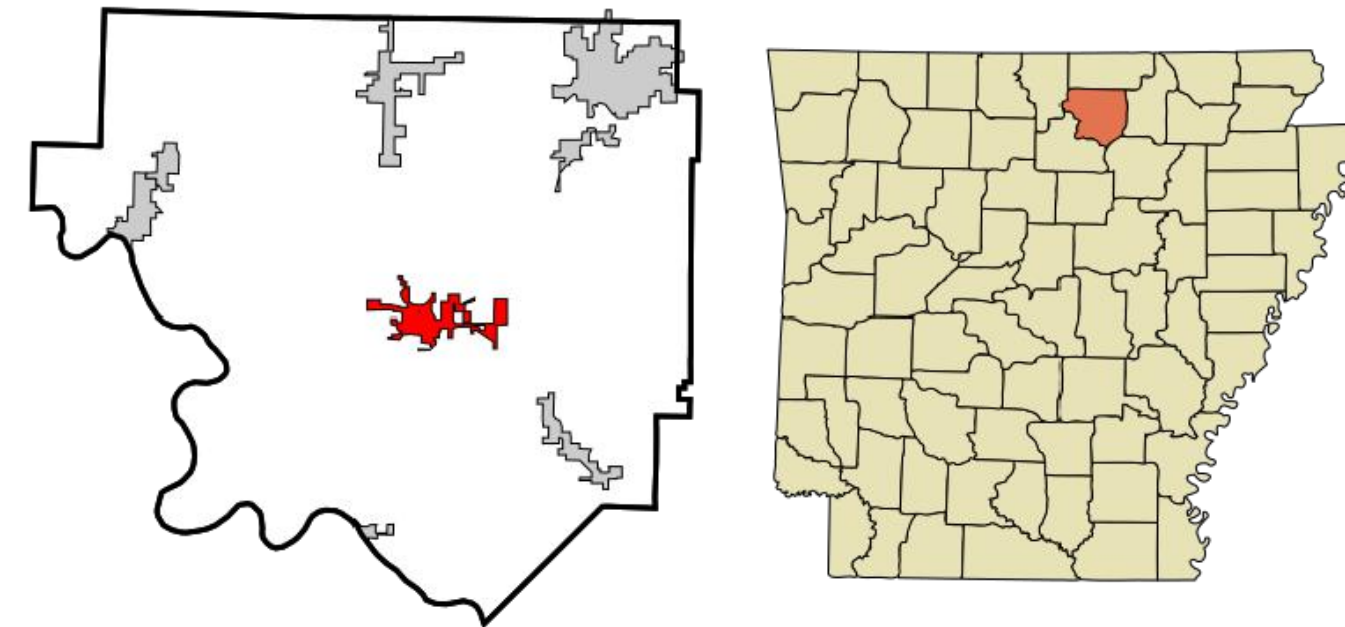
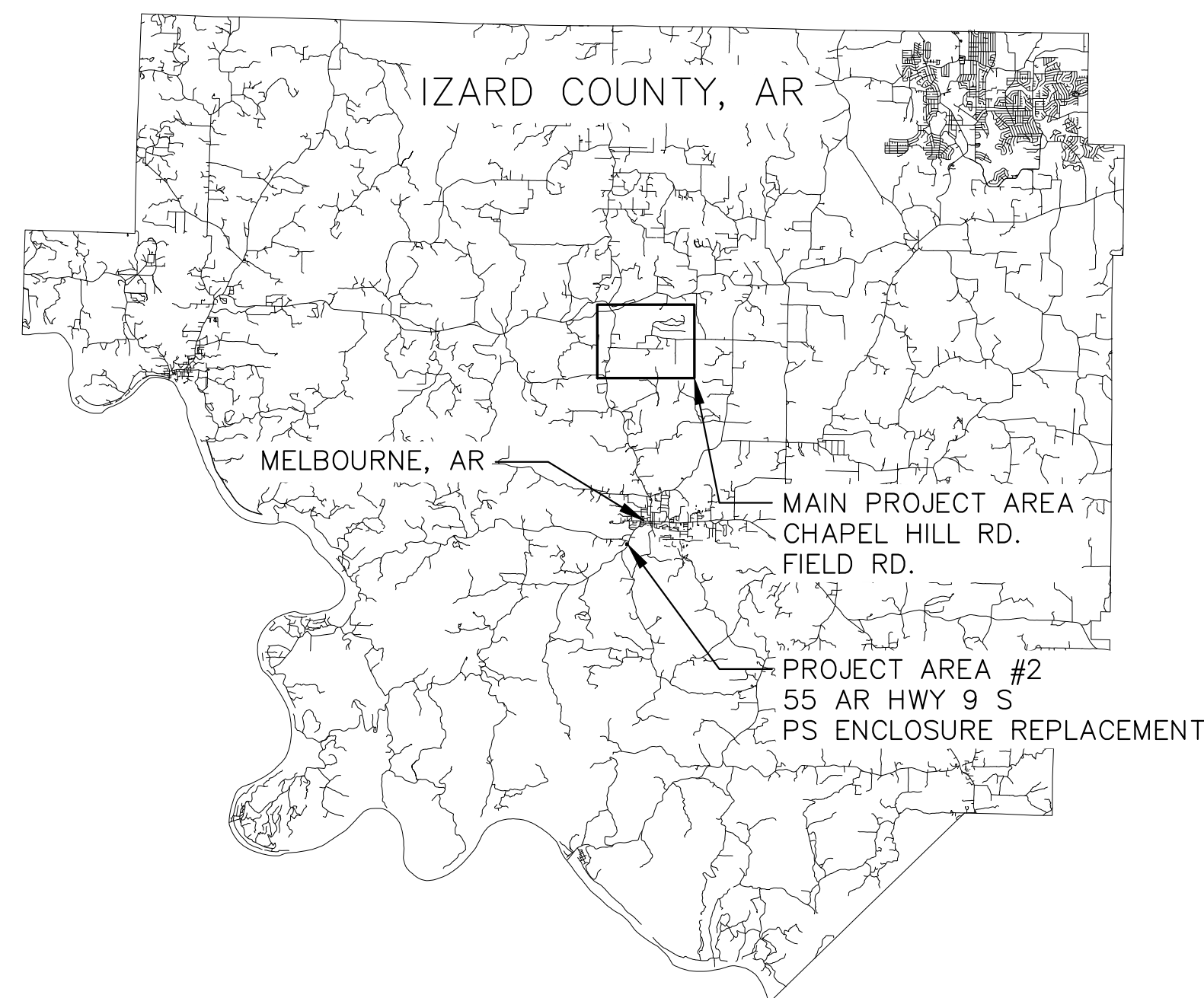


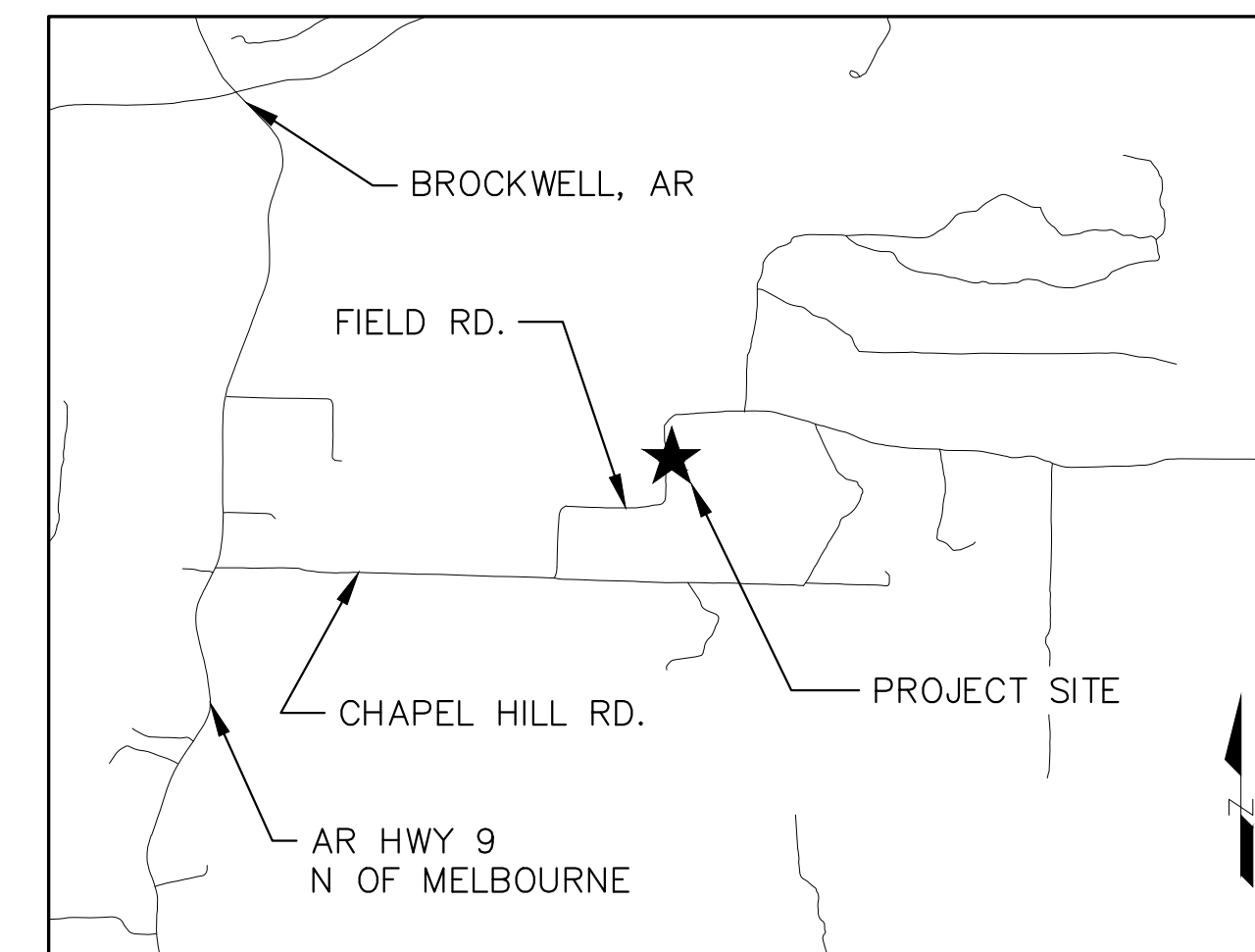
# CITY OF MELBOURNE WATER DEPARTMENT



## CHAPEL HILL WATER BOOSTER PUMP STATION



VICINITY MAP



MAIN PROJECT AREA

Arkansas One Call



Know what's below.  
Call before you dig.

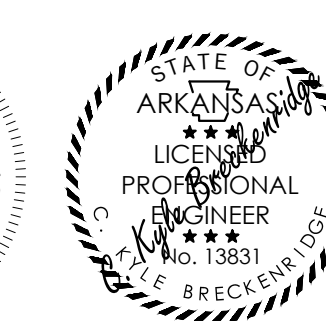


Engineers  
& Planners

saltengineers.com | 501-766-9832  
kbreckenridge@saltengineers.com

THIS LINE MEASURES 1"  
WHEN PLOTTED FULL-SIZE

DATE:



3/12/24

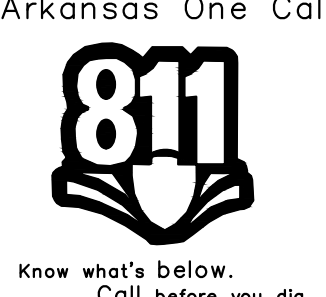


CITY OF MELBOURNE  
**CHAPEL HILL  
WATER BOOSTER STATION**

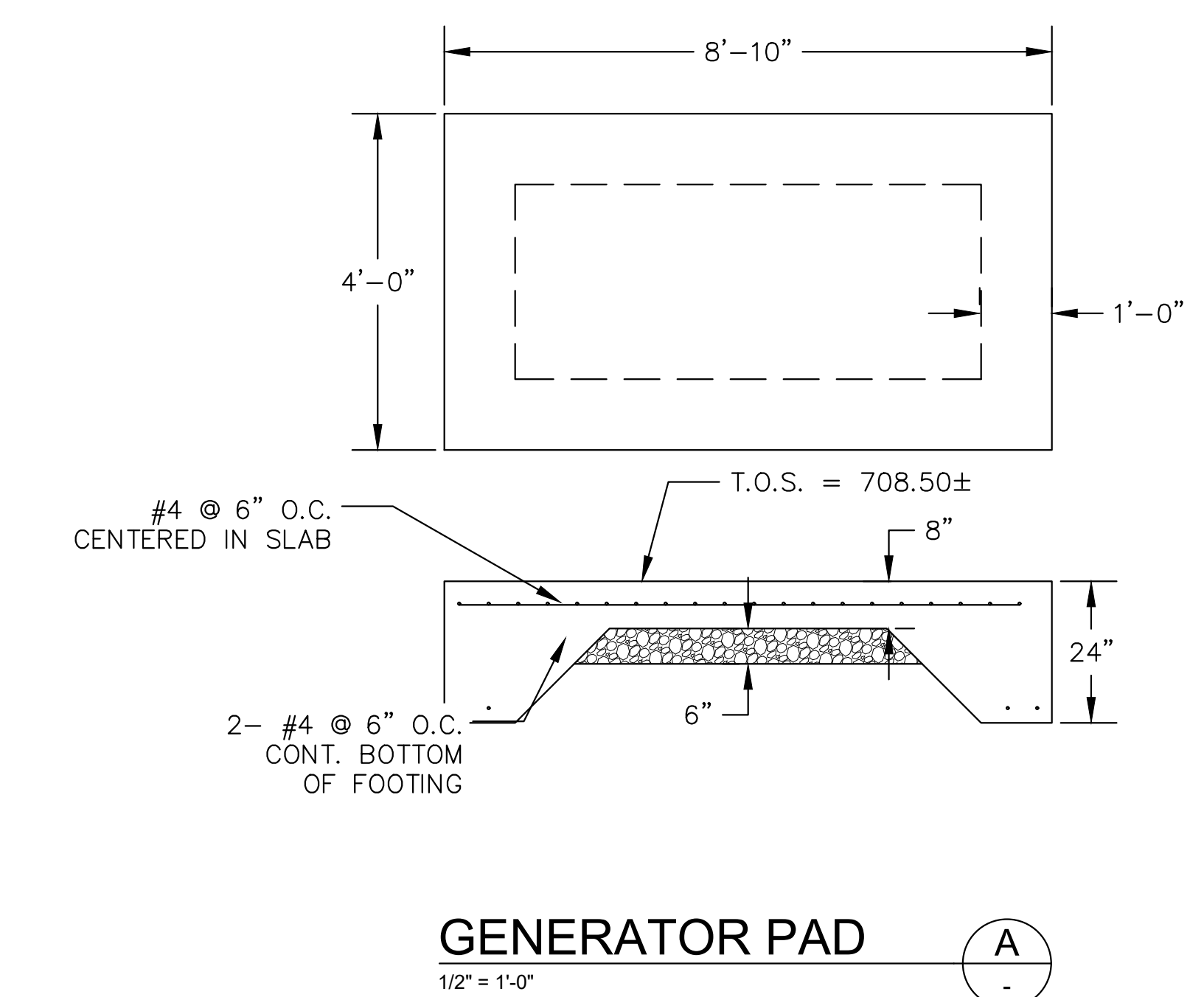
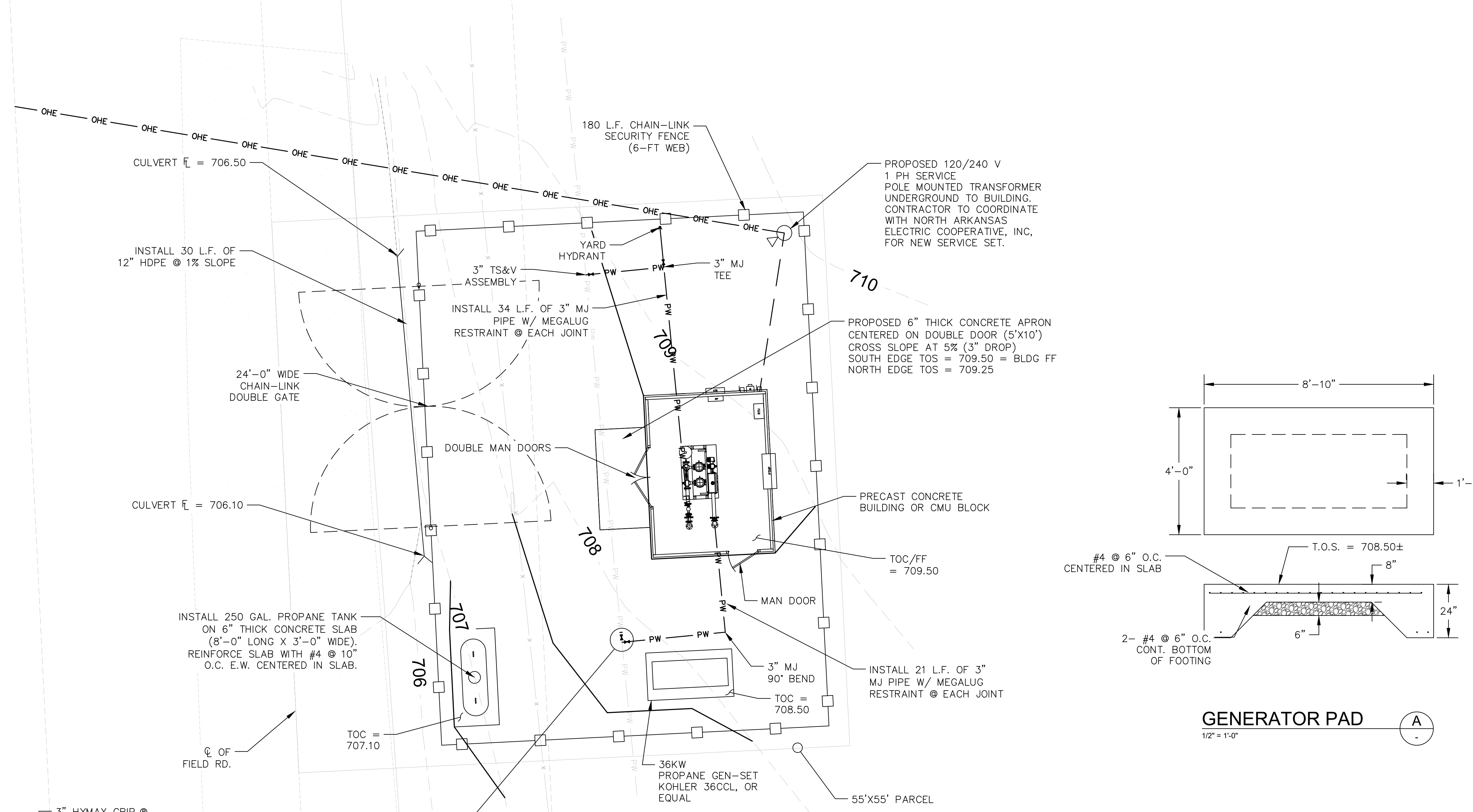
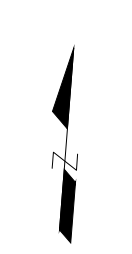
COVER

PROJECT #  
39-24-01

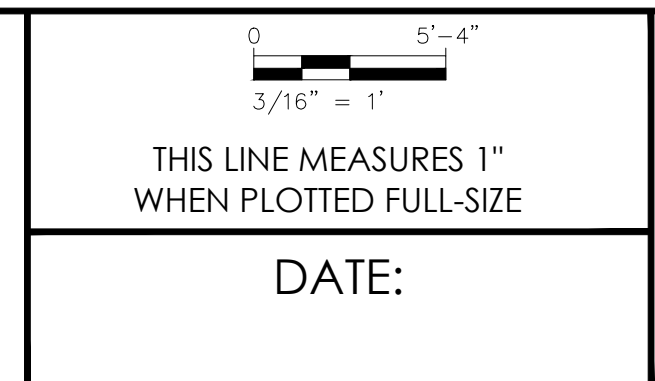
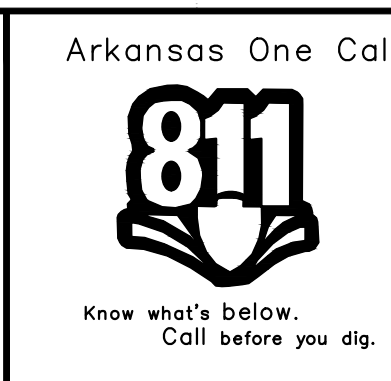
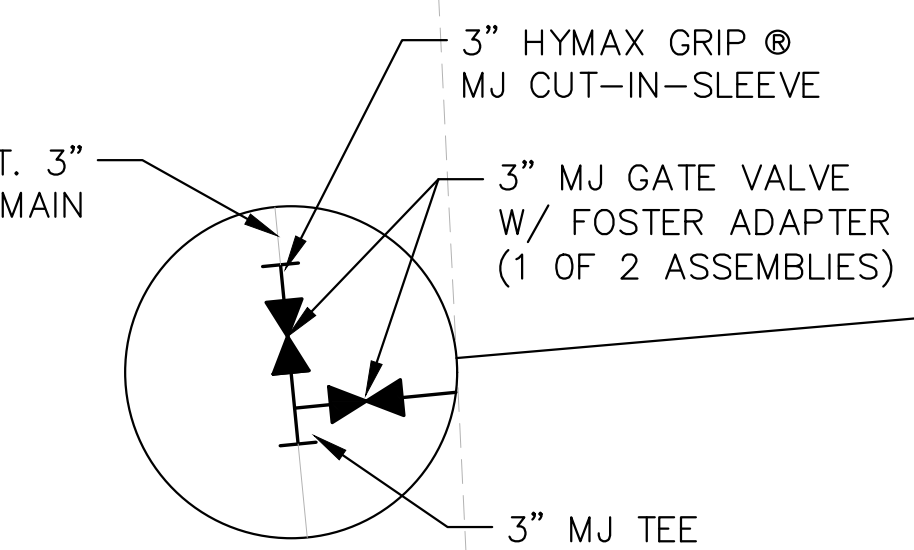
SHEET  
1

SHEET #	TITLE	GENERAL NOTES:
1	COVER	1. ALL CONSTRUCTION POINTS SHOWN ON THE SITE PLAN ARE IN NAD-83 STATE PLANE COORDINATES.
2	TOC & GENERAL NOTES	2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD BEFORE STARTING THE WORK. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN THE DIMENSIONS SHOWN ON THE DRAWINGS AND THE FIELD CONDITIONS.
3	SITE PLAN	
3-S	SITE LAYOUT	3. COORDINATE AND VERIFY ALL MECHANICAL AND ELECTRICAL EQUIPMENT ANCHORAGE INTO STRUCTURAL CONCRETE PRIOR TO CONCRETE PLACEMENT. NO ANCHORAGE SYSTEM SHALL CAUSE DAMAGE TO THE STRUCTURAL CONCRETE.
4	MECHANICAL PLAN	4. ALL EXCAVATION IS UNCLASSIFIED. NO ADDITIONAL PAYMENT WILL BE WARRANTED REGARDLESS OF MATERIAL ENCOUNTERED. NO BLASTING WILL BE ALLOWED.
5	MECHANICAL SECTION	5. MAINTAIN GROUNDWATER LEVEL A MIN. OF 2 FT. BELOW THE BOTTOM OF ALL STRUCTURAL EXCAVATIONS FOR THE DURATION OF THE CONSTRUCTION OR UNTIL STRUCTURE FLOTATION IS NO LONGER A CONCERN.
6	BUILDING PLAN	6. NO BACKFILL SHALL BE PLACED AGAINST ANY STRUCTURAL CONCRETE UNTIL THE MATERIAL HAS REACHED THE SPECIFIED DESIGN STRENGTH.
7	BUILDING ELEVATIONS	7. ALL EXTERIOR CONCRETE SHALL BE ENTRAINED WITH AIR PER THE SPECIFICATIONS.
8	ROOF DETAILS (CMU BLOCK BUILDING ONLY)	8. STRUCTURAL CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,500 PSI.
9	STRUCTURE DETAILS	9. ALL EXPOSED CORNERS OF CONCRETE SHALL HAVE A 3/4" CHAMFER.
10	FENCE DETAILS	10. THE CONTRACTOR MUST COORDINATE WITH THE OWNER BEFORE MAKING ANY WATER MAIN TAPS.
11	STANDARD WATER DETAILS	11. ALL WORK SHALL CONFORM TO THE CITY OF MELBOURNE WATER DEPARTMENT STANDARDS SPECIFICATIONS AND DETAILS.
12	EROSION CONTROL DETAILS	12. THE SITE IS LESS THAN 1 ACRE AND QUALIFIES FOR AUTOMATIC COVERAGE UNDER THE CONSTRUCTION STORMWATER GENERAL PERMIT. INSTALL AND MAINTAIN SILT FENCES, DITCH CHECKS, AND OTHER BEST MANAGEMENT PRACTICES TO MITIGATE ANY STORMWATER RUN-OFF FROM THE SITE. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL BEST MANAGEMENT PRACTICES AND INSPECTION FORMS AS REQUIRED BY THE GENERAL PERMIT.
13	ELECTRICAL SITE PLAN	13. IF REQUIRED BY ADEQ, THE CONTRACTOR SHALL OBTAIN COVERAGE IN THE UTILITY'S NAME AND SUBMIT A NOTICE OF COVERAGE OR NOTICE OF INTENT, STORMWATER POLLUTION PREVENTION PLAN, PERTINENT FEES, AND OTHER REQUIREMENTS OF THE CONSTRUCTION GENERAL PERMIT.
14	PUMP STATION ELECTRICAL PLAN	14. THE CONTRACTOR SHALL FURNISH ONE COMPLETE SET OF CONSTRUCTION DRAWINGS APPROPRIATELY MARKED-UP TO REFLECT ACTUAL "AS-BUILT" ELEVATIONS, DIMENSIONS, LOCATIONS, ETC. TO BE SUBMITTED WITH THE CONTRACTOR'S AFFIDAVIT AT THE CLOSE OF THE PROJECT.
15	PUMP STATION ELECTRICAL ONE-LINE	
16	PUMP STATION ELECTRICAL DETAILS	
17	HWY 9 S PS ENCLOSURE REPLACEMENT	

 <p>Arkansas One Call 811 Know what's below. Call before you dig.</p>		 <p><b>SALT</b> Engineers &amp; Planners saltengineers.com   501-766-9832 kbreckenridge@saltengineers.com</p>	<p>THIS LINE MEASURES 1" WHEN PLOTTED FULL-SIZE</p> <p>DATE:</p>		<p>CITY OF MELBOURNE <b>CHAPEL HILL WATER BOOSTER STATION</b></p>	<p>TOC &amp; GENERAL NOTES</p> <table border="1"> <tr> <td data-bbox="2703 1884 2874 1965">PROJECT # 39-24-01</td> <td data-bbox="2874 1884 3061 1965">SHEET 2</td> </tr> </table>	PROJECT # 39-24-01	SHEET 2
PROJECT # 39-24-01	SHEET 2							

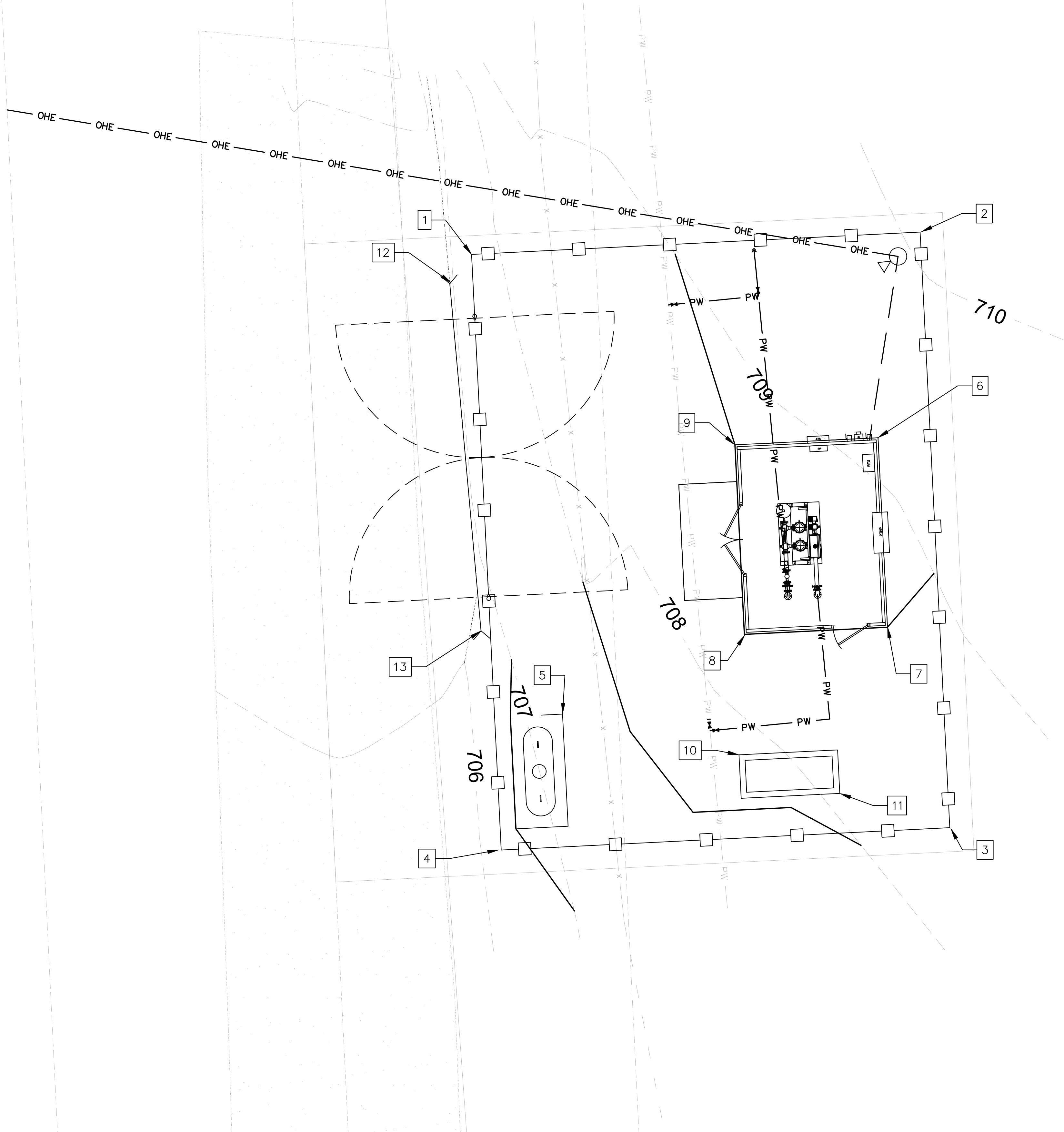


**GENERATOR PAD** (A)  
1/2" = 1'-0"

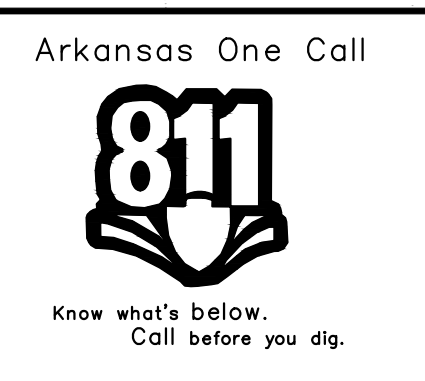


CITY OF MELBOURNE		PROPOSED SITE PLAN	
<b>CHapel Hill WATER BOOSTER STATION</b>		PROJECT #	SHEET
		39-24-01	3

4/6/24

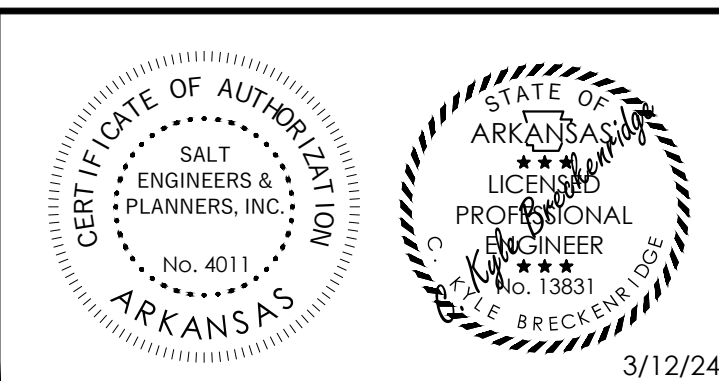


Point Table				
Point #	Prop. Elev.	Northing	Easting	Description
1		654709.73	1339092.78	NORTH WEST FENCE CORNER
2		654711.65	1339131.40	NORTH EAST FENCE CORNER
3		654660.38	1339133.95	SOUTH EAST FENCE CORNER
4		654658.46	1339095.33	SOUTH WEST FENCE CORNER
5		654670.16	1339100.61	NORTH EAST CORNER PROPANE TANK SLAB
6		654693.77	1339127.61	NORTH EAST BUILDING CORNER
7		654677.80	1339128.41	SOUTH EAST BUILDING CORNER
8		654677.20	1339116.42	SOUTH WEST BUILDING CORNER
9		654693.18	1339115.63	NORTH WEST BUILDING CORNER
10		654666.66	1339115.80	NORTH WEST GENERATOR SLAB CORNER
11		654663.33	1339124.48	SOUTH EAST GENERATOR SLAB CORNER
12		654707.20	1339090.90	NORTH CULVERT END
13		654677.33	1339093.59	SOUTH CULVERT END



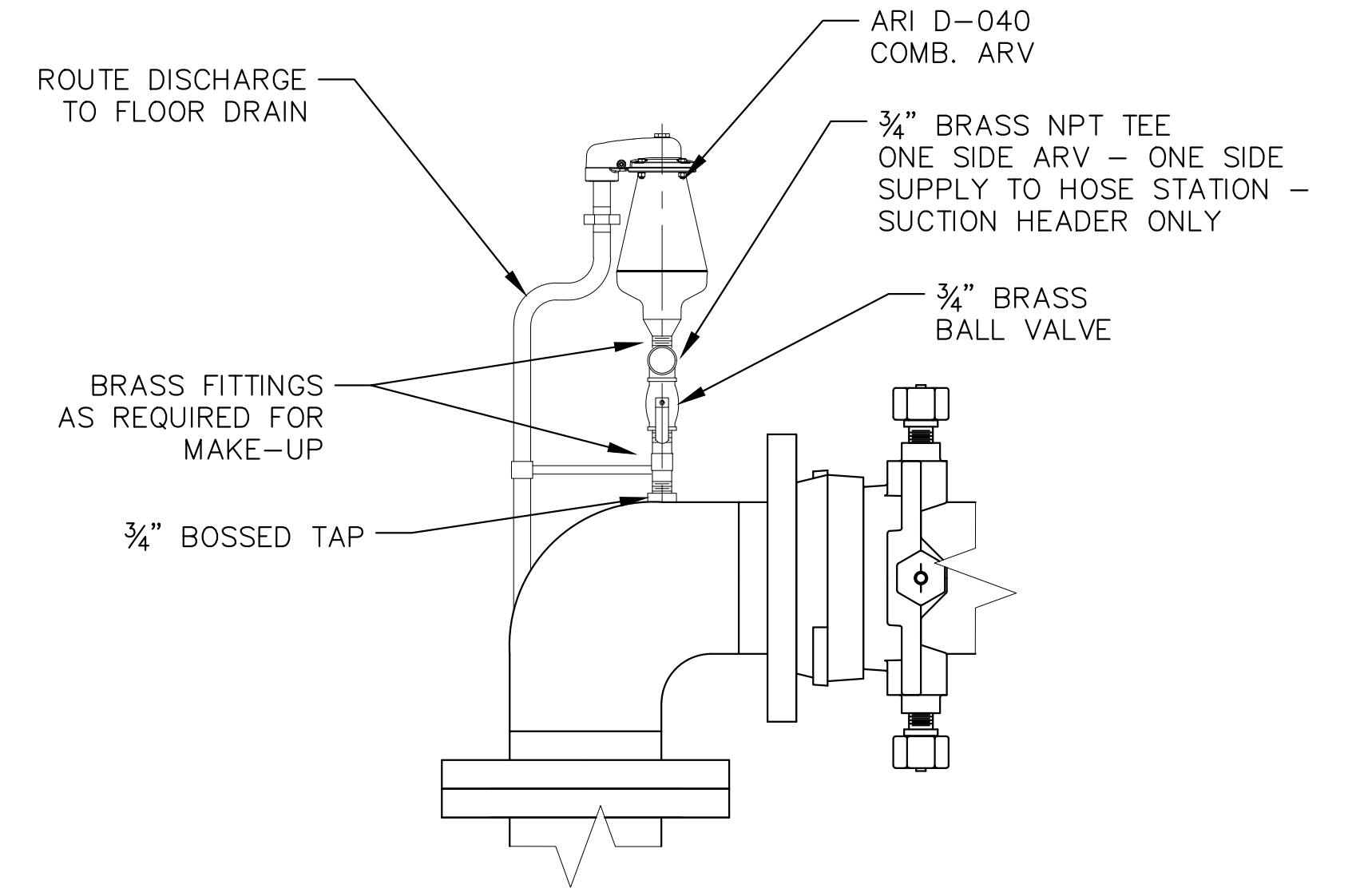
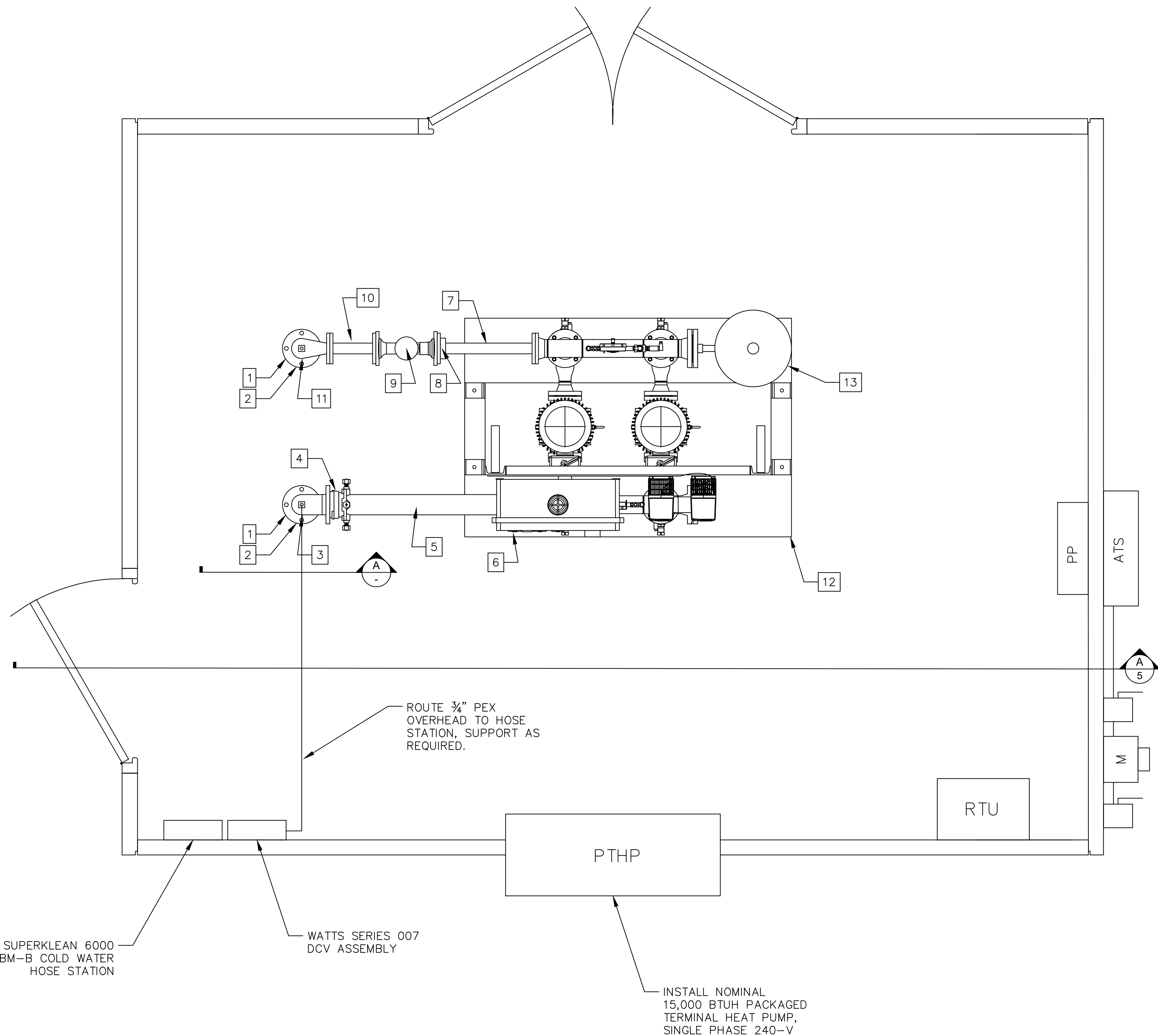
**SALT** Engineers & Planners  
 saltengineers.com | 501-766-9832  
 kbreckenridge@saltengineers.com

0 5'-4"  
 3/16" = 1'  
 THIS LINE MEASURES 1" WHEN PLOTTED FULL-SIZE  
 DATE:



CITY OF MELBOURNE  
**CHAPEL HILL WATER BOOSTER STATION**

PROPOSED SITE LAYOUT	
PROJECT # 39-24-01	SHEET 3-S

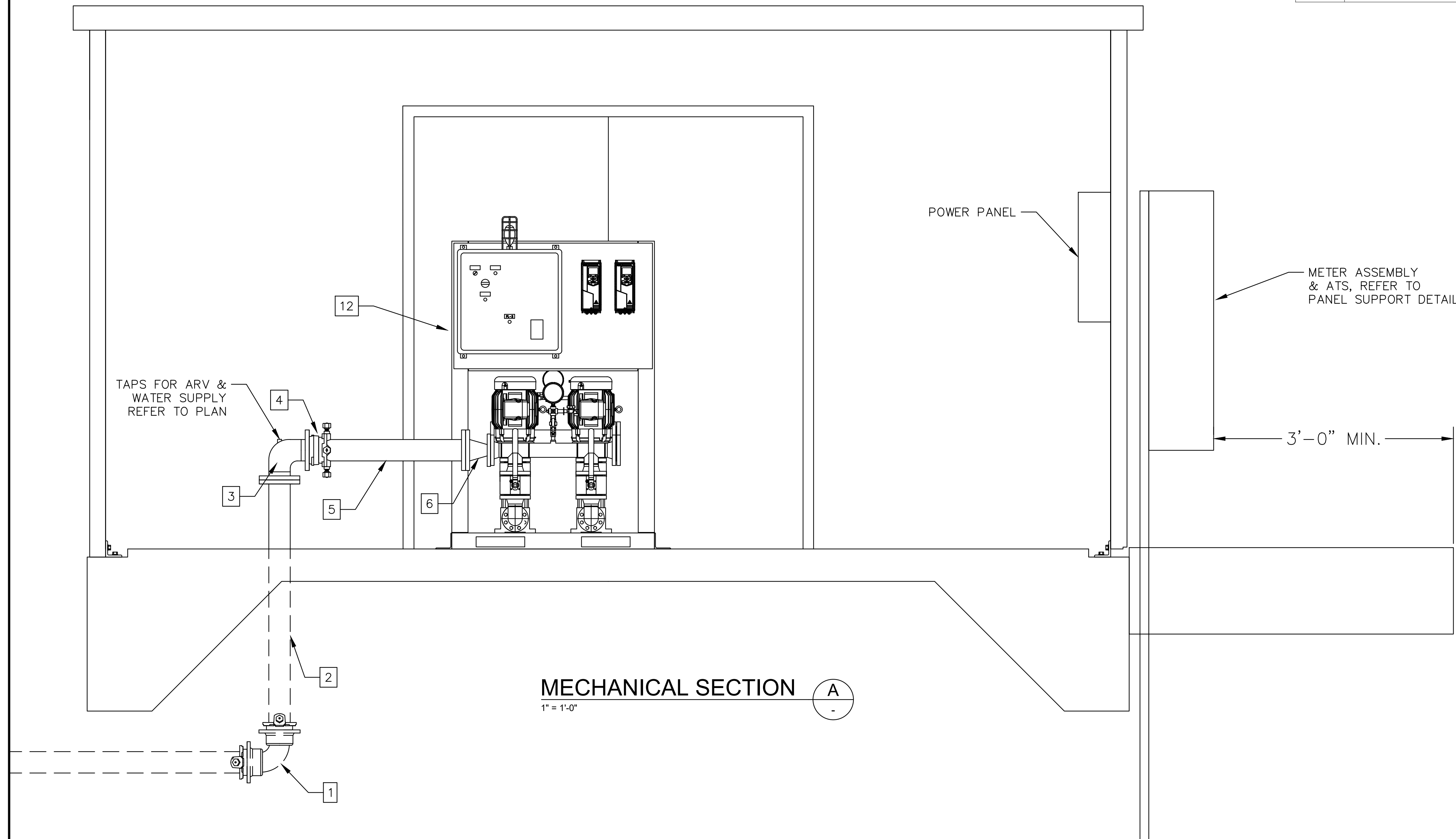


**COMBINATION AIR RELEASE VALVE  
SUCTION & DISCHARGE HEADER** A  
SCALE: N.T.S.

ITEM	DESCRIPTION
1	3" D.I. R.J. 90° BEND – UNDER SLAB
2	3" D.I. PIPE SPOOL (PEXFL, LENGTH AS REQ.) – THROUGH SLAB
3	3" D.I. FL. 90° BEND (W/ 3/4" BOSSSED TAP FOR COMB ARV & HOSE STATION SUPPLY)
4	3" MEGA-FLANGE ADAPTER
5	3" D.I. PIPE SPOOL (FLXPE, LENGTH AS REQ.)
6	3"x2" D.I. FL. CONC. REDUCER
7	2" D.I. PIPE SPOOL (FLXPE, LENGTH AS REQ.)
8	2" ZIP-FLANGE OR UNI-FLANGE ADAPTER
9	2" BADGER METER E-SERIES COMMERCIAL ULTRA-SONIC METER
10	2" D.I. PIPE SPOOL (FLXFL, 9-IN L.L.)
11	3"x2" D.I. FL. RED. 90° BEND (W/ 3/4" BOSSSED TAP FOR COMB ARV)
12	CLAY-GREENE DUPLEX BOOSTER PUMP SKID – W/ GOULDS 10eSV VIL PUMPS
13	AMTROL WX-202 BLADDER EXPANSION TANK – MOUNTED ON PUMP SKID

Arkansas One Call  Know what's below. Call before you dig.	 <b>Engineers &amp; Planners</b> saltengineers.com   501-766-9832 kbreckenridge@saltengineers.com	THIS LINE MEASURES 1" WHEN PLOTTED FULL-SIZE <hr/> DATE:		CITY OF MELBOURNE <b>CHAPEL HILL          WATER BOOSTER STATION</b>	<b>MECHANICAL          PLANS</b> <hr/> PROJECT # 39-24-01 <hr/> SHEET 4
--	---	--	---	--	---

ITEM	DESCRIPTION
1	3" D.I. R.J. 90° BEND – UNDER SLAB
2	3" D.I. PIPE SPOOL (PEXFL, LENGTH AS REQ.) – THROUGH SLAB
3	3" D.I. FL. 90° BEND (W/ 3/4" TAP FOR COMB ARV & WATER SUPPLY)
4	3" MEGA-FLANGE ADAPTER
5	3" D.I. PIPE SPOOL (FLXPE, LENGTH AS REQ.)
6	3"x2" D.I. FL. CONC. REDUCER
7	2" D.I. PIPE SPOOL (FLXPE, LENGTH AS REQ.)
8	2" ZIP-FLANGE OR UNI-FLANGE ADAPTER
9	2" BADGER METER E-SERIES COMMERCIAL ULTRA-SONIC METER
10	2" D.I. PIPE SPOOL (FLXFL, 9-IN L.L.)
11	3"x2" D.I. FL. RED. 90° BEND (W/ 3/4" BOSSSED TAP FOR COMB ARV)
12	CLAY-GREENE DUPLEX BOOSTER PUMP SKID – W/ GOULDS 10eSV VIL PUMPS
13	AMTROL WX-202 BLADDER EXPANSION TANK – MOUNTED ON PUMP SKID



MECHANICAL SECTION A  
1" = 1'-0"

Arkansas One Call  
  
 Know what's below.  
 Call before you dig.

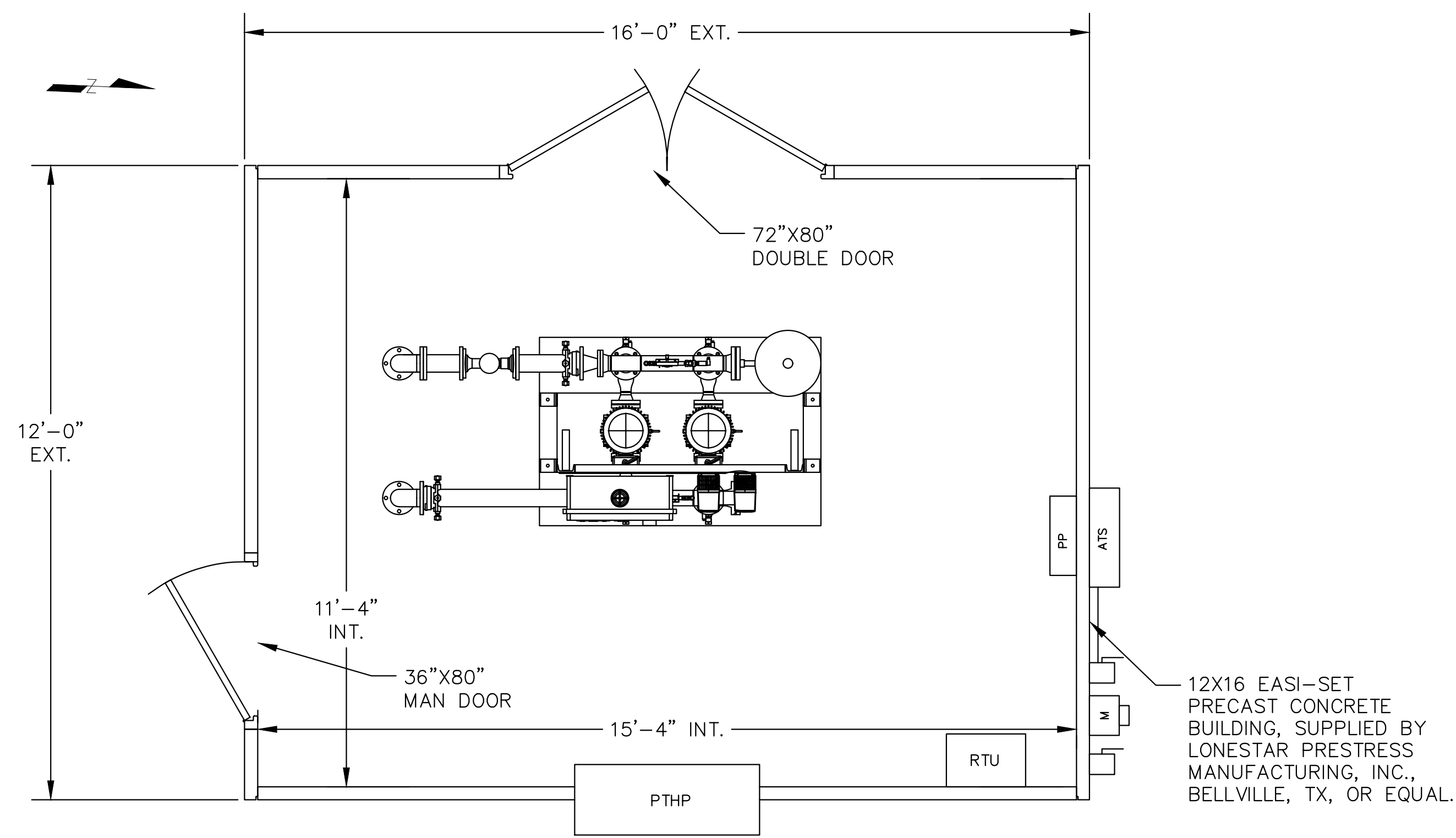
**SALT** Engineers & Planners  
 saltengineers.com | 501-766-9832  
 kbreckenridge@saltengineers.com

THIS LINE MEASURES 1" WHEN PLOTTED FULL-SIZE  
 DATE:

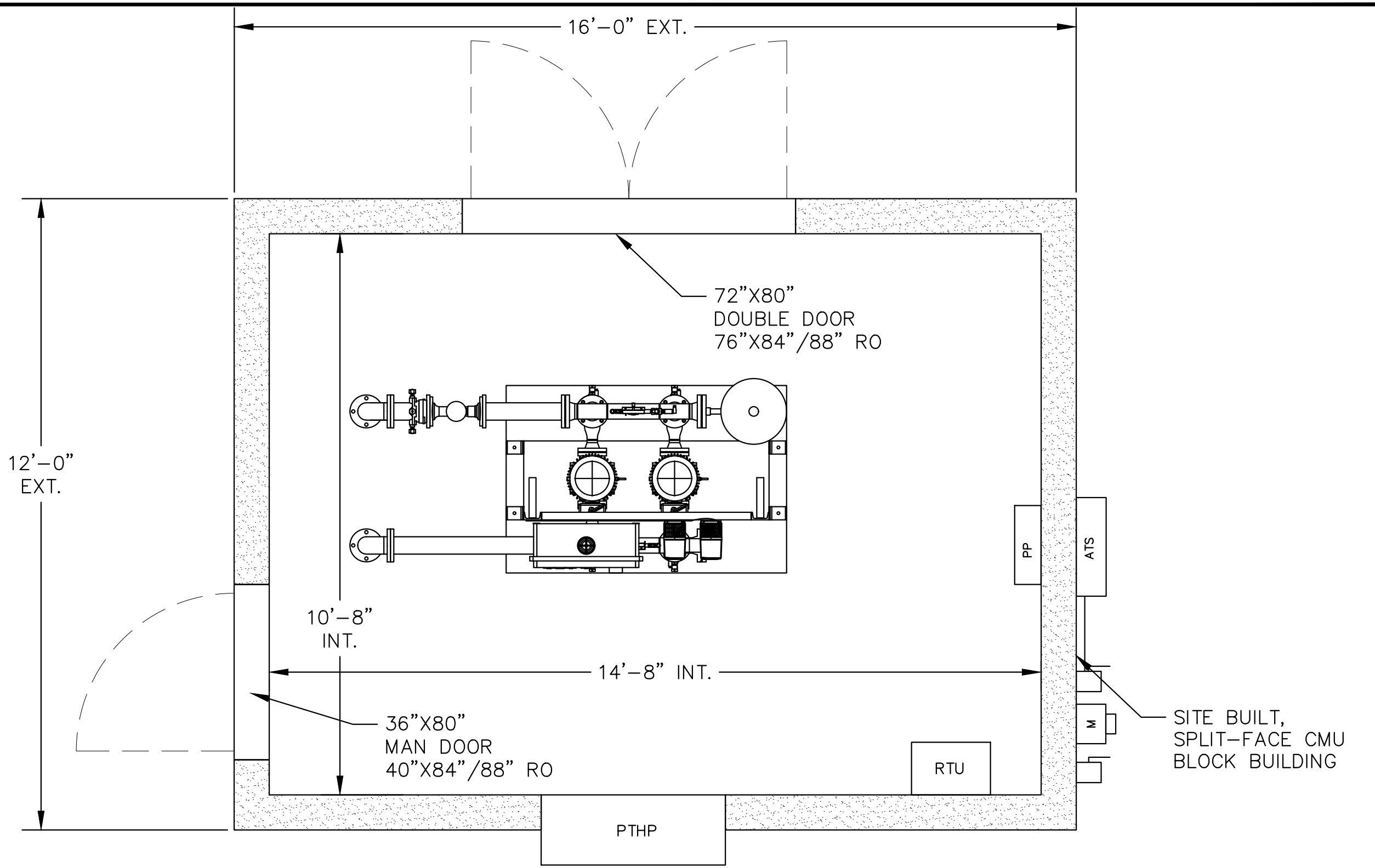
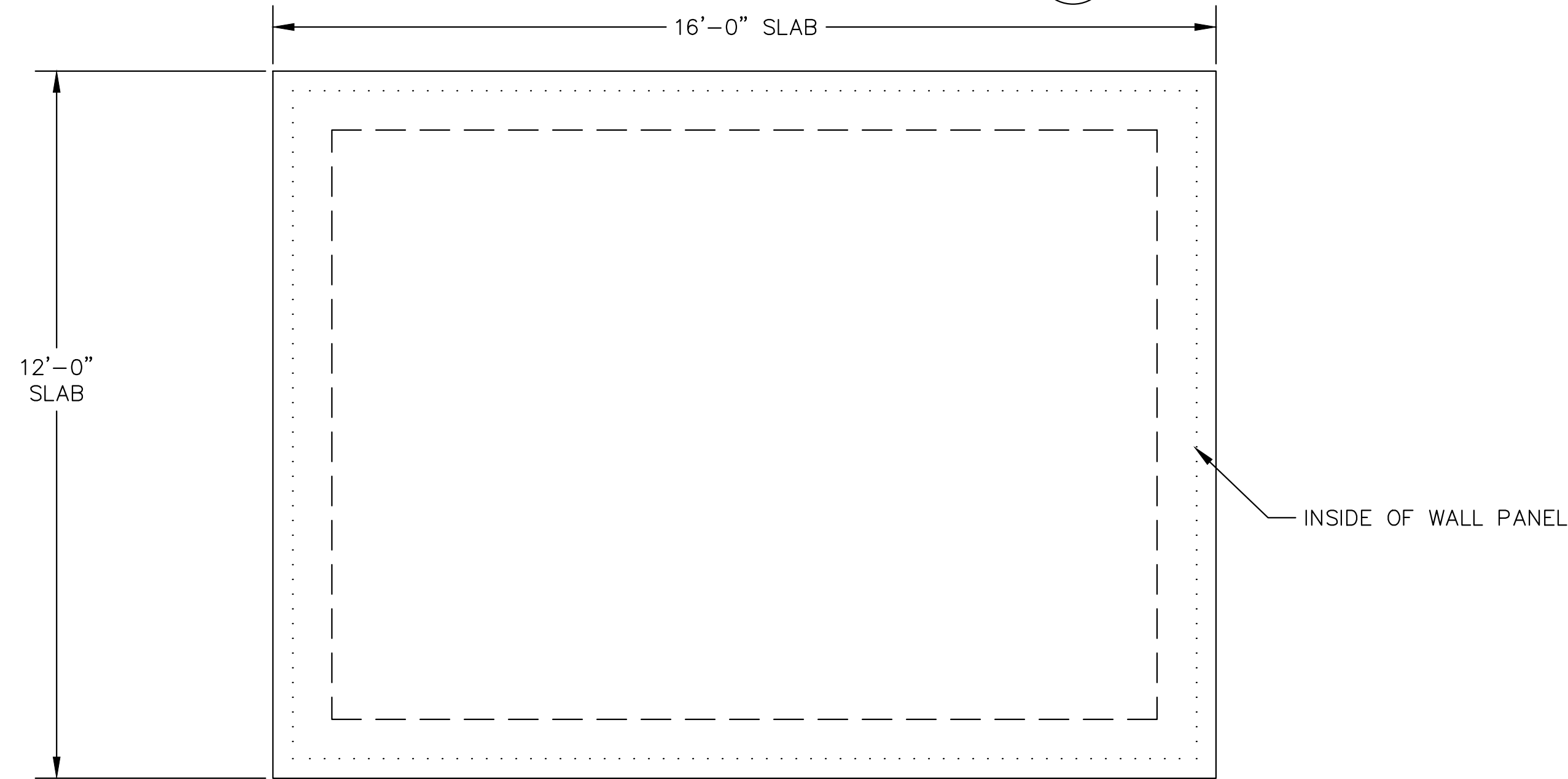
CERTIFICATE OF AUTHORITY  
 SALT ENGINEERS & PLANNERS, INC.  
 No. 4011  
 PROFESSIONAL ENGINEER  
 No. 13831  
 STATE OF ARKANSAS  
 4/6/24

CITY OF MELBOURNE  
**CHAPEL HILL WATER BOOSTER STATION**

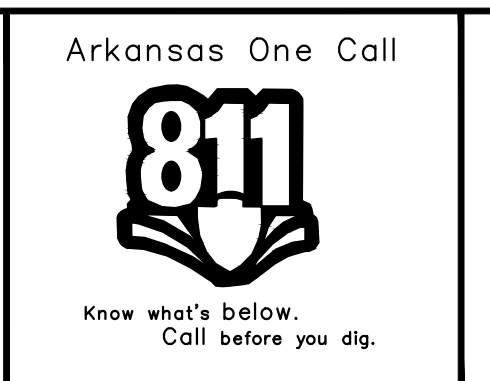
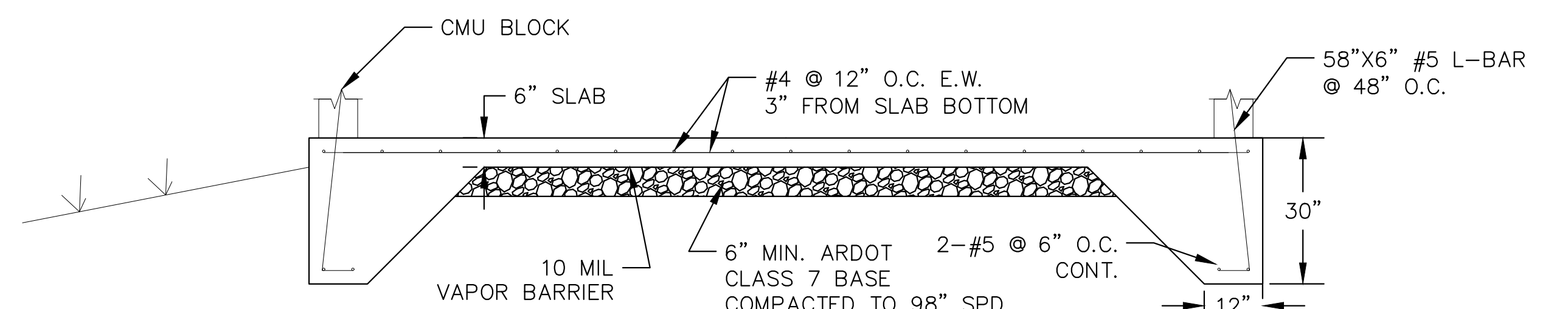
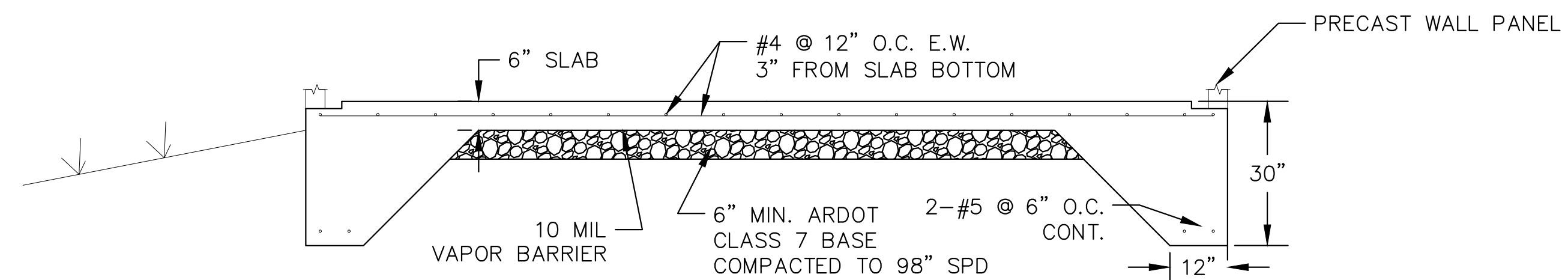
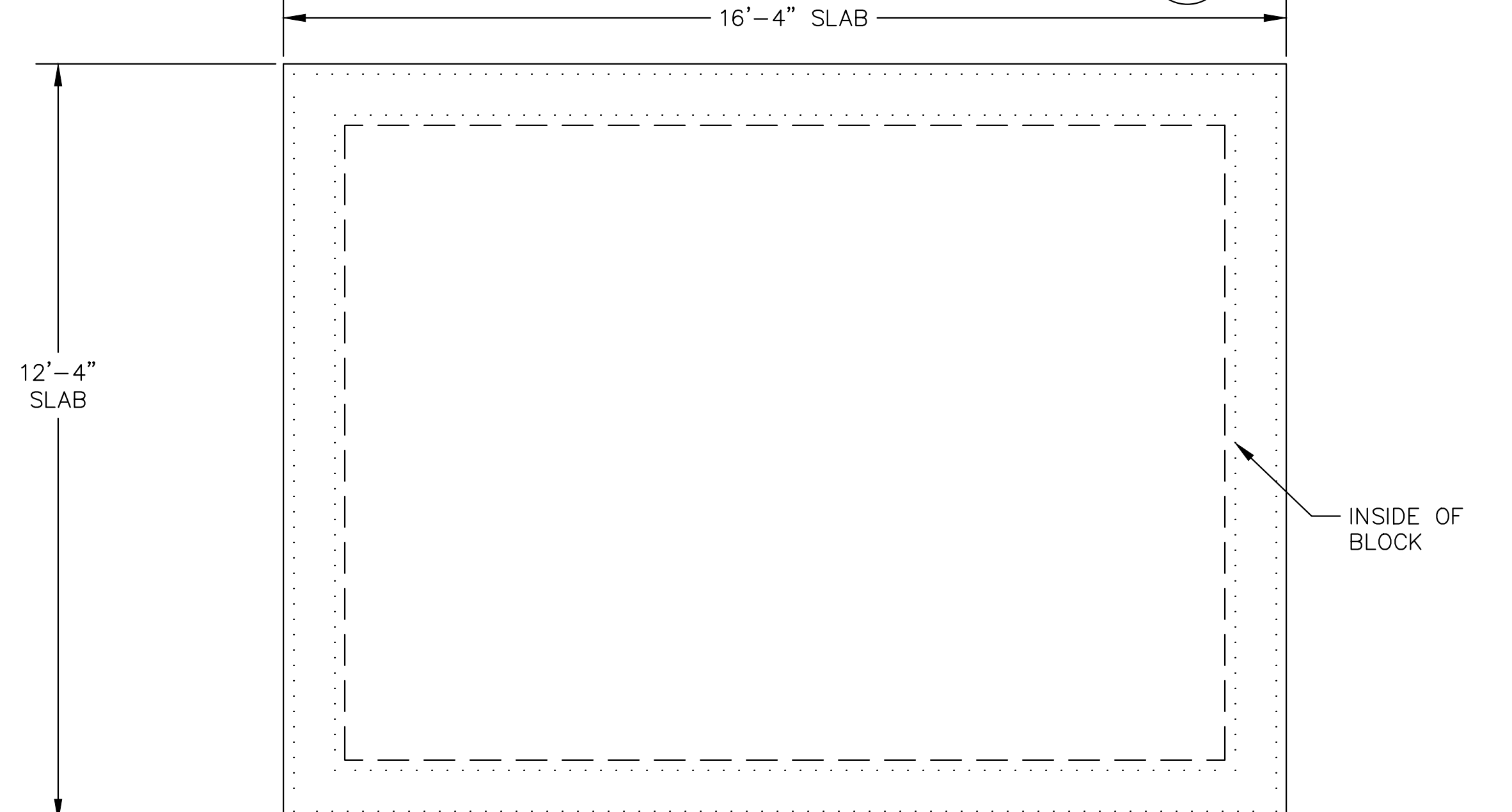
MECHANICAL SECTIONS	
PROJECT # 39-24-01	SHEET 5



**PRECAST CONCRETE BUILDING** (A)



**SPLIT-FACE CMU BLOCK BUILDING** (B)



**SALT** Engineers & Planners

saltengineers.com | 501-766-9832  
kbreckenridge@saltengineers.com

0 2'  
1/2" = 1'

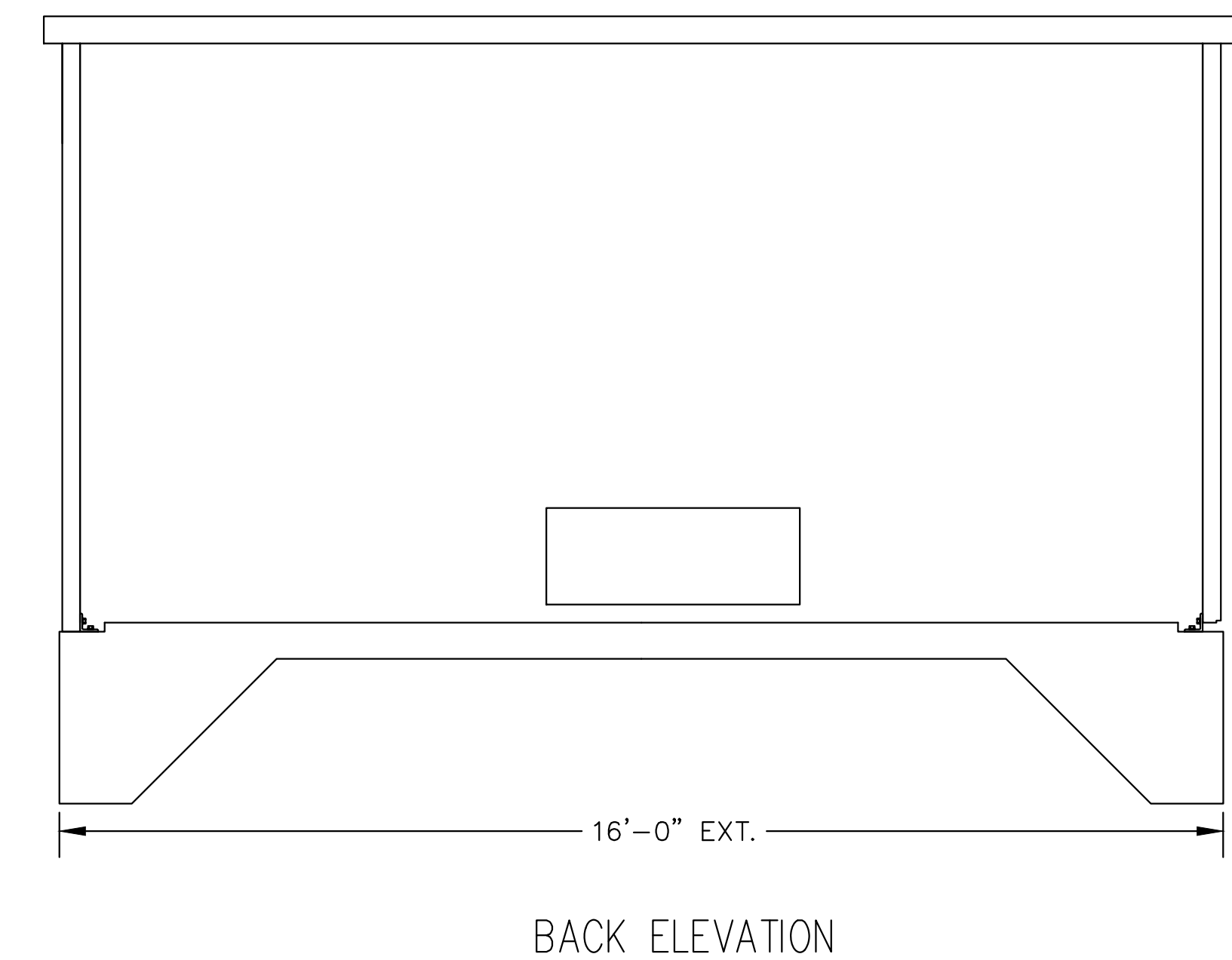
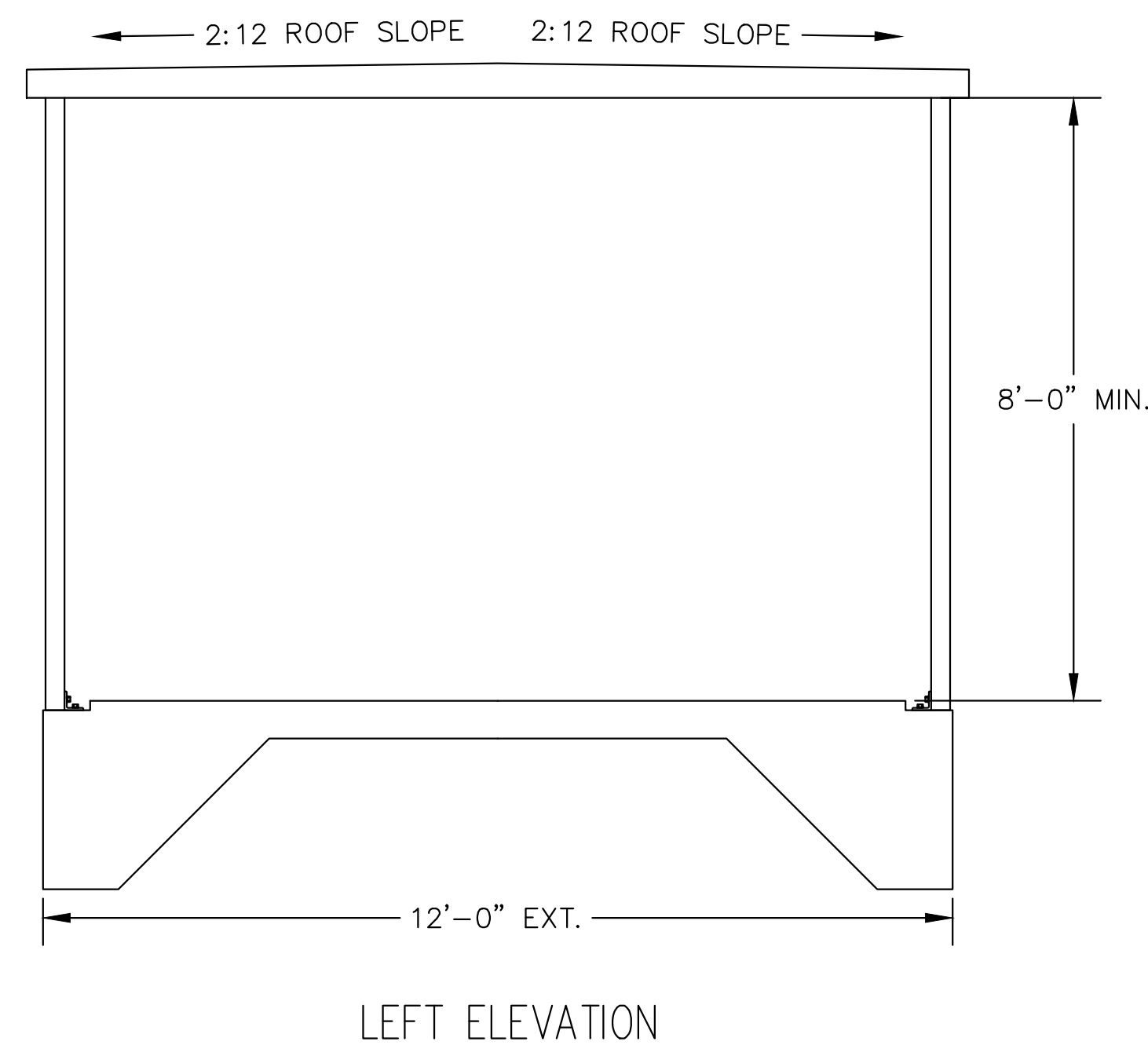
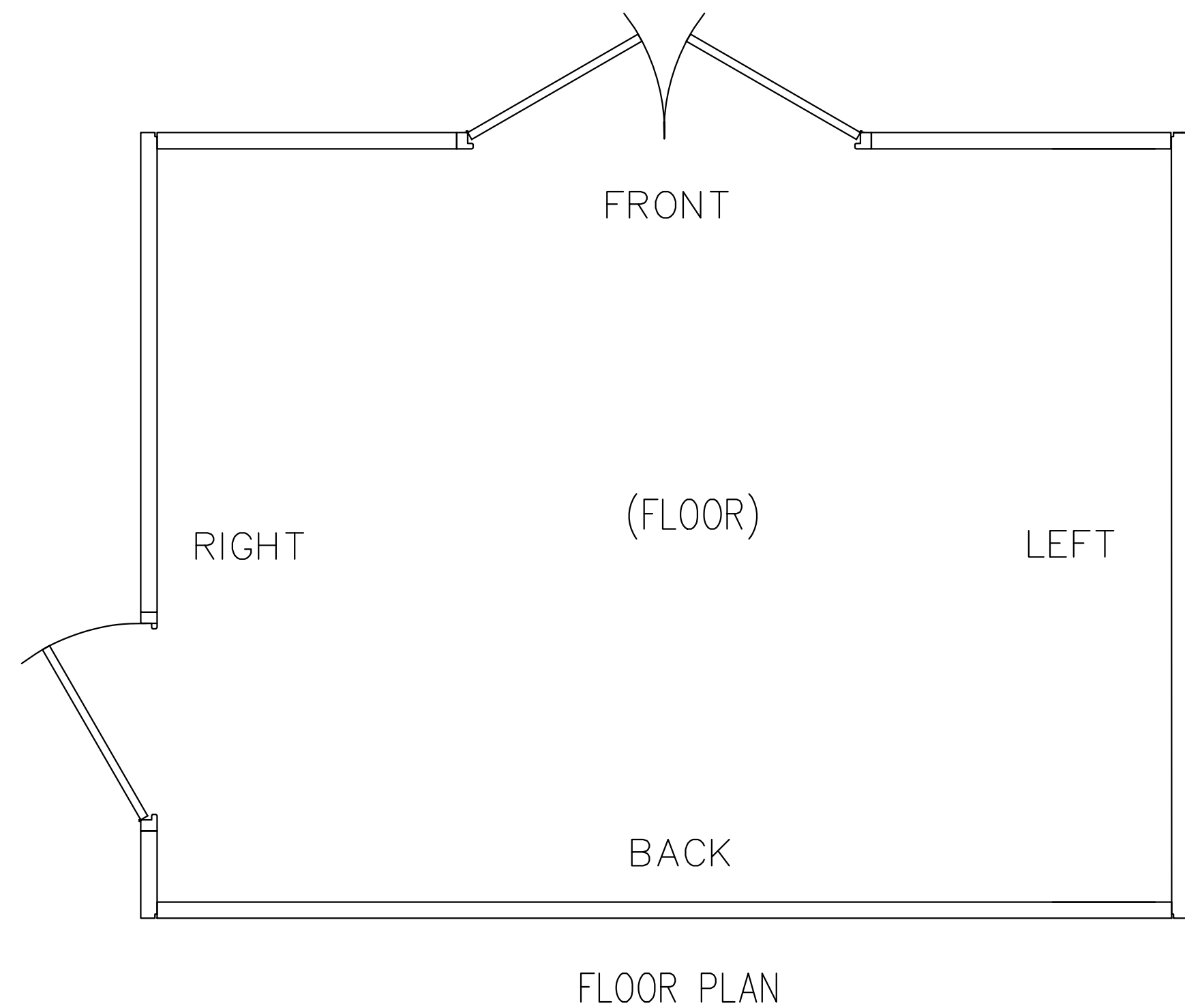
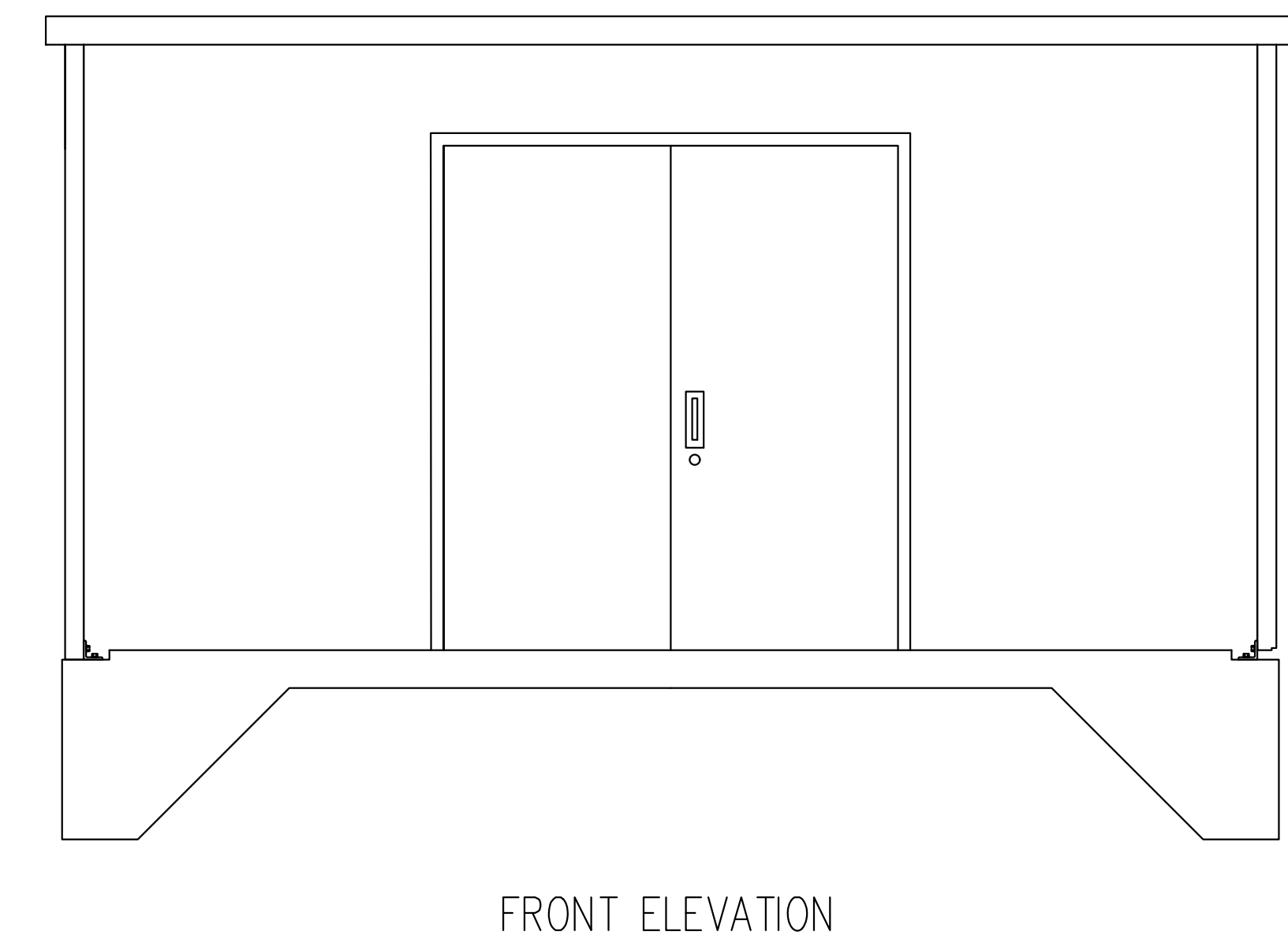
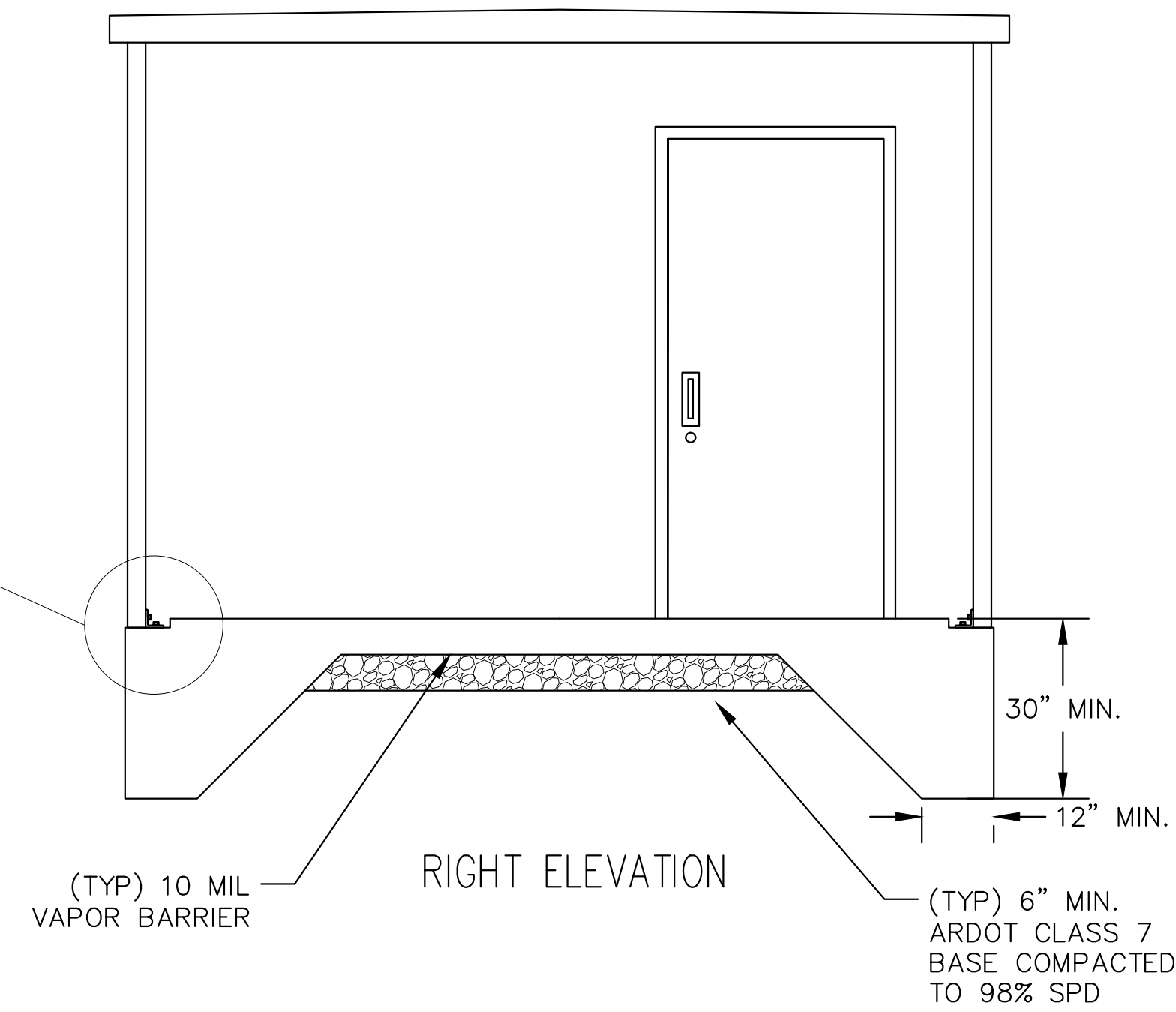
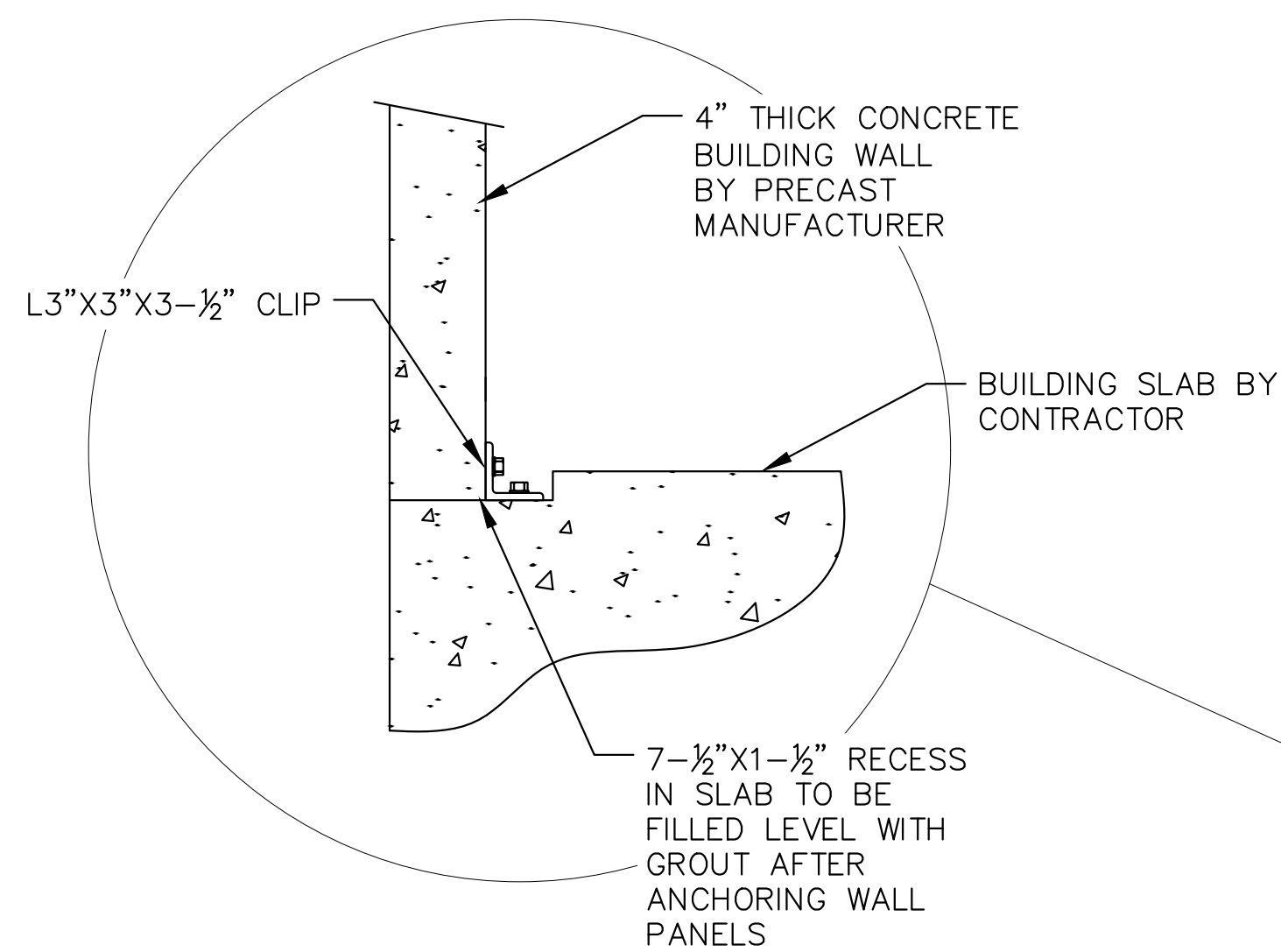
THIS LINE MEASURES 1" WHEN PLOTTED FULL-SIZE

DATE:

CERTIFICATE OF AUTHORITY  
SALT ENGINEERS & PLANNERS, INC.  
No. 4011  
PROFESSIONAL ENGINEER  
No. 13831  
3/12/24

CITY OF MELBOURNE  
**CHAPEL HILL WATER BOOSTER STATION**

PS BUILDING PLAN	
PROJECT # 39-24-01	SHEET 6



Arkansas One Call



Know what's below.  
Call before you dig.

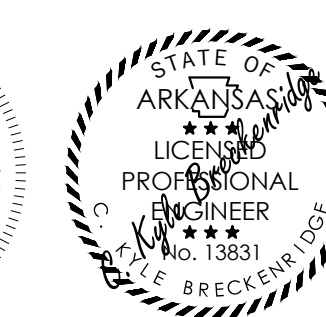


Engineers & Planners

saltengineers.com | 501-766-9832  
kbreckenridge@saltengineers.com

THIS LINE MEASURES 1" WHEN PLOTTED FULL-SIZE

DATE:



3/12/24

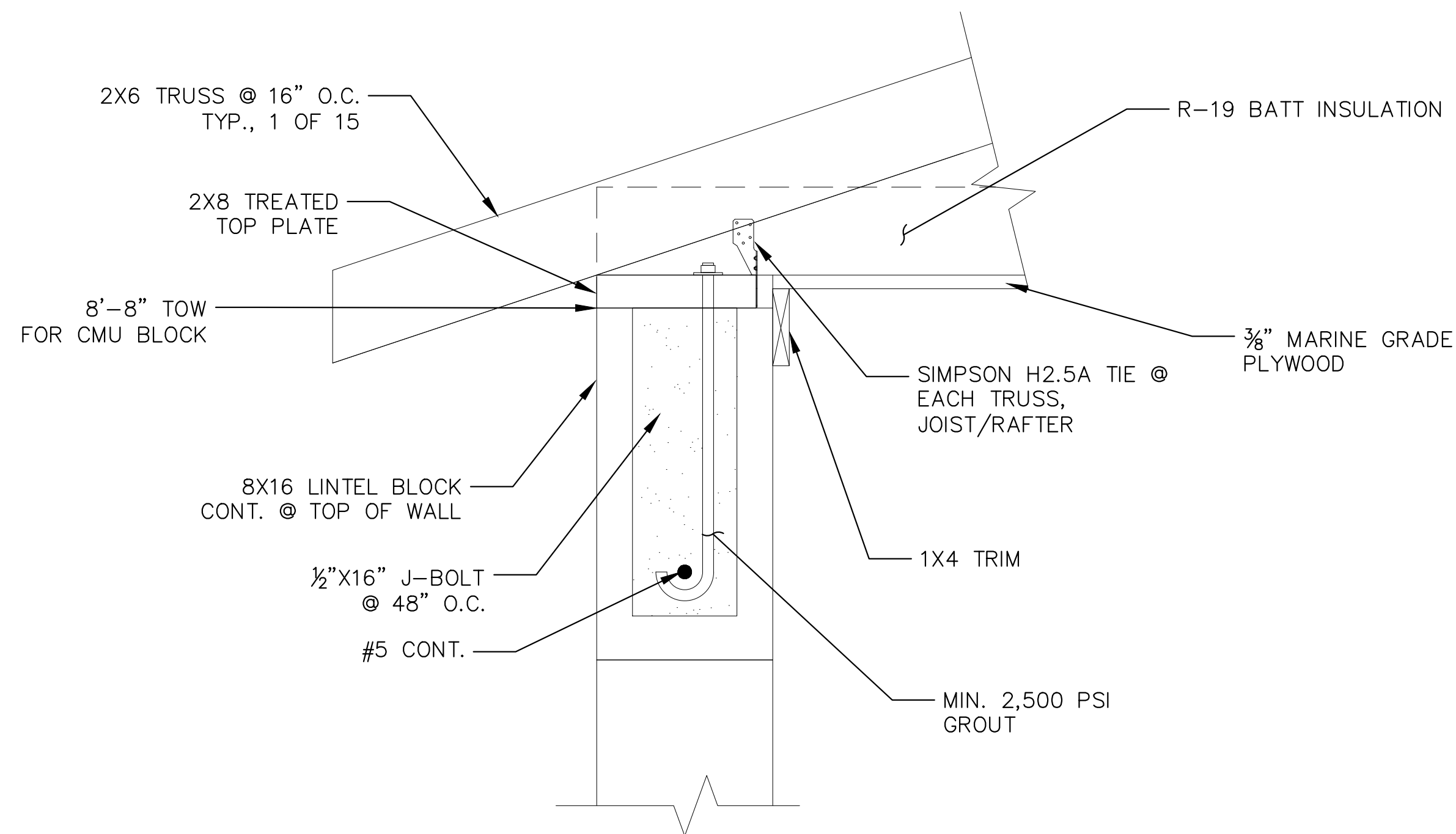
CITY OF MELBOURNE  
**CHAPEL HILL WATER BOOSTER STATION**

BUILDING ELEVATIONS

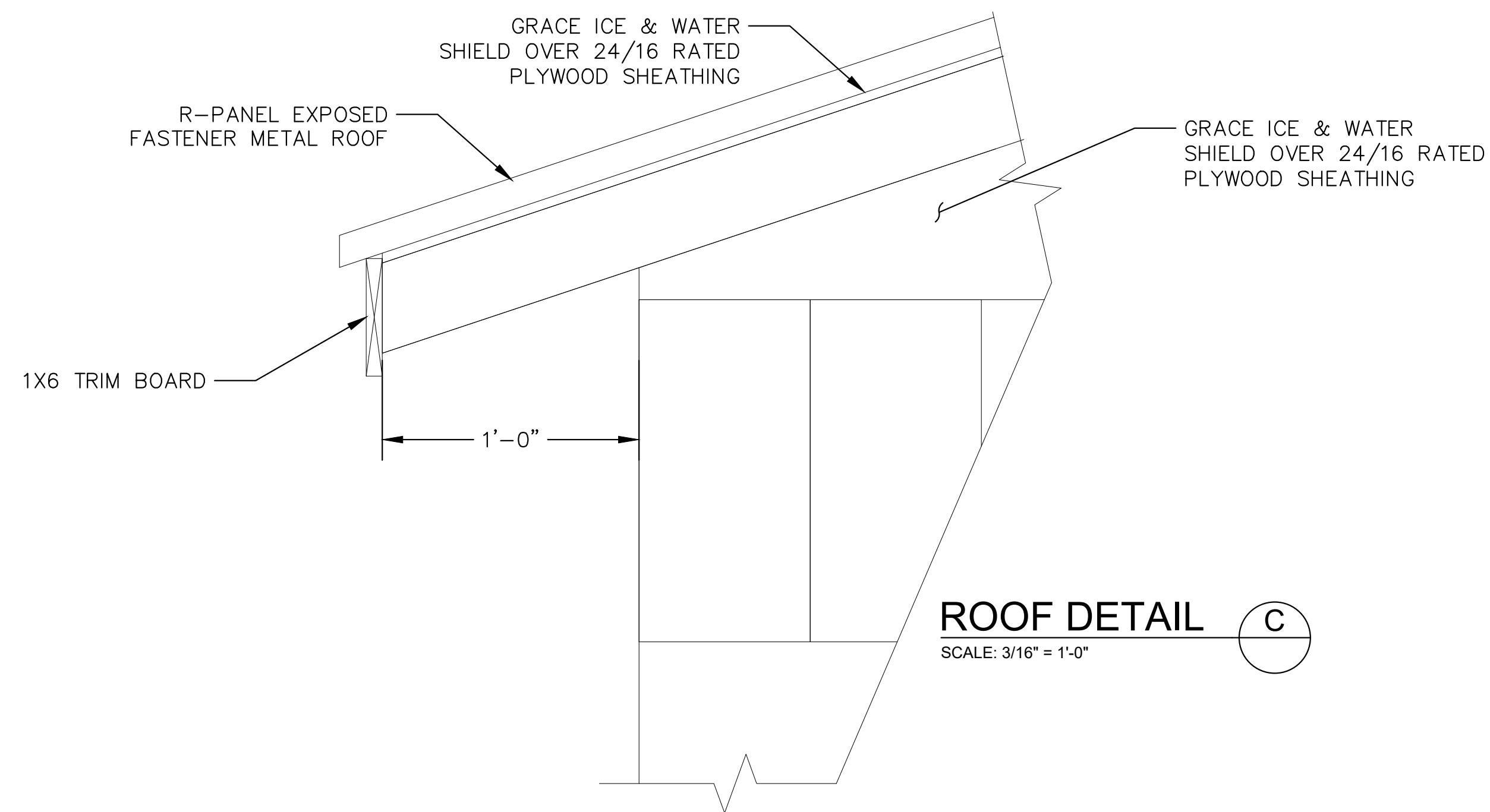
PROJECT #  
39-24-01

SHEET  
7

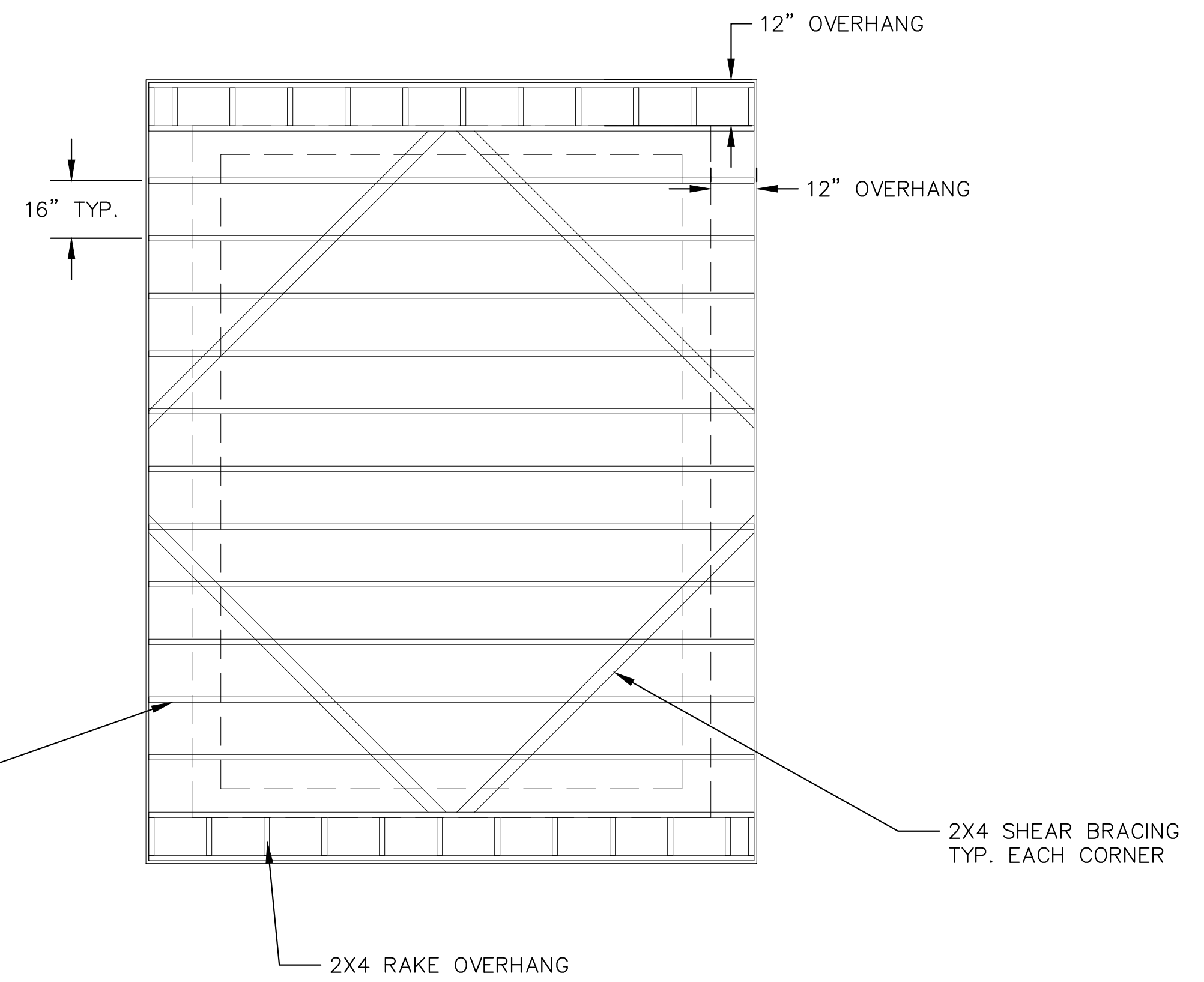




**BONDBEAM/LINTEL (ALL LOCATIONS)** (C)  
SCALE: 3/16" = 1'-0"



**ROOF DETAIL** (C)  
SCALE: 3/16" = 1'-0"



2X4 TRUSS @ 16" O.C.  
TYP., 1 OF 13

2X4 SHEAR BRACING  
TYP. EACH CORNER

Arkansas One Call  
**811**  
Know what's below.  
Call before you dig.

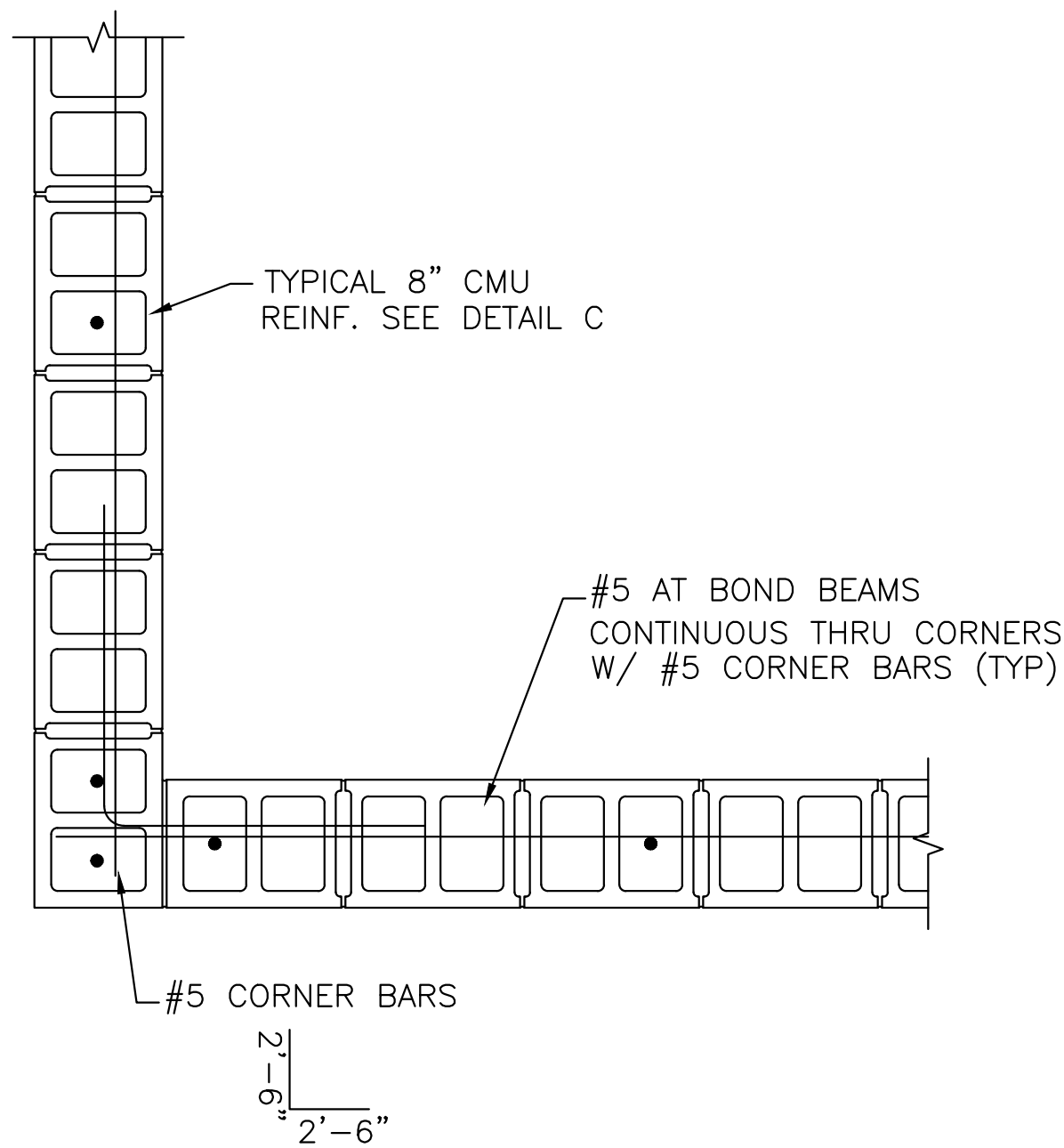
**SALT** Engineers & Planners  
saltengineers.com | 501-766-9832  
kbreckenridge@saltengineers.com

0 2'-8"  
3/16" = 1"  
THIS LINE MEASURES 1" WHEN PLOTTED FULL-SIZE  
DATE:

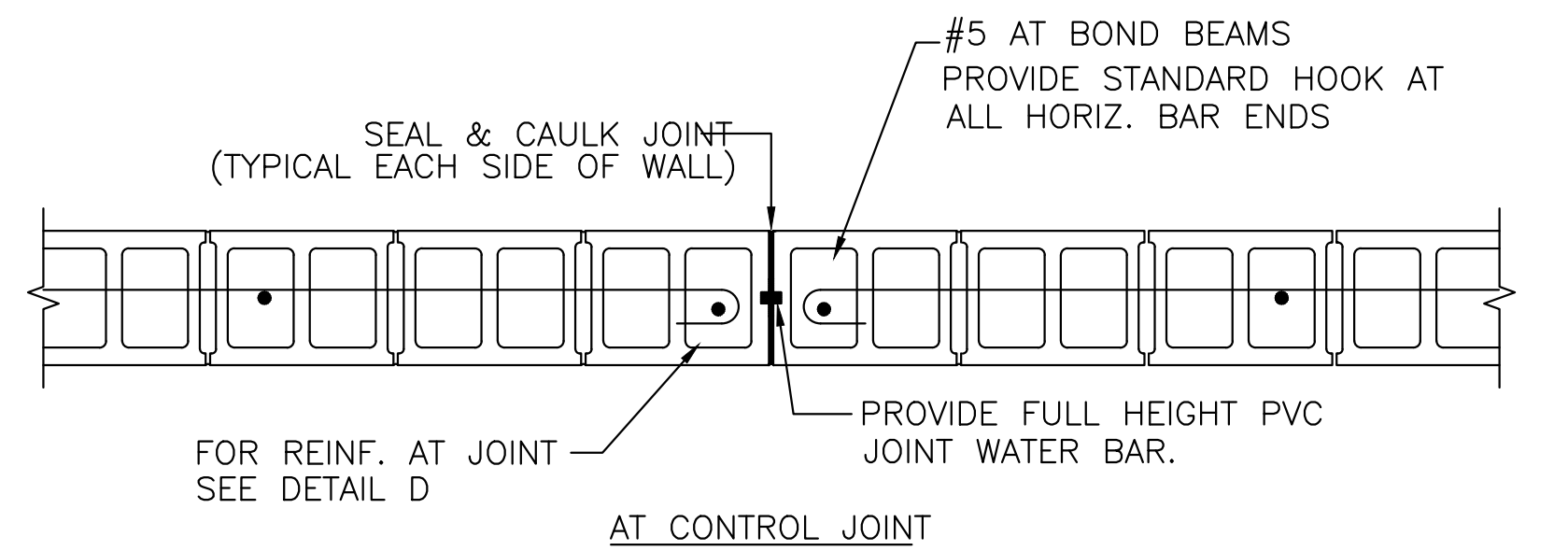
CERTIFICATE OF AUTHORITY  
SALT ENGINEERS & PLANNERS, INC.  
No. 4011  
STATE OF ARKANSAS  
PROFESSIONAL ENGINEER  
No. 13831  
3/12/24

CITY OF MELBOURNE  
**CHAPEL HILL WATER BOOSTER STATION**

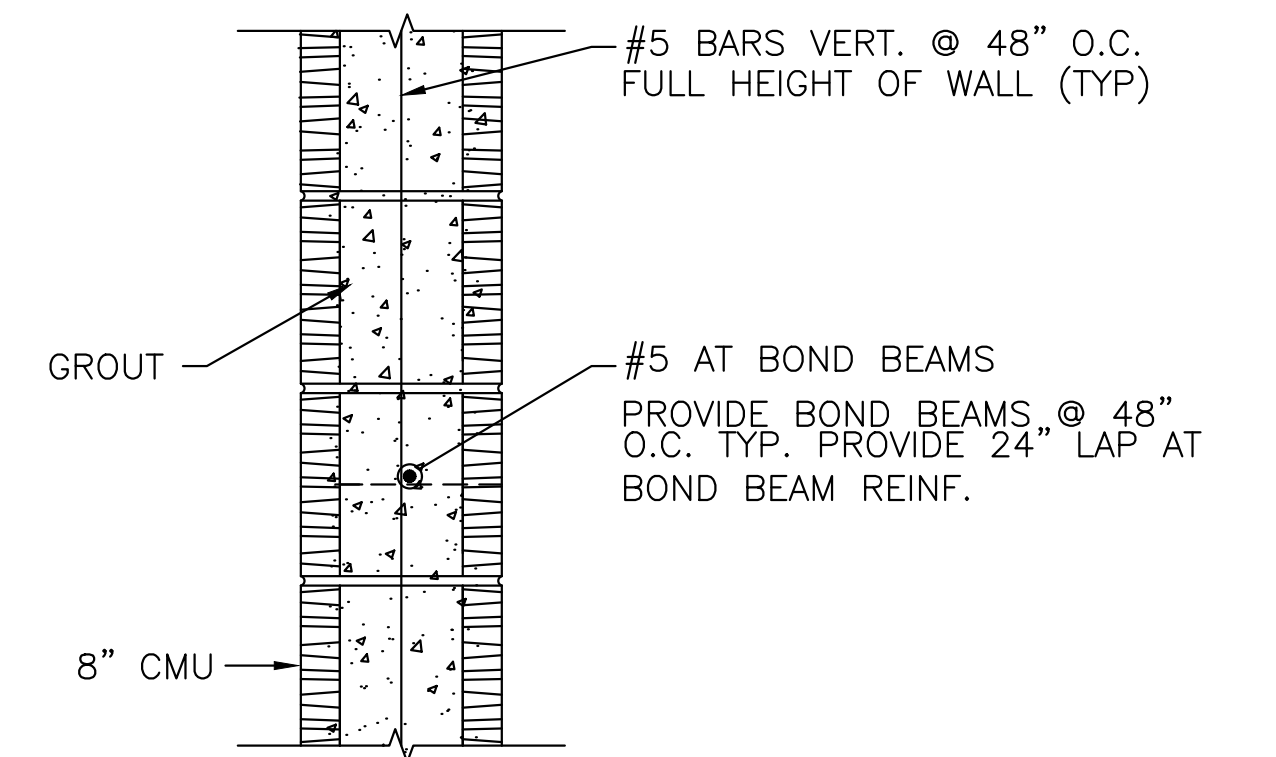
PS ROOF PLAN CMU BLOCK BLDG ONLY	
PROJECT # 39-24-01	SHEET 8



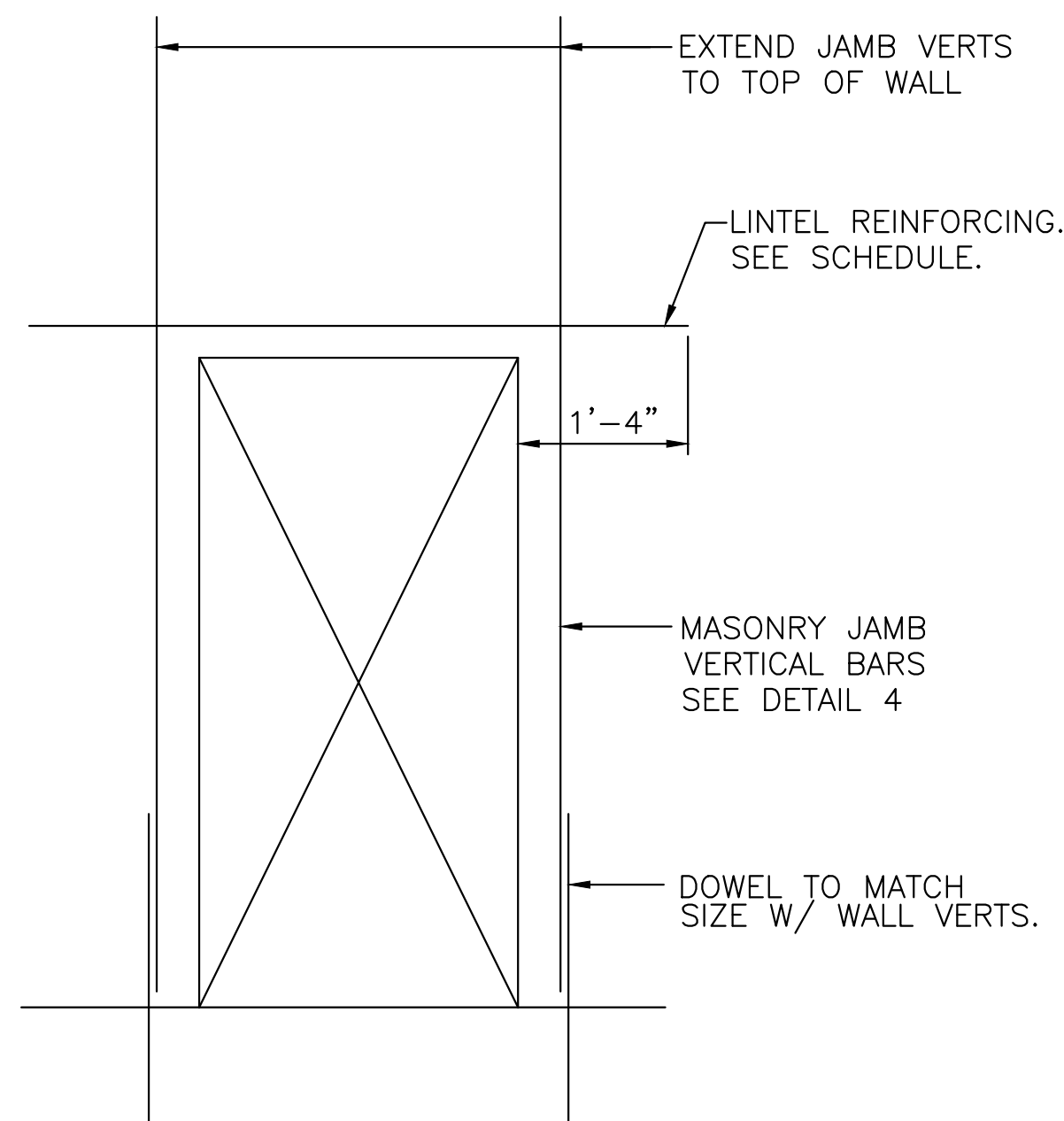
**CMU WALL CORNER REINFORCEMENT** (A)  
N.T.S



**TYP. REINFORCEMENT @ CONTROL JOINT** (B)  
N.T.S



**TYP. CMU WALL REINFORCEMENT** (C)  
N.T.S



NOTE:

IF OPENING DOES NOT GO TO THE FLOOR, PROVIDE HORIZ. BAR BELOW OPENING SAME SIZE AS LINTEL. EXTEND JAMB BARS MIN. 4'-0" BELOW OPENING OR TO FLOOR.

**TYP. REINFORCEMENT @ OPENING** (F)  
N.T.S

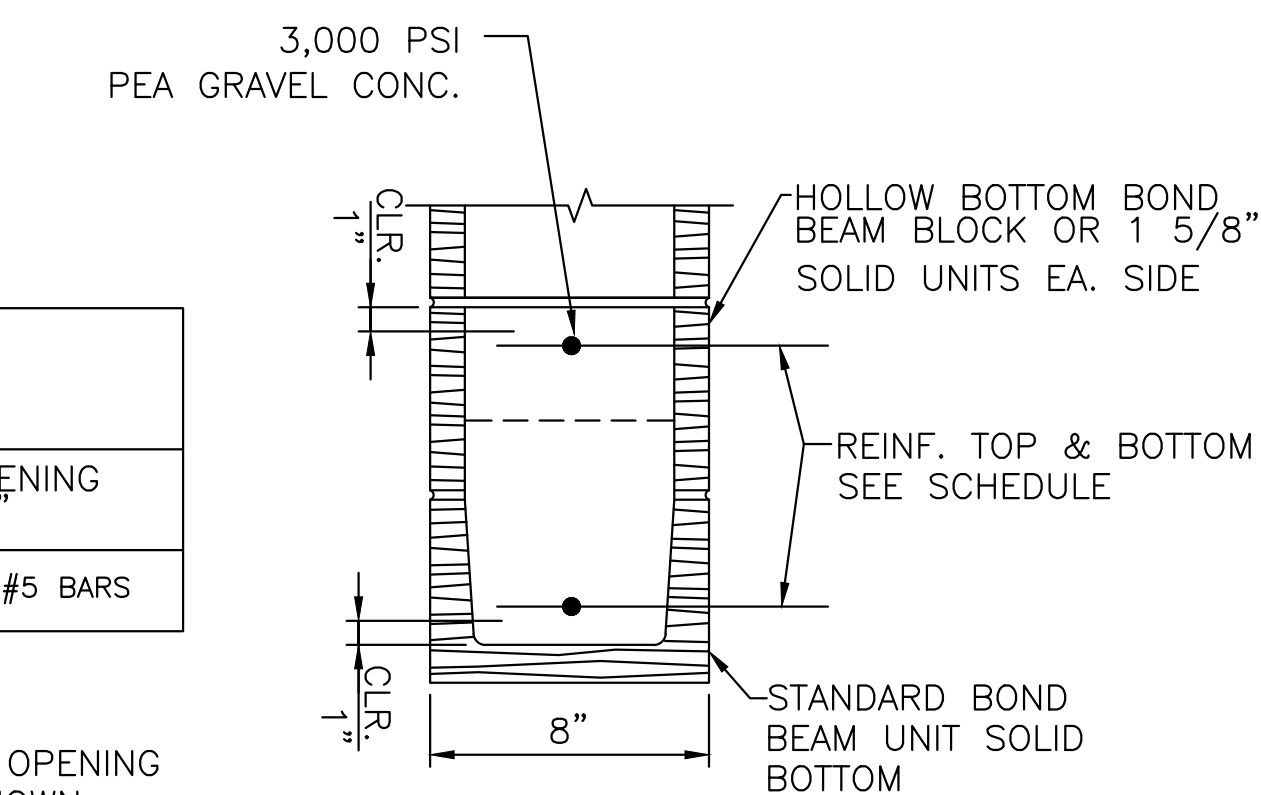
DOOR SCHEDULE			
TYPE	QTY	SIZE (WXH)	RO (WXH)
SINGLE MAN DOOR	1	36"X80"	40"X88"
DOUBLE DOOR	1	72"X80" (2)	76"X88"

ALL DOORS SHALL BE HOLLOW METAL. METER ROOM DOORS SHALL HAVE BEST ACCESS SYSTEMS LOCKSETS. KEY CYLINDERS SHALL BE 7-PIN, INTERCHANGEABLE CORE, AND KEYED INTO AN EXISTING FACTORY REGISTERED GRAND MASTERKEY SYSTEM W/ PREMIUM W SERIES KEYWAY. METER ROOM AND PUMP ROOM HAVE DIFFERENT MASTERKEY SYSTEMS. PUMP ROOM DOORS SHALL HAVE LOCKSETS PROVIDED BY CENTRAL ARKANSAS LOCK & SAFE. HARDWARE FINISH SHALL BE SATIN CHROME.

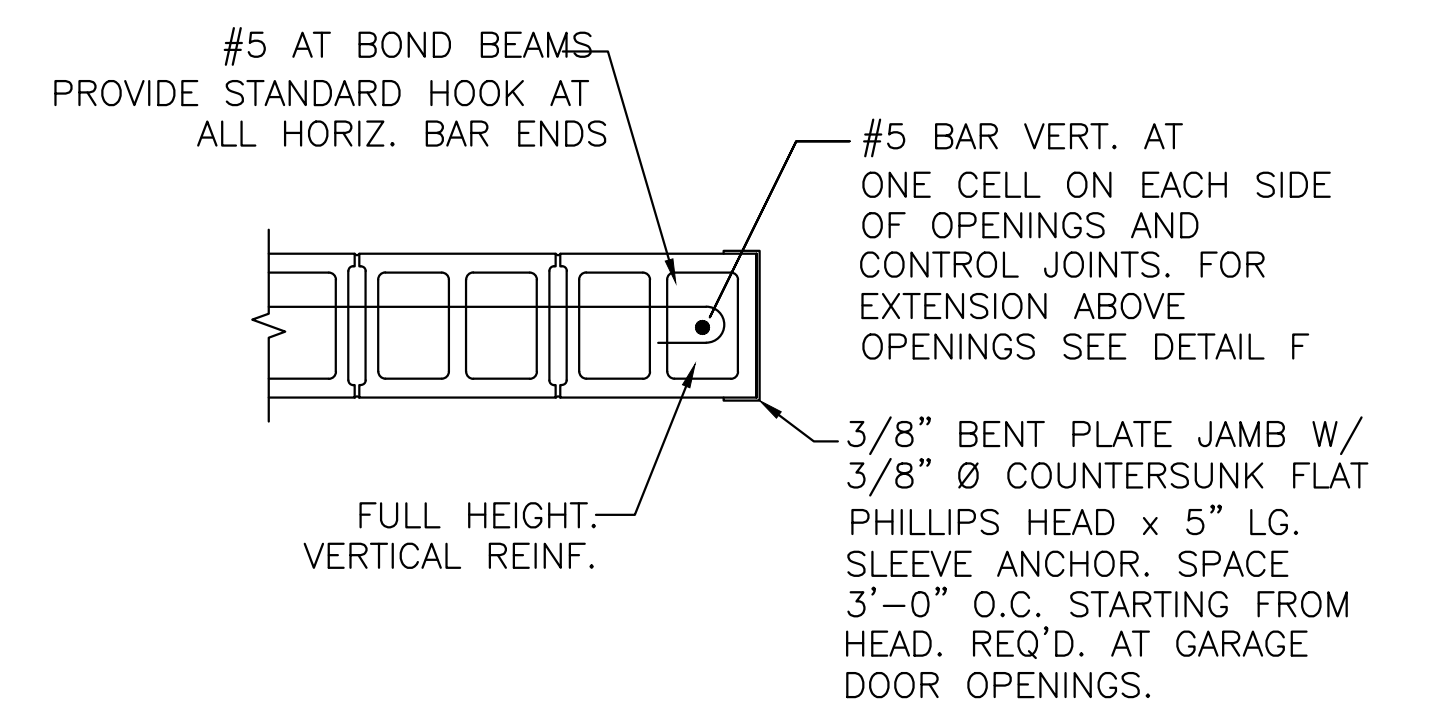
CMU LINTEL BEAM SCHEDULE TYPES & REINFORCING		
WALL THICKNESS	CLEAR OPENING TO 3'-4"	CLEAR OPENING 6'-0"
8"	8" DEEP W/ #5 BARS	16" DEEP W/ #5 BARS

NOTE:

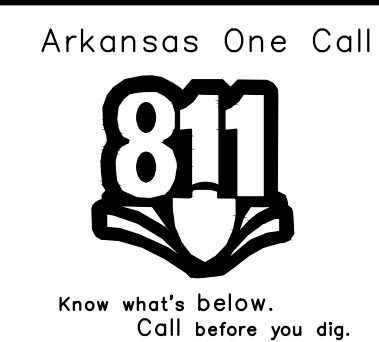
EXTEND LINTEL BEAM MIN. OF 8" BEYOND OPENING EACH END. SCHEDULE APPLIES UNLESS SHOWN OTHERWISE ON DRAWINGS



**TYP. CMU LINTEL BEAM** (E)  
N.T.S



**TYP. JAMB REINFORCEMENT** (D)  
N.T.S



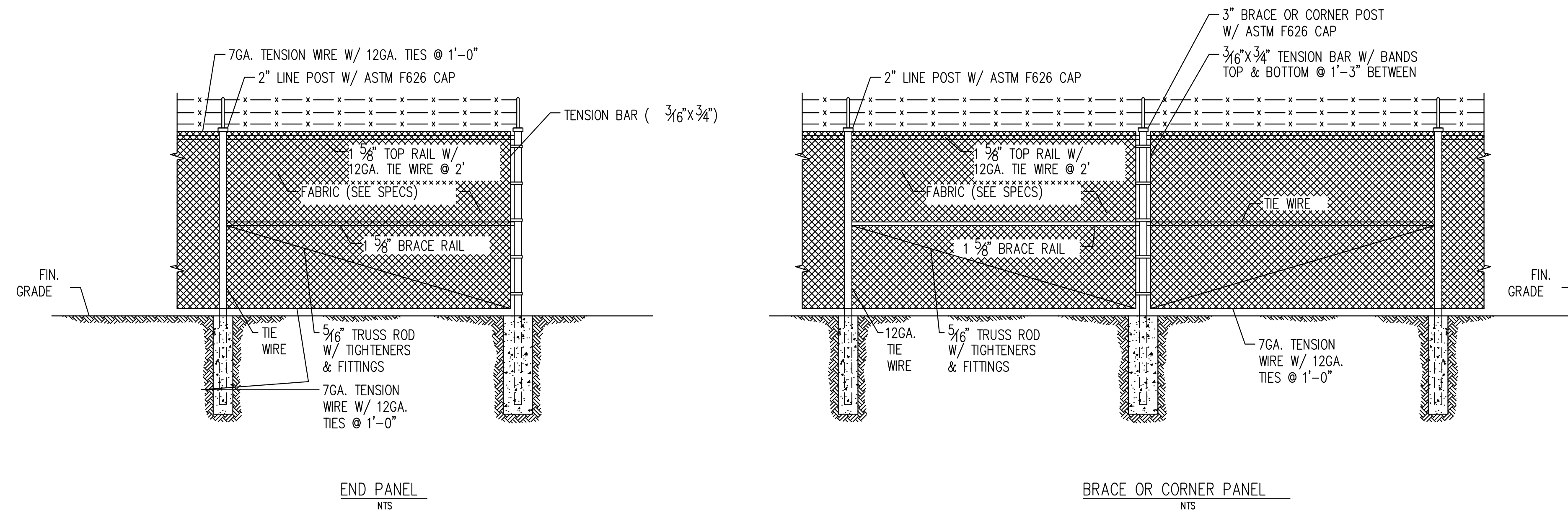
THIS LINE MEASURES 1" WHEN PLOTTED FULL-SIZE

DATE:



CITY OF MELBOURNE  
**CHAPEL HILL WATER BOOSTER STATION**

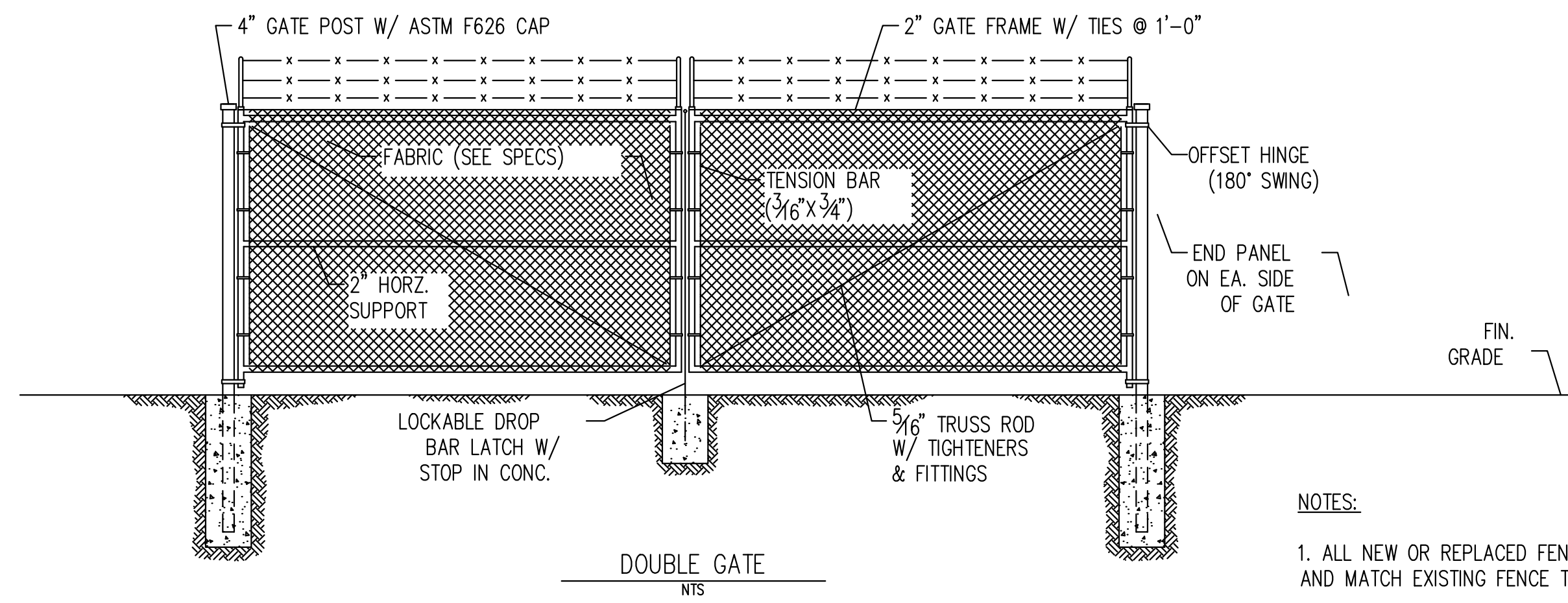
CMU BLOCK STRUCTURAL DETAILS	
PROJECT #	SHEET
39-24-01	9



END PANEL  
N.T.S.

BRACE OR CORNER PANEL  
N.T.S.

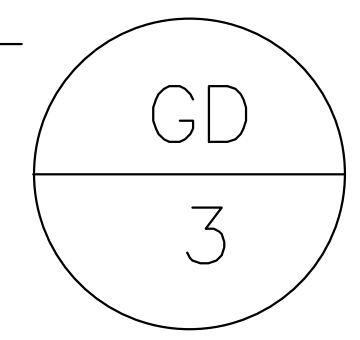
FENCE & GATE DETAILS



DOUBLE GATE  
N.T.S.

- NOTES:
1. ALL NEW OR REPLACED FENCING SHALL TIE-INTO AND MATCH EXISTING FENCE TO REMAIN.

CHAIN-LINK FENCE & GATE DETAILS  
N.T.S.



Arkansas One Call  
**811**  
Know what's below.  
Call before you dig.

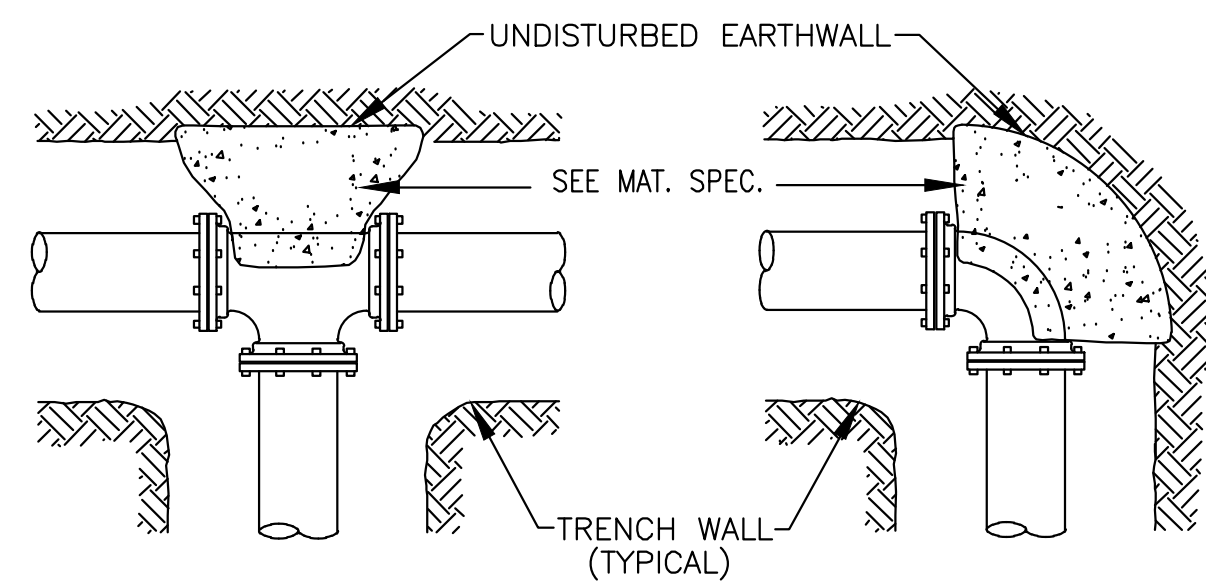
**SALT** Engineers & Planners  
saltengineers.com | 501-766-9832  
kbreckenridge@saltengineers.com

SCALE: N.T.S.  
THIS LINE MEASURES 1" WHEN PLOTTED FULL-SIZE  
DATE:

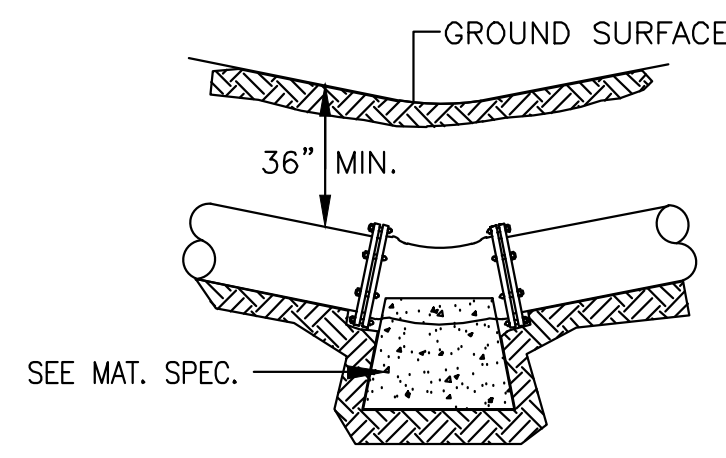
CERTIFICATE OF AUTHORITY  
SALT ENGINEERS & PLANNERS, INC.  
No. 4011  
PROFESSIONAL ENGINEER  
No. 13831  
STATE OF ARKANSAS  
3/12/24

CITY OF MELBOURNE  
**CHAPEL HILL WATER BOOSTER STATION**

GENERAL STANDARD DETAILS  
PROJECT # 39-24-01  
SHEET 10

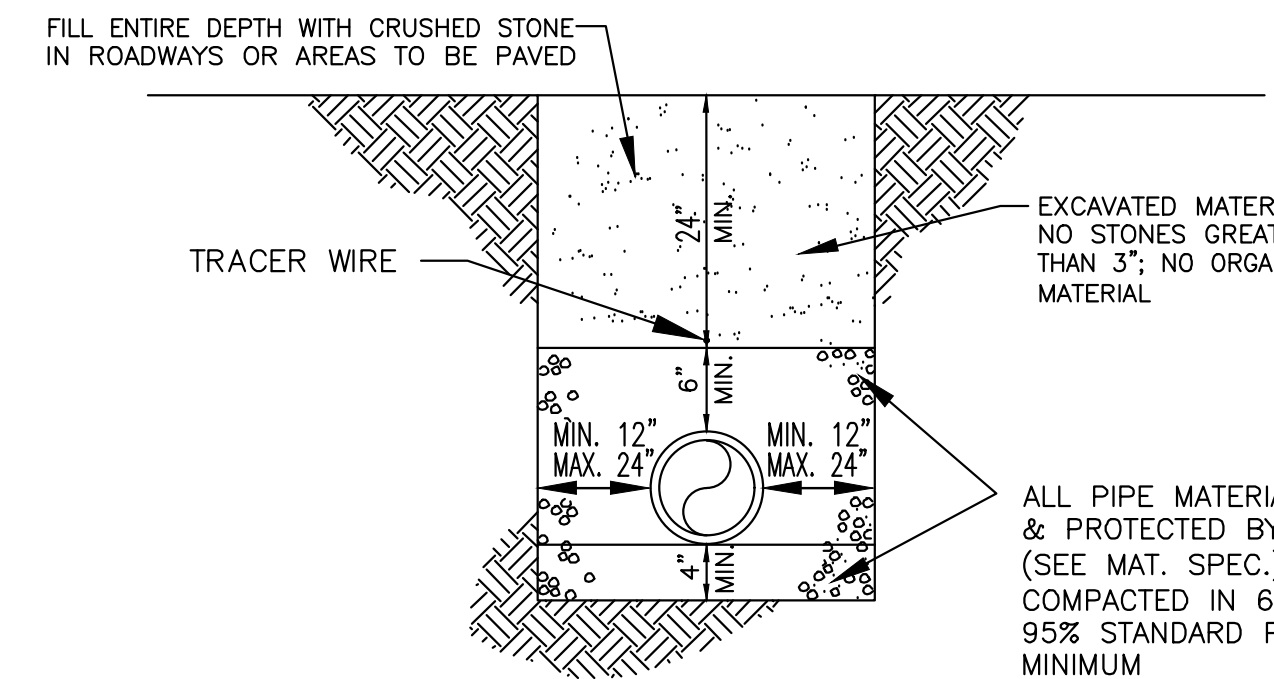


TEE  
 90° BEND  
 45° BEND (SIMILAR)  
 22 1/2° BEND (SIMILAR)  
 11 1/4° BEND (SIMILAR)



VERTICAL (CRADLE)

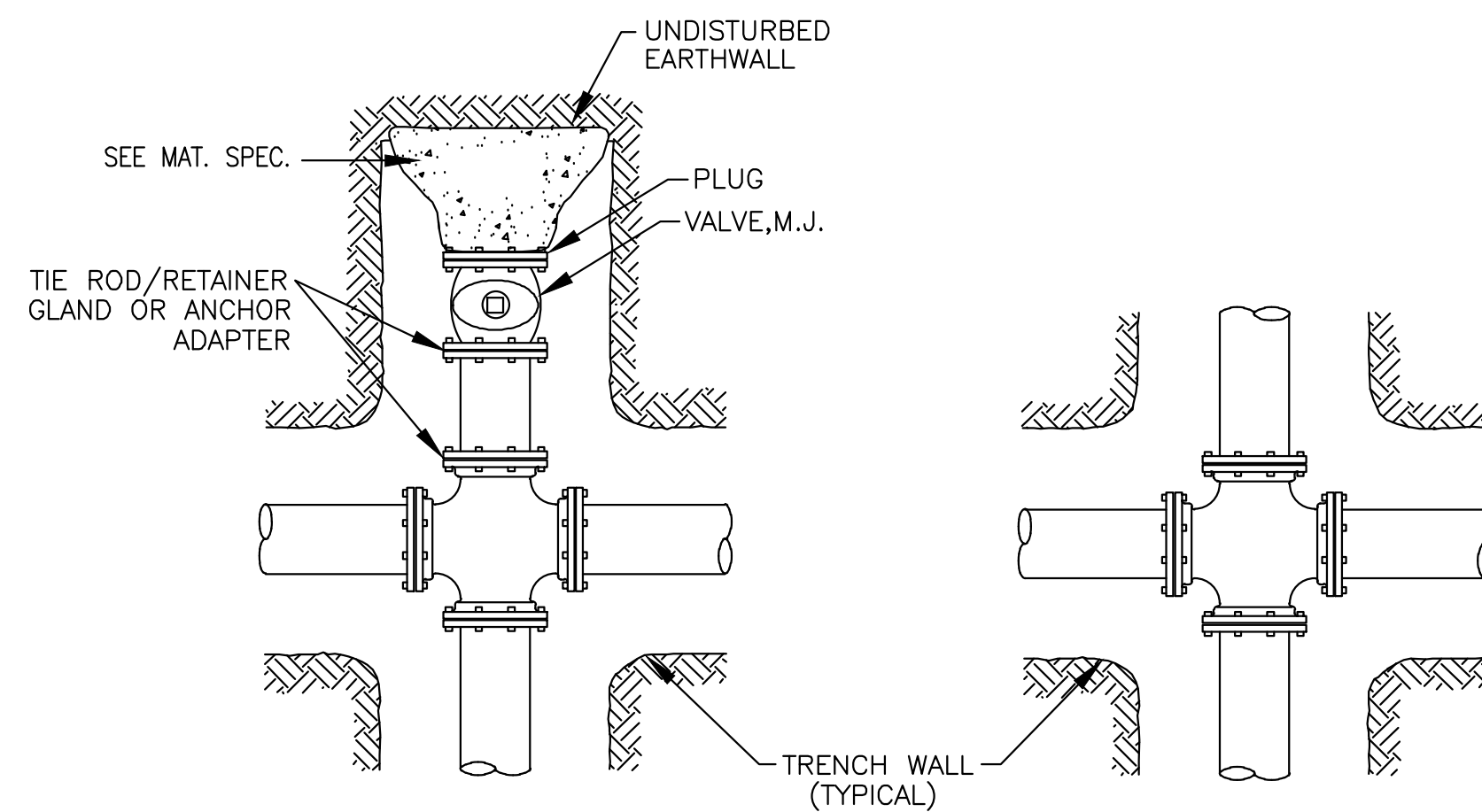
45° BEND  
 22 1/2° BEND (SIMILAR)  
 11 1/4° BEND (SIMILAR)



TRENCH/PIPE BEDDING DETAIL  
 FOR WATER MAINS

N.T.S.

WD  
 13



CROSS WITH PLUG/CAP  
 TEE WITH PLUG (SIMILAR)

CROSS

NOTES:

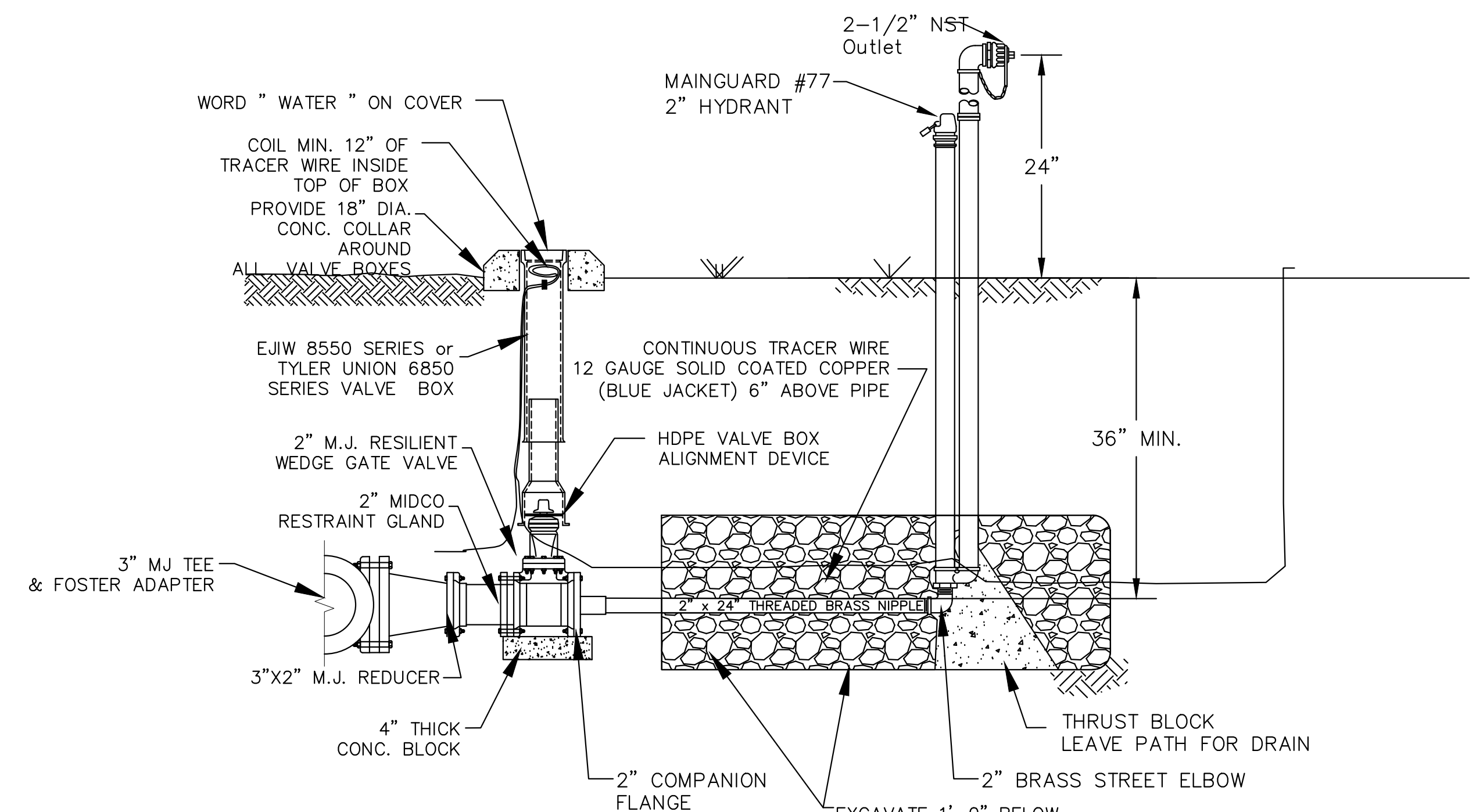
1. ALL FITTINGS SHALL BE M.J. WITH RETAINER GLANDS
2. DO NOT COVER BELL OR FLANGES WITH CONCRETE
3. WRAP ALL FITTINGS WITH POLY WRAP
4. BACK ALL TEES ACCORDING TO BRANCH SIZE
5. BACKING OF FUTURE LINE EXTENSIONS SHALL BE SUCH THAT LATER REMOVAL IS POSSIBLE
6. REACTION BACKING TABLE IS BASED ON 150 PSI WATER PRESSURE AND SOIL BEARING PRESSURE OF 2,500 LB/SF. ADDITIONAL BACKING MAY BE REQUIRED IN SOME AREAS AS DIRECTED BY ENGINEER

REACTION BACKING TABLE					
REQUIRED SQ. FT. OF UNDISTURBED EARTH WALL FOR REACTION BACKING					
SIZE	TYPE OF FITTINGS				
	TEE OR PLUG/CAP	90°	45°	22 1/2°	11 1/4°
4"	2	2	1	1	1
6"	3	3	2	1	1
8"	4	4	3	2	2
12"	10	10	5	3	2
18"	26	26	14	7	4
24"	38	38	20	10	7
30"	59	59	32	16	10

THRUST BLOCKING DETAIL

N.T.S.

WD  
 20

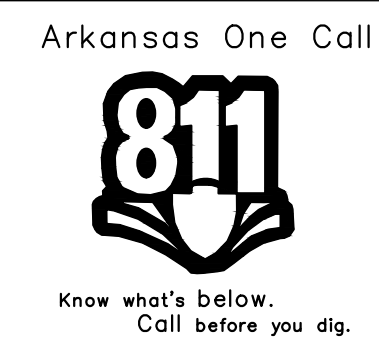


NOTES:

1. THRUST BLOCKING SHALL BE ACCORDING TO THRUST BLOCKING DETAILS.
2. DO NOT COVER UP WEEP HOLE WITH CONCRETE.

YARD HYDRANT ASSEMBLY

WD  
 25



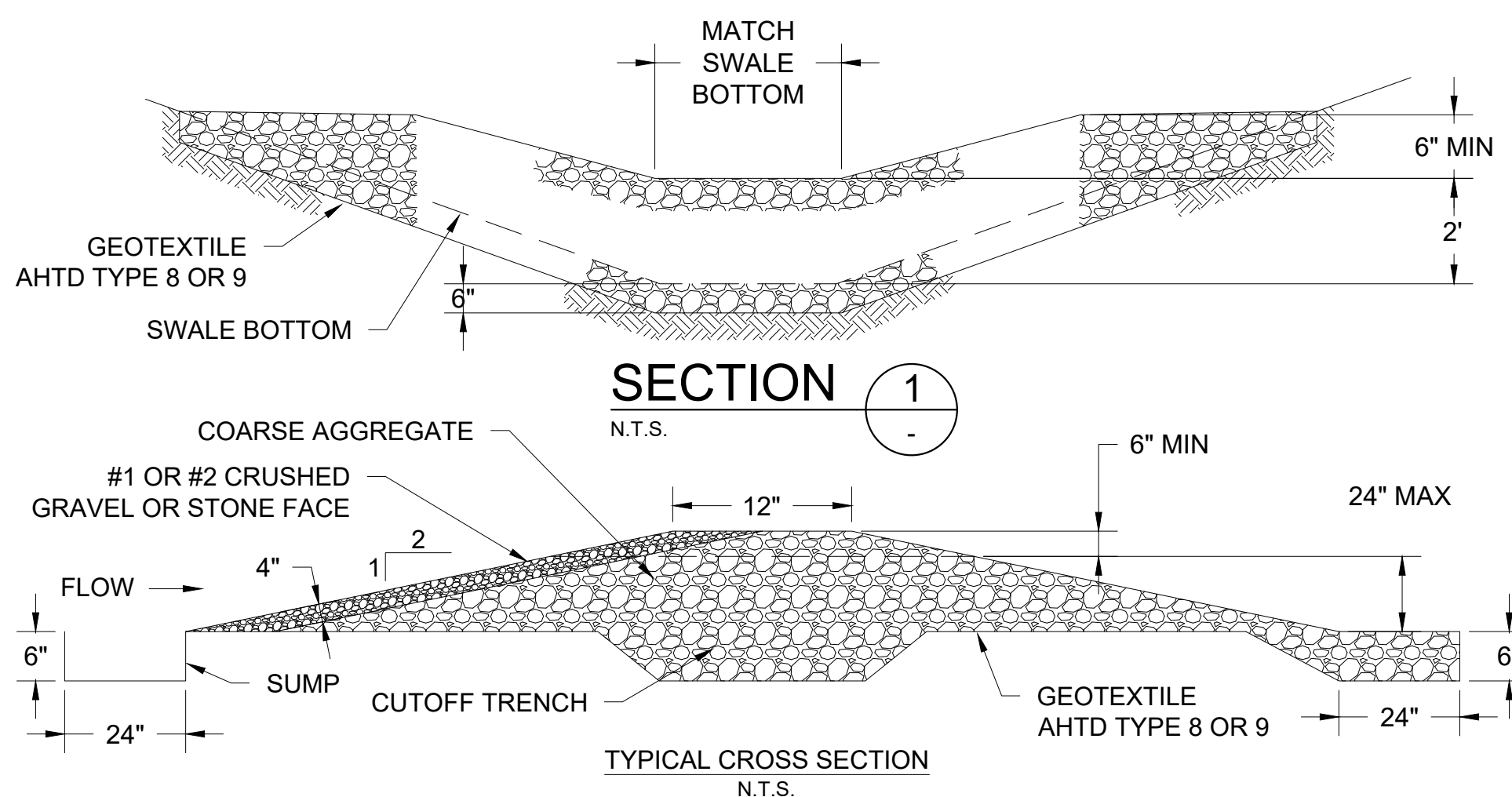
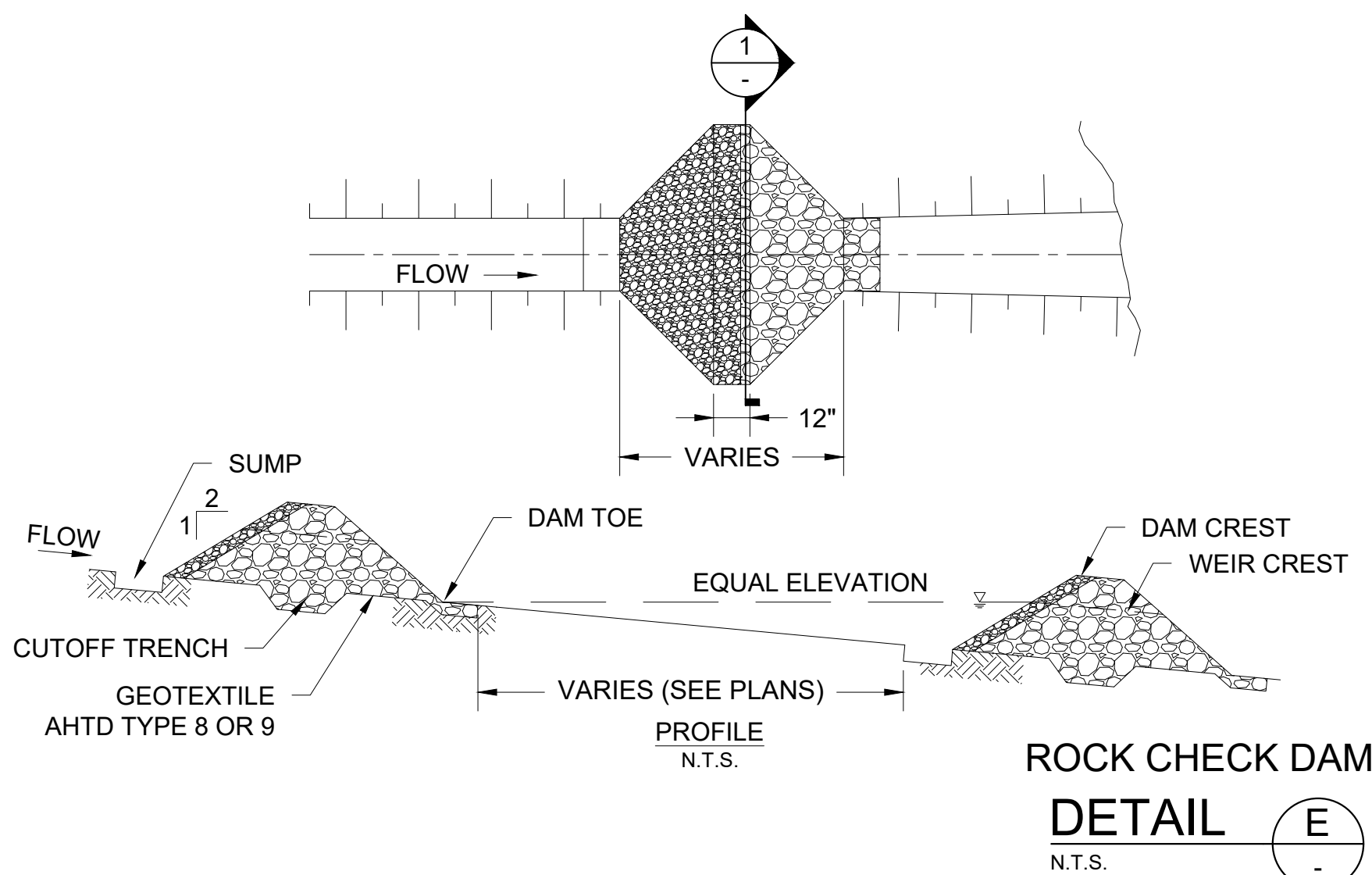
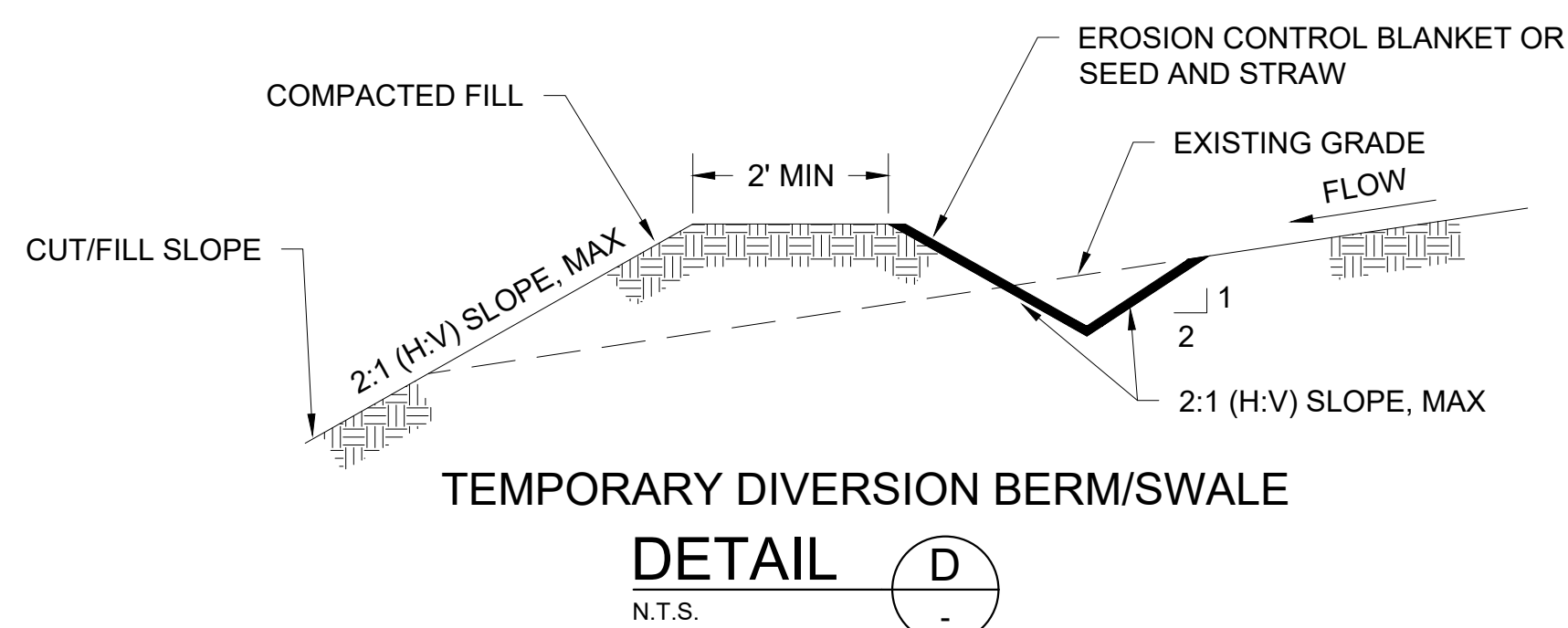
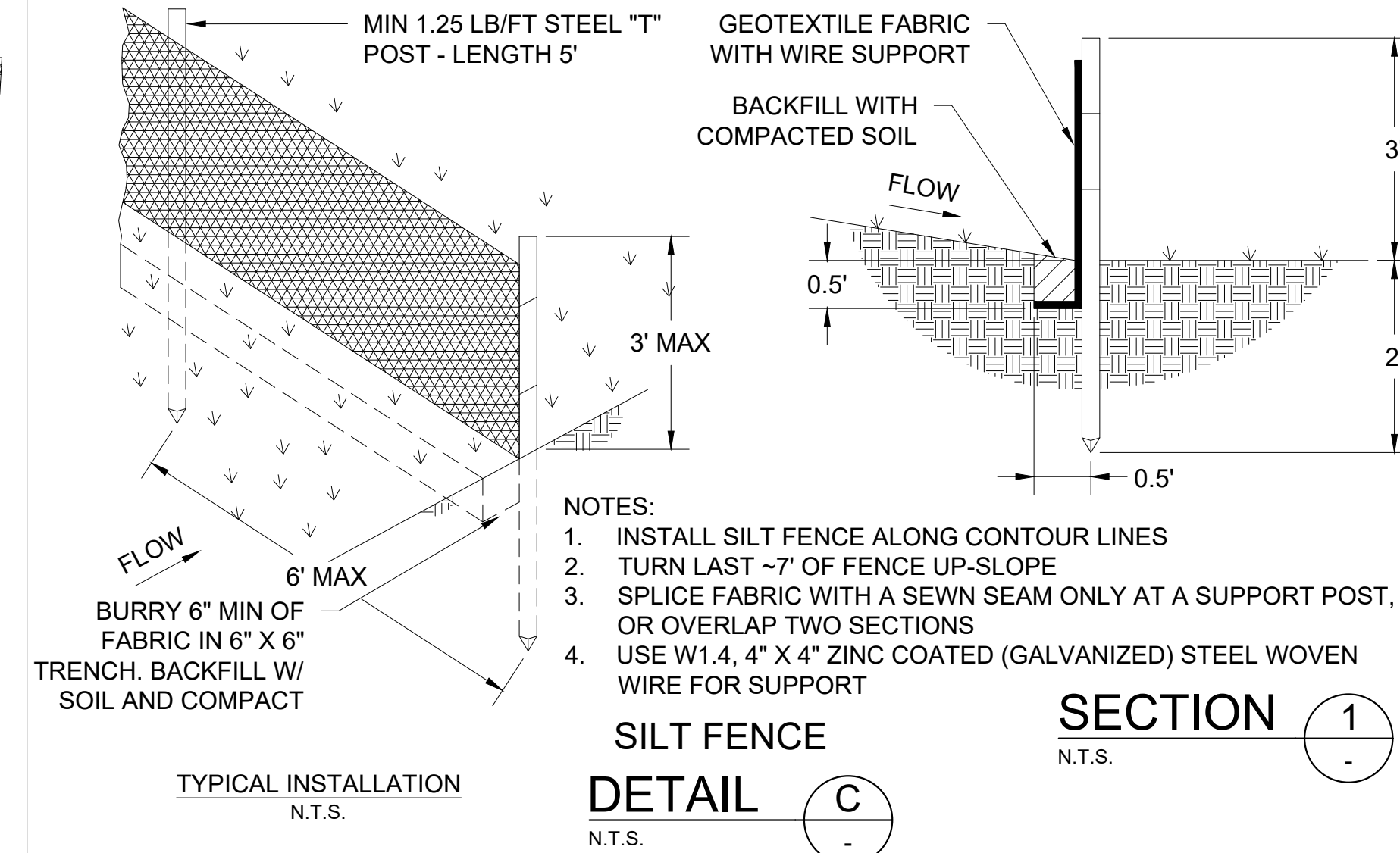
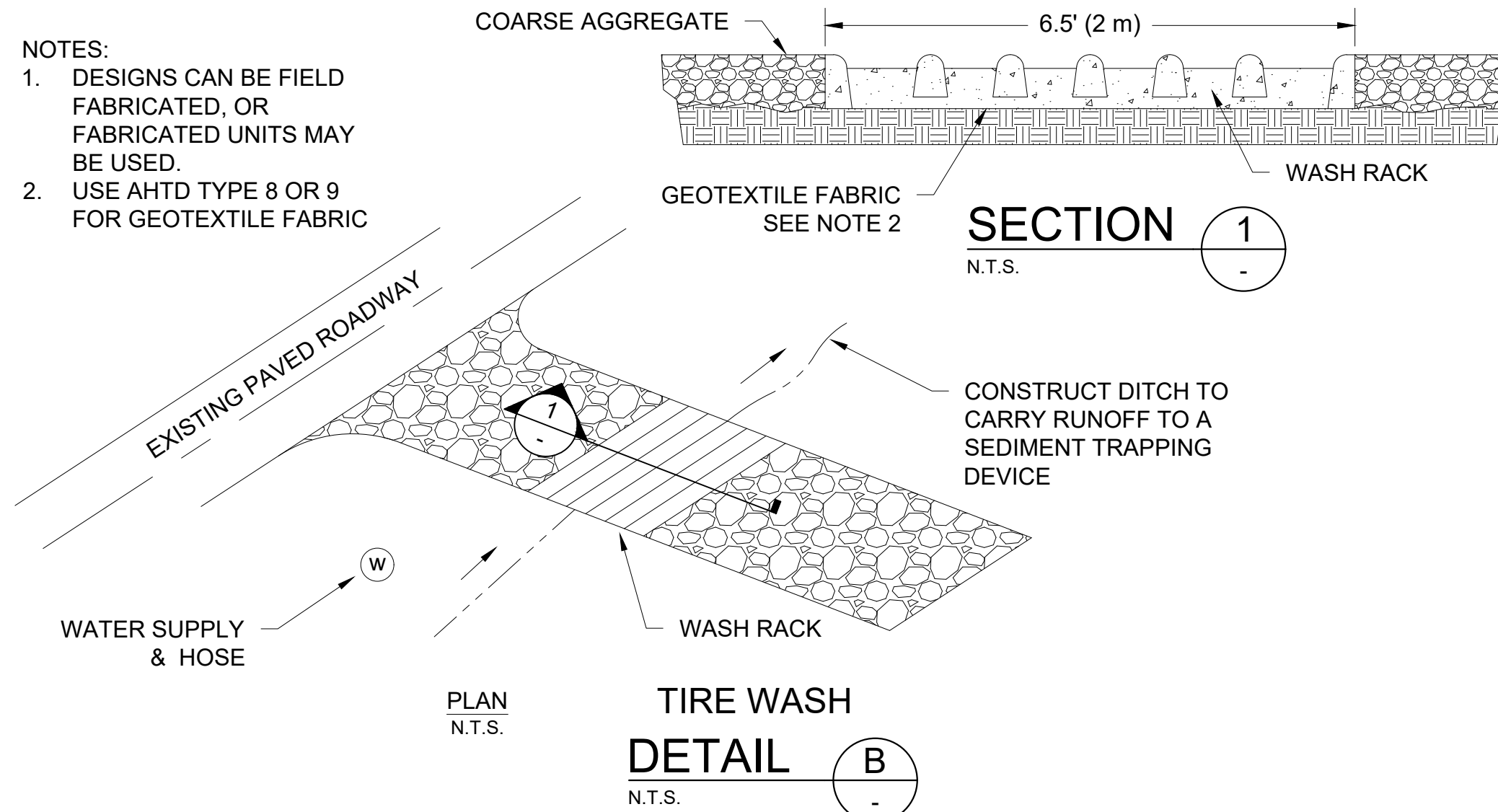
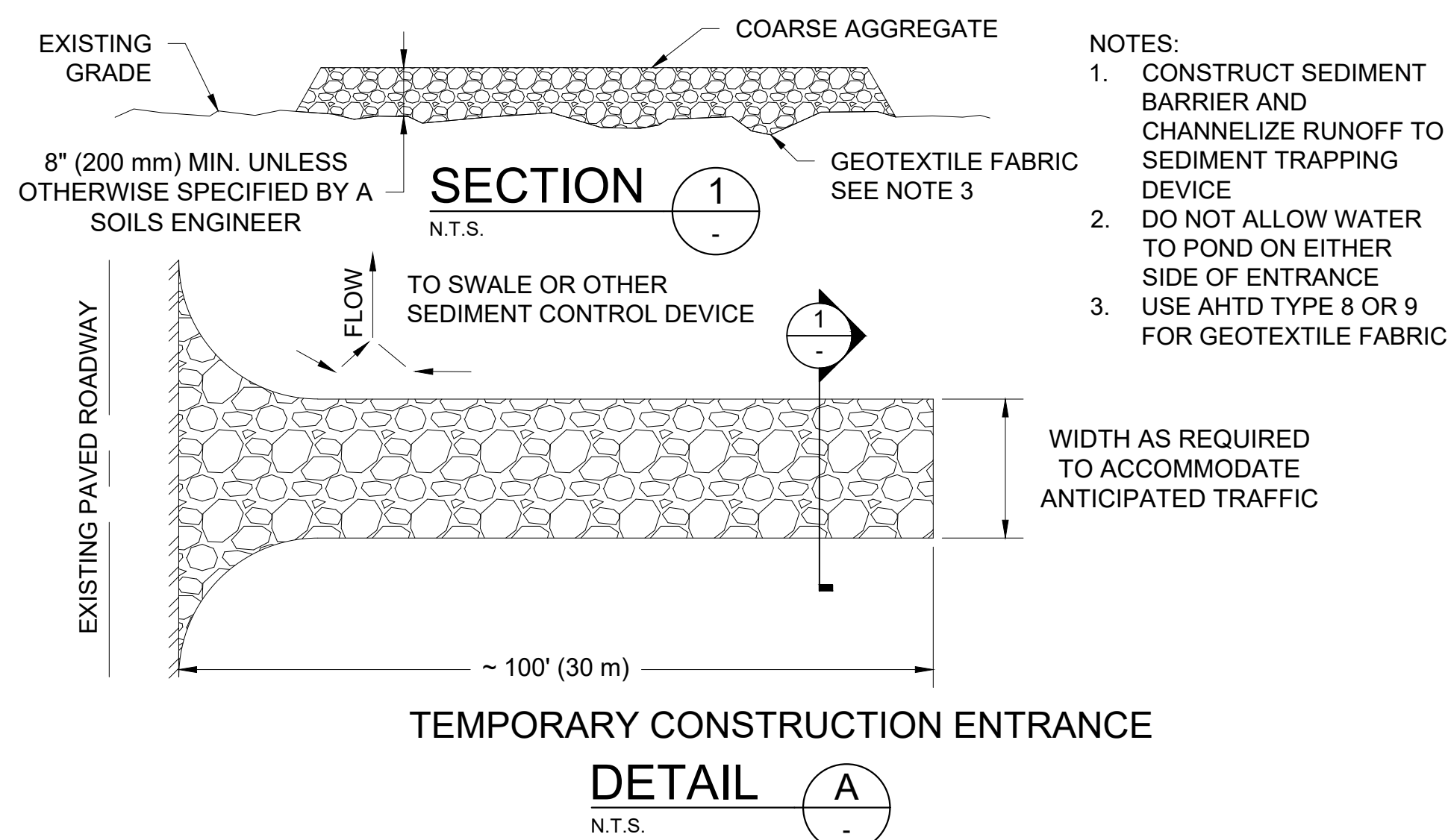
**SALT** Engineers & Planners  
 saltengineers.com | 501-766-9832  
 kbreckenridge@saltengineers.com

SCALE: N.T.S.  
 THIS LINE MEASURES 1" WHEN PLOTTED FULL-SIZE  
 DATE:



CITY OF MELBOURNE  
**CHAPEL HILL WATER BOOSTER STATION**

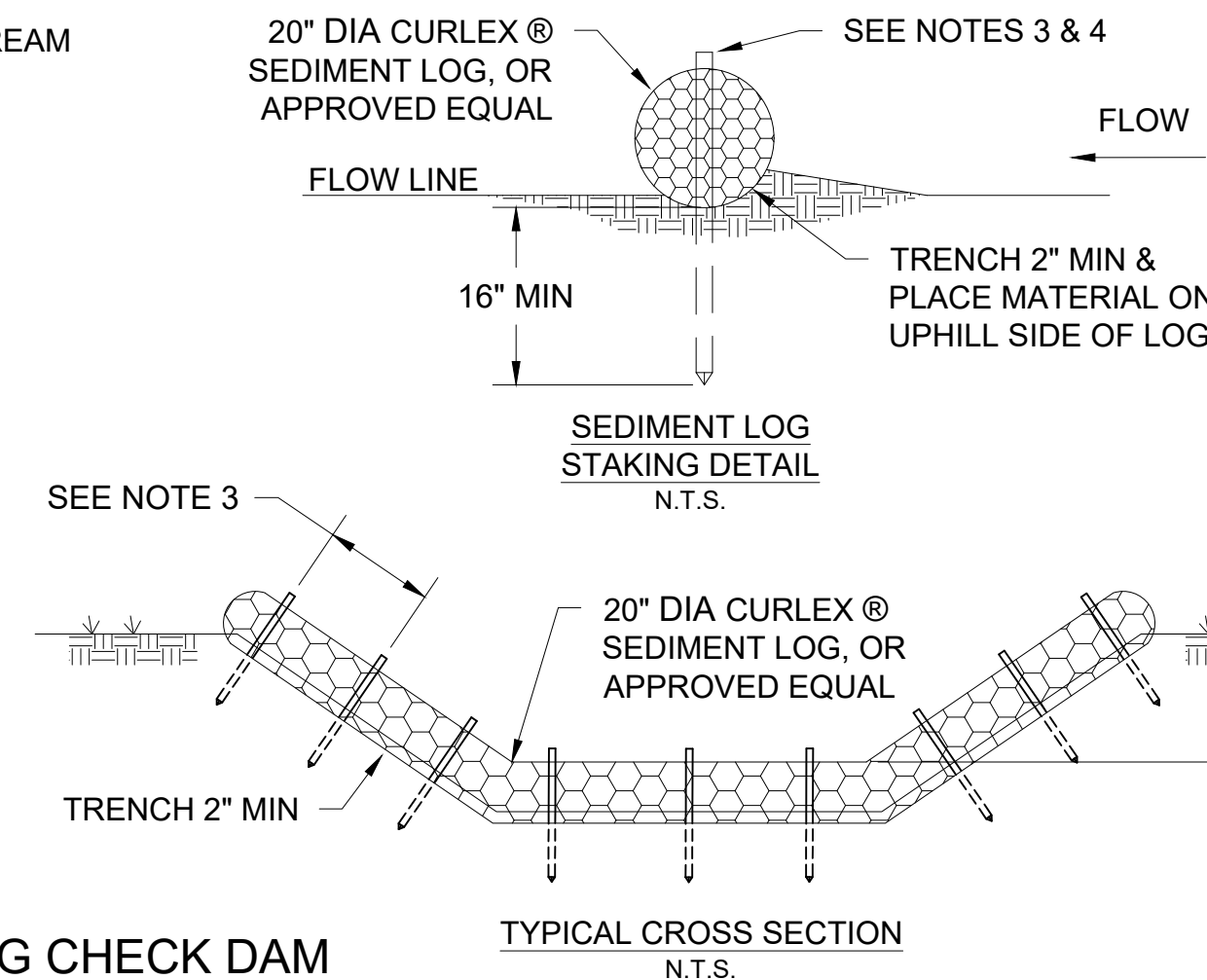
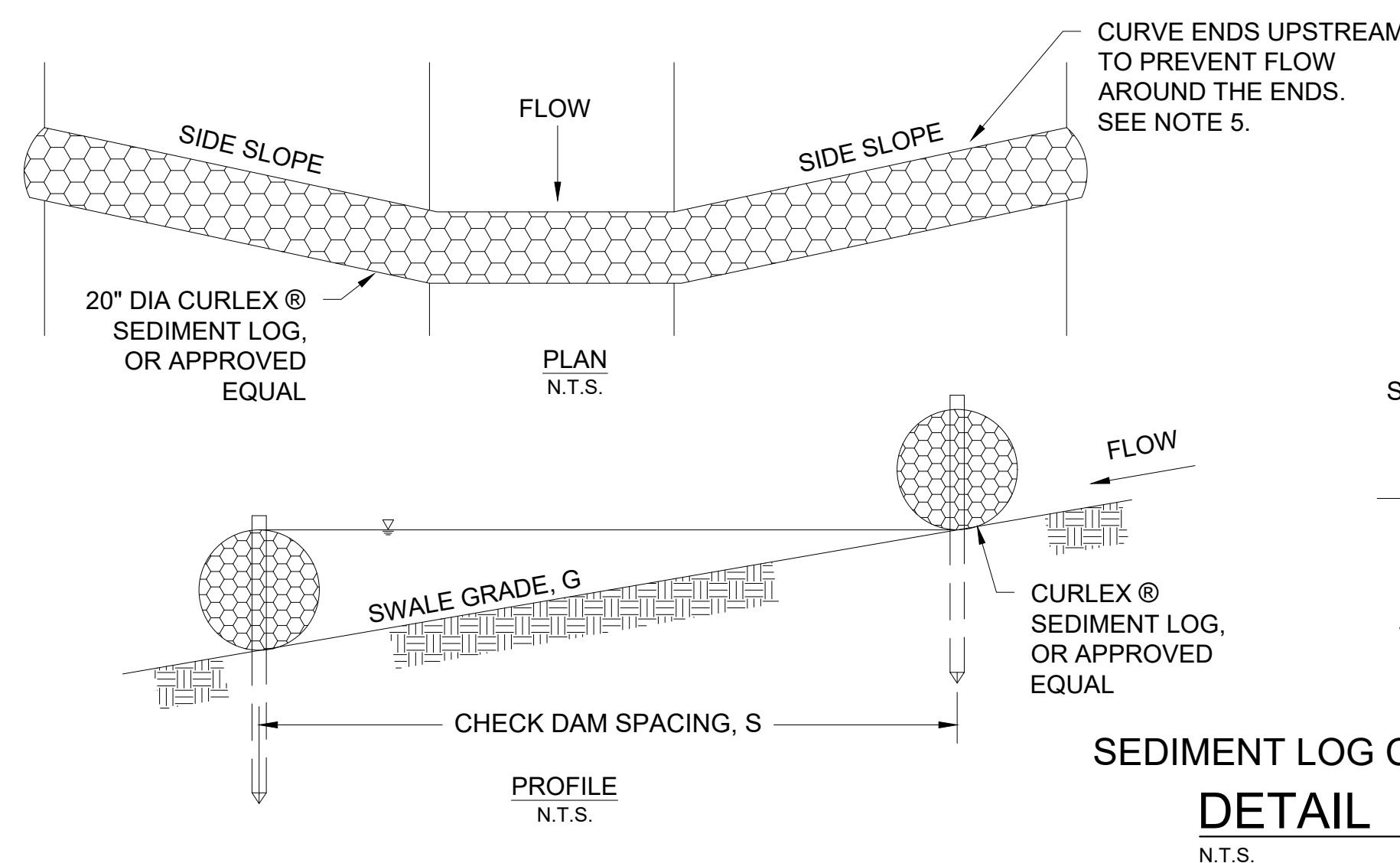
WATER STANDARD DETAILS 1	
PROJECT #	SHEET
39-24-01	11



SPECIES	SEEDING RATE (LB/1,000 FT <sup>2</sup> )	PLANTING TIME
RYE OR CEREAL GRASSES	2.3	AUG 15-JAN 20
BROWN TOP MILLET	1.25	JAN 21-AUG 14

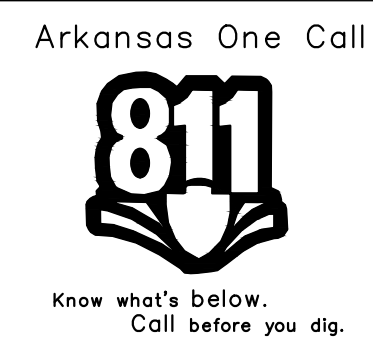
- NOTES:  
1. THE AREA DESIGNATED OR DIRECTED TO BE TEMPORARILY SEEDING DOES NOT HAVE TO BE BROUGHT TO GARDEN-LINE CONDITION, BUT SHALL BE LIGHTLY TILLED.  
2. FERTILIZER SHALL BE APPLIED AT THE RATE OF 11.5 LB/1,000 FT<sup>2</sup> OF 10-20-10 OR THE EQUIVALENT AMOUNT OF PLANT FOOD.  
3. MULCH COVER SHALL CONSIST OF STRAW FROM THRESHED RICE, OATS, WHEAT, BARLEY, OR RYE; OF WOOD EXCELSIOR, OR OF HAY OBTAINED FROM VARIOUS LEGUMES OR GRASSES SUCH AS LESPEDEZA, CLOVER, VETCH, SOYBEANS, BERMUDA, CARPET SEDGE, BAHIA, FESCUE, OR OTHER LEGUMES OR GRASSES; OR A COMBINATION THEREOF. MULCH SHALL BE DRY AND REASONABLY FREE FROM NOXIOUS WEEDS. MULCH COVER SHALL BE APPLIED AT THE RATE OF 92 LB/1,000 FT<sup>2</sup> IMMEDIATELY AFTER SEEDING AND SHALL BE SPREAD UNIFORMLY OVER THE ENTIRE AREA.  
4. FROM APRIL 1 TO DECEMBER 31, EITHER THE DAY BEFORE THE TEMPORARY SEEDING IS PLACED OR ON THE DAY OF THE TEMPORARY SEEDING OPERATION (EITHER BEFORE THE SEED IS PLACED OR AFTER THE APPLICATION OF THE MULCH COVER), A MINIMUM OF 0.5 M GAL/1,000 FT<sup>2</sup> OF WATER WILL BE APPLIED.

**TEMPORARY SEEDING**  
**DETAIL F**  
N.T.S.



- NOTE:  
1. REPAIR ALL RILLS OR GULLIES PRIOR TO INSTALLATION  
2. INSTALL CHECK DAMS IN SWALES PERPENDICULAR TO THE FLOWLINE  
3. STAKE SEDIMENT LOGS IN PLACE WITH 1 1/8" X 1 1/8" WOODEN STAKES. DRIVE STAKES AT EACH END OF THE SEDIMENT LOG AT 2' (MAX) SPACING.  
4. DRIVE STAKES INTO UNDISTURBED SOIL OF SWALE BOTTOM 16" (MIN). EXPOSE STAKES 2" MIN ABOVE TOP OF LOG.  
5. PROVIDE SUFFICIENT LENGTH TO PREVENT WATER FROM FLOWING AROUND THE ENDS OF THE SEDIMENT LOG.  
6. DO NOT USE WITH SWALE GRADE > 5%

CHECK DAM SPACING	
G (%)	S (FT)
1	150
2	75
3	50
4	40
5	30

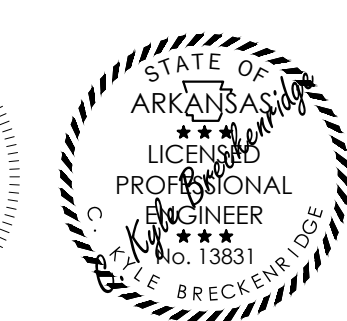


Engineers & Planners

saltengineers.com | 501-766-9832  
kbreckenridge@saltengineers.com

THIS LINE MEASURES 1" WHEN PLOTTED FULL-SIZE

DATE:



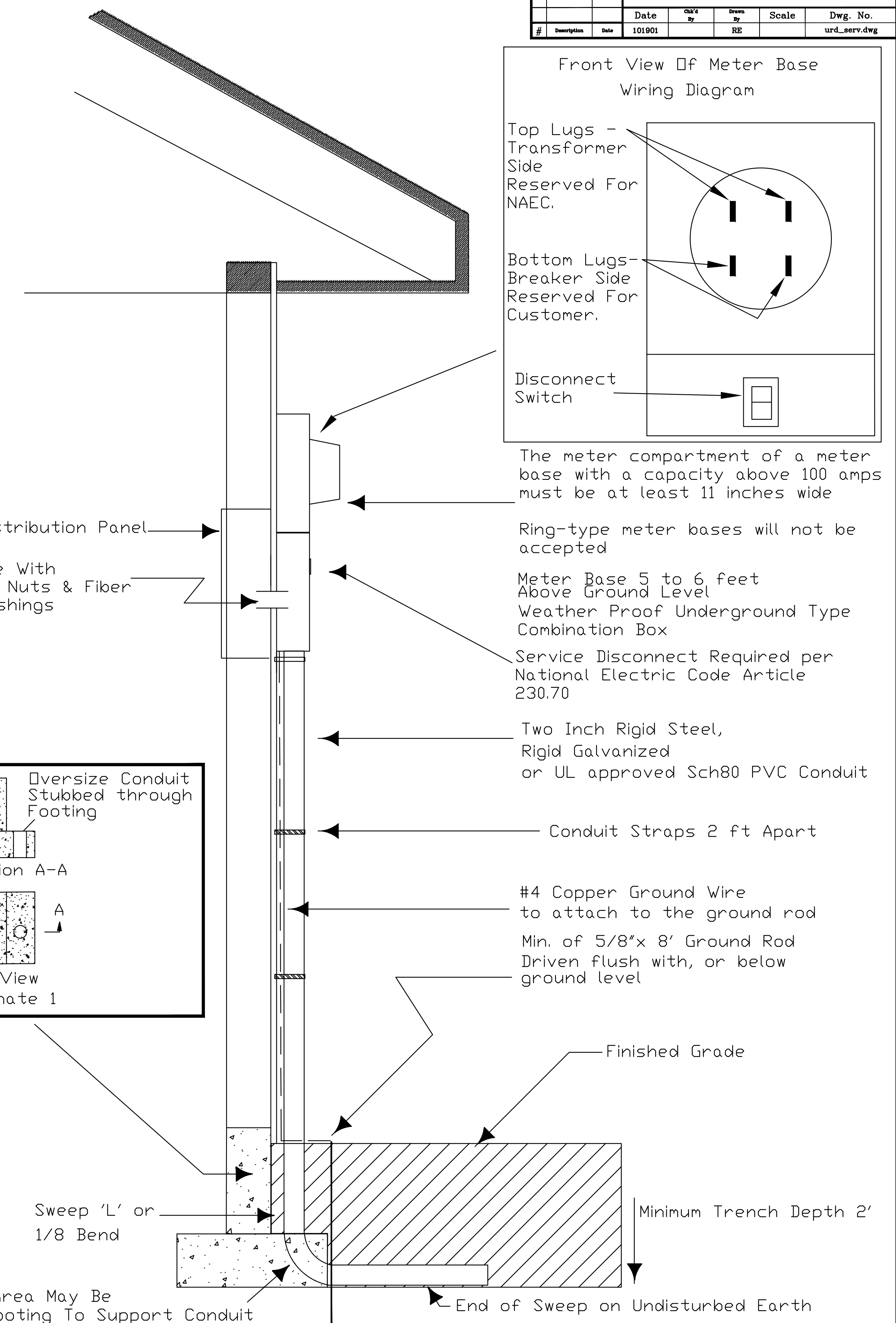
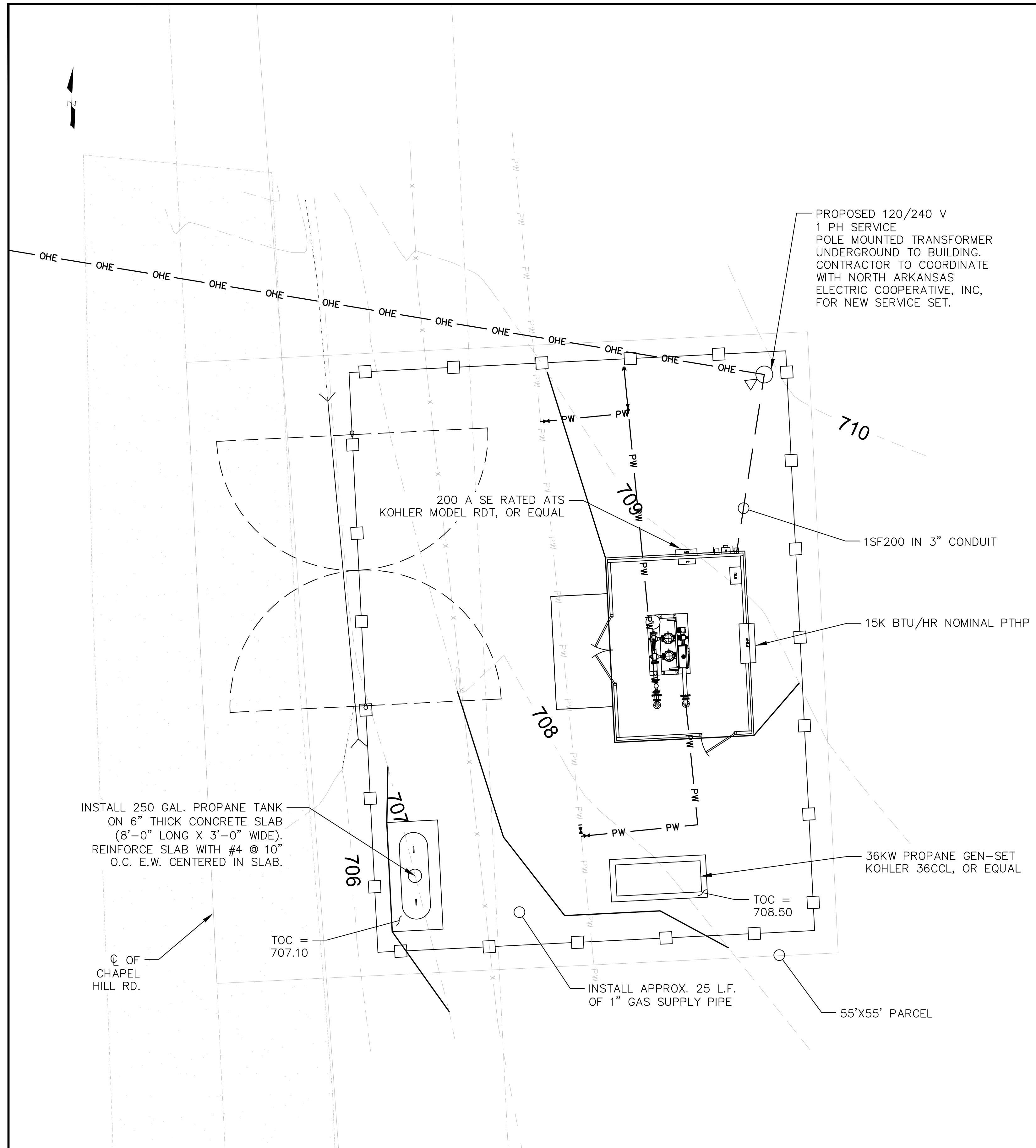
CITY OF MELBOURNE  
**CHAPEL HILL WATER BOOSTER STATION**

EROSION CONTROL DETAILS

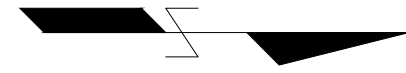
PROJECT # 39-24-01  
SHEET 12

Revision		North Arkansas Electric Cooperative, Inc.		Scale		Dwg. No.	
1	Issue	05/2011					
2	Revised 1' below existing grade	05/2011					
3		05/2011					
#	Description	Date	Drawn By	Scale	Dwg. No.		
		10/19/01	RE		urd_serv.dwg		

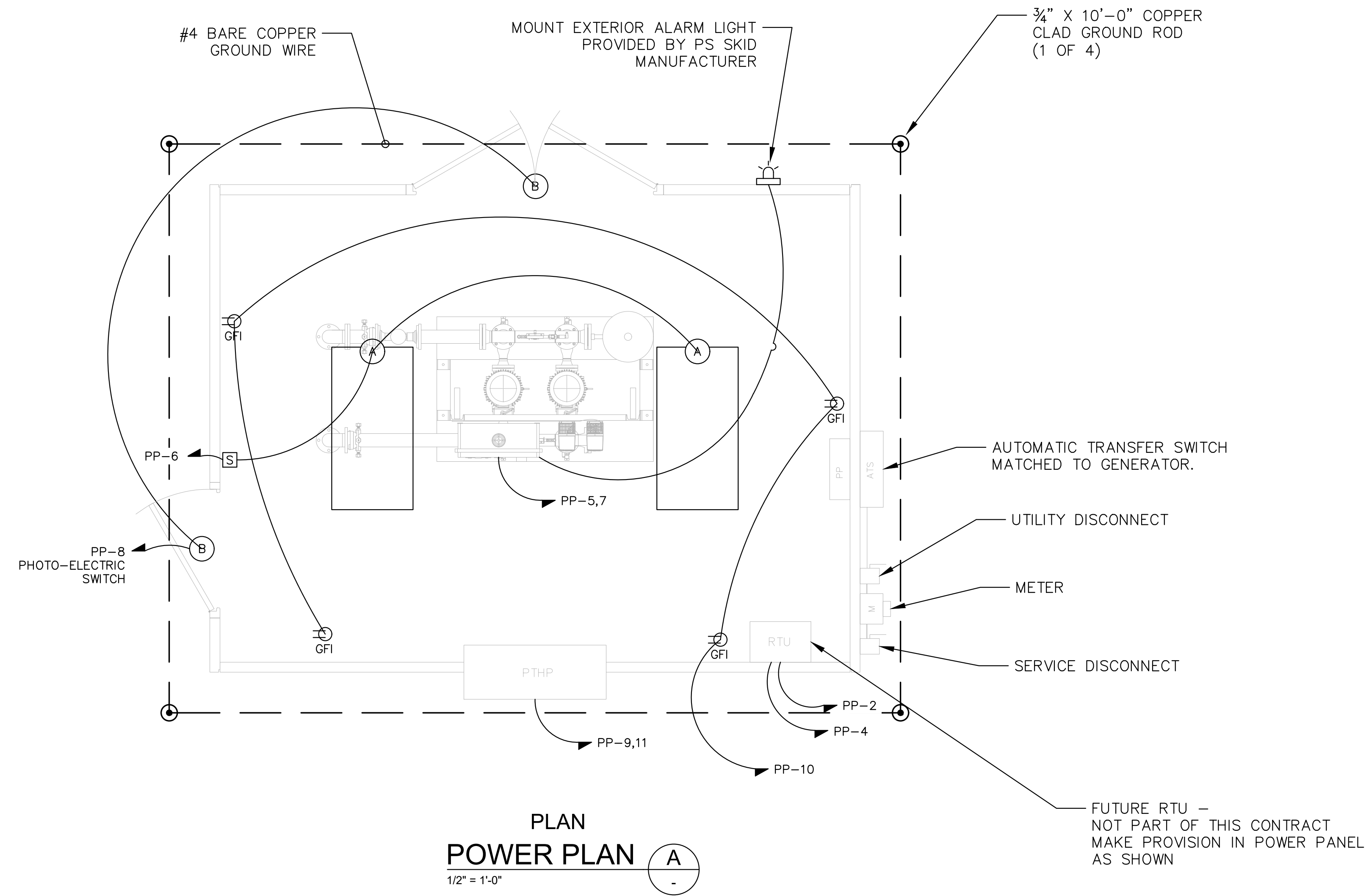
Underground Service



<p>Arkansas One Call 811 Know what's below. Call before you dig.</p>	<p><b>SALT</b> Engineers &amp; Planners saltengineers.com   501-766-9832 kbreckenridge@saltengineers.com</p>	<p>THIS LINE MEASURES 1" WHEN PLOTTED FULL-SIZE</p> <p>DATE:</p>	<p>3/12/24</p>	<p>CITY OF MELBOURNE</p> <p><b>CHAPEL HILL WATER BOOSTER STATION</b></p>		<p>ELECTRICAL SITE PLAN</p>	
				<p>PROJECT #</p> <p>39-24-01</p>	<p>SHEET</p> <p>13</p>		

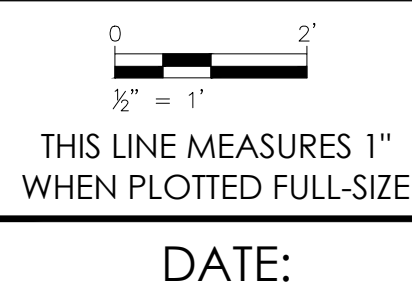
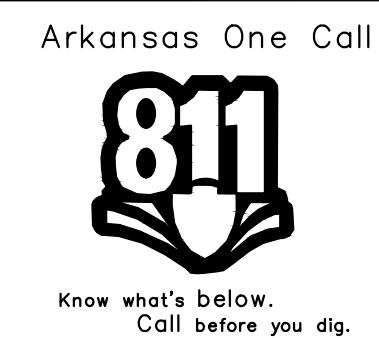


PANELBOARD SCHEDULE									
PANEL: PP		VOLTS: 240/120 1PH, 3W		MAIN: 200 A MCB		10,000 AIC			
DESCRIPTION	BKR	NO.	A	B	A	B	NO.	BKR	DESCRIPTION
SURGE PROTECTIVE DEVICE	60A/2P	1	0.000		1.000		2	20A/1P	RADIO (FUTURE)
SURGE PROTECTIVE DEVICE	-	3		0.000		1.000	4	20A/1P	RTU (FUTURE)
PACKAGED PS DCP	100A/2P	5	12.00		0.250		6	20A/1P	LIGHTING
	-	7		12.00		0.250	8	20A/1P	LIGHTING
PTHP	30A/2P	9	3.600		0.500		10	20A/1P	RECEPTACLES
	-	11		3.600		0.500	12	20A/1P	SPARE
BLOCK HEATER		13	1.500		0.000		14	20A/1P	
BATTERY CHARGER		15		1.500		0.000	16	20A/1P	
		17	0.000		0.000		18	20A/1P	
		19		0.000		0.000	20	20A/1P	
			17.10	17.10	1.75	1.75			
			18.85	18.85	TOTAL CONNECTED KVA				
			37.70						
			48.00		DESIGN KVA				
			200		DESIGN AMPS				



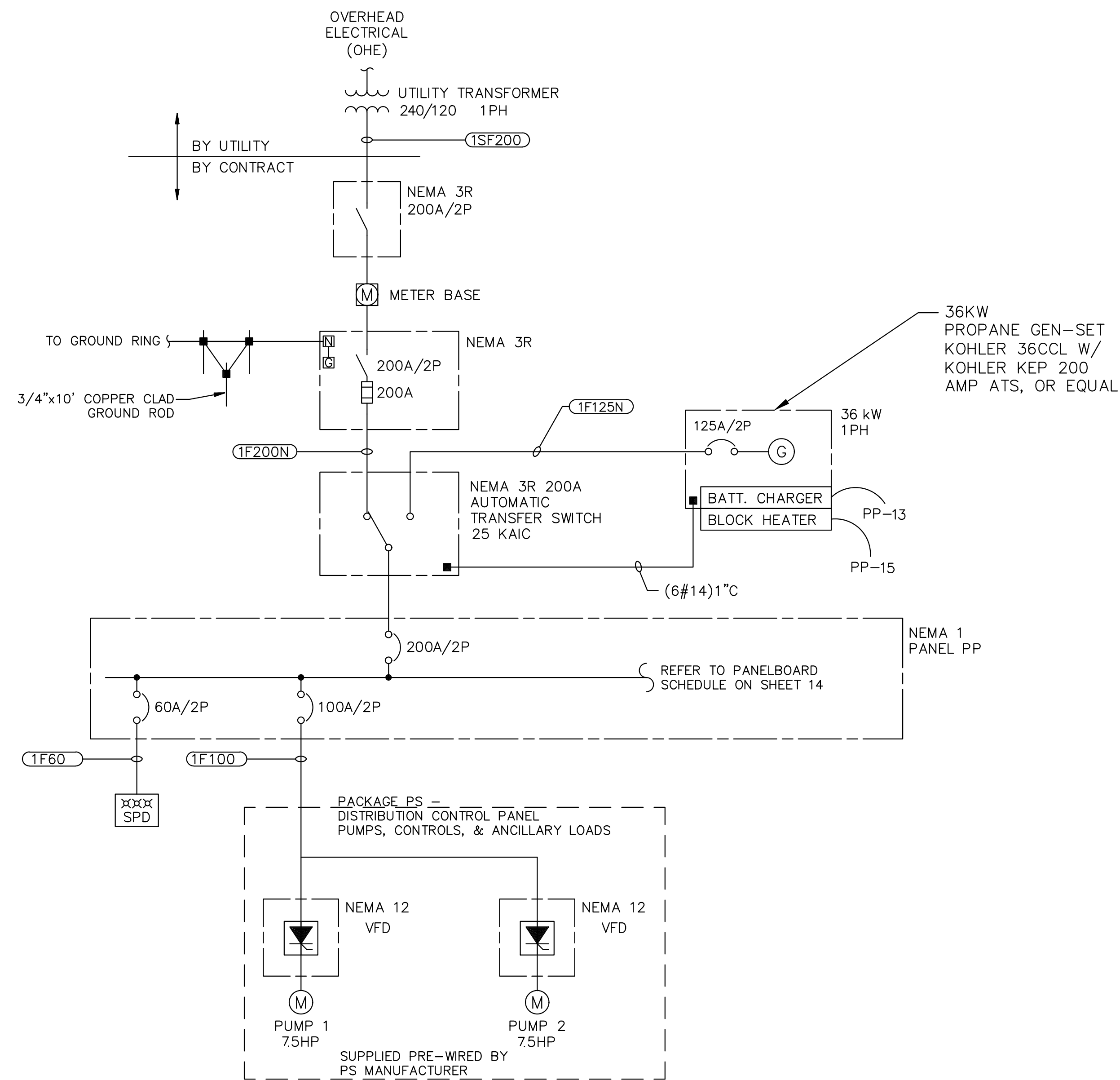
DETAIL  
POWER PLAN (B)  
NTS

LIGHT FIXTURE SCHEDULE						
ID	TYPE	MANUFACTURER	MODEL	LAMP TYPE	VOLTAGE	WATTS
A	INTERIOR 4' STRIP, LED	RED SKY LIGHTING	LNR2-40-100-277-4K-110-H2-CP-GRY-YKE	LED	120	40
B	EXTERIOR WALL, LED	RED SKY LIGHTING	RND2-40-120-277-4K-120-H2-DG-GRY-WL9002	LED	120	35



CITY OF MELBOURNE  
**CHAPEL HILL  
WATER BOOSTER STATION**

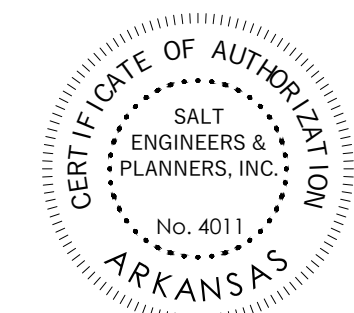
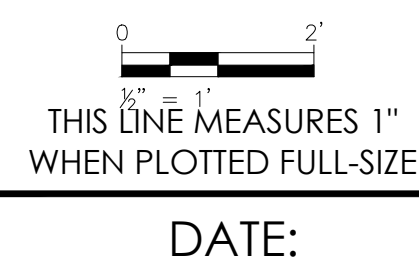
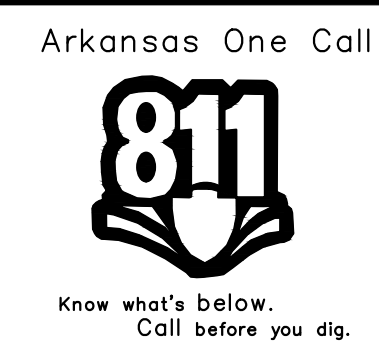
PS ELECTRICAL PLAN  
PROJECT # 39-24-01 SHEET 14



FEEDER DESIGNATION	AMPERE RATING	CONDUCTOR SIZE (AWG OF KCML)		CONDUIT	
		PH	GND	NO. RUNS	SIZE
		F20	20	12	12
F30	30	10	10	1	1"
F40	40	8	10	1	1-1/4"
F50	50	6	10	1	1-1/4"
F60	60	6	10	1	1-1/4"
F70	70	4	8	1	1-1/2"
F80	80	4	8	1	1-1/2"
F90	90	2	8	1	2"
F100	100	2	8	1	2"
F110	110	2	6	1	2"
F125	125	1/0	6	1	2-1/2"
F150	150	1/0	6	1	2-1/2"
F175	175	2/0	6	1	2-1/2"
F200	200	3/0	6	1	3"
F225	225	4/0	4	1	3"
F250	250	250	4	1	4"
F300	300	350	4	1	4"
F350	350	500	2	1	4"
F400	400	500	1/0	1	4"
F450	450	4/0	2	2	3"
F500	500	250	2	2	4"
F600	600	350	1/0	2	4"
F700	700	500	1/0	2	4"
F800	800	500	1/0	2	4"
F1000	1000	500	2/0	3	4"
F1200	1200	350	3/0	4	4"
F1600	1600	500	4/0	5	4"
F2000	2000	500	250	6	4"
F2500	2500	500	350	7	4"
F3000	3000	500	500	8	4"
F4000	4000	500	500	11	4"

**FEEDER SCHEDULE NOTES:**

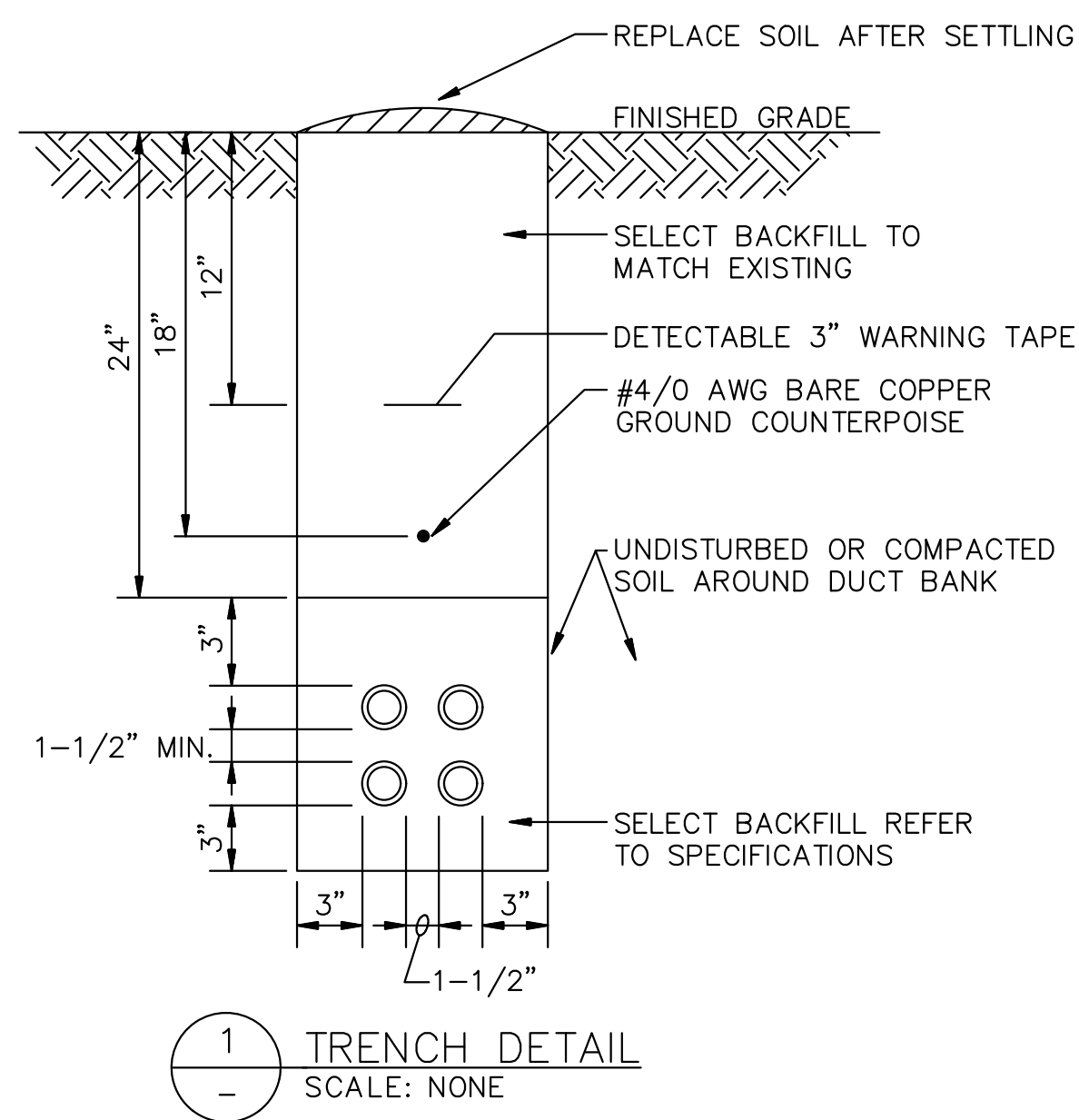
- "H" SUFFIX INDICATES THAT FEEDER IS TO BE USED ON A 480 VOLT CIRCUIT.
- "L" SUFFIX INDICATES THAT FEEDER IS TO BE USED ON 208/240 VOLT CIRCUIT.
- "N" SUFFIX INDICATES THAT FEEDER CONTAINS A FULL SIZE NEUTRAL CONDUCTOR. OTHERWISE PROVIDE ONLY PHASE AND GROUND CONDUCTORS.
- "1" PREFIX INDICATES A SINGLE PHASE FEEDER (LINE-TO-LINE). OTHERWISE ASSUME 3-PHASE FEEDER.
- "S" PREFIX INDICATES A SERVICE FEEDER CONSISTING OF PHASE CONDUCTORS PLUS A FULL SIZE GROUNDED SERVICE CONDUCTOR (NEUTRAL).
- "CO" MEANS PROVIDE CONDUIT ONLY FOR THAT FEEDER SIZE.



CITY OF MELBOURNE  
**CHAPEL HILL WATER BOOSTER STATION**

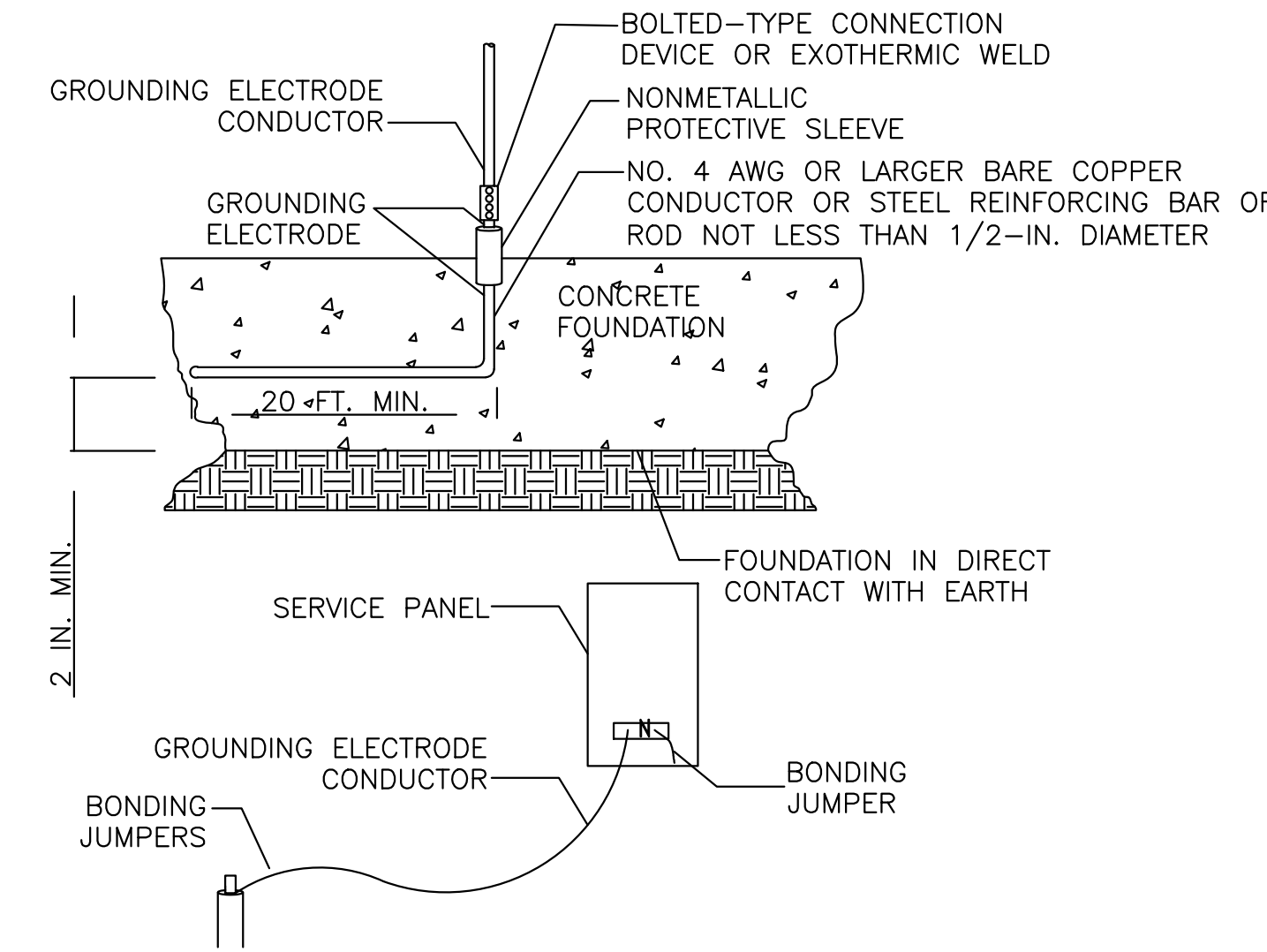
ELECTRICAL ONE-LINE  
PROJECT # 39-24-01  
SHEET 15



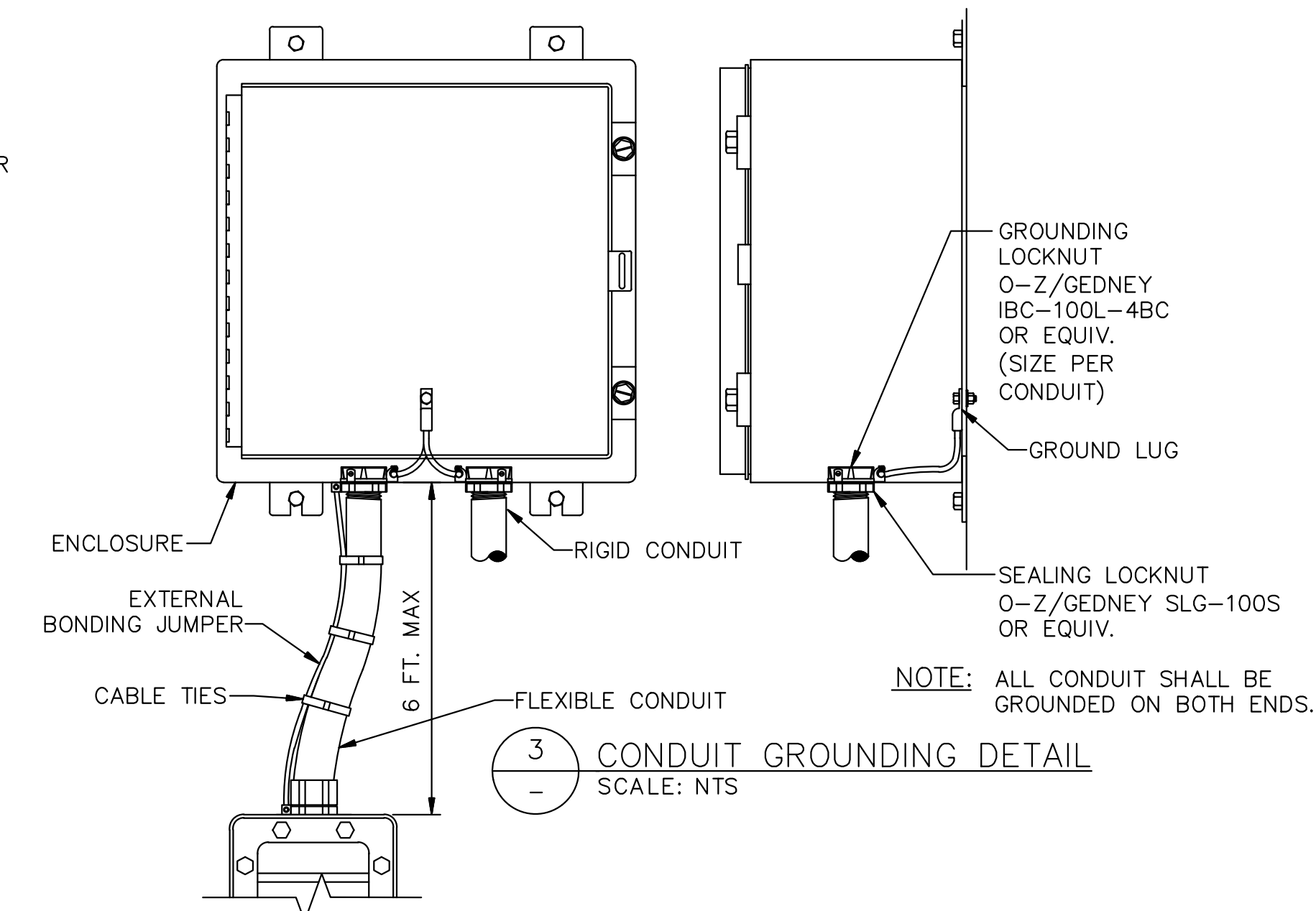


1 TRENCH DETAIL  
SCALE: NONE

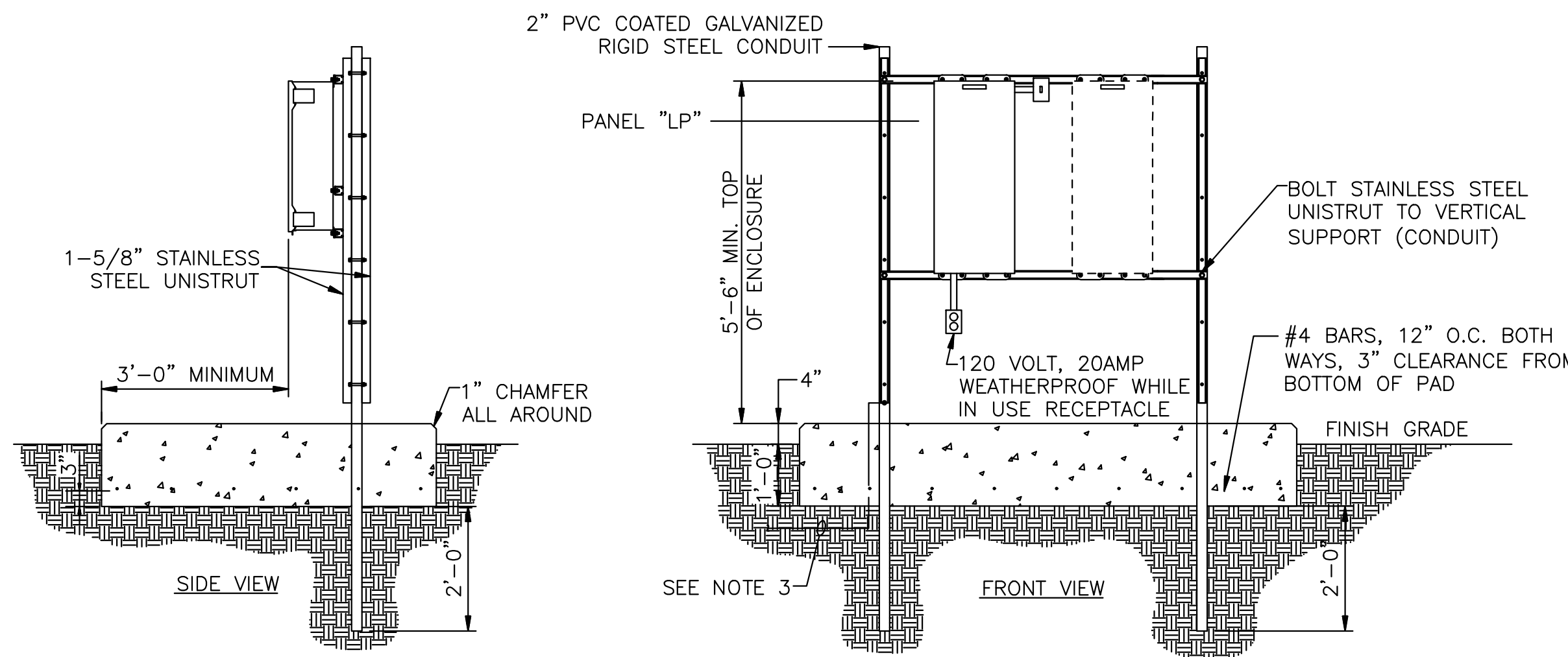
- ELECTRICAL DUCT NOTES:**
- CONTRACTOR SHALL STAKE THE DUCT INSTALLATION IN PLAN AND ELEVATION FOR NEW ELECTRICAL DUCTS TO AVOID EXISTING UTILITIES.
  - CONTRACTOR SHALL ADJUST THE DEPTH OF THE ELECTRICAL DUCTS AS REQUIRED TO MAINTAIN THE MINIMUM COVER REQUIREMENT INDICATED AND AVOID EXISTING UTILITIES.
  - SIMILAR CONSTRUCTION FOR OTHER DUCT SIZES. SEE DUCT BANK SCHEDULE FOR QUANTITY AND SIZES.
  - INSTALL DUCT CONDUIT SUPPORTS AT 5'-0" O.C. MAXIMUM SPACING (TYPICAL ALL DUCTS).
  - OFFSETS AND BENDS OVER 10 DEGREES AND ELBOWS IN PVC CONDUIT RUNS SHALL BE GALVANIZED RIGID STEEL CONDUIT.
  - NO PVC SHALL EMERGE FROM THE GROUND OR CONCRETE SLAB OR ENCASEMENT, PVC SHALL CONVERT TO GALVANIZED RIGID STEEL CONDUIT PRIOR TO ITS EMERGENCE.
  - INSTALL GROUND RODS AT ENDS OF ELECTRICAL DUCT OR CONNECT TO GROUND RING.
  - INSTALL CONDUCTORS AND CABLES AS NOTED ON DRAWING. INSTALL PULLWIRE IN ALL SPARE DUCTS.
  - MINIMUM COVER REQUIREMENT FOR DUCT BANKS UNDER ROADS, DRIVEWAYS AND PARKING LOTS SHALL BE 24".
  - MINIMUM COVER REQUIREMENTS FOR ELECTRICAL SECONDARY SERVICE DUCT BANKS SHALL BE 30".
  - MINIMUM COVER REQUIREMENTS FOR ELECTRICAL PRIMARY SERVICE DUCT BANKS SHALL BE 36".



- GROUND GRID NOTES:**
- INSTALL 1/0 AWG STANDED BARE SOFT DRAWN COPPER (BSDC) WIRE AND BOND GROUND TO REINFORCING STEEL BAR IN CONCRETE STRUCTURE FOOTING.
  - MAKE ALL CONNECTIONS USING EXOTHERMIC WELDING (CADWELD) PROCESS.
  - INSTALL 3/4" CONDUIT WITH (1)-#1/0 AWG COPPER GROUNDING ELECTRODE CONDUCTOR BETWEEN BUILDING STEEL COLUMN AND GROUND. REMOVE PAINT DOWN TO BARE AND BOND GROUND TO STEEL WITH MECHANICAL LUG. REPAINT AFTER INSTALLATION IS COMPLETE.
- 2 NEC 250 ELECTRICAL GROUNDING DETAIL  
SCALE: NTS

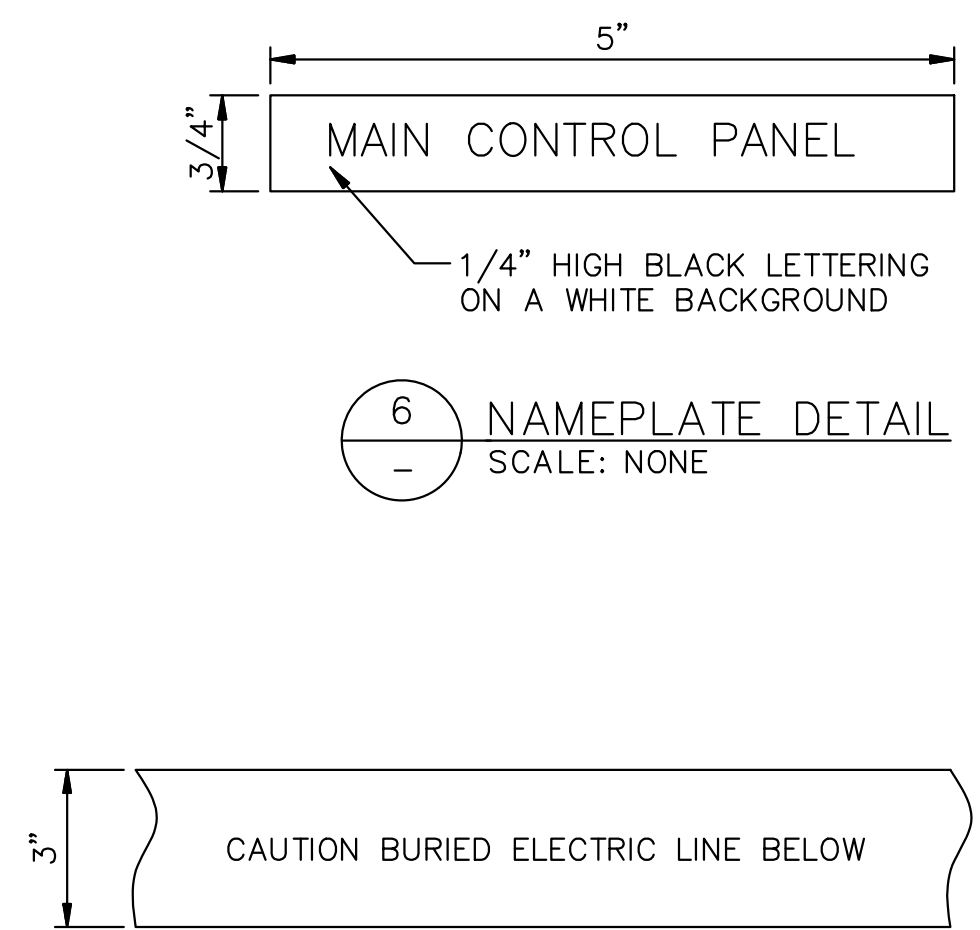


3 CONDUIT GROUNDING DETAIL  
SCALE: NTS



- NOTES:**
- ALL BOLTS, NUTS, WASHERS, ANCHORS, PLATES, AND OTHER MOUNTING STEMS SHALL BE CORROSION RESISTANT, STAINLESS STEEL.
  - BOND ELECTRICAL EQUIPMENT SUPPORT FRAME TO COUNTERPOISE AND GROUND RINGS USING #4/0 AND EXOTHERMIC WELDS.

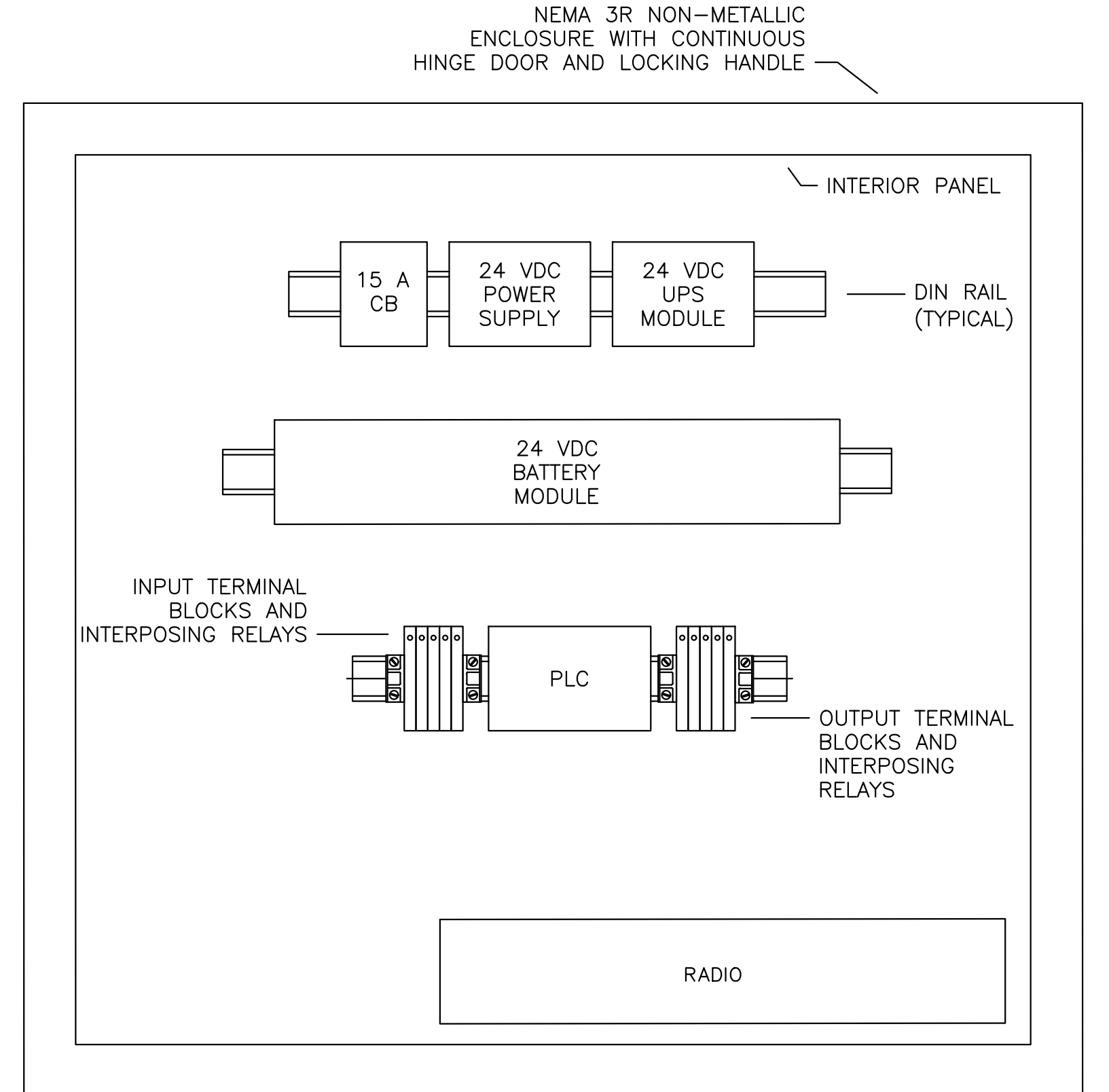
4 MISC. SUPPORT DETAIL  
SCALE: NTS



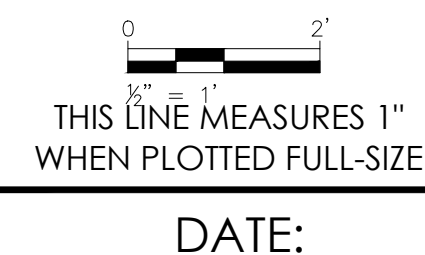
6 NAMEPLATE DETAIL  
SCALE: NONE

- GENERAL NOTES:**
- POWER MARKING TAPES SHALL BE DETECTABLE TYPE CONSTRUCTION WITH RED BACKGROUND AND BLACK LETTERING.
  - COMMUNICATION MARKING TAPES SHALL BE DETECTABLE TYPE CONSTRUCTION WITH ORANGE BACKGROUND AND BLACK LETTERING, "TELEPHONE LINE" OR "FIBER OPTIC LINE" RESPECTIVELY.
  - TAPE SHALL BE DETECTABLE, DURABLE, HIGHLY VISIBLE, RESISTANT TO ELEMENTS, MEETING AND/OR EXCEEDING ALL INDUSTRY STANDARDS.

5 UNDERGROUND DETECTABLE WARNING TAPE  
SCALE: NONE



7 REMOTE TERMINAL UNIT "RTU" LAYOUT  
SCALE: NONE



CITY OF MELBOURNE  
**CHAPEL HILL WATER BOOSTER STATION**

ELECTRICAL DETAILS	
PROJECT #	SHEET
39-24-01	16

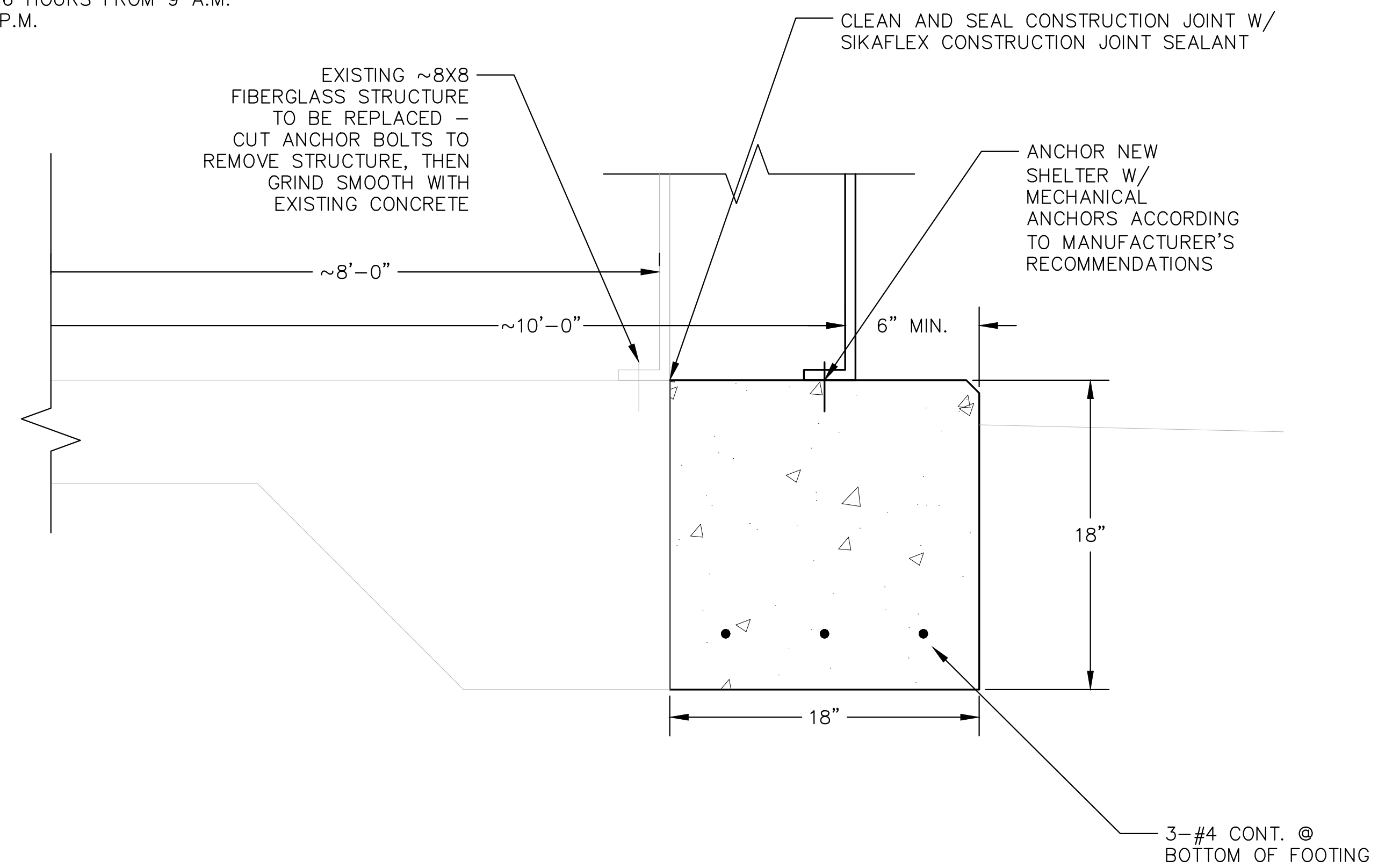


PHOTO  
**HWY 9 S PS BUILDING**  
 NTS (A)

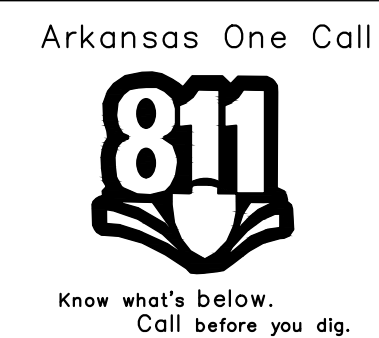
PROVIDE NEW BUILDING W/  
 PRE-WIRED LIGHTS, CONVENIENCE RECEPTACLES, HEATING,  
 AND VENTILATION TERMINATED IN JUNCTION BOXES.  
 CONTRACTOR TO PROVIDE NEW CONDUIT AND LEADS FROM  
 EXISTING INTERIOR POWER PANEL (REUSED) TO NEW  
 JUNCTION BOXES FOR BUILDING POWER.

EXISTING ~8X8  
 FIBERGLASS STRUCTURE  
 TO BE REPLACED -  
 REMOVE AND DISPOSE OF  
 EXISTING STRUCTURE

CONSTRUCT UNI-STRUT  
 SUPPORTS FOR INTERIOR  
 ELECTRICAL PANELS &  
 CONDUIT AS REQUIRED FOR  
 BUILDING REPLACEMENT. PS  
 MAY BE DOWN NO LONGER  
 THAN 6 HOURS FROM 9 A.M.  
 TO 3 P.M.



DETAIL  
**HWY 9 S PS BUILDING FOUNDATION**  
 NTS (B)



**SALT** Engineers & Planners  
 saltengineers.com | 501-766-9832  
 kbreckenridge@saltengineers.com

0 1 2'  
 1/4" = 1'  
 THIS LINE MEASURES 1" WHEN PLOTTED FULL-SIZE  
 DATE:

CERTIFICATE OF AUTHORITY  
 SALT ENGINEERS & PLANNERS, INC.  
 No. 4011  
 No. 13831  
 STATE OF ARKANSAS  
 LICENSED PROFESSIONAL ENGINEER  
 3/12/24

CITY OF MELBOURNE  
**CHAPEL HILL  
 WATER BOOSTER STATION**

HWY 9 S PS ENCLOSURE	
PROJECT # 39-24-01	SHEET 17