cooler.
 8. Cooler wall/diamond plate penetrations.
 9. Cooler door hinges and handles to diamond plate. DO NOT caulk door locking unit.
 10. Stainless wrap at hollow metal door frame.
 11. Stainless mop surround to stainless corners on mop sink.
 12. Base of stainless corner pieces to slutter strip u base.
 13. Exit door threshold perimeters. To frame and floor, interior and exterior.
- Provide a continuous bead of dark gray GE SCS2000 silicone at the following locations:
 1. Base of hollow metal door jams to quarry tile floor.

B. Managers Office:

- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
 1. Ceiling grid to FRP wall panels.
 2. Perimeter of manager's desk to FRP wall panels.
 3. Hollow metal door frame to FRP wall panels.
 4. Top and ends of coat hanger bracket to FRP walls.
 5. Base of FRP wall panels to quarry tile base.
 6. Ceiling tile wire/pipe penetrations.
 7. FRP inside corners to FRP wall panels. Both sides of corner piece.
 8. Base of FRP wall panels to quarry tile.
- Provide a continuous bead of black or light bronze (use color of safe) GE SCS2000 silicone at the following locations:
 1. Base of safe to floor.

C. Cooking Area:

- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
 1. Top of wall tile to sheetrock ceiling.
 2. Ceiling diffusers perimeters to sheetrock ceiling.
 3. Ceiling pipe penetrations.
 4. Wall tile to aluminum walk thru surround.
 5. Tile wall penetrations/escutcheons perimeters.
 6. FRP wall panels to sheetrock ceilings.
 7. FRP wall panels to aluminum end wall plates.
 8. FRP inside corners to FRP wall panels. Both sides of corner piece.
 9. Sink to white wall tile.
 10. Paper towel dispenser/soap dispenser to white tile.
 11. POS/Serving counter to wall tile.
 12. Stainless shelf behind grill to wall tile.
 13. Faucets to ceramic wall tile.

- Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
 1. Joint between hood and closure skirt.
 2. Joint between hood support and hood. Both sides.
 3. Connection joint between stainless shelf behind grill.
 4. Hood to tile walls & sheetrock ceiling.
 5. Hood gusset to wall tile on both sides.
 6. Sink to bronze wall tile.
 7. Paper towel dispenser/soap dispenser to bronze tile.
 8. DML counter to bronze tile.
- Provide a continuous bead of dark gray GE SCS2000 at the following locations:
 1. Base of equipment to concrete curbs/quarry tile.

- Provide a continuous bead of bronze GE SCS2097 at the following locations:
 1. Ceramic tile inside corners.
 2. Ceramic tile to aluminum end wall plates.

D. Restrooms:

- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
 1. Top of FRP to sheetrock ceiling or top of FRP trim to sheetrock wall.
 2. Perimeter of toilets/urinals to floor or FRP.
 3. Perimeter of mirror to FRP.
 4. Sink to wall.
 5. Perimeter of paper towel/garbage unit to wall.
 6. Toilet paper/napkin disposals units to walls.
 7. Stainless shelf to wall.
 8. Wall penetrations under sink and or escutcheons to perimeters.
 9. Hollow metal door frames to FRP.
 10. Base of FRP wall panels to top of wall base.
 11. FRP inside corners to FRP wall panels.
- Provide a continuous bead of black GE SCS2000 silicone at the following locations:
 1. Base of black rubber wall base to floor.
- Provide a continuous bead of dark gray GE SCS2000 silicone at the following locations:
 1. Base of hollow metal door frames to floor.

E. Dining area:

- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
 1. Wall tile to sheetrock walls.
 2. Perimeter of aluminum storefront/windows/entrances to sheetrock walls.
 3. Wainscot wall panels (Stonewood or other) to painted walls.
 4. Diffuser/louvers perimeters to sheetrock walls.
 5. Hollow metal door frames to painted walls - if needed.
 6. Frame of service line counter to tile (joint to be caulked behind front face panels of counter).
 7. Wall tile at serving line wall to POS counter.
- Provide a continuous bead of black GE SCS2000 silicone at the following locations:
 1. Base of black rubber to floor (concrete or quarry tile) and gyp. bd. wall.
 2. Wainscot (Stonewood or other) wall panels to sill of aluminum storefront/ windows.
 3. Vertical joints of wainscot (Stonewood or other) wall panels to frames/painted walls/tile (ONLY if joint is uneven or plywood is showing).
 4. Stonewood panels at serve line.

- Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
 1. Base of garbage surround to floor.
- Provide a continuous bead of Dow 795 silicone at the following locations:
 1. Sill of aluminum store fronts to concrete or tile floor. Color to be determined per store to match storefront (Charcoal/Anodized Aluminum/Dark Bronze).

F. Utensil Counter:

- Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
 1. Stainless countertop to backsplash. Horizontal & vertical joints.
 2. Base of Coke machine to countertop.
 3. Perimeter of tea drain tray to countertop.
 4. Stainless backsplash to white tile walls/painted walls.
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
 1. Coke line bundle to PVC cap.

G. Fire Rated Walls:

- Provide a continuous bead of 3M 25WB+ at the following locations:
 1. Wall/ceiling penetrations in rated walls.

H. Exterior Joints:

- Provide a continuous bead of Tremco Dymeric limestone urethane sealant at the following locations:
 1. Sidewalk/concrete expansion joints.
- Provide a continuous bead of Dow 795 silicone or Tremco Dymeric 240 FC at the following locations:
 1. Hollow metal door frames.
 2. EIFS to abutting services.
 3. Penetrations in EIFS.
 4. Face brick or block control joints.
 5. Perimeter of Aluminum Storefronts.*Colors to be determined per store to match adjacent material colors. Verify with Tenant Construction Manager and Architect.
 - For "Fog" EIFS use Tremco - "Natural White"
 - For "Knight's Armor" EIFS use Sonneborn - "Charcoal Gray" #276-U
 - For white brick use Tremco - "China White"
- Provide a continuous bead of aluminum GE SCS1009 silicone at the following location:
 1. CO2 fill port stainless box.
 2. Faucet for hose. (Please note: color to be determined per store. Verify with Chipotle Construction Manager and Architect).

Consultant:

R/A

Red/Architecture

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LAKELAND, FL 33812

Issue Record:

02/25/26 PERMIT SET
02/25/26 BID SET

Revisions:

Drawn:

Checked:

JLH,PH DM,DF

Project No.

EPL002

Contents:

ARCHITECTURAL
SPECIFICATIONS

G013

MATERIAL	COLOR/FINISH
CMU - PRIMER	REFER TO PAINT SPECIFICATIONS, COLOR 'WHITE'
CMU	PAINTED 'KNIGHT'S ARMOR' PPG 1001-6
METAL COPING AND DOOR FRAMES	PREFINISHED BLACK
CORRUGATED METAL DOOR PANEL	GALVANIZED

R/A

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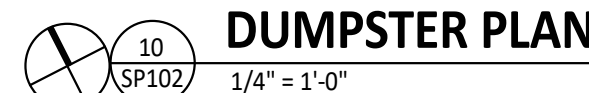
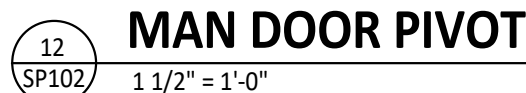
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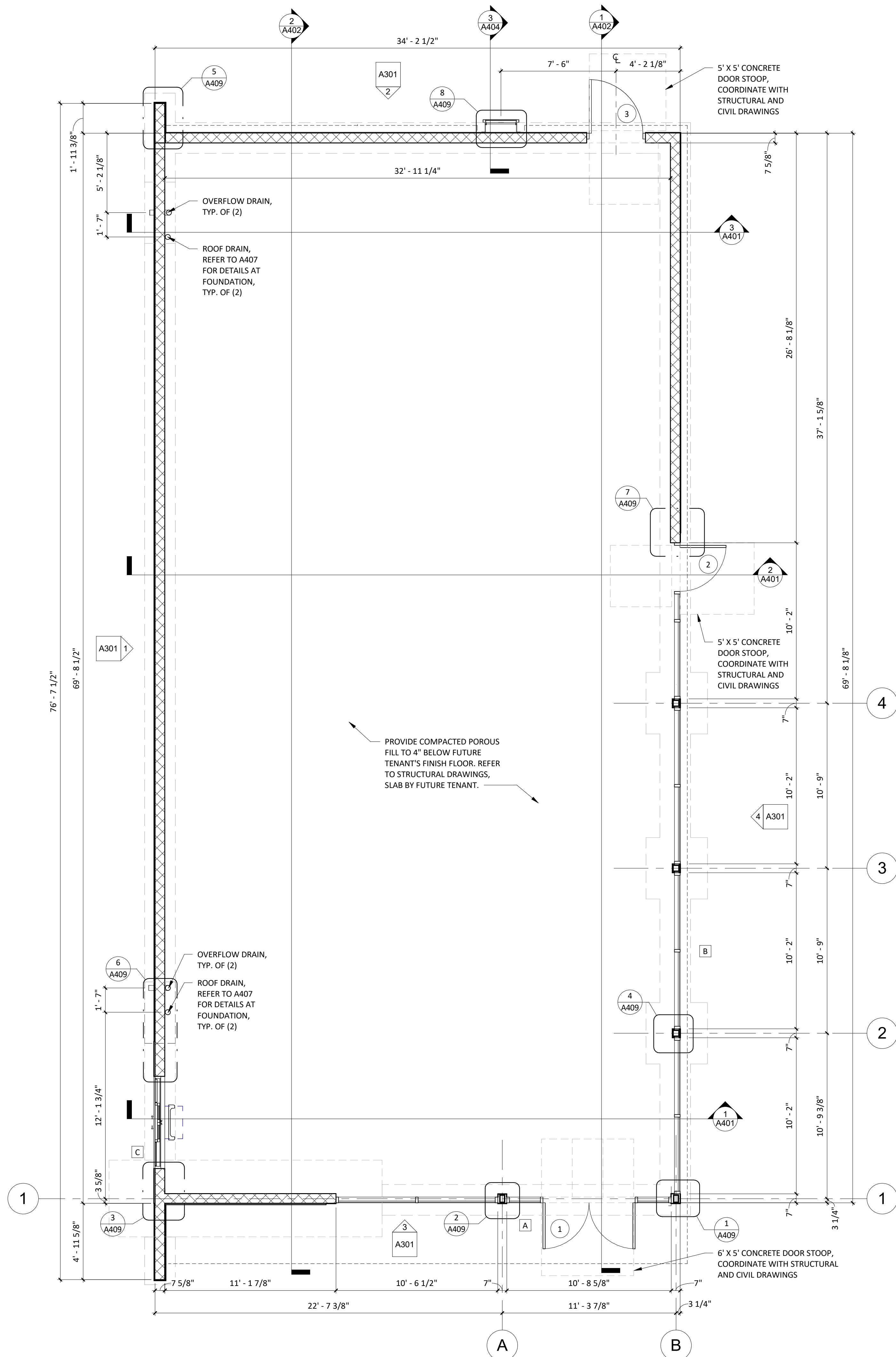
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Project No.
EPL002

Contents:

SP102





ARCHITECTURAL SHELL PLAN
1/4" = 1'-0"

CONSTRUCTION NOTES

1. REFER TO A601 FOR DOOR INFORMATION & A602 FOR STOREFRONT DIMENSIONS.
2. ALL DIMENSIONS ARE TO FACE OF FRAMING (STUD WALL) OR CENTERLINE OF STRUCTURE UNLESS NOTES OTHERWISE.
3. SEE STRUCTURAL SHEETS FOR ALL STUD FRAMING CONFIGURATIONS, SIZES, SPACING AND GAUGES.
4. ALL EXTERIOR WOOD BLOCKING TO BE MOISTURE RESISTANT PRESERVATIVE TREATED (P.T.)
5. TAPE SEALANT AT ALL ANCHOR LOCATIONS.
6. ALL FLASHING AND SEAMS BETWEEN SHEATHING IN COMPOSITE WOOD STUD WALL CONSTRUCTION CONDITIONS TO BE TAPED AND SEALED WITH TAPE SEALANT.
7. LAP ALL WEATHER RESISTANT BARRIERS AND THRU-WALL FLASHING IN A WATER SHEDDING FASHION. TAPE ALL EXPOSED EDGES.
8. EXTEND ALL THRU-WALL FLASHING TO 1/4 INCH PAST THE EXTERIOR FACE OF WALL.
9. PROVIDE CONTINUOUS ANCHORAGE FOR ALL THRU-WALL FLASHING.
10. EXTEND FLASHING VERTICALLY A MINIMUM OF 8 INCHES ABOVE THE BASE OF THE FLASHING.
11. APPLY SEALANT TO ALL SHEATHING JOINTS AND FASTENER PENETRATIONS.
12. PROVIDE FULLY ADHERED FLASHING AT ALL WINDOW AND DOOR OPENING HEADS, SILLS AND JAMBS.

TERMITE TREATMENT NOTES

SOIL TREATMENT SHALL COMPLY WITH FBCB, SECTIONS 1816.1.1 THRU 1816.1.6 AND SECTION 1816.2 INCLUDING TREATMENT UNDER ALL CONCRETE OR GRADE WITHIN 12" OF THE OUTSIDE OF THE BUILDING WALLS, AND A VERTICAL CHEMICAL BARRIER APPLIED PROMPTLY AFTER CONSTRUCTION IS COMPLETED. ANY SOIL DISTURBED AFTER THE VERTICAL CHEMICAL BARRIER IS APPLIED SHALL BE PROMPTLY RETREATED. THE LICENSED PEST CONTROL COMPANY DOING THE WORK SHALL ISSUE A CERTIFICATE OF COMPLIANCE TO THE BUILDING DEPARTMENT PER FBC, SECTION 1816.1. TREATMENT SHALL BE WITH A REGISTERED TERMITICIDE LABELED FOR USE IN NEW CONSTRUCTION AS DEFINED IN FBCB, SECTION 202.

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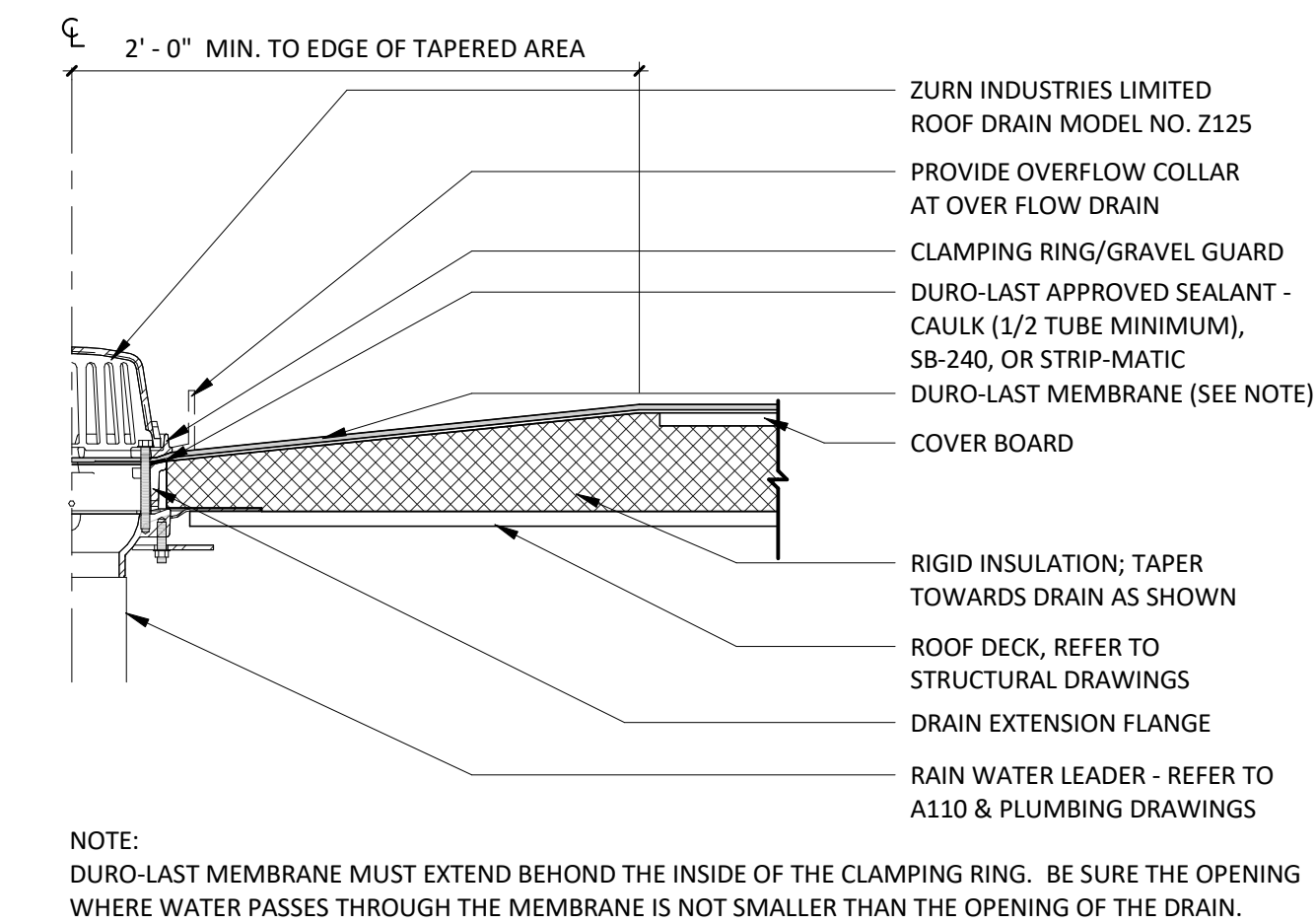
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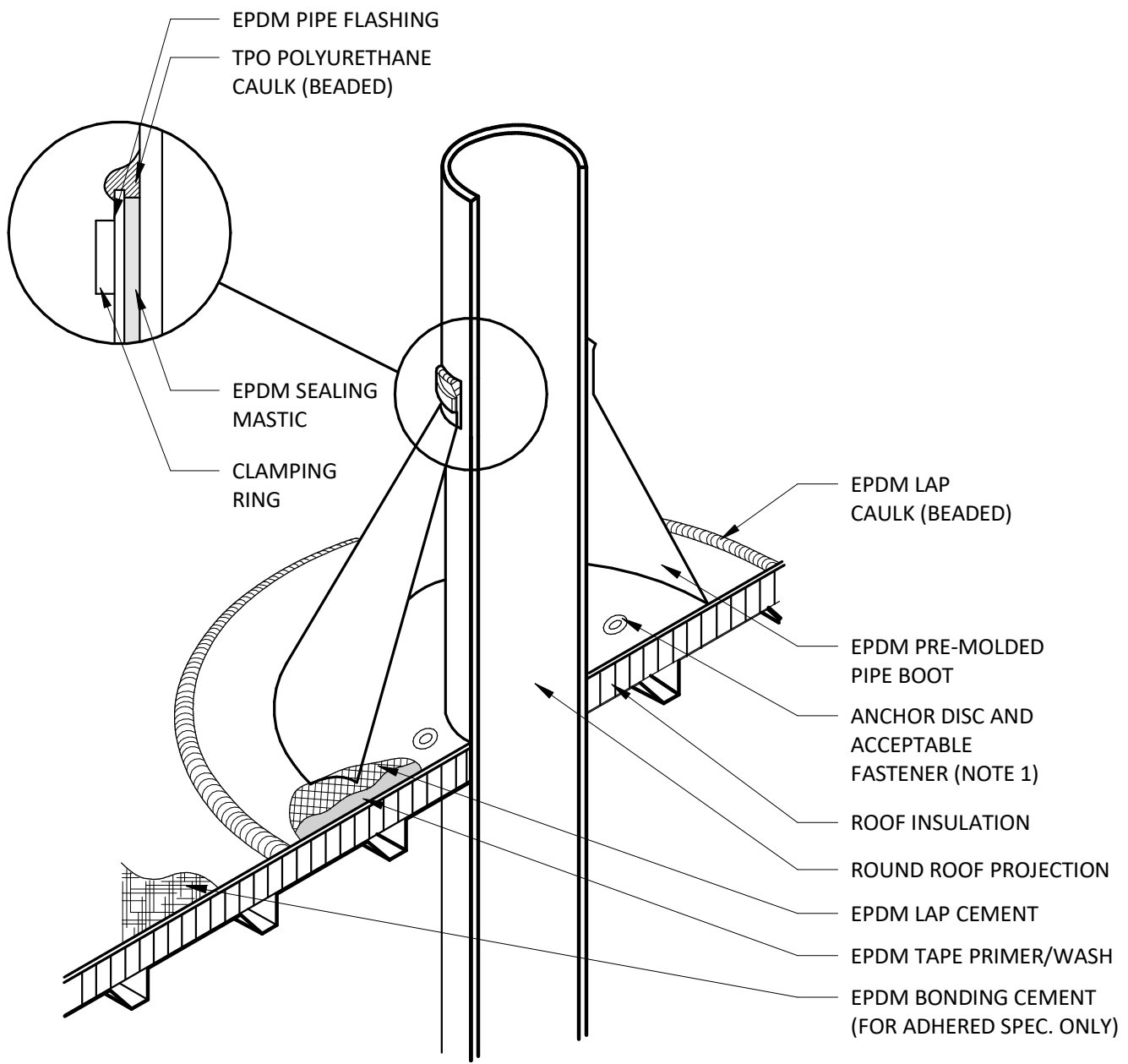
Project No.
EPL002

Contents:
ARCHITECTURAL SHELL PLAN

A100

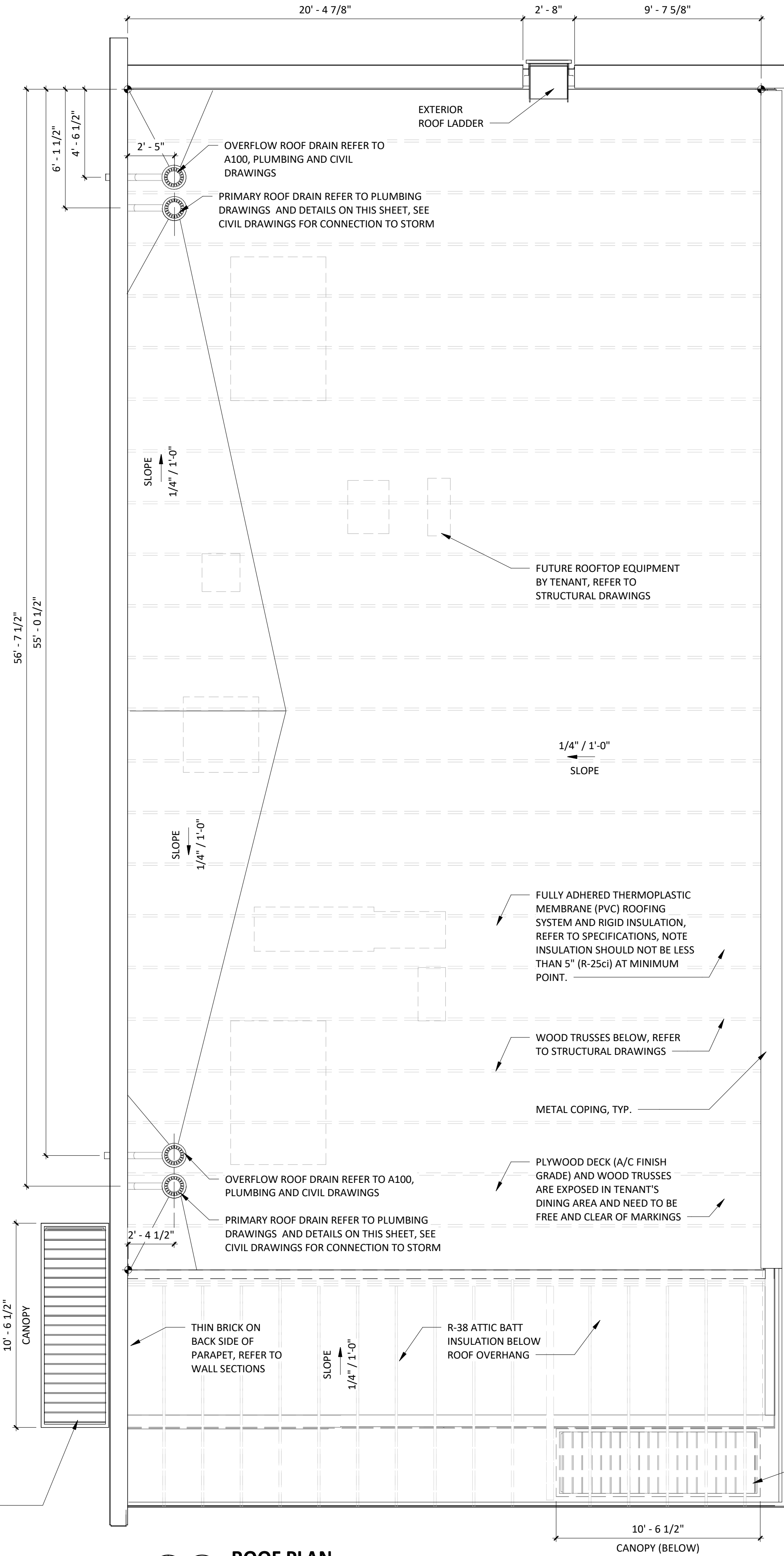


3
A140
1 1/2" = 1'-0"



2
A140
1/2" = 1'-0"

PREFINISHED METAL CANOPY, TYP. OF TWO (2), FIELD VERIFY DIMENSIONS WITH INSTALLED STEEL DIMENSIONS



1
A140
1/4" = 1'-0"

GENERAL ROOF NOTES

- SEE STRUCTURAL DRAWINGS FOR LOCATIONS AND SIZE OF STRUCTURAL ROOF REINFORCEMENTS.
- SEE TENANT PLANS FOR ROOFTOP EQUIPMENT
- COORDINATE ALL ROOF PENETRATIONS, FLASHING, AND REPAIR W/ TENANT ROOF TOP EQUIPMENT PRIOR TO COMMENCEMENT OF WORK.
- DIMENSIONS FOR ROOF TOP EQUIPMENT WITH CURBS IS TO THE OUTSIDE FACE OF THE CURB. DIMENSIONS FOR EQUIPMENT WITHOUT CURBS ARE TO THE CENTER OF THE UNIT. ALL DIMENSIONS ARE FOR REFERENCE ONLY. ROOFING CONTRACTOR TO ADJUST AS NECESSARY IN FIELD. CONTACT ENGINEERING CONSULTANTS FOR ANY MAJOR MODIFICATIONS TO LAYOUT
- JOISTS FOR SHELL BUILDING ARE TO BE DESIGNED FOR THE RTU WEIGHTS AND PLACEMENT EXHIBITED. IF LOCATION OR ORIENTATION OF A UNIT MUST CHANGE, NOTIFY ARCHITECT IMMEDIATELY
- SEE TENANT'S PLANS FOR PENETRATION DETAILS AT RTUS AND THE EXHAUST FAN.
- PROVIDE TAPERED INSULATION CRICKET AT ALL EQUIPMENT CURBS

Consultant:

R/A

Red Architecture

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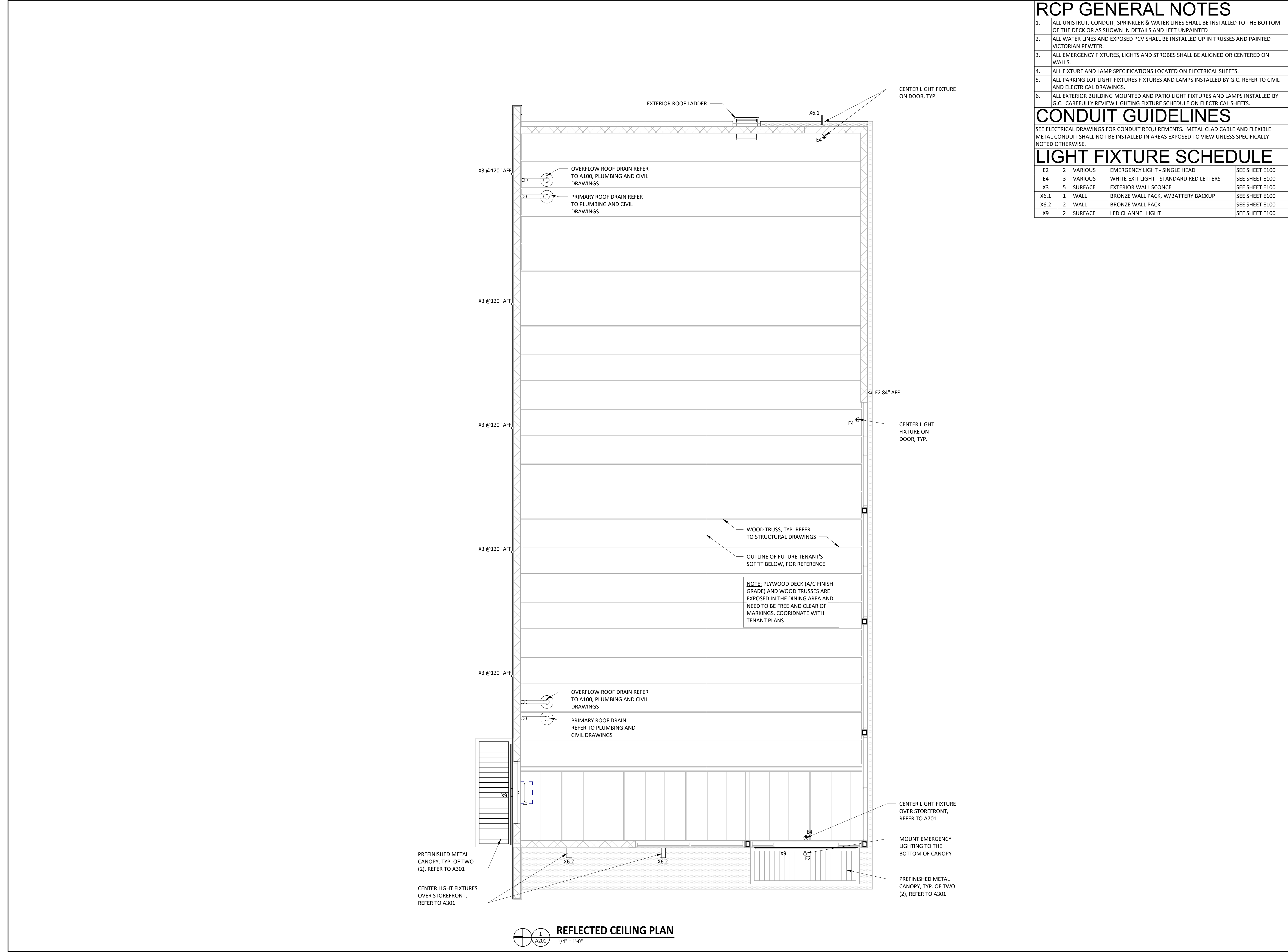
Project No.

EPL002

Contents:

**ARCHITECTURAL
ROOF PLAN**

A140



RCP GENERAL NOTES

1. ALL UNISTRUT, CONDUIT, SPRINKLER & WATER LINES SHALL BE INSTALLED TO THE BOTTOM OF THE DECK OR AS SHOWN IN DETAILS AND LEFT UNPAINTED
2. ALL WATER LINES AND EXPOSED PCV SHALL BE INSTALLED UP IN TRUSSES AND PAINTED VICTORIAN PEWTER.
3. ALL EMERGENCY FIXTURES, LIGHTS AND STROBES SHALL BE ALIGNED OR CENTERED ON WALLS.
4. ALL FIXTURE AND LAMP SPECIFICATIONS LOCATED ON ELECTRICAL SHEETS.
5. ALL PARKING LOT LIGHT FIXTURES AND LAMPS INSTALLED BY G.C. REFER TO CIVIL AND ELECTRICAL DRAWINGS.
6. ALL EXTERIOR BUILDING MOUNTED AND PATIO LIGHT FIXTURES AND LAMPS INSTALLED BY G.C. CAREFULLY REVIEW LIGHTING FIXTURE SCHEDULE ON ELECTRICAL SHEETS.

CONDUIT GUIDELINES

SEE ELECTRICAL DRAWINGS FOR CONDUIT REQUIREMENTS. METAL CLAD CABLE AND FLEXIBLE METAL CONDUIT SHALL NOT BE INSTALLED IN AREAS EXPOSED TO VIEW UNLESS SPECIFICALLY NOTED OTHERWISE.

LIGHT FIXTURE SCHEDULE

E2	2	VARIOUS	EMERGENCY LIGHT - SINGLE HEAD	SEE SHEET E100
E4	3	VARIOUS	WHITE EXIT LIGHT - STANDARD RED LETTERS	SEE SHEET E100
X3	5	SURFACE	EXTERIOR WALL SCONCE	SEE SHEET E100
X6.1	1	WALL	BRONZE WALL PACK, W/BATTERY BACKUP	SEE SHEET E100
X6.2	2	WALL	BRONZE WALL PACK	SEE SHEET E100
X9	2	SURFACE	LED CHANNEL LIGHT	SEE SHEET E100

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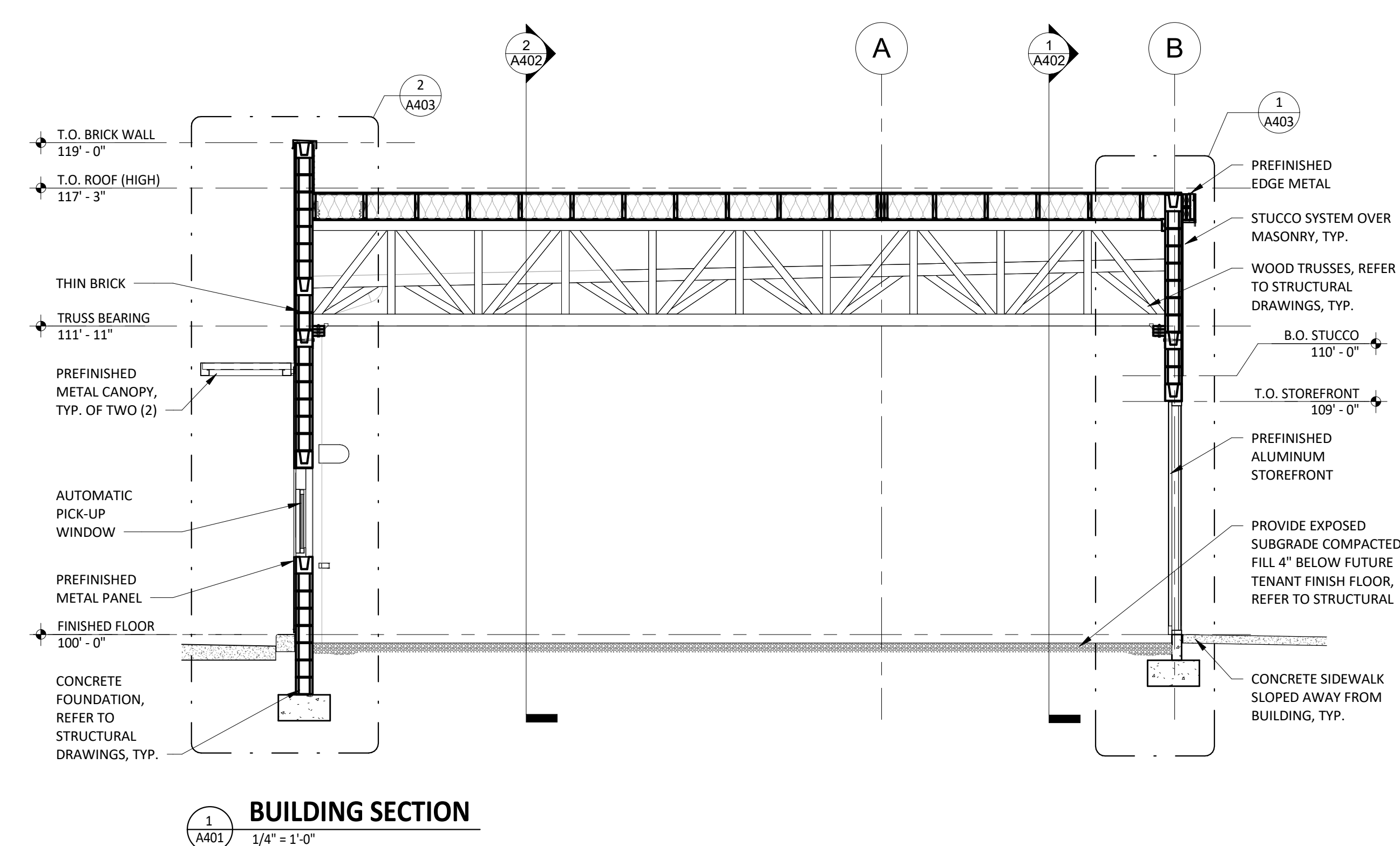
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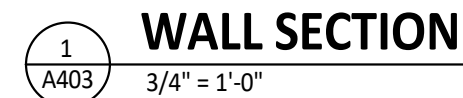
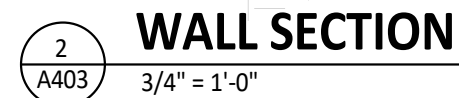
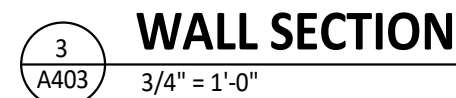
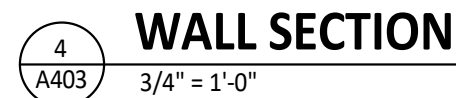
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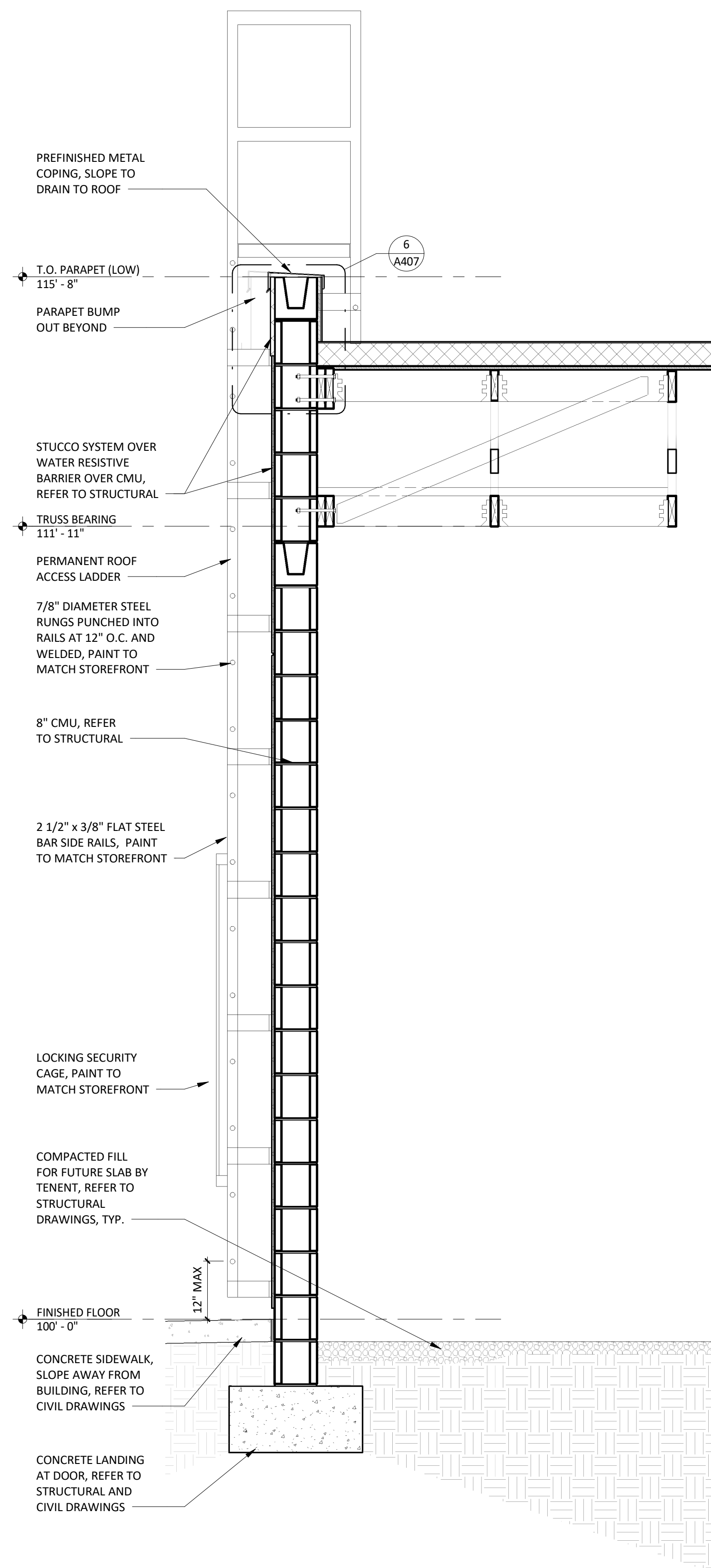
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**REFLECTED CEILING
PLAN**

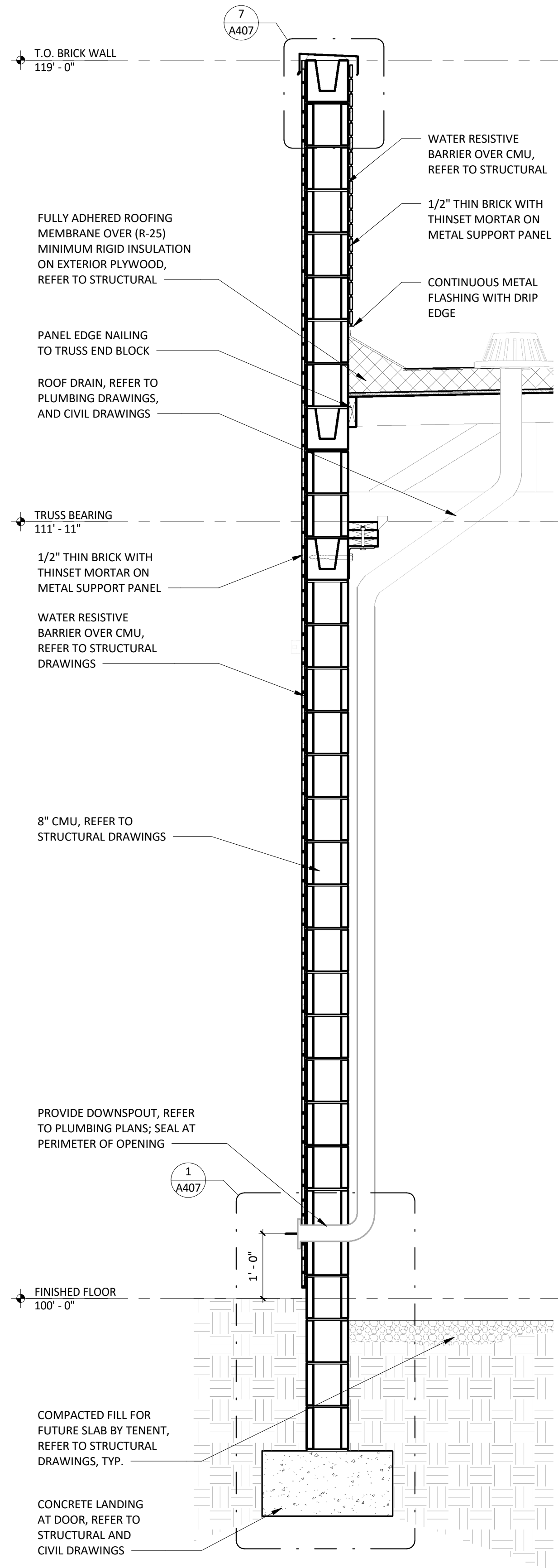
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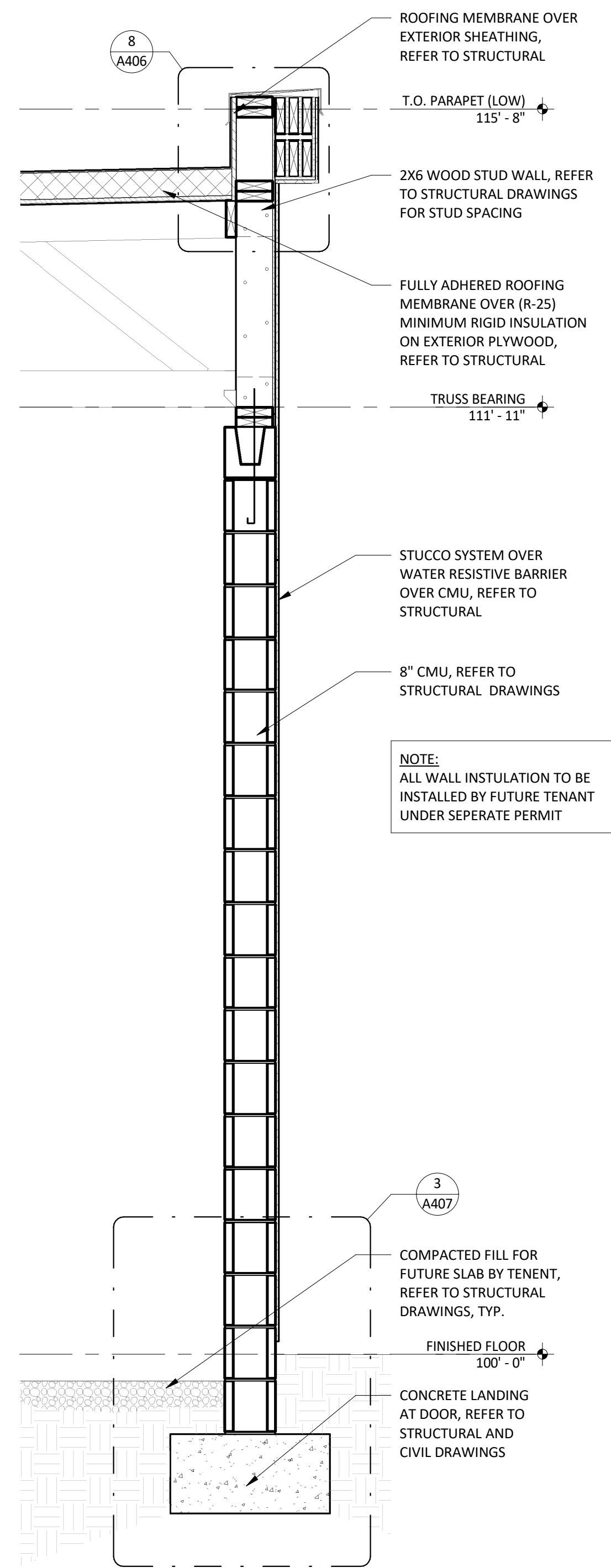




3 WALL SECTION @ ROOF LADDER
3/4" = 1'-0"



2 WALL SECTION
3/4" = 1'-0"



1 WALL SECTION
3/4" = 1'-0"

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Contents:

WALL SECTIONS

A404

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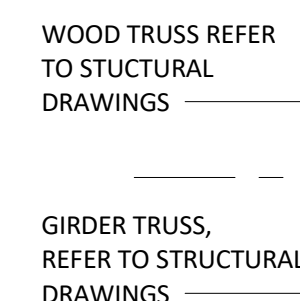
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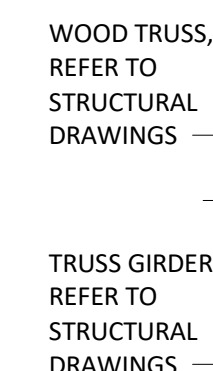
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WALL SECTIONS

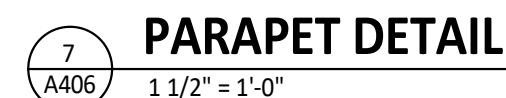
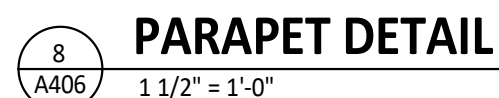
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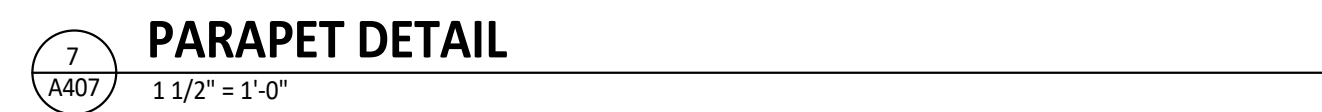


2
A405



1
A405





DOOR SCHEDULE															REMARK NOTES	
TAG	DOOR STATUS *	FRAME STATUS	DOOR DESCRIPTION	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR DOOR TYPE	DOOR DOOR FINISH	FRAME FRAME TYPE	MATERIAL	STILE	HARDWARE SET	HARDWARE HARDWARE STATUS*	FIRE RATING	REMARKS	1. DOORS WITH REMARK #1 TO BE KEYED THE SAME 2. EXIT INDICATOR ARRIVES WITH SIGNS STATING "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS" AND "THIS DOOR TO REMAIN UNLOCKED WHEN THE BUILDING IS OCCUPIED". VERIFY REQUIRED SIGN WORDING WITH LOCAL JURISDICTION PRIOR TO INSTALLATION. ONE SIGN IS TO BE PLACED IN A VISIBLE LOCATION ABOVE THE DOORS. 3. THERE IS TO BE NO EXTERIOR HOLE OR CYLINDER 4. USE NON-SHRINK STRUCTURAL GROUT BED UNDER THRESHOLD 5. BLACK DOOR SWEEP TO BE USED WITH CHARCOAL, BLACK OR BRONZE STOREFRONT. LIGHT GRAY DOOR SWEEP TO BE USED WITH CLEAR ANODIZED ALUMINUM STOREFRONT 6. REAR KITCHEN DOOR TO BE PAINTED 'BLACK' U.N.O.
1	NEW	NEW	DOUBLE STOREFRONT (WIDE STILE, NON-OFFSET, PANIC)	6' - 0"	7' - 0"	0' - 1 3/4"	A	SEE A301	STOREFRONT	ALUM	WIDE (5")	1A	NEW		1,2,4,5	
2	NEW	NEW	SINGLE STOREFRONT (WIDE STILE, NON-OFFSET, PANIC)	3' - 0"	7' - 0"	0' - 1 3/4"	A	SEE A301	STOREFRONT	ALUM	WIDE (5")	2A	NEW		1,3,4,5	
3	NEW	NEW	HM REAR KITCHEN (STANDARD)	3' - 6"	7' - 0"	0' - 1 3/4"	B	D1 (SEE A120)	1	H.M.	-	3	NEW		1,4,6	

HARDWARE SETS

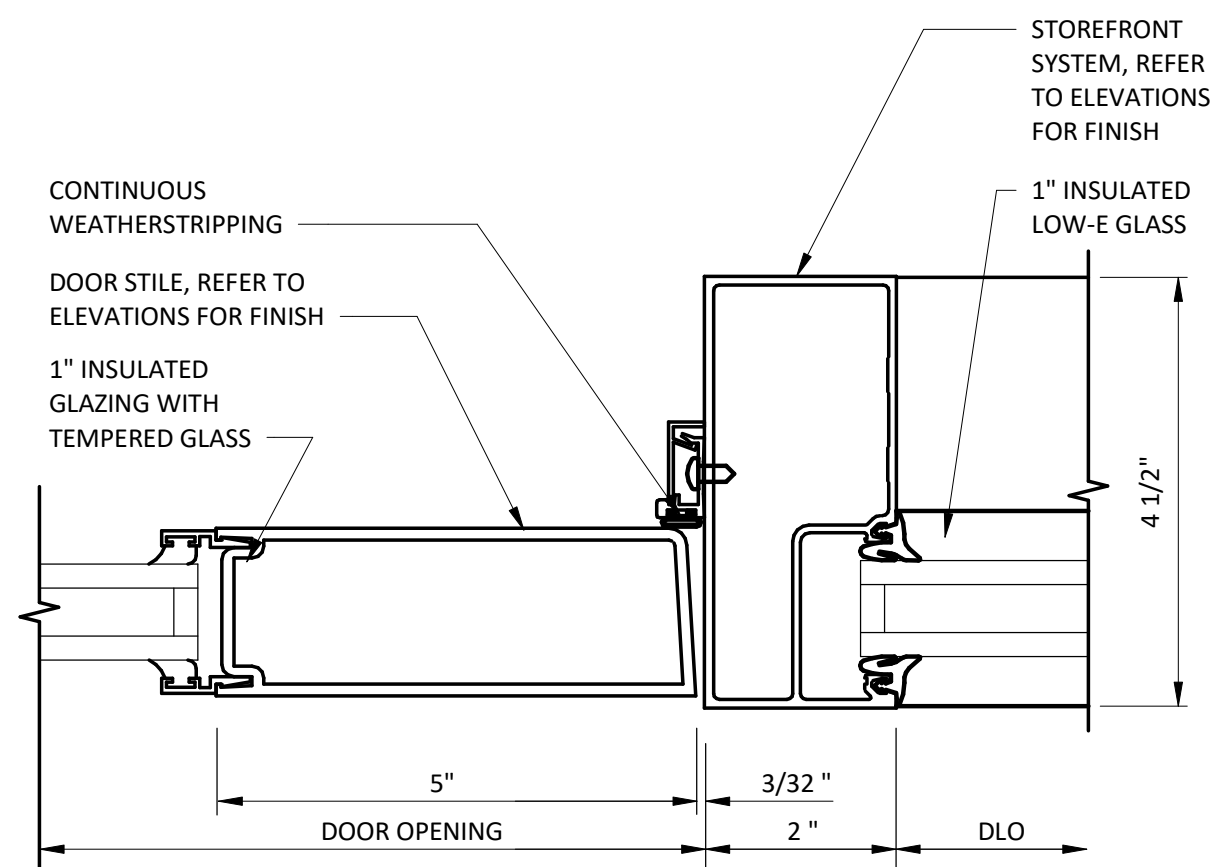
SET 1A - MAIN ENTRY - PAIR - PUSH BAR		
(2)	HINGE	HAGER, MODEL 780-224HD-83"-CLR
(2)	MORTISE CYLINDER	SCHLAGE, MODEL 80-103, BRUSHED CHROME; C.O. CYLINDER AT 34" MIN. FROM BOTTOM OF DOOR
(2)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE, (BRUSHED CHROME)
(2)	PUSH/PULL	HAGER, MODEL 150 US32D (36" BAR LENGTH, C.O. BAR AT 38" FROM BOTTOM OF DOOR), CENTER PULL ON DOOR STILE
HARDWARE		
(1)	DEADBOLT	ADAMS RITE, MODEL MS1850S-310-628
(1)	EXIT INDICATOR	ADAMS RITE, MODEL 4089-00-130
(1)	HEADER BOLT	ADAMS RITE, MODEL 4016-30-01
(1)	THRESHOLD BOLT	ADAMS RITE, MODEL 4015-18-18
(2)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), (ALUMINUM)
(2)	DOOR STOP	IVES, MODEL FS18S (ALUMINUM), MOUNT 4" MAX. FROM WALL
(2)	OVERHEAD STOP	GLYNN-JOHNSON, MODEL 454S-SP28 (ALUMINUM)
(2)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUM
(1)	THRESHOLD	REESE, MODEL S239A-72 (SIZE 72")
(2)	SMOKE SEAL	REESE, MODEL 797B-21
(2)	DOOR SWEEP	PEMKO, MODEL SF5C-200-36 (36" DOOR),OWNER FURNISHED
SET 2A - ENTRY - SINGLE - EGRESS ONLY - PANIC HARDWARE		
(1)	HINGE	HAGER, MODEL 780-224HD-83"-CLR
(1)	PUSH HARDWARE	ADAMS RITE, MODEL 8801-36-628 (ALUMINUM FINISH, 36" DOOR); C.O. EXIT DEVICE AT 38" FROM BOTTOM OF DOOR
(1)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), (ALUMINUM)
(1)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUM
(1)	OVERHEAD STOP	GLYNN-JOHNSON, MODEL 454S-US32D (ALUMINUM)
(1)	THRESHOLD	REESE, MODEL S239A-36 (SIZE 36")
(1)	SMOKE SEAL	REESE, MODEL 797B-21
(1)	DOOR SWEEP	PEMKO, MODEL SF5C-200-36 (36" DOOR), OWNER FURNISHED
(1)	DOOR STOP	IVES, MODEL FS18S (ALUMINUM), MOUNT 4" MAX. FROM WALL
SET 3 - REAR EXIT - SINGLE		
(1)	HINGE	HAGER, MODEL 780-224HD-83"-CLR
(1)	PUSH HARDWARE	FALCON, MODEL 25-R-EO-4'-US28 (SIZE 42")
(1)	PULL HARDWARE	FALCON, MODEL 510L-DANE-LHR-US26D, ALUMINUM (EXTERIOR SIDE)
(1)	RIM CYLINDER	GLS, MODEL RCIC-7-LZ-626
(1)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE (FINISH: BRUSHED CHROME)
(1)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), ALUMINUM
(1)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUM
(1)	THRESHOLD	REESE, MODEL S239A-42, (SIZE 42")
(1)	WEATHERSTRIP	REESE, MODEL DS75C-4070
(1)	DOOR SWEEP	PEMKO, MODEL SF5C-200-42 (42" DOOR) (BLACK) OWNER FURNISHED
(1)	DOOR VIEWER	IVES, MODEL U698B26D, C.O. VIEWER AT 60" FROM BOTTOM OF DOOR
(1)	DOOR SILENCERS	IVES, MODEL SR64
(1)	DOOR BUTTON	HEATHZENITH MODEL SL-704, OR EQUAL
(1)	DOOR BUZZER	HEATHZENITH MODEL SL-170, OR EQUAL
(1)	KICKPLATE	HIAWATHA, MODEL KP834-US32D

DOOR TYPES	DOOR FRAMES	DOOR CLOSER
<div><p>A</p><p>ALUMINUM DOOR W/ TEMPERED GLAZING</p></div> <div><p>B</p><p>INSULATED HOLLOW METAL DOOR</p></div>	<div><p>1</p><p>NOTE: GC TO VERIFY THE WALL THICKNESS PRIOR TO ORDERING DOOR FRAMES.</p></div>	<div><p>TOP JAMB MOUNT INSTALLATION. (NOTE THAT BACKPLATE IS MISSING IN THIS INSTALLATION BECAUSE HEAD JAMB IS OF ADEQUATE HEIGHT TO RECEIVE ALL MOUNTING SCREWS WITHOUT IT.) WHEN IN DOUBT ABOUT THE HEAD JAMB DIMENSION OR STABILITY, ORDER THE BACKPLATE.</p></div>

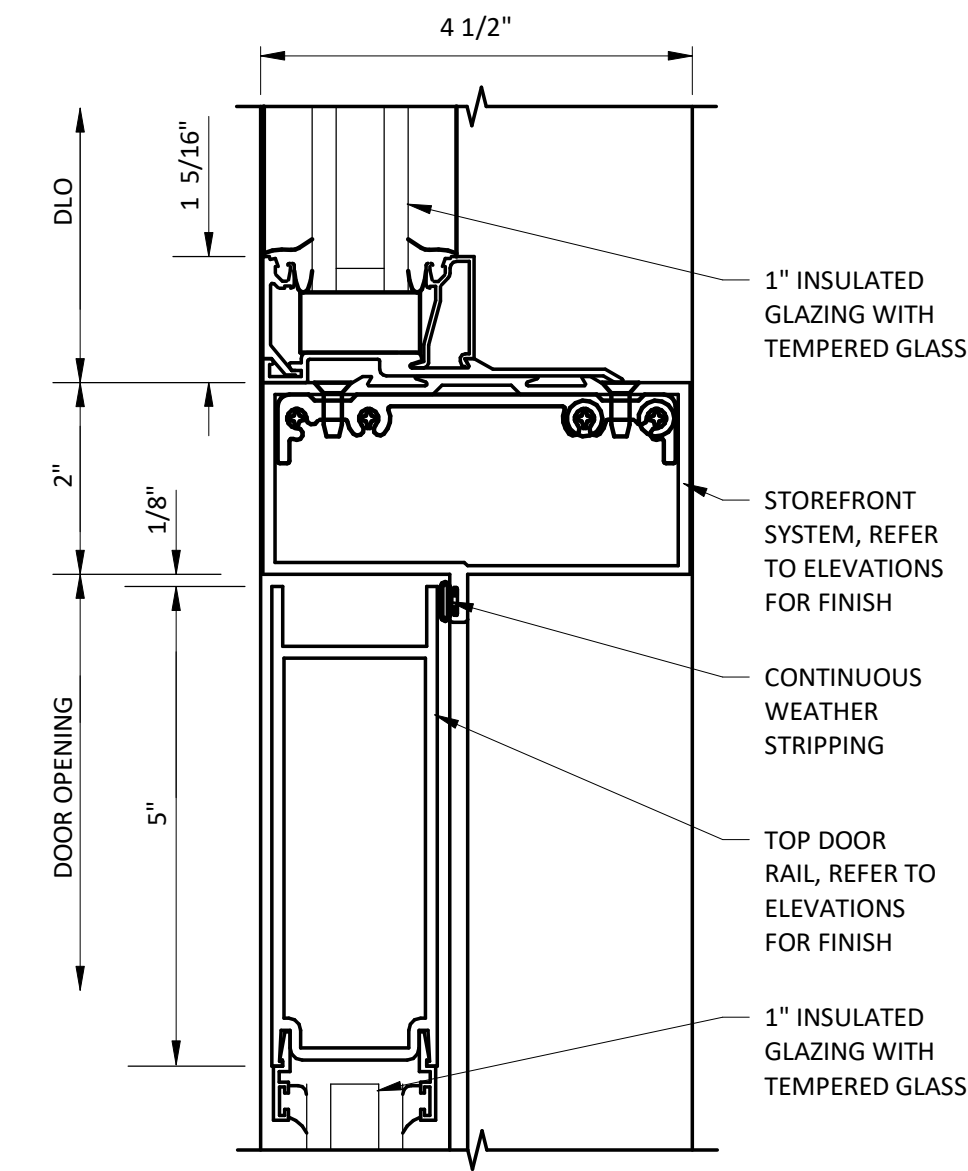
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STOREFRONT DETAILS



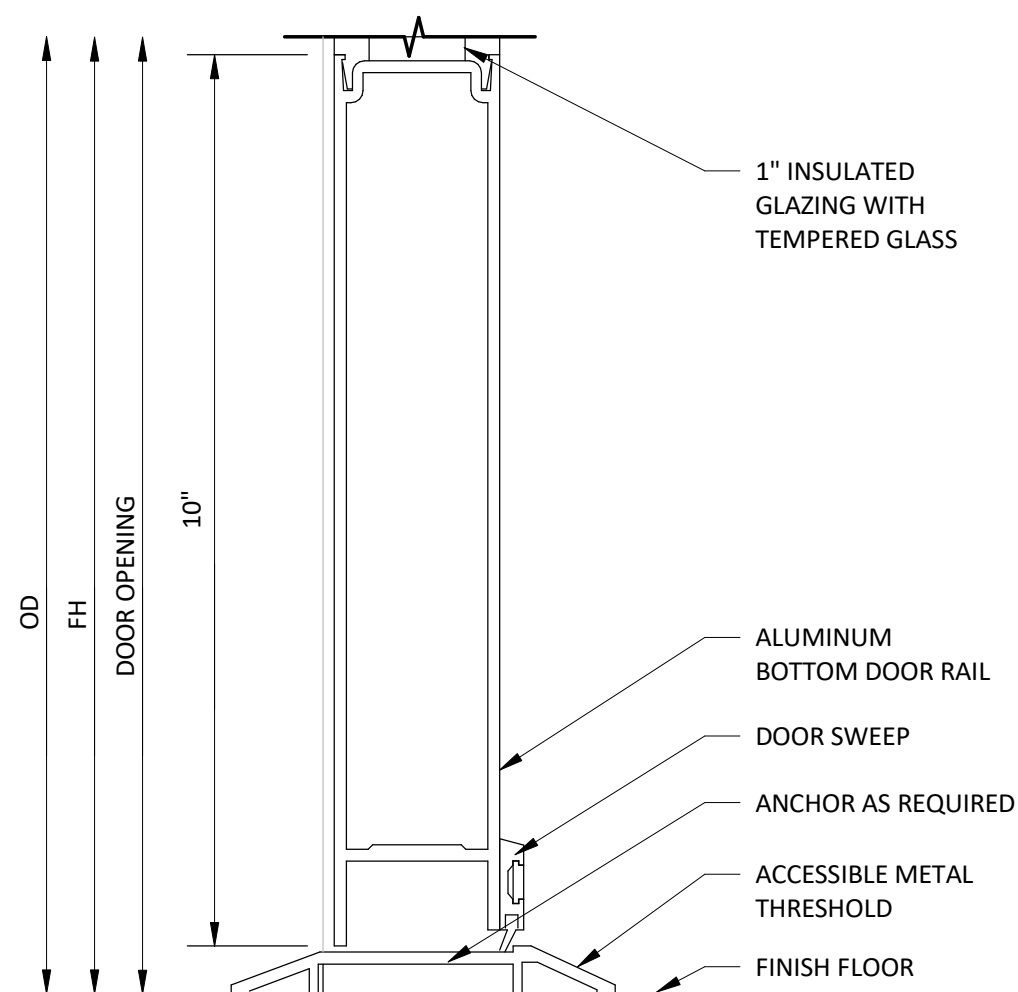
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A602 **STOREFRONT DOOR JAMB DETAIL**
6" = 1'-0"



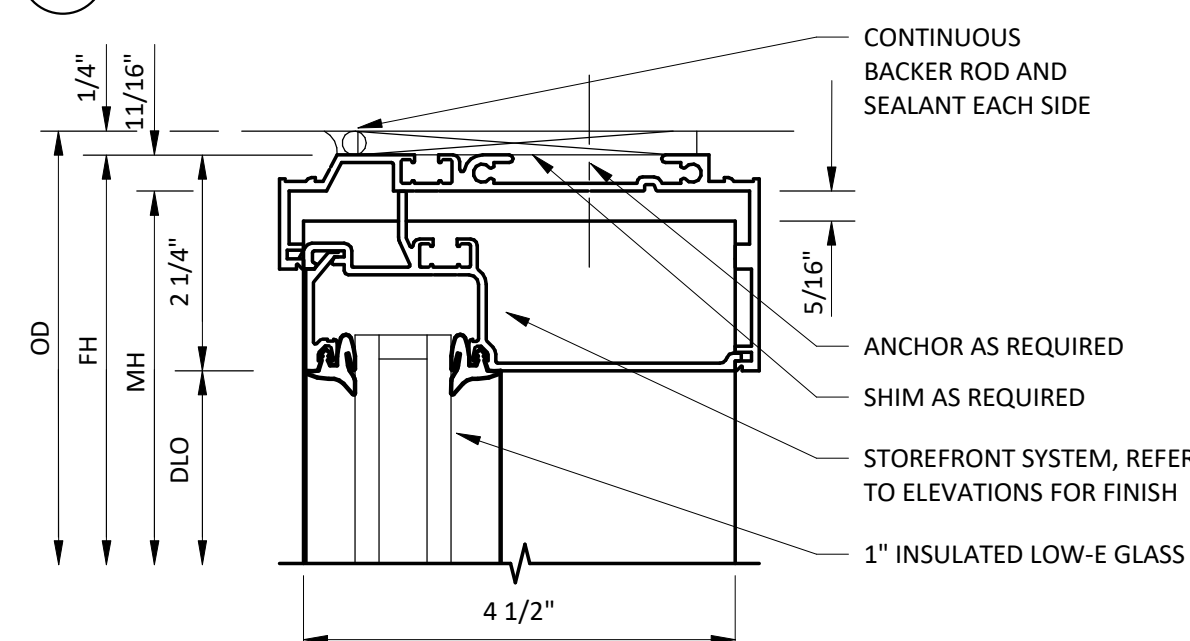
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A602

STOREFRONT TRANSOM BAR DETAIL

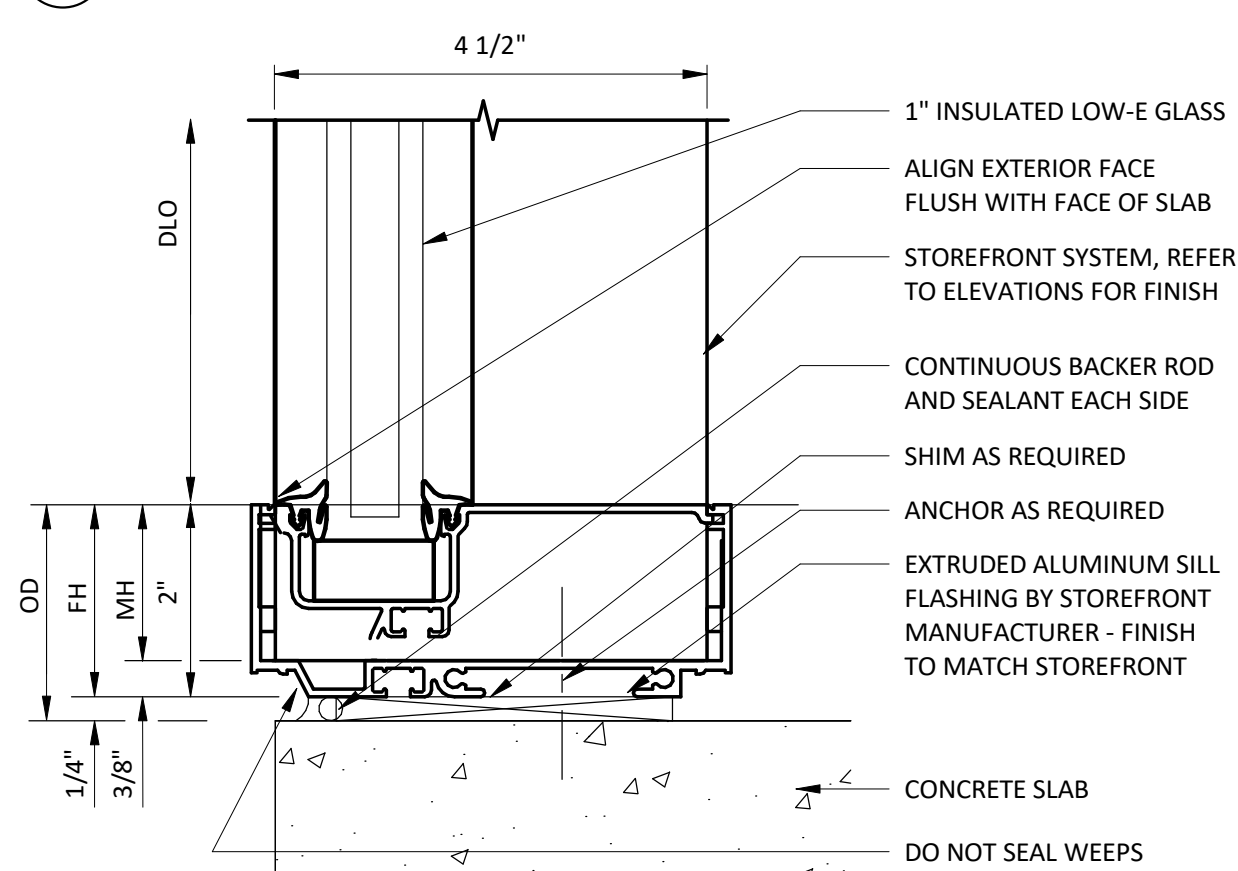
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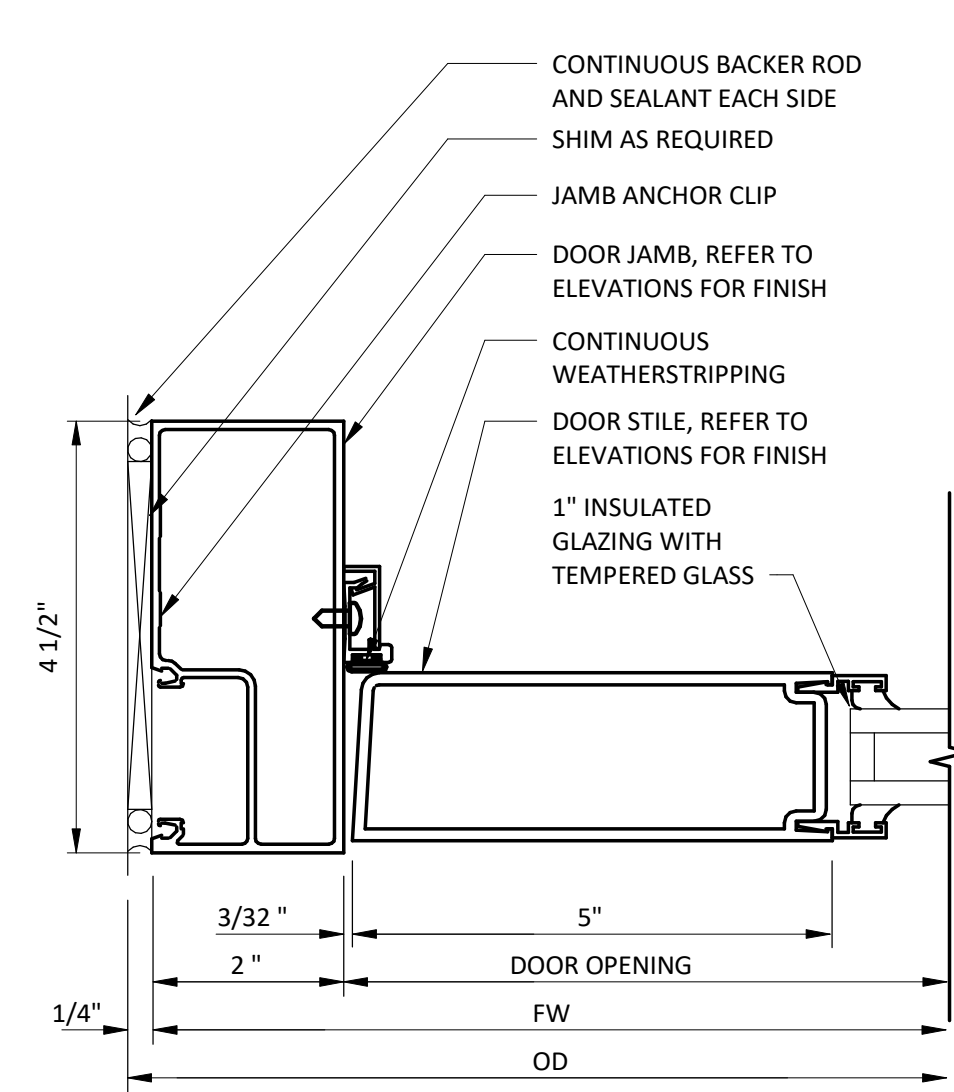
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A602 **STOREFRONT THRESHOLD DETAIL**
6" = 1'-0"



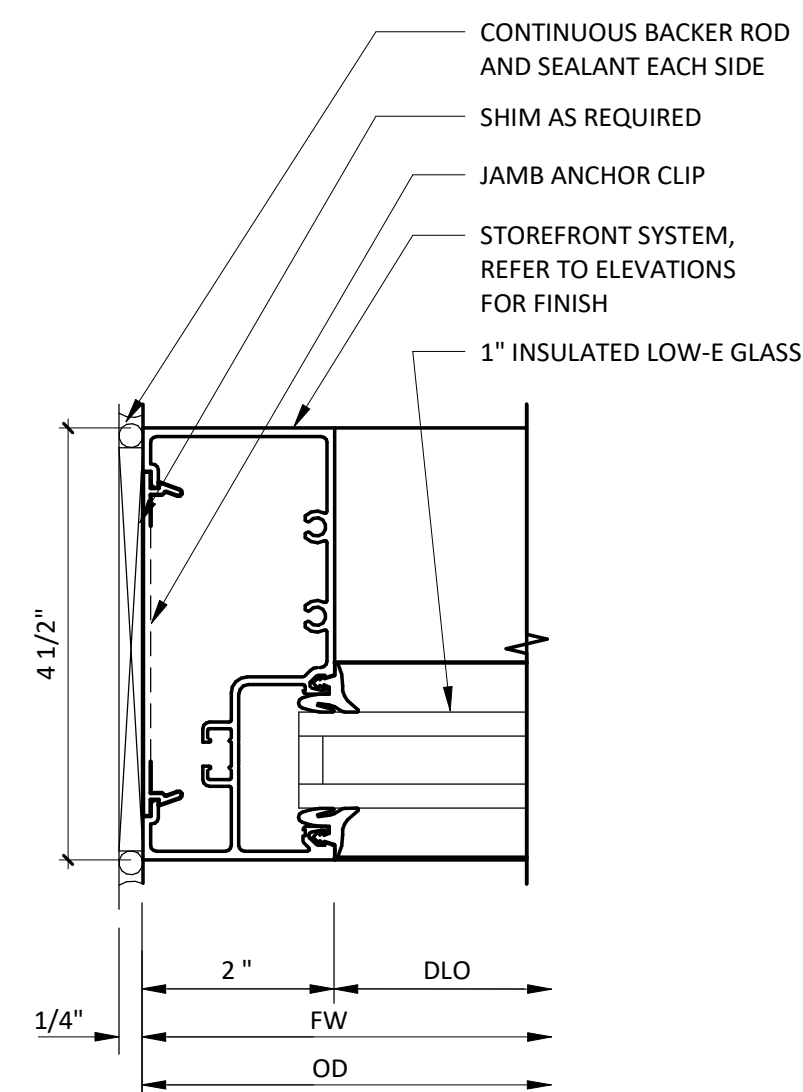
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A602 **STOREFRONT HEAD DETAIL**
6" = 1'-0"



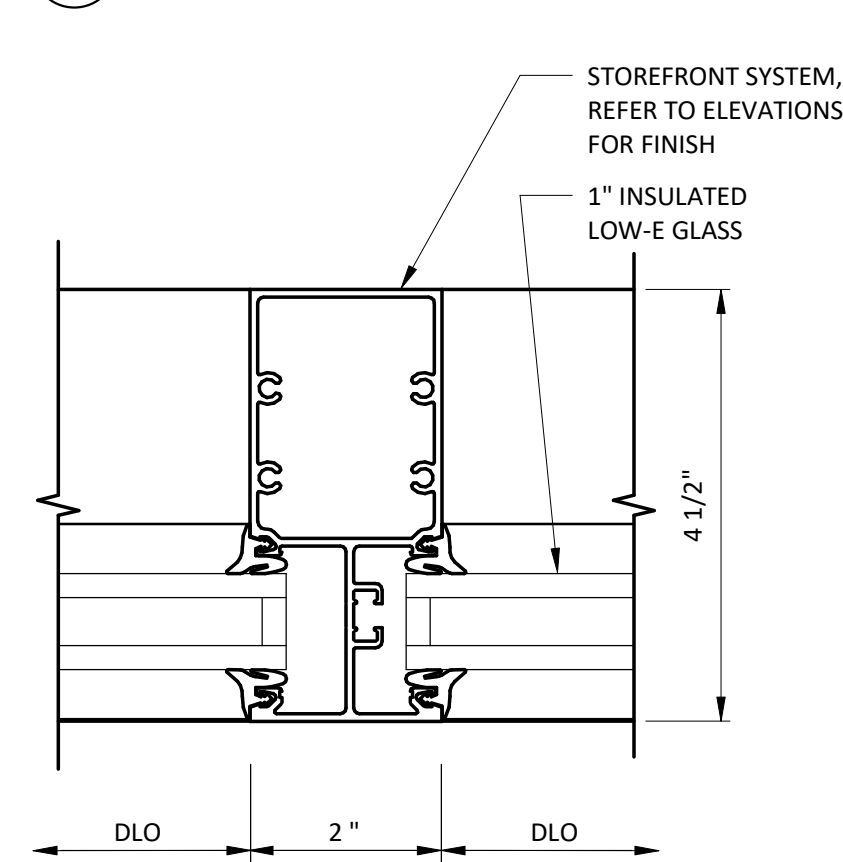
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A602 **STOREFRONT SILL DETAIL**
6" = 1'-0"



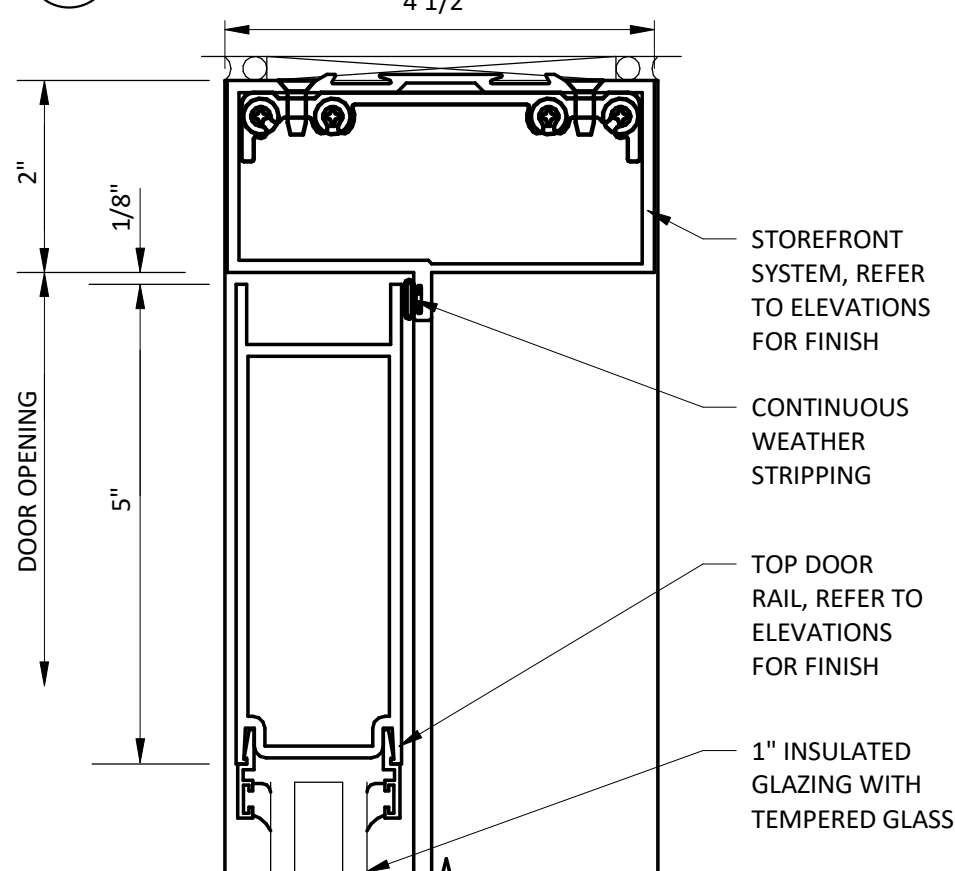
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A602 **STOREFRONT DOOR JAMB DETAIL**
6" = 1'-0"



5
A602 **STOREFRONT JAMB DETAIL**
6" = 1'-0" 4 1/2"

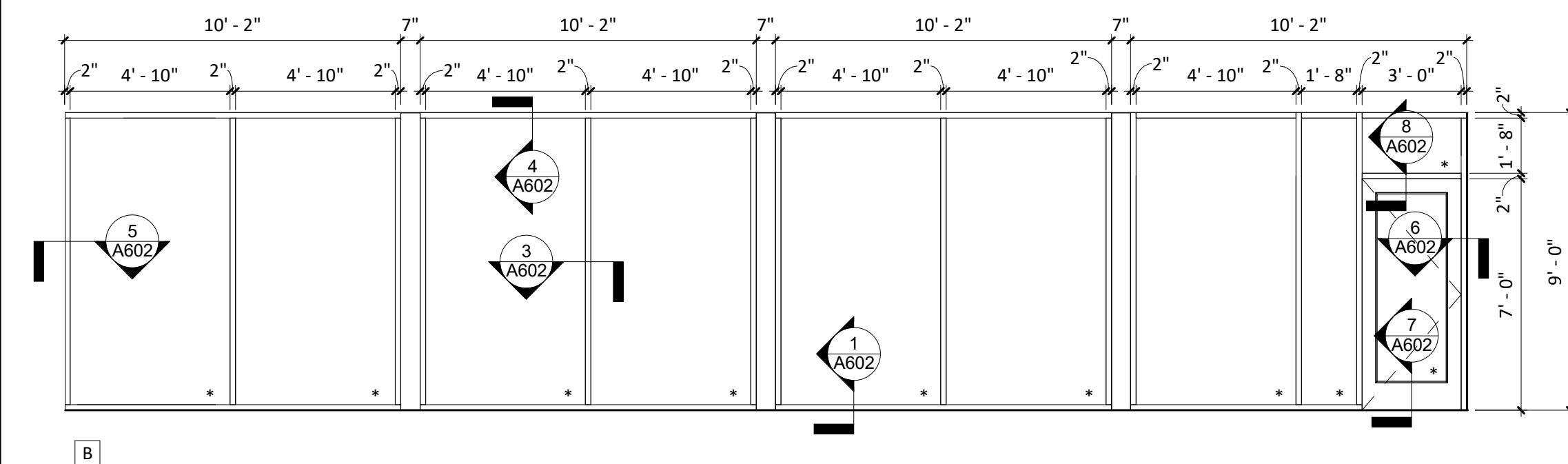
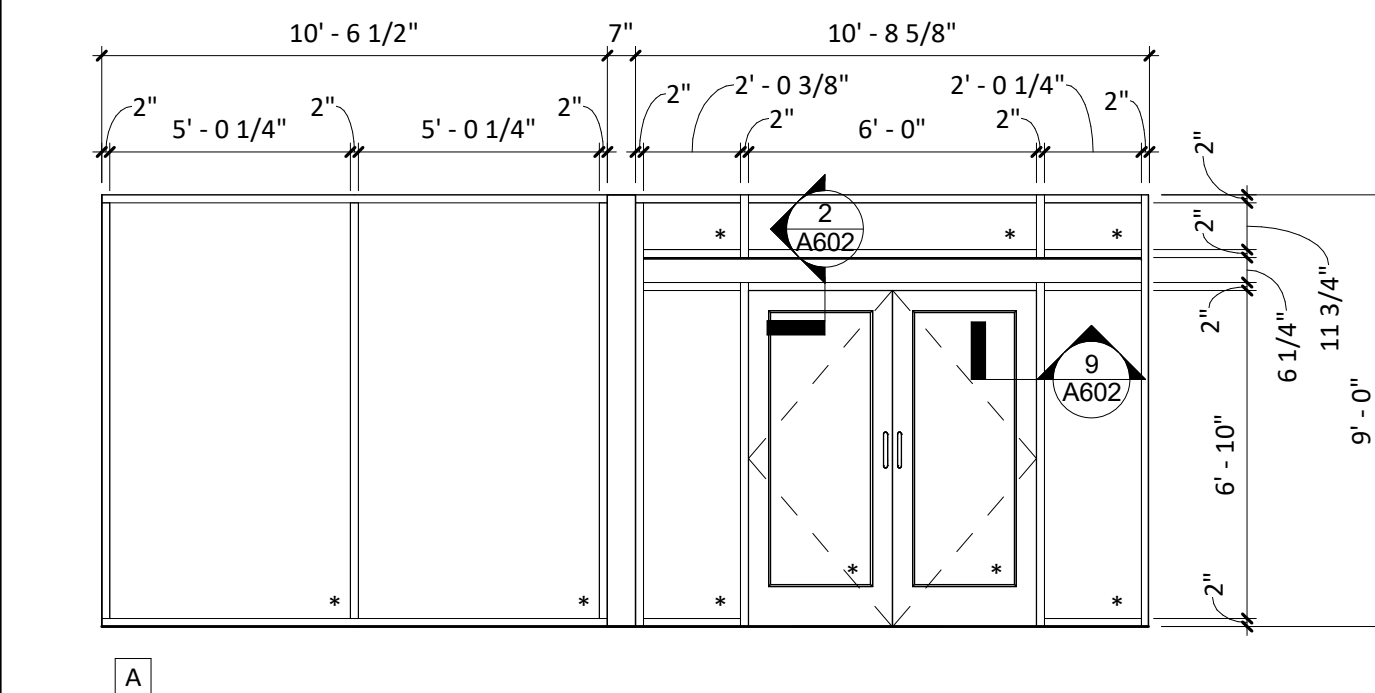


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A602 **STOREFRONT MULLION DETAIL**
6" = 1'-0"

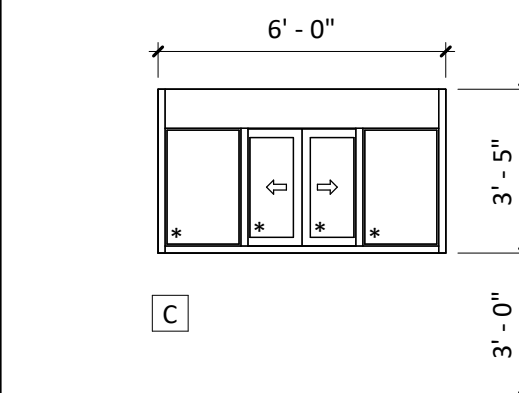


2 STOREFRONT TRANSOM BAR DETAIL
A602 6" = 1'-0"

STOREFRONT TYPES



WINDOW TYPES



NOTE:
FULLY AUTOMATIC ELECTRIC
PASS-THRU WINDOW BASED
UPON QUIKSERV IMPACT
RESISTANT WINDOW DESIGN.

GENERAL NOTES

1. ALL WINDOW AND DOOR GLAZING IS TO BE CLEAR / INSULATED UNLESS NOTED OTHERWISE.
2. WINDOW AND DOOR GLAZING TO BE TEMPERED AT LOCATIONS INDICATED WITH "ST".
3. NEW STOREFRONT FRAMING SYSTEM TO BE SUPPLIED BY G.C. G.C. TO VERIFY FRAMING OPENING SIZES AND MATERIALS WITH ARCHITECT AND/OR TENANT REPRESENTATION MANAGER PRIOR TO FABRICATION.
4. STOREFRONT GLAZING DESIGN IS BASED ON KAWNEER PREFINISHED ALUMINUM STOREFRONT WITH 1" INSULATED GLAZING, REFER TO SPECIFICATIONS.
5. STOREFRONT SYSTEM IS 2' X 4' 1/2" NOMINAL DIMENSION; FRONT SET, U.N.O.

Consultant:

R/A

Red/Architecture

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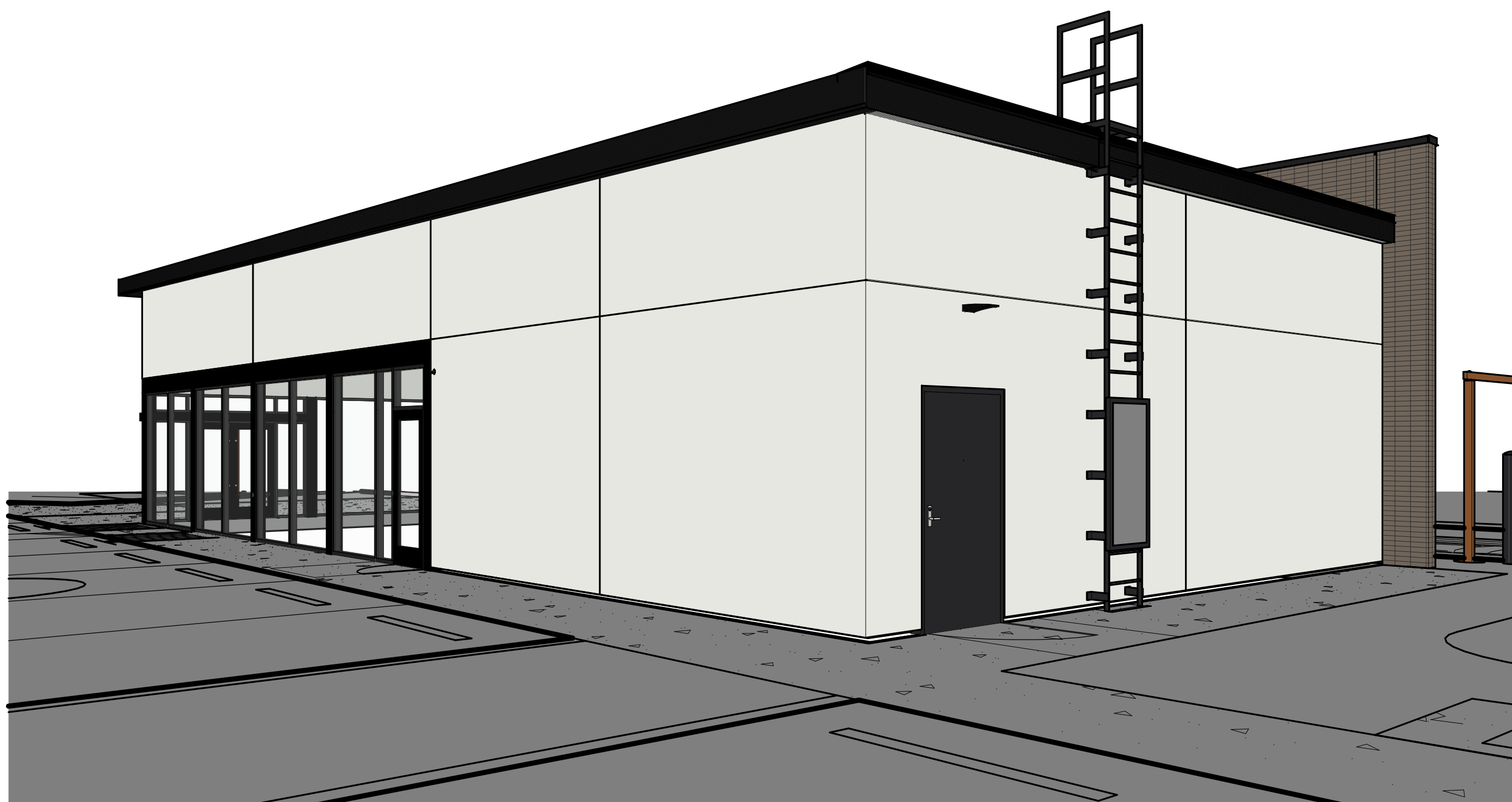
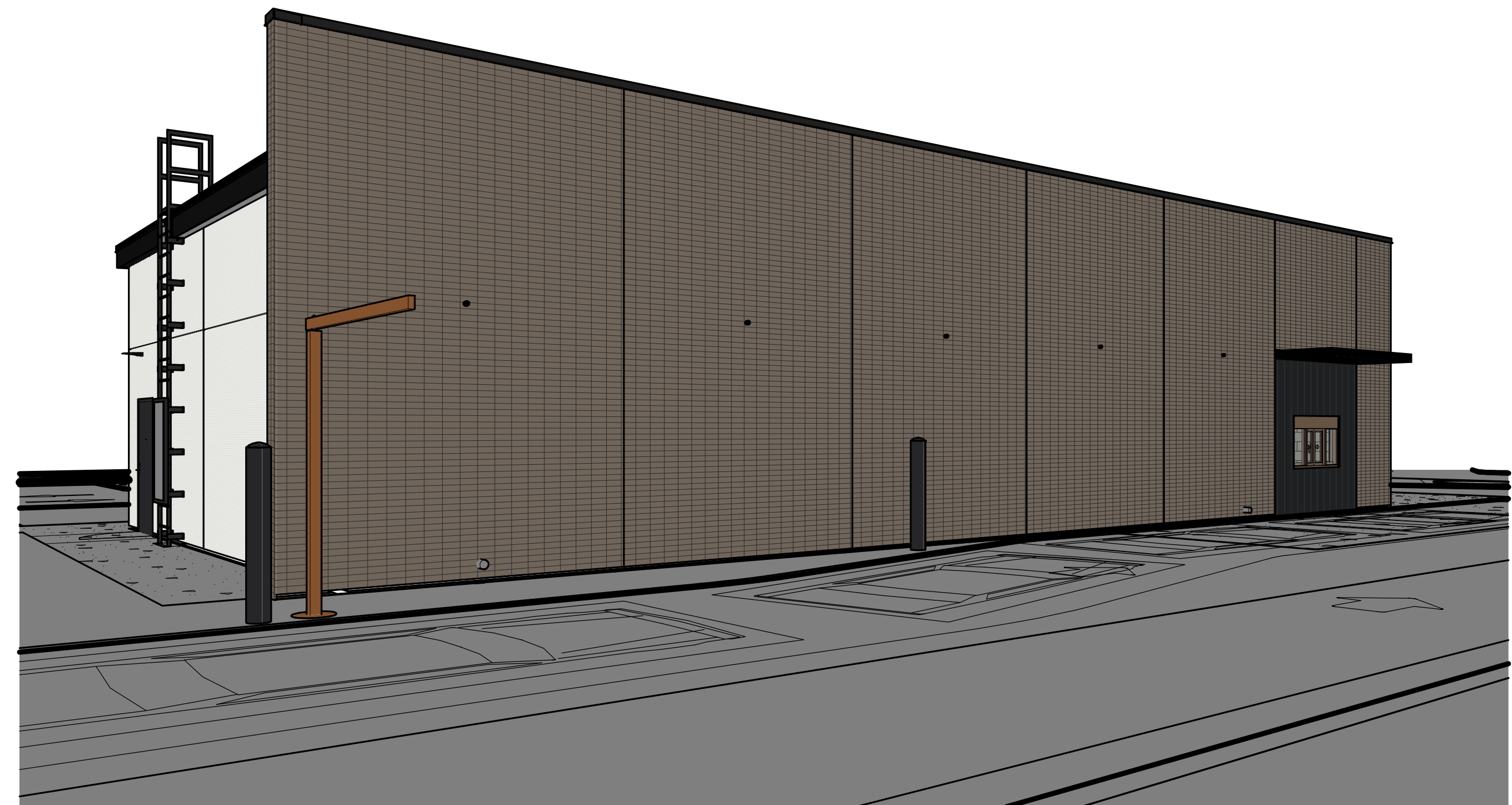
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Drawn:	Checked:
JLH,PH	DM,DF
Project No.	
EPL002	
Contents:	

STOREFRONT DETAILS

A602



Consultant:

R/A

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Issue Record:

02/25/26	PERMIT SET
02/25/26	BID SET

Revisions:

Drawn:	Checked:
LH,PH	DM,DF

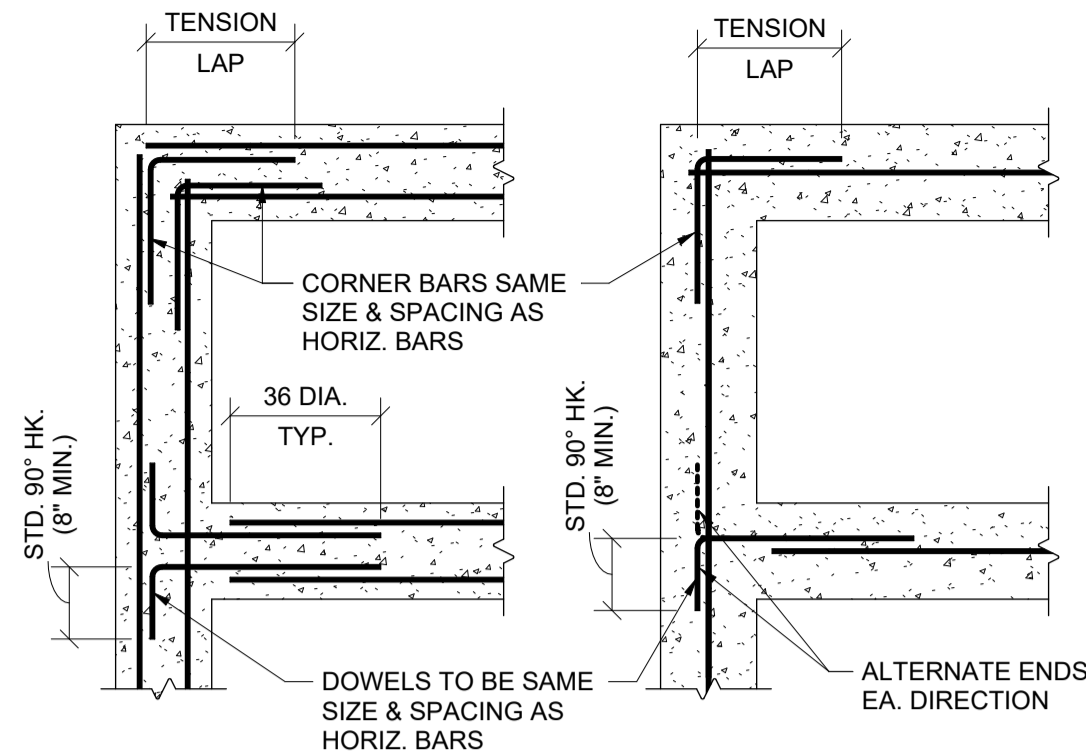
Project No.
EPL002

Contents:

EXTERIOR PERSPECTIVES

A901

S001

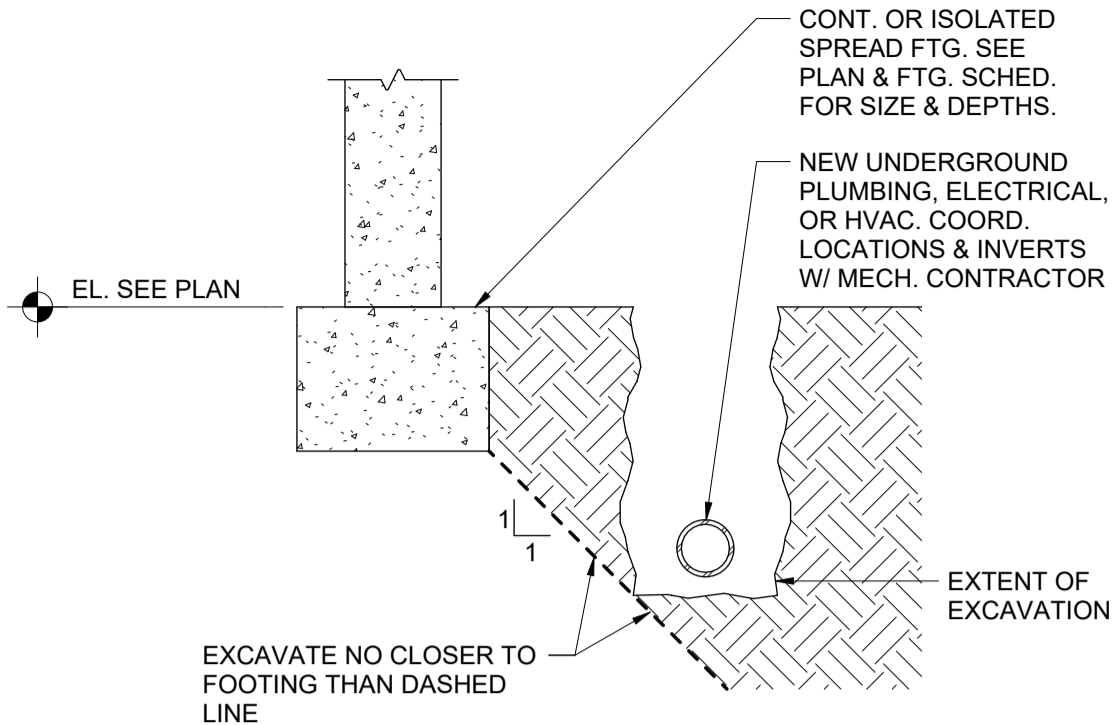


TYPICAL CORNER BARS FOR CONCRETE WALL AND FOOTING CONSTRUCTION

SECTION

3/4" = 1'-0"

1

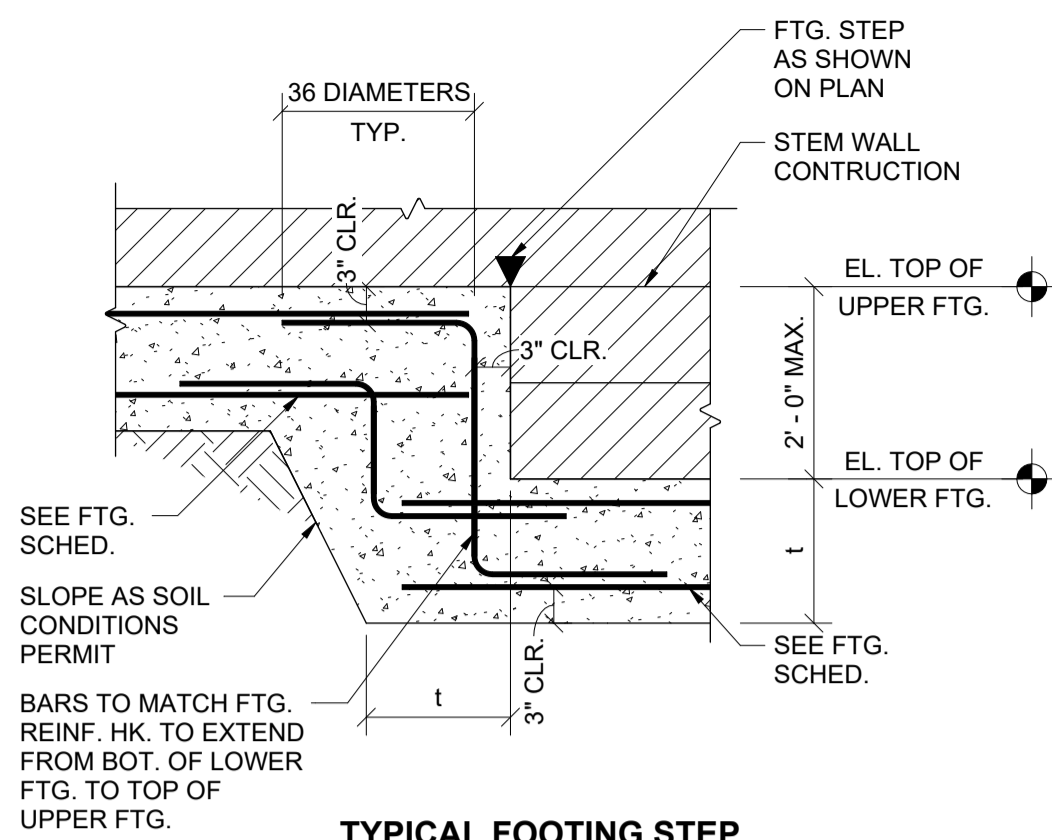


TYPICAL EXCAVATION CLEARANCE REQUIREMENTS AT NEW UNDERGROUND WORK

SECTION

3/4" = 1'-0"

2

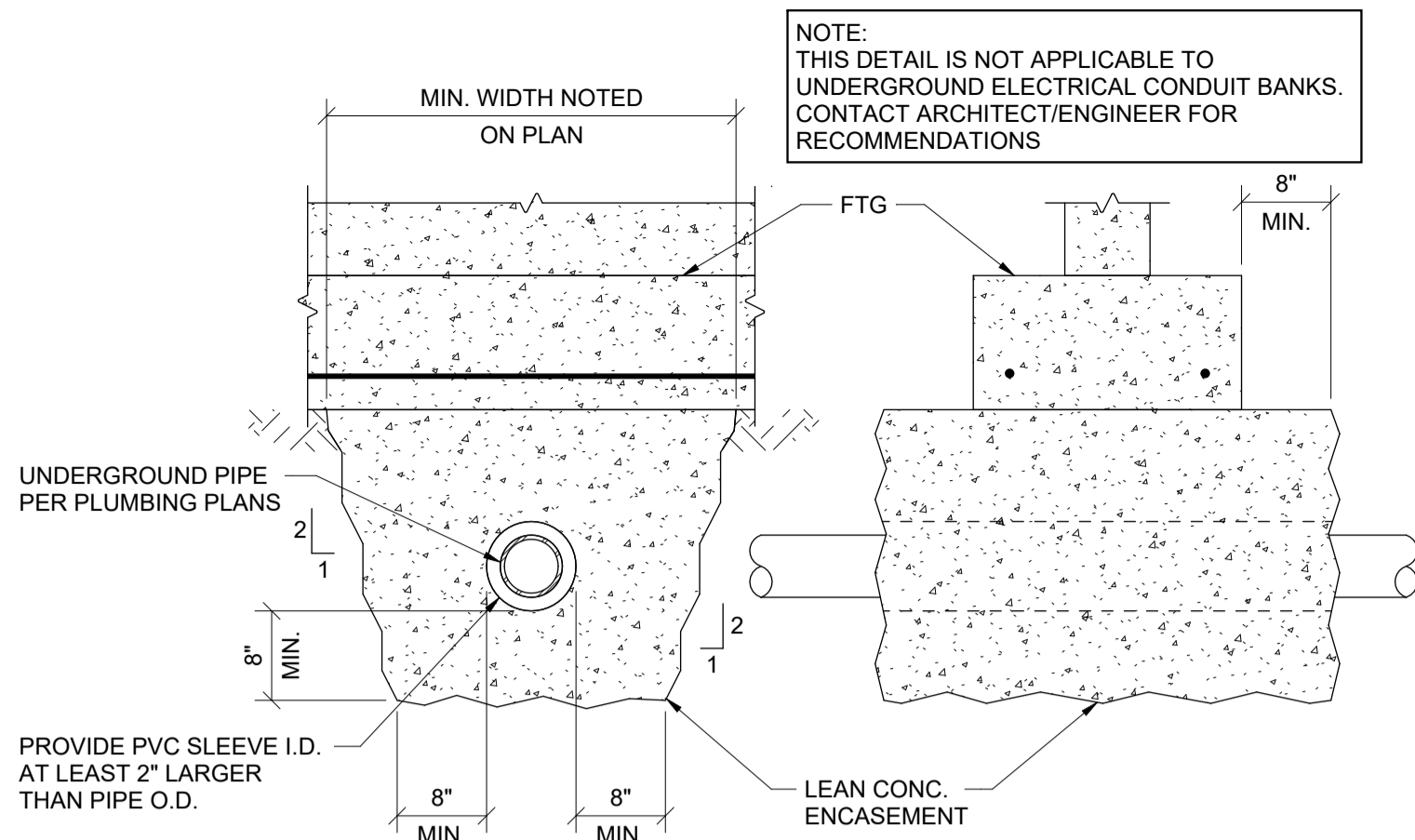


TYPICAL FOOTING STEP

SECTION

3/4" = 1'-0"

3

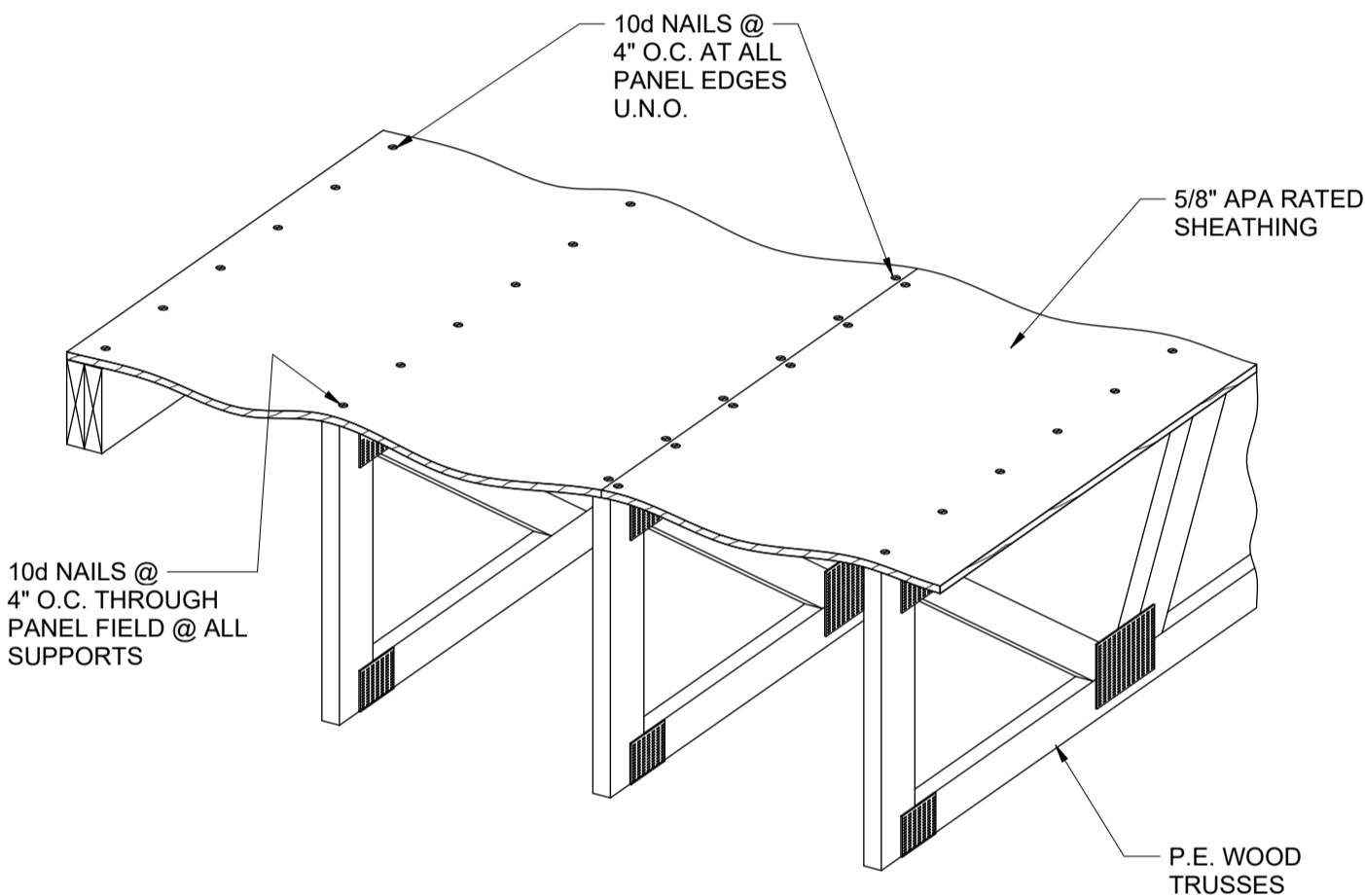


TYPICAL PIPE BELOW FOOTING

SECTION

3/4" = 1'-0"

4

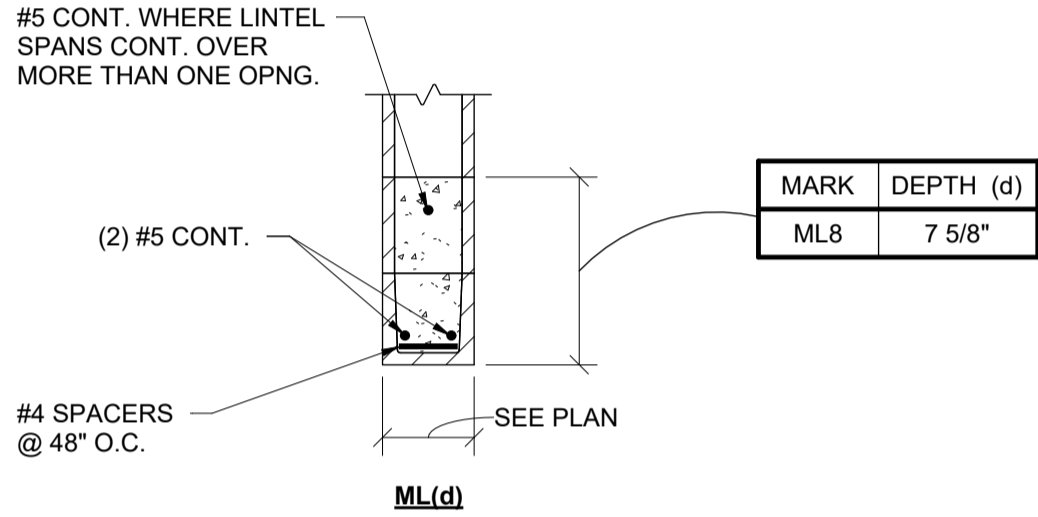


TYPICAL DIAPHRAGM NAILING

SECTION

3/4" = 1'-0"

5



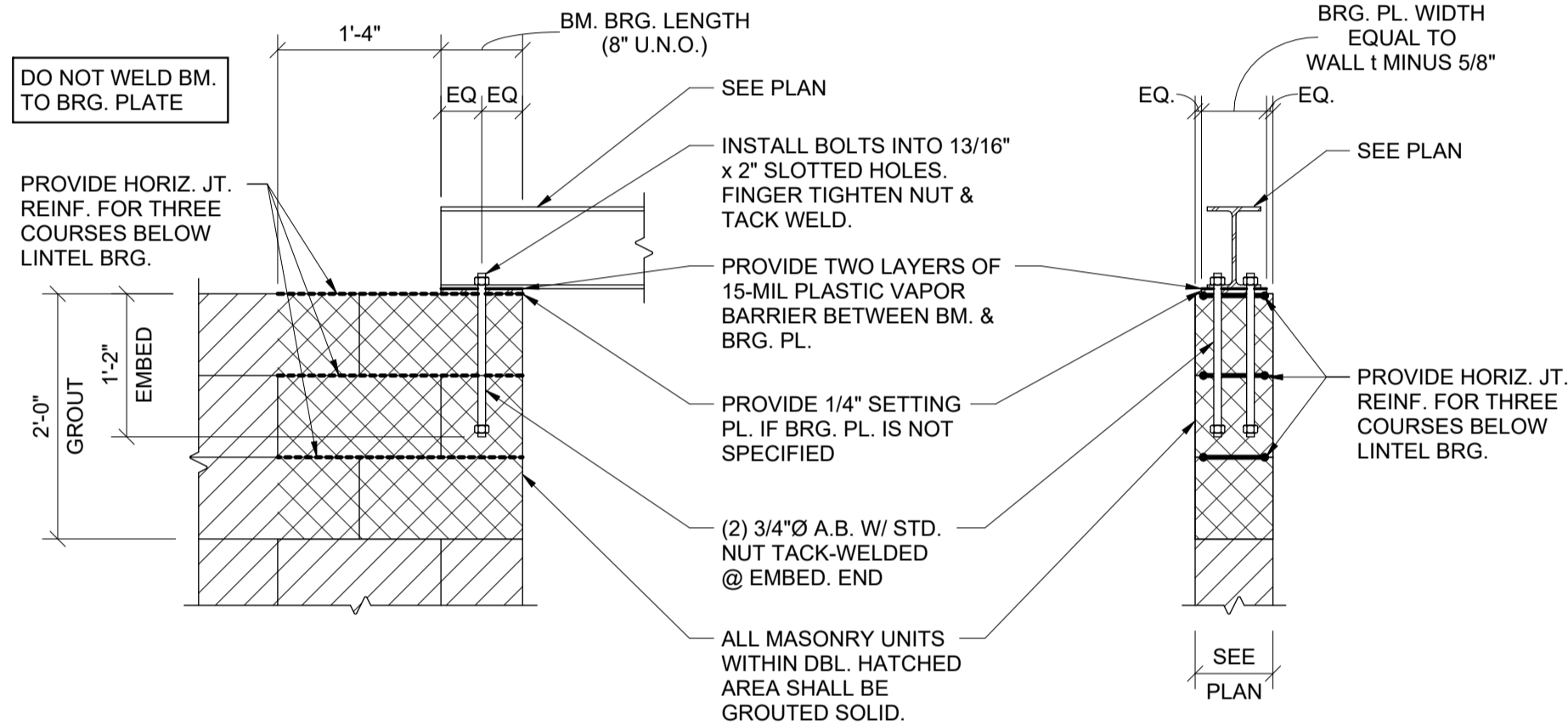
MASONRY LINTEL NOTES

1. FILL IS 2500 PSI (MINIMUM) GROUT. USE FINE GROUT FOR WALLS 6 INCHES AND LESS.
2. LINTELS SHALL BEAR ON SOLID CMU OR ON 2 FILLED COURSES.
3. MAXIMUM SPANS DO NOT APPLY TO LOAD BEARING WALLS.
4. BOND PATTERN OF LINTEL TO MATCH THAT OF SURROUNDING WALL.
5. BOTTOM OF LINTEL SHALL BE SMOOTH MASONRY WITH NO CORES EXPOSED.
6. PROVIDE 8" MINIMUM BEARING EACH END FOR 8" AND 16" DEEP LINTELS. USE 16" MINIMUM BEARING FOR 24" (AND DEEPER) LINTELS.
7. PROVIDE SCORED BLOCK AS REQUIRED TO MATCH ADJACENT WALL FINISH. REFER TO INTERIOR FINISH SCHEDULE FOR LOCATION OF ALL SCORED BLOCK.
8. PROVIDE TWO LAYERS OF 15-MIL PLASTIC VAPOR BARRIER BELOW ALL LINTEL BEARINGS AND CAULK FACE JOINT.

SECTION

3/4" = 1'-0"

6

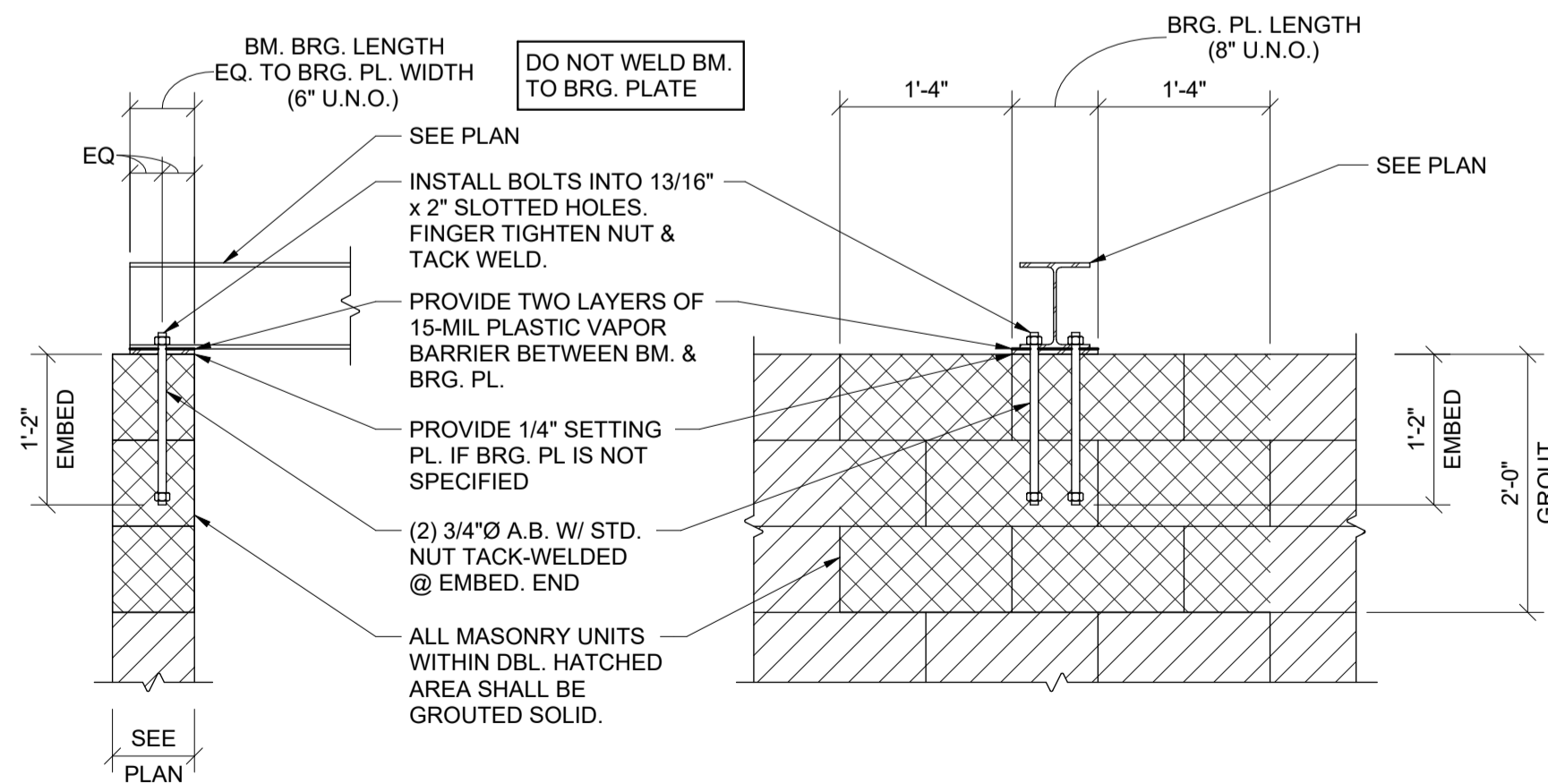


TYPICAL BEAM BEARING PARALLEL TO MASONRY WALL OR AT CORNER OF MASONRY WALL

SECTION

3/4" = 1'-0"

7

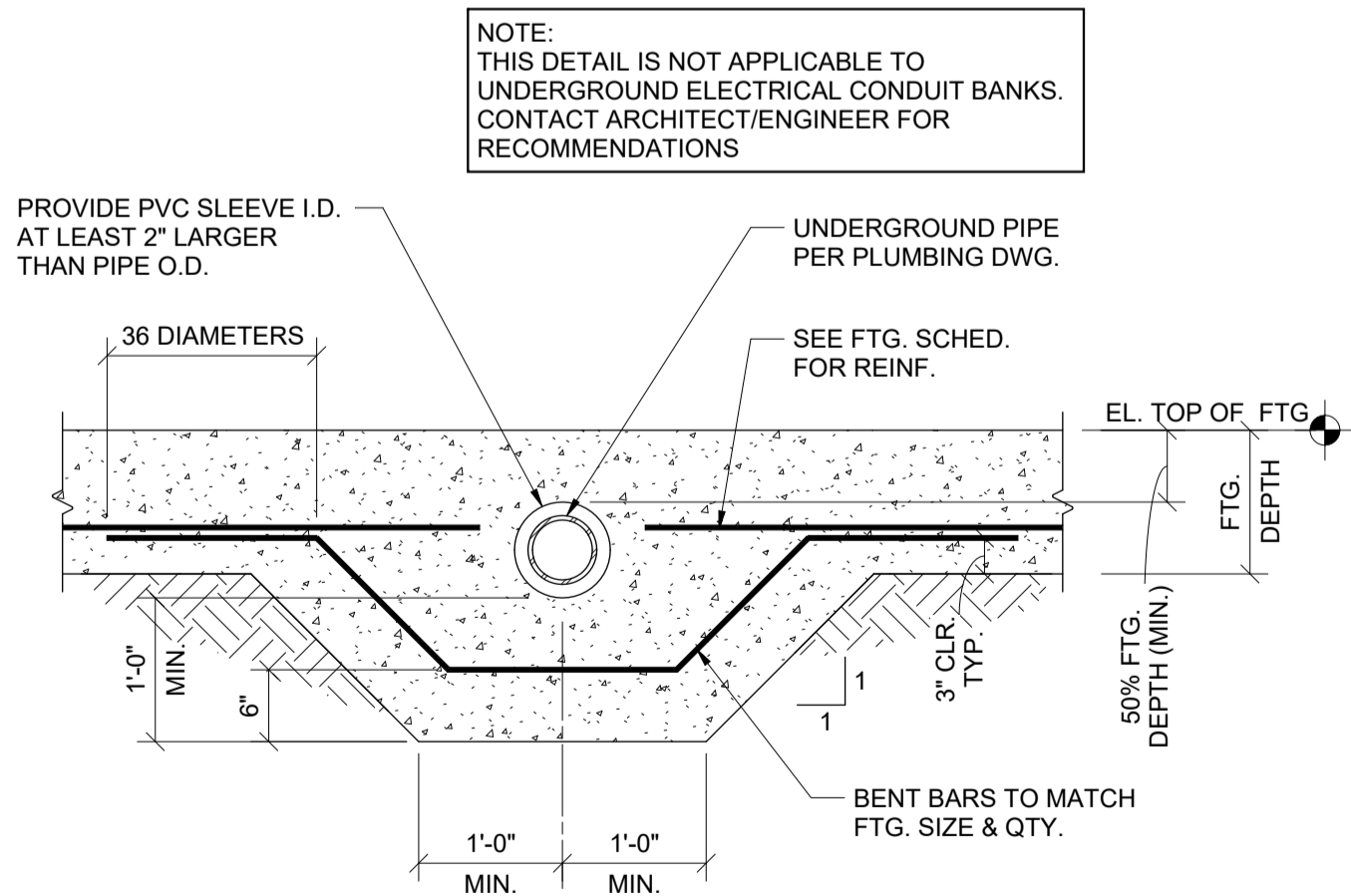


TYPICAL BEAM BEARING PERPENDICULAR TO MASONRY WALL

SECTION

3/4" = 1'-0"

8

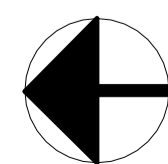







TYPICAL PIPE THROUGH FOOTING

SECTION

3/4" = 1'-0"

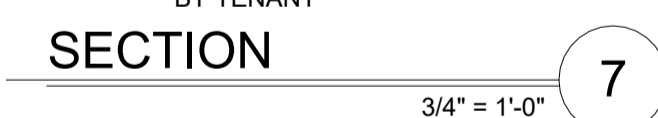
9



ROOF FRAMING NOTES			
1.	DESIGN LIVE LOADS:	FLAT ROOF LIVE LOAD	20 PSF
		WIND (AND NET UPLIFT)	20 PSF AS SHOWN
		MECHANICAL LIVE	
2.	ROOF CONSTRUCTION:	5/8" NOMINAL AREA RATED SHEATHING ON PRE-ENGINEERED WOOD TRUSSES OR 2x FRAMING WITH (2) PANEL CLIPS BETWEEN TRUSSES. UNLESS NOTED OTHERWISE, FASTEN SHEATHING TO SUPPORTS AS INDICATED IN THE GENERAL STRUCTURAL NOTES AND DETAIL 6/5002.	
3.		INDICATES FUTURE ROOF OPENING. NOT ALL OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS. NOTIFY THE ARCHITECT BEFORE PROCEEDING IF OPENINGS CANNOT BE FIT BETWEEN FRAMING MEMBERS.	
	WTF	INDICATES FUTURE TENANT MECHANICAL LOAD SUPPORTED ON ROOF. COORDINATE FINAL SIZE, WEIGHT, LOCATION, AND INSTALLATION REQUIREMENTS WITH TENANT MECHANICAL CONTRACTOR. TOLERANCE FOR LOCATION OF ACTUAL LIFT IS 3 FEET IN ANY DIRECTION FROM THE LOCATION OF THE STRUCTURAL DRAWINGS. WOOD TRUSSES ARE TO BE DESIGNED TO ACCOMMODATE LOADING.	
4.		TRUSS BEARING ELEVATION + 111'-0" UNLESS NOTED OTHERWISE. REFERENCE ELEVATION 100'-0" TOP OF FIRST FLOOR FINISH FLOOR TO THE SCHEDULE.	
		SEE SHEET S100 FOR COLIAR SCHEDULE.	
5.		INDICATES MASONRY WALL FOR WALL OPENINGS PER SCHEDULE. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES. DETAIL 75002 FOR MASONRY LINTELL TYPE AND SCHEDULE, AND SHEET S001 FOR STANDARD HADDER CONSTRUCTION.	
6.		SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT INDICATED HEREIN.	
8.		SEE SHEET S000 FOR GENERAL STRUCTURAL INFORMATION.	



S200



S301

PLUMBING LEGEND

	SANITARY		BALANCING VALVE
	GREASE WASTE		BALL VALVE
	STORM		CONNECT TO EXISTING
	DOMESTIC COLD WATER		PIPE TURNED UP
	DOMESTIC HOT WATER		PIPE TURNED DOWN
	NATURAL GAS		FLOOR PENETRATION MARKER
	VENT		EXISTING SANITARY

ABBREVIATIONS

(D)	DEMOLITION	GPM	GALLONS PER MINUTE
(E)	EXISTING	HB	HOSE BIBB
(F)	FUTURE	INV	INVERT
(R)	RELOCATE	IW	INDIRECT WASTE
AAV	AIR ADMITTANCE VALVE	LF	LINEAR FEET
ABV	ABOVE	LG	LENGTH
AFF	ABOVE FINISHED FLOOR	M	METER
AFG	ABOVE FINISHED GRADE	MAX	MAXIMUM
AUTO	AUTOMATIC	MIN	MINIMUM
AVG	AVERAGE	N/A	NOT APPLICABLE
BFF	BELOW FINISHED FLOOR	NTS	NOT TO SCALE
BFP	BACKFLOW PREVENTER	OD	OVERFLOW DRAIN
CO	CLEANOUT	PSI	POUNDS PER SQUARE INCH
CONN	CONNECTION OR CONNECT	PSIG	PSI GAUGE
CONT	CONTINUATION	RPZ	REDUCED PRESSURE ZONE
DCW	DOMESTIC COLD WATER	SH	SHOWER
DEPT	DEPARTMENT	SRD	SECONDARY ROOF DRAIN
DHW	DOMESTIC HOT WATER	STD	STANDARD
DIA	DIAMETER	STR	STRAINER
EW	ELECTRIC WATER COOLER	TEMP	TEMPERATURE
EXH	EXHAUST	TMV	THERMOSTATIC MIXING VALVE
FD	FLOOR DRAIN	TOP	TOP OF PIPE
FIN	FINISHED	TWS	TEMPERED WATER SUPPLY
FT	FOOT OR FEET	TYP	TYPICAL
G	GAS	UNO	UNLESS NOTED OTHERWISE
GA	GAUGE	UR	URINAL
GAL	GALLONS	V	VENT
GPD	GALLONS PER DAY	VTR	VENT THRU ROOF
GPH	GALLONS PER HOUR	WC	WATER CLOSET

PLUMBING EQUIPMENT SCHEDULE SHELL

TAG	ITEM	MANUFACTURER	MODEL NO.	DESCRIPTION
WH-1	HOSE BIBB	WOODFORD	MODEL 65	PLUMBING CONTRACTOR TO FURNISH AND INSTALL WALL HYDRANT; ANTI-SIPHON, AUTOMATIC DRAINING QUARTER TURN WALL HYDRANT, NON-FREEZE INTEGRAL VACUUM BREAKER, ALL BRONZE INTERIOR PARTS, KEY OPERATED, 3/4" SOLDER INLET.

PLUMBING DRAIN AND CLEANOUT SCHEDULE SHELL

TAG	ITEM	MANUFACTURER	MODEL NO.	DESCRIPTION
DN-1	DOWNSPOUT NOZZLE	WATTS	RD-950	STAINLESS STEEL DOWNSPOUT COVER WITH PERFORATED HINGED STRAINER.
ECO	EXTERIOR CLEANOUT	J.R. SMITH	4100S	CAST IRON BODY ADJUSTABLE CLEANOUT WITH ANCHOR FLANGE, HEAVY DUTY CAST IRON ROUND SCIORATED FRAME AND TOP, AND BOTTOM GASKET CONNECTION OUTLET. PROVIDE A FRAME AND COVER SIMILAR TO NEENAH R-1977 AND SET TOP OF CASTING FLUSH WITH ADJACENT FINISHED PAVEMENT.
OD-1	OVERFLOW DRAIN	WATTS	RD-103-W	PROVIDE SAME AS RD-1. FURNISH WITH 4" HIGH INTERNAL WATER DAM. PIPE SIZE AS INDICATED.
RD-1	ROOF DRAIN	WATTS	RD-103	EPOXY COATED CAST IRON ROOF DRAIN WITH FLASHING CLAMP WITH INTERNAL GRAVEL STOP. SELF LOCKING POLYETHYLENE DOME AND NO HUB OUTLET.

STORM DRAINAGE CALCULATIONS

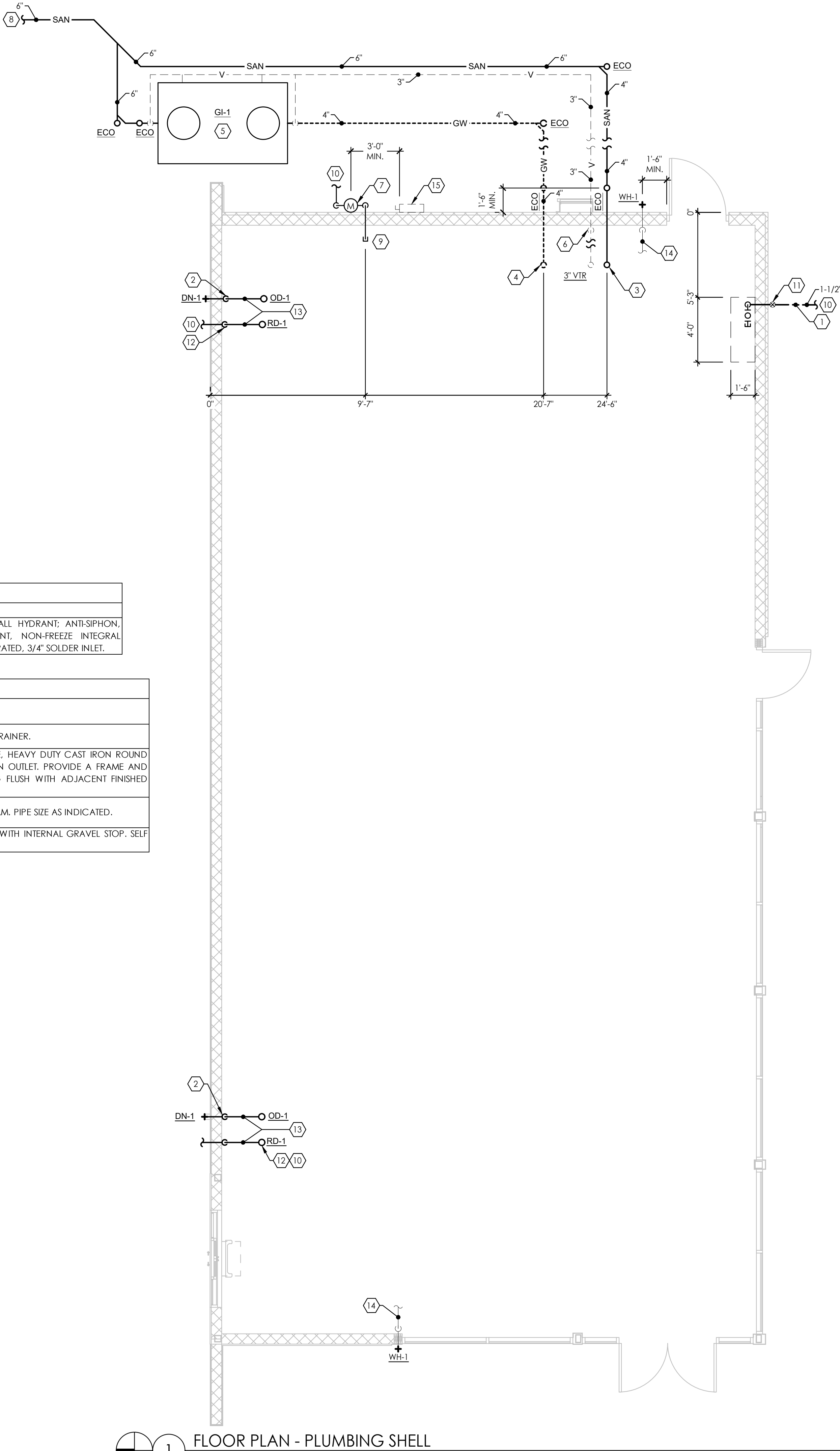
BASED ON 2018 IPC 1106 U.N.O.

PROPERTY INPUTS		RESULTS	
L ₁ , Roof length [FT]	68	Q, TOTAL RAINFALL [GPM]	128.6
W ₁ , Roof width [FT]	33	VERTICAL DRAIN SIZE [E.A.] [IN"]	3
W ₂ , Vertical roof width [FT]	203	HORIZONTAL DRAIN SIZE (1/16" SLOPE) [IN"]	4
L ₂ , Vertical roof height [FT]	5	HORIZONTAL DRAIN SIZE (1/8" SLOPE) [IN"]	4
R, Rainfall rate [IN/HR] ³	4.5	HORIZONTAL DRAIN SIZE (1/4" SLOPE) [IN"]	3
DRAIN QUANTITY	2	HORIZONTAL DRAIN SIZE (1/2" SLOPE) [IN"]	3

THEREFORE, THE STORM DRAINAGE SYSTEM SHALL BE COMPRISED OF:

- (2) PRIMARY DRAINS
- (2) SECONDARY DRAINS
- 3" VERTICAL PIPING DOWN IN WALL AND
- 3" HORIZONTAL PIPING SLOPED AT
- 1/4" SLOPE IN CEILING SPACE FROM EACH SUMP TO EITHER UNDERGROUND STORM CONNECTION OR OVERFLOW DRAIN FIXTURE.

- NOTES:
1. $Q = R \times A \times 0.0104$; $A = L_1 \times W_1 + 0.5(L_2 \times W_2)$ [EQUATION 11-1, IPC 1106.2.1, 1106.5]
 2. DERIVED FROM TABLE 1106.2
 3. DERIVED FROM FIGURES 1106.1(1)-5



GENERAL NOTES:

- ALL PLUMBING WORK SHALL BE IN STRICT COMPLIANCE WITH STATE, CITY & LOCAL CODE REQUIREMENTS.
- ALL PLUMBING MUST BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL PLUMBING CODE IN THE PRESENCE OF THE PLUMBING INSPECTOR.
- THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE PLUMBING SYSTEMS STUBBED INTO TENANT SPACE PER APPLICABLE CODES INCLUDING REQUIRED COMPONENTS, OFFSETS REQUIRED TO AVOID THE STRUCTURE, ETC.
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.
- PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT. PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.
- PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
- CONTRACTOR SHALL PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL PLUMBING SYSTEMS.
- PLUMBING VENT PIPING THRU THE ROOF SHALL BE LOCATED 10'-0" FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET.
- MINIMUM UNDERGROUND SANITARY SEWER PIPE SIZE SHALL BE 4". MINIMUM SLOPE OF UNDERGROUND SANITARY WASTE PIPING SHALL BE 1/8" PER FOOT FOR PIPING 3" AND LARGER. MINIMUM SLOPE OF UNDERGROUND GREASE WASTE PIPING AND SANITARY WASTE PIPING 2-1/2" AND SMALLER SHALL BE 1/4" PER FOOT.
- GENERAL CONTRACTOR SHALL COORDINATE WATER AND GAS METER LOCATIONS AND INSTALLATIONS WITH TENANT REQUIREMENTS, LOCAL AUTHORITIES AND CIVIL DRAWINGS.
- FUEL GAS PIPING, VENTING SYSTEMS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE INTERNATIONAL FUEL GAS CODE.
- ANY PIPE THAT PASSES THROUGH A FOUNDATION WALL SHALL BE PROVIDED WITH A RELIEVING ARCH, OR A PIPE SLEEVE PIPE SHALL BE BUILT INTO THE FOUNDATION WALL. THE SLEEVE SHALL BE TWO PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH THE WALL. CAST IRON PIPE SLEEVE WITH LINK SEAL SHALL BE USED FOR ALL PIPING PASSING THROUGH A FOUNDATION WALL AND SLAB ON GRADE.
- COORDINATE UNDERGROUND PIPING WITH WALL AND COLUMN FOOTINGS AND GRADE BEAMS.
- PLUMBING CONTRACTOR TO REMOVE FROM THE SITE ANY SURPLUS EXCAVATION.
- THE REQUIREMENTS AND LOCATION OF THE WATER METER, THE WATER METER REMOTE READER AND WIRING PROVISIONS SHALL BE DETERMINED BY LOCAL WATER AUTHORITY.
- SHUT OFF VALVES ARE REQUIRED ON BOTH SIDES OF WATER METERS.
- SCOPE AND JET EXISTING SANITARY LINES PRIOR TO CONSTRUCTION AND AFTER COMPLETION. VERIFY ALL TIE-IN POINTS FOR SANITARY PIPING PRIOR TO CONSTRUCTION. IF ANY ISSUES ARISE, CONTACT THE ARCHITECT AND ENGINEER OF RECORD IMMEDIATELY.
- VERIFY EXACT SIZE AND LOCATION OF EXISTING SANITARY AND SUPPLY MAINS PRIOR TO CONSTRUCTION. IF ANY DISCREPANCY ARISES, CONTACT THE ARCHITECT AND ENGINEER OF RECORD IMMEDIATELY.
- HOLD ALL ROUGH IN PIPING RISERS 4" ON CENTER OFF INTERIOR FINISHED WALLS UNLESS NOTED OTHERWISE.

CODED NOTES: (#)

- PROVIDE 1-1/2" UNDERGROUND WATER SERVICE FROM SITE CONTRACTOR PROVIDED WATER LINE 5'-0" OUTSIDE BUILDING WALL. CAPACITY SHALL BE A MINIMUM OF 45 GPM AT 60 PSI. PRESSURE SHALL NOT EXCEED 80 PSI. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND LOCAL AUTHORITY REQUIREMENTS. COORDINATE EXACT LOCATION IN FIELD PRIOR TO BID. REFER TO WATER ENTRANCE DETAIL ON SHEET P400 FOR FURTHER INFORMATION. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION AND COORDINATION.
- OVERFLOW (SECONDARY) STORM DRAIN DISCHARGE TO DAYLIGHT AT 12" A.F.F. PROVIDE WALL MOUNTED DISCHARGE NOZZLE (DN-1) WITH REMOVABLE STAINLESS STEEL SCREEN.
- PROVIDE 4" SANITARY WASTE AS INDICATED FOR TENANT CONNECTION. STUB 1'-0" AFF WITH AN INVERT OF AT LEAST 48" BFF.
- PROVIDE 4" GREASE WASTE AS INDICATED FOR TENANT CONNECTION. STUB 1'-0" AFF WITH AN INVERT OF AT LEAST 48" BFF.
- PROVIDE CODE COMPLIANT 1,250 GALLON GREASE INTERCEPTOR. INSTALL PER DETAIL ON SHEET P400. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION.
- PROVIDE 3" VENT FROM GREASE WASTE INLET PIPING AND A 3" VENT FROM GREASE INTERCEPTOR AND RUN INDEPENDENTLY TO 1'-0" AFF INSIDE BUILDING PRIOR TO TYING TOGETHER. RISE 3" COMBINED VENT AND OFFSET AT UNDERSIDE OF ROOF STRUCTURE AND PROVIDE A 3" VTR. REFER TO DETAIL ON SHEET P400. COORDINATE EXACT LOCATION WITH TENANT IMPROVEMENT DRAWINGS PRIOR TO BID. MAINTAIN ALL CODE-REQUIRED CLEARANCES, INCLUDING MINIMUM 10'-0" CLEARANCE FROM ALL OUTSIDE AIR INTAKES.
- NATURAL GAS SERVICE LINE AND METER PROVIDED BY LOCAL GAS PROVIDER. COORDINATE WITH COMPANY TO LOCATE SERVICE REGULATOR RELIEF VENT IN COMPLIANCE WITH CODE CLEARANCES. METER OUTLET PRESSURE SHALL BE NO LESS THAN 7" W.C. WITH A MINIMUM CAPACITY OF 1600 CFH. SITE CONTRACTOR TO PROVIDE GAS PIPING BELOW GROUND FROM METER TO LOCATION SHOWN.
- 6" SANITARY WASTE SEWER, 2% SLOPE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- PROVIDE 2-1/2" NATURAL GAS PIPING FROM SITE CONTRACTOR INTO BUILDING AND CAP. STUB IN AT ELEVATION OF 10'-6" AFF. COORDINATE EXACT LOCATION AND ELEVATION WITH ARCHITECTURAL AND TENANT FITOUT DRAWINGS PRIOR TO BID.
- SEE CIVIL DRAWINGS FOR CONTINUATION.
- CURB STOP FOR DOMESTIC WATER SERVICE. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION.
- PROVIDE PRIMARY AND SECONDARY STORM DRAINAGE PIPING FROM RD-1 AND OD-1 DOWN IN WALL. PROVIDE CLEANOUT AT MINIMUM 18" AFF. COORDINATE DEPTH OF INVERT WITH CIVIL DRAWINGS. SIZE AND SLOPE PIPING PER SCHEDULE THIS SHEET.
- ROUTE DRAIN PIPING AS HIGH TO ROOF DECK AND AS TIGHT TO WALL AS POSSIBLE. COORDINATE EXACT LOCATION AND ROUTING WITH TENANT PRIOR TO BID.
- PROVIDE INSULATED 1/2" DCW PIPING IN WALL TO KEYED FROST-FREE RECESSED EXTERIOR HOSE BIBB PER SCHEDULE. MOUNT HOSE BIBB 24" A.F.F. STUB COPPER PIPE ABOVE CEILING EXPOSED AND VISIBLE FOR FUTURE CONNECTION BY TENANT. COORDINATE EXACT LOCATION IN FIELD PRIOR TO BID. ENSURE DEVICE FALLS OUTSIDE OF DOOR CLEARANCES WHERE APPLICABLE.
- ELECTRICAL GEAR SHOWN FOR REFERENCE PURPOSES ONLY. MAINTAIN ALL CODE, AHJ, AND UTILITY PROVIDER REQUIRED CLEARANCES. COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO BID.

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BID SET

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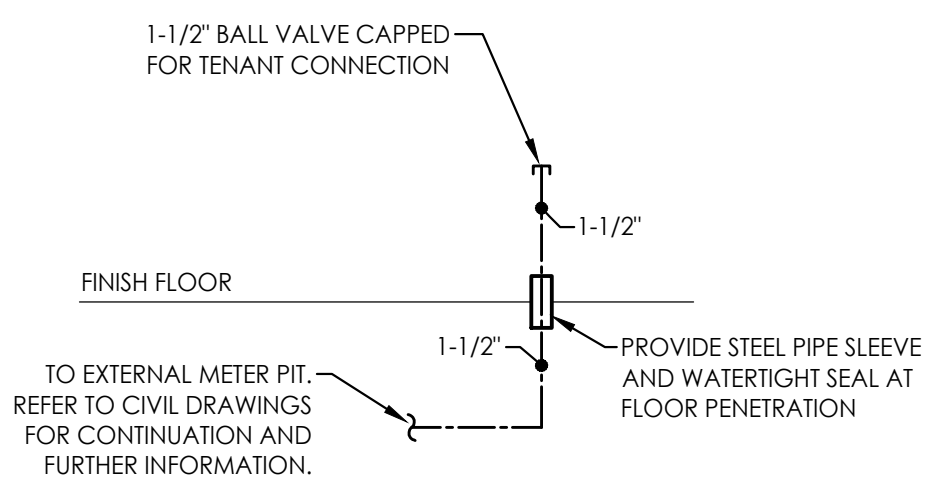
WASTE, VENT, & SUPPLY PLAN
PLUMBING SHELL

P100

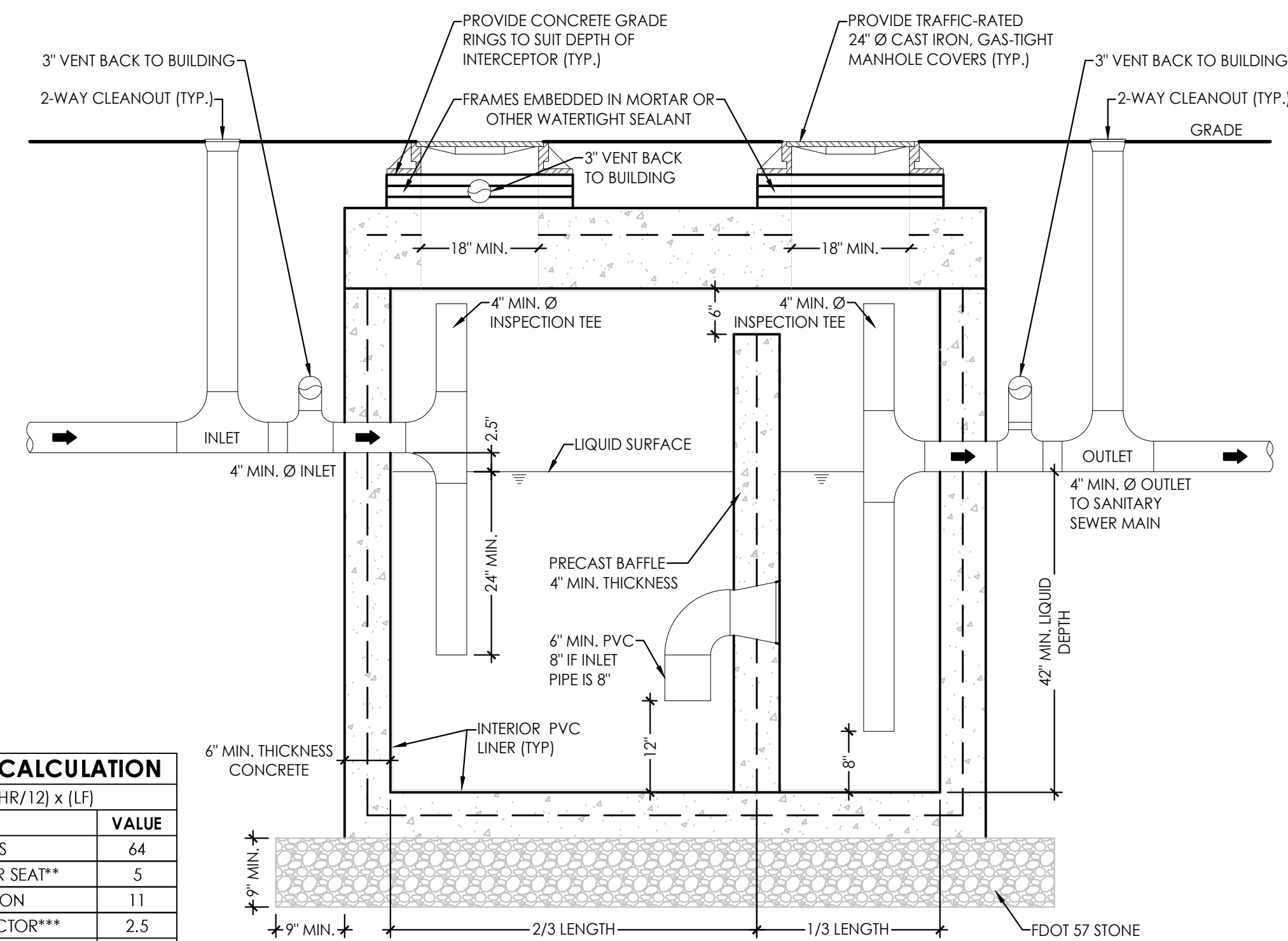


INSTALLATION AND MATERIALS TO BE IN ACCORDANCE TO LOCAL WATER AUTHORITY REQUIREMENTS

1. WATER SERVICE ENTRANCE MATERIALS, INSTALLATION AND ALL COMPONENTS (INCLUDING BUT NOT LIMITED TO METERS AND BACKFLOW PREVENTERS) TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL WATER AUTHORITY, VERIFIED IN ADVANCE OF ANY WORK.
2. ALL REDUCED PRESSURE ZONE PRINCIPLE BACKFLOW PREVENTERS TO BE COMPLETELY APPROVED ASSEMBLIES IN ACCORDANCE WITH BUT NOT LIMITED TO TEST COCKS AND AIR GAP FITTINGS AT VENT/DRAIN CONNECTION POINT. ASSEMBLIES TO BE AS LISTED IN ASSE 1013, APPROVED BY THE LOCAL BACKFLOW PREVENTION AUTHORITY.
3. PROVIDE FLOOR AND WALL SUPPORT ASSEMBLIES AS REQUIRED TO SECURE AND SUPPORT ITEMS INDICATED AT STRUCTURE.



3 DOWNSPOUT DETAIL
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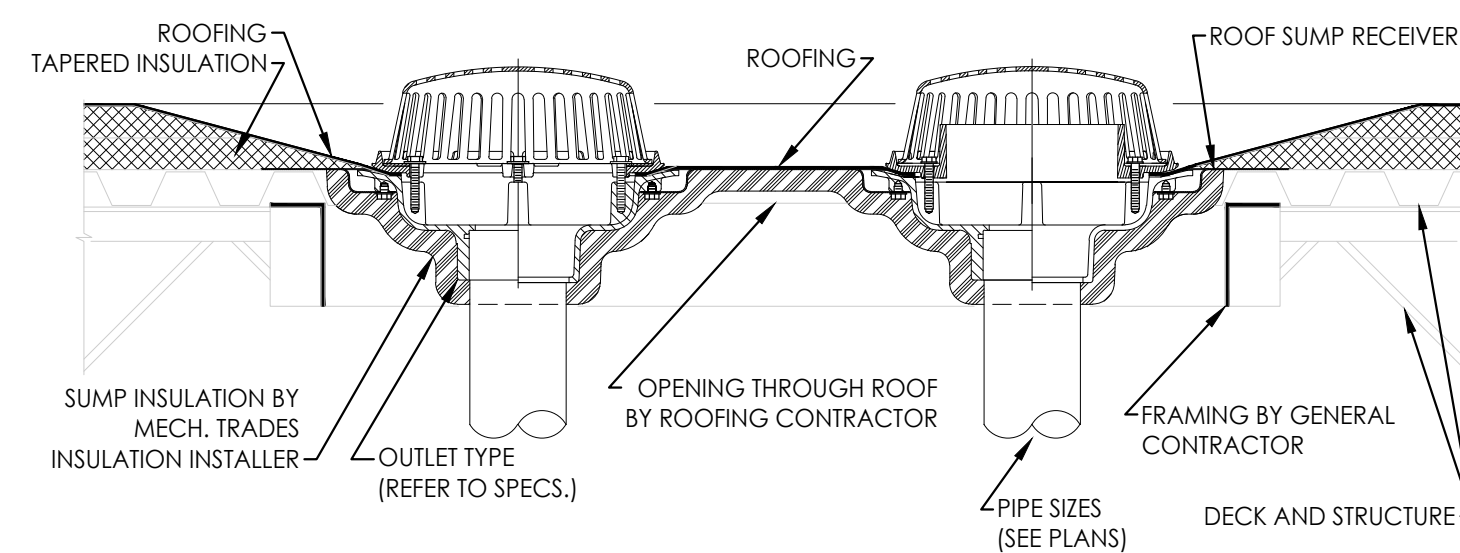


NOTES:

1. SPECIFIC DESIGN DETAILS MUST IN ALL ASPECTS MEET APPLICABLE FLORIDA PLUMBING AND ADMINISTRATIVE CODE.
2. SIZE GREASE INTERCEPTOR PER OCJ MANUAL, SECTION 2310. MINIMUM SIZE 750 GAL; MAXIMUM SIZE 1250 GAL.
3. ALL INTERCEPTORS SHALL BE WET WELL AND GAS TIGHT.
4. ALL FIXTURES LOCATED IN FOOD AND BEVERAGE PREPARATION AREAS SHALL BE ROUTED THROUGH GREASE INTERCEPTOR. RESTROOM WASTE SHALL NOT BE ROUTED THROUGH INTERCEPTOR.
5. BAFFLE REQUIRED; ALTERNATIVE DESIGNS ARE ACCEPTABLE. DESIGN MUST MEET FLORIDA PLUMBING AND ADMINISTRATIVE CODE.
6. LOADS: H-20 TUCK WHEELS WITH 30% IMPACT PER AASHTO. TRAFFIC BEARING FRAME AND COVER TO MEET FOOT STANDARDS IF APPLICABLE.

GREASE INTERCEPTOR SIZE CALCULATION		
FORMULA*:	$(S) \times (GS) \times (ST) \times (HR/12) \times (LF)$	
FACTOR	DESCRIPTION	VALUE
S	NUMBER OF SEATS	64
GS	GALLONS OF WASTE PER SEAT**	5
HR	HOURS OF OPERATION	11
ST	STORAGE CAPACITY FACTOR***	2.5
LF	LOADING FACTOR	1.25
MINIMUM SIZE REQUIREMENT [GAL.:		916.7
SIZE PROVIDED [GAL.:		1250

*DERIVED FROM IPC 1003.3.5
**RESTAURANT GS = 5
***MAXIMUM VALUE = 2.5



The diagram illustrates the installation of a gas service line. It shows the path from the **CUSTOMER SERVICE LINE** (located below the **FINISH FLOOR**) through a **TENANT STOP VALVE** and a **SERVICE REGULATOR** (both located above the **GRADE**). The line then passes through a **SERVICE STOP VALVE** and enters the **BUILDING WALL** at the **FINISH FLOOR** level. A **GAS METER** is installed on the exterior wall, and the line continues into the building. A note indicates: **PROVIDE GAS LINE INTO THE BUILDING AND CAP. COORDINATE EXACT LOCATION AND ELEVATION OF PENETRATION PRIOR TO BID.** The diagram is divided into **EXTERIOR** and **INTERIOR** sections by the building wall.

NOTE:
NATURAL GAS SERVICE, VALVES, PRESSURE REGULATOR AND METER PROVIDED BY LOCAL GAS COMPANY. LANDLORD SHALL PAY ALL GAS COMPANY FEES FOR INSTALLATION.

P400

SPECIFICATIONS - DIVISION 22 - PLUMBING

SECTION 220500 - COMMON WORK RESULTS FOR PLUMBING

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. HANGERS AND SUPPORTS FOR PLUMBING PIPING EQUIPMENT:

- 1. STRUCTURAL PERFORMANCE: HANGERS AND SUPPORTS SHALL WITHSTAND THE EFFECTS OF GRAVITY LOADS AND STRESSES WITHIN LIMITS AND UNDER CONDITIONS INDICATED ACCORDING TO ASCE/SEI 7.
- a. DESIGN SUPPORTS FOR MULTIPLE PIPES CAPABLE OF SUPPORTING COMBINED WEIGHT OF SUPPORTED SYSTEMS, AND SYSTEM CONTENTS.
- b. DESIGN EQUIPMENT SUPPORTS CAPABLE OF SUPPORTING COMBINED OPERATING WEIGHT OF SUPPORTED EQUIPMENT AND CONNECTED SYSTEMS AND COMPONENTS.
- c. DESIGN SEISMIC-RESTRAINT HANGERS AND SUPPORTS FOR PIPING AND EQUIPMENT AND OBTAIN APPROVAL FROM AUTHORITIES HAVING JURISDICTION.

2.2 SLEEVES AND SLEEVE SEALS

- A. GALVANIZED-STEEL-PIPE SLEEVES: ASTM A 53/A 53M, TYPE E, GRADE B, SCHEDULE 40, ZINC COATED, WITH PLAIN ENDS.
- B. PVC-PIPE SLEEVES: ASTM D 1785, SCHEDULE 40.
- C. GALVANIZED-STEEL-SHEET SLEEVES: 0.0239-INCH MINIMUM THICKNESS; ROUND TUBE CLOSED WITH WELDED LONGITUDINAL JOINT.

2.3 GROUT

- A. STANDARD: ASTM C 1107/C 1107M, GRADE B, POST-HARDENING AND VOLUME-ADJUSTING, DRY, HYDRAULIC-CEMENT GROUT.
- 1. CHARACTERISTICS: NONSHRINK; RECOMMENDED FOR INTERIOR AND EXTERIOR APPLICATIONS.
- 2. DESIGN MIX: 5000-PSI, 28-DAY COMPRESSIVE STRENGTH.
- 3. PACKAGING: PREMIXED AND FACTORY PACKAGED.

2.4 ESCUTCHEONS AND FLOOR PLATES

- A. ONE-PIECE, DEEP-PATTERN TYPE: DEEP-DRAWN, BOX-SHAPED BRASS WITH CHROME-PLATED FINISH AND SPRING-CLIP FASTENERS.
- B. ONE-PIECE, STAMPED-STEEL TYPE: WITH CHROME-PLATED FINISH AND SPRING-CLIP FASTENERS.
- C. ONE-PIECE FLOOR PLATES: CAST-IRON FLANGE WITH HOLES FOR FASTENERS.

2.6 HANGERS AND SUPPORTS FOR PLUMBING PIPING EQUIPMENT

A. CARBON-STEEL PIPE HANGERS AND SUPPORTS:

- 1. DESCRIPTION: MSS SP-58, TYPES 1 THROUGH 58, FACTORY-FABRICATED COMPONENTS.
- 2. GALVANIZED METALLIC COATINGS: PREGALVANIZED OR HOT DIPPED.
- 3. NONMETALLIC COATINGS: PLASTIC COATING, JACKET, OR LINER.
- 4. PADDED HANGERS: HANGER WITH FIBERGLASS OR OTHER PIPE INSULATION PAD OR CUSHION TO SUPPORT BEARING SURFACE OF PIPING.
- 5. HANGER RODS: CONTINUOUS-THREAD ROD, NUTS, AND WASHER MADE OF CARBON STEEL.

B. COPPER PIPE HANGERS:

- 1. DESCRIPTION: MSS SP-58, TYPES 1 THROUGH 58, COPPER-COATED-STEEL, FACTORY-FABRICATED COMPONENTS.
- 2. HANGER RODS: CONTINUOUS-THREAD ROD, NUTS, AND WASHER MADE OF COPPER-COATED STEEL.

C. FASTENER SYSTEMS:

- 1. MECHANICAL-EXPANSION ANCHORS: INSERT-WEDGE-TYPE, ZINC-COATED STEEL ANCHORS, FOR USE IN HARDENED PORTLAND CEMENT CONCRETE; WITH PULL-OUT, TENSION, AND SHEAR CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS WHERE USED.
- D. MISCELLANEOUS MATERIALS:
- 1. STRUCTURAL STEEL: ASTM A 36/A 36M, CARBON-STEEL PLATES, SHAPES, AND BARS; BLACK AND GALVANIZED.
- 2. GROUT: ASTM C 1107, FACTORY-MIXED AND -PACKAGED, DRY, HYDRAULIC-CEMENT, NONSHRINK, AND NONMETALLIC GROUT; SUITABLE FOR INTERIOR AND EXTERIOR APPLICATIONS.
- a. PROPERTIES: NONSTAINING, NONCORROSIVE, AND NONGASEOUS.
- b. DESIGN MIX: 5000-PSI, 28-DAY COMPRESSIVE STRENGTH.

PART 3 - EXECUTION

3.1 GENERAL PIPING INSTALLATIONS

- A. INSTALL PIPING FREE OF SAGS AND BENDS.
- B. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS.
- C. SLEEVES:

- 1. INSTALL SLEEVES FOR PIPING PASSING THROUGH PENETRATIONS IN FLOORS, PARTITIONS, ROOFS, AND WALLS.
- 2. INSTALL SLEEVES IN CONCRETE FLOORS, CONCRETE ROOF SLABS, AND CONCRETE WALLS AS NEW SLABS AND WALLS ARE CONSTRUCTED.
- a. USE GROUT AND SEAL THE SPACE OUTSIDE OF SLEEVES IN SLABS AND WALLS WITHOUT SLEEVE-SEAL SYSTEM.
- 3. INSTALL SLEEVES FOR PIPES PASSING THROUGH INTERIOR PARTITIONS.
- 4. FIRE-BARRIER PENETRATIONS: MAINTAIN INDICATED FIRE RATING OF WALLS, PARTITIONS, CEILINGS, AND FLOORS AT PIPE PENETRATIONS. SEAL PIPE PENETRATIONS WITH FIRESTOP MATERIALS. COMPLY WITH REQUIREMENTS FOR FIRESTOPPING SPECIFIED IN SECTION 078446 "PENETRATION FIRESTOPPING."

D. ESCUTCHEONS AND FLOOR PLATES:

- 4. INSTALL ESCUTCHEONS FOR PIPING PENETRATIONS OF WALLS, CEILINGS, AND FINISHED FLOORS.
- 5. INSTALL ESCUTCHEONS WITH ID TO CLOSELY FIT AROUND PIPE, TUBE, AND INSULATION OF PIPING AND WITH OD THAT COMPLETELY COVERS OPENING.
- 6. INSTALL FLOOR PLATES FOR PIPING PENETRATIONS OF EQUIPMENT-ROOM FLOORS.
- 7. INSTALL FLOOR PLATES WITH ID TO CLOSELY FIT AROUND PIPE, TUBE, AND INSULATION OF PIPING AND WITH OD THAT COMPLETELY COVERS OPENING.

G. INSTALL UNIONS AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT.

H. INSTALL DIELECTRIC UNIONS AND FLANGES TO CONNECT PIPING MATERIALS OF DISSIMILAR METALS IN GAS PIPING.

I. INSTALL DIELECTRIC COUPLING AND NIPPLE FITTINGS TO CONNECT PIPING MATERIALS OF DISSIMILAR METALS IN WATER PIPING.

3.2 HANGERS AND SUPPORTS

- A. COMPLY WITH MSS SP-69 AND MSS SP-89. INSTALL BUILDING ATTACHMENTS WITHIN CONCRETE OR TO STRUCTURAL STEEL.
- B. INSTALL HANGERS AND SUPPORTS TO ALLOW CONTROLLED THERMAL AND SEISMIC MOVEMENT OF PIPING SYSTEMS.
- C. INSTALL POWDER-ACTUATED FASTENERS AND MECHANICAL-EXPANSION ANCHORS IN CONCRETE AFTER CONCRETE IS CURED. DO NOT USE IN LIGHTWEIGHT CONCRETE OR IN

SLABS LESS THAN 4 INCHES THICK.

D. LOAD DISTRIBUTION: INSTALL HANGERS AND SUPPORTS SO PIPING LIVE AND DEAD LOADING AND STRESSES FROM MOVEMENT WILL NOT BE TRANSMITTED TO CONNECTED EQUIPMENT.

E. HORIZONTAL-PIPING HANGERS AND SUPPORTS: UNLESS OTHERWISE INDICATED AND EXCEPT AS SPECIFIED IN PIPING SYSTEM SPECIFICATION SECTIONS, INSTALL THE FOLLOWING TYPES:

- 8. ADJUSTABLE STEEL CLEVIS HANGERS (MSS TYPE 1): FOR SUSPENSION OF NONINSULATED OR INSULATED STATIONARY PIPES, NPS 1/2 TO NPS 30.
- 9. PIPE HANGERS (MSS TYPE 5): FOR SUSPENSION OF PIPES, NPS 1/2 TO NPS 4, TO ALLOW OFF-CENTER CLOSURE FOR HANGER INSTALLATION BEFORE PIPE ERECTION.
- 10. ADJUSTABLE STEEL BAND HANGERS (MSS TYPE 7): FOR SUSPENSION OF NONINSULATED STATIONARY PIPES, NPS 1/2 TO NPS 8.
- 11. ADJUSTABLE BAND HANGERS (MSS TYPE 9): FOR SUSPENSION OF NONINSULATED STATIONARY PIPES, NPS 1/2 TO NPS 8.
- 12. ADJUSTABLE SWIVEL-RING BAND HANGERS (MSS TYPE 10): FOR SUSPENSION OF NONINSULATED STATIONARY PIPES, NPS 1/2 TO NPS 2.

F. VERTICAL-PIPING CLAMPS: UNLESS OTHERWISE INDICATED AND EXCEPT AS SPECIFIED IN PIPING SYSTEM SPECIFICATION SECTIONS, INSTALL THE FOLLOWING TYPES:

- 1. EXTENSION PIPE OR RISER CLAMPS (MSS TYPE 8): FOR SUPPORT OF PIPE RISERS, NPS 3/4 TO NPS 20.
- 2. CARBON-OR ALLOY-STEEL RISER CLAMPS (MSS TYPE 42): FOR SUPPORT OF PIPE RISERS, NPS 3/4 TO NPS 20, IF LONGER ENDS ARE REQUIRED FOR RISER CLAMPS.

3.3 GENERAL EQUIPMENT INSTALLATIONS

- A. INSTALL EQUIPMENT TO ALLOW MAXIMUM POSSIBLE HEADROOM UNLESS SPECIFIC MOUNTING HEIGHTS ARE NOT INDICATED.
- B. INSTALL EQUIPMENT LEVEL AND PLUMB, PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS, UNLESS OTHERWISE INDICATED.
- C. INSTALL MECHANICAL EQUIPMENT TO FACILITATE SERVICE, MAINTENANCE, AND REPAIR OR REPLACEMENT OF COMPONENTS. CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH MINIMUM INTERFERENCE TO OTHER INSTALLATIONS. EXTEND GREASE FITTINGS TO ACCESSIBLE LOCATIONS.
- D. INSTALL EQUIPMENT TO ALLOW RIGHT OF WAY FOR PIPING INSTALLED AT REQUIRED SLOPE.

END OF SECTION

SECTION 220523 - GENERAL-DUTY VALVES FOR PLUMBING PIPING

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

A. SUBMITTALS:

- 1. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.

PART 2 - PRODUCTS

2.1 SYSTEM DESCRIPTION

- A. ASME COMPLIANCE: ASME B16.10 AND ASME B16.34 FOR FERROUS VALVE DIMENSIONS AND DESIGN CRITERIA.
- B. NSF COMPLIANCE: NSF 61 FOR VALVE MATERIALS FOR POTABLE-WATER SERVICE.

2.2 GENERAL-DUTY VALVES

- A. VALVE SIZES: SAME AS UPSTREAM PIPING UNLESS OTHERWISE INDICATED.
- B. VALVES IN INSULATED PIPING: WITH 2-INCH STEM EXTENSIONS.
- C. END CONNECTIONS: THREADS SHALL COMPLY WITH ANSI B1.20.1. FLANGES SHALL COMPLY WITH ANSI B16.24 FOR BRONZE VALVES. SOLDER-JOINT CONNECTIONS SHALL COMPLY WITH ANSI B16.18.
- D. ONE-PIECE, COPPER-ALLOY BALL VALVES: LEAD FREE BRONZE BODY WITH CHROME-PLATED BRASS BALL, MITE SEATS, AND 600-PSIG MINIMUM CWP RATING.
- E. TWO-PIECE, COPPER-ALLOY BALL VALVES: LEAD FREE BRONZE BODY WITH FULL-PORT, CHROME-PLATED BRASS BALL; RPTFE SEATS; AND 600-PSIG MINIMUM CWP RATING AND BLOWOUT-PROOF STEM.
- F. LEAD FREE BRONZE, SWING CHECK VALVES: CLASS 125, BRONZE BODY WITH BRONZE DISC AND SEAT.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. USE BALL VALVES FOR SHUTOFF DUTY AND FOR THROTTLING DUTY.
- B. LOCATE VALVES FOR EASY ACCESS AND PROVIDE SEPARATE SUPPORT WHERE NECESSARY.
- C. INSTALL VALVES FOR EACH FIXTURE AND ITEM OF EQUIPMENT.
- D. INSTALL VALVES IN HORIZONTAL PIPING WITH STEM AT OR ABOVE CENTER OF PIPE.
- E. INSTALL VALVES IN A POSITION TO ALLOW FULL STEM MOVEMENT.
- F. INSTALL CHECK VALVES FOR PROPER DIRECTION OF FLOW IN HORIZONTAL POSITION WITH HINGE PIN LEVEL.

END OF SECTION 220523

SECTION 220700 - PLUMBING INSULATION

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. INSULATION INSTALLED INDOORS: FLAME-SPREAD INDEX OF 25 OR LESS, AND SMOKE-DEVELOPED INDEX OF 50 OR LESS ACCORDING TO ASTM E 84.

2.2 INSULATION MATERIALS

- A. MINERAL-FIBER, PREFORMED PIPE INSULATION: COMPLY WITH ASTM C 547, TYPE I, GRADE A, WITH FACTORY-APPLIED ASJ.
- 1. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
 - a. JOHNS MANVILLE; MICRO-LOK.
 - b. KNAUF INSULATION; 1000-DEGREE PIPE INSULATION.
 - c. OWENS CORNING; FIBERGLAS PIPE INSULATION.
- 2. TYPE I, 850 DEG F MATERIALS: MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. COMPLY WITH ASTM C 547, TYPE I, GRADE A, WITH FACTORY-APPLIED ASJ. FACTORY-APPLIED JACKET REQUIREMENTS ARE SPECIFIED IN "FACTORY-APPLIED JACKETS" ARTICLE.
- B. PROTECTIVE SHIELDING PIPE COVERS:

- 1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
 - a. MCGUIRE MANUFACTURING.
 - b. PLUMBEREX.
 - c. TRUEBRO; A BRAND OF IPS CORPORATION.
 - d. ZURN INDUSTRIES, LLC; TUBULAR BRASS PLUMBING PRODUCTS OPERATION.
- 2. DESCRIPTION: MANUFACTURED PLASTIC WRAPS FOR COVERING PLUMBING FIXTURE

HOT- AND COLD-WATER SUPPLIES AND TRAP AND DRAIN PIPING. COMPLY WITH AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS.

2.3 ADHESIVES

A. MINERAL-FIBER ADHESIVE: COMPLY WITH MIL-A-3316C, CLASS 2, GRADE A.

- 1. FOR INDOOR APPLICATIONS, ADHESIVE SHALL HAVE A VOC CONTENT OF 80 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
- 2. ADHESIVE SHALL COMPLY WITH THE TESTING AND PRODUCT REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES' "STANDARD PRACTICE FOR THE TESTING OF VOLATILE ORGANIC EMISSIONS FROM VARIOUS SOURCES USING SMALL-SCALE ENVIRONMENTAL CHAMBERS."

2.4 MASTICS

A. VAPOR-BARRIER MASTIC: WATER BASED; SUITABLE FOR INDOOR USE ON BELOW AMBIENT SERVICES.

- 1. FOR INDOOR APPLICATIONS, USE MASTICS THAT HAVE A VOC CONTENT OF 50 G/L OR LESS.
- 2. WATER-VAPOR PERMEANCE: ASTM E 96/E 96M, PROCEDURE B, 0.013 PERM AT 43-MIL DRY FILM THICKNESS.
- 3. SERVICE TEMPERATURE RANGE: MINUS 20 TO PLUS 180 DEG F.
- 4. SOLIDS CONTENT: ASTM D 1644, 58 PERCENT BY VOLUME AND 70 PERCENT BY WEIGHT.
- 5. COLOR: WHITE.
- B. BREATHER MASTIC: WATER BASED; SUITABLE FOR INDOOR AND OUTDOOR USE ON ABOVE AMBIENT SERVICES.
- 1. WATER-VAPOR PERMEANCE: ASTM F 1249, 1.8 PERMS AT 0.0625-INCH DRY FILM THICKNESS.
- 2. SERVICE TEMPERATURE RANGE: MINUS 20 TO PLUS 180 DEG F.
- 3. SOLIDS CONTENT: 60 PERCENT BY VOLUME AND 66 PERCENT BY WEIGHT.
- 4. COLOR: WHITE.

2.5 SEALANTS

A. JOINT SEALANTS:

- 1. MATERIALS SHALL BE COMPATIBLE WITH INSULATION MATERIALS, JACKETS, AND SUBSTRATES.
- 2. PERMANENTLY FLEXIBLE, ELASTOMERIC SEALANT.
- 3. SERVICE TEMPERATURE RANGE: MINUS 100 TO PLUS 300 DEG F.
- 4. COLOR: WHITE OR GRAY.
- 5. FOR INDOOR APPLICATIONS, SEALANTS SHALL HAVE A VOC CONTENT OF 420 G/L OR LESS.
- B. ASJ FLASHING SEALANTS:
- 1. MATERIALS SHALL BE COMPATIBLE WITH INSULATION MATERIALS, JACKETS, AND SUBSTRATES.
- 2. FIRE- AND WATER-RESISTANT, FLEXIBLE, ELASTOMERIC SEALANT.
- 3. SERVICE TEMPERATURE RANGE: MINUS 40 TO PLUS 250 DEG F.
- 4. COLOR: WHITE.
- 5. FOR INDOOR APPLICATIONS, SEALANTS SHALL HAVE A VOC CONTENT OF 420 G/L OR LESS.

2.6 FACTORY-APPLIED JACKETS

A. INSULATION SYSTEM SCHEDULES INDICATE FACTORY-APPLIED JACKETS ON VARIOUS APPLICATIONS. WHEN FACTORY-APPLIED JACKETS ARE INDICATED, COMPLY WITH THE FOLLOWING:

- 1. ASJ: WHITE, KRAFT-PAPER, FIBERGLASS-REINFORCED SCRIM WITH ALUMINUM-FOIL BACKING; COMPLYING WITH ASTM C 1136, TYPE I.
- 2.7 TAPES
- A. ASJ TAPE: WHITE VAPOR-RETARDER TAPE MATCHING FACTORY-APPLIED JACKET WITH ACRYLIC ADHESIVE, COMPLYING WITH ASTM C 1136.
- 1. WIDTH: 3 INCHES.
- 2. THICKNESS: 11.5 MILS.
- 3. ADHESION: 90 OUNCES FORCE/INCH IN WIDTH.
- 4. ELONGATION: 2 PERCENT.
- 5. TENSILE STRENGTH: 40 LBF/INCH IN WIDTH.
- 6. ASJ TAPE DISKS AND SQUARES: PRECUT DISKS OR SQUARES OF ASJ TAPE.

PART 3 - EXECUTION

3.1 PIPE INSULATION INSTALLATION

- A. COMPLY WITH REQUIREMENTS OF THE MIDWEST INSULATION CONTRACTORS ASSOCIATION'S "NATIONAL COMMERCIAL & INDUSTRIAL INSULATION STANDARDS" FOR INSULATION INSTALLATION ON PIPES AND EQUIPMENT.
- B. INSULATION INSTALLATION AT INTERIOR WALL AND PARTITION PENETRATIONS (THAT ARE NOT FIRE RATED): INSTALL INSULATION CONTINUOUSLY THROUGH WALLS AND PARTITIONS.
- C. INSULATION INSTALLATION AT FIRE-RATED WALL, PARTITION, AND FLOOR PENETRATIONS: INSTALL INSULATION CONTINUOUSLY THROUGH PENETRATIONS. SEAL PENETRATIONS. COMPLY WITH REQUIREMENTS IN SECTION 078400.
- D. MINERAL-FIBER INSULATION INSTALLATION:
- 1. INSULATION INSTALLATION ON STRAIGHT PIPES AND TUBES: WHERE VAPOR BARRIERS ARE INDICATED, SEAL LONGITUDINAL SEAMS, END JOINTS, AND PROTRUSIONS WITH VAPOR-BARRIER MASTIC AND JOINT SEALANT.
- 2. FOR INSULATION WITH FACTORY-APPLIED JACKETS ON ABOVE AMBIENT SURFACES, SECURE LAPS WITH OUTWARD CLINCHED STAPLES AT 6 INCHES O.C.
- 3. FOR INSULATION WITH FACTORY-APPLIED JACKETS ON BELOW AMBIENT SURFACES, DO NOT STAPLE LONGITUDINAL TABS BUT SECURE TABS WITH ADDITIONAL ADHESIVE AS RECOMMENDED BY INSULATION MATERIAL MANUFACTURER AND SEAL WITH VAPOR-BARRIER MASTIC AND FLASHING SEALANT.

E. INTERIOR PIPING SYSTEM APPLICATIONS: INSULATE THE FOLLOWING PIPING SYSTEMS:

- 1. DOMESTIC HOT WATER.
- 2. RECIRCULATED DOMESTIC HOT WATER.
- 3. EXPOSED WATER SUPPLIES AND SANITARY DRAINS OF FIXTURES FOR PEOPLE WITH DISABILITIES.
- F. DO NOT APPLY INSULATION TO THE FOLLOWING SYSTEMS, MATERIALS, AND EQUIPMENT:
- 1. FLEXIBLE CONNECTORS.
- 2. SANITARY DRAINAGE AND VENT PIPING.
- 3. DRAINAGE PIPING LOCATED IN CRAWLSPACES UNLESS OTHERWISE INDICATED.

- 4. CHROME-PLATED PIPES AND FITTINGS, EXCEPT FOR PLUMBING FIXTURES FOR PEOPLE WITH DISABILITIES.
- 5. PIPING SPECIALTIES, INCLUDING AIR CHAMBERS, UNIONS, STRAINERS, CHECK VALVES, PLUG VALVES, AND FLOW REGULATORS.

3.2 INDOOR PIPING INSULATION SCHEDULE

A. DOMESTIC COLD WATER:

- 1. NPS 1 AND SMALLER: INSULATION SHALL BE THE FOLLOWING:
 - a. MINERAL-FIBER, PREFORMED PIPE INSULATION, TYPE I: 1/2 INCH THICK.
- 2. NPS 1-1/4 AND LARGER: INSULATION SHALL BE THE FOLLOWING:

a. MINERAL-FIBER, PREFORMED PIPE INSULATION, TYPE I: 1 INCH THICK.

B. DOMESTIC HOT AND RECIRCULATED HOT WATER:

- 1. NPS 2 AND SMALLER: INSULATION SHALL BE THE FOLLOWING:

a. MINERAL-FIBER, PREFORMED PIPE INSULATION, TYPE I: 1 INCH THICK.

C. EXPOSED SANITARY DRAINS, DOMESTIC WATER, DOMESTIC HOT WATER, AND STOPS FOR PLUMBING FIXTURES FOR PEOPLE WITH DISABILITIES:

- 1. ALL PIPE SIZES: INSULATION SHALL BE THE FOLLOWING:
 - a. PROTECTIVE SHIELDING PIPING COVERS.
 - b. MANUFACTURED PLASTIC WRAPS FOR COVERING PLUMBING FIXTURE HOT- AND COLD-WATER SUPPLIES AND TRAP AND DRAIN PIPING. COMPLY WITH AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS.

END OF SECTION

SECTION 221116 - DOMESTIC WATER PIPING

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. POTABLE-WATER PIPING AND COMPONENTS SHALL COMPLY WITH NSF 14 AND NSF 61.

2.2 PIPE AND FITTINGS

A. HARD COPPER TUBING: ASTM B 88, TYPE L, WATER TUBE, DRAWN TEMPER WITH WROUGHT-COPPER, SOLDER-JOINT FITTINGS. FURNISH WROUGHT-COPPER FITTINGS IF INDICATED.

- 1. COPPER UNIONS: CAST-COPPER-ALLOY, HEXAGONAL-STOCK BODY, WITH BALL-AND-SOCKET, METAL-TO-METAL SEATING SURFACES AND SOLDER-JOINT OR THREADED ENDS.

- 2. JOINING MATERIALS: USE ASTM B 813, WATER-FLUSHABLE, LEAD-FREE FLUX; ASTM B 32, LEAD-FREE-ALLOY SOLDER.

B. SOFT COPPER TUBING: ASTM B 88, TYPES K, WATER TUBE, ANNEALED TEMPER WITH COPPER PRESSURE FITTINGS, CAST-COPPER-ALLOY OR WROUGHT-COPPER, SOLDER-JOINT FITTINGS. FURNISH WROUGHT-COPPER FITTINGS IF INDICATED.

- 1. JOINING MATERIALS: USE ASTM B 813, WATER-FLUSHABLE, LEAD-FREE FLUX; ASTM B 32, LEAD-FREE-ALLOY SOLDER.

C. CPVC PIPING: ASTM F 441/F 441M, SCHEDULE 40 PIPE WITH ASTM F 438, CPVC SCHEDULE 40 SOCKET-TYPE FITTINGS.

D. UPONOR PEX TUBE AND FITTINGS: ASTM F 877, SDR 9 PEX TUBING AND ASTM F 1807, METAL INSERT-TYPE FITTINGS WITH COPPER OR STAINLESS-STEEL CRIMP RINGS.

- 1. MANIFOLD: ASTM F 877 PLASTIC OR CORROSION-RESISTANT-METAL ASSEMBLY, WITH A PLASTIC OR CORROSION-RESISTANT-METAL VALVE FOR EACH OUTLET.

E. SPECIAL-DUTY VALVES:

- 1. COMPLY WITH REQUIREMENTS IN SECTION 220523 "GENERAL-DUTY VALVES FOR PLUMBING PIPING" FOR GENERAL-DUTY METAL VALVES.
- 2. COMPLY WITH REQUIREMENTS IN SECTION 221119 "DOMESTIC WATER PIPING SPECIALTIES" FOR BALANCING VALVES, DRAIN VALVES, BACKFLOW PREVENTERS, AND VACUUM BREAKERS.
- F. TRANSITION FITTINGS: MANUFACTURED PIPING COUPLING OR SPECIFIED PIPING SYSTEM FITTING, SAME SIZE AS PIPES TO BE JOINED AND PRESSURE RATING AT LEAST EQUAL TO PIPES TO BE JOINED.
- G. FLEXIBLE CONNECTORS: STAINLESS-STEEL, CORRUGATED-METAL TUBING WITH WIRE-BRAID COVERING, WORKING-PRESSURE RATING A MINIMUM OF 200 PSIG.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. COMPLY WITH REQUIREMENTS IN SECTION 220500 "COMMON WORK RESULTS FOR PLUMBING" FOR BASIC PIPING INSTALLATION REQUIREMENTS.
- B. INSTALL WALL PENETRATION SYSTEM AT EACH SERVICE PIPE PENETRATION THROUGH FOUNDATION WALL. MAKE INSTALLATION WATERTIGHT. COMPLY WITH REQUIREMENTS IN SECTION 220500 "COMMON WORK RESULTS FOR PLUMBING" FOR WALL PENETRATION SYSTEMS.
- C. INSTALL SHUTOFF VALVE, HOSE-END DRAIN VALVE, STRAINER, PRESSURE GAGE, AND TEST TEE WITH VALVE, INSIDE THE BUILDING AT EACH DOMESTIC WATER SERVICE ENTRANCE. COMPLY WITH REQUIREMENTS IN SECTION 220500 "COMMON WORK RESULTS FOR PLUMBING" FOR PRESSURE GAGES AND SECTION 221119 "DOMESTIC WATER PIPING SPECIALTIES" FOR DRAIN VALVES AND STRAINERS.
- D. INSTALL DOMESTIC WATER PIPING WITHOUT PITCH FOR HORIZONTAL PIPING AND PLUMB FOR VERTICAL PIPING.
- E. COMPLY WITH REQUIREMENTS IN SECTION 220500 "COMMON WORK RESULTS FOR PLUMBING" FOR BASIC PIPING JOINT CONSTRUCTION.
- 1. SOLDERED JOINTS: COMPLY WITH PROCEDURES IN ASTM B 828 UNLESS OTHERWISE INDICATED.
- F. COMPLY WITH REQUIREMENTS IN SECTION 220500 "COMMON WORK RESULTS FOR PLUMBING" FOR PIPE HANGER AND SUPPORT DEVICES.

- 1. INSTALL HANGERS FOR STEEL PIPING WITH THE FOLLOWING MAXIMUM HORIZONTAL SPACING AND MINIMUM ROD DIAMETERS:
 - a. NPS 1-1/4 AND SMALLER: 84 INCHES WITH 3/8-INCH ROD.
 - b. NPS 1-1/2: 108 INCHES WITH 3/8-INCH ROD.
 - c. NPS 2: 10 FEET WITH 3/8-INCH ROD.
 - d. NPS 2-1/2: 11 FEET WITH 1/2-INCH ROD.
 - e. SUPPORT VERTICAL PIPING AT EACH FLOOR.
- 2. INSTALL VINYL-COATED HANGERS FOR CPVC PIPING WITH THE FOLLOWING MAXIMUM HORIZONTAL SPACING AND MINIMUM ROD DIAMETERS:
 - a. NPS 1 AND SMALLER: 36 INCHES WITH 3/8-INCH ROD.
 - b. NPS 1-1/4 TO NPS 2: 48 INCHES WITH 3/8-INCH ROD.
 - c. NPS 2-1/2 TO NPS 3-1/2: 48 INCHES WITH 1/2-INCH ROD.
 - d. INSTALL SUPPORTS FOR VERTICAL CPVC PIPING EVERY 60 INCHES FOR NPS 1 AND SMALLER, AND EVERY 72 INCHES FOR NPS 1-1/4 AND LARGER.

- 3. INSTALL VINYL-COATED HANGERS FOR PEX PIPING WITH THE FOLLOWING MAXIMUM HORIZONTAL SPACING AND MINIMUM ROD DIAMETERS:
 - a. NPS 1 AND SMALLER: 32 INCHES WITH 3/8-INCH ROD.
 - b. INSTALL HANGERS FOR VERTICAL PEX PIPING EVERY 48 INCHES.

3.2 INSPECTING AND CLEANING

A. INSPECT AND TEST PIPING SYSTEMS AS FOLLOWS:

- 1. FILL DOMESTIC WATER PIPING. CHECK COMPONENTS TO DETERMINE THAT THEY ARE NOT AIR BOUND AND THAT PIPING IS FULL OF WATER.
- 2. TEST FOR LEAKS AND DEFECTS IN NEW PIPING AND PARTS OF EXISTING PIPING THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED.
- B. CLEAN AND DISINFECT POTABLE DOMESTIC WATER PIPING BY FILLING SYSTEM WITH WATER/CHLORINE SOLUTION WITH AT LEAST 50 PPM OF CHLORINE. ISOLATE WITH VALVES AND ALLOW TO STAND FOR 24 HOURS. FLUSH SYSTEM WITH CLEAN, POTABLE WATER UNTIL NO CHLORINE IS IN WATER COMING FROM SYSTEM AFTER THE STANDING TIME.

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P710

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SPECIFICATIONS
PLUMBING SHELL

P730

SPECIFICATIONS - DIVISION 22 - PLUMBING

1. STACK FITTING: ASTM A 48/A 48M, GRAY-IRON, HUBLESS-PATTERN, WYE BRANCH WITH NEOPRENE O-RING AT BASE AND GRAY-IRON PLUG IN THERMAL-RELEASE HARNESS, INCLUDE PVC PROTECTIVE CAP FOR PLUG.
 2. SPECIAL COATING: CORROSION RESISTANT ON INTERIOR OF FITTINGS.
- 2.9 FLASHING MATERIALS
- A. COPPER SHEET: ASTM B 152/B 152M, 12 OZ./SQ. FT.
 - B. ZINC-COATED STEEL SHEET: ASTM A 653/A 653M, WITH 0.20 PERCENT COPPER CONTENT AND 0.04-INCH MINIMUM THICKNESS UNLESS OTHERWISE INDICATED, INCLUDE G90 HOT-DIP GALVANIZED, MILL-PHOSPHATIZED FINISH FOR PAINTING IF INDICATED.
 - C. ELASTIC MEMBRANE SHEET: ASTM D 4068, FLEXIBLE, CHLORINATED POLYETHYLENE, 40-MIL MINIMUM THICKNESS.
 - D. FASTENERS: METAL COMPATIBLE WITH MATERIAL AND SUBSTRATE BEING FASTENED.
 - E. METAL ACCESSORIES: SHEET METAL STRIPS, CLAMPS, ANCHORING DEVICES, AND SIMILAR ACCESSORY UNITS REQUIRED FOR INSTALLATION; MATCHING OR COMPATIBLE WITH MATERIAL BEING INSTALLED.
 - F. SOLDER: ASTM B 32, LEAD-FREE ALLOY.

PART 3 - EXECUTION

3.1 INSTALLATION

- B. INSTALL ROOF DRAINS AT LOW POINTS OF ROOF AREAS ACCORDING TO ROOF MEMBRANE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
 - C. 1. INSTALL FLASHING COLLAR OR FLANGE OF ROOF DRAIN TO PREVENT LEAKAGE BETWEEN DRAIN AND ADJOINING ROOFING. MAINTAIN INTEGRITY OF WATERPROOF MEMBRANES WHERE PENETRATED.
 - D. 2. INSTALL EXPANSION JOINTS, IF INDICATED, IN ROOF DRAIN OUTLETS.
 - E. 3. POSITION ROOF DRAINS FOR EASY ACCESS AND MAINTENANCE.
 - F. 4. INSTALL DOWNSPOUT ADAPTERS ON OUTLET OF BACK-OUTLET PARAPET ROOF DRAINS AND CONNECT TO SHEET METAL DOWNSPOUTS.
 - G. 5. INSTALL DOWNSPOUT BOOTS AT GRADE WITH TOP 12 INCHES ABOVE GRADE. SECURE TO BUILDING WALL.
 - H. 6. INSTALL CONDUCTOR NOZZLES AT EXPOSED BOTTOM OF CONDUCTORS WHERE THEY SPILL ONTO GRADE.
 - I. 7. INSTALL CLEANOUTS IN ABOVEGROUND PIPING AND BUILDING DRAIN PIPING ACCORDING TO THE FOLLOWING INSTRUCTIONS UNLESS OTHERWISE INDICATED:
 - A. 1. USE CLEANOUTS THE SAME SIZE AS DRAINAGE PIPING UP TO NPS 4. USE NPS 4 FOR LARGER DRAINAGE PIPING UNLESS LARGER CLEANOUT IS INDICATED.
 - B. 2. LOCATE CLEANOUTS AT EACH CHANGE IN DIRECTION OF PIPING GREATER THAN 45 DEGREES.
 - C. 3. LOCATE CLEANOUTS AT MINIMUM INTERVALS OF 50 FEET FOR PIPING NPS 4 AND SMALLER AND 100 FEET FOR LARGER PIPING.
 - D. 4. LOCATE CLEANOUTS AT BASE OF EACH VERTICAL SOIL AND WASTE STACK.
 - J. 8. FOR FLOOR CLEANOUTS FOR PIPING BELOW FLOORS, INSTALL CLEANOUT DECK PLATES WITH TOP FLUSH WITH FINISHED FLOOR.
 - K. 9. FOR CLEANOUTS LOCATED IN CONCEALED PIPING, INSTALL CLEANOUT WALL ACCESS COVERS, OF TYPES INDICATED, WITH FRAME AND COVER FLUSH WITH FINISHED WALL.
 - L. 10. INSTALL HORIZONTAL BACKWATER VALVES IN FLOOR WITH COVER FLUSH WITH FLOOR.
 - M. 11. INSTALL DRAIN-OUTLET BACKWATER VALVES IN OUTLET OF DRAINS.
 - N. 12. INSTALL TEST TEES IN VERTICAL CONDUCTORS AND NEAR FLOOR.
 - O. 13. INSTALL WALL CLEANOUTS IN VERTICAL CONDUCTORS. INSTALL ACCESS DOOR IN WALL IF INDICATED.
 - P. 14. INSTALL TRENCH DRAINS AT LOW POINTS OF SURFACE AREAS TO BE DRAINED. SET GRATES OF DRAINS FLUSH WITH FINISHED SURFACE UNLESS OTHERWISE INDICATED.
 - Q. 15. ASSEMBLE CHANNEL DRAINAGE SYSTEM COMPONENTS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. INSTALL ON SUPPORT DEVICES SO THAT TOP WILL BE FLUSH WITH ADJACENT SURFACE.
 - R. 16. INSTALL THROUGH-PENETRATION FIRESTOP ASSEMBLIES IN PLASTIC CONDUCTORS AT CONCRETE FLOOR PENETRATIONS.
 - S. 17. INSTALL SLEEVE FLASHING DEVICE WITH EACH CONDUCTOR PASSING THROUGH FLOORS WITH WATERPROOF MEMBRANE.
- 3.2 CONNECTIONS

A. COMPLY WITH REQUIREMENTS FOR PIPING SPECIFIED IN SECTION 221413 "FACILITY STORM DRAINAGE PIPING." DRAWINGS INDICATE GENERAL ARRANGEMENT OF PIPING, FITTINGS, AND SPECIALTIES.

3.3 FLASHING INSTALLATION

- A. FABRICATE FLASHING FROM SINGLE PIECE OF METAL UNLESS LARGE PANS, SUMPS, OR OTHER DRAINAGE SHAPES ARE REQUIRED. JOIN FLASHING ACCORDING TO THE FOLLOWING IF REQUIRED:
 1. LEAD SHEETS: BURN JOINTS OF 6.0-LB./SQ. FT. LEAD SHEETS, 0.0938-INCH THICKNESS OR THICKER. SOLDER JOINTS OF 4.0-LB./SQ. FT. LEAD SHEETS, 0.0625-INCH THICKNESS OR THINNER.
 2. COPPER SHEETS: SOLDER JOINTS OF COPPER SHEETS.
- B. INSTALL SHEET FLASHING ON PIPES, SLEEVES, AND SPECIALTIES PASSING THROUGH OR EMBEDDED IN FLOORS AND ROOFS WITH WATERPROOF MEMBRANE.
 1. PIPE FLASHING: SLEEVE TYPE, MATCHING THE PIPE SIZE, WITH A MINIMUM LENGTH OF 10 INCHES AND WITH SKIRT OR FLANGE EXTENDING AT LEAST 8 INCHES AROUND PIPE.
 2. SLEEVE FLASHING: FLAT SHEET, WITH SKIRT OR FLANGE EXTENDING AT LEAST 8 INCHES AROUND SLEEVE.
 3. EMBEDDED SPECIALTY FLASHING: FLAT SHEET, WITH SKIRT OR FLANGE EXTENDING AT LEAST 8 INCHES AROUND SPECIALTY.
- C. SET FLASHING ON FLOORS AND ROOFS IN SOLID COATING OF BITUMINOUS CEMENT.
- D. SECURE FLASHING INTO SLEEVE AND SPECIALTY CLAMPING RING OR DEVICE.
- E. FABRICATE AND INSTALL FLASHING AND PANS, SUMPS, AND OTHER DRAINAGE SHAPES.

3.4 PROTECTION

- A. PROTECT DRAINS DURING REMAINDER OF CONSTRUCTION PERIOD TO AVOID CLOGGING WITH DIRT OR DEBRIS AND TO PREVENT DAMAGE FROM TRAFFIC OR CONSTRUCTION WORK.
- B. PLACE PLUGS IN ENDS OF UNCOMPLETED PIPING AT END OF EACH DAY OR WHEN WORK STOPS.

END OF SECTION 221423

SECTION 221623 - FACILITY NATURAL-GAS PIPING

PART 2 - PRODUCTS

- 2.1 PERFORMANCE REQUIREMENTS
- A. MINIMUM OPERATING-PRESSURE RATINGS:
- 1. PIPING AND VALVES: 100 PSIG MINIMUM UNLESS OTHERWISE INDICATED.
- B. NATURAL-GAS SYSTEM PRESSURE WITHIN BUILDING: ONE DISTRIBUTION PRESSURE, 14" W.C., BUT NOT MORE THAN 2.0 PSIG.
- 2.2 PIPES, TUBES, AND FITTINGS
- A. STEEL PIPE: ASTM A 53/A 53M, BLACK STEEL, SCHEDULE 40, TYPE E OR S, GRADE B.
- 1. MALLEABLE-IRON THREADED FITTINGS: ASME B16.3, CLASS 150, STANDARD PATTERN.
 - 2. WROUGHT-STEEL WELDING FITTINGS: ASTM A 234/A 234M FOR BUTT WELDING AND SOCKET WELDING.
- B. UNIONS: ASME B16.39, CLASS 150, MALLEABLE IRON WITH BRASS-TO-IRON SEAT, GROUND JOINT, AND THREADED ENDS.
- C. PROTECTIVE COATING FOR UNDERGROUND PIPING: FACTORY-APPLIED, THREE-LAYER COATING OF EPOXY, ADHESIVE, AND PE.
- B. CORRUGATED, STAINLESS-STEEL TUBING: COMPLY WITH ANSI/ISA LC 1; INCLUDE FLAME-RETARDANT PE COATING, COPPER-ALLOY THREADED ENDS, AND STRIKER PLATES.

- 2.3 SPECIALTIES
- A. APPLIANCE FLEXIBLE CONNECTORS:
1. INDOOR, FIXED-APPLIANCE FLEXIBLE CONNECTORS: COMPLY WITH ANSI Z21.24.
 2. INDOOR, MOVABLE-APPLIANCE FLEXIBLE CONNECTORS: COMPLY WITH ANSI Z21.69.
 3. OUTDOOR, APPLIANCE FLEXIBLE CONNECTORS: COMPLY WITH ANSI Z21.75.
 4. CORRUGATED STAINLESS-STEEL TUBING WITH POLYMER COATING.
- B. STRAINERS: ASTM A 126, CLASS B, CAST-IRON BODY, Y-PATTERN, FULL SIZE OF CONNECTING PIPING, CWP RATING OF 125 PSIG. INCLUDE 40-MESH STARTUP STRAINER, AND PERFORATED STAINLESS-STEEL BASKET.
- C. WEATHERPROOF VENT CAP: CAST- OR MALLEABLE-IRON INCREASED FITTING WITH CORROSION-RESISTANT WIRE SCREEN, WITH FREE AREA AT LEAST EQUAL TO CROSS-SECTIONAL AREA OF CONNECTING PIPE AND THREADED-END CONNECTION.
- 2.4 VALVES
- A. GENERAL REQUIREMENTS FOR METALLIC MANUAL GAS SHUTOFF VALVES: COMPLY WITH ASME B16.33.
1. CWP RATING: 125 PSIG.
- B. ONE-PIECE, BRONZE BALL VALVE WITH BRONZE TRIM: MSS SP-110.
1. BODY: BRONZE, COMPLYING WITH ASTM B 584.
 2. BALL: CHROME-PLATED BRASS.
 3. STEM: BRONZE; BLOWOUT PROOF.
 4. SEATS: REINFORCED TFE; BLOWOUT PROOF.
 5. PACKING: SEPARATE PACKNUT WITH ADJUSTABLE STEM PACKING THREADED ENDS.
 6. CWP RATING: 600 PSIG.
 7. LISTING: VALVES NPS 1 AND SMALLER SHALL BE LISTED AND LABELED BY AN NRTL ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
 8. SERVICE: SUITABLE FOR NATURAL-GAS SERVICE WITH "WOG" INDICATED ON VALVE BODY.
- C. TWO-PIECE, FULL-PORT, BRONZE BALL VALVES WITH BRONZE TRIM: MSS SP-110.
1. BODY: BRONZE, COMPLYING WITH ASTM B 584.
 2. BALL: CHROME-PLATED BRONZE.
 3. STEM: BRONZE; BLOWOUT PROOF.
 4. SEATS: REINFORCED TFE; BLOWOUT PROOF.
 5. PACKING: THREADED BODY PACKNUT DESIGN WITH ADJUSTABLE STEM PACKING.
 6. CWP RATING: 600 PSIG.
 7. LISTING: VALVES NPS 1 AND SMALLER SHALL BE LISTED AND LABELED BY AN NRTL ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
 8. SERVICE: SUITABLE FOR NATURAL-GAS SERVICE WITH "WOG" INDICATED ON VALVE BODY.
- D. BRONZE PLUG VALVES: MSS SP-78.

1. BODY: BRONZE, COMPLYING WITH ASTM B 584.
2. PLUG: BRONZE.
3. OPERATOR: SQUARE HEAD OR LUG TYPE WITH TAMPERPROOF FEATURE WHERE INDICATED.
4. PRESSURE CLASS: 125 PSIG.
5. LISTING: VALVES NPS 1 AND SMALLER SHALL BE LISTED AND LABELED BY AN NRTL ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
6. SERVICE: SUITABLE FOR NATURAL-GAS SERVICE WITH "WOG" INDICATED ON VALVE BODY.
- E. CAST-IRON, NONLUBRICATED PLUG VALVES: MSS SP-78.
 1. BODY: CAST IRON, COMPLYING WITH ASTM A 126, CLASS B.
 2. PLUG: BRONZE OR NICKEL-PLATED CAST IRON.
 3. SEAT: COATED WITH THERMOPLASTIC.
 4. STEM SEAL: COMPATIBLE WITH NATURAL GAS.
 5. OPERATOR: SQUARE HEAD OR LUG TYPE WITH TAMPERPROOF FEATURE WHERE INDICATED.
 6. PRESSURE CLASS: 125 PSIG.
 7. LISTING: VALVES NPS 1 AND SMALLER SHALL BE LISTED AND LABELED BY AN NRTL ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
 8. SERVICE: SUITABLE FOR NATURAL-GAS SERVICE WITH "WOG" INDICATED ON VALVE BODY.

- F. ELECTRICALLY OPERATED, AUTOMATIC GAS VALVES: COMPLY WITH UL 429.
- 2.5 PRESSURE REGULATORS
- A. GENERAL REQUIREMENTS: SINGLE STAGE, STEEL JACKETED, AND CORROSION RESISTANT. INCLUDE ELEVATION COMPENSATOR.
- B. LINE PRESSURE REGULATORS: ANSI Z21.80; 2-PSIG MAXIMUM INLET PRESSURE, FACTORY- OR FIELD-INSTALLED, STAINLESS-STEEL SCREEN IN VENT OPENING IF NOT CONNECTED TO VENT PIPING.
- C. APPLIANCE PRESSURE REGULATORS: ANSI Z21.18; 2-PSIG MAXIMUM INLET PRESSURE. REGULATOR MAY INCLUDE VENT LIMITING DEVICE, INSTEAD OF VENT CONNECTION, IF APPROVED BY AUTHORITIES HAVING JURISDICTION.

PART 3 - EXECUTION

3.1 INDOOR PIPING INSTALLATION

- A. COMPLY WITH REQUIREMENTS IN SECTION 220500 "COMMON WORK RESULTS FOR PLUMBING" FOR BASIC PIPING INSTALLATION REQUIREMENTS.
 - B. INSTALL PIPING IN CONCEALED LOCATIONS UNLESS OTHERWISE INDICATED AND EXCEPT IN EQUIPMENT ROOMS AND SERVICE AREAS.
 - C. INSTALL ESCUTCHEONS AT PENETRATIONS OF INTERIOR WALLS, CEILINGS, AND FLOORS.
 - D. FIRE-BARRIER PENETRATIONS: MAINTAIN INDICATED FIRE RATING OF WALLS, PARTITIONS, CEILINGS, AND FLOORS AT PIPE PENETRATIONS. SEAL PIPE PENETRATIONS WITH FIRESTOP MATERIALS. COMPLY WITH REQUIREMENTS IN SECTION 078413 "PENETRATION FIRESTOPPING."
 - E. INSTALL GAS STOPS FOR SHUTOFF TO APPLIANCES WITH LOW-PRESSURE GAS SUPPLY.
 - F. INSTALL NATURAL-GAS PIPING AT UNIFORM GRADE OF 2 PERCENT DOWN TOWARD DRIP AND SEDIMENT TRAPS.
 - G. USE ECCENTRIC REDUCER FITTINGS TO MAKE REDUCTIONS IN PIPE SIZES. INSTALL FITTINGS WITH LEVEL SIDE DOWN.
 - H. CONNECT BRANCH PIPING FROM TOP OR SIDE OF HORIZONTAL PIPING.
 - I. INSTALL UNIONS IN PIPES NPS 2 AND SMALLER, ADJACENT TO EACH VALVE, AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT. UNIONS ARE NOT REQUIRED AT FLANGED CONNECTIONS.
 - J. INSTALL STRAINER ON INLET OF EACH LINE PRESSURE REGULATOR AND AUTOMATIC OR ELECTRICALLY OPERATED VALVE.
 - K. INSTALL PRESSURE GAGE PLUG UPSTREAM AND DOWNSTREAM FROM EACH LINE REGULATOR.
 - L. CONNECT GAS PIPING TO EQUIPMENT AND APPLIANCES WITH SHUTOFF VALVES AND UNIONS. INSTALL GAS VALVE UPSTREAM FROM AND WITHIN 72 INCHES OF EACH APPLIANCE USING GAS. INSTALL UNION OR FLANGED CONNECTIONS DOWNSTREAM FROM VALVES.
 - M. EXTEND RELIEF VENT CONNECTIONS FOR SERVICE REGULATORS, LINE REGULATORS, AND OVERPRESSURE PROTECTION DEVICES TO THE OUTDOORS AND TERMINATE WITH WEATHERPROOF VENT CAP.
 - N. DO NOT USE NATURAL-GAS PIPING AS GROUNDING ELECTRODE.
- 3.2 PIPING JOINT CONNECTION

- A. THREADED JOINTS: THREAD PIPE WITH TAPERED PIPE THREADS COMPLYING WITH ASME B1.20.1.
- B. WELDED JOINTS: CONSTRUCT JOINTS ACCORDING TO AWS D10.12M/D10.12, USING QUALIFIED PROCESSES AND WELDING OPERATORS.
- C. JOINTS IN STEEL PIPING WITH PROTECTIVE COATING: APPLY JOINT COVER KITS TO PIPE AFTER JOINING TO COVER, SEAL, AND PROTECT JOINTS.
- D. FLANGED JOINTS: INSTALL GASKET MATERIAL, SIZE, TYPE, AND THICKNESS APPROPRIATE FOR NATURAL-GAS SERVICE. INSTALL GASKET CONCENTRICALLY POSITIONED.

3.3 VALVE INSTALLATION

- A. INSTALL MANUAL GAS SHUTOFF VALVE FOR EACH GAS APPLIANCE AHEAD OF CORRUGATED STAINLESS-STEEL TUBING, ALUMINUM, OR COPPER CONNECTOR.
- B. INSTALL REGULATORS AND OVERPRESSURE PROTECTION DEVICES WITH MAINTENANCE ACCESS SPACE ADEQUATE FOR SERVICING AND TESTING.

3.4 INDOOR PIPING SCHEDULE FOR SYSTEM PRESSURES MORE THAN 7" W.C. AND LESS THAN 5 PSIG.

- A. ABOVEGROUND, BRANCH PIPING NPS 1 AND SMALLER SHALL BE THE FOLLOWING:
1. CORRUGATED STAINLESS-STEEL TUBING WITH MECHANICAL FITTINGS HAVING SOCKET OR THREADED ENDS TO MATCH ADJACENT PIPING.
 2. STEEL PIPE WITH MALLEABLE-IRON FITTINGS AND THREADED JOINTS.

B. ABOVEGROUND, DISTRIBUTION PIPING SHALL BE THE FOLLOWING:

1. STEEL PIPE WITH MALLEABLE-IRON FITTINGS AND THREADED JOINTS.














C. UNDERGROUND, BELOW BUILDING, SHALL BE[ONE OF] THE FOLLOWING

1. STEEL PIPE WITH MALLEABLE-IRON FITTINGS AND THREADED JOINTS.
 2. STEEL PIPE WITH WROUGHT-STEEL FITTINGS AND WELDED JOINTS.
- D. CONTAINMENT CONDUIT: STEEL WITH WROUGHT-STEEL FITTINGS AND WELDED JOINTS. COAT PIPE AND FITTINGS WITH PROTECTIVE COATING FOR STEEL PIPING.

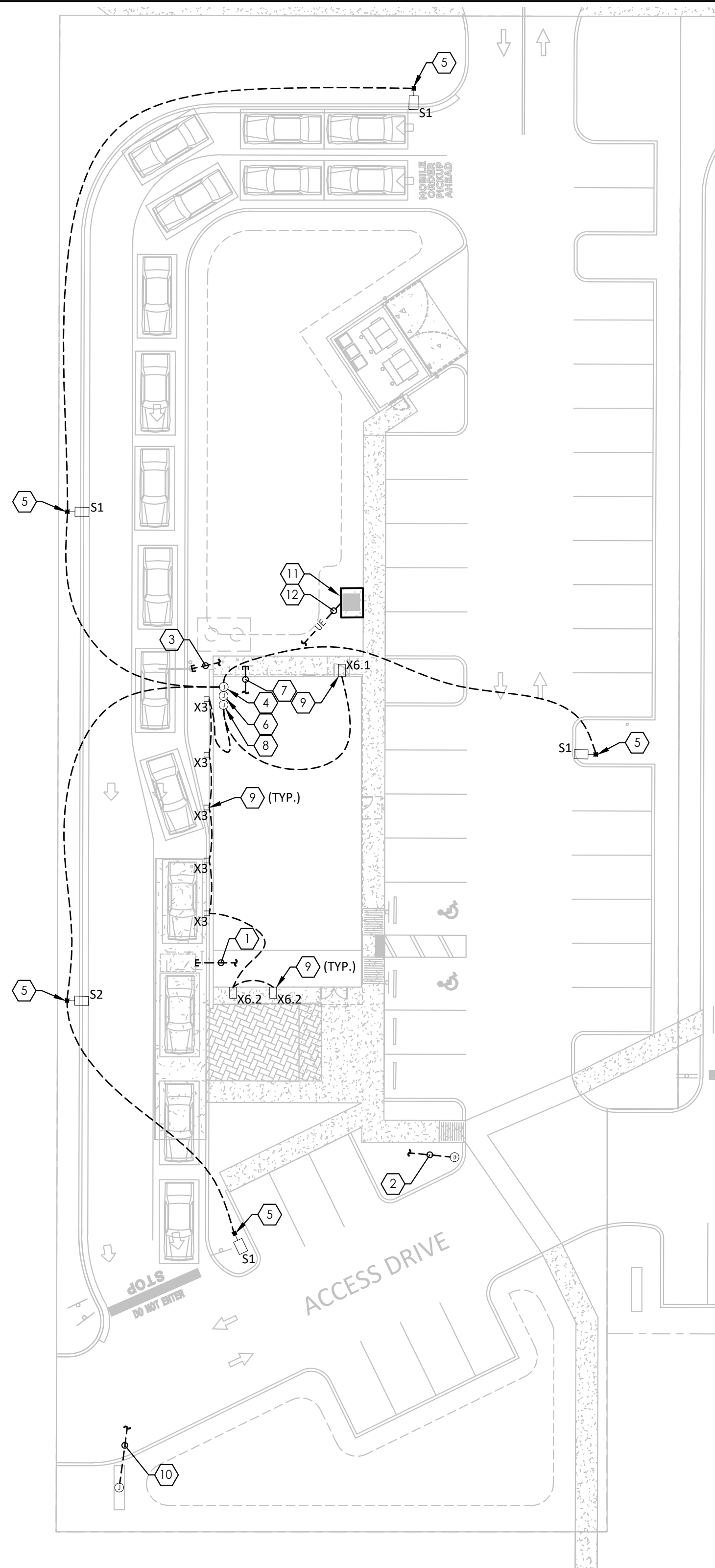
- E. CONTAINMENT CONDUIT VENT PIPING: STEEL PIPE WITH MALLEABLE-IRON FITTINGS AND THREADED OR WROUGHT-STEEL FITTINGS WITH WELDED JOINTS. COAT UNDERGROUND PIPE AND FITTINGS WITH PROTECTIVE COATING FOR STEEL PIPING.

END OF SECTION

(A)	EXISTING TO BE ABANDONED	INCD	INCANDESCENT
(D)	EXISTING TO BE DEMOLISHED	KVA	KILOVOLT AMPERE
(E)	EXISTING TO REMAIN	KW	KILOWATT
(F)	FUTURE	LTG	LIGHTING OR LIGHT
(R)	EXISTING TO BE RELOCATED	LRA	LOCKED ROTOR AMPS
A	AMPERE	MCA	MAXIMUM CURRENT CAPACITY
AC	ALTERNATING CURRENT OR AIR CONDITIONER	MCB	MAIN CIRCUIT BREAKER
AF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AFG	ABOVE FINISHED GRADE	MDP	MAIN DISTRIBUTION PANEL
AIC	AMPS INTERRUPTING CAPACITY	MLO	MAIN LUGS ONLY
ANN	ANNUNCIATOR	MOCF	MAXIMUM OVERCURRENT PROTECTION
AWG	AMERICAN WIRE GAUGE	MSB	MAIN SWITCHBOARD
BPS	BOLTED PRESSURE SWITCH	MH	METAL HALIDE
C	CONDUIT	MT	MANUAL TRANSFER SWITCH
CB	CIRCUIT BREAKER	NAC	NOTIFICATION APPLIANCE CIRCUIT
CCTV	CLOSED CIRCUIT TELEVISION	NC	NORMALLY CLOSED
CKT	CIRCUIT	NO	NORMALLY OPEN
CM	CONSTRUCTION MANAGER	NF	NON-FUSED
DC	DIRECT CURRENT	OCC	OCCUPANCY
DP	DISTRIBUTION PANELBOARD	PA	PUBLIC ADDRESS
DT	DOUBLE TWIN TUBE	PB	PULL BOX OR PUSH BUTTON
EB	ELECTRONIC BALLAST	PVC	POLYVINYL CHLORIDE (PLASTIC PIPE)
EC	ELECTRICAL CONTRACTOR	PWR	POWER
EM	EMERGENCY	RECP	RECEPTACLE
EMT	ELECTRICAL METAL TUBING	STP	SHIELDED, TWISTED PAIR
EWC	ELECTRIC WATER COOLER	TC	TIME CLOCK
FA	FIRE ALARM	TRT	TRIPLE TUBE
FLA	FULL LOAD AMPS	TYP	TYPICAL
G	GROUND	UNO	UNLESS NOTED OTHERWISE
GC	GENERAL TRADES CONTRACTOR	UNSH	UNSHIELDED, TWISTED PAIR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	V	VOLT
GEN	GENERATOR	W	WATT
HOA	HAND-OFF-AUTOMATIC	WAP	WIRELESS ACCESS POINT
HP	HORSEPOWER	WH	WATHOUR
HPC	HIGH PRESSURE CONTACT SWITCH	WP	WEATHERPROOF, NEMA 3R UNO
HZ	HERTZ	XFMR	TRANSFORMER
IG	ISOLATED GROUND	Z	IMPEDANCE
IMC	INTERMEDIATE METAL CONDUIT	Φ	PHASE

LIGHTING LEGEND		ELECTRICAL LEGEND	
TAG	DESCRIPTION	DETAIL	DESCRIPTION
	WALL SCONCE		DUPLEX RECEPTACLE - WITH WEATHERPROOF COVER & GFCI
	EXIT/EMERGENCY LIGHT W/ BATTERY PACK AND DUAL HEADS		BRANCH CIRCUIT HOME-RUN WITH CIRCUIT NUMBER
	EXIT/EMERGENCY LIGHT WITH BATTERY PACK		JUNCTION BOX
	EXIT LIGHT (SURFACE MOUNTED)		DISCONNECT - NON FUSED
	EXIT LIGHT (CEILING MOUNTED)		UTILITY METER
	REMOTE EMERGENCY HEADS		ELECTRICAL PANEL
	EMERGENCY BATTERY PACK AND DUAL HEADS		

TAG	DESCRIPTION	MANUFACTURER	MODEL	LAMP	FINISH/ COLOR	COMMENTS	VOLTS	INPUT WATTS
E2	LED EMERGENCY REMOTE HEAD	EXITRONIX	MLED1-B-WP	--	BLACK	--	120	1
E4	COMBINATION LED EXIT SIGN	EXITRONIX	SIGN: CLED-U-WH REMOTE HEAD: MLED-W-G2	--	WHITE	PROVIDE WITH 90 MINUTE BATTERY BACKUP	120	2
S1	SITE LIGHTING	BEACON	VP-1-160L-135-4K7-4W-UNV-A5-DBT	LED	DARK BRONZE	MOUNT AT 25'-0" TO ROUND ALUMINUM POLE (EQUAL TO GENERAL STRUCTURES CPA-4-6018-25-EMB-D1-DB), COORDINATE WITH POLE BASE DETAIL SHEET E400 AND CIVIL DIRECT BURIAL POLE DETAIL.	120	132.2
S2	SITE LIGHTING	BEACON	VP-1-160L-75-4K7-3-UNV-A5-DBT-BC	LED	DARK BRONZE	MOUNT AT 25'-0" TO ROUND ALUMINUM POLE (EQUAL TO GENERAL STRUCTURES CPA-4-6018-25-EMB-D1-DB), COORDINATE WITH POLE BASE DETAIL SHEET E400 AND CIVIL DIRECT BURIAL POLE DETAIL.	120	72.1
X3	ACCENT WALL PACK	PERFORMANCE IN LIGHTING, INC.	ALU ROUND SIDE 4	LED	BLACK	PROVIDE WITH WALL MOUNTING KIT. REFER TO ARCH FOR FURTHER INFORMATION.	120	2.1
X6.1	WALL PACK W/ 90 MIN BATTERY BACKUP	RAB LIGHTING	WPLEDS/E	LED	BRONZE	SURFACE MOUNT TO RECESSED JUNCTION BOX. FIELD VERIFY FIXTURE IS FACTORY SET TO 10W, 3000K, AND PHOTOCELL OFF.	120	12.1
X6.2	PATIO WALL PACK	RAB LIGHTING	WPLEDS	LED	BRONZE	PROVIDE WITH WALL MOUNTING KIT. REFER TO ARCH FOR FURTHER INFORMATION.	120	12.1
X9	LED LINEAR FIXTURE	PARADIGM LED	PL-AMC-2415 W / OPAL LENS AND END CAPS PL-FLEXSR590-W-W-W-P-3000K	INTEGRATED LED	WHITE	FURNISHED W / REMOTE-MOUNTED NEMA 3R DIMMABLE PL-PS-M100-DIM-24 LED DRIVER. FIELD CUTTABLE; SEE PLAN FOR LENGTHS.	120	4.5W / FT



- A. ALL WORK TO COMPLY TO ALL STATE, LOCAL, NEC, & NFPA CODES.
- B. ELECTRICAL CONTRACTOR TO VISIT THE SITE PRIOR TO SUBMITTING A BID & INCLUDE IN THEIR BID ANY ITEMS NECESSARY FOR A COMPLETE & OPERATIONAL SYSTEM.
- C. DRAWINGS ARE SCHEMATIC IN NATURE. ELECTRICAL CONTRACTOR IS TO ADD ANY ITEMS THAT ARE REQUIRED FOR A COMPLETE & OPERATIONAL SYSTEM IN THEIR PROPOSAL.
- D. ELECTRICAL CONTRACTOR IS TO COORDINATE THEIR INSTALLATION WITH THE OTHER TRADES. IF A CONFLICT OCCURS AND IT IS DUE TO THE ELECTRICAL CONTRACTOR'S LACK OF COORDINATION, ALL WORK INVOLVED IN RESOLVING THE CONFLICT WILL BE AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR.
- E. ELECTRICAL CONTRACTOR TO PAY ALL FEES AND PERMITS.
- F. SEE ARCHITECTURAL DRAWINGS FOR PATIO CONDUIT DETAIL. COORDINATE PRIOR TO ROUGH-IN.
- G. ANY MC CABLE MUST BE RUN IN WALL. ALL CONDUIT OUTSIDE OF WALL TO BE EMT.
- H. CANOPY LIGHTING CONDUIT SHALL BE RUN IN MC CABLE.
- I. NO LIGHTING SUBSTITUTIONS.
- J. REFER TO CIVIL SITE AND UTILITY DRAWINGS FOR FINAL LOCATIONS AND COORDINATION. CONTACT ENGINEER OF RECORD AND ARCHITECT OF RECORD IMMEDIATELY IF ANY DISCREPANCIES ARISE.

ALL WIRING RUN THROUGH TENANT'S EXPOSED CEILING SHALL BE IN EMT OR IMC AND RUN TIGHT TO THE DECK OR EITHER PARALLEL OR PERPENDICULAR TO MAIN ENTRY STOREFRONT. THERE SHALL BE NO DIAGONAL RUNS AND ALL CONDUITS SHALL BE IN STRAIGHT LINES.

1. VEHICLE LOOP. REFER TO SITE CONDUIT DETAIL ON SHEET E400 FOR FURTHER INFORMATION. REFER TO CIVIL AND ARCHITECTURAL PLANS FOR CONTINUATION.
2. ANNOUNCE SIGN. REFER TO SITE CONDUIT DETAIL ON SHEET E400 FOR FURTHER INFORMATION. COORDINATE EXACT LOCATION AND ROUTING IN FIELD AND WITH CIVIL SITE PLAN DRAWINGS PRIOR TO BID.
3. CLEARANCE BAR. REFER TO SITE CONDUIT DETAIL ON SHEET E400 FOR FURTHER INFORMATION. COORDINATE EXACT LOCATION AND ROUTING IN FIELD AND WITH CIVIL SITE PLAN DRAWINGS PRIOR TO BID.
4. LINE VOLTAGE JB. REFER TO SITE CONDUIT DETAIL ON SHEET E400 FOR FURTHER INFORMATION. COORDINATE EXACT LOCATION, MOUNTING HEIGHT, AND ROUTING IN FIELD AND WITH TENANT FITOUT DRAWINGS PRIOR TO BID.
5. PROVIDE PARKING AREA LIGHT PER SCHEDULE. REFER TO POLE DETAIL ON SHEET E400 FOR FURTHER INFORMATION. PROVIDE CONDUIT TO LINE VOLTAGE JB. COORDINATE FINAL LOCATIONS WITH CIVIL SITE PLAN AND POINT-BY-POINT PLAN PRIOR TO CONSTRUCTION.
6. VEHICLE DETECTOR JB. REFER TO SITE CONDUIT DETAIL ON SHEET E400 FOR FURTHER INFORMATION. COORDINATE EXACT LOCATION, MOUNTING HEIGHT, AND ROUTING IN FIELD AND WITH TENANT FITOUT DRAWINGS PRIOR TO BID.
7. PROVIDE (2) SPARE 1" EMPTY CONDUIT WITH PULLSTRING THROUGH FOUNDATION WALL OUT REAR OF BUILDING, CAPPED AND TERMINATED ABOVE CEILING. RUN TIGHT TO STRUCTURE. COORDINATE EXACT LOCATION FOR STUB UP WITH TENANT.
8. PATIO LIGHTING LINE VOLTAGE JUNCTION BOX FOR FUTURE CONNECTION WITHIN BUILDING BY TENANT. COORDINATE EXACT LOCATION, MOUNTING HEIGHT, AND ROUTING IN FIELD AND WITH TENANT FITOUT DRAWINGS PRIOR TO BID.
9. PROVIDE WALL MOUNTED LIGHT PER SCHEDULE. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHT.
10. MONUMENT SIGN. REFER TO SITE CONDUIT DETAIL ON SHEET E400 FOR FURTHER INFORMATION.
11. UTILITY COMPANY PROVIDED PAD MOUNTED TRANSFORMER. COORDINATE SPECIFICATIONS AND LOCATION WITH LOCAL UTILITY COMPANY PRIOR TO BID.
12. UNDERGROUND SECONDARY ELECTRIC. SEE ONE LINE DIAGRAM & FLOOR PLAN FOR FURTHER INFORMATION.

Issue Record:	
02.25.2026	PERMIT SET
02.25.2026	BID SET

Revisions: _____

Drawn: AB Checked: SS

Project No. _____

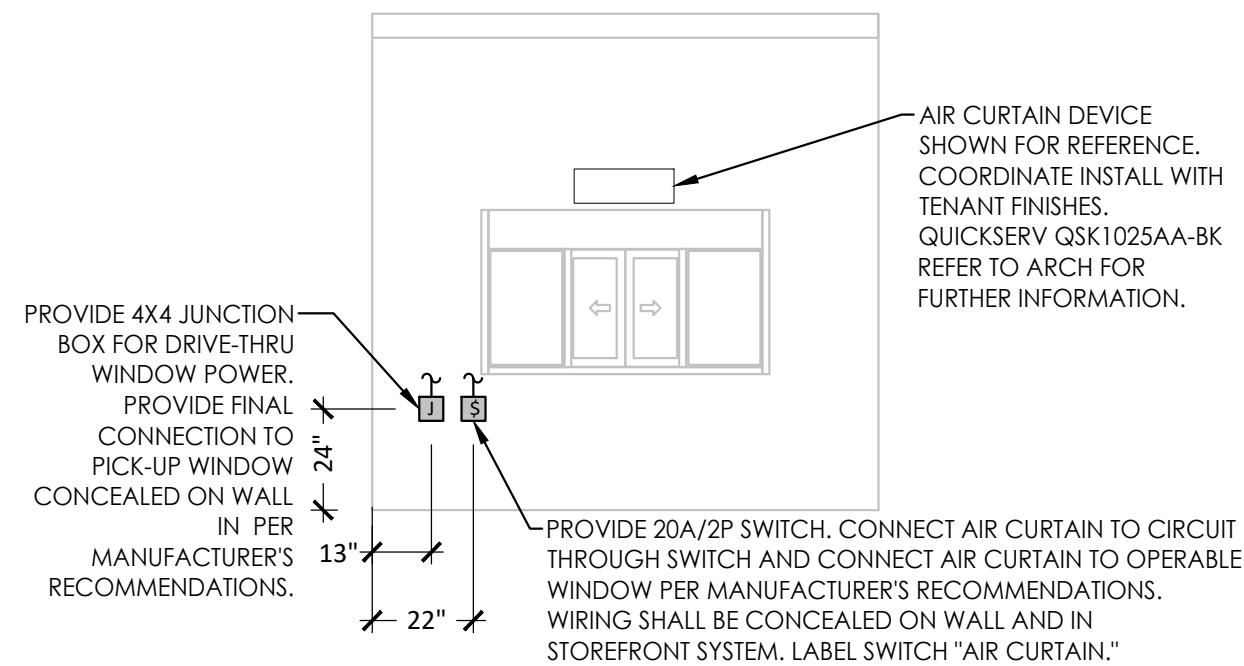
EPL002

Contents:

SITE PLAN

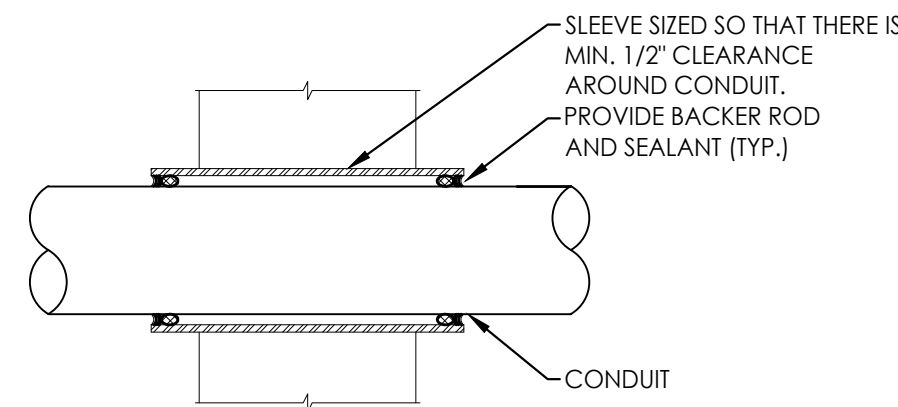
ELECTRICAL SHELL

E100



 1 FLOOR PLAN - ELECTRICAL SHELL
1/4" = 1'-0"

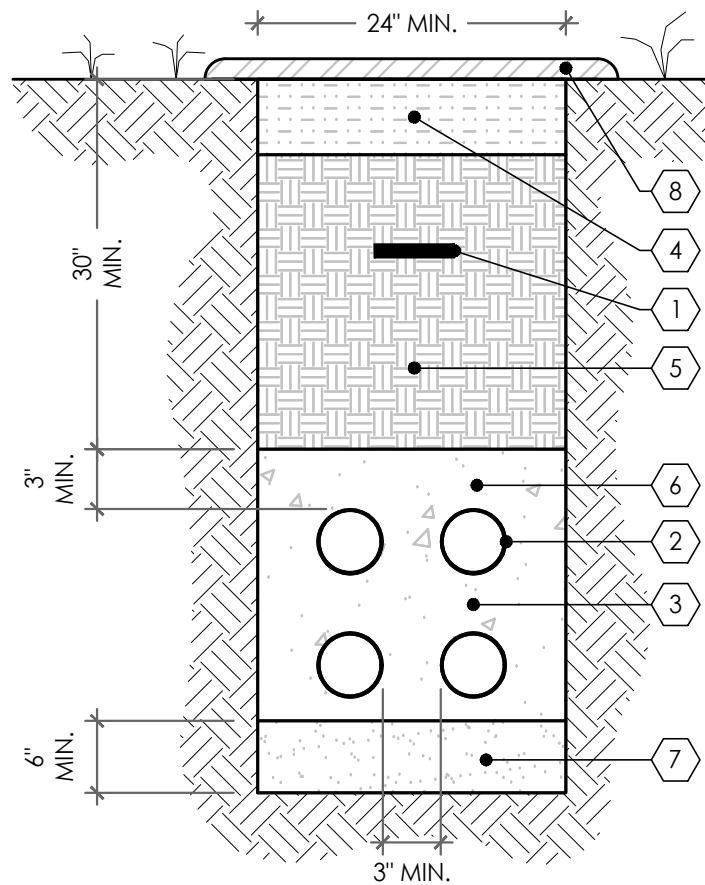
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NOTES:
1. COORDINATE EXACT LOCATIONS, ELEVATIONS, AND QUANTITIES IN FIELD AND WITH STRUCTURAL DRAWINGS PRIOR TO BID.

7 CONDUIT THROUGH FOUNDATION DETAIL

N.T.S.



KEYED NOTES:

- 3" WIDE DETECTABLE TAPE. INSTALL 12" BELOW FINISHED GRADE. (ONE PER 12" OF TRENCH WIDTH)
- ELECTRICAL DUCTS SHALL BE 4" (UNLESS OTHERWISE NOTED) SCHEDULE 40 PVC.
- INSTALL 4" SEPARATION BETWEEN DUCTS AND SIDES OF TRENCH. SUB-BASE MATERIAL 6" DEEP AND COMPACTED TO 90%.
- BACKFILL WITH EXCAVATED OR BORROWED MATERIAL. MATERIAL SHALL BE FREE OF ROCKS 2" DIAMETER AND LARGER. COMPACT TO 90% IN MAX 8" LIFT OF LOOSE SOIL.
- CONCRETE ENCASUREMENT.
- ALL PIPING SHALL BE LAID ON A BED OF SAND 6" DEEP, WELL TAMPED INTO PLACE AND PROPERLY GRADED TO PERMIT THE PIPE TO HAVE AN EVEN BEARING THROUGHOUT ITS ENTIRE LENGTH.
- PAVEMENT BY OTHERS.

GENERAL NOTES:

- TYPICAL FOR ALL CONDUITS/DUCT BANKS, REGARDLESS OF QUANTITY.
- FOR SERVICE CONDUIT UNDER TRAFFIC-BEARING SURFACES. REFER TO CIVIL UTILITY PLAN FOR EXTENT OF SCOPE AND CONTINUATION.
- CONCRETE ENCASE CONDUIT(S) UNDER ROADWAYS, DRIVEWAYS, AND PARKING LOTS. MINIMUM OF 3" CONCRETE ENCASEMENTS.
- WHENEVER POSSIBLE, DUCT ARRANGEMENTS SHALL BE RESTRICTED TO EITHER A TWO (2) CONDUIT WIDTH OR A CONDUIT DEPTH TO ALLOW SIDE EXPOSURE OF ALL DUCTS. WHEN NOT POSSIBLE, ADDITIONAL INNER DUCTS WITH NO SIDE EXPOSURE SHALL BE PROVIDED AND SHALL NOT BE USED FOR POWER WIRING. EXCEPTION: A DUCT WITH NO SIDE EXPOSURE MAY BE USED FOR LOW VOLTAGE SYSTEM WIRING AND/OR FIBER OPTIC CABLING.
- MINIMUM SEPARATION BETWEEN CONDUITS SHALL BE 3". MINIMUM SPACING BETWEEN POWER AND COMMUNICATION CONDUITS SHALL BE 12". REFER TO DRAWINGS FOR EXACT CONDUIT REQUIREMENTS. EXACT CONFIGURATION AND DEPTH SHALL BE ADJUSTED AFTER COORDINATION WITH OTHER TRADES ON SITE. REFER TO COORDINATION NOTES ON THE DRAWINGS.

5 DUCT BANK UNDER NEW PAVEMENT DETAIL

N.T.S.

ONE LINE NOTES:

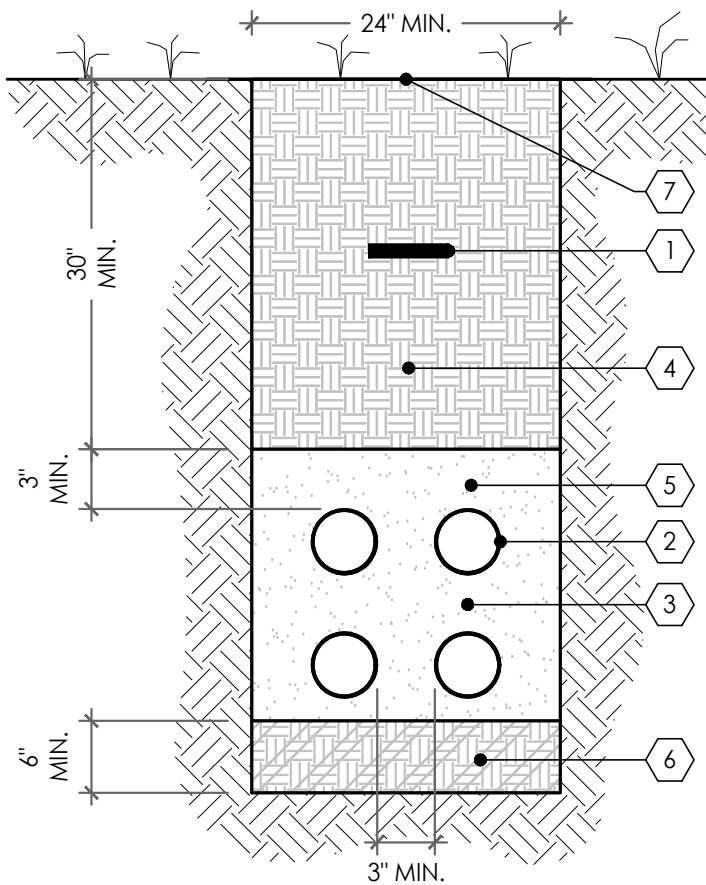
- PARALLEL FEEDER CONDUCTORS SHALL BE CUT TO EXACTLY THE SAME LENGTHS AND SHALL BE FROM THE SAME FACTORY RUN. ALL CONNECTIONS FOR SAME SHALL BE TORQUED TO IDENTICAL VALUES.
- EXTERIOR ELECTRICAL WORK SHALL NOT ONLY BE WEATHERPROOF AND WATER-TIGHT, BUT SHALL ALSO BE RUST-RESISTANT.
- CONDUCTORS BELOW GRADE OR SUBJECT TO MOISTURE SHALL BE "XHHW-2".
- POWER DISTRIBUTION EQUIPMENT SUPPLIER SHALL PROVIDE EQUIPMENT APPROPRIATELY RATED AND BRACED TO ACCOMMODATE THE AVAILABLE FAULT CURRENT AT THE UTILITY COMPANY TRANSFORMER SECONDARIES. THIS SUPPLIER SHALL ACCORDINGLY PROVIDE ANY RELATED CALCULATIONS SO THAT THEIR EQUIPMENT IS PROPERLY COORDINATED FOR THE AVAILABLE FAULT CURRENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THIS SUPPLIER WITH COPIES OF THE ELECTRICAL DOCUMENTS AS REQUIRED SO THAT PROPERLY RATED/BRACED EQUIPMENT IS PROVIDED UNDER BASE BID.
- GROUNDING ELECTRODE CONDUCTORS SHALL BE PROVIDED IN STRICT COMPLIANCE WITH NEC, INCLUDING NEC ARTICLE 250 AND TABLE 250.66.
- EQUIPMENT GROUNDING CONDUCTORS SHALL BE PROVIDED IN STRICT COMPLIANCE WITH NEC, INCLUDING NEC ARTICLE 250 AND TABLE 250.122. THESE CONDUCTORS MAY NOT BE INDICATED ON RISERS OR SINGLE-LINES, BUT SHALL BE PROVIDED UNDER BASE BID NEVERTHELESS.
- WORKING CLEARANCES SHALL BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT (SWITCHBOARDS, PANELBOARDS, TRANSFORMER STARTERS, DISCONNECTS, ETC. AS APPLICABLE) IN STRICT COMPLIANCE WITH NEC CHAPTER 1, PART 8, SECTION 110.24(g). LOCATIONS SHOWN ON FLOOR PLANS ARE SCHEMATIC AND DIAGRAMMATIC IN NATURE. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COMPLIANCE WITH THE ABOVE NEC REFERENCE. THIS REQUIREMENT APPLIES TO EQUIPMENT ON FLOOR PLANS AS WELL AS TO EQUIPMENT SHOWN ON RISER.
- HOLD ALL NEW OVERHEAD ELECTRICAL WORK AS TIGHT AS POSSIBLE TO UNDERSIDE OF ROOF DECK. LOCATE ANY RELATED PULLBOXES SO THAT THEY WILL BE FULLY ACCESSIBLE AFTER ALL CONSTRUCTION WORK IS COMPLETE. AS WITH ALL WORK, COORDINATE IN ADVANCE WITH ALL OTHER TRADES.
- ROUTE FEEDER CONDUITS BELOW GRADE WHEREVER POSSIBLE. COORDINATE WITH ALL ARCHITECTURAL, STRUCTURAL & MECHANICAL DRAWINGS VERY CAREFULLY BEFORE LAYING OUT FEEDER ROUTES.
- ALL PANELS SHALL BE NEMA 1 ENCLOSURES UNLESS OTHERWISE NOTED.
- ALL PANELS SHALL BE SURFACE MOUNTED UNLESS OTHERWISE NOTED.

1 ONE LINE DIAGRAM

N.T.S.

6 SITE CONDUIT DETAIL

N.T.S.



KEYED NOTES:

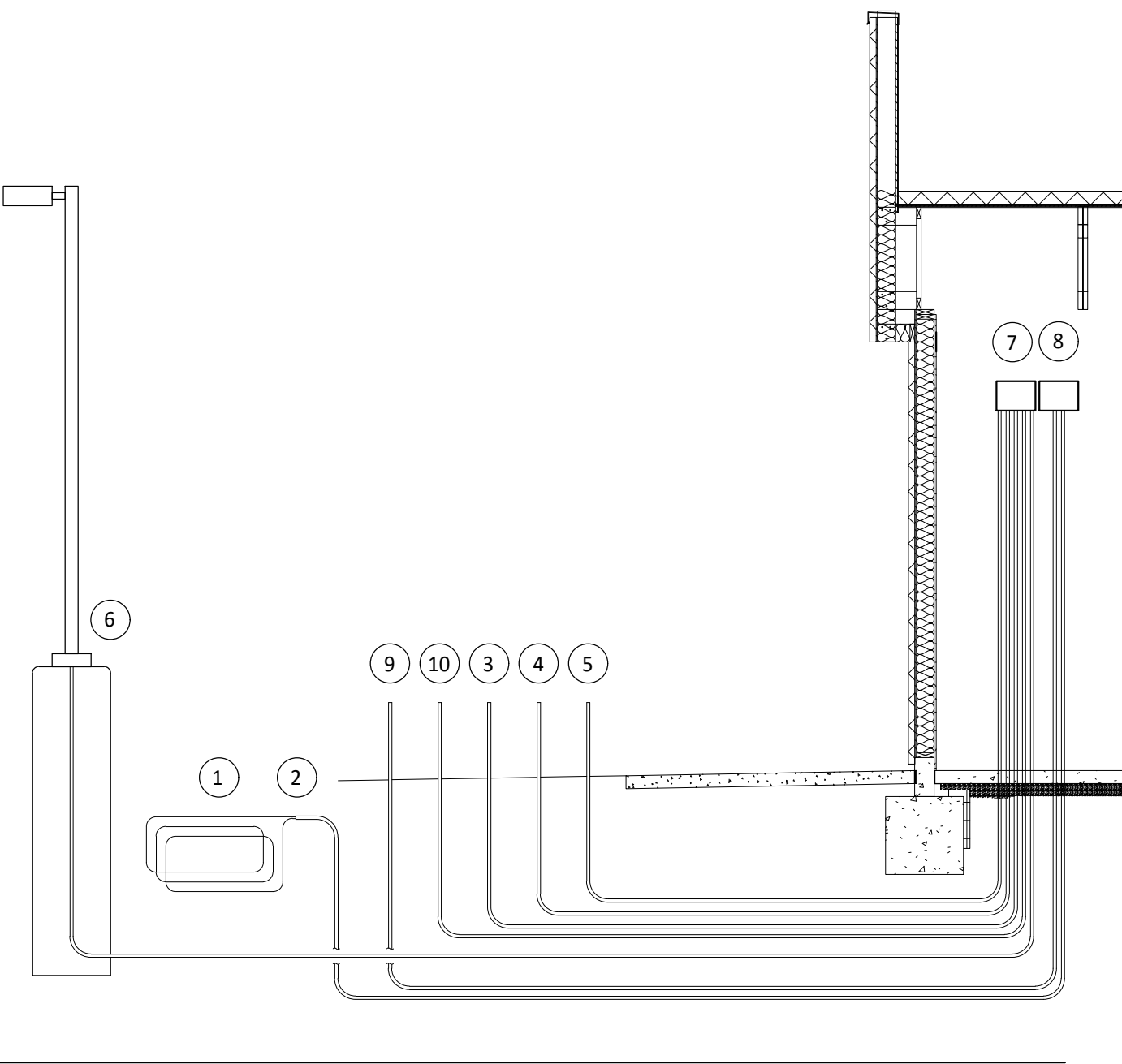
- 3" WIDE DETECTABLE TAPE. INSTALL 12" BELOW FINISHED GRADE. (ONE PER 12" OF TRENCH WIDTH)
- ELECTRICAL DUCTS SHALL BE 4" (UNLESS OTHERWISE NOTED) SCHEDULE 40 PVC.
- INSTALL 4" SEPARATION BETWEEN DUCTS AND SIDES OF TRENCH. ALIGN DUCTS ON CHAIRS.
- BACKFILL WITH EXCAVATED OR BORROWED MATERIAL. MATERIAL SHALL BE FREE OF ROCKS 2" DIAMETER AND LARGER. COMPACT TO 90% IN MAX 8" LIFT OF LOOSE SOIL.
- SAND WELL TAMPED INTO PLACE.
- ALL PIPING SHALL BE LAID ON A BED OF CLEAN FILL 6" DEEP WELL TAMPED INTO PLACE AND PROPERLY GRADED TO PERMIT THE PIPE TO HAVE AN EVEN BEARING THROUGHOUT ITS ENTIRE LENGTH.
- TOPSOIL/SEEDING TO MATCH EXISTING.

GENERAL NOTES:

- TYPICAL FOR ALL CONDUITS/DUCT BANKS, REGARDLESS OF QUANTITY.
- BRANCH CIRCUITS SHALL BE LIMITED TO 40A/3 PHASE FOR THIS DETAIL.
- WHENEVER POSSIBLE, DUCT ARRANGEMENTS SHALL BE RESTRICTED TO EITHER A TWO (2) CONDUIT WIDTH OR A CONDUIT DEPTH TO ALLOW SIDE EXPOSURE OF ALL DUCTS. WHEN NOT POSSIBLE, ADDITIONAL INNER DUCTS WITH NO SIDE EXPOSURE SHALL BE PROVIDED AND SHALL NOT BE USED FOR POWER WIRING. EXCEPTION: A DUCT WITH NO SIDE EXPOSURE MAY BE USED FOR LOW VOLTAGE SYSTEM WIRING AND/OR FIBER OPTIC CABLING.
- MINIMUM SEPARATION BETWEEN CONDUITS SHALL BE 3". MINIMUM SPACING BETWEEN POWER AND COMMUNICATION CONDUITS SHALL BE 12". REFER TO DRAWINGS FOR EXACT CONDUIT REQUIREMENTS. EXACT CONFIGURATION AND DEPTH SHALL BE ADJUSTED AFTER COORDINATION WITH OTHER TRADES ON SITE. REFER TO COORDINATION NOTES ON THE DRAWINGS.

4 DUCT BANK UNDER LAWN DETAIL

N.T.S.

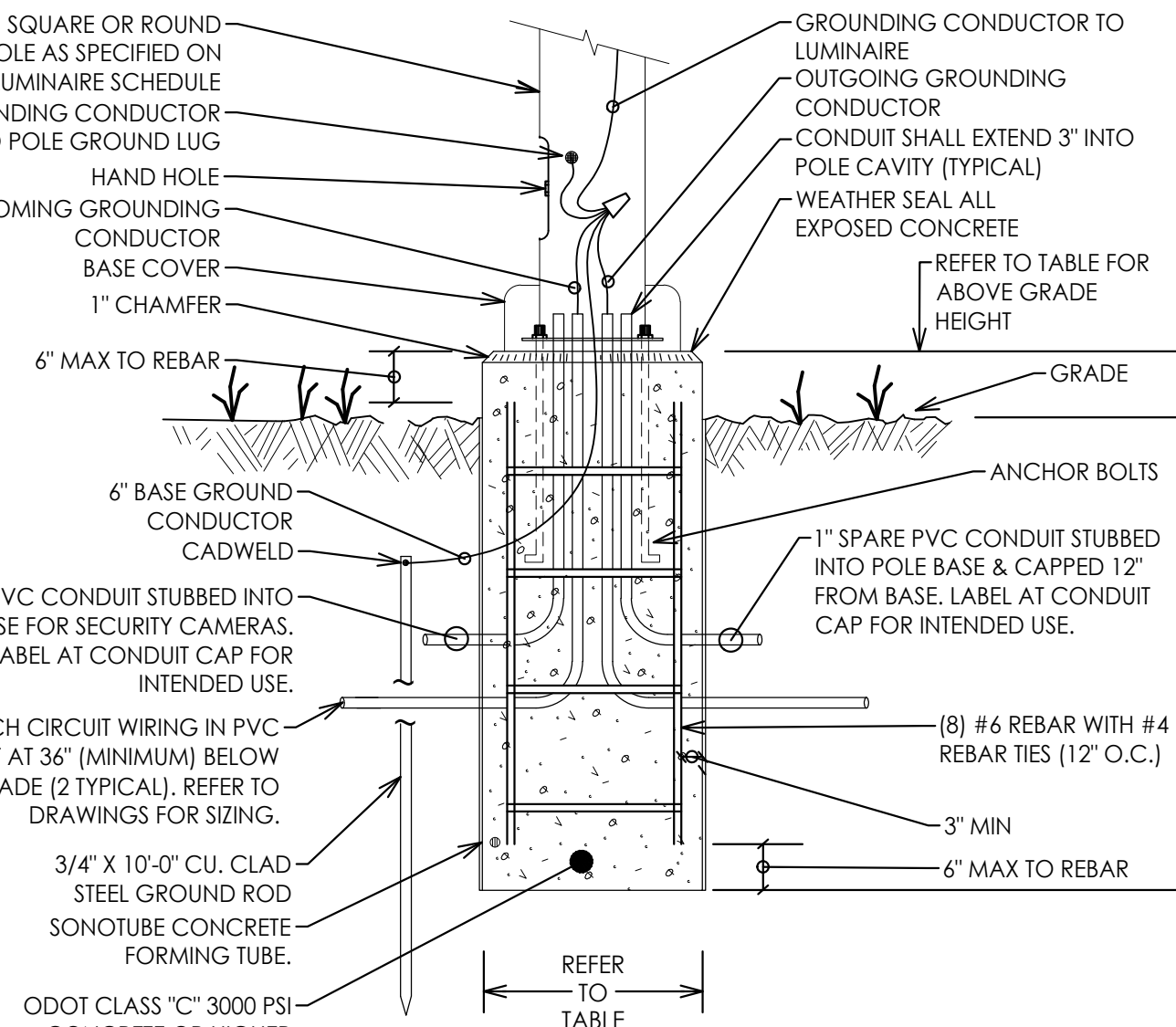
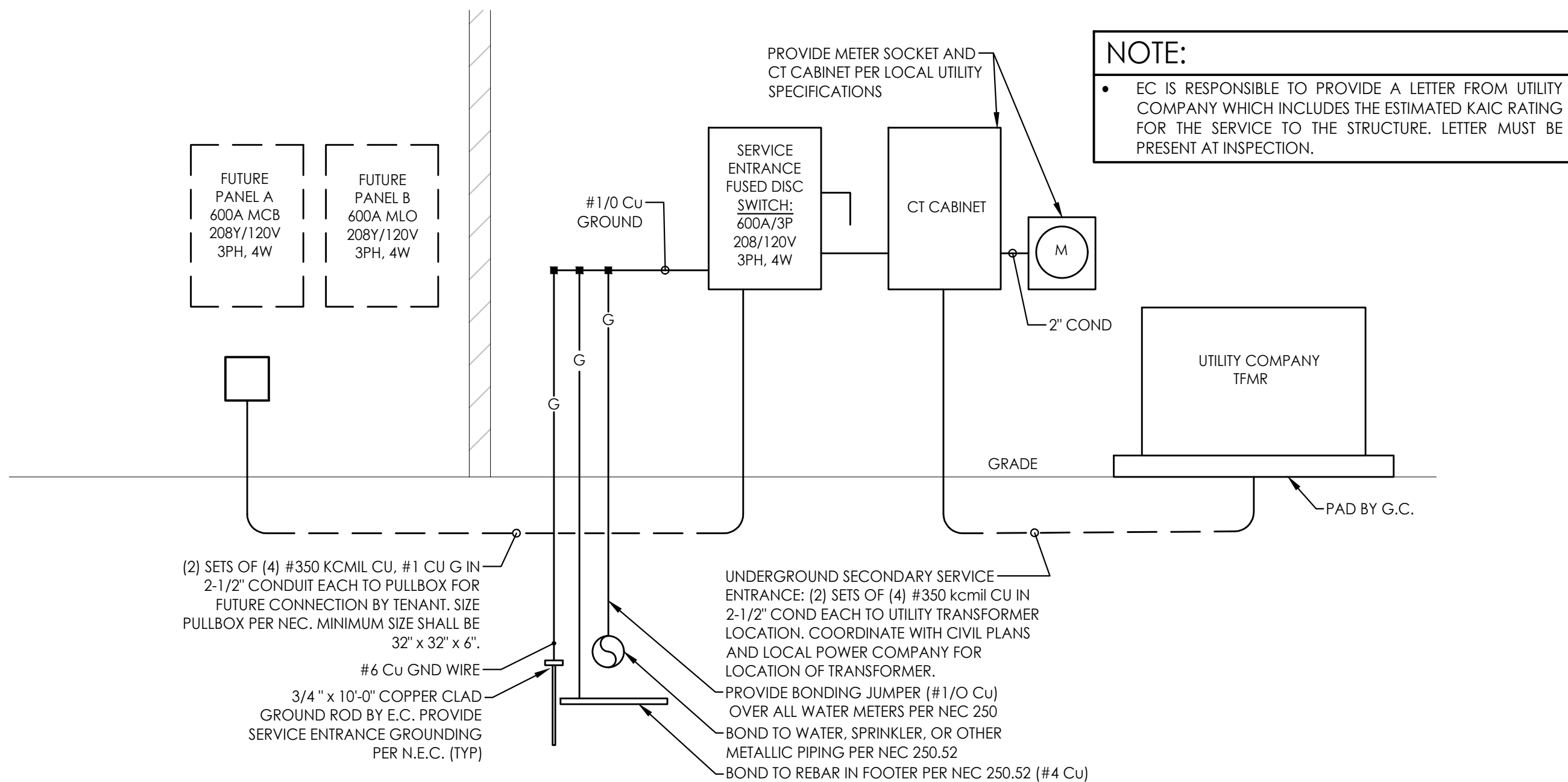


GENERAL NOTES:

- CONTRACTOR SHALL LOCATE UNDERGROUND CONDUIT AT A MINIMUM OF 10'-0" FROM NEAREST TREE, OR IF NOT PRACTICAL, AS DIRECTED IN FIELD BY THE LANDSCAPE ARCHITECT.
- ALL UNDERGROUND ELECTRICAL CONDUIT SHALL HAVE A DETECTABLE WARNING TAPE INSTALLED 12" BELOW GRADE - DIRECTLY ABOVE THE CONDUIT. WARNING TAPE SHALL BE "TERRA TAPE", 3" WIDE, LABELED WITH "CAUTION A, B, C, OR D BURIED BELOW".
 - A - "ELECTRIC LINE", #42-0064
 - B - "TELEPHONE LINE", #42-0041
 - C - "HIGH VOLTAGE LINE", #42-0111
 - D - "FIBER OPTIC CABLE", #42-0037
- CONTRACT: REEF INDUSTRIES, INC. 1-800-231-6074
- CONCRETE ENCASE CONDUIT(S) UNDER ROADWAYS, DRIVEWAYS AND PARKING LOTS. MINIMUM OF 3" CONCRETE ENCASUREMENT. (NOT APPLICABLE FOR BRANCH CIRCUITS.)

3 UNDERGROUND CONDUIT DETAIL

N.T.S.



LUMINAIRE BASE DIMENSIONS				
POLE HEIGHT	LOCATION	BASE DEPTH	BASE DIA	ABOVE GRADE HEIGHT
≤10'-0"	PARKING	48"	18"	30"
15'-0"	PARKING	48"	24"	30"
20'-0"	PARKING	48"	24"	30"
25'-0"	PARKING	60"	24"	30"
30'-0"	PARKING	72"	24"	30"

NOTES:

- DETAIL ASSUMES 2000 PSF AVERAGE LATERAL SOIL BEARING CAPACITY IN UNDISTURBED (OR WELL COMPACTED) EARTH.
- DESIGN ASSUMES SINGLE OR DOUBLE LUMINAIRE NOT EXCEEDING POLE MANUFACTURE'S SPECIFICATIONS FOR WEIGHT, MAXIMUM EPA (EFFECTIVE PROJECTED AREA), AND 100 MPH DESIGN WIND SPEED.
- CONSULT STRUCTURAL ENGINEER IF ACTUAL SITE CONDITIONS (OR LUMINAIRE CONFIGURATION) VARIES FROM DESIGN ASSUMPTIONS.
- USE GRADE 60 REINFORCING STEEL. USE EPOXY COATED STEEL IN PARKING LOT APPLICATIONS OR IN AREAS WHERE DE-ICING SALT IS USED. MAINTAIN 3" (MINIMUM).
- INSTALL POLE IN STRICT ACCORDANCE WITH POLE MANUFACTURER'S RECOMMENDATIONS. VIBRATION DAMPERS SHALL BE PROVIDED.
- ANCHOR BOLTS SHALL NOT BE CUT OFF FOR ANY REASON. EXTENSION COUPLERS ARE NOT PERMITTED.
- INSTALL FOUNDATION A MINIMUM OF 2'-6" FROM BACK OF CURB IN PARKING LOTS. INSTALL FOUNDATION A MINIMUM OF 36" FROM STORM OR SANITARY PIPING.
- AT LOCATIONS WHERE THE EXISTING SLOPE IS 6:1 OR GREATER, THE BURIED DEPTH OF FOUNDATION SHALL APPLY TO THE LOW SIDE OF SLOPE.

2 POLE MOUNTED LUMINAIRE BASE DETAIL

N.T.S.

Consultant:
annex
ENGINEERING GROUP
589 w nationwide blvd ste b
columbus, ohio 43215
tel: 614.481.2292
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BID SET

NOT FOR
CONSTRUCTION

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TBD US 98
LAKELAND, FL 33812

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EPL002

Contents:

DETAILS & DIAGRAMS
ELECTRICAL SHELL

E400

