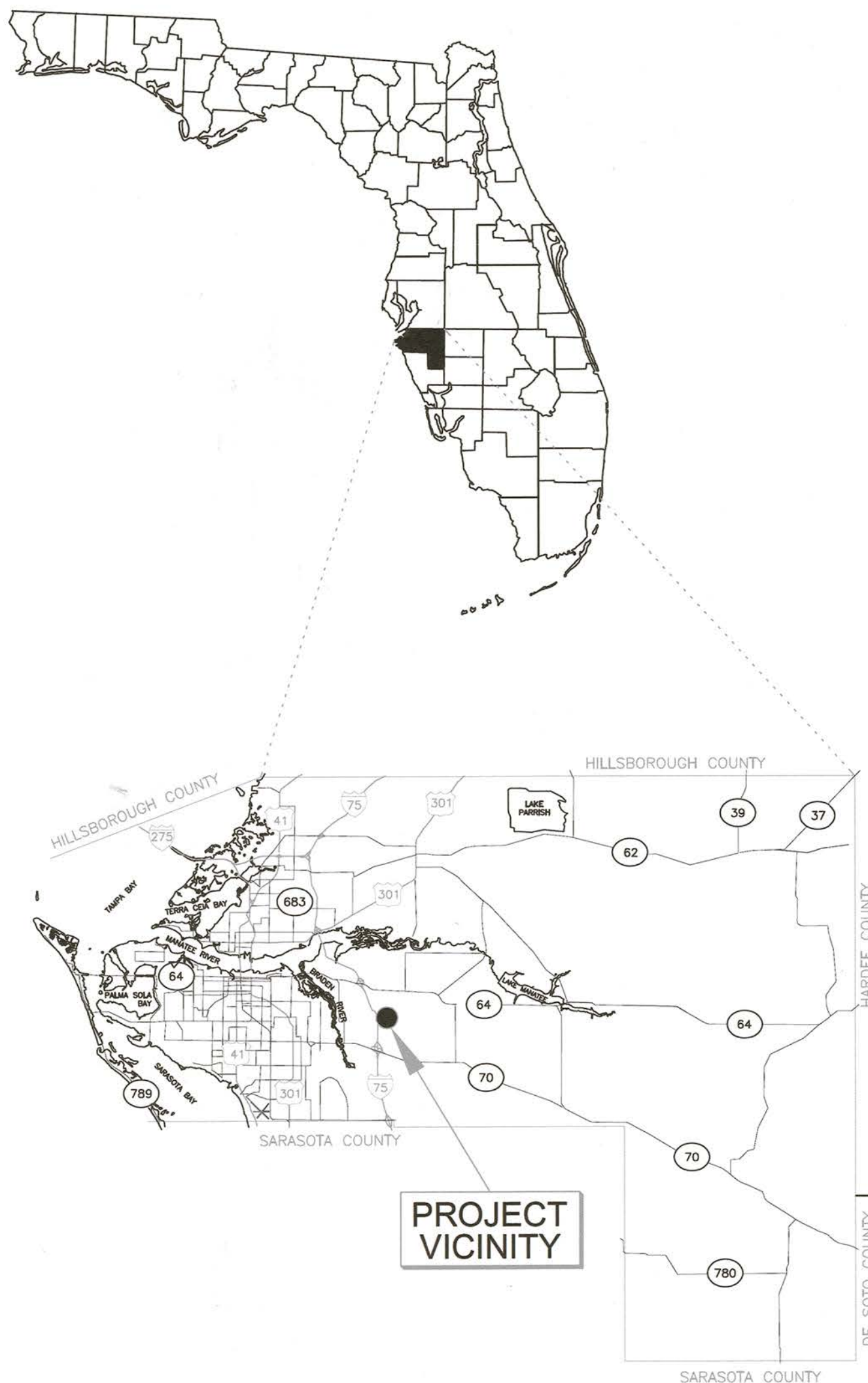


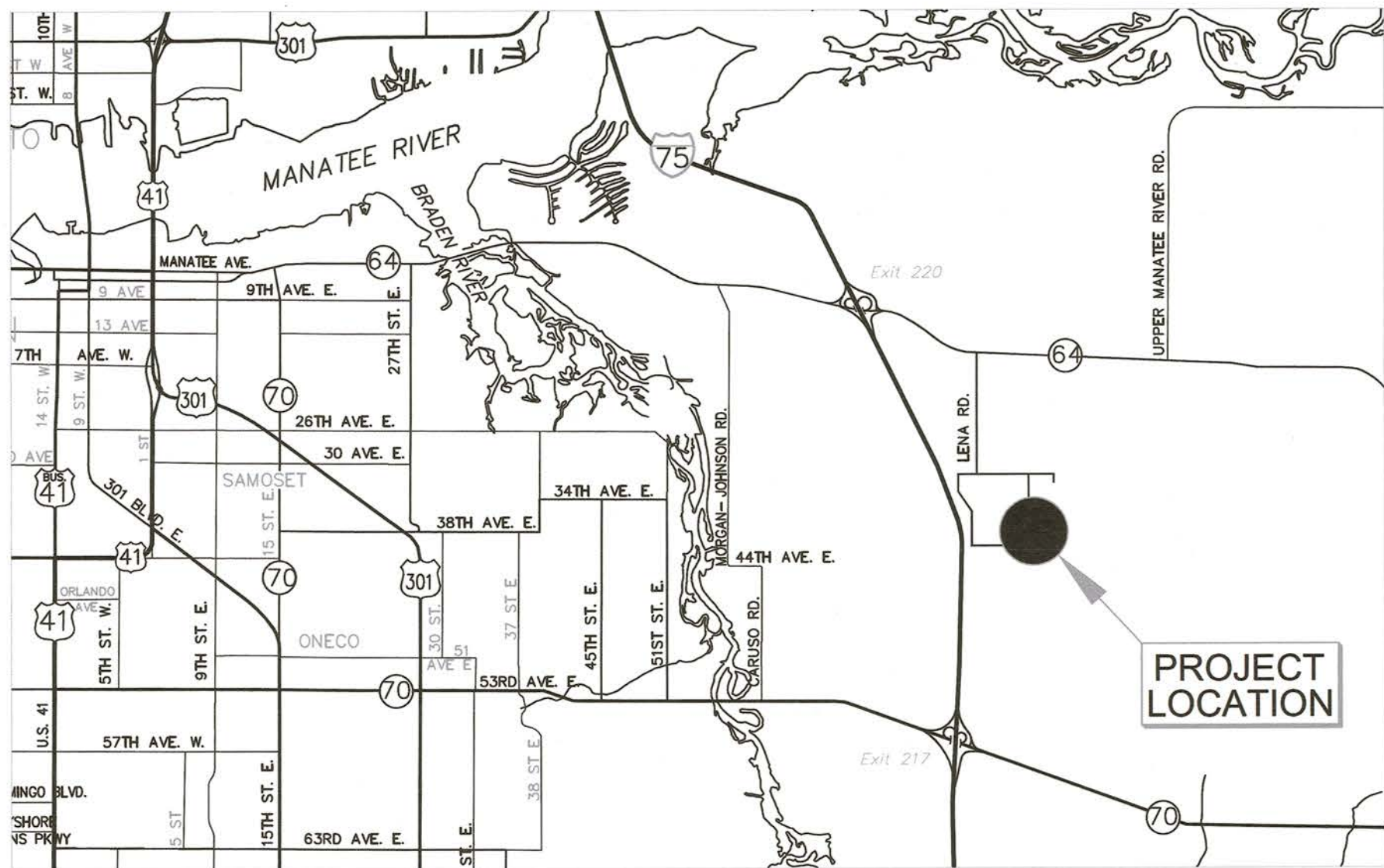
CONTRACT DRAWINGS

SOUTHEAST WATER RECLAMATION FACILITY (SEWRF) SEPTAGE/ GREASE RECEIVING STATION

MANATEE COUNTY, FLORIDA
COUNTY PROJECT No. 6083480



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

3331 LENA ROAD BRADENTON, FLORIDA 34206
SECTION 1, TOWNSHIP 35-S, RANGE 18-E
PARCEL: 567110051
MANATEE COUNTY, FLORIDA

AS-BUILT
Hyatt Survey Services, Inc.
11007 8TH AVENUE EAST BRADENTON, FLORIDA 34212
PH (941) 748-4693 FAX (941) 744-1643 LB No: 7203
CAD FILE: 12-1697-7 PROJ MAN: CIBW DRAWN BY: MD CHECKED BY: RPH
PROJ: 12-1697-7 TBPG: VAR FIELD DATE: 08/15/17 SCALE: AS SHOWN

SURVEYOR'S CERTIFICATION:

I HEREBY CERTIFY THAT THIS SURVEY IS A TRUE AND ACCURATE REPRESENTATION OF A FIELD SURVEY MADE UNDER MY RESPONSIBLE CHARGE, IN CONJUNCTION WITH INFORMATION SUPPLIED BY THE CONTRACTOR, AND THAT TO THE BEST OF MY KNOWLEDGE MEETS THE STANDARDS OF PRACTICE AS SET FORTH BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN RULE CHAPTER SJ-17 OF THE FLORIDA ADMINISTRATIVE CODE.

THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

RUSSELL P. HYATT, P.S.M.
FLORIDA SURVEYORS REGISTRATION NO. 5303

PLANS PREPARED BY:



CLEARWATER
380 PARK PLACE BLVD, STE 300, CLEARWATER, FL 33759 TEL:
(727) 531-3505 (800) 861-8314
www.cardno.com Certificate of Authorization No. 29915

DAVID A. O'CONNOR, PE DATE
LIC. NO. 56803

**ELECTRICAL PLANS
PREPARED BY:**



777 S. Harbor Island Blvd, STE 870, TAMPA, FL 33602
813.227.9190 FAX 813.227.9195
Certificate of Authorization No. 00008363

**STRUCTURAL PLANS
PREPARED BY:**



114 W. FIRST STREET, SUITE 230
SANFORD, FLORIDA 32771
PHONE: (407) 322-0500 FAX: (407) 322-0023

Always call 811 two full business days before you dig



PROJECT NO:
00193-009-02
DATE:
MARCH 2015
SHEET NO:
G-1

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				SEWRF SEPTAGE/ GREASE RECEIVING STATION	 MANATEE COUNTY DEPARTMENT OF PUBLIC WORKS UTILITIES DEPARTMENT 4410 66th Street West Bradenton, Florida 34210 (941) 792-8811	 CLEARWATER 390 PARK PLACE BLVD, STE 300, CLEARWATER, FL 33769 TEL: (727) 531-3505 (800) 861-8314 www.cardno.com Certificate of Authorization No. 29915	DESIGNED DRAWN Q.C. APPROVED DAVID A. O'CONNOR, PE LIC. NO.: 56803	DOC ALS AS-BUILT SHEET INDEX	PROJECT NO: 00193-009-02 DATE: MARCH 2015 SHEET NO: G-2						
NO.	DESCRIPTION	BY	DATE												

GENERAL NOTES

1. MATERIALS USED IN THE CONSTRUCTION OF THIS PROJECT SHALL BE NEW AND CONFORM TO THE MANATEE COUNTY DEPARTMENT OF PUBLIC WORKS UTILITIES DEPARTMENT AND THE LATEST LOCAL JURISDICTION STANDARDS, UNLESS OTHERWISE NOTED.
2. WHERE REFERENCED STANDARDS CONFLICT, OR WHERE THERE ARE DISCREPANCIES BETWEEN THE PROJECT MANUAL (TECH SPECS) AND CONTRACT DRAWINGS, THE MORE STRINGENT STANDARD SHALL APPLY.
3. THE CONTRACTOR SHALL CALL "SUNSHINE STATE ONE CALL 811" A MINIMUM OF 2-DAYS AND A MAXIMUM OF 5-DAYS PRIOR TO START OF CONSTRUCTION.
4. THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AT (727) 639-5567 IMMEDIATELY ON ANY CONFLICTS ARISING DURING CONSTRUCTION.
5. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
6. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE CONSTRUCTION SAFETY. SPECIAL PRECAUTIONS MAY BE REQUIRED IN THE VICINITY OF POWER LINES AND OTHER UTILITIES.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND THE TRANSPORTATION OF SEDIMENT TO SURFACE DRAINS AND OUTFALLS.
8. ALL SECTION CORNERS OR PROPERTY CORNERS DISLOCATED OR DISTURBED BY THE CONSTRUCTION ACTIVITIES SHALL BE RESET BY A REGISTERED LAND SURVEYOR AT THE CONTRACTORS EXPENSE.
9. UNLESS SHOWN OTHERWISE, FINAL GRADE IS TO GENERALLY BE THE SAME AS EXISTING GRADE. ALL DISTURBED LANDSCAPED AND/OR GRASSED AREAS SHALL BE RESTORED IN-KIND.
10. ALL SODDING, SEEDING AND MULCHING SHALL INCLUDE WATERING AND FERTILIZATION AND CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THESE AREAS UP TO AND INCLUDING THE INITIAL MOWING.
11. ALL VOIDS AFTER PLACEMENT OF SOD SHALL BE FILLED WITH PREPARED SOIL MIX. THE SOD SHALL BE ROLLED TO MEET THE PROPOSED GRADES, SOD PLACED ON SLOPES (3:1 OR STEEPER) SHALL BE PEGGED.
12. ALL EXCESS SOIL RESULTING FROM CONSTRUCTION ACTIVITIES THAT IS NOT CLAIMED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND PROPERLY DISPOSED OF OFFSITE BY THE CONTRACTOR.
13. AREAS OF EXPOSED EARTH RESULTING FROM CONSTRUCTION SHALL BE SODDED IN KIND UNLESS OTHERWISE NOTED ON PLANS.
14. THE LOWEST PIPE SHALL BE INSTALLED FIRST WHERE UTILITIES CROSS.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING OF ALL MAINS IN ACCORDANCE WITH CURRENT STANDARDS OF LOCAL JURISDICTION. CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION AND THE OWNER OR HIS AUTHORIZED REPRESENTATIVE AT LEAST 48 HOURS IN ADVANCE OF PERFORMING TESTS.
16. THE CONTRACTOR SHALL PROVIDE ALL SHEETING, SHORING AND BRACING REQUIRED TO PROTECT ADJACENT STRUCTURES AND TO MINIMIZE TRENCH WIDTH. WHERE A SEPARATE PAY ITEM IS NOT PROVIDED, THE COST OF ALL SHEETING AND BRACING REQUIRED SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE ITEM OF WORK FOR WHICH SHEETING, SHORING AND BRACING IS ANTICIPATED TO BE REQUIRED IN ACCORDANCE WITH "TRENCH SAFETY ACT".
17. ALL CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3,000 PSI (28 DAY STRENGTH), UNLESS OTHERWISE NOTED ON DRAWINGS. ACCESS DRIVES SHALL MEET H - 20 TRAFFIC LOADING REQUIREMENTS.
18. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATION, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING HIS WORK PRIOR TO CONSTRUCTION.
19. THE CONTRACTOR SHALL VERIFY IN THE FIELD THE LOCATION AND ELEVATION OF ALL EXISTING UTILITY CONNECTION POINTS PRIOR TO STARTING CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ENGINEER AND OWNER OF ANY DISCREPANCIES FOUND.
20. ALL POTABLE, FIRE AND IRRIGATION SYSTEM COMPONENTS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO THESE SYSTEMS IMMEDIATELY.
21. THE CONTRACTOR SHALL ENSURE THAT EXCAVATIONS ARE FREE OF DEBRIS AND ORGANIC MATERIAL PRIOR TO BACKFILLING.

22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A NPDES NOI PERMIT FROM EPA, AS WELL AS PREPARING AND MAINTAINING A STORMWATER POLLUTION PREVENTION PLAN FOR BOTH ON-SITE AND OFF-SITE IMPROVEMENTS. THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH ALL REQUIREMENTS OF THE EPA NPDES PERMIT FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY STORMWATER DISCHARGE PERMIT AND/OR DEWATERING PLAN, AND SHALL BE RESPONSIBLE TO COMPLY WITH ALL CONDITIONS SET FORTH IN THE PERMIT.
23. THE CONTRACTOR SHALL TAKE ALL REASONABLE MEANS TO ELIMINATE THE TRANSPORT OF DUST FROM THE PROJECT SITE. SPECIAL MEASURES, SUCH AS PERIODICALLY APPLYING WATER TO THE WORK SITE TO PREVENT DUST SHALL BE INCORPORATED INTO THE CONTRACTORS WORK PLAN.
24. MAINTAIN ACCESS TO AND OPERATION OF ALL EXISTING PLANT OPERATIONS UNTIL NEW OPERATIONS HAVE BEEN ACCEPTED BY OWNER AND ENGINEER.
25. SURVEY PREPARED BY:

HYATT SURVEY SERVICES, INC.
11007 8TH AVENUE EAST, BRADENTON, FLORIDA 34212
(941) 748.4693
26. GEOTECHNICAL INVESTIGATION PREPARED BY:

MC SQUARED, INC. (MC2)
5808-A BRECKENRIDGE PARKWAY, TAMPA, FLORIDA 33610
(813) 623.3399
27. VERTICAL AND HORIZONTAL CLEARANCES FOR WATER, SEWER, FORCE MAIN, AND RECLAIMED WATER MAINS SHALL MEET FDEP MINIMUM SEPARATION.
28. ALL PLANT SERVICE WATER SPIGOTS (HOSE BIBS, IRRIGATION SYSTEM) SHALL HAVE APPROPRIATE SAFETY PLACARDS.
29. UNLESS OTHERWISE NOTES, ALL STAINLESS STEEL SHALL BE TYPE 316L.
30. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFEKEEPING OF EQUIPMENT AND MATERIALS LEFT ON-SITE DURING CONSTRUCTION
31. PIPE DEFLECTION AT THE JOINTS SHALL NOT EXCEED 75% OF MANUFACTURER'S RECOMMENDATION.
32. THE CONTRACTOR SHALL EXCAVATE TO CONFIRM THE LOCATIONS OF EXISTING UTILITIES ADJACENT TO OR CROSSING PROPOSED LINework BEFORE STARTING CONSTRUCTION.
33. ALL BELOW GROUND DUCTILE IRON PIPE SHALL BE ENCASED IN A POLYETHYLENE WRAP IN ACCORDANCE WITH AWWA C105.
34. ALL EXISTING FENCE DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AND REINSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER UNLESS SHOWN TO BE REMOVED ON CONSTRUCTION PLANS.
35. OTHER CONSTRUCTION PROJECTS MAY BE ONGOING AT THE FACILITY DURING THE TIME OF THIS PROJECT. THE CONTRACTOR SHALL COOPERATE WITH OTHER CONTRACTORS THAT MAY BE ON SITE. THE CONTRACTOR SHALL COORDINATE ALL WORK THROUGH THE PLANT SUPERINTENDENT.
36. THE CONTRACTOR SHALL RECEIVE A DESIGNATED AREA FOR STORAGE OF MATERIALS. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR THE SECURITY AND SAFEKEEPING OF CONTRACTOR'S OWN TOOLS AND PROJECT MATERIALS STORED ON SITE.
37. THE CONTRACTOR SHALL MAINTAIN ON-SITE ONE FULL-SIZE SET OF CONTRACT DRAWINGS RED-LINED TO DOCUMENT CONFIRMATION OF ALL PROPOSED WORK AND ANY DEVIATIONS FROM PROPOSED WORK. THESE RED-LINED DRAWINGS SHALL BE MADE AVAILABLE TO OWNER AND ENGINEER UPON REQUEST.
38. THE CONTRACTOR SHALL PROVIDE CERTIFIED "AS-BUILT" DRAWINGS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR, THE RECORD DRAWINGS SHALL SHOW CONFIRMATION OF ALL PROPOSED WORK AND ANY DEVIATIONS FROM THE PROPOSED WORK. THE CONTRACTOR SHALL PROVIDE FIVE HARD COPIES AND ONE ELECTRONIC AUTOCAD COPY OF THE "AS-BUILT" DRAWINGS TO THE ENGINEER.

SURVEY NOTES

1. THIS IS NOT A BOUNDARY SURVEY.
2. THE SURVEY IS REFERENCED TO A PROJECTION OF THE FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE NAD 1983/2007 ADJUSTMENT).
3. ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
4. THE FOLLOWING BENCHMARK WAS RECOVERED AND UTILIZED FOR THIS SURVEY: RAILROAD SPIKE IN THE NE SIDE OF A POWER POLE WITH A PK NAIL AND MANATEE COUNTY BM DISK ABOVE IT, 45± WEST OF SW CORNER PHASE 1 LENA LANDFILL (NGVD 1929 ELEVATION 38.671'). FOR CONVERSION TO NAVD 1988 ELEVATIONS, A VALUE OF (-0.96') SHOULD BE APPLIED. THIS VALUE WAS DERIVED USING CORPSCON 6 AND IS APPROXIMATE.
5. SITE LIES WITHIN FLOOD ZONES "A" AND "X" AS SCALED FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP: COMMUNITY PANEL NUMBER 120153 0352 C DATED JULY 15, 1992. SUBJECT TO FIELD VERIFICATION.
6. THIS SURVEY IS SUBJECT TO PERTINENT EASEMENTS, RIGHTS-OF-WAY AND RESTRICTIONS OF RECORD, IF ANY.

HORIZONTAL/VERTICAL CONTROL

DESIGNATION (SEE PLAN)	NORTHING	EASTING	ELEVATION
BM # 200 (PKND LB 7203)	1139596.539	510507.125	37.66'
BM # 204 (PKND LB 7203)	1139279.956	510481.022	35.81'
BM # 208 (PKND LB 7203)	1139366.878	511102.444	37.17'

SEWRF
SEPTAGE/ GREASE
RECEIVING STATION



MANATEE COUNTY
DEPARTMENT OF PUBLIC WORKS
UTILITIES DEPARTMENT
4410 66th Street West Bradenton, Florida 34210
(941) 792-8811



CLEARWATER
380 PARK PLACE BLVD, STE 300, CLEARWATER, FL 33759 TEL:
(727) 531-3805 (800) 861-8314
www.cardno.com Certificate of Authorization No. 29915

DAVID A. O'CONNOR, PE DATE
LIC. NO.: 56803

DESIGNED DOC
DRAWN
Q.C.
APPROVED

AS-BUILT
GENERAL NOTES

PROJECT NO:
00193-009-02
DATE:
MARCH 2015
SHEET NO:
G-3

GENERAL ABBREVIATIONS

@	AT	JT.	JOINT
AC	ACRES	LG.	LONG
AC	ASPHALTIC CONCRETE	LN.	LANE
ABD	ABANDONED	LP	LIGHT POLE
AL./ALUM.	ALUMINUM	MAX.	MAXIMUM
ANCH.	ANCHOR	MB	MAILBOX
APPROX.	APPROXIMATE	MCC	MOTOR CONTROL CENTER
ASPH	ASPHALT	MES	MITERED END SECTION
AVE.	AVENUE	MON.	MONUMENT
BLDG.	BUILDING	NG	NATURAL GROUND
BLVD.	BOULEVARD	N.T.S.	NOT TO SCALE
BM	BENCHMARK	NO.	NUMBER
BOT./BOTT.	BOTTOM	Ø	DIAMETER / PHASE
C	CHANNEL	OPNG.	OPENING
C.	CONDUIT	PKND	PK NAIL W/ DISK
C.B.	CATCH BASIN	PLCS.	PLACES
CHKR	CHECKERED	POT	POTABLE
CIR.	CIRCLE	PP	POWER POLE
CLF	CHAIN LINK FENCE	PROP.	PROPOSED
Ⓒ	CENTERLINE	P.V.	PLUG VALVE
CMP	CORRUGATED METAL PIPE	PVMT	PAVEMENT
COL.	COLUMN	R.	RADIUS / RISER / RELAY
CONN.	CONNECTOR / CONNECTION	RCP	REINFORCED CONCRETE PIPE
CONC.	CONCRETE	REF.	REFERENCE
C.P.	CONTROL PANEL	REINF.	REINFORCED / REINFORCING
CU.	COPPER	REQ'D	REQUIRED
D.	DEEP / DRAIN	RESTR.	RESTRAINED
DBL.	DOUBLE	RFH	RECLAIM FIRE HYDRANT
DHW.	DESIGN HIGH WATER	RW: R/W	RIGHT-OF-WAY
DISCH.	DISCHARGE	SAN.	SANITARY
DLW.	DESIGN LOW WATER	SEC.	SECTION
DNL.	DOWN	SGL	SINGLE
DR.	DRIVE	SPRK	SPRINKLER
DRWY	DRIVEWAY	SQ.	SQUARE
E.W.	EACH WAY	SN	SIGN
EA.	EACH	ST.	STREET
EL./ELEV.	ELEVATION	STL.	STEEL
ELEC.	ELECTRICAL CONDUIT	S.U.E.	SUBSURFACE UTILITY ENGINEERING
ETC.	AND SO FORTH	SW/SWK	SIDEWALK
EXIST.	EXISTING	SYM.	SYMMETRICAL
EXP.	EXPANSION	TOB	TOP OF BANK (DITCH)
FF.	FOOT	T.&B.	TOP & BOTTOM
FT.	FINISHED FLOOR	TEL	TELEPHONE
FTG.	FOOTING	TEMP.	TEMPORARY
GALV.	GALVANIZED	THK	THICK
GDRL	GUARDRAIL	TOS	TOE OF SLOPE (DITCH)
GEN	GENERATOR	TYP.	TYPICAL
GI	GRATED INLET	UG	UNDERGROUND GAS
GPM	GALLONS PER MINUTE	UP	UTILITY POLE
GRTG.	GRATING	UT	UNDERGROUND TELEPHONE
GRND	GROUND	VERT.	VERTICAL
G.S.	GALVANIZED STEEL	W	WIDE FLANGE / WIDE / WATT / WATER
GR./GRD.	GRADE	W/	WITH
GWP	GUY WIRE POLE	W/L	WATER LINE
HDWALL	HEADWALL	W.L.	WATER LEVEL
H.R.	HANDRAIL	WM	WATER MAIN
HHW	HOT WATER HEATER	W.M.	WATER METER
I.E.	INVERT ELEVATION	W.P.	WEATHER PROOF
IN.	INCH	W.S.	WALL SLEEVE / WATER STOP / WATER SERVICE
INV.	INVERT		
IP	IRON PIPE		
IR	IRON ROD		
J.B.	JUNCTION BOX		

FLOW ABBREVIATIONS

AD	AIR DUCT
AL	ALUM
BE	BURIED ELECTRIC
BW	BACKWASH
CA	COMPRESSED AIR
CLE	CLARIFIER EFFLUENT
CL2G	CHLORINE GAS
CL2S	CHLORINE SOLUTION
DR	DRAIN
FBW	SAND FILTER BACKWASH
FE	SAND FILTER EFFLUENT
FEQ	FLOW EQUALIZATION
FM	FORCE MAIN
GR	GRIT
HW	HOT WATER
IRR	IRRIGATION
LC	LEACHATE COLLECTION
MHE	MANHOLE ELECTRIC
ML	MIXED LIQUOR
OF	OVERFLOW
OF P	OVERFLOW POLYMER
PO	POLYMER
PDFM	PLANT DRAIN FORCE MAIN
PSW	PLANT SERVICE WATER
PW	POTABLE WATER
RAS	RETURN ACTIVATED SLUDGE
RCW	RECLAIMED WATER
REJ	REJECT
RML	RECIRCULATED MIXED LIQUOR
RW	RECLAIMED WATER
SAM	SAMPLE
SC	SCUM
STORM	STORMWATER COLLECTION
SPW	STORAGE POND WATER
SS	SANITARY SEWER
SW	SPRAY WATER
SWV	SANITARY WATER VALVE
TS	THICKENED SLUDGE
UN	UNDERDRAIN
UNK	UNKNOWN
WAS	WASTE ACTIVATED SLUDGE
WW	WASTEWATER

PIPING ABBREVIATIONS

ABD	ABANDONED
CO	CLEANOUT
CORP	CORPORATION
CV	CHECK VALVE
DI	DUCTILE IRON
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
ELEC	ELECTRICAL
EXIST	EXISTING
FH	FIRE HYDRANT
FL	FLANGED
GV	GATE VALVE
HB	HOSE BIBB
HDPE	HIGH DENSITY POLYETHYLENE
MH	MANHOLE
MJ	MECHANICAL JOINT
PE	PLAIN END
PS	PUMP STATION
PVC	POLYVINYLCHLORIDE
RED	REDUCER
SCH	SCHEDULE
SS	STAINLESS STEEL
TBR	TO BE REMOVED
UE	UNDERGROUND ELECTRIC
V	VALVE
VERT	VERTICAL

LEGEND

EXISTING		PROPOSED
	PIPELINE	
	GATE VALVE	
	BUTTERFLY VALVE	
	BALL VALVE	
	PLUG VALVE	
	REDUCER	
	AIR RELEASE VALVE	
	GAS VALVE	
	MANHOLE	
	CATCH BASIN	
	FIRE HYDRANT	
	TOP OR TOE OF BANK	
	CHAIN LINK FENCE	
	R/W OR PROPERTY LINE	
	PIPING, STRUCTURES OR EQUIPMENT TO BE REMOVED	
	BENCHMARK	
	FIRE HYDRANT	
	LIGHT POLE	
	VALVE	
	SANITARY WATER VALVE	
	RECLAIMED WATER METER	
	SANITARY MANHOLE	
	ELECTRIC MANHOLE	
	BOLLARD	
	POWER POLE	
	UTILITY RISER	
	IRRIGATION HEAD	
	S.U.E. TEST HOLE LOCATION	
	CONCRETE PAVEMENT	
	CONCRETE PAD	
	PAINTED STRIPING	
	PROPOSED GRADE	
	SURFACE FLOW ARROW	
	STRUCTURE COLUMN	
	SILT FENCE	
	YARD HYDRANT	
	HOSE RACK	

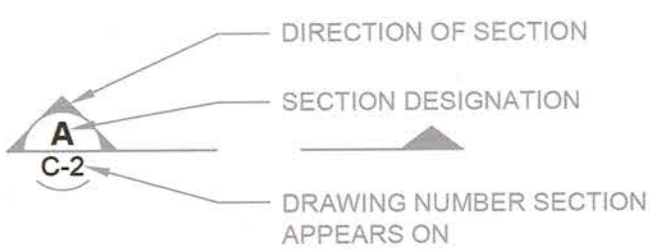
DRAFTING LEGEND

SECTION DESIGNATION



INDICATES ONE OR MORE SECTIONS CUT AND SHOWN ON THE SAME SHEET

SECTION DESIGNATION



DIRECTION OF SECTION

SECTION DESIGNATION

DRAWING NUMBER SECTION APPEARS ON

DETAIL DESIGNATION



DETAIL DESIGNATION

DRAWING NUMBER DETAIL APPEARS ON OR IS CUT ON

DETAIL DESIGNATION



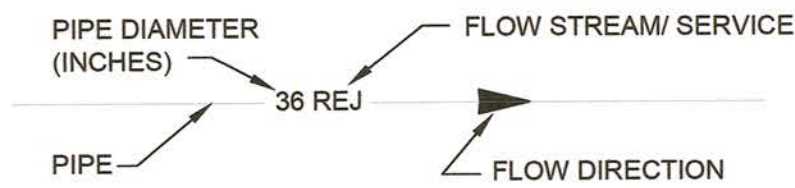
DETAIL DESIGNATION

DETAIL NAME

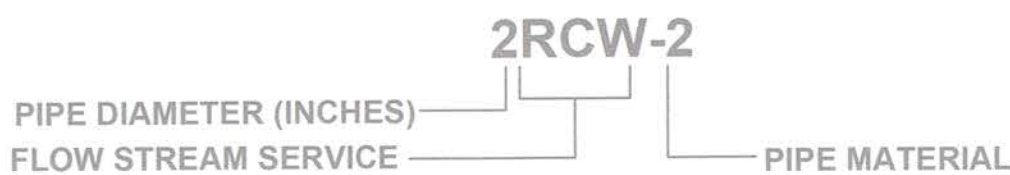
DRAWING NUMBER DETAIL APPEARS ON OR IS CUT ON

SCALE (IF APPLICABLE)

PIPE IDENTIFICATION



Pipe Material Number	Pipe Material Abbreviation
-1	DI
-2	PVC



NOTE:

THE LEGEND LISTED REPRESENT A COMPREHENSIVE STANDARD GUIDE INTENDED FOR GENERAL USE. THEREFORE, NOT ALL OF THE SYMBOLS AND ABBREVIATIONS CONTAINED ON THIS SHEET ARE NECESSARILY USED ON THIS PARTICULAR CONTRACT.

SEWRF SEPTAGE/ GREASE RECEIVING STATION



MANATEE COUNTY
DEPARTMENT OF PUBLIC WORKS
UTILITIES DEPARTMENT
4410 66th Street West Bradenton, Florida 34210
(941) 792-8811

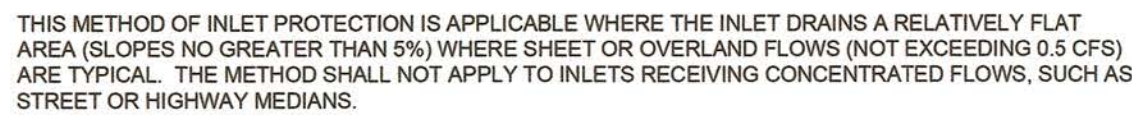
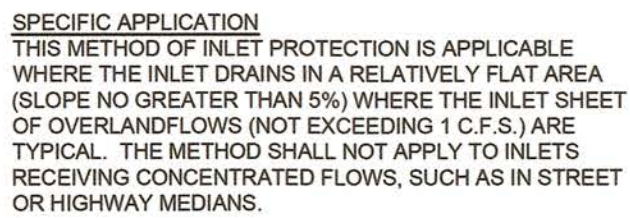
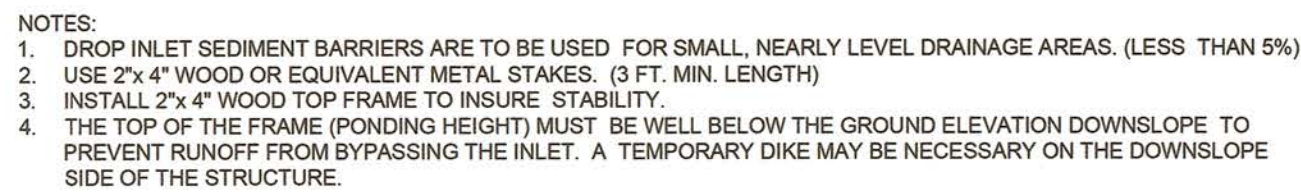


DAVID A. O'CONNOR, PE
L.I.C. NO.: 58803

DESIGNED
DRAWN
Q.C.
APPROVED

AS-BUILT
LEGEND AND ABBREVIATIONS

PROJECT NO:
00193-009-02
DATE:
MARCH 2015
SHEET NO:
G-4



- ### EROSION CONTROL NOTES

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND THE TRANSPORTATION OF SEDIMENT TO SURFACE DRAINS AND OUTFALLS.
2. THE CONTRACTOR SHALL PROVIDE SILT BARRIERS TO CONTROL EROSION AND SEDIMENTATION FROM TAKING PLACE OUTSIDE THE LIMITS OF THE PROJECT. THE SILT BARRIERS SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF FDOT INDEX NO. 102, 103 AND 104 OR AS DIRECTED BY THE CITY ENGINEER.
3. REQUIRED EROSION CONTROL MEASURES SHALL REMAIN INTACT THROUGHOUT CONSTRUCTION. FAILURE TO INSTALL OR PROPERLY MAINTAIN REQUIRED EROSION CONTROL WILL RESULT IN ENFORCEMENT ACTION WHICH MAY INCLUDE CITATIONS AS PROVIDED BY APPLICABLE LOCAL ORDINANCE AND CHAPTERS 40D-4 AND 40D-40, F.A.C. INITIATION OF CIVIL PENALTY PROCEDURES PURSUANT TO SECTION 373.129, F.A.C. CAN RESULT IN A PENALTY NOT TO EXCEED \$10,000 PER OFFENSE WITH EACH DATE DURING WHICH SUCH VIOLATION OCCURS CONSTITUTING A SEPARATE OFFENSE.
4. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
5. CONTRACTOR SHALL CONSTRUCT TURBIDITY BARRIERS APPROXIMATELY 25 FEET DOWNSTREAM OF END SECTIONS AT POND LOCATIONS SHOWN ON PLAN SHEETS. CONTRACTOR TO INSPECT AND MAINTAIN EACH TURBIDITY BARRIER DAILY.
6. CONTRACTOR MAY USE OTHER ACCEPTABLE EROSION CONTROL DEVICES AROUND INLETS AS APPROVED BY THE ENGINEER.

NO.	DESCRIPTION	BY	DATE

**SEWRF
SEPTAGE/ GREASE
RECEIVING STATION**



MANATEE COUNTY
DEPARTMENT OF PUBLIC WORKS
UTILITIES DEPARTMENT
4410 66th Street West Bradenton, Florida 34210
(941) 792-8811



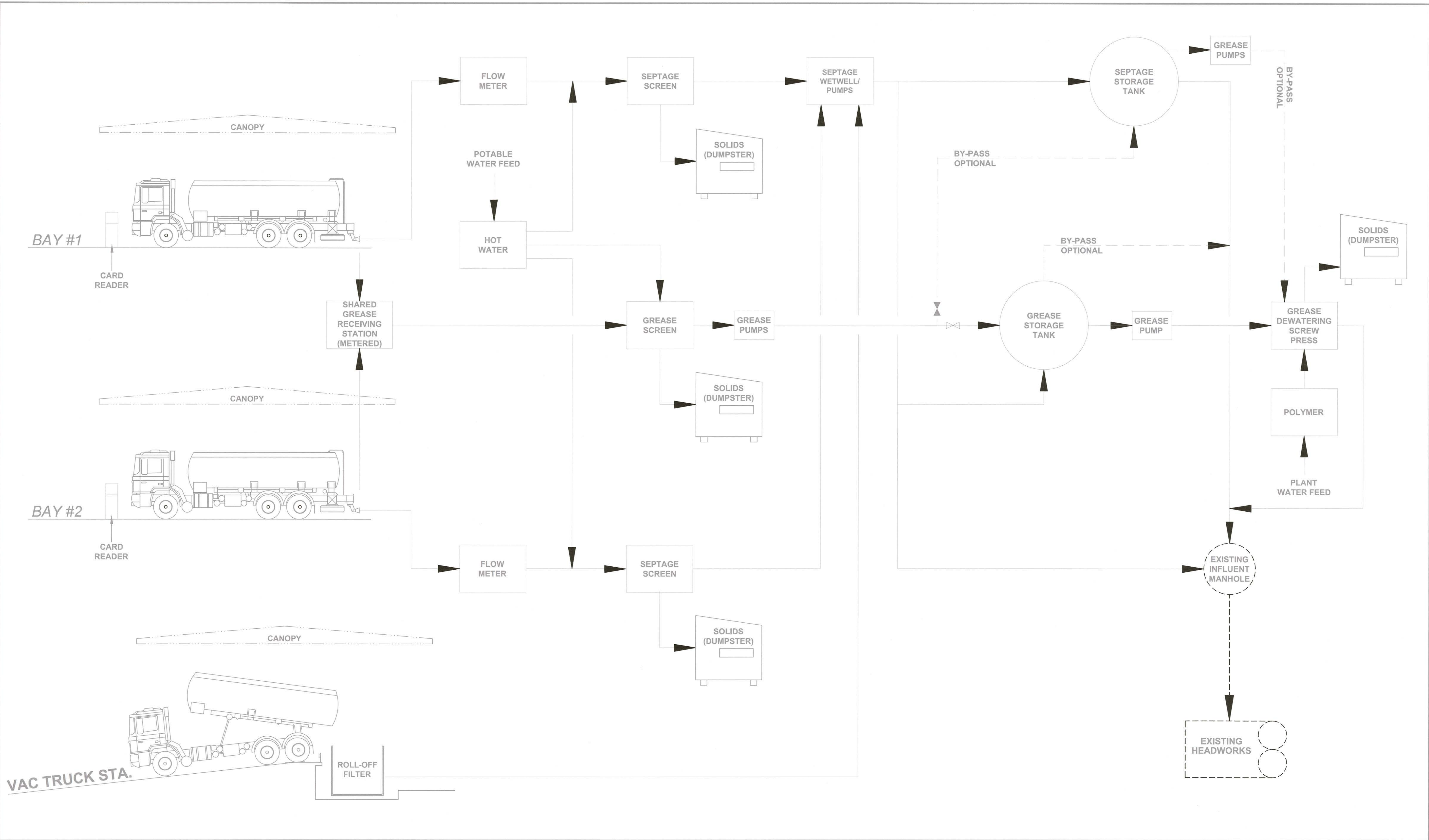
CLEARWATER
380 PARK PLACE BLVD, STE 300, CLEARWATER, FL 33759 TEL:
(727) 531-3505 (800) 861-8314
www.cardno.com Certificate of Authorization No. 29915

DAVID A. O'CONNOR, PE DATE
LIC. NO.: 56803

DESIGNED	DOC
DRAWN	ALS
Q.C.	
APPROVED	

AS-BUILT
EROSION CONTROL
DETAILS AND NOTES

PROJECT NO:	00193-009-02
DATE:	MARCH 2015
SHEET NO:	G-5



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NOTE:
2012 AERIAL PHOTOGRAPHY SHOWN

NO.	DESCRIPTION	BY	DATE

SEWRF
SEPTAGE/ GREASE
RECEIVING STATION



MANATEE COUNTY
DEPARTMENT OF PUBLIC WORKS
UTILITIES DEPARTMENT
4410 66th Street West Bradenton, Florida 34210
(941) 792-8811



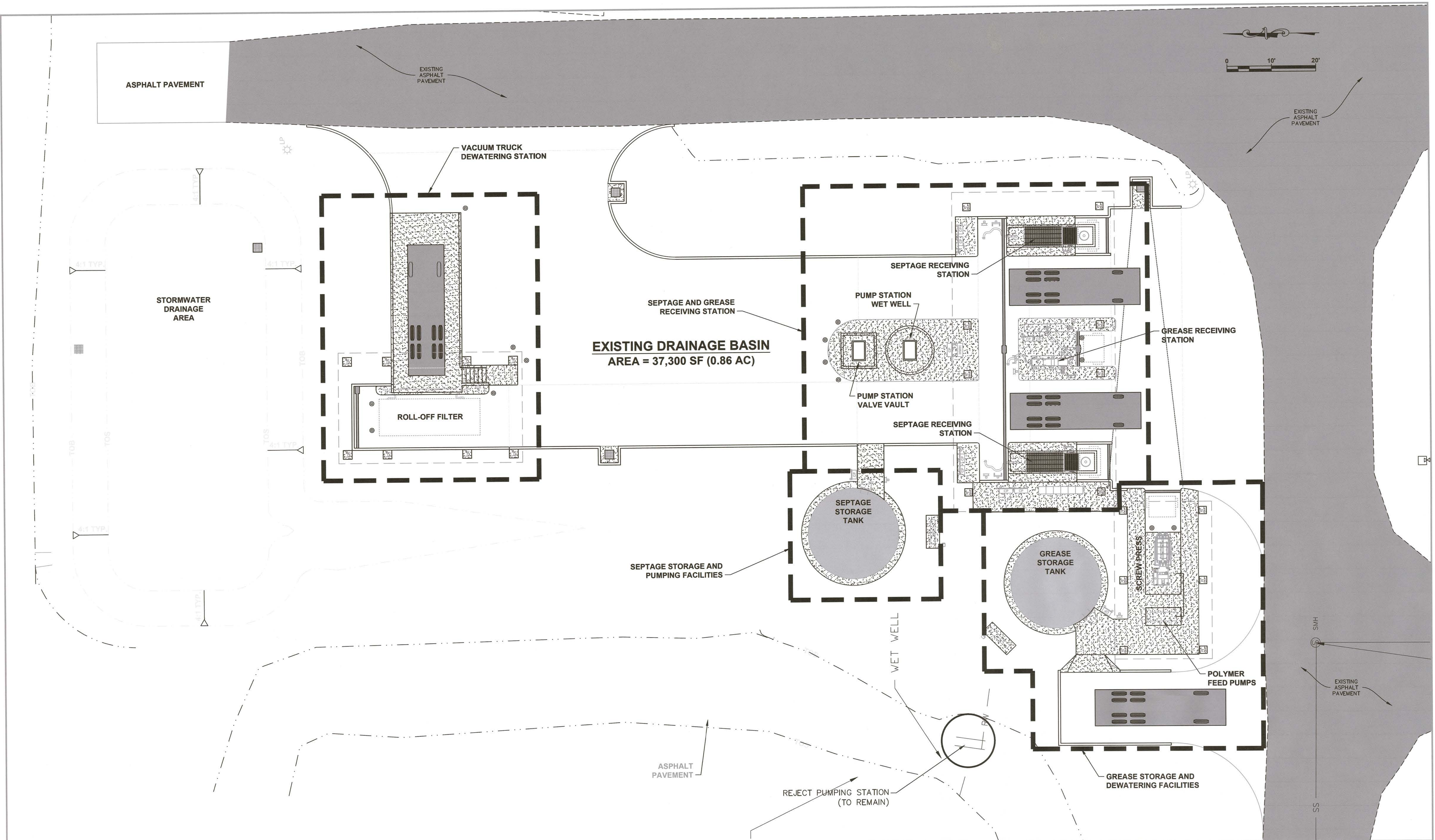
CLEARWATER
380 PARK PLACE BLVD, STE 300, CLEARWATER, FL 33759 TEL:
(727) 531-3505 (800) 861-8314
www.cardno.com Certificate of Authorization No. 29915

DAVID A. O'CONNOR, PE
LIC. NO.: 56803

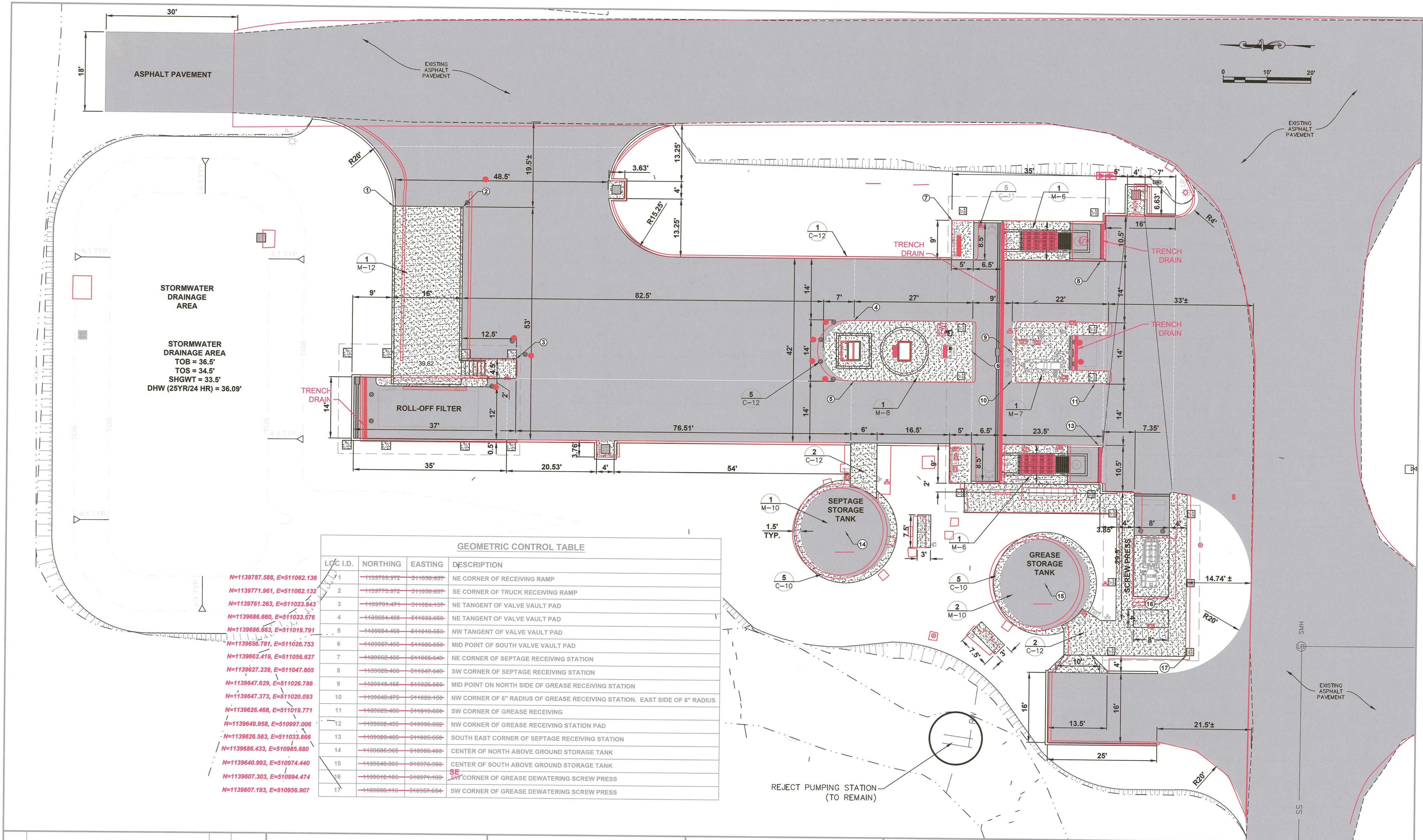
DESIGNED	DOC
DRAWN	ALS
Q.C.	
APPROVED	

AS-BUILT
OVERALL PROJECT AREA

PROJECT NO:
00193-009-02
DATE:
MARCH 2015
SHEET NO:
G-7



				 MANATEE COUNTY DEPARTMENT OF PUBLIC WORKS UTILITIES DEPARTMENT 4410 66th Street West Bradenton, Florida 34210 (941) 792-8811		 CARDNO Shaping the Future CLEARWATER 380 PARK PLACE BLVD, STE 300, CLEARWATER, FL 33759 TEL: (727) 531-3505 (800) 861-8314 www.cardno.com Certificate of Authorization No. 29915		DAVID A. O'CONNOR, PE LIC. NO.: 56803 DATE		DESIGNED DOC DRAWN ALS Q.C. APPROVED		PROJECT NO: 00193-009-02 DATE: MARCH 2015 SHEET NO: C-2					
DESCRIPTION BY DATE				SEWRF SEPTAGE/ GREASE RECEIVING STATION		MANATEE COUNTY DEPARTMENT OF PUBLIC WORKS UTILITIES DEPARTMENT 4410 66th Street West Bradenton, Florida 34210 (941) 792-8811		 CARDNO Shaping the Future CLEARWATER 380 PARK PLACE BLVD, STE 300, CLEARWATER, FL 33759 TEL: (727) 531-3505 (800) 861-8314 www.cardno.com Certificate of Authorization No. 29915		DAVID A. O'CONNOR, PE LIC. NO.: 56803 DATE		DESIGNED DOC DRAWN ALS Q.C. APPROVED		AS-BUILT SITE LAYOUT AND FACILITIES PAY ITEMS PLAN		PROJECT NO: 00193-009-02 DATE: MARCH 2015 SHEET NO: C-2	



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GEOMETRIC CONTROL TABLE			
LOC. I.D.	NORTHING	EASTING	DESCRIPTION
1	1139789.372	511056.857	NE CORNER OF RECEIVING RAMP
2	1139773.372	511056.857	SE CORNER OF TRUCK RECEIVING RAMP
3	1139761.471	511024.157	NE TANGENT OF VALVE VAULT PAD
4	1139684.468	511033.658	NE TANGENT OF VALVE VAULT PAD
5	1139684.468	511040.658	NW TANGENT OF VALVE VAULT PAD
6	1139657.466	511026.658	MID POINT OF SOUTH VALVE VAULT PAD
7	1139662.466	511056.649	NE CORNER OF SEPTAGE RECEIVING STATION
8	1139620.466	511047.649	SW CORNER OF SEPTAGE RECEIVING STATION
9	1139648.466	511026.658	MID POINT ON NORTH SIDE OF GREASE RECEIVING STATION
10	1139640.475	511020.158	NW CORNER OF 6" RADIUS OF GREASE RECEIVING STATION. EAST SIDE OF 6" RADIUS
11	1139620.466	511049.658	SW CORNER OF GREASE RECEIVING
12	1139602.455	510996.602	NW CORNER OF GREASE RECEIVING STATION PAD
13	1139620.465	511085.658	SOUTH EAST CORNER OF SEPTAGE RECEIVING STATION
14	1139686.566	510985.403	CENTER OF NORTH ABOVE GROUND STORAGE TANK
15	1139640.966	510979.903	CENTER OF SOUTH ABOVE GROUND STORAGE TANK
16	1139612.466	510974.199	SE CORNER OF GREASE DEWATERING SCREW PRESS
17	1139608.444	510957.654	SW CORNER OF GREASE DEWATERING SCREW PRESS

REVIS

NO.

DESCRIPTION

DES

06/2015

BY

DATE

SEWRF

SEPTAGE/ GREASE

RECEIVING STATION

MANATEE COUNTY
DEPARTMENT OF PUBLIC WORKS
UTILITIES DEPARTMENT
4410 66th Street West Bradenton, Florida 34210
(941) 792-8811

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CLEARWATER
380 PARK PLACE BLVD, STE 300, CLEARWATER, FL 33759 TEL:
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DESIGNED

DOC

DRAWN

ALS

Q.C.

APPROVED

DATE

DAVID A. O'CONNOR, PE
LIC. NO.: 56803

AS-BUILT

PROPOSED SITE PLAN

PROJECT NO:

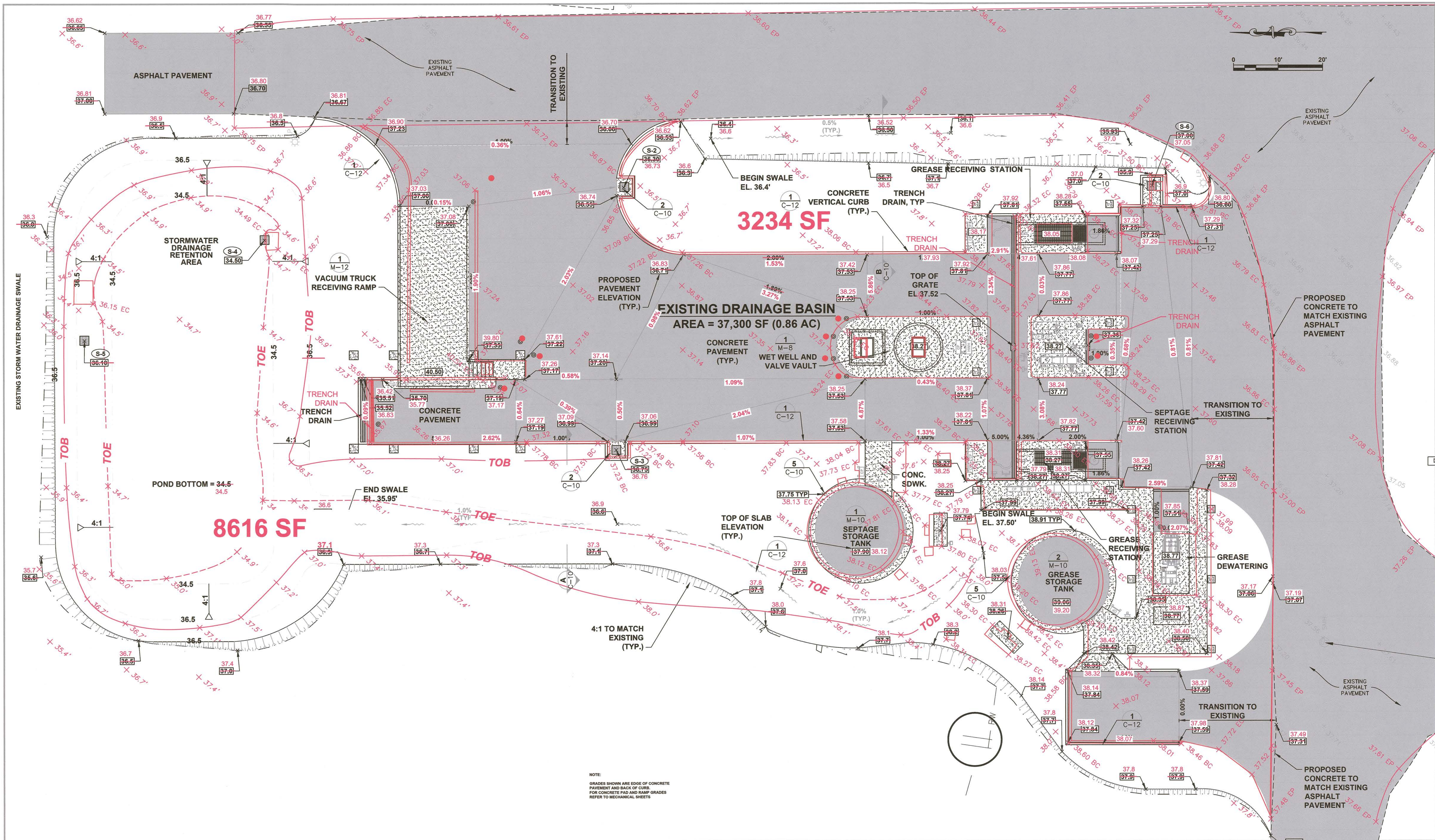
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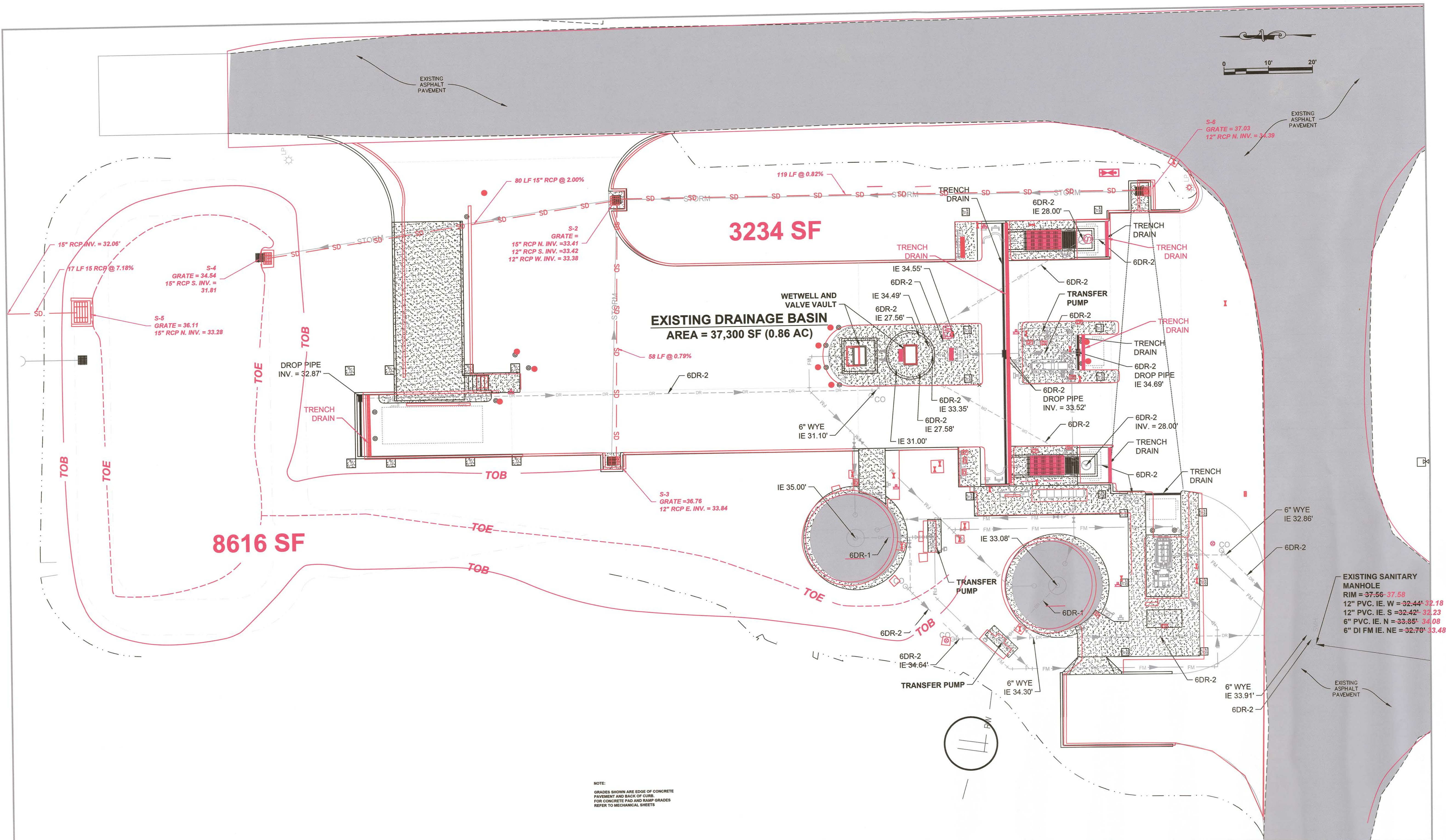
MARCH 2015

SHEET NO:

C-3



SEWRF SEPTAGE/ GREASE RECEIVING STATION				MANATEE COUNTY DEPARTMENT OF PUBLIC WORKS UTILITIES DEPARTMENT 4410 66th Street West Bradenton, Florida 34210 (941) 792-8811		Cardno Shaping the Future CLEARWATER 380 PARK PLACE BLVD, STE 300, CLEARWATER, FL 33759 TEL: (727) 531-3505 (800) 861-8314 www.cardno.com Certificate of Authorization No. 29915		DAVID A. O'CONNOR, PE LIC. NO.: 56803		DESIGNED DOC DRAWN ALS Q.C. APPROVED		AS-BUILT PAVING AND GRADING PLAN		PROJECT NO: 00193-009-02 DATE: MARCH 2015 SHEET NO: C-4	
NO. DESCRIPTION				DES BY DATE		DATE		DATE		DATE		DATE		DATE	
REVIS				DES 06/2015											



NO.	REVISION	DESCRIPTION	DESIGNED	DATE
1	REVISED DRAIN PIPING		DES	06/2015

FILE: X:\Landprojects\12-1697-7 SEWRF Grease Rec Sta\AS-BUILT\Sheets\PLAN SHEETS-ASB.dwg LAST SAVED: Mon, 08/28/17-11:14a PLOTTED: Mon, 08/28/17-12:40p BY: m.jones

SEWRF SEPTAGE/ GREASE RECEIVING STATION



MANATEE COUNTY
DEPARTMENT OF PUBLIC WORKS
UTILITIES DEPARTMENT
4410 66th Street West Bradenton, Florida 34210
(941) 792-8811

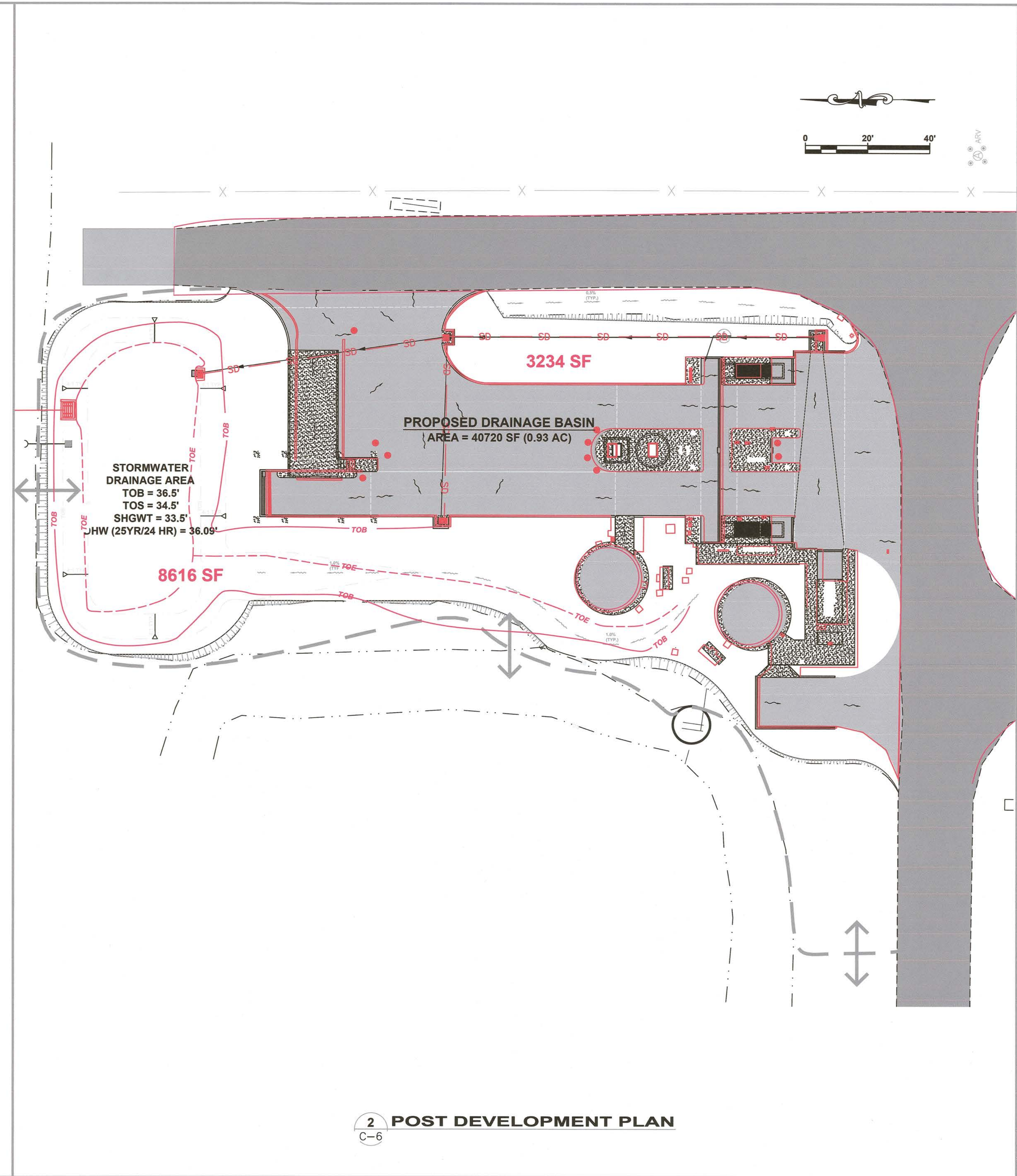
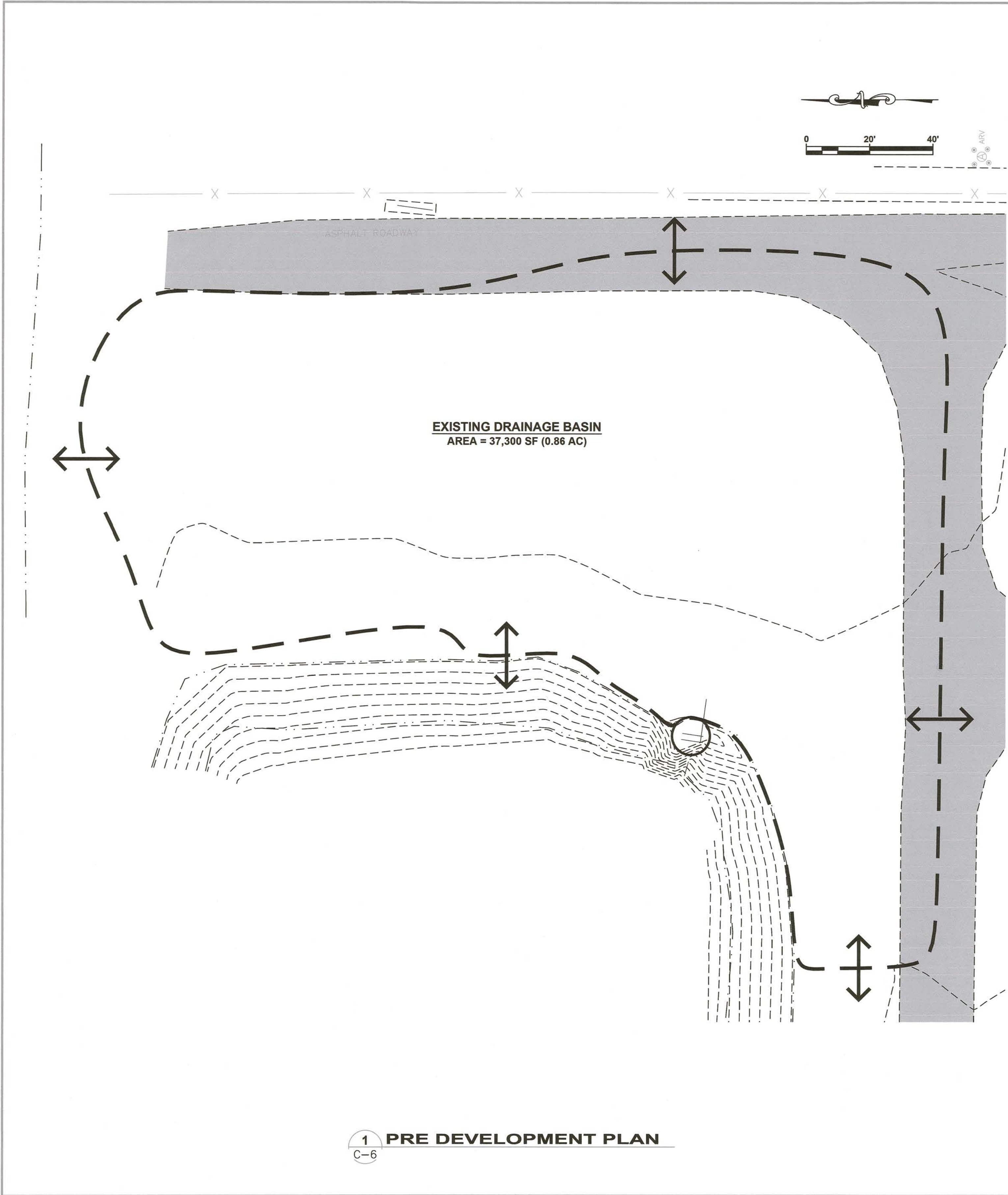
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DAVID A. O'CONNOR, PE
LIC. NO.: 56903

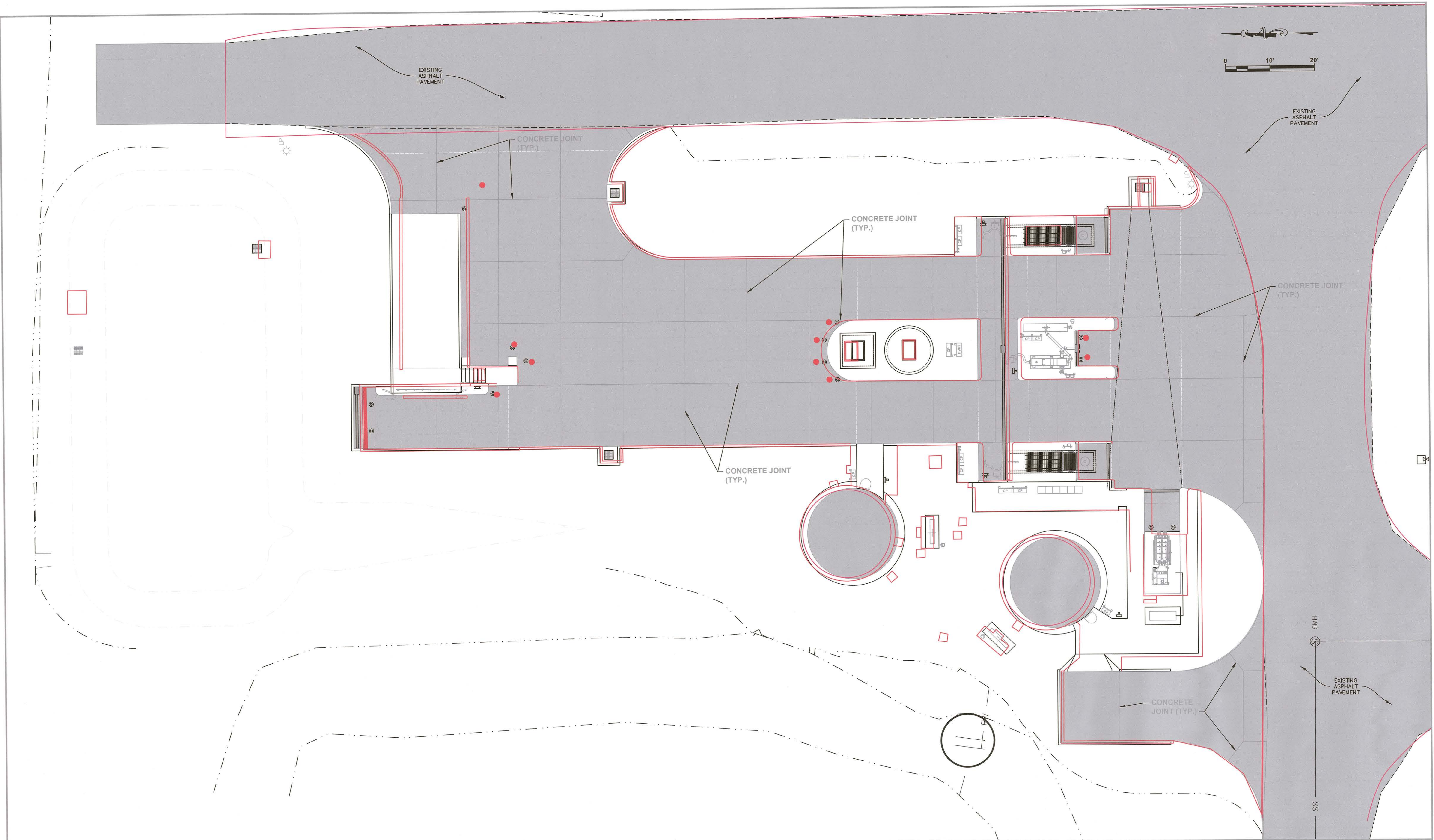
DESIGNED
DRAWN
Q.C.
APPROVED

AS-BUILT PLANT DRAIN PIPING PLAN

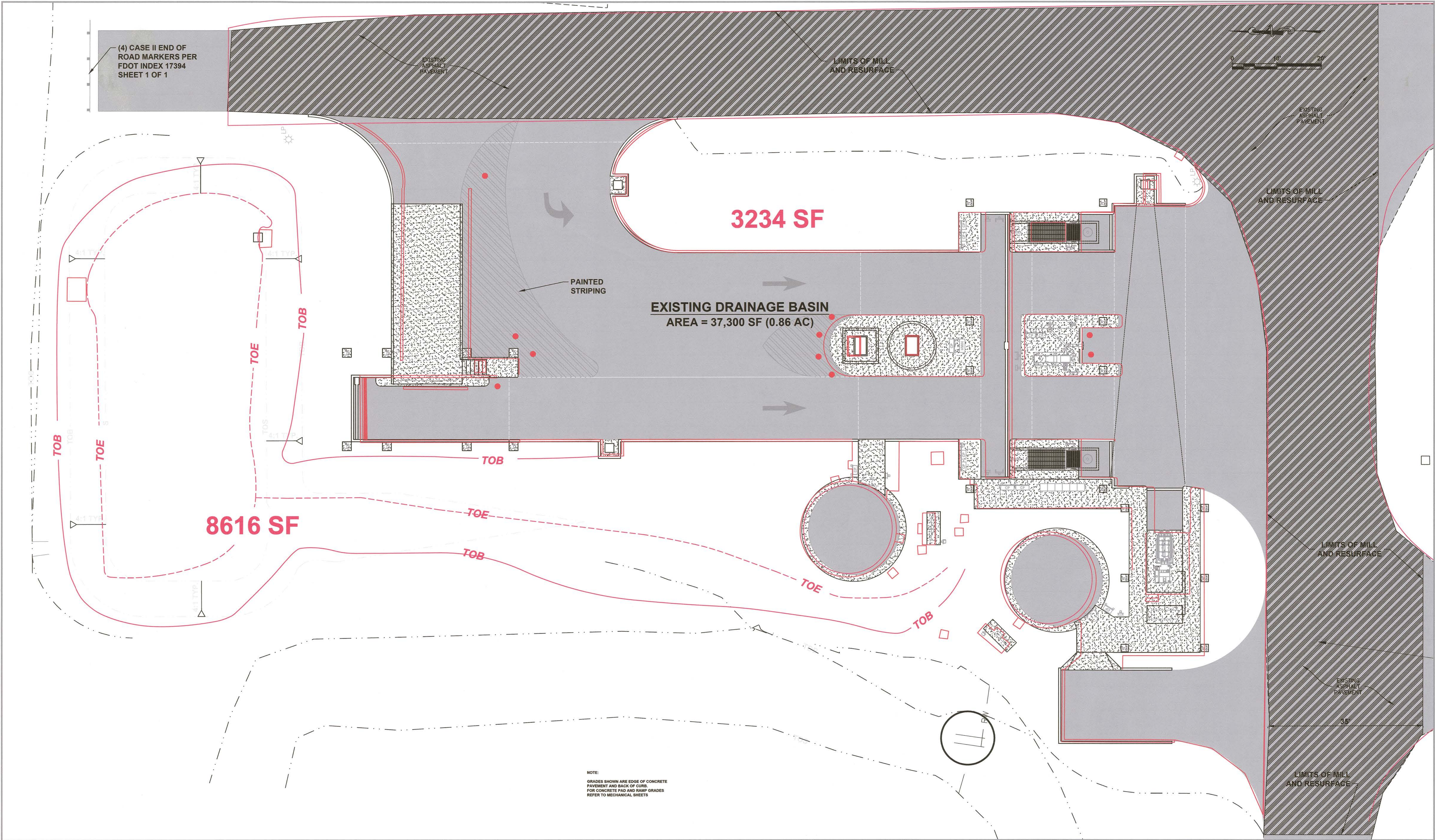
PROJECT NO:
00193-009-02
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C-5



				SEWRF SEPTAGE/ GREASE RECEIVING STATION		 MANATEE COUNTY DEPARTMENT OF PUBLIC WORKS UTILITIES DEPARTMENT 4410 66th Street West Bradenton, Florida 34210 (941) 792-8811		 CARDNO Shaping the Future CLEARWATER 380 PARK PLACE BLVD, STE 300, CLEARWATER, FL 33759 TEL: (727) 531- 3505 (800) 861-8314 www.cardno.com Certificate of Authorization No. 29915		DAVID A. O'CONNOR, PE LIC. NO.: 56803 DATE		DESIGNED DOC DRAWN ALS Q.C. APPROVED		AS-BUILT SITE DRAINAGE BASINS		PROJECT NO: 00193-009-02 DATE: MARCH 2015 SHEET NO: C-6	
NO. DESCRIPTION BY DATE																	



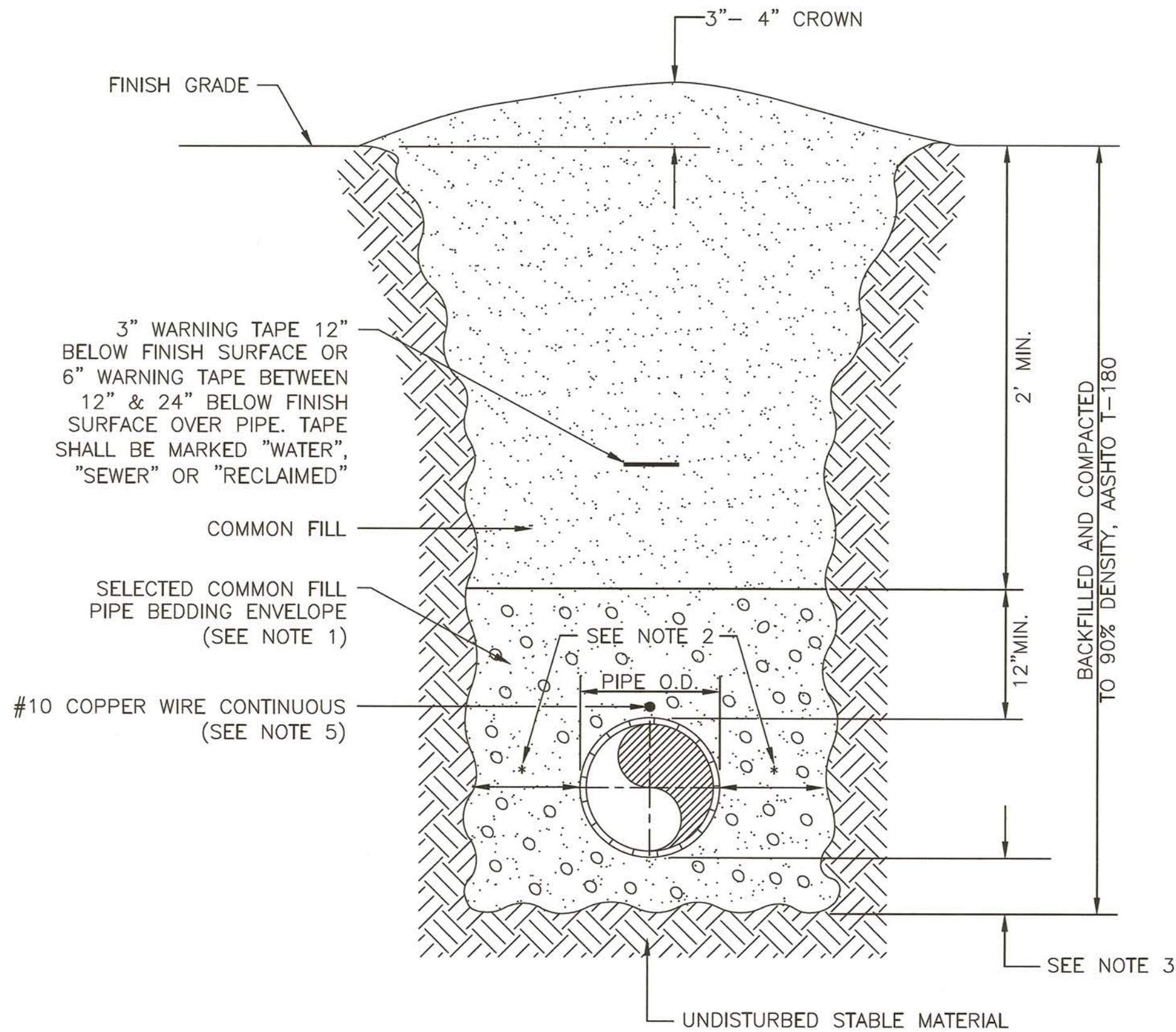
SEWRF SEPTAGE/ GREASE RECEIVING STATION		 MANATEE COUNTY DEPARTMENT OF PUBLIC WORKS UTILITIES DEPARTMENT 4410 66th Street West Bradenton, Florida 34210 (941) 792-8811	 Cardno Shaping the Future CLEARWATER 380 PARK PLACE BLVD, STE 300, CLEARWATER, FL 33759 TEL: (727) 531-3505 (800) 861-8314 www.cardno.com Certificate of Authorization No. 29915	DAVID A. O'CONNOR, PE LIC. NO.: 56803	DATE	DESIGNED DOC DRAWN ALS Q.C. APPROVED	AS-BUILT CONCRETE CONSTRUCTION JOINT PLAN	PROJECT NO: 00193-009-02 DATE: MARCH 2015 SHEET NO: C-7
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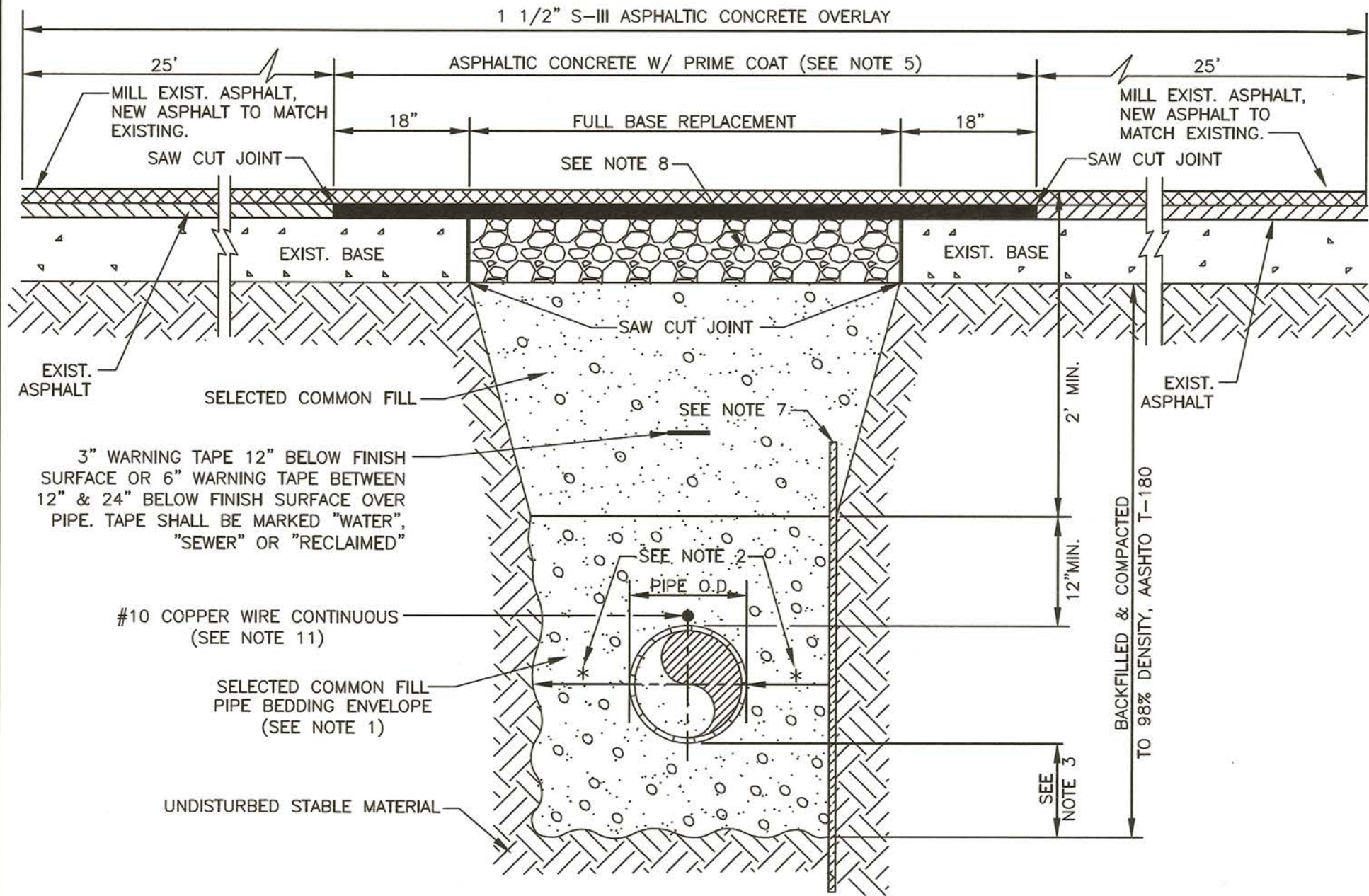
1. USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
3. TYPICALLY 4" TO 6".
4. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.



MANATEE COUNTY			TRENCH WITH UNIMPROVED SURFACE TYPE A-1 PIPE BEDDING	UG-11
REV. BY	DATE	DATE OF APPROVAL		
WRT/KE	03/11	MAY 10, 2011		
				PAGE 111

NOTES:

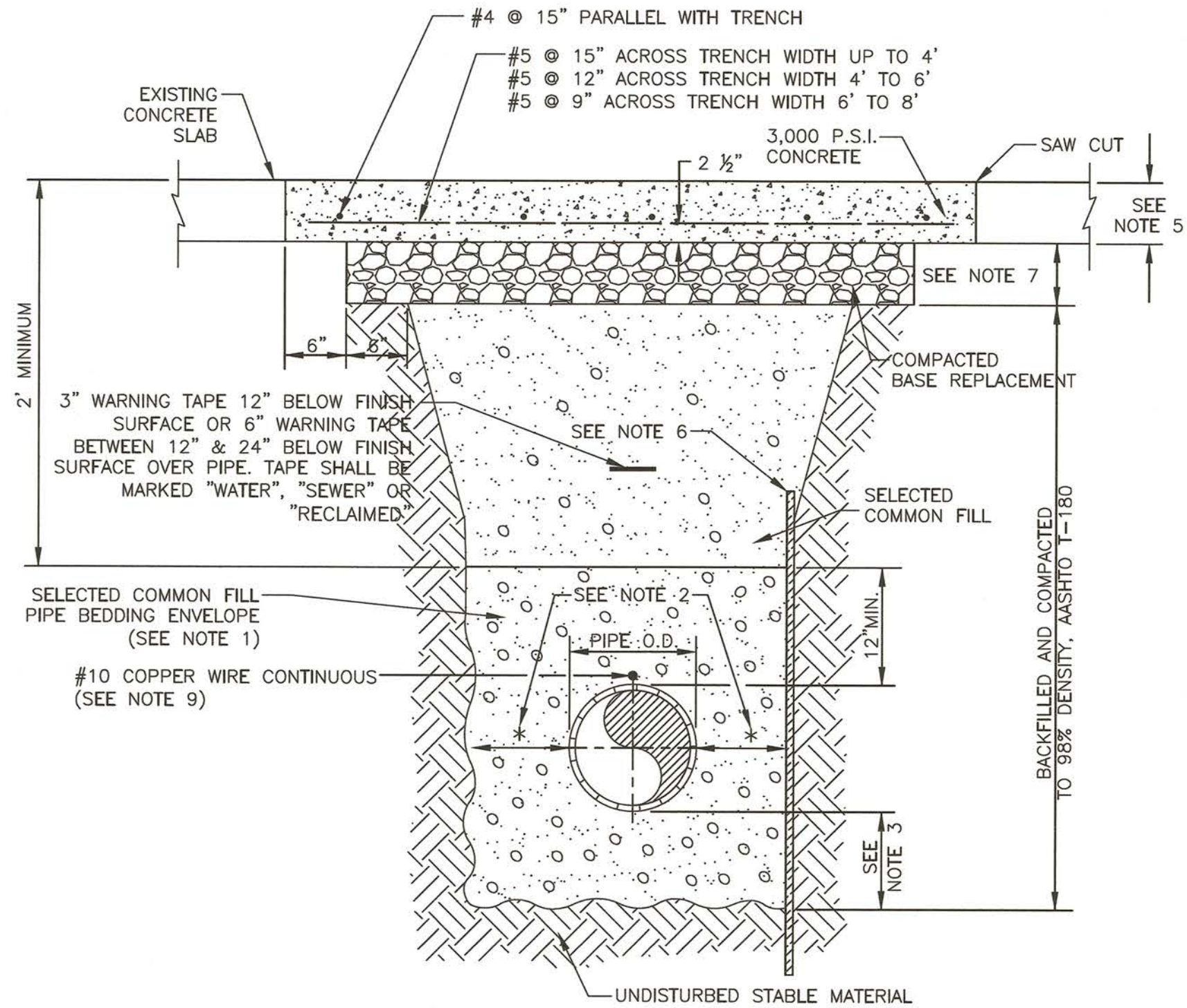
1. USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
3. TYPICALLY 4" TO 6".
4. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. ASPHALTIC CONCRETE STRUCTURE COURSE WITH PRIME COAT SHALL BE THE SAME DEPTH AND TYPE AS EXISTING OR A MINIMUM OF 1 1/4 INCH, WHICHEVER IS GREATER.
6. MILL 25' BACK FROM TRENCH SAW CUT. ADJUST MILLING PER INDIVIDUAL SITE TO NOT IMPACT BASE. BUTT JOINT TO EXIST ASPHALT. FINAL OVERLAY LIMITS ARE FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT. FINAL OVERLAY TO MATCH EXISTING WITH NO DISCERNABLE "BUMP" AT JOINT. MILLING LIMITS THAT IMPACT INTERSECTION SHALL BE ADDRESSED ON A CASE BY CASE BASIS AND APPROVED BY MANATEE COUNTY.
7. SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF 24" BELOW FINISHED GRADE OR 12" BELOW SUBGRADE.
8. BASE SHALL BE 8" MINIMUM THICKNESS CRUSHED CONCRETE.
9. TEMPORARY PATCHES WILL BE INSTALLED TO PROVIDE A SMOOTH ALL WEATHER SURFACE AT ALL TIMES. PERMANENT REPLACEMENT TO BE MADE AS SOON AS POSSIBLE.
10. RESTORE SIGNAGE & MARKING WITH THERMOPLASTIC PER FDOT STANDARDS, LATEST EDITION.
11. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.
12. NOTES 5. THRU 10. ARE MINIMUM REQUIREMENTS FOR A TRENCH IN A ROAD. REFER TO LATEST EDITION OF MANATEE COUNTY HIGHWAY AND TRAFFIC STANDARDS FOR ADDITIONAL REQUIREMENTS.



MANATEE COUNTY			TRENCH WITH ASPHALT PAVEMENT SURFACE TYPE A-1 PIPE BEDDING	UG-12
REV. BY	DATE	DATE OF APPROVAL		
WRT/KE	03/11	MAY 10, 2011		
				PAGE 112

NOTES:

1. USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
3. TYPICALLY 4" TO 6".
4. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. THICKNESS TO MATCH EXISTING OR BE 8" MINIMUM, WHICHEVER IS GREATER.
6. SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF 24" BELOW FINISHED GRADE OR 12" BELOW SUBGRADE.
7. BASE SHALL BE 8" MINIMUM THICKNESS CRUSHED CONCRETE.
8. TEMPORARY PATCHES WILL BE INSTALLED TO PROVIDE A SMOOTH ALL WEATHER SURFACE AT ALL TIMES. PERMANENT REPLACEMENT TO BE MADE AS SOON AS POSSIBLE.
9. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.
10. NOTES 5. THRU 8. ARE MINIMUM REQUIREMENTS. REFER TO MANATEE COUNTY HIGHWAY AND TRAFFIC STANDARDS FOR ADDITIONAL REQUIREMENTS.



MANATEE COUNTY			TRENCH WITH CONCRETE PAVEMENT SURFACE TYPE A-1 PIPE BEDDING	UG-13
REV. BY	DATE	DATE OF APPROVAL		
CLB/BR	11/10	MAY 10, 2011		
				PAGE 113

SEWRF
SEPTAGE/ GREASE
RECEIVING STATION



MANATEE COUNTY
DEPARTMENT OF PUBLIC WORKS
UTILITIES DEPARTMENT
4410 66th Street West Bradenton, Florida 34210
(941) 792-9811



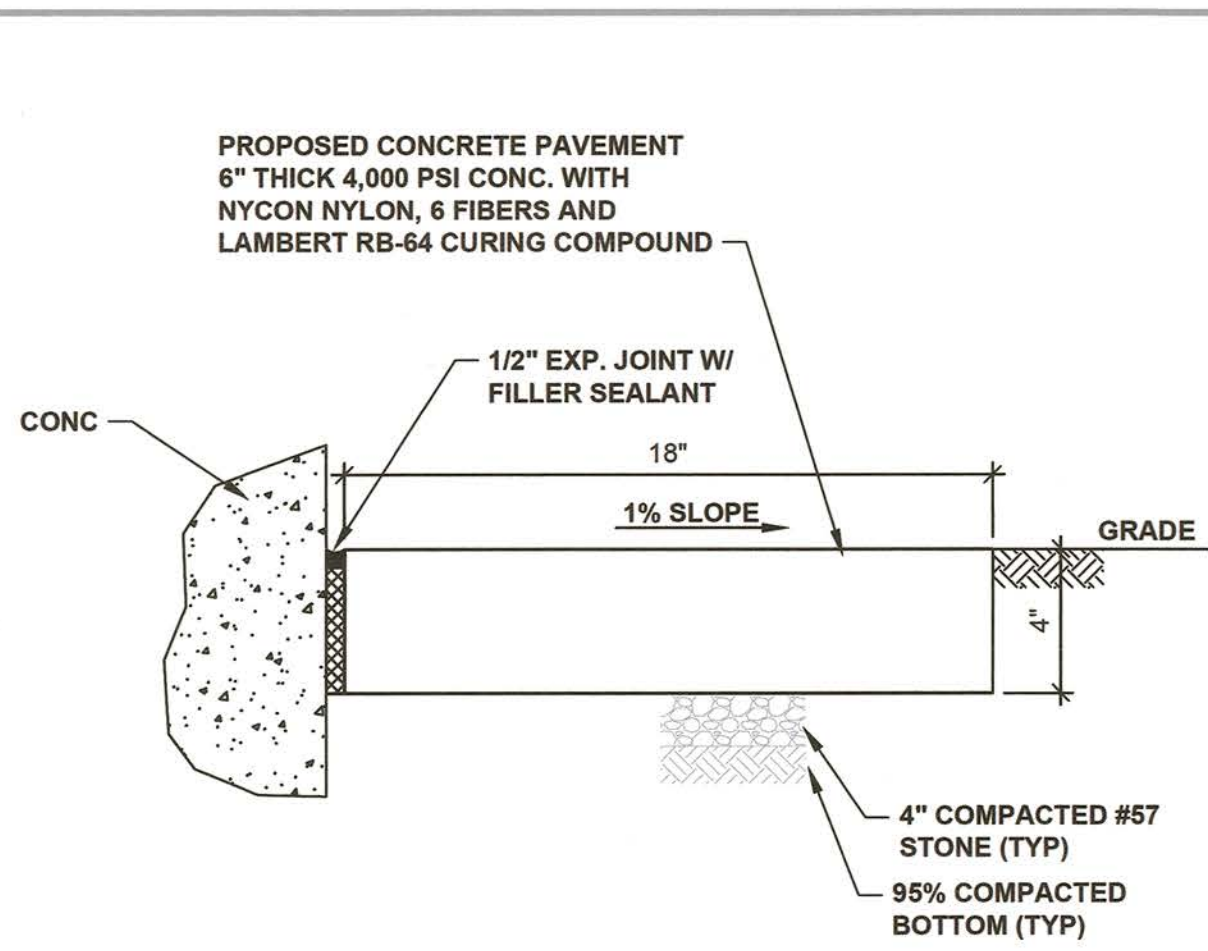
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DAVID A. O'CONNOR, PE DATE
LIC. NO.: 56603

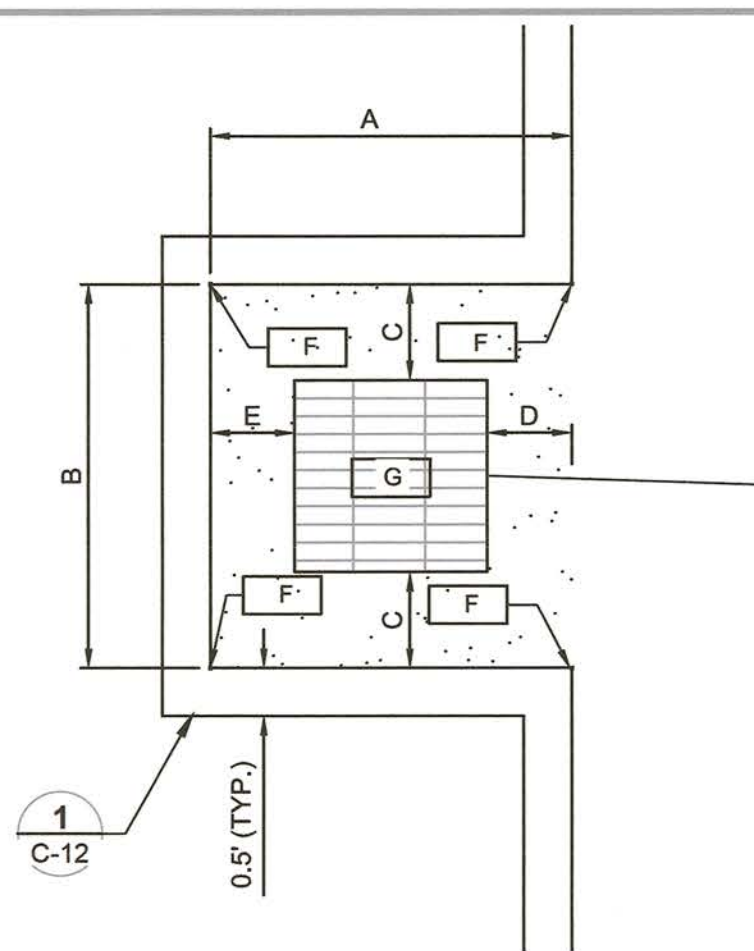
DESIGNED DOC
DRAWN ALS
Q.C.
APPROVED

AS-BUILT
CIVIL DETAILS (1)

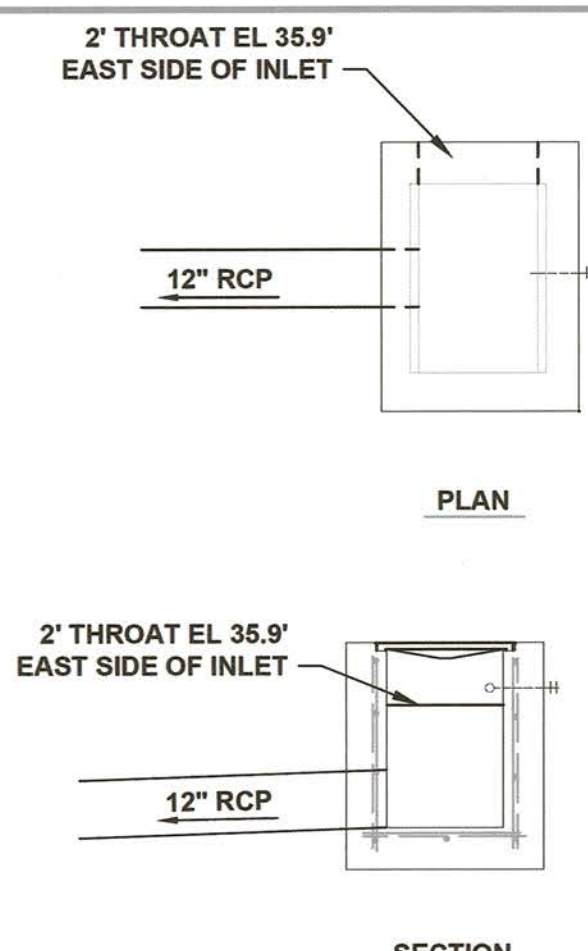
PROJECT NO:
00193-009-02
DATE:
MARCH 2015
SHEET NO:
C-9



1 LANDSCAPE APRON DETAIL
NTS
C-3

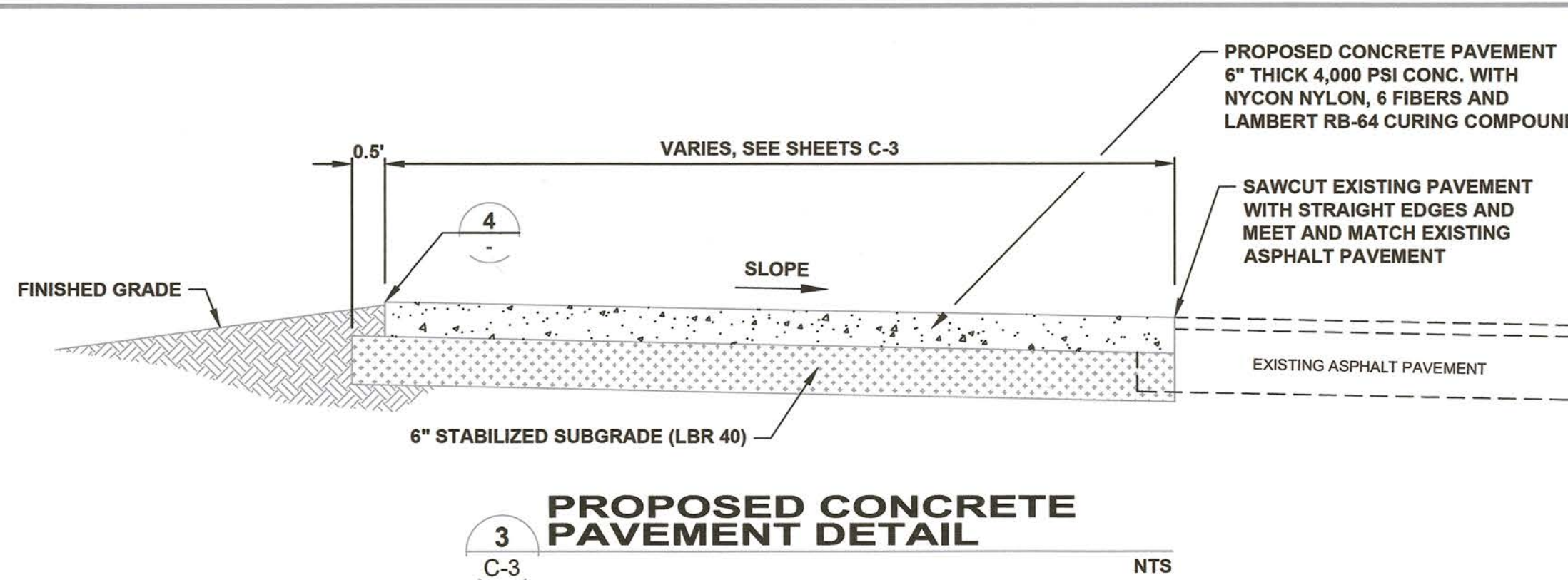


STRUCTURE DIMENSIONS & ELEVATIONS			
	S-3	S-2	S-6
A	3.76'	3.63'	6.63'
B	4.00'	4.00'	4.00'
C	1.00'	1.00'	1.00'
D	0.88'	0.75'	3.75'
E	0.88'	0.88'	0.88'
F	36.39'	36.55'	37.25'
G	36.75'	36.30'	37.00'

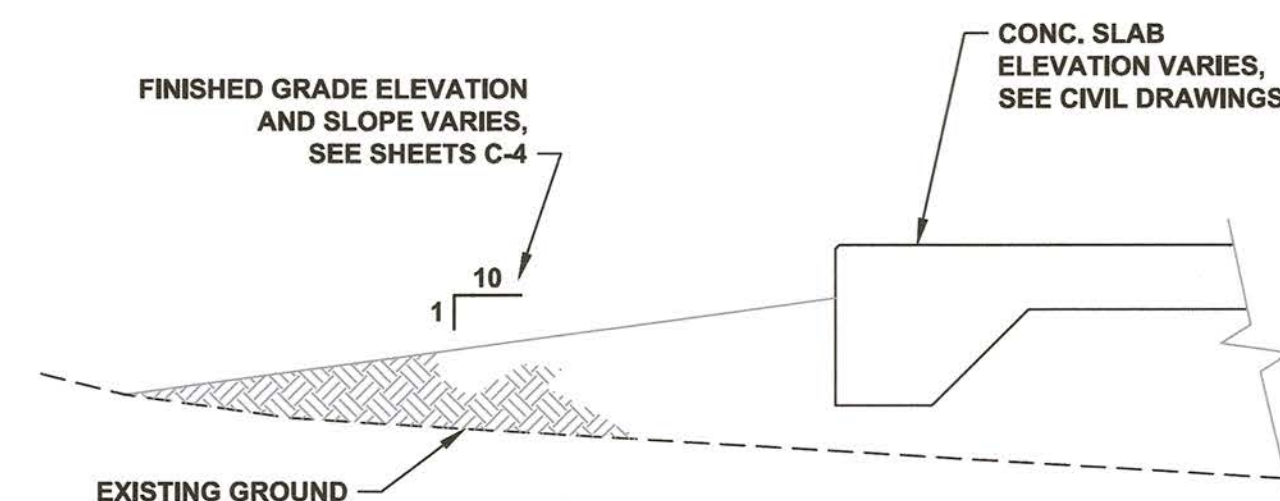


2 DRAINAGE STRUCTURE DETAILS AND ELEVATIONS
NTS
C-12

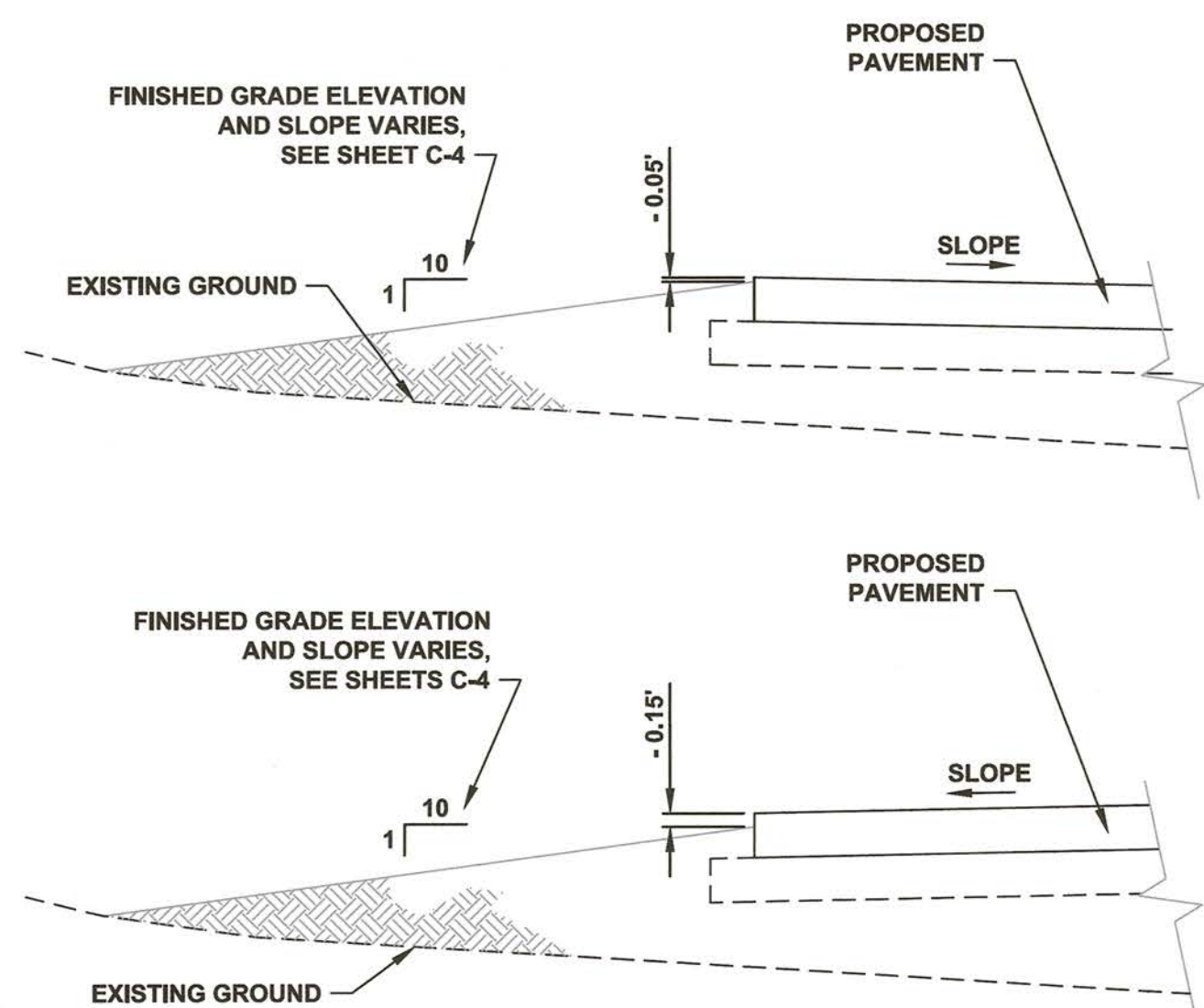
STRUCTURE S-1 MODIFIED
FOOT TYPE C STRUCTURE



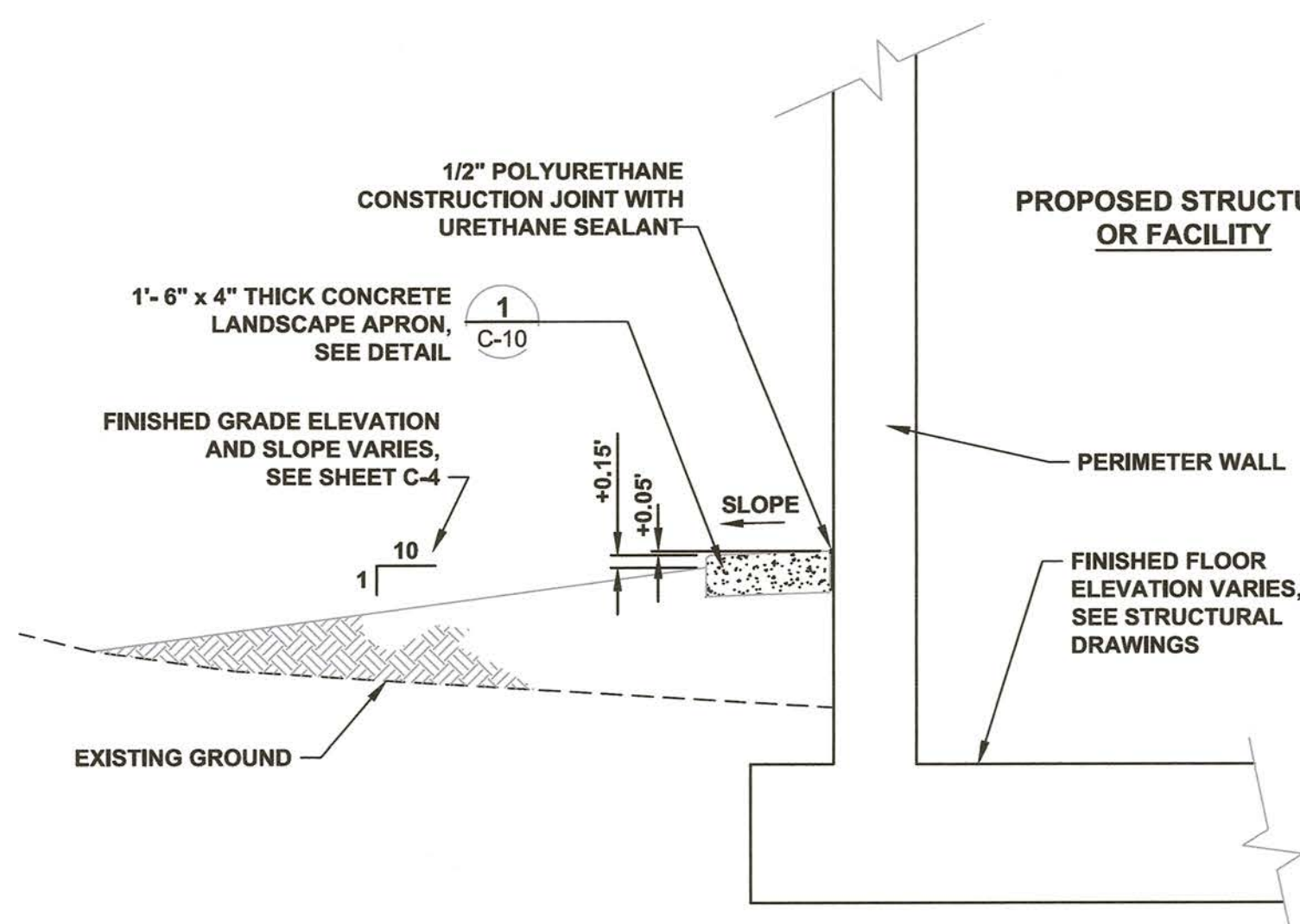
3 PROPOSED CONCRETE PAVEMENT DETAIL
NTS
C-3



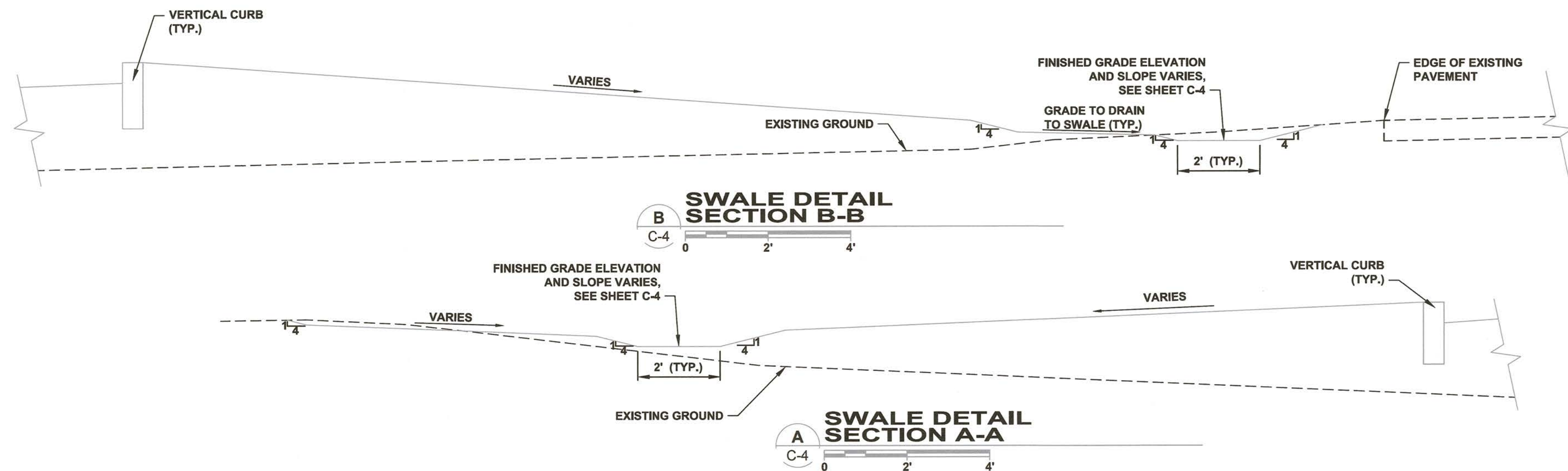
6 GRADING AT CONCRETE SLAB DETAIL
NTS
C-3



4 GRADING AT PROPOSED CONC. PAVEMENT DETAIL
NTS
C-3

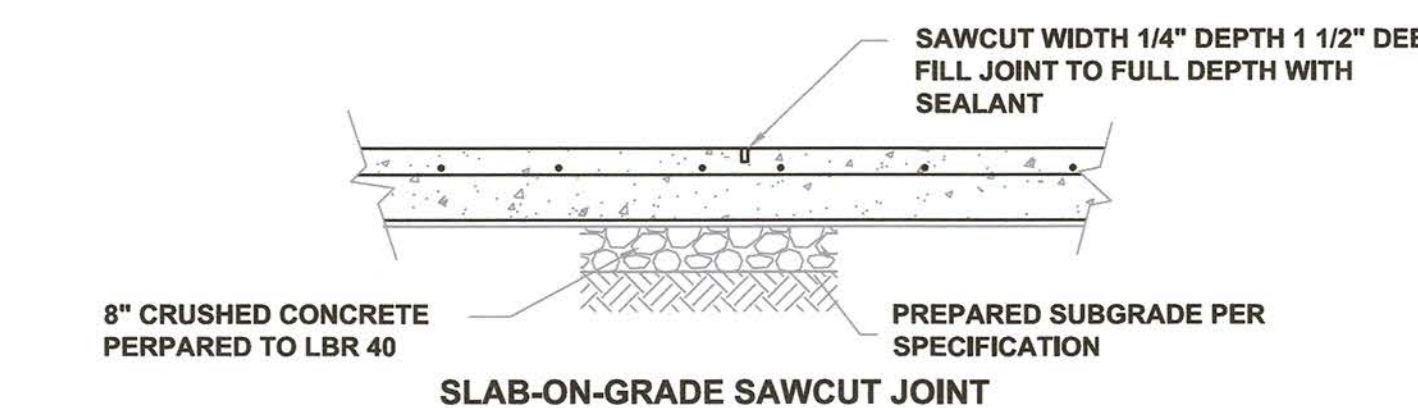
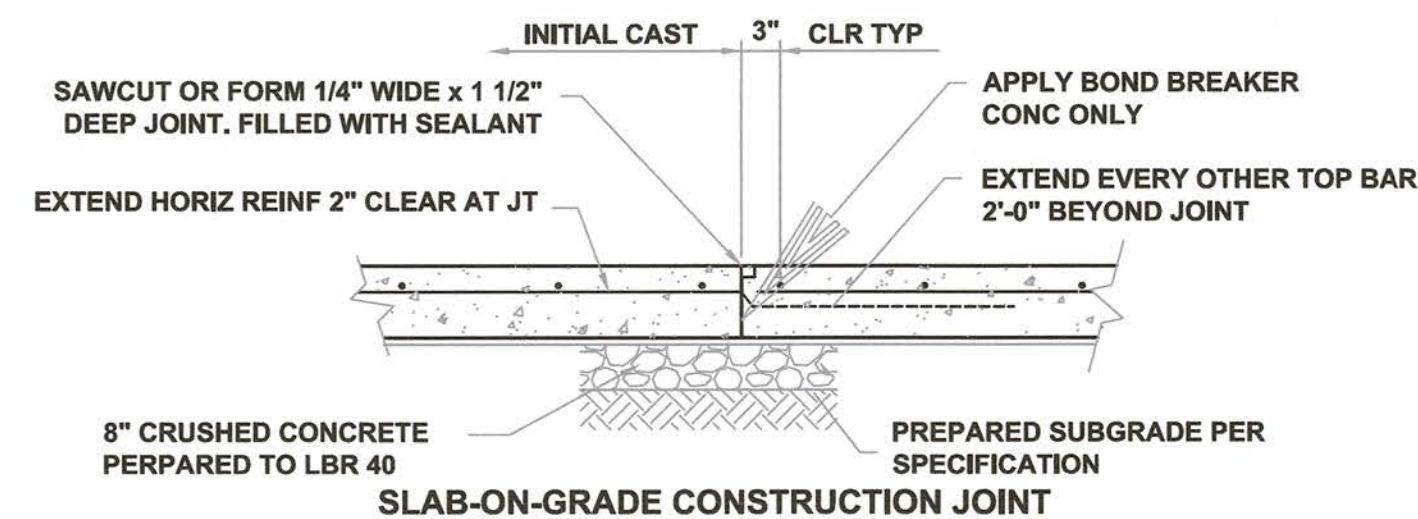


5 GRADING AT STRUCTURES DETAIL
NTS
C-3



4 SWALE DETAIL SECTION B-B
NTS
C-4

5 SWALE DETAIL SECTION A-A
NTS
C-4



NOTE:
ALLOW 48 HOURS BETWEEN PLACEMENT
OF INITIAL CAST AND SUBSEQUENT
CASTS.

7 TYPICAL CONCRETE JOINT DETAIL
NTS

SEWRF SEPTAGE/ GREASE RECEIVING STATION

MANATEE COUNTY
DEPARTMENT OF PUBLIC WORKS
UTILITIES DEPARTMENT
4410 66th Street West Bradenton, Florida 34210
(941) 792-8811

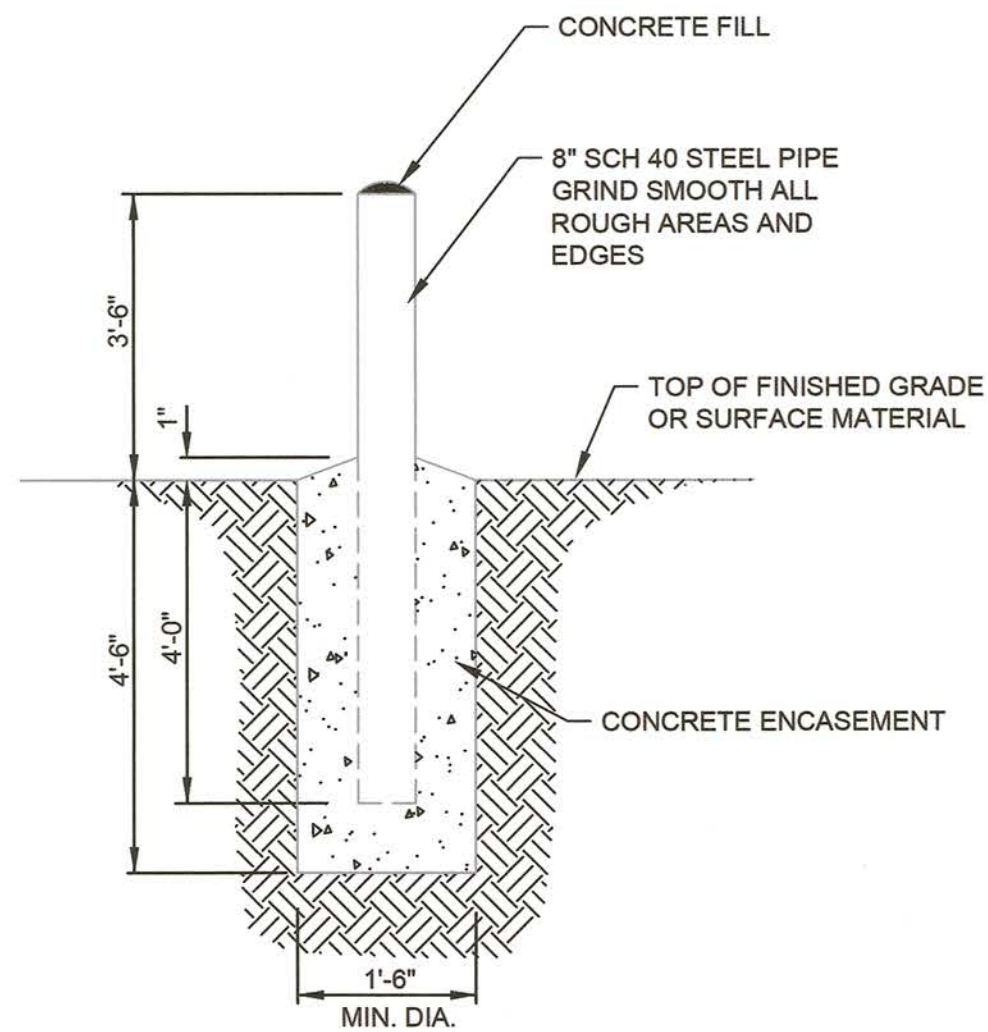
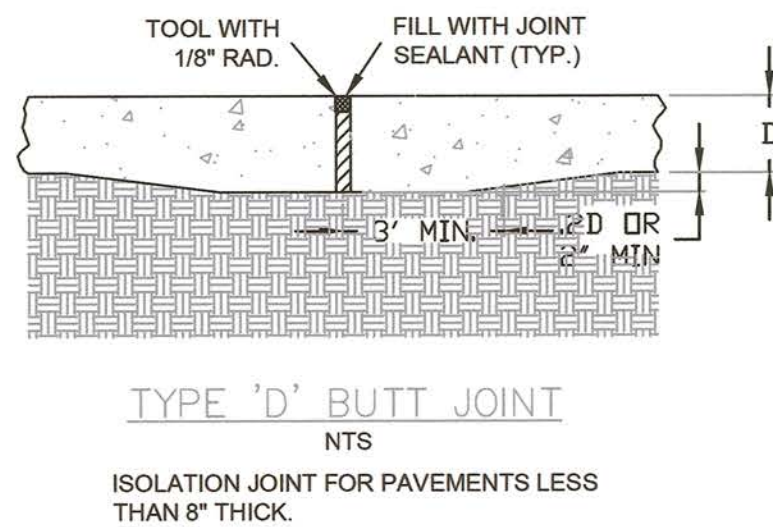
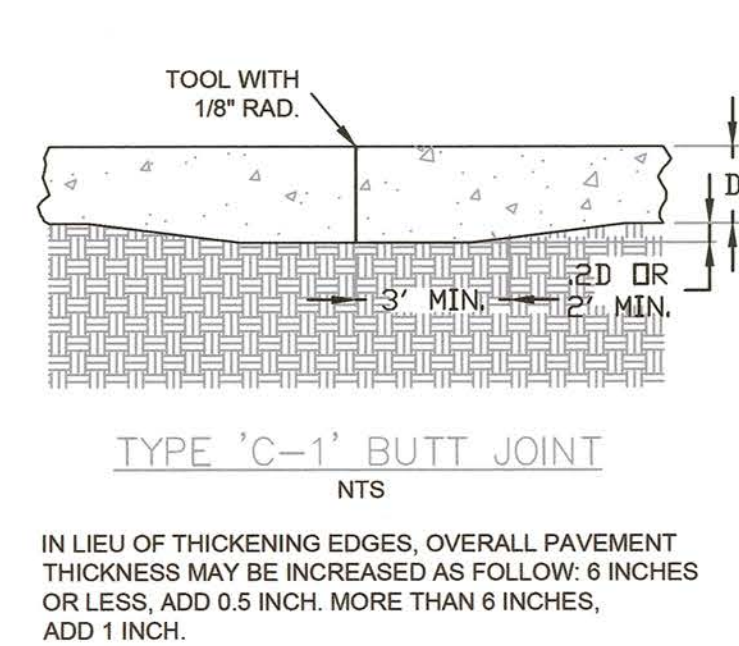
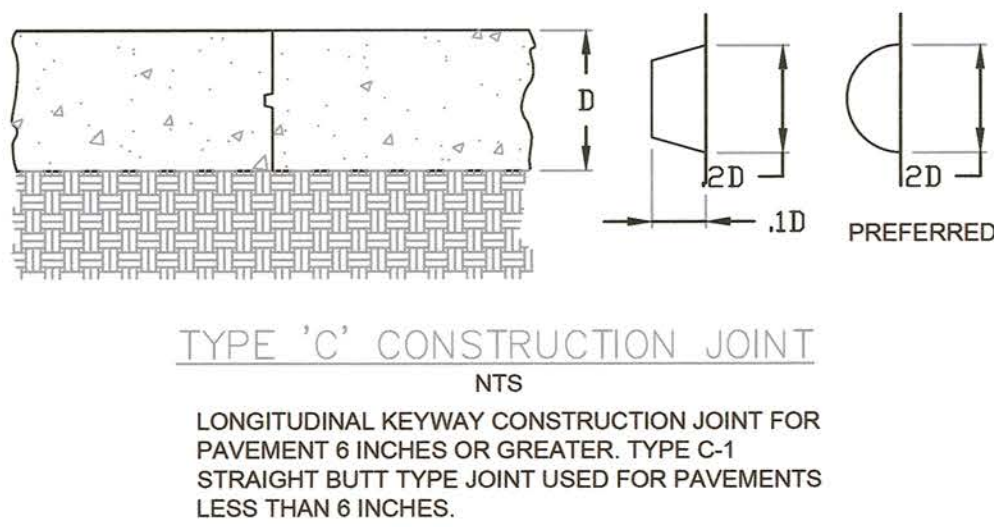
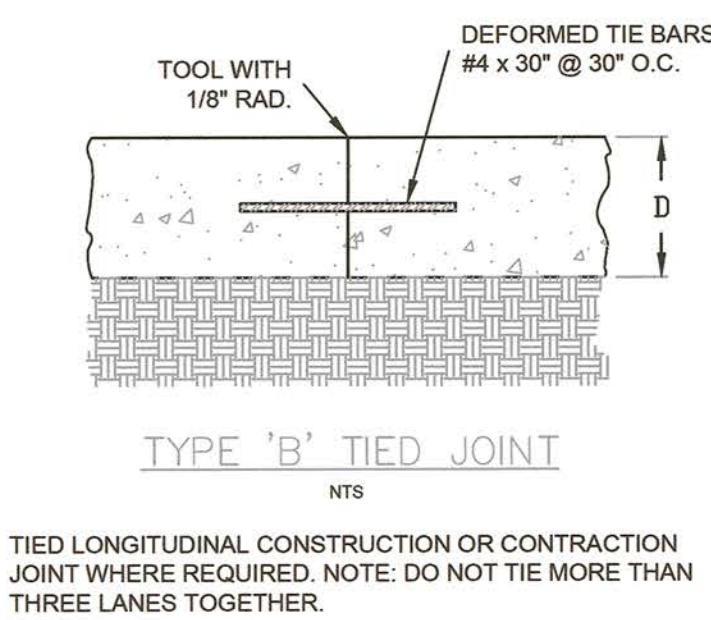
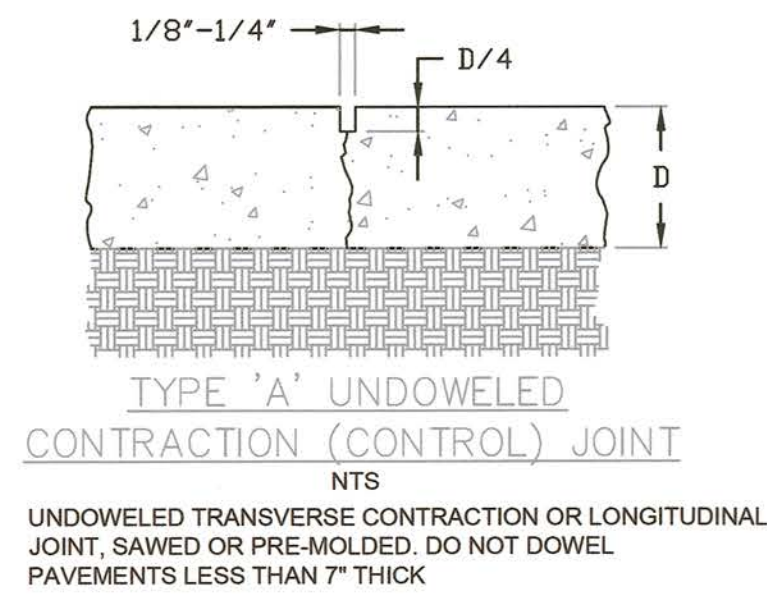
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DAVID A. O'CONNOR, PE DATE
LIC. NO.: 56803

DESIGNED DOC
DRAWN ALS
Q.C.
APPROVED

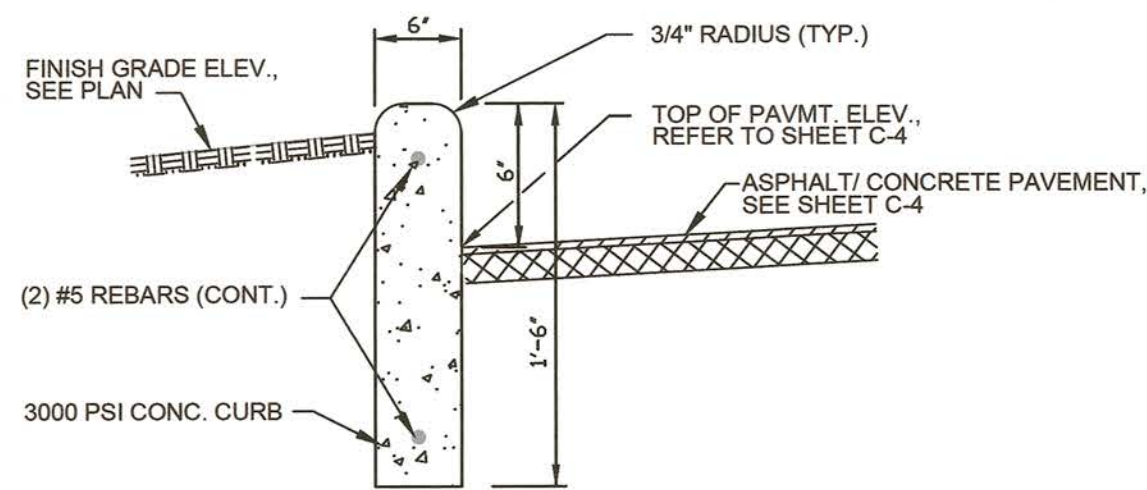
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PROJECT NO:
00193-009-02
DATE:
MARCH 2015
SHEET NO:
C-10

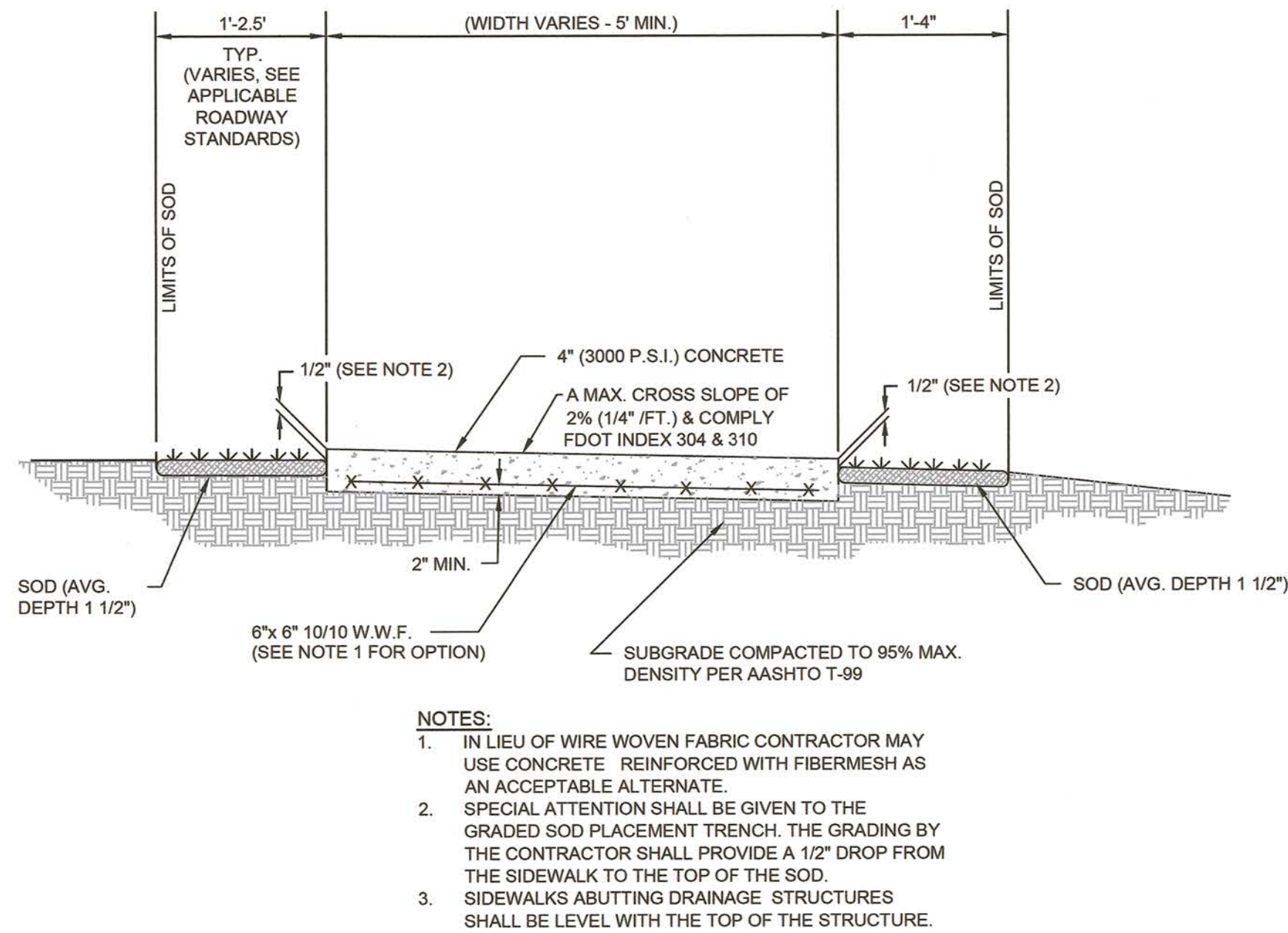


4 CONCRETE JOINT DETAIL
NTS

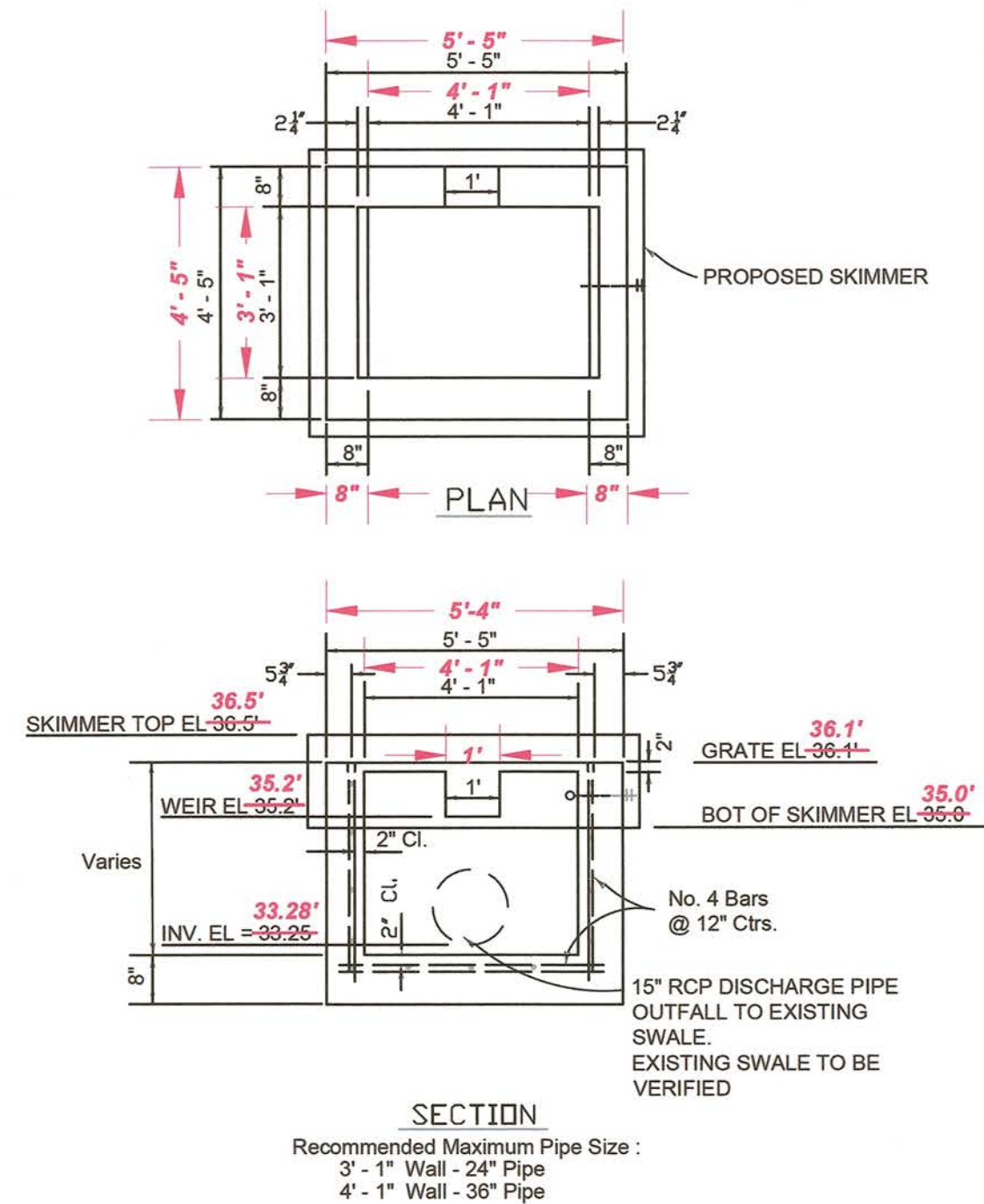
5 TYPICAL BOLLARD DETAIL
NTS



1 CONCRETE VERTICAL CURB DETAIL
NTS

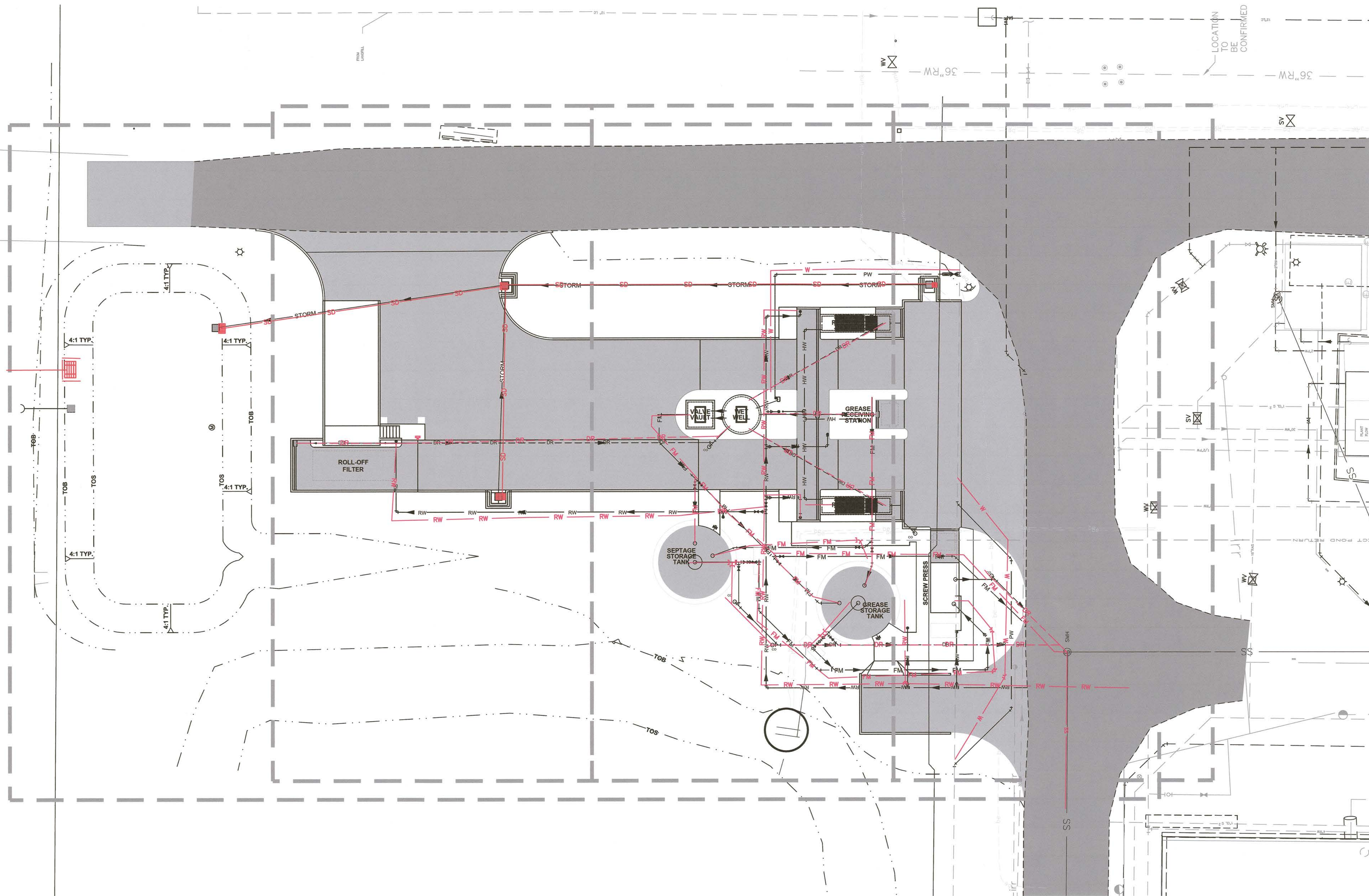


2 CONCRETE SIDEWALK DETAIL
NTS



3 MODIFIED FDOT TYPE D S-5 CONTROL STRUCTURE DETAIL
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NO.	DESCRIPTION	BY	DATE

SEWRF
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DEPARTMENT OF PUBLIC WORKS
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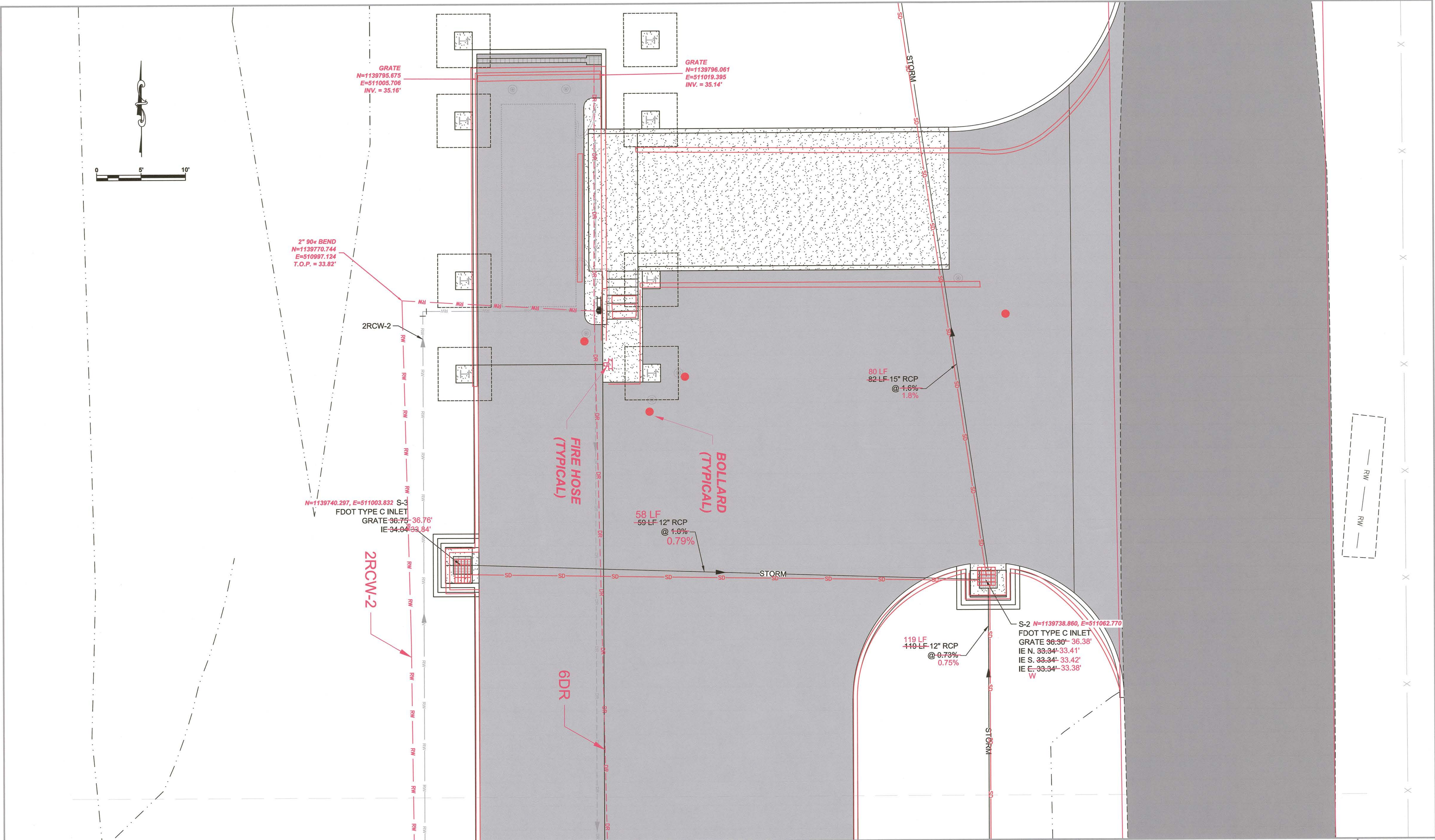
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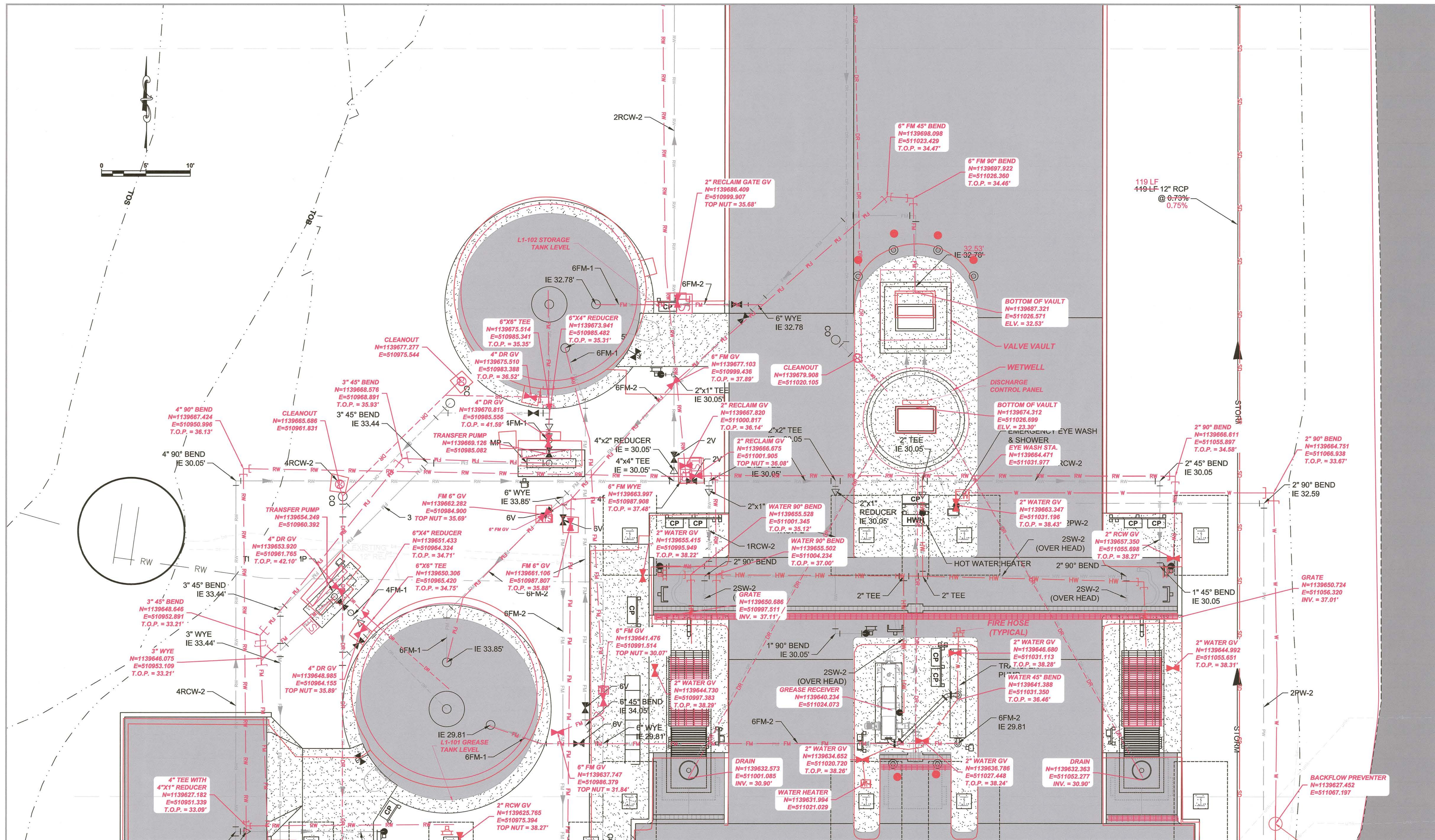
DAVID A. O'CONNOR, PE
LIC. NO.: 56803

DESIGNED	DOC
DRAWN	ALS
Q.C.	
APPROVED	

AS-BUILT
YARD PIPING KEY SHEET

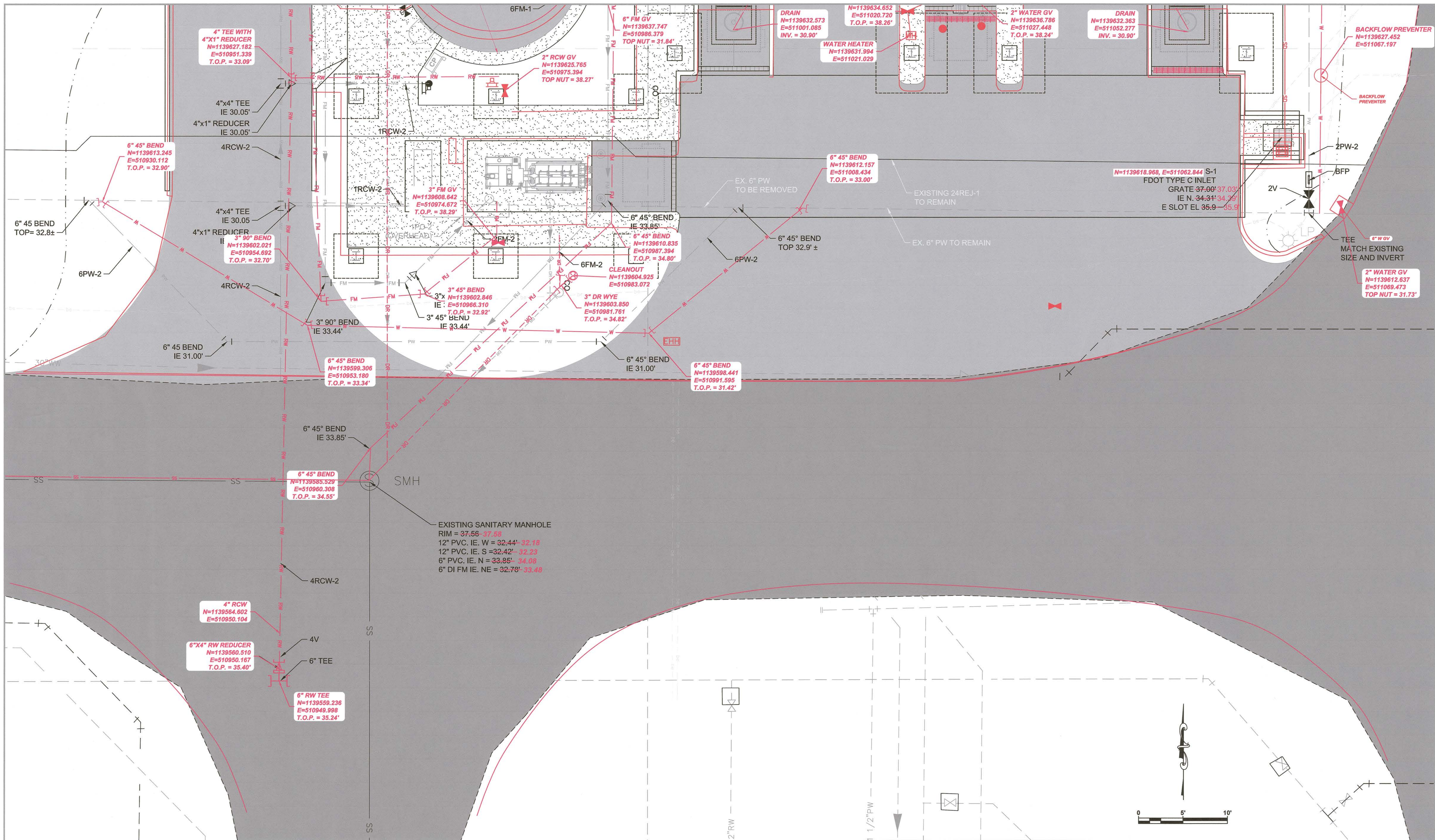
PROJECT NO:	00193-009-02
DATE:	MARCH 2015
SHEET NO:	M-1

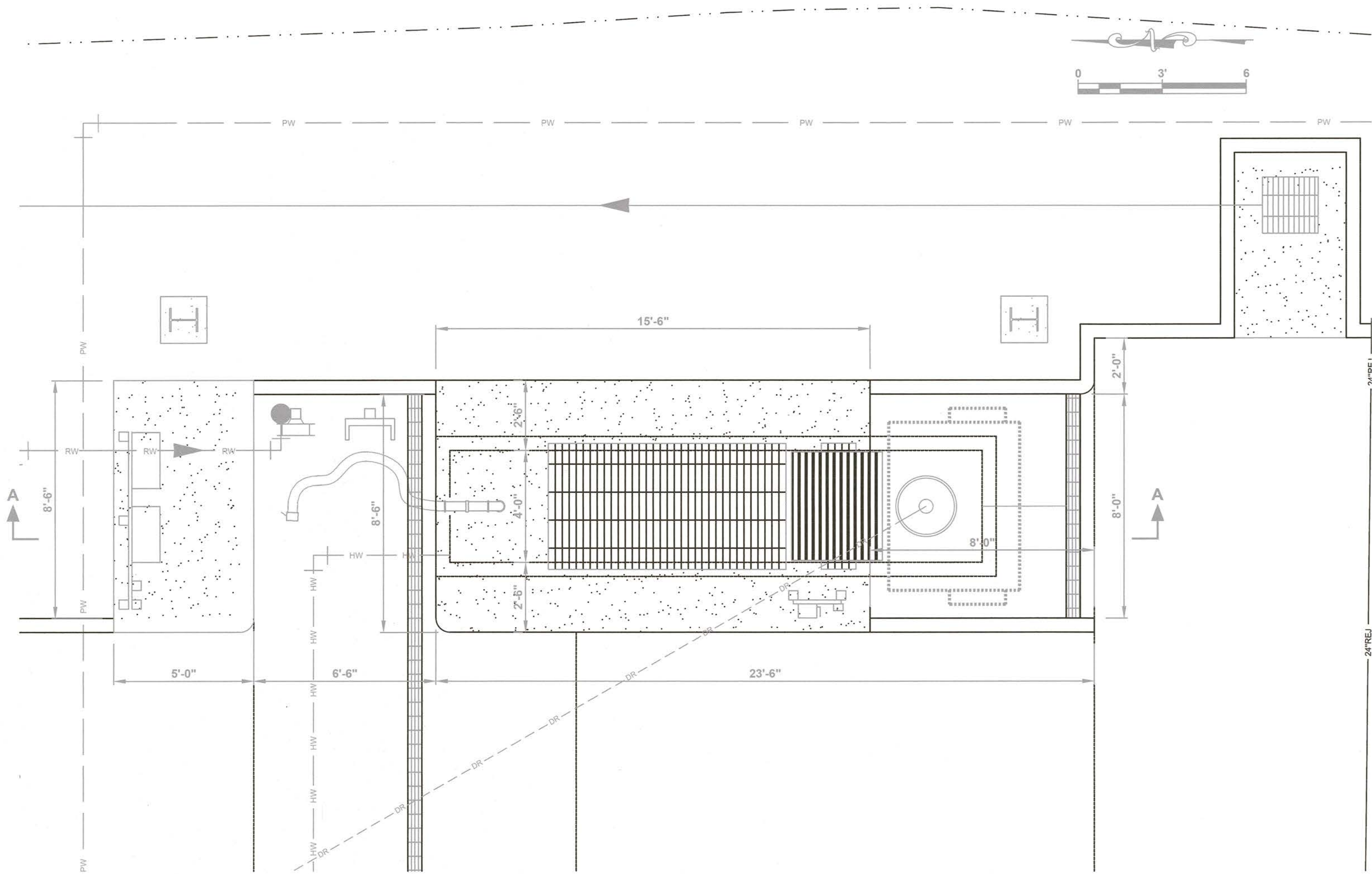




SEWRF SEPTAGE/ GREASE RECEIVING STATION				MANATEE COUNTY DEPARTMENT OF PUBLIC WORKS UTILITIES DEPARTMENT 4410 66th Street West Bradenton, Florida 34210 (941) 792-8811		 Cardno Shaping the Future CLEARWATER 380 PARK PLACE BLVD, STE 300, CLEARWATER, FL 33759 TEL: (727) 531-3005 (800) 861-8314 www.cardno.com Certificate of Authorization No. 29915		DESIGNED <u>DOC</u> DRAWN <u>ALS</u> Q.C. APPROVED _____ DATE _____		AS-BUILT YARD PIPING (2)		PROJECT NO: 00193-009-02 DATE: MARCH 2015 SHEET NO: M-4																			
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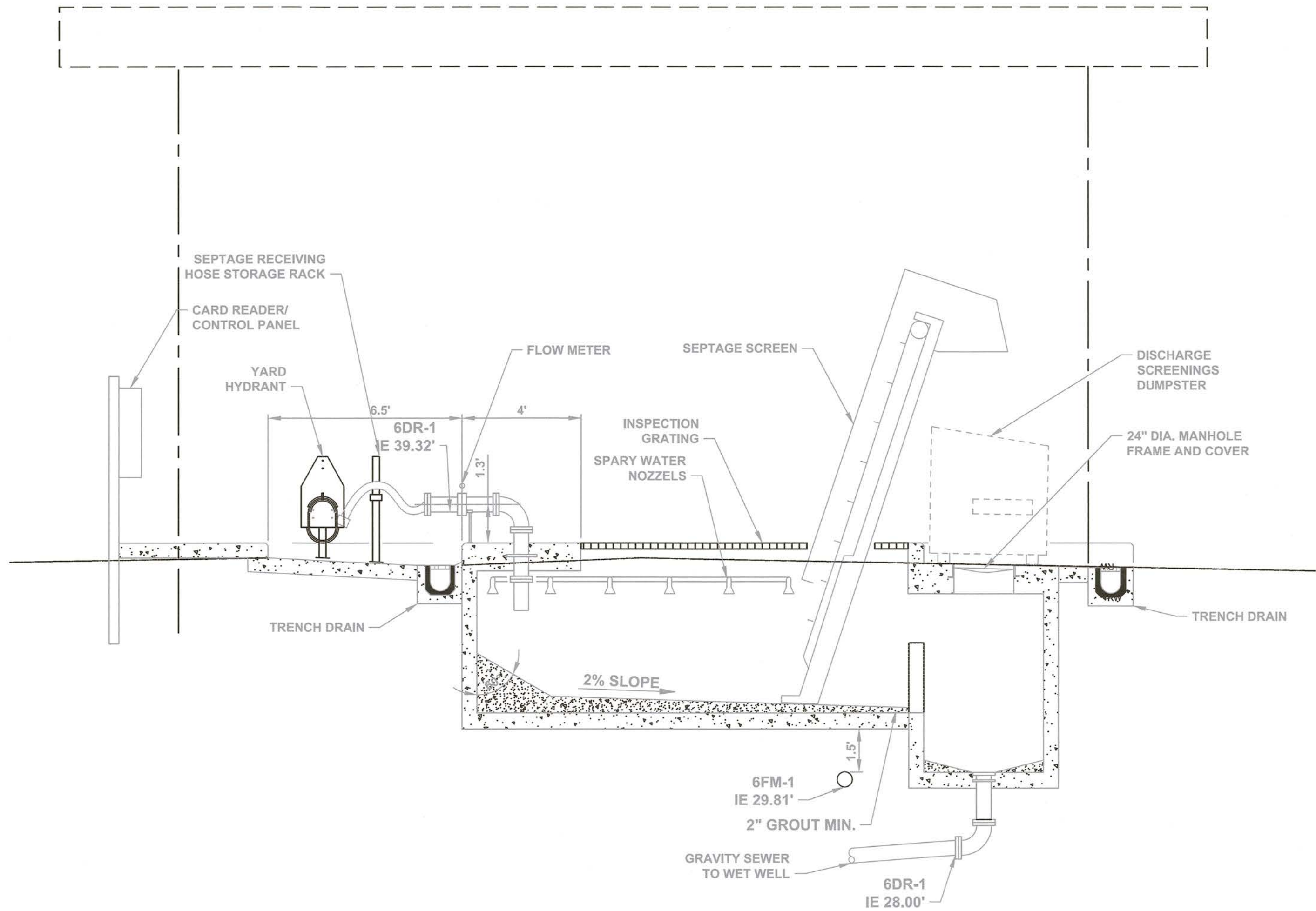
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1 PLAN VIEW
C-3 SCALE AS SHOWN

NOTE:
1. WESTERLY SEPTAGE RECEIVING STATION SIMILAR.



SECTION A-A
NOTE:
1. WESTERLY SEPTAGE RECEIVING STATION SIMILAR. NTS

NO.	DESCRIPTION	BY	DATE

**SEWRF
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RECEIVING STATION**

MANATEE COUNTY
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UTILITIES DEPARTMENT
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(941) 792-8811

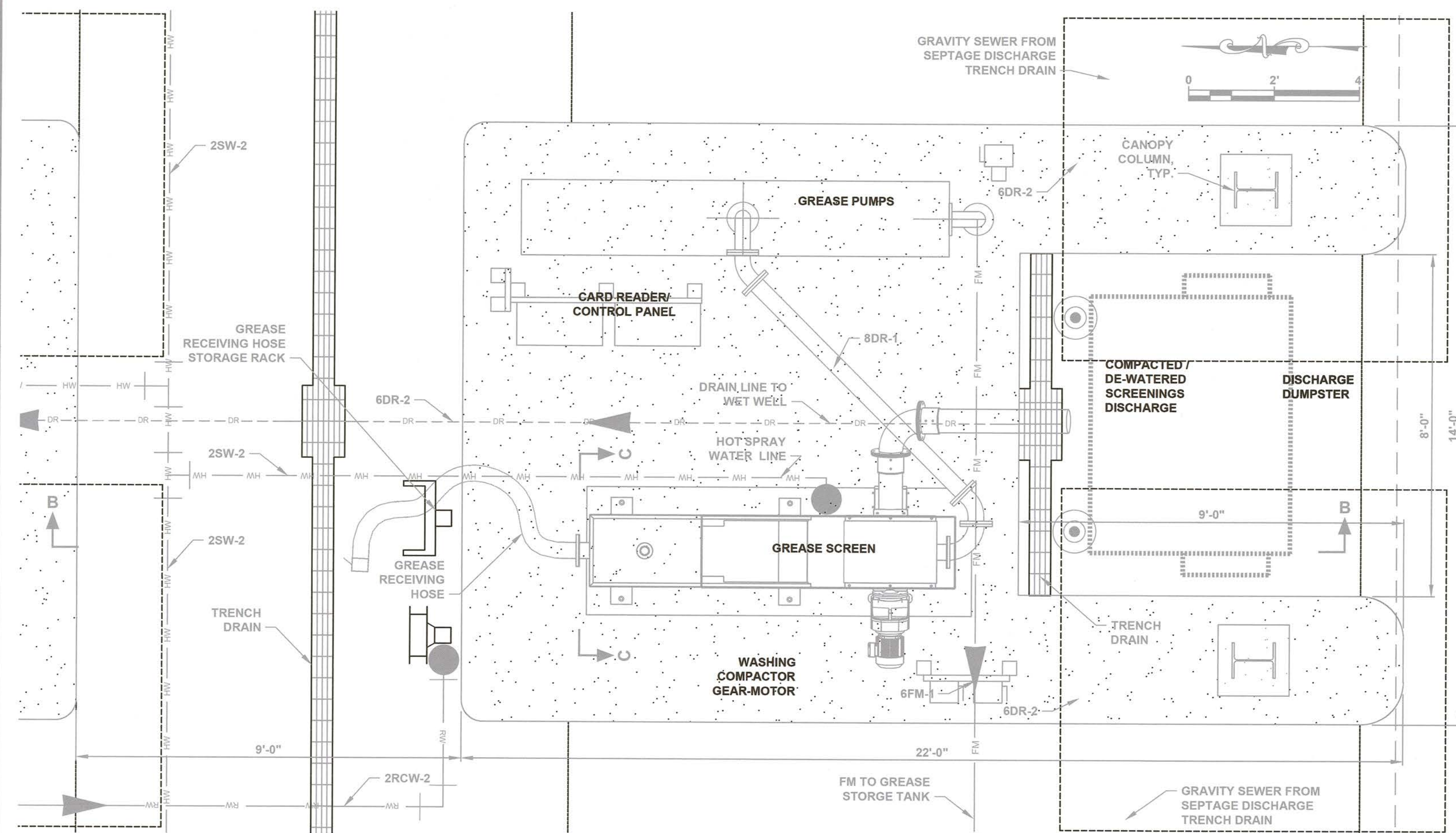
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DAVID A. O'CONNOR, PE DATE
LIC. NO.: 55803

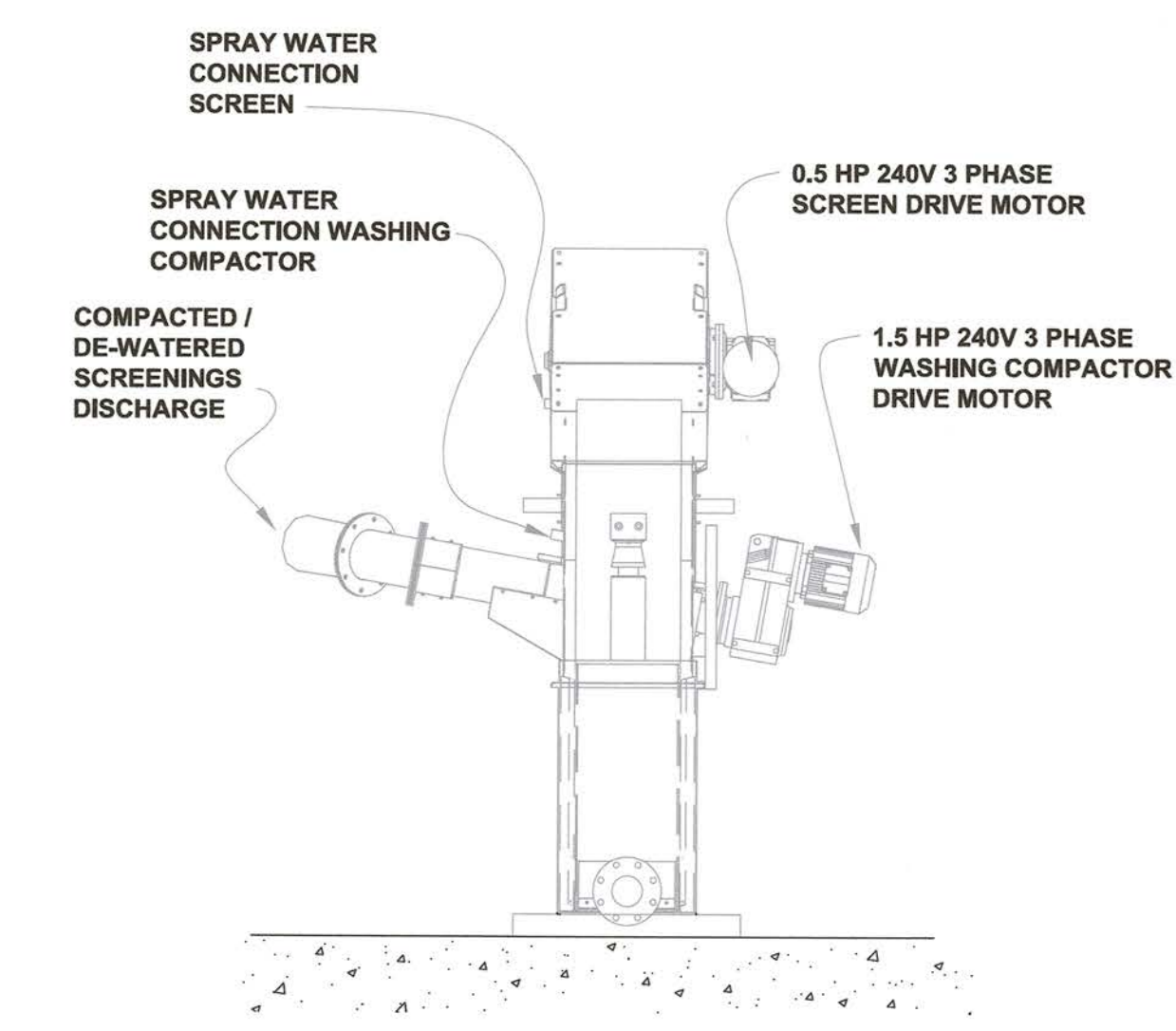
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Q.C.	
APPROVED	

AS-BUILT
**SEPTAGE RECEIVING STATION
PLAN AND SECTION**

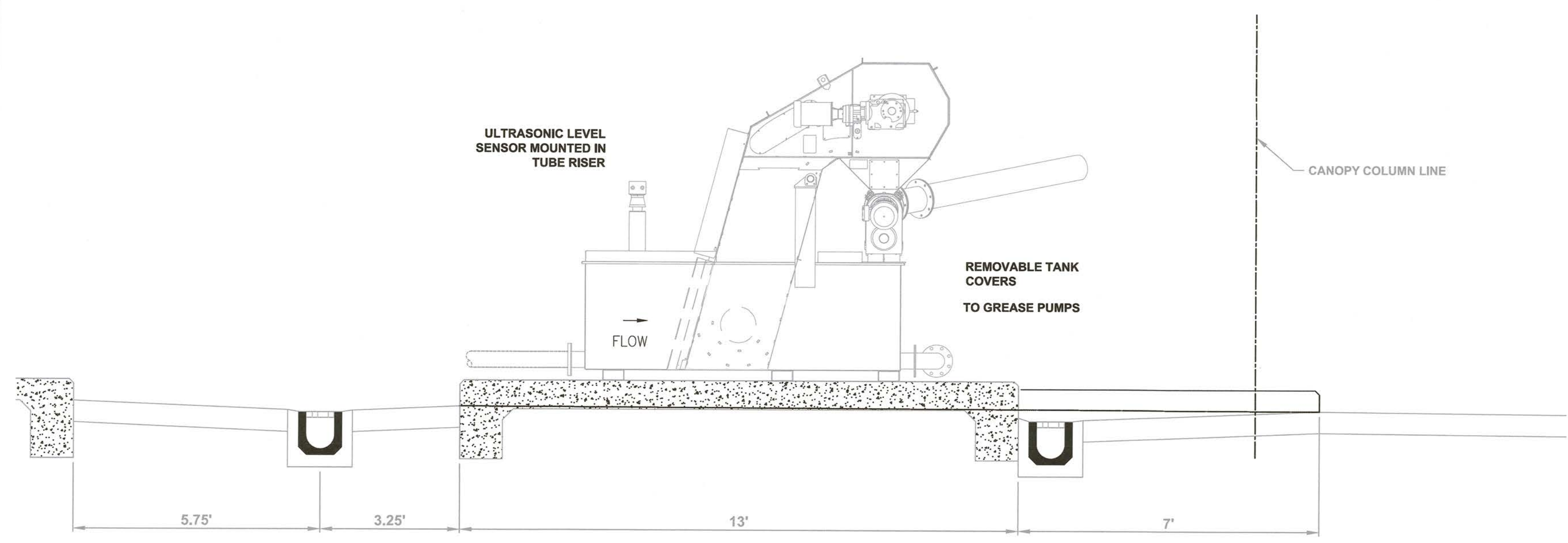
PROJECT NO:	00193-009-02
DATE:	MARCH 2015
SHEET NO:	M-6



1 PLAN VIEW
C-3 SCALE AS SHOWN

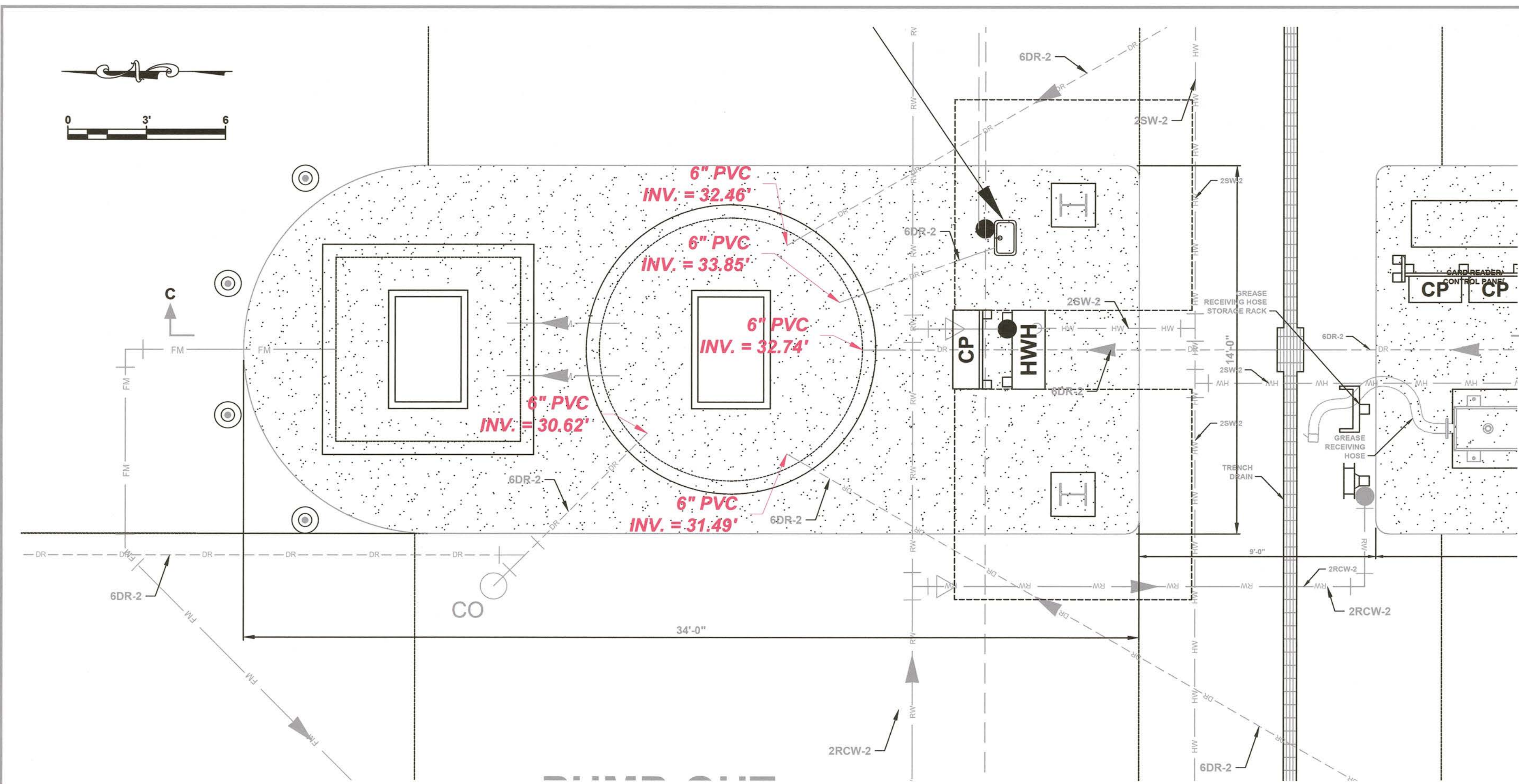


SECTION C-C
NTS

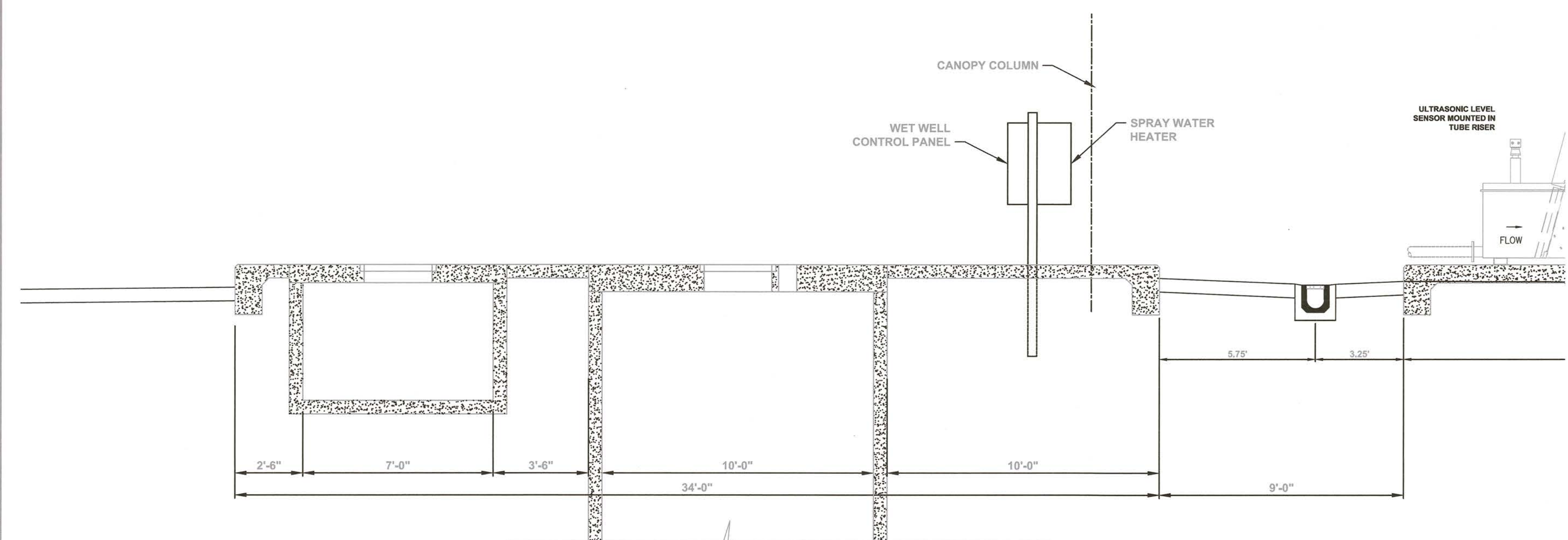


SECTION B-B
NTS

				SEWRF SEPTAGE/ GREASE RECEIVING STATION		MANATEE COUNTY DEPARTMENT OF PUBLIC WORKS UTILITIES DEPARTMENT 4410 66th Street West Bradenton, Florida 34210 (941) 792-8811	Cardno Shaping the Future CLEARWATER 380 PARK PLACE BLVD, STE 300, CLEARWATER, FL 33759 TEL: (727) 531-3505 (800) 861-8314 www.cardno.com Certificate of Authorization No. 29915	DAVID A. O'CONNOR, PE LIC. NO.: 56803	DESIGNED DRAWN Q.C. APPROVED	AS-BUILT GREASE RECEIVING STATION PLAN AND SECTION	PROJECT NO: 00193-009-02 DATE: MARCH 2015 SHEET NO: M-7
NO.	DESCRIPTION	BY	DATE								



1 PLAN VIEW
C-3 SCALE AS SHOWN



SECTION C-C
NTS

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RECEIVING STATION

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UTILITIES DEPARTMENT
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(941) 792-8811

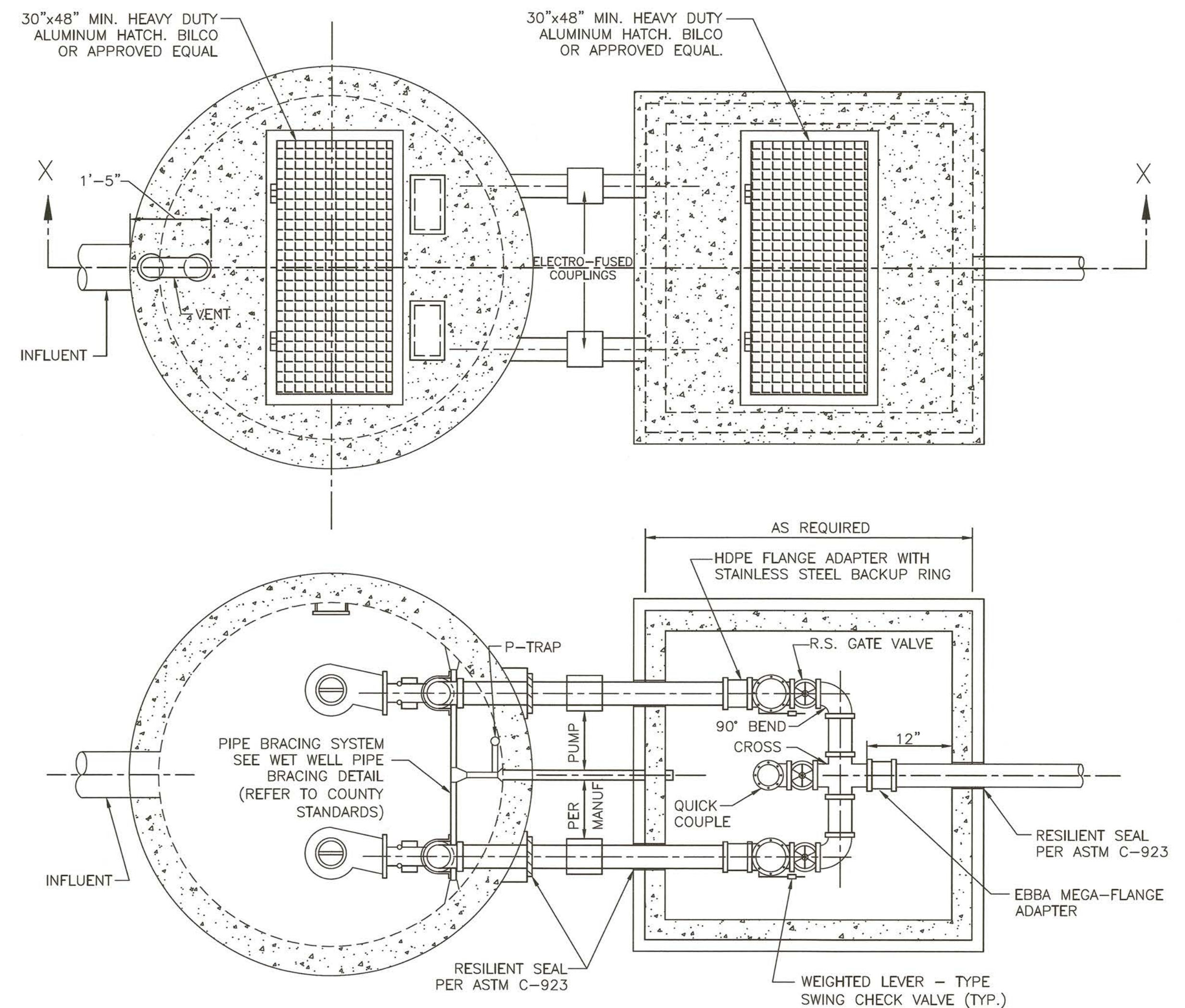
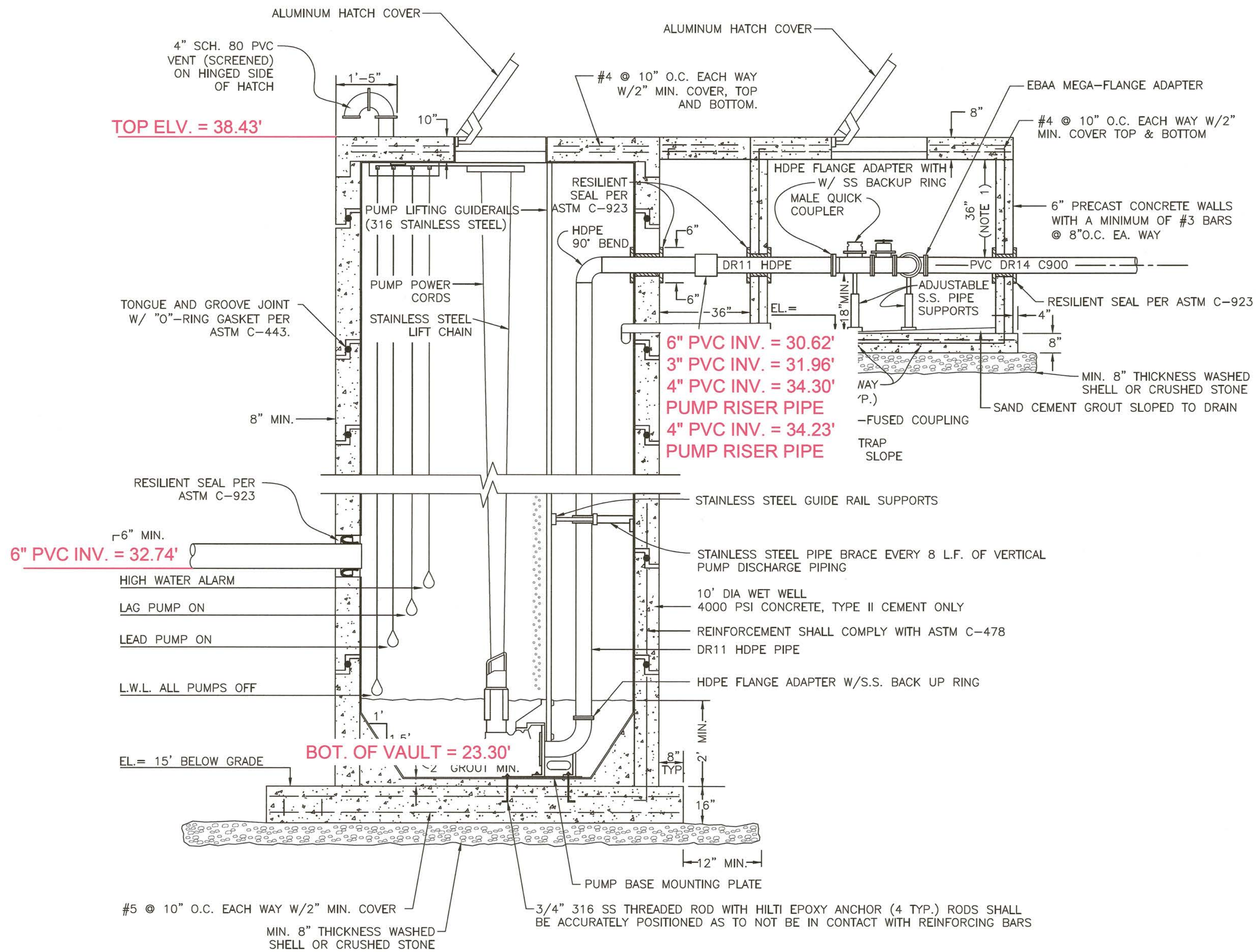
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DAVID A. O'CONNOR, PE
LIC. NO.: 56803
DATE

DESIGNED	DOC
DRAWN	ALS
Q.C.	
APPROVED	

AS-BUILT
WET WELL AND VALVE VAULT
PLAN AND SECTION

PROJECT NO:
00193-009-02
DATE:
MARCH 2015
SHEET NO:
M-8



1 PUMPING STATION DETAIL

NOTE: SEE PLAN SHEETS FOR ORIENTATION.

NO.	DESCRIPTION	BY	DATE

SEWRF SEPTAGE/ GREASE RECEIVING STATION

MANATEE COUNTY
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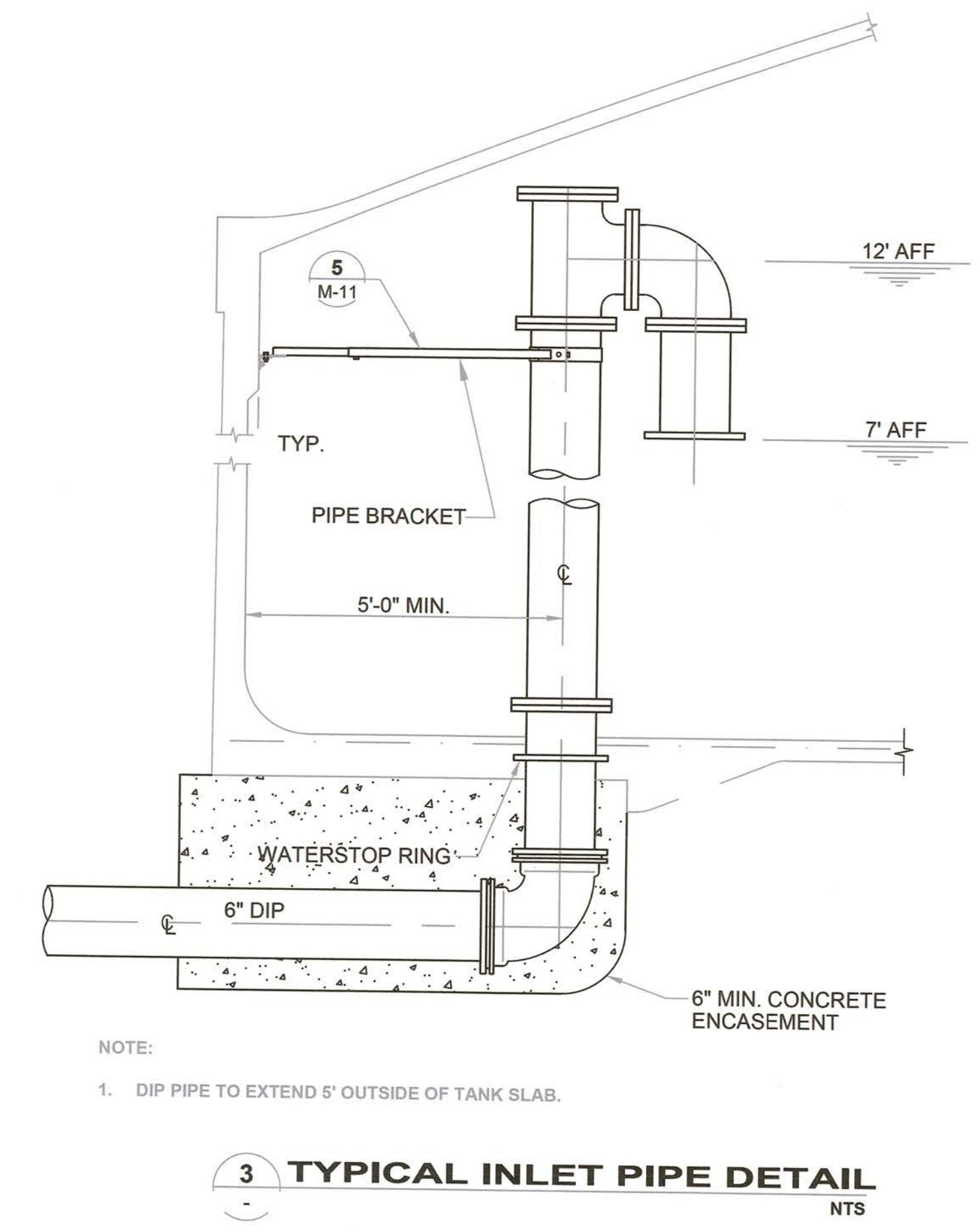
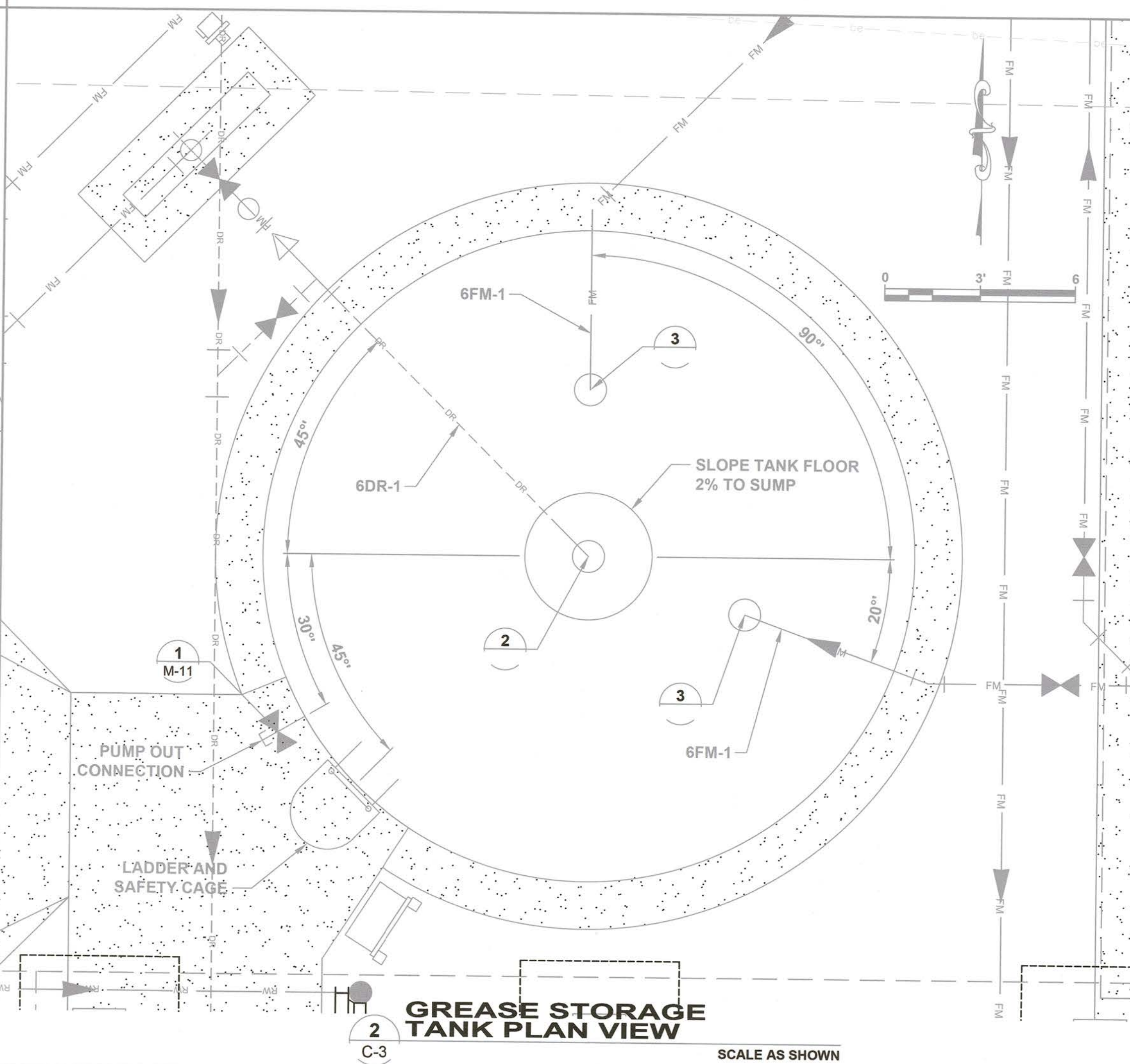
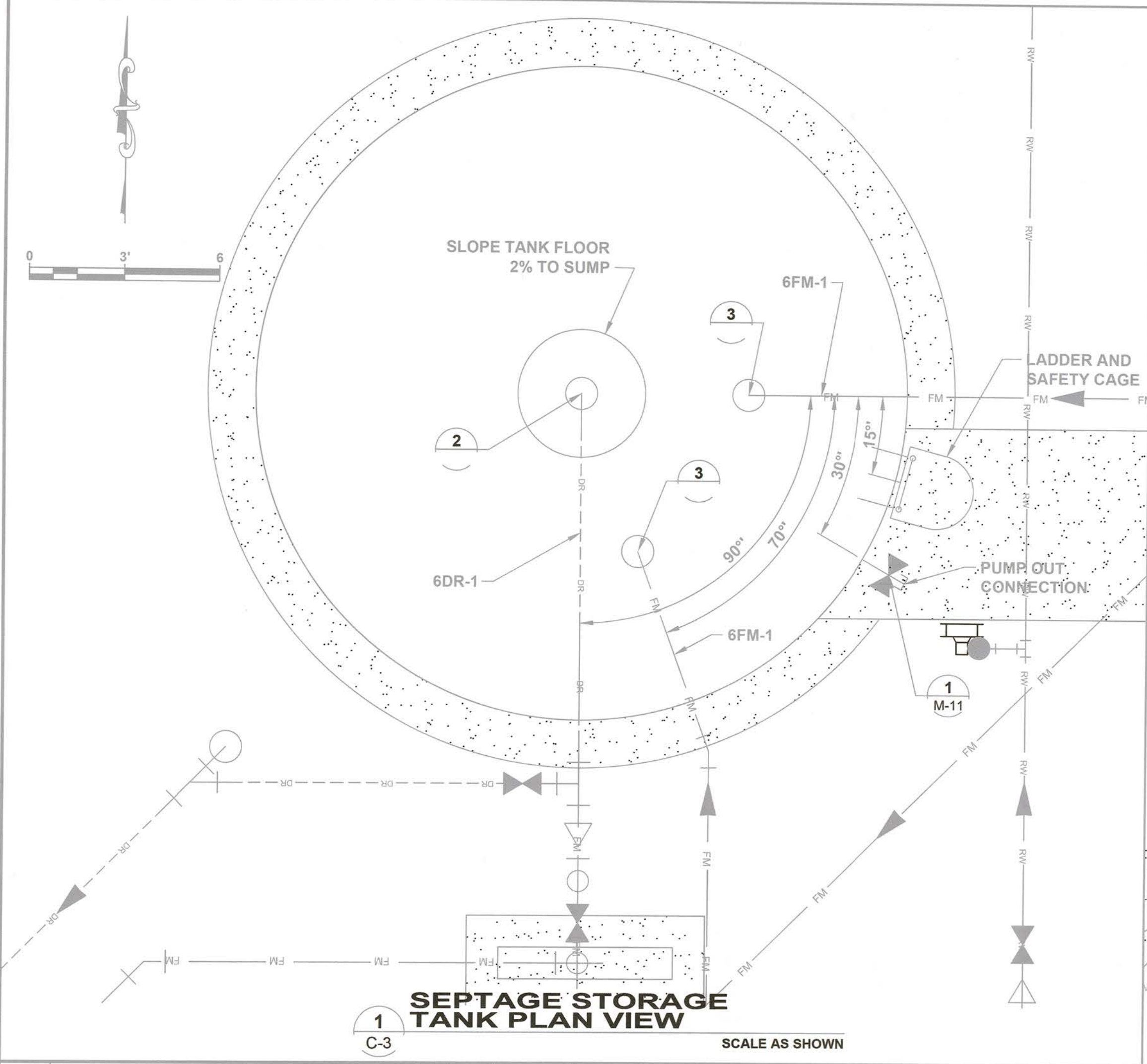
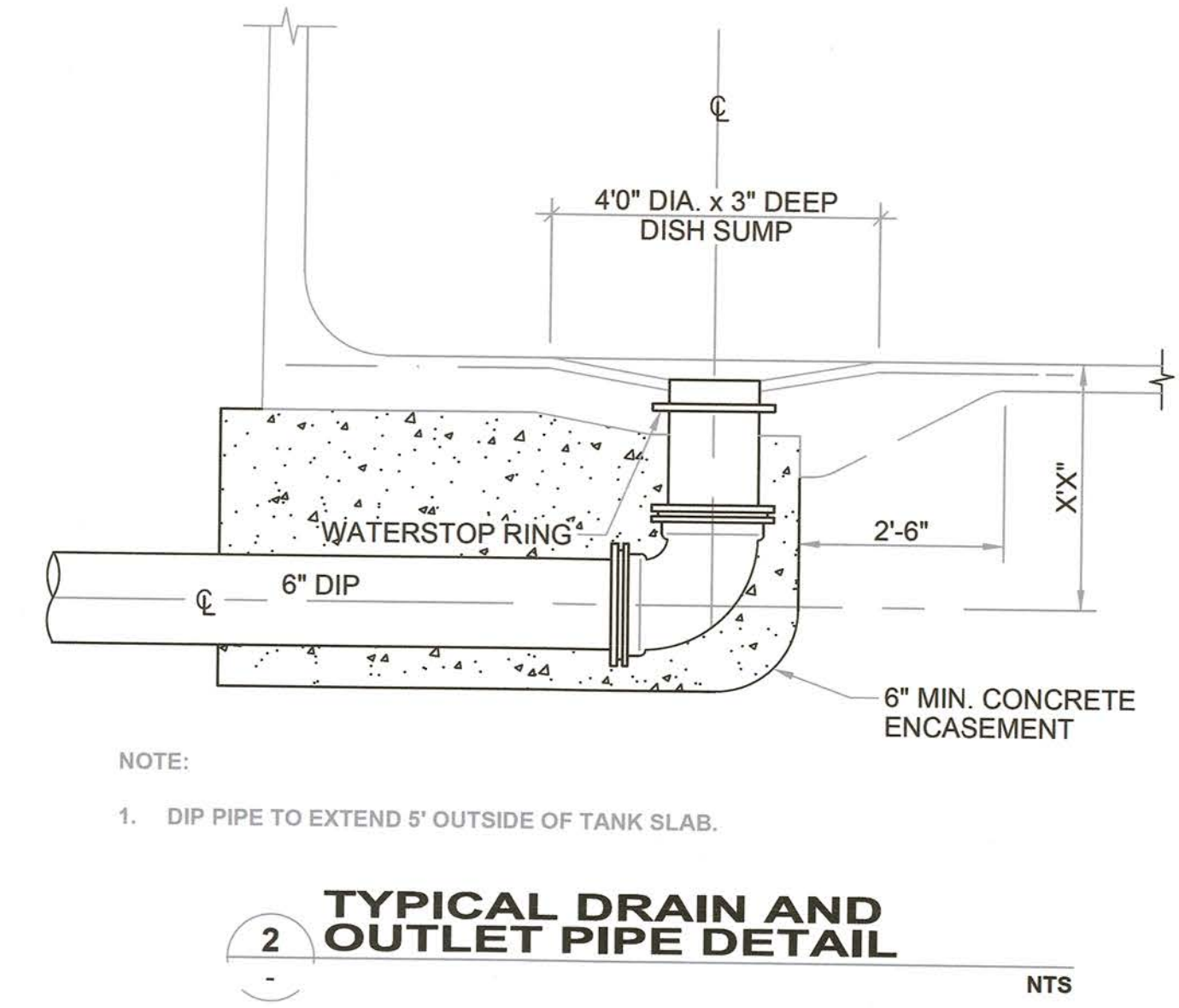
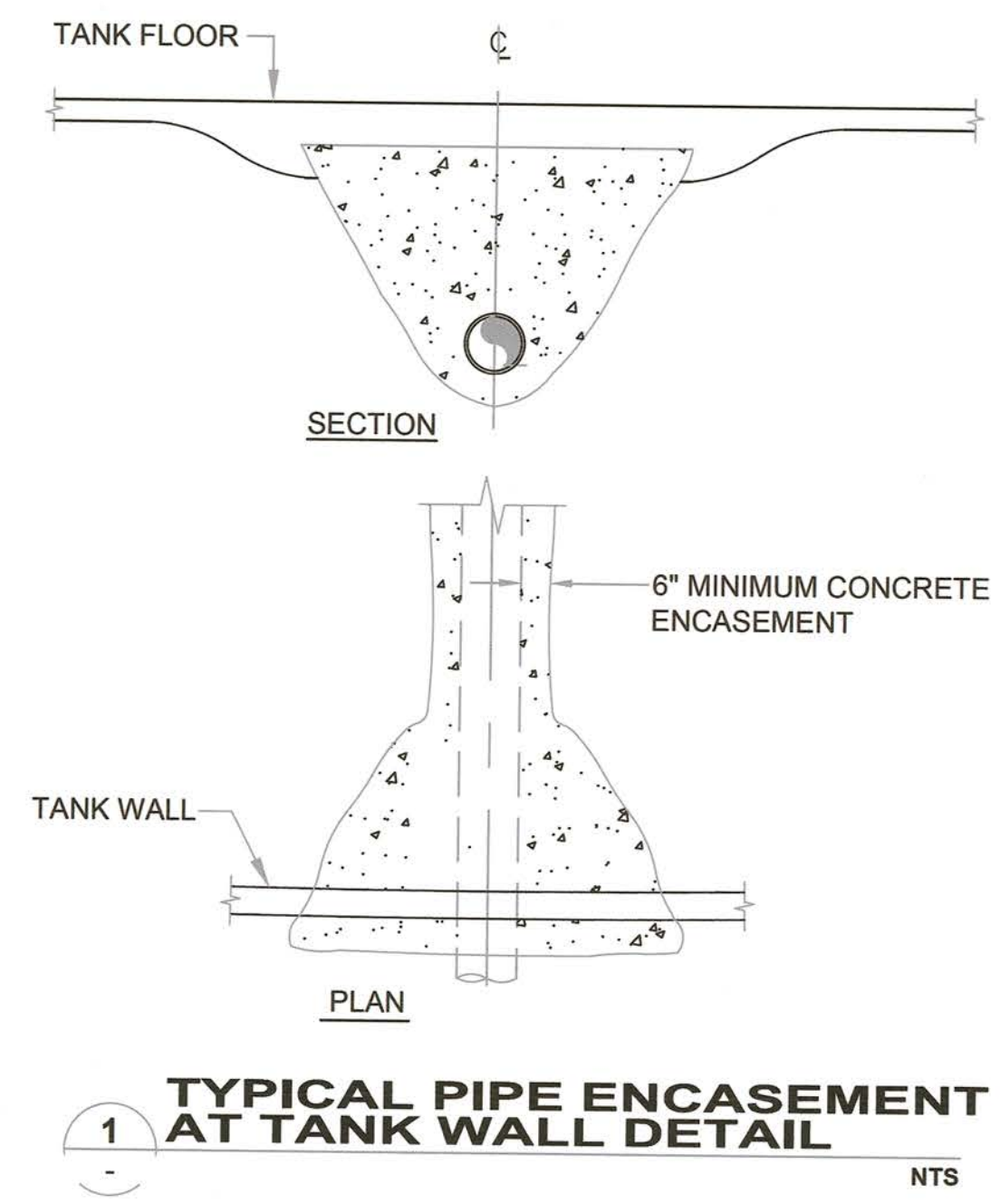
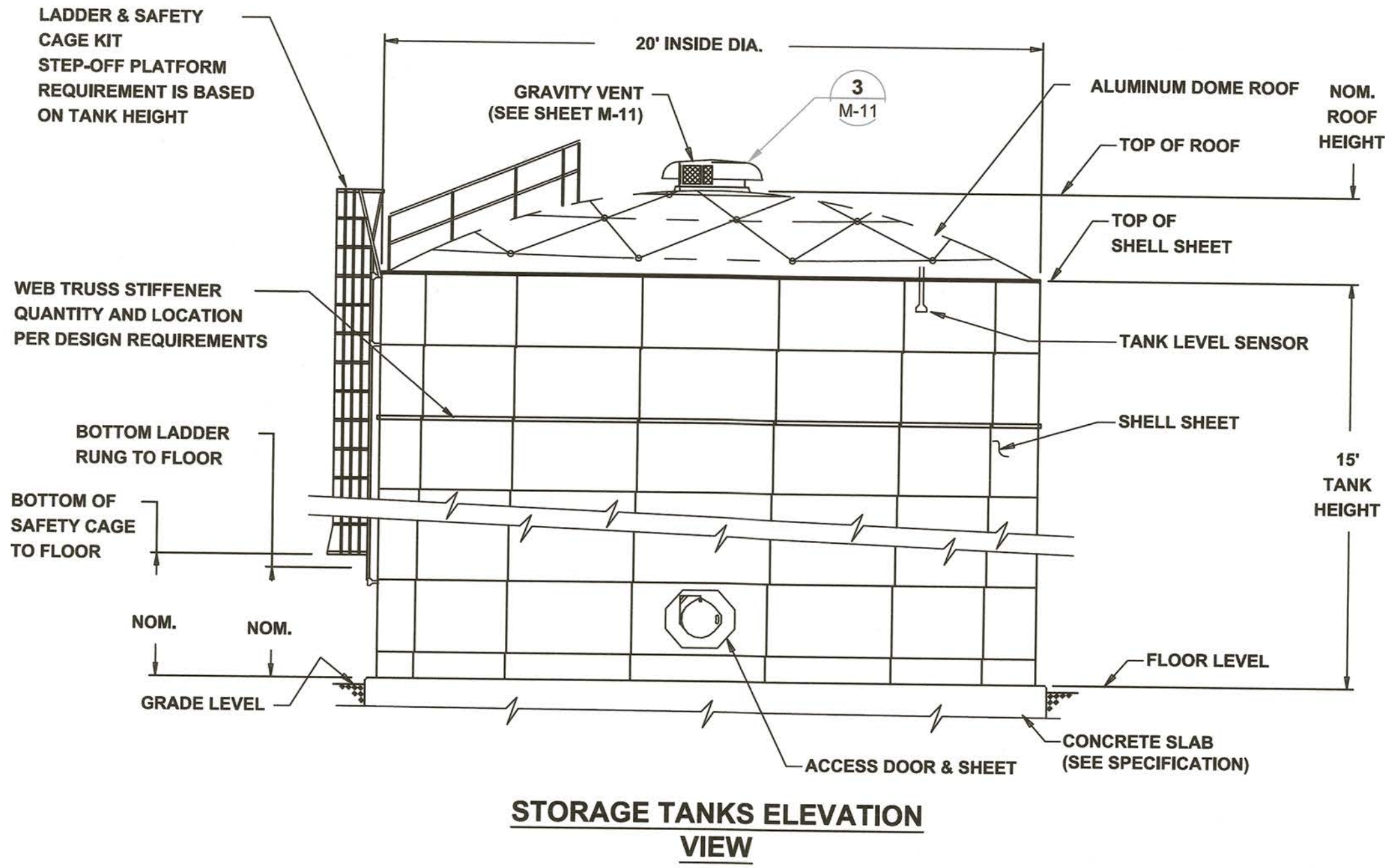
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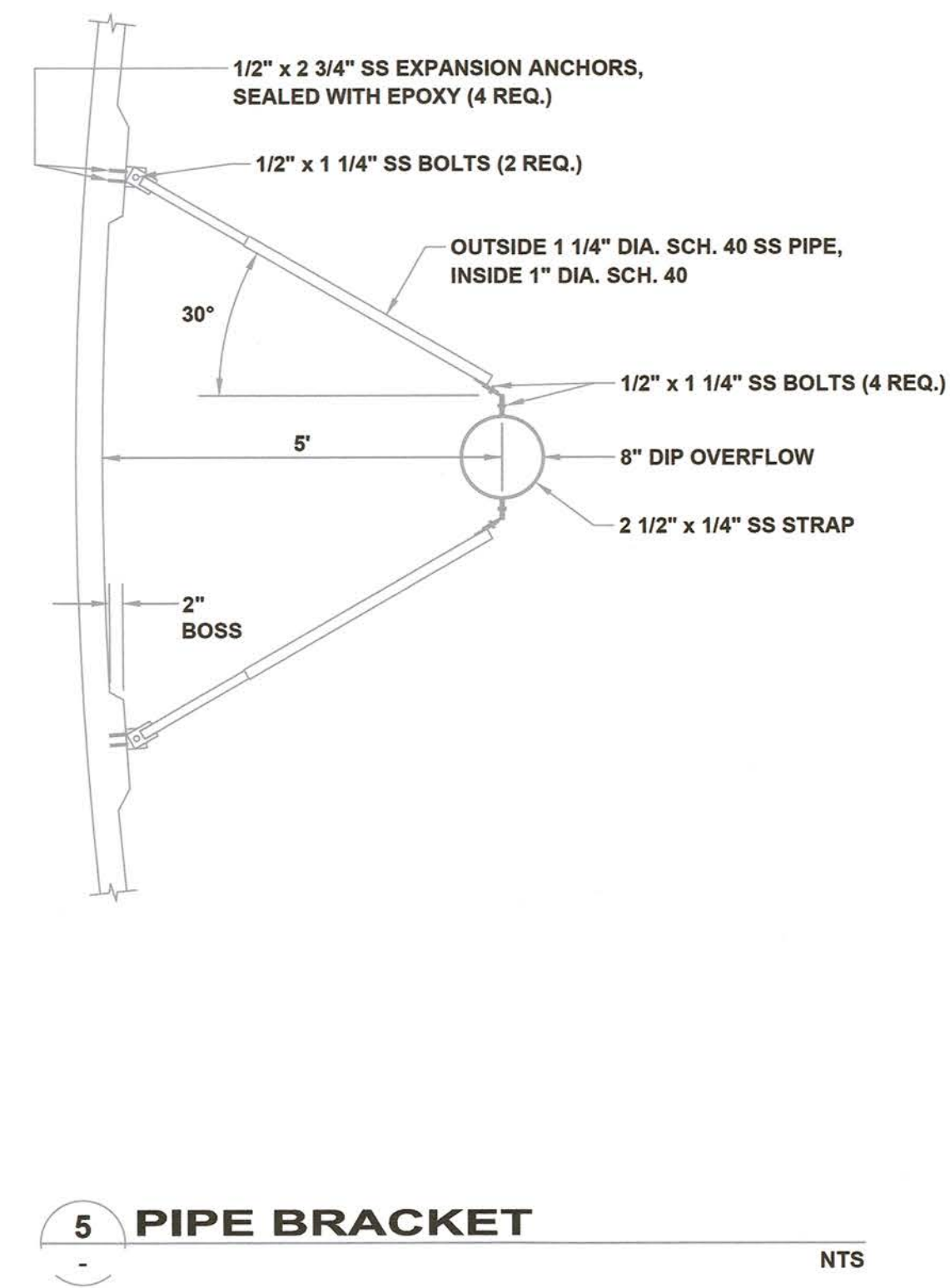
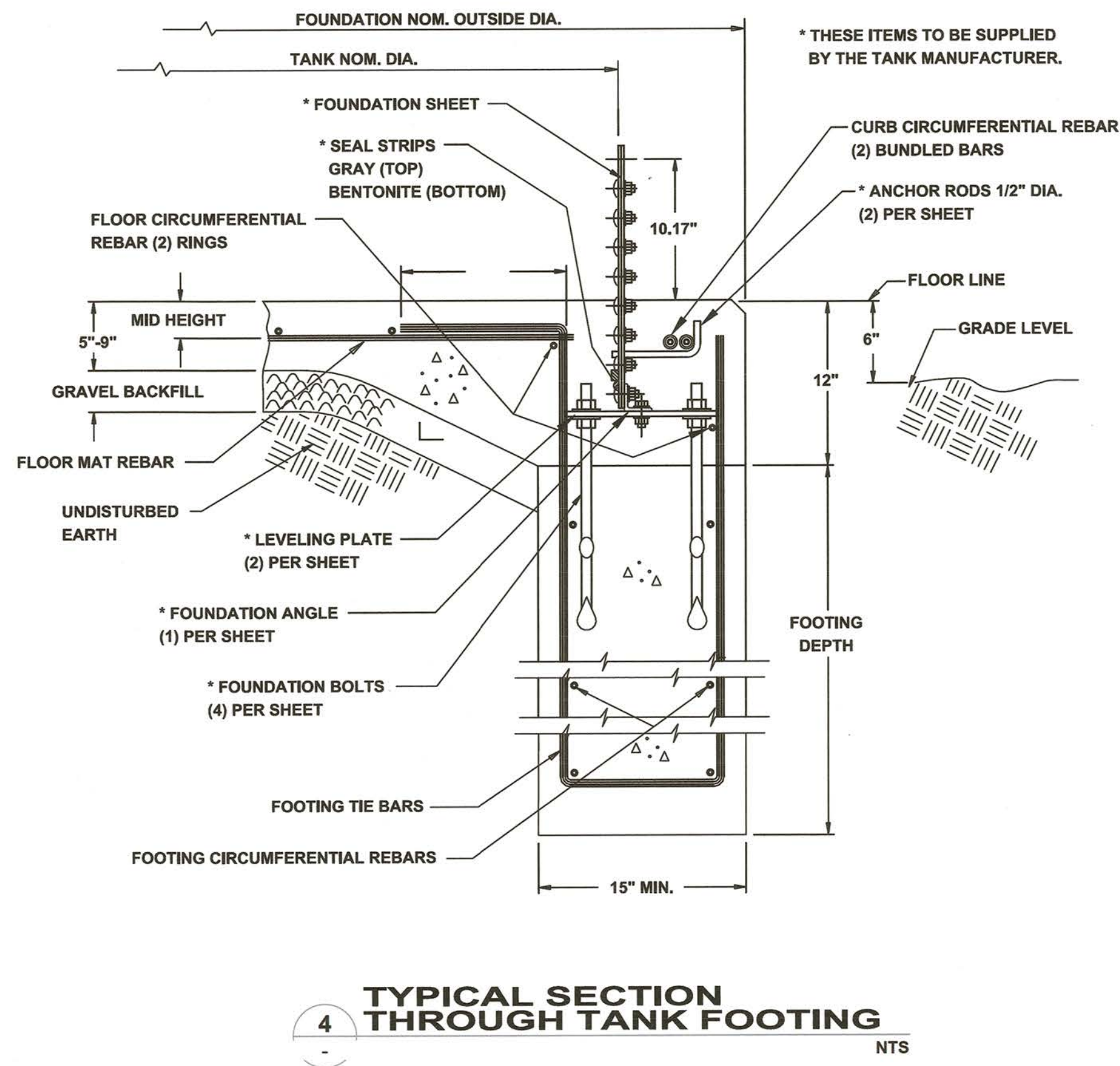
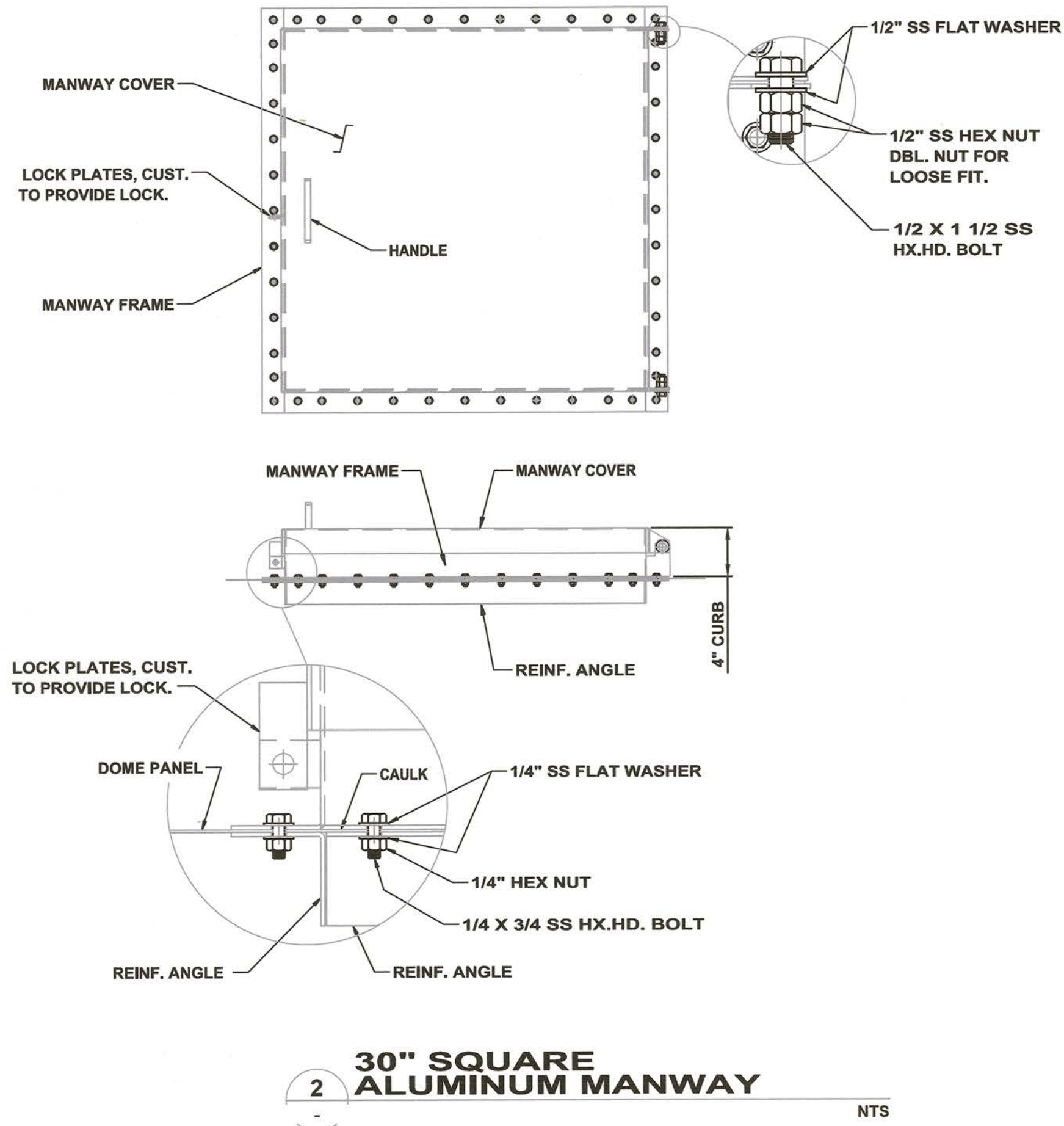
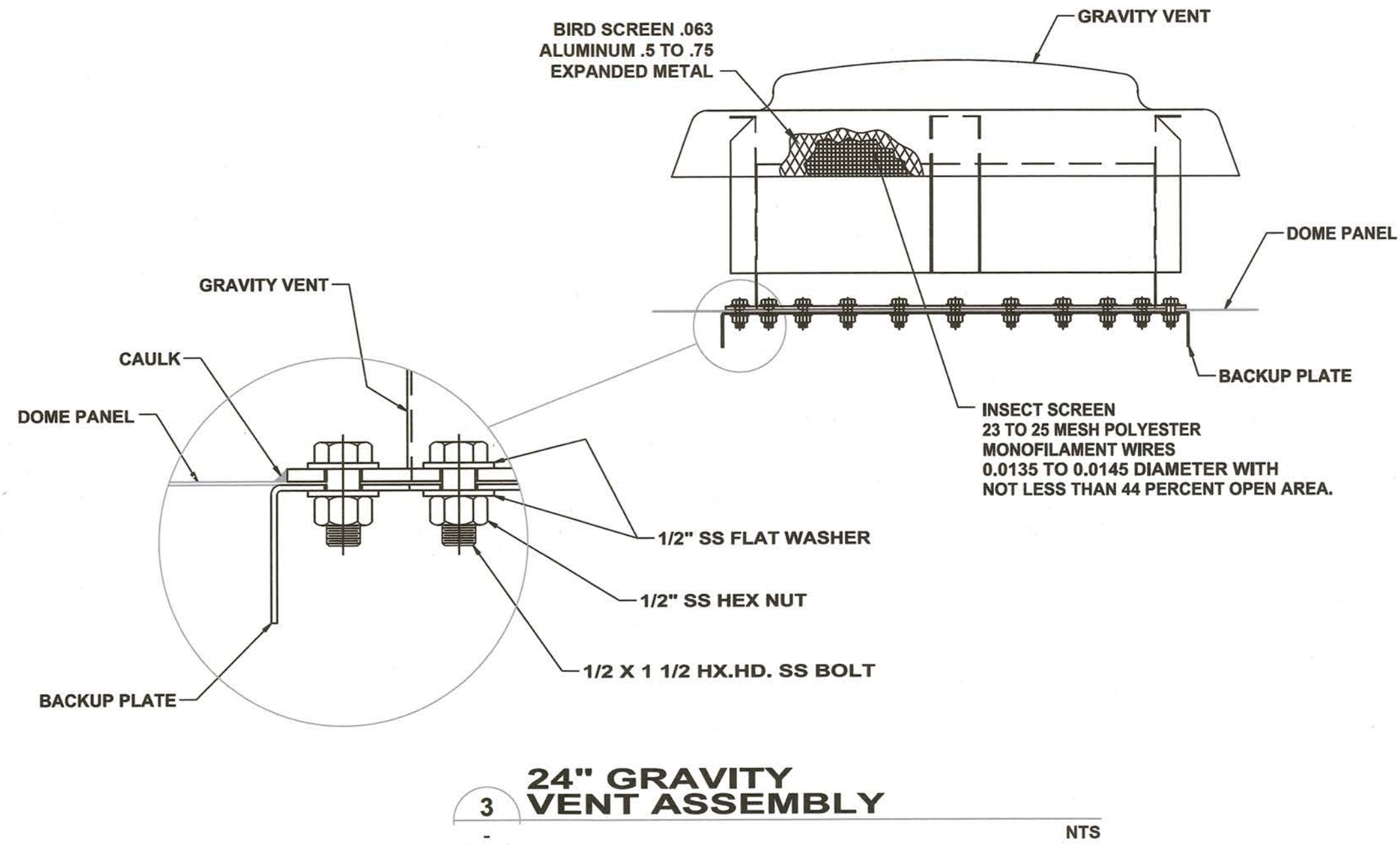
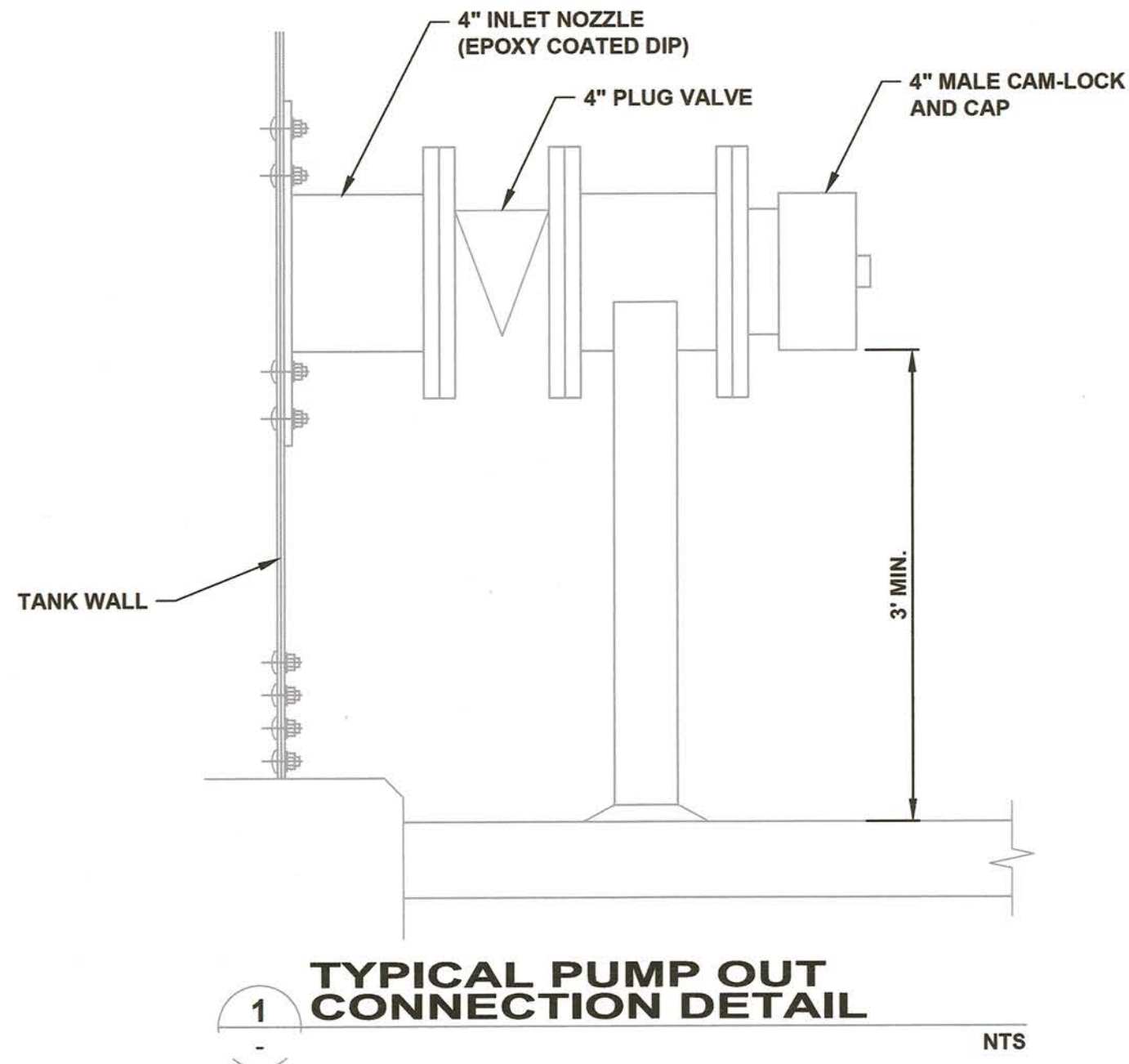
DAVID A. O'CONNOR, PE
 LIC. NO.: 56803

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 DRAWN
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 APPROVED

AS-BUILT PUMP STATION DETAILS

PROJECT NO:
 00193-009-02
 DATE:
 MARCH 2015
 SHEET NO:
M-9





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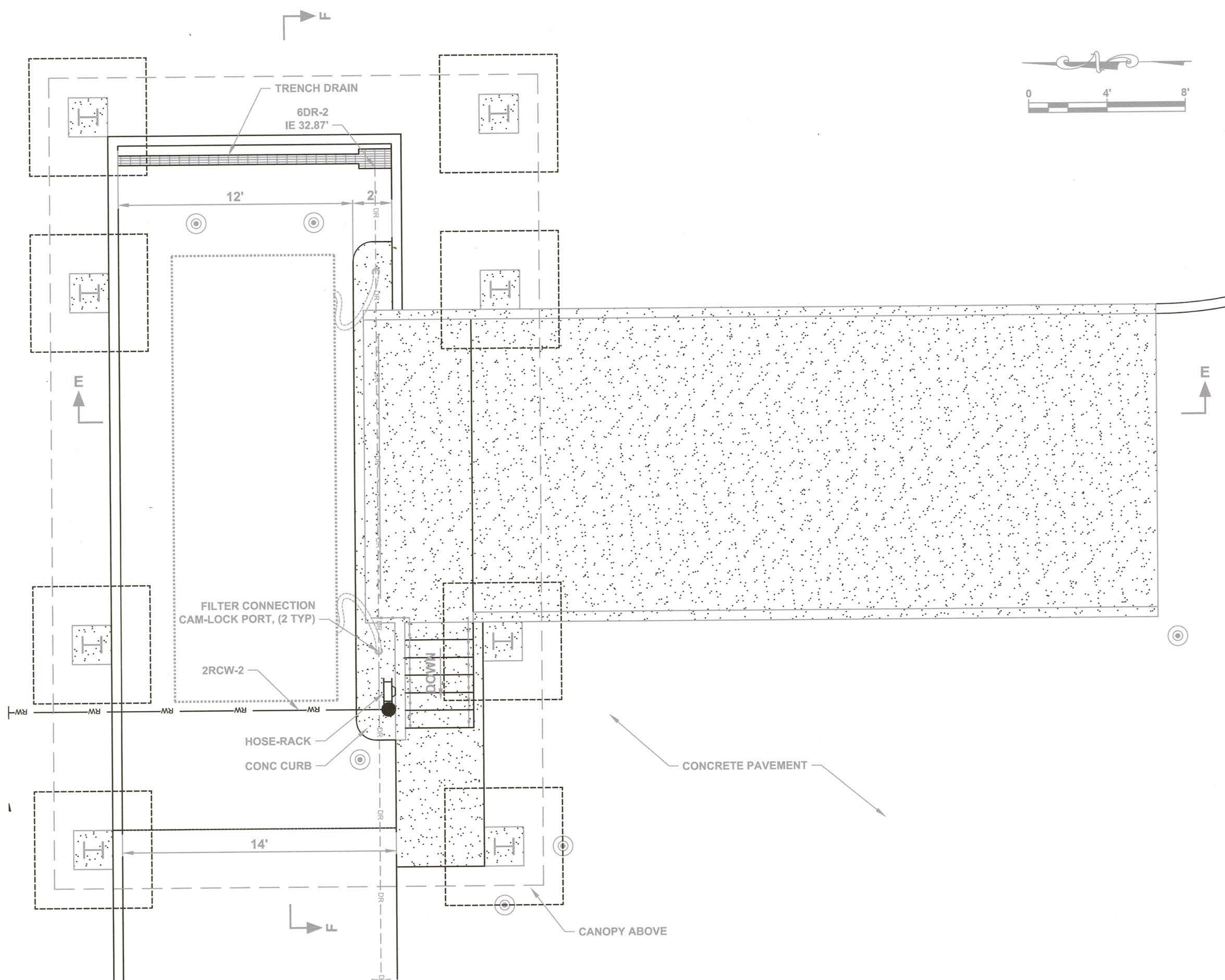
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DAVID A. O'CONNOR, PE DATE
LIC. NO.: 58803

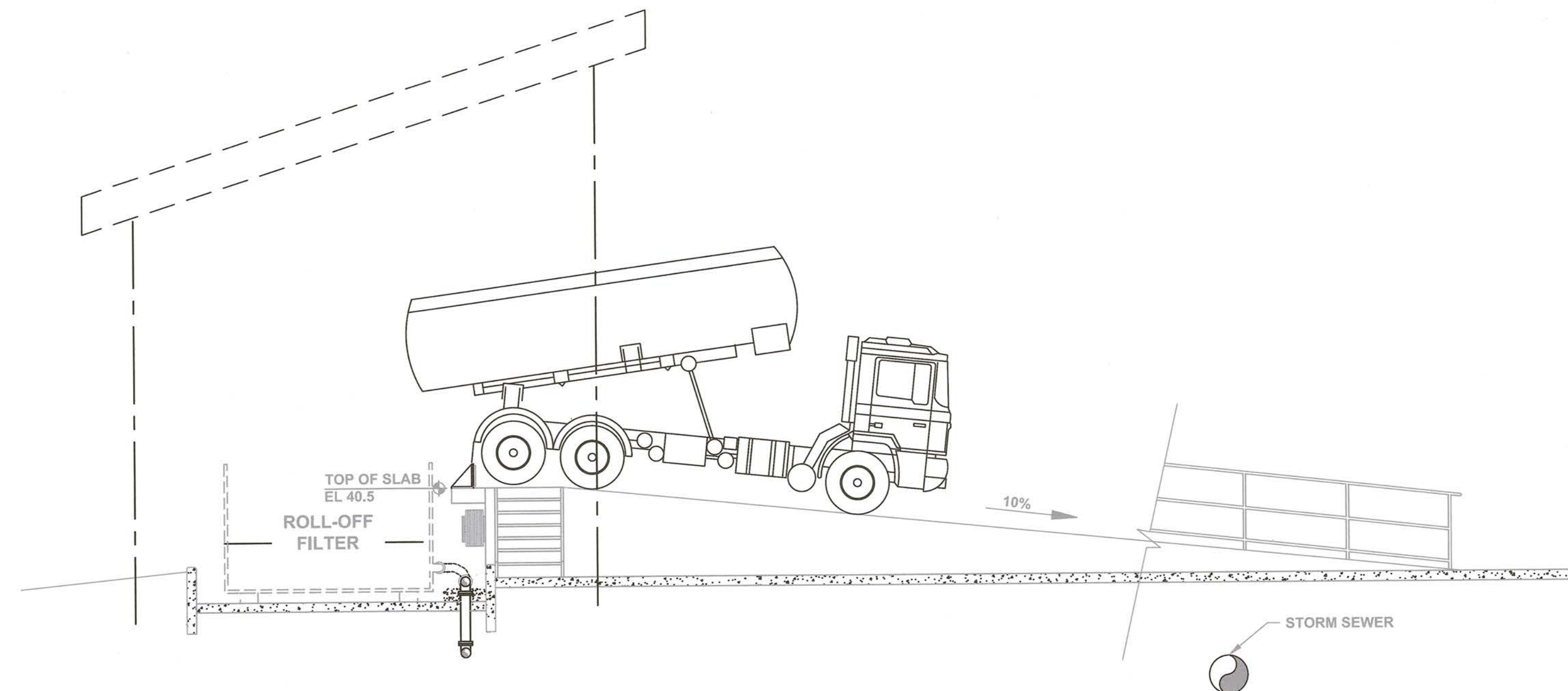
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DRAWN ALS
Q.C.
APPROVED

AS-BUILT
STORAGE TANK DETAILS

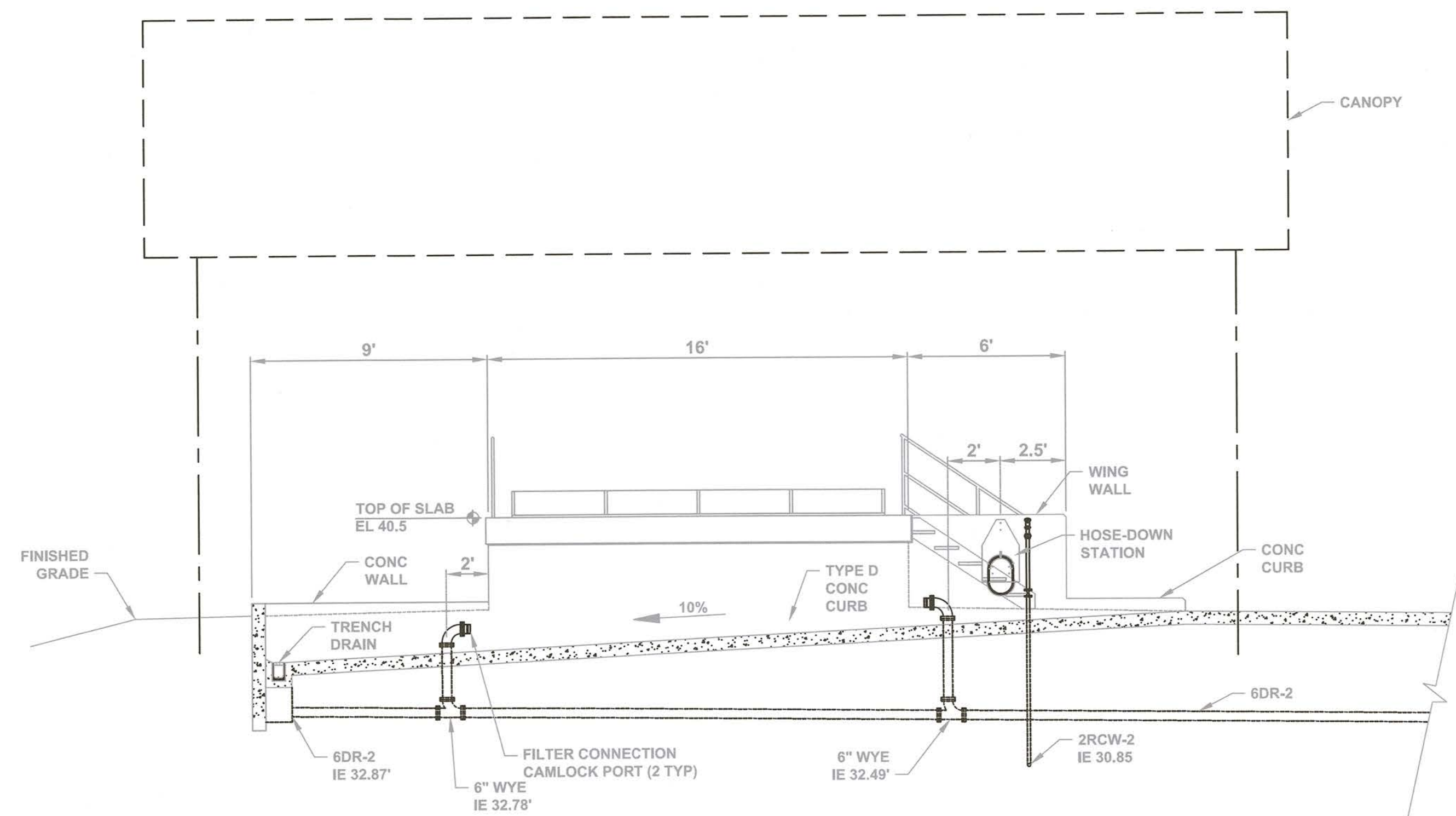
PROJECT NO:
00193-009-02
DATE:
MARCH 2015
SHEET NO:
M-11



1 PLAN VIEW
C-3 SCALE AS SHOWN



SECTION E-E
NTS



SECTION F-F
NTS

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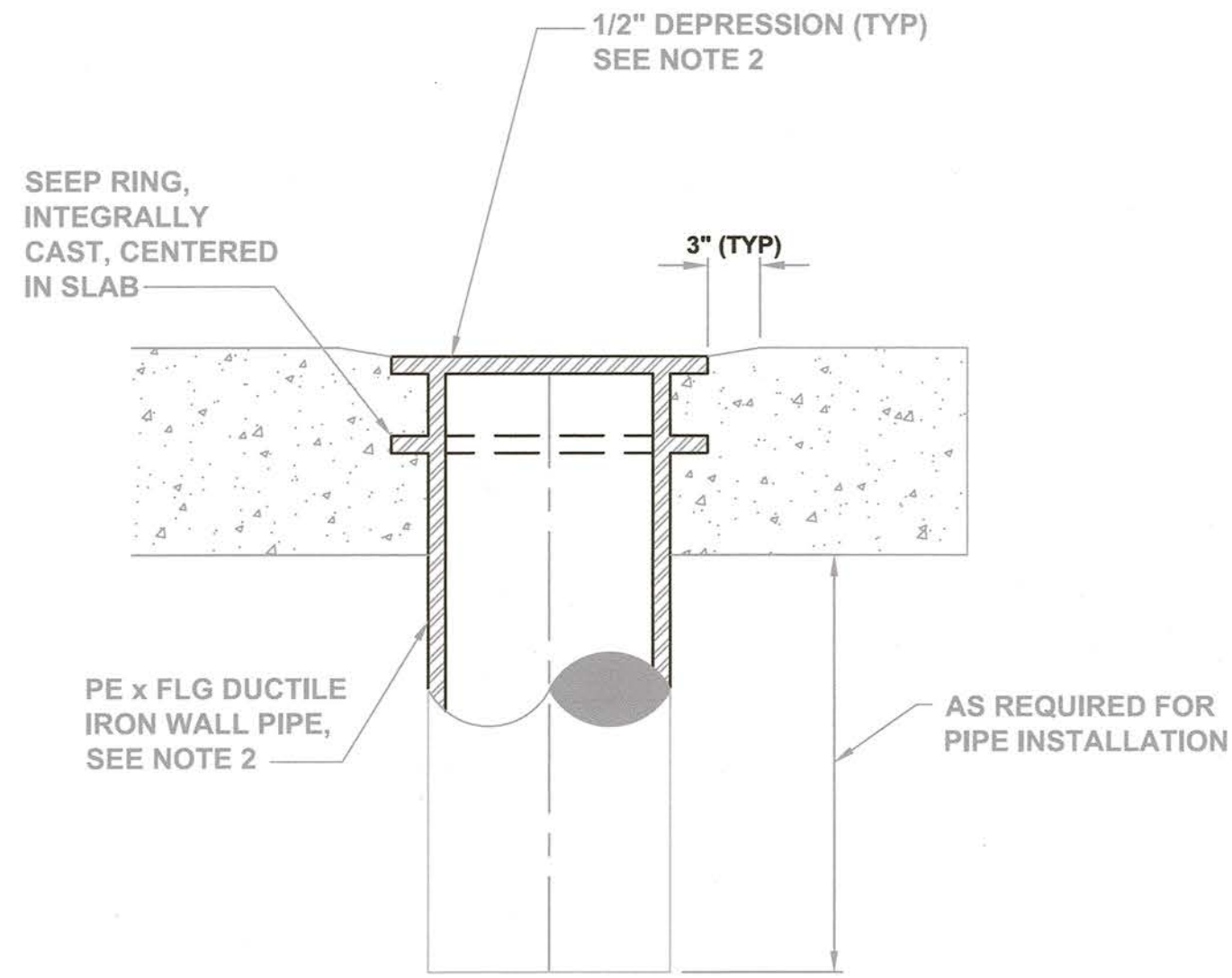
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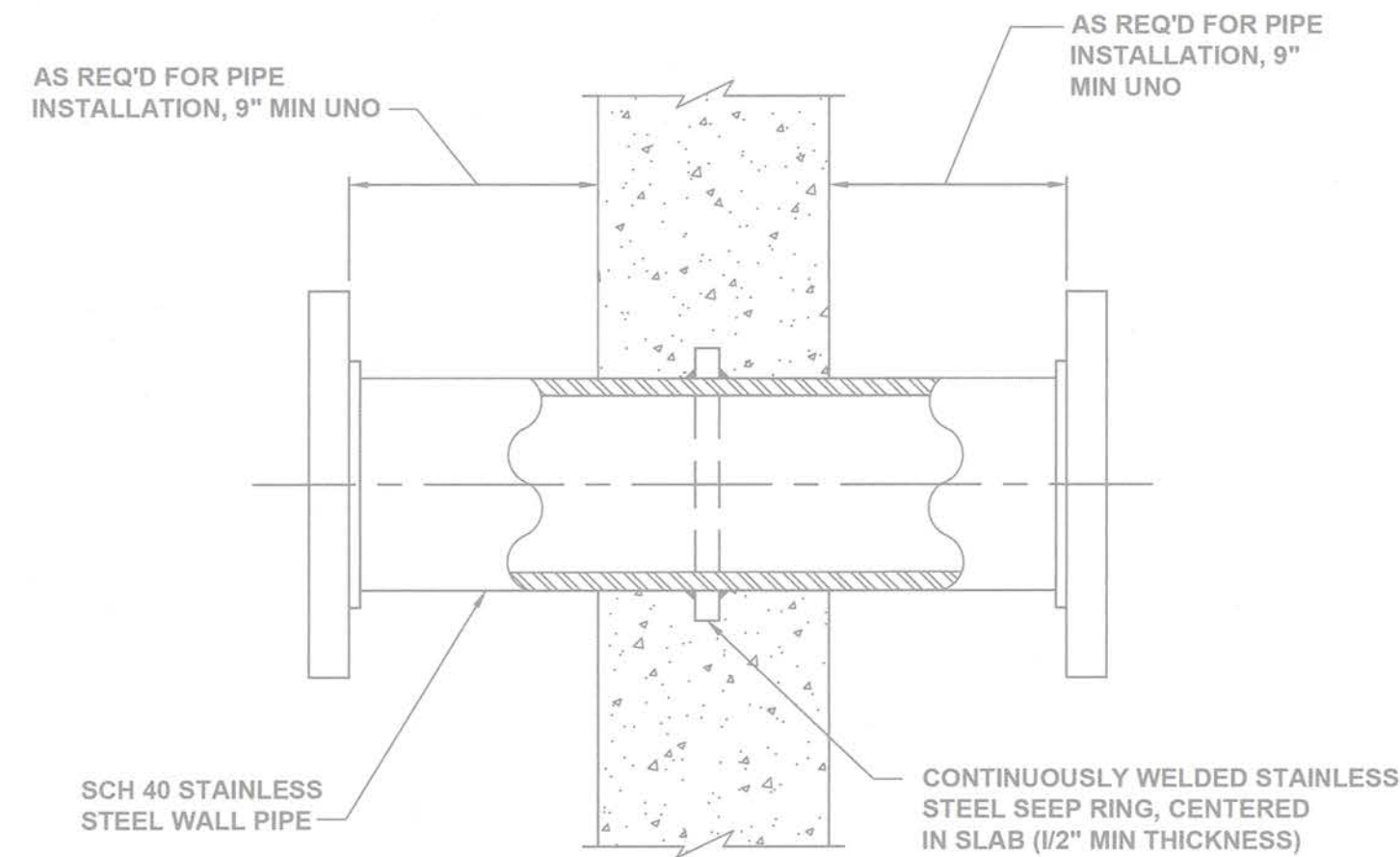
AS-BUILT
VACUUM TRUCK RECEIVING RAMP
PLAN AND SECTIONS

PROJECT NO:
00193-009-02
DATE:
MARCH 2015
SHEET NO:
M-12



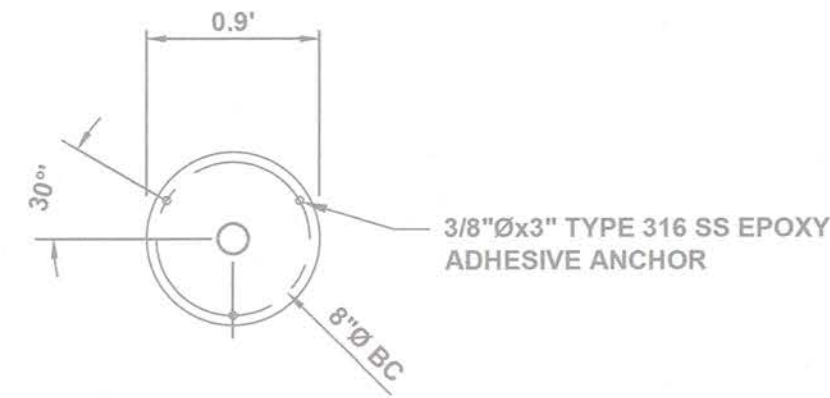
- NOTES:
1. COAT FLOOR PIPE WITH SPECIFIED PAINT SYSTEM PRIOR TO CONCRETE PLACEMENT.
 2. DRILL AND TAP FLANGE TO RECEIVE THREADED BOLTS.

1
TYPICAL FLOOR PIPES
(FLUSH MOUNTED) DETAIL
NTS

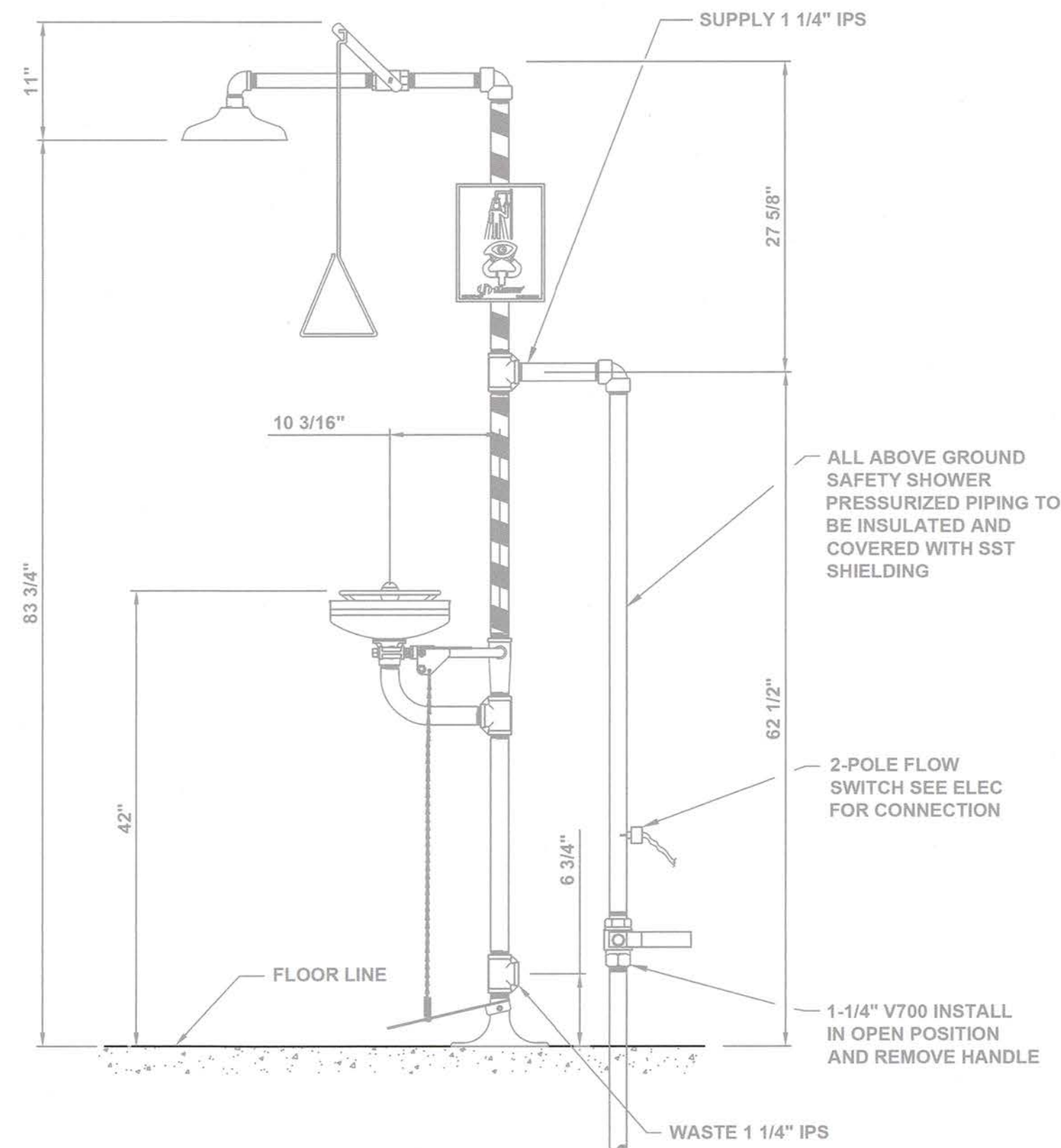


- NOTE:
1. COAT WALL PIPE WITH SPECIFIED PAINT SYSTEM PRIOR TO CONCRETE PLACEMENT.

2
TYPICAL STAINLESS
STEEL WALL PIPE DETAIL
NTS



MOUNTING DETAIL



- NOTES:
1. DIMENSIONS MAY VARY 1/2"±.
 2. SS-1 EMERGENCY SHOWER AND EYE WASH STATIONS SHALL BE HAWS MODEL 8336 (OR EQUAL). ALL ASSOCIATED PIPING SHALL BE SCH 80 PVC UNO.
 3. SS-2 EMERGENCY SHOWER AND EYE WASH STATIONS SHALL BE HAWS MODEL 8300CRP. ALL ASSOCIATED PIPING SHALL BE SCH 40 GS UNO.
 4. MOUNTING PER MANUFACTURER'S RECOMMENDATIONS.
 5. PROVIDE 3/4" THICK (NOMINAL) NON-SHRINK NON-METALLIC EPOXY GROUT AS NECESSARY TO PROVIDE LEVEL/ PLUMB INSTALLATION.

3
EMERGENCY SHOWER
AND EYEWASH DETAIL
NTS

NO.	DESCRIPTION	BY	DATE

SEWRF
SEPTAGE/ GREASE
RECEIVING STATION



MANATEE COUNTY
DEPARTMENT OF PUBLIC WORKS
UTILITIES DEPARTMENT
4410 66th Street West Bradenton, Florida 34210
(941) 792-8811



DAVID A. O'CONNOR, PE DATE
LIC. NO.: 56803

DESIGNED	DOC
DRAWN	ALS
Q.C.	
APPROVED	

AS-BUILT
MECHANICAL STANDARD DETAILS

PROJECT NO:	00193-009-02
DATE:	MARCH 2015
SHEET NO:	M-13