

Upgrades to Pump Station "B"

PREPARED FOR

TOWN OF EDISTO BEACH COLLETON COUNTY, SOUTH CAROLINA

DECEMBER 2021

JOB # 21-028

Town of Edisto Beach, S.C.

Mayor

W. Crawford Moore, Jr.

Council

Jerome Kizer

Jay Watts

Robert Renner

Joey Bagwell

Town Administrator

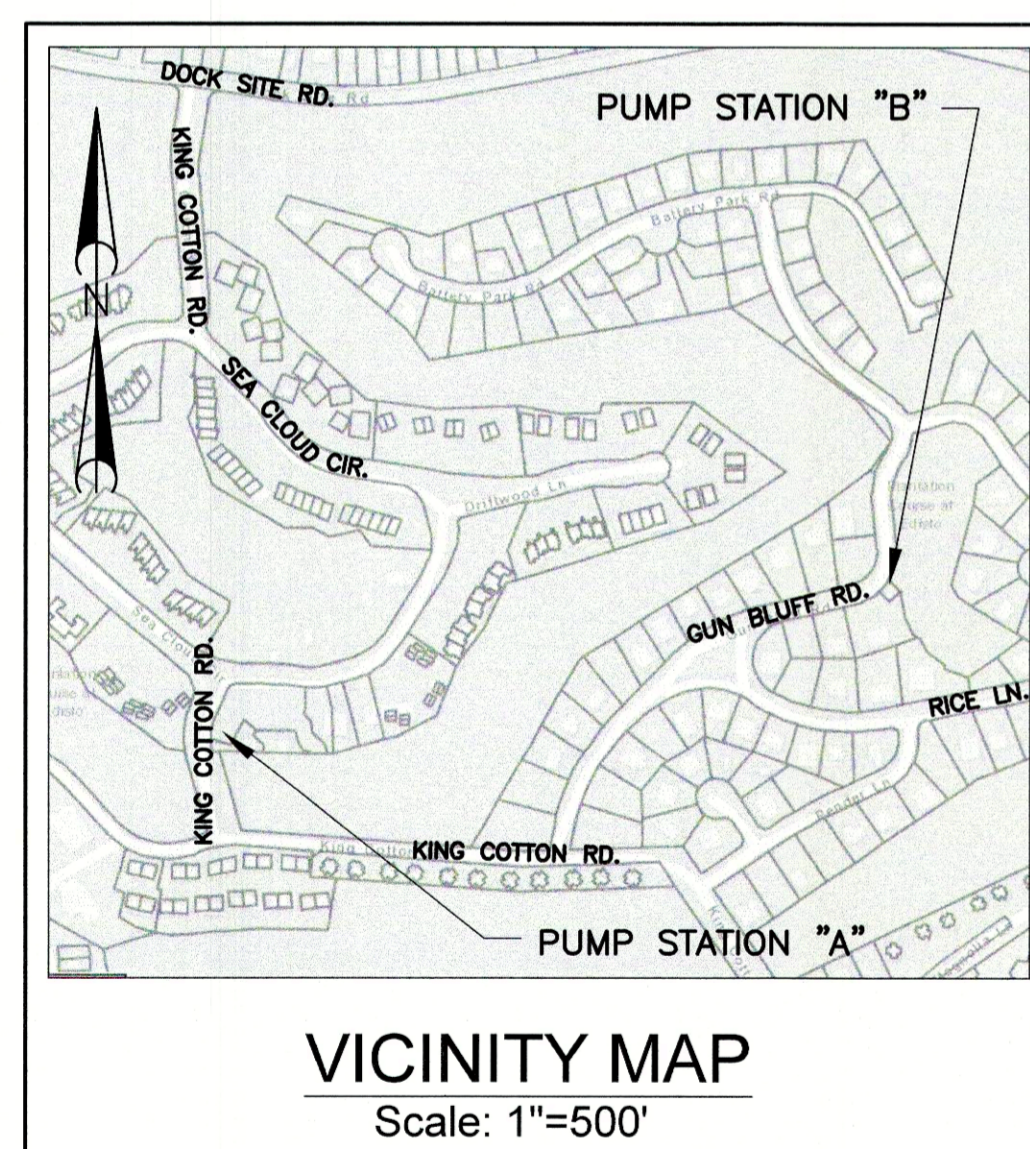
Iris Hill

Utilities Director

Patrick Zemp

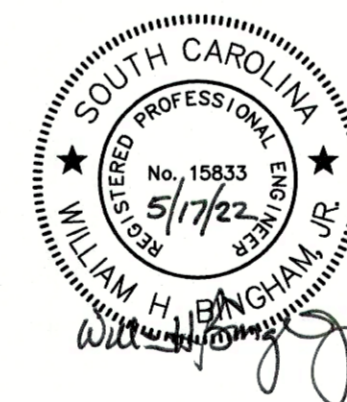
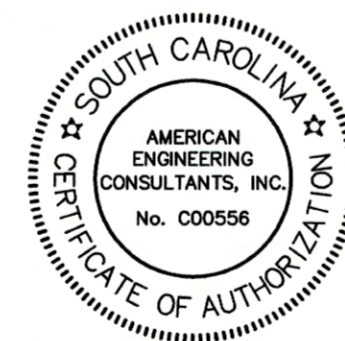


Town of Edisto Beach



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ENGINEERING CONSULTANTS, INC.

AMERICAN ENGINEERING CONSULTANTS, INC.

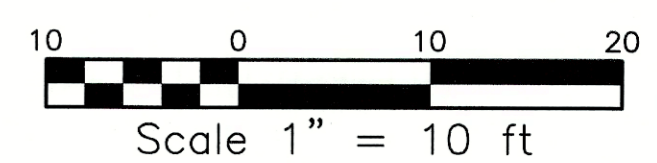
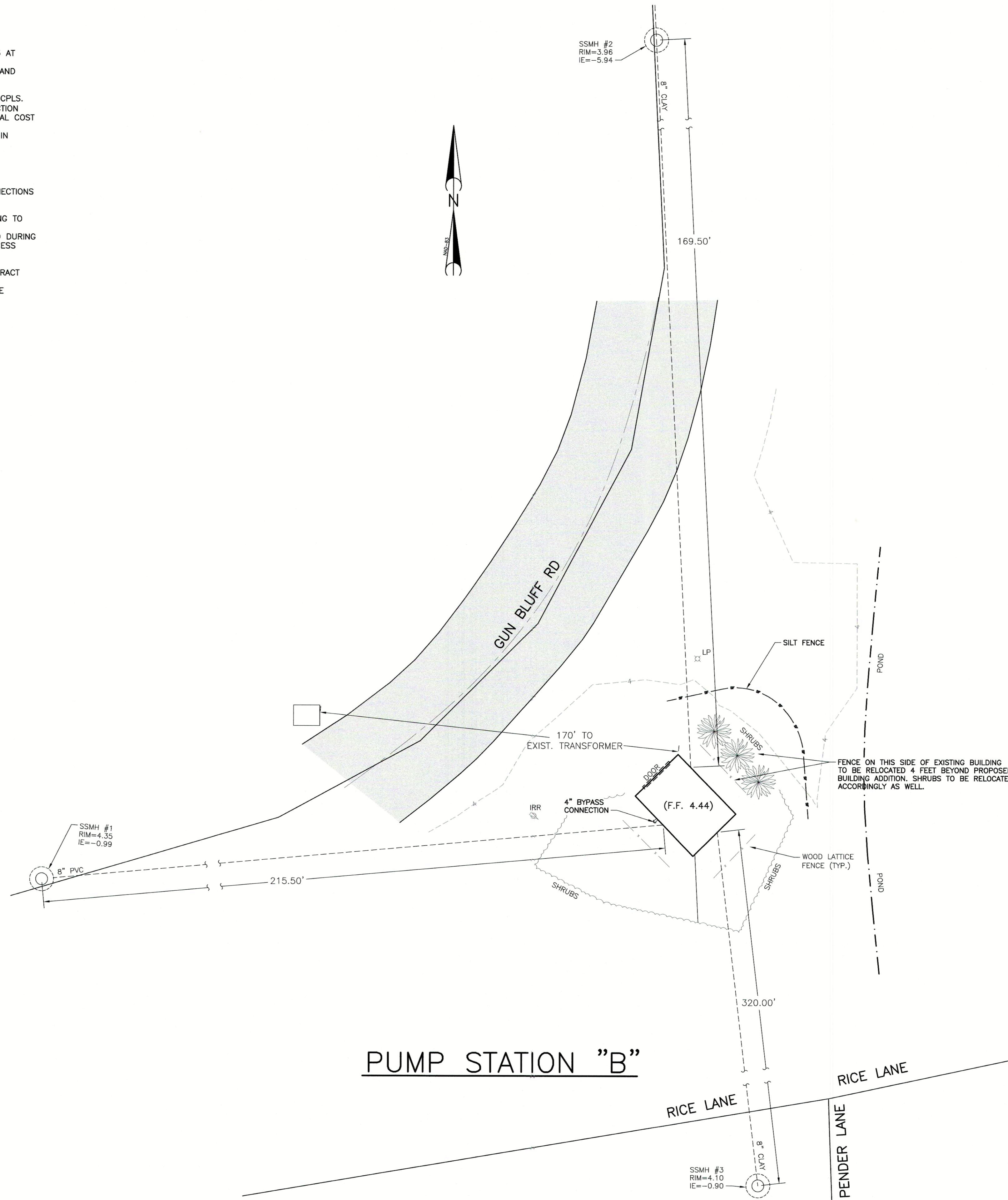
1300 12th Street • P.O. Box 2299 • Cayce, SC 29171

Phone: (803) 791-1400 • Fax: (803) 791-8110

Internet: www.aec-sc.com • Email: info@aec-sc.com

GENERAL NOTES

1. CONTRACTORS SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL UNDERGROUND UTILITIES, AND ANY AND ALL DAMAGES RESULTING FROM THE FAILURE TO DO SO. CONTACT PALMETTO UTILITY PROTECTION SERVICE (PUPS) AT (800) 922-0983 AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION FOR LOCATION OF UTILITIES.
2. CONTRACTOR SHALL ABIDE BY ALL PROVISIONS OF THE COUNTY THAT THE PROJECT IS IN REGARDS TO STORM DRAINAGE AND EROSION CONTROL ORDINANCE AND THE SOUTH CAROLINA SEDIMENT REDUCTION ACT.
3. ALL CONSTRUCTION STAKING SHALL BE PROVIDED AT THE CONTRACTORS EXPENSE.
4. RECORD DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND CERTIFIED AS CORRECT BY REG. SCPLS.
5. CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY OBSTRUCTIONS (FENCES, MAILBOXES, ETC.) IN THE PATH OF CONSTRUCTION AND REPLACING THEM IN THE SAME CONDITION INITIALLY FOUND OR AS SHOWN IN CONTRACT DRAWINGS AT NO ADDITIONAL COST TO THE OWNER.
6. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING WASTEWATER FLOWS AT ALL TIMES, WHETHER PERMANENT OR TEMPORARY IN NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES, FEES AND ANY CLEANUP COSTS ASSOCIATED WITH OVERFLOWS/SPILLS DURING CONSTRUCTION.
7. CONTRACTOR IS RESPONSIBLE TO PROVIDE PUMPING BYPASSING AS PER THE APPROPRIATE SPECIFICATION
8. WHERE BYPASS PIPING IS INSTALLED ACROSS OR ADJACENT TO A ROADWAY, CONTRACTOR SHALL PROVIDE APPROPRIATE PROTECTION TO PREVENT DAMAGE TO PIPING.
9. CONTRACTOR SHALL INCORPORATE THE USE OF LINE STOPPERS AS NECESSARY TO AVOID ANY SPILL DURING TIE-IN/CONNECTIONS TO EXISTING LINES.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR THE INTEGRITY OF THE EXISTING FACILITIES.
11. CONTRACTOR IS RESPONSIBLE FOR REMAINING IN COMPLIANCE WITH ALL OSHA STATE & FEDERAL REGULATIONS PERTAINING TO WORKING WITH WASTEWATER GASES, COMBUSTIBLE OXYGEN DEFICIENT ATMOSPHERES, AND CONFINED SPACES.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESS ROAD IN GOOD CONDITION. ANY DETERIORATION OF ROAD DURING CONSTRUCTION SHALL BE PROMPTLY REPAIRED UPON COMPLETION OF CONSTRUCTION. ALL DISTURBED AREAS ALONG ACCESS ROAD SHALL BE SEEDED AND REFERTILIZED UPON COMPLETION OF CONSTRUCTION.
13. ANY EXISTING FENCE LINES SHALL BE REMOVED AND REINSTALLED AS REQUIRED FOR BYPASS PUMPING PURPOSES.
14. BIDDER SHALL VISIT THE SITE TO FAMILIARIZE HIMSELF WITH THE WORK TO BE PERFORMED IN ACCORDANCE TO THE CONTRACT DOCUMENTS.
15. COORDINATE WITH TOWN ON ANY ITEMS TO BE DEMOLISHED OR REMOVED TO DETERMINE WHICH ITEMS, IF ANY, ARE TO BE SALVAGED AND DELIVERED TO THE TOWN.
16. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRAFFIC FLOW AROUND SITES WHERE APPLICABLE.
17. NOTIFY CITY 48 HOURS BEFORE ANY BYPASS PUMPING ACTIVITIES BEGIN.
18. THESE NOTES APPLY TO ALL SHEETS IN THIS SET OF DRAWINGS.

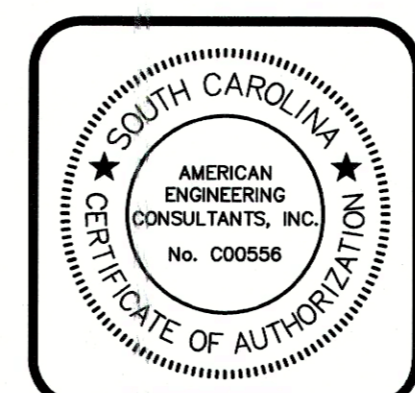


5/13/2022 8:39 AM ARVAS09 P:\21-028\DWGS\PS-MAIN.DWG

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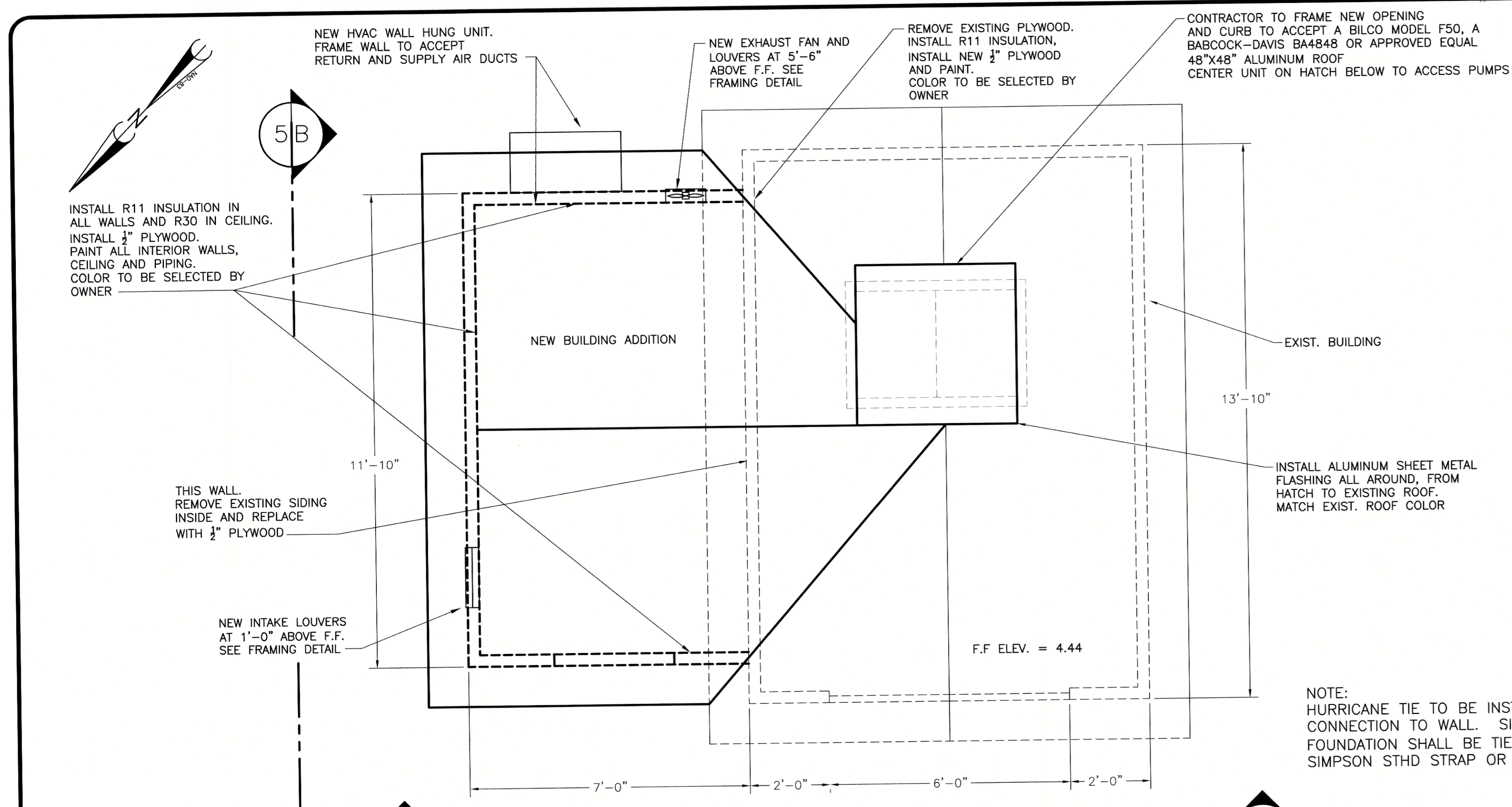


DATE SEPTEMBER 2021

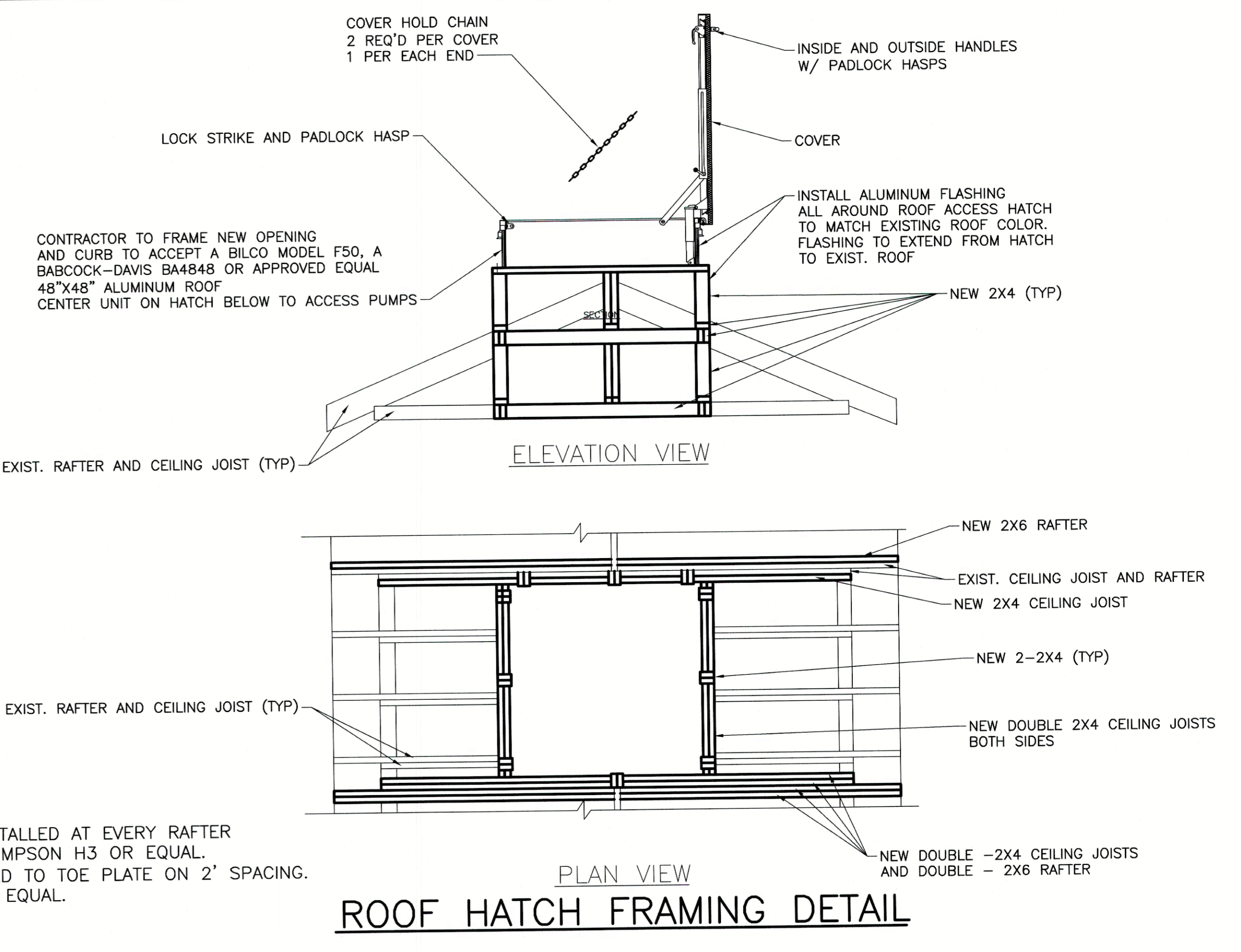
SCALE	AS SHOWN
DRAWN	MAB
DESIGNED	BMC
CHECKED	WHB
JOB NO	21-028
CAD FILE	PS-MAIN
LAYOUT	LAYOUT1

Upgrades to Pump Station "B"
 PREPARED FOR
Town of Edisto Beach
 Colleton County, South Carolina
 Pump Station "B" - Site Plan

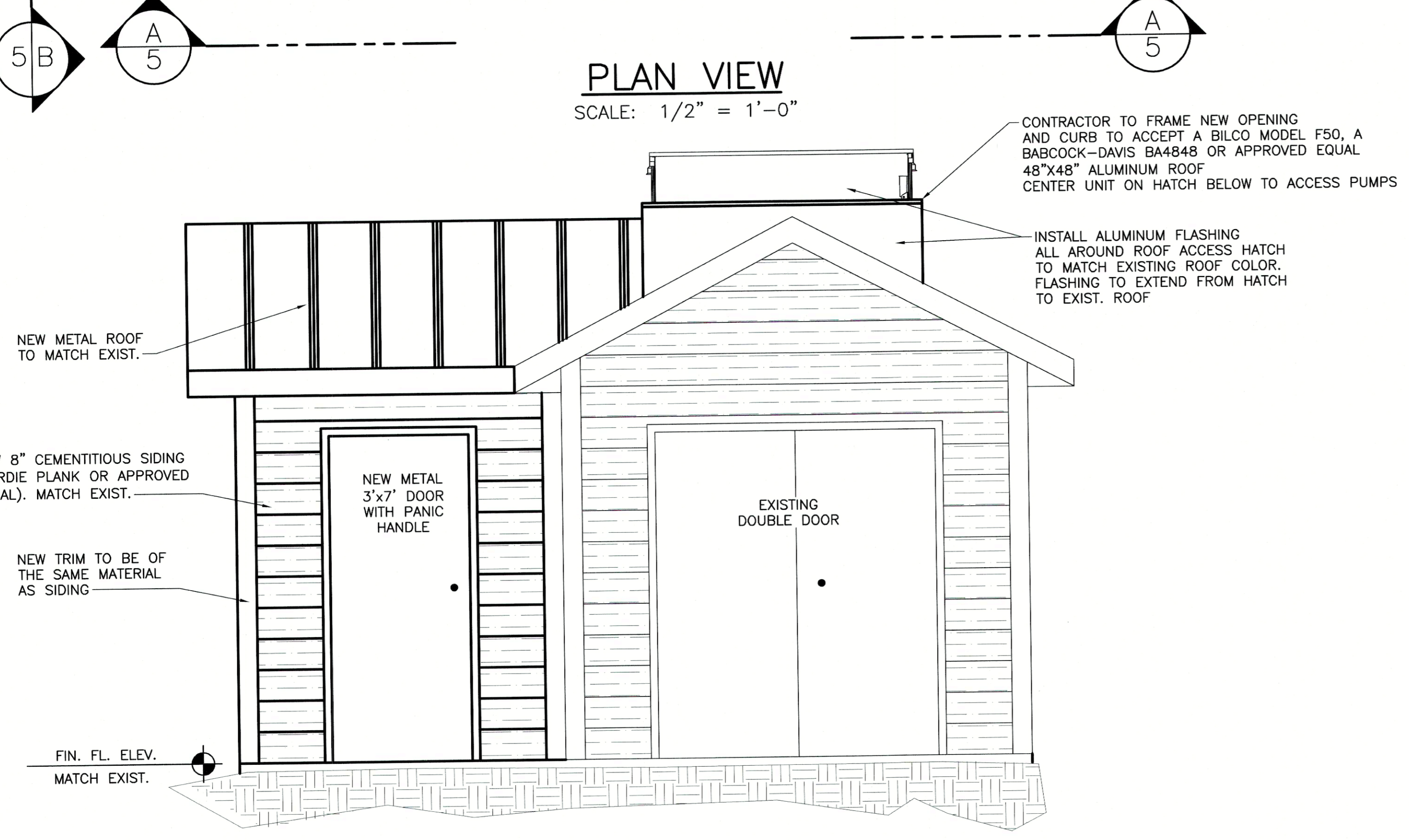
DRAWING NO.
1
 OF
7
 FILE NO.



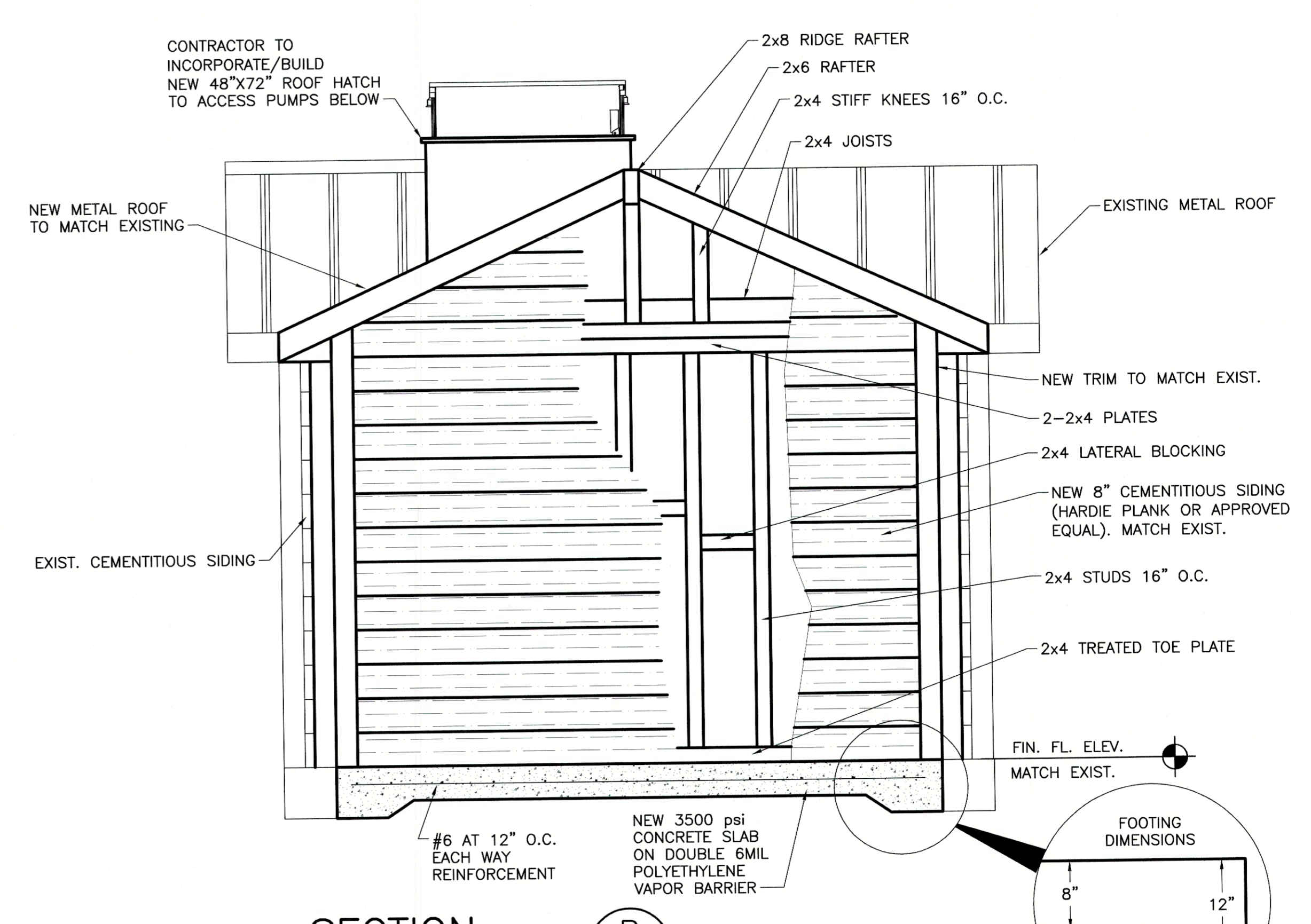
PLAN VIEW
SCALE: 1/2" = 1'-0"



ROOF HATCH FRAMING DETAIL



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



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

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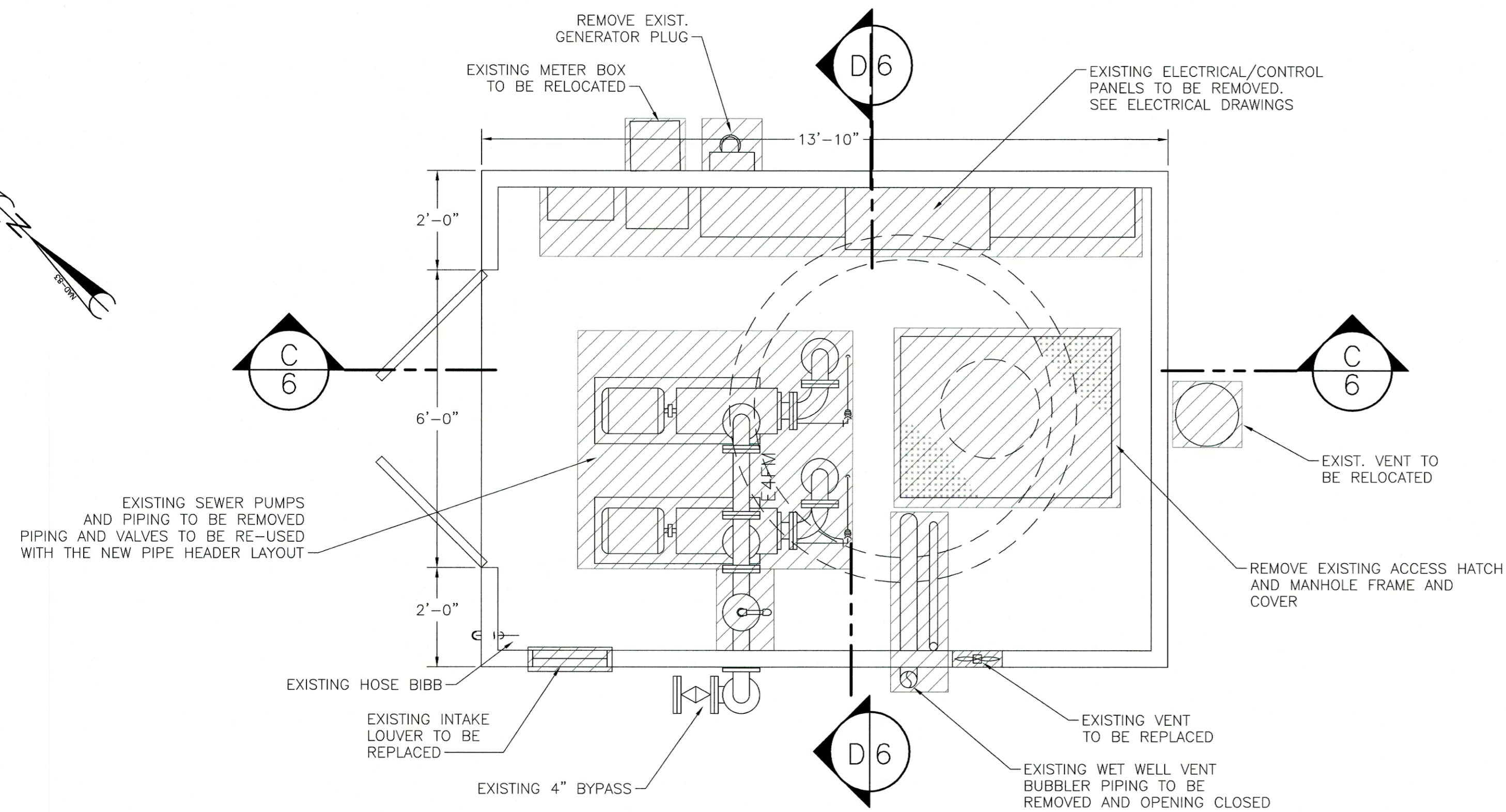
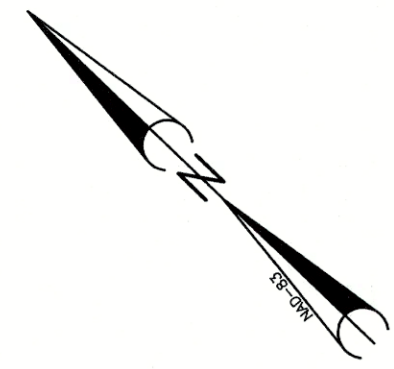
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DATE: SEPTEMBER 2021
 SCALE: AS SHOWN
 DRAWN: MAB
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 CHECKED: WHB
 JOB NO: 21-02B
 CAD FILE: PS-B
 LAYOUT: ARCH. VIEWS

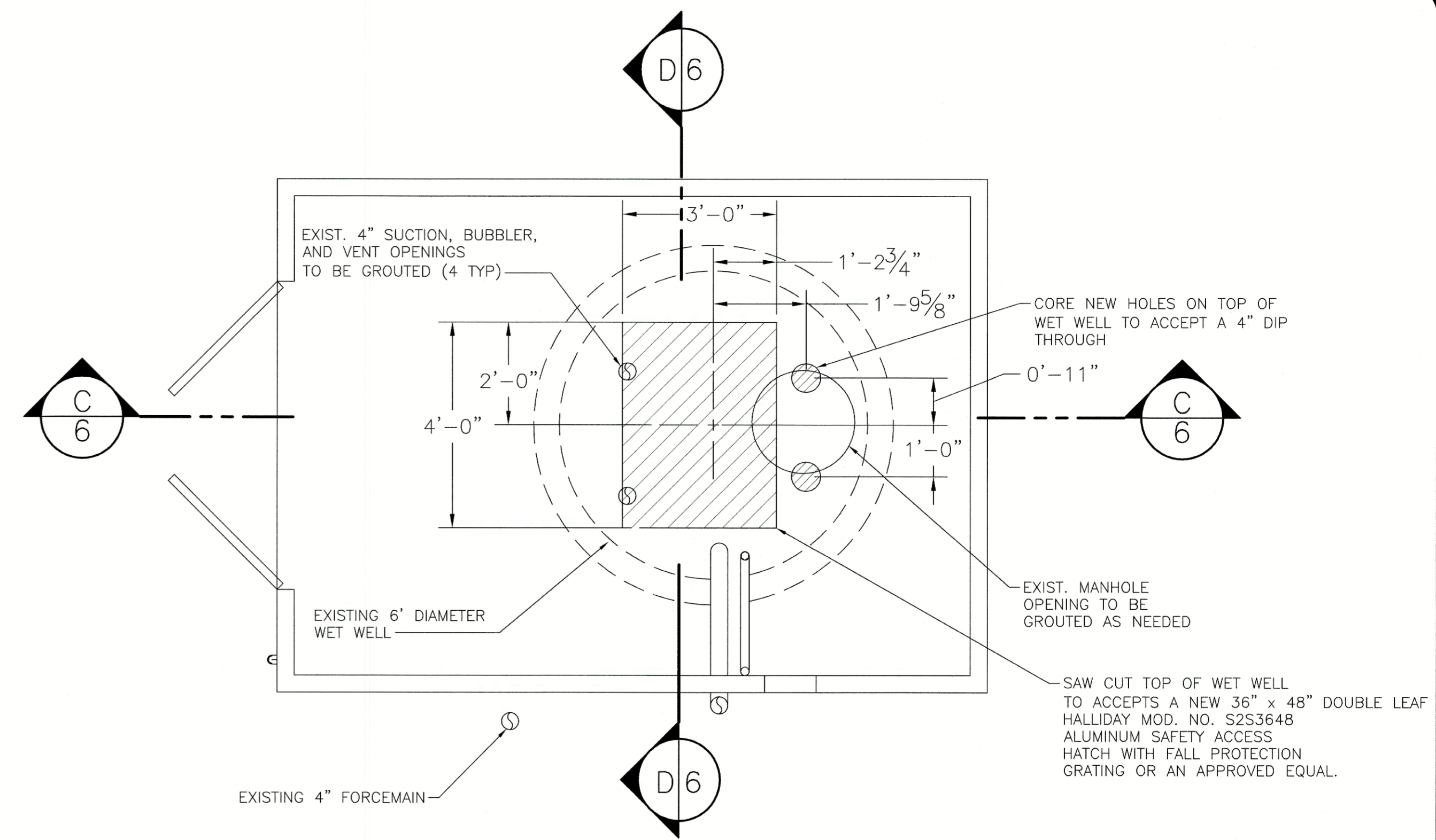
Upgrades to Pump Station "B"
 PREPARED FOR
Town of Edisto Beach
 Colleton County, South Carolina
 Pump Station "B" - Building addition - Plan & Elevation Views

DRAWING NO. **2**
 OF **7**
 FILE NO.



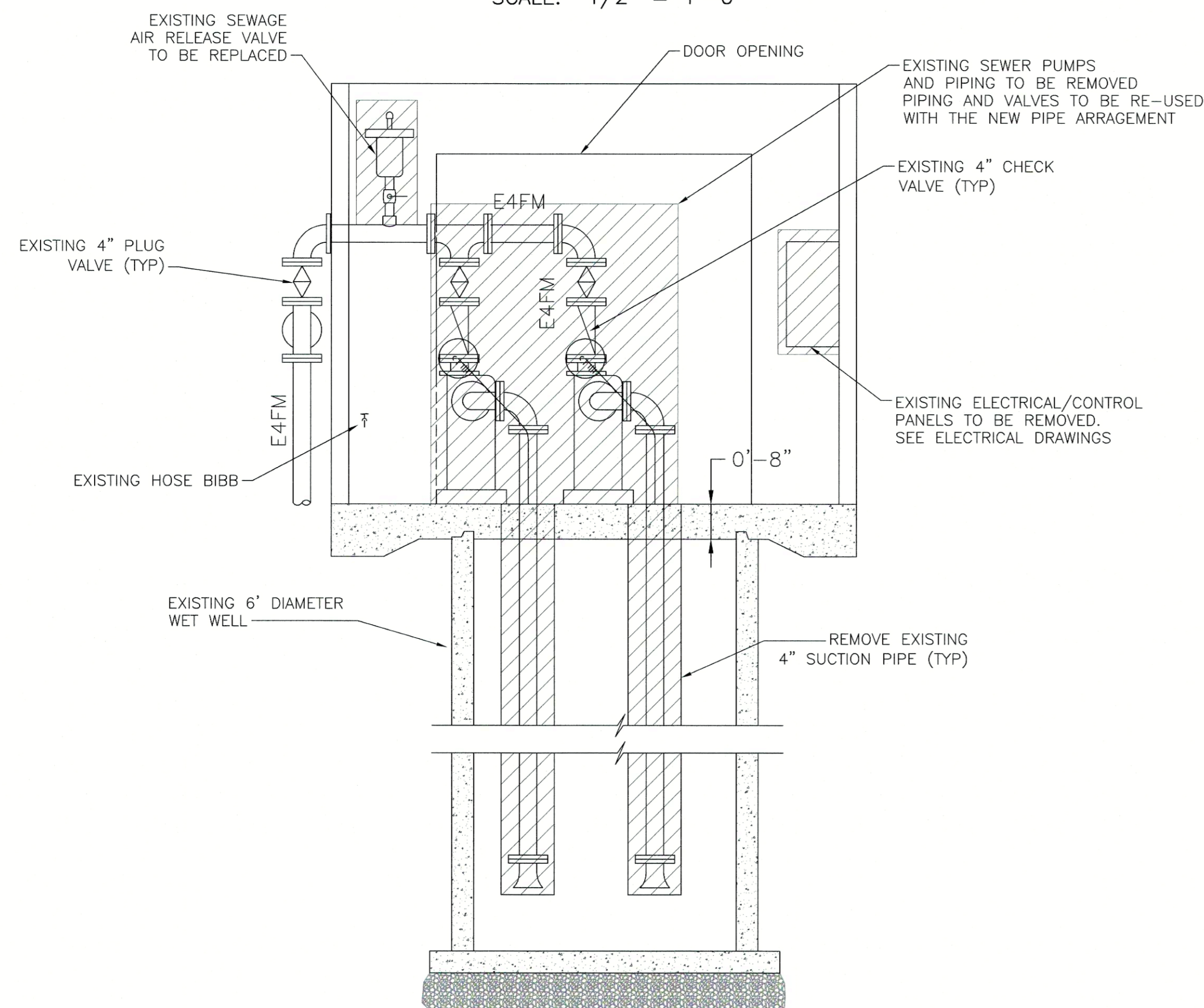
PLAN VIEW ABOVE THE PUMPS

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



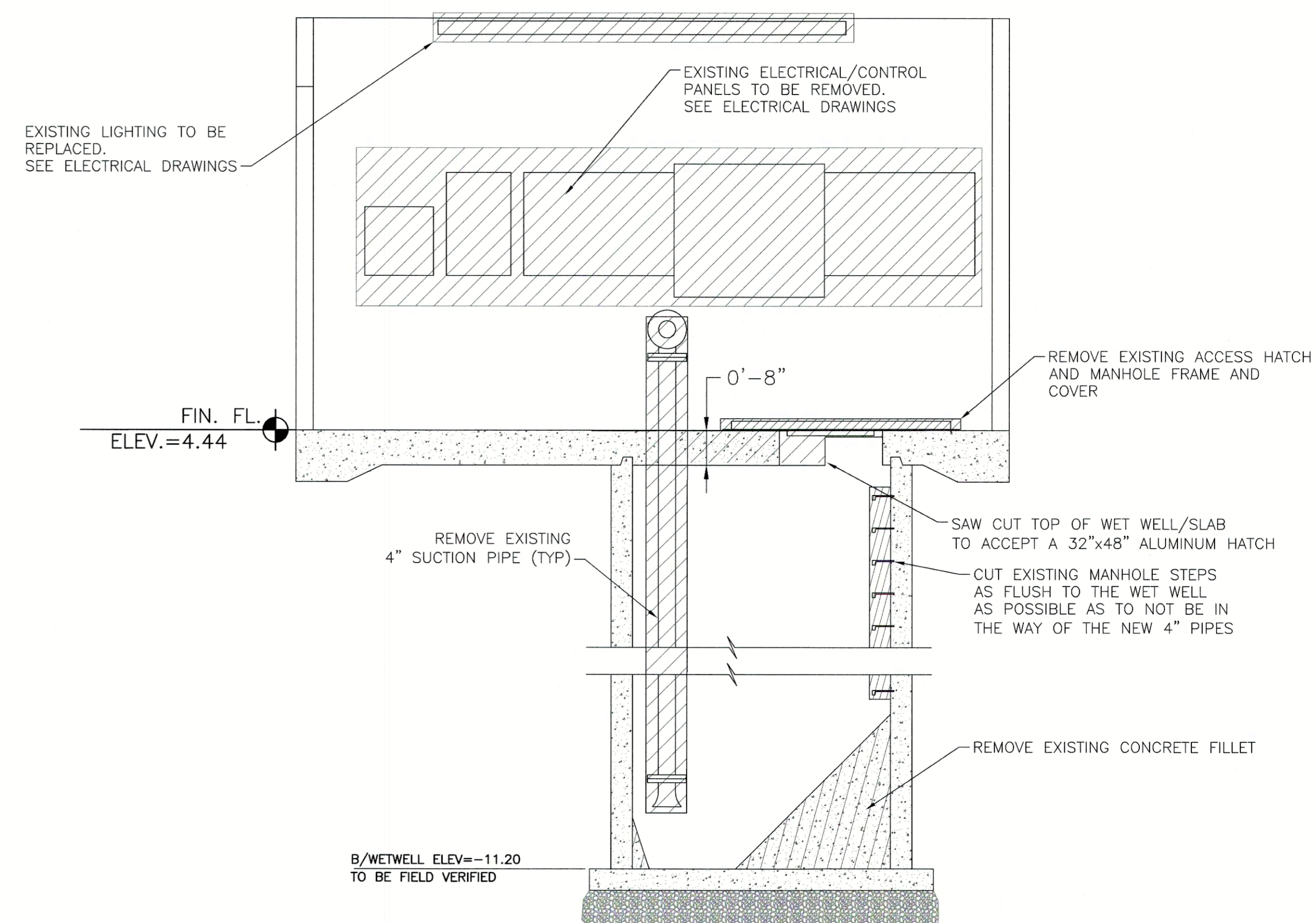
PLAN VIEW AT TOP OF THE SLAB

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



SECTION D

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



SECTION C

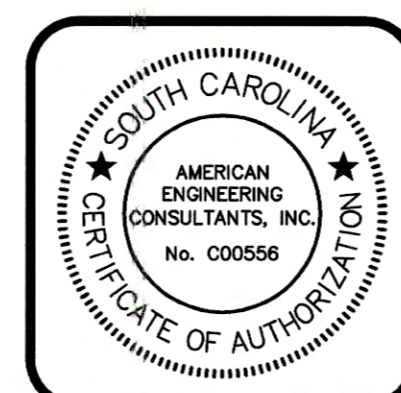
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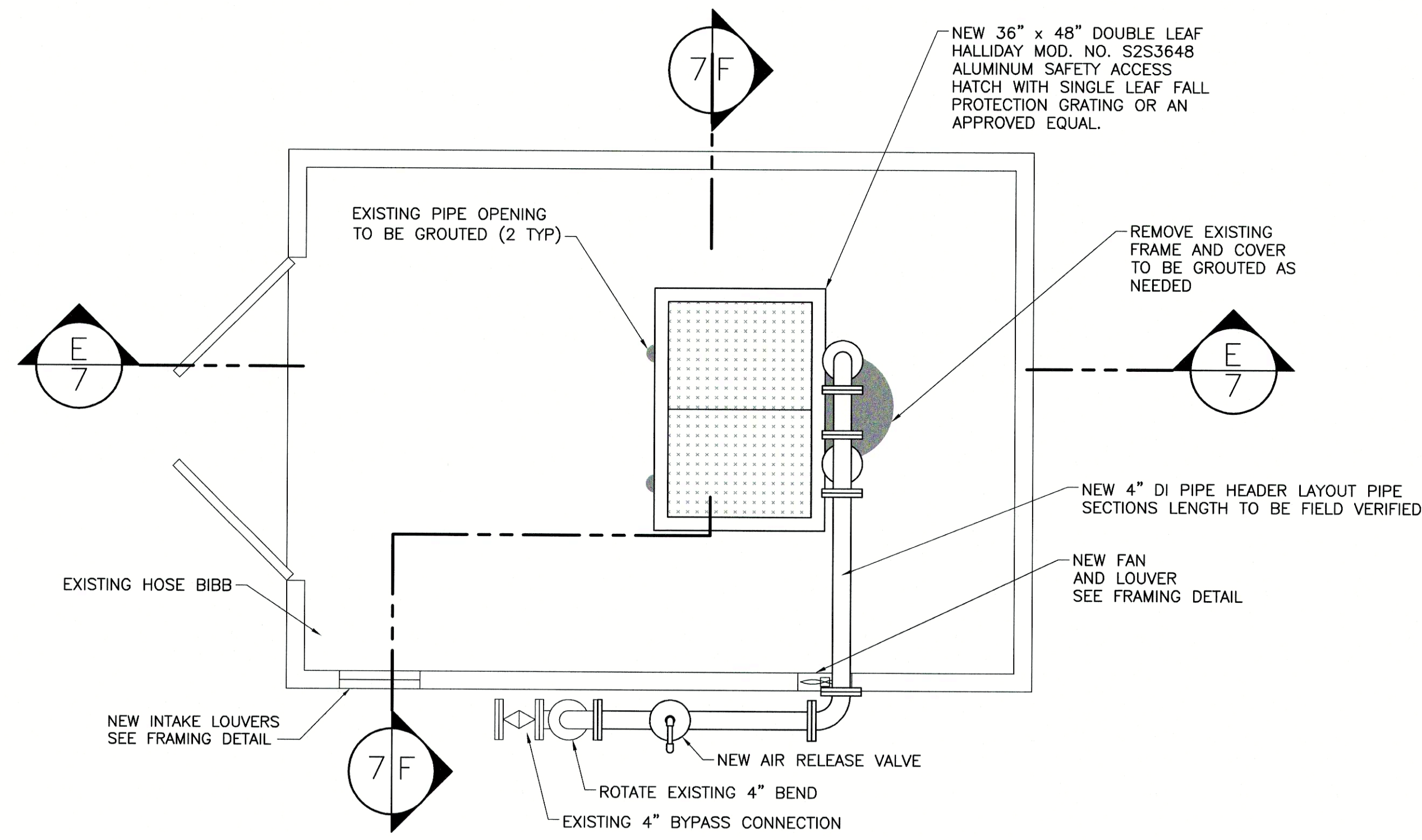
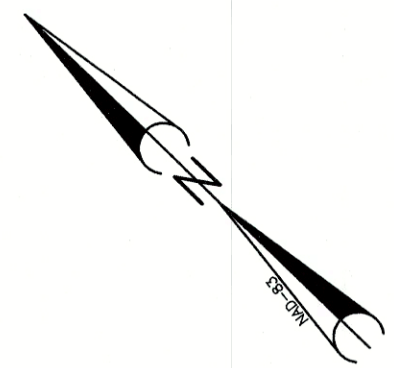
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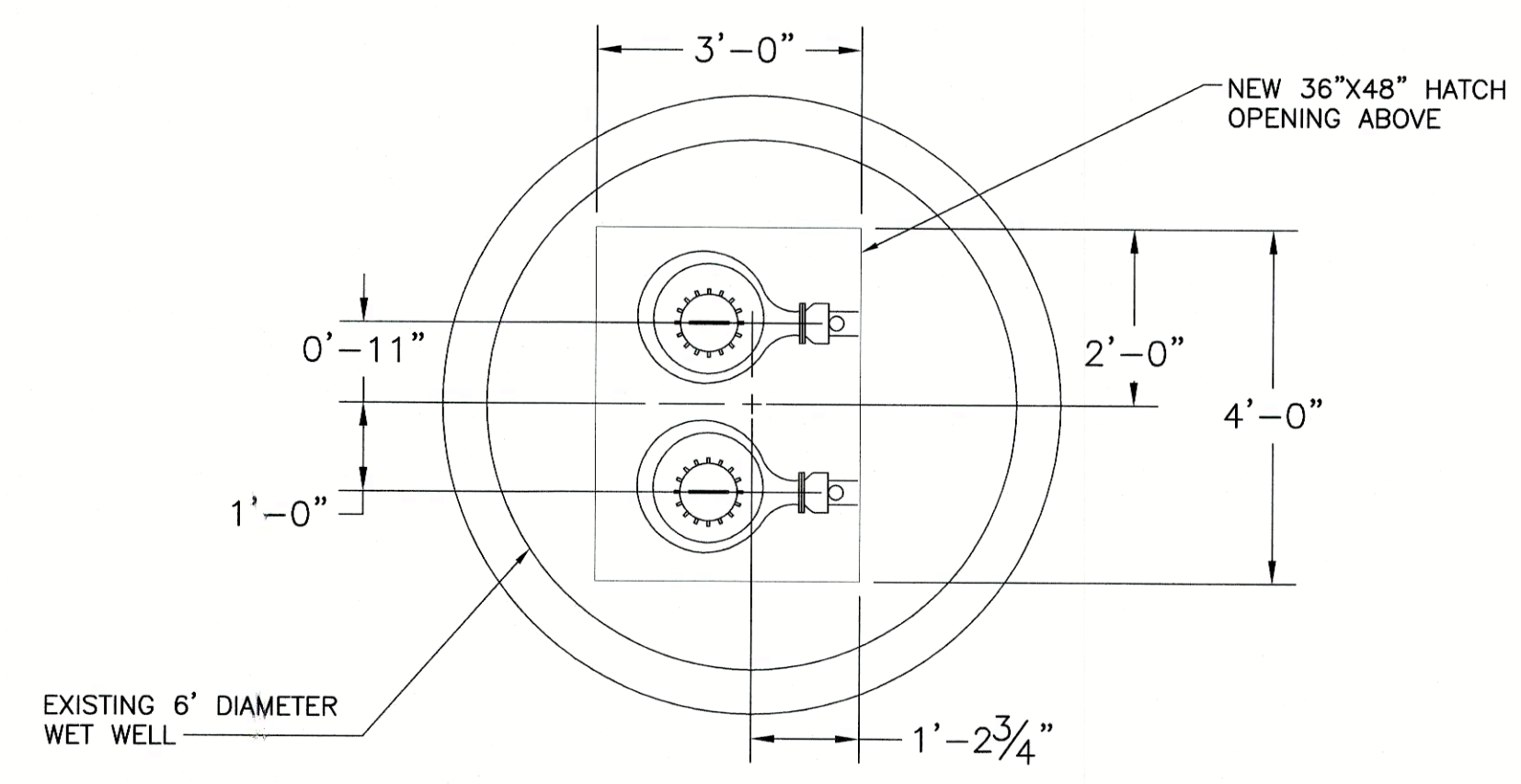
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SCALE	AS SHOWN
DRAWN	MAB
DESIGNED	BMC
CHECKED	WHB
JOB NO.	21-028
CAD FILE	PS-B
LAYOUT	EXIST COND

Upgrades to Pump Station "B"
 PREPARED FOR
Town of Edisto Beach
 Colleton County, South Carolina
 Pump Station "B" - Existing Conditions and Demolition Plan

DRAWING NO.	3
OF	7
FILE NO.	

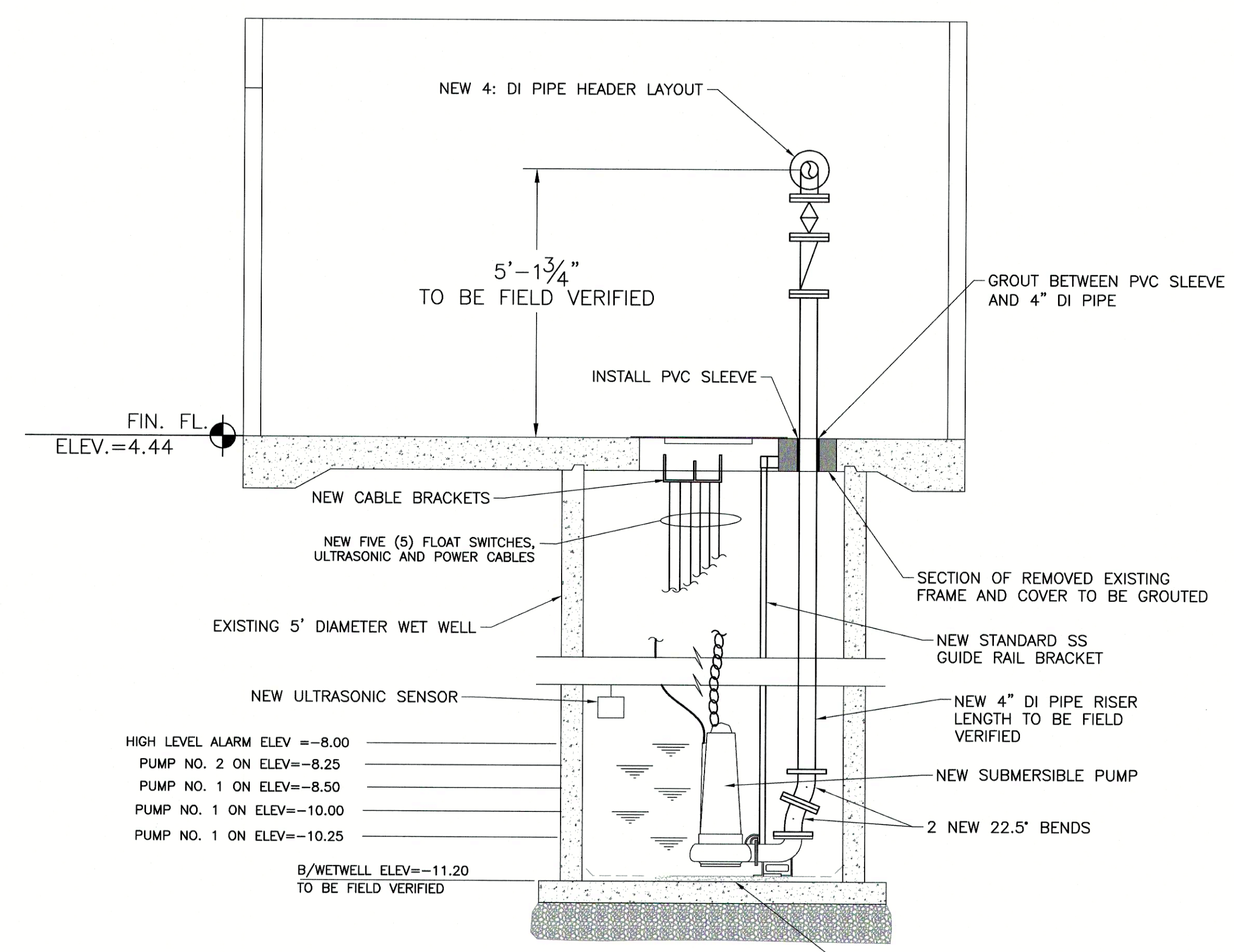


PLAN VIEW ABOVE THE PIPING
SCALE: 1/2" = 1'-0"

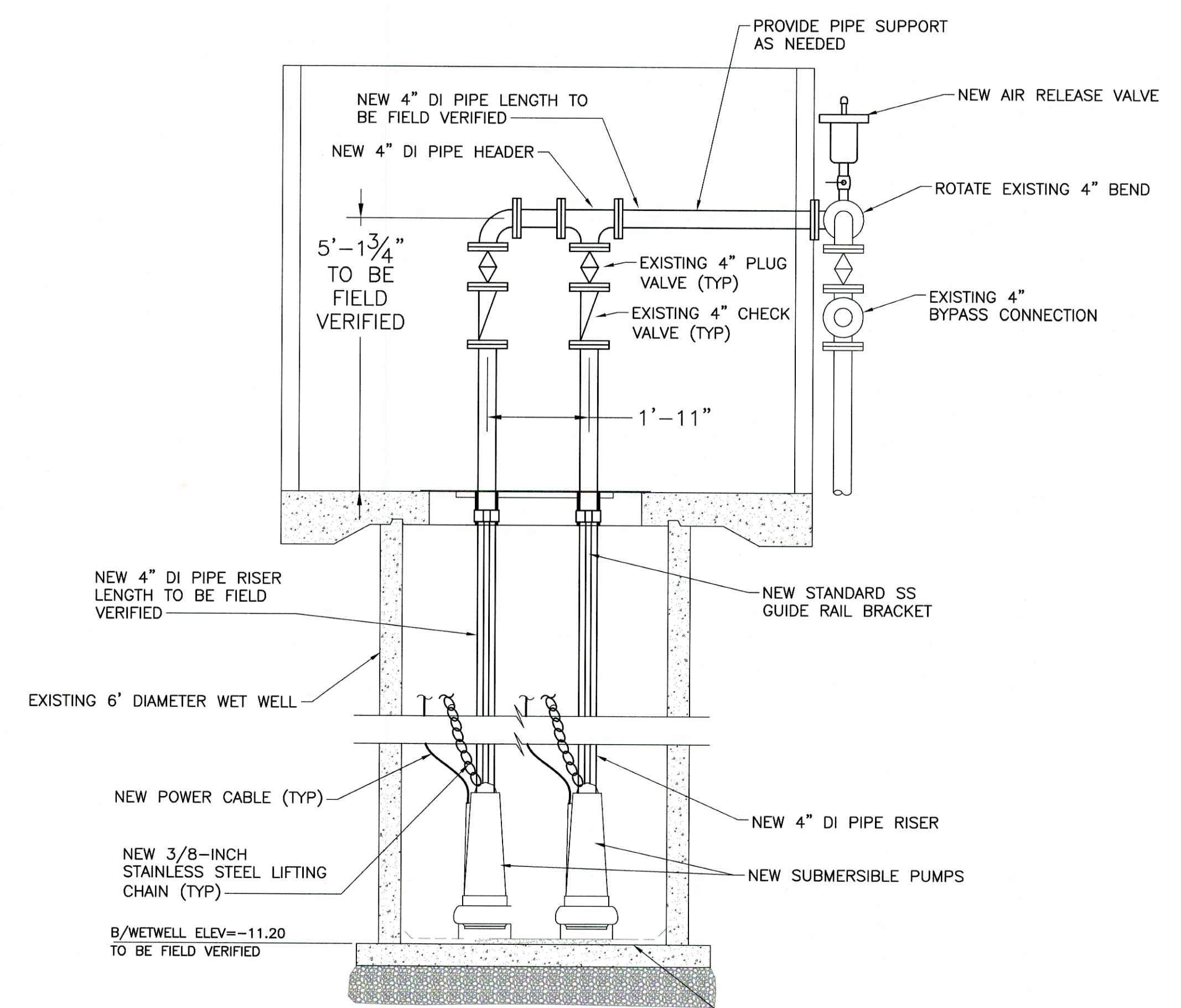


PLAN VIEW BELOW THE SLAB
SCALE: 1/2" = 1'-0"

NOTE:
ALL EXPOSED PIPING, INCLUDING NEW VENT
TO BE PAINTED. COLOR TO BE SELECTED BY OWNER



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



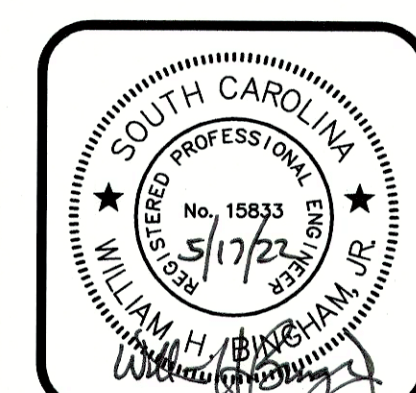
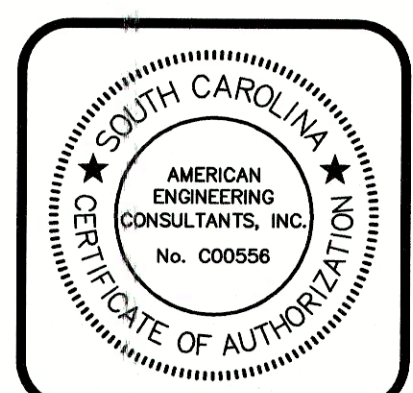
SECTION F
SCALE: 1/2" = 1'-0"

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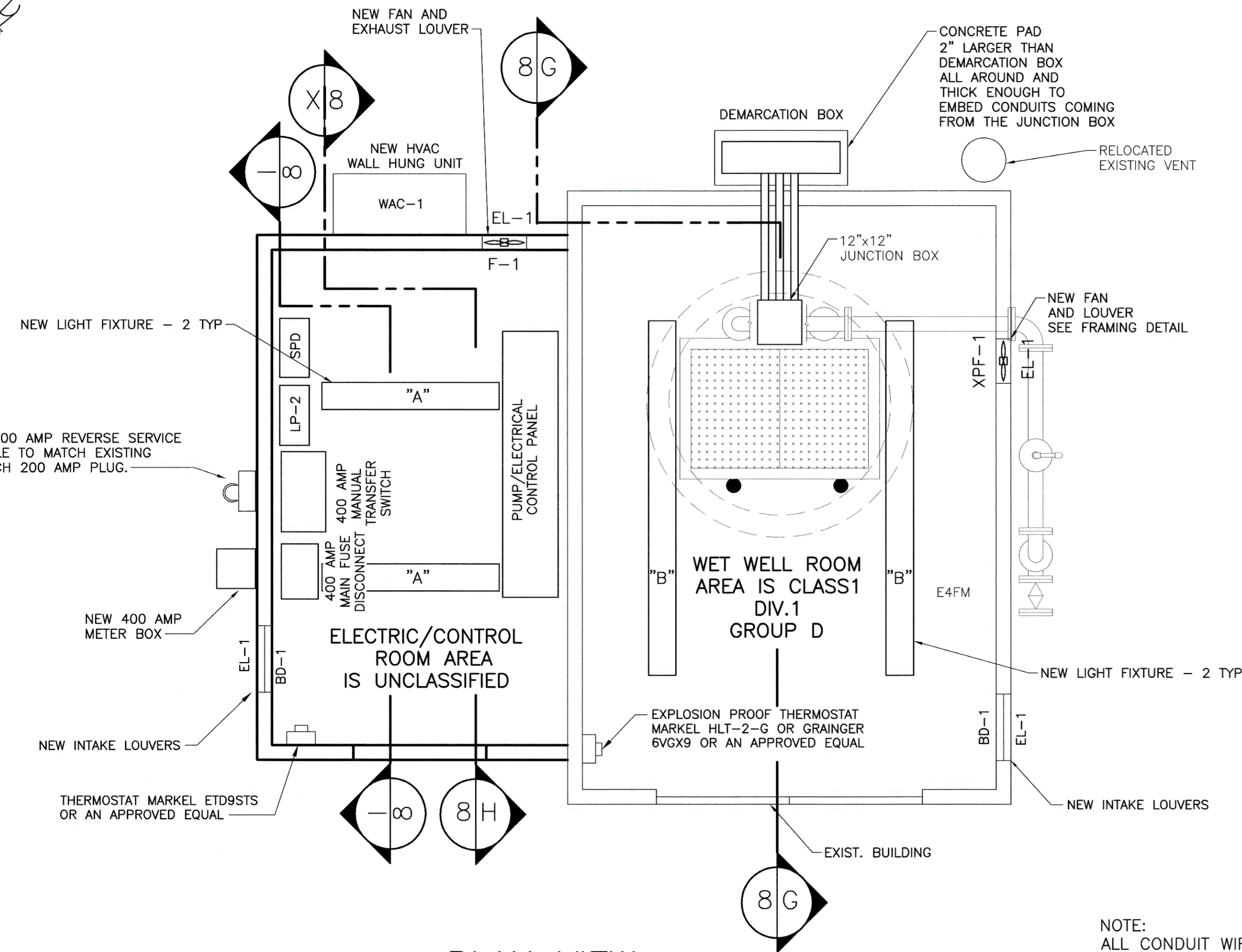
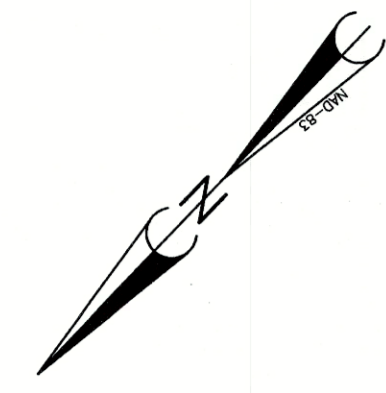
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SCALE: AS SHOWN
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DESIGNED: BMC
CHECKED: WHB
JOB NO: 21-028
CAD FILE: PS-B
LAYOUT: IMPROVEMENTS

Upgrades to Pump Station "B"
PREPARED FOR
Town of Edisto Beach
Colleton County, South Carolina
Pump Station "B" - Proposed Upgrades - Plan and Cross Section Views

DRAWING NO. **4**
OF **7**
FILE NO.

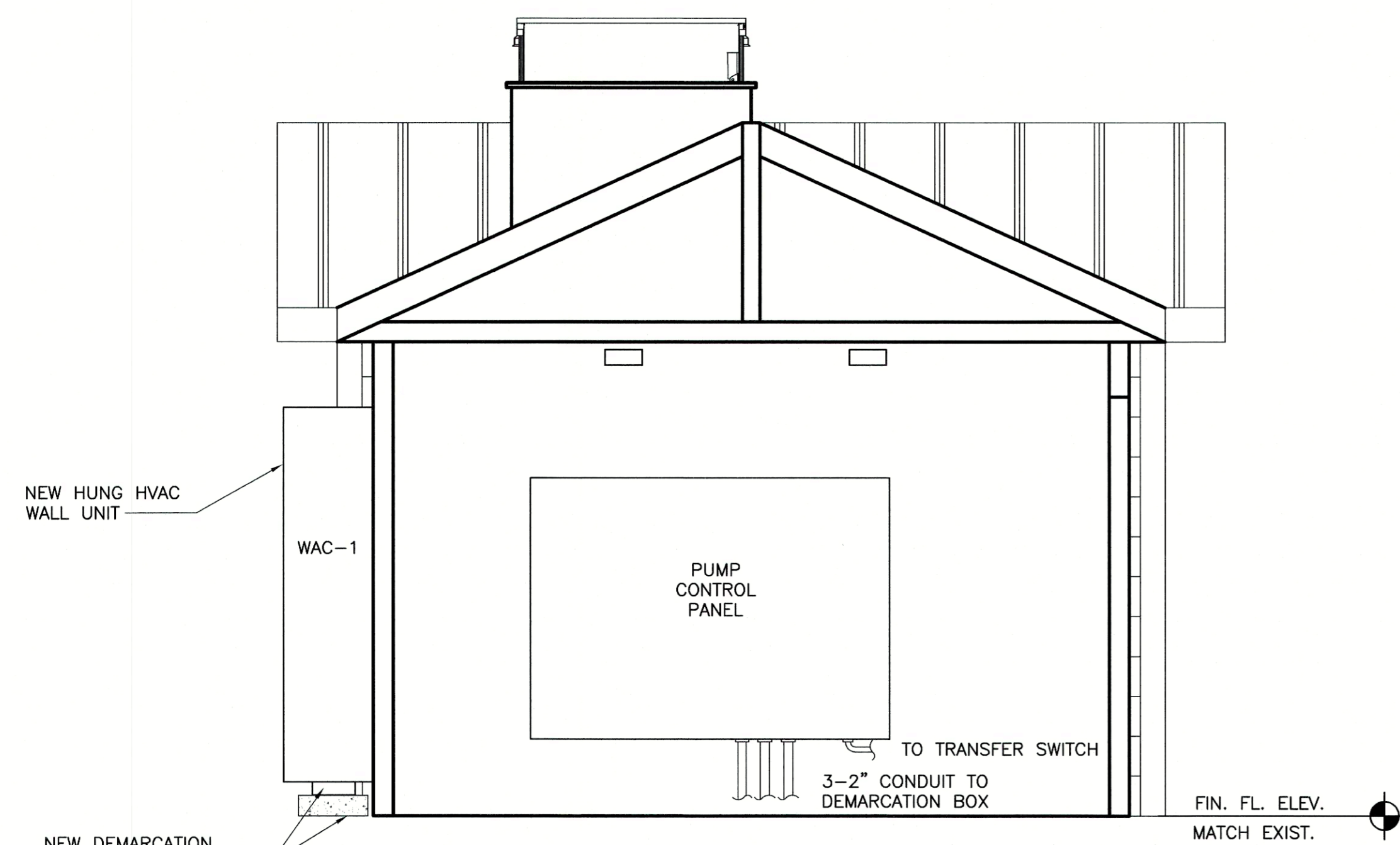


PLAN VIEW
SCALE: 1/2" = 1'-0"

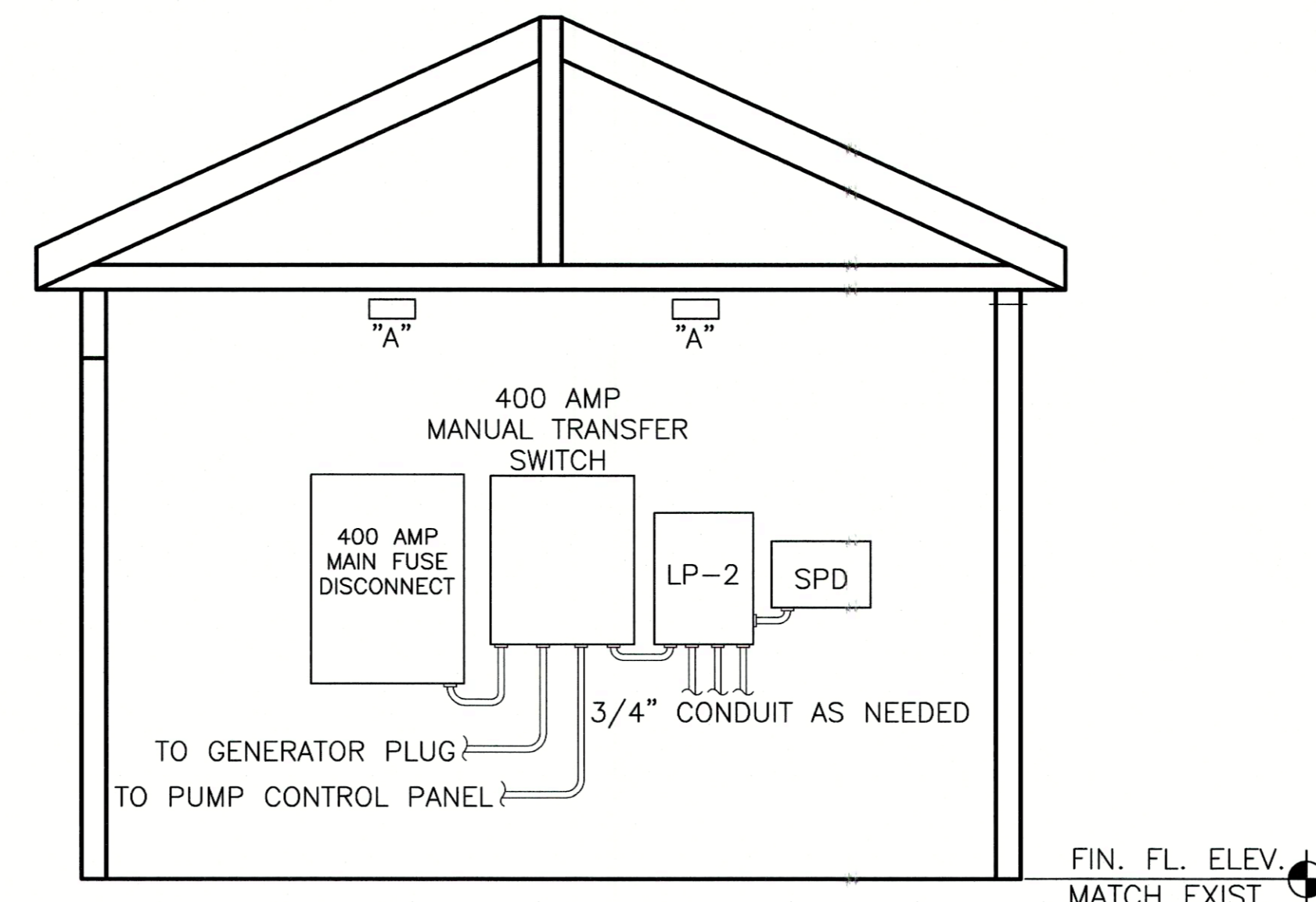
NOTE:
ALL CONDUIT WIRING INSIDE CLASSIFIED AREAS SHALL COMPLY WITH REQUIREMENTS OF NEC CLASS 1, DIV-1, GROUP C & D W/SEAL OFFS IN ALL CONDUITS

SCHEDULE - PANELBOARD		LP-2		TYPE		MAIN BREAKER	
200 AMP 10,000 AIR		120/240 v		1		PH. 3 W.	
FLUSH <input type="checkbox"/> SURFACE <input checked="" type="checkbox"/>		30		TOTAL SPACES		200% NEUTRAL	
NO.	LOAD	BREAKER AMP	POLES	LOAD VA	REMARKS		
1	SPD	40	2				
3	SPD						
5	RECEPTACLE	20	1	360			
7	RECEPTACLE	20	1	900			
9	LIGHTS	20	1	720			
11	LIGHTS	20	1	720			
13	SPARE	20	1	720			
15	SPARE	20	1	720			
17	SPARE	20	1	720			
19	SPARE	20	1	1500			
21	SPARE	20	1				
23	SPACE	20	1				
25	SPACE	20	1				
27	SPACE	20	1				
29							
2	WAC-1	30	2	7200			
4							
6	EXHAUST FAN	20	1	900			
8	SPARE	20	1	1000			
10	SPARE	20	1	550			
12	SPARE	20	1	550			
14	SPARE	20	1	1500			
16	SPARE	20	1	1500			
18	SPARE	20	1	1500			
20	SPARE	20	1	500			
22	SPARE	20	1	500			
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28	SPACE	-	1	-			
30	SPACE	-	1	-			

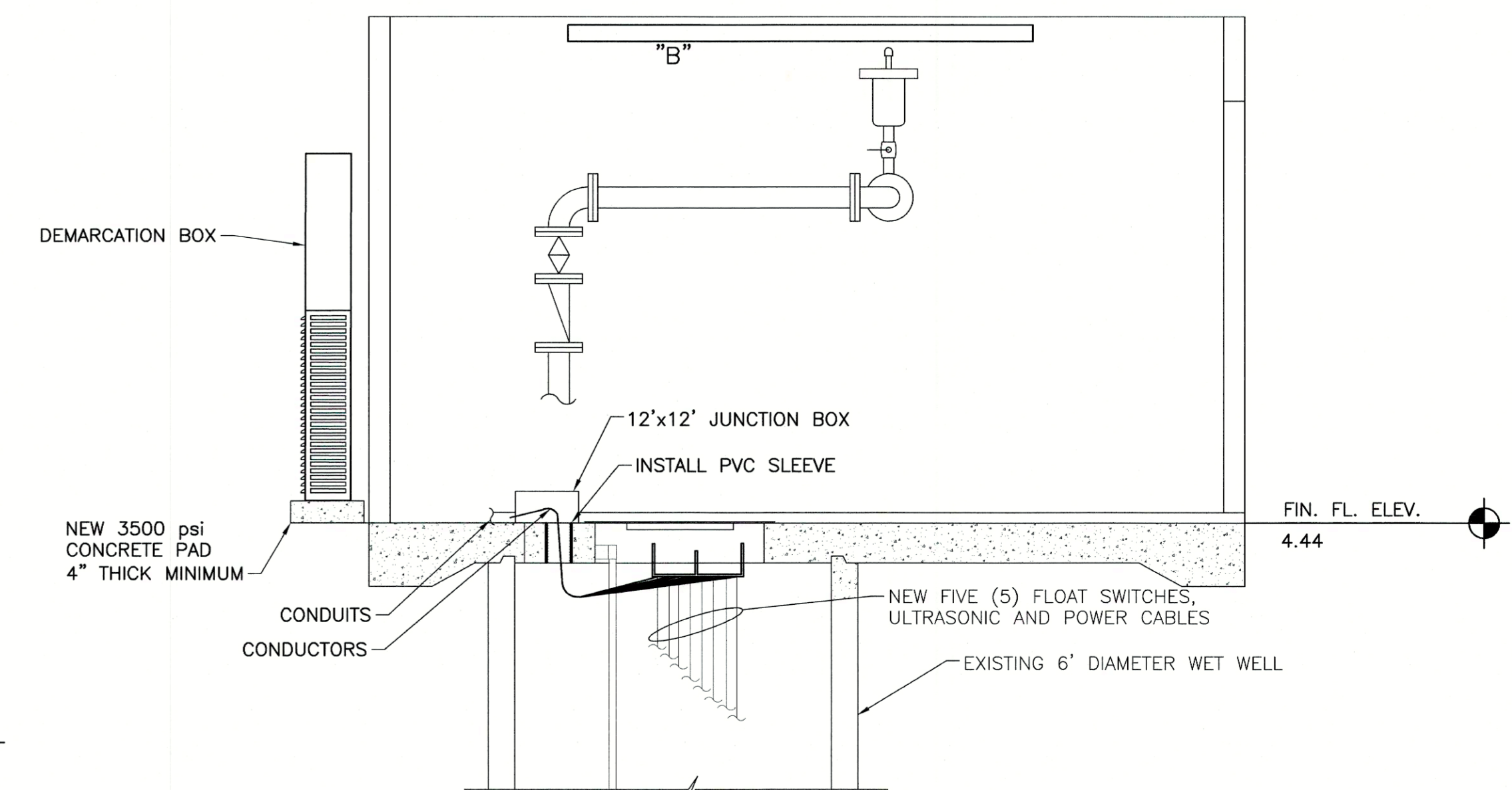
PANEL LP-2



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



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



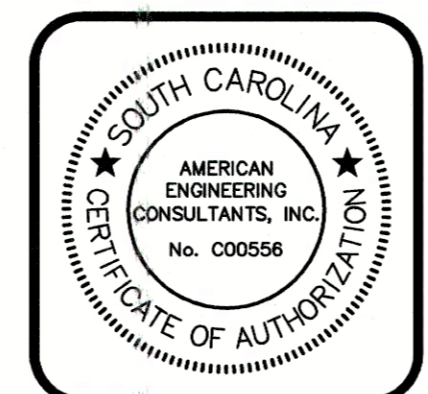
SECTION G
SCALE: 1/2" = 1'-0"

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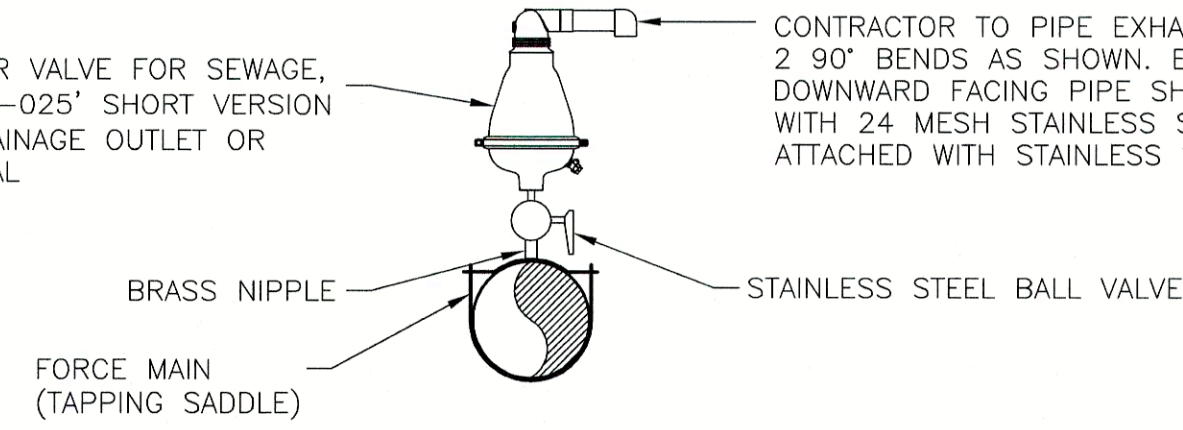


DATE	SEPTEMBER 2021
SCALE	AS SHOWN
DRAWN	MAB
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CAD FILE	PS-B
LAYOUT	ELECT VIEWS

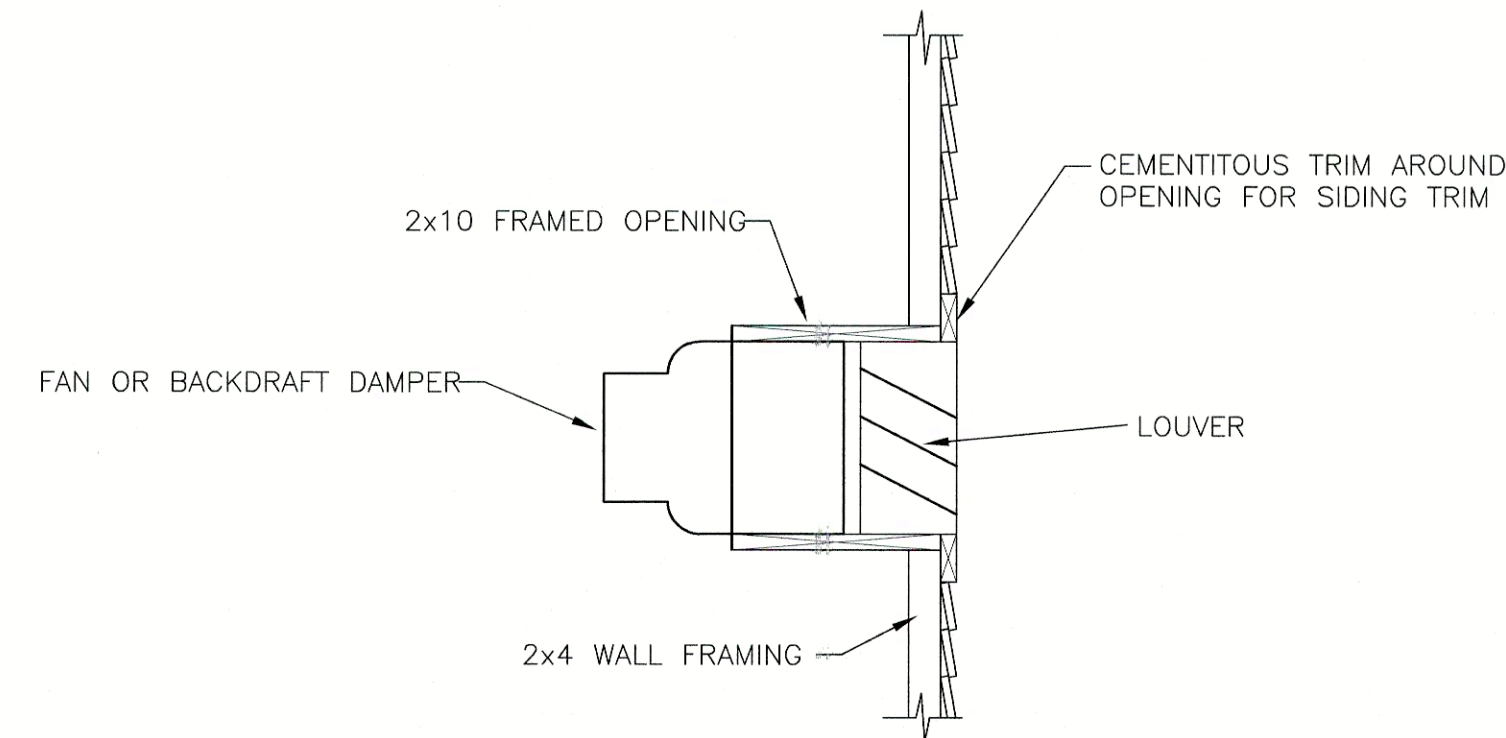
Upgrades to Pump Station "B"
PREPARED FOR
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Colleton County, South Carolina
Pump Station "B" - Electrical - Plan & Cross Section Views

DRAWING NO.
5
OF
7
FILE NO.

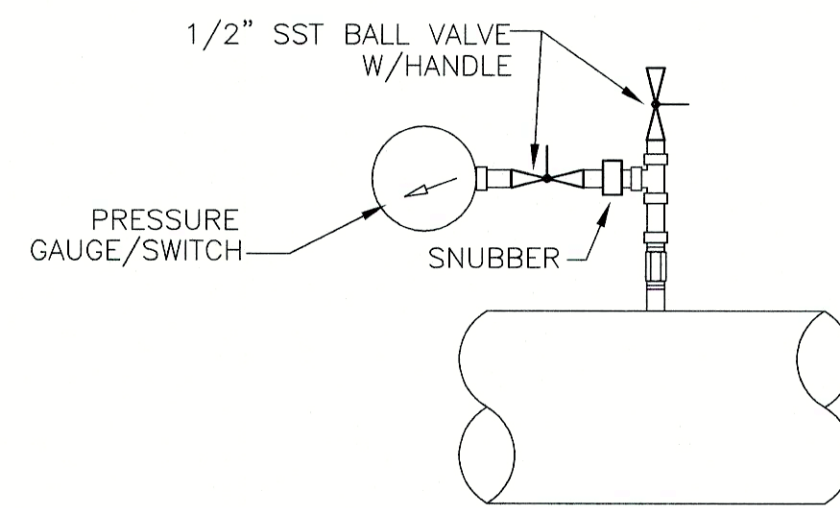
COMBINATION AIR VALVE FOR SEWAGE, A.R.I. MODEL 'D-025' SHORT VERSION W/ 1 1/2" DRAINAGE OUTLET OR APPROVED EQUAL



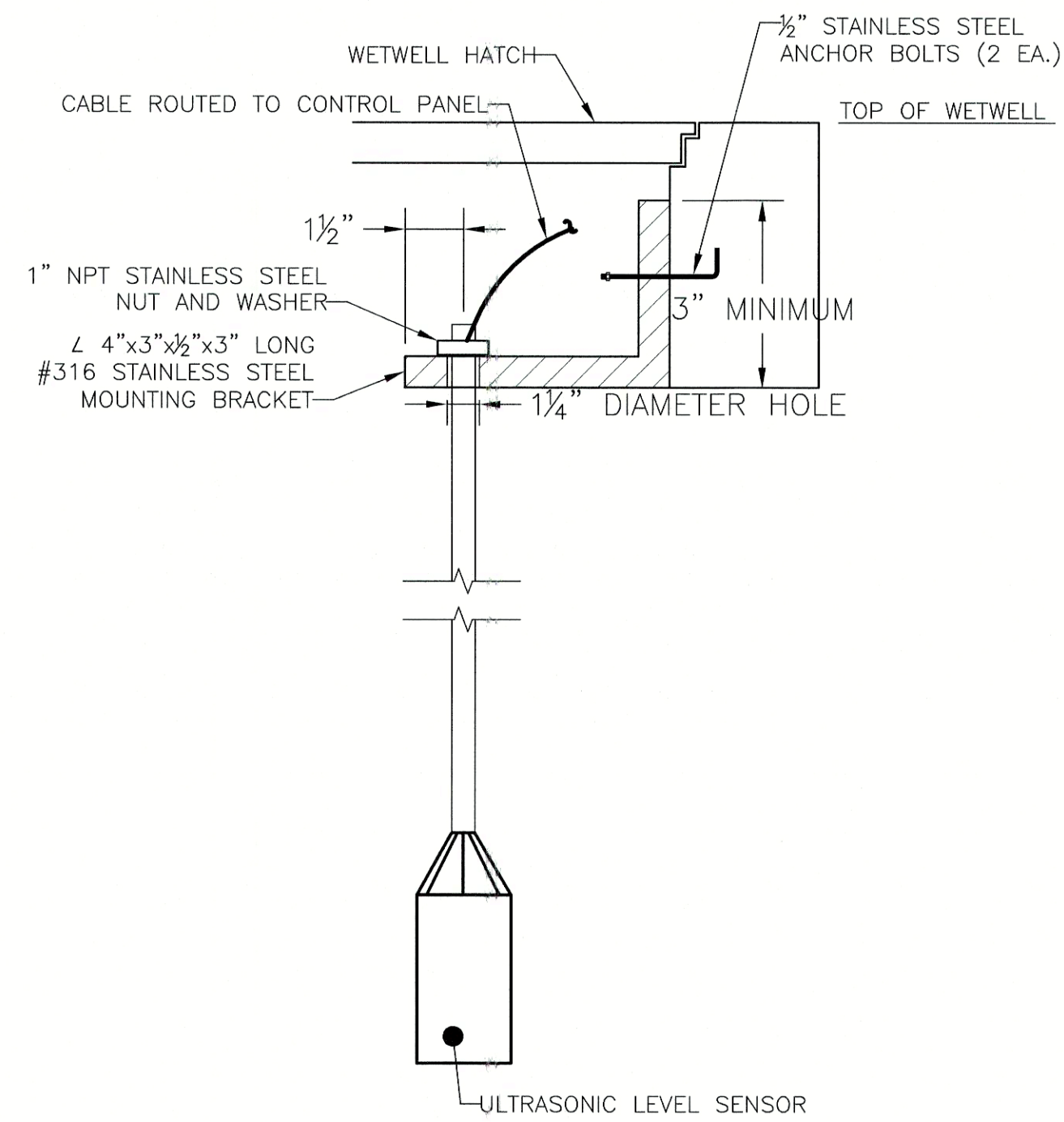
FORCE MAIN AIR RELEASE VALVE MANHOLE
NOT TO SCALE



FAN/LOUVER FRAMING DETAIL
NOT TO SCALE

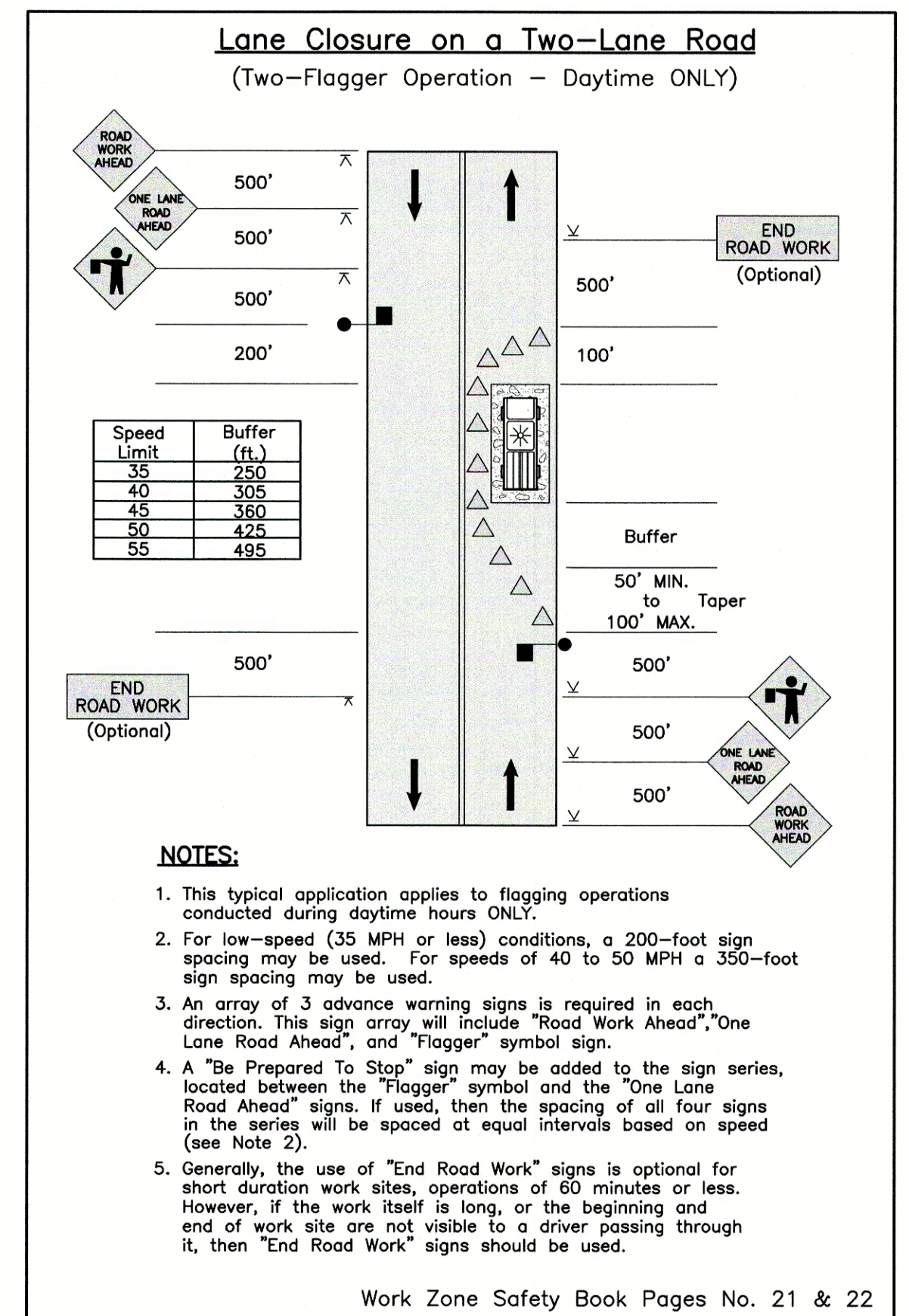


PRESSURE GAUGE/SWITCH
TYP. INSTALLATION DETAIL
NOT TO SCALE



NOTE:
LOCATE PER MANUFACTURER'S RECOMMENDATIONS TO AVOID INTERFERENCE FROM PUMPS, WALL ETC. IN THE WETWELL.

SENSOR MOUNTING PLATE
NOT TO SCALE

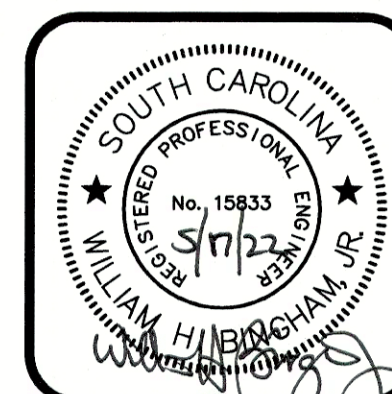
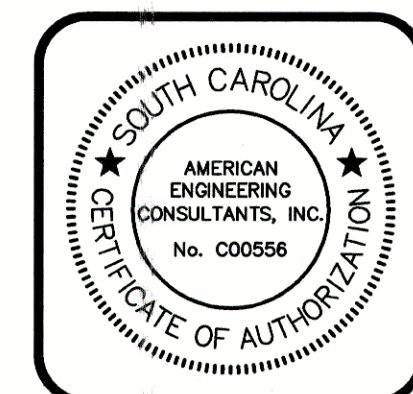


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DATE SEPTEMBER 2021

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DRAWN	MAB
DESIGNED	BMC
CHECKED	WHB
JOB NO.	21-028
CAD FILE	MISC DETAILS
LAYOUT	DETAILS

Upgrades to Pump Station "B"
PREPARED FOR
Town of Edisto Beach
Colleton County, South Carolina
Pump Station "B" - Miscellaneous Details

DRAWING NO. 6
OF 7
FILE NO.

VENTILATING EQUIPMENT SCHEDULE

SYMBOL	MFGR.	MODEL NO.	FAN			MOTOR			CAPACITY		SPACES SERVED	TYPE FAN	CONTROLS	MATERIAL	REMARKS	
			TYPE	DIA.	RPM	MAX. SONES	NO. OF SPEEDS	HP OR AMPS	VOLTAGE CHAR.	CFM						S.P. (IN)
XPF-1	CANARM	AX-20-4	PROP	20"	1725	18	1	1/3 HP	115-1-60	3140	0.25	PS-B	SIDEWALL PROP	THERMOSTAT	ALUMINUM	1, 2, 3, 4, 5, 6
F-1	CANARM	AX-20-4	PROP	20"	1725	18	1	1/3 HP	115-1-60	3140	0.25	PS-B	SIDEWALL PROP	THERMOSTAT	ALUMINUM	1, 2, 3, 4, 5, 6
EL-1	CANARM	EL4-24X24	-	-	-	-	-	-	-	-	-	PS-B	FIXED LOUVER	-	ALUMINUM	24" X 24", 6
BD-1	CANARM	SR124X24	-	-	-	-	-	-	-	-	-	PS-B	BACKDRAFT DAMPER	-	ALUMINUM	24" X 24", 6

- FURNISH WITH DISCONNECT.
- FURNISH WITH INTEGRAL SHUTTER.
- FURNISH WITH EXPLOSION PROOF MOTOR.
- FURNISH WITH CLASS 1 DIV 1 WALL SWITCH LARSEN EPS-25A OR EQUAL.
- FURNISH WITH MARKEL HLT-2-G THERMOSTAT FOR CLASS 1 DIV 1 OR EQUAL.
- EQUAL PRODUCTS BY MARVAIR OR OTHER MANUFACTURERS WILL BE ACCEPTED.

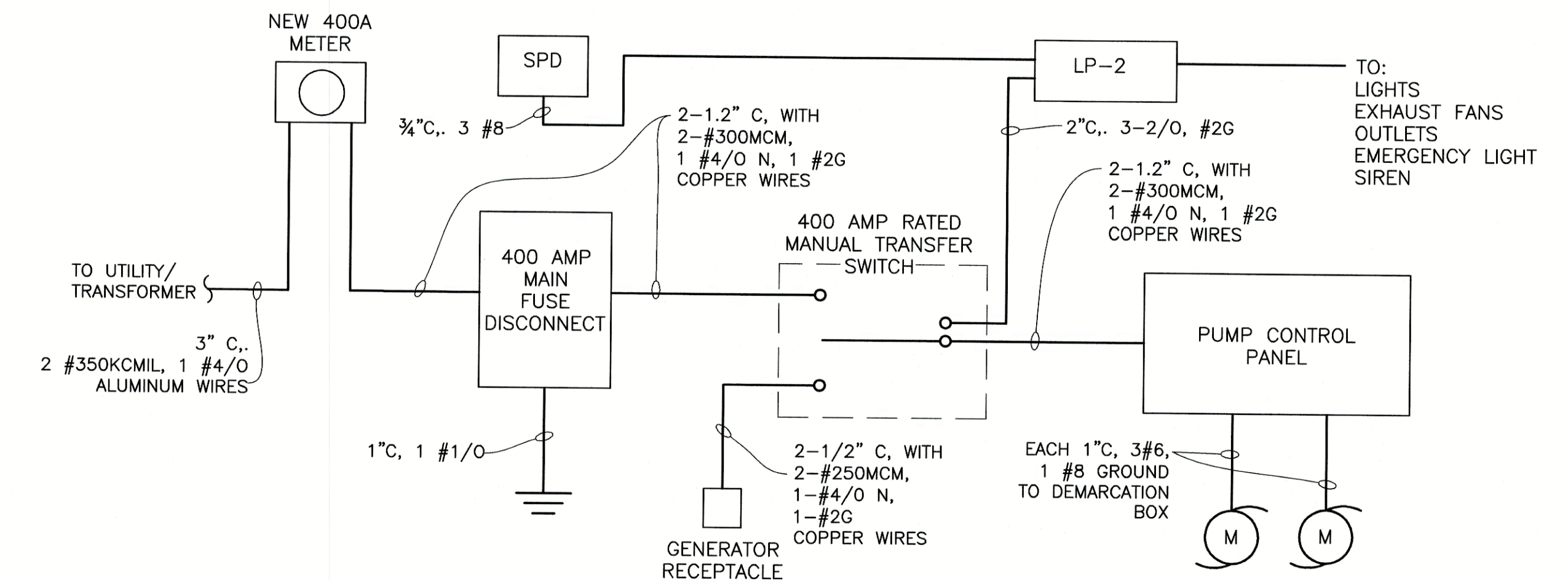
WALL AIR CONDITIONER SCHEDULE

SYMBOL	MFGR.	MODEL NO.	INDOOR FAN			UNIT VOLTAGE CHAR.	MCA (AMPS)/MaxFS (AMPS)	TOTAL COOLING @95°F O.A. M.B.H.	AIR TEMP. ENTERING EVAP. DB/WB(°F)	UNIT EER/ MIN EER PER ASHRAE 90.1	REFRIG.	ELECTRIC HEATING		MIN. OUTDOOR AIR-CFM	WEIGHT (LBS)	REMARKS
			C.F.M.	ESP (IN)	NO. OF SPEEDS							HEATER MBH	HEATER KW			
WAC-1	BARD	W18AB-A05YXS5F	600	0.1	1	230-1-60	30/30	18	80/67	11.3/10.7	R-410A	17.0	5.0	0	370	1, 2, 3, 4, 5, 6, 7, 8

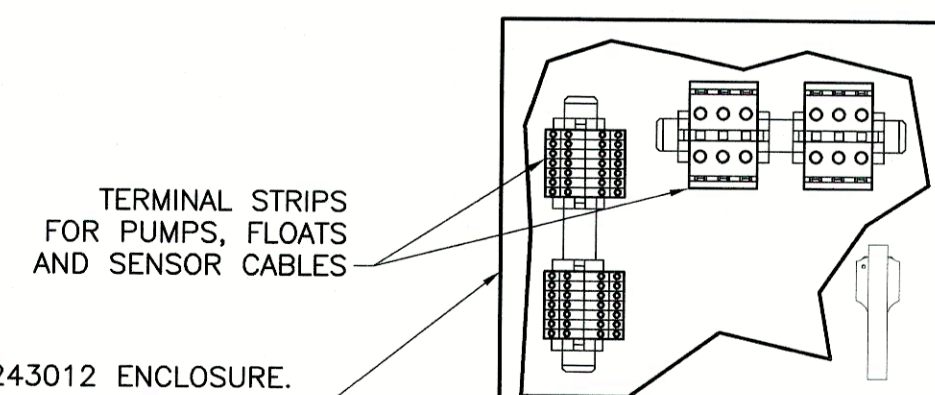
- FURNISH WITH CIRCUIT BREAKER DISCONNECT.
- FURNISH WITH LOW AMBIENT COOLING OPERATION CONTROL AND FILTER PRESSURE SWITCH.
- FURNISH WITH FULL FLOW TEMPERATURE CONTROLLED ECONOMIZER.
- PROVIDE WITH STAINLESS STEEL CONSTRUCTION.
- PROVIDE WITH SPECIAL PROTECTIVE COATING ON EVAPORATOR AND CONDENSER COILS AND INSIDE/OUTSIDE OF UNIT.
- FURNISH WITH SIDEWALL SUPPLY AND RETURN GRILLE.
- FURNISH WITH MANUAL FRESH AIR DAMPER AND DISPOSABLE FILTER.
- EQUAL PRODUCTS BY MARVAIR OR OTHER MANUFACTURERS WILL BE ACCEPTED.

FIXTURE SCHEDULE

SYMBOL	MFGR.	MODEL NO.	VOLTAGE	SPACES SERVED	TYPE	CONTROLS	MATERIAL	REMARKS
A	LITHONIA	CSVT-L48-6000LM-MVOLT-40K-80CRI-STSL	115-1-60	PS-B	LED	SWITCH	POLYCARBONATE	6000 LUMENS - 4000K COLOR
B	LARSON ELECTRONICS	EPL-LP-48-LED LOW PROFILE	115-1-60	PS-B	LED	SWITCH	CAST ALUMINUM	EXPLOSION PROOF - 10,800 LUMENS - 4000K COLOR - 80W
SPD	SIEMENS	TPS-3A-11-2002	120/240-1	PS-B	TYPE 2 SPD	-	POLYCARBONATE	200KA/PHASE - NEMA 4X ENCLOSURE



PUMP STATION "B" ELECTRICAL DIAGRAM
NOT TO SCALE



SCHAEFER SPN44L-243012 ENCLOSURE, NEMA 4X ALUMINUM, 3-PT. BOX SHALL BE MOUNTED SO THAT DOORS FACE AWAY FROM WET WELL.

SCHAEFER SPN12AL-363012-215 PEDESTAL, NEMA 12 ALUMINUM WITH LOUVERS.

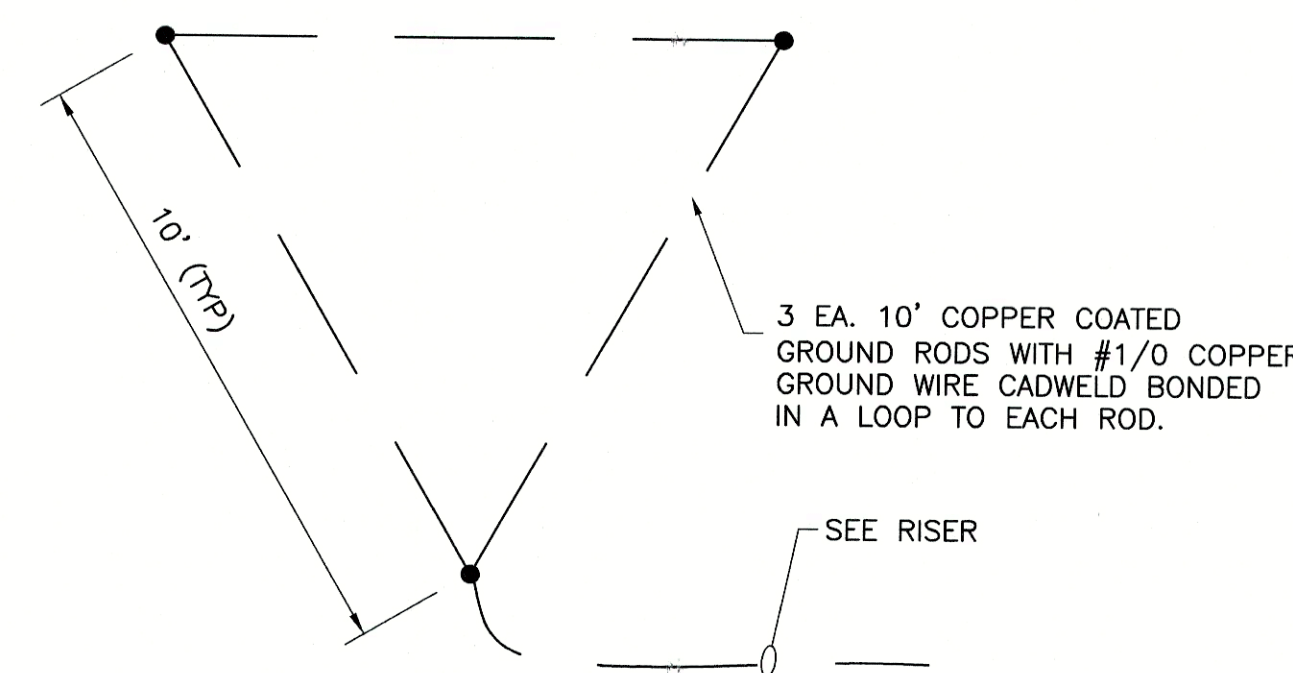
CONDUIT FROM THE WET WELL IS TO BE STUBBED UP 3" FROM BASE AND WIRE IS TO RUN IN THE OPEN AIR TO LIQUID-TIGHT CORD CONNECTORS AT THE BOTTOM OF THE DEMARCATION BOX.

2" C TO PUMP CONTROL PANEL - FLOATS AND SENSOR CABLES
 2" C TO PUMP CONTROL PANEL - PUMP #1 POWER
 2" C TO PUMP CONTROL PANEL - PUMP #2 POWER

NOTES:

ONLY ONE PULLING 90 DEGREE ELL AT THE BASE OF THE DEMARCATION BOX IS ALLOWED. CONDUIT SIZE & NUMBER AS REQUIRED.

DEMARCATION BOX DETAILS
NOT TO SCALE



GROUND FIELD DETAIL
NOT TO SCALE

GENERAL ELECTRICAL NOTES:

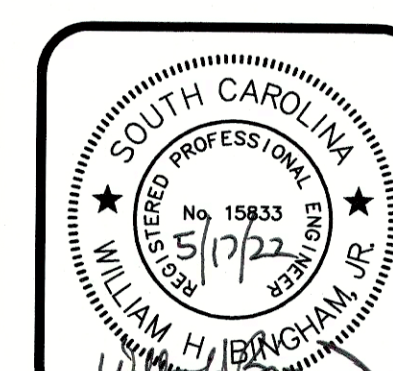
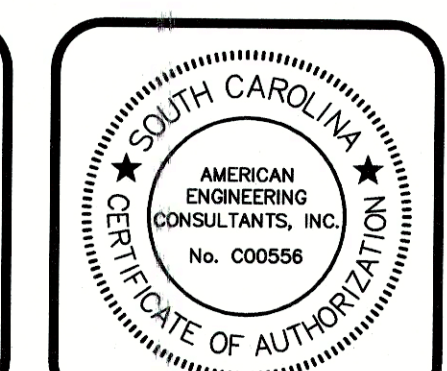
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE NATIONAL ELECTRIC CODE AND ALL OTHER APPLICABLE CODES.
- ALL WIRING SHALL BE IN CONDUIT.
- VERIFY ALL MECHANICAL AND CONTROL EQUIPMENT CONNECTIONS WITH MANUFACTURERS DRAWINGS.
- EQUIPMENT LOCATIONS SHOWN ARE APPROXIMATE AND CONDUIT RUNS SHOWN ARE DIAGRAMMATIC. CONTRACTOR SHOULD VERIFY ALL CONNECTIONS, OFFSETS, LOCATIONS, DISTANCES, ETC. IN THE FIELD AND INSTALL THE ELECTRICAL SYSTEM COMPLETE, AS SHOWN AND SPECIFIED.
- MINIMUM CONDUIT SIZE IS 3/4". MINIMUM WIRE SIZE IS #12 AWG FOR POWER CONDUCTORS AND #16 AWG FOR CONTROL WIRING. ALL WIRING TO BE COPPER. ALL STRANDED WIRE SHALL BE TERMINATED WITH CRIMP ON INSULATED SPADE LUGS FOR ALL RECEPTACLES.
- ALL RECEPTACLES AND SWITCHES SHALL BE HEAVY DUTY TYPE W/20 AMP RATING UNLESS OTHERWISE NOTED.
- ALL EQUIPMENT SHALL BE CONNECTED WITH A SECTION OF SEALTITE FLEXIBLE CONDUIT AND FITTINGS AS NECESSARY.
- CONSULT CONTROL WIRING DIAGRAM FOR PUMP CONTROL PANEL BEFORE WIRING TO VERIFY PROPER NUMBER OF CONDUCTORS AND ROUTING.
- VERIFY SIZES OF ALL CONDUITS FOR PUMP CABLES BASED ON EQUIPMENT BEING FURNISHED.
- VERIFY STUB UP LOCATIONS WITH EQUIPMENT BEING FURNISHED FOR PROPER ROUTING.
- ALL WIRING ON LOAD SIDE OF UTILITY SERVICE SHALL BE COPPER.

5/12/2022 4:43 PM MELKS25 P:\21-028\DWGS\ELEC-DETAILS.DWG

NO	DATE	REVISION	BY

AMERICAN ENGINEERING CONSULTANTS, INC.
 1300 12th Street, Suite A • P.O. Box 2299 • Cayce, SC 29171
 Phone: (803) 791-1400 • Fax: (803) 791-8110
 Internet: www.aec-sc.com • Email: info@aec-sc.com

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DATE	SEPTEMBER 2021
SCALE	AS SHOWN
DRAWN	MAB
DESIGNED	BMC
CHECKED	WHB
JOB NO	21-028
CAD FILE	ELEC-DETAILS
LAYOUT	ELECT DET

Upgrades to Pump Station "B"

PREPARED FOR

Town of Edisto Beach

Colleton County, South Carolina

Pump Station "B" - Electrical - Notes and Details

DRAWING NO.	7
OF	7
FILE NO.	