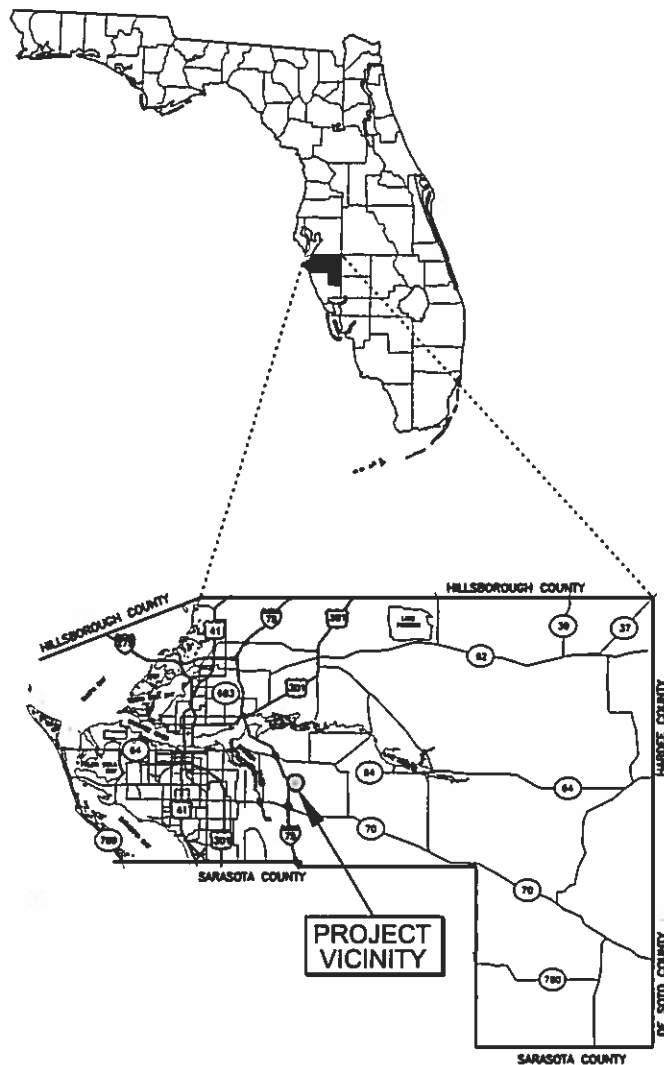


CONTRACT DRAWINGS

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

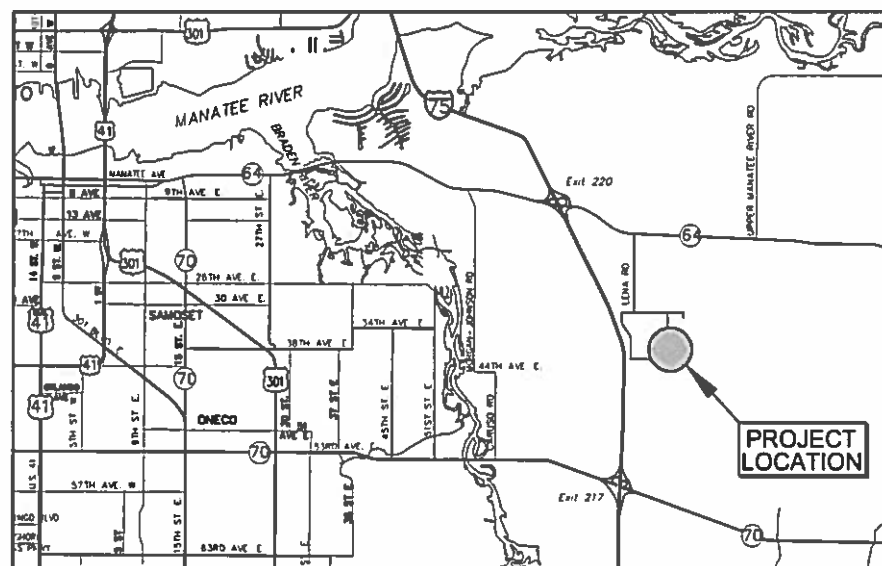
MANATEE COUNTY, FLORIDA

COUNTY PROJECT No. 6083480



VICINITY MAP

NOT TO SCALE



LOCATION MAP

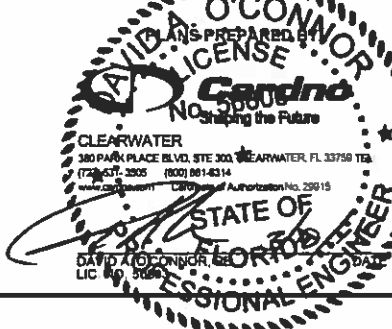
NOT TO SCALE

3331 LENA ROAD BRADENTON, FLORIDA 34206

SECTION 1, TOWNSHIP 35-S, RANGE 18-E

PARCEL - 567110051

MANATEE COUNTY, FLORIDA



ELECTRICAL PLANS
PREPARED BY:



777 E. Fowler Blvd. Ste. 312, Tampa, FL 33602
813-222-8180 FAX 813-227-9186
Certificate of Authorization No. 00003363

STRUCTURAL PLANS
PREPARED BY:



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

NO.	REVISION	BY	DATE

Always call 822 two full business days before you dig	PROJECT NO: 00193-009-02
Sunshine811.com	DATE: MARCH 2015
	SHEET NO: G-1

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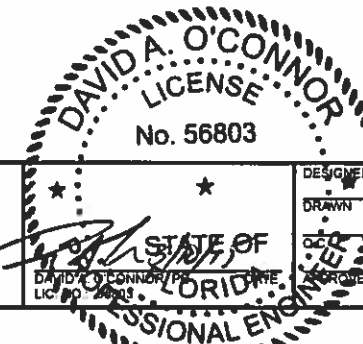
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**SEWRF
SEPTAGE/ GREASE
RECEIVING STATION**



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

Cardno
Shaping the Future
CLEARWATER
380 PARK PLACE BLVD, STE 300, CLEARWATER, FL 33758 TEL:
(727) 531-2625 (800) 861-6314
www.cardno.com Certificate of Authorization No. 29915



DESIGNED: [Signature]
DRAWN: [Signature]
CHECKED: [Signature]
APPROVED: [Signature]

SHEET INDEX

PROJECT NO:
00193-009-02
DATE:
MARCH 2015
SHEET NO:
G-2

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

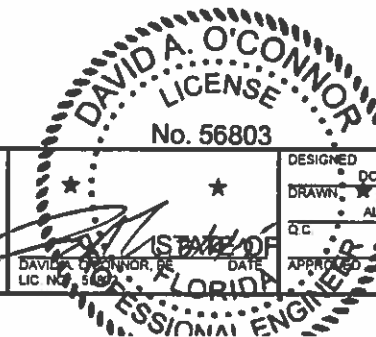
1. THIS IS NOT A BOUNDARY SURVEY.
2. THE SURVEY IS REFERENCED TO A PROJECTION OF THE FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE NAD 1983/2007 ADJUSTMENT).
3. ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
4. THE FOLLOWING BENCHMARK WAS RECOVERED AND UTILIZED FOR THIS 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'

NO	DESCRIPTION	BY	DATE

**SEWRF
SEPTAGE/ GREASE
RECEIVING STATION**



DESIGNED	DOC
DRAWN	ALS
QC	
DATE	
APPROVED	

GENERAL NOTES

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

GENERAL ABBREVIATIONS

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

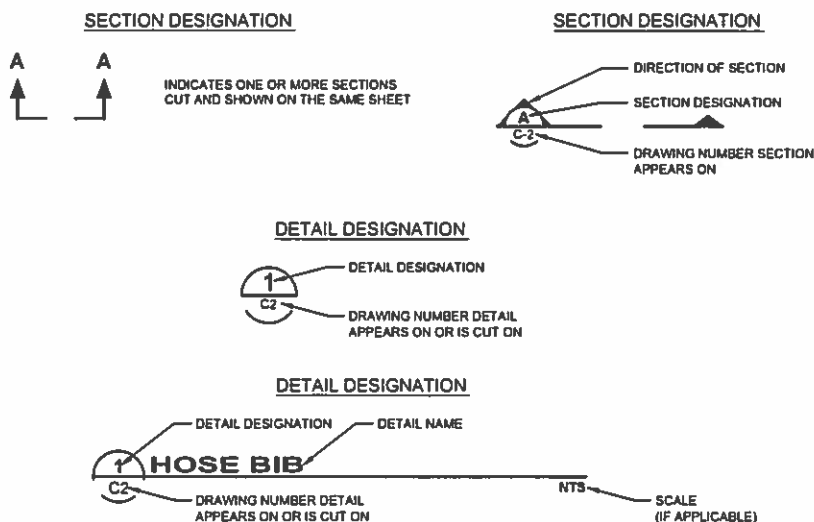
PIPING ABBREVIATIONS

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	
	ROW 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	

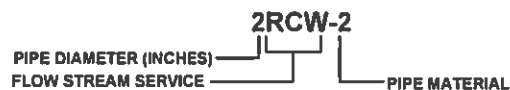
DRAFTING LEGEND



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
44 10 00th Street West Bradenton, Florida 34210
(941) 792-8811

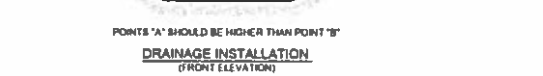
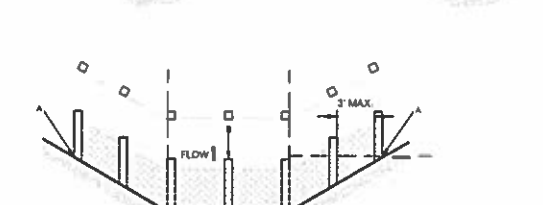
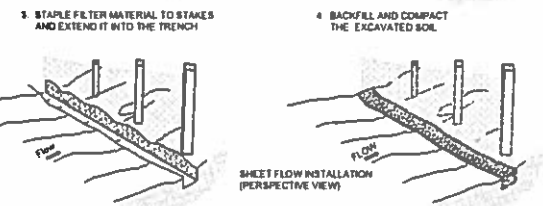
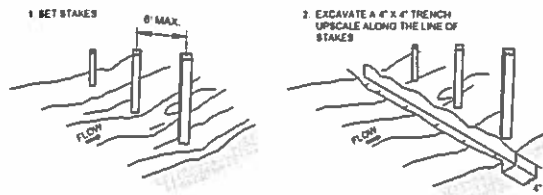
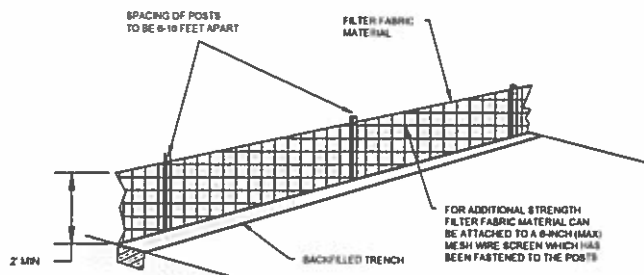
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DAVID A. O'CONNOR
LICENSE
No. 56803
STATE OF FLORIDA
PROFESSIONAL ENGINEER

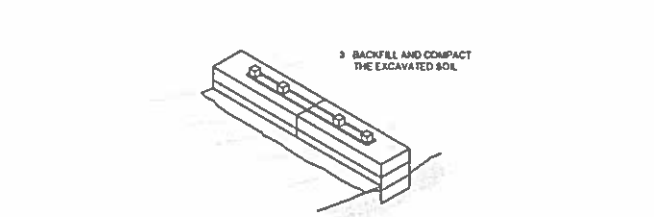
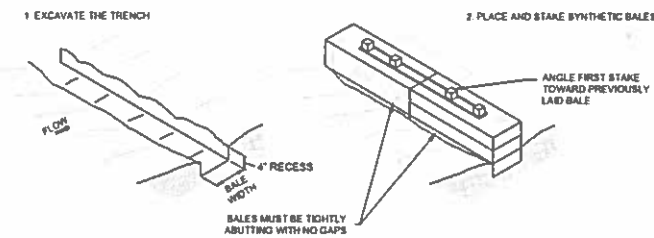
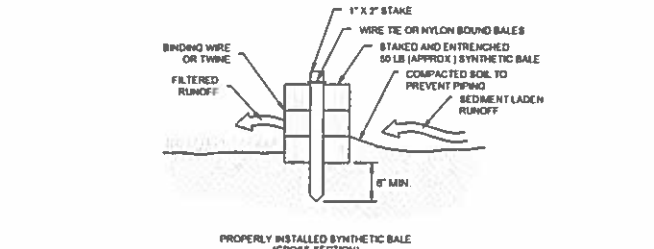
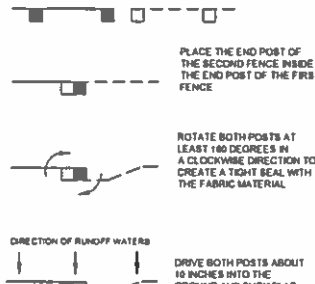
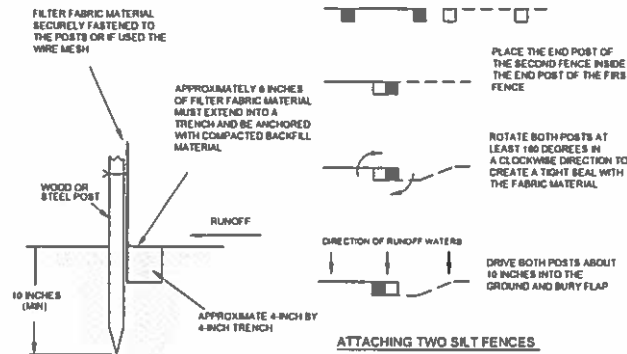
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DRAWN	ALS
CHECKED	ALS
APPROVED	ALS

LEGEND AND ABBREVIATIONS

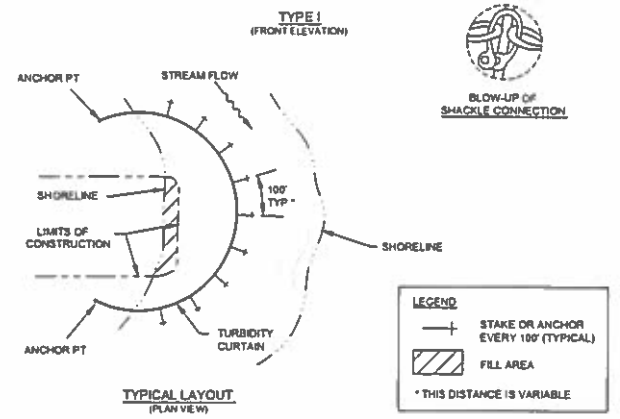
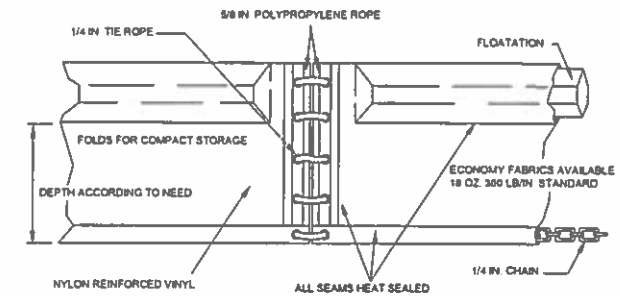
PROJECT NO.	00193-009-02
DATE	MARCH 2015
SHEET NO.	G-4



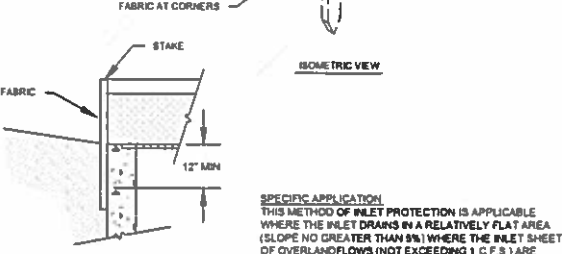
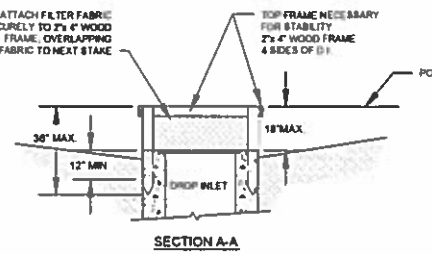
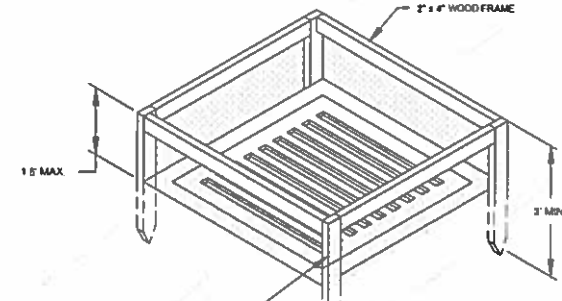
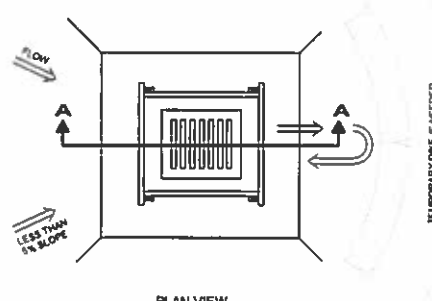
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NOT TO SCALE



TEMPORARY SYNTHETIC BALE SEDIMENT BARRIER
NOT TO SCALE



TEMPORARY FLOATING TURBIDITY BARRIER
NOT TO SCALE

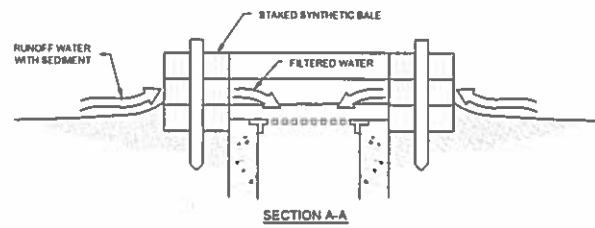
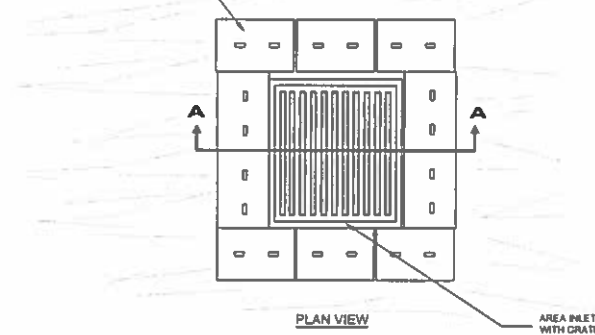


SPECIFIC APPLICATION
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS IN A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) WHERE THE INLET SHEET OF OVERLAND FLOWS (NOT EXCEEDING 1 C.F.S.) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

- NOTES**
1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS (LESS THAN 5%).
 2. USE 2" X 4" WOOD OR EQUIVALENT METAL STAKES (3 FT MIN LENGTH).
 3. INSTALL 2" X 4" WOOD TOP FRAME TO INSURE STABILITY.
 4. THE TOP OF THE FRAME (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.

TEMPORARY SEDIMENT BARRIER AT DROP INLET
NOT TO SCALE

SYNTHETIC BALES ARE TO BE PLACED 4 INCHES IN THE SOIL, TIGHTLY ADJUTING WITH NO GAP. STAKED AND BACKFILLED AROUND THE ENTIRE OUTSIDE PERIMETER.



THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5%) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS STREET OR HIGHWAY MEDIANS.

TEMPORARY SYNTHETIC BALE SEDIMENT BARRIER AT STORM DRAIN INLET
NOT TO SCALE

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

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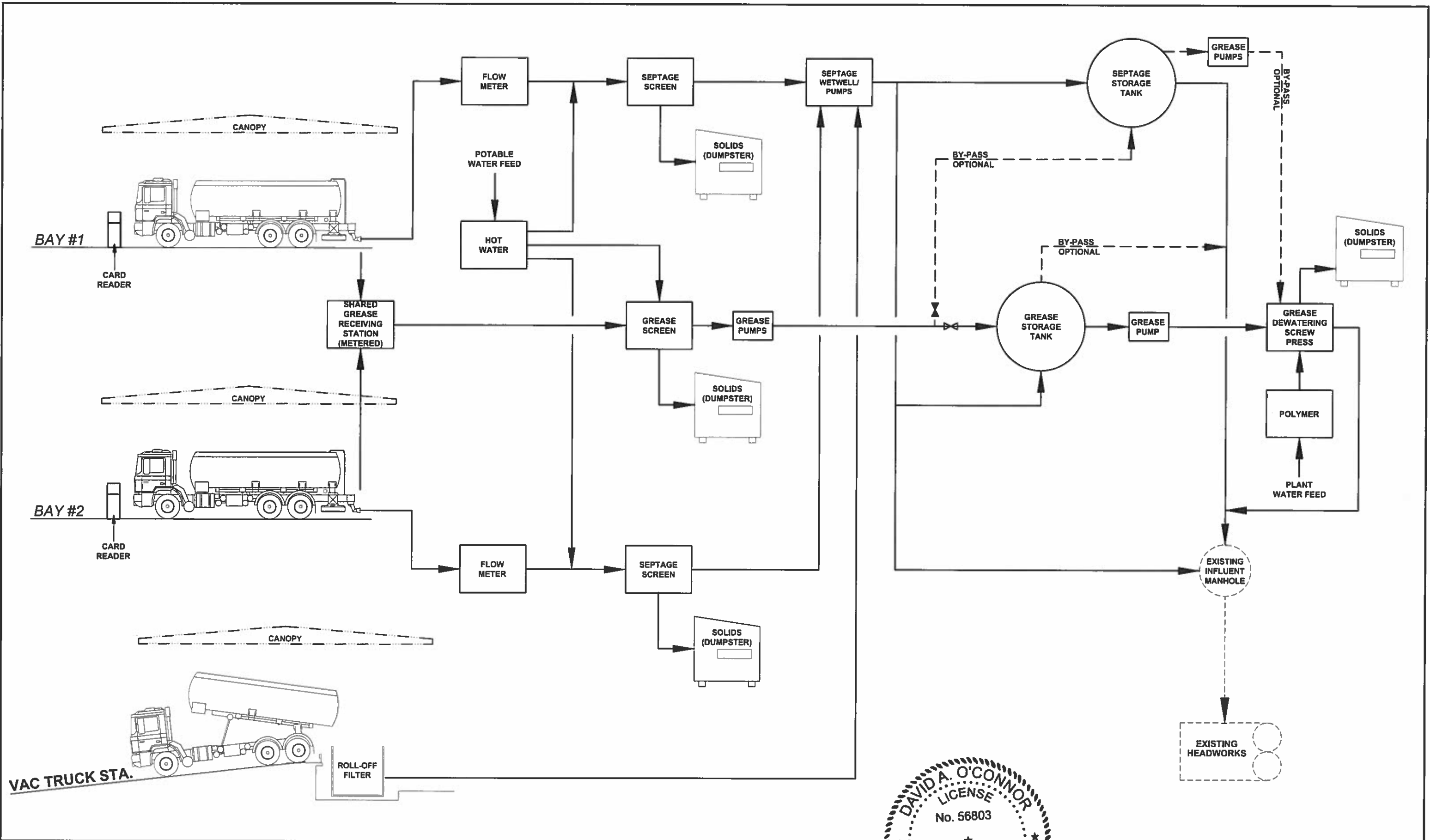
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DESIGNED: DOC
DRAWN: ALS
DATE: 03/15/15
APPROVED: DAVID R. O'CONNOR, PE
L. J. O'CONNOR
No. 56803
STATE OF FLORIDA
PROFESSIONAL ENGINEER

EROSION CONTROL DETAILS AND NOTES

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



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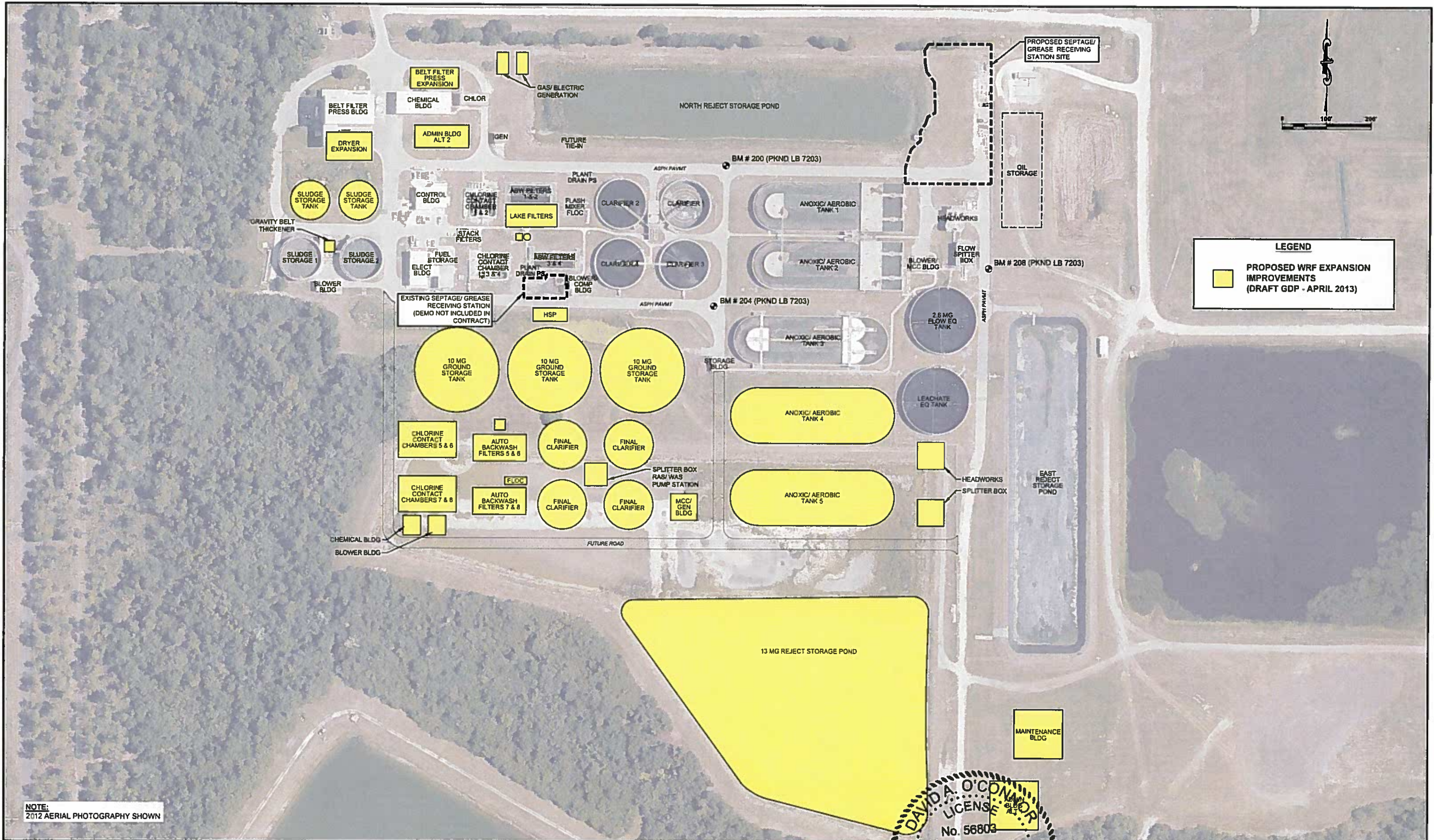
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DAVID A. O'CONNOR
LICENSE
No. 56803
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PROFESSIONAL ENGINEER

PROCESS SCHEMATIC

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

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NOTE:
2012 AERIAL PHOTOGRAPHY SHOWN

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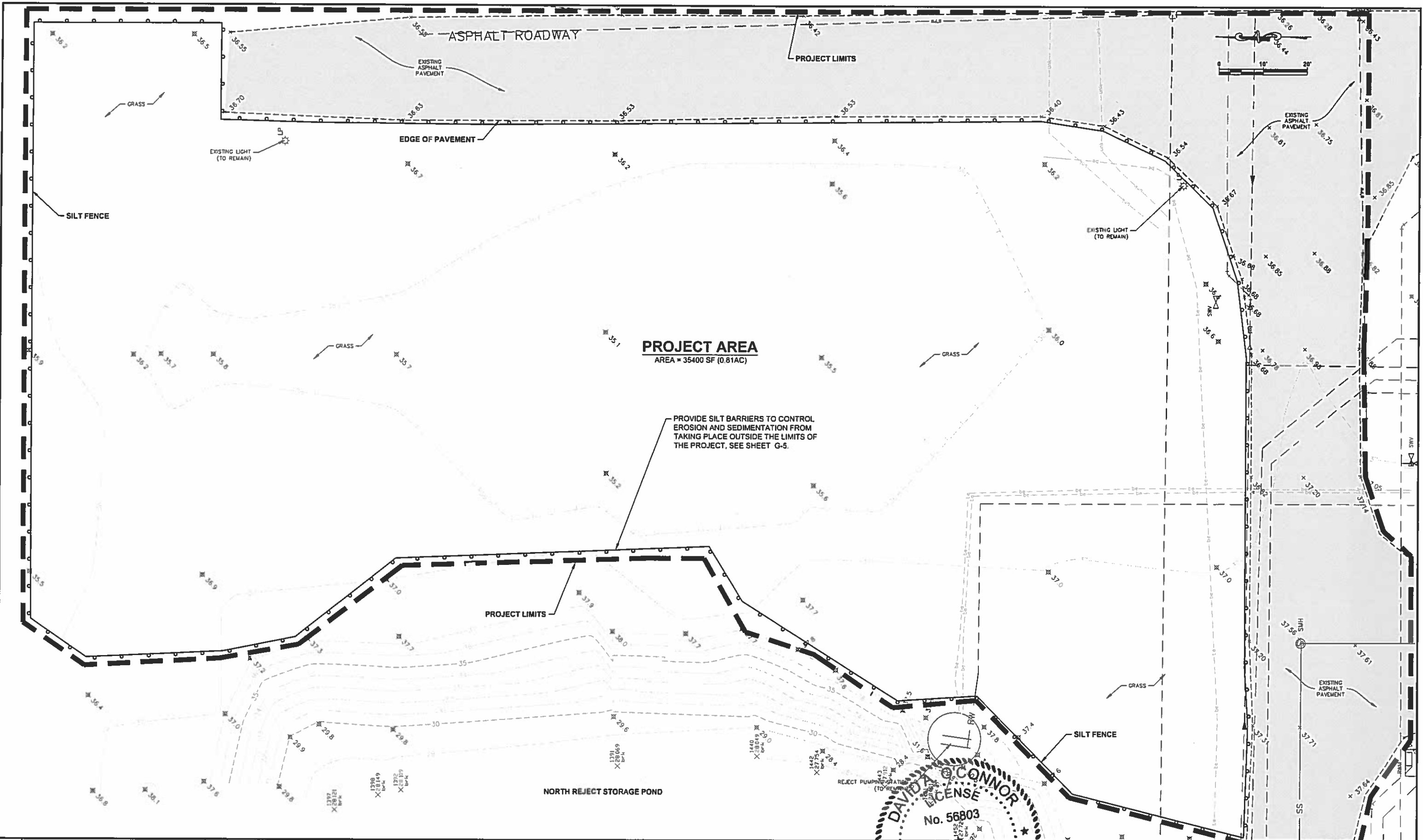
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DAVID A. O'CONNOR
LICENSED PROFESSIONAL ENGINEER
No. 56803
STATE OF FLORIDA
LICENSED PROFESSIONAL ENGINEER

DESIGNED BY: [Signature]
DRAWN BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]

OVERALL PROJECT AREA

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



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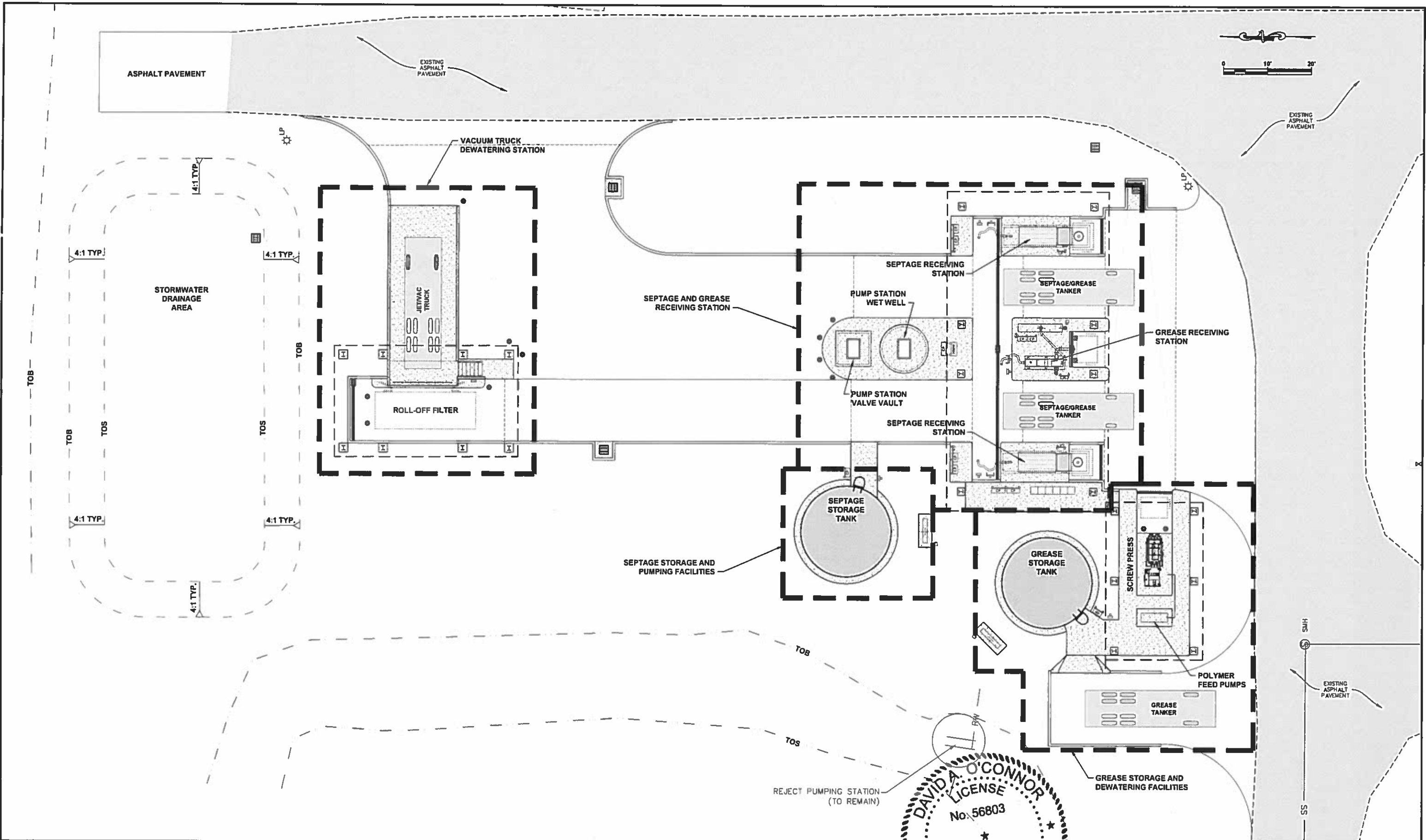

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DESIGNER
 OOC
 OOC
 ALS
 APPROVED
 DAVID A. O'CONNOR, PE
 LIC. No. 56803
 PROFESSIONAL ENGINEER
 STATE OF FLORIDA

**EXISTING SITE AND ERROSION
CONTROL PLAN**

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

FILE: J:\00193-00193-009-02\CAD\dwg\Sheets\PLAN SHEETS.dwg LAST SAVED: Tue, 03/10/15 3:11p PLOTTED: Tue, 03/10/15 3:17p BY: Dave Shewley



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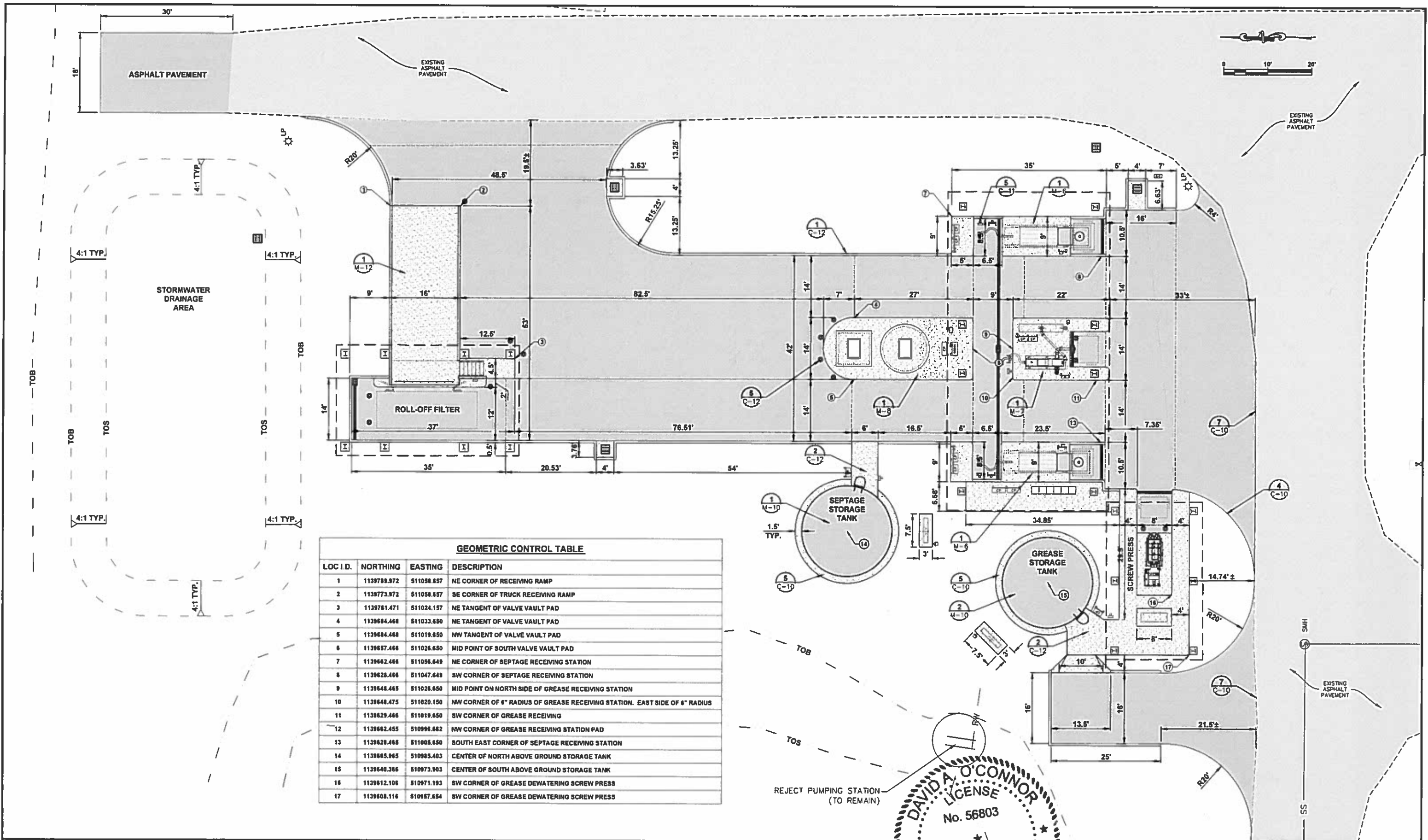

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 DAVID A. O'CONNOR
 LICENSE
 No. 56803
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

**SITE LAYOUT AND FACILITIES PAY
ITEMS PLAN**

PROJECT NO:	00193-009-02
DATE:	MARCH 2015
SHEET NO:	C-2

FILE: J:\00193\00193009\02ACAD\DrawSheets\PLAN SHEETS.dwg LAST SAVED: Tue, 03/10/15 3:11p PLOTTED: Tue, 03/10/15 3:17p BY: Dave Shively



GEOMETRIC CONTROL TABLE			
LOC I.D.	NORTHING	EASTING	DESCRIPTION
1	1139789.972	511058.657	NE CORNER OF RECEIVING RAMP
2	1139773.972	511058.657	SE CORNER OF TRUCK RECEIVING RAMP
3	1139761.471	511024.157	NE TANGENT OF VALVE VAULT PAD
4	1139684.468	511033.650	NE TANGENT OF VALVE VAULT PAD
5	1139684.468	511019.650	NW TANGENT OF VALVE VAULT PAD
6	1139657.466	511026.650	MID POINT OF SOUTH VALVE VAULT PAD
7	1139662.466	511056.649	NE CORNER OF SEPTAGE RECEIVING STATION
8	1139628.466	511047.649	SW CORNER OF SEPTAGE RECEIVING STATION
9	1139648.465	511026.650	MID POINT ON NORTH SIDE OF GREASE RECEIVING STATION
10	1139648.475	511020.150	NW CORNER OF 6" RADIUS OF GREASE RECEIVING STATION. EAST SIDE OF 6" RADIUS
11	1139629.466	511019.650	SW CORNER OF GREASE RECEIVING
12	1139662.455	510996.662	NW CORNER OF GREASE RECEIVING STATION PAD
13	1139628.465	511005.650	SOUTH EAST CORNER OF SEPTAGE RECEIVING STATION
14	1139665.965	510985.403	CENTER OF NORTH ABOVE GROUND STORAGE TANK
15	1139640.366	510973.903	CENTER OF SOUTH ABOVE GROUND STORAGE TANK
16	1139612.106	510971.193	SW CORNER OF GREASE DEWATERING SCREW PRESS
17	1139608.116	510957.654	SW CORNER OF GREASE DEWATERING SCREW PRESS

DAVID A. O'CONNOR
 LICENSE
 No. 56803
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 DESIGNER
 DRAWN
 CHECKED
 APPROVED
 DATE
 LIC. NO. 56803

NO.	DESCRIPTION	BY	DATE

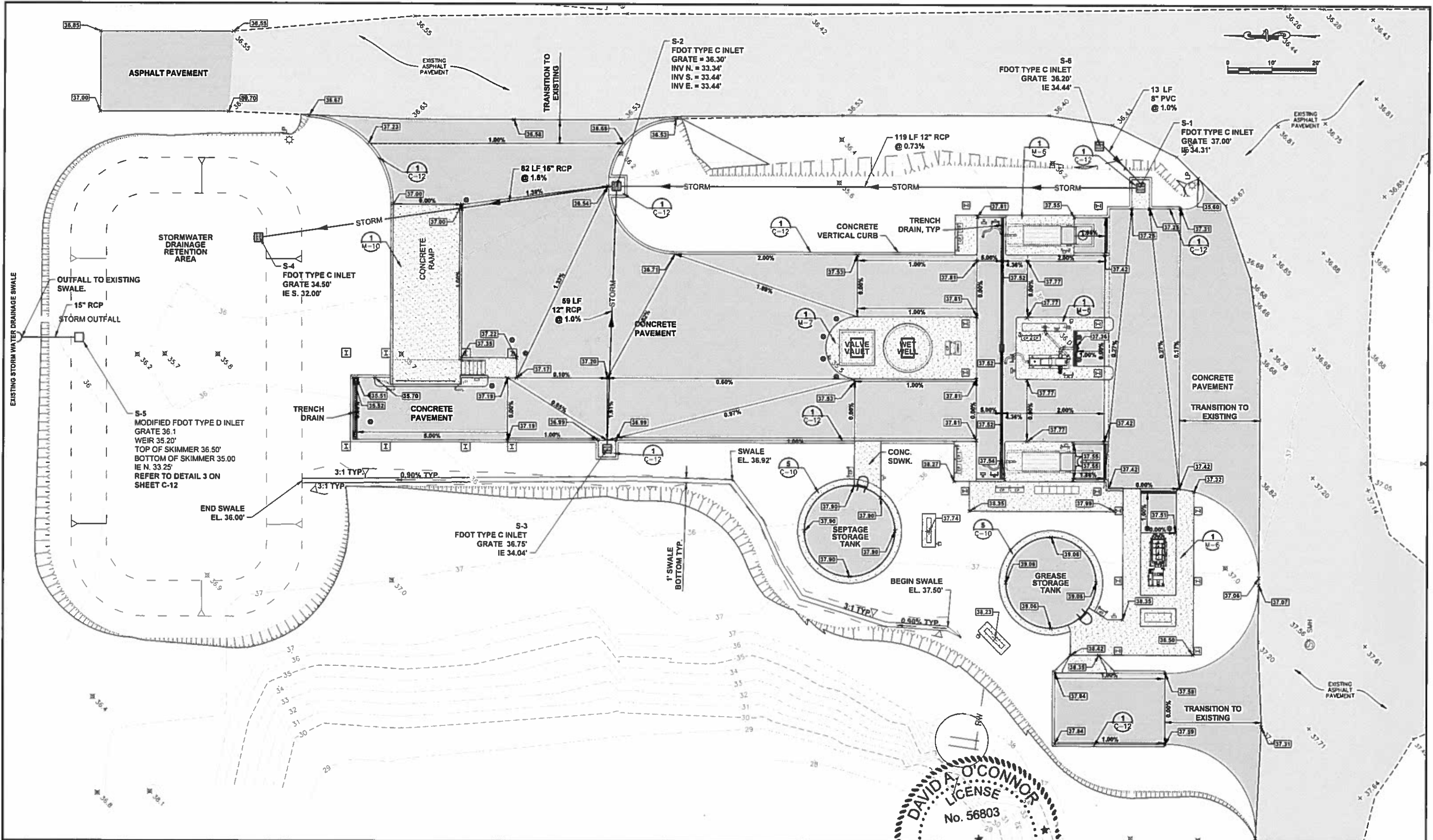
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PROPOSED SITE PLAN

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

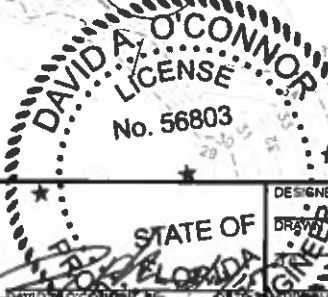


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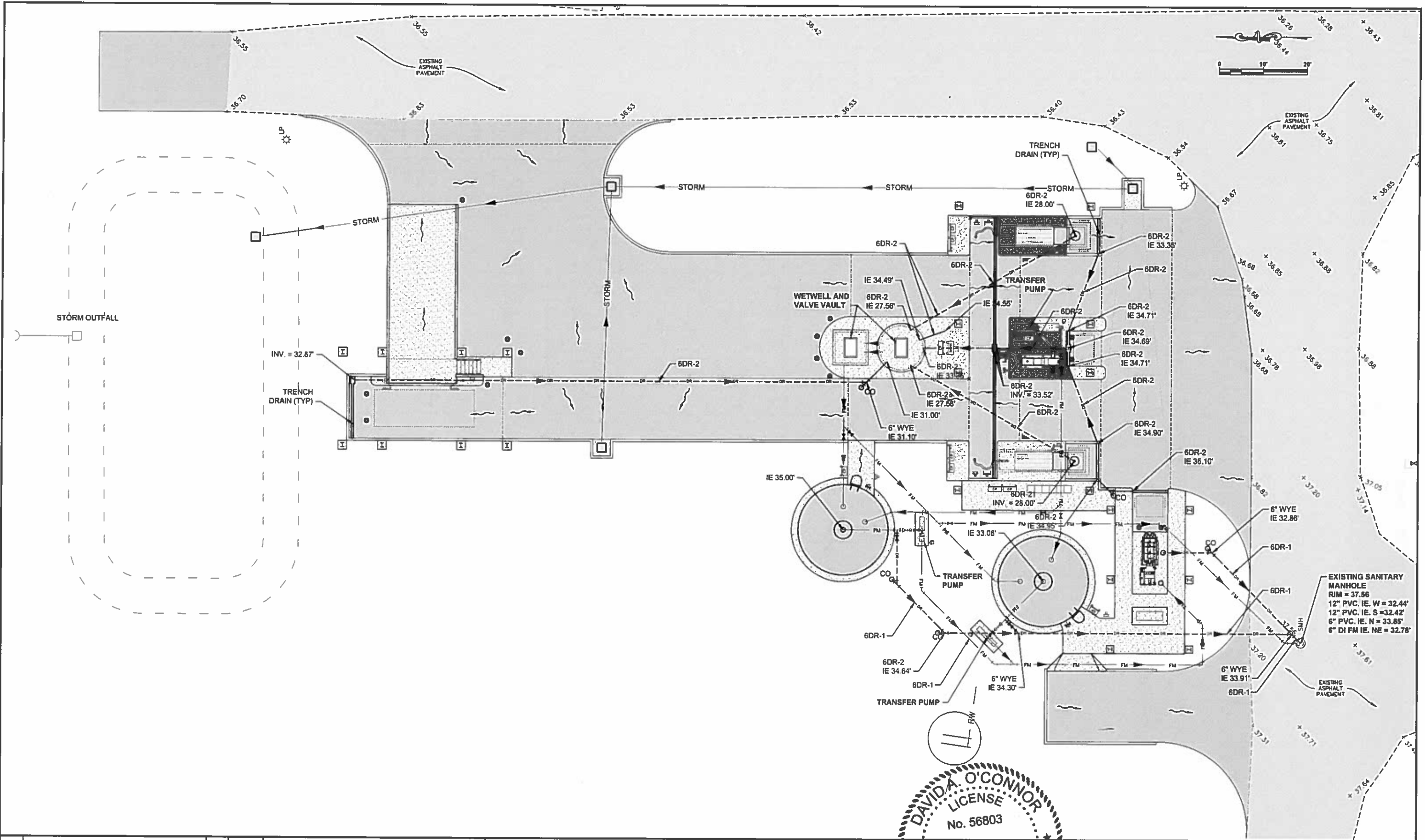

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DAVID A. O'CONNOR
 LICENSE
 No. 56803
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

PAVING AND GRADING PLAN


PROJECT NO:	00193-09-02
DATE:	MARCH 2015
SHEET NO:	C-4

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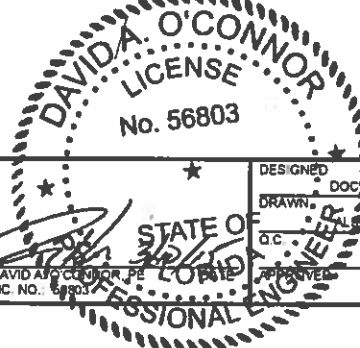


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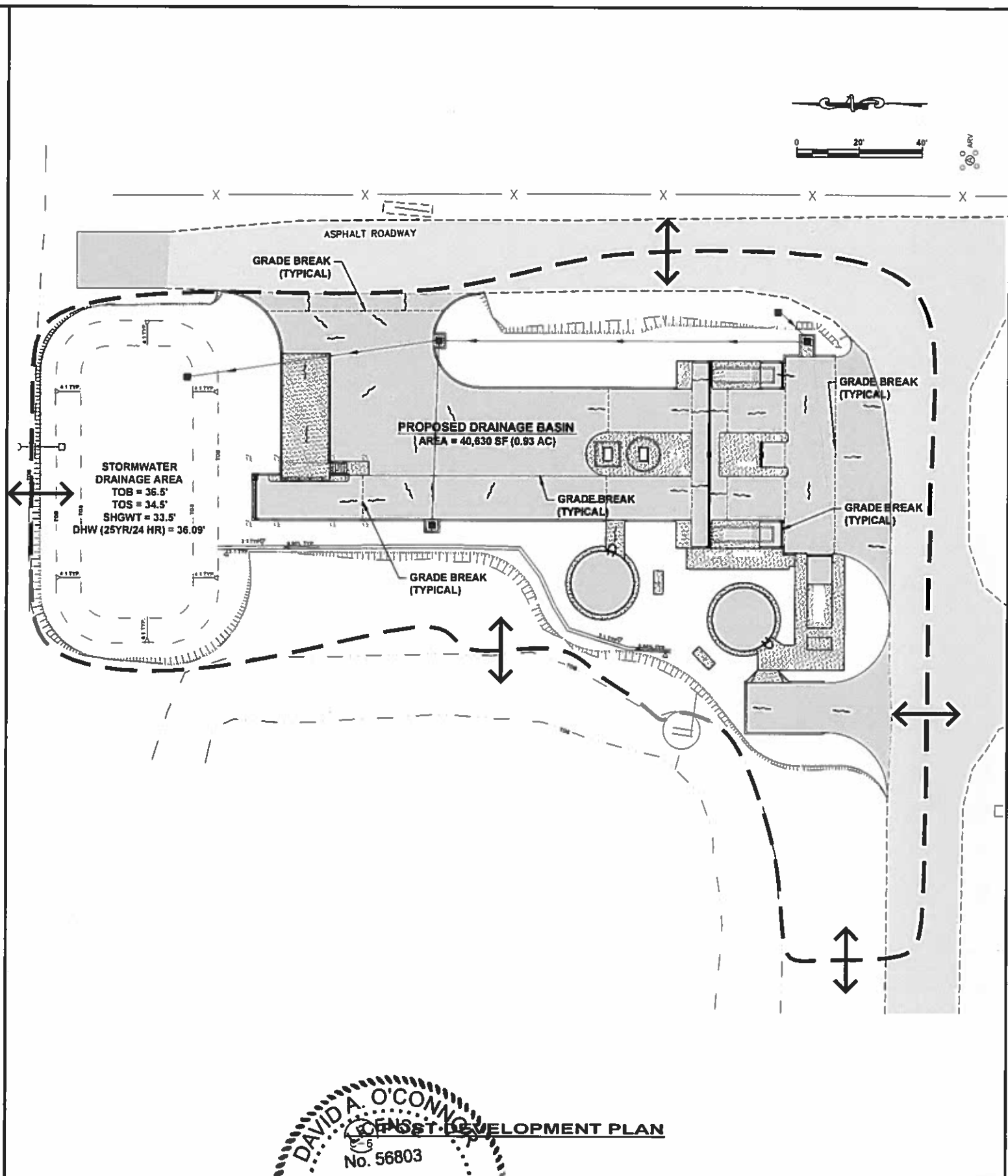
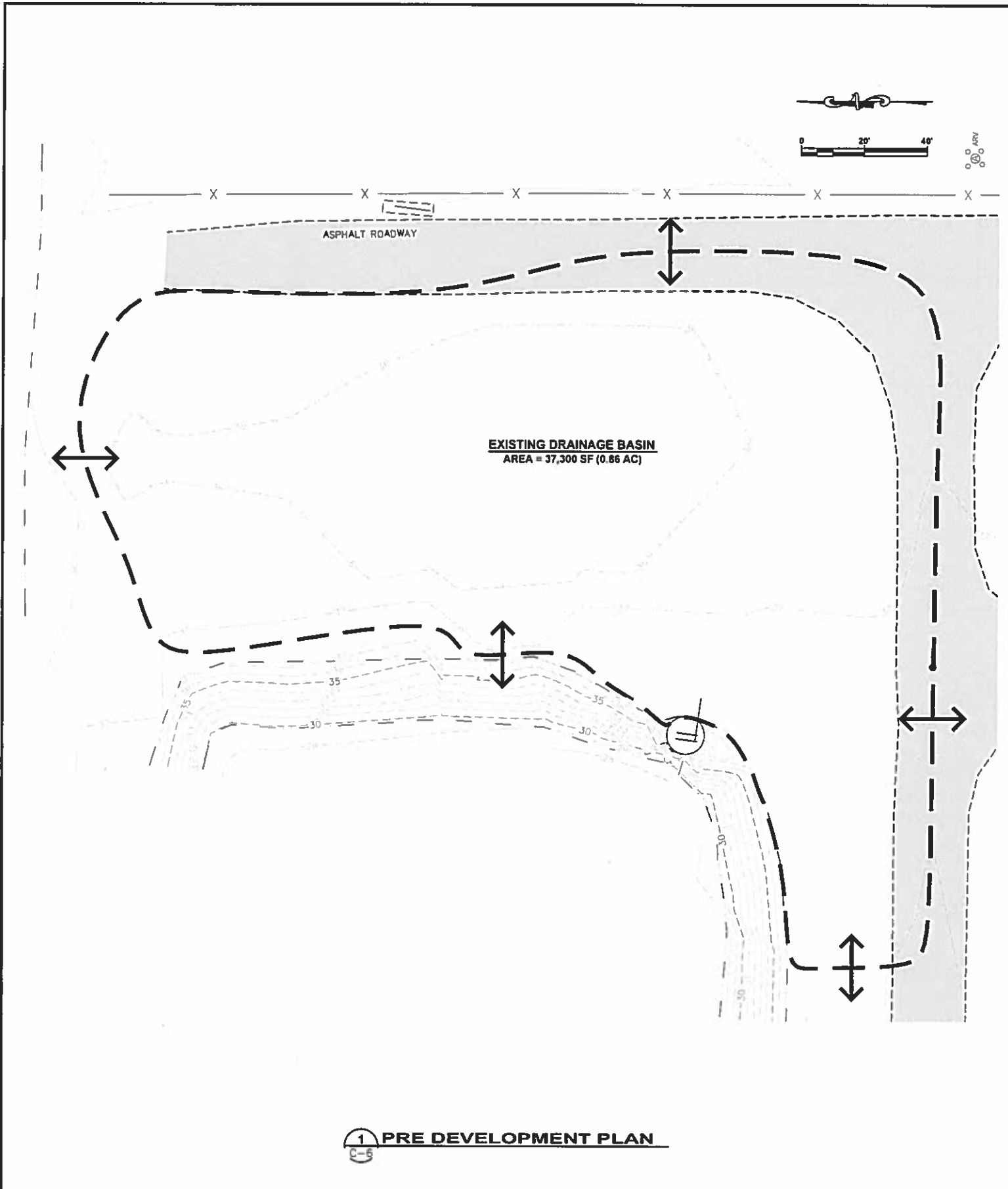

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PLANT DRAIN PIPING PLAN

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

FILE: J:\00193\00193\009\02\CAD\dwg\Sheets\PLAN SHEETS.dwg LAST SAVED: Tue, 03/10/15 4:27p PLOTTED: Tue, 03/10/15 4:32p BY: Dave Stevely



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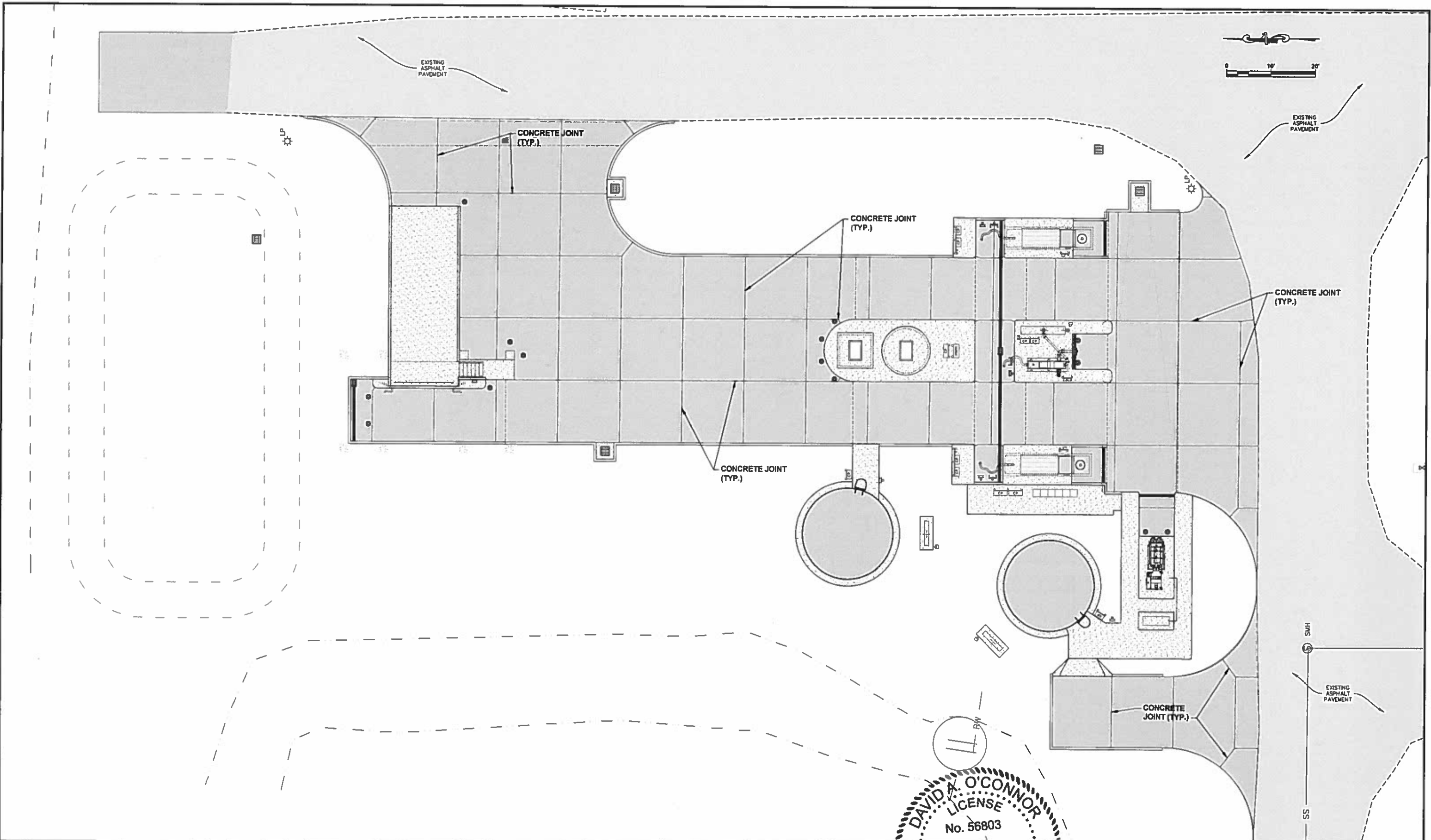
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DAVID A. O'CONNOR
Professional Engineer
No. 56803
STATE OF FLORIDA
Professional Engineer

SITE DRAINAGE BASINS


PROJECT NO.	00193-009-02
DATE	MARCH 2015
SHEET NO.	C-6

FILE: J:\00193\00193009\02\CAD\dwg\Sheets\PLAN SHEETS.dwg LAST SAVED Tue, 03/10/15 3:11p PLOTTED Tue, 03/10/15 3:18p BY: Dave Shevly




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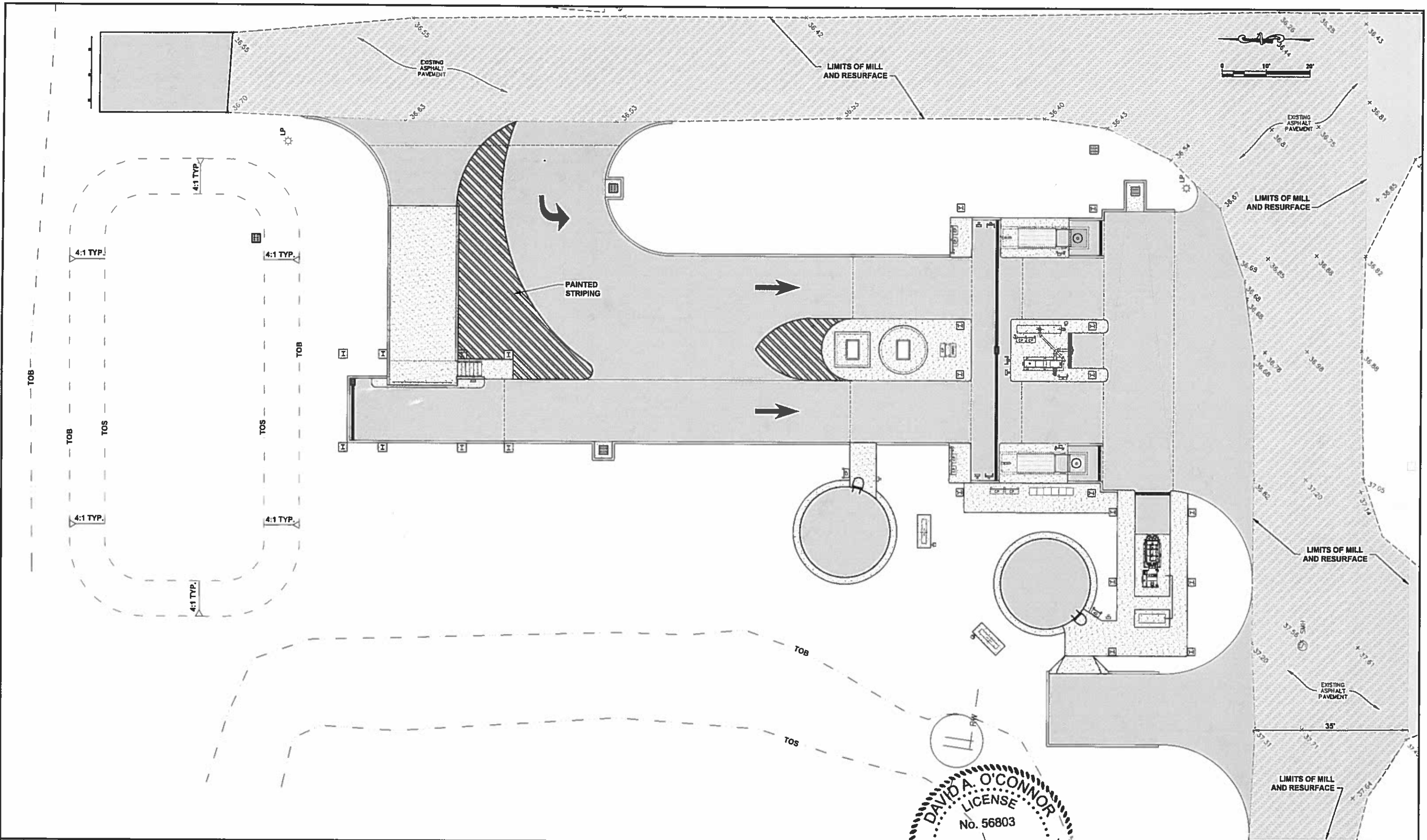

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**CONCRETE CONSTRUCTION JOINT
PLAN**

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

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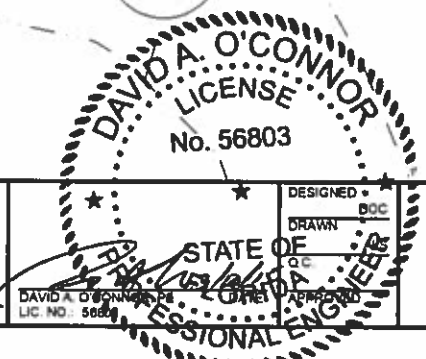


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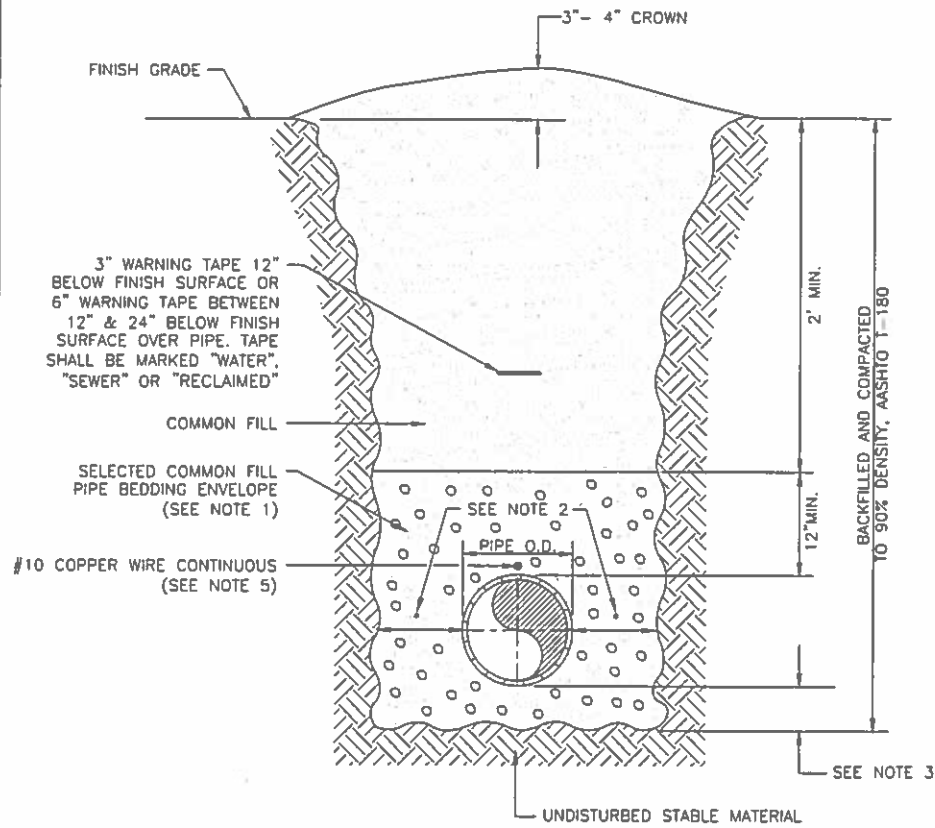

 DAVID A. O'CONNOR
 LICENSE
 No. 56803
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

**PAVMENT REPLACEMENT,
MARKINGS AND SIGNAGE PLAN**

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

NOTES:

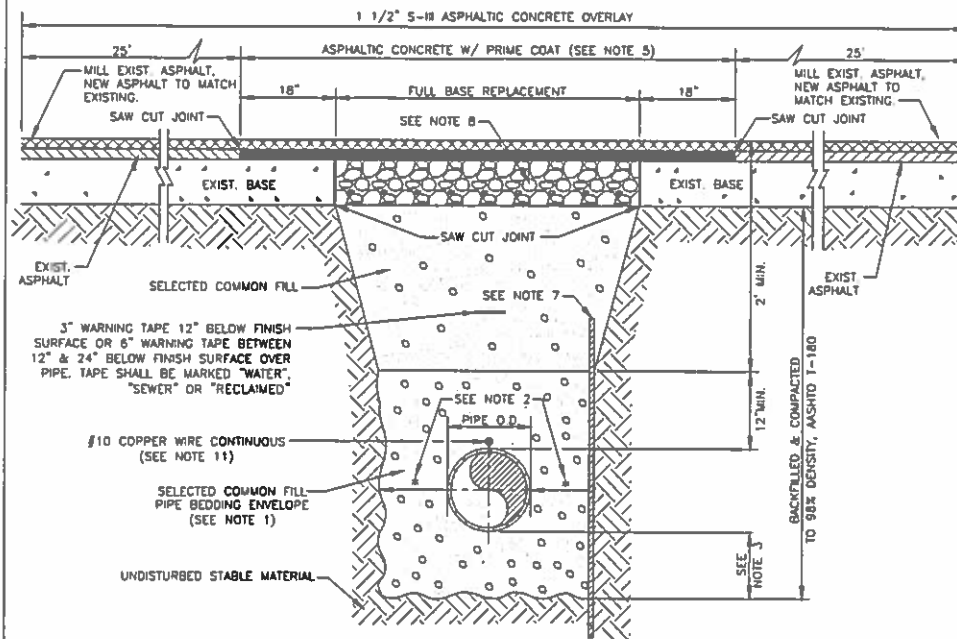
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2. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
3. TYPICALLY 4" TO 6".
4. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.



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

NOTES:

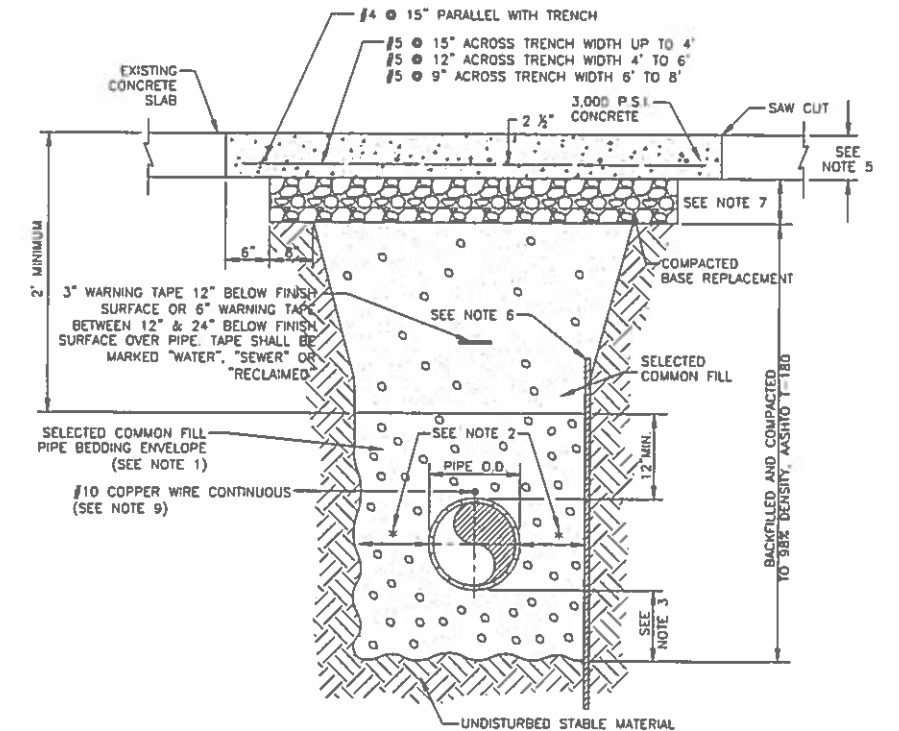
1. USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
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 PUBLIC WORKS DEPARTMENT		TRENCH WITH ASPHALT PAVEMENT SURFACE TYPE A-1 PIPE BEDDING	UG-12
REV. BY WRT/KE	DATE 03/11	MAY 10, 2011 DATE OF APPROVAL	PAGE 112

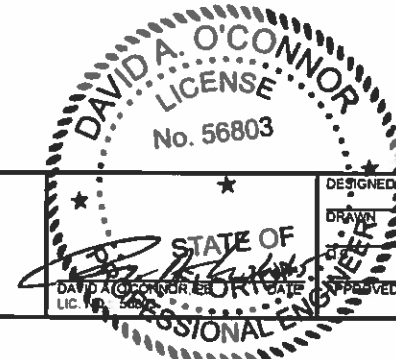
NOTES:

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.



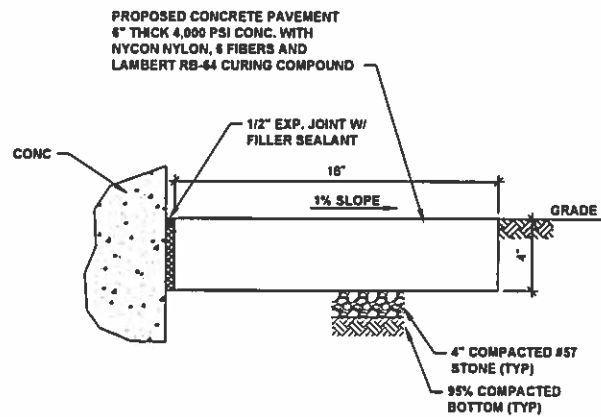
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH CONCRETE PAVEMENT SURFACE TYPE A-1 PIPE BEDDING	UG-13
REV. BY CLB/BR	DATE 11/10	MAY 10, 2011 DATE OF APPROVAL	PAGE 113

**SEWRF
SEPTAGE/ GREASE
RECEIVING STATION**

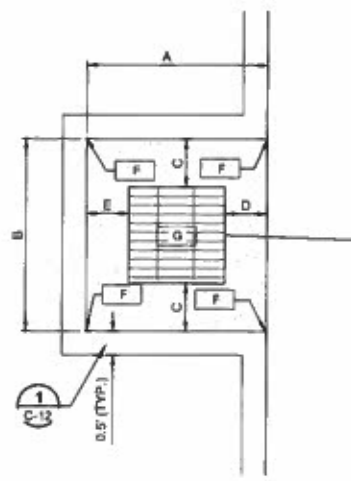


CIVIL DETAILS (1)

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

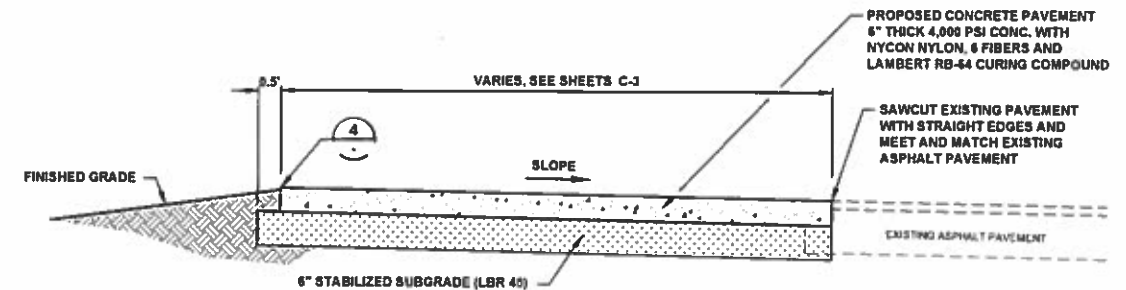


1 LANDSCAPE APRON DETAIL
C-3 NTS

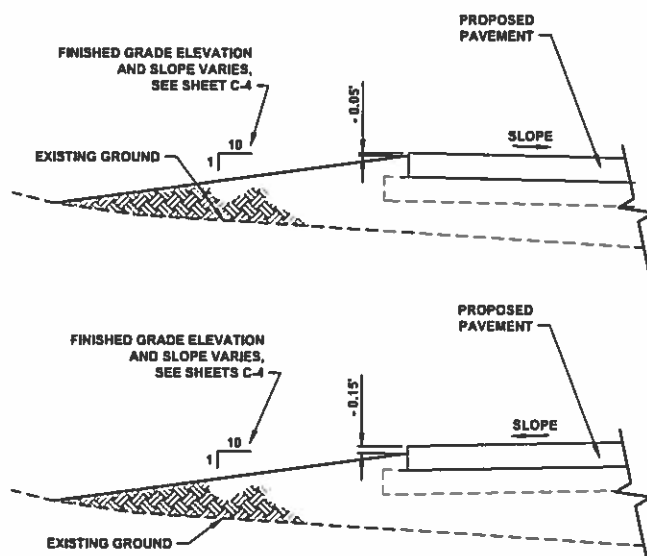


STRUCTURE DIMENSIONS & ELEVATIONS			
	S-2	S-3	S-4
A	3.76'	3.63'	6.83'
B	4.00'	4.00'	4.00'
C	1.00'	1.00'	1.00'
D	0.88'	0.75'	3.75'
E	0.88'	0.88'	0.88'
F	36.99'	36.55'	37.25'
G	36.75'	36.30'	37.00'

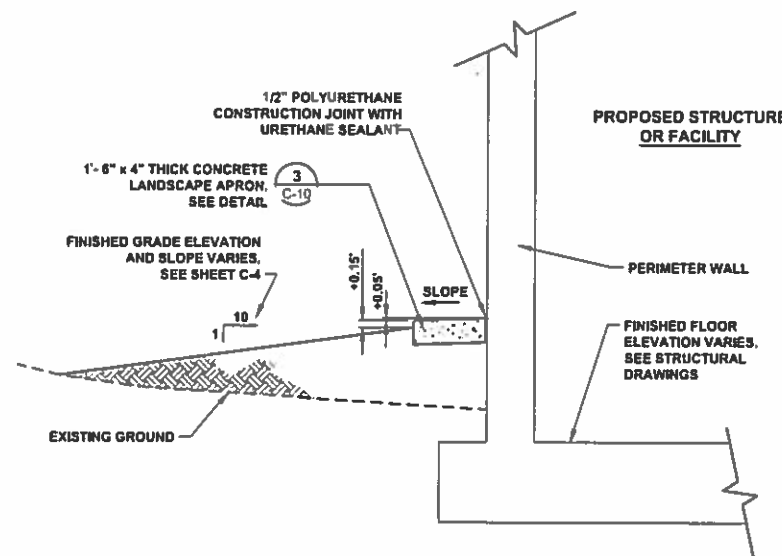
2 DRAINAGE STRUCTURE DIMENSIONS AND ELEVATIONS
C-12 NTS



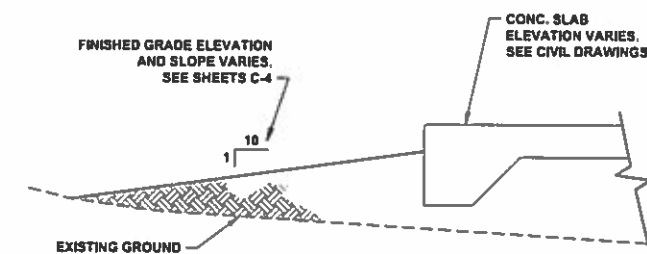
3 PROPOSED CONCRETE PAVEMENT DETAIL
C-3 NTS



4 GRADING AT PROPOSED CONC. PAVEMENT DETAIL
C-3



5 GRADING AT STRUCTURES DETAIL
C-3



6 GRADING AT CONCRETE SLAB DETAIL
C-3

SEWRF
SEPTAGE/ GREASE
RECEIVING STATION

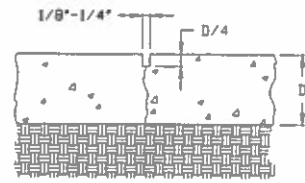
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DAVID A. O'CONNOR
LICENSE
No. 56803
DESIGNED
DRAWN
DATE
DATE
PROFESSIONAL ENGINEER

CIVIL DETAILS (2)

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



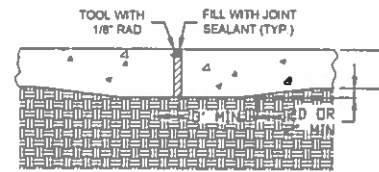
TYPE 'A' UNDOWELED CONTRACTION (CONTROL) JOINT
NTS

UNDOWELED TRANSVERSE CONTRACTION OR LONGITUDINAL JOINT. SAWED OR PRE-MOLDED. DO NOT DOWEL PAVEMENTS LESS THAN 7" THICK.



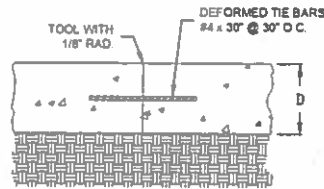
TYPE 'C' CONSTRUCTION JOINT
NTS

LONGITUDINAL KEYWAY CONSTRUCTION JOINT FOR PAVEMENT 6 INCHES OR GREATER. TYPE C-1 STRAIGHT BUTT TYPE JOINT USED FOR PAVEMENTS LESS THAN 6 INCHES.



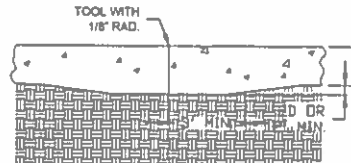
TYPE 'D' BUTT JOINT
NTS

ISOLATION JOINT FOR PAVEMENTS LESS THAN 8" THICK.



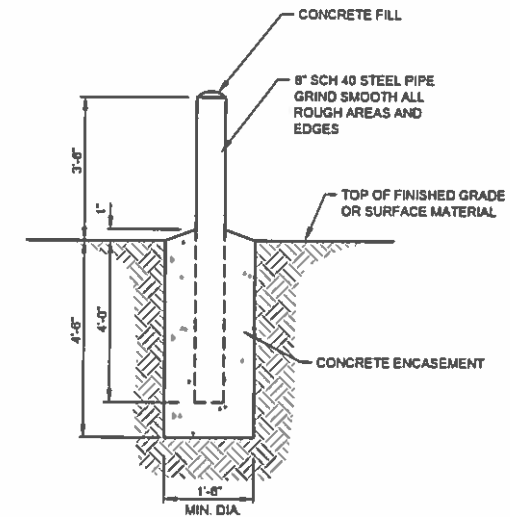
TYPE 'B' TIED JOINT
NTS

TIED LONGITUDINAL CONSTRUCTION OR CONTRACTION JOINT WHERE REQUIRED. NOTE: DO NOT TIE MORE THAN THREE LANES TOGETHER.



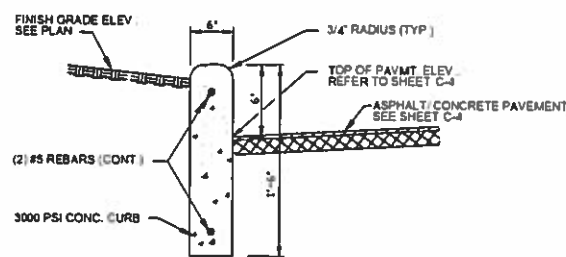
TYPE 'C-1' BUTT JOINT
NTS

IN LIEU OF THICKENING EDGES, OVERALL PAVEMENT THICKNESS MAY BE INCREASED AS FOLLOWS: 8 INCHES OR LESS, ADD 0.5 INCH; MORE THAN 8 INCHES, ADD 1 INCH.

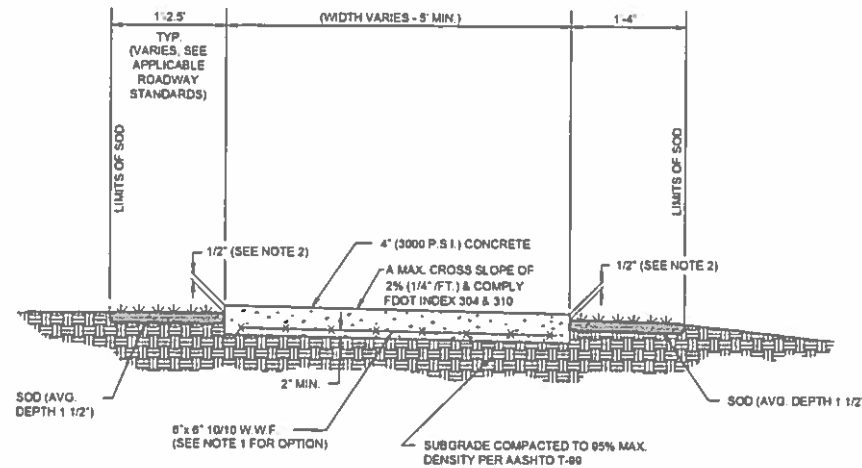


5 TYPICAL BOLLARD DETAIL
NTS

4 CONCRETE JOINT DETAIL
NTS

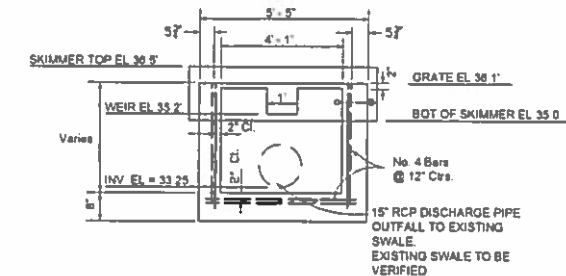
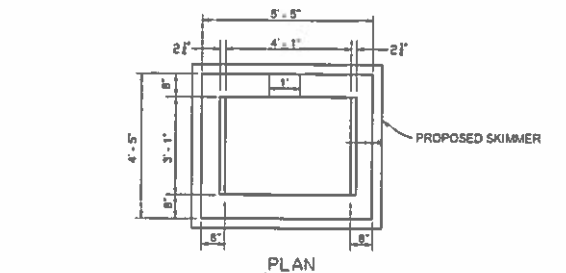


1 CONCRETE VERTICAL CURB DETAIL
NTS



- NOTES:**
1. IN LIEU OF WIRE WOVEN FABRIC CONTRACTOR MAY USE CONCRETE REINFORCED WITH FIBERMESH AS AN ACCEPTABLE ALTERNATE.
 2. SPECIAL ATTENTION SHALL BE GIVEN TO THE GRADED SOD PLACEMENT TRENCH. THE GRADING BY THE CONTRACTOR SHALL PROVIDE A 1/2" DROP FROM THE SIDEWALK TO THE TOP OF THE SOD.
 3. SIDEWALKS ABUTTING DRAINAGE STRUCTURES SHALL BE LEVEL WITH THE TOP OF THE STRUCTURE.

2 CONCRETE SIDEWALK DETAIL
NTS



SECTION
Recommended Maximum Pipe Size
3'-1" Wall - 24" Pipe
4'-1" Wall - 36" Pipe

3 MODIFIED FDOT TYPE D CONTRACTION CONTROL STRUCTURE DETAIL
NTS

SEWRF SEPTAGE/ GREASE RECEIVING STATION

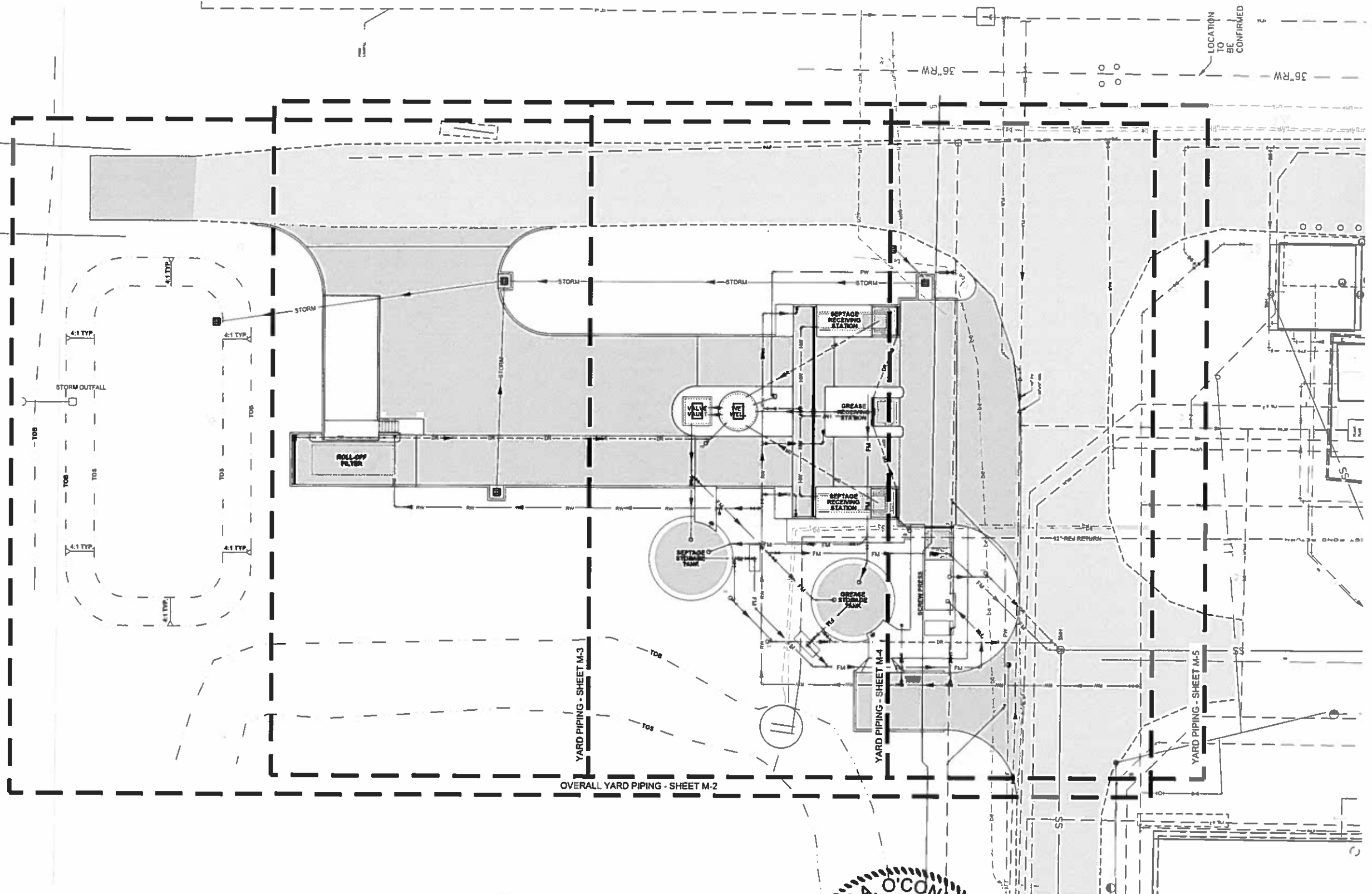
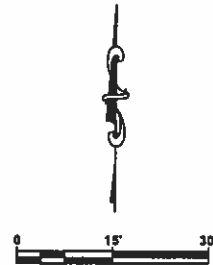
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DAVID A. O'CONNOR
LICENSE
No. 58803
DESIGNED BY BO
DRAWN BY AL
DATE APPROVED
STATE OF FLORIDA
PROFESSIONAL ENGINEER


CIVIL DETAILS (4)

PROJECT NO.
00193-009-02
DATE
MARCH 2015
SHEET NO.
C-12

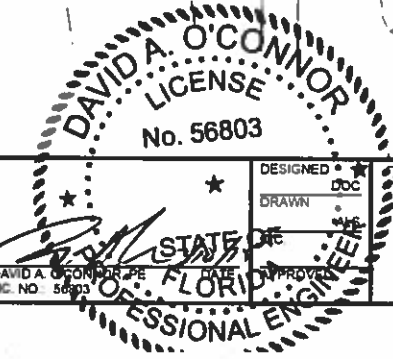


NO.	DESCRIPTION	BY	DATE

**SEWRF
SEPTAGE/ GREASE
RECEIVING STATION**


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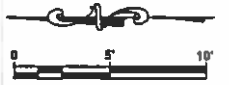
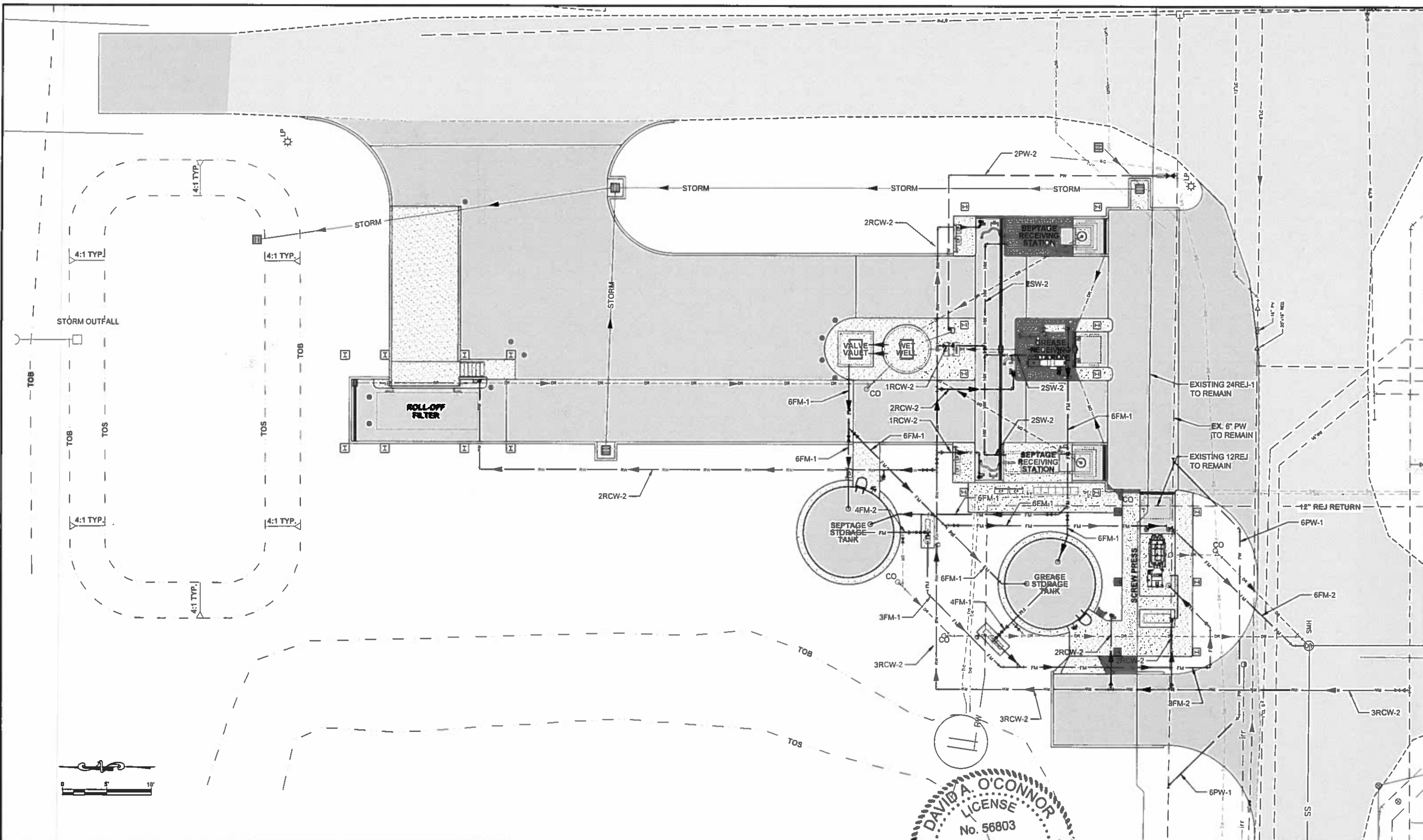

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 DAVID A. O'CONNOR
 LICENSE
 No. 56803
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

YARD PIPING KEY SHEET

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

FILE: J:\0018300193009\02ACAD\dwg\Sheets\PLAN SHEET M-YARD PIPING.dwg LAST SAVED Tue, 03/10/15 1:18p PLOTTED Tue, 03/10/15 3:20p BY: Dave Stevely

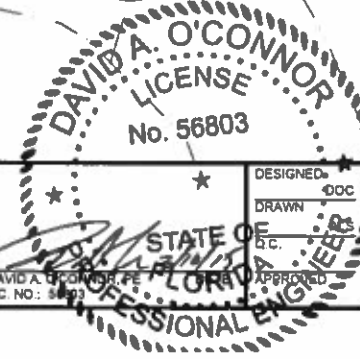


NO.	DESCRIPTION	BY	DATE

**SEWRF
SEPTAGE/ GREASE
RECEIVING STATION**

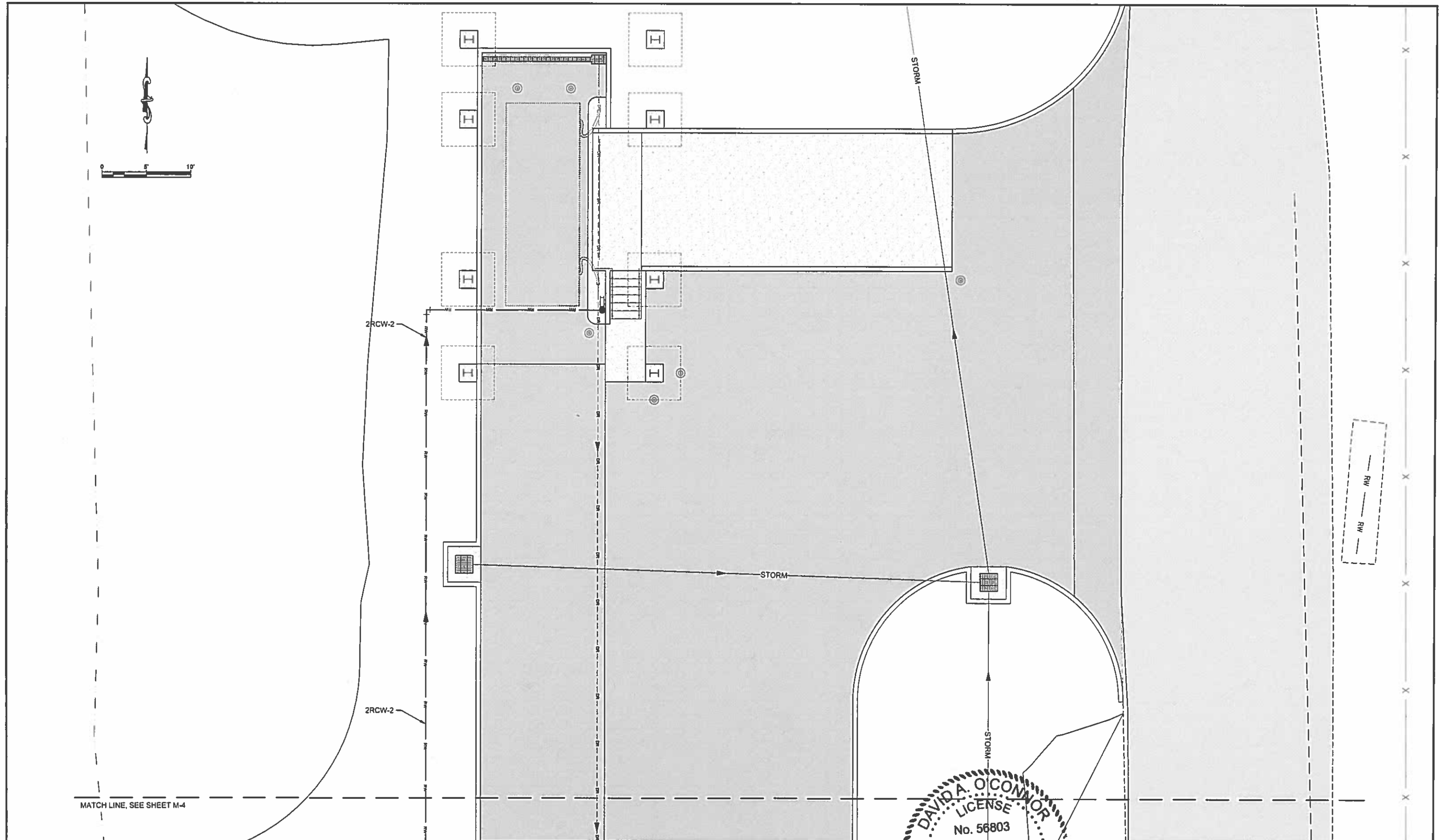
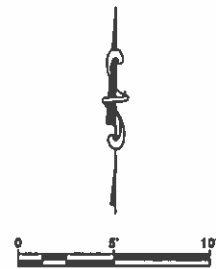

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 DAVID A. O'CONNOR
 LICENSE
 No. 56803
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

OVER ALL YARD PIPING


PROJECT NO:	00193-009-02
DATE:	MARCH 2015
SHEET NO:	M-2



MATCH LINE, SEE SHEET M-4

NO	DESCRIPTION	BY	DATE

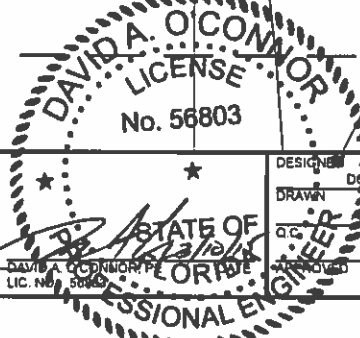
**SEWRF
SEPTAGE/ GREASE
RECEIVING STATION**



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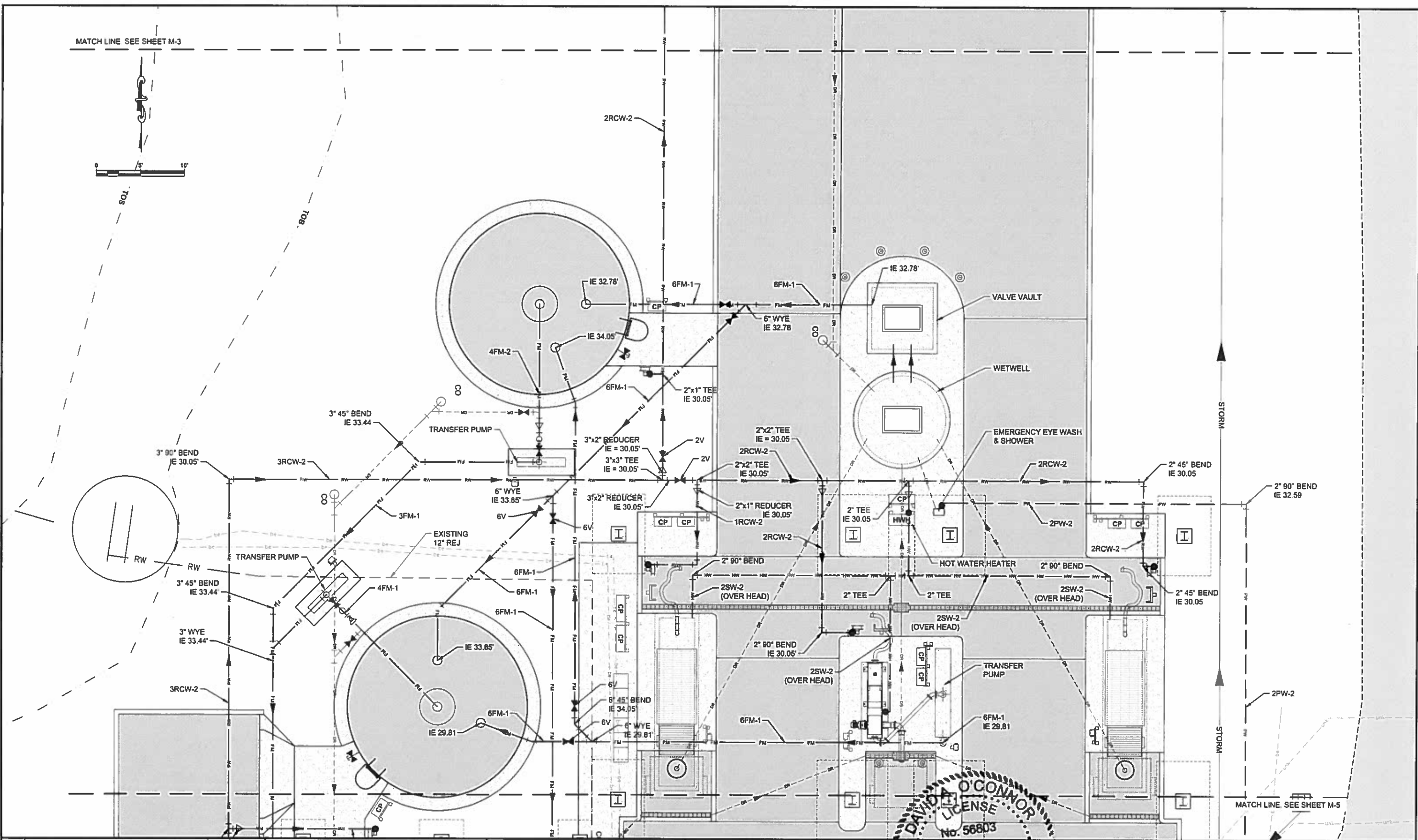


DAVID A. O'CONNOR
LICENSE
No. 56803
STATE OF FLORIDA
PROFESSIONAL ENGINEER

YARD PIPING (1)

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

MATCH LINE. SEE SHEET M-3



MATCH LINE. SEE SHEET M-5

**SEWRF
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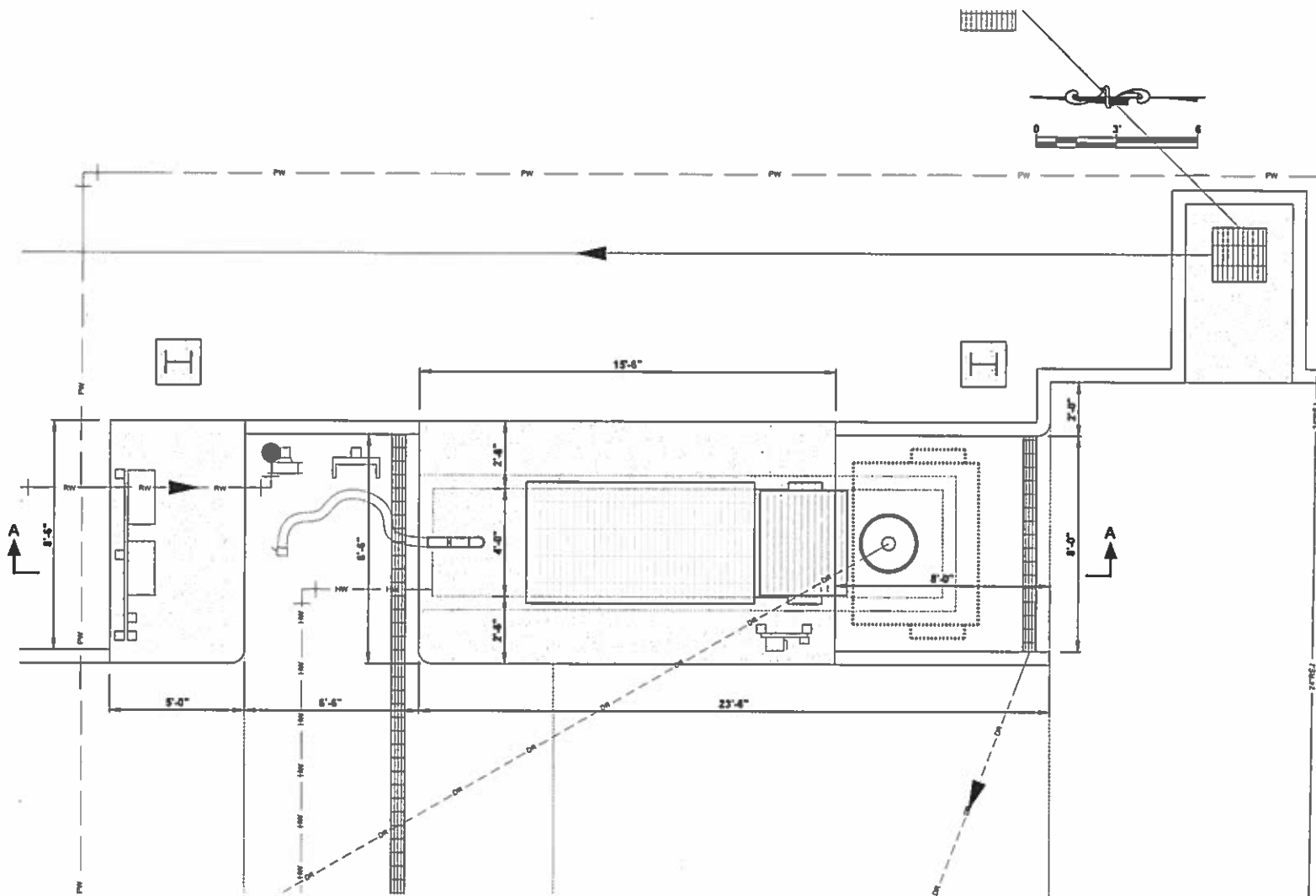
DAVID A. O'CONNOR
LICENSE
No. 56803
PROFESSIONAL ENGINEER

YARD PIPING (2)

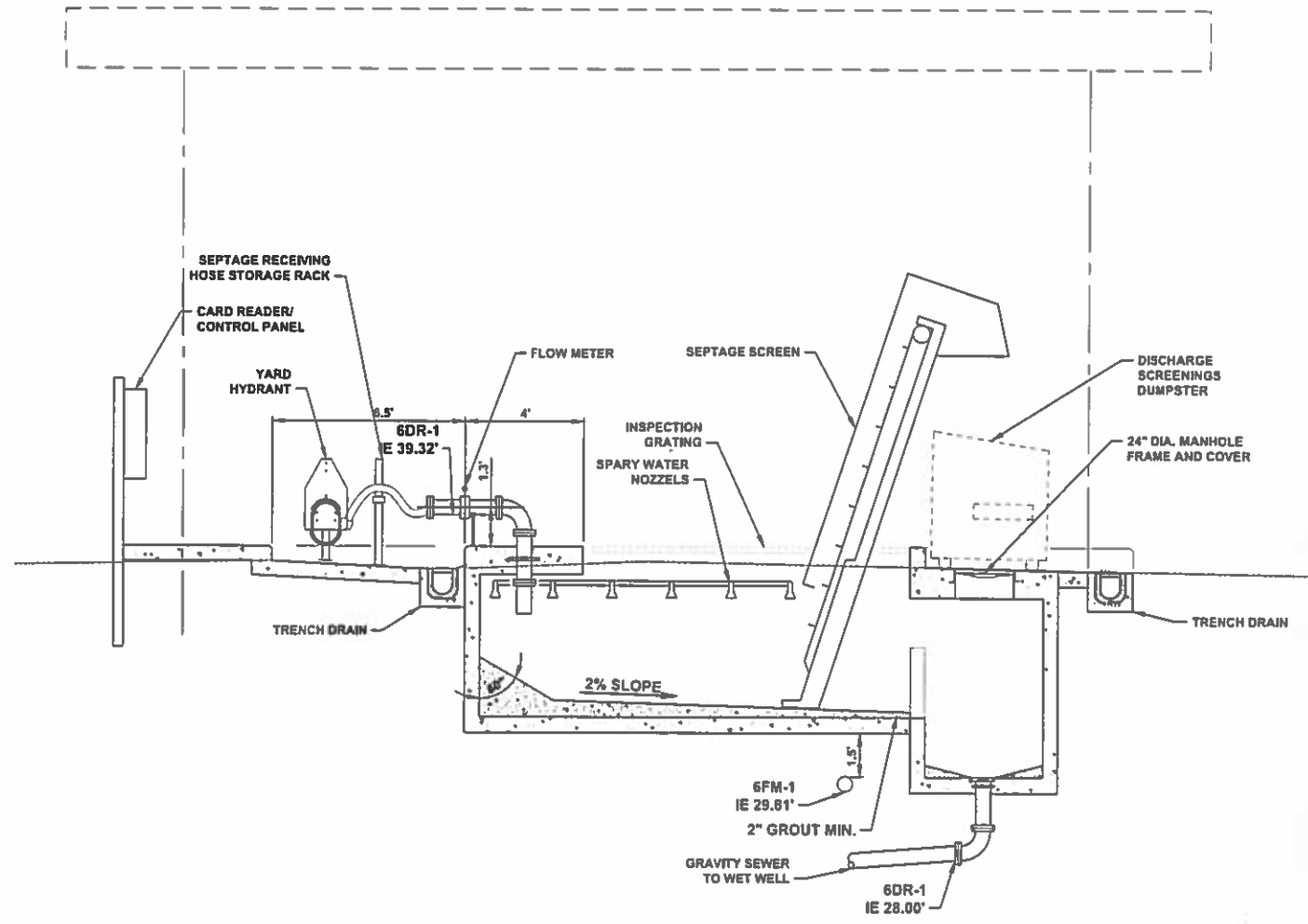
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00193-009-02
DATE:
MARCH 2015
SHEET NO:
M-4

NO.	DESCRIPTION	BY	DATE

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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
 SEPTAGE/ GREASE
 RECEIVING STATION**

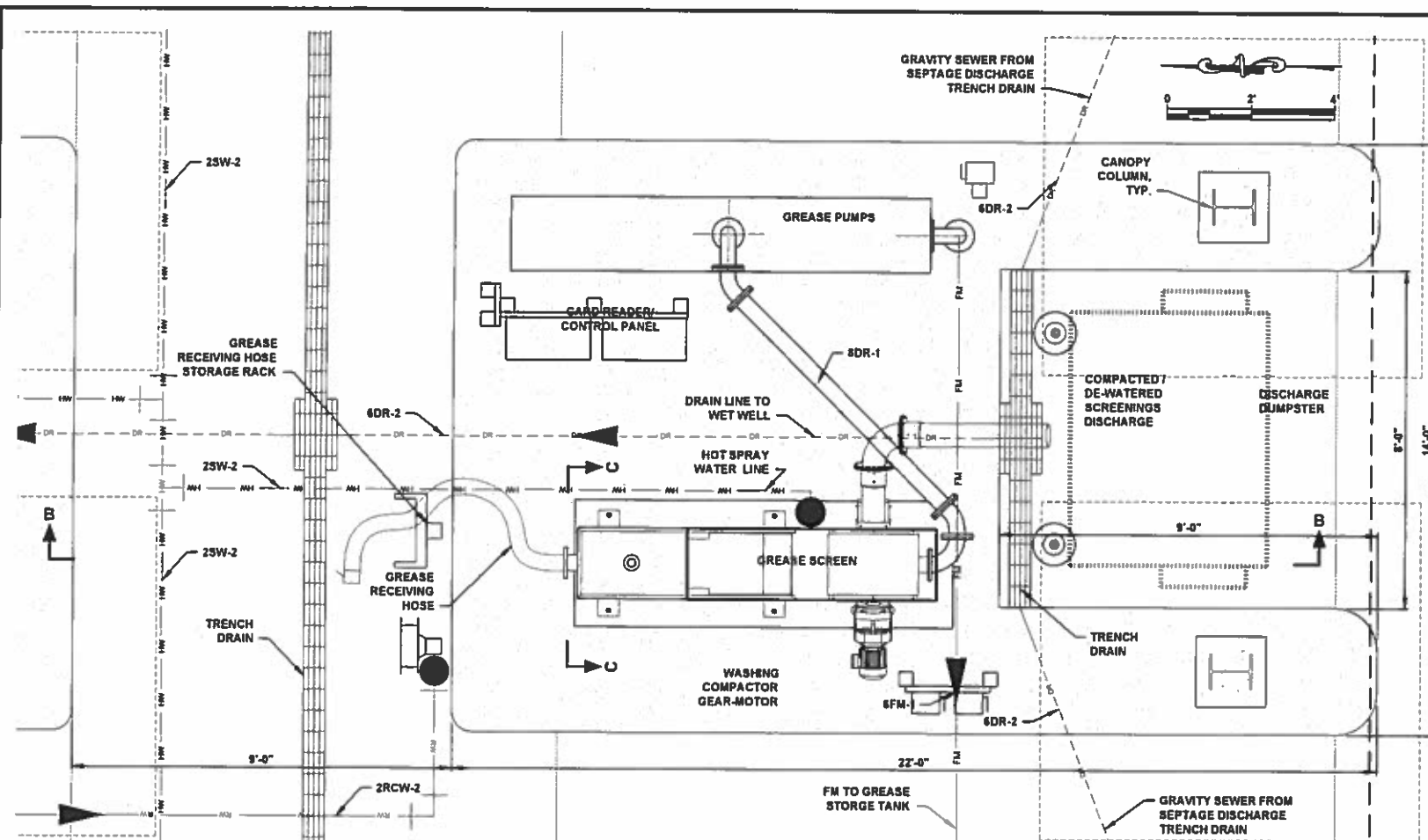
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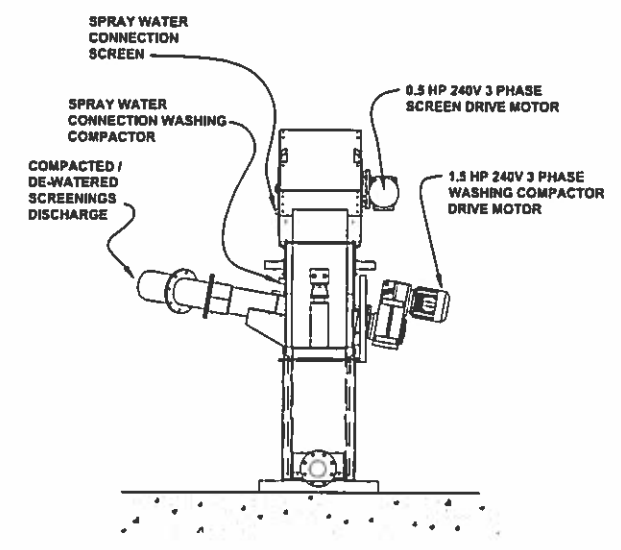
DAVID A. O'CONNOR
 LICENSE
 No. 56803
 DESIGNED
 DRAWN
 CHECKED
 APPROVED
 PROFESSIONAL ENGINEER
 STATE OF FLORIDA

**SEPTAGE RECEIVING STATION
 PLAN AND SECTION**

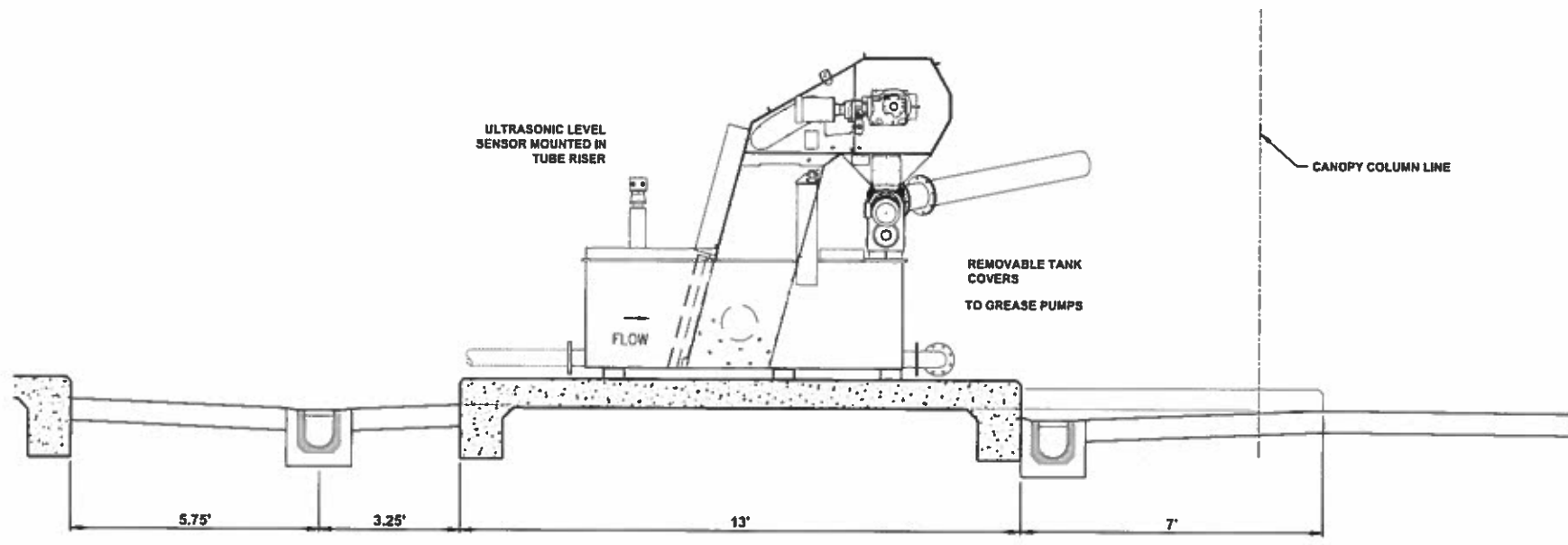
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DATE:	MARCH 2015
SHEET NO.	M-6



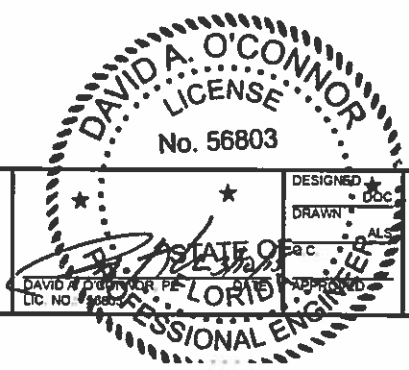
1 PLAN VIEW
C-3 SCALE AS SHOWN



SECTION C-C
NTS



SECTION B-B
NTS



NO.	DESCRIPTION	BY	DATE

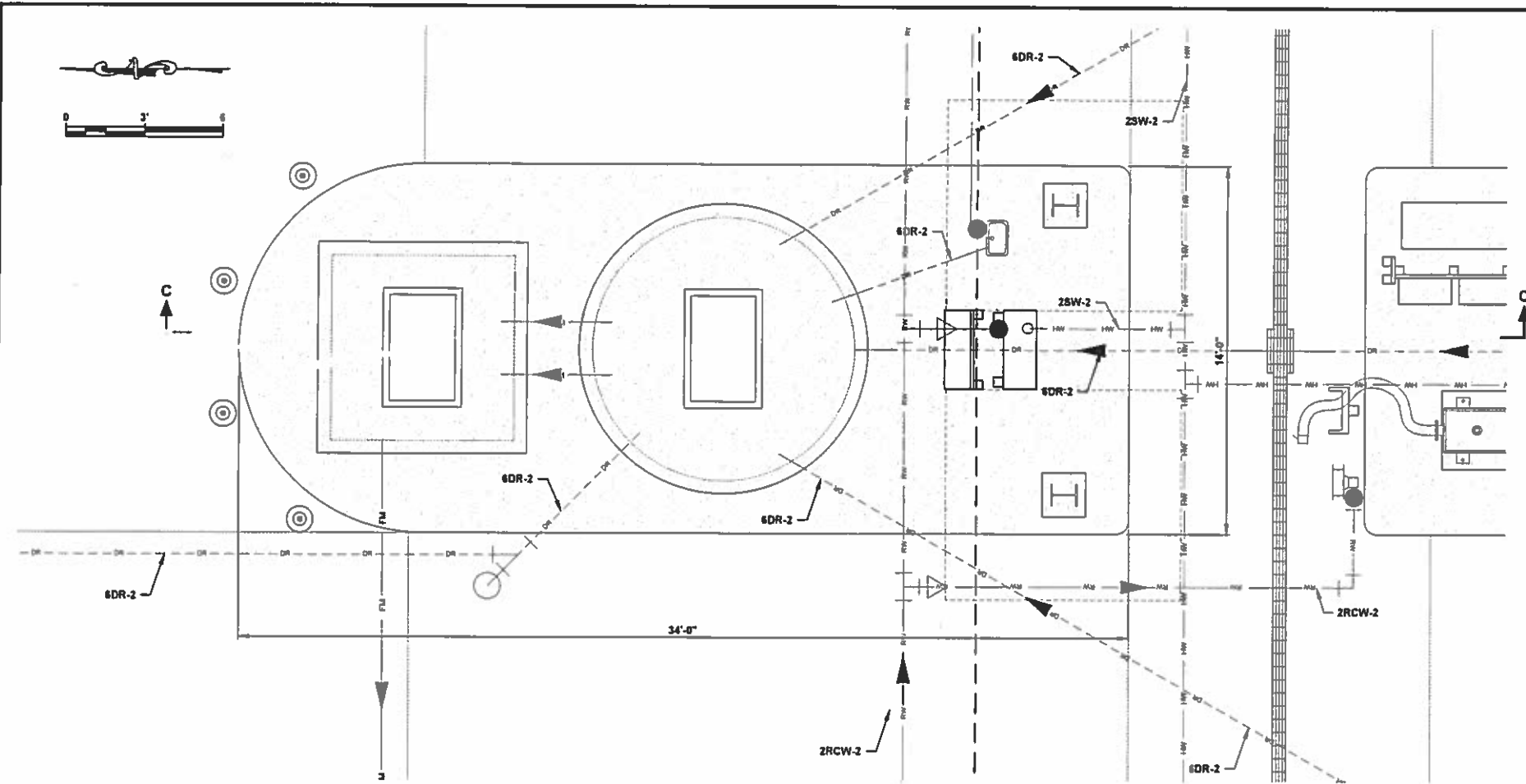
**SEWRF
SEPTAGE/ GREASE
RECEIVING STATION**

MANATEE COUNTY
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UTILITIES DEPARTMENT
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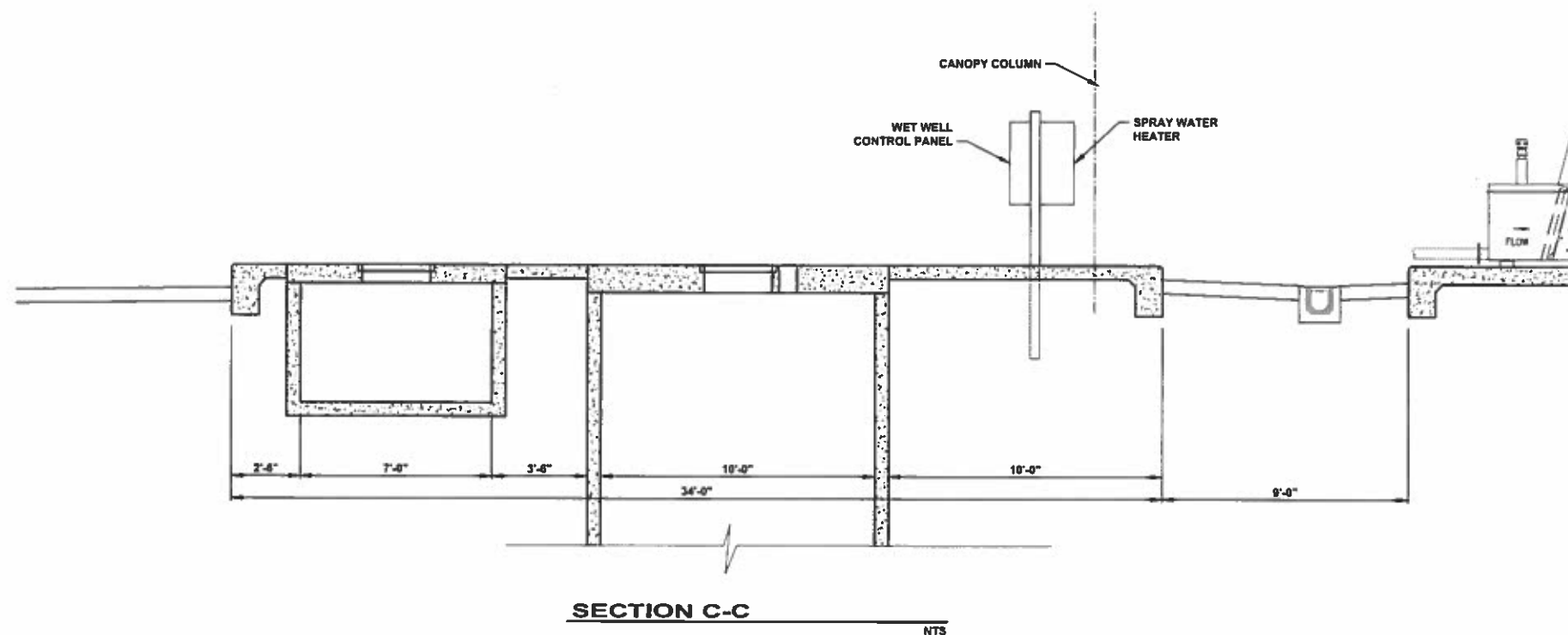
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**GREASE RECEIVING STATION
PLAN AND SECTION**

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



1 PLAN VIEW
C-3 SCALE AS SHOWN



SECTION C-C
NTS

NO	DESCRIPTION	BY	DATE

**SEWRF
SEPTAGE/ GREASE
RECEIVING STATION**

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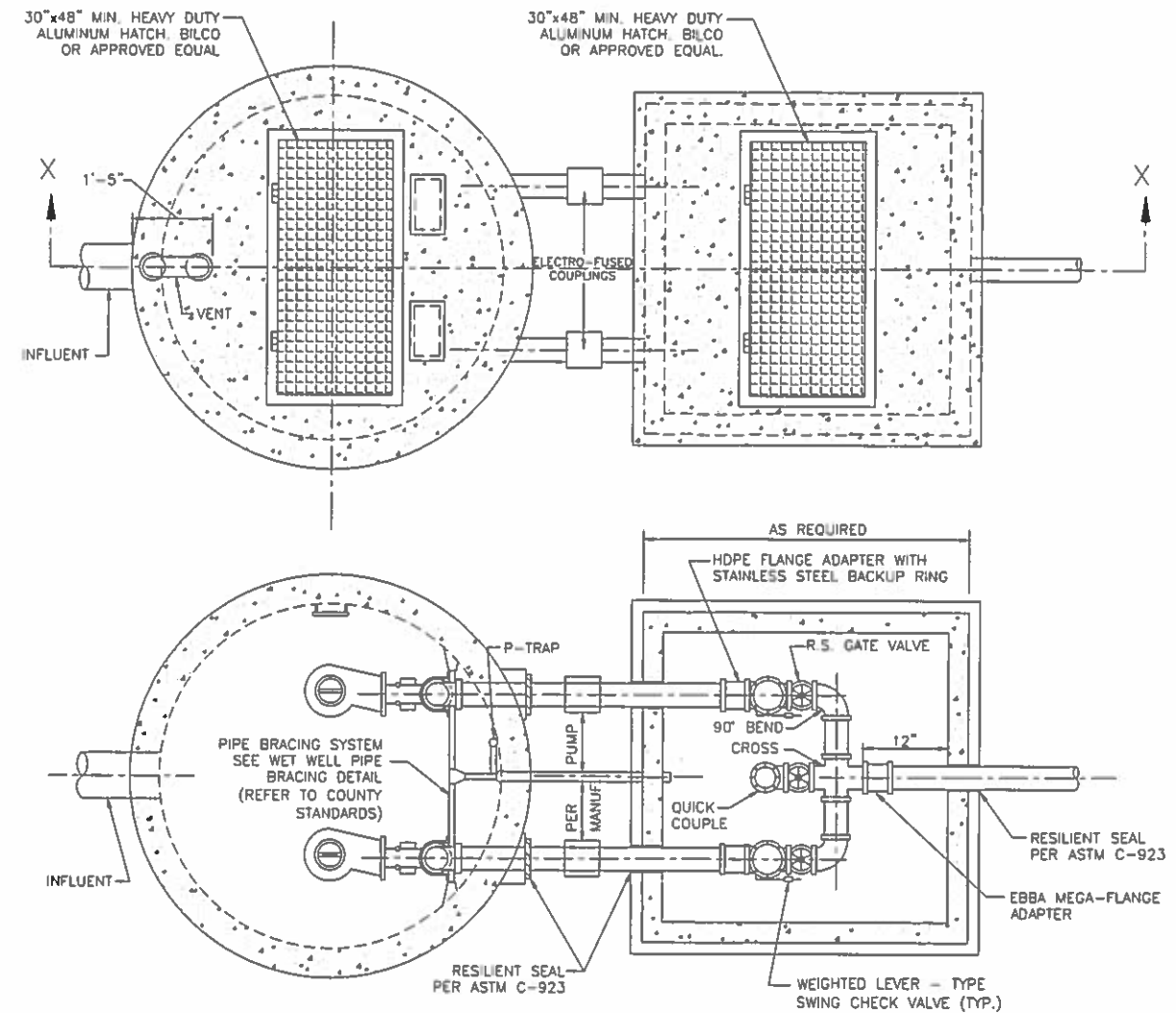
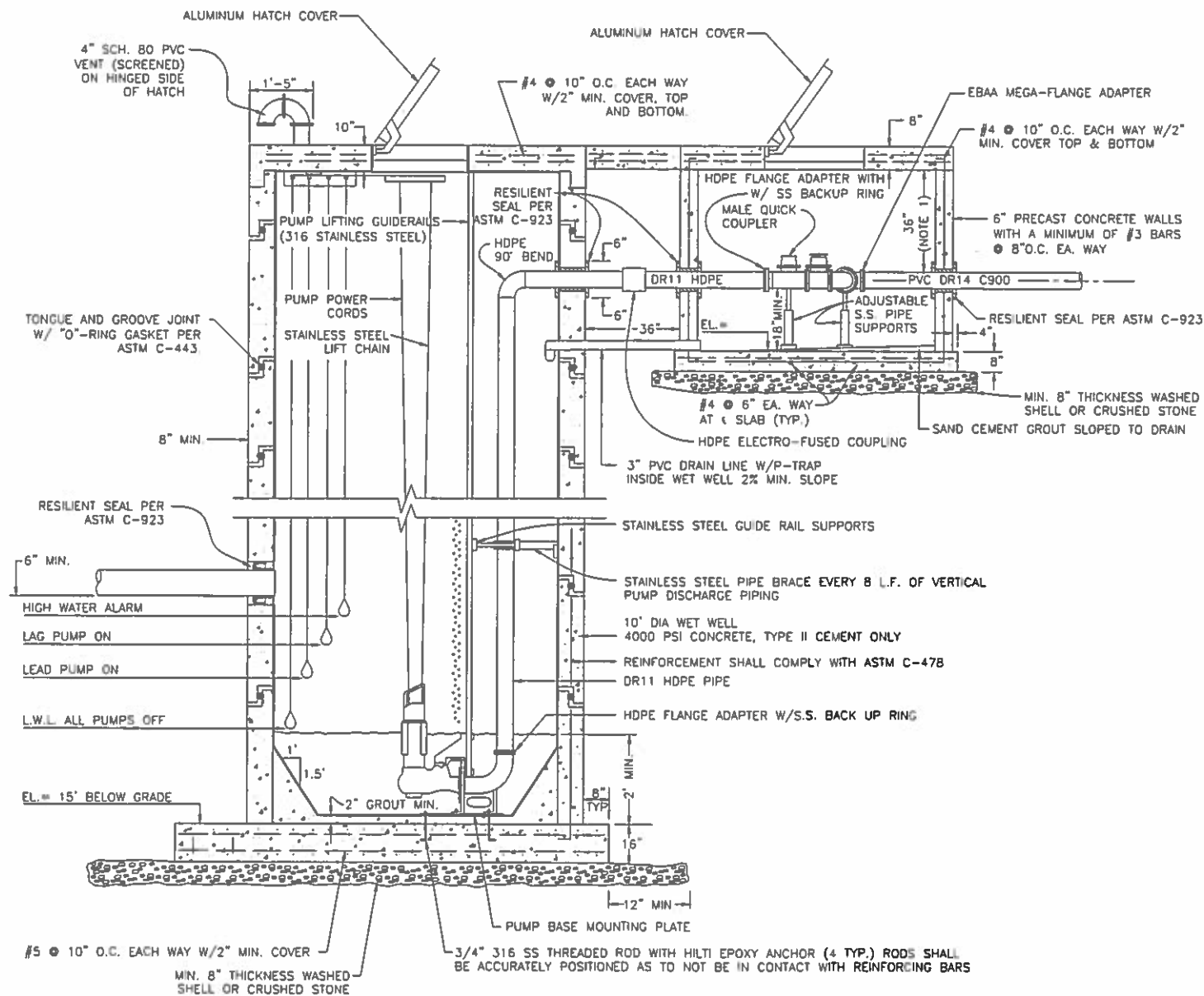
DAVID A. O'CONNOR
LICENSE
No. 56803
STATE OF FLORIDA
PROFESSIONAL ENGINEER

DESIGNED	DOC
DRAWN	ALS
CHECKED	ALS
APPROVED	ALS

**WET WELL AND VALVE VAULT
PLAN AND SECTION**

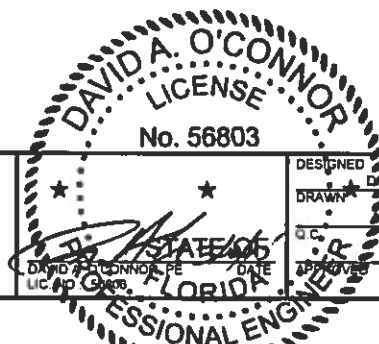
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DATE:	MARCH 2015
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1 PUMPING STATION DETAIL
NTS

NOTE: SEE PLAN SHEETS FOR ORIENTATION.



**SEWRP
SEPTAGE/ GREASE
RECEIVING STATION**

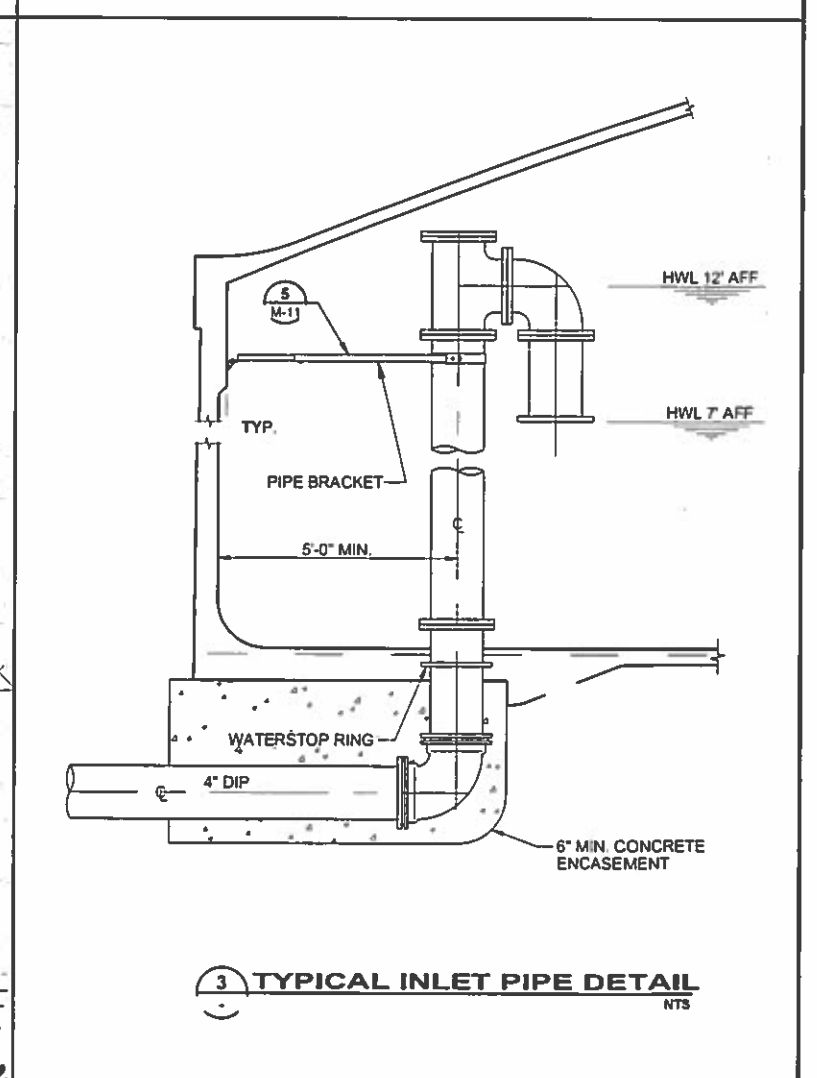
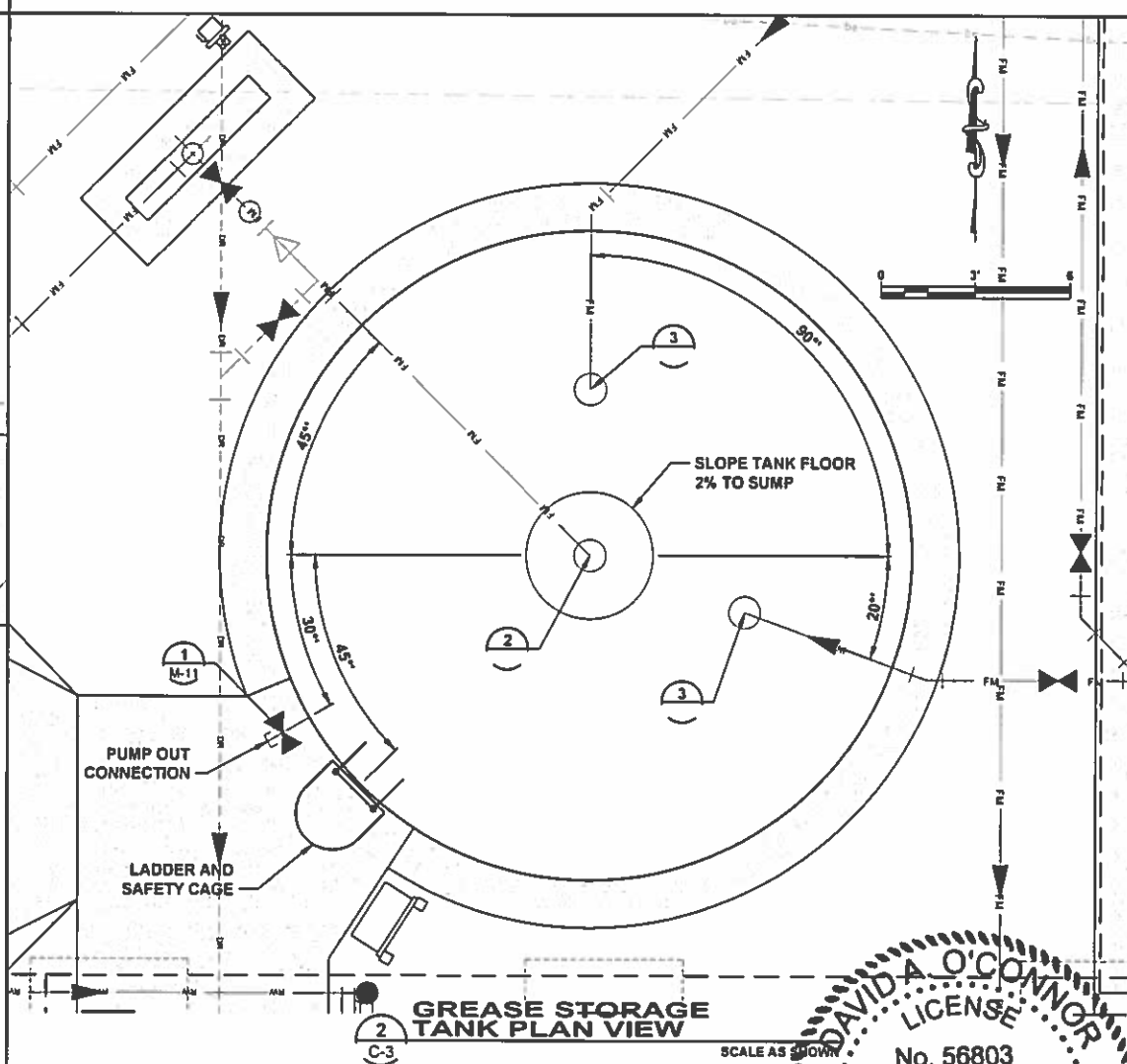
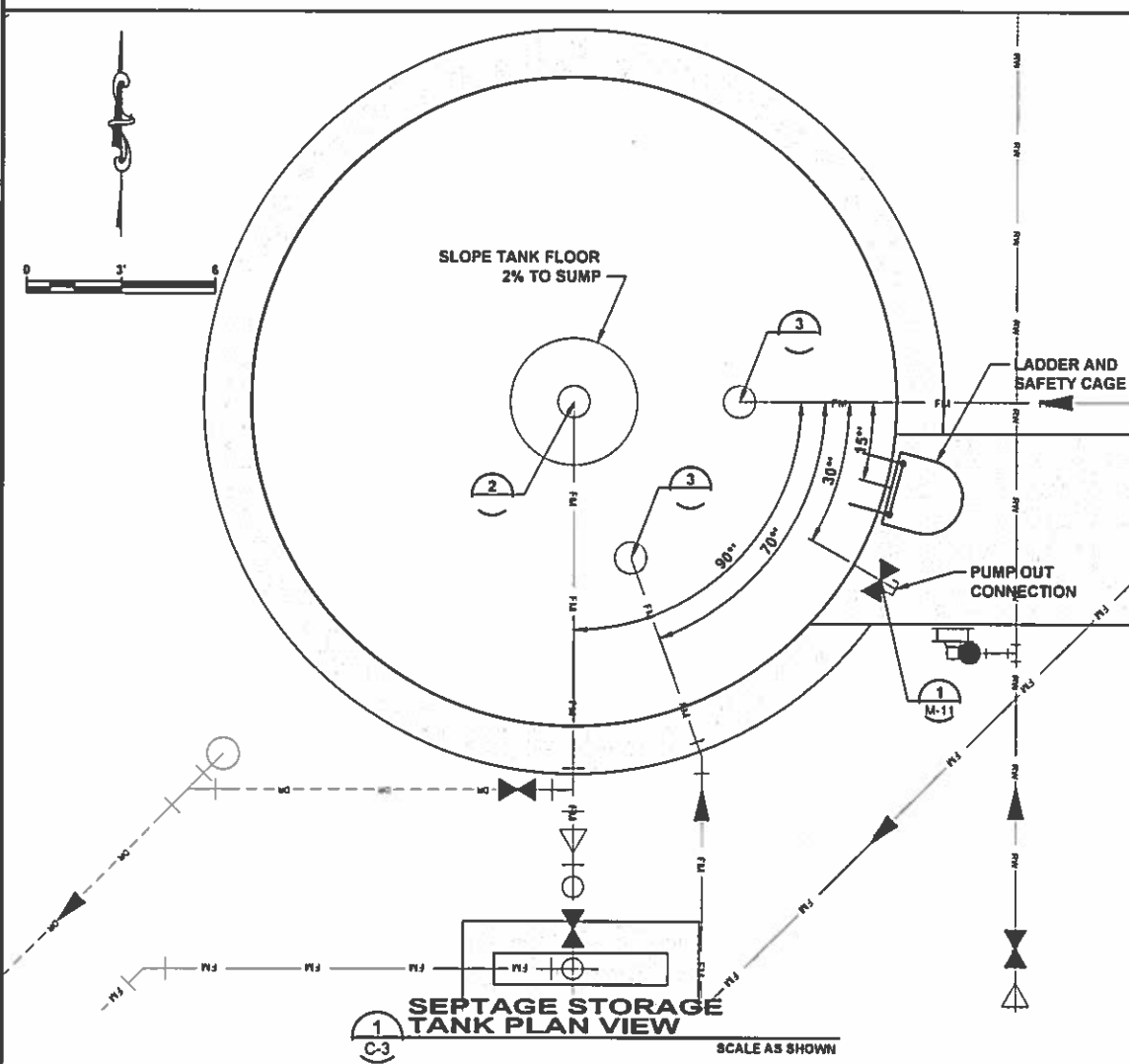
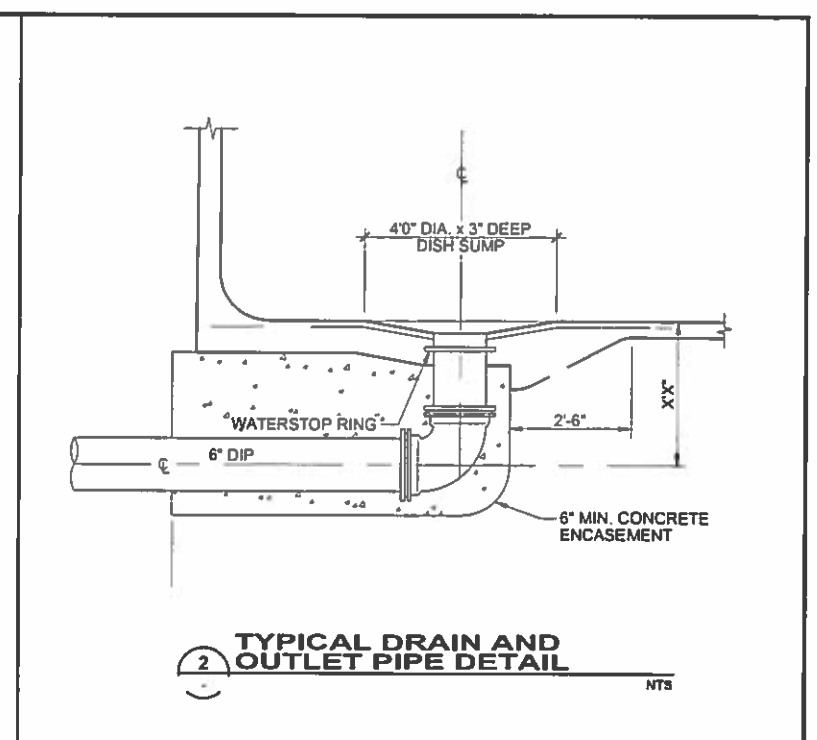
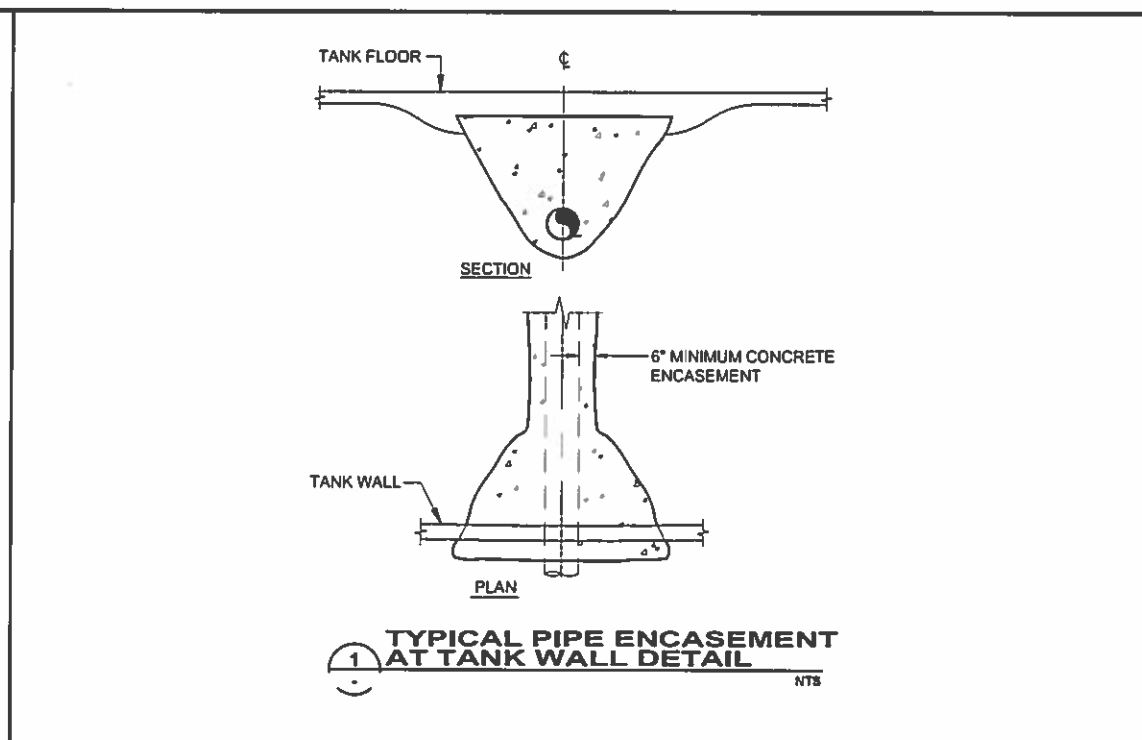
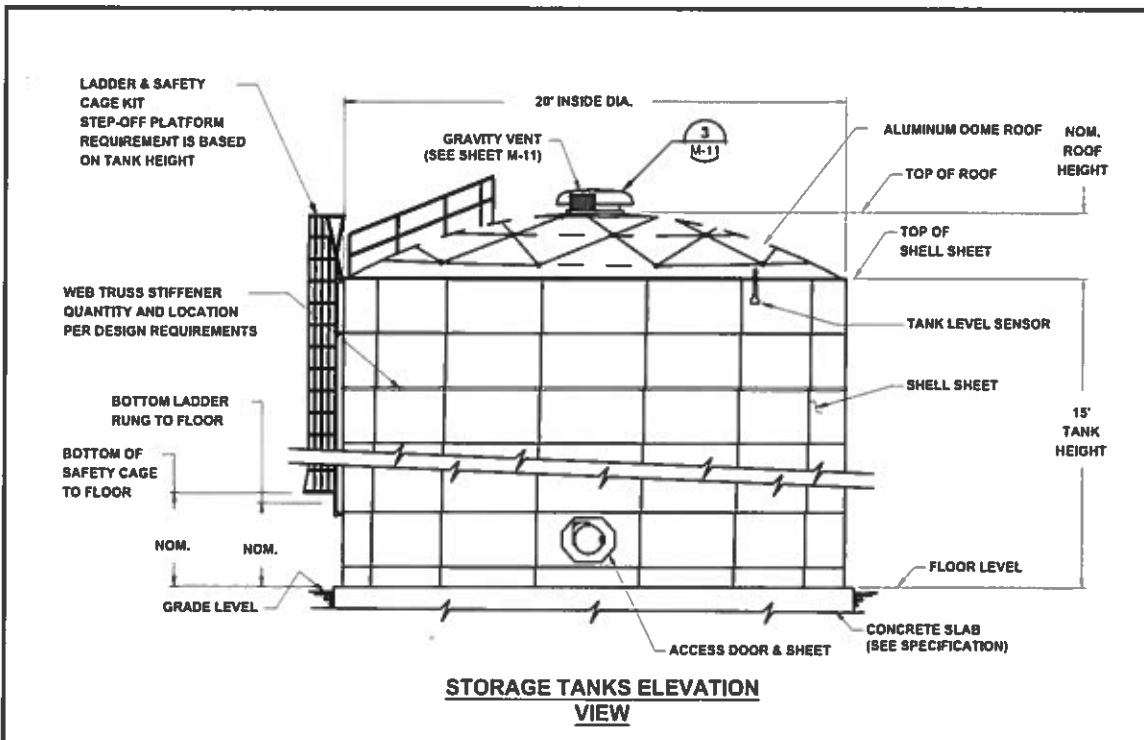
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PUMP STATION DETAILS

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

NO	DESCRIPTION	BY	DATE



NO	DESCRIPTION	BY	DATE

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RECEIVING STATION**

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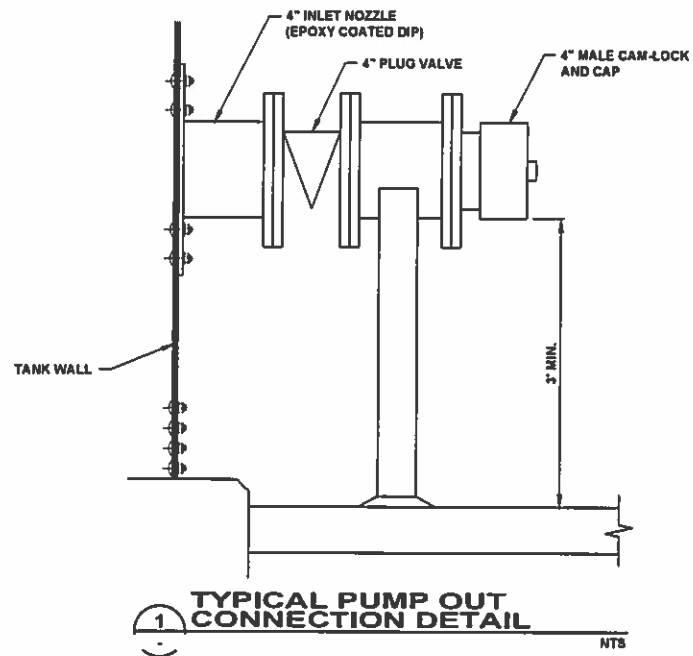
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DAVID A. O'CONNOR
LICENSE
No. 56803
PROFESSIONAL ENGINEER
FLORIDA

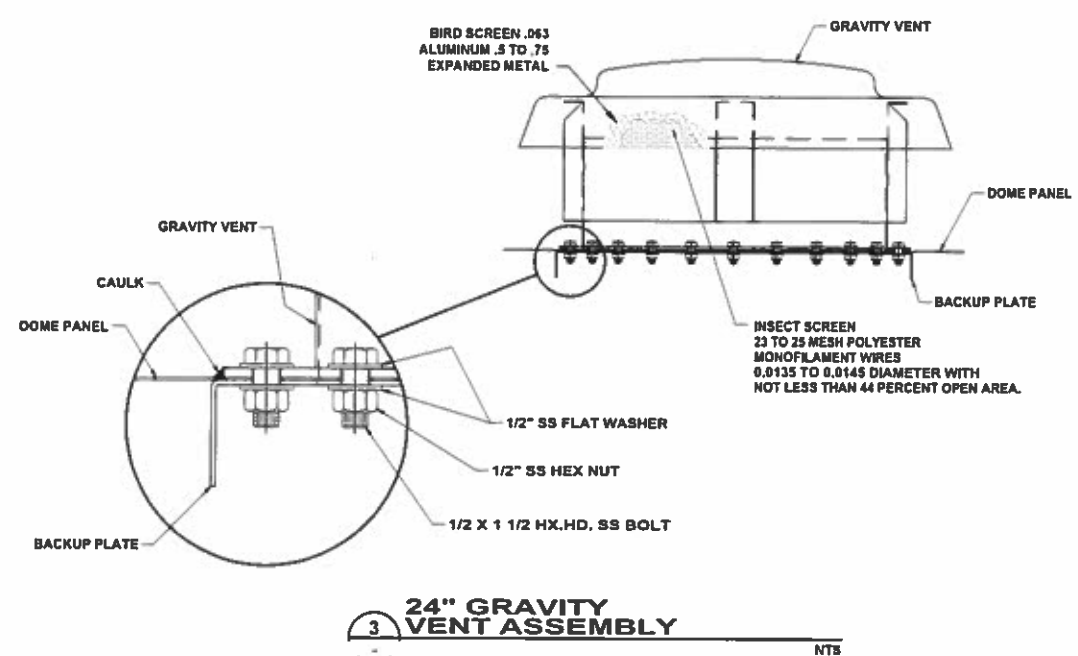
**STORAGE TANKS ELEVATION AND
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PROJECT NO:	00193-009-02
DATE:	MARCH 2015
SHEET NO:	M-10

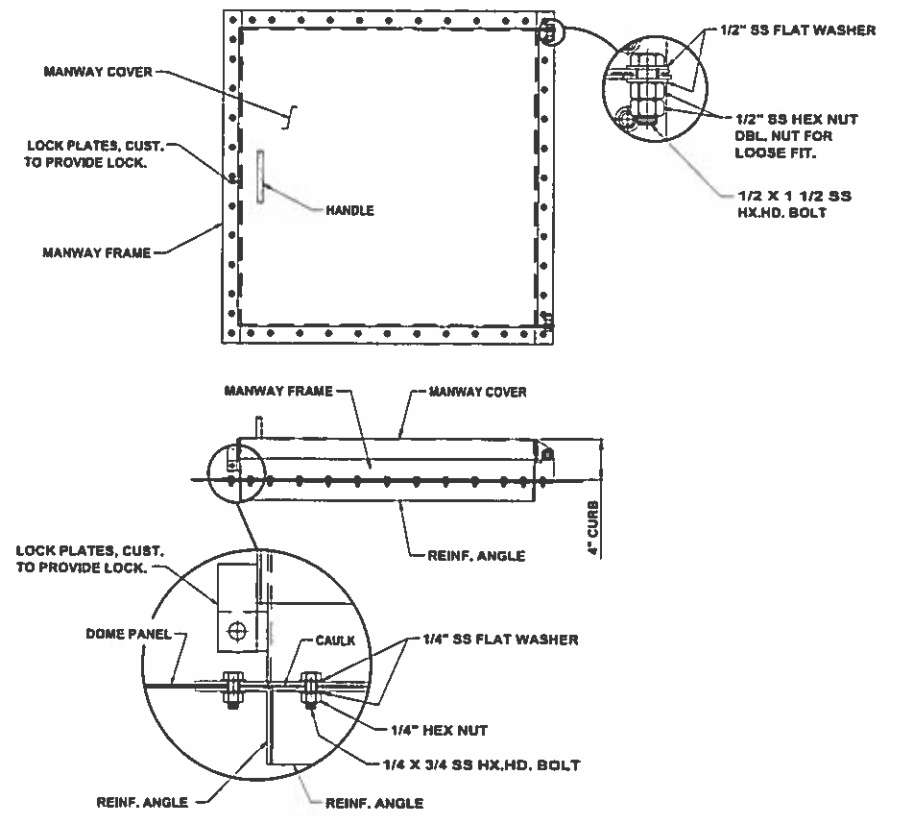
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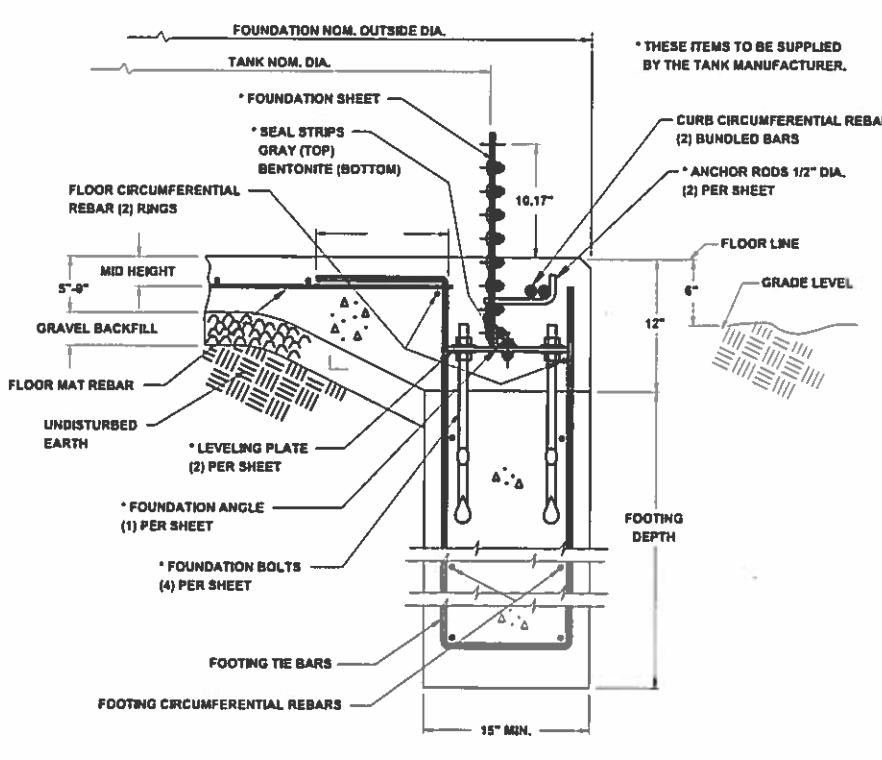
1 TYPICAL PUMP OUT CONNECTION DETAIL NTS



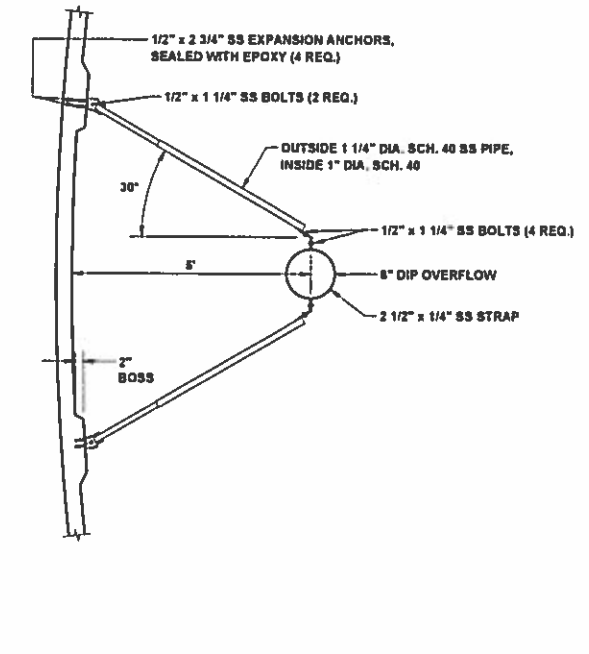
3 24\"/>



2 30\"/>



4 TYPICAL SECTION THROUGH TANK FOOTING NTS



5 PIPE BRACKET NTS



NO.	DESCRIPTION	BY	DATE

**SEWRP
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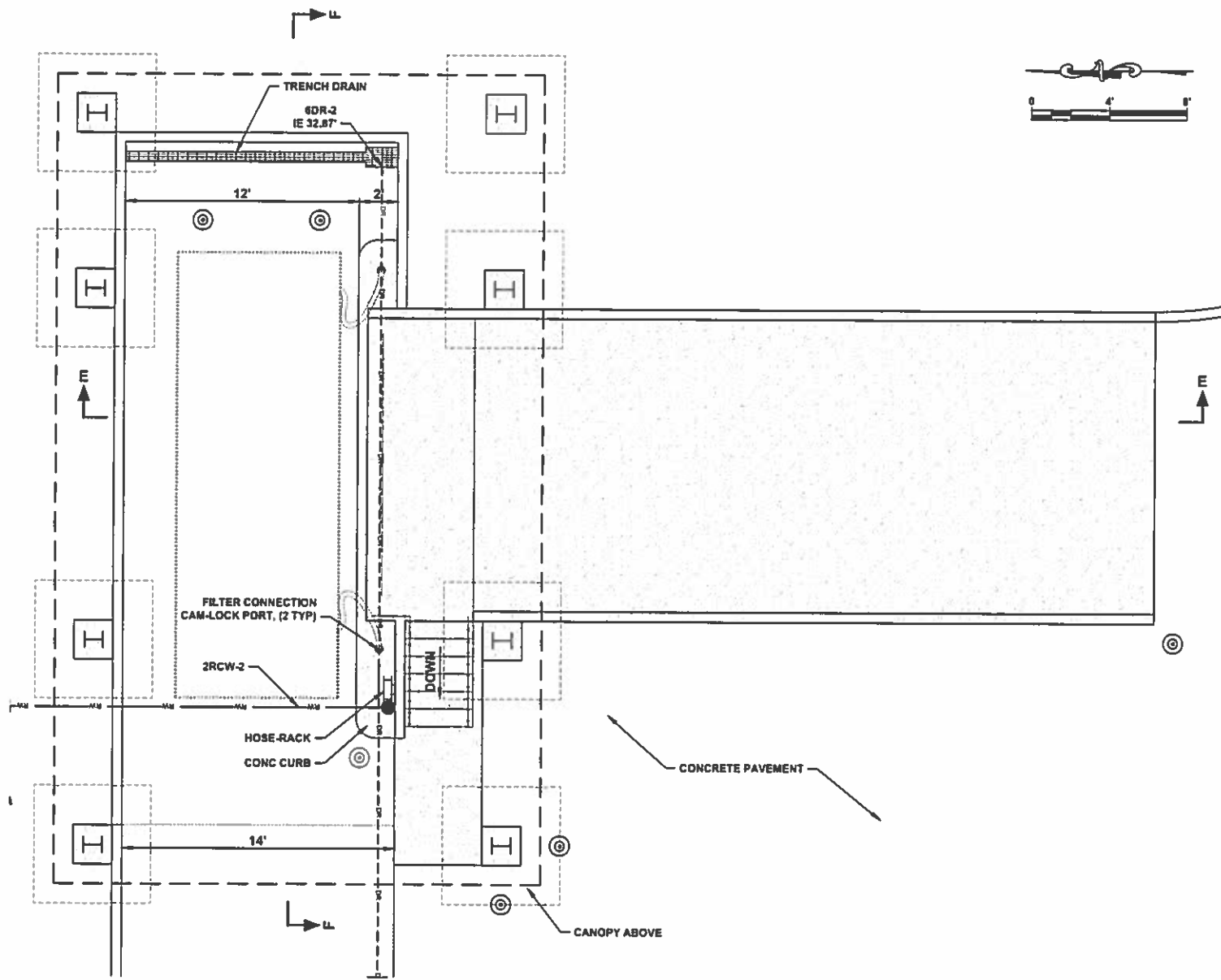
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DESIGNED: DOC
DRAWN: JLS
CHECKED: JLS
APPROVED: JLS

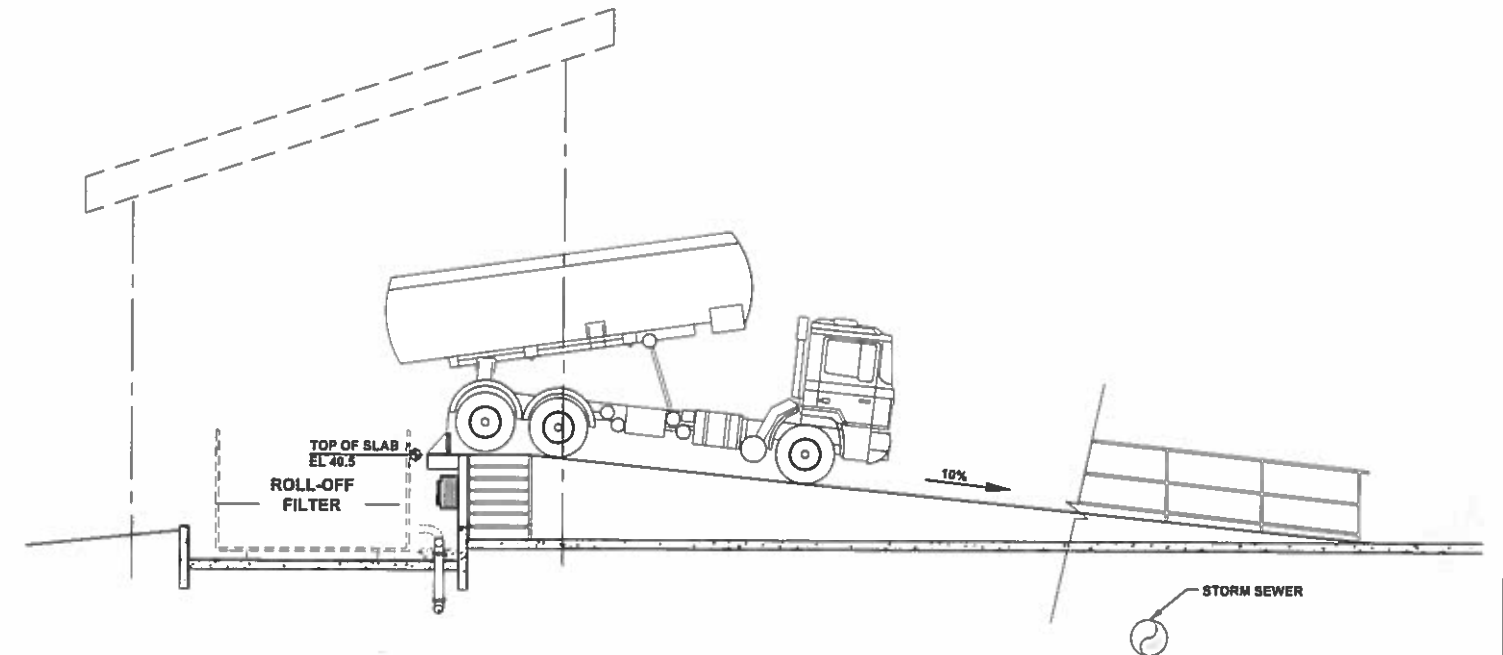
STORAGE TANK DETAILS

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

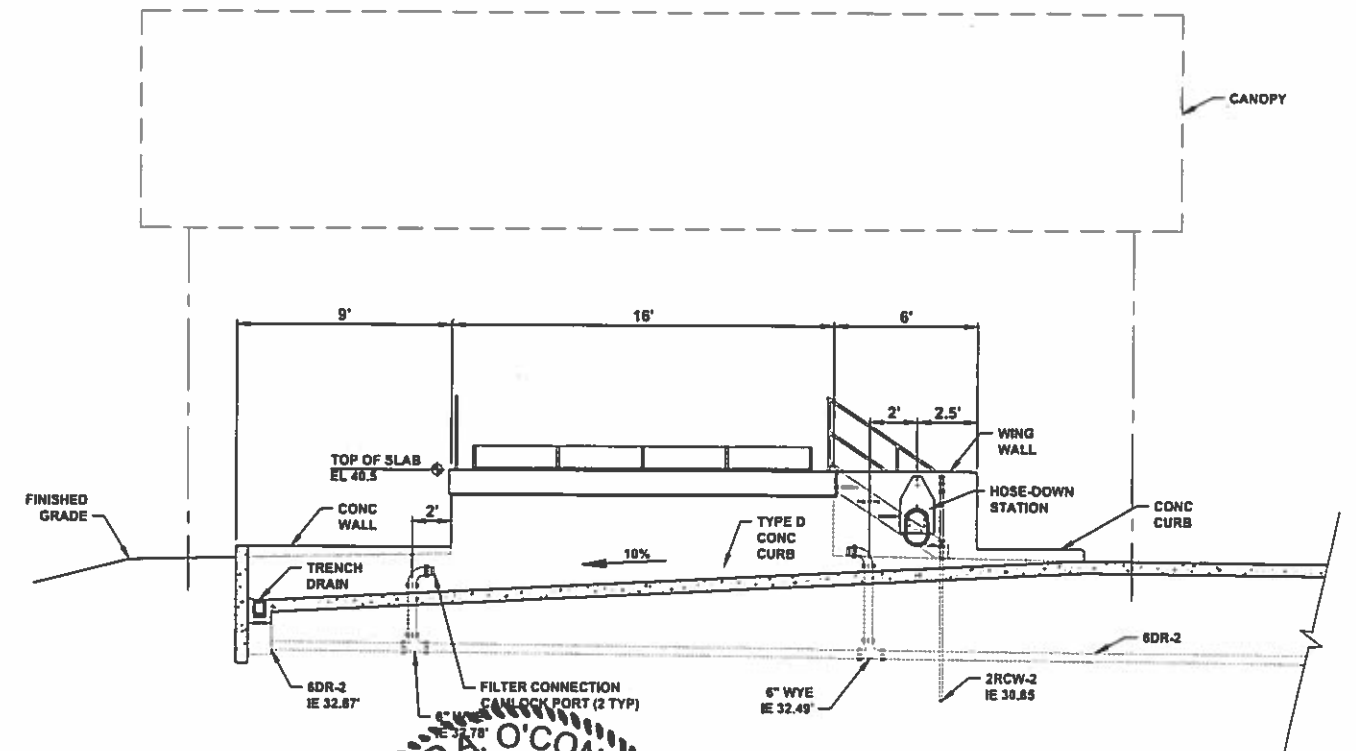
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1 PLAN VIEW
C-3 SCALE AS SHOWN



SECTION E-E
NTS



SECTION F-F
NTS

NO	DESCRIPTION	BY	DATE

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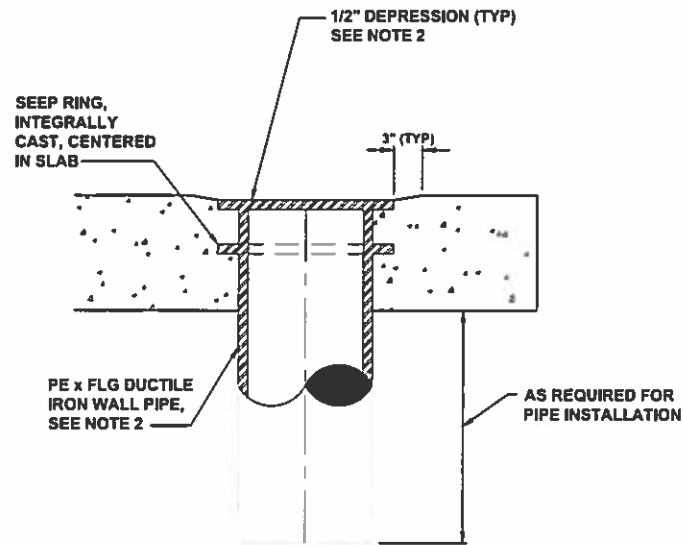
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DESIGNED BY: [Signature]
DRAWN BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]
DAVID A. O'CONNOR, P.E.
LIC. NO. 56803
STATE OF FLORIDA
PROFESSIONAL ENGINEER

**VACUUM TRUCK RECEIVING RAMP
PLAN AND SECTIONS**

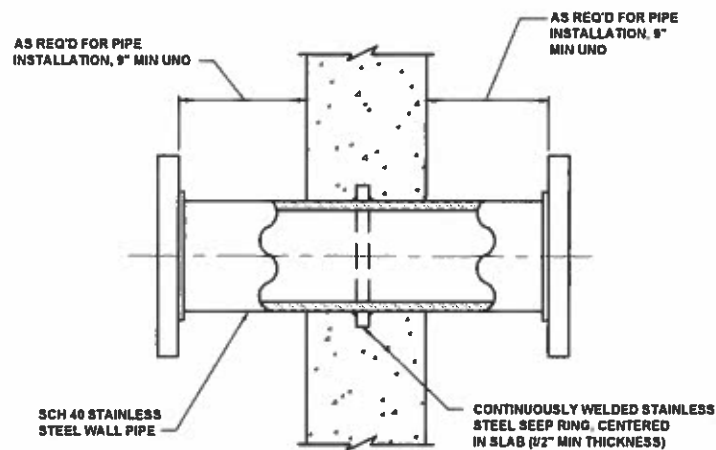
PROJECT NO:
00193-009-02
DATE:
MARCH 2015
SHEET NO:
M-12

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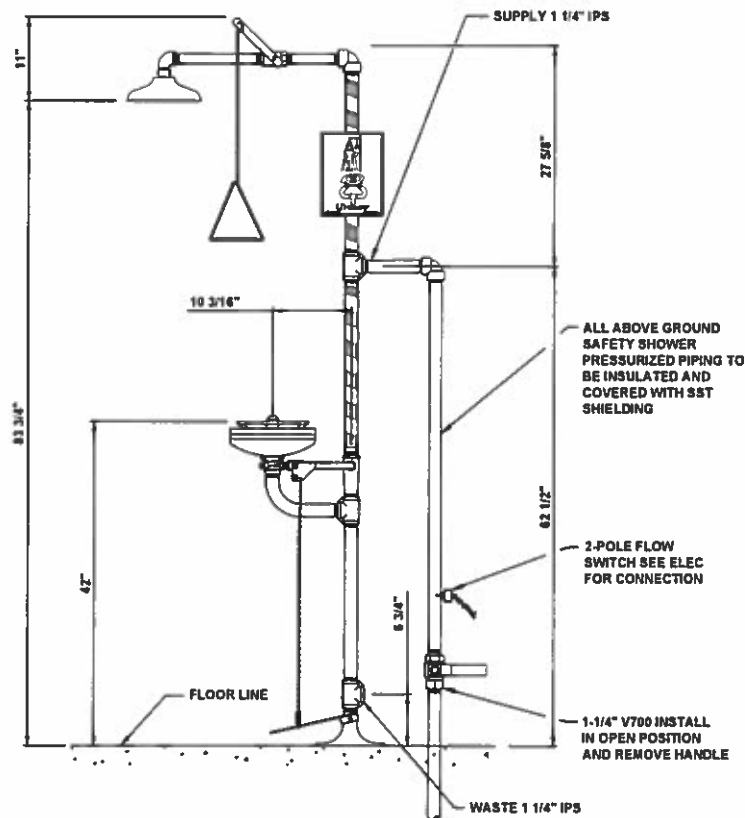
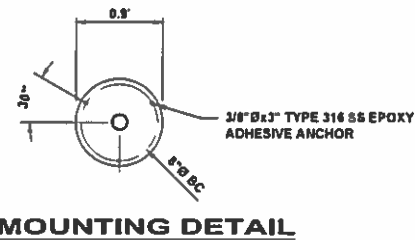
- NOTES:**
1. COAT FLOOR PIPE WITH SPECIFIED PAINT SYSTEM PRIOR TO CONCRETE PLACEMENT.
 2. DRILL AND TAP FLANGE TO RECEIVE THREADED BOLTS.

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



- 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\"/>

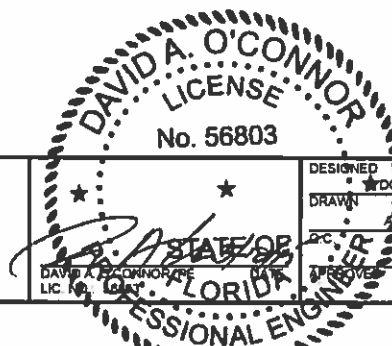
3 EMERGENCY SHOWER AND EYEWASH DETAIL
NTS

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DESIGNED: DOCC
DRAWN: JMS
CHECKED: JMS
APPROVED: JMS

MECHANICAL STANDARD DETAILS

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