



SAMPSON COUNTY 911 & ES FACILITIES

CLINTON,
NORTH CAROLINA

CONSTRUCTION
DOCUMENTS

ROOF PLAN

DATE 12.04.2020
PROJECT NO 20003

REVISIONS		
NUM.	DATE	DESCRIPTION:
REV1	12/17/20	REVISION 01
REV2	01/09/21	REV2/ADD1

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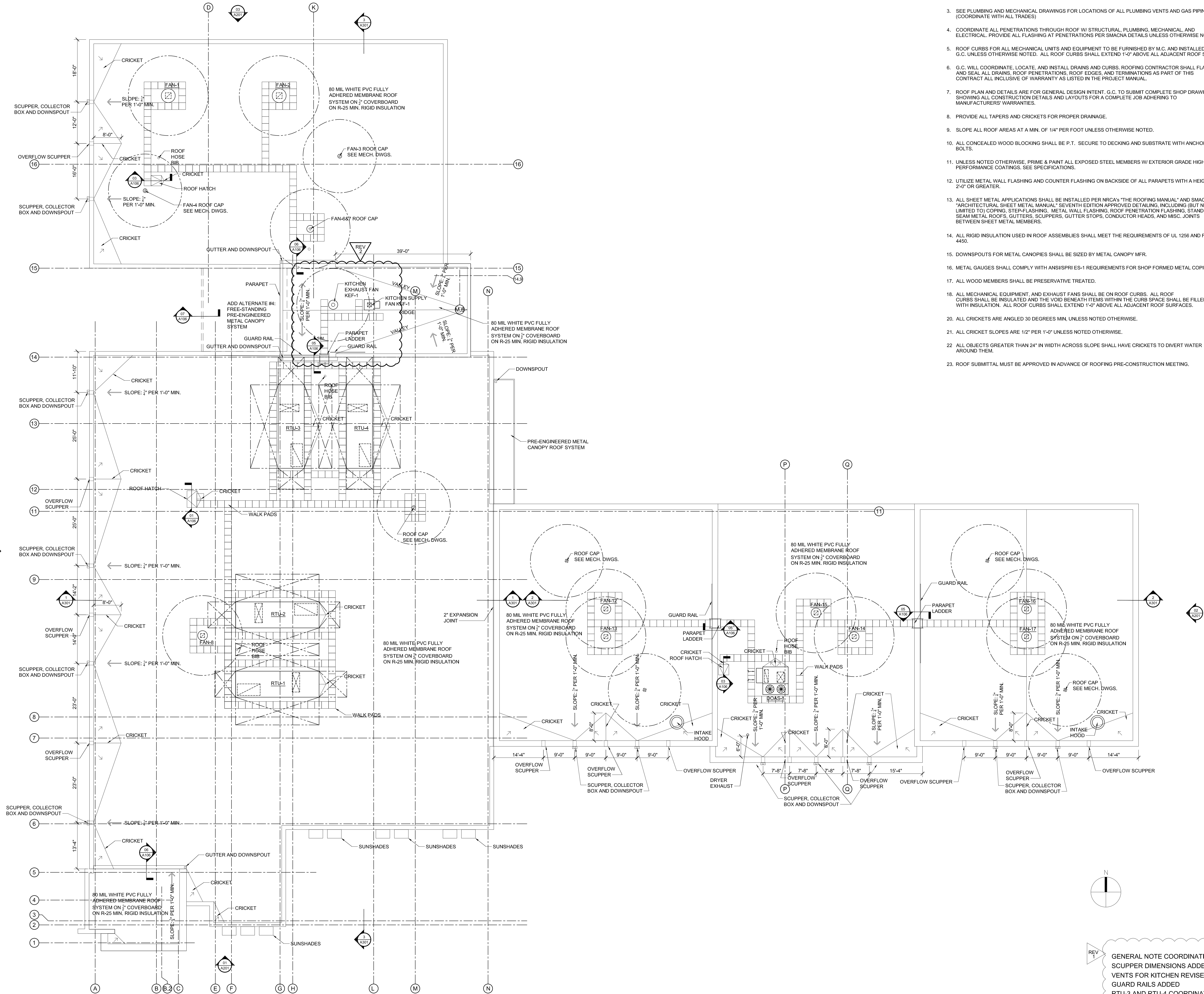
SEAL

SHEET NUMBER

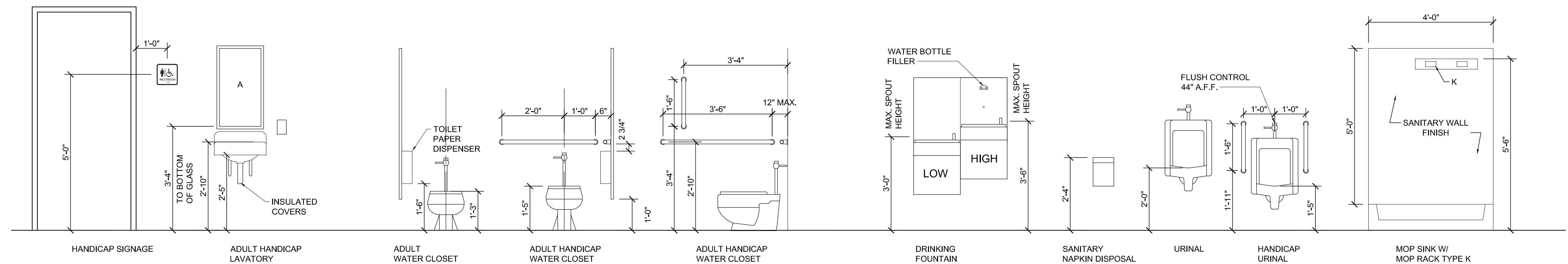
A105

ROOF GENERAL NOTES

- ALL DIMENSIONS TO BE FIELD VERIFIED. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, OBTAIN CLARIFICATION FROM ARCHITECT.
- COORDINATE EXHAUST FAN AND MECHANICAL UNIT LOCATIONS WITH MECHANICAL AND ELECTRICAL CONTRACTORS.
- SEE PLUMBING AND MECHANICAL DRAWINGS FOR LOCATIONS OF ALL PLUMBING VENTS AND GAS PIPING (COORDINATE WITH ALL TRADES)
- COORDINATE ALL PENETRATIONS THROUGH ROOF W/ STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL. PROVIDE ALL FLASHING AT PENETRATIONS PER SMACNA DETAILS UNLESS OTHERWISE NOTED.
- ROOF CURBS FOR ALL MECHANICAL UNITS AND EQUIPMENT TO BE FURNISHED BY M.C. AND INSTALLED AND FLASHED BY G.C. UNLESS OTHERWISE NOTED. ALL ROOF CURBS SHALL EXTEND 1'-0" ABOVE ALL ADJACENT ROOF SURFACES.
- G.C. WILL COORDINATE, LOCATE, AND INSTALL DRAINS AND CURBS. ROOFING CONTRACTOR SHALL FLASH AND SEAL ALL DRAINS, ROOF PENETRATIONS, ROOF EDGES, AND TERMINATIONS AS PART OF THIS CONTRACT ALL INCLUSIVE OF WARRANTY AS LISTED IN THE PROJECT MANUAL.
- ROOF PLAN AND DETAILS ARE FOR GENERAL DESIGN INTENT. G.C. TO SUBMIT COMPLETE SHOP DRAWINGS SHOWING ALL CONSTRUCTION DETAILS AND LAYOUTS FOR A COMPLETE JOB ADHERING TO MANUFACTURERS WARRANTIES.
- PROVIDE ALL TAPERS AND CRICKETS FOR PROPER DRAINAGE.
- SLOPE ALL ROOF AREAS AT A MIN. OF 1/4" PER FOOT UNLESS OTHERWISE NOTED.
- ALL CONCEALED WOOD BLOCKING SHALL BE P.T. SECURE TO DECKING AND SUBSTRATE WITH ANCHOR BOLTS.
- UNLESS NOTED OTHERWISE, PRIME & PAINT ALL EXPOSED STEEL MEMBERS W/ EXTERIOR GRADE HIGH PERFORMANCE COATINGS. SEE SPECIFICATIONS.
- UTILIZE METAL WALL FLASHING AND COUNTER FLASHING ON BACKSIDE OF ALL PARAPETS WITH A HEIGHT OF 2'-0" OR GREATER.
- ALL SHEET METAL APPLICATIONS SHALL BE INSTALLED PER NRCA'S "THE ROOFING MANUAL" AND SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL" SEVENTH EDITION APPROVED DETAILING, INCLUDING (BUT NOT LIMITED TO) COPING, STEP FLASHING, METAL WALL FLASHING, ROOF PENETRATION FLASHING, STANDING SEAM METAL ROOFS, GUTTERS, SCUPPERS, GUTTER STOPS, CONDUCTOR HEADS, AND MISC. JOINTS BETWEEN SHEET METAL MEMBERS.
- ALL RIGID INSULATION USED IN ROOF ASSEMBLIES SHALL MEET THE REQUIREMENTS OF UL 1256 AND FMG 4450.
- DOWNSPOUTS FOR METAL CANOPIES SHALL BE SIZED BY METAL CANOPY MFR.
- METAL GAUGES SHALL COMPLY WITH ANSI/SPRI ES-1 REQUIREMENTS FOR SHOP FORMED METAL COPINGS.
- ALL WOOD MEMBERS SHALL BE PRESERVATIVE TREATED.
- ALL MECHANICAL EQUIPMENT, AND EXHAUST FANS SHALL BE ON ROOF CURBS. ALL ROOF CURBS SHALL BE INSULATED AND THE VOID BENEATH ITEMS WITHIN THE CURB SPACE SHALL BE FILLED WITH INSULATION. ALL ROOF CURBS SHALL EXTEND 1'-0" ABOVE ALL ADJACENT ROOF SURFACES.
- ALL CRICKETS ARE ANGLED 30 DEGREES MIN. UNLESS NOTED OTHERWISE.
- ALL CRICKET SLOPES ARE 1/2" PER 1'-0" UNLESS NOTED OTHERWISE.
- ALL OBJECTS GREATER THAN 24" IN WIDTH ACROSS SLOPE SHALL HAVE CRICKETS TO DIVERT WATER AROUND THEM.
- ROOF SUBMITTAL MUST BE APPROVED IN ADVANCE OF ROOFING PRE-CONSTRUCTION MEETING.



1. PROVIDE CONCEALED BLOCKING FOR ALL WALL MOUNTED ITEMS.
2. APPROVED MANUFACTURERS FOR TOILET ACCESSORIES ARE BRADLEY, AMERICAN STANDARD, COLUMBIA AND AJW WASHROOM ACCESSORIES.
3. THE HEIGHT OF ALL ACCESSIBLE ADULT WATER CLOSET SEATS SHALL BE 17" A.F.F TO THE TOP OF THE TOILET SEAT.
4. THE HEIGHT OF ALL ACCESSIBLE URINALS SHALL BE 17" A.F.F. TO THE RIM.
5. G.C. TO COORDINATE INSTALLATION OF LIGHTS, SINKS, AND MIRRORS.
6. PROVIDE TRANSITION STRIP, BETWEEN FLOOR FINISHES, CENTER UNDER DOORS AT DOOR LOCATIONS. BUILD THICKNESS AS REQUIRED FOR LEVEL TRANSITION BETWEEN MATERIALS. SEE FINISH SCHEDULE.
7. PROVIDE 12" x 48" LOCKER BENCHES
8. PROVIDE 20" x 42" H.C. ACCESSIBLE LOCKER BENCHES



SCALE: NTS

5

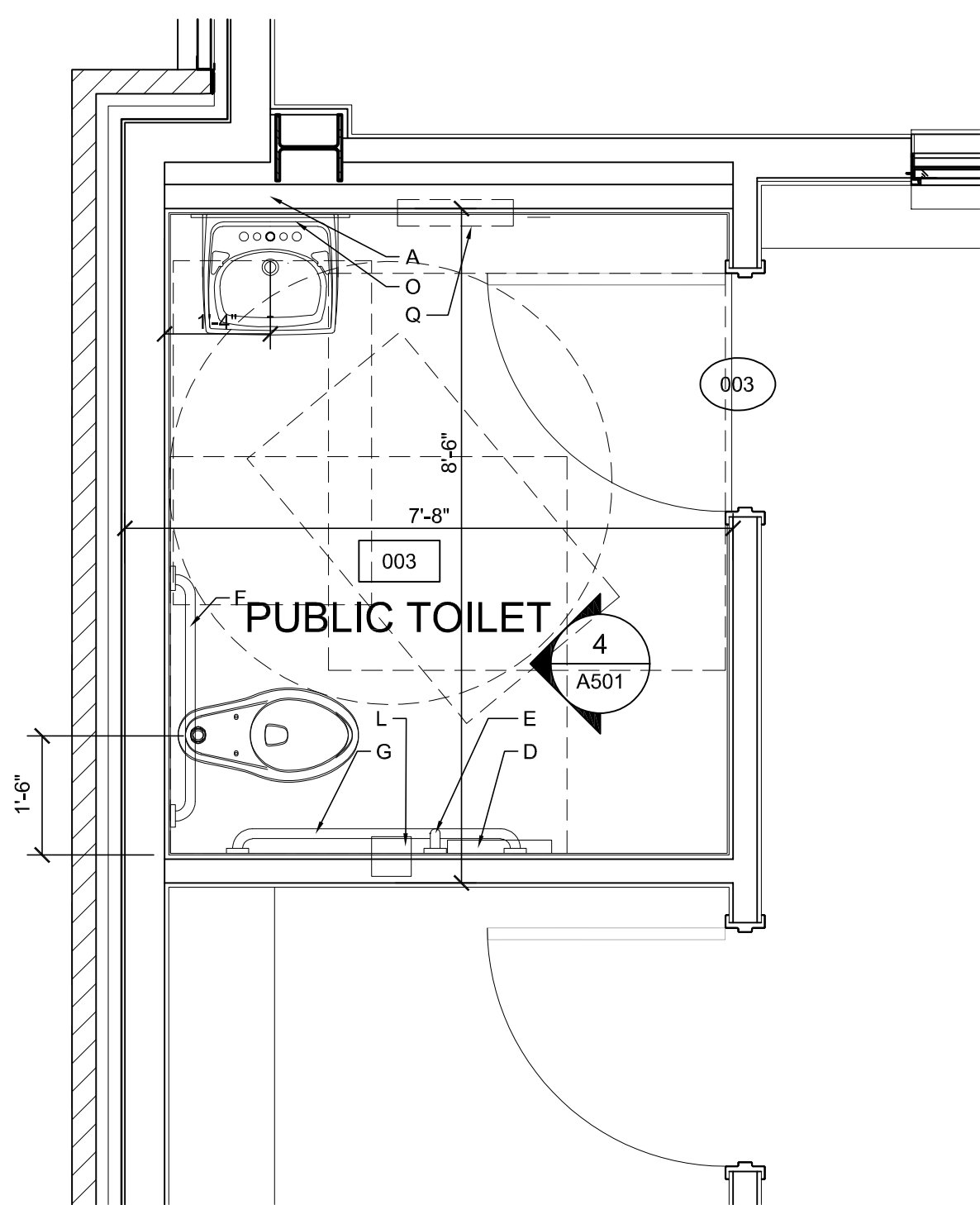
SCALE: 1/2" = 1'-0"

2

NOTE:
Unless otherwise noted, all fixtures model numbers are Bobrick model numbers. This is not intended to preclude the use of another manufacturer.

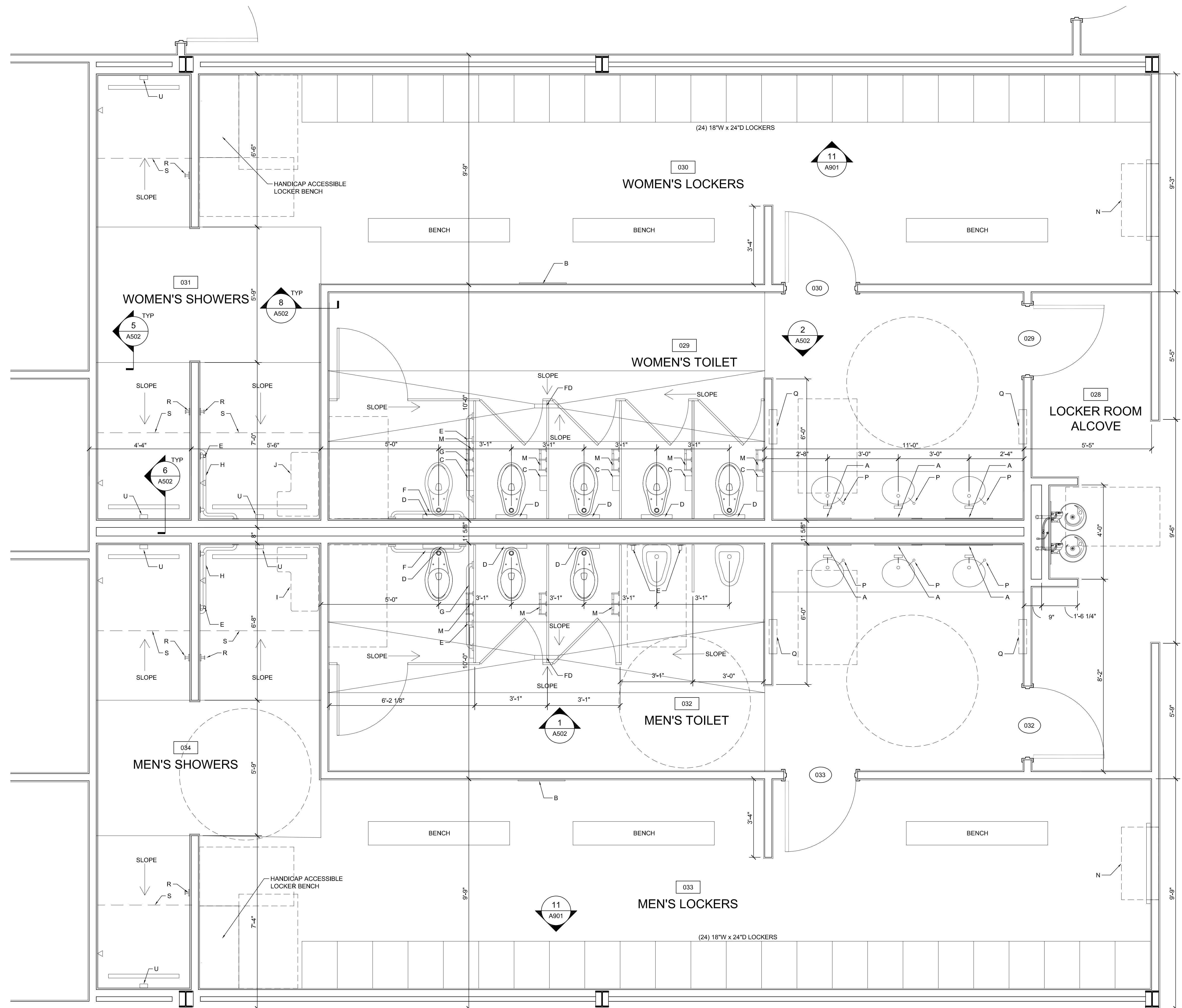
SCALE: NTS

4



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

3



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

1



Professional Engineer Seal for Gilmore Powell, Registered Architect, No. 5454, State of North Carolina, expires 1-9-21.

A500

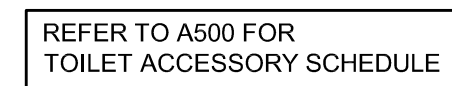
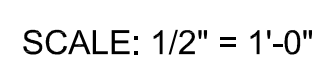
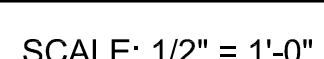
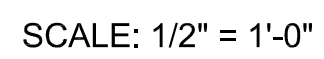
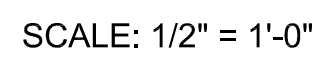


ENLARGED TOILET PLANS AND ELEVATIONS

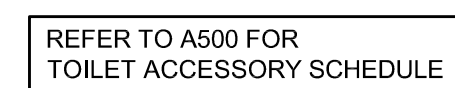
REVISIONS		
NUM.	DATE	DESCRIPTION:
REV1	12/17/20	REVISION 1
REV2	01/09/21	REV2/ADD1

SEAL

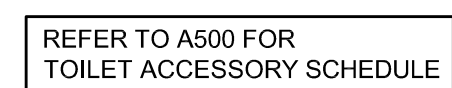
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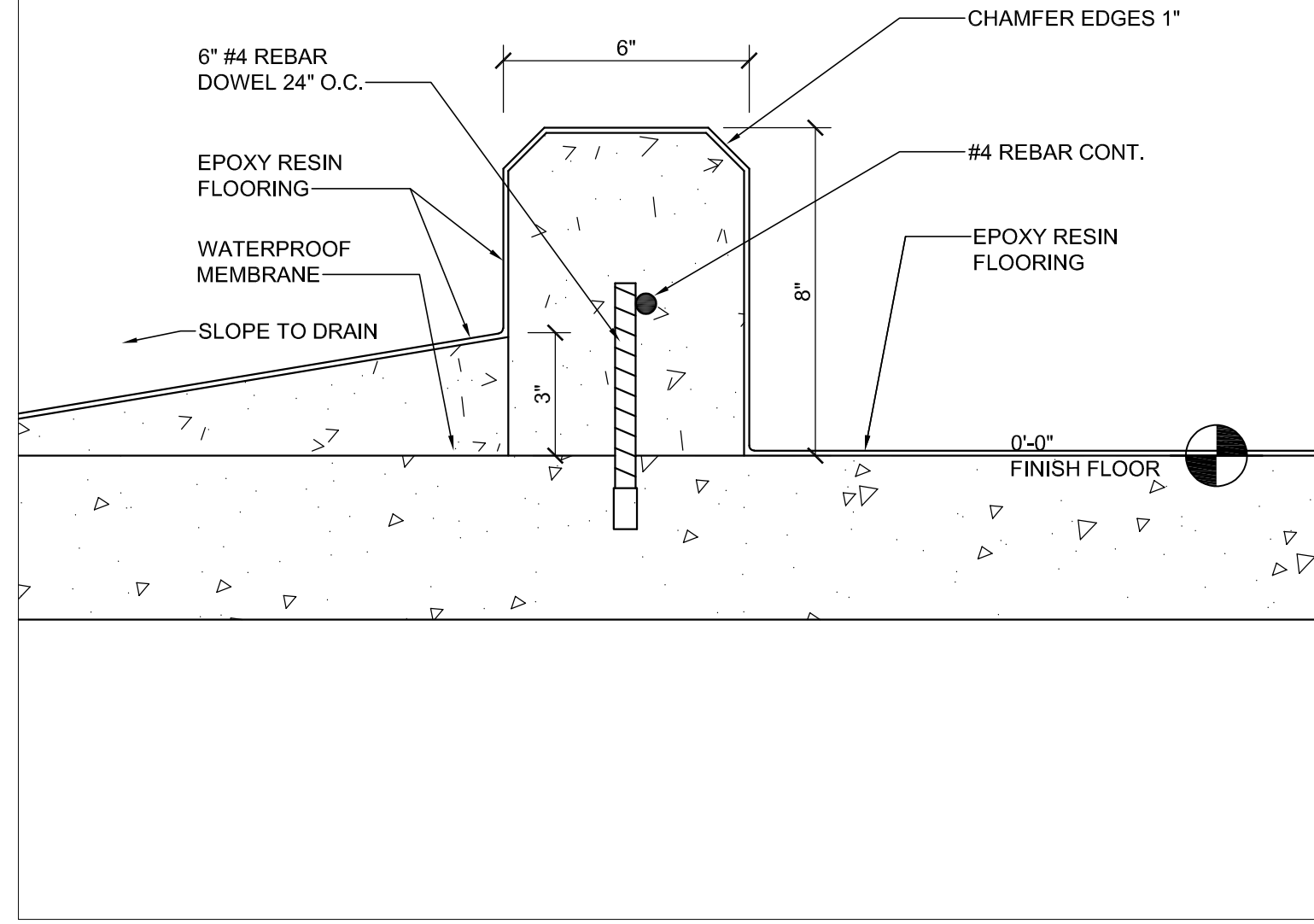
SCALE: 1/2" = 1'-0"



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



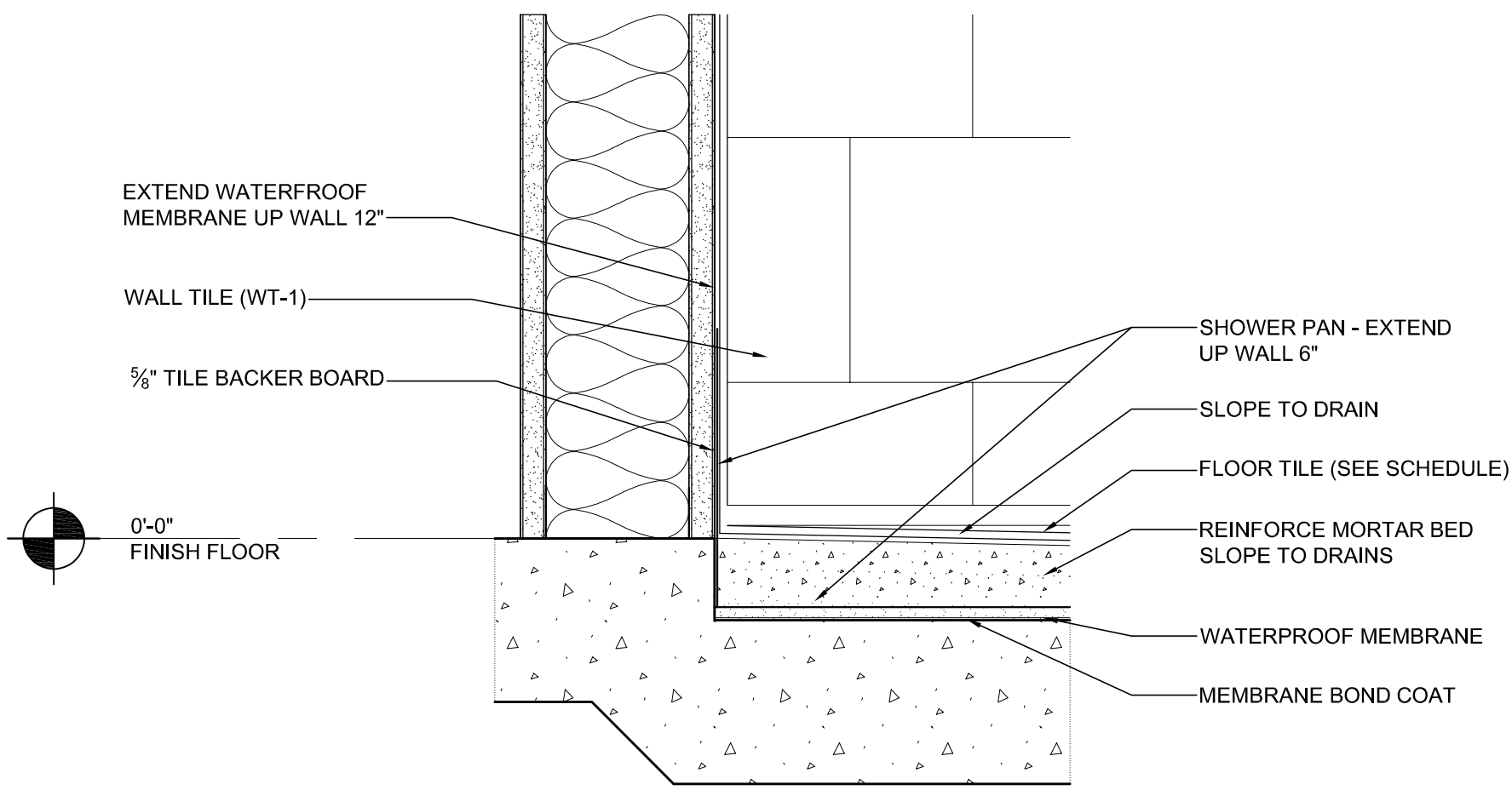
SCALE: 1/2" = 1'-0"



BACKBOARD WASH CURB DETAIL

SCALE: 3" = 1'-0"

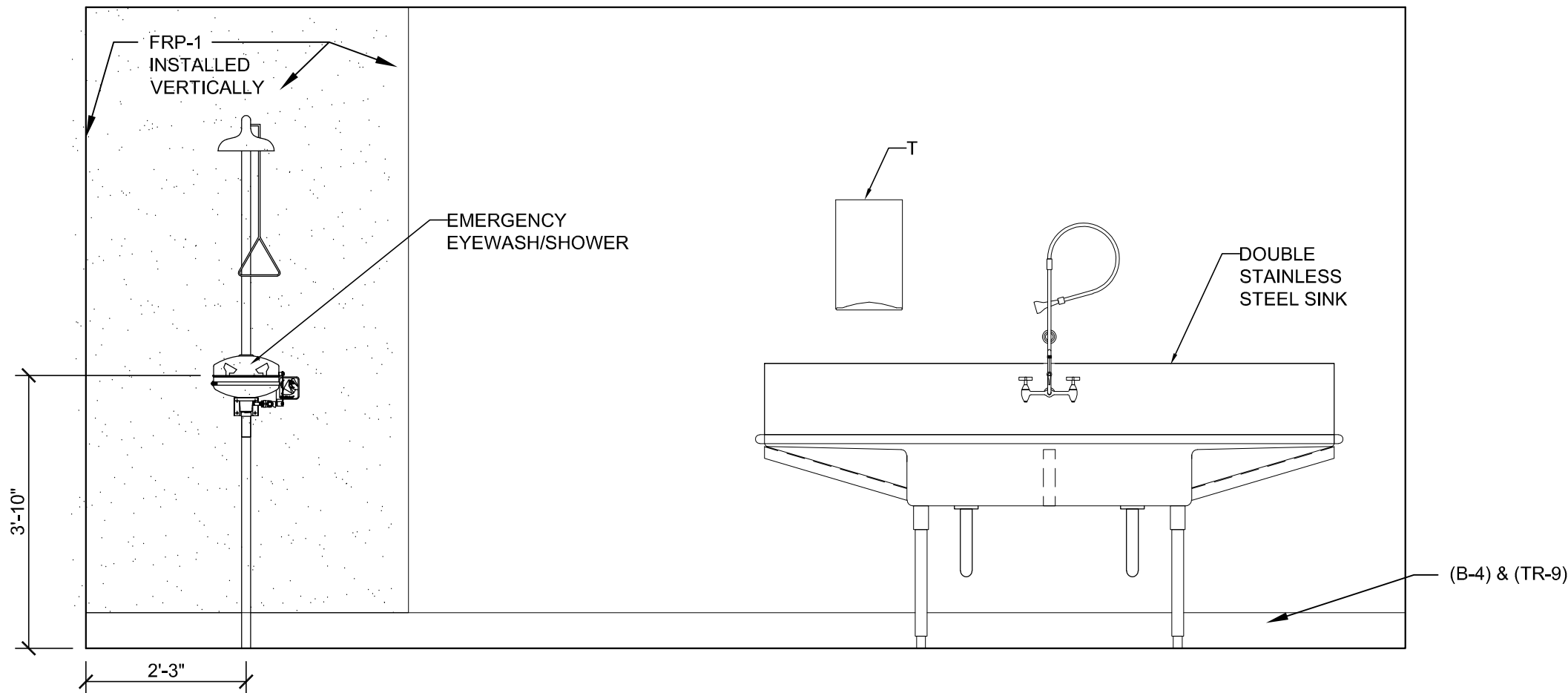
9



SHOWER DETAIL

SCALE: 3" = 1'-0"

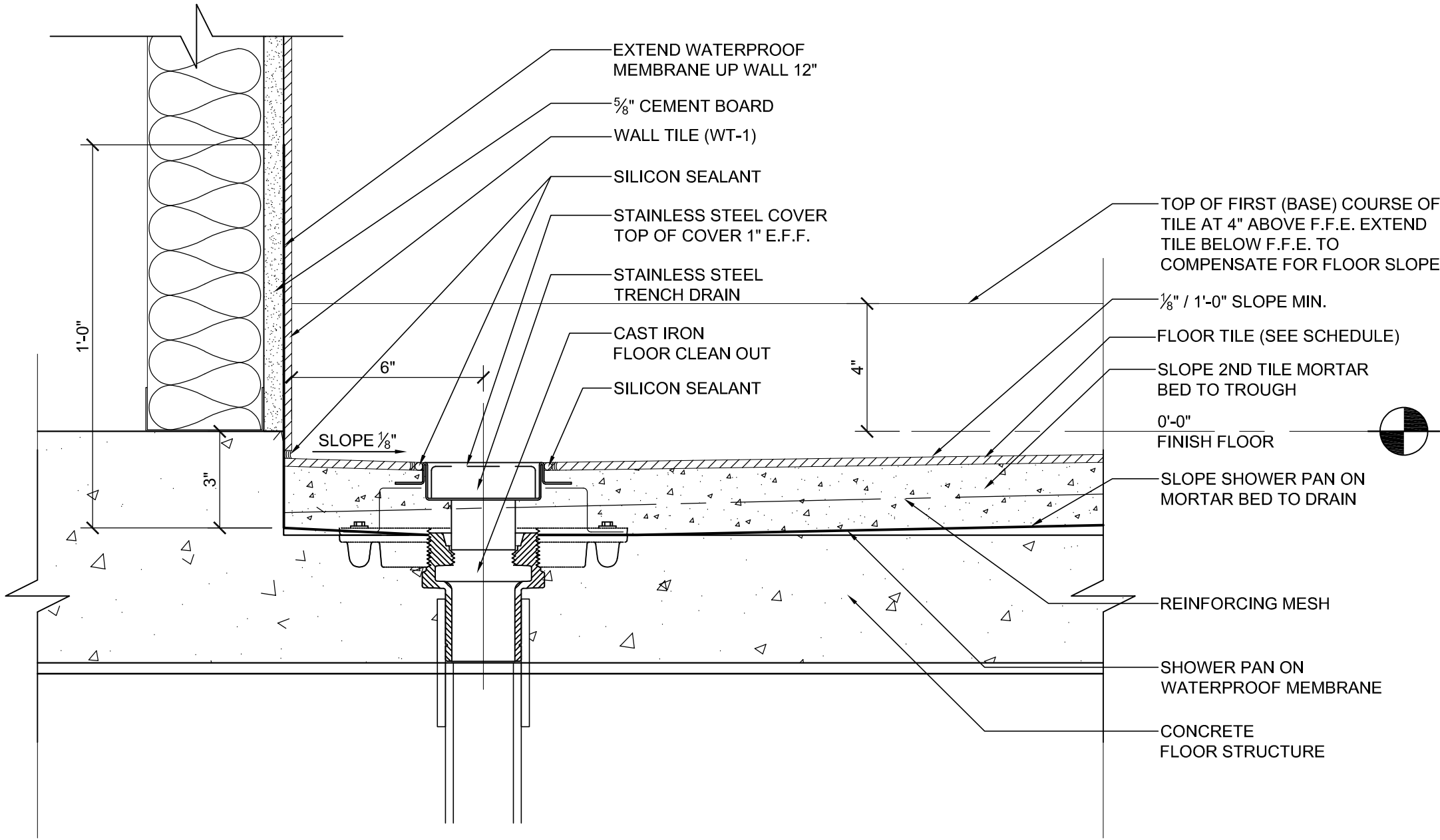
8



DECONTAMINATION ROOM ELEVATION

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

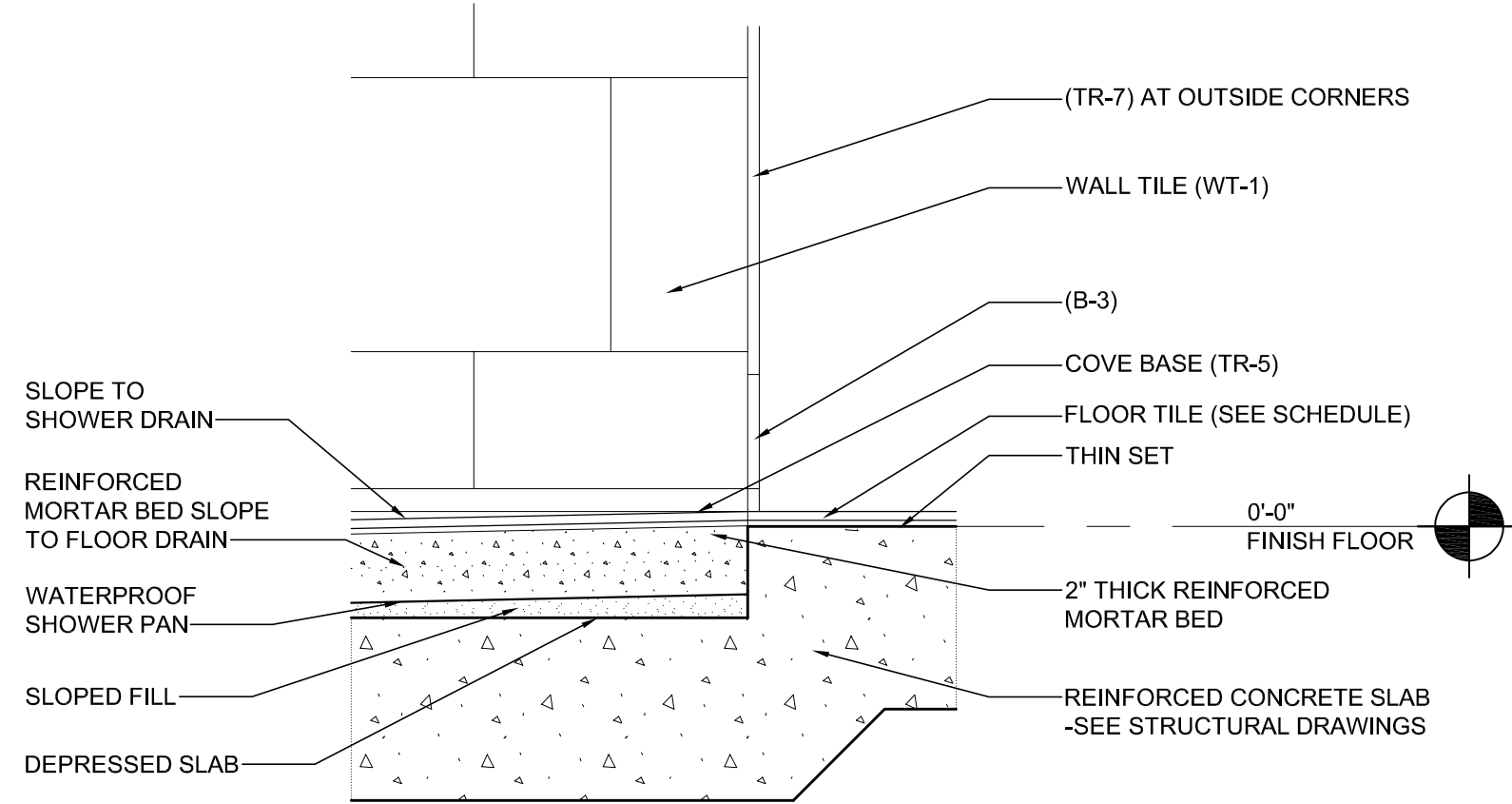
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SHOWER DETAIL

SCALE: 3" = 1'-0"

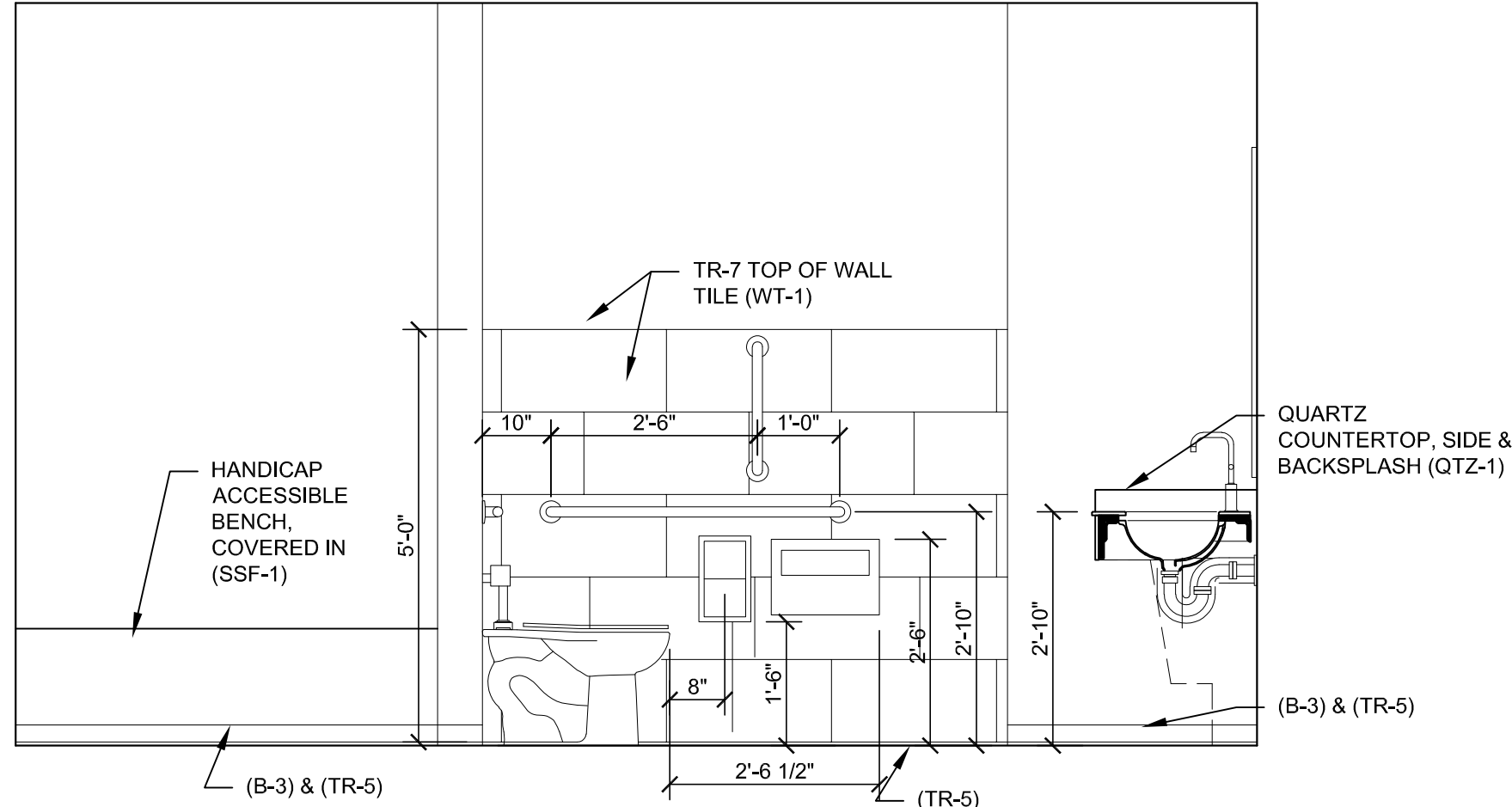
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SHOWER DETAIL

SCALE: 3" = 1'-0"

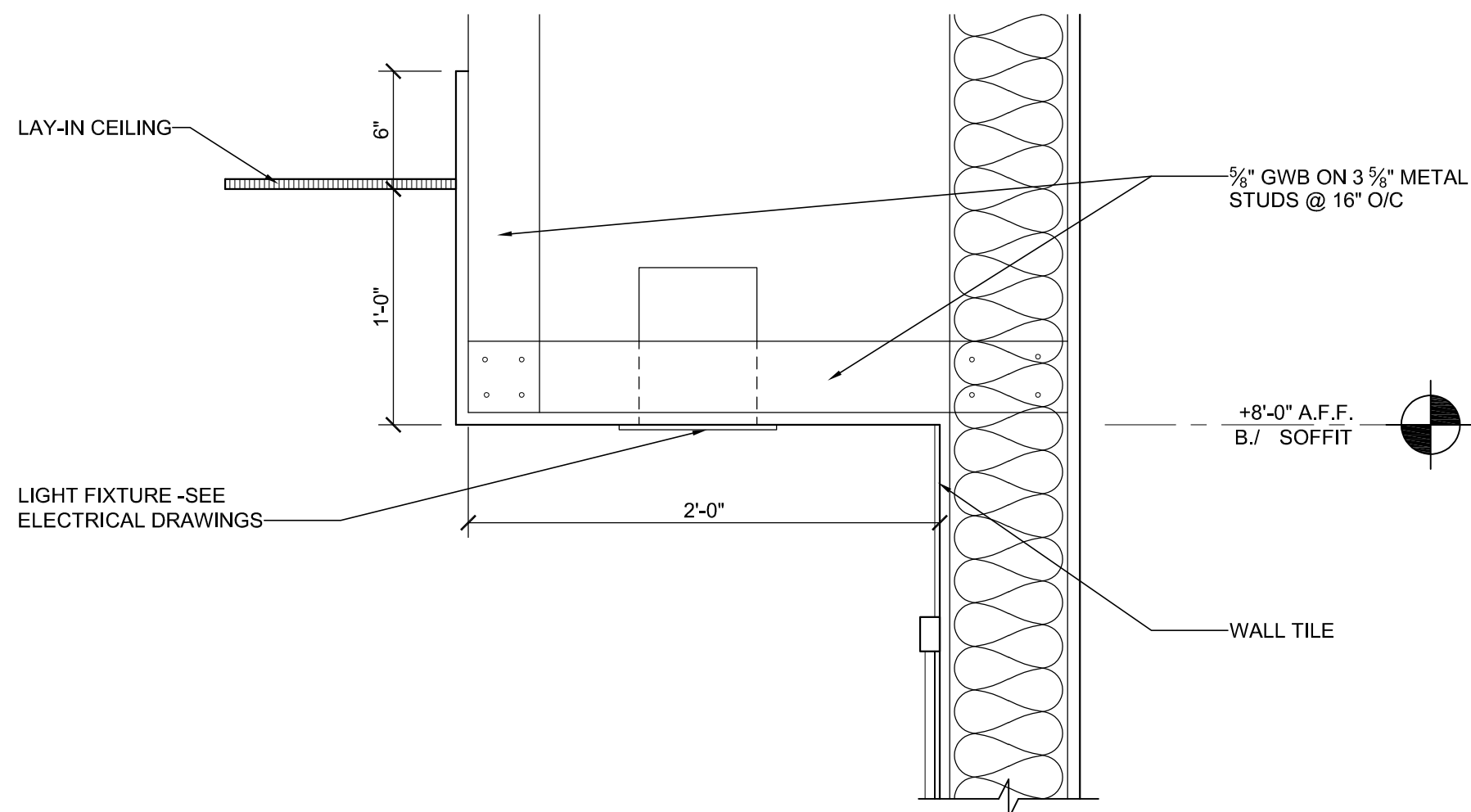
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ENLARGED TOILET ELEVATION

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

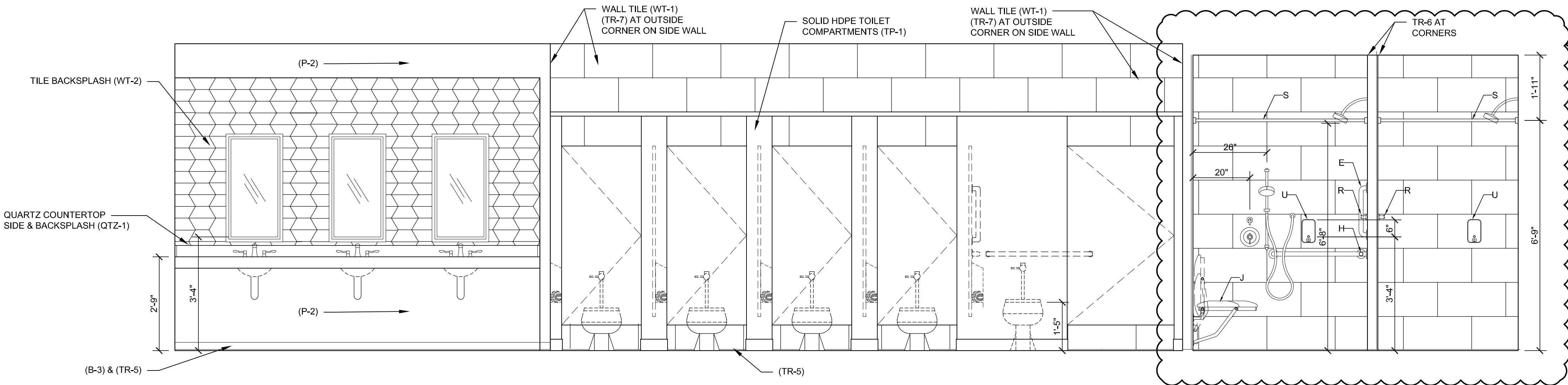
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LAVATORY CASEWORK SECTION

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

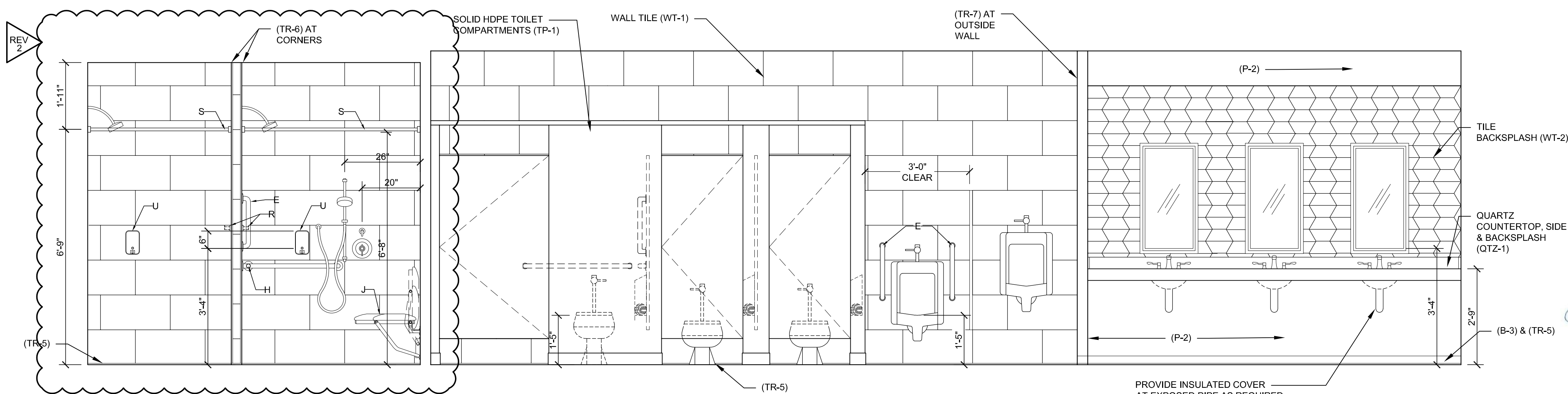
4



ENLARGED TOILET ELEVATION

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

2



ENLARGED TOILET PLAN

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

1

SAMPSON COUNTY 911 & ES FACILITIES

CLINTON,
NORTH CAROLINA

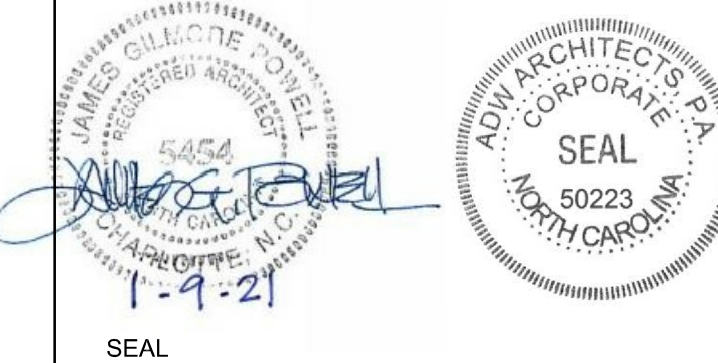
CONSTRUCTION
DOCUMENTS

TOILET ELEVATIONS
AND DETAILS

DATE 12.04.2020
PROJECT NO 20003

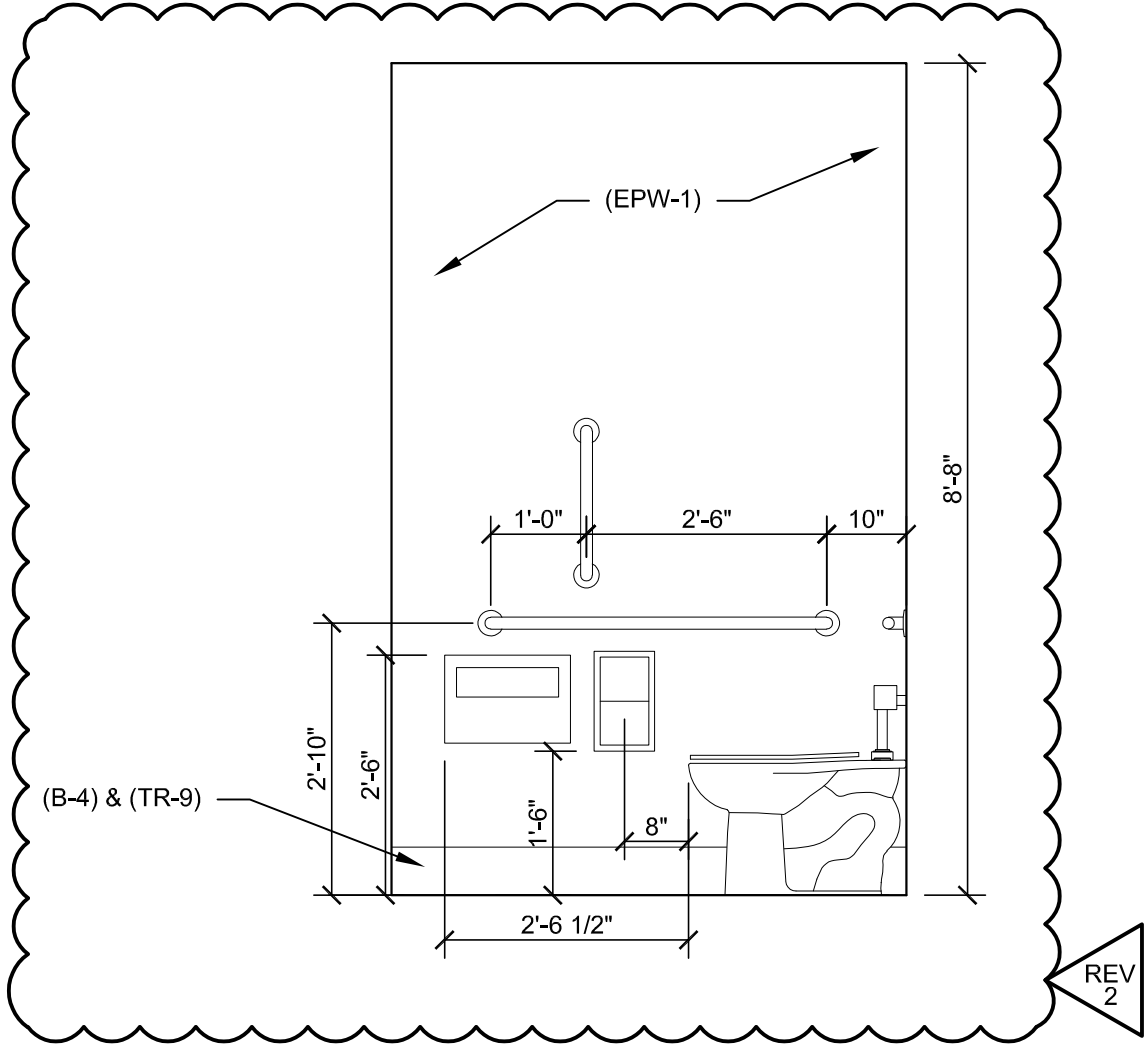
REVISIONS
NUM. DATE DESCRIPTION:
REV2 01/09/21 REV2/ADD1

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SHEET NUMBER

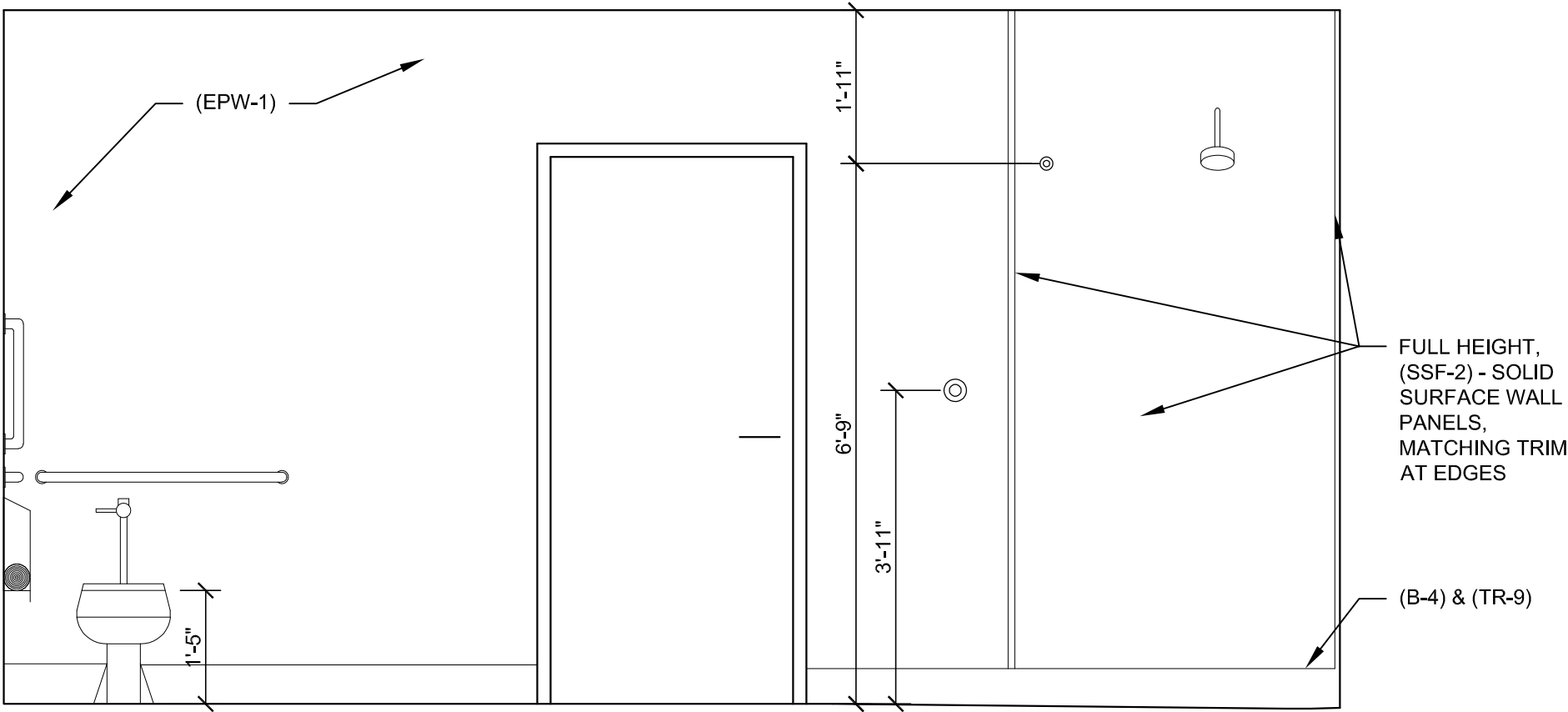
A502



ENLARGED TOILET ELEVATION

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

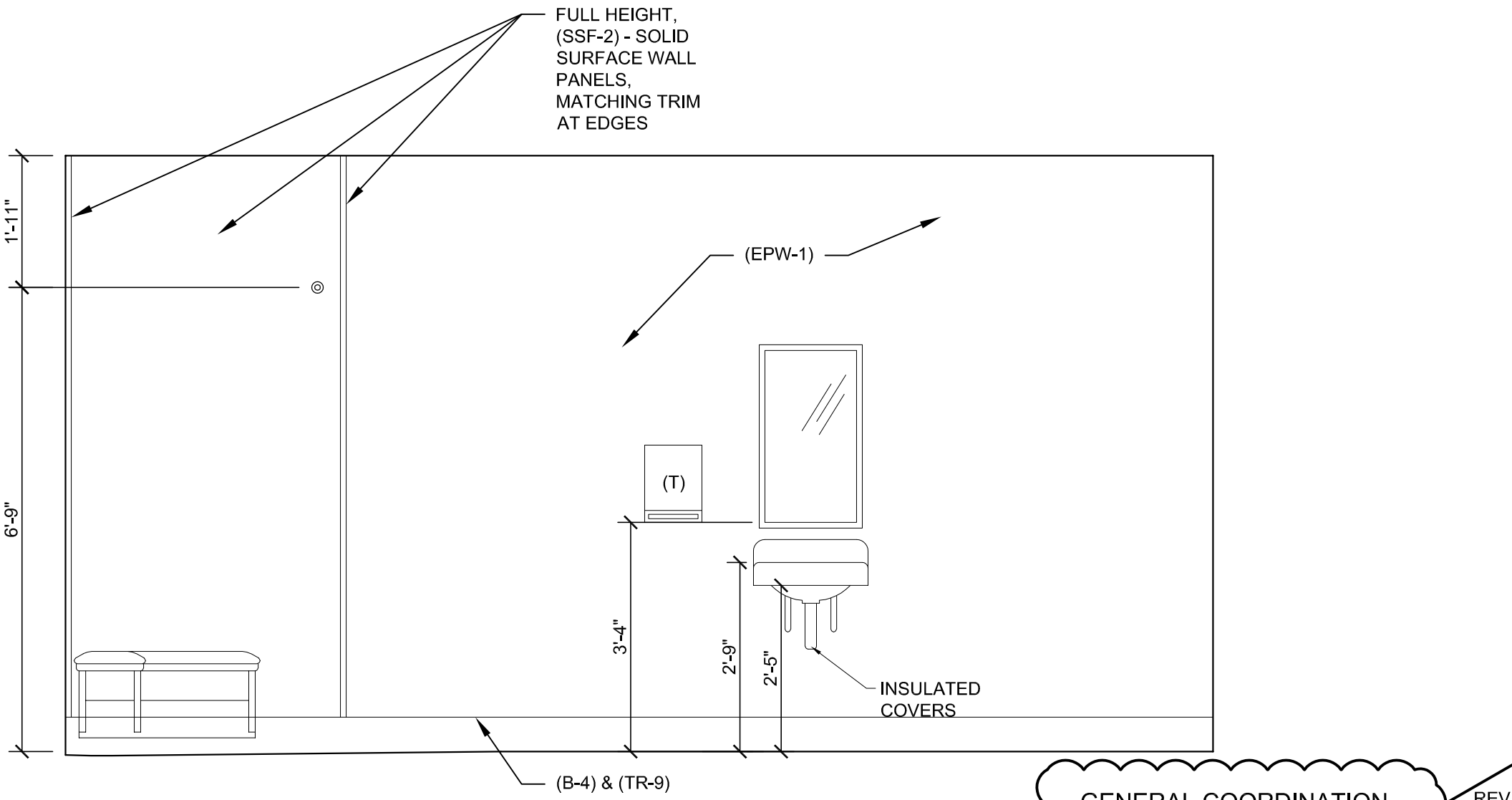
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ENLARGED TOILET ELEVATION

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

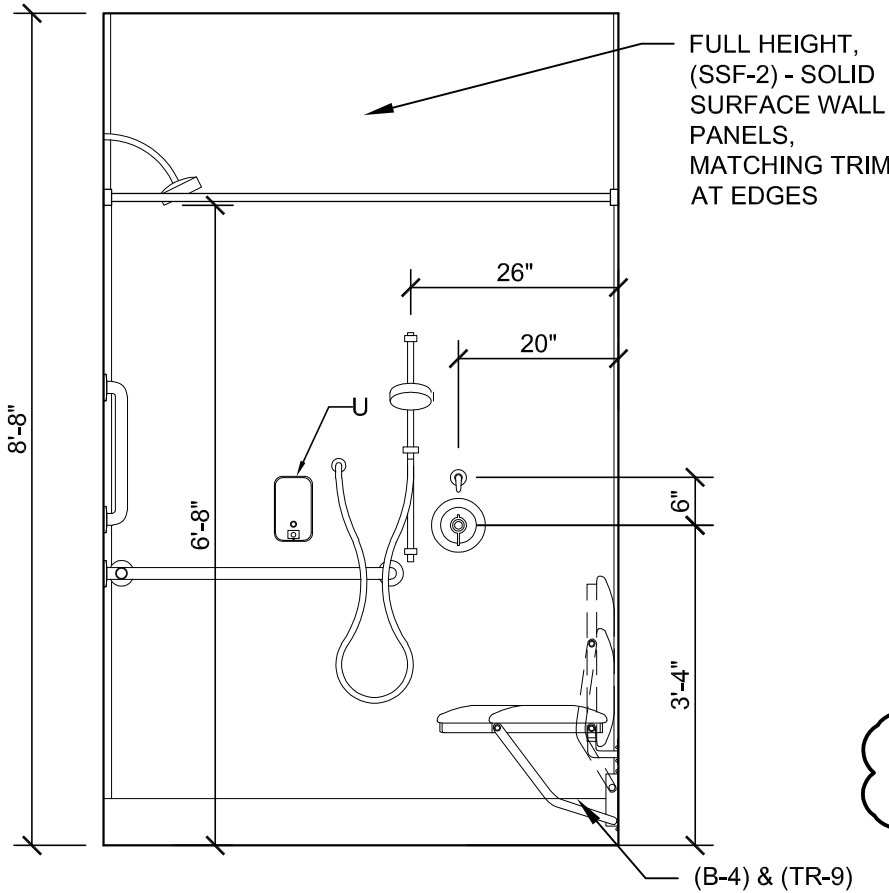
3



ENLARGED TOILET ELEVATION

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

2



ENLARGED TOILET ELEVATION

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

1

SAMPSON COUNTY

911 & ES

FACILITIES

CLINTON,

NORTH CAROLINA

CONSTRUCTION

DOCUMENTS

TOILET ELEVATIONS

AND DETAILS

DATE	12.04.2020	
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SEAL

SHEET NUMBER

A503



SAMPSON COUNTY 911 & ES FACILITIES

CLINTON,
NORTH CAROLINA

CONSTRUCTION
DOCUMENTS

DOOR, FRAME, AND HARDWARE SCHEDULES & DETAILS

DATE 12.04.2020
PROJECT NO 20003
REVISIONS
NUM. DATE DESCRIPTION:
REV2 01/09/21 REV2/ADD1

GENERAL COORDINATION

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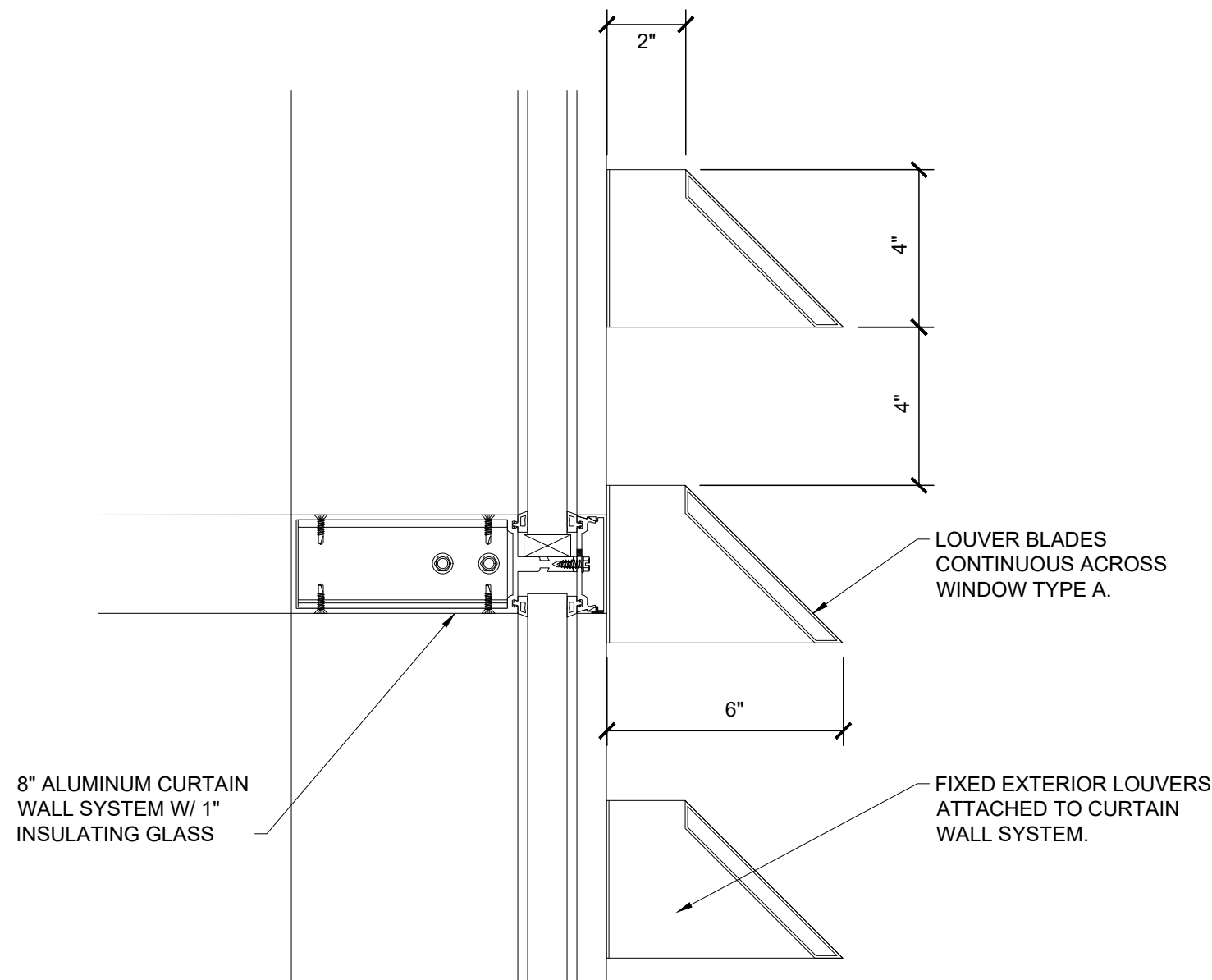


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A600

DOOR, FRAME, AND HARDWARE SCHEDULE

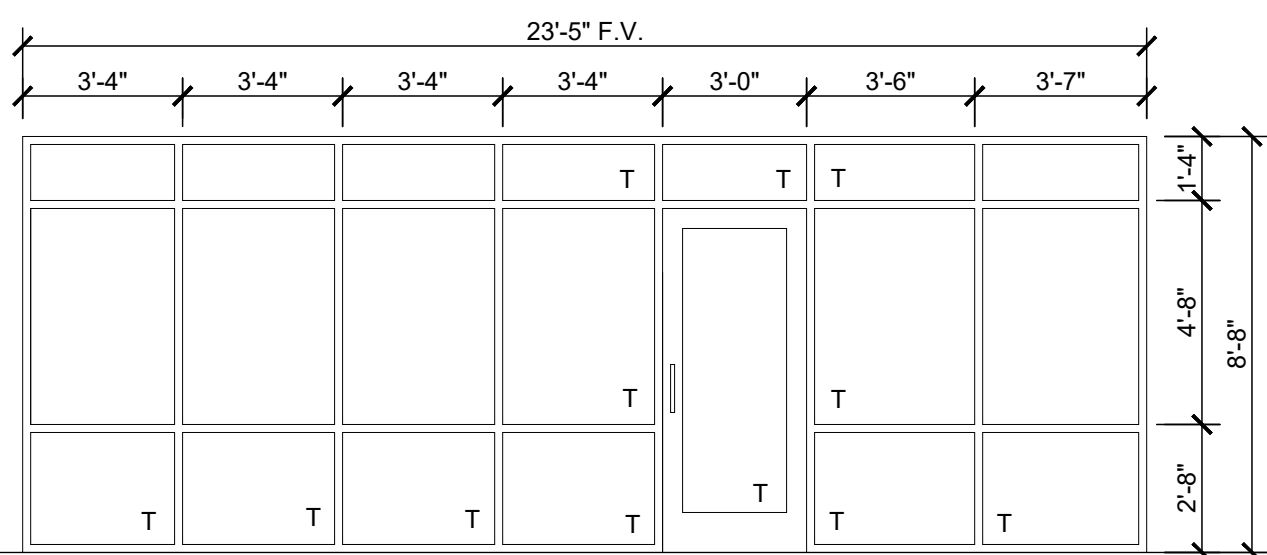
DOOR NUMBER	ROOM NAME	DOOR							FRAME						REMARKS	FIRE LABEL
		SIZE			DOOR											
		WIDTH	HEIGHT	THICK	TYPE	MAT	GLAZ	HDW SET	MAT	TYPE	GLAZ	SILL	JAMB	HEAD		
001	LOBBY	3'-6"	7'-0"	1 3/4"	1	ALUM	G-3	1.0	ALUM	A	G-3		J1	H1	B,A,E	
002	STORAGE	3'-0"	7'-0"	1 3/4"	3	SCW		30.0	HM	A			J2	H2		
003	PUBLIC TOILET	3'-0"	7'-0"	1 3/4"	3	SCW		18.0	HM	A			J2	H2	C	
004	CORRIDOR	3'-0"	7'-0"	1 3/4"	4	SCW	G-1	5.0	HM	A			J2	H2	D	
005	WORK ALCOVE	3'-0"	7'-0"	1 3/4"	4	SCW	G-1	22.0	HM	A			J2	H2		
006	ADMINISTRATIVE ASSISTANT	3'-0"	7'-0"	1 3/4"	3	SCW		20.0	HM	A			J2	H2		
008	E.M. DIRECTOR	3'-0"	7'-0"	1 3/4"	3	SCW		20.0	HM	A			J2	H2		
009	E.M.S. OPERATIONS CHIEF	3'-0"	7'-0"	1 3/4"	3	SCW		20.0	HM	A			J2	H2		
010	STORAGE	3'-0"	7'-0"	1 3/4"	3	SCW		29.0	HM	A			J2	H2		
011A	CONFERENCE	3'-0"	7'-0"	1 3/4"	4	SCW	G-1	23.0	HM	A			J2	H2		
011B	CONFERENCE	3'-0"	7'-0"	1 3/4"	4	SCW	G-1	22.0	HM	A			J2	H2		
012	ADMINISTRATIVE ASSISTANT	3'-0"	7'-0"	1 3/4"	3	SCW		20.0	HM	A			J2	H2		
013	E.M. OPERATIONS	3'-0"	7'-0"	1 3/4"	3	SCW		20.0	HM	A			J2	H2		
014	DEPUTY FIRE MARSHAL	3'-0"	7'-0"	1 3/4"	3	SCW		20.0	HM	A			J2	H2		
015	FIRE MARSHAL PLAN REVIEW	3'-0"	7'-0"	1 3/4"	4	SCW	G-1	22.0	HM	A			J2	H2		
017	MEDICAL DIRECTOR	3'-0"	7'-0"	1 3/4"	3	SCW		20.0	HM	A			J2	H2		
018	CORRIDOR	3'-0"	7'-0"	1 3/4"	4	SCW	G-1	8.0	HM	A			J2	H2	A	
019	TRAINING OFFICER	3'-0"	7'-0"	1 3/4"	3	SCW		20.0	HM	A			J2	H2		
020A	TRAINING	3'-0"	7'-0"	1 3/4"	4	SCW	G-1	10.0	HM	A			J2	H2	A	
020B	TRAINING	3'-0"	7'-0"	1 3/4"	4	SCW	G-1	10.0	HM	A			J2	H2	A	
021	SCENARIO TRAINING	3'-0"	7'-0"	1 3/4"	3	SCW		22.0	HM	A			J2	H2		
022	A.V. CONTROL I.T.	PR 3'-0"	7'-0"	1 3/4"	3	SCW		32.0	HM	D			J2	H2		
023	SCENARIO A.V. CONTROL	3'-0"	7'-0"	1 3/4"	3	SCW		23.0	HM	A			J2	H2		
024A	CORRIDOR	3'-0"	7'-0"	1 3/4"	4	SCW	G-2	9.0	HM	A			J2	H2	A	1/3 HR
024B	CORRIDOR	3'-0"	7'-0"	1 3/4"	4	SCW	G-1	5.0	HM	A			J2	H2	A,D	
025A	SECURE VESTIBULE	3'-0"	7'-0"	1 3/4"	3	SCW		5.0	HM	A			J2	H2	A	
025B	SECURE VESTIBULE	3'-0"	7'-0"	1 3/4"	2	IHM		3.0	HM	B			J4	H4	A,B,D	1 1/2 HR
026	LAUNDRY	3'-0"	7'-0"	1 3/4"	3	SCW		25.0	HM	A			J2	H2		1/3 HR
029	WOMEN'S TOILETS	3'-0"	7'-0"	1 3/4"	3	SCW		15.0	HM	A			J2	H2	C	
030	WOMEN'S LOCKERS	3'-0"	7'-0"	1 3/4"	3	SCW		15.0	HM	A			J2	H2	C	
032	MEN'S TOILETS	3'-0"	7'-0"	1 3/4"	3	SCW		15.0	HM	A			J2	H2	C	
033	MEN'S LOCKERS	3'-0"	7'-0"	1 3/4"	3	SCW		15.0	HM	A			J2	H2	C	
035	FIRE MARSHAL RECORDS STOR.	3'-0"	7'-0"	1 3/4"	3	SCW		31.0	HM	A			J2	H2		
036	DEPUTY FIRE MARSHAL	3'-0"	7'-0"	1 3/4"	3	SCW		20.0	HM	A			J2	H2		
037	FIRE MARSHAL EVIDENCE STOR.	3'-0"	7'-0"	1 3/4"	3	SCW		30.0	HM	A			J2	H2		
038	FIRE MARSHAL/ASST E.M. DIRECTOR	3'-0"	7'-0"	1 3/4"	3	SCW		20.0	HM	A			J2	H2		
039	E.M. PLANNING	3'-0"	7'-0"	1 3/4"	3	SCW		22.0	HM	A			J2	H2		
041	CORRIDOR	3'-0"	7'-0"	1 3/4"	4	SCW	G-1	5.0	HM	A			J2	H2	A,D	
042	INFORMATION TECHNOLOGY	3'-0"	7'-0"	1 3/4"	3	SCW		30.0	HM	A			J2	H2		
043	E.M. SAFETY	3'-0"	7'-0"	1 3/4"	3	SCW		20.0	HM	A			J2	H2		
044	ELECTRICAL	3'-6"	7'-0"	1 3/4"	3	SCW		30.0	HM	A			J2	H2		
045	MECHANICAL	3'-6"	7'-0"	1 3/4"	3	SCW		30.0	HM	A			J2	H2		
046A	CONFERENCE	3'-0"	7'-0"	1 3/4"	4	SCW	G-1	22.0	HM	A			J2	H2		
046B	CONFERENCE	3'-0"	7'-0"	1 3/4"	4	SCW	G-1	12.0	HM	A			J2	H2	D	
047	E.M. FINANCE/LOGISTICS	3'-0"	7'-0"	1 3/4"	3	SCW		20.0	HM	A			J2	H2		
048	E.M. LIASON	3'-0"	7'-0"	1 3/4"	3	SCW		20.0	HM	A			J2	H2		
049	AMATEUR RADIO	3'-0"	7'-0"	1 3/4"	3	SCW		25.0	HM	A			J2	H2		
050	CORRIDOR	3'-0"	7'-0"	1 3/4"	4	SCW	G-1	5.0	HM	A			J2	H2	A,D	
051	GENERAL STORAGE	3'-0"	7'-0"	1 3/4"	3	SCW		30.0	HM	A			J2	H2		
052	DRY GOODS STORAGE	3'-0"	7'-0"	1 3/4"	3	SCW		22.0	HM	A			J2	H2		
053A	KITCHEN/BREAK ROOM	3'-6"	7'-0"	1 3/4"	4	SCW		26.0	HM	A			J2	H2		
053B	KITCHEN/BREAK ROOM	3'-6"	7'-0"	1 3/4"	1	ALUM	G-3	1.0	ALLUM	G	G-3		J1	H1	A,B,D	
055A	STAFF LOBBY	3'-0"	7'-0"	1 3/4"	3	SCW		11.0	HM	A			J3	H3	A,B,D	
055B	STAFF LOBBY	3'-6"	7'-0"	1 3/4"	1	ALUM	G-3	1.0	ALLUM	F	G-3		J1	H1	A,B,D	
057A	E.M. EQUIPMENT STORAGE	3'-6"	7'-0"	1 3/4"	3	SCW		30.0	HM	A			J2	H2		
057B	E.M. EQUIPMENT STORAGE	PR 3'-0"	7'-0"	1 3/4"	2	IHM		33.0	HM	E			J3	H3	B,G	
058A	E.O.C./MULTI-PURPOSE	3'-6"	7'-0"	1 3/4"	4	SCW	G-1	10.0	HM	A			J2	H2	A	
058B	E.O.C./MULTI-PURPOSE	3'-6"	7'-0"	1 3/4"	4	SCW	G-1	10.0	HM	A			J2	H2	A	
059	E.O.C. STORAGE	PR 3'-0"	7'-0"	1 3/4"	3	SCW		32.0	HM	D			J2	H2		
060A	DAYROOM	3'-0"	7'-0"	1 3/4"	4	SCW	G-1	25.0	HM	A			J2	H2		
060B	DAYROOM	3'-0"	7'-0"	1 3/4"	3	SCW		13.0	HM	A			J2	H2	D	1/3 HR
061	JANITOR	3'-0"	7'-0"	1 3/4"	3	SCW		30.0	HM	A			J2	H2		
062A	CORRIDOR	3'-0"	7'-0"	1 3/4"	4	SCW	G-2	9.0	HM	A			J2	H2	A	1/3 HR
062B	CORRIDOR	3'-0"	7'-0"	1 3/4"	4	SCW	G-1	5.0	HM	A			J2	H2	A,D	
063	REPORT WRITING	3'-0"	7'-0"	1 3/4"	3	SCW		21.0	HM	A			J2	H2		1/3 HR
064A	SECURE VESTIBULE	3'-0"	7'-0"	1 3/4"	4	SCW	G-1	5.0	HM	A			J2	H2	A,D	
064B	SECURE VESTIBULE	3'-0"	7'-0"	1 3/4"	2	IHM		3.0	HM	B			J4	H4	A,B,D	1 1/2 HR
065	BEDROOM	3'-0"	7'-0"	1 3/4"	3	SCW		17.0	HM	A			J2	H2		
067	BEDROOM	3'-0"	7'-0"	1 3/4"	3	SCW		17.0	HM	A			J2	H2		
068	BEDROOM	3'-0"	7'-0"	1 3/4"	3	SCW		17.0	HM	A			J2	H2		
069	BEDROOM	3'-0"	7'-0"	1 3/4"	3	SCW		17.0	HM	A			J2	H2		
070	BEDROOM	3'-0"	7'-0"	1 3/4"	3	SCW		17.0	HM	A			J2	H2		
071	BEDROOM	3'-0"	7'-0"	1 3/4"	3	SCW		17.0	HM	A			J2	H2		
072	SHIFT SUPERVISOR'S BEDROOM	3'-0"	7'-0"	1 3/4"	3	SCW		17.0	HM	A			J2	H2		
073	BEDROOM	3'-0"	7'-0"	1 3/4"	3	SCW		17.0	HM	A			J2	H2		
074A	SHIFT SUPERVISOR	3'-0"	7'-0"	1 3/4"	3	SCW		21.0	HM	A			J2	H2		1/3 HR
074B	SHIFT SUPERVISOR	3'-0"	7'-0"	1 3/4"	3	SCW		21.0	HM	A			J2	H2		
075	BEDROOM	3'-0"	7'-0"	1 3/4"	3	SCW		17.0	HM	A			J2	H2		
101	SECURE VESTIBULE	3'-0"	7'-0"	1 3/4"	2	HM		11.0	HM	B			J5	H5	A,D	1 HR
102	CORRIDOR	3'-0"	7'-0"	1 3/4"	4	SCW	G-1	5.0	HM	A			J2	H2	A,D	
104	DEPUTY 911 DIRECTOR	3'-0"	7'-0"	1 3/4"	3	SCW		20.0	HM	A			J2	H2		
105	911 DIRECTOR	3'-0"	7'-0"	1 3/4"	3	SCW		20.0	HM	A			J2	H2		
106	CORRIDOR	3'-0"	7'-0"	1 3/4"	1	ALUM	G-1	12.0	ALUM	J	G-1		J1	H1	D	
107A	CONFERENCE/SHIFT BRIEFING RM.	3'-0"	7'-0"	1 3/4"	4	SCW	G-1	12.0	HM	A			J2	H2	D	
107B	CONFERENCE/SHIFT BRIEFING RM.	6'-0"	7'-0"	1 1/4"	8	ALUM	G-4		ALUM	K	G-4				H	
108	ADDRESSING/ Q.A. ASSISTANT	3'-0"	7'-0"	1 3/4"	3	SCW		20.0	HM	A			J2	H2		
110	ACCESSIBLE UNISEX SHOWER/TLT	3'-0"	7'-0"	1 3/4"	3	SCW		19.0	HM	A			J2	H2	C	
111	UNISEX SHOWER/TOILET	3'-0"	7'-0"	1 3/4"	3	SCW		18.0	HM	A			J2	H2	C	
112	CORRIDOR	3'-0"	7'-0"	1 3/4"	1	ALUM	G-1	14.0	ALUM	L	G-1		J1	H1	D	
115	SHIFT SUPERVISORS' OFFICE	3'-0"	7'-0"	1 3/4"	1	ALUM	G-1	20.0	ALUM							



FIXED EXTERIOR LOUVER DETAIL

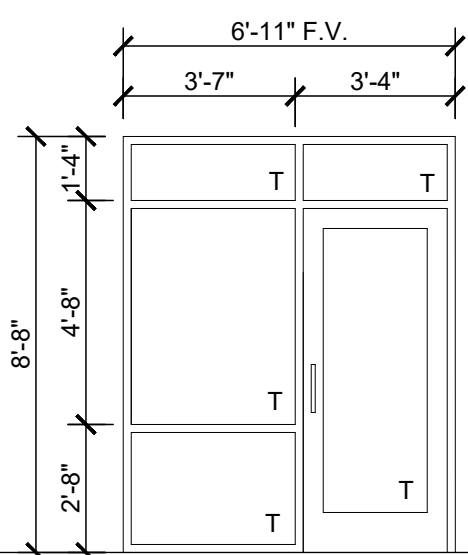
SCALE: 3" = 1'-0"

2



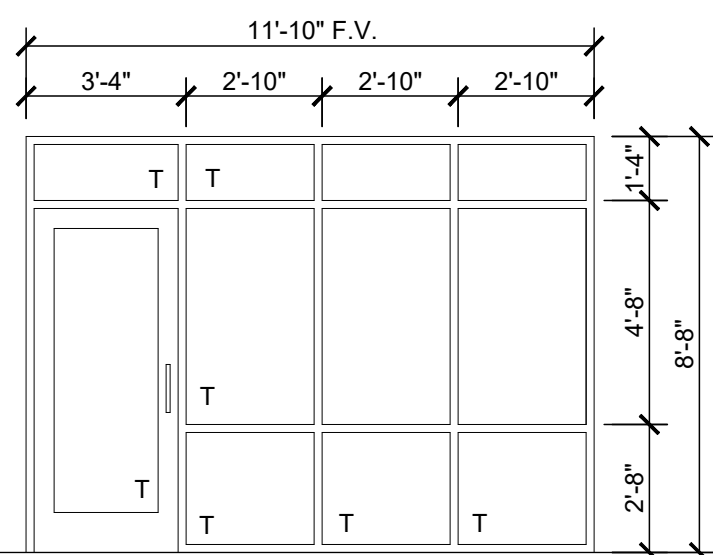
O

ALUMINUM STOREFRONT
SYSTEM W/ 1/2" TEMPERED
GLASS
T = TEMPERED GLASS



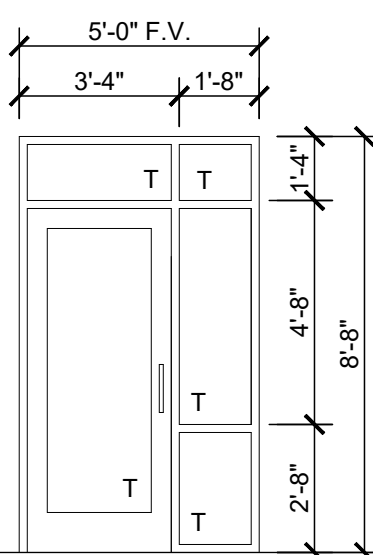
N

ALUMINUM STOREFRONT
SYSTEM W/ 1/2" TEMPERED
GLASS
T = TEMPERED GLASS



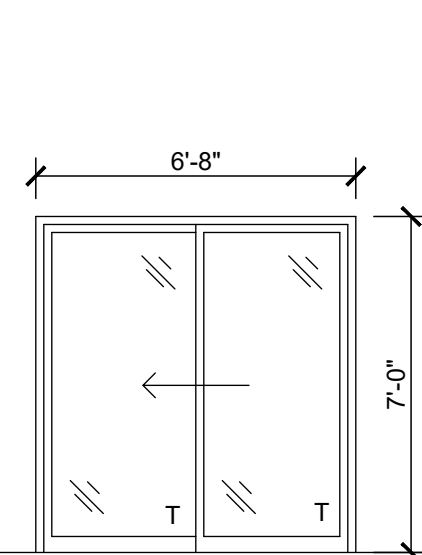
M

ALUMINUM STOREFRONT
SYSTEM W/ 1/2" TEMPERED
GLASS
T = TEMPERED GLASS



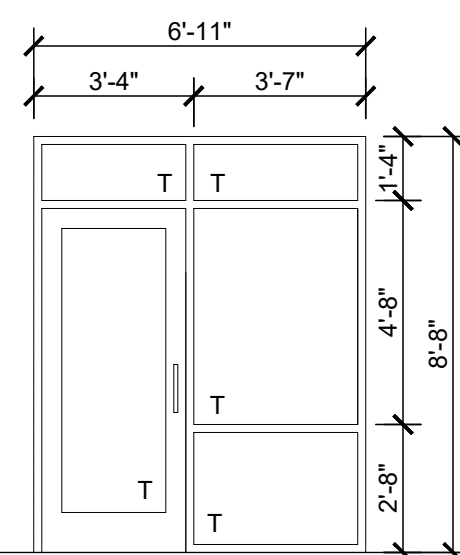
L

ALUMINUM STOREFRONT
SYSTEM W/ 1/2" TEMPERED
GLASS
T = TEMPERED GLASS



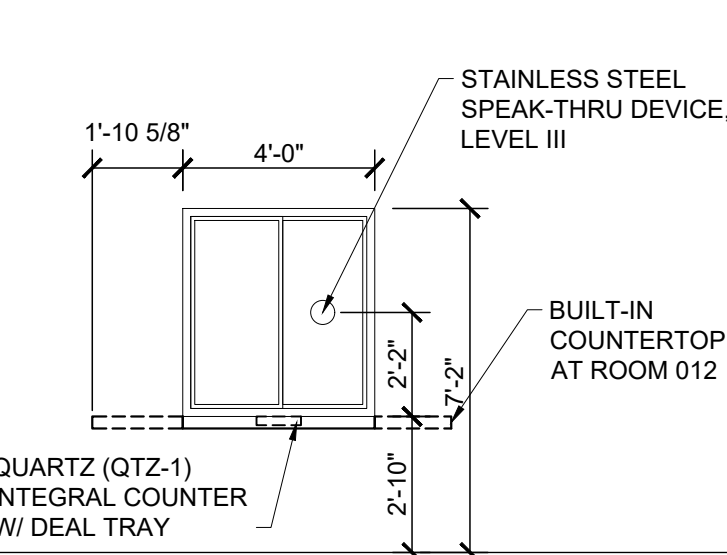
K

ALUMINUM SLIDING DOOR W/
DOUBLE PANED 1/2" TEMPERED
GLASS W/ INTERNAL BLINDS
T = TEMPERED GLASS



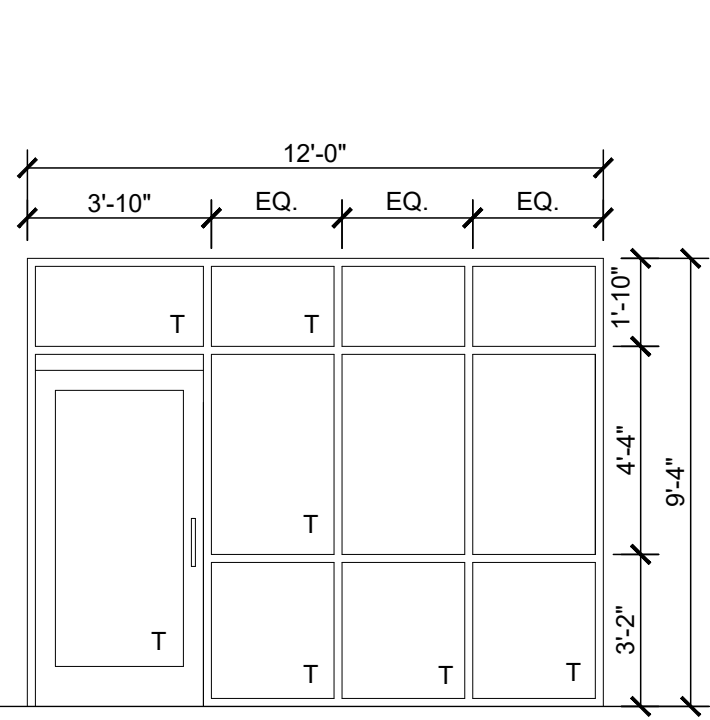
J

ALUMINUM STOREFRONT
SYSTEM W/ 1/2" TEMPERED
GLASS
T = TEMPERED GLASS



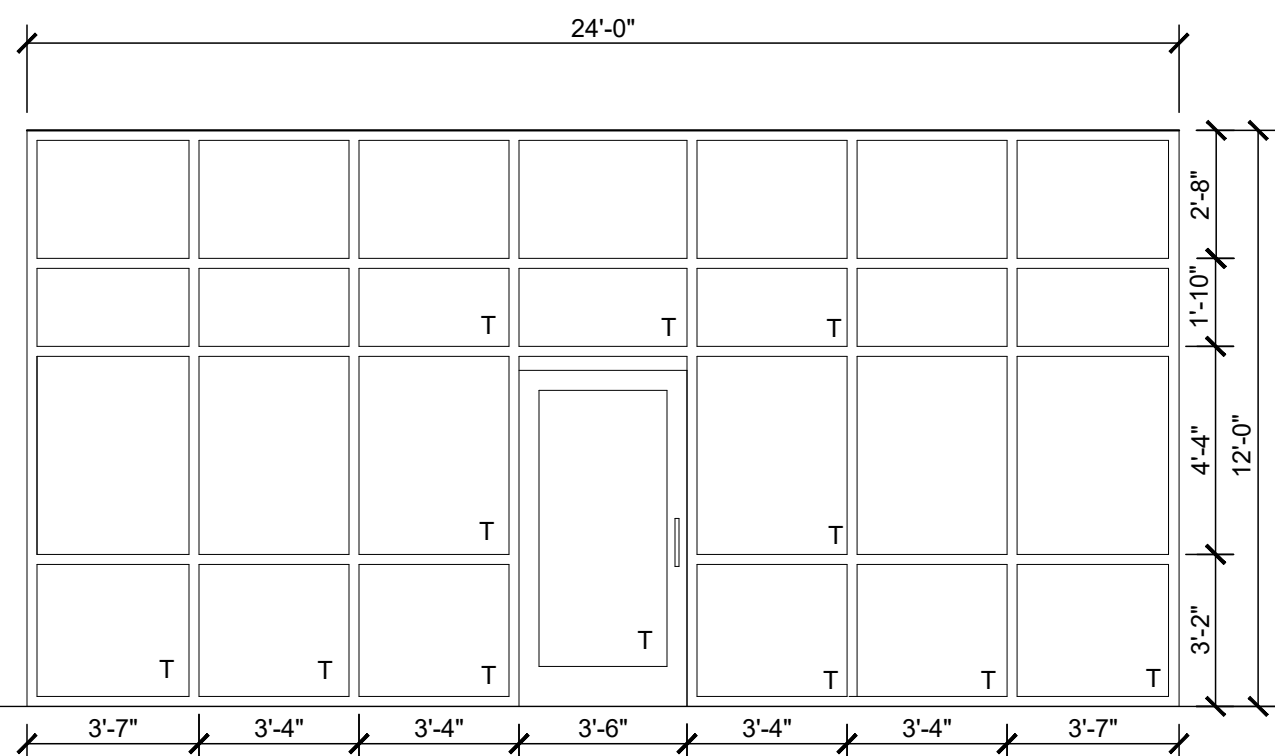
H

LEVEL 3 BULLET RESISTANT
SLIDING TRANSACTION
WINDOW SYSTEM AND
FRAME



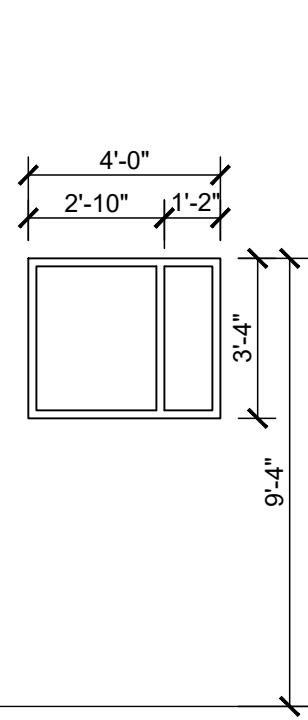
G

ALUMINUM STOREFRONT
SYSTEM W/ 1" INSULATING
GLASS
T = TEMPERED GLASS



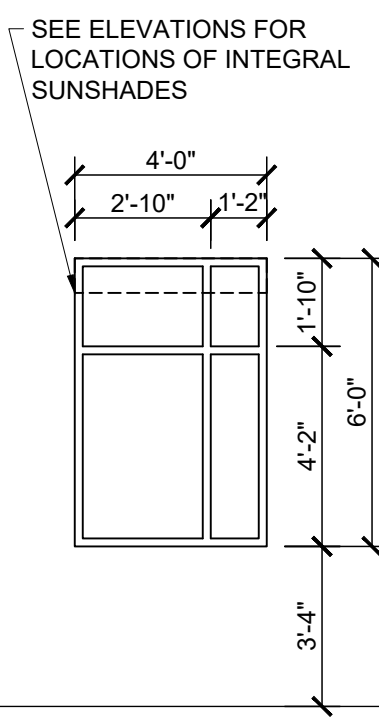
F

8" DEEP CURTAIN
WALL SYSTEM W/ 1" INSULATING GLASS
T = TEMPERED GLASS



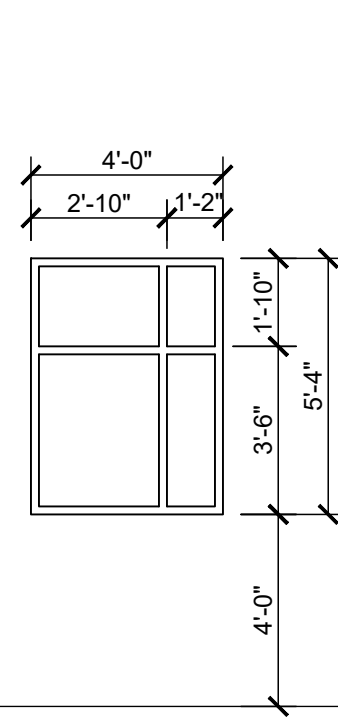
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ALUMINUM STOREFRONT
SYSTEM W/ 1" INSULATING GLASS



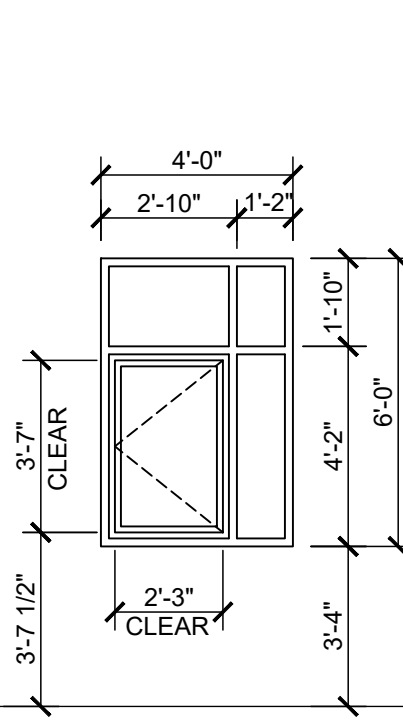
D

ALUMINUM STOREFRONT
SYSTEM W/ 1" INSULATING GLASS



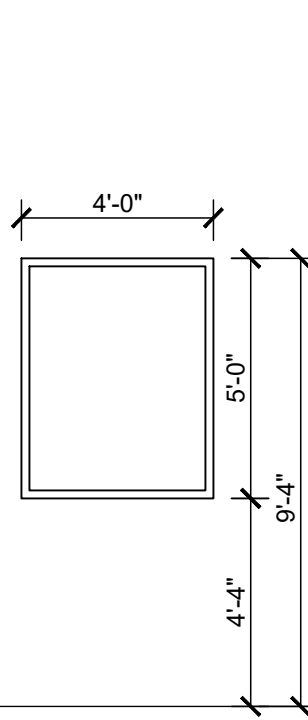
D1

LEVEL IV
BULLET RESISTANT
WINDOW SYSTEM AND FRAME



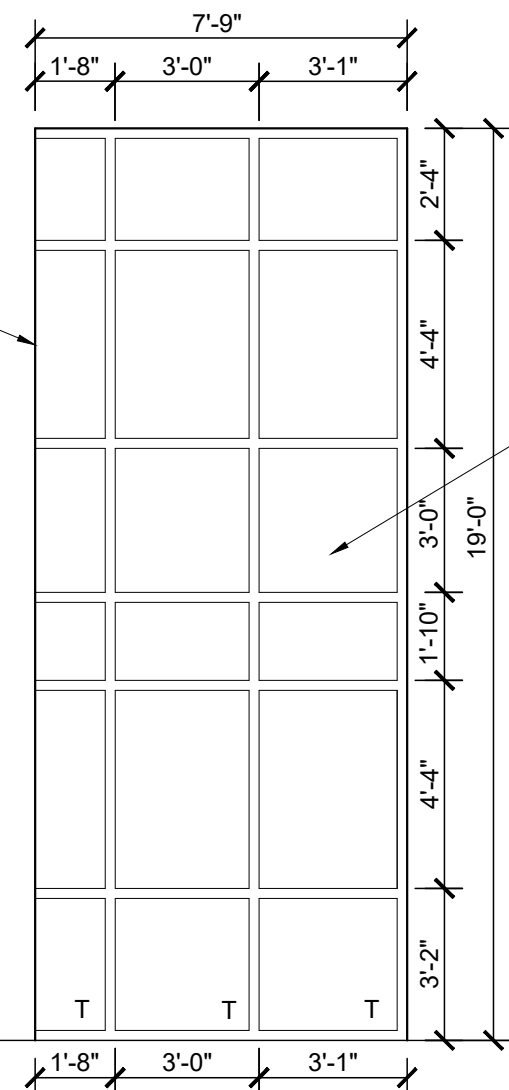
D2

LEVEL IV BULLET RESISTANT
WINDOW SYSTEM AND FRAME
WITH NON-B.R. OPERABLE
ALUMINUM CASEMENT INSERT
WITH LEVEL 2 (1") B.R.
GLASS-CLAD POLYCARBONATE
GLASS



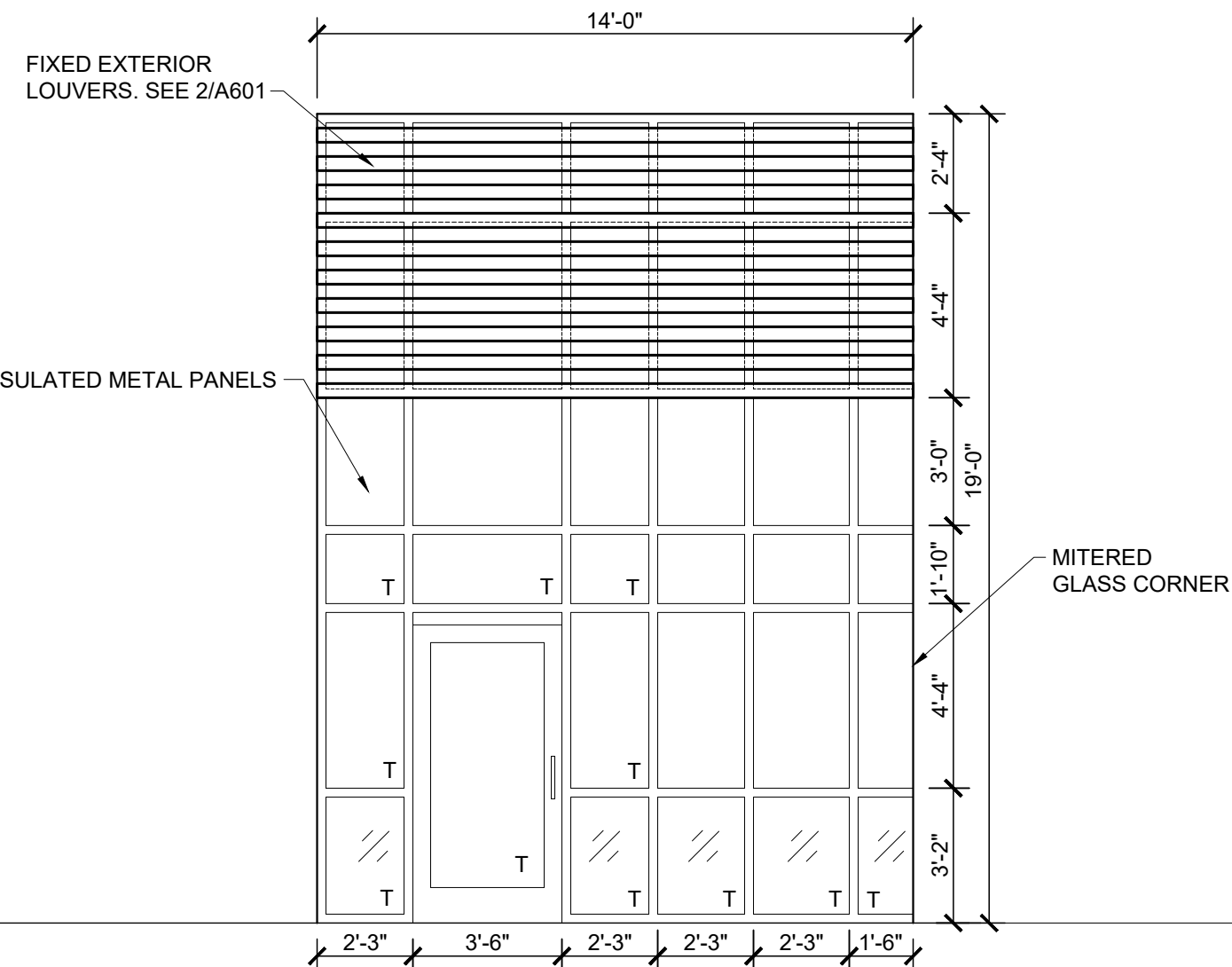
C

ALUMINUM STOREFRONT
SYSTEM W/ 1" INSULATING GLASS



B

8" DEEP CURTAIN
WALL SYSTEM W/ 1" INSULATING GLASS
T = TEMPERED GLASS



A

8" DEEP CURTAIN
WALL SYSTEM W/ 1" INSULATING GLASS
T = TEMPERED GLASS

WINDOW ELEVATIONS

SCALE: 1/4" = 1'-0"

1

SAMPSON COUNTY 911 & ES FACILITIES

CLINTON,
NORTH CAROLINA

CONSTRUCTION
DOCUMENTS

WINDOW ELEVATIONS
AND DETAILS

DATE 12.04.2020
PROJECT NO 20003
REVISIONS
NUM. DATE DESCRIPTION:
REV2 01/09/21 REV2/ADD1

GENERAL COORDINATION

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SEAL

SHEET NUMBER

A601



SAMPSON COUNTY 911 & ES FACILITIES

CLINTON, NORTH CAROLINA

OVERALL FINISH FLOOR PLAN

DATE: 12.04.2020
PROJECT NO: 20003

REVISIONS

NO.	DATE	DESCRIPTION
2 REV	01/09/21	REV2/ADD1

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SHEET NUMBER

A701





SAMPSON COUNTY 911 & ES FACILITIES

CLINTON, NORTH CAROLINA

MAIN BUILDING FINISH FLOOR PLAN

DATE: 12.04.2020
PROJECT NO: 20003

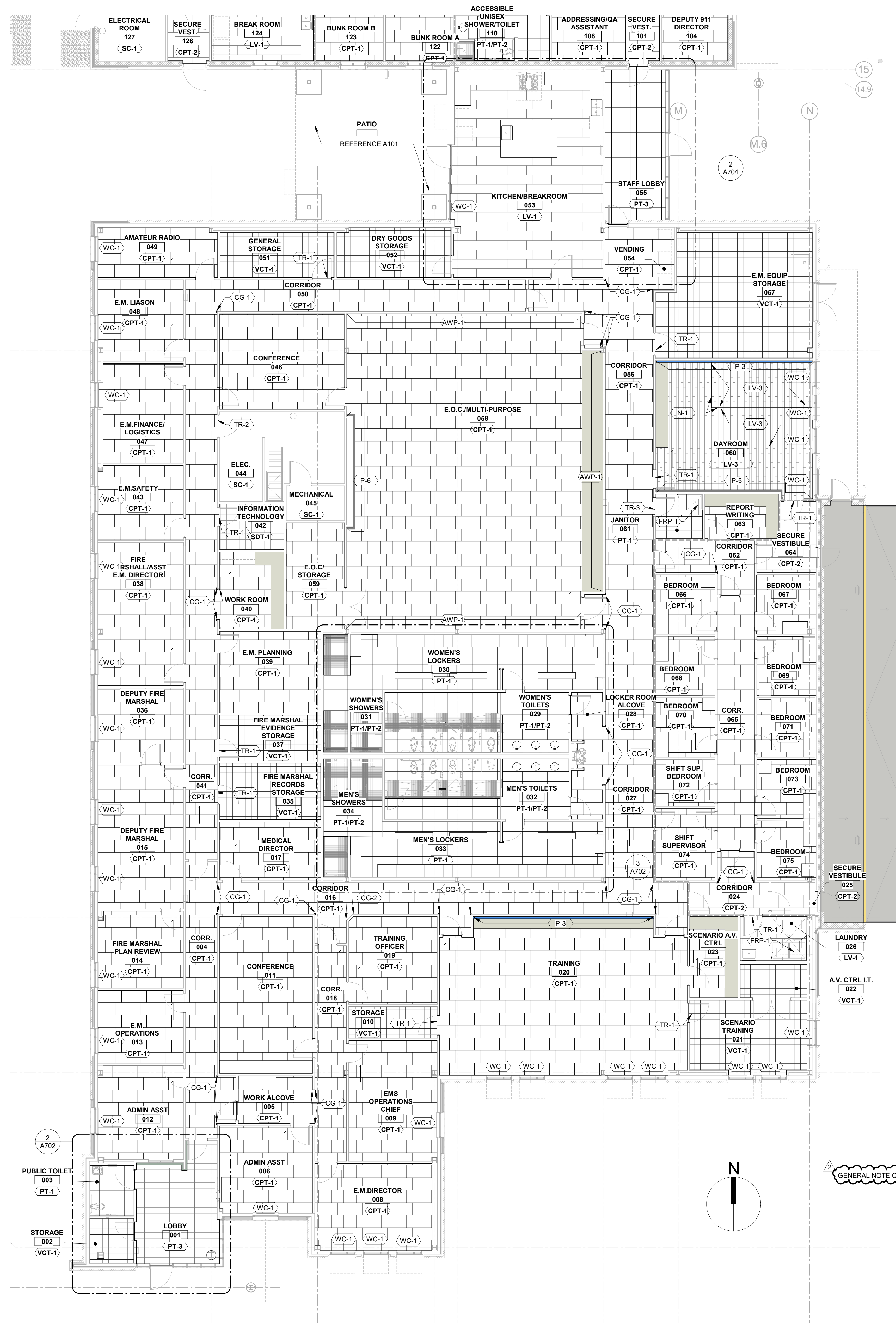
REVISIONS
NO. DATE DESCRIPTION
2 REV 01/09/21 REV2/ADD1

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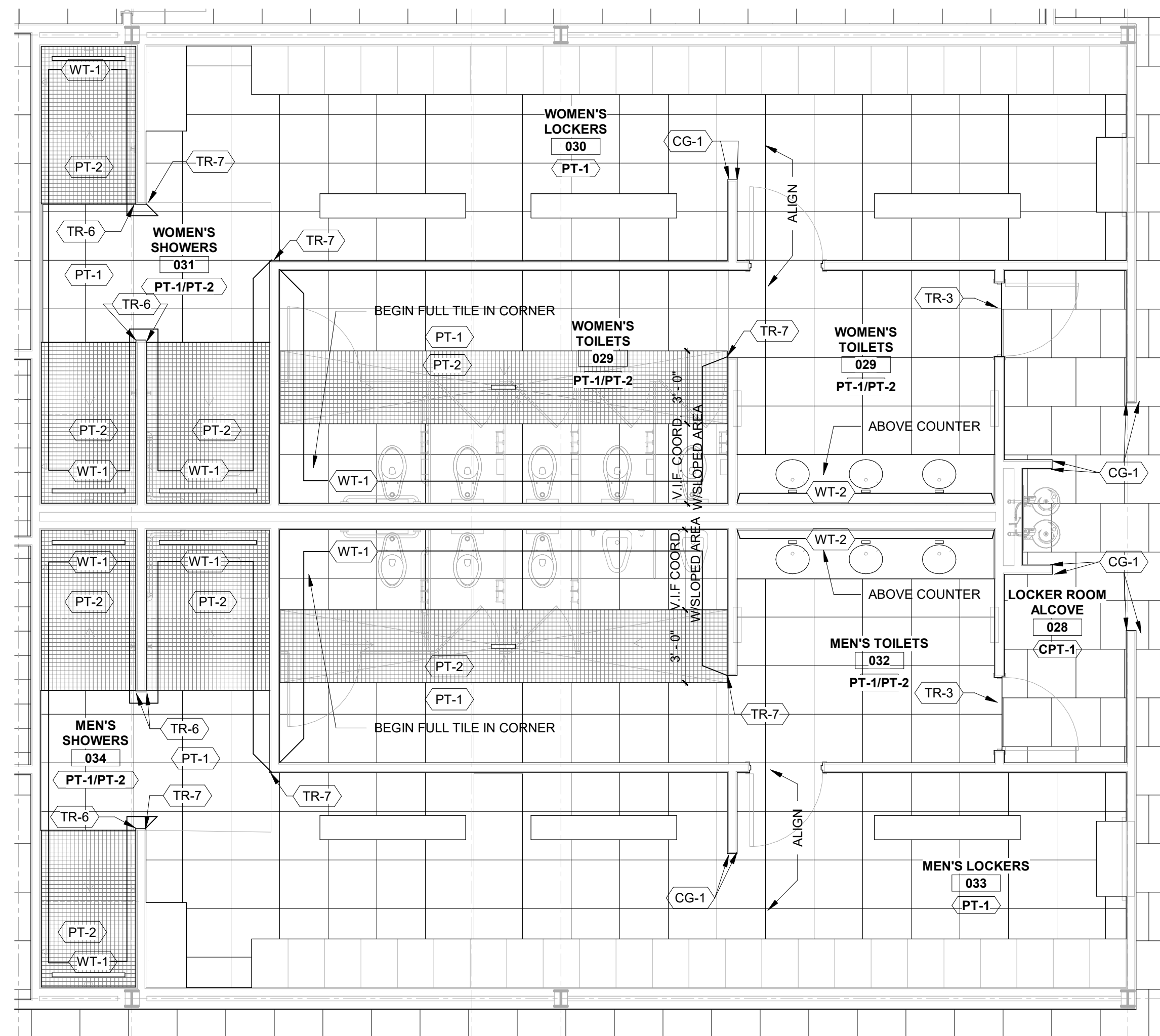


SHEET NUMBER

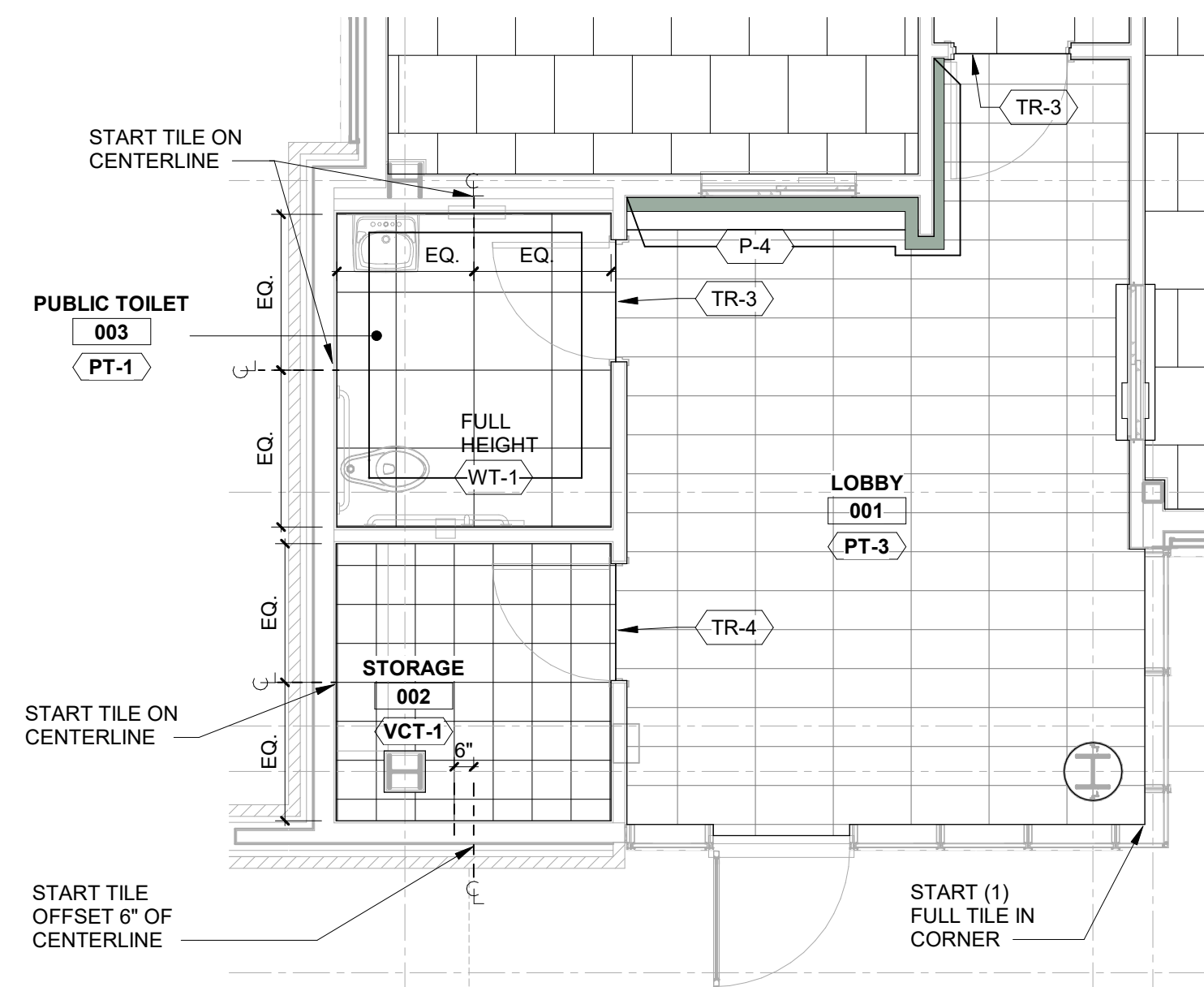
A702



MAIN FINISH FLOOR PLAN 1/8" = 1'-0" 1



ENLARGED - FINISH FLOOR PLAN - WOMEN'S & MEN TLT. & SHOWERS 1/4" = 1'-0" 3



ENLARGED - FINISH PLAN - TOILET & LOBBY 1/4" = 1'-0" 2



SAMPSON
COUNTY 911 &
ES FACILITIES

CLINTON, NORTH
CAROLINA

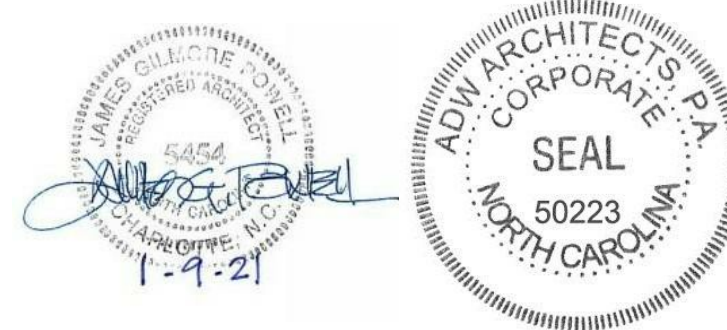
EMS WING FINISH FLOOR
PLAN

DATE: 12.04.2020
PROJECT NO: 20003

REVISIONS

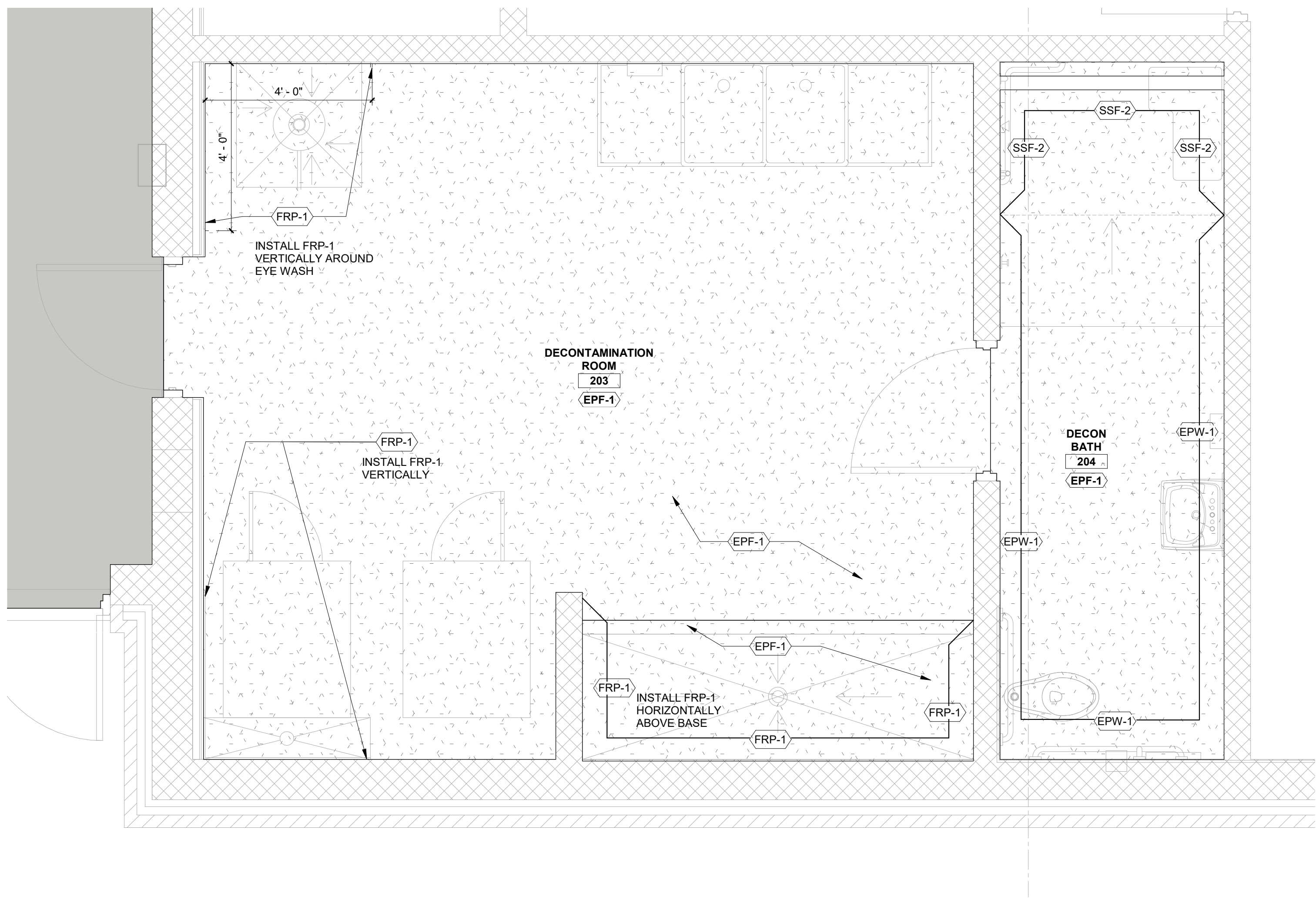
NO.	DATE	DESCRIPTION
2 REV	01/09/21	REV2/ADD1

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SHEET NUMBER

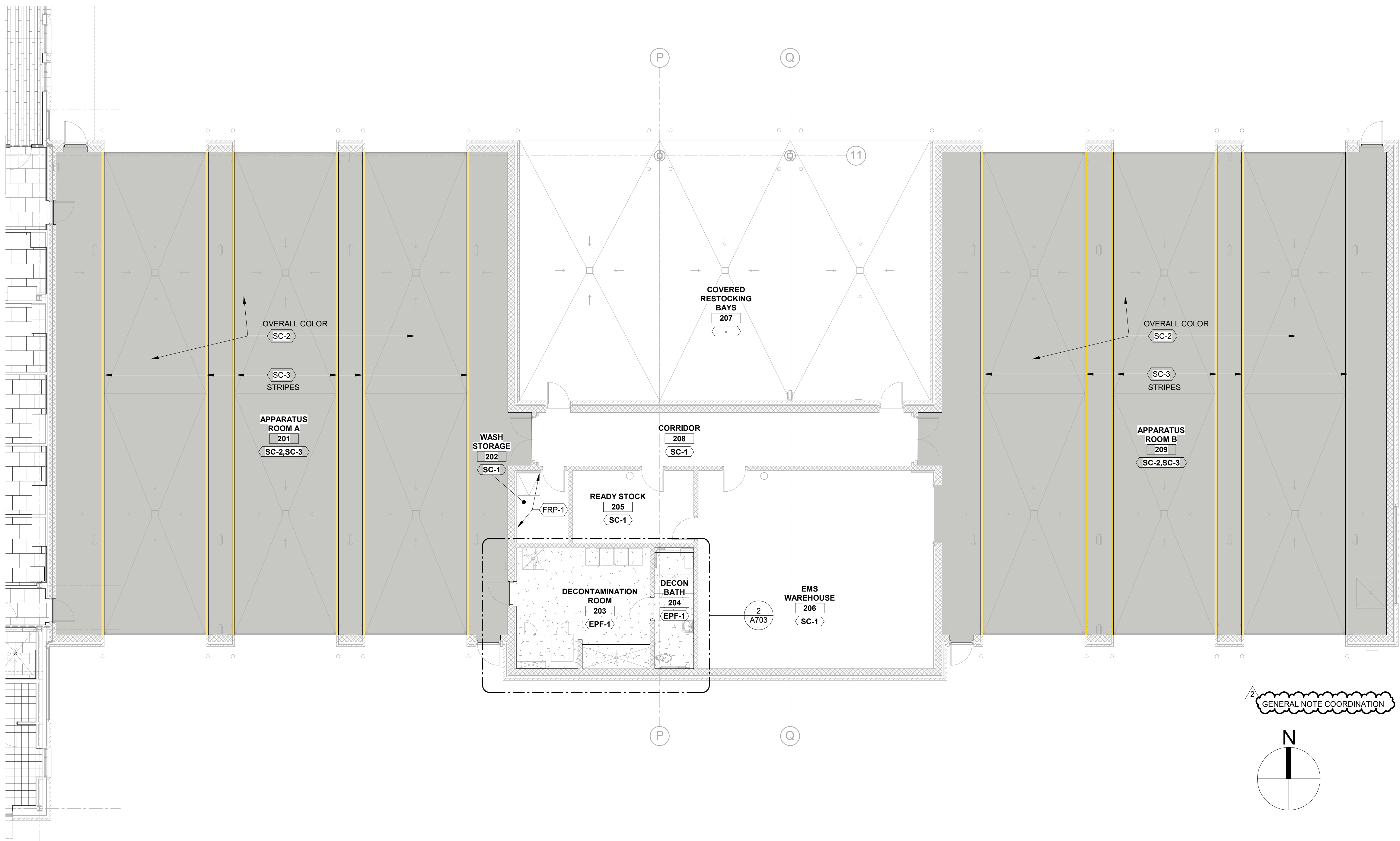
A703



ENLARGED FINISH FLOOR PLAN - DECON 203 & DECON BATH 204

1/2" = 1'-0"

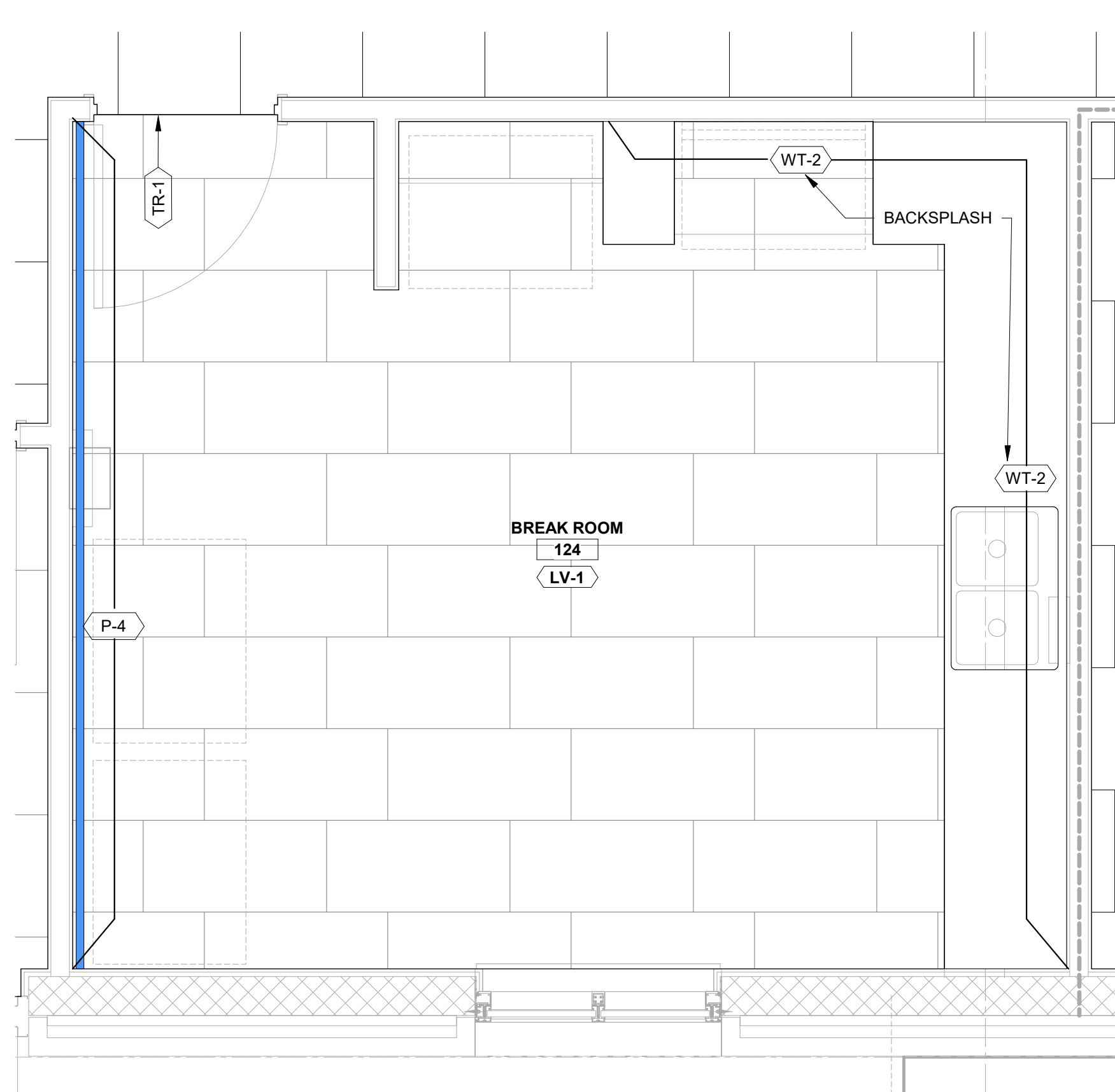
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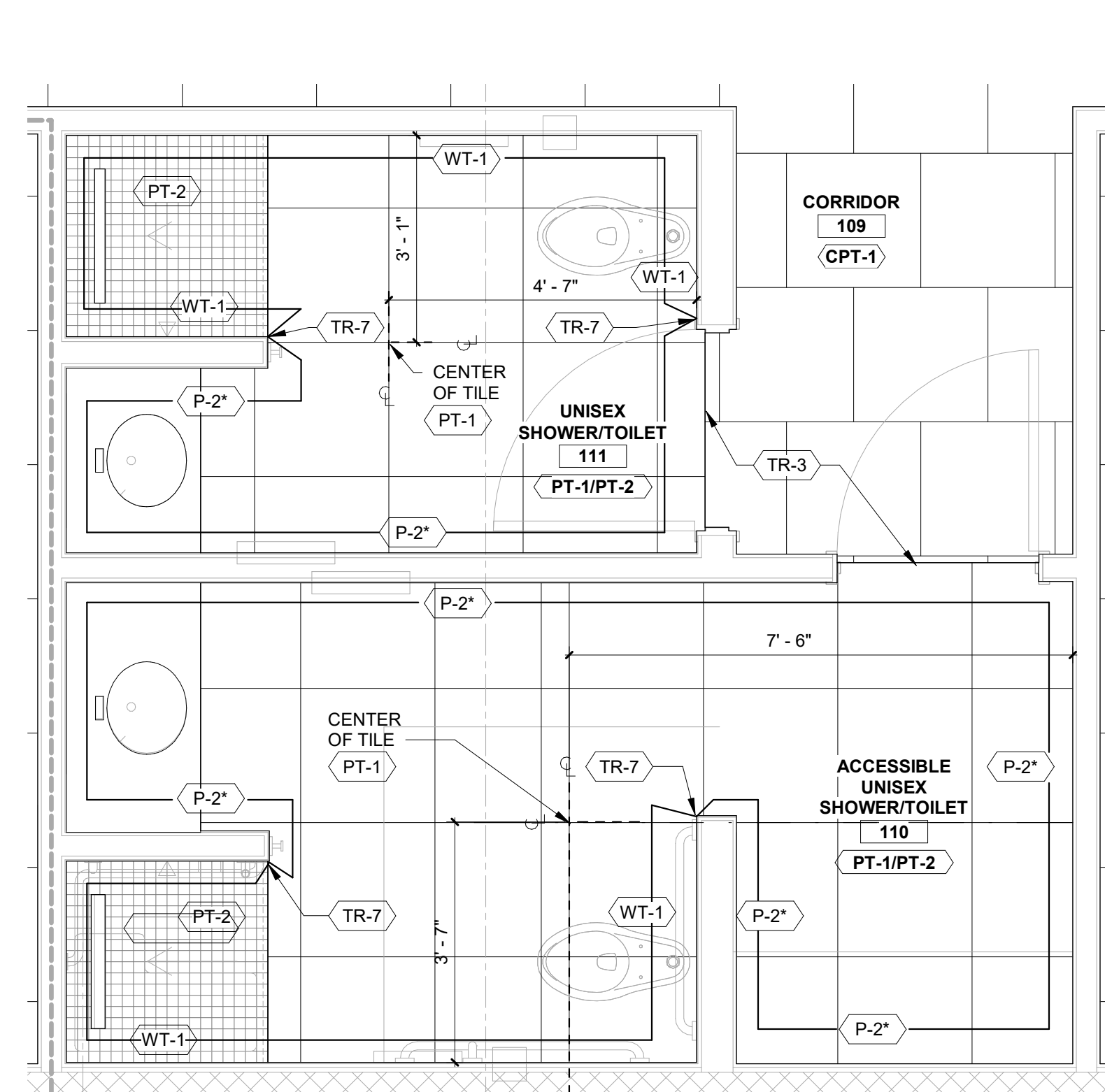
EMS FINISH FLOOR PLAN

1/8" = 1'-0"

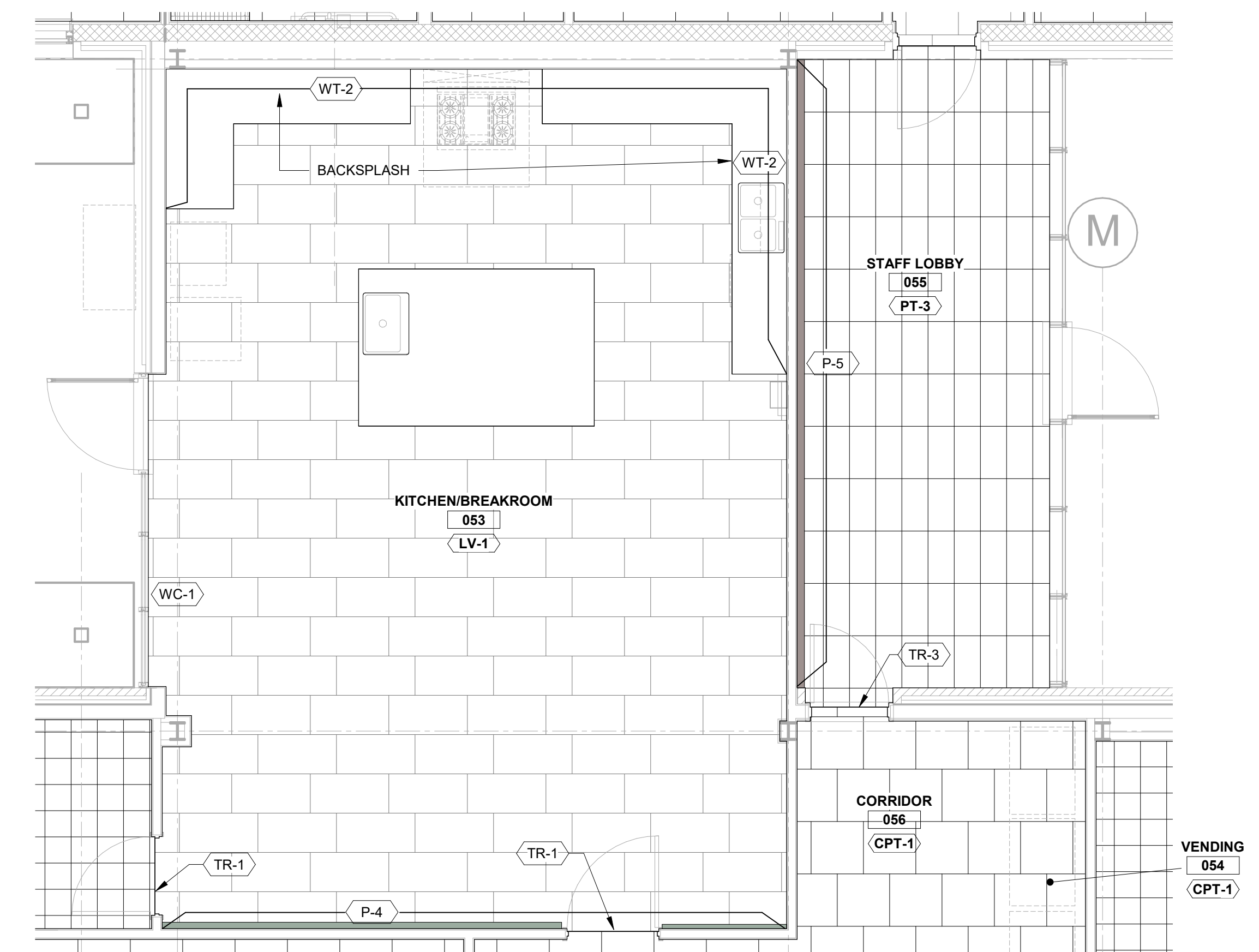
1



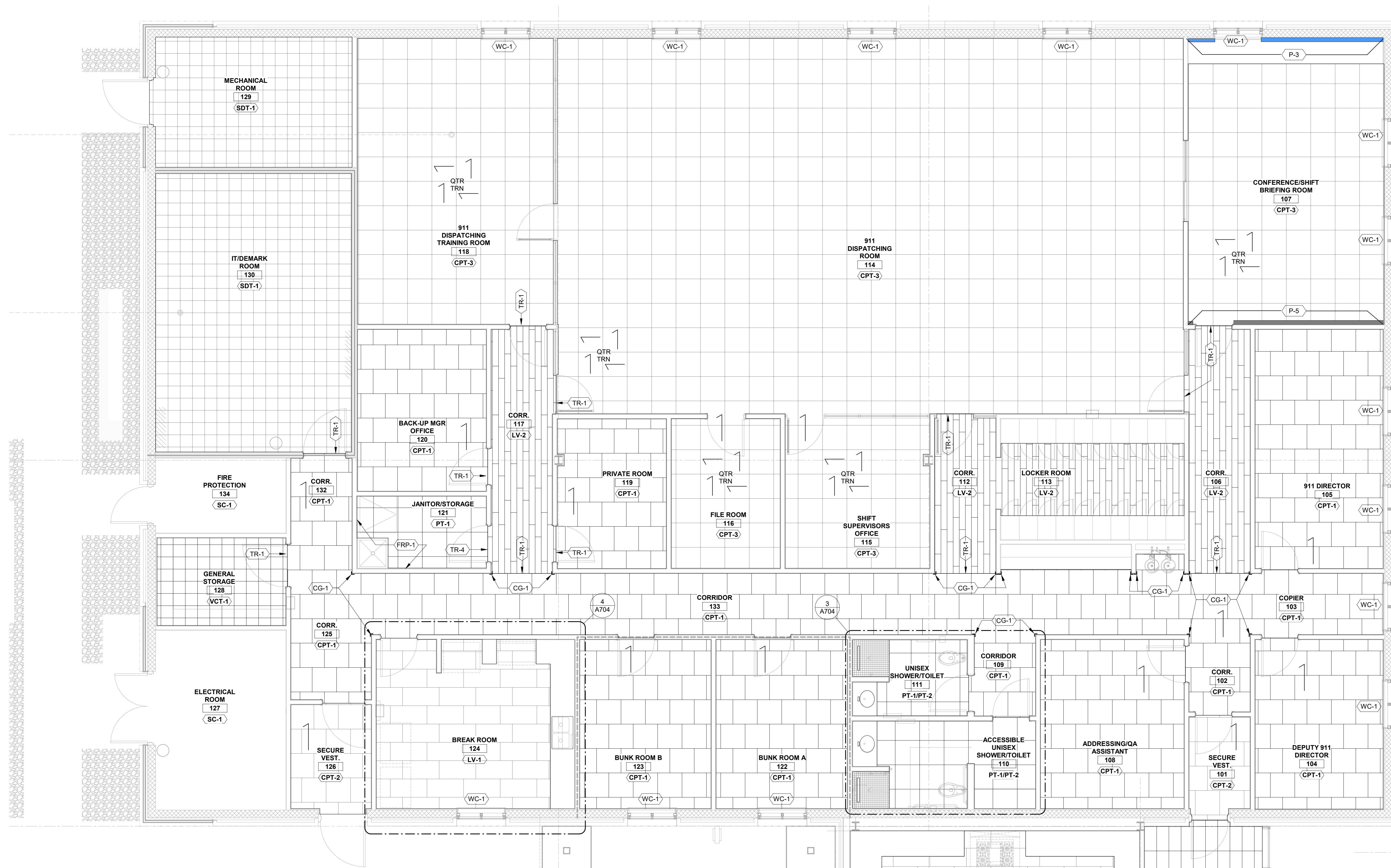
ENLARGED FINISH FLOOR PLAN - BREAK 124 | 1/2" = 1'-0" 4



ENLARGED FINISH FLOOR PLAN - 110 & 111 | 1/2" = 1'-0" 3



ENLARGED - FINISH FLOOR PLAN - KIT/BREAK 053 & STAFF LOBBY 055 | 1/4" = 1'-0" 2



911 FINISH FLOOR PLAN | 1/4" = 1'-0" 1



SAMPSON COUNTY 911 & ES FACILITIES

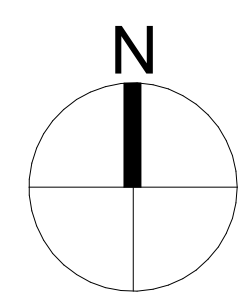
CLINTON, NORTH CAROLINA

911 FINISH FLOOR PLAN

DATE: 12.04.2020
PROJECT NO: 20003

REVISIONS
NO. DATE DESCRIPTION
2 REV 01/09/21 REV2/ADD1

GENERAL NOTE COORDINATION



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SHEET NUMBER

A704



SAMPSON COUNTY 911 & ES FACILITIES

CLINTON, NORTH CAROLINA

INTERIOR DETAILS

DATE: 12.04.2020
PROJECT NO: 20003

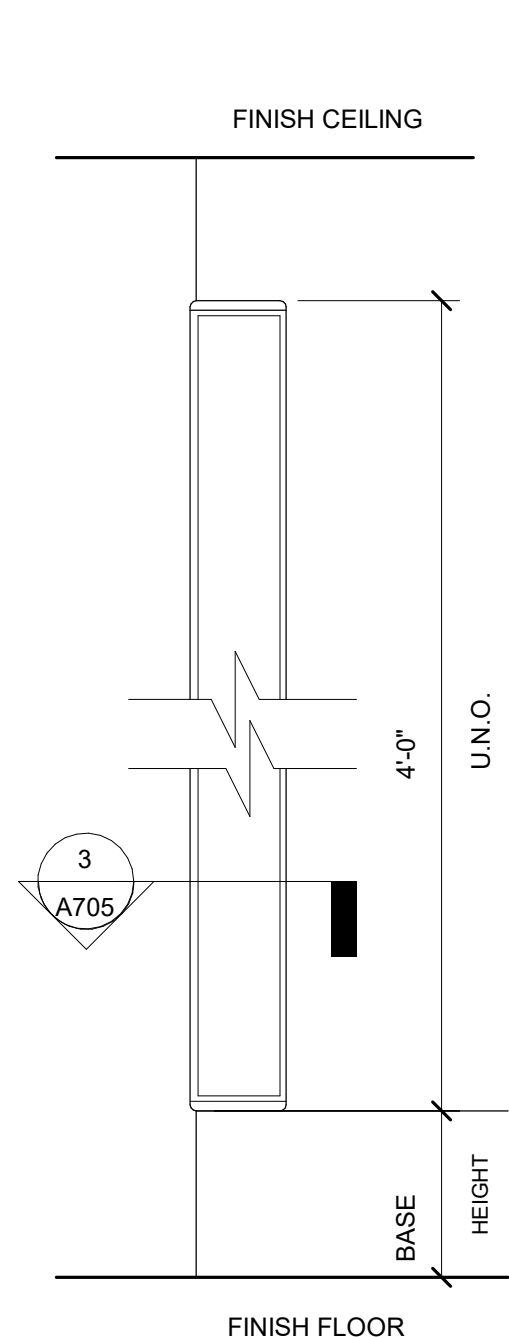
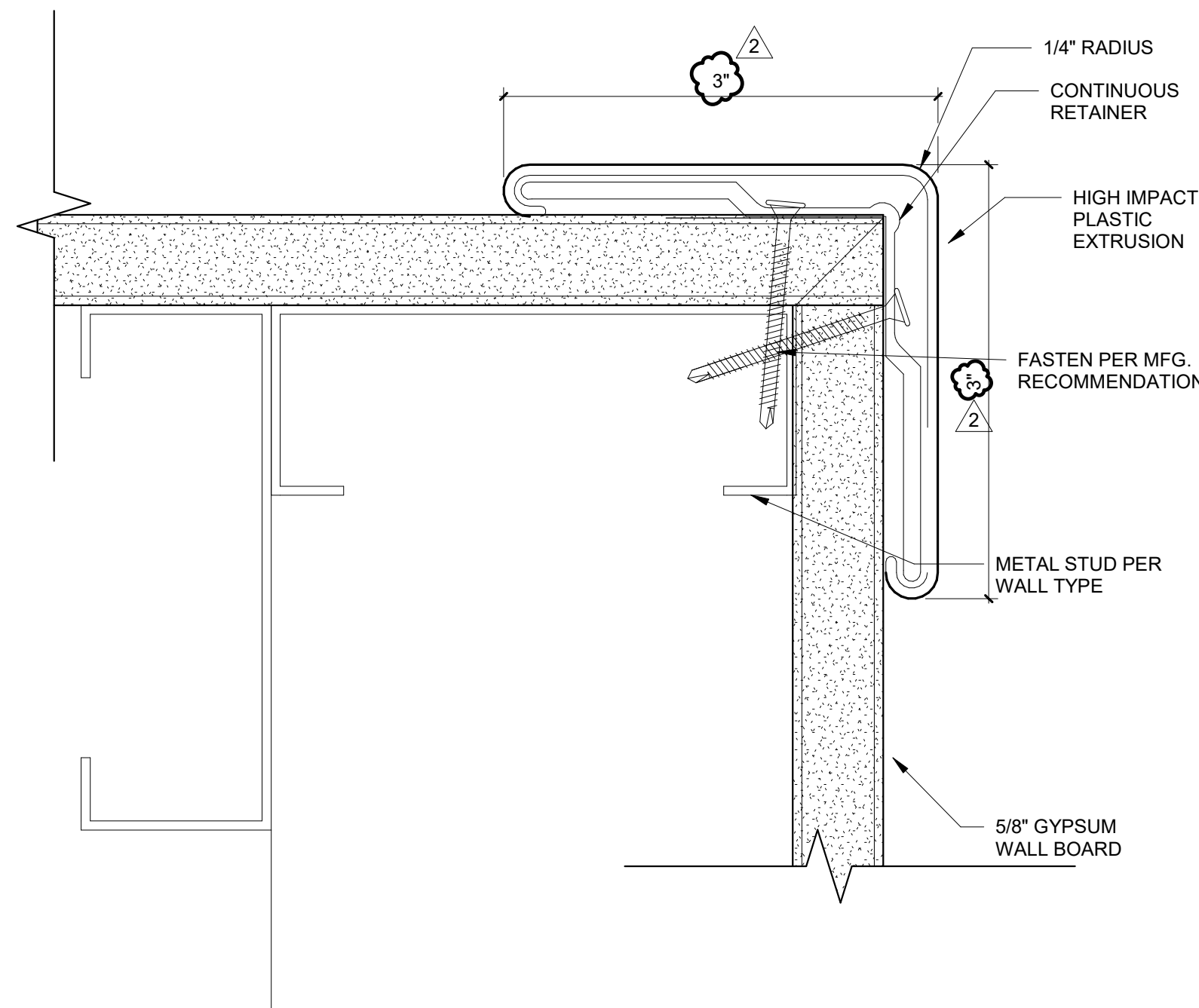
REVISIONS		
NO.	DATE	DESCRIPTION
2 REV	01/09/21	REV2/ADD1

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SHEET NUMBER

A705



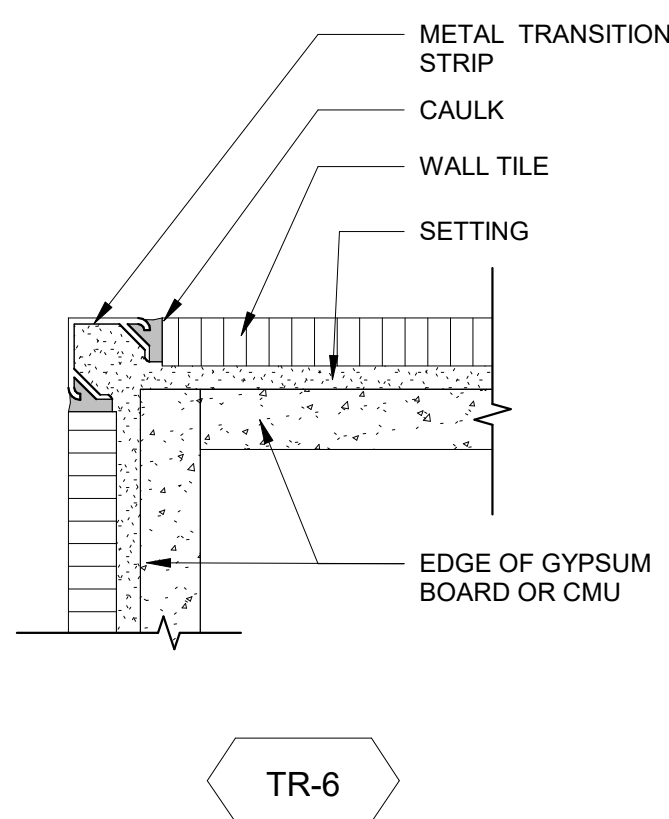
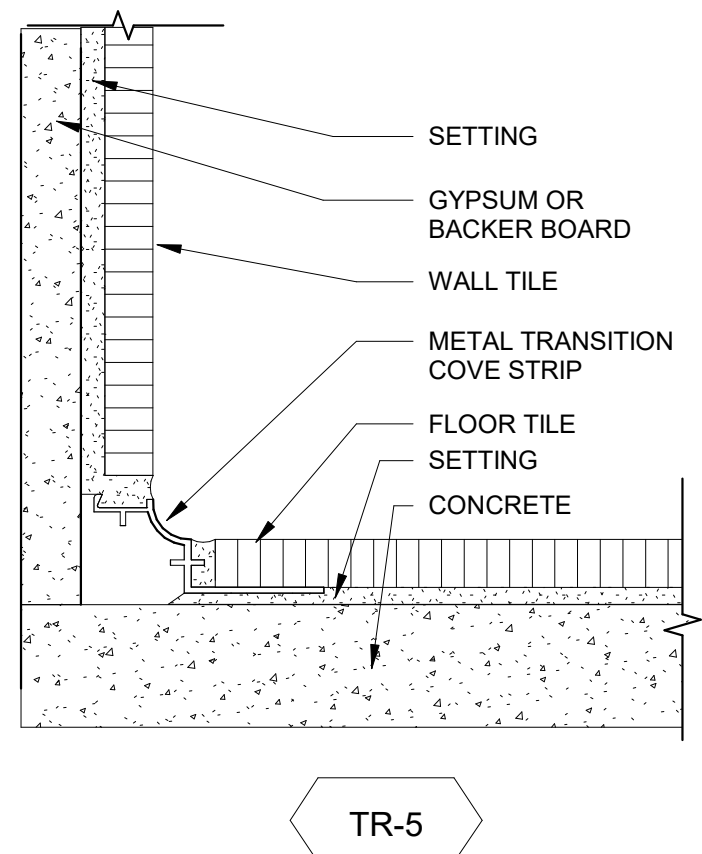
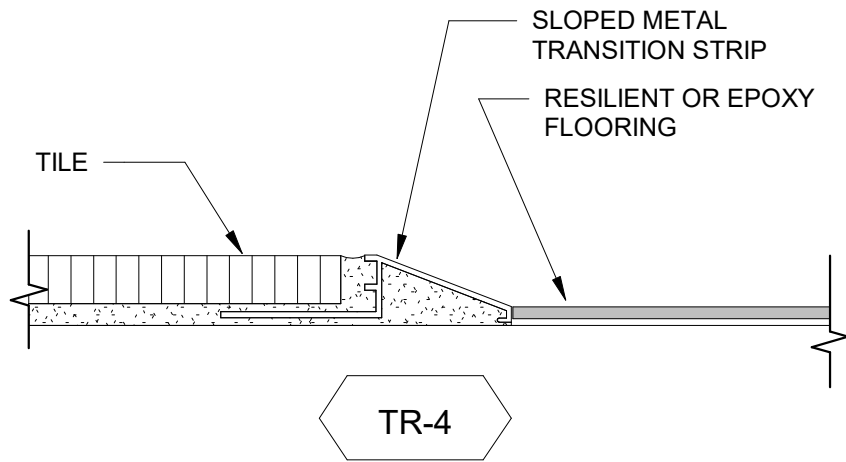
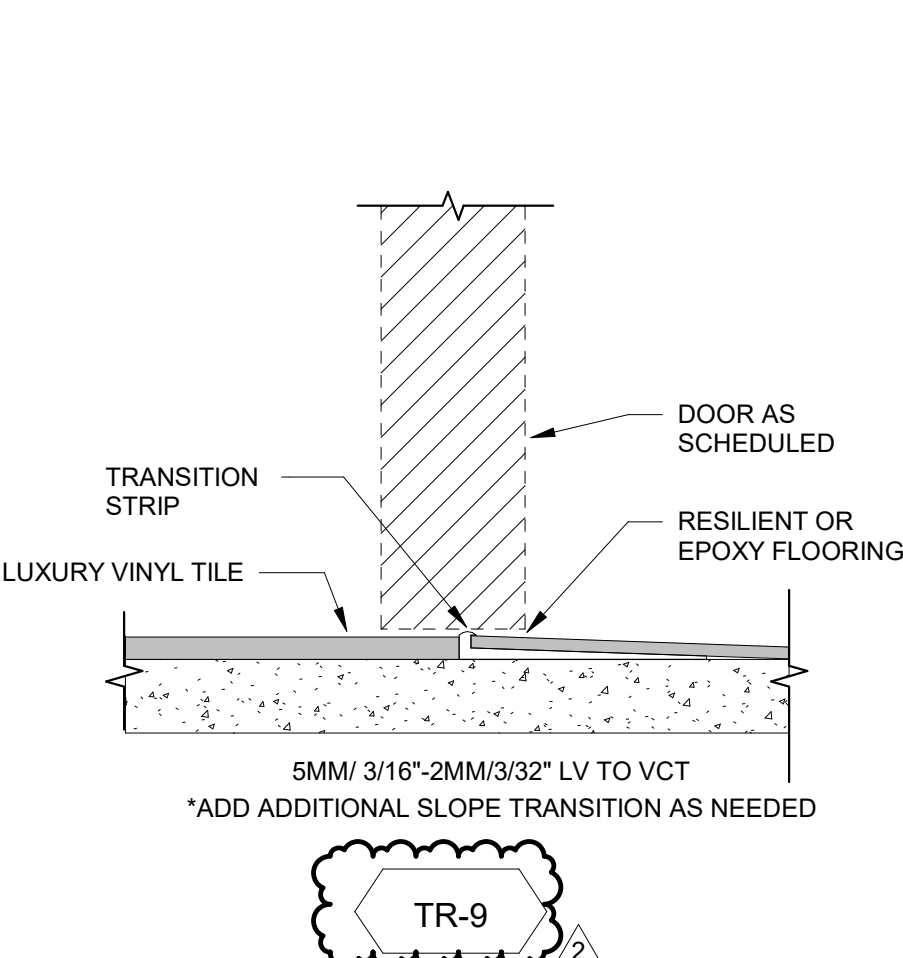
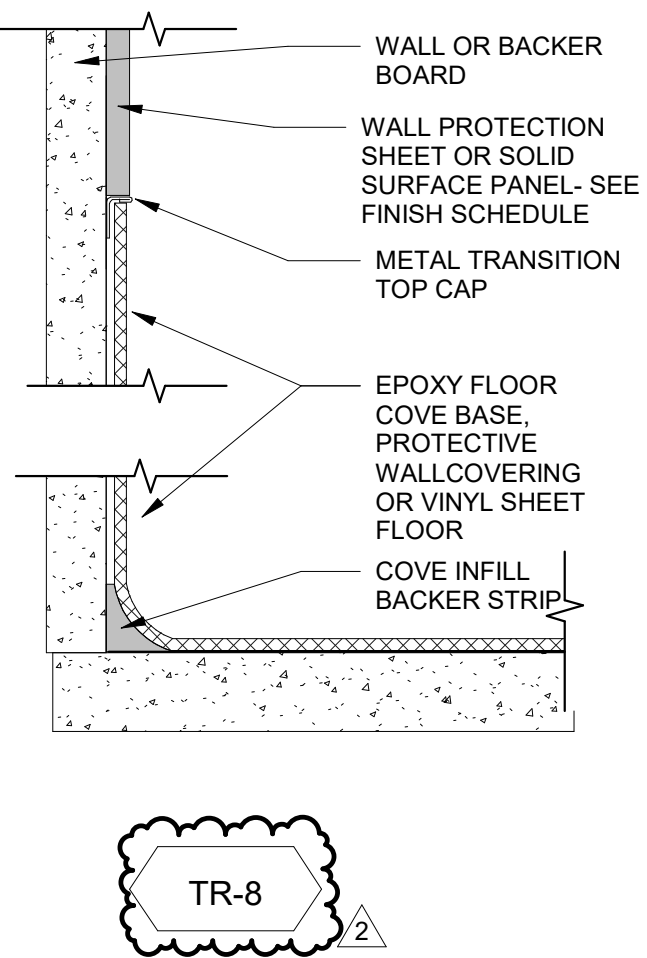
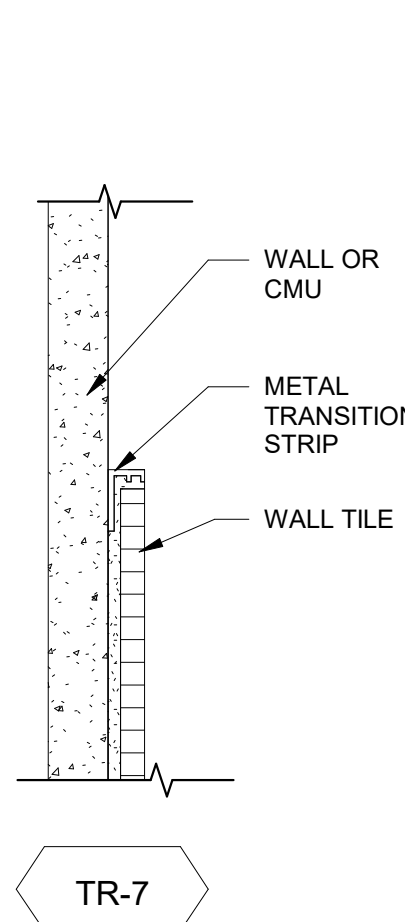
TYP. - CORNER GUARD

NTS

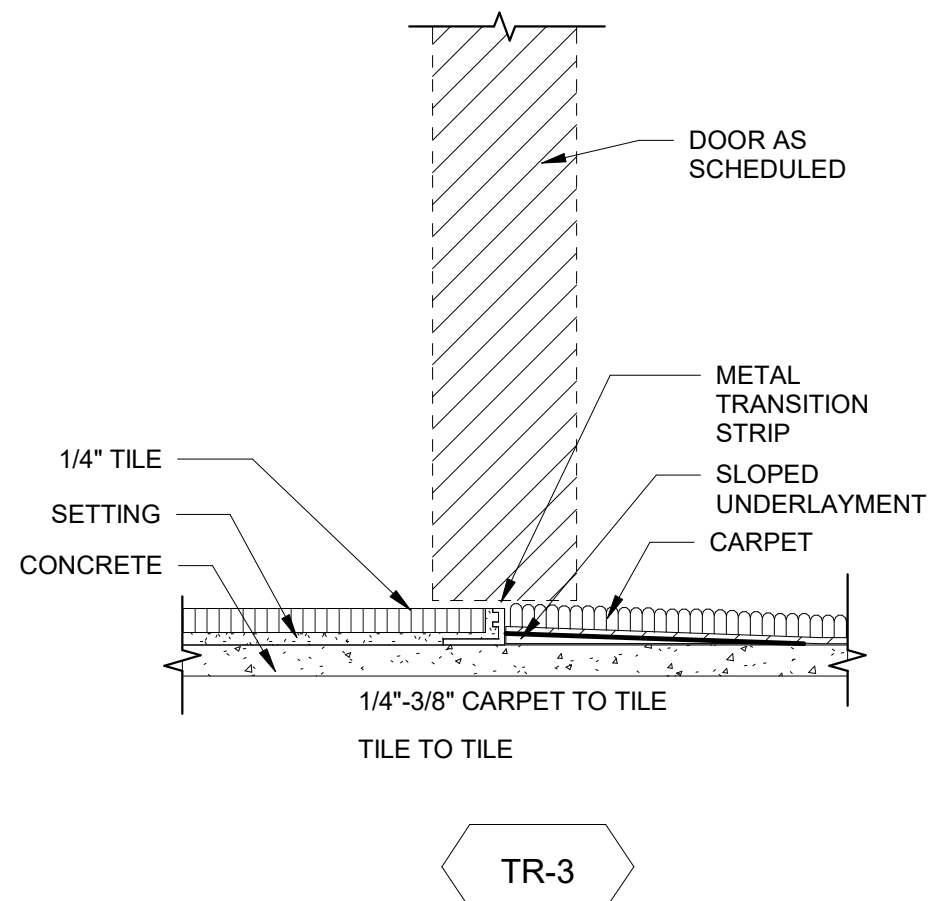
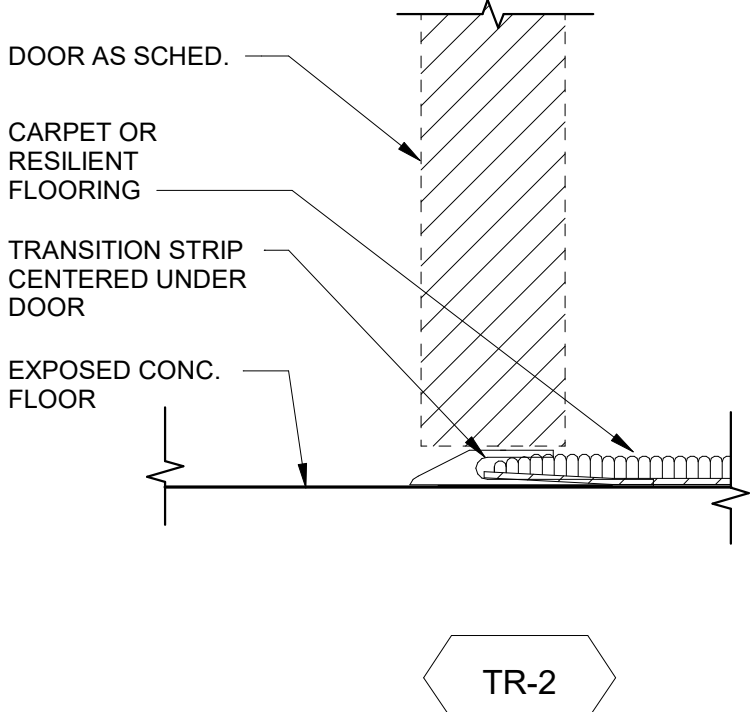
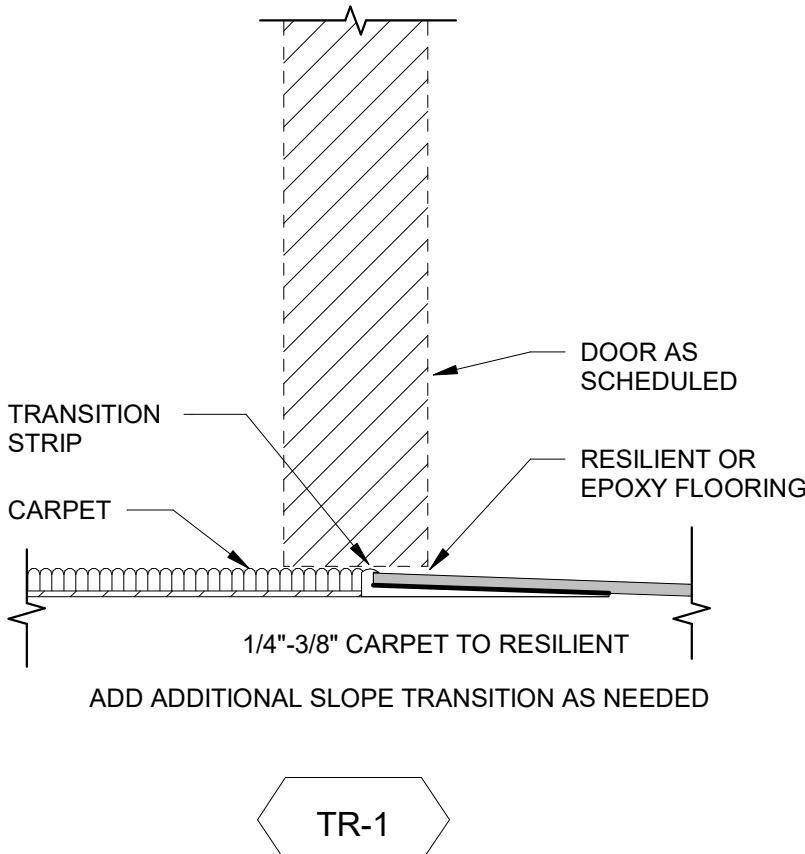
TYP. ELEV. - CORNER GUARD

6" = 1'-0"

2



GENERAL NOTE COORDINATION



TYP. - ODD ANGLE CORNER GUARD

12" = 1'-0"

4

TRANSITION DETAILS

6" = 1'-0"

1



SAMPSON COUNTY 911 & ES FACILITIES

CLINTON,
NORTH CAROLINA

CONSTRUCTION
DOCUMENTS

SIGNAGE PLAN

DATE 12.04.2020

PROJECT NO 20003

REVISIONS

NUM.	DATE	DESCRIPTION:
REV1	12/17/20	REVISION 01
REV2	01/09/21	REV2/ADD1

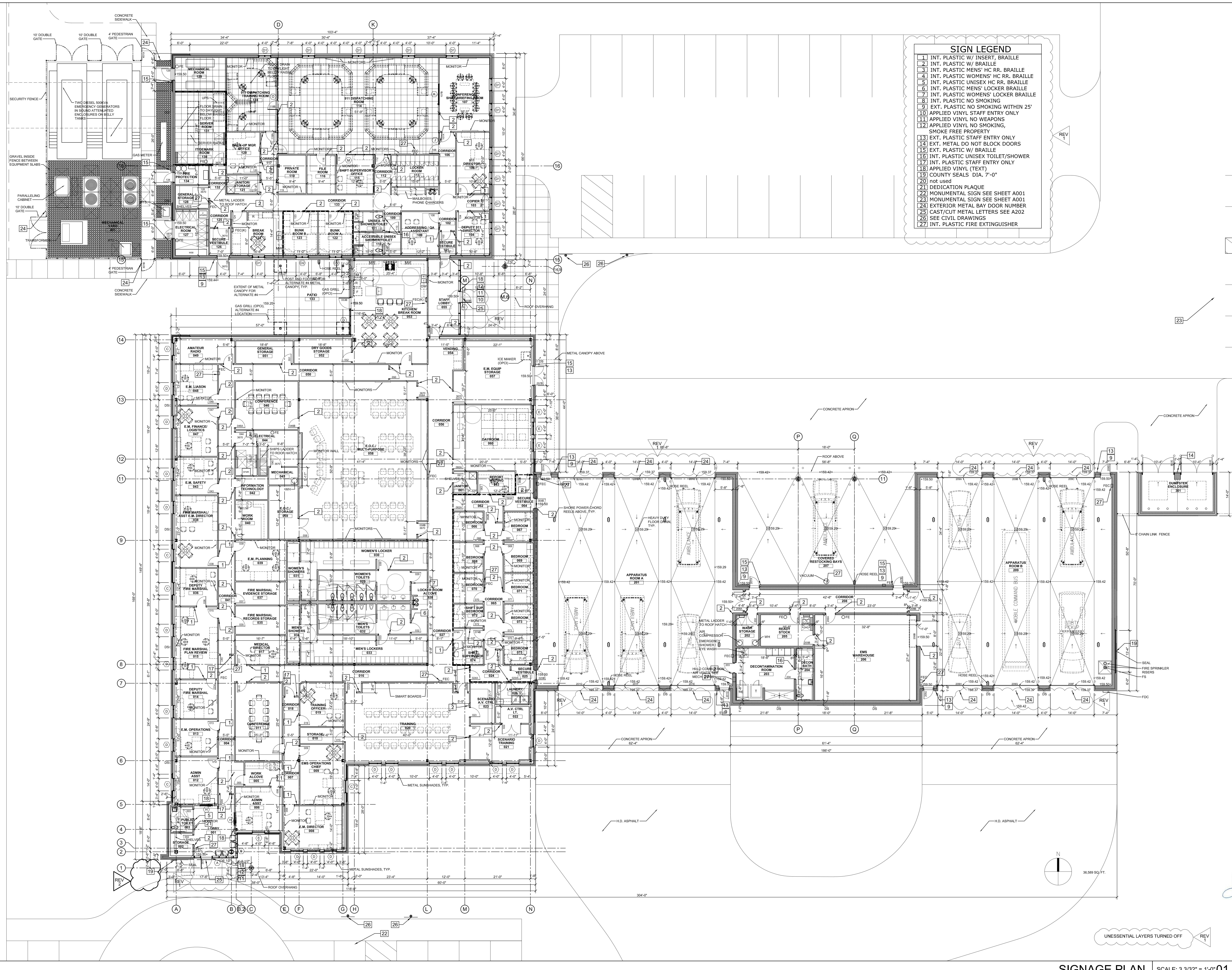
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SEAL

SHEET NUMBER

A711



SIGNAGE PLAN SCALE: 3/32" = 1'-0" 01



SAMPSON COUNTY 911 & ES FACILITIES

CLINTON,
NORTH CAROLINA

CONSTRUCTION
DOCUMENTS

SIGNAGE DETAILS

DATE

12.04.2020

PROJECT NO

20003

REVISIONS

NUM.

DATE

DESCRIPTION:

REV1

12/17/20

REVISION 01

REV2

01/09/21

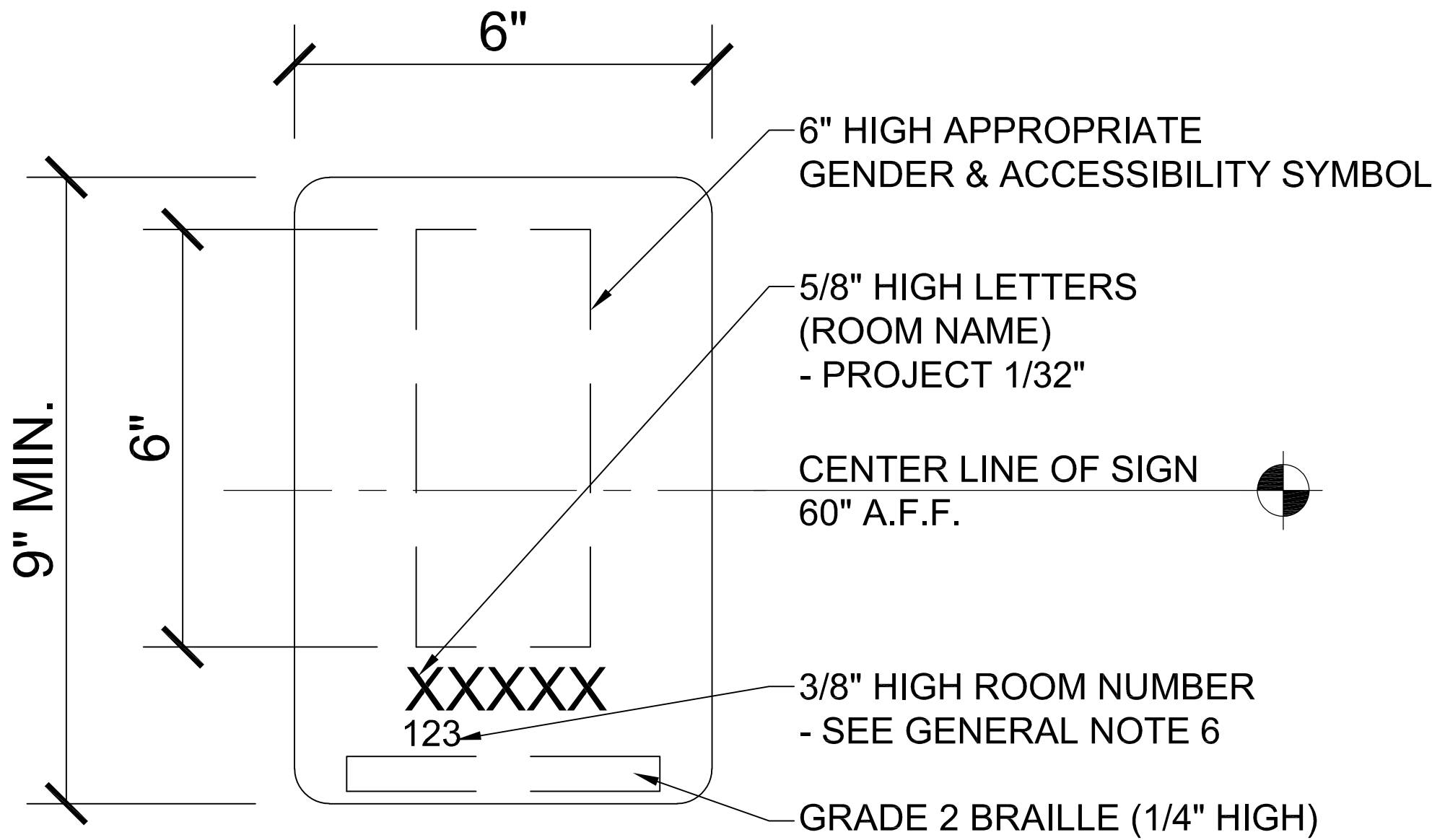
REV2/ADD1

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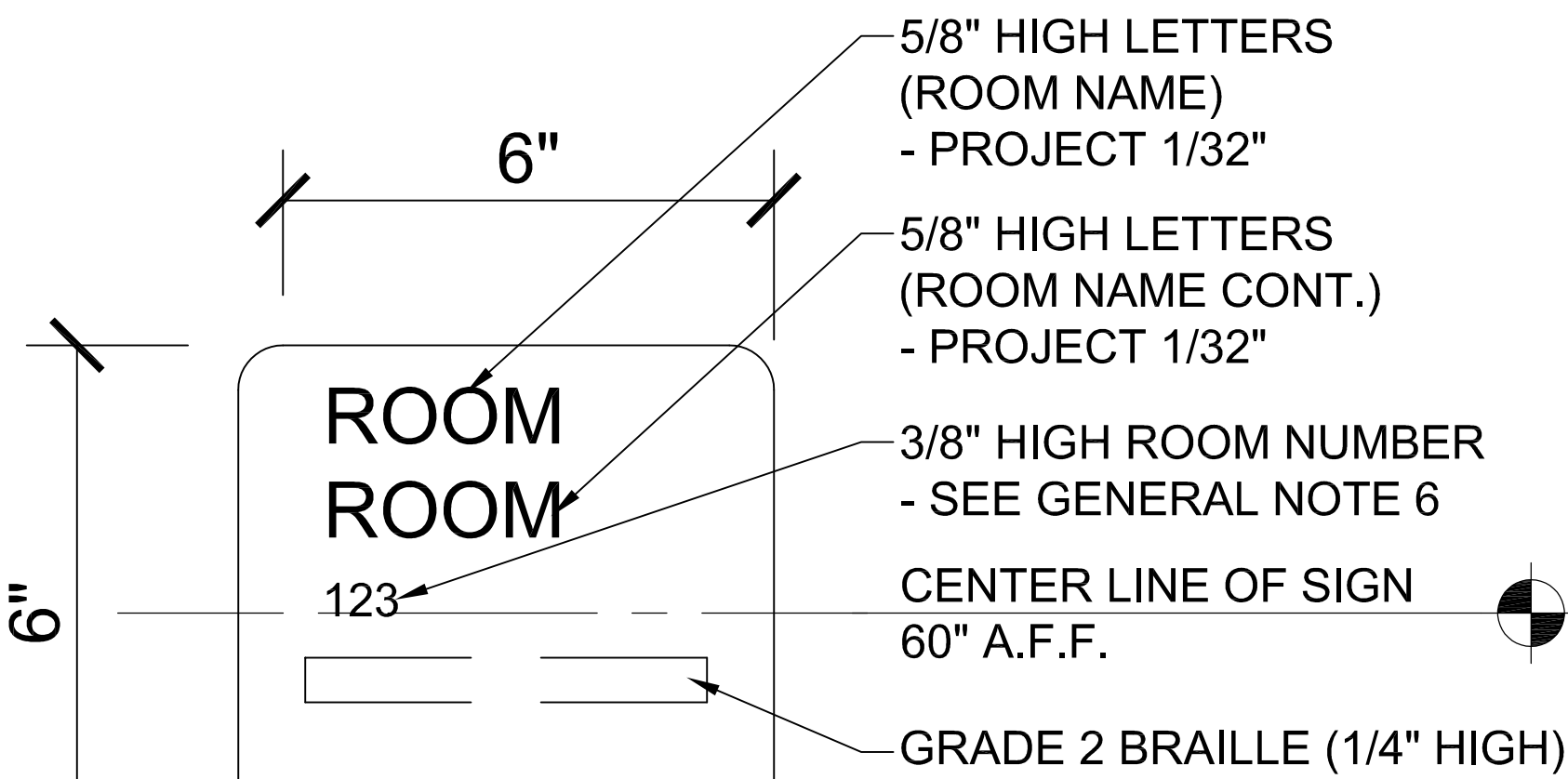
SHEET NUMBER

A712



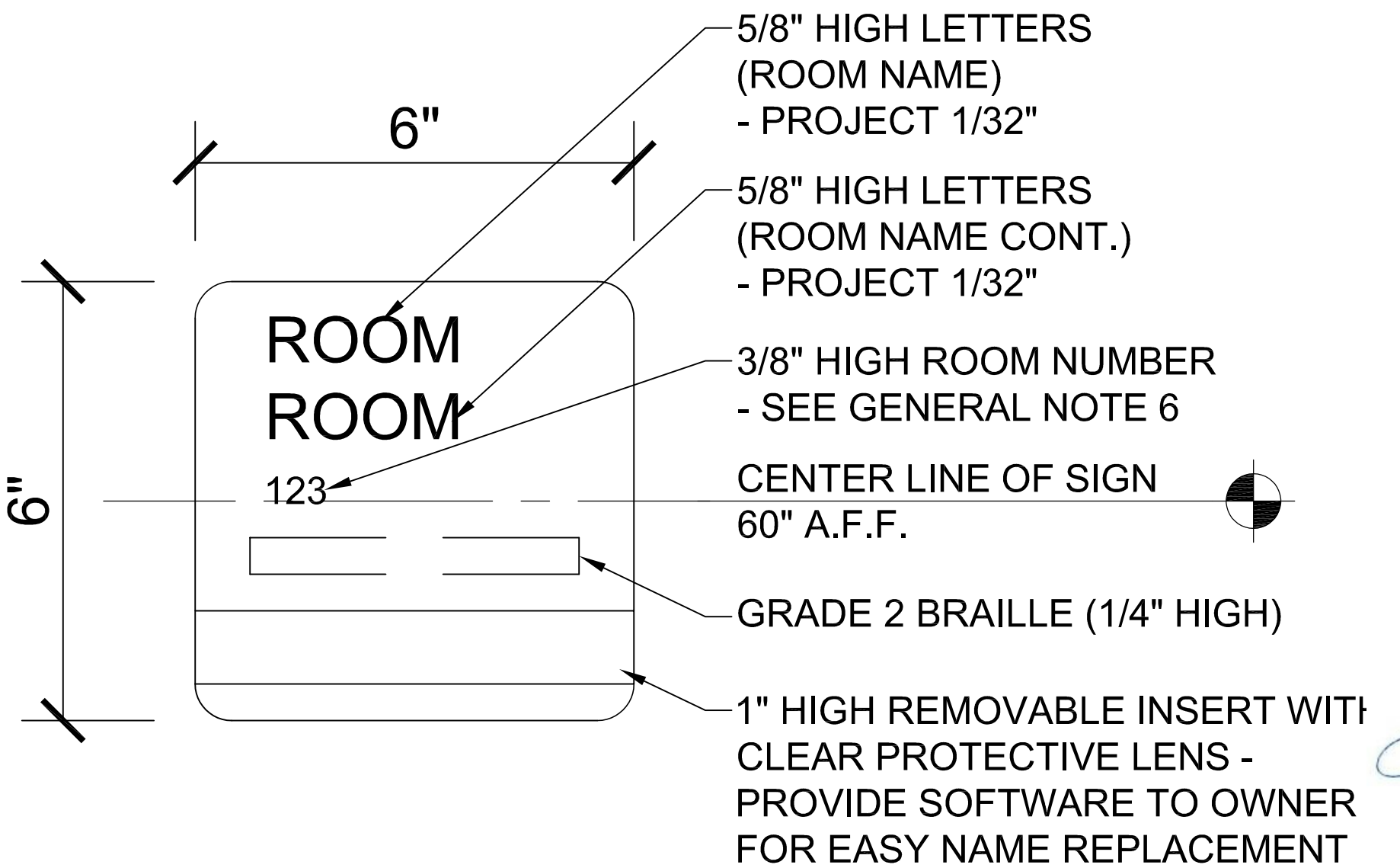
SIGN TYPES 3 THRU 7 AND 16 DETAIL

SCALE: 6" = 1'-0" 03



SIGN TYPES 2 & 15 DETAIL

SCALE: 6" = 1'-0" 02



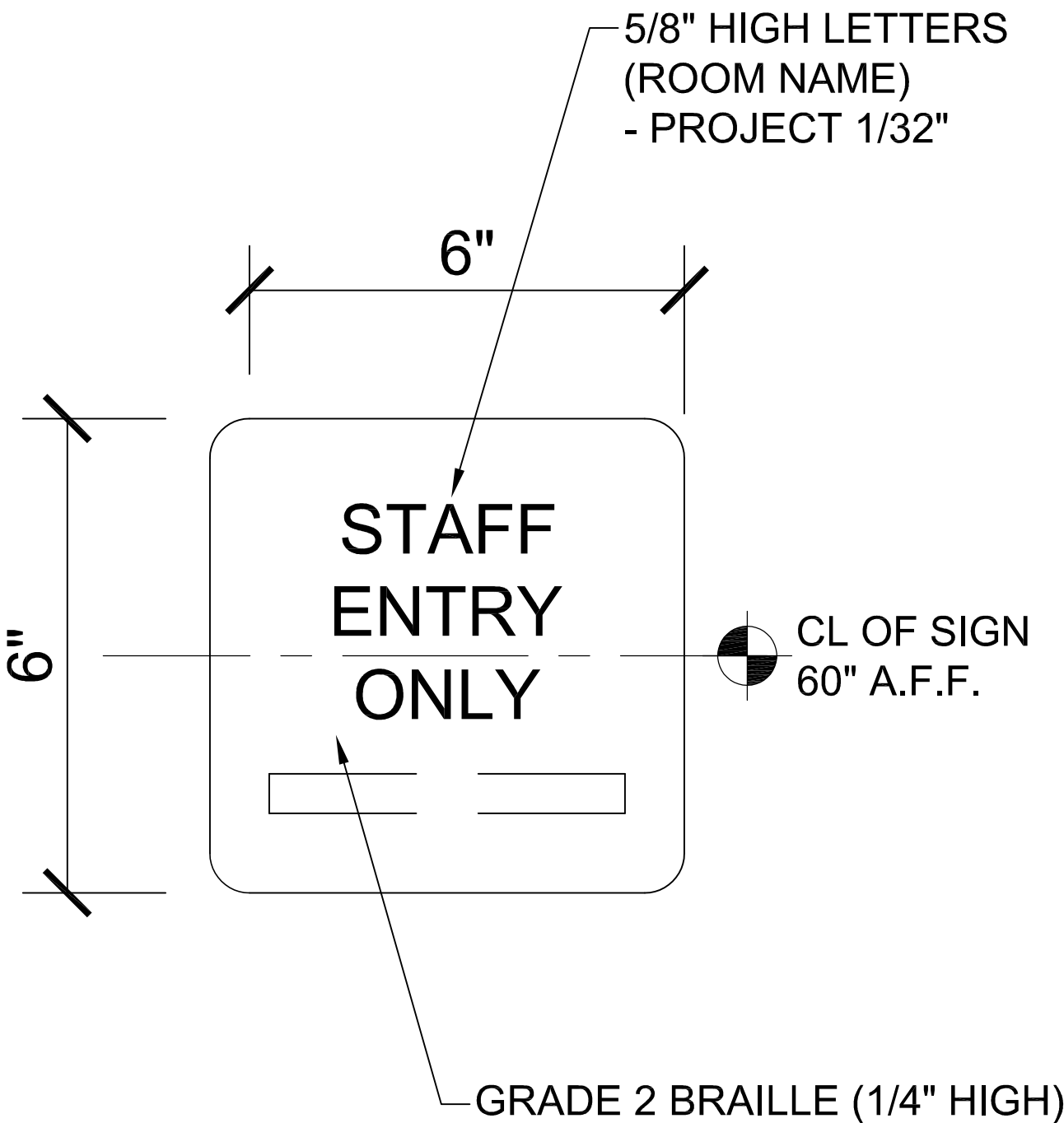
SIGN TYPE 1 DETAIL

SCALE: 6" = 1'-0" 01



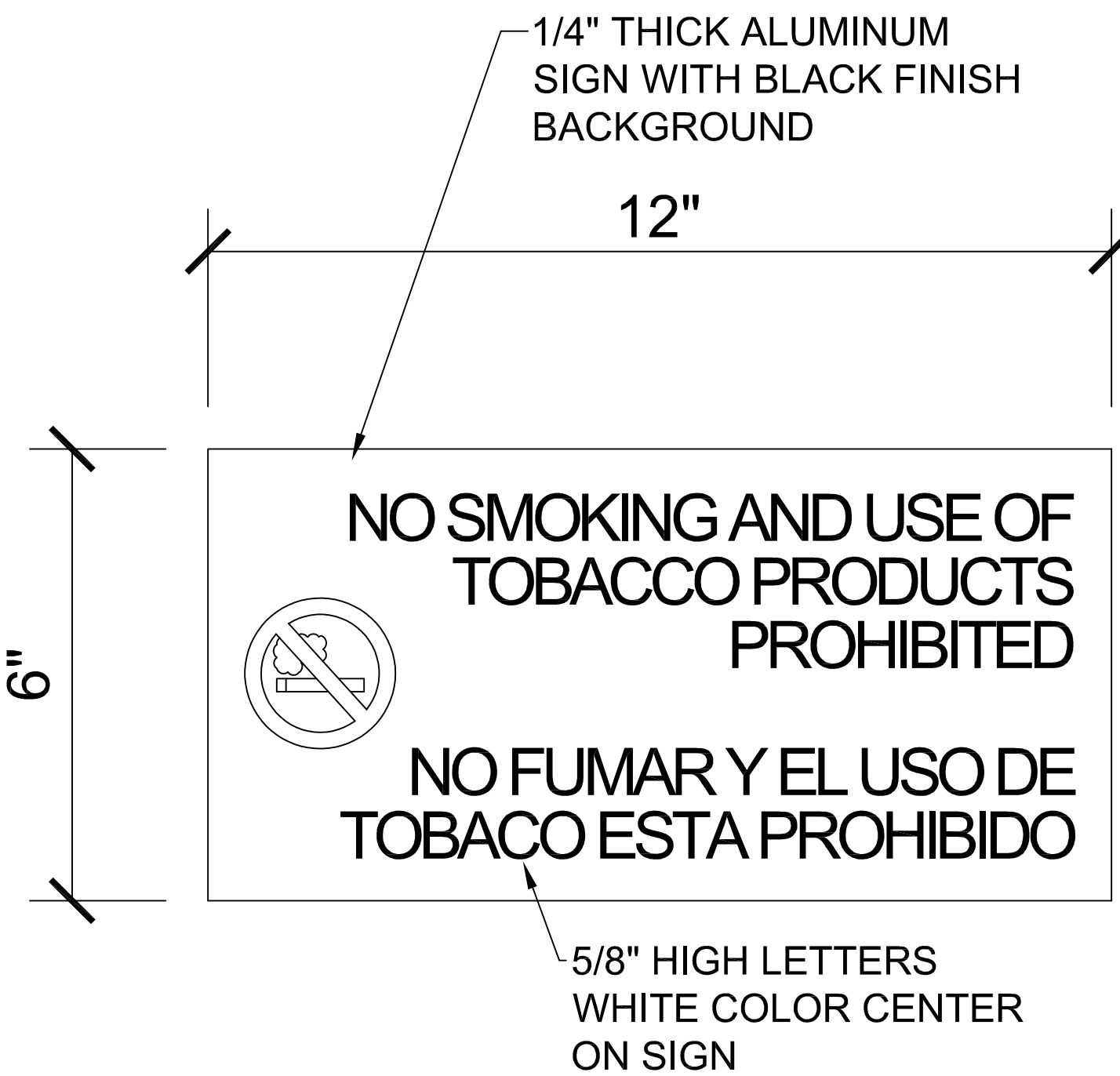
SIGN TYPE 10 & 18 DETAIL

SCALE: 6" = 1'-0" 06



SIGN TYPE 17 DETAIL

SCALE: 6" = 1'-0" 05



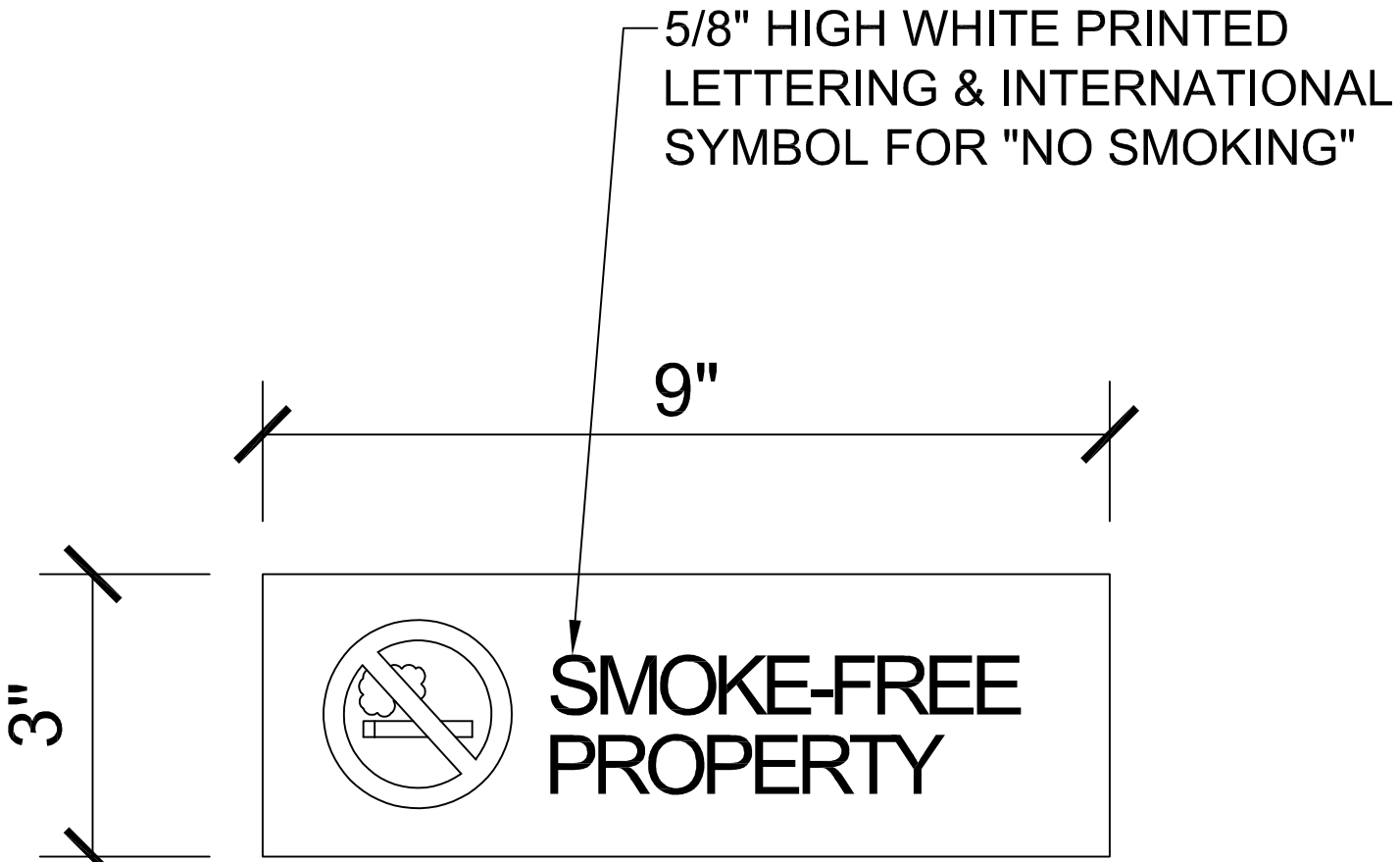
SIGN 8 & 9 DETAIL

SCALE: 6" = 1'-0" 04



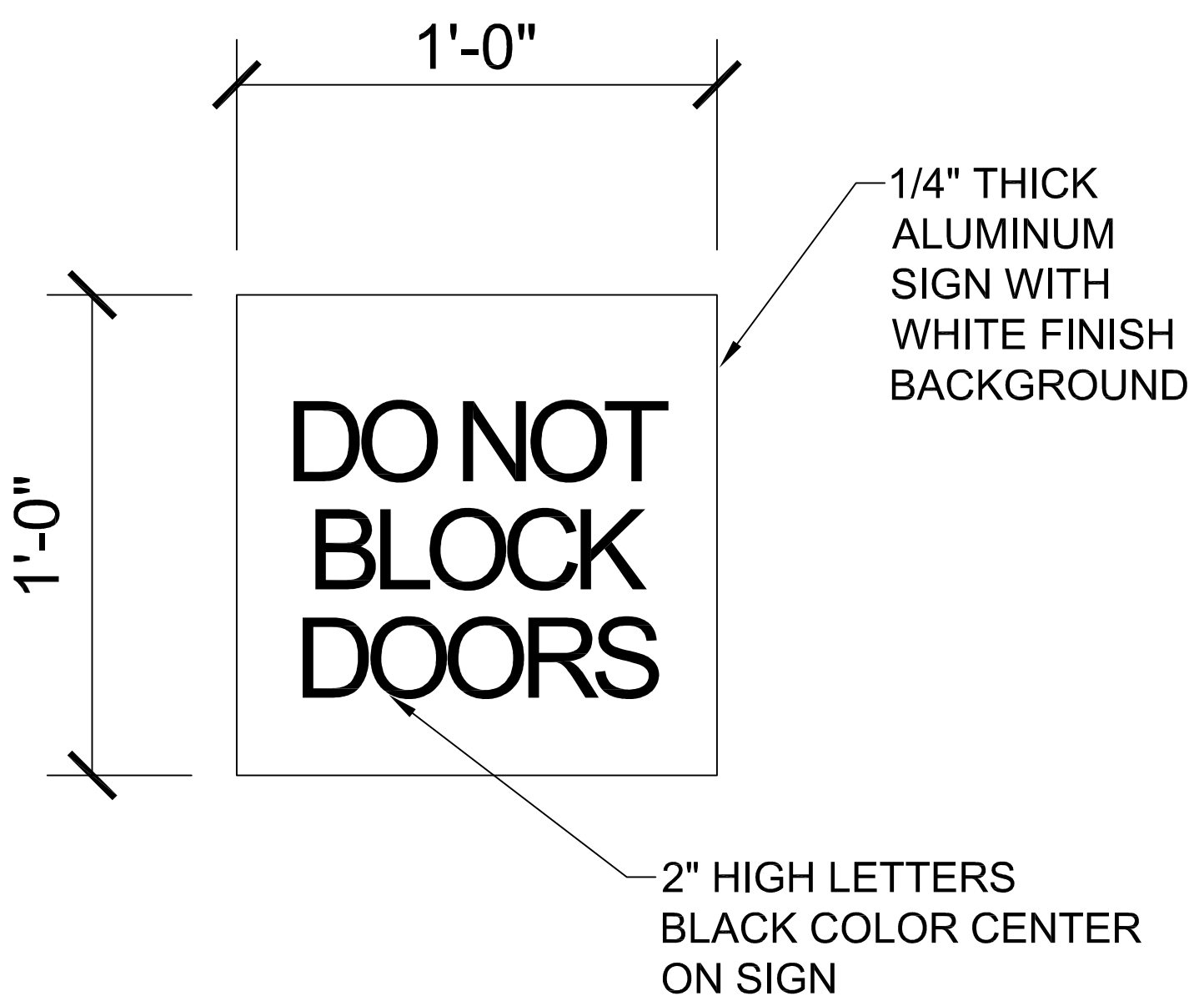
SIGN TYPE 13 DETAIL

SCALE: 3" = 1'-0" 09



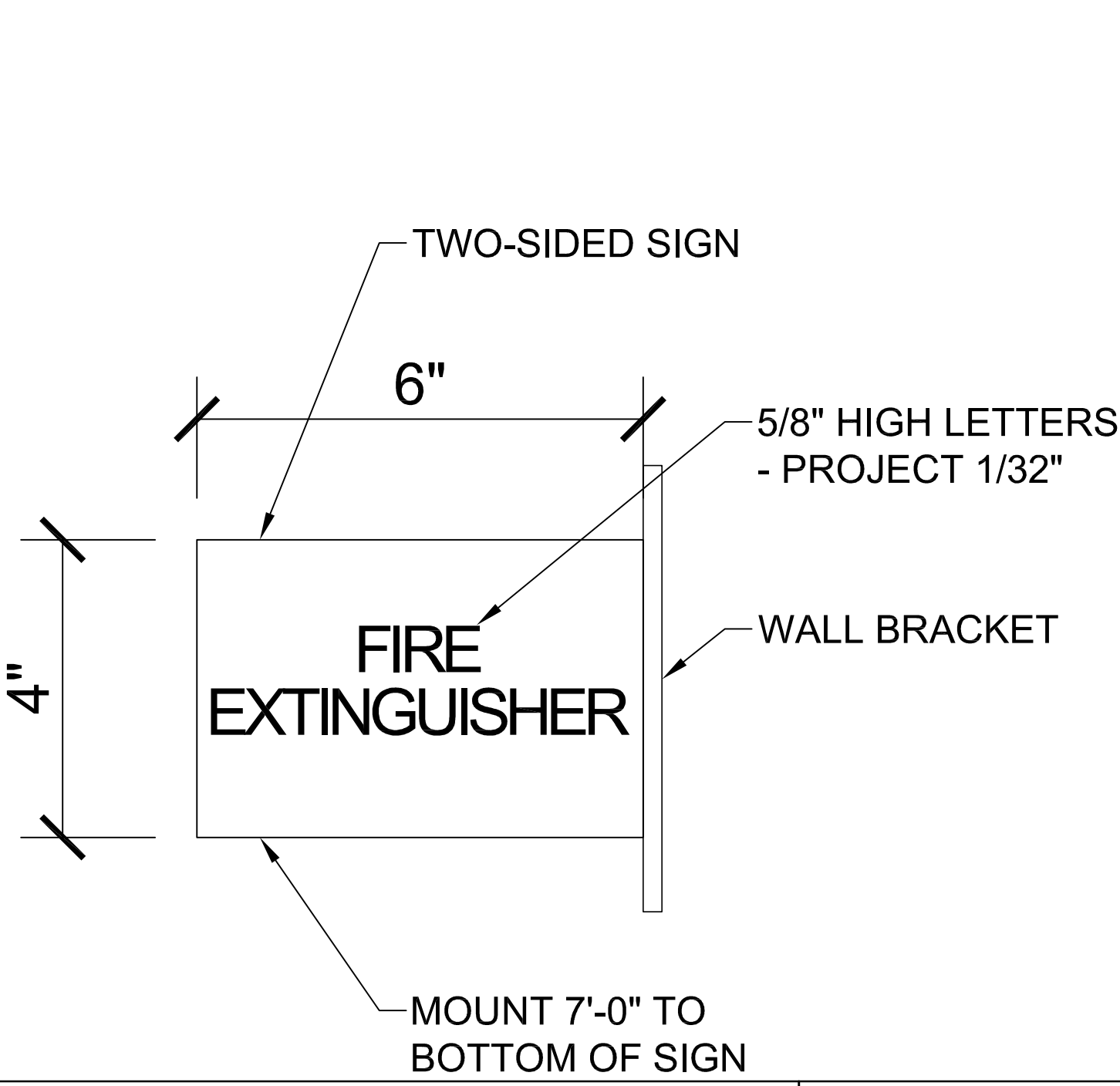
SIGN TYPE 12 DETAIL

SCALE: 3" = 1'-0" 06



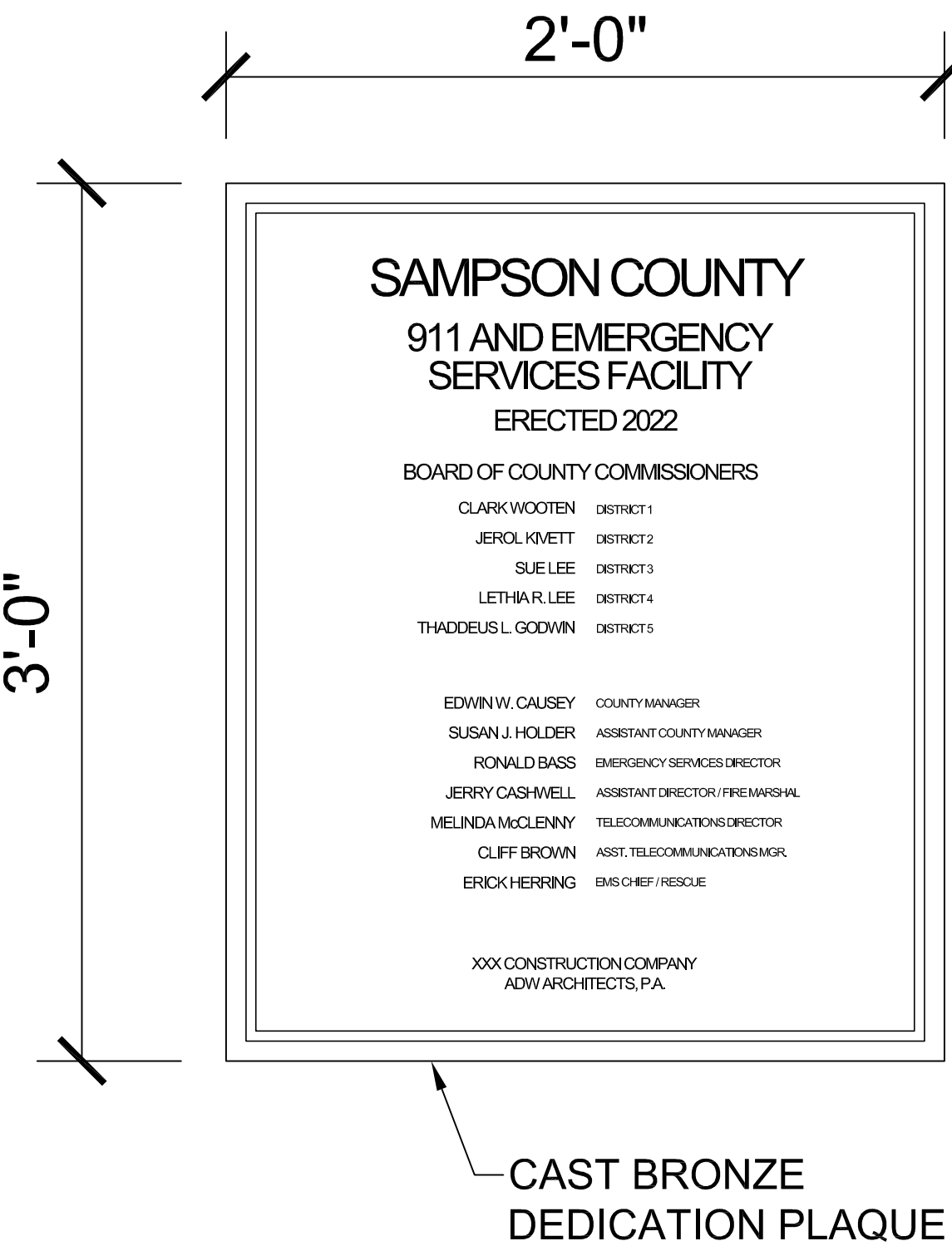
SIGN TYPE 14 DETAIL

SCALE: 3" = 1'-0" 07



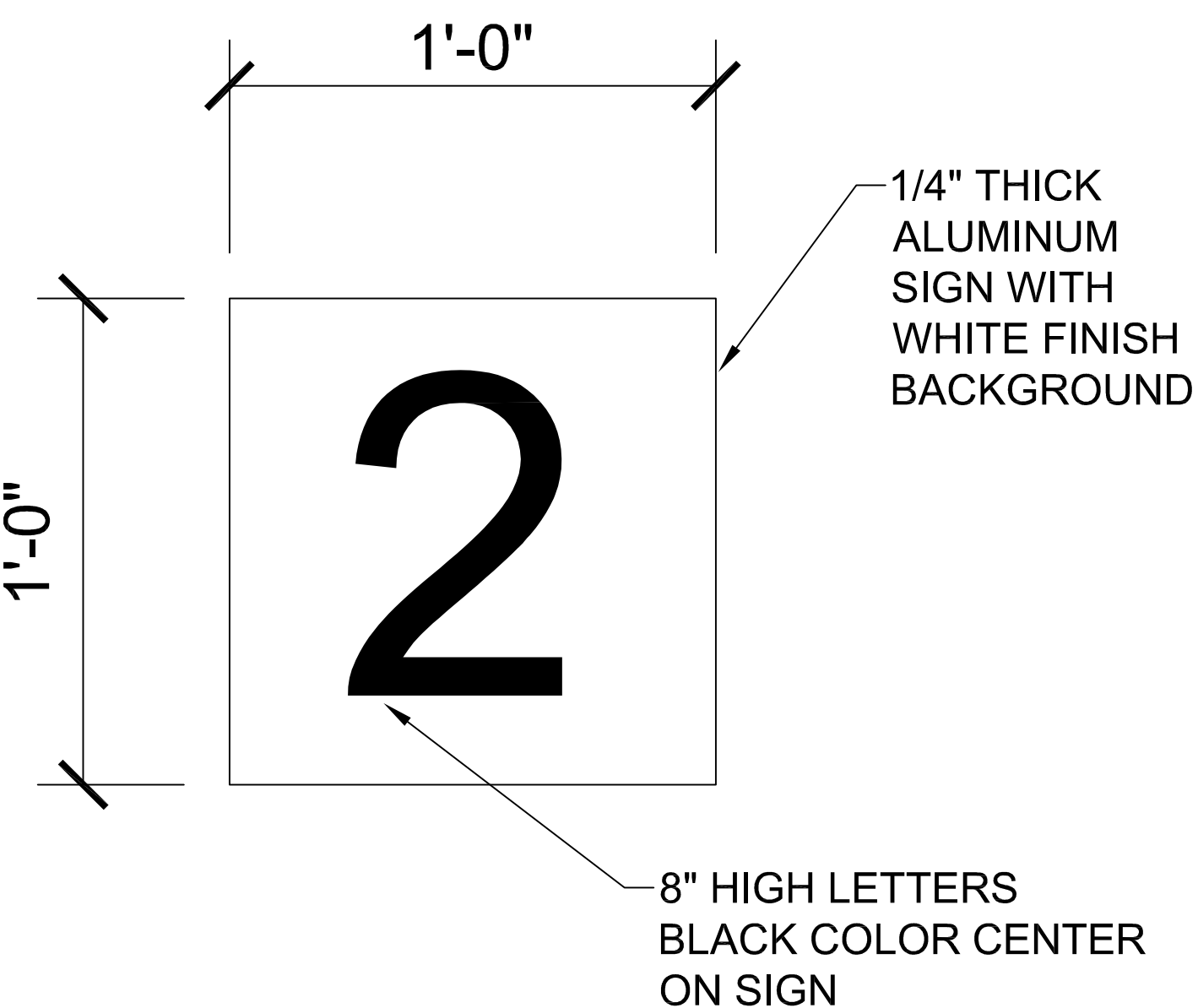
SIGN TYPE 27 DETAIL

SCALE: 1 1/2" = 1'-0" 12



SIGN TYPE 21 DETAIL

SCALE: 1 1/2" = 1'-0" 11



SIGN TYPE 24 DETAIL

SCALE: 3" = 1'-0" 10



SAMPSON COUNTY 911 & ES FACILITIES

CLINTON,
NORTH CAROLINA

CONSTRUCTION
DOCUMENTS

OVERALL REFLECTED
CEILING PLAN

DATE 12.04.2020
PROJECT NO 20003

REVISIONS		
NUM.	DATE	DESCRIPTION:
REV1	12/17/20	REVISION 01
REV2	01/09/21	REV2/ADD1

REV 2 GENERAL COORDINATION

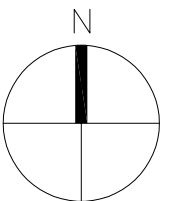
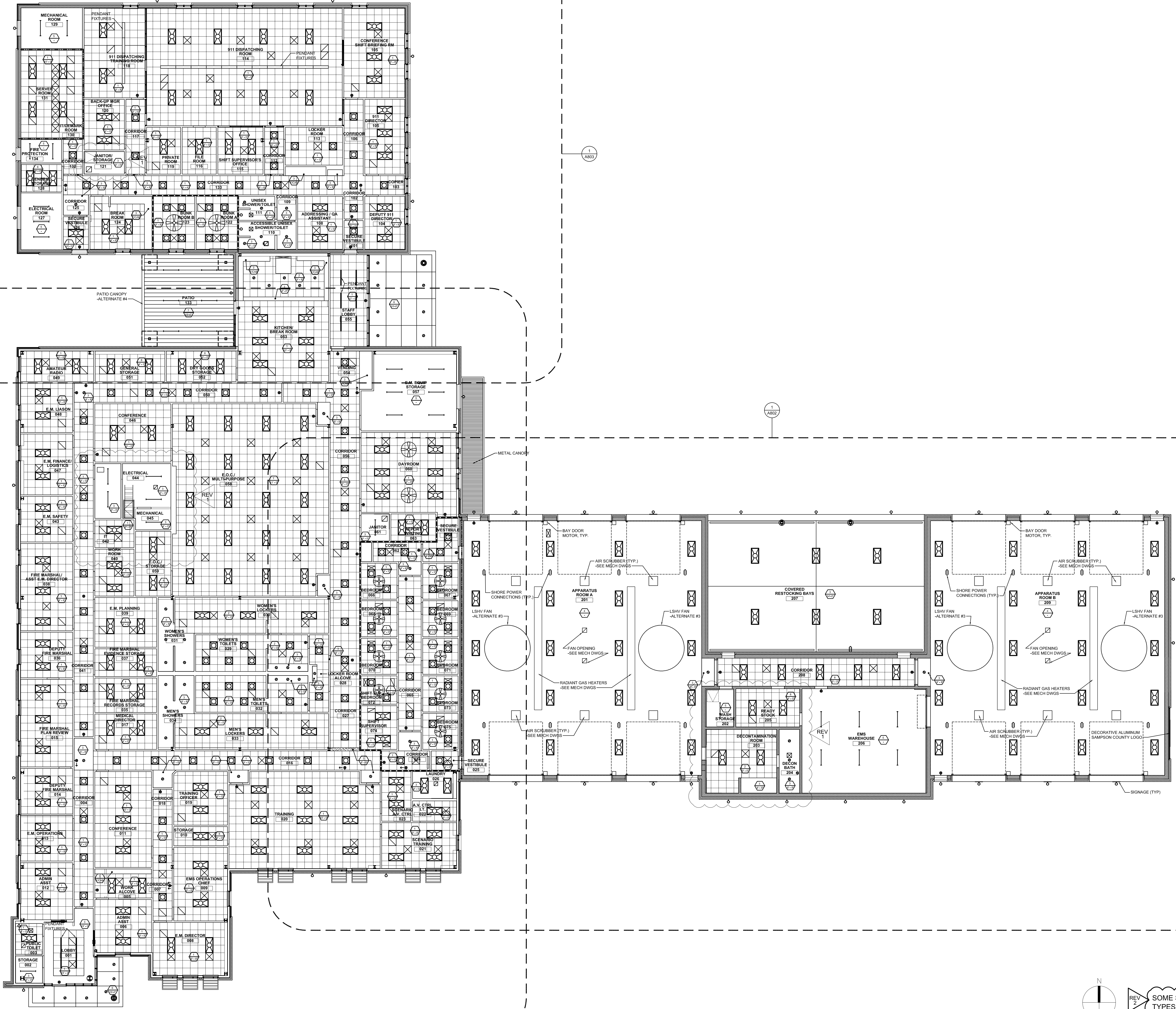
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SEAL

SHEET NUMBER

A800



REV 2 SOME STORAGE ROOM CEILING TYPES CHANGED

REV GENERAL NOTE COORDINATION

OVERALL REFLECTED CEILING PLAN SCALE: 3/32" = 1'-0"

1



SAMPSON COUNTY
911 & ES
FACILITIES

CLINTON,
NORTH CAROLINA

CONSTRUCTION
DOCUMENTS

EMS WING RCP

DATE	12.04.2020	
PROJECT NO	20003	
REVISIONS		
NUM.	DATE	DESCRIPTION:
REV1	12/17/20	REVISION 01
REV2	01/09/21	REV2/ADD1

GENERAL COORDINATION

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SYMBOL LEGEND

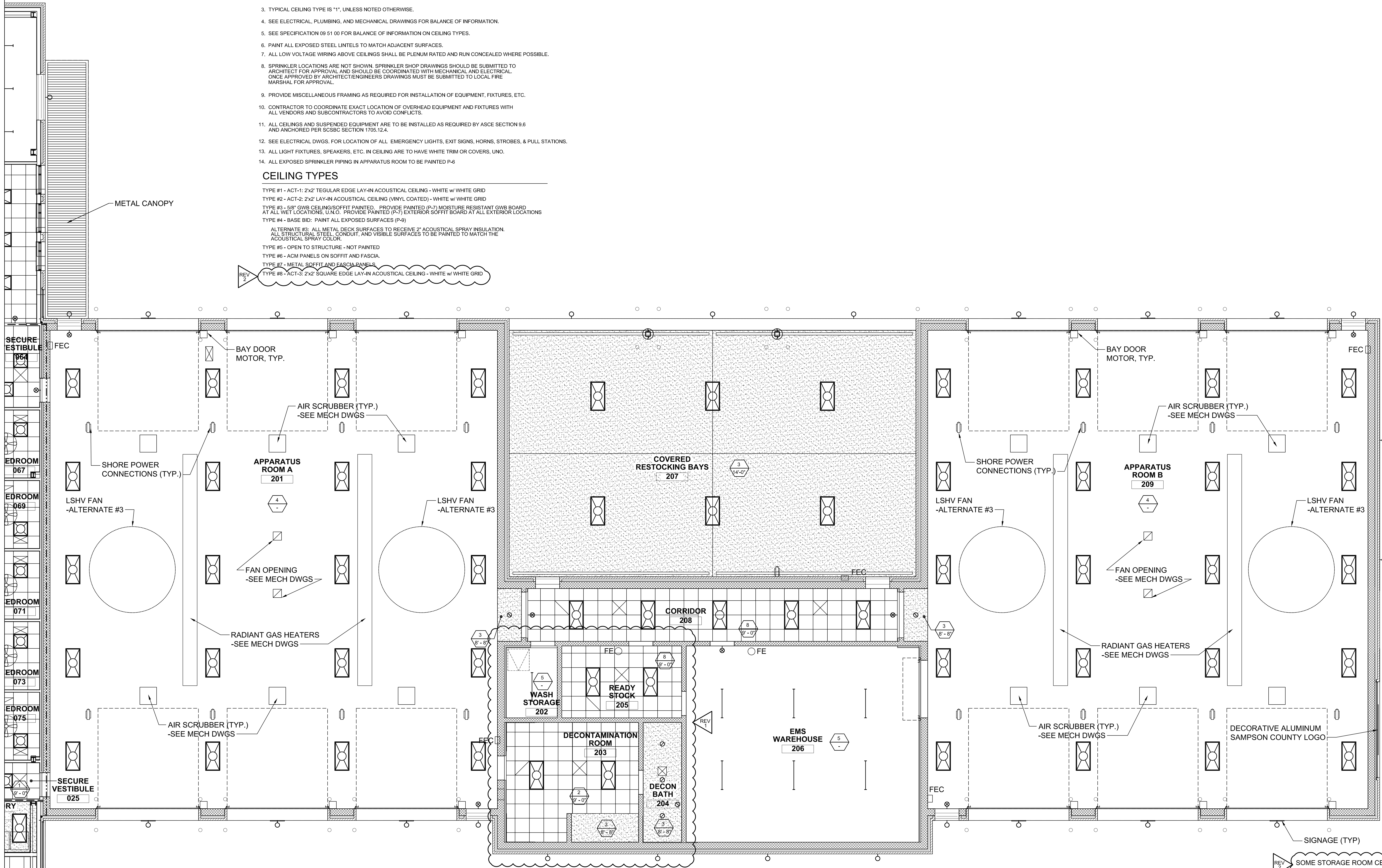
	2' X 4' LED LIGHTING FIXTURE		CEILING FAN
	LED STRIP FIXTURE		SUPPLY AIR CEILING DIFFUSER
	2' X 2' LED LIGHTING FIXTURE		EXHAUST OR RETURN GRILLE
	RECESSED LED LIGHTING FIXTURE		EXHAUST FAN
	WALL MOUNTED LED LIGHTING FIXTURE		A.F.F. ABOVE FINISHED FLOOR
	WALL MOUNTED SPECIAL LIGHTING FIXTURE		CEILING TYPE
	LED STRIP CANOPY FIXTURE		CEILING ELEVATION

GENERAL NOTES

1. ALL CEILING HEIGHTS ARE GIVEN RELATIVE TO FINISH FLOOR IN THAT ROOM UNLESS OTHERWISE NOTED
2. TYPICAL CEILING HEIGHT IS 9'-0" UNLESS NOTED OTHERWISE.
3. TYPICAL CEILING TYPE IS "1", UNLESS NOTED OTHERWISE.
4. SEE ELECTRICAL, PLUMBING, AND MECHANICAL DRAWINGS FOR BALANCE OF INFORMATION.
5. SEE SPECIFICATION 09 51 00 FOR BALANCE OF INFORMATION ON CEILING TYPES.
6. PAINT ALL EXPOSED STEEL LINTELS TO MATCH ADJACENT SURFACES.
7. ALL LOW VOLTAGE WIRING ABOVE CEILINGS SHALL BE PLENUM RATED AND RUN CONCEALED WHERE POSSIBLE.
8. SPRINKLER LOCATIONS ARE NOT SHOWN. SPRINKLER SHOP DRAWINGS SHOULD BE SUBMITTED TO ARCHITECT FOR APPROVAL AND SHOULD BE COORDINATED WITH MECHANICAL AND ELECTRICAL. ONCE APPROVED BY ARCHITECT/ENGINEERS DRAWINGS MUST BE SUBMITTED TO LOCAL FIRE MARSHAL FOR APPROVAL.
9. PROVIDE MISCELLANEOUS FRAMING AS REQUIRED FOR INSTALLATION OF EQUIPMENT, FIXTURES, ETC.
10. CONTRACTOR TO COORDINATE EXACT LOCATION OF OVERHEAD EQUIPMENT AND FIXTURES WITH ALL VENDORS AND SUBCONTRACTORS TO AVOID CONFLICTS.
11. ALL CEILINGS AND SUSPENDED EQUIPMENT ARE TO BE INSTALLED AS REQUIRED BY ASCE SECTION 9.6 AND ANCHORED PER SCSSBC SECTION 1705.12.4.
12. SEE ELECTRICAL DWGS. FOR LOCATION OF ALL EMERGENCY LIGHTS, EXIT SIGNS, HORNS, STROBES, & PULL STATIONS.
13. ALL LIGHT FIXTURES, SPEAKERS, ETC. IN CEILING ARE TO HAVE WHITE TRIM OR COVERS, UNO.
14. ALL EXPOSED SPRINKLER PIPING IN APPARATUS ROOM TO BE PAINTED P-6

CEILING TYPES

TYPE #1 - ACT-1: 2'X2' TEGULAR EDGE LAY-IN ACOUSTICAL CEILING - WHITE w/ WHITE GRID
TYPE #2 - ACT-2: 2'X2' LAY-IN ACOUSTICAL CEILING (VINYL COATED) - WHITE w/ WHITE GRID
TYPE #3 - 5/8" GWB CEILING/SOFFIT PAINTED. PROVIDE PAINTED (P-7) MOISTURE RESISTANT GWB BOARD AT ALL WET LOCATIONS, U.N.O. PROVIDE PAINTED (P-7) EXTERIOR SOFFIT BOARD AT ALL EXTERIOR LOCATIONS
TYPE #4 - BASE BID: PAINT ALL EXPOSED SURFACES (P-6)
ALTERNATE #3: ALL METAL DECK SURFACES TO RECEIVE 2" ACOUSTICAL SPRAY INSULATION. ALL STRUCTURAL STEEL, CONDUIT, AND VISIBLE SURFACES TO BE PAINTED TO MATCH THE ACOUSTICAL SPRAY COLOR.
TYPE #5 - OPEN TO STRUCTURE - NOT PAINTED
TYPE #6 - ACM PANELS ON SOFFIT AND FASCIA.
TYPE #7 - METAL SOFFIT AND FASCIA PANELS.
TYPE #8 - ACT-3: 2'X2' SQUARE EDGE LAY-IN ACOUSTICAL CEILING - WHITE w/ WHITE GRID



SIGNAGE (TYP)

SOME STORAGE ROOM CEILING TYPES CHANGED

GENERAL NOTE COORDINATION

EMS WING RCP

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

1



SAMPSON COUNTY 911 & ES FACILITIES

CLINTON,
NORTH CAROLINA

CONSTRUCTION
DOCUMENTS

911 BUILDING RCP

DATE	12.04.2020	
PROJECT NO	20003	
REVISIONS		
NUM.	DATE	DESCRIPTION:
REV1	12/17/20	REVISION 01
REV2	01/09/21	REV2/ADD1

GENERAL COORDINATION

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SEAL

SHEET NUMBER

A803

911 BUILDING RCP SCALE: 3/16" = 1'-0" 1

SYMBOL LEGEND			
	2' X 4' LED LIGHTING FIXTURE		CEILING FAN
	LED STRIP FIXTURE		SUPPLY AIR CEILING DIFFUSER
	2' X 2' LED LIGHTING FIXTURE		EXHAUST OR RETURN GRILLE
	RECESSED LED LIGHTING FIXTURE		EXHAUST FAN
	WALL MOUNTED LED LIGHTING FIXTURE		ABOVE FINISHED FLOOR
	WALL MOUNTED SPECIAL LIGHTING FIXTURE		CEILING TYPE
	LED STRIP CANOPY FIXTURE		CEILING ELEVATION

GENERAL NOTES

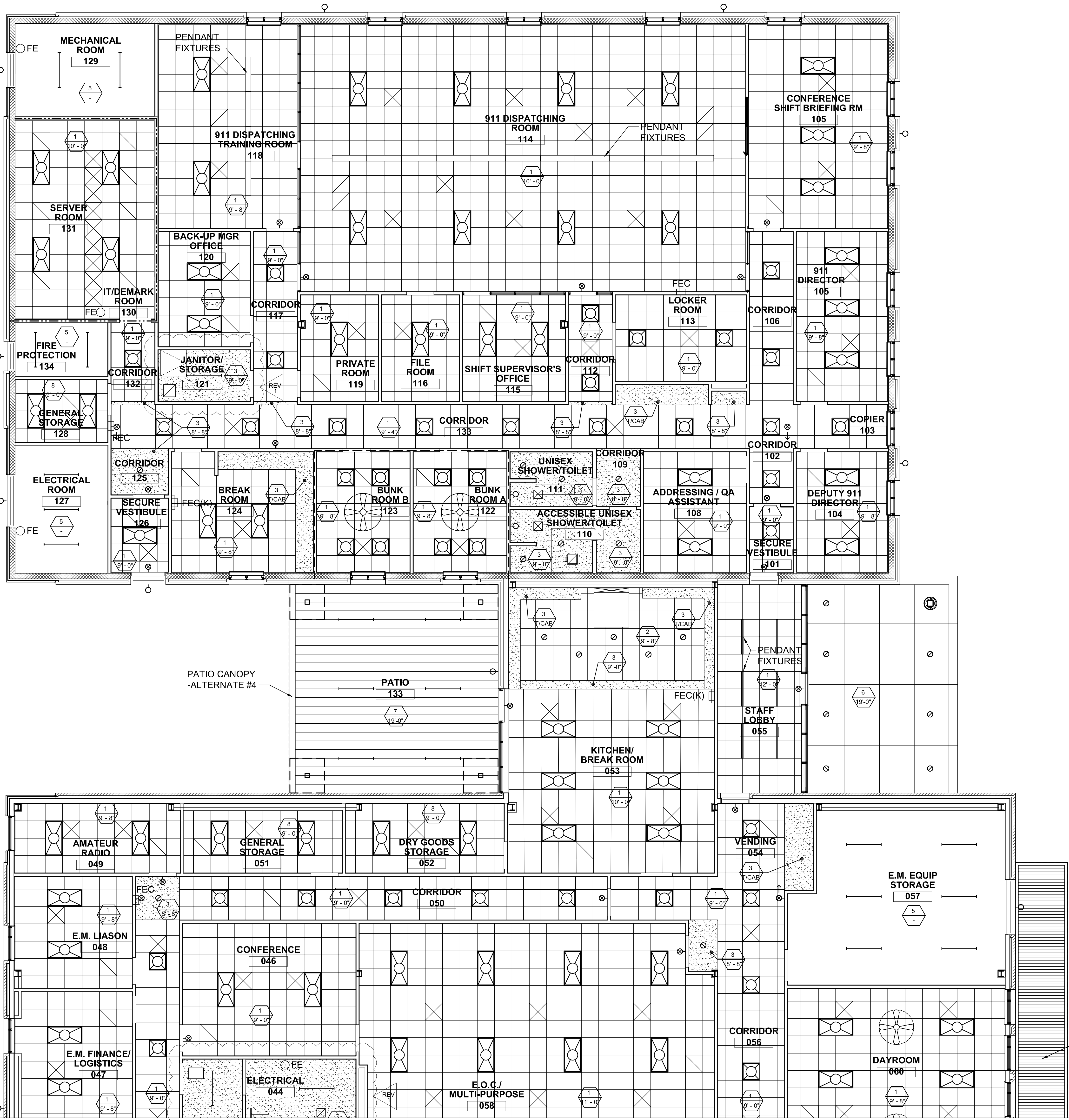
1. ALL CEILING HEIGHTS ARE GIVEN RELATIVE TO FINISH FLOOR IN THAT ROOM UNLESS OTHERWISE NOTED
2. TYPICAL CEILING HEIGHT IS 9'-0" UNLESS NOTED OTHERWISE.
3. TYPICAL CEILING TYPE IS "1", UNLESS NOTED OTHERWISE.
4. SEE ELECTRICAL, PLUMBING, AND MECHANICAL DRAWINGS FOR BALANCE OF INFORMATION.
5. SEE SPECIFICATION 09 51 00 FOR BALANCE OF INFORMATION ON CEILING TYPES.
6. PAINT ALL EXPOSED STEEL LINTELS TO MATCH ADJACENT SURFACES.
7. ALL LOW VOLTAGE WIRING ABOVE CEILINGS SHALL BE PLENUM RATED AND RUN CONCEALED WHERE POSSIBLE.
8. SPRINKLER LOCATIONS ARE NOT SHOWN. SPRINKLER SHOP DRAWINGS SHOULD BE SUBMITTED TO ARCHITECT FOR APPROVAL AND SHOULD BE COORDINATED WITH MECHANICAL AND ELECTRICAL. ONCE APPROVED BY ARCHITECT/ENGINEERS DRAWINGS MUST BE SUBMITTED TO LOCAL FIRE MARSHAL FOR APPROVAL.
9. PROVIDE MISCELLANEOUS FRAMING AS REQUIRED FOR INSTALLATION OF EQUIPMENT, FIXTURES, ETC.
10. CONTRACTOR TO COORDINATE EXACT LOCATION OF OVERHEAD EQUIPMENT AND FIXTURES WITH ALL VENDORS AND SUBCONTRACTORS TO AVOID CONFLICTS.
11. ALL CEILINGS AND SUSPENDED EQUIPMENT ARE TO BE INSTALLED AS REQUIRED BY ASCE SECTION 9.6 AND ANCHORED PER SC900 SECTION 1705.12.4.
12. SEE ELECTRICAL DWGS. FOR LOCATION OF ALL EMERGENCY LIGHTS, EXIT SIGNS, HORNS, STROBES, & PULL STATIONS.
13. ALL LIGHT FIXTURES, SPEAKERS, ETC. IN CEILING ARE TO HAVE WHITE TRIM OR COVERS, UNO.
14. ALL EXPOSED SPRINKLER PIPING IN APPARATUS ROOM TO BE PAINTED P-6

CEILING TYPES

TYPE #1 - ACT-1: 2'x2' REGULAR EDGE LAY-IN ACOUSTICAL CEILING - WHITE w/ WHITE GRID
TYPE #2 - ACT-2: 2'x2' LAY-IN ACOUSTICAL CEILING (VINYL COATED) - WHITE w/ WHITE GRID
TYPE #3 - 5/8" GWS CEILING/SOFFIT PAINTED. PROVIDE PAINTED (P-7) MOISTURE RESISTANT GWS BOARD AT ALL WET LOCATIONS. UNO. PROVIDE PAINTED (P-7) EXTERIOR SOFFIT BOARD AT ALL EXTERIOR LOCATIONS
TYPE #4 - BASE BID: PAINT ALL EXPOSED SURFACES (P-9)
ALTERNATE #3: ALL METAL DECK SURFACES TO RECEIVE 2" ACOUSTICAL SPRAY INSULATION. ALL STRUCTURAL STEEL CONDUIT, AND VISIBLE SURFACES TO BE PAINTED TO MATCH THE ACOUSTICAL SPRAY COLOR.
TYPE #5 - OPEN TO STRUCTURE - NOT PAINTED
TYPE #6 - ACM PANELS ON SOFFIT AND FASCIA.
TYPE #7 - METAL SOFFIT AND FASCIA PANELS.
TYPE #8 - ACT-3: 2'x2' SQUARE EDGE LAY-IN ACOUSTICAL CEILING - WHITE w/ WHITE GRID

REV 1 GENERAL NOTE COORDINATION

REV 2 SOME STORAGE ROOM CEILING TYPES CHANGED





SHEET NUMBER 1700

A900



SAMPSON COUNTY 911 & ES FACILITIES

CLINTON,
NORTH CAROLINA

CONSTRUCTION
DOCUMENTS

CASEWORK ELEVATIONS

DATE	12.04.2020	
PROJECT NO	20003	
REVISIONS		
NUM.	DATE	DESCRIPTION:
REV2	01/09/21	REV2/ADD1

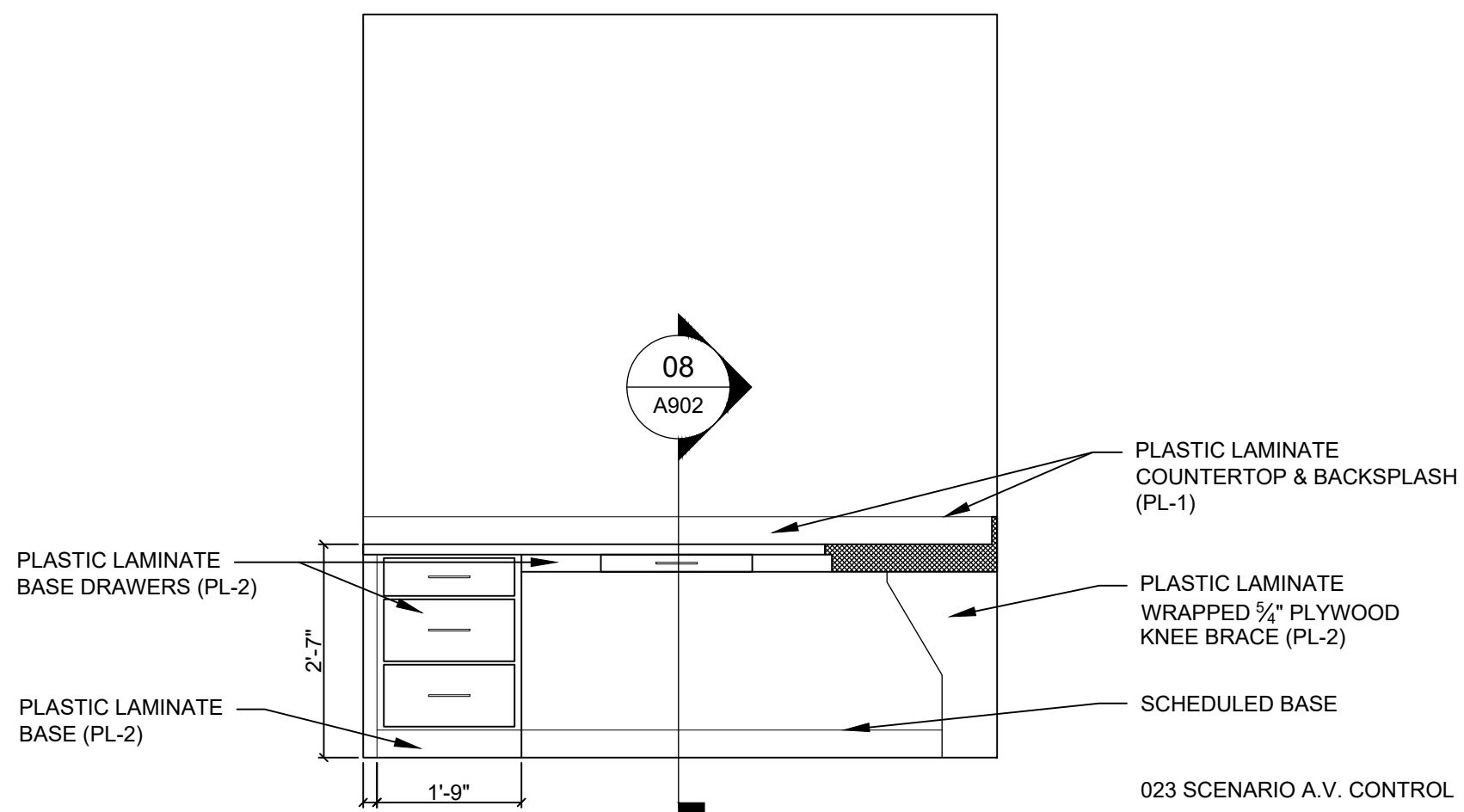


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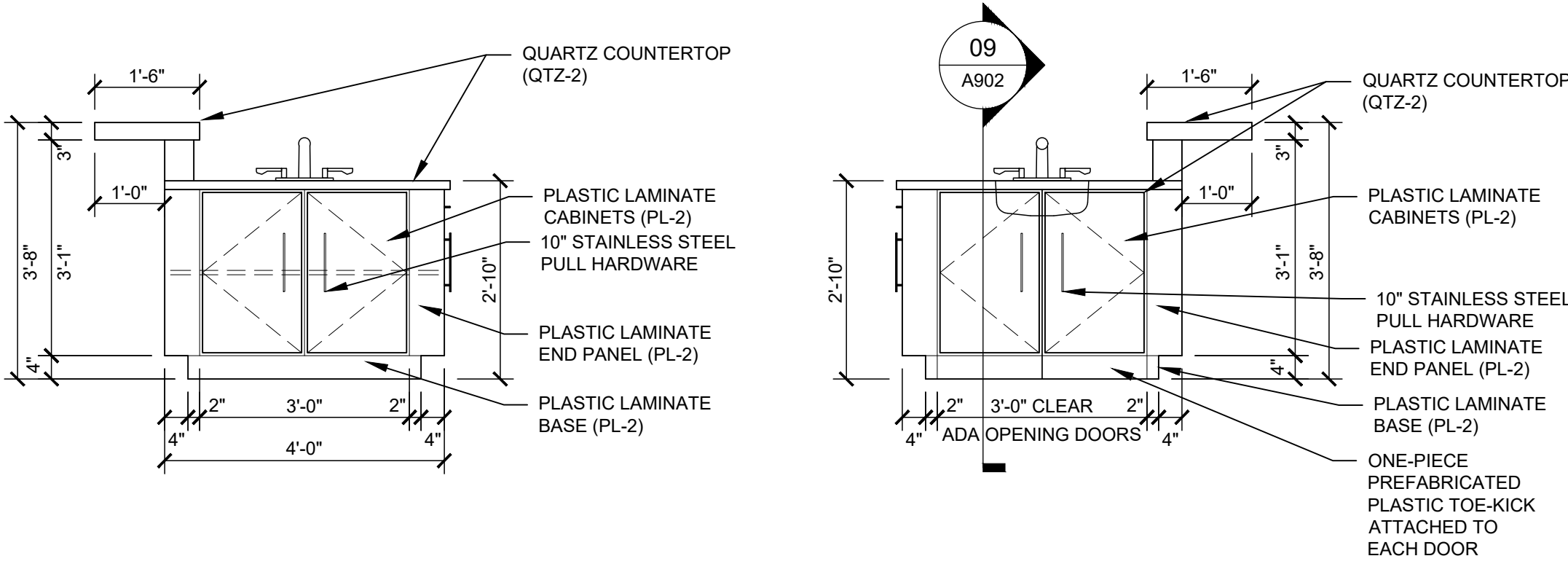
ADW ARCHITECTS, P.A.
CORPORATE SEAL
50223
NORTH CAROLINA
1-9-21
SEAL

SHEET NUMBER

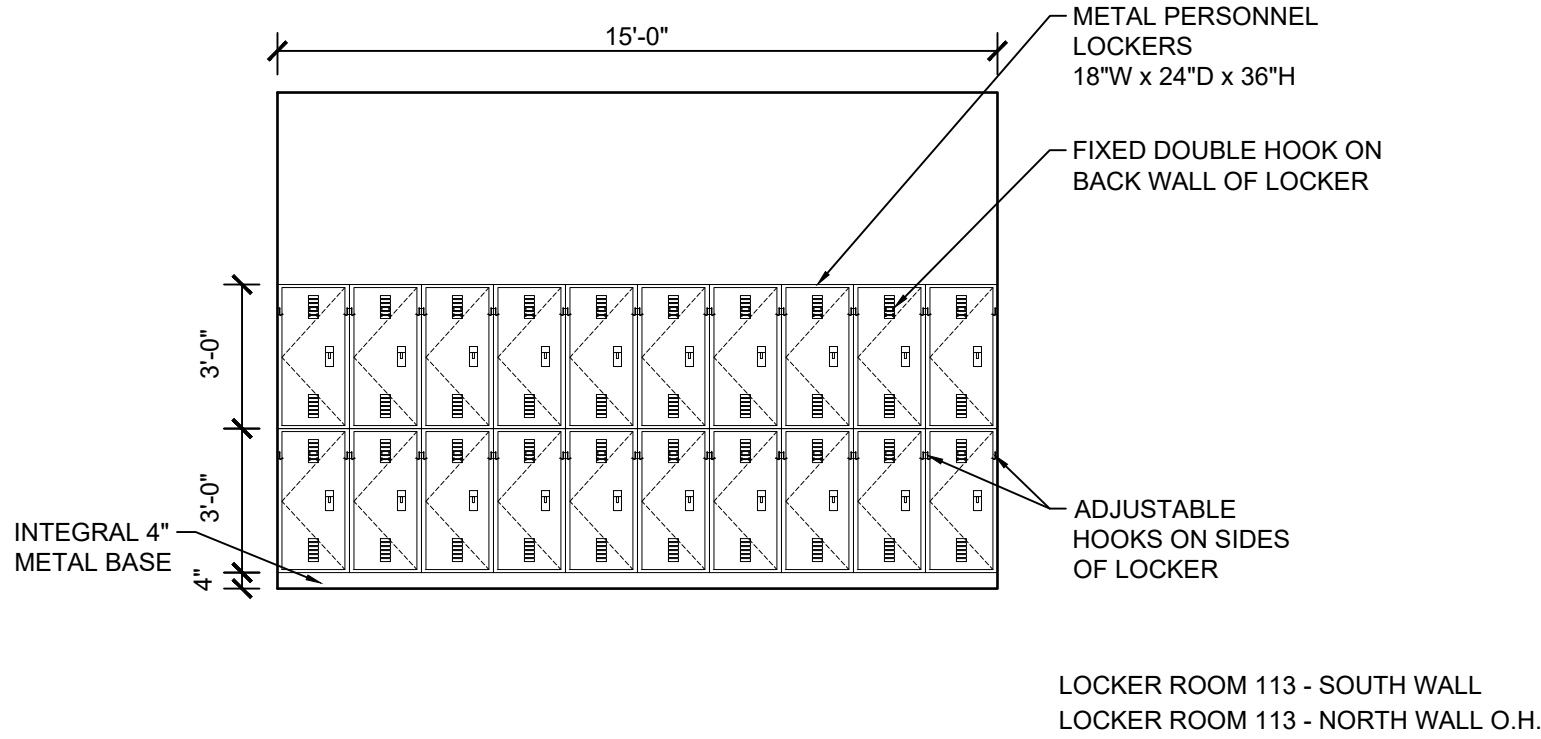
A901



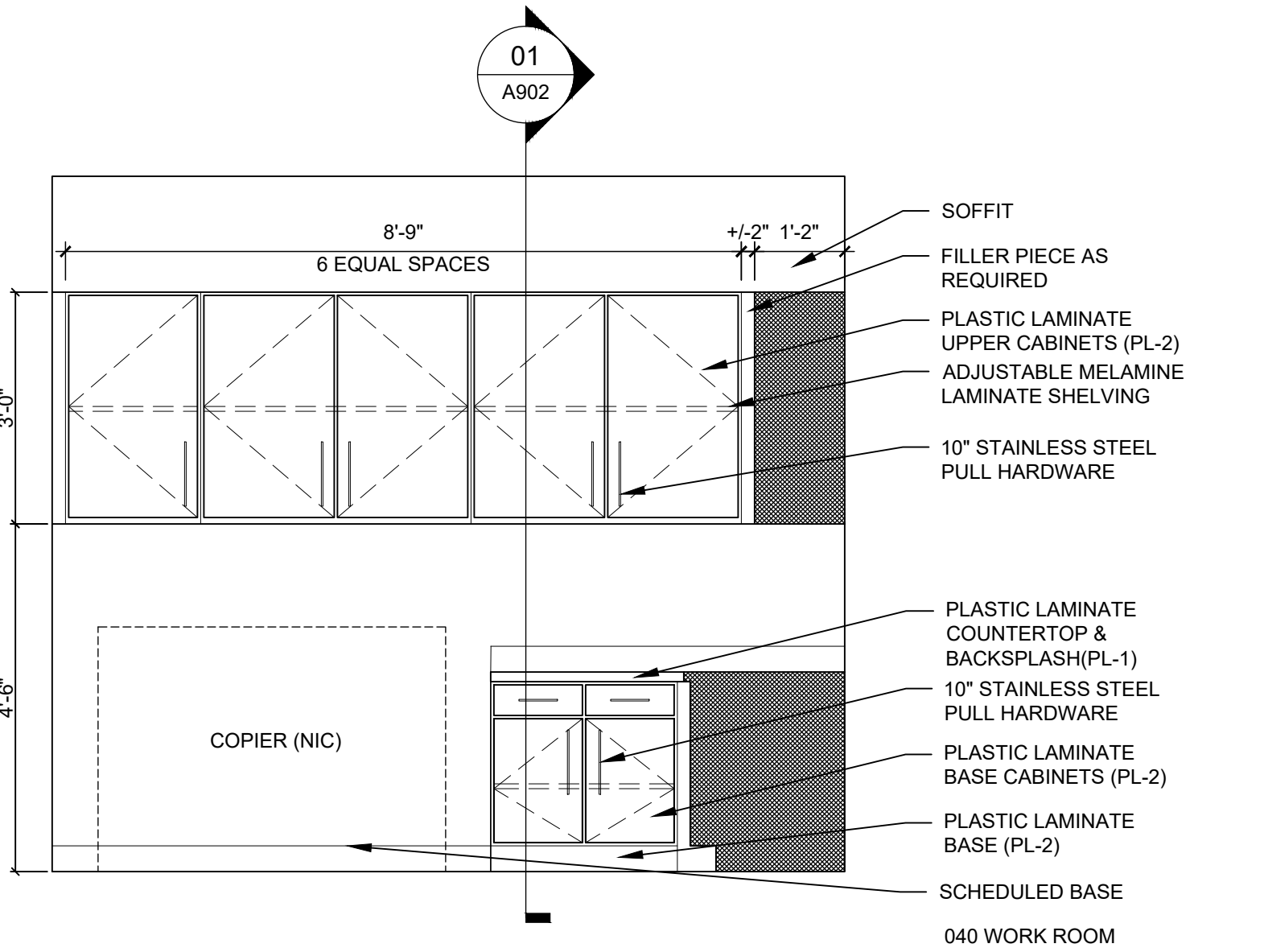
CASEWORK ELEVATION SCALE: 1/2" = 1'-0" 4



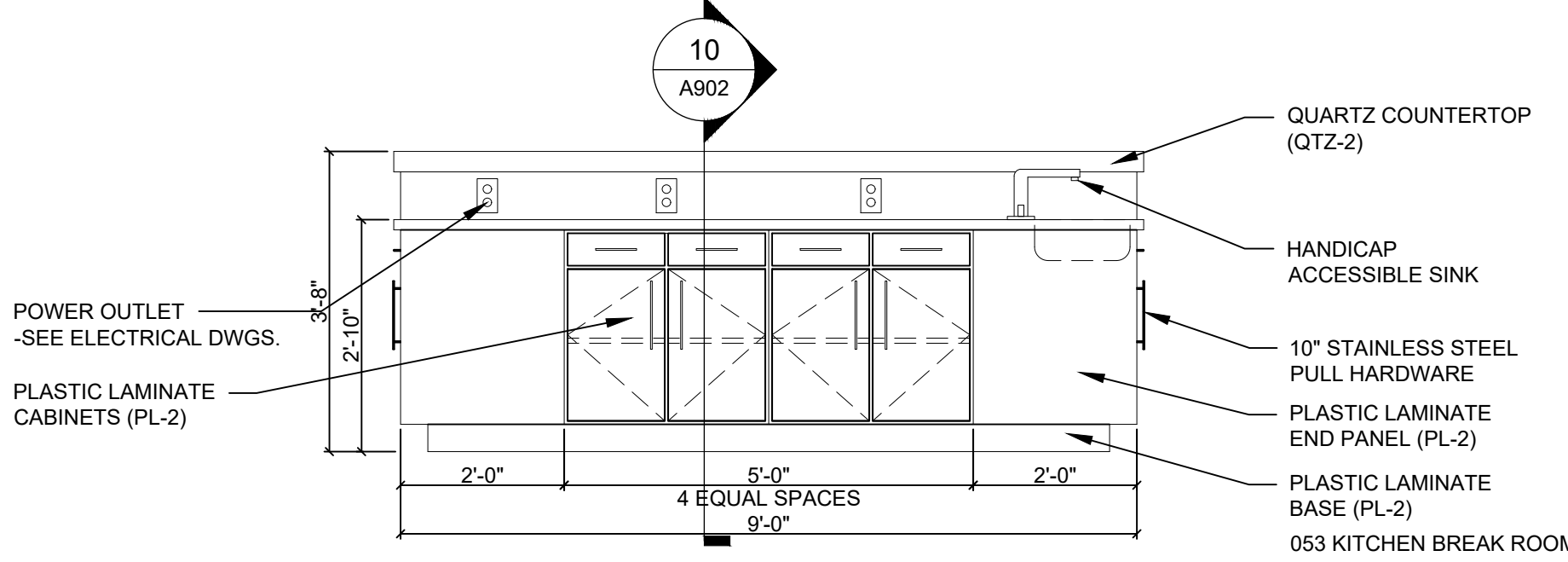
CASEWORK ELEVATION SCALE: 1/2" = 1'-0" 8



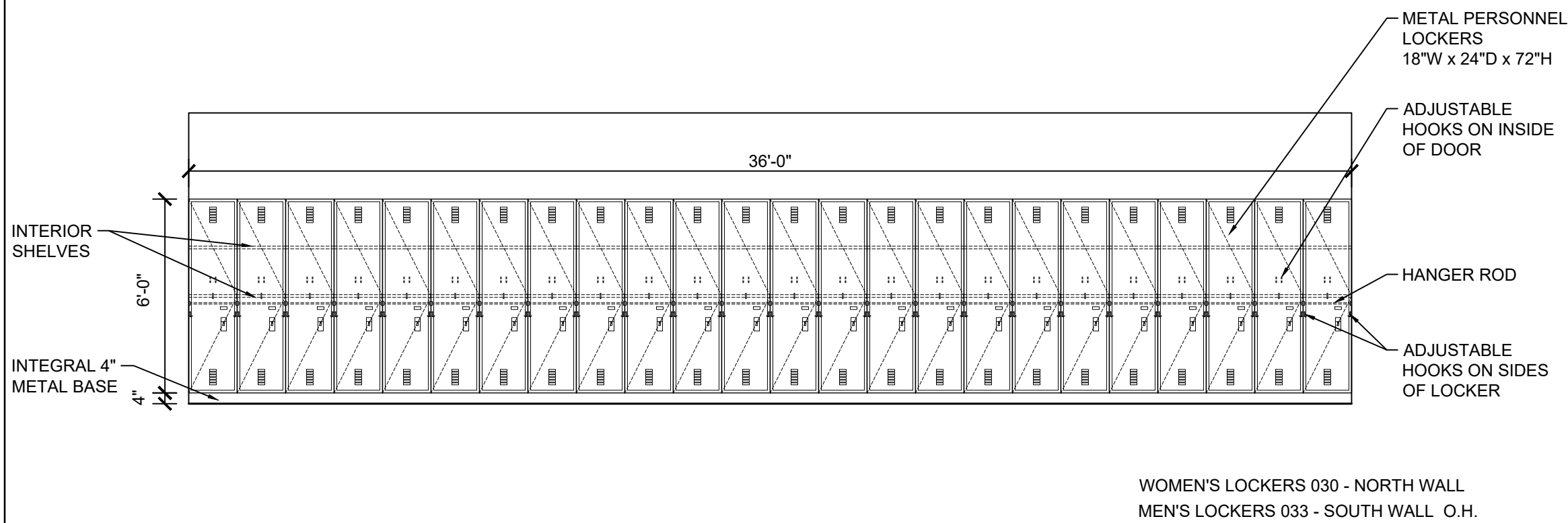
LOCKERS ELEVATION SCALE: 1/4" = 1'-0" 12



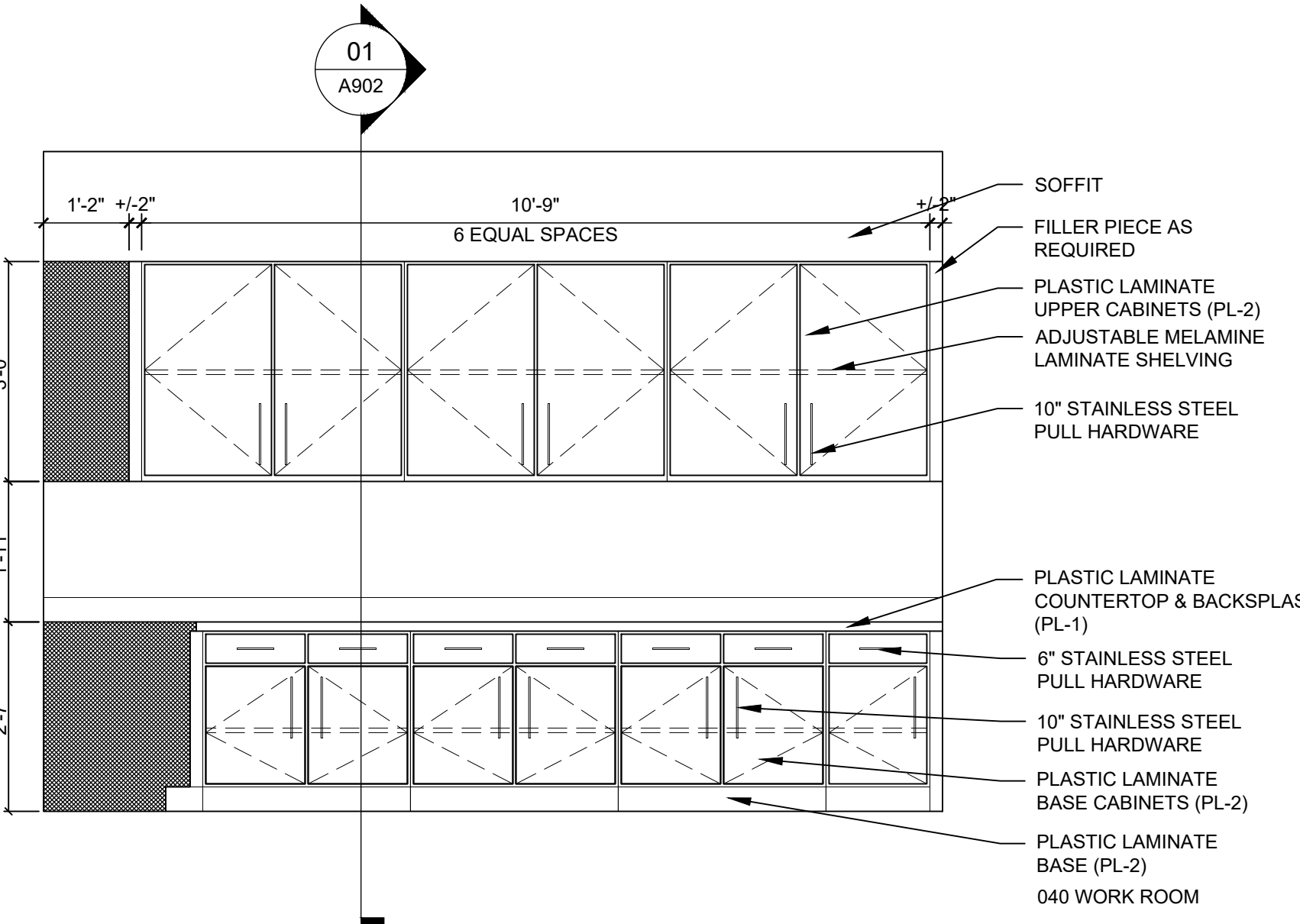
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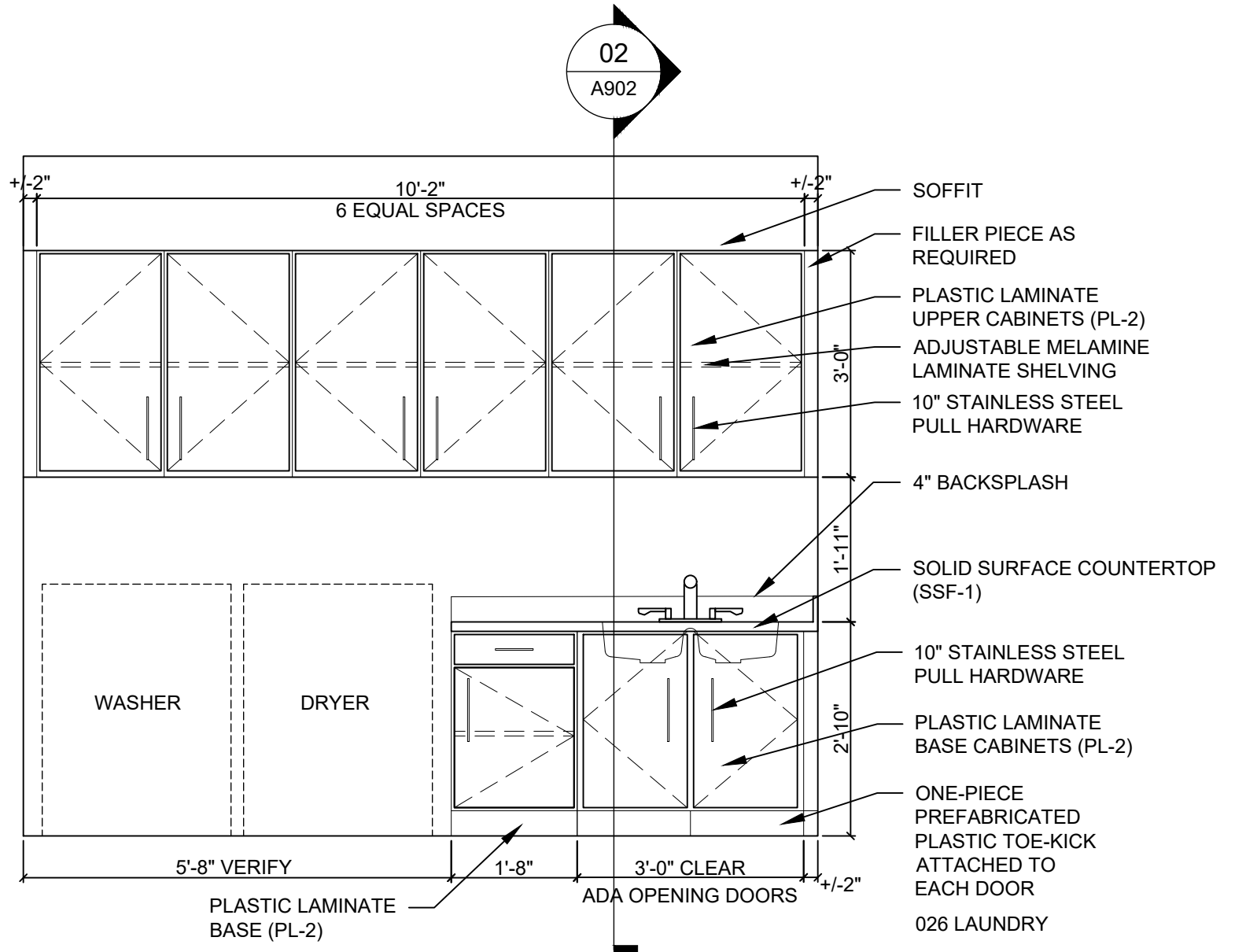
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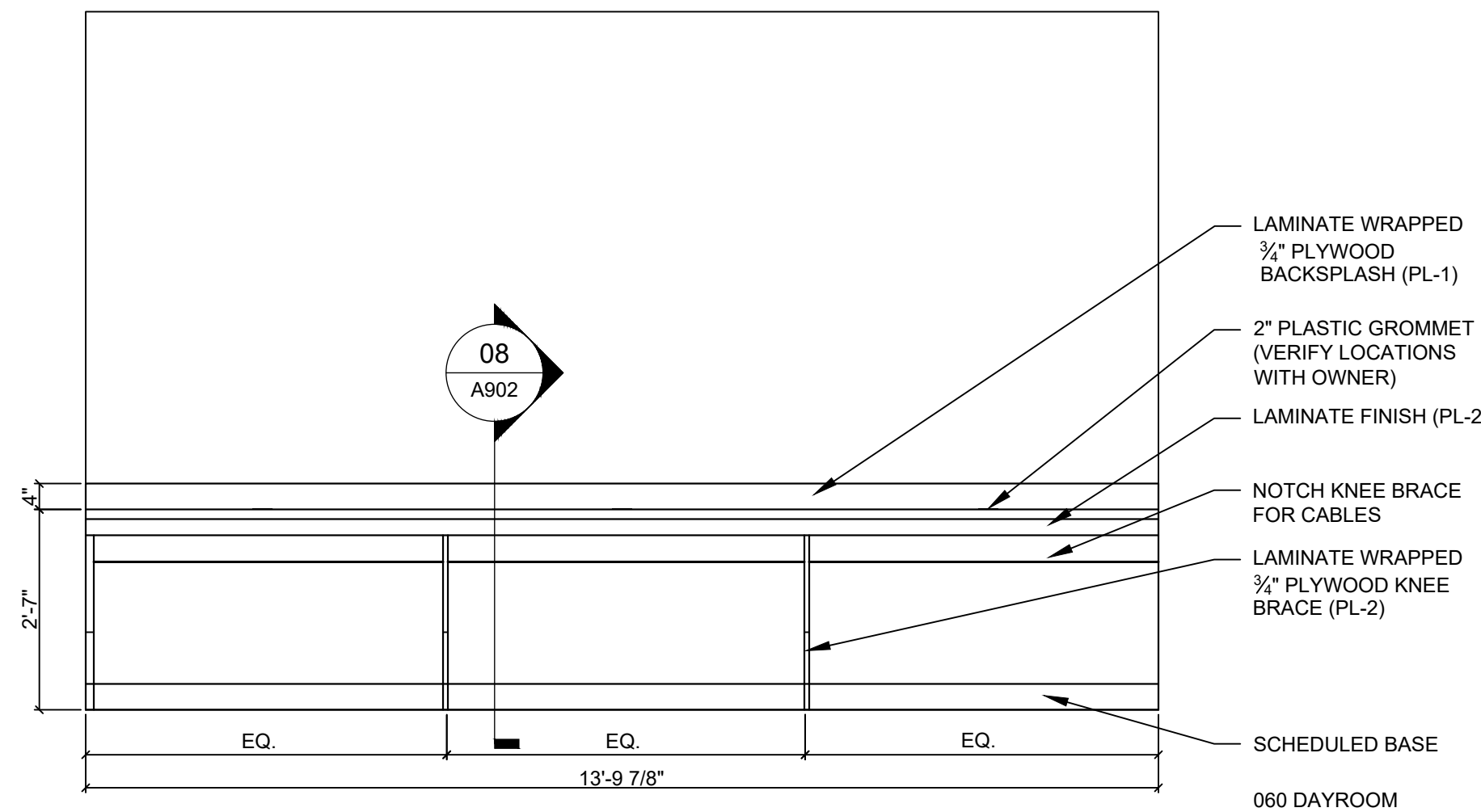
LOCKERS ELEVATION SCALE: 1/4" = 1'-0" 11



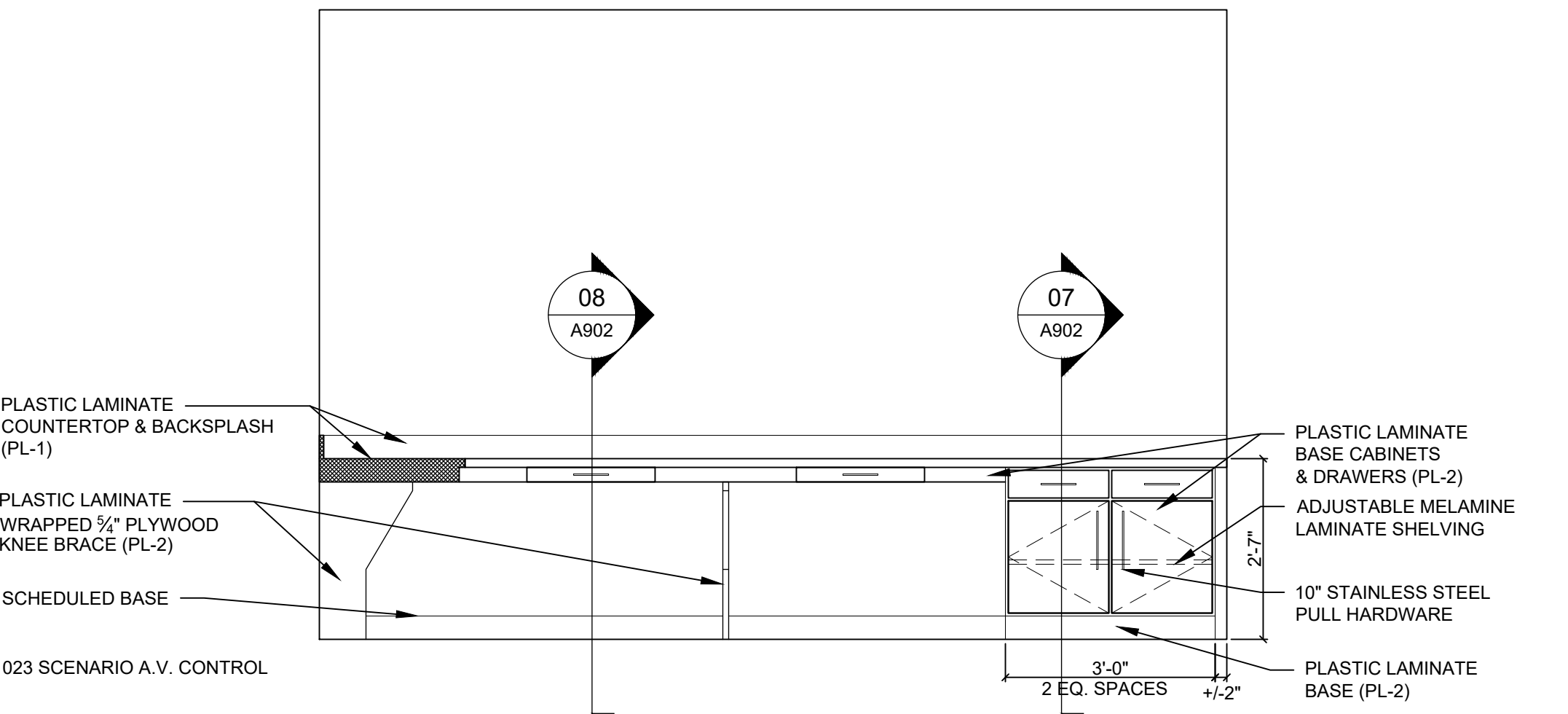
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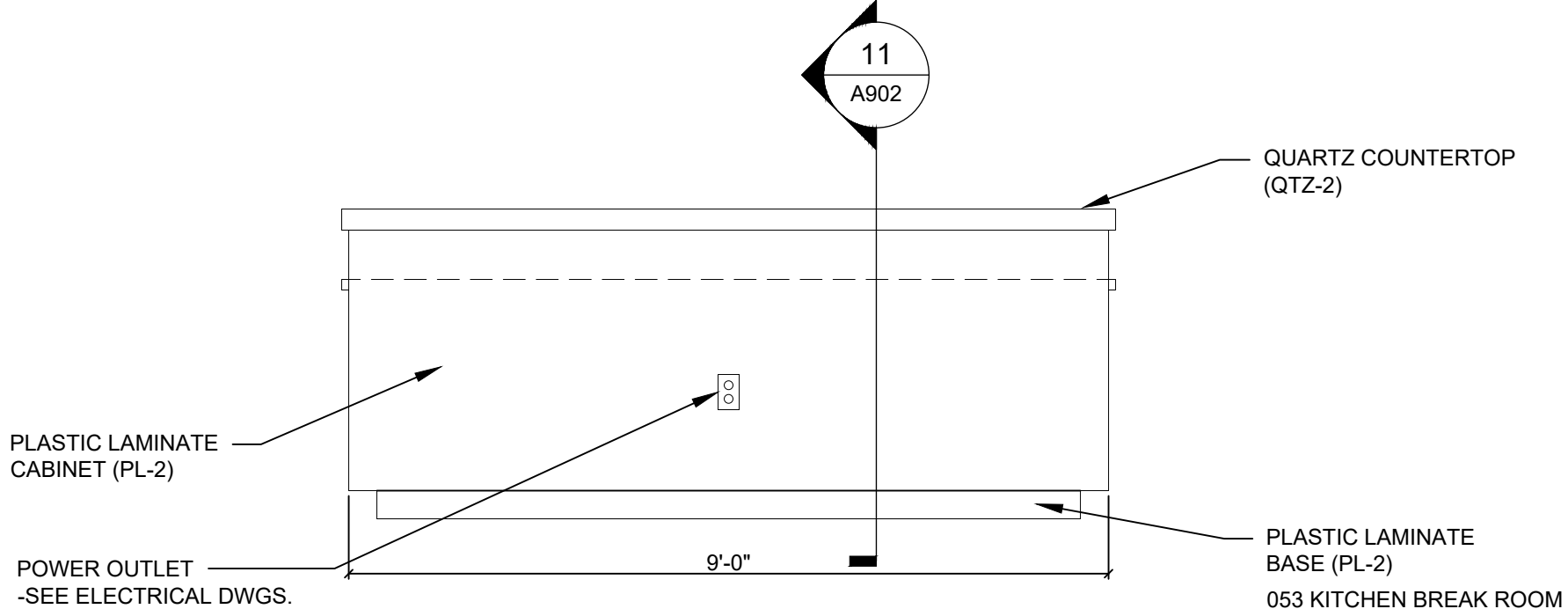
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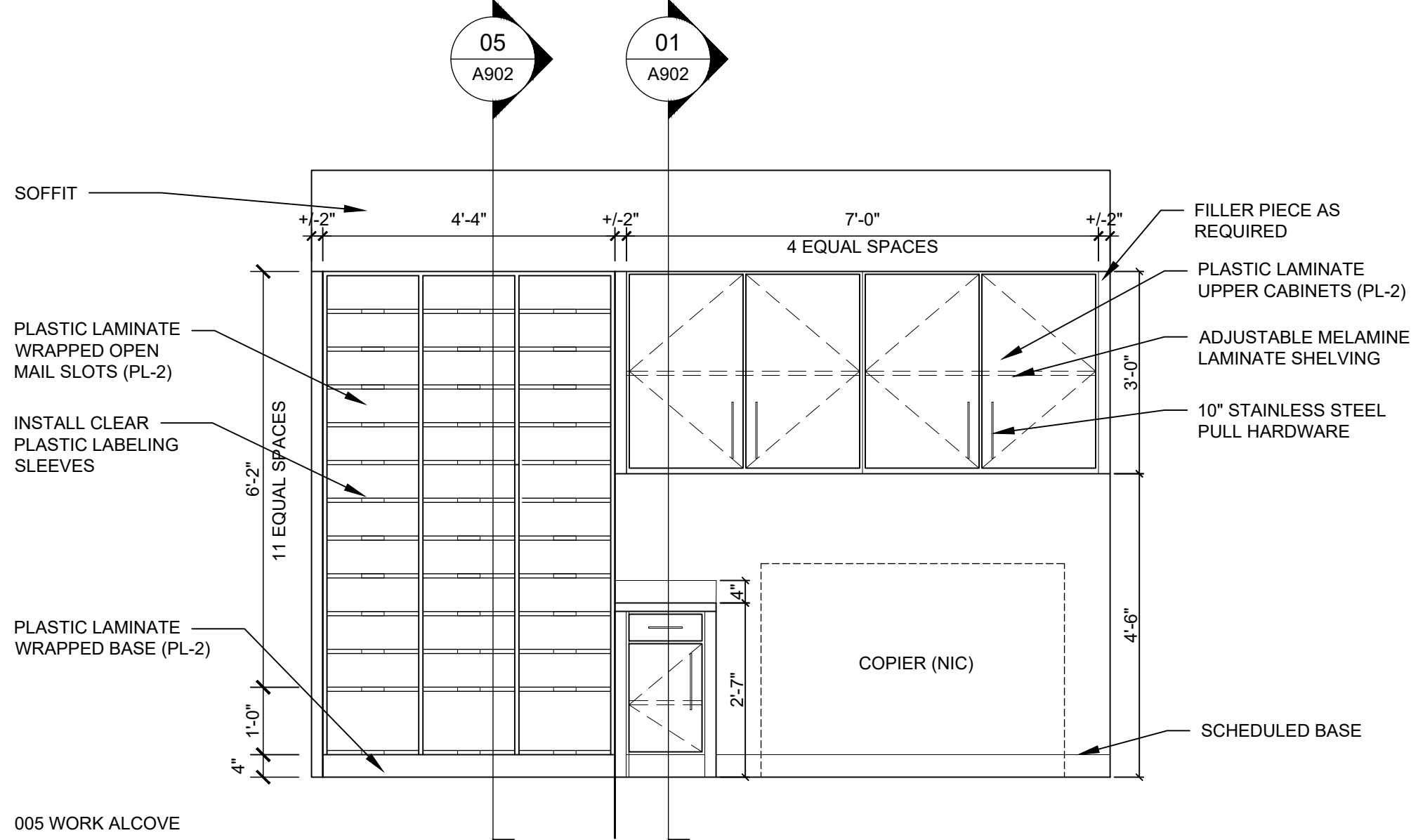
CASEWORK ELEVATION SCALE: 1/2" = 1'-0" 10



CASEWORK ELEVATION SCALE: 1/2" = 1'-0" 5



CASEWORK ELEVATION SCALE: 1/2" = 1'-0" 9



CASEWORK ELEVATION SCALE: 1/2" = 1'-0" 1



SAMPSON COUNTY 911 & ES FACILITIES

CLINTON,
NORTH CAROLINA

CONSTRUCTION
DOCUMENTS

CASEWORK SECTIONS

DATE 12.04.2020
PROJECT NO 20003
REVISIONS
NUM. DATE DESCRIPTION
REV2 01/09/21 REV2/ADD1

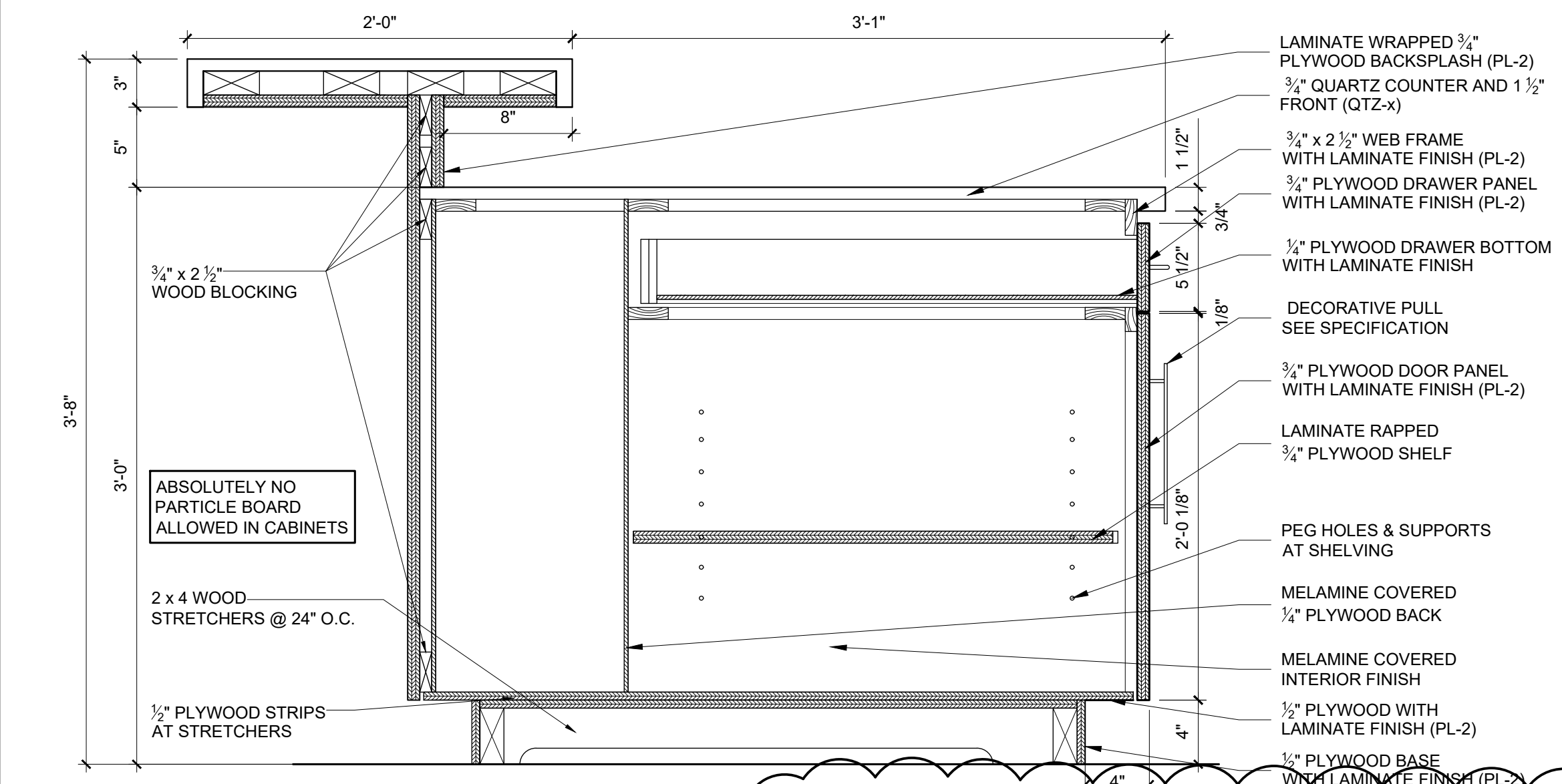
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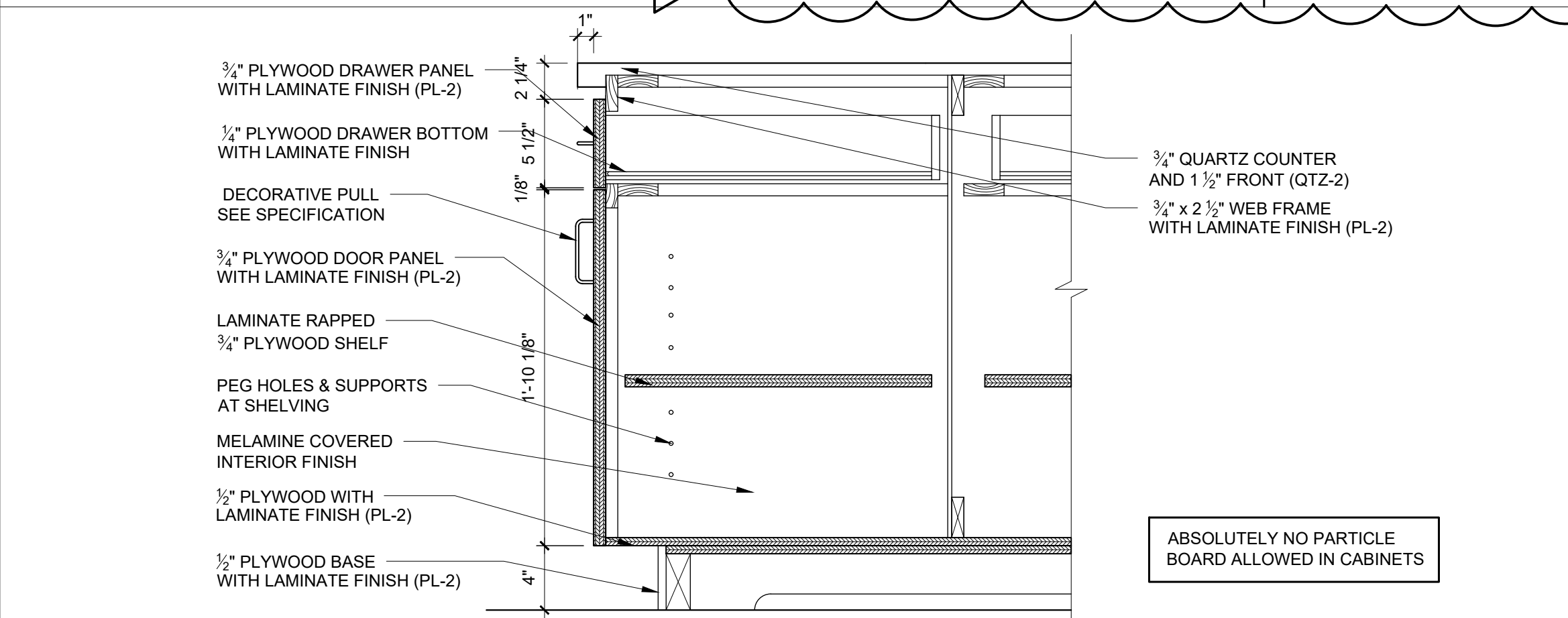
SEAL
1-9-21

SHEET NUMBER

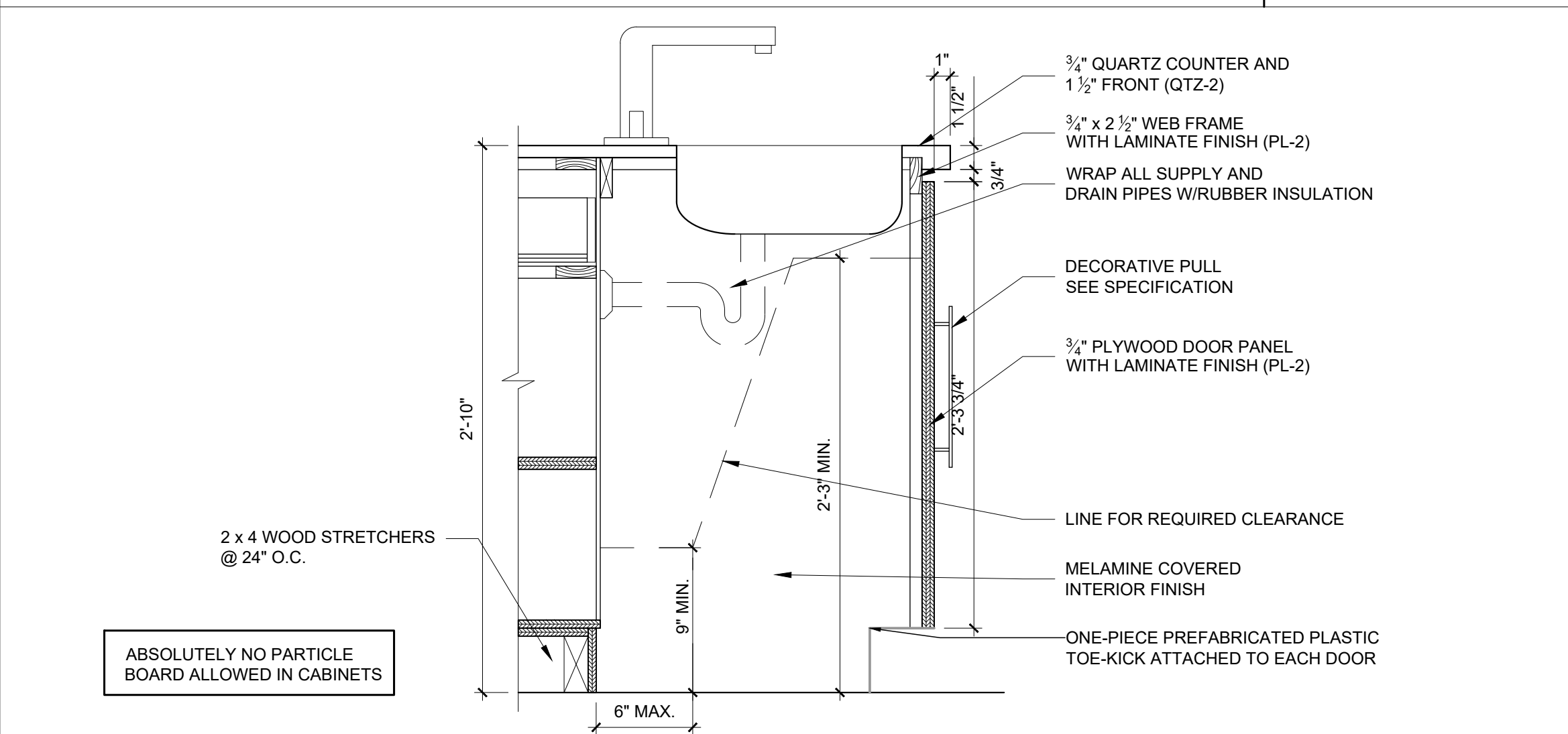
A902



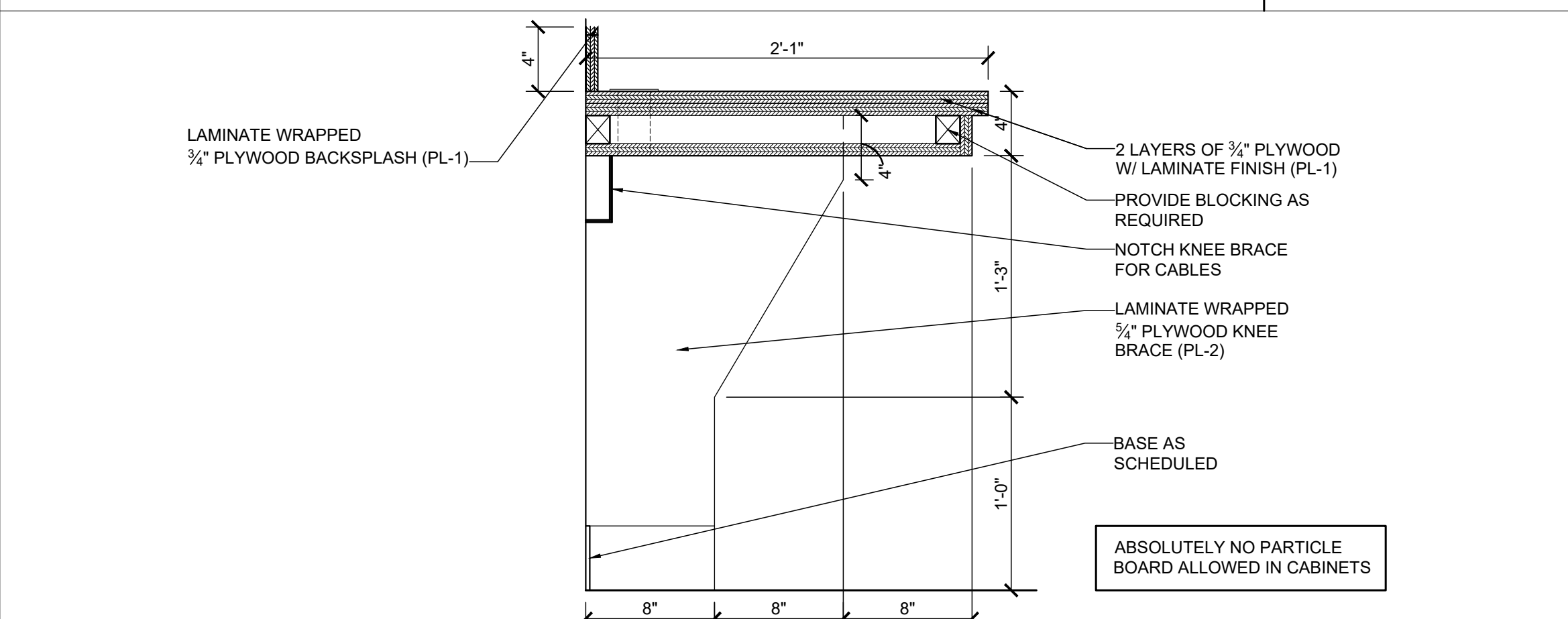
CASEWORK SECTION SCALE: 1 1/2" = 1'-0" 11



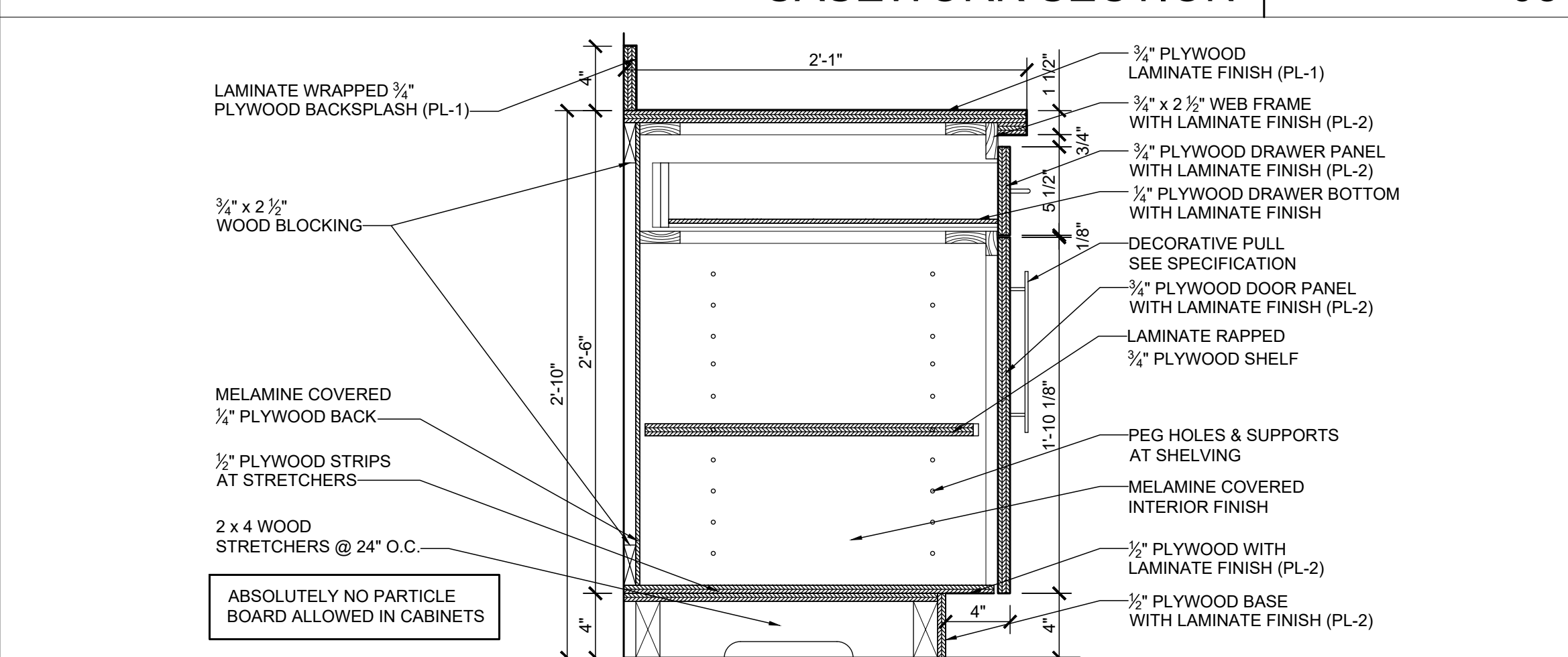
CASEWORK SECTION SCALE: 1 1/2" = 1'-0" 10



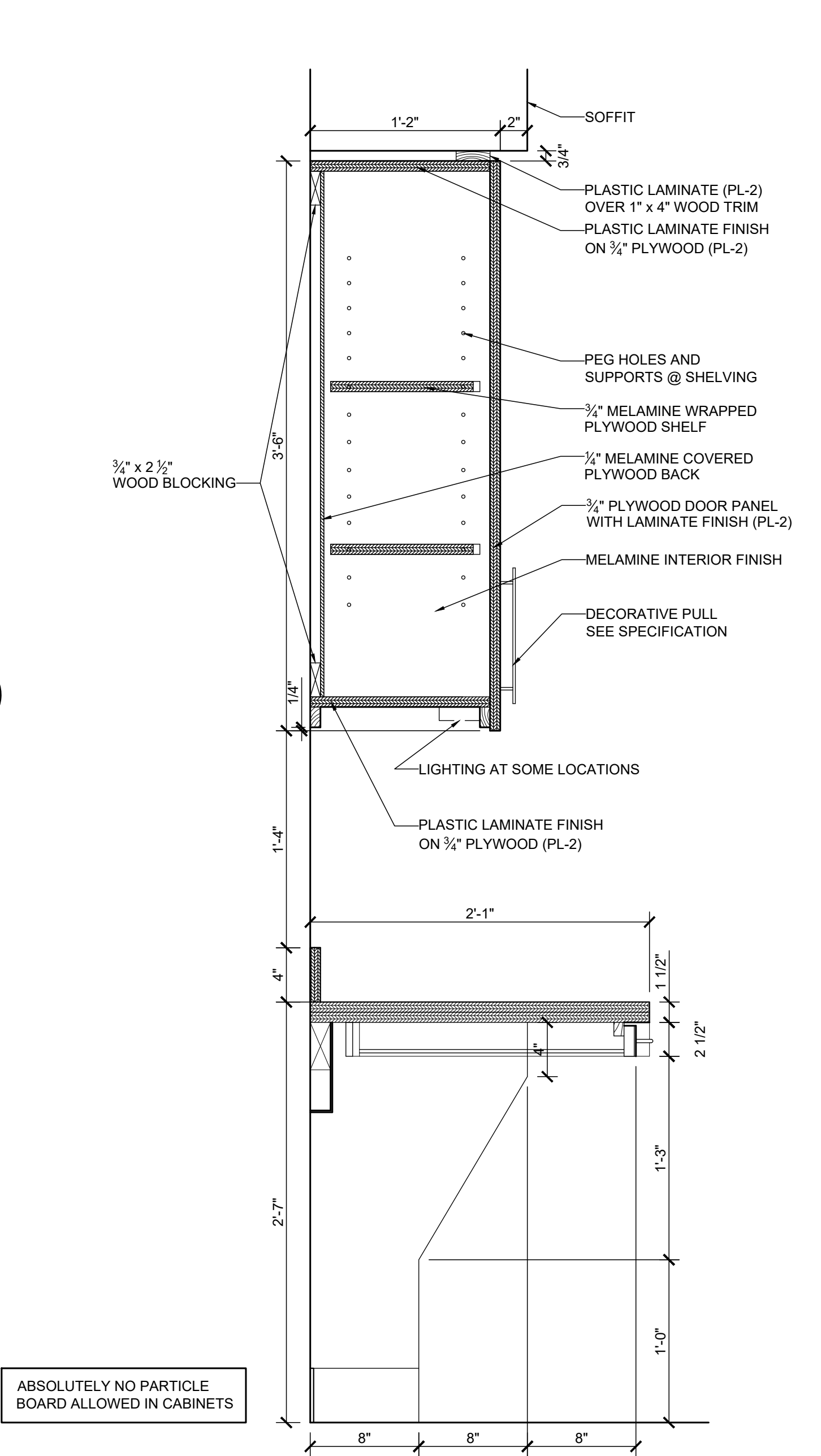
CASEWORK SECTION SCALE: 1 1/2" = 1'-0" 09



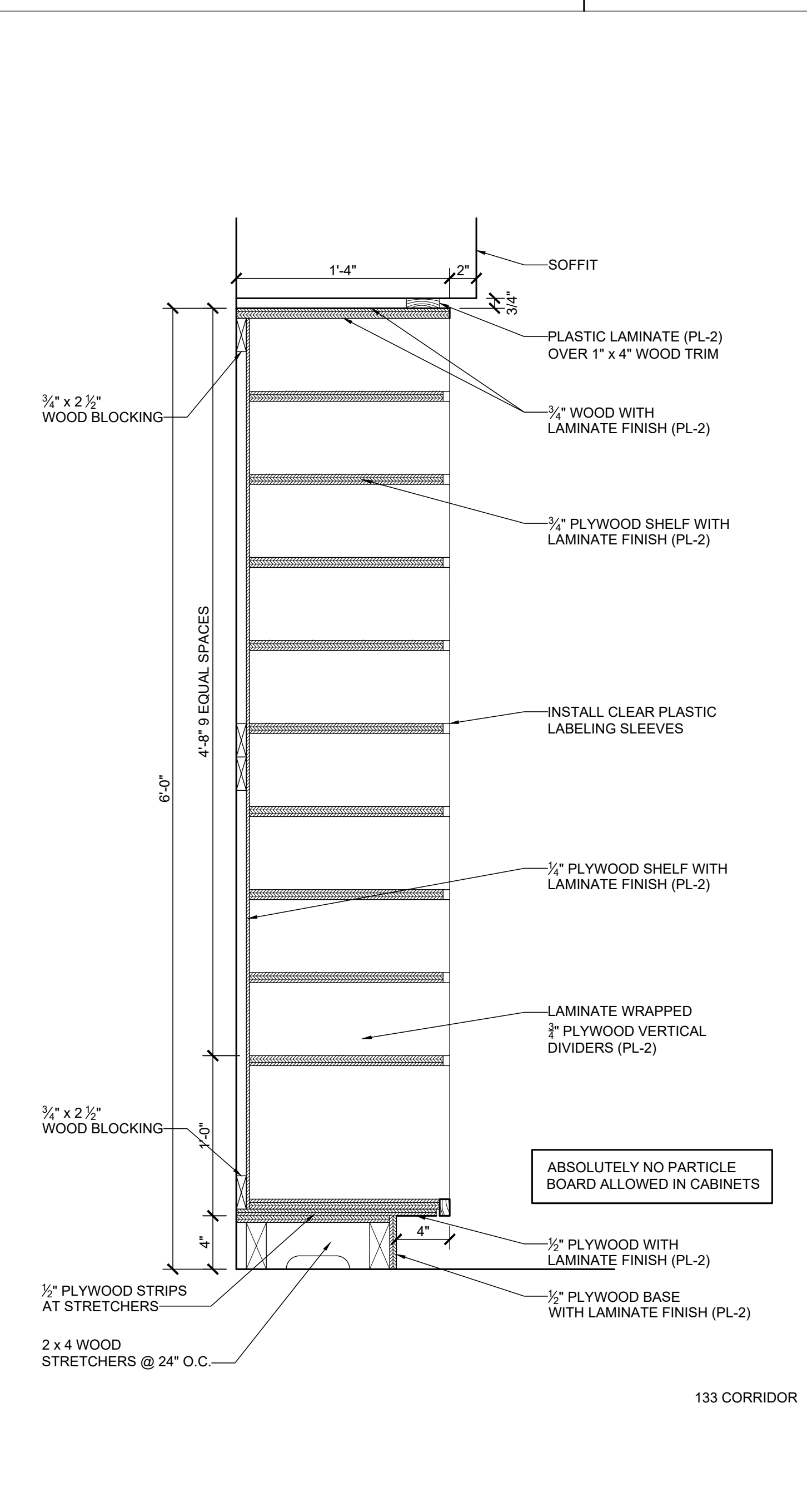
CASEWORK SECTION SCALE: 1 1/2" = 1'-0" 08



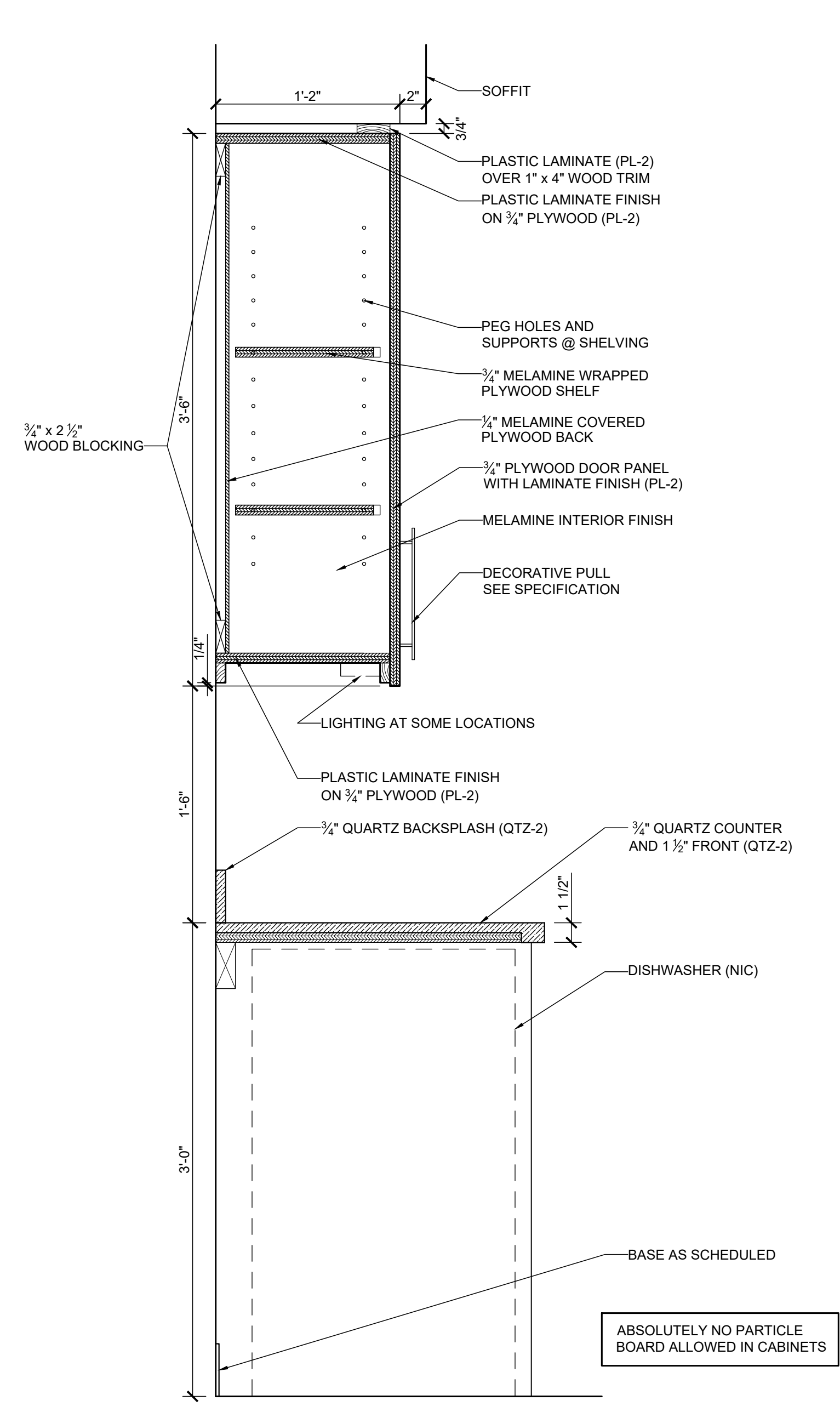
CASEWORK SECTION SCALE: 1 1/2" = 1'-0" 07



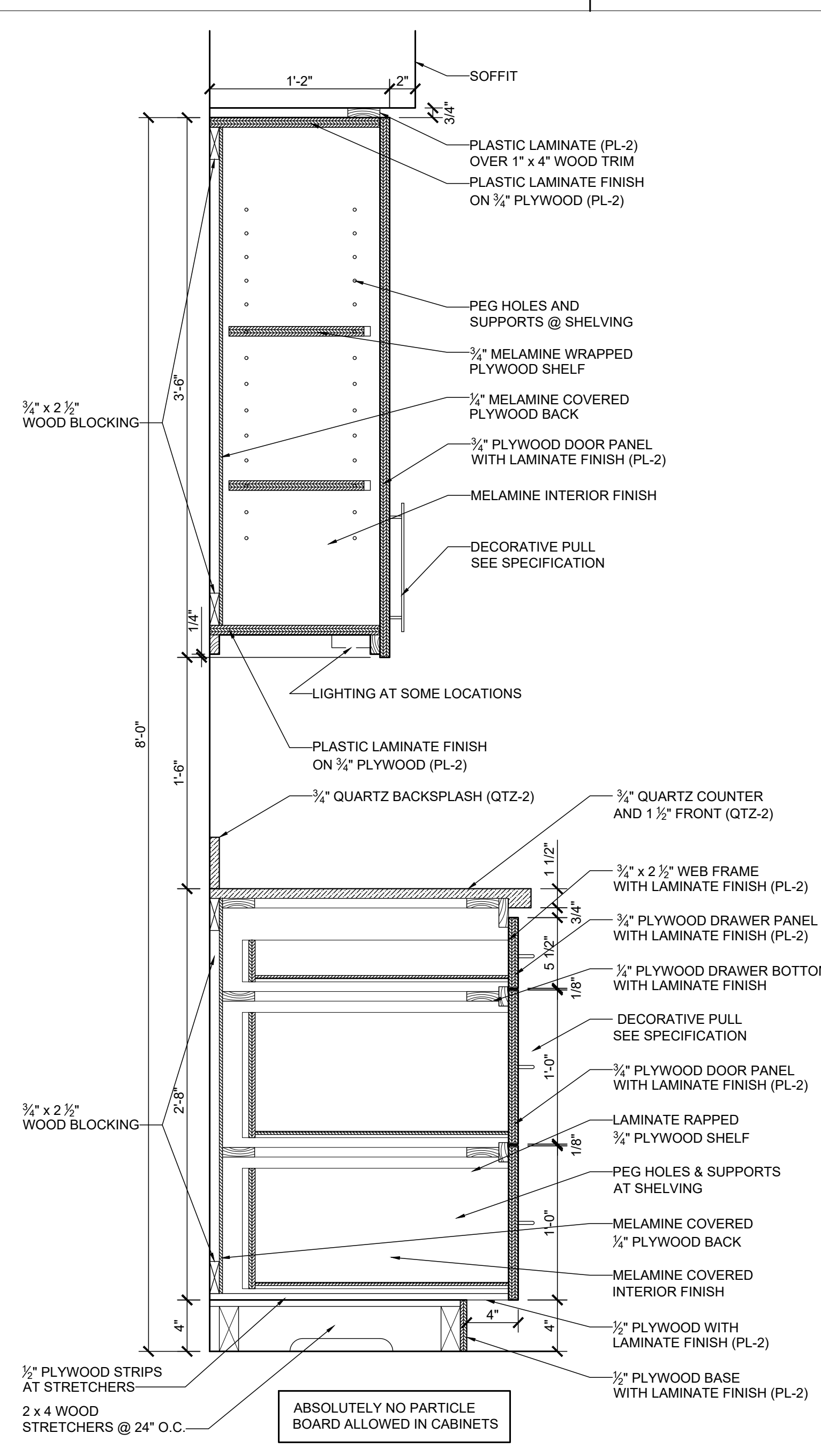
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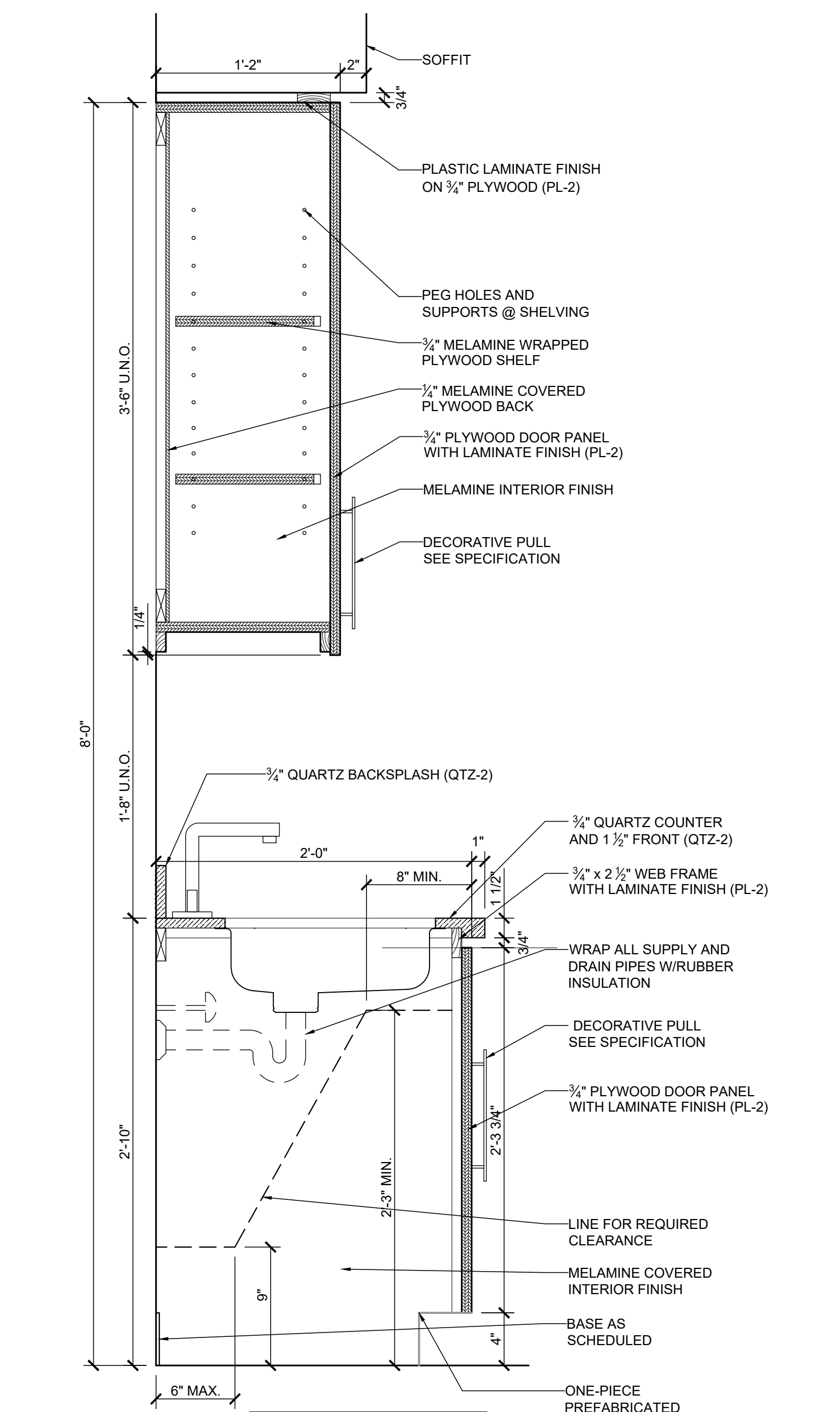
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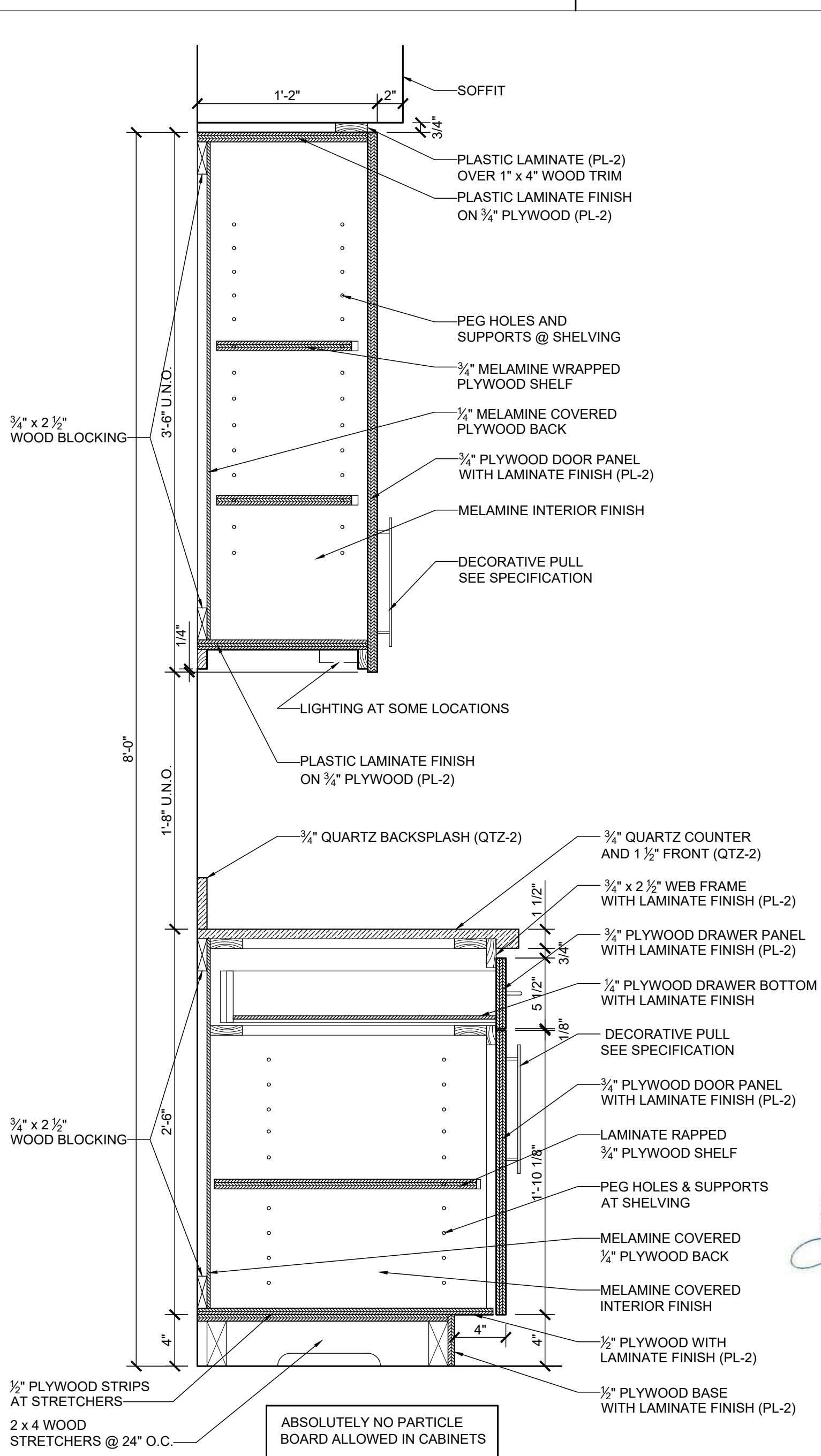
CASEWORK SECTION SCALE: 1 1/2" = 1'-0" 04



CASEWORK SECTION SCALE: 1 1/2" = 1'-0" 03



CASEWORK SECTION SCALE: 1 1/2" = 1'-0" 02



CASEWORK SECTION SCALE: 1 1/2" = 1'-0" 01

GENERAL	
1. THESE GENERAL NOTES ARE NOT INTENDED TO REPLACE SPECIFICATIONS, SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES.	
2. IF THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE. ALL APPLICABLE SAFETY REGULATIONS TO BE FOLLOWED STRICTLY.	
3. THE STRUCTURE HAS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETED STRUCTURE. APPLICATIONS OF CONSTRUCTION LOADS TO THE PARTIALLY COMPLETED STRUCTURE SHALL BE CONSIDERED BY THE CONTRACTOR AND SO INCLUDED IN THE DESIGN OF SHORING, BRACING, FORMWORK, AND ANY OTHER SUPPORTING ELEMENTS PROVIDED FOR CONSTRUCTION OF THE STRUCTURE. DURING ERECTION AND UNTIL ALL PERMANENT CONNECTIONS ARE MADE, THE CONTRACTOR MUST PROVIDE TEMPORARY BRACING FOR THE STRUCTURE IN ALL DIRECTIONS.	
4. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND GRADE CONDITIONS (BOTH NEW AND EXISTING), REPORTING ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH ANY PHASE OF THE WORK.	
5. THE CONTRACTOR SHALL COMPARE STRUCTURAL SECTIONS WITH ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL MEMBERS.	
6. DO NOT SCALE DIMENSIONS FROM DRAWINGS. THE CONTRACTOR SHALL REQUEST, FROM THE ARCHITECT, NECESSARY DIMENSIONS NOT SHOWN ON THE DRAWINGS.	
7. IF ANY BIDDER IS IN DOUBT AS TO THE INTENT OF THE PLANS OR SPECIFICATIONS, THEY SHALL REQUEST AN INTERPRETATION FROM THE ARCHITECT IN WRITING AT LEAST TEN (10) DAYS PRIOR TO THE SCHEDULED BID DATE.	
8. PRINCIPAL OPENINGS IN THE STRUCTURE ARE SHOWN ON THESE DRAWINGS. THE GENERAL CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR REQUIRED OPENINGS AS THEY SHALL BE PROVIDED FOR WHETHER SHOWN ON THESE DRAWINGS OR NOT. GENERAL CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ALL SUB-CONTRACTORS PRIOR TO CONSTRUCTION.	
9. SEE ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS, FLOOR SLOPES, AND THE LOCATION OF DEPRESSED FLOOR AREAS.	
10. WHERE A CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS OCCURS THE MORE STRINGENT REQUIREMENT SHALL APPLY.	
11. WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS EVEN THOUGH NOT SPECIFICALLY REFERENCED ON THE DRAWINGS.	
12. SEVERAL ITEMS NOTED HEREIN AND IN THE SPECIFICATIONS REQUIRE THE CONTRACTOR TO ENGAGE A PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED, TO PROVIDE DESIGN AND/OR DETAILING OF STRUCTURAL ELEMENTS. SEE INDIVIDUAL NOTES AND SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. DELEGATED DESIGN ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO:	
□ SPECIALTY FOUNDATION SYSTEM	
□ POST-TENSIONED CONCRETE	
□ STRUCTURAL PRECAST CONCRETE	
□ ARCHITECTURAL PRECAST CONCRETE	
□ STRUCTURAL STEEL (CONNECTIONS)	
✕ PREFABRICATED METAL BUILDING	
□ STEEL STAIRS AND RAILINGS	
✕ STEEL JOISTS AND STEEL JOIST GIRDERS	
□ ROOF ANCHORS	
✕ NON-LOAD BEARING COLD-FORMED STEEL	
□ LOAD BEARING COLD-FORMED STEEL	
□ LIGHT GAUGE COLD-FORMED STEEL TRUSSES	
□ PREFABRICATED WOOD TRUSSES	
✕ MAPES PRE-ENGINEERED CANOPY	

DESIGN CRITERIA

- APPLICABLE CODES:
2018 NORTH CAROLINA STATE BUILDING CODE (2015 INTERNATIONAL BUILDING CODE WITH REVISIONS)
MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE/SEI 7-10)
BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14)
BUILDING CODE REQUIREMENTS/SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530/530.1-13)
SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC 360-10)
NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS/AWC NDS-2015)
NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS (AISI S100-12)
- LIVE LOADS:

	UNIFORM (PSF)	CONCENTRATED (LB)
CORRIDORS (GROUND)	100	2,000
MECHANICAL	150	NA
ROOF	20	300

RISK CATEGORY: IV

SNOW LOAD:
GROUND SNOW LOAD $p_g = 10$ PSF
IMPORTANCE FACTOR $I_s = 1.20$
SNOW EXPOSURE FACTOR $C_e = 1.00$
THERMAL FACTOR $C_t = 1.00$
FLAT SNOW ROOF LOAD $p = 10$ PSF

WIND LOAD:
ULTIMATE DESIGN WIND SPEED $V_{ult} = 135$ MPH
NOMINAL DESIGN WIND SPEED $V_{nom} = 103$ MPH
EXPOSURE CATEGORY C
INTERNAL PRESSURE COEFFICIENTS
E911 WING $V_x = 132k$ $V_y = 54k$
MAIN BUILDING $V_x = 132k$ $V_y = 83k$
EMS WING $V_x = 31k$ $V_y = 70k$

COMPONENTS AND CLADDING -
ALL BUILDING COMPONENTS AND CLADDING ENGINEERED BY THE COMPONENT MANUFACTURER ARE TO BE DESIGNED BY THE MANUFACTURER'S ENGINEER FOR WIND LOADS DETERMINED PER THE GOVERNING BUILDING CODE FOR THE BASIC DESIGN WIND VELOCITY AND EXPOSURE CATEGORY LISTED ABOVE.

ROOF	10SF	20SF	50SF	100SF
ZONE 1	17.9/-44.0	16.8/-42.9	15.3/-41.4	14.2/-40.3
2	40.3/-73.8	38.5/-66	36.1/-55.6	34.4/-47.7
3	40.3/-73.8	38.5/-66	36.1/-55.6	34.4/-47.7

WALL

ZONE	4	40.3/-43.6	38.5/-41.9	36.1/-39.5	34.4/-37.7
5	40.3/-53.7	38.5/-50.1	36.1/-45.4	34.4/-41.9	

- SEISMIC LOAD:
DESIGN METHOD - EQUIVALENT LATERAL FORCE PROCEDURE (VALUES BASED ON ASCE 7-16)

	R_s	R_d	R_e	R_t
S_{DS}	13.7 %g			
S_{D1}	6.4 %g			
S_{D5}	14.6 %g			
S_{D1}	10.2 %g			
IMPORTANCE FACTOR	$I_s = 1.50$			
SITE CLASS	D			

SEISMIC DESIGN CATEGORY -
SEISMIC FORCE-RESISTING SYSTEM -
INTERMEDIATE REINFORCED MASONRY SHEAR WALLS AND STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE

RESPONSE MODIFICATION COEFFICIENT $R_s = 3.5, 3.0$ $R_d = 3.5, 3.0$
DEFLECTION AMPLIFICATION FACTOR $C_{dr} = 2.25, 3.0$ $C_{dv} = 2.25, 3.0$
SEISMIC RESPONSE COEFFICIENT $C_{sr} = .063/.073$ $C_{sv} = .063/.073$

BASE SHEAR
E911 WING $V_x = 16k$ $V_y = 16k$
MAIN BUILDING $V_x = 41k$ $V_y = 41k$
EMS WING $V_x = 55k$ $V_y = 55k$

NONSTRUCTURAL COMPONENT ANCHORAGE
ALL ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING COMPONENTS ARE TO BE ATTACHED AS REQUIRED BY ASCE/SEI 7 CHAPTER 13, "SEISMIC DESIGN REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS". EACH INDIVIDUAL CONTRACTOR RESPONSIBLE FOR THE COMPONENT MUST PROVIDE PROJECT SPECIFIC DESIGN AND DOCUMENTATION PREPARED BY AN ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED. CHAPTER 13 DEFINES THE FORCE REQUIRED TO SUPPORT THE COMPONENT FOR THE ANCHORAGE AND BRACING. THE COST OF PREPARING THIS INFORMATION AND DESIGN SHALL BE INCLUDED IN EACH CONTRACTOR'S BID THAT IS PROVIDING THE COMPONENT.

- FUTURE LOADS:
UNLESS SPECIFICALLY NOTED, THERE ARE NO PROVISIONS MADE FOR FUTURE FLOORS, ROOFS, OR OTHER LOADS.

FOUNDATIONS

- FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL INVESTIGATION REPORT BY:
S&ME, INC., DATED APRIL 30, 2020 (PROJECT #1305-20-023)
THE DESIGN ALLOWABLE SOIL BEARING PRESSURE IS 2,000 PSF, BASED ON THIS REPORT.
FOOTINGS SHALL BE CARRIED TO LOWER ELEVATIONS THAN THOSE SHOWN ON THE DRAWINGS IF REQUIRED BY THE GEOTECHNICAL ENGINEER OR TESTING LAB TO REACH SOIL CAPABLE OF PROVIDING THE DESIGN ALLOWABLE SOIL BEARING PRESSURE.
- MINIMUM SUBGRADE PREPARATION REQUIREMENTS ARE AS FOLLOWS:
PREPARE SUBGRADE AND UNDERFLOOR FILL TO A POINT THAT EXTENDS 5'-0" (MINIMUM) BEYOND THE LIMITS OF THE FOUNDATIONS.
COMPACT ALL FILL UNDER BUILDING TO 95% MAXIMUM DENSITY AS DETERMINED BY ASTM D698 AND TO 98% MAXIMUM DENSITY WITHIN THE UPPER 18".
PLACE IN LAYERS OF 8" (MAXIMUM) LOOSE THICKNESS.
FIELD COMPACTION SHALL BE VERIFIED WITH AT LEAST ONE TEST PER 2,000 SQUARE FEET PER LAYER, IN ACCORDANCE WITH ASTM D1556 (SAND-CONE METHOD), ASTM D6938 (NUCLEAR METHODS, SHALLOW DEPTH), ASTM D2167 (RUBBER BALLOON METHOD), AND/OR ASTM D2937 (DRIVE-CYLINDER METHOD). SEE SPECIFICATIONS FOR OTHER TESTING REQUIREMENTS.
- WALLS RETAINING SOIL SHALL BE TEMPORARILY BRACED DURING BACKFILLING AND UNTIL ALL SUPPORTING SOIL AND SLABS ARE IN PLACE AND ARE AT DESIGN STRENGTH UNLESS NOTED OTHERWISE ON PLANS AND DETAILS.
- UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER. CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS OF ALL SUCH CONDITIONS PRIOR TO CONSTRUCTION.
- SUBGRADE MUST BE CHEMICALLY STABILIZED TO PRODUCE A MINIMUM 12" THICK CHEMICALLY STABILIZED LAYER.
- SITE GRADES SHOULD BE RAISED AT LEAST 3' AS NOTED IN THE GEOTECHNICAL REPORT.
- SITE WORK EQUIPMENT AND GROUND WATER MUST BE MANAGED AND DRAINAGE DITCHES INSTALLED AS RECOMMENDED IN THE GEOTECHNICAL REPORT.

CONCRETE / REINFORCING STEEL

- ALL CONCRETE DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REFERENCED EDITION OF THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318).
- CONCRETE MIXTURES AS REQUIRED (BASED ON CLASS DESIGNATION):

CLASS	A - FOOTINGS, GRADE/TIE BEAMS	NWC	3,000 PSI
CLASS C -	INTERIOR SLABS ON GRADE	NWC	3,000 PSI
CLASS D -	INTERIOR SLABS ON GRADE AT VEHICLE BAYS	NWC	4,000 PSI
CLASS F -	EXTERIOR SLABS ON GRADE, PADS, TOPPINGS	NWC	4,500 PSI
CLASS F -	EXTERIOR RETAINING WALLS	NWC	4,500 PSI
- REINFORCING:
TYPICAL - ASTM A615, GRADE 60
REINFORCING TO BE WELDED - ASTM A706
DEFORMED BAR ANCHORS - ASTM A496
WELDED WIRE FABRIC - ASTM A1064 (FLAT SHEETS ONLY)
GROUT UNDER BASE PLATES TO BE HIGH STRENGTH (5,000 PSI), NON-SHRINK.
REFER TO THE DRAWINGS FOR REINFORCING LAP REQUIREMENTS. WHERE LAP SPLICES ARE NOT SHOWN, LAP PER ACI 318 OR CRSI STANDARDS.
LAP WELDED WIRE FABRIC SHEETS 8" MINIMUM.
CLEAR COVER FROM FACE OF CONCRETE:
CONCRETE NOT EXPOSED TO EARTH/WEATHER
CONCRETE CAST AGAINST AND EXPOSED TO EARTH
3" 2" FOR #6 BARS AND LARGER, 1 1/2" ELSE
CONCRETE NOT EXPOSED TO EARTH/WEATHER
PROVIDE REINFORCING IN SLABS ON GRADE, 1-1/2" FROM TOP OF SLAB.
4" SLABS 6x6-W2.1xW2.1
6" SLABS #3@12"OC EACH WAY
8" SLABS #4@12"OC EACH WAY
- WHERE SCHEDULED BARS ARE NOT PRESENT, PROVIDE CONTINUOUS #5 TOP AND BOTTOM BARS TO SUPPORT STIRRUPS AS REQUIRED FOR THE LENGTH OF THE STIRRUP SPACING IN ALL BEAMS.
- WALL FOOTING REINFORCING SHALL BE CONTINUOUS THROUGH ADJACENT COLUMN FOOTINGS.
- PROVIDE VERTICAL DOVETAIL SLOTS AT 24"OC WITH TIES AT 18"OC VERTICALLY IN ALL CONCRETE WALLS BACKING-UP MASONRY VENEER.
- BAR SUPPORTS FOR CONCRETE EXPOSED TO VIEW SHALL HAVE PLASTIC COATED LEGS OR BE HOT-DIP GALVANIZED AFTER FABRICATION.
- MECHANICAL AND ELECTRICAL CONDUIT IN SLABS ON GRADE AND ELEVATED SLABS SHALL RUN UNDER TOP LAYER OF SLAB REINFORCING. PROVIDE A MINIMUM OF 1-1/2" CLEAR BETWEEN CONDUITS AND BETWEEN REINFORCING AND ADJACENT CONDUITS PARALLEL TO REINFORCING. IF MAXIMUM SIZE OF CONDUIT EXCEEDS ONE THIRD OF THE SLAB DEPTH, ADDITIONAL FRAMING OR REINFORCING MAY BE NECESSARY AT ENGINEER'S DISCRETION.
- DEVELOP CONCRETE ANCHORS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A108, GRADES 1010, 1015, 1017, OR 1020. STUDS SHALL BE AUTOMATICALLY END WELDED IN THE SHOP OR FIELD IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- EMBED PLATES MUST BE SET IN THE FORM BEFORE POURING CONCRETE, NOT PLACED INTO TOP OF WET CONCRETE. THE CONTRACTOR SHALL CONTACT THE ARCHITECT FOR CORRECTIVE DETAILS FOR ANY EMBED PLATES LEFT OUT OF CONCRETE POURS.
- FOR SLABS ON GRADE, SLAB AND FOOTING REINFORCING SHALL BE HELD IN PLACE BY BAR SUPPORTS WITH SAND PLATES, OR PRECAST CONCRETE BAR SUPPORTS AS DESCRIBED IN CHAPTER 3 OF THE CRSI MANUAL OF STANDARD PRACTICE. BAR SUPPORTS SHALL BE SPACED AT A MAXIMUM OF 4'-0"OC BOTH WAYS. ROCKS, CHU, OR CLAY BRICK WILL NOT BE USED AS SUPPORTS.
- THE CONTRACTOR SHALL ASSUME CONCRETE OVERAGES IN ELEVATED DECK POURS DUE TO MEMBER AND DECK DEFLECTIONS. UNLESS SHOWN ON PLANS, BEAMS ARE NOT CAMBERED. CONCRETE OVERAGES MAY BE CALCULATED BY THE CONTRACTOR FOR BEAM DEFLECTIONS EQUATING L/300 INCLUDING ADDITIONAL DEFLECTIONS DUE TO PONDING AND DECK DEFLECTIONS PER SDI.
- REBAR SHALL NOT BE HEATED WITH A TORCH IN THE FIELD.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER FAR ENOUGH IN ADVANCE (48 HOURS) OF EACH CONCRETE POUR TO ALLOW AMPLE TIME TO CHECK THE LAYOUT OF THE STEEL BEFORE THE BEGINNING OF THE ACTUAL POUR, BUT NOT PRIOR TO 90% OF THE STEEL HAVING BEEN PLACED.

CONCRETE CONSTRUCTION JOINTS

- CONTRACTOR SHALL PROVIDE NECESSARY CONSTRUCTION JOINTS IN MONOLITHIC CONCRETE POURS SO THAT THE QUALITY OF PLACEMENT AND FINISH MEETS THE REQUIREMENTS OF PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT A PLAN SHOWING THE LOCATION OF ALL CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER FOR APPROVAL.
- WHERE SHOWN, CONSTRUCTION JOINTS IN CONCRETE POURS, ALL VERTICAL CONSTRUCTION JOINTS IN SLABS AND BEAMS SHALL BE MADE WITH BULKHEADS. ADDITIONAL REINFORCING AT CONSTRUCTION JOINTS SHALL BE AS SPECIFIED BY THE STRUCTURAL ENGINEER. SEE TYPICAL CONSTRUCTION JOINT DETAILS.

STRUCTURAL MASONRY

- ALL MASONRY DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REFERENCED EDITION OF THE BUILDING CODE REQUIREMENTS/SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530/530.1).
- LOAD BEARING MASONRY WALLS, PILASTERS, PIERS, RETAINING WALLS, FOUNDATION WALLS AND ANY OTHER MASONRY SO DESIGNATED ON DRAWINGS IS CONSIDERED HERE TO BE STRUCTURAL MASONRY.
- REQUIRED COMPRESSIVE STRENGTH OF MASONRY UNITS:
SOLID CLAY UNITS - 6,200 PSI
CONCRETE UNITS - 2,000 PSI ON NET AREA
- CONCRETE MASONRY UNITS SHALL BE LIGHT WEIGHT (105 PCF) CONFORMING TO ASTM C90. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR UNIT SIZE, FACE, COLOR, JOINTING, ETC.
- MORTAR SHALL BE TYPE S, ASTM C270.
- GROUT FOR REINFORCED MASONRY SHALL BE FINE GROUT, ASTM C476. MINIMUM 28-DAY COMPRESSIVE STRENGTH SHALL BE 2,000 PSI.
- MINIMUM 28-DAY COMPRESSION (f'_m) OF THE MASONRY WALLS SHALL BE 2,000 PSI. MASONRY STRENGTH SHALL BE DETERMINED BY THE UNIT STRENGTH METHOD OR THE PRISM TEST METHOD AS DESCRIBED BY ACI 530.
- REINFORCING:
TYPICAL - ASTM A615, GRADE 60
ALL REINFORCING TO BE WELDED - ASTM A706
- REFER TO THE DRAWINGS FOR REINFORCING LAP TYPICAL DETAIL AND SCHEDULE REQUIREMENTS. WHERE LAP SPLICES ARE NOT SHOWN, LAP 72 BAR DIAMETERS.
- MAXIMUM HEIGHT TO WHICH MASONRY SHALL BE LAID BEFORE GROUTING IS 5 FEET ABOVE CONSTRUCTION SURFACE OR PREVIOUSLY GROUTED MASONRY. IF GROUT FOUR HEIGHT EXCEEDS 5 FEET, THEN "HIGH LIFT" GROUTING PROCEDURE MUST BE FOLLOWED. PROVIDE CLEANOUT OPENINGS AT THE BOTTOM OF EACH GROUT POUR HEIGHT. CLEANOUT OPENINGS SHALL BE PROVIDED AT EACH CELL TO BE FILLED WITH GROUT.
- ALL GROUT PLACED OVER 12" IN HEIGHT SHALL BE MECHANICALLY CONSOLIDATED DURING GROUTING. GROUT SHALL BE RECONSOLIDATED WITH MECHANICAL VIBRATION AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED.
- MAXIMUM GROUT LIFT (GROUT POURED IN ONE CONTINUOUS OPERATION) IS 5 FEET. THIS LIMIT ALSO APPLIES TO "HIGH LIFT" GROUTING.
- REINFORCE MASONRY WHERE SHOWN ON STRUCTURAL DRAWINGS. THE REINFORCING IN POSITION AND PLACE GROUT AROUND REINFORCING. DO NOT PUSH REINFORCING DOWN INTO PREVIOUSLY PLACED GROUT FILL. SET BOLTS SIMILARLY.
- THE MASONRY WYTHES WITH HORIZONTAL REINFORCING AS SPECIFIED.
- PROVIDE VERTICAL BARS, SIZE MATCHING WALL REINFORCING, AT ALL CORNERS, ENDS OF WALLS, EACH SIDE OF CONTROL JOINTS AND EACH SIDE OF WALL OPENINGS. TIE EACH BAR TO THE FOUNDATION WITH A MATCHING DOWEL.
- ALL CORNERS AND INTERSECTIONS OF STRUCTURAL MASONRY WALLS SHALL BE CONSTRUCTED BY INTERLOCKING COURSES.
- ALL LIMITS TO BEAR 8" MINIMUM EACH SIDE OF OPENING, UNLESS NOTED OTHERWISE.
- GROUT ALL MASONRY WALLS AND CAVITY BELOW GRADE SOLID. GROUT ALL WALLS ABOVE GRADE AT THE REINFORCED CELLS (MINIMUM) OR AS INDICATED IN SPECIFIC SECTIONS.
- ONE 3/4"Ø (MAXIMUM) VERTICAL CONDUIT ALLOWED IN ANY REINFORCED CELL PROVIDED 1" CLEAR IS MAINTAINED BETWEEN REINFORCING AND CONDUIT. NO OTHER VERTICAL OR HORIZONTAL CONDUITS, PIPES, OR SLEEVES SHALL BE LOCATED IN REINFORCED CELLS UNLESS OTHERWISE APPROVED BY THE STRUCTURAL ENGINEER. CONTRACTOR SHALL COORDINATE LAYOUT TO AVOID REINFORCED CELLS.

STRUCTURAL STEEL

- DESIGN, FABRICATION, AND ERECTION SHALL BE PER THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC 360).
- STRUCTURAL STEEL:
WIDE FLANGE SHAPES (W SECTIONS) - ASTM A992, GRADE 50 (FY=50 KSI)
CHANNELS, ANGLES, RODS, AND BARS - A36 (FY=36 KSI)
PLATES - ASTM A572, GRADE 50 (FY=50 KSI) OR ASTM A36 (FY=36 KSI)
SQUARE AND RECTANGULAR TUBES - ASTM A500, GRADE B (FY=46 KSI)
PIPES - ASTM A53, GRADE B (FY=35 KSI)
- ANCHOR BOLTS AND THREADED RODS SHALL CONFORM TO ASTM F1554, GRADE 36, UNO.
- BEAM SIMPLE SHEAR AND BRACED FRAME CONNECTIONS NOT DETAILED ON STRUCTURAL DRAWINGS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER RETAINED BY THE STEEL SUPPLIER AND REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED. CONNECTIONS SHALL BE MADE WITH ASTM A325 3/4"Ø BOLTS (MINIMUM), TIGHTENED TO A SNUG-TIGHT CONDITION PER AISC REQUIREMENTS.
- THE CONNECTIONS FOR NON-COMPOSITE BEAMS SHALL BE DESIGNED FOR REACTIONS SHOWN ON DRAWINGS OR FOR REACTIONS DETERMINED BY USING THE MAXIMUM TOTAL UNIFORM LOAD TABULATED IN PART 3 OF THE AISC STEEL CONSTRUCTION MANUAL FOR THE SECTION, SPAN AND STRENGTH OF STEEL SPECIFIED.
- THE CONNECTIONS FOR COMPOSITE BEAMS SHALL BE DESIGNED FOR REACTIONS SHOWN ON DRAWINGS OR AS DICTATED BY THE TYPICAL COMPOSITE SLAB DETAIL.
- THE CONNECTION ENGINEER SHALL SUBMIT A SIGNED AND SEALED LETTER STATING THEY HAVE REVIEWED THE STEEL SHOP DRAWINGS AND THE CONNECTIONS ARE CONSISTENT WITH THEIR CALCULATIONS AND INTENT.
- WHERE STEEL MEMBERS ARE WELDED AND NO SIZE IS SPECIFIED, PROVIDE FULL LENGTH FILLET WELDS BOTH SIDES OF MEMBER. WELD SIZES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:

MEMBER THICKNESS	WELD SIZE
3/16" - 5/16"	3/16"
3/8" - 7/16"	1/4"
1/2"	5/16"
9/16"	3/8"
5/8"	7/16"
- SPLICING OF STRUCTURAL STEEL MEMBERS IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ENGINEER AS TO LOCATION AND TYPE OF SPLICE TO BE MADE. ANY MEMBER HAVING A SPLICE NOT SHOWN AND DETAILED ON SHOP DRAWINGS WILL BE REJECTED.
- ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODE. USE E70 SERIES ELECTRODES FOR ALL STRUCTURAL STEEL WELDS.
- SEE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL ITEMS REQUIRED TO BE HOT-DIP GALVANIZED AFTER FABRICATION.
- STRUCTURAL STEEL SHALL BE PUNCHED FOR WOOD BLOCKING, NAILERS, CLIPS AND TIES IN ACCORDANCE WITH ARCHITECTURAL/STRUCTURAL DETAILS.
- ULTRASONIC INSPECTION BY THE TESTING LABORATORY SHALL BE PROVIDED FOR ALL WELDS CALLED FOR ON THE STRUCTURAL DRAWINGS OR SHOP DRAWINGS AS FULL PENETRATION WELDS.
- ALL STEEL EXPOSED TO VIEW SHALL BE CLASSIFIED AS ARCHITECTUALLY EXPOSED STRUCTURAL STEEL (AESS) AS DEFINED BY THE AISC CODE OF STANDARD PRACTICE AND SHALL BE TREATED AS SUCH.

STEEL JOISTS

- ALL STEEL JOISTS SHALL BE OPEN-WEB TYPE CONFORMING TO THE LATEST EDITION OF "STANDARD SPECIFICATIONS, LOAD TABLES AND WEIGHT TABLES FOR STEEL JOISTS AND JOIST GIRDERS" PUBLISHED BY THE STEEL JOIST INSTITUTE.
- PROVIDE BRIDGING PER STEEL JOIST INSTITUTE STANDARD SPECIFICATION. ALL BRIDGING SHALL BE BOLTED OR WELDED AT ALL JOISTS AND AT ALL CROSSINGS AND ANCHORED TO SPANDREL MEMBERS. ALL BRIDGING FOR JOISTS USED AS SPANDREL MEMBERS (AT EDGE OF DECK) SHALL BE "X" BRIDGING. SIZE OF BRIDGING SHALL BE DETERMINED BY THE JOIST SUPPLIER. JOIST SUPPLIER TO PROVIDE ADDITIONAL BRIDGING AS REQUIRED FOR UPLIFT LOADS.
- ALL JOISTS SHALL HAVE ANGLE BOTTOM CHORD MEMBERS UNLESS OTHERWISE APPROVED.
- ALL K-SERIES JOISTS SHALL BE WELDED TO SUPPORT STEEL WITH A MINIMUM OF 2" OF 1/8" FILLET WELD AT BOTH SIDES OF JOIST SEAT.
- WHERE JOISTS FRAME TO COLUMNS, JOISTS SHALL BE FIELD BOLTED TO COLUMNS WITH (2)1/2"Ø A307 BOLTS AT EACH END OF THE JOIST TO PROVIDE LATERAL STABILITY DURING CONSTRUCTION.
- PROVIDE BOLTED DIAGONAL BRIDGING WHERE REQUIRED PER STEEL JOIST INSTITUTE STANDARD SPECIFICATIONS. JOIST SHOP DRAWINGS SHALL INDICATE ALL JOISTS WHICH SHALL HAVE A ROW OF BOLTED BRIDGING IN PLACE BEFORE SLACKENING OF HOISTING LINES.
- JOIST MANUFACTURER SHALL BE PREPARED TO SUBMIT CALCULATIONS FOR ALL JOISTS AT ARCHITECT'S OR ENGINEER'S REQUEST. CALCULATIONS SHALL HAVE LOAD DIAGRAMS FOR EACH MEMBER CLEARLY INDICATING SPAN, UNIFORM AND CONCENTRATED LOADS. ALL CALCULATIONS SHALL BEAR THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED.
- JOISTS SHALL BE DESIGNED FOR A NET WIND UPLIFT LOAD OF 20 PSF UNLESS NOTED OTHERWISE.

NON-LOAD BEARING COLD-FORMED STEEL (METAL STUDS)

- ALL STRUCTURAL MEMBERS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE REFERENCED EDITION OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS BY THE AMERICAN IRON AND STEEL INSTITUTE.
- ALL COLD-FORMED LIGHT GAUGE METAL FRAMING AND CONNECTIONS SHALL BE DESIGNED BY THE SUPPLIER'S ENGINEER. AT ARCHITECT'S OR ENGINEER'S REQUEST CONTRACTOR SHALL SUBMIT CALCULATIONS FOR ALL COLD-FORMED METAL FRAMING USED TO SUPPORT CEILINGS AND EXTERIOR CLADDING.
- ALL MEMBERS SHALL HAVE A MINIMUM YIELD STRENGTH OF 33 KSI AND BE FORMED FROM STEEL HAVING A G-90 GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A653 AND C955.
- ALL COLD-FORMED STEEL STRUCTURAL MEMBERS SHALL COME FROM A SINGLE SOURCE MANUFACTURER. ONLY MANUFACTURERS WHO ARE MEMBERS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) OR THE STEEL FRAMING INDUSTRY ASSOCIATION (SFIA) WILL BE ACCEPTED. THE INSTALLATION SHALL COMPLY WITH THE MANUFACTURER'S RECOMMENDATIONS.
- SUBMIT SHOP DRAWINGS FOR ALL COLD-FORMED METAL FRAMING USED TO SUPPORT CEILINGS AND EXTERIOR CLADDING. SHOP DRAWINGS SHALL INDICATE PLACING OF ALL FRAMING MEMBERS SHOWING TYPE, SIZE, GAUGE, NUMBER, LOCATION AND SPACING. THEY SHALL ALSO INDICATE SUPPLEMENTAL STRAPPING, BRACING, SPLICES, BRIDGING, ACCESSORIES AND DETAILS REQUIRED FOR PROPER INSTALLATION.
- SHOP DRAWINGS SHALL SHOW SIZE AND LENGTH OF WELDS FOR ALL WELDED CONNECTIONS AND TYPE, SIZE AND NUMBER OF SCREWS FOR ALL SCREWED CONNECTIONS. SUBMIT MANUFACTURER'S DATA GIVING STRENGTH VALUES FOR SCREWS USED.
- SHOP DRAWINGS SUBMITTED MUST BE PREPARED UNDER THE SUPERVISION OF AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED.
- ALL STRUCTURAL FRAMING ACCESSORIES SHALL BE FORMED FROM STRUCTURAL QUALITY STEEL WITH A MINIMUM YIELD STRENGTH OF 50 KSI AND HAVE MINIMUM PROTECTIVE COATING EQUAL TO ASTM A653 G-90 GALVANIZED COATING.
- VERTICAL DEFLECTION CLIPS ARE REQUIRED TO BE CAPABLE OF ACCOMMODATING UPWARD AND DOWNWARD VERTICAL DISPLACEMENT OF THE STRUCTURE THROUGH POSITIVE MECHANICAL ATTACHMENT TO STUD WEB, MECHANICAL ATTACHMENT TO STRUCTURE AND SCREW ATTACHMENT TO STUD WEB USING STEP-BUSHINGS TO PREVENT FRICTIONLESS VERTICAL MOVEMENT. CONNECTIONS MUST BE TESTED IN ACCORDANCE TO ICC AC261 CRITERIA AND HOLD A VALID ICC-ES EVALUATION SERVICE REPORT TO BE ACCEPTABLE.

ADHESIVE AND MECHANICAL POST-INSTALLED ANCHORS

- ANCHOR BOLTS, REINFORCING STEEL, THREADED RODS, STAIR HANDRAILS, AND OTHER EMBEDDED STEEL ITEMS SHALL BE SET INTO HARDENED CONCRETE WITH ADHESIVE OR MECHANICAL POST-INSTALLED ANCHOR ONLY WHERE DETAILED ON THE DRAWINGS OR WHERE APPROVED BY THE ENGINEER.
- PRE-APPROVED MANUFACTURERS ARE HILTI, SIMPSON STRONG-TIE, AND DEWALT. WHERE DETAILS INDICATE SPECIFIC ADHESIVE OR MECHANICAL POST-INSTALLED ANCHORS, IT IS ACCEPTABLE AT THE CONTRACTOR'S OPTION TO SUBMIT AN ALTERNATE SIMILAR PRODUCT PROVIDED BY A DIFFERENT MANUFACTURER AS LONG AS THE MANUFACTURER'S DATA PROVIDES EQUIVALENT LOAD CAPACITY TO THE ANCHOR SPECIFIED.
- MANUFACTURER'S DATA FOR ALL ADHESIVE AND MECHANICAL POST-INSTALLED ANCHORS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. SUBMITTALS FOR ADHESIVE ANCHOR PRODUCTS SHALL INCLUDE ICC-ES EVALUATION REPORTS. STRICTLY FOLLOW THE MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS. HEED ALL LABEL WARNINGS. INSTALL IN ACCORDANCE WITH APPLICABLE SAFETY LAWS.
- ALL HOLES SHALL BE DRILLED WITH A DIAMETER NO LARGER THAN 1/8" GREATER THAN THE DIAMETER OF THE STEEL MEMBER BEING INSTALLED.
- ALL HOLES SHALL BE CLEANED WITH COMPRESSED AIR AND SHALL BE DRY PRIOR TO INSTALLATION OF ADHESIVE. HOLES SHALL BE FREE OF ALL DELETERIOUS MATERIAL SUCH AS LAITANCE, DUST, DIRT, AND OIL.
- CONTRACTOR PERFORMING ADHESIVE WORK SHALL BE AN APPROVED CONTRACTOR BY THE MANUFACTURER FURNISHING THE ADHESIVE MATERIALS, AND SHALL HAVE NO LESS THAN FIVE YEARS EXPERIENCE IN THE VARIOUS TYPES OF ADHESIVE RELATED WORK REQUIRED IN THIS PROJECT. A CERTIFICATION FROM THE MANUFACTURER ATTESTING TO THE TRAINING SHALL BE SUBMITTED TO THE ENGINEER/ARCHITECT ALONG WITH THE PROPOSAL TO DO THE WORK.
- WHERE ADHESIVE ANCHORS ARE TO BE INSTALLED IN HOLLOW MATERIAL WITH UNKNOWN CAPACITY, THE CONTRACTOR SHALL INSTALL THE ANCHOR IN ULTIMATE CAPACITY UNITS UNLESS OTHERWISE SPECIFIED.
- ALL HOLES SHALL BE INSTALLED IN THE HOLLOW BASE MATERIAL USING SCREEN TUBES SUPPLIED BY THE MANUFACTURER. THE ADHESIVE SHALL BE CAPABLE OF SUSTAINING MINIMUM TENSION AND SHEAR LOAD CAPACITIES NOTED ON THE DRAWINGS MULTIPLIED BY A FACTOR OF SAFETY OF 4. ALL HARDWARE AND MATERIAL SHALL BE SUPPLIED BY THE ANCHOR MANUFACTURER.

REPRODUCTION

- THE USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HERE ON.

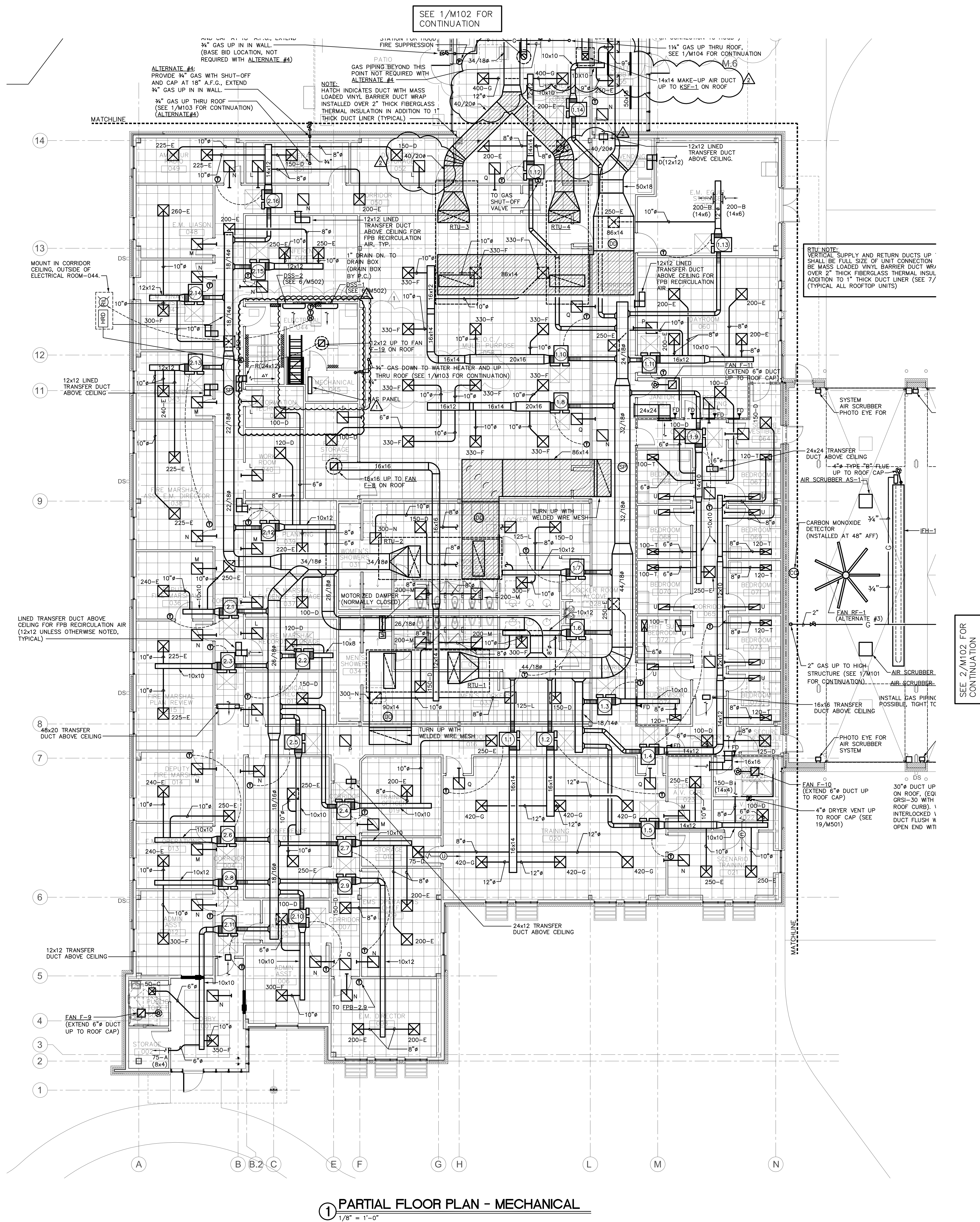
SYMBOL LEGEND		
SYMBOL	MEANING	REFERENCE
<No>	TOP OF FOOTING, GRADE BEAM, PILE CAP, OR DRILLED PIER. ELEVATION RELATIVE TO REFERENCE ELEVATION.	
<No> <No>	STEP IN TOP OF FOOTING ELEVATION. ELEVATION RELATIVE TO REFERENCE ELEVATION.	
[No]	DEPRESSED OR RAISED SLAB ELEVATION. ELEVATION RELATIVE TO FINISHED FLOOR ELEVATION.	SEE 3/S301
	SLOPED / STEPPED SLAB.	
[No]	TOP OF WALL OR PEDESTAL. ELEVATION RELATIVE TO REFERENCE ELEVATION.	
F#	SPREAD FOOTING TYPE.	
	SPOT ELEVATION. ELEVATION RELATIVE TO REFERENCE ELEVATION.	SEE 1/S302
D1	SPAN DIRECTION OF METAL ROOF DECK. CONSTRUCTION SHALL BE 1 1/2"-20GA METAL ROOF DECK.	SEE 1/SS02
(No) [+No]	TOP OF STEEL/JOIST BEARING ELEVATION TOP OF STEEL ABOVE STEEL/JOIST BEARING ELEVATION.	
V# H#	STEEL BEAM DESIGN END REACTIONS (WHERE APPLICABLE). "V" INDICATES VERTICAL SHEAR, "H" INDICATES BENDING MOMENT, "H" INDICATES HORIZONTAL SHEAR, "A" INDICATES AXIAL TENSION/COMPRESSION, AND "T" INDICATES TORSION.	
H# A# T#	ALL LOADS PROVIDED ARE FACTORED FOR STRENGTH DESIGN IN UNITS OF KIP AND KIP-FEET, AND ALL LOADS SHALL BE CONSIDERED REVERSIBLE, UNO.	
MP#	MASONRY PILASTER TYPE.	SEE 8/S402
ML#	MASONRY LIMIT TYPE.	SEE 19/S401
BP#	STEEL BEARING PLATE TYPE.	SEE 4/S403
MC#	MOMENT CONNECTION TYPE.	SEE 9/SS02
VE#	VERTICAL FRAME TYPE.	S251
[SW#]	MASONRY SHEAR WALL TYPE.	SEE 1/S403

ABBREVIATIONS	
@	AT
CL	AND
Ø	DIAMETER
AB	ANCHOR BOLTS
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
ADH	ADHESIVE
AFF	ABOVE FINISHED FLOOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AWS	AMERICAN IRON AND STEEL INSTITUTE
ALT	ALTERNATE
ARCH	ARCHITECTS / ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWW	AMERICAN WELDING SOCIETY
B/ or BOT	BOTTOM
BTM	BOTTOM CHORD EXTENSION
BFB	BOTTOM FLANGE BRACE
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BM	BEAM
BOS	BOTTOM OF STEEL
BRC	BEARING
BTWN	BETWEEN
CANT	CANTILEVER
CJ	CONTROL JOINT
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONN	CONNECTION
CONST JT	CONSTRUCTION JOINT
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CTRD	CENTERED
d	NAILS (PENNY)
DBA	DEFORMED BAR ANCHOR
DEFL	DEFLECTION
DEPR	DEPRESSION / DEPRESSED
DET	DETAIL
DIAG	DIAGONAL
DIM	DIMENSION
DIST	DISTANCE
DWG(S)	DRAWING(S)
DWL(S)	DOWEL(S)
EA	EACH
EE	EACH END
EF	EACH FACE
EJ	EXPANSION JOINT
ELEV	ELEVATION
EMBED	EMBEDDED / EMBEDMENT
ENGR	ENGINEER
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FDN	FOUNDATION
FFE	FINISHED FLOOR ELEVATION
FOM	FACE OF MASONRY
FOW	FACE OF WALL
FS	FAK SIDE
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
HD	HEADED
HI	HIGH
HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION
INT	INTERIOR
JT	JOINT
K	KIP(S)
KB	KNEE BRACE
KSI	KIPS PER SQUARE INCH
LB	LONG BAR
LBS	POUNDS
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOW	LOW
LOC	LOCATION
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
LWC	LIGHT WEIGHT CONCRETE
MAX	MAXIMUM
MC	MOMENT CONNECTION
MCJ	MASONRY CONTROL JOINT
MECH	MECHANICAL
MFR	MANUFACTURER
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MOW	NUMBER OF WALL
MP	MASONRY PILASTER
No or #	NUMBER
NS	NEAR SIDE
NTS	NOT TO SCALE
NWC	NORMAL WEIGHT CONCRETE
OC	ON CENTER
OPNG	OPENING
OPP	OPPOSITE SIDE
PAP	POWDER ACTUATED FASTENER
PED	PEDESTAL
PL	PLATE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
P-T	POST-TENSIONED
REF	REFERENCE
REINF	REINFORCING
REQD	REQUIRED
SB	SHORT BAR
SCHD	SCHEDULE
SIM	SIMILAR
SOG	SLAB ON GRADE
SPEC(S)	SPECIFICATION(S)
SQ	SQUARE
STD	STANDARD
STIFF	STIFFENER
STRIR	STRUT(S)
STL	STEEL
STR	STRUCTURAL
T/	TOP
TCX	TOP CHORD EXTENSION
TOC	TOP CHORD CONCRETE
TOP	TOP OF FOOTING
TOS	TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
WWF	WELDED WIRE FABRIC
WP	WORK POINT

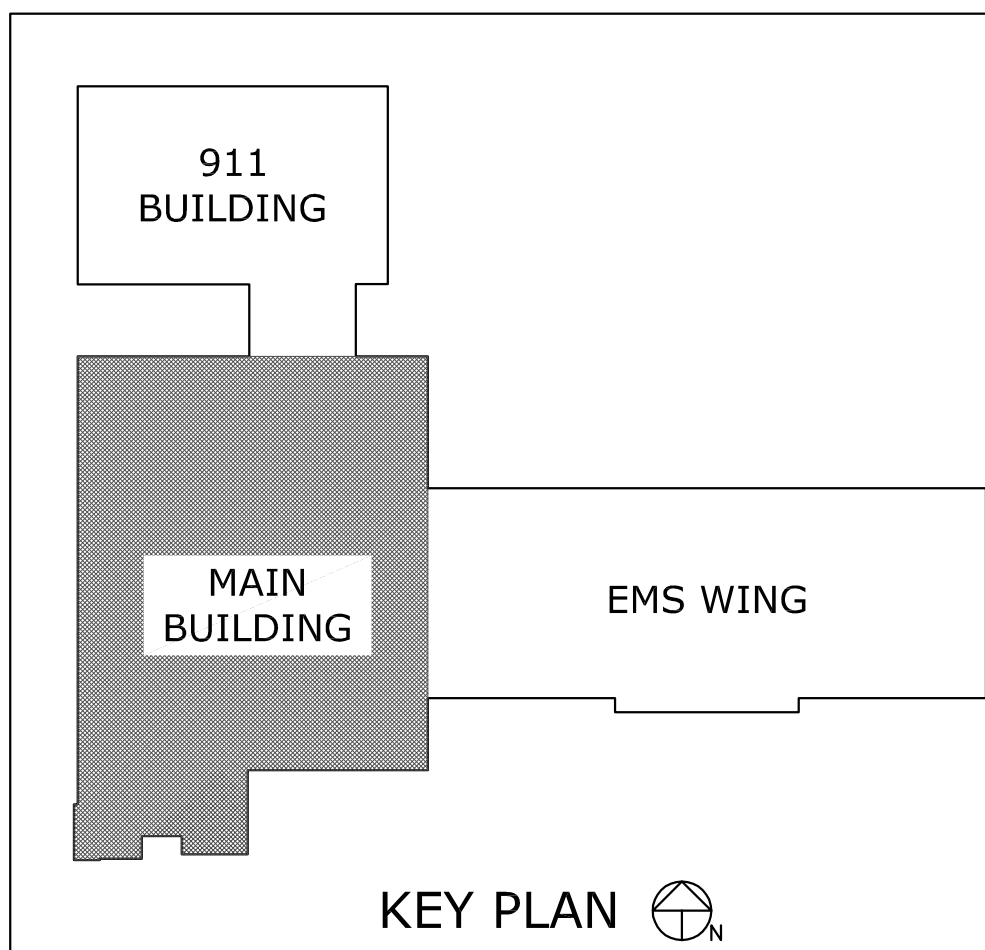
PARTIAL FLOOR PLAN - MECHANICAL

NUM.	DATE	DESCRIPTION:
1	12/17/20	REVISION 1
2	01/09/21	REV2/ADD1

SHEET NUMBER M101



1 PARTIAL FLOOR PLAN - MECHANICAL
1/8" = 1'-0"





SAMPSON COUNTY 911 & ES FACILITIES

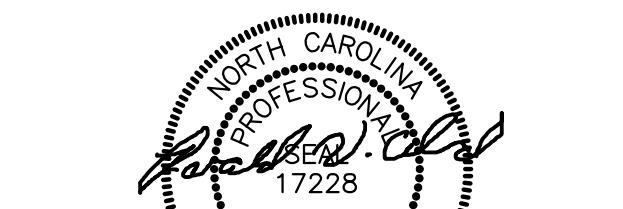
CLINTON,
NORTH CAROLINA

CONSTRUCTION DOCUMENTS

PARTIAL FLOOR PLANS - MECHANICAL

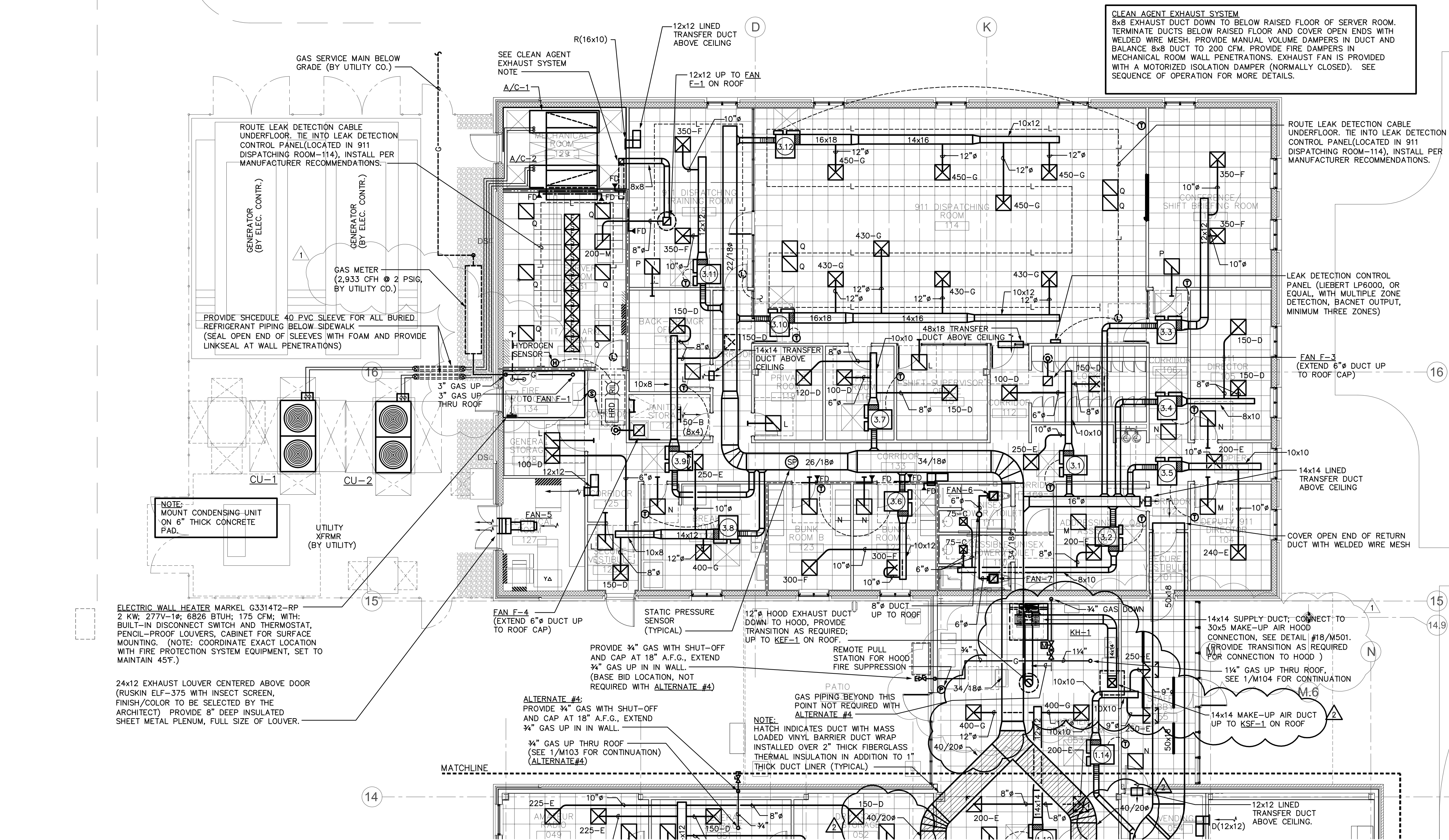
DATE	12.04.2020	
PROJECT NO	20003	
REVISIONS		
NUM.	DATE	DESCRIPTION:
1	12/17/20	REVISION 1
2	01/09/21	REV2/ADD1

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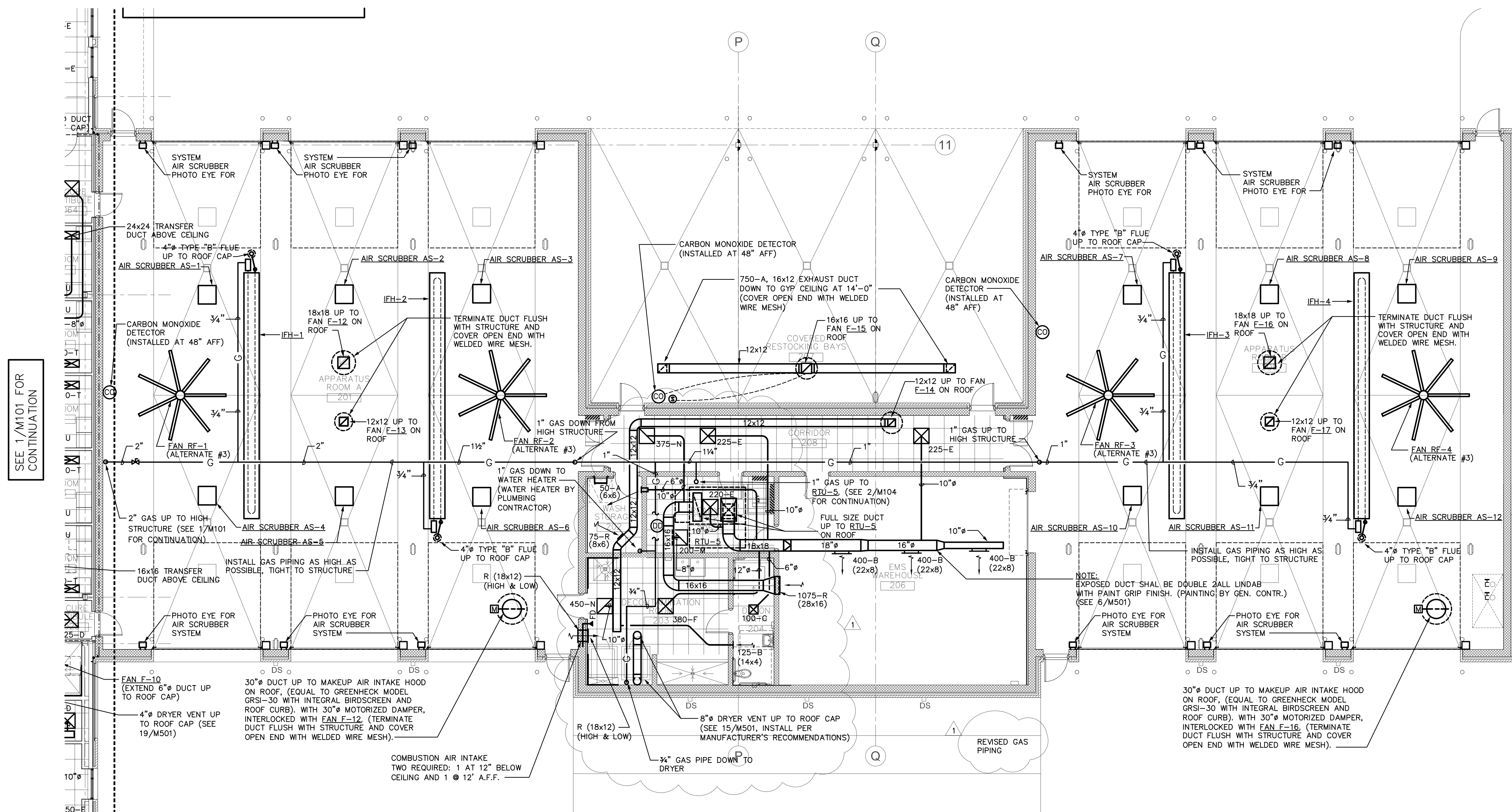
SEAL

SHEET NUMBER
M102

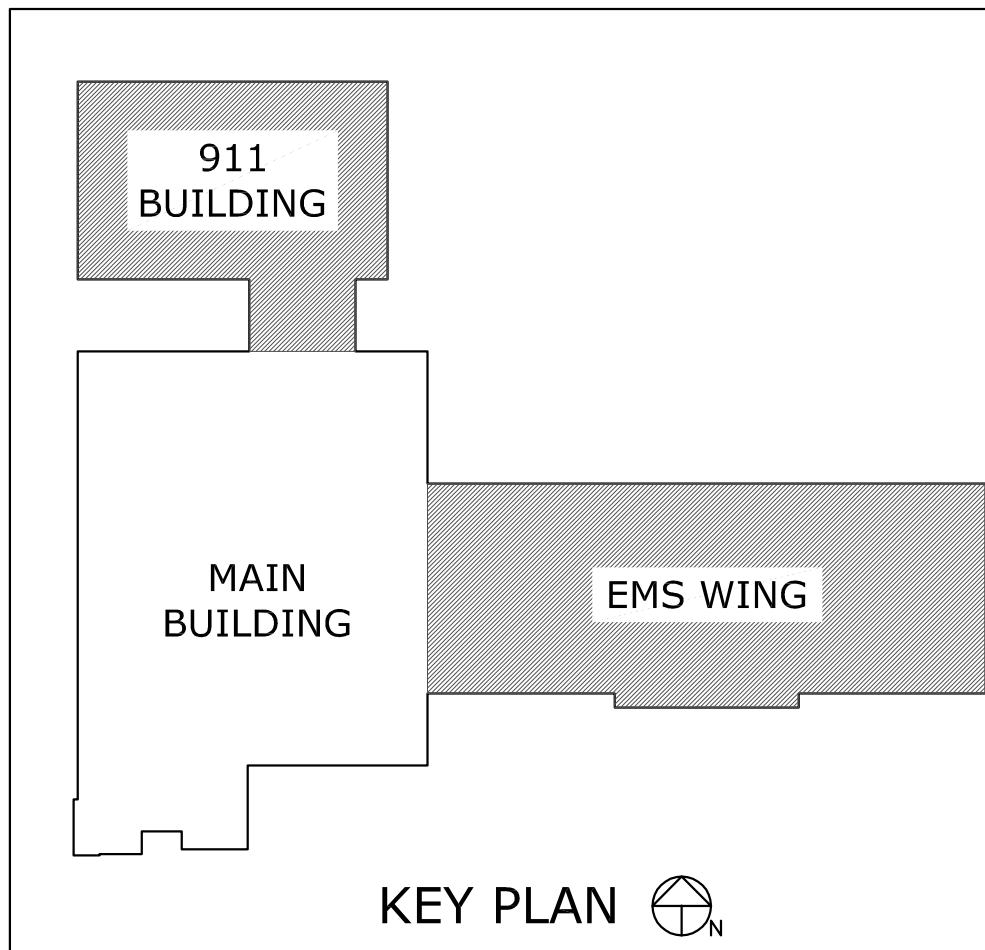


1 PARTIAL FLOOR PLAN - MECHANICAL
1/8" = 1'-0"

SEE 1/M101 FOR
CONTINUATION



2 PARTIAL FLOOR PLAN - MECHANICAL
1/8" = 1'-0"



KEY PLAN



SAMPSON COUNTY
911 & ES
FACILITIES

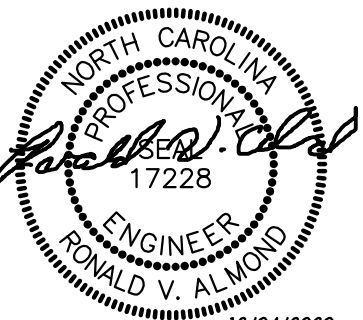
CLINTON,
NORTH CAROLINA

CONSTRUCTION
DOCUMENTS

PARTIAL ROOF
PLANS -
MECHANICAL

DATE	12.04.2020	
PROJECT NO	20003	
REVISIONS		
NUM.	DATE	DESCRIPTION:
1	12/17/20	REVISION 1
2	01/09/21	REV2/ADD1

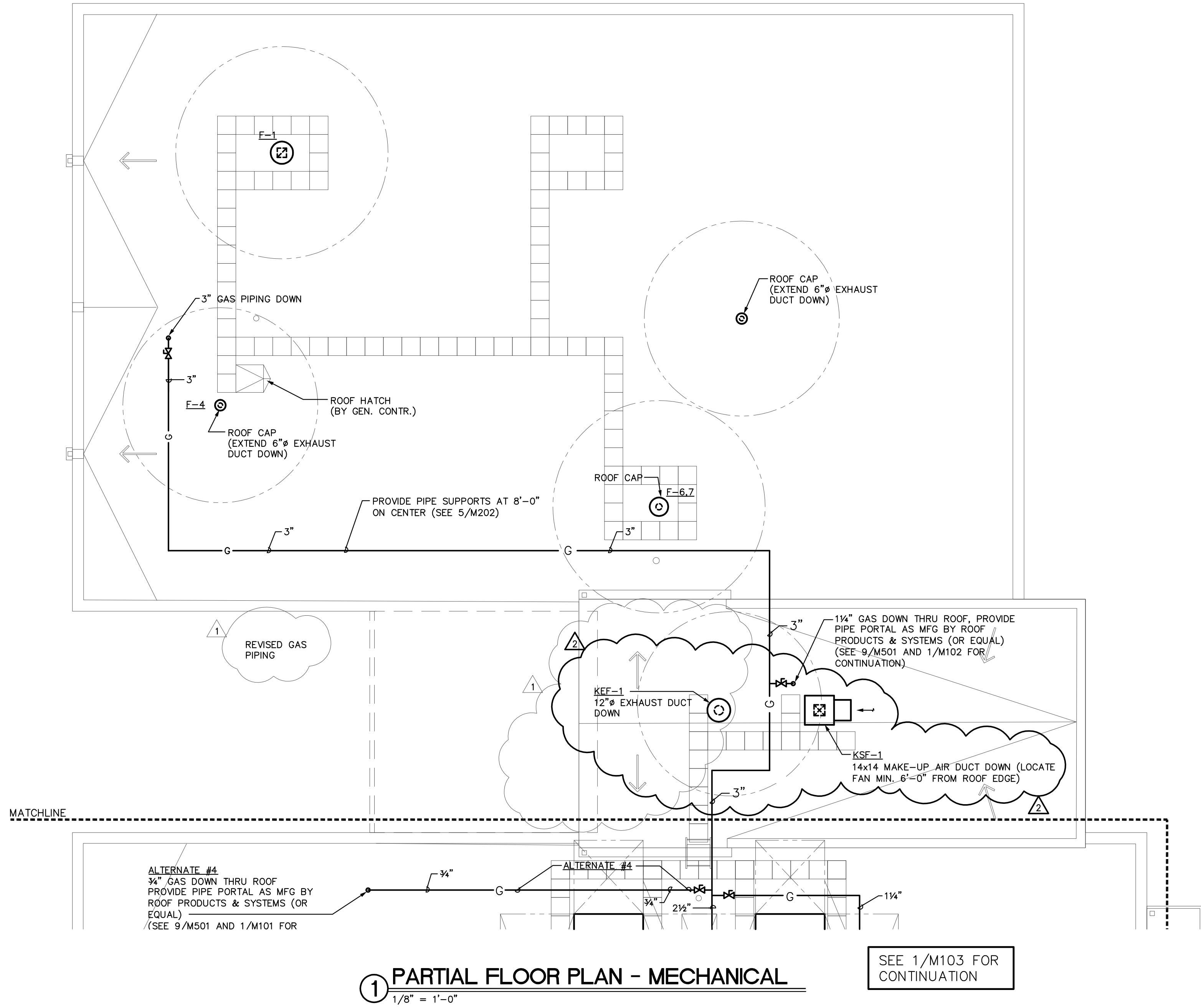
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SEAL

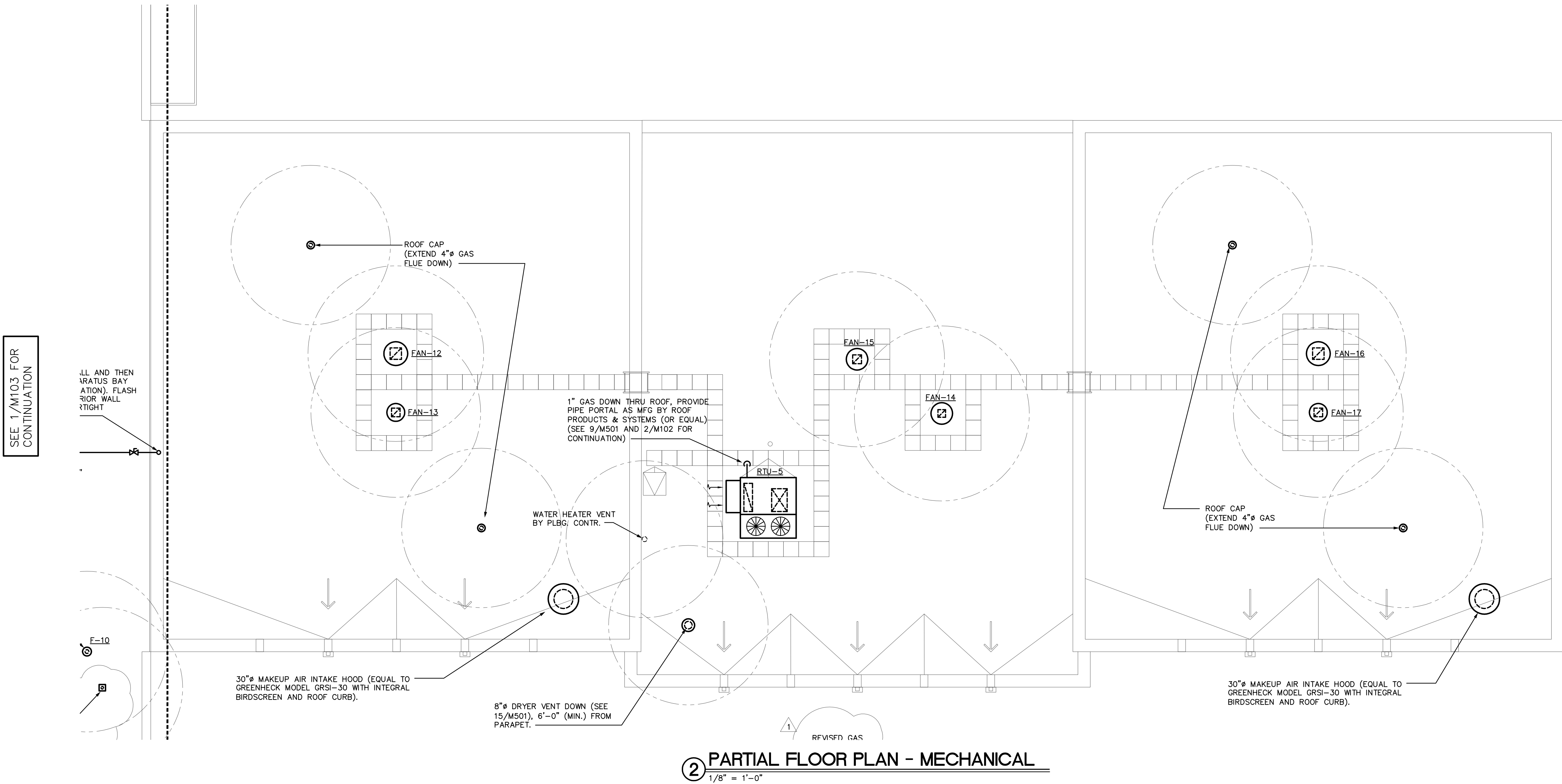
SHEET NUMBER

M104



1 PARTIAL FLOOR PLAN - MECHANICAL
1/8" = 1'-0"

SEE 1/M103 FOR
CONTINUATION



2 PARTIAL FLOOR PLAN - MECHANICAL
1/8" = 1'-0"

SEE 1/M103 FOR
CONTINUATION

KEY PLAN



SAMPSON COUNTY 911 & ES FACILITIES

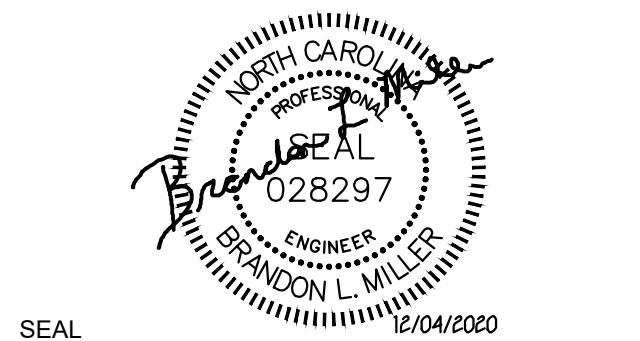
CLINTON,
NORTH CAROLINA

CONSTRUCTION
DOCUMENTS

SITE PLAN -
ELECTRICAL

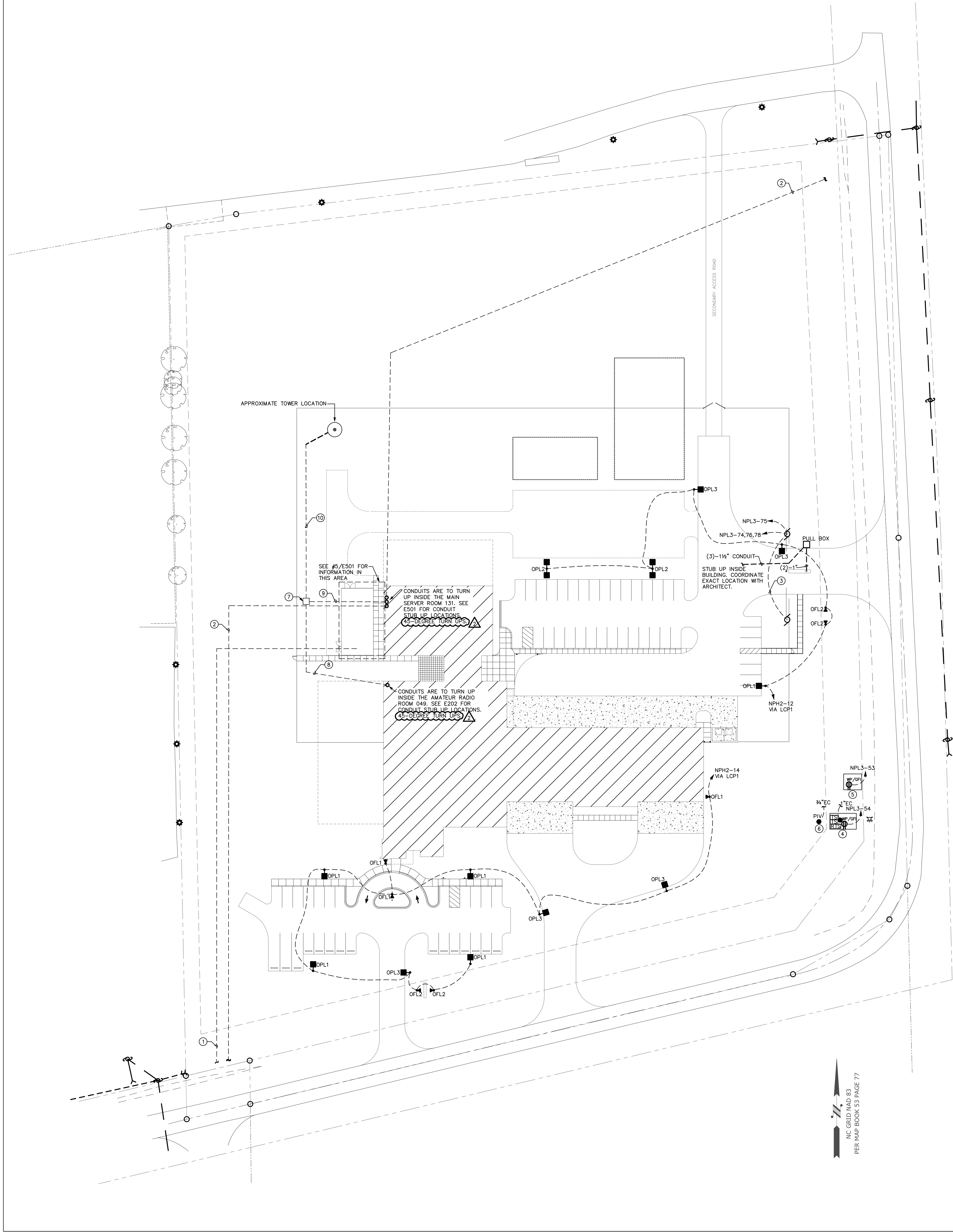
DATE	12.04.2020	
PROJECT NO	20003	
REVISIONS		
NUM.	DATE	DESCRIPTION:
1	12-17-2020	REVISION #1
2	01-09-2021	REV #2 / ADD1

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SEAL

SHEET NUMBER
E010



1 SITE PLAN - ELECTRICAL

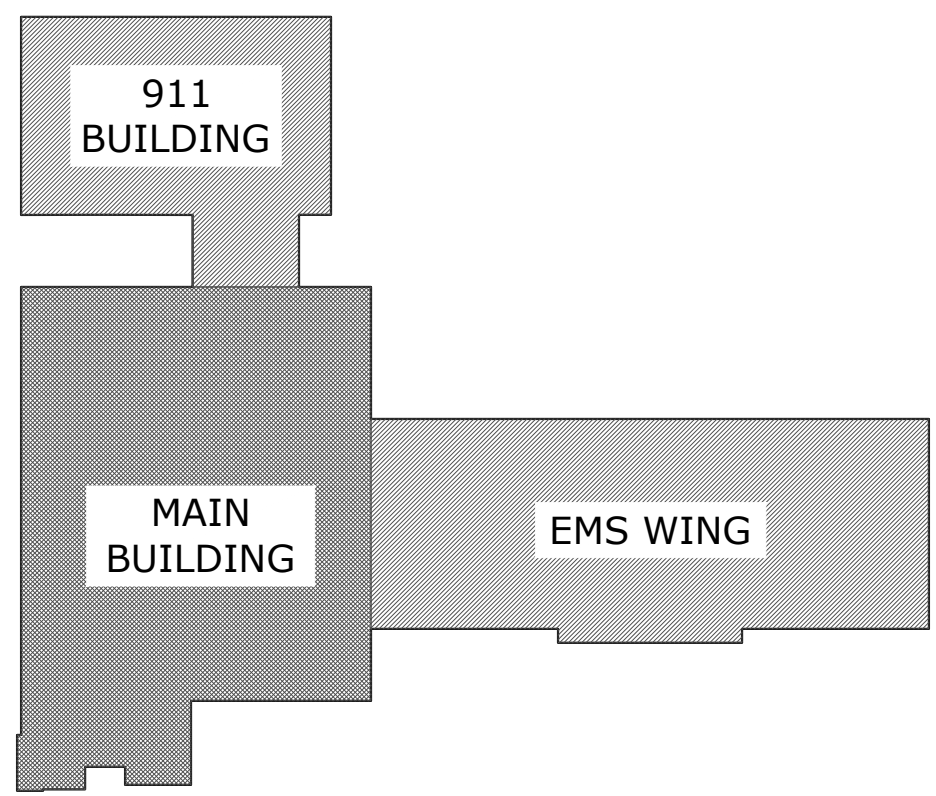
1" = 40'

GENERAL NOTES:

1. ALL LOW VOLTAGE CONDUIT RUNS SHALL HAVE HAND HOLES/PULL BOXES SUPPLIED AT 150' INTERVALS UNLESS OTHERWISE INDICATED BY LOCAL UTILITY. MINIMUM SIZE SHALL BE 36" X 36".
2. ALL SITE LIGHTING POLES SHALL BE MOUNTED ON A 30' POLE WITH A 3' CONCRETE BASE UNLESS OTHERWISE NOTED.

KEY NOTES:

1. PROVIDE (2)-6" CONDUIT FROM PAD MOUNTED TRANSFORMER TO DESIGNATED POINT AT EDGE OF PROPERTY FOR LOCAL POWER UTILITY USE. CONDUIT LOCATION, SIZE, AND BENDING RADIUS SHALL BE COORDINATED WITH UTILITY BEFORE INSTALLATION. PULLBOXES AS REQUIRED BY CODE/LOCAL UTILITY. E.C. TO PROVIDE UP TO 150' OF ADDITIONAL (2)-6" CONDUIT AND COMPLETE INSTALLATION BASED ON UTILITY COORDINATION.
2. PROVIDE (4)-4" CONDUIT FROM MAIN HEAD END ROOM TO PROPERTY LINE FOR TELEPHONE SERVICE. CONDUIT LOCATION, SIZE, AND BENDING RADIUS SHALL BE COORDINATED WITH UTILITY BEFORE INSTALLATION.E.C. TO PROVIDE UP TO 150' OF ADDITIONAL (2)-4" CONDUIT AND COMPLETE INSTALLATION BASED ON UTILITY COORDINATION.
3. PROVIDE CONDUIT FOR GATE MOTOR POWER AND ELECTRIC LOCK POWER BETWEEN EACH GATE MOTOR CONTROLLER.
4. FIRE SERVICE BACKFLOW, PROVIDE 1" CONDUIT TO FACP FOR TAMPER SWITCHES. COORDINATE EXACT QUANTITY AND LOCATION WITH CIVIL PLANS.
5. DOMESTIC SERVICE BACKFLOW, COORDINATE EXACT LOCATION WITH CIVIL PLANS.
6. POST INDICATOR VALVE, 3/4" TO FACP. COORDINATE EXACT LOCATION WITH CIVIL PLANS.
7. 3X3" TELECOMM PULLBOX.
8. (2)-4" EC FROM THE AMATEUR RADIO ROOM TO THE PULLBOX.
9. (2)-4" EC FROM THE SERVER ROOM TO THE PULLBOX.
10. (4)-4" EC FROM THE PULLBOX TO THE ANTENNA.



KEY PLAN



SAMPSON COUNTY 911 & ES FACILITIES

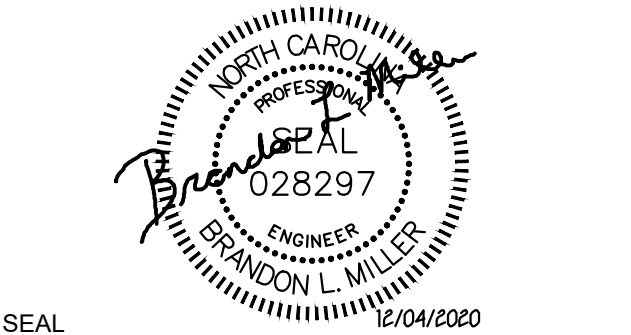
CLINTON,
NORTH CAROLINA

CONSTRUCTION
DOCUMENTS

FLOOR PLAN - SITE GROUNDING

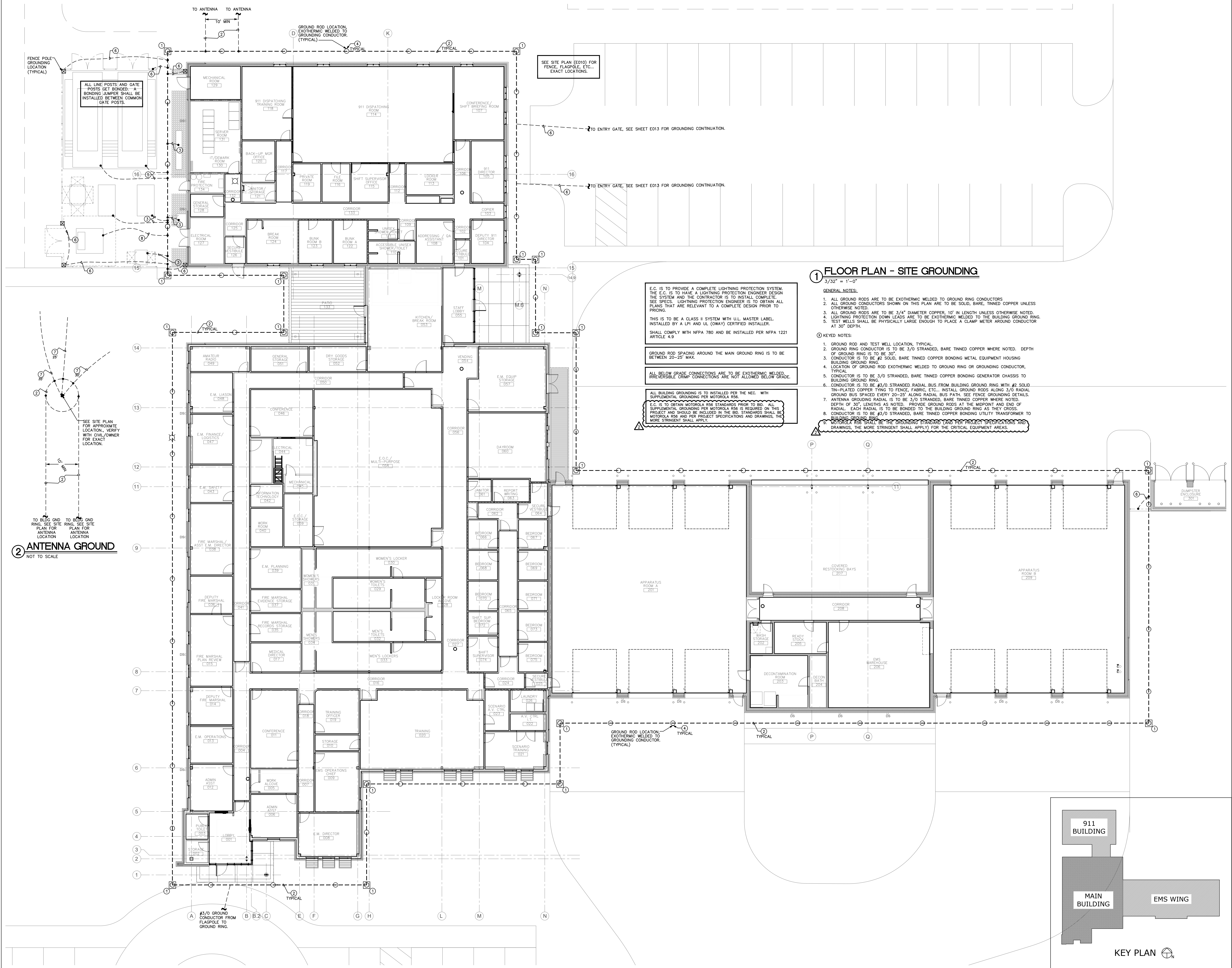
DATE	12.04.2020	
PROJECT NO	20003	
REVISIONS		
NUM.	DATE	DESCRIPTION:
2	01-09-2021	REV #2 / ADD1

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SEAL

SHEET NUMBER
E011





SAMPSON COUNTY
911 & ES
FACILITIES

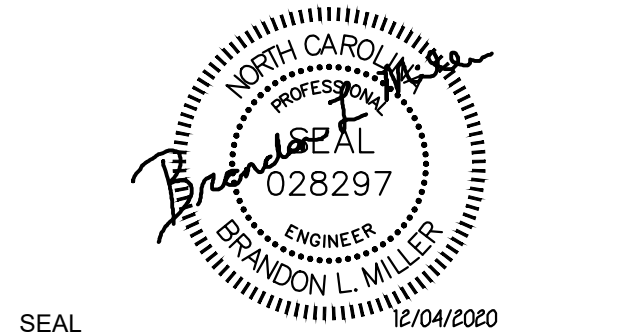
CLINTON,
NORTH CAROLINA

CONSTRUCTION
DOCUMENTS

SITE PLAN -
GROUNDING

DATE	12.04.2020	
PROJECT NO	20003	
REVISIONS		
NUM.	DATE	DESCRIPTION:
<div>2</div>	01-09-2021	REV #2 / ADD1

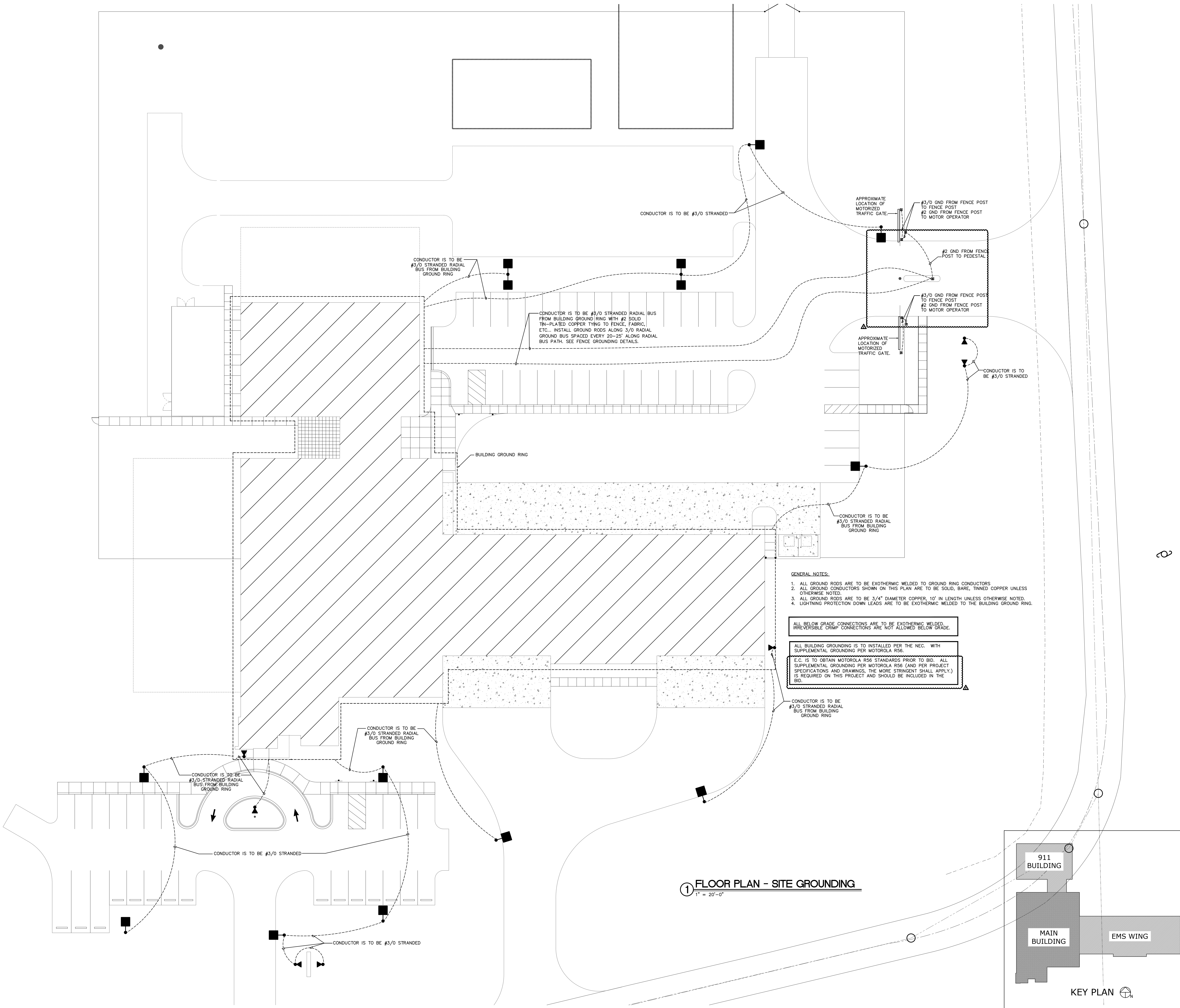
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SEAL

E013

SHEET NUMBER



- GENERAL NOTES:
1. ALL GROUND RODS ARE TO BE EXOTHERMIC WELDED TO GROUND RING CONDUCTORS.
 2. ALL GROUND CONDUCTORS SHOWN ON THIS PLAN ARE TO BE SOLID, BARE, TINNED COPPER UNLESS OTHERWISE NOTED.
 3. ALL GROUND RODS ARE TO BE 3/4" DIAMETER COPPER, 10' IN LENGTH UNLESS OTHERWISE NOTED.
 4. LIGHTNING PROTECTION DOWN LEADS ARE TO BE EXOTHERMIC WELDED TO THE BUILDING GROUND RING.

ALL BELOW GRADE CONNECTIONS ARE TO BE EXOTHERMIC WELDED. IRREVERSIBLE CRIMP CONNECTIONS ARE NOT ALLOWED BELOW GRADE.

ALL BUILDING GROUNDING IS TO BE INSTALLED PER THE NEC. WITH SUPPLEMENTAL GROUNDING PER MOTOROLA R56.

E.C. IS TO OBTAIN MOTOROLA R56 STANDARDS PRIOR TO BID. ALL SUPPLEMENTAL GROUNDING PER MOTOROLA R56 (AND PER PROJECT SPECIFICATIONS AND DRAWINGS, THE MORE STRINGENT SHALL APPLY.) IS REQUIRED ON THIS PROJECT AND SHOULD BE INCLUDED IN THE BID.

1 FLOOR PLAN - SITE GROUNDING
1" = 20'-0"

KEY PLAN



SAMPSON COUNTY 911 & ES FACILITIES

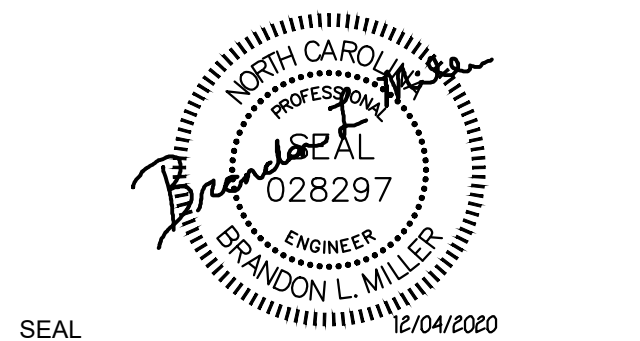
CLINTON,
NORTH CAROLINA

CONSTRUCTION
DOCUMENTS

GROUNDING
DETAILS

DATE	12.04.2020	
PROJECT NO	20003	
REVISIONS		
NUM.	DATE	DESCRIPTION:
1	12-17-2020	REVISION #1
2	01-09-2021	REV #2 / ADD1

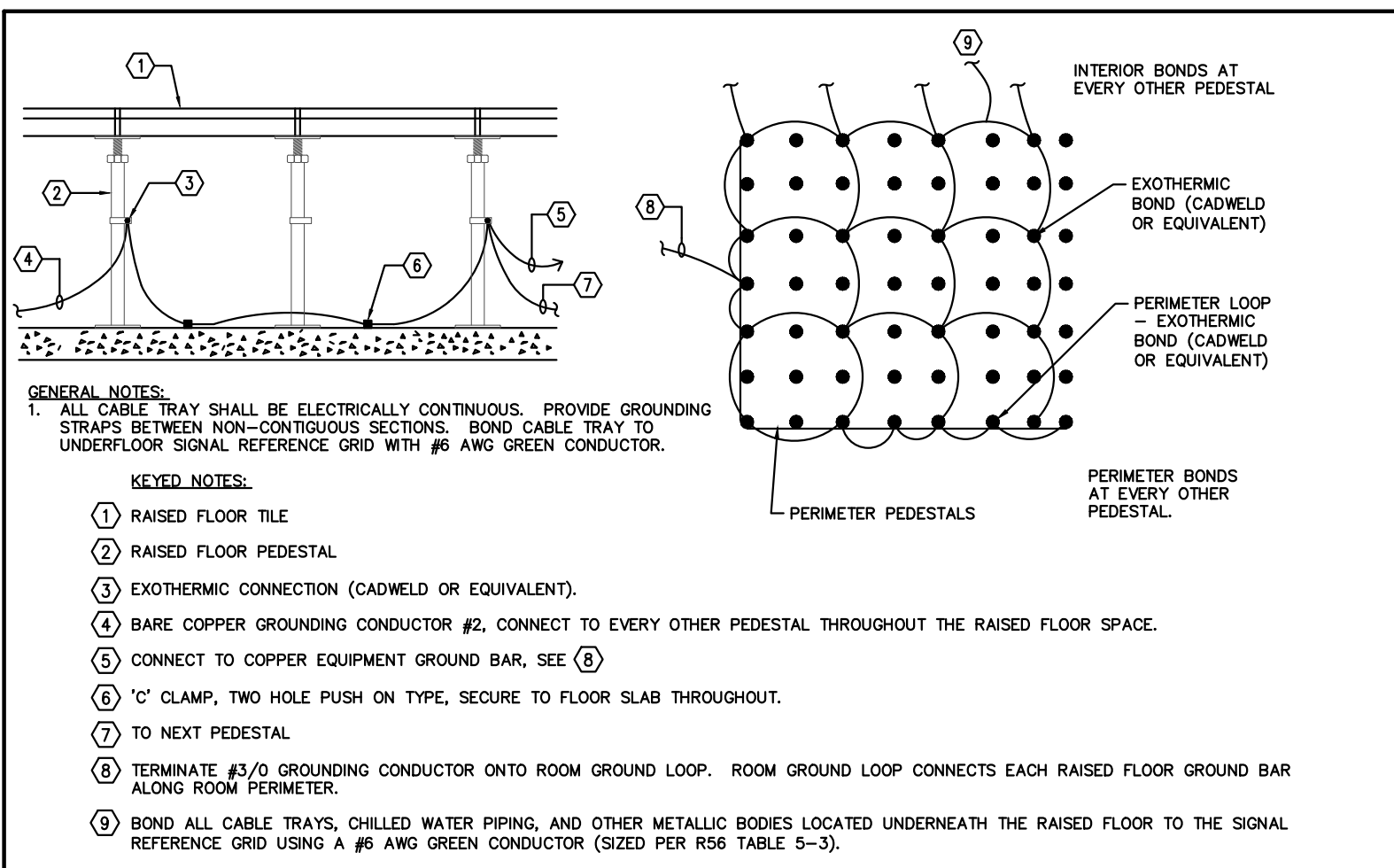
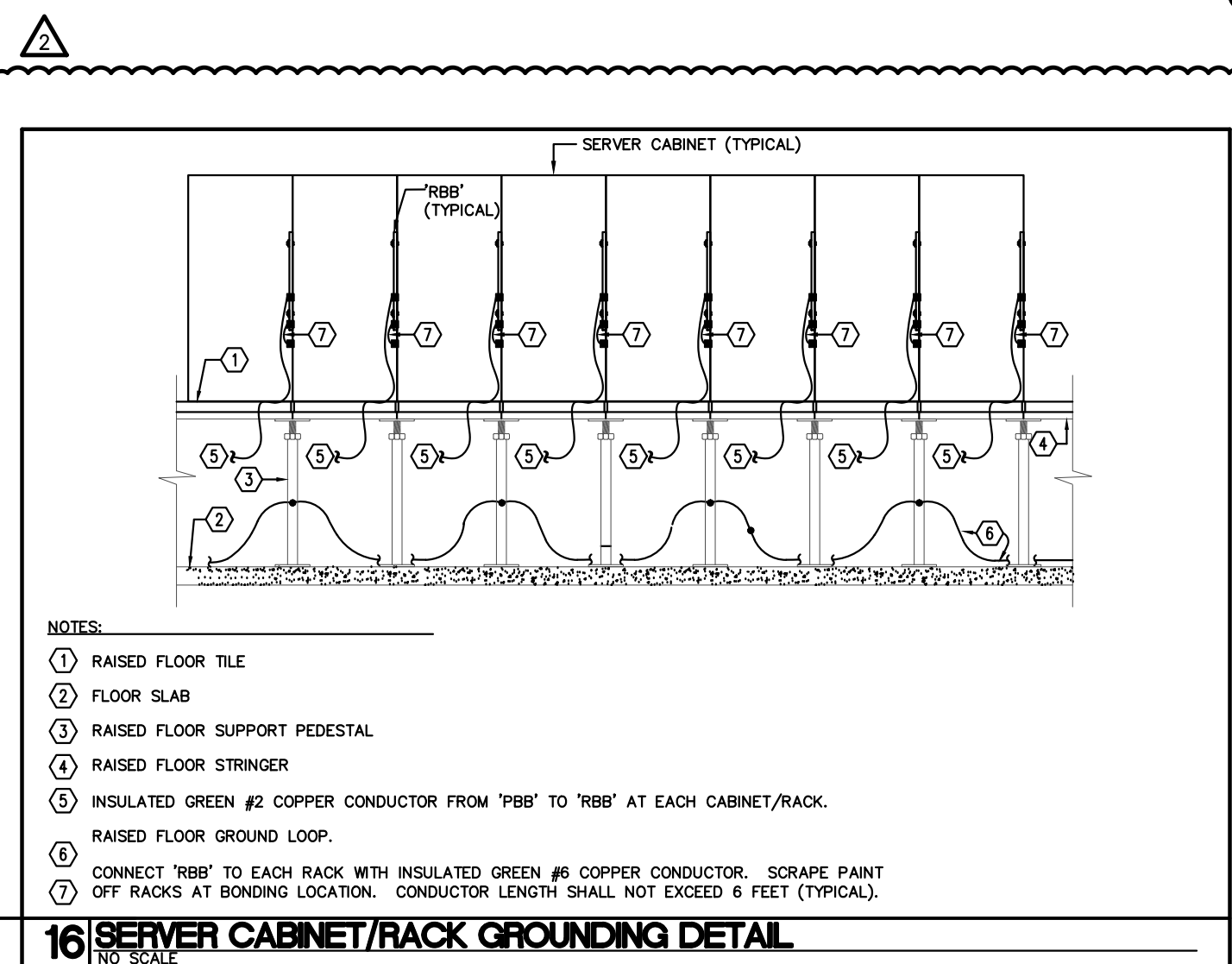
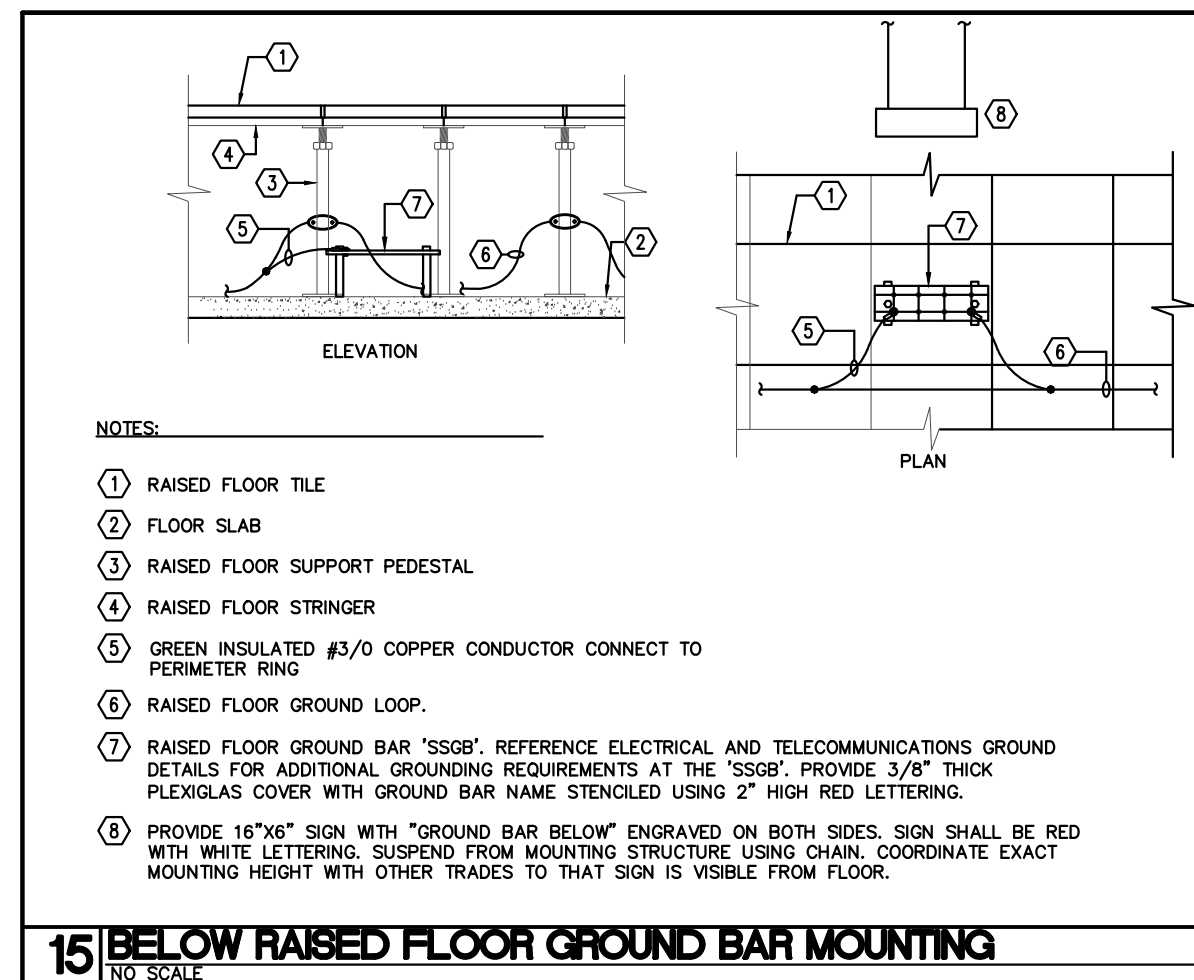
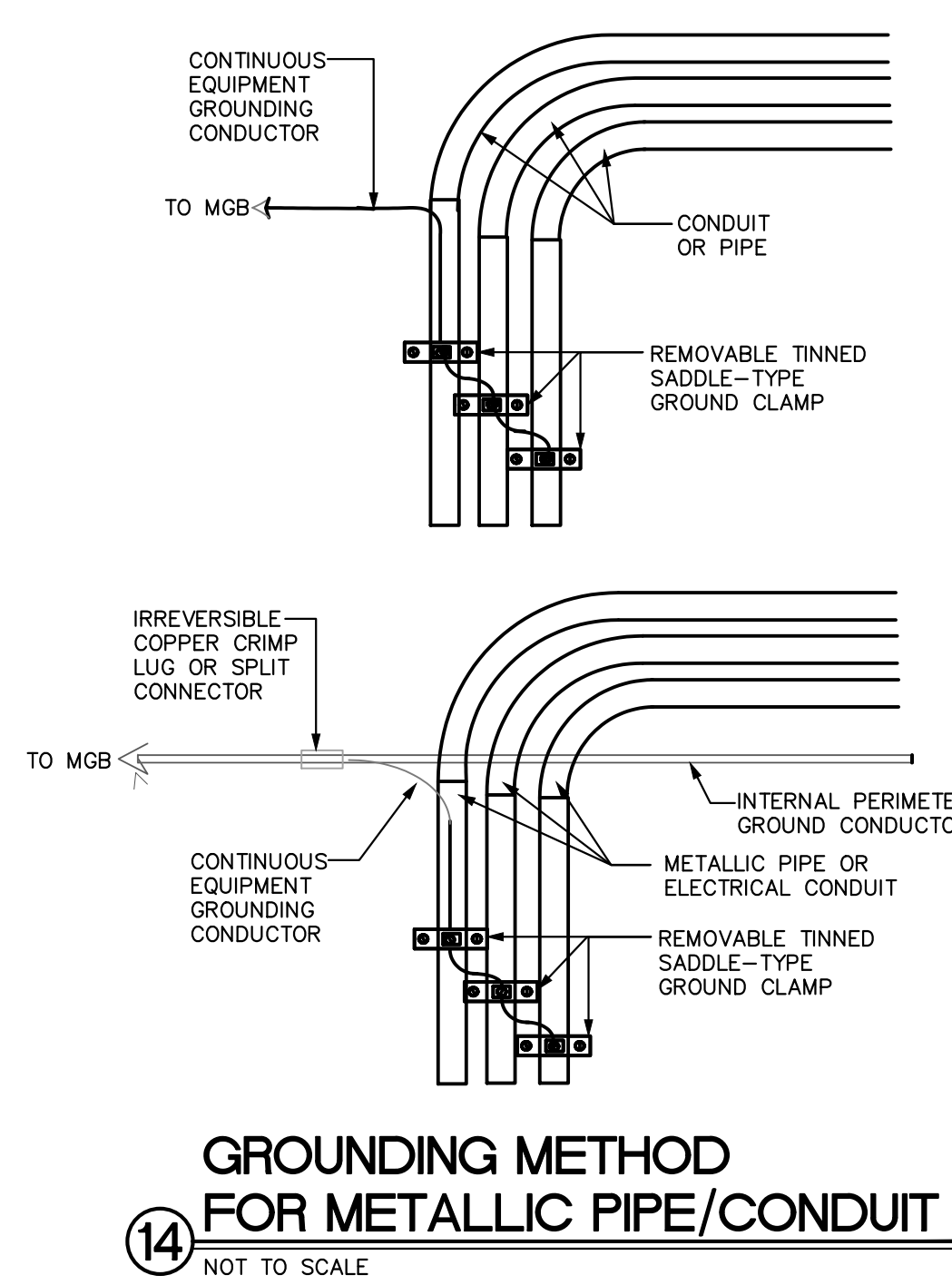
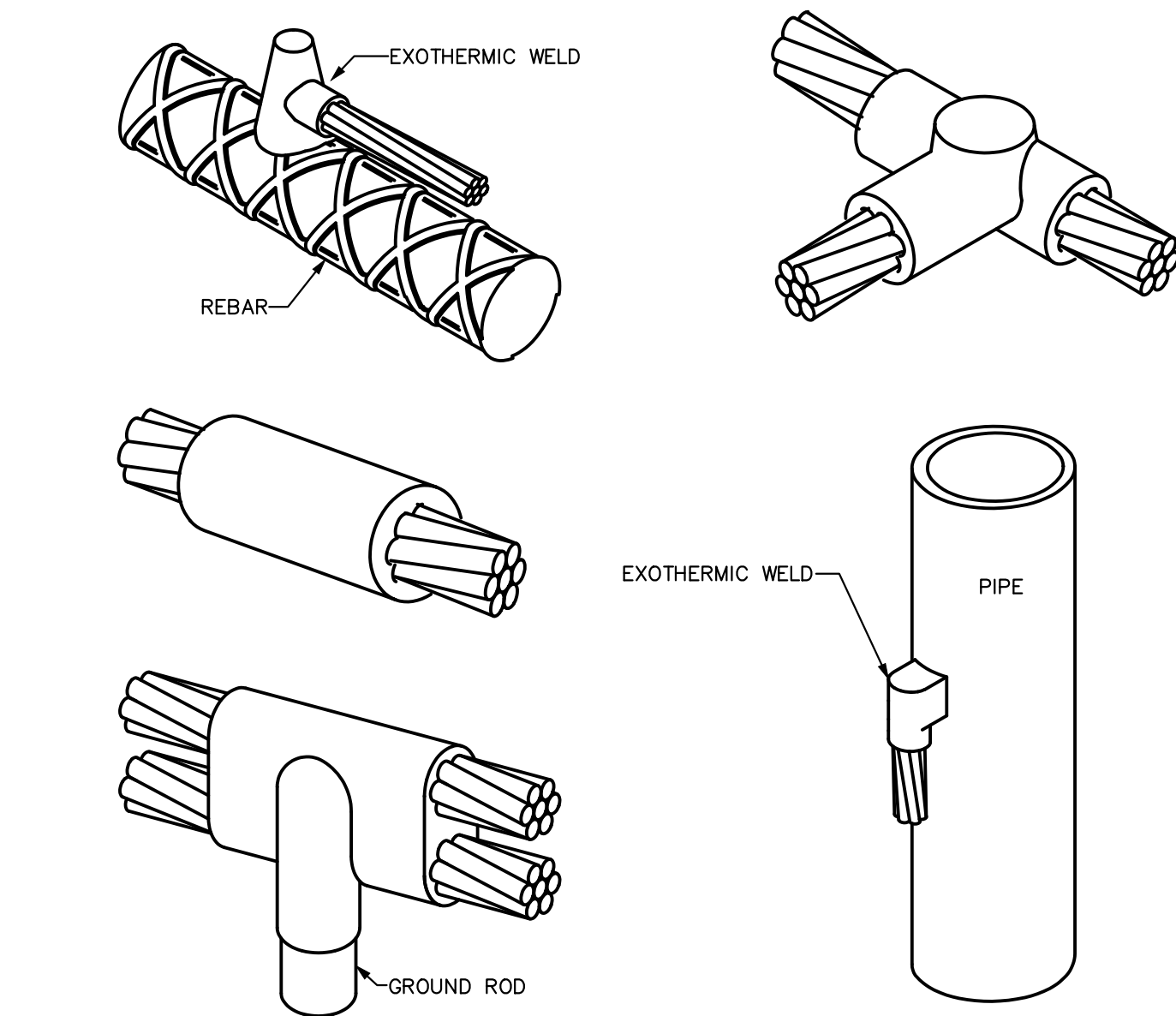
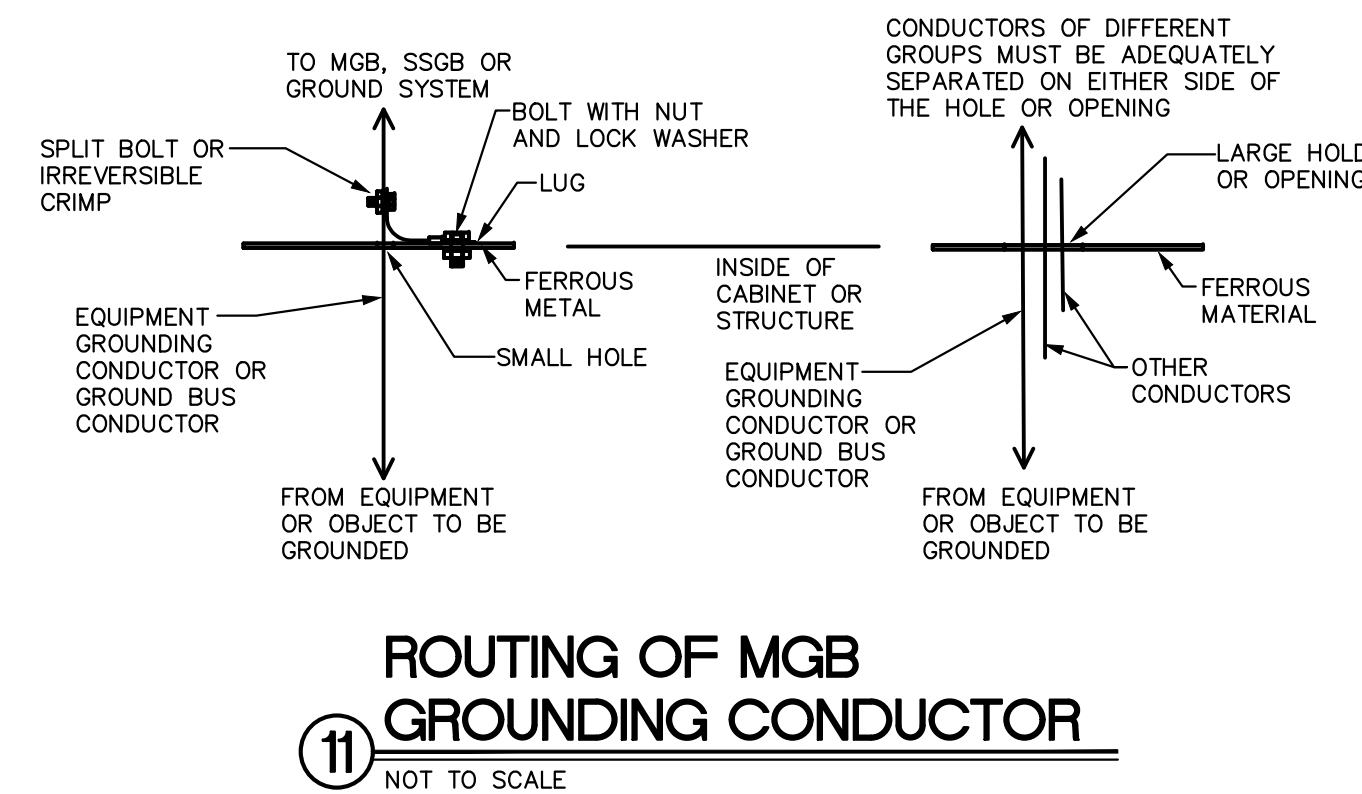
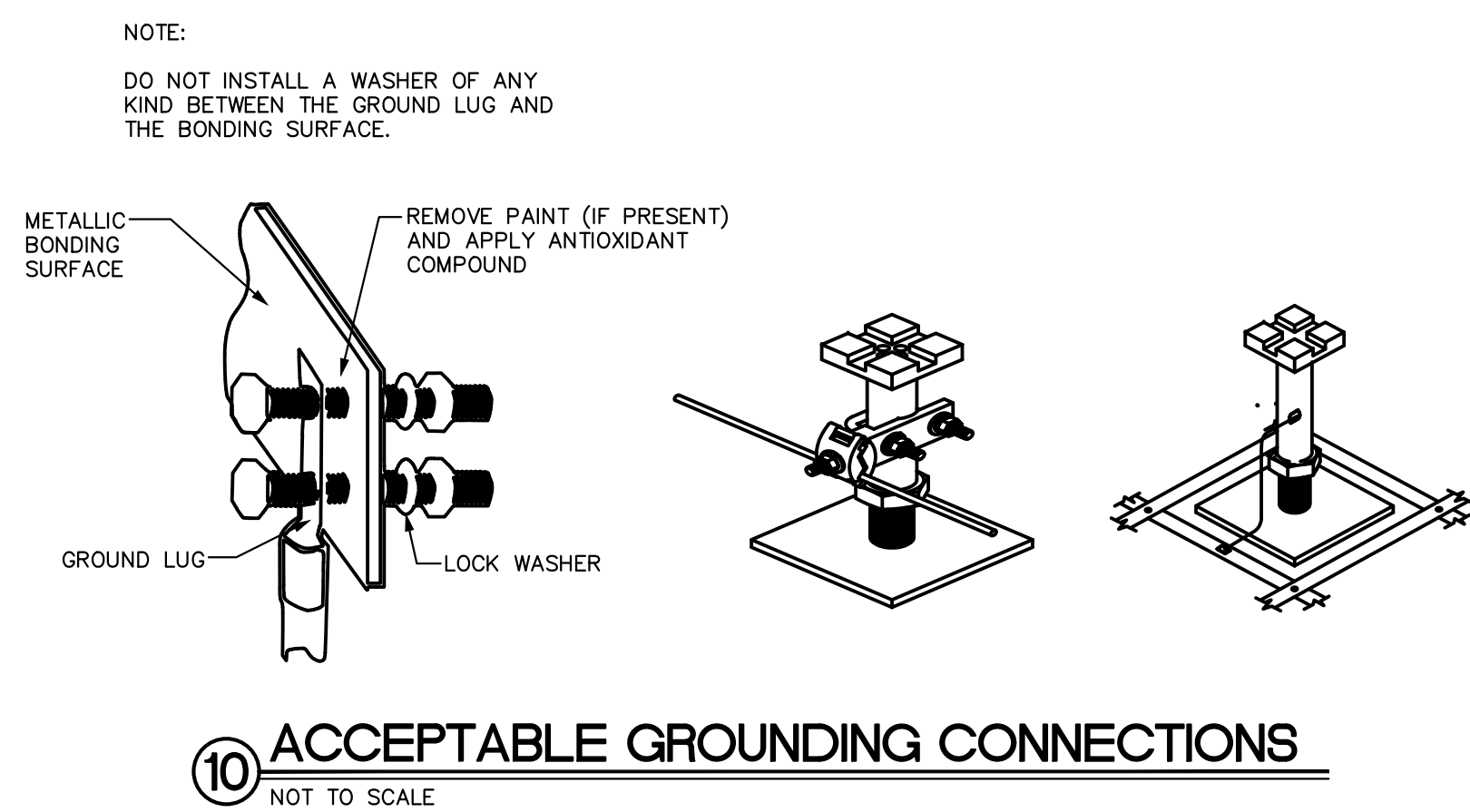
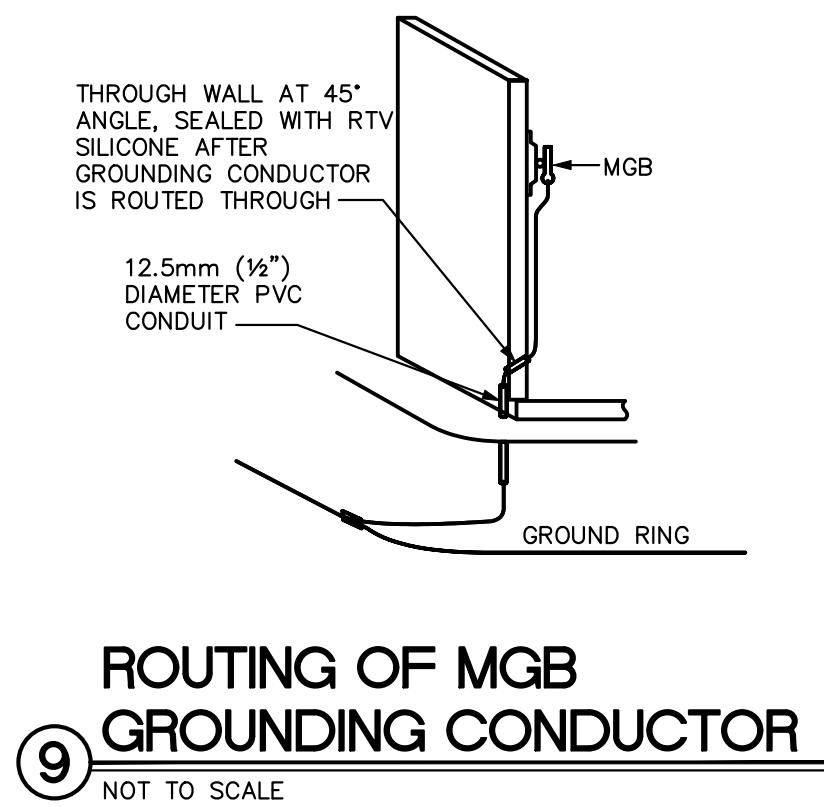
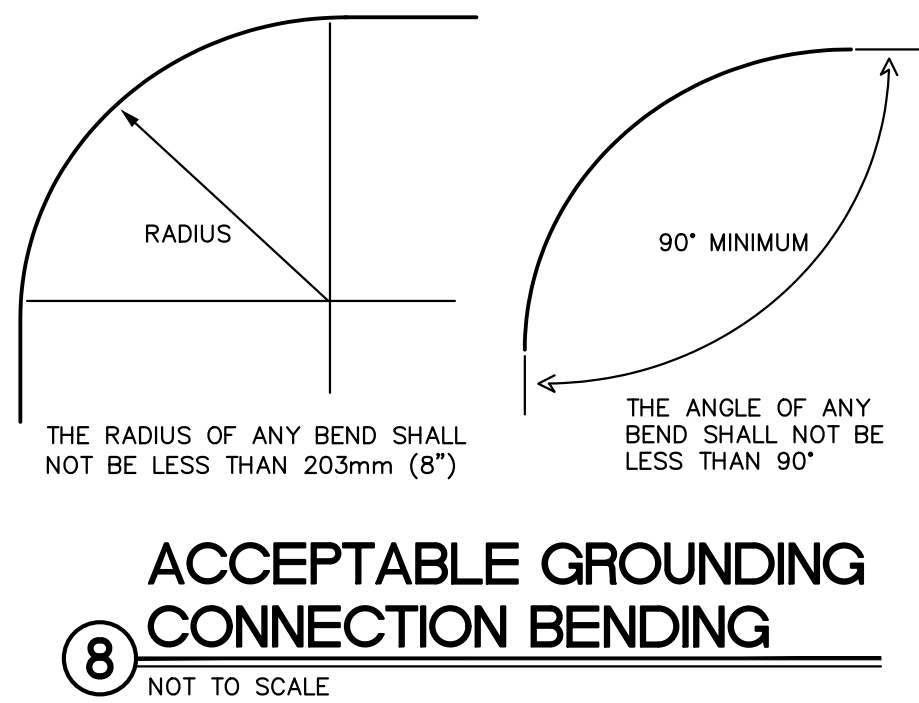
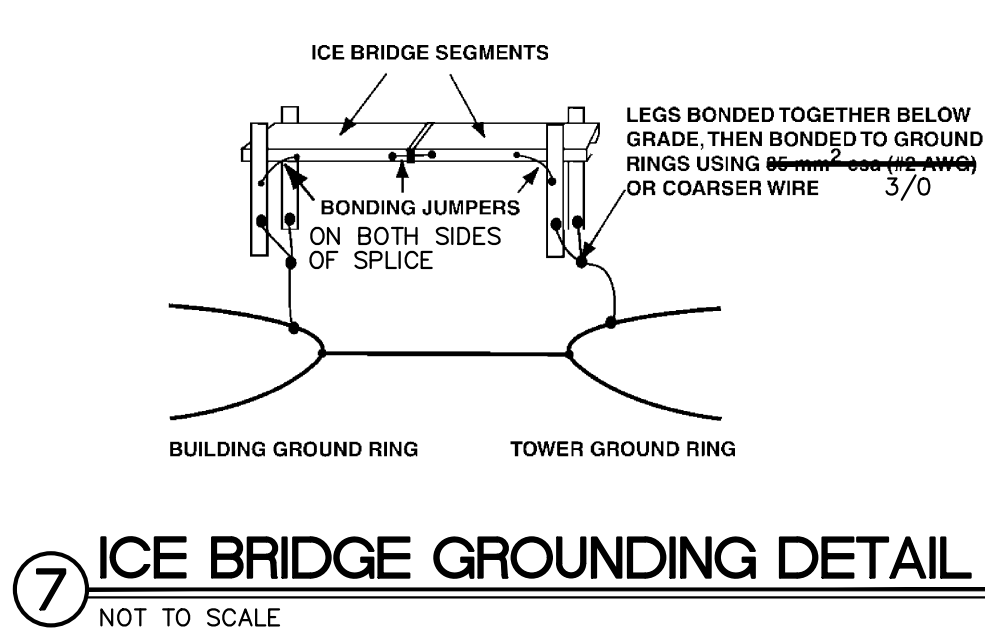
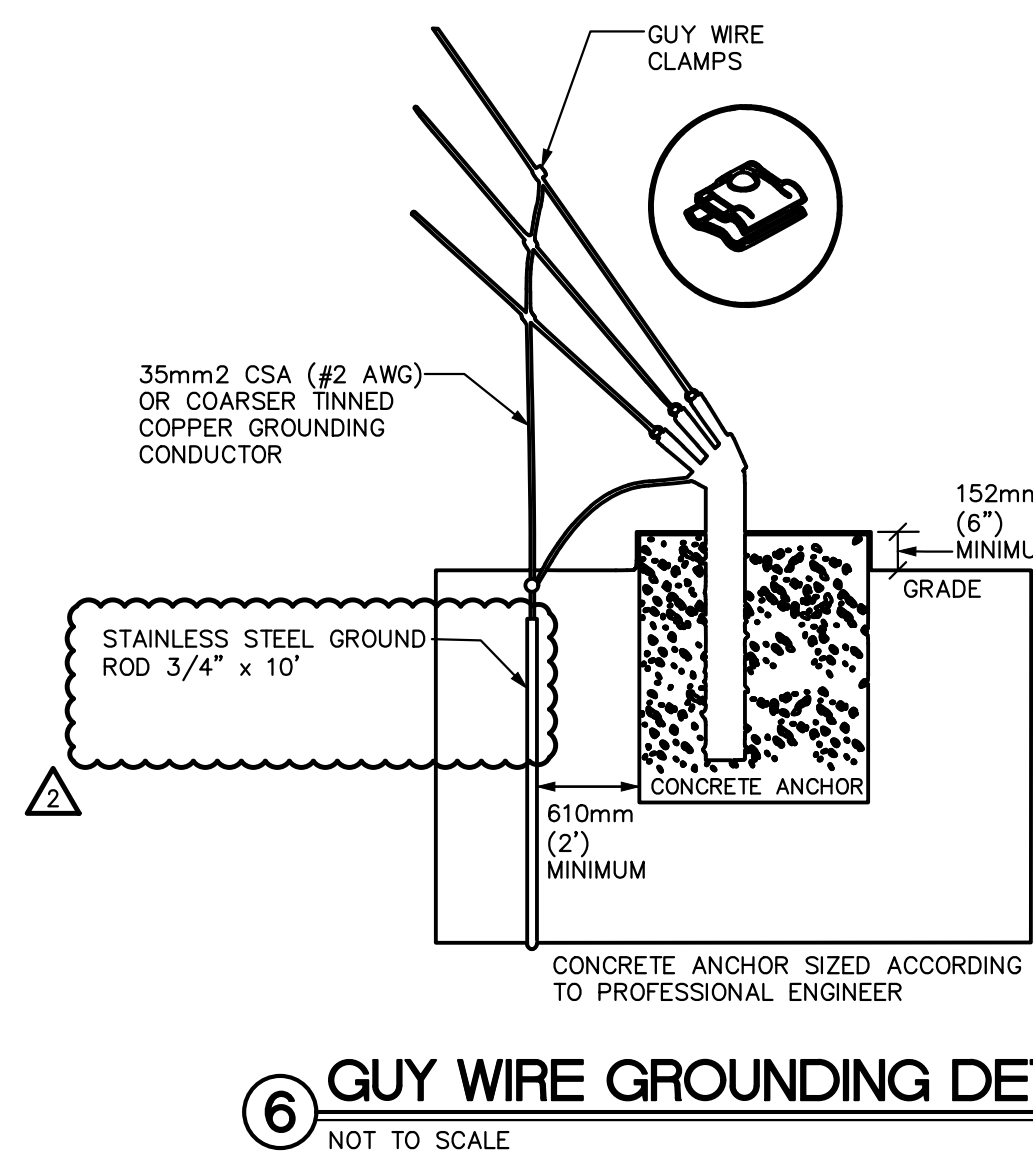
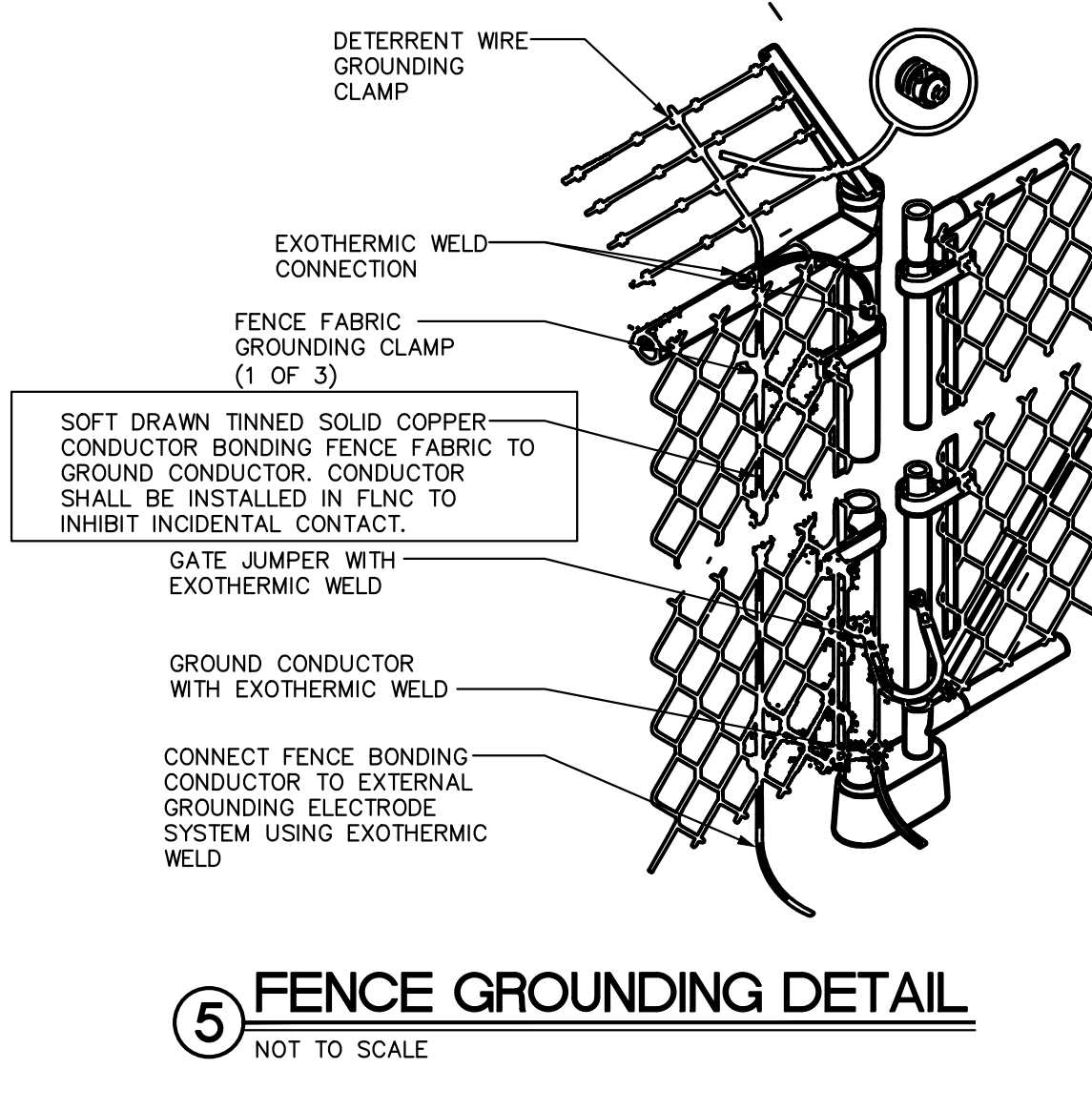
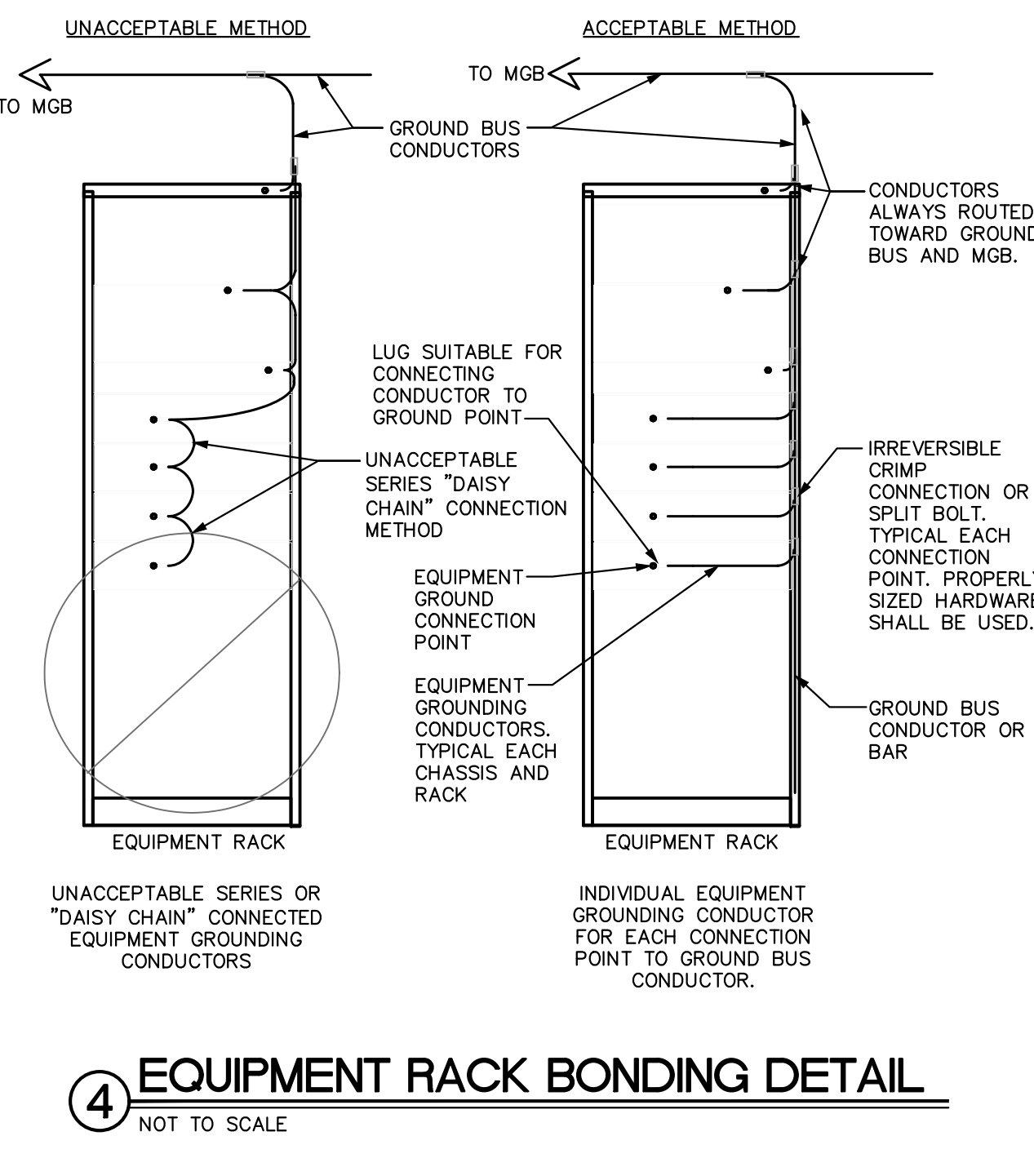
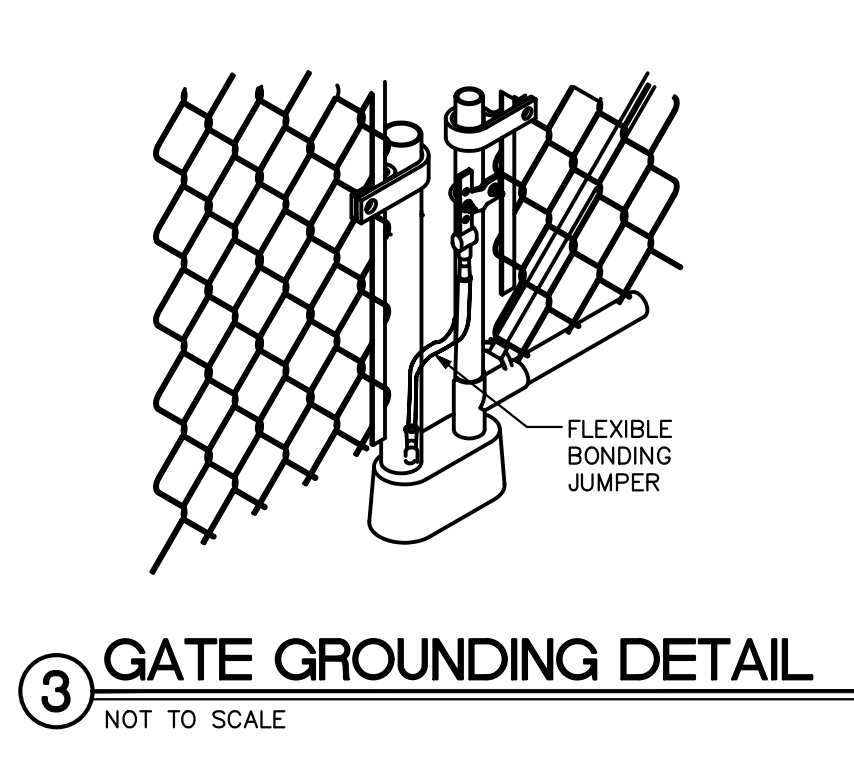
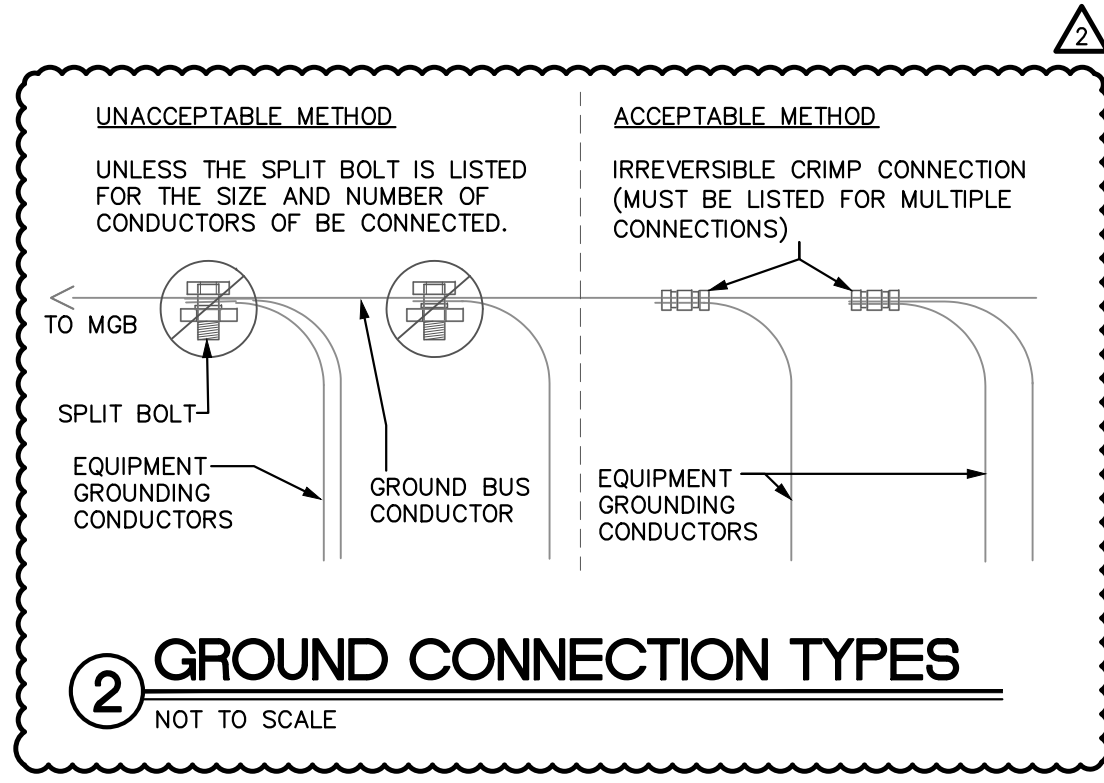
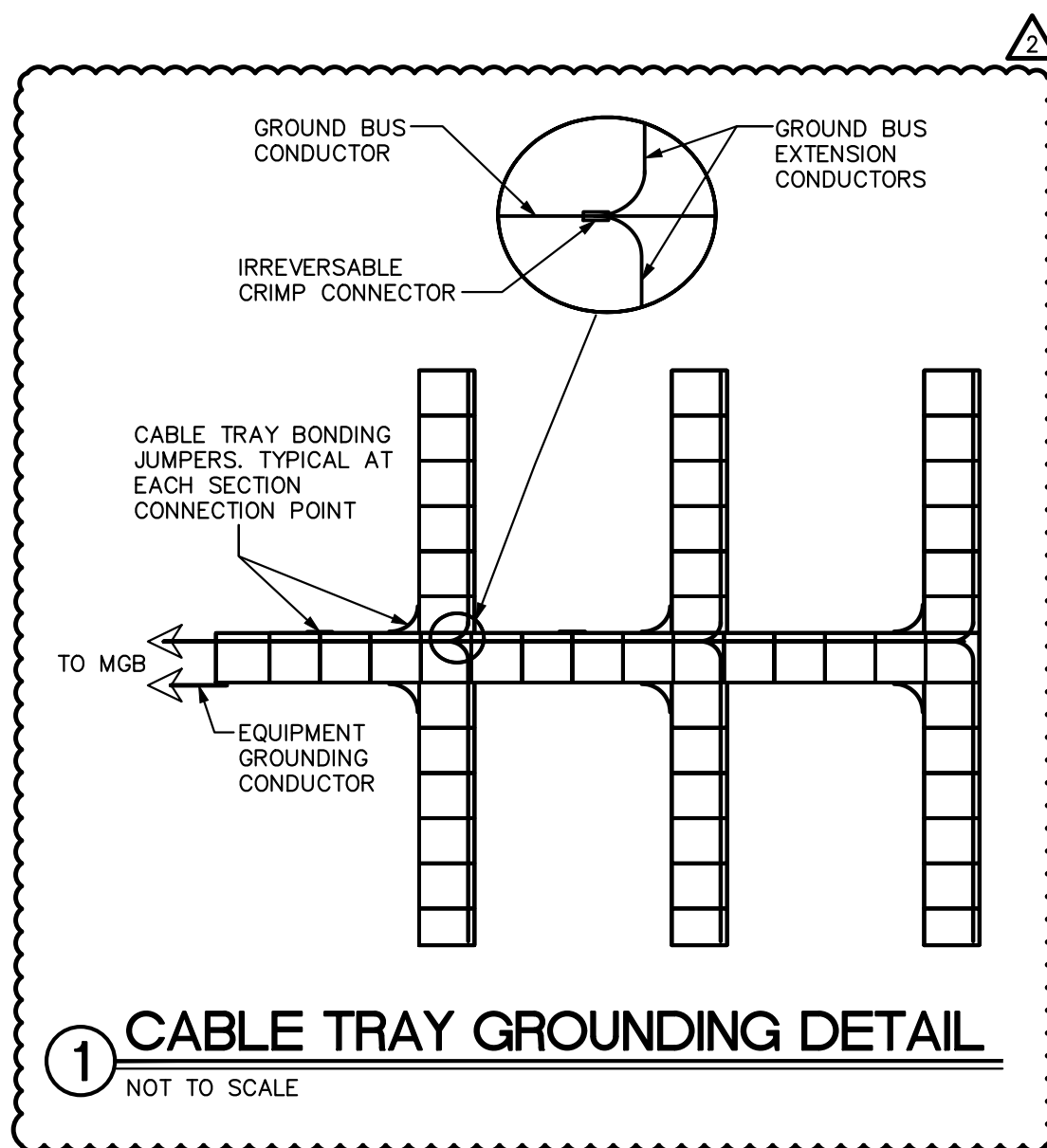
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SEAL

SHEET NUMBER

E014





SAMPSON COUNTY
911 & ES
FACILITIES

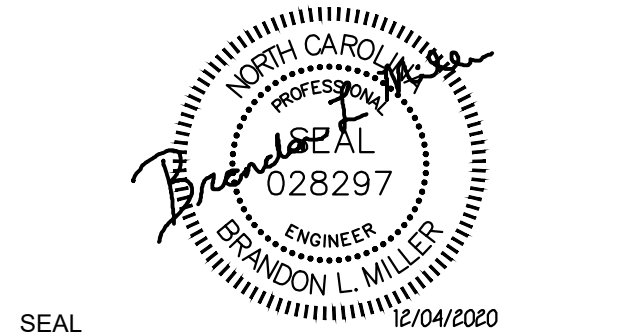
CLINTON,
NORTH CAROLINA

CONSTRUCTION
DOCUMENTS

AREA 1 AND AREA 2
EQUIPMENT
CONNECTIONS ROOF
PLANS

DATE	12.04.2020	
PROJECT NO	20003	
REVISIONS		
NUM.	DATE	DESCRIPTION:
2	01-09-2021	REV #2 / ADD1

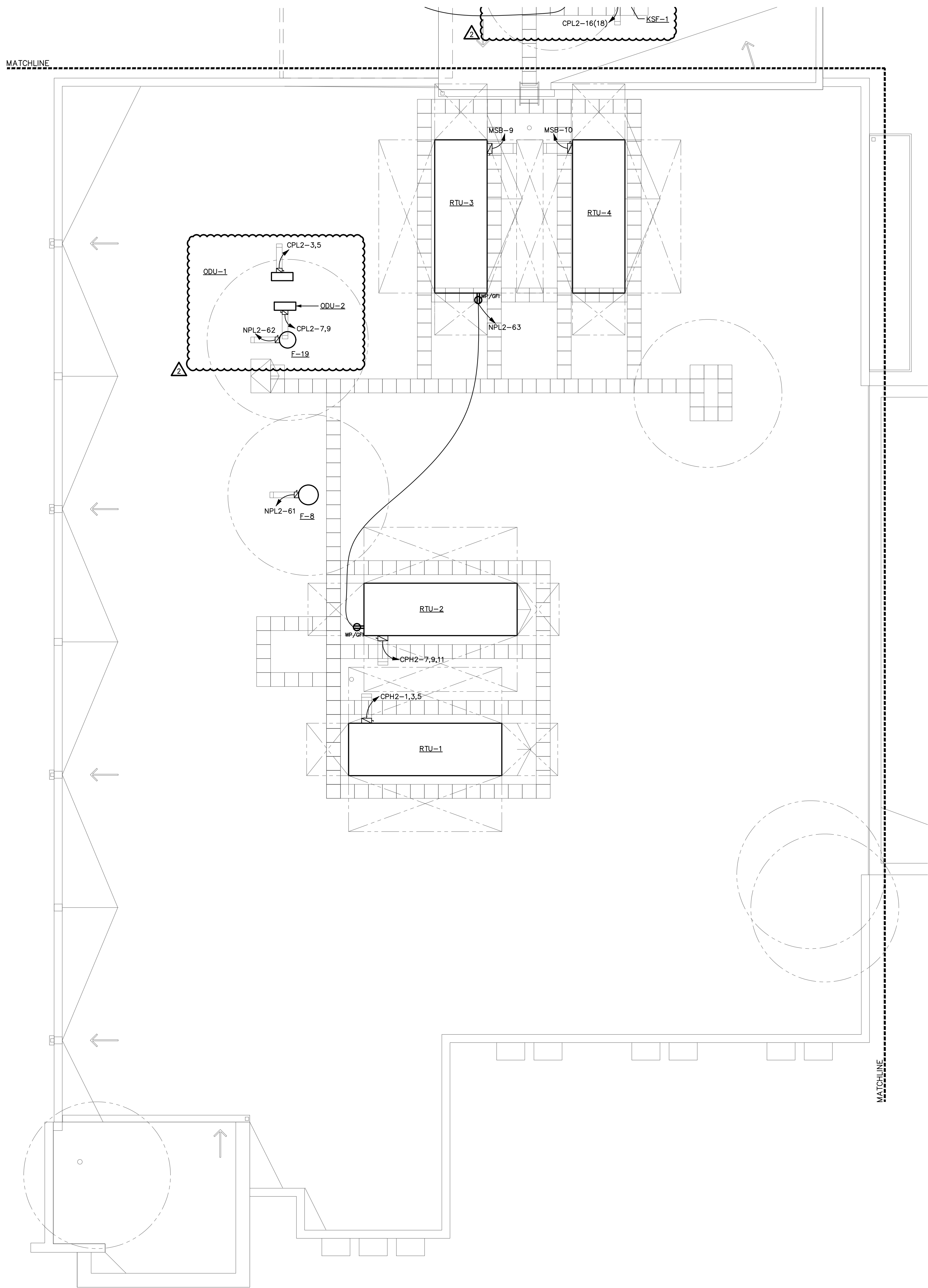
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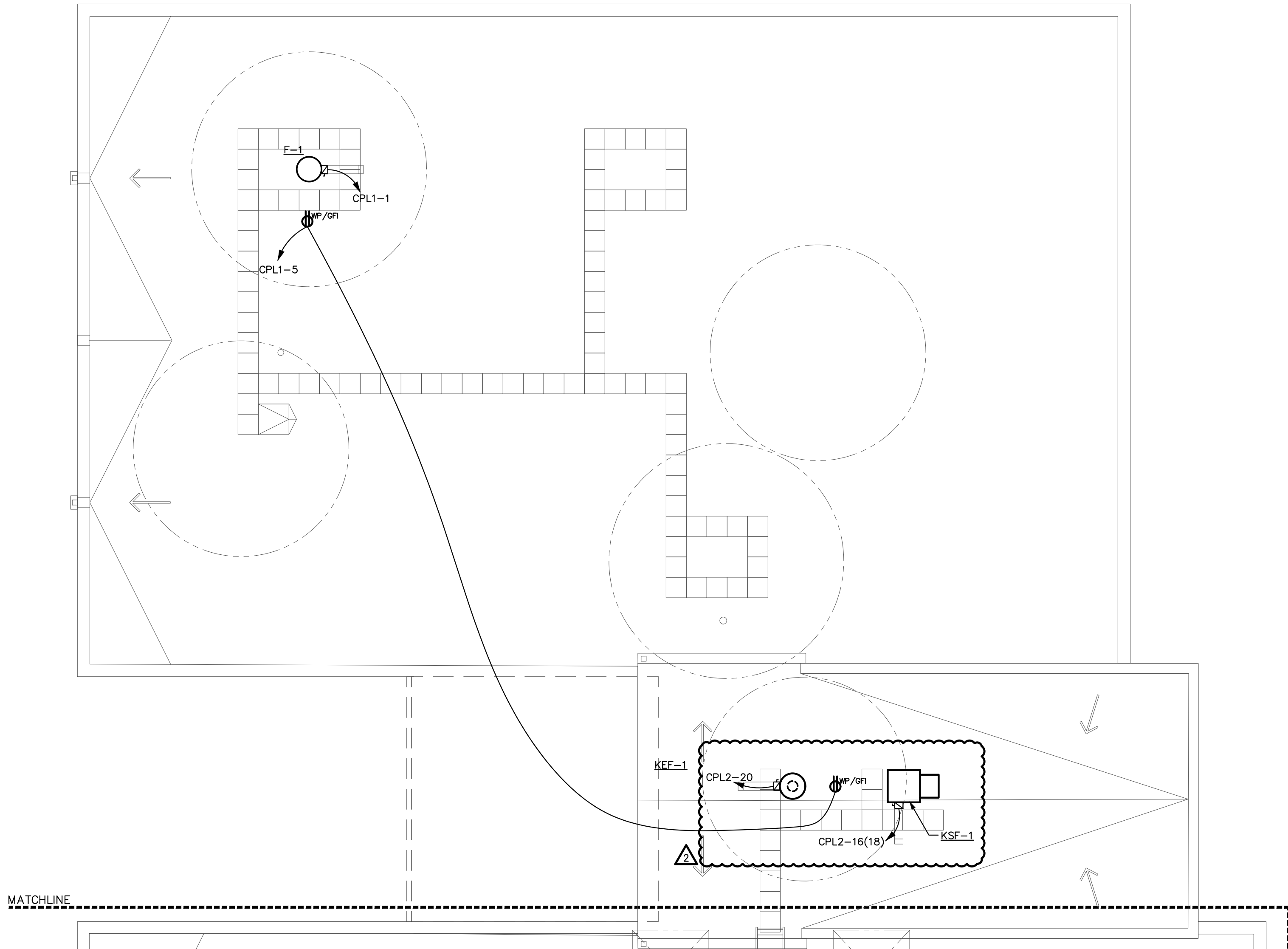
SEAL

SHEET NUMBER

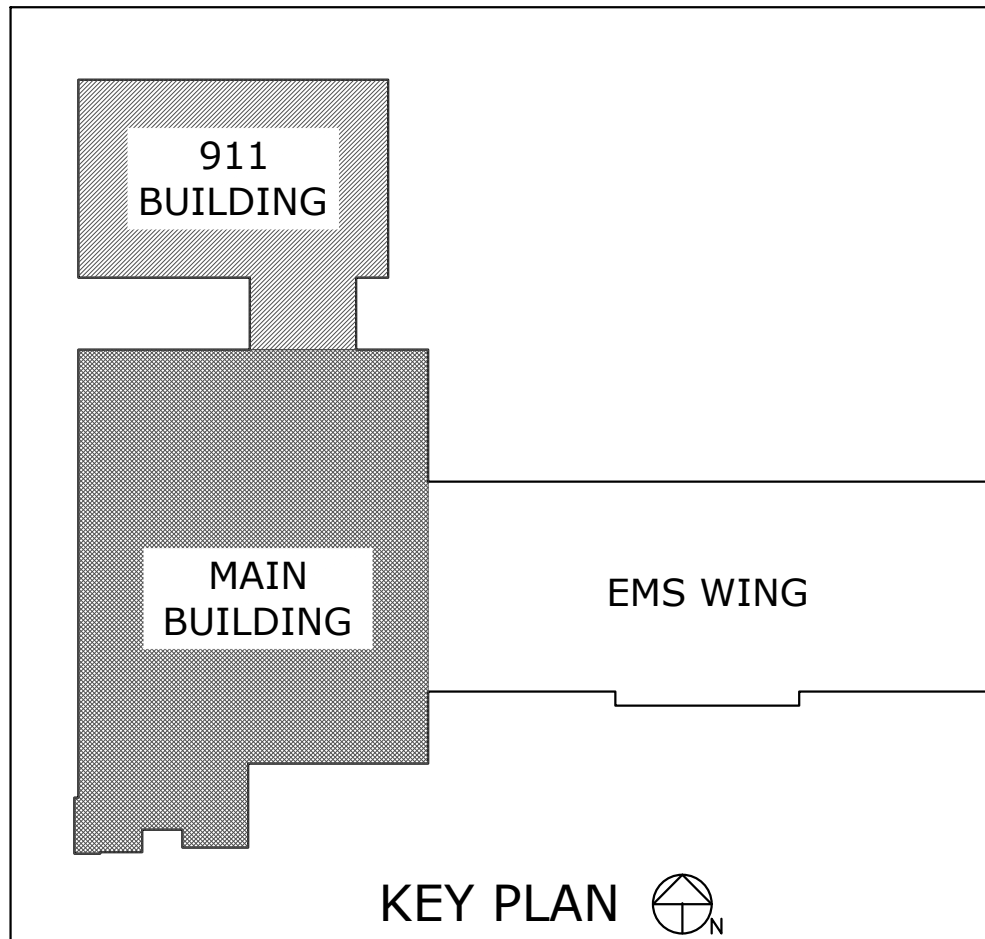
E304



② AREA 2 ROOF PLAN - EQUIPMENT CONNECTIONS
1/8" = 1'-0"



① AREA 1 ROOF PLAN - EQUIPMENT CONNECTIONS
1/8" = 1'-0"



KEY PLAN





SAMPSON COUNTY 911 & ES FACILITIES

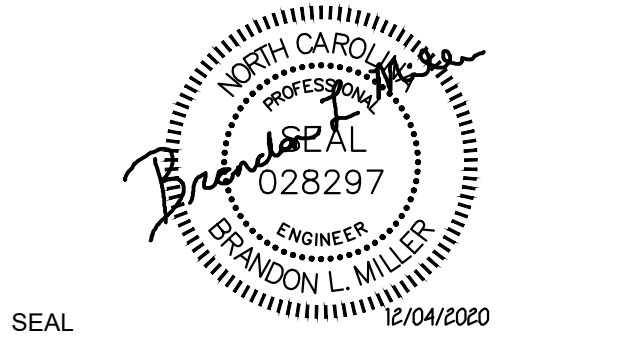
CLINTON,
NORTH CAROLINA

CONSTRUCTION DOCUMENTS

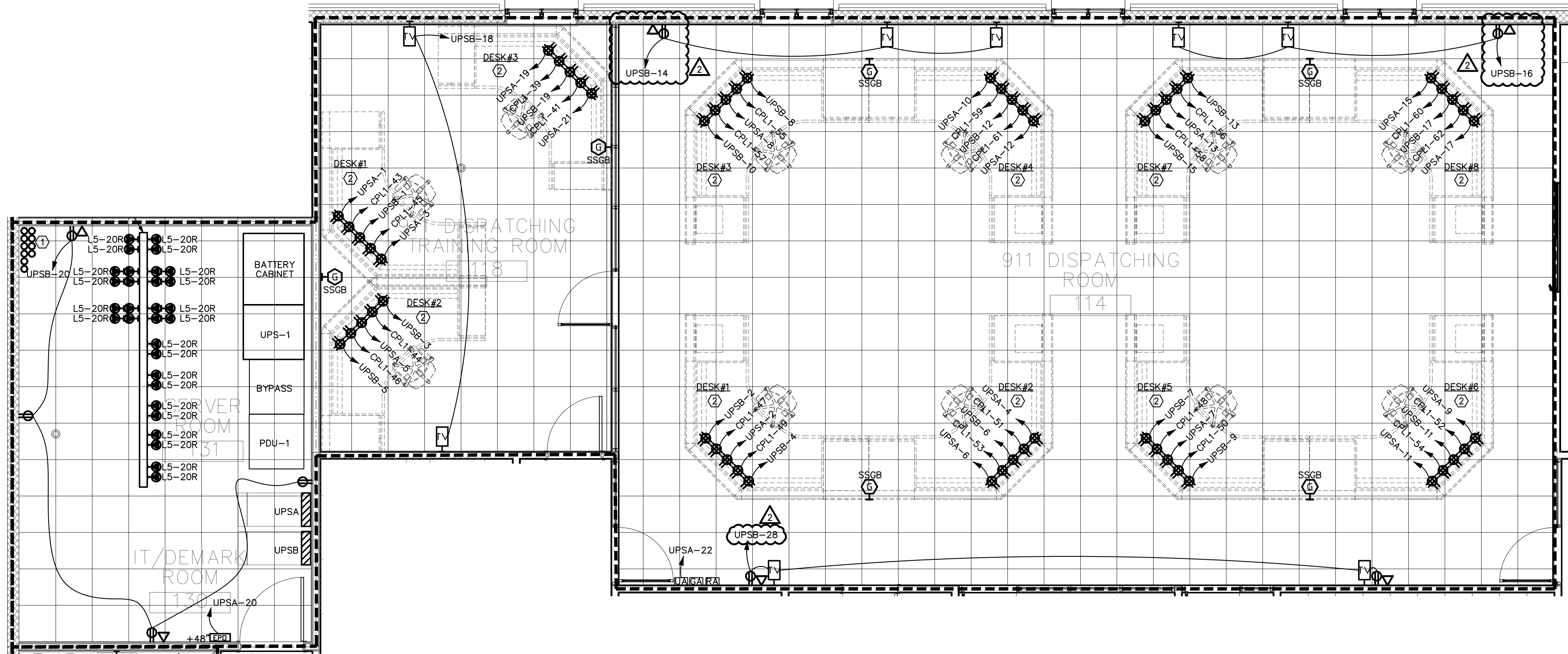
ENLARGED PLANS - ELECTRICAL

DATE	12.04.2020	
PROJECT NO	20003	
REVISIONS		
NUM.	DATE	DESCRIPTION:
	12-17-2020	REVISION #1
	01-09-2021	REV #2 / ADD1

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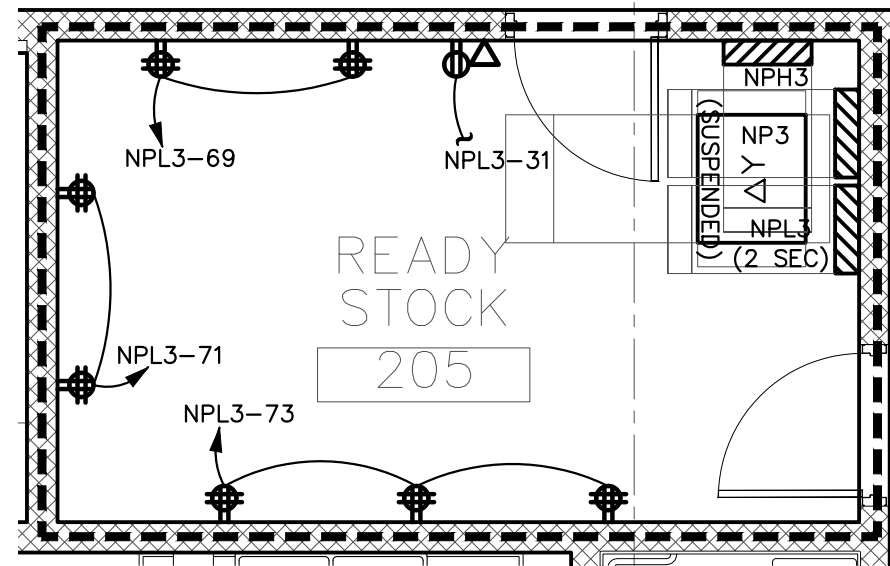


SHEET NUMBER
E501

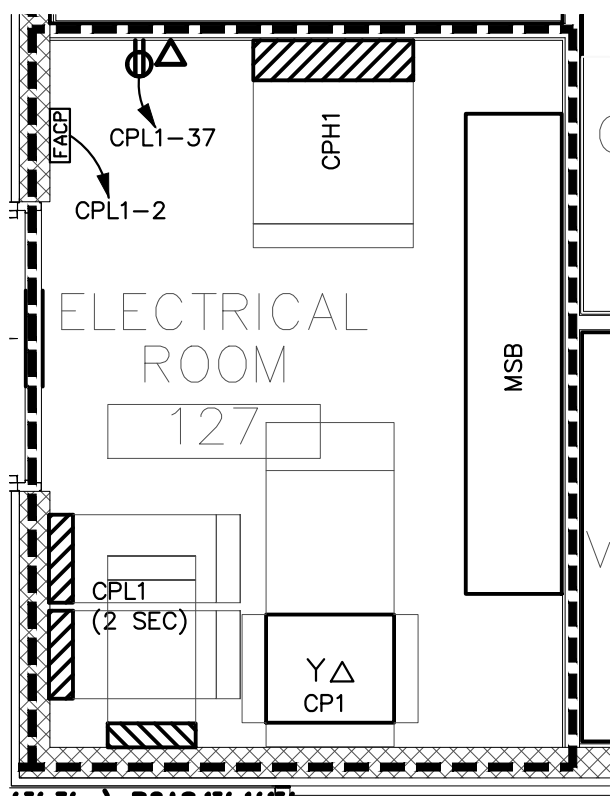


1 ENLARGED PLAN - 911 CENTER
1/4" = 1'-0"

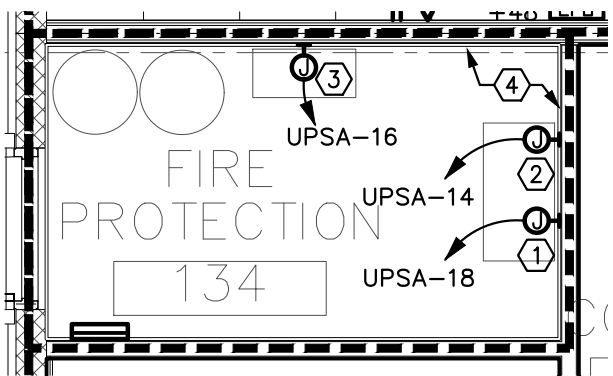
- KEYED NOTES** (X)
(APPLY TO THIS VIEW ONLY)
- CONDUIT STUB UP LOCATION. SEE SHEET E010 FOR ADDITIONAL INFORMATION.
 - AT EACH DESK LOCATION, PROVIDE (2) RAISED FLOOR FURNITURE FEED FLOOR BOXES (SEE DETAIL #5/E603 FOR SPECIFICATION) FOR HARDWIRED FURNITURE POWER AND DATA CONNECTIONS. (1) BOX SHALL BE FOR CRITICAL POWER CIRCUITS, AND (1) FLOOR BOX SHALL BE FOR UPS CIRCUITS. VERIFY EXACT LOCATIONS AND REQUIREMENTS WITH FURNITURE VENDOR PRIOR TO ROUGH-IN.



3 ENLARGED PLAN - READY STOCK 205
1/4" = 1'-0"



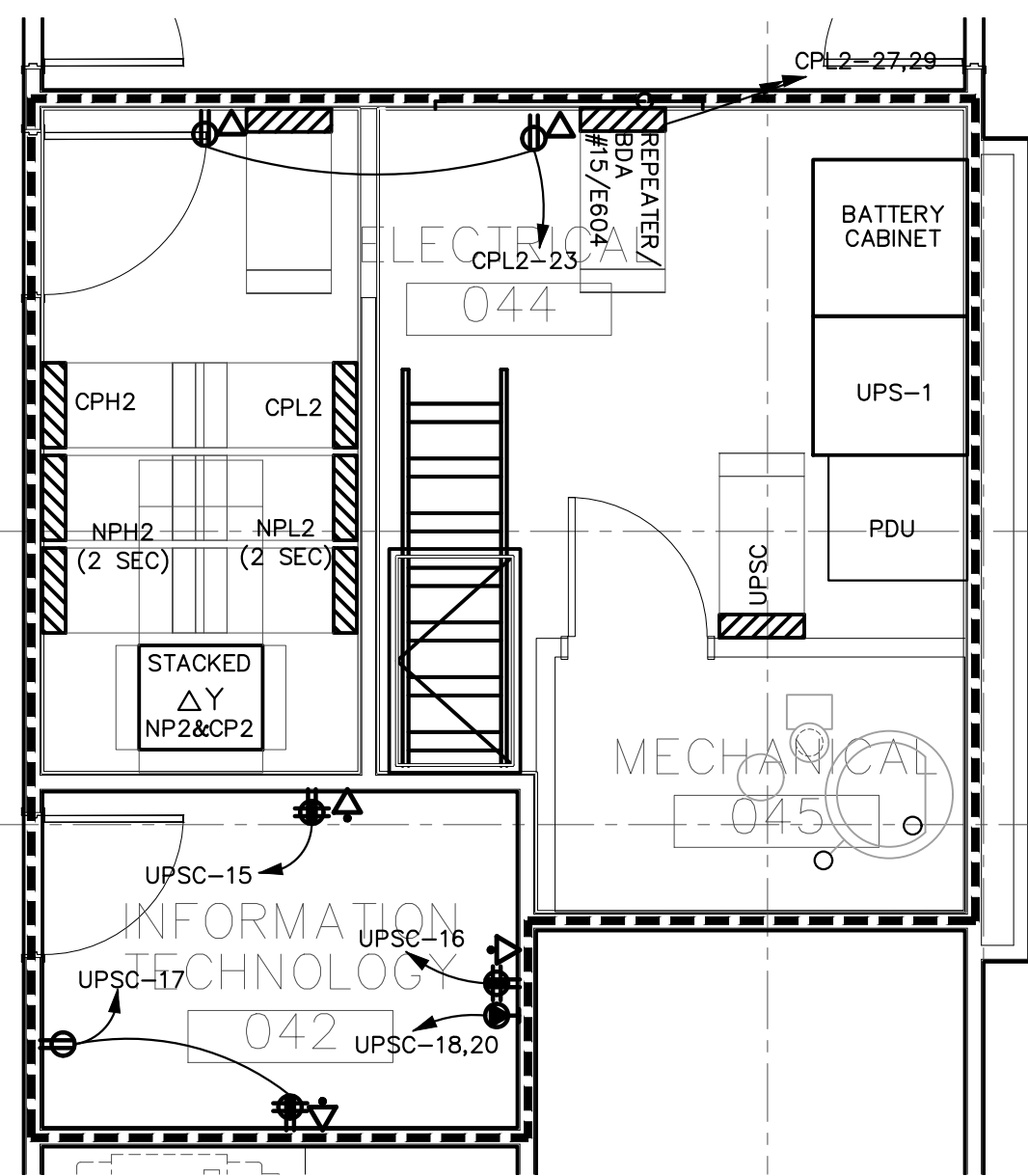
4 ENLARGED PLAN - ELECTRICAL ROOM 127
1/4" = 1'-0"



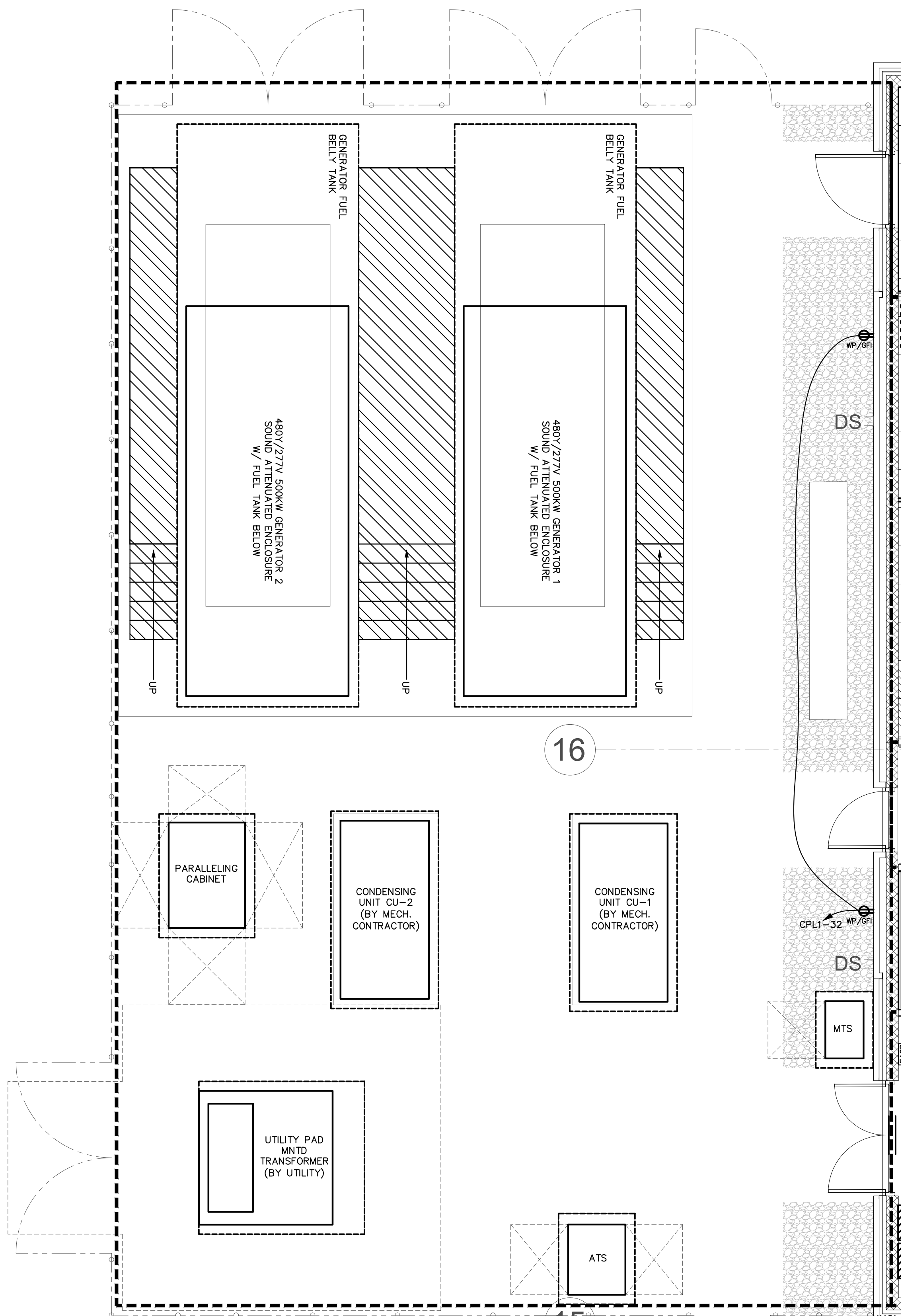
2 ENLARGED PLAN - FIRE PROTECTION 134
1/4" = 1'-0"

KEYED NOTES (X) (APPLY TO THIS VIEW ONLY)

- PROVIDE WALL MOUNTED JUNCTION BOX FOR CONNECTION TO PRE-ACTION CONTROL PANEL. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN WITH FIRE PROTECTION SUB-CONTRACTOR. CONTRACTOR SHALL PROVIDE NECESSARY CONNECTIONS BACK TO BMS CONTROL PANEL.
- PROVIDE WALL MOUNTED JUNCTION BOX FOR CONNECTION TO PRE-ACTION AIR COMPRESSOR (120V/1/2, 1HP MAX). COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN WITH FIRE PROTECTION SUB-CONTRACTOR.
- PROVIDE WALL MOUNTED JUNCTION BOX FOR CONNECTION TO CLEAN AGENT CONTROL PANEL. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN WITH FIRE PROTECTION SUB-CONTRACTOR. CONTRACTOR SHALL PROVIDE NECESSARY CONNECTIONS BACK TO BMS CONTROL PANEL.
- ALL CONTROL PANELS AND EQUIPMENT ON THIS WALL SHALL BE MOUNTED ON UNISTRUT.



6 ENLARGED PLAN - IT 042 & ELECTRICAL 044
1/4" = 1'-0"



5 ENLARGED PLAN - EQUIPMENT YARD
1/4" = 1'-0"

7. MGB' SHALL BE 48" LONG "HIGH X 1/4" THIN-PLATED COPPER GROUND BUS WITH MOUNTING BRACKET, SUPPORT AND MOUNTING ISOLATORS. COMPLETELY PRE-DRILL 3/8" DIA. HOLE, 2-HOLE LUG PATTERN ALONG LENGTH OF BUS. 7/8" DIA. HOLE FOR CABLE BUNDLE. MOUNTING ISOLATORS SHALL BE SECURED TO EXTERIOR SURFACE OF BUS BY EXOTHERMIC WELDING ISOLATORS. COMPLETELY PRE-DRILL 3/8" DIA. HOLE, 2-HOLE LUG PATTERN ALONG LENGTH OF BUS.
8. THE MGB GROUNDING CONDUCTOR SHALL BE BONDED TO EXTERNAL GROUNDING ELECTRODE SYSTEM WITH AN EXOTHERMIC WELDING PROCESS. THE CONNECTION SHALL BE REVERSIBLE, IRREVERSIBLE COMPRESSION-TYPE CONNECTORS OR BY EXOTHERMIC WELDING PROCESS. NO REVERSIBLE CRMPSS SHALL BE USED ON EXTERIOR BELOW GRADE CONNECTION.
9. THE MGB GROUNDING CONDUCTOR SHALL BE PERMITTED TO BE LISTED IRREVERSIBLE COMPRESSION-TYPE CONNECTORS OR BY EXOTHERMIC WELDING PROCESS. NO REVERSIBLE CRMPSS SHALL BE USED ON EXTERIOR BELOW GRADE CONNECTION.
10. THE MGB GROUNDING CONDUCTOR SHOULD NOT BE SPLICED. SHOULD A SPLICE IN THE GROUNDING ELECTRODE CONDUCTOR BE REQUIRED, IT SHALL BE PERMITTED TO BE LISTED IRREVERSIBLE COMPRESSION-TYPE CONNECTORS OR BY EXOTHERMIC WELDING PROCESS.
11. THE MGB GROUNDING ELECTRODE CONDUCTOR LOCATED IN AREAS WITH THE POTENTIAL FOR PHYSICAL DAMAGE SHALL BE PROTECTED BY A RIGID CONDUIT. THE CONDUIT SHALL BE SECURED TO THE GROUNDING CONDUCTOR IN A DIRECT MANNER WITH NO SHARP BEND OR NARROW LOOPS. THE GROUNDING CONDUCTOR BEND ANGLES SHALL NOT BE LESS THAN 90 DEGREE NOR HAVE A BENDING RADIUS OF LESS THAN 8".
12. THE MGB GROUNDING ELECTRODE CONDUCTOR SHALL BE RUN TO THE PERIMETER WALL TO THE EXTERNAL GROUNDING ELECTRODE SYSTEM. THE GROUNDING CONDUCTOR SHOULD BE ROUTED THROUGH THE WALL IN A PVC OR FLEXIBLE CONDUIT. THE CONDUIT SHALL BE SECURED TO THE PERIMETER WALL WITH A MINIMUM OF TWO FASTENERS.
13. THE MGB GROUNDING CONDUCTOR SHOULD NOT BE BUILT IN FERROUS METALLIC CONDUIT.
14. THE MGB GROUNDING CONDUCTOR SHALL BE MADE OF COPPER AND MAY BE INSULATED.
15. THE MGB GROUNDING CONDUCTOR SHALL BE MINIMUM 1/2" DIA. COPPER CONDUCTOR.
16. THE MGB GROUNDING CONDUCTOR SHOULD BE SECURED BY THE ROGB BY LISTED TWO-HOLE COMPRESSION LUG.
17. THE MGB GROUNDING CONDUCTOR SHALL BE CLEARLY VISIBLY, THE GROUNDING CONDUCTOR SHALL BE CLEARLY LABELED ON BOTH ENDS.
18. THE MGB GROUNDING CONDUCTOR SHOULD NOT BE SPLICED. SHOULD A SPLICE IN THE GROUNDING ELECTRODE CONDUCTOR BE REQUIRED, IT SHALL BE PERMITTED TO BE LISTED IRREVERSIBLE COMPRESSION-TYPE CONNECTORS OR BY EXOTHERMIC WELDING PROCESS.
19. THE MGB GROUNDING CONDUCTOR SHOULD NOT BE SECURED OR ATTACHED TO SURFACES AS REQUIRED TO ENSURE THEY DO NOT BECOME DAMAGED OR DISCONNECTED. CONDUCTOR SHALL BE SECURED IN A MANNER THAT PERMITS ASSOCIATED EQUIPMENT TO BE EASILY SERVICED. CONDUCTORS SHALL BE SECURE AT NO GREATER THAN 3 FT INTERVALS.
20. THE MGB GROUNDING CONDUCTOR SHALL BE SECURED TO THE SURFACE BY A MINIMUM OF TWO SLEEVES IN ELECTRICAL NON-METALLIC TUBING, OR OTHER CONDUIT, THAT IS SECURELY ATTACHED TO THE SURFACE OVER WHICH IT ROUTED.
21. THE MGB GROUNDING CONDUCTOR SHALL BE SECURED TO THE SURFACE BY A MINIMUM OF TWO SLEEVES IN ELECTRICAL CONDUCTOR OR CONNECTION DEVICE FROM MAKING INCIDENTAL CONTACT WITH METALLIC SURFACES.

17. GROUND BUS CONDUCTORS OF ALL SIZES SHALL MAINTAIN A MINIMUM BENDING RADIUS OF 8 IN. IN THE ANGLE OF ANY BEND SHALL NOT BE LESS THAN 90 DEGREES.
18. ALL GROUND CONDUCTORS SHALL BE SEPARATED A MINIMUM OF 2 IN. FROM CONDUCTORS OF OTHER CABLE GROUPS.
19. ALL METALLIC CONDUITS SHALL BE BONDED TO EACH END.
20. ALL MECHANICAL AND COMPRESSION-TYPE CONNECTION DEVICES SHALL BE UL 486A LISTED AND OF THE PROPER SIZE TO MATCH THE CONDUCTOR CONNECTION DEVICES SHALL BE FLAT-PLATED WHEN CONNECTED WITH STEEL, GALVANIZED STEEL, OR ALUMINUM SURFACES.
21. ALL CLAMPS AND COMPRESSION-TYPE CONNECTION DEVICES SHALL BE UL 486A LISTED AND SHALL MAINTAIN A MINIMUM OF 1/2 IN. OF SPACE BETWEEN CONNECTIONS.
22. NO MORE THAN ONE CLAMP, FITTING OR LUG MAY BE ATTACHED BY THE SAME BOLT OR BOLTS. AN EXCEPTION TO THIS RULE IS WHERE THE CLAMP, FITTING OR LUG IS USED FOR INTERNAL CONNECTION POINT OF THE SAME EQUIPMENT MUST BE BONDED TO THE EQUIPMENT GRROUNDING CONDUCTOR.
23. SOLID CONDUCTORS SHALL BE ATTACHED TO LUGS AND TO OTHER CONDUCTORS BY IRREVERSIBLE HIGH COMPRESSION TYPE CONNECTION DEVICES. IRREVERSIBLE CONNECTION DEVICES SHALL BE UL 486A LISTED.
24. CONNECTIONS BETWEEN DISSIMILAR METALS SHALL NOT BE MADE UNLESS THE CONDUCTORS ARE SEPARATED BY A SUITABLE MATERIAL THAT IS OF THE ATTACHMENT DEVICES. ONLY CONNECTION DEVICES LISTED AND APPROVED FOR THE APPLICATION ARE TO BE USED.
25. ALL TWO-HOLE LUGS SHALL HAVE BOLTS IN BOTH HOLES WITH LOCK WASHERS PLACED ON THE NUT SIDE OF THE HOLES.
26. ALL SECURING HARDWARE FOR MECHANICALLY BOLTED CLAMPS AND SLUGS SHALL BE STAINLESS STEEL OR APPROVED FOR THE APPLICATION.
27. ALL CLAMPS SHALL NOT BE USED ON SOLID CONDUCTORS UNLESS THEY ARE LISTED AND APPROVED FOR THE APPLICATION. 300 SERIES SS.
28. MECHANICAL LUGS AND CLAMPS SHALL NOT BE USED ON SOLID CONDUCTOR.
29. CONDUCTOR SHALL NOT EXTEND THROUGH OR BEYOND THE CLAMP. FITTING OR LUG UNLESS THE DEVICE IS DESIGNED AND LISTED TO PERMIT THIS CONDUCTOR EXTENSION.
30. ALL CONDUCTORS SHALL BE CONNECTED TO GROUND BUS OR EQUIPMENT GROUNDING CONDUCTOR AT ANY LOCATION.
31. THE END OF A GROUNDING CONDUCTOR, GROUNDING ELECTRODE CONDUCTOR, COMMUNICATION BONDING BACKBONE CONDUCTOR AND GROUND BUS CONDUCTOR TO THE MGB OR SGBR SHALL UTILIZE EXOTHERMIC WELDING, LISTED IRREVERSIBLE COMPRESSION-TYPE CONNECTION OR LISTED COMPRESSION TWO-HOLE LUG AND SECURING HARDWARE OF THE PROPER SIZE.
32. ALL SET-SCREW TYPE CONNECTOR AND COUPLINGS SHALL BE BRIDGED WITH BONDING JUMPER.
33. CONNECTION OF A GROUNDING CONDUCTOR, GROUNDING ELECTRODE CONDUCTOR, COMMUNICATION BONDING BACKBONE CONDUCTOR AND GROUND BUS CONDUCTOR TO THE MGB OR SGBR SHALL UTILIZE EXOTHERMIC WELDING, LISTED IRREVERSIBLE COMPRESSION-TYPE CONNECTION OR LISTED COMPRESSION TWO-HOLE LUG AND SECURING HARDWARE OF THE PROPER SIZE.
34. ALL INTERIOR-GROUNDING AND BONDING CONDUCTORS SHALL BE INSULATED STRANDED COPPER CONDUCTORS. THE JACKET SHALL BE GREEN, GREEN WITH A YELLOW STRIPE OR PROPERLY MARKED WITH A DISTINCTIVE GREEN COLORING, AND THE GREEN COLORING SHALL BE MAINTAINED THROUGHOUT THE ENTIRE LENGTH OF THE CONDUCTOR.
35. ALL GROUND CONDUCTORS IN CONTACT WITH THE EARTH SHALL BE TINNED COPPER.
36. ALL GROUNDING AND BONDING CONDUCTORS SHALL BE TINNED COPPER.
37. ALL CONNECT TO GROUND BARS SHALL USE 2-HOLE LUGS WITH LONG SHANKS DOUBLE CRIMPED.
38. REFERENCE TELECOMMUNICATIONS GROUNDING DETAILS ON DWG. TC002 FOR ADDITIONAL GROUNDING REQUIREMENTS FOR



SAMPSON COUNTY 911 & ES FACILITIES

CLINTON,
NORTH CAROLINA

CONSTRUCTION DOCUMENTS

ELECTRICAL DETAILS

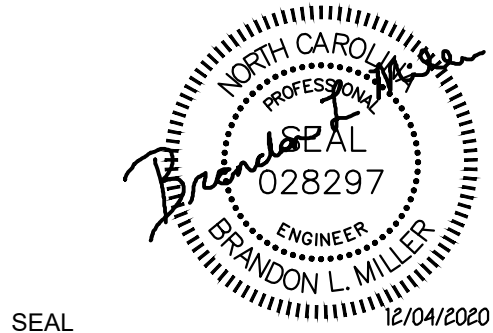
DATE 12.04.2020

PROJECT NO 20003

REVISIONS

NUM.	DATE	DESCRIPTION
1	01-09-2021	REV #2 / ADD1

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SEAL

SHEET NUMBER

E603

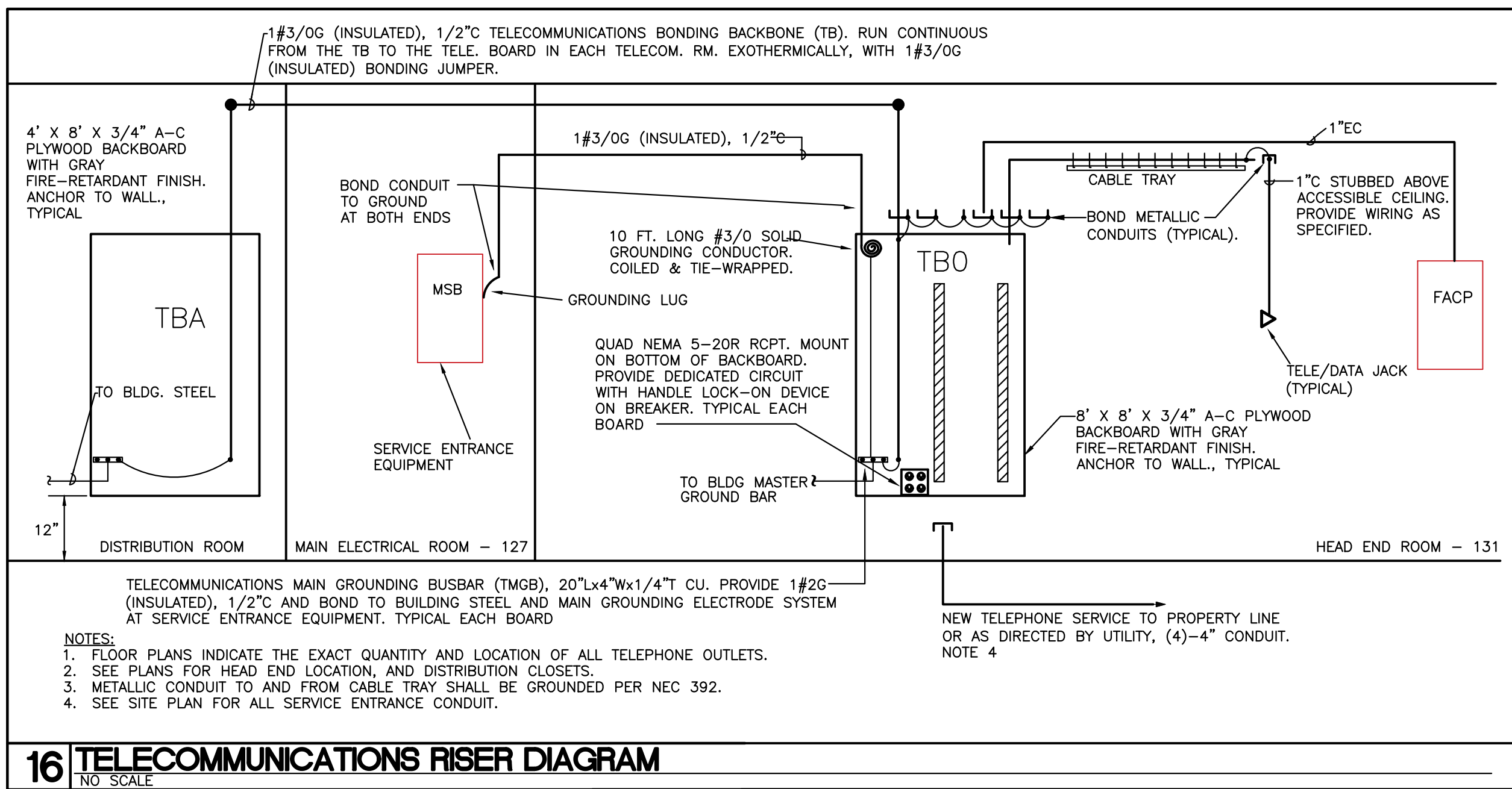
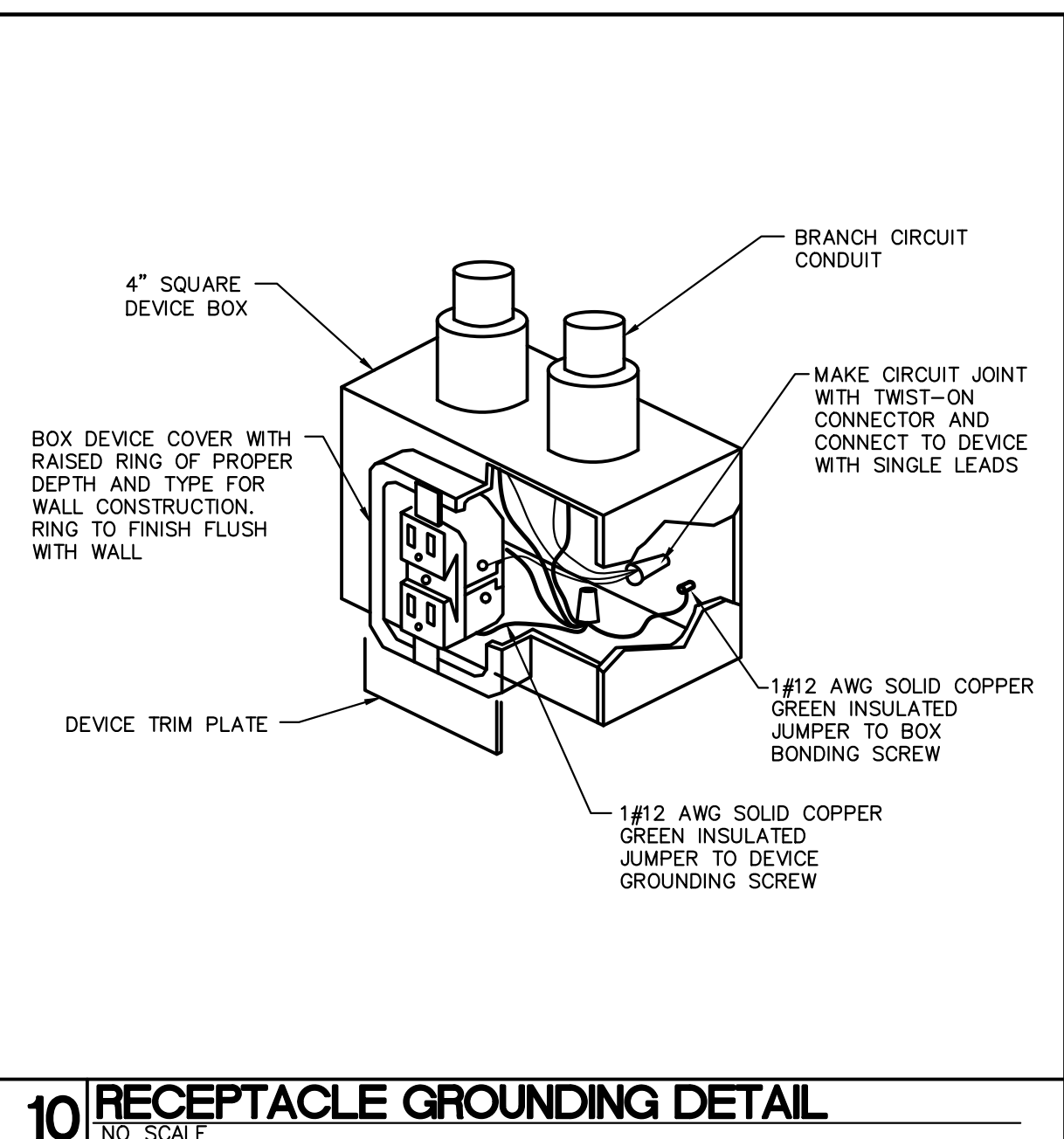
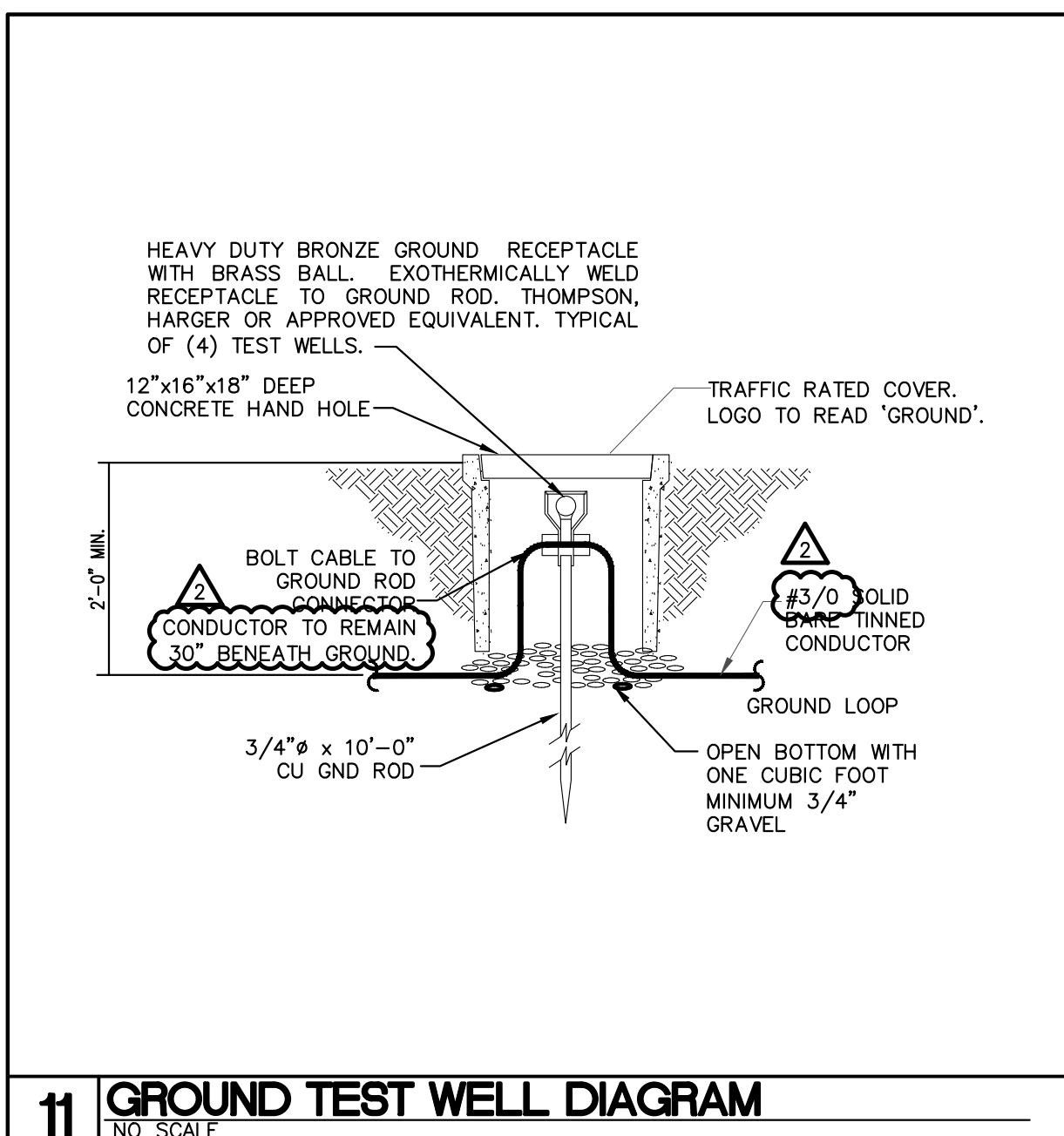
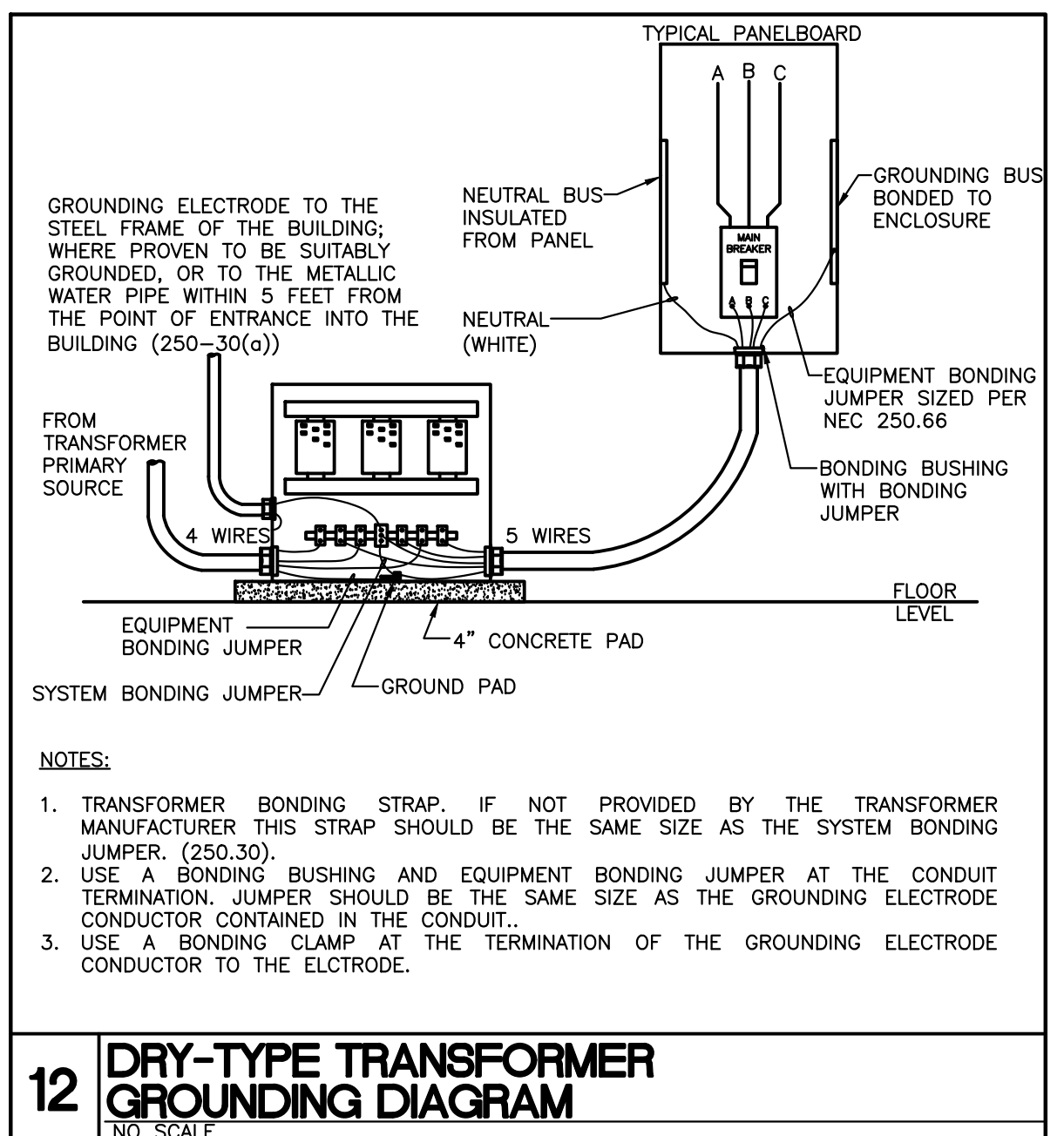
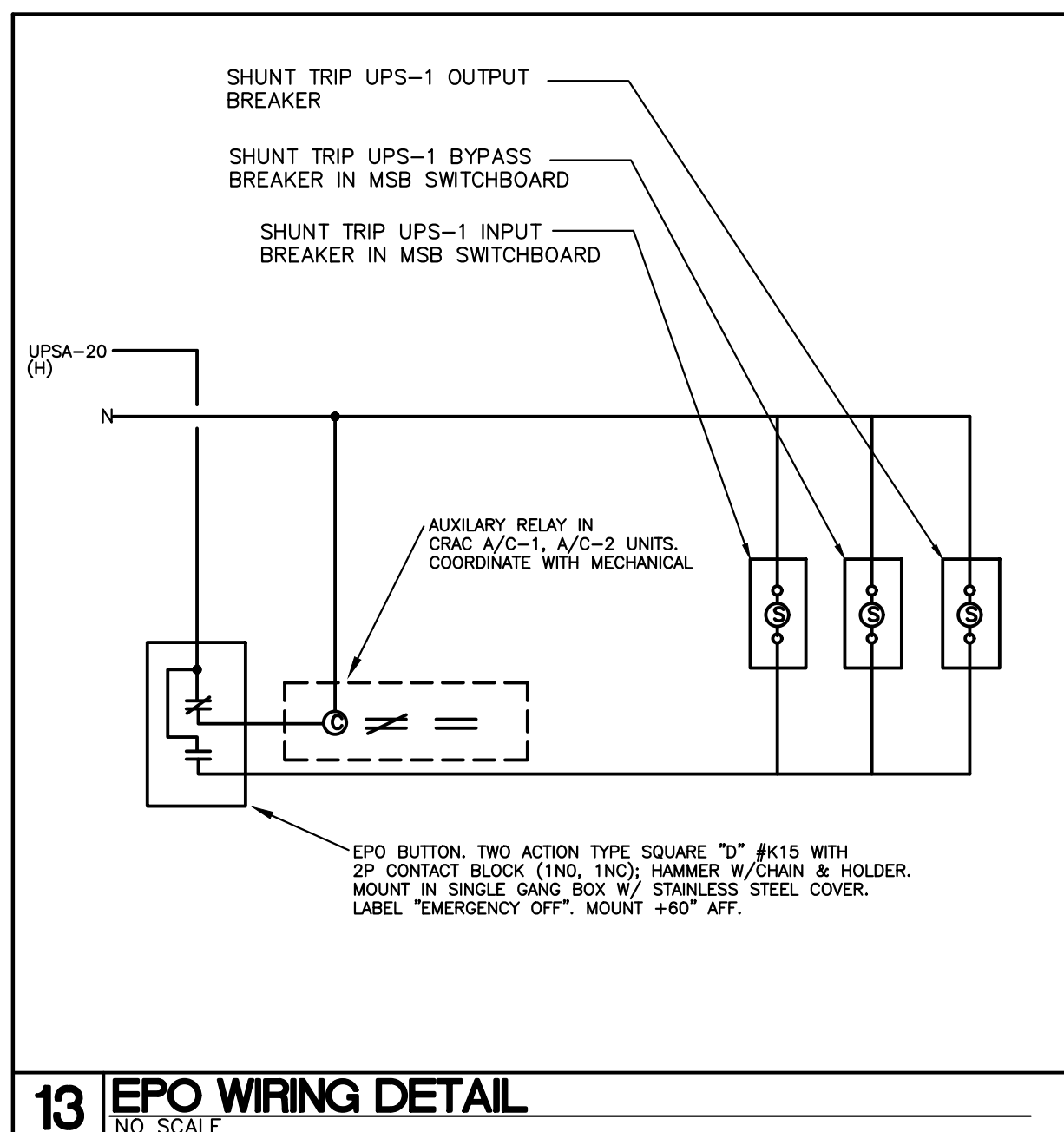
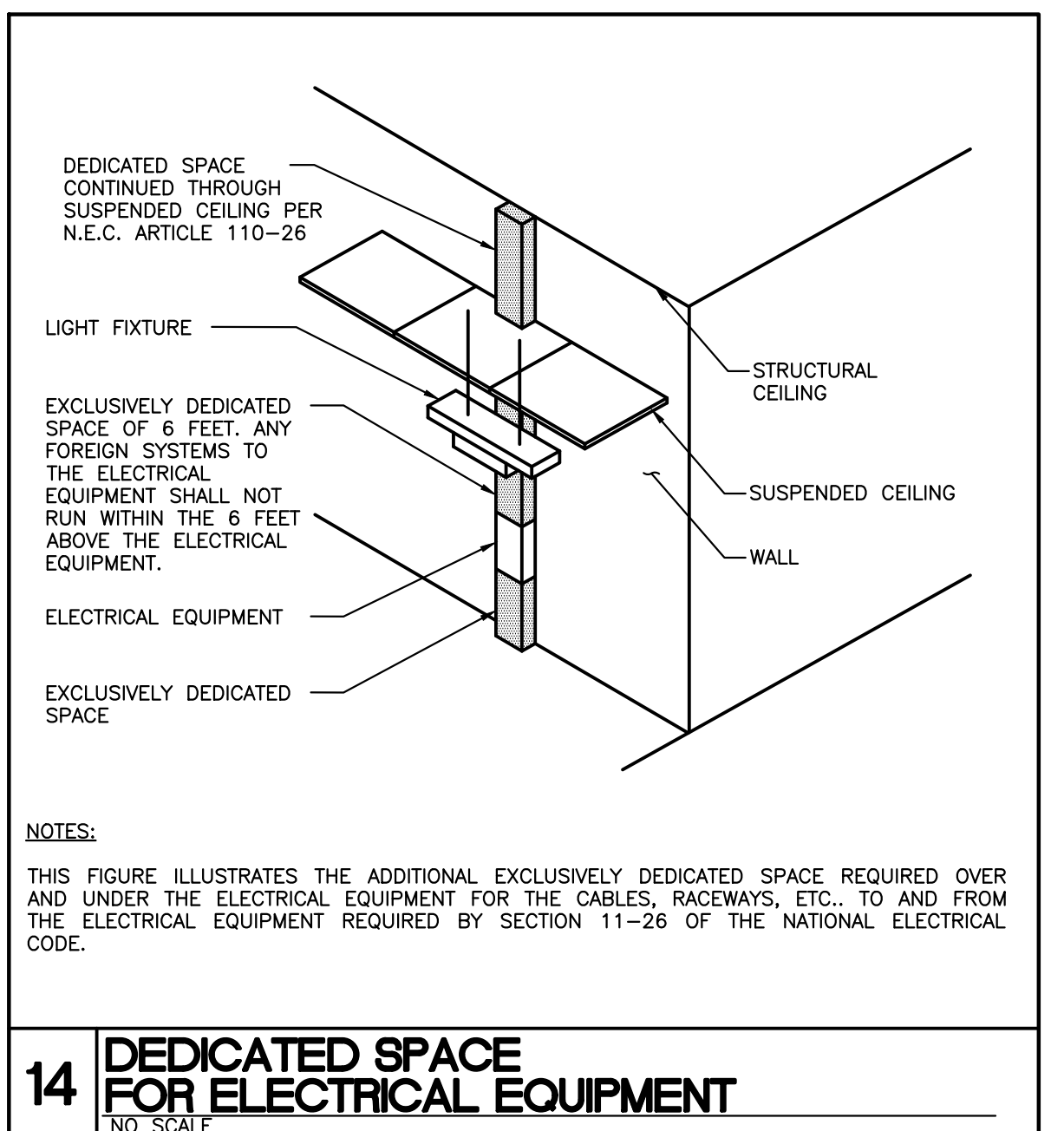
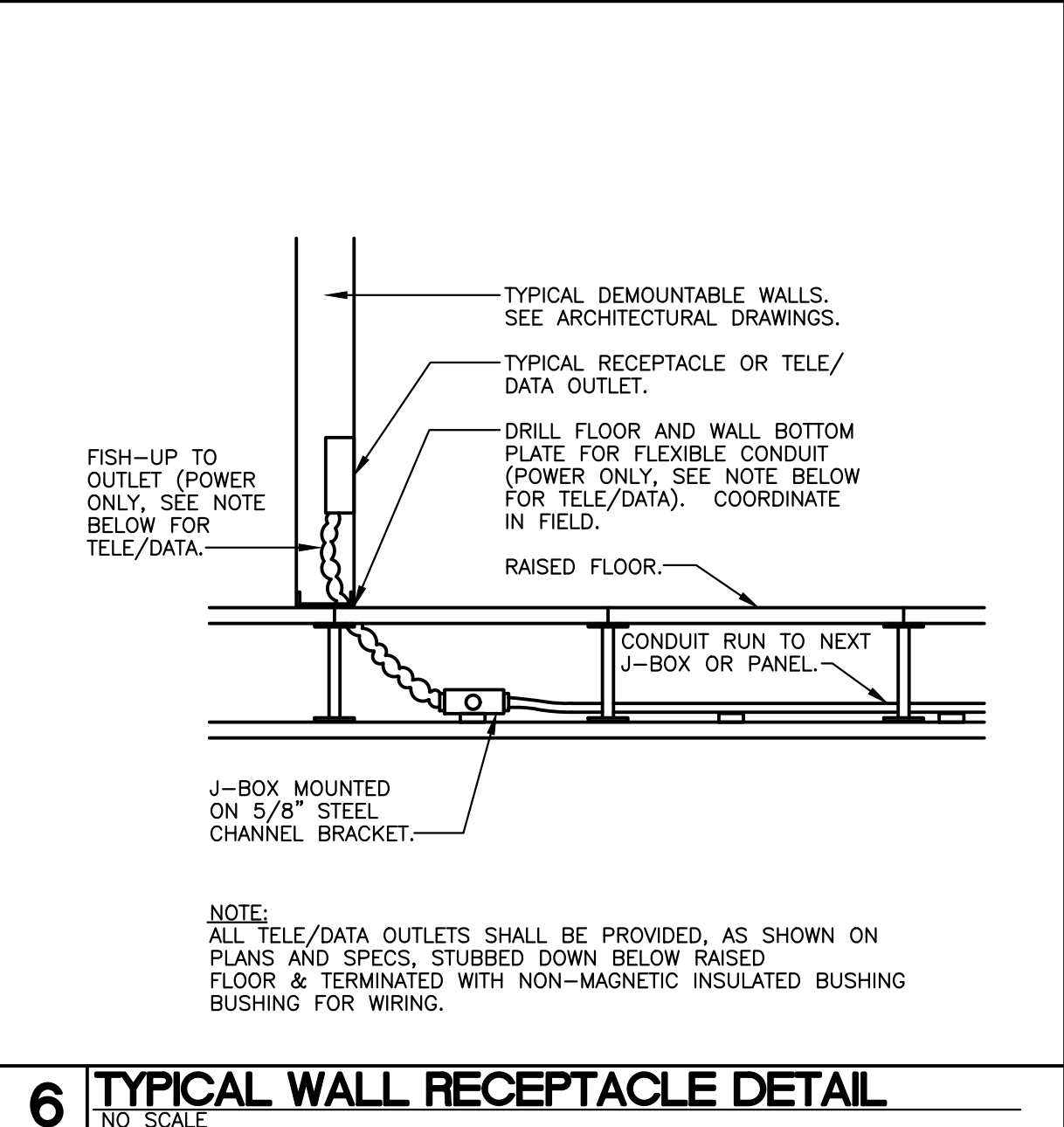
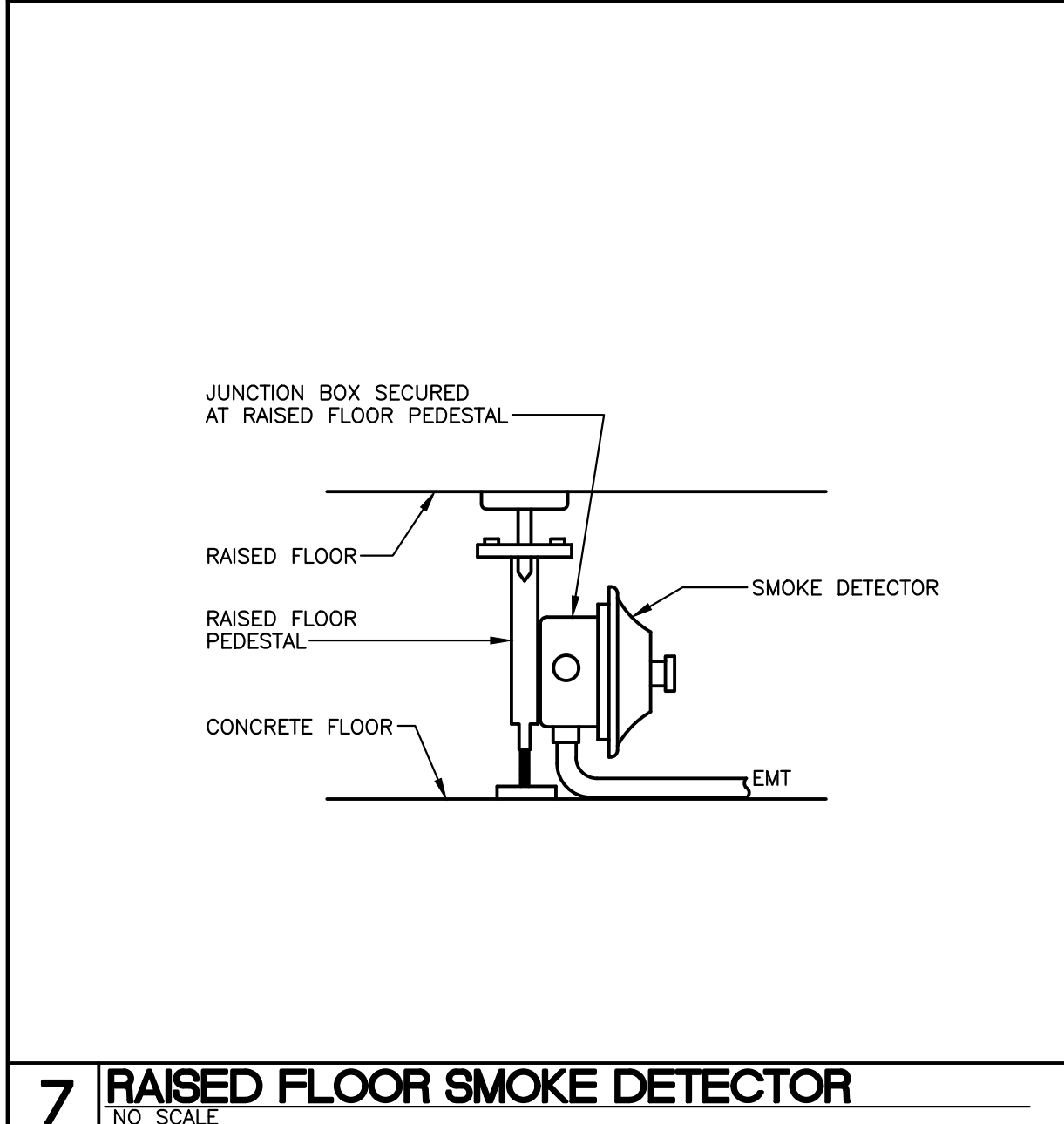
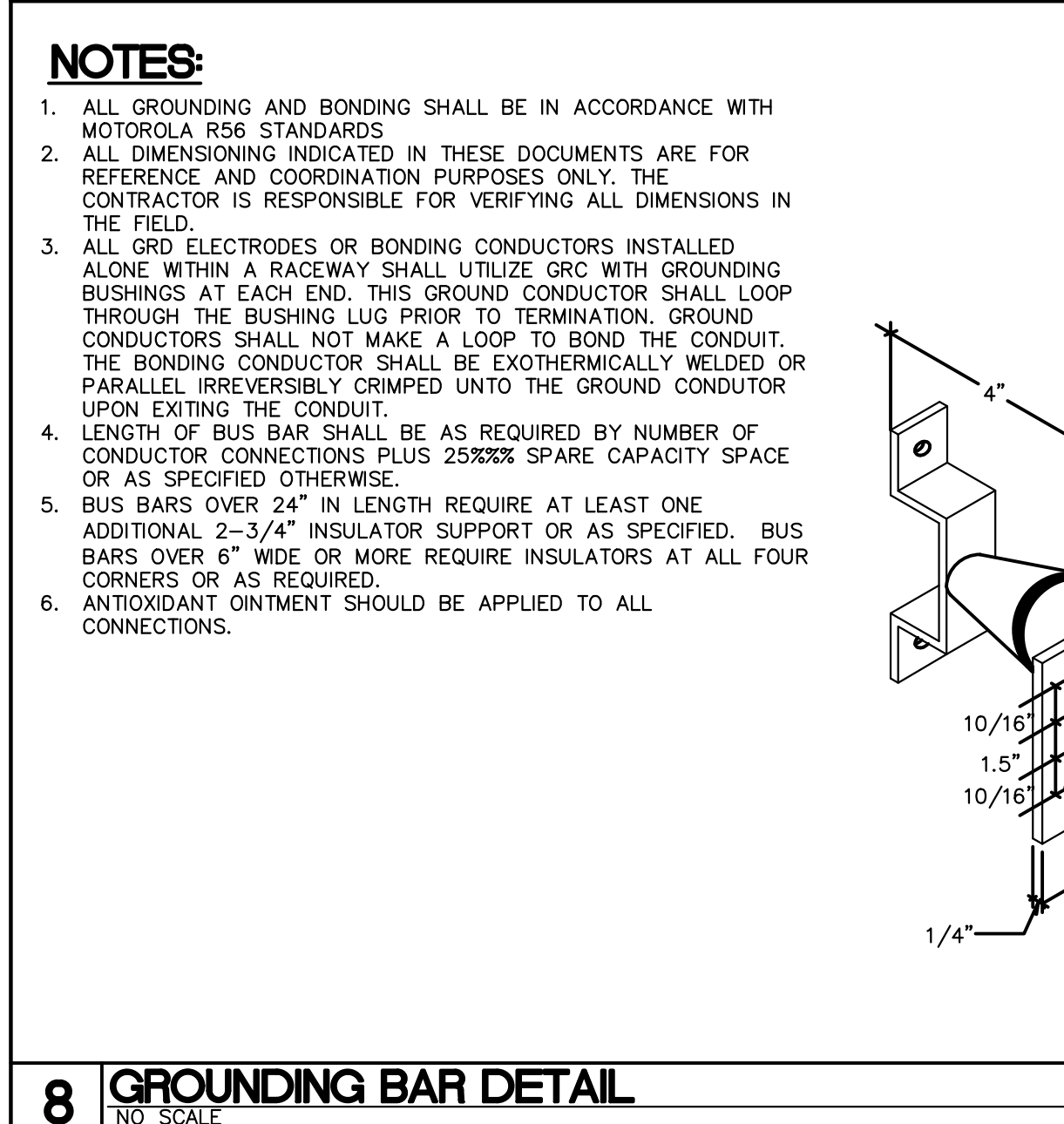
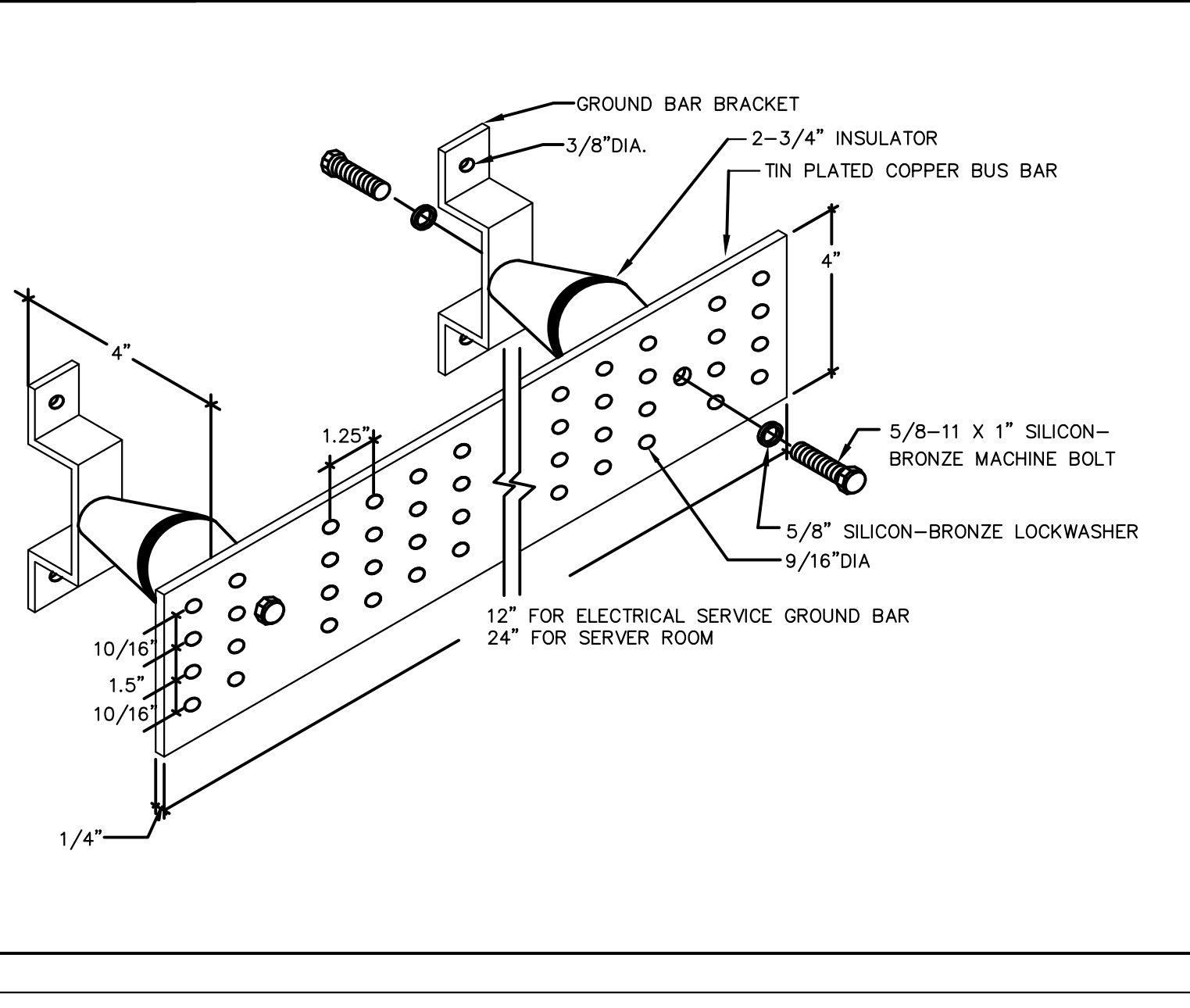
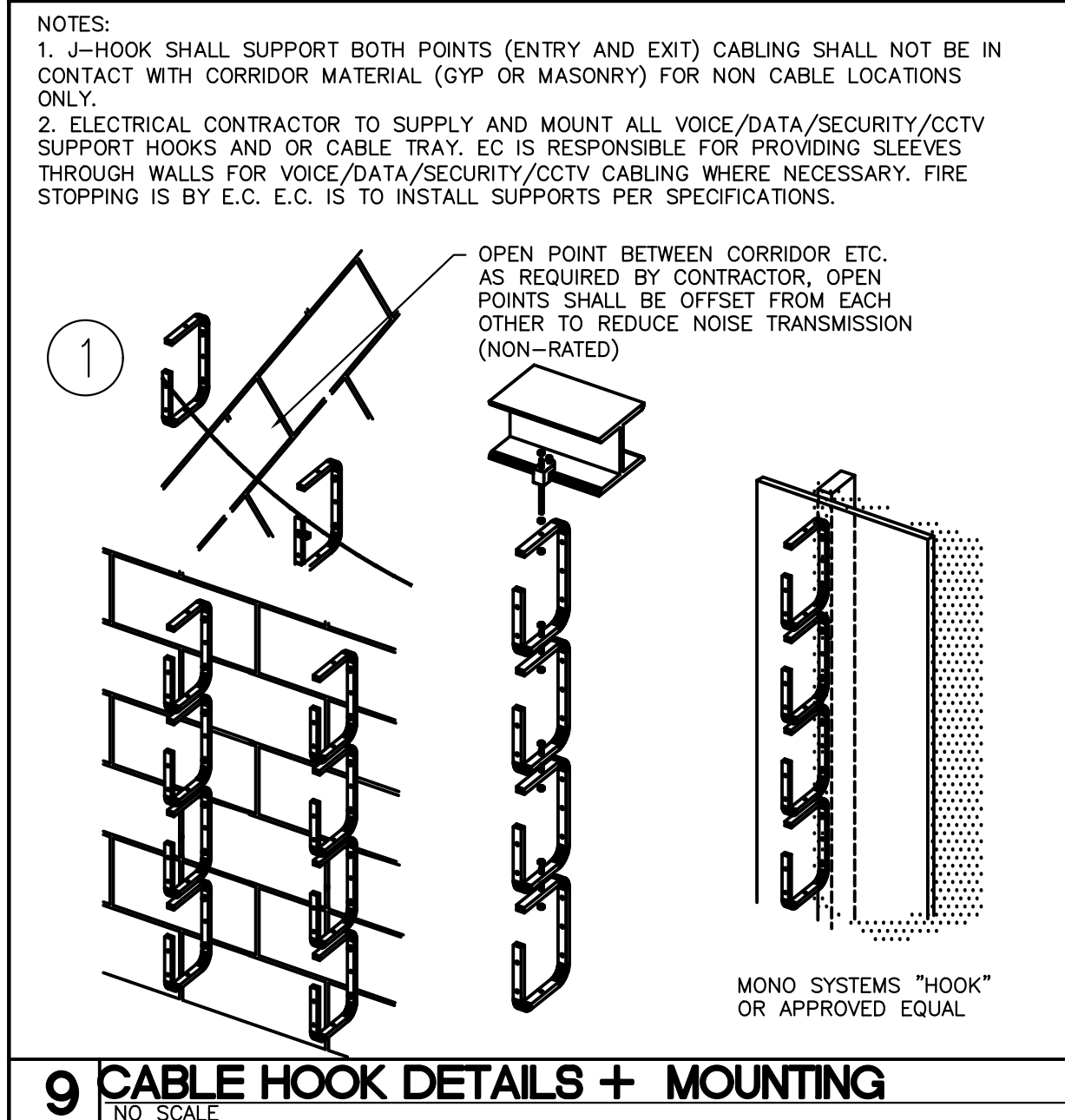
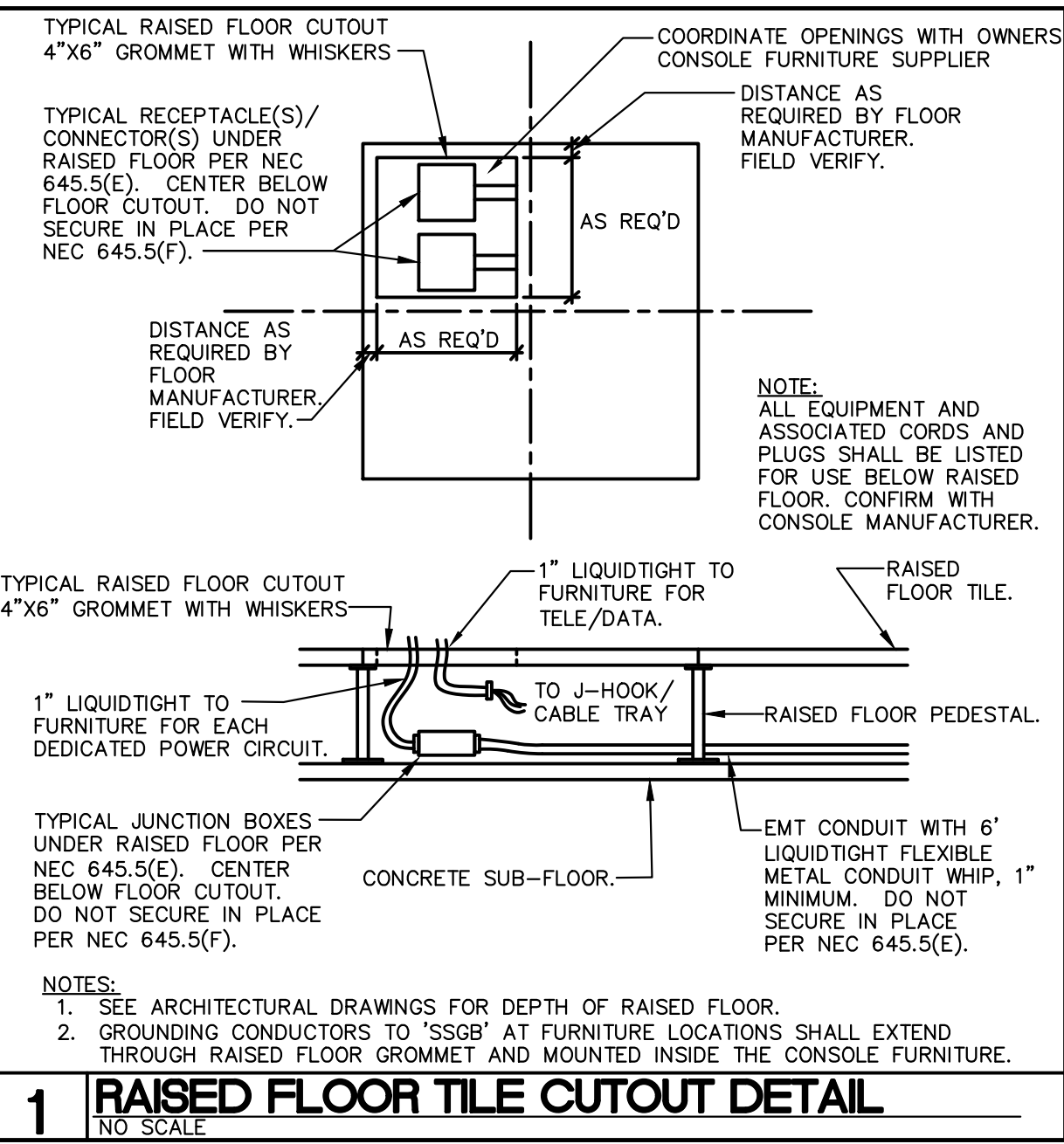
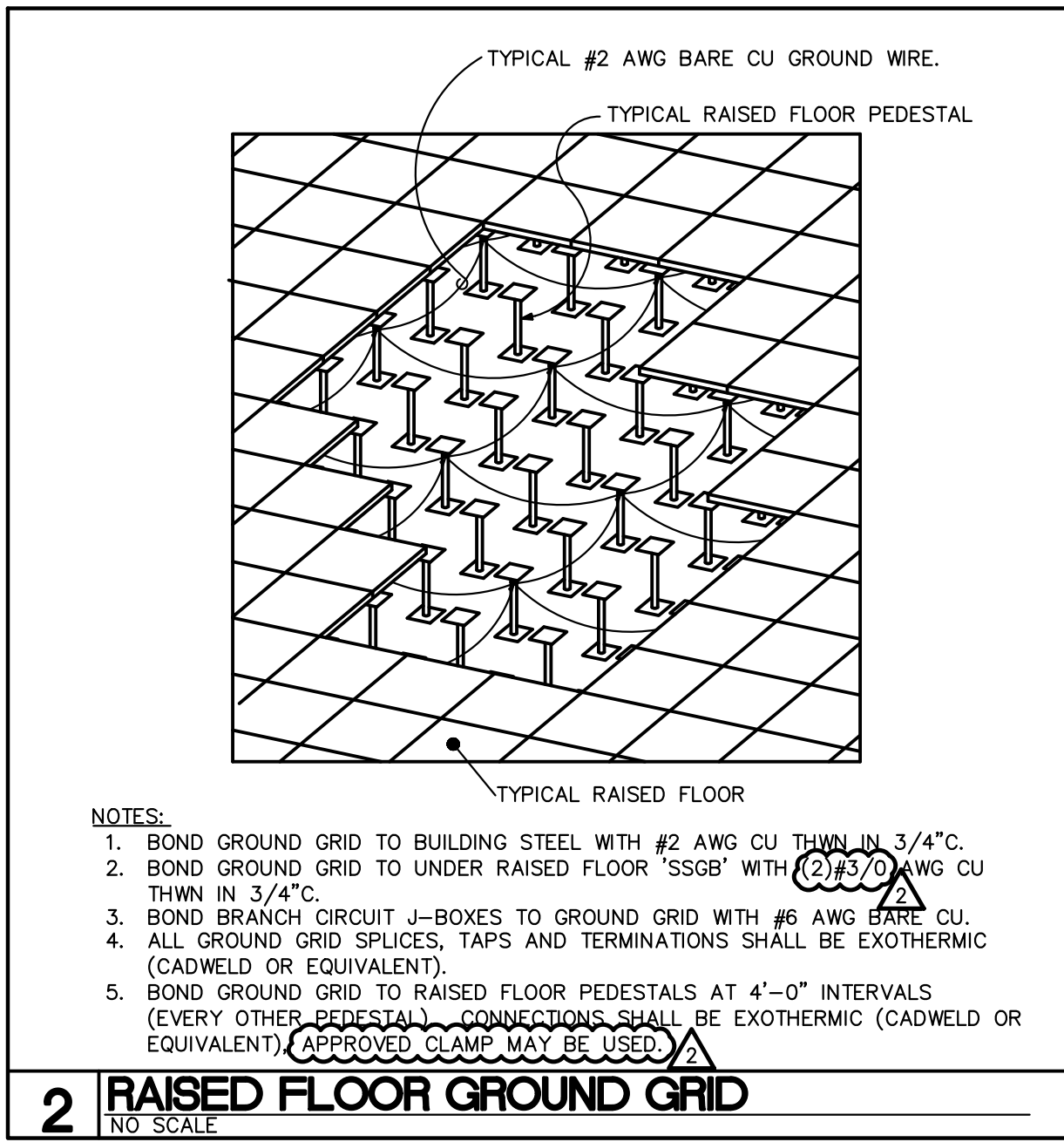
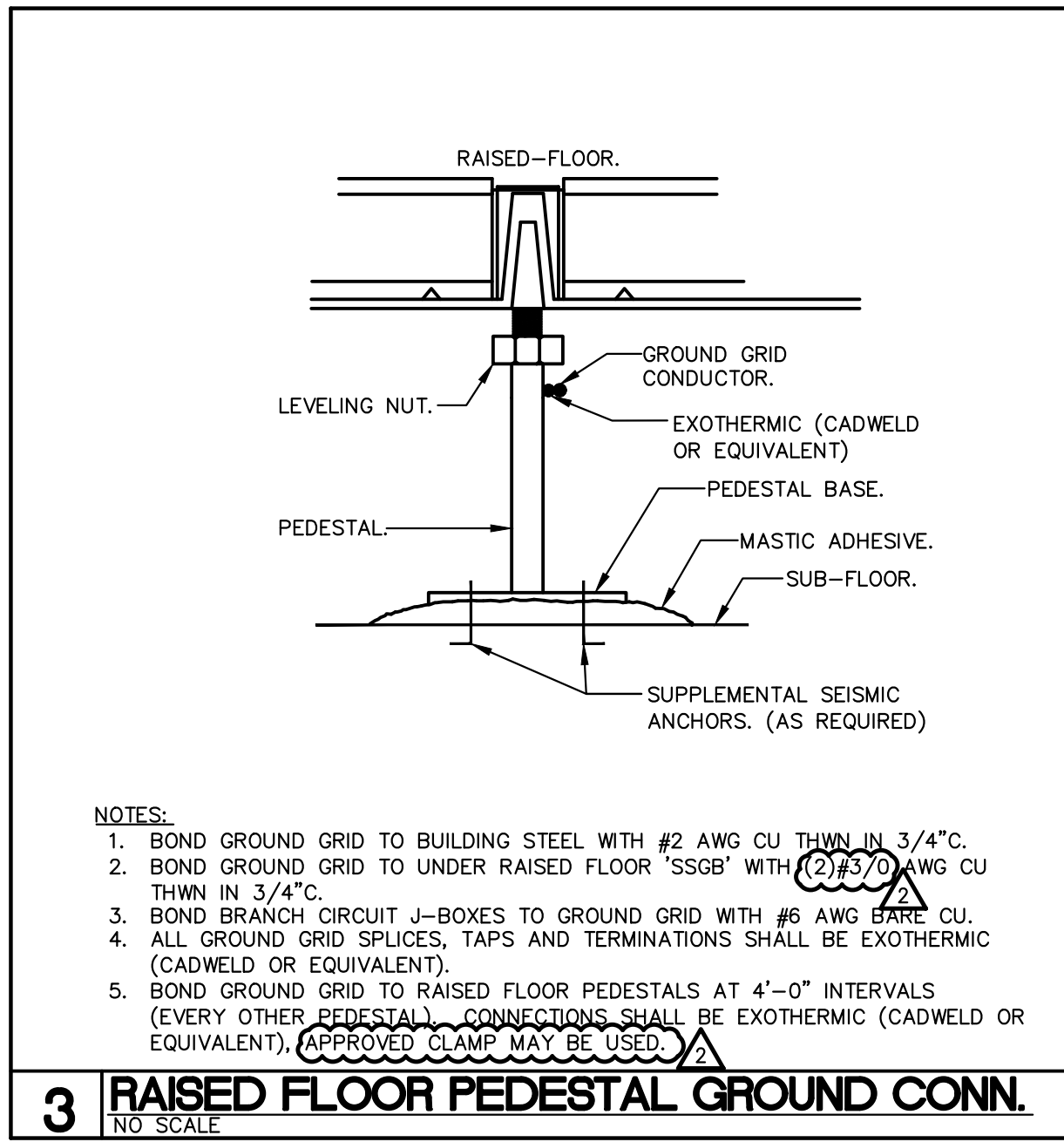
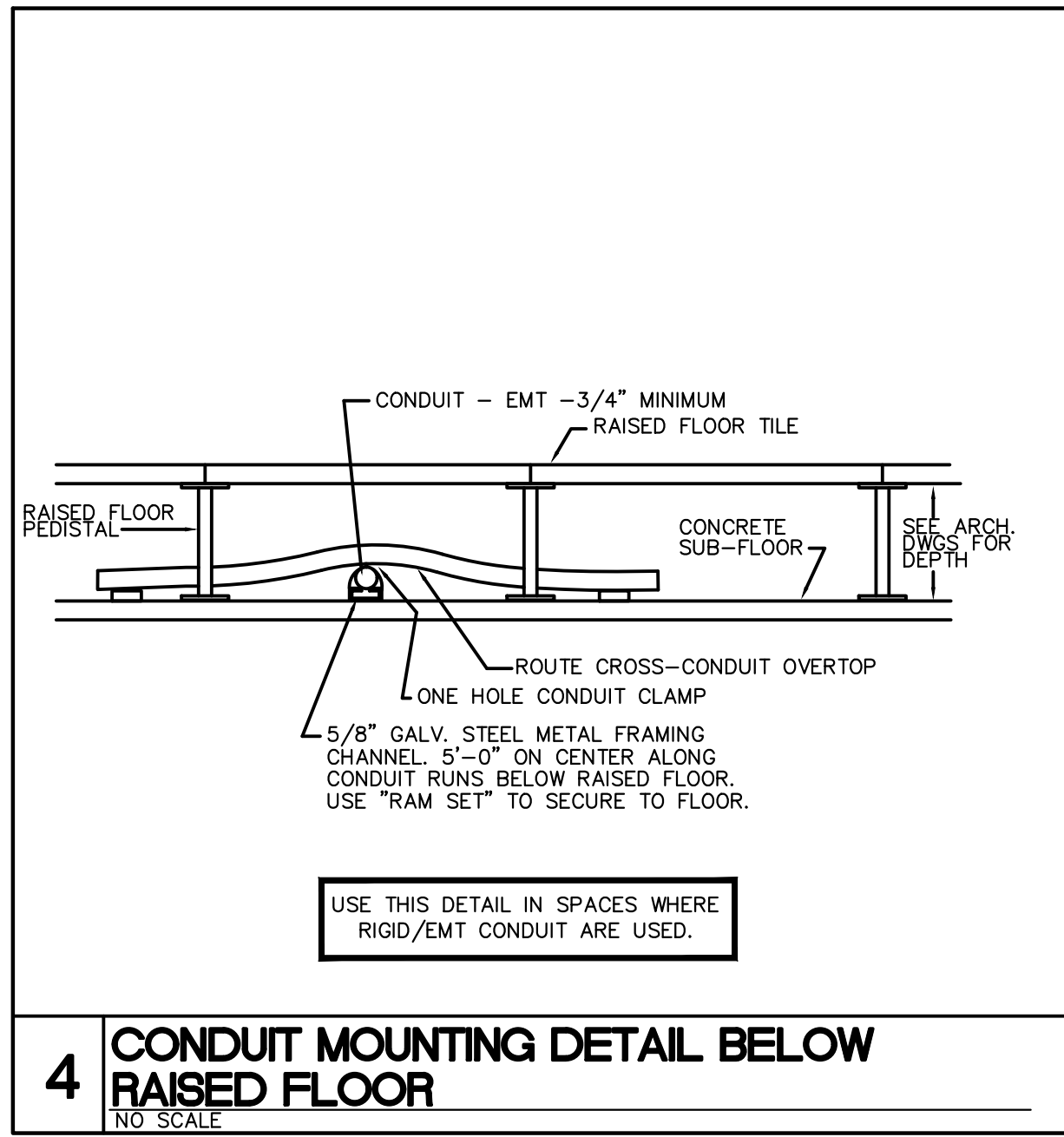
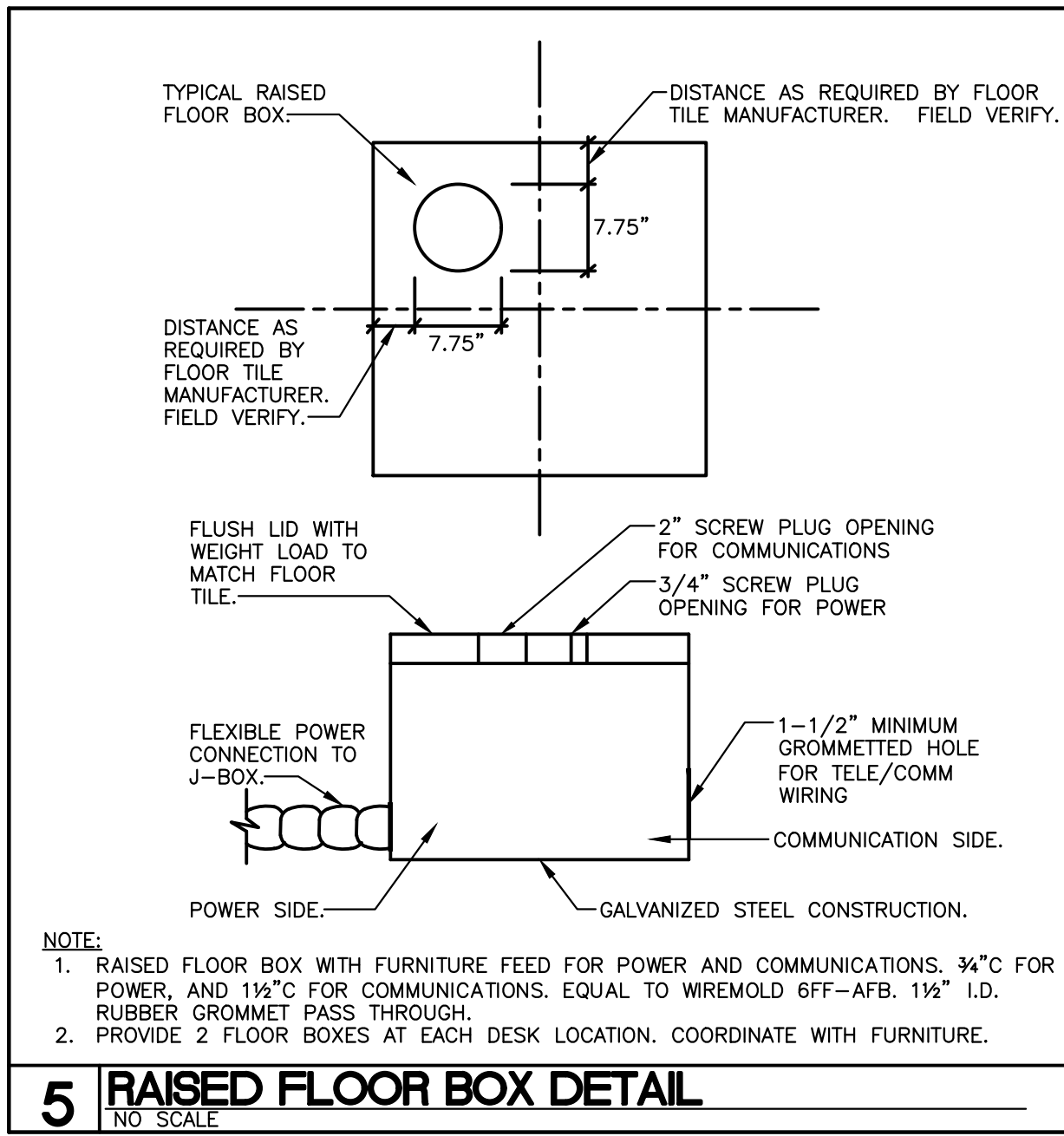


TABLE A - WORKING CLEARANCES

VOLTAGE TO GROUND NOMINAL	MINIMUM CLEAR DISTANCE (FEET)		
	CONDITION: 1	2	3
0 - 150	3	3	3
151 - 600	3	3 1/2	4

WHERE THE "CONDITIONS" ARE AS FOLLOWS:

- EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE OR EXPOSED PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR OTHER INSULATING MATERIALS. INSULATED WIRE OR INSULATED BUSBARS OPERATING AT NOT OVER 300V SHALL NOT BE CONSIDERED LIVE PARTS.
- EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
- EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

NOTES:
THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF THE ELECTRICAL EQUIPMENT REQUIRED BY SECTION 110-26 OF THE NATIONAL ELECTRICAL CODE.

15 WORKING CLEARANCE FOR ELECTRICAL EQUIPMENT

16 TELECOMMUNICATIONS RISER DIAGRAM



SAMPSON COUNTY 911 & ES FACILITIES

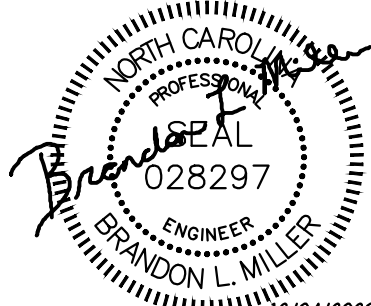
CLINTON,
NORTH CAROLINA

CONSTRUCTION DOCUMENTS

POWER RISER DIAGRAM

DATE	12.04.2020	
PROJECT NO	20003	
REVISIONS		
NUM.	DATE	DESCRIPTION:
1	12-17-2020	REVISION #1
2	01-09-2021	REV #2 / ADD1

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SEAL

E701

SHEET NUMBER

BMS SYSTEM POINT LIST (TYP. 2 GENS)									
DESIGNATION	DESCRIPTION	UNITS	HARDWIRED POINTS				SOFTWARE POINT	ALARM	TRENDING (Y-N)
			ANALOG INPUT	ANALOG OUTPUT	DIGITAL INPUT	DIGITAL OUTPUT			
P-1	VOLTS A-B	VOLTS					X	X	
P-2	VOLTS B-C	VOLTS					X	X	
P-3	VOLTS C-A	VOLTS					X	X	
P-4	CURRENT A	AMPS					X	X	
P-5	CURRENT B	AMPS					X	X	
P-6	CURRENT C	AMPS					X	X	
P-7	WATTS	KW					X	X	
P-8	VOLT AMPERES REACTIVE	KVAR					X	X	
P-9	VOLT AMPERES	KVA					X	X	
P-10	POWER FACTOR	PF					X	X	
P-11	FREQUENCY	HZ					X	X	
P-12	SUMMARY ALARM								X

GENERATORS SHALL BE CAPABLE OF COMMUNICATING VIA MODBUS PROTOCOL. THE GENERATORS SHALL BE WIRED TO THE MAIN SERVICE SWITCHBOARD MSB. AT THIS POINT, THE RS-485 WIRING SHALL BE EXTENDED TO THE BMS. COORDINATE THE SPECIFIC SETUP AND DETAILS OF THESE CONNECTIONS WITH THE BMS SYSTEM CONTROLS CONTRACTOR. COORDINATE DISTANCES OF MODBUS CONNECTIONS IN ORDER TO ACHIEVE OPTIMUM TRANSFER RATES. SEE DETAIL 9 ON DRAWING E007 FOR GENERATORS CONTROL/MONITORING BLOCK DIAGRAM.

UPS SYSTEM POINT LIST									
DESIGNATION	DESCRIPTION	UNITS	HARDWIRED POINTS				SOFTWARE POINT	ALARM	TRENDING (Y-N)
			ANALOG INPUT	ANALOG OUTPUT	DIGITAL INPUT	DIGITAL OUTPUT			
P-1	VOLTS IN A-B	VOLTS					X	X	
P-2	VOLTS IN B-C	VOLTS					X	X	
P-3	VOLTS IN C-A	VOLTS					X	X	
P-4	VOLTS OUT A-B	VOLTS					X	X	
P-5	VOLTS OUT B-C	VOLTS					X	X	
P-6	VOLTS OUT C-A	VOLTS					X	X	
P-7	CURRENT IN A	AMPS					X	X	
P-8	CURRENT IN B	AMPS					X	X	
P-9	CURRENT IN C	AMPS					X	X	
P-10	CURRENT OUT A	AMPS					X	X	
P-11	CURRENT OUT B	AMPS					X	X	
P-12	CURRENT OUT C	AMPS					X	X	
P-13	WATTS IN	KW					X	X	
P-14	VOLT AMPERES IN	KVA					X	X	
P-15	WATTS OUT	KW					X	X	
P-16	VOLT AMPERES OUT	KVA					X	X	
P-17	PF OUT	PF					X	X	
P-18	FREQUENCY OUT	HZ					X	X	
P-19	SUMMARY ALARM (UPS/BATT)								X

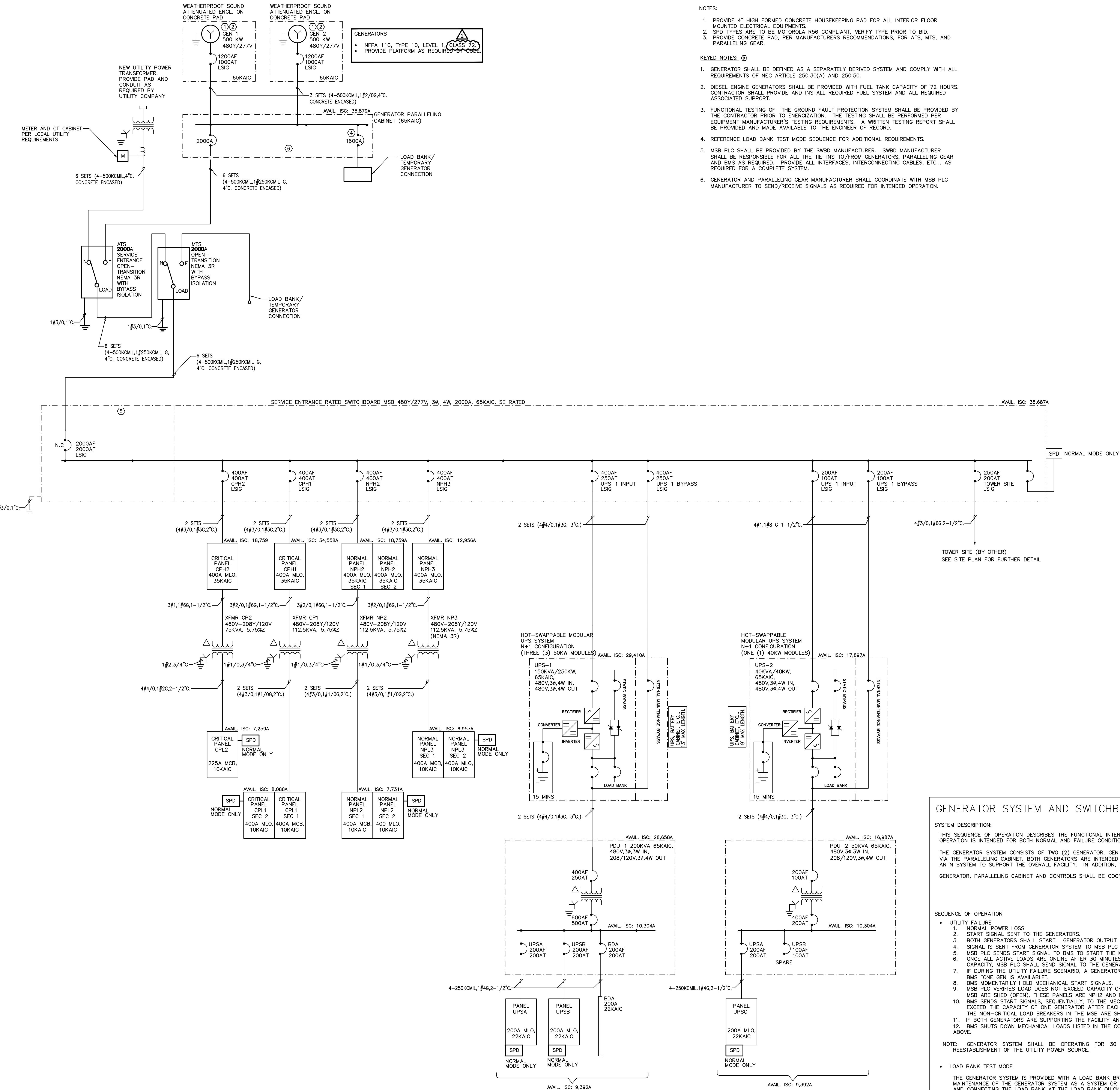
- NOTES:
- THE UPS HAS INTEGRAL MONITORING CARDS WHICH WILL COMMUNICATE TO THE BMS FOR REMOTE MONITORING PURPOSES. THE UNIT COLLECTS PERFORMANCE POINTS AND STORES THE VALUES OF THESE POINTS IN REGISTERS WHICH CAN LATER BE RETRIEVED VIA STANDARD MODBUS QUERIES. COORDINATE THE SPECIFIC SETUP AND DETAILS OF THESE CONNECTIONS WITH THE SYSTEM CONTROLS CONTRACTOR. COORDINATE DISTANCES OF CONNECTIONS IN ORDER TO ACHIEVE OPTIMUM TRANSFER RATES.
 - ALL NETWORK CABLING SHALL BE CATEGORY 5E CABLE. COORDINATE THE DETAILS OF THESE CONNECTIONS WITH THE SYSTEM CONTROLS CONTRACTOR.
 - PROVISIONING OF THE POINTS LISTED HERE SHALL BE COORDINATED WITH OWNER.
 - ALL DEVICES SHALL BE PROGRAMMED SO THAT A LOSS OF COMMUNICATION WITH THE DEVICE WILL TRIGGER AN ALARM EVENT.

NOTES:

- PROVIDE 4" HIGH FORMED CONCRETE HOUSEKEEPING PAD FOR ALL INTERIOR FLOOR MOUNTED ELECTRICAL EQUIPMENTS.
- SPD TYPES ARE TO BE MOTOROLA R56 COMPLIANT, VERIFY TYPE PRIOR TO BID.
- PROVIDE CONCRETE PAD, PER MANUFACTURERS RECOMMENDATIONS, FOR ATS, MTS, AND PARALLELING GEAR.

KEYED NOTES: ⑥

- GENERATOR SHALL BE DEFINED AS A SEPARATELY DERIVED SYSTEM AND COMPLY WITH ALL REQUIREMENTS OF NEC ARTICLE 250.30(A) AND 250.50.
- DIESEL ENGINE GENERATORS SHALL BE PROVIDED WITH FUEL TANK CAPACITY OF 72 HOURS. CONTRACTOR SHALL PROVIDE AND INSTALL REQUIRED FUEL SYSTEM AND ALL REQUIRED ASSOCIATED SUPPORT.
- FUNCTIONAL TESTING OF THE GROUND FAULT PROTECTION SYSTEM SHALL BE PROVIDED BY THE CONTRACTOR PRIOR TO ENERGIZATION. THE TESTING SHALL BE PERFORMED PER EQUIPMENT MANUFACTURER'S TESTING REQUIREMENTS. A WRITTEN TESTING REPORT SHALL BE PROVIDED AND MADE AVAILABLE TO THE ENGINEER OF RECORD.
- REFERENCE LOAD BANK TEST MODE SEQUENCE FOR ADDITIONAL REQUIREMENTS.
- MSB PLC SHALL BE PROVIDED BY THE SWBD MANUFACTURER. SWBD MANUFACTURER SHALL BE RESPONSIBLE FOR ALL THE TIE-INS TO/FROM GENERATORS, PARALLELING GEAR AND BMS AS REQUIRED. PROVIDE ALL INTERFACES, INTERCONNECTING CABLES, ETC... AS REQUIRED FOR A COMPLETE SYSTEM.
- GENERATOR AND PARALLELING GEAR MANUFACTURER SHALL COORDINATE WITH MSB PLC MANUFACTURER TO SEND/RECEIVE SIGNALS AS REQUIRED FOR INTENDED OPERATION.



GENERATOR SYSTEM AND SWITCHBOARD MSB SEQUENCE OF OPERATION

SYSTEM DESCRIPTION:

THIS SEQUENCE OF OPERATION DESCRIBES THE FUNCTIONAL INTENT OF THE GENERATOR SYSTEM AND CONTROL FOR THE MAIN SWITCHBOARD EQUIPMENT. THE SEQUENCE OF OPERATION IS INTENDED FOR BOTH NORMAL AND FAILURE CONDITIONS AND HOW THE SYSTEM WILL REACT TO THESE EVENTS.

THE GENERATOR SYSTEM CONSISTS OF TWO (2) GENERATOR, GEN 1 AND GEN 2. EACH GENERATOR IS RATED FOR 500KW. THE GENERATORS ARE CONNECTED IN PARALLEL VIA THE PARALLELING CABINET. BOTH GENERATORS ARE INTENDED TO OPERATE AS AN 2N (REDUNDANCY) SYSTEM TO SUPPORT THE ECOM-911 AND SUPPORT SPACES AND AS AN N SYSTEM TO SUPPORT THE OVERALL FACILITY. IN ADDITION, THE GENERATOR SYSTEM IS PROVIDED WITH ISOLATED LOAD-BANK BREAKER

GENERATOR, PARALLELING CABINET AND CONTROLS SHALL BE COORDINATED AS A COMPLETE FUNCTIONING PACKAGE.

SEQUENCE OF OPERATION

- UTILITY FAILURE.
 - NORMAL POWER LOSS.
 - START SIGNAL SENT TO THE GENERATORS.
 - BOTH GENERATORS SHALL START. GENERATOR OUTPUT BREAKER SHALL CLOSE TO THE GENERATOR PARALLELING CABINET ONCE VOLTAGE/FREQUENCY IS UP TO RATED.
 - SIGNAL IS SENT FROM GENERATOR SYSTEM TO MSB PLC "BOTH GENS AVAILABLE".
 - MSB PLC SENDS START SIGNAL TO BMS TO START THE MECHANICAL LOAD PER MECHANICAL CONTROL SEQUENCE (SEE MECHANICAL DRAWING). NO LOAD SHED IS REQUIRED.
 - ONCE ALL ACTIVE LOADS ARE ONLINE AFTER 30 MINUTES, MSB PLC WILL MONITOR THE LOAD DEMAND, IF THE RUNNING LOAD IS LESS THAN 95% OF ONE GENERATOR CAPACITY, MSB PLC SHALL SEND SIGNAL TO THE GENERATOR SYSTEM, TO SHUT DOWN 1 GENERATOR.
 - IF DURING THE UTILITY FAILURE SCENARIO, A GENERATOR FAILS TO START AFTER AN ADJUSTABLE TIME DELAY (SET TO 30 SECONDS), A SIGNAL IS SENT TO MSB PLC AND BMS "ONE GEN IS AVAILABLE".
 - BMS MOMENTARILY HOLD MECHANICAL START SIGNALS.
 - MSB PLC VERIFIES LOAD DOES NOT EXCEED CAPACITY OF ONE GENERATOR. IF THE CAPACITY OF ONE GENERATOR IS EXCEEDED, THE NON-CRITICAL LOAD BREAKERS IN MSB ARE SHED (OPEN). THESE PANELS ARE NPH2 AND NPH3. IF THE CAPACITY OF ONE GENERATOR IS NOT EXCEEDED, PROCEED TO NEXT STEP.
 - BMS SENDS START SIGNALS, SEQUENTIALLY, TO THE MECHANICAL LOADS PER THE CONTROL SEQUENCE (SEE MECHANICAL DRAWING). MSB PLC VERIFIES LOAD DOES NOT EXCEED THE CAPACITY OF ONE GENERATOR AFTER EACH LOAD ADD. IF THE CAPACITY OF ONE GENERATOR IS REACHED BEFORE THE ALL MECHANICAL LOADS ARE ADDED, THE NON-CRITICAL LOAD BREAKERS IN THE MSB ARE SHED (OPEN). BMS START SIGNALS CONTINUE.
 - IF BOTH GENERATORS ARE SUPPORTING THE FACILITY AND ONE GENERATOR FAILS, A SIGNAL IS SENT TO MSB PLC & BMS - "ONE GEN AVAILABLE".
 - BMS SHUTS DOWN MECHANICAL LOADS LISTED IN THE CONTROL SEQUENCE (IN REVERSE ORDER OF STARTING, SEE MECHANICAL DRAWING). PROCEED WITH STEP 9 AND 10 ABOVE.

NOTE: GENERATOR SYSTEM SHALL BE OPERATING FOR 30 MINUTES (ADJUSTABLE TIME DELAY) ONCE ONLINE TO AVOID RETRANSFER IN THE EVENT OF SHORT-TIME REESTABLISHMENT OF THE UTILITY POWER SOURCE.

LOAD BANK TEST MODE

THE GENERATOR SYSTEM IS PROVIDED WITH A LOAD BANK BREAKER AND QUICK CONNECTOR AT THE GENERATOR PARALLELING CABINET WHICH PERMITS LOAD BANK TESTING AND MAINTENANCE OF THE GENERATOR SYSTEM AS A SYSTEM OR SINGLE UNIT. LOAD BANK TESTING IS ACHIEVED BY CLOSING THE LOAD BANK BREAKER ON THE PARALLELING GEAR AND CONNECTING THE LOAD BANK AT THE LOAD BANK QUICK CONNECT. IF THERE IS LOST OF UTILITY DURING A LOAD BANK TESTING, THE GENERATOR LOAD BANK SHALL OPEN AND THE PLC CONTROL SHALL START THE SEQUENCE AND THE GENERATOR SYSTEM SHALL BE OPERATED PER SEQUENCE ABOVE.

CLINTON,
NORTH CAROLINA

ELECTRICAL PANEL SCHEDULES

NUM.	DATE	DESCRIPTION
	01-09-2021	REV #2 / ADD1



SHEET NUMBER