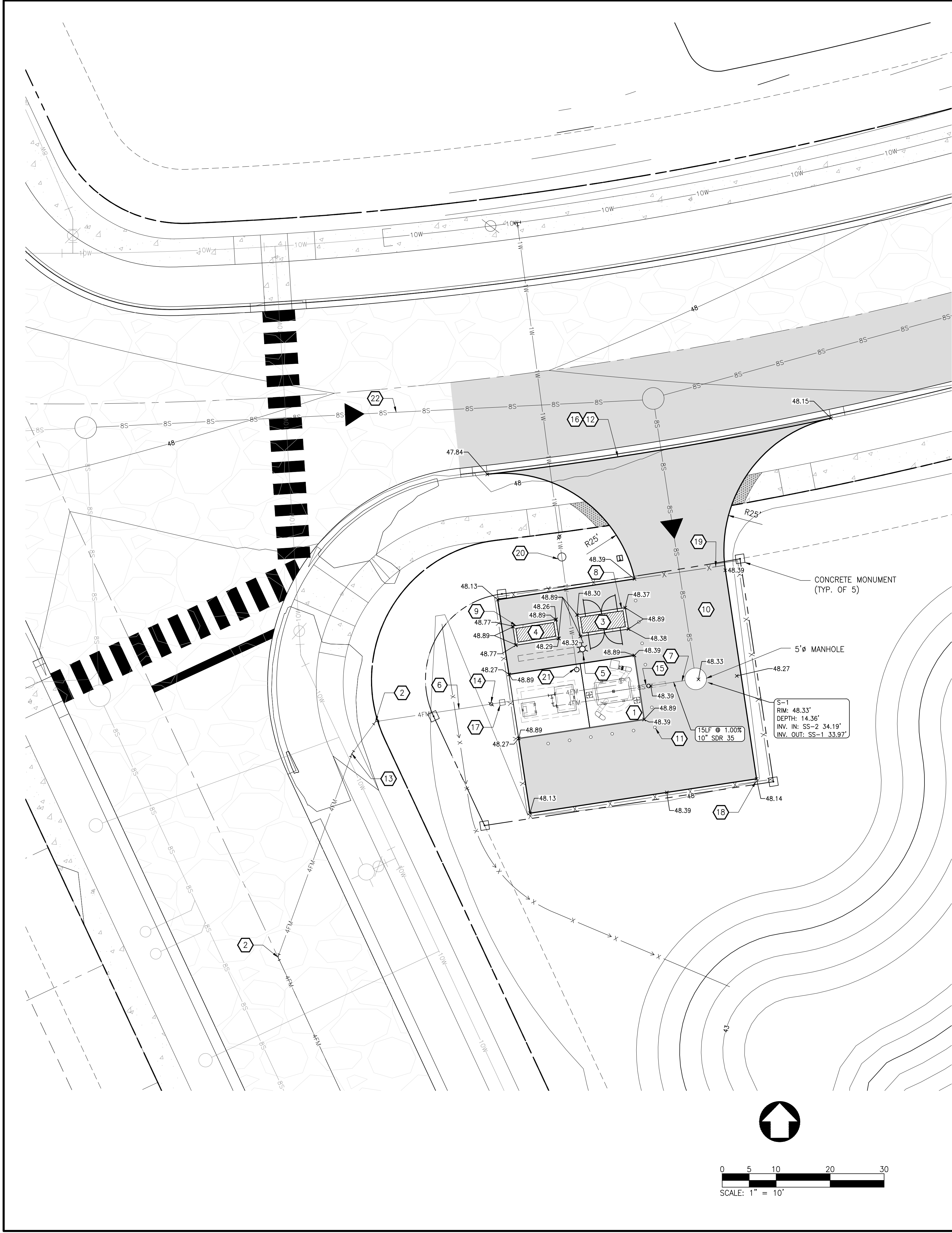


PEN-RED	0.01 INCHES (1.0mm)	PEN-YELLOW	0.01 INCHES (1.0mm)
PEN-BLUE	0.01 INCHES (1.0mm)	PEN-ORANGE	0.01 INCHES (1.0mm)
PEN-GREEN	0.01 INCHES (1.0mm)	PEN-BROWN	0.01 INCHES (1.0mm)
PEN-PINK	0.01 INCHES (1.0mm)	PEN-GRAY	0.01 INCHES (1.0mm)
PEN-VIOLET	0.01 INCHES (1.0mm)	PEN-TEAL	0.01 INCHES (1.0mm)
PEN-LIGHT BLUE	0.01 INCHES (1.0mm)	PEN-LIGHT GREEN	0.01 INCHES (1.0mm)
PEN-LIGHT PINK	0.01 INCHES (1.0mm)	PEN-LIGHT BROWN	0.01 INCHES (1.0mm)
PEN-LIGHT VIOLET	0.01 INCHES (1.0mm)	PEN-LIGHT TEAL	0.01 INCHES (1.0mm)



GENERAL NOTES

- SEWERS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE WATER MAIN AND THE SEWER. CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE AS FAR AS POSSIBLE FROM WATER MAIN JOINTS. MAINTAIN MINIMUM 18" VERTICAL SEPARATION BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER AT CROSSING. AT CROSSINGS ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. WHEN IT IS IMPOSSIBLE TO MAINTAIN THE MINIMUM SEPARATION DISTANCES, THE DHSS OFFICE OF DRINKING WATER MUST SPECIFICALLY APPROVE ANY VARIANCE.
- ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING PIPE INVERTS, MANHOLE INVERTS AND LOCATIONS PRIOR TO CONNECTION WITH PROPOSED PIPING.
- THE CONTRACTOR SHALL PROVIDE FITTINGS AS SHOWN ON THE PLAN OR AS REQUIRED TO CONFORM TO FINAL LOCATION AND GRADE.
- ALL PIPING FOR WHICH ELEVATIONS ARE NOT SHOWN SHALL HAVE 4' MINIMUM COVERAGE
- PROVIDE BUTTRESSES AT ALL BENDS, TEES, CAPS, OR PLUGS FOR ALL PRESSURE LINES. EXCAVATION AGAINST WHICH BUTTRESSES WILL BEAR SHALL BE FIRM BEARING, FLAT AND AT PROPER ANGLE TO THE PIPE CONNECTION.
- ALL NUTS, BOLTS, WASHERS, SCREWS, ANCHOR BOLTS, AND OTHER FASTENERS OUTSIDE AND INSIDE PUMP STATION WET WELL SHALL BE TYPE 316 STAINLESS STEEL.
- CONTRACTOR SHALL VERIFY VENTILATION PIPING SHALL NOT INTERFERE WITH THE REMOVAL OF PUMPS. CONTRACTOR SHALL ENSURE AND DEMONSTRATE CLEAR AND FREE MOVEMENT OF PUMPS DURING REMOVAL AND CLEARANCE OF ALL VENTILATION PIPING, APPURTENANCES AND ANY OTHER OBSTRUCTIONS.

CONSTRUCTION NOTES

- FURNISH AND INSTALL PUMP STATION, SEE SHEET C7.1 FOR DETAILS.
- 4" 45° BEND.
- FURNISH AND INSTALL ELECTRICAL CABINET.
- FURNISH AND INSTALL PAD MOUNTED STAND-BY GENERATOR.
- FURNISH AND INSTALL POLE MOUNTED LIGHT FIXTURE, POSITION FIXTURE SO THAT 90% OF THE LIGHTING SHALL BE DIRECTED TO THE WET WELL ENTRANCE. POLE BASE SHALL BE HINGED. SEE SHEET E1.5 FOR DETAILS.
- FURNISH AND INSTALL 4" PVC DR18 FORCEMAIN.
- 10" DR26 INFLUENT SEWER.
- FURNISH AND INSTALL ELECTRICAL CABINET CONCRETE SLAB.
- FURNISH AND INSTALL GENERATOR CONCRETE SLAB.
- FURNISH AND INSTALL BITUMINOUS PAVEMENT. SEE DETAIL ON SHEET C7.4.
- FURNISH AND INSTALL 6" DIAMETER PIPE BOLLARD (TYP.).
- MATCH PUMP STATION ACCESS DRIVE WITH EXISTING ROAD GRADE.
- 4" 11 1/2° BEND.
- FURNISH AND INSTALL 4" PLUG VALVE (TYP.).
- FURNISH AND INSTALL FALL PROTECTION TIE-OFF POST. SEE DETAIL SHEET C7.3.
- PUMP STATION ENTRANCE. SEE DETAIL SHEET C7.3.
- FURNISH AND INSTALL TONING WIRE BOX. SEE DETAIL SHEET C7.4.
- FURNISH AND INSTALL VINYL FENCE. SEE DETAIL SHEET C7.3.
- FURNISH AND INSTALL 16-FOOT SLIDING GATE. SEE DETAIL SHEET C7.3.
- FURNISH AND INSTALL 1" WATER METER PER TOWN STANDARDS. SEE DETAIL SHEET C7.4.
- FURNISH AND INSTALL 1" FROST FREE YARD HYDRANT MODEL WOODFORD Y-1 PER TOWN STANDARDS. SEE DETAIL SHEET C7.4.
- SEE DRAWING C6.1 FOR LIMITS OF PHASE 2 GRAVITY SEWER CONSTRUCTION.

EXISTING LEGEND

	PROPERTY LINE
	CONTOUR
	EXISTING SEWER
	EDGE OF PAVEMENT
	BOUNDARY MARKERS

PROPOSED LEGEND

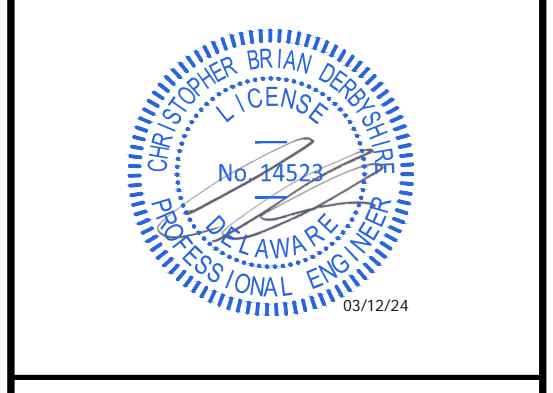
	WATER LINE, VALVE AND WATER LATERAL
	SEWER LINE, SEWER LATERAL, FLOW ARROW AND MANHOLE
	FORCE MAIN
	STORMWATER PIPE, MANHOLE AND INLET
	LOT LINE
	EASEMENT
	PROPERTY BOUNDARY
	PHASING LINE
	SIDEWALK
	HANDICAP RAMP
	CONTOUR

PRINTS ISSUED FOR:
DRAWINGS STAGE

DATE	
REVISIONS	
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 GEORGETOWN, DELAWARE

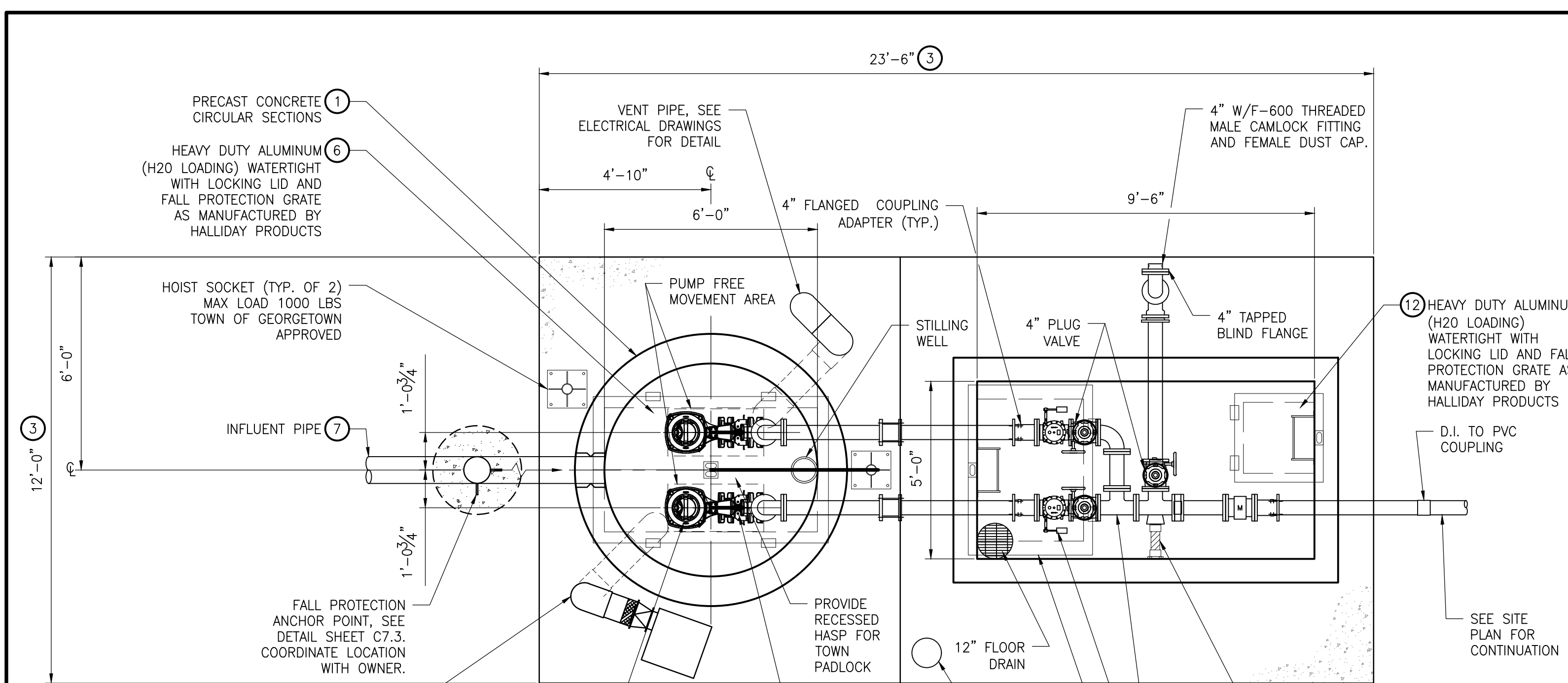


PUMP STATION SITE PLAN

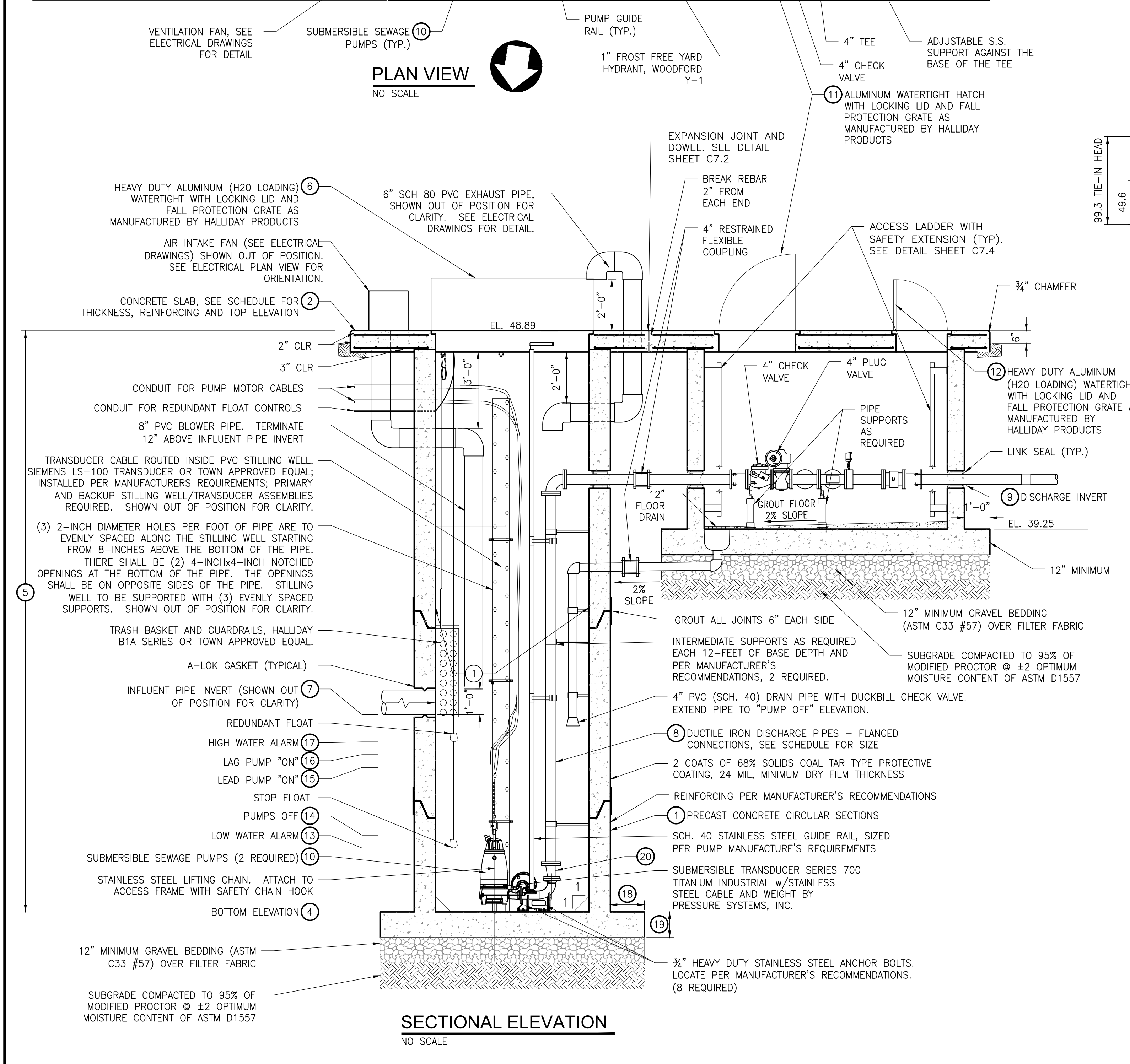
SCALE	: AS NOTED	SHEET NO.	
DESIGN BY	: CBD		
DRAWN BY	: MMD		
CHECKED BY	:		
GMB FILE	: 230004		
DATE	: FEB 2024		

C7.0

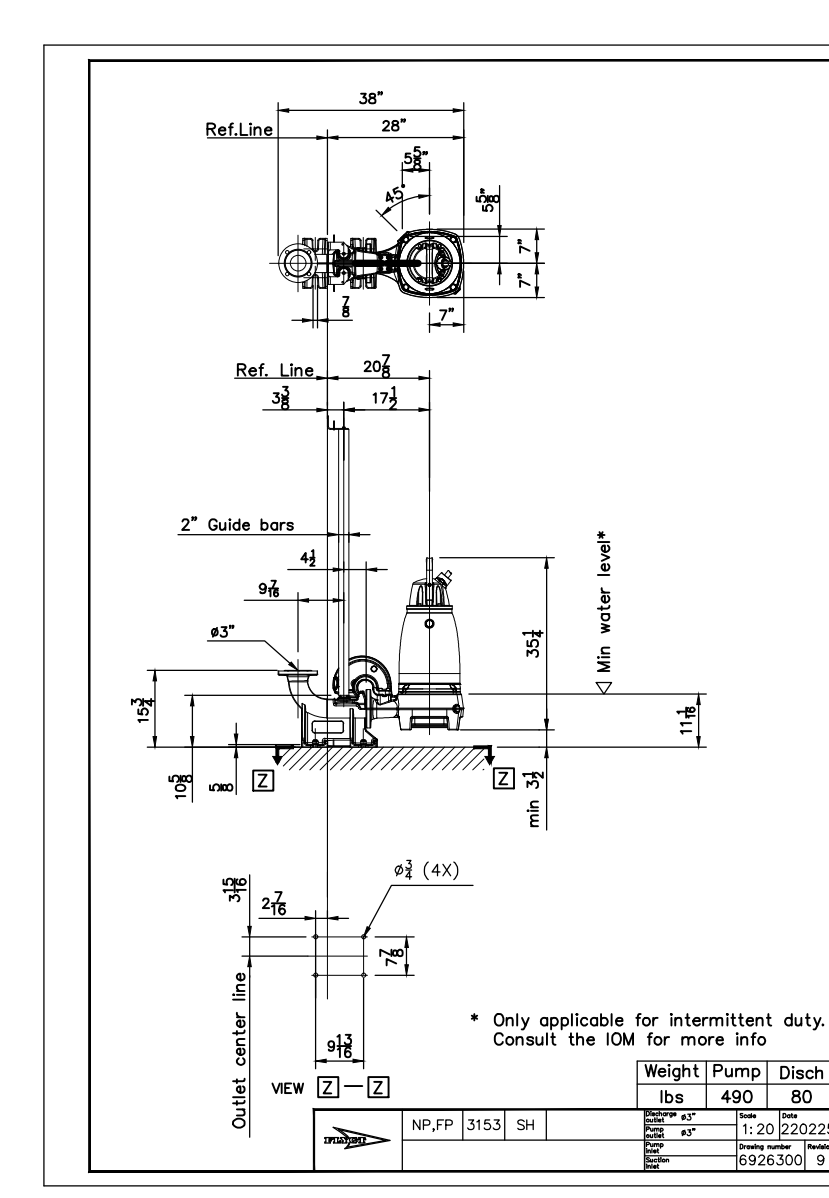
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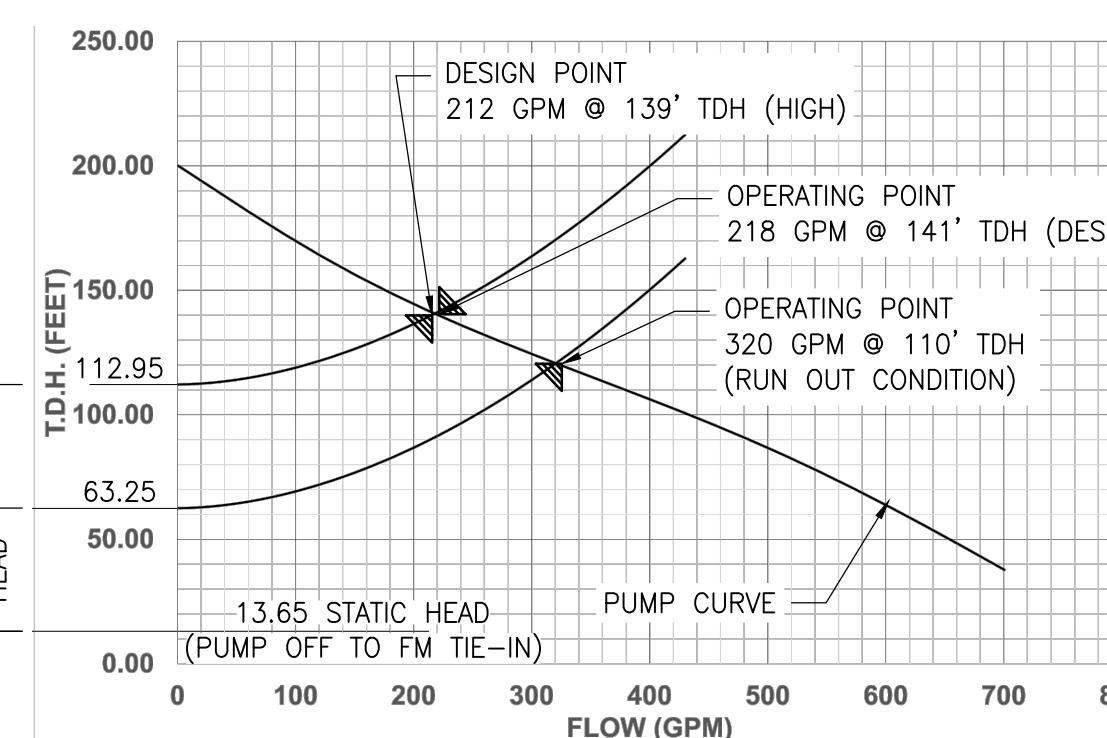
PLAN VIEW
NO SCALE



SECTIONAL ELEVATION
NO SCALE



FLYGT NP 3153 SH - 167mm IMPELLER PUMP



PUMP CURVE

PUMP STATION DESIGN CALCULATIONS

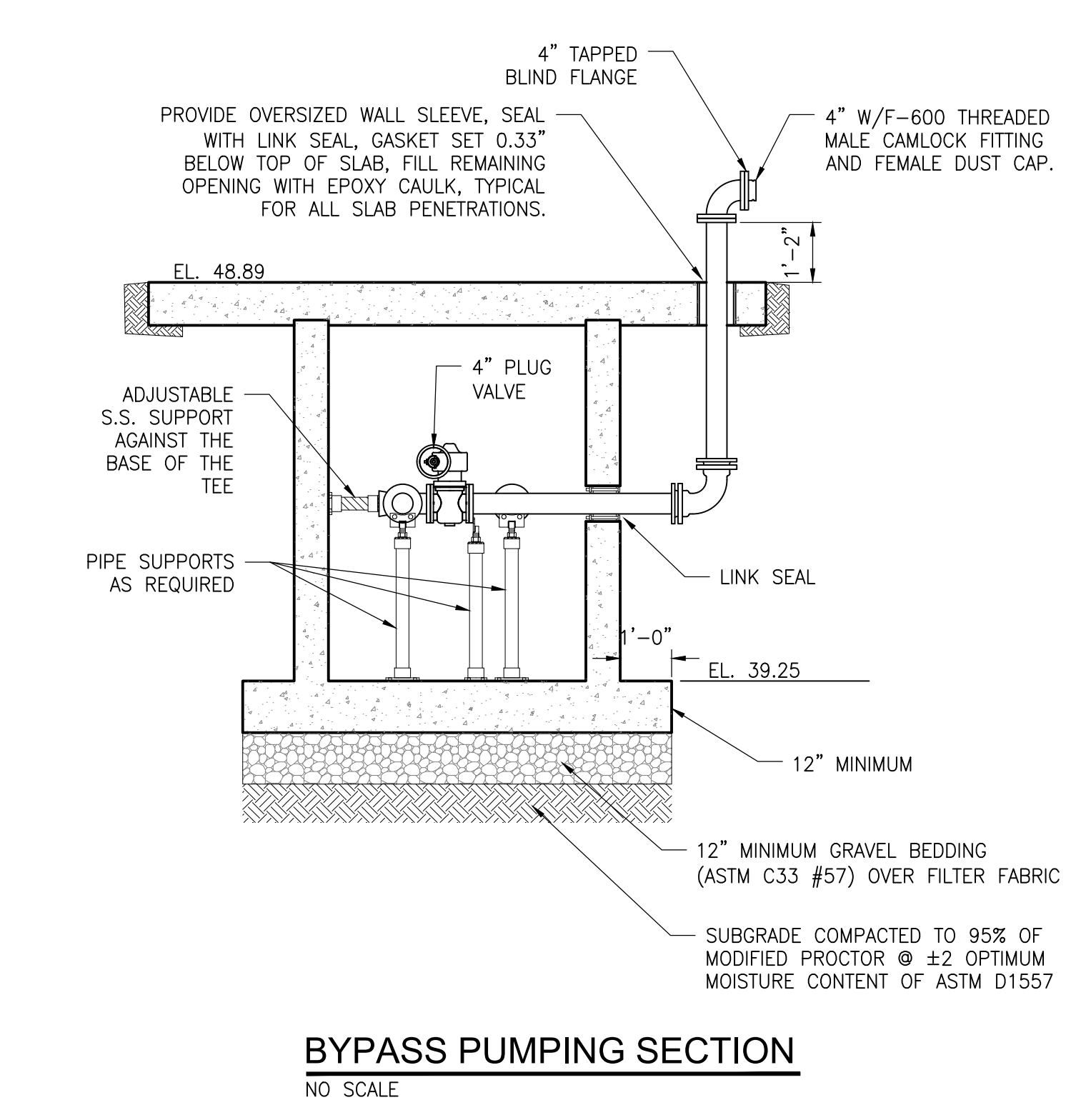
DESIGN DATA
 DESIGN EDU'S (367 EDU'S + (2) 10 EDU POOL HOUSES): 387
 PEAK FACTOR: 3.5
 PER CAPITA FLOW (Q_a): 87,075 GPD (60.47 GPM)
 Q_a = EDU X 225
 PEAK DESIGN FLOW (Q_p): 304,763 GPD (212 GPM)
 Q_p = (Q_a X 3.5)
 WET WELL VOLUME (DESIGN) (GALLONS): 370 GALLONS
 V_{MIN} = (T_{MIN} X Q_p) / 4
 T_{MIN} = 7
 WET WELL VOLUME (RUN-OUT CONDITION 320 GPM) (GALLONS): 560 GALLONS
 V_{REQ} = (T_{MIN} X 320) / 4
 T_{MIN} = 7

FORCEMAIN SIZING
 FORCEMAIN SIZE: 4-INCH
 FORCEMAIN VELOCITY: (DESIGN) 4.7 FPS
 V = (Q_p X 0.32) / AREA
 FORCEMAIN VELOCITY (RUN-OUT CONDITION 320 GPM): 7.3 FPS
 V = (320 X 0.32) / AREA

WORKING VOLUME CALCULATIONS
 WORKING VOLUME PER 6'-0" FOOT OF WET WELL 211 GAL/FT
 VOLUME BETWEEN OFF AND ON (31.99-29.43) 2.65'

NOTE: CALCULATIONS BASED ON INFORMATION PROVIDED IN TOWN OF GEORGETOWN STANDARDS.

PUMP STATION SCHEDULE			
1	PRECAST CONCRETE PUMP STATION	INSIDE DIAMETER	6'-0"
		MINIMUM WALL THICKNESS	0'-8"
2	TOP SLAB, 4000 PSI CONCRETE	TOP OF SLAB ELEVATION	48.89
		SLAB THICKNESS	10"
3	TOP SLAB DIMENSIONS	REINFORCEMENT	#5@ 10' E.W.T.&B
		LENGTH	23'-6"
4	BOTTOM SLAB, 3500 PSI CONCRETE	WIDTH	12'-0"
		BOTTOM SLAB ELEVATION	26.17'
5	BOTTOM SLAB, 3500 PSI CONCRETE	SLAB THICKNESS	1'-0"
		REINFORCEMENT	PER MANUFACTURER
6	TOTAL DEPTH - TOP TO FINISHED BOTTOM ELEV.		22.72'
6	PUMP HATCH WITH FALL PROTECTION GRATE (OPEN CLEAR SPACE DIM.)		42"x72"
7	INFLUENT PIPE	PIPE INSIDE DIAMETER	10"
		INVERT ELEVATION	33.82
8	PUMP DISCHARGE PIPE & FITTING DIA.	SIZE	4"
		INVERT ELEVATION - OUT	42.88
9	FORCE MAIN PIPE DIAMETER (4' MINIMUM COVER WITH DETECTION WIRE AND DETECTION TAPE)		4"
10	SEWAGE PUMPS: DESIGN: SIMPLEX	CAPACITY OF EACH PUMP (GPM)	218
		T.D.H. (FT)	141
		H.P.	23.0
11	VALVE VAULT HATCH WITH FALL PROTECTION GRATE (OPEN CLEAR SPACE DIM.)		36"x48"
12	VALVE VAULT HATCH WITH FALL PROTECTION GRATE (OPEN CLEAR SPACE DIM.)		24"x24"
13	LOW WATER ALARM		28.67
14	PUMPS "OFF"		29.17
15	LEAD PUMP "ON"		31.82
16	LAG PUMP "ON"		32.32
17	HIGH WATER ALARM		32.82
18	BASE FLANGE DIMENSION		1'-4"
19	BASE MINIMUM THICKNESS		1'-0"
20	REDUCER		4"x3"



BYPASS PUMPING SECTION
NO SCALE

PRINTS ISSUED FOR: DRAWINGS STAGE

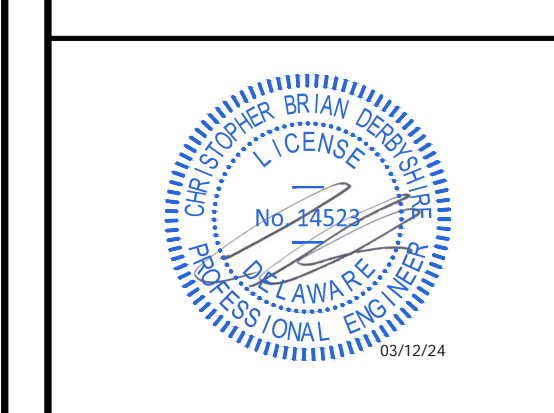
DATE: _____

REVISIONS: _____

NO: _____

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PUMP STATION PLAN AND SECTION

SCALE: AS NOTED SHEET NO. C7.1

DESIGN BY: CBD

DRAWN BY: MMD

CHECKED BY: _____

GMB FILE: 230004

DATE: FEB 2024

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Project: 2023/20004 oaks at georgetown townhomes in drawings working with Pump Station C7.1 Pump Station Plan and Section, 3/12/2024, Matthew M. Ditlich
 PLOT CODE: PUM-PLAN
 PLOT DATE: 2/14/2024 10:00 AM
 PLOT SIZE: 24x36 INCHES (610mm x 914mm)
 PLOT SCALE: 1/8" = 1'-0" (3.175mm)
 PLOT ORIGIN: 0,0
 PLOT UNIT: INCHES
 PLOT DIMENSIONS: 24.00 INCHES (610mm) x 36.00 INCHES (914mm)
 PLOT AREA: 864.00 SQ INCHES (5544.00 CM²)
 PLOT PERIMETER: 60.00 INCHES (1524.00 CM)
 PLOT WEIGHT: 0.00 LBS (0.00 KG)
 PLOT COLOR: PENTON 200 INCHES (50mm)

BUOYANCY PROTECTION

PUMP STATION PARAMETERS

Wet well inside diameter =	6	feet
Min. wall thickness =	8	inches
Total depth =	22.55	feet (top slab to finish bottom elevation)
Top slab length =	10.17	feet
Top slab width =	12	feet
Top slab thickness =	10	inches
Height of cylinder =	21.72	feet
Base min. thickness =	12	inches
Lip min. thickness =	12	inches
Weight of water =	62.4	# / cf
Weight of soil =	110	# / cf
Weight of concrete =	145	# / cf

Assume Lip = 18 inches Minimum of 6"
(Assume water at ground surface)

VALVE VAULT PARAMETERS

Inside Length =	9.5	feet
Inside Width =	5	feet
Min. wall thickness =	8	inches
Total depth =	9.64	feet (top slab to finish bottom elevation)
Top slab length =	13.33	feet
Top slab width =	12	feet
Top slab thickness =	10	inches
Height of valve vault =	8.61	feet
Base min. thickness =	12	inches
Weight of water =	62.4	# / cf
Weight of soil =	110	# / cf
Weight of concrete =	145	# / cf

UPWARD FORCES:

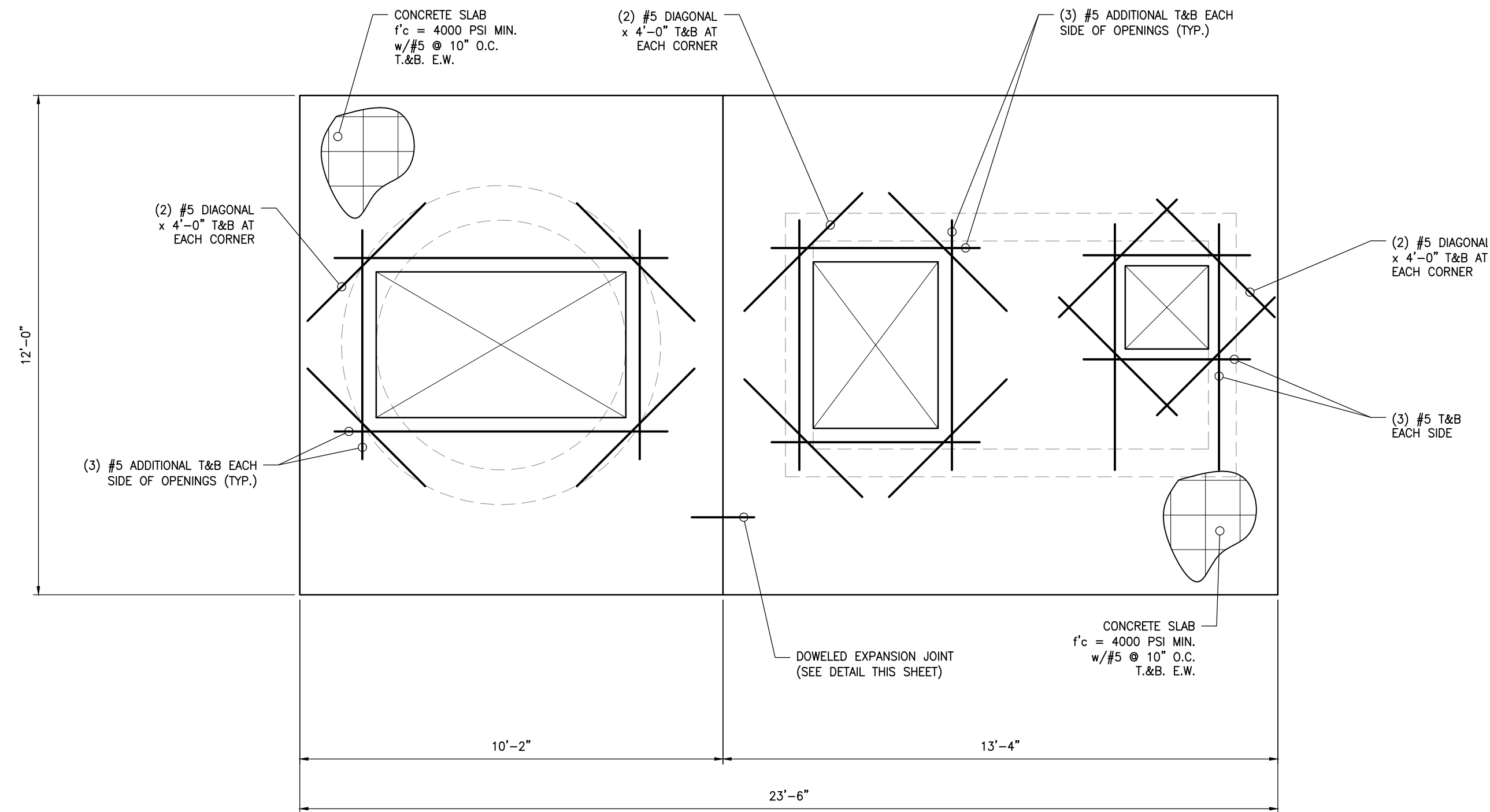
Cylinder = area of inside cylinder * height of cylinder * weight water
Cylinder = 38,315 lbs.
Valve Vault = area of inside valve vault * height of valve vault * weight water
Valve Vault = 26,103 lbs.
Total Up = 64,418

DOWNWARD FORCES:

Top = (top slab length * top slab width * top slab thickness) - (volume of hatch openings)
*(weight concrete - weight water)
Top = 6,641 lbs.
Cylinder = area of concrete cylinder * height of cylinder * (weight concrete - weight water)
Cylinder = 25,046 lbs.
Base of PS = area of cylinder * base thickness * (weight concrete - weight water)
Base = 3,489 lbs.
Base of Lip = area of lip * base thickness * (weight concrete - weight water)
Base = 5,594 lbs.
Valve Vault = area of valve vault * height of valve vault including base
*(weight concrete - weight water)
Valve Vault = 12,555 lbs.
Soil = area of soil cylinder above lip * height of cylinder * (weight soil - weight water)
Soil = 37,527 lbs.
Total Down = 90,852 lbs.

FACTOR OF SAFETY

Desired Factor of Safety = 1.5
F.O.S. = Total Down / Total Up
F.O.S. = 1.50
(If F.O.S. is different from the desired value, adjust the lip.)



TOP SLAB STRUCTURAL PLAN

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

CONCRETE

ALL CONCRETE SHALL BE MADE IN ACCORDANCE WITH DESIGN MIXES WHICH ARE TO BE APPROVED BY THE ARCHITECT OR ENGINEER PRIOR TO CASTING ANY CONCRETE. MIXES SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTION ACI 318. SEE SPECIFICATIONS FOR CEMENT TYPE, MINIMUM CEMENT CONTENT AND WATER/CEMENT RATIO.

MINIMUM SPECIFIED COMPRESSIVE STRENGTH $f'c @ 28$ DAYS SHALL BE 4000 PSI.
SLUMP SHALL BE 4" +/- 1". CONCRETE SHALL BE AIR-ENTRAINED.

ALL EXTERIOR CONCRETE AND CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED (5% +/- 1%). USE OF ADDITIVES SHALL NOT BE PERMITTED UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER. USE OF ADDITIVES CONTAINING CALCIUM CHLORIDE SHALL NOT BE PERMITTED. DO NOT USE HIGH-RANGE WATER REDUCING ADMIXTURES IN AIR-ENTRAINED CONCRETE. CONFORM TO ASTM C260.

ADDITION OF WATER TO THE CONCRETE AT THE JOB SITE FOR THE PURPOSE OF INCREASING THE SLUMP OR FOR RETEMPERING THE CONCRETE WHICH HAS BEGUN TO SET IS STRICTLY PROHIBITED. SEE THE PROJECT SPECIFICATIONS FOR REQUIREMENTS OF WATER ADDITION TO CONCRETE AT THE JOBSITE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ANCHOR BOLTS, CLIPS, INSERTS, CONNECTION PLATES, SLEEVES, SLOTS AND OTHER REQUIRED ITEMS IN ACCORDANCE WITH THE CONTRACT DRAWINGS, AND IN COOPERATION WITH OTHER TRADES PRIOR TO PLACING CONCRETE. ANCHOR BOLTS AND EQUIPMENT PEDESTALS SHALL BE SIZED AND LOCATED AS REQUIRED TO SUIT EQUIPMENT FURNISHED.

REINFORCING STEEL SHALL BE HIGH STRENGTH NEW BILLET STEEL CONFORMING TO ASTM A-615, GRADE 60 (60,000 PSI). WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A-185. ALL REINFORCING SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH ACI'S MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES, (ACI-315). DETAILS OF REINFORCEMENT SHALL CONFORM TO ACI 318, ACI 315, AND CRSI STANDARDS.

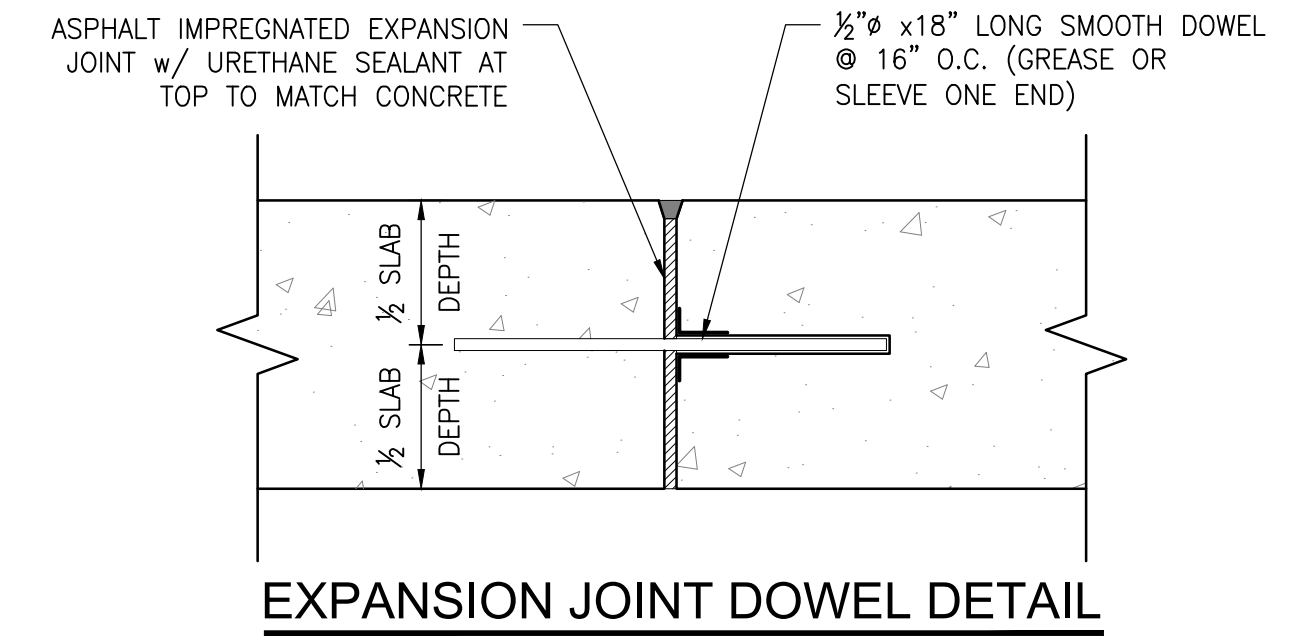
ALL REINFORCING STEEL SHALL BE SECURELY TIED AND ANCHORED IN PLACE TO PREVENT DISLOCATION DURING THE PLACING OPERATION.

REINFORCING STEEL SHALL BE CLEAN OF MUD, DEBRIS, LOOSE RUST, CEMENT, GROUT, OR ANY OTHER MATERIAL WHICH MAY INHIBIT THE BOND BETWEEN THE STEEL AND CONCRETE.

REINFORCED CONCRETE SHALL BE DETAILED AND CONSTRUCTED IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE. (ACI 301-LATEST EDITION) "SPECIFICATIONS FOR STRUCTURAL CONCRETE."

SEE ARCHITECTURAL, CIVIL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL EMBEDDED ITEMS SUCH AS SLEEVES, ANCHORS, ELECTRICAL CONDUITS, OPENINGS, WHICH MAY INTERFERE WITH CONCRETE CONSTRUCTION.

THE AGGREGATE LAYER SHALL BE PLACED OVER FIRM NATURAL SUBGRADE OR ON COMPACTED AND CONTROLLED FILL. FILL UNDER SLABS SHALL BE COMPACTED IN 8 INCH LAYERS TO 95% MAX. DENSITY.



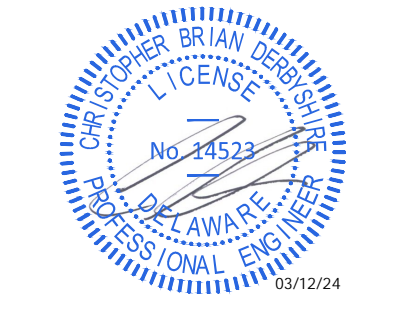
EXPANSION JOINT DOWEL DETAIL

PRINTS ISSUED FOR:
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GEORGETOWN, DELAWARE



**PUMP STATION
STRUCTURAL PLAN
AND SECTION**

SCALE	: AS NOTED	SHEET NO.	
DESIGN BY	: CBD		
DRAWN BY	: MMD		C7.2
CHECKED BY	:		
GMB FILE	: 230004		
DATE	: FEB 2024		

PLOT CODE: PSM-COM (204 INCHES (519mm))
 PLOT CODE: PSM-GEN (210 INCHES (533mm))
 PLOT CODE: PSM-YELW (207 INCHES (526mm))
 PLOT CODE: PSM-WHT (209 INCHES (531mm))
 PLOT CODE: PSM-BLU (209 INCHES (531mm))
 PLOT CODE: PSM-GRN (207 INCHES (526mm))
 PLOT CODE: PSM-RED (204 INCHES (519mm))

SCALE: N.T.S. SUBSEX COUNTY ENGINEERING DEPARTMENT DETAIL
 REVISIONS: APPROVED: SUBSEX COUNTY ENGINEER SLIDING GATE PS-8
 APPROVED: SEP 2018

SCALE: N.T.S. SUBSEX COUNTY ENGINEERING DEPARTMENT DETAIL
 REVISIONS: APPROVED: SUBSEX COUNTY ENGINEER SEWER FORCE MAIN TONING WIRE BOX PS-9
 APPROVED: 12/20/2021

SCALE: N.T.S. SUBSEX COUNTY ENGINEERING DEPARTMENT DETAIL
 REVISIONS: APPROVED: SUBSEX COUNTY ENGINEER SUBMERSIBLE PRESSURE REDUCER - ALL TIERS PS-10
 APPROVED: SEP 2018

DATE: FEBRUARY 2015
 CONSTRUCTION STANDARDS TOWN OF GEORGETOWN
 SECTION - 2 DRAWING D2-1
 NO SCALE
 PLUG THRUST BLOCK DETAIL

PIPE DIA.	4"	6"	8"	10"	12"	16"	18"	20"	24"
A	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
B	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5
C	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
D	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5

SCALE: N.T.S. SUBSEX COUNTY ENGINEERING DEPARTMENT DETAIL
 REVISIONS: APPROVED: SUBSEX COUNTY ENGINEER PUMP STATION FALL PROTECTION PS-11
 APPROVED: SEP 2018

DATE: FEBRUARY 2015
 CONSTRUCTION STANDARDS TOWN OF GEORGETOWN
 SECTION - 2 DRAWING D2-2
 NO SCALE
 TEE THRUST BLOCK DETAIL

BRANCH DIA.	4"	6"	8"	10"	12"	16"	18"	20"	24"
A	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
B	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5
C	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
D	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5

SCALE: N.T.S. SUBSEX COUNTY ENGINEERING DEPARTMENT DETAIL
 REVISIONS: APPROVED: SUBSEX COUNTY ENGINEER PIPE BOLLARD PS-12
 APPROVED: SEP 2018

DATE: FEBRUARY 2015
 CONSTRUCTION STANDARDS TOWN OF GEORGETOWN
 SECTION - 2 DRAWING D2-3
 NO SCALE
 HORIZONTAL BEND THRUST BLOCK DETAIL

BEND	4"	6"	8"	10"	12"	16"	18"	20"	24"
A	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5
B	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
C	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5

SCALE: N.T.S. SUBSEX COUNTY ENGINEERING DEPARTMENT DETAIL
 REVISIONS: APPROVED: SUBSEX COUNTY ENGINEER SEWER FORCE MAIN ISOLATION VALVE PS-13
 APPROVED: 12/26/2021

DATE: FEBRUARY 2015
 CONSTRUCTION STANDARDS TOWN OF GEORGETOWN
 SECTION - 2 DRAWING D2-4
 NO SCALE
 PIPE BEDDING AND BACKFILL

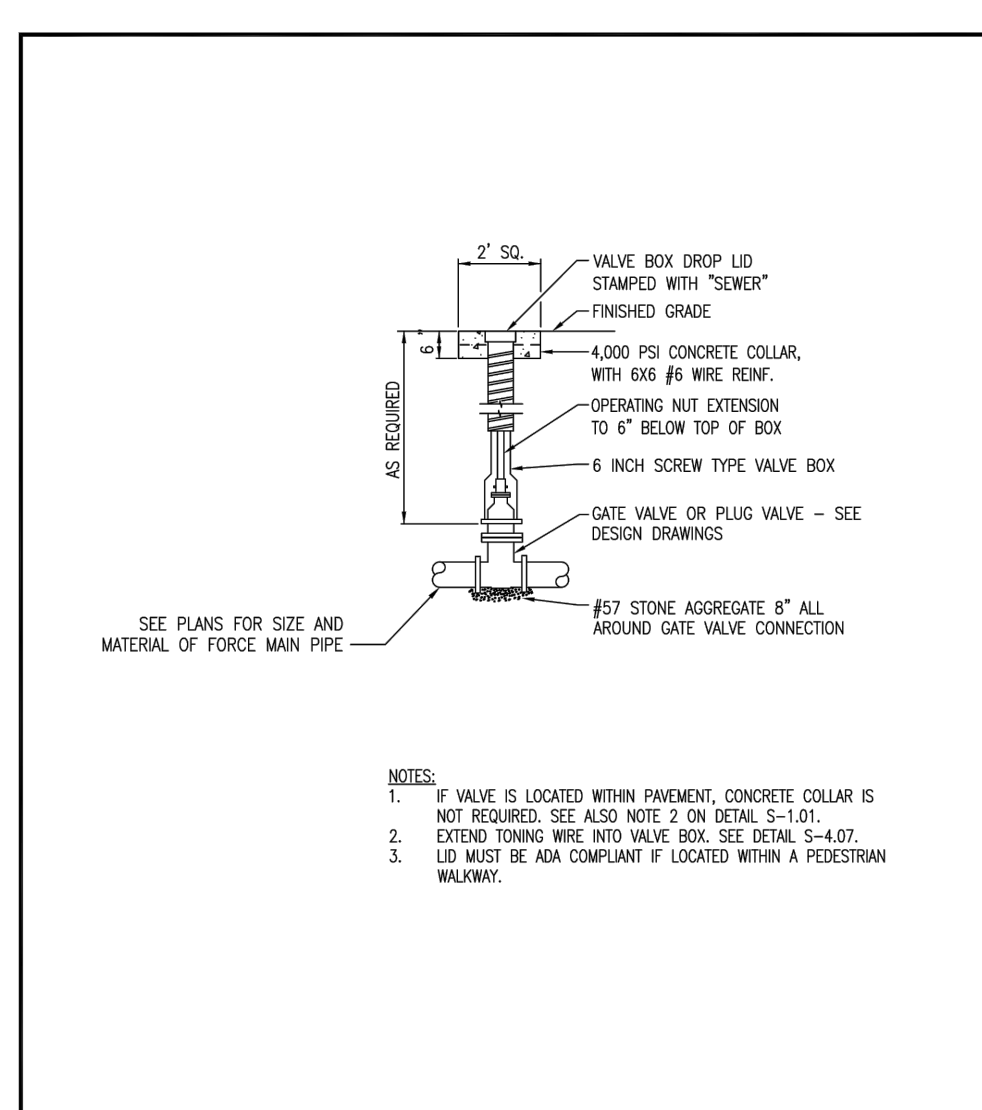
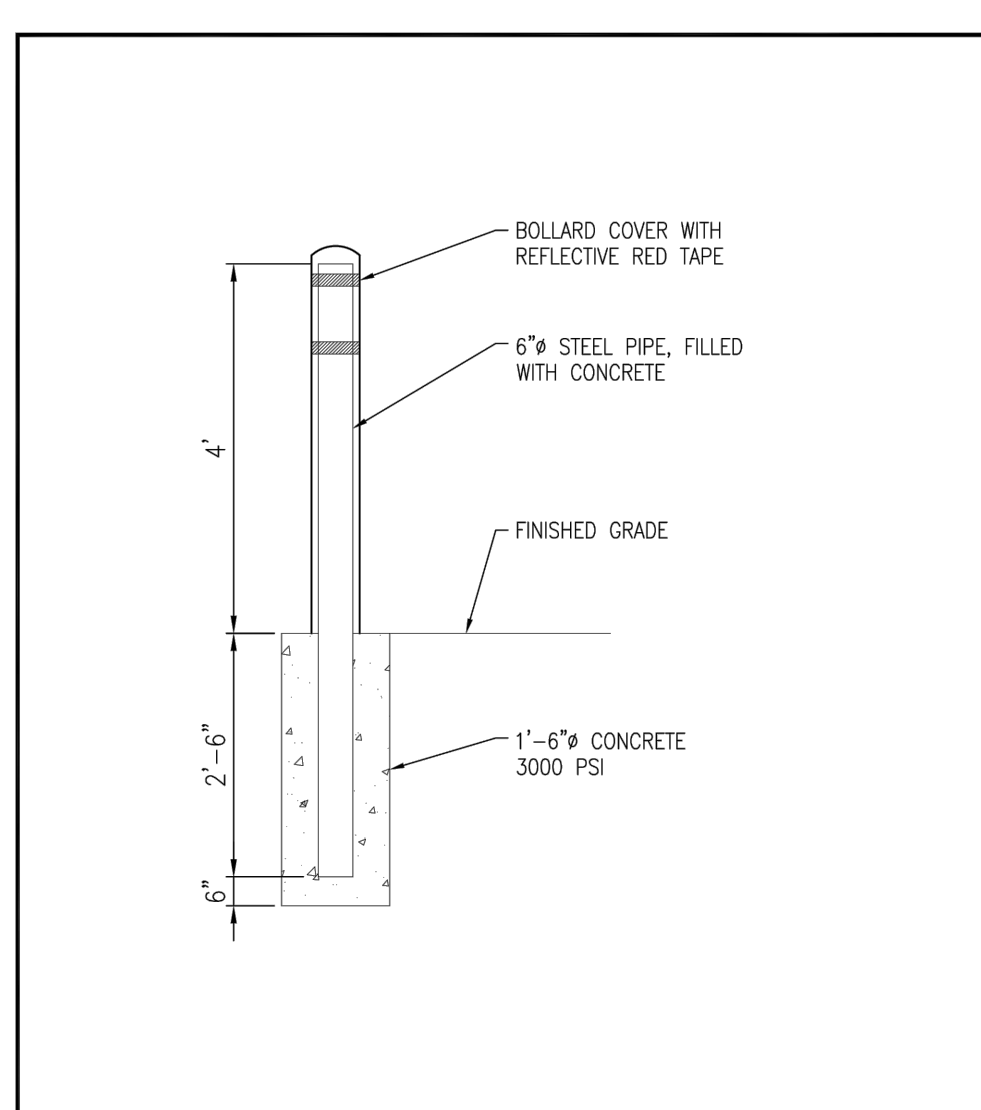
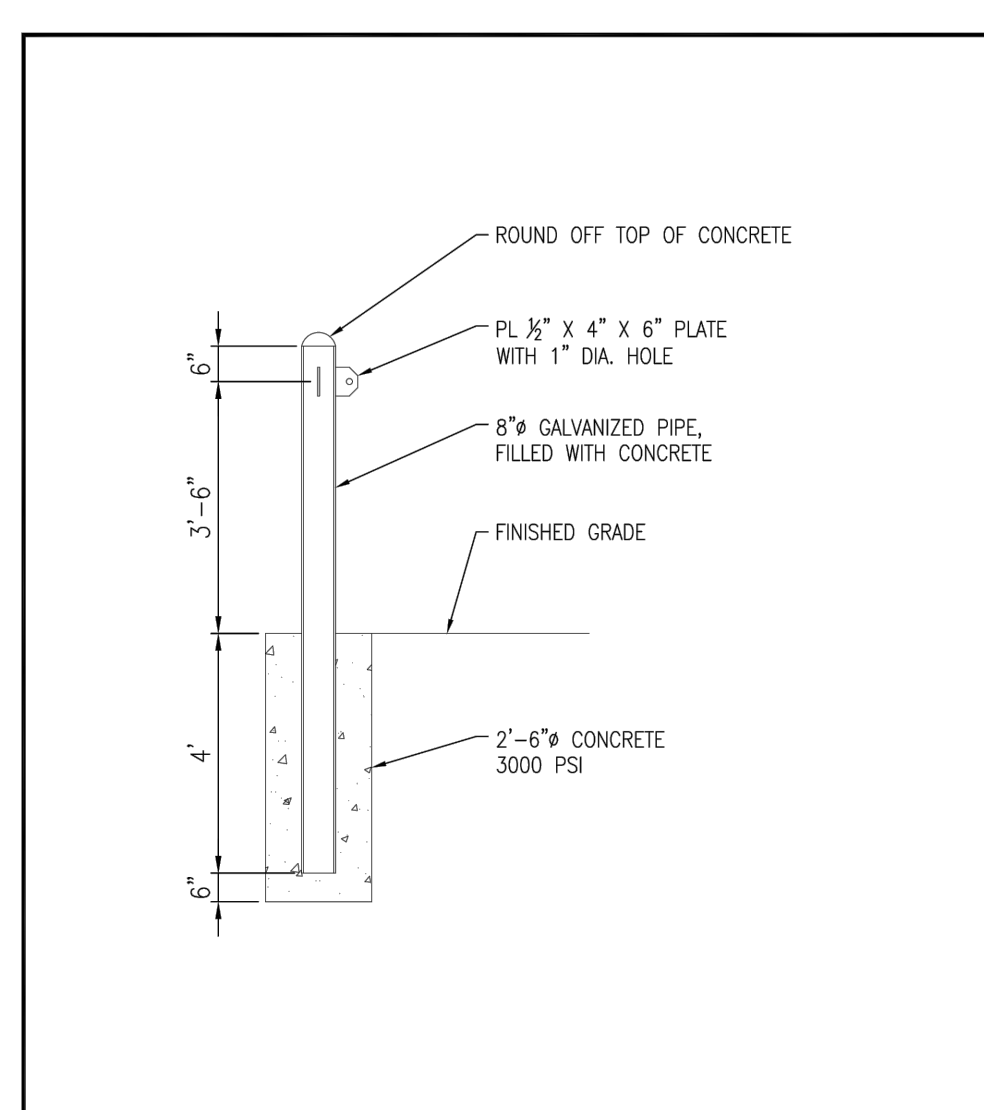
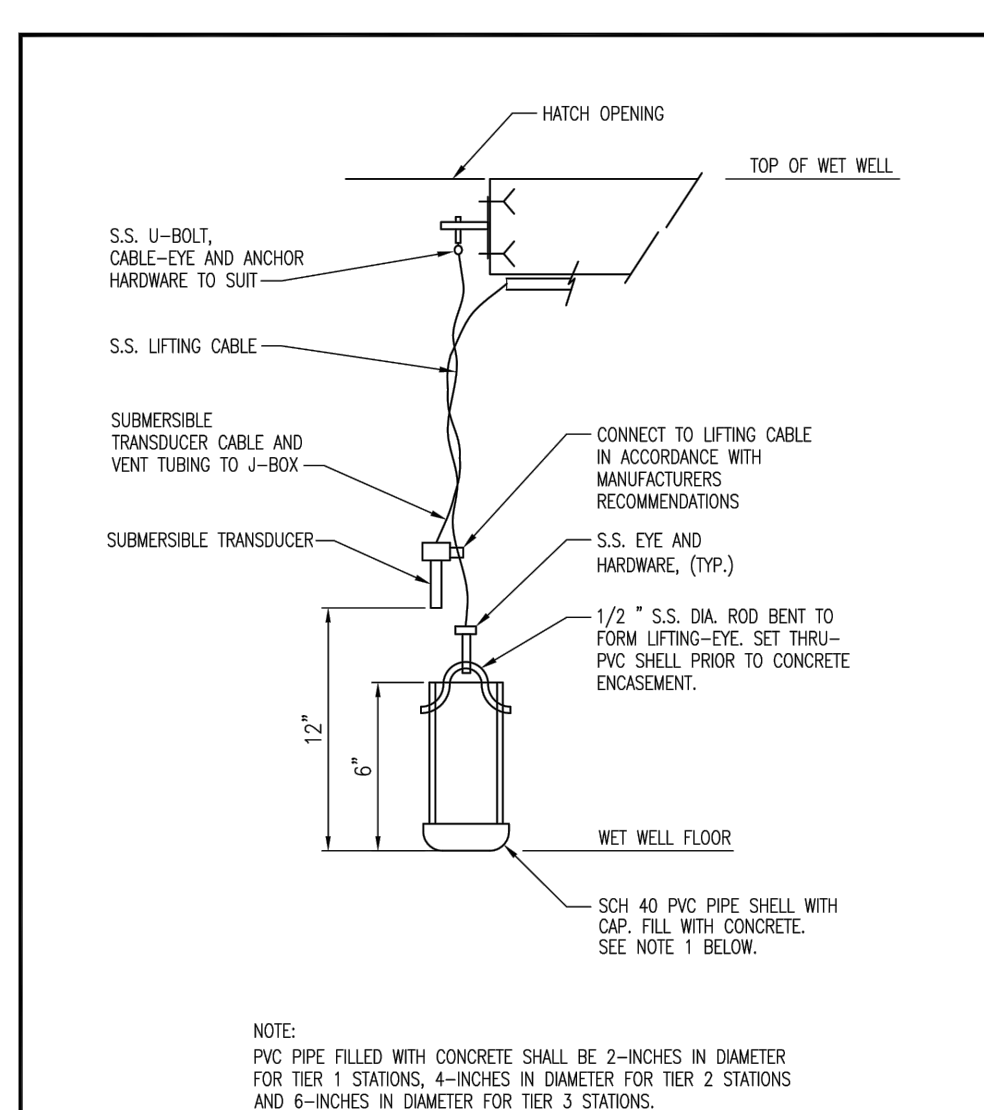
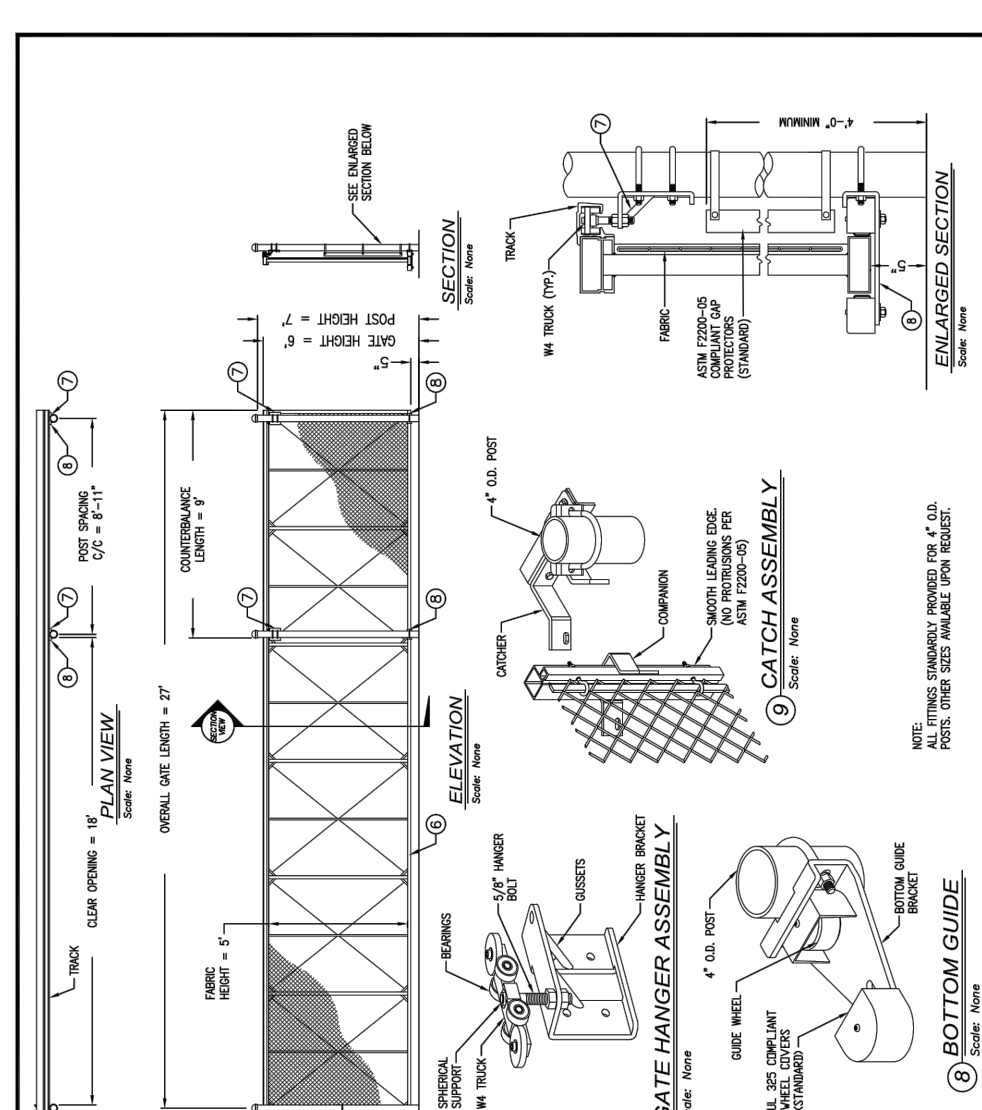
PIPE DIA.	4"	6"	8"	10"	12"	16"	18"	20"	24"
A	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
B	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5
C	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
D	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5

6" HIGH WHITE PRIVACY VINYL FENCE (USA VINYL FENCE COMPANY AUGUSTA MODEL OR EQUAL)
 72" MIN.-96" MAX. (SPACING VARIES)
 CONTRACTOR TO COORDINATE WITH MANUFACTURER
 6'-0"
 3'-0"
 1'-4"Ø
 CONCRETE PIER
6" HIGH VINYL FENCE DETAIL
 NO SCALE

6" CONCRETE SLAB ON GRADE w/ #4 @ 12" O.C.
 6" BEYOND EQUIPMENT
 3/4" CHAMFER
 BITUMINOUS PAVEMENT, SEE DETAIL THIS SHEET.
 1'-4"
 4" STONE (ASTM C33 #57)
 COMPACTED SUBGRADE (95% COMPACTION)
 (2) #4 CONT.
 1/2" ASPHALT IMPREGNATED EXPANSION JOINT
EQUIPMENT PAD DETAIL
 NO SCALE

PAVEMENT DETAIL (PUMP STATION ENTRANCE)
 NO SCALE

4'-0" TRENCH PAYMENT LIMIT
 1'-0"
 60% OF PIPE O.D.
 DETECTABLE EARLY WARNING AND IDENTIFICATION TAPE
 BACKFILL WITH MATERIAL FROM EXCAVATION IF SUITABLE OR SPECIAL BACKFILL WHERE DIRECTED. AREAS UNDER DELDOT JURISDICTION TO BE BACKFILLED IN 8" LIFTS. ALL OTHER AREAS TO BE 12" LIFTS.
 HAND PLACED AND MECHANICALLY TAMPED BACKFILL 6" LAYERS.
 10" CR-1 SUB-BASE
 12" COMPACTED SUBGRADE

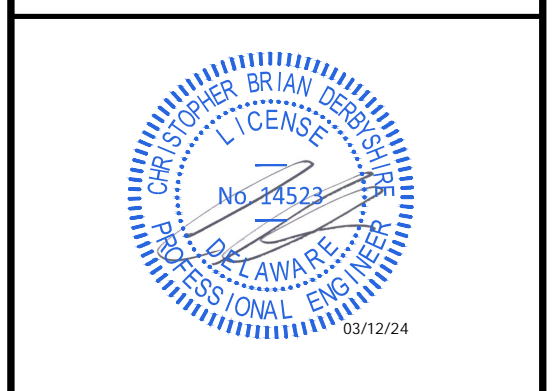


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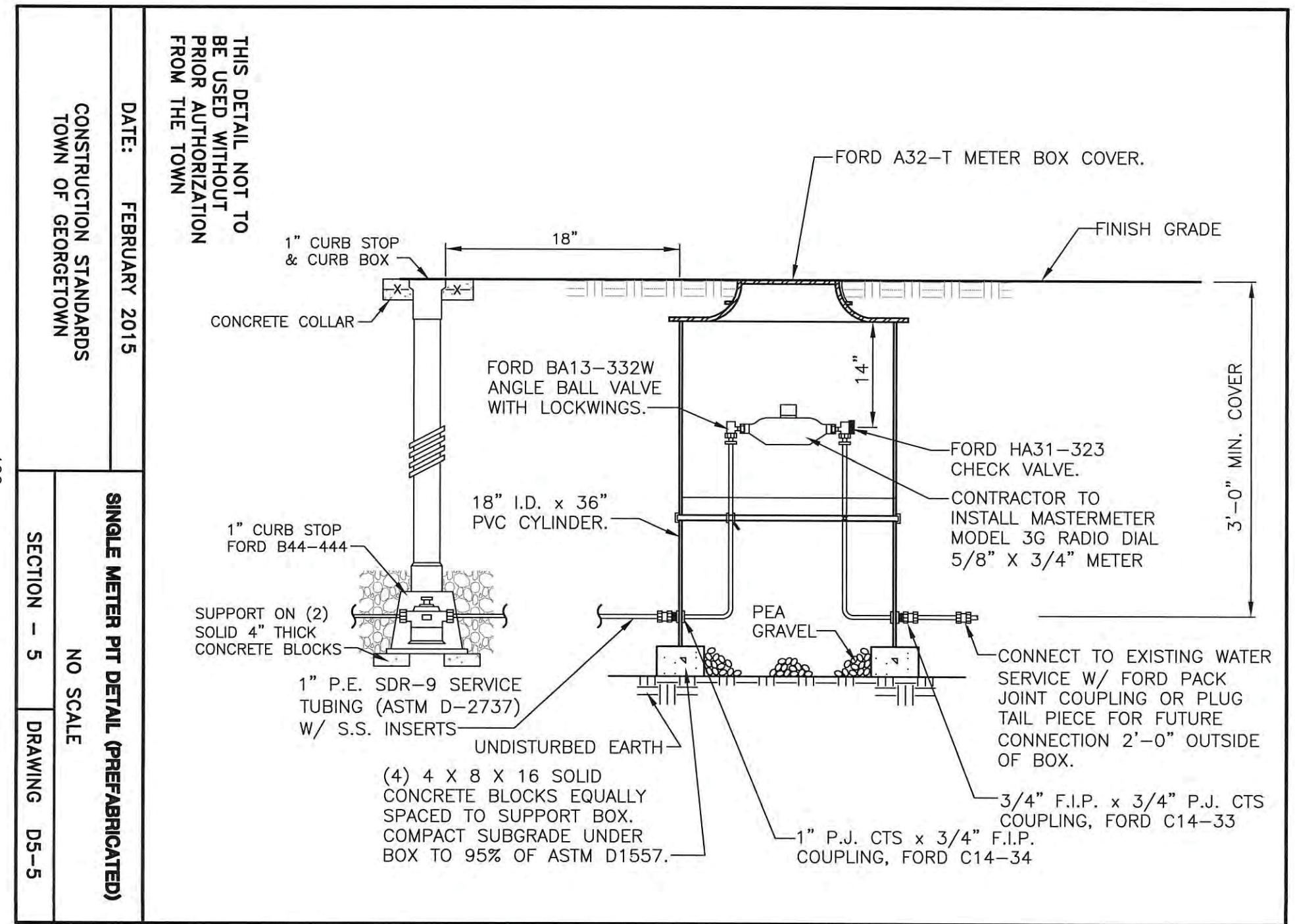
THE OAKS AT GEORGETOWN
 GEORGETOWN, DELAWARE



PUMP STATION DETAILS

SCALE: AS NOTED SHEET NO.
 DESIGN BY: CBD
 DRAWN BY: MMD **C7.3**
 CHECKED BY:
 GMB FILE: 230004
 DATE: FEB 2024

DATE	REVISIONS	NO.

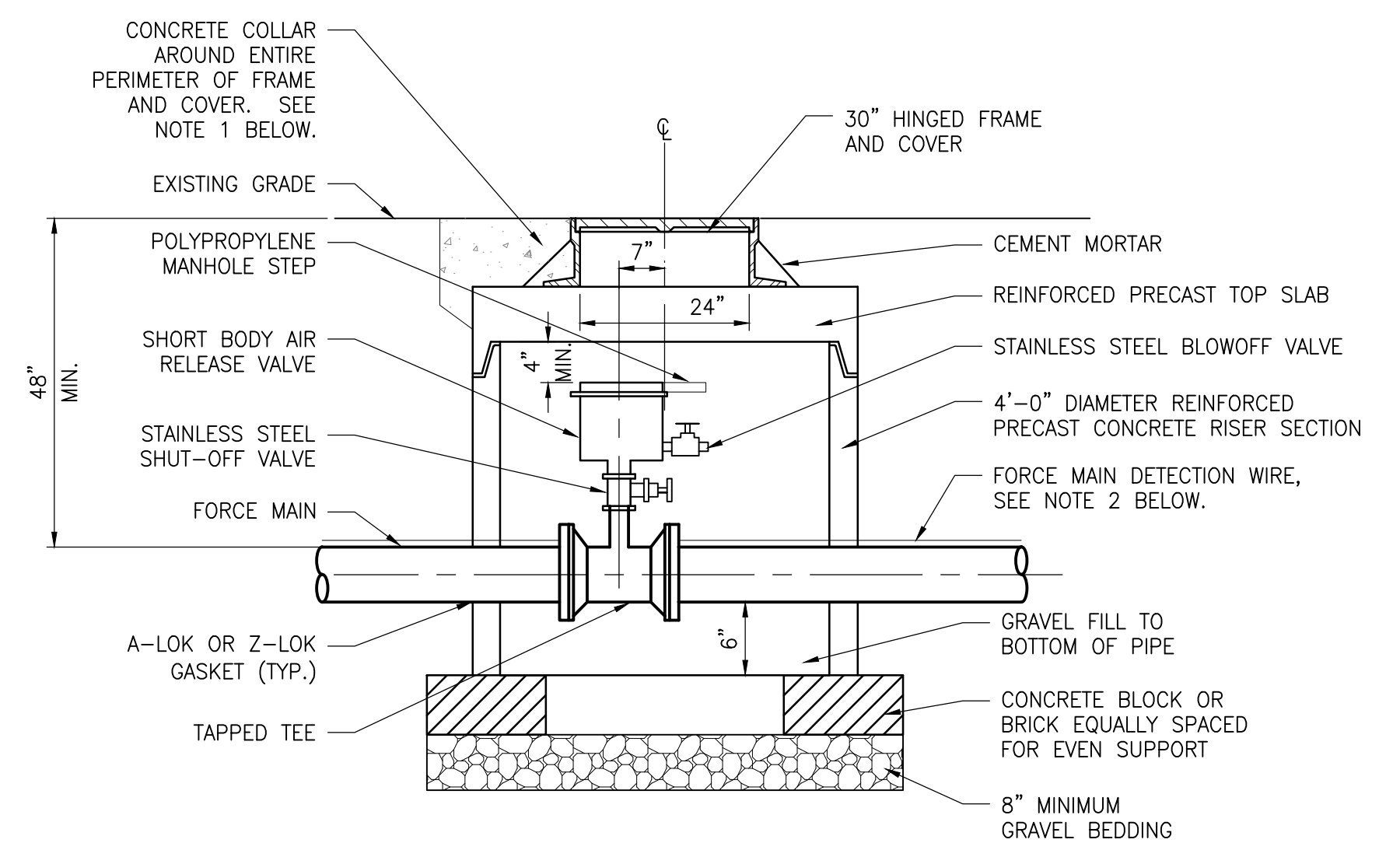
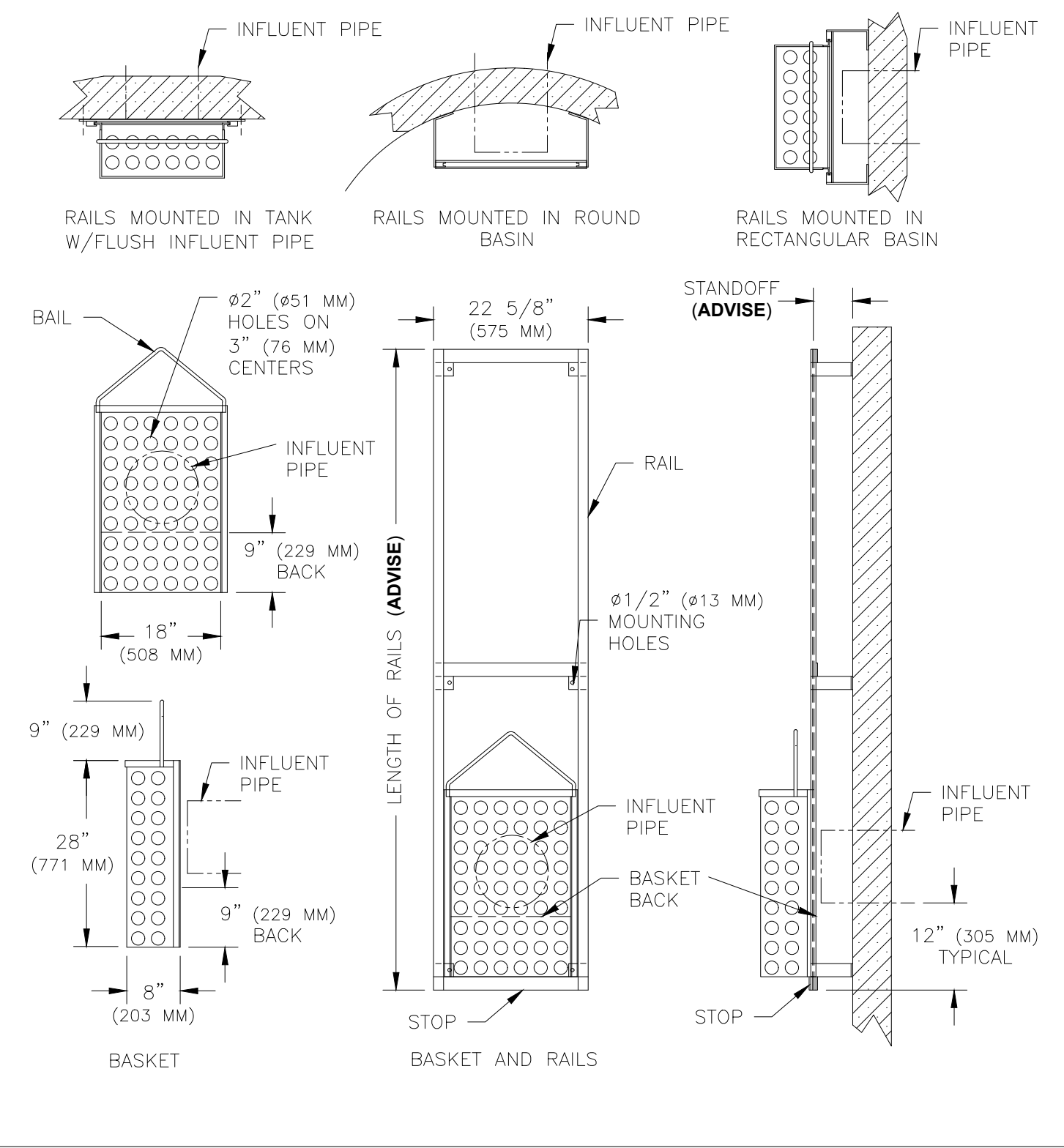


SERIES B1A TRASH BASKET

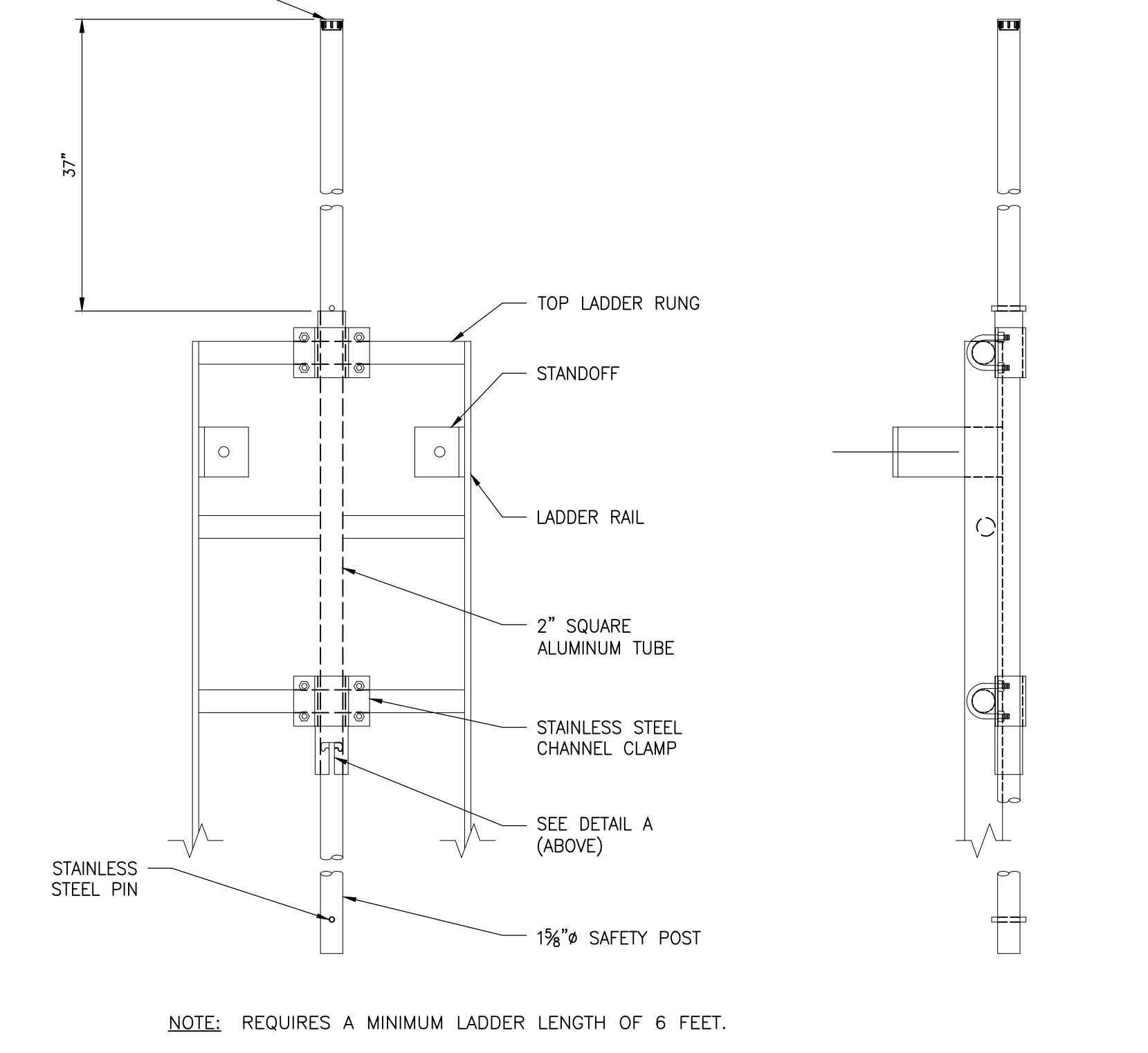
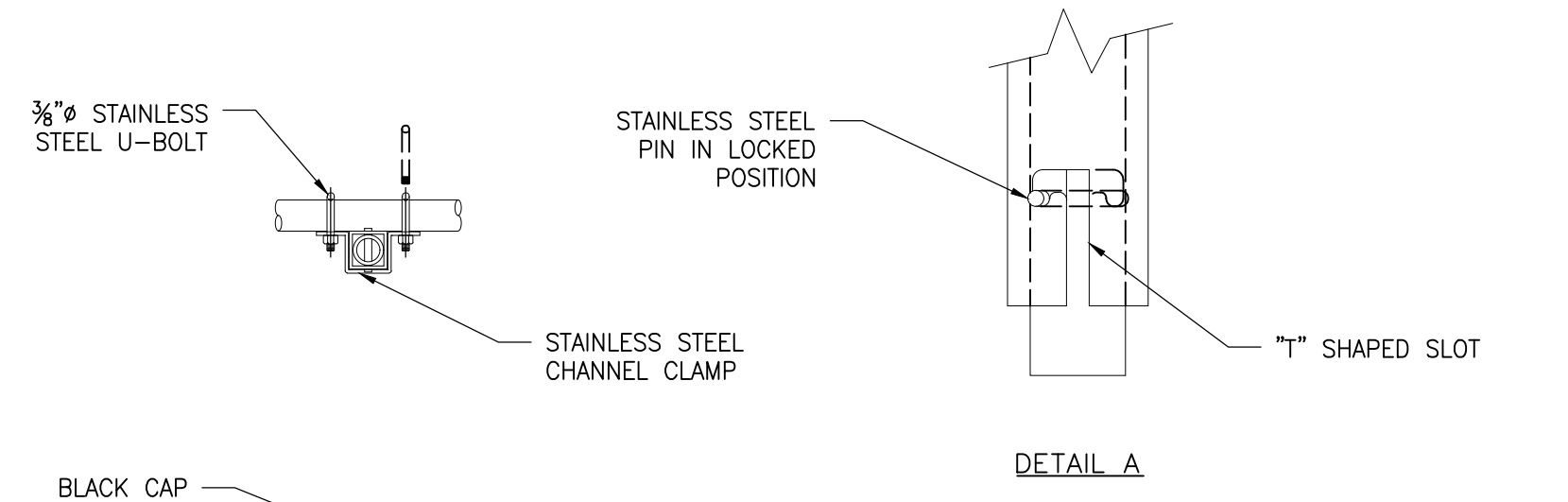
- STANDARD FEATURES:**
- ALL ALUMINUM CONSTRUCTION
 - PERFORATED SCREENING STYLE
 - EXTRUDED ALUMINUM GUIDERAIL SYSTEM
 - OTHER SIZES AVAILABLE
 - MODEL B4A STAINLESS STEEL BASKET AVAILABLE
 - STAINLESS STEEL PIPE RAIL SYSTEM AVAILABLE
 - 3 YEAR GUARANTEE

HP HALLIDAY PRODUCTS
www.HallidayProducts.com
Phone 800-298-1027
Fax 407-298-4534
Sales@HallidayProducts.com

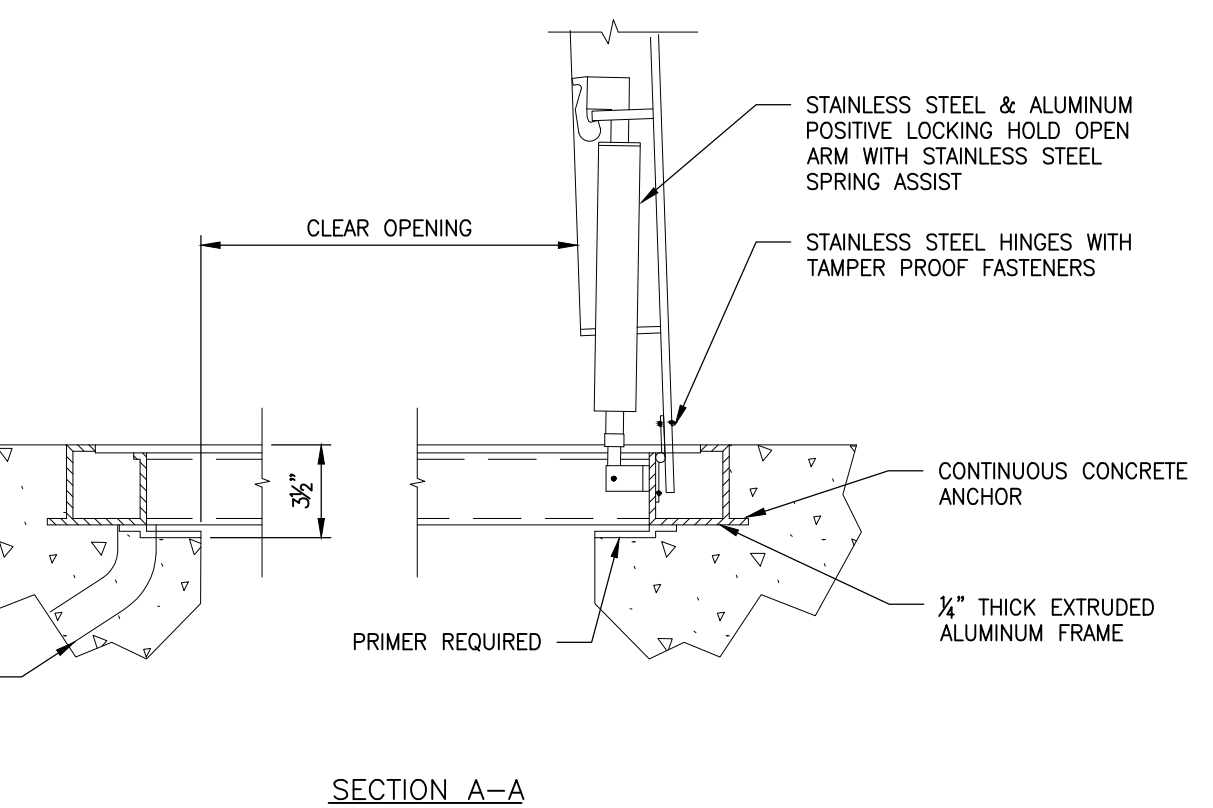
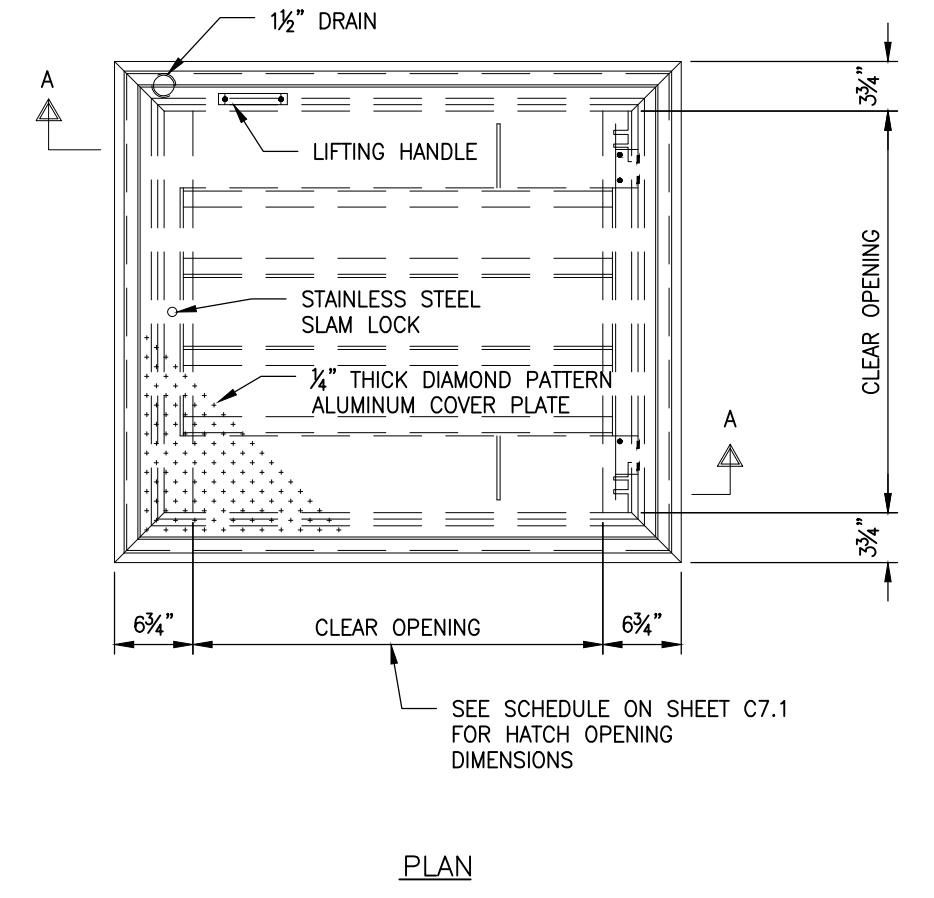
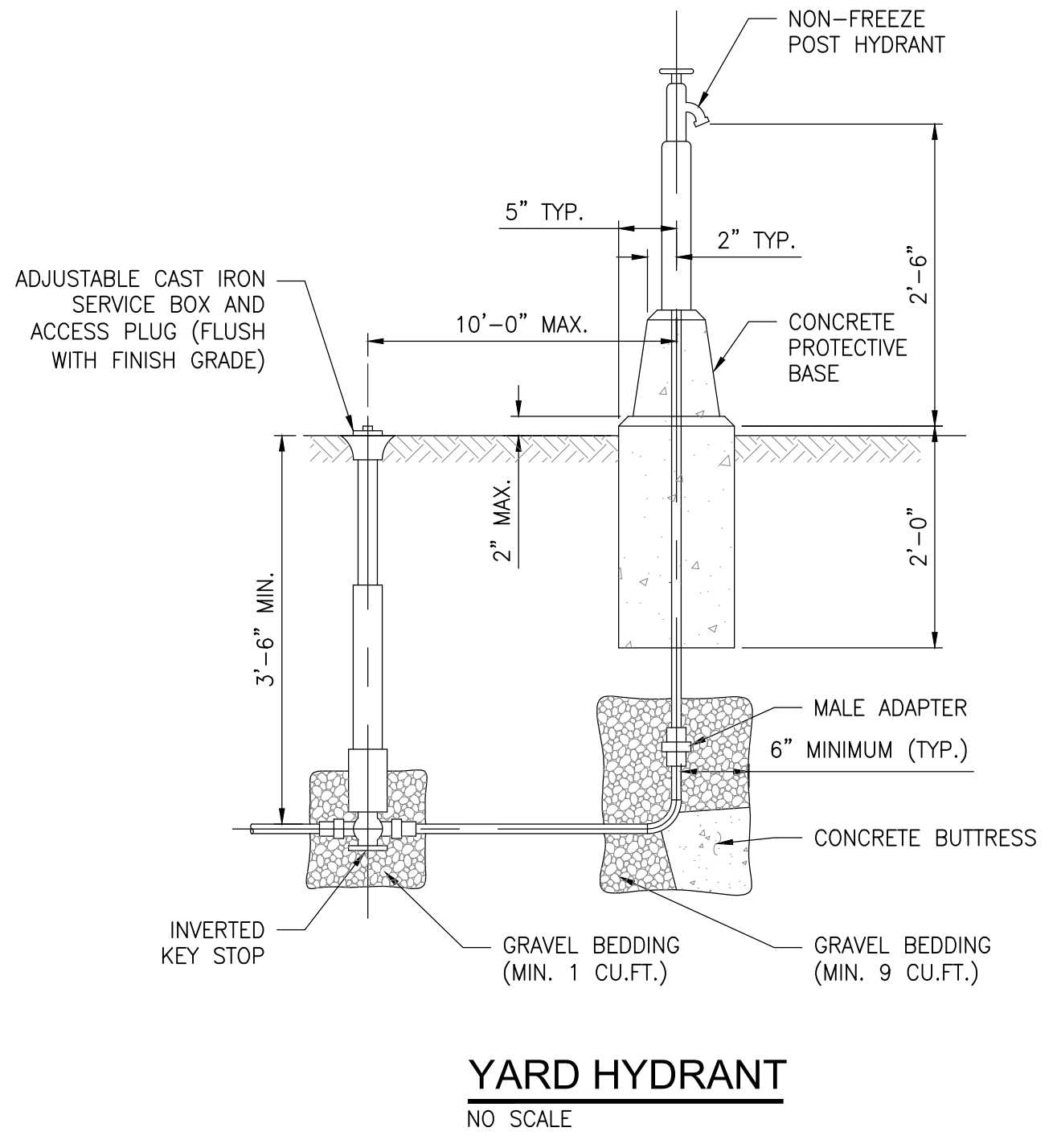
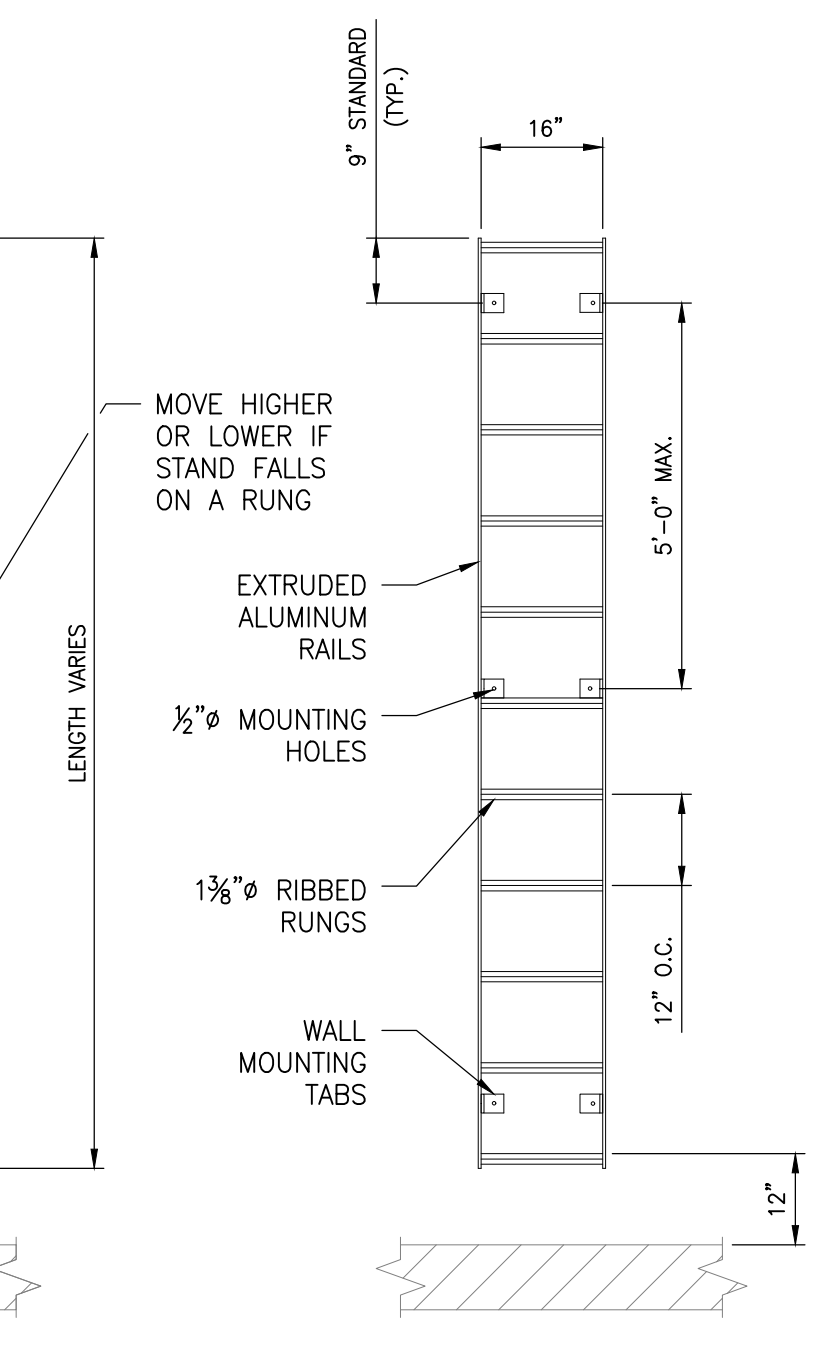
- REQUIRED INFORMATION:**
- BASIN DIAMETER
 - RAIL LENGTH
 - LENGTH OF STANDOFF (IF REQUIRED)



- NOTES**
1. CONCRETE COLLAR IS ONLY USED IF AIR RELEASE MANHOLE IS NOT IN PAVEMENT. ALL CONCRETE SHALL BE POURED AGAINST UNDISTURBED EARTH.
 2. ROUTE TONING WIRE OUTSIDE OF ARV AND PROVIDE TONING WIRE VALVE BOX ADJACENT TO ARV STRUCTURE. SEE DETAIL S-4.07.



LADDER DETAIL
NO SCALE

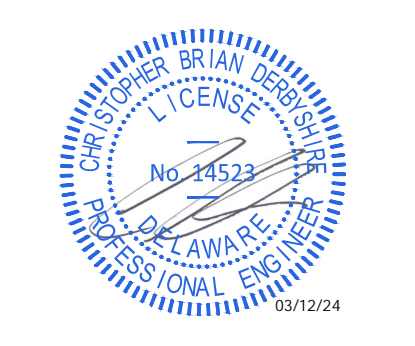


- NOTES**
1. HATCHES FOR STATIONS SHALL BE PROVIDED WITH A HASP AND A PADLOCK KEYS TO THE COUNTY SYSTEM. USE A SAFE-HATCH AS MANUFACTURED BY FLYGT.

HATCH DETAIL
NO SCALE

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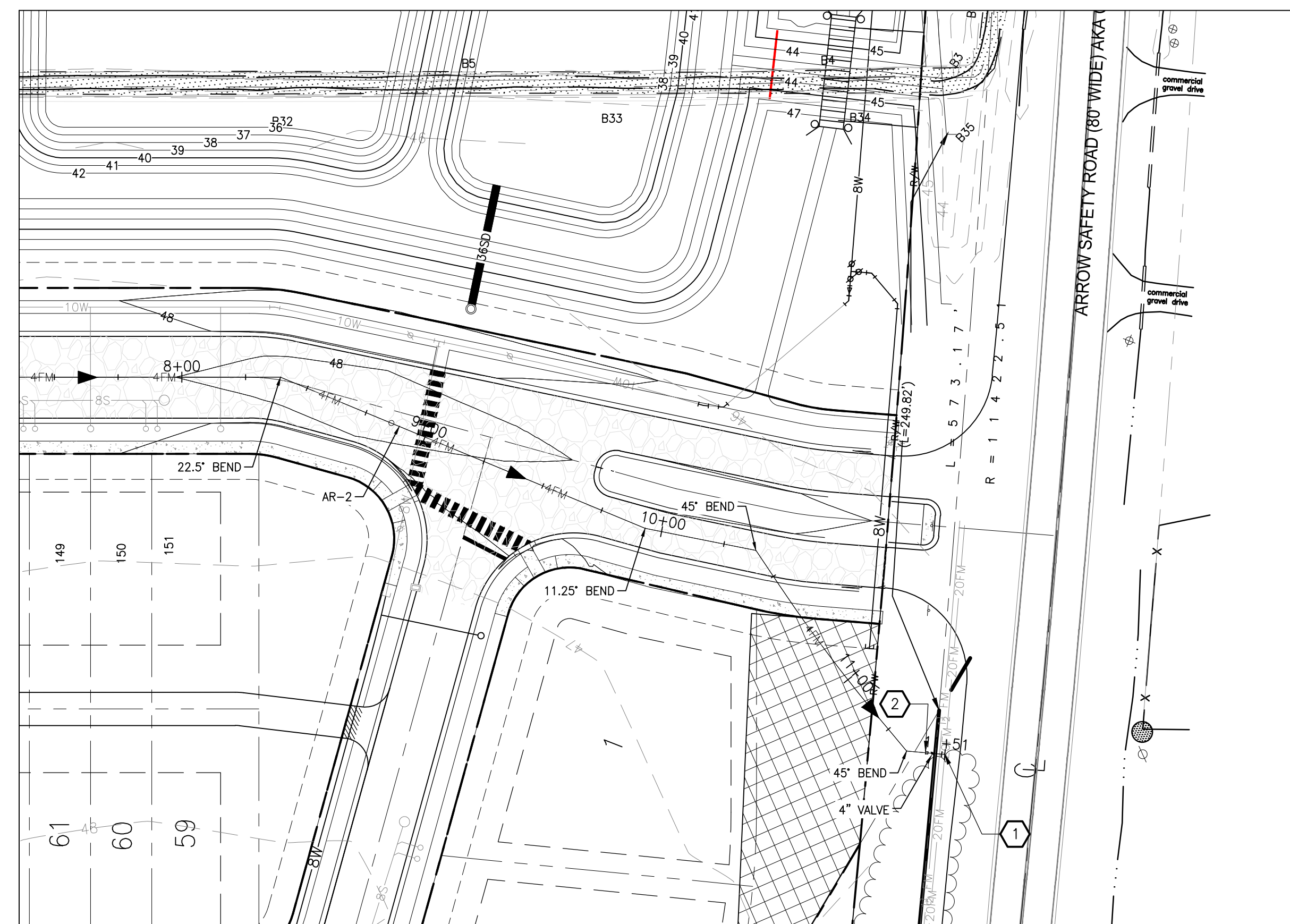
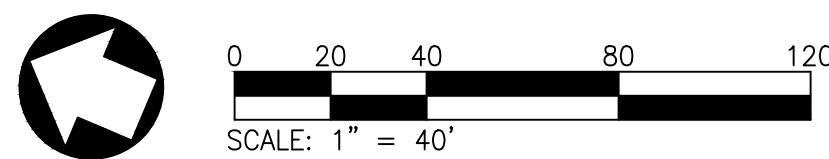
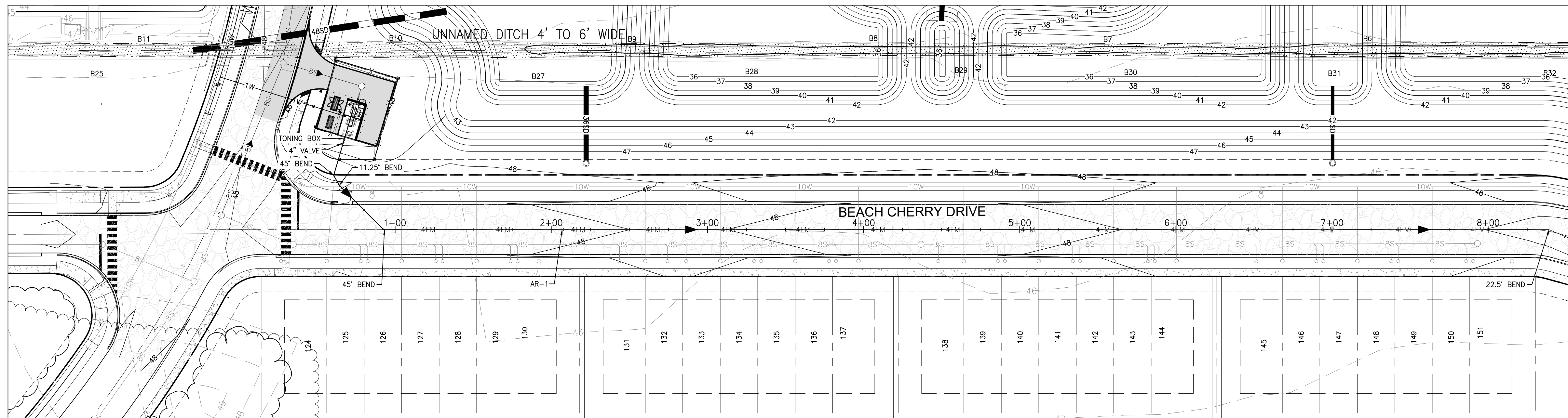


PUMP STATION DETAILS

SCALE : AS NOTED	SHEET NO.
DESIGN BY : CBD	C7.4
DRAWN BY : MMD	
CHECKED BY :	
GMB FILE : 230004	
DATE : FEB 2024	

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PEN-RED	200 INCHES (50mm)
PEN-YELLOW	200 INCHES (50mm)
PEN-BLUE	200 INCHES (50mm)
PEN-BLACK	200 INCHES (50mm)
PEN-MAGENTA	200 INCHES (50mm)
PEN-CYAN	200 INCHES (50mm)
PEN-GRAY	200 INCHES (50mm)
PEN-BROWN	200 INCHES (50mm)
PEN-GREEN	200 INCHES (50mm)
PEN-PINK	200 INCHES (50mm)
PEN-ORANGE	200 INCHES (50mm)
PEN-VIOLET	200 INCHES (50mm)
PEN-LIGHT BLUE	200 INCHES (50mm)
PEN-LIGHT GREEN	200 INCHES (50mm)
PEN-LIGHT PINK	200 INCHES (50mm)
PEN-LIGHT ORANGE	200 INCHES (50mm)
PEN-LIGHT VIOLET	200 INCHES (50mm)
PEN-LIGHT BLUE-GRAY	200 INCHES (50mm)
PEN-LIGHT GREEN-GRAY	200 INCHES (50mm)
PEN-LIGHT PINK-GRAY	200 INCHES (50mm)
PEN-LIGHT ORANGE-GRAY	200 INCHES (50mm)
PEN-LIGHT VIOLET-GRAY	200 INCHES (50mm)
PEN-LIGHT BLUE-GRAY	200 INCHES (50mm)
PEN-LIGHT GREEN-GRAY	200 INCHES (50mm)
PEN-LIGHT PINK-GRAY	200 INCHES (50mm)
PEN-LIGHT ORANGE-GRAY	200 INCHES (50mm)
PEN-LIGHT VIOLET-GRAY	200 INCHES (50mm)
PEN-LIGHT BLUE-GRAY	200 INCHES (50mm)
PEN-LIGHT GREEN-GRAY	200 INCHES (50mm)
PEN-LIGHT PINK-GRAY	200 INCHES (50mm)
PEN-LIGHT ORANGE-GRAY	200 INCHES (50mm)
PEN-LIGHT VIOLET-GRAY	200 INCHES (50mm)



CONSTRUCTION NOTES

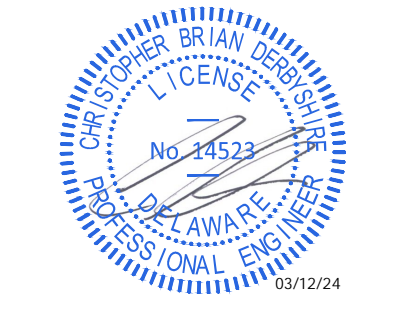
- 1 CONNECT 4" FORCE MAIN TO EXISTING 20" FORCE MAIN. PROVIDE 4" ISOLATION PLUG VALVE AT TIE-IN POINT IF ONE IS NOT PRESENT.
- 2 FURNISH AND INSTALL TONING WIRE BOX. SEE DETAIL SHEET C7.4.

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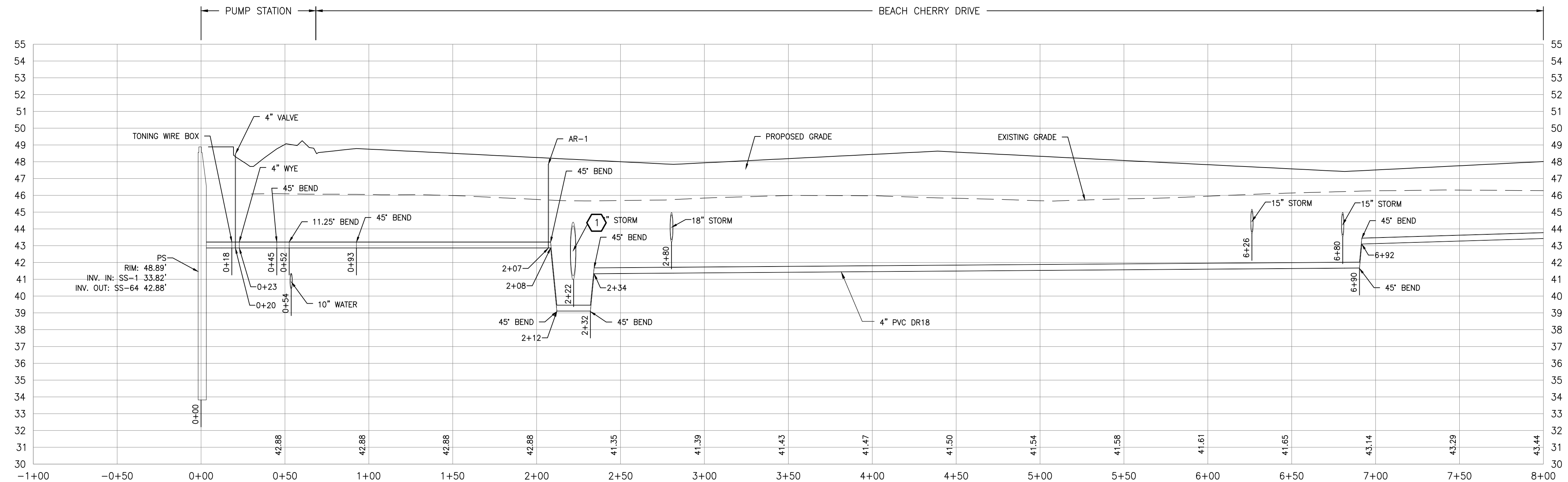


**FORCE MAIN
 PLAN**

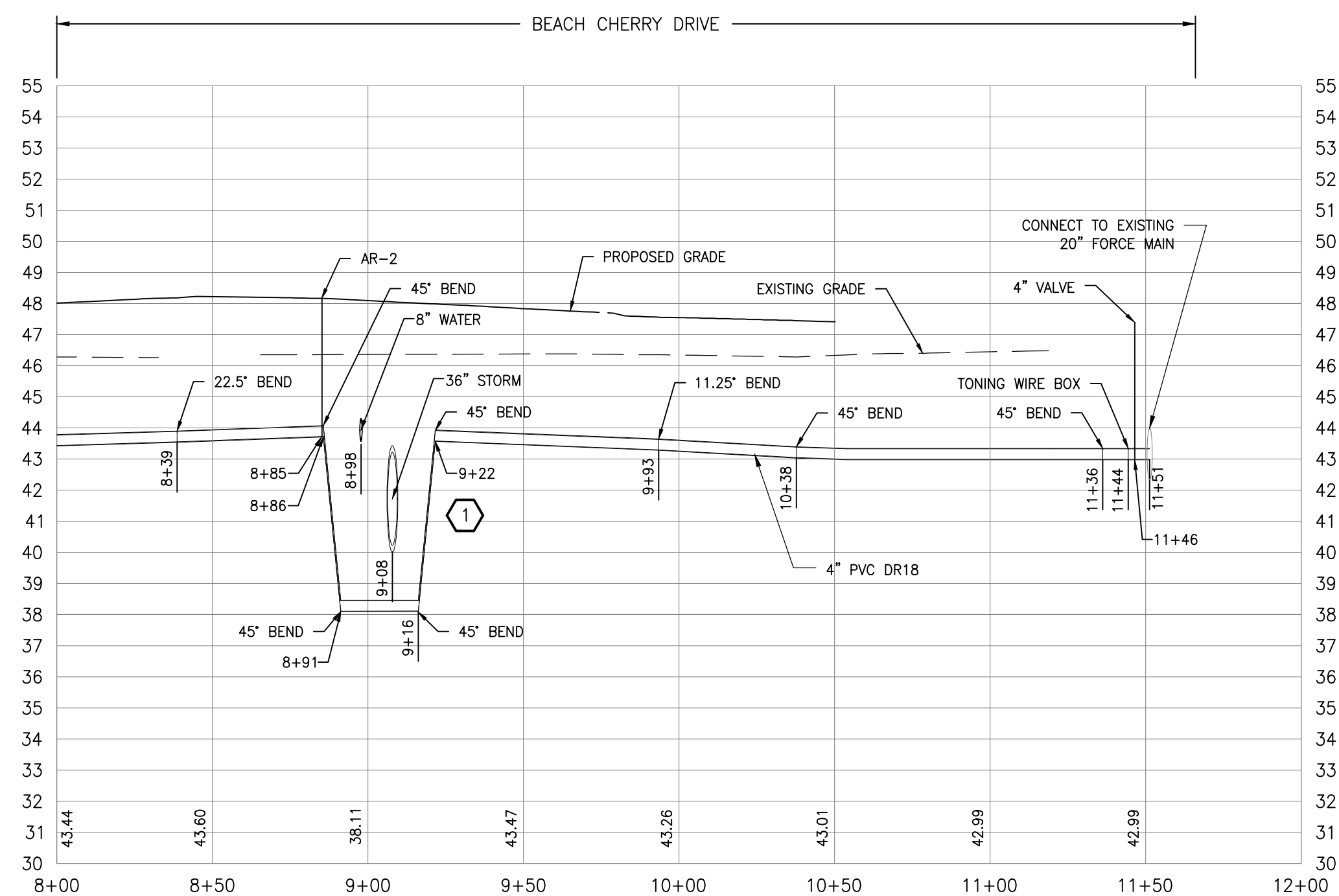
SCALE : 1" = 40'	SHEET NO.
DESIGN BY : CBD	C7.5
DRAWN BY : DLB	
CHECKED BY :	
GMB FILE : 230004	
DATE : FEB 2024	

P:\Projects\2023\230004 oaks at georgetown\workbooks\Drawings\working\sets\Pump Station\C7.5 Force Main Plan.dwg, 3/12/2024, Matthew M. Ditrich
 PLOT CODE: PFM-CON, 014 INCHES (35mm), PEN-YELLOW, 007 INCHES (18mm)
 PLOT CODE: PFM-MEDT, 027 INCHES (70mm), PEN-BLUE, 020 INCHES (50mm)
 PLOT CODE: PFM-WIDE, 039 INCHES (100mm), PEN-WHITE, 039 INCHES (100mm)

NO.	REVISIONS	DATE



PROFILE OF FORCE MAIN (1)
VERTICAL SCALE: 1"=4'
HORIZONTAL SCALE: 1"=40'



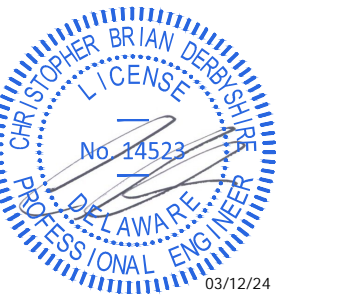
PROFILE OF FORCE MAIN (2)
VERTICAL SCALE: 1"=4'
HORIZONTAL SCALE: 1"=40'

CONSTRUCTION NOTES

- 1 PER TOWN OF GEORGETOWN STANDARDS THERE SHALL BE A MINIMUM VERTICAL SEPARATION OF 12 INCHES BETWEEN ANY STORM DRAIN PIPE AND ANY WATER MAIN OR SEWER MAIN. IF 12 INCHES CANNOT BE MAINTAINED, A MINIMUM OF SIX (6) INCHES IS REQUIRED AND PROVISIONS SHALL BE MADE ACCEPTABLE TO THE TOWN OF GEORGETOWN FOR PROPERLY ENCASING THE PIPE IN CONCRETE.

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**FORCE MAIN
 PROFILE**

SCALE : 1" = 40'	SHEET NO. : C7.6
DESIGN BY : CBD	
DRAWN BY : DLB	
CHECKED BY :	
GMB FILE : 230004	
DATE : FEB 2024	

Project: 2023\2004 oaks at georgetown townships\Drawings\working sets\Pump Station\216 Force Main Profiles, 3/12/2024, Matthew M. Dirich

PEN1-RED .001 INCHES (1.0mm) PEN2-YELLOW .001 INCHES (1.0mm) PEN3-GREEN .010 INCHES (1.25mm) PEN4-BLUE .020 INCHES (2.0mm) PEN5-WHITE .030 INCHES (2.0mm)

PLOT CODE P1M-COM .014 INCHES (1.25mm)

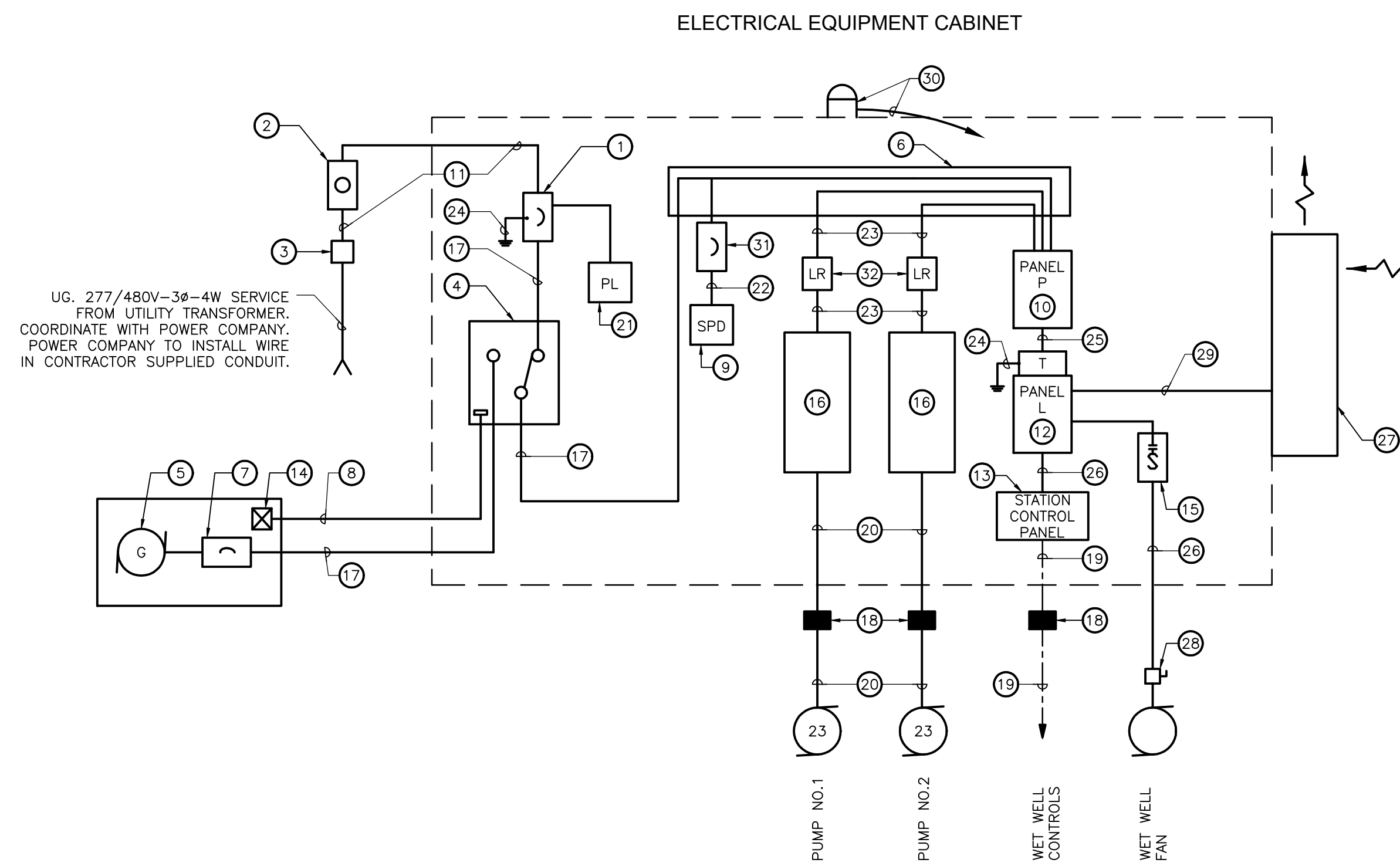
DATE

REVISIONS

NO.

DRAWING NOTES

- 1 SERVICE-RATED MAIN CIRCUIT BREAKER - 480V, 3P, 200A TRIP, NEMA 1. BOND NEUTRAL AND GROUND.
- 2 200A METER SOCKET. COORDINATE WITH UTILITY PROVIDING SERVICE.
- 3 200A, 3P, NF SERVICE-RATED DISCONNECT, NEMA 3R ENCLOSURE
- 4 AUTOMATIC TRANSFER SWITCH - 3P, 225A. NEMA 12.
- 5 80 KW, 100 KVA, 277/480V, 3 PHASE, 4 WIRE NATURAL-GAS GENERATOR SET.
- 6 8" x 8" WIRE TROUGH
- 7 GENERATOR CIRCUIT BREAKER - 3P, 200A. REMOVE NEUTRAL AND GROUND BONDING STRAP.
- 8 EXTEND 4 #12 - 3/4" (CONTROL) TO TRANSFER SWITCH.
- 9 SURGE-PROTECTIVE DEVICE (SPD).
- 10 PANEL P - 277/480V, 3Ø, 4 WIRE (SEE SCHEDULE, THIS SHEET)
- 11 4 #4/0 - 4" C.
- 12 PANEL L - 25 KVA MINI-POWERZONE - 480-120/240V, 1Ø, 3 WIRE (SEE SCHEDULE, THIS SHEET).
- 13 STATION CONTROL PANEL (SCP)
- 14 GENERATOR CONTROL PANEL
- 15 SIZE 0 STARTER IN NEMA 1 ENCLOSURE.
- 16 VARIABLE FREQUENCY DRIVE - SEE SPECIFICATIONS
- 17 4 #4/0 AND 1 #4 GRD - 2 1/2" C
- 18 SEAL FITTINGS (TYP.)
- 19 MANUFACTURER'S CABLES FOR REDUNDANT HIGH WATER AND LOW WATER FLOATS AND TRANSDUCER - INSTALL IN SEPARATE 1 1/2" C
- 20 CABLE SUPPLIED WITH PUMP - INSTALL IN SEPARATE 2 1/2" C
- 21 PHASE LOSS MODULE (PL)
- 22 4 #6 AND 1 #10 GRD - 1 1/4" C.
- 23 3 #8 AND 1 #8 GRD - 1" C.
- 24 GROUND PER NEC
- 25 3 #2 AND 1 #8 GRD - 1 1/4" C.
- 26 2 #10 AND 1 #10 GRD - 3/4" C.
- 27 SIDE-MOUNT FULL-SIZE AIR CONDITIONER WITH HEATER. 12,000 BTU/HR MINIMUM. HOFFMAN MODEL NUMBER T501226G156 OR APPROVED EQUAL.
- 28 2P, 30A DISCONNECT, NEMA 3R ENCLOSURE.
- 29 3 #12 AND 1 #12 GRD - 3/4" C.
- 30 STATION ALARM LIGHT. 2 #12 - 3/4" C TO STATION CONTROL PANEL. FIXTURE SHALL BE COOPER CROUSE-HINDS CATALOG NO. VXH15GP WITH RED POLY-CARBONATE GLOBE AND GUARD OR EQUAL.
- 31 60A TRIP, 3P, NEMA 1 INDIVIDUALLY ENCLOSED CIRCUIT BREAKER
- 32 5% LINE REACTOR



PANEL SCHEDULE: L 120/240v - 1 PHASE, 3 WIRE - SOLID NEUTRAL									
CIRC. NO.	CIRCUIT DESIGNATION	BREAKER		KVA	CIRC. NO.	CIRCUIT DESIGNATION	BREAKER		KVA
		POLE	CALIB				POLE	CALIB	
1	CABINET LIGHTS	1	20	0.1	2	GENERATOR CONTROL PANEL	1	20	1.0
3	*CABINET RECEPTACLES	1	20	0.4	4	STATION CONTROL PANEL	1	30	1.0
5	POLE LIGHT	1	20	0.2	6	FLOW METER	1	20	0.5
7	GENERATOR BLOCK HEATER	1	20	1.5	8	STATION ALARM LIGHT	1	20	0.1
9	SPACE AND BUS	1	-	-	10	CABINET AC UNIT (AC-1)	2	20	2.5
11	SPACE AND BUS	1	-	-	12	-	-	-	-
13	WET WELL FAN (SF-1)	1	30	1.9	14	GENERATOR BATTERY CHARGER	1	20	1.0
15	SPARE	1	20	1.0	16	SPARE	1	20	1.0
17	SPACE AND BUS	1	-	-	18	SPACE AND BUS	1	-	-
19	SPARE	1	20	1.0	20	SPARE	1	20	1.0
21	SPARE	1	20	1.0	22	SPACE AND BUS	1	-	-
23	SPACE AND BUS	1	-	-	24	SPACE AND BUS	1	-	-
LOAD		CONN.	%	DEM'D	NOTES:				
LIGHTS		0.3	100	0.3	A = (KVx1000)/V 63.3 AMPS				
RECEPTACLES		0.4	100	0.4	MAIN BREAKER: PRIMARY 100A, 2P - SECONDARY 125A, 2P				
MOTORS		4.7	80	3.8	ENCLOSURE TYPE: 25 KVA MINI POWER - ZONE NEMA 3R (N0)				
SPARE		3.0	50	1.5	ENCLOSURE LOCATION: ELECTRICAL EQUIPMENT CABINET				
MISCELLANEOUS		9.2	80	7.4	* - INDICATES GFI BREAKER				
HEAT		1.5	100	1.5	MINIMUM SHORT CIRCUIT INTERRUPTION RATING: 18,000 AIC				
TOTAL		19.1		14.8	FED FROM: PANEL P CIRCUIT 7,9				

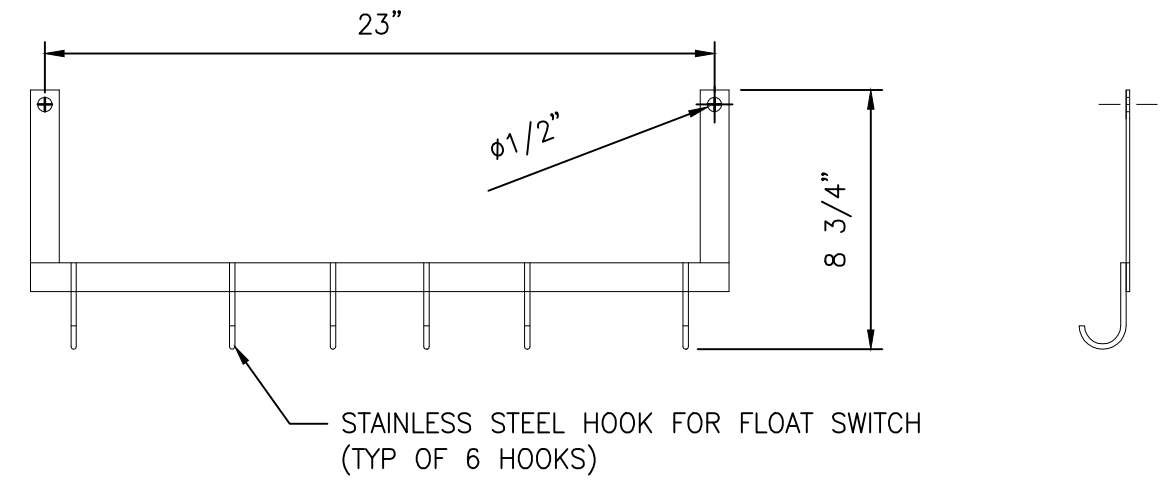
PANEL SCHEDULE: P 277/480v - 3 PHASE, 4 WIRE - SOLID NEUTRAL									
CIRC. NO.	CIRCUIT DESIGNATION	BREAKER		KVA	CIRC. NO.	CIRCUIT DESIGNATION	BREAKER		KVA
		POLE	CALIB				POLE	CALIB	
1	PUMP NO.1 (23HP)	3	70	27.1	2	PUMP NO.2 (23HP)	3	70	27.1
3	-	-	-	-	4	-	-	-	-
5	-	-	-	-	6	-	-	-	-
7	PANEL L (25KVA MINI-POWER ZONE)	2	100	25.0	8	SPARE	3	60	-
9	-	-	-	-	10	-	-	-	-
11	SPACE AND BUS	1	-	-	12	-	-	-	-
13	SPACE AND BUS	1	-	-	14	SPACE AND BUS	1	-	-
15	SPACE AND BUS	1	-	-	16	SPACE AND BUS	1	-	-
17	SPACE AND BUS	1	-	-	18	SPACE AND BUS	1	-	-
LOAD		CONN.	%	DEM'D	NOTES:				
LIGHTS		0.0	100	0.0	A = (KVx1000)/V 136 AMPS				
RECEPTACLES		0.0	100	0.0	MAIN BREAKER: PRIMARY 200A, 3P				
LARGEST MOTOR		27.1	175	47.43	ENCLOSURE TYPE: NEMA 1				
OTHER MOTORS		27.1	150	40.65	ENCLOSURE LOCATION: ELECTRICAL EQUIPMENT CABINET				
MISCELLANEOUS		25.0	100	25.0	* - INDICATES GFI BREAKER				
HEAT		0.0	100	0.0	MINIMUM SHORT CIRCUIT INTERRUPTION RATING: 25,000 AIC				
TOTAL		79.2		113.1	FED FROM: ATS				

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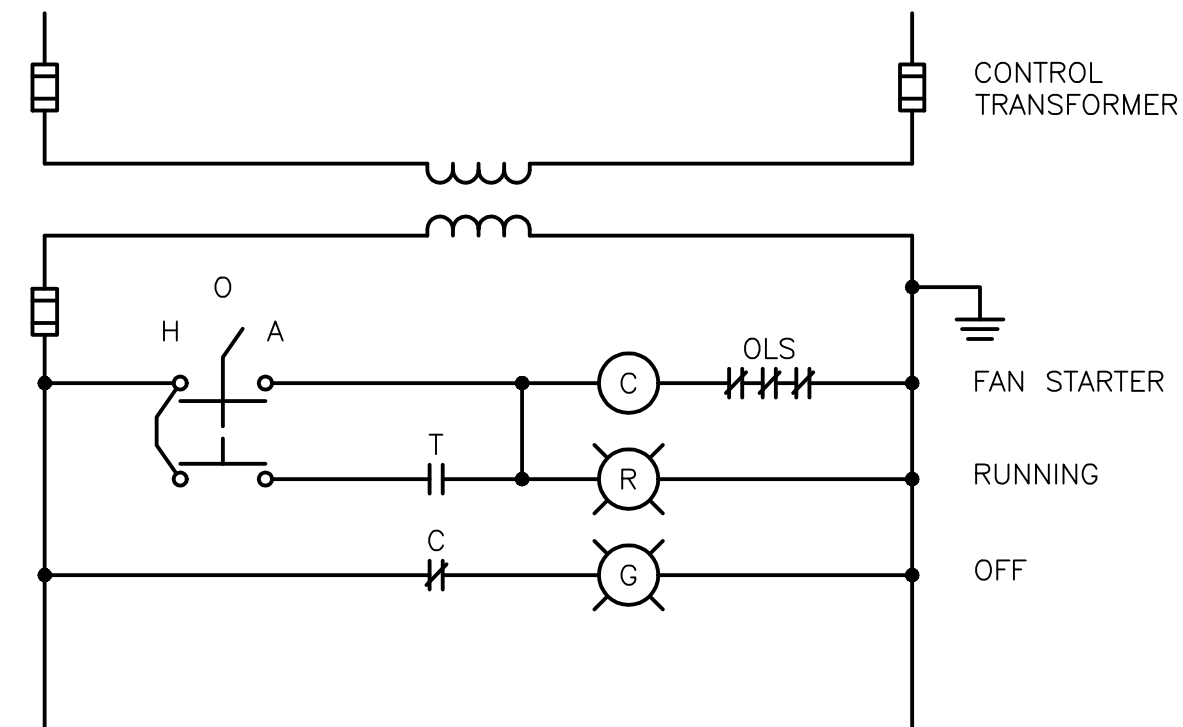
**ONE-LINE
DIAGRAM AND
PANEL
SCHEDULES**

SCALE : AS NOTED	SHEET NO.
DESIGN BY : RAR	E1.1
DRAWN BY : RAR	
CHECKED BY :	
GMB FILE : 230004	
DATE : FEB 2024	



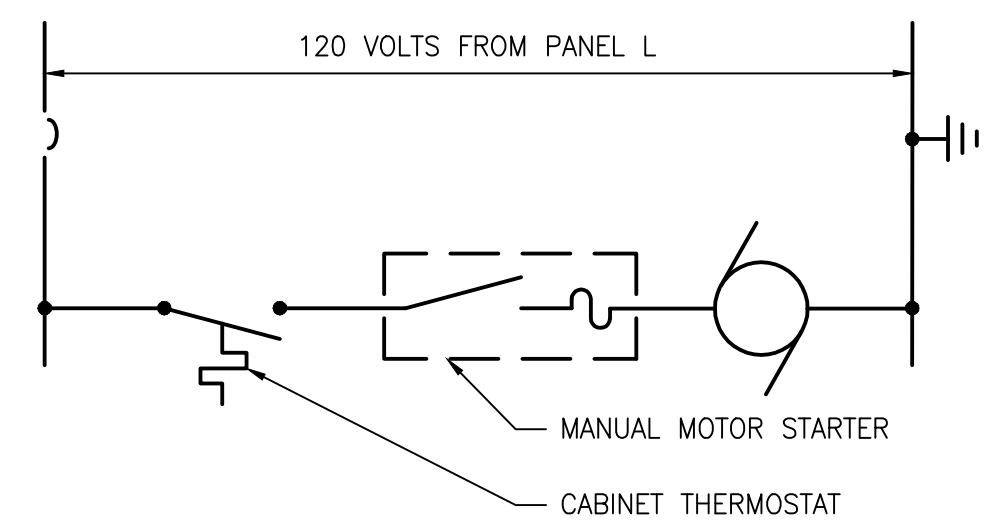
CABLE HOLDER

NO SCALE
NOTE: CABLE HOLDER SHALL BE TYPE-316 STAINLESS STEEL.

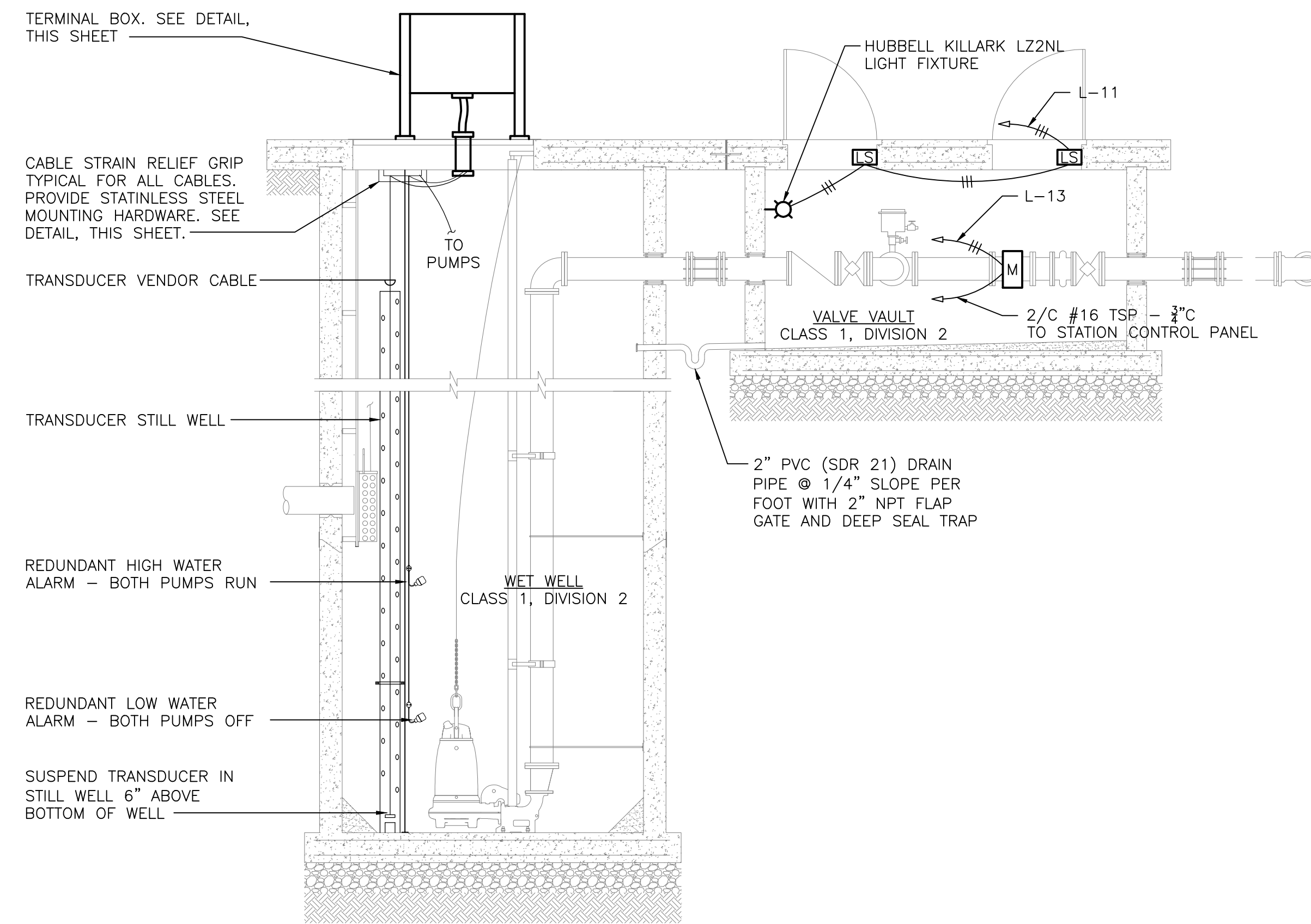


WET WELL FAN CONTROL DIAGRAM

NOTE: FAN TO RUN CONTINUOUS.

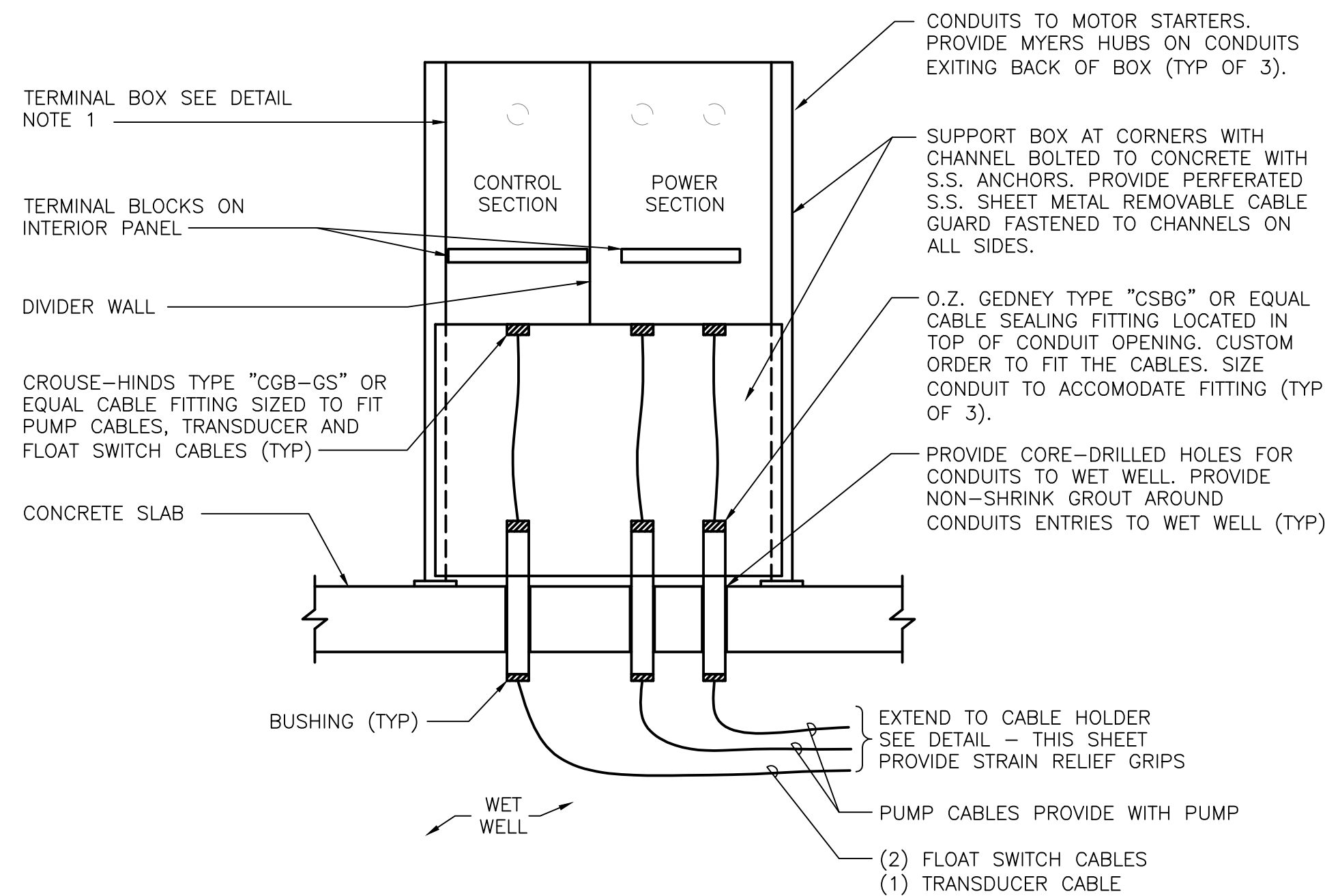


CABINET SUPPLY FAN CONTROL DIAGRAM (TYPICAL)



PUMP STATION SECTION

NO SCALE
NOTE: SEE SHEET E1.1 FOR TERMINAL BOX ORIENTATION.
FOR CONSTRUCTION OF WET WELL, REFER TO SHEET 11.2.



TERMINAL BOX DETAIL

NO SCALE

DETAIL NOTE:
1 TERMINATE VENDOR CONDUCTORS ON TERMINAL BLOCKS ON INTERNAL PANEL. PROVIDE CONDUCTORS TO TERMINATIONS IN PUMP CONTROL PANEL AND STARTERS FROM TERMINAL BLOCKS. PROVIDE SQUARE-D CLASS 9080 TYPE "LB" DISTRIBUTION BLOCKS WITH PLASTIC COVERS FOR MOTOR CABLES. PROVIDE CLASS 9080, TYPE "G" TERMINAL BLOCK ASSEMBLIES FOR CONTROL FLOAT SWITCH AND TRANSDUCER CABLES (TYP).

PLOT CODE: PLOT-DATE: PLOT-SCALE: PLOT-UNIT: PLOT-ANG: PLOT-ORI: PLOT-PROJ: PLOT-APP: PLOT-REV: PLOT-NO: PLOT-REV: PLOT-NO:

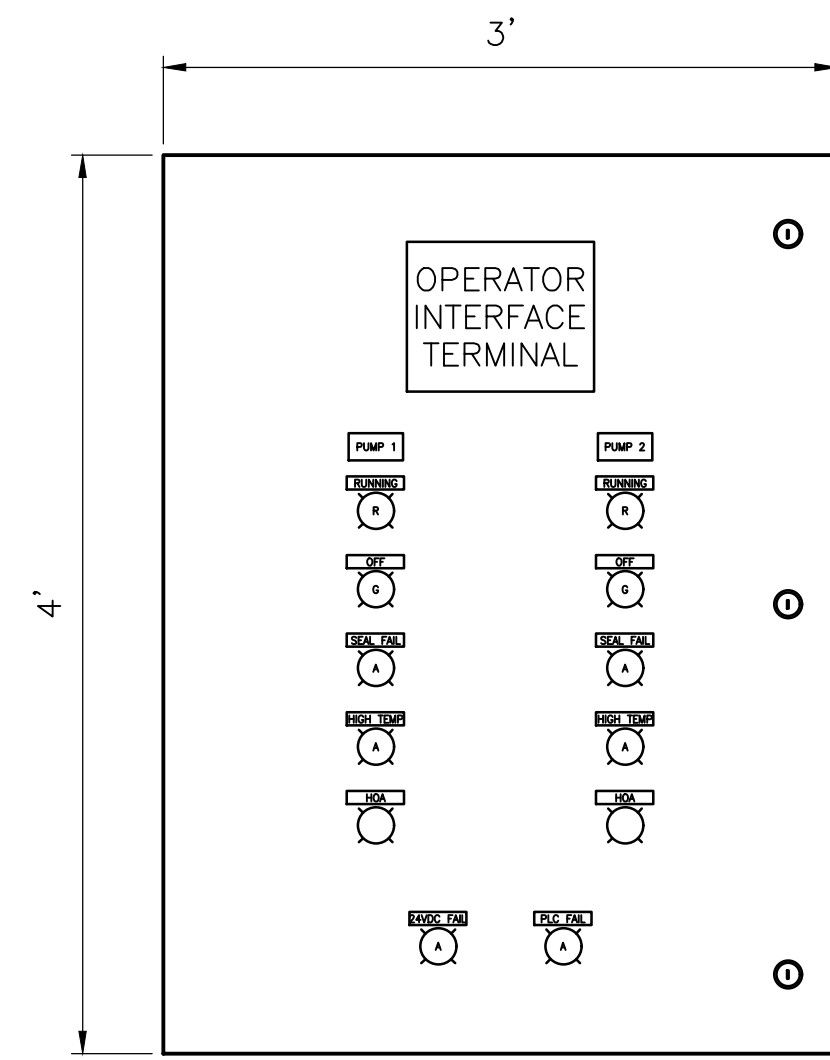
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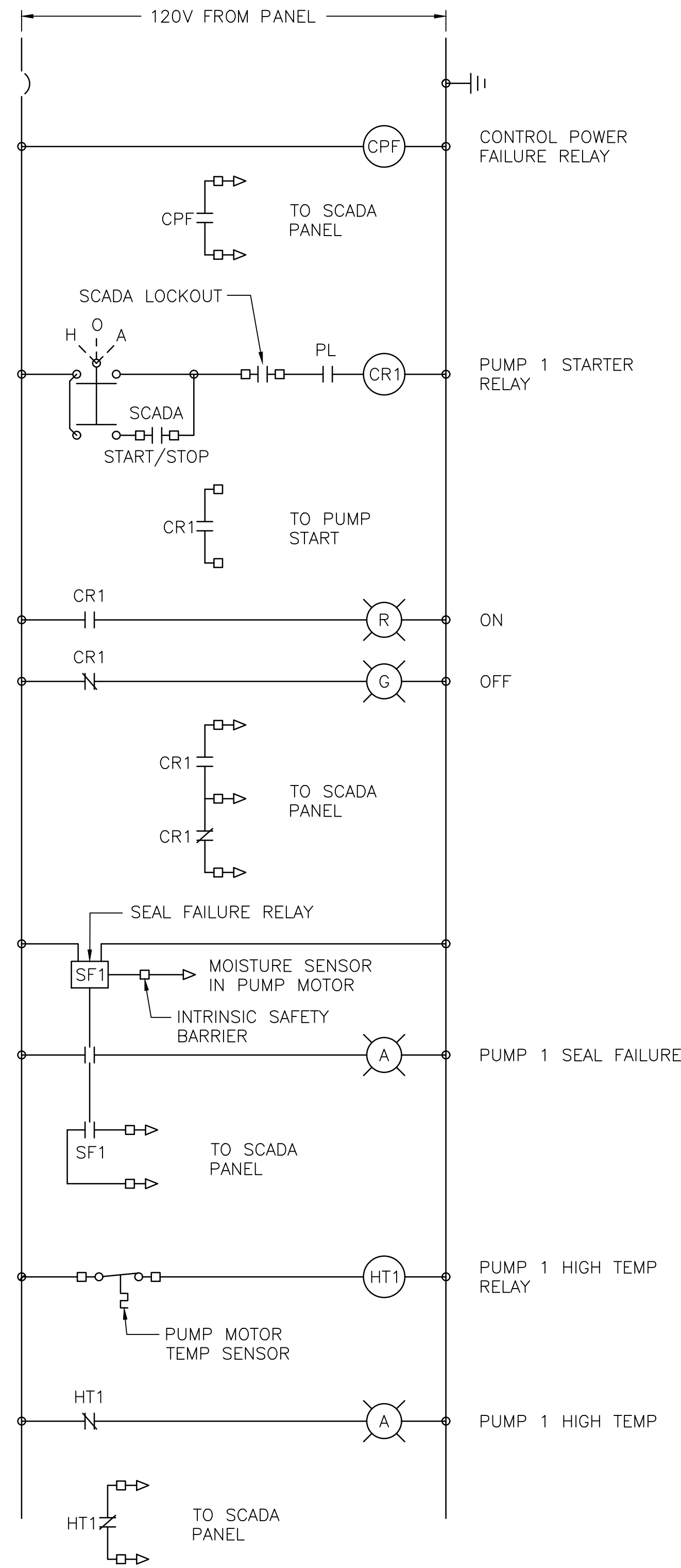
ELECTRICAL
 SCHEMATICS AND
 DETAILS

SCALE	SHEET NO.
DESIGN BY : RAR	E1.2
DRAWN BY : RAR	
CHECKED BY :	
GMB FILE : 230004	DATE : FEB 2024



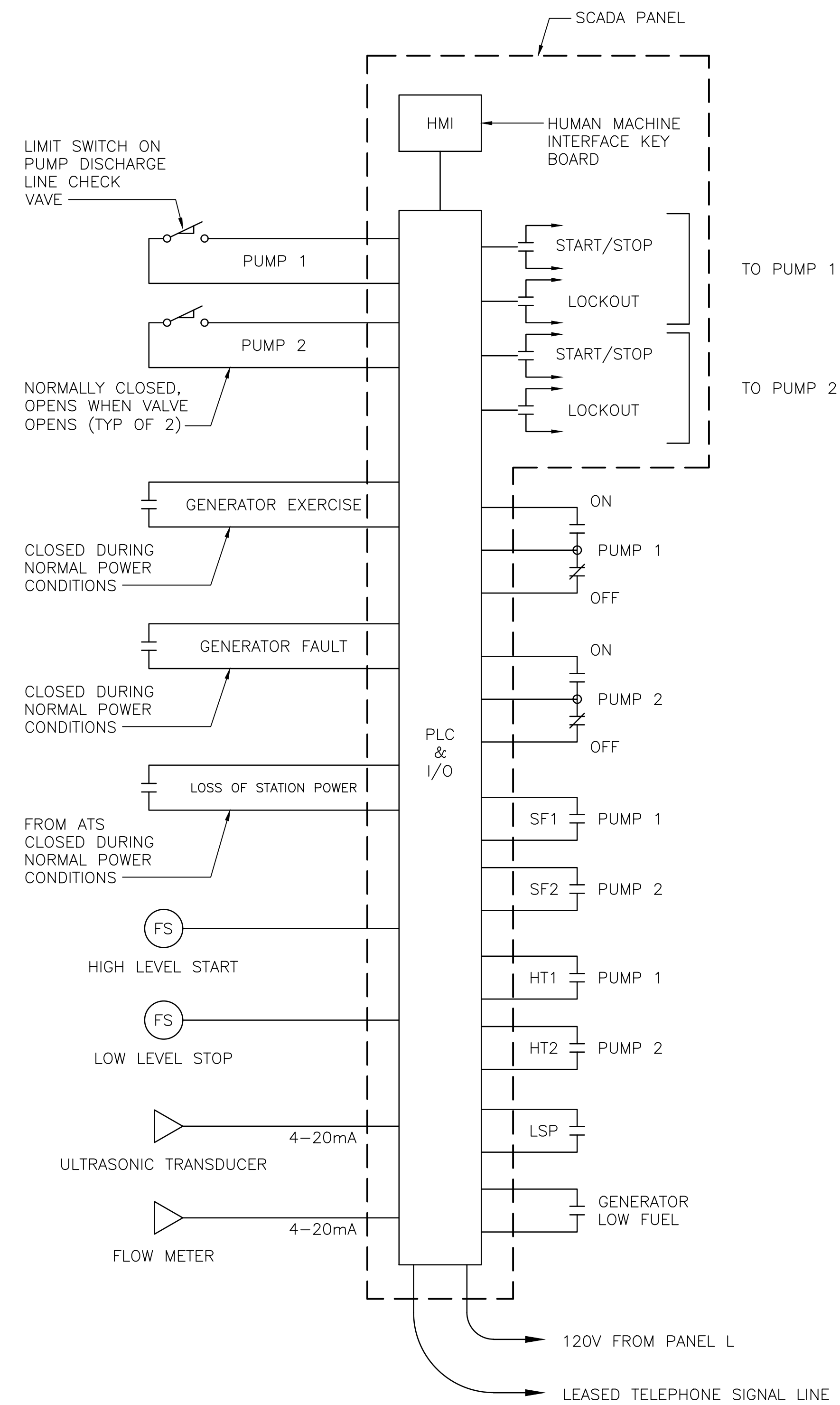
STATION CONTROL PANEL (SCP)

NO SCALE



STATION CONTROL PANEL DIAGRAM

TYPICAL OF TWO PUMPS



SCADA PANEL CONNECTION DIAGRAM

ALL FLOATS TO BE VIA INTRINSICALLY SAFE BARRIER

PLOT CODE : P100-RED : .001 INCHES (1.00mm) : PEN-RED : .001 INCHES (1.00mm)
 P100-YELLOW : .001 INCHES (1.00mm) : PEN-YELLOW : .001 INCHES (1.00mm)
 P100-GREEN : .010 INCHES (1.25mm) : PEN-GREEN : .010 INCHES (1.25mm)
 P100-BLUE : .020 INCHES (2.50mm) : PEN-BLUE : .020 INCHES (2.50mm)
 P100-MAGENTA : .027 INCHES (1.70mm) : PEN-MAGENTA : .027 INCHES (1.70mm)
 P100-WHITE : .039 INCHES (1.00mm) : PEN-WHITE : .039 INCHES (1.00mm)

PRINTS ISSUED FOR: DRAWINGS STAGE	
DATE	
REVISIONS	
NO.	

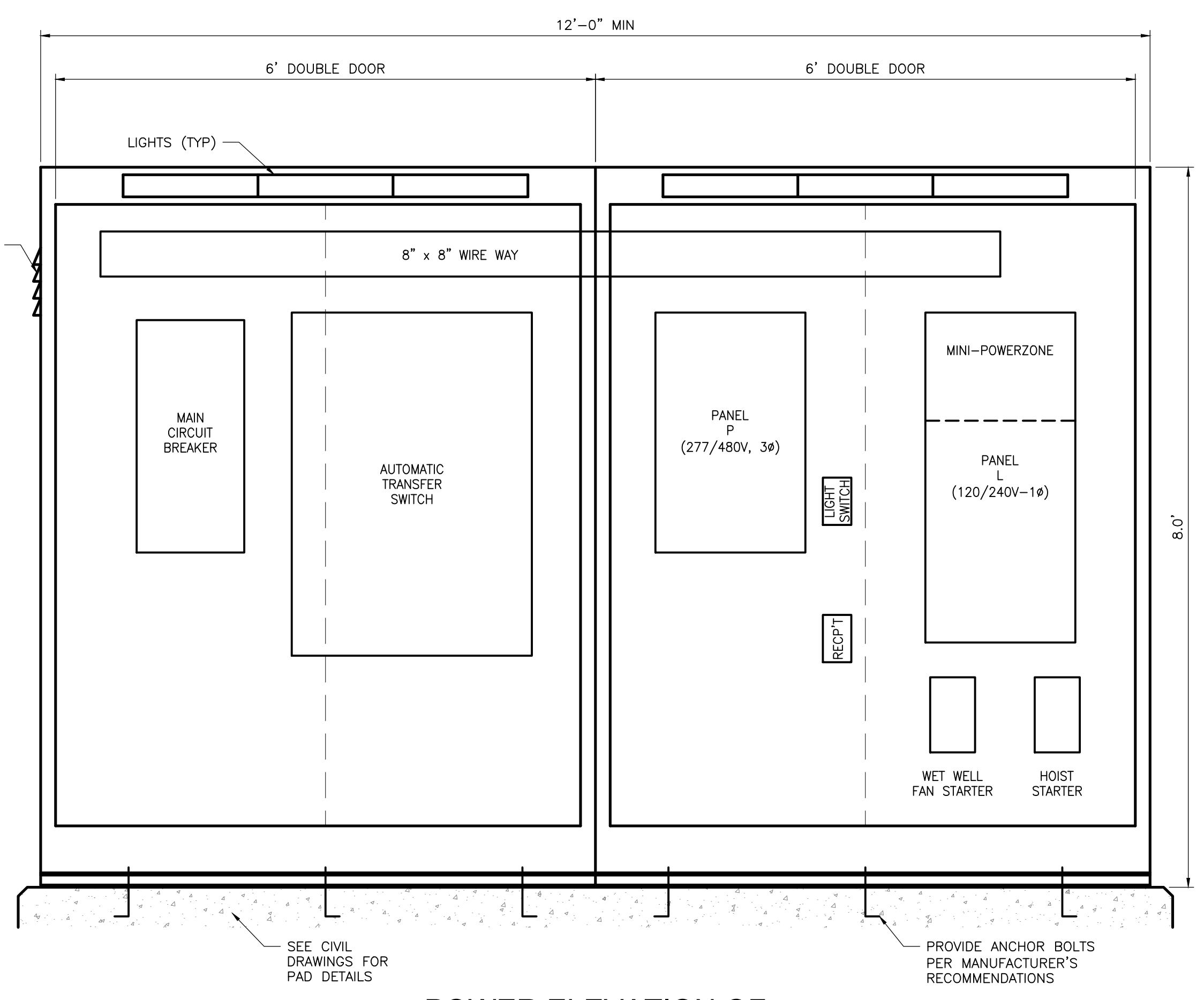
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 GEORGE, MILES & BUHR, LLC
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THE OAKS AT GEORGETOWN
 GEORGETOWN, DELAWARE

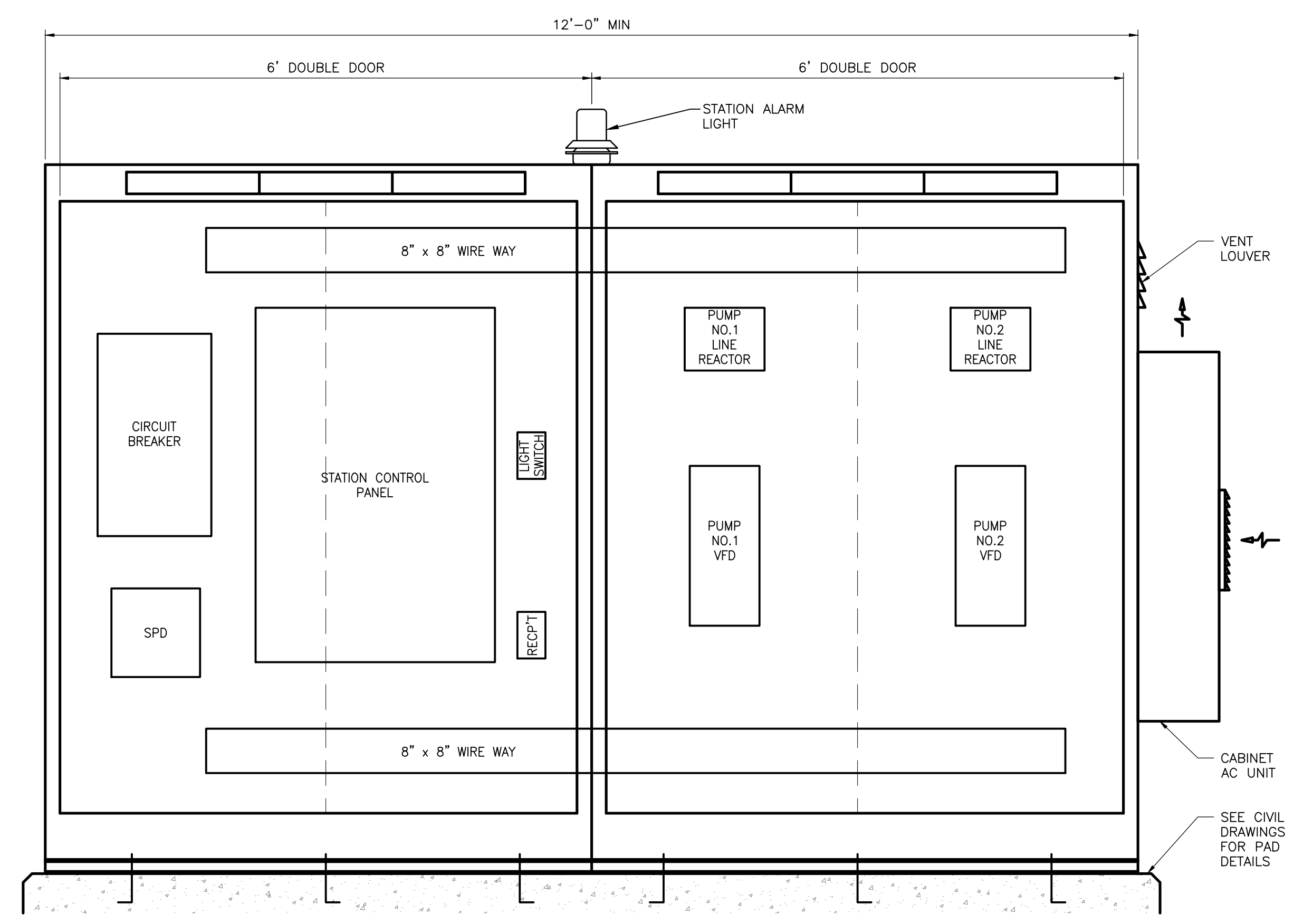
SCADA DIAGRAMS

SCALE	SHEET NO.
DESIGN BY : RAR	E1.3
DRAWN BY : RAR	
CHECKED BY :	
GMB FILE : 230004	
DATE : FEB 2024	

DATE	
REVISIONS	
NO.	

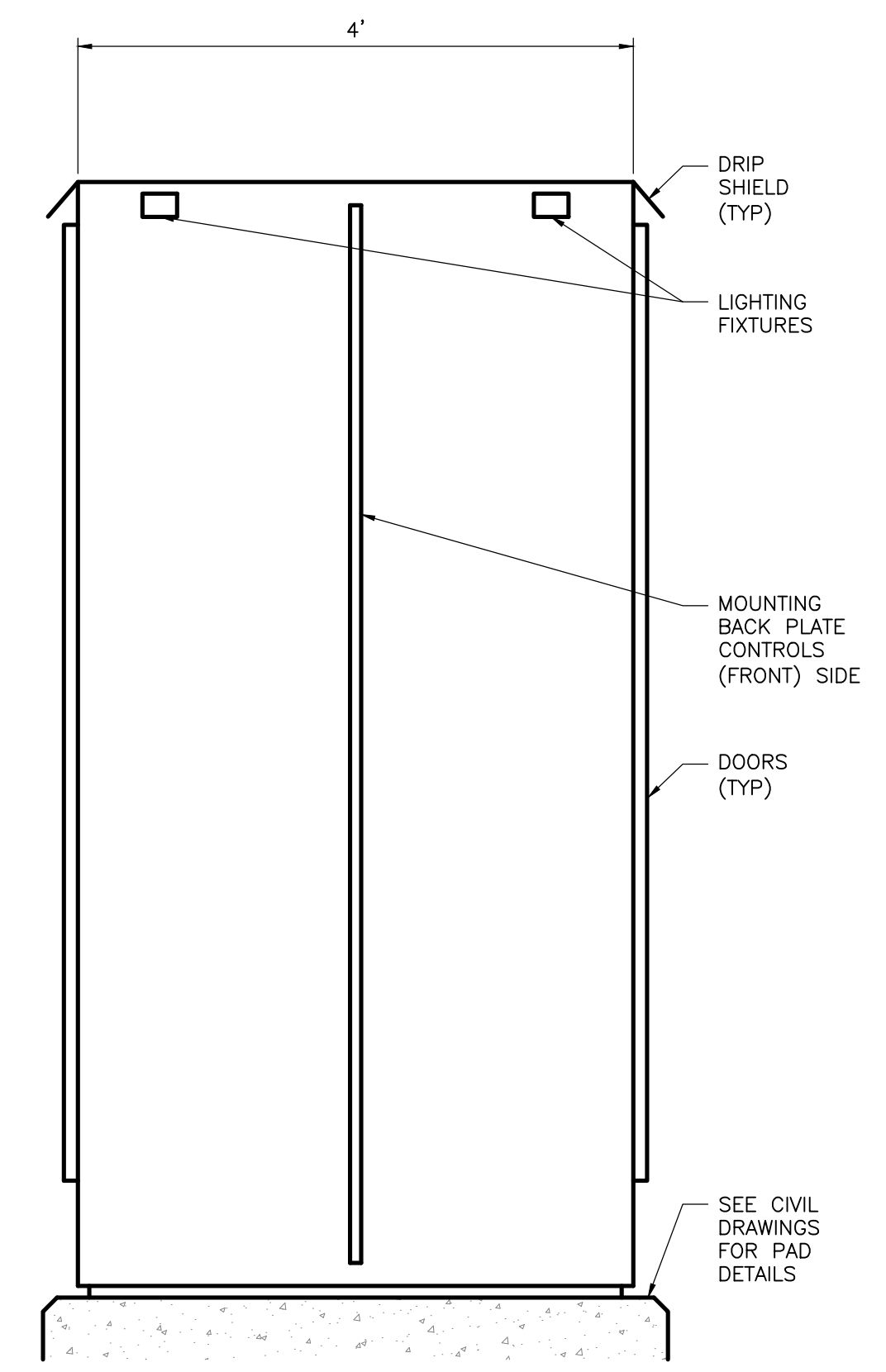


**POWER ELEVATION OF
SERVICE EQUIPMENT CABINET**



**CONTROL ELEVATION OF
SERVICE EQUIPMENT CABINET
DETAIL - ELECTRICAL EQUIPMENT CABINET**
NO SCALE

NOTE:
INTEGRATOR TO INSURE ALL EQUIPMENT DOORS CAN BE OPENED AROUND REMOVABLE DOOR CENTER SUPPORTS



**SERVICE EQUIPMENT CABINET
END VIEW**

PLOT CODE
PUN-RED : 001 INCHES (1.0mm)
PUN-YELLOW : 007 INCHES (1.8mm)
PUN-ORANGE : 010 INCHES (2.5mm)
PUN-GREEN : 014 INCHES (3.6mm)
PUN-BLUE : 020 INCHES (5.1mm)
PUN-MAGENTA : 027 INCHES (7.0mm)
PUN-WHITE : 039 INCHES (1.0mm)

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THE OAKS AT GEORGETOWN
GEORGETOWN, DELAWARE

**ELECTRICAL
CABINET DETAILS**

SCALE	SHEET NO.
DESIGN BY : RAR	E1.4
DRAWN BY : RAR	
CHECKED BY :	
GMB FILE : 230004	
DATE : FEB 2024	