

MOUNT AIRY # 1 L.L.C.

PUBLIC WATER SUPPLY SYSTEM

PARADISE TOWNSHIP, MONROE COUNTY, PENNSYLVANIA

OWNER / APPLICANT:

MOUNT AIRY #1 L.L.C.
 42 WOODLAND ROAD
 MOUNT POCONO, PA 18344

CONTACT: ROBERT McNICHOLS SR.
 (570) 947-9026

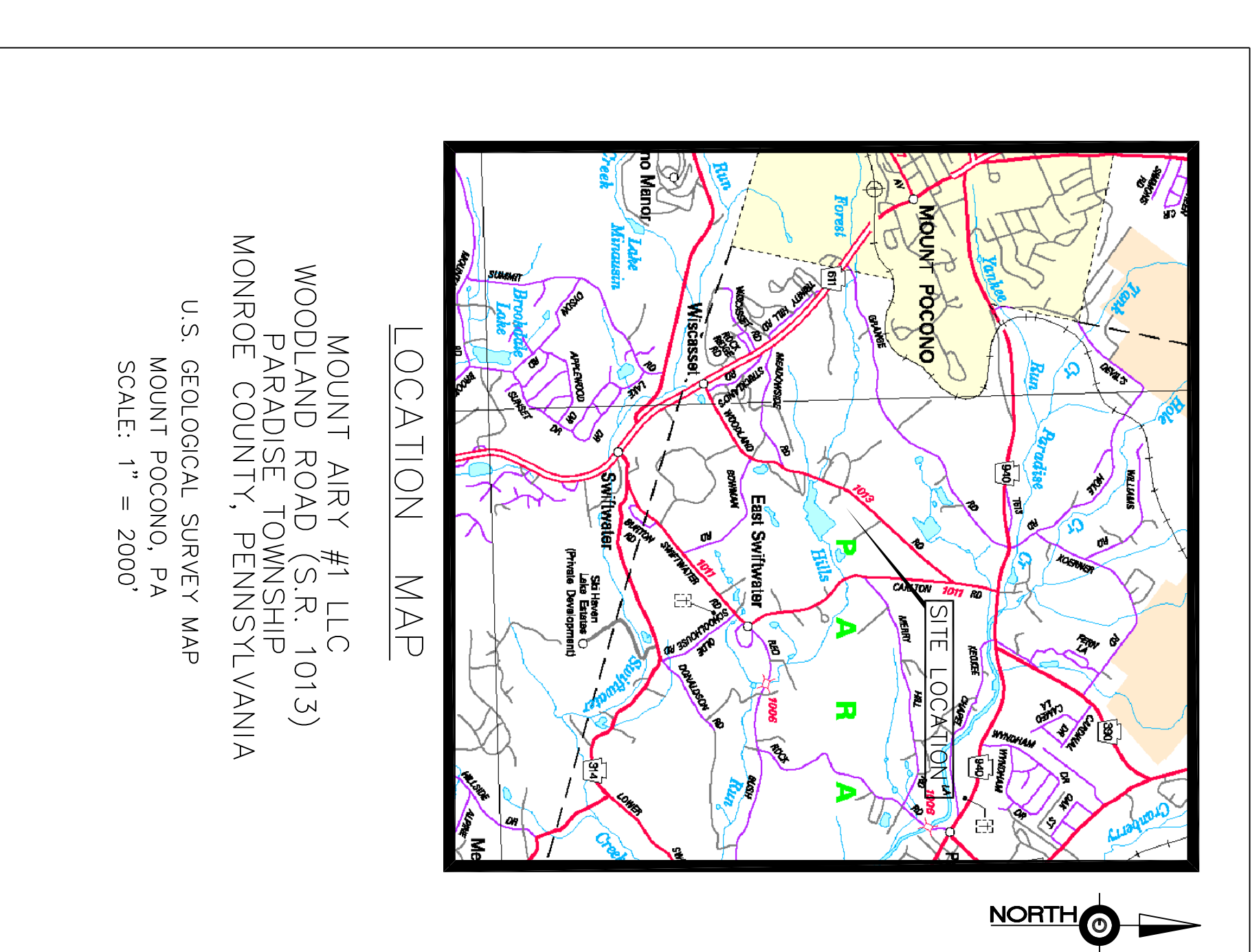
TOTAL PARCEL AREA = 888.91 ACRES

REVIEWING AGENCY

PA DEPARTMENT OF ENVIRONMENTAL PROTECTION
 NORTHEAST REGION
 2 PUBLIC SQUARE
 WILKES-BARRE, PA 18711-0790
 (570) 826-2511

INDEX OF SHEETS

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W-5	WATER METER PIT AND DETAILS
W-6	WATER STORAGE TANK
W-7	
TO	CONSTRUCTION SPECIFICATIONS
W-X	



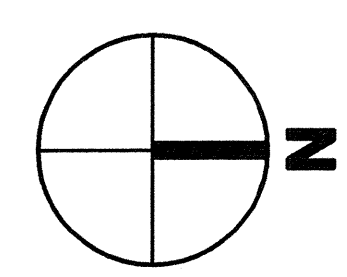
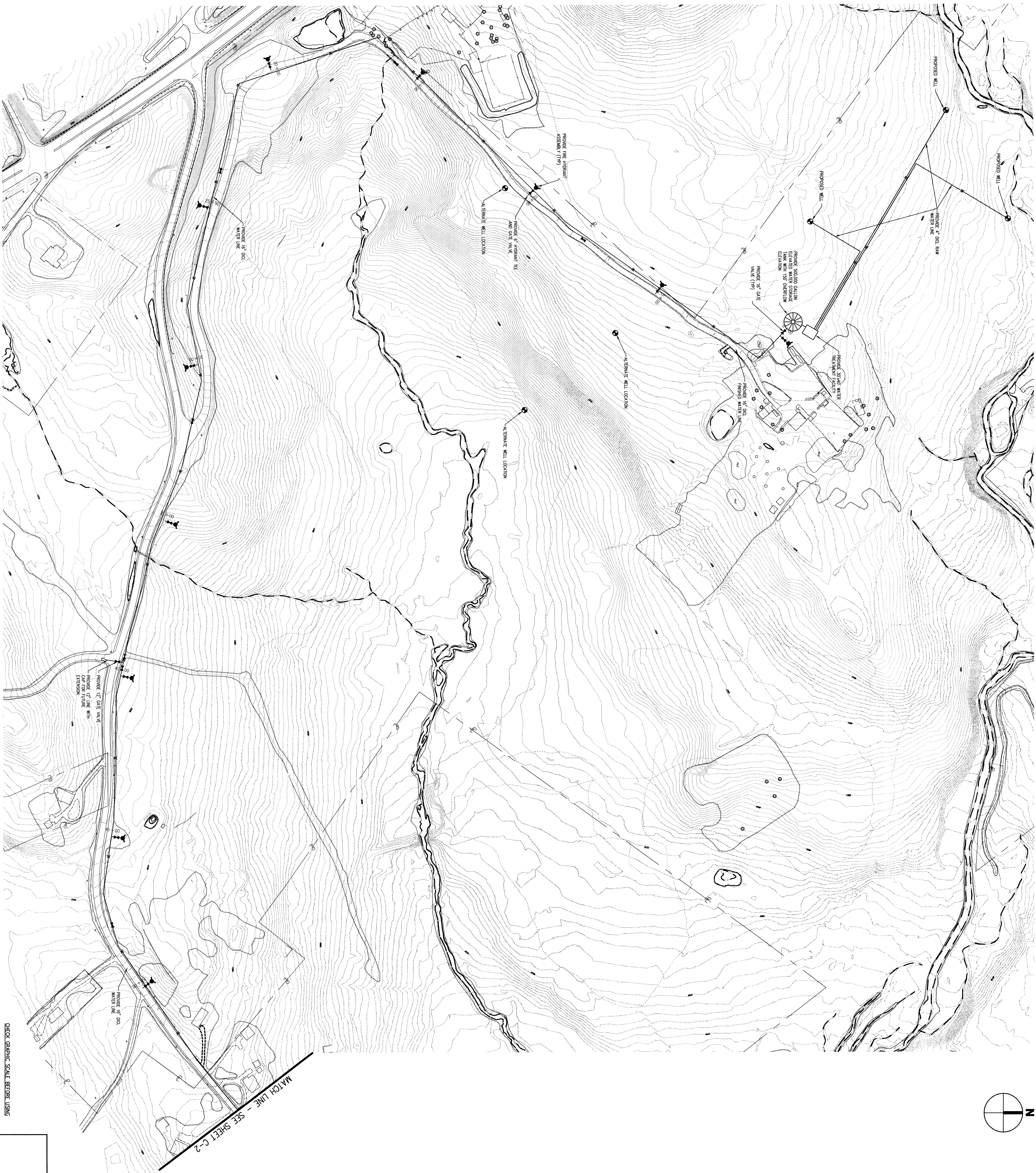
LEGEND	
	EXISTING 1 FOOT CONTOUR
	EXISTING 5 FOOT CONTOUR
	EXISTING FENCE
	EXISTING GUIDE RAIL
	EXISTING OVERHEAD ELECTRIC LINE
	EXISTING STREAM LINE
	NEW WATER LINE
	NEW 2 FOOT CONTOUR

SYMBOLS	
	NEW AIR RELEASE VALVE
	NEW FIRE HYDRANT
	NEW GATE VALVE

RECOMMENDED FOR APPROVAL BY:
 PA DEPARTMENT OF ENVIRONMENTAL PROTECTION

	Date
	Date
	Date

PUBLIC WATER SUPPLY SYSTEM			
COVER SHEET			
MOUNT AIRY #1 L.L.C.	REVISIONS	DATE	
LAND DEVELOPMENT	DESIGNED	DRAWN	
PARADISE TOWNSHIP, MONROE COUNTY	CHECKED	SCALE	
PENNSYLVANIA	DATE	JOB NO.	
87501	08-23-05	PERM	
architects - engineers - environmental scientists			sheet no.
37 north washington street, wescor, pa 18701 570-829-4200			INDEX
Quads3 87501P			

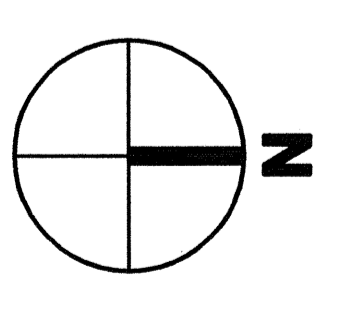
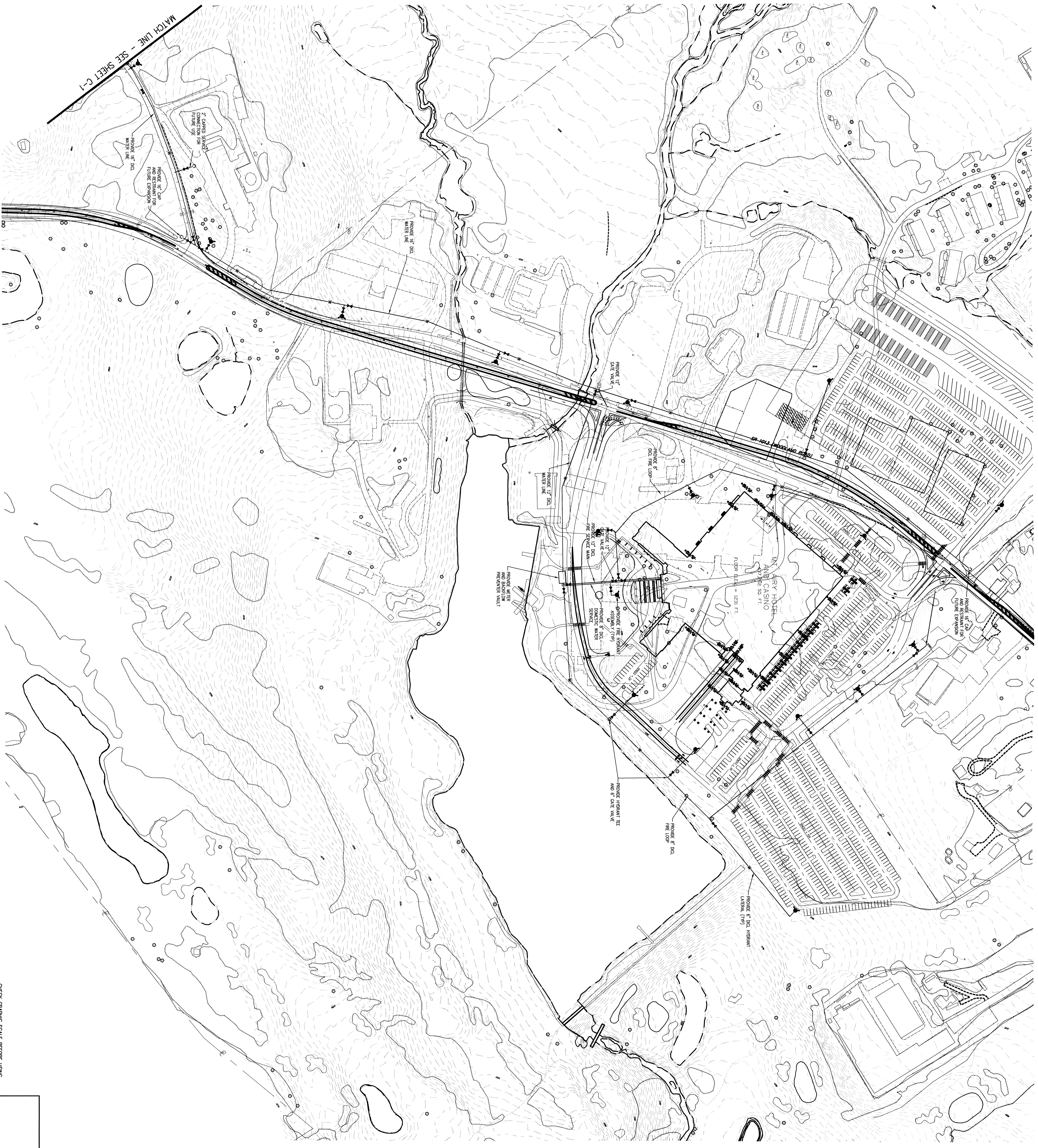


MATCH LINE - SEE SHEET C-2

PUBLIC WATER SUPPLY SYSTEM	
XXXXXX	
MOUNT ALBY #1 L.L.C.	
LAND DEVELOPMENT	
PARADISE TOWNSHIP, MONROE COUNTY	
PENNSYLVANIA	
architects - engineers - environmental scientists	sheet no.
37 north washington street, west-berry, pa 18701 570-659-4200	C-1
QUAD 3	2
DATE	2
REVISION	
DESIGNED BY	SCALE
CHECKED BY	AS SHOWN
DATE	08-01-05
PROJECT NO.	872501

JAMES P. PALIANO
REGISTERED PROFESSIONAL ENGINEER

CADFILE: 872501/04/872501.DWG



CHECK GRAPHIC SCALE BEFORE USING
 SCALE IN FEET
 0 100 200

PUBLIC WATER SUPPLY SYSTEM

XXXXXX

MOUNT ATRY #1 L.L.C.

LAND DEVELOPMENT

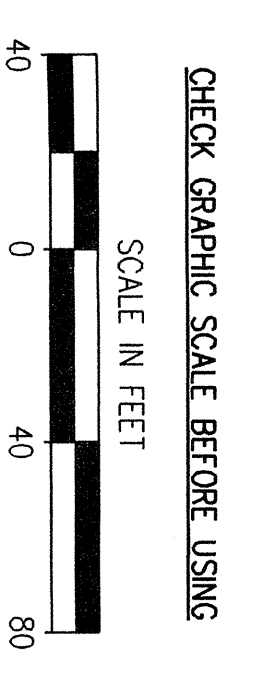
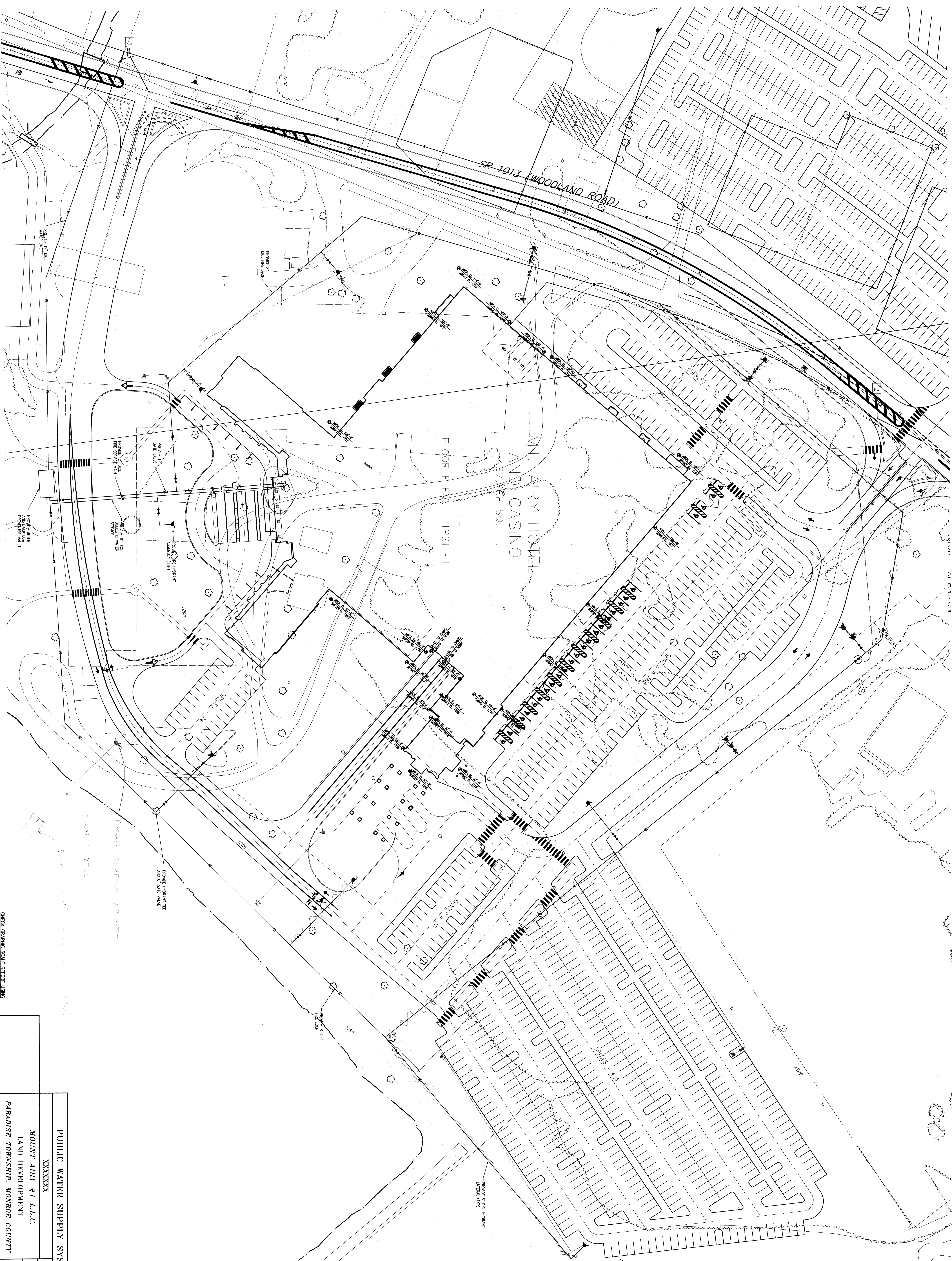
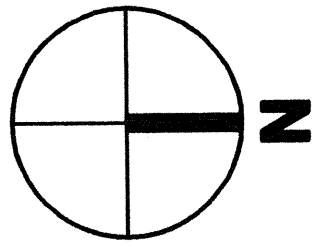
PARADISE TOWNSHIP, MONROE COUNTY

PENNSYLVANIA

architects - engineers - environmental scientists

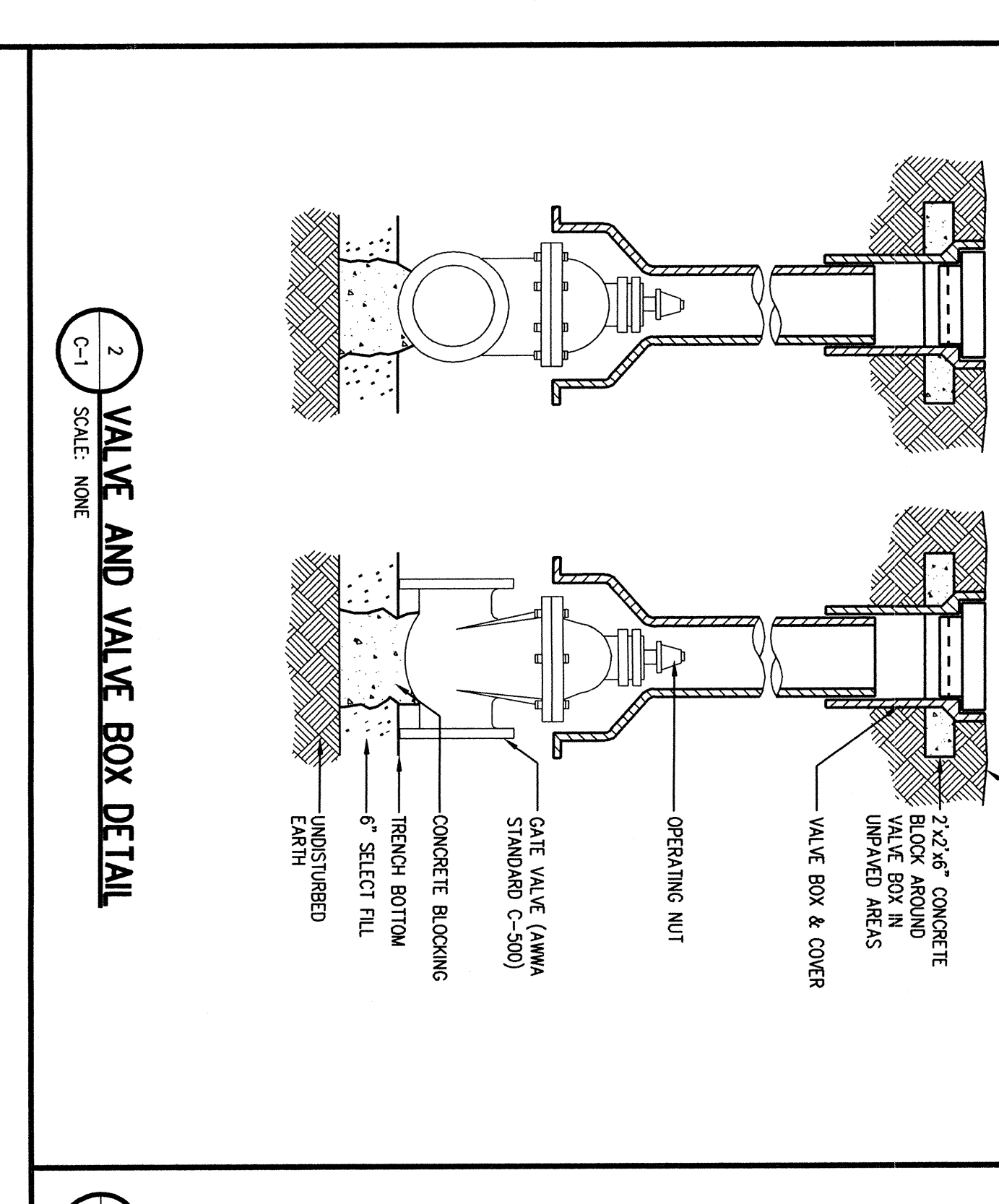
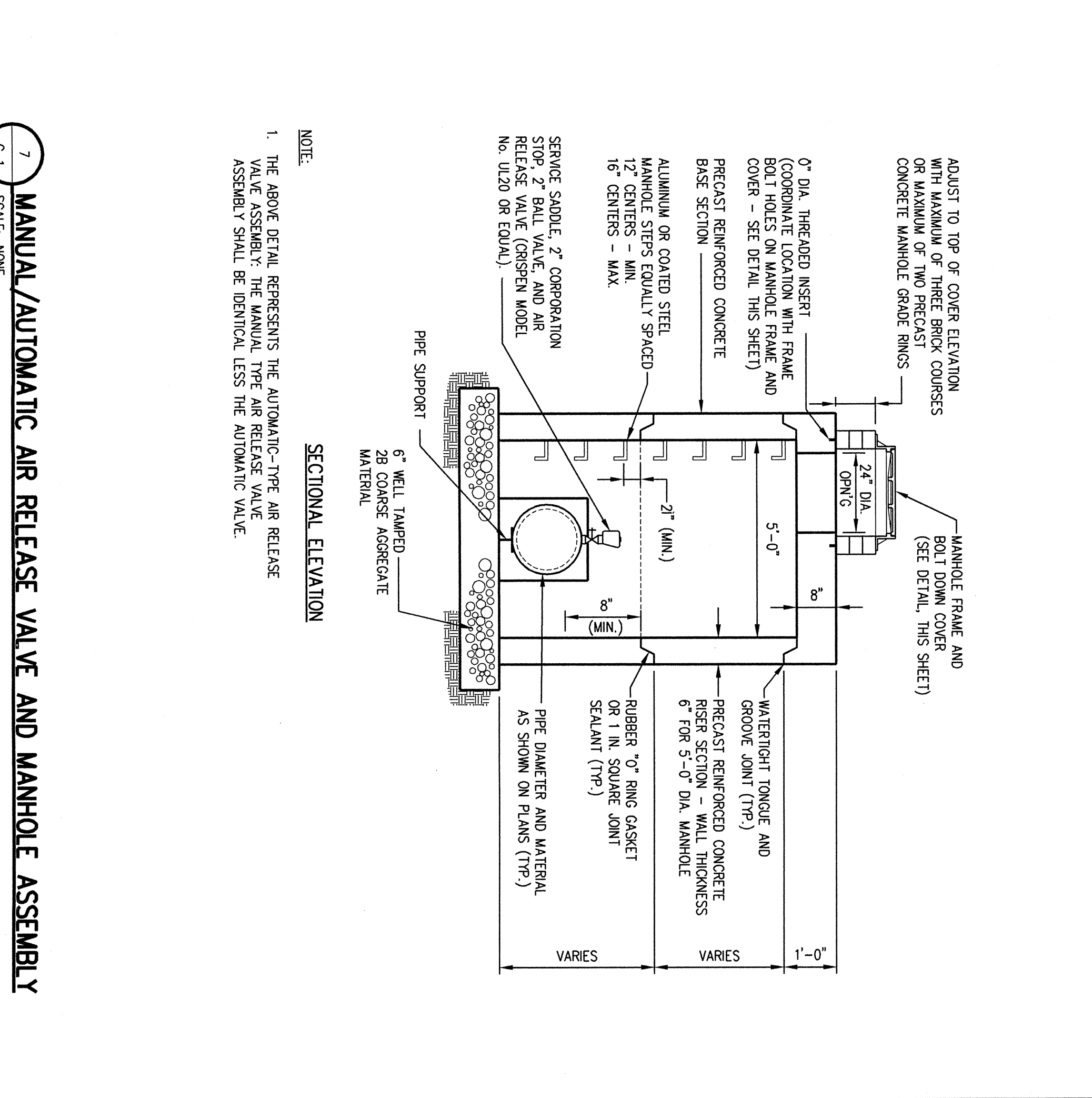
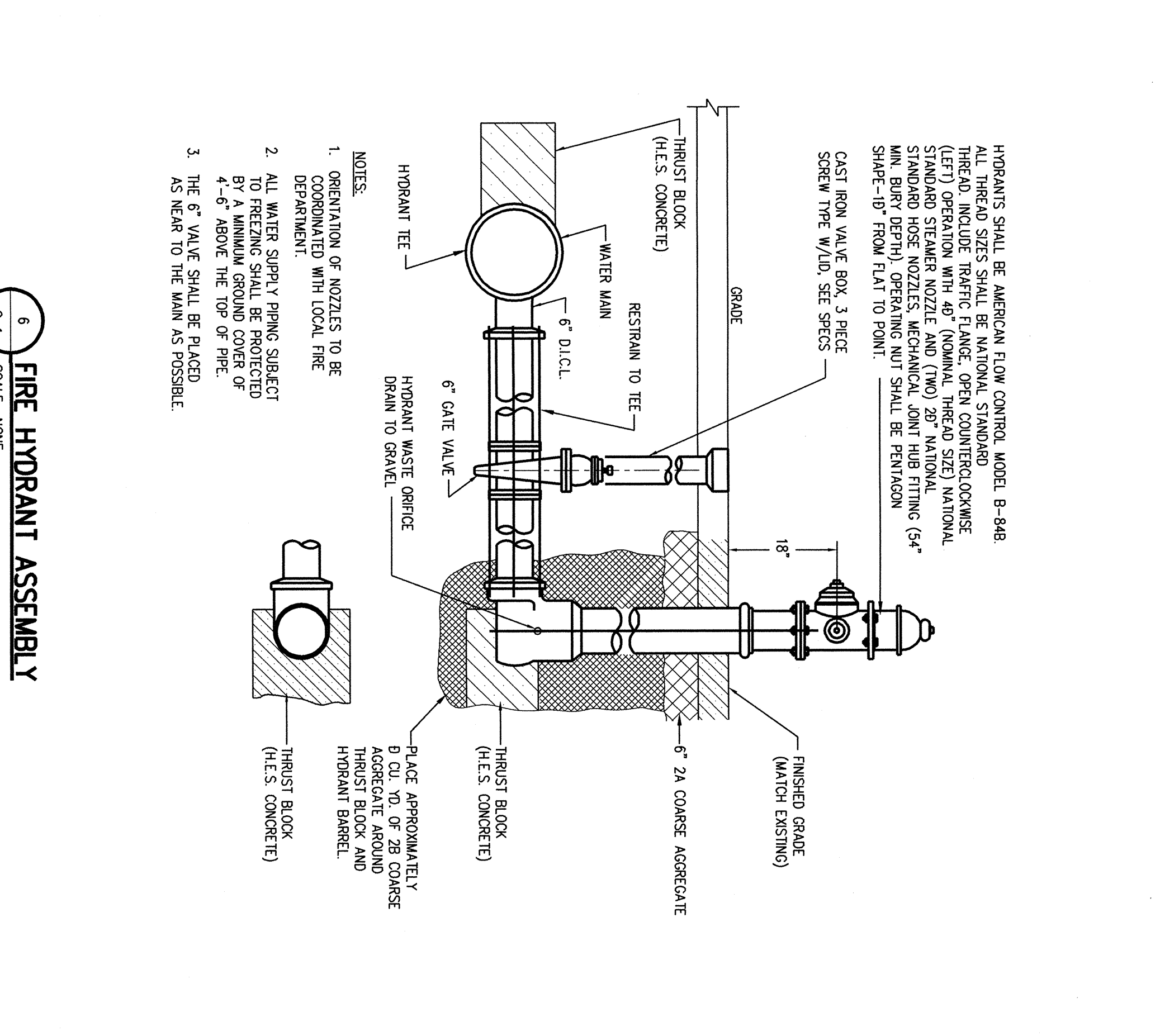
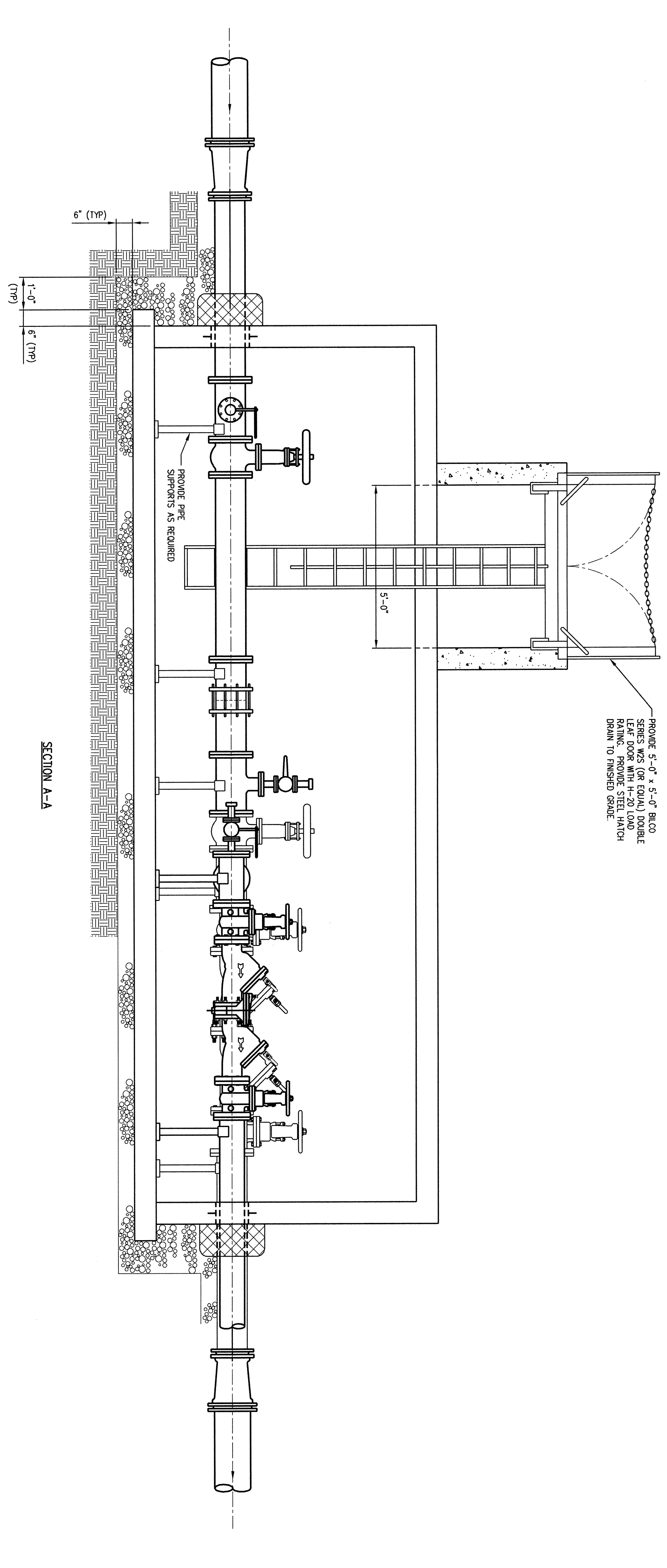
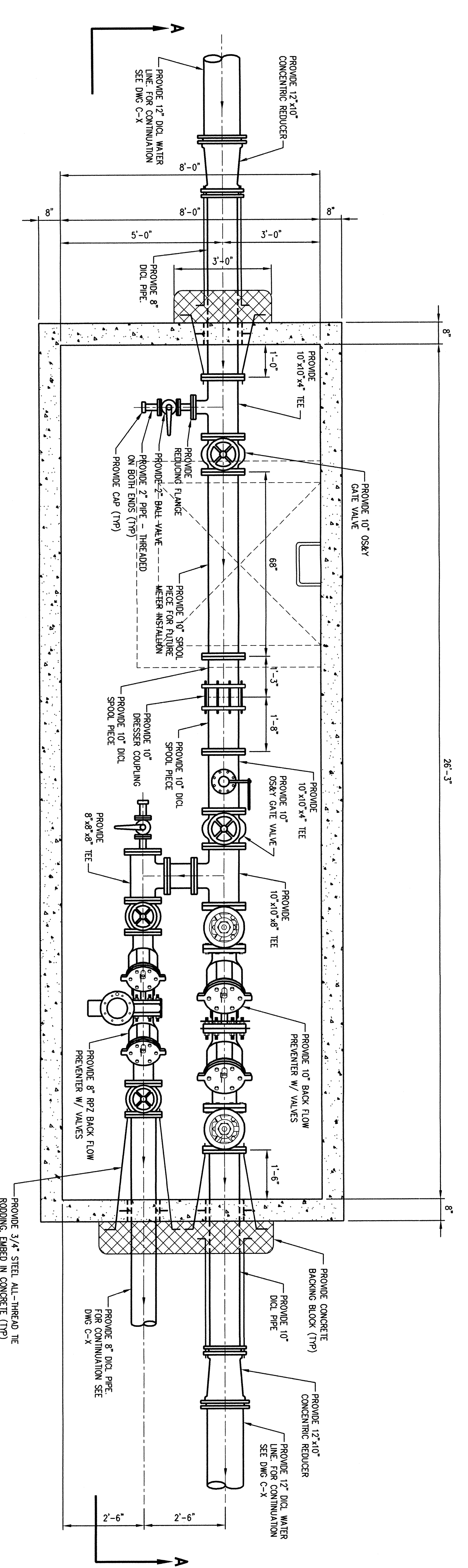
Quadr 3
 27 north washington street, warrenburg, mo 19701 507-428-4200
 JAMES P. MALINDO
 REGISTERED PROFESSIONAL ENGINEER

REVISION	DATE
AS SHOWN	08-01-05
CHECKED	07/25/01
DESIGNED	



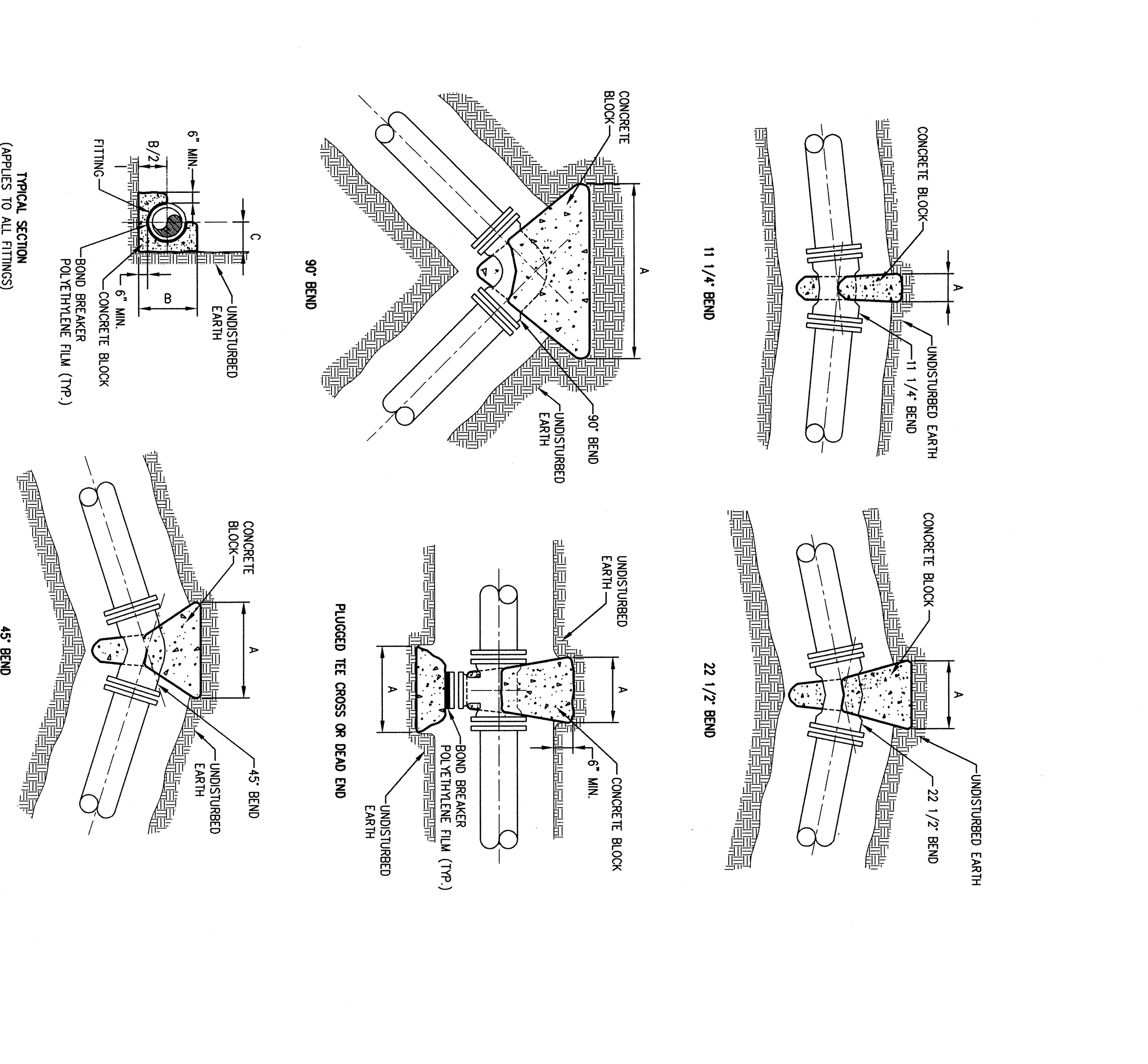
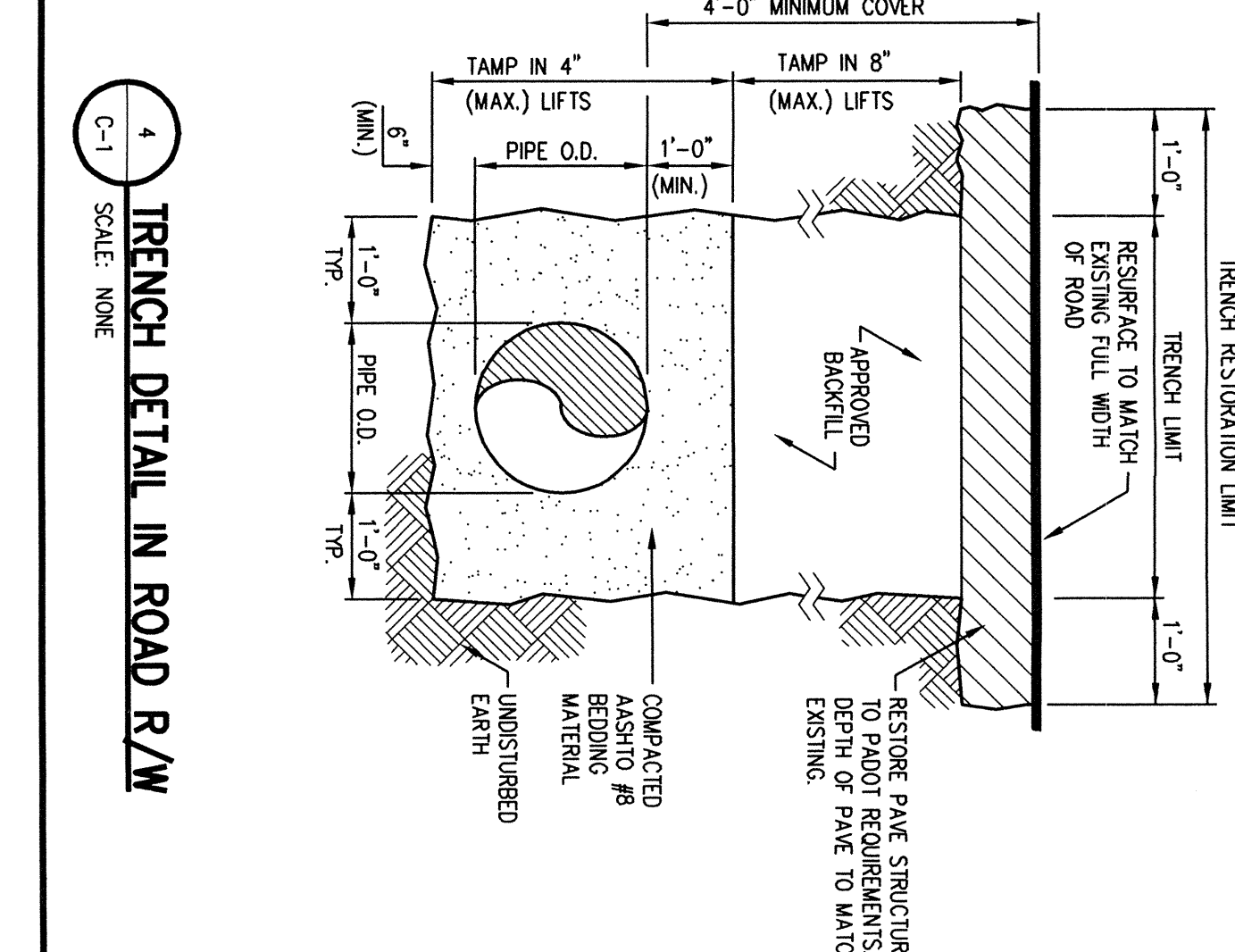
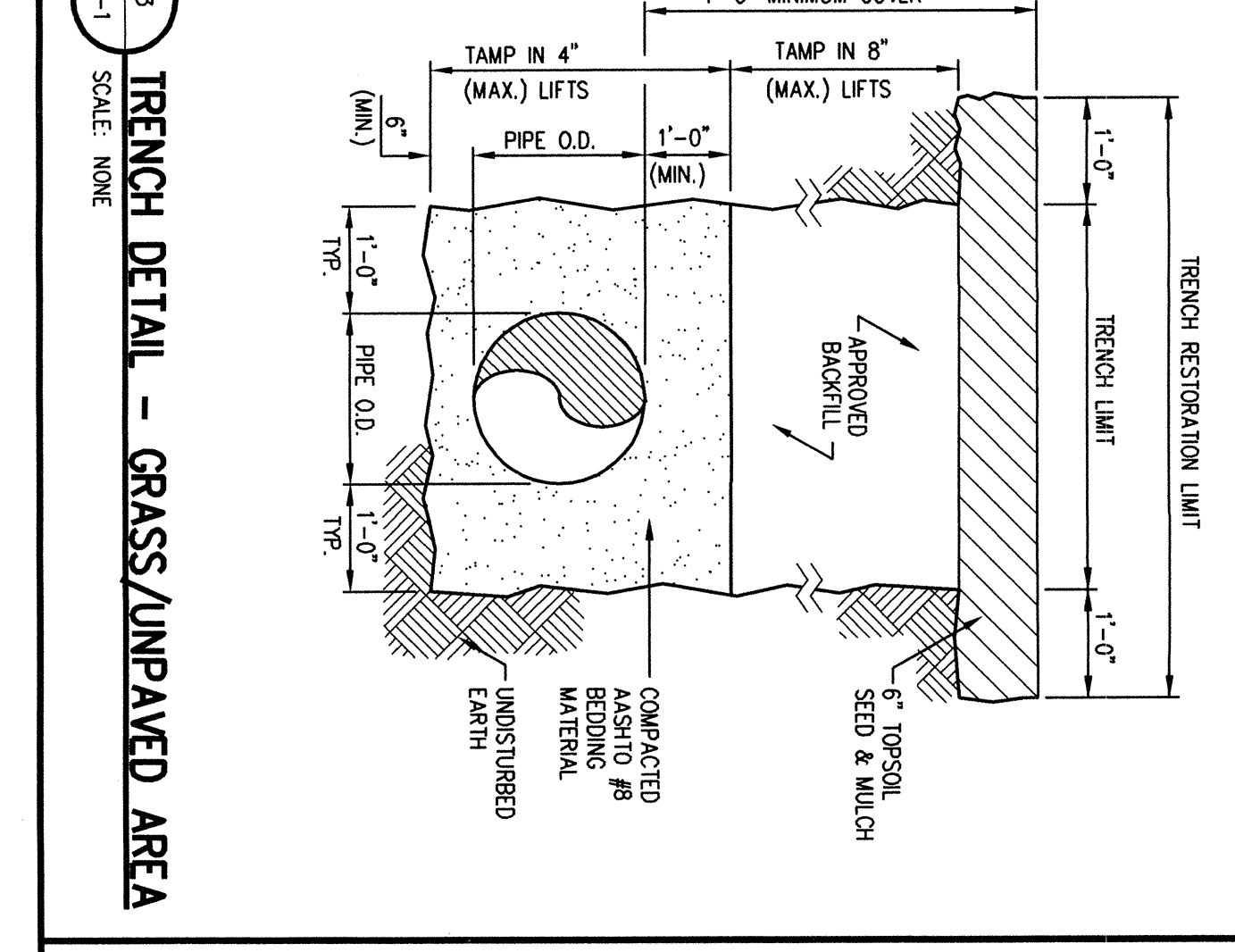
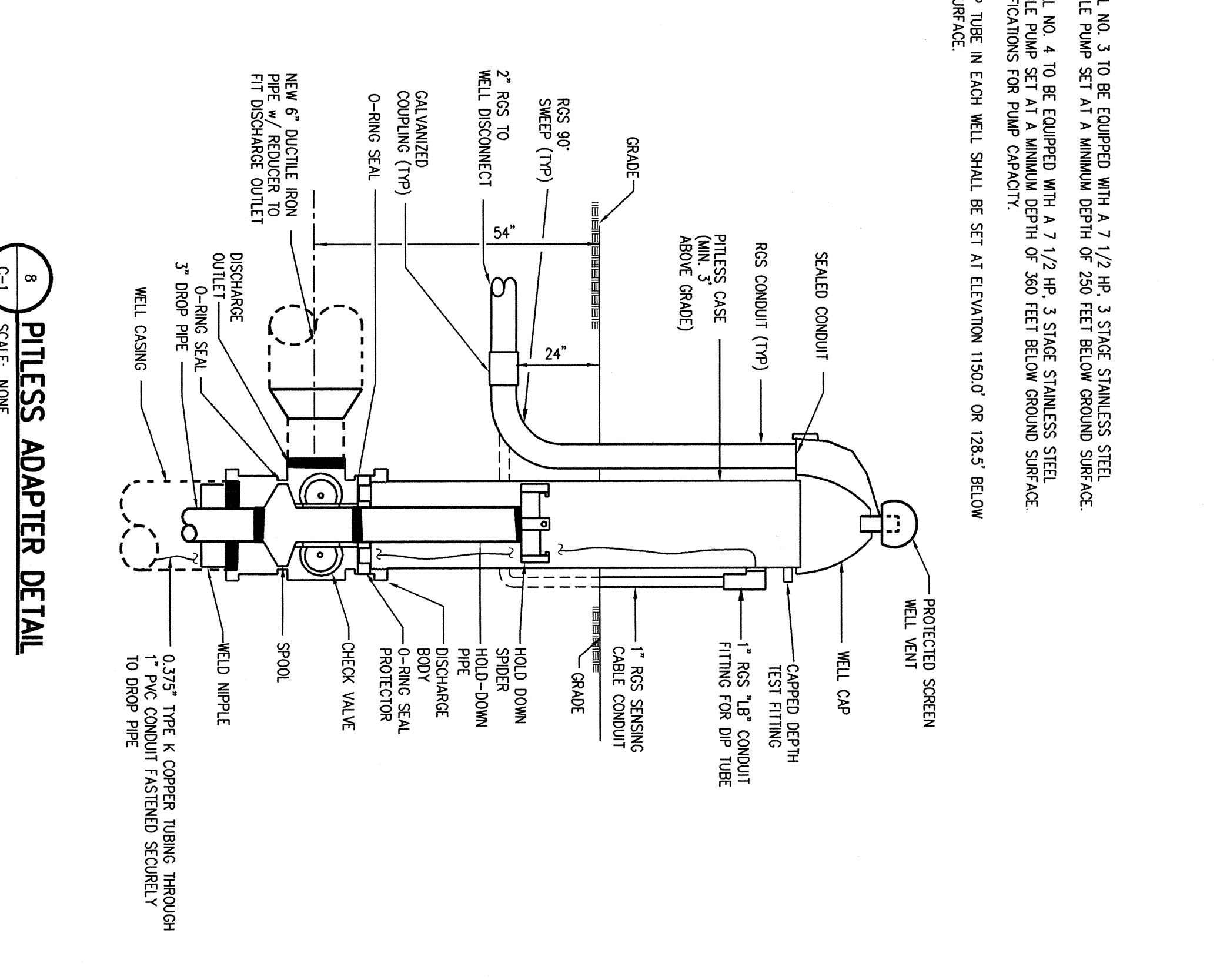
CHECK GRAPHIC SCALE BEFORE USING
SCALE IN FEET

PUBLIC WATER SUPPLY SYSTEM	
XXXXXXXX	
MOUNT AIRY #1 L.L.C.	
LAND DEVELOPMENT	
PARADISE TOWNSHIP, MONROE COUNTY	
PENNSYLVANIA	
architects - engineers - environmental scientists	sheet no. C-3
37 north Washington Street, Suite 300, P.O. Box 1870, 570-823-4200	of 2
DATE: 07/25/2014 07:52:31PM	



HORIZONTAL REACTION BLOCKING SCHEDULE

FITTING (SIZE & TYPE)	A	B	C
4-11/2\"/>			



NOTES:

- SILVER WELL NO. 3 TO BE EQUIPPED WITH A 1 1/2\"/>

PUBLIC WATER SUPPLY SYSTEM

WATER METER PIT AND DETAILS

Mount Airy #1 L.L.C.

LAND DEVELOPMENT

PARADISE TOWNSHIP, MONROE COUNTY

PENNSYLVANIA

architects - engineers - environmental scientists

Quadr3 GROUP

27 north washington street, wheeler, pa. 17251 570-409-4200

DATE: _____

REVISION: _____

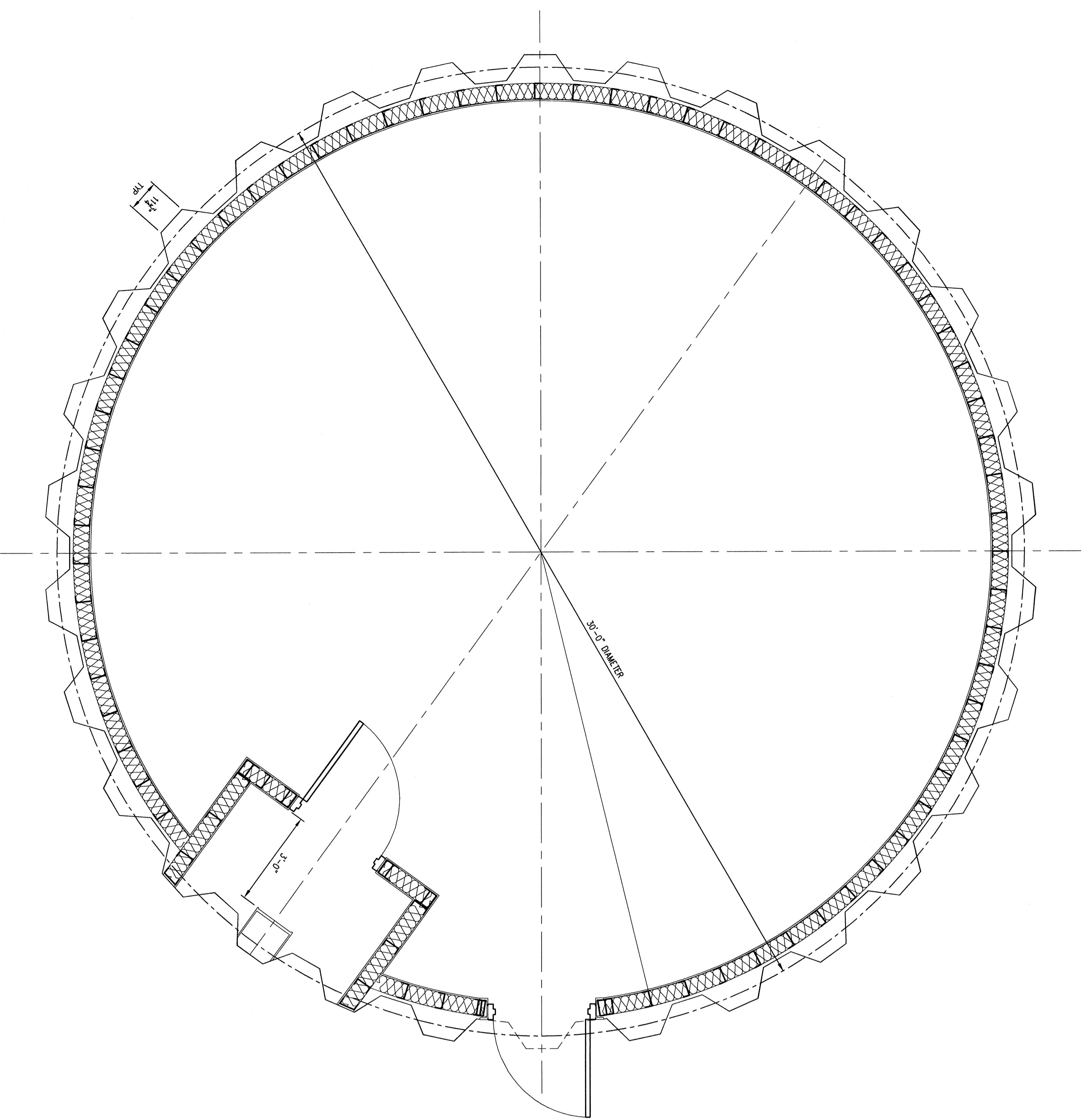
DESIGNED BY: _____

CHECKED BY: _____

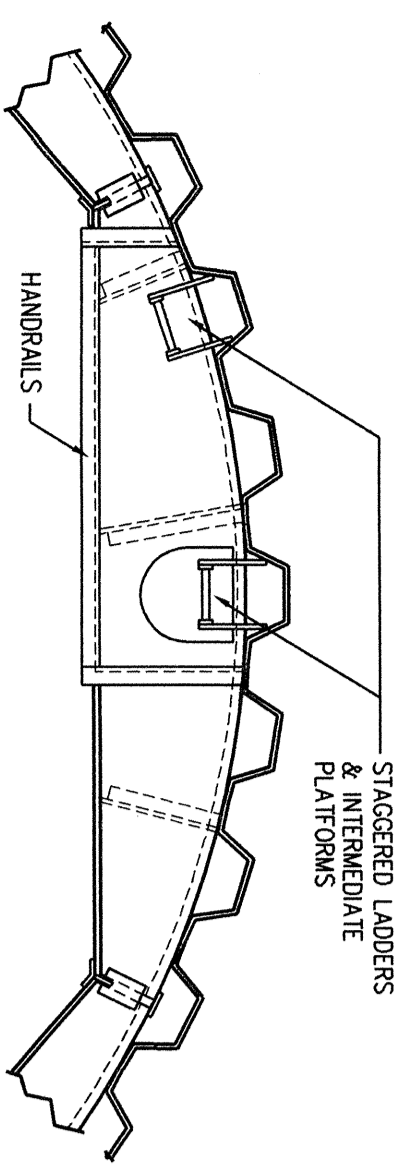
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SHEET NO. 08-01-05

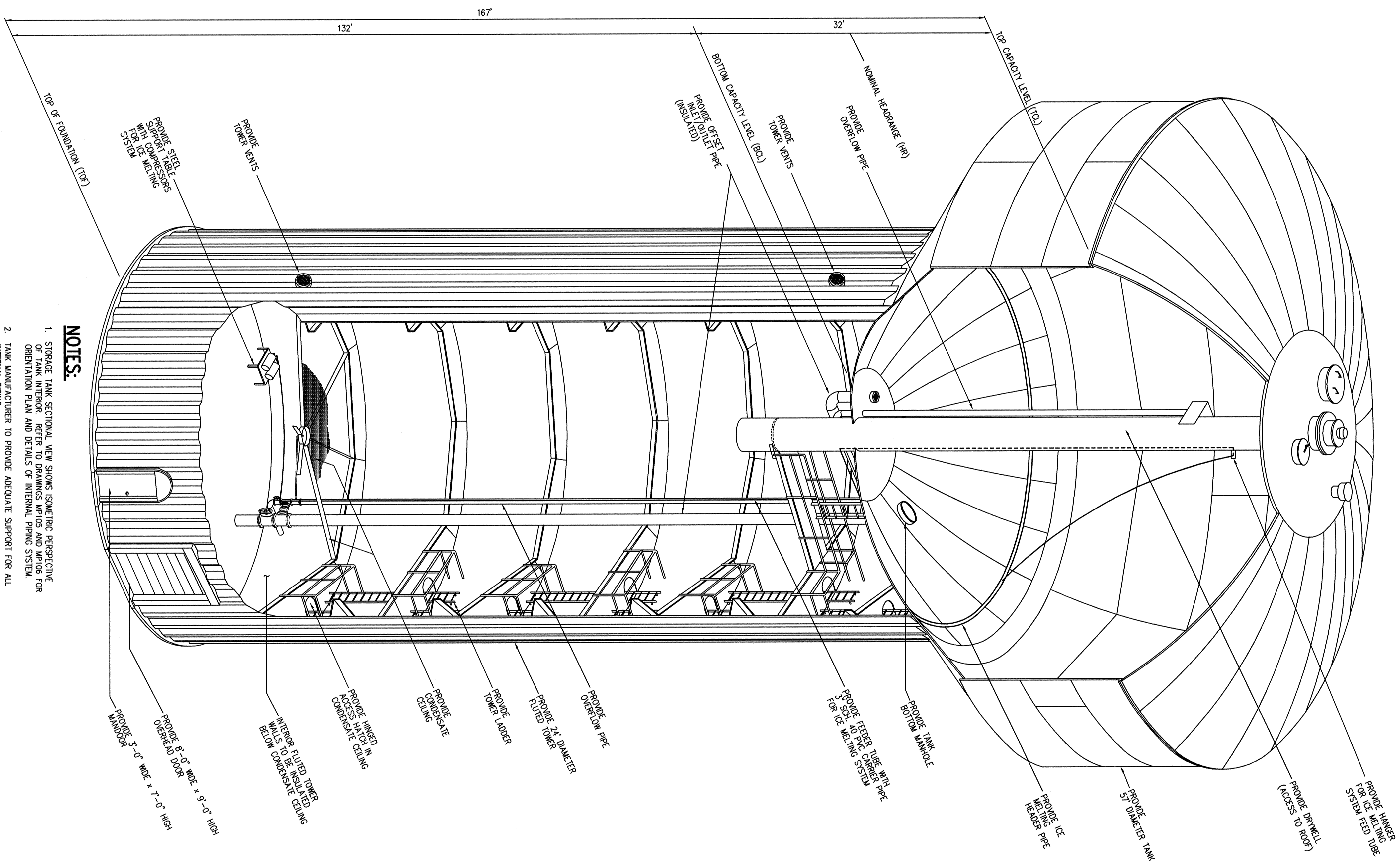
OF 1



1 WATER TOWER BASE FLOOR PLAN
SCALE: 1/2"=1'-0"

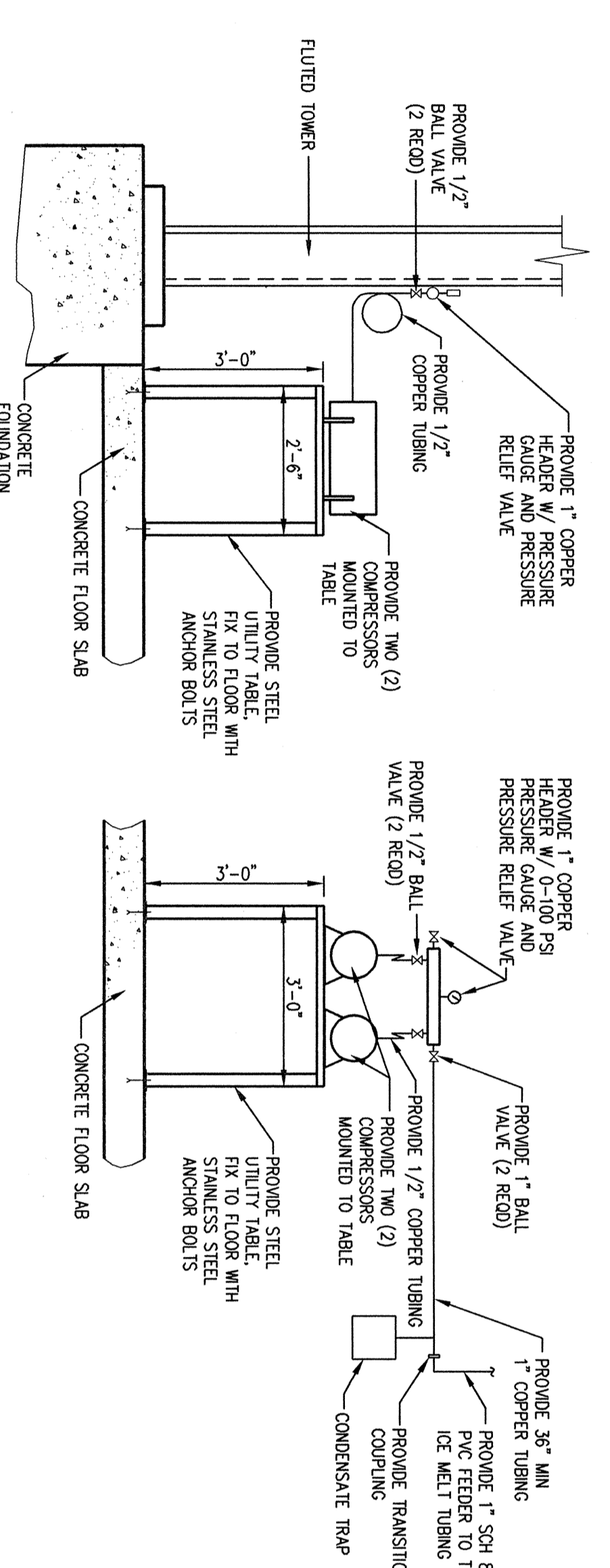


2 TYPICAL FLUTE STIFFENER - SECTION
SCALE: NONE

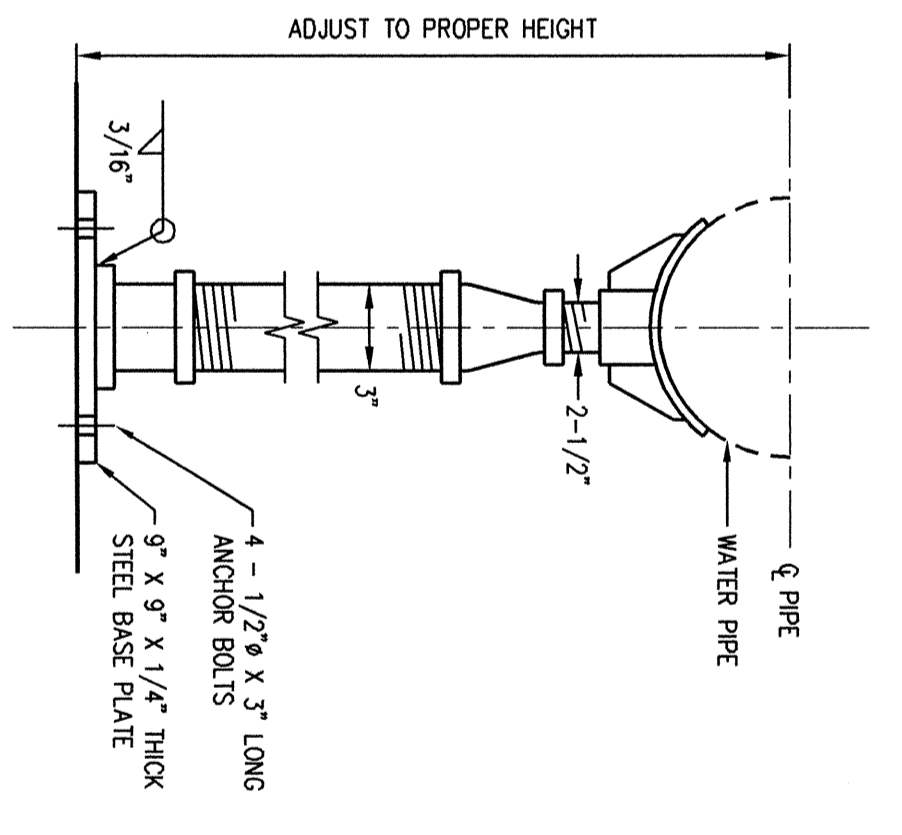


3 STORAGE TANK SECTION
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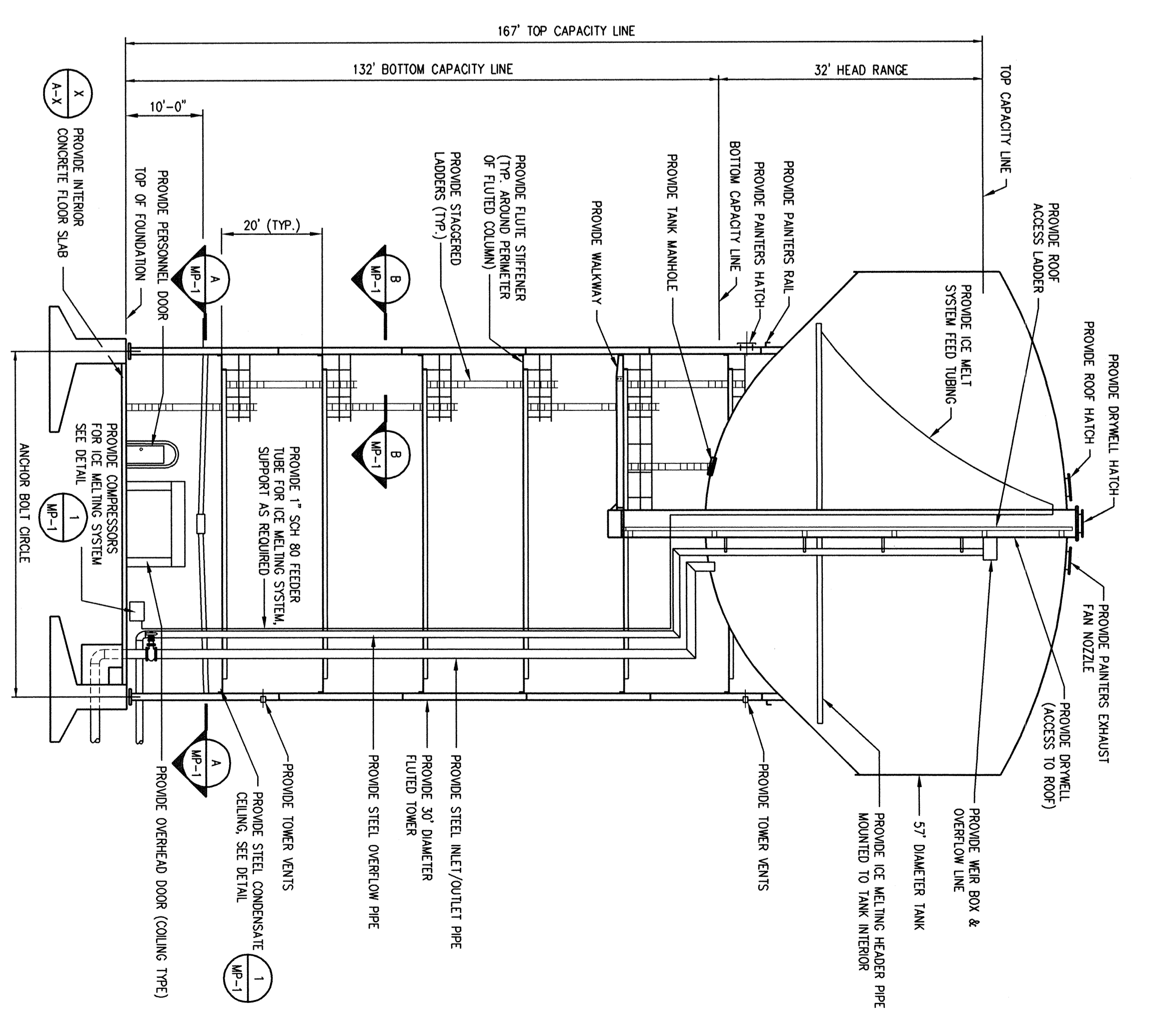
NOTES:
1. STORAGE TANK SECTION WITH SHOWN COMPONENTS RESPECTIVE OF TANK INTERIOR. REFER TO DRAWINGS UPON AND AROUND FOR OPERATIONAL PLAN AND DETAILS OF INTERNAL Piping SYSTEM.
2. TANK MANUFACTURER TO PROVIDE ADEQUATE SUPPORT FOR ALL INTERNAL PIPING.



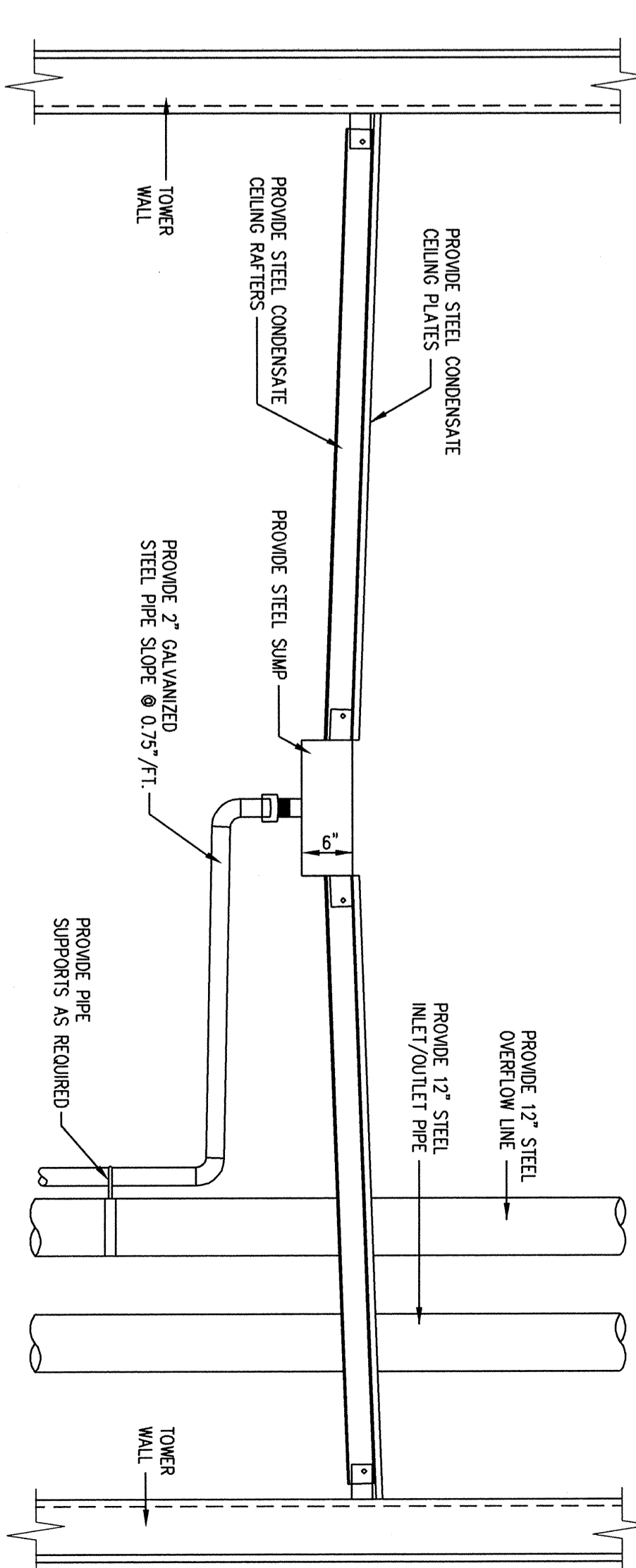
4 ICE MELTING SYSTEM COMPRESSOR DETAIL
SCALE: NONE



5 ADJUSTABLE PIPE SUPPORT DETAIL
SCALE: NONE



6 ELEVATION
SCALE: NONE



7 CONDENSATE CEILING DETAIL
SCALE: NONE

PUBLIC WATER SUPPLY SYSTEM

WATER TOWER

MOUNT AIRY #1 L.L.C.
LAND DEVELOPMENT
PARADISE TOWNSHIP, MONROE COUNTY
PENNSYLVANIA

architects - engineers - environmental scientists
37 north washington street, allentown, pa 18101 761-629-4200
Quadr 3
DATE: 07/25/2018 07:25:01
SHEET NO. 1 OF 1

MOUNT AIRY # 1 L.L.C.

EXISTING SANITARY SEWAGE SYSTEM IMPROVMENTS

PARADISE TOWNSHIP, MONROE COUNTY, PENNSYLVANIA

OWNER/APPLICANT:

MOUNT AIRY #1 L.L.C.
 42 WOODLAND ROAD
 MOUNT POCONO, PA 18344

CONTACT: ROBERT McNICHOLS SR.
 (570) 947-9026

TOTAL PARCEL AREA = 889.98 ACRES

REVIEWING AGENCY

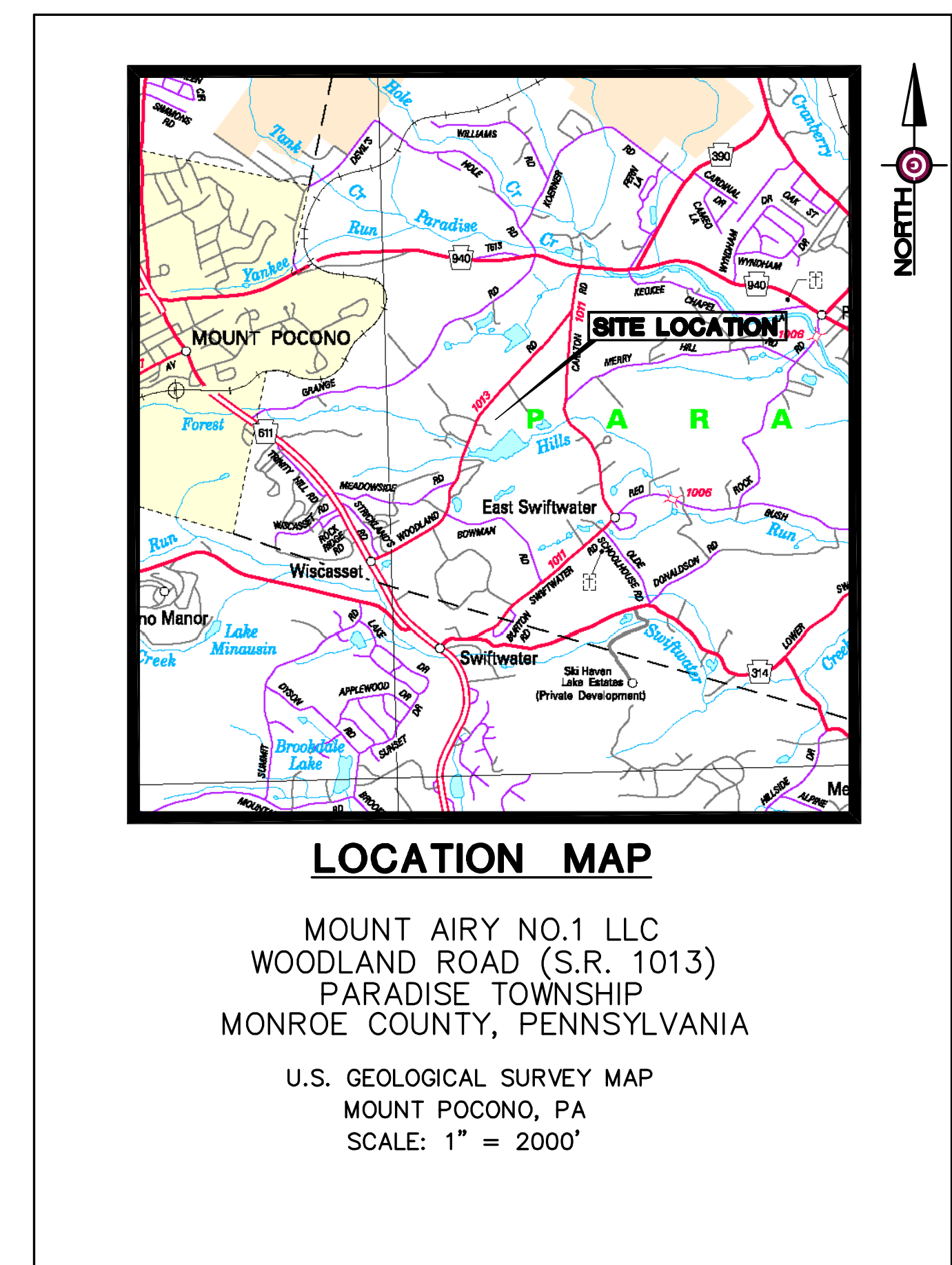
PA DEPARTMENT OF ENVIRONMENTAL PROTECTION
 NORTHEAST REGION
 2 PUBLIC SQUARE
 WILKES-BARRE, PA 18711-0790
 (570) 826-2511

PARADISE TOWNSHIP PLANNING COMMISSION
 RR1, BOX 1226
 CRESCO, PA 18326
 (570) 595-8840

PARADISE TOWNSHIP SUPERVISORS
 RR1, BOX 1226
 CRESCO, PA 18326
 (570) 595-8840

INDEX OF SHEETS

- SS-1 SANITARY SEWER PLAN AND PROFILE
- SS-2 SANITARY SEWER PLAN AND PROFILE
- SS-3 SANITARY SEWER PLAN AND PROFILE
- SS-4 SANITARY SEWER DETAILS
- SS-5 SEWAGE PUMP STATION
- SS-6 SEWAGE PUMP STATION DETAILS



RECOMMENDED FOR APPROVAL BY:
 PA DEPARTMENT OF ENVIRONMENTAL PROTECTION

 Date

 Date

 Date

RECOMMENDED FOR APPROVAL BY:
 PARADISE TOWNSHIP PLANNING COMMISSION

 Date

 Date

 Date

 Date

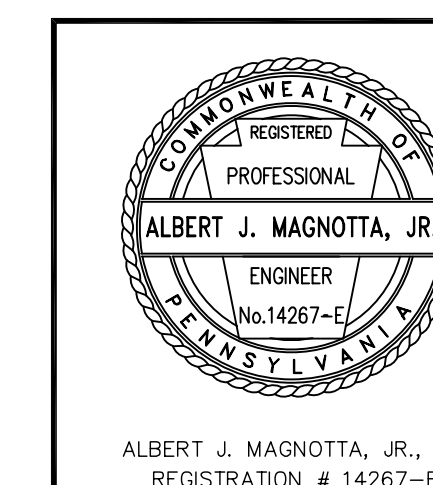
 Date

RECOMMENDED FOR APPROVAL BY:
 PARADISE TOWNSHIP BOARD OF SUPERVISORS

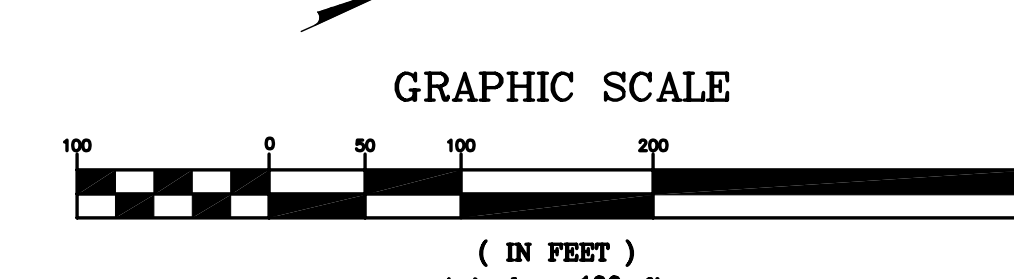
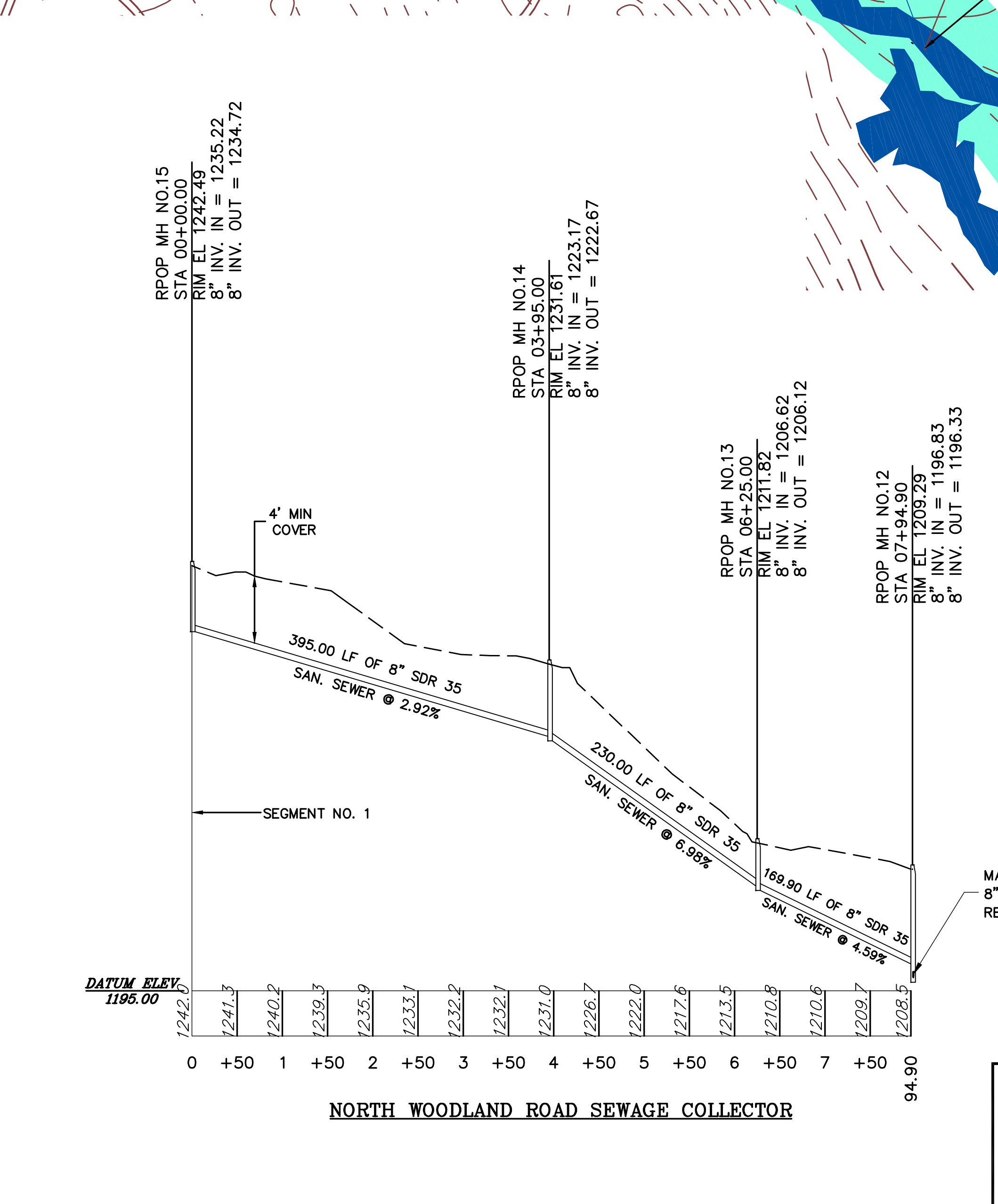
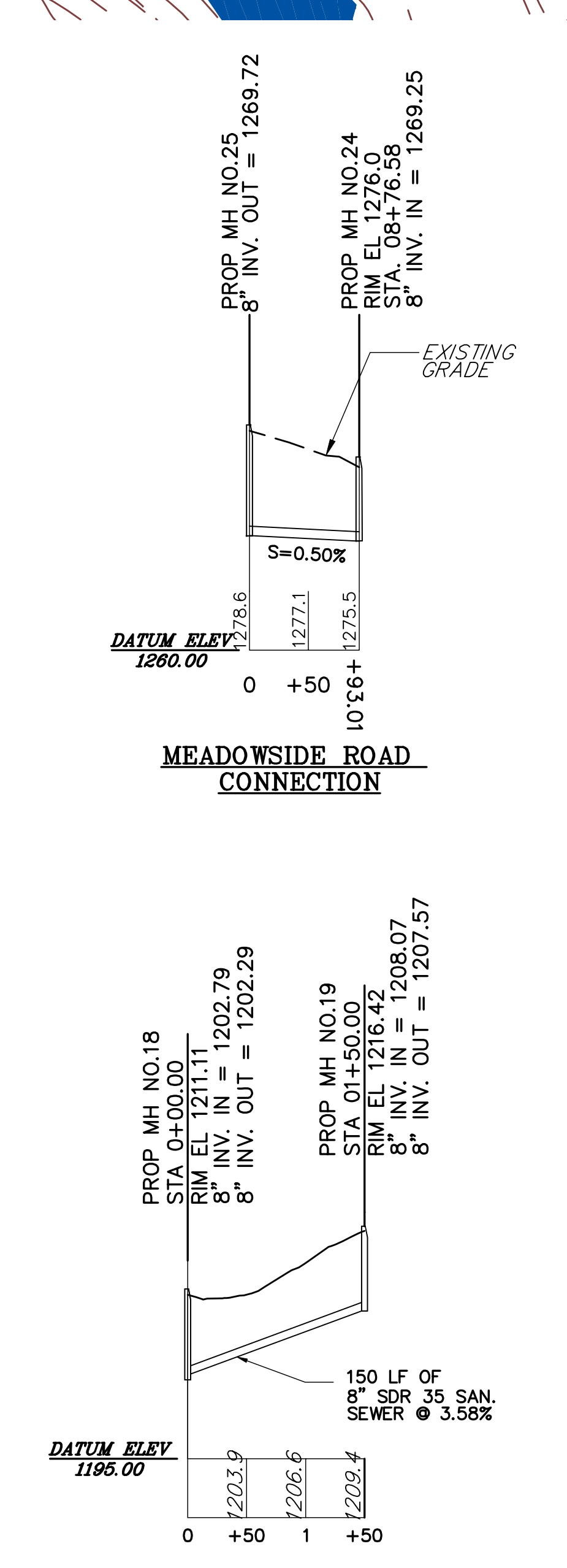
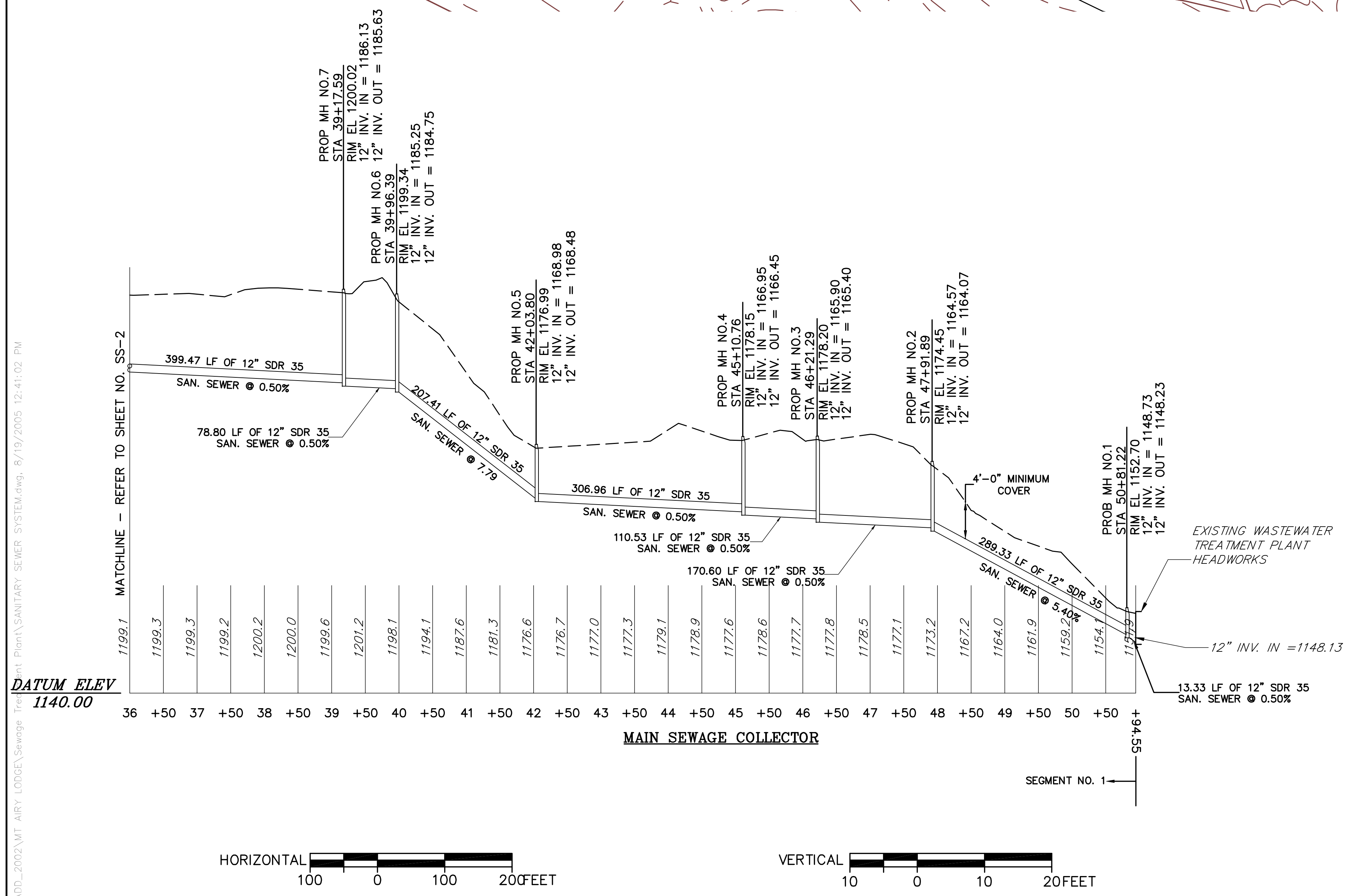
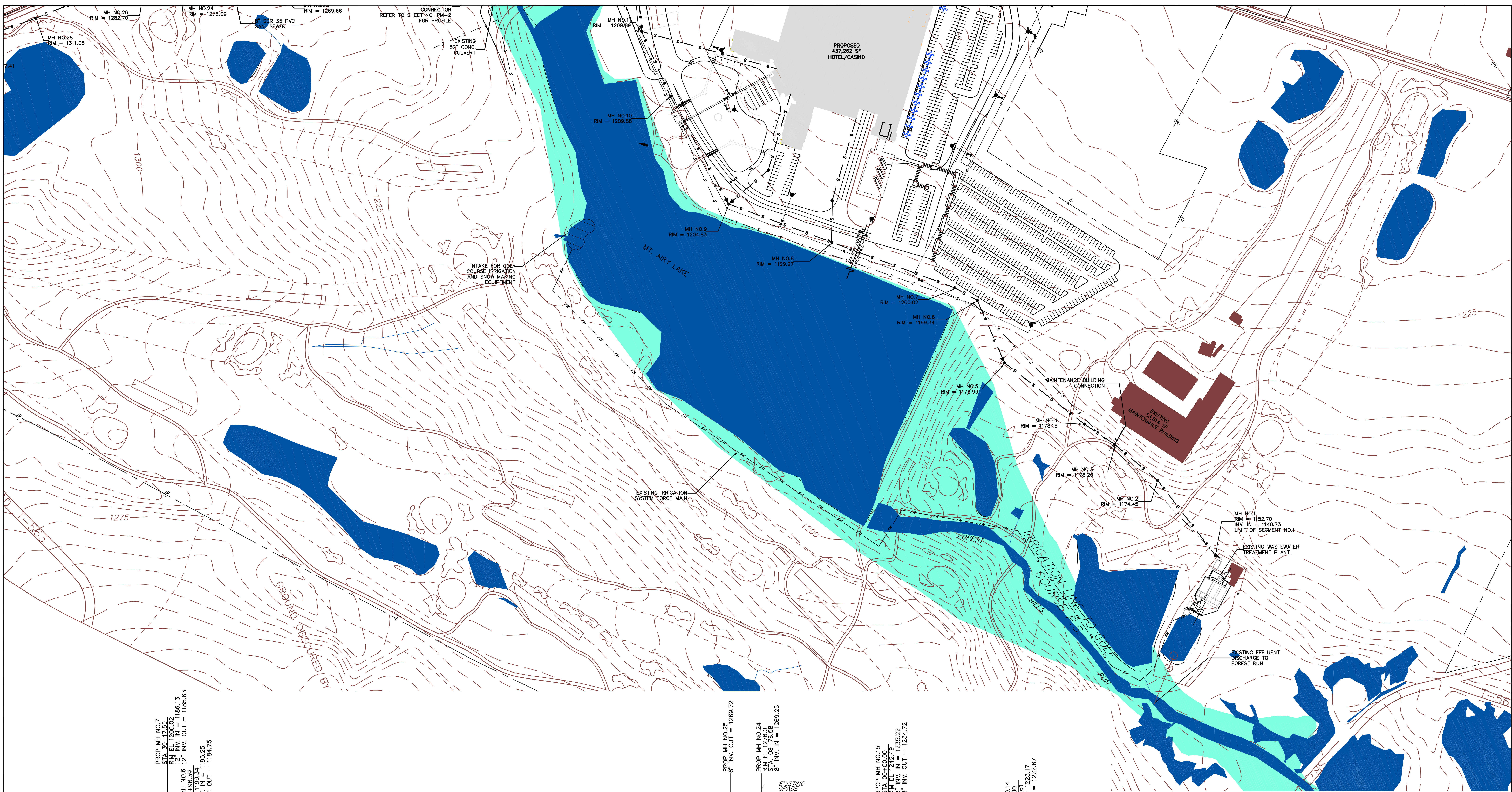
 Date

 Date

 Date



SANITARY SEWAGE SYSTEM		REVISIONS	DATE
MOUNT AIRY #1 L.L.C.		DESIGNED	DRAWN
LAND DEVELOPMENT		A.J.M.	A.J.M.
PARADISE TOWNSHIP, MONROE COUNTY		CHECKED	SCALE
PENNSYLVANIA		JOB NO.	DATE
consulting engineers		05-01-01	08-23-05
p.o. box 995, scranton, pa. 18501 570-342-3101		SHEET NO.	
ceco associates inc.		INDEX	



LEGEND

SYMBOL	DESCRIPTION
○	Utility Pole
—	Existing Sewer Line (See Note)
—	Proposed Sewer Line
—	Existing Sewage Force Main (See Note)
—	Proposed Sewage Force Main
—	Onsite Sewage Disposal System
—	Property Line
●	Proposed Sewer Manhole

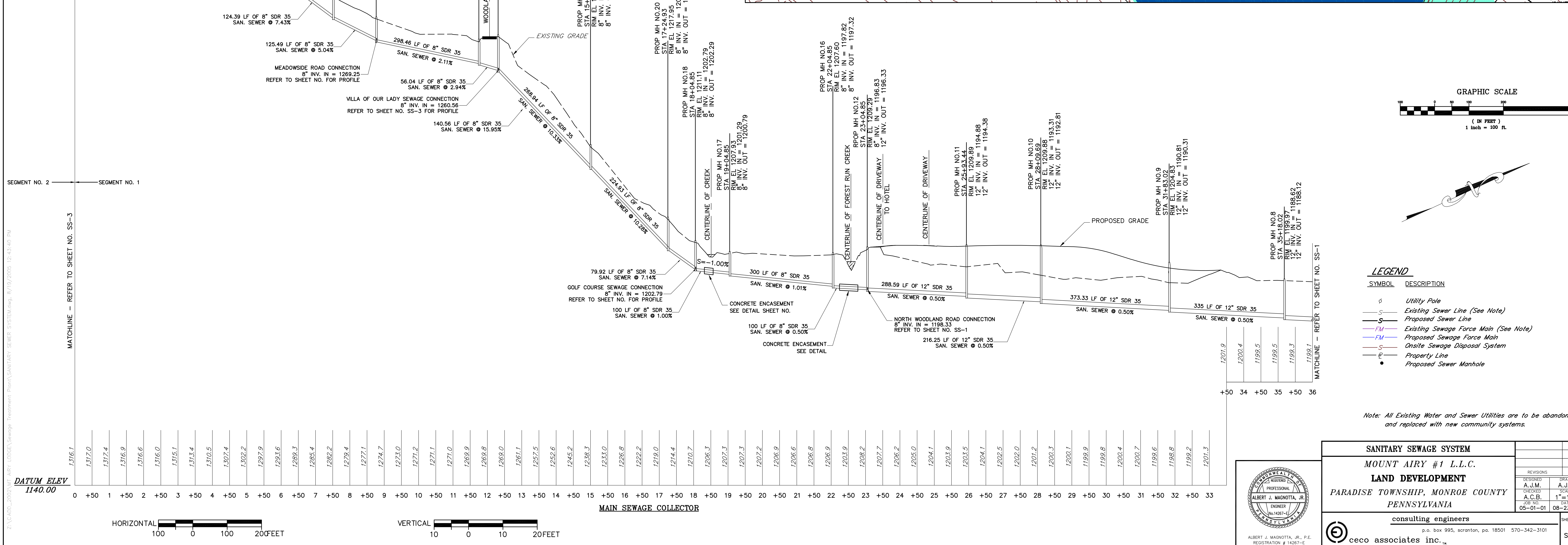
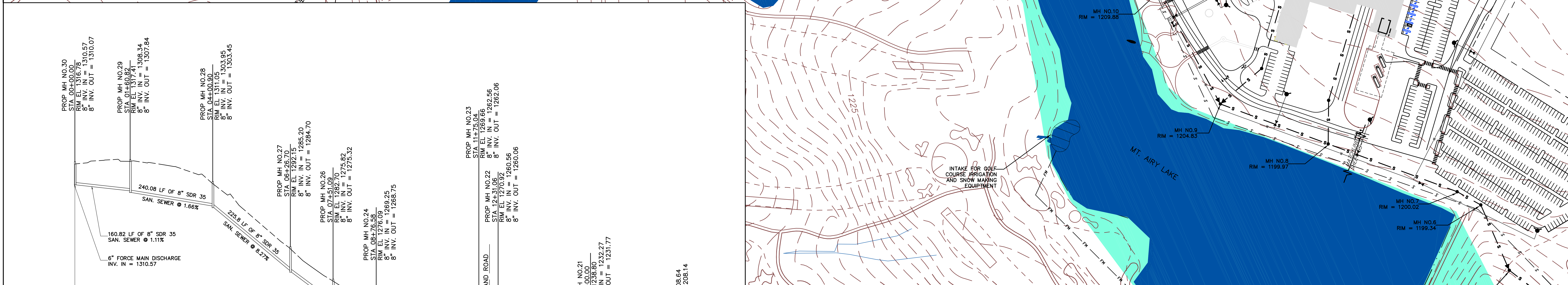
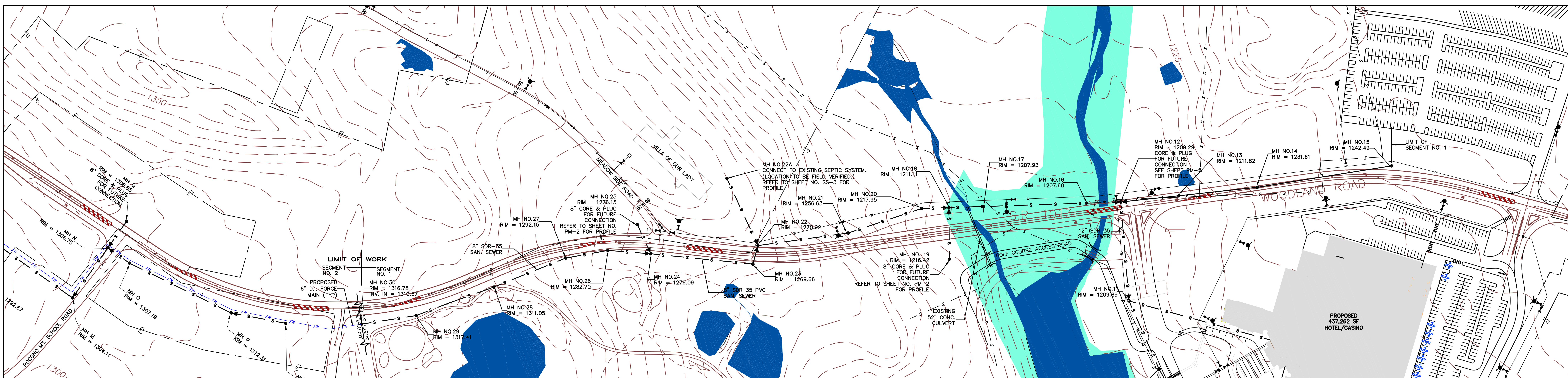
Note: All Existing Water and Sewer Utilities are to be abandoned and replaced with new community systems.

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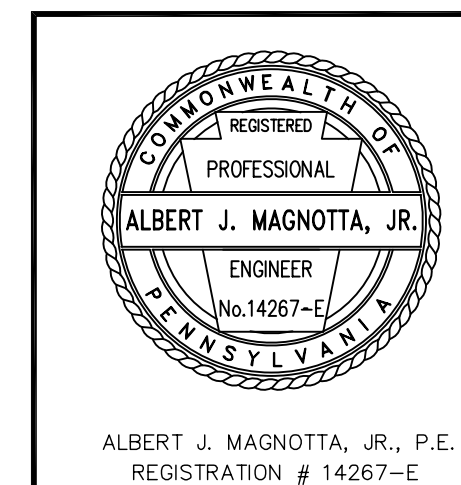
SANITARY SEWER SYSTEM	
MOUNT AIRY #1 L.L.C.	
LAND DEVELOPMENT	
PARADISE TOWNSHIP, MONROE COUNTY	
PENNSYLVANIA	
consulting engineers	
p.o. box 995, scranton, pa. 18501 570-342-3101	
cenco associates inc.	

REVISIONS	DATE
A.J.M.	A.J.M.
DESIGNED	DRAWN
CHECKED	SCALE
A.J.M.	1"=100'
DATE	
05-01-01	08-23-05

SHEET NO. SS-1



Z:\VAD\2005\MT AIRY LOMA\Storage Treatment Plant\SANITARY SEWER SYSTEM.dwg, 8/17/2009, 12:45:45 PM



SANITARY SEWER SYSTEM
MOUNT AIRY #1 L.L.C.
LAND DEVELOPMENT
 PARADISE TOWNSHIP, MONROE COUNTY
 PENNSYLVANIA

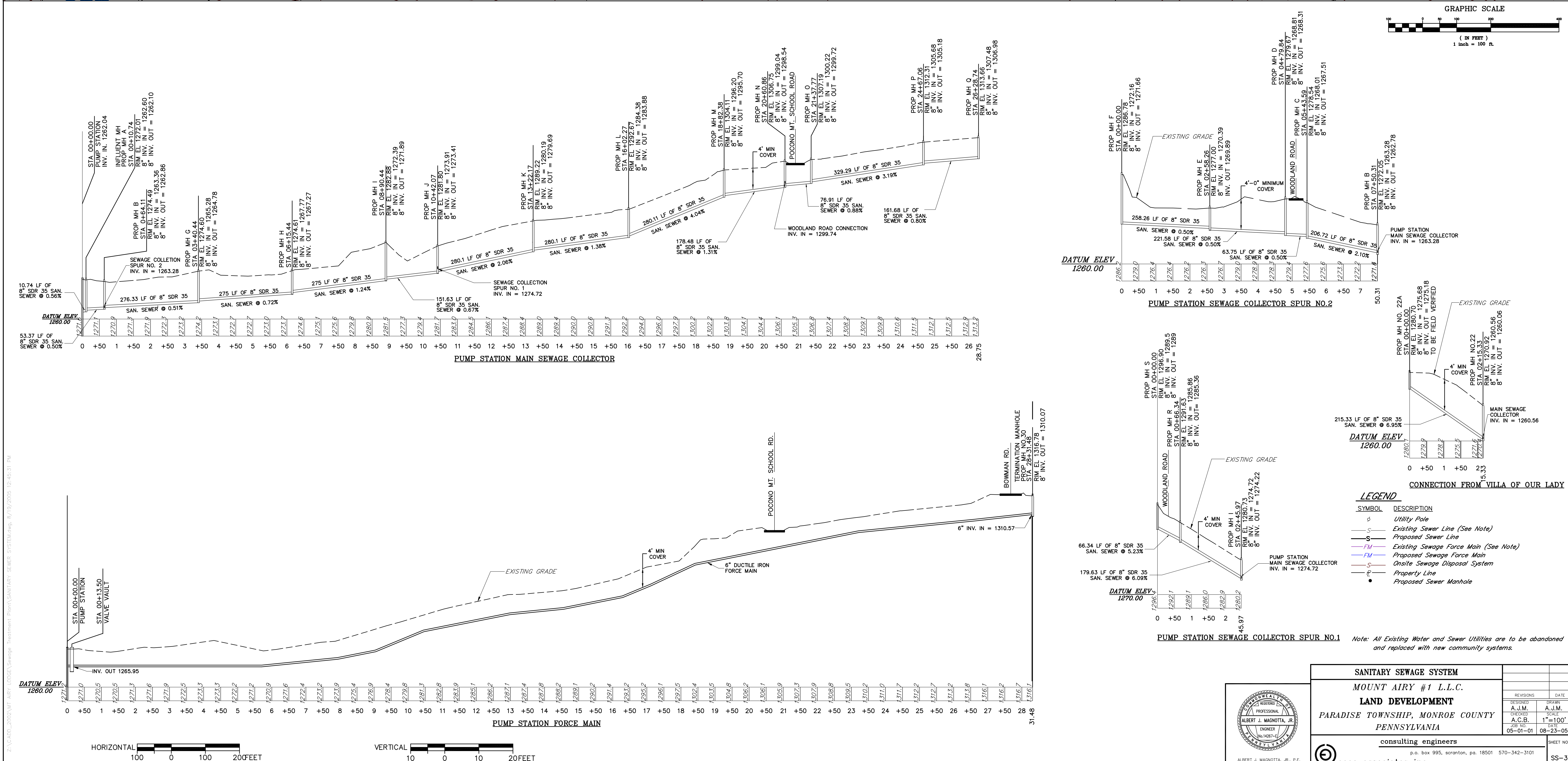
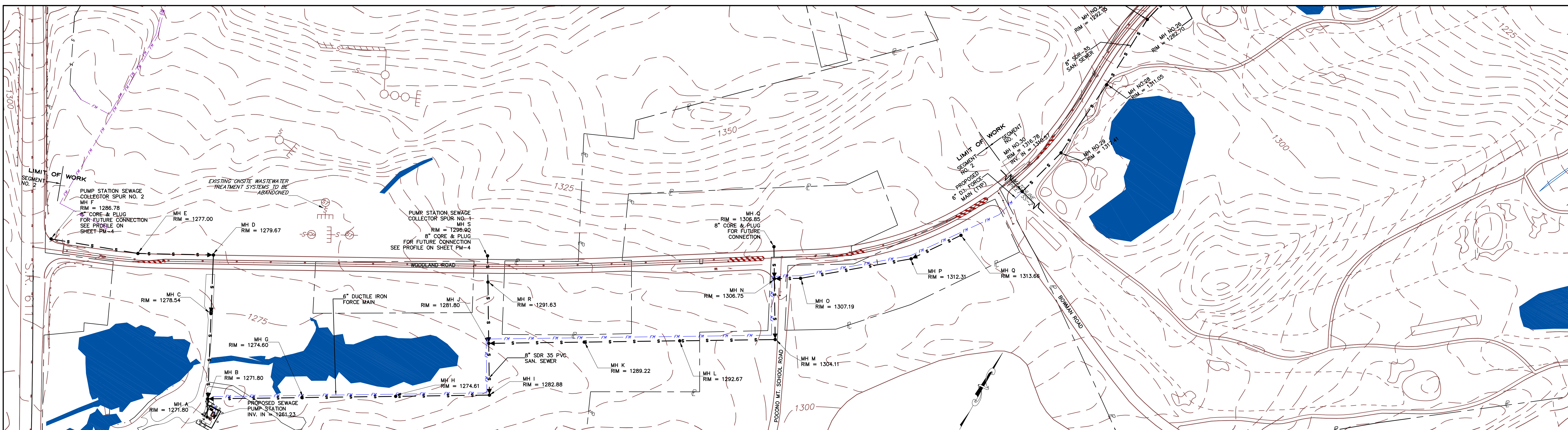
consulting engineers
 ceco associates inc.

REVISIONS DATE
 A.J.M. A.J.M.
 C.A.B. SCALE 1"=100'
 05-01-01 08-23-05

ALBERT J. MAGOTTA, JR., P.E.
 REGISTRATION # 14287-E

p.o. box 995, scranton, pa. 18501 570-342-3101

SHEET NO. SS-2

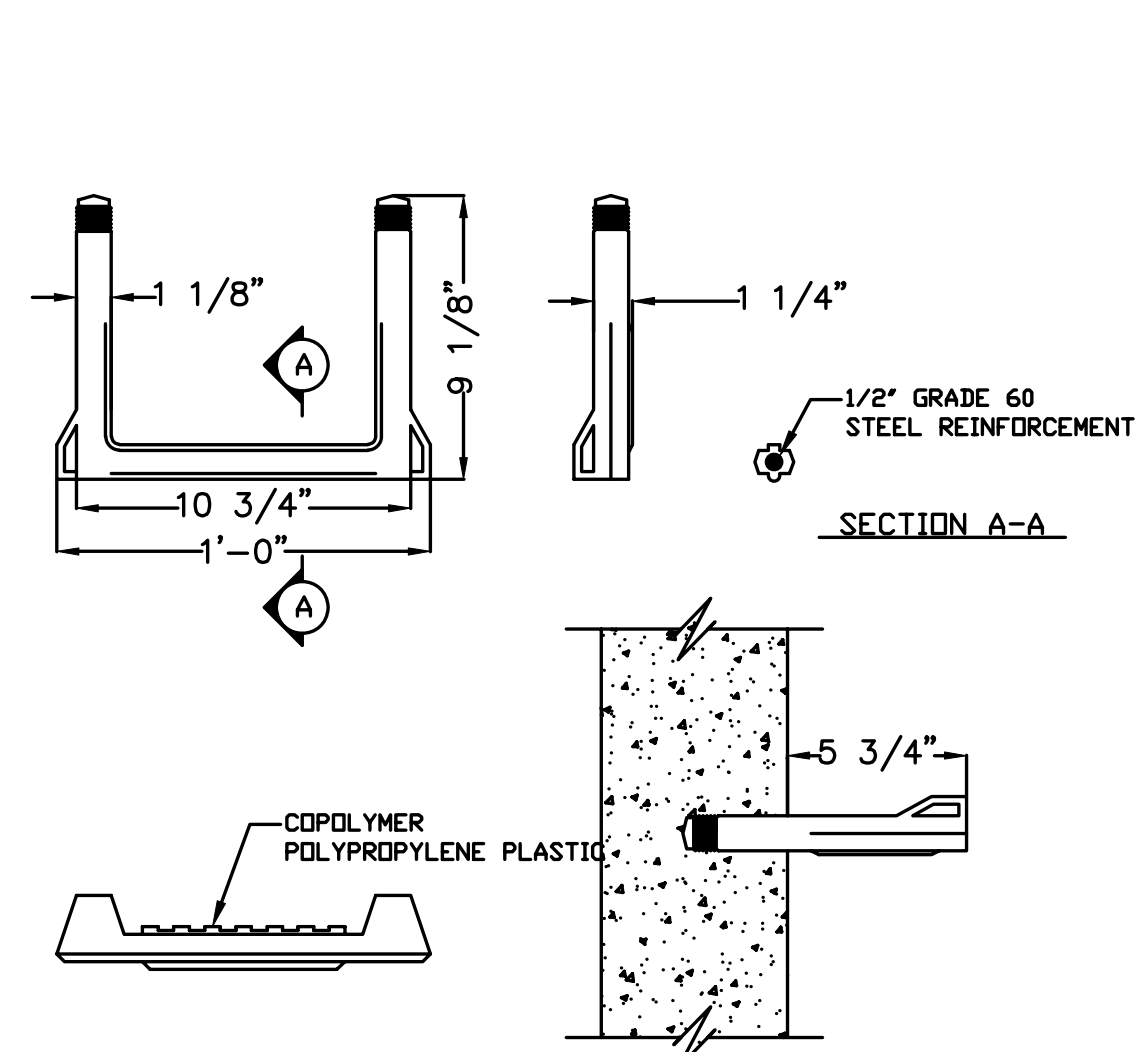


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 PARADISE TOWNSHIP, MONROE COUNTY, PENNSYLVANIA

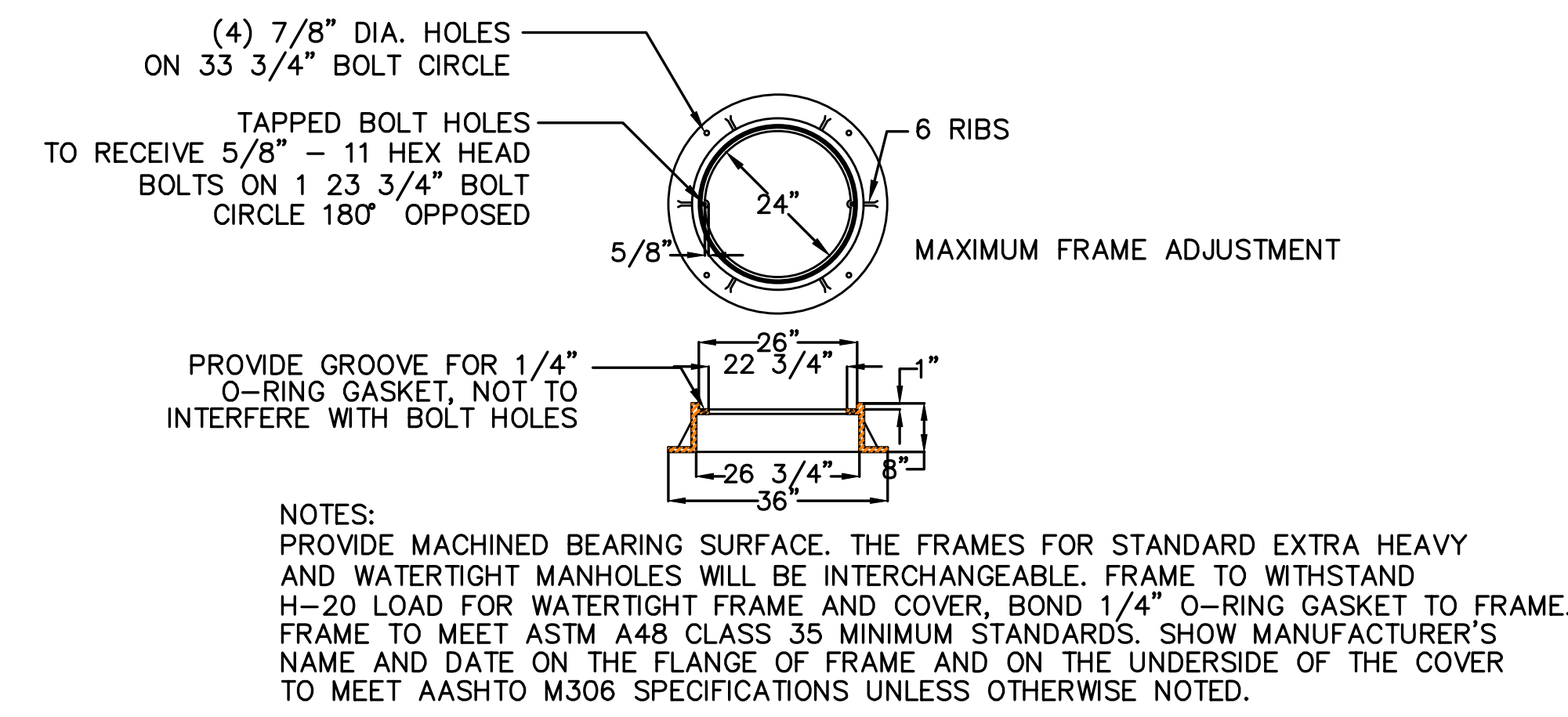
SANITARY SEWER SYSTEM MOUNT AIRY #1 L.L.C. LAND DEVELOPMENT PARADISE TOWNSHIP, MONROE COUNTY PENNSYLVANIA		REVISIONS A.J.M. A.C.B. 05-01-01	DATE A.J.M. 08-23-05
consulting engineers p.o. box 995, scranton, pa. 18501 570-342-3101 cenco associates inc.		SHEET NO. SS-3	

NOTES

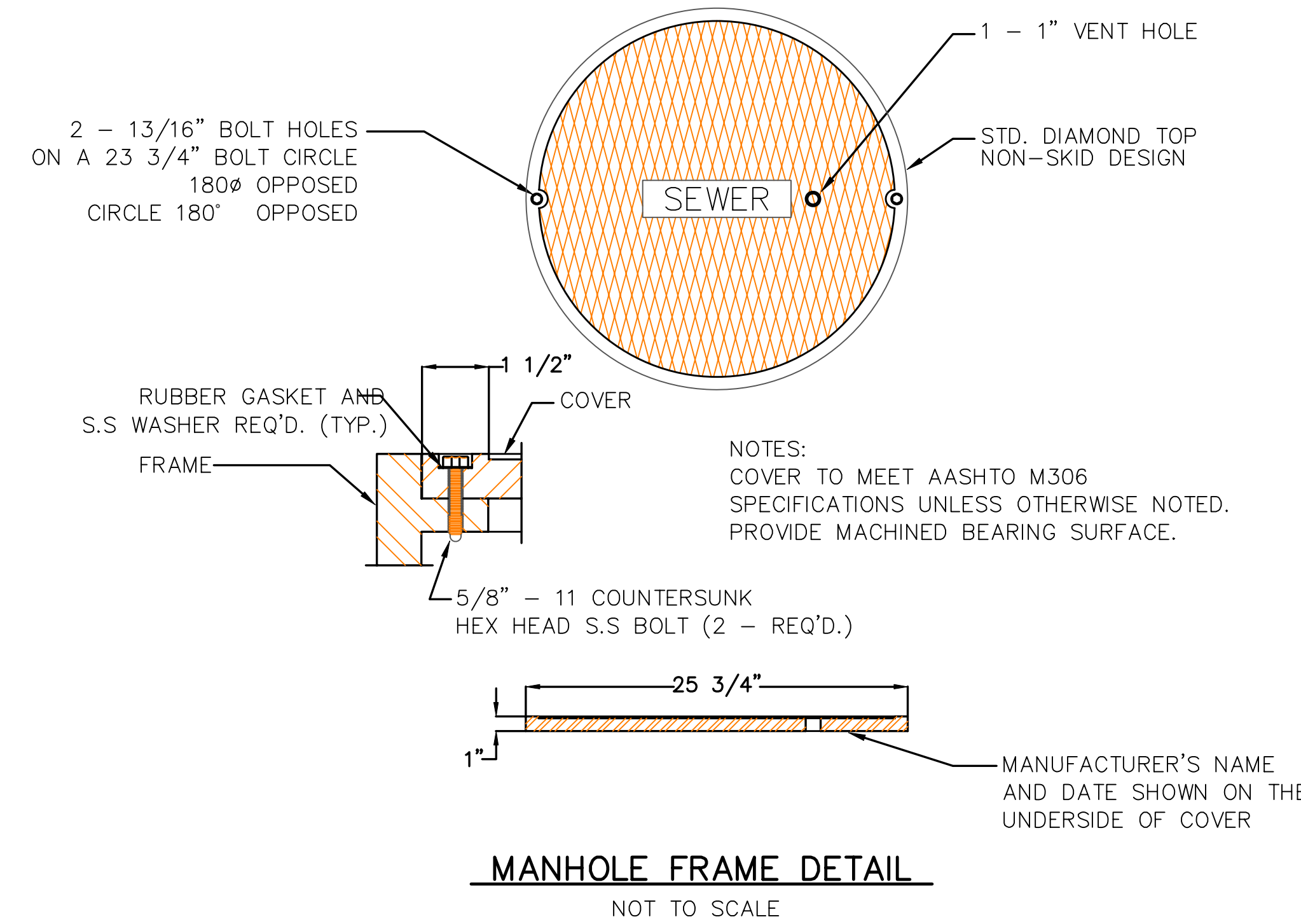
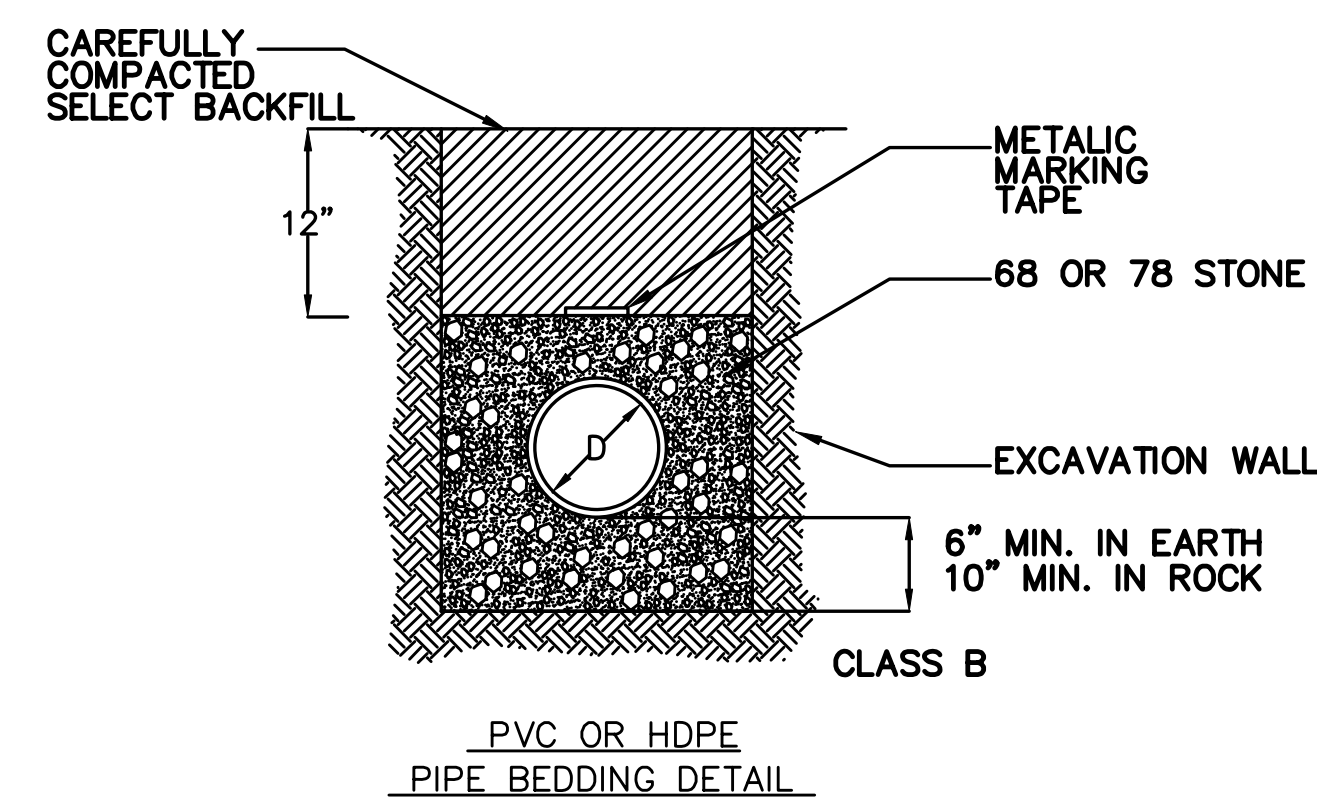
- PRECAST CONCRETE MANHOLES SHALL MEET THE REQUIREMENTS ASTM C478
- PRECAST CONCRETE MANHOLES SHALL HAVE A MINIMUM DIAMETER OF 4'-0" AND SHALL BE LINED WITH AGRU SURE-GRIP HOPE LINER. ALTERNATES MUST BE APPROVED BY THE ENGINEER BEFORE CONSTRUCTION.
- APPLY TWO COATS OF BITUMISTIC WATERPROOFING COMPOUND TO THE EXTERIOR OF ALL STRUCTURES.



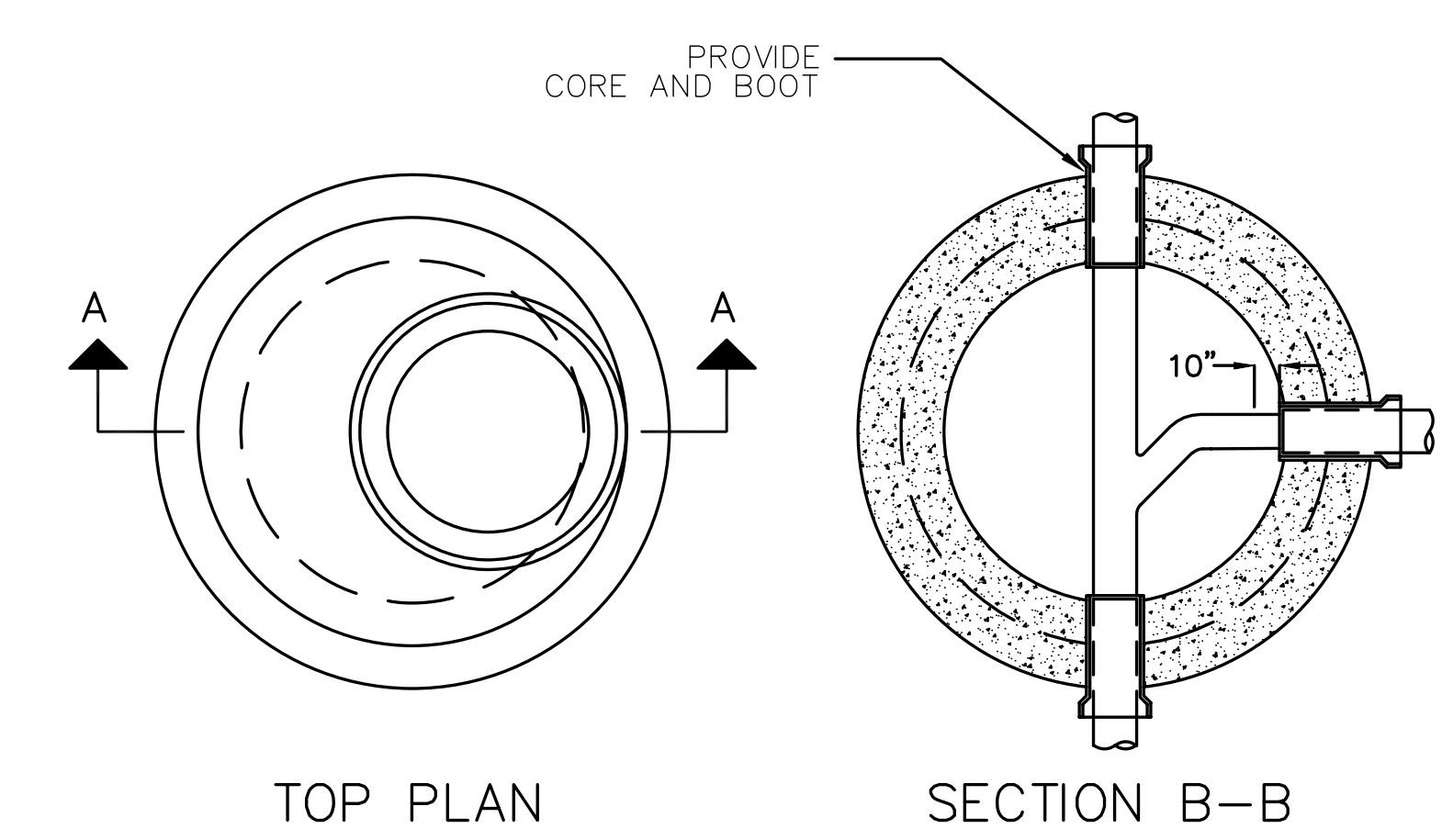
MANHOLE STEP DETAIL
NOT TO SCALE



STANDARD MANHOLE COVER DETAIL
NOT TO SCALE



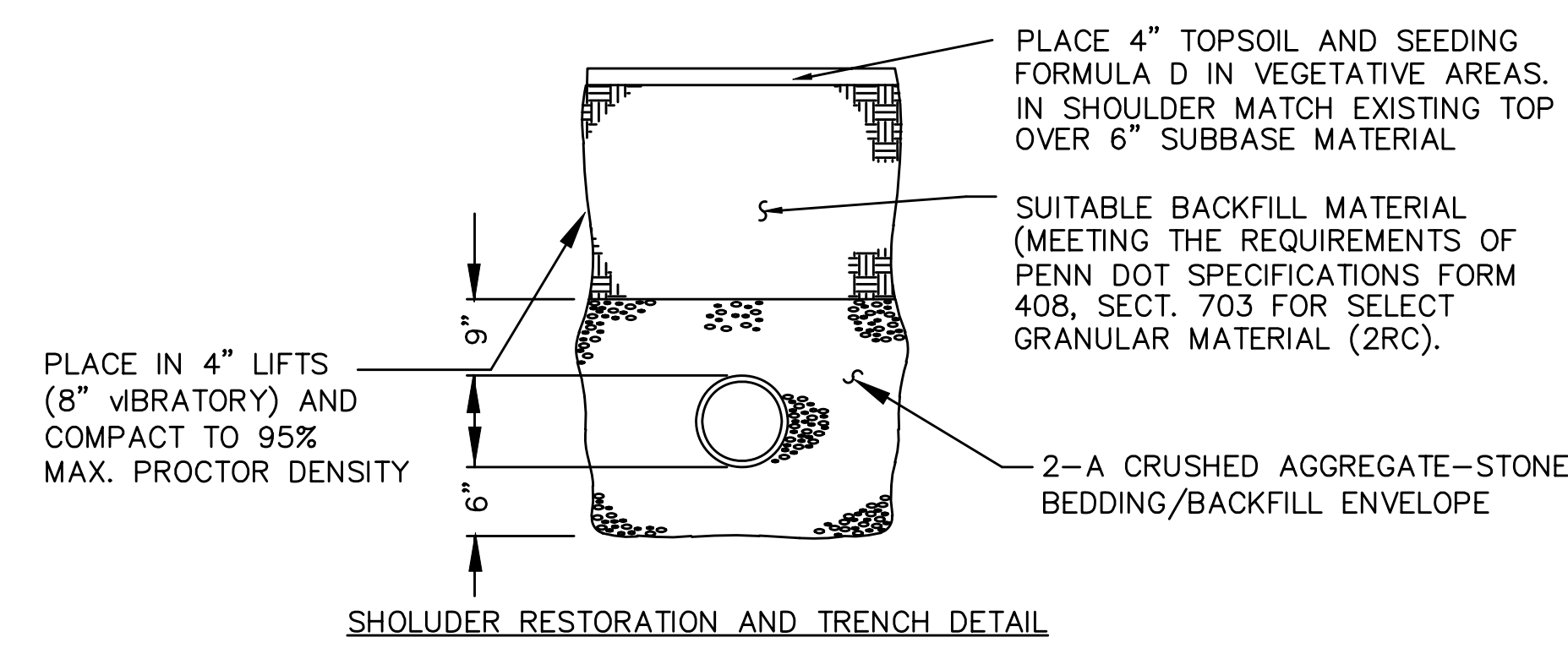
MANHOLE FRAME DETAIL
NOT TO SCALE



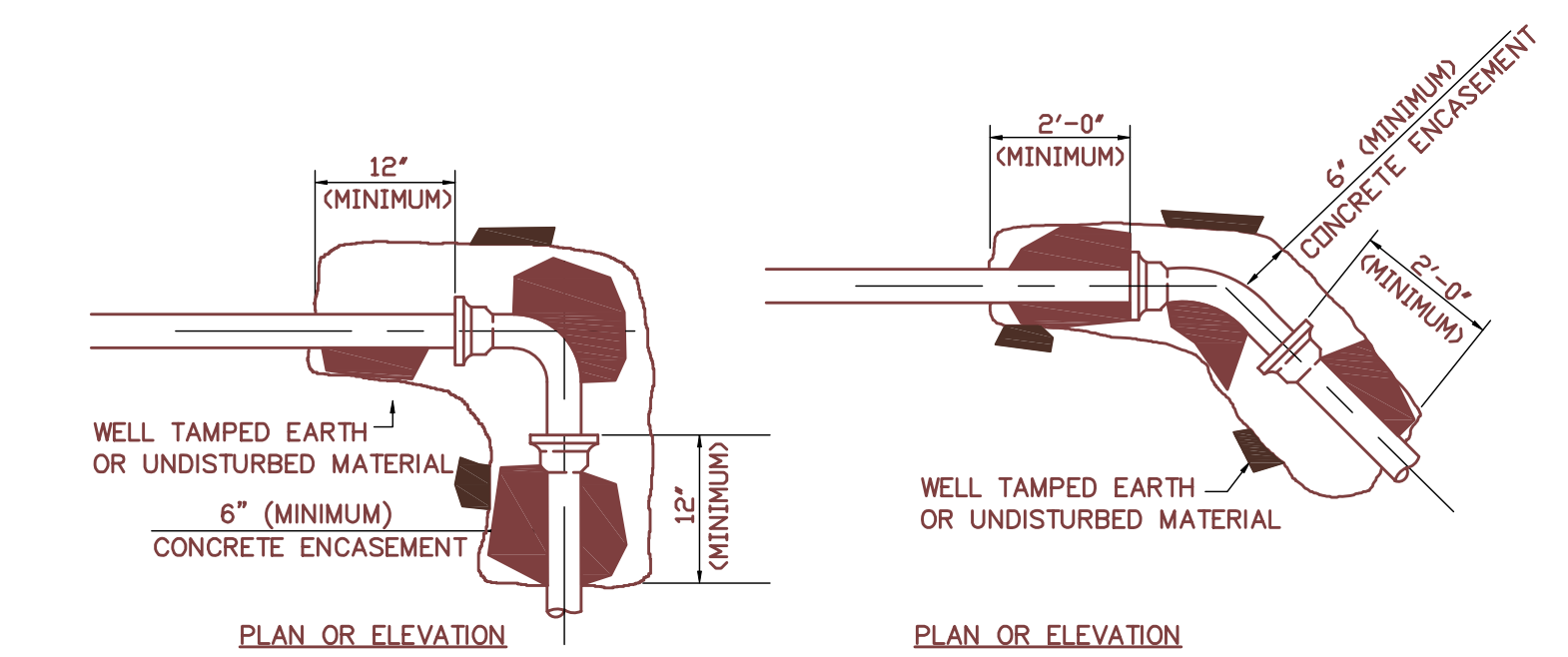
TYPICAL PRECAST MANHOLE DETAIL
NOT TO SCALE

Proposed Sanitary Sewage System																		
MH No.	CL At Sta.	Rtn Elev.	Manhole Height	Inv. In.	Inv. Out.	Distance Between MH	Slope	Mannings "n"	Pipe Diameter	X-Sept. Area	Wetted Perimeter	Hydraulic Radius	V Based On Slope (fps)	Flow Increase (gpd)	Base Flow (gpm)	Base Flow (gpm)	Remarks	
28	00+00.00	1,316.78	6.71	1,310.57	1,310.07	160.82	0.011	0.013	0.667	0.35	2.10	0.17	3.59	124,856	124,856	87	Discharge From Pump Station	
27	01+60.82	1,317.41	9.57	1,308.34	1,307.84	240.08	0.016	0.013	0.667	0.35	2.10	0.17	4.41		124,856	87		
26	04+00.90	1,311.05	7.60	1,303.95	1,303.45	225.80	0.081	0.013	0.667	0.35	2.10	0.17	9.85		124,856	87		
25	06+26.70	1,292.15	7.45	1,285.20	1,284.70	124.39	0.071	0.013	0.667	0.35	2.10	0.17	9.25		124,856	87		
24	07+51.09	1,282.70	7.38	1,275.82	1,275.32	125.49	0.048	0.013	0.667	0.35	2.10	0.17	7.62		124,856	87		
23	08+76.58	1,276.09	7.34	1,269.25	1,268.75	298.46	0.021	0.013	0.667	0.35	2.10	0.17	4.99		124,856	87		
22	11+75.04	1,269.66	7.60	1,262.56	1,262.06	56.02	0.027	0.013	0.667	0.35	2.10	0.17	5.67	2,114	126,970	88	Villa (Beginning of Phase I Flow)	
21	12+31.06	1,270.92	10.86	1,260.56	1,260.06	140.56	0.154	0.013	0.667	0.35	2.10	0.17	13.58		126,970	88		
20	13+71.62	1,256.63	18.69	1,238.44	1,237.94	353.31	0.083	0.013	0.667	0.35	2.10	0.17	9.97		126,970	88		
19	17+24.93	1,217.95	9.81	1,208.64	1,208.14	79.92	0.067	0.013	0.667	0.35	2.10	0.17	8.96		126,970	88		
18	18+04.85	1,211.11	8.82	1,202.79	1,202.29	100.00	0.010	0.013	0.667	0.35	2.10	0.17	3.46	5,788	132,758	92	Golf Course Restaurant	
17	19+04.85	1,207.93	7.14	1,201.29	1,200.79	300.00	0.010	0.013	0.667	0.35	2.10	0.17	3.45		132,758	92		
16	22+04.85	1,207.60	10.28	1,197.82	1,197.32	100.00	0.005	0.013	0.667	0.35	2.10	0.17	2.42		132,758	92		
12	23+04.85	1,209.29	12.96	1,196.83	1,196.33	288.59	0.005	0.013	1	0.79	3.14	0.25	3.22	1,800	134,558	93	RV Lot	
11	25+93.44	1,209.89	15.51	1,194.88	1,194.38	216.25	0.005	0.013	1	0.79	3.14	0.25	3.19		134,558	93		
10	28+09.69	1,209.88	17.07	1,193.31	1,192.81	373.33	0.005	0.013	1	0.79	3.14	0.25	3.32		134,558	93		
9	31+83.02	1,204.83	14.52	1,190.81	1,190.31	335.00	0.005	0.013	1	0.79	3.14	0.25	3.22	146,298	280,856	195	Hotel/Casino	
8	35+18.02	1,199.97	11.85	1,188.62	1,188.12	399.57	0.005	0.013	1	0.79	3.14	0.25	3.20		280,856	195		
7	39+17.59	1,200.02	14.39	1,186.13	1,185.63	78.80	0.005	0.013	1	0.79	3.14	0.25	3.15		280,856	195		
6	39+96.39	1,199.34	14.59	1,185.25	1,184.75	207.41	0.076	0.013	1	0.79	3.14	0.25	12.51		280,856	195		
5	42+03.80	1,176.99	8.51	1,168.98	1,168.48	306.96	0.005	0.013	1	0.79	3.14	0.25	3.20		280,856	195		
4	45+10.76	1,178.15	11.70	1,166.95	1,166.45	110.53	0.005	0.013	1	0.79	3.14	0.25	3.20		280,856	195		
3	46+21.29	1,178.20	12.80	1,165.90	1,165.40	170.60	0.005	0.013	1	0.79	3.14	0.25	3.16	6,727	287,583	200		
2	47+91.89	1,174.45	10.38	1,164.57	1,164.07	289.33	0.053	0.013	1	0.79	3.14	0.25	10.45		287,583	200		
1	50+81.22	1,152.70	4.47	1,148.73	1,148.23	13.33	0.008	0.013	1	0.79	3.14	0.25	3.93		287,583	200	WWTP	
WWTP	50+94.55	1,152.20	4.07	1,148.13	NA	NA	NA	0.000	0.013	1	0.79	3.14	0.25	0.00		287,583	200	WWTP

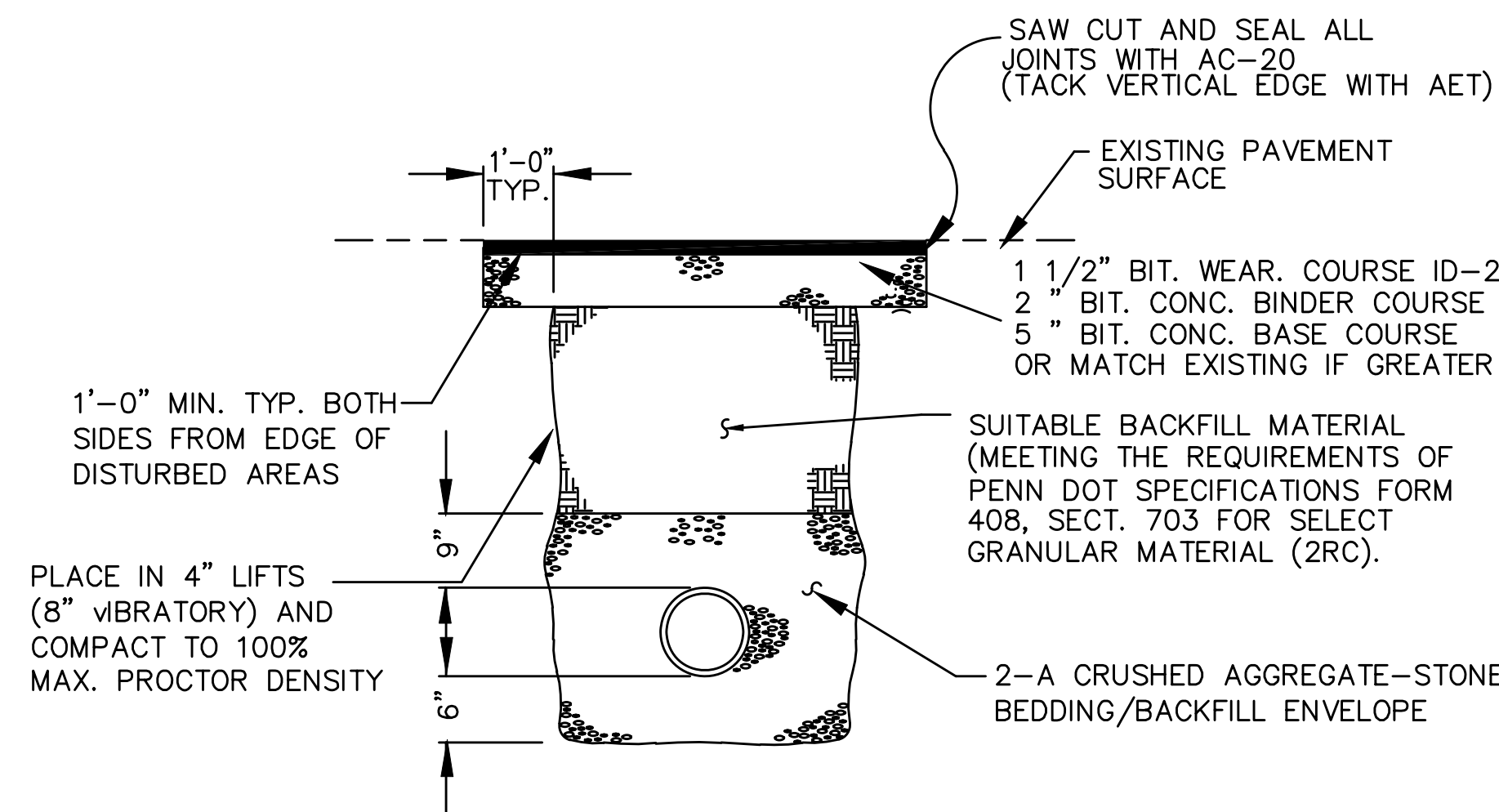
Average Capacity = 5.50 Total = 287,583 200
Note: Flow rates assume full pipe capacity



PIPE BEDDING AND ENCASEMENT DETAILS
NOT TO SCALE



TYPICAL ALL PRESSURE LINE FITTINGS CONCRETE THRUST BLOCKS



ROADWAY RESTORATION AND TRENCH DETAIL
N.T.S.

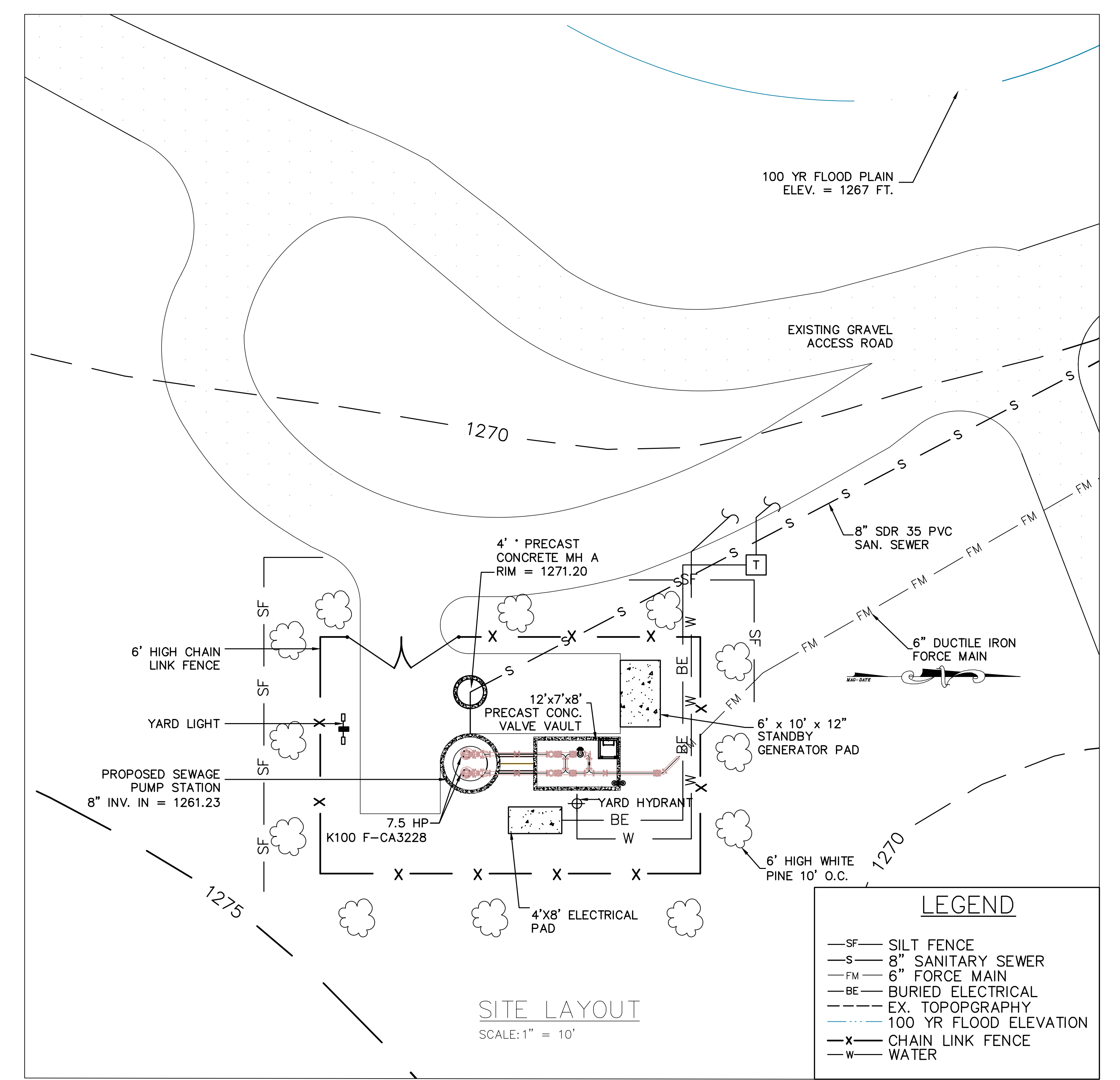
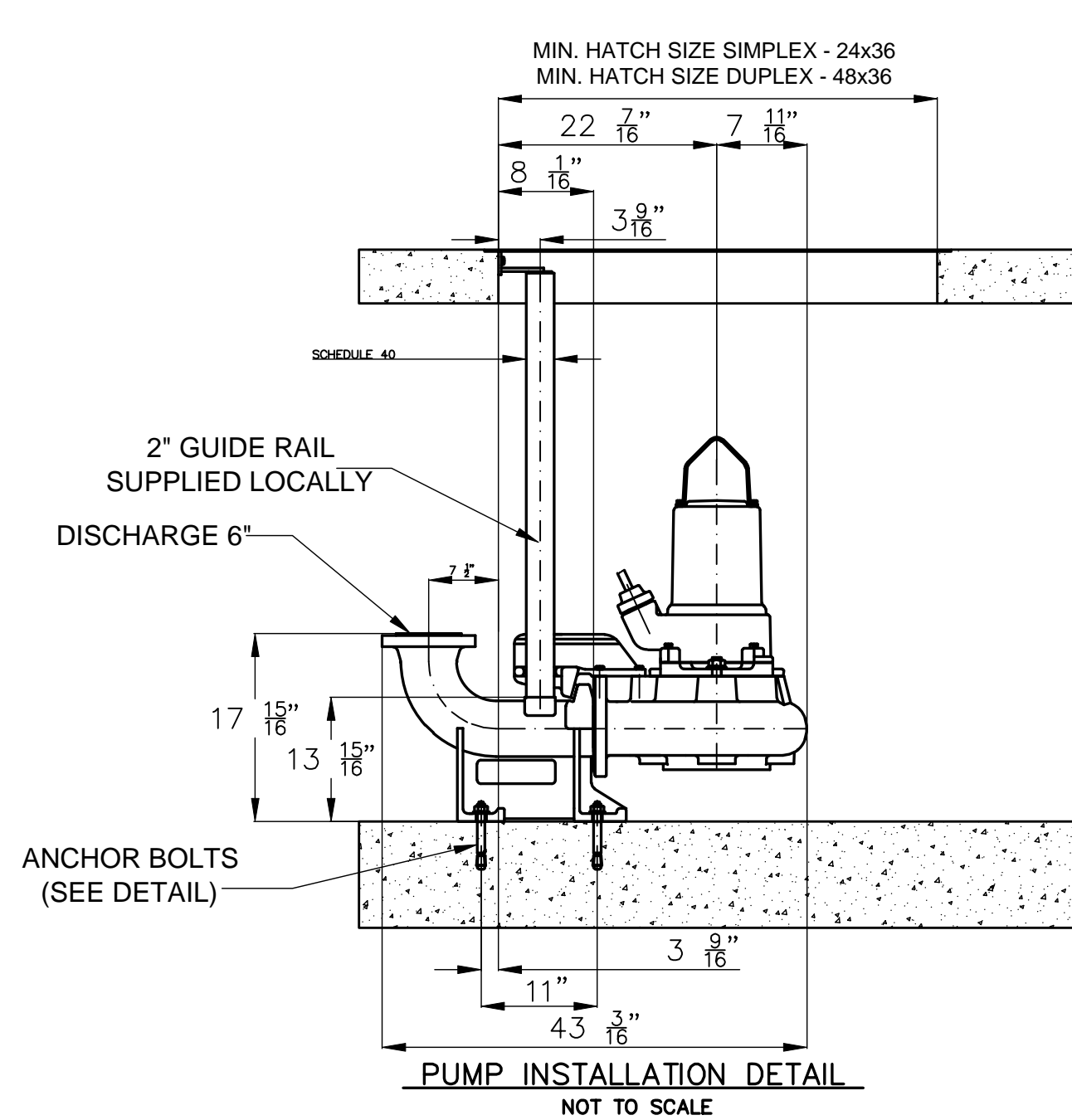
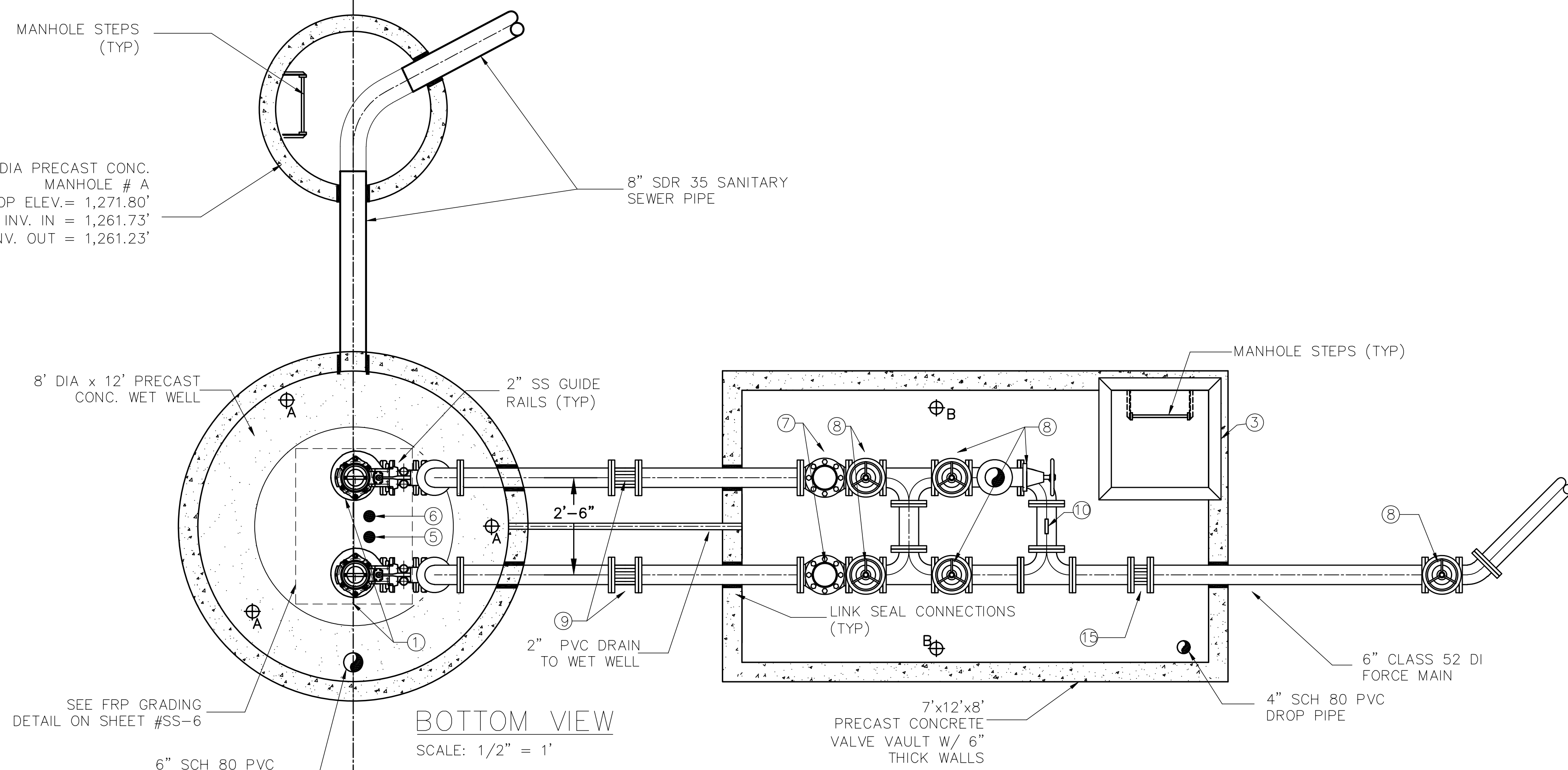
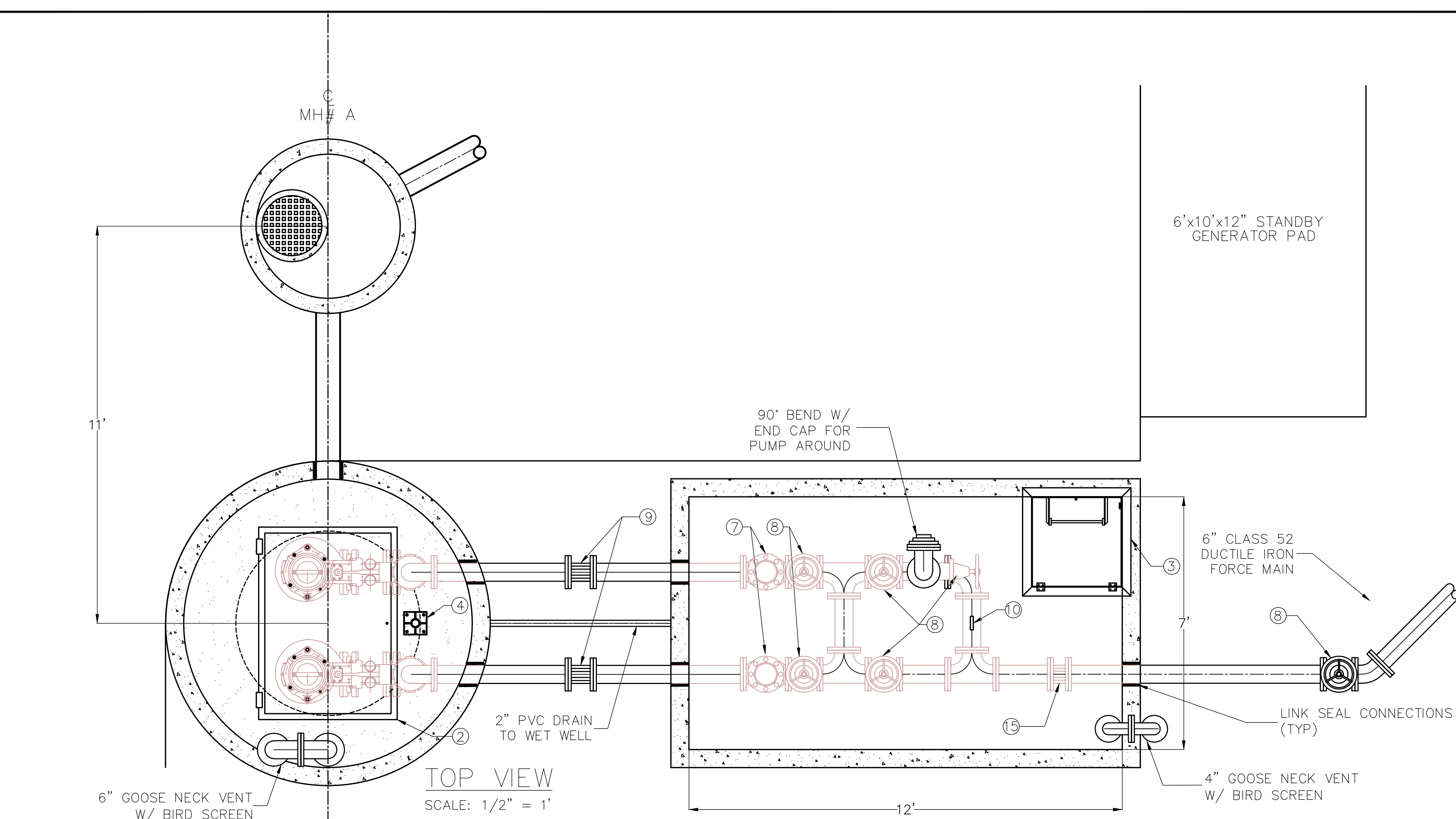
SPECIFICATION

- GRAVITY SEWER LINE SHALL BE HDPE SEWER MAIN SDR-35 MEETING ASTM D2241
- FORCE MAIN SHALL BE 6" CLASS 52 DI PRESSURE PIPE MEETING ASTM 1785
- PRECAST CONCRETE MANHOLES SHALL MEET THE REQUIREMENTS ASTM C478
- SUBMERSIBLE PUMPS SHALL BE PUMPEX K100 F-CA3228 VORTEX PUMP CAPABLE OF DELIVERING 217 GPM @ 65 TDH. MOTOR SHALL BE 7.5 HP - 3 PHASE - 60 HERTZ 120/208 VOLTAGE.
- ACCESS COVER SHALL BE HALLIDAY PRODUCTS - SERIES WIS ACCESS DOOR (SEE DETAILS)
- EXHAUST FANS SHALL BE GREENHECK MODEL G101 CAPABLE OF DELIVERING 747 CFM FOR A MINIMUM OF 30 AIR CHANGES PER HOUR.
- FORCEMAIN CHECK VALVE SHALL BE A SINGER RED-VALVE SERIES 39 WITH A 6" NOMINAL DIAMETER CAPABLE OF WITHSTANDING 200 POUNDS OF PRESSURE
- FLOW CONTROL VALVES SHALL BE A SINGER RED-VALVE SERIES 75 PINCH VALVES. ALL INTERNAL COMPONENTS MUST BE RESISTANT TO LEACHATE CORROSION.
- PRESSURE GAUGE SHALL BE REDVALVE SERIES 40W WITH A RANGE FROM 0 TO 300 PSI.
- VALVE VAULT DRAIN CHECK SHALL BE A 2" RED-VALVE TIDEFLEX CHECK VALVE SERIES TF-1

SANITARY SEWAGE SYSTEM DETAILS	
MOUNT AIRY #1 L.L.C.	
LAND DEVELOPMENT	
PARADISE TOWNSHIP, MONROE COUNTY	
PENNSYLVANIA	
consulting engineers	
p.o. box 995, scranton, pa. 18501 570-342-3101	
ceco associates inc.	

REVISIONS	DATE
DESIGNED A.J.M.	DRAWN A.J.M.
CHECKED A.C.B.	SCALE N/A
DATE 05-01-01	SHEET NO. 08-23-05

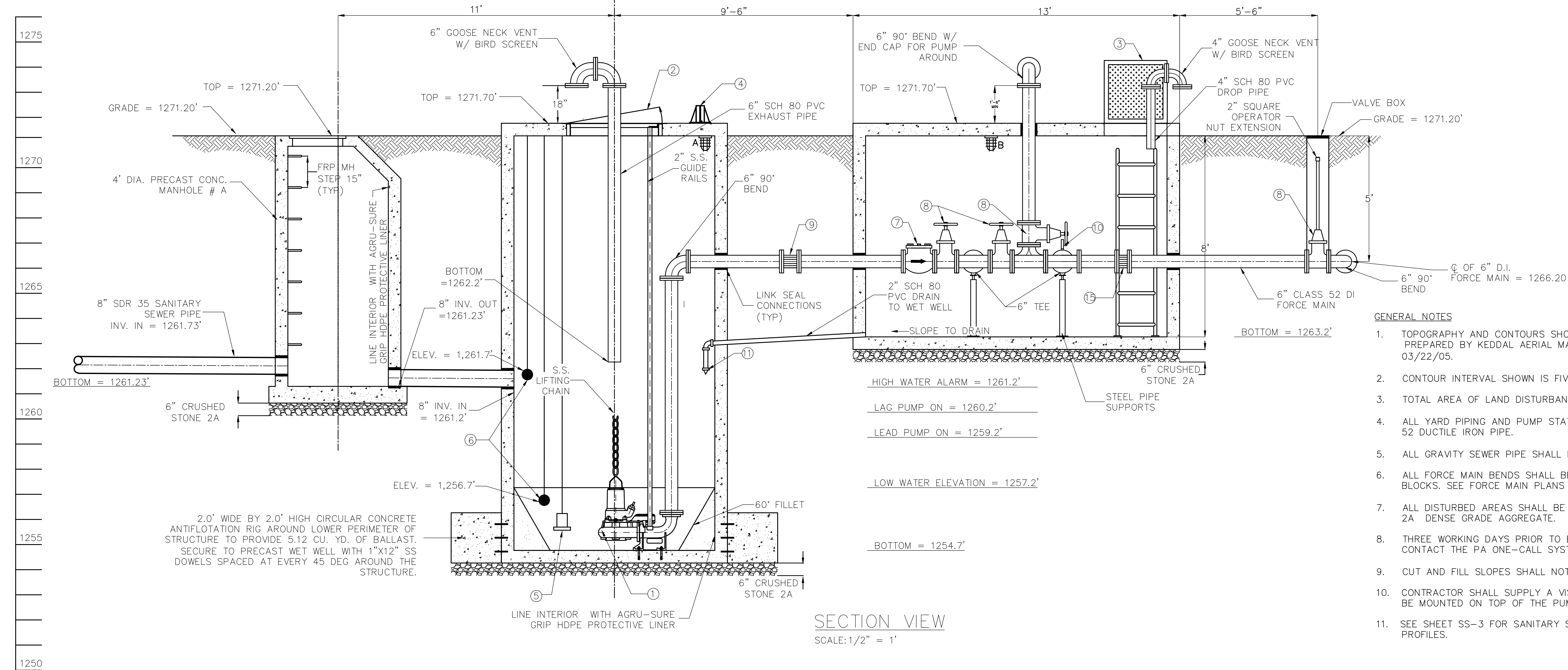
- NOTE:
1. COAT THE OUTSIDE OF THE VALVE VAULT AND WET WELL WITH TWO COATS OF BITUMISTIC
 2. LINE THE INTERIOR OF THE WET WELL WITH "AGRU-SURE GRIP" HDPE LINING SYSTEM (OR EQUAL).
 3. CONTRACTOR TO PROVIDE E-ZLIFT CHAIN DEVICE TO AID PUMP REMOVAL.
 4. ALL ELECTRICAL AND MECHANICAL DEVICES IN WET WELL TO USE STAINLESS STEEL FASTENERS.
 5. NO EXPOSED CONDUITS ON TOP OF ANY STRUCTURE ALLOWED.
 6. CONTRACTOR SHALL INSTALL 1/4" FRP GRATING OVER WET WELL ACCESS HATCHES. (SEE DETAIL ON SHEET SS-6)



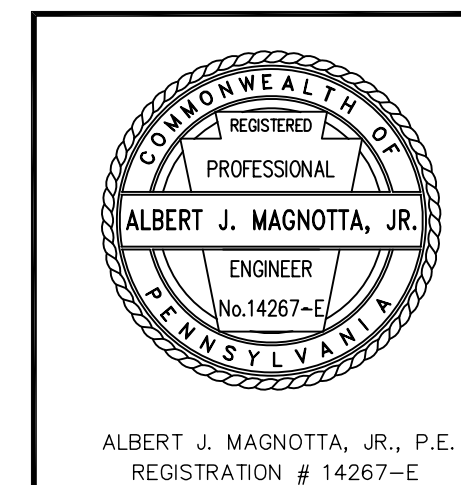
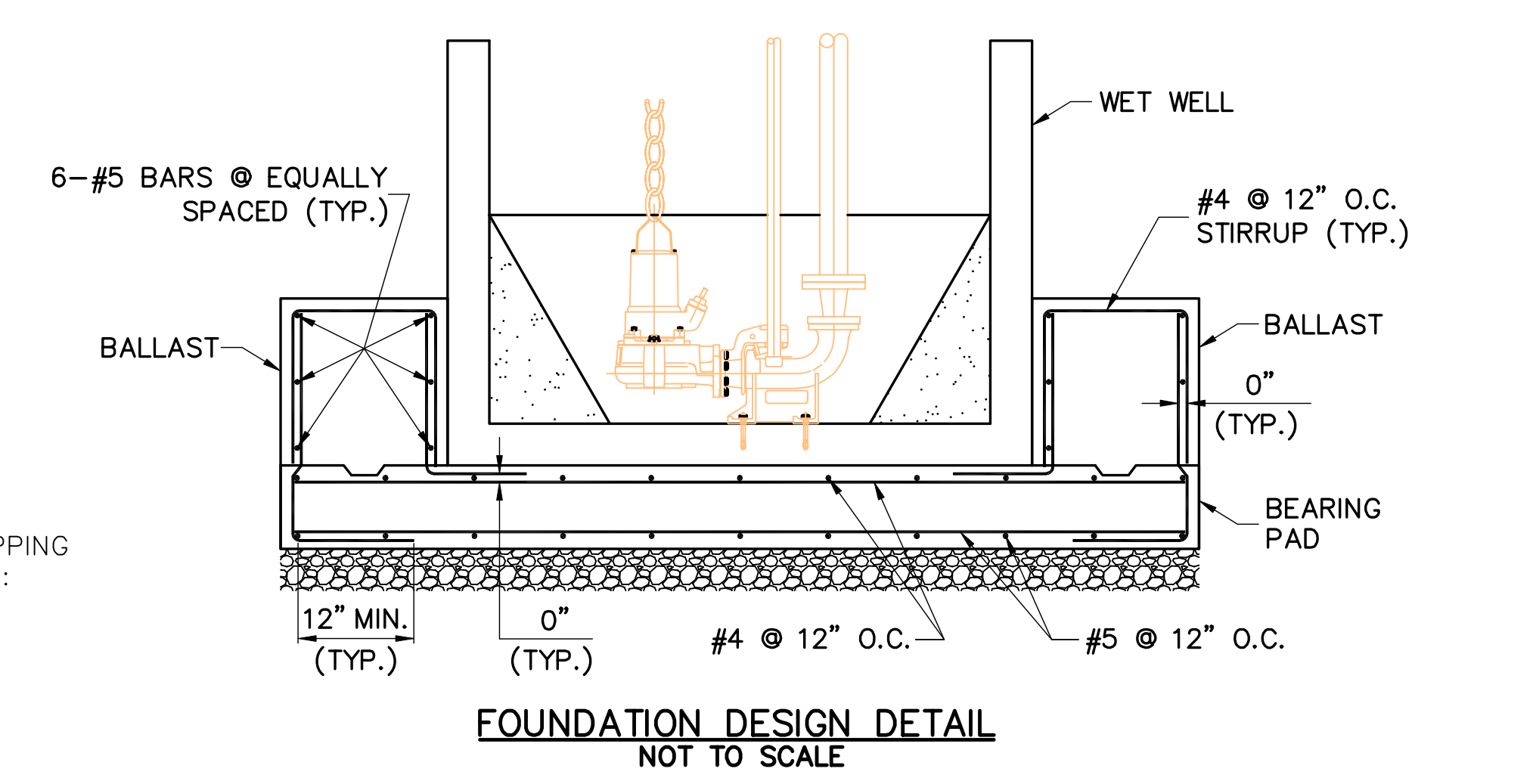
LEGEND

- SF- SILT FENCE
- S- 8" SANITARY SEWER
- FM- 6" FORCE MAIN
- BE- BURIED ELECTRICAL
- EX- TOPOGRAPHY
- 100 YR FLOOD ELEVATION
- X- CHAIN LINK FENCE
- W- WATER

#	PART NAME	MANUFACTURER	MODEL NO.	QTY	REMARKS
1	SUBMERSIBLE PUMP	PUMPEX	K100 F-CA3228	2	7.5 HP
2	36"x48" ACCESS HATCH	HALLIDAY	W2S3648	1	SINGLE LEAF
3	30"x30" ACCESS HATCH	HALLIDAY	WIS3030	1	SINGLE LEAF
4	1/2 TON HOIST	HALLIDAY	D2B36B	1	BASE MODEL NO: D2F
5	PRESSURE TRANSDUCER	CONTEGRA	SLX 130-M	1	
6	FLOATS	US FILTER	9G	2	
7	6" SWING CHECK VALVE	MILLIKEN	AWWA C-508-93	2	CV W/ LIMIT SWITCH
8	6" WEDGE VALVE	MUELLER	A-2361	6	
9	PIPE COUPLING	DRESSER	STYLE 38	2	
10	PRESSURE GAUGE	ASHCROFT	1032	1	
11	TIDEFLEX CHECK VALVE	RED VALVE	TF-1	1	W/ SS BAND
12	DIESEL GENERATOR	ONAN / CUMMINS	DG8B, 44KW	1	PORTABLE
13	PUMP CONTROL	CONTEGRA	SM 2000	1	PUMP AND ALARM
14	YARD LIGHT	RUUD	RR425MP	1	
15	FLOW METER	EASTECH/BADGER		1	ULTRASONIC



- GENERAL NOTES**
1. TOPOGRAPHY AND CONTOURS SHOWN TAKEN FROM AERIAL MAPPING PREPARED BY KEDDAL AERIAL MAPPING, PHOTOGRAPHY DATED: 03/22/05.
 2. CONTOUR INTERVAL SHOWN IS FIVE (5) FOOT.
 3. TOTAL AREA OF LAND DISTURBANCE = 0.682 AC.
 4. ALL YARD PIPING AND PUMP STATION FORCE MAIN SHALL BE 6" CLASS 52 DUCTILE IRON PIPE.
 5. ALL GRAVITY SEWER PIPE SHALL BE 8" SDR-35 HDPE.
 6. ALL FORCE MAIN BENDS SHALL BE BLOCKED WITH CONCRETE THRUST BLOCKS. SEE FORCE MAIN PLANS FOR DETAILS.
 7. ALL DISTURBED AREAS SHALL BE SURFACED WITH 4" OF PENNDOT NO. 2A DENSE GRADE AGGREGATE.
 8. THREE WORKING DAYS PRIOR TO EXCAVATION THE CONTRACTOR MUST CONTACT THE PA ONE-CALL SYSTEM INC., PHONE: 1-800-242-1776.
 9. CUT AND FILL SLOPES SHALL NOT EXCEED A 3:1 (H:V) GRADE.
 10. CONTRACTOR SHALL SUPPLY A VISUAL AND AUDIBLE ALARM SYSTEM TO BE MOUNTED ON TOP OF THE PUMP CONTROL PANEL.
 11. SEE SHEET SS-3 FOR SANITARY SEWER FORCE MAIN & COLLECTION PROFILES.



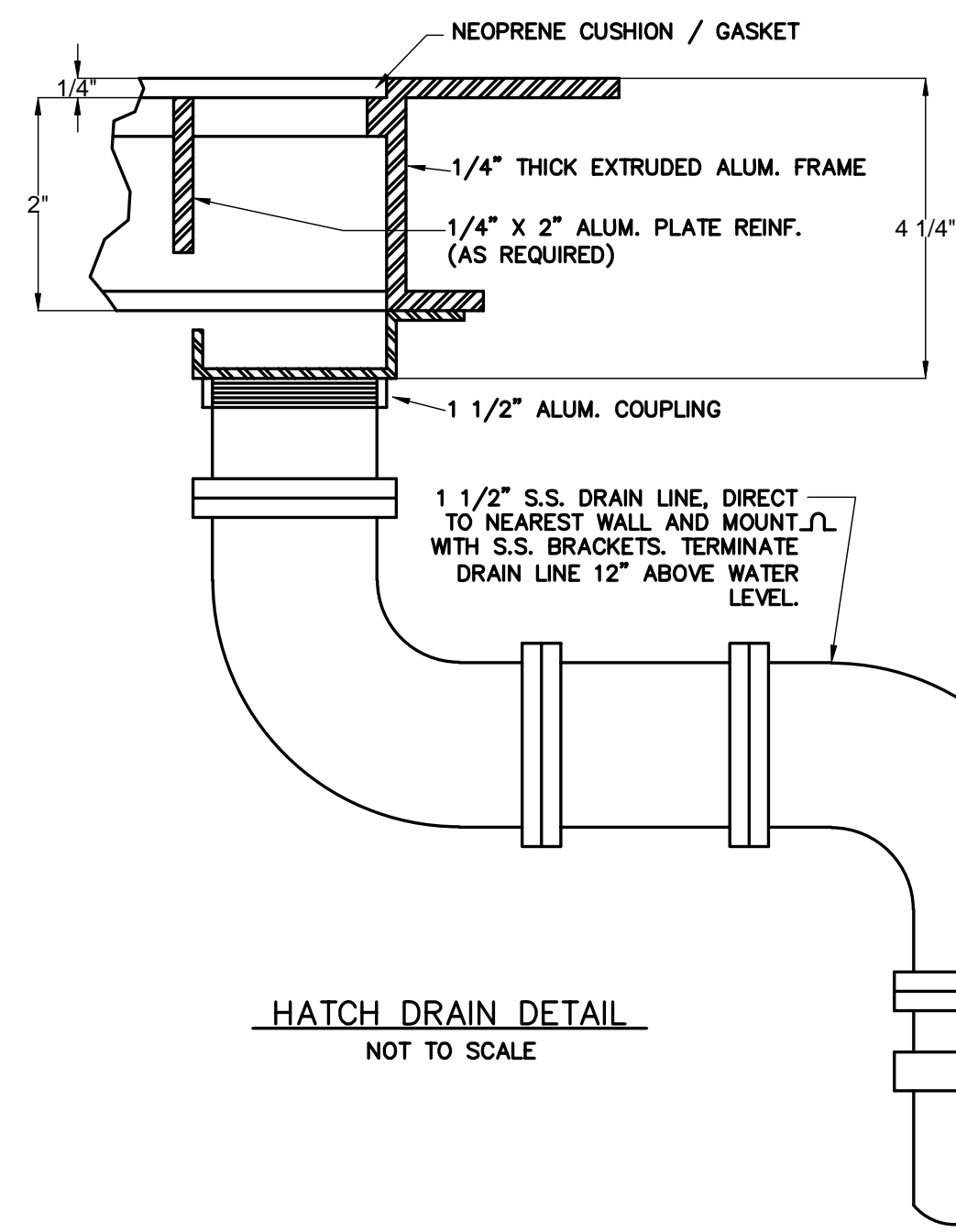
SANITARY SEWER SYSTEM
MOUNT AIRY #1 L.L.C.
LAND DEVELOPMENT
PARADISE TOWNSHIP, MONROE COUNTY
PENNSYLVANIA

consulting engineers
ceco associates inc.

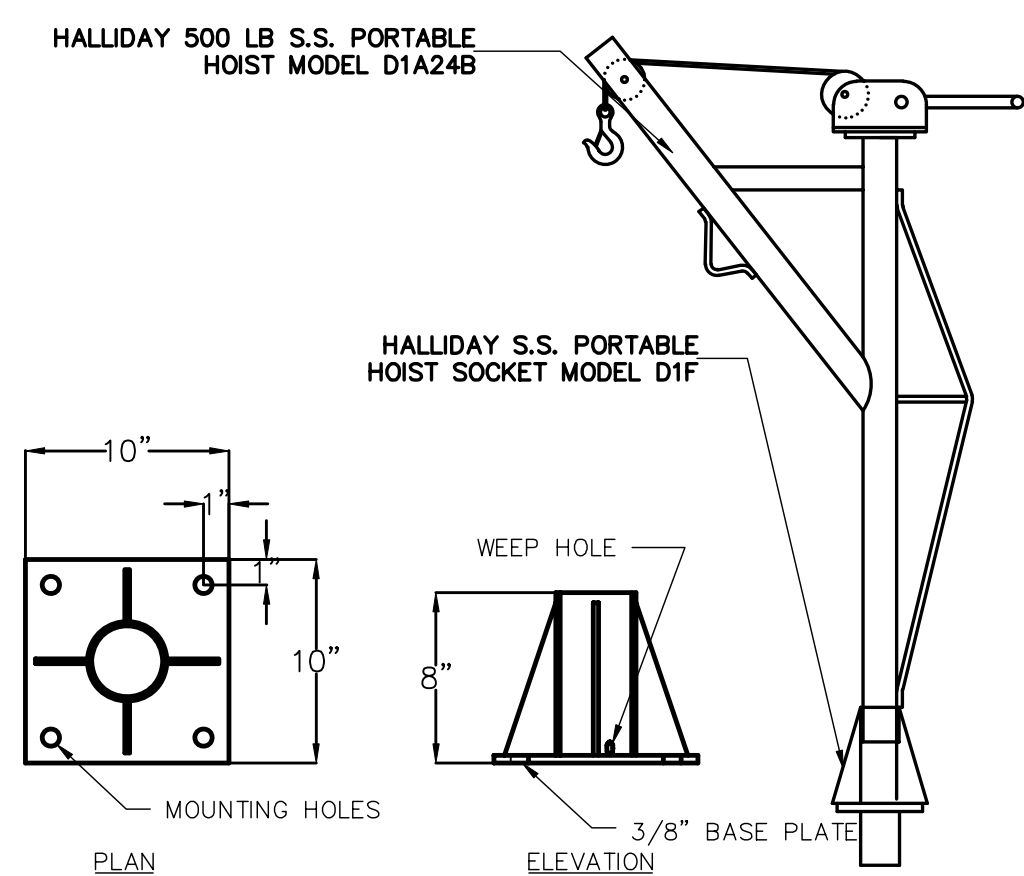
18501 570-342-3101

REVISIONS	DATE	DRAWN	CHECKED
A.J.M.	A.J.M.		
A.C.B.	N/A		
05-01-01	08-23-05		

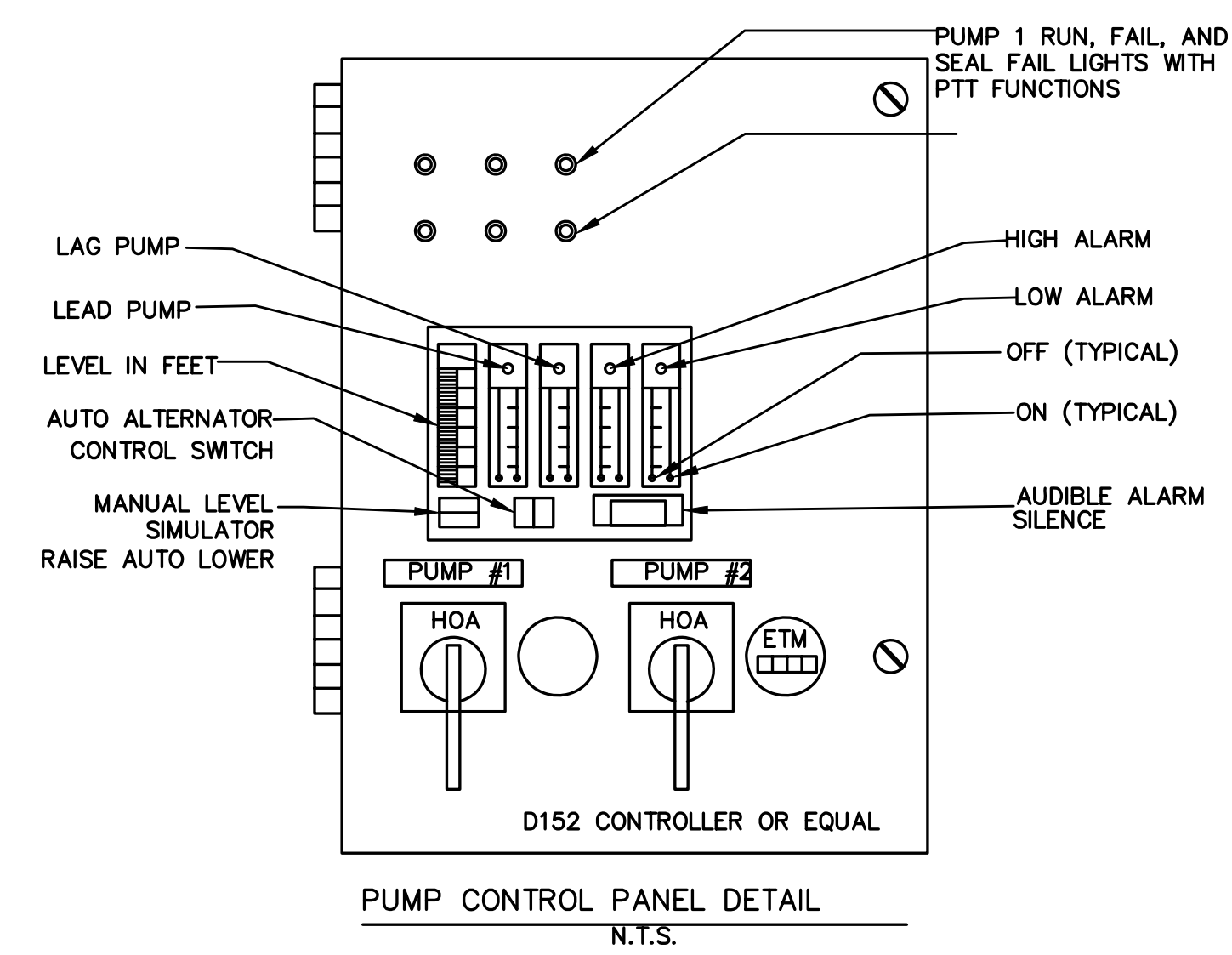
SHEET NO. **SS-5**



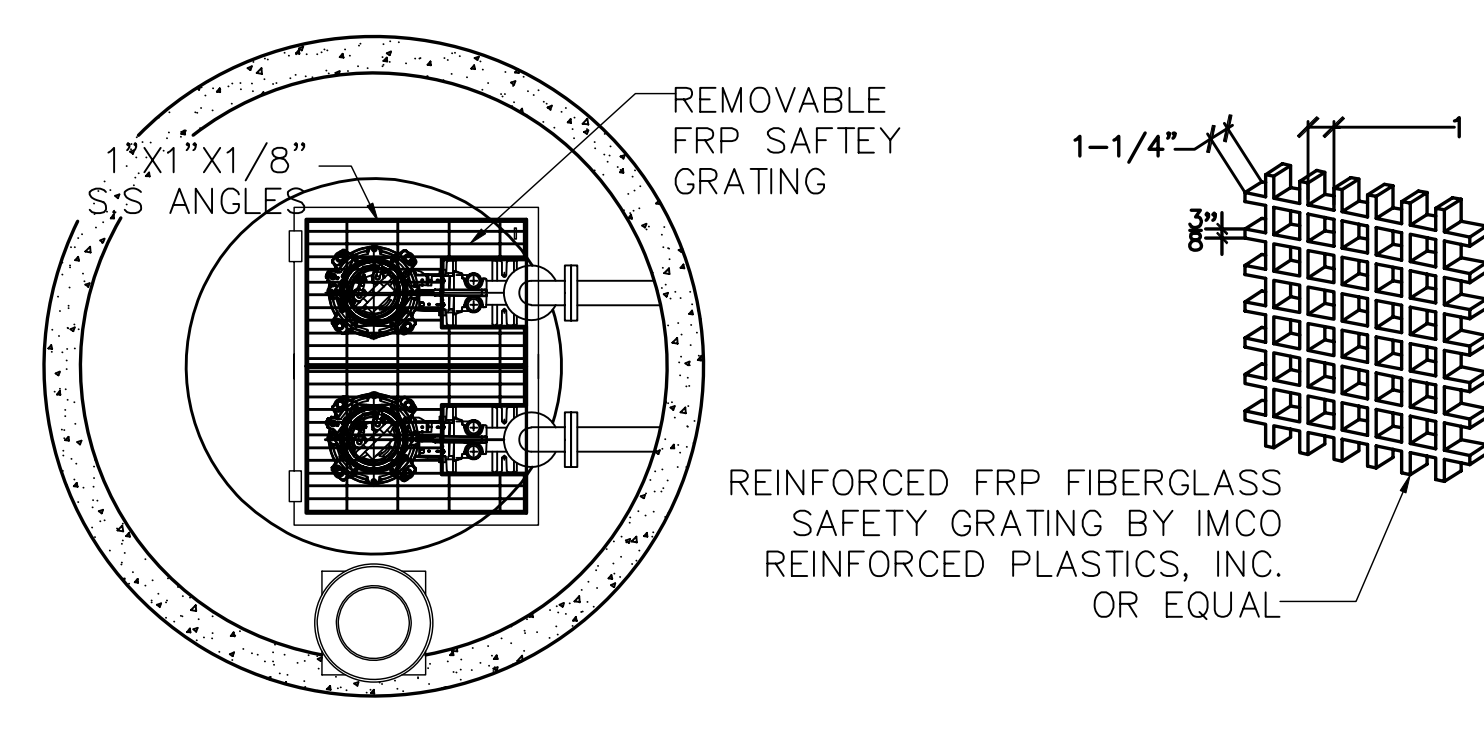
HATCH DRAIN DETAIL
NOT TO SCALE



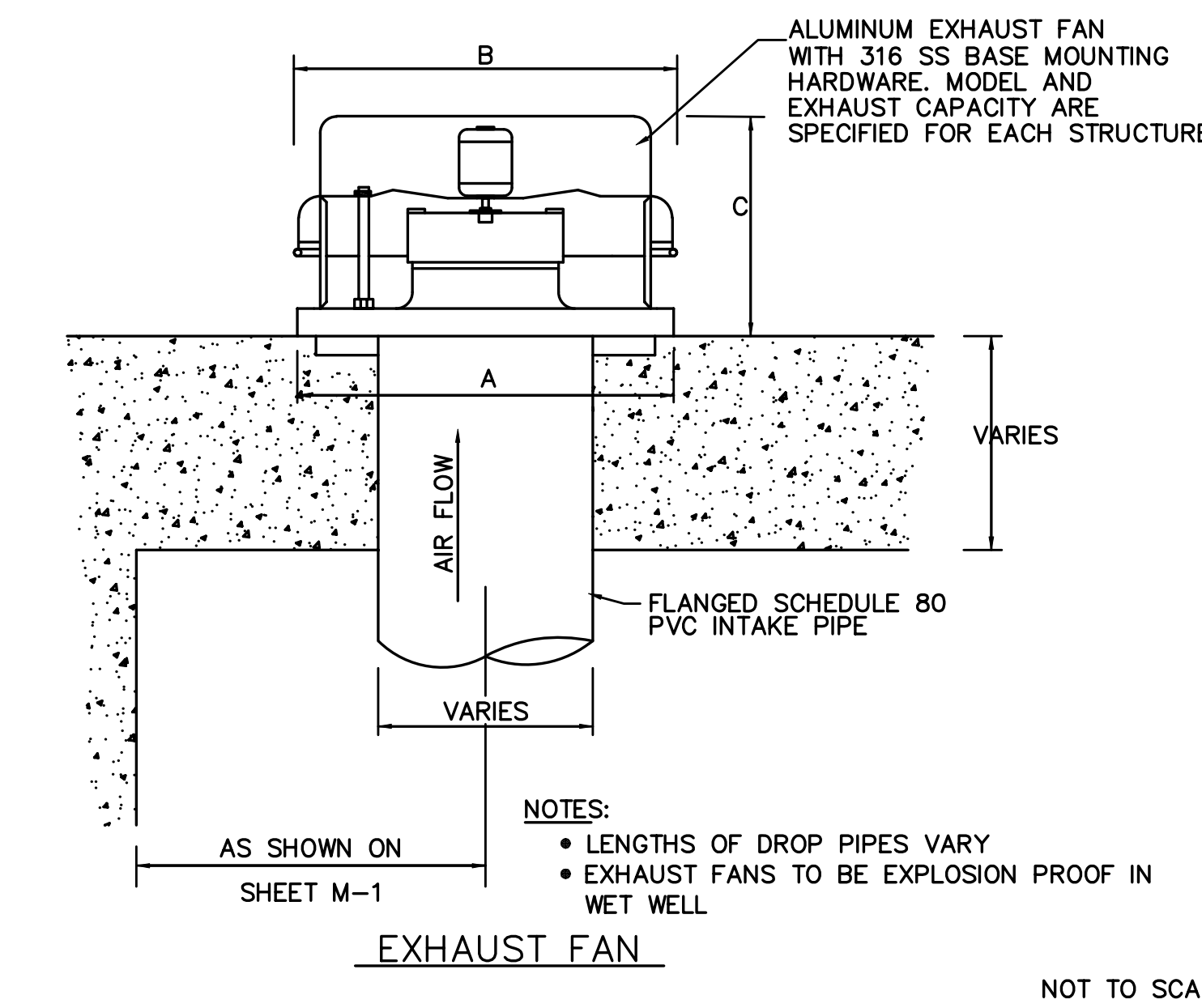
1/2 TON HALLIDAY HOIST AND SOCKET DETAIL
NOT TO SCALE



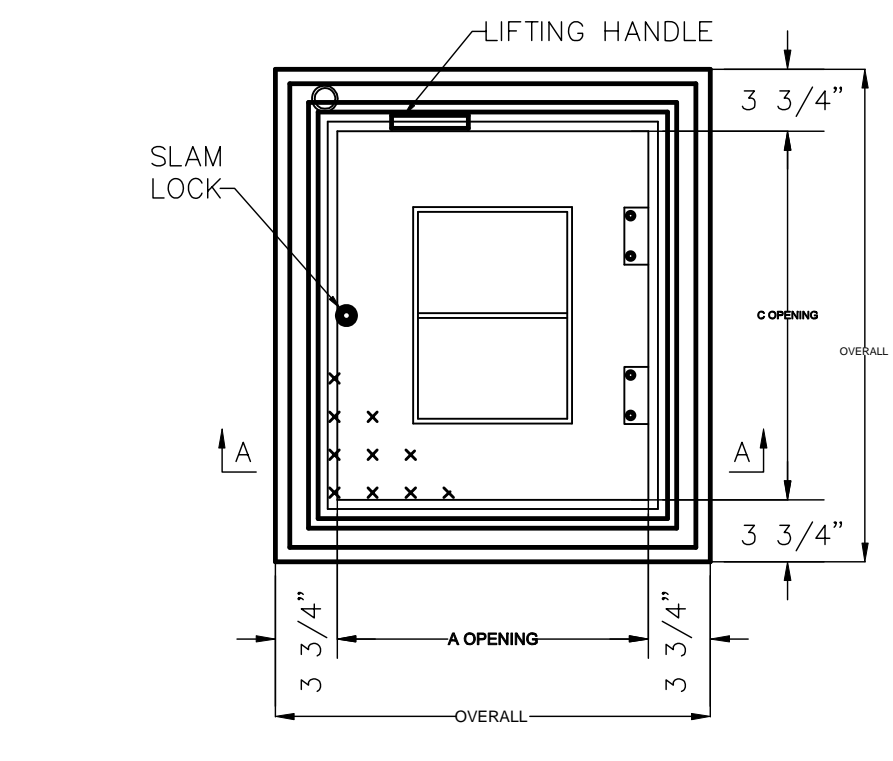
PUMP CONTROL PANEL DETAIL
N.T.S.



FRP SAFETY GRATING DETAIL
NOT TO SCALE

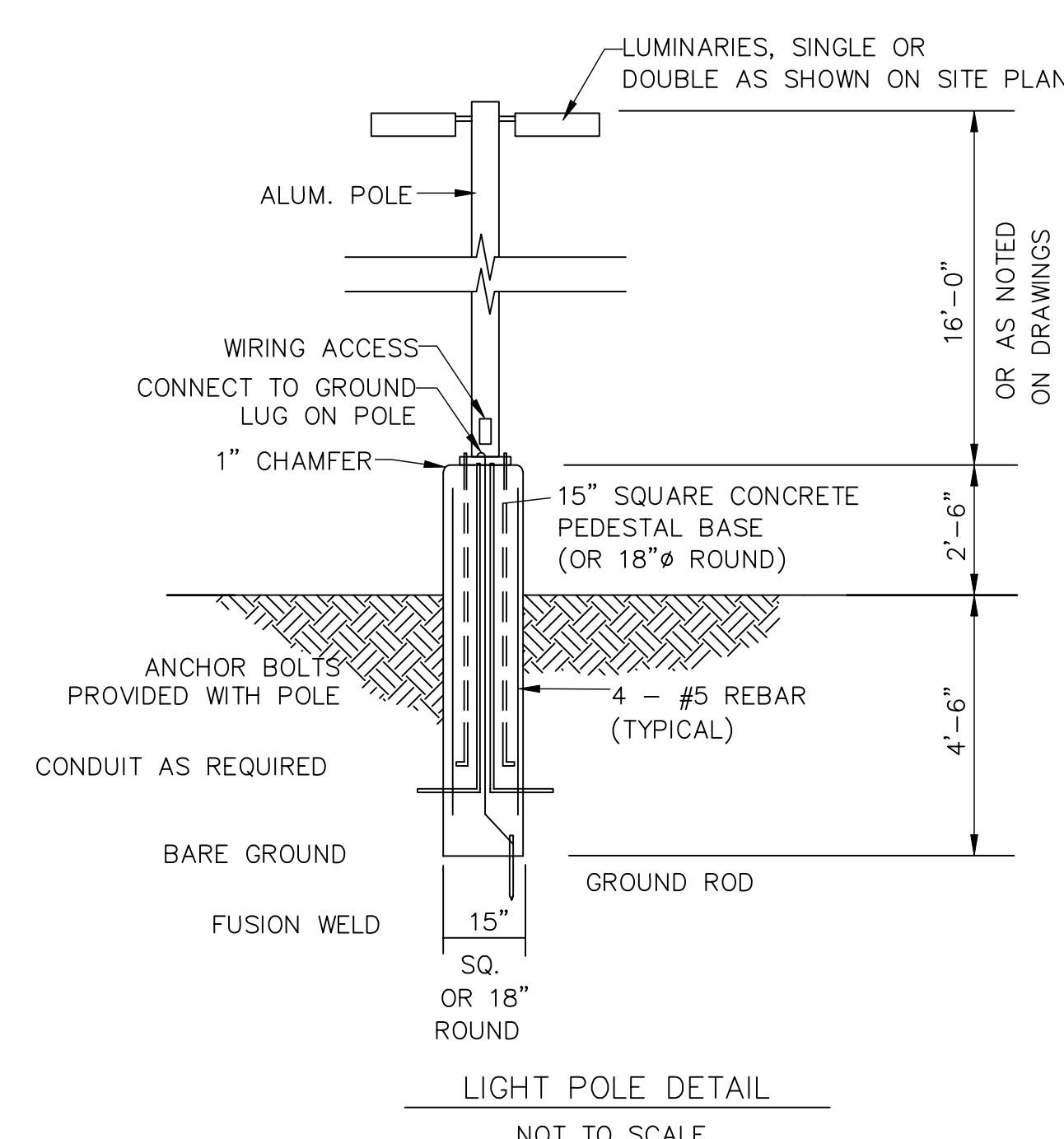


EXHAUST FAN
NOT TO SCALE

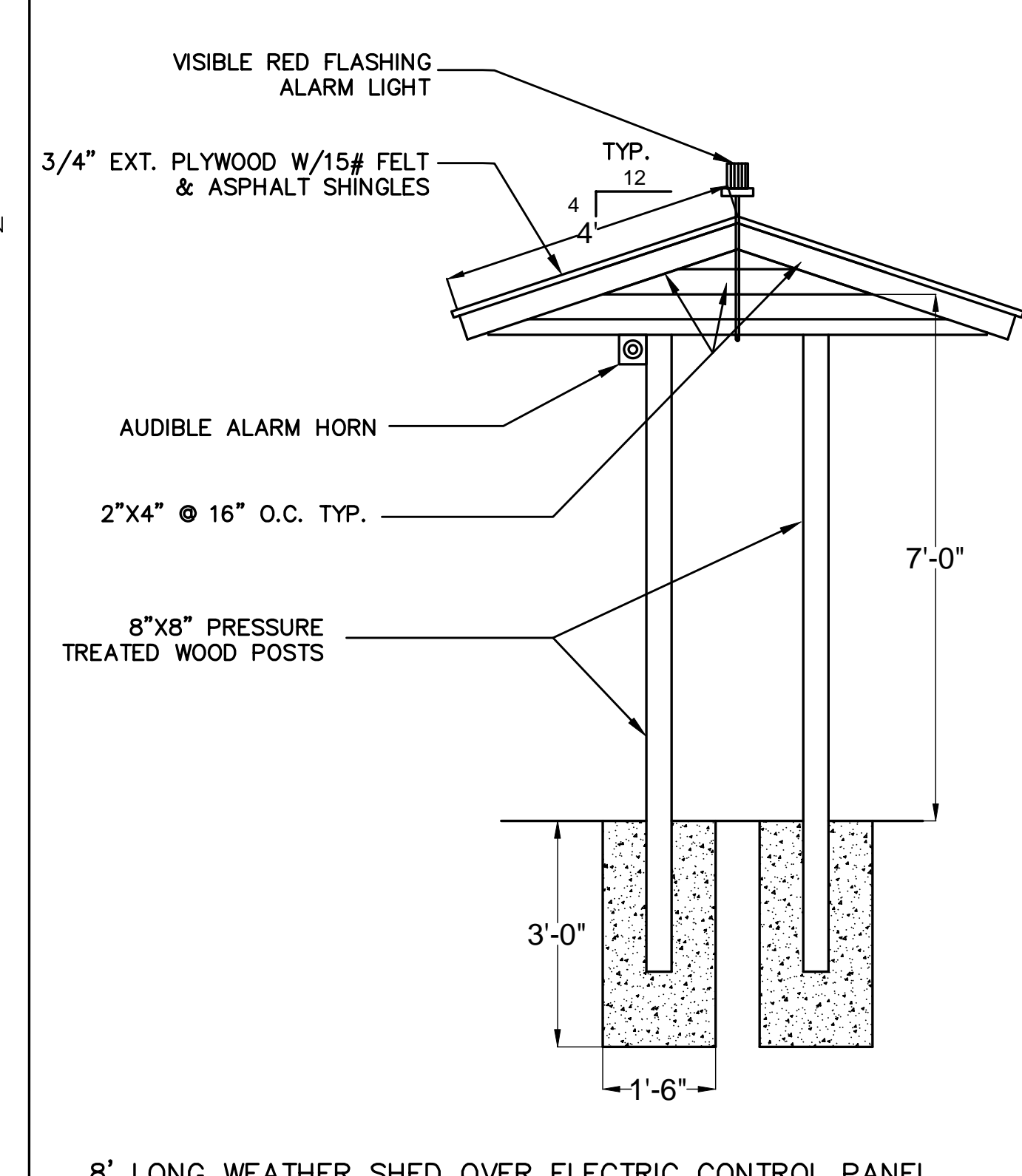


QTY	MODEL NO.	DIMENSIONS (LBS.)	UNIT WT (LBS.)
1	WIS3030	30" x 30"	62
1	WIS3648	36" x 48"	106

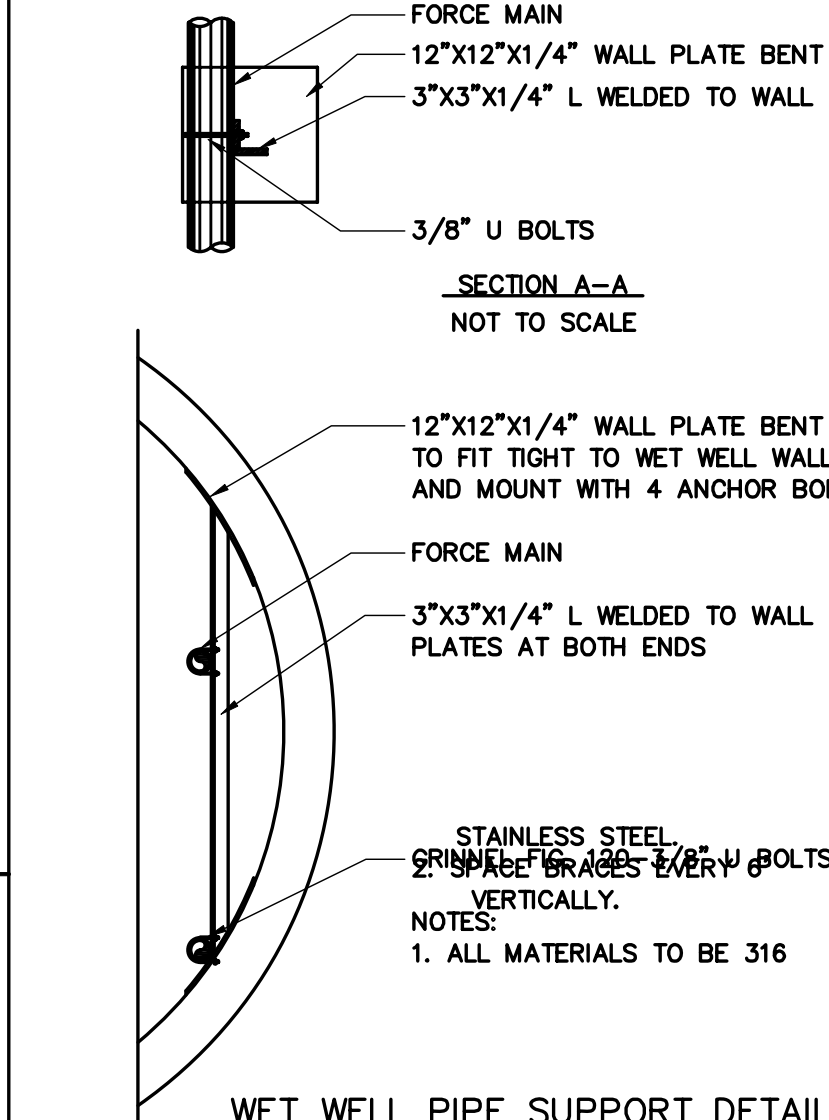
SERIES WIS ACCESS DOOR
NOT TO SCALE



LIGHT POLE DETAIL
NOT TO SCALE

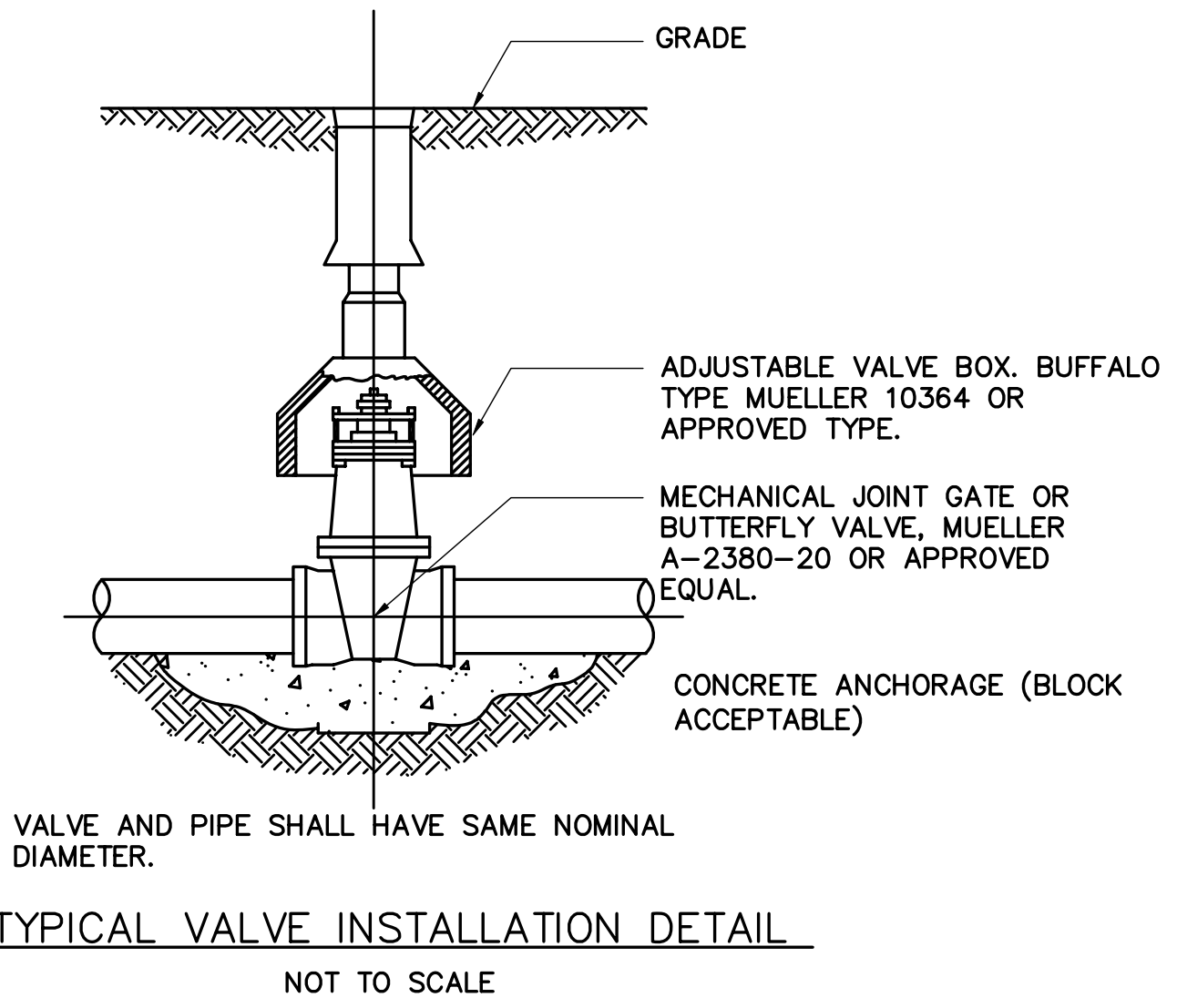


8' LONG WEATHER SHED OVER ELECTRIC CONTROL PANEL
NOT TO SCALE

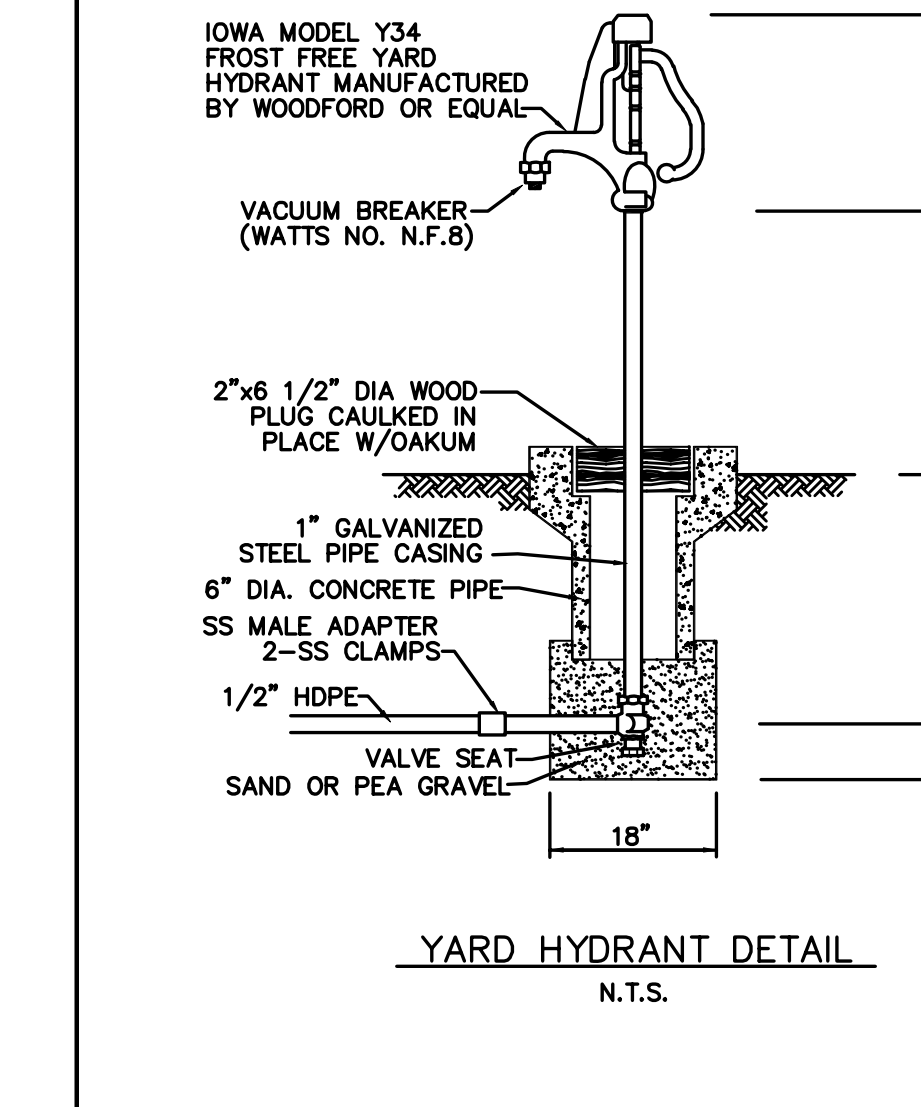


WET WELL PIPE SUPPORT DETAIL
NOT TO SCALE

FIXTURE TYPE	MANUFACTURER	CATALOG NO.	LAMP		VOLTS	MOUNTING	LOCATION	REMARKS
			NO.	TYPE				
A	APPELTON	MLWF643 G2GAL	3	32WPLT	120	WALL	WET WELL	VAPOR TIGHT, WATERTIGHT, NEMA 4X, UL LISTED FOR CLASS 1, DIVISION II, CLASS 2, DIVISION 1 & 2, CLASS 3 AND SIMULTANEOUS PRESENCE
B	APPELTON	VC1075G-A	2	100W INC.	120	WALL	VALVE VAULT	ENCLOSED AND GASKETED + WATER TIGHT
C	RUUD	RR425MP PS4S15CBZ	1	250W MH	120	POLE	OUTSIDE	WITH PHOTO CELL ON 15 FT. POLE



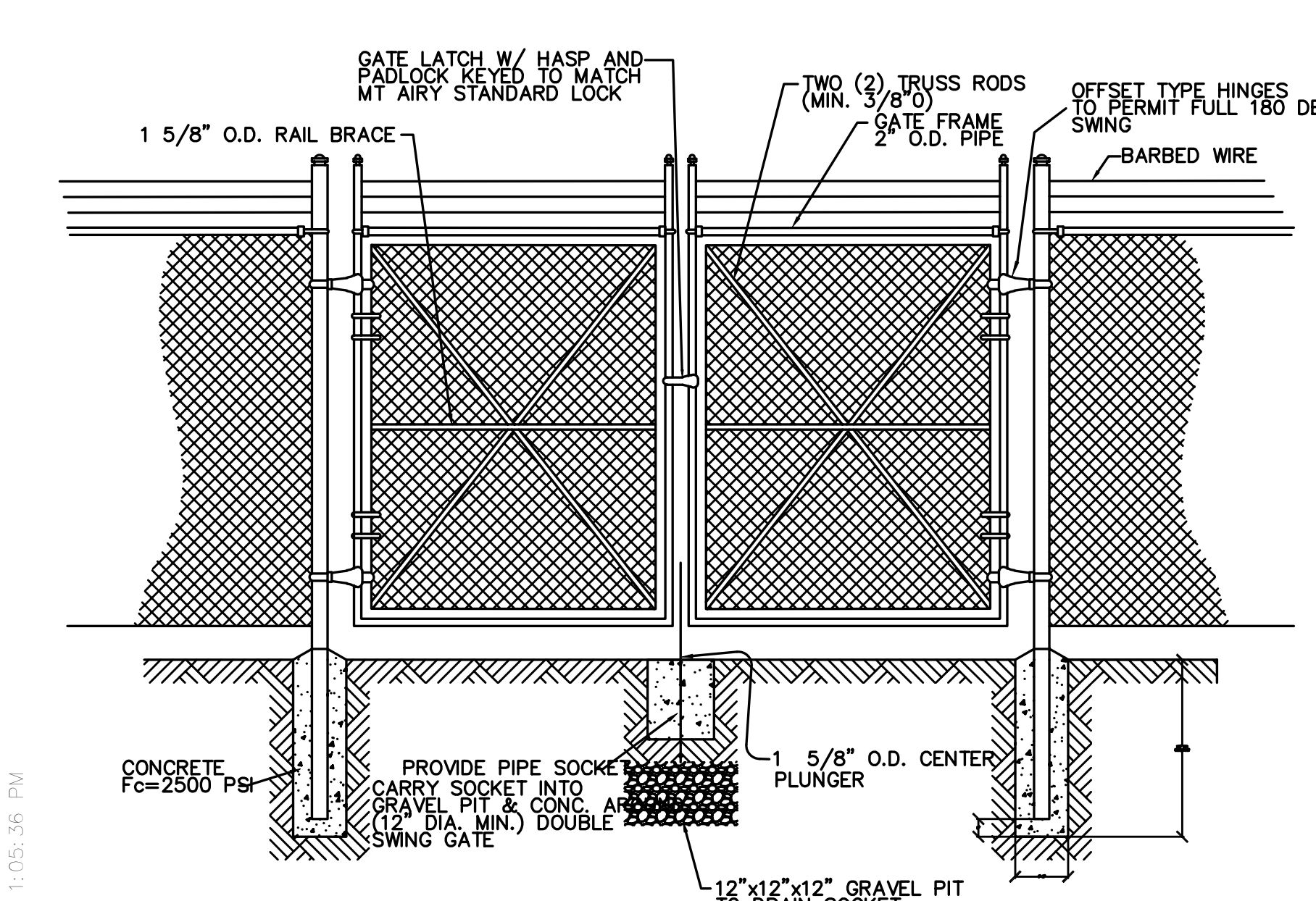
TYPICAL VALVE INSTALLATION DETAIL
NOT TO SCALE



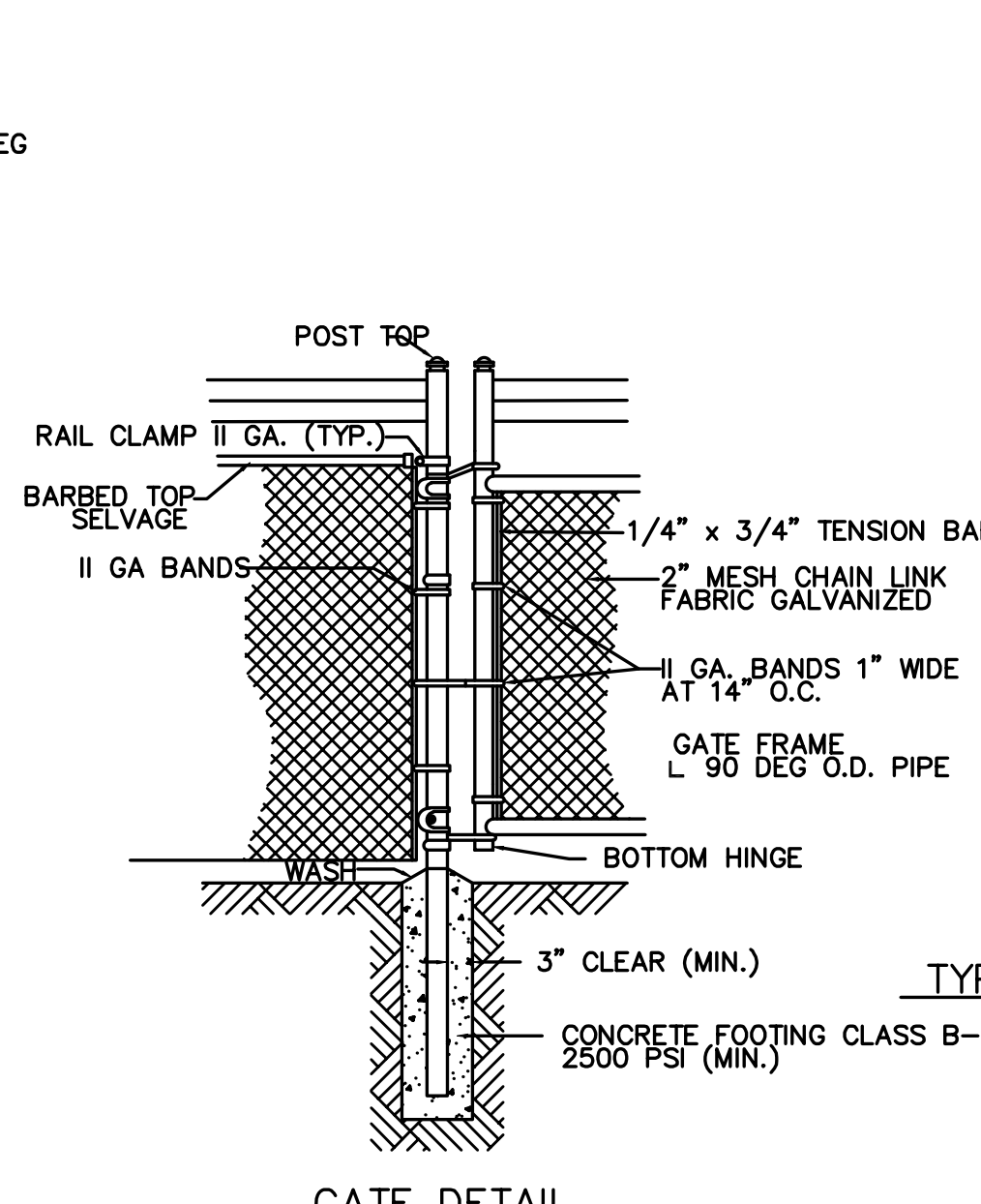
YARD HYDRANT DETAIL
N.T.S.

CIRCUIT BREAKER TRIP	GROUND WIRE SIZE	1 OR 2 POLE		3 POLE	
		CONDUIT	WIRE	CONDUIT	WIRE
15A	1 #12	1/2"	#12	1/2"	#12
20A	1 #12	1/2"	#12	1/2"	#12
30A	1 #10	1/2"	#10	3/4"	#10
40A	1 #10	3/4"	#8	1"	#8
50A	1 #10	3/4"	#8	1"	#8
60A	1 #8	1"	#6	1"	#6
70A	1 #8	1"	#4	1-1/4"	#4
80A	1 #8	1-1/4"	#4	1-1/4"	#4
90A	1 #8	1-1/4"	#2	1-1/4"	#2
100A	1 #8	1-1/4"	#2	1-1/4"	#2

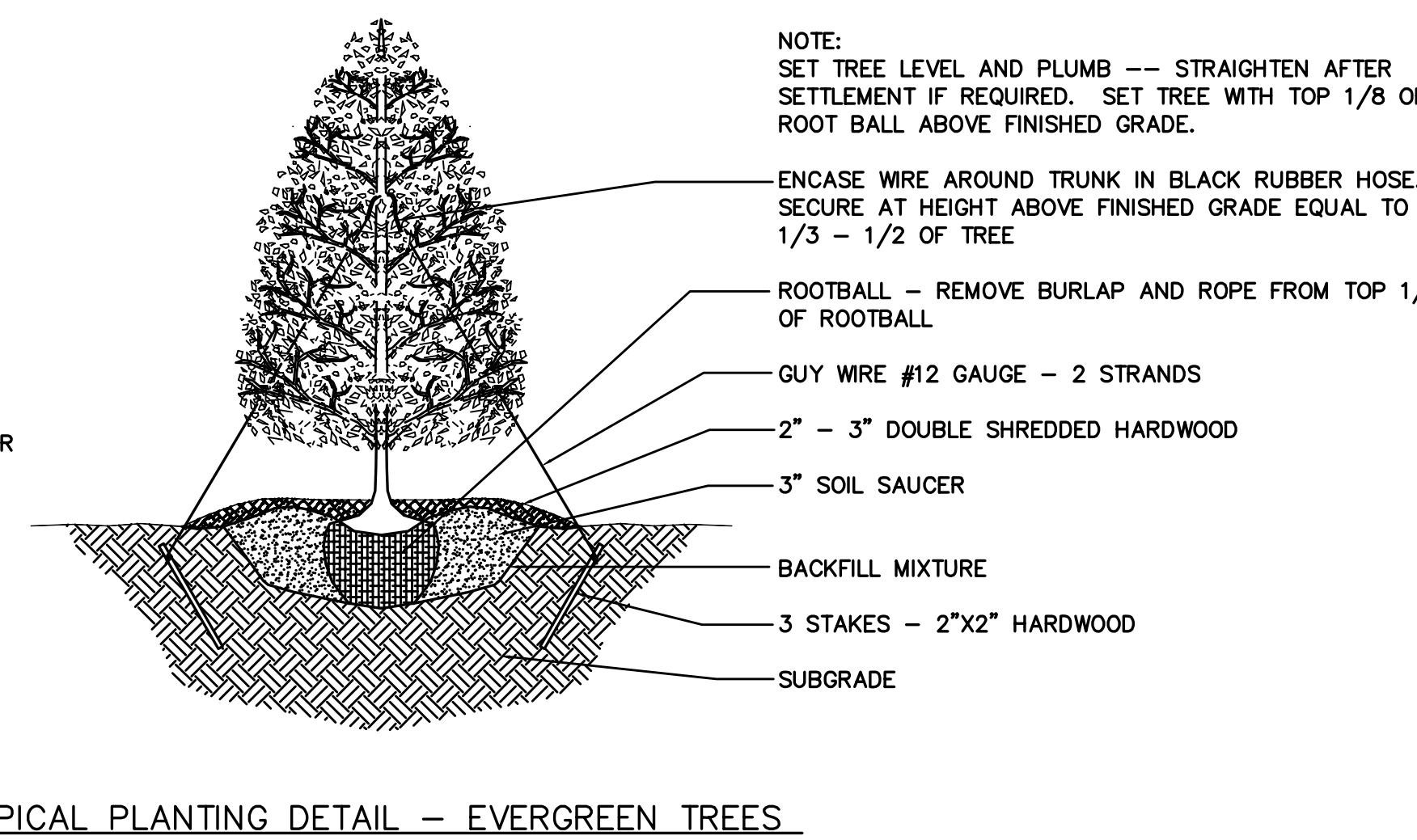
CONDUIT & WIRE SIZE SCHEDULE
(UNLESS OTHERWISE SHOWN)



DOUBLE GATE DETAIL
N.T.S.

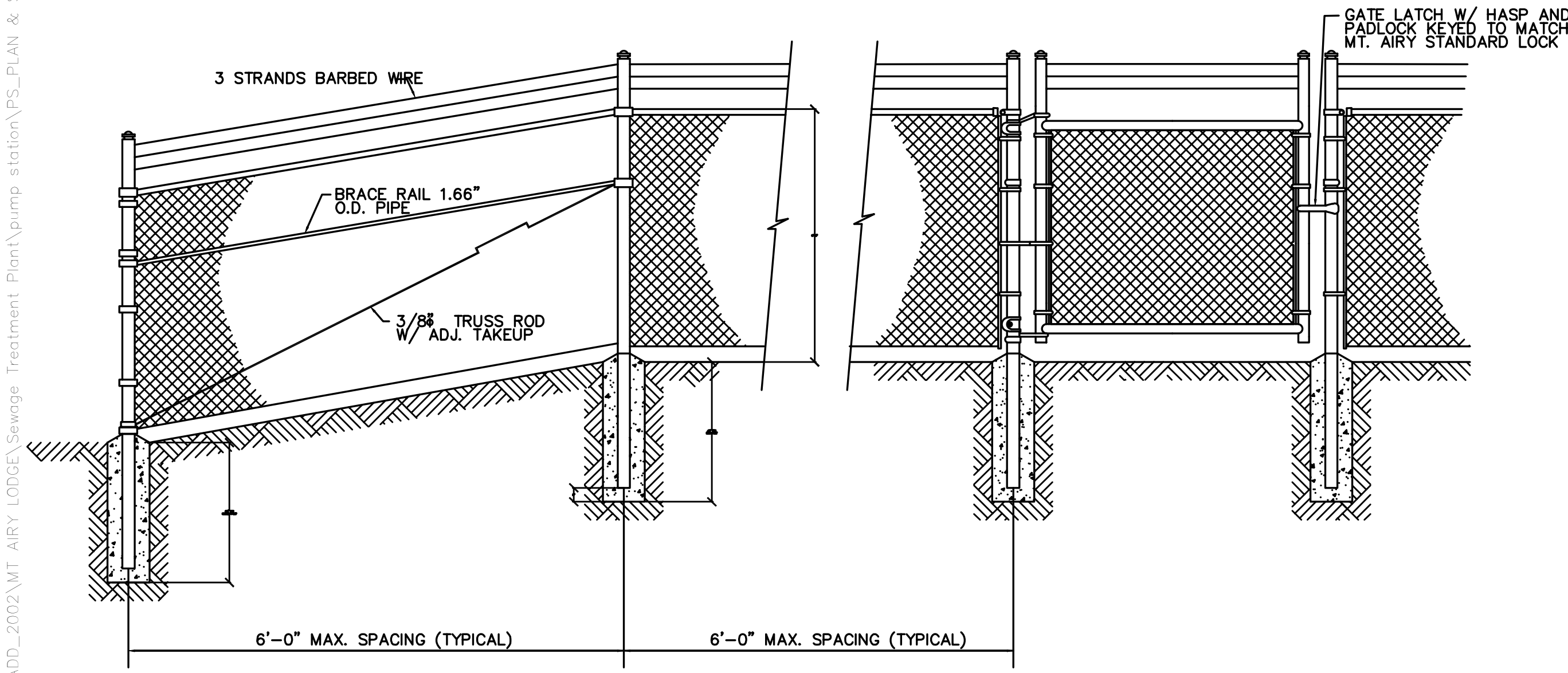


GATE DETAIL
N.T.S.

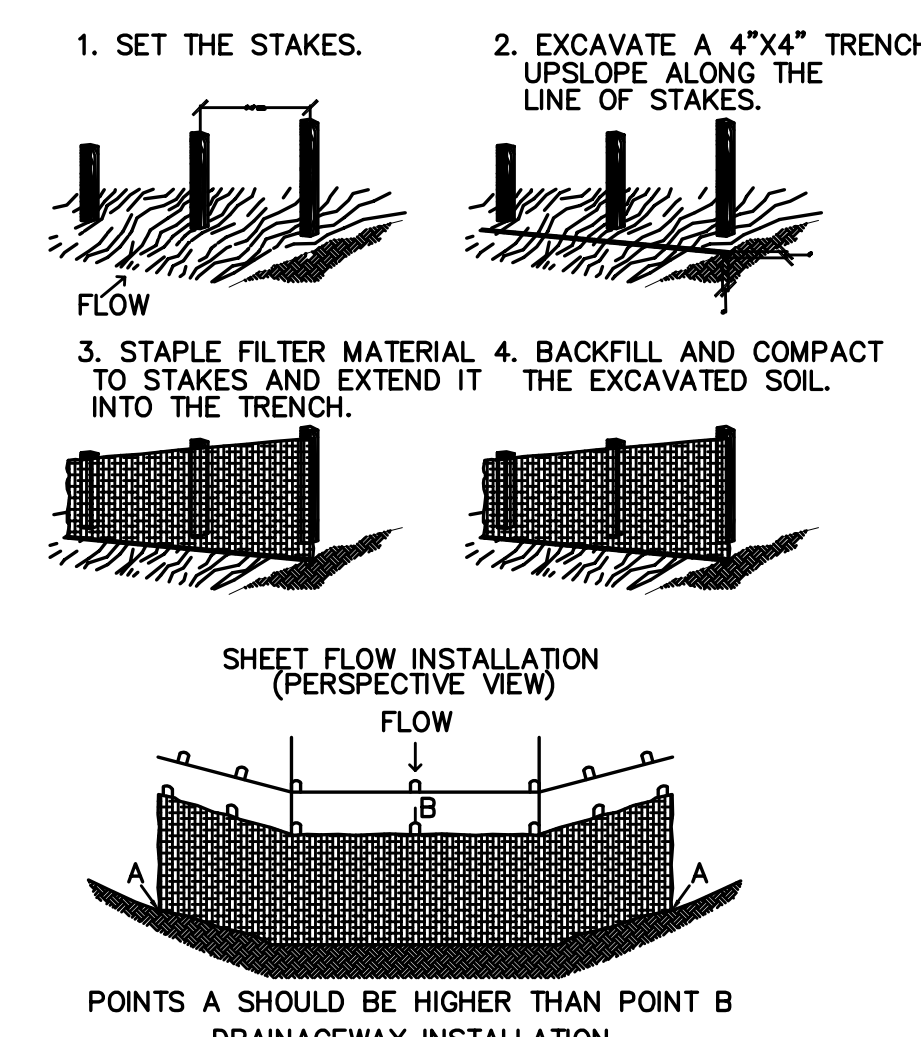


TYPICAL PLANTING DETAIL - EVERGREEN TREES
NOT TO SCALE

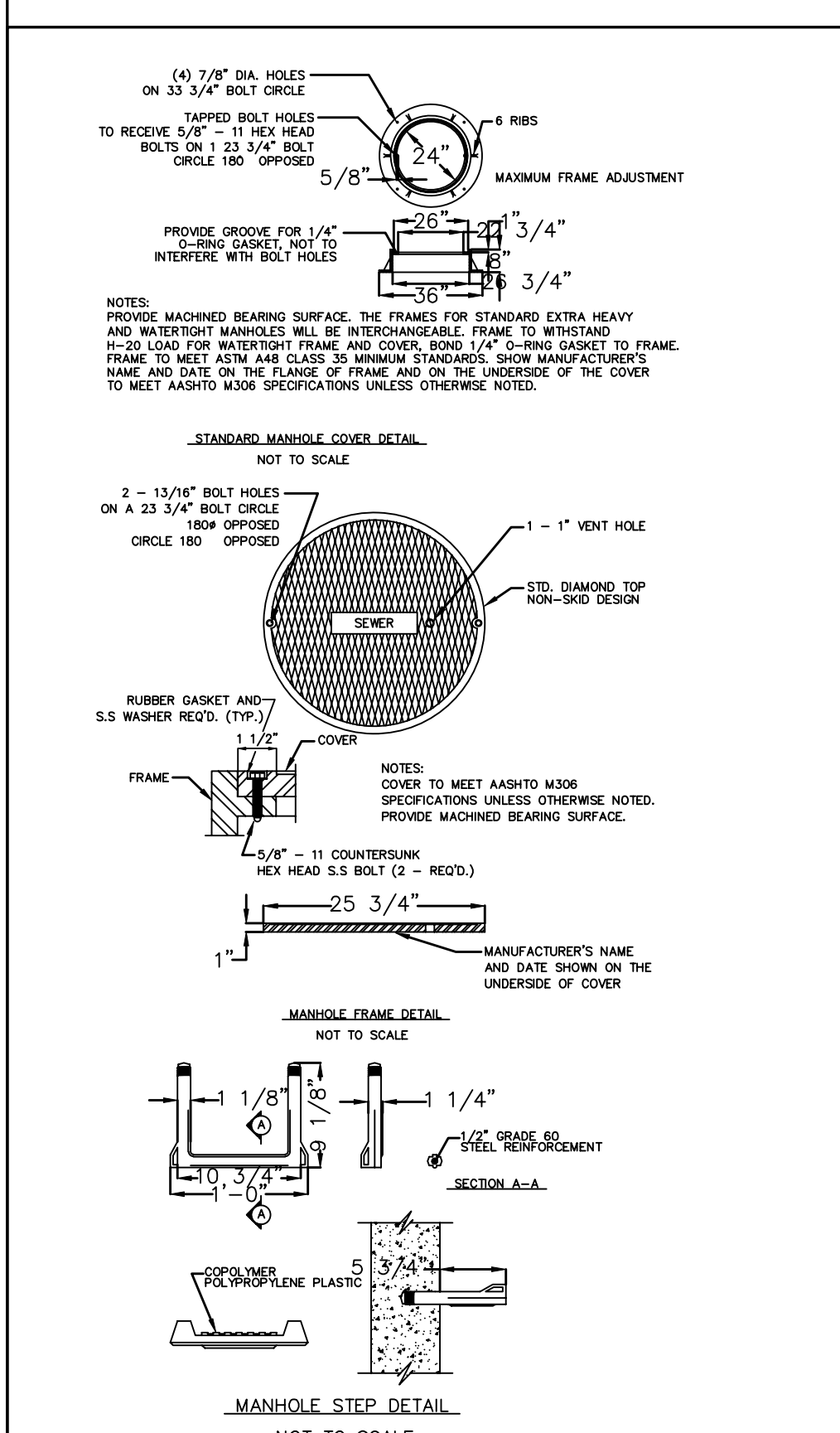
- GENERAL NOTES
1. ALL LANDSCAPE PLANT MATERIALS SHALL CONFORM TO THE LATEST VERSIONS OF THE AMERICAN STANDARD OF NURSERY STOCK (ANSI Z601). PLANT MATERIALS SHALL BE OF STANDARD QUALITY OR BETTER, TRUE TO NAME AND TYPE OF THEIR SPECIES OR VARIETY.
 2. LANDSCAPE PLANT MATERIALS SHALL BE PLANTED IN ACCORDANCE TO THE STANDARDIZED LANDSCAPE SPECIFICATIONS ADOPTED BY EITHER THE PENNSYLVANIA NURSERYMAN'S ASSOCIATION, THE VIRGINIA SOCIETY OF LANDSCAPE DESIGNERS, OR THE PENNSYLVANIA CHAPTER OF THE AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS.
 3. THE CONTRACTOR SHALL VERIFY THE PLANT SCHEDULE WITH THE SYMBOLS DRAWN ON THE PLAN AND CONTACT THE LANDSCAPE ARCHITECT AT THE SITE PLAN ENGINEER'S OFFICE IF A DISCREPANCY EXISTS, UNLESS DIRECTED OTHERWISE BY THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL COMPLY WITH THE QUANTITIES AND LOCATIONS AS DRAWN ON THE LANDSCAPE PLAN.
 4. THE CONTRACTOR SHALL COMPLY WITH THE LANDSCAPE SPECIFICATIONS GUIDE LINES ADOPTED BY THE LANDSCAPE CONTRACTORS ASSOCIATION FOR PLANTING BED PREPARATION AND SOIL MIX GUIDE LINES AND PRODUCERS.
 5. THE EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON AVAILABLE INFORMATION. THE CONTRACTOR BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK AND FOR ANY DAMAGE WHICH OCCUR BY HIS FAILURE TO LOCATE OR PRESERVE THESE UNDERGROUND UTILITIES.
 6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY FIELD CONDITIONS PRIOR TO CONSTRUCTION AND TO NOTIFY THE SITE PLAN ENGINEER'S OFFICE IF THE FIELD CONDITIONS ARE NOT IN CONFORMANCE WITH THE APPROVED PLANS.



CHAIN LINK FENCE DETAIL
N.T.S.

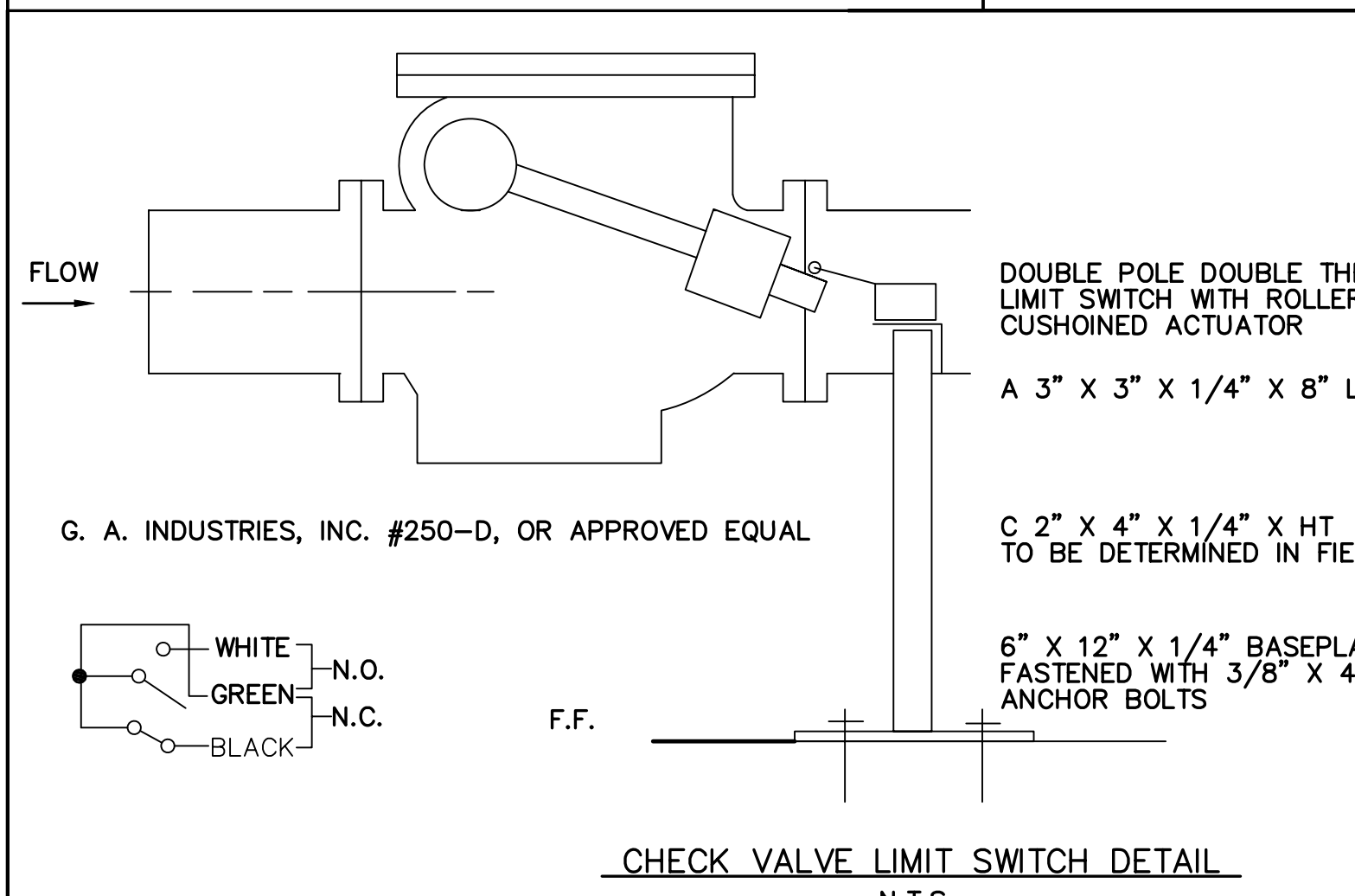
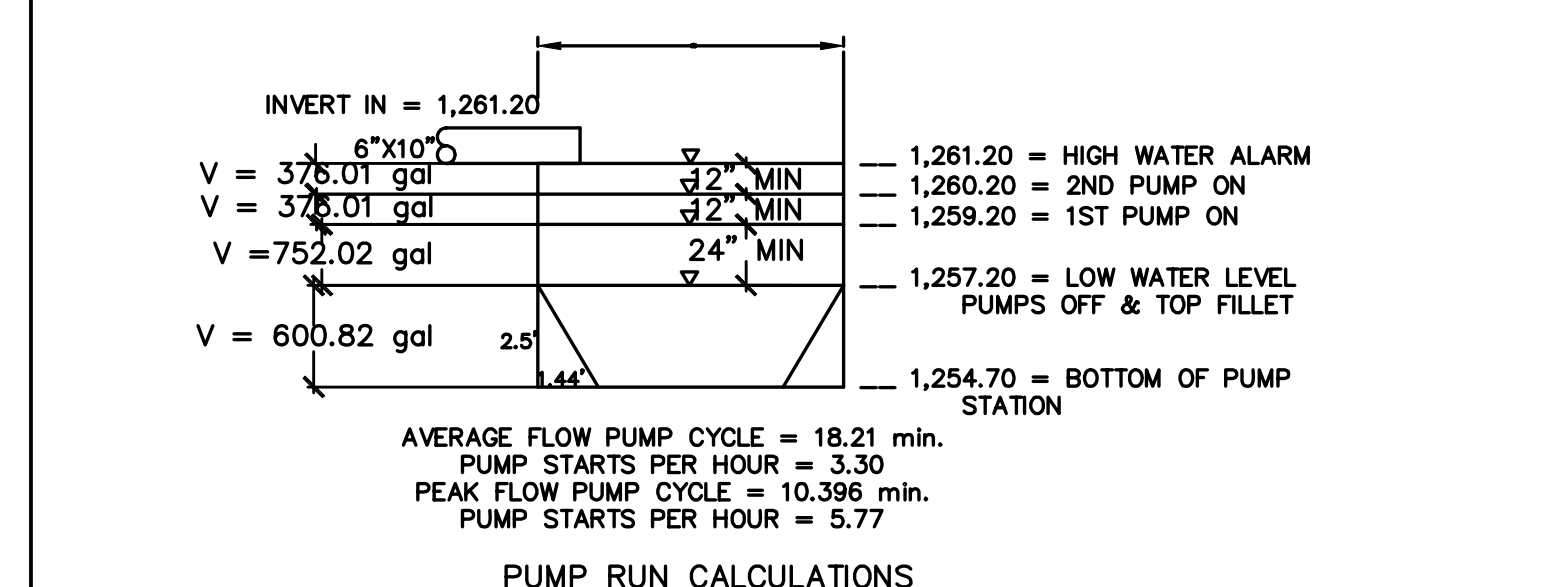
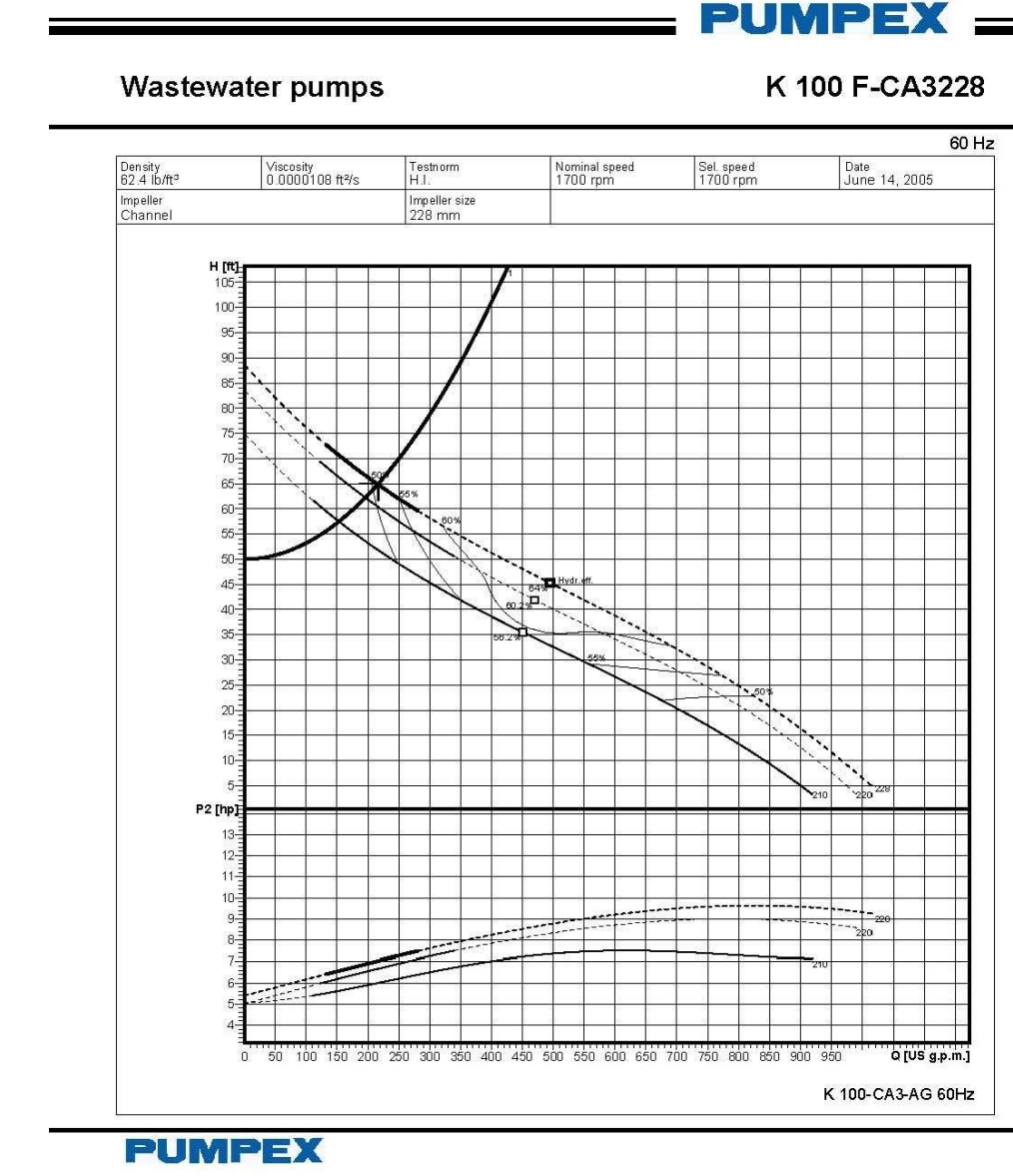


SHEET FLOW INSTALLATION
PERSPECTIVE VIEW
POINTS A SHOULD BE HIGHER THAN POINT B
DRAINAGEWAY INSTALLATION
(FRONT VIEW)



PUMP STATION DESIGN CALCULATIONS

- C. DESIGN RATE OF FLOW
 - TOTAL DAILY FLOW = 124,856 gpd
 - FLOW DURATION = 24 hrs
 - AVERAGE RATE OF FLOW = 86.71 gpm
 - PEAK FACTOR = 2.5
 - PEAK RATE OF FLOW = 216.76 gpm
 - FORCE MAIN SIZE = 6"
 - VELOCITY = 2.46 fps
- D. STATIC HEAD
 - HIGHEST ELEVATION IN FORCE MAIN = 1,311.48 ft.
 - LOW WATER LEVEL IN WET WELL = 1,261.95 ft.
 - STATIC HEAD = 49.53 ft.
- E. FRICTION HEAD
 - LENGTH OF FORCE MAIN = 2,835.31 ft.
 - EQUIVALENT LENGTH OF VALVES & FITTINGS = 95.52 ft.
 - TOTAL EQUIVALENT LENGTH OF PIPE, VALVES, AND FITTINGS = 2,930.83 ft.
 - HAZEN-WILLIAMS COEFFICIENT (C=120) = 0.611
 - FRICTION HEAD = 17.91 ft.
- F. VELOCITY HEAD (V²/2g) = 0.096 ft.
- G. TOTAL DYNAMIC HEAD = 65 ft.
- H. PUMP HORSEPOWER = 7.5 Hp
- I. IMPELLER DIAMETER = 228 mm



CHECK VALVE LIMIT SWITCH DETAIL
N.T.S.

SANITARY SEWAGE SYSTEM - DETAILS

MOUNT AIRY #1 L.L.C.

LAND DEVELOPMENT

PARADISE TOWNSHIP, MONROE COUNTY

PENNSYLVANIA

consulting engineers

p.o. box 995, scranton, pa. 18501 570-342-3101

cceo associates inc.

REVISIONS DATE

DESIGNED	A.J.M.	DATE	
DRAWN	A.J.M.	SCALE	
CHECKED	A.C.B.	DATE	
DATE	05-01-01		

SS-6