
SCHOOL DISTRICT OF INDIAN RIVER COUNTY

FELLSMERE ELEMENTARY SCHOOL

SINGLE POINT OF ENTRY RENOVATION

50 N CYPRESS ST., FELLSMERE, FL 32948



S + A Project No. 18031

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SCHOOL DISTRICT OF INDIAN RIVER COUNTY

BOARD MEMBERS

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DISTRICT 1

JACQUELINE ROSARIO
DISTRICT 2

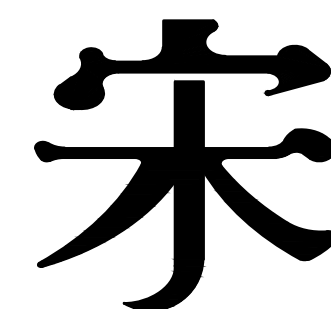
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SUPERINTENDENT

NANCY ESPLEN
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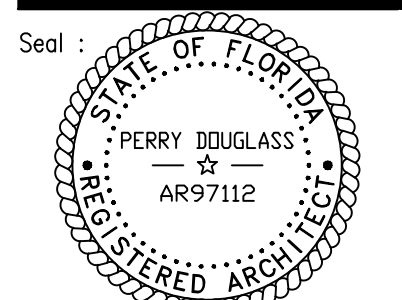
Song + Associates

Architecture • Planning • Interior Design

100% CONSTRUCTION DOCUMENTS

JANUARY 10, 2018

TO THE BEST OF MY KNOWLEDGE,
THESE DRAWINGS AND THE PROJECT
MANUAL ARE COMPLETE AND
COMPLY WITH THE FLORIDA
BUILDING CODE, THE FLORIDA FIRE
PREVENTION CODE, AND OTHER
APPLICABLE CODES AND
REGULATIONS, AS DETERMINED BY
THE LOCAL AUTHORITY IN
ACCORDANCE WITH FBC CH. 105 AND
633 FLORIDA STATUTES.

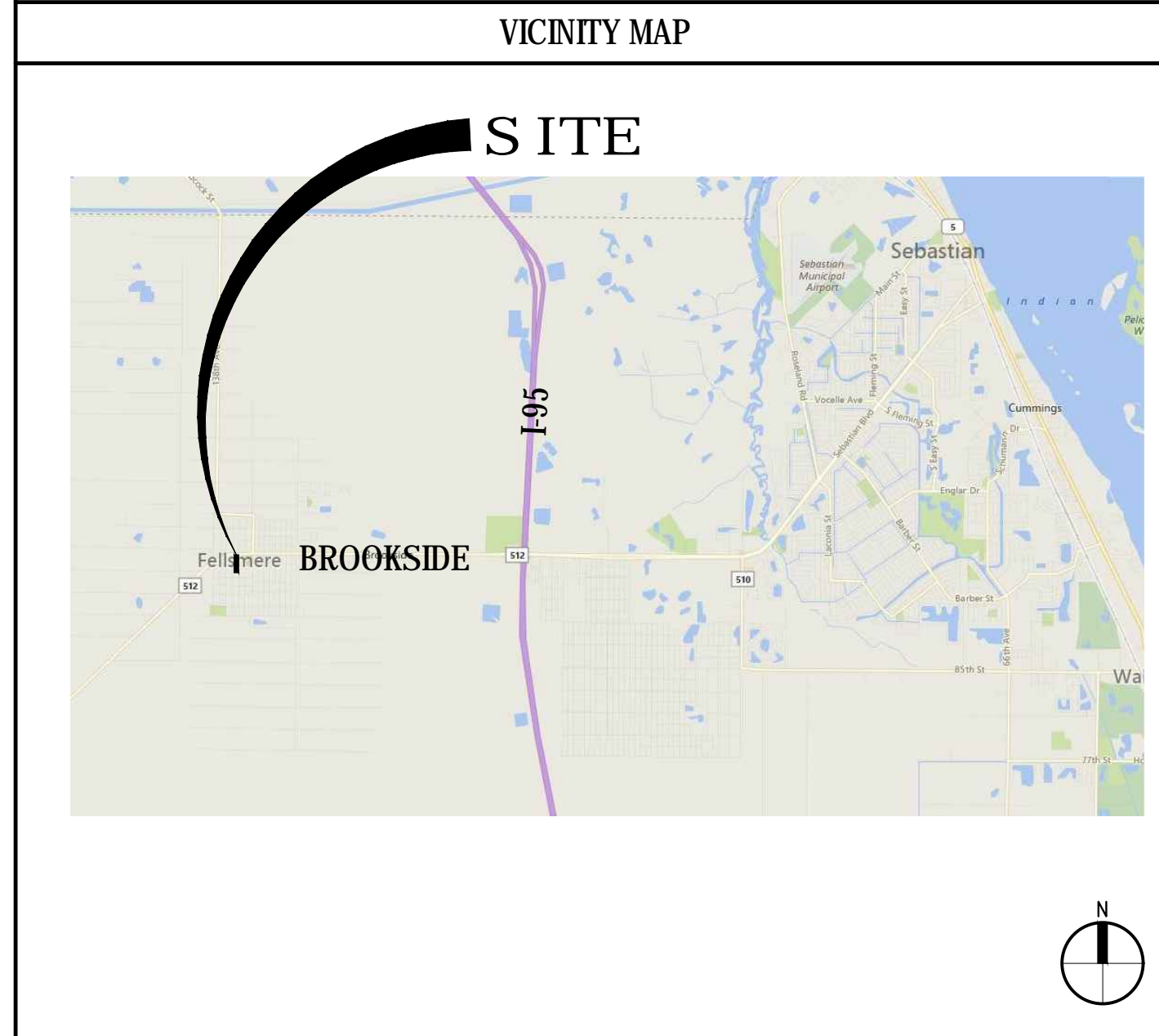
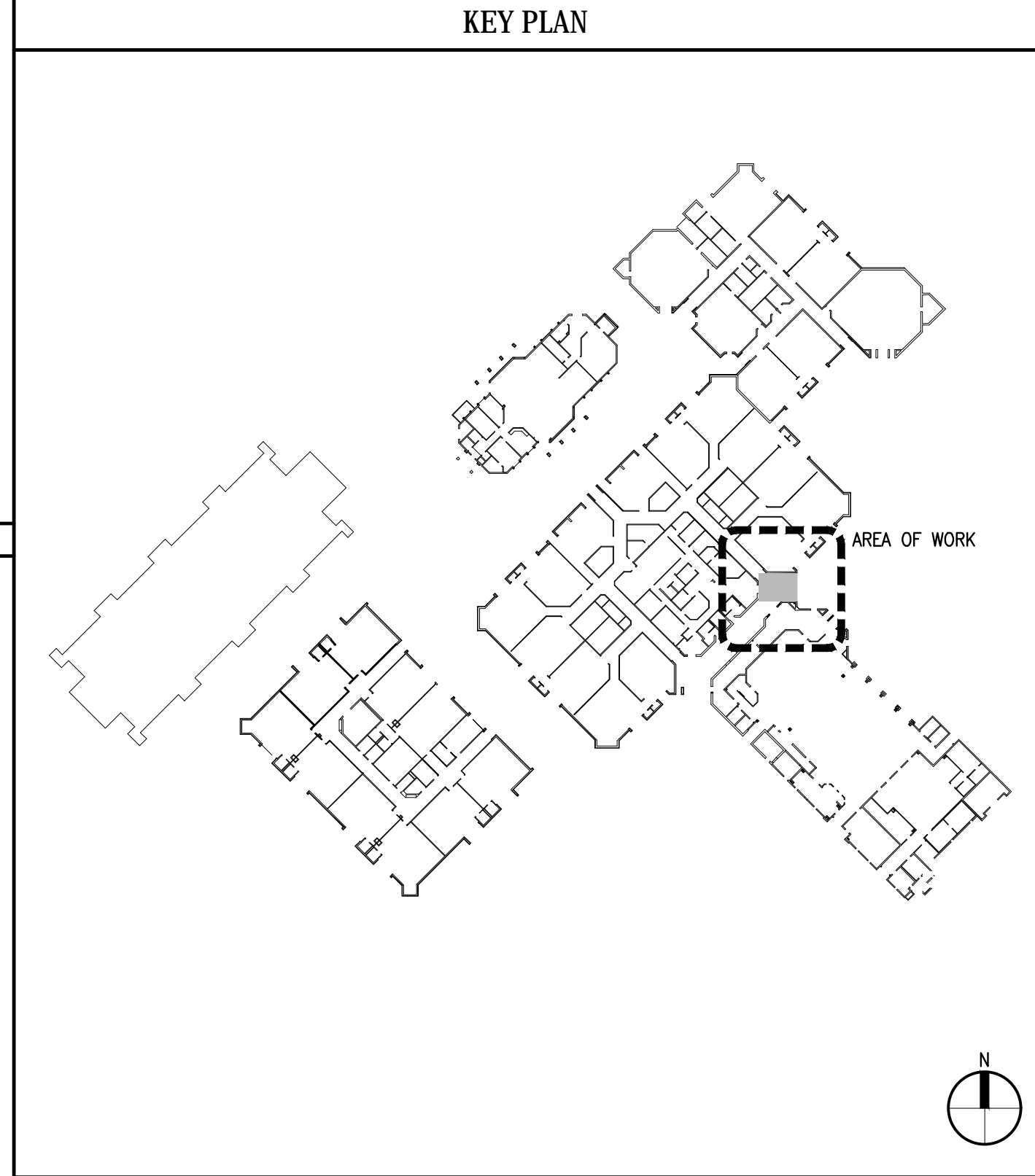


Name : PERRY DOUGLASS
License # : AR 97112

MATERIAL INDICATION		
ELEVATION	SECTION	PLAN
		EARTH FILL
		POROUS FILL (STONE, GRAVEL, ETC.)
		CAST IN PLACE CONCRETE
		PRECAST CONCRETE CAST STONE
		BRICK
		CONCRETE MASONRY UNIT (LARGE SCALE)
		CONCRETE MASONRY UNIT (SMALL SCALE)
		STEEL (LARGE SCALE)
		ALUMINUM (LARGE SCALE)
		STONE VENEER
		METAL (SMALL SCALE)
		ROUGH WOOD (CONTINUOUS)
		ROUGH WOOD (INTERMITTENT BLOCKING)
		WOOD (FINISHED)
		PLYWOOD (LARGE SCALE)
		PLYWOOD (SMALL SCALE)
		PARTICLE BOARD
		INSULATION (BATT)
		RIGID INSULATION (ROOF OR WALL)
		CERAMIC TILE
		PLASTER, SAND, CEMENT, GROUT, GYPSUM BOARD
		MARBLE
		GLASS

ARCHITECTURAL ABBREVIATIONS		
±	PLUS OR MINUS	PL
∠	ANGLE	PL
—	CENTER LINE	PL
⊙	DIAMETER OR ROUND	PL
⊙	AT	PL
AC	AIR CONDITIONING	INT
ACC	ACCESSIBLE	JB
ACT	ACOUSTICAL CEILING TILE	JT
AD	AREA DRAIN	MAX
ADJ	ADJUSTABLE	MIN
AFF	ABOVE FINISH FLOOR	MISC
A.L.	ARC LENGTH	MO
ALUM	ALUMINUM	MTL
BD	BOARD	NIC
BLDG	BUILDING	NO / #
BLK	BLOCK	NTS
BM	BEAM	OH
BOB	BOTTOM OF BEAM	OC
BUR	BUILT-UP ROOF	OD
CIP	CAST IN PLACE	OPP
CJ	CONTROL JOINT	PLAS
CL	CHAIN LINK	PLYWD
CLR	CLEAR	POB
CLG	CEILING	PREFAB
CMU	CONCRETE MASONRY UNIT	PSF
COL	COLUMN	PSI
CONC	CONCRETE	PT
CONT	CONTINUOUS/CONTINUE	R
D	DEPTH	RA
DWG	DRAWING	RAD / R
EA	EACH	RD
EC	EASED CORNER	REINF
EJ	EXPANSION JOINT	REQ'D
ELEV	ELEVATION / ELEVATOR	RM
EQ	EQUAL	SCHED
EQUIP	EQUIPMENT	SHT
EXP	EXPANSION	SIM
EWC	ELECTRIC WATER COOLER	SP
EXT	EXTERIOR	SPEC(S)
FD	FLOOR DRAIN	STD
FE	FIRE EXTINGUISHER	STL
FEC	FIRE EXTINGUISHER CABINET	SUSP
FDN	FOUNDATION	SW
FHC	FIRE HOSE CABINET	T
FIN	FINISH	TOB
F.F.	FINISH FLOOR	TOC
FLR	FLOOR	TOF
FT	FEET / FOOT	TOI
GA	GAUGE	TOM
GALV	GALVANIZED	TOP
GEN	GENERAL	TOS
GL	GLASS	TOW
GUM	GLASS UNIT MASONRY	TYP
GWB	GYPSUM WALLBOARD	UNO
GYP	GYPSUM	VERT
H/HT	HEIGHT	VCT
ID	INSIDE DIAMETER	W
IN	INCH / INCHES	W /
INSUL	INSULATION	WD

SYMBOLS AND NOTES		ELEVATION DATUM	
1-100	ROOM DESIGNATION		T.O. PARAPET LOCATION HEIGHT
X	ROOM NUMBER		EXTERIOR ELEVATION KEY SHEET NUMBER
X	ROOM NAME		VIEWPOINT KEY ELEVATION NUMBER SHEET NUMBER
	DOOR KEY		BUILDING SECTION / DETAIL KEY SECTION NO. SHEET NO.
	WINDOW KEY		WALL SECTION/DETAIL KEY SHEET NO. SECTION NO.
	FINISH KEY		DETAIL KEY DETAIL NUMBER SHEET NUMBER AREA OF CONCERN
	CASEWORK KEY		REVISION DELTA DETAIL NO.
	PARTITION TYPE KEY		INTERIOR ELEVATIONS KEY ELEVATION NUMBER SHEET NUMBER
	NORTH ARROW		



SHEET INDEX				
SHEET NUMBER	SHEET TITLE	ISSUE DATE	REV. #	REV. DATE
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G-101	INDEX, ABBREVIATIONS, GENERAL NOTES & VICINITY MAP	01/10/19		
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S-001	GENERAL NOTES	01/10/19		
S-100	FOUNDATION LAYOUT AND DETAILS	01/10/19		
S-300	ROOF FRAMING PLAN AND DETAILS	01/10/19		
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A-01	OVERALL FLOOR PLAN	01/10/19		
A-02	FLOOR PLAN & RCP	01/10/19		
A-03	ROOF PLAN AND DETAILS	01/10/19		
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A-05	DOOR SCHEDULE AND DETAILS	01/10/19		
MFP				
P-01	GENERAL NOTES & FIXTURE SCHEDULE - PLUMBING	01/10/19		
P-02	DETAILS - PLUMBING	01/10/19		
P-03	FLOOR PLAN / ROOF PLAN - PLUMBING	01/10/19		
M-02	DEMOLITION & NEW FLOOR PLAN, ROOF PLAN - HVAC	01/10/19		
E-01	GENERAL NOTES - ELECTRICAL	01/10/19		
E-02	DEMOLITION, NEW LIGHTING PLAN, NEW POWER PLAN - ELECT	01/10/19		
E-03	NEW FLOOR PLAN & PANEL SCHEDULE - ELECTRICAL	01/10/19		

- ### GENERAL NOTES
- THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR ANY INCONSISTENCIES.
 - ALL DIMENSIONS FOR NEW WORK ARE TO FACE OF STUDS, FACE OF CMU OR CONG. AND CENTERLINES OF COLUMNS, UNLESS OTHERWISE INDICATED. ALL DIMENSIONS TO EXISTING ARE TO FACE OF FINISH UNLESS OTHERWISE INDICATED. DIMENSIONS TAKE PRECEDENCE OVER SCALING OF DRAWINGS.
 - UPON COMPLETION OF THE WORK, PROPERTY AND ADJACENT AREAS SHALL BE LEFT CLEAN AND SATISFACTORY TO THE OWNER AND THE ARCHITECT.
 - SCHOOL CAMPUS IS OCCUPIED AND GENERAL CONTRACTOR AND SUBS SHALL TAKE ALL MEANS NECESSARY TO PROVIDE A SAFE AND SECURE CONSTRUCTION BOUNDARY/LIMIT OF CONSTRUCTION.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, PATCHING AND FITTING OF ALL WORK IN A NEAT WORKMANLIKE MANNER. PROTECT ALL ADJACENT SURFACES FROM DAMAGE. PATCH AND REPAIR ALL WORK DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL OR BETTER CONDITION. WHERE NEW WORK ADJOINS EXISTING IN THE SAME PLANE, MATCH ADJACENT FINISHES, MATERIALS, TEXTURES, SHEEN, ETC.
 - A PRE-CONSTRUCTION COORDINATION MEETING SHALL BE HELD WITH THE CONTRACTOR, OWNER AND ARCHITECT PRIOR TO THE START OF ANY DEMOLITION OR CONSTRUCTION.
 - CONTRACTOR SHALL PROVIDE A LIST OF ALL SUB-CONTRACTOR'S TO THE ARCHITECT PRIOR TO ANY DEMOLITION OR CONSTRUCTION.
 - GENERAL AND ALL SUB-CONTRACTORS, SHALL VISIT THE SITE AND PRECISELY EXAMINE THE EXISTING STRUCTURE, SURFACES, CONDITIONS AND EXTENT OF WORK INVOLVED. AFTER EXAMINATION A DEMOLITION SCHEDULE SHALL BE PREPARED AND SUBMITTED IN WRITING TO THE OWNER AND THE ARCHITECT FOR THEIR APPROVAL PRIOR TO THE COMMENCEMENT OF ANY WORK.
 - CONTRACTOR(S) ARE RESPONSIBLE FOR VERIFYING THE EXTENT OF DEMOLITION WORK PRIOR TO BIDDING, AND FOR THE COORDINATING THE EXTENT OF DEMOLITION WITH THE INSTALLATION OF NEW SYSTEMS AND FINISHES INDICATED IN THE CONTRACT DOCUMENTS. REFER TO THE NEW CONSTRUCTION DRAWINGS FOR DEMOLITION REQUIRED, BUT SHOWN ON DEMOLITION PLANS, IF APPLICABLE.
 - ALL CONTRACTOR(S) SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND MUNICIPAL ORDINANCES.
 - EXECUTE ALL DEMOLITION WORK IN AN ORDERLY AND CAREFUL MANNER WITH DUE CONSIDERATION FOR ANY EXISTING STRUCTURE. EXTREME CAUTION SHALL BE EXERCISED TO ENSURE THAT NO DAMAGE OCCURS ABSOLUTELY TO ANY OF THE EXISTING EQUIPMENT FURNITURE, OR EXISTING STRUCTURE TO REMAIN. METHODS SHALL BE IN PLACE TO PREVENT ANY DEBRIS FROM FALLING ONTO LOWER LEVELS AT ALL TIMES. WORK SHALL BE CONFINED EXCLUSIVELY WITHIN THE BUILDING BOUNDARY IDENTIFIED. DEMOLITION CONTRACTOR SHALL REPLACE OR REPAIR ANY DAMAGE TO ADJOINING SURFACES, FINISHES OR STRUCTURE CAUSED BY CONSTRUCTION OPERATIONS.(ACTIVITY)
 - ALL MATERIAL REMOVED UNDER THIS CONTRACT, WHICH IS NOT TO BE SALVAGED OR REUSED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. TO CONVEY MATERIALS, USE MOVABLE, COVERED, DEBRIS BOXES. DO NOT STORE/PERMIT DEBRIS TO ACCUMULATE ON SITE.
 - UPON COMPLETION OF THE WORK, ADJACENT AREAS AND THE PROPERTY SHALL BE LEFT CLEAN AND SATISFACTORY TO THE LOCAL AUTHORITIES, THE OWNER, AND THE ARCHITECT. THE SITE SHALL BE CLEANED DAILY.
 - ALL DEBRIS REMOVAL FREQUENCY AND LOCATION AND STAGING SHALL BE COORDINATED WITH OWNER.
 - CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR WORK NEXT TO THE WORK SITE.

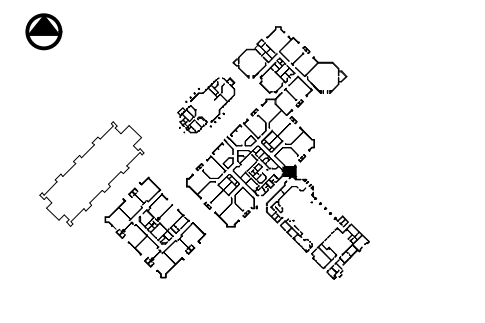
- ### APPLICABLE CODES
- TO THE BEST OF MY KNOWLEDGE, THESE DRAWINGS ARE COMPLETE, AND COMPLY WITH ALL APPLICABLE CODES
 - THE DESIGN AND CONSTRUCTION OF THIS PROJECT SHALL COMPLY WITH THE FOLLOWING CODES AND STANDARDS. SHOULD THERE BE A CONFLICT BETWEEN ANY CODE REQUIREMENTS, COMPLY WITH THE REQUIREMENT THAT PROVIDES THE GREATEST DEGREE OF LIFE SAFETY.
 - FBC (FLORIDA BUILDING CODE), 6TH EDITION (2017) INCLUDING:
 - FBC-BUILDING
 - FBC-MECHANICAL
 - FBC-PLUMBING
 - FBC-FUEL GAS
 - FBC-ACCESSIBILITY
 - FLORIDA FIRE PREVENTION CODE FAC 2017 INCLUDING:
 - NFPA 1-2015
 - NFPA 101-2015
 - NFPA CODES LISTED IN FAC 69A-60.005
 - 69A-58 FL FIRE SAFETY IN EDUCATIONAL FACILITIES, CURRENT EDITION
 - STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES 2014
 - ASCE 7-10: AMERICAN SOCIETY OF CIVIL ENGINEERS
 - UL FIRE RESISTANCE DIRECTORY AS VERIFIED AT WWW.UL.COM
 - OSHA (OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION, USDEPARTMENT OF LABOR, CFR 29 AS CURRENTLY REVISED
 - FEMA (FEDERAL EMERGENCY MANAGEMENT AGENCY), RULES & REGULATIONS, 44 CFR, PARTS 59 & 60, REVISED OCTOBER 1995 FOR FLOOD PLAIN CRITERIA GOVERNING INSURABILITY OF FACILITIES CONSTRUCTED IN FLOOD PLAIN AREAS.
 - FLORIDA STATUTES AND STATE RULES, INCLUDING, BUT NOT LIMITED TO, CHAPTERS 1013, 240, 255, 468, 471, 481, 489, 553, 633, AND SECTION 287.055, FLORIDA STATUTES, AND VARIOUS STATE RULES AS APPLICABLE TO SPECIFIC PROJECTS.
 - NFPA 101 CHAPTER 14 NEW EDUCATIONAL FACILITIES, SECTION 14.3.2 PROTECTION FROM HAZARDS

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Revisions:

Date: 01/10/2019
 S+A Project No: 18031
 Owner Project No:
 Drawn By: PD
 Checked By: PD
 Phase: 100% CONSTRUCTION DOCUMENTS

Sheet Title: INDEX, ABBREVIATIONS, GENERAL NOTES & VICINITY MAP
 Sheet #: G-101



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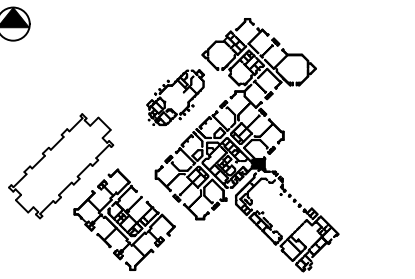
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THE SCHOOL DISTRICT OF INDIAN RIVER COUNTY
OFFICE OF FACILITIES & CONSTRUCTION



SINGLE POINT OF ENTRY RENOVATION

FELLSMERE ELEMENTARY SCHOOL
50 N CYPRESS ST.
FELLSMERE, FL 32948



Revisions:

Date: 01/10/2019

S+A Project No.: 18031

Owner Project No.:

Drawn By: AM

Checked By: AM

Phase: 100% CONSTRUCTION DOCUMENTS

Sheet Title: FOUNDATION LAYOUT AND DETAILS

Sheet #:

S100

FOUNDATION PLAN NOTES:

- ALLOWABLE NET SOIL BEARING CAPACITY = 2000 PSF. THE CONTRACTOR IS TO CONFIRM THIS BEFORE EXCAVATING.
- THE SOIL BEARING IS BASED ON CLEAN SANDY SOIL COMPACTED TO 98% MODIFIED PROCTOR.
- VERIFY BEARING CAPACITY AT BOTTOM OF FOOTING EXCAVATIONS PRIOR TO PLACING CONCRETE. SPECIAL INSPECTOR SHALL VERIFY AND REPORT PLACEMENT OF REINFORCING STEEL PRIOR TO PLACEMENT OF CONCRETE.
- REINFORCING AT CORNERS IN FOOTINGS TO MAINTAIN CONTINUOUS REINFORCING.
- COORDINATE WITH OTHER CONTRACT DOCUMENTS FOR INSTALLATION OF ALL REQUIRED SLEEVES, INSERTS, ETC. THROUGH THE CONCRETE AND MASONRY WALLS.
- PROVIDE CONTROL JOINTS IN SLAB 12 FT ON CENTER TO FORM SQUARE, OR NEAR SQUARE, PANELS.
- FORM ALL FOOTINGS AND SLAB ON GRADE. EARTH FORMING IS NOT ALLOWED.
- CENTERLINES OF FOOTINGS SHALL MATCH CENTERLINES OF MASONRY WALLS.
- GROUT SOLID MASONRY BELOW FIRST FLOOR F.F.L.

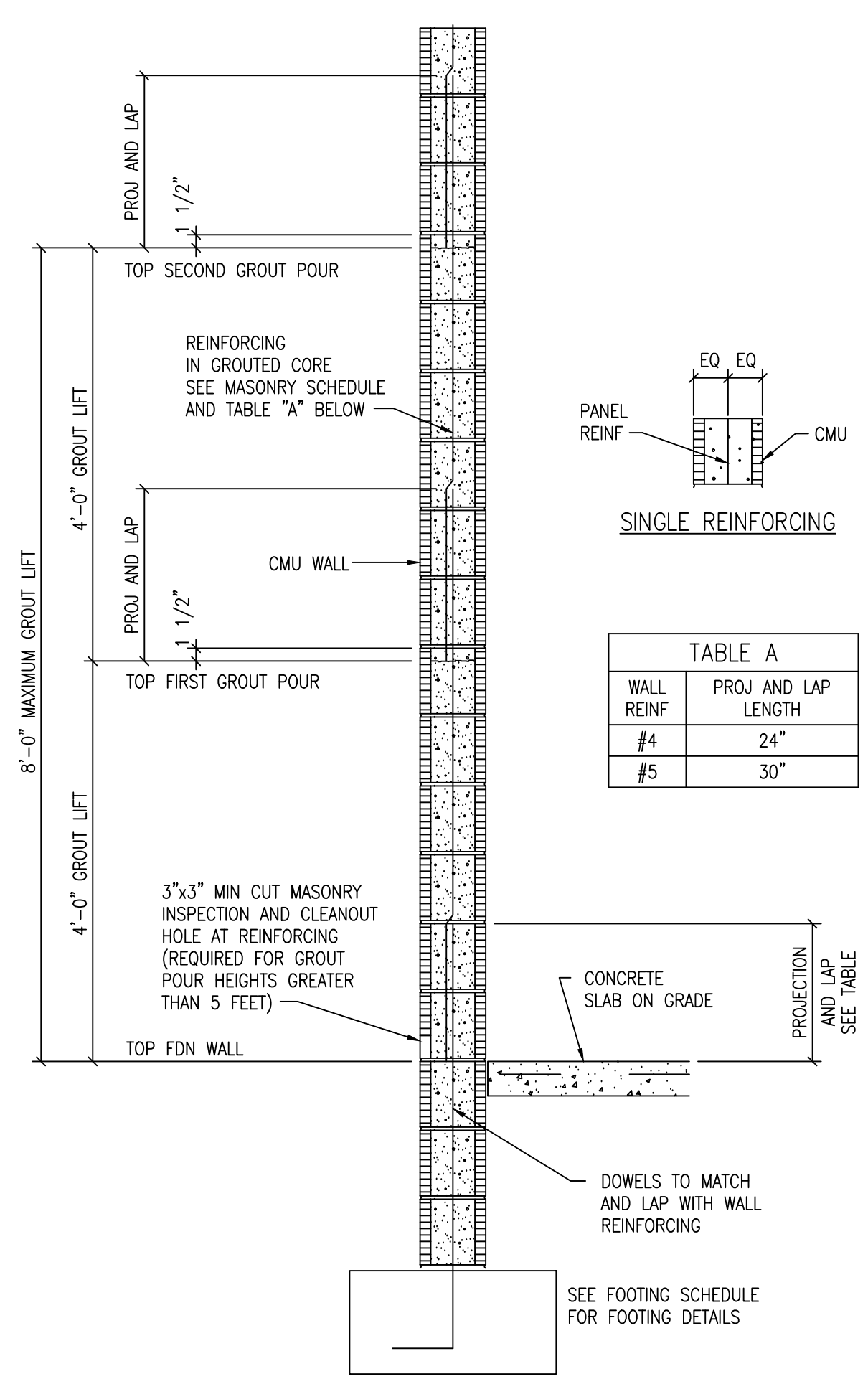
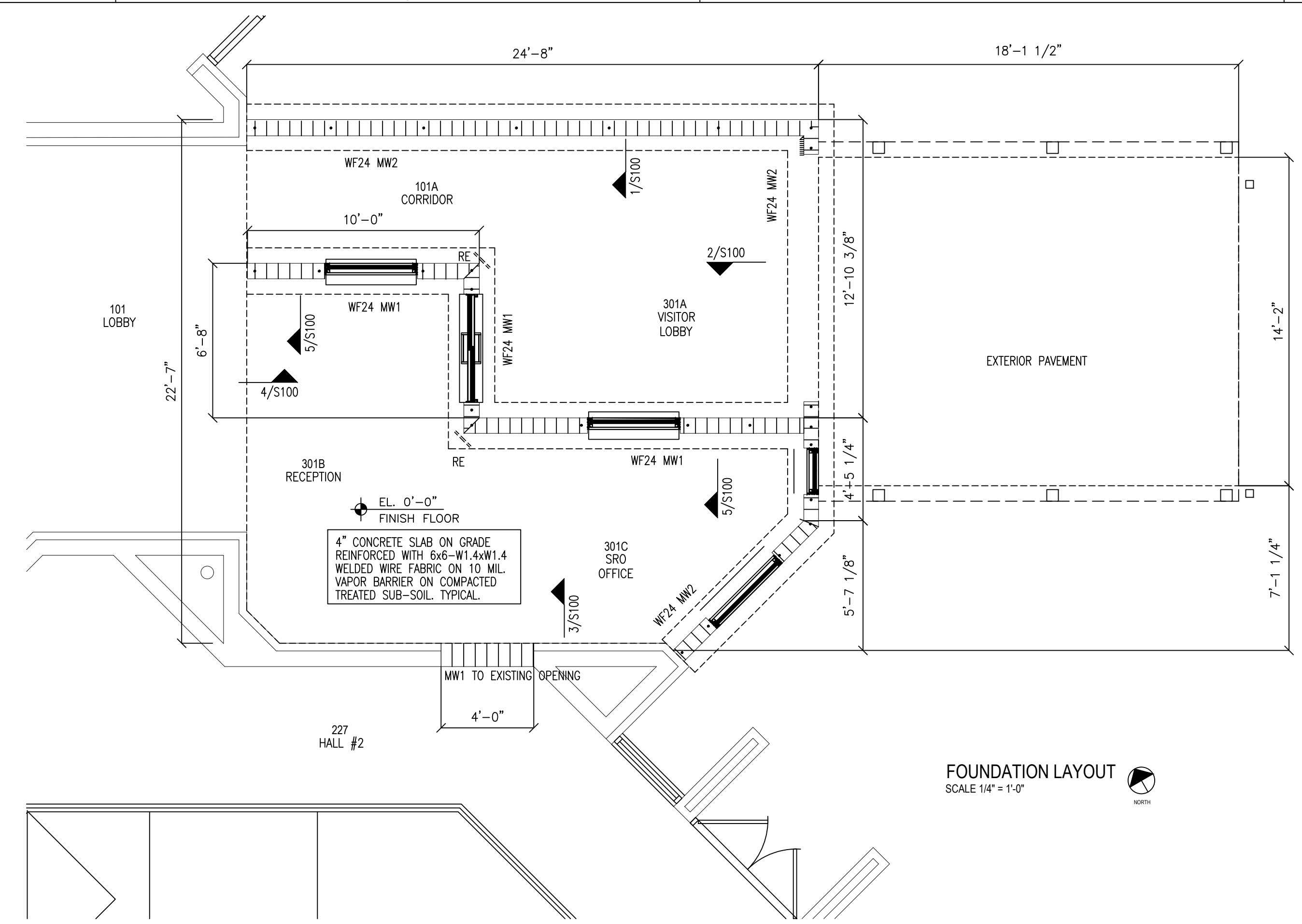
LEGEND:

FOR GENERAL STRUCTURAL NOTES SEE DRAWING S1.0

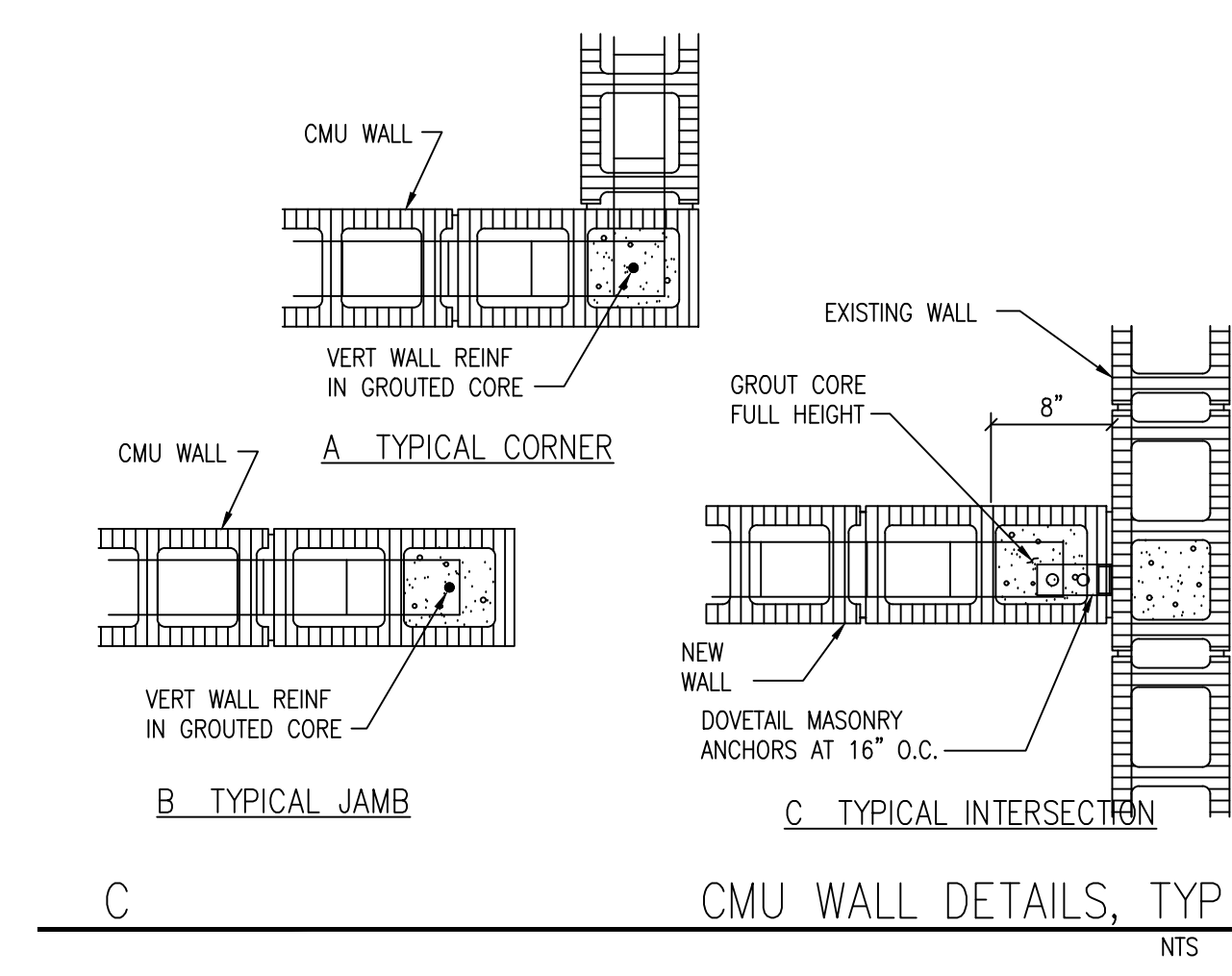
- WF = CONTINUOUS WALL FOOTING, SEE WALL FOOTING SCHEDULE.
 MW = MASONRY WALL REINFORCING MARK/TYP. SEE MASONRY WALL REINFORCING SCHEDULE DWG. S100
 ■■■■■■■■ EXTERIOR AND/OR INTERIOR LOAD BEARING CMU WALL
 RE = RE-ENTRANT BARS, 2#4 x 6'-0" LONG AT MIDDLE OF SLAB SECTION.

CONT. WALL FOOTING SCHEDULE		
MARK	FOOTING SIZE	REINFORCING
WF24	2'-0"x12" CONT.	3-#5 L.W. CONT. + #5 @ 15" S.W. BOT.

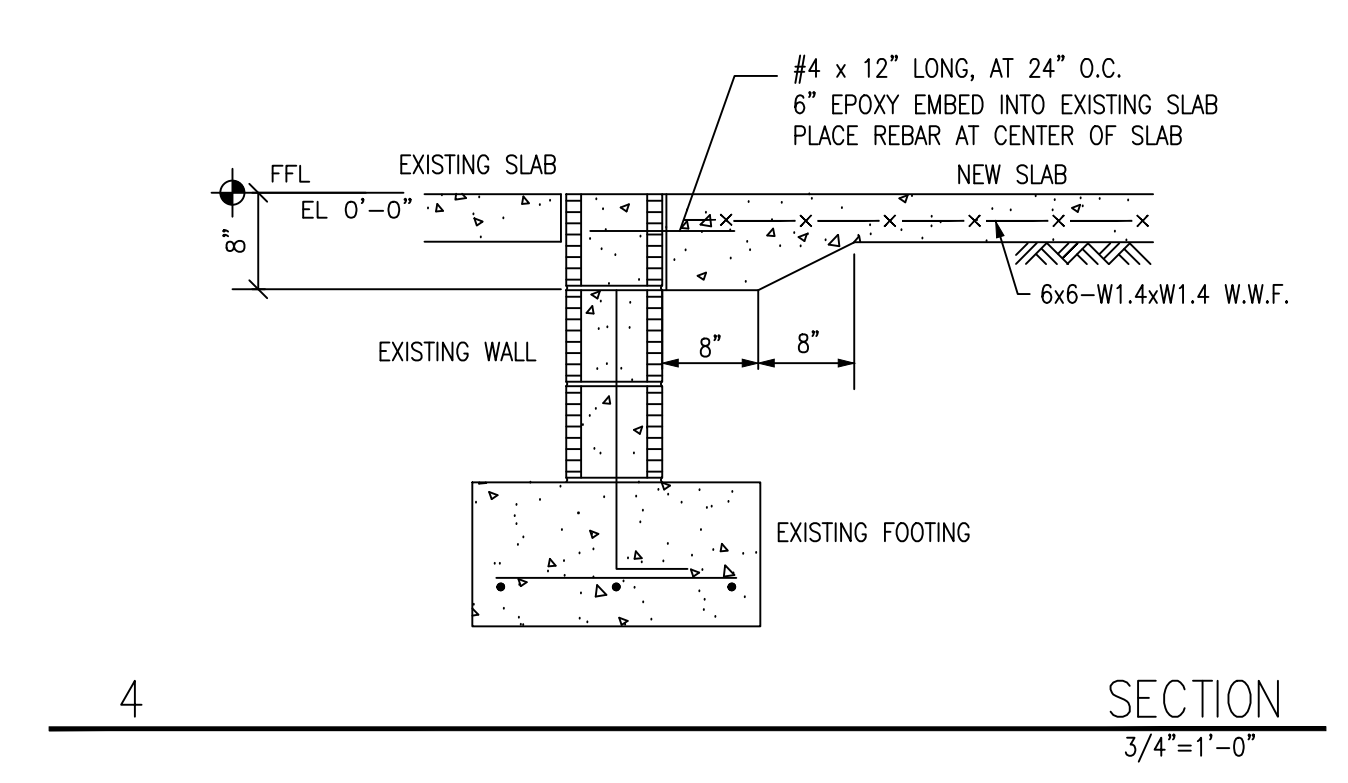
MASONRY WALL SCHEDULE			
MARK	CMU THICKNESS	REINFORCING	REMARKS
MW1	8"	#4 @ 48" O.C.	INTERIOR WALLS
MW2	8"	#5 @ 48" O.C.	EXTERIOR WALLS



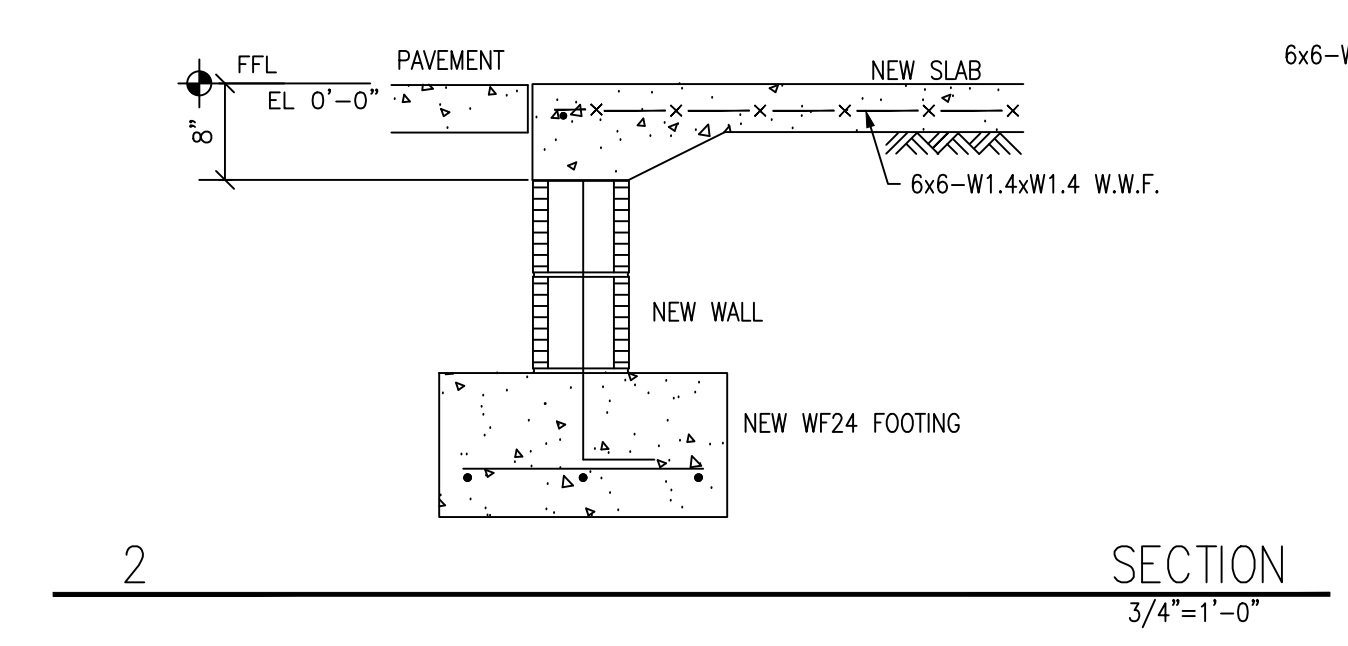
B TYPICAL REINFORCED CMU WALL NTS



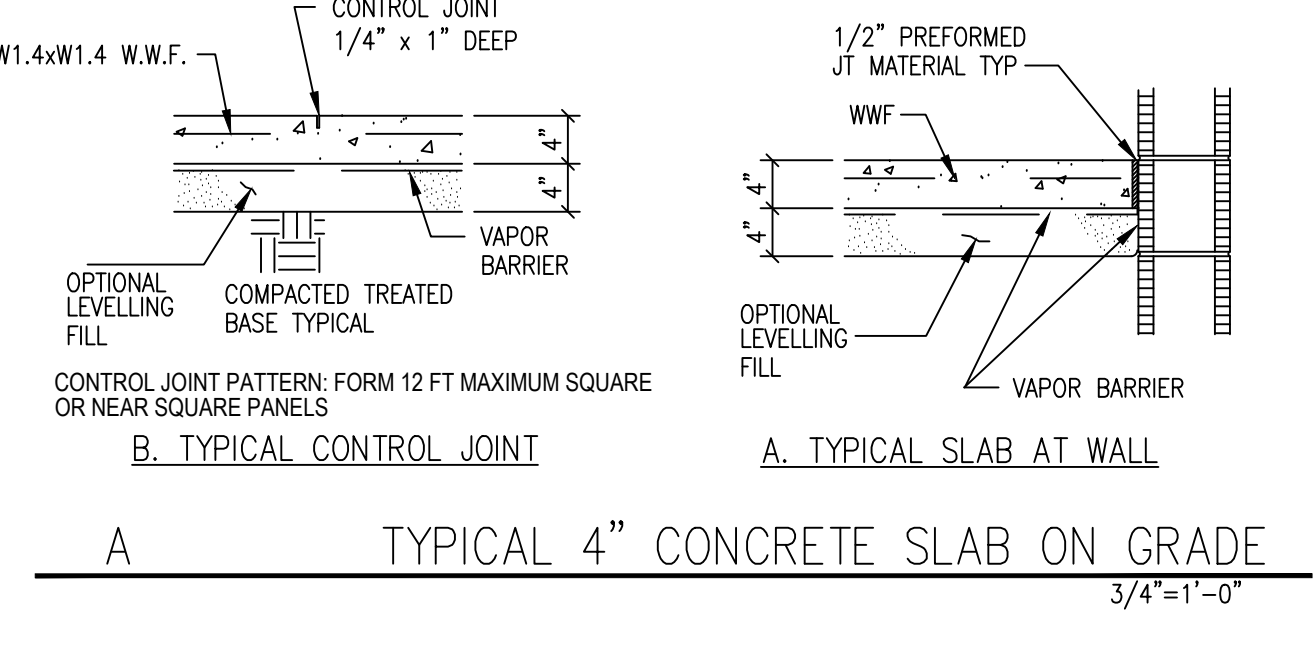
C CMU WALL DETAILS, TYP NTS



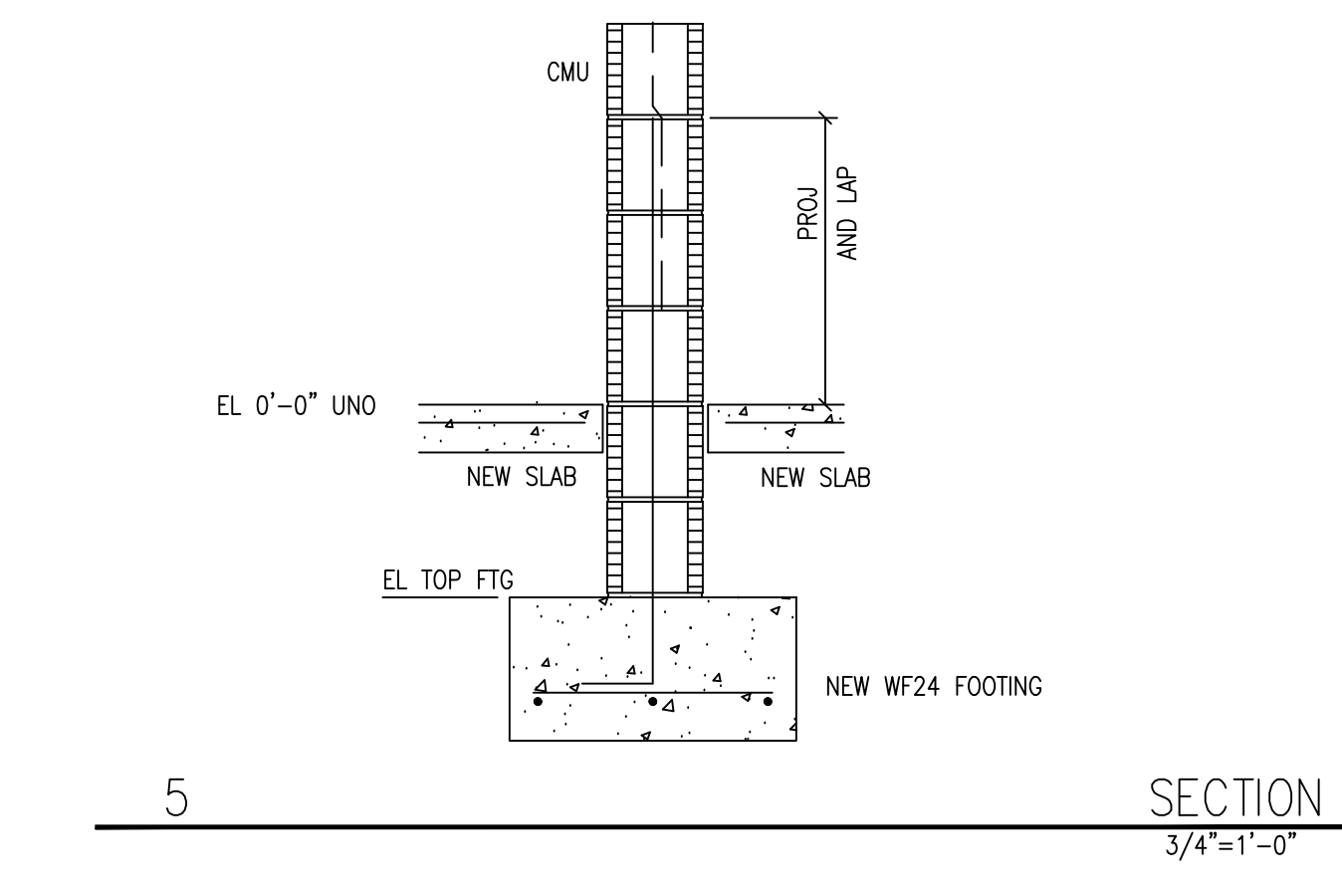
SECTION 4 3/4" = 1'-0"



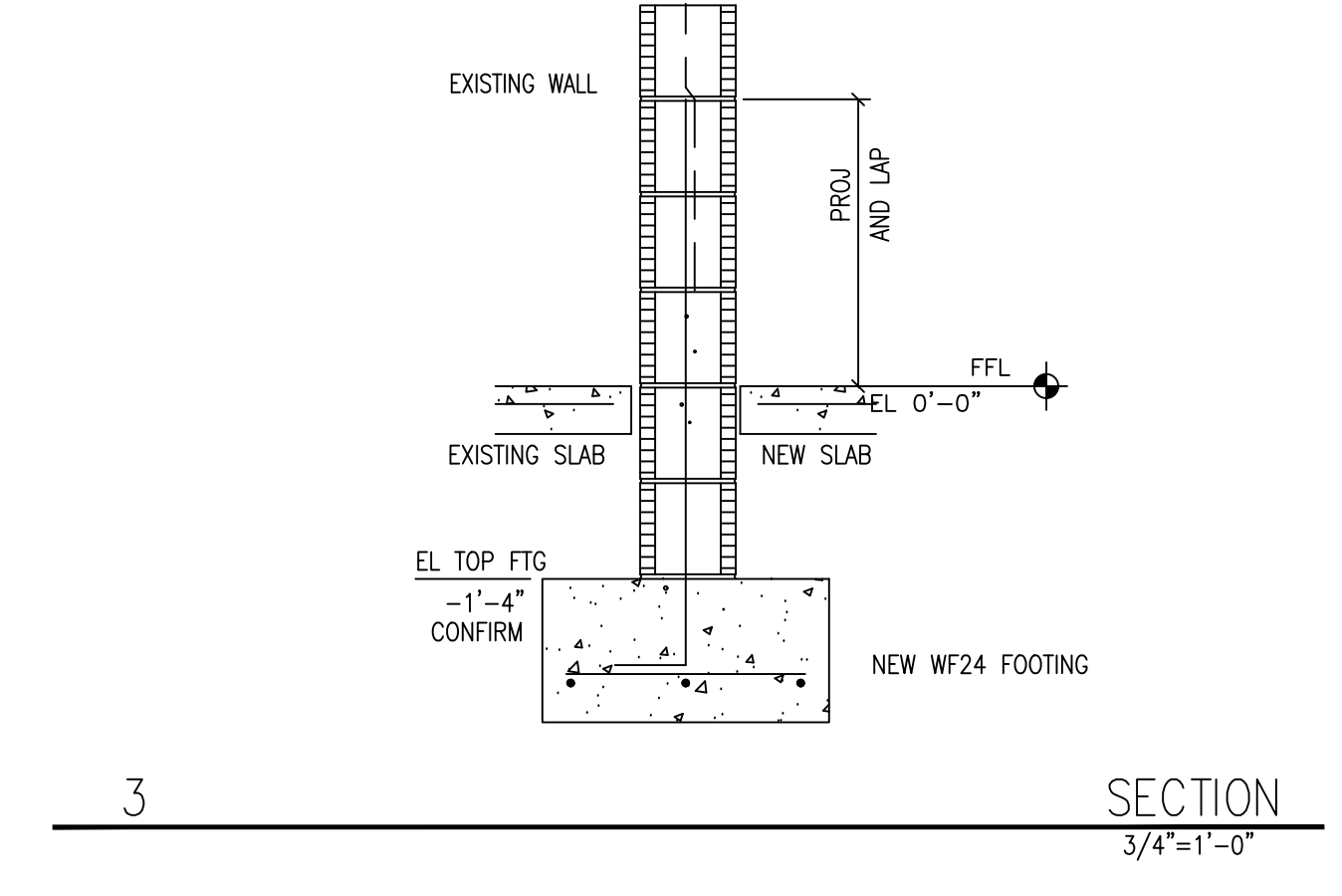
SECTION 2 3/4" = 1'-0"



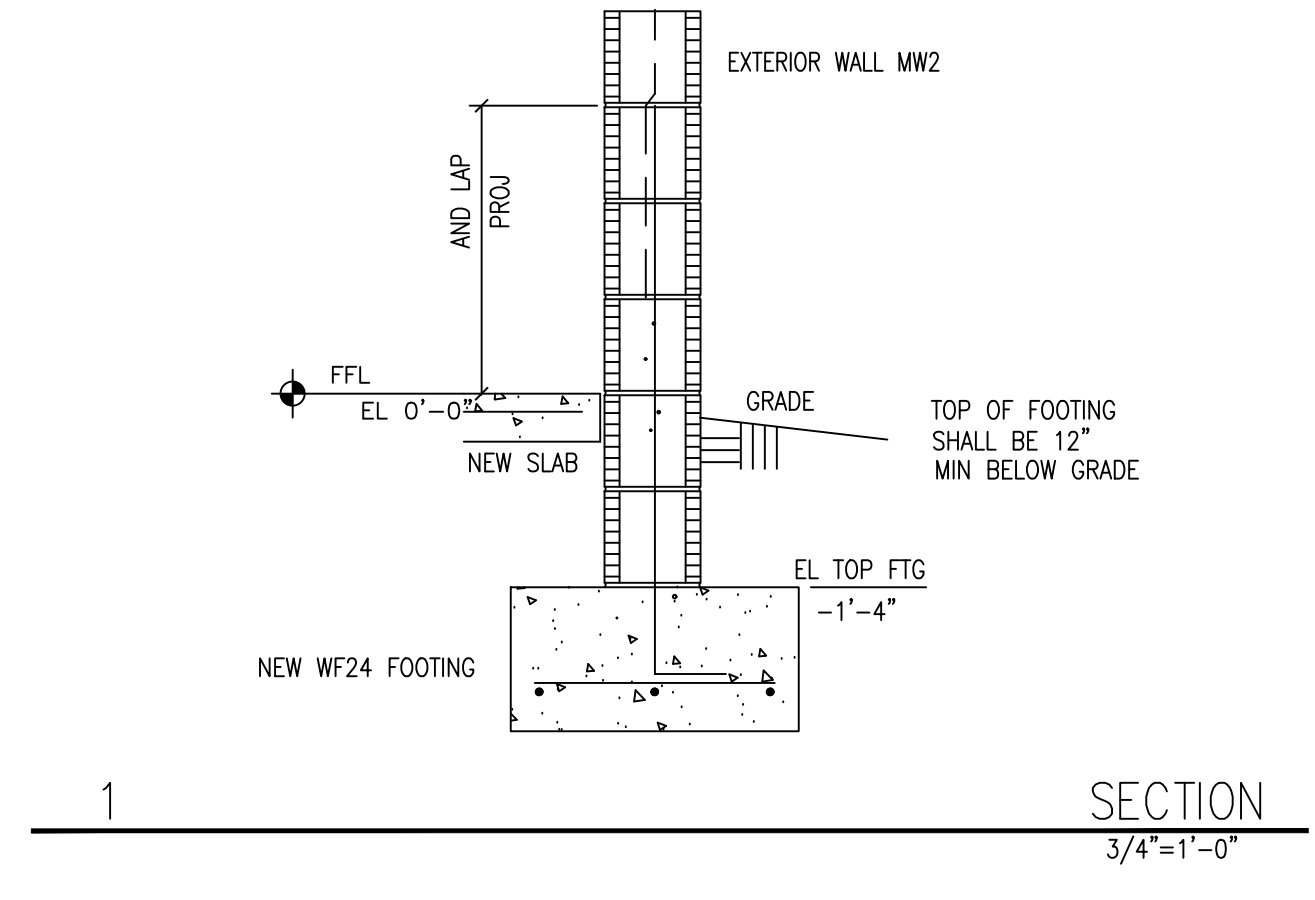
SECTION A 3/4" = 1'-0"



SECTION 5 3/4" = 1'-0"



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



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



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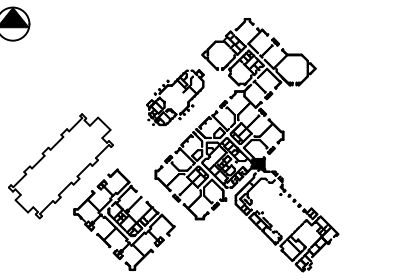
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Checked By: AM

Phase:

100% CONSTRUCTION DOCUMENTS

Sheet Title:

ROOF FRAMING PLAN AND DETAILS

Sheet #:

S300

PLAN NOTES:

- SEE DRAWING S001 FOR GENERAL NOTES AND DESIGN INFORMATION.
- THE STEEL DECK ROOF IS FLAT.
- PROVIDE UPLIFT BRIDGING TO ALL STEEL JOISTS.
- JOIST SPACING SHALL BE 5'-0" UNLESS SHOWN OTHERWISE.
- ROOF STEEL DECK SHALL BE VULCRAFT 1.5B GAUGE 20, CONTINUOUS OVER THREE SPANS MINIMUM, OR EQUIVALENT.
- FIX STEEL DECK TO SUPPORT PER DETAIL 8/S300 AND PRODUCT APPROVAL.

TYPICAL DETAILS MAY NOT BE CUT ON PLANS, BUT APPLY UNLESS NOTED OTHERWISE.

LEGEND:

J.B. ... INDICATES JOIST BEARING ELEVATION (SEE PLAN) JOIST BEARING ELEVATION = T.O. STEEL BEAM, TIE BEAM, BEARING PLATE OR BEARING ANGLE ASSEMBLY.

RO INDICATES FRAME REQUIRED FOR ROOF PENETRATION

R INDICATES DIRECTION OF ROOF DECK SPAN

DS DECK SUPPORT PLATE, PL 4"x1/4" CONT. W/ 1/2" x 5" NELSON STUDS, @ 24" O.C. EMBEDDED INTO TIE BEAM OR BOND BEAM SLOPE TIE BEAM SUPPORTING DS1 AS REQUIRED. WELD ROOF DECK TO DS1 WITH 5/8" PUDDLE WELDS AT SIX INCH CENTERS.

A L4x4x1/4 CONTINUOUS ROOF DECK SUPPORT ANGLE FASTENED TO PANEL WITH 3/4" DIA EPOXY ANCHORS. SEE DETAILS FOR SPACING OF ANCHORS.

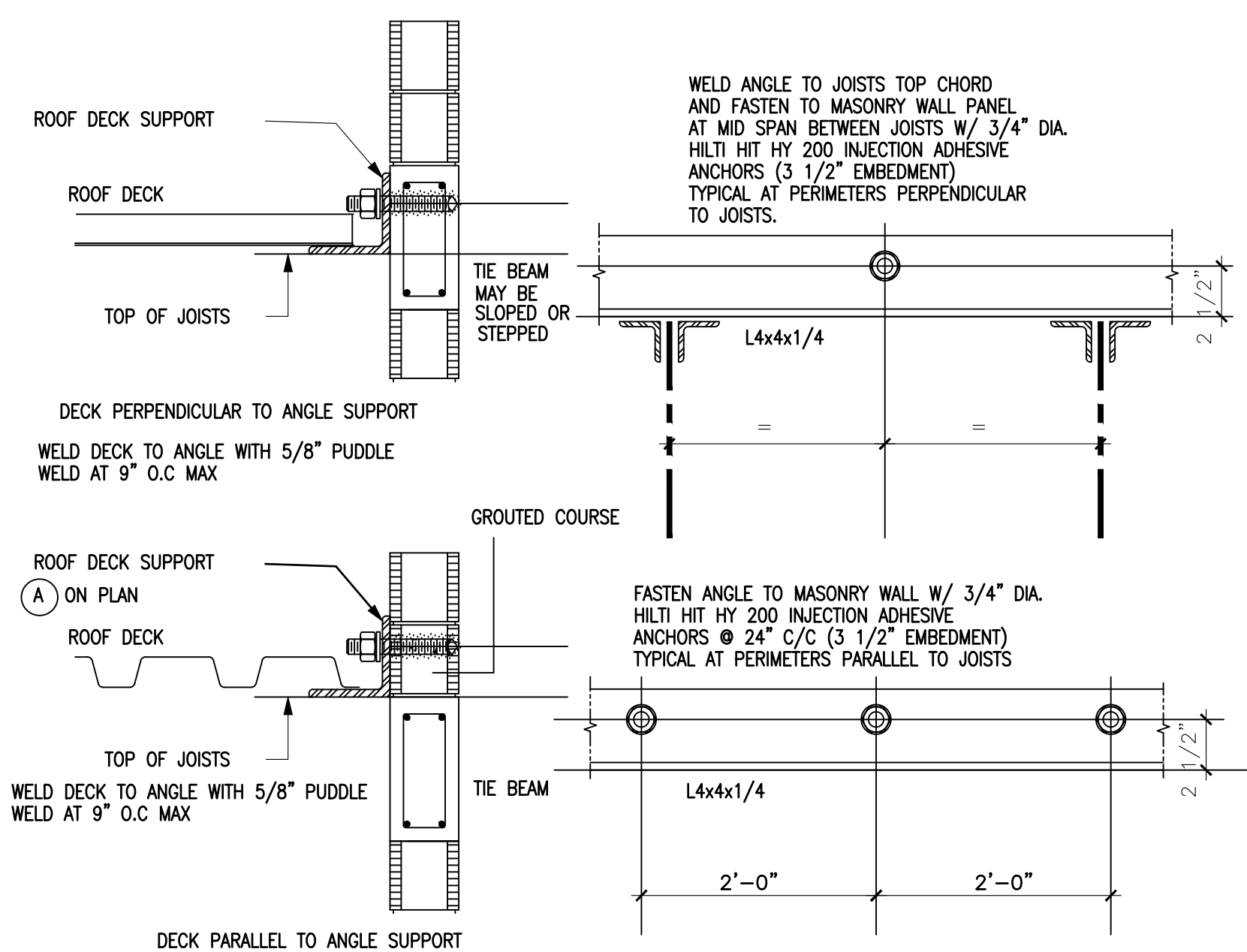
WELD ROOF DECK TO ANGLE WITH 5/8" PUDDLE WELDS AT SIX INCH CENTERS.

TB16 TIE BEAM AT TOP OF WALL, 8"x16" DEEP, 2#5 TOP AND BOTTOM, WITH #3 STIRRUPS AT 16" O.C.

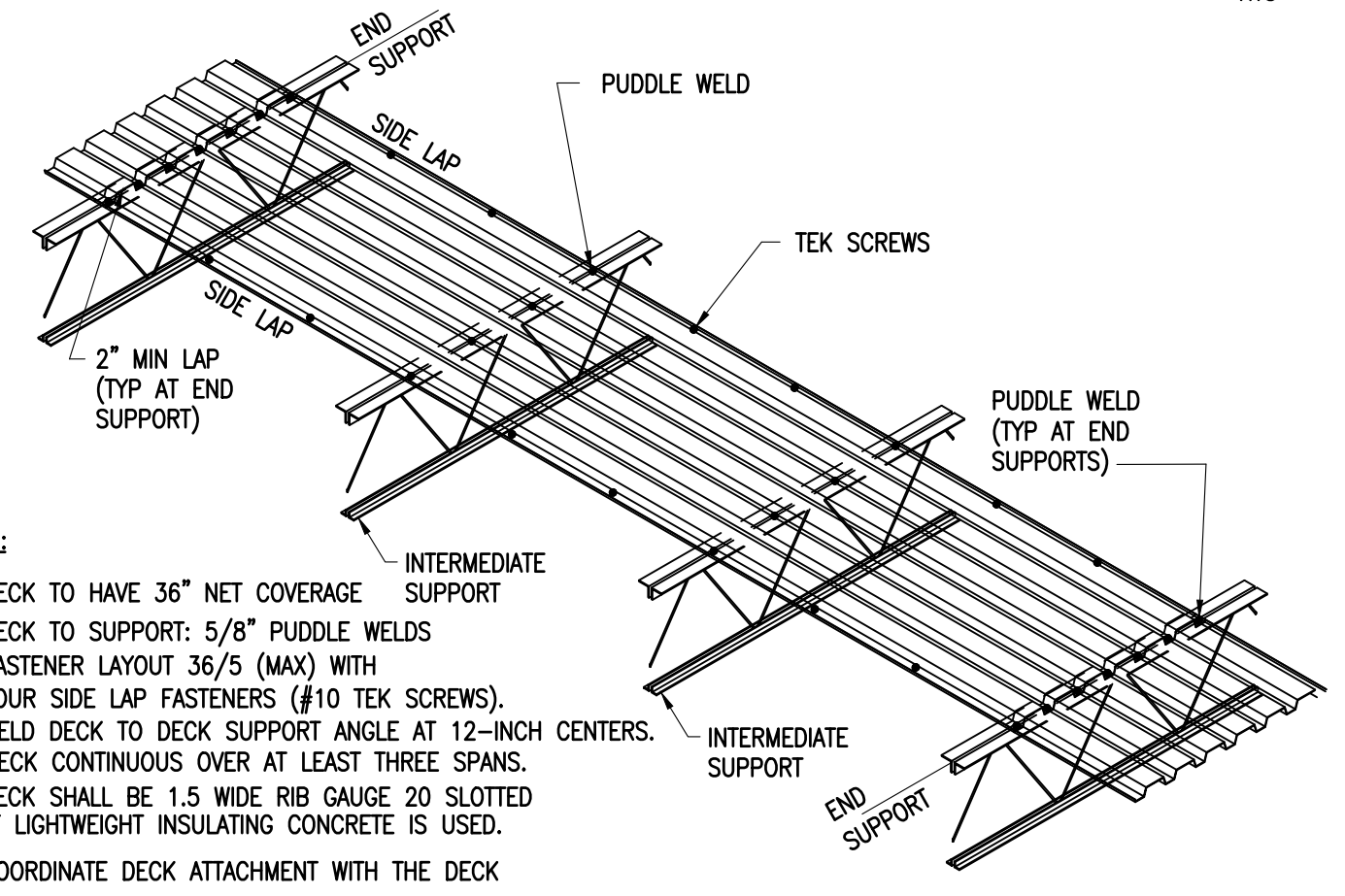
TB18 TIE BEAM AT TOP OF WALL, BOB EL 12'-0" 8"x18 1/2" DEEP, 2#5 TOP AND BOTTOM, WITH #3 STIRRUPS AT 16" O.C.

TB24 TIE BEAM OVER OPENING, BOB EL 9'-0" 8"x24" NOMINAL DEEP, 2#6 TOP AND BOTTOM, WITH #3 STIRRUPS AT 10" O.C.

L1 CASTORETE PRECAST LINTEL, TYPE BFB, 1B. SEE ARCHITECTURAL DRAWINGS FOR TOP OF OPENING/BOTTOM OF LINTEL ELEVATION.



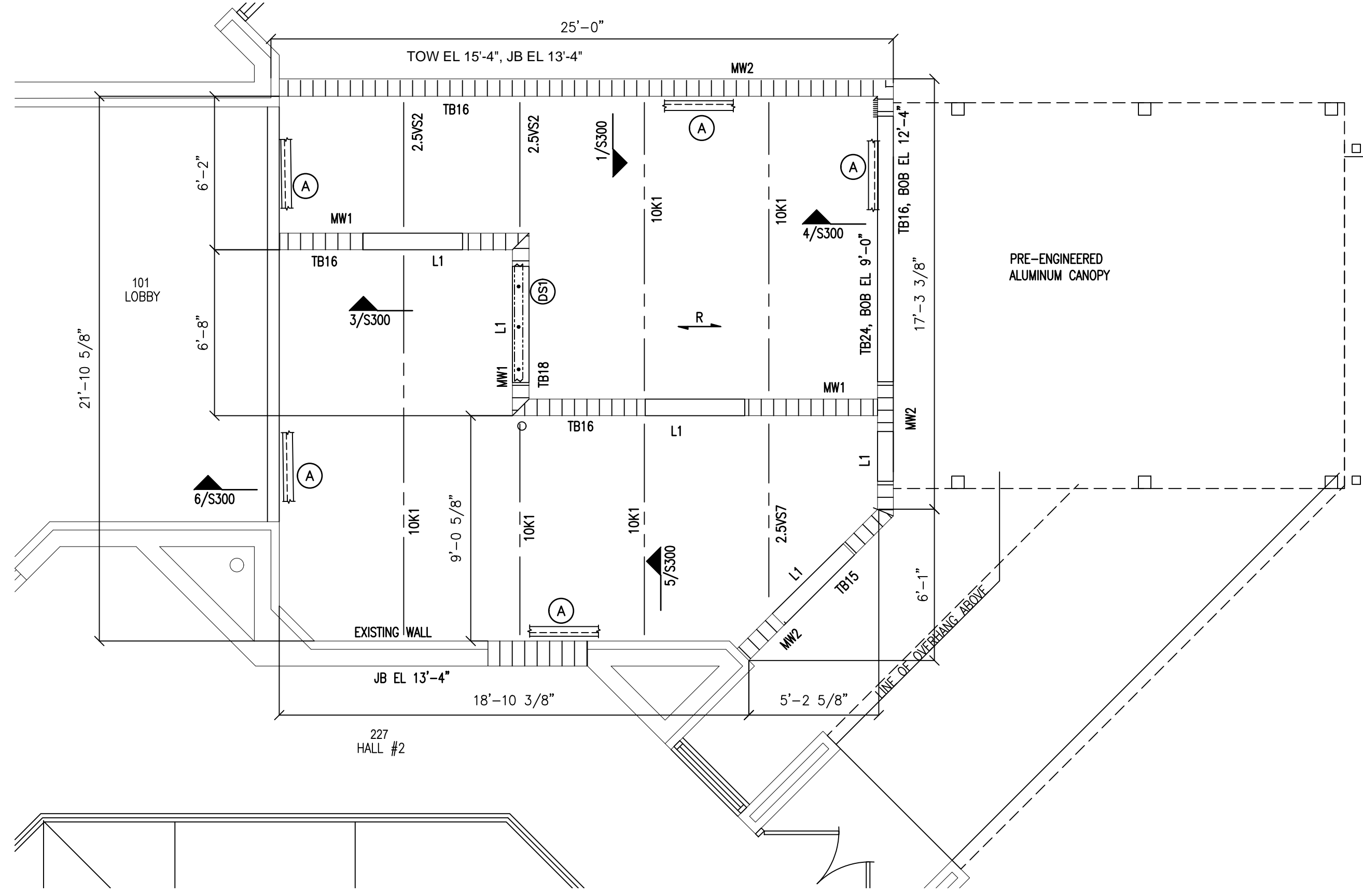
A ROOF DECK SUPPORT ANGLE DETAILS NTS



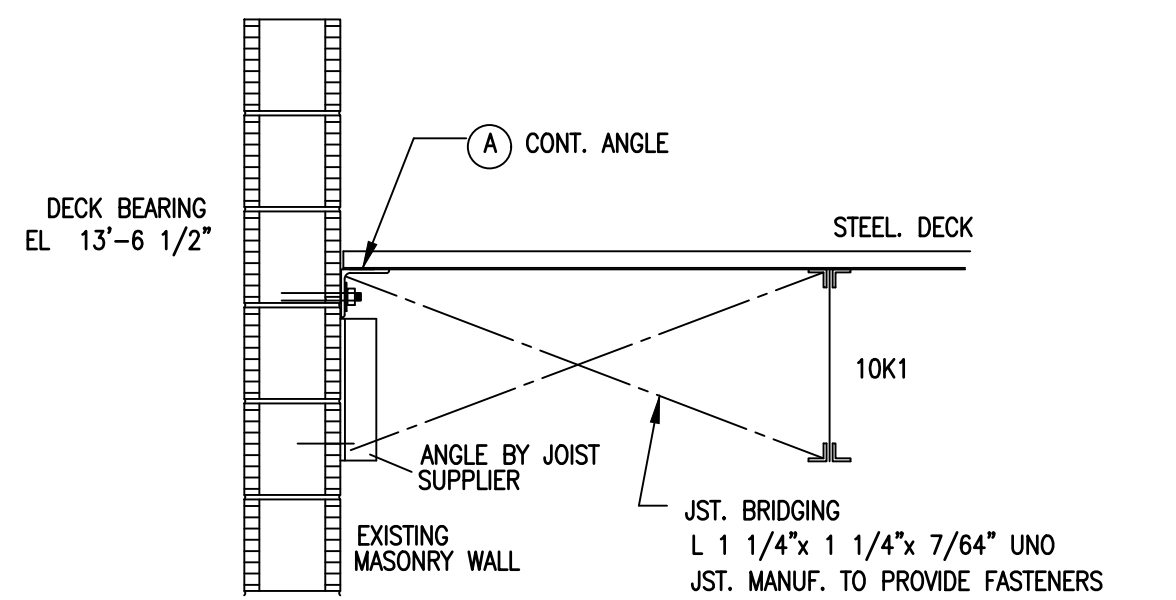
NOTES:

- DECK TO HAVE 36% NET COVERAGE
- DECK TO SUPPORT: 5/8" PUDDLE WELDS FASTENER LAYOUT 36/5 (MAX) WITH FOUR SIDE LAP FASTENERS (#10 TEK SCREWS). WELD DECK TO DECK SUPPORT ANGLE AT 12-INCH CENTERS.
- DECK CONTINUOUS OVER AT LEAST THREE SPANS.
- DECK SHALL BE 1.5 WIDE RIB GAUGE 20 SLOTTED IF LIGHTWEIGHT INSULATING CONCRETE IS USED.
- COORDINATE DECK ATTACHMENT WITH THE DECK PRODUCT APPROVAL

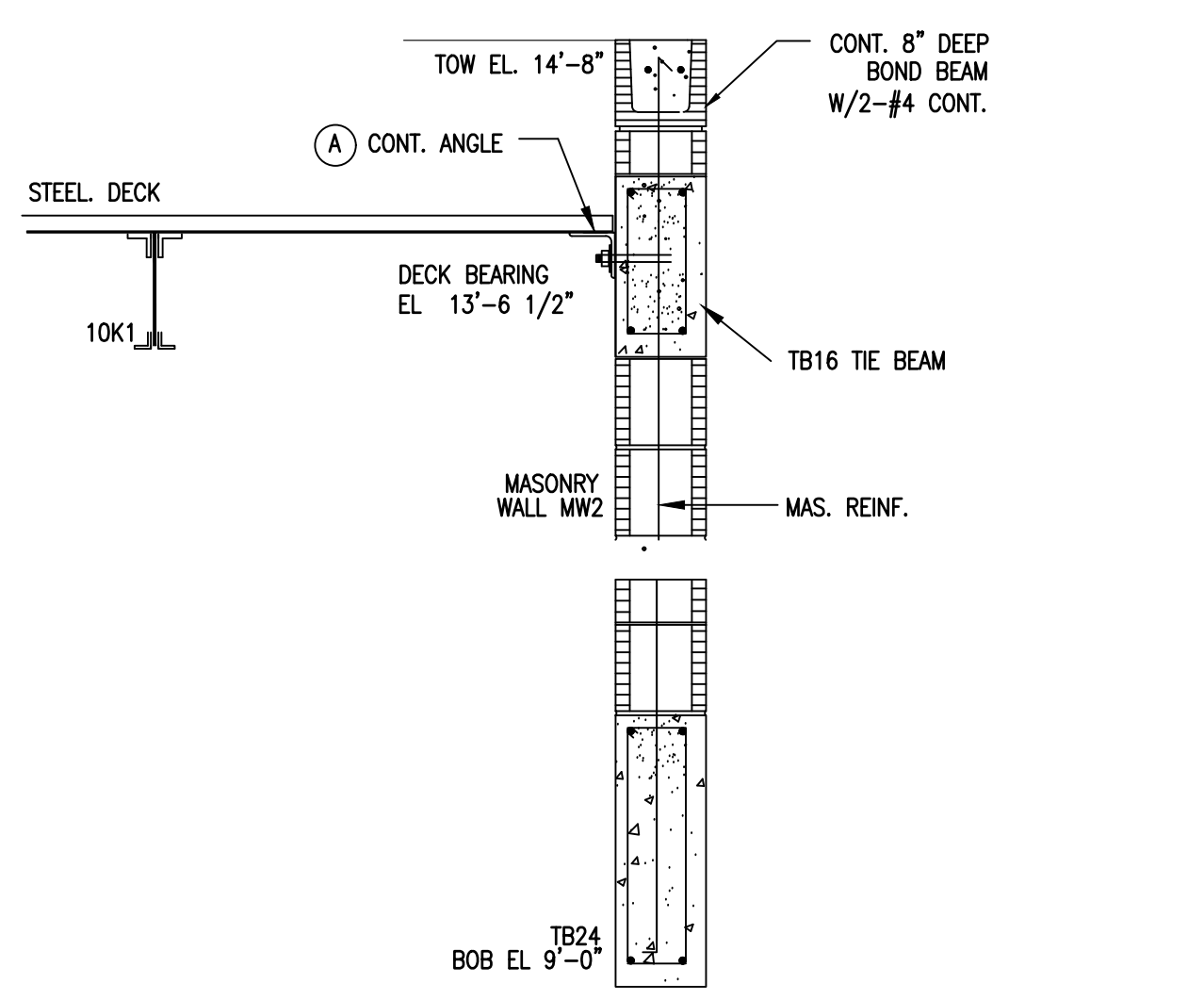
B TYPICAL ROOF DECK ATTACHMENT NTS



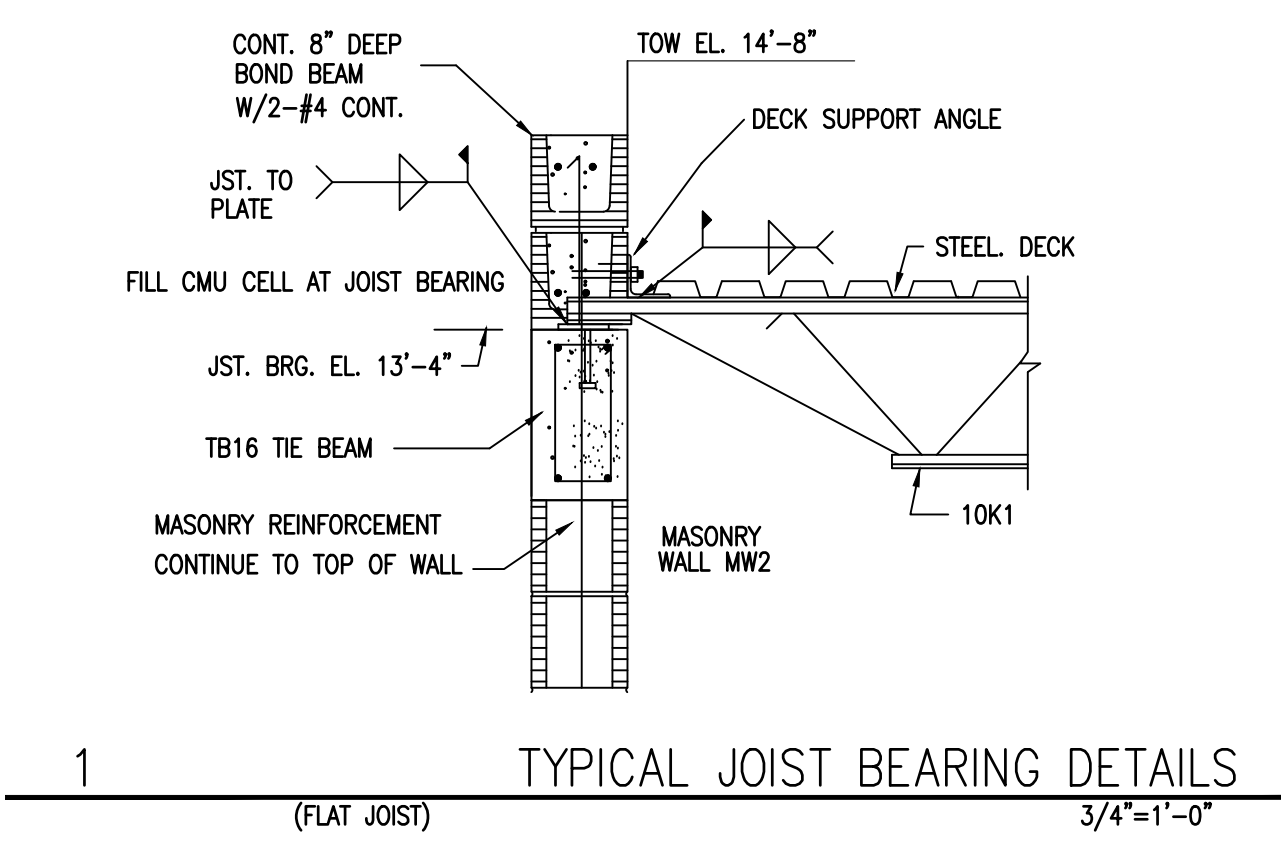
ROOF FRAMING PLAN SCALE 1/4" = 1'-0"



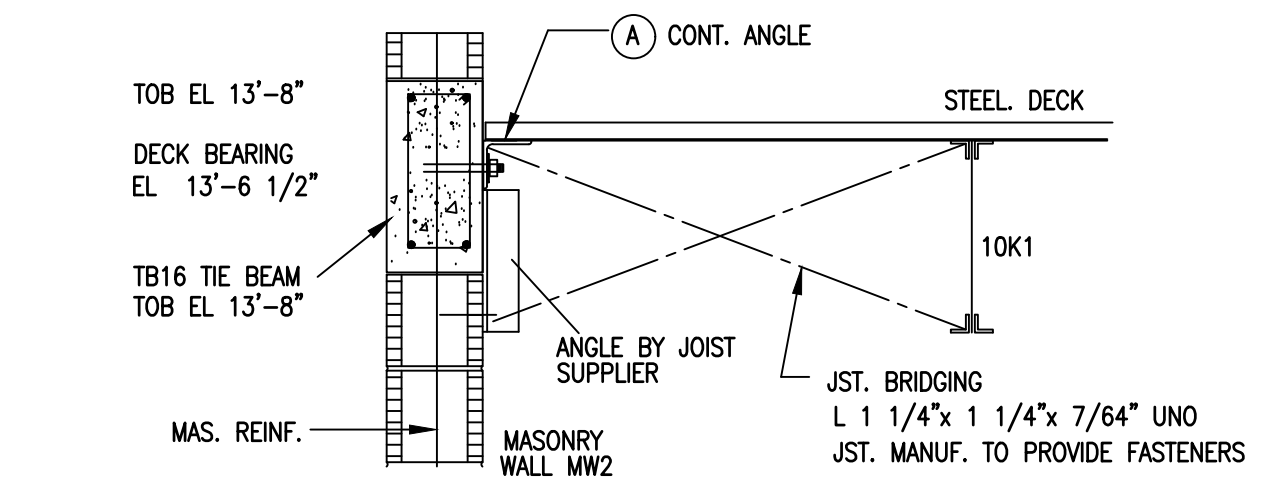
6 JOIST BRACING DETAIL NTS



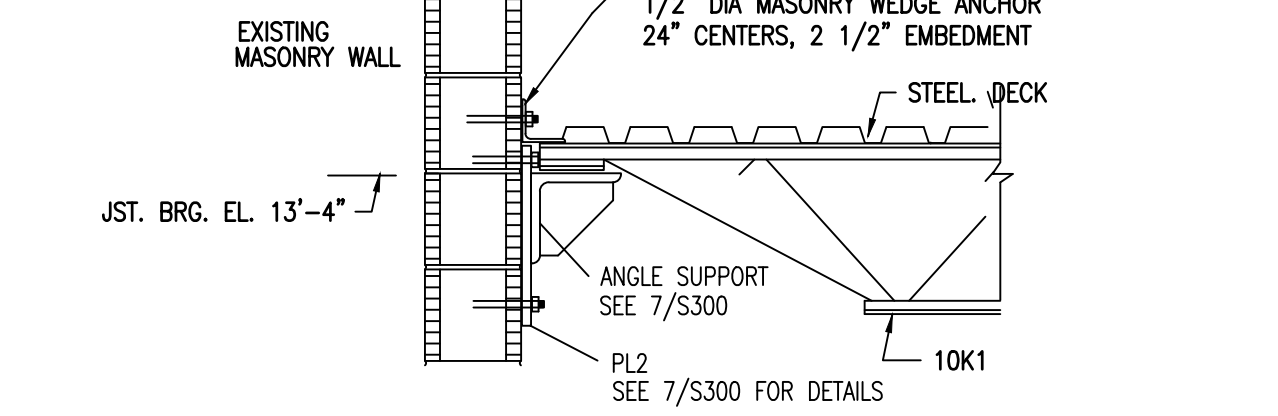
4 SECTION 3/4" = 1'-0"



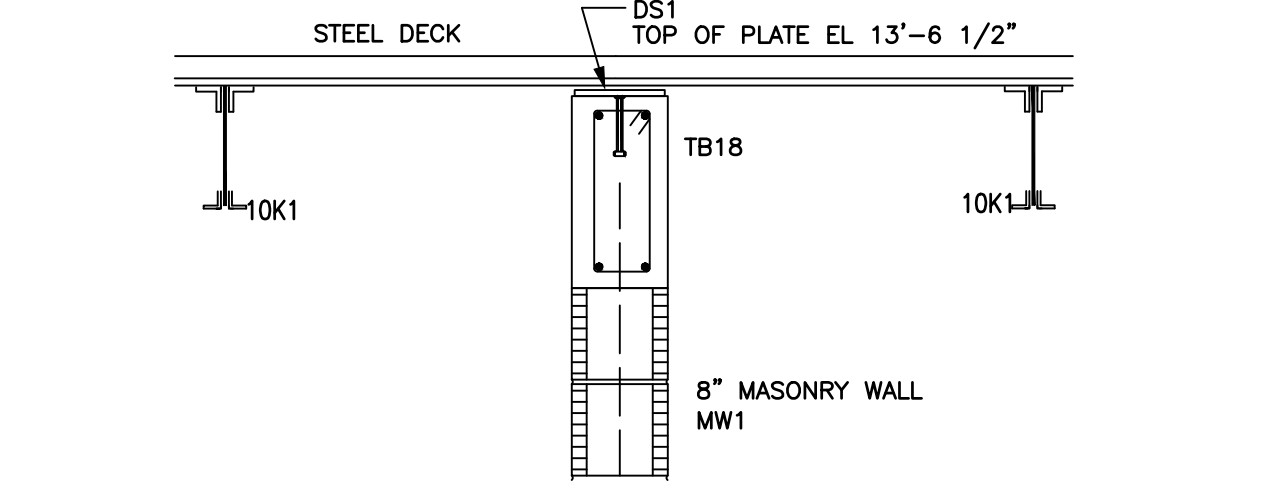
1 TYPICAL JOIST BEARING DETAILS (FLAT JOIST) 3/4" = 1'-0"



2 JOIST BRACING DETAIL NTS

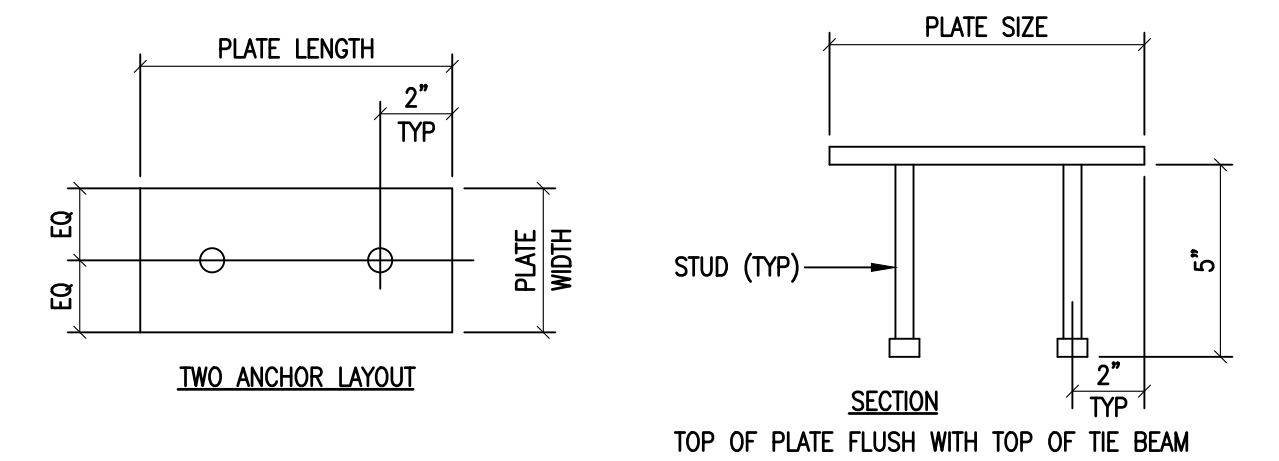


5 SECTION 3/4" = 1'-0"

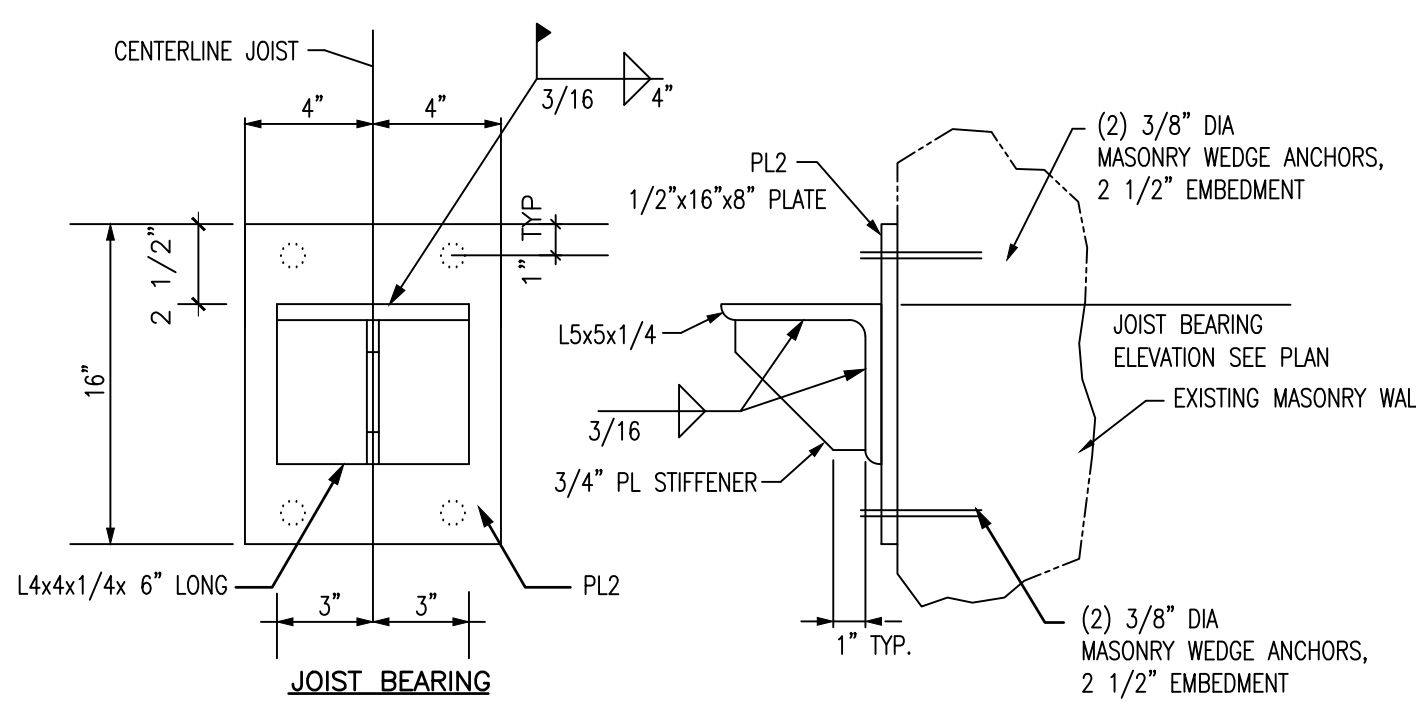


3 SECTION 3/4" = 1'-0"

BEARING PLATE SCHEDULE			
BEARING PLATE MARK	SIZE THK x W x L	NUMBER OF ANCHORS	REMARKS
BP1	3/8"x4"x8"	2	SINGLE BEARING K SERIES JOIST



8 JOIST BEARING PLATE SCHEDULE NTS



7 JOIST SUPPORT DETAILS NTS

7 JOIST SUPPORT DETAILS NTS

DEMOLITION GENERAL NOTES

- A. GENERAL AND ALL SUB-CONTRACTORS, SHALL VISIT THE SITE AND PRECISELY EXAMINE THE EXISTING STRUCTURE, SURFACES, CONDITIONS AND EXTENT OF WORK INVOLVED. AFTER EXAMINATION A DEMOLITION SCHEDULE SHALL BE PREPARED AND SUBMITTED IN WRITING TO THE OWNER AND THE ARCHITECT FOR THEIR APPROVAL PRIOR TO THE COMMENCEMENT OF ANY WORK.
- B. CONTRACTOR(S) ARE RESPONSIBLE FOR VERIFYING THE EXTENT OF DEMOLITION WITH THE INSTALLATION OF NEW SYSTEMS AND FINISHES INDICATED IN THE CONTRACT DOCUMENTS. REFER TO THE NEW CONSTRUCTION DRAWINGS FOR DEMOLITION REQUIRED, BUT SHOWN ON DEMOLITION PLANS.
- C. ALL CONTRACTOR(S) SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND MUNICIPAL ORDINANCES.
- D. EXECUTE ALL DEMOLITION WORK IN AN ORDERLY AND CAREFUL MANNER WITH DUE CONSIDERATION FOR ANY EXISTING STRUCTURE. EXTREME CAUTION SHALL BE EXERCISED TO ENSURE THAT NO DAMAGE OCCURS ABSOLUTELY TO ANY OF THE EXISTING EQUIPMENT, FURNITURE, OR EXISTING STRUCTURE TO REMAIN. WORK SHALL BE CONFINED EXCLUSIVELY WITHIN THE BUILDING BOUNDARY IDENTIFIED. DEMOLITION CONTRACTOR SHALL REPLACE OR REPAIR ANY DAMAGE TO ADJOINING SURFACES, FINISHES OR STRUCTURE CAUSED BY CONSTRUCTION OPERATIONS.(ACTIVITY)
- E. ANY EXISTING ACTIVE UTILITY SERVICE LINES, INDICATED OR NOT, SHALL BE PROTECTED FROM DEMOLITION OR DAMAGE. DISCONNECT ANY ELECTRIC, TELEPHONE, GAS, WATER, OR OTHER UTILITY LINES SERVICING THE STRUCTURE ACCORDING TO THE EXISTING RULES & REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION. PRIOR TO DISCONNECTING ANY UTILITY SERVICE LINE, NOTIFY OWNER AND COORDINATE THE TIME WITH THE OWNER'S SCHEDULE.
- F. "FLOORING" DENOTES FLOOR COVERING MATERIALS, INCLUDING ADHESIVES, DOWN TO, BUT EXCLUSIVE OF FLOOR SLABS, STRUCTURAL SLABS, AND STRUCTURAL SYSTEMS, UNLESS NOTED OTHERWISE.
- G. WALLS TO BE REMOVED SHALL BE REMOVED TO A POINT 2" MINIMUM BELOW THE EXISTING FLOOR SLAB UNLESS SETTING ON THE SLAB OR AS SPECIFICALLY NOTED. PATCH WITH NEW CONCRETE TO BE FLUSH WITH THE EXISTING FLOOR SLAB.
- H. ALL MATERIAL REMOVED UNDER THIS CONTRACT, WHICH IS NOT TO BE SALVAGED OR REUSED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE SITE. TO CONVEY MATERIALS, USE MOVABLE, COVERED, DEBRIS BOXES. DO NOT STORE/PERMIT DEBRIS TO ACCUMULATE ON SITE.
- I. WHERE PORTIONS OF THE EXISTING STRUCTURE ARE TO BE REMOVED, PROVIDE BRACING AS REQUIRED TO PROPERLY SUPPORT THE REMAINING STRUCTURE UNTIL THE NEW CONSTRUCTION HAS BEEN INSTALLED AND ADEQUATELY BRACED.
- J. ANY MATERIALS SPECIFIED TO BE REUSED BY THE OWNER SHALL BE CAREFULLY REMOVED, PROTECTED & STORED AT THE OWNER'S DIRECTION.
- K. AFTER THE DEMOLITION OF MATERIALS, THE RESULTING EXPOSED SURFACES SHALL BE SMOOTH AND FLUSH AND TO BLEND SEAMLESSLY WITH THE EXISTING CONDITIONS. PATCH, REPAIR, AND REPLACE SURFACES AS REQUIRED.
- L. UPON COMPLETION OF DEMOLITION WORK, ADJACENT AREAS AND THE PROPERTY SHALL BE LEFT CLEAN AND SATISFACTORY TO THE LOCAL AUTHORITIES, THE OWNER, AND THE ARCHITECT. IN ADDITION TO DAILY CLEANING OF THE SITE.
- M. GENERAL CONTRACTOR SHALL VERIFY THE EXISTING UNDER SLAB ELECTRICAL AND OTHER UTILITY SERVICE IN AREAS OF SLAB DEMOLITION. VERIFICATION METHODS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR WHO SHALL COORDINATE WITH THE OWNER IF ANY UTILITY SERVICES FOUND TO BE IN CONFLICT. GENERAL CONTRACTOR SHALL COORDINATE UTILITY SERVICE SHUT DOWN WITH THE OWNER PRIOR TO DEMOLITION.
- N. AREA DESIGNATED AS OWNER-OCCUPIED DURING CONSTRUCTION PERIOD SHALL HAVE ALL BUILDING SERVICES MAINTAINED WITHOUT INTERRUPTION EXCEPT AS REQUIRED FOR CONSTRUCTION AND WITH PRIOR APPROVAL BY THE OWNER. SCHEDULE SUCH DOWN TIME WITH OWNER 72 HOURS IN ADVANCE.
- O. BUILDING EXIT ACCESS, AND ALL LIFE SAFETY DEVICES SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE AREA DESIGNATED AS OWNER-OCCUPIED DURING THE CONSTRUCTION PERIOD.
- P. "COMPLETELY" DENOTES TOTAL REMOVAL OF ALL ITEMS INDICATED FOR DEMOLITION, INCLUDING BUT NOT LIMITED TO DOORS, FRAMES, WINDOWS, MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS.
- Q. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DWGS FOR ADDITIONAL DEMOLITION NOTES.
- R. NO REMOVAL OF HAZARDOUS MATERIALS IS ANTICIPATED, AND IS NOT INCLUDED IN SCOPE OF WORK. IN THE EVENT THAT ANY SUSPICIOUS MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION, IMMEDIATELY NOTIFY THE DISTRICT.

DEMOLITION CODED NOTES

- 01 COMPLETELY REMOVE EXISTING CONCRETE FOOTER.
- 02 COMPLETELY REMOVE EXISTING ALUMINUM COVERED WALKWAY COLUMN.
- 03 COMPLETELY REMOVE SECTION OF CONCRETE SLAB SIDEWALK.
- 04 COMPLETELY REMOVE SECTION OF ALUMINUM COVERED WALKWAY COVER.
- 05 COMPLETELY REMOVE EXISTING DOORS AND SIDELITES. DEMOLISH ALL ASSOCIATED FRAMES, PATCH AND REPAIR WALLS DAMAGED DURING DEMOLITION.
- 06 COMPLETELY DEMOLISH SECTION OF ROOF OVERHANG.
- 07 COMPLETELY REMOVE EXISTING WINDOW AND FRAME
- 08 CAREFULLY REMOVE EXISTING WALL PLAQUE TO BE RELOCATED PER DISTRICT DIRECTION.
- 09 UNDERGROUND STORM DRAINAGE IS ANTICIPATED IN THIS AREA. REMOVE EXISTING MATERIALS WHERE INDICATED, AND PREPARE FOR NEW TIE-IN TO NEW AND EXISTING ROOF DRAINS
- 10 PROVIDE NEW TIE-IN TO NEW AND EXISTING ROOF DRAINS. COORDINATE W/ BUILDING FOUNDATION & EXISTING DRAINAGE STRUCTURES

宋
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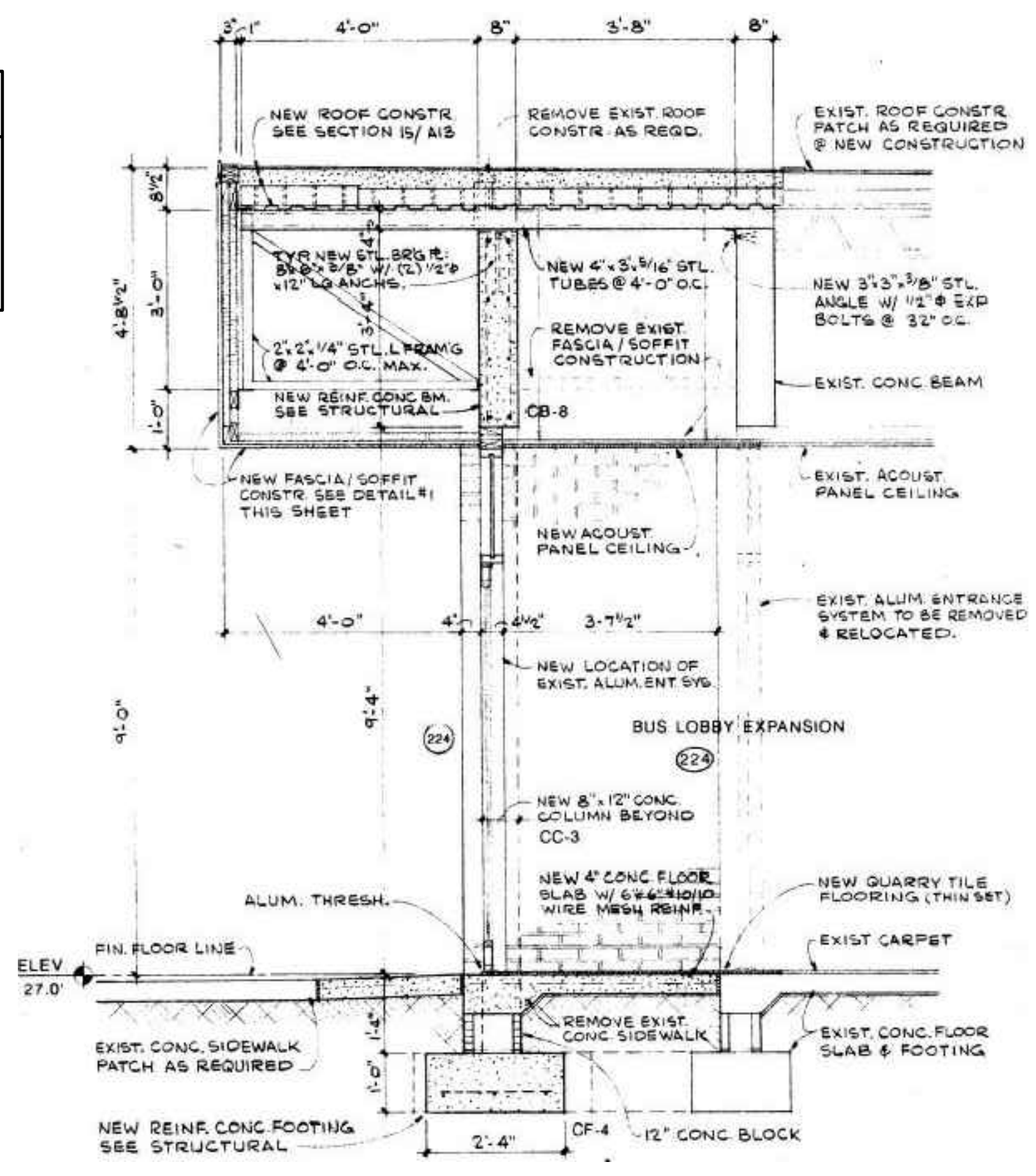
Seal:

Name: PERRY DOUGLASS
License #: AR 97112

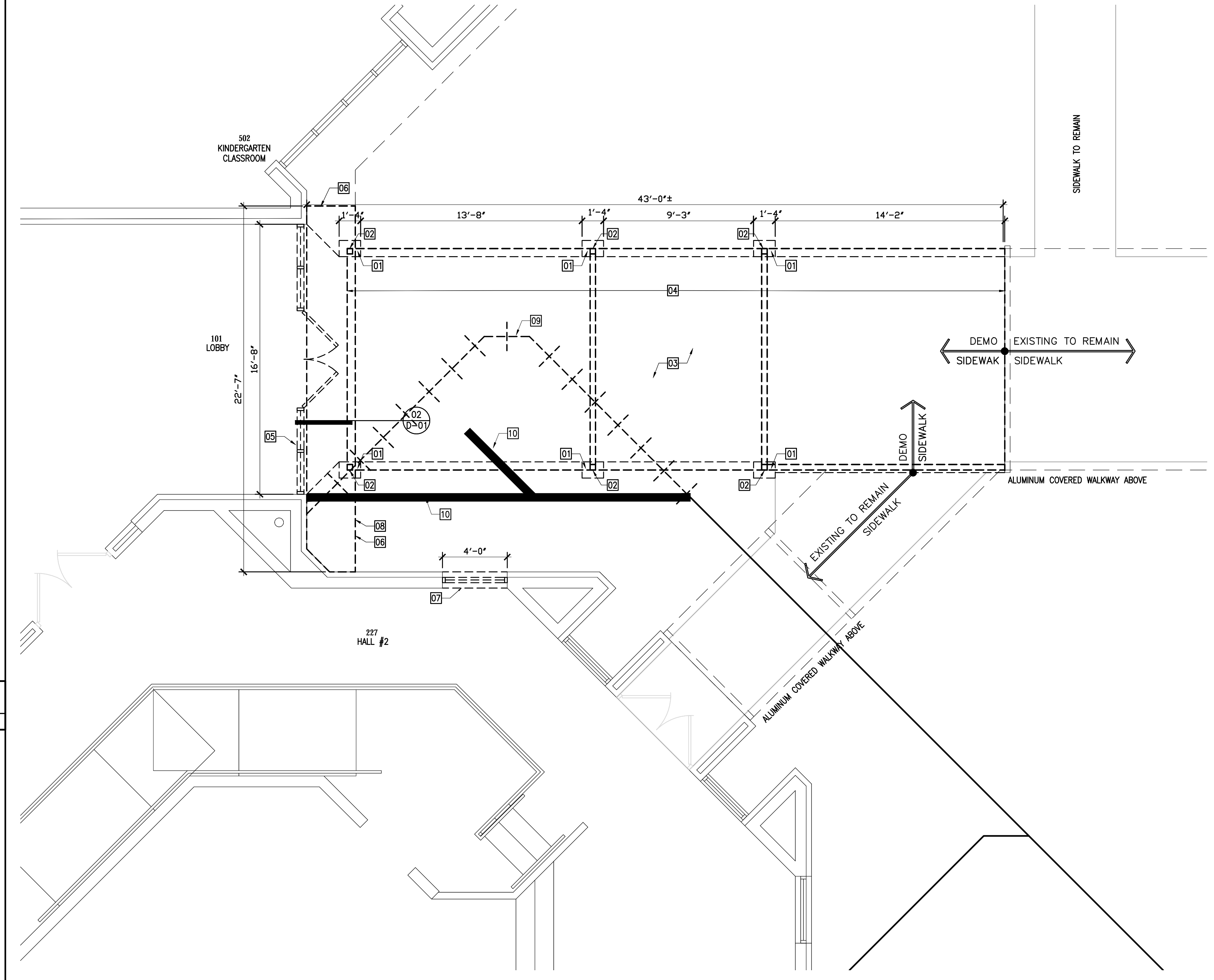
Consultants:

REFERENCE ONLY

THIS DETAIL IS A REPRODUCTION OF THE RECORD DOCUMENTS FOR THIS FACILITY AND MAY NOT REPRESENT ACTUAL EXISTING CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

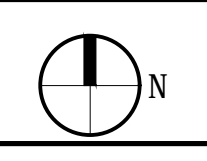


EXISTING OVERHANG/ WALL DETAIL (REFERENCE) 02
N.T.S.



DEMOLITION FLOOR PLAN

01
1/4"=1'-0"



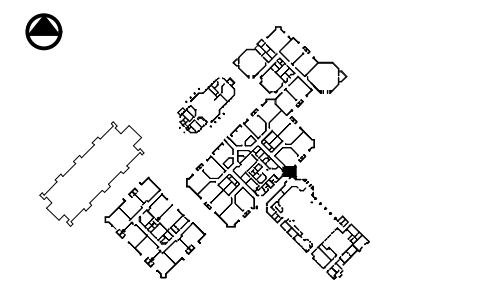
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Revisions:

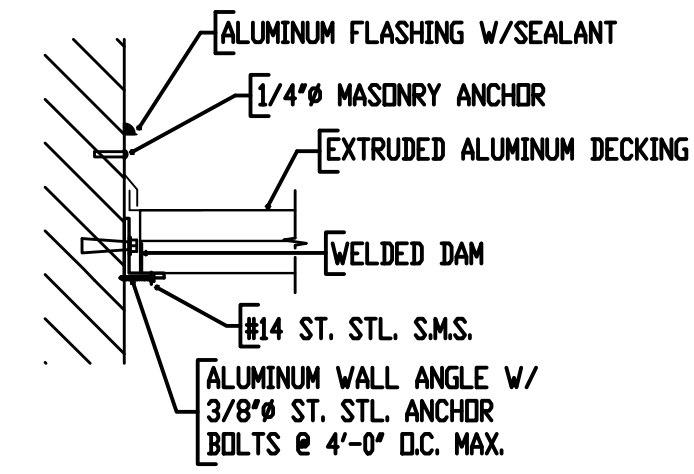
Date: 01/10/2019
S+A Project No: 18031
Owner Project No:
Drawn By: PD
Checked By: PD
Phase: 80% CONSTRUCTION DOCUMENTS

Sheet Title: **DEMOLITION FLOOR PLAN**

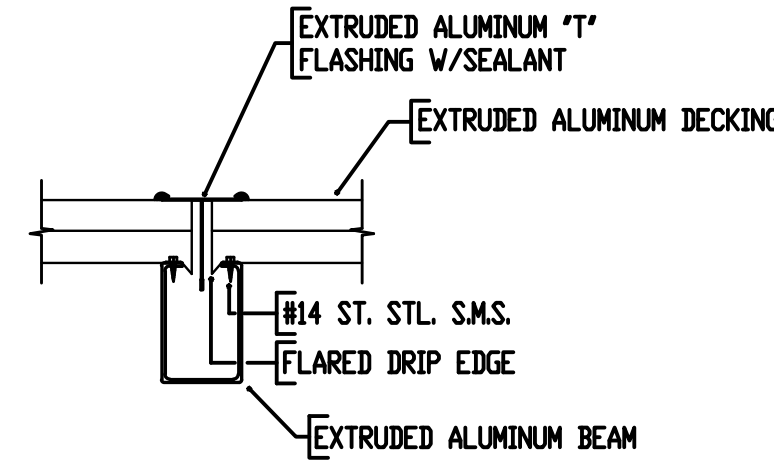
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GENERAL NOTES

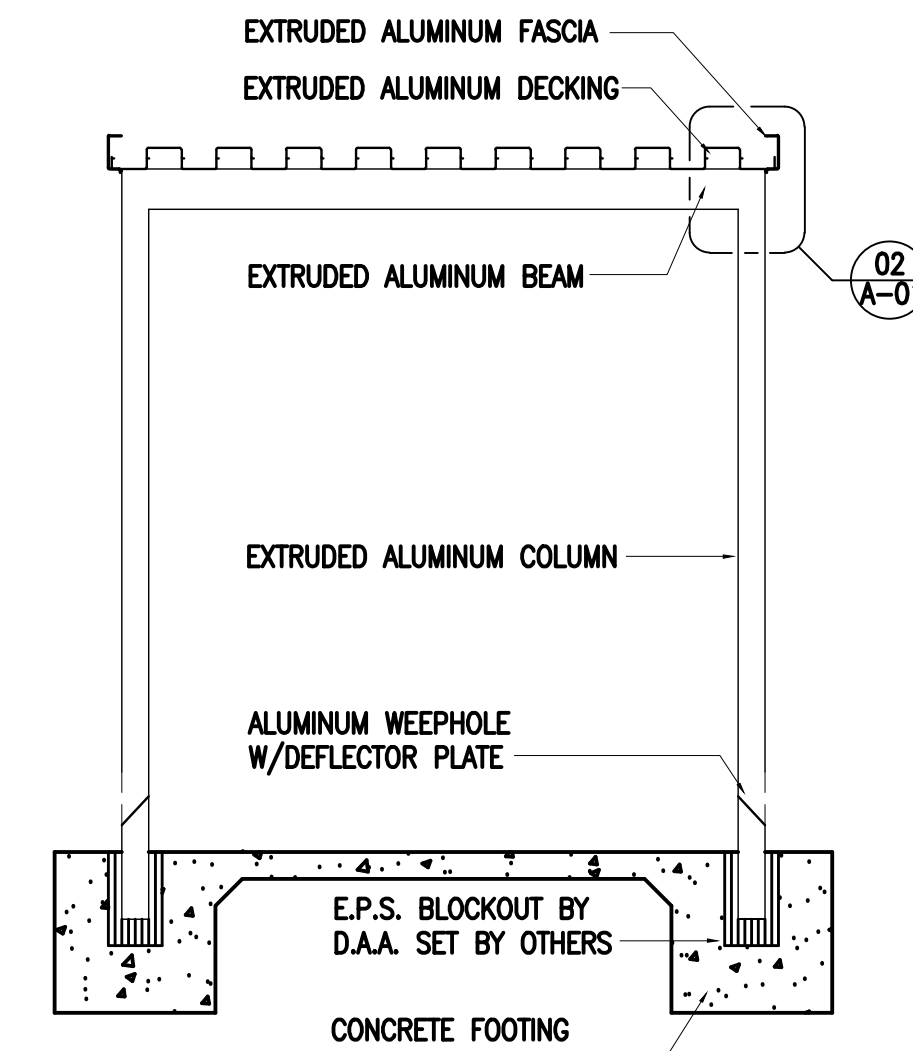
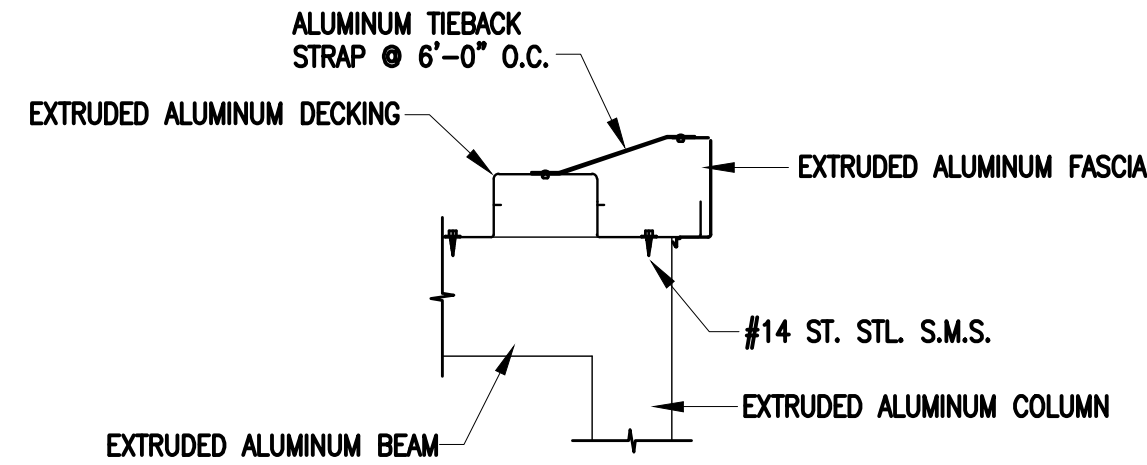
1. THE CONTRACTOR AND C/M ARE SYNONYMOUS.
2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION ACTIVITY FOR DIG PERMITS, ELECTRICAL PERMITS OR OTHER PERMITS AS APPLICABLE. CONTRACTOR IS ALSO TO COORDINATE FULLY WITH UTILITY COMPANIES ON EXACT LOCATION OF UNDERGROUND UTILITIES AND ANY UTILITY ADJUSTMENT REQUIRED. UTILITY COMPANIES SHALL BE NOTIFIED A MINIMUM OF THREE WORKING DAYS PRIOR TO EXCAVATION.
3. THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS WERE DERIVED FROM RECORD DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THE LOCATION OF EXISTING UTILITIES TO DETERMINE IF THERE ARE ANY CONFLICTS WITH THE PROPOSED CONSTRUCTION AND TO COORDINATE WITH THE UTILITY OWNERS TO RESOLVE THESE CONFLICTS.
4. ANY DIFFERING SITE CONDITIONS FROM THAT WHICH IS REPRESENTED HEREON, WHETHER ABOVE, ON OR BELOW THE SURFACE OF THE GROUND, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER, IN WRITING, PER CONTRACT DOCUMENTS. NO CLAIM FOR EXPENSES INCURRED BY THE CONTRACTOR DUE TO SUCH DIFFERING CONDITIONS WILL BE ALLOWED IF HE OR SHE FAILS TO PROVIDE THE WRITTEN NOTIFICATION.
5. ALL MATERIALS, INSTALLATION AND TESTING SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS ALONG WITH INDIAN RIVER COUNTY AND FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. WHERE THE SPECIFICATIONS CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL APPLY.
6. THE CONTRACTOR SHALL PROVIDE ALL SHEETING, SHORING AND BRACING REQUIRED TO PROTECT ADJACENT STRUCTURES AND UTILITIES OR MINIMIZE TRENCH WIDTH AS REQUIRED. SHEETING AND SHORING SHALL BE DESIGNED BY A STATE OF FLORIDA PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR.
7. THE CONTRACTOR SHALL ENSURE THAT ALL REQUIRED CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCING WORK.
8. ALL DEBRIS AND WASTE MATERIALS GENERATED BY DEMOLITION OR SUBSEQUENT CONSTRUCTION ACTIVITIES SHALL BE DISPOSED OFF-SITE IN A LEGAL MANNER AT AN APPROVED DISPOSAL FACILITY.
9. THE CONTRACTOR SHALL OBTAIN ANY AND ALL PERMITS REQUIRED FOR DEMOLITION, CONSTRUCTION WORK AND HAULING WASTE MATERIAL. ALL ASSOCIATED COSTS AND PERMIT FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
10. ANY PUBLIC LAND CORNER, WITHIN THE LIMITS OF CONSTRUCTION, IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING ALTERED AND HAS NOT YET BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT WITHOUT DELAY.
11. COORDINATE VALUES ARE BASED ON A LOCAL GRID ESTABLISHED BY THE SURVEY.
12. ALL REFERENCES TO PROPOSED CONSTRUCTION INDICATES CONSTRUCTION INCLUDED IN THIS CONTRACT.
13. ALL PIPING TO HAVE A MINIMUM OF THREE (3) FEET COVER UNLESS OTHERWISE NOTED ON PLANS.
14. MAINTENANCE OF TRAFFIC: ACCESS FOR LOCAL TRAFFIC SHALL BE MAINTAINED. IF, DURING CONSTRUCTION, ACCESS FOR LOCAL TRAFFIC IS CHANGED, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE JURISDICTIONAL AGENCY A MINIMUM OF THREE (3) WORKING DAYS IN ADVANCE. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH INDEX NO. 600 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS AND ORANGE COUNTY.
15. ALL STORM, SANITARY AND WATER INSTALLATION NOT LOCATED ON PUBLIC R.O.W. OR DEEDED EASEMENTS SHALL COMPLY WITH FLORIDA BUILDING CODES-PLUMBING. CONTRACTOR IS PROHIBITED FROM USE OF VIBRATORY COMPACTION METHOD.
17. EXISTING SIDEWALKS ADJACENT TO NEW WORK ARE TO BE REPAIRED/REPLACED AS NEEDED TO ACCOMMODATE NEW WORK.
18. ALL GRADING AROUND NEW CONSTRUCTION IS TO SLOPE AWAY FROM THE BUILDING A MINIMUM OF 1/4" PER FOOT (5%) FOR A DISTANCE OF AT LEAST 5'.



TYPICAL END WALL MOUNT DETAIL
1 1/2"=1'-0"



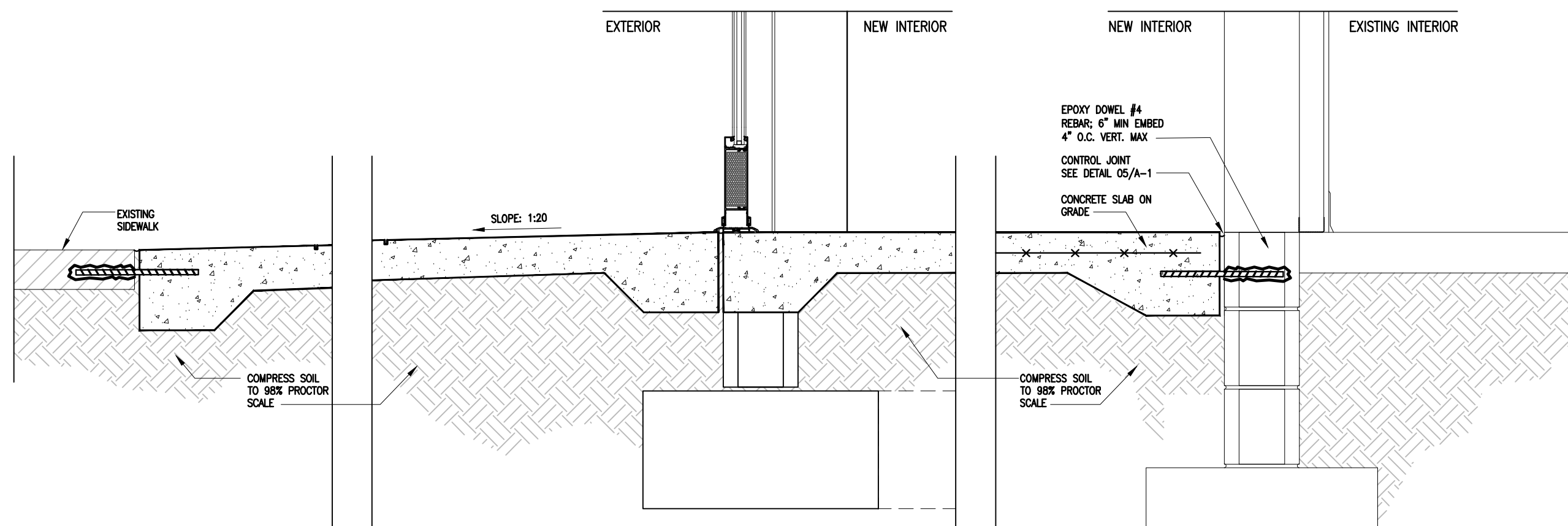
TYPICAL SECTION THRU GUTTER BEAM
1 1/2"=1'-0"



ALUMINUM COVERED WALKWAY DETAILS

02

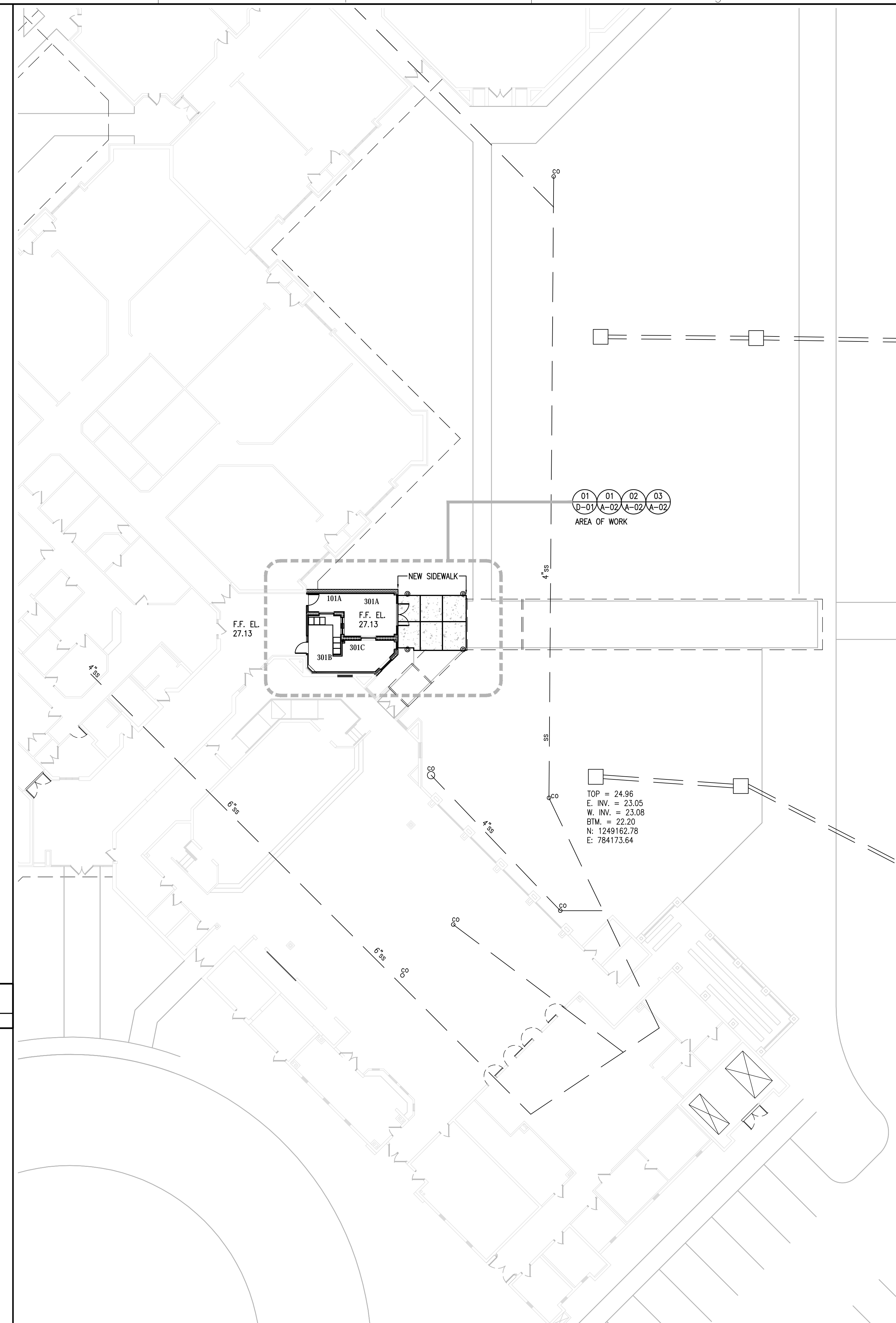
1"=1'-0"



CONCRETE SIDEWALK/SLAB DETAILS

02

1"=1'-0"



OVERALL FLOOR PLAN

01

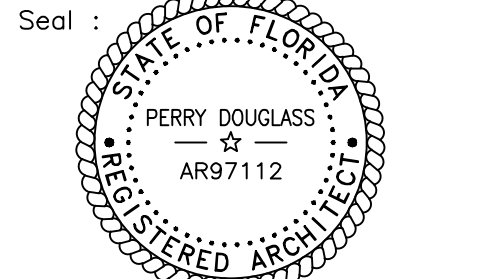
1/16"=1'-0"



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Consultants :

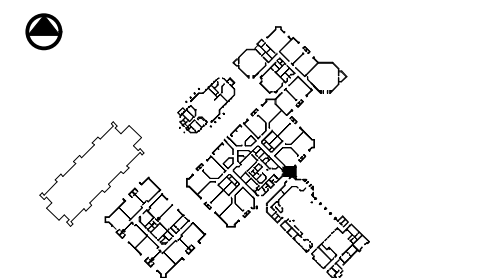
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Revisions :

Date : 01/10/2019

S+A Project No : 18031

Owner Project No :

Drawn By : PD

Checked By : PD

Phase :

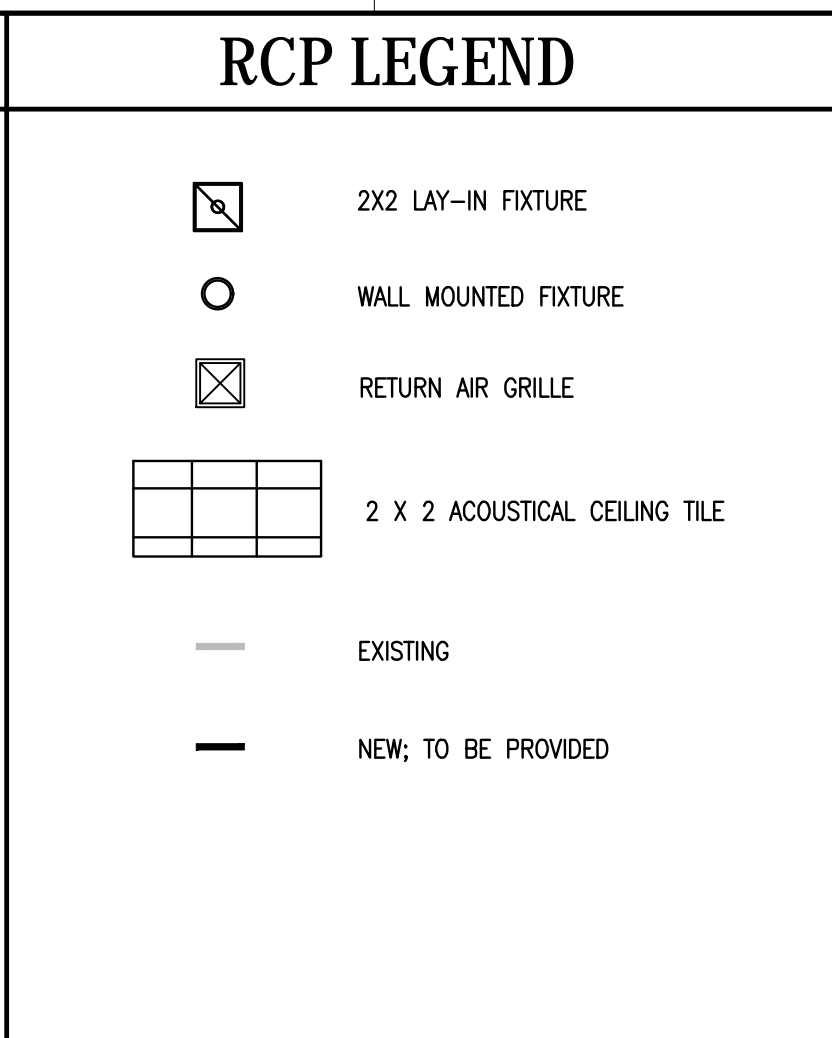
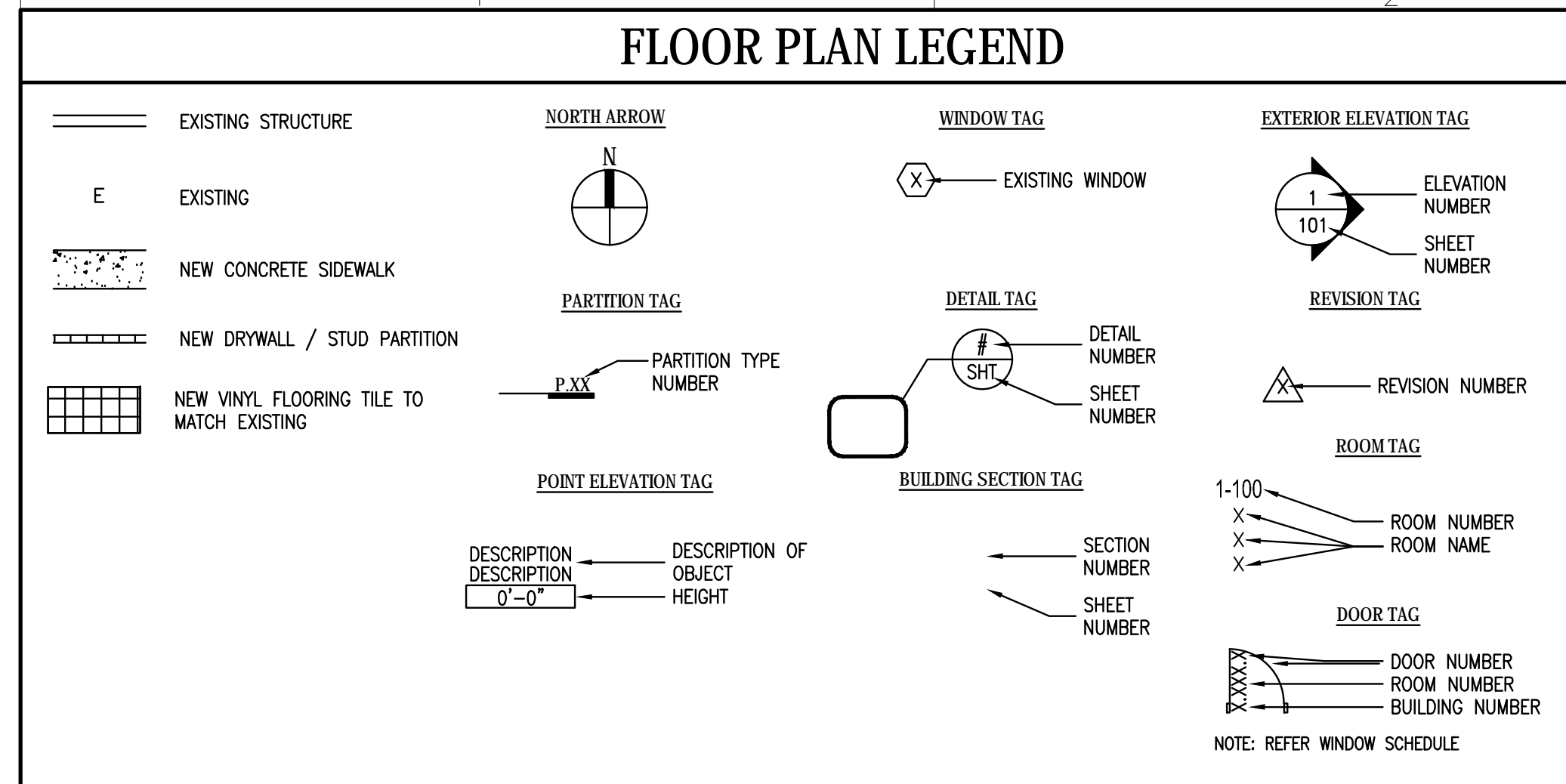
100% CONSTRUCTION DOCUMENTS

Sheet Title :

OVERALL FLOOR PLAN

Sheet # :

A-01



FLOOR PLAN CODED NOTES

- PATCH WALLS TO MATCH/BLEND SEAMLESSLY WITH EXISTING.
- PROVIDE NEW 20x20 FLOOR TILE AND BASE THROUGHOUT DISTURBED AREA.
 TILE: DALTILE MA90, OR APPROVED EQUAL. COLOR TO MATCH EXISTING GROUT: TEC POWER GROUT, COLOR-COFFEE PREMIUM THINSET. X200 INTERIOR/EXTERIOR RATED MODIFIED LATEX.
- REFER TO A-221 FOR NEW RECEPTION CASEWORK DETAILS.

RCP CODED NOTES

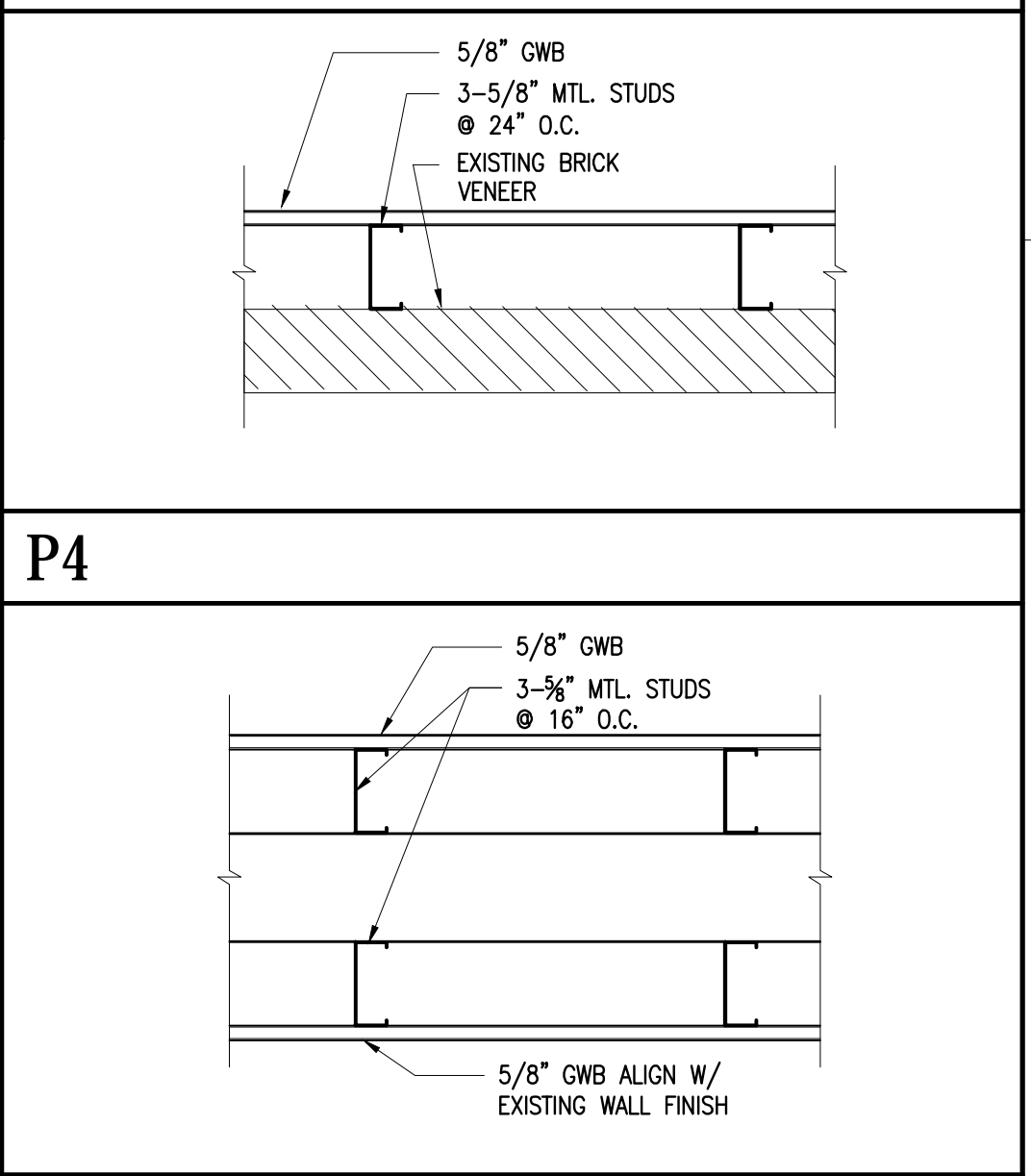
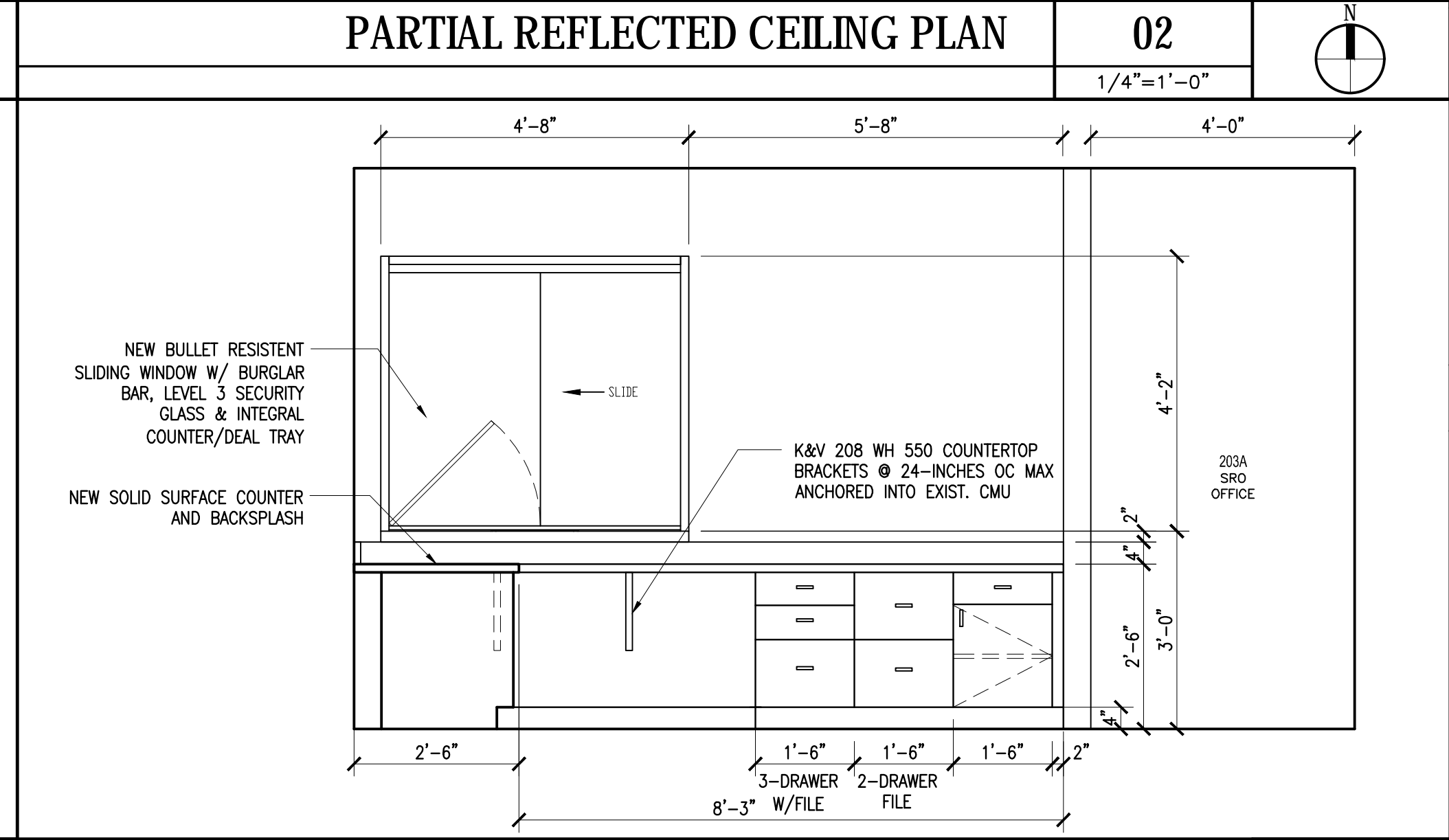
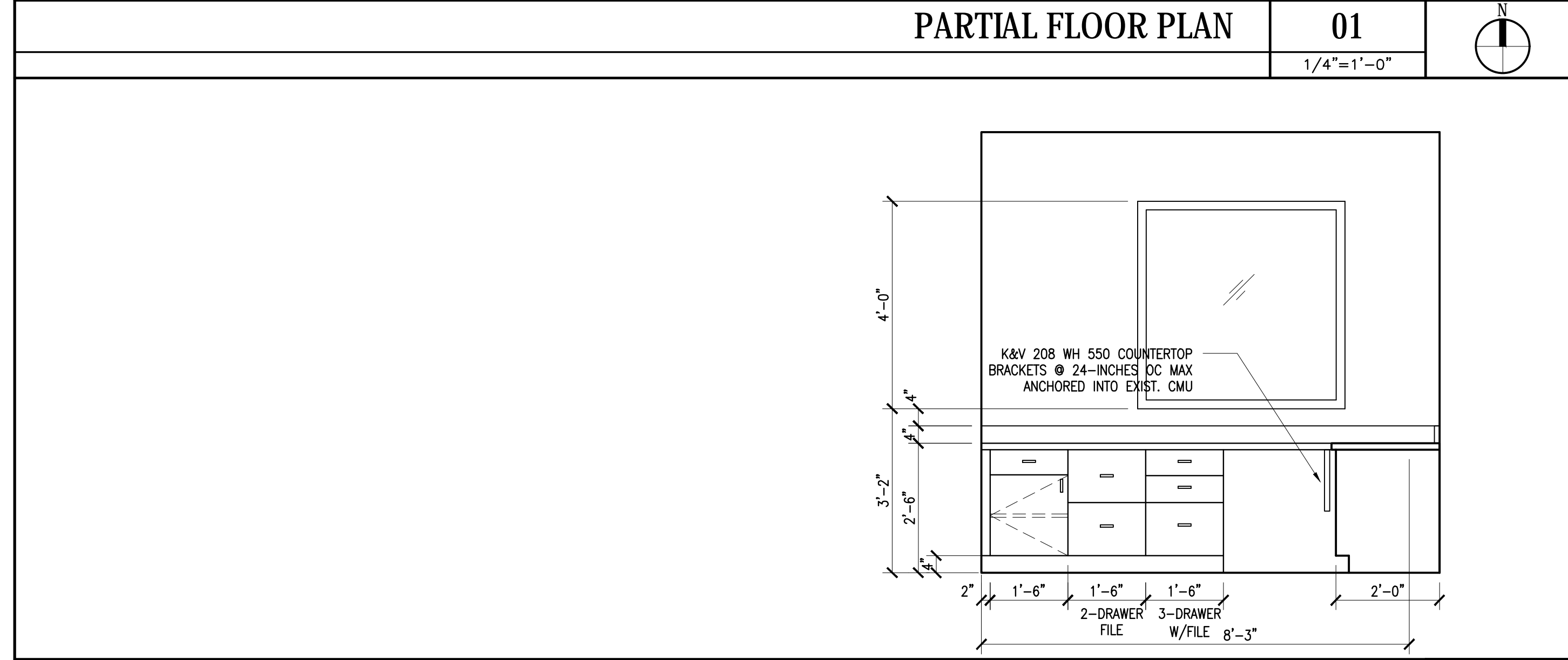
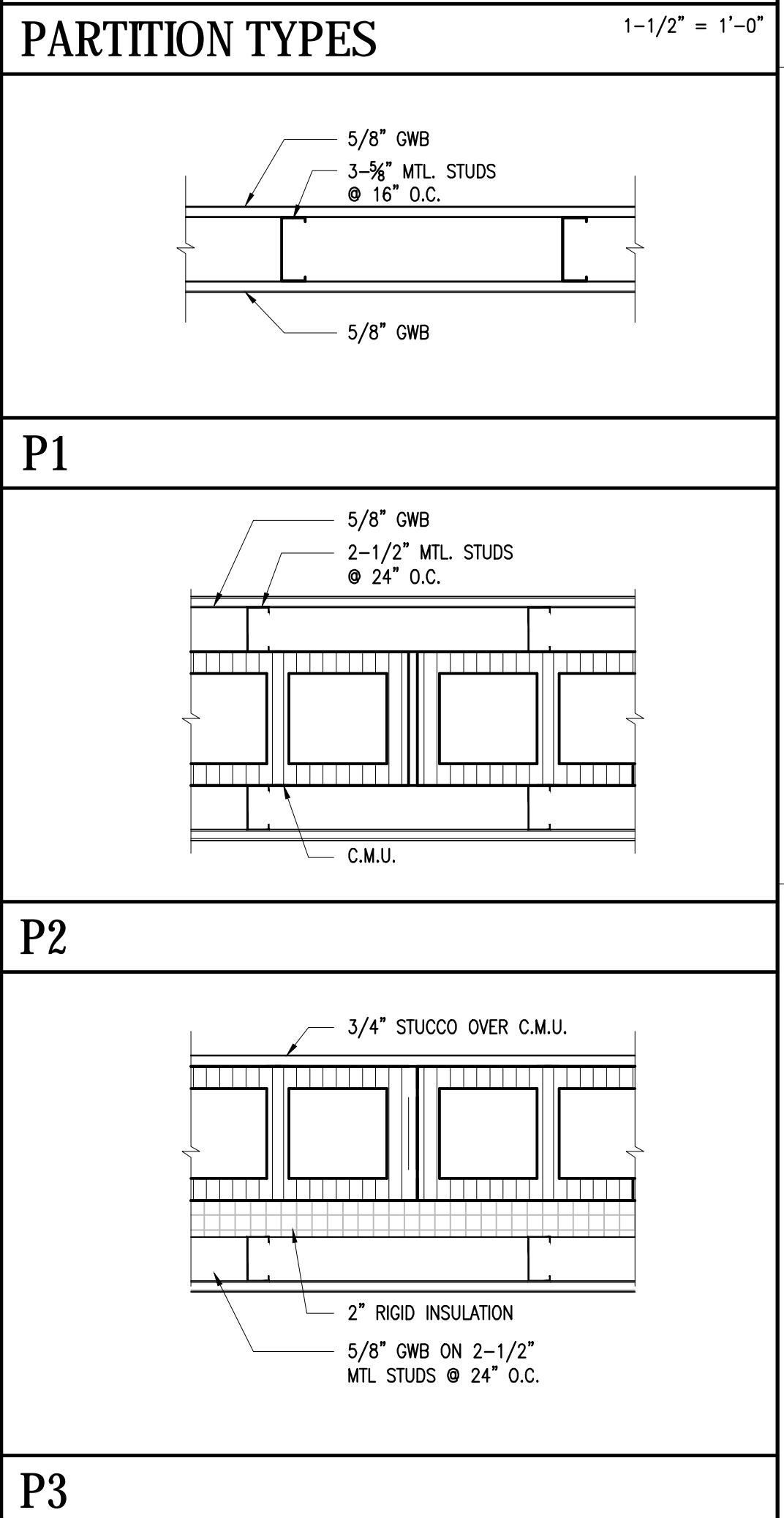
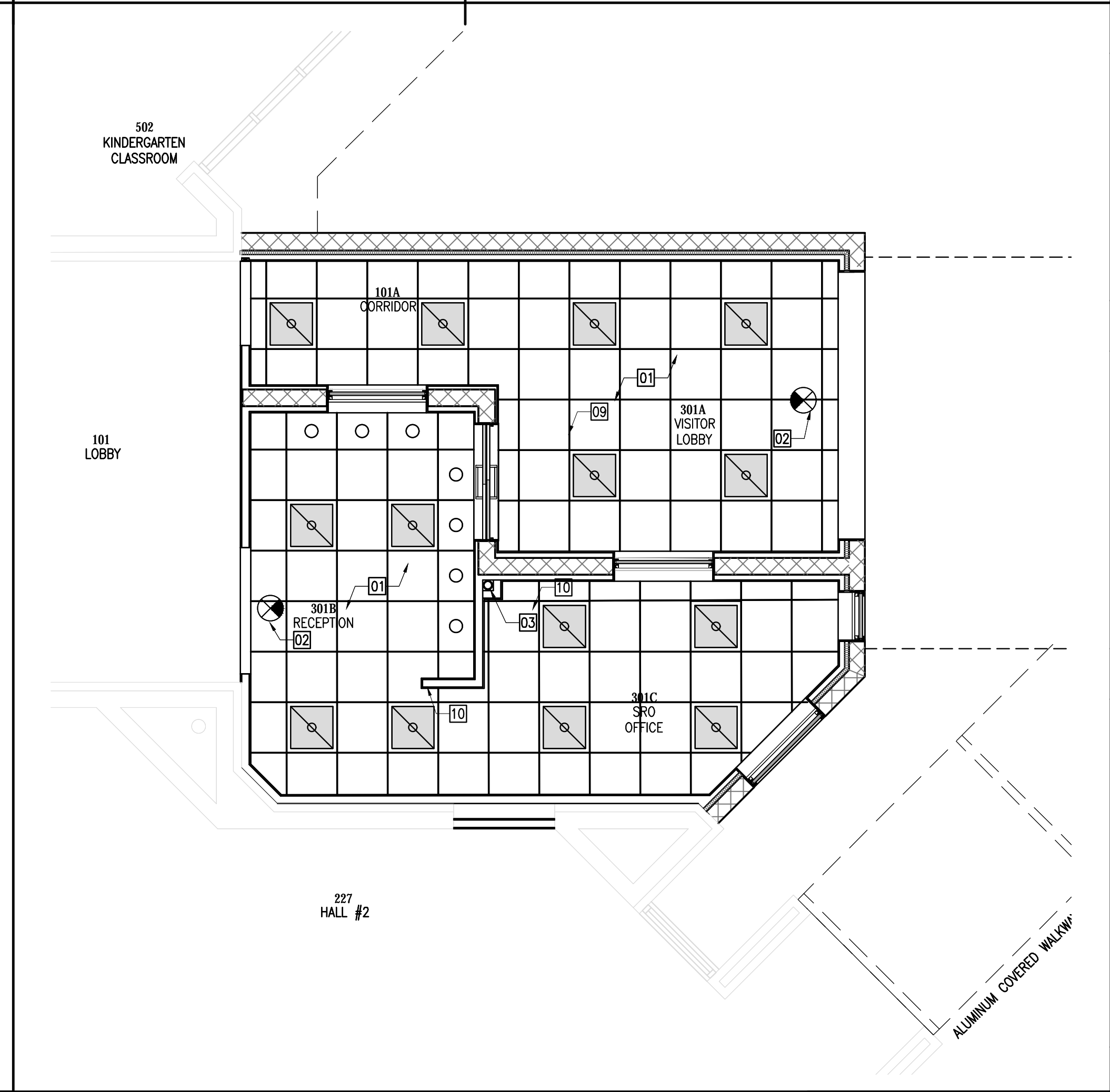
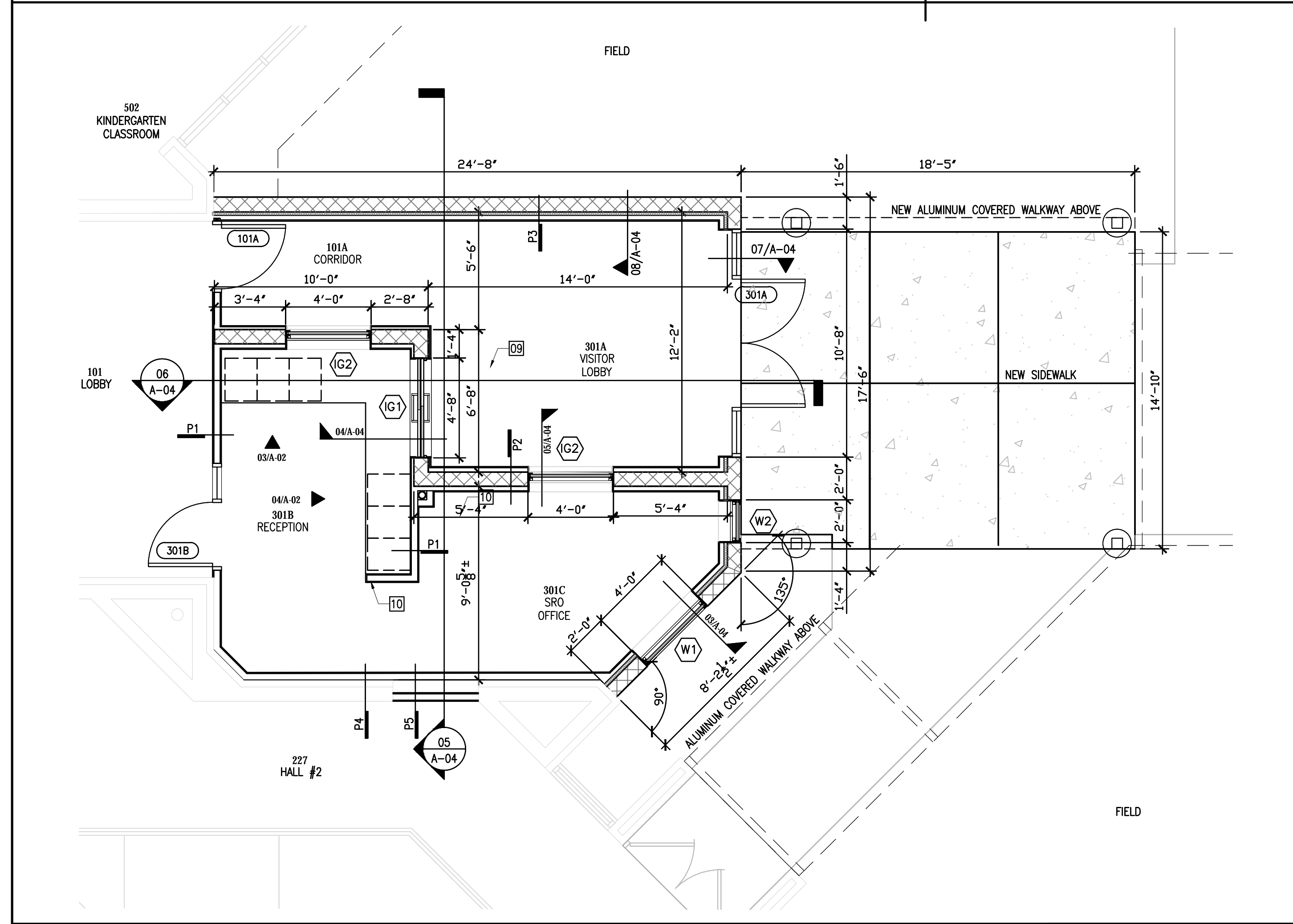
- PROVIDE NEW ACT AND GRID SYSTEM THROUGHOUT THIS AREA.
- NEW ILLUMINATED EMERGENCY EXIT SIGNS
- NEW CHASE WALL

FLOOR PLAN GENERAL NOTES:

- THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR ANY INCONSISTENCIES.
- ALL DIMENSIONS FOR NEW WORK ARE TO FACE OF FINISH AND CENTERLINES OF COLUMNS, UNLESS OTHERWISE INDICATED. ALL DIMENSIONS TO EXISTING ARE TO FACE OF FINISH UNLESS OTHERWISE INDICATED. DIMENSIONS TAKE PRECEDENCE OVER SCALING OF DRAWINGS.
- INSTALL TYPICAL PARTITION TYPE P-1 (REFER TO SHEET A-221) FOR ALL NEW PARTITIONS UNLESS OTHERWISE INDICATED.
- ALL WOOD IN DIRECT CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED.
- PROVIDE ALL REQUIRED BLOCKING AS NEEDED FOR BUILT IN CASEWORK, EQUIPMENT SUPPORTS, TOILET ACCESSORIES, ETC. COORDINATE WITH ALL TRADES AS REQUIRED. PROVIDE G-185 COATING FOR PT WOOD ANCHORS.
- VERIFY SIZES OF ALL OWNER PROVIDED EQUIPMENT AND COORDINATE ALL OPENINGS, CLEARANCES, ELECTRICAL AND MECHANICAL REQUIREMENTS WITH THE OWNER PRIOR TO INSTALLATION.
- UPON COMPLETION OF THE WORK, PROPERTY AND ADJACENT AREAS SHALL BE LEFT CLEAN AND SATISFACTORY TO THE OWNER AND THE ARCHITECT. CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, PATCHING AND FITTING OF ALL WORK IN A NEAT WORKMANLIKE MANNER. PROTECT ALL ADJACENT SURFACES FROM DAMAGE. PATCH AND REPAIR ALL WORK DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL OR BETTER CONDITION. WHERE NEW WORK ADJOINS EXISTING IN THE SAME PLANE, MATCH ADJACENT FINISHES, MATERIALS, TEXTURES, SHEEN, ETC.
- AT AREAS OF FLOOR SLAB REPLACEMENT (DUE TO DEMOLITION), PROVIDE VAPOR BARRIER SHEET, BACKFILL TRENCH, COMPACT AND REPLACE SLAB TO MATCH EXISTING ADJACENT IN ELEVATION, FINISH AND REINFORCEMENT.

RCP GENERAL NOTES:

- ALL CEILING HEIGHTS TO BE 9'-4" ABOVE FINISH FLOOR, UNLESS NOTED OTHERWISE.
- ALL FIXTURES AND DEVICES SHALL BE INSTALLED ON THE CENTERLINE OF CEILING TILE OR SPACE UNLESS OTHERWISE NOTED.
- ALL SOFFITS SHALL ALIGN WITH WALLS OR CORNERS AT ALL LOCATIONS WHERE SOFFITS MEET WALLS OR CORNERS AS TO PROVIDE A FLUSH FINISH.
- TAPE AND FINISH ALL INSIDE JOINTS.
- PROVIDE CORNER BEADS FOR ALL OUTSIDE JOINTS.
- CONTRACTOR TO COORDINATE ALL DISCIPLINES TO ENSURE ALL DUCTWORK, EQUIPMENT, FIXTURES, PIPES, CONDUITS, SUSPENSION AND ACOUSTIC SYSTEMS NECESSARY TO MAINTAIN CEILING ELEVATIONS.
- CONTRACTOR TO COORDINATE ALL DUCT LOCATIONS WITH OTHER TRADES. ARCHITECT TO REVIEW AND HAVE FINAL APPROVAL FOR ALL EXPOSED CEILING SURFACES.
- ALL EXTERIOR STUCCO CEILING FRAMING TO BE PROVIDED IN SHOP DRAWINGS BY SPECIALTY STRUCTURAL ENGINEER.
- ALIGN SOFFITS WITH EDGE OF WALLS, CORNERS AND FACE OF COLUMNS.
- WHERE ALL 2X4 LIGHT FIXTURES OCCUR IN THE CEILING GRID THE GRID SHALL BE SUPPORTED AT ALL (4) FOUR CORNERS WITH HANGER WIRE. LIGHTS SHALL BE MECHANICALLY FASTENED TO CEILING GRID BY CEILING SUBCONTRACTOR. "CLIPPED" LIGHT FIXTURES ARE NOT ALLOWED.
- SMALL ADJUSTMENTS (LESS THAN 12") TO CEILING GRIDS ARE PERMISSIBLE PER FIELD CONDITIONS TO MAINTAIN FULL CEILING TILES TO THE GREATEST EXTENT POSSIBLE AND THAT CUT TILES ARE TO THE LARGEST DIMENSION POSSIBLE.
- ANY AREAS WITH ARCHITECTURAL CEILINGS THAT HAVE EXPOSED CAPS AND POTENTIAL VIEWS ABOVE OR THROUGH THE ARCHITECTURAL CEILING, THE ENTIRE ABOVE CEILING SPACE SHALL BE PAINTED FLAT BLACK INCLUDING BUT NOT LIMITED TO DUCTWORK, HANGERS, STRAPS, CONDUIT, STRUCTURE, ETC.



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 Consultants:

School District of Indian River County

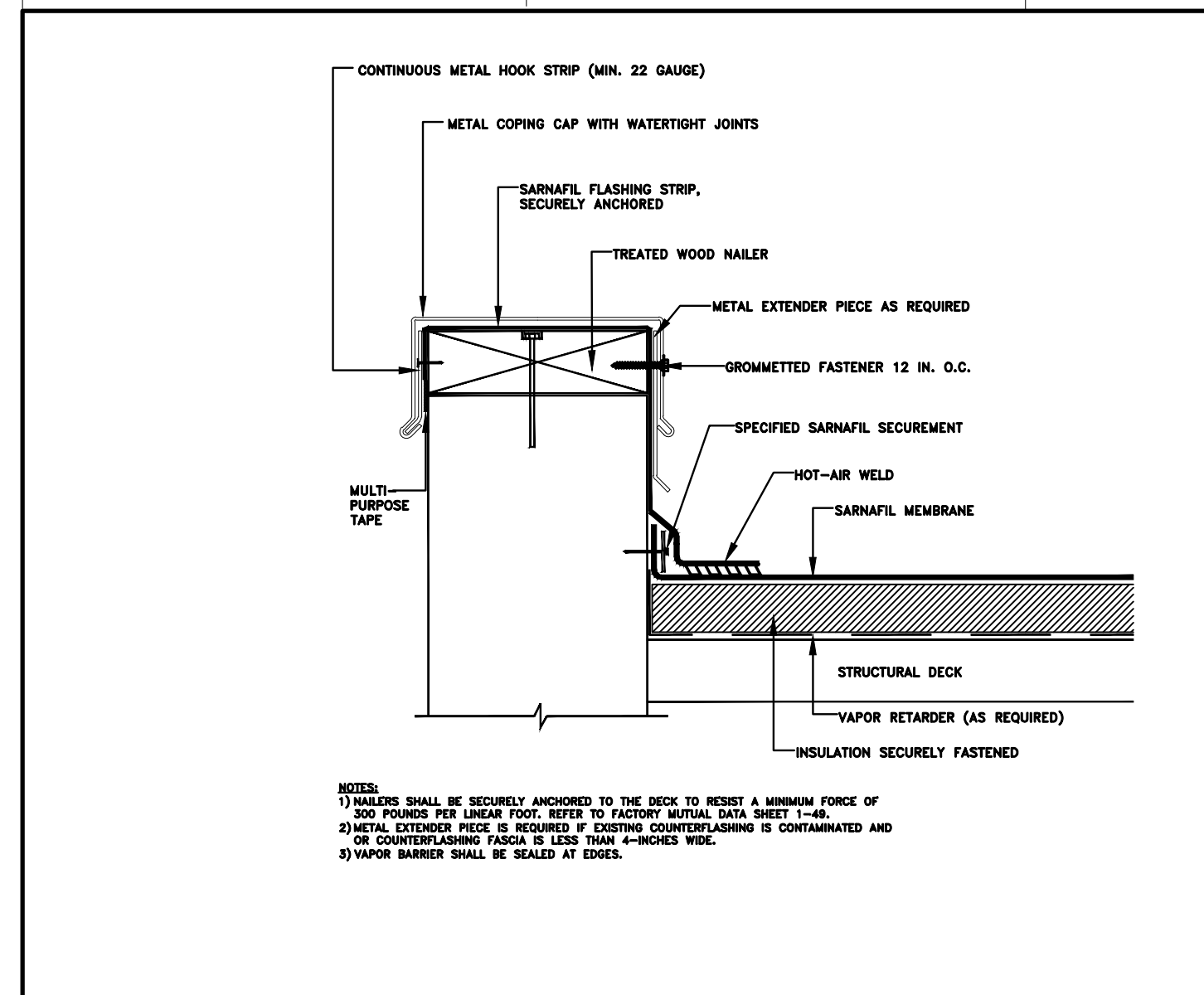
SINGLE POINT OF ENTRY RENOVATION
FELLSMERE ELEMENTARY SCHOOL
 50 N CYPRESS ST.
 FELLSMERE, FL 32948

Revisions:

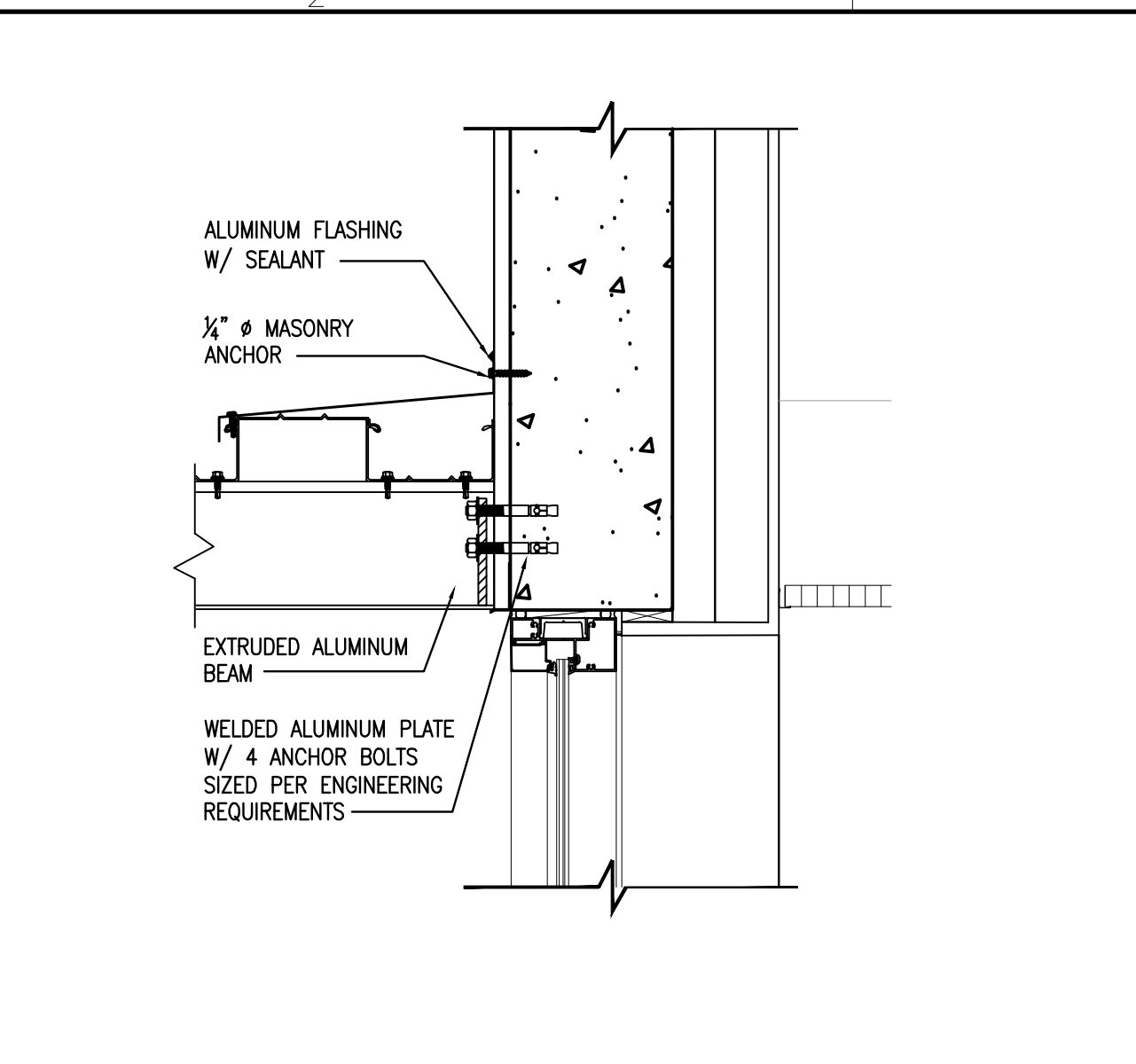
Date: 01/10/2019
 S+A Project No: 18031
 Owner Project No:
 Drawn By: PD
 Checked By: PD

Phase: 100% CONSTRUCTION DOCUMENTS

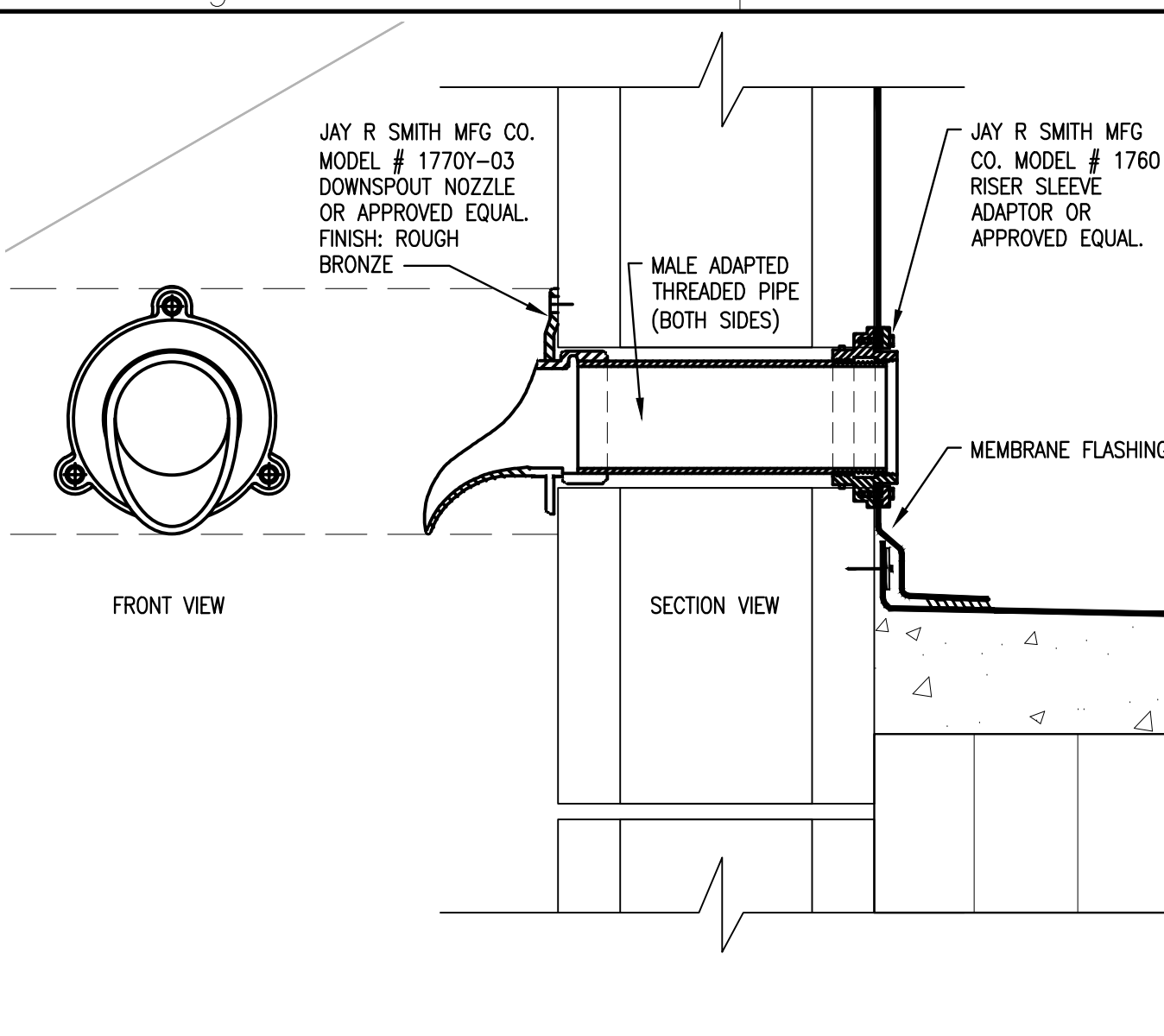
Sheet Title: FLOOR PLAN & RCP
 Sheet #: A-02



PARAPET/COPING CAP DETAIL 01
N.T.S.



ACW ATTACHMENT DETAIL 02
1-1/2"=1'-0"



OVERFLOW ROOF DRAIN DETAIL 03
3"=1'-0"

ROOF DRAINAGE CALCULATIONS - BLDG. 1 SPE. ADD. (1) PER FBC PLUMBING 2017, CH. 11 (2) BASED ON 5" RAINFALL PER HOUR (.052 GPM / SQ. FT.) (3) BASE ON 4" HEAD HEIGHT

ROOF DRAIN PROJECTED AREA					VERTICAL CONDUCTORS					
ROOF AREA NO.	ROOF AREA SF.	PARAPET (% OF AREA)	TOTAL PROJECTED AREA	GPM REQUIRED	PRIMARY RWL / INTERNAL DRAINS CALCULATIONS			SECONDARY OVERFLOW RWL / INTERNAL DRAINS CALCULATIONS		
					SIZE	# OF CONDUCTORS	GPM PROVIDED FOR	SIZE	# OF CONDUCTORS	GPM PROVIDED FOR
RA-1A	501	124	624	33	3"	1	87	3"	1	87

DESIGN CRITERIA AS PER FBC 2017:
 ROOF DEAD LOAD = 20 PSF ROOF LIVE LOAD = 30 PSF
 WIND LOAD PER FBC 2017 AND ASCE 7-10:
 ULTIMATE WIND SPEED = 170 MPH (132 MPH ASD)
 RISK CATEGORY III/V WIND EXPOSURE CATEGORY "C"
 ENCLOSED BUILDING INTERNAL PRESSURE COEFFICIENT = +/- 0.18
 WIND DIRECTIONALITY FACTOR Kd = 0.85
 WIND ZONE WIDTH 'd' = 7'-3"

MEAN ROOF HEIGHT 17 FT		ROOF SLOPE < 7 DEGREES				
AREA	ZONE	ULTIMATE VELOCITY PRESSURE = 64.5 PSF	TRIBUTARY AREA (SQ. FT.)			
MAIN ROOF	3	PRESSURE psf	10	20	50	100
	3	SUCTION psf	-161	-151	-120	-69
OVERHANG	3	SUCTION psf	-161	-144	-113	-54

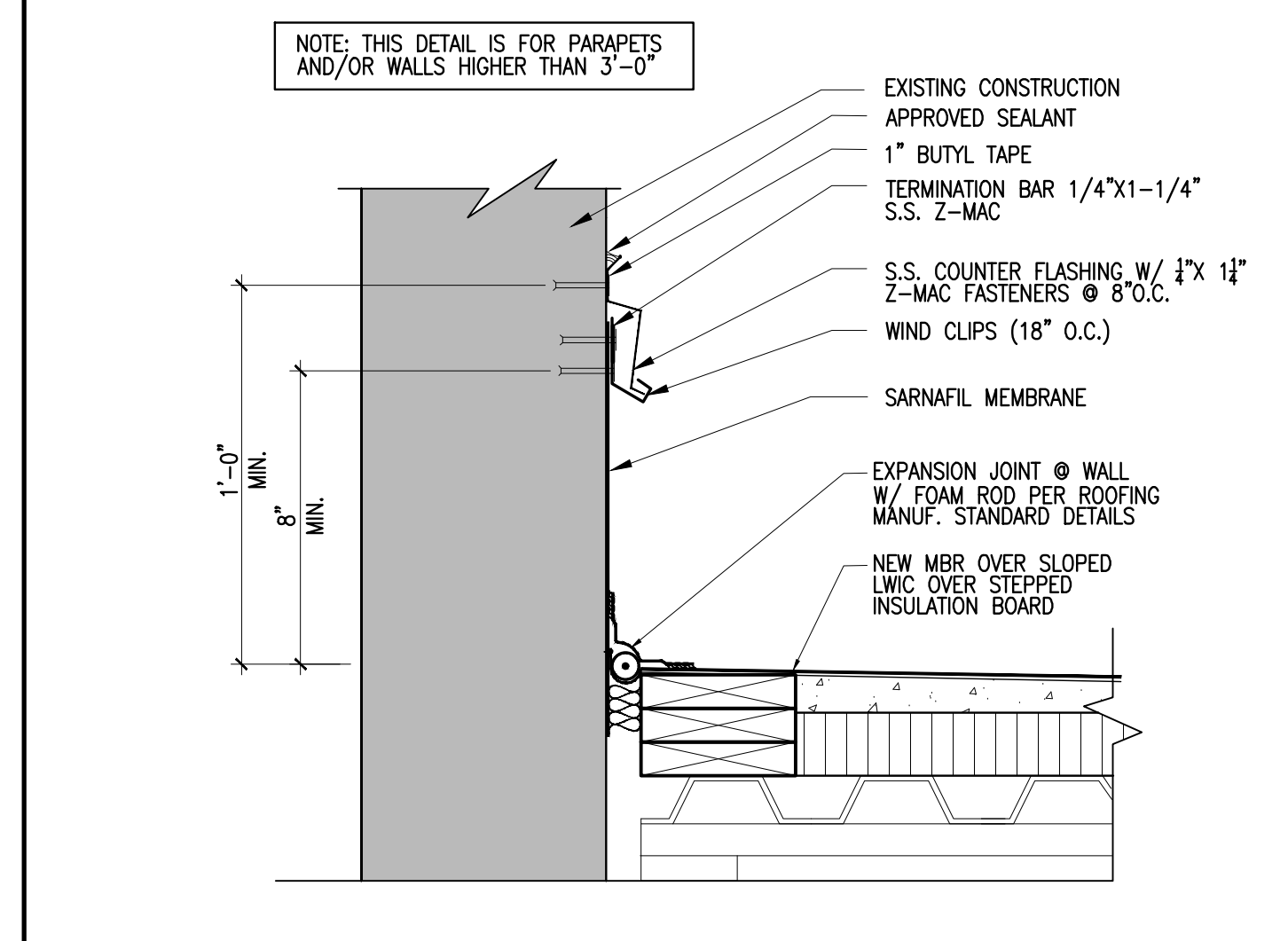
TABLE 1: GROSS ROOF CLADDING ULTIMATE WIND LOADS

ZONE	AREA	10 SF	50 SF
4&5	PRESSURE psf	38	37
4	SUCTION psf	-38	-37
5	SUCTION psf	-46	-45

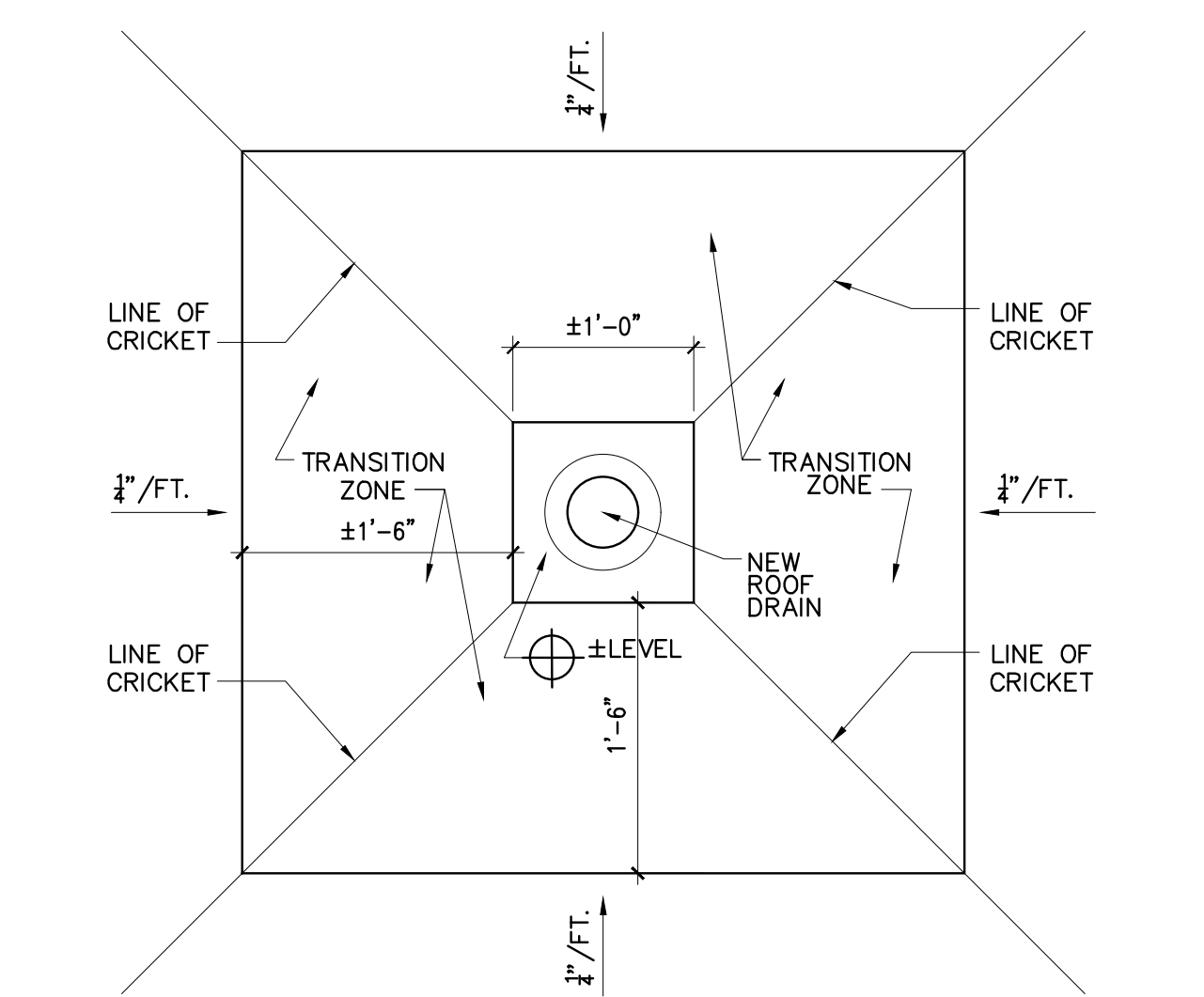
TABLES 2: WALL SERVICE (ASD) DESIGN WIND LOAD - COMPONENTS AND CLADDING

5	4	5
a		a

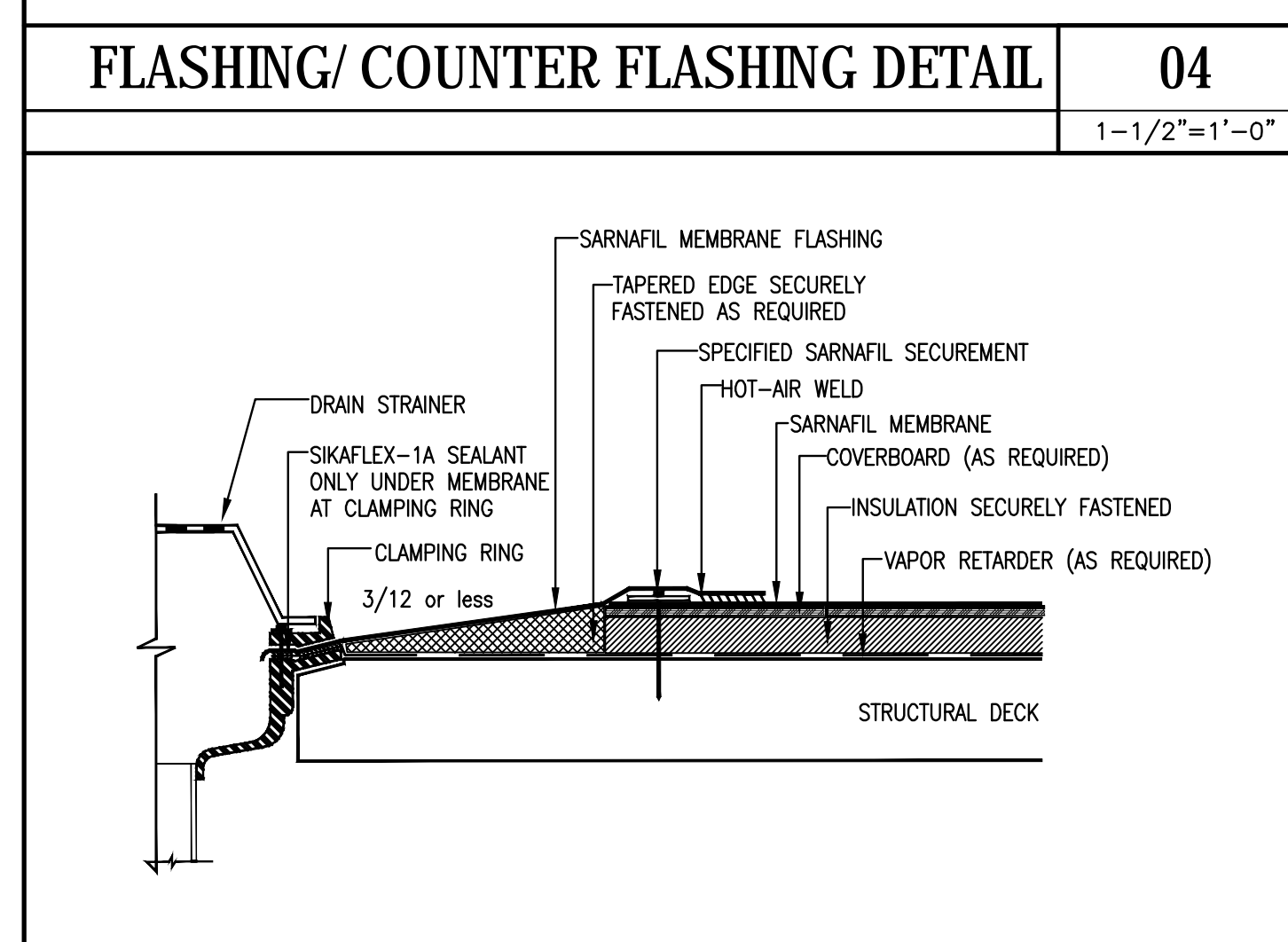
WALL WIND ZONES



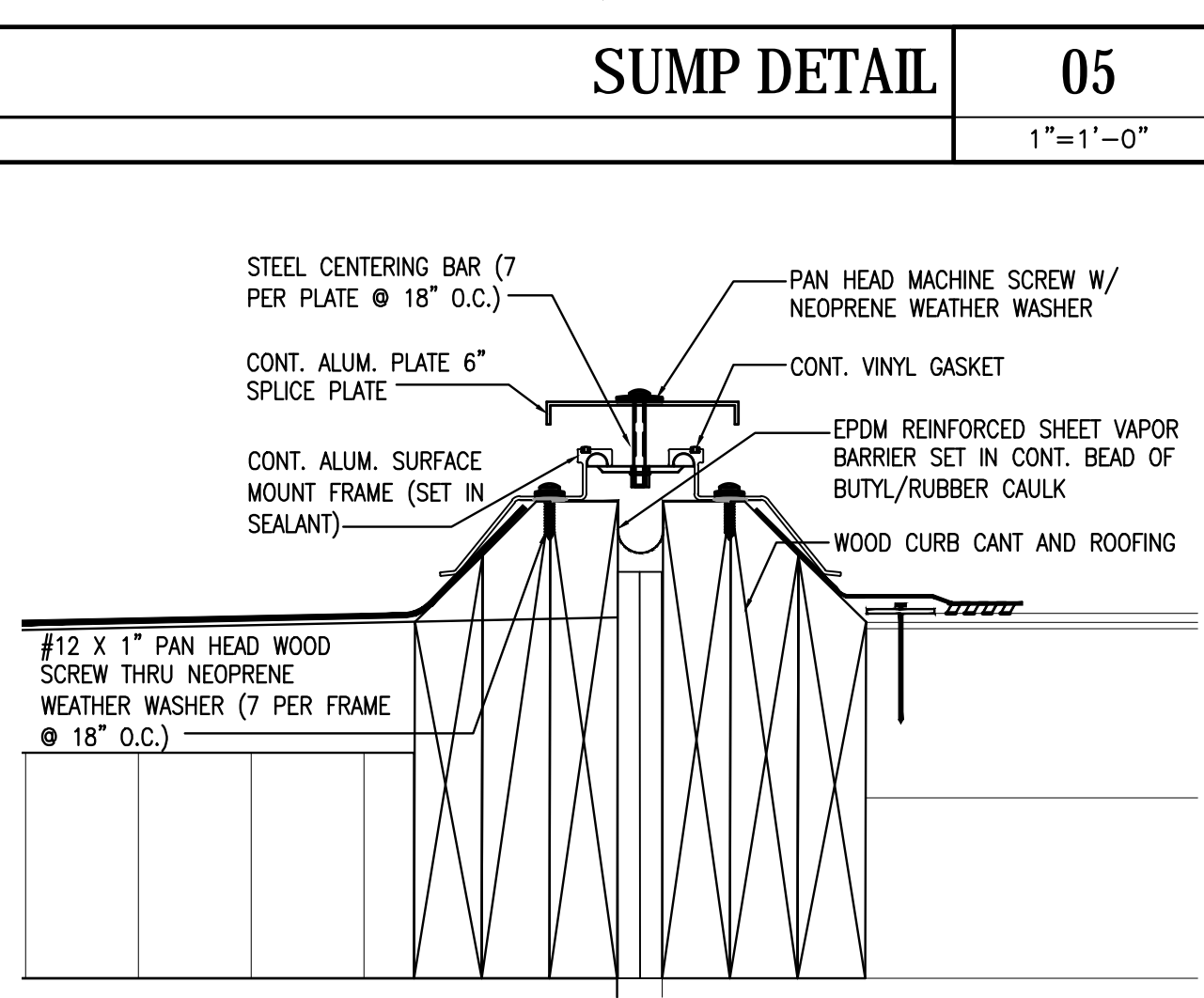
FLASHING/COUNTER FLASHING DETAIL 04
1-1/2"=1'-0"



SUMP DETAIL 05
1"=1'-0"



FLASHING/COUNTER FLASHING DETAIL 06
3"=1'-0"



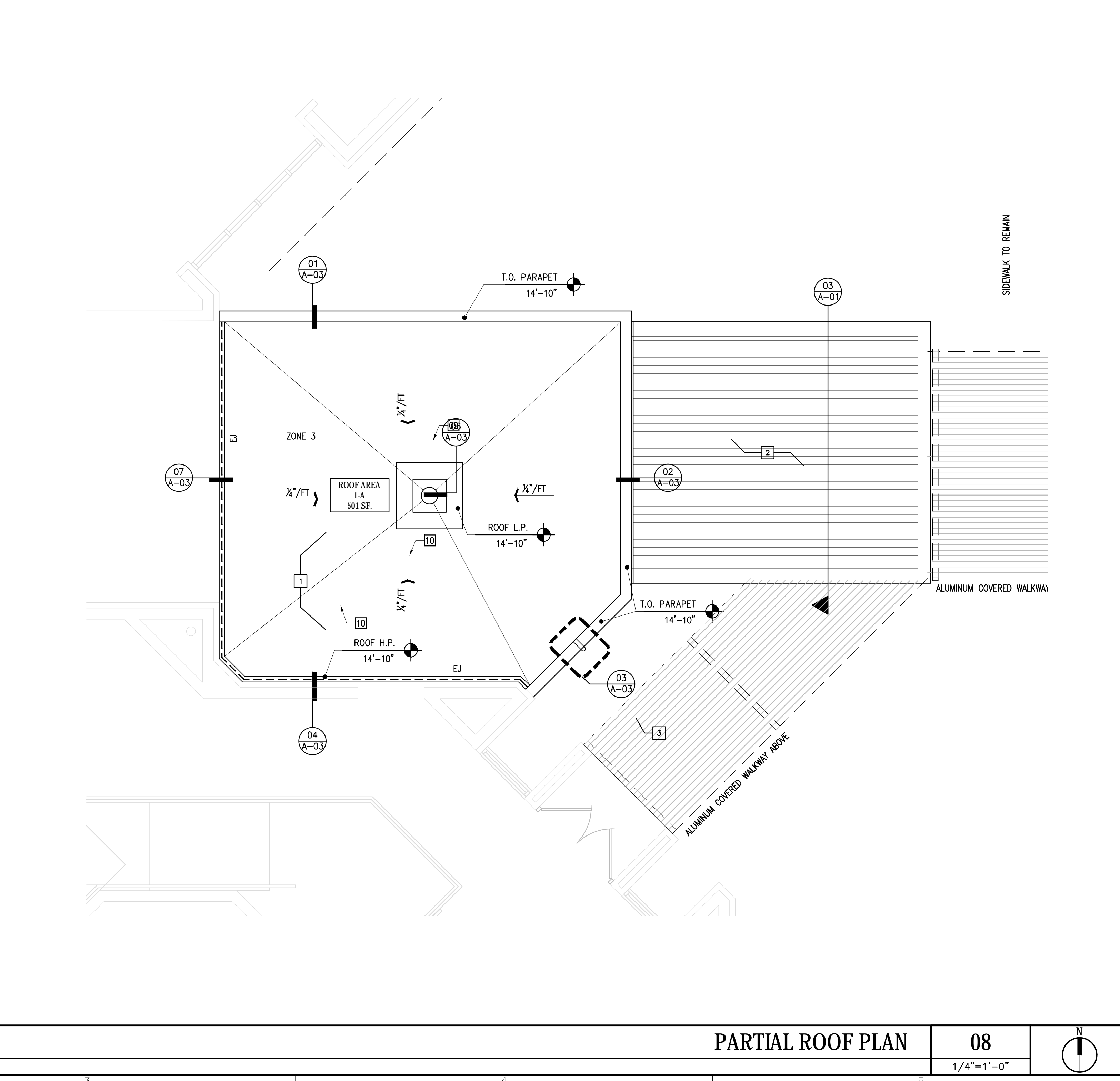
SUMP DETAIL 07
3"=1'-0"

ROOF PLAN GENERAL NOTES:

- ROOF MEMBRANE SHALL BE A MULTI-PLY SBS MODIFIED BITUMEN MEMBRANE SYSTEM OVER OVER EXISTING LIGHTWEIGHT CONC / INSULATION OVER EXISTING CORRUGATED METAL DECK (STRUCTURE IS SLOPED AT 1/4" FT).
- ALL WORKING SCUPPERS & EMERGENCY OVERFLOW SCUPPERS SHALL BE MIN. 4" X 11" CLEAR DIMENSION (AFTER FLASHING)
- ALL METAL FLASHING, GUTTERS, DOWNSPOUTS, SCUPPERS AND PARAPET CAPS SHALL BE STAINLESS STEEL.
- REMOVE ALL DEBRIS FROM ALL EXISTING ALUMINUM CANOPIES & PRESSURE CLEAN.
- ALL EXISTING ROOFTOP EQUIPMENT IS TO BE REMOVED AND REPLACED AFTER NEW COMPLIANT CURBS & FLASHING ARE IN PLACE EXCEPT WHERE NOTED OTHERWISE.
- ALL RAISED STANDS AND OR SUPPORTS SHALL PROVIDE MIN. 18" CLEAR FROM ROOF SURFACE TO BOT. OF EQUIPMENT.
- ALL ROOFTOP EQUIPMENT ARE TO RECEIVE CABLING. SEE TYPICAL DETAIL.
- TRAFFIC PADS ARE TO BE PROVIDED FOR ALL ROOF TOP EQUIPMENT REQUIRING MAINTENANCE PADS SHALL BE INSTALLED AROUND PERIMETER OF EQUIPMENT.
- ALL EXISTING SHEET METAL, EXHAUST CAPS, EXHAUST HOODS & EXHAUST VENTS ARE TO BE REPLACED W/ NEW OF EQUAL SIZE (VENT AREA), EXTEND DUCTWORK AS NEED TO MEET MIN. ROOF CLEARANCE PER NEW CURB / CURB ADAPTORS. REFER TO MECHANICAL DRAWINGS FOR NEW ROOFTOP EQUIPMENT SPECIFICATIONS.
- "BACK-SIDES" OF ROOF CRICKETS (AGAINST PARAPET WALLS) SHALL BE PROVIDED W/ LWTC OVERLAY TO PROVIDE SLOPE @ 1/4" FT IN THE DIRECTION OF THE ROOF DRAIN.
- ALL ROOFTOP EQUIPMENT SHALL HAVE 1/4" FT. SLOPED CRICKETS ALONG EDGE OF HIGH SIDE.
- EXISTING ROOF DRAIN ASSEMBLIES THAT ARE DAMAGED OR MISSING SHALL BE REPLACED.

ROOF CODED NOTES

- EXISTING OVERHANG STRUCTURE TO BE CUT BACK TO FACE OF EXTERIOR WALL.
- PROVIDE NEW ALUMINUM WALKWAY COVERING TO MATCH EXISTING FINISHES. BOTTOM OF NEW STRUCTURE TO BE 9'-0".
- PROVIDE 3" COW'S TONGUE OVERFLOW @ TOP OF TAPERED ROOF FINISH. REFER TO DETAIL THIS DRAWING.



PARTIAL ROOF PLAN 08
1/4"=1'-0"

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School District of Indian River County

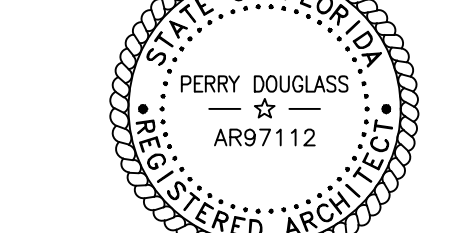
SINGLE POINT OF ENTRY RENOVATION

FELLSMERE ELEMENTARY SCHOOL
50 N CYPRESS ST.
FELLSMERE, FL 32948

Revisions:

Date: 01/10/2019
S+A Project No.: 18031
Owner Project No.:
Drawn By: PD
Checked By: PD
Phase: 100% CONSTRUCTION DOCUMENTS

Sheet Title: **ROOF PLAN & DETAILS**
Sheet #: **A-03**



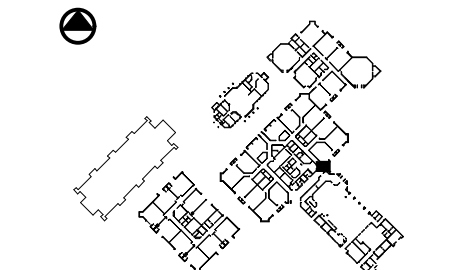
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SINGLE POINT OF ENTRY RENOVATION

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50 N CYPRESS ST.
FELLSMERE, FL 32948



Revisions :

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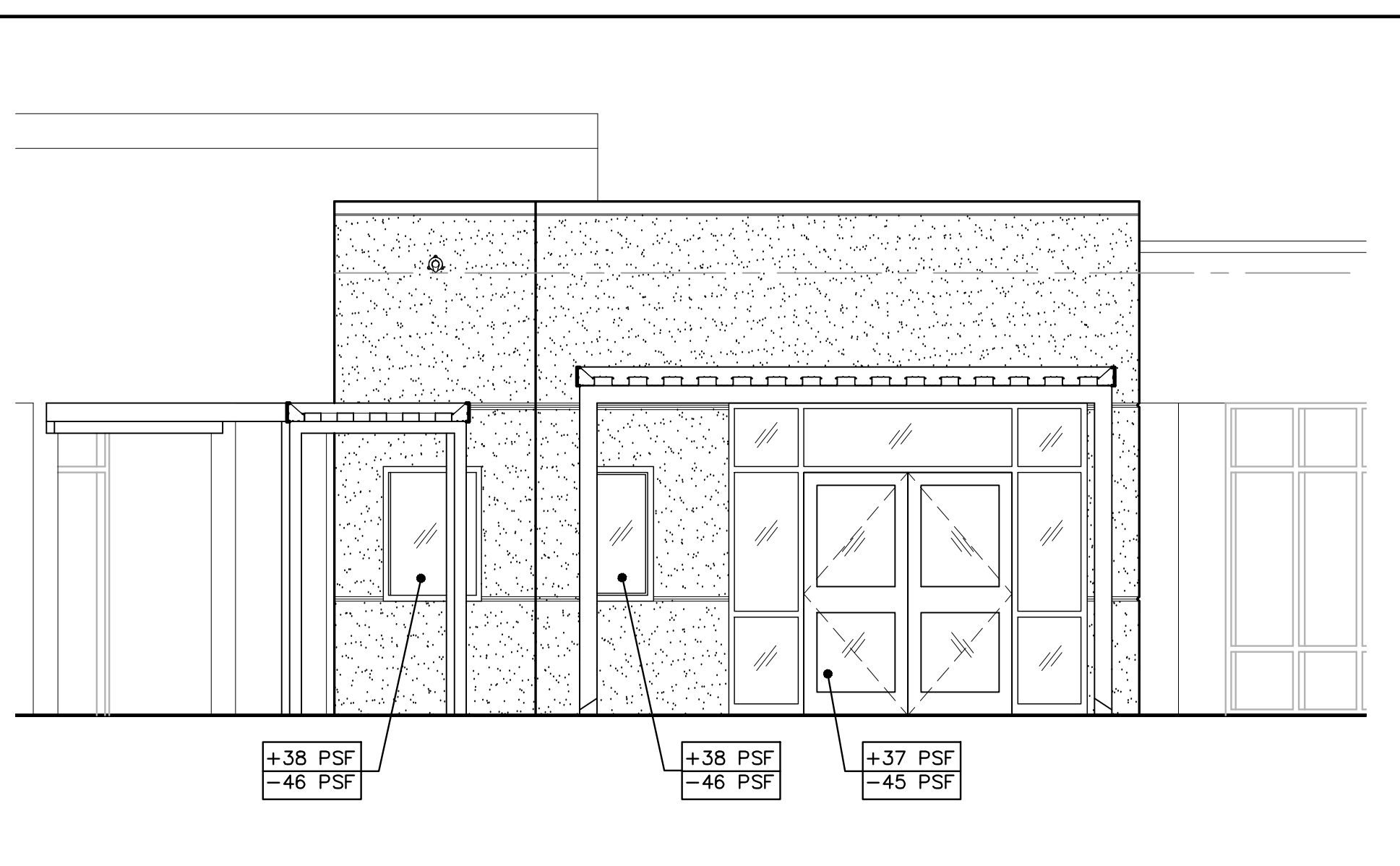
100% CONSTRUCTION DOCUMENTS

Sheet Title :

BUILDING DETAILS

Sheet # :

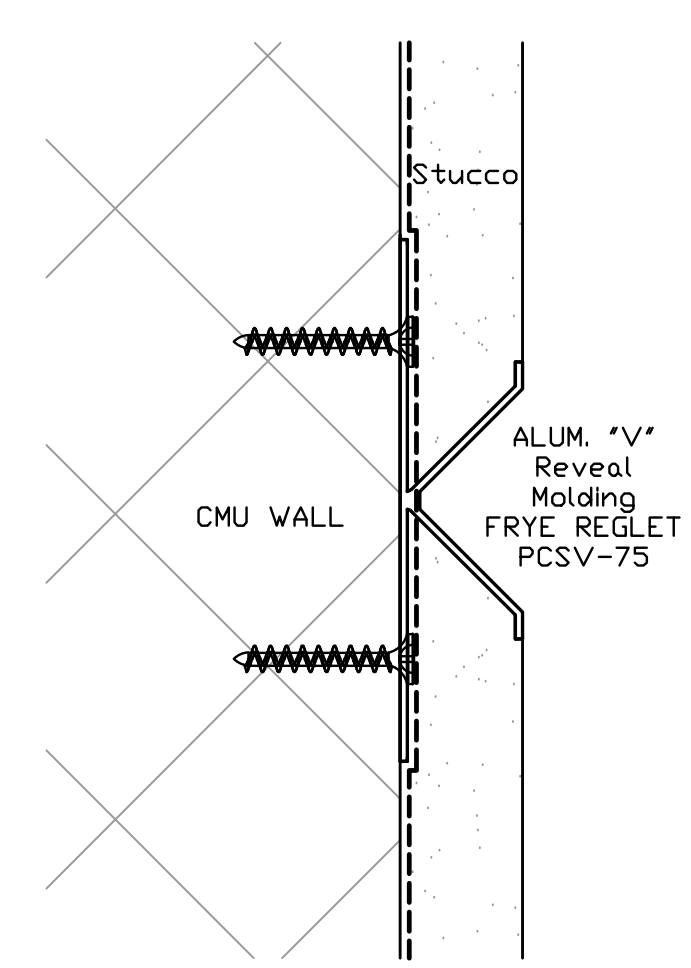
A-04



EXTERIOR ELEVATION

02

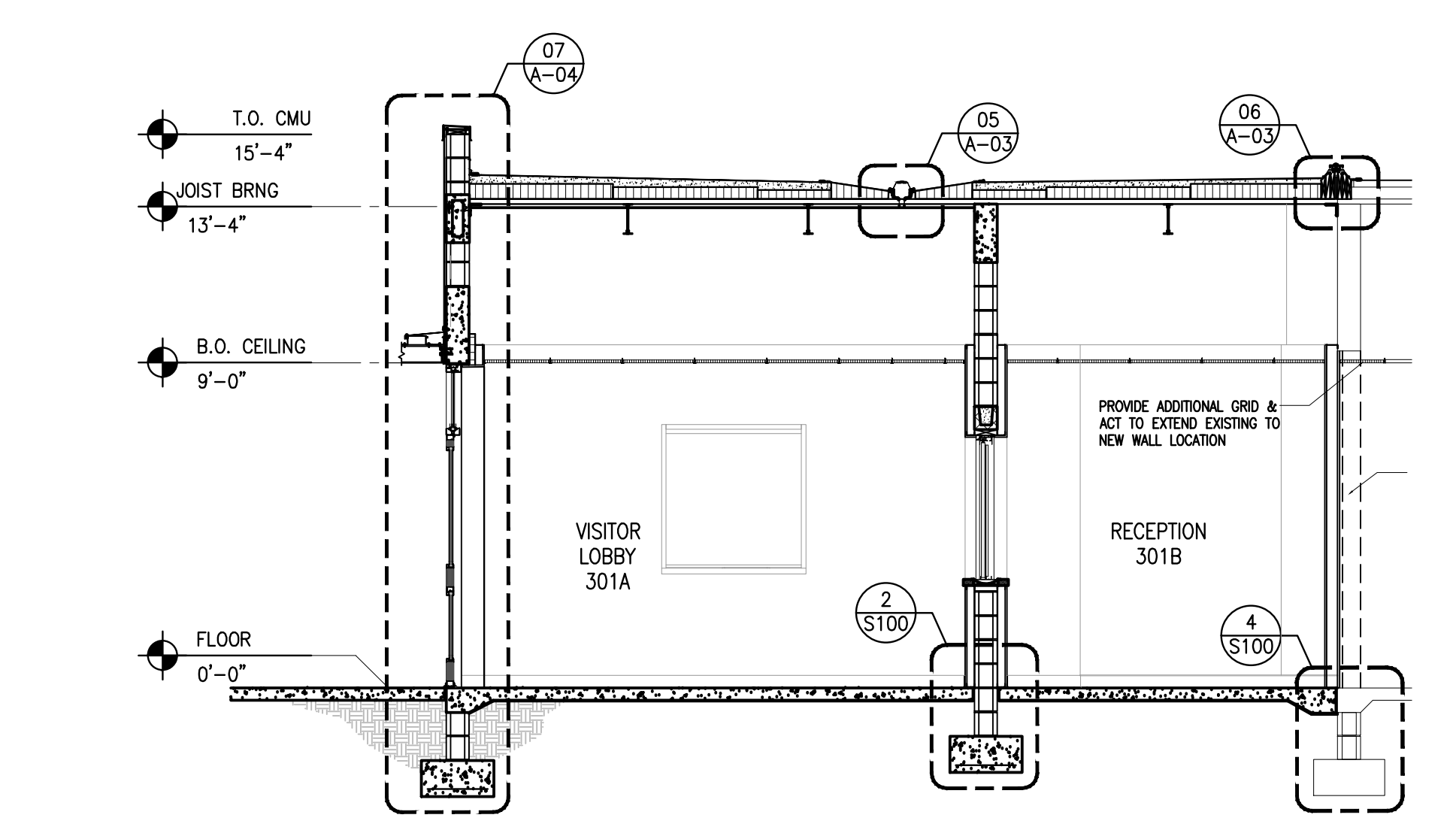
1/4"=1'-0"



STUCCO REVEAL DETAIL

01

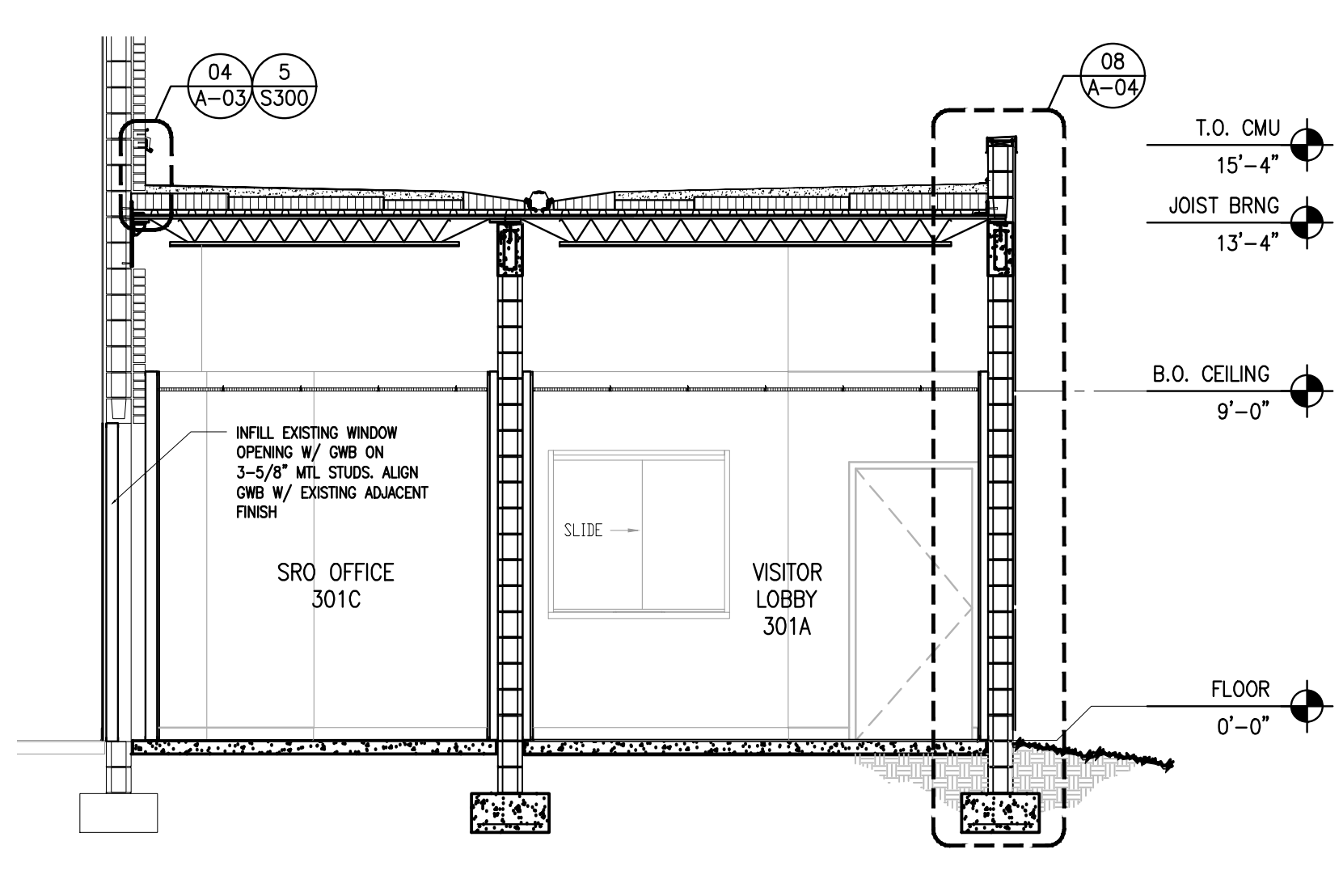
N.T.S.



BUILDING SECTION A

05

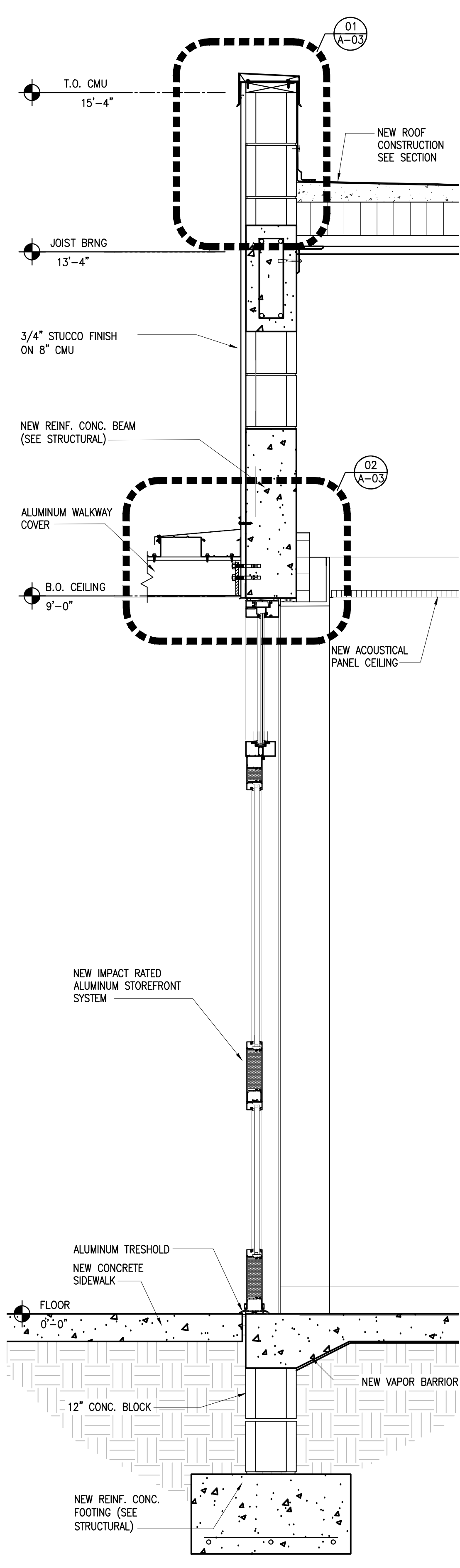
1/4"=1'-0"



BUILDING SECTION B

06

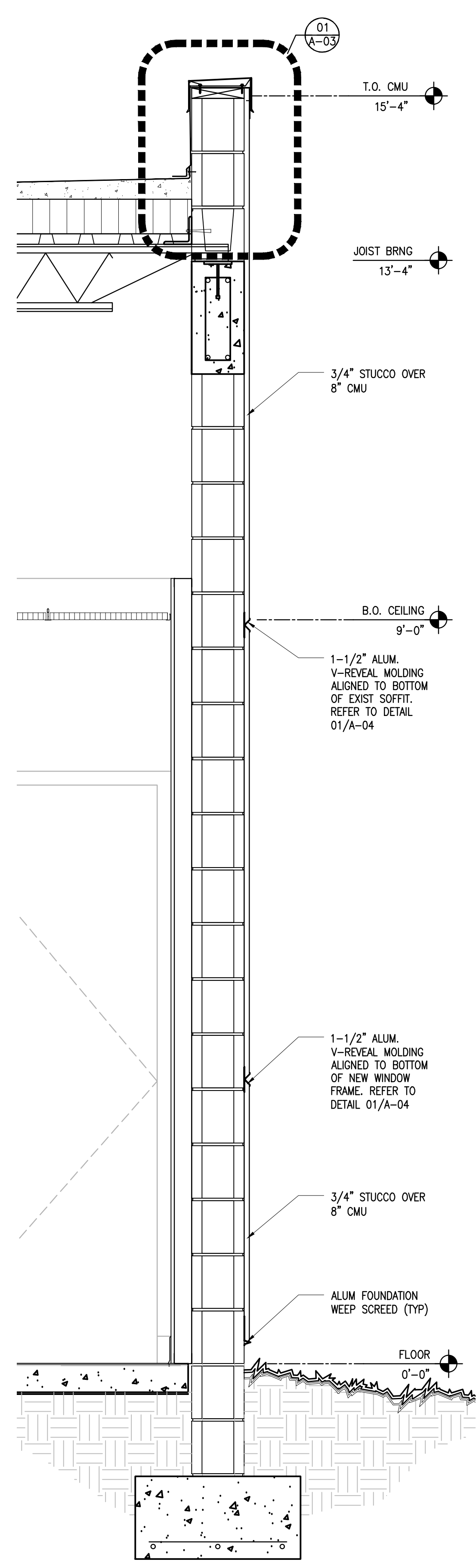
1/4"=1'-0"



WALL SECTION A

07

1/4"=1'-0"



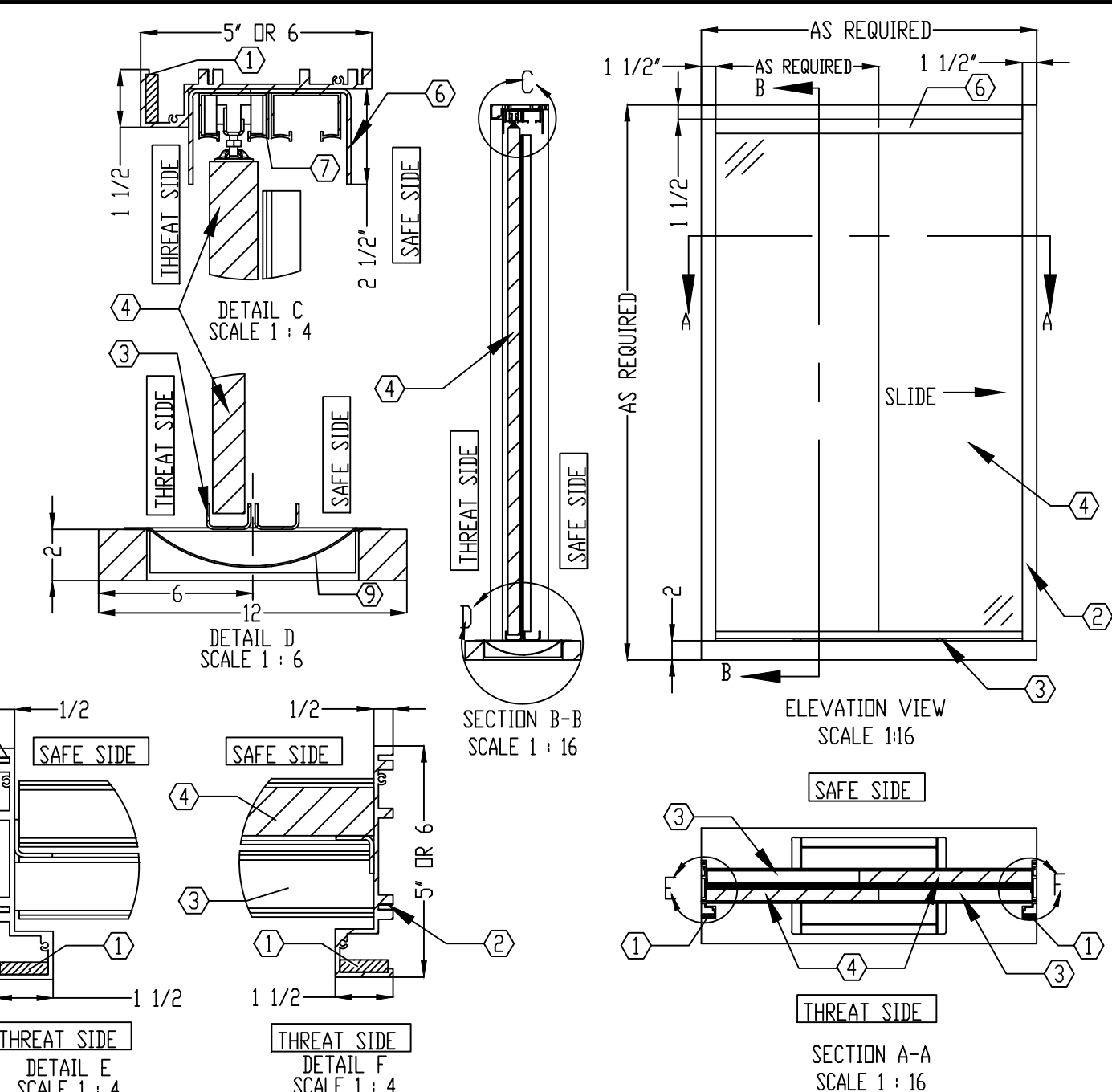
WALL SECTION B

08

1/4"=1'-0"

NOTES:

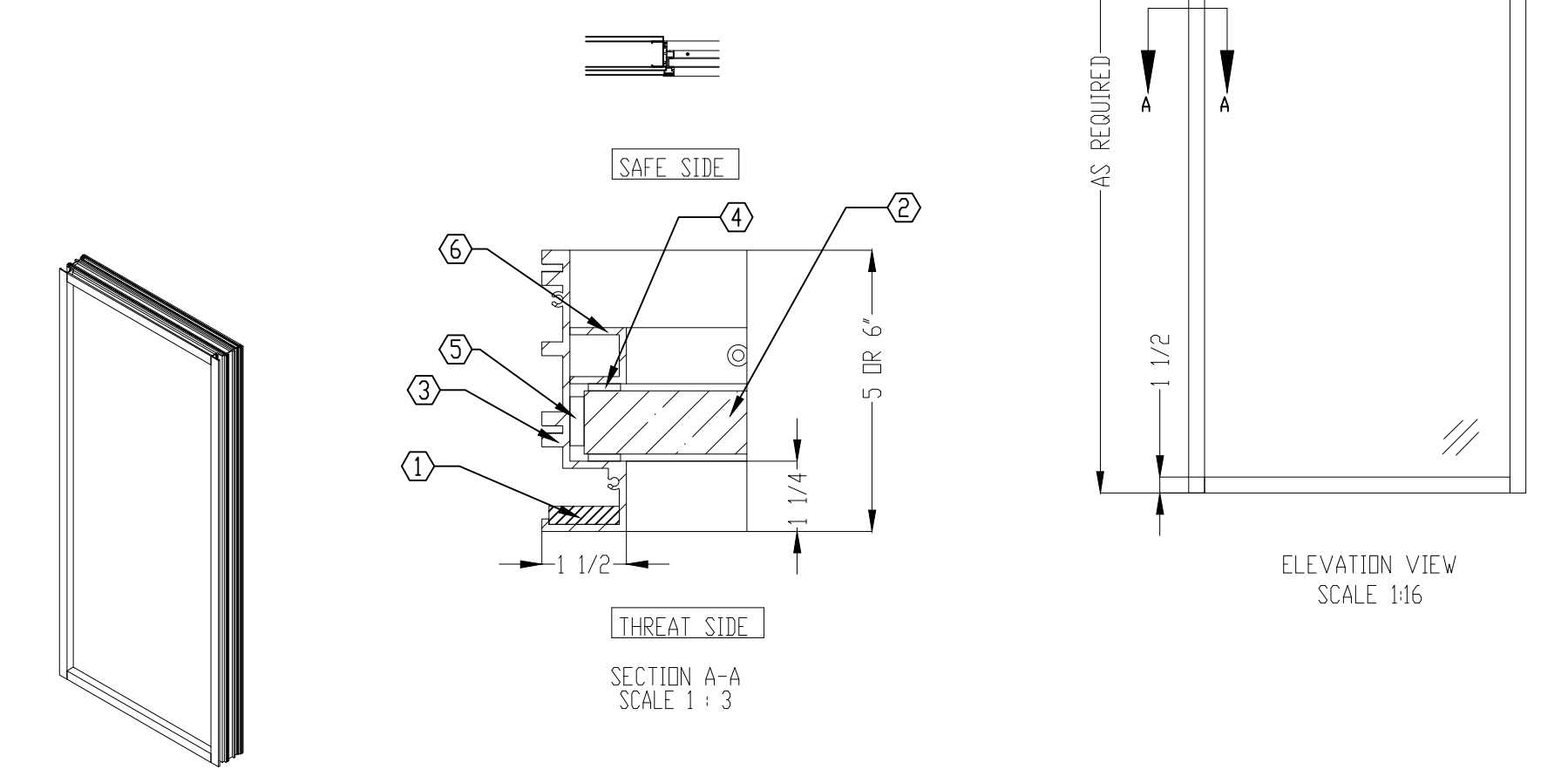
- ① ARMORTEX * BULLET RESISTANT ARMOR
- ② EXTRUDED ALUMINUM FRAME (CLEAR ANODIZED)
- ③ STAINLESS STEEL TRACK
- ④ ARMORTEX * BULLET RESISTANT GLAZING
- ⑤ 1/4" Ø QUICK RELEASE PIN W/ NYLON COATED CABLE (NOT SHOWN)
- ⑥ DOUBLE STAINLESS STEEL ROLLER GUARD
- ⑦ ROLLER TRACK
- ⑧ HANDPULL (NOT SHOWN)
- ⑨ STAINLESS STEEL DEAL TRAY
- ⑩ HIGH PRESSURE LAMINATED BLACK PLASTIC SHELF (STAINLESS STEEL OPTIONAL)
- ⑪ ANCHORS AS REQUIRED (NOT SHOWN)



SCALE: AS NOTED	TITLE: TRANSACTION WINDOW ALUMINUM SLIDING	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES	ARMORTEX
DATE: 06-24-2015	MODEL: W1-TW-AL-SW	ARMORTEX * BULLET RESISTANT GLAZING	5926 CORRIDOR PKWY SCHERTZ, TX 78154
DRAWN BY: M. FREEMAN	SHEET NUMBER: 1 OF 1	ARMORTEX * BULLET RESISTANT GLAZING	TEL: 281-641-8306 800-888-8306 FAX: 281-641-8308

NOTES:

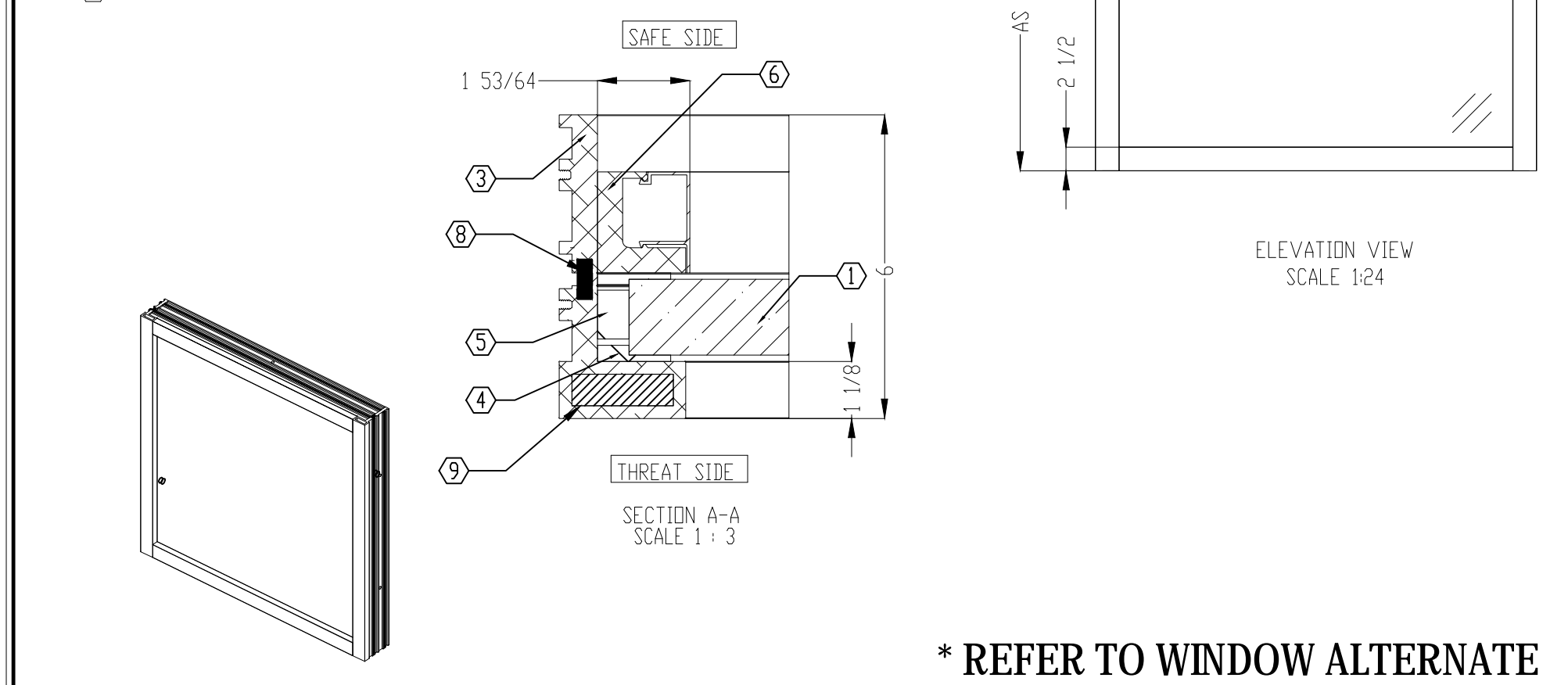
- ① ARMORTEX * BULLET RESISTANT ARMOR
- ② ARMORTEX * BULLET RESISTANT GLAZING
- ③ EXTRUDED ALUMINUM FRAME (CLEAR ANODIZED)
- ④ GLAZING TAPE
- ⑤ NEOPRENE SETTING BLOCKS
- ⑥ REMOVABLE STOP 1" X 1"
- ⑦ ANCHORS AS REQUIRED (NOT SHOWN)



SCALE: AS NOTED	TITLE: FIXED WINDOW ALUMINUM	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES	ARMORTEX
DATE: 06-18-2015	MODEL: W1-FW-AL-RS	ARMORTEX * BULLET RESISTANT GLAZING	5926 CORRIDOR PKWY SCHERTZ, TX 78154
DRAWN BY: M. FREEMAN	SHEET NUMBER: 1 OF 1	ARMORTEX * BULLET RESISTANT GLAZING	TEL: 281-641-8306 800-888-8306 FAX: 281-641-8308

NOTES:

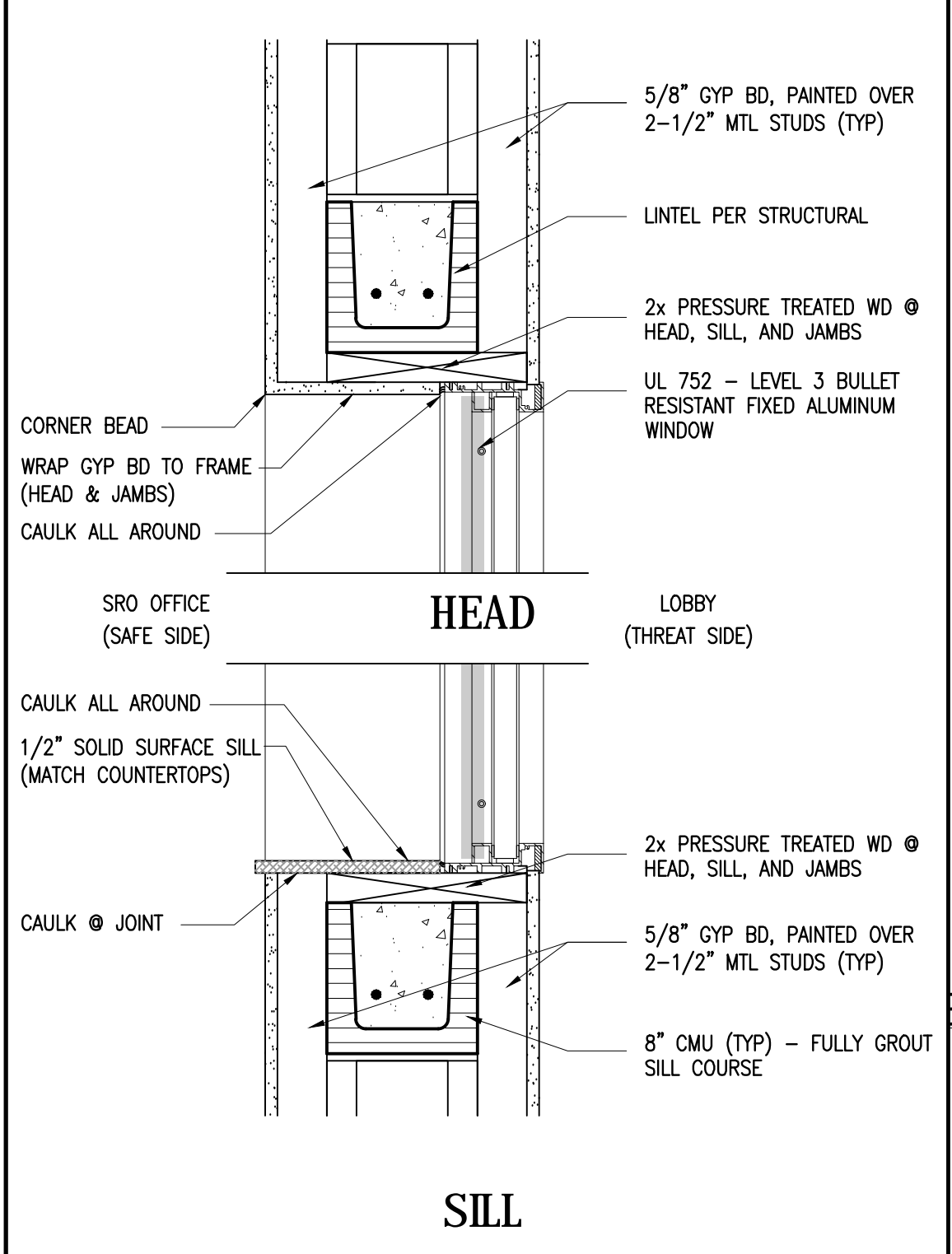
- ① ARMORTEX * BULLET RESISTANT GLAZING
- ② EMBEDS WILL VARY PER SPECIFIC BLAST-INSTALLATION REQUIREMENTS (NOT SHOWN)
- ③ EXTRUDED ALUMINUM FRAME (CLEAR ANODIZED)
- ④ STRUCTURAL SILICONE
- ⑤ NEOPRENE SETTING BLOCKS
- ⑥ REMOVABLE STOP
- ⑦ ANCHORS AS REQUIRED (NOT SHOWN)
- ⑧ URETHANE THERMAL BRAKE
- ⑨ ARMORTEX * BULLET RESISTANT ARMOR



SCALE: AS NOTED	TITLE: FIXED WINDOW THERMALLY BROKEN	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES	ARMORTEX
DATE: 06-22-2015	NOTE: W1-FW-AL-TB	ARMORTEX * BULLET RESISTANT GLAZING	5926 CORRIDOR PKWY SCHERTZ, TX 78154
DRAWN BY: M. FREEMAN	SHEET NUMBER: 1 OF 1	ARMORTEX * BULLET RESISTANT GLAZING	TEL: 281-641-8306 800-888-8306 FAX: 281-641-8308

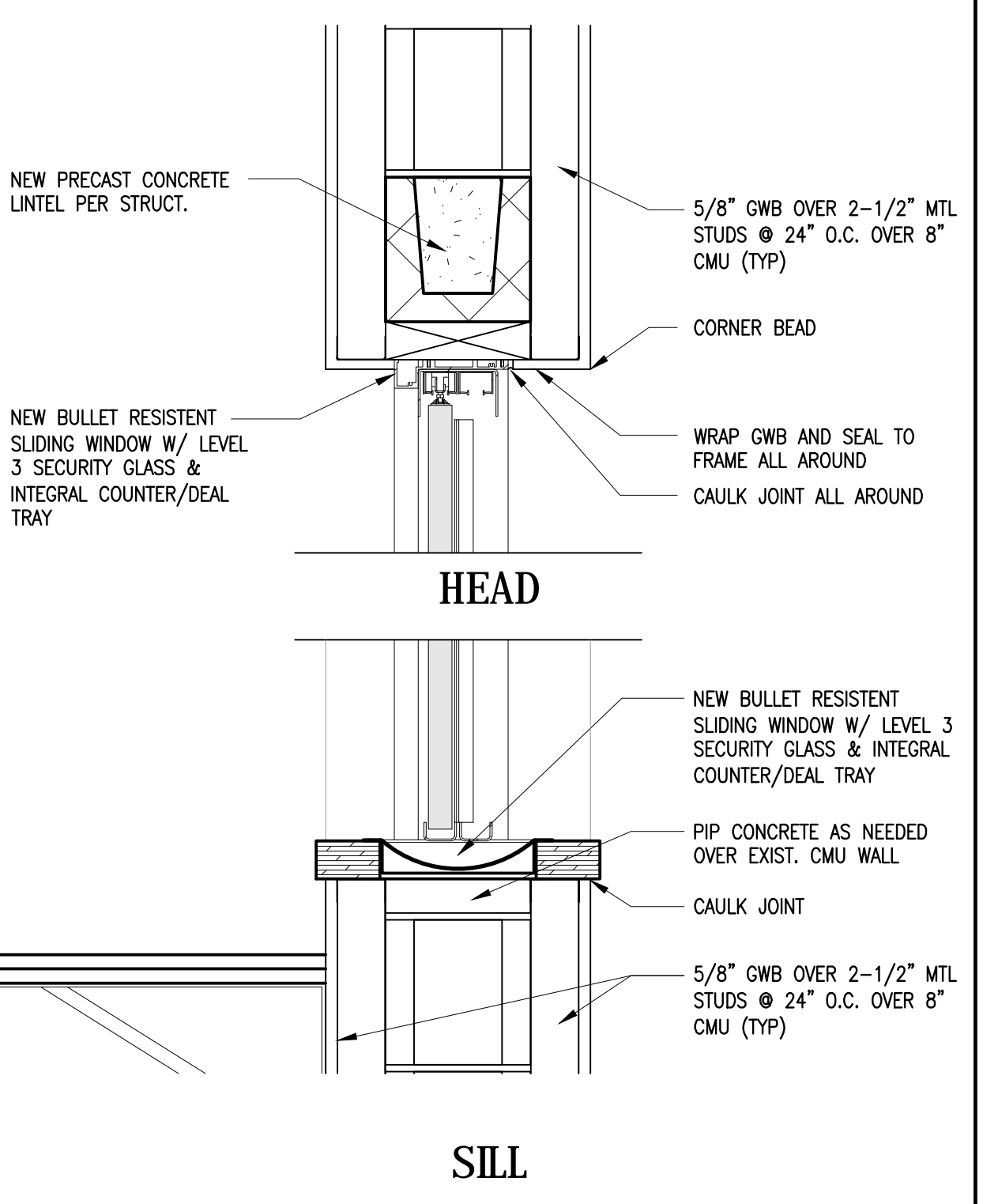
* REFER TO WINDOW ALTERNATE

IG1



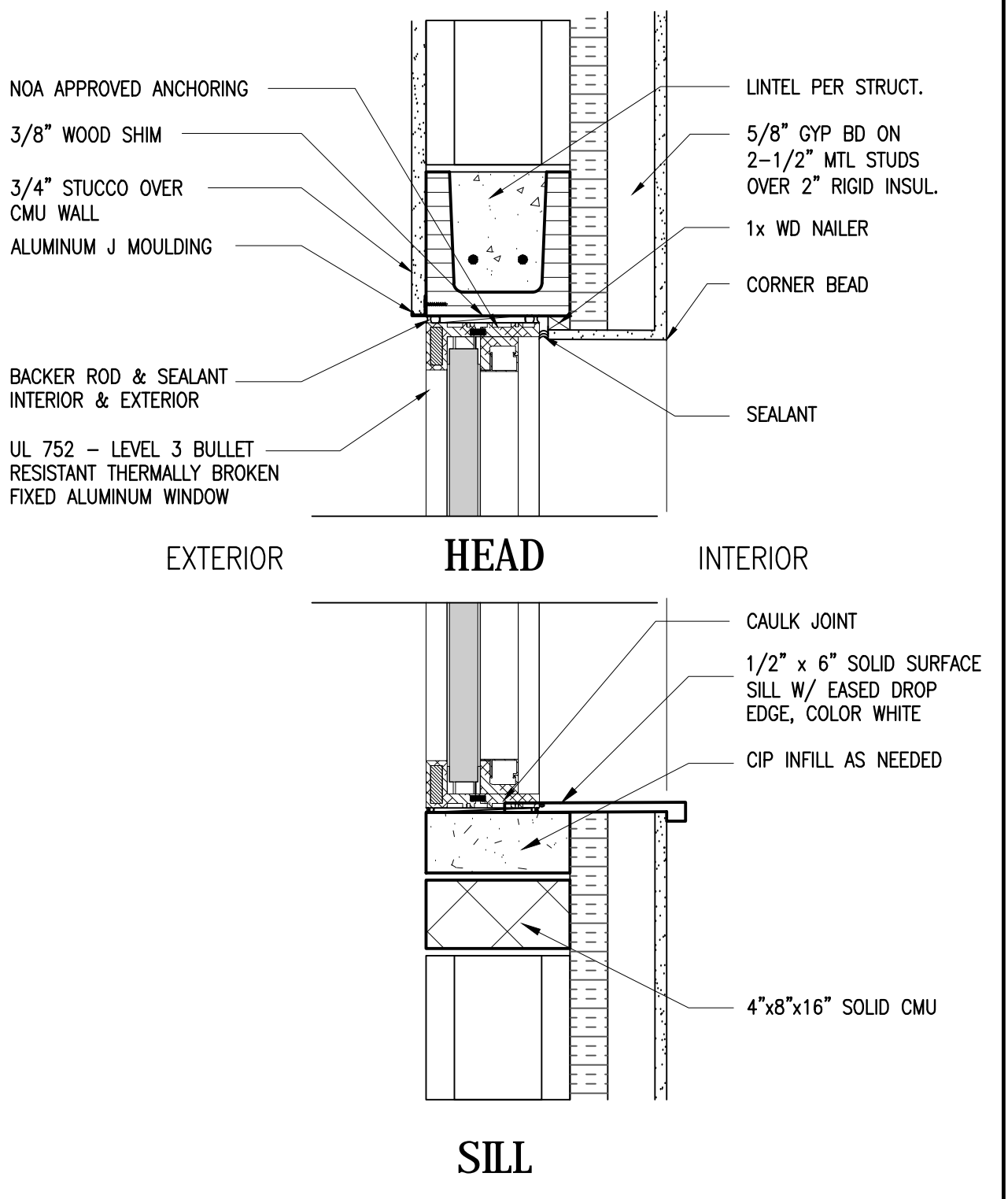
INTERIOR WINDOW DETAILS 05
SRO OFFICE - WINDOW TYPE IG2 1-1/2"=1'-0"

IG2



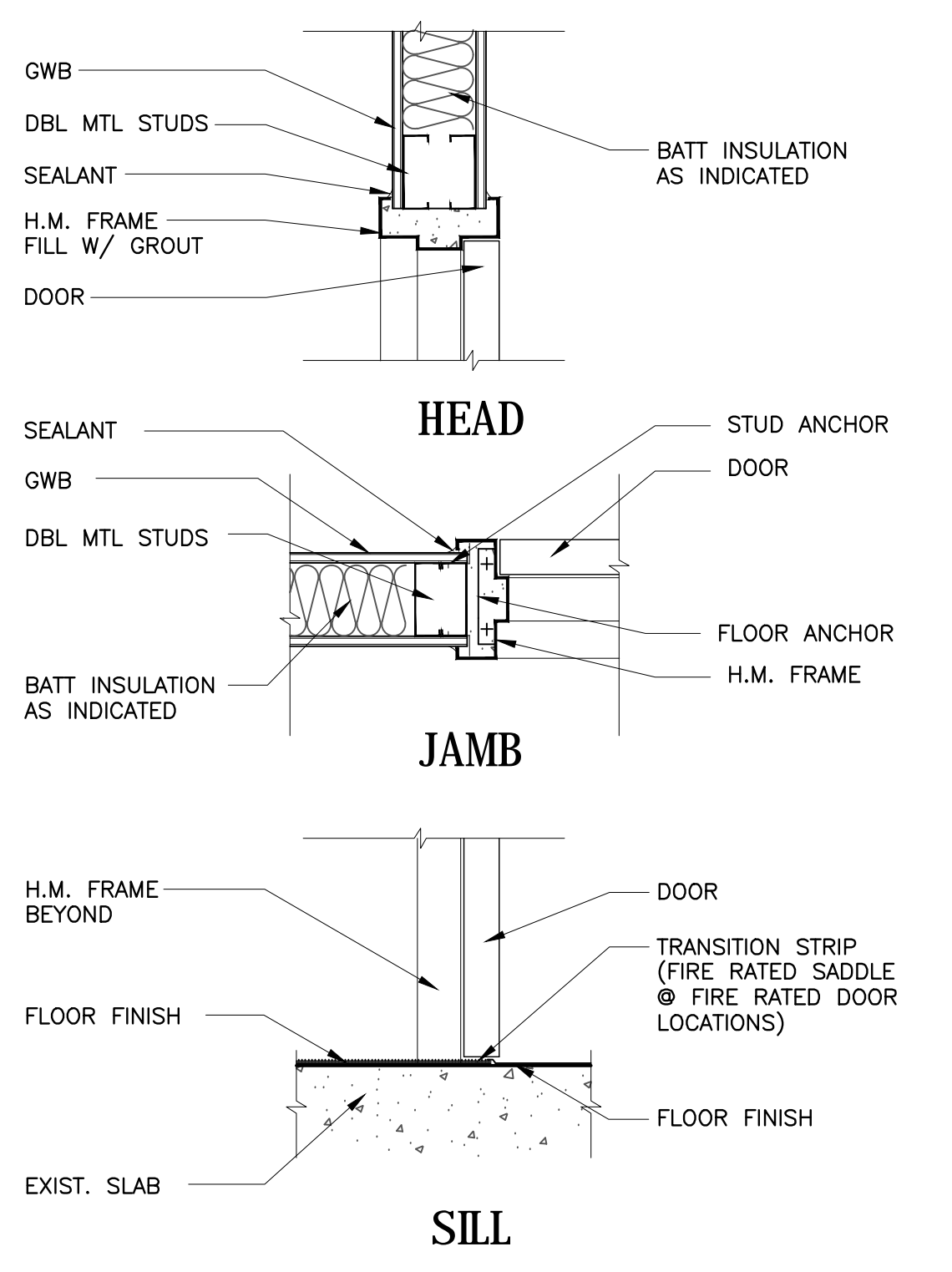
TRANSACTION WINDOW DETAILS 04
WINDOW TYPE IG1 1-1/2"=1'-0"

IG2



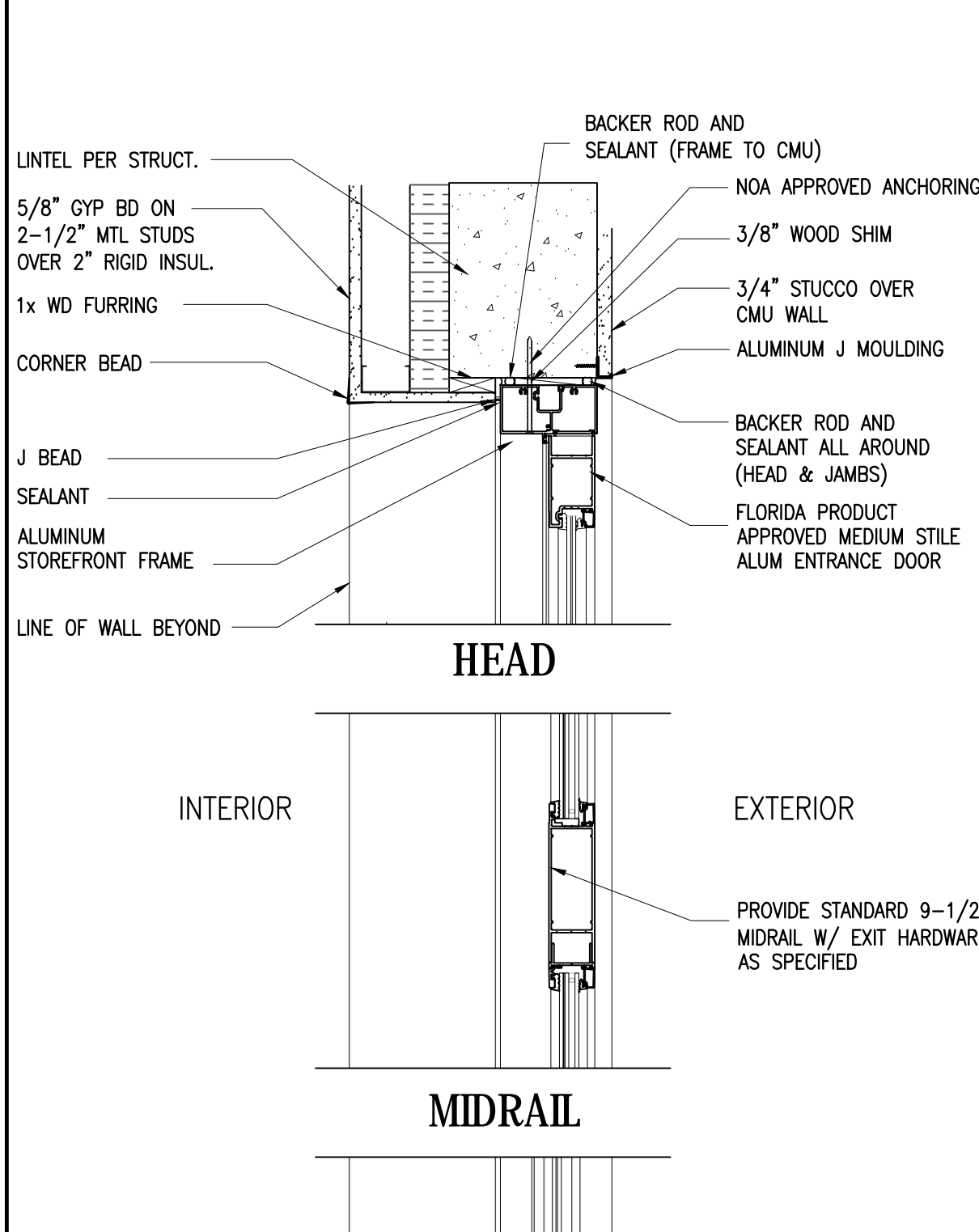
EXTERIOR WINDOW DETAILS 03
SRO OFFICE - WINDOW TYPE W1 1-1/2"=1'-0"

W1



HM DOOR FRAME DETAILS 02
SRO OFFICE - WINDOW TYPE W1 1-1/2"=1'-0"

W1



ALUMINUM ENTRANCE DETAILS 01
1-1/2"=1'-0"

DOOR & WINDOW SCHEDULE									
DOOR	SIZE	DOORS	FRAMES	DETAILS	FIRE RATING	HDWR GROUP	GLAZING	STC RATING	REMARKS
		MAT	TYPE	HEAD	JAMB				
301A	3070	AL	FG	F1	01				1, 2, 3, 4
101A	3070	WD	D1	HM	F1				3
301B	3070	WD	D1	HM	F1				03

WINDOW ALTERNATE	
ALT A-1:	FOR WINDOW TYPE W-1, PROVIDE PRICING TO PROVIDE CLEAR ANODIZED THERMALLY BROKEN ALUMINUM FRAME WINDOW, YKK AP SERIES YCW 700 OR APPROVED EQUIVALENT, WITH LARGE MISSILE IMPACT RESISTANT GLAZING IN LIEU OF BULLET RESISTANT SYSTEM SPECIFIED.
GLAZING:	1. THICKNESS: 0.060" (MINIMUM, BUT NOT LESS THAN REQUIRED TO MEET IMPACT REQUIREMENTS). 2. CLEAR INTERLAYER BETWEEN TWO 1/4" HEAT-STRENGTHENED GLASS, CLEAR INBOARD, CLEAR OUTBOARD.

HARDWARE SCHEDULE			
Hardware Group No. 01	For use on mark/door #(:)	301A	Finish
Qty Description	Catalog Number	630	Mfr
3EA HW HINGE	3C21HW 4.5 X 4.5 NRP	630	IVE
1EA POWER TRANSFER	EP710 CON	689	VON
1EA ELEC PANIC	GEL-98-NL-CON	626	VON
HARDWARE			
1EA MORTISE CYLINDER	1000	626	C-R
1EA RIM CYLINDER	3000	626	C-R
1EA SURF. AUTO OPERATOR	9542 LONG2 MS	ANCLR	LCN
1EA KEYSWITCH	8310-809K	BLK	LCN
2EA ACTUATOR WALL MOUNT	8310-826	630	LCN
1EA THRESHOLD	65A-MSLA-10	A	ZER
1EA WIRE HARNESS	CON-12P		VON
1EA WIRE HARNESS	CON-6P		VON
1EA PUSHBUTTON	621AL	629	SCE
1EA POWER SUPPLY	PS904 900-4RL	LGR	VON
Balance of Door Hardware to be supplied by Aluminum Door Supplier 084100 verify door function before installation - wiring diagram by hardware supplier			
Hardware Group No. 02	For use on mark/door #(:)	101A	Finish
Qty Description	Catalog Number	652	Mfr
3EA HINGE	3C21 4.5 X 4.5	652	IVE
1EA STOREROOM	CL3357 NZD	626	C-R
1EA ELECTRIC STRIKE	6211 FSE	630	VON
1EA SURFACE CLOSER	4040XP	689	LCN
1EA KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1EA PUSHBUTTON	621AL	629	SCE
1EA WALL STOP	WS406/407CCV	630	IVE
3EA SILENCER	SR64	GRY	IVE
Hardware Group No. 03	For use on mark/door #(:)	301B	Finish
Qty Description	Catalog Number	652	Mfr
3EA HINGE	3P81 4.5 X 4.5	652	IVE
1EA CLASSROOM	CL3355 NZD	626	C-R
1EA WALL STOP	WS406/407CCV	630	IVE
3EA SILENCER	SR64	GRY	IVE

REMARKS									
1. 1/2" TEMPERED GLASS, IMPACT RESISTANT.									
2. PANIC HARDWARE TO BE PROVIDED									
3. WIRE FOR REMOTE DOOR RELEASE									
4. PROVIDE ALPHONE JO-DFV FLUSH MOUNT VIDEO INTERCOM W/ INTEGRAL ELECTRONIC DOOR LOCK @ 48" AFF. KEYPAD MONITOR TO BE LOCATED AT RECEPTION DESK.									
NOTE: EXAMPLE DOOR SIZE DESIGNATION: 3870 = 3'-8" WIDE X 7'-0" HIGH DOOR LEAF SIZE									

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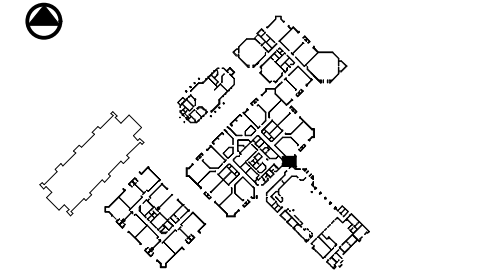
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OFFICE OF FACILITIES & CONSTRUCTION



SINGLE POINT OF ENTRY RENOVATION

FELLSMERE ELEMENTARY SCHOOL
50 N CYPRESS ST.
FELLSMERE, FL 32948



Revisions:	

Date: 01/10/2019
S+A Project No.: 18031
Owner Project No.:
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Checked By: PD

Phase: 100% CONSTRUCTION DOCUMENTS

Sheet Title: DOOR SCHEDULE AND DETAILS

Sheet #: A-05

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



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ELEMENTARY SCHOOL
50 N CYPRESS ST.
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Revisions :
Date : 01/10/2019
S+A Project No : 18031
Owner Project No :
Drawn By : DZ
Checked By : YX
Phase :
100% CONSTRUCTION DOCUMENTS

Sheet Title :
GENERAL NOTES &
FIXTURES SCHEDULE
- PLUMBING

Sheet # :
P-01

INDEX OF PLUMBING DRAWINGS	
DWG. NO.	DESCRIPTION
P-01	GENERAL NOTES & FIXTURES SCHEDULE - PLUMBING
P-02	DETAILS - PLUMBING
P-03	NEW FLOOR PLAN, ROOF PLAN - PLUMBING

PLUMBING FIXTURE SCHEDULE			
MARK	BD-1	BD-2	SC-1
	PRIMARY ROOF DRAIN	AUX ROOF DRAIN (1)	DOWNSPOUT COVER
DESCRIPTION			
MANUFACTURER	MIFAB	MIFAB	WATTS
MODEL NO.	R1200 #A4 3"	R1200 #A4 3"	RD-950
CARRIER	-	-	-
MANUFACTURER	-	-	-
MODEL NO.	-	-	-
FLUSH VALVE	-	-	-
MANUFACTURER	-	-	-
MODEL NO.	-	-	-
SUPPLY FITTING	-	-	-
MANUFACTURER	-	-	-
MODEL NO.	-	-	-
QUANTITY	-	-	-
FAUCET	-	-	-
MANUFACTURER	-	-	-
MODEL NO.	-	-	-
DRAIN	-	-	-
MANUFACTURER	-	-	-
MODEL NO.	-	-	-
TRAP	-	-	-
MANUFACTURER	-	-	-
MODEL NO.	-	-	-
SPECIAL ITEMS	(1) PROVID WITH A 2" DAME.		

CLEANOUT SCHEDULE		
DESIGNATION	MANUFACTURER	SERIES
FCO	WATTS	CO200-R
WCO	WATTS	CO590-RD
ECO	WATTS	CO200-RX-4

GENERAL NOTES

- EACH CONTRACTOR, PROPOSER, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO INSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS TO AVOID CONFLICTS WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.
- INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC. IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING AND THE COLLECTION OF CONDENSATION THEREON. IF IN DOUBT, CONTACT THE ARCHITECT.
- ADVISE ARCHITECT OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATIONS BY WRITTEN ADDENDUM.
- DEVIATIONS FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ARCHITECT AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.
- OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.)
- INSTALL EQUIPMENT, MATERIALS, ETC., IN STRICT ACCORD WITH MANUFACTURERS' RECOMMENDATIONS AND DIRECTIONS; IF IN CONFLICT WITH THE DESIGN INTENT IN CONTRACT DOCUMENTS, ADVISE THE ARCHITECT PRIOR TO INSTALLATION FOR CLARIFICATIONS.
- ALL SYSTEMS, EQUIPMENT, AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT MEETING THIS CRITERION SHALL BE REMOVED AND REINSTALLED SATISFACTORILY. FINAL DETERMINATION OF THE ACCEPTABILITY OF THE QUALITY OF WORK RESIDES WITH THE ARCHITECT.
- ALL WORK, MATERIALS, EQUIPMENT, ETC. SHALL BE FULLY GUARANTEED FOR ONE FULL CALENDAR YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AS DOCUMENTED BY THE ARCHITECT, UNLESS LONGER WARRANTY PERIODS FOR EQUIPMENT ARE SPECIFIED.
- UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIMED AND FINISHED SO AS TO COMPLEMENT ADJACENT SURFACE, UNLESS OTHERWISE NOTED. COORDINATE WORK WITH ARCHITECT.
- ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LABELED BY UNDERWRITERS LABORATORIES OR OTHER APPROVED LISTING AGENCY. APPROVED AND LABELING OF INDIVIDUAL COMPONENTS ON AN ASSEMBLY IS NOT ACCEPTABLE AS MEETING THIS REQUIREMENT, UNLESS WAIVED BY THE ARCHITECT IN WRITING.
- ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE OR SUB-SERVICE FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRIC LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC. OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENTS SHALL APPLY.
- ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, SUPPORT FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES, EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT AND CONSENT OF THE OTHER TRADE, IN WRITING.
- WHERE INTERRUPTING AN EXISTING UTILITY OR SERVICE DELIBERATELY OR ACCIDENTALLY THE RESPONSIBLE CONTRACTOR SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS NEEDED.
- WHERE PENETRATING NEW ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATION IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING INSTALLER/ARCHITECT.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES, CASH CONTRIBUTIONS OR OTHER COSTS THAT THE UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (ELECTRIC, TELEPHONE, TELEVISION, ETC.)
- DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ARCHITECT OR NOT SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR, UTILITY COMPANY, ARCHITECT, AND OWNER AS NECESSARY. WITH AT LEAST ONE WEEK IN ADVANCE OF ANTICIPATED INTERRUPTION, A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN PARTIES MENTIONED, TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED TWO WEEKS IN ADVANCE, IN WRITING. IF UTILITY COMPANY REQUIRES A LONGER NOTIFICATION PERIOD, SO PROVIDE.
- ALL WORK SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, OR REQUIRED TO BE EXPOSED. IF IN DOUBT, CONTACT THE ARCHITECT FOR CLARIFICATION PRIOR TO INSTALLING ANY SUCH WORK.
- DO NOT SCALE FROM DRAWINGS, AS PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONED SUPPLIED TO THE CONTRACTOR.
- IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE, INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTING CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS' CONVENIENCE AND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.
- ALL WORK SHOWN ON DRAWINGS (EQUIPMENT, DUCTWORK, PIPING FIXTURES, RACEWAYS, WIRING, ETC.) ARE NEW, TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
- ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE. COORDINATION WITH ALL TRADES WILL BE REQUIRED.
- REFER TO DOMESTIC WATER RISER DIAGRAM FOR LOCATIONS OF ALL VALVES AND ACCESSORIES TO BE INSTALLED.
- WATER HAMMER ARRESTORS, TRAP PRIMERS, VALVES, ETC. SHALL BE ACCESSIBLE. PROVIDE ACCESS PANELS WHERE ANY ITEM IS INSTALLED IN AN INACCESSIBLE SPACE.
- INSULATE HOT AND COLD WATER IN ACCORDANCE WITH FLORIDA ENERGY EFFICIENCY CODE.
- METALLIC PIPING SHALL BE INSTALLED IN FIRE RATED WALL. (TYPICAL)
- SEAL ALL PIPING PENETRATIONS WITH NON-SHRINK MASTIC.
- DOMESTIC WATER PIPING WITHIN 5 FEET OF THE BUILDING SEWER/DRAIN PIPING IS TO BE A MINIMUM OF 12 INCHES ABOVE THE HIGHEST POINT OF THE BUILDING SEWER/DRAIN PIPING AND THE PIPE MATERIALS MUST CONFORM TO SECTION 703.1 OF THE FLORIDA BUILDING CODE 2017 - PLUMBING.
- PLUMBING CONTRACTOR SHALL COORDINATE UNDERGROUND PIPING WITH BUILDING FOUNDATION.
- WHERE PIPING PENETRATES FOOTING, REFER TO STRUCTURAL DRAWINGS FOR SLEEVING METHODS.
- WHERE INVERT ELEVATIONS ARE HIGHER ON PLUMBING DRAWINGS, PLUMBING CONTRACTOR SHALL INSTALL PIPING AS PER THE PLUMBING CONTRACT DRAWINGS AND PROVIDE A 45' DROP TO MEET THE CIVIL ENGINEERS POINT OF CONNECTION. IF ANY CONFLICTS ARISE WHERE CIVIL ENGINEERS' POINT OF CONNECTIONS ARE SHALLOWER THAN ON THE PLUMBING CONTRACT DOCUMENTS, PLUMBING CONTRACTOR SHALL CONTACT THE ARCHITECT/ENGINEER.
- EMERGENCY CLASS ROOM CONTROL BOX SHALL BE SIMILAR TO ISMET "S" SERIES ENCLOSURES. REFER TO PLANS AND RISER DIAGRAMS FOR PIPE SIZES AND QUANTITY OF PIPES. SOLENOID VALVES SHALL BE 24v AS INDICATED ON PLANS.
- SUPPLY AND TRAP WRAPS SHALL BE PROVIDED AT ADA LAVATORIES AND SINKS WHERE PIPING IS EXPOSED.
- WHERE PIPING IS NEAR ROOF ACCESS HATCH CONTRACTOR SHALL ROUTE ALL PIPING TO CLEAR ALL LADDERS AND OPENINGS.
- COORDINATE VENT THRU ROOF WITH ALL EQUIPMENT. WHERE PIPING IS WITHIN 10'-0" OF EQUIPMENT, LOUVERS ECT. VENT THRU ROOF SHALL BE MOVED TO MAINTAIN A 10'-0" CLEARANCE OF OUTSIDE AIR OPENING.
- WHEN NONMETALLIC PIPE IS USED IN COMBINATION SYSTEMS UTILIZING STEEL PIPING INTERNALLY COATED WITH CORROSION INHIBITORS AND NONMETALLIC PIPING, THE STEEL PIPE COATING SHALL BE INVESTIGATED FOR COMPATIBILITY WITH THE NONMETALLIC PIPING BY A TESTING LABORATORY.
- WHEN FABRICATING STEEL PIPE FOR A COMBINATION (CPVC-STEEL) SYSTEM, THE CUTTING OIL AND LUBRICANTS CAN CAUSE PERFORMANCE DEGRADATION OF THE CPVC PIPING. CUTTING OILS AND LUBRICANTS FOUND TO BE COMPATIBLE ARE AVAILABLE AND SHALL BE USED.
- WHEN NONMETALLIC PIPE IS USED IN COMBINATION SYSTEMS UTILIZING STEEL PIPE THAT IS NOT INTERNALLY COATED WITH CHEMICAL CORROSION INHIBITORS, NO ADDITIONAL EVALUATIONS SHALL BE REQUIRED.
- WHEN NONMETALLIC PIPE IS USED IN COMBINATION SYSTEMS UTILIZING STEEL PIPE, CUTTING OILS AND LUBRICANTS USED FOR FABRICATION OF THE STEEL PIPING SHALL BE COMPATIBLE WITH THE NONMETALLIC PIPE MATERIALS.
- FIRE-STOPPING MATERIALS INTENDED FOR USE ON NONMETALLIC PIPING PENETRATIONS SHALL BE INVESTIGATED FOR COMPATIBILITY WITH THE NONMETALLIC PIPE MATERIALS.
- ALL CPVC PIPING, FITTINGS AND SOLVENTS SHALL BE FROM A SINGLE MANUFACTURER. MIXING OF MANUFACTURERS IS NOT ALLOWED OR PERMITTED.
- CPVC PIPING INSTALLATION SHALL BE IN CONFORMANCE WITH MANUFACTURES SPECIFICATIONS AND GUIDELINES.
- WATER HAMMER TO BE INSTALLED IN ALL QUICK OPENING FIXTURES.
- PROVIDE LABELS FOR SANITARY, VENT, STORM, CONDENSATE AND GAS PIPING PER 2017 FBC APPENDIX C.

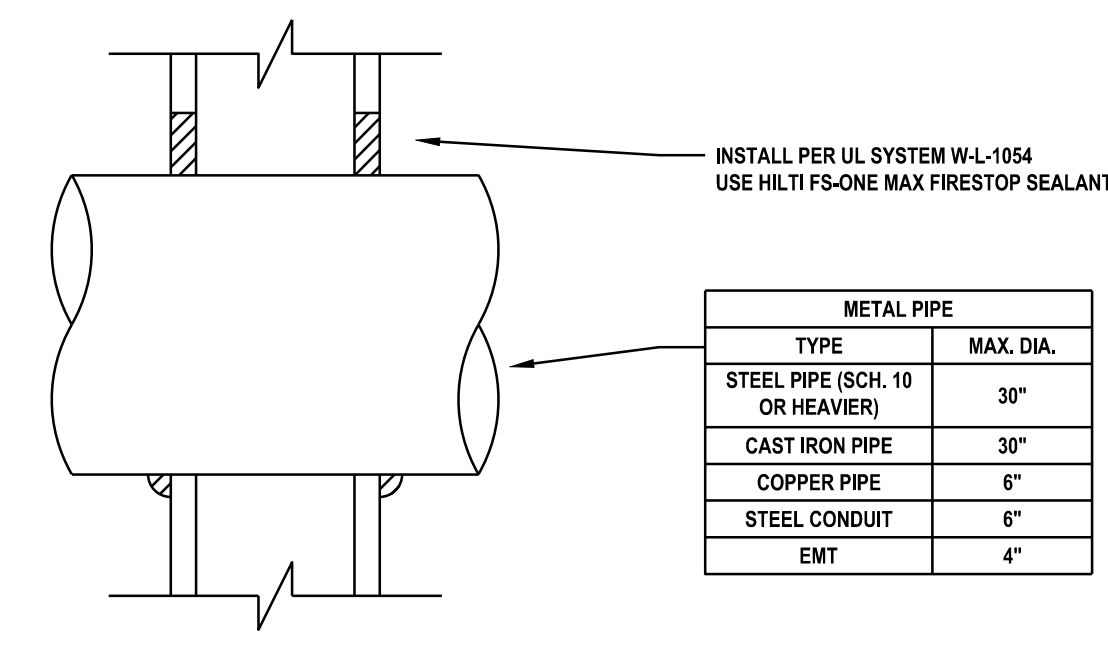
ABBREVIATIONS

APPROX	APPROXIMATELY
BFF	BELOW FINISHED FLOOR
CFH	CUBIC FEET PER HOUR
CO	CLEAN-OUT
COND	CONDENSATE OR CONDENSER
CW	DOMESTIC COLD WATER
DF	DRINKING FOUNTAIN
DN	DOWN
ECO	EXTERIOR CLEANOUT
EMC	ELECTRIC WATER COOLER
EMH	ELECTRIC WATER HEATER
EL	ELEVATION
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
G	GAS (LP)
GPM	GALLONS PER MINUTE
GR	GREASE WASTE LINE
GWH	GAS WATER HEATER
HB	HOSE BIBB
HD	HUB DRAIN
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
IWH	INSTANTANEOUS WATER HEATER
L	LAVATORY
LP	LIQUID PROPANE GAS
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
MS	MOP SINK
RCP	RECIRCULATING PUMP (HWR)
RM	ROOM
S	SINK
SH	SHOWER
ST	STORAGE TANK (HOT WATER)
TP	TYPICAL
TV	TEMPERING VALVE (THERMOSTATIC)
VTR	VENT THRU ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WMB	WASHER WALL BOX

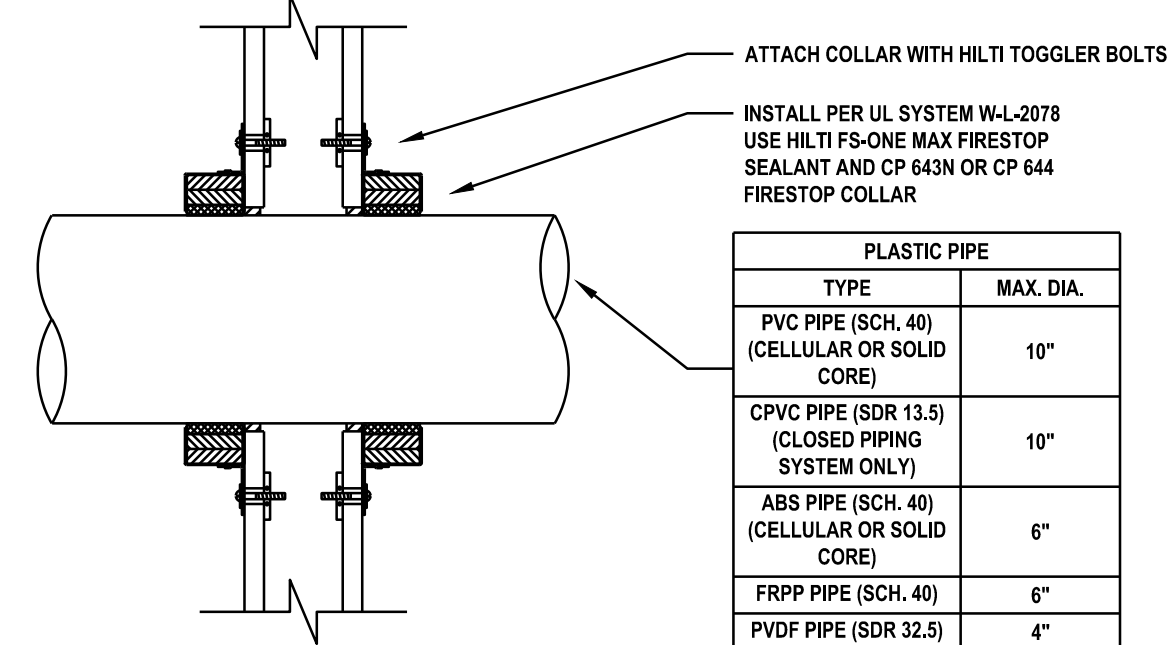
GENERAL LEGEND

	DIRECTION OF FLOW IN PIPE
	PIPE UP
	PIPE DOWN
	BALL VALVE
	CHECK VALVE, HORIZONTAL SWING
	GATE VALVE
	BALANCING VALVE
	GAS COOK, GAS STOP
	VALVE IN SERVICE BOX WITH CAST IRON VALVE BOX
	SOLENOID VALVE
	FCO
	ECO
	EXTERIOR 2-WAY CLEANOUT
	WCO
	CO
	CAPPED LINE
	HOT WATER RECIRCULATOR PUMP
	HOSE BIBB
	FLOOR DRAIN
	WATER HAMMER
	PIPE SLEEVE
	CW
	FW
	DOMESTIC HOT WATER PIPING (110')
	DOMESTIC HOT WATER RETURN PIPING
	SAN
	SAN F
	SAN FR
	ST
	GR
	VENT PIPING
	CA
	DETAIL OR RISER DESIGNATION
	SHEET WHERE DETAIL OR RISER APPEAR

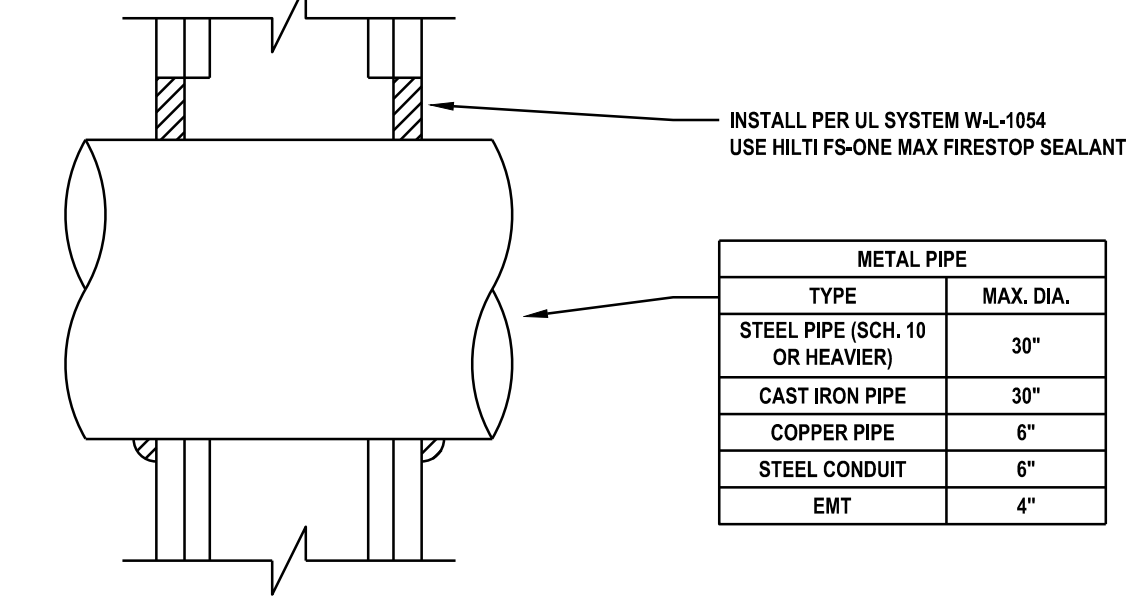
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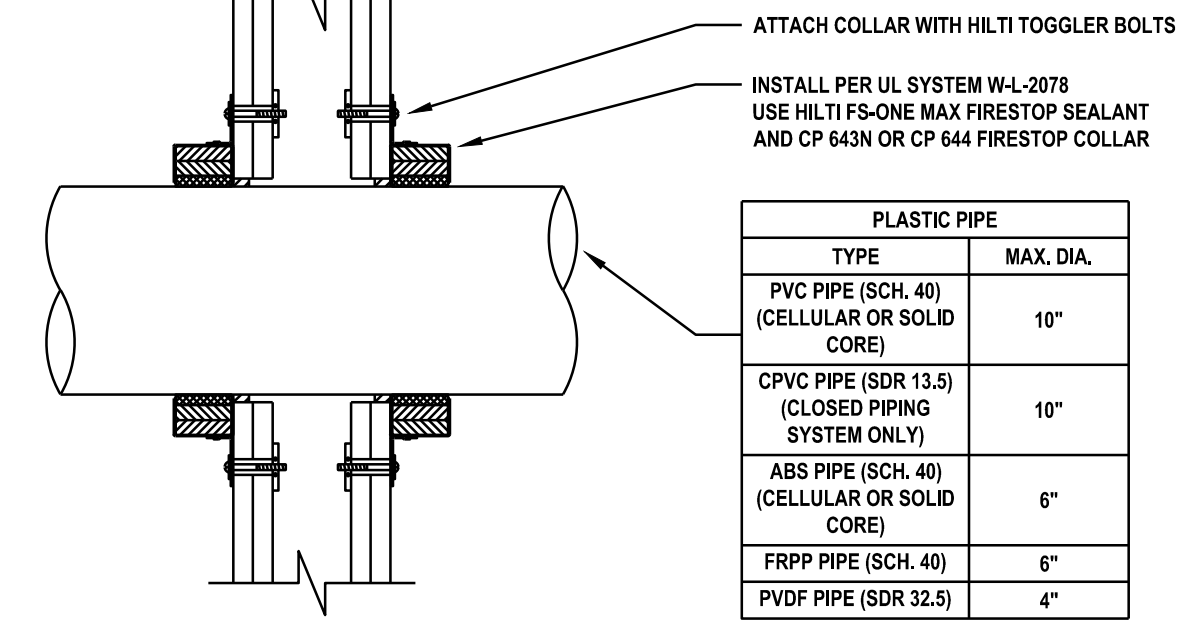
METAL PIPE THROUGH GYPSUM WALL ASSEMBLY (1-HR.)
NTS



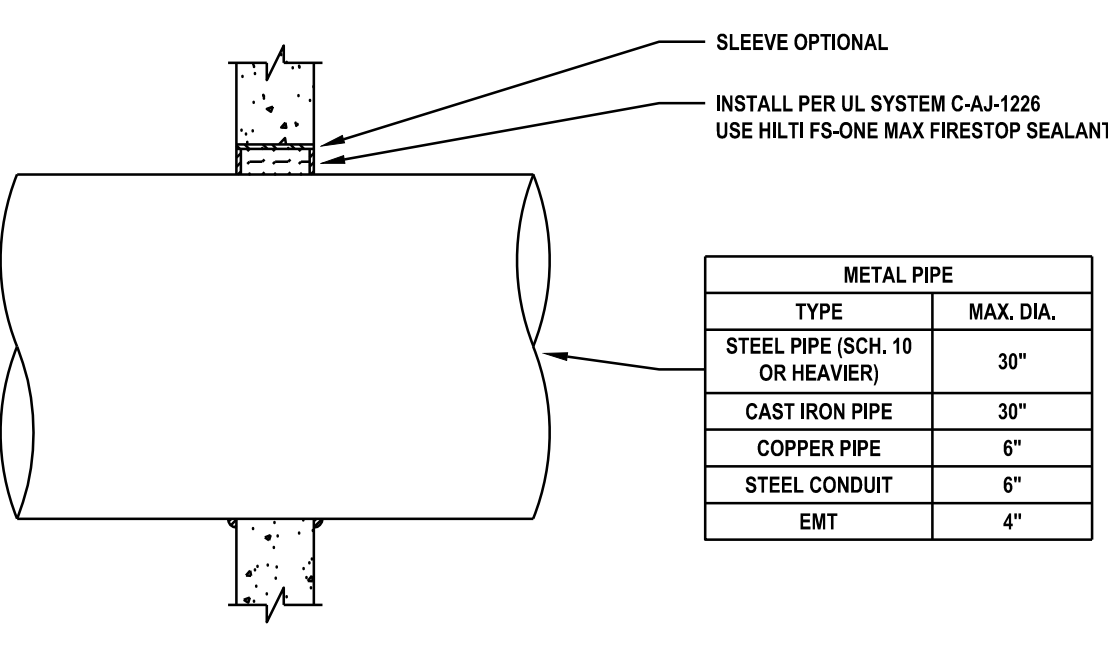
PLASTIC PIPE THROUGH GYPSUM WALL ASSEMBLY (1-HR.)
NTS



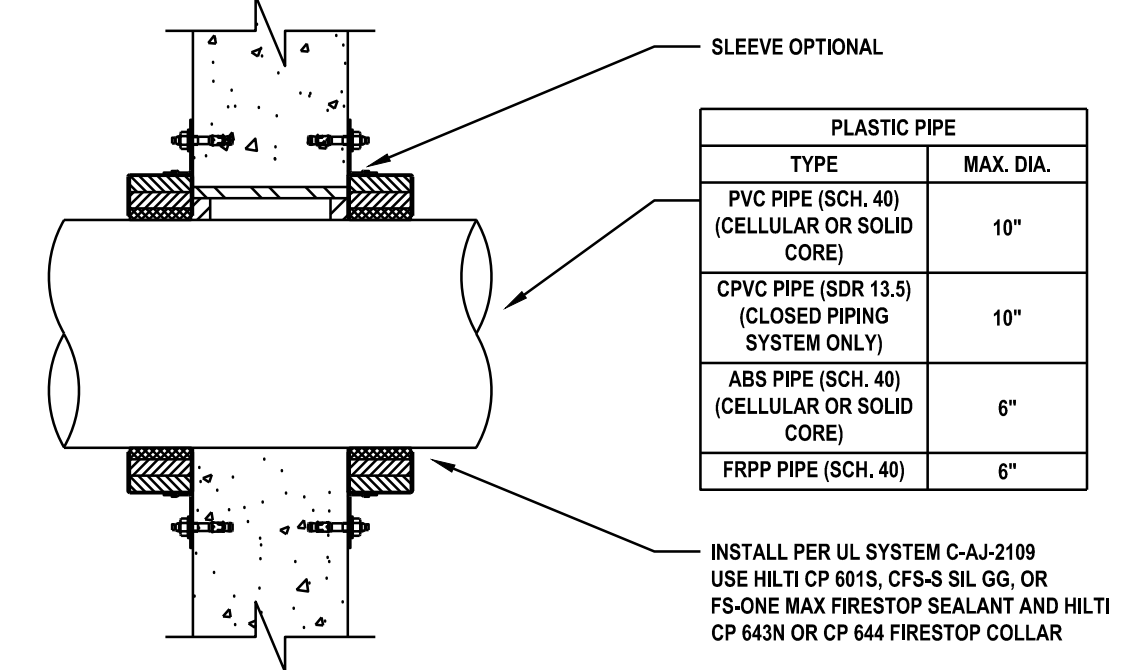
METAL PIPE THROUGH GYPSUM WALL ASSEMBLY (2-HR.)
NTS



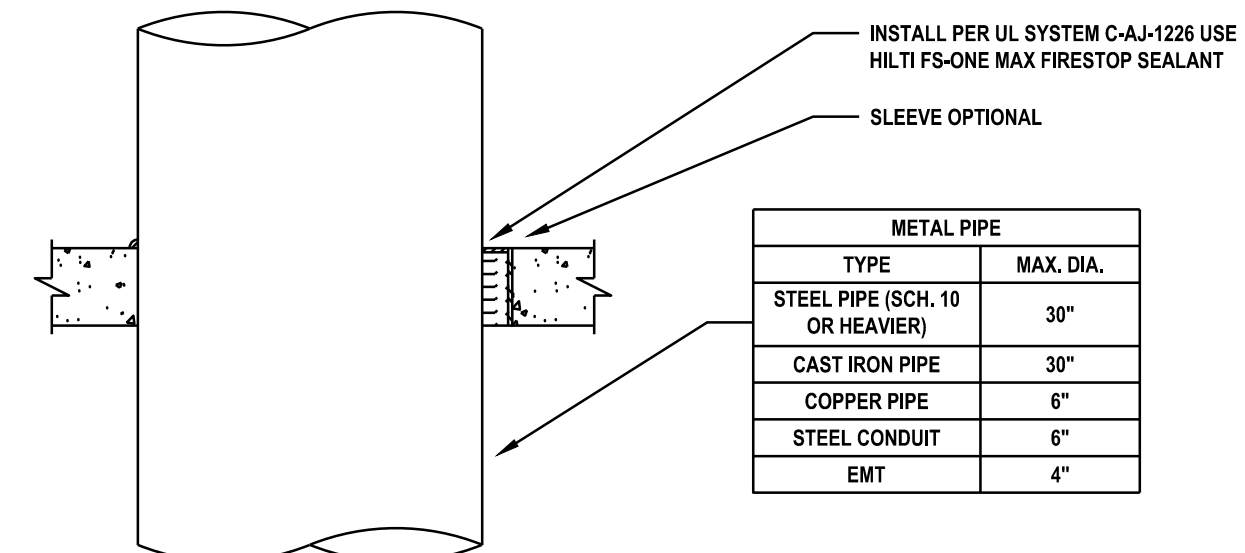
PLASTIC PIPE THROUGH GYPSUM WALL ASSEMBLY (2-HR.)
NTS



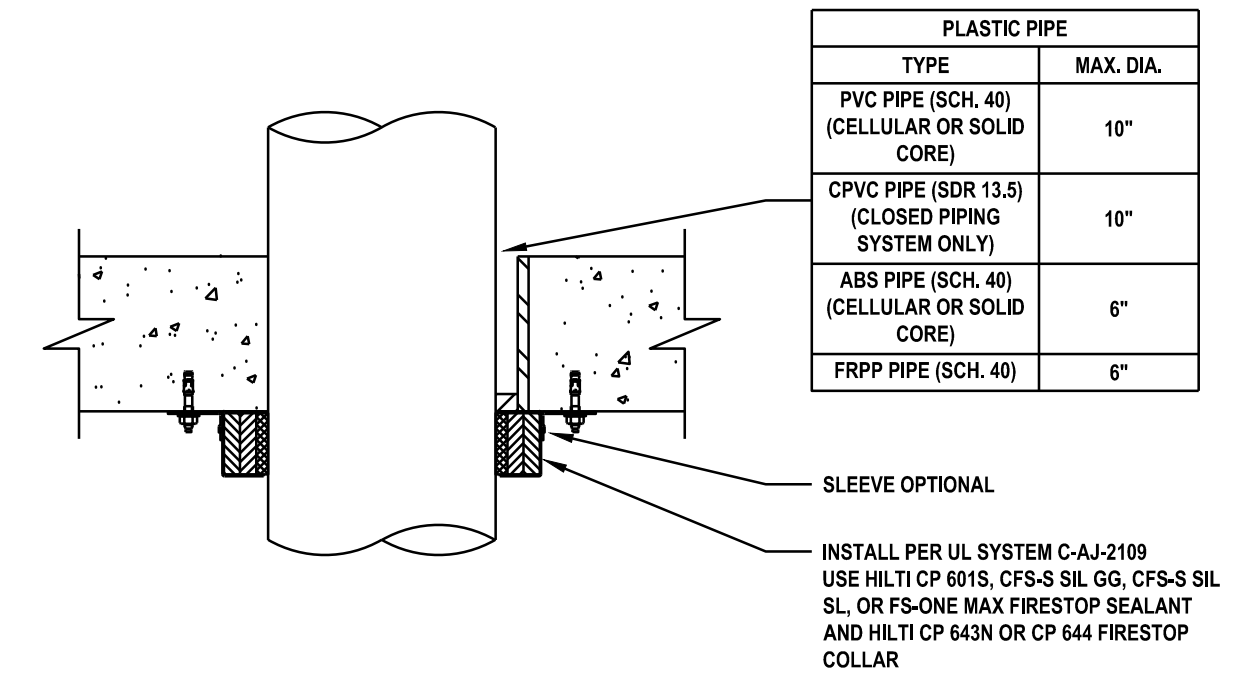
METAL PIPE THROUGH CONCRETE WALL (2-HR.)
NTS



PLASTIC PIPE THROUGH CONCRETE WALL (2-HR.)
NTS



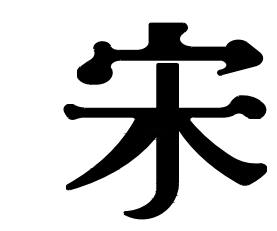
METAL PIPE THROUGH CONCRETE FLOOR (2-HR.)
NTS



PLASTIC PIPE THROUGH CONCRETE FLOOR (2-HR.)
NTS

PENETRATION DETAILS
NTS

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THE SCHOOL DISTRICT OF INDIAN RIVER COUNTY
OFFICE OF FACILITIES & CONSTRUCTION



SINGLE POINT OF ENTRY RENOVATION

FELLSMERE
ELEMENTARY SCHOOL
50 N CYPRESS ST.
FELLSMERE, FL 32948

Revisions :

Date : 01/10/2019

S+A Project No : 18031

Owner Project No :

Drawn By : DZ

Checked By : XX

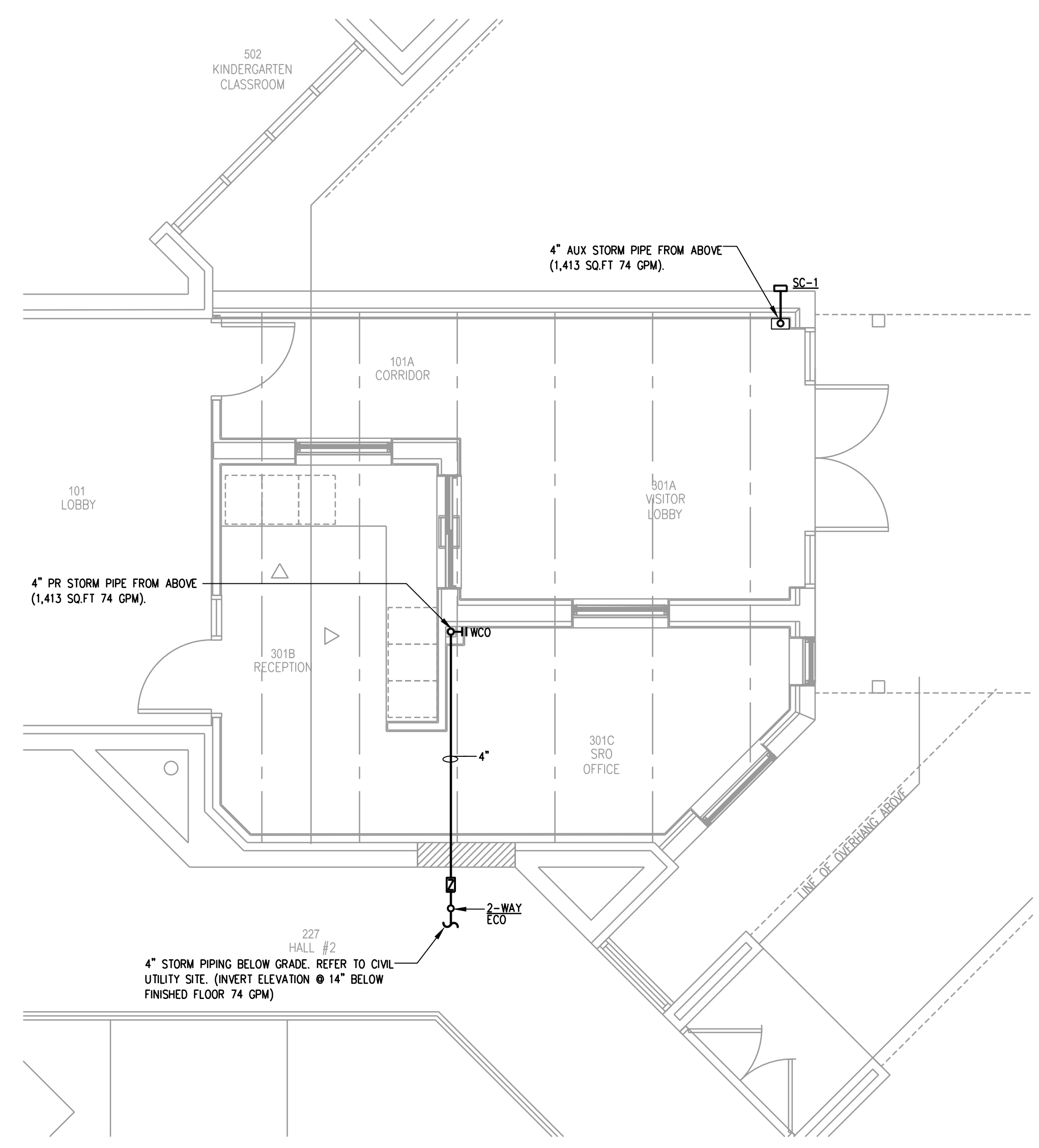
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100% CONSTRUCTION DOCUMENTS

Sheet Title :

NEW FLOOR PLAN,
ROOF PLAN -
PLUMBING

Sheet # :

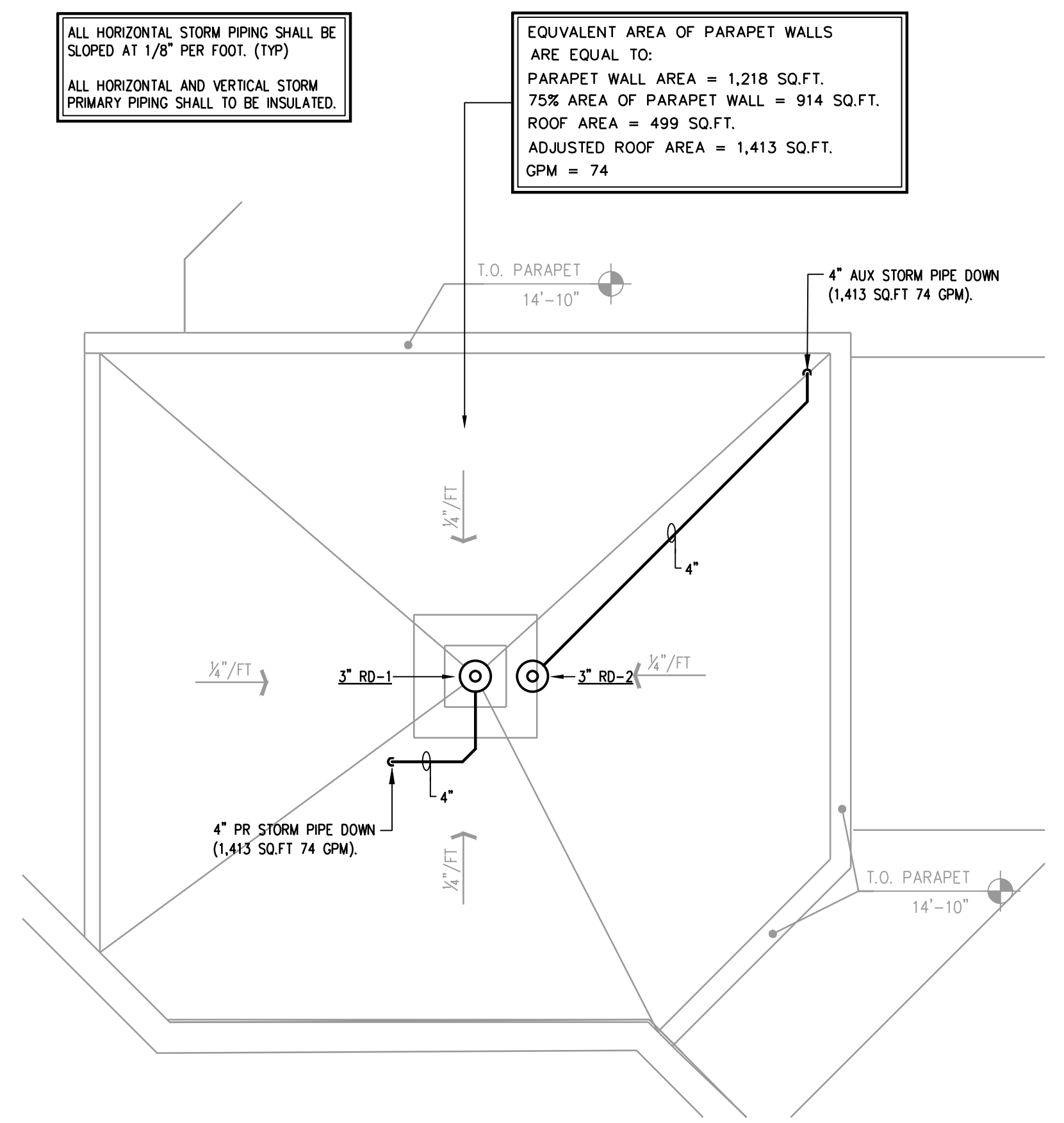
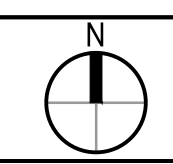
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PARTIAL NEW FLOOR PLAN - PLUMBING

02

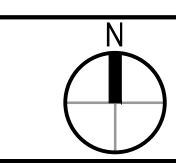
1/4"=1'-0"



PARTIAL ROOF PLAN - PLUMBING

03

1/4"=1'-0"



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15010 MECHANICAL REQUIREMENTS:

DO ALL WORK IN COMPLIANCE WITH ALL APPLICABLE CODES, LAWS AND ORDINANCES, THE STANDARD BUILDING CODE AND THE REGULATIONS OF THE LOCAL UTILITY COMPANIES. OBTAIN AND PAY FOR ANY AND ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES OF INSPECTIONS.

COOPERATE WITH OTHER TRADES AND CONTRACTORS AT JOB. PERFORM WORK IN SUCH MANNER AND AT SUCH TIMES AS NOT TO DELAY WORK OF OTHER TRADES.

OBTAIN MANUFACTURER'S DATA ON ALL EQUIPMENT, THE DIMENSIONS OF WHICH MAY AFFECT INSTALLATION. USE THIS DATA TO COORDINATE PROPER SERVICE CHARACTERISTICS, ENTRY LOCATIONS, ETC., AND TO INSURE MINIMUM CLEARANCES ARE MAINTAINED.

WORKMAN SHALL BE EXPERIENCED IN THEIR RESPECTIVE TRADE. WORKMANSHIP OF INSTALLED WORK SHALL BE FIRST CLASS AND WILL BE SO JUDGED. SUBSTANDARD WORK SHALL BE REMOVED AND REPLACED AT CONTRACTOR'S EXPENSE.

CONTRACTOR SHALL AND DOES HEREBY WARRANT ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THIS SECTION TO BE FREE FROM DEFECTS AND TO FUNCTION OR OPERATE SATISFACTORILY FOR ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK, AND THAT ANY ITEMS NOT MEETING THIS REQUIREMENT WILL BE MADE GOOD BY HIM WITHOUT ANY COST TO THE OWNER.

PROVIDE ONLY NEW, STANDARD FIRST-GRADE MATERIALS THROUGHOUT, CONFORMING TO STANDARDS ESTABLISHED BY UNDERWRITER LABORATORIES INC., AND SO MARKED AND LABELED, TOGETHER WITH MANUFACTURER'S BRAND OR TRADEMARK. ALL LIKE ITEMS SHALL BE OF ONE MANUFACTURER.

ALL WORK SHALL BE EXECUTED IN A MANNER THAT SHALL PRESENT A NEAT APPEARANCE UPON COMPLETION. CARE SHALL BE EXERCISED THAT ALL ITEMS ARE PLUMB, STRAIGHT AND LEVEL.

UPON COMPLETION OF WORK, ALL SYSTEMS SHALL BE TESTED, AND SHALL BE SHOWN TO BE IN PERFECT WORKING CONDITION IN ACCORDANCE WITH THE INTENT OF THE DRAWINGS.

ANY WALLS, CEILINGS, EQUIPMENT, ETC., DAMAGED BY THE CONTRACTOR IN CONSTRUCTION OF THIS PROJECT SHALL BE REPAIRED, RESTORED AND/OR REPLACED BY THE CONTRACTOR TO ITS ORIGINAL CONDITION, OR TO PERFORM ITS INTENDED FUNCTION, AT NO ADDITIONAL COST TO OWNER.

15055 PIPING:

PIPING SHALL BE NEW AND IN GOOD CONDITION. ALL PIPING SHALL CONFORM TO ALL APPLICABLE STATE, COUNTY AND LOCAL CODES.

DOMESTIC WATER PIPING ABOVE AND BELOW GRADE SHALL BE TYPE "L" COPPER WITH WROUGHT OR FORGED COPPER FITTINGS AND 95-5 SOLDER JOINTS.

SANITARY WASTE AND VENT PIPING ABOVE AND BELOW GRADE SHALL BE SCH. 40 PVC-DWV PIPE AND FITTINGS, ASTM D2665-82 (PVC AND ASTM D2661-82(DWV)). USE CAST IRON HUBLESS PIPE & FITTING IN RETURN AIR PLENUM CAVITY.

PIPING SHALL BE INSTALLED PARALLEL TO BUILDING LINES.

PIPING SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION. OFFSETS AS REQUIRED TO COORDINATE WITH STRUCTURE AND OTHER TRADES SHALL BE MADE AT NO ADDITIONAL COST.

PIPING SHALL BE TESTED IN ACCORDANCE WITH INDUSTRY ACCEPTED METHODS. LEAKS SHALL BE REPAIRED AND ANY LOST REFRIGERANT SHALL BE REPLACED AT NO ADDITIONAL COST.

DIELECTRIC UNIONS SHALL BE INSTALLED IN ALL COPPER AND FERROUS PIPING CONNECTIONS.

15891 DUCTWORK:

ALL DUCTWORK MATERIALS AND INSTALLATION SHALL CONFORM TO APPLICABLE STATE, COUNTY AND LOCAL CODES. DUCTWORK SHALL BE ALL NEW AND IN GOOD CONDITION.

DUCT DIMENSIONS NOTED ARE INSIDE DIMENSIONS AND DO NOT INCLUDE INSULATION OR LINER.

DUCTWORK SHALL BE INSTALLED TO AVOID CONFLICT WITH OTHER TRADES. ANY OFFSETS REQUIRED SHALL BE INSTALLED AT NO ADDITIONAL COST.

FABRICATE DUCTWORK FROM SHEET METAL. DUCT SHALL BE INSULATED WITH 2-1/2" DUCT WRAP INSULATION. DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA LOW PRESSURE DUCTWORK STANDARDS.

FABRICATE DUCTWORK FROM 1-1/2" FIBERGLASS DUCT BOARD EQUAL TO PITTSBURGH CORNING. ALL DUCT BOARD SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SMACNA STANDARDS FOR INSTALLATION OF FIBROUS GLASS DUCTWORK.

15990 TEST AND BALANCE:

CONTRACTOR SHALL BE CERTIFIED BY NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) OR BY ASSOCIATED AIR BALANCE COUNCIL (AABC).

TEST AND BALANCE ALL AIR SYSTEMS IN ACCORDANCE WITH AABC AND/OR NEBB REQUIREMENTS. ALL EQUIPMENT USED FOR TESTING SHALL BE IN PROPER WORKING ORDER.

THE CONTRACTOR SHALL REGULATE AND ADJUST ALL SPLITTERS, DEFLECTORS AND DAMPERS SO THAT THE INLET OR OUTLET SHALL DELIVER OR REMOVE THE REQUIRED NUMBER OF CUBIC FEET OF AIR PER MINUTE (CFM) AT THE RESPECTIVE OPENINGS.

ALL TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE CONSTRUCTION SUPERINTENDENT, OR HIS REPRESENTATIVE.

THE CONTRACTOR SHALL FURNISH ALL INSTRUMENTS, TESTING EQUIPMENT AND PERSONNEL THAT MAY BE REQUIRED FOR THE TESTS.

15991 VIBRATION AND NOISE:

PROVIDE VIBRATION ISOLATORS AND ACOUSTIC INSULATION AS REQUIRED TO ELIMINATE ANY OBJECTIONABLE NOISE OR VIBRATION.

AIR DISTRIBUTION DEVICE SCHEDULE

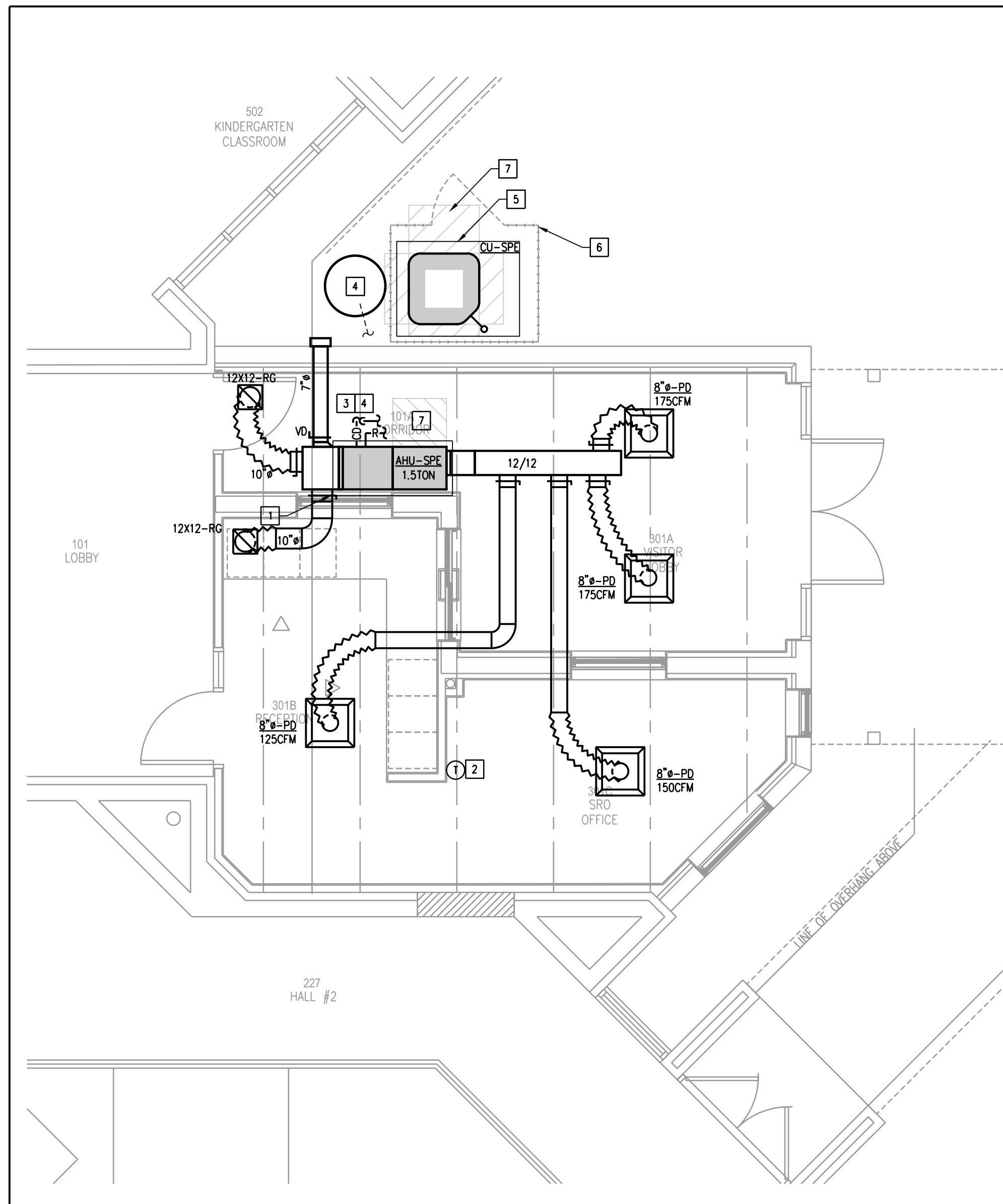
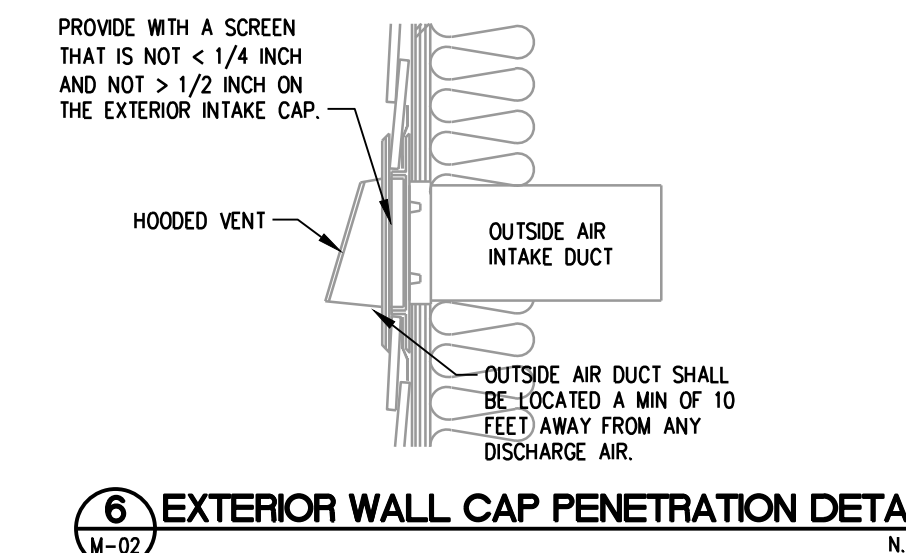
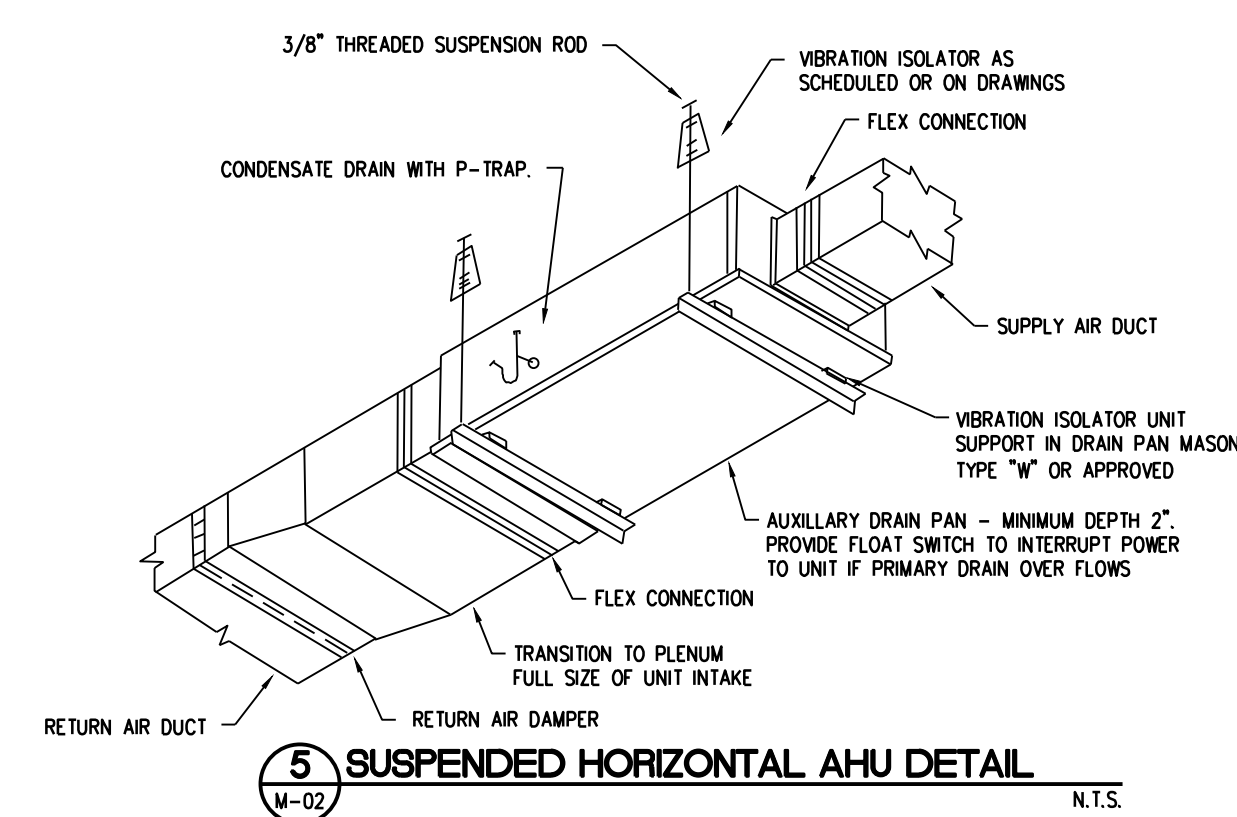
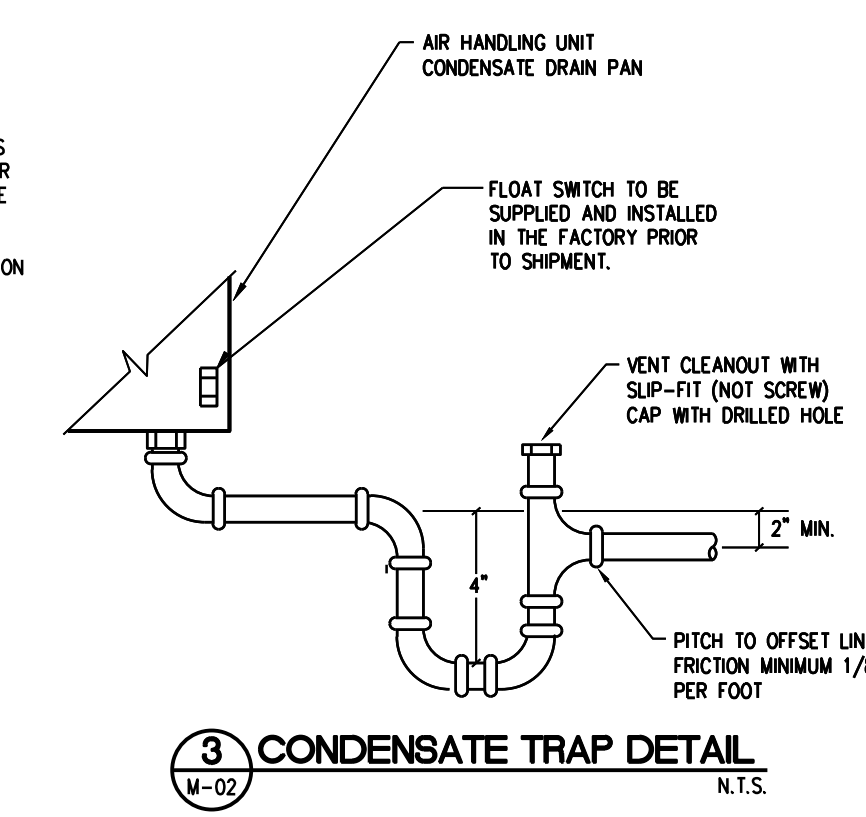
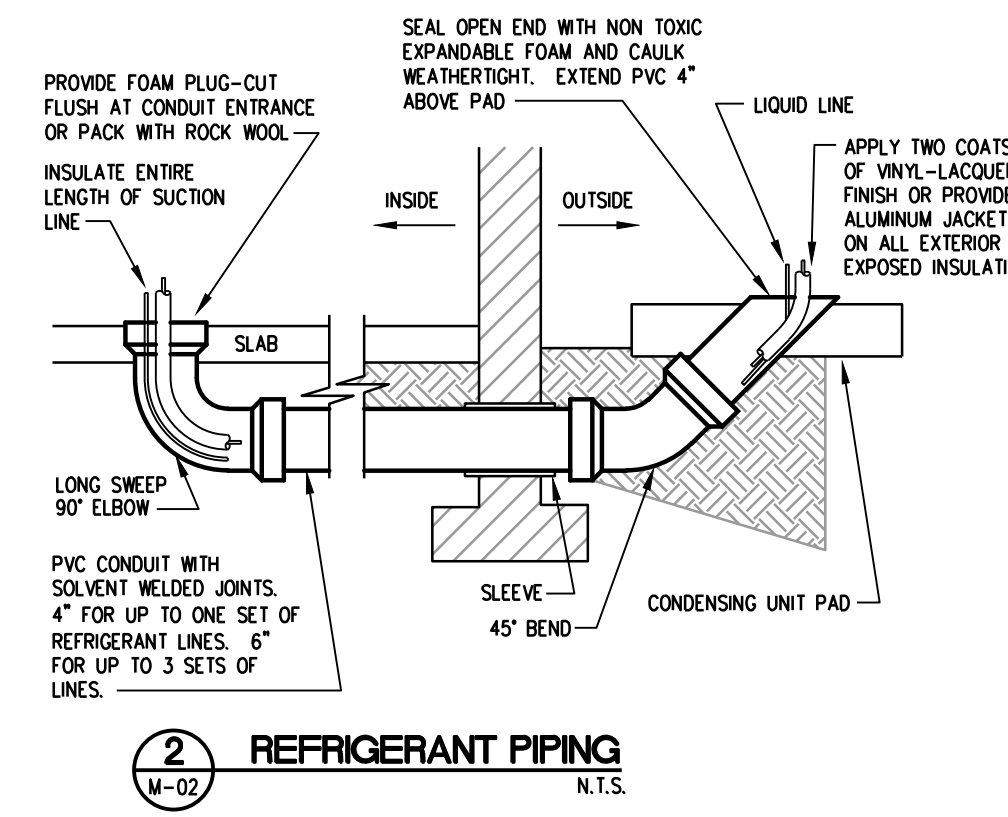
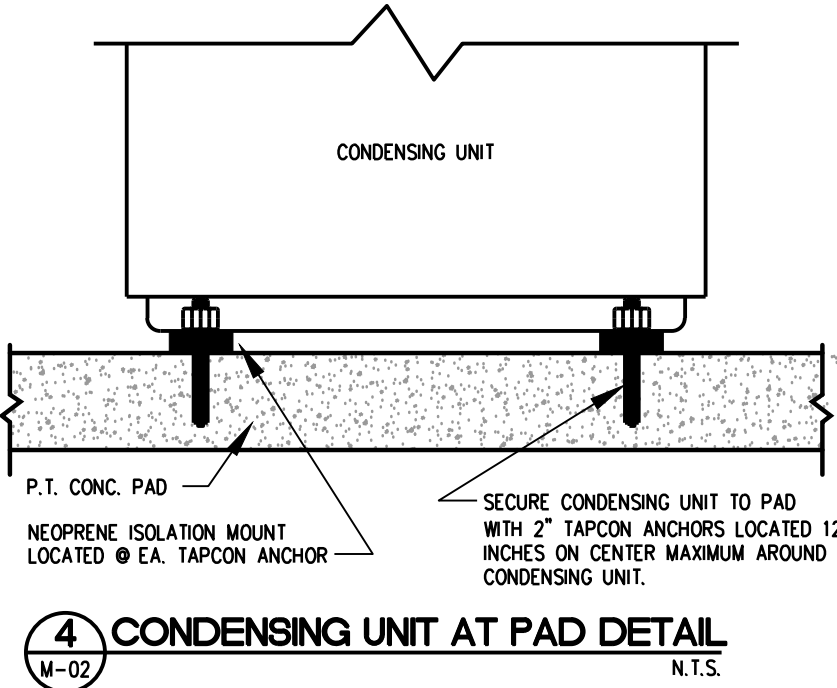
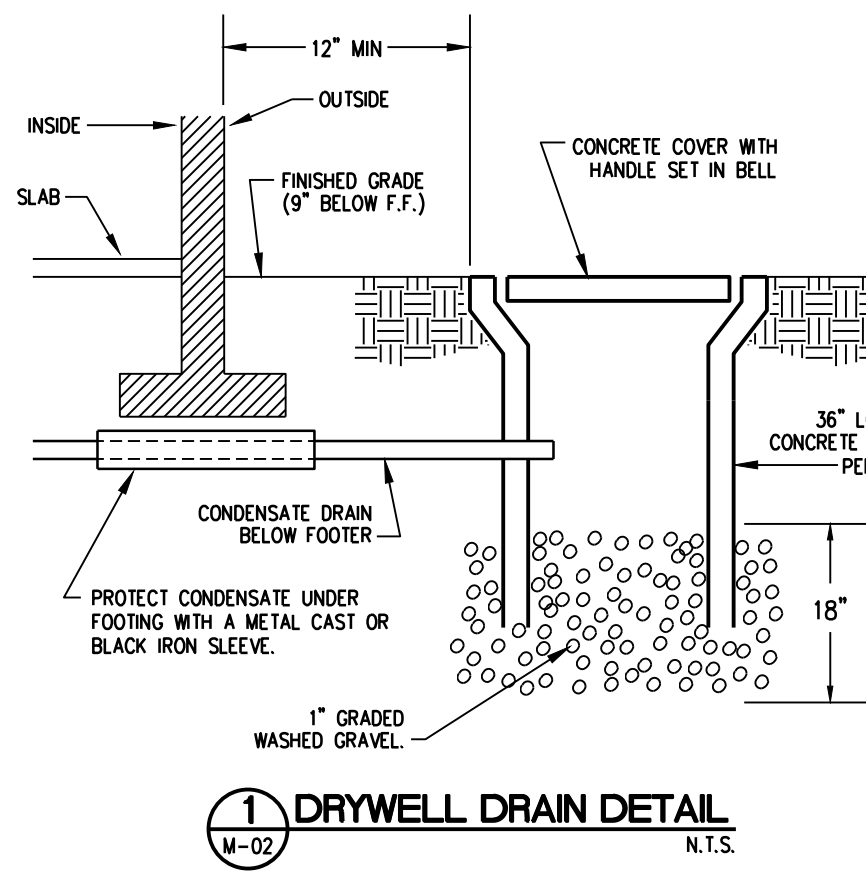
MARK / LEGEND	TYPE	MFG.	MODEL	NOTES
LENGTH → 10'8"-PD AIR QUANTITY → 200CFM	24X24 CEILING MOUNTED SQUARE PLAQUE DIFFUSER	PRICE	ASPD	(2)(4)(5)(6)(7)(8)
NECK SIZE → 12X12-RG AIR QUANTITY → 200CFM	CEILING MOUNTED RETURN AIR GRILLE	PRICE	630	(1)(2)(3)(5)(6)(8)

- NOTES:
- PROVIDE WITH OPPOSED BLADE VOLUME DAMPER.
 - ALL DIFFUSERS / GRILLES INSTALLED IN LAYIN TILE CEILINGS SHALL HAVE LAYIN STYLE BORDERS WITH FULL 24X24 MODULES. GRILLES LOCATED IN PARTIAL TILE SPACES SHALL BE PROVIDED WITH 24X12 MODULE SIZE.
 - ALL RETURN GRILLES ARE 22X22 FULLY LOUVERED FACE UNLESS NOTED OTHERWISE ON THE PLANS.
 - PROVIDE SQUARE TO ROUND NECK TRANSITION WHERE APPLICABLE.
 - COORDINATE BORDER TYPES WITH ARCHITECTURAL FLOOR PLAN AND REFLECTED CEILING PLAN.
 - COORDINATE FINISH WITH ARCHITECT.
 - COORDINATE THROW PATTERN WITH FLOOR PLANS.
 - PRIME AND PAINT TO MATCH ADJACENT SURFACES.

SPLIT SYSTEM AIR HANDLING UNIT SCHEDULE

MARK	AHU-SPE / CU-SPE	AREA SERVED	SINGLE POINT ENTRY
		AIR FLOW (CFM)	700
		OUTSIDE AIR (CFM)	100
		TONNAGE	2.0
INDOOR UNIT			
FAN DATA	AIR FLOW (CFM)	700	
	ESP (IN H2O)	0.5	
	FAN SPEED	VARIABLE	
	HP (WATTS)	0.33	
	VOLTAGE/PHASE	208/1	
HEATER	FLA (FAN)	2.8	
	TYPE	ELECTRIC	
	KW	3.6	
	# OF STEPS	1	
	VOLTAGE/PHASE	208/1	
COOLING CAPACITY	MCA	25.0	
	MOC	25	
	WEIGHT (LBS.)	155	
	OA ENTERING AIR TEMP (DB)	92.0	
	OA ENTERING AIR TEMP (WB)	79.0	
	RETURN AIR TEMP (DB)	75.0	
	RETURN AIR TEMP (WB)	62.5	
	LEAVING AIR TEMP (DB)	55.0	
	LEAVING AIR TEMP (WB)	55.0	
	TOTAL CAPACITY (MBH)	24.4	
SENSIBLE CAPACITY (MBH)	17.1		
OUTDOOR UNIT	QUANTITY OF FANS	1	
	VOLTAGE/PHASE	208/1	
	FLA (EACH)	0.74	
EFFICIENCY RATINGS	QUANTITY	1	
	VOLTAGE/PHASE	208/1	
	FLA (EACH)	13.0	
DESIGN BASIS	MCA	18.0	
	MOC	20	
	WEIGHT (LBS.)	250	
INDOOR UNIT	EER		
	SEER (IEER)	16.5	
OUTDOOR UNIT	AHRI #	8626099	
	MANUFACTURER	TRANE	
	MODEL	TEM6A0B24	
	MANUFACTURER	TRANE	
	MODEL	4TTR6024A	
NOTES:	ALL		

- NOTES:
- COORDINATE REFRIGERANT PIPING LENGTH WITH MANUFACTURER.
 - PROVIDE WITH ALL REQUIRED ACCESSORIES FOR SPECIFIC INSTALLATION.
 - PROVIDE WITH A SINGLE POINT OF CONNECTION FOR ELECTRIC HEATER AND FAN FOR INDOOR UNIT.
 - PROVIDE ALL COILS WITH SEA COAST PROTECTION THAT IS RATED FOR 5000 HOURS OF EXPOSURE.
- General: EACH AIR HANDLER AND ASSOCIATED CONDENSING UNIT SHALL BE PROVIDED WITH AN ENGRAVED NAMEPLATE SHOWING SPECIFIC UNIT DESIGNATION.



H.V.A.C. KEYNOTES:

- PROVIDE AUXILIARY DRAIN PAN UNDER AIR HANDLING UNIT MOUNTED ABOVE CEILING. PAN SHALL BE 2" DEEP AND EXTEND 2' BEYOND AIR HANDLING UNIT ON ALL SIDES. PROVIDE FLOAT SWITCH IN AUXILIARY DRAIN PAN, INTERLOCKED WITH UNIT SUPPLY FAN TO SHUT THE UNIT DOWN WHEN WATER LEVEL IN PAN EXCEEDS 1/2".
- MOUNT THERMOSTAT 4'-0" ABOVE FINISHED FLOOR.
- REFRIGERANT LINES. INSULATE SUCTION. ROUTE FROM AHU, DOWN IN WALL, BELOW GRADE, AND UP THRU CU PAD. ROUTE IN PVC CHASE BELOW GRADE. CHASE SHALL BE SIZED AS TO NOT ALLOW INSULATION TO BE COMPRESSED BEYOND ALLOWANCES. SEAL STUB-UP OF THE PVC AT THE CU PAD WITH FOAM AND CAULK. PROTECT EXPOSED INSULATION WITH 2 COATS OF VINYL LACQUER FINISH. REFER TO DETAIL FOR REFRIGERANT PIPING DETAIL. SIZE AND INSULATE PER MANUFACTURER'S RECOMMENDATIONS.
- 3/4" PVC CONDENSATE DRAIN LINE. ROUTE FROM AHU WITH TRAP, DOWN IN WALL, AND BELOW GRADE TO TERMINATE AT DRYWELL. INSULATE WHERE INSIDE BUILDING.
- PROVIDE 4" THICK CONCRETE HOUSEKEEPING PAD UNDER CONDENSING UNITS. PAD SHALL EXTEND A MINIMUM OF 6" BEYOND EQUIPMENT ON ALL SIDES. REFRIGERANT PIPING SHALL RISE UP FROM UNDERGROUND IN PAD AREA. VERIFY AND MAINTAIN CLEARANCES AROUND EQUIPMENT FOR SERVICE AND AIRFLOW WITH THE MANUFACTURER OF THE EQUIPMENT SUPPLIED.
- PROVIDE FENCING AROUND CONDENSING UNITS. COORDINATE WITH ARCHITECTURAL.
- AREAS INDICATED ARE ELECTRICAL CLEARANCES PER MANUFACTURER. COORDINATE FINAL UNIT SELECTION TO ENSURE COMPLIANCE IS STILL MAINTAINED.

宋

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THE SCHOOL DISTRICT OF INDIAN RIVER COUNTY
OFFICE OF FACILITIES & CONSTRUCTION



SINGLE POINT OF ENTRY RENOVATION

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Drawn By: JD
Checked By: JLS

Phase:
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Sheet Title:

DEMOLITION & NEW FLOOR PLAN, ROOF PLAN - H.V.A.C.

Sheet #:

M-02

PARTIAL NEW FLOOR PLAN - H.V.A.C.

02

1/4" = 1'-0"



MASTER ELECTRICAL SYMBOLS LEGEND

NOTE: THESE ARE STANDARD SYMBOLS AND ALL MAY NOT APPEAR ON THE PROJECT DRAWINGS. REFER TO SPECIFICATIONS FOR MOUNTING HEIGHTS.

LIGHTING

NOTE:
(EM) DENOTES FIXTURE WITH BATTERY BALLAST

- FLUORESCENT FIXTURE - CEILING MOUNTED
- FLUORESCENT FIXTURE - CEILING MOUNTED, LIFE SAFETY BRANCH
- HID, FLUORESCENT OR INCANDESCENT FIXTURE - RECESSED

- UNIVERSAL MOUNTING EXIT LIGHTS, SINGLE AND DOUBLE FACED, ARROWS AS SHOWN ON FLOOR PLANS
- WALL MOUNTED EXIT LIGHTS, SINGLE FACED

SWITCHES

- LOWER CASE SUBSCRIPTS INDICATE OUTLET CONTROLLED
- SINGLE POLE SWITCH (UNLESS NOTED BY SUBSCRIPT)
 - * (2) DOUBLE POLE
 - (3) WAY
 - (4) DIMMER SWITCH (1500W UNLESS NOTED)
 - (1) SINGLE PHASE MOTOR STARTING SWITCH
 - (OS) OCCUPANCY SENSOR
 - (P) MULTI-BUTTON LIGHTING CONTROL PANEL
- OCCUPANCY SENSOR, LOW VOLTAGE - CEILING MOUNTED, OC SENSOR SHALL
- DAYLIGHT SENSOR, LOW VOLTAGE - CEILING MOUNTED

CONDUIT AND WIRE

- CONDUIT CONCEALED IN WALLS OR ABOVE CEILINGS
- CONDUIT CONCEALED UNDERGROUND OR IN SLAB
- CONDUIT HOMERUN - CONDUCTORS ARE #12 AWG CU UNLESS OTHERWISE INDICATED. (SEE SPECIFICATIONS FOR DERATING OF CONDUCTORS BASED ON CIRCUIT LENGTH AND CONDUCTORS IN A CONDUIT)
- CONDUIT EXPOSED ON WALLS OR CEILINGS
- EXISTING CONDUIT
- CONDUIT TURNED UP OR DOWN IN WALL

RECEPTACLES

- DUPLEX RECEPTACLE
 - * (C) DUPLEX GFCI RECEPTACLE
 - (O) DUPLEX ISOLATED GROUND RECEPTACLE (EWC) ELECTRIC WATER COOLER, COORDINATE LOCATION WITH PLUMBING INSTALLER. LOCATE GFCI RECEPTACLE CENTERED UP UNDER COOLER (WPG) DUPLEX GFCI RECEPTACLE, WEATHERPROOF COVER
- DUPLEX RECEPTACLE, MOUNT 4" ABOVE COUNTER OR BACKSPLASH, MAXIMUM 48" TO CENTER.
- QUADRAPLEX RECEPTACLE IN TWO GANG BOX COVER.
- DUPLEX RECEPTACLE IN FLOOR BOX.
- QUADRAPLEX RECEPTACLE, MOUNT 4" ABOVE COUNTER OR BACKSPLASH, MAXIMUM 48" TO CENTER.

FIRE ALARM SYSTEM

NOTE:
(D) DENOTES DUCT MOUNTED
(C) DENOTES CEILING MOUNTED
(F) DENOTES FLUSH WALL MOUNTED
(UF) DENOTES UNDER FLOOR ACCESS
(WP) DENOTES WEATHERPROTECTED

- SMOKE DETECTOR - PHOTO
- SIGNALING HORN
 - * (V) WITH VISUAL SIGNAL (STROBE, 75CD UNLESS NOTED)

INTERCOM SYSTEM

- INTERCOM CEILING SPEAKER
- INTERCOM SYSTEM RACEWAY
- INTERCOM EQUIPMENT PANEL

SECURITY SYSTEM

- SECURITY VIDEO CAMERA
 - * (C) CEILING MOUNTED
 - (W) WALL MOUNTED
 - (PT) PAN AND TILT TYPE
 - (WP) WEATHERPROOF

TECHNOLOGY

- TECHNOLOGY OUTLET, FLUSH WALL MTD. 18" OC AFF UNLESS OTHERWISE NOTED
- NOTE: ALL FACEPLATES SHALL HAVE 6 SPACES FOR TERMINATION MODULES.
- (#) PROVIDE COVERPLATE WITH NUMBER OF PORTS AS SHOWN.

ABBREVIATIONS:

- A AMPERES
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AL ALUMINUM
- ANNUN ANNUNCIATOR
- ARCH ARCHITECT
- ATS AUTOMATIC TRANSFER SWITCH
- AWG AMERICAN WIRE GAUGE
- BFG BELOW FINISHED GRADE
- BLDG BUILDING
- C CONDUIT
- CAT CATALOG
- CAT CATALOG
- CKT CIRCUIT
- CU COPPER
- C/B CIRCUIT BREAKER
- C/T CURRENT TRANSFORMERS
- Δ DELTA
- DWG DRAWING
- FT FEET
- G GROUND
- GEN GENERATOR
- GFI GROUND FAULT INTERRUPT
- IG ISOLATED GROUND
- KVA KILOVOLT - AMPERES
- KW KILOWATTS
- MCB MAIN CIRCUIT BREAKER
- MCC MOTOR CONTROL CENTER
- MCM THOUSAND CIRCULAR MILS
- MISC MISCELLANEOUS
- MLO MAIN LUGS ONLY
- NEC NATIONAL ELECTRICAL CODE
- NC NORMALLY CLOSED
- NL NIGHT LIGHT CIRCUIT
- NO NORMALLY OPEN
- NTS NOT TO SCALE
- NIC NOT IN CONTRACT
- # PHASE
- POS POINT OF SALE
- PVC POLYVINYL CHLORIDE
- P/T POTENTIAL TRANSFORMER
- R RECESSED
- SCR SHORT CIRCUIT RATING
- SURF SURFACE
- TEL TELEPHONE
- UC UNDERGROUND
- UNIV UNIVERSAL
- UNO UNLESS NOTED OTHERWISE
- V VOLTS
- W WATTS
- WP WEATHERPROOF
- WPG WEATHERPROOF WITH GROUND FAULT INTERRUPT
- XFMER TRANSFORMER
- Y WYE

GENERAL NOTES:

- PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM WHETHER INDICATED OR NOT.
- CODES AND STANDARDS: ALL ELECTRICAL WORK SHALL BE IN STRICT COMPLIANCE WITH OSHA REQUIREMENTS, THE 2008 NATIONAL ELECTRICAL CODE, THE FLORIDA ELECTRICAL CODE AND POWER COMPANY REQUIREMENTS AND STANDARDS. ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS, AND SHALL BEAR THE UNDERWRITER'S LABEL FOR ITS INTENDED USE AND PURPOSE.
- CONTRACTOR SHALL THOROUGHLY INVESTIGATE SITE BEFORE BIDDING. NO CHANGES WILL BE ALLOWED IN CONTRACT PRICE FOR WORK REQUIRED TO COMPLY WITH EXISTING CONDITIONS.
- WORKMANSHIP SHALL MEET N.E.C.A. GUIDELINES AND NEC 110.12.
- IF, THROUGH ERRORS OR OMISSIONS, THE INTENT OF THE ARCHITECT OR ENGINEER, WITH REGARD TO ANY DETAIL, IS NOT CLEAR, OR IS CAPABLE OF MORE THAN ONE INTERPRETATION, SUCH MATTERS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER IN WRITING BEFORE THE SUBMISSION OF BIDS, AND THE ARCHITECT OR ENGINEER SHALL MAKE THE NECESSARY CORRECTION OR EXPLANATION IN A WRITTEN FORMAL RESPONSE. OTHERWISE, NO EXTRA CHARGE WILL BE ALLOWED FOR THE WORK OR MATERIAL WHICH THE ARCHITECT OR ENGINEER MAY REQUIRE, PROVIDED THAT IT COMES WITHIN A REASONABLE INTERPRETATION OF THE DRAWINGS, SPECIFICATIONS, AND OVERALL INTENT OF THE CONTRACT DOCUMENTS.
- THE PLANS AND SPECIFICATIONS ARE INTENDED AS A GENERAL DESCRIPTION OF THE WORK TO BE PERFORMED. ALL ITEMS NOT SPECIFICALLY MENTIONED OR SHOWN, BUT NECESSARY FOR THE COMPLETION OF THE INSTALLATION, SHALL BE FURNISHED AND INSTALLED AS PART OF THIS CONTRACT, BY THE SUB-CONTRACTOR. THIS SUB-CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE MECHANICAL, ARCHITECTURAL, PLUMBING, STRUCTURAL, AND ELECTRICAL PLANS PRIOR TO SUBMITTING HIS FINAL BID. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO THE CONTRACTOR'S FAILURE TO FAMILIARIZE HIMSELF WITH THE PLANS AND HAVE ALL ITEMS OF WORK CLEARLY UNDERSTOOD AND ITEMIZED IN HIS BID PROPOSAL.
- WHERE CONDUIT IS REQUIRED BELOW GRADE, IT SHALL BE SCHEDULE 40 PVC, PROVIDE NYLON PULL CORDS IN ALL EMPTY CONDUITS. SIZE CONDUIT PER N.E.C. FOR ENCLOSED WIRING.
- WHERE CONDUIT IS REQUIRED WITHIN THE BUILDING, IT SHALL BE:
 - WHERE EXPOSED TO PHYSICAL DAMAGE, RIGID OR INTERMEDIATE METAL CONDUIT.
 - WHERE CONCEALED IN STRUCTURE OR CONCEALED BY FINISHES, EMT SHALL BE UTILIZED EXCEPT WHERE RIGID NONMETALLIC CONDUIT IS PERMITTED BY LOCAL AUTHORITY.
- FITTING SHALL BE STEEL SET SCREW TYPE AND APPROVED AND U.L. LISTED FOR THE RACEWAY UTILIZED.
- ALL CONDUCTORS SHALL BE COPPER (#12 MIN.), THHN/THWN INSULATION. COMPLY WITH ALL N.E.C. ARTICLES. ALL CONDUCTORS SHALL BE NEW, FREE FROM KINKS AND OTHER DEFECTS AFTER INSTALLATION HAS BEEN MADE.
- PROVIDE ALL SUPPORTS FOR ELECTRICAL MATERIAL AND EQUIPMENT.
- ALL PLATES TO BE 301 STAINLESS STEEL.
- PROVIDE COMMERCIAL GRADE 20 AMP, 2 POLE, 3 WIRE, GROUNDING TYPE DEVICES WITH BACK AND SIDE WIRING CAPABILITY, SUITABLE FOR SPLIT CIRCUIT OPERATION.
- GROUND FAULT INTERRUPTER: PROVIDE "SPECIFICATION GRADE" DUPLEX RECEPTACLES, GROUND FAULT CIRCUIT INTERRUPTERS (GFI), FEED-THRU TYPE, CAPABLE OF PROTECTING CONNECTED DOWNSTREAM RECEPTACLES ON SINGLE CIRCUIT, GROUNDING TYPE UL RATED CLASS A, 20 AMPERES RATING, 120 VOLTS, WITH SOLID STATE GROUND FAULT SENSING AND SIGNALING, 5 MILLIAMPERES GROUND FAULT TRIP LEVEL; AND EQUIP WITH LOCAL TEST/RESET BUTTONS.
- SHALL BE HEAVY DUTY SAFETY SWITCHES WITH 100,000A SHORT CIRCUIT RATING, AND SHALL BE LISTED IN ACCORDANCE WITH U.L. 98. THE COVER SHALL BE INTERLOCKED SO THAT THE DOOR CANNOT BE OPENED WITH THE HANDLE IN THE "ON" POSITION, EXCEPT BY THE INTENTIONAL OPERATION OF A CONCEALED RELEASE (DEFATER) MECHANISM. PROVIDE FUSIBLE SWITCH FOR 4JC UNITS AS PER ULL LISTING AND LOCAL CODE REQUIREMENTS. PROVIDE DUAL ELEMENT, TIME DELAY FUSES IN ALL FUSIBLE SWITCHES.
- A SEPARATE GROUNDING CONDUCTOR, SIZED IN ACCORDANCE WITH N.E.C. ARTICLE 250-122 SHALL BE PROVIDED IN THE CONDUIT WITH THE CIRCUIT CONDUCTORS FOR ALL LIGHTING, POWER AND FEEDER CIRCUITS.
- ALL ELECTRICAL EQUIPMENT ENCLOSURES AND CONDUCTOR ENCLOSURES SHALL BE GROUNDED.
- THE CONTRACTOR SHALL INSTALL HIS WORK TO JOB CONDITIONS AND MAKE SUCH CHANGES AS REQUIRED AND PERMITTED BY THE ARCHITECT, SUCH AS MOVING HIS WORK TO CLEAR BEAMS, JOISTS, AND ADJUSTING OTHER APPARATUS TO AVOID INTERFERENCES WITH WINDOWS AND OPENINGS, OR RAISING OR LOWERING HIS WORK TO PERMIT THE PASSING OF DUCTWORK OR THE WORK OF OTHER TRADES; ALL AS REQUIRED OR AS JOB CONDITIONS DICTATE, WITHOUT ANY ADDITIONAL COSTS TO THE OWNER OR THE CONTRACT PRICE.
- EXAMINE AREAS AND CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED AND PRODUCTS ARE TO BE INSTALLED AND NOTIFY ARCHITECT IN WRITING OF CONDITIONS DETRIMENTAL TO PROPER AND TIMELY COMPLETION OF THE WORK. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN A MANNER ACCEPTABLE TO THE INSTALLER.
- DO NOT ALLOW OR CAUSE ANY OF THE WORK OF THIS DIVISION, OR CAUSE OTHER DIVISIONS OF WORK TO BE COVERED UP, OR ENCLOSED, UNTIL IT HAS BEEN INSPECTED, TESTED AND APPROVED BY THE ARCHITECT AND BY ALL OTHER AUTHORITIES HAVING JURISDICTION.
- ALL SWITCHES, OUTLETS, COVER PLATES, SIGNS, LIGHTING FIXTURES, AND ANY AND ALL OTHER ELECTRICAL EQUIPMENT PROVIDED SHALL BE THOROUGHLY CLEANED OF ALL DIRT, OIL, CONCRETE, ETC. ANY DENTS, SCRATCHES OR OTHER VISIBLE BLEMISHES SHALL BE CORRECTED AND THE APPEARANCE AND CORROSION RESISTANCE OF THE EQUIPMENT MADE "LIKE NEW", TO THE SATISFACTION OF THE ARCHITECT/ENGINEER.
- PERFORM ALL ADJUSTMENTS NECESSARY TO ENSURE PROPER SYSTEM OPERATION IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.
- PROVIDE 120V RECEPTACLE CIRCUIT CONTROLS PER 2017 FBC ENERGY SECTION 405.6.1 & ASHRAE 90.1-2013 8.4.2 IN ALL PRIVATE OFFICES, CONFERENCE ROOMS, PRINTING/COPYING ROOMS, BREAKROOMS, CLASSROOMS, AND INDIVIDUAL WORKSTATIONS. RECEPTACLES DESIGNATED "CR" INDICATES A CONTROLLED RECEPTACLE. THESE RECEPTACLES SHALL BE PERMANENTLY MARKED TO DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES.
- PROVIDE 120V RECEPTACLE CIRCUIT CONTROLS PER 2017 FBC ENERGY SECTION 405.6.1 & ASHRAE 90.1-2013 8.4.2 IN ALL PRIVATE OFFICES, CONFERENCE ROOMS, PRINTING/COPYING ROOMS, BREAKROOMS, CLASSROOMS, AND INDIVIDUAL WORKSTATIONS. RECEPTACLES DESIGNATED "CR" INDICATES A CONTROLLED RECEPTACLE. THESE RECEPTACLES SHALL BE PERMANENTLY MARKED TO DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES.

Applicable Codes and Standards :

- FLORIDA BUILDING CODE, 2017 EDITION
- ADA
- FLORIDA BUILDING CODE, MECHANICAL 2017 EDITION
- FLORIDA BUILDING CODE, PLUMBING 2017 EDITION
- FLORIDA FIRE PREVENTION CODE, 5TH EDITION
- FLORIDA BUILDING CODE, 2017 EDITION CHAPTER 13 - FLORIDA ENERGY EFFICIENCY FOR BUILDING CONSTRUCTION
- NATIONAL FIRE PROTECTION ASSOCIATES (NFPA) STANDARDS
- NFPA 70, 2014 EDITION
- NFPA 72, 2014 EDITION

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	TOTAL	LAMPS	VOLTAGE	MOUNTING	
A	2X2 LED LAY-IN FLAT PANEL FIXTURE, 0-10 V DIMMING	32	32	LED 120/277	RECESSED	FIDELUX # FFP22-32-40K-UNV-D
B	4" LED RECESSED FIXTURE, 0-10 V DIMMING	11	11	LED 120/277	RECESSED	MAXILUME # H-LED2-4-LED2-1496-600L-MD-40K-85-W-WH
C	EXTERIOR LED WALL PACK FIXTURE, INTERNAL PHOTOCELL	30	30	LED 120/277	SURFACE	HUBBELL # SCI-30-4X7-FT-UNV-DB-PCU
XI	EXIT LIGHT, SINGLE FACE, RED LETTERS	-	12	LED 120/277	SURFACE	COMPASS# CER
EM	DUAL HEAD EMERGENCY LIGHT	2.4	2.4	LED 120/277	SURFACE	COMPASS# CUFCO

LIGHTING FIXTURE SCHEDULE NOTES:

- CONTRACTOR SHALL CAREFULLY COORDINATE THE LIGHTING FIXTURE TRIM TYPES WITH THE TYPE OF CEILING WHERE LIGHTING FIXTURES ARE TO BE INSTALLED MODIFY FIXTURE CATALOG NUMBER FROM THAT SHOWN ABOVE TO THAT REQUIRED TO COORDINATE WITH CEILING TYPE/CONSTRUCTION.
- ALL BALLASTED FIXTURES TO HAVE IN-LINE FUSE AND FUSE HOLDER.



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SINGLE POINT OF ENTRY RENOVATION

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Sheet Title :

GENERAL NOTES -
ELECTRICAL

Sheet # :

E-01

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Date : 01/10/2019
S+A Project No : 18031
Owner Project No :
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Checked By : XX
Phase :
100% CONSTRUCTION DOCUMENTS

GENERAL DEMOLITION NOTES:

1. THE CONTRACTOR SHALL VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSAL SO AS TO BECOME FAMILIAR WITH EXISTING WORK. SUBMISSION OF A PROPOSAL WILL BE CONSIDERED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED. IT IS TO BE UNDERSTOOD THAT UNFORESEEN CONDITIONS PROBABLY EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON THE DRAWINGS. COOPERATION WITH OTHER TRADES IN EQUIPMENT ROUTING AS DETERMINED DURING CONSTRUCTION AND AS DIRECTED BY THE ARCHITECT/ENGINEER MAY BE NECESSARY AND IT IS INTENDED THAT SUCH DEVIATIONS SHALL BE CONSIDERED AS PART OF THIS CONTRACT. IT IS ALSO UNDERSTOOD THAT THE PLANS ARE NOT COMPLETELY TO SCALE. THIS CONTRACTOR IS TO FIELD VERIFY DIMENSIONS OF ALL EXISTING CONDITIONS, PRIOR TO BID AND INCLUDE ANY DEVIATIONS IN THE CONTRACT.
2. ALL DEVICES AND EQUIPMENT NOT SHOWN AND IN AREAS OUTSIDE OF REMODELING SHALL REMAIN ACTIVE UNLESS OTHERWISE NOTED. INSTALL AS REQUIRED TO MAINTAIN CONTINUITY TO EXISTING DEVICES AND EQUIPMENT THAT REMAIN.
3. ALL EQUIPMENT AND MATERIAL REMOVED AND NOT REUSED SHALL BE TURNED OVER TO THE OWNER OR AT THE OWNERS REQUEST DISPOSED OF BY THE CONTRACTOR.
4. ALL EXISTING ELECTRICAL EQUIPMENT IS NOT SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO BID, AND INCLUDE IN HIS BID THE REMOVAL OF ALL EQUIPMENT, CONDUIT/WIRING ETC. THAT IS NOT BEING REUSED BACK TO ITS SOURCE.

DEMO KEYNOTES (X):

- 1 REMOVE EXISTING PUSH BUTTON FOR HANDICAP DOOR OPERATOR.
- 2 REMOVE KNOX BOX FROM CANOPY COLUMN AND RELOCATE TO NEW LOCATION.
- 3 REMOVE EXISTING CAMERA FROM CANOPY COLUMN AND RELOCATE TO NEW LOCATION.
- 4 REMOVE EXISTING CARD READER.
- 5 RECEPTACLE TO BE EXTENDED OUT TO NEW WALL SURFACE.

GENERAL LIGHTING NOTES:

1. ALL LIGHT SWITCHES SHALL BE 277V RATED UNLESS OTHERWISE NOTED.
2. COORDINATE EXACT LOCATION OF EACH LIGHT FIXTURE WITH MECHANICAL PIPING, CONDUIT, HVAC GRILLES, ETC. FIELD ADJUST ANY LIGHT TO AVOID CONFLICT.
3. EXIT LIGHTS SHALL BE MOUNTED WITH BOTTOM OF FIXTURE AT 6" ABOVE DOOR HEADER IN ALL AREAS THAT PERMIT THIS PLACEMENT. ALL OTHERS MAY BE CEILING MOUNTED. CONNECT EXIT LIGHTS TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS.
4. MULTIPLE LIGHT SWITCHES, AT THE SAME LOCATION, SHALL BE GANGED TOGETHER UNDER ONE COVER PLATE. DIMMER SWITCHES SHALL BE INSTALLED IMMEDIATELY BELOW SWITCH LOCATIONS.
5. POWER PACK FOR OCCUPANCY SENSORS ARE NOT INDICATED ON PLANS. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER PACKS PER OCCUPANCY SENSOR MANUFACTURER'S RECOMMENDATIONS.
6. EXIT AND EM FIXTURES SHALL BE CONNECTED TO CIRCUITS PRIOR TO SWITCHES.

LIGHTING KEYNOTES (X):

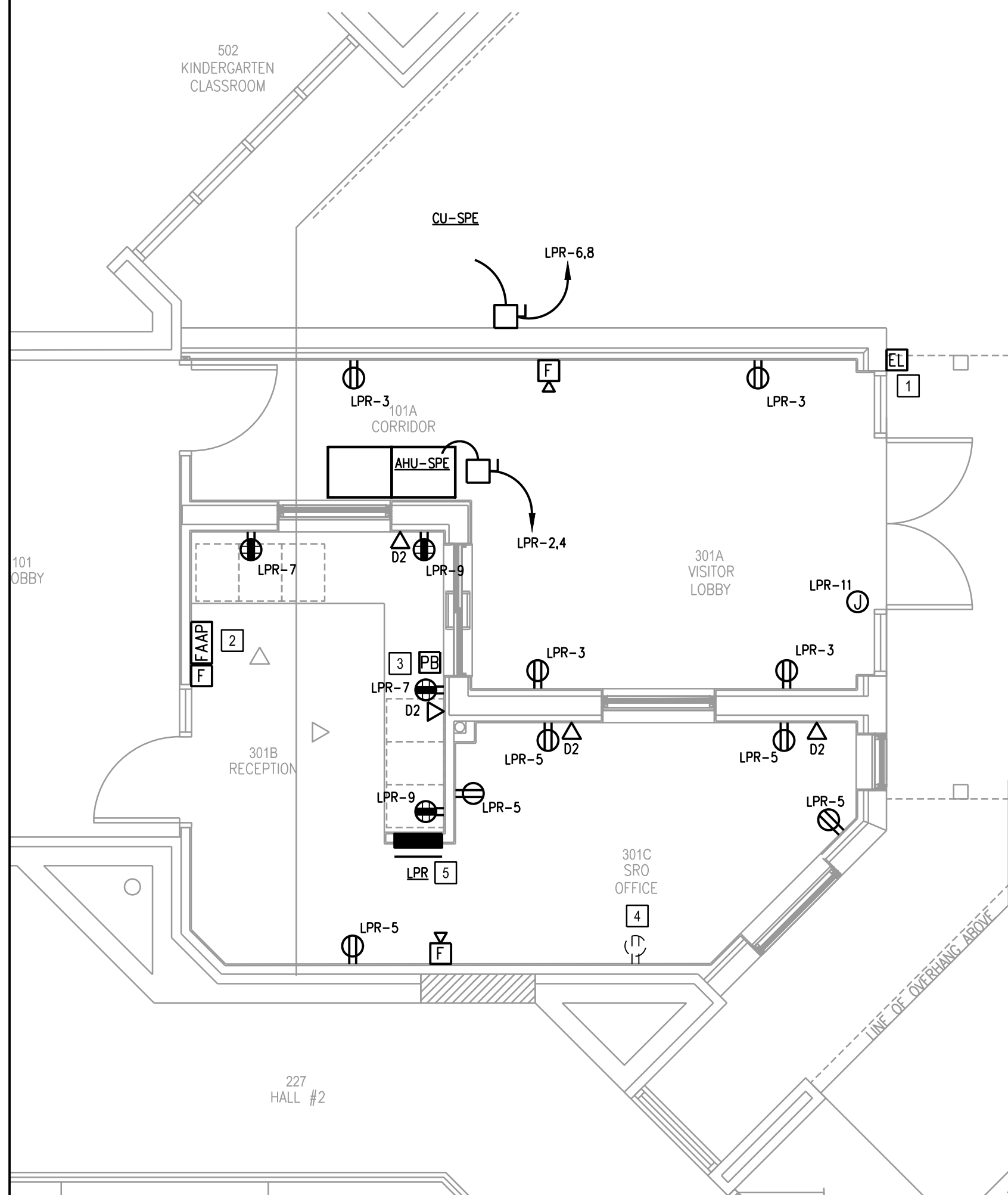
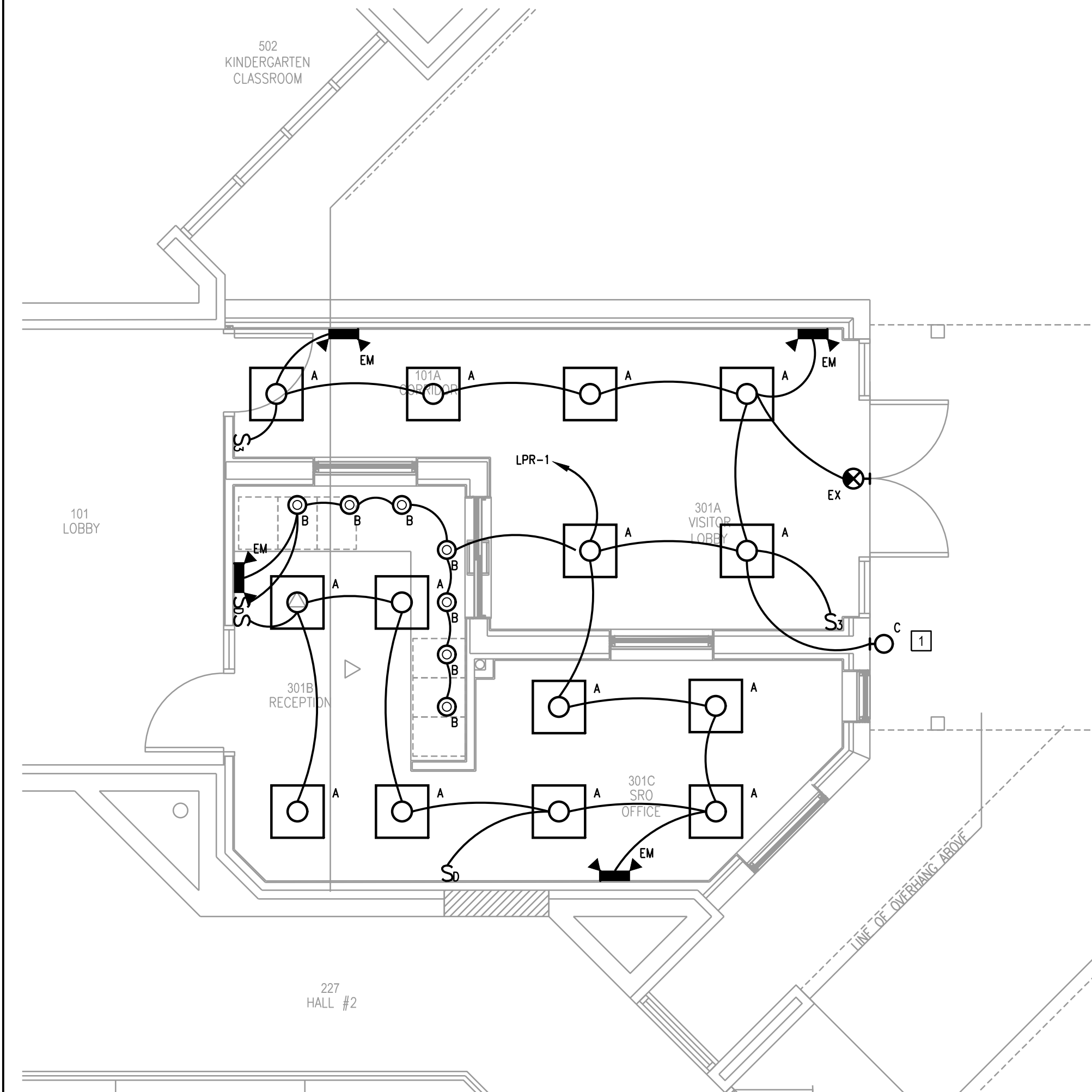
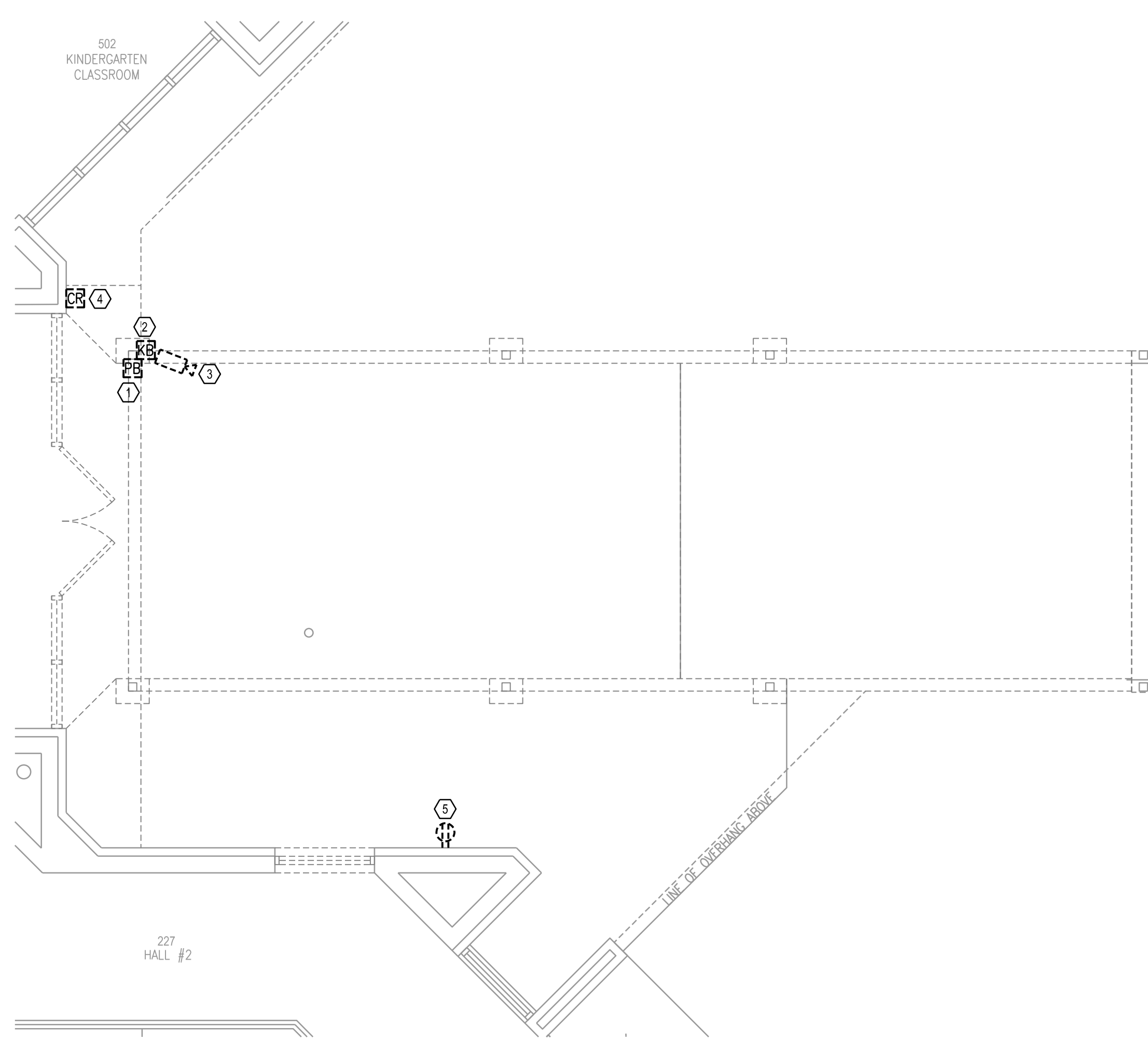
- 1 PROVIDE EXTERIOR FIXTURE ON PHOTOCELL.

GENERAL POWER NOTES:

1. ALL RACEWAYS AND CABLE SHALL BE CONCEALED UNLESS NOTED OR APPROVED IN WRITING BY OWNER AND/OR ENGINEER. ALL CONDUIT ROUTING SHOWN IS DIAGRAMMATICAL AND MAY NOT REPRESENT BEST POSSIBLE ROUTE.
2. DASHED-IN OCCUPANCY SENSORS SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL UTILIZE SAME OCCUPANCY SENSOR SHOWN ON THE LIGHTING PLANS FOR AUTOMATIC RECEPTACLE CONTROL. REFER TO DETAIL 10 ON ELECTRICAL SHEET E5.03 FOR MORE INFORMATION. TYPICAL ALL LOCATIONS THIS SHEET.

POWER KEYNOTES (X):

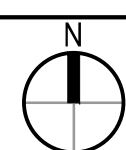
- 1 PROVIDE AIRPHONE HANDS FREE VIDEO INTERCOM. JOS-MD MASTER CONTROL STATION AND JOS-DUF VIDEO DOOR STATION. PROVIDE (1) 2 CONDUCTOR CABLE AS REQUIRED BETWEEN 2 UNITS.
- 2 PROVIDE NEW FIRE ALARM ANNUNCIATOR. CONNECT BACK TO FACP IN ADMIN AREA. EXISTING PANEL IS A SIMPLEX 4100ES. SEE SHEET E.03 FOR LOCATION.
- 3 PROVIDE POWER TO ELECTRIC DOOR LOCK. PUSH BUTTON AT DESK TO OPEN LOCK.
- 4 EXISTING RECEPTACLE TO BE EXTENDED TO NEW WALL SURFACE.
- 5 NEW PANEL LPR FED FROM PANEL PPI. SEE SHEET E.03 FOR FEEDER SIZE AND LOCATION OF PANEL PPI



PARTIAL DEMOLITION FLOOR PLAN - ELECTRICAL

01

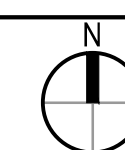
1/4"=1'-0"



PARTIAL NEW FLOOR PLAN - LIGHTING

02

1/4"=1'-0"



PARTIAL NEW FLOOR PLAN - POWER

03

1/4"=1'-0"

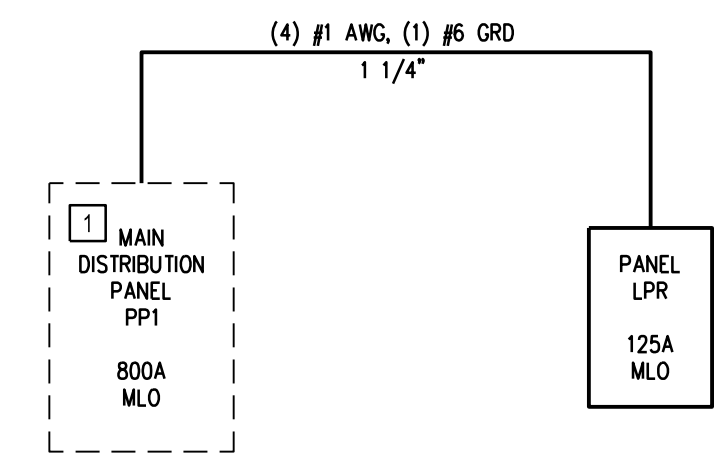


PRINT DATE: 1/9/2019 8:43 AM SAVE DATE: 1/9/2019 8:43 AM FILE LOCATION: J:\B_JOBS\1803 - FELSMEER ES SINGLE PT ENTRY\DWG\1803E-03.DWG

PANEL	LPR	RATING: 125 A SERVICE: 208/120V, 3PH, 4W						TYPE: MLO MOUNTING: SURFACE						AIC: 125K LOCATION: RECEPTION					
		Code	Ckt No.	EQUIPMENT SERVED	KVA	CKT BKR	BRANCH CIRCUIT	Phase	Ckt	EQUIPMENT SERVED	KVA	CKT BKR	BRANCH CIRCUIT	Code	Ckt No.	EQUIPMENT SERVED	KVA	CKT BKR	BRANCH CIRCUIT
L	1	LGHTS - 101.301A,B,C	0.53	1	20	#12 #12 #12	3/4"	A	2	AHU-SPE	1.80	2	#10	H	3	REC - 101A,301A	1.80	2	#10
R	5	REC-301C	0.90	1	20	#12 #12 #12	3/4"	C	6	CU-SPE	1.87	2	#10	H	7	REC-301B	1.87	2	#10
R	9	REC-301B	0.72	1	20	#12 #12 #12	3/4"	A	8				C	11	DOOR POWER	1.14	1	20	#12 #12 #12
E	11	DOOR POWER	1.14	1	20	#12 #12 #12	3/4"	C	12										
	13							A	14										
	15							B	16										
	17							C	18										
	19							A	20										
	21							B	22										
	23							C	24										
	25							A	26										
	27							B	28										
	29							C	30										

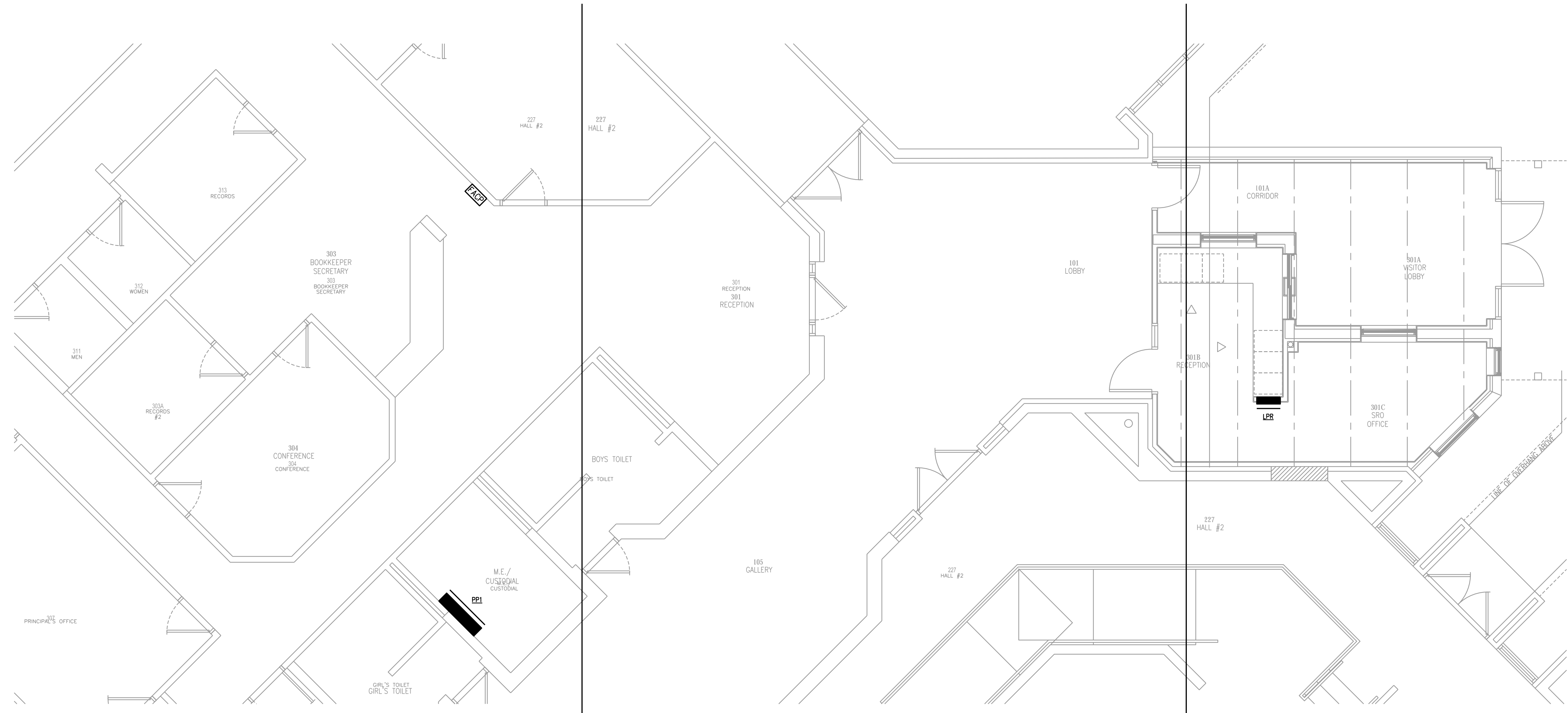
CONNECTED LOAD SUMMARY			
PHASE A:	4.9	KVA	
PHASE B:	3.2	KVA	
PHASE C:	3.9	KVA	
PANEL TOTAL LOAD:	12.1	KVA	

Code	EQUIPMENT SERVED	CONN. LOAD	DF	DESIGN LOAD	REMARKS:
M3/2	Motors	0.00	100%	0.00	- PROVIDE GROUND BUS & NEUTRAL BUS.
	Largest Motor	0.00	125%	0.00	- PROVIDE TYPE WRITTEN DIRECTORY.
L	Lighting	0.53	125%	0.66	
R	Receptacles (1st 10 kVA)	3.06	100%	3.06	
R	Receptacles (Remaining)		50%		
H	Heating	3.60	100%	3.60	
C	Cooling	3.74	100%	3.74	
E	Equipment	1.14	100%	1.14	
A	Appliances	0.00	100%	0.00	
O	Other	0.00	100%	0.00	
	20% Spare	2.21	100%	2.21	
TOTAL KVA				14	
TOTAL AMPS				40	



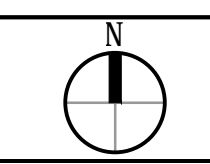
POWER KEYNOTES:
 1 PROVIDE (3) 100 AMP FUSES IN EXISTING 100 IMP FUSE BUCKET. IDENTIFY BUCKET AS PANEL LPR WITH LABEL.

1 ELECTRICAL ONE-LINE
 SCALE: NTS



PARTIAL NEW FLOOR PLAN - POWER

03
 1/4"=1'-0"



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THE SCHOOL DISTRICT OF INDIAN RIVER COUNTY
 OFFICE OF FACILITIES & CONSTRUCTION



SINGLE POINT OF ENTRY RENOVATION

FELLSMERE ELEMENTARY SCHOOL
 50 N CYPRESS ST.
 FELLSMERE, FL 32948

Revisions:

Date: 01/10/2019
S+A Project No: 18031
Owner Project No:
Drawn By: XX
Checked By: XX
Phase:
 100% CONSTRUCTION DOCUMENTS

Sheet Title:

NEW FLOOR PLAN - ELECTRICAL

Sheet #:

E-03