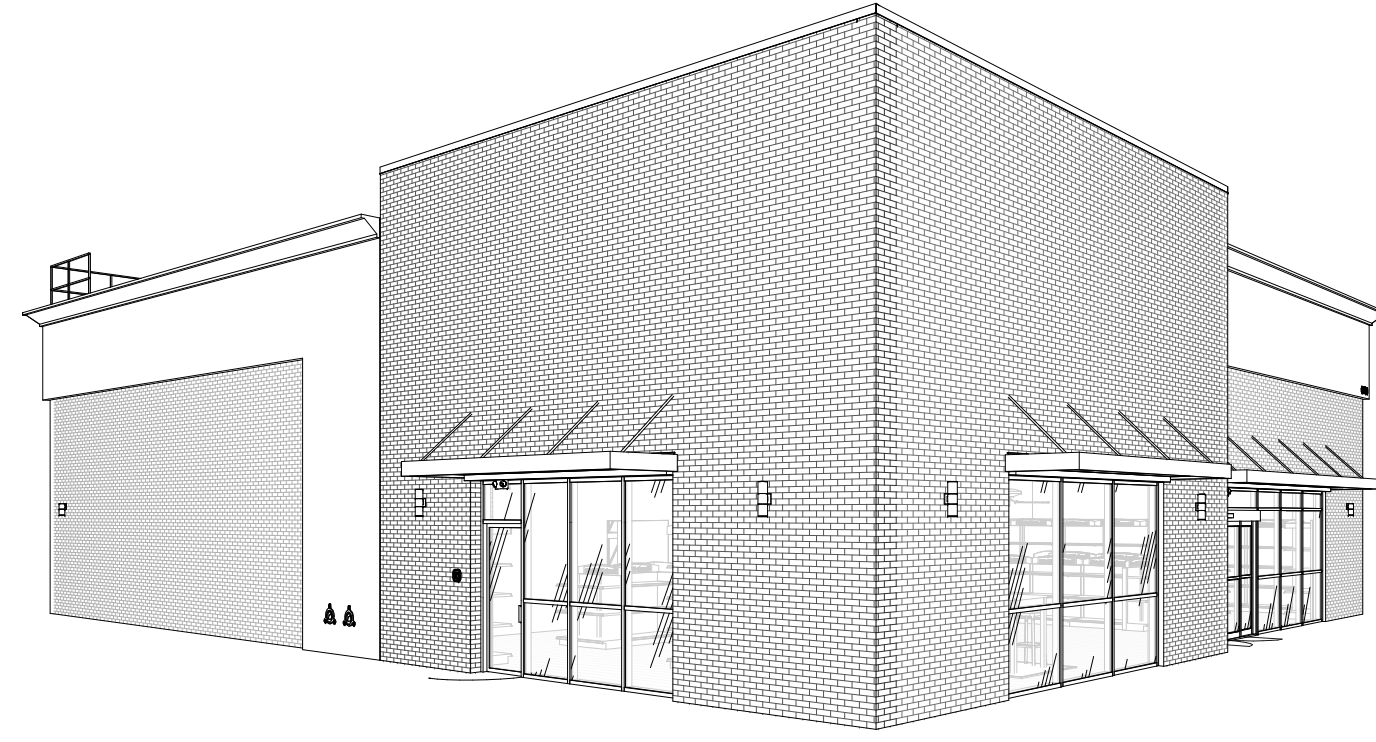


PROJECT TEAM DIRECTORY	
OWNER	
COMPANY NAME:	BELTERRA PARTNERS
CONTACT NAME:	SCOTT SMITH
ADDRESS:	728 SHADES CREEK PKWY SUITE 130 BIRMINGHAM AL 35209
PHONE:	(205) 968-1701
FAX:	---
EMAIL:	SCOTT@BELTERRAPARTNERS.COM
ARCHITECT	
COMPANY NAME:	LINGLE DESIGN GROUP
CONTACT NAME:	MICHAEL PUCKETT
ADDRESS:	1860 W EVANS AVE - ENGLEWOOD, CO 80110
PHONE:	(303) 974-5873
FAX:	(815) 369-4495
EMAIL:	MPUCKETT@LINGLEDESIGN.COM
MEP ENGINEER	
COMPANY NAME:	JCAA CONSULTING ENGINEERS LLC
CONTACT NAME:	PATRICK LEONARD
ADDRESS:	4100 WADSWORTH BLVD, WHEAT RIDGE, CO 80033
PHONE:	(303) 985-3260
FAX:	(303) 987-2304
EMAIL:	PLEONARD@JCAACE.COM
STRUCTURAL ENGINEER	
COMPANY NAME:	JCAA CONSULTING ENGINEERS LLC
CONTACT NAME:	NICHOLAS ROHR
ADDRESS:	4100 WADSWORTH BLVD, WHEAT RIDGE, CO 80033
PHONE:	(303) 985-3260
FAX:	(303) 987-2304
EMAIL:	ROHR@JCAACE.COM
CIVIL ENGINEER	
COMPANY NAME:	ALM ENGINEERING, INC
CONTACT NAME:	MATT MITCHELL
ADDRESS:	
PHONE:	(512) 431-9600
FAX:	
EMAIL:	MATT@ALMENGR.COM

SHERWIN WILLIAMS

LOT 3, BLOCK "A"
HIGHWAY 973
MANOR, TX 78653



Sheet Index		
Sheet Number	Sheet Name	Current Revision
GENERAL		
G001	Cover Sheet	1
G002	General Notes	
G100	Accessibility & Egress Plan	1
ARCHITECTURAL		
A001	Architectural Site Plan	
A110	Construction Plan	1
A111	Wall Types & Details	
A112	Exterior Wall Types	
A113	Exterior Wall Types	1
A114	Exterior Wall Details	1
A115	Building Sections & Awning Details	
A120	Finish Plan	
A121	Paint Specifications	
A130	Reflected Ceiling Plan	1
A140	Fixture Plan & Schedule	
A150	Roof Plan	1
A200	Exterior Elevations & Window Schedule	
A201	Exterior Elevations	
A300	Interior Elevations	
A400	Enlarged Restroom Plan	
STRUCTURAL		
S001	STRUCTURAL GENERAL NOTES	
S002	GENERAL NOTES, SCHEDULES & DIAGRAMS	
S100	FOUNDATION PLAN	
S101	ROOF FRAMING PLAN	
S201	FOUNDATION DETAILS	
S202	FOUNDATION DETAILS	
S301	ROOF FRAMING DETAILS	
S302	ROOF FRAMING DETAILS	
S303	TYP. FRAMING DETAILS	

Sheet Index		
Sheet Number	Sheet Name	Current Revision
MECHANICAL		
M001	Mechanical Cover Sheet	
M002	Mechanical Equipment Schedules & Calculations	
M003	Mechanical Specifications	
M004	Mechanical Specifications	
M005	Mechanical Details	
M006	Mechanical Comcheck	
M100	Mechanical Floor Plan	
M200	Mechanical Roof Plan	
ELECTRICAL		
E000	ELECTRICAL SITE PLAN	
E100	ELECTRICAL SPECIFICATIONS	
E101	ELECTRICAL SPECIFICATIONS	
E200	LIGHTING PLAN	
E300	POWER PLAN	
E400	ELECTRICAL ONE LINE DIAGRAM	
E500	COMCHECK	
E501	ELECTRICAL DETAILS	
E600	PHOTOMETRICS	



LINGLE DESIGN GROUP, INC.
158 WEST MAIN STREET
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5875
WWW.LINGLEDESIGN.COM

ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE LINGLE DESIGN GROUP, INC. THEY MAY NOT BE REPRODUCED, COPIED, REPRODUCED OR DISSEMINATED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.



PROJECT #:
DRAWN BY: BA
CHECKED BY: MP

PERMIT SET - 08/12/2022
PERMIT COMMENTS - 10/03/2022

CONSTRUCTION PHASE NOTE		VICINITY MAP		STATEMENT OF COMPLIANCE		SYMBOL LEGEND		CODE / BUILDING INFORMATION																																																											
ARCHITECT'S DESIGN WITHOUT CONSTRUCTION PHASE SERVICES <p>SINCE DIRECT CONSTRUCTION OBSERVATIONS AND REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INCLUDED AS PART OF THE ARCHITECT'S BASIC SERVICES, IT IS UNDERSTOOD THAT SUCH RESPONSIBILITIES WILL BE ASSUMED BY OTHERS. LINGLE DESIGN GROUP, INC. AVAILS ITSELF TO THE CLIENT, THE CONTRACTOR, AND ANY OTHER PARTIES AS NECESSARY (VIA TELEPHONE, FAX, AND EMAIL) IN ORDER TO ASSIST IN PROVIDING CLARIFICATIONS OR RESOLVING ISSUES AND PROBLEMS THAT MAY ARISE. ALTHOUGH MANY ISSUES CAN BE EASILY ADDRESSED WITHOUT THE ARCHITECTS INVOLVEMENT, THERE ARE TIMES WHEN PARTICIPATION IS ADVISABLE. DETERMINATION OF WHEN INVOLVEMENT IS APPROPRIATE IS LEFT TO THE PROFESSIONAL DISCRETION OF THE CONTRACTOR. IT IS UNDERSTOOD THAT THE CLIENT AND/OR THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR INTERPRETATION OF THE DRAWINGS, AND ANY OTHER SUPPLEMENTAL INFORMATION, AND WHEN THE ARCHITECT IS DENIED THE OPPORTUNITY TO PROVIDE CLARIFICATIONS OR PARTICIPATE IN CHANGES TO THE DESIGN OR THE RESOLUTION OF ISSUES OR PROBLEMS, ALL PARTIES WAIVE ANY CLAIMS AGAINST THE ARCHITECT THAT MAY BE IN ANY WAY CONNECTED THERETO. LINGLE DESIGN GROUP, INC. IS HELD HARMLESS FROM LOSS, CLAIM, OR COSTS ARISING OR RESULTING FROM MODIFICATIONS OR CHANGES MADE TO THE DESIGN (WITHOUT THE KNOWLEDGE OF THE ARCHITECT) DUE TO CONDITIONS OR CIRCUMSTANCES (ANTICIPATED OR NOT) BEYOND THE ARCHITECT'S CONTROL.</p>		<p>PROJECT LOCATION</p> <p>NOTE: CONSTRUCTOR SHALL VISIT THE SITE PRIOR TO BID, TO CONFIRM FIELD CONDITIONS FOR DUCTWORK RUNS, EXHAUST AND CHASE LOCATIONS.</p>		<p>I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH ALL APPLICABLE LAWS, CODES & ORDINANCES.</p> <p>SIGNATURE:  ARCHITECT</p> <p>REGISTRATION NO.: 18179 </p> <p>DATE: 30 / SEP / 2022</p>		<table border="1"> <tr> <th colspan="2">SYMBOL LEGEND</th> </tr> <tr> <td> #/###</td> <td>DETAIL NUMBER</td> </tr> <tr> <td></td> <td>WALL SECTION MARKER</td> </tr> <tr> <td> #/###</td> <td>BUILDING SECTION MARKER</td> </tr> <tr> <td> #/###</td> <td>ELEVATION MARKER</td> </tr> <tr> <td> #/###</td> <td>DETAIL MARKER</td> </tr> <tr> <td> XX-X</td> <td>FINISH TYPE MARK</td> </tr> <tr> <td> ###</td> <td>DOOR TYPE</td> </tr> <tr> <td> #/###</td> <td>WINDOW TYPE</td> </tr> <tr> <td> Name Elevation</td> <td>ELEVATION MARKER</td> </tr> </table>		SYMBOL LEGEND		#/###	DETAIL NUMBER		WALL SECTION MARKER	#/###	BUILDING SECTION MARKER	#/###	ELEVATION MARKER	#/###	DETAIL MARKER	XX-X	FINISH TYPE MARK	###	DOOR TYPE	#/###	WINDOW TYPE	Name Elevation	ELEVATION MARKER	<table border="1"> <tr> <th colspan="2">CODE / BUILDING INFORMATION</th> </tr> <tr> <td colspan="2">BUILDING CODES:</td> </tr> <tr> <td>BUILDING:</td> <td>2015 INTERNATIONAL BUILDING CODE</td> </tr> <tr> <td>MECHANICAL:</td> <td>2015 INTERNATIONAL MECHANICAL CODE</td> </tr> <tr> <td>ELECTRICAL:</td> <td>2014 NATIONAL ELECTRICAL CODE</td> </tr> <tr> <td>PLUMBING:</td> <td>2015 INTERNATIONAL PLUMBING CODE</td> </tr> <tr> <td>FUEL GAS:</td> <td>2015 INTERNATIONAL FUEL GAS CODE</td> </tr> <tr> <td>FIRE:</td> <td>2015 INTERNATIONAL FIRE CODE</td> </tr> <tr> <td>ENERGY:</td> <td>2015 INTERNATIONAL ENERGY CONSERVATION CODE</td> </tr> <tr> <td>ACCESSIBILITY:</td> <td>2009 ICC/ANSI A117.1</td> </tr> <tr> <td colspan="2">BUILDING INFORMATION:</td> </tr> <tr> <td>CONSTRUCTION TYPE:</td> <td>V-B</td> </tr> <tr> <td>SCOPE OF WORK:</td> <td>NEW CONSTRUCTION</td> </tr> <tr> <td>FLOOR AREA:</td> <td>4,372 SQ. FT.</td> </tr> <tr> <td>STORIES / HEIGHT:</td> <td>1 STORY / 25'-0"</td> </tr> <tr> <td>FIRE PROTECTION:</td> <td>PORTABLE FIRE EXTINGUISHERS</td> </tr> <tr> <td>INTERIOR FINISHES:</td> <td>CLASS C FLAME SPREAD RATING</td> </tr> <tr> <td>NUMBER OF EMPLOYEES:</td> <td>4</td> </tr> <tr> <td>OCCUPANCY:</td> <td>M (MERCANTILE) - OCCUPANT LOAD: 57</td> </tr> </table>		CODE / BUILDING INFORMATION		BUILDING CODES:		BUILDING:	2015 INTERNATIONAL BUILDING CODE	MECHANICAL:	2015 INTERNATIONAL MECHANICAL CODE	ELECTRICAL:	2014 NATIONAL ELECTRICAL CODE	PLUMBING:	2015 INTERNATIONAL PLUMBING CODE	FUEL GAS:	2015 INTERNATIONAL FUEL GAS CODE	FIRE:	2015 INTERNATIONAL FIRE CODE	ENERGY:	2015 INTERNATIONAL ENERGY CONSERVATION CODE	ACCESSIBILITY:	2009 ICC/ANSI A117.1	BUILDING INFORMATION:		CONSTRUCTION TYPE:	V-B	SCOPE OF WORK:	NEW CONSTRUCTION	FLOOR AREA:	4,372 SQ. FT.	STORIES / HEIGHT:	1 STORY / 25'-0"	FIRE PROTECTION:	PORTABLE FIRE EXTINGUISHERS	INTERIOR FINISHES:	CLASS C FLAME SPREAD RATING	NUMBER OF EMPLOYEES:	4	OCCUPANCY:	M (MERCANTILE) - OCCUPANT LOAD: 57
SYMBOL LEGEND																																																																			
#/###	DETAIL NUMBER																																																																		
	WALL SECTION MARKER																																																																		
#/###	BUILDING SECTION MARKER																																																																		
#/###	ELEVATION MARKER																																																																		
#/###	DETAIL MARKER																																																																		
XX-X	FINISH TYPE MARK																																																																		
###	DOOR TYPE																																																																		
#/###	WINDOW TYPE																																																																		
Name Elevation	ELEVATION MARKER																																																																		
CODE / BUILDING INFORMATION																																																																			
BUILDING CODES:																																																																			
BUILDING:	2015 INTERNATIONAL BUILDING CODE																																																																		
MECHANICAL:	2015 INTERNATIONAL MECHANICAL CODE																																																																		
ELECTRICAL:	2014 NATIONAL ELECTRICAL CODE																																																																		
PLUMBING:	2015 INTERNATIONAL PLUMBING CODE																																																																		
FUEL GAS:	2015 INTERNATIONAL FUEL GAS CODE																																																																		
FIRE:	2015 INTERNATIONAL FIRE CODE																																																																		
ENERGY:	2015 INTERNATIONAL ENERGY CONSERVATION CODE																																																																		
ACCESSIBILITY:	2009 ICC/ANSI A117.1																																																																		
BUILDING INFORMATION:																																																																			
CONSTRUCTION TYPE:	V-B																																																																		
SCOPE OF WORK:	NEW CONSTRUCTION																																																																		
FLOOR AREA:	4,372 SQ. FT.																																																																		
STORIES / HEIGHT:	1 STORY / 25'-0"																																																																		
FIRE PROTECTION:	PORTABLE FIRE EXTINGUISHERS																																																																		
INTERIOR FINISHES:	CLASS C FLAME SPREAD RATING																																																																		
NUMBER OF EMPLOYEES:	4																																																																		
OCCUPANCY:	M (MERCANTILE) - OCCUPANT LOAD: 57																																																																		

ABBREVIATIONS

# (E) (N) +/- AT @ ø	POUND OR NUMBER EXISTING NEW PLUS OR MINUS CONTROL JOINT CENTER LINE CEILING COLUMN CLEAR COLUMN COMPOSITE CONCRETE CONDENSING UNIT CONNECTION CONSTRUCTION CONTINUOUS / CONTINUE CONTRACTOR CENTER CUBIC FOOT CUBIC YARD	C.M. CONCRETE MASONRY UNIT C.U. CEILING JOIST C/O CLEANOUT CJ CONTROL JOINT CL CENTER LINE CLG. CEILING CLR. CLEAR COL COLUMN COMP COMPOSITE CONC. CONCRETE COND CONDENSING UNIT CONN. CONNECTION CONSTR. CONSTRUCTION CONT. CONTINUOUS / CONTINUE CONTR. CONTRACTOR CTR. CENTER CU FT CUBIC FOOT CU YD CUBIC YARD	DN DOWN DWG. DRAWING	E. EAST E.P. ELECTRIC PANEL E.W. EACH WAY EA. EACH EJ EXPANSION JOINT EL. ELEVATION ELEC. ELECTRICAL EMER. EMERGENCY EQ. EQUAL EQUIP. EQUIPMENT EXIS. EXISTING EXT. EXTERIOR	F.F. FINISH FLOOR F.H. FIRE HYDRANT F.L. FLOW LINE F.O.C. FACE OF CONCRETE F.O.F. FACE OF FINISH F.O.M. FACE OF MASONRY F.O.S. FACE OF STUD F.O.SH. FACE OF SHEATHING F.S.R. FIRE SPRINKLER RISER F/S FLOOR SINK FOO FLOOR CLEANOUT FD FLOOR DRAIN FE FIRE EXTINGUISHER	DN DOWN DISHWASHER DRAWING	E. EAST E.P. ELECTRIC PANEL E.W. EACH WAY EA. EACH EJ EXPANSION JOINT EL. ELEVATION ELEC. ELECTRICAL EMER. EMERGENCY EQ. EQUAL EQUIP. EQUIPMENT EXIS. EXISTING EXT. EXTERIOR	F.F. FINISH FLOOR F.H. FIRE HYDRANT F.L. FLOW LINE F.O.C. FACE OF CONCRETE F.O.F. FACE OF FINISH F.O.M. FACE OF MASONRY F.O.S. FACE OF STUD F.O.SH. FACE OF SHEATHING F.S.R. FIRE SPRINKLER RISER F/S FLOOR SINK FOO FLOOR CLEANOUT FD FLOOR DRAIN FE FIRE EXTINGUISHER	FEC FIRE EXTINGUISHER CABINET	FIN. FINISH FIXT. FIXTURE FLOUR. FLOURESCENT FLR. FLOOR FND. FOUNDATION FT. FOOT/FEET FTG. FOOTING FUT. FUTURE	G.C. GENERAL CONTRACTOR G.I. GALVANIZED IRON GA. GAUGE GALV. GALVANIZED GL. GLASS / GLAZING GND. GROUND GR. GRADE / GRADING GWB. GYPSUM WALL BOARD GYP BD GYPSUM GYP.	H.TG. HEATING HVAC HEATING / VENTILATION / AIR CONDITIONING	I.D. INSIDE DIAMETER IN. INCH INSUL. INSULATE / INSULATION INT. INTERIOR INV. INVERT	J-BOX JUNCTION BOX JST. JOIST JT. JOINT	K.O. KNOCKOUT KPL. KICKPLATE	L. LENGTH L.B. LAG BOLT L.H. LEFT HAND L.L. LIVE LOAD L.L.V. LAMINATED VENEER LUMBER	M.H. MANHOLE M.O. MASONRY OPENING MAS. MASONRY MATL. MATERIAL MAX. MAXIMUM MECH. MECHANICAL MEMB. MEMBRANE MFR. MANUFACTURE(ER)(ING) MIN. MINIMUM MISC. MISCELLANEOUS MOD. MODULAR / MODULE MTD. MOUNTED MTFR METAL FURRING MTL. METAL MUL. MULLION	M. NORTH N.I.C. NOT IN CONTRACT N.T.S. NOT TO SCALE NO. NUMBER NOM. NOMINAL	O.FOI OWNER FURNISHED / OWNER INSTALLED OH. OVERHEAD OPG. OPENING OPP. OPPOSITE OPQ OPAQUE	P.L. PROPERTY LINE P.T. PRESSURE TREATED PARTN PARTITION PCF POUNDS PER CUBIC FOOT PERF PERFORATED PFL POUNDS PER LINEAR FOOT PL. PLATE PLAM PLASTIC LAMINATE PLAS. PLASTER PLBG. PLUMBING PLWD. PLYWOOD PRKG. PARKING PSF POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH PTD. PAINT(ED) PVC POLYVINYL CHLORIDE PVMT. PAVEMENT	Q.T. QUARRY TILE QTY. QUANTITY R. RISER	R.A. RETURN AIR R.D. ROOF DRAIN R.H. RIGHT HAND R.O. ROUGH OPENING R.O.W. RIGHT OF WAY RAD. RADIUS RB RUBBER BASE REF. REFERENCE REFR. REFRIGERATOR REINF. REINFORCED REQD. REQUIRED RESIL. RESILIENT RET. RETURN REV REVISION RFG. ROOFING RM. ROOM RVRS. REVERSE	S. SOUTH S.A.N SCALE AS NOTED S.A.T. SUSPENDED ACOUSTICAL TILE S.C. SOLID CORE S.D. STORM DRAIN SCHED. SCHEDULE SECT. SECTION SF SQUARE FEET SHT. SHEET SHTG. SHEATHING SIM. SIMILAR	S.LP. SLOPE SPEC. SPECIFICATION SPKR SPEAKER SQ. SQUARE	SS. STAINLESS STEEL SSK. SERVICE SINK STD. STANDARD STL. STEEL STOR. STORAGE STRUCT. STRUCTURAL SYM. SYMMETRICAL SYS. SYSTEM	T&G TONGUE AND GROOVE T. TREAD T.B.D. TO BE DETERMINED T.O.B. TOP OF BEAM T.O.C. TOP OF CURB / CONCRETE T.O.P. TOP OF PARAPET T.O.S. TOP OF SHEATHING T.O.ST. TOP OF STEEL T.O.W. TOP OF WALL TEL. TELEPHONE TFCI TENANT FURNISHED / CONTRACTOR INSTALLED TFI TENANT FURNISHED / CONTRACTOR INSTALLED TFTI TENANT FURNISHED / TENANT INSTALLED THK. THICK(NESS) THRES THRESHOLD	TINT TINTED TMPD TEMPERED TOL TOLERANCE TYP. TYPICAL	U.N.O. UNLESS NOTED OTHERWISE UBC UNIFORM BUILDING CODE UNFIN. UNFINISH(ED)	W. WEST W.B. WEATHER BARRIER W.C. WATER CLOSET W.H. WATER HEATER W.M. WIRE MESH W.R. WATER RESISTANT W.T. WALL TILE W.W.F. WELDED WIRE FABRIC W/ WITH W/O WITHOUT WD. WOOD WSCOT. WAINSCOT
--	--	---	-------------------------------	---	--	-------------------------------------	---	--	-------------------------------------	---	---	--	---	--	---------------------------------------	---	--	--	---	--	--	---	---	--	---	--	---	--	---

SHERWIN WILLIAMS

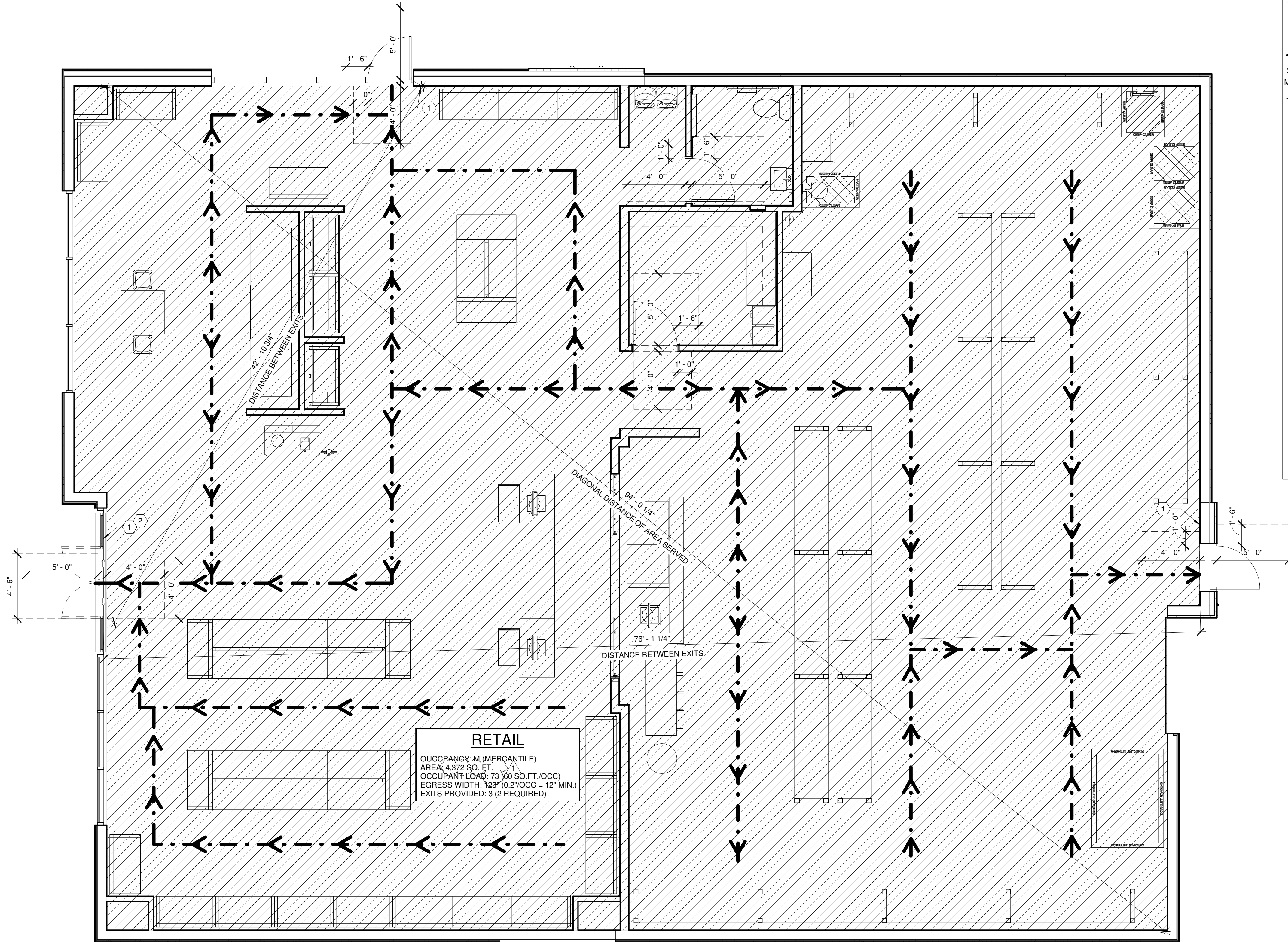
STORE #:
XXXX
ADDRESS:
LOT 3, BLOCK "A"
HIGHWAY 973
MANOR, TX 78653

SHEET TITLE:

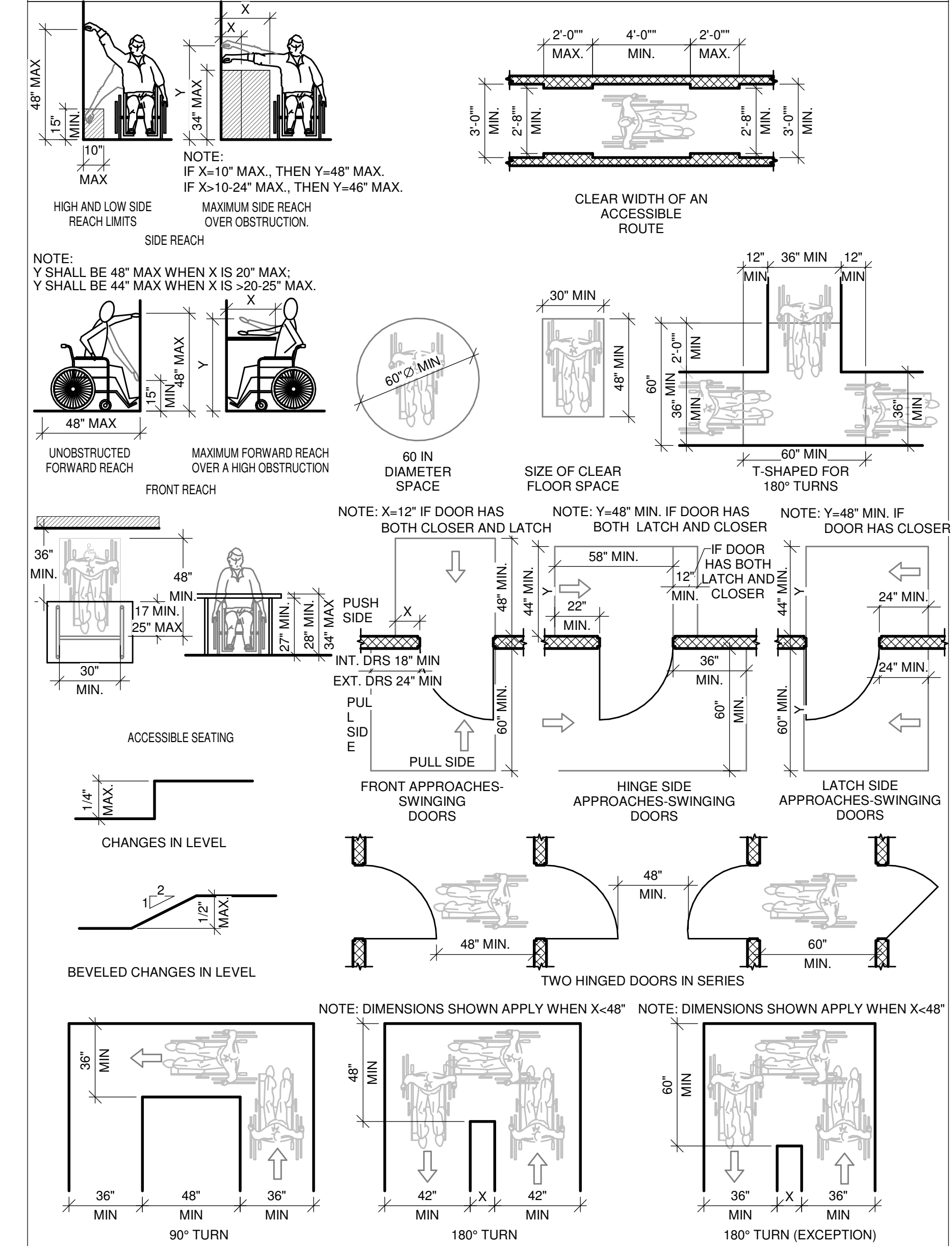
Cover Sheet

SHEET NUMBER:

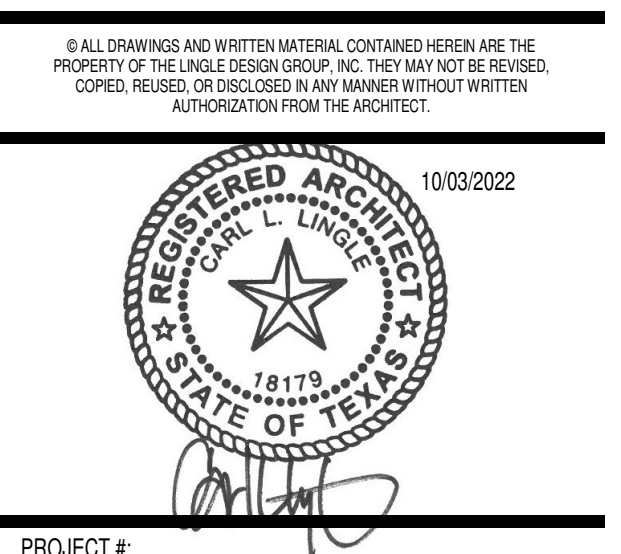
G001



TYPICAL ACCESSIBILITY DETAILS



LINGLE DESIGN GROUP, INC.
 158 WEST MAIN STREET
 LENA, IL 61048
 815.369.9155
 1764 BLAKE ST
 DENVER, CO 80202
 303.974.5875
 WWW.LINGLEDESIGN.COM



PROJECT #:
 DRAWN BY: BA
 CHECKED BY: MP

PERMIT SET - 08/12/2022
 PERMIT COMMENTS - 10/03/2022

SHERWIN WILLIAMS

STORE #:
 XXXX
 ADDRESS:
 LOT 3, BLOCK "A"
 HIGHWAY 973
 MANOR, TX 78653

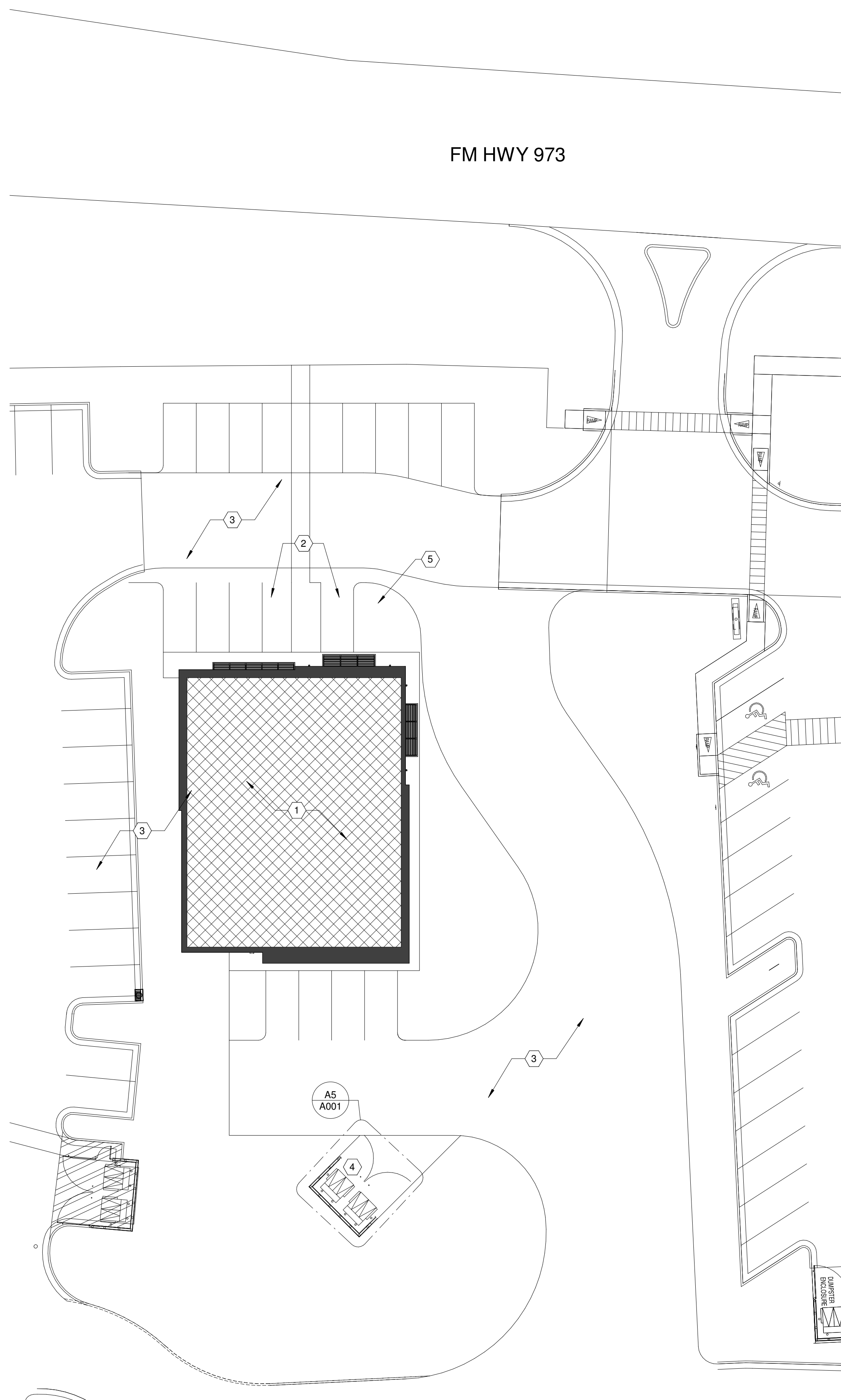
SHEET TITLE:
 Accessibility & Egress Plan

SHEET NUMBER:

G100

A1 Accessibility & Egress Plan
 1/4" = 1'-0"

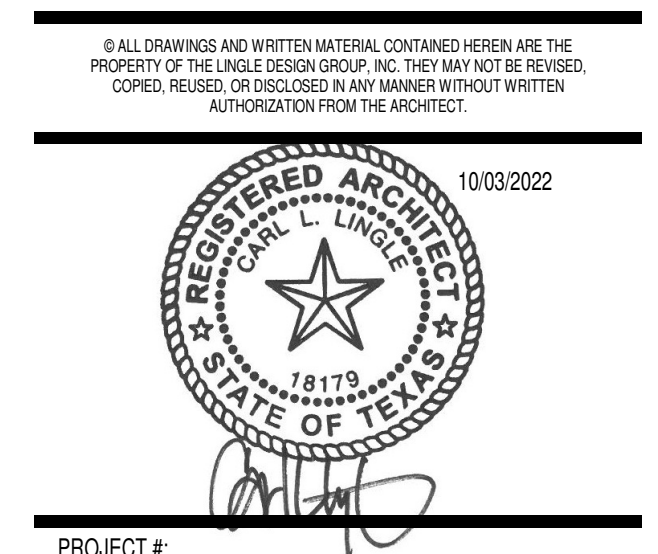
A5 Exit Signage Detail
 1/2" = 1'-0"



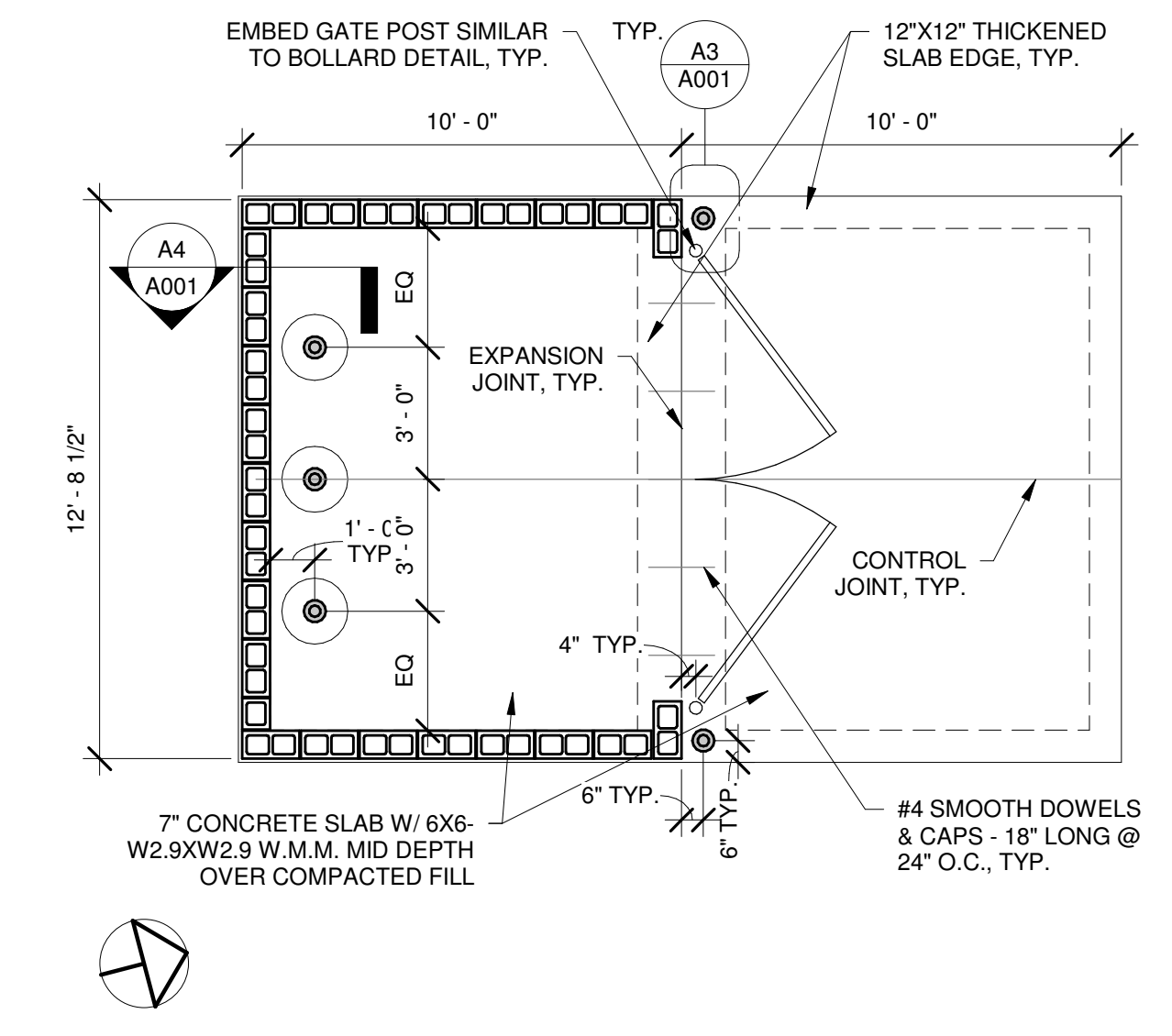
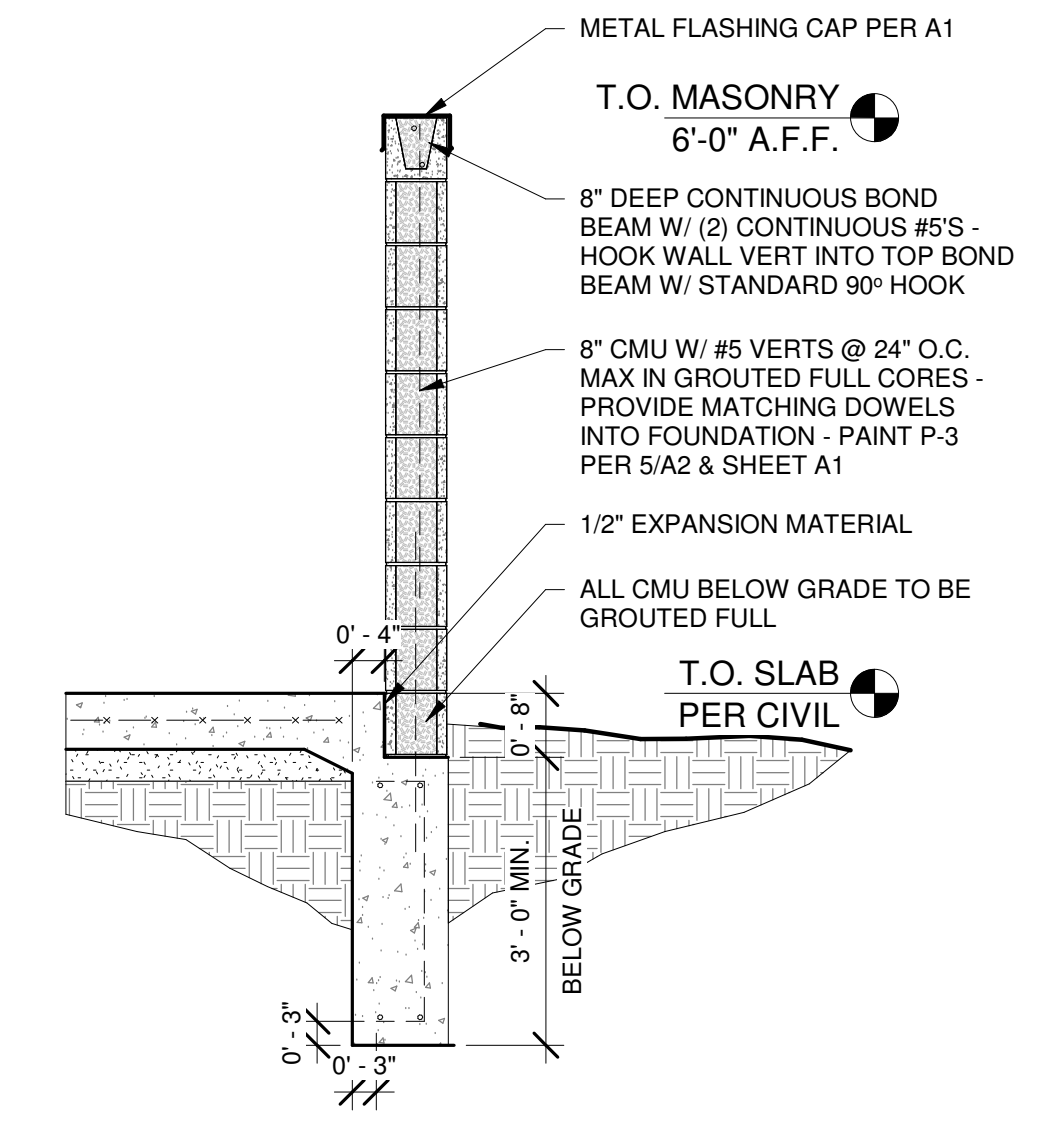
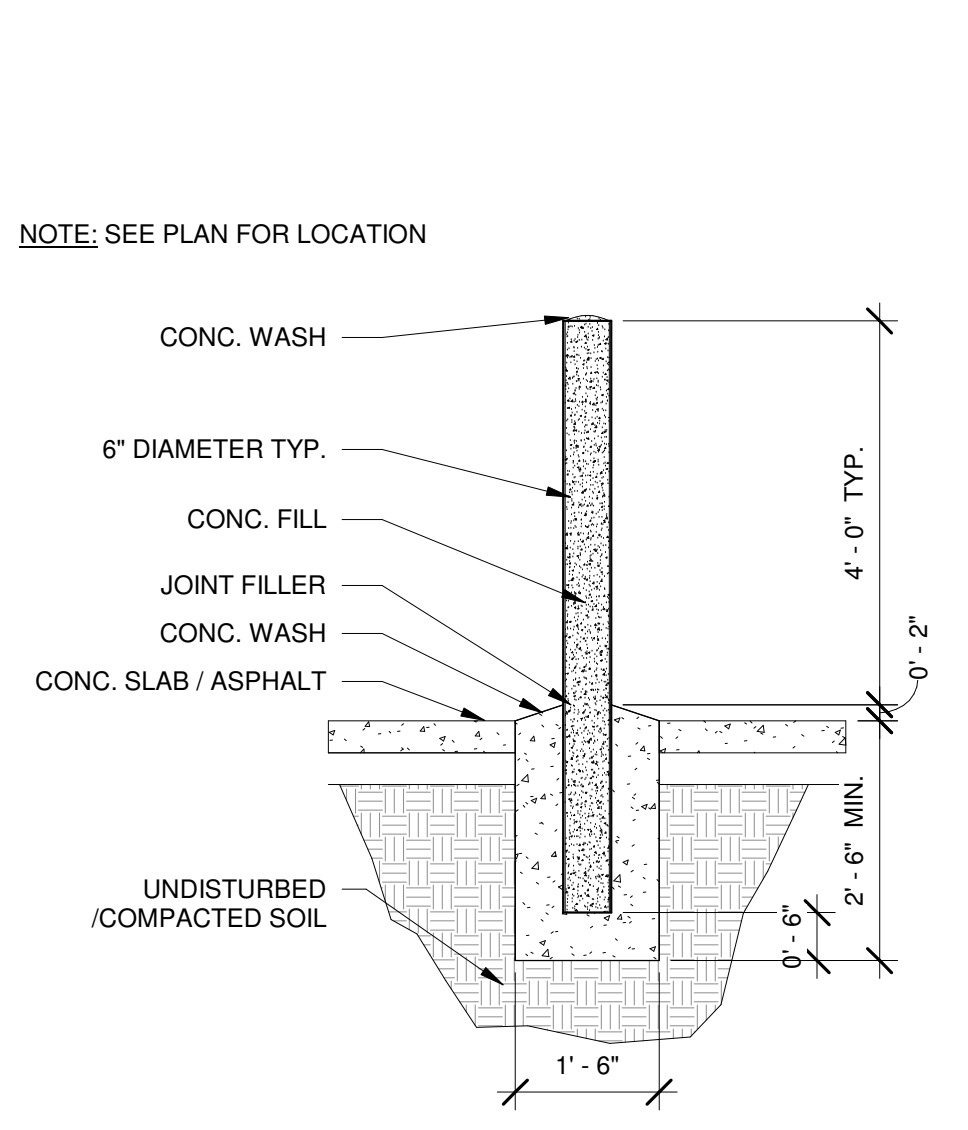
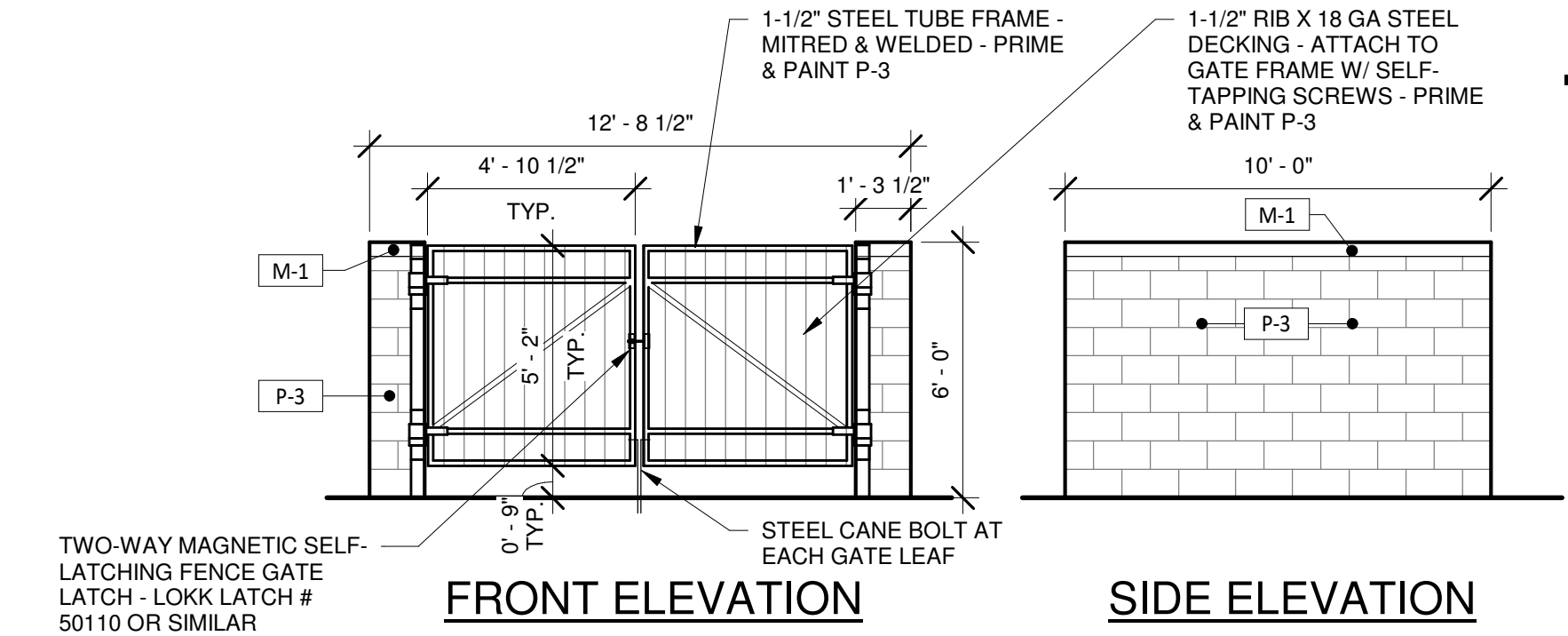
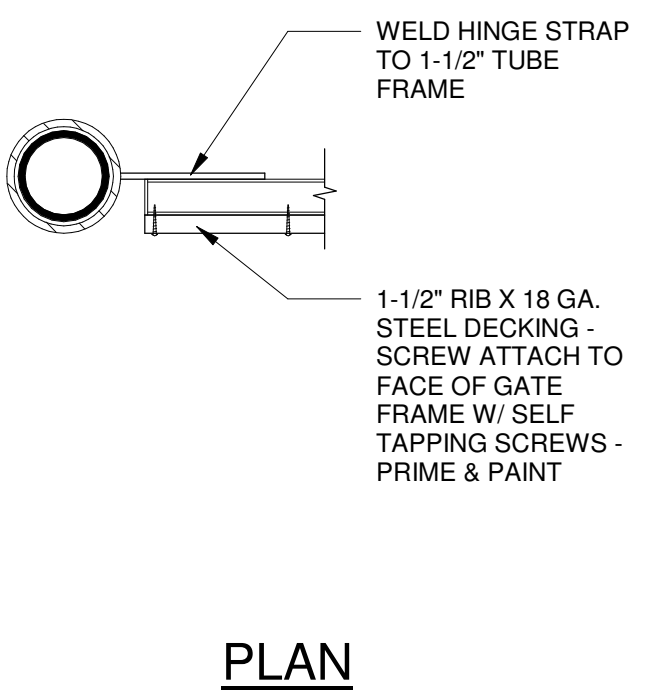
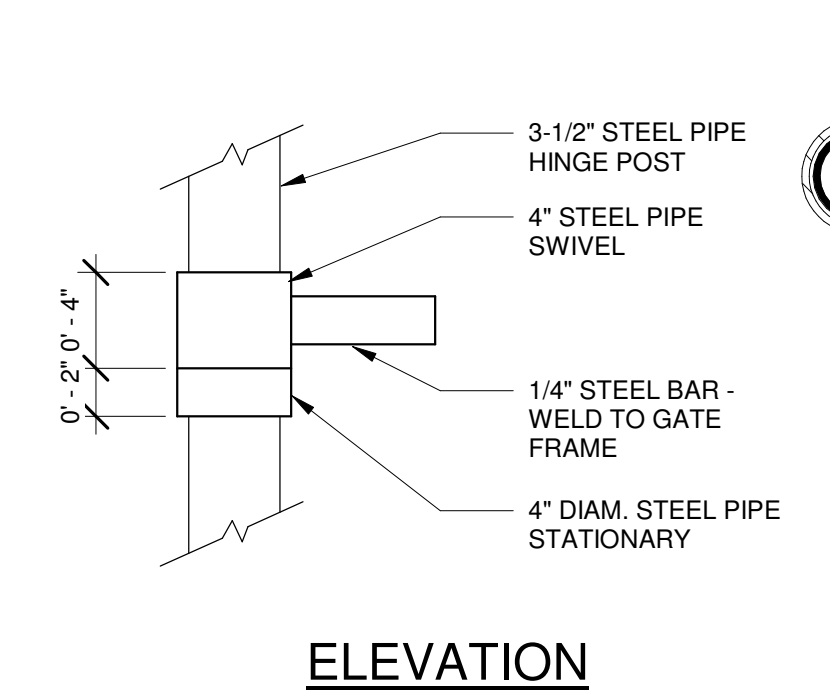
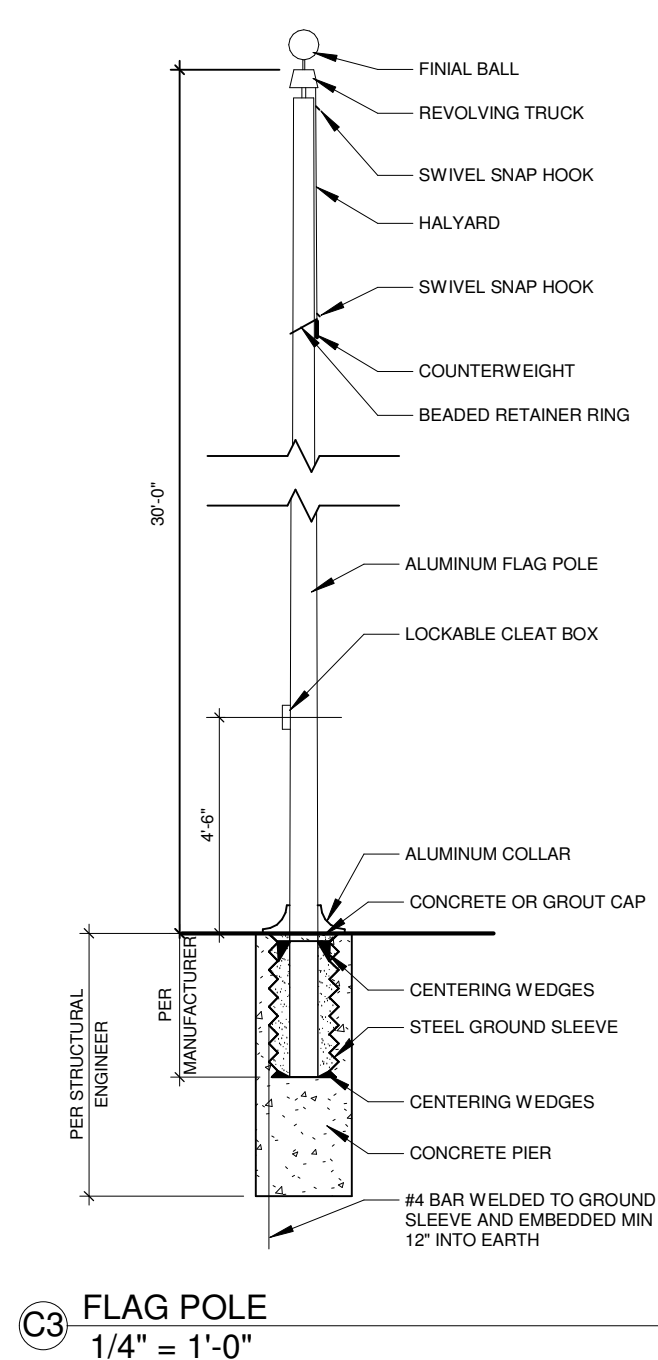
SITE PLAN CODED NOTES	
1	TENANT BUILDING
2	NEW ACCESSIBLE PARKING - REFER CIVIL FOR DETAILS
3	NEW SITEWORK & PARKING - REFER CIVIL
4	TRASH ENCLOSURE - REFER CIVIL
5	FLAG POLE - SEE DETAIL C3/A001

GENERAL NOTES	
1.	UNLESS OTHERWISE NOTED, ALL SITE & CIVIL WORK PERFORMED UNDER SEPARATE PERMIT.
2.	REFERENCE CIVIL PERMIT SET.
3.	GENERAL CONTRACTOR TO COORDINATE ALL UTILITIES SCHEDULING & CONNECTIONS.

LINGLEDISIGNGROUP, INC
 158 WEST MAIN STREET
 LENA, IL 61048
 815.369.9155
 1764 BLAKE ST
 DENVER, CO 80202
 303.974.5875
 WWW.LINGLEDISIGN.COM



PROJECT #:
 DRAWN BY: BA CHECKED BY: MP
 PERMIT SET - 08/12/2022
 PERMIT COMMENTS - 10/03/2022



A1 SITE PLAN
 1" = 20'-0"

A3 BOLLARD DETAIL
 1/2" = 1'-0"

A4 TRASH ENCLOSURE WALL SECTION CMU
 1/2" = 1'-0"

A5 TRASH ENCLOSURE PLAN CMU
 1/4" = 1'-0"

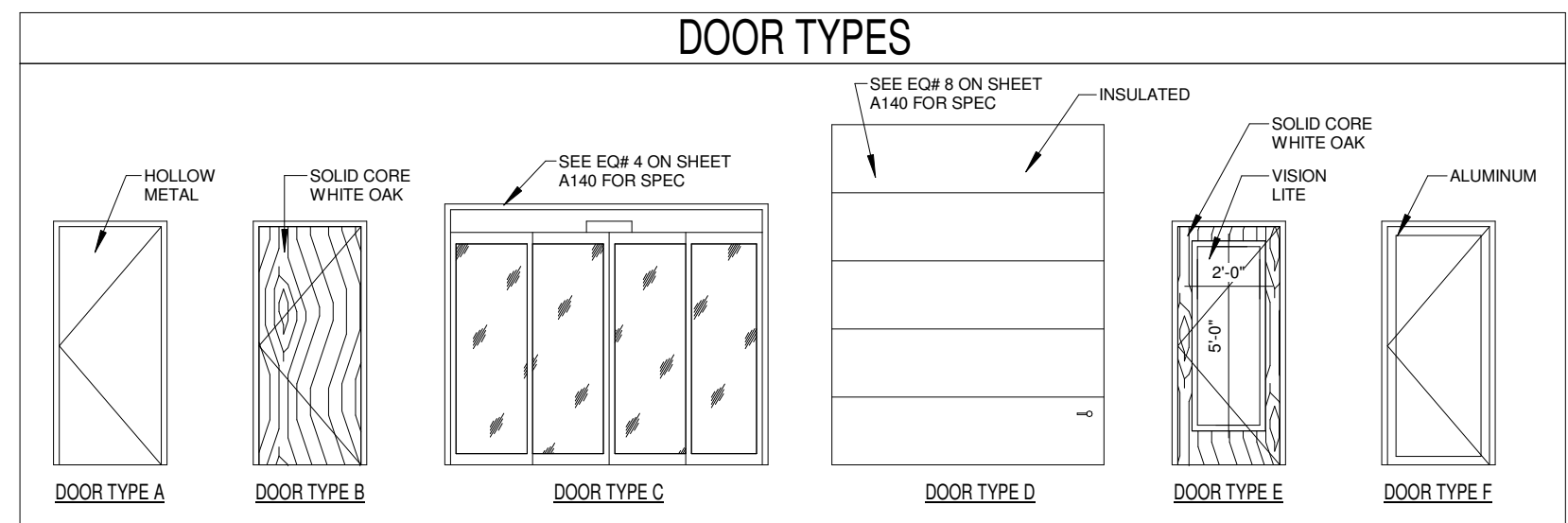
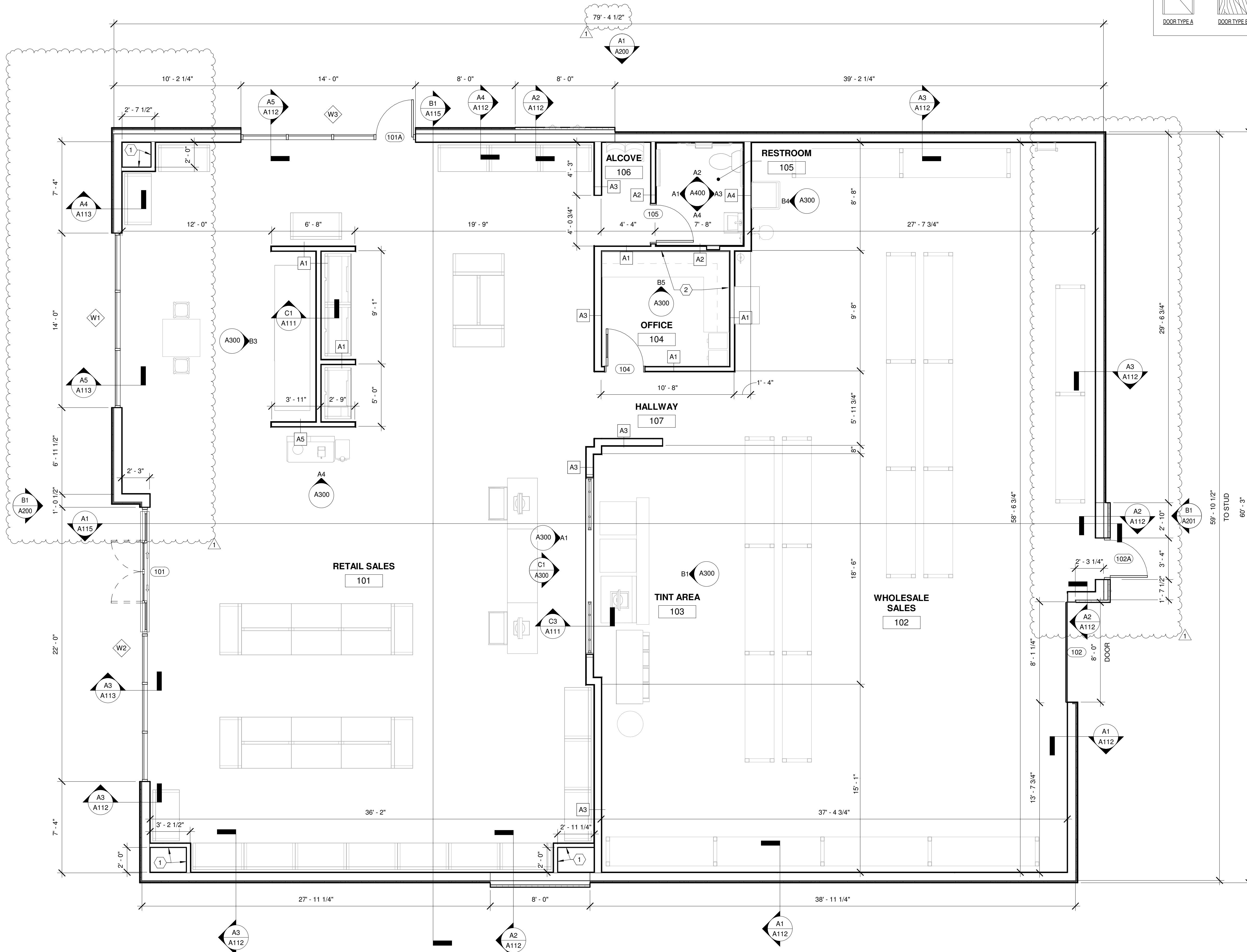
SHERWIN WILLIAMS

STORE #:
 XXXX

ADDRESS:
 LOT 3, BLOCK "A"
 HIGHWAY 973
 MANOR, TX 78653

SHEET TITLE:
 Architectural Site Plan

SHEET NUMBER:
A001



Door Schedule

Mark	Width	Height	Thickness	DOOR TYPE	DOOR MATERIAL	FRAME MATERIAL	HARDWARE GROUP
101	10' - 0"	7' - 8"	0' - 4 1/2"	C	ALUMINUM	---	GROUP 1
101A	3' - 0"	7' - 0"	0' - 1 3/4"	F	ALUMINUM	---	GROUP 6
102	8' - 0"	10' - 0"	0' - 1 1/2"	D	STEEL	---	GROUP 5
102A	3' - 0"	7' - 0"	0' - 1 3/4"	A	H.M.	H.M.-STL	GROUP 4
104	3' - 0"	7' - 0"	0' - 1 3/4"	E	WOOD	H.M.-STL	GROUP 3
105	3' - 0"	7' - 0"	0' - 1 3/4"	B	WOOD	H.M.-STL	GROUP 2

HARDWARE SCHEDULE

GROUP 1 - SLIDING DOORS

2 EA.	EXIT DEVICE	MOTION DETECTION UNIT
1 EA.	LOCK	MANUFACTURER LOCK SYSTEM
2 EA.	CLOSER	AUTOMATIC DOORS
1 EA.	SIGNAGE	"DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS"
1 EA.	SIGNAGE	"MAXIMUM OCCUPANCY" - POST AT MAIN ENTRY
1 EA.	THRESHOLD	MANUFACTURER THRESHOLD SYSTEM

GROUP 2 - RESTROOM DOORS (PRIVACY SET)

3 PR.	HINGE	STANLEY - #FBB179 - 4-1/2" X 4-1/2"
1 EA.	LATCH	SCHLAGE - ND40S-TLR (PRIVACY HARDWARE) - 626 FINISH
1 EA.	CLOSER	DORMA - 8616FHP
3 EA.	SILENCERS	GLYNN - GJ64
1 EA.	SIGNAGE	"RESTROOM" SIGNAGE PER DETAIL ON SHEET A400
1 EA.	STOP	AS REQUIRED - WALL: #407 1/2 PA28 - FLOOR: #436 OR #438 PA28

GROUP 3 - OFFICE DOOR

3 PR.	HINGE	STANLEY - #FBB179 - 4-1/2" X 4-1/2"
1 EA.	LATCH	SCHLAGE - ND50PD-TLR-SFIC - 626 FINISH
1 EA.	LOCK	LATCH-COMPATIBLE SMALL FORMAT INTERCHANGEABLE CORE
3 EA.	SILENCERS	GLYNN - GJ64
1 EA.	STOP	AS REQUIRED - WALL: #407 1/2 PA28 - FLOOR: #436 OR #438 PA28
1 EA.	VISION LITE	FULL GLASS - VERIFY W/ SHERWIN-WILLIAMS CORPORATE

GROUP 4 - SERVICE DOOR

3 PR.	HINGE	STANLEY - #FBB179 - 4-1/2" X 4-1/2"
1 EA.	PULL	YALE - 632F-626
1 EA.	EXIT DEVICE	YALE - 2150-36 - 652 FINISH (PANIC BAR)
1 EA.	CLOSER	LCN-4041 (4040 SERIES) - HEAVY DUTY CLOSER
3 EA.	SILENCERS	GLYNN - GJ64
1 EA.	THRESHOLD	PENKO - #171A - SIZE AS REQUIRED
1 EA.	SWEEP	PENKO - #307AV - SIZE AS REQUIRED
1 EA.	WEATHERSTRIP	PENKO - #303AV - SIZE AS REQUIRED

GROUP 5 - DELIVERY DOOR

1 EA.	OPENER/LOCK	MOTORIZED OPERATOR - LIFTMASTER LJ8900W
1 EA.	WEATHERSTRIP	PENKO - #303AV - SIZE AS REQUIRED

GROUP 6 - STOREFRONT DOOR

3 PR.	HINGE	4-1/2" X 4-1/2" B.B. WITT NON REMOVABLE PINS
1 EA.	LOCK	KEYED DEADBOLTS WITH INSIDE THUMBTURN
1 EA.	EXIT DEVICE	PUSH SET
1 EA.	PULL	ELMS G500-01-023-L300 OR APPROVED SIMILAR
1 EA.	CLOSER	LCN-4041 (4040 SERIES) - HEAVY DUTY CLOSER
1 EA.	THRESHOLD	PENKO - #171A - SIZE AS REQUIRED
1 EA.	SWEEP	PENKO - #307AV - SIZE AS REQUIRED

DOOR AND HARDWARE NOTES:

- G.C. TO FURNISH & INSTALL MEDECO CYLINDER IN ALL PERIMETER DOORS. SHERWIN-WILLIAMS CORPORATE WILL RE-KEY TO SHERWIN-WILLIAMS MASTER KEY SYSTEM. PROVIDE KEYWAY ON EXTERIOR FACE.
- G.C. TO FURNISH & INSTALL MEDECO CYLINDER IN ALL INTERIOR H.M. DOORS. ALL INTERIOR DOORS TO BE KEYPED ALIKE. PROVIDE KEYWAY ON EXTERIOR FACE.
- ALL HOLLOW METAL DOOR FRAMES ARE TO BE WELDED.
- G.C. TO FURNISH & INSTALL PANIC HARDWARE PER ALL APPLICABLE REGULATIONS & CODES HAVING JURISDICTION.
- DOOR STOPS AND BUMPERS TO BE INSTALLED BEHIND ALL DOORS.
- ALL HARDWARE TO BE US28D BRUSHED CHROME, CLEAR ANODIZED FINISH.
- UNDERCUT RESTROOM & OFFICE DOORS.
- U.N.O. ALL PAINTED DOORS & DOOR JAMBS TO BE PAINTED P-1.

GENERAL NOTES

- G.C. TO PROVIDE BLOCKING FOR SUPPORT OF RESTROOM AND CASEWORK ACCESSORIES AS RECOMMENDED BY MANUFACTURER. SEE ENLARGED RESTROOM AND CASEWORK ELEVATIONS.
- OCCUPANCY LOAD SIGN SUPPLIED AND INSTALLED BY G.C.
- G.C. SHALL SUPPLY AND INSTALL RECESSED FIRE EXTINGUISHERS AS REQUIRED BY LOCAL CODES. LOCATION PER LOCAL CODES. COORDINATE PLACEMENT WITH TENANT AND FIRE MARSHAL.
- REFERENCE THE FOLLOWING SHEETS: 5001 GENERAL NOTES, ABBREVIATIONS AND SYMBOLS; G100 ACCESSIBILITY PLANS.
- ALL DIMENSIONS NOTED ARE FROM FACE OF STUD, UNO.
- ELECTRICAL EQUIPMENT BY G.C. SEE ELECTRICAL DRAWINGS.
- PLUMBING EQUIPMENT BY G.C. SEE PLUMBING DRAWINGS.
- ALL CONSTRUCTION MUST BE PERFORMED WITHOUT ANY PENETRATION OF STOREFRONT IN ANY WAY, INCLUDING, BUT NOT LIMITED TO SCREWS, BOLTS AND DRILLING.
- SOUND BATT INSULATION TO BE MINIMUM CLASS 2 WITH FLAME SPREAD RATING OF 25 TO 75.

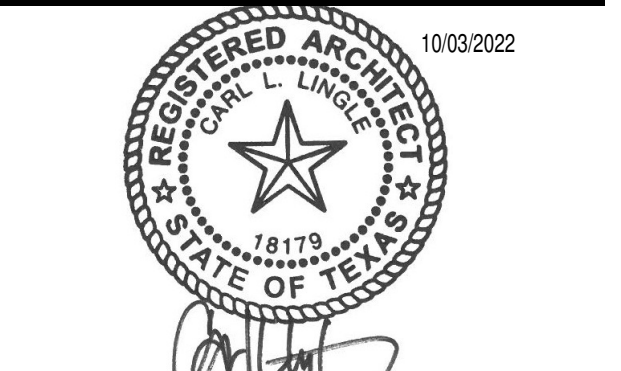
WALL TYPES - SEE SHEET A111
 STOREFRONT TAG - SEE SHEET A201
 DOOR TAG - SEE SHEET A110
 INDICATES GLAZING

CONSTRUCTION PLAN CODED NOTES

- NO GYP. BD. NEEDED INSIDE VOID SPACE
- WOOD BLOCKING FOR DESK SHELVING - SEE DETAIL B4/A111 - NO UPPER SHELF ALONG STOREFRONT

LINGLEDISIGNGROUP, INC.
 158 WEST MAIN STREET
 LENA, IL 61048
 815.369.9155
 1764 BLAKE ST
 DENVER, CO 80202
 303.974.5875
 WWW.LINGLEDISIGN.COM

ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE LINGLEDISIGN GROUP, INC. THEY MAY NOT BE REPRODUCED, COPIED, REPRODUCED OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.



PROJECT #:
 DRAWN BY: BA
 CHECKED BY: MP

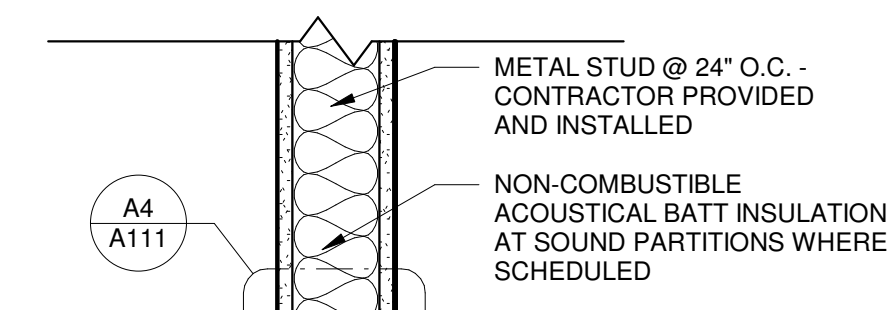
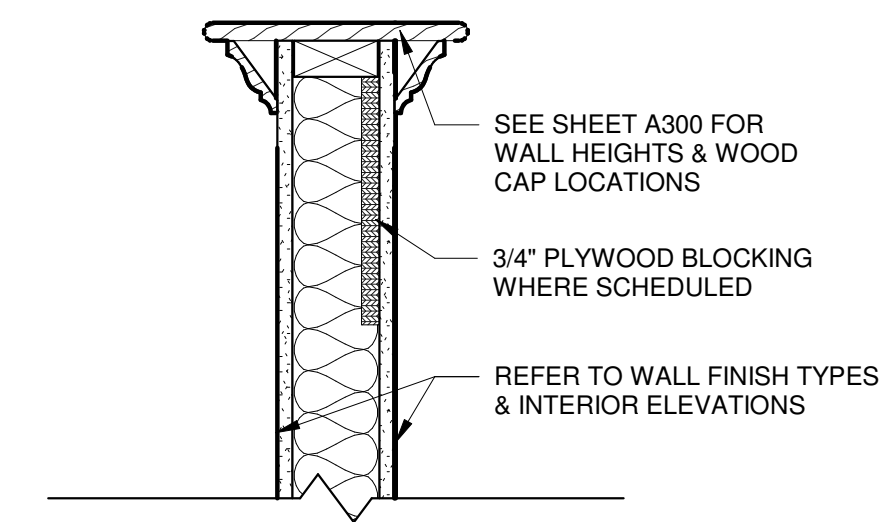
PERMIT SET - 08/12/2022
 PERMIT COMMENTS - 10/03/2022

STORE #:
 XXXX
 ADDRESS:
 LOT 3, BLOCK "A"
 HIGHWAY 973
 MANOR, TX 78653

SHEET TITLE:
Construction Plan

SHEET NUMBER:
A110

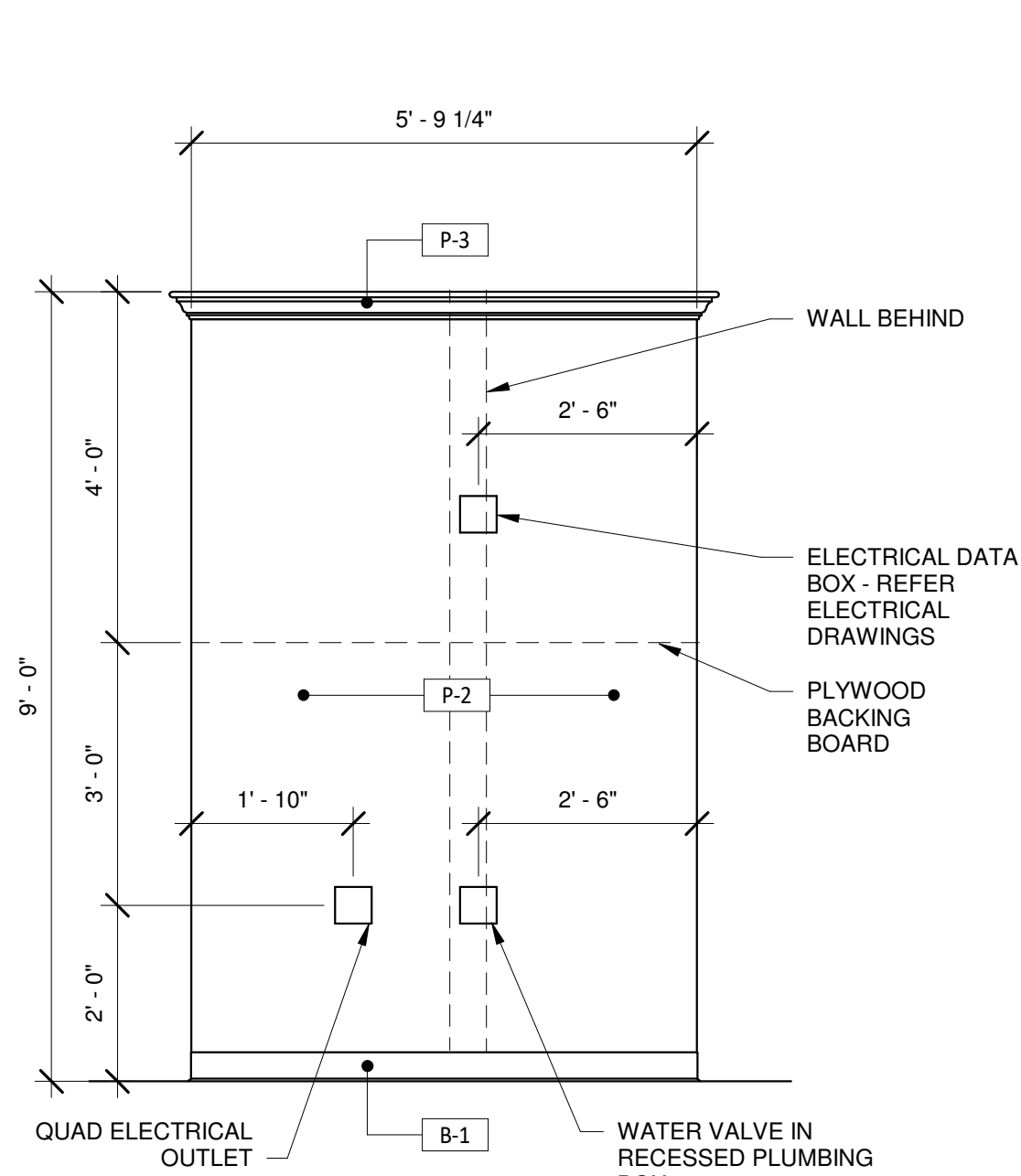
Construction Plan
 1/4" = 1'-0"



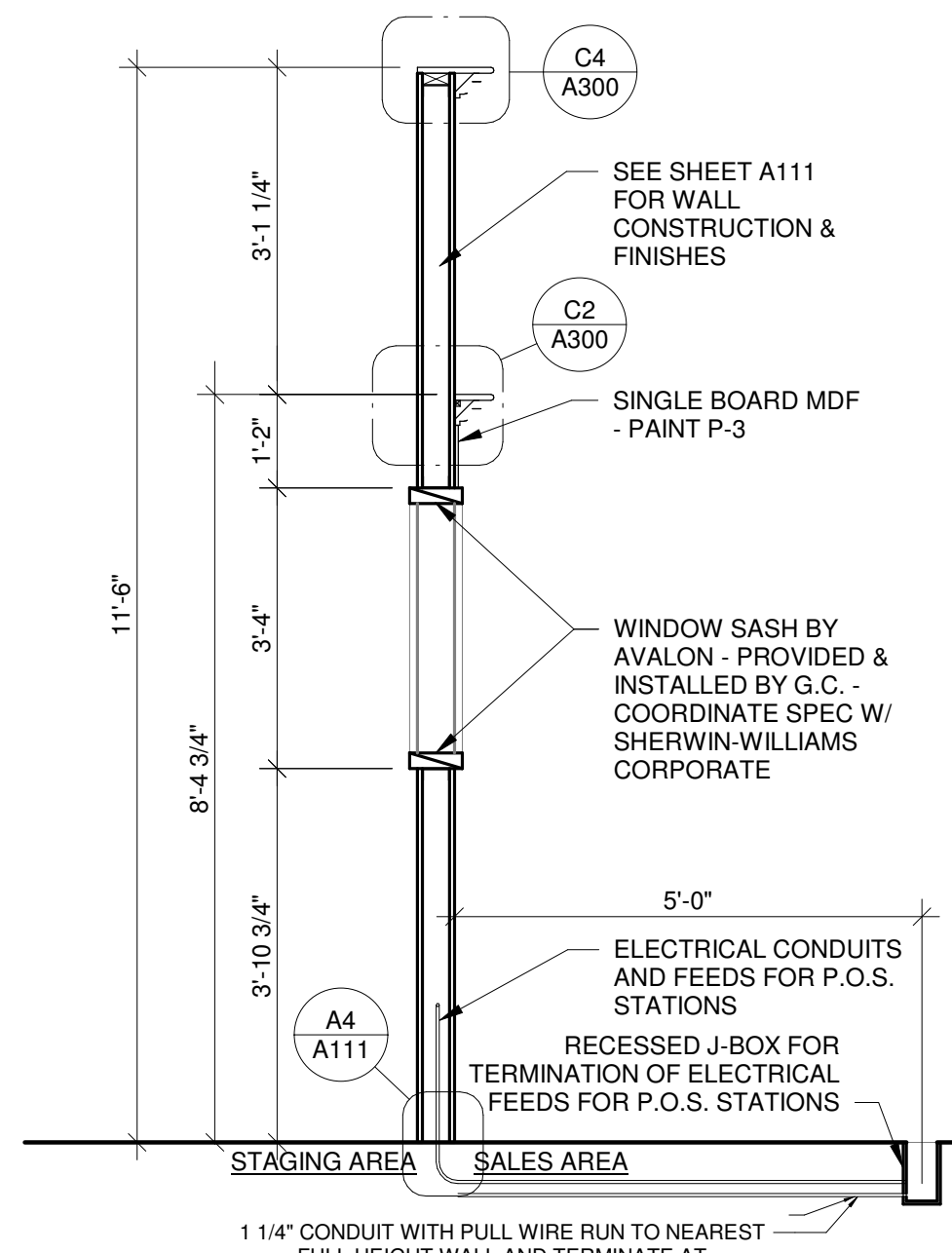
WALL TYPE "A"

- A1 3 5/8" METAL STUD
- A2 3 5/8" METAL STUD W/ BATT INSULATION
- A3 6" METAL STUD
- A4 6" METAL STUD W/ BATT INSULATION
- A5 3 5/8" METAL STUD W/ PLYWOOD BLOCKING

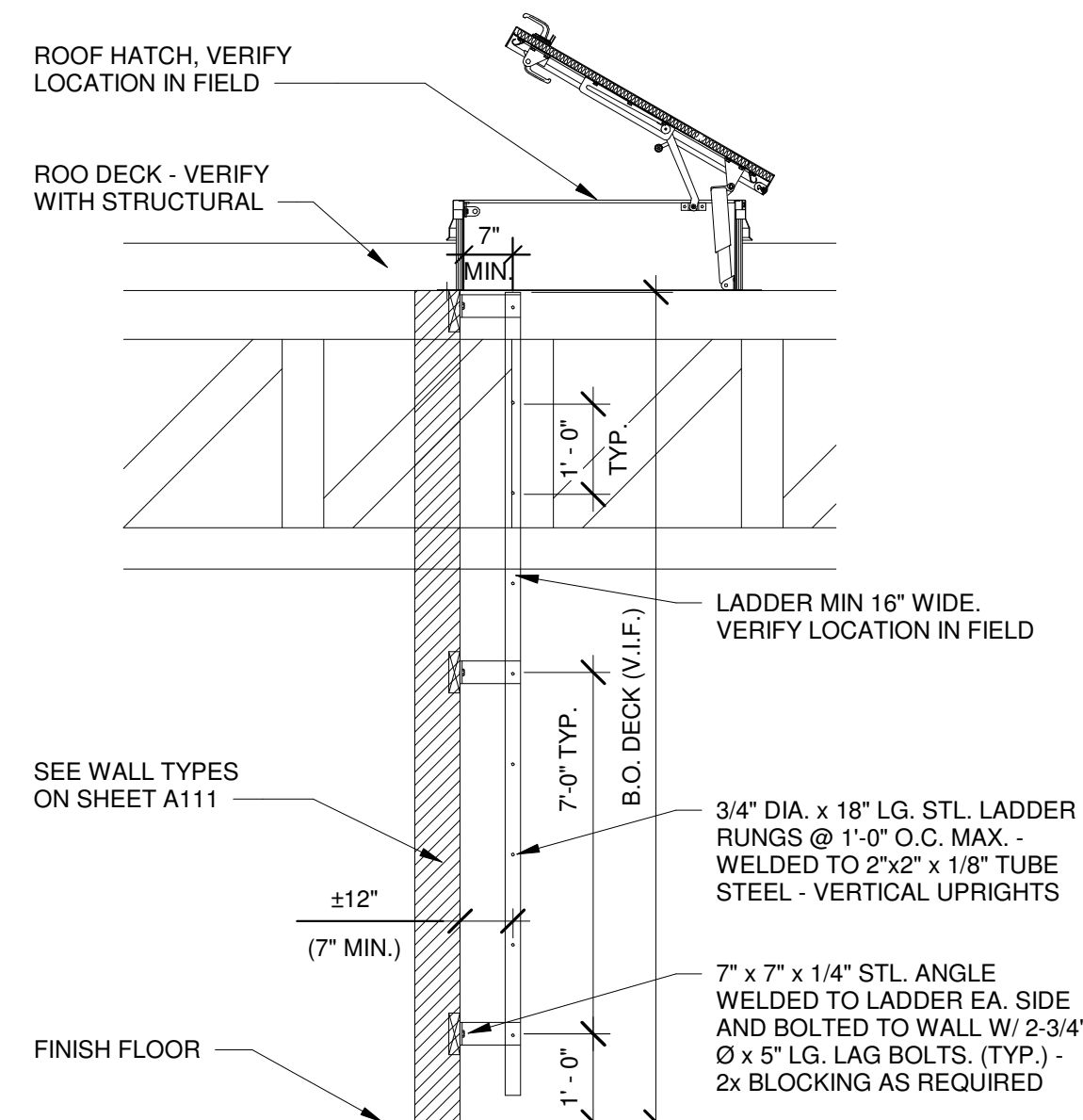
WALL TYPE "A"
1 1/2" = 1'-0"



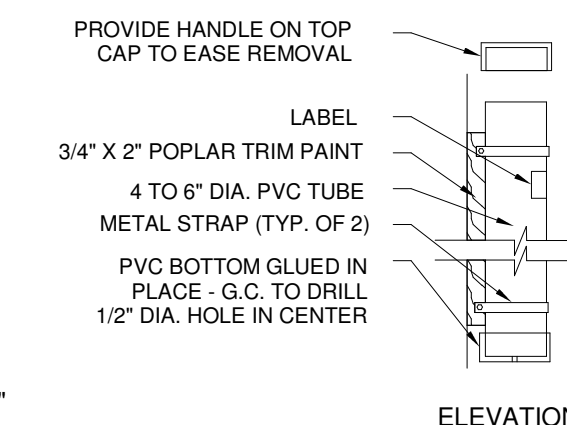
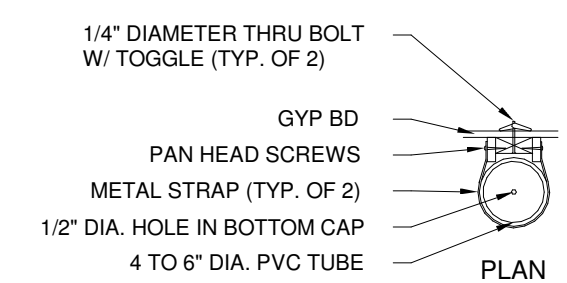
T" WALL DETAIL
1/2" = 1'-0"



SECTION AT ACCENT WALL
1/2" = 1'-0"

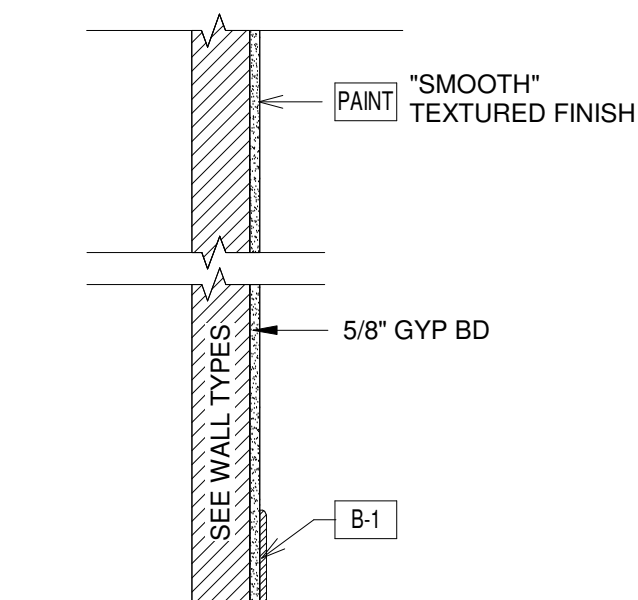


SECTION AT ROOF LADDER, TYP.
N.T.S.

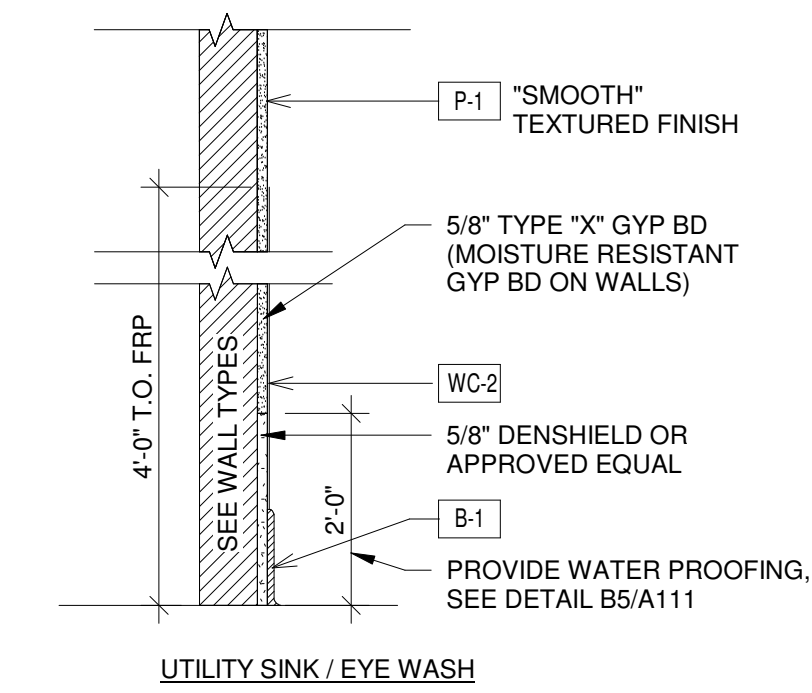


PLANS STORAGE, TYP.
N.T.S.

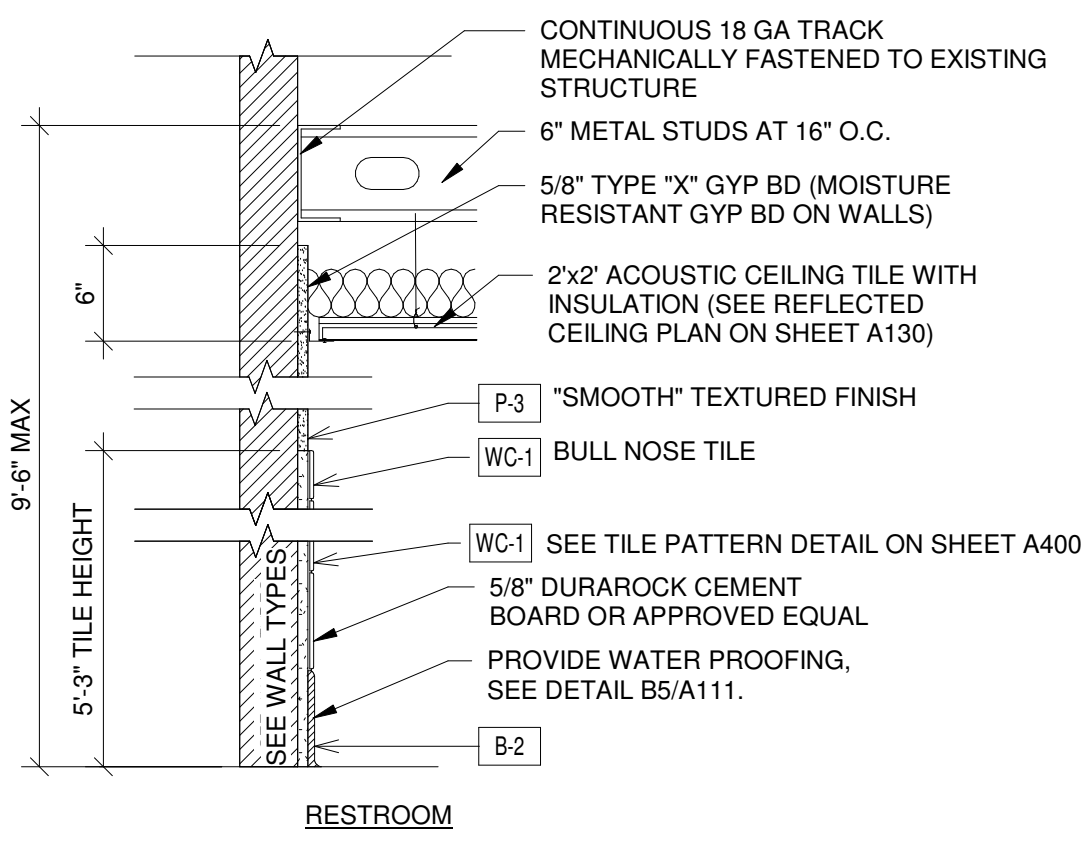
NOTE: UPON COMPLETION OF THE PROJECT, GENERAL CONTRACTOR MUST RUN A NEW BLUEPRINT SET FOR THE COMPLETED STORE DRAWINGS (ARCHITECTURAL, MECHANICAL, AND ELECTRICAL) AND PLACE BLUEPRINTS INTO THE PLAN TUBE HOLDER, LABEL (WITH CLEAR TAPE) STATING THIS TUBE CONTAINS STORE DRAWINGS AND IS NOT TO BE REMOVED WITHOUT THE CONSENT OF THE STORE MANAGER. TENANT G.C. TO SUPPLY AND INSTALL DRAWING TUBE ASSEMBLY ABOVE DOOR OR OTHER APPROVED LOCATION TO BE DETERMINED.



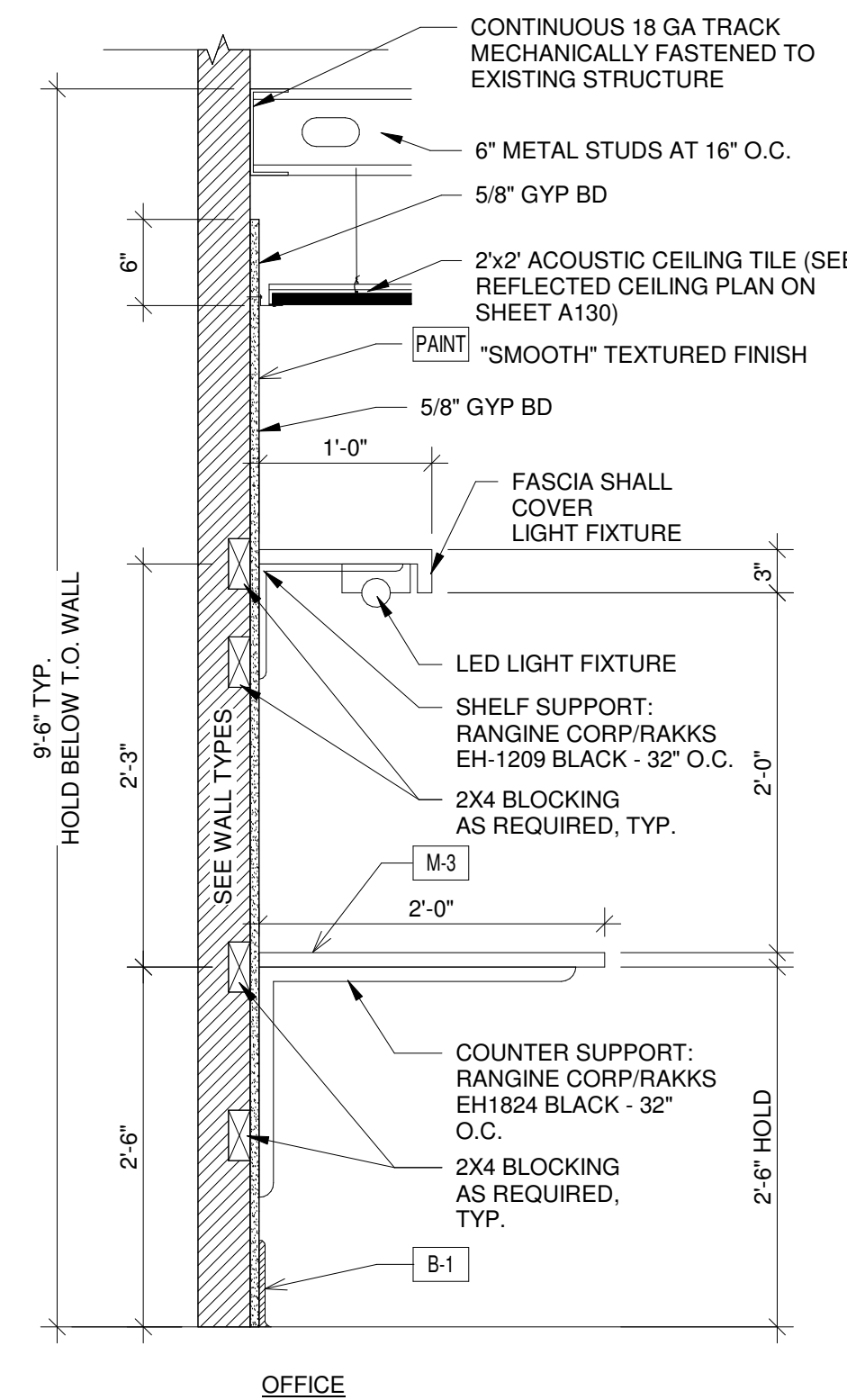
WALL FINISH 1 (SALES & WHOLESALE)
1" = 1'-0"



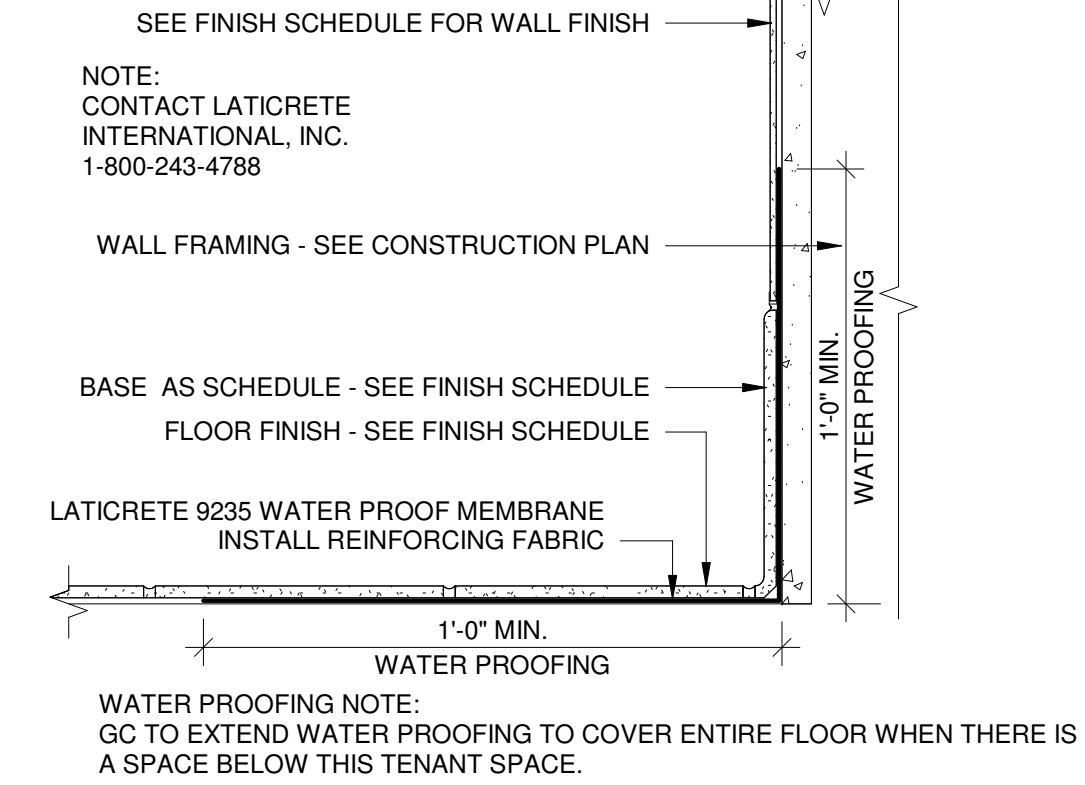
WALL FINISH 2 (UTILITY SINK)
1" = 1'-0"



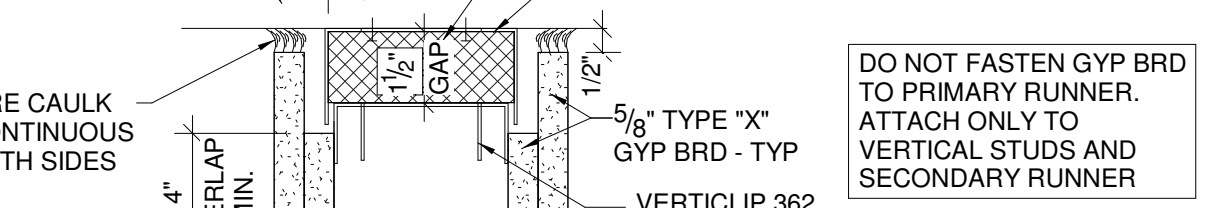
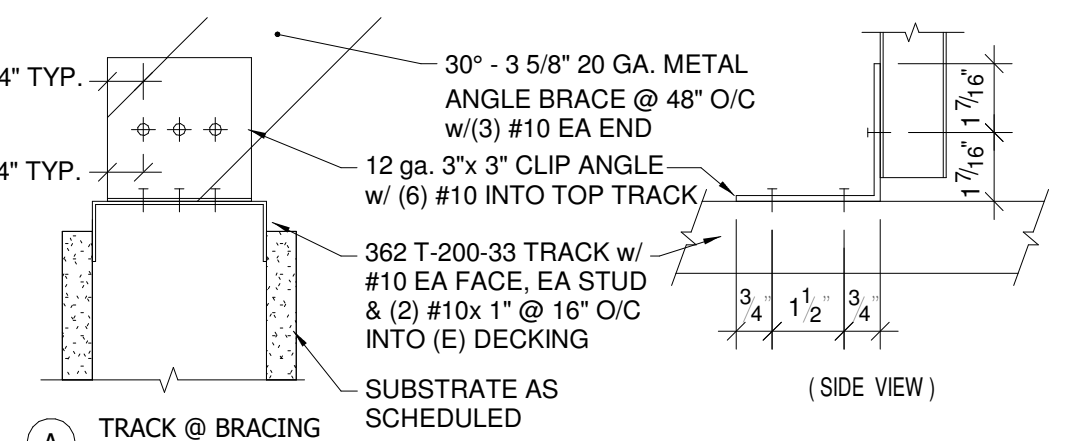
WALL FINISH 3 (RESTROOM)
1" = 1'-0"



WALL FINISH 4 (OFFICE)
1" = 1'-0"



TYPICAL WATERPROOFING DETAIL
3" = 1'-0"



HEAD TRACK DETAILS
3" = 1'-0"

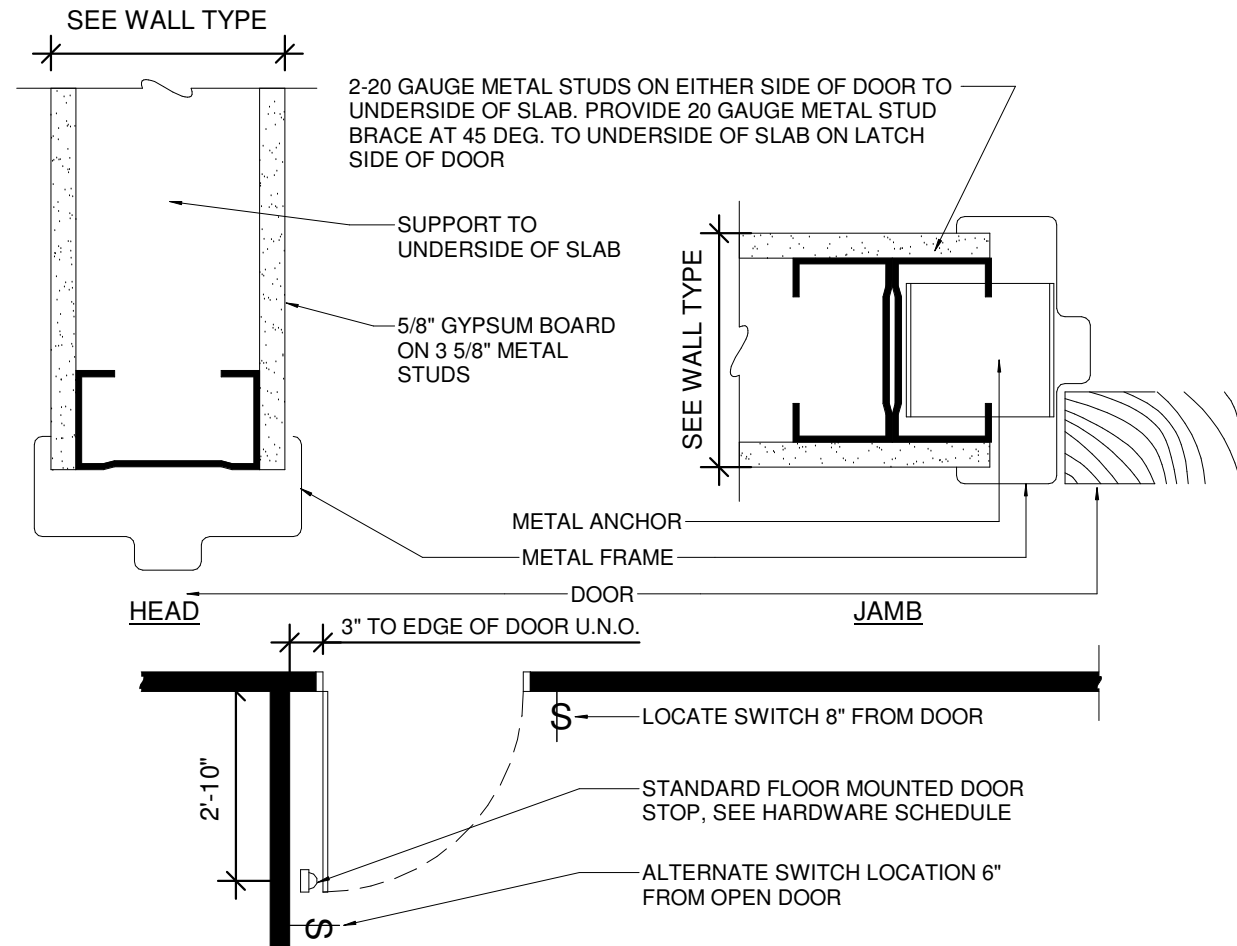
TYPICAL INTERIOR NON-LOAD BEARING STUD WALL - SLIP TRACK AT TOP

STUDS TO BE USED (ICC-ES ESR-3016)

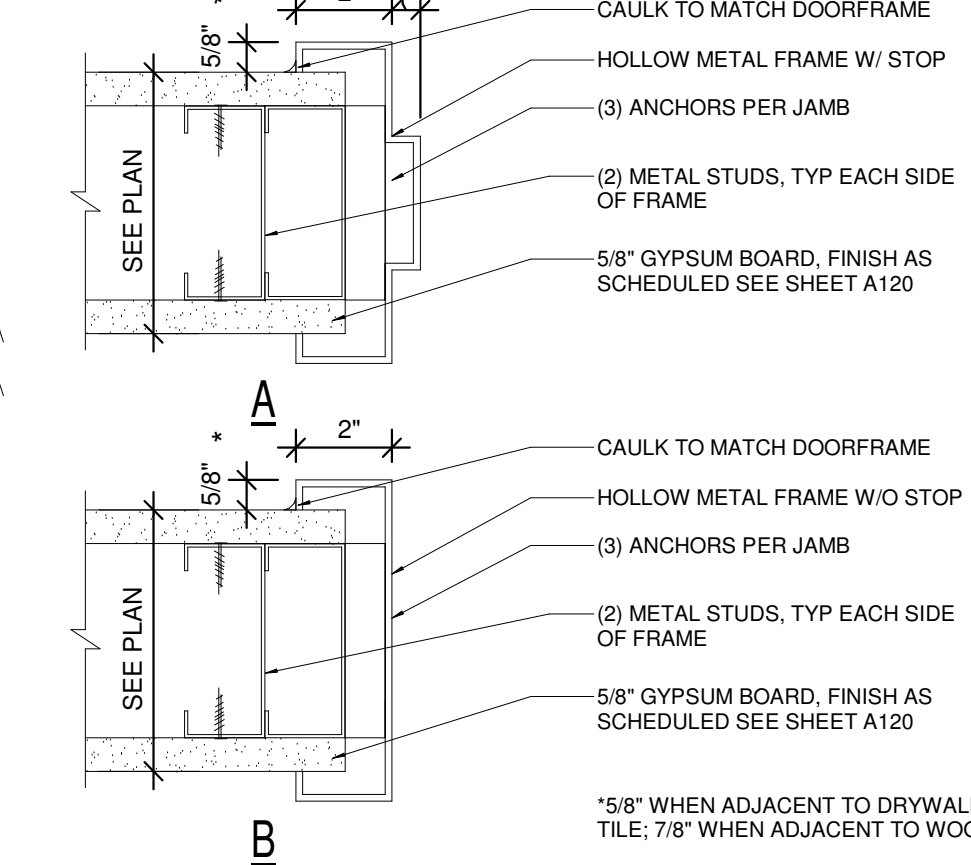
SIZE	SPACING	ALLOWABLE HEIGHT	BOTTOM TRACK GAUGE	TOP - "SLIP" TRACK GAGE 3" DEEP TRACK
3 5/8" - 25G STR	16"	15.4'	20	18
3 5/8" - 20G STR	16"	17.0'	20	18
3 5/8" - 18 G HDS	16"	22.6'	20	18
6" - 20G STR	16"	24.5'	20	18
6" - 18G HDS	16"	33.6'	20	18

NOTES:

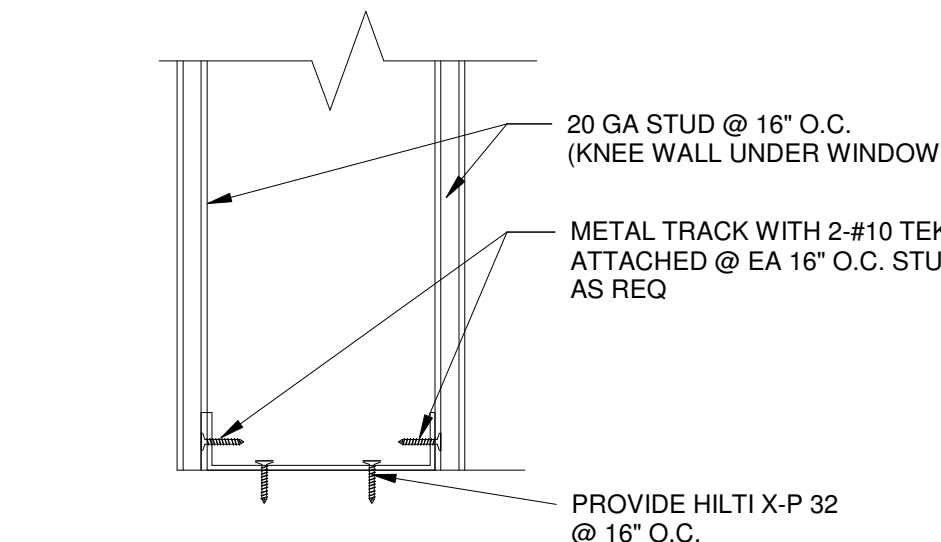
- BUILDING CODE REQUIRES THAT INTERIOR PARTITION WALLS BE DESIGNED FOR A LATERAL LOAD OF 5 PSL. THE FOLLOWING GUIDELINES ARE BASED ON THIS LOAD. ALL STUDS GIVEN ARE ASSUMED TO BE EQUIVALENT TO THOSE MANUFACTURED BY DIETRICH INDUSTRIES, INC. ALL STUDS AND TRACKS ARE ASSUMED TO HAVE AN FY = 33.0 KSI. ALL STUDS ARE ASSUMED TO HAVE 3" GYP BD ON BOTH FACES FOR THE FULL HEIGHT OR ARE PROVIDED WITH BRIDGING AS REQUIRED. DETAILS ARE PROVIDED TO ACCOMMODATE VERTICAL MOVEMENT AT THE TOP USING A 3" DEEP TRACK CONNECTION OR NO MOVEMENT. MAXIMUM HORIZONTAL DEFLECTION IS ASSUMED TO BE LIMITED TO H/240. PROVIDE LATERAL BRACING PER SCHEDULE.
- BOTTOM TRACK GAGES MAY BE SUBSTITUTED FOR TOP-SLIP TRACK GAGES IF STUDS ARE PERMANENTLY ATTACHED TO BOTH FLANGES OF THE TRACK WITH #10 SCREWS.
- ATTACH BOTTOM TRACK TO SLAB WITH HILTI X-DNI 32 P8S15 @ 3'-0" O.C.
- IF GYP BD IS ON ONE SIDE ONLY, ADD HORIZONTAL BRIDGING AT 5'-0" O.C. VERTICALLY.
- IF YOU HAVE A CASE THAT DIFFERS FROM THE ABOVE, PLEASE CONTACT THE ARCHITECT.



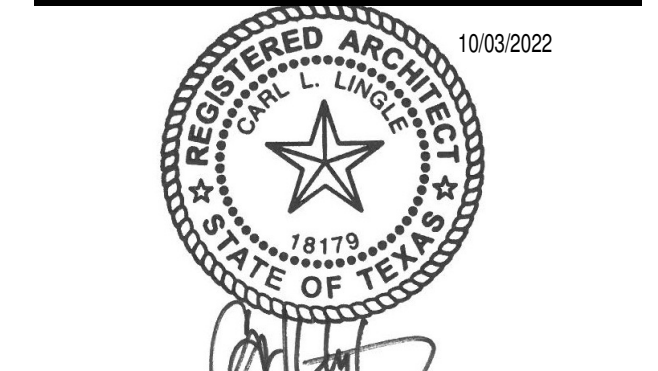
TYP. DOOR JAMB & PLACEMENT DETAIL
3" = 1'-0"



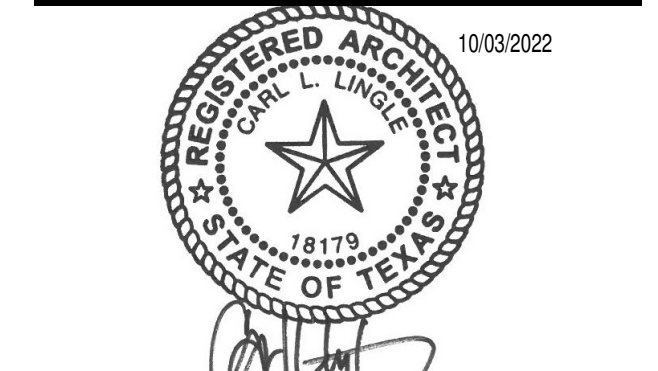
TYPICAL DOOR JAMB DETAILS
3" = 1'-0"



STUD SIZE CHART
1/4" = 1'-0"



ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE LINGLE DESIGN GROUP, INC. THEY MAY NOT BE REVISED, COPIED, REPRODUCED OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.



PROJECT #:
 DRAWN BY: BA CHECKED BY: MP

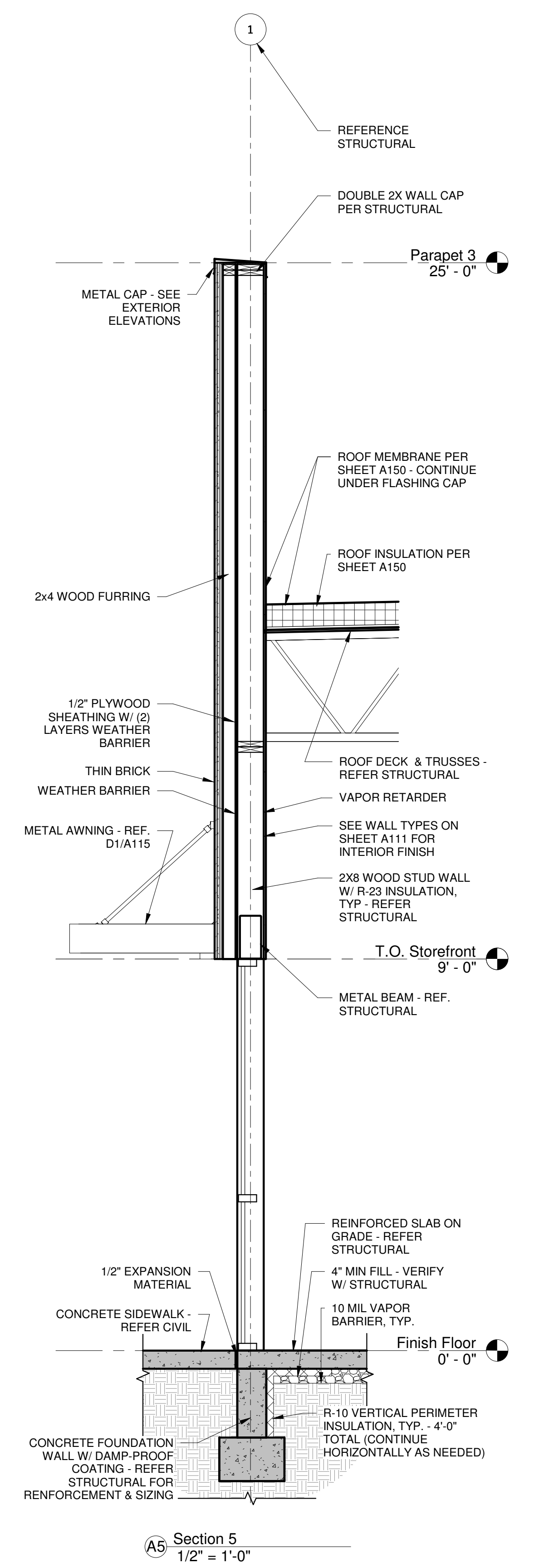
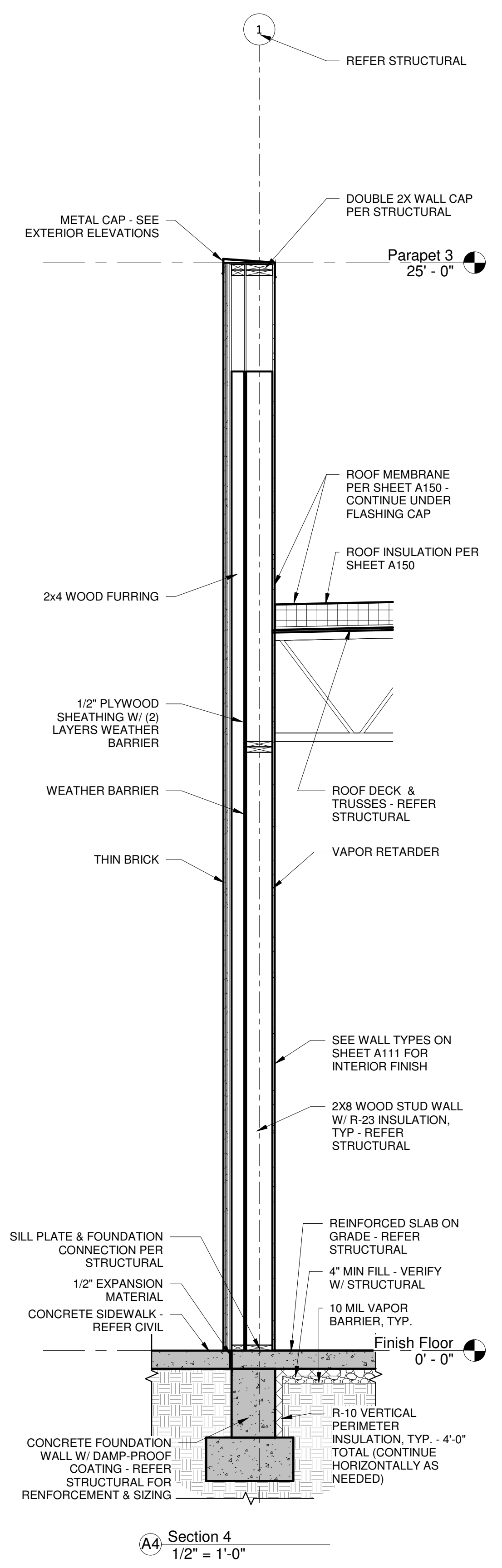
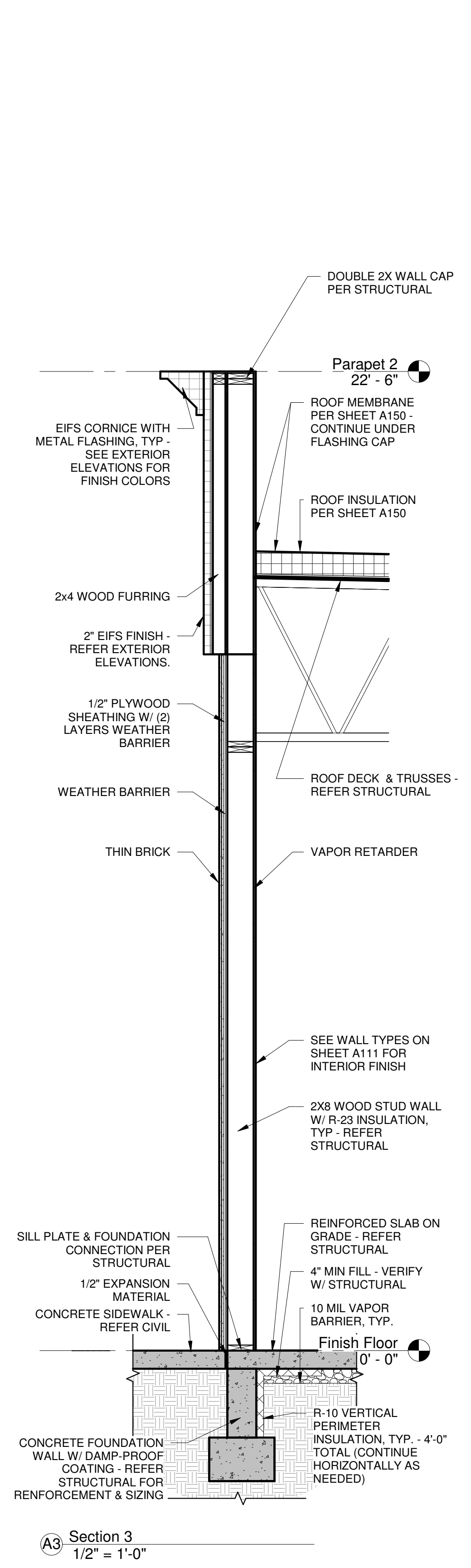
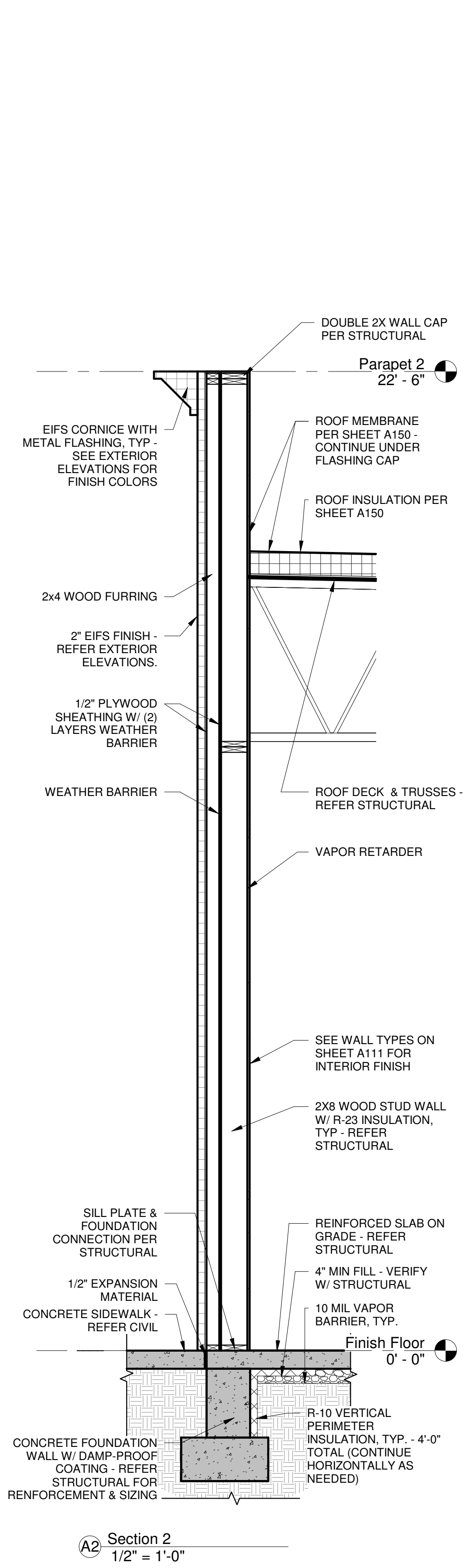
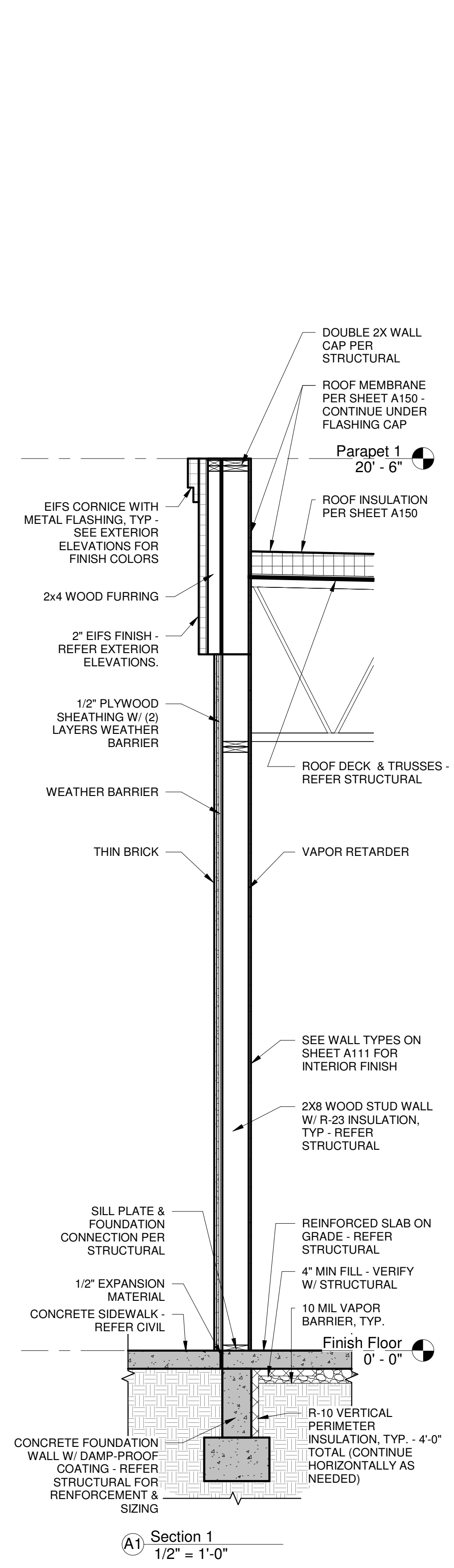
PERMIT SET - 08/12/2022
 PERMIT COMMENTS - 10/03/2022

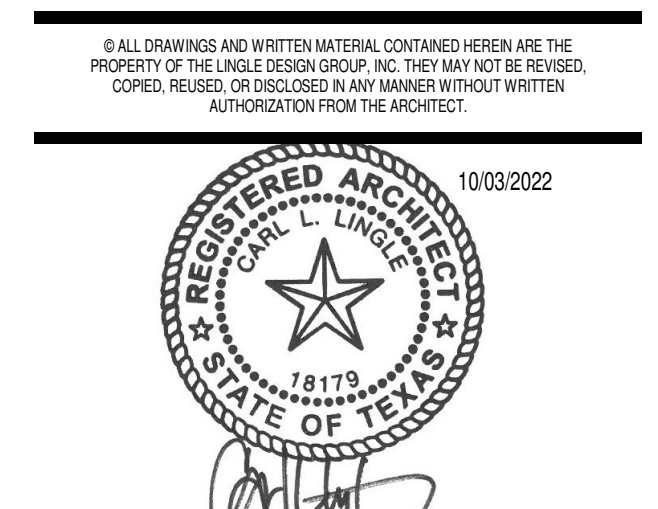
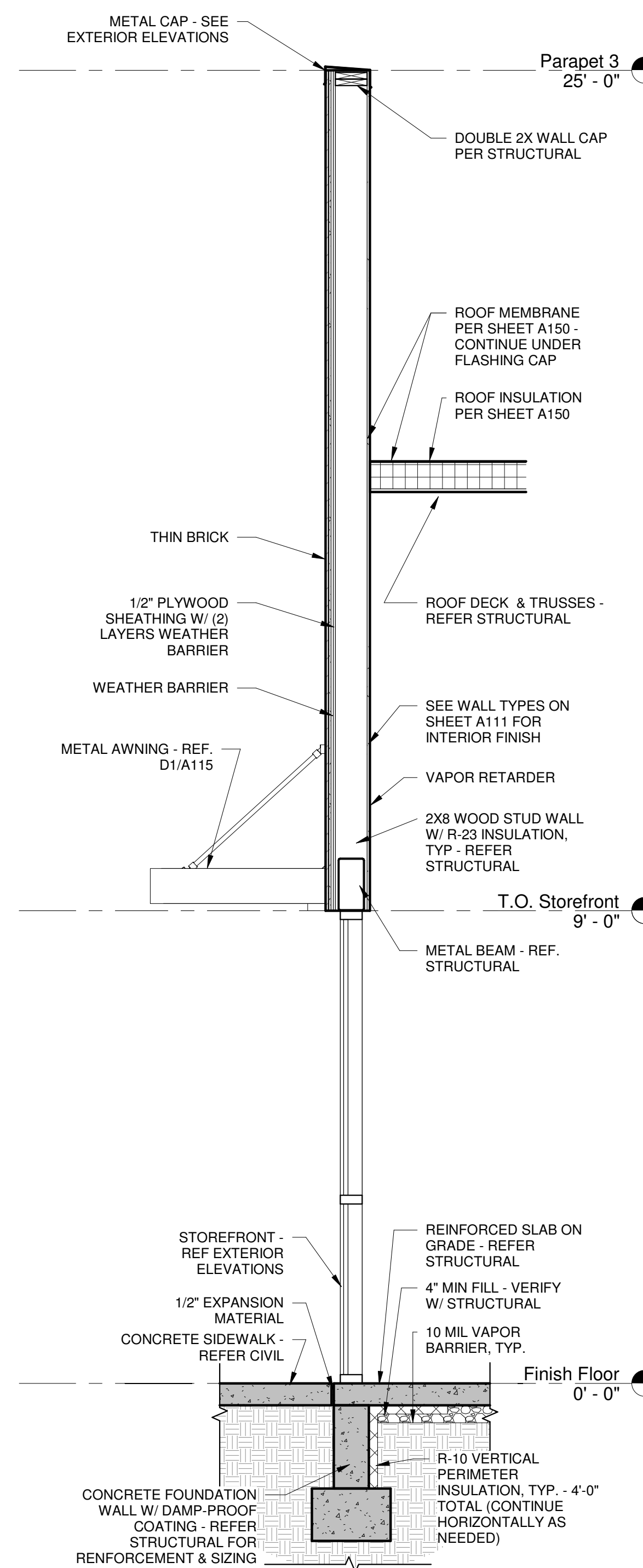
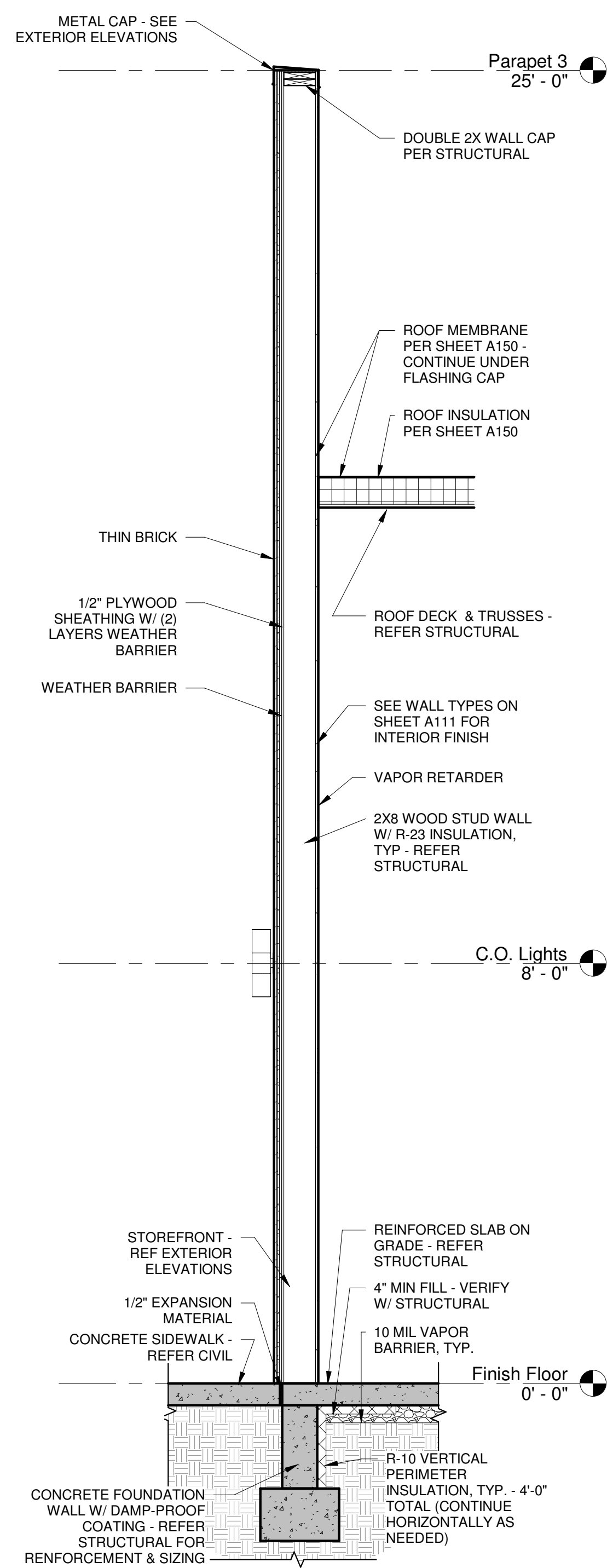
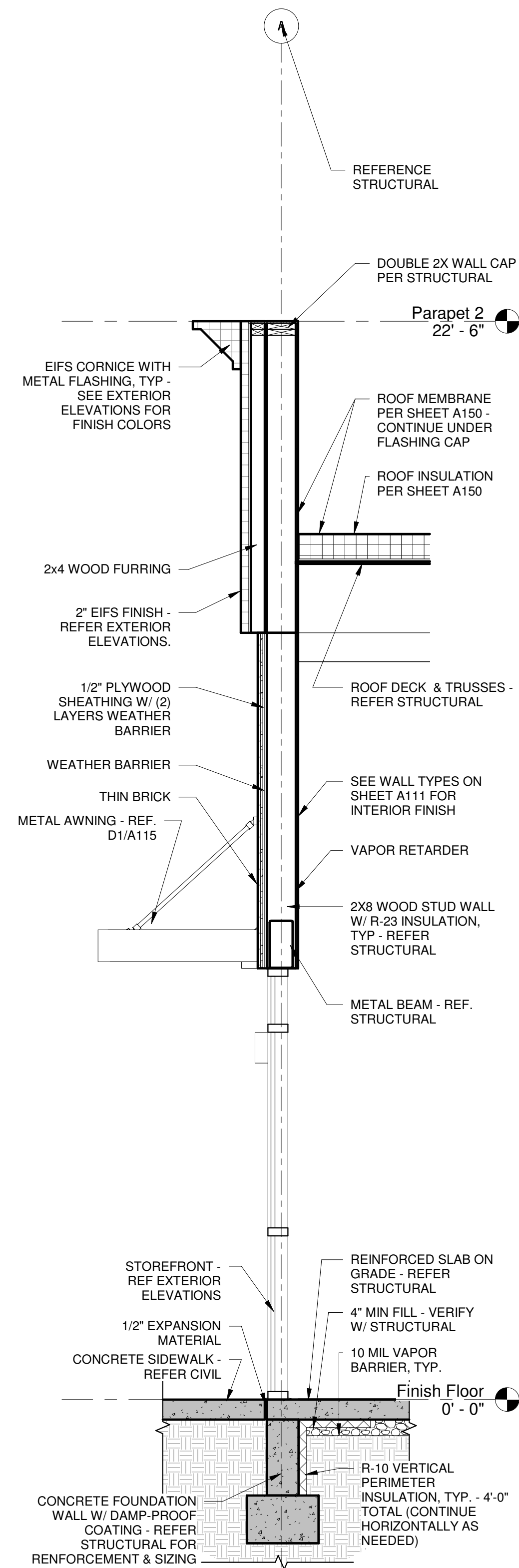
SHERWIN WILLIAMS

STORE #:
 XXXX
 ADDRESS:
 LOT 3, BLOCK "A"
 HIGHWAY 973
 MANOR, TX 78653

SHEET TITLE:
 Exterior Wall Types

SHEET NUMBER:
A112





PROJECT #:
DRAWN BY: BA CHECKED BY: MP

PERMIT SET - 08/12/2022

PERMIT COMMENTS - 10/03/2022

△	
△	
△	
△	
△	
△	

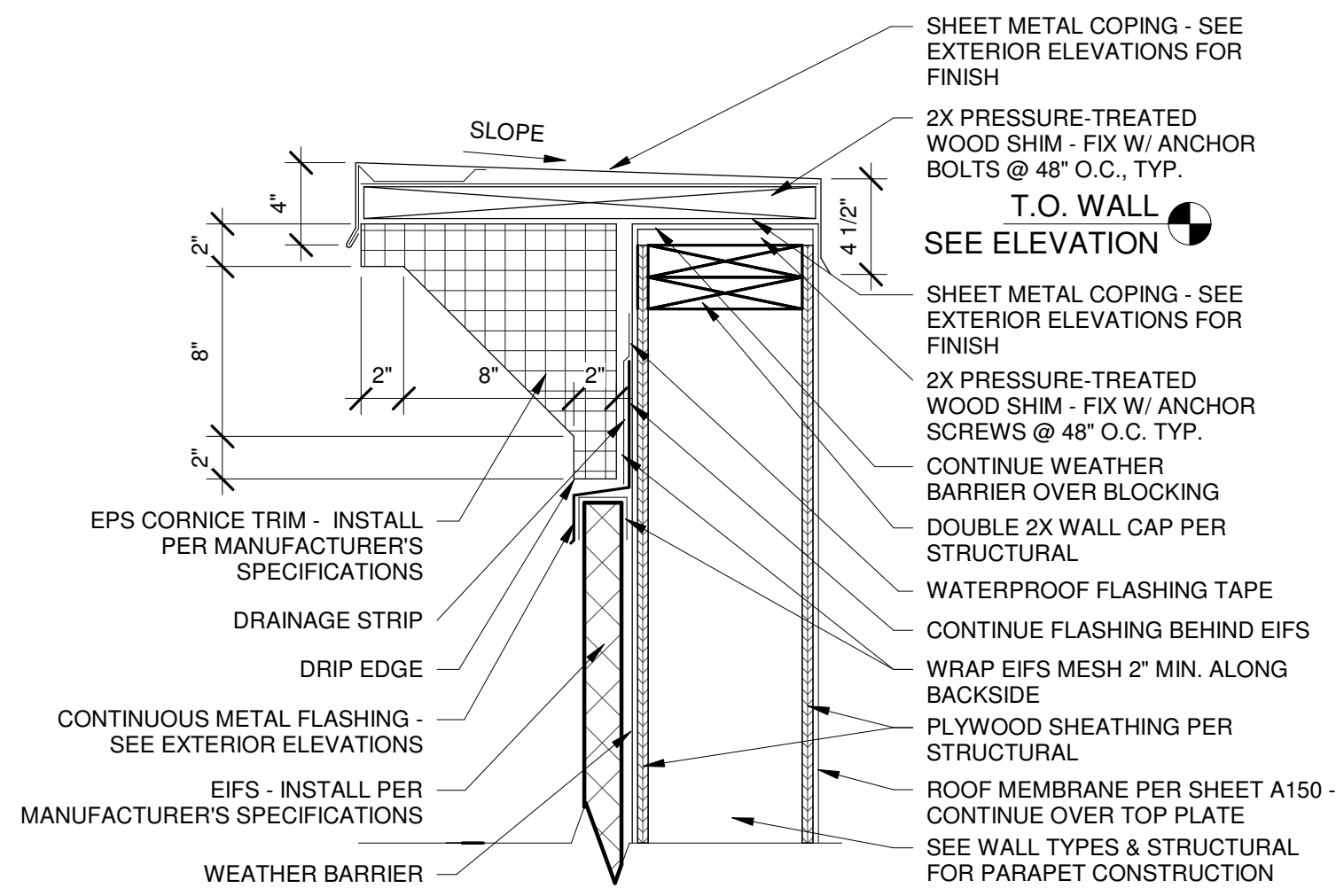
SHERWIN WILLIAMS

STORE #:
XXXX

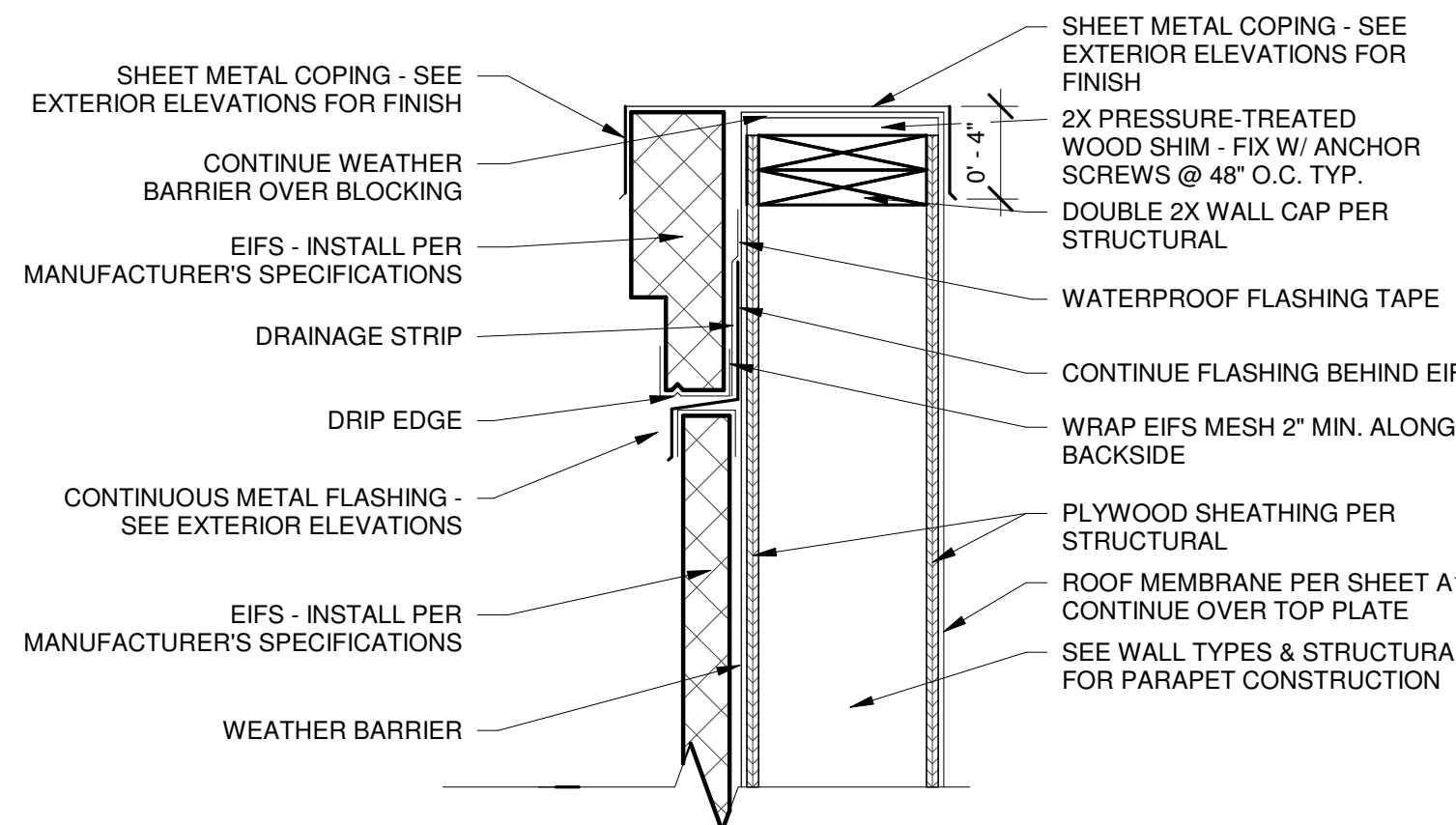
ADDRESS:
LOT 3, BLOCK "A"
HIGHWAY 973
MANOR, TX 78653

Exterior Wall Types

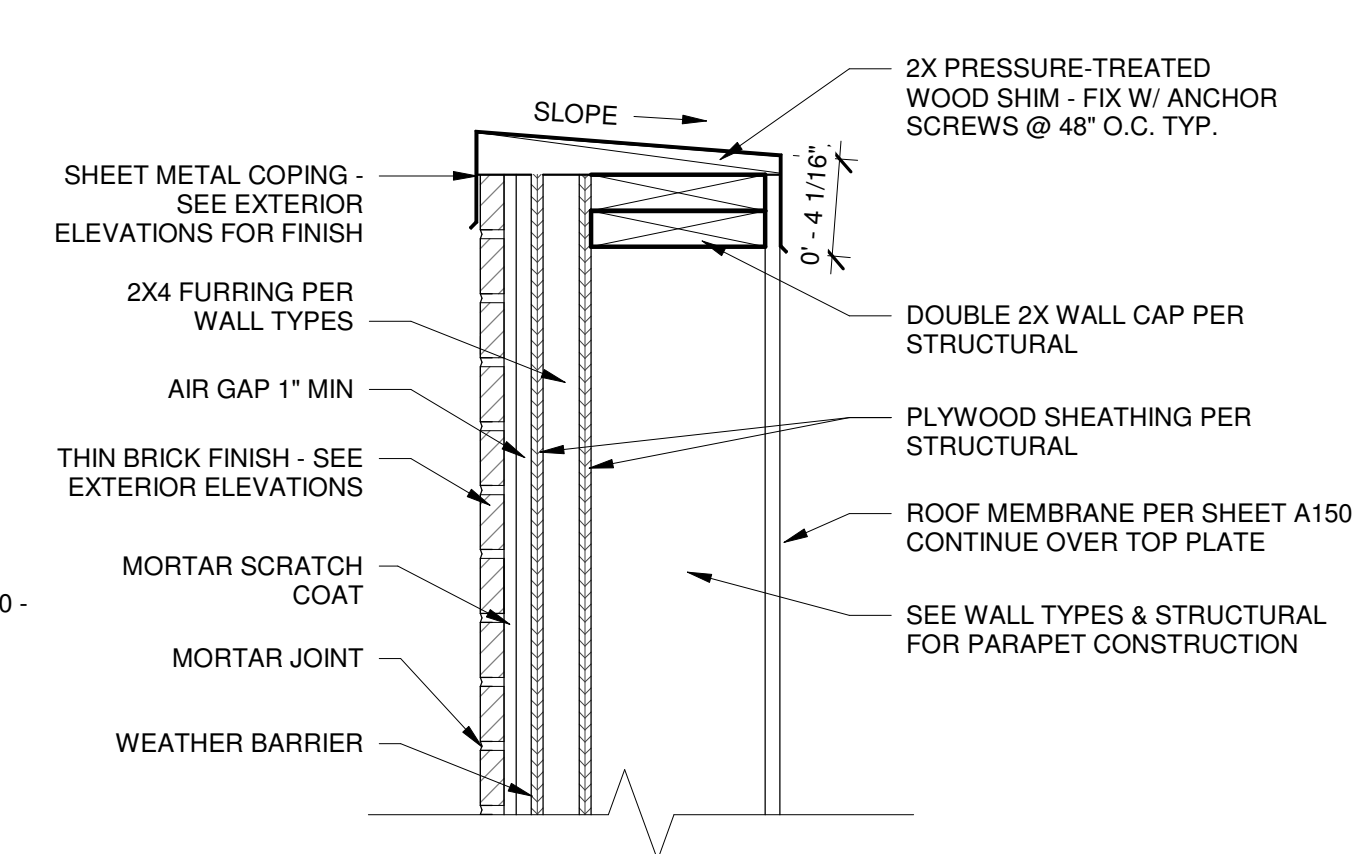
SHEET NUMBER:
A113



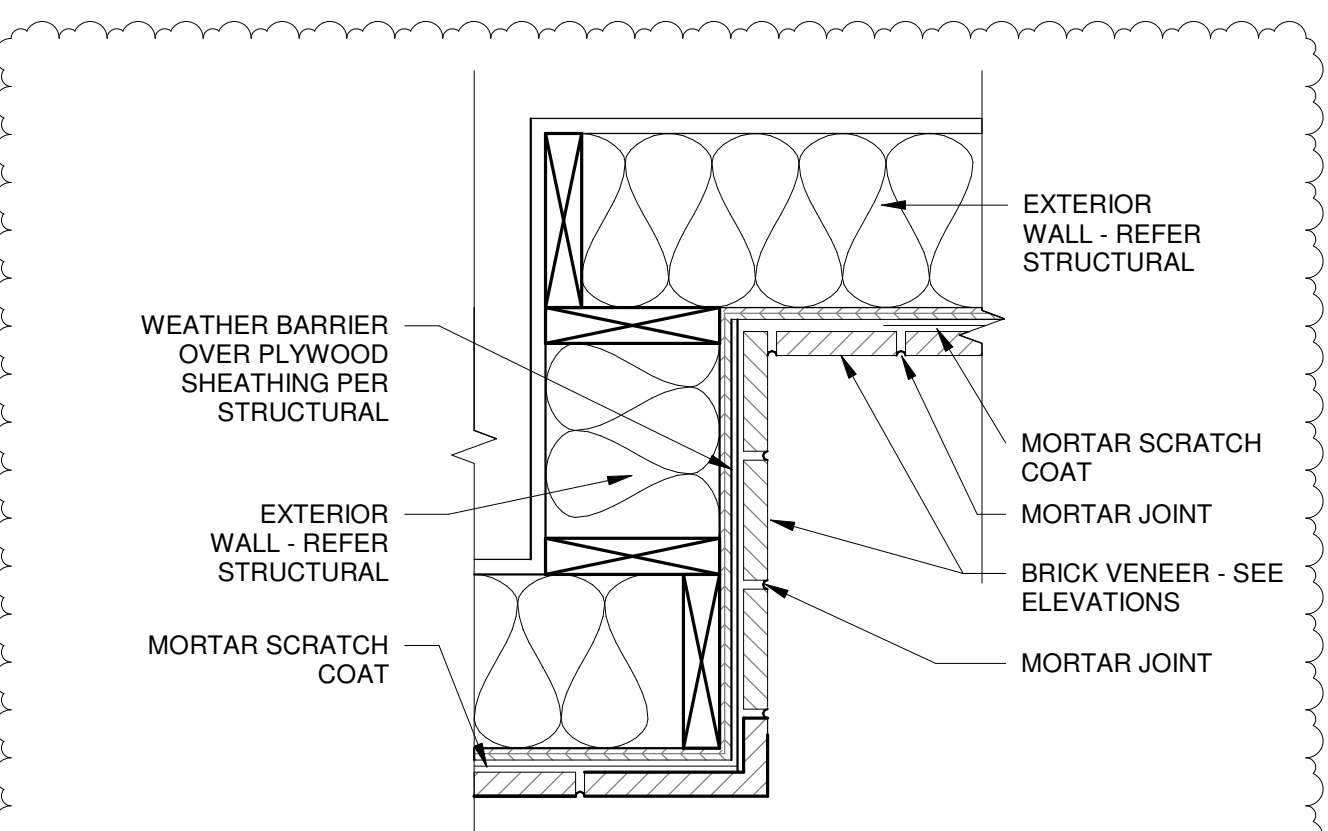
D1 SECTION AT EPS PARAPET
1 1/2" = 1'-0"



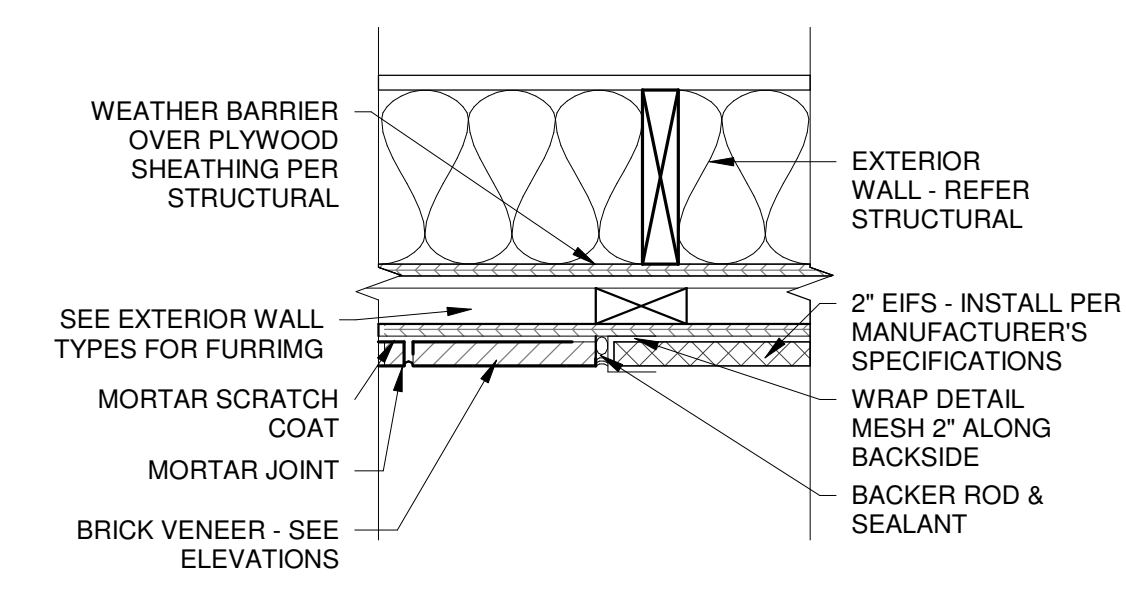
D2 SECTION AT EIFS PARAPET
1 1/2" = 1'-0"



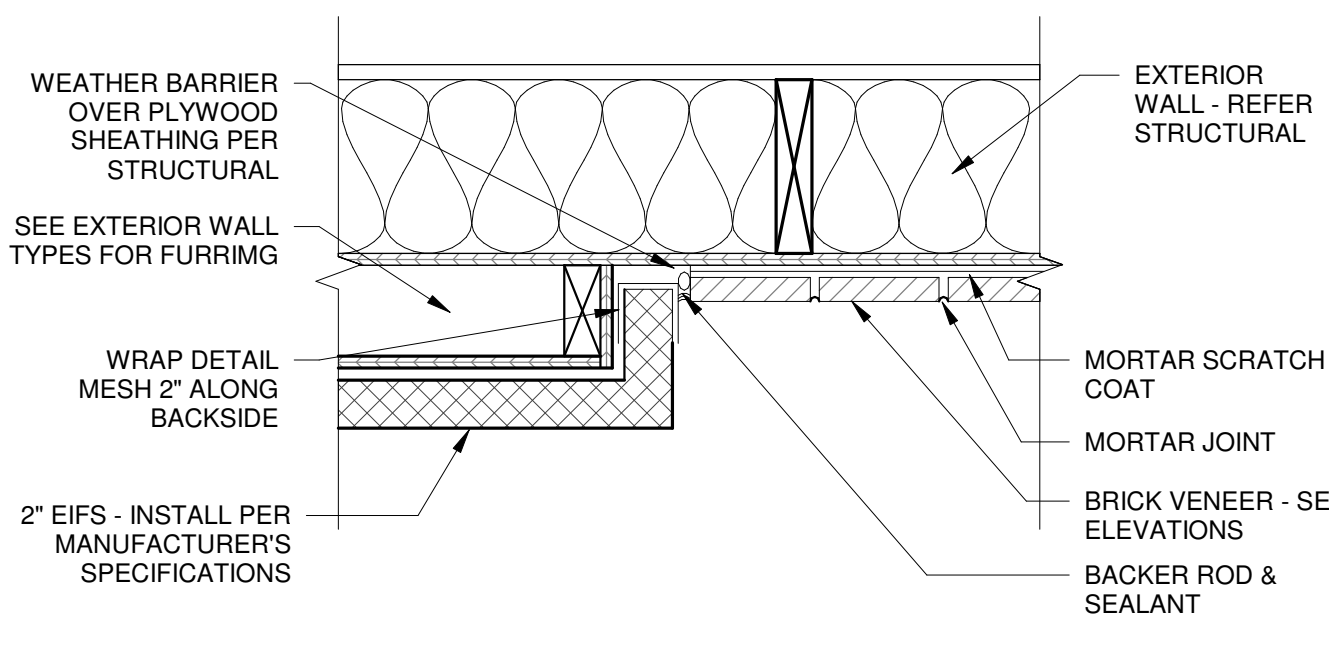
D3 SECTION AT BRICK PARAPET
1 1/2" = 1'-0"



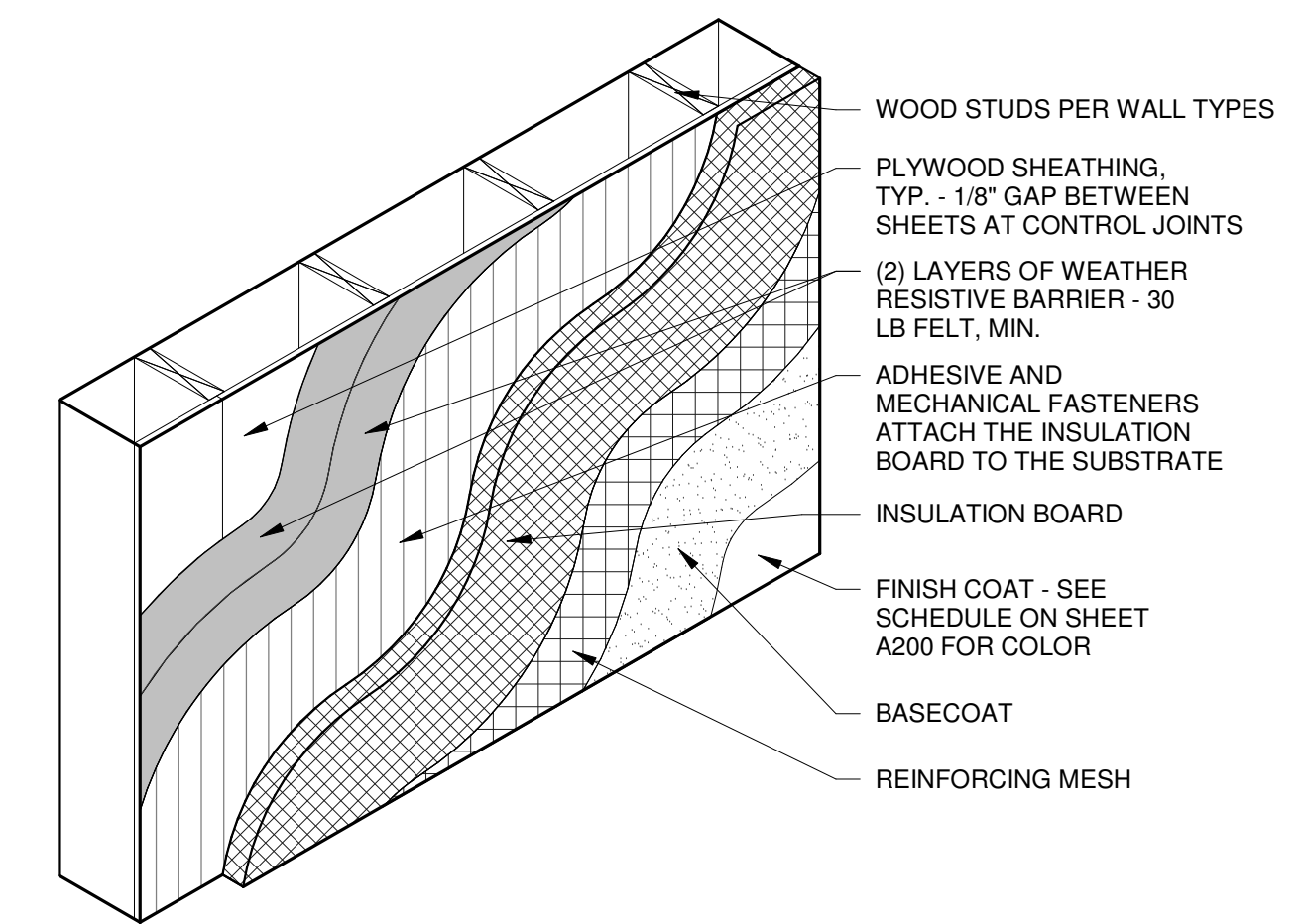
C1 VERTICAL TRANSITION AT THIN BRICK & BRICK PILASTER
1 1/2" = 1'-0"



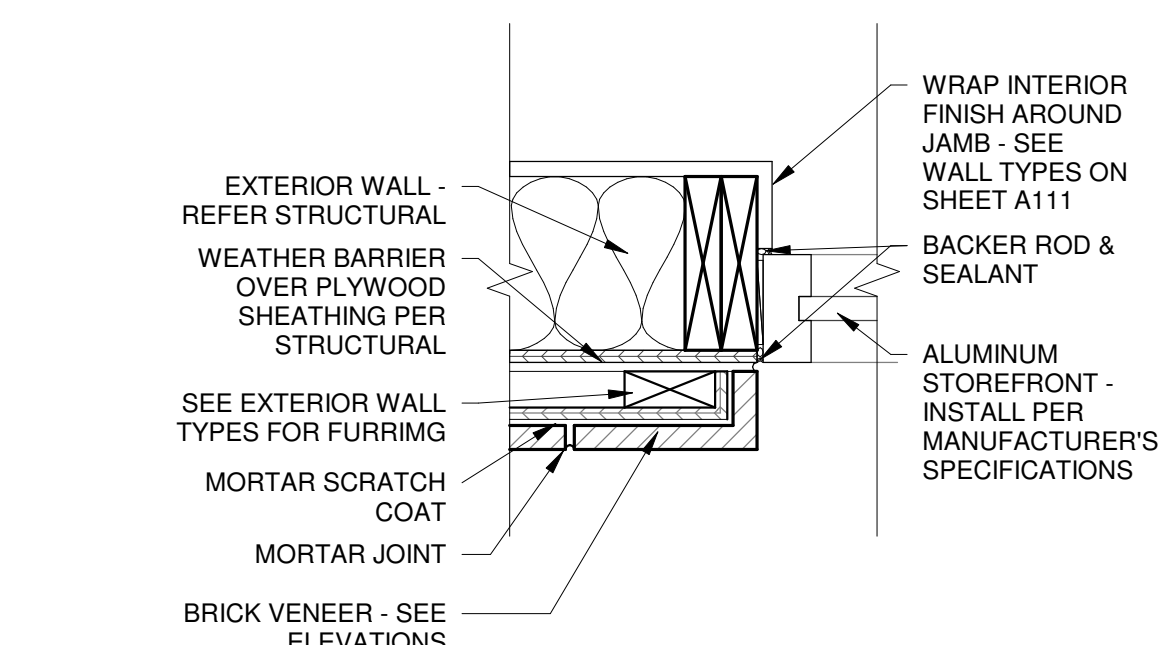
C2 VERTICAL TRANSITION AT THIN BRICK & EIFS
1 1/2" = 1'-0"



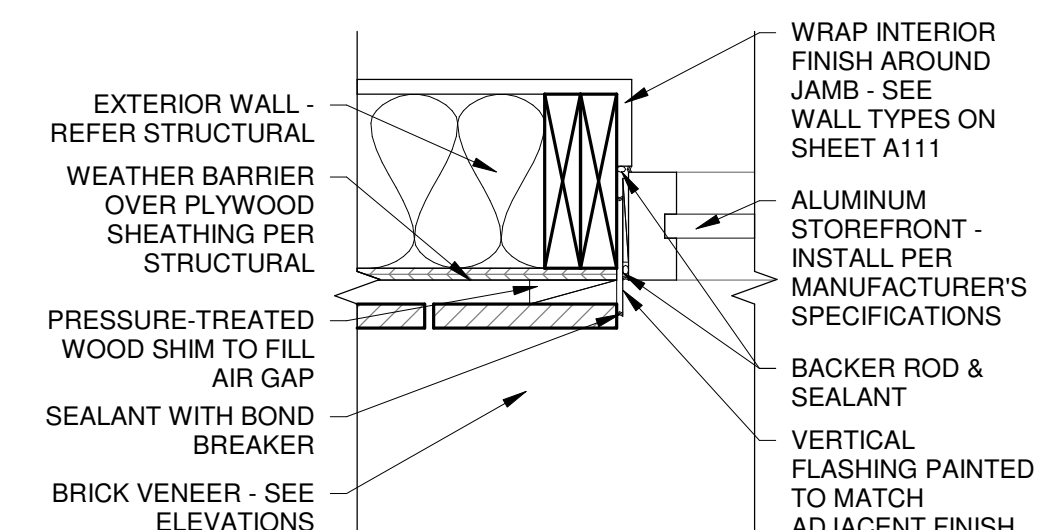
C3 VERTICAL TRANSITION AT EIFS & BRICK ON PILASTER
1 1/2" = 1'-0"



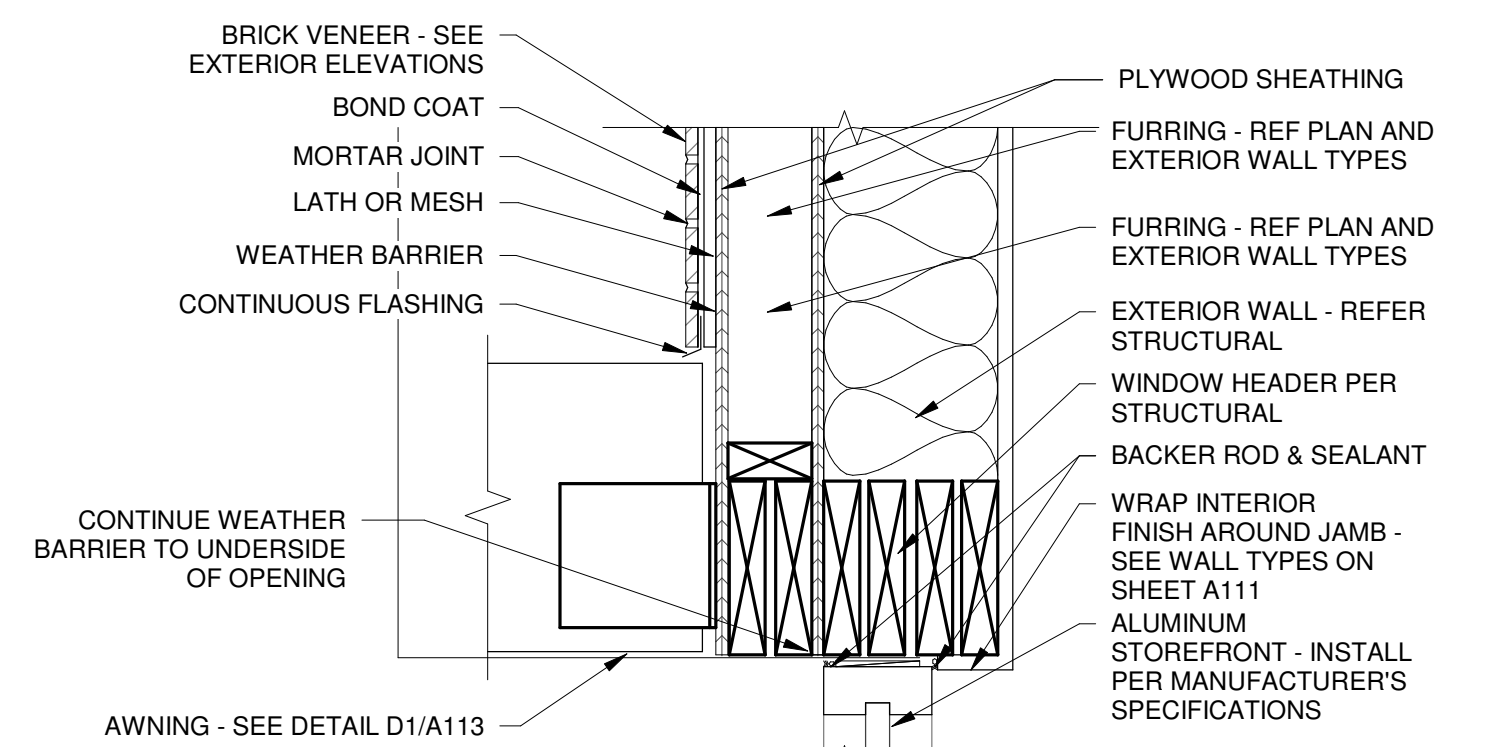
C4 EIFS FINISH AT WOOD SHEATHING
3/4" = 1'-0"



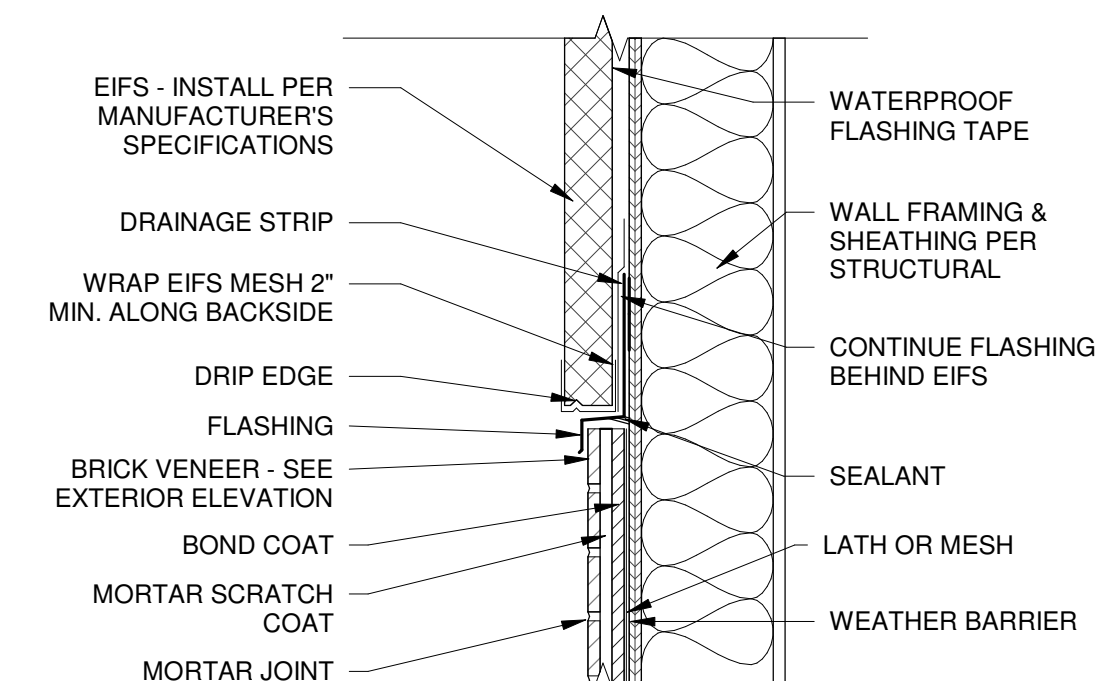
B1 VERTICAL TRANSITION AT THIN BRICK PILASTER AND STOREFRONT
1 1/2" = 1'-0"



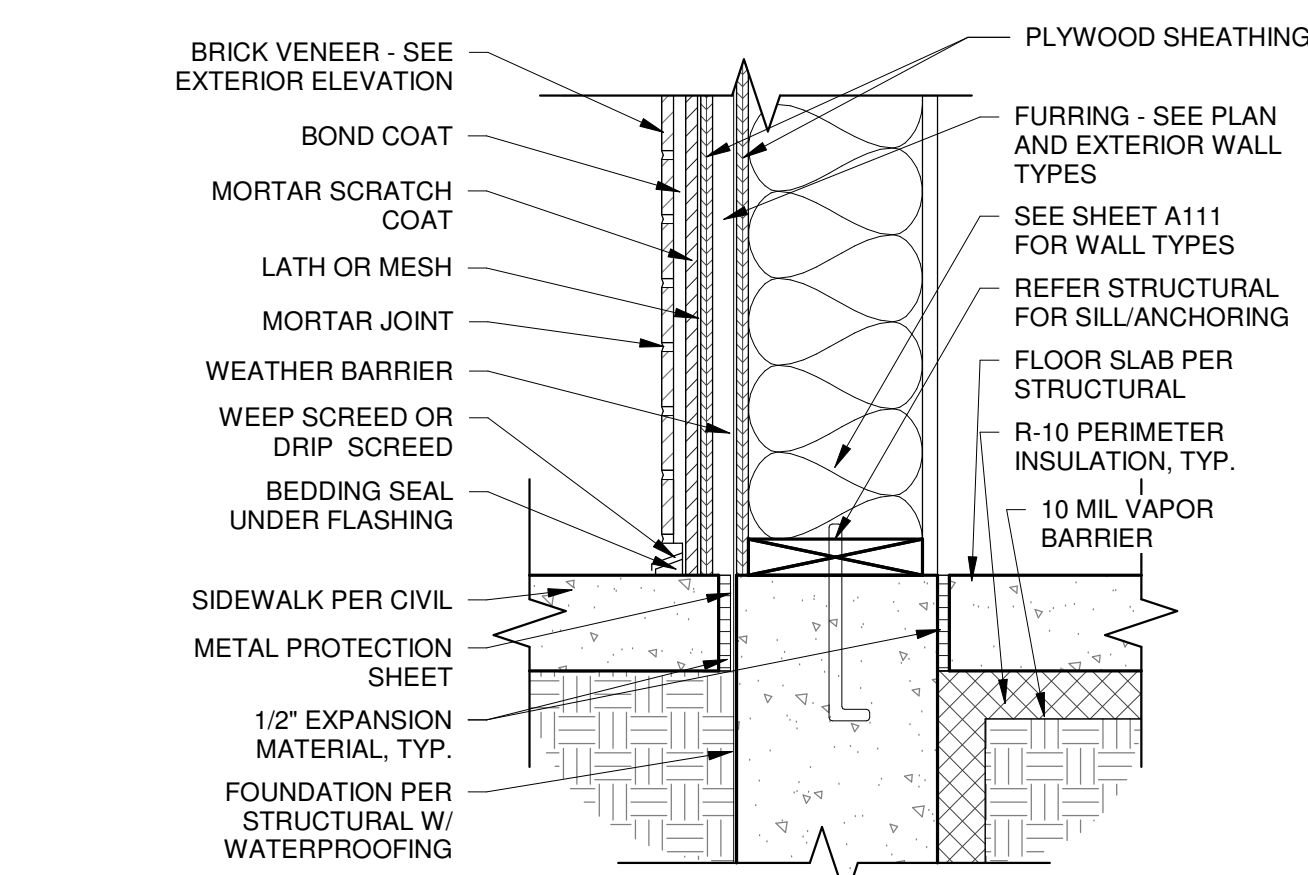
B2 VERTICAL TRANSITION AT BRICK & STOREFRONT
1 1/2" = 1'-0"



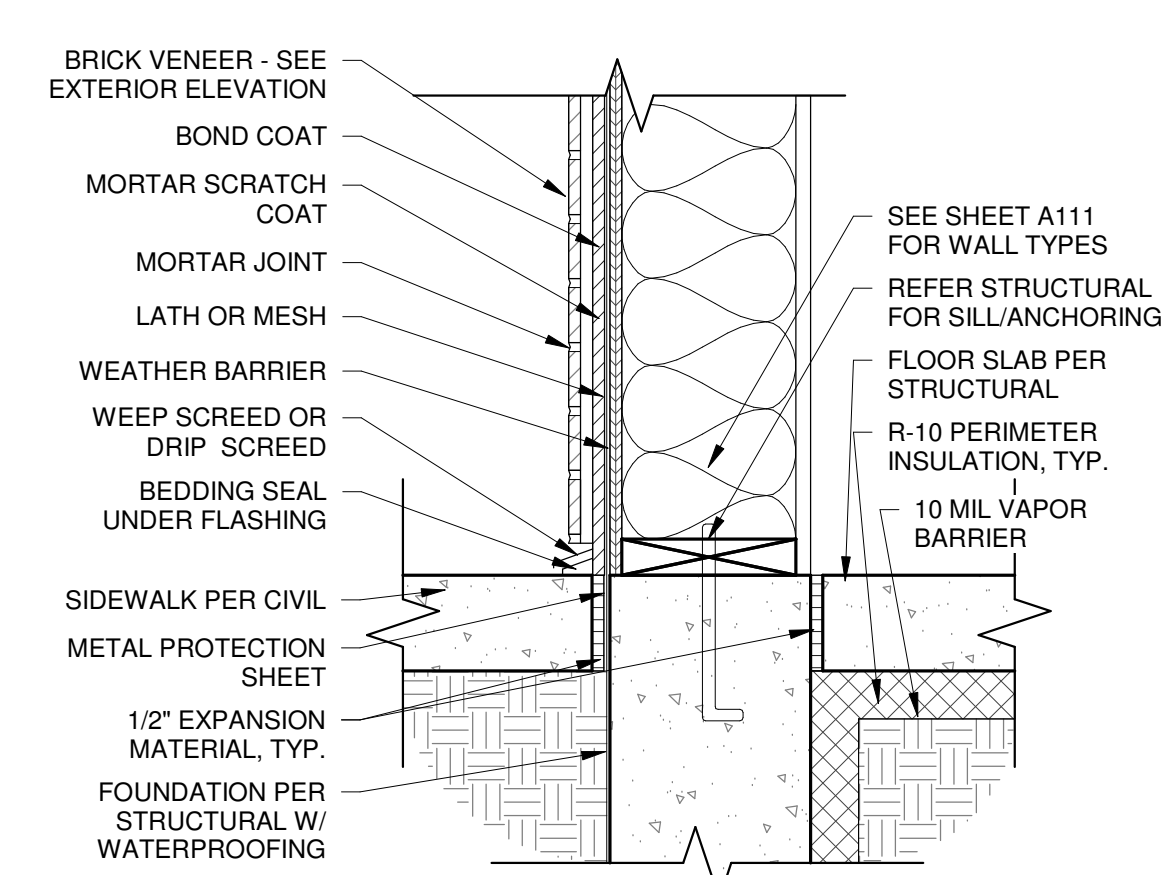
B3 AWNING BEAM AT BRICK
1 1/2" = 1'-0"



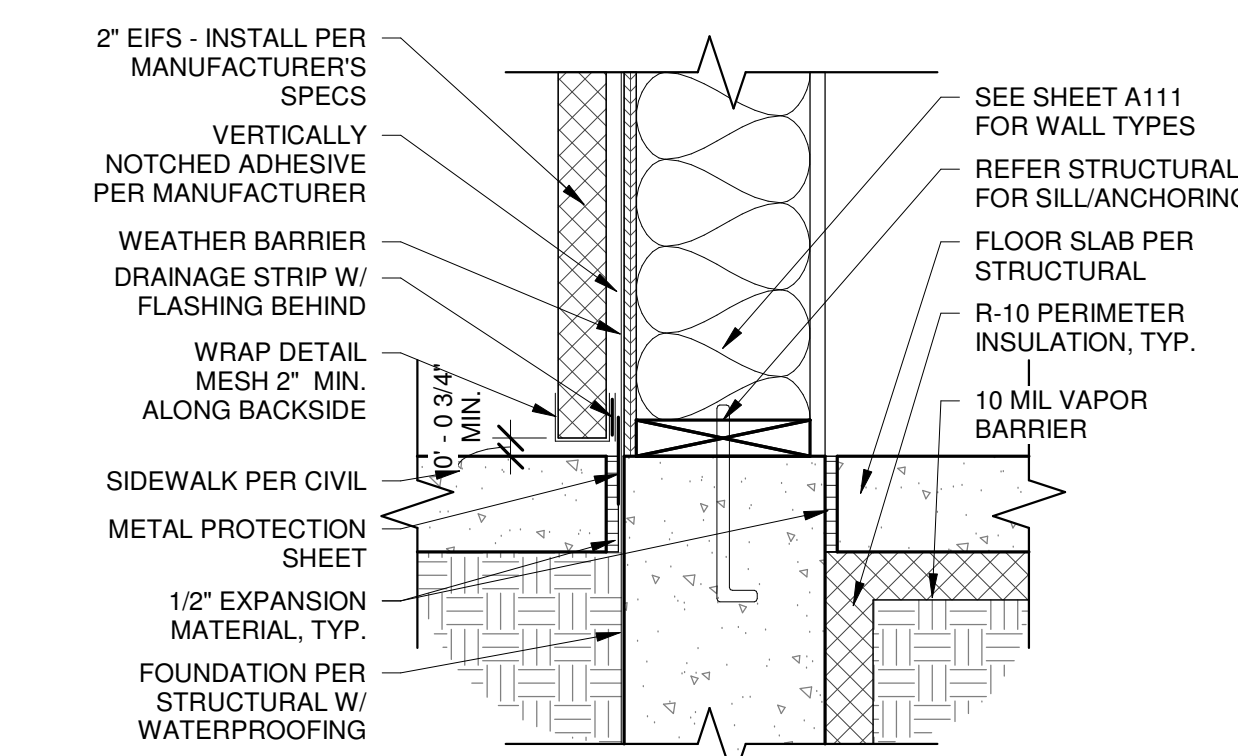
B4 SECTION AT THIN BRICK VENEER & EIFS
1 1/2" = 1'-0"



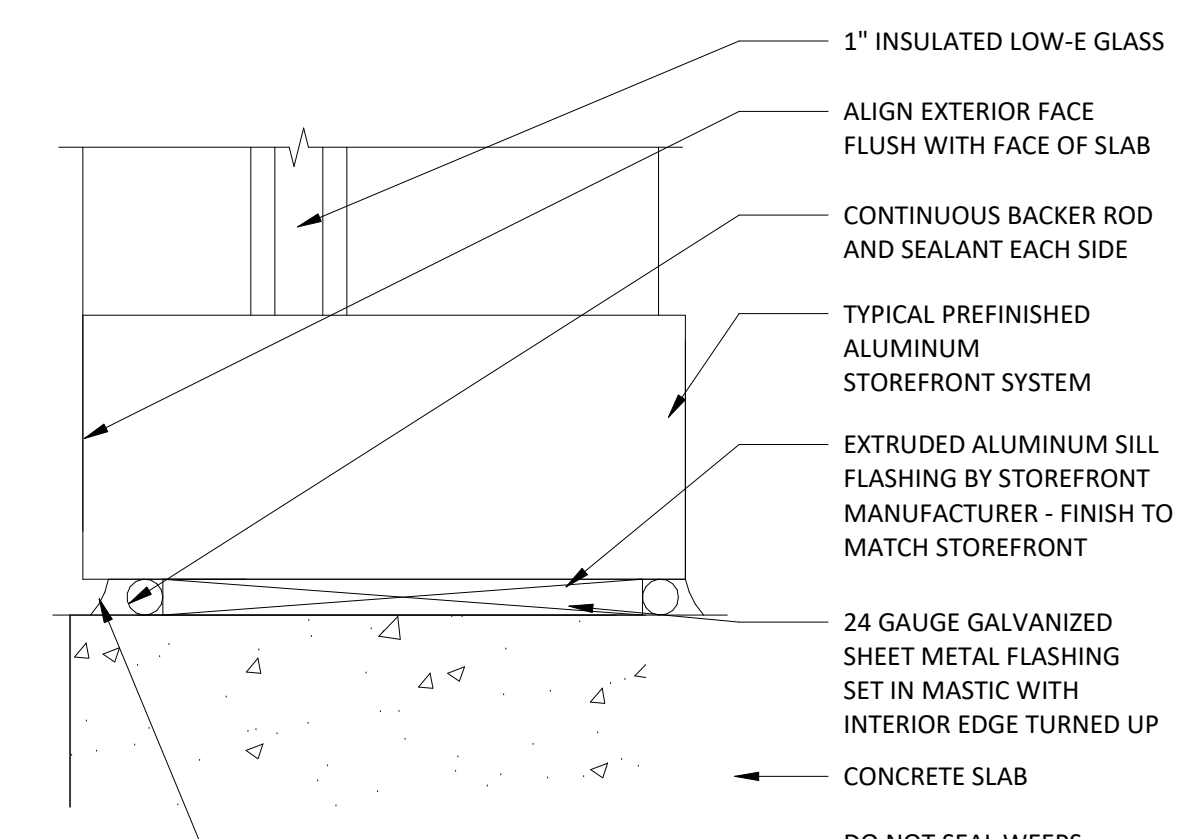
A1 BASE AT THIN BRICK FINISH FURRED
1 1/2" = 1'-0"



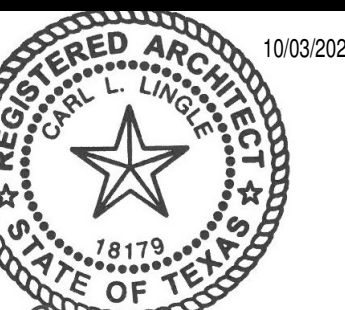
A2 BASE AT THIN BRICK FINISH
1 1/2" = 1'-0"

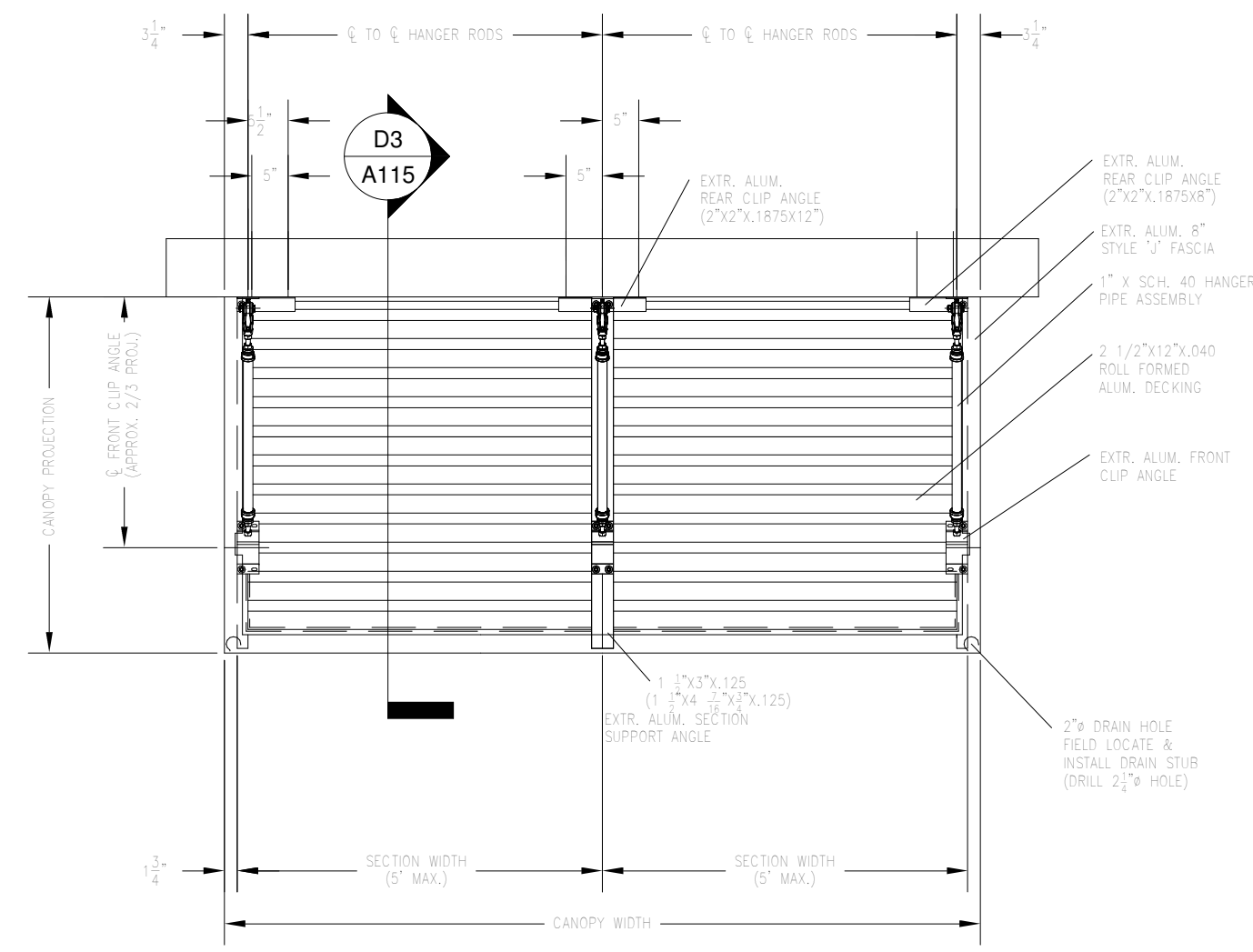


A3 BASE AT EIFS FINISH
1 1/2" = 1'-0"

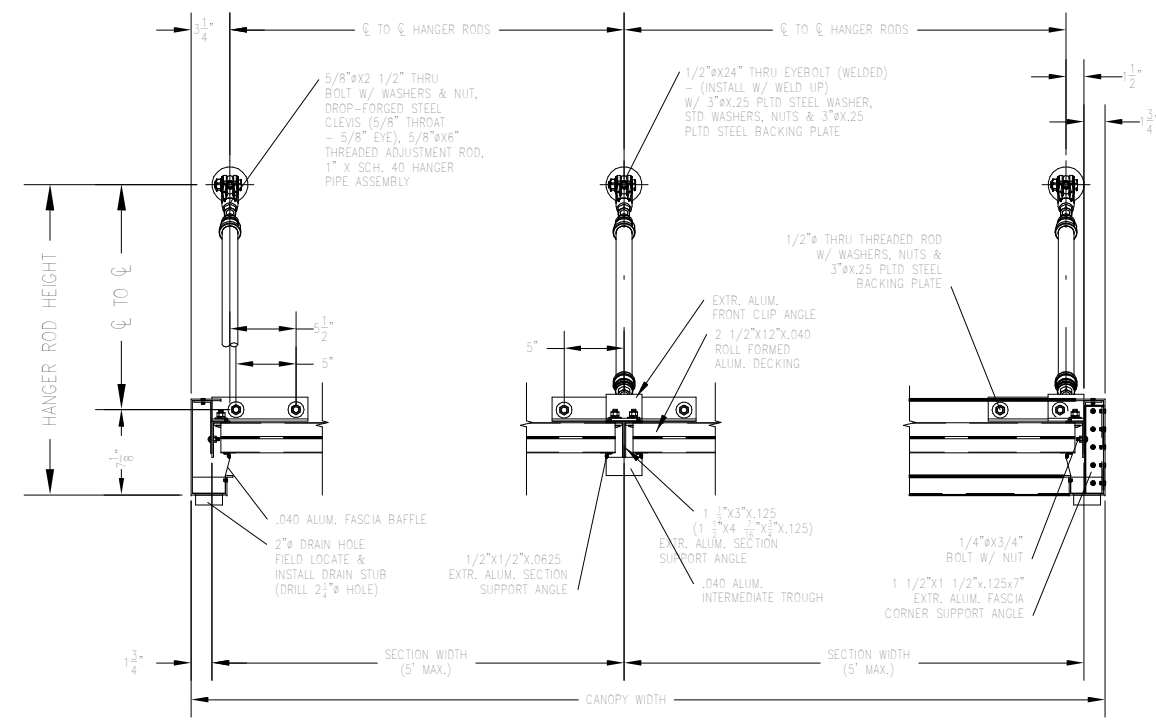


A4 STOREFRONT SILL DETAIL
6" = 1'-0"

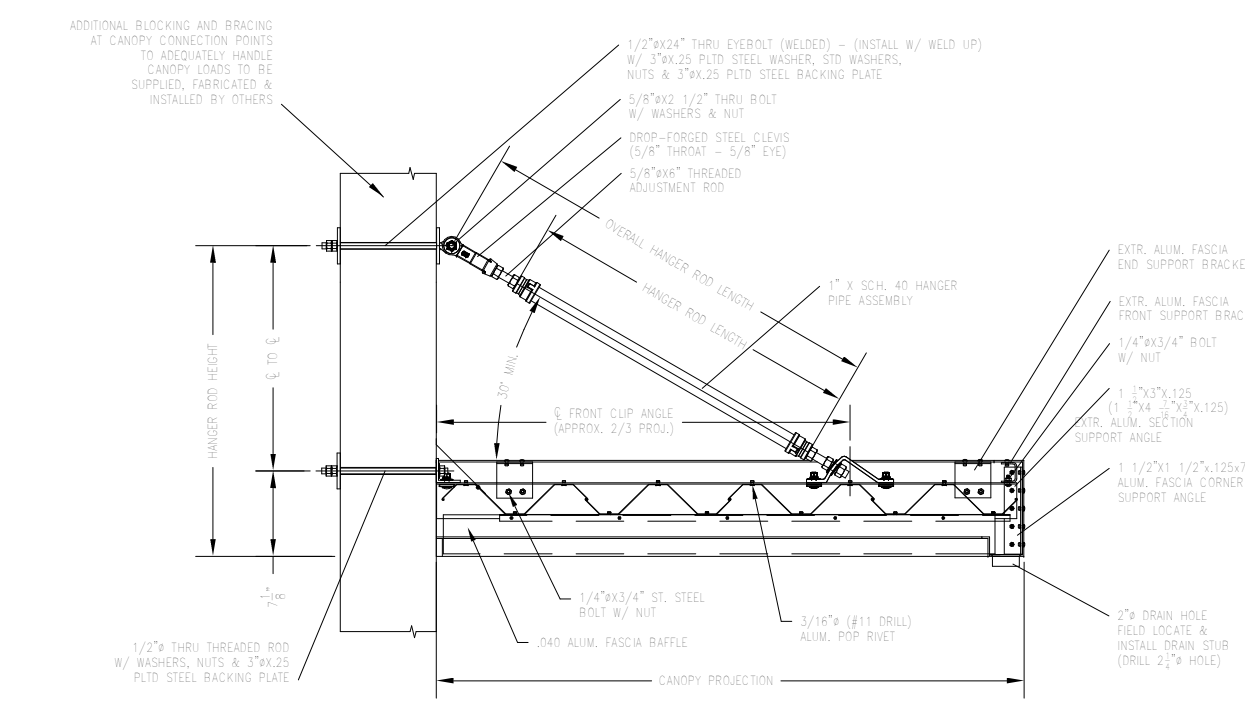




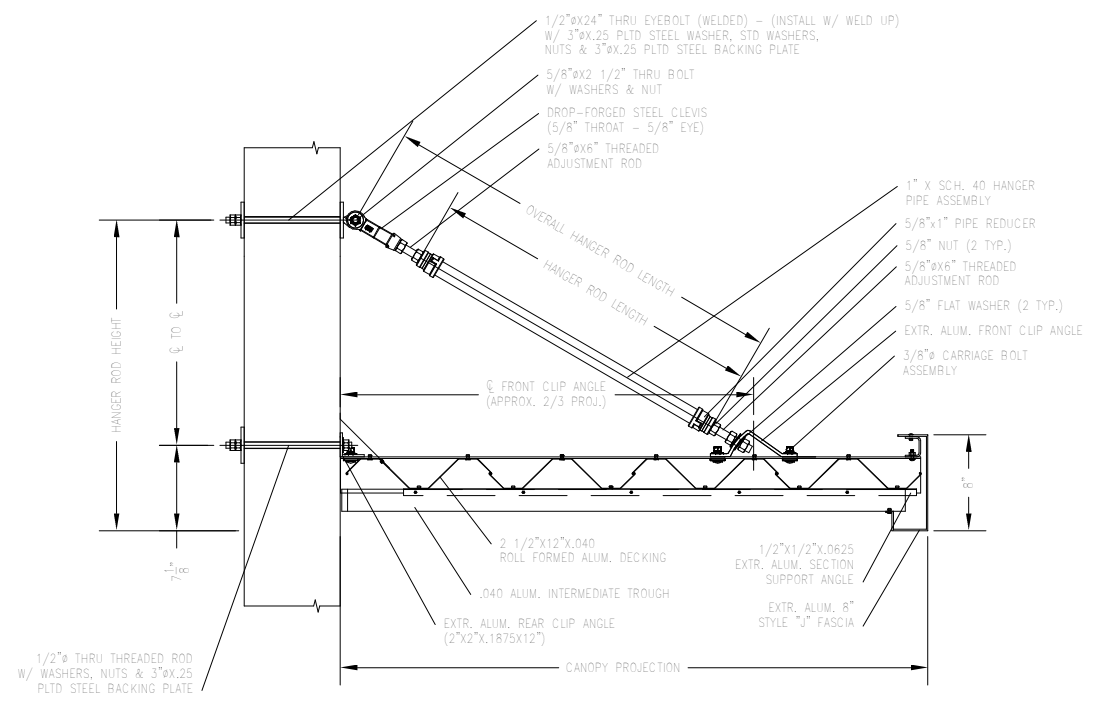
D1 AWNING PLAN
1/2" = 1'-0"



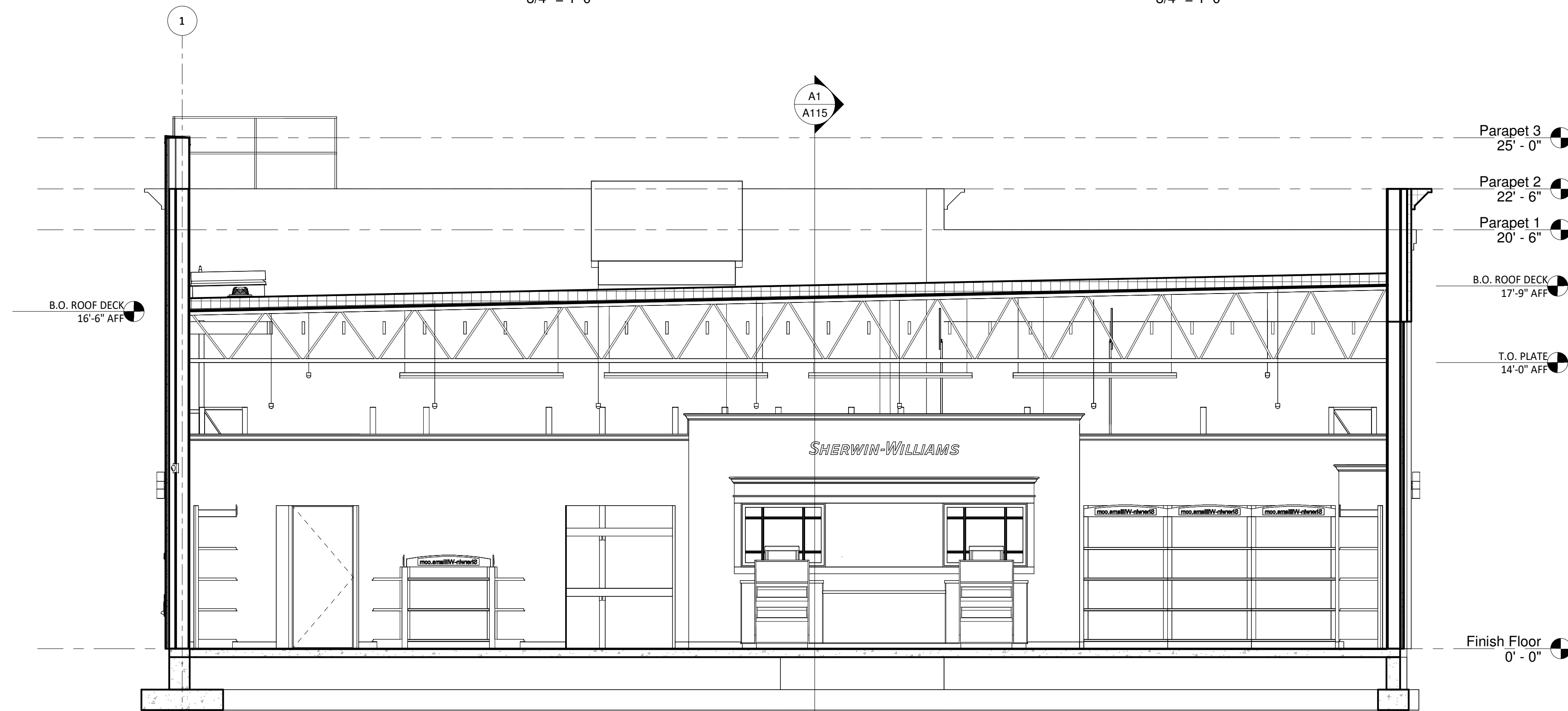
D2 AWNING DETAIL
3/4" = 1'-0"



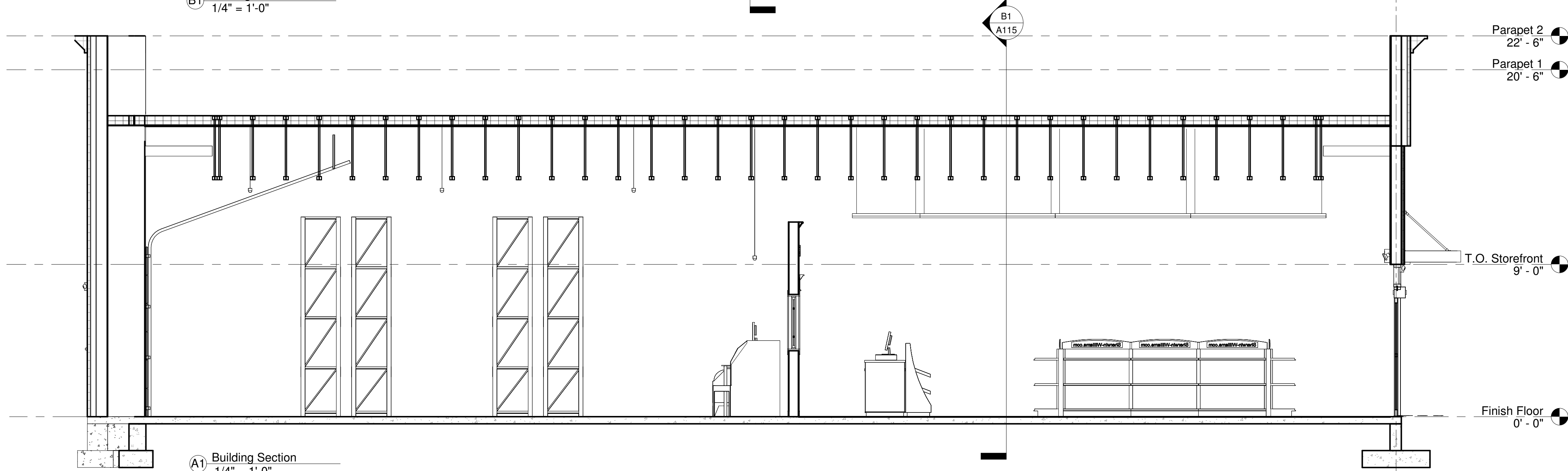
D3 AWNING SECTION
3/4" = 1'-0"



D4 AWNING SECTION
3/4" = 1'-0"



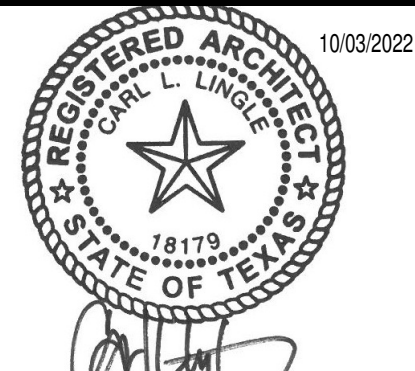
B1 Building Section
1/4" = 1'-0"



A1 Building Section
1/4" = 1'-0"

LINGLEDISIGNGROUP, INC
158 WEST MAIN STREET
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5875
WWW.LINGLEDISIGN.COM

ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE LINGLEDISIGN GROUP, INC. THEY MAY NOT BE REVISED, COPIED, REPRODUCED OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.



PROJECT #:
DRAWN BY: BA CHECKED BY: MP

PERMIT SET - 08/12/2022

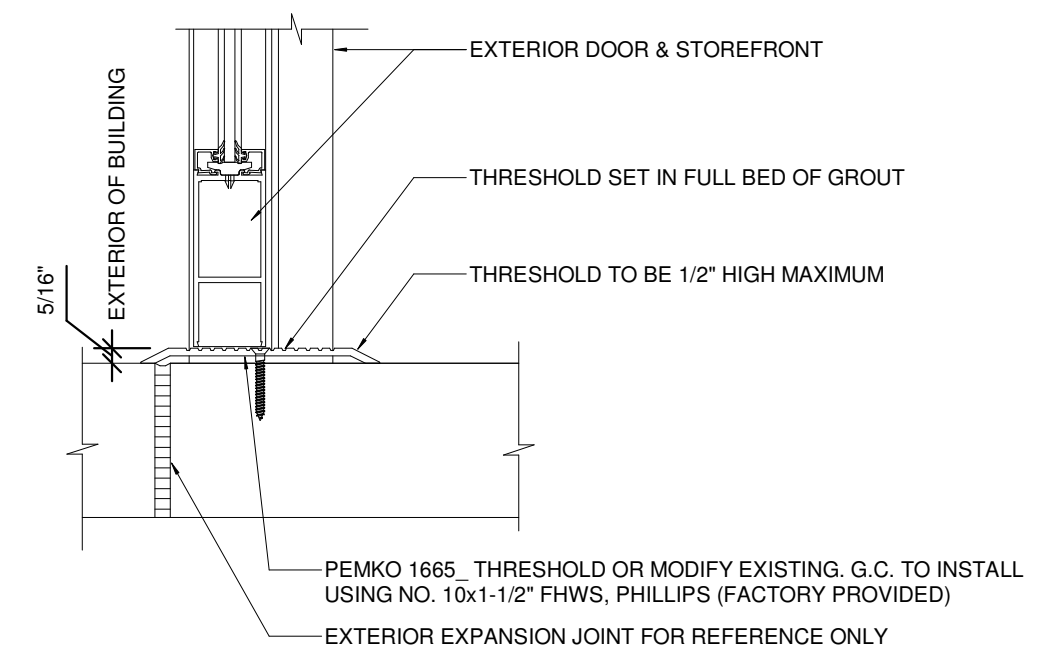
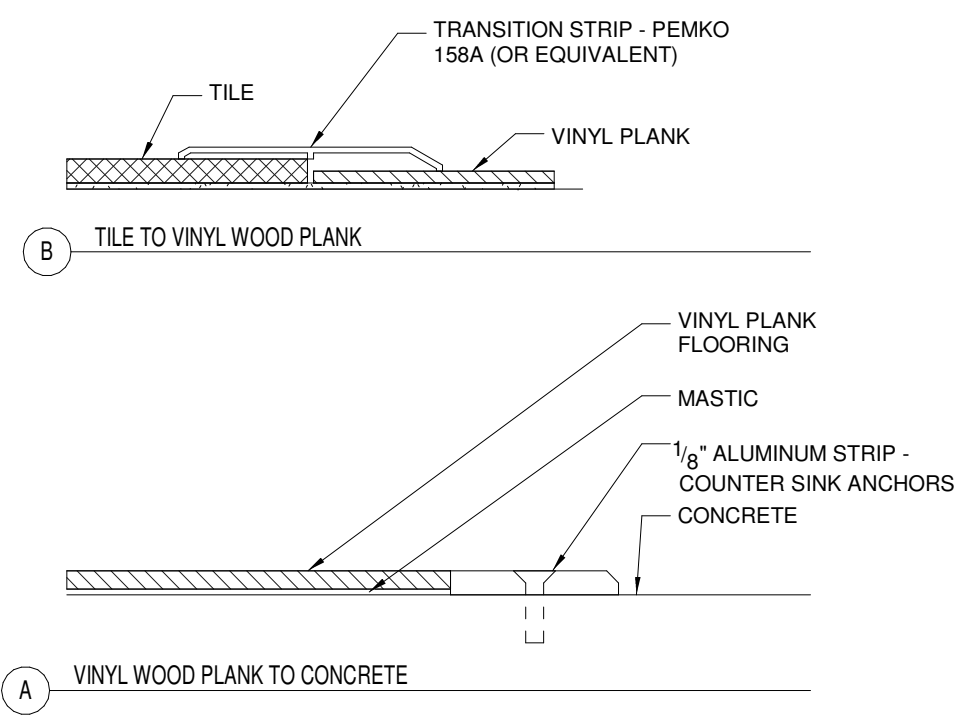
△	PERMIT COMMENTS - 10/03/2022
△	
△	
△	
△	
△	

SHERWIN WILLIAMS

STORE #:
XXXX
ADDRESS:
LOT 3, BLOCK "A"
HIGHWAY 973
MANOR, TX 78653

SHEET TITLE:
Building Sections &
Awning Details

SHEET NUMBER:
A115



GENERAL NOTES

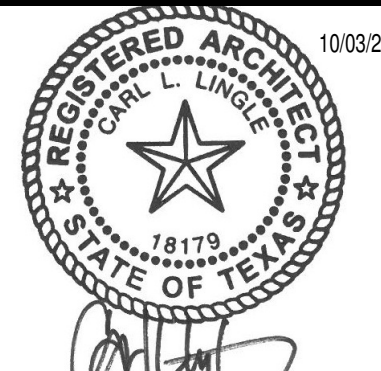
- A. ALL FLOOR FINISHES SHALL BE INSTALLED WITH TOP EDGES LEVEL WITH ADJACENT MATERIAL TOP EDGES. CONFIRM TILE THICKNESS AS THESE MAY VARY. CONFIRM THAT NO OVERALL FLOATING OF FLOOR IS REQUIRED.
- B. COORDINATE FLOORING TRANSITIONS AND BASE TILE INSTALLATION WITH MILLWORK SHOP DRAWINGS AND FIELD CONDITIONS.
- C. ALL THRESHOLDS SHALL HAVE A MAXIMUM HEIGHT OF 1/2" ABOVE EXISTING CONCRETE SLAB AND/OR INTERIOR FINISHES.
- D. TILE TRANSITION BETWEEN ROOMS TO BE CENTERED ON DOOR FRAME.
- E. SEE PLUMBING DRAWINGS FOR DIMENSIONS AND LOCATIONS OF FLOOR DRAINS AND FLOOR SINKS.
- F. ALL INTERIOR FINISHES TO HAVE A FLAME SPREAD RATING OF 25 OR LESS, WITH A MAXIMUM SMOKE GENERATION FACTOR OF 450.
- G. TILE INSTALLER SHALL COORDINATE WITH GENERAL CONTRACTOR AND PROVIDE LAYOUT OF ALL WALL TILE PRIOR TO INSTALLATION. GENERAL CONTRACTOR SHALL PREPARE WALLS AS TO MINIMIZE CUT TILES IN THE HORIZONTAL DIRECTION AND ELIMINATE CUT TILES IN THE VERTICAL DIRECTION ON ANY WALLS. CONTACT ARCHITECT OF ANY DISCREPANCIES IN DIMENSIONS FOR DIRECTION PRIOR TO INSTALLATION. FAILURE TO ADHERE TO THESE REQUIREMENTS RESULTING IN ANY REMEDIATION REQUIRED TO MEET DESIGN INTENT WILL BE AT CONTRACTORS COST.

INTERIOR FINISH LEGEND

MARK	DESCRIPTION	MANUFACTURER & SPEC.	REMARKS
BASE			
B-1	RUBBER COVE BASE	ARMSTRONG #018 "DESERT" OR JOHNSONITE #080 "FAWN"	INSTALL ON SHEETROCK WALLS IN STAGING, SALES, OFFICE, AND CORRIDOR AREAS
B-2	CERAMIC COVE BASE	DALTILE - SERIES: PORTFOLIO - SIZE: 6x12 COVE BASE - COLOR: NOCE #PF11	GROUT: MAPEI #39 IVORY
FLOORING			
F-1	VINYL WOOD PLANK	ARMSTRONG FLOORING - SERIES: NA180 - SIZE: 6" x 48" - COLOR: GALLERY OAK RYE	PROVIDED BY SHERWIN-WILLIAMS
F-2	CERAMIC TILE	DALTILE - SERIES: PORTFOLIO - SIZE: 12x24 - COLOR: NOCE #PF11	GROUT: MAPEI #39 IVORY
F-3	DENSIFIED CONCRETE	H&C ENDURA POLISH CONCRETE SEALER	POLISH TO 800 GRIT BEFORE SEALING JOINT FILLER: SHER-CRETE POLYUREA
PAINT			
P-1	PAINT - ACCESSIBLE BEIGE	SHERWIN-WILLIAMS - SERIES: EMERALD K37 - COLOR: SW 7036 - FINISH: FLAT	(2) COATS IN SALES AREA, OFFICE, CORRIDOR, AND STAGING - (2) COATS ON WOOD DOORS & TRIM, HOLLOW METAL DOOR FRAMES U.N.O.
P-2	PAINT - CITYSCAPE	SHERWIN-WILLIAMS - SERIES: EMERALD K37 - COLOR: SW 7067 - FINISH: FLAT	(2) COATS ON SALES AREA ACCENT WALL (SEE A1A300)
P-3	PAINT - AESTHETIC WHITE	SHERWIN-WILLIAMS - COLOR: SW 7035	(2) COATS ON WOOD CAP, CROWN MOLDING, CORRIDOR CEILING - USE DRYFALL PAINT ON ROOF STRUCTURE, DECK & DUCTING
P-4	PAINT - DRY ERASE	SHERWIN-WILLIAMS - DRY ERASE CLEAR GLOSS COATING KIT KB55C2000 - FINISH: CLEAR	USE ON OFFICE WALL - SEE PLAN
P-5	PAINT - ANTIMICROBIAL	SHERWIN-WILLIAMS - SERIES: PAINT SHIELD - COLOR: SW 7036 - FINISH: EGGSHELL	USE IN RESTROOMS AND HALLWAY
P-6	PAINT - SNAPDRY	SHERWIN-WILLIAMS - SERIES: SNAPDRY - COLOR: SW 7035	USE ON HORIZONTAL SURFACE OF TINTING WINDOW OPENING
MISCELLANEOUS			
M-1	LATICRETE	HYDRO BAN	INSTALL AT ALL WET WALLS & DEMISING WALL(S) - SEE DETAIL
M-2	WINDOW GRAPHIC	PRINTED VINYL SHEET	SHERWIN-WILLIAMS PROVIDE/INSTALL - EXTERIOR OF GLASS AT STAGING AREA
M-3	PLASTIC LAMINATE	PIONITE - SERIES: HARD ROCK - COLOR: MAPLE G48 WM791 H	USE FOR ALL EXPOSED SURFACES OF COUNTER AND SHELVING IN OFFICE
WALL COVERING			
WC-1	CERAMIC TILE	DALTILE - SERIES: PORTFOLIO - SIZE: 6x24 & 3x12 BULLNOSE - COLOR: NOCE #PF11	5'-3" HIGH WAINSCOT (FULL HEIGHT @ WET WALL) - SEE ELEVATIONS - GROUT: MAPEI #39 IVORY
WC-2	FRP WALL PANEL	MARLITE - MODEL: P-100 - FINISH: PEBBLED - COLOR: WHITE	INSTALL TO 4'-0" A.F.F.
NOTES:			
A.	CONFIRM PAINT FINISH AND COATING/PRIMING REQUIREMENTS WITH PAINT SPECIFICATIONS ON SHEET A121		

LINGLE DESIGN GROUP, INC.
LINGLEDESIGNGROUP, INC.
158 WEST MAIN STREET
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5875
WWW.LINGLEDESIGN.COM

© ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE LINGLE DESIGN GROUP, INC. THEY MAY NOT BE REVISED, COPIED, REPRODUCED, OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.



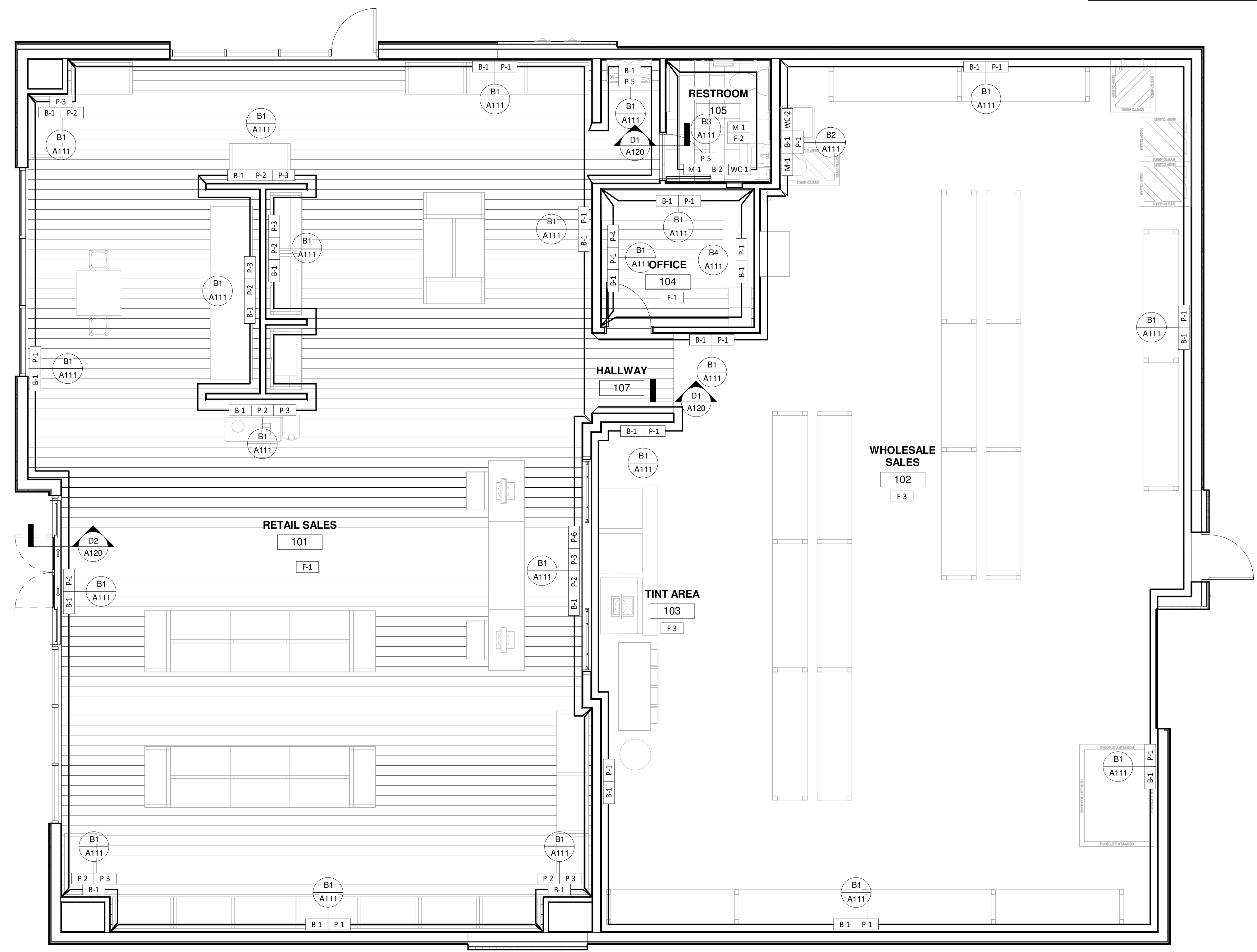
PROJECT #:
DRAWN BY: BA
CHECKED BY: MP

PERMIT SET - 08/12/2022
PERMIT COMMENTS - 10/03/2022

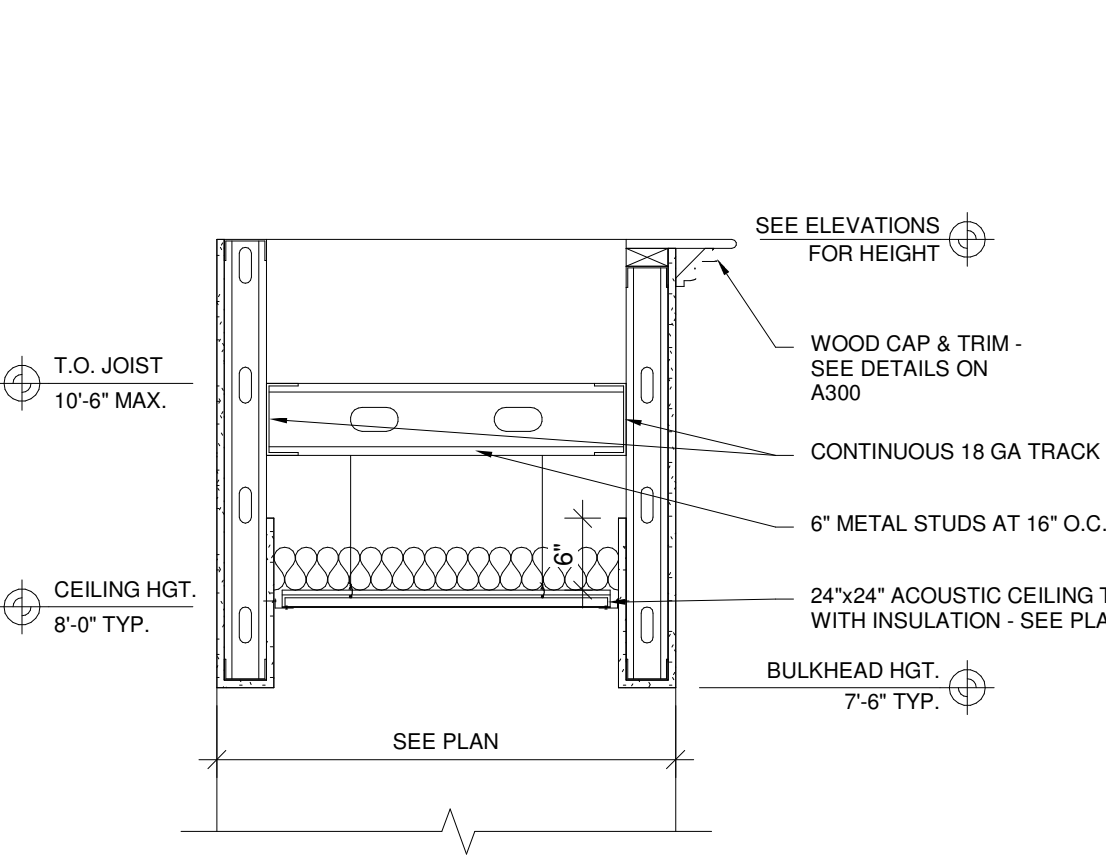
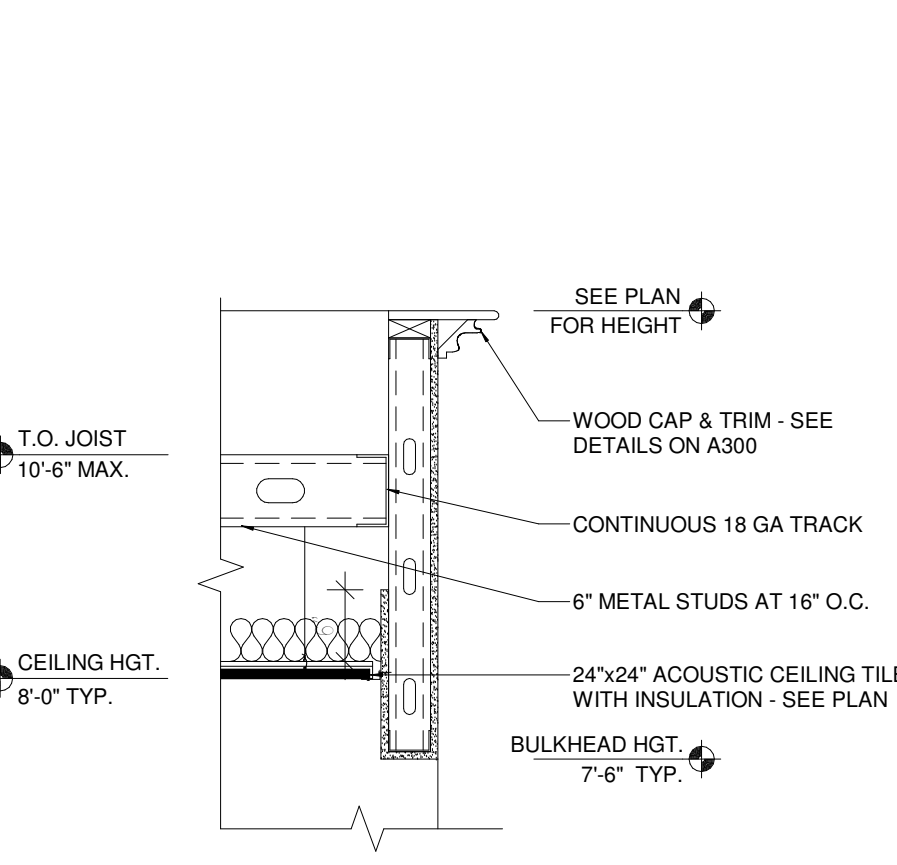
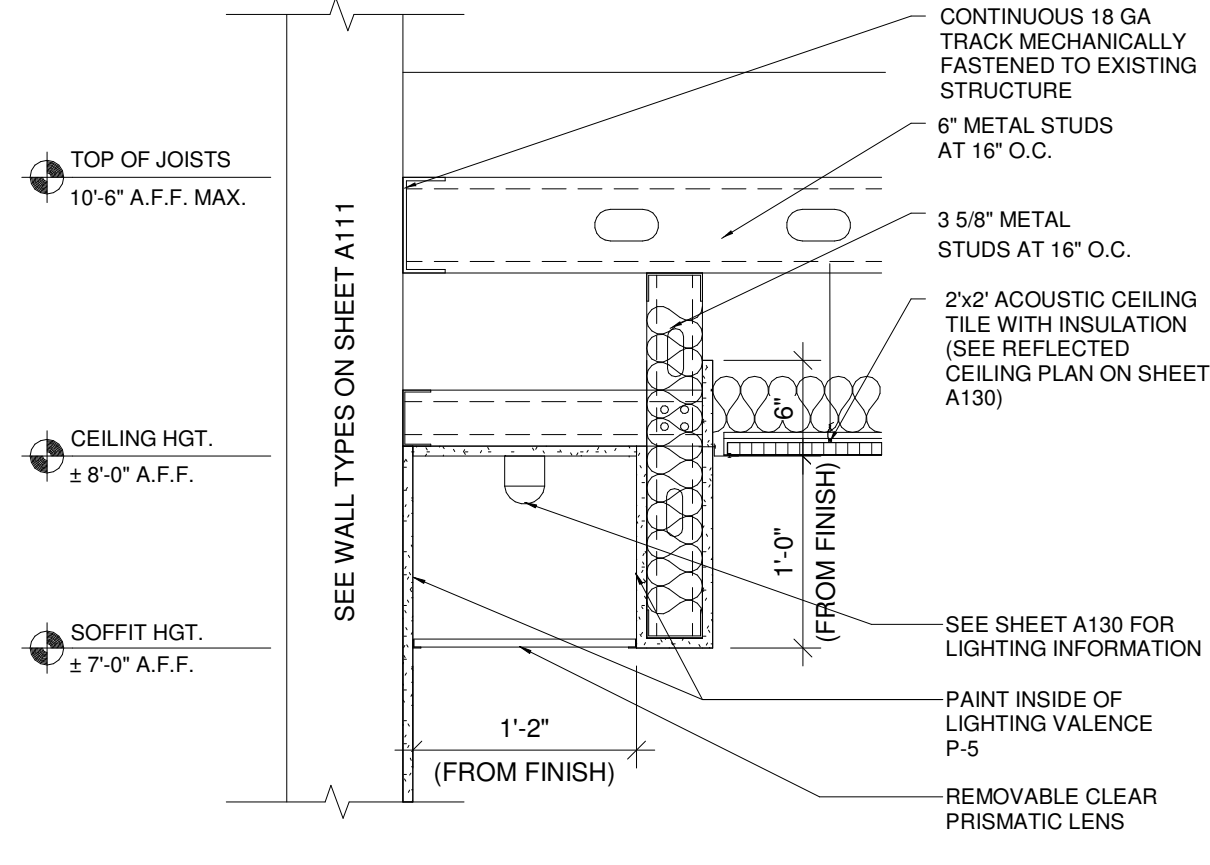
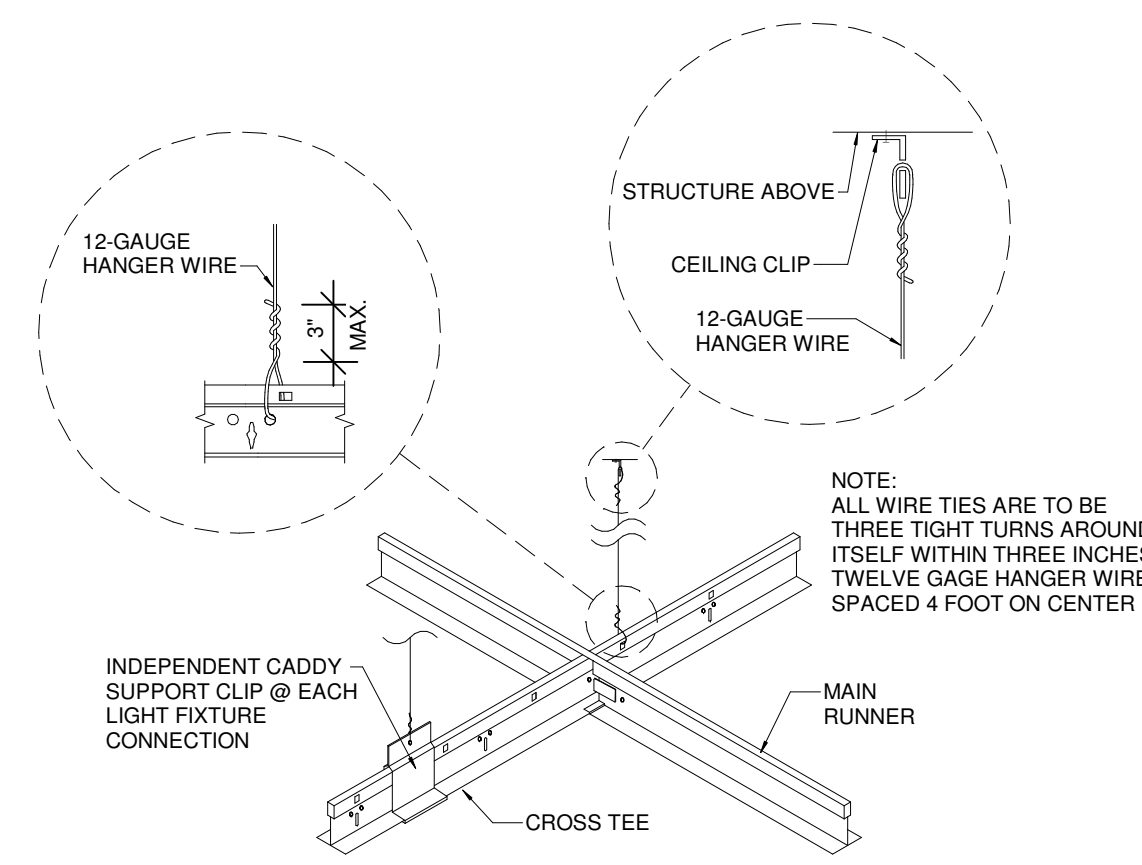
SHERWIN WILLIAMS

STORE #:
XXXX
ADDRESS:
LOT 3, BLOCK "A"
HIGHWAY 973
MANOR, TX 78653
SHEET TITLE:

Finish Plan
SHEET NUMBER:
A120



A1 Finish Plan
1/4" = 1'-0"



Lighting Fixture Schedule

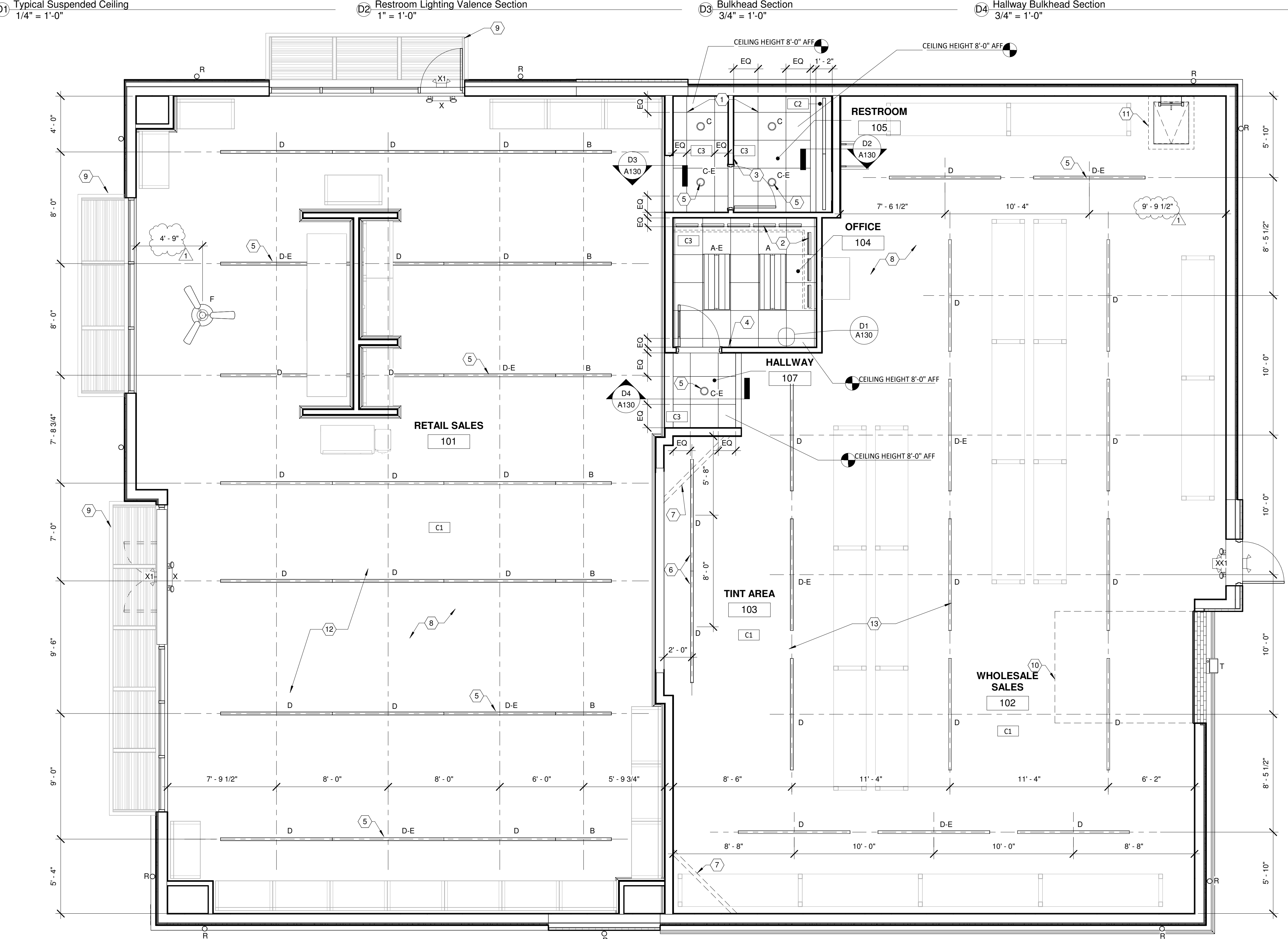
Type Mark	Count	Description	Manufacturer	Model	Lamp	Comments
A	1	2x4 LED Troffer	Cree	ZR24-50L40K-10V	LED	Provided by Sherwin-Williams
A-E	1	2x4 LED Troffer	Cree	ZR24-50L40K-10V	LED	Provided by Sherwin-Williams - Connect to non-switched emergency circuit
B	9	48" LED Strip	Cree	LS8-80L-40K-10V	LED	Provided by Sherwin-Williams
C	2	6" Recessed Downlight	Prescolite	LF6LED	LED	Connect to non-switchd emergency circuit
C-E	3	6" Recessed Downlight (emergency)	Prescolite	LF6LED	LED	Connect to non-switchd emergency circuit
D	31	96" LED Strip	Cree	LS8-80L-40K-10V	LED	Provided by Sherwin-Williams
D-E	8	96" LED Strip (emergency)	Cree	LS8-80L-40K-10V	LED	Provided by Sherwin-Williams - Connect to non-switched emergency circuit
F	1	Ceiling Fan	Craftmade	MND54BNK3 - 54"		Mount @ 8'-0" A.F.F. - install "lighting box" for stability
R	11	Exterior Up/Down Sconce	Eaton	9004-W2-RW-LED408 0-S-S-CS-1-1-UNV-WIS	LED	<varies>
T	1	Exterior Security Light	Hubbell	LN3C	LED	
U	8	Under-shelf Lighting	Tech Lighting	700UC1995B-LED	LED	
X	3	Exit signage w/ Emergency Lighting	Juno	NXPCL3GWH-HO	LED	Exit sign/emergency combo fixture with 90 minute battery backup
X1	4	120V EMERGENCY LIGHT FIXTURE	LSI	EPM-SD2-WHT	A-19	<varies>

- ### RCP CODED NOTES
- CEILING GRID ORIGIN POINT
 - INSTALL LIGHTS ON UNDERSIDE OF OFFICE SHELF - SWITCH WITH OTHER OFFICE LIGHTS - SEE DETAIL B3/A111
 - INSTALL AUTOMATIC MOTION SENSING SWITCHES (15-MINUTE GRACE PERIOD) TO CONTROL ALL LIGHTING AND EXHAUST FANS (IF APPLICABLE)
 - WIRE ALL LIGHT FIXTURES IN THE SALES, CORRIDOR AND STAGING AREAS THROUGH 8-BUTTON ELECTRONIC SWITCH WITH LED INDICATORS INSIDE THE OFFICE (LEGRAND LMSW-108 OR EQUAL)
 - CONNECT "D-E" FIXTURES TO SEPARATE NON-SWITCHED CIRCUIT
 - MOUNT LIGHT FIXTURES IN TINTING AREA 9'-6" A.F.F.
 - HORIZONTAL WALL BRACE AT 10'-0" A.F.F. 20GA METAL STUD
 - CONFIRM HVAC DUCTWORK AND DIFFUSER/RETURN LOCATIONS WITH MECHANICAL SHEETS - HOLD DUCTWORK CLOSE TO STRUCTURE
 - NEW METAL AWNING - MAPES LUMISHADE (OR EQUIVALENT) - 8" FASCIA - SEE SHEET A114
 - HOLD OVERHEAD DOOR TRACK BELOW LIGHT FIXTURE - VERIFY HEIGHT IN FIELD
 - ROOF ACCESS HATCH - SEE DETAIL C4/A111 - COORDINATE PLACEMENT WITH STRUCTURAL
 - LIGHT FIXTURES AT RETAIL SALES TO BE MOUNTED AT 12' AFF.
 - LIGHT FIXTURES AT WHOLESALE AREA TO BE MOUNTED AT 13'-6" AFF.

- ### GENERAL NOTES:
- VERIFY ALL PLACEMENTS OF LIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
 - SEE ELECTRICAL PLANS FOR ADDITIONAL LIGHTING INFORMATION
 - ALL CEILING MATERIAL SHALL NOT EXCEED FLAME CLASS II - FLAME SPREAD INDEX 25-75.
 - G.C. SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES INVOLVED IN THE CEILING WORK TO ENSURE THAT PROPER CLEARANCES FOR DUCTS, LIGHTS, PIPING, ETC. ARE MET AND THAT THE CEILING HEIGHTS NOTED ON THE DRAWINGS ARE MAINTAINED
 - G.C. TO VERIFY REQUIREMENTS AND QUANTITIES OF FIRE PROTECTION DEVICES INCLUDING SMOKE DETECTORS, DUCT SMOKE DETECTORS, FIRE ALARMS, RELATED SPEAKERS, STROBES, ETC. LIFE SAFETY INSTALLATIONS TO MEET REQUIREMENTS OF ALL APPLICABLE CODES AND ORDINANCES
 - G.C. TO CAULK JOINTS BETWEEN CEILING GRID AND ADJACENT SURFACES.

CEILING FINISH SCHEDULE

DESCRIPTION:	NOTES:
C1 CEILING: EXPOSED TO STRUCTURE: FINISH: PAINT P-3	HVAC DUCTWORK TO BE PAINTED P-3
C2 CEILING: INSTALL 5/8" GYP. BD. CEILING FINISH: PAINT P-3 U.N.O.	
C3 MFG: USG FINISH: 24"x24" SANDRIFT #808 COLOR: WHITE HEIGHT: 8'-0" A.F.F. U.N.O.	GRID: USG DX GRID SYSTEM - GC SUPPLY/INSTALL - FACTORY PAINTED WHITE



LINGLE DESIGN GROUP, INC.
158 WEST MAIN STREET
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5875
WWW.LINGLEDESIGN.COM

REGISTERED ARCHITECT
STATE OF TEXAS
18175
10/03/2022
PROJECT #:
DRAWN BY: BA CHECKED BY: MP

- PERMIT SET - 08/12/2022
PERMIT COMMENTS - 10/03/2022
- △ -
 - △ -
 - △ -
 - △ -
 - △ -
 - △ -

SHERWIN WILLIAMS

STORE #:
XXXX

ADDRESS:
LOT 3, BLOCK "A"
HIGHWAY 973
MANOR, TX 78653

SHEET TITLE:
Reflected Ceiling Plan

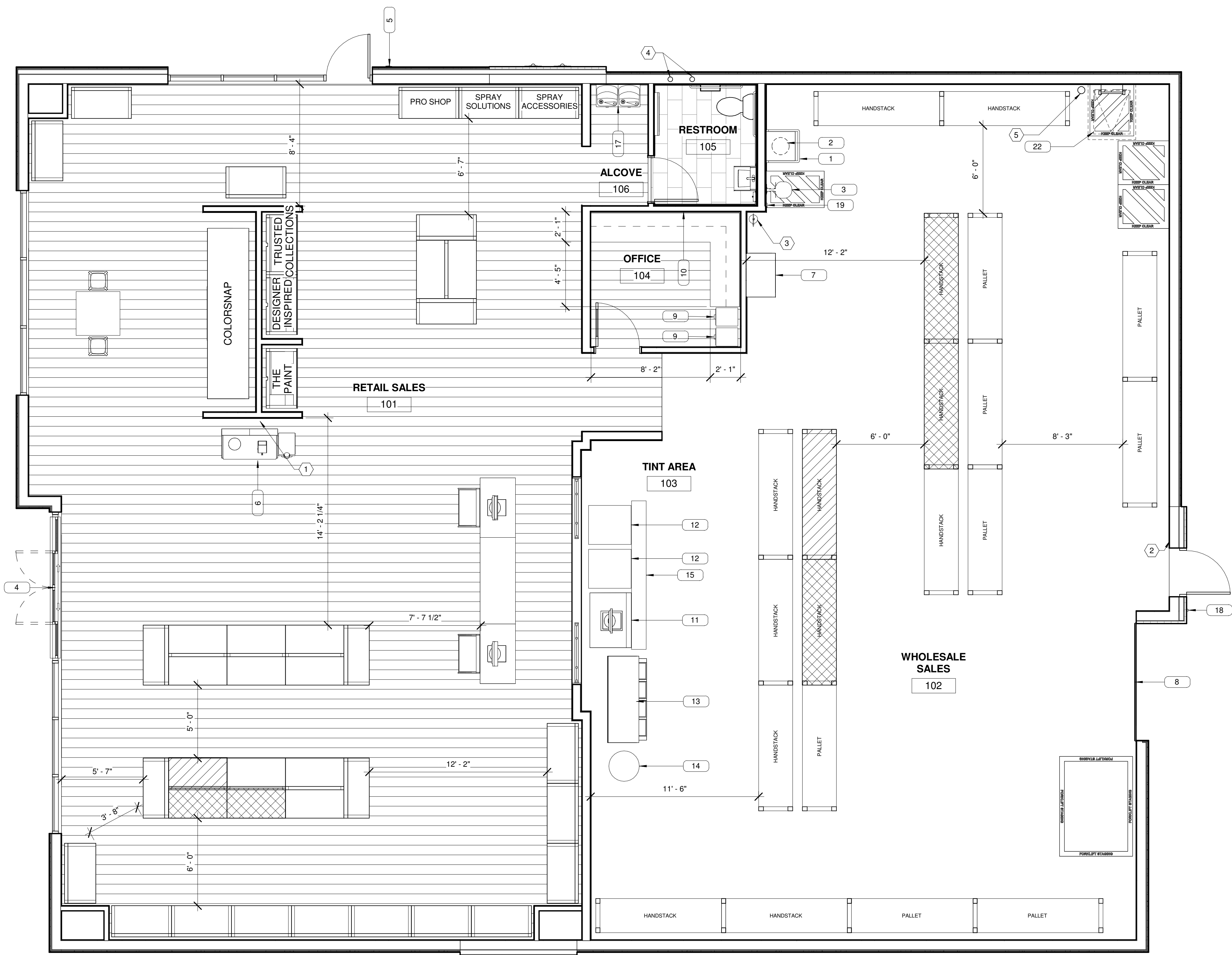
SHEET NUMBER:
A130

HAZARDOUS MATERIALS STORAGE					
		MAX. STORAGE HEIGHT	MAX. AMOUNT	ACTUAL AMOUNT	
FLAMMABLE CLASS	1A	4'-0"	30 GAL	0 GAL	
	1B	4'-0"	1,600 GAL TOTAL	392 GAL	654 GAL TOTAL
	1C	4'-0"		60 GAL	
COMBUSTIBLE CLASS	II	6'-0"	13,200 GAL	150 GAL	330 GAL
	IIIA	6'-0"		52 GAL	
	IIIB	6'-0"			
AEROSOL LEVEL	1	8'-0"	2,500 LBS	203 LBS	121 LBS
	2	8'-0"	1,000 LBS	2,500 LBS TOTAL	224 LBS TOTAL
	3	8'-0"		21 LBS	

NOTE: TENANT WILL BE RESPONSIBLE FOR ADDING PERMANENT SIGNS ON EACH STORAGE SHELF OR RACK STATING THE ABOVE STORAGE LIMITATIONS AND TRAINING STORE STAFF IN PROPER STORAGE OF FLAMMABLE AND COMBUSTIBLE LIQUIDS. STORE OWNER WILL BE RESPONSIBLE FOR ADDING SIGNAGE TO SHELF AND RACK STORAGE WHERE FLAMMABLE AND COMBUSTIBLE LIQUIDS ARE STORED THAT "WARNING, NO COMBUSTIBLE PRODUCTS ARE TO STORED ABOVE ANY FLAMMABLE OR COMBUSTIBLE LIQUIDS" PER 2018 IFC.

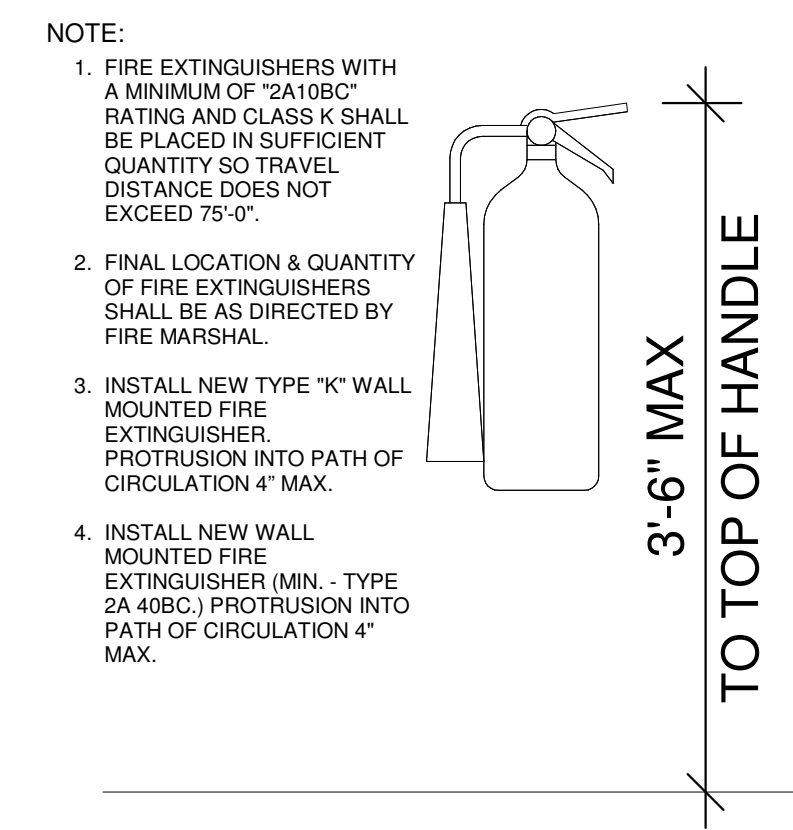
EQUIPMENT LIST						
TAG	DESCRIPTION	MANUFACTURER	MODEL	PROVIDED BY	INSTALLED BY	REMARKS
1	UTILITY SINK	ELKAY	B1C24X24X	GC	GC	ELEVATED ON METAL LEGS
2	WATER HEATER	A. O. SMITH	DEL-20	GC	GC	MOUNT ON SHELF ABOVE UTILITY SINK - VERIFY SPEC W/ PLUMBING
3	EYEWASH STATION	BRADLEY	S19224C	GC	GC	WALL MOUNTED - PLUMB TO HOT/COLD WATER (W/ MIXING VALVE) & SANITARY SEWER
4	SLIDING GLASS DOOR	TORMAX	TX9200	GC	GC	
5	EMERGENCY KEY CABINET	KNOX BOX	3200 RECESSED MOUNTED	GC	GC	MOUNT 4'-0" A.F.F. - COORDINATE FINAL PLACEMENT WITH FIRE PREVENTION BUREAU
6	COFFEE BAR W/ WATER COOLER			TENANT	TENANT	
7	DATA CABINET			GC	GC	INSTALL PHONE/COMPUTER BOARD AT DATA CABINET - SEE DETAIL A5/A300
8	Overhead Delivery Door	Overhead Door	470	GC	GC	10'-0" W X 10'-0" OPENING - LIGHT GRAY - WALL-MOUNTED MOTORIZED OPERATOR: LIFTMASTER LJ8900W
9	FILE CABINET			TENANT	TENANT	

EQUIPMENT LIST						
TAG	DESCRIPTION	MANUFACTURER	MODEL	PROVIDED BY	INSTALLED BY	REMARKS
10	ALUMINUM RACEWAY	LEGRAND	ALA4800 & ALA-G	TENANT	GC	ALTERNATES: HUBBLE HBLALU4800 & MONOSYSTEMS SWA4800
11	ACCUTINTER	MILLER	ACCUTINTER 8012	TENANT	TENANT	VERIFY SPEC W/ SHERWIN-WILLIAMS
12	5 GALLON MIXER	RED DEVIL	05025U	TENANT	TENANT	VERIFY SPEC W/ SHERWIN-WILLIAMS
13	1 GALLON MIXER	RED DEVIL	1015-PB-SQ	TENANT	TENANT	
14	MANUAL TINTER	FLUID MANAGEMENT	HARBIL NSC80	TENANT	TENANT	VERIFY SPEC W/ SHERWIN-WILLIAMS
15	CONVEYOR ROLLER			TENANT	TENANT	VERIFY SPEC W/ SHERWIN-WILLIAMS
17	HIGH/LOW DRINKING FOUNTAIN	ELKAY	EDFP217C	GC	GC	REFER PLUMBING
18	EXTERIOR BUZZER BUTTON	EDWARDS	1786-B	GC	GC	MOUNT 4'-0" A.F.F. - REFER ELECTRICAL
19	BUZZER RECEIVER	OPTEX	RCTD-20U	GC	GC	MOUNT 9'-0" A.F.F. - REFER ELECTRICAL
22	ROOF HATCH	BILCO	GS-50TB - 36x30	GC	GC	COORDINATE PLACEMENT WITH STRUCTURAL

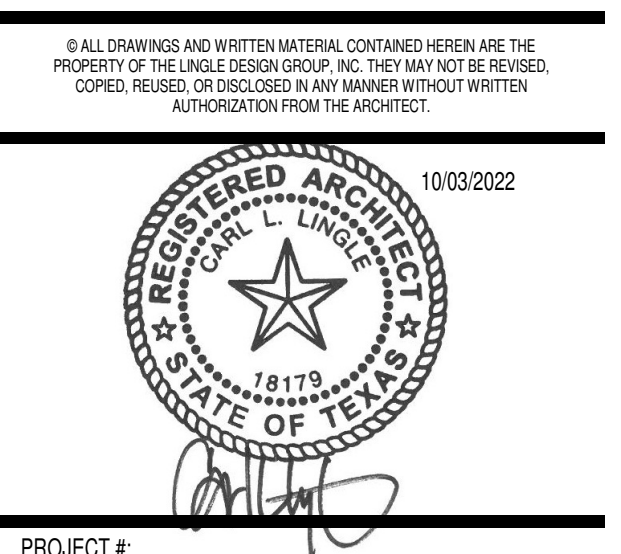


FIXTURE PLAN CODED NOTES	
1	COLD WATER LINE FOR COFFEE MAKER - SEE PLUMBING SHEETS
2	TIME CLOCK & LUTRON VIVE LIGHTING CONTROL SYSTEM - VERIFY W/ ELECTRICAL
3	FIRE EXTINGUISHER - SEE DETAIL A5/A140
4	4" PVC ROOF DRAIN PIPE - SEE SHEET A150
5	AS-BUILT DRAWING TUBE - SEE DETAIL C5/A111

- ### CONSTRUCTION NOTES
- THE GC SHALL INSTALL NEW VINYL WOOD PLANK FLOORING AND COVE BASE IN THE SALES, OFFICE AND CORRIDOR AREAS. INSTALL CERAMIC TILE ON THE FLOOR AND AS A 5'-3" HIGH WAHNSCOT ON ALL WALLS FACING INTO THE RESTROOMS. SEE SHEET A400 FOR MORE INFORMATION.
 - THE GC SHALL INSTALL SHEETROCK FURRING ON ALL EXTERIOR WALLS, INTERIOR COLUMNS AND MASONRY WALLS FACING INTO THE SALES AREA. THESE WALLS SHALL EXTEND FROM THE SLAB TO THE UNDERSIDE OF THE ROOF DECK. INCLUDE INSULATION AS REQUIRED TO ACHIEVE THE EXTERIOR WALL INSULATION VALUE INDICATED IN THE DESIGN GUIDELINES. SEE THE DESIGN GUIDELINES FOR MORE INFORMATION.
 - THE GC SHALL INSTALL ALL WALLS FACING INTO THE SALES AREA TO BE FLAT, WITH NO PROTRUSIONS.
 - THE GC SHALL INSTALL SOUND INSULATION IN THE WALLS SURROUNDING AND SEPARATING THE RESTROOMS. THIS INSULATION SHALL EXTEND FROM THE SLAB TO THE ASSOCIATED CEILING HEIGHT.
 - THE GC SHALL NEW STOREFRONT WINDOWS AND DOORS WHERE SHOWN ON THIS PLAN. THESE SHALL BE DOUBLE GLAZED, INSULATED "E" GLASS. INSTALL THE MULLIONS TO PROVIDE A MINIMUM CLEAR GLASS SPACE OF 48 INCHES IN WIDTH AND 60 INCHES IN HEIGHT. SEE THE DESIGN GUIDELINES FOR MORE INFORMATION.
 - THE GC SHALL INSTALL RESTROOM ACCESSORIES. SEE THE DESIGN GUIDELINES FOR A LISTING OF THOSE ACCESSORIES AND PRODUCT SELECTIONS.
 - SEE THE REFLECTED CEILING PLAN FOR CEILING LAYOUT AND OTHER RELATED INFORMATION.
 - THE GC SHALL INSTALL THE SPECIFIED, 3-SECTIONED, WOOD FRAMED, WINDOW FEATURE IN THE WALL BETWEEN THE SALES AND TINTROOM AREAS. PRIME AND PAINT THE FRAMING. INSTALL CLEAR GLASS IN THE TWO END SECTIONS, LEAVING THE CENTER AS A CASSED OPENING. SEE ELEVATION A1/A300 FOR MORE INFORMATION. SEE THE DESIGN GUIDELINES FOR PRODUCT AND COLOR SELECTIONS.
 - THE GC SHALL INSTALL A PLASTIC LAMINATE WORK COUNTER AND UPPER BOOK SHELF IN THE OFFICE. SHERWIN-WILLIAMS TO PROVIDE WIRE RACEWAY FOR DATA, VOICE, AND POWER ALONG DESK. RACEWAY SHALL BE WIRED USING MINIMUM OF TWO (2) CIRCUITS. SPACE EACH OPENING 2'-0" ON CENTER. ALL RECEPTACLES SHALL BE GRAY. G.C. TO INSTALL RACEWAY SURGE/DECORATOR COVERS AT VOICE/DATA LOCATIONS. VOICE/DATA DEVICES AND WIRING SHALL BE INSTALLED BY OTHERS.
 - THE GC SHALL INSTALL A PRIMED AND PAINTED WOOD CAP AND CROWN MOLDING ON TOP OF THE "T" WALL IN THE COLOR STUDIO AREA AND ON THE PERIMETER WALLS OF THE OFFICE, RESTROOMS AND TINT/SALES WALL. SEE SHEET A300 FOR MORE INFORMATION.
 - THE GC SHALL INSTALL WHITE FRP ON THE WALL BEHIND THE UTILITY SINK AND EYE WASH STATION. THIS FEATURE SHALL EXTEND FROM THE SLAB TO 4 FEET A.F.F. AND TO 2 FEET BEYOND EACH SIDE OF THE EQUIPMENT.
 - THE GC SHALL INSTALL A 1/2 INCH PLYWOOD BACK BOARD BENEATH THE SHEETROCK ON THE END OF THE "T" WALL IN THE SALES AREA TO SUPPORT A FLAT PANEL TELEVISION. SEE VIEW A3/A300 FOR INSTALLATION INSTRUCTIONS.
 - THE GC SHALL PAINT ALL INTERIOR AND EXTERIOR WALLS, DOORS, ROOF DECK, EXPOSED CONDUITS. SHERWIN-WILLIAMS WILL SUPPLY ALL LIQUID PAINT PRODUCTS FOR APPLICATION BY THE LANDLORD/CONTRACTOR. SEE THE PAINTING SCHEMATIC FOR THE LOCATION OF ADJACENT COLORS. SEE THE PAINTING SCHEDULE CONTAINED IN THE DESIGN GUIDELINES FOR PRODUCT AND COLOR SELECTIONS.



LINGLE DESIGN GROUP, INC.
 158 WEST MAIN STREET
 LENA, IL 61048
 815.369.9155
 1764 BLAKE ST
 DENVER, CO 80202
 303.974.5875
 WWW.LINGLEDESIGN.COM



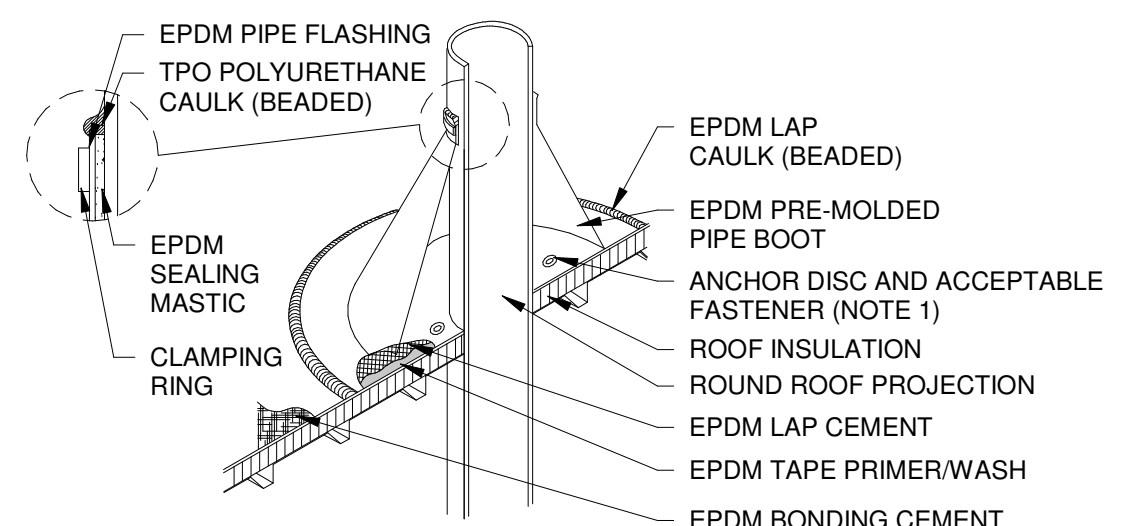
PROJECT #:
 DRAWN BY: BA CHECKED BY: MP
 PERMIT SET - 08/12/2022
 PERMIT COMMENTS - 10/03/2022

SHERWIN WILLIAMS
 STORE #:
 XXXX
 ADDRESS:
 LOT 3, BLOCK "A"
 HIGHWAY 973
 MANOR, TX 78653
 SHEET TITLE:
 Fixture Plan & Schedule
 SHEET NUMBER:

A1 Fixture Plan
 1/4" = 1'-0"

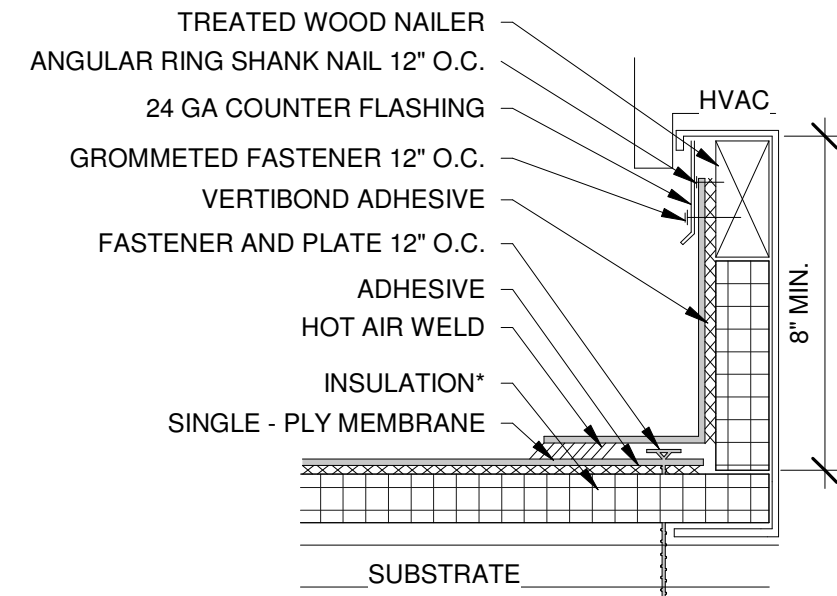
A5 TYPICAL FIRE EXTINGUISHER DETAIL
 1" = 1'-0"

A140



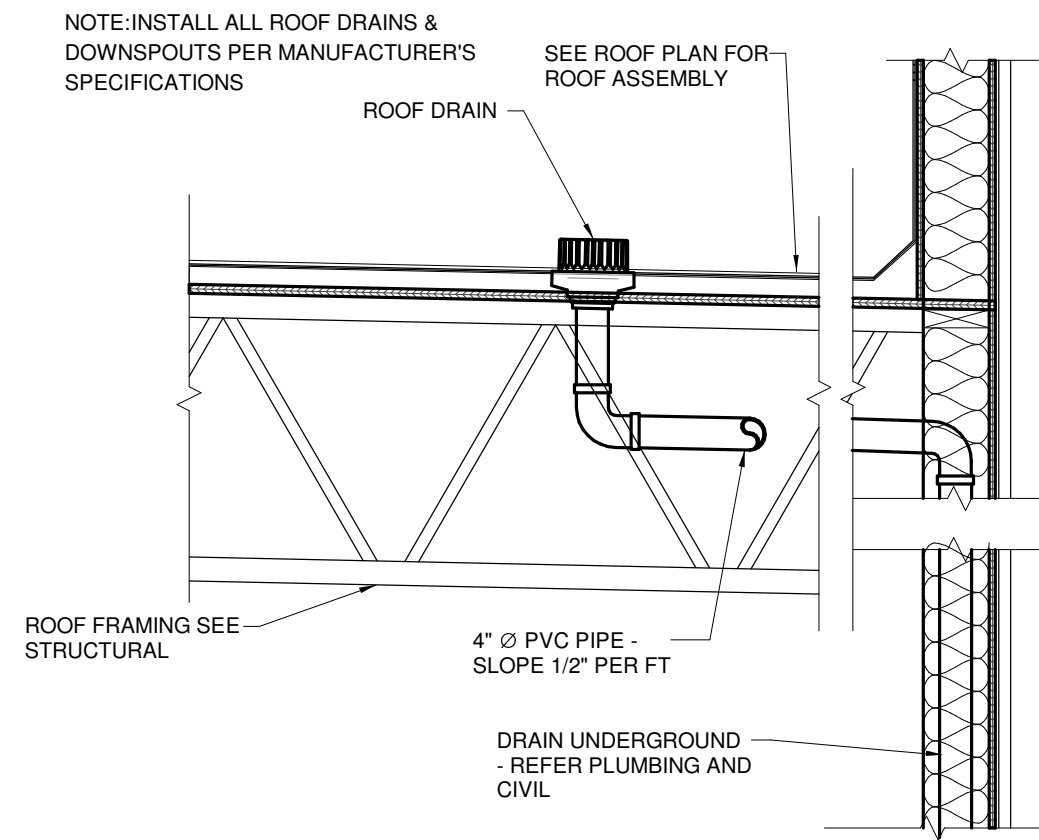
- NOTE:**
1. WITH MECHANICALLY FASTENED OR BALLASTED SPECIFICATIONS, MEMBRANE MUST BE MECHANICALLY ATTACHED WITH 2" (50 mm) ANCHOR DISC AND ACCEPTABLE FASTENERS (MINIMUM OF 4 PER PIPE).
 2. DO NOT OVERLAP THE FLANGES FROM ADJACENT PIPE FLASHINGS.
 3. ANY SEAM UNDER BOOT FLANGE TO BE TREATED AS T-JOINT.
 4. BOTH SURFACES TO BE MATED MUST BE CLEANED WITH TAPE PRIMER/WASH. EPDM TAPE PRIMER/WASH MUST BE COMPLETELY DRY AND TACK FREE BEFORE APPLYING EPDM LAP CEMENT.

D1 TYPICAL BOOT DETAIL
1/4" = 1'-0"

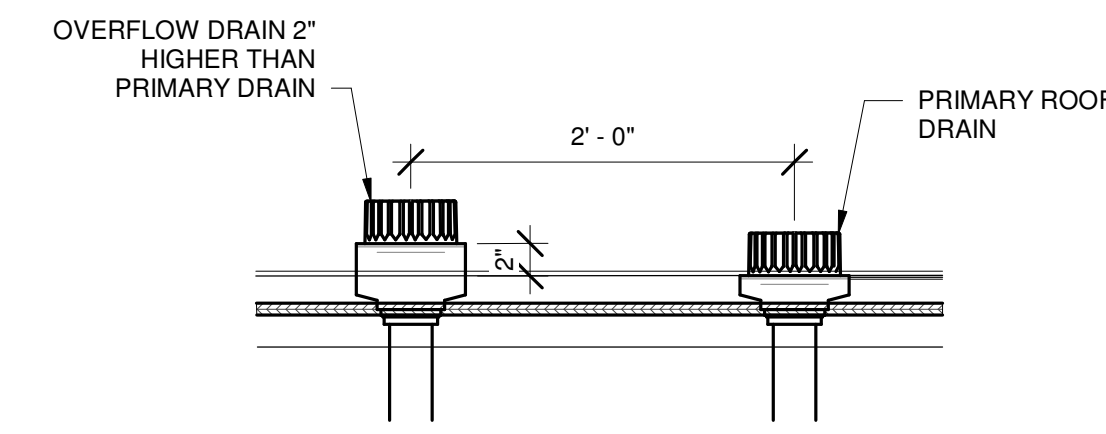


- NOTES:**
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 2. DO NOT SCALE DRAWINGS.
 3. USE PREFABRICATED OUTSIDE CORNERS.
 4. INSULATION MUST BE SECURELY FASTENED.
 5. *GLASS-FACED POLYISO INSULATION IS OPTIONAL AND MAY NOT BE REQUIRED ON EVERY PROJECT. IF INSULATION IS NOT REQUIRED, THE MEMBRANE MUST BE ADHERED TO AN APPROVED SURFACE.

D2 TYPICAL CURB FLASHING
1/4" = 1'-0"

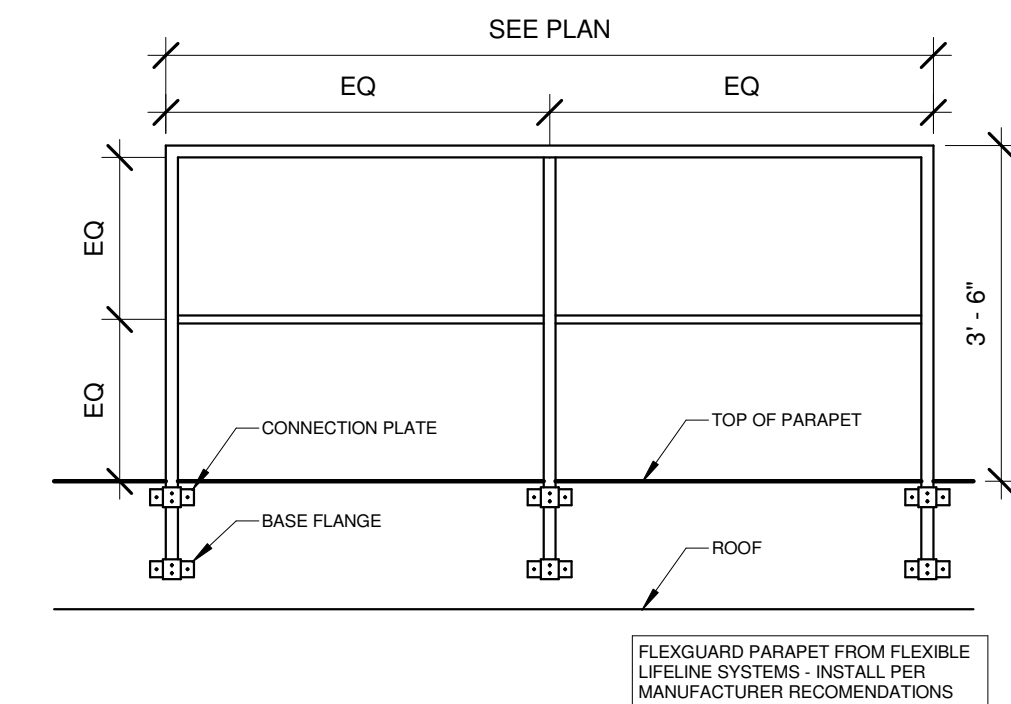


D3 TYPICAL ROOF DRAINAGE
3/4" = 1'-0"

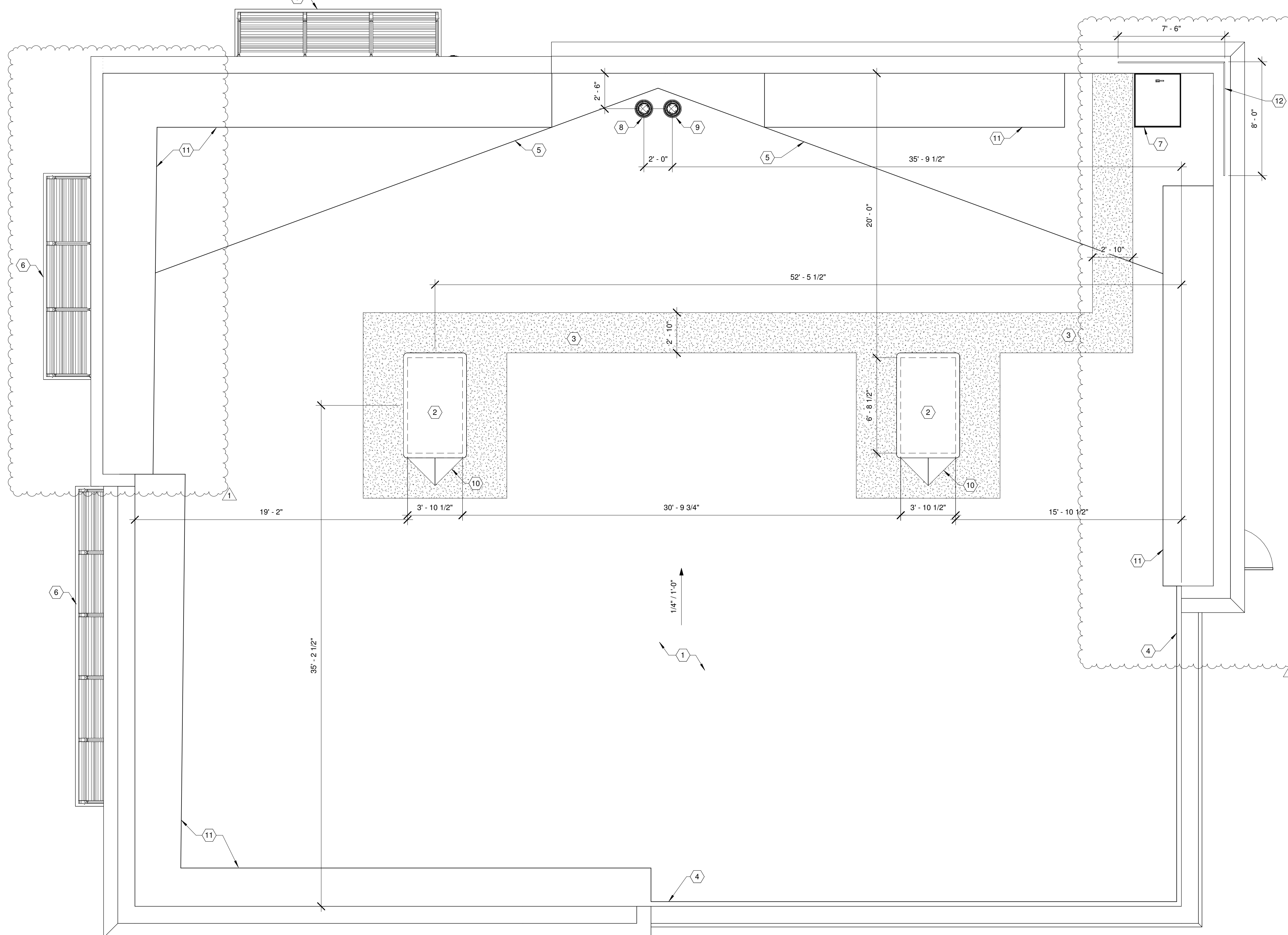


D4 OVERFLOW ROOF DRAIN
1" = 1'-0"

ROOF PLAN CODED NOTES	
1	WHITE (SRI 29 MIN.) 45 MIL TPO MEMBRANE ROOF OVER R-49 RIGID INSULATION - INSTALL PER MANUFACTURER'S SPEC - ROOF DECK PER STRUCTURAL - 2% SLOPE MIN.
2	MECHANICAL ROOFTOP UNIT - SEE MECHANICAL FOR INFORMATION, REINFORCE PER STRUCTURAL
3	REINFORCED WALKWAY FOR EQUIPMENT ACCESS
4	4" CANT STRIP - TYP.
5	SLOPE CRICKET TO ROOF DRAIN
6	AWNING BELOW - SEE DETAIL D1/A113 & EXTERIOR ELEVATIONS
7	ROOF ACCESS HATCH - SEE DETAIL C4/A111 - COORDINATE PLACEMENT WITH STRUCTURAL
8	ROOF DRAIN - J.R. SMITH 1010-A04 (OR EQUIVALENT) - SEE DETAIL D3/A150 - COORDINATE PLACEMENT W/ CIVIL
9	ROOF OVERFLOW DRAIN - J.R. SMITH 1070-A04 (OR EQUIVALENT) - SEE DETAIL D4/A150 - COORDINATE PLACEMENT W/ CIVIL
10	TAPERED INSULATION CRICKET AT EQUIPMENT CURB
11	ROOF KICKERS PER STRUCTURAL
12	GUARDRAILS - SEE DETAIL C5/A150



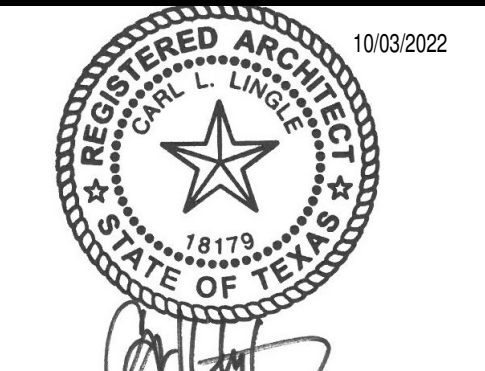
C5 GUARDRAIL
1/2" = 1'-0"



A1 Roof Plan
1/4" = 1'-0"

LINGLE DESIGN GROUP, INC.
158 WEST MAIN STREET
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5875
WWW.LINGLEDESIGN.COM

ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE LINGLE DESIGN GROUP, INC. THEY MAY NOT BE REVISED, COPIED, REPRODUCED, OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.



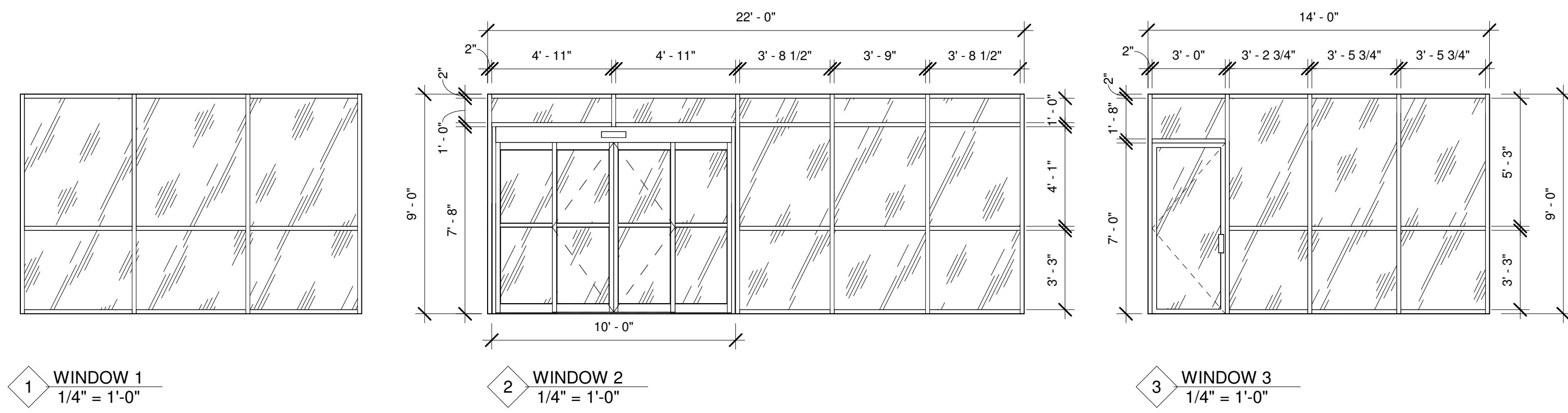
PROJECT #:
DRAWN BY: BA
CHECKED BY: MP

PERMIT SET - 08/12/2022
△ PERMIT COMMENTS - 10/03/2022
△
△
△
△
△

SHERWIN WILLIAMS

STORE #:
XXXX
ADDRESS:
LOT 3, BLOCK "A"
HIGHWAY 973
MANOR, TX 78653

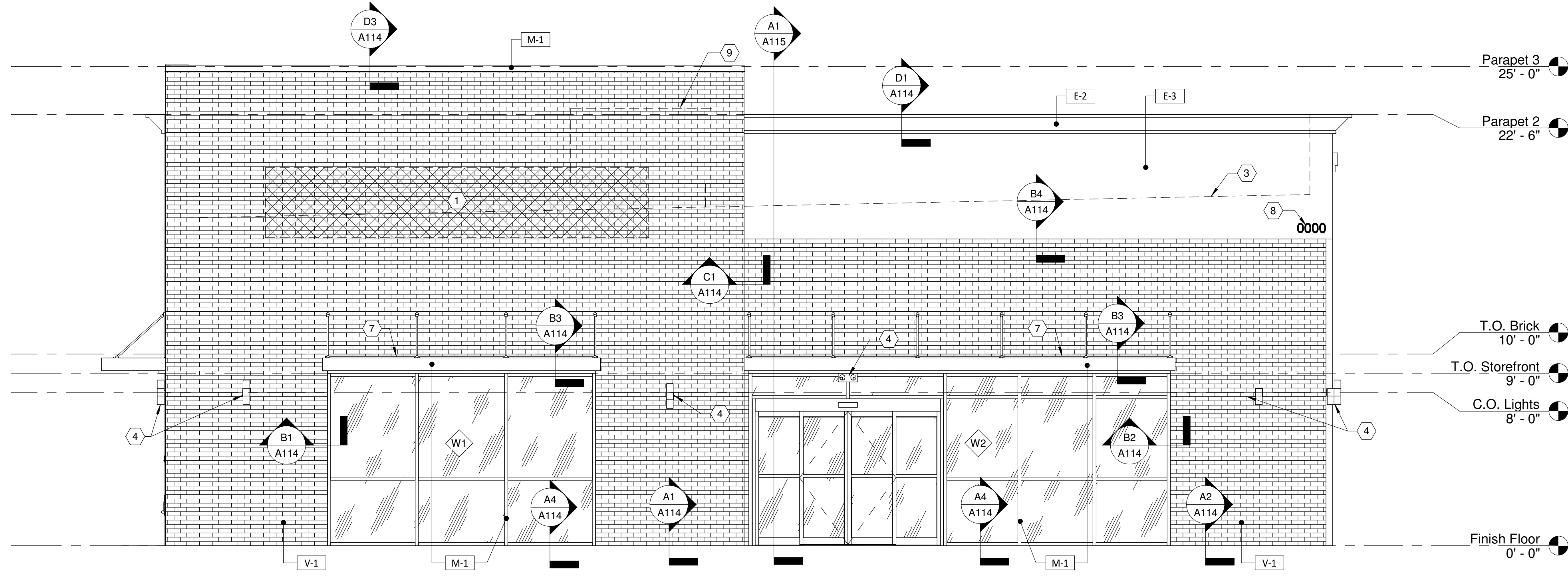
SHEET TITLE:
Roof Plan
SHEET NUMBER:
A150



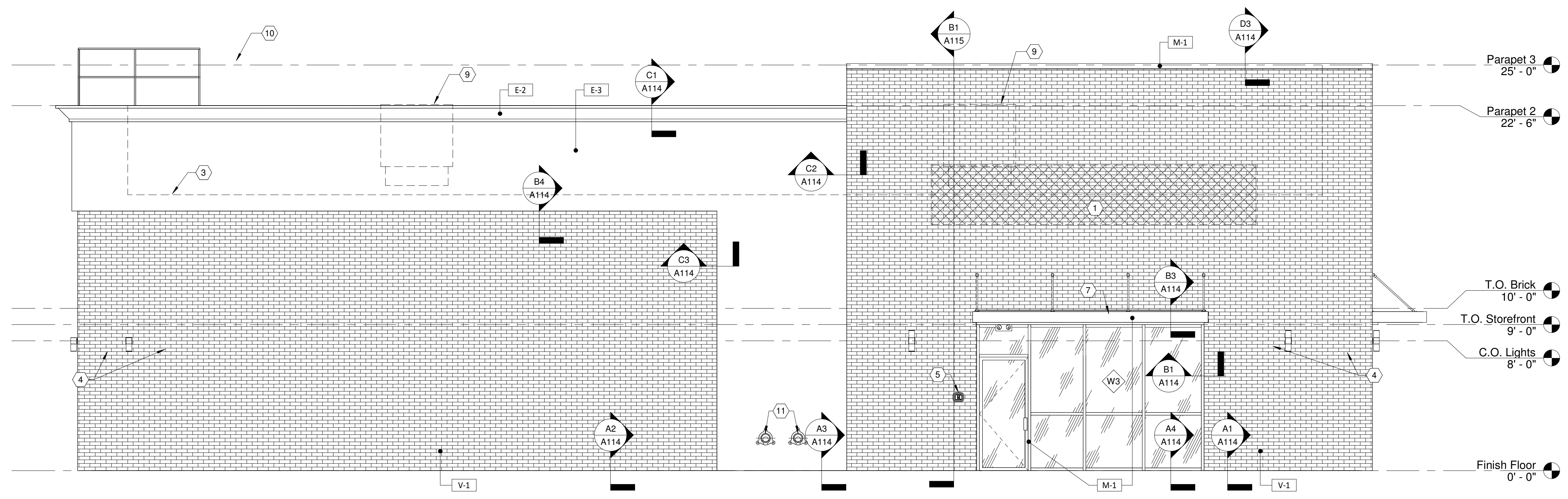
1 WINDOW 1
1/4" = 1'-0"

2 WINDOW 2
1/4" = 1'-0"

3 WINDOW 3
1/4" = 1'-0"



B1 NORTH ELEVATION
1/4" = 1'-0"



A1 EAST ELEVATION
1/4" = 1'-0"

EXTERIOR FINISH SCHEDULE			
MARK	DESCRIPTION	MANUFACTURER & SPEC	SAMPLE
E-1	EIFS - FIELD	SHERWIN-WILLIAMS COLOR: SW 7506 LOGGIA	[Sample]
P-1	PAINT	(SCORE LINES PER ELEVATIONS)	[Sample]
E-2	EIFS - BAY	SHERWIN-WILLIAMS COLOR: SW 6105 DIVINE WHITE	[Sample]
P-2	PAINT	(PARAPET FLASHING TO MATCH)	[Sample]
E-3	EIFS - FIELD	SHERWIN-WILLIAMS COLOR: SW 7025 BACKDROP	[Sample]
P-3	PAINT	(SCORE LINES PER ELEVATIONS)	[Sample]
M-1	ANODIZED ALUMINUM	COLOR: DARK BRONZE (STOREFRONT)	[Sample]
V-1	THIN BRICK	INTERSTATE BRICK SERIES: 2-1/4" THIN BRICK COLOR: DESERT SAND	[Sample]

EXTERIOR ELEVATION CODED NOTES	
1	SIGNAGE UNDER SEPARATE PERMIT
2	UTILITY METER BANK - PAINT TO MATCH ADJACENT FINISH - COORDINATE WITH CIVIL
3	ROOF LINE BEHIND PARAPET
4	EXTERIOR LIGHTING - SEE SCHEDULE ON SHEET A130
5	KNOX BOX - MODEL 3200 RECESSED - COORDINATE PLACEMENT WITH FIRE PREVENTION BUREAU
6	BUZZER BUTTON
7	NEW METAL AWNING - MAPES LUMISHADE (OR EQUIVALENT) - 8" FASCIA
8	BUILDING ADDRESS PER 2018 IFC 505.1 - 4" HIGH MIN., 1/2" MIN. STROKE WIDTH
9	ROOF TOP UNIT BEYOND
10	ROOF ACCESS HATCH GUARDS
11	ROOF DRAIN NOZZLE

LINGLE DESIGN GROUP, INC.
 158 WEST MAIN STREET
 LENA, IL 61048
 815.369.9155
 1764 BLAKE ST
 DENVER, CO 80202
 303.974.5875
 WWW.LINGLEDESIGN.COM

ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE LINGLE DESIGN GROUP, INC. THEY MAY NOT BE REVISED, COPIED, REPRODUCED OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.

REGISTERED ARCHITECT
 PARK L. LINGLE, P.C.
 18175
 STATE OF TEXAS
 10/03/2022

PROJECT #:
 DRAWN BY: BA CHECKED BY: MP

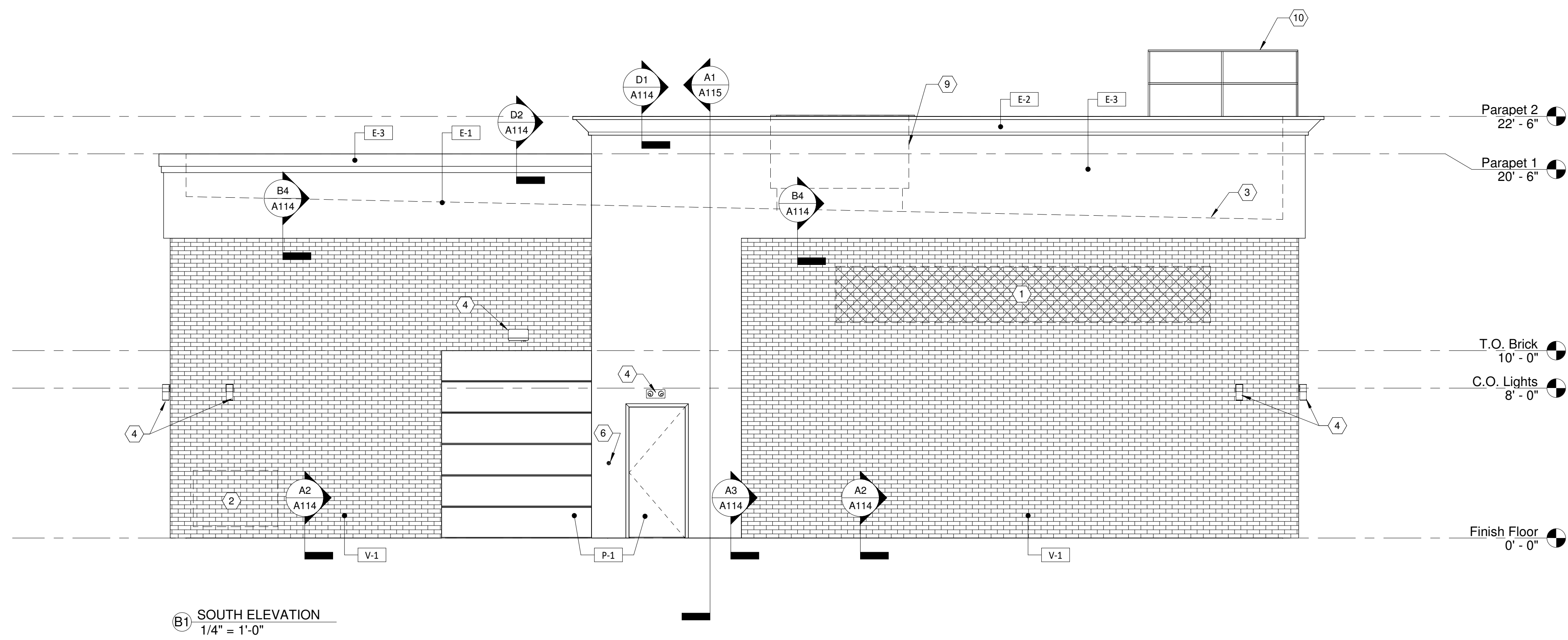
PERMIT SET - 08/12/2022
 PERMIT COMMENTS - 10/03/2022

SHERWIN WILLIAMS

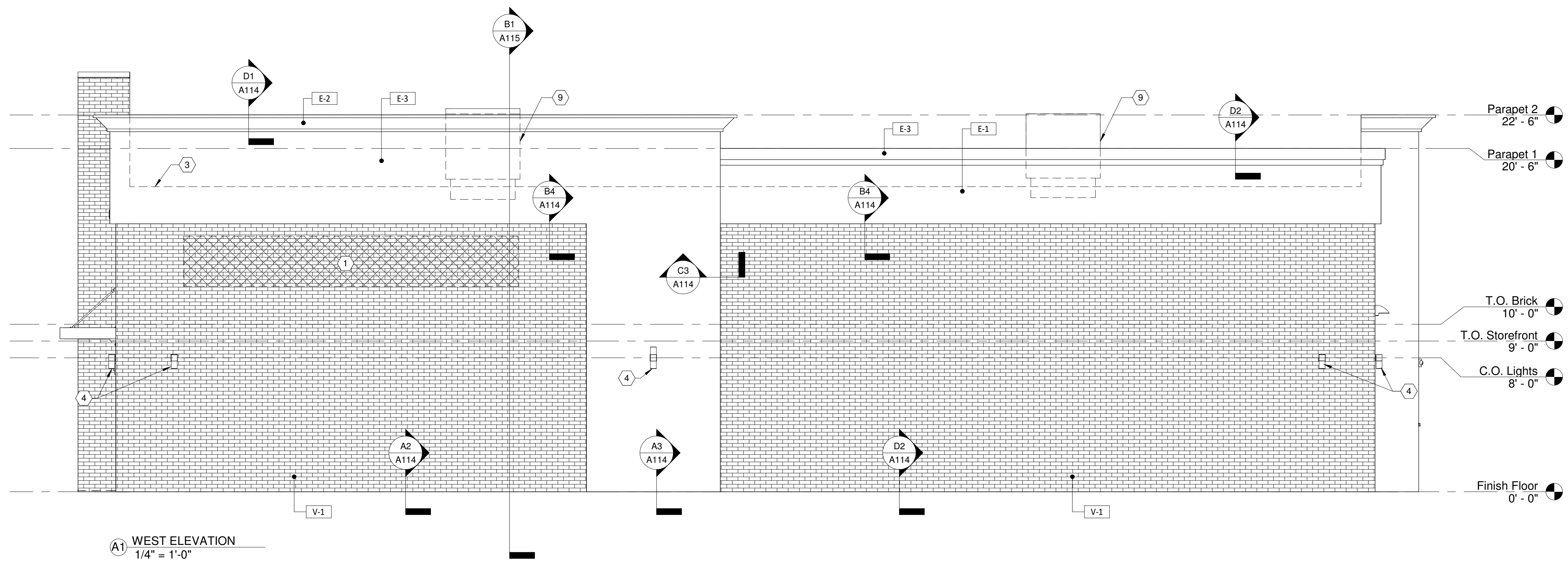
STORE #:
 XXXX
 ADDRESS:
 LOT 3, BLOCK "A"
 HIGHWAY 973
 MANOR, TX 78653

SHEET TITLE:
 Exterior Elevations &
 Window Schedule

SHEET NUMBER:
A200



B1 SOUTH ELEVATION
1/4" = 1'-0"



A1 WEST ELEVATION
1/4" = 1'-0"

EXTERIOR FINISH SCHEDULE			
MARK	DESCRIPTION	MANUFACTURER & SPEC	SAMPLE
E-1	EIFS - FIELD	SHERWIN-WILLIAMS COLOR: SW 7506 LOGGIA (SCORE LINES PER ELEVATIONS)	
P-1	PAINT		
E-2	EIFS - BAY	SHERWIN-WILLIAMS COLOR: SW 6105 DIVINE WHITE (PARAPET FLASHING TO MATCH)	
P-2	PAINT		
E-3	EIFS - FIELD	SHERWIN-WILLIAMS COLOR: SW 7025 BACKDROP (SCORE LINES PER ELEVATIONS)	
P-3	PAINT		
M-1	ANODIZED ALUMINUM	COLOR: DARK BRONZE (STOREFRONT)	
V-1	THIN BRICK	INTERSTATE BRICK SERIES: 2-1/4" THIN BRICK COLOR: DESERT SAND	

EXTERIOR ELEVATION CODED NOTES	
1	SIGNAGE UNDER SEPARATE PERMIT
2	UTILITY METER BANK - PAINT TO MATCH ADJACENT FINISH - COORDINATE WITH CIVIL
3	ROOF LINE BEHIND PARAPET
4	EXTERIOR LIGHTING - SEE SCHEDULE ON SHEET A130
5	KNOX BOX - MODEL 3200 RECESSED - COORDINATE PLACEMENT WITH FIRE PREVENTION BUREAU
6	BUZZER BUTTON
7	NEW METAL AWNING - MAPES LUMISHADE (OR EQUIVALENT) - 8" FASCIA
8	BUILDING ADDRESS PER 2018 IFC 505.1 - 4" HIGH MIN., 1/2" MIN. STROKE WIDTH
9	ROOF TOP UNIT BEYOND
10	ROOF ACCESS HATCH GUARDS
11	ROOF DRAIN NOZZLE

LINGLEDISIGNGROUP, INC
158 WEST MAIN STREET
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5875
WWW.LINGLEDISIGN.COM

ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE LINGLEDISIGN GROUP, INC. THEY MAY NOT BE REVISED, COPIED, REPRODUCED, OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.

10/03/2022

REGISTERED ARCHITECT
L. LINGLEDISIGN
18175
STATE OF TEXAS

PROJECT #:
DRAWN BY: BA CHECKED BY: MP

PERMIT SET - 08/12/2022

△ PERMIT COMMENTS - 10/03/2022

△ -
△ -
△ -
△ -
△ -
△ -

SHERWIN WILLIAMS

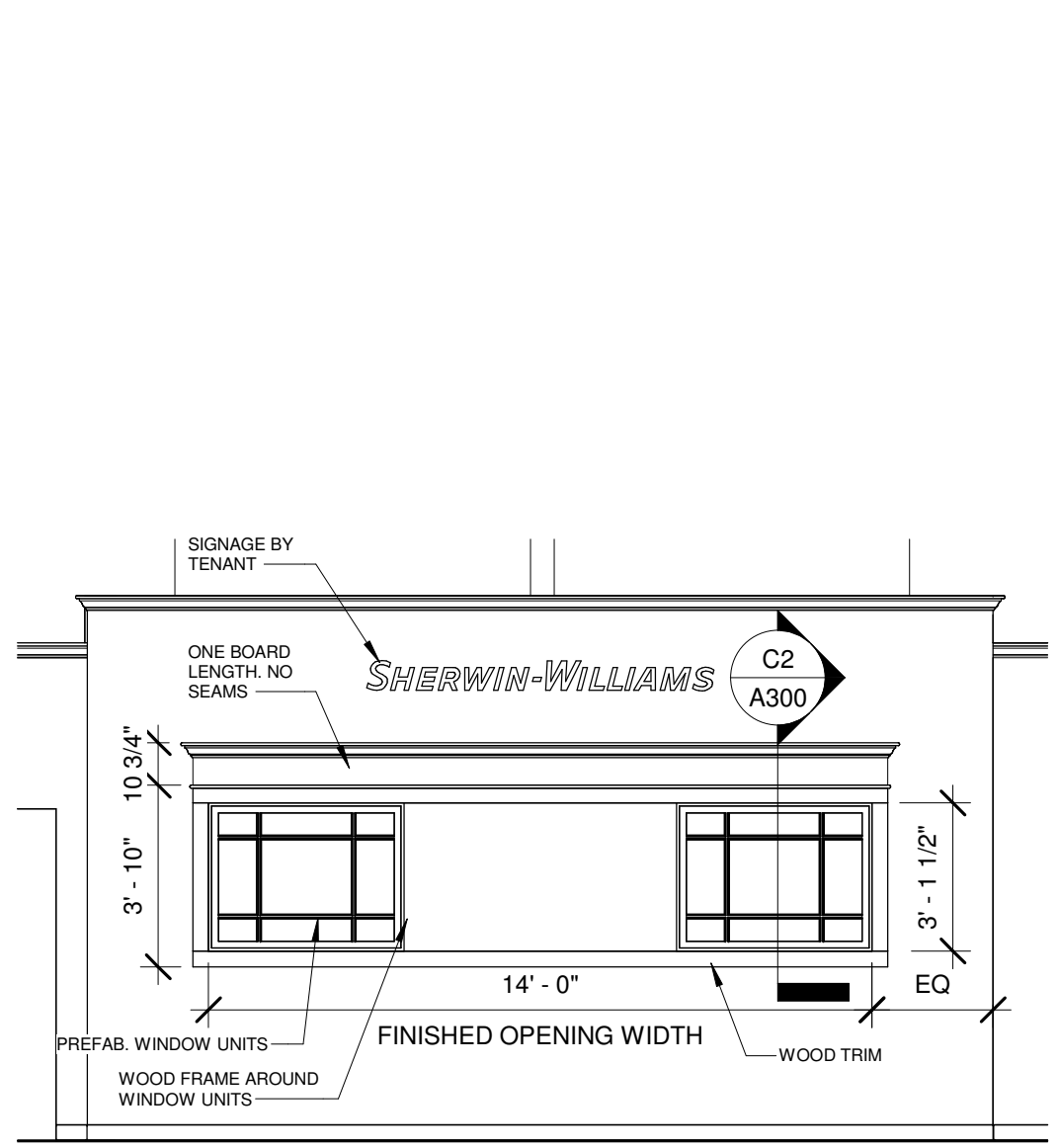
STORE #:
XXXX

ADDRESS:
LOT 3, BLOCK "A"
HIGHWAY 973
MANOR, TX 78653

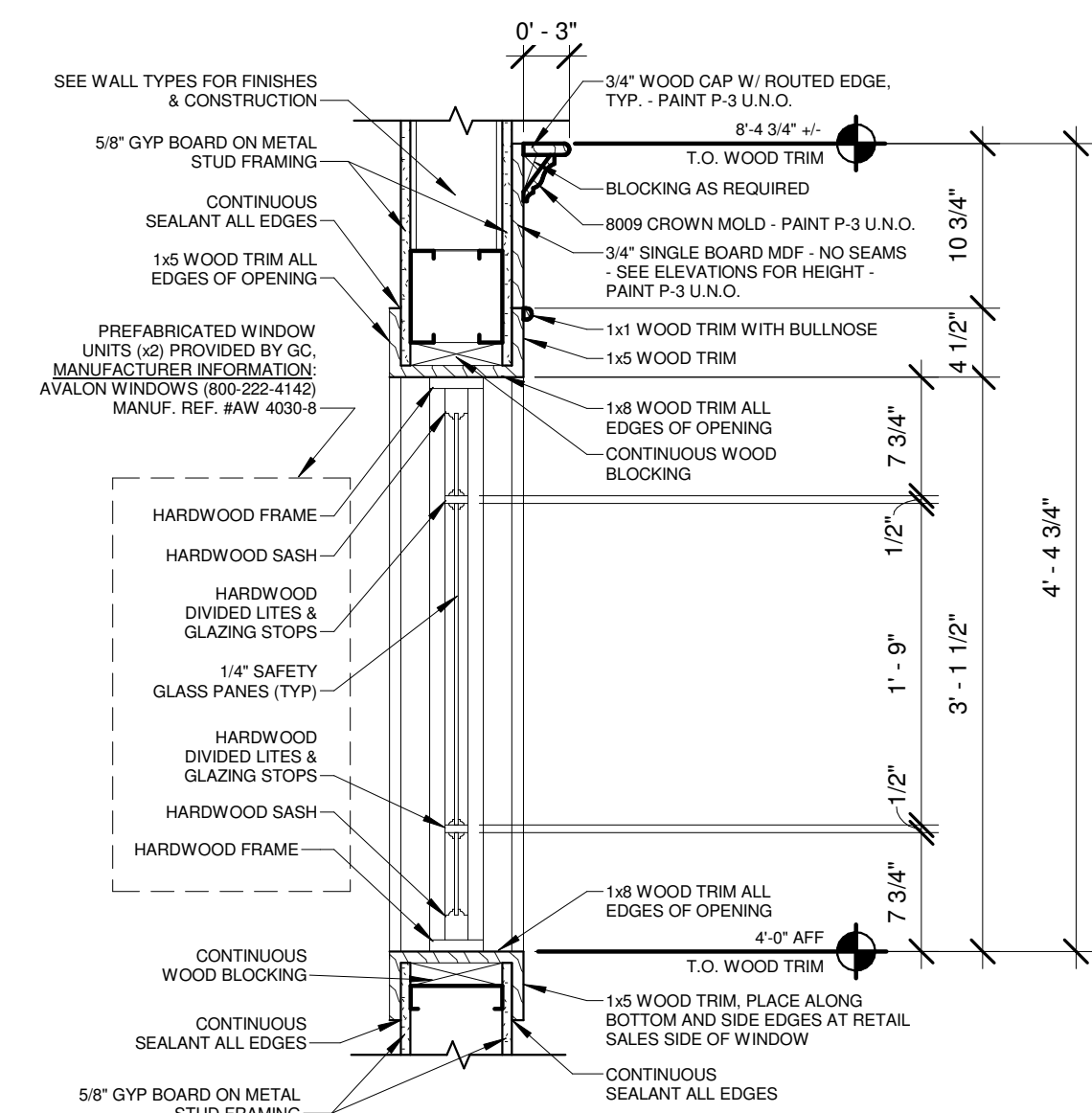
SHEET TITLE:
Exterior Elevations

SHEET NUMBER:
A201

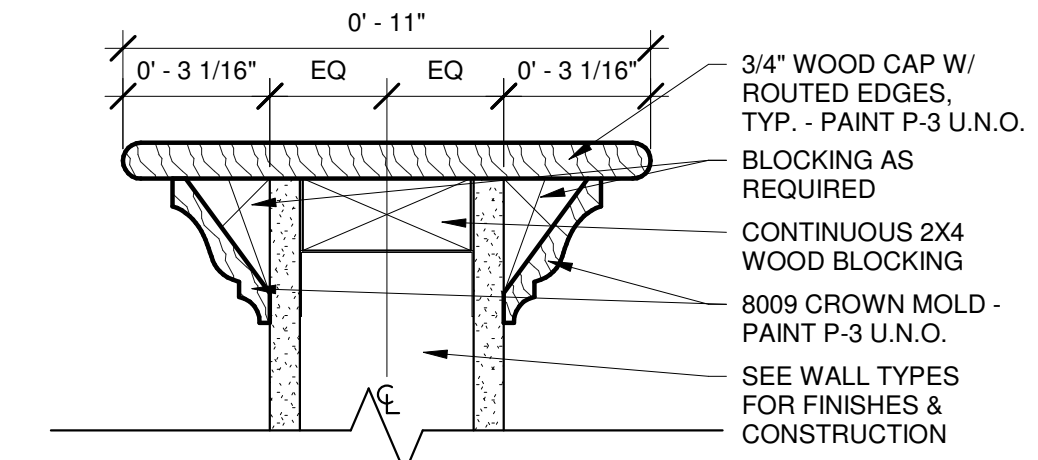
INTERIOR ELEVATION CODED NOTES	
1	3/4" PLYWOOD BACKING BOARD
4	CASED WINDOW BY AVALON - G.C. TO PROVIDE & INSTALL - COORDINATE SPEC W/ SHERWIN-WILLIAMS CORPORATE
5	CONFIRM HVAC DUCTWORK AND DIFFUSER/RETURN LOCATIONS WITH MECHANICAL SHEETS - HOLD DUCTWORK CLOSE TO STRUCTURE



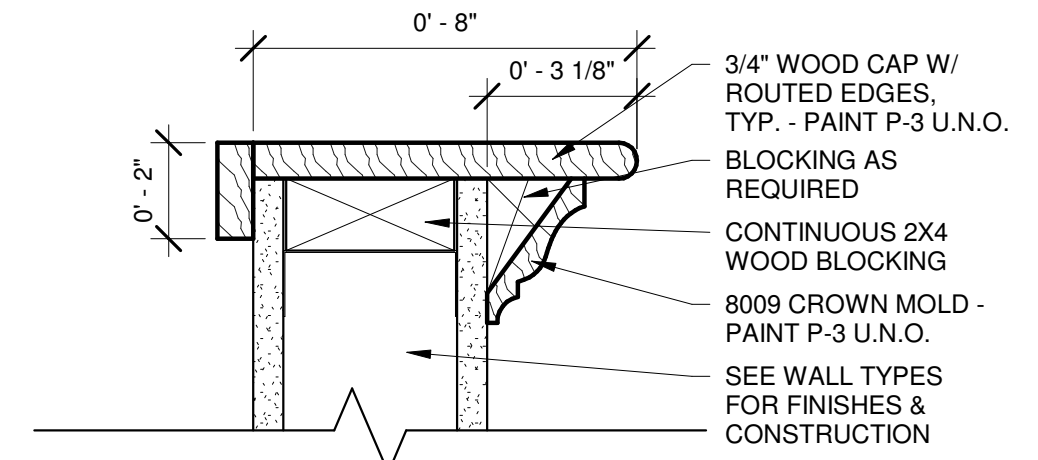
C1 FEATURE WALL
1/4" = 1'-0"



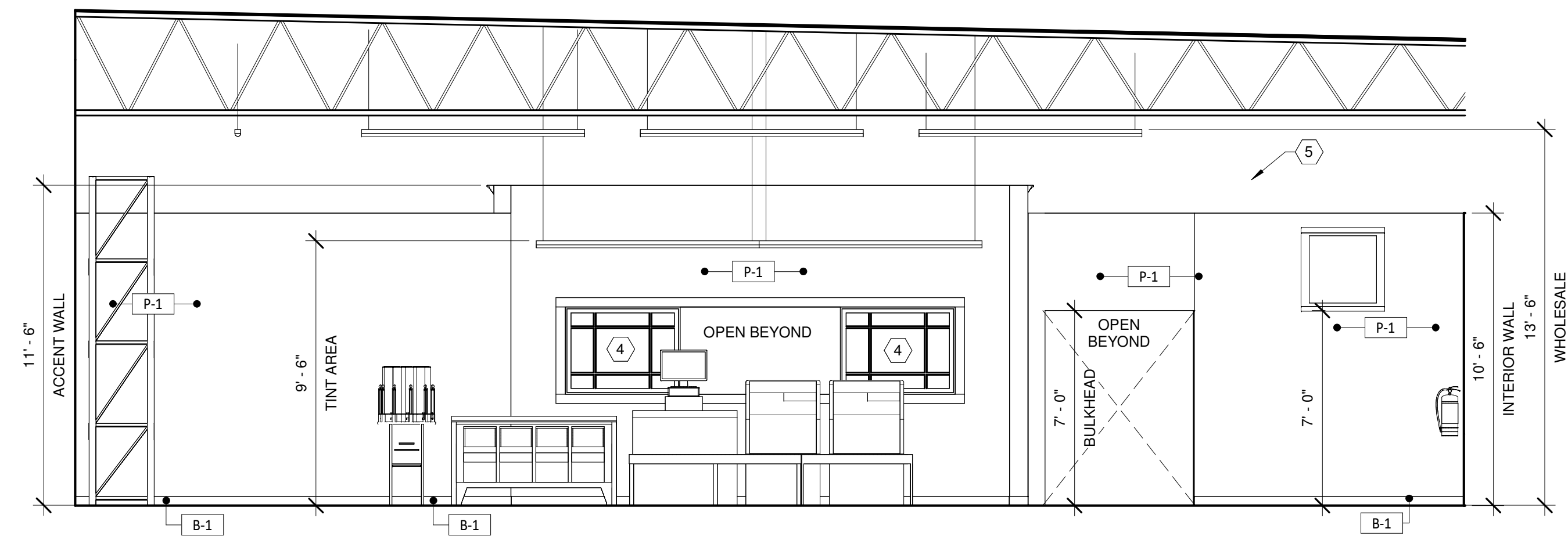
C2 WOOD TRIM (TINT WINDOW)
1" = 1'-0"



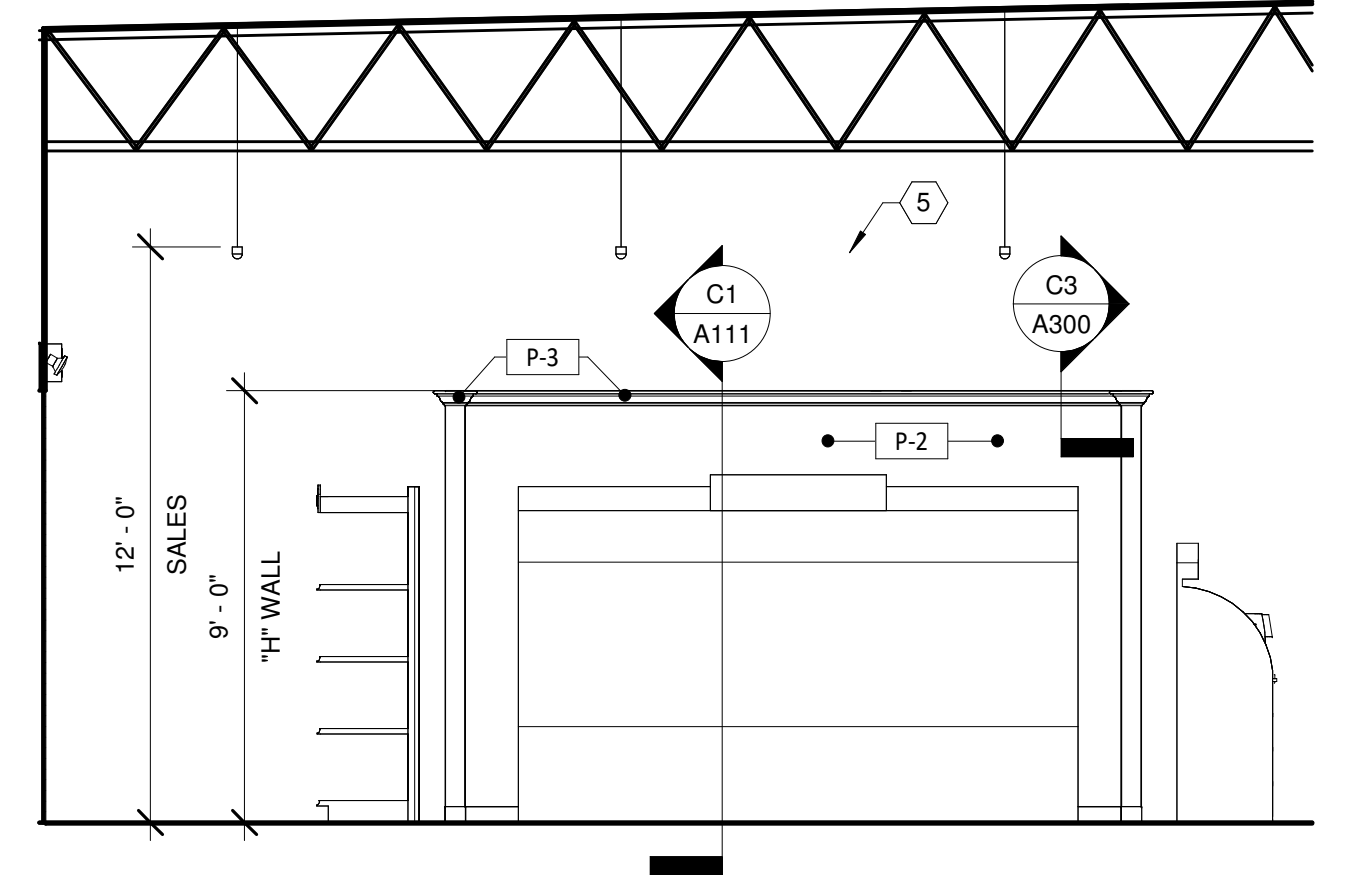
C3 WOOD CAP & TRIM (DOUBLE)
3" = 1'-0"



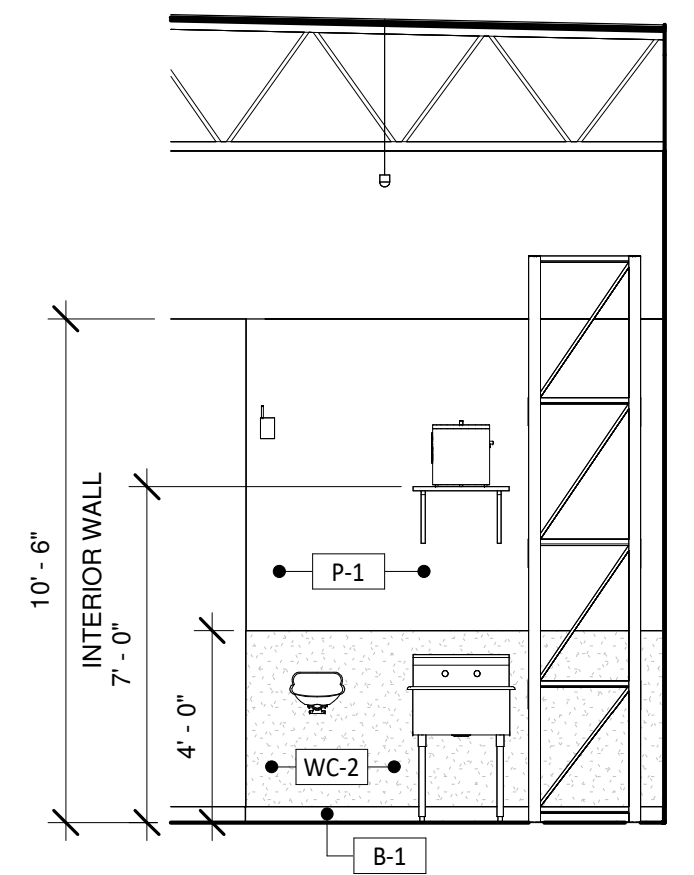
C4 WOOD CAP & TRIM (SINGLE)
3" = 1'-0"



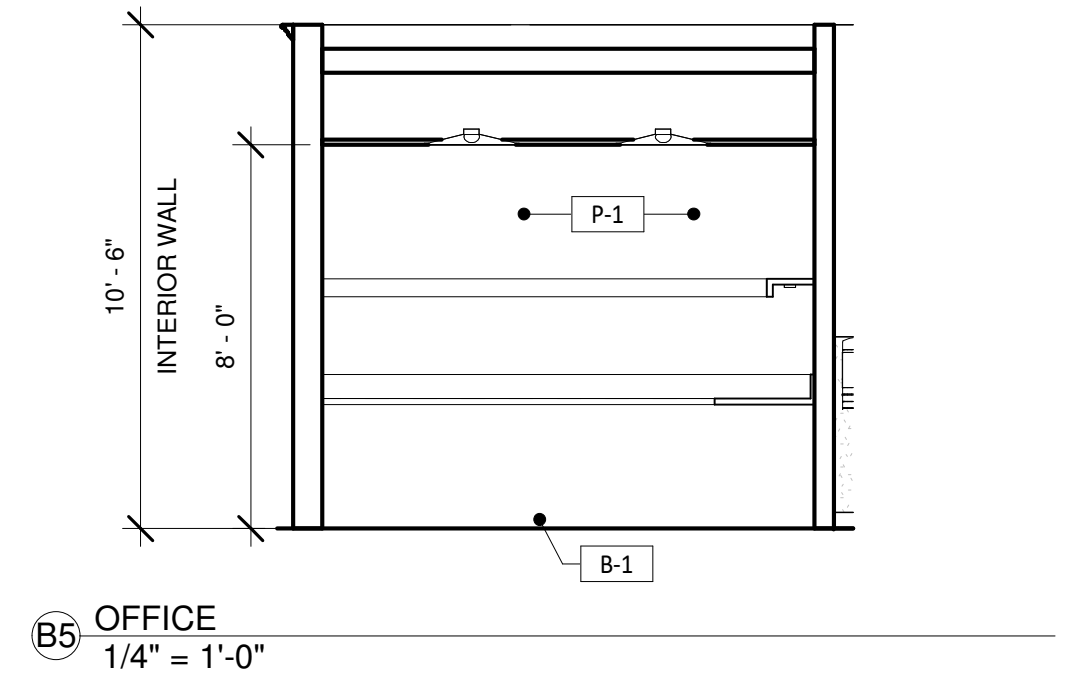
B1 UTILITY SINK / TINT AREA
1/4" = 1'-0"



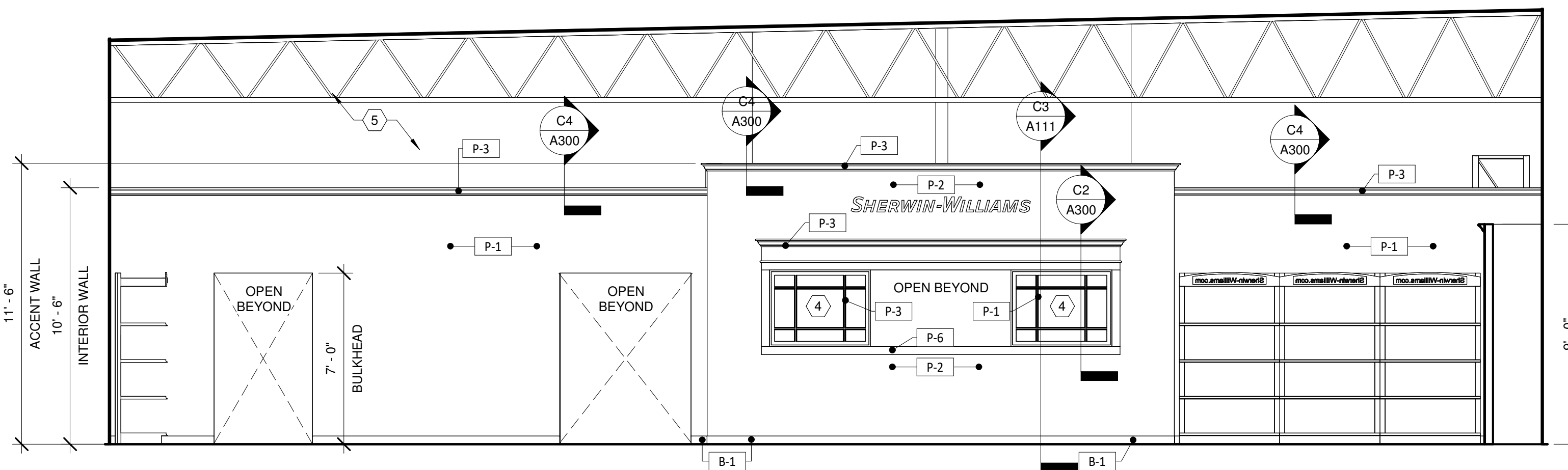
B3 SALES AREA
1/4" = 1'-0"



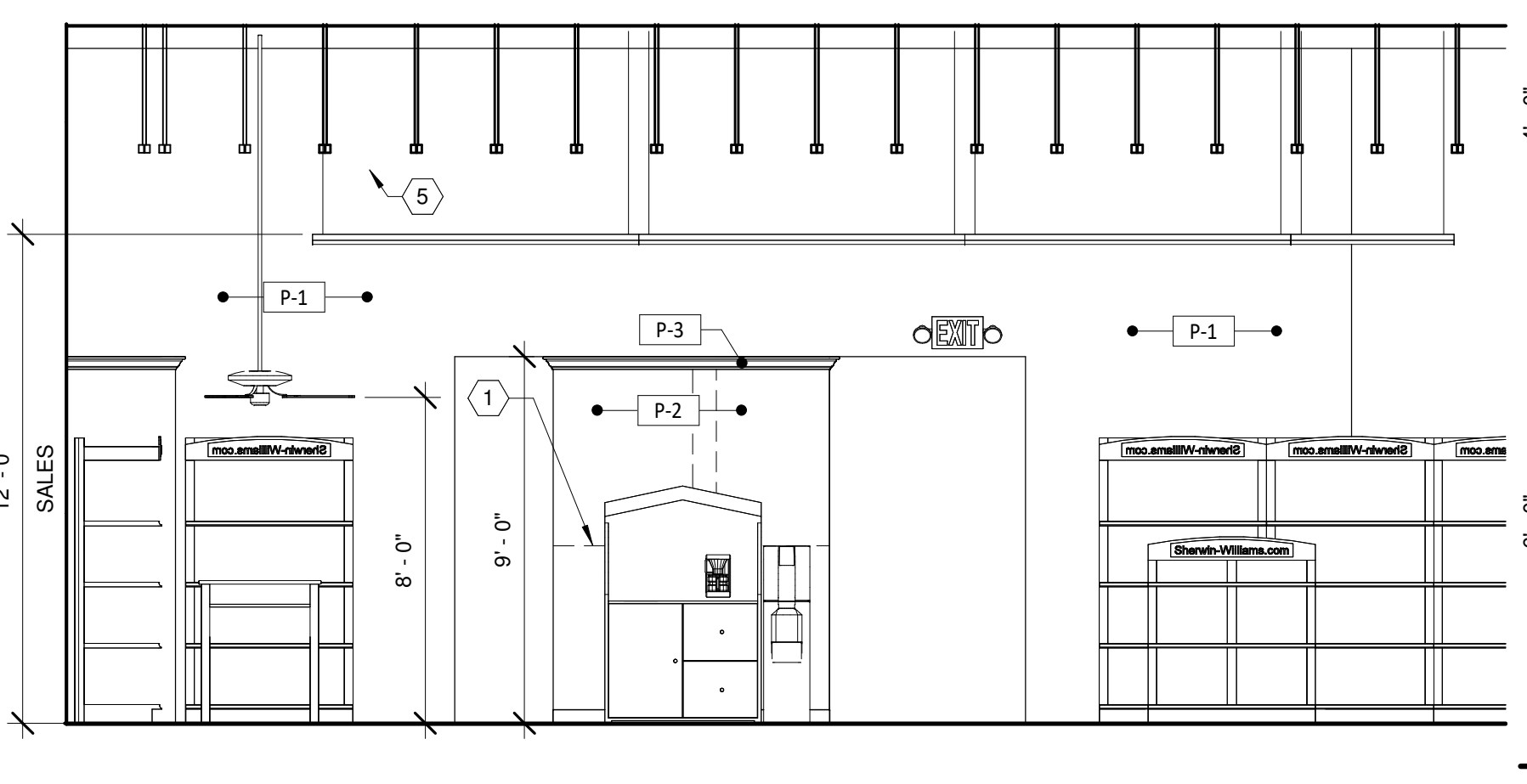
B4 WALL @ EYE WASH
1/4" = 1'-0"



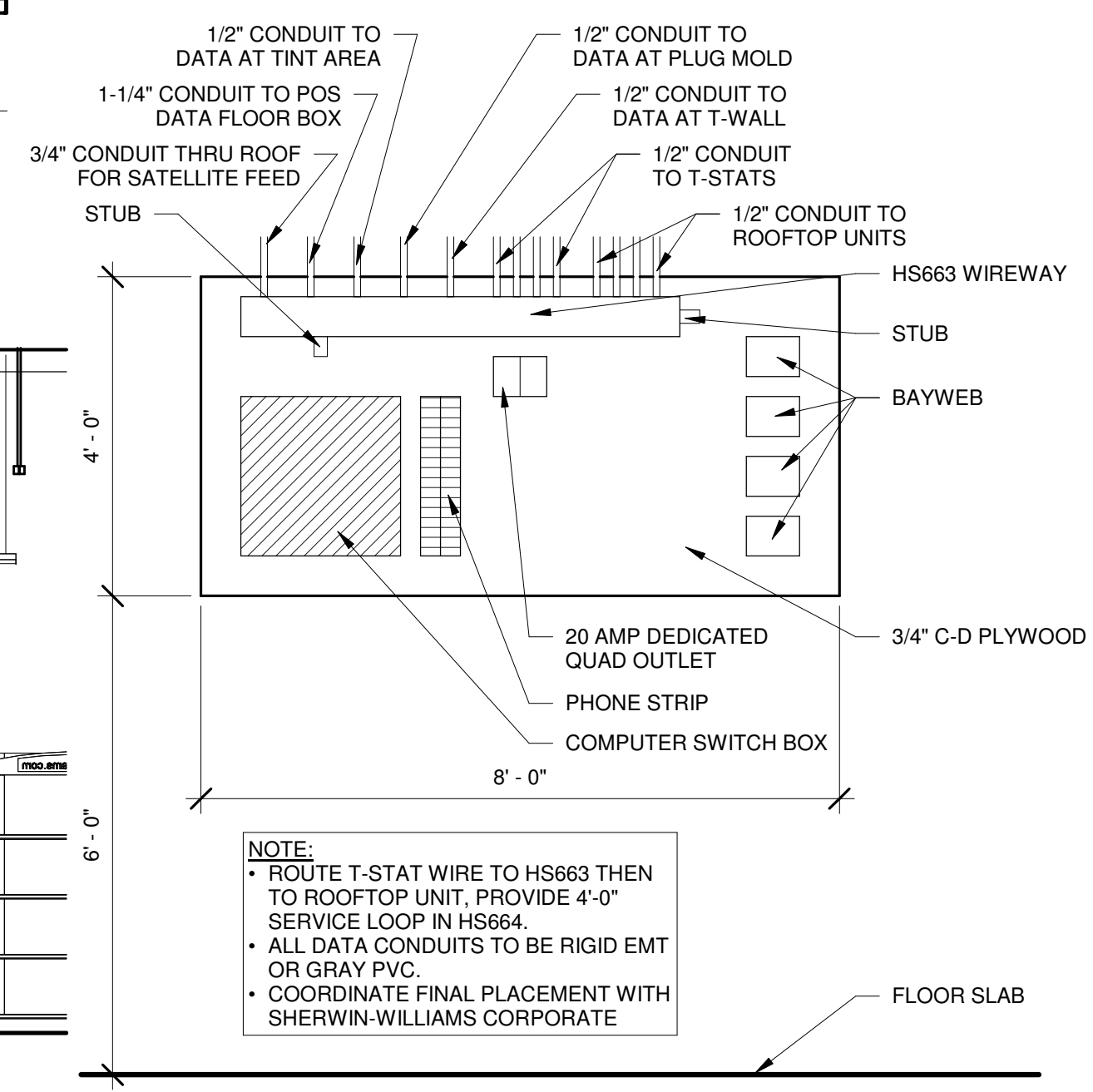
B5 OFFICE
1/4" = 1'-0"



A1 SALES AREA / ACCENT WALL
1/4" = 1'-0"



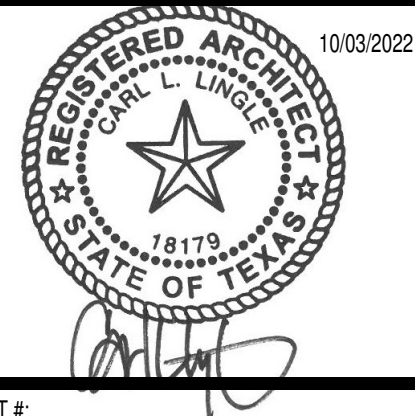
A4 SALES AREA
1/4" = 1'-0"



A5 DATA SWITCH BOARD
1/2" = 1'-0"

LINGLEDISIGNGROUP, INC
158 WEST MAIN STREET
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5875
WWW.LINGLEDISIGN.COM

ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE LINGLEDISIGN GROUP, INC. THEY MAY NOT BE REVISED, COPIED, REPRODUCED OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.



PROJECT #:
DRAWN BY: BA
CHECKED BY: MP

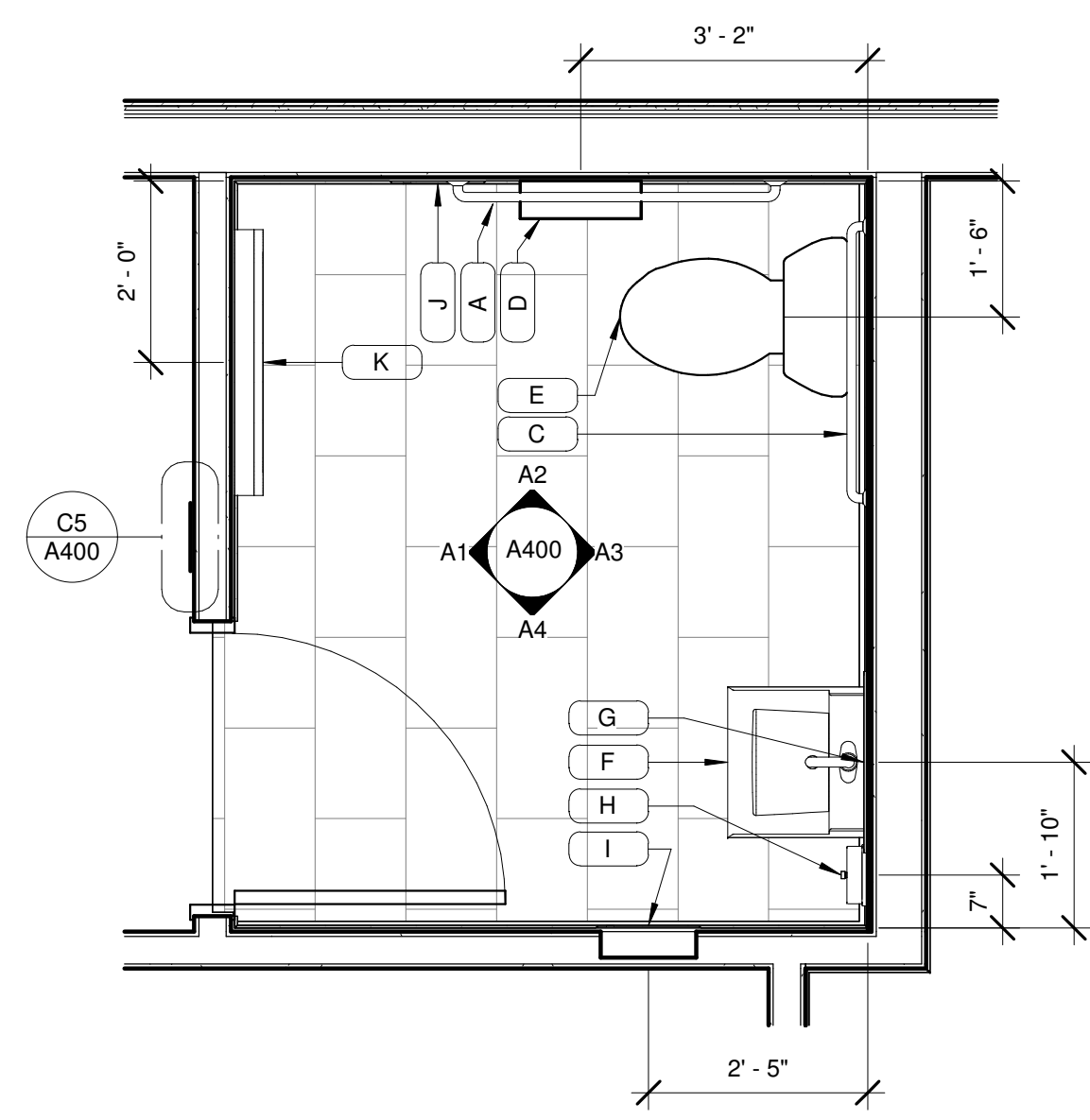
PERMIT SET - 08/12/2022
△ PERMIT COMMENTS - 10/03/2022
△
△
△
△
△

SHERWIN WILLIAMS

STORE #:
XXXX
ADDRESS:
LOT 3, BLOCK "A"
HIGHWAY 973
MANOR, TX 78653

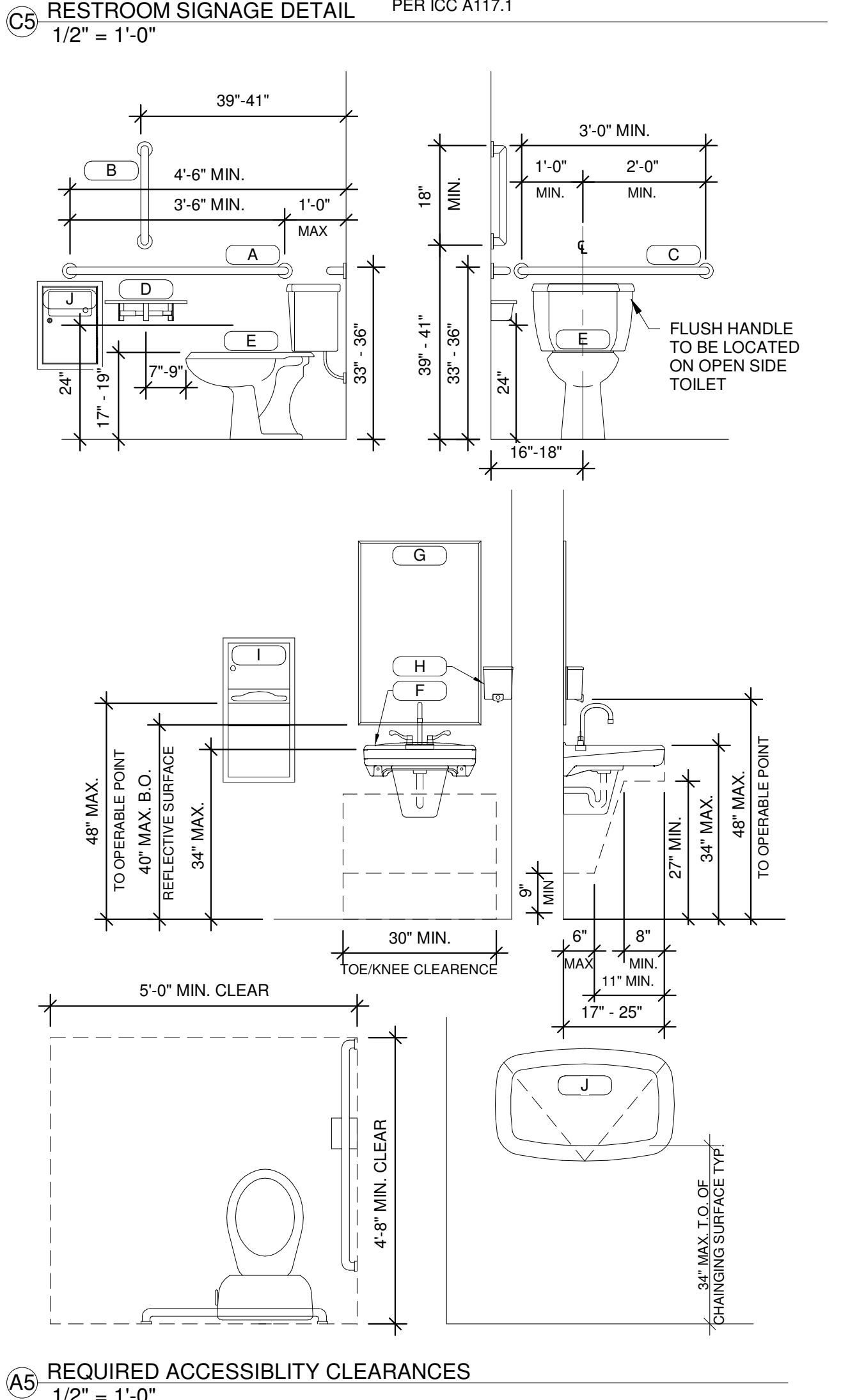
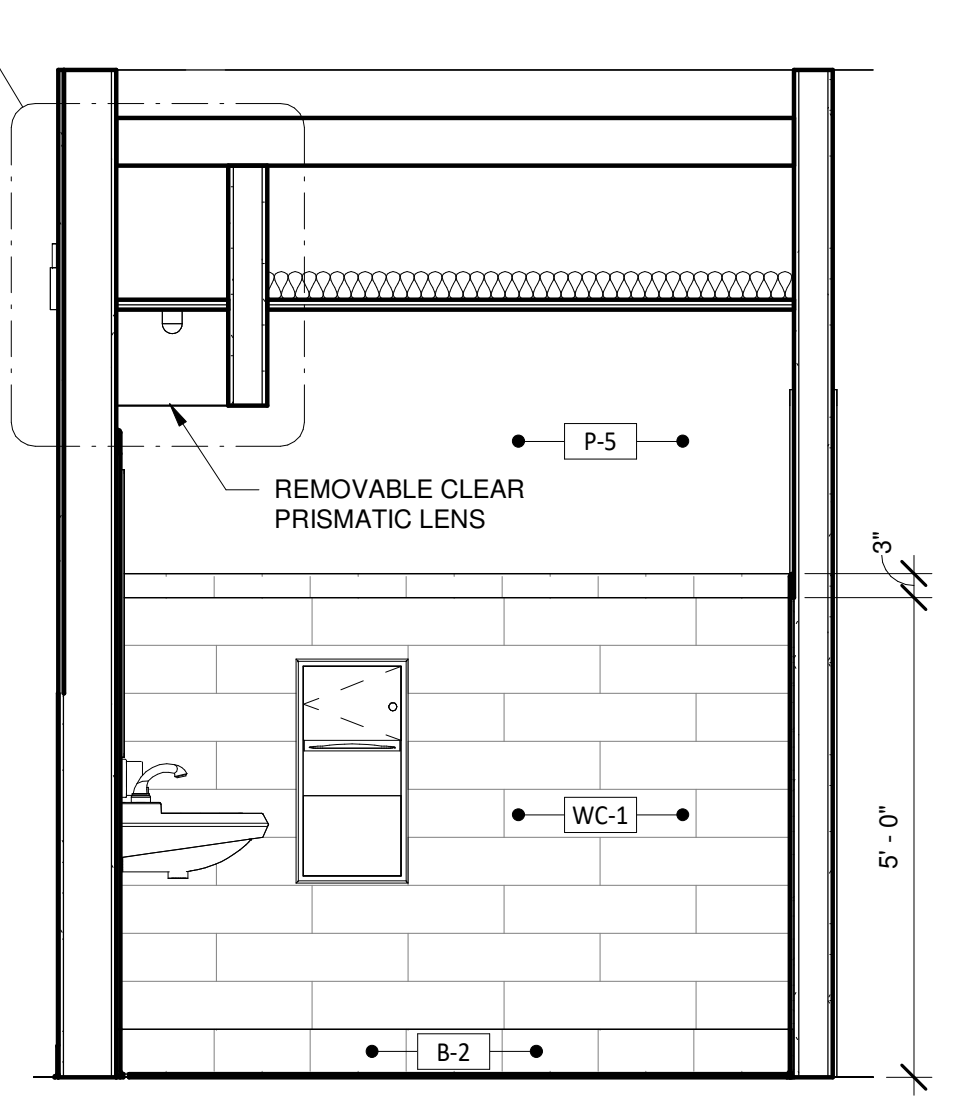
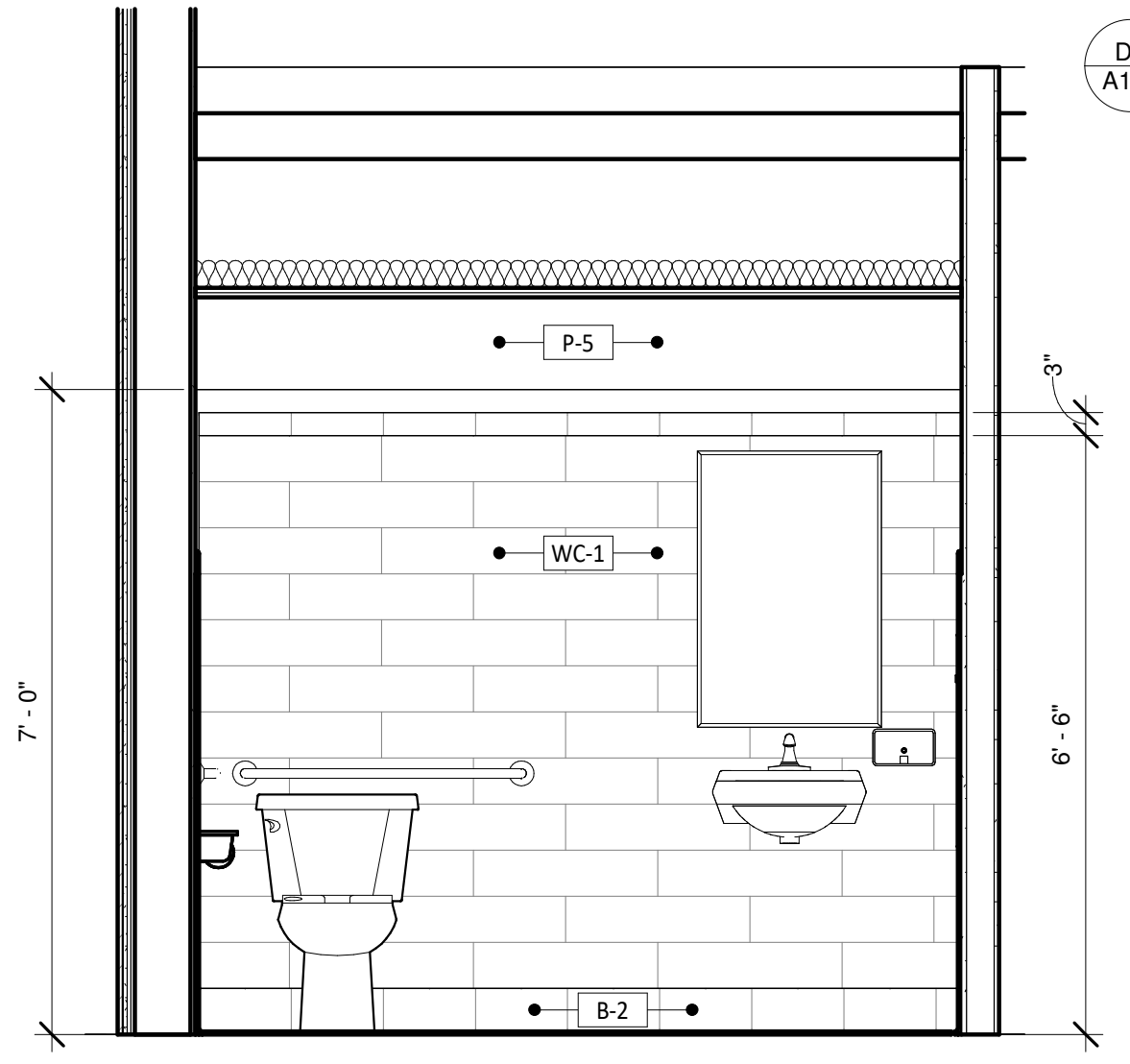
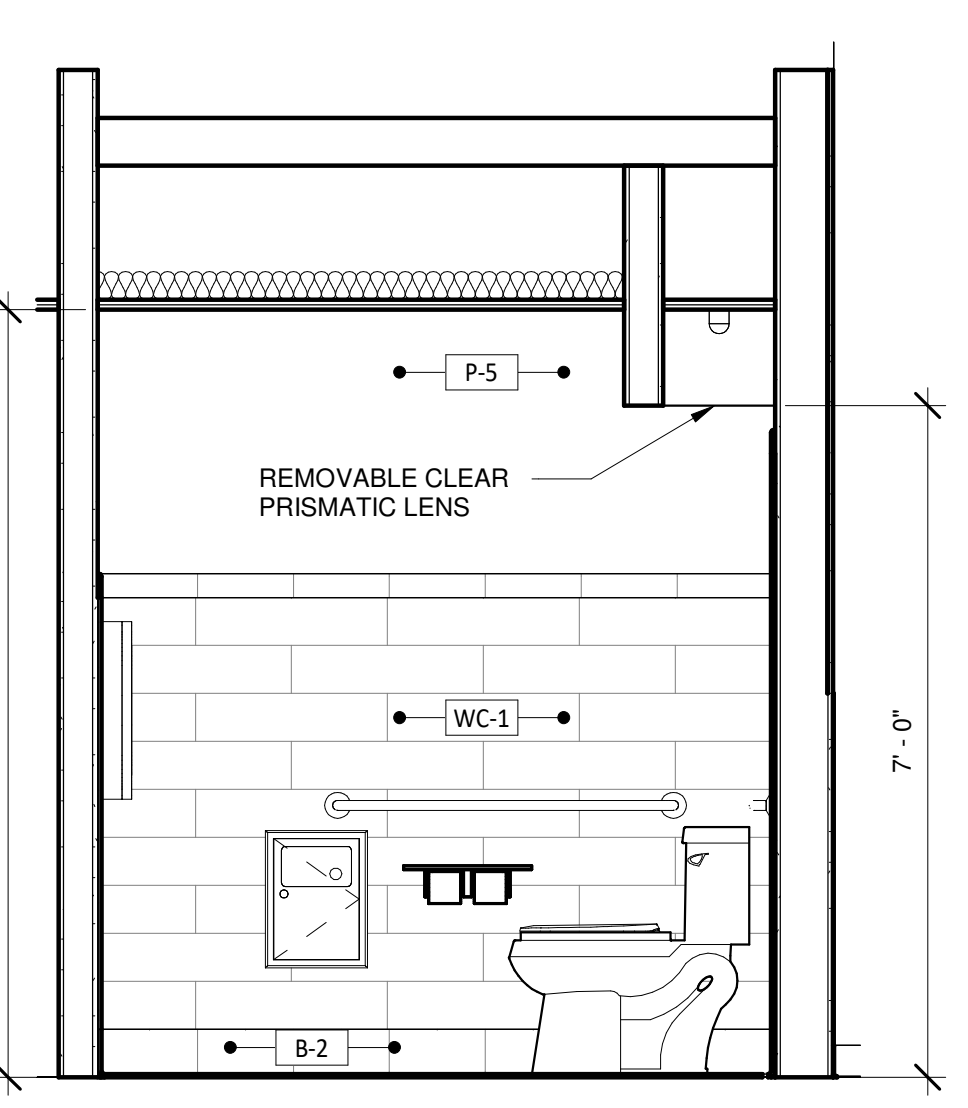
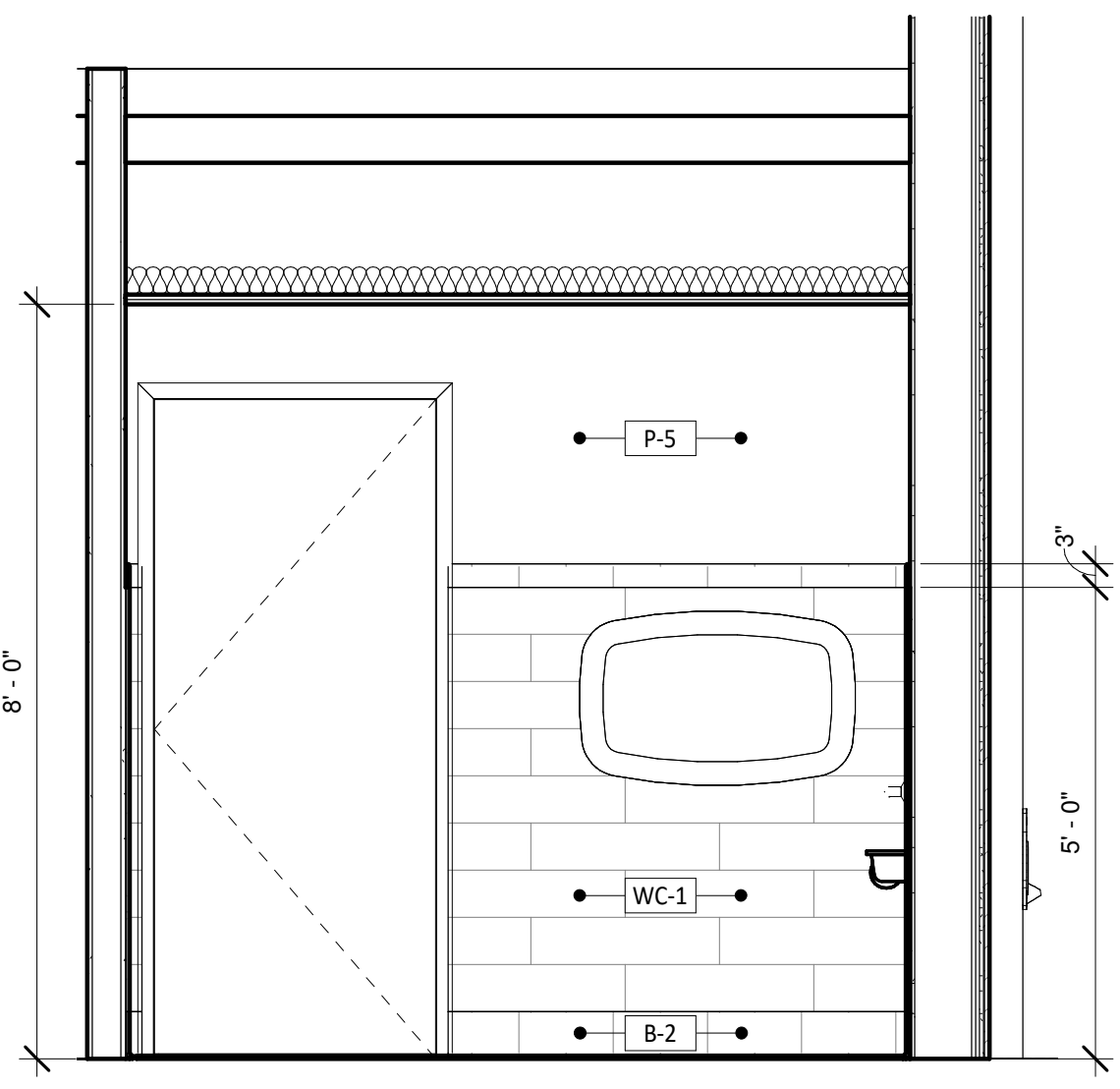
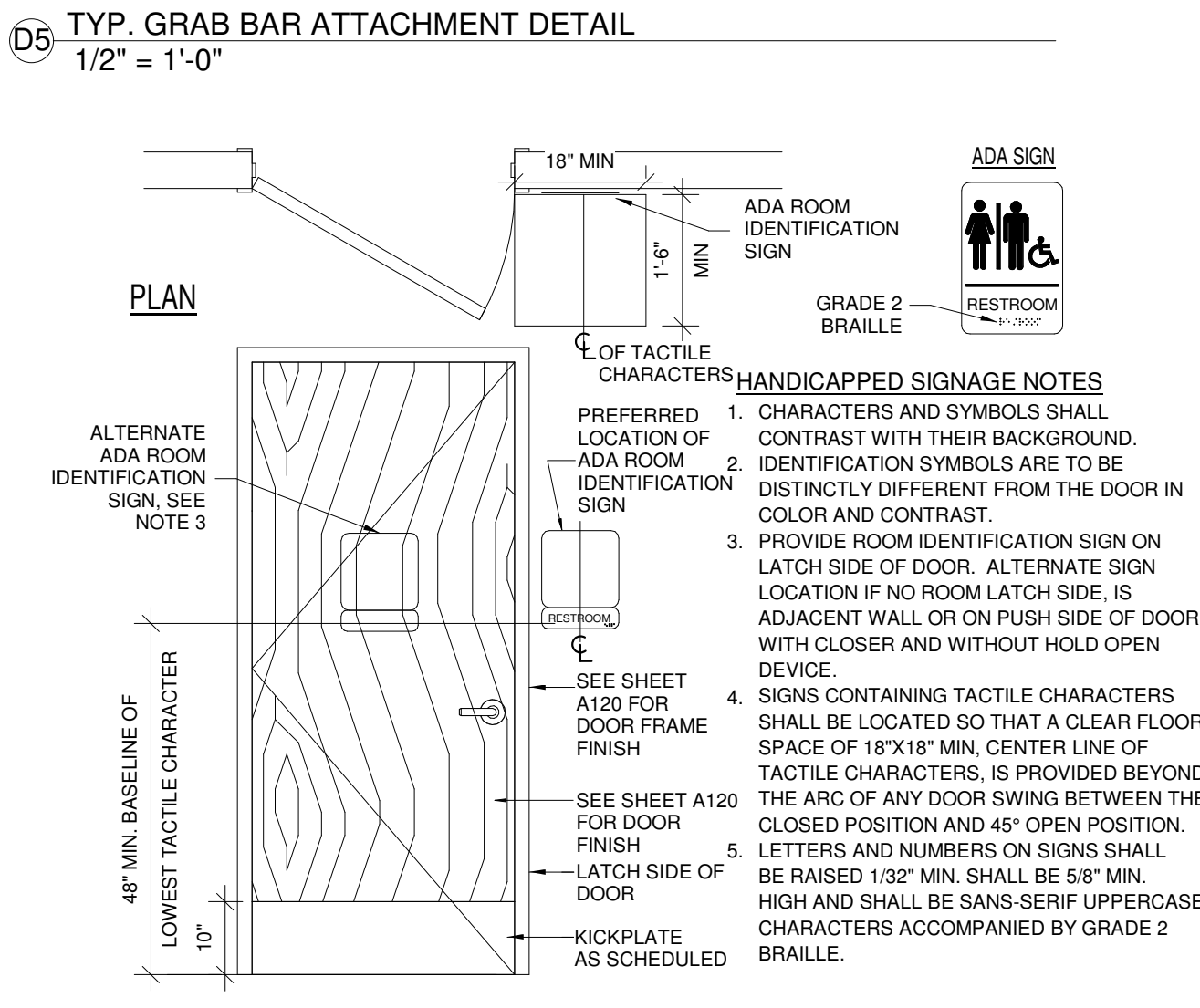
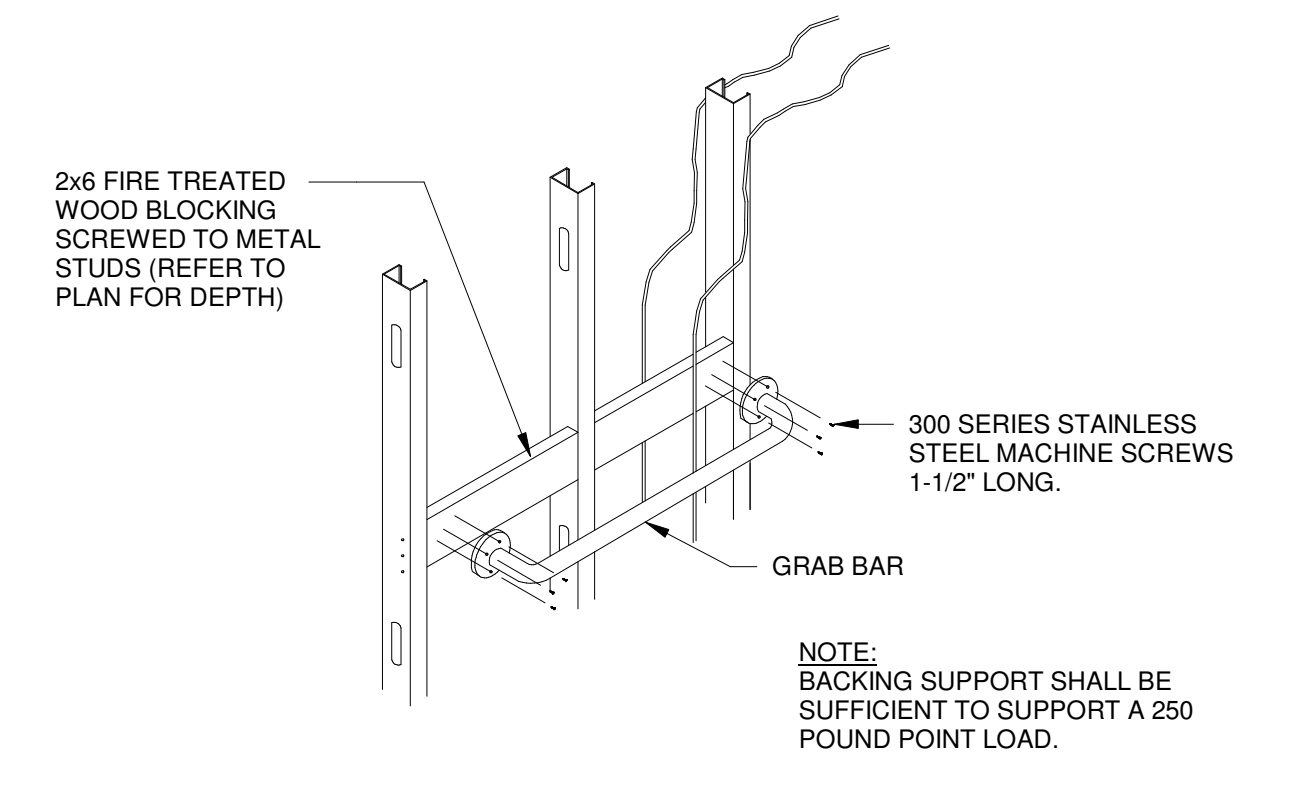
SHEET TITLE:
Interior Elevations

SHEET NUMBER:
A300



RESTROOM FIXTURE SCHEDULE					
TAG	DESCRIPTION	MANUFACTURER	MODEL	REMARKS	PROVIDED/INSTALLED BY
A	42" GRAB BAR	BOBRICK	B-6808 X 42	(1) 2X6 4'-0" LONG CENTER MOUNTED @ 33" A.F.F. TO CENTER OF SUPPORT GRAB BAR - SEE DETAIL D5/A400	GC
C	36" GRAB BAR	BOBRICK	B-6808 X36	(1) 2X6 4'-0" LONG CENTER MOUNTED @ 33" A.F.F. TO CENTER OF SUPPORT GRAB BAR - SEE DETAIL D5/A400	GC
D	TOILET TISSUE DISPENSER	BOBRICK	B-2840	INSTALL BLOCKING PER MANUFACTURER RECOMMENDATIONS	TENANT
E	WATER CLOSET	KOHLER	K-3519 WHITE	1 GALLON PER FLUSH - SEAT: KOHLER LUSTRA K-4650 WHITE	GC
F	LAVATORY	AMERICAN STANDARD	COMRADE 0124.024.020 WHITE	INTEGRATED PLUMBING SHROUD - FAUCET: BRADLEY S53-315 *AERADA 1200 Series CS FAUCET* - PLUG-IN ADAPTER, CAPACITIVE SENSING ACTIVATION NO SUBSTITUTIONS.	GC
G	MIRROR	BOBRICK	B-165 2436	INSTALL BLOCKING PER MANUFACTURER RECOMMENDATIONS	GC
H	SOAP DISPENSER	BOBRICK	B-2112		TENANT
I	PAPER TOWEL DISPENSER	BOBRICK	B-396	INSTALL BLOCKING PER MANUFACTURER RECOMMENDATIONS	TENANT
J	SANITARY NAPKIN DISPOSAL	BOBRICK	B-353		
K	BABY CHANGING STATION	BOBRICK	KB200-01	INSTALL BLOCKING PER MANUFACTURER RECOMMENDATIONS	

- ### GENERAL NOTES
- ALL FIXTURES & ACCESSORIES MUST MEET ALL NATIONAL AND LOCAL CODES AND ADA REQUIREMENTS. PROVIDE SOLID FIRE TREATED BLOCKING AT ALL WALL MOUNTED FIXTURES FOR SECURE ANCHORING. VERIFY LOCATION WITH MANUFACTURERS SPECIFICATIONS. CLEAR SILICONE CAULK ALL FIXTURES TO PARTITION.
 - WATER CLOSET AND URINAL FLUSH VALVE CONTROLS, AND FAUCET AND OPERATING MECHANISM CONTROLS, SHALL BE OPERABLE WITH ONE HAND, SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST, AND SHALL BE MOUNTED NO MORE THAN 44" ABOVE THE FLOOR.
 - THE FORCE REQUIRED TO ACTIVATE WATER CLOSET AND URINAL FLUSH VALVE CONTROLS, AND FAUCET AND OPERATING CONTROLS, SHALL BE NO GREATER THAN 5 LBF.
 - SEE SHEET A110 FOR WALL DIMENSIONS.
 - USE MOISTURE RESISTANT GYPSUM BOARD AT WALLS BEHIND PLUMBING FIXTURES.
 - PROVIDE BATT INSULATION IN WALLS WHERE SCHEDULED ON SHEET A110.
- XX-X FINISH TAG - SEE FINISH SCHEDULE ON SHEET A120
DOOR TAG - SEE DOOR SCHEDULE ON SHEET A110



LINGLEDESIGNGROUP, INC.
158 WEST MAIN STREET
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5875
WWW.LINGLEDESIGN.COM

REGISTERED ARCHITECT
STATE OF TEXAS
18173
10/03/2022
PROJECT #:
DRAWN BY: BA
CHECKED BY: MP

PERMIT SET - 08/12/2022
PERMIT COMMENTS - 10/03/2022

SHERWIN WILLIAMS

STORE #:
XXXX
ADDRESS:
LOT 3, BLOCK "A"
HIGHWAY 973
MANOR, TX 78653

Enlarged Restroom Plan

SHEET NUMBER:

A400

SPECIAL INSPECTIONS NOTES

Table with columns: IBC SECTION, SPECIAL INSPECTION, CONTINUOUS SPECIAL INSPECTION, PERIODIC SPECIAL INSPECTION, REFERENCED STANDARD, IBC REFERENCES. Includes sections for Concrete Construction, Masonry Construction, Wood Construction, Soils, and Foundations.

Table titled 'REQUIRED STRUCTURAL SPECIAL INSPECTIONS' with columns: SPECIAL INSPECTION, CONTINUOUS SPECIAL INSPECTION, PERIODIC SPECIAL INSPECTION, REFERENCED STANDARD. Includes sections for Fabricators and Steel Construction.

Table titled 'REQUIRED STRUCTURAL SPECIAL INSPECTIONS' with columns: SPECIAL INSPECTION, CONTINUOUS SPECIAL INSPECTION, PERIODIC SPECIAL INSPECTION, REFERENCED STANDARD. Includes sections for Steel Construction and Open Web Steel Joists.

STRUCTURAL SPECIAL INSPECTIONS NOTES:

- List of structural inspection notes including: SPECIAL INSPECTIONS ARE NOT REQUIRED FOR CONSTRUCTION OF A MINOR NATURE OR AS WARRANTED BY CONDITIONS IN THE JURISDICTION AS APPROVED BY THE BUILDING OFFICIAL; UNLESS OTHERWISE REQUIRED BY THE BUILDING OFFICIAL, SPECIAL INSPECTIONS ARE NOT REQUIRED FOR GROUP U OCCUPANCIES; SPECIAL INSPECTIONS ARE NOT REQUIRED FOR PORTIONS OF STRUCTURES DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION PROVISIONS OF IBC SECTION 2211.7; THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION; DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR.

STRUCTURAL STEEL NOTES

- List of structural steel notes including: ALL STRUCTURAL STEEL SHALL BE DESIGNED, DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATIONS; STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS UNLESS OTHERWISE NOTED ON THE CONTRACT DOCUMENTS; CONNECTION MATERIAL SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS OR AS NEEDED FOR CONNECTION DESIGN; ALL BEAMS AND COLUMNS SHALL BE FULL LENGTH WITHOUT SPLICES UNLESS OTHERWISE INDICATED ON PLANS; REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR VERIFICATION OF ALL BOLTS, BLOCKING ANCHORS, ETC., FOR THE ANCHORAGE OF THEIR RESPECTIVE ITEMS; ALL SHOP AND FIELD WELDS SHALL BE MADE BY WELDERS WHO HAVE BEEN QUALIFIED AND CERTIFIED TO MAKE THE REQUIRED WELDS IN ACCORDANCE WITH THE LATEST AMERICAN WELDING SOCIETY SPECIFICATIONS A.W.S. D1.1.

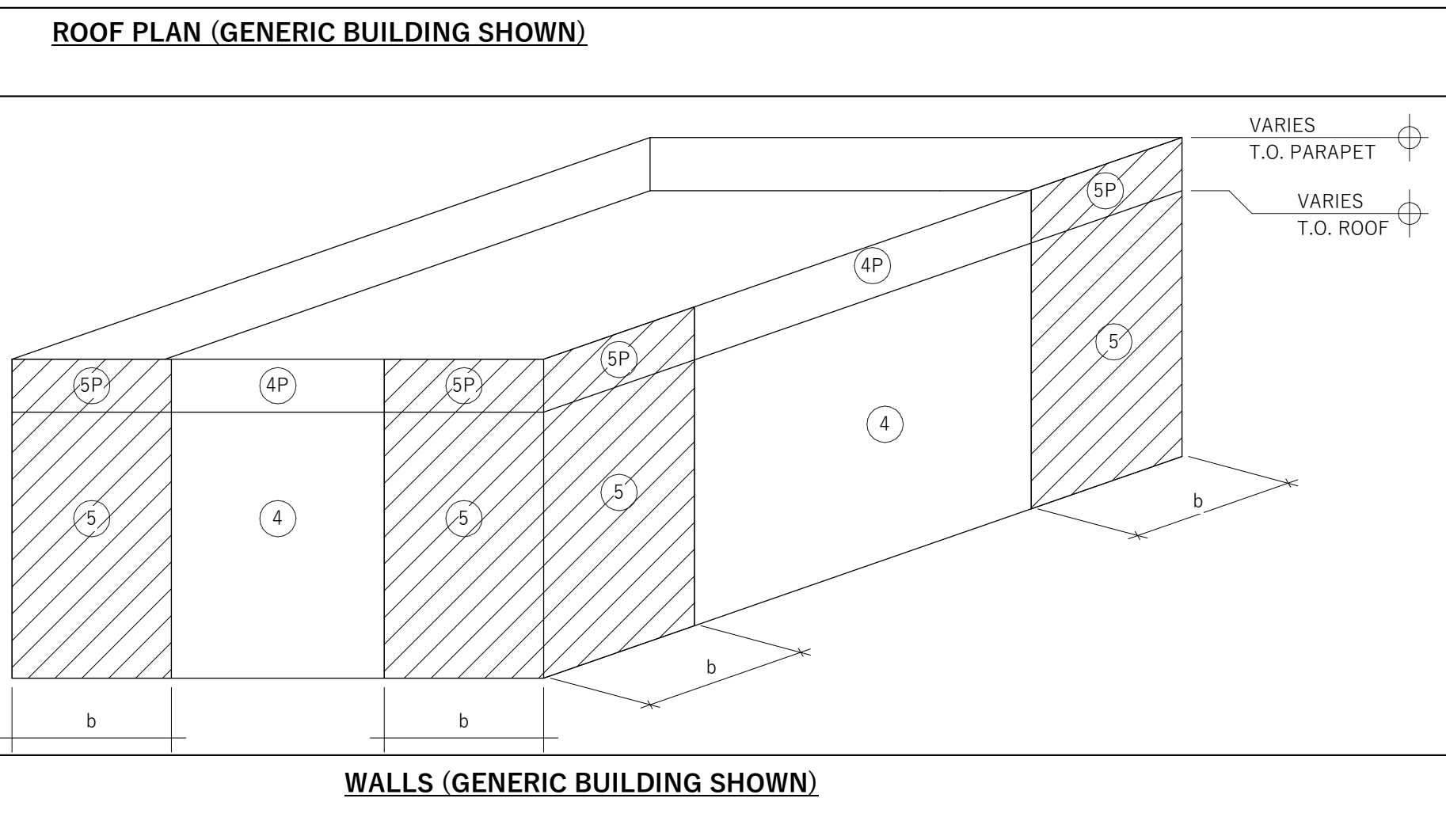
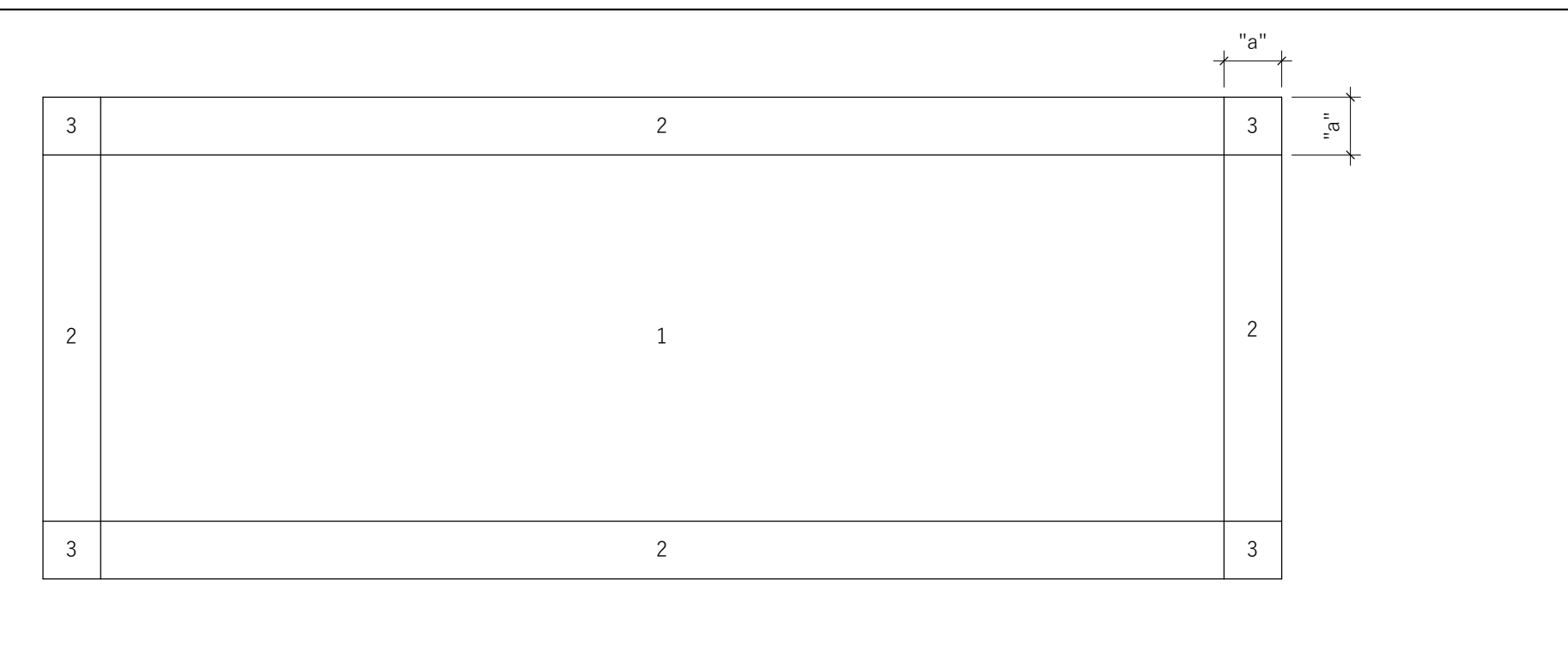
Table titled 'CONTINUOUS WALL FOOTING SCHEDULE' with columns: MARK, WIDTH, THICKNESS, REINFORCING. Includes rows for WF18 and WF24.

Table titled 'SPREAD FOOTING SCHEDULE' with columns: MARK, WIDTH, LENGTH, THICKNESS, REINFORCING. Includes row for F4.0.

Table titled 'SHEARWALL SCHEDULE' with columns: SHEARWALL MARK, SHEATHING, EDGE NAILING, LATERAL TIE PLATE CONNECTOR, HOLD DOWNS, DRAG STRUT/TENSION TIE, ANCHOR BOLTS. Includes rows for marks 1, 2, and 3.

Table titled 'SYMBOLS LEGEND' with columns: SYMBOL, DESCRIPTION. Includes symbols for Footing Mark, Footing Elevation, Steel Column Mark, Shear Wall, and Keynote.

Table titled 'COMPONENT & CLADDING DESIGN WIND PRESSURES (PSF)' with columns: ZONE, 10 SF, 50 SF, 200 SF. Includes sub-tables for ROOF, WALLS, and PARAPET.



WIND PRESSURE DIAGRAMS 1" = 1'-0"

Lingle Design Group, Inc. logo and contact information: 15B WEST MAIN STREET, LENA, IL 61048, 1764 BLAKE ST, DENVER, CO 80202. Website: WWW.LINGLEDESIGN.COM

JCA logo and contact information: 4100 Wadsworth Blvd., Wheat Ridge, CO 80033, p. 303.985.3280, TX F-14436. Website: WWW.JCA-COLORADO.COM

PROJECT #: XXXX, DRAWN BY: TN, CHECKED BY: NHR, PERMIT SET - 08/12/2022. Includes a vertical stack of five upward-pointing triangles.

SHERWIN WILLIAMS logo, STORE #: XXXX, ADDRESS: LOT 3, BLOCK "A" HIGHWAY 973 MANOR, TX 78653, SHEET TITLE: GENERAL NOTES, SCHEDULES, AND DIAGRAMS, SHEET NUMBER: S002



LINGLE DESIGN GROUP, INC.
 158 WEST MAIN STREET
 LENA, IL 61048
 815.369.9155
 1764 BLAKE ST
 DENVER, CO 80202
 303.974.5875
 WWW.LINGLEDESIGN.COM

JCAA
 4100 Wadsworth Blvd.
 Wheat Ridge, CO 80033
 p. 303.985.3280
 TX F-14436
 #22.102

ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF LINGLE DESIGN GROUP, INC. THEY MAY NOT BE REPRODUCED, COPIED, REUSED, OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.

PROJECT #:
 XXXX
 DRAWN BY: TN CHECKED BY: NHR

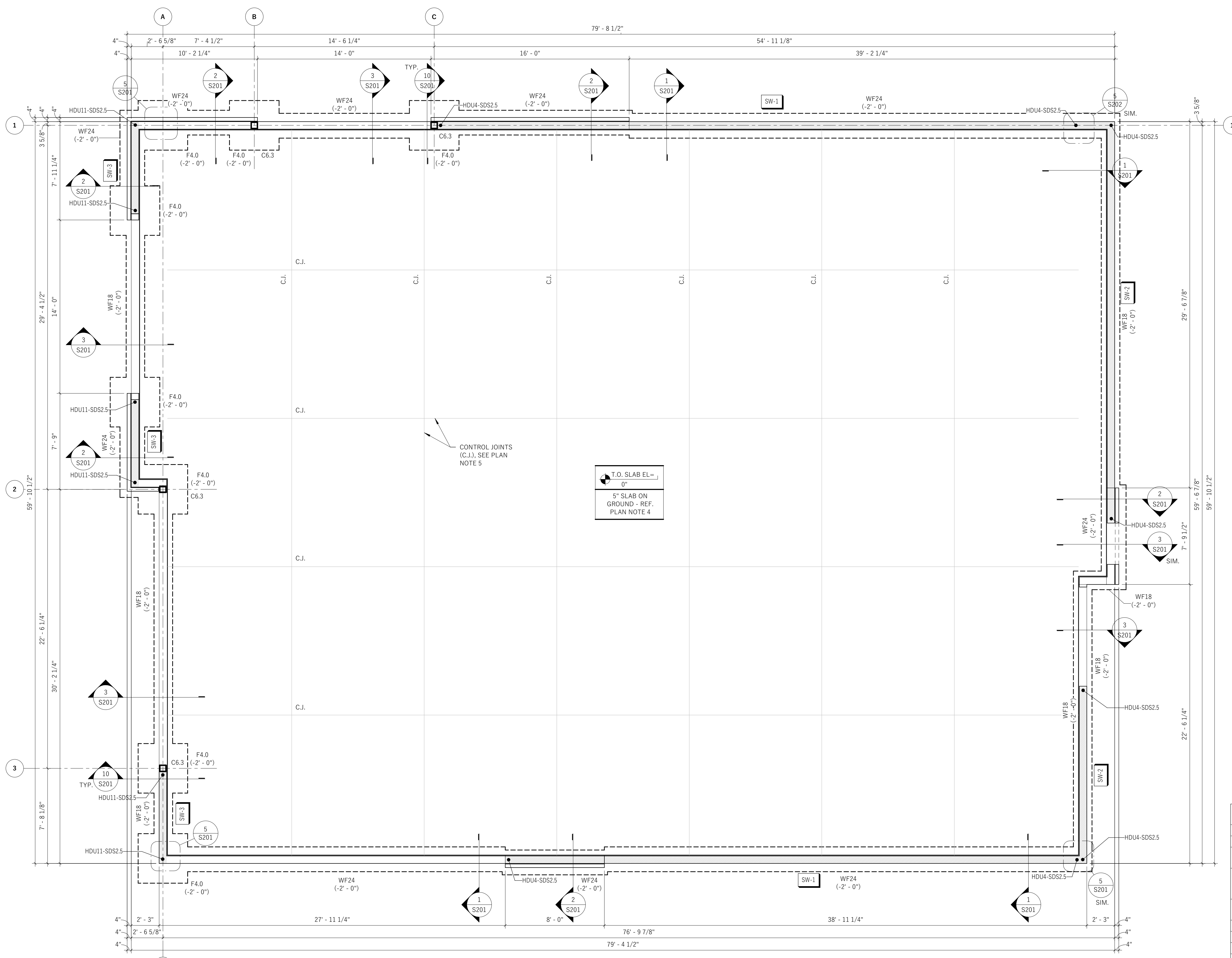
PERMIT SET - 08/12/2022
 ADD 1 - 10/03/2022

SHERWIN WILLIAMS

STORE #:
 XXXX
 ADDRESS:
 LOT 3, BLOCK "A"
 HIGHWAY 973
 MANOR, TX 78653

FOUNDATION PLAN

SHEET NUMBER:
S100



T.O. SLAB EL. = 0"
 5" SLAB ON GROUND - REF. PLAN NOTE 4

CONTROL JOINTS (C.J.) SEE PLAN NOTE 5

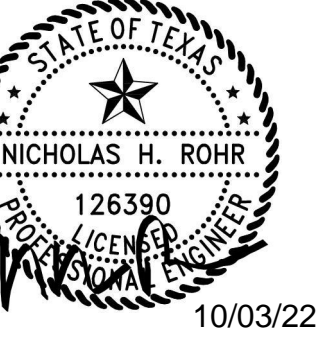
COLUMN SCHEDULE	
MARK	COLUMN SIZE
C6.3	HSS6X6X3/16

ALL HOLD-DOWN ANCHOR BOLTS SHOWN ON PLANS REPRESENT A GENERAL LOCATION AND MUST BE VERIFIED BASED ON SPECIFIED POST SIZE WITH RELATION TO THE ROUGH OPENING/EDGE OF WALL LOCATIONS. REFERENCE ARCHITECTURAL DRAWINGS FOR DIMENSIONAL VERIFICATION. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO ENSURE THESE ARE PLACED PRIOR TO THE FOUNDATION POUR - EPOXIED ANCHOR BOLTS ARE NOT AN EQUAL SUBSTITUTE. FAILURE TO PLACE HOLD-DOWN ANCHOR BOLTS IN THE CORRECT LOCATION WILL LIKELY RESULT IN CUTTING/REMOVAL OF FOUNDATION ELEMENTS, DOWELING AND REPOUR OF AREAS REMOVED. ADDITIONAL FEES MAY INCUR FOR REDESIGNING OF FOUNDATIONS AND REPLACEMENT HOLD-DOWNS.

FOUNDATION SHEET NOTES

- REF. S0 SERIES FOR GENERAL NOTES AND DESIGN CRITERIA.
- REF. S2 SERIES FOR FOUNDATION TYPICAL DETAILS.
- STRUCTURAL DATUM EL = 100'-0" = CIVIL DATUM = 1480.9. ELEVATIONS SHOWN ARE RELATIVE TO STRUCTURAL DATUM.
- SLAB ON GROUND: 5" THICK CONC. SLAB ON GROUND REINFORCED WITH #4 BARS AT 16" O.C. EACH WAY PLACED 2" BELOW TOP OF SLAB OVER 4" BASE COURSE LAYER OVER 10 MIL. VAPOR RETARDER. REF. GENERAL NOTES FOR BASE AND SUBGRADE REQUIREMENTS.
- LOCATE CONTROL JOINTS AT A MAXIMUM OF 12'-0" O.C. REF. DETAIL 8/S202 AT CONTROL JOINTS OR CONSTRUCTION JOINTS AT CONTRACTOR'S OPTION.
- TYP. WALL FRAMING: 2x8 (D.F. - L) STUDS AT 24" O.C.
- DO NOT SCALE WALL LENGTH ON PLAN. REF. ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- REF. ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL SLOPED SLABS AND SLAB DEPRESSIONS.
- REFERENCE ARCHITECTURAL AND PLUMBING DRAWINGS FOR ALL CONCRETE SLAB LEAVE OUTS, FLOOR DRAIN, AND SLAB PENETRATION LOCATIONS.
- VERIFY ALL OPENING DIMENSIONS AND LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- REFERENCE CIVIL DRAWINGS FOR ALL EXTERIOR SIDEWALKS, RAMPS, AND DOOR STOOPS.
- ALL FOOTINGS SHOULD BE CENTERED ON COLUMNS, HOLD DOWNS OR CONCRETE WALL INTERSECTIONS.

1
S100
 1/4" = 1'-0"



10/03/22

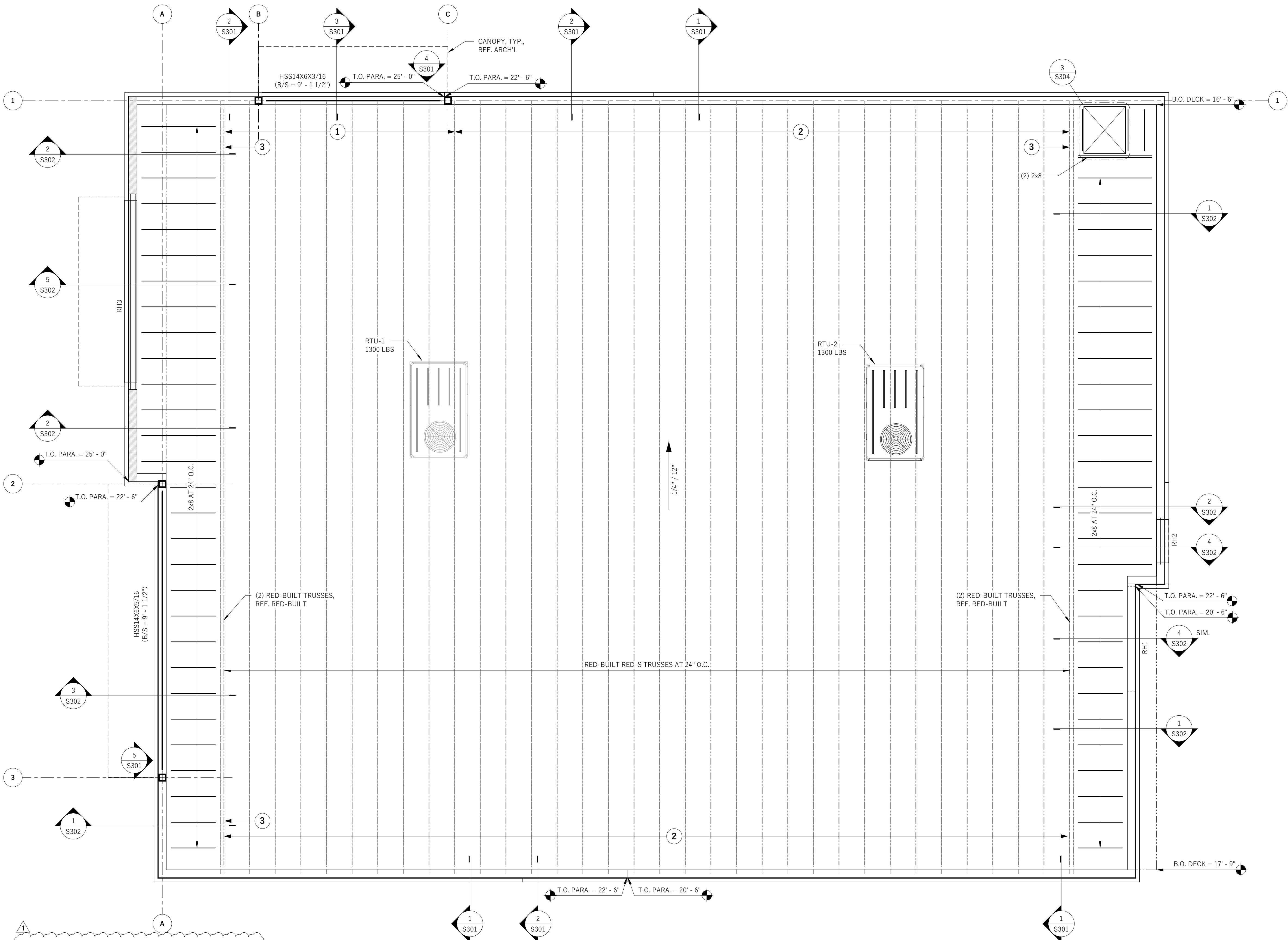
LINGLEDESIGNGROUP, INC
 158 WEST MAIN STREET
 LENA, IL 61048
 815.369.9155
 1764 BLAKE ST
 DENVER, CO 80202
 303.974.5875
 WWW.LINGLEDESIGN.COM

JCAA
 4100 Wadsworth Blvd.
 Wheat Ridge, CO 80033
 p. 303.985.3280
 TX F-14436 #22,102

ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF LINGLE DESIGN GROUP, INC. THEY MAY NOT BE REPRODUCED, COPIED, REUSED, OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.

PROJECT #:
 XXXX
 DRAWN BY: TN CHECKED BY: NHR

PERMIT SET - 0812/2022
 ADD 1 - 10/03/2022



1 ROOF FRAMING PLAN
 S101 1/4" = 1'-0"

ROOF FRAMING PLAN KEY NOTES

#	KEY NOTE
1	TRUSS DESIGNER TO DESIGN FOR (+/-) 150 LBS (ASD) SHEAR AND (+/-) 900 LBS (ASD) AXIAL DUE TO WIND AT KICKER REACTION
2	TRUSS DESIGNER TO DESIGN FOR (+/-) 300 LBS (ASD) SHEAR AND (+/-) 350 LBS (ASD) AXIAL DUE TO WIND AT KICKER REACTION
3	TRUSS DESIGNER TO DESIGN FOR 450 PLF (ASD) DUE TO WIND AT KICKER REACTION

STOREFRONT DEFLECTION SCHEDULE

WINDOW MANUFACTURER SHALL PROVIDE A SYSTEM THAT IS ABLE TO ACCEPT THE DEFLECTIONS INDICATED BELOW:

HEADER SIZE	HEADER VERTICAL	HEADER HORIZONTAL	JAMB HORIZONTAL
(4) 1.75x18" LVL	0.17"	0.34"	0.33"
HSS14X6X3/16	0.448"	0.301"	0.394"
HSS14X6X5/16	0.667"	0.466"	0.846"

HEADER SCHEDULE

MARK	HEADER SIZE	JAMB	KING
RH1	(4) 2x8	(2) 2x8	(2) 2x8
RH2	(4) 2x6	(1) 2x8	(1) 2x8
RH3	(4) 1 3/4" x 18" LVL W/ (2) 2x8 TOP AND BOT.	(3) 2x8	(3) 2x8

ROOF FRAMING NOTES

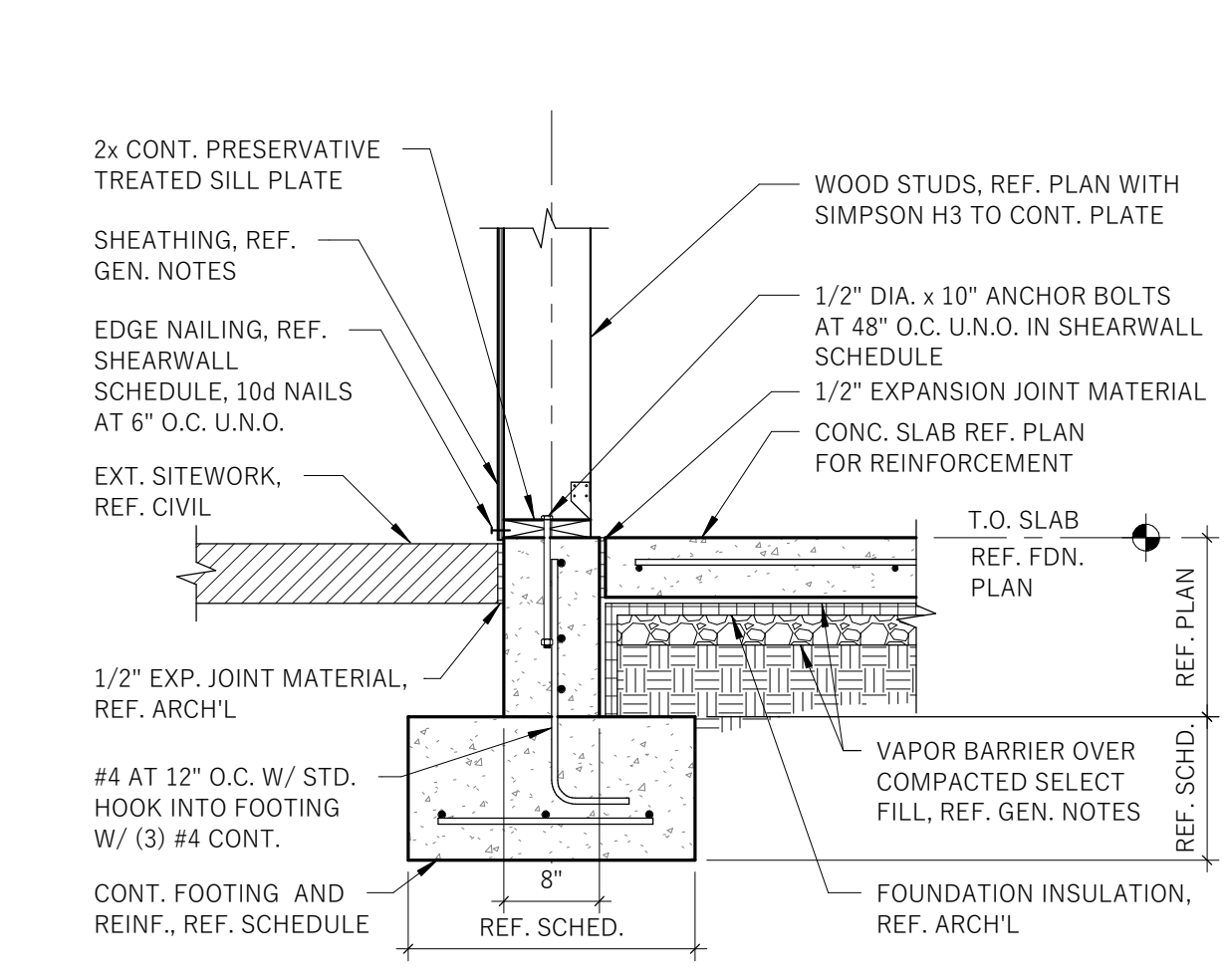
- DESIGN LIVE LOAD: SEE GENERAL NOTES
- VERIFY ALL OPENING DIMENSIONS AND LOCATIONS WITH ARCH'L DRAWINGS.
- TYP. ROOF CONSTRUCTION: 19/32" PLYWOOD DECK OVER RED-S TRUSSES WITH SINGLE SLOPED TOP CHORD (DESIGNED BY MANUF.) AT 2'-0" O.C. MAX.
- TRUSS MANUF. TO VERIFY ALL MECHANICAL UNITS AND OPENINGS WITH MECHANICAL ENGINEER AND MECHANICAL CONTRACTOR PRIOR TO CONSTRUCTION.
- TRUSS BEARING ELEVATION = 114' - 0"
- TRUSS MANUF. TO DESIGN ALL UPLIFT BRIDGING AND CONNECTIONS FOR WIND LOADS SHOWN ON WIND PRESSURE DIAGRAMS ON S002
- REDBUILT REP - ANDREW SPRAY - CONTACT INFORMATION: (740) 404 - 2563

SHERWIN WILLIAMS

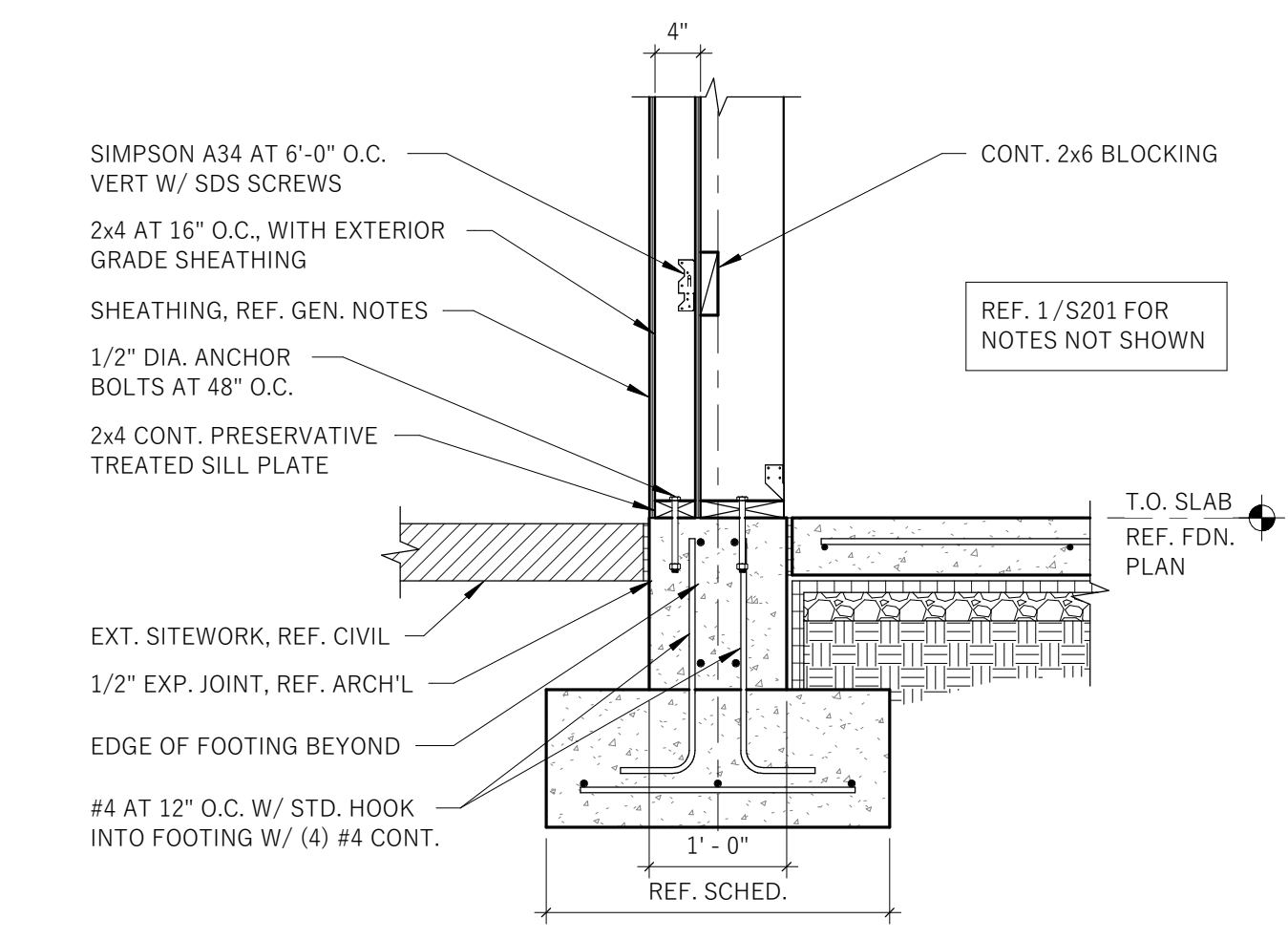
STORE #:
 XXXX
 ADDRESS:
 LOT 3, BLOCK "A"
 HIGHWAY 973
 MANOR, TX 78653

SHEET TITLE:
ROOF FRAMING PLAN

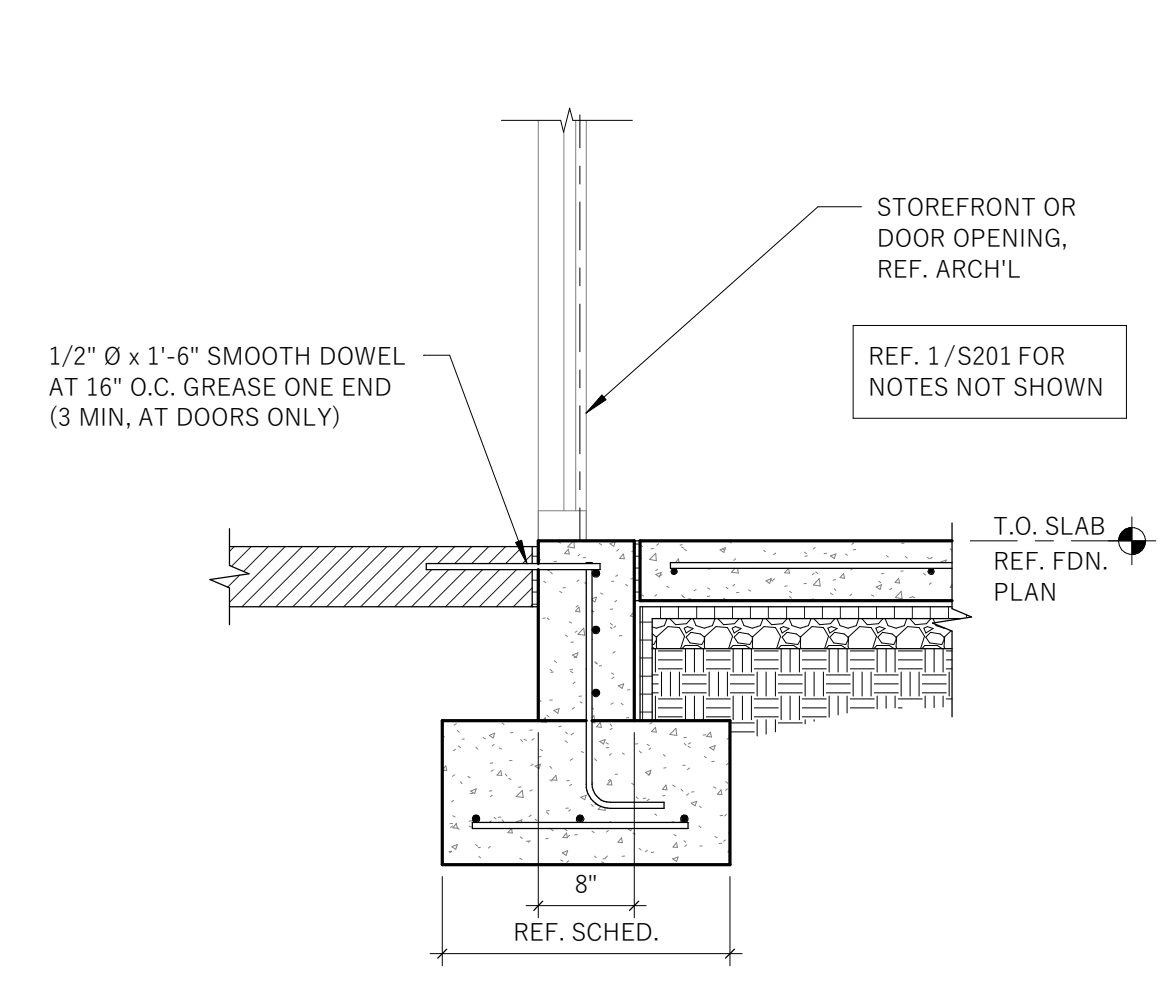
SHEET NUMBER:
S101



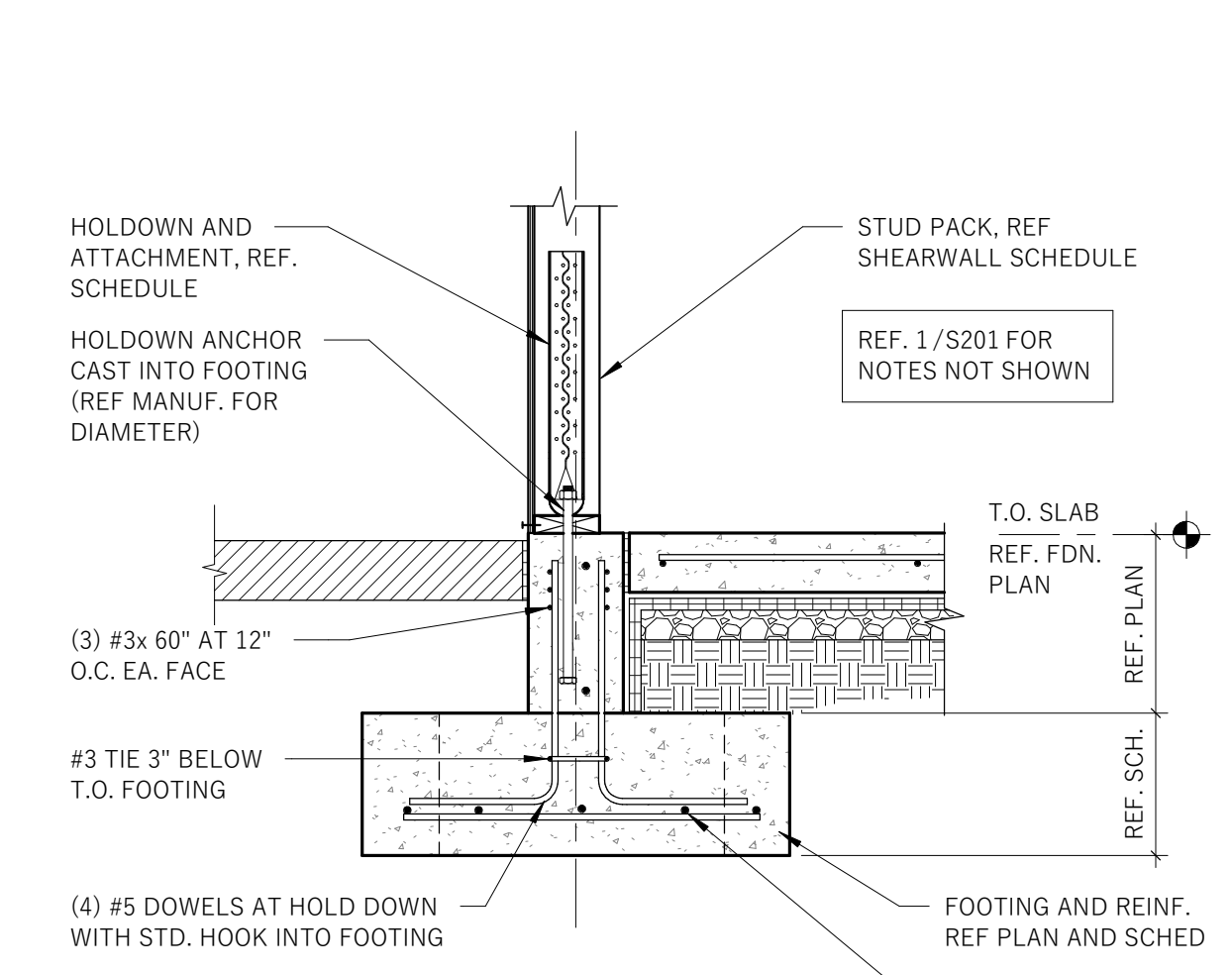
1
S201 3/4" = 1'-0"



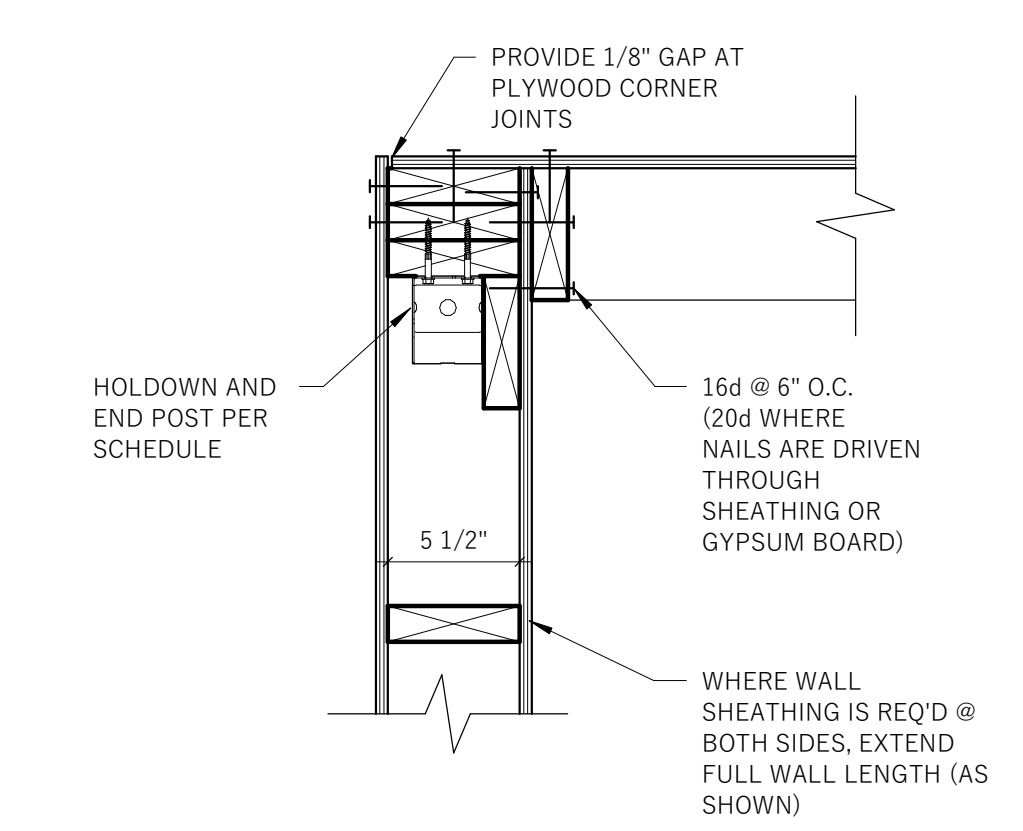
2
S201 3/4" = 1'-0"



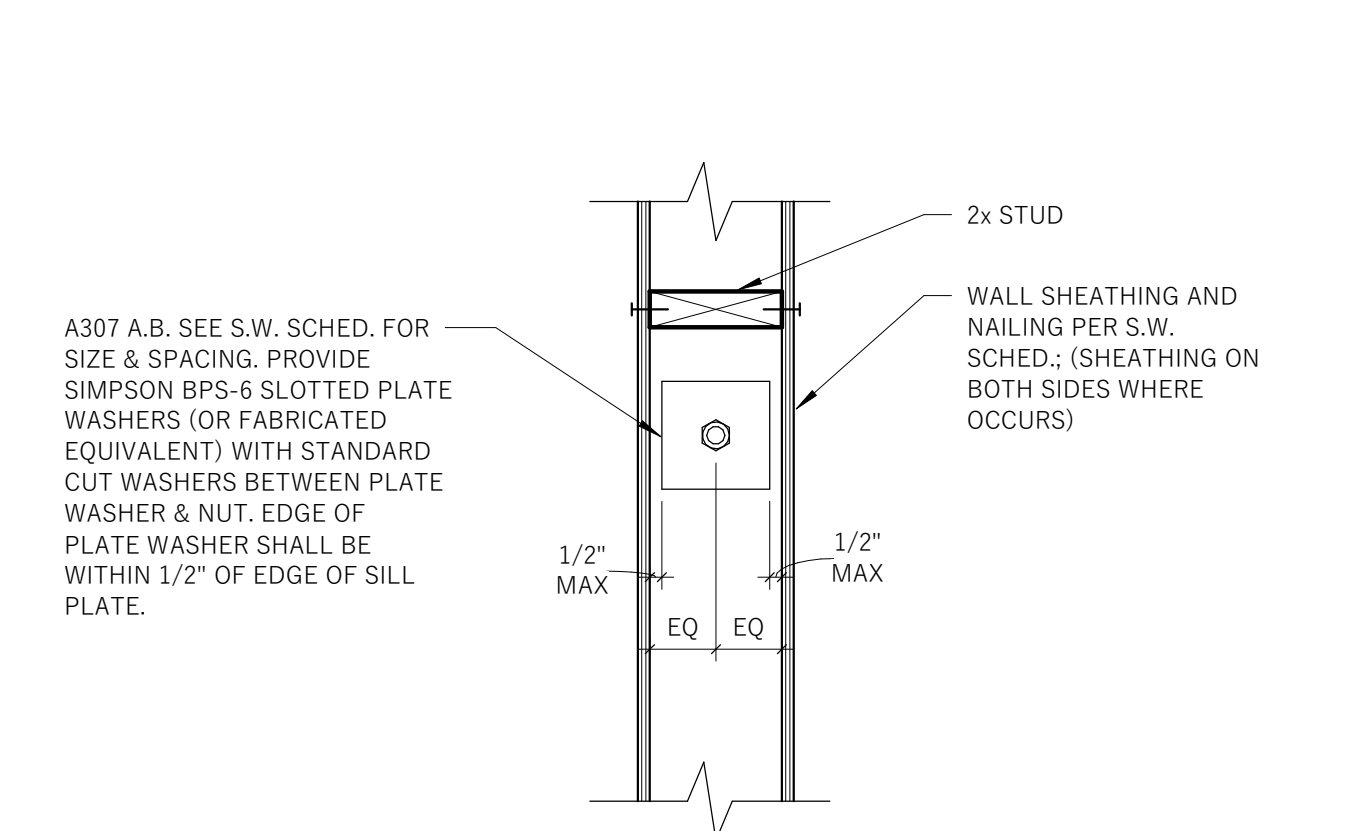
3
S201 3/4" = 1'-0"



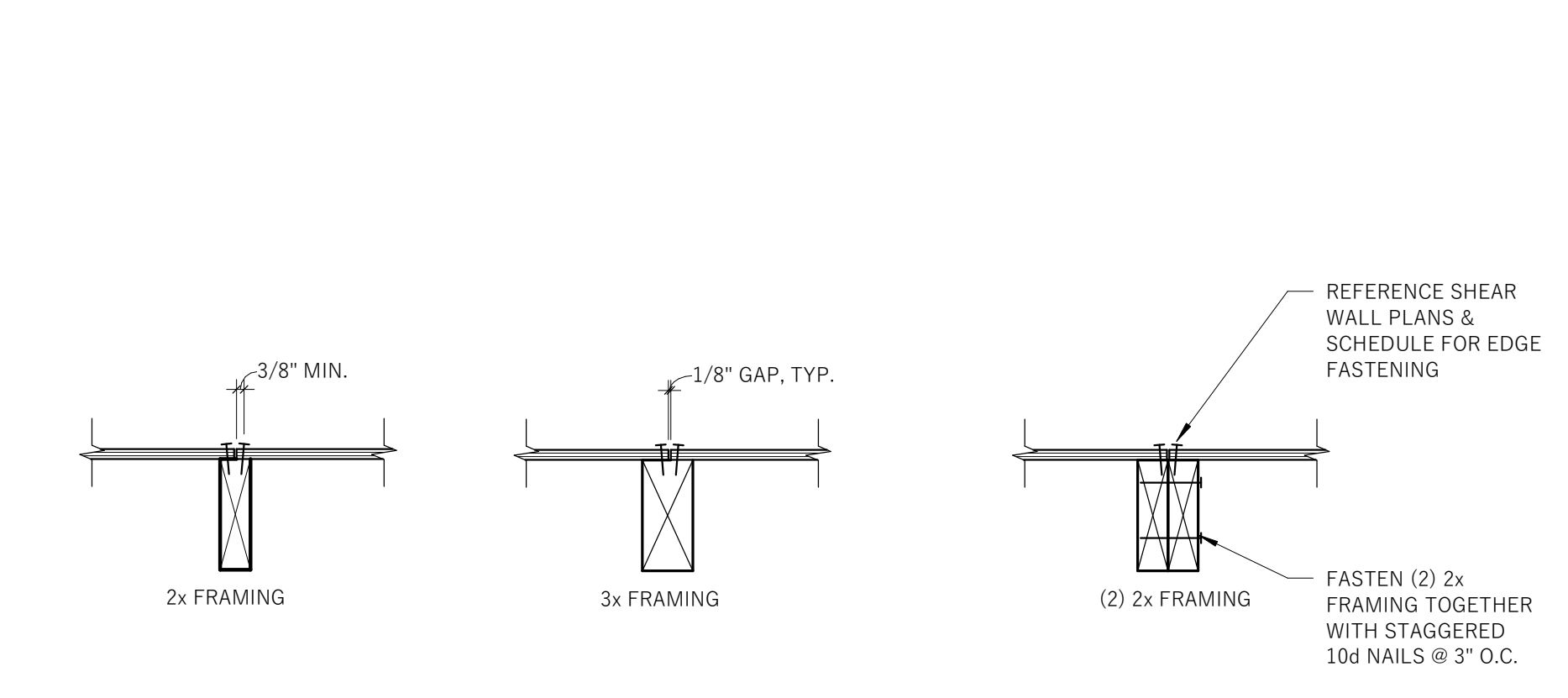
4
S201 3/4" = 1'-0"



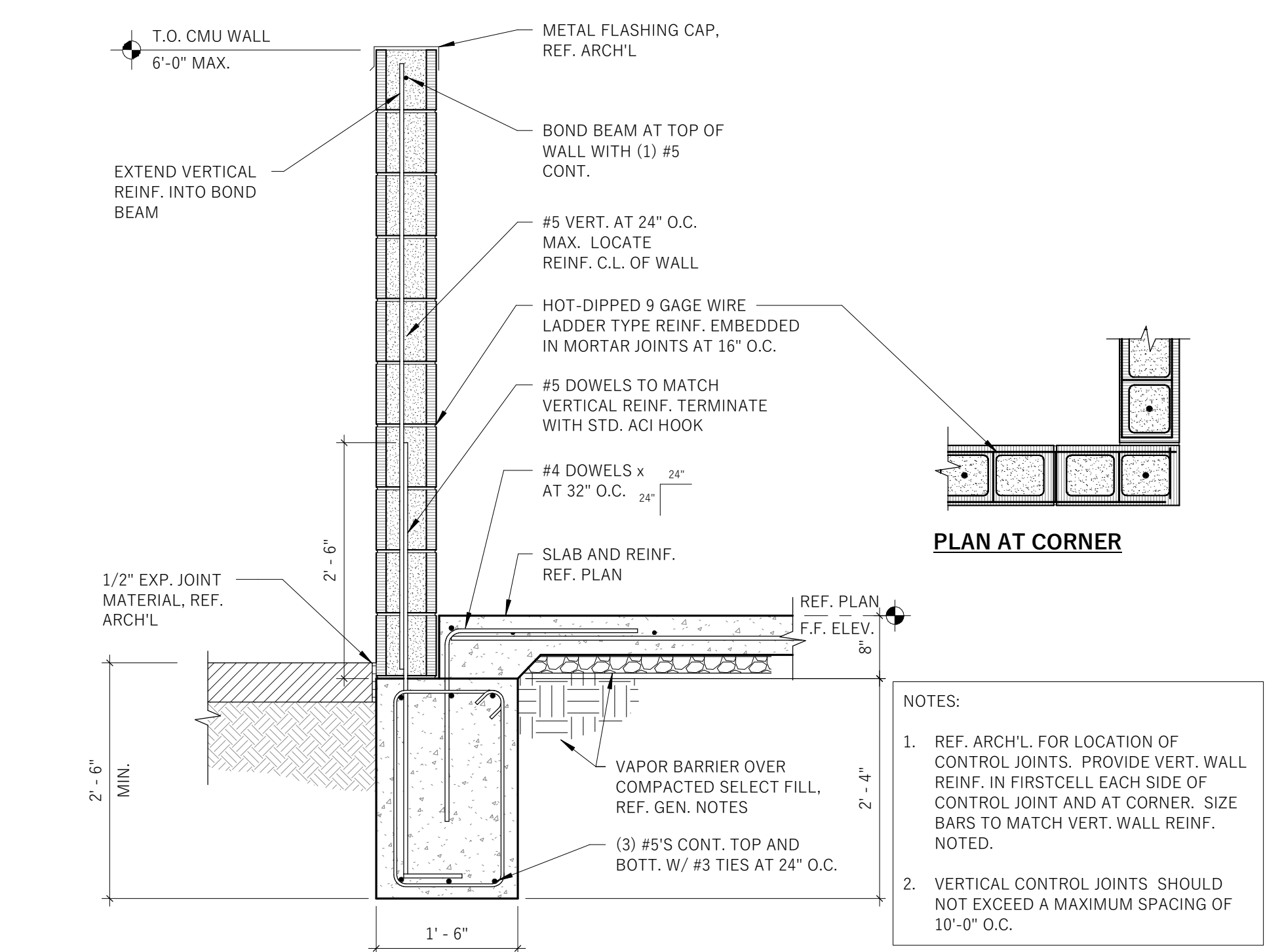
5
S201 1 1/2" = 1'-0"



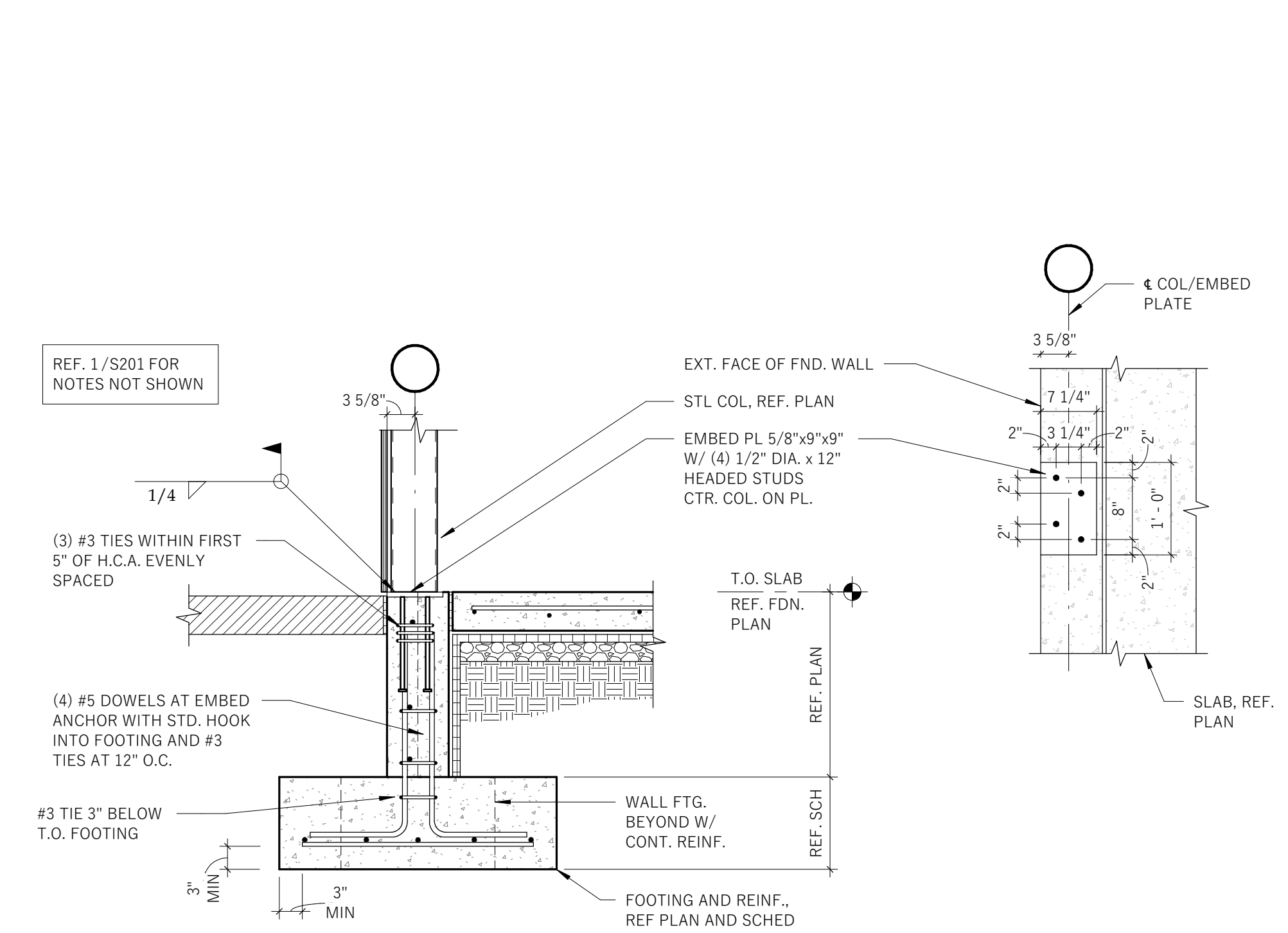
6
S201 1 1/2" = 1'-0"



7
S201 1 1/2" = 1'-0"



9
S201 3/4" = 1'-0"



10
S201 3/4" = 1'-0"



LINGLEDESIGNGROUP, INC
158 WEST MAIN STREET
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5875
WWW.LINGLEDESIGN.COM

JCAA
4100 Wadsworth Blvd.
Wheat Ridge, CO 80033
p. 303.985.3280
TX F-14436

ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE LINGLE DESIGN GROUP, INC. THEY MAY NOT BE REPRODUCED, COPIED, REUSED, OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.

PROJECT #:
XXXX
DRAWN BY: TN CHECKED BY: NHR

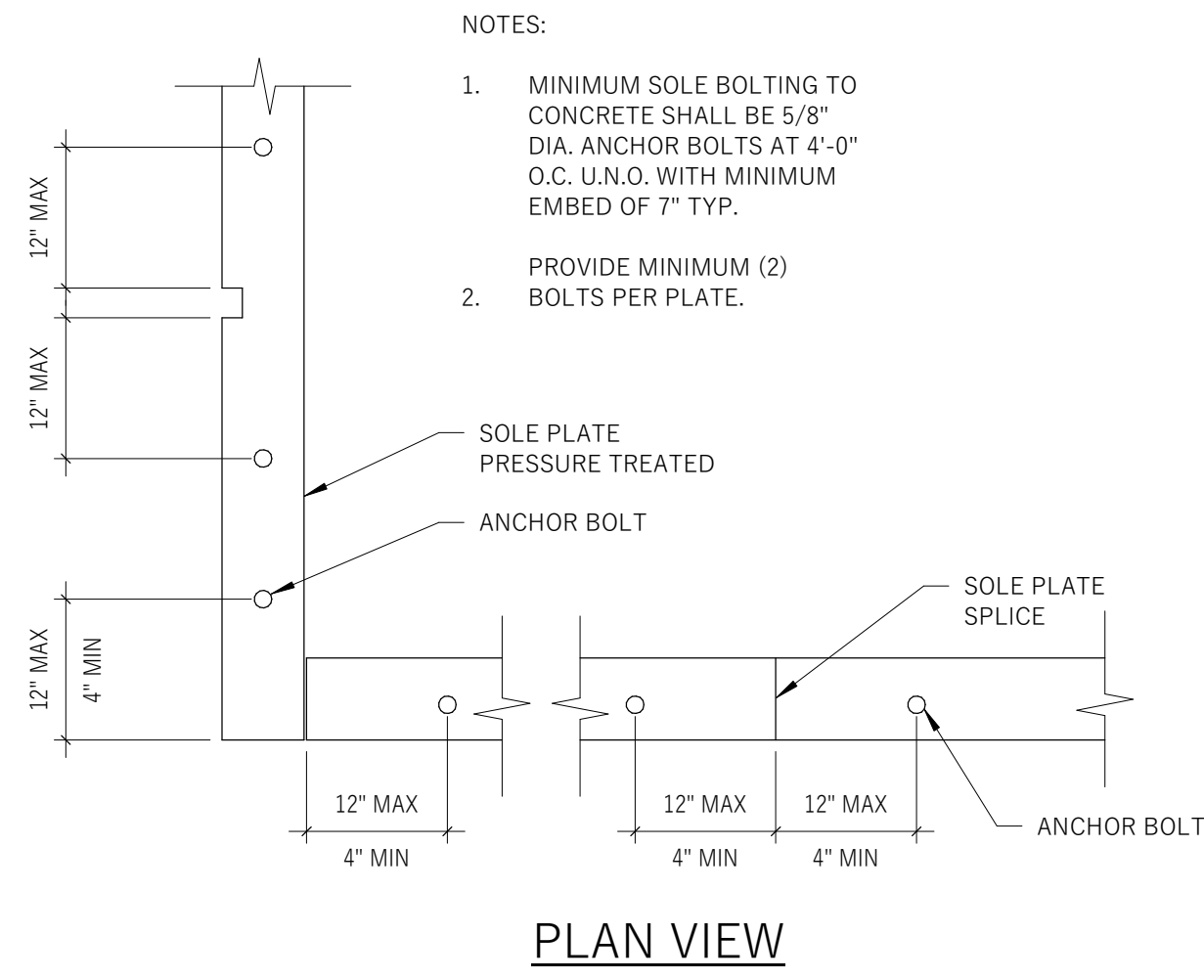
PERMIT SET - 08/12/2022
▲
▲
▲
▲
▲

SHERWIN WILLIAMS

STORE #:
XXXX
ADDRESS:
LOT 3, BLOCK "A"
HIGHWAY 973
MANOR, TX 78653

SHEET TITLE:
FOUNDATION DETAILS

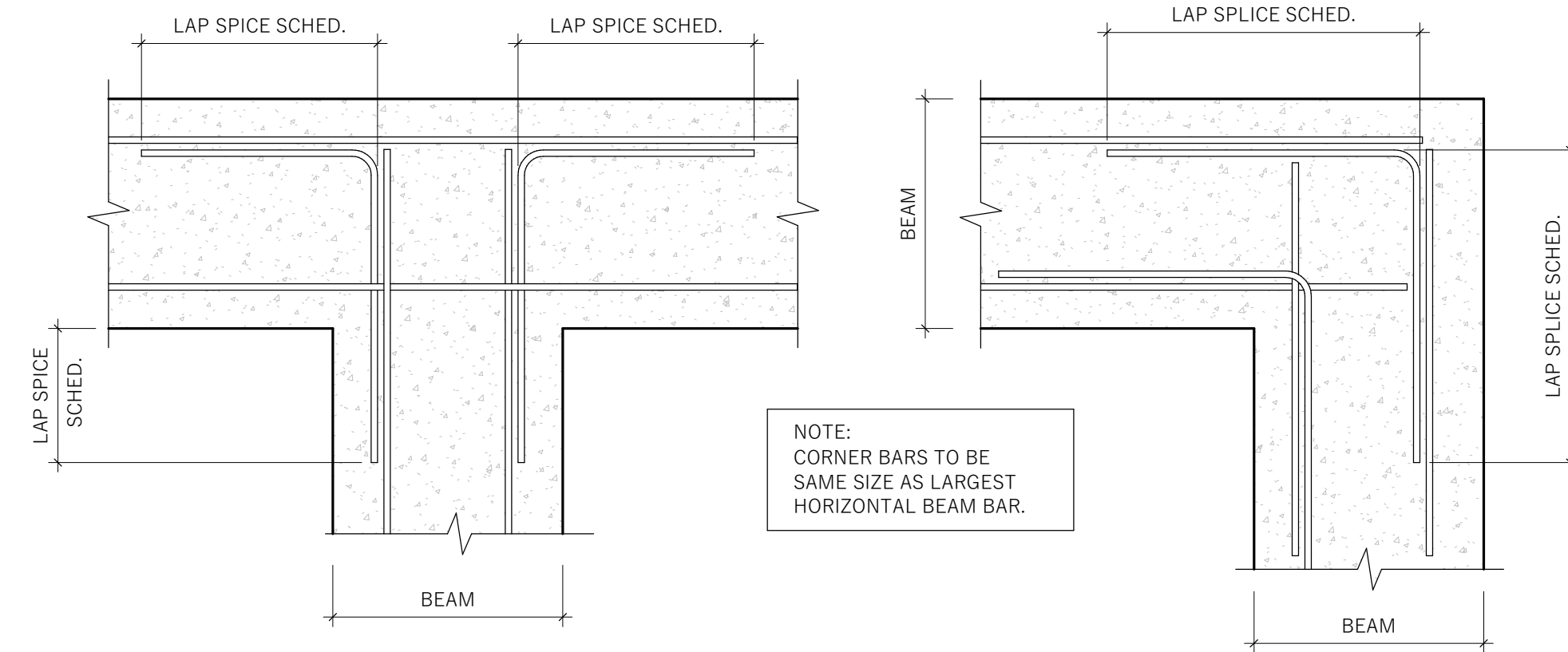
SHEET NUMBER:
S201



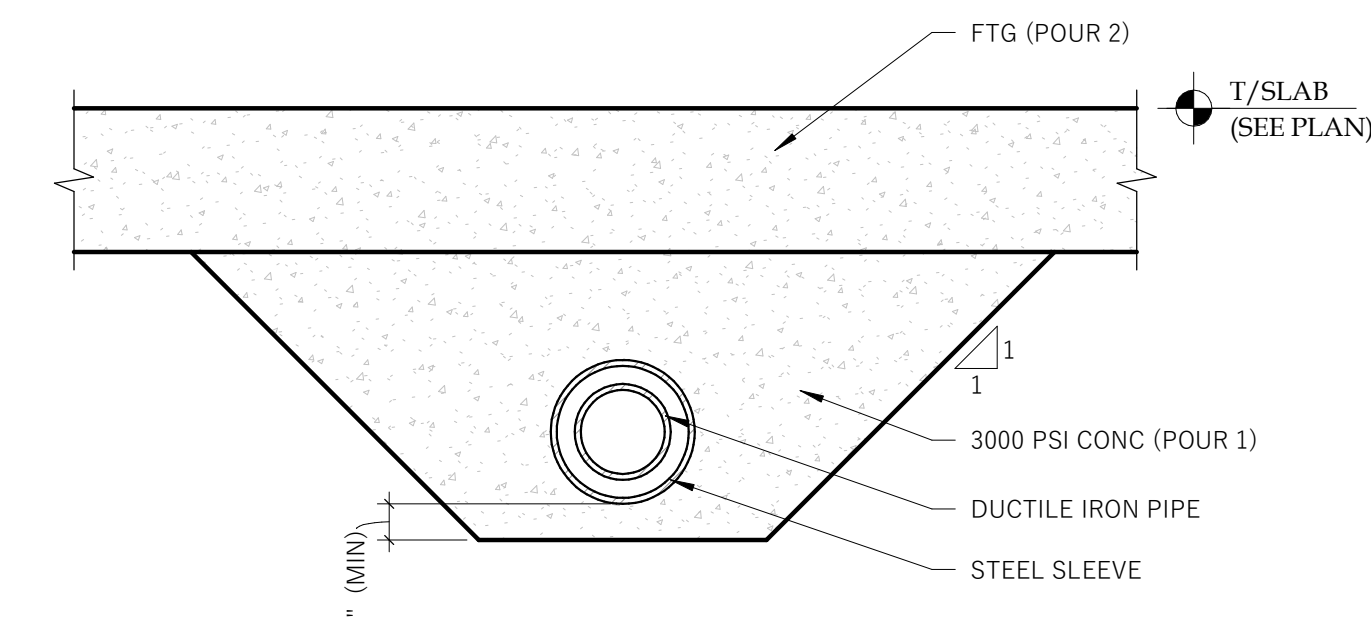
- NOTES:
1. MINIMUM SOLE BOLTING TO CONCRETE SHALL BE 5/8" DIA. ANCHOR BOLTS AT 4'-0" O.C. U.N.O. WITH MINIMUM EMBED OF 7" TYP.
 2. PROVIDE MINIMUM (2) BOLTS PER PLATE.

PLAN VIEW

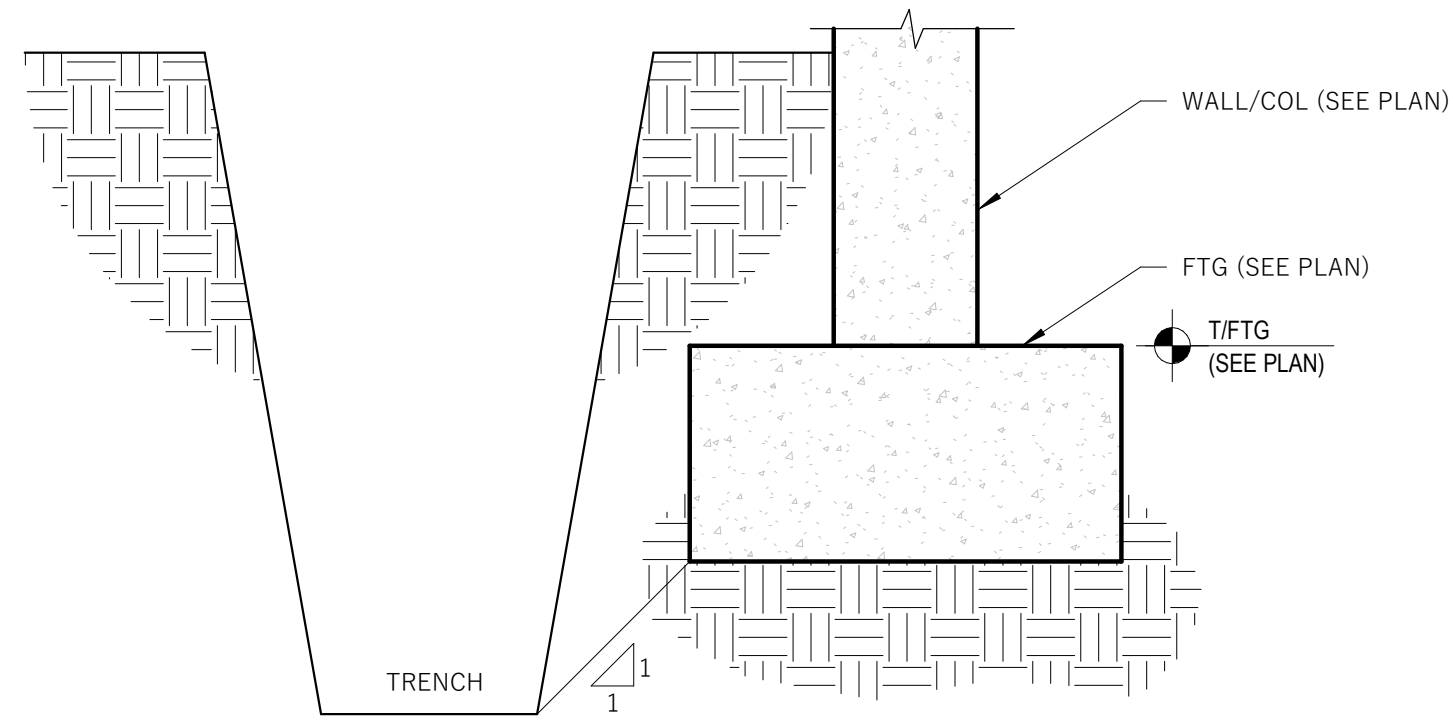
1 TYP. SILL PLATE BOLTING
S202 1" = 1'-0"



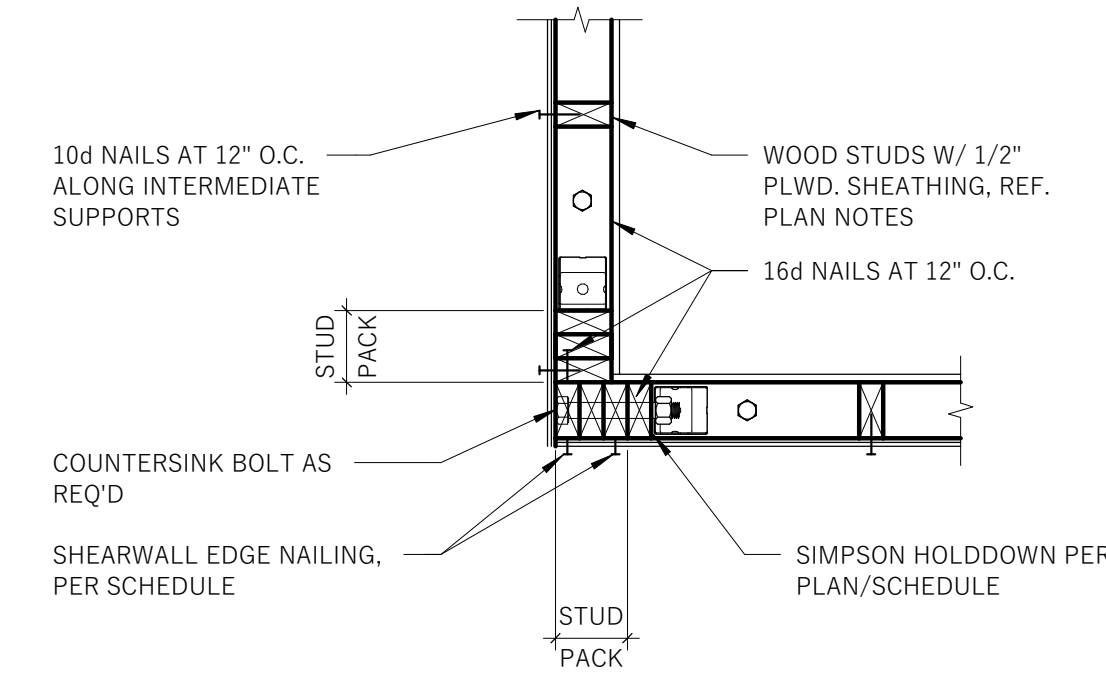
2 TYPICAL CORNER BAR DETAIL
S202 1" = 1'-0"



3 TYP. PIPE UNDER FOOTING
S202 3/4" = 1'-0"



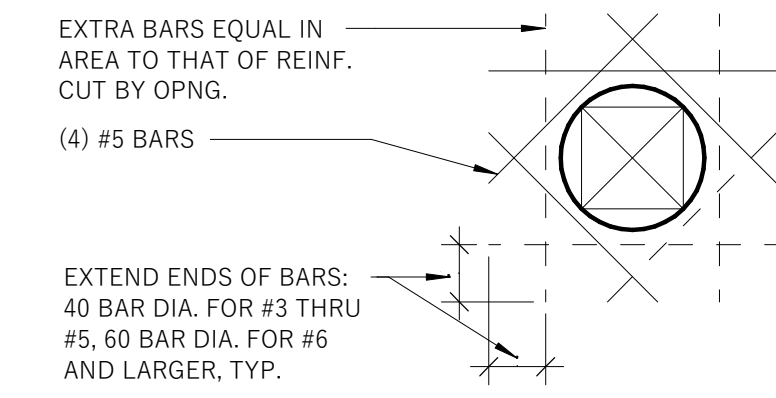
4 EXCAVATION AT UTILITIES TRENCH ADJACENT TO WALL FOOTING
S202 3/4" = 1'-0"



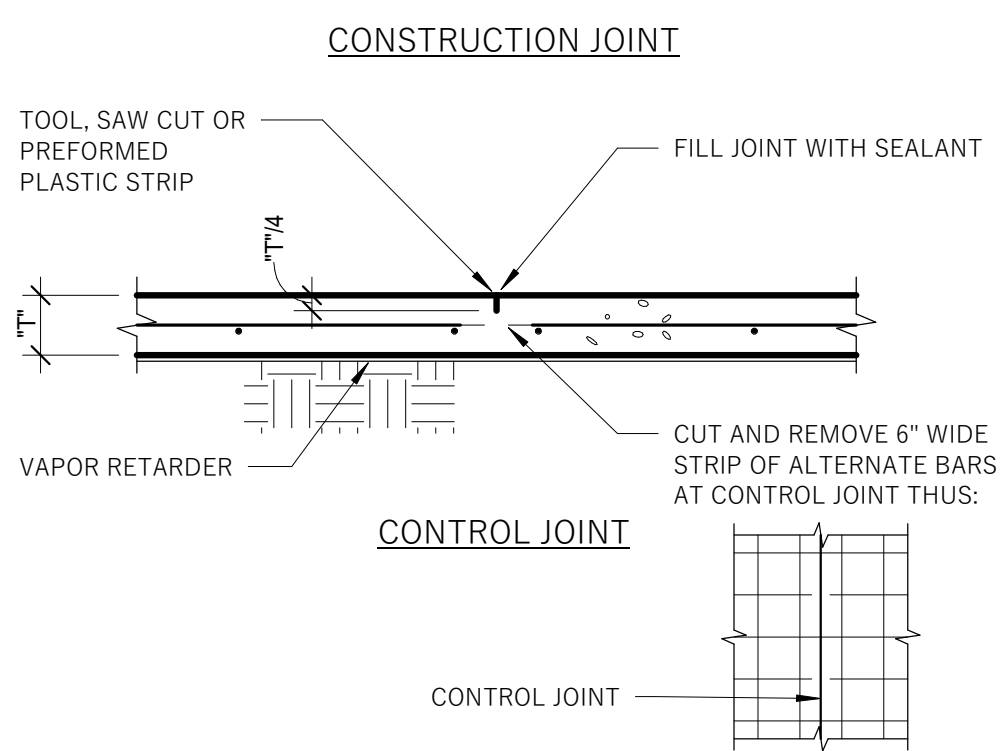
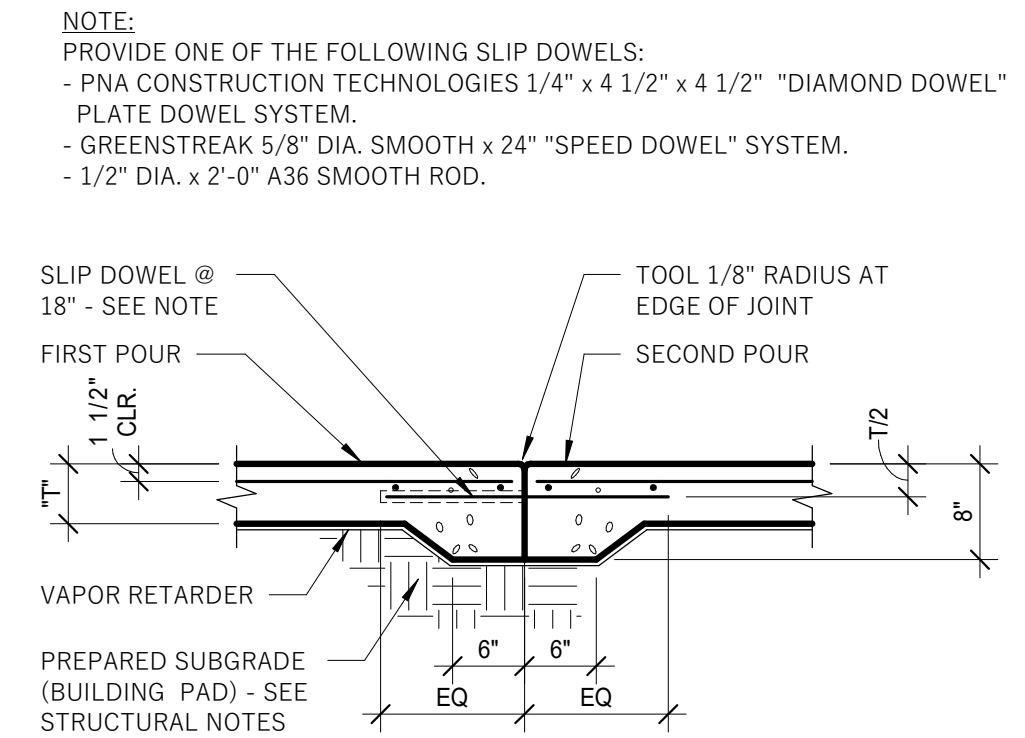
5 PLAN AT HOLDDOWN
S202 1" = 1'-0"

BAR SIZE	CONCRETE LAP SPICE (INCHES)					
	f'c = 3,000psi		f'c = 3,500psi		f'c = 4,000psi	
	TOP	OTHER	TOP	OTHER	TOP	OTHER
3	22	17	20	16	20	15
4	29	22	27	21	25	19
5	36	28	33	26	32	24
6	43	33	40	31	38	29
7	63	48	58	45	55	42
8	72	55	66	51	63	48

6 STEEL REINF. LAP SCHEDULE
S202 3/4" = 1'-0"

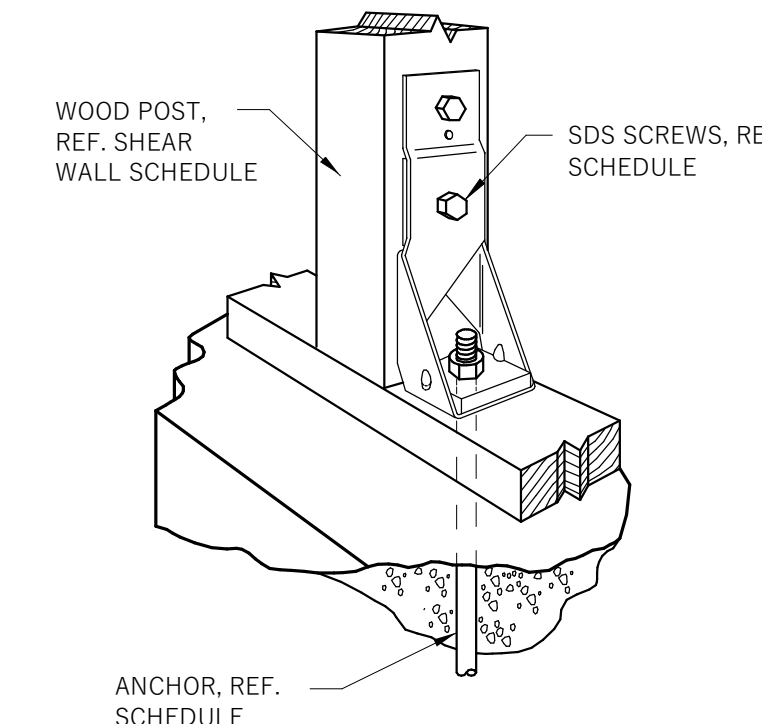


7 TYPICAL PIPE PENETRATION IN CONCRETE
S202 3/4" = 1'-0"



- SLAB-ON-GRADE NOTES:
1. SEE PLAN FOR THICKNESS OF SLAB (T) AND REINFORCING.
 2. SAWCUT JOINTS WITH IN THE TIME FRAME NOTED BELOW:
 - a. 12 HOURS FOR SLABS COVERED BY FINISHES OR NON-PUBLIC SPACES.
 - b. 4 HOUR FOR SLABS EXPOSED TO PUBLIC VIEW OR WHERE NOTED "SOFF-CUT" BRAND SAW SHALL BE USED.
 3. IF METAL FORMS ARE USED, REMOVE THEM BEFORE PLACING ADJACENT SLAB.
 4. FOR SLABS WITH THICKNESS (T) GREATER THAN 6", THICKENED EDGES ARE NOT REQUIRED AT JOINTS.
 5. PROVIDE A CONSTRUCTION OR A CONTROL JOINT ON THE CENTERLINES OF COLUMNS.
 6. LAP REINFORCING 38 BAR DIAMETER MINIMUM.

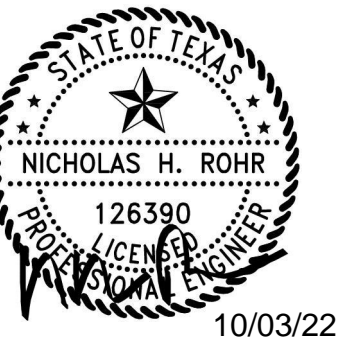
8 TYPICAL SLAB-ON-GRADE DETAIL
S202 3/4" = 1'-0"



HOLDDOWN	FASTENERS			
	QUANTITY	TYPE	SIZE	ANCHOR DIA.
	EMBED			
HDU2-SDS2.5	6	SDS SCREWS	1/4"x 2 1/2"	5/8"
HDU4-SDS2.5	10	SDS SCREWS	1/4"x 2 1/2"	5/8"
HDU5-SDS2.5	14	SDS SCREWS	1/4"x 2 1/2"	5/8"
HDU8-SDS2.5	20	SDS SCREWS	1/4"x 2 1/2"	7/8"
HDU11-SDS2.5	30	SDS SCREWS	1/4"x 2 1/2"	1"

- NOTES:
1. REF. MFR. FOR ITEMS SHOWN BUT NOT NOTED.
 2. INSTALL PER MFR. RECOMMENDATIONS.

9 SIMPSON "HD" SHEAR WALL HOLDDOWN
S202 1" = 1'-0"



LINGLEDESIGNGROUP, INC
15B WEST MAIN STREET
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5875
WWW.LINGLEDESIGN.COM

JCAA
4100 Wadsworth Blvd.
Wheat Ridge, CO 80033
p. 303.985.3280
TX F-14436

ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE LINGLE DESIGN GROUP, INC. THEY MAY NOT BE REPRODUCED, COPIED, REUSED, OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.

PROJECT #:
XXXX
DRAWN BY: TN CHECKED BY: NHR

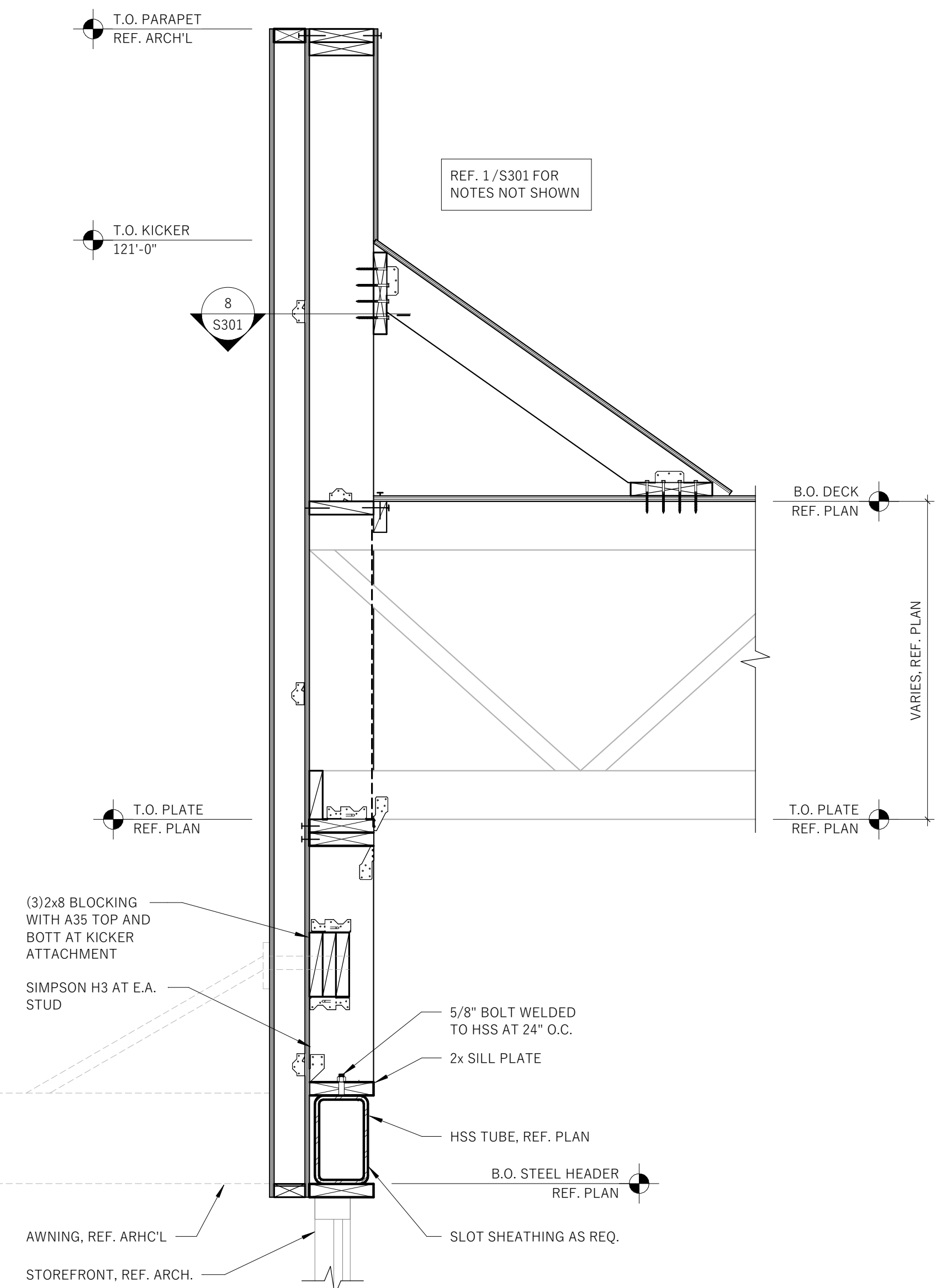
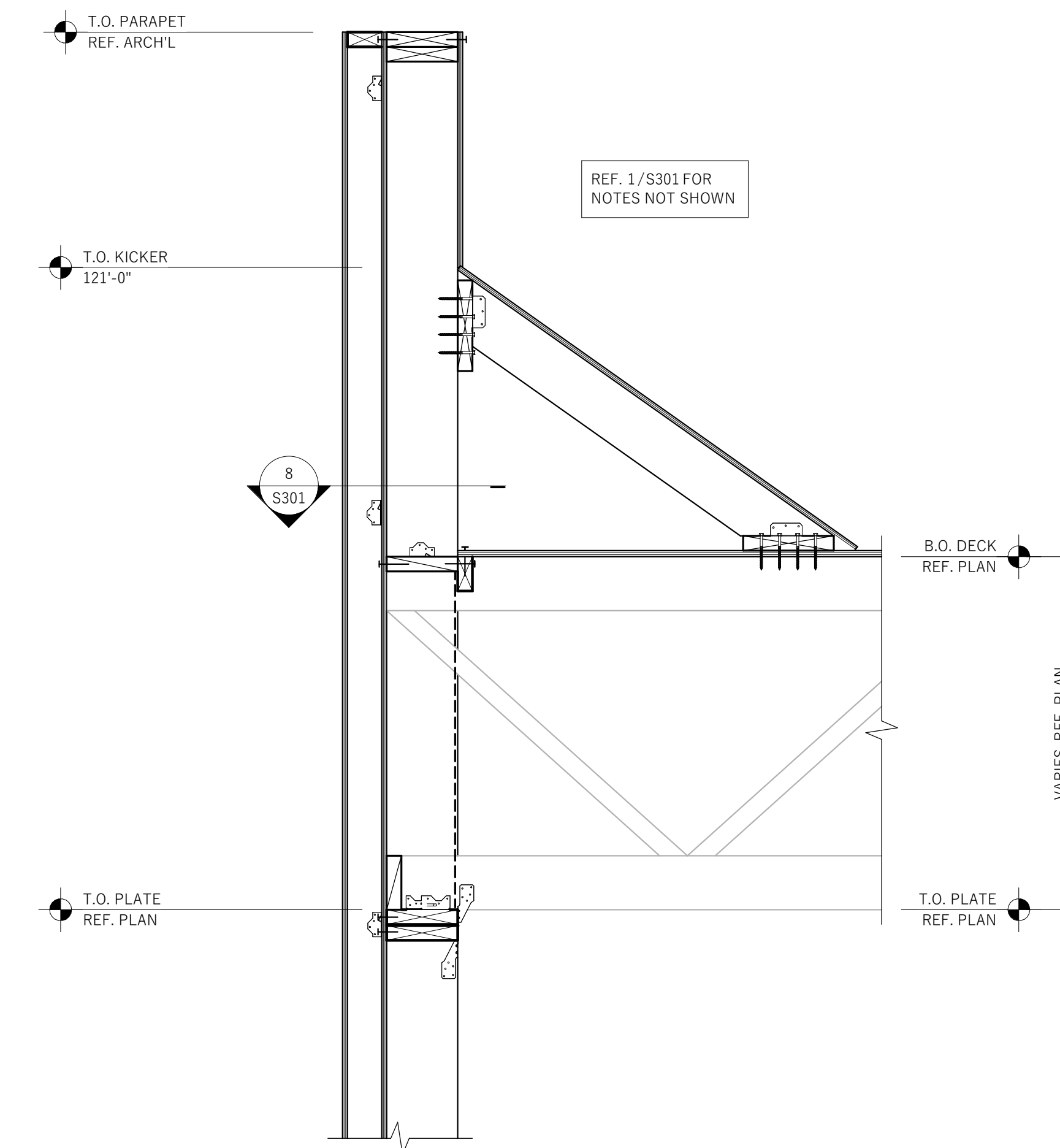
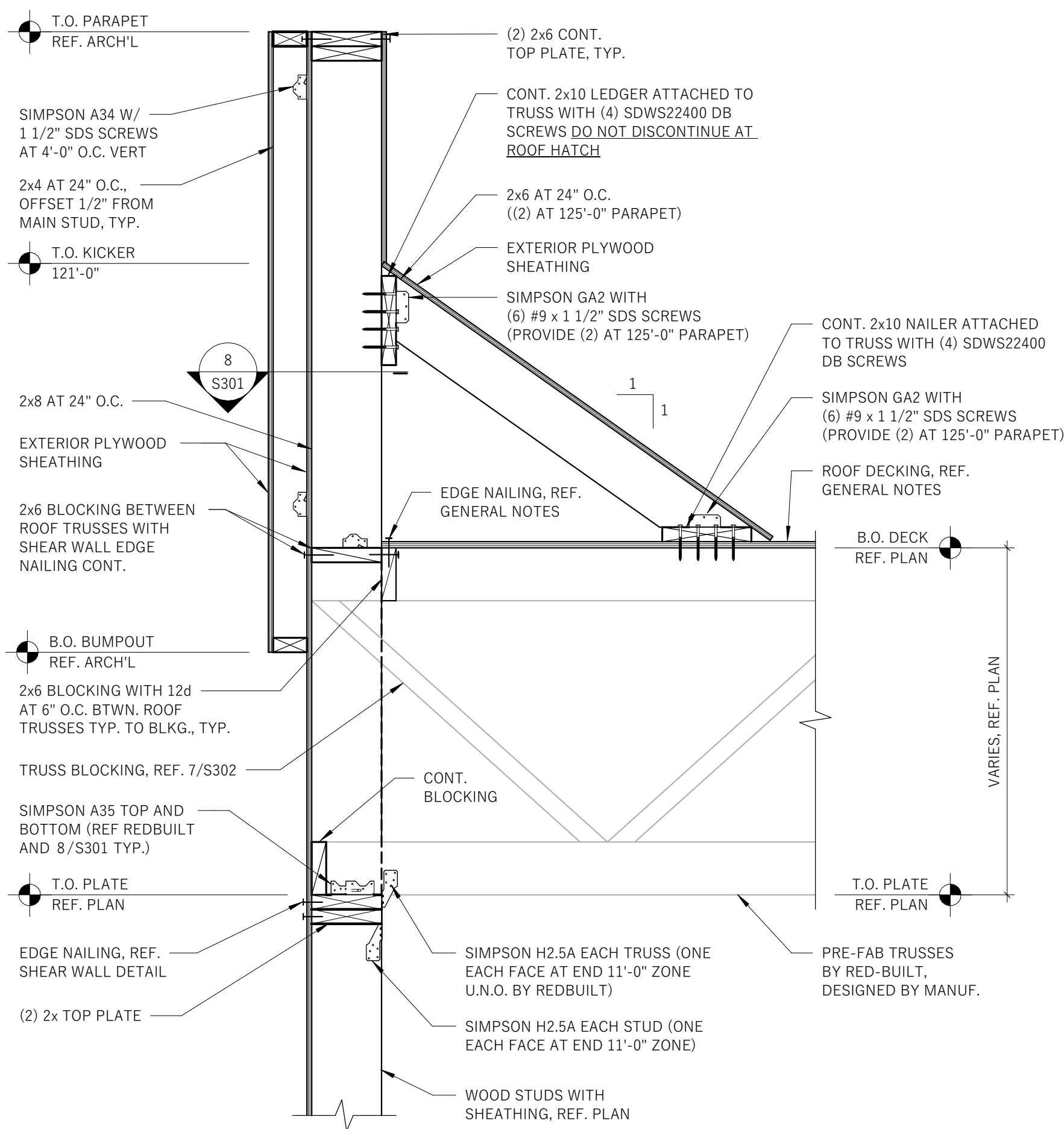
PERMIT SET - 08/12/2022

SHERWIN WILLIAMS

STORE #
XXXX
ADDRESS:
LOT 3, BLOCK "A"
HIGHWAY 973
MANOR, TX 78653

SHEET TITLE:
FOUNDATION DETAILS

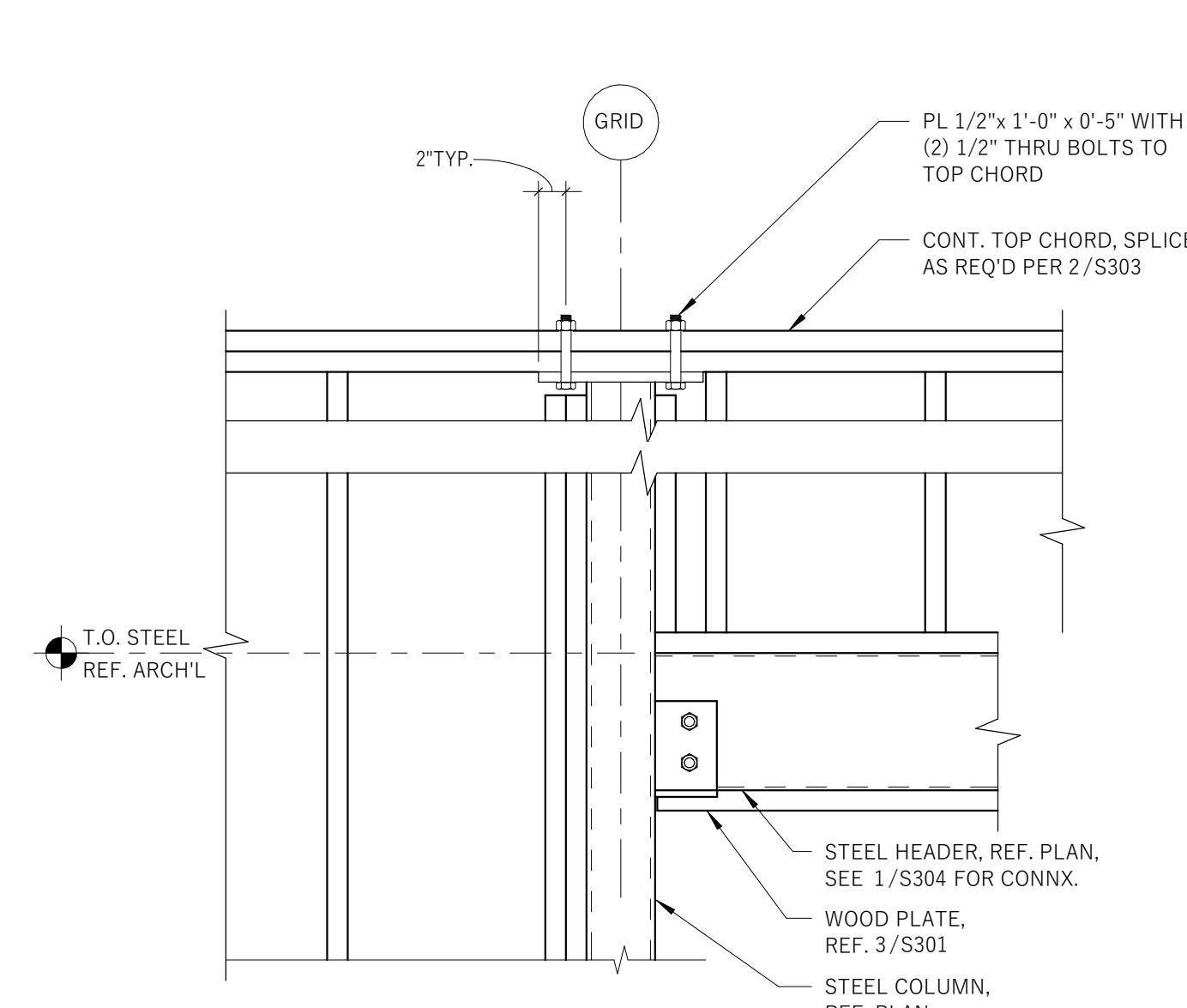
SHEET NUMBER:
S202



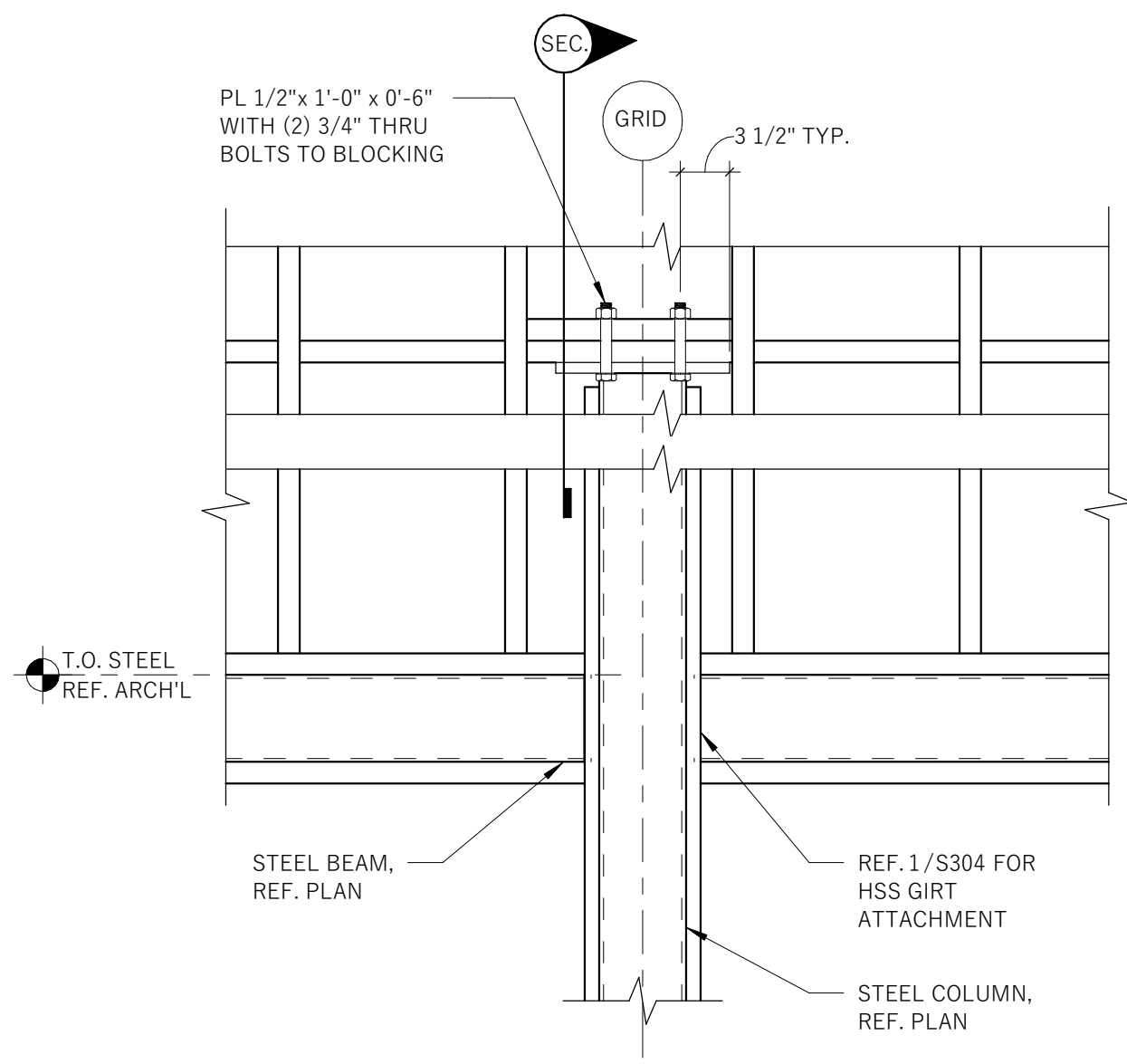
1 TYPICAL SECTION AT TRUSS BEARING
S301 1" = 1'-0"

2 SECTION AT BUMPOUT
S301 1" = 1'-0"

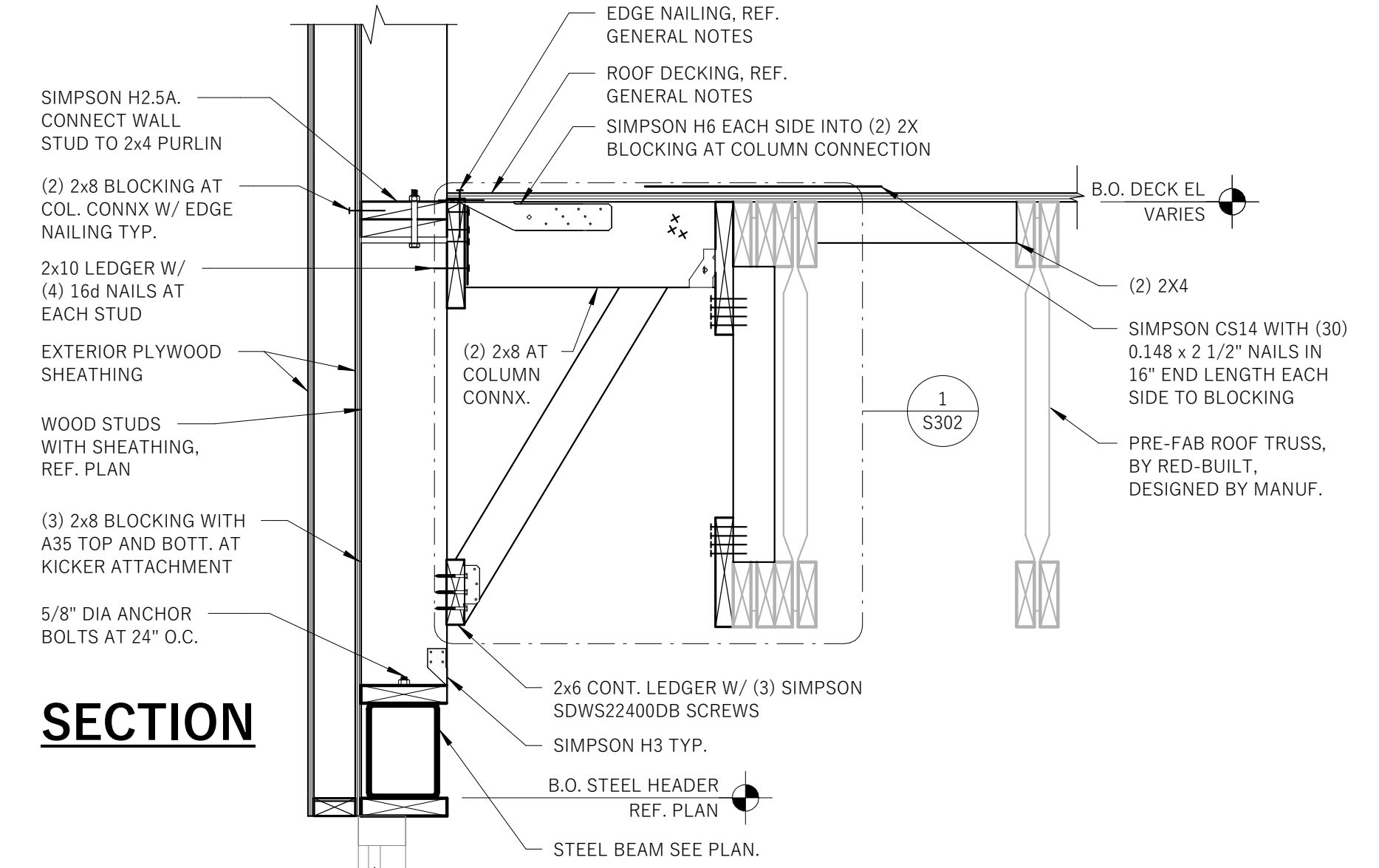
3 SECTION AT CANOPY
S301 1" = 1'-0"



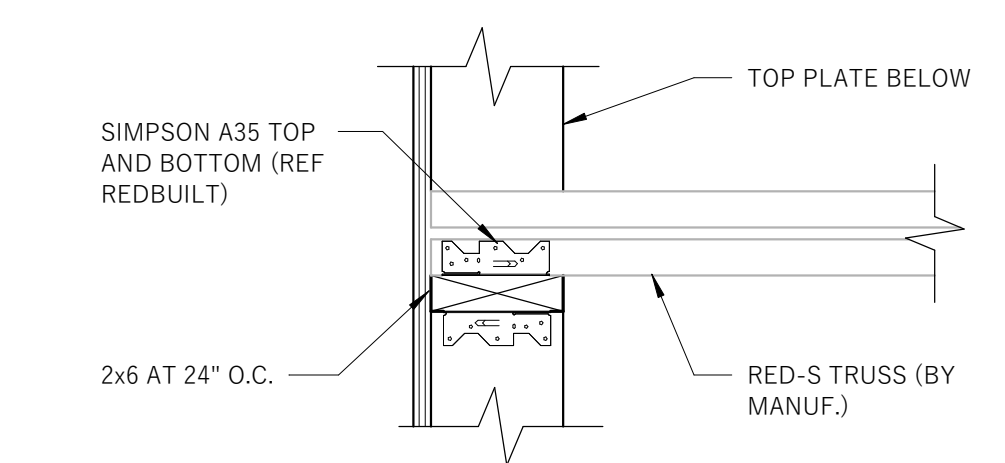
4 ELEVATION AT HSS HEADER
S301 1" = 1'-0"



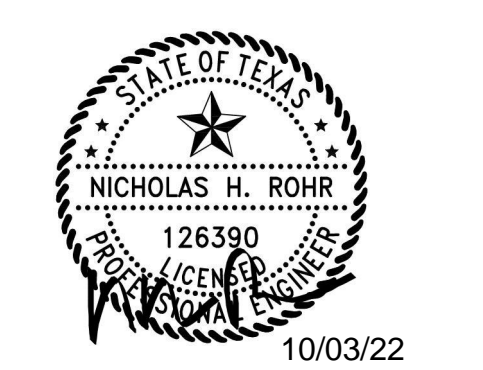
5 ELEVATION AT HSS HEADER
S301 1" = 1'-0"



SECTION



8 PLAN AT TRUSS BEARING
S301 1 1/2" = 1'-0"



LINGLE DESIGN GROUP, INC
15B WEST MAIN STREET
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5875
WWW.LINGLEDESIGN.COM



JCAA
4100 Wadsworth Blvd.
Wheat Ridge, CO 80033
p. 303.985.3280
TX F-14436
#22.102

PROJECT #:
XXXX
DRAWN BY: TN CHECKED BY: NHR

PERMIT SET - 08/12/2022

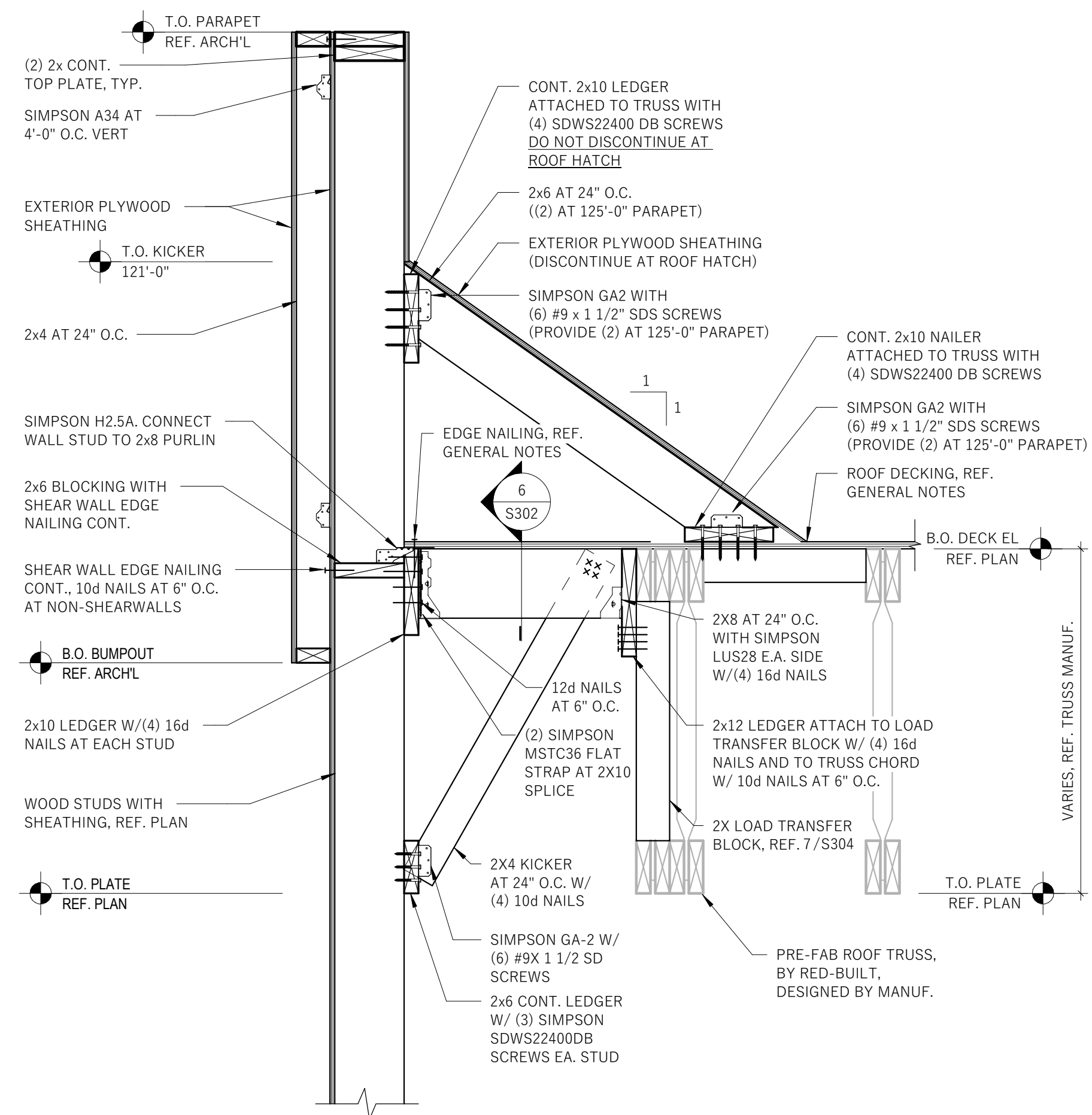
SHERWIN WILLIAMS

STORE #
XXXX

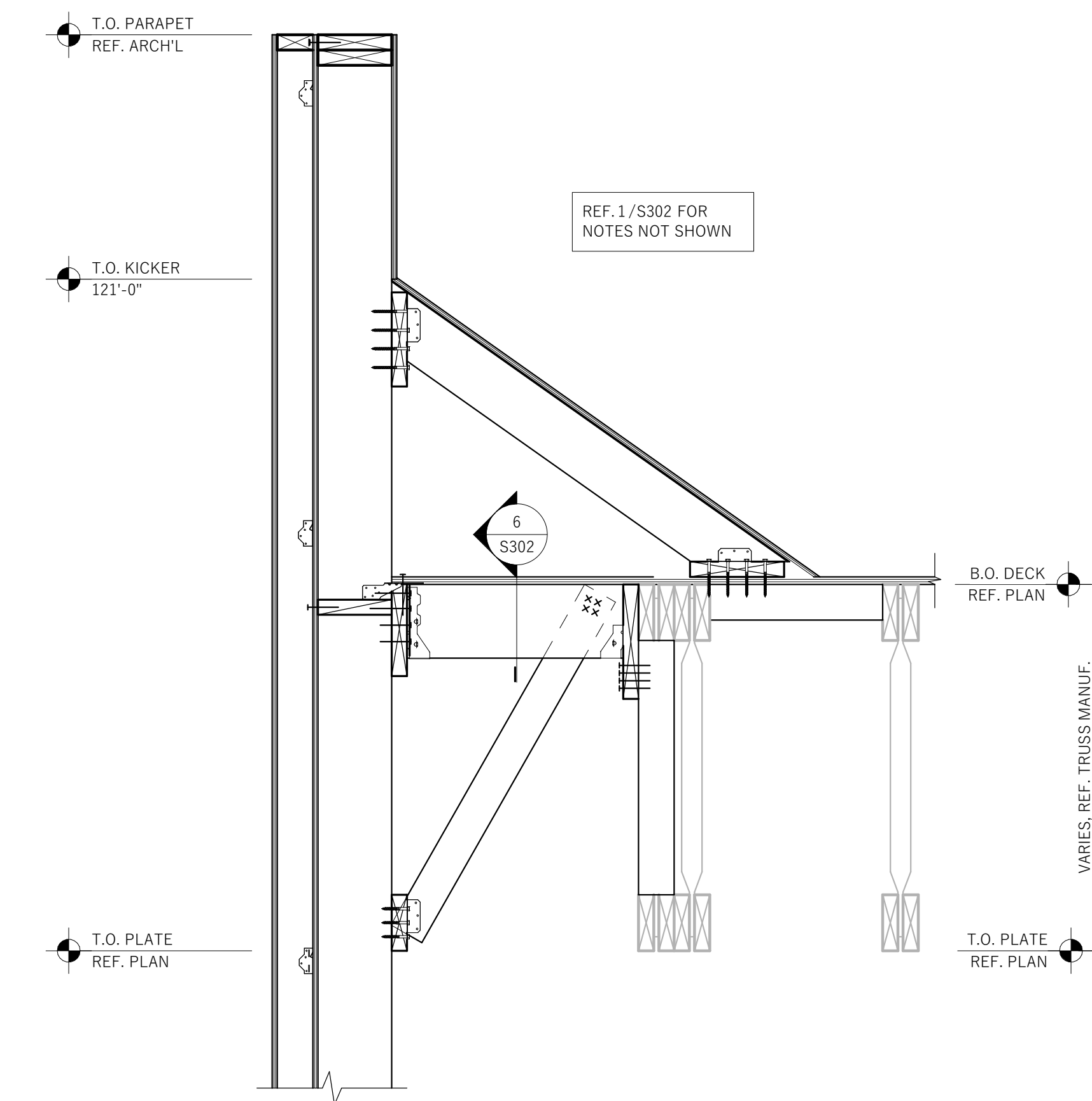
ADDRESS:
LOT 3, BLOCK "A"
HIGHWAY 973
MANOR, TX 78653

SHEET TITLE:
ROOF FRAMING DETAILS

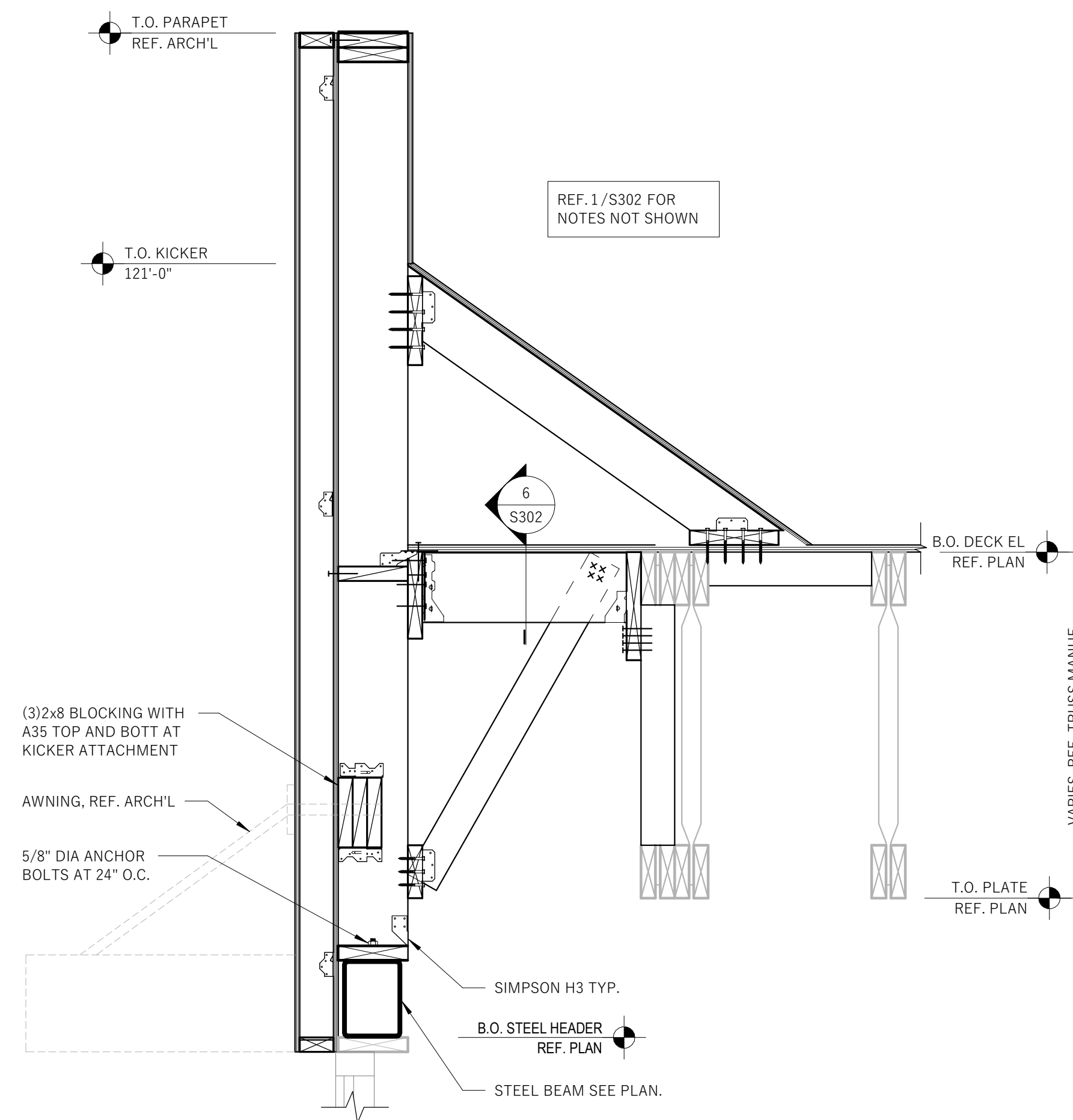
SHEET NUMBER:
S301



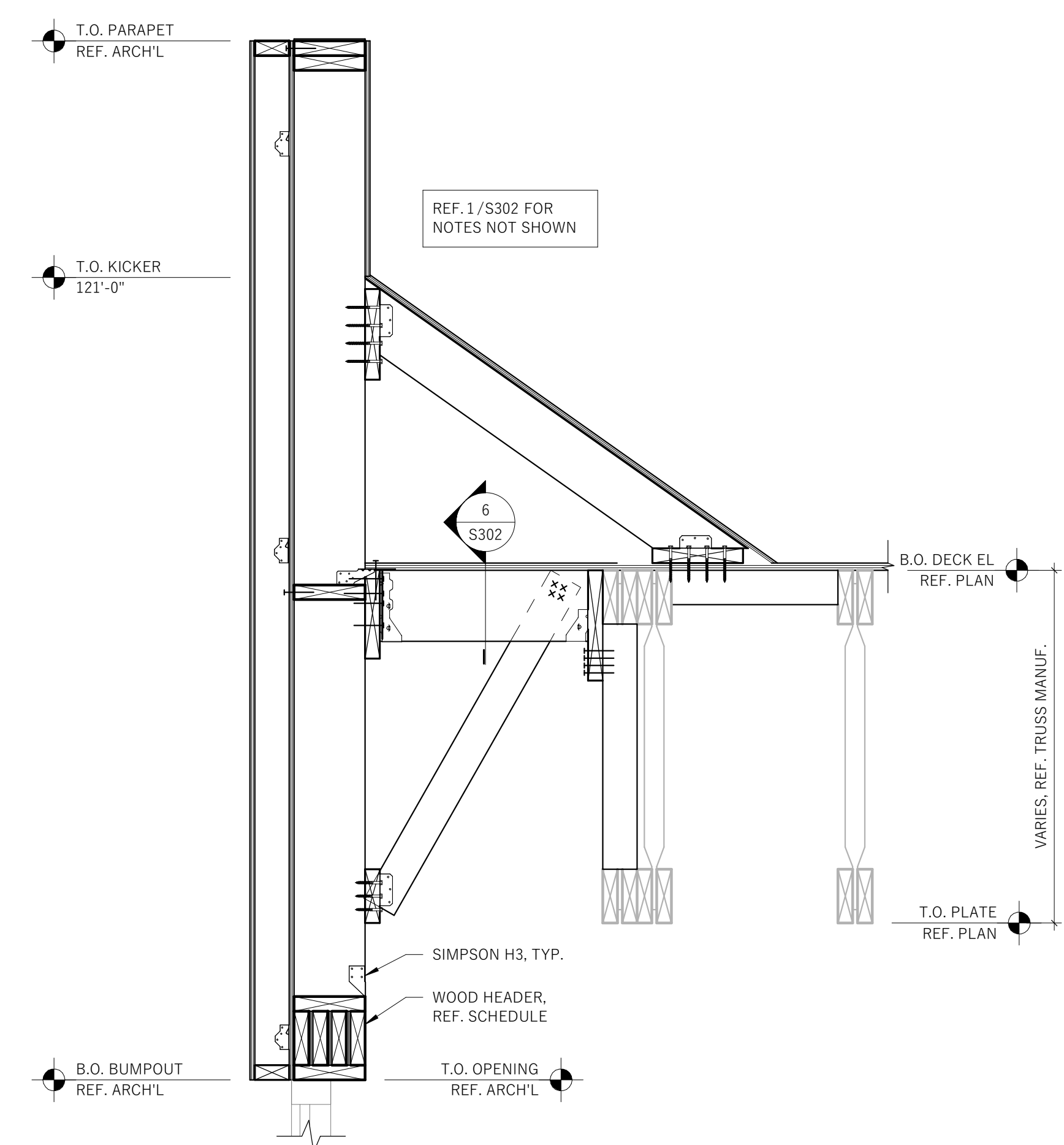
1
S302 1" = 1'-0"



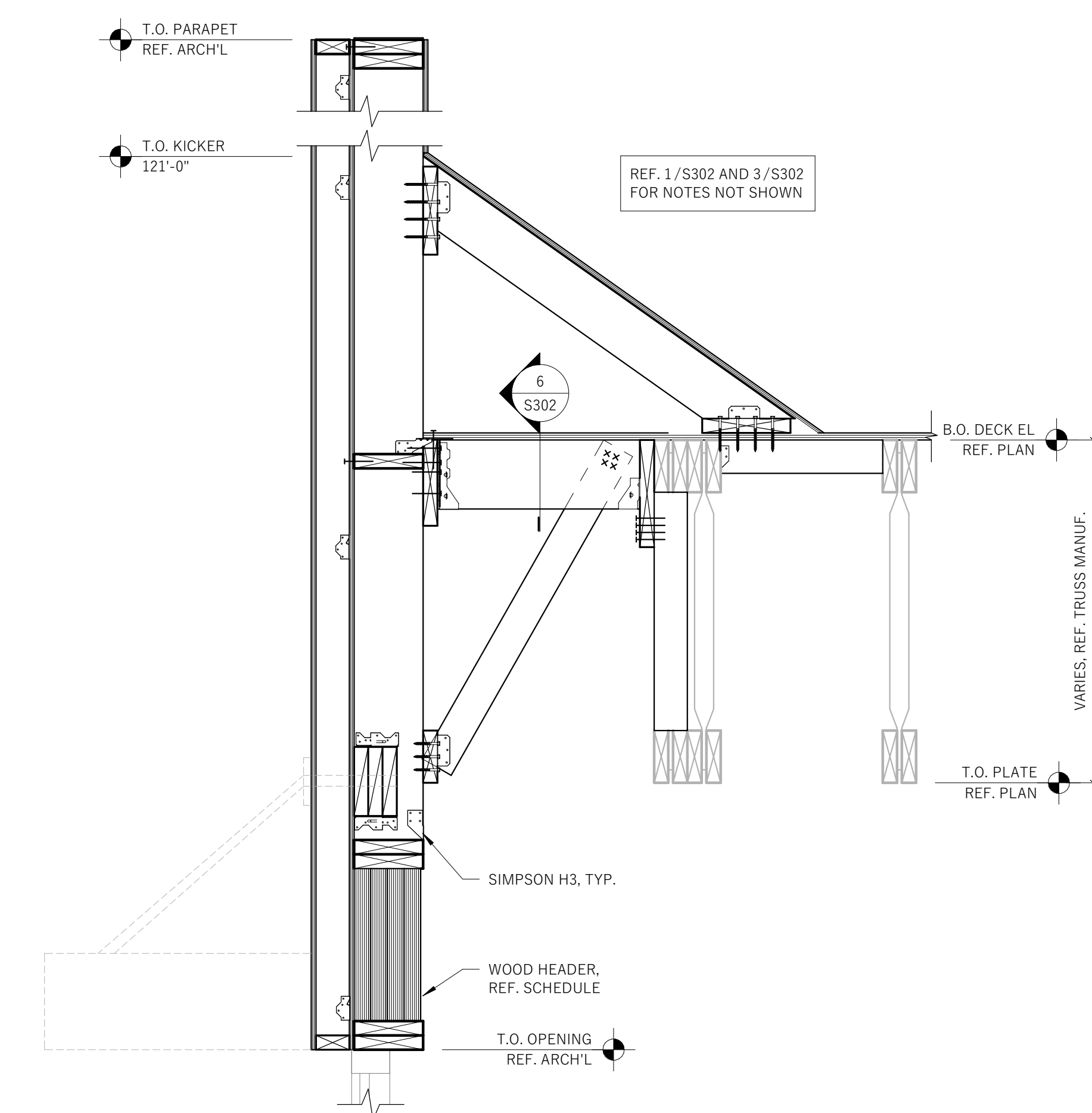
2
S302 1" = 1'-0"



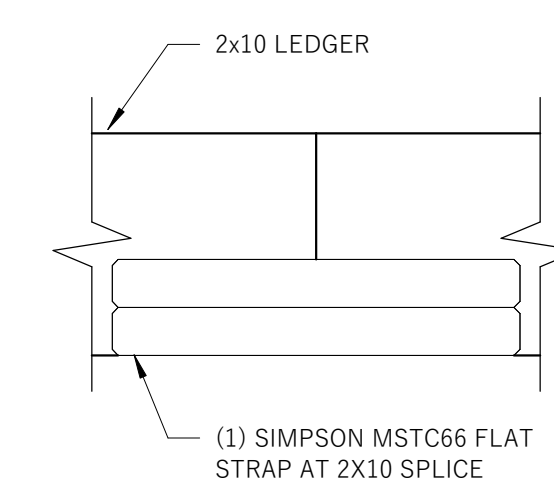
3
S302 1" = 1'-0"



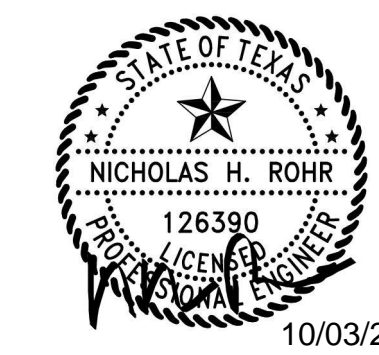
4
S302 1" = 1'-0"



5
S302 1" = 1'-0"



6
S302 1 1/2" = 1'-0"



LINGLE DESIGN GROUP, INC
15B WEST MAIN STREET
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5875
WWW.LINGLEDESIGN.COM

JCA
4100 Wadsworth Blvd.
Wheat Ridge, CO 80033
p. 303.985.3280
TX F-14436
#22,102

ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE LINGLE DESIGN GROUP, INC. THEY MAY NOT BE REPRODUCED, COPIED, REUSED, OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.

PROJECT #:
XXXX
DRAWN BY: TN CHECKED BY: NHR

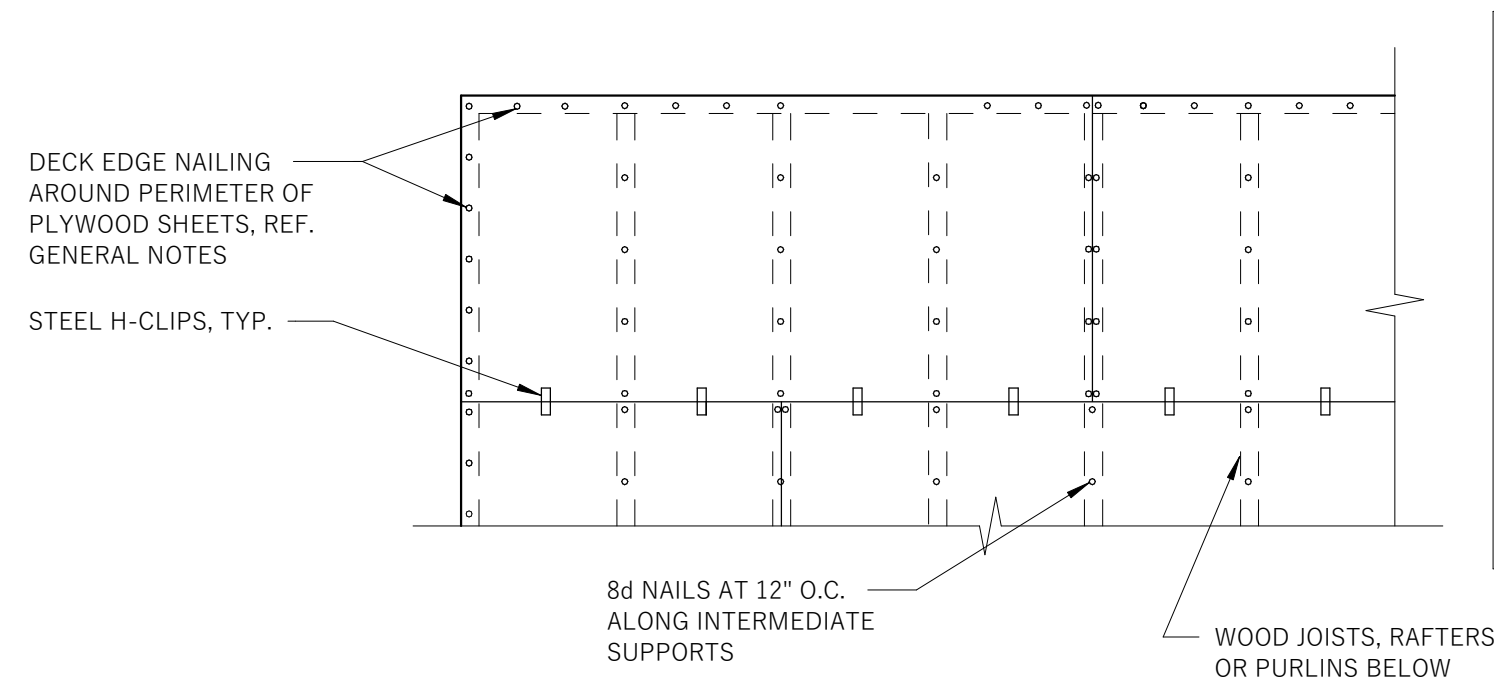
PERMIT SET - 0812/2022

SHERWIN WILLIAMS

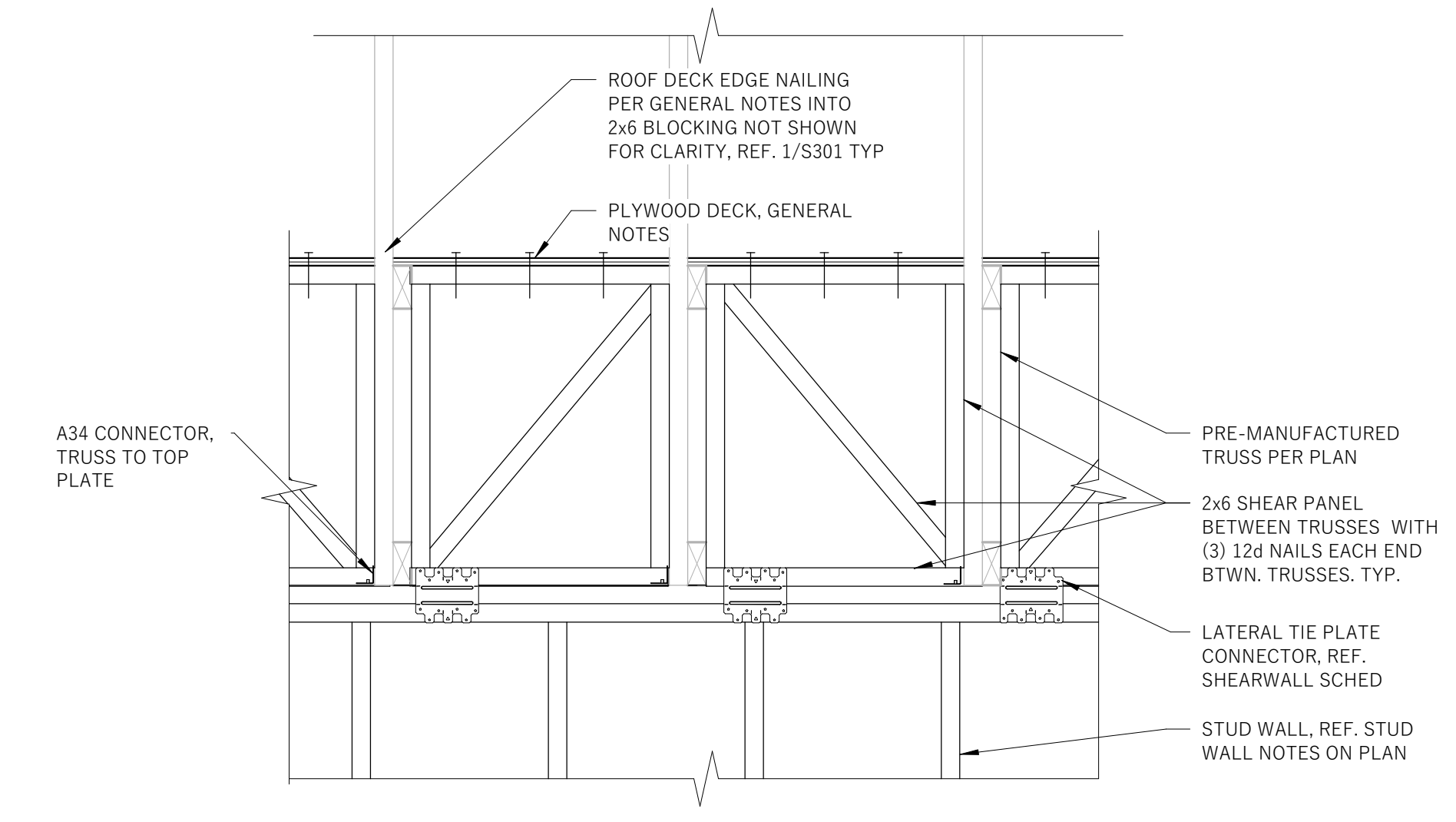
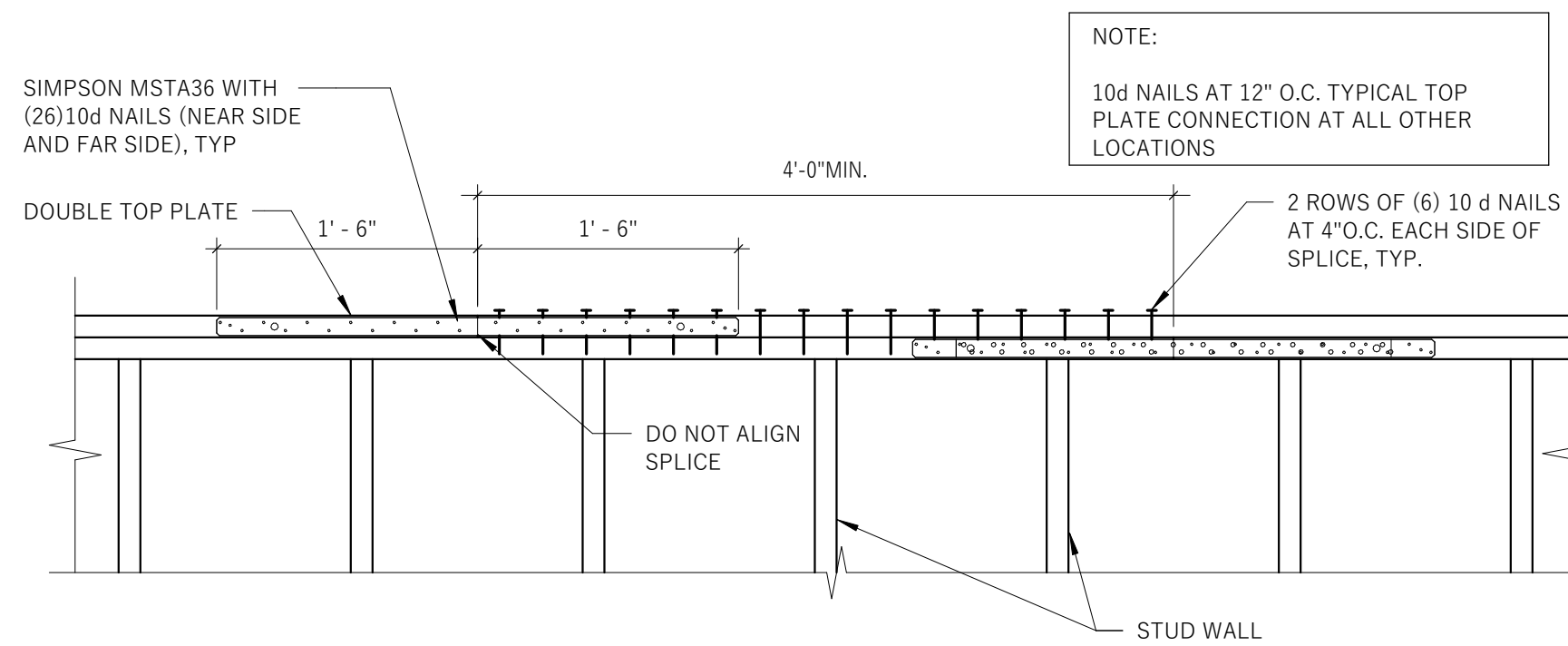
STORE #
XXXX
ADDRESS:
LOT 3, BLOCK "A"
HIGHWAY 973
MANOR, TX 78653

SHEET TITLE:
ROOF FRAMING DETAILS

SHEET NUMBER:
S302



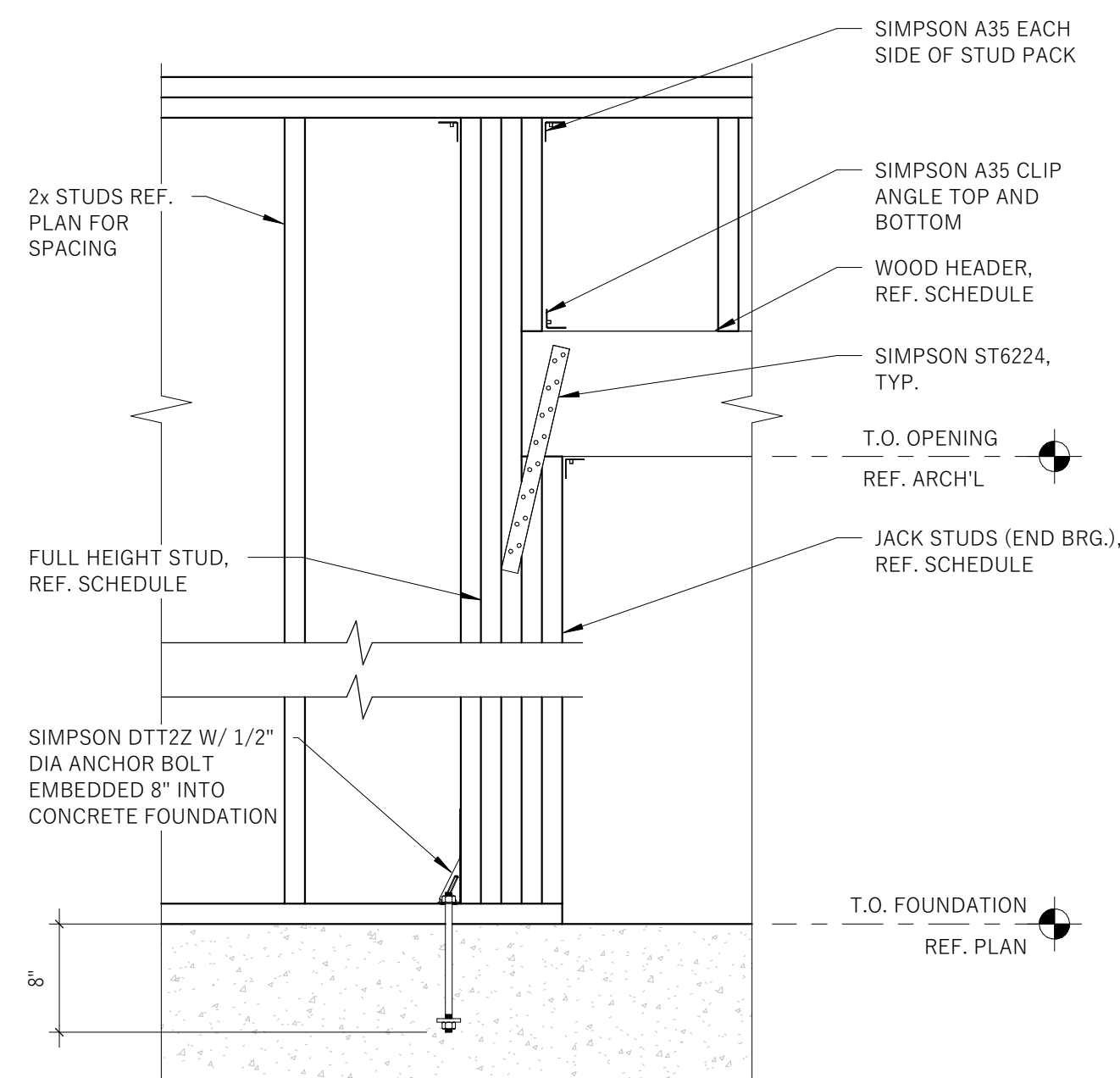
- PLYWOOD DIAPHRAGM NOTES**
- COMMON OR BOX NAILS SHALL BE USED FOR ALL DIAPHRAGM NAILING.
 - PROVIDE 1/8" GAP BETWEEN ALL SHEETS.
 - ALL PLYWOOD DECKING TO BE GRADE C-D WITH EXTERIOR GLUE. REF. GENERAL NOTES AND DETAILS FOR THICKNESS.
 - STAGGER ALL JOINTS IN PLYWOOD DECKING



1
S303 1" = 1'-0"

2
S303 1" = 1'-0"

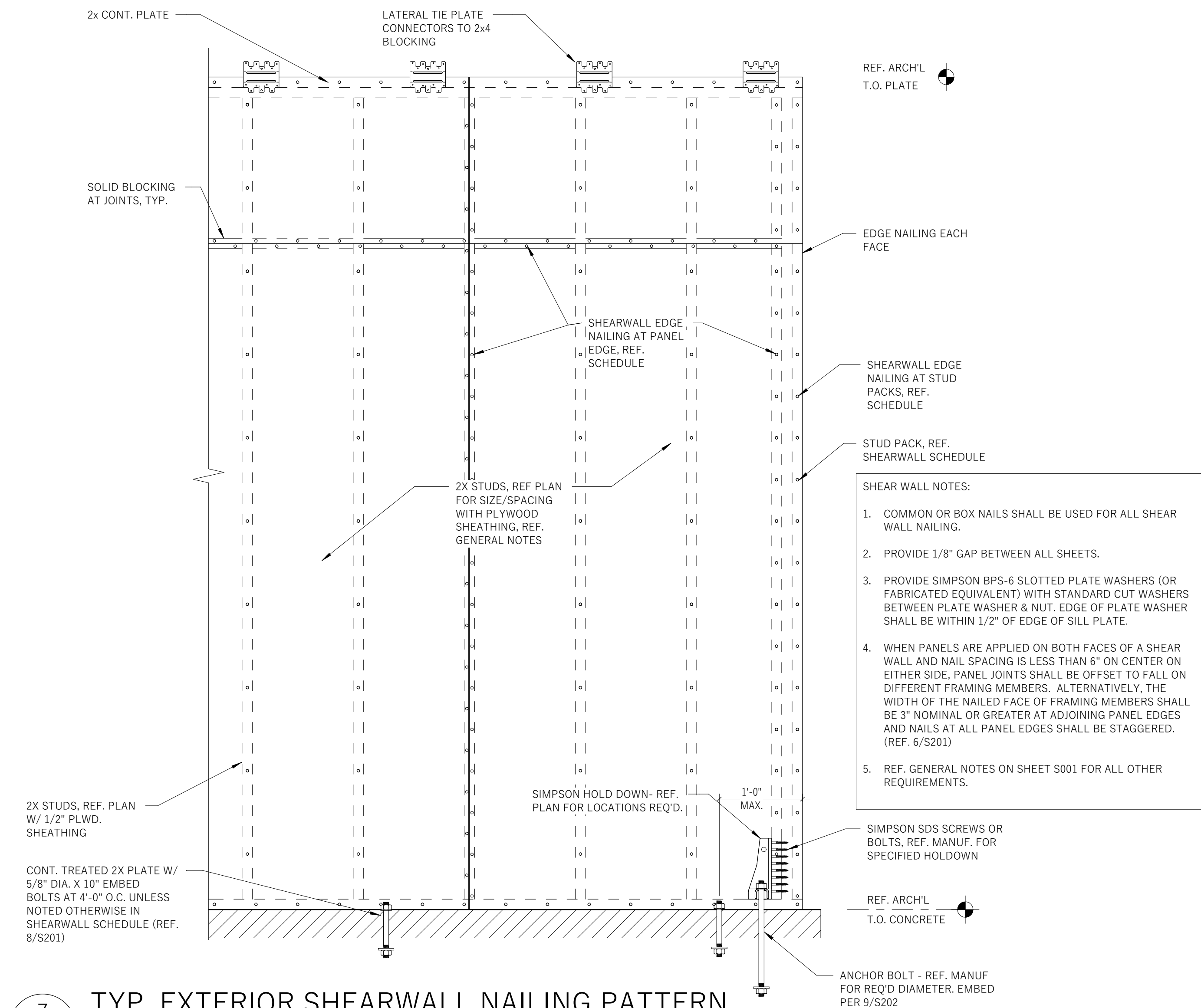
3
S303 1" = 1'-0"



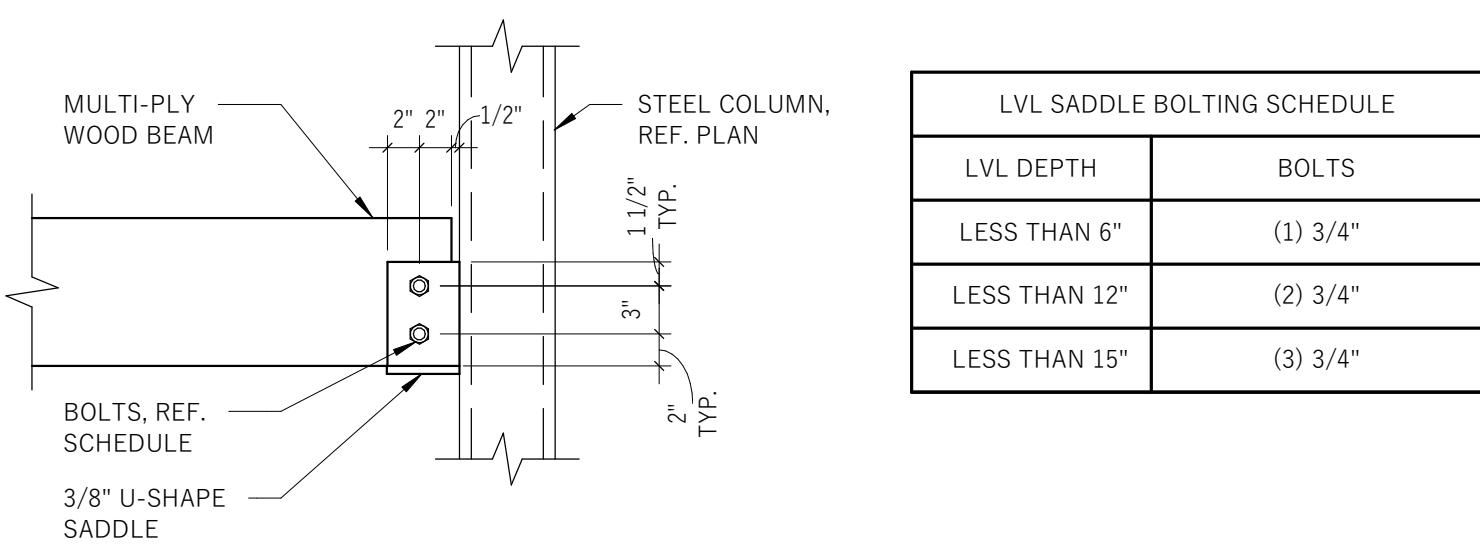
SIDE-LOADED MULTIPLE MEMBER CONNECTION SCHEDULE			
ASSEMBLY TYPE	NAILED CONN.	THROUGH BOLTED CONN.	STRUCTURAL WOOD SCREW CONN.
ASSEMBLY A	3 ROWS 12d COMMON WIRE NAILS AT 12" O.C.	2 ROWS 1/4" DIA. A325 BOLTS WITH WASHERS AT 12" O.C.	2 ROWS 1/4" DIA. x 3 1/2" LONG SCREWS AT 12" O.C.
ASSEMBLY B	NOT APPLICABLE	2 ROWS 1/4" DIA. A325 BOLTS WITH WASHERS AT 12" O.C.	NOT APPLICABLE

ASSEMBLY A 3 PLY	ASSEMBLY B 4 PLY
THROUGH	THROUGH

5
S303 1" = 1'-0"

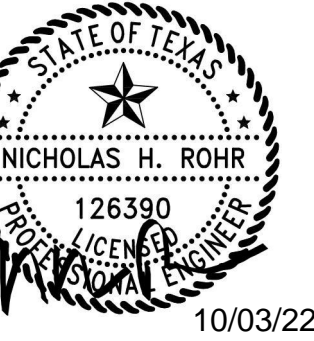


7
S303 1" = 1'-0"



LVL SADDLE BOLTING SCHEDULE	
LVL DEPTH	BOLTS
LESS THAN 6"	(1) 3/4"
LESS THAN 12"	(2) 3/4"
LESS THAN 15"	(3) 3/4"

6
S303 1" = 1'-0"



10/03/22
LINGLE DESIGN GROUP, INC
158 WEST MAIN STREET
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5875
WWW.LINGLEDESIGN.COM

JCAA
4100 Wadsworth Blvd.
Wheat Ridge, CO 80033
p. 303.985.3380
TX F-14436
#22.102

ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE LINGLE DESIGN GROUP, INC. THEY MAY NOT BE REVISED, COPIED, REPRODUCED, OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.

PROJECT #:
XXXX
DRAWN BY: TN CHECKED BY: NHR

PERMIT SET - 08/12/2022
△
△
△
△
△

SHERWIN WILLIAMS

STORE #:
XXXX

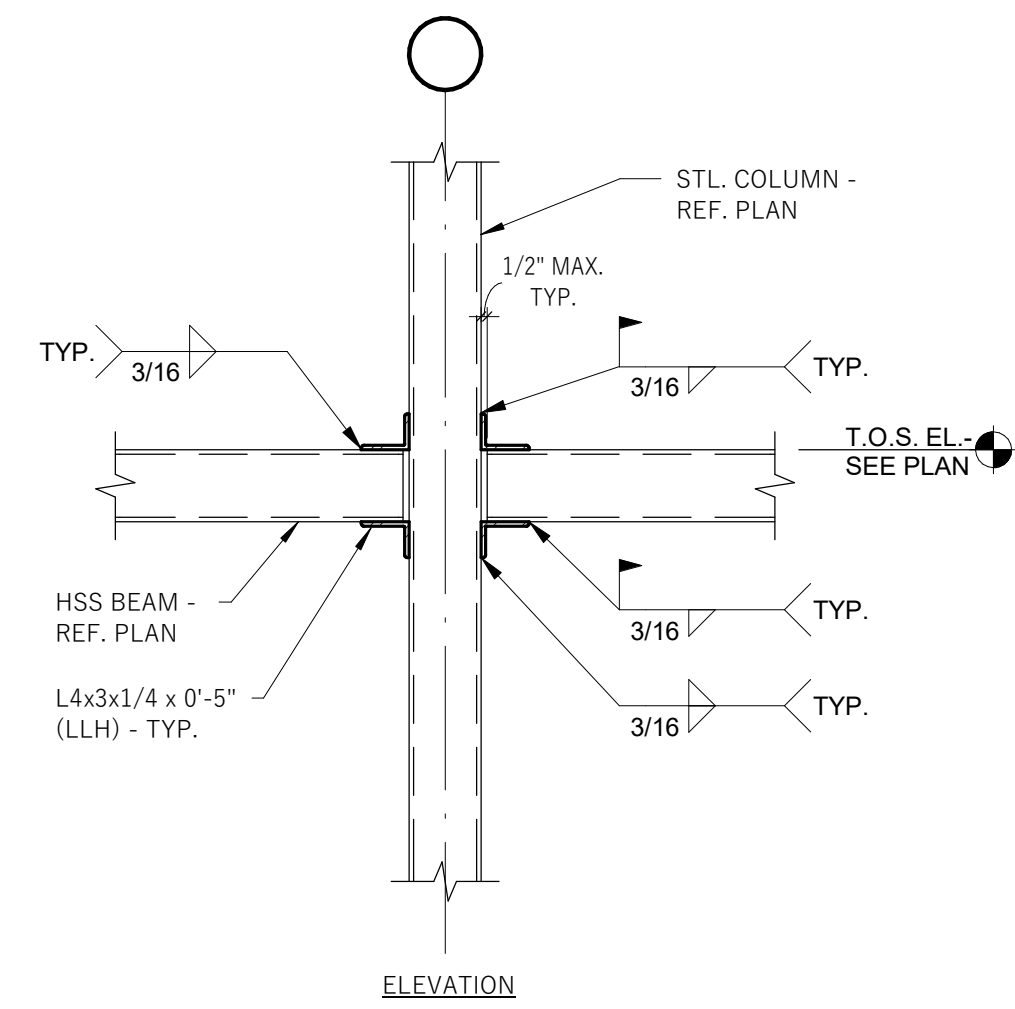
ADDRESS:
LOT 3, BLOCK "A"
HIGHWAY 973
MANOR, TX 78653

SHEET TITLE:

TYP. FRAMING DETAILS

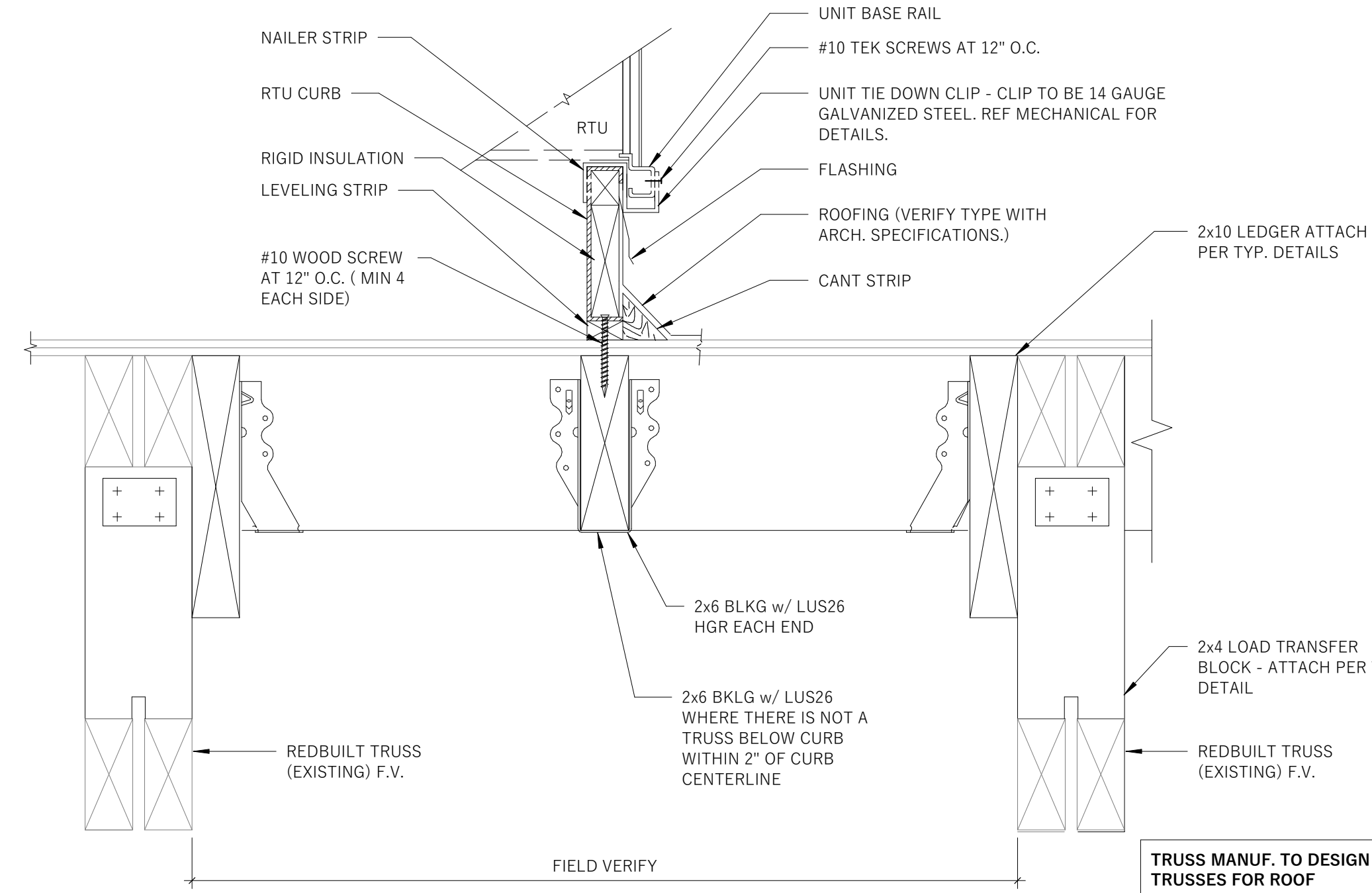
SHEET NUMBER:

S303



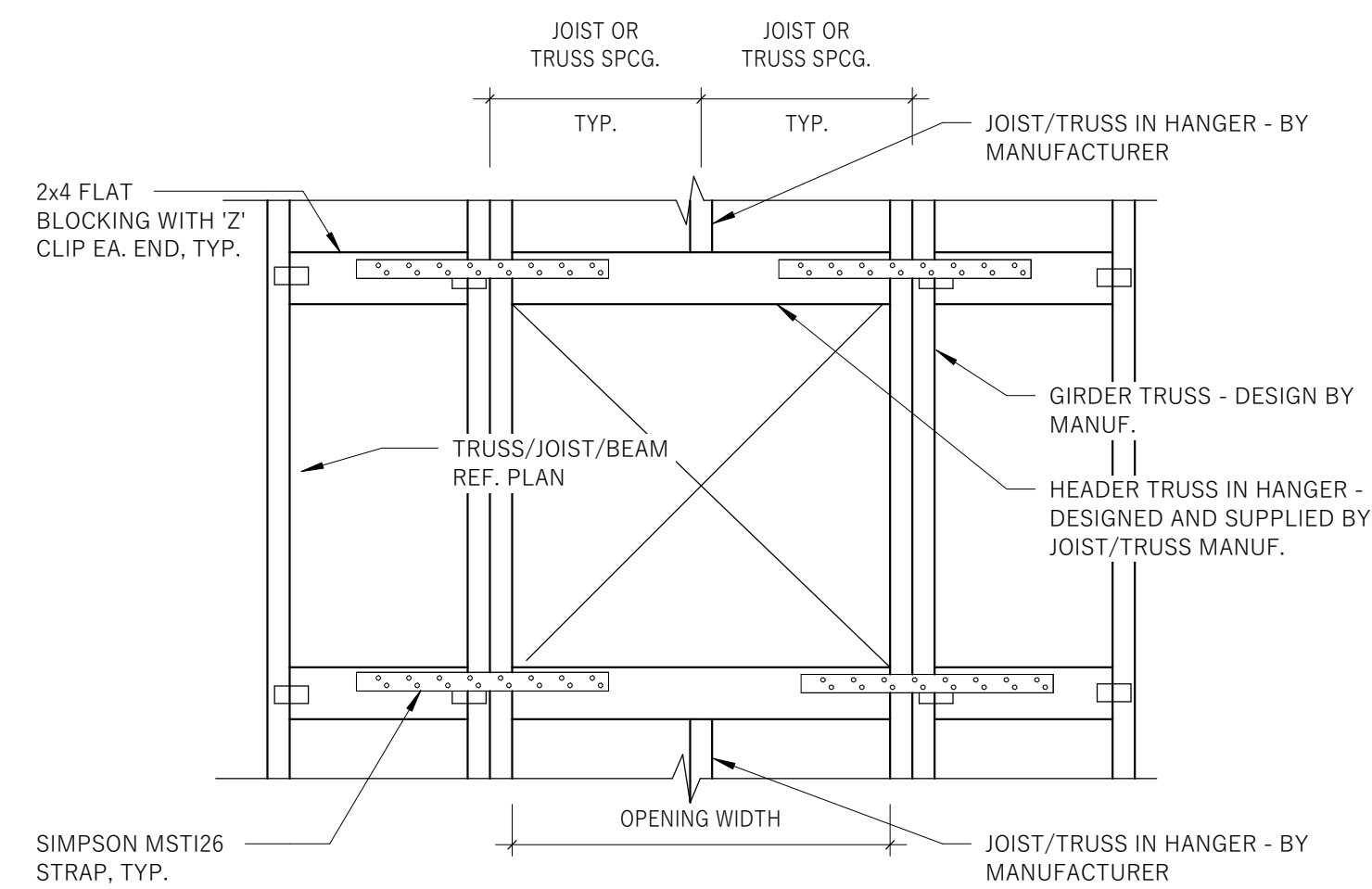
1
TYPICAL HSS GIRT TO COLUMN CONNECTION

S304 3/4" = 1'-0"



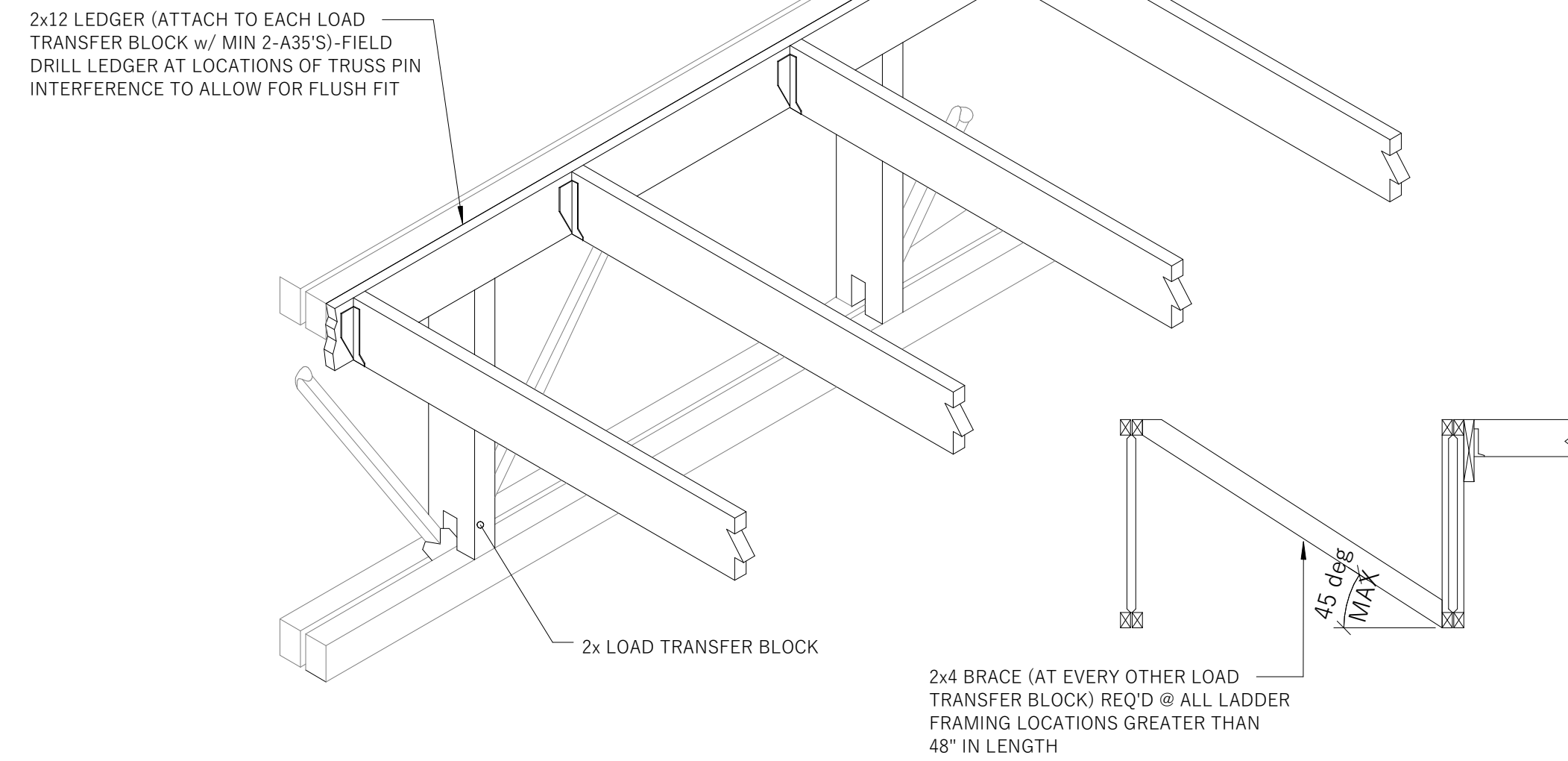
2
CURB ATTACHEMENT DETAIL - REDBUILT TRUSS

S304 1" = 1'-0"



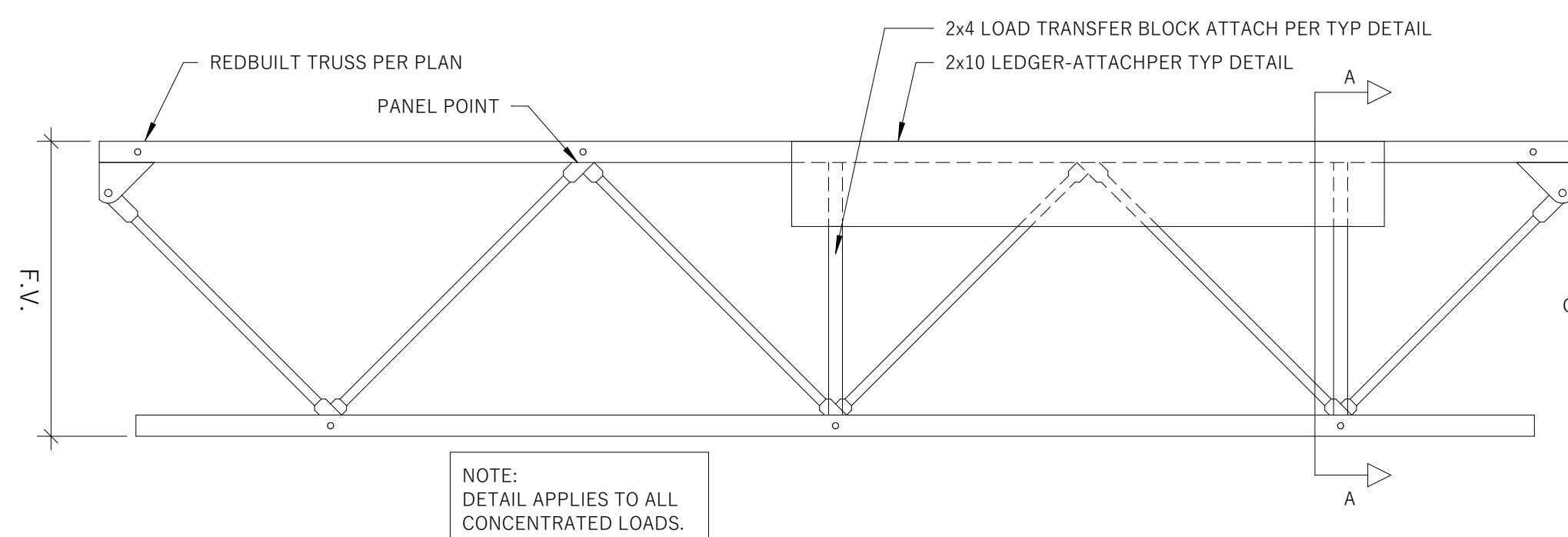
3
ROOF HATCH OPENING

S304 1" = 1'-0"



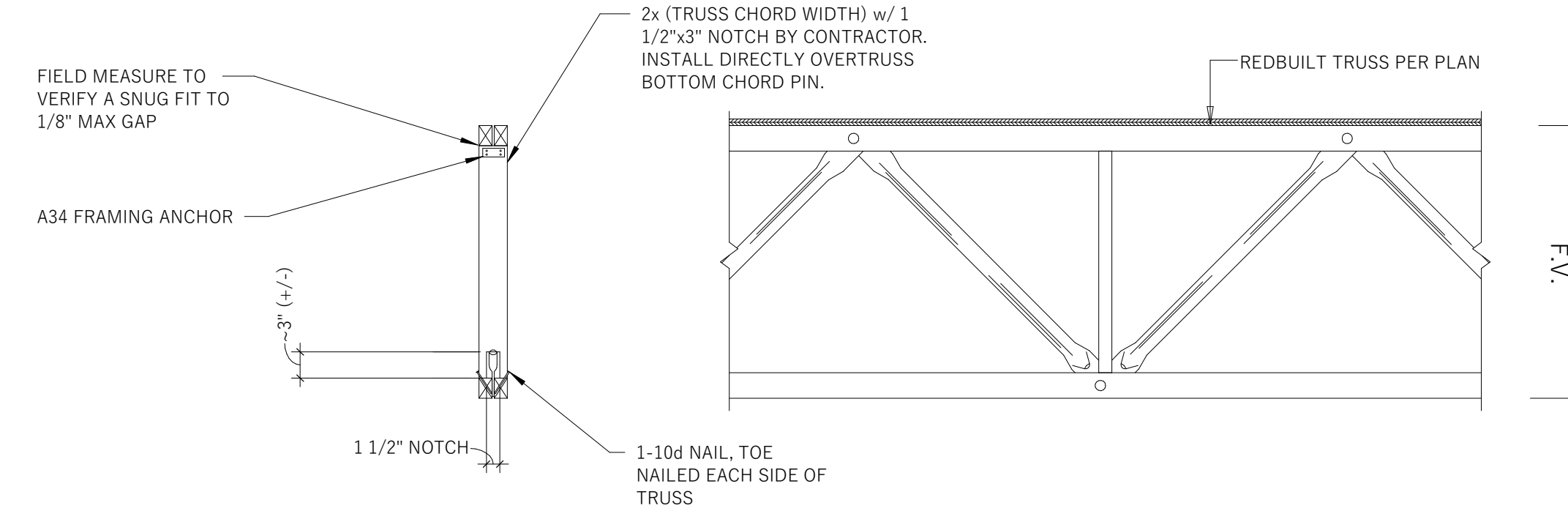
4
TYP. REDBUILT BRACING & 2x FRAMING DETAIL

S304 3/4" = 1'-0"



6
TYP. REDBUILT TRUSS ATTACHEMENT DETAIL

S304 1" = 1'-0"



7
TYP. REDBUILT LOAD TRANSFER BLOCK

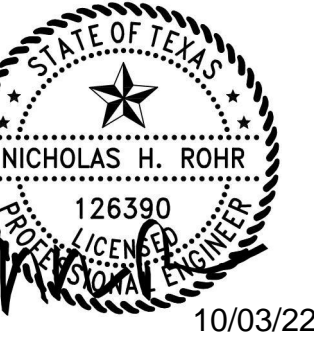
S304 1" = 1'-0"

NAILING SCHEDULE	
ROOF CONNECTIONS	NAILING
1. BLOCKING BTWN. CEILING JOISTS, RAFTERS OR TRUSSES TO TOP PL. OR OTHER FRAMING BELOW, TOENAIL EA END	3-8D
BLOCKING BTWN. RAFTERS OR TRUSS NOT AT THE WALL TOP PL. TO RAFTER OR TRUSS	2-8D, TOENAIL EA END OR 2-16D, END NAIL
FLAT BLOCKING TO TRUSS AND WEB FILLER, FACE NAIL	16D AT 6" O.C.
2. CEILING JOISTS TO TOP PL, TOENAIL EA END	3-8D
3. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS, FACE NAIL	3-16D
4. CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT), FACE NAIL	3-16D MINIMUM REF. 2015 IBC TABLE 2308.7.3.1
5. COLLAR TIE TO RAFTER, FACE NAIL	3-10D
6. RAFTER OR ROOF TRUSS TO TOP PL, TOENAIL	3-10D
7. ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTER TO 2" RIDGE BEAM	2-16D END NAIL OR 3-10D TOENAIL
WALL CONNECTIONS	NAILING
8. STUD TO STUD (NOT AT BRACE WALL PANELS), FACE NAIL	16D AT 24" O.C. OR 10D AT 16" O.C.
9. STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS), FACE NAIL	16D AT 16" O.C.
10. BUILT-UP HEADER (2" TO 2" HEADER), FACE NAIL	16D AT 16" O.C. EA EDGE
11. CONTINUOUS HEADER TO STUD, TOENAIL	4-8D
12. TOP PL TO TOP PL, FACE NAIL	16D AT 16" O.C.
13. TOP PL TO TOP PL, AT END JOINTS, FACE NAIL EA. SIDE OF END JOINT (MIN 24" LAP SPLICE EA SIDE OF END JOIST)	8-16D
14. BOTTOM PL TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACE WALL PANELS), FACE NAIL	16D AT 16" O.C.
15. BOTTOM PL TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACE WALL PANELS, FACE NAIL	2-16D AT 16" O.C.
16. STUD TO TOP OR BOTTOM PL	4-8D TOENAIL OR 2-16D END NAIL
17. TOP OR BOTTOM PL TO STUD, END NAIL	2-16D
18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS, FACE NAIL	2-16D
19. 1" BRACE TO EA STUD AND PL, FACE NAIL	2-8D
20. 1" x 6" SHEATHING TO EA BEARING, FACE NAIL	2-8D
21. 1" x 8" AND WIDER SHEATHING TO EA BEARING, FACE NAIL	3-8D
FLOOR CONNECTIONS	NAILING
22. JOIST TO SILL, TOP PL, OR GIRDER, TOENAIL	3-8D
23. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PL, SILL OR OTHER FRAMING BELOW, TOENAIL	8D AT 6" O.C.
24. 1" x 6" SUBFLOOR OR LESS TO EA JOIST, FACE NAIL	2-8D
25. 2" SUBFLOOR TO JOIST OR GIRDER, FACE NAIL	2-16D
26. 2" PLANKS (PLANK AND BEAM - FLOOR AND ROOF), FACE NAIL EA BEARING	2-16D
27. BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS, FACE NAIL	20D AT 32" O.C. AT TOP AND BOTTOM AND STAGGERED 2-20D AT ENDS AND AT EA SPLICE
28. LEDGER STRIP SUPPORTING JOISTS OR RAFTERS, FACE NAIL EA JOIST OR RAFTER	3-16D
29. JOIST TO BAND JOIST OR RIM JOIST, END NAIL	3-16D
30. BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS, TOENAIL EA END	2-8D

2015 IBC NAILING SCHEDULE

5
NALING SCHEDULE

S304 1/4" = 1'-0"



10/03/22

LINGLEDESIGNGROUP, INC
158 WEST MAIN STREET
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5875
WWW.LINGLEDESIGN.COM

JCA
4100 Wadsworth Blvd.
Wheat Ridge, CO 80033
p. 303.985.3280
TX F-14436

ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE LINGLE DESIGN GROUP, INC. THEY MAY NOT BE REPRODUCED, COPIED, REUSED, OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.

PROJECT #:
XXXX
DRAWN BY: TN CHECKED BY: NHR

PERMIT SET - 08/12/2022

STORE #:
XXXX
ADDRESS:
LOT 3, BLOCK "A"
HIGHWAY 973
MANOR, TX 78653
SHEET TITLE:
TYPICAL FRAMING
DETAILS
SHEET NUMBER:
S304

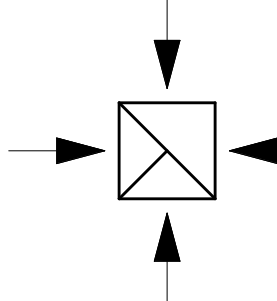
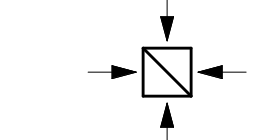
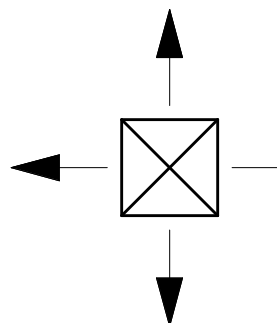
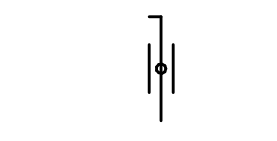
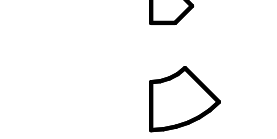
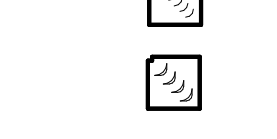



SHERWIN WILLIAMS

STORE #:
XXXX
ADDRESS:
LOT 3, BLOCK "A"
HIGHWAY 973
MANOR, TX 78653
SHEET TITLE:
TYPICAL FRAMING
DETAILS
SHEET NUMBER:
S304

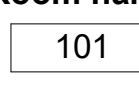

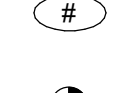

TYPICAL FRAMING
DETAILS

SHEET NUMBER:
S304

MECHANICAL SYMBOLS

	12"x12"	RECTANGULAR DUCT ANNOTATION
	12"x12"	FLAT OVAL DUCT ANNOTATION
	12"Ø	ROUND DUCT ANNOTATION
	VAV-1	MECHANICAL EQUIPMENT TAG
	1 200 CFM 8"Ø, TYP. (3)	GRILLE, REGISTER, OR DIFFUSER TAG
	MARK AIR FLOW NECK SIZE, TYPICAL COUNT	
	(TS)	TEMPERATURE SENSOR
	(T)	THERMOSTAT
	(CO)	CARBON MONOXIDE SENSOR
	(CO2)	CARBON DIOXIDE SENSOR
	(OC)	OCCUPANCY SENSOR
	(S)	OTHE SENSOR - SEE PLANS FOR DESCRIPTION
	-----	CONTROL WIRE/CONNECTION
	HWS	HEATING WATER SUPPLY
	HWR	HEATING WATER RETURN
	CHWS	CHILLED WATER SUPPLY
	CHWR	CHILLED WATER RETURN
	CWS	CONDENSER WATER SUPPLY
	CWR	CONDENSER WTER RETURN
	○	PIPE UP
	○	PIPE DOWN
	J	PIPE TEE DOWN
	∨	PIPE CAP
	∩	PIPE ELBOW
	∩	PIPE REDUCER
	∩	PIPE TEE
	HWR	HEATING WATER RETURN
	HWS	HEATING WATER SUPPLY
	MA	MIXED AIR
	(N)	NEW
	NG	NATURAL GAS
	OSD	ON-BOARD DAMPER
	OSA	OUTSIDE AIR
	OST	OVERFLOW STORM
	(R)	RELOCATED
	RA	RETURN AIR
	SA	SUPPLY AIR
	SP	STATIC PRESSURE
	ST	STORM
	T-STAT	THERMOSTAT
	TDH	TOTAL DYNAMIC HEAD
	TSP	TOTAL STATIC PRESSURE
	VAV	VARIABLE AIR VOLUME
	VFD	VARIABLE FREQUENCY DRIVE
	WC	WATER COLUMN
	WP	WORKING PRESSURE
	WPD	WATER PRESSURE DROP

GENERAL SYMBOLS

Room name	ROOM NAME	ROOM TAG
	ROOM NUMBER	
	VIEW NUMBER	ENLARGED VIEW TAG
	SHEET NAME	
	VIEW NUMBER	SECTION VIEW TAG
	SHEET NUMBER	
	VIEW NUMBER/SHEET NUMBER	VIEW REFERENCE
	SHEET NOTE	
	POINT OF CONNECTION TO EXISTING	

ABBREVIATION DESCRIPTION

AD	ACCESS DOOR
AF	AIR FOIL
AFF	ABOVE FINISHED FLOOR
APD	AIR PRESSURE DROP
BAS	BUILDING AUTOMATION SYSTEM
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CV	CONSTANT VOLUME
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
(D)	DEMO'D
DDC	DIRECT DIGITAL CONTROL
DIFF	DIFFUSER
(E)	EXISTING
EA	EXHAUST AIR
EMS	ENERGY MANAGEMENT SYSTEM
ESP	EXTERNAL STATIC PRESSURE
FC	FORWARD CURVED
FD	FLOOR DRAIN
FS	FLOOR SINK
GR	GRILLE
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
MA	MIXED AIR
(N)	NEW
NG	NATURAL GAS
OSD	ON-BOARD DAMPER
OSA	OUTSIDE AIR
OST	OVERFLOW STORM
(R)	RELOCATED
RA	RETURN AIR
SA	SUPPLY AIR
SP	STATIC PRESSURE
ST	STORM
T-STAT	THERMOSTAT
TDH	TOTAL DYNAMIC HEAD
TSP	TOTAL STATIC PRESSURE
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
WC	WATER COLUMN
WP	WORKING PRESSURE
WPD	WATER PRESSURE DROP

CODES & DESIGN CRITERIA

JURISDICTION:	CITY OF MANOR, TEXAS
MECHANICAL CODE:	2015 IMC
ENERGY CODE:	2015 IECC
LOCAL AMMENDMENTS:	AS AMMENDED IN 2016
CLIMATE ZONE:	2B
PROJECT ELEVATION:	531'
WINTER DESIGN DB:	25.7 DEG. F
SUMMER DESIGN DB/WB:	100.2/74.1 DEG. F
DB DESIGN FOR AIR COOLED EQUIPMENT:	105 DEG. F
INDOOR HEATING SET POINT(S):	70 DEG. F (OCC)
INDOOR COOLING SET POINT(S):	74 DEG. F (OCC)
OCCUPANCY SCHEDULE:	OFFICES: M-F 0730-1730 RETAIL SPACE: M-SA 0900-2200

SHEET LIST				
Sheet Number	Sheet Name	Current Revision	Current Revision Date	Current Revision Description
M001	Mechanical Cover Sheet			
M002	Mechanical Equipment Schedules & Calculations			
M003	Mechanical Specifications			
M004	Mechanical Specifications			
M005	Mechanical Details			
M006	Mechanical Comcheck			
M100	Mechanical Floor Plan			
M200	Mechanical Roof Plan			

MECHANICAL GENERAL NOTES

- DO NOT SCALE DRAWINGS.
- CONTRACTOR SHALL COORDINATE WORK INDICATED HEREON W/ PLUMBING, ELECTRICAL & FIRE PROTECTION SECTIONS. SUBMIT 1/4" SCALE SHOP DRAWINGS FOR DUCT SYSTEMS, DIMENSIONED TO INCORPORATE THE WORK OF OTHER TRADES. INDICATE SPACES RESERVED FOR FIRE SPRINKLER, PIPING & ELECTRICAL CONDUIT MAINS.
- UNLESS NOTED OTHERWISE, BRANCH DUCTS TO INDIVIDUAL TERMINALS, DIFFUSERS AND GRILLES SHALL BE SAME SIZE AS NECK INLET.
- PROVIDE EQUIPMENT SCHEDULED OR INDICATED ON THE DRAWINGS BUT NOT INCLUDED WITHIN THE SPECIFICATIONS. INSTALLATION SHALL CONFORM TO MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES. PROVIDE SUBMITTALS.
- ELECTRICAL CHARACTERISTICS OF MECHANICAL EQUIPMENT SHALL BE VERIFIED WITH ELECTRICAL DRAWINGS PRIOR TO EQUIPMENT ORDER RELEASE. ADDITIONAL ELECTRICAL WORK RESULTING FROM EQUIPMENT SUBSTITUTION IS THE RESPONSIBILITY OF THIS CONTRACTOR.
- LENGTH OF FLEXIBLE DUCTWORK SHALL BE LIMITED TO 5'-0" MAX. HORIZONTAL RUN WITH ONLY ONE 90 DEG. ELBOW PERMITTED. SECURE FLEXIBLE DUCTWORK WITH SCREWS & DRAW BANDS.
- DUCT SIZES INDICATED ARE NET INSIDE CLEAR DIMENSIONS.
- PROVIDE CEILING OPERATIONS FOR INACCESSIBLE M.V.D.'S WHERE INDICATED, EQUAL TO YOUNG REGULATOR, REMOTE FEAR OPERATED, WITH CEILING ESCUTCHEON.
- ITEM DESIGNATIONS INDICATED HEREON ARE FOR PURPOSES OF THESE DOCUMENTS ONLY. CONTRACTOR SHALL VERIFY W/ OWNERS REPRESENTATIVE ACTUAL "TAGGING" INFORMATION TO BE PROVIDED FOR EACH ITEM OF MECHANICAL EQUIP. PRIOR TO NAMEPLATE ORDER RELEASE.
- CEILING DIFFUSERS SHALL BE 36" MIN. FORM CEILING MOUNTED SMOKE DETECTORS. COORD. W/ ELECTRICAL DIVISION.
- SECURE DIFFUSERS & GRILLES TO T-BAR CEILINGS, WHERE APPLICABLE. SUBMIT SHOP DWG. FOR APPROVAL PRIOR TO BEGIN. WORK.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ACTUAL LOCATION OF GRILLES & DIFFUSERS IN CEILING, AS WELL AS ACCESS DOORS.
- COORDINATE EQUIP. DIMENSIONS AND LAYOUT W/ PLUMBING SECTION WHERE FLOOR SINKS ARE INDICATED.
- PIPES PASSING THRU FIRE RATED WALLS & FLOORS SHALL BE SEALED WITH U.L. LISTED MATERIAL EQUAL TO 3M FIRE BARRIER, CAULK OR PUTTY. SEALANT'S RATING SHALL MATCH THE RATING OF THE ASSEMBLY.
- PROVIDE VALVE TAGS AND PIPE IDENTIFICATION BANDS. TAGS SHALL BE BRASS W/ CHAIN. IDENTIFICATION BANDS SHALL BE LOCATED EVERY 25 FEET AND ON EITHER SIDE OF INTERMEDIATE BARRIER.
- PROVIDE 18" X 18" MIN. ACCESSIBLE CEILINGS AND WALLS FOR EQUIP. REQUIRING ACCESS OR ADJUSTMENT. COORDINATE LOCATIONS AND SUBMIT TO ARCHITECT FOR APPROVAL PRIOR TO BEGINNING WORK.
- TURNING VANE RUNNERS SHALL HAVE A VANE IN EVERY SLOT IN STRICT CONFORMANCE WITH MFR.'S INSTRUCTIONS AND SMACNA DUCT CONSTRUCTION STANDARDS.
- VERIFY FIT DUCTWORK AND PIPING PRIOR TO FABRICATION.
- INSULATED PIPING EXPOSED TO VIEW (THROUGHOUT THE FACILITY). SHALL BE COVERED FINISHED W/ PVC JACKET EQUAL TO MANVILLE PVC/ PERMA-WELD PIPE JACKETING SYSTEM USING 30 MIL THICK JACKET. FITTINGS, FLANGES VALVES & ACCESSORIES SHALL BE JACKETED. INSTALL PER MFRS. INSTRUCTIONS W/ SEAM ON TOP OF PIPE SO AS NOT TO BE VISIBLE FROM OCCUPIED SPACE.
- DUCTWORK LOCATED BEL. 7'-6" IN MECHANICAL ROOMS SHALL BE EQUIPPED W/ PADDING MATERIAL ON ALL CORNERS, EDGES & OTHER SURFACES WHICH MAY BE HAZARDOUS.
- COORDINATE & VERIFY ACTUAL APPROVED EQUIP. DIMENSIONS PRIOR TO POURING EQUIP. PADS
- DUCT MOUNTED SMOKE DETECTORS SHALL BE ZERO VELOCITY TYPE WHERE INDICATED ON DRAWINGS
- DRAIN PIPING FROM A/C EQUIPMENT SHALL BE ROUTE SO AS NOT TO CREATE A TRIPPING HAZARD. COORDINATE ACTUAL DRAIN CONNECTIONS WITH PLUMBING SECTIONS. COORDINATE FLOOR SINK LOCATIONS ACCORDINGLY.
- CONDENSATE DRAIN TRAPS SHALL BE 3" DEEP, MINIMUM.
- COORDINATE ALL CHASE, SLEEVE AND SLAB BLOCK OUT REQUIREMENTS BEFORE CONCRETE IS POURED OR BLOCK IS SET.
- PROVIDE ACCESS DOOR IN DUCTWORK UPSTREAM OF EACH REHEAT COIL. DUCTMATE METU ROUND DUCT ACCESS DOOR.
- DUCTWORK VISIBLE BEHIND DIFFUSERS, RESISTERS, OR GRILLES SHALL BE PAINTED FLAT BLACK.
- REFER TO EQUIPMENT DRAWINGS, SPECS, & SHOP DRAWINGS FOR CONNECTIONS TO EQUIPMENT.
- MANUAL VOLUME DAMPERS AND VALES ON INSULATED DUCTWORK AND PIPING SHALL HAVE EXTENDED STEMS TO ALLOW FOR THE INSULATION THICKNESS. PROVIDE MIN. 12" LONG RED RIBBON QUADRANT LOCATOR ON VOLUME DAMPER HANDLES.
- HVAC EQUIPMENT SHALL BE SEALED OFF, KEPT FREE FROM DEBRIS, AND SHALL REMAIN UNOPERATIONAL DURING CONSTRUCTION FOR ANY REASON. CONTRACTOR SHALL PROVIDE TEMPORARY HEAT AS REQUIRED.
- THE CONTRACTOR SHALL BRING ERRORS AND OMISSIONS WHICH MAY OCCUR IN THE CONTRACT DOCUMENTS TO THE ATTENTION OF THE ARCHITECT VERBALLY AND IN WRITING. WRITTEN INSTRUCTIONS SHALL BE OBTAINED BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY ERRORS, DISCREPANCIES OR OMISSIONS IN THE CONTRACT DOCUMENTS, OF WHICH THE CONTRACTOR FAILED TO NOTIFY THE ARCHITECT BEFORE CONSTRUCTION AND/OR FABRICATION OF THE WORK.

LINGLE DESIGN GROUP, INC.
LINGLEDESIGNGROUP, INC
158 WEST MAIN STREET
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5875
WWW.LINGLEDESIGN.COM

JCAA
4100 Wadsworth Blvd.
Wheat Ridge, CO 80033
p 303.985.3260
TX F-14436

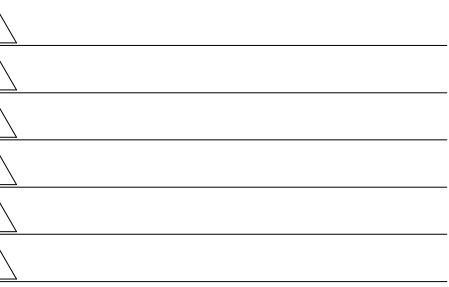
© ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE LINGLE DESIGN GROUP, INC. THEY MAY NOT BE REPRODUCED, COPIED, REPRODUCED, OR OTHERWISE USED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.



PROJECT #:

DRAWN BY: DAS CHECKED BY: JCAA

PERMIT SET - 08/12/2022



SHERWIN WILLIAMS

STORE #:

XXXX

ADDRESS:

LOT 3, BLOCK "A"
HIGHWAY 973
MANOR, TX 78653

SHEET TITLE:

Mechanical Cover Sheet

SHEET NUMBER:

M001

ROOFTOP UNIT SCHEDULE (NATURAL GAS HEATING - DX COOLING)

TAG	MANUFACTURER/ MODEL	LOCATION/ SERVICE	SUPPLY FAN					HEATING CAPACITY				COOLING CAPACITY				EFFICIENCY (IEER)	MCA	MOCP	VOLT/PH/Hz	WEIGHT* (LBS)	OVERALL DIMENSIONS	NOTES	
			TOTAL CFM	OUTDOOR AIR CFM	SUPPLY ESP (IN W.C.)	MAX FAN MOTOR RPM	MOTOR BHP	INPUT (MBH)	OUTPUT (MBH)	EAT	LAT	TOTAL MBH	SENSIBLE MBH	EAT (DB/WB)	LAT (DB/WB)								CONDENSER AMB. AIR TEMP (DEG. F)
RTU-1	TRANE/ YSC092	ROOF/ SALES AREA	3400	625	0.5	754	1.12	150/105	120/84	61.2	94.5	93.7	91.9	79.6/61.9	53.6/	105	12.7	46	60	208/3/60	1175	SEE MANUF.	1-8.
RTU-2	TRANE/ YSC092	ROOF/ WHOLESALE AREA	2400	430	0.5	802	0.83	120	96	61.4	99.2	66.4	62.7	79.5/61.9	53.4/	105	12.7	39	50	208/3/60	1100	SEE MANUF.	1-8.

OR EQUIVALENT BY OTHERS

NOTES:

1. FURNISH AND INSTALL ROOFTOP UNIT. PROVIDE WITH 100% OA ECONOMIZER, 2" MERV 8 FILTERS, MODULATING OA DAMPER, STANDARD EFFICIENCY UNIT, TWO STAGE HEATING, BAROMETRIC RELIEF, COIL HAIL GUARD, AND MANUF. RECOMMENDED ROOF CURB. VERIFY LOCATION IN FIELD WITH STRUCTURAL ENGINEER.
2. VERIFY ELECTRICAL VOLTAGE WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.
3. PROVIDE WITH 24/7 PROGRAMMABLE THERMOSTAT. THERMOSTAT TO BE HONEYWELL VISIONPRO 8000 WITH REDLINK OR APPROVED EQUAL. SEE FLOOR PLAN FOR MORE INFORMATION.
4. PROVIDE WITH RA MOUNTED SMOKE DETECTOR WITH UNIT CONTROLS AND WIRE TEST STATION INSTALLED PER LOCAL CODE.
5. PROVIDE WITH ETL OR UL LISTED NON-FUSED DISCONNECT SWITCH.
6. PROVIDE UN-POWERED CONVENIENCE OUTLET TO BE WIRED ON SEPERATE CIRCUIT BY ELECTRICAL CONTRACTOR.
7. FAN MOTORS ARE TO BE PROVIDED WITH NEMA PREMIUM EFFICIENCY MOTORS RATED.
8. MID HEAT INPUT.

*WEIGHT INCLUDES WEIGHT OF ADDED ACCESSORIES

FAN SCHEDULE

TAG	MANUFACTURER/ MODEL	LOCATION/ SERVICE	CFM	ESP (IN. WC)	AMPS	VOLT/Hz/ PHASE	WEIGHT (LBS)	OVERALL DIMENSIONS	METHOD OF CONTROL	NOTES
EF-1	GREENHECK/ SP-A125	CEILING/ RESTROOM	100	0.25	0.62	115/60/1	17	SEE MANUF.	LIGHT SWITCH	1-2

OR EQUIVALENT BY COOK, ACME, AND S&P

NOTES:

1. PROVIDE WITH BACKDRAFT DAMPER, ROOF PORTAL, TALL FLASHING CONE, STORM COLLAR, RAINCAP AND BIRDSCREEN.
2. INTERLOCK OPERATION WITH LIGHT SWITCH.

GRILLE, DIFFUSER, AND REGISTER SCHEDULE

TAG	USE	PATTERN	ACCESSORIES	FINISH	MAKE & MODEL	REMARKS
SD-1	SPIRAL DUCT DIFFUSER	AS SHOWN	AIR SCOOP	BY ARCH	PRICE SDG	NOMINAL SIZE VARIES, SEE DRAWINGS
SD-2	CEILING DIFFUSER	4-WAY	O.B.D.	BY ARCH	PRICE SCD	24"x24" FACE NECK SIZE VARIES, SEE DRAWINGS
RG-1	CEILING RETURN GRILLE	N/A	RA BOOT	BY ARCH	PRICE PDDR	12"x12" FACE NECK SIZE VARIES, SEE DRAWINGS

OR EQUIVALENT BY TITUS, KRUEGER, METAL-AIRE, OR NAILOR

NOTES:

1. UNLESS SPECIFICALLY INDICATED ON PLANS, GRILLE, REGISTER AND DIFFUSER RUN-OUT SIZES ARE AS FOLLOWS:

RUN-OUT	CFM
4'Ø	<40
6'Ø	41-100
8'Ø	101-210
10'Ø	211-375
12'Ø	376-600
14'Ø	601-910

RTU-1: OUTDOOR AIR VENTILATION SCHEDULE (IMC 2015) CONSTANT VOLUME SYSTEM

ROOM	OCCUPANCY DESCRIPTION	Rp	Az	OCCUPANT DENSITY (#/1000 SQ.FT)	Ra	Pz	Ez	CODE: TOTAL EXHAUST (CFM)	EXHAUST SPECIFIED ON DRAWINGS	Voz=(Rp*Pz+Ra*Az)/Ez
		CFM/PERSON	SQ FT	AREA CFM	# People	ZONE AIR DISTANCE EFFECTIVENESS	Minimum Outside Air Required			
SALES AREA 100 (SEE NOTE 1)	SALES	7.5	2037	15	0.12	31	0.8	0	0	596.2
RESTROOM ALCOVE 410 (SEE NOTE 1)	CORRIDOR	0	35	0	0.06	0	0.8	0	0	2.6
RESTROOM 400	TOILET ROOM - PUBLIC	0	73	0	0	0	0.8	70	100	0.0
HALLWAY 310 (SEE NOTE 1)	CORRIDOR	0	29	0	0.06	0	0.8	0	0	2.2
OFFICE 300	OFFICE	5	104	5	0.06	2	0.8	0	0	20.3
Total CFM Outside Air Required:										621.3
Total Outside Air Specified:										625.0
Percent Outside Air For Equipment: 18.38%										

NOTES:

1. THIS ROOM IS OPEN TO OTHER ROOMS WITH THIS NOTE. THESE ROOMS SHARE OA SUPPLY/REQUIREMENTS.

RTU-2: OUTDOOR AIR VENTILATION SCHEDULE (IMC 2015) CONSTANT VOLUME SYSTEM

ROOM	OCCUPANCY DESCRIPTION	Rp	Az	OCCUPANT DENSITY (#/1000 SQ.FT)	Ra	Pz	Ez	CODE: TOTAL EXHAUST (CFM)	EXHAUST SPECIFIED ON DRAWINGS	Voz=(Rp*Pz+Ra*Az)/Ez
		CFM/PERSON	SQ FT	AREA CFM	# People	ZONE AIR DISTANCE EFFECTIVENESS	Minimum Outside Air Required			
WHOLESALE SALE 200	SALES	7.5	1961	15	0.06	30	0.8	0	0	428.3
Total CFM Outside Air Required:										428.3
Total Outside Air Specified:										430.0
Percent Outside Air For Equipment: 17.92%										



© ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE LINGLE DESIGN GROUP, INC. THEY MAY NOT BE REPRODUCED, COPIED, REISED, OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.



PROJECT#

DRAWN BY: DAS CHECKED BY: JCAA

PERMIT SET - 08/12/2022

△

△

△

△

△

△

SHERWIN WILLIAMS

STORE #
XXXX

ADDRESS:
LOT 3, BLOCK "A"
HIGHWAY 973
MANOR, TX 78653

SHEET TITLE:
Mechanical
Equipment
Schedules &
Calculations

SHEET NUMBER:

M002

GENERAL SPECIFICATIONS (CONTINUED)

40. AGENCY QUALIFICATIONS:

TEST & BALANCE AGENCY (TBA) SHALL BE PERFORMED BY AN INDEPENDENT AGENCY ENGAGED SOLELY IN TEST AND BALANCE WORK. AGENCY SHALL BE MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR NATIONAL ENVIRONMENTAL BALANCING BUREAU, (NEBB).

SUBMIT A WRITTEN REPORT WITHIN 30 DAYS OF COMMENCING WORK, WITH ANY RECOMMENDED CHANGES TO INSURE BALANCING CAPABILITY.

SUBMIT A DETAILED TEST PLAN TO THE ARCHITECT ILLUSTRATING ALL FORMATS, DRAWINGS, AND TEST PROCEDURE TO BE USED FOR TESTING THE COMPLETED SYSTEM. THE APPROVED PLAN WILL BE USED FOR TESTING THE SYSTEMS. PROCEDURES SHALL INCLUDE REQUIREMENTS LISTED IN AABC / NEBB STANDARDS, LATEST EDITION AND ANY SPECIAL REQUIREMENTS FOR THIS PROJECT.

MAKE PROJECT VISITS AS REQUIRED DURING CONSTRUCTION PERIOD INSPECTING FOR PROPER INSTALLATION OF THE SYSTEM AND RELATED BALANCING DEVICES. PROJECT VISIT REPORTS SHALL BE MADE TO THE ARCHITECT IN WRITING.

41. CONTRACTORS REQUIREMENTS PRIOR TO TEST & BALANCE:

THE CONTRACTOR SHALL PERFORM ALL REQUIRED PRELIMINARY TESTS AND OTHER PREPARATORY WORK, INCLUDING BUT NOT LIMITED TO:

- MAKE SURE ALL FANS ARE OPERATING, CHECK ROTATION, RPM, AND AMPS.
- CHECK ALL DAMPERS FOR OPERATION.
- PUT ALL HVAC EQUIPMENT IN FULL OPERATION INCLUDING AIR UNITS, ACCU'S AND FANS.
- MAKE SURE ALL HVAC CONTROLS ARE INSTALLED AND FULLY OPERATIONAL.
- CLEAN/REPLACE FILTERS JUST PRIOR TO TESTING.
- PROVIDE ALL BALANCING DEVICES AND DRIVE CHANGES THAT ARE DEEMED NECESSARY BY T & B AGENCY FOR BALANCE AT NO ADDITIONAL COST TO THE OWNER.

42. TEST AND BALANCE:

TEST & BALANCE AGENCY SHALL BALANCE ALL AIR SYSTEMS FOR OPERATION WITHIN DESIGN CRITERIA. PRIME MOVERS SHALL BE WITHIN 5% OF DESIGN AND TERMINALS WITHIN 10% OF DESIGN.

AIR SYSTEMS SHALL BE BALANCED AS DESCRIBED HEREIN.

43. TEST REPORT:

THE TBA SHALL PROVIDE AN ELECTRONIC (PDF) COPY OF A FINAL COMPREHENSIVE TEST REPORT IN THE FOLLOWING FORMAT.

REPORT SHALL BE BOUND 8-1/2 X 11" WITH SUBSTANTIAL COVERS USING APPROVED FORMS, TYPED OR COMPUTER GENERATED REPORTS ARE ACCEPTABLE.

REPORT SHALL BE INDEXED.

TABLE OF CONTENTS SHALL LIST ALL REPORTS.

ALL AIR OUTLETS SHALL BE LOCATED ON CODED DRAWINGS PREPARED BY THE T&B AGENCY. AIR OUTLETS FORMS SHALL BE PREPARED AND CORRELATED TO THE CODED DRAWINGS.

TEST SUMMARY SHALL DESCRIBE FINAL TEST PROCEDURES AND SPECIAL CONDITIONS DURING TESTS (SUCH AS THERMOSTAT OUTSIDE/RETURN AIR RELATIONSHIP, AND DUCT STATIC PRESSURE.

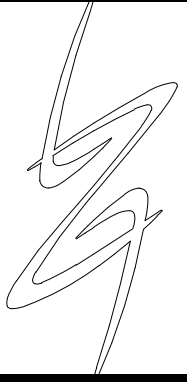
DESCRIBE OTHER DATA THAT MAY ASSIST OPERATING PERSONNEL IN THE CONTINUING OPERATION OF THE SYSTEM.

T&B CONTRACTOR SHALL TAKE AND RECORD ALL NECESSARY READINGS AT THE FINAL BALANCE POINTS, SUCH AS BUT NOT LIMITED TO: AIR QUANTITIES, PRESSURES, SETPOINTS, ENTERING AND LEAVING COIL TEMPERATURES, SPACE INDOOR AND OUTSIDE WET AND DRY BULB TEMPERATURES, OUTDOOR WEATHER CONDITIONS, ELECTRICAL READINGS OF ALL NEW AND EXISTING MOTORS, COMPRESSORS, ETC.

TEST REPORT SHALL CONTAIN TBA CERTIFICATION OF TEST DATA AND SYSTEM CONDITIONS.

SUBMIT THE TEST REPORTS, FOR REVIEW, BEFORE SUBSTANTIAL COMPLETION.

LINGLE DESIGN GROUP, INC



LINGLEDESIGNGROUP,INC
158 WEST MAIN STREET
LENA, IL 61048
815.369.9155

1764 BLAKE ST
DENVER, CO 80202
303.974.5875

WWW.LINGLEDESIGN.COM



JCAA
4100 Wadsworth Blvd.
Wheat Ridge, CO 80033
p 303.985.3260
TX F-14436

JCAA
#271

© ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE LINGLE DESIGN GROUP, INC. THEY MAY NOT BE REPRODUCED, COPIED, REPRODUCED, OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.



PROJECT #:

DRAWN BY: DAS CHECKED BY: JCAA

PERMIT SET - 08/12/2022

△
△
△
△
△
△

SHERWIN WILLIAMS

STORE #:
XXXX

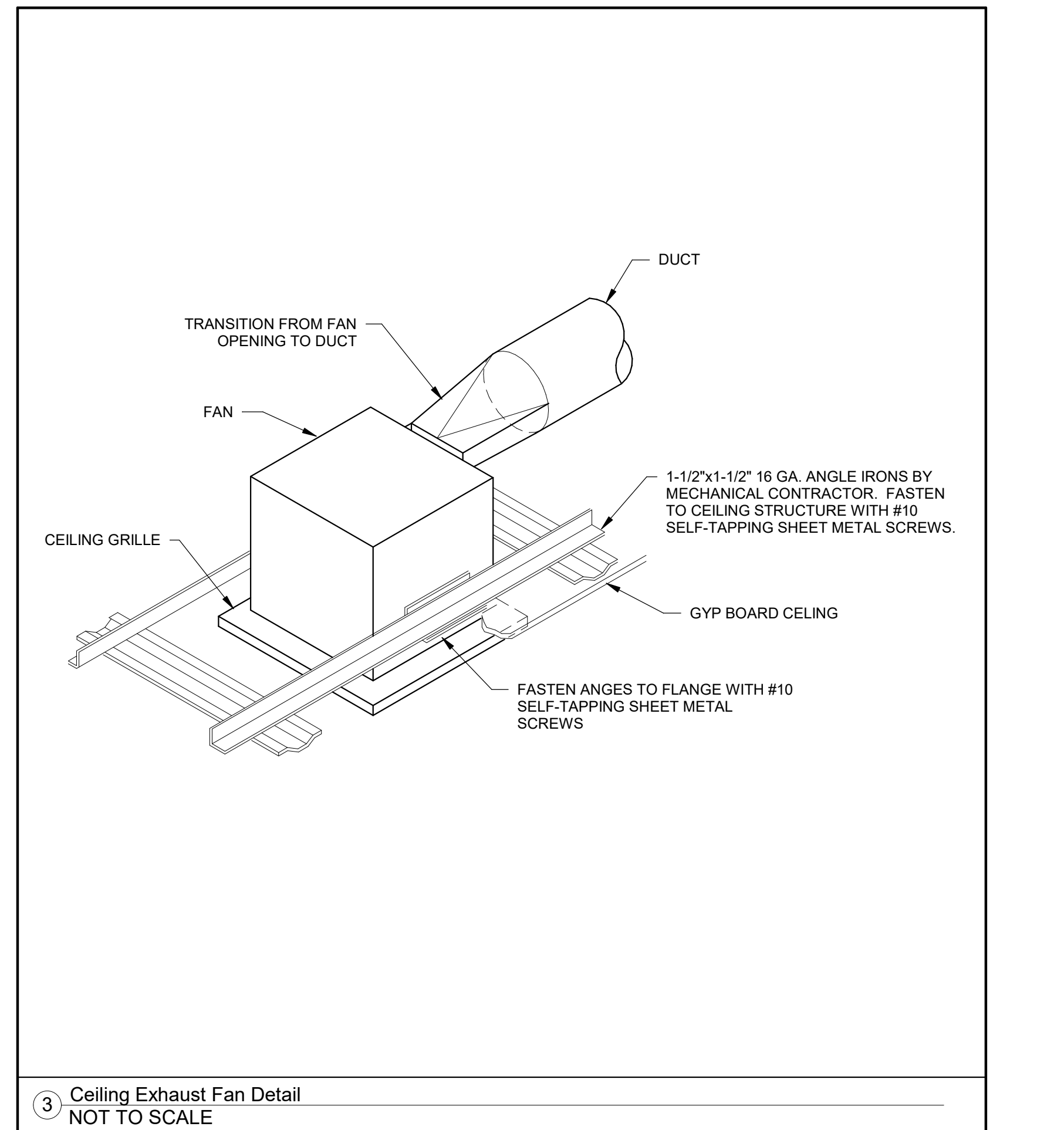
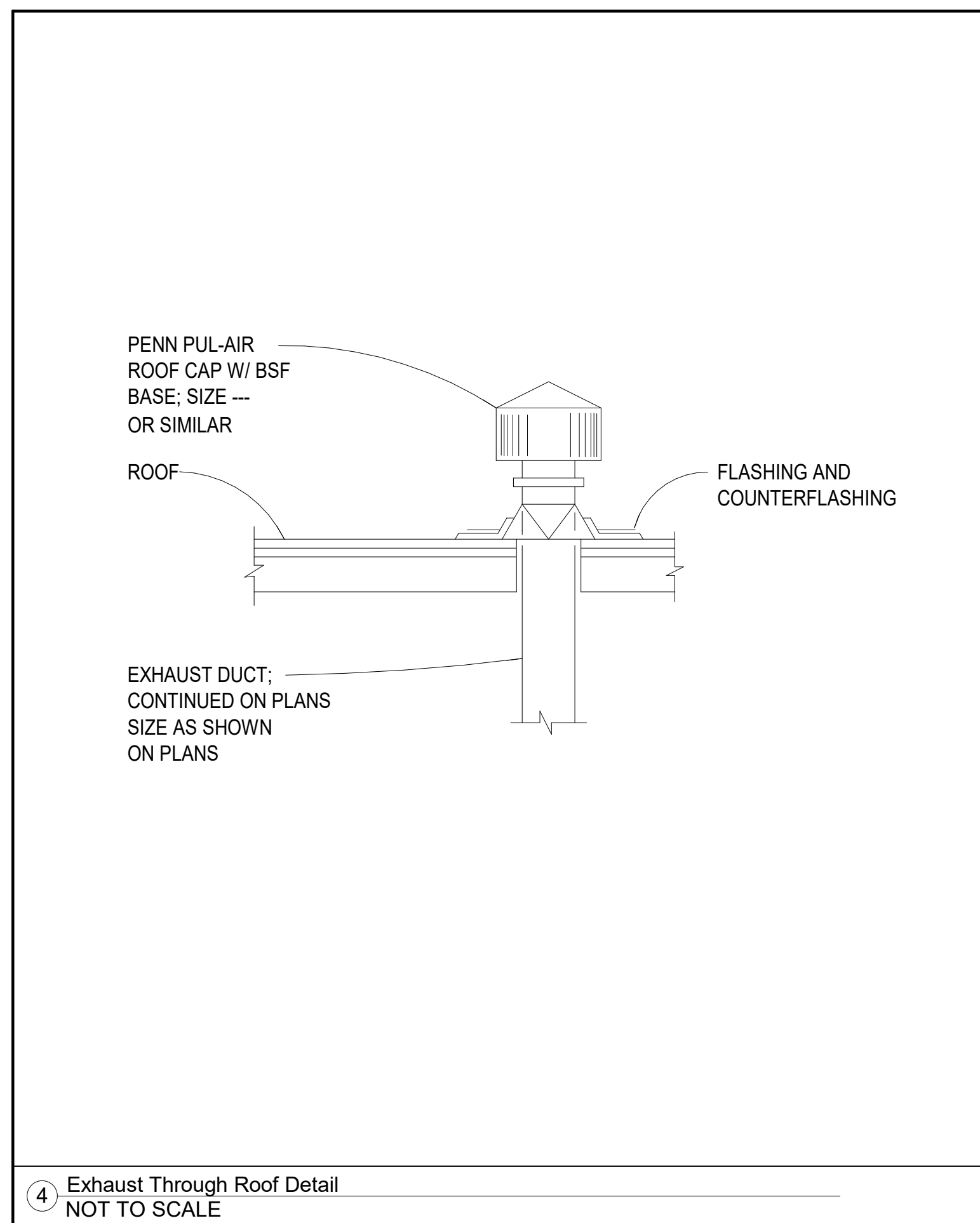
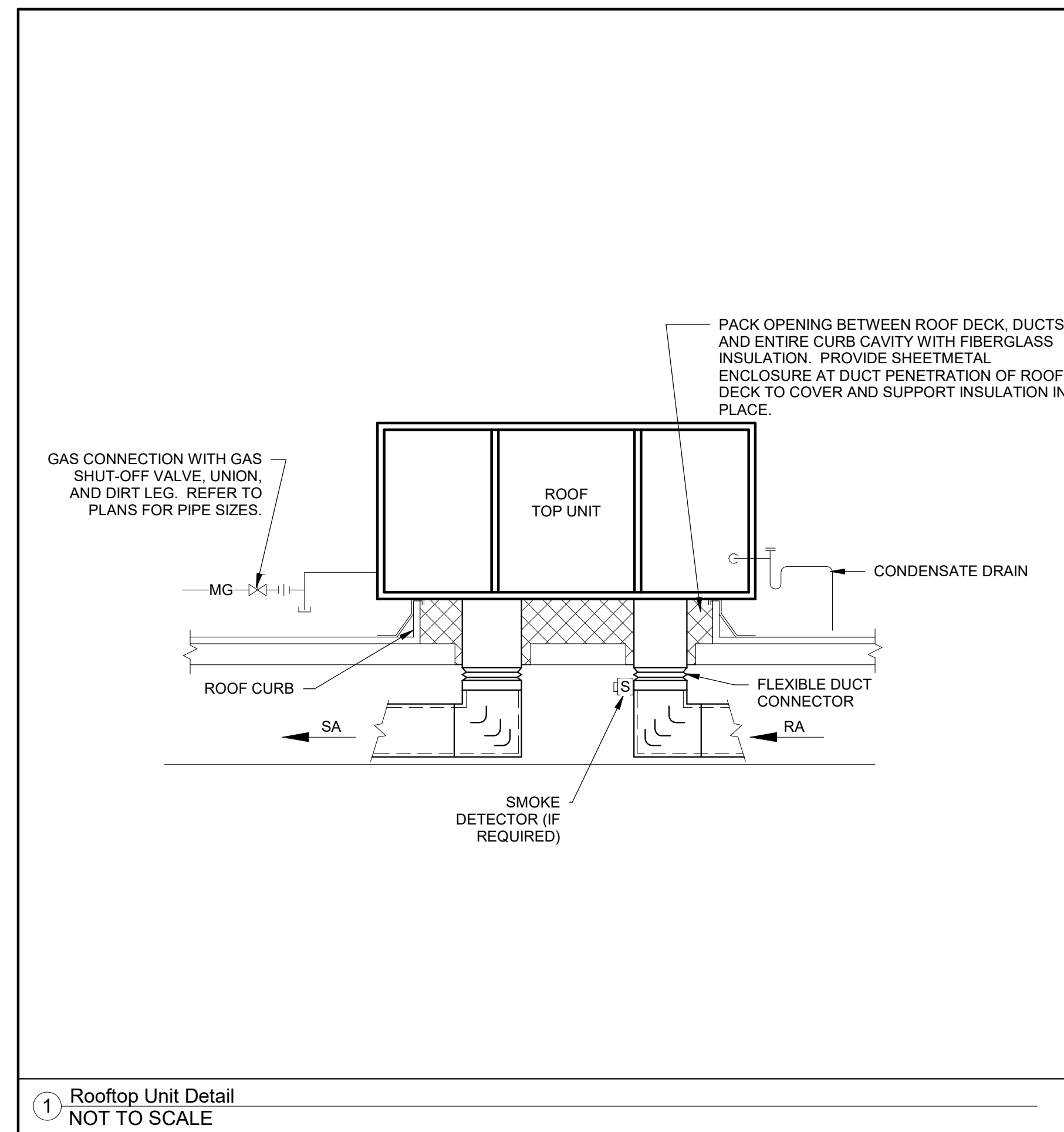
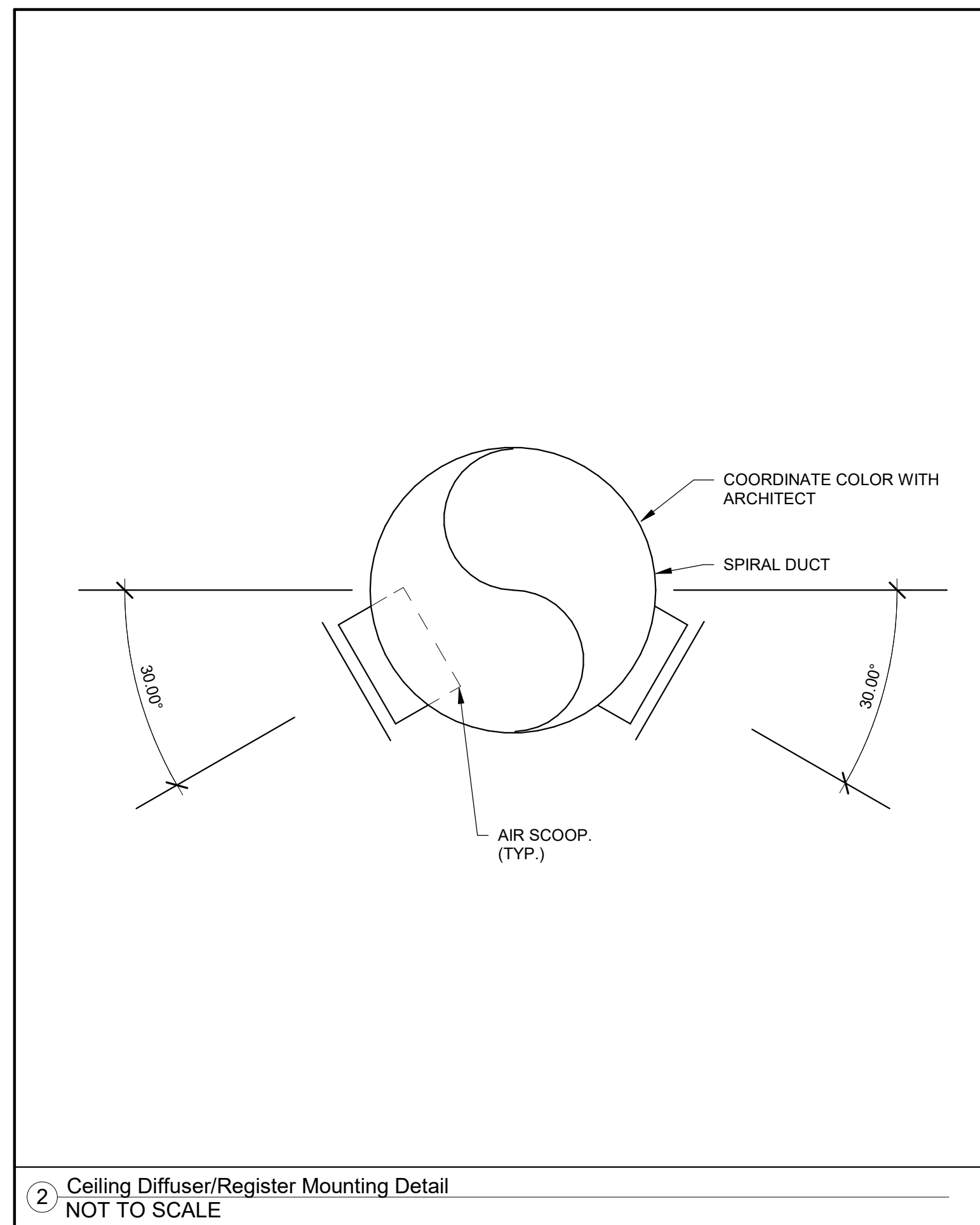
ADDRESS:
LOT 3, BLOCK "A"
HIGHWAY 973
MANOR, TX 78653

SHEET TITLE:

Mechanical
Specifications

SHEET NUMBER:

M004



COMcheck Software Version 4.1.5.4
Mechanical Compliance Certificate

Project Information
Energy Code: 2015 IECC
Project Title: Sw Manor
Location: Manor, Texas
Climate Zone: 2a
Project Type: New Construction

Construction Site: LOT 3, BLOCK "A" HIGHWAY 973 Manor, TX 78653
Owner/Agent: Designer/Contractor: JCAA Consulting Engineers 4100 Wadsworth Blvd. Wheatridge, CO 80033 303-985-3260

Additional Efficiency Packages)
Credits: 1.0 Required 0.0 Proposed
Mechanical Systems List
Quantity System Type & Description
1 Rtu 1 (Single Zone)
Heating 1 each - Central Furnace, Gas, Capacity = 150 Mbtuh
Proposed Efficiency = 80.00% E1, Required Efficiency: 80.00% E1 or 78% AFUE
Cooling 1 each - Single Package DX Unit, Capacity = 68 Mbtuh, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 12.76 EER, Required Efficiency: 11.00 EER + 12.6 EER
Fan System: FAN SYSTEM 1 - Compliance (Motor nameplate HP method) - Passes
Fans:
FAN 1 Supply, Constant Volume, 3400 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade

1 Rtu 2 (Single Zone)
Heating 1 each - Central Furnace, Gas, Capacity = 120 Mbtuh
Proposed Efficiency = 80.00% E1, Required Efficiency: 80.00% E1 or 78% AFUE
Cooling 1 each - Single Package DX Unit, Capacity = 68 Mbtuh, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 12.76 EER, Required Efficiency: 11.00 EER + 12.6 EER
Fan System: FAN SYSTEM 2 - Compliance (Motor nameplate HP method) - Passes
Fans:
FAN 2 Supply, Constant Volume, 2400 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade

Mechanical Compliance Statement
Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.4 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.
Dylan Shapiro-E.I.T. 08/08/2022
Name - Title Date

Project Title: Sw Manor Report date: 08/08/22
Data File Name: P:\JCAA 2022\22 102 - Sherwin Williams Manor, Texas\DRAWINGS\CADD\MECHANICAL\CALCS\comcheck_22.102.cck Page 1 of 9

Section # & Req. ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.2.9 (ME11)	Ductwork operating >3 in. water column requires air leakage testing	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C403.3 (ME21)	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C403.3 (ME21)	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C403.4.4 (ME110)	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply. See the Mechanical Systems list for values.
C403.4.4 (ME110)	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply. See the Mechanical Systems list for values.
C408.2.3 (ME31)	Air outside and zone terminal devices have means for air balancing.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C403.5.1 (ME31)	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in the condensing unit, have fan-powered condensers that comply with sections C403.5.1 and refrigeration compressor systems that comply with C403.5.2.	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:
1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Sw Manor Report date: 08/08/22
Data File Name: P:\JCAA 2022\22 102 - Sherwin Williams Manor, Texas\DRAWINGS\CADD\MECHANICAL\CALCS\comcheck_22.102.cck Page 6 of 9

COMcheck Software Version 4.1.5.4
Inspection Checklist

Requirements: 100.0% were addressed directly in the COMcheck software
Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req. ID	Plan Review	Complies?	Comments/Assumptions
C103.2 (PR2)	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbook.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C406 (PR9)	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	Complies Does Not Not Observable Not Applicable	Requirement will be met.

Additional Comments/Assumptions:
1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Sw Manor Report date: 08/08/22
Data File Name: P:\JCAA 2022\22 102 - Sherwin Williams Manor, Texas\DRAWINGS\CADD\MECHANICAL\CALCS\comcheck_22.102.cck Page 2 of 9

Section # & Req. ID	Final Inspection	Complies?	Comments/Assumptions
C203.3 (PR8)	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C403.2.2 (PR27)	HVAC systems and equipment capacity does not exceed calculated loads.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C403.2.4 (PR47)	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C403.2.4 (PR47)	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C403.2.4 (PR47)	Thermostatic controls have a 5 "F deadband.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C408.2.5 (PR43)	An air and/or hydronic system balancing report is provided for HVAC systems.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C408.2.5 (PR43)	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C403.2.4 (PR41)	Each zone equipped with setback controls using automatic time clock or programmable control system.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C403.2.4 (PR41)	Systems include optimum start controls.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C403.2.4 (PR41)	Systems include optimum start controls.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C408.2.1 (PR28)	Commissioning plan developed by registered design professional or approved agency.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C408.2.3 (PR31)	HVAC equipment has been tested to ensure proper operation.	Complies Does Not Not Observable Not Applicable	Requirement will be met.

Additional Comments/Assumptions:
1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Sw Manor Report date: 08/08/22
Data File Name: P:\JCAA 2022\22 102 - Sherwin Williams Manor, Texas\DRAWINGS\CADD\MECHANICAL\CALCS\comcheck_22.102.cck Page 7 of 9

Section # & Req. ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.2.4 (FO5)	Snow/ice melting system sensors for future connection to controls. Flood protection systems have automatic controls installed.	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:
1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Sw Manor Report date: 08/08/22
Data File Name: P:\JCAA 2022\22 102 - Sherwin Williams Manor, Texas\DRAWINGS\CADD\MECHANICAL\CALCS\comcheck_22.102.cck Page 3 of 9

Section # & Req. ID	Final Inspection	Complies?	Comments/Assumptions
C403.2.1 (PR10)	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C408.2.3 (PR31)	Economizers have been tested to ensure proper operation.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C408.2.4 (PR31)	Primary commissioning report completed and certified by registered design professional or approved agency.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C408.2.5 (PR43)	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C408.2.5 (PR43)	An air and/or hydronic system balancing report is provided for HVAC systems.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C408.2.5 (PR43)	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	Complies Does Not Not Observable Not Applicable	Requirement will be met.

Additional Comments/Assumptions:
1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Sw Manor Report date: 08/08/22
Data File Name: P:\JCAA 2022\22 102 - Sherwin Williams Manor, Texas\DRAWINGS\CADD\MECHANICAL\CALCS\comcheck_22.102.cck Page 8 of 9

Section # & Req. ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5.1 (PL47)	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C404.5.1 (PL47)	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C404.6.3 (PL71)	Pumps that circulate water between heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C404.6.3 (PL71)	Pumps that circulate water between heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C404.7 (PL87)	Water distribution system that pumps water from a heated water supply pipe back to the heated water source through a cold-water supply pipe is a demand recirculation water system. Pumps within this system have controls that start the pump upon receiving a signal from the action of a user or a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C404.7 (PL87)	Water distribution system that pumps water from a heated water supply pipe back to the heated water source through a cold-water supply pipe is a demand recirculation water system. Pumps within this system have controls that start the pump upon receiving a signal from the action of a user or a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	Complies Does Not Not Observable Not Applicable	Requirement will be met.

Additional Comments/Assumptions:
1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req. ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 (ME41)	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C403.1.3 (ME71)	Unheated spaces that are heated use only radiant heat.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C403.2.3 (ME51)	HVAC equipment efficiency verified.	Complies Does Not Not Observable Not Applicable	See the Mechanical Systems list for values.
C403.2.4 (ME113)	Fault detection and diagnostics installed with air-cooled unitary DX units having economizers.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C403.2.4 (ME113)	Fault detection and diagnostics installed with air-cooled unitary DX units having economizers.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C403.2.4 (ME113)	Fault detection and diagnostics installed with air-cooled unitary DX units having economizers.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C403.2.6 (ME15)	Demand control ventilation provided for spaces >500 ft ² and >25 people/1000 ft ² occupied density and served by systems with air flow economizer, auto modulating outside air damper control, or design airflow >3.000 cfm.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C403.2.6 (ME15)	Enclosed parking garage ventilation has automatic contaminant detection and capacity to purge or moderate fans to 50% of rated capacity.	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.
C403.2.7 (ME16)	Exhaust air energy recovery on systems meeting Table C403.2.7(1) and C403.2.7(2).	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C403.2.7 (ME16)	Kitchen exhaust systems comply with replacement air and conditioned supply air installation, and satisfy hood rating requirements and maximum exhaust duct criteria.	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.
C403.2.9 (ME67)	HVAC ducts and plenums insulated. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C403.2.9 (ME10)	Ducts and plenums sealed based on location.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C403.2.9 (ME11)	Ductwork operating >3 in. water column requires air leakage testing.	Complies Does Not Not Observable Not Applicable	Requirement will be met.

Additional Comments/Assumptions:
1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Sw Manor Report date: 08/08/22
Data File Name: P:\JCAA 2022\22 102 - Sherwin Williams Manor, Texas\DRAWINGS\CADD\MECHANICAL\CALCS\comcheck_22.102.cck Page 5 of 9

LINGLE DESIGN GROUP, INC
LINGLEDESIGNGROUP, INC
158 WEST MAIN STREET
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5875
WWW.LINGLEDESIGN.COM

JCAA CONSULTING PROFESSIONALS
1400 WADSWORTH BLVD.
WHEAT RIDGE, CO 80033
P 303.985.3260
TX F-1436

ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE LINGLE DESIGN GROUP, INC. THEY MAY NOT BE REPRODUCED, COPIED, REPRODUCED, OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.

STATE OF TEXAS
PATRICK LEONARD
130345
LICENSE 10/04/22
PROFESSIONAL ENGINEER

PROJECT #
DRAWN BY: DAS CHECKED BY: JCAA

PERMIT SET - 08/12/2022

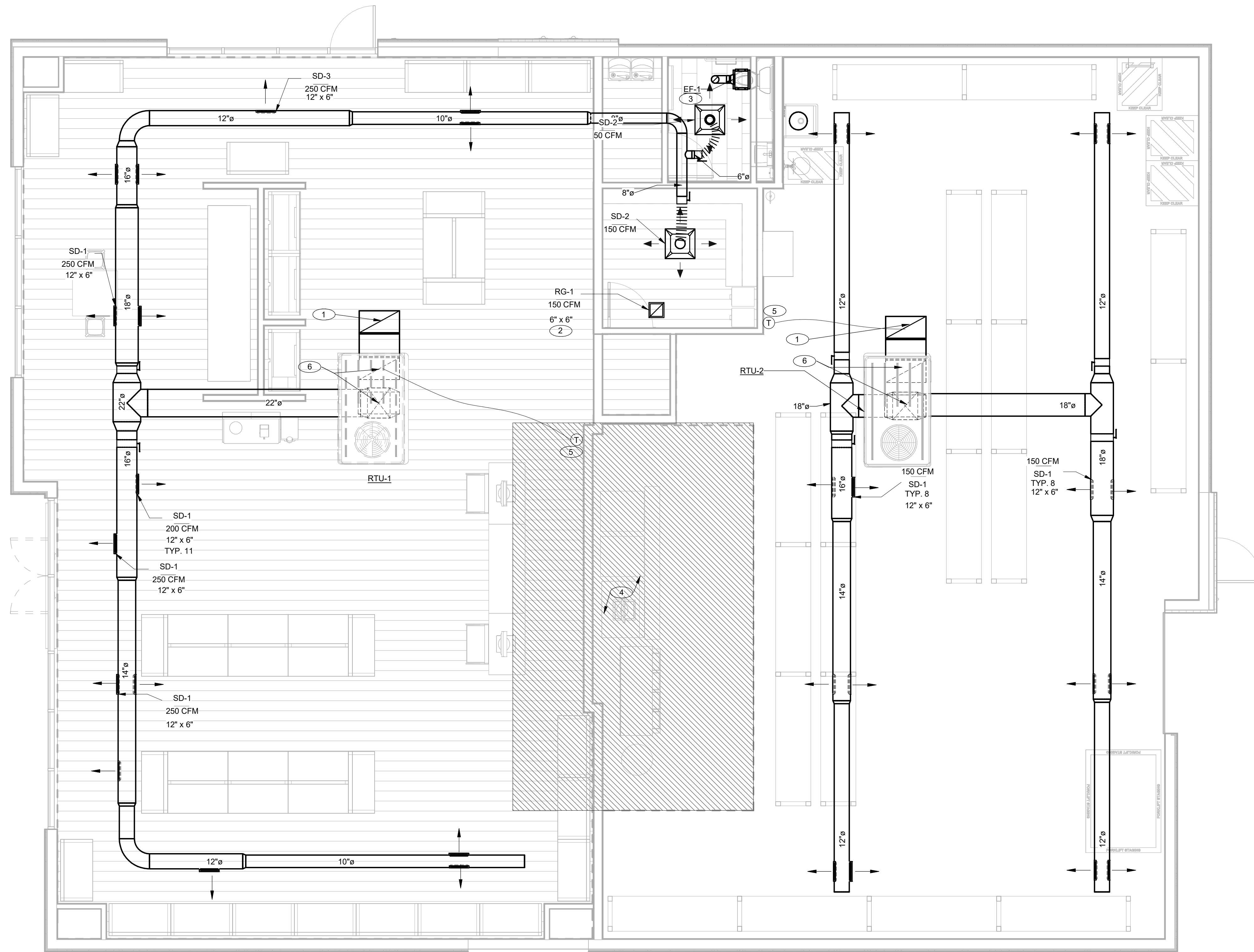
SHERWIN WILLIAMS

STORE #
XXXX
ADDRESS:
LOT 3, BLOCK "A"
HIGHWAY 973
MANOR, TX 78653
SHEET TITLE:

Mechanical
Comcheck

SHEET NUMBER:

M006



- SHEET NOTES:**
1. INSTALL TWO 90° ELBOWS TO TURN DUCT UP TOWARDS STRUCTURE. TERMINATE RA DUCT WITH 1/2" WIRE MESH APPROX. 18" BELOW STRUCTURE.
 2. INSTALL RETURN GRILLE IN OFFICE CEILING AS SHOWN. LEAVE OPEN TO SPACE ABOVE CEILING.
 3. INSTALL EF-1 IN BATHROOM CEILING AS SHOWN. ROUTE 6" DUCT FROM FAN UP THROUGH ROOF ABOVE. TERMINATE WITH RAINCAP AND BIRDSCREEN. VERIFY LOCATION IN FIELD.
 4. DO NOT INSTALL ANY DUCTWORK, PLENUMS, ETC. IN THIS AREA.
 5. FURNISH AND INSTALL 24/7 PROGRAMABLE THERMOSTAT WITH AUTO CHANGEOVER AND RELATED WIRING TO CONTROL ROOFTOP UNIT. MOUNT AT 42" AFF IN LOCATION SHOWN. THERMOSTAT TO BE HONEYWELL VISIONPRO 8000 WITH REDLINK OR APPROVED EQUAL. VERIFY FINAL MOUNTING LOCATION WITH OWNER/ARCH. VERIFY PROPER OPERATION IN FIELD. REFER TO DATABOARD DETAIL 2, E300. PROVIDE 100' T-STAT WIRE.
 6. 33"x18" SA AND 32"x18" RA DOWN FROM RTU ON ROOF. RE: ROOF PLAN.

- GENERAL NOTES:**
1. MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS. TAKE ALL DIMENSIONS FROM ARCHITECTURAL DRAWINGS, CERTIFIED EQUIPMENT DRAWINGS AND FROM THE STRUCTURE ITSELF BEFORE FABRICATING ANY WORK. VERIFY ALL SPACE REQUIREMENTS COORDINATING WITH OTHER TRADES, AND INSTALL THE SYSTEMS IN THE SPACE PROVIDED WITHOUT EXTRA CHARGES TO THE OWNER.
 2. CONTRACTOR SHALL COORDINATE WORK INDICATED WITH PLUMBING, ELECTRICAL, FIRE PROTECTION, STRUCTURAL, AND ARCHITECTURAL DIVISIONS. SUBMIT 1/4" SCALE SHOP DRAWINGS FOR MECHANICAL SYSTEMS, DIMENSIONED TO INCORPORATE THE WORK OF OTHER TRADES. INDICATE SPACES RESERVED FOR PLUMBING PIPING, MECHANICAL PIPING, MECHANICAL DUCTWORK, & ELECTRICAL CONDUIT MAINS. VERIFY FIT OF MECHANICAL SYSTEMS PRIOR TO FABRICATION. COORDINATE ALL CHASE, SLEEVE, AND SLAB BLOCKOUT REQUIREMENTS BEFORE CONCRETE IS POURED OR BLOCK IS SET.
 3. BOTTOM OF ALL DUCTWORK SHALL NOT BE LOWER THAN 12'-0" AFF.
 4. FURNISH AND INSTALL GALVANIZED STEEL DUCTWORK, SIZES AS NOTED ON DRAWINGS. SIZES SHOWN ARE CLEAR, INSIDE DIMENSIONS. SEE ARCHITECTURAL DRAWINGS FOR EXTERNAL FINISH. SUSPEND WITH AIRCRAFT CABLE.

1 Mechanical Floor Plan
1/4" = 1'-0"

LINGLE DESIGN GROUP, INC
LINGLEDESIGNGROUP,INC
158 WEST MAIN STREET
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5875
WWW.LINGLEDESIGN.COM

JCAA
CONSULTING
PROFESSIONAL
4100 Wadsworth Blvd.
Wheat Ridge, CO 80033
p 303.985.3260
TX F-14436
#02, 102

ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE LINGLE DESIGN GROUP, INC. THEY MAY NOT BE REPRODUCED, COPIED, REISED, OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.



PROJECT #
DRAWN BY: DAS CHECKED BY: JCAA

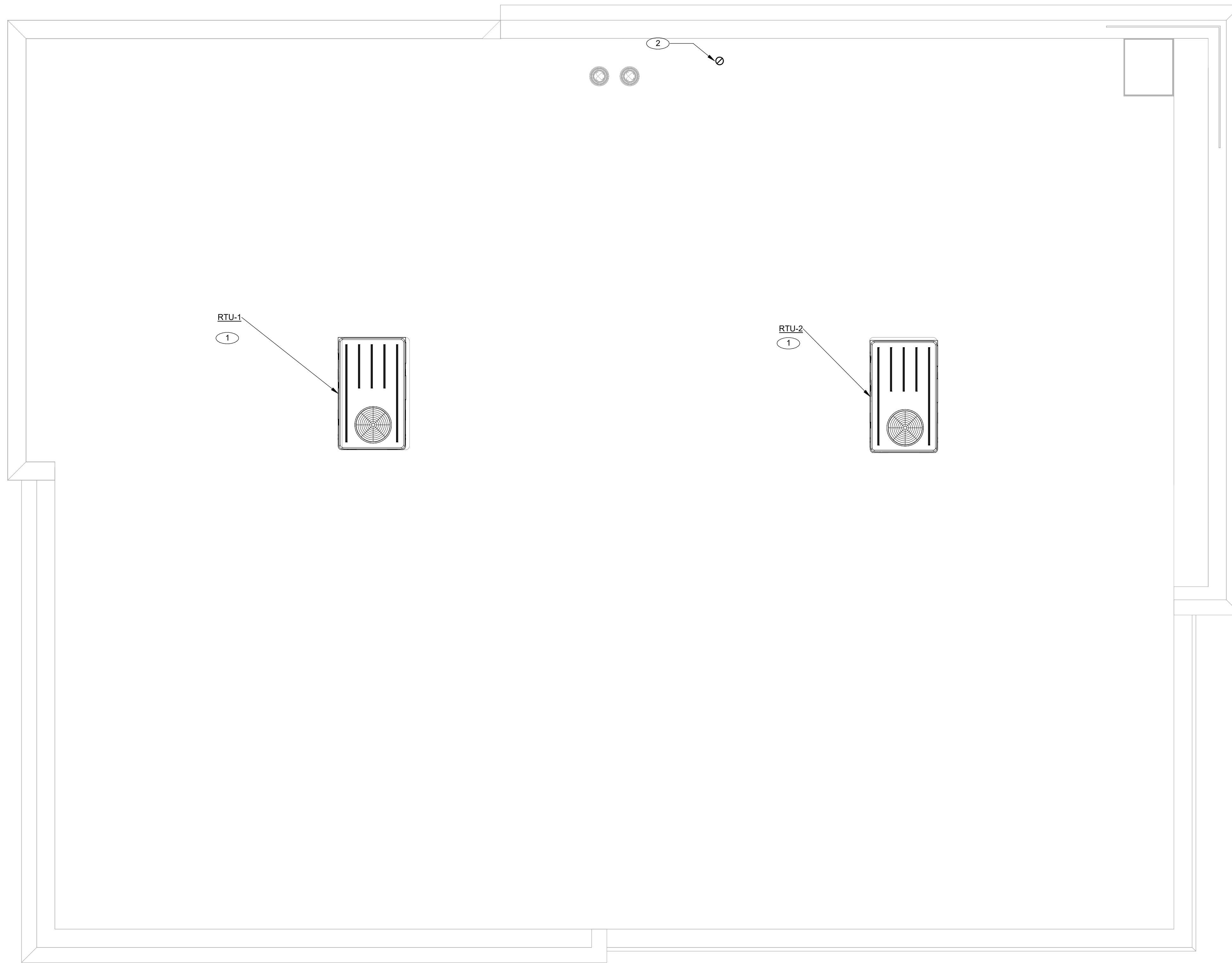
PERMIT SET - 08/12/2022

SHERWIN WILLIAMS

STORE #
XXXX
ADDRESS:
LOT 3, BLOCK "A"
HIGHWAY 973
MANOR, TX 78653

SHEET TITLE:
Mechanical Floor Plan

SHEET NUMBER:
M100



SHEET NOTES:

1. INSTALL RTU IN LOCATION SHOWN PER MANUF. SPECIFICATIONS. RTU LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS ARE TO BE VERIFIED WITH STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

2. EXHAUST FAN DUCT UP THROUGH ROOF TO APPROVED VENT CAP & BIRDSCREEN.

GENERAL NOTES:

1. MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS. TAKE ALL DIMENSIONS FROM ARCHITECTURAL DRAWINGS, CERTIFIED EQUIPMENT DRAWINGS AND FROM THE STRUCTURE ITSELF BEFORE FABRICATING ANY WORK. VERIFY ALL SPACE REQUIREMENTS COORDINATING WITH OTHER TRADES, AND INSTALL THE SYSTEMS IN THE SPACE PROVIDED WITHOUT EXTRA CHARGES TO THE OWNER.

2. CONTRACTOR SHALL COORDINATE WORK INDICATED WITH PLUMBING, ELECTRICAL, FIRE PROTECTION, STRUCTURAL, AND ARCHITECTURAL DIVISIONS. SUBMIT 1/4" SCALE SHOP DRAWINGS FOR MECHANICAL SYSTEMS, DIMENSIONED TO INCORPORATE THE WORK OF OTHER TRADES. INDICATE SPACES RESERVED FOR PLUMBING PIPING, MECHANICAL PIPING, MECHANICAL DUCTWORK, & ELECTRICAL CONDUIT MAINS. VERIFY FIT OF MECHANICAL SYSTEMS PRIOR TO FABRICATION. COORDINATE ALL CHASE, SLEEVE, AND SLAB BLOCKOUT REQUIREMENTS BEFORE CONCRETE IS POURED OR BLOCK IS SET.

① Mechanical Roof Plan
1/4" = 1'-0"

LINGLE DESIGN GROUP, INC.
LINGLEDESIGNGROUP, INC
158 WEST MAIN STREET
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5875
WWW.LINGLEDESIGN.COM

JCAA
CONSULTING
PROFESSIONAL ENGINEER
4100 Wadsworth Blvd.
Wheat Ridge, CO 80033
p 303.985.3260
TX F-14436

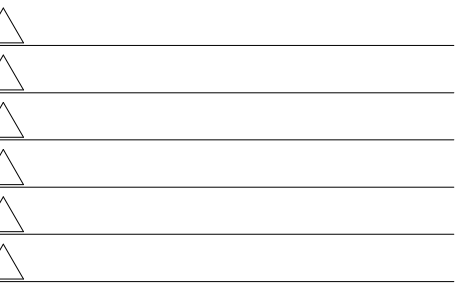
© ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE LINGLE DESIGN GROUP, INC. THEY MAY NOT BE REPRODUCED, COPIED, REPRODUCED, OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.



PROJECT #

DRAWN BY: DAS CHECKED BY: JCAA

PERMIT SET - 08/12/2022



SHERWIN WILLIAMS

STORE #
XXXX

ADDRESS:
LOT 3, BLOCK "A"
HIGHWAY 973
MANOR, TX 78653

SHEET TITLE:

Mechanical Roof
Plan

SHEET NUMBER:


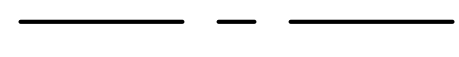
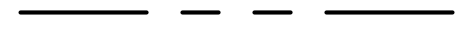
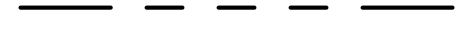


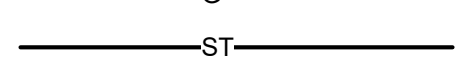






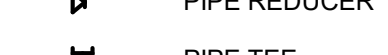
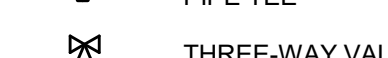
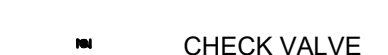



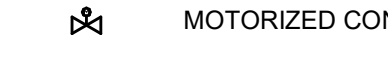
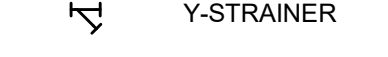



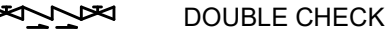


M200

PLUMBING GENERAL NOTES

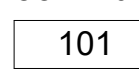
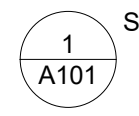
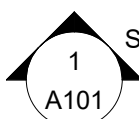


THE NOTES BELOW ARE PART OF THE CONTRACT DOCUMENTS AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO READ AND UNDERSTAND THEM.

- DO NOT SCALE DRAWINGS.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT PLUMBING FIXTURE LOCATIONS AND MOUNTING HEIGHTS. OBTAIN EXACT F.D. AND F.S. LOCATIONS FROM MECHANICAL AND FOOD SERVICE DRAWINGS. ROUGH-IN KITCHENS, BARS, ETC. FROM APPROVED FOOD SERVICE SHOP DRAWINGS.
- V.T.R.'S SHALL BE MIN. (25'-0")(10'-0") FROM O.A. INTAKES. COORDINATE WITH A.C. SECTION.
- VERIFY LOCATION OF HANDICAPPED FIXTURES WITH ARCHITECTURAL DRAWINGS.
- PROVIDE CHROME PLATED ESCUTCHEONS AT PIPE SLEEVES FOR EXPOSED BARE PIPE.
- PROVIDE A.D.'S IN GYP. BOARD CEILINGS AND INACCESSIBLE WALLS FOR VALVES AND C.O.'S.
- PLUMBING FIXTURES SHALL BE SUBMITTED TO ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO ORDER RELEASE. CONTRACTOR SHALL VERIFY PLUMBING FIXTURES W/ ARCHITECT PRIOR TO BID.
- AT HANDICAP LAVATORIES & SINKS, COVER OFFSET WASTE, P-TRAP, HOT & COLD WATER ANGLE STOPS & SUPPLIES WITH WHITE SKAL GARD MODEL SG-102, 103 & 104. (EQUAL BY PROWRAP).
- ARRANGE W.H.'S TO PROVIDE EASE OF DISASSEMBLY & MAINTENANCE.
- PIPES PASSING THRU FIRE RATED WALLS & FLOORS SHALL BE SEALED WITH U.L. LISTED MATERIAL EQUAL TO 3M FIRE BARRIER, CAULK OR PUTTY. SEALANT'S RATING SHALL MATCH THE RATING OF THE ASSEMBLY.
- EQUIPMENT START-UP SHALL BE BY MFR'S. AUTHORIZED REPRESENTATIVES.
- SHOWER HEAD ESCUTCHEONS SHALL BE RIGIDLY ATTACHED TO THE WALL USING "POLYSEAM SEAL" CAULKING MATERIAL.
- FLOOR SINKS SHALL BE LOCATED SO AS NOT TO CREATE TRIPPING HAZARD WHEN ROUTING DRAIN LINES @ FLOOR LEVEL. VERIFY EXACT DRAIN LINE ROUTING PRIOR TO FLOOR SINK ROUGH-IN.
- PLUMBING RISER ISOLATION & DRAIN VALVES, AS WELL AS HWR THROTTLING VALVES SHALL BE LOCATED WITHIN EASY REACH OF CEILING, WHERE CEILING OCCUR BELOW & DROPPED TO WITHIN A MAX. 10'-0" OF FIN. FLOOR WHERE NO CEILING OCCURS.
- PIPING SHALL BE SEISMICALLY BRACED IN ACCORDANCE W/ SMACNA GUIDELINES FOR SEISMIC RESTRAINT.
- WHERE HANDICAPPED WATER CLOSET INDICATED (VERIFY W/ ARCH. DWGS.), LOCATE FLUSH VALVE ON WIDE SIDE OF STALL PER A.D.A. STANDARDS.
- INSULATED PIPING EXPOSED TO VIEW THROUGHOUT THE FACILITY SHALL BE COVERED AND FINISHED W/ PVC JACKET EQUAL TO MANVILLE PVC / PERMAPIPE JACKETING SYSTEM USING 30 MIL THICK JACKET. INSTALL PER MFR.'S INSTRUCTIONS W/ SEAM ON TOP OF PIPE SO AS TO NOT BE VISIBLE FROM OCCUPIED SPACE.
- PROVIDE WALL CLEANOUTS AT SINKS AND URINALS IN ACCORDANCE W/ APPLICABLE SECTIONS OF THE APPLICABLE PLUMBING CODE.
- TRAP PRIMER EQUAL TO PRECISION PRODUCTS CO. "PRIME-RITE" SHALL BE INSTALLED AT FLOOR SINKS & FLOOR DRAINS IN MECHANICAL ROOMS, AND TOILET ROOMS. PIPE PER MFR.'S. INSTALLATION INSTRUCTIONS.
- PROVIDE 1/2" S.O.V. AHEAD OF EACH TRAP PRIMER.
- PROVIDE S.M. DRAIN PAN UNDER SOIL & WASTE PIPING WHERE PIPING OCCURS ABOVE KITCHENS. PIPE 3/4" D. FROM DRAIN PAN TO OVER NEAREST F.S.
- PROVIDE A 6 MIL. POLYETHYLENE SLEEVE SYSTEM EQUAL TO IPS WATER-TITE FOR COPPER DOMESTIC WATER PIPE BELOW SLAB.
- HOT & COLD WATER S.O.V.'S & HOT WATER RETURN T.V.'S SHALL BE LOCATED TO BE EASILY ACCESSED.
- REFER TO FOOD SERVICE DRAWINGS & SCHEDULES FOR KITCHEN & BAR LAYOUTS. PLUMBING REQUIREMENTS AND DETAILS. PROVIDE PIPING, VALVES, FIXTURES, INDIRECT WASTE, P.R.V.'S ETC. (NOT PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR) AS REQUIRED TO MAKE A COMPLETE AND OPERABLE SYSTEM (INCLUDING HOOD DRAIN PIPING, VENTILATOR CONTROL PANEL PIPING, REFRIGERANT PIPING, BEER AND SYRUP LINE RACEWAYS, DRAIN PIPING FROM REFRIGERATION FAN COILS, ETC.). EXPOSED PIPING ABOVE COUNTER HEIGHT SHALL BE CHROME PLATED. PROVIDE R.P. TYPE BACKFLOW PREVENTER AT CARBONATORS. VACUUM BREAKER AND P.R.V.'S FOR HOOD HOT & COLD WATER IS FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR & INSTALLED BY DIVISION 15 (PLUMBING). COORDINATE W/ KITCHEN EQUIPMENT CONTRACTOR ACCORDINGLY.
- REFER TO KITCHEN PLANS FOR HOT AND COLD WATER HOSE BIBB LOCATIONS UNDER HAND SINKS IN KITCHEN AREAS.
- MINIMUM DISTANCE FOR CONNECTIONS AT THE BASE OF SOVENT STACKS ARE 50" FOR 5" STACK, 40" FOR 4" STACK AND 30" FOR 3" STACK. THIS DISTANCE SHALL APPLY TO EACH CONNECTION INCLUDING FIXTURE BRANCHES.
- THE CAST IRON SOVENT SYSTEM SHALL BE MANUFACTURED AND DISTRIBUTED BY CONINE MANUFACTURING CO., INC. OF TYLER, TEXAS. THE INSTALLATION SHALL BE IN ACCORDANCE WITH APPROVED DRAWINGS AND SPECIFICATIONS, AND IN COMPLIANCE WITH CAST IRON SOVENT DESIGN MANUAL NO. 802. SOVENT AERATOR AND DEAEARATOR FITTINGS SHALL BE IN COMPLIANCE WITH STANDARD ASME/ANSI B16.45-1987, SPONSORED AND PUBLISHED BY THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
- PIPE GAS REGULATOR VENTS UP THRU ROOF.
- GREASE TRAP INSTALLATION SHALL CONFORM WITH CCSD REQUIREMENTS. MANHOLE SHALL NOT EXCEED 10'-0" ON CENTER. PROVIDE QUANTITY AS REDD TO COMPLY W/ MAX. SPACINGS.
- PROVIDE SELF-REGULATING HOT WATER TEMPERATURE MAINTENANCE SYSTEM FOR EACH TEMPERED WATER SYSTEM, FROM TEMPERING STATION, TO THE POINT OF USE. SYSTEM SHALL BE EQUAL TO RAYCHEM HWAT-B FOR 105°F DESIGN TEMP., STRAIGHT LAGED AND INSTALLED UNDER INSULATION. PROVIDE POWER CONN. KIT, TEE CONN. KITS AS REQ'D, END SEAL KIT AND SPLICE KIT AND SPLICE KITS AS REQ'D. INSTALLATION AND TESTING SHALL COMPLY IN ALL RESPECTS W/ MFR.'S INSTALLATION AND TESTING PROCEDURES. SUBMIT TEST REPORT TO ARCHITECT FOR REVIEW. SYSTEM SHALL BE FOR 208V/1Ø SERVICE. PROVIDE RAYCHEM HWAT-R FOR 140°F DESIGN TEMP. W/ INSULATION, ETC., AS DESCRIBED ABOVE FOR GREASE WASTE PIPING WHERE INDICATED ON PLANS.
- MOTORS 1 H.P. & LARGER SHALL BE PREMIUM EFFICIENCY.
- CONTRACTOR SHALL VERIFY SIZE & LOCATION OF UNDERGROUND UTILITIES. COORDINATE WITH OTHER TRADES AND MAKE FINAL CONNECTION.
- PROVIDE WATER HAMMER ARRESTORS EQUAL TO WATT'S REGULATOR NO. 15 SERIES. PROVIDE ON HOT & COLD WATER PIPING SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION RECOMMENDATIONS. DEVICES SHALL BE PDI CERTIFIED AND ANSI APPROVED.
- WHERE SOLIDS INTERCEPTORS ARE REQUIRED ON FIRST FLOOR, SET INTERCEPTORS FLUSH WITH FINISHED FLOOR - COORDINATE INTERCEPTOR ACCESS WITH SINK AND CABINET.
- PLUMBER SHALL MAKE FINAL CONNECTIONS TO ALL PLUMBING FIXTURES, INCLUDING LAB FAUCETS AND TURRETS. (NOTE: FAUCETS, GAS AND AIR FITTINGS IN WOOD CASEWORK ARE NOT IN DIVISION 15).
- TRAP PRIMERS SHALL BE INSTALLED FOR FLOOR SINKS IN MECHANICAL ROOMS & FLOOR DRAINS IN TOILET ROOMS. EQUAL TO PPP "PRIME RITE" WITH DISTRIBUTION UNIT FOR MULTIPLE F.D.'S. TRAP PRIMER SHALL BE ACCESSIBLE AND INSTALLED PER MANUFACTURER'S REQUIREMENTS. (PROVIDE S.O.V. AT EACH TRAP PRIMER WITH 6"x6" ACCESS DOOR).
- WATER PIPING SHALL BE ROUTED "AROUND" ELECTRICAL ROOMS.
- COORDINATE SEQUENCE OF DEMOLITION W/ GENERAL CONTRACTOR TO PREVENT WATER DAMAGE TO EXISTING AREAS TO REMAIN.
- CONTRACTOR TO NOTIFY ENGINEER OF ANY INCORRECT ASSUMPTIONS PRIOR TO STARTING ANY WORK.
- THE CONTRACTOR SHALL BRING ERRORS AND OMISSIONS WHICH MAY OCCUR IN THE CONTRACT DOCUMENTS TO THE ATTENTION OF THE ARCHITECT VERBALLY AND IN WRITING. WRITTEN INSTRUCTIONS SHALL BE OBTAINED BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY ERRORS, DISCREPANCIES OR OMISSIONS IN THE CONTRACT DOCUMENTS, OF WHICH THE CONTRACTOR FAILED TO NOTIFY THE ARCHITECT BEFORE CONSTRUCTION AND/OR FABRICATION OF THE WORK.
- SUBMITTED EQUIPMENT WILL BE REVIEWED FOR CONFORMITY OF SCHEDULED INFORMATION INCLUDING, BUT NOT LIMITED TO: QUALITY, PERFORMANCE, PHYSICAL CHARACTERISTICS, OPTIONS, AND OTHER FEATURES AS NOTED. IF THE CONTRACTOR SUBMITS MANUFACTURERS OR MODELS OTHER THAN THE SCHEDULED ITEMS, THE EQUIPMENT WILL BE SUBJECT TO REVIEW AND ACCEPTANCE/REJECTION AT THE ENGINEER'S DISCRETION. OWNER WILL HAVE FINAL AUTHORIZATION OF EQUIPMENT APPROVAL.
- MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS. TAKE ALL DIMENSIONS FROM ARCHITECTURAL DRAWINGS, CERTIFIED EQUIPMENT DRAWINGS AND FROM THE STRUCTURE ITSELF BEFORE FABRICATING ANY WORK, VERIFY ALL SPACE REQUIREMENTS COORDINATING WITH OTHER TRADES, AND INSTALL THE SYSTEMS IN THE SPACE PROVIDED WITHOUT EXTRA CHARGES TO THE OWNER.
- CONTRACTOR SHALL COORDINATE WORK INDICATED WITH PLUMBING, ELECTRICAL, FIRE PROTECTION, STRUCTURAL, AND ARCHITECTURAL DIVISIONS. SUBMIT 1/4" SCALE SHOP DRAWINGS FOR MECHANICAL SYSTEMS, DIMENSIONED TO INCORPORATE THE WORK OF OTHER TRADES. INDICATE SPACES RESERVED FOR PLUMBING PIPING, MECHANICAL PIPING, MECHANICAL DUCTWORK, & ELECTRICAL CONDUIT MAINS. VERIFY FIT OF MECHANICAL SYSTEMS PRIOR TO FABRICATION. COORDINATE ALL CHASE, SLEEVE, AND SLAB BLOCKOUT REQUIREMENTS BEFORE CONCRETE IS POURED OR BLOCK IS SET.

PLUMBING SYMBOLS

	L-1	PLUMBING FIXTURE TAG
		DOMESTIC COLD WATER
		DOMESTIC HOT WATER
		DOMESTIC HOT WATER CIRCULATION
		WASTE/SANITARY SEWER
		VENT
		NATURAL GAS
		STORM
		OVERFLOW STORM
		PIPE UP
		PIPE DOWN
		PIPE TEE DOWN
		PIPE CAP
		PIPE ELBOW
		PIPE REDUCER
		PIPE TEE
		THREE-WAY VALVE
		CHECK VALVE
		BUTTERFLY VALVE
		BALL VALVE
		BALANCING VALVE
		MOTORIZED CONTROL VALVE
		Y-STRAINER
		PRESURE GAGE
		THERMOMETER
		PRESSURE REDUCING VALVE
		DOUBLE CHECK BACKFLOW PREVENTER

GENERAL SYMBOLS

Room name		ROOM NAME ROOM NUMBER	ROOM TAG
		VIEW NUMBER SHEET NAME	ENLARGED VIEW TAG
		VIEW NUMBER SHEET NUMBER	SECTION VIEW TAG
	1 / A101	VIEW NUMBER/SHEET NUMBER	VIEW REFERENCE
		SHEET NOTE	
		POINT OF CONNECTION TO EXISTING	
ABBREVIATION DESCRIPTION			
AD		ACCESS DOOR	
AF		AIR FOIL	
AFF		ABOVE FINISHED FLOOR	
APD		AIR PRESSURE DROP	
BAS		BUILDING AUTOMATION SYSTEM	
CHWS		CHILLED WATER SUPPLY	
CHWR		CHILLED WATER RETURN	
CV		CONSTANT VOLUME	
CWS		CONDENSER WATER SUPPLY	
CWR		CONDENSER WATER RETURN	
(D)		DEMO'D	
DDC		DIRECT DIGITAL CONTROL	
DIFF		DIFFUSER	
(E)		EXISTING	
EA		EXHAUST AIR	
EMS		ENERGY MANAGEMENT SYSTEM	
ESP		EXTERNAL STATIC PRESSURE	
FC		FORWARD CURVED	
FD		FLOOR DRAIN	
FS		FLOOR SINK	
GR		GRILLE	
GCO		GRADE CLEAN OUT	
HWR		HEATING WATER RETURN	
HWS		HEATING WATER SUPPLY	
MA		MIXED AIR	
(N)		NEW	
NG		NATURAL GAS	
OB		ON-BOARD DAMPER	
OSA		OUTSIDE AIR	
OST		OVERFLOW STORM	
(R)		RELOCATED	
RA		RETURN AIR	
SA		SUPPLY AIR	
SP		STATIC PRESSURE	
SD		STORM DRAIN	
T-STAT		THERMOSTAT	
TDH		TOTAL DYNAMIC HEAD	
TSP		TOTAL STATIC PRESSURE	
TP		TRAP PRIMER	
VAV		VARIABLE AIR VOLUME	
VFD		VARIABLE FREQUENCY DRIVE	
WC		WATER COLUMN	
WP		WORKING PRESSURE	
WPD		WATER PRESSURE DROP	

SHEET LIST

Sheet Number	Sheet Name	Current Revision	Current Revision Date	Current Revision Description
P001	Plumbing Cover Sheet			
P002	Plumbing Schedules & Calculations			
P003	Plumbing Specifications			
P004	Plumbing Details and Isometric			
P100	Plumbing Waste and Vent Plan			
P101	Plumbing Water and Gas Plan			

DESIGN CRITERIA

JURISDICTION:	CITY OF MANOR, TEXAS
PLUMBING CODE:	2015 IPC WITH AMENDMENTS
FUEL GAS CODE:	2015 IFGC WITH AMENDMENTS
DOMESTIC WATER TAP:	PER 2015 IPC NEW BUILDING HAS A TOTAL OF 12.5 FIXTURE UNITS PRIMARILY FLUSH TANK SYSTEMS. 12.5 FIXTURE UNITS = 16.25 GPM DEVELOPED LENGTH 100 FT (X1.2 FITTING FACTOR) = 120 FT EQUIVALENT LENGTH JCAA ASSUMES THAT THE WATER PRESSURE AVAILABLE AT THE NEW CONSTRUCTION SITE IS 58 PSI. EXISTING 1-1/2" TAP WITH A 1-1/2" SERVICE LINE AND 1" WATER METER. 1-1/4" DISTRIBUTION WILL BE REQUIRED. FURTHER COORDINATION NEEDS TO OCCUR WITH THE WATER SUPPLIER. PROVIDE NEW REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER.
NATURAL GAS:	PROVIDE 7" W.C. GAS PRESSURE TO SITE PROVIDED BY ATMOS - COORDINATE GAS LINE AND METER INSTALLATION. GAS LOAD: 270MBH. *IN THE PROCESS OF DETERMINING AVAILALE PRESSURE AND LOAD FROM ATMOS*
SANITARY DRAINAGE:	PER 2015 IPC A 4" WASTE LINE SLOPED AT 1/8" PER FOOT WILL BE REQUIRED.

LINGLE DESIGN GROUP, INC.
LINGLEDESIGNGROUP, INC
158 WEST MAIN STREET
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5875
WWW.LINGLEDESIGN.COM

JCAA
4100 Wadsworth Blvd.
Wheat Ridge, CO 80033
p.303.985.3280
TX F-14436
#421.102

ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE LINGLE DESIGN GROUP, INC. THEY MAY NOT BE REPRODUCED, COPIED, REPRODUCED, OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.

STATE OF TEXAS
PATRICK LEONARD
130345
LICENSE # 0104/22
PROFESSIONAL

PROJECT #

DRAWN BY: NP CHECKED BY: JCAA

PERMIT SET - 08/12/2022

△
△
△
△
△

SHERWIN WILLIAMS

STORE #

XXXX

ADDRESS: LOT 3, BLOCK
A, MANOR COMMONS SE
COMMERCIAL
MANOR, TEXAS, 78863

SHEET TITLE:

Plumbing Cover
Sheet

SHEET NUMBER:

P001

JCAA CONSULTING ENGINEERS

Job Title Sherwin Williams Manor, TX
 Job No. 22_102
 By NP
 Checked JCAA

IFGC PIPE SIZING CALCULATOR FOR PRESSURES LESS THAN 1.5 PSI	
Meter Discharge Pressure ("W.C.)= 7 Allowable Pressure Drop ("W.C.)= 0.5 Total Equivalent Length of Pipe (feet)= 75	
Nominal Sched. 40 Steel Pipe size (inches)	Capacity (cfh)
0.5	58
0.75	121
1	228
1.25	488
1.5	701
2	1350
2.5	2152
3	3805
4	7760
5	14039
6	22732

*Pipe capacity is calculated using formula for low pressure gas (1.5 psi and less) located in IFGC Appendix A
 $Q = 2313 \cdot D^2 \cdot 6.23 \cdot ((\Delta H) / (C \cdot L))^{.541}$
 Q = Capacity (cfh)
 D = Inside Pipe Diameter
 ΔH = Allowable Pressure Drop ("W.C.)
 Cr = Factor For Viscosity, Density, and Temp. = 0.6094
 L = Length of Pipe (feet)

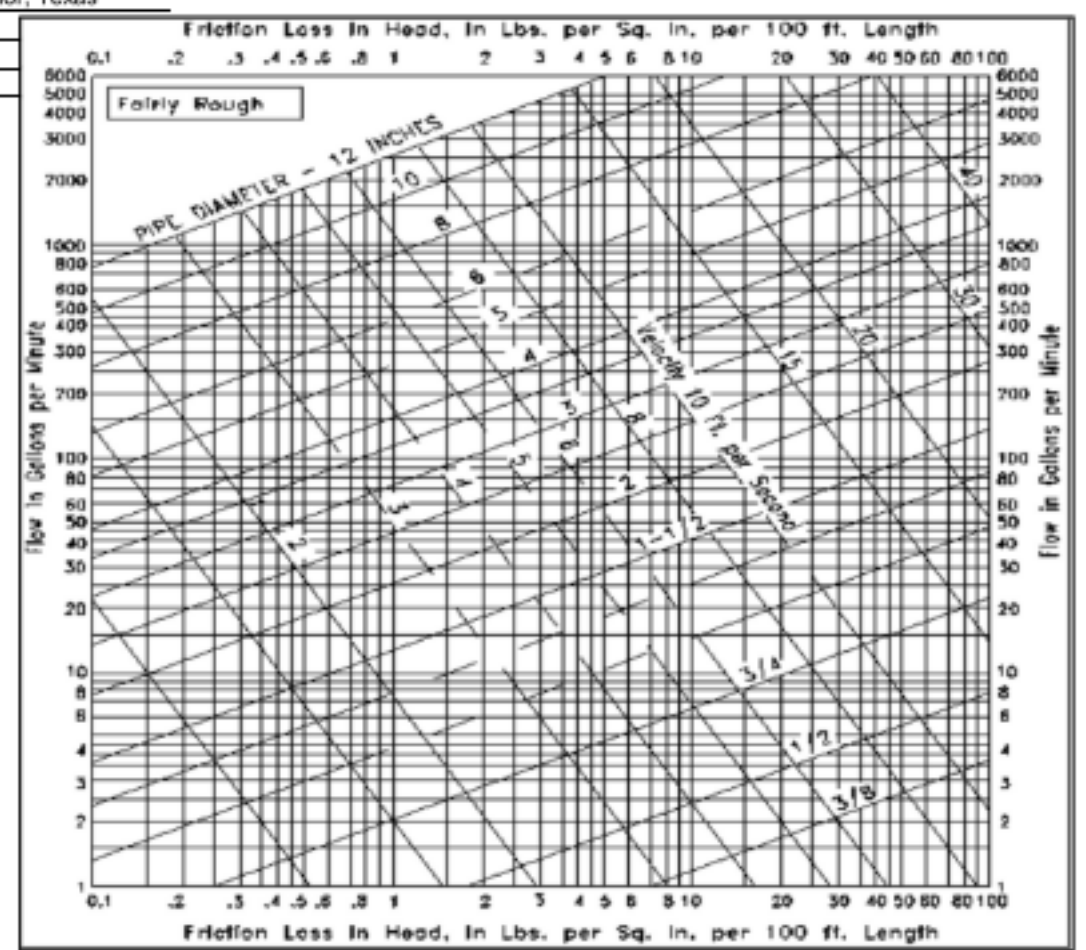
Fixture	Qty.	CW FU	CW FU 100%	HW FU 100%	Total FU for Domestic Water Tap/Meter Sizing	Waste or Sewer FU	Total Waste or Sewer FU
WC Tank 1.6 GPF	1	5	0	0	5	4	4
WC Flush Valve 1.6 GPF	10	0	0	0	0	4	4
WC Flushometer 1.6 GPF	2	0	0	0	0	4	4
Urinal 3/4" Flush Valve < 1.0 GPF	5	0	0	0	0	2	2
Urinal 1" Flush Valve < 1.0 GPF	10	0	0	0	0	2	2
Urinal Flush Tank > 1.0 GPF	3	0	0	0	0	4	4
Lavatory (public)	1	2	1.5	1.5	2	1	1
Lavatory (private)	0	0	0	0	0	1	1
Bar Sink	2	0	0	0	0	1	1
Kitchen Sink (hotel, restaurant)	4	0	0	0	0	2	2
Kitchen Sink (apartment)	1.4	0	0	0	0	2	2
Sink General 1 1/2" trap	4	0	0	0	0	2	2
Laundry Tub	3	0	0	0	0	2	2
Sink Washup each set of faucets	3	0	0	0	0	2	2
Bedpan Washer Flush Valve w/ank	10	0	0	0	0	4	4
Service/Mop Sink	1	3	2.25	2.25	3	2	2
Shower (public)	4	0	0	0	0	2	2
Shower (private)	1.4	0	0	0	0	2	2
Bathub (public)	4	0	0	0	0	2	2
Bathub (private)	1.4	0	0	0	0	2	2
EW or DF	1	0.25	0.25	0	0.25	6.8	6.8
Hose Bibb	2.5	0	0	0	0	0	0
Hose Bibb (additional)	1	0	0	0	0	0	0
Clotheswasher (commercial)	4	0	0	0	0	3	3
Clotheswasher (residential)	1.4	0	0	0	0	3	3
Hand Sink	2	0	0	0	0	1	1
Hand Sink indirect	2	0	0	0	0	0	0
3-Compartment Sink	4	0	0	0	0	1	1
Prep Sink	3	0	0	0	0	0	0
Dishwasher (hotel, restaurant)	8	0	0	0	0	0	0
Dishwasher (private)	1.4	0	0	0	0	0	0
Glasswasher (hotel, restaurant)	6	0	0	0	0	0	0
Coffee Brewer	1	0.25	0.25	0	0.25	0	0
Tea Brewer	0.25	0	0	0	0	0	0
Carbonator	0.25	0	0	0	0	0	0
Ice Machine	0.25	0	0	0	0	0	0
Eye Wash Station	1	2	1.5	1.5	2	0	0
Bathroom Group, ≤ 1.6 GPF (hotel, apartment)	3.6	0	0	0	0	6	6
Bathroom Group, > 1.6 GPF (hotel, apartment)	8	0	0	0	0	6	6
2" Floor Sink	0	0	0	0	0	2	2
3" Floor Sink	0	0	0	0	0	6	6
4" Floor Sink	0	0	0	0	0	8	8
2" Hub Drain	1	0	0	0	0	2	2
2" Floor Drain	1	0	0	0	0	2	2
Floor Drain-Emergency	0	0	0	0	0	0	0
Totals		10.75	5.25	12.5		11.5	

TAG	DESCRIPTION	ROUGH-IN CONNECTION (IN)					NOTES
		HW	CW	V	TRAP	S/W	
L-1	LAVATORY: AMERICAN STANDARD "COMRADE" 0124.024.020 WHITE, WALL HUNG OR EQUAL. FAUCET: BRADLEY CORP S53-315 "AERADA 1200 SERIES CS FAUCET", PLUG IN ADAPTER, CAPACITIVE SENSING ACTIVATION NO SUBSTITUTIONS.	1/2"	1/2"	2"	2"	2"	PROVIDE THERMOSTATIC MIXING VALVE SET TO 110°F (ADJ.) SEE ARCHITECTURAL SHEETS FOR MORE INFORMATION.
US-1	UTILITY SINK: ELKAY B1C24X24X STAINLESS STEEL, FAUCET: CHICAGO FAUCET 897 WITH WALL BRACE, PAIL HOOK, AND MALE HOSE THREADED OUTLET.	3/4"	3/4"	2"	3"	3"	ELEVATED ON METAL LEGS. PROVIDE WITH ALL ACCESSORIES FOR A COMPLETE SYSTEM. INSTALL PER MANUFACTURER GUIDELINES.
WC-1	WATER CLOSET: TOTO, ELONGATED BOWL, TWO PIECE, FLUSH VALVE PROVIDED BY BRADLEY, WHITE, TRIP LEVER INSTALLED ON WIDE SIDE OF STALL, ASSEMBLY CODE D2010300	-	1/2"	2"	-	4"	SEE ARCHITECTURAL SHEETS FOR MORE INFORMATION.
EW-1	EYE WASH: BRADLEY S19224DC WALL MOUNTED WITH EMERGENCY MIXING VALVE BRADLEY S19-20000EFX OR EQUAL	1/2"	1/2"	-	-	-	INSTALL PER MANUFACTURER GUIDELINES. ROUTE DRAIN TO NEARBY HUB DRAIN.
DF-1	DRINKING FOUNTAIN: ELKAY WALL MOUNT SOFT-SIDES BI-LEVEL WITH WALL PLATE, NON-REFRIGERATED, NON-FILTERED, STAINLESS, INSTALLED BARRIER FREE, ADAAG COMPLIANT OR EQUAL.	-	1/2"	2"	2"	2"	
HD-1	HUB DRAIN: JR SMITH 9654 GENERAL PURPOSE STAINLESS STEEL HUB DRAIN OR EQUAL.	-	-	2"	2"	2"	SEE DETAIL.
FD-1	FLOOR DRAIN: ZURN #Z-550-P OR EQUAL. CAST IRON FLOOR DRAIN WITH DOUBLE DRAINAGE FLANGE AND WEEPHOLES WHERE WATERPROOF MEMBRANES OCCUR, MEDIUM DUTY CAST IRON STRAINER, AND 1/2" TRAP PRIMER CONNECTION. PROVIDE P-TRAP OF MATERIAL SPECIFIED FOR DRAINAGE PIPING AND SIZE INDICATED ON DRAWINGS. TRAP PRIMER: WATTS LFTP300 OR EQUAL.	-	-	-	2"	2"	SET DRAIN FLUSH AND LEVEL WITH FINISHED SURFACES. COORDINATE PLACEMENT WITH OTHER TRADES. COVER DRAIN DURING CONSTRUCTION TO PREVENT FOREIGN OBSTACLES FROM ENTERING DRAIN. FLOOR DRAIN CONNECTION SIZE AS NOTED ON PLANS.

PLUMBING EQUIPMENT SCHEDULE	
TAG	DESCRIPTION
WH-1	AO SMITH MODEL DEL-20-4 ELECTRIC WATER HEATER. 20 GALLON STORAGE CAPACITY WITH 4 KW SINGLE HEATING ELEMENT. HEATING ELEMENT POWERED AT 208 V / 3 PH. PROVIDE 1/2" DRAIN PAN AND ROUTE 3/4" DRAIN LINE TO SERVICE SINK BELOW.
ET-1	WATTS PLT-5 EXPANSION TANK. 2.1 GALLON VOLUME, 1.48 GALLON ACCEPTANCE.
HCP-1	BELL AND GOSSETT ECOCIRC SERIES RECIRCULATION PUMP. MODEL: E3-4V/BTXRZ. 120 V, 60 HZ, 1 PH, 5-28 WATTS POWER. LEAD FREE BRASS CONSTRUCTION. 1/2" THREADED CONNECTION.

JCAA CONSULTING ENGINEERS

Job Title Sherwin Williams Manor, Texas
 Job No. 22_102
 By NP
 Checked JCAA



Static Head (SH)= 15 FT. x 0.43 = 6.45 PSI
 Pressure Available (PA)= 58 Service Press. -(6.45 (S.H.) + 15 Reqd. Press.+ 18 Meter/BFP)= 18.55
 Developed Length Longest Run= 100 FT.
 % Fitting Length= 20 FT.
 Total Equivalent Length (TEL)= 120 FT.
 Allowable Friction Loss/100ft.= 100 x 18.55 PSI(PA)= 15.5 PSI/100FT. 35.70875 FT/100FT

Pipe Size	Max. Flow (GPM)	Flush Tank F.U.	Flush Valve F.U.	Velocity FPS
1/2"	9	9.4	9.4	6.96
3/4"	13.6	14.5	14.5	9.91
1"	27.5	28	28	19.75
1 1/4"	47.8	48	48	32.24
1 1/2"	76	76.5	76.5	53.77
2"	158	156	156	106.53



© ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE LINGLE DESIGN GROUP, INC. THEY MAY NOT BE REPRODUCED, COPIED, REUSED, OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.



PROJECT #
 DRAWN BY: NP CHECKED BY: JCAA

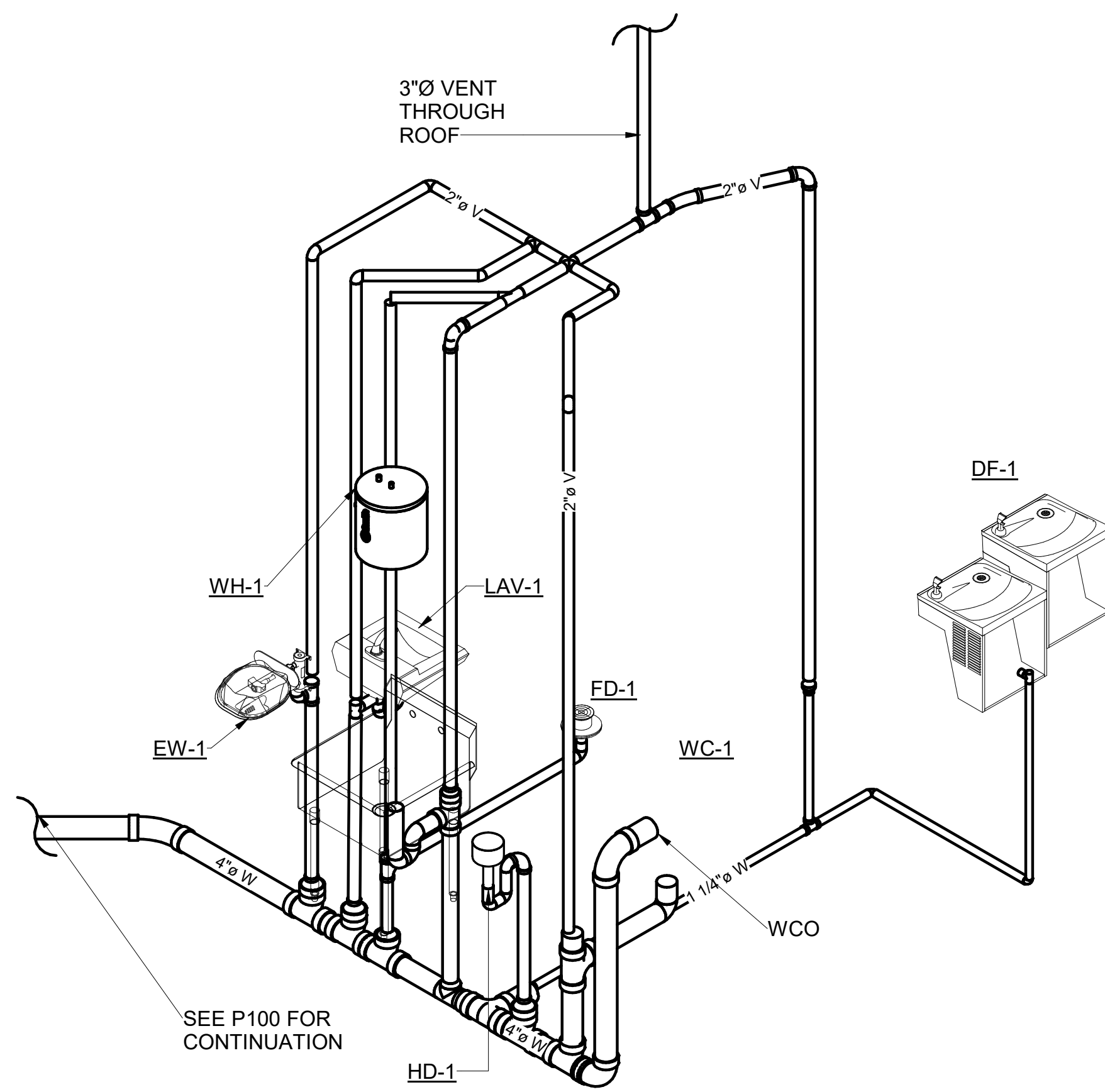
PERMIT SET - 08/12/2022

SHERWIN WILLIAMS

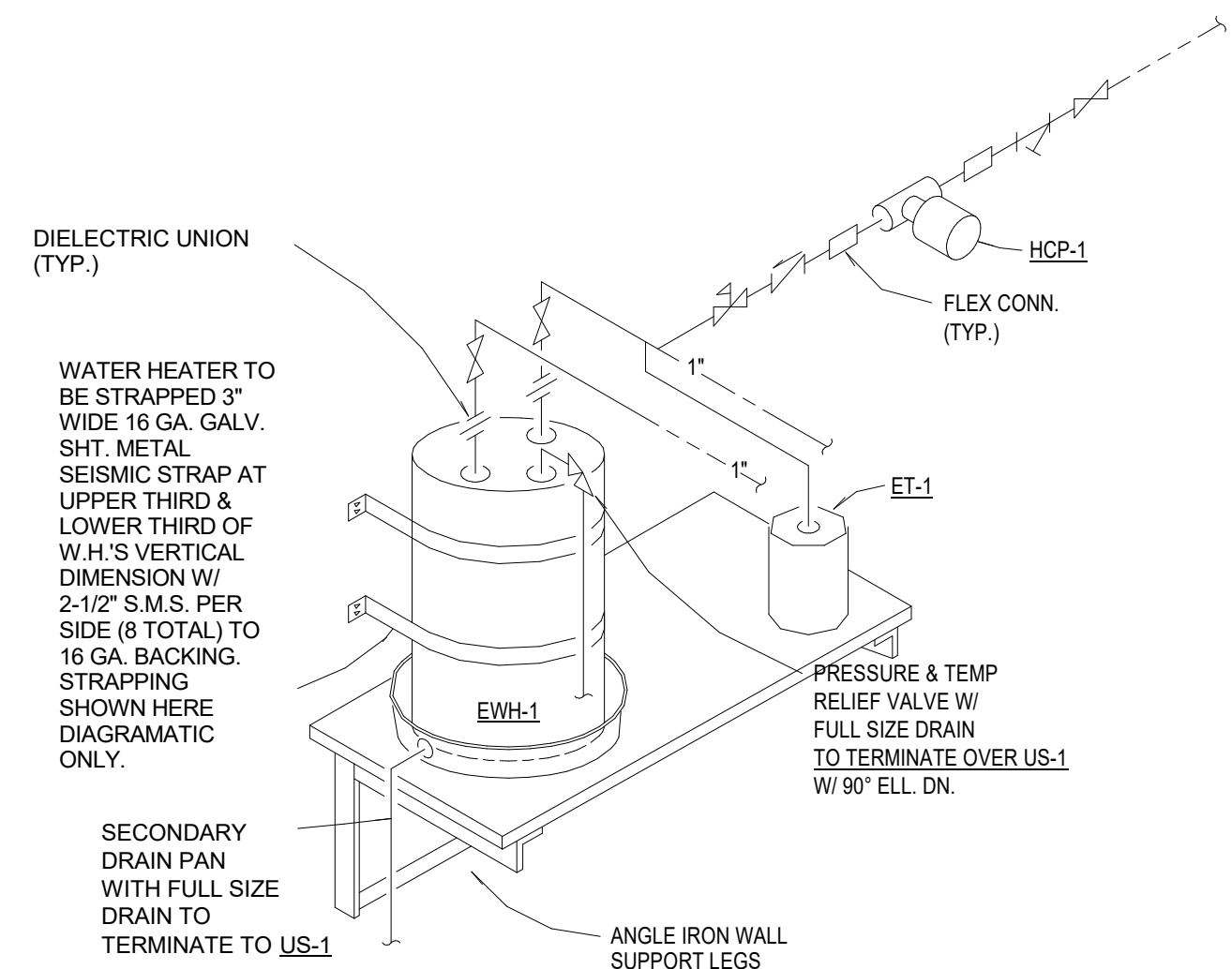
STORE #
 XXXX
 ADDRESS: LOT 3, BLOCK A, MANOR COMMONS SE COMMERCIAL MANOR, TEXAS, 78653
 SHEET TITLE:

Plumbing Schedules & Calculations

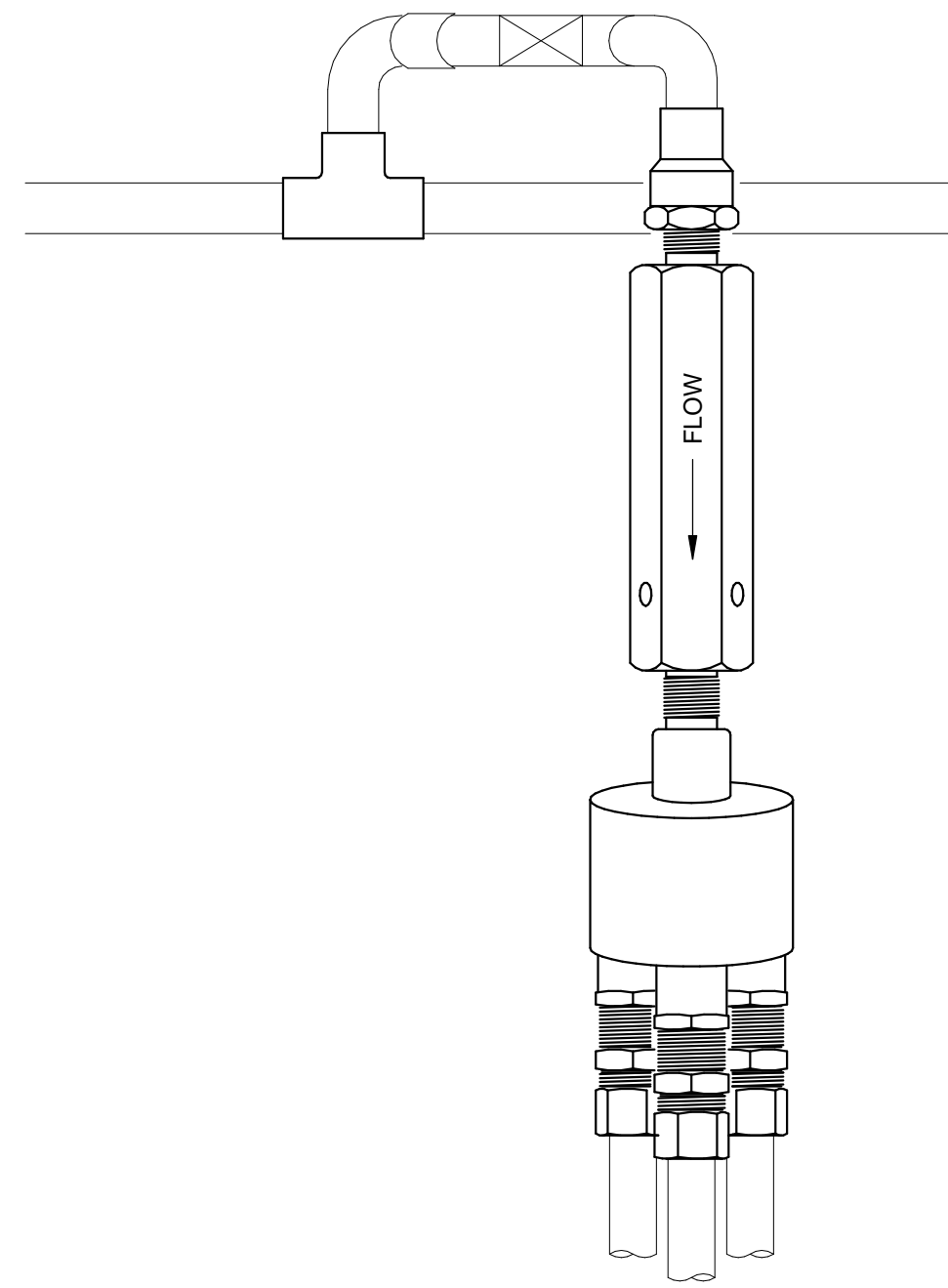
SHEET NUMBER:
P002



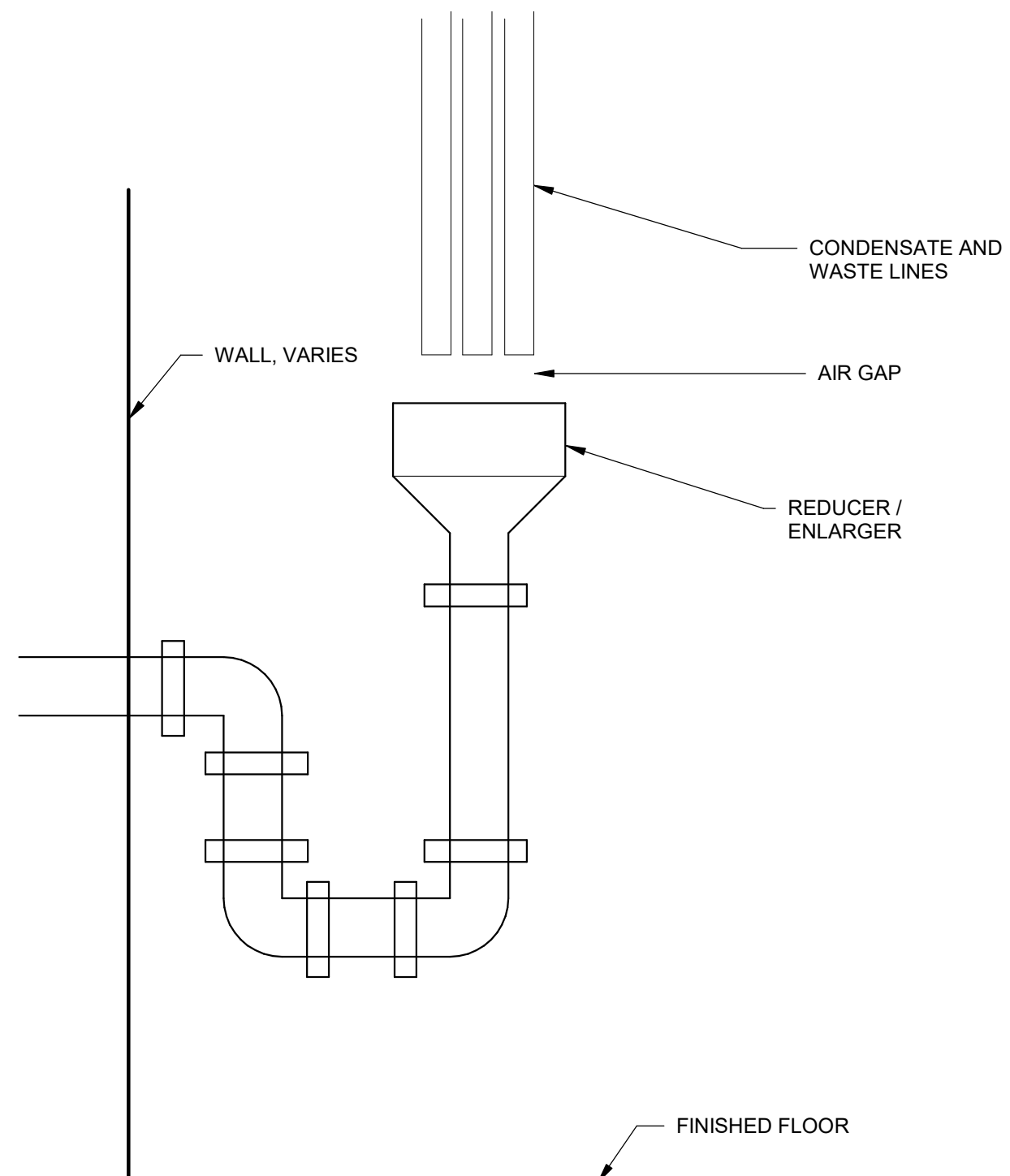
7 PLUMBING WASTE AND VENT ISOMETRIC NOT TO SCALE



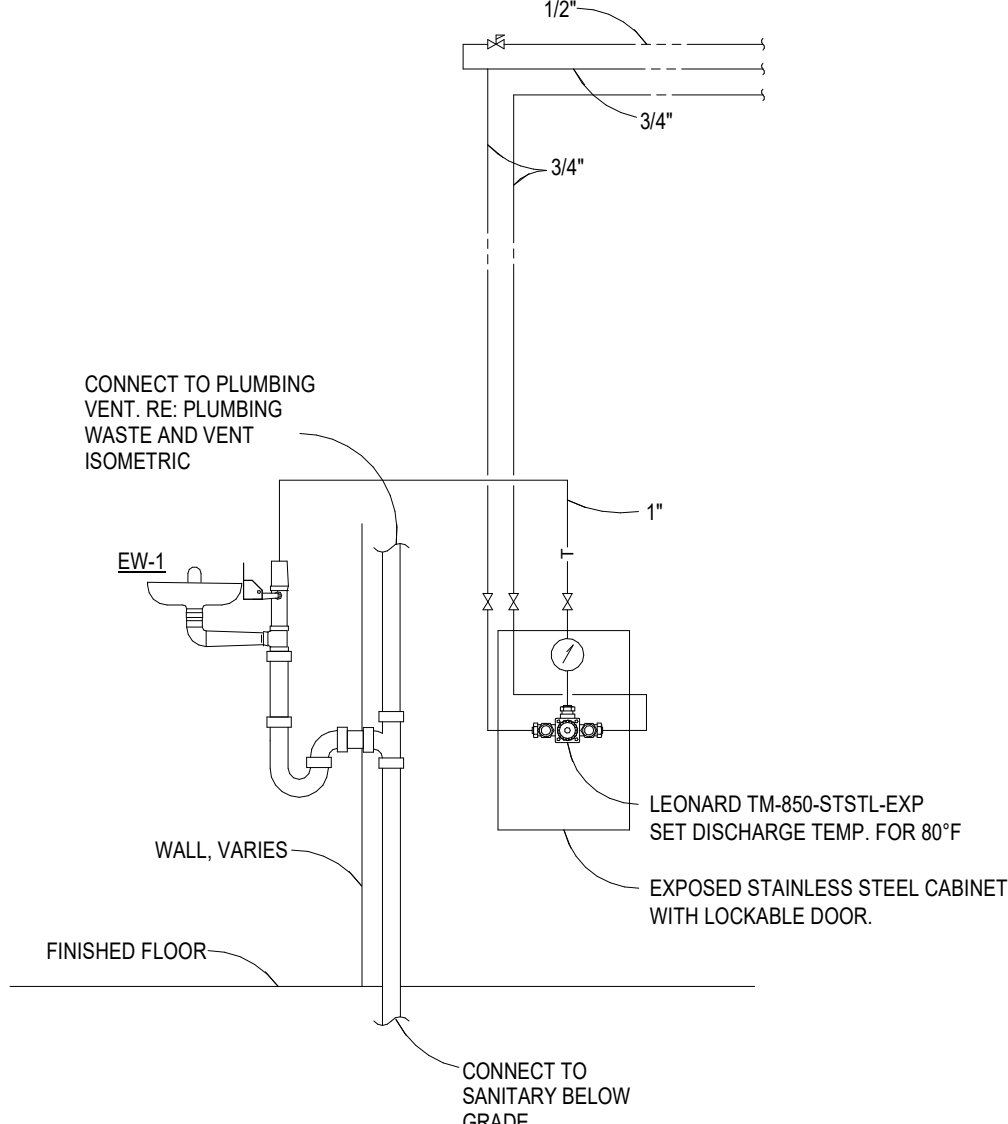
3 WATER HEATER DETAIL NOT TO SCALE



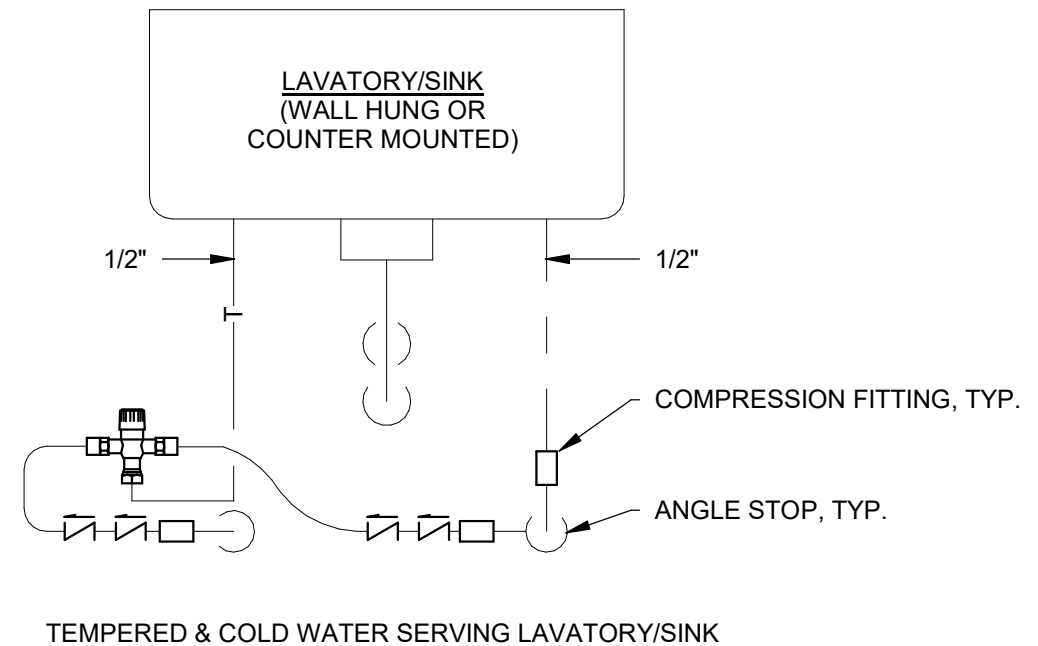
2 TRAP PRIMER DETAIL NOT TO SCALE



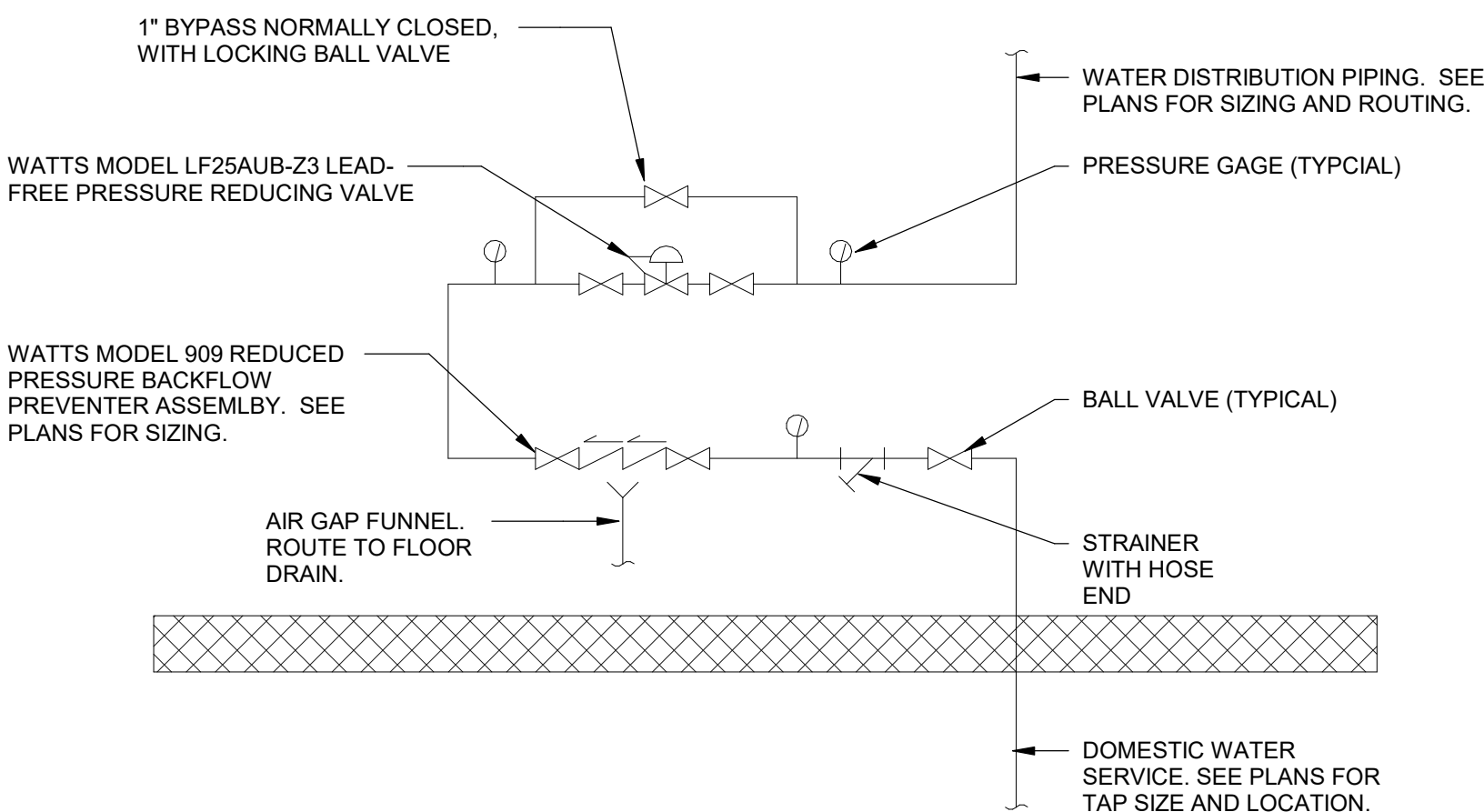
1 HUB DRAIN DETAIL 3/8" = 1'-0" NOT TO SCALE



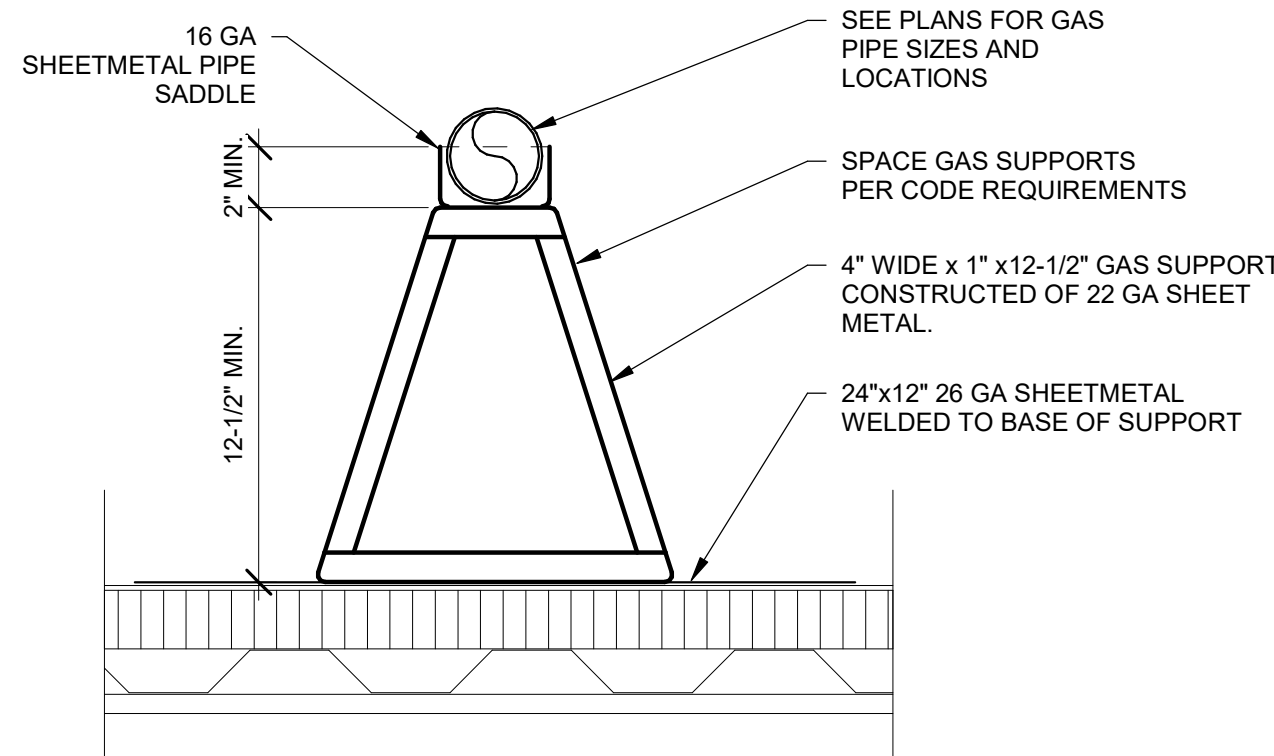
6 EYEWASH STATION DETAIL NOT TO SCALE



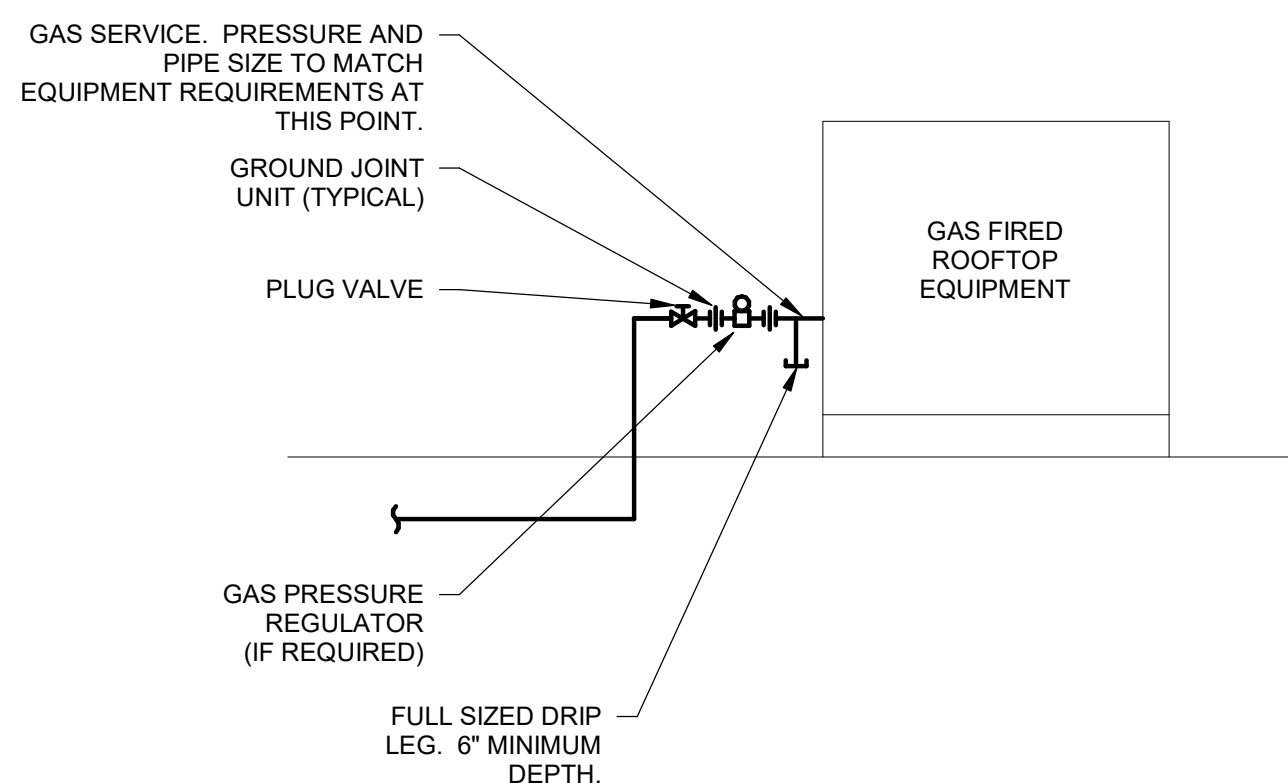
5 TEMPERING VALVE DETAIL NOT TO SCALE



4 WATER ENTRY DETAIL NOT TO SCALE



9 GAS PIPE SUPPORT ON ROOF DETAIL NOT TO SCALE



8 ROOFTOP EQUIPMENT GAS CONNECTION NOT TO SCALE

LINGLEDESIGNGROUP, INC
 158 WEST MAIN STREET
 LENA, IL 61048
 815.369.9155
 1764 BLAKE ST
 DENVER, CO 80202
 303.974.5875
 WWW.LINGLEDESIGN.COM

JCAA
 4100 Wadsworth Blvd.
 Wheat Ridge, CO 80033
 p. 303.985.3280
 TX F-14436



PROJECT #
 DRAWN BY: NP CHECKED BY: JCAA

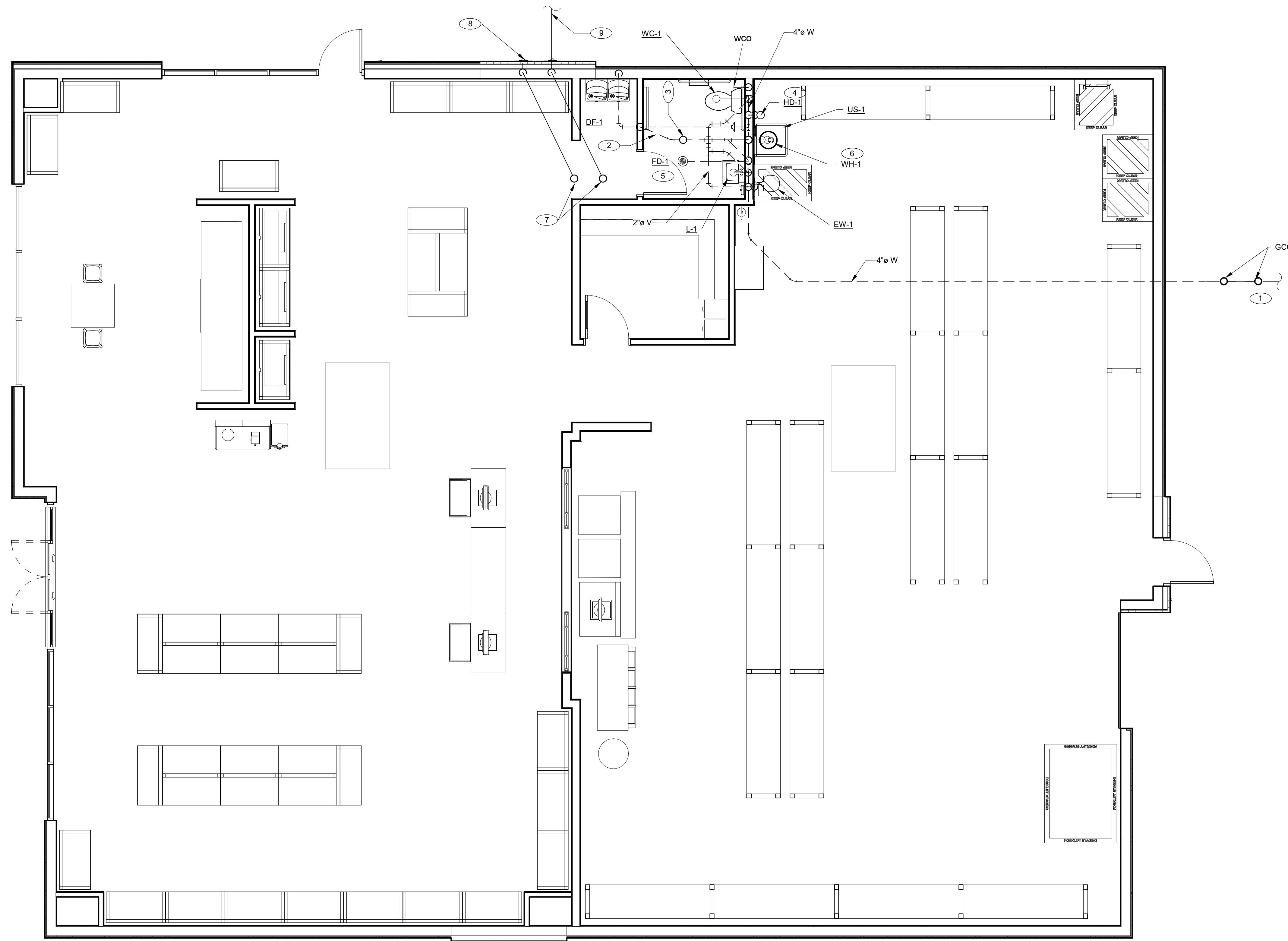
PERMIT SET - 08/12/2022

SHERWIN WILLIAMS

STORE #
 XXXX
 ADDRESS: LOT 3, BLOCK
 A, MANOR COMMONS SE
 COMMERCIAL
 MANOR, TEXAS, 78653

Plumbing Details and Isometric

SHEET NUMBER:
P004



GENERAL NOTES:

1. PLUMBING DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS. TAKE ALL DIMENSIONS FROM ARCHITECTURAL DRAWINGS, CERTIFIED EQUIPMENT DRAWINGS AND FROM THE STRUCTURE ITSELF BEFORE FABRICATING ANY WORK. VERIFY ALL SPACE REQUIREMENTS COORDINATING WITH OTHER TRADES, AND INSTALL THE SYSTEMS IN THE SPACE PROVIDED WITHOUT EXTRA CHARGES TO THE OWNER.
2. CONTRACTOR SHALL COORDINATE WORK INDICATED WITH MECHANICAL, ELECTRICAL, FIRE PROTECTION, STRUCTURAL, CIVIL, AND ARCHITECTURAL DIVISIONS. CONTRACTOR SHALL VERIFY SIZE & LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING WORK. COORDINATE WITH OTHER TRADES AND MAKE FINAL CONNECTION. SUBMIT 1/4\"/>

SHEET NOTES:

1. 4\"/>

1 Plumbing Waste and Vent
1/4\"/>

LINGLEDESIGNGROUP, INC
 158 WEST MAIN STREET
 LENA, IL 61048
 815.369.9155
 1764 BLAKE ST
 DENVER, CO 80202
 303.974.5875
 WWW.LINGLEDESIGN.COM

JCAA
 4100 Wadsworth Blvd.
 Wheat Ridge, CO 80033
 p. 303.985.3280
 TX F-14436
 #22102

ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE LINGLE DESIGN GROUP, INC. THEY MAY NOT BE REPRODUCED, COPIED, REUSED, OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.



PROJECT #:
 DRAWN BY: NP CHECKED BY: JCAA

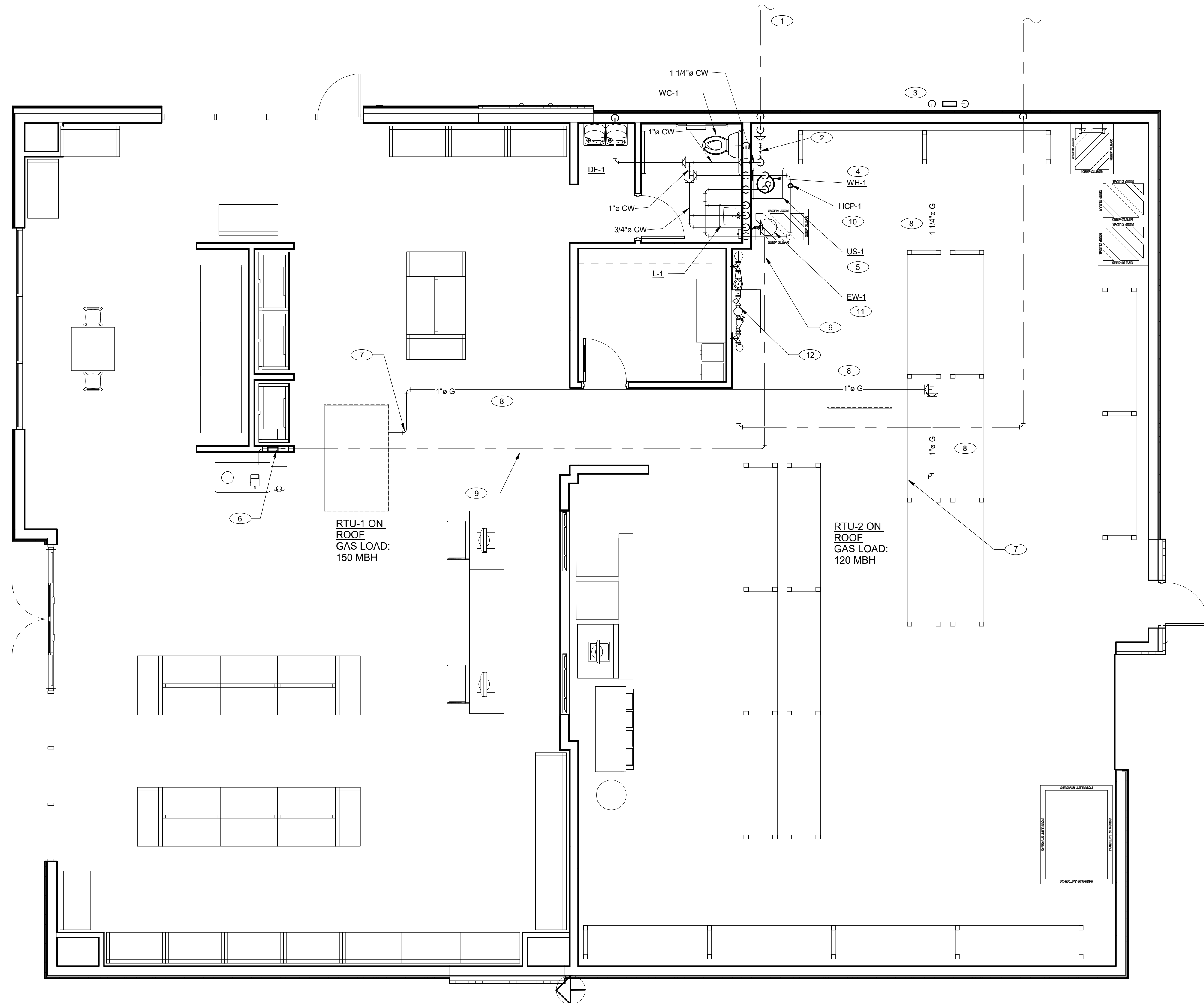
PERMIT SET - 08/12/2022

SHERWIN WILLIAMS

STORE #:
 XXXX
 ADDRESS: LOT 3, BLOCK
 A, MANOR COMMONS SE
 COMMERCIAL
 MANOR, TEXAS, 78653
 SHEET TITLE:

Plumbing Waste
 and Vent Plan

SHEET NUMBER:
P100



① Plumbing Water and Gas
1/4" = 1'-0"

GENERAL NOTES:

1. PLUMBING DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS. TAKE ALL DIMENSIONS FROM ARCHITECTURAL DRAWINGS, CERTIFIED EQUIPMENT DRAWINGS AND FROM THE STRUCTURE ITSELF BEFORE FABRICATING ANY WORK. VERIFY ALL SPACE REQUIREMENTS COORDINATING WITH OTHER TRADES, AND INSTALL THE SYSTEMS IN THE SPACE PROVIDED WITHOUT EXTRA CHARGES TO THE OWNER.
2. CONTRACTOR SHALL COORDINATE WORK INDICATED WITH MECHANICAL, ELECTRICAL, FIRE PROTECTION, STRUCTURAL, CIVIL, AND ARCHITECTURAL DIVISIONS. CONTRACTOR SHALL VERIFY SIZE & LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING WORK. COORDINATE WITH OTHER TRADES AND MAKE FINAL CONNECTION. SUBMIT 1/4" SCALE SHOP DRAWINGS FOR PLUMBING SYSTEMS, DIMENSIONED TO INCORPORATE THE WORK OF OTHER TRADES. INDICATE SPACES RESERVED FOR FIRE SPRINKLER, PLUMBING PRIOR TO FABRICATION. COORDINATE ALL CHASE, SLEEVE, AND SLAB BLOCKOUTS BEFORE CONCRETE IS POURED OR BLOCK SET.
3. PROVIDE ACCESSIBLE SHUT-OFF VALVES ON ALL NEW FIXTURE HW & CW BRANCHES.
4. ALL WATER SUPPLY LINES LESS THAN 1" IN DIAMETER SHALL BE COPPER OR COPPER ALLOY. USE ONLY CAST AND WROUGHT COPPER AND COPPER ALLOY PRESS-CONNECT PRESSURE FITTINGS: ASME B16.51. DO NOT USE SOLDER OR BRAZED CONNECTIONS. PRESS-CONNECT JOINTS: PRESS-CONNECT JOINTS SHALL BE MADE IN ACCORDANCE WITH THE FITTING MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS USING A PRESS-CONNECT TOOL AND JAWS APPROVED FOR USE FOR THE MANUFACTURER'S SPECIFIC FITTING CONFIGURATION. COPPER ALLOY TUBE SHALL BE MECHANICALLY CLEANED AND REAMED PRIOR TO JOINING TO REMOVE ALL BURRS (INTERIOR AND EXTERIOR) AND RESTORE FULL INSIDE DIAMETER AND A SMOOTH, CHAMFERED EXTERIOR SURFACE. FITTINGS SHALL HAVE EPDM SEALING ELEMENTS.
5. PROVIDE TRAP PRIMERS FOR ALL FLOOR AND HUB DRAINS.

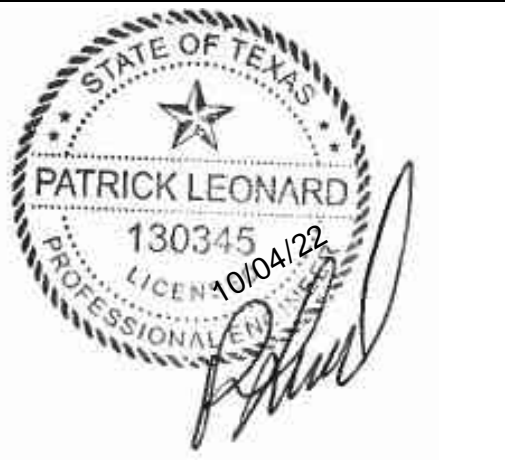
SHEET NOTES:

1. EXISTING 1-1/2" WATER SERVICE PIPE FROM OUTSIDE OF BUILDING TO EXISTING 1" METER AND 1-1/2" TAP. SEE CIVIL FOR CONTINUATION.
2. FURNISH AND INSTALL 1" BACKFLOW PREVENTER AND STRAINER FOR DOMESTIC WATER SERVICE. ROUTE RELIEF PIPING TO DISCHARGE INDIRECTLY IN TO SERVICE SINK DRAIN. SEE DOMESTIC WATER ENTRY DETAIL FOR MORE INFORMATION. ROUTE DOMESTIC WATER ENTRY ASSEMBLY EITHER ABOVE OR BELOW FIRE SPRINKLER RISER. CONTRACTOR TO COORDINATE IN FIELD.
3. ROUTE 1-1/2" GAS PIPING TO NEW GAS METER. TOTAL GAS METER LOAD: 270 MBH. CONTRACTOR TO VERIFY METER LOCATION IN FIELD. VERIFY GAS METER LOCATION WITH GAS COMPANY PRIOR TO WORK.
4. MOUNT WATER HEATER ABOVE UTILITY SINK ON PLATFORM.
5. PROVIDE AND INSTALL ANTI-SCALD MIXING VALVE AT LAVATORY AND UTILITY SINK TO TEMPER HOT WATER FOR PUBLIC USE. SET VALVE TO DISCHARGE A MAXIMUM OF 110°F.
6. COLD WATER CONNECTION TO COFFEE MAKER. PROVIDE SHUTOFF VALVE AND BACKFLOW PREVENTER IN WALL IN A RECESSED VALVE BOX PRIOR TO CONNECTION TO EQUIPMENT.
7. GAS PIPING TO ROOF TOP UNIT. PROVIDE GAS COCK, DIRT LEG AND UNION PRIOR TO CONNECTION TO EQUIPMENT. TRANSITION AS NECESSARY.
8. LOW PRESSURE GAS PIPING ON ROOF.
9. ROUTE CW PIPING CONCEALED IN SLAB TO COFFEE MAKER. PIPING SHALL NOT BE EXPOSED IN SALES FLOOR.
10. HOT WATER RECIRCULATION PUMP INSTALLED ON 1/2" HOT WATER RETURN. SET HOT WATER RECIRCULATION PUMP TO 1 GPM.
11. ROUTE CW/HW PIPING DOWN TO EYEWASH MIXING VALVE. REFER TO DETAIL 8 ON P004.
12. FIRE SPRINKLER RISER SHOWN FOR REFERENCE ONLY. REFER TO FIRE DRAWINGS FOR MORE INFORMATION.

LINGLEDESIGNGROUP, INC
 158 WEST MAIN STREET
 LENA, IL 61048
 815.369.9155
 1764 BLAKE ST
 DENVER, CO 80202
 303.974.5875
 WWW.LINGLEDESIGN.COM

JCAA
 4100 Wadsworth Blvd.
 Wheat Ridge, CO 80033
 p. 303.985.3280
 TX F-14436

ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE LINGLE DESIGN GROUP, INC. THEY MAY NOT BE REPRODUCED, COPIED, REUSED, OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.



PROJECT #

DRAWN BY: NP CHECKED BY: JCAA

PERMIT SET - 08/12/2022

SHERWIN WILLIAMS

STORE #
XXXX
 ADDRESS: LOT 3, BLOCK
 A, MANOR COMMONS SE
 COMMERCIAL
 MANOR, TEXAS, 78653
 SHEET TITLE:

Plumbing Water and
Gas Plan

SHEET NUMBER:
P101

SHERWIN WILLIAMS SITE PLAN

LOCATED OFF OF FM 973 N & RING DR, MANOR, STATE OF TEXAS

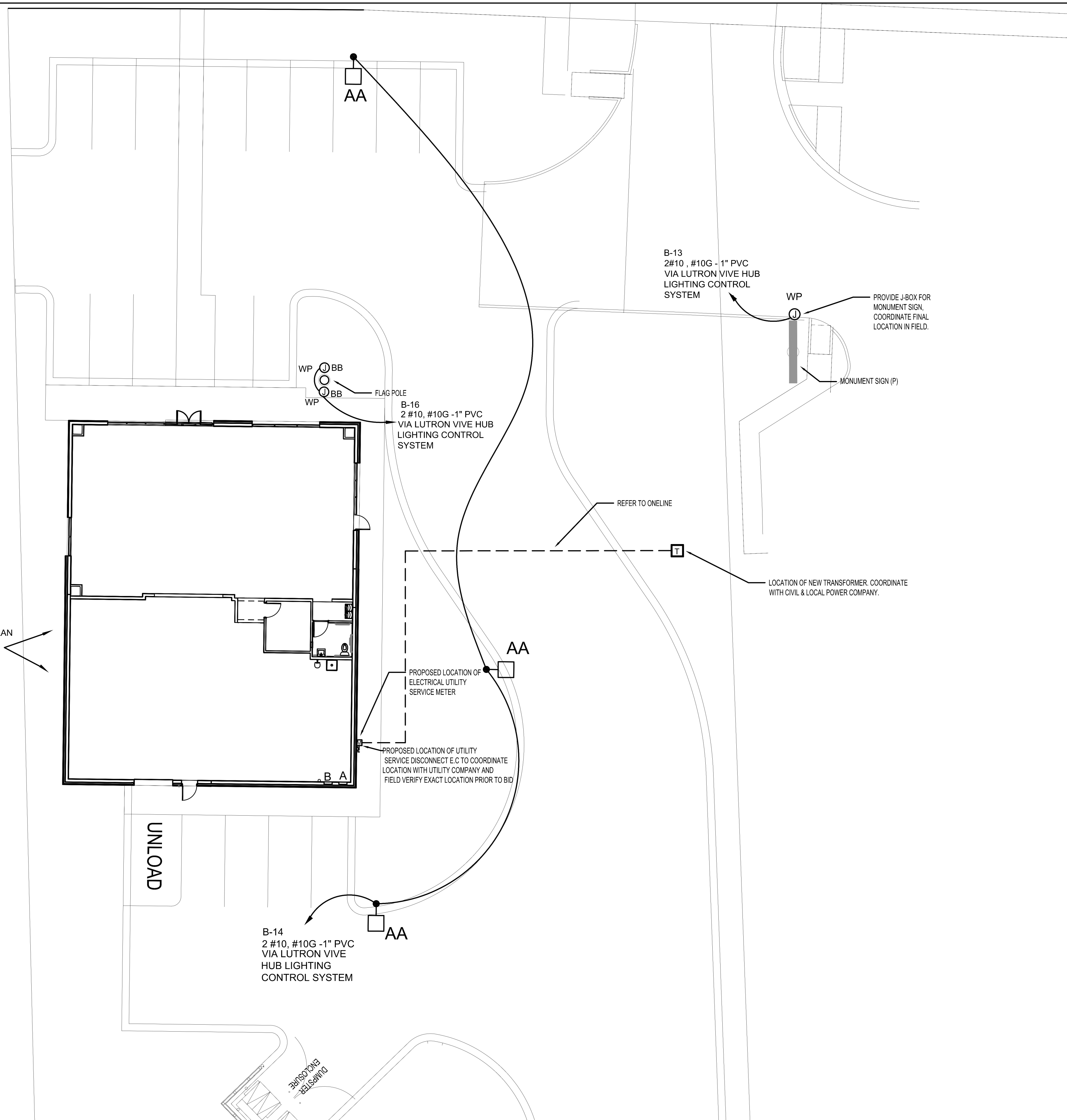
LOT 3, BLOCK "A" HIGHWAY 973 MANOR, TX 78653

SYMBOL	DESCRIPTION
GND	INDICATES GROUND
PNL	INDICATES PANEL
WP	INDICATES WEATHER-PROOF (NEMA 3R)
	NON-FUSED DISCONNECT SWITCH - 30A, 3P, UNLESS NOTED OTHERWISE
	SURFACE MOUNTED PANELBOARD
	FUSED NEMA 3R DISCONNECT SWITCH
	MOTOR OUTLET
	HOMERUN CONDUIT - ARROW INDICATES QUANTITY OF CIRCUITS
	CONDUIT AND/OR WIRE CONCEALED IN WALL OR ABOVE CEILING
	LED STRIP
	LED TROFFER
	RECESSED/SURFACE DOWNLIGHT
	PENDANT MOUNTED LUMINAIRE
	WALL SCONCE
	RECESSED LED
	SWITCH
	3 WAY SWITCH
	SWITCH OCCUPANCY SENSOR
	CEILING MOUNTED OCCUPANCY SENSOR
	RECEPTACLE
	GFI RECEPTACLE
	QUAD RECEPTACLE
	DUPLEX RECEPTACLE/TELE-DATA
	TELE-DATA OUTLET
	COAX OUTLET
	JUNCTION BOX
	PUSH BUTTON
	SMOKE DETECTOR
	HORN STROBE
	MANUAL PULL BOX
	COMBINATION BATTERY PACK EGRESS / EXIT LIGHT
	EM WALL SCONCE
	BATTERY BACK EGRESS LIGHT
	MECHANICAL EQUIPMENT - SEE HVAC AND PLUMBING DRAWINGS
	GROUND BUS & GROUND ELECTRODES

CODES & DESIGN CRITERIA	
JURISDICTION:	MANOR, TX
ELECTRICAL CODE:	2014 NATIONAL ELECTRICAL CODE
ENERGY CODE:	2015 INTERNATIONAL ENERGY CONSERVATION CODE

SHEET INDEX		
ISSUE	SHEET NO.	SHEET DESCRIPTION
PER CITY COMMENTS - 06/06/2022		
PERMIT SET - 04/18/2022		
	E001	ELECTRICAL SITE PLAN
	E100	ELECTRICAL SPECIFICATIONS
	E101	ELECTRICAL SPECIFICATIONS
	E200	LIGHTING PLAN
	E300	POWER PLAN
	E400	ELECTRICAL ONE LINE DIAGRAM
	E500	COMCHECK
	E501	ELECTRICAL DETAILS
	E600	PHOTOMETRICS

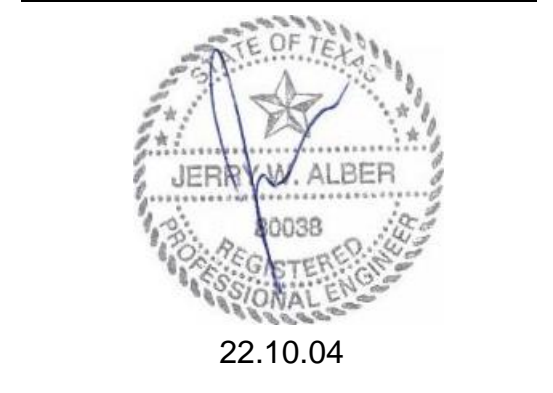
REFER TO LIGHTING PLAN FOR ALL EXTERIOR BUILDING MOUNTED LIGHTING



LINGLEDESIGNGROUP, INC
158 WEST MAIN STREET
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5875
WWW.LINGLEDESIGN.COM

JCAA
4100 Wadsworth Blvd.
Wheat Ridge, CO 80033
p 303.985.3280
TX F-14436

ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE ENGINEER DESIGN GROUP, INC. THEY MAY NOT BE REPRODUCED, COPIED, REUSED, OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.



PROJECT #:
22.102
DRAWN BY: CO CHECKED BY: JCAA

PERMIT SET - 08/12/2022
▲
▲
▲
▲
▲

SHERWIN WILLIAMS

STORE #
XXXX
ADDRESS:
LOT 3, BLOCK "A"
HIGHWAY 973
MANOR, TX 78653

SHEET TITLE:
ELECTRICAL SITE PLAN

SHEET NUMBER:
E001

1 ELECTRICAL SITE PLAN
SCALE: 1/16" = 1'- 0"

9. TRANSFORMERS

A. DRY-TYPE TRANSFORMERS (DOE 2016) SHALL BE OF THE ENCLOSED VENTILATED TYPE WITH KVA AND VOLTAGE RATINGS AS CALLED FOR ON THE DRAWINGS AND WITH 150' CLASS H INSULATION AND MINIMUM OF SIX STANDARD FULL CAPACITY TAPS. SOUND LEVEL SHALL BE LOW AND INSTALLATION SHALL INCLUDE KORFUND OR EQUAL VIBRATION DAMPENING MOUNTS AND FLEXIBLE STEEL CONDUIT FOR PRIMARY AND SECONDARY. (MOUNT TRANSFORMER ON VIBRATION ISOLATORS). LOCATE TRANSFORMER AS NOT TO CAUSE SERVICING OR CLEARANCE DIFFICULTIES OF VIOLATIONS WITH OTHER EQUIPMENT.

B. COMPARABLE EQUIPMENT AS MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, SIEMENS OR EATON.

10. TOGGLE SWITCHES

A. TOGGLE SWITCHES SHALL BE WHITE AND SHALL BE RATED 20 AMPERES 120/277 VOLT AC TYPE AS MANUFACTURED BY HUBBELL AND SHALL BE AS FOLLOWS.

SINGLE POLE -- 1221--W
THREE WAY -- 1223--W

B. TOGGLE SWITCHES SHALL BE MOUNTED 4"-0" ABOVE FINISHED FLOOR TO TOP OF MOUNTING PLATE AND, AT DOORS, INSTALLED ADJACENT TO THE TRIM ON THE STRIKING SIDE OF THE DOOR, REGARDLESS OF THE LOCATION INDICATED ON THE DRAWINGS; THEREFORE, CHECK ALL DOOR SWINGS BEFORE INSTALLATION OF CONDUIT OUTLETS.

C. COMPARABLE EQUIPMENT AS MANUFACTURED BY COOPER WIRING, SLATER, LEVITON, AND BRYANT WILL BE ACCEPTABLE.

11. RECEPTACLES

A. RECEPTACLES SHALL BE WHITE AS MANUFACTURED BY HUBBELL AND SHALL BE AS FOLLOWS:

DUPLEX RECEPTACLE -- 20A--125 VOLT 5362--W
GFCI DUPLEX RECEPTACLE -- 20A--125 VOLT GF5362--W

B. RECEPTACLES SHALL BE MOUNTED 18" ABOVE THE FINISHED FLOOR TO BOTTOM OF BOX UNLESS OTHERWISE NOTED.

C. COMPARABLE EQUIPMENT AS MANUFACTURED BY COOPER WIRING, SIERRA ELECTRIC CORPORATION, SLATER, BRYANT AND LEVITON WILL BE ACCEPTABLE.

12. DEVICE PLATES

A. DEVICE PLATES SHALL BE STAINLESS STEEL UNLESS OTHERWISE NOTED. COMPARABLE EQUIPMENT AS MANUFACTURED BY COOPER WIRING, SIERRA ELECTRIC CORPORATION, HARVEY HUBBLE INC., BRYANT AND LEVITON WILL BE ACCEPTABLE. PAINT MATCH ADJACENT FINISH COLOR.

B. GRAY PLATES TO BE INSTALLED ON SINGLE DEVICE, DEDICATED CIRCUITS

13. DISCONNECT SWITCHES

A. FURNISH AND INSTALL DISCONNECT SWITCHES AS REQUIRED BY CODE. DISCONNECT SWITCHES SHALL BE NEMA HEAVY DUTY TYPE AND UNDERWRITERS LABORATORIES LISTED, MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, EATON OR SIEMENS.

14. GROUNDING

A. CONTRACTOR SHALL INSTALL GROUNDING PER N.E.C. ARTICLE 250 EQUIPMENT GROUNDING SHALL USE ONLY APPROVED GROUNDING CLAMPS AND CONNECTORS AS MANUFACTURED BY PENN-UNION, BURNDY, OR O-2 MFG. COMPANY.

B. GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH THE N.E.C. ARTICLE 250 AND THE UTILITY COMPANY REGULATIONS. CONTRACTOR SHALL CONNECT THE GROUNDING ELECTRODE CONDUCTORS TO THE NEUTRAL BAR INSIDE THE MAIN PANEL.

C. THE EQUIPMENT GROUNDING SYSTEM SHALL CONSIST OF A CONTINUOUS CONDUIT INSTALLATION AND A GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR. THIS GROUNDING CONDUCTOR SHALL BE INSTALLED IN EVERY CONDUIT OR RACEWAY WITH THE FEEDER OR BRANCH CIRCUIT CONDUCTORS. THIS GROUNDING SHALL BE EXTENDED FROM THE HOUSING OF EVERY ELECTRICAL LOAD, THROUGH PANELBOARD STATIC GROUNDING BUSES, TO THE STATIC GROUNDING BUS IN THE MAIN PANEL. THE GROUNDING BUS SHALL BE BONDED TO THE GROUNDING NEUTRAL BAR INSIDE THE MAIN PANEL.

15. LIGHTING FIXTURES

A. ALL LIGHTING FIXTURES AND LAMPS SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE. THIS CONTRACTOR SHALL INSTALL LIGHTING FIXTURES AND LAMPS AS INDICATED ON THE DRAWINGS AND AS SPECIFIED BELOW. COMPLETE WITH HANGERS, PLASTER FRAMES AND ALL OTHER NECESSARY ACCESSORIES.

B. ALL BALLAST, STARTERS AND LAMP HOLDERS IN FLUORESCENT LIGHTING EQUIPMENT ARE TO BE ELECTRICAL TESTING LABORATORIES, UNDERWRITERS LABORATORIES AND CERTIFIED BALLAST MANUFACTURERS APPROVED. ALL BALLAST FOR FLUORESCENT FIXTURES SHALL BE OF THE HIGH POWER FACTOR TYPE AND SHALL BE GENERAL ELECTRIC "MAXI-MISER II" OR ADVANCED MARK III. WHERE OCTRON LAMPS ARE SPECIFIED PROVIDE APPROPRIATE BALLASTS.

C. THIS CONTRACTOR SHALL VERIFY THE FINAL CEILING AND FINISH SCHEDULES TO INSURE THE PROPER INSTALLATION AND MOUNTING OF FIXTURES AND SHALL COORDINATE BEFORE MAKING SUBMITTALS.

16. LIGHTING CONTROLS

A. PANEL #GR1408LTENC-dMNE1-GR1408-DTCMOD WITH 8 RELAYS AND BUILT-IN TIME CLOCK AND AS MANUFACTURED BY LC&D.

B. TIME SWITCHES SHALL BE 24 HOUR, 7 DAY, DAY SKIPPER 365 DAYS AND HOLIDAYS TYPE AS MANUFACTURED BY TORK, INTERMATIC, OR PARAGON.

17. TELEPHONE SERVICE

A. THIS CONTRACTOR SHALL INSTALL A TELEPHONE SERVICE CONDUIT AS SHOWN ON THE DRAWINGS AND FURNISH AND INSTALL (1) 3' x 4' x 3/4" PLYWOOD PANEL MOUNTED ON THE WALL AT LOCATION SHOWN ON PLANS.

18. SURFACE METAL RACEWAY

A. SURFACE METAL RACEWAY SHALL BE TWO PIECE #2100 AS MANUFACTURED BY WIREMOLD. ALL NECESSARY ACCESSORIES REQUIRED TO FIT THE CONFIGURATION SHOWN SHALL BE PROVIDED. RECEPTACLES SHALL BE 120 VAC, 23 APMS, CATALOG NUMBER #2127GT.



LINGLEDESIGNGROUP,INC
158 WEST MAIN STREET
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5875
WWW.LINGLEDESIGN.COM



JCAA
4100 Wadsworth Blvd.
Wheat Ridge, CO 80033
p. 303.985.3280
TX F-14436

© ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE LINGLE DESIGN GROUP, INC. THEY MAY NOT BE REPRODUCED, COPIED, REUSED, OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.



22.10.04

PROJECT #:
22.102
DRAWN BY: CO CHECKED BY: JCAA

PERMIT SET - 08/12/2022
△
△
△
△
△

SHERWIN WILLIAMS

STORE #
XXXX
ADDRESS:
LOT 3, BLOCK "A"
HIGHWAY 973
MANOR, TX 78653

SHEET TITLE:
ELECTRICAL
SPECIFICATIONS

SHEET NUMBER:
E101

GENERAL NOTES:

1. EC SHALL REFER TO AND COORDINATE ALL FIXTURE LOCATIONS, HEIGHTS AND TYPE WITH A130.

SHEET NOTES

1. CONNECT EMERGENCY EGRESS LIGHTING FIXTURES AHEAD OF ALL LIGHTING CONTROLS OF GENERAL LIGHTING CIRCUIT SERVING AREA.
2. NIGHT LIGHTING TO BE CONNECTED TO UNSWITCHED LEG OF CIRCUIT SERVING SPACE. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN AND INSTALLATION.
3. E.C. TO PROVIDE LUTRON #LRF2-OCR28-0-WH OCCUPANCY SENSOR FOR CONTROL OF AREA LIGHTING AT CEILING MOUNTED HEIGHT OR AS DIRECTED BY G.C. INSTALL PER MANUFACTURER SPECIFICATIONS.
4. LOCATION OF MAIN LIGHTING SWITCHBANK. REFER TO SWITCHBANK DETAIL ON SHEET E400 FOR ADDITIONAL INFORMATION. PROVIDE PERMANENT LABELS.
5. E.C. TO PROVIDE 20A1P, 120V POWER FOR SIGN. PROVIDE NON-FUSED DISCONNECT SWITCH ABOVE ACCESSIBLE CEILING. PROVIDE DEDICATED CIRCUIT #10 COPPER GROUND WIRE FROM EQUIPMENT GROUND BUS IN PANEL FOR CIRCUIT SERVING SIGN. SEE DETAIL ON SHEET E400 FOR VIVE LIGHTING CONTROL SYSTEM. DO NOT USE CONDUIT AS GROUND. FIELD VERIFY EXACT LOCATION OF ROUGH-IN WITH OWNER REPRESENTATIVE. COORDINATE AND VERIFY EXACT REQUIREMENTS WITH SIGNAGE VENDOR PRIOR TO ROUGH-IN. MOUNT ABOVE DOOR, SHOWN OFFSET FOR CLARITY.
6. NOT IN USE.
7. EXTERIOR LIGHTING CIRCUITS CONTROLLED THROUGH LUTRON VIVE HUB LIGHTING CONTROL SYSTEM. VERIFY EXACT FIXTURE MOUNTING HEIGHT PRIOR TO ROUGH-IN AND INSTALLATION.
8. EXTERIOR WALL MOUNTED LED FIXTURE TO BE INSTALLED ABOVE OVERHEAD DOOR. LIGHT SHALL BE CONTROLLED VIA PHOTO-EYE SWITCH. COORDINATED EXACT LOCATION WITH G.C. PRIOR TO INSTALLATION.
9. COORDINATE FIXTURE MOUNTING HEIGHT WITH ARCHITECTURAL PLANS AND G.C.
10. E.C. TO PROVIDE LUTRON #LRF2-DCRB-WH DAYLIGHT SENSOR FOR CONTROL OF LIGHTING IN DAYLIGHT ZONE. ALL LIGHTING WITHIN SPECIFIED AREA TO BE PROVIDED WITH AUTOMATIC CONTROL DIMMING VIA DAYLIGHTING SENSOR SWITCH. TWO HOUR MANUAL OVERRIDE CONTROL SHALL BE PROVIDED AT SWITCH BANK. DAYLIGHTING SHALL BE DESIGNATED AS CONTROL ZONE "N".
11. E.C. TO PROVIDE LUTRON #HJS-0-GM HUB ABOVE CEILING FOR CONTROL OF AREA LIGHTING.
12. E.C. TO PROVIDE LUTRON #PJ2-4B-GWH-L01 (CW-1-WH) PICO 4 BUTTON CONTROL FOR LIGHTING CONTROL SWITCHING. CONNECT TO ASSOCIATED POWER PACK DIMMING MODULE FOR CONTROL DIMMING OF LIGHTING.
13. NOT IN USE.
14. NOT IN USE.
15. NOT IN USE.
16. PROPOSED LOCATION OF LUTRON #RMJS-8T-DV-B DIMMING MODULE FOR 0-10V DIMMING CONTROL OF LIGHTING. COORDINATE WITH LUTRON SYSTEMS AND ASSOCIATED SWITCHING AS SHOWN.
17. PROPOSED LOCATION OF LUTRON #RMJS-5R-DV-B POWER PACK RELAY MODULE FOR CONTROL OF AREA LIGHTING. COORDINATE WITH LUTRON SYSTEMS AND ASSOCIATED SWITCHING AS SHOWN.
18. E.C. TO PROVIDE LUTRON #MRF2S-6ELV120-WH WIRELESS DIMMING CONTROL SWITCHING FOR CONTROL OF UNDER COUNTER TASK LIGHTING. COORDINATE WITH LUTRON SYSTEMS AND MANUFACTURER SPECIFICATIONS.
19. PROPOSED LOCATION OF LUTRON #RMJS-20R-DV-B RECEPTACLE CONTROL RELAY MODULE. COORDINATE WITH LUTRON SYSTEMS AND ASSOCIATED SWITCHING AS SHOWN. COORDINATE WITH SHEET E300.

LINGLEDESIGNGROUP, INC
 158 WEST MAIN STREET
 LENA, IL 61048
 815.369.9155
 1764 BLAKE ST
 DENVER, CO 80202
 303.974.5875
 WWW.LINGLEDESIGN.COM

JCAA
 4100 Wadsworth Blvd.
 Wheat Ridge, CO 80033
 p 303.985.3280
 TX F-14436

ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE ENGINEER DESIGN GROUP, INC. THEY MAY NOT BE REVISED, COPIED, REPRODUCED, OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.



22.10.04

PROJECT #:
 22.102
 DRAWN BY: CO CHECKED BY: JCAA

PERMIT SET - 0812/2022



SHERWIN WILLIAMS

STORE #
 XXXX

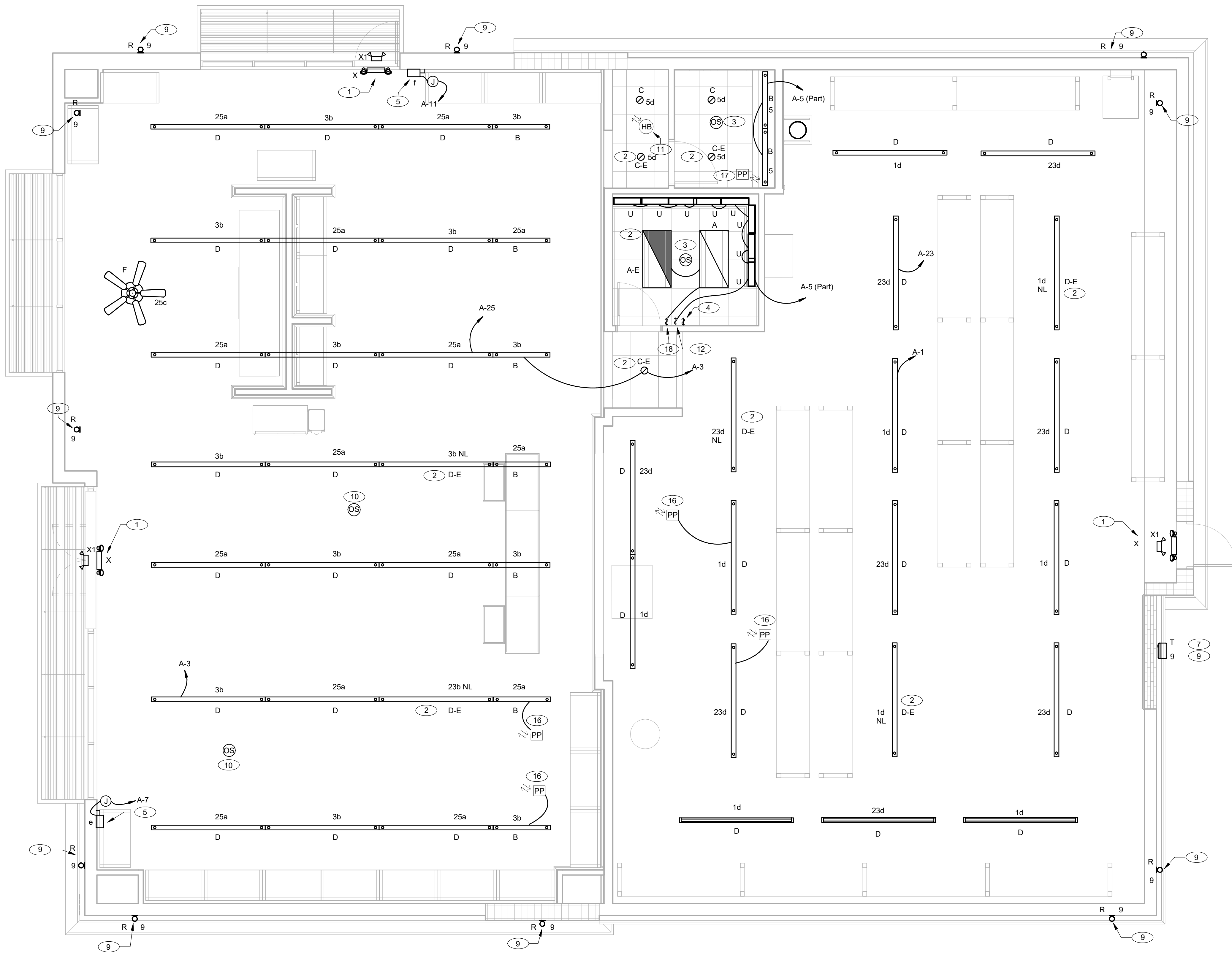
ADDRESS:
 LOT 3, BLOCK "A"
 HIGHWAY 973
 MANOR, TX 78653

SHEET TITLE:

LIGHTING PLAN

SHEET NUMBER:

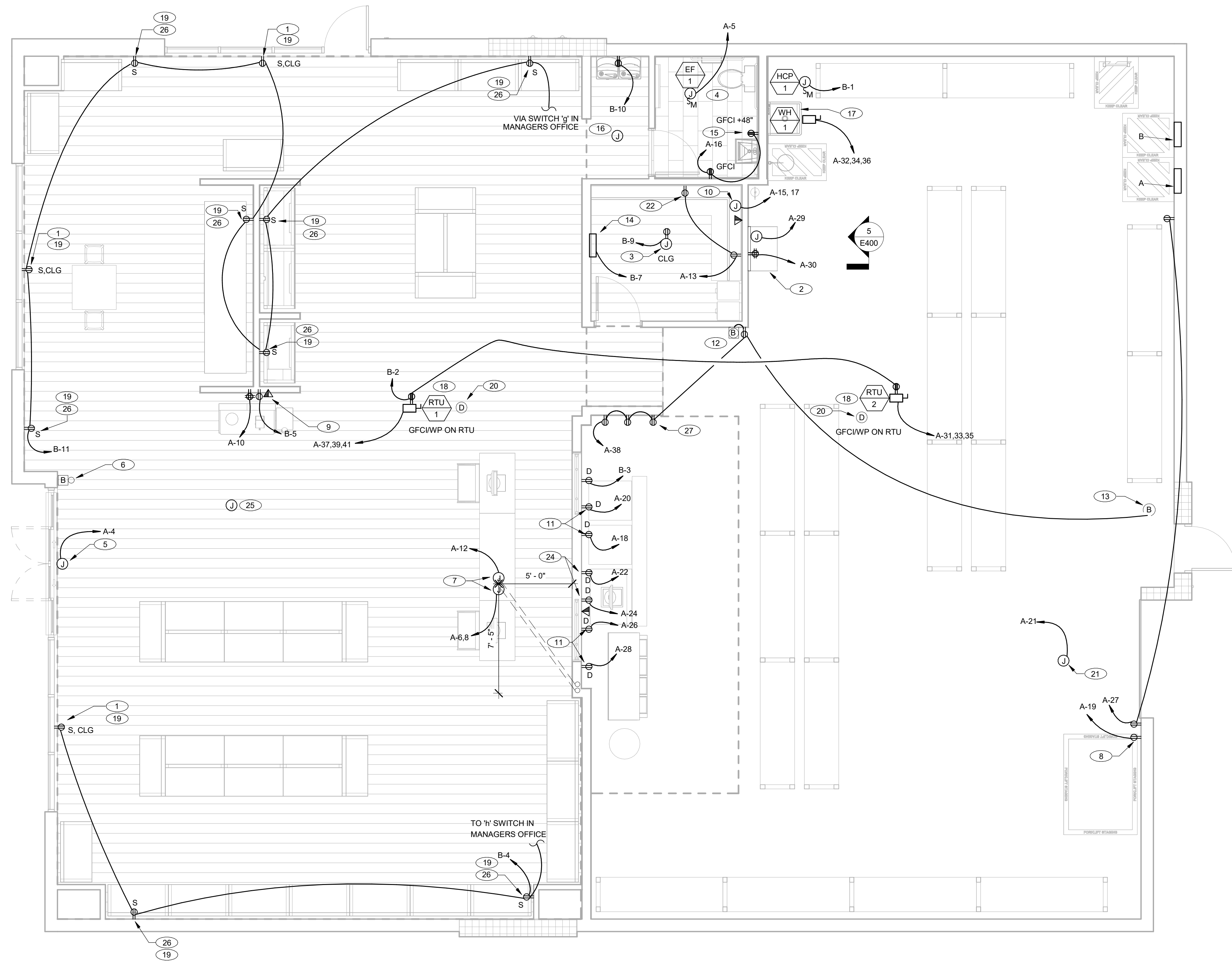
E200



1 LIGHTING PLAN
 1/4" = 1'-0"

SHEET NOTES

- 1 E.C. TO PROVIDE DUPLEX RECEPTACLE MOUNTED IN SOFFIT ABOVE WINDOW FOR SHOW WINDOW REQUIREMENTS PER NEC 210.62 FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN AND INSTALLATION.
- 2 E.C. TO INSTALL TT/B / PHONE BOARD FOR CONNECTION TO LOW VOLTAGE EQUIPMENT AND DATA REQUIREMENTS. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN AND INSTALLATION. INSTALL PER MANUFACTURER RECOMMENDATIONS. SEE ARCHITECTURAL DETAIL A5 ON SHEET A300 FOR ADDITIONAL INFORMATION.
- 3 E.C. TO PROVIDE J-BOX IN OFFICE FOR INSTALLATION OF CEILING MOUNTED DUPLEX OUTLET. VERIFY EXACT LOCATION WITH G.C. PRIOR TO ROUGH-IN AND INSTALLATION.
- 4 BATHROOM EXHAUST FAN TO BE AUTOMATICALLY CONTROLLED WITH AREA OCCUPANCY LIGHTING SENSOR. COORDINATE INSTALLATION WITH M.C.
- 5 E.C. TO PROVIDE J-BOX AT 10'-0" A.F.F. OR AS DIRECTED BY G.C. FOR CONNECTION TO AUTOMATIC DOOR CONTROL. VERIFY CONNECTION REQUIREMENTS AND INSTALL PER MANUFACTURER SPECIFICATIONS.
- 6 E.C. TO PROVIDE LOW VOLTAGE CONDUIT FROM AUTOMATIC DOOR SENSOR TO OFFICE FOR FUNCTION OF DOOR CONTROL COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER SPECIFICATIONS.
- 7 THE LANDLORD SHALL INSTALL PULL BOXES RECESSED INTO THE SLAB IN THE SALES AREA. THE CONDUITS AND FEEDS FOR THE PULL BOXES SHALL EXTEND FROM A WALL AND UNDER THE SLAB. PULL BOX "A" SHALL RECEIVE TWO DEDICATED, 20-AMP, SINGLE PHASE, 120 VOLT CIRCUITS AND ONE STANDARD SINGLE PHASE, 120 VOLT CIRCUIT. PULL BOX "B" SHALL RECEIVE (2) 1-1/4 INCH CONDUITS WITH PULL WIRES FROM THE PULL BOX AND TERMINATE AT THE SATELLITE BOARD.
- 8 E.C. TO PROVIDE DUPLEX AT +48" A.F.F. OR AS DIRECTED BY FOR CONNECTION TO FORKLIFT CHARGING STATION.
- 9 E.C. TO INSTALL DUPLEX AND DATA OUTLET AT +83" A.F.F. TO TOP OF RECESSED ELECTRICAL BOX. REFER TO NOTE #2 AND #3. DETAIL #6 ON SHEET A300 FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATIONS WITH G.C. PRIOR TO ROUGH-IN AND INSTALLATION.
- 10 E.C. TO PROVIDE J-BOX AS DIRECTED BY G.C. ABOVE COUNTER FOR CONNECTION TO (2) OFFICE RACEWAYS. RACEWAY TO BE INSTALLED BY G.C. / E.C. VERIFY SCOPE OF WORK PRIOR TO BID.
- 11 RECEPTACLES AT AREA INDICATED ON PLANS TO BE 'D' TYPE OUTLET MOUNTED AT +40" A.F.F. EACH RECEPTACLE SHALL BE DEDICATED 20A, 1P, 120V CIRCUIT WITH GRAY DUPLEX RECEPTACLE AND COVER PLATE PER ARCHITECT SPECIFICATIONS.
- 12 INSTALL OPTEX CHIME SYSTEM RECEIVER UNIT. BUZZER AND REQUIRED STANDARD OUTLET ON STAGING WALL AT +108" PROVIDE CONNECTION TO EXTERIOR WEATHERPROOF BUZZER BUTTON AS SHOWN. CHIME RECEIVER SHALL BE OPTEX MODEL #RCTD-20U. BUZZER SHALL BE EDWARDS COMPANY MODEL #725.
- 13 EXTERIOR WEATHERPROOF BUZZER BUTTON TO BE INSTALLED ON THE EXTERIOR WALL BETWEEN THE OVERHEAD DOOR AND THE ADJACENT PERSONNEL DOOR AT +48" A.F.F. AS SHOWN. VERIFY CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN AND INSTALLATION. BUZZER BUTTON SHALL BE EDWARDS COMPANY MODEL #1786-B.
- 14 E.C. TO COORDINATE WITH AUTOMATIC DOOR MANUFACTURER. MANUFACTURER SPECIFICATIONS FOR INSTALLATION OF AUTOMATIC DOOR CONTROL PANEL. VERIFY CONNECTION AND POWER REQUIREMENTS PRIOR TO ROUGH-IN AND INSTALLATION.
- 15 E.C. TO PROVIDE GFCI PROTECTED OUTLETS FOR CONNECTION TO AUTOMATIC FAUCETS BENEATH LAVATORY. COORDINATE WITH P.C. VERIFY CONNECTION AND POWER REQUIREMENTS PRIOR TO ROUGH-IN AND INSTALLATION.
- 16 E.C. TO PROVIDE LUTRON #HJS-O-FM HUB WITH INTEGRATED TIMECLOCK ABOVE CEILING AS REQUIRED TO CONTROL LIGHTING AND SIGNAGE. SEE LIGHTING CONTROL PANEL DIAGRAM ON SHEET E400 FOR ADDITIONAL INFORMATION.
- 17 E.C. TO PROVIDE J-BOX AND 30A, 3P, 208V DISCONNECT SWITCH WITH 4#10 WIRE IN 3/4" CONDUIT TO ELECTRIC WATER HEATER. COORDINATE CONNECTION REQUIREMENTS PER MANUFACTURER RECOMMENDATIONS. VERIFY MOUNTING HEIGHT OF J-BOX WITH ARCHITECT PRIOR TO ROUGH-IN AND INSTALLATION.
- 18 E.C. TO COORDINATE PER MECHANICAL PLANS FOR ALL WORK REQUIRED FOR RTU-1 & RTU-2. VERIFY SCOPE OF WORK PRIOR TO ANY BID. PROVIDE NEW WEATHERPROOF GFCI PROTECTED RECEPTACLE.
- 19 E.C. TO INSTALL 'S' TYPE OUTLETS AT LOCATION AND HEIGHTS NOTED. OUTLETS SHALL BE WIRED TO ASSOCIATED LUTRON #RMJS-20R-DV-B RECEPTACLE CONTROL RELAY MODULE AND CONTROLLED VIA MAIN SWITCHBANK LOCATED INSIDE OFFICE AND BEHIND DOOR. OUTLETS SHALL BE WHITE DUPLEX RECEPTACLE AND COVER PLATE. SHALL BE INSTALLED HORIZONTALLY AND SHALL BE PAINTED TO MATCH SURROUNDING WALL. INSTALL SAME TYPE OF OUTLET IN HEADER OF EACH RUN OF STOREFRONT. ALL OUTLETS SHALL BE MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
- 20 E.C. TO PROVIDE NEW DUCT SMOKE DETECTOR FOR RTU-1 & RTU-2. E.C. TO COORDINATE WITH M.C. PRIOR TO BID AND ROUGH-IN. PROVIDE REMOTE INDICATOR IN OFFICE 104 WITH LABEL. UPON ACTIVATION OF SMOKE DETECTOR UNIT SHALL SHUT DOWN AND HORN STROBE IN MANAGERS OFFICE SHALL ACTIVATE. NO TIE INTO FIRE ALARM SYSTEM AS FA SYSTEM NOT REQUIRED. CONTRACTOR SHALL HAVE FIRE DEPT TEST SD'S OR HAVE FIRE DEPT PRESENT TO WITNESS. TEST PRIOR TO CLOSE OUT OF BUILDING. CONTRACTOR SHALL COORDINATE SD TESTING WITH FIRE DEPARTMENT AS REQUIRED.
- 21 E.C. TO PROVIDE CONNECTION FOR MOTORIZED DOOR. COORDINATE REQUIREMENTS WITH DOOR VENDOR AND VERIFY ALL CONNECTION AND DISCONNECTING REQUIREMENTS PRIOR TO INSTALLATION. VERIFY SCOPE OF WORK PRIOR TO BID.
- 22 UNDER COUNTER TYPICAL OF 2.
- 23 NOT IN USE.
- 24 BLUE HUBBELL 4-PLEX SURGE SUPPRESSION RECEPTACLE.
- 25 J-BOX WITH CONDUIT AND PULL WIRES INSTALLED AT ROOF STRUCTURE.
- 26 MOUNT OUTLETS AT 86" A.F.F.
- 27 THE LANDLORD SHALL INSTALL A 4'X8'X3/4" INCH PLYWOOD BOARD TO SUPPORT SHERWIN-WILLIAMS PHONE, COMPUTER AND SATELLITE EQUIPMENT. SEE ELEVATION FOR INSTALLATION INSTRUCTIONS AND SPECIAL ELECTRICAL REQUIREMENTS. PLYWOOD SHALL BE MINIMUM APA STRUCTURAL I RATED SHEATHING EXTERIOR C-C.

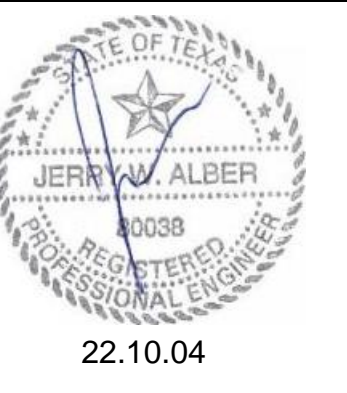


1 POWER PLAN
1/4" = 1'-0"

LINGLE DESIGN GROUP, INC
 158 WEST MAIN STREET
 LENA, IL 61048
 815.369.9155
 1764 BLAKE ST
 DENVER, CO 80202
 303.974.5875
 WWW.LINGLEDESIGN.COM

JCAA
 4100 Wadsworth Blvd.
 Wheat Ridge, CO 80033
 p. 303.985.3280
 TX F-14436

ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE LINGLE DESIGN GROUP, INC. THEY MAY NOT BE REPRODUCED, COPIED, REUSED, OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.



PROJECT #:
22.102
 DRAWN BY: CO CHECKED BY: JCAA

PERMIT SET - 08/12/2022

SHERWIN WILLIAMS

STORE #
XXXX
 ADDRESS:
 LOT 3, BLOCK "A"
 HIGHWAY 973
 MANOR, TX 78653
 SHEET TITLE:

POWER PLAN
 SHEET NUMBER:
E300

MECHANICAL EQUIPMENT SCHEDULE

DESIGNATION	DESCRIPTION	LOAD				VOLTAGE	PHASE	DISCONNECT SIZE	FUSE SIZE	FEEDER SIZE	REMARKS
		HP	KVA	FLA	MCA						
RTU-1	ROOF TOP UNIT				46.0	208	3	60A3P	60.0A FRN-R	(3#4,1#8G,1-1/4"C)	
RTU-2	ROOF TOP UNIT				39.0	208	3	60A3P	50.0A FRN-R	(3#4,1#8G,1-1/4"C)	
EF-1	EXHAUST FAN			0.62		120	1	SMTO	---	(2#12,1#12G,3/4"C)	
WH-1	WATER HEATER		4.0			208	3	30A3P	15.0A FRN-R	(3#12,1#12G,3/4"C)	
HCP-1	HOR WATER RECIRCULATION PUMP		28W			120	1	SMTO	---	(2#12,1#12G,3/4"C)	

- REMARKS
 1. UNIT FURNISHED WITH INTEGRAL DISCONNECT.
 2. PROVIDE MOTOR RATED SWITCH WITH THERMAL OVERLOAD.

FAULT CURRENT CALCULATIONS

X1

$$F = \frac{1.73 \times 56 \times 13000}{1 \times 12844 \times 208} = 0.47$$

$$M = \frac{1}{1 + 0.38} = 0.72$$

$$ISC = 13000 \times 0.72 = 9420$$

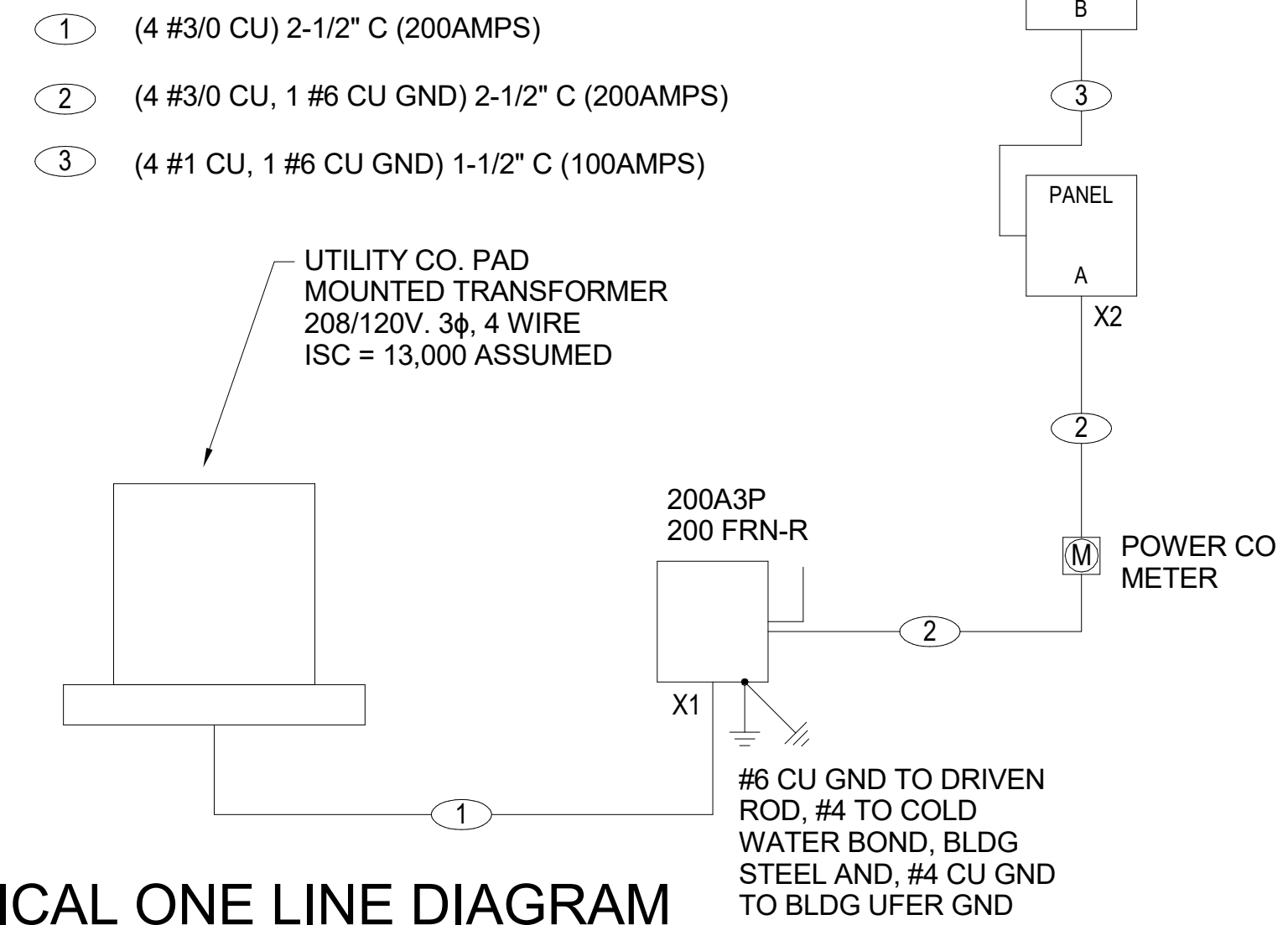
X2

$$F = \frac{1.73 \times 10 \times 9420}{1 \times 12844 \times 208} = 0.06$$

$$M = \frac{1}{1 + 0.06} = 0.94$$

$$ISC = 9420 \times 0.94 = 8879$$

FEEDER SCHEDULE



1 ELECTRICAL ONE LINE DIAGRAM

SCALE: N.T.S.

Branch Panel: A
 Location: [REDACTED]
 Mounting: Recessed
 Enclosure: Type 1

Volts: 120/208 Wye
 Phases: 3
 Wires: 4

Mains: 200 A
 A.I.C. Rating: 10,000
 MCB Rating:

Circuit #	Description	Rating	Poles	A	B	C	A	B	C	Poles	Rating	Description	Circuit #	
1	WHOLESALE AREA LIGHTING	20 A	1	504 VA			0 VA			1	20 A	Spare	2	
3	SALE AREA LIGHTING	20 A	1		751 VA			500 VA		1	20 A	AUTO DOOR	4	
5	WHOLESALE AREA LIGHTING	20 A	1			304 VA			250 VA	2	20 A	RECEPT. SALES POS FLOOR BOX	6	
7	SIDE EXTERIOR SIGN	20 A	1	1200 VA						---	---		8	
9	EXTERIOR BUILDING LIGHTING	20 A	1		528 VA			400 VA		1	20 A	RECEPT. SALES AREA TV & BAR	10	
11	FRONT EXTERIOR SIGN	20 A	1			1200...			500 VA	1	20 A	RECEPT. SALES POS FLOOR BOX	12	
13	OFFICE RECEPTACLE	20 A	1	180 VA			0 VA			1	20 A	Spare	14	
15	OFFICE RECEPTACLE	20 A	1		500 VA			360 VA		1	20 A	RECEPTACLES GFCI	16	
17	OFFICE RECEPTACLE	20 A	1			1200...			1200 VA	1	20 A	RECEPTACLES TINT AREA	18	
19	FORK LIFT RECEPTACLE	20 A	1	180 VA			1200...			1	20 A	RECEPTACLES TINT AREA	20	
21	MV	20 A	1		500 VA			1200 VA		1	20 A	RECEPTACLES TINT AREA	22	
23	WHOLESALE AREA LIGHTING	20 A	1		576 VA			180 VA		1	20 A	RECEPTACLES TINT AREA	24	
25	SALE AREA LIGHTING	20 A	1	717 VA			1200...			1	20 A	RECEPTACLES TINT AREA	26	
27	RECEPTACLES TINT AREA	20 A	1		360 VA			1200 VA		1	20 A	RECEPTACLES TINT AREA	28	
29	DATA RACK	20 A	1		500 VA			400 VA		1	20 A	RECEPTACLES TINT AREA	30	
31	RTU-2	60 A	3	4560 VA			1333...			3	20 A	WATER HEATER	32	
33	--	--	--		4560 VA			1333 VA		---	---		34	
35	--	--	--			4560...			1333 VA	---	---		36	
37	RTU-1	50 A	3	4200 VA			720 VA			1	20 A	RECEPTACLES TINT AREA	38	
39	--	--	--		4200 VA			0 VA		1	20 A	Spare	40	
41	--	--	--			4200...			0 VA	1	20 A	Spare	42	
				Total Load:	16187...	16356...	16361...							
				Total Amps:	135 A	137 A	137 A							

Load Classification	Connected Loads	Demand Factor	Estimated Demand	Panel Totals
Lighting	5091 VA	125.00%	6364 VA	
Receptacle	4780 VA	100.00%	4780 VA	Total Conn. Load: 48905 VA
Motor	27780 VA	112.31%	31200 VA	Total Est. Demand: 53582 VA
Electric Heating Equipment	3999 VA	100.00%	3999 VA	Total Est. Current: 149 A
Kitchen Equipment				
Other	6000 VA	6000 VA	6000 VA	

Branch Panel: B
 Location: [REDACTED]
 Mounting: Recessed
 Enclosure: Type 1

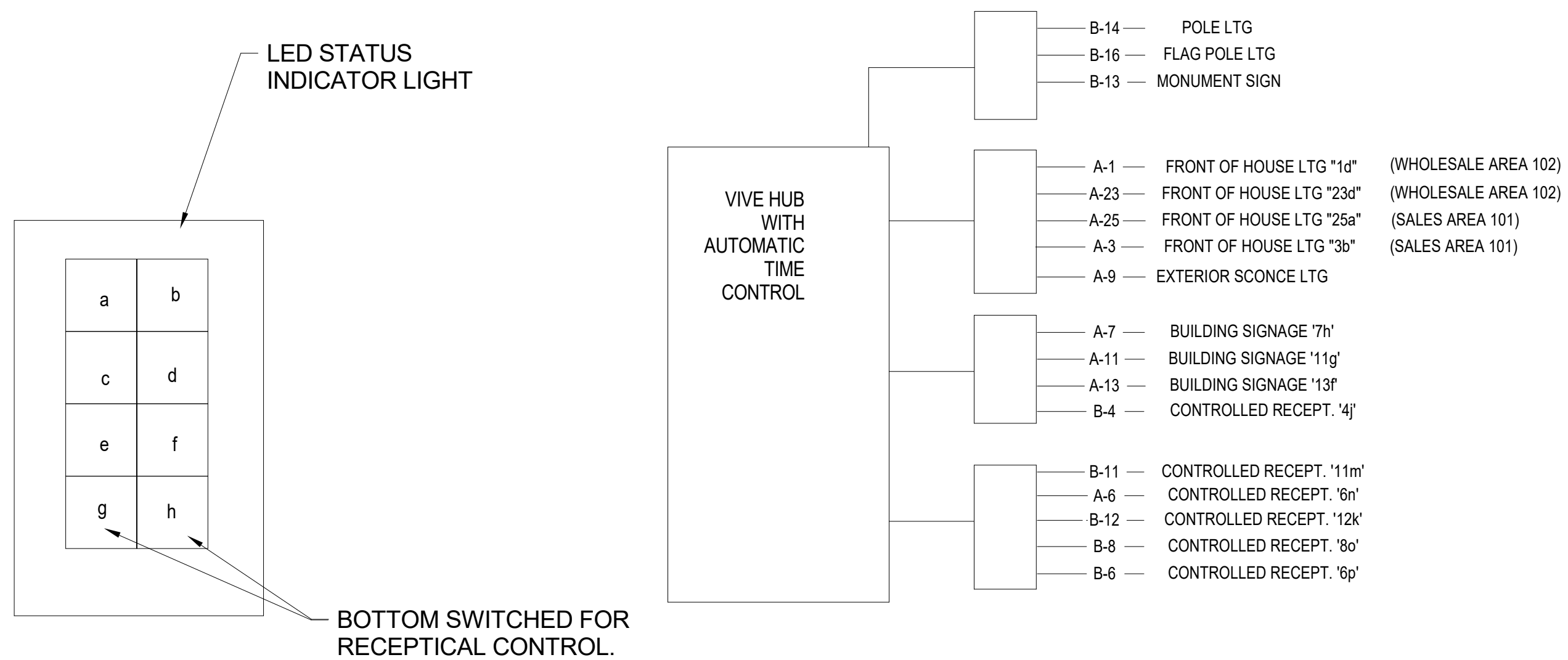
Volts: 120/208 Wye
 Phases: 3
 Wires: 4

Mains: 200 A
 A.I.C. Rating: 10,000
 MCB Rating:

Circuit #	Description	Rating	Poles	A	B	C	A	B	C	Poles	Rating	Description	Circuit #	
1	CIRC PUMP HCP	20 A	1	500 VA			1200...			1	20 A	ROOFTOP RECEPTACLES	2	
3	TINT AREA RECEPTACLE	20 A	1		1200 VA			540 VA		1	20 A	SALES AREA RECEPTACLES	4	
5	TV RECEPTACLE	20 A	1			180 VA			0 VA	1	20 A	Spare	6	
7	AUTO DOOR PANEL	20 A	1	1000 VA						1	20 A	Spare	8	
9	OFFICE RECEPTACLE	20 A	1		500 VA			0 VA		1	20 A	Spare	10	
11	SHOW WINDOW RECEPTACLE	20 A	1			1440...			0 VA	1	20 A	Spare	12	
13	MONUMENT SIGN	20 A	1	1200 VA			1200...			1	20 A	SITE LIGHTING	14	
15	Spare	20 A	1		0 VA			200 VA		1	20 A	FLAG POLE UPLIGHTS	16	
17	Spare	20 A	1			0 VA			0 VA	1	20 A	Spare	18	
19	Spare	20 A	1		0 VA				0 VA	1	20 A	Spare	20	
21	Spare	20 A	1		0 VA				0 VA	1	20 A	Spare	22	
23	Spare	20 A	1		0 VA				0 VA	1	20 A	Spare	24	
25	Spare	20 A	1		0 VA				0 VA	1	20 A	Spare	26	
27	Spare	20 A	1		0 VA				0 VA	1	20 A	Spare	28	
29	Spare	20 A	1		0 VA				0 VA	1	20 A	Spare	30	
31	Spare	20 A	1		0 VA				0 VA	1	20 A	Spare	32	
33	Spare	20 A	1		0 VA				0 VA	1	20 A	Spare	34	
35	Spare	20 A	1		0 VA				0 VA	1	20 A	Spare	36	
37	Spare	20 A	1		0 VA				0 VA	1	20 A	Spare	38	
39	Spare	20 A	1		0 VA				0 VA	1	20 A	Spare	40	
41	Spare	20 A	1		0 VA				0 VA	1	20 A	Spare	42	
				Total Load:	5100 VA	2440 VA	1620...							
				Total Amps:	44 A	21 A	14 A							

Load Classification	Connected Loads	Demand Factor	Estimated Demand	Panel Totals
Lighting				
Receptacle	3860 VA	100.00%	3860 VA	Total Conn. Load: 8160 VA
Motor	500 VA	125.00%	625 VA	Total Est. Demand: 8285 VA
Electric Heating Equipment				Total Est. Current: 23 A
Kitchen Equipment				
Other	1200 VA	1200 VA	1200 VA	

LED STATUS INDICATOR LIGHT



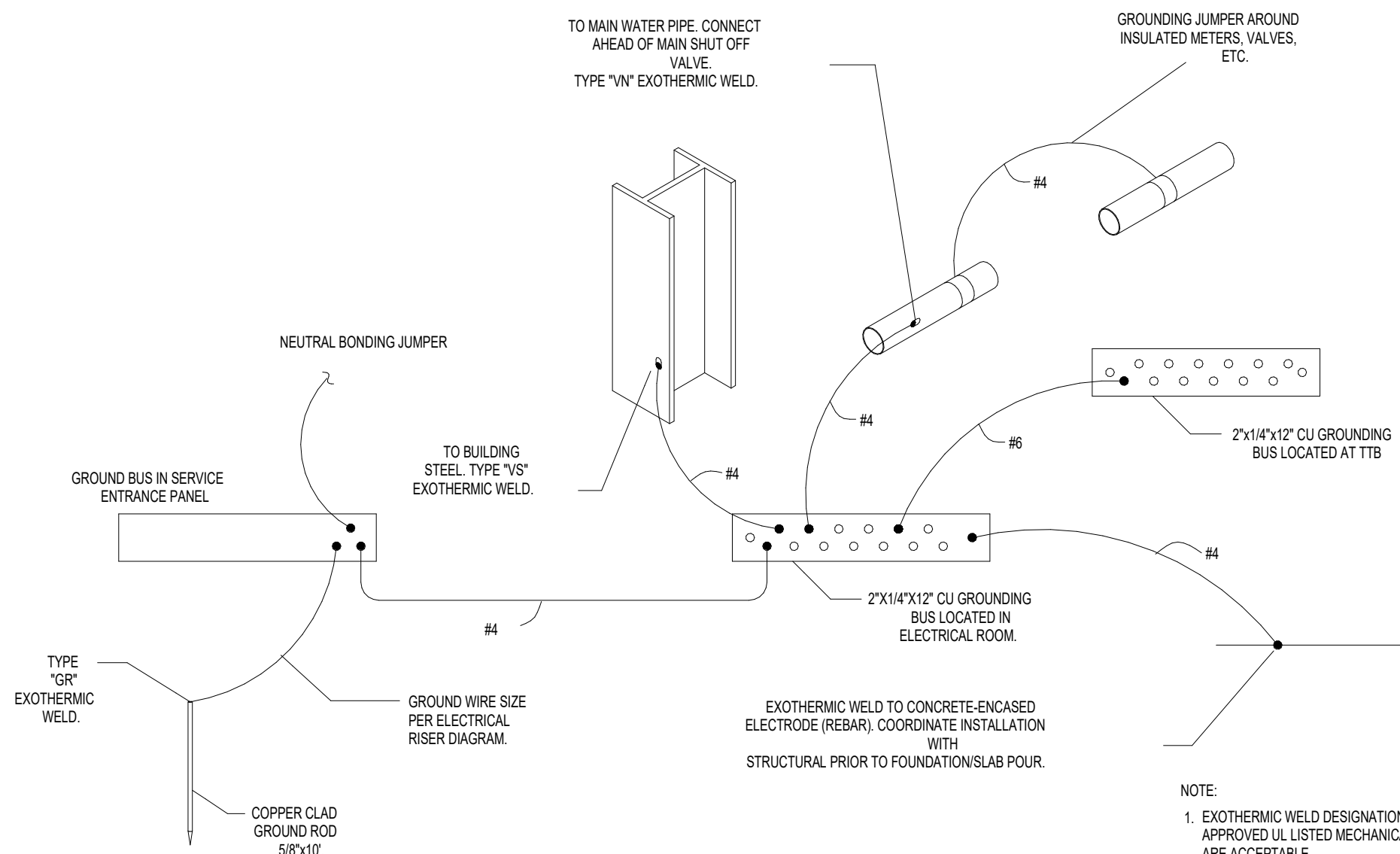
BOTTOM SWITCHED FOR RECEPTICAL CONTROL.

4 LIGHTING CONTROL HUB DIAGRAM

SCALE: N.T.S.

3 SWITCHBANK DETAIL

SCALE: N.T.S.



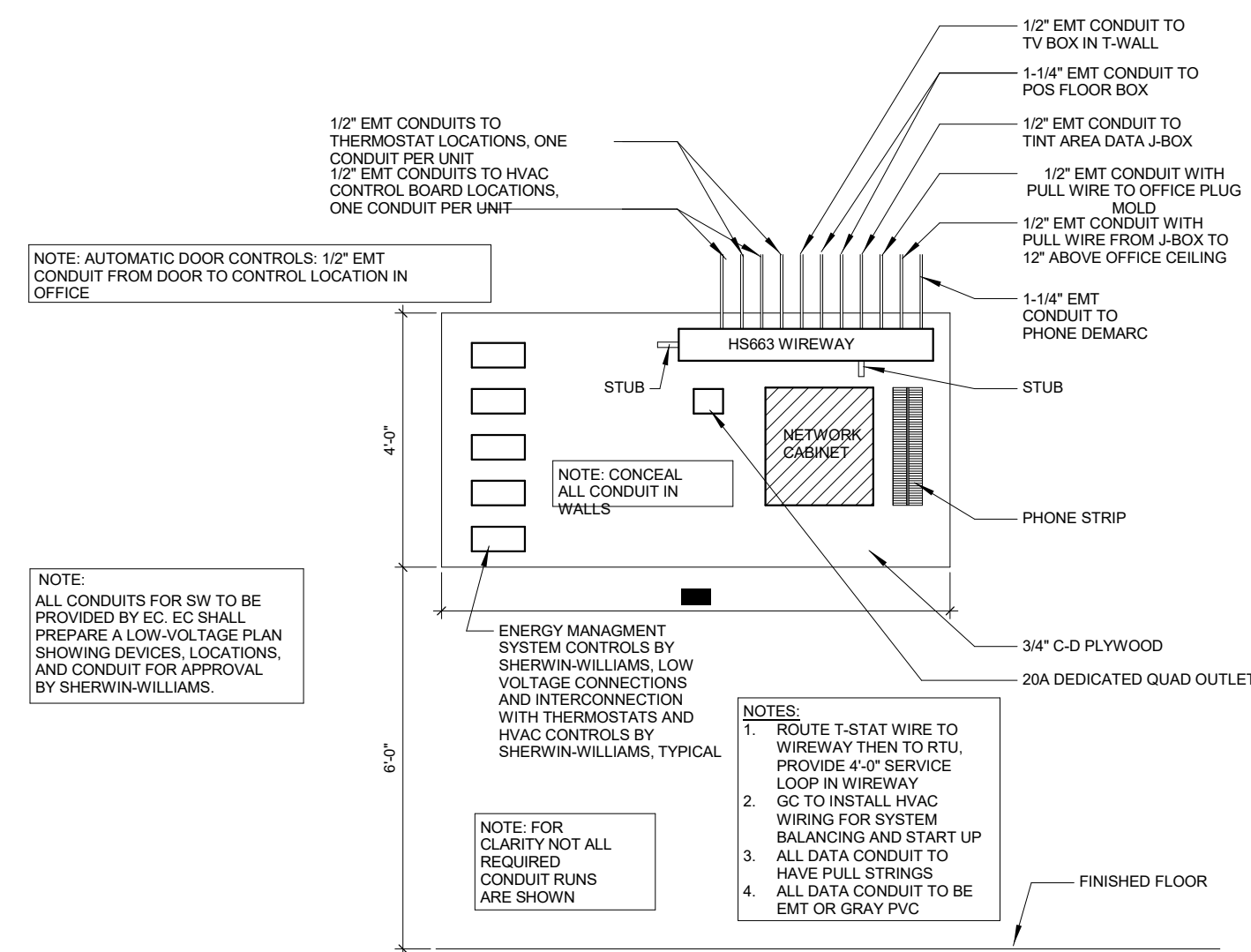
- NOTE:
 1. EXOTHERMIC WELD DESIGNATION INDICATED ABOVE ARE ERICO "CADWELD" APPROVED UL LISTED MECHANICAL AND COMPRESSION GROUNDING DEVICES ARE ACCEPTABLE.
 2. ALL GROUNDING BUS CONNECTIONS TO BE MADE WITH 2-HOLE COMPRESSION TYPE CONNECTORS. BUS SHALL BE INSULATED FROM ITS SUPPORT AND SHALL MAINTAIN 1/2" SPACING FROM WALL.
 3. ALL WIRING SHALL BE TYPE THINWITN.
 4. MAIN GROUP RODS ARE TO BE LOCATED AT SERVICE ENTRANCE WITH SIZE AND QUANTITY PER SPECIFICATIONS.

2 SERVICE ENTRANCE GROUND DETAIL

SCALE: N.T.S.

5 DATA SWITCH BOARD

SCALE: 3/8" = 1'-0"



LINGLE DESIGN GROUP, INC.
 158 WEST MAIN STREET
 LENA, IL 61048
 815.369.9155
 1764 BLAKE ST
 DENVER, CO 80202
 303.974.5875
 WWW.LINGLEDESIGN.COM

JCAA
 4100 Wadsworth Blvd.
 Wheat Ridge, CO 80033
 p. 303.985.3280
 TX F-14436

© ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE LINGLE DESIGN GROUP, INC. THEY MAY NOT BE REVISED, COPIED, REPRODUCED, OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.

JERRY W. ALBER
 ARCHITECT
 22.10.04

PROJECT #:
 22.102
 DRAWN BY: CO CHECKED BY: JCAA

PERMIT SET - 08/12/2022

SHERWIN WILLIAMS

STORE #:
 XXXX
 ADDRESS:
 LOT 3, BLOCK "A"
 HIGHWAY 973
 MANOR, TX 78653

SHEET TITLE:
 ELECTRICAL ONE LINE DIAGRAM

SHEET NUMBER:
 E400



COMcheck Software Version 4.1.5.5
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Sherwin Williams
Project Type: New Construction

Construction Site: LOT 3, BLOCK "A" HIGHWAY 973 MANOR, TX 78653
Owner/Agent:
Designer/Contractor: JCA Consulting Engineer LLC 4100 Wadsworth Blvd Wheat Ridge, CO 80033

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Enhanced Interior Lighting Controls, 1.0 credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-Paint Store (Retail)	4600	1.26	5796
Total Allowed Watts =			5796

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Paint Store (Retail)				
LED 1: A: LED Troffer: Other:	1	2	44	88
LED 6: B: LED Strip Light: Other:	1	9	23	207
LED 3: C: LED Down Light: Other:	1	5	33	165
LED 4: D: LED Strip Light: Other:	1	39	72	2808
LED 5: U: Under Counter Light: Other:	1	8	11	88
Total Proposed Watts =				3356

Interior Lighting PASSES: Design 42% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Craig Olson
Name - Title Signature Date 8/9/2022

Project Title: Sherwin Williams Report date: 08/10/22
Data filename: P:\JCAA 2022\22.102 - Sherwin Williams Manor, Texas\DOCUMENTS\COMCHECK\COMCHECK - ELECTRICAL.cck Page 1 of 7

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1 [EL15] ¹	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1 [EL18] ¹	Occupancy sensors installed in required spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1, C405.2.2, 3 [EL23] ²	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.2, 1 [EL22] ²	Automatic controls to shut off all building lighting installed in all buildings.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.3 [EL16] ²	Daylight zones provided with individual controls that control the lights independent of general area lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.3, C405.2.3, 1, C405.2.3, 2 [EL20] ¹	Primary sidelighted areas are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.3, C405.2.3, 1, C405.2.3, 3 [EL21] ¹	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.4 [EL4] ¹	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.4 [EL8] ¹	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.5 [EL25] ^{1,2}	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting ≥ 30%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.3 [EL6] ¹	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Sherwin Williams Report date: 08/04/22
Data filename: P:\JCAA 2022\22.102 - Sherwin Williams Manor, Texas\DOCUMENTS\COMCHECK\COMCHECK - ELECTRICAL.cck Page 4 of 7



COMcheck Software Version 4.1.5.5
Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Sherwin Williams
Project Type: New Construction
Exterior Lighting Zone: 2 (Neighborhood business district (LZ2))

Construction Site: LOT 3, BLOCK "A" HIGHWAY 973 MANOR, TX 78653
Owner/Agent:
Designer/Contractor: JCA Consulting Engineer LLC 4100 Wadsworth Blvd Wheat Ridge, CO 80033

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Parking area	18000 ft ²	0.06	Yes	1080
Main entry	9 ft of door	20	Yes	180
Total Tradable Watts (a) =				1260
Total Allowed Watts (b) =				1260
Total Allowed Supplemental Watts (b) =				600

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Parking area (18000 ft ²): Tradable Wattage				
LED 1: AA: Pole Light: Other:	1	6	100	600
LED 2: R: Exterior Sconce: Other:	1	6	28	168
LED 3: T: Exterior Sconce: Other:	1	1	60	60
Pedestrian and vehicular entrances and exits (9 ft of door width): Tradable Wattage				
LED 2: R: Exterior Sconce: Other:	1	11	28	308
Total Tradable Proposed Watts =				1136

Exterior Lighting PASSES: Design 39% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Craig Olson
Name - Title Signature Date 8/9/2022

Project Title: Sherwin Williams Report date: 08/10/22
Data filename: P:\JCAA 2022\22.102 - Sherwin Williams Manor, Texas\DOCUMENTS\COMCHECK\COMCHECK - ELECTRICAL.cck Page 2 of 7

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Sherwin Williams Report date: 08/04/22
Data filename: P:\JCAA 2022\22.102 - Sherwin Williams Manor, Texas\DOCUMENTS\COMCHECK\COMCHECK - ELECTRICAL.cck Page 5 of 7



COMcheck Software Version 4.1.5.5
Inspection Checklist

Energy Code: 2015 IECC

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C103.2 [PR8] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C406 [PR9] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Sherwin Williams Report date: 08/04/22
Data filename: P:\JCAA 2022\22.102 - Sherwin Williams Manor, Texas\DOCUMENTS\COMCHECK\COMCHECK - ELECTRICAL.cck Page 3 of 7

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5, 2 [F117] ¹	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.4.1 [F118] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting fixture schedule for values.
C405.5.1 [F119] ¹	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Exterior Lighting fixture schedule for values.
C406.4 [F154] ¹	Enhanced digital lighting controls efficiency package: Interior lighting has following enhanced lighting controls in accordance with Section C405.2.2: Luminaires capable of continuous dimming and being addressed individually, <= 8 luminaires controlled in combination in a daylight zone, digital control system for fixtures, "Sequence of Operations" documentation, and functional testing per Section C408.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.5, 1 [F116] ¹	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.3 [F133] ¹	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Sherwin Williams Report date: 08/04/22
Data filename: P:\JCAA 2022\22.102 - Sherwin Williams Manor, Texas\DOCUMENTS\COMCHECK\COMCHECK - ELECTRICAL.cck Page 6 of 7

LINGLE DESIGN GROUP, INC
15B WEST MAIN STREET
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5875
WWW.LINGLEDESIGN.COM

JCA
ENGINEER
LIFE
JCAA
4100 Wadsworth Blvd.
Wheat Ridge, CO 80033
p. 303.985.3280
TX F-14436

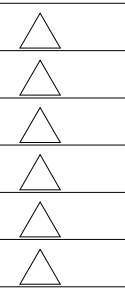
ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF LINGLE DESIGN GROUP, INC. THEY MAY NOT BE REPRODUCED, COPIED, REPRODUCED, OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.



22.10.04

PROJECT #:
22.102
DRAWN BY: CO CHECKED BY: JCAA

PERMIT SET - 08/12/2022



SHERWIN WILLIAMS

STORE #

XXXX

ADDRESS:

LOT 3, BLOCK "A"
HIGHWAY 973
MANOR, TX 78653

SHEET TITLE:

COMCHECK

SHEET NUMBER:

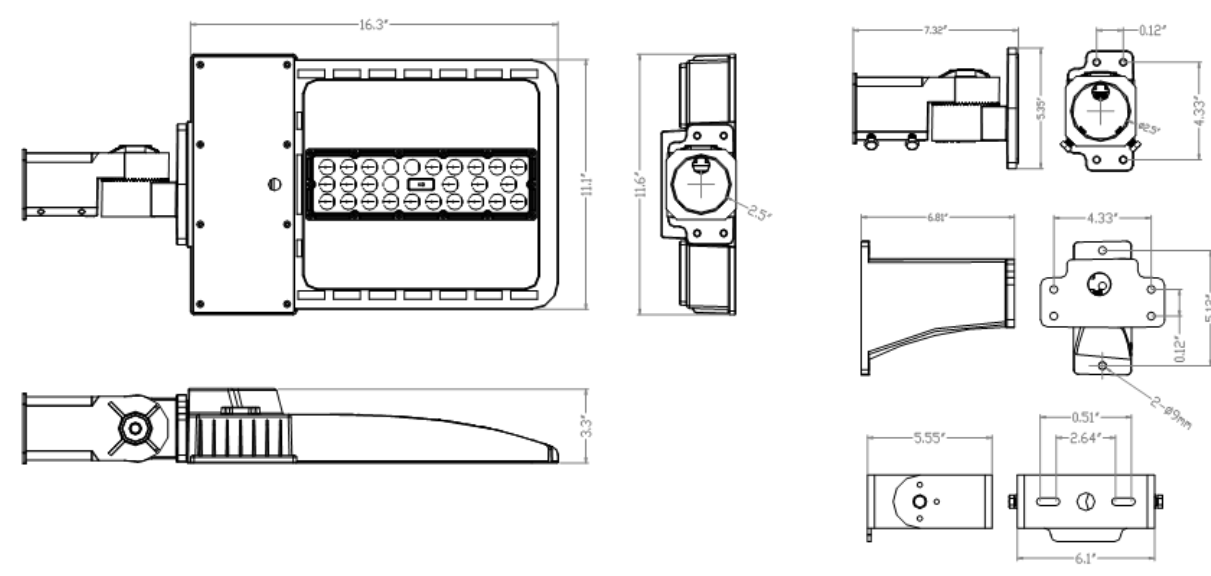
E500

TYPE 'AA'

LED Shoe Box Light

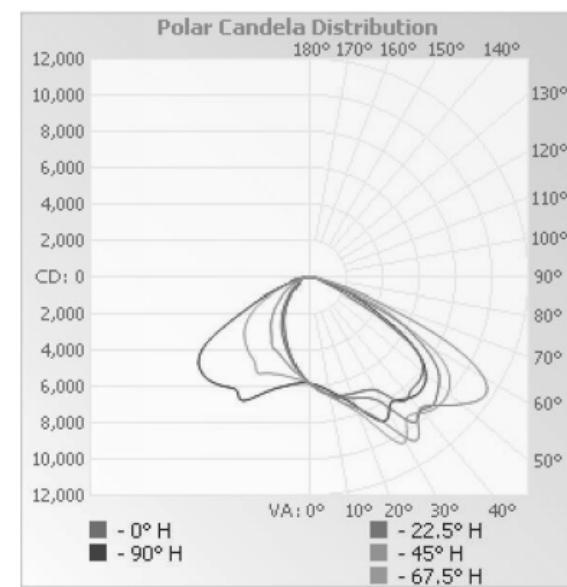
Technical Details and Photometric

Product Number	Power Consumption (W)	Dimensions (Inch)	Color Temperature (K)	System Luminous Flux(lm)	System Efficacy (Lm/W)
SB-80W A1XYZ	80	11.8"×12.6"×8.4"	3000K-6500K	10,400	130
SB-100W A1XYZ	100	11.8"×12.6"×8.4"	3000K-6500K	13,000	130



Photometric Data

Rated Power	80/100W
Input Voltage	100-277/200-480VAC
Frequency	50 / 60 Hz
Power Factor	> 0.9
Beam Angle	120°
CRI	≥ 80
Dimming Function	0 - 10 V
Operating Temperature	-30°C to 45°C
Beam Angle	Type III



RM 1205, 12/F TAI SANG BANK BLDG 130-132 DES VOEUX RD CENTRAL HK. www.jamesindustry.com

1/4 Page

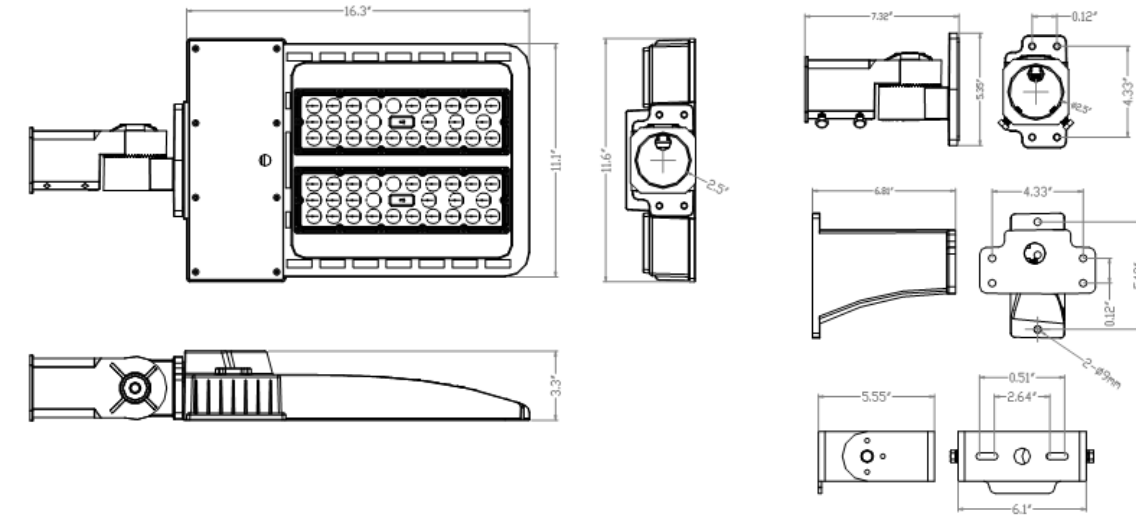
TYPE 'AA'

LED Shoe Box Light

Technical Details and Photometric

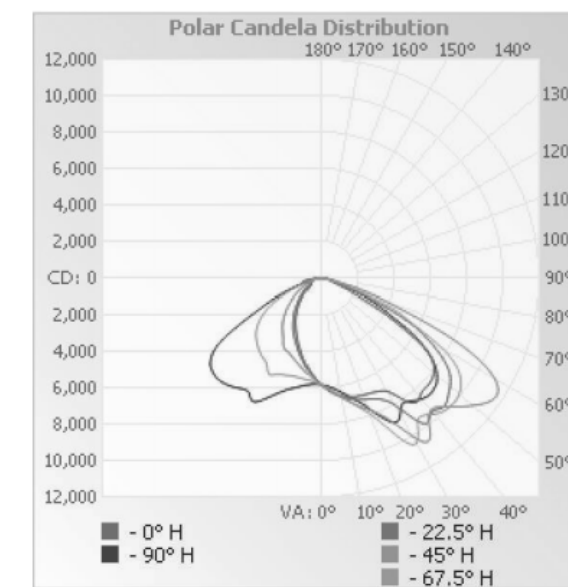
Product Number	Power Consumption (W)	Dimensions (Inch)	Color Temperature (K)	System Luminous Flux(lm)	System Efficacy (Lm/W)
SB-150W A2XYZ	150	23.9"×12.6"×8.4"	3000K-6500K	19,500	130
SB-200W A2XYZ	200	23.9"×12.6"×8.4"	3000K-6500K	26,000	130

Dimensions



Photometric Data

Rated Power	150/200W
Input Voltage	100-277/200-480VAC
Frequency	50 / 60 Hz
Power Factor	> 0.9
Beam Angle	120°
CRI	≥ 80
Dimming Function	0 - 10 V
Operating Temperature	-30°C to 45°C
Beam Angle	Type III



RM 1205, 12/F TAI SANG BANK BLDG 130-132 DES VOEUX RD CENTRAL HK. www.jamesindustry.com

2/4 Page

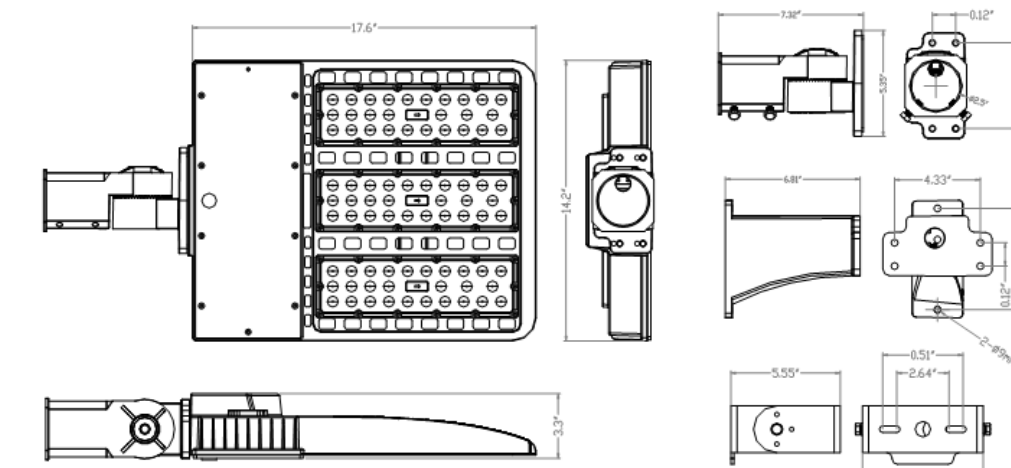
TYPE 'AA'

LED Shoe Box Light

Technical Details and Photometric

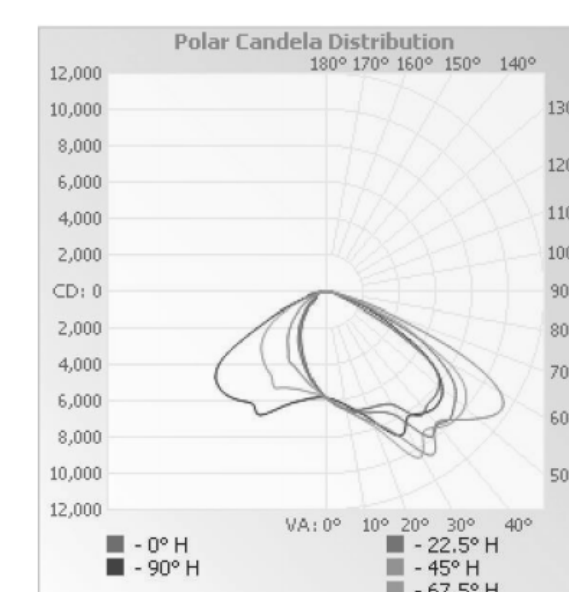
Product Number	Power Consumption (W)	Dimensions (Inch)	Color Temperature (K)	System Luminous Flux(lm)	System Efficacy (Lm/W)
SB-300W A3XYZ	300	29.4"×12.6"×8.6"	3000K-6500K	39,000	130

Dimensions



Photometric Data

Rated Power	300W
Input Voltage	100-277/200-480VAC
Frequency	50 / 60 Hz
Power Factor	> 0.9
Beam Angle	120°
CRI	≥ 80
Dimming Function	0 - 10 V
Operating Temperature	-30°C to 45°C
Beam Angle	Type III



RM 1205, 12/F TAI SANG BANK BLDG 130-132 DES VOEUX RD CENTRAL HK. www.jamesindustry.com

3/4 Page

TYPE 'AA'

LED Shoe Box Light

Technical Details and Photometric

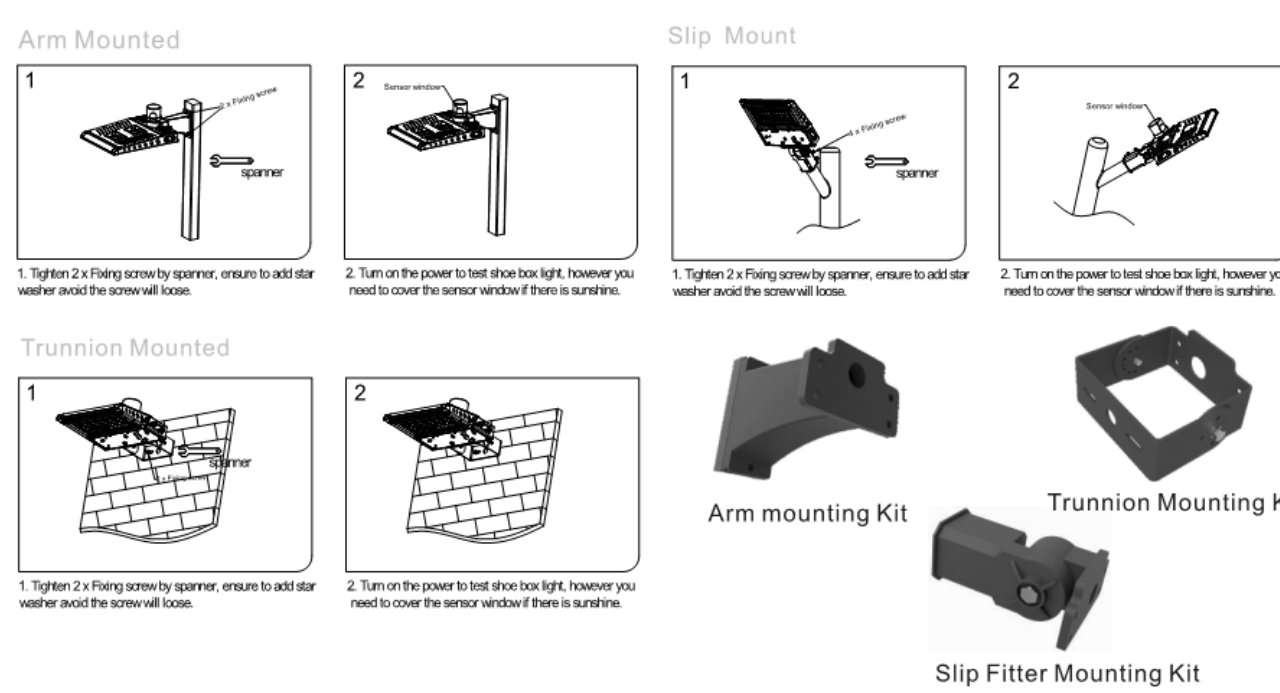
Applications



Ordering Guide

SB	80/100/120/150/200/300W	A1XYZ
Shoe Box light	Wattage	I=1,2,3 modules X=N (N=Non-dim or Dim) Y=27,30...65(CCT) Z=T3 (Type III beam angle)

Mounting Option



RM 1205, 12/F TAI SANG BANK BLDG 130-132 DES VOEUX RD CENTRAL HK. www.jamesindustry.com

4/4 Page

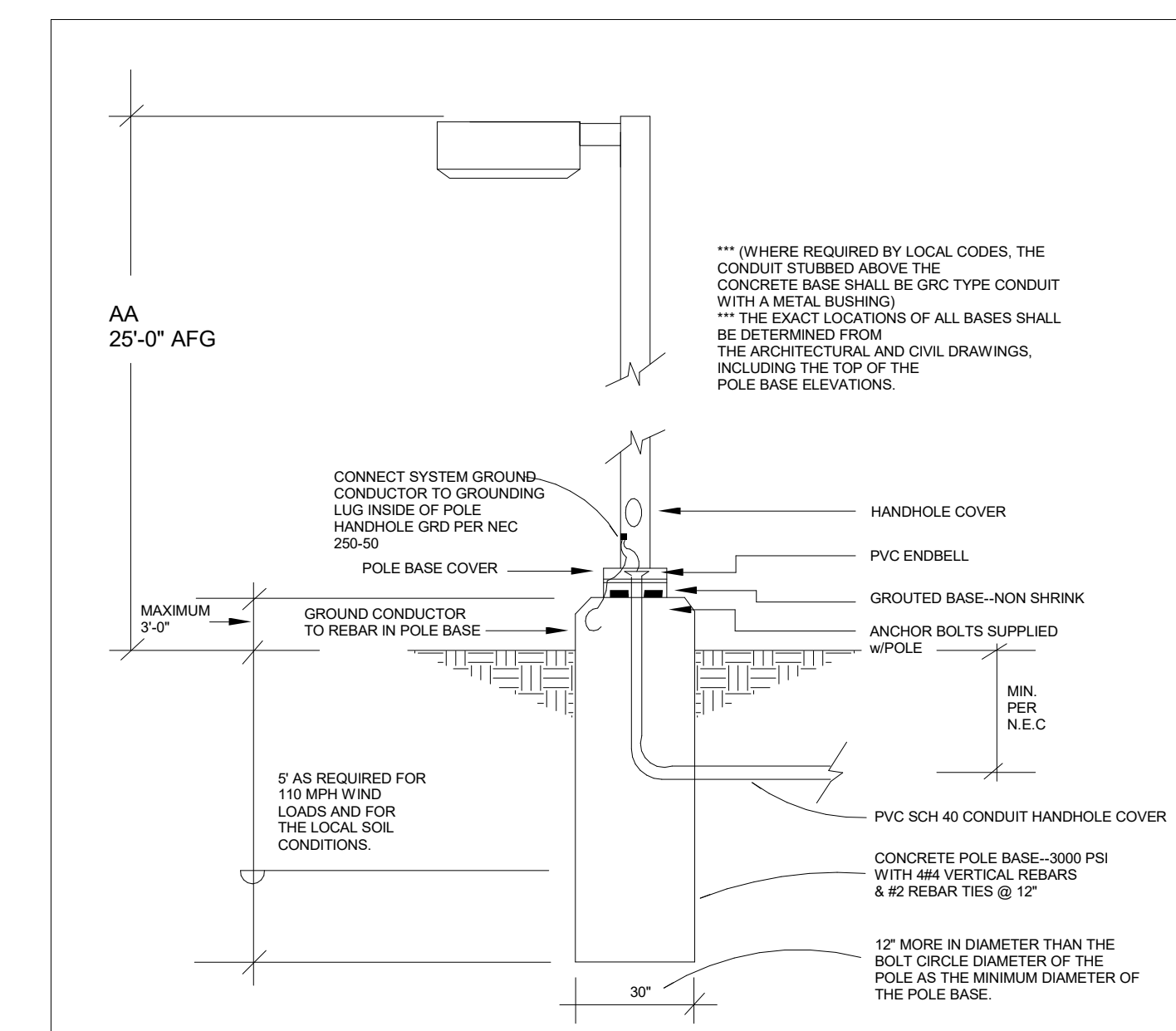
FIXTURE SCHEDULE

FIXT. TYPE	MANUFACTURER		VOLT AMPS	MOUNTING	LAMP TYPE	MTG HEIGHT	REMARKS	VOLT
AA	LSI	MRS-LED-15L-SIL-3-UNV-DIM-40-70CRI-BLK	111	POLE	LED	20'-0"	POLE MOUNTED SITE LIGHT. 25'-0" FLAT LENS	UNV
AAHS	LSI	MRS-LED-15L-SIL-3-UNV-DIM-40-70CRI-BLK-IH	111	POLE	LED	20'-0"	POLE MOUNTED SITE LIGHT. 25'-0" FLAT LENS TO BE USED WITH HOUSE SIDE SHIELD	UNV
AA1HS	LSI	MRS-LED-15L-SIL-FT-UNV-DIM-40-70CRI-BLK-IH	111	POLE	LED	20'-0"	POLE MOUNTED SITE LIGHT. 25'-0" FLAT LENS TO BE USED WITH HOUSE SIDE SHIELD	UNV
BB	COOPER	BOCA 696 - 4000 KELVINS	8	GROUND	LED		WET PROTECTED-GROUND MOUNTED UPLIGHT	120
R	EATON	9004-W2-RW-LED4080-S-S-CS-LA-UNV-WIS	28.5	SURFACE	LED	8'-8"	EXTERIOR UP/DOWN SCONCE (MOUNT 8'-8" AFF TO CENTER OF FIXTURE U.N.O)	UNV
T	HUBBELL	LN3	60	SURFACE	LED	10'-6"	MIDSIZED LED WALLPACK (WITH OPTIONAL PHOTO-EYE SWITCH)	UNV

NOTES:
1. LUMINAIRES TO BE ON/OFF VIA LUTRON CONTROLS. LUMINAIRE ON/OFF HOURS TO BE SET BY OWNER.

LUMINAIRE SCHEDULE

FIXT. TYPE	MANUFACTURER		FINISH	LAMP DATA	LAMP WATTS	MOUNTING METHOD	MTG HEIGHT	DESCRIPTION	VOLTS
A	CREE	ZR24-50L40K-10V		LED	44	SURFACE		2X4 LED TROFFER	120
A-E	CREE	ZR24-50L40K-10V		LED	44	SURFACE		2X4 LED TROFFER (CONNECT TO NON-SWITCHED EMERGENCY CIRCUIT)	120
B	CREE	LS4-80L-40K-10V		LED	23	SURFACE		48" LED STRIP LIGHT SUSPENDED FROM CEILING AT 12" A.F.F.	120
C	PRESCOLITE	LF6LED		LED	33	RECESS		6" RECESS DOWNLIGHT	120
C-E	PRESCOLITE	LF6LED		LED	33	RECESS		6" RECESS DOWNLIGHT CONNECT TO NON-SWITCHED EMERGENCY CIRCUIT	120
D	CREE	LS8-80L-40K-10V		LED	72	SURFACE		96" LED STRIP LIGHT SUSPENDED FROM CEILING AT 12" A.F.F. EXCEPT WHERE SPECIFIED OTHERWISE	120
D-E	CREE	LS8-80L-40K-10V		LED	72	SURFACE		96" LED STRIP LIGHT SUSPENDED FROM CEILING AT 12" A.F.F. CONNECT TO NON-SWITCHED EMERGENCY CIRCUIT	120
F	CASABLANCA	CAPISTRANO 54029 (BLADES: 99007 54)				SURFACE		CEILING FAN (MOUNT 9'-0" AFF - INSTALL "LIGHTING BOX" FOR STABILITY)	120
R	EATON	9004-W2-RW-LED4080-S-S-CS-L1-UNV-WIS		LED	28.5	SURFACE		EXTERIOR UP/ DOWN SCONCE (MOUNT 8'-8" AFF TO CENTER OF FIXTURE U.N.O.)	120
T	HUBBELL	LN3		LED	60	SURFACE		MIDSIZED LED WALLPACK (WITH OPTIONAL PHOTO-EYE SWITCH)	120
U	TECH LIGHTING	700UCF1985B-LED		LED	11	UNDER SHELF		UNDER SHELF LIGHTING (USE SPLICE BOX & JUMPER CONNECTORS)	120
X	JUNO	NXPCL3GWH-HO		LED		SURFACE		EXIT SIGN WITH EMERGENCY LIGHTING (EXIT SIGN / EMERGENCY COMBO FIXTURE WITH 90 MINUTE BATTERY BACKUP)	120
X1	LSI	EPM-SD2-WHT		A-19		SURFACE		120V EMERGENCY LIGHT FIXTURE REMOTE FROM EXIT SIGN/ EMERGENCY COMBO FIXTURE	120

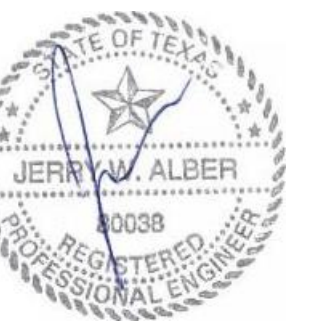


1 TYPICAL POLE BASE DETAIL
SCALE: N.T.S.

LINGLEDESIGNGROUP, INC
158 WEST MAIN STREET
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5875
WWW.LINGLEDESIGN.COM

JCAA
4100 Wadsworth Blvd.
Wheat Ridge, CO 80033
p. 303.985.3280
TX F-14436

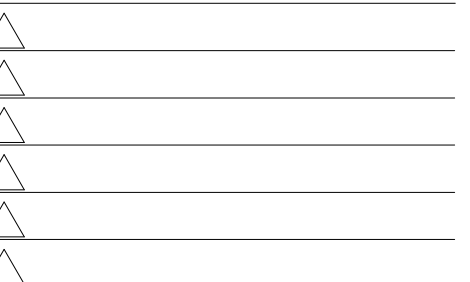
ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF THE ENGINEERING GROUP, INC. THEY MAY NOT BE REPRODUCED, COPIED, REUSED, OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.



22.10.04

PROJECT #:
22.102
DRAWN BY: CO CHECKED BY: JCAA

PERMIT SET - 08/12/2022



SHERWIN WILLIAMS

STORE #
XXXX

ADDRESS:
LOT 3, BLOCK "A"
HIGHWAY 973
MANOR, TX 78653

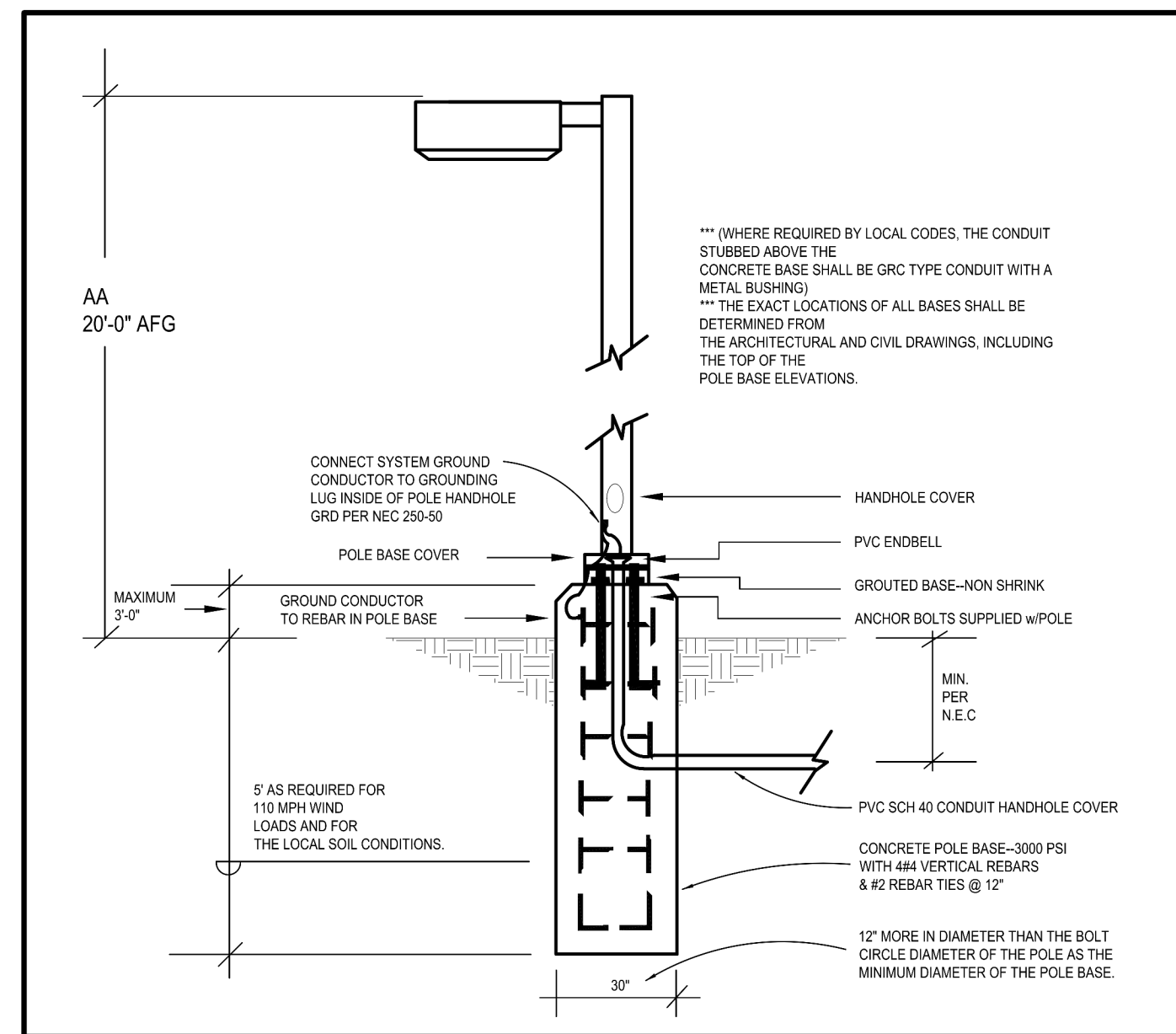
SHEET TITLE:

ELECTRICAL
DETAILS

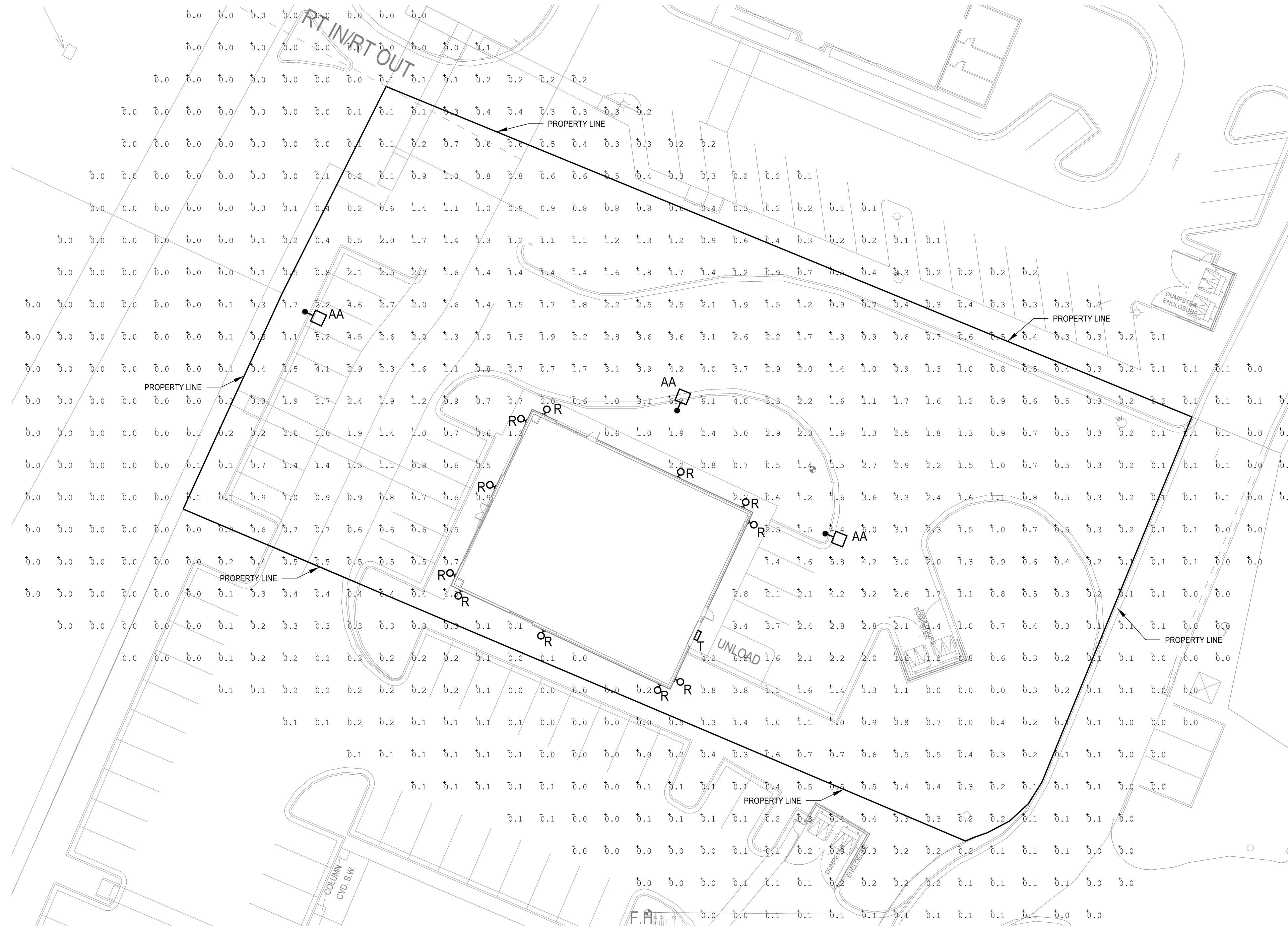
SHEET NUMBER:

E501

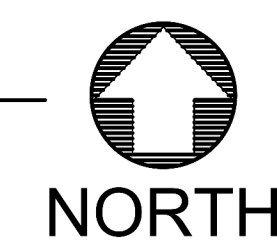
AA	LITHONIA LIGHTING	60C-1000-40K-R3-MVOLT-SPD-06-DOBXD		LED	216	POLE	20'-0"	POLE MOUNTED SITE LIGHT, 20'-0" FLAT LENS TO BE USED WITH HOUSE SIDE SHIELD	UNV
BB	COOPER	BOCA 696 - 4000 KELVINS		LED	8	GROUND		WET PROTECTED - GROUND MOUNTED UPLIGHT	120
R	EATON	9004-W2-RW-LED4080-S-S-CS-L1-UNV-WIS		LED	28.5	SURFACE	8'-8"	EXTERIOR UP/DOWN SCONCE (MOUNT 8'-8" AFF TO CENTER OF FIXTURE U.N.O.)	UNV
T	HUBBELL	LNC3		LED	60	SURFACE	10'-6"	MIDSIZED LED WALLPACK (WITH OPTIONAL PHOTO-EYE SWITCH)	UNV



2 TYPICAL POLE BASE DETAIL
scale: N.T.S.



1 PHOTOMETRIC PLAN
scale: 1"=20'-0"



Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
OVERALL SITE	Illuminance	Fc	0.66	9.4	0.0	N.A.	N.A.
PARKING LOT	Illuminance	Fc	2.11	9.4	0.5	4.22	18.80

LINGLE DESIGN GROUP, INC
LINGLEDESIGNGROUP, INC
158 WEST MAIN STREET
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5875
WWW.LINGLEDESIGN.COM

JCAA
ENGINEERS, P.C.
JCAA
4100 Wadsworth Blvd.
Wheat Ridge, CO 80033
p. 303.985.3280
TX F-14436

ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF LINGLE DESIGN GROUP, INC. THEY MAY NOT BE REVISED, COPIED, REPRODUCED, OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.



22.10.04

PROJECT #:
22.102
DRAWN BY: CO CHECKED BY: JCAA

PERMIT SET - 08/12/2022
▲
▲
▲
▲

SHERWIN WILLIAMS

STORE #
XXXX

ADDRESS:
LOT 3, BLOCK "A"
HIGHWAY 973
MANOR, TX 78653

SHEET TITLE:
PHOTOMETRICS

SHEET NUMBER:
E600