

COPYRIGHT 2010 MANATEE COUNTY GOVERNMENT | S:\P\O_Engineering_Shore Util_Eng_Design\Proj\SAK SWR Proj\Site Swr - LS Upgrade\Gen\DWG\GEN\2012 GROUP Adm\General Notes & Legend.dwg 9/23/2011 10:49 AM Bruce Robertson, JTI, ANCH Full breed B (36.00 x 24.00 inches)

GENERAL

- 1. ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: WALTER SOWA, SR. ENGINEERING SPECIALIST. AND CAN BE REACHED AT (941) 708-7450; EXT. 7332
2. SITE VISITS ARE MANDATORY FOR ALL BIDDERS. THESE SITE VISITS CAN BE ARRANGED THROUGH THE SR. ENGINEERING SPECIALIST.
3. ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANATEE COUNTY UTILITY STANDARDS & SPECIFICATIONS, TRANSPORTATION STANDARDS AND/OR FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" UNLESS OTHERWISE INDICATED ON THE PLANS.
4. VERTICAL CONTROL FOR THIS PROJECT WAS ESTABLISHED BY A MINIMUM OF TWO REFERENCE BENCHMARKS DESCRIBED ON THE "THE NATIONAL GEODETIC VERTICAL DATUM OF 1929", (NGVD '29).
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS AND REQUIREMENTS OF ALL PERMITS AND ALL GOVERNING FEDERAL, STATE, AND LOCAL AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS THAT ARE NOT PROVIDED IN THE BID DOCUMENTS, AT NO ADDITIONAL COST TO THE OWNER.
6. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
7. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS ON THE PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH CONSTRUCTION.
8. AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4770 OR THE NATIONAL 811 ONE CALL NUMBER WHEN APPLICABLE FOR UTILITY LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITIES FOR THE POSSIBLE RELOCATION OR THE TEMPORARY MOVEMENT OF ANY EXISTING UTILITIES WITHIN THE RIGHTS-OF-WAY.
9. NO WORK, EXCEPT FOR EMERGENCY TYPE, SHALL BE PERFORMED AFTER 7:00 PM AND BEFORE 7:00 AM. FOR ADDITIONAL PROJECT RESTRAINTS, REFER TO SECTION 01310 OF THE SPECIFICATIONS.

SAFETY

- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE FLORIDA TRENCH SAFETY ACT, 90-96, LAWS OF FLORIDA EFFECTIVE OCTOBER 1, 1990 AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 29 CFR 1926.650, SUBPART P, AS AMENDED. THE CONTRACTOR SHALL INCLUDE IN THE TOTAL BID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS.
11. THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.
12. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
13. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.

ENVIRONMENTAL

- 14. WHEN A BENTONITE SPILL OR FRACK-OUT OCCURS OR THERE IS A LOSS OF RETURN INDICATING EXCESSIVE SEEPAGE OR LOSS OF DRILLING FLUID, DRILLING MUST BE STOPPED UNTIL THE LOCATION OF THE SPILL IS IDENTIFIED. UNDER NO CIRCUMSTANCES WILL DRILLING CONTINUE WHEN A SPILL IS APPARENT.
15. ONCE LOCATED, THE BENTONITE SPILL MUST BE ISOLATED AND SEEPAGE INTO ANY NEARBY WATER BODIES WILL BE BLOCKED DEPENDING ON THE DEGREE OF THE SPILL, THE ISOLATED BENTONITE MUST BE REMOVED MANUALLY OR MECHANICALLY AND DISPOSED OF BY APPROPRIATE MEANS OR REUSED.
16. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY STORM WATER, EROSION, AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE FDP "FLORIDA STORM WATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL". IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS AND TO DITCHES DURING CONSTRUCTION.
17. STOCKPILES SHALL BE PROTECTED AT ALL TIMES BY ON-SITE DRAINAGE CONTROLS WHICH PREVENT EROSION OF THE STOCKPILED MATERIAL. CONTROL OF DUST FROM SUCH STOCKPILES IS REQUIRED, DEPENDING UPON THEIR LOCATION AND THE EXPECTED LENGTH OF TIME THE STOCKPILES WILL BE PRESENT. IN NO CASE SHALL ANY STOCKPILED MATERIAL REMAIN AFTER THIRTY (30) CALENDAR DAYS.
18. STORM WATER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS, AND WHICH MUST BE APPROVED BY THE ENGINEER BEFORE INSTALLATION. THIS WILL BE MAINTAINED TO PREVENT DEGRADATION OF THE WATERS OF THE COUNTY AND STATE.
19. SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OR PREVENT THE TRANSPORT OF SEDIMENT ONTO ADJACENT PROPERTIES, OR INTO EXISTING BODIES OF WATER, MUST BE INSTALLED, CONSTRUCTED, OR IN THE CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS. SUCH SYSTEMS SHALL BE FULLY OPERATIVE BEFORE ANY OTHER DISTURBANCE OF THE SITE BEGINS. EARTHEN STRUCTURES INCLUDING BUT NOT LIMITED TO BERMS, EARTH FILTERS, DAMS OR DIKES SHALL BE STABILIZED AND PROTECTED FROM DRAINAGE DAMAGE OR EROSION WITHIN ONE (1) WEEK OF INSTALLATION.
20. ALL SWALES, DITCHES, AND CHANNELS LEADING FROM THE SITE SHALL BE PROTECTED FROM SILTATION AND EROSION DURING CONSTRUCTION AND BE SODDED WITHIN THREE (3) DAYS OF EXCAVATION.
21. SOIL DISPLACED BY CONSTRUCTION WILL BE REMOVED. EROSION CONTROL SHALL BE IMPLEMENTED IN AREAS WHICH ARE CONSIDERED ENVIRONMENTALLY SENSITIVE. EROSION CONTROL SYSTEMS SHALL BE REQUIRED FOR ALL WORK WITHIN JURISDICTIONAL AREAS. THESE SYSTEMS MAY INCLUDE STAKED HAY BALES, SILT SCREENS, FILTER FABRIC, AND TURBIDITY SCREENS.
22. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.
23. THE CONTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER WETLAND AREAS THAT MAY BE ON OR NEAR THE CONSTRUCTION SITE. ALL WORK IN THE VICINITY OF OPEN WATER AND/OR WETLANDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL REGULATIONS AND/OR PERMITS FOR THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES RESULTING FROM HIS VIOLATION OF ANY REGULATIONS OR PERMIT CONDITIONS.
24. FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.
RIGHT-OF-WAY
25. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
26. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE AND RESTORE PROPERTY CORNER MONUMENTS, PINS, AND LANDMARKS THAT MAY BE DISTURBED BY CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
27. THE CONTRACTOR, PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHTS-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION "MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES". A TRAFFIC CONTROL PLAN SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.
28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED STORM WATER STRUCTURES, PIPING, ENTRANCE PIPE AND HEADWALLS WHETHER SHOWN ON THE PLANS OR NOT. THE HEADWALLS SHALL BE REPLACED IN ACCORDANCE WITH F.D.O.T. STANDARDS.
29. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH IN THE FIELD THE RIGHT-OF-WAY LINES, BASE LINES, BENCH MARKS (ELEV.), CENTER LINES, AND STATIONING AS REQUIRED TO CONSTRUCT THIS PROJECT.
30. THE CONTRACTOR SHALL COORDINATE THE CUTTING OF DRIVEWAYS WITH THE PROPERTY OWNER PRIOR TO CUT. ALL

DRIVEWAYS WILL BE IN PASSABLE CONDITION AT THE END OF THE WORK DAY AND FULLY RESTORED PER SECTION 02575.

- 31. A RIGHT OF ENTRY AGREEMENT SHALL BE OBTAINED BY THE PROJECT MANAGER FROM THE PROPERTY OWNER BEFORE ANY DRIVEWAY CONSTRUCTION WORK IS DONE OUTSIDE OF THE RIGHT-OF-WAY OR EASEMENT.

UTILITIES

- 32. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA AND WHICH HAVE NOT BEEN LOCATED OR IDENTIFIED. MAY NOT BE IN THE EXACT LOCATION SHOWN OR RELOCATED SINCE THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES STRUCTURES AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) THAT MAY AFFECT HIS WORK. ALL EXISTING UTILITIES TO BE EXTENDED, CROSSED OR CONNECTION POINTS SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND ELEVATION. ANY DISCREPANCIES OR CONFLICTS FOUND SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION.
33. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, MAIL BOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR FACILITY IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED ITEM DUE TO HIS CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER THAN PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
34. THE CONTRACTOR SHALL USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED OR OFFERED BY FLORIDA POWER AND LIGHT TO PREVENT UNDERMINING OF POWER POLES DURING CONSTRUCTION. IF HOLDING OF POWER POLES IS RECOMMENDED OR REQUIRED BY THE UTILITY, THE CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE UTILITY AND BEAR ALL RELATED COSTS.
35. ANY TEMPORARY SHUTDOWNS FOR MODIFICATIONS OF EXISTING UTILITY SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTIONS SHALL BE KEPT TO A MINIMUM AND SHALL BE COORDINATED WITH AND APPROVED BY THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. IT IS NOTED THAT TEMPORARY SHUTDOWNS MAY BE RESTRICTED TO CERTAIN HOURS AT ANY TIME OF THE DAY OR NIGHT AND WILL BE COMPLETED AT NO ADDITIONAL COST TO THE OWNER.
36. FOR WORK BEING DONE ON EXISTING SANITARY SEWER LINES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE FLOW OF ALL SEWAGE DURING CONSTRUCTION, WHICH MAY REQUIRE BY-PASS PUMPING AND/OR PUMPER TRUCKS. THE CONTRACTOR SHALL SUBMIT A DETAILED BY-PASS PUMPING PLAN PER SECTION 02720.

RESTORATION

- 37. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
38. ALL DISTURBED GRASSED AREAS SHALL BE SODDED OR SEEDED UNLESS OTHERWISE INDICATED. THE TYPE OF SOD USED TO REPLACE OWNER MAINTAINED AREAS IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER.
39. ALL CONCRETE THRUST BLOCKS INSTALLED FOR TESTING PURPOSES AND NOT REQUIRED FOR THE OPERATION OF THE PIPELINE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR, PRIOR TO FINAL ACCEPTANCE, AT NO ADDITIONAL COST TO THE OWNER.
40. ASPHALT DRIVES THAT ARE CUT SHALL BE RESTORED PER SECTION 02513.
41. CONCRETE DRIVEWAYS OR SIDEWALKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO THE CURRENT EDITIONS OF THE F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN, SECTION 522, AND SECTION 310 OF THE F.D.O.T. DESIGN STANDARDS.

- 42. WHENEVER A PERMANENT ROADWAY SURFACE IS NOT PLACED IMMEDIATELY AFTER BACKFILLING AND COMPACTION OF THE NEWLY INSTALLED PIPE LINE IN AREAS WHERE TRAFFIC MUST PASS, THE CONTRACTOR SHALL INSTALL A TEMPORARY SURFACE CONSISTING OF NINE INCHES OF COMPACTED LIME ROCK BASE AND A COAT OF ASPHALT EMULSION. PERMANENT ROADWAY REPAIR SHALL BE PERFORMED A MAXIMUM OF TWENTY-ONE CALENDAR DAYS AFTER THE INITIAL OPEN CUTTING.
43. RESTORATION OF CURBS, DRIVEWAYS, SIDEWALKS, AND PLACEMENT OF SOD SHALL BE COMPLETED WITHIN FORTY-FIVE CALENDAR DAYS OF INITIAL DISTURBANCE, OR TWENTY-ONE CALENDAR DAYS OF SUBSTANTIAL COMPLETION, WHICHEVER OCCURS FIRST.

CONSTRUCTION

- 44. THE EXHAUST SYSTEM OF ALL GASOLINE AND DIESEL ENGINES SHALL BE EQUIPPED WITH MUFFLERS THAT MEET THE EQUIPMENT MANUFACTURER'S REQUIREMENTS FOR NOISE SUPPRESSION. THE CONTRACTOR SHALL INSTALL NOISE ABATEMENT Baffles POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES, AS APPROVED BY THE ENGINEER.
45. NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEEPED DAILY AS PART OF DAILY CLEAN UP.
46. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
47. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.
48. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA.
49. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM.
50. ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN THE CONTRACT DOCUMENT AND SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS AND PROFILES.
51. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.
52. ALL PIPE AND FITTINGS SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND ALL PIPE JOINTS SHALL BE RESTRAINED WHERE REQUIRED.
53. ALL FITTINGS FOR PRESSURE CLASS-RATED PIPE SHALL BE RESTRAINED DUCTILE IRON. RESTRAINED LENGTHS OF PIPE SHALL ADHERE TO THE REQUIREMENTS AS SHOWN ON THE DETAIL SHEETS.
54. WHERE IT IS NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S MAXIMUM ALLOWABLE RECOMMENDED DEFLECTION.
55. ALL PIPE LENGTHS ARE PLUS OR MINUS AND MAY BE ADJUSTED IN THE FIELD AS REQUIRED. PIPE MEASUREMENTS ARE TO CENTER OF STRUCTURES OR FITTINGS.
56. ALL ROCKS OR STONES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN TWO INCH DIAMETER.
57. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
58. ALL PENETRATION OF EXISTING STRUCTURES SHALL BE BY THE MECHANICAL ROTARY CORE BORING METHOD.
59. ALL CONCRETE PENETRATED OR DISTURBED SHALL BE COATED WITH TWO COATS OF EPOXY.
60. THE CONTRACTOR, PRIOR TO ANY TEMPORARY WATER SHUT-OFFS DURING WATER MAIN TIE-IN, ETC., SHALL NOTIFY THE AFFECTED RESIDENTS BY POSTING INFORMATIONAL SIGNS IN THE NEIGHBORHOOD AT LEAST TWO DAYS (48 HRS) PRIOR TO THE WATER SHUT-OFF. REFERENCE SECTION 01580, PARAGRAPH 1.03 OF THE SPECIFICATIONS. WHEN FEASIBLE, "DOOR HANGERS" SHALL BE DELIVERED TO AFFECTED RESIDENCES AT LEAST TWO DAYS (48 HRS) PRIOR TO WATER SHUT-OFF. FOR LARGE PROJECTS WITH HUNDREDS OF HOMES AFFECTED, THE CONTRACTOR SHALL ALSO MAKE EXTENSIVE USE OF THE MEDIA AND SHALL HAVE PRIOR CONTACT WITH HOMEOWNER'S ASSOCIATIONS. WRITTEN NOTIFICATIONS SHALL ALSO BE FAXED TO THE TAMPA TRIBUNE, BRADENTON HERALD, SARASOTA HERALD TRIBUNE, WBRD RADIO, EMERGENCY COMMUNITY CENTERS, INSPECTIONS, WATER TREATMENT PLANT, WATER MANAGER, HELPLINE, CUSTOMER SERVICE, AND THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT.
61. ALL NEW PIPE LINES SHALL BE PIG CLEANED (4" AND LARGER), FLUSHED, PRESSURE TESTED, DISINFECTED AND CERTIFIED PRIOR TO TIE-INS TO EXISTING FACILITIES. THE CONTRACTOR WILL BE ALLOWED TO USE TEMPORARY PLUGS FOR PIG CLEANING AND PRESSURE TESTING.
62. ALL TEST POINT PIPING SHALL BE CUT LOOSE FROM THE CORPORATION STOP AND COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR PRIOR TO FINAL ACCEPTANCE. A CORPORATION STOP PLUG SHALL BE INSTALLED AND THE CORPORATION STOP SHALL REMAIN IN PLACE.

- 63. ALL EXISTING MAINS THAT ARE BEING REPLACED SHALL BE ABANDONED IN PLACE UPON ACCEPTANCE AND ACTIVATION OF THE NEW MAINS. ABANDONED MAINS SHALL BE CUT, FILLED WITH GROUT, AND CAPPED. REFER TO SECTION 02064 OF THE SPECIFICATIONS FOR GROUTING OF ABANDONED PIPE.
64. WATER MAINS CROSSING OVER OR UNDER SANITARY SEWERS, FORCE MAINS, AND RECLAIMED WATER LINES SHALL BE LAID PER CURRENT EDITION OF "10 STATE STANDARDS" AND MANATEE COUNTY UTILITY STANDARDS UNLESS NOTED OTHERWISE ON THE PLANS.
65. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.
66. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH SECTION 14 IN THE CURRENT MANATEE COUNTY UTILITY STANDARDS AT NO COST TO THE OWNER. RECORD DRAWINGS SHALL BE SIGNED & SEALED BY A SURVEYOR CURRENTLY LICENSED BY THE STATE OF FLORIDA. ALL RECORD DRAWING INFORMATION REQUIREMENTS IN SECTION 14 SHALL BE STRICTLY ENFORCED. A COPY OF SECTION 14 WILL BE PROVIDED UPON REQUEST.

CONTACTS

MANATEE COUNTY PUBLIC WORKS DEPT. WAYNE TROXLER, P.E. 1022 26TH AVENUE EAST BRADENTON, FL. 34208 (941) 708-7450 EXT. 7650 FAX: (941) 708-7415
VERIZON FLORIDA INC. JOHN PLOTT 1701 RINGLING BLVD. SARASOTA, FL. 34236 (941) 906-6707 FAX: (941) 906-6706 John.Plott@verizon.com
FLORIDA POWER & LIGHT GREG COKER 1253 12TH AVENUE EAST PALMETTO, FL 34221 (941) 723-4430 FAX: (941) 723-4444 EMERGENCY: 1-800-4-OUTAGE Greg.Coker@fpl.com
MANATEE COUNTY HEALTH DEPT. HARRY MESSICK 410 6TH AVENUE EAST BRADENTON, FL. 34208 (941) 748-0747 EXT. 1355 FAX: (941) 750-9364 SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT SARASOTA SERVICE OFFICE DARYL R. FLATT, P.E. 6750 FRUITVILLE ROAD SARASOTA, FL. 34240 (941) 377-3722 FAX: (941) 373-7660
FLORIDA GAS TRANSMISSION SAFETY HARBOR TEAM 7804 ANDERSON RD. TAMPA, FL. 33634 CHRIS LEE (813) 466-3327 CELL : (727) 639-7512
DEPARTMENT OF ENVIRONMENTAL PROTECTION STEPHANIE BARIOS 13051 N. TELECOM PKWY TEMPLE TERRACE, FL 33637 PHONE: (813) 632-7600, EXT. 408 FAX: (813) 632-7662
BRIGHT HOUSE NETWORKS TOM WRIGHT 5413 E. STATE ROAD 55 BRADENTON, FL. 34208-6435 (941) 748-3816 EXT. 21348 Tom.Wright@mybrighthouse.com
PEACE RIVER ELECTRIC COOPERATIVE, INC. P.O. BOX 1310 WACHULA, FL 33873 KENDELL COKER (863) 767-4660 kendell.coker@preco.coop

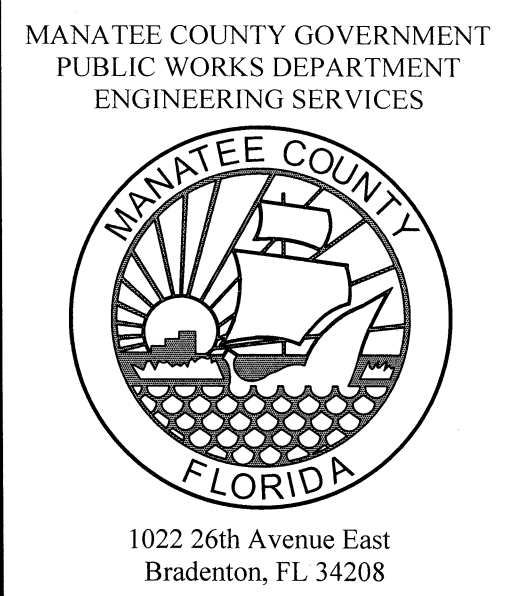
EXISTING

LEGEND

Legend table with columns for EXISTING, PROPOSED, and ABBREVIATIONS. Includes symbols for BENCH MARK, CONCRETE MONUMENT, IRON PIPE, IRON ROD, HUB, NAIL & DISK, ELEVATION, PARCEL ID NO., LOT NO., GUY WIRE, POWER POLE, LIGHT POLE, MAIL BOX, SIGN, REFLECTOR, SPRINKLER, GAS MARKER, BACKFLOW PREVENTER, BLOW OFF VALVE, FIRE HYDRANT, WATER VALVE, AIR RELEASE VALVE, WATER METER, SANITARY SEWER MANHOLE, SANITARY SEWER CLEAN OUT, SOIL BORING LOCATION, TELEPHONE SERVICE BOX, FLOW DIRECTION, GATE INLET, MITERED END SECTION, BUSH, TREE, OAK TREE, PALM TREE, PINE TREE, EDGE OF VEGETATION, CHAIN LINK FENCE, WOOD FENCE, BARBED WIRE FENCE, FORCE MAIN, POTABLE WATER, RECLAIMED WATER, SANITARY SEWER, STORM DRAIN, GAS LINE, OVERHEAD TV, UNDERGROUND TV, OVERHEAD ELECTRIC, OVERHEAD VERIZON, UNDERGROUND VERIZON, VERIZON, UNDERGROUND UTILITY, OVERHEAD UTILITY, RAIL ROAD TRACKS, EDGE OF CONCRETE, EDGE OF ROAD, TOE OF SLOPE, TOP OF BANK, PROPERTY LINE, RIGHT OF WAY, R/W, RIGHT OF WAY, CONC, CONCRETE, ASPH, ASPHALT, DRWY, DRIVEWAY, SWK, SIDEWALK, EP, EDGE OF PAVEMENT, BOC, BACK OF CURB.

PROPOSED PROJECT NOTES JOB SPECIFIC (EXAMPLE):

WATER LINE CALL-OUT (TYPICAL) STA. 40+60, 17' LT. 1-6" GATE VALVE 1-6" FITTING



LIFT STATION UPGRADES, 2012 EMERGENCY GENERATORS-GROUP A GENERAL NOTES & LEGEND

Table with columns: NO., DATE, BY, REVISION DESCRIPTION

Table with columns: PROJECT #, SURVEY #, SEC./TWN./RGE, SCALE

Table with columns: SURVEYED, DESIGNED, DRAWN, CHECKED, BY, DATE

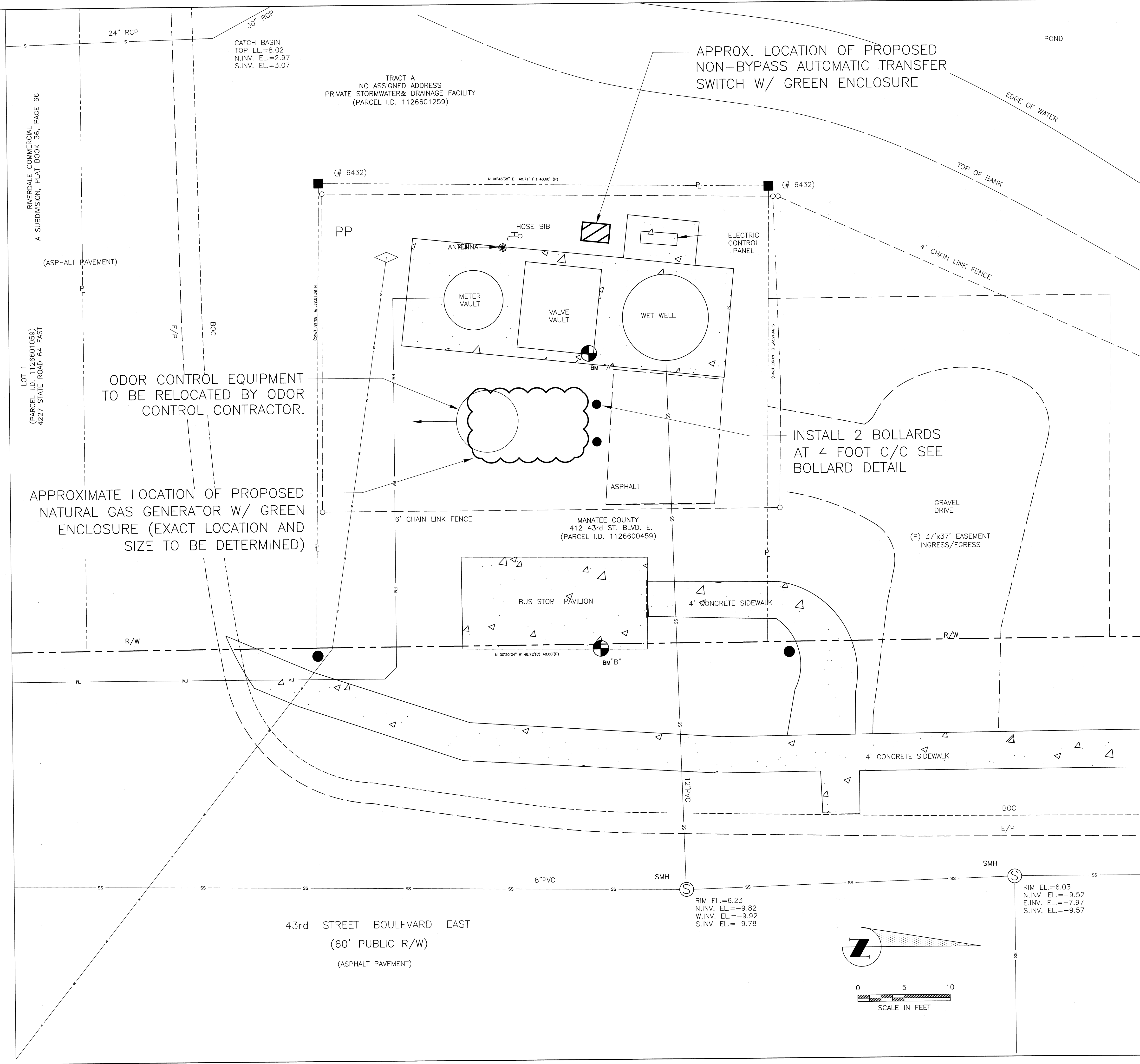
Professional Engineer Seal for James Stockwell, P.E., License No. 67198, State of Florida, dated 6/23/11

LIFT STATION UPGRADES, 2012
EMERGENCY GENERATORS-GROUP A
LIFT STATION RIVERDALE 1

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	402-0019707-5001343
SURVEY #	00-42668
SEC./TWN./RGE	28/34S/18
SCALE	1"=5'
SURVEYED	ZNS 03/14/11
DESIGNED	JS/BR/CB 3/14/2011
DRAWN	BR/CB 3/28/2011
CHECKED	JS -

JAMES STOCKWELL, P.E.
Professional Engineer
No. 67198
State of Florida
Date



332



VICINITY MAP
N.T.S.

- NOTES:**
- BEARINGS ARE BASED ON THE WEST RIGHT OF WAY LINE OF 43rd STREET BLVD. EAST, HAVING A BEARING OF N 00°20'24" W, AND ARE RELATED TO FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE) NAD 83/90 DERIVED FROM CONTROL MONUMENT MANATEE G. STROOP CORRS (PID-DL7628).
 - THE PROPERTY LIES WITHIN FLOOD ZONE "A8". BASE FLOOD ELEV.(BFE) 8.0' NGVD AS SHOWN ON MANATEE COUNTY INSURANCE RATE MAP PANEL No. 120153 0332 B, REVISED MARCH 15, 1984. FLOOD PROTECTION ELEV. (FPE) =9.0' NGVD. ELECTRICAL EQUIPMENT, INCLUDING GENERATOR, SHALL BE ABOVE FPE.
 - ELEVATIONS ARE BASED ON N.G.V.D. 1929 DATUM, MANATEE COUNTY BENCH MARK No. D559 (PID-DE8654), ELEVATION OF 8.78 (NAVD ELEVATION OF 7.81, AS PUBLISHED).
 - TITLE INFORMATION IS DERIVED FROM OWNERSHIP AND ENCUMBRANCE SEARCH BY TIT SEARCHING, INC., (FILE N/A) DATED N/A.
 - NATURAL GAS SERVICE TO BE INSTALLED IN A CARRIER PIPE AND STRAPPED TO THE VALVE VAULT OR WET WELL, IF PASSING OVER FORCE MAIN OR DISCHARGE PIPING.
 - CONTRACTOR SHALL INSTALL NATURAL GAS SERVICE FROM PROPOSED GENERATOR TO NATURAL GAS METER/BALL VALVE PROVIDED BY TECO. CONTRACTOR SHALL REMOVE PLUG AT NATURAL GAS METER/BALL VALVE AND CONNECT TO NATURAL GAS SERVICE PROVIDED BY TECO.
 - ANY ELECTRICAL WIRING THAT IS INSTALLED BETWEEN THE LIFT STATION'S WET WELL AND THE VALVE VAULT SHALL BE INSTALLED IN A CARRIER PIPE THAT IS STRAPPED TO THE WET WELL OR VALVE VAULT.
- BENCH MARKS:**
- BM "A" SQUARE CUT SET IN S.E. CORNER OF VAULT
EL. = 9.88' NGVD 1929 (EL. = 8.91' NAVD 1988)
- BM "B" SQUARE CUT SET IN EAST EDGE OF CONCRETE PAD
EL. = 9.43' NGVD 1929 (EL. = 8.46' NAVD 1988)
- NOTE: NGVD 1929 CONVERTED TO NAVD 1988 BY SUBTRACTING 0.97' AS DICTATED BY NGS DATA SHEETS IN THIS AREA.

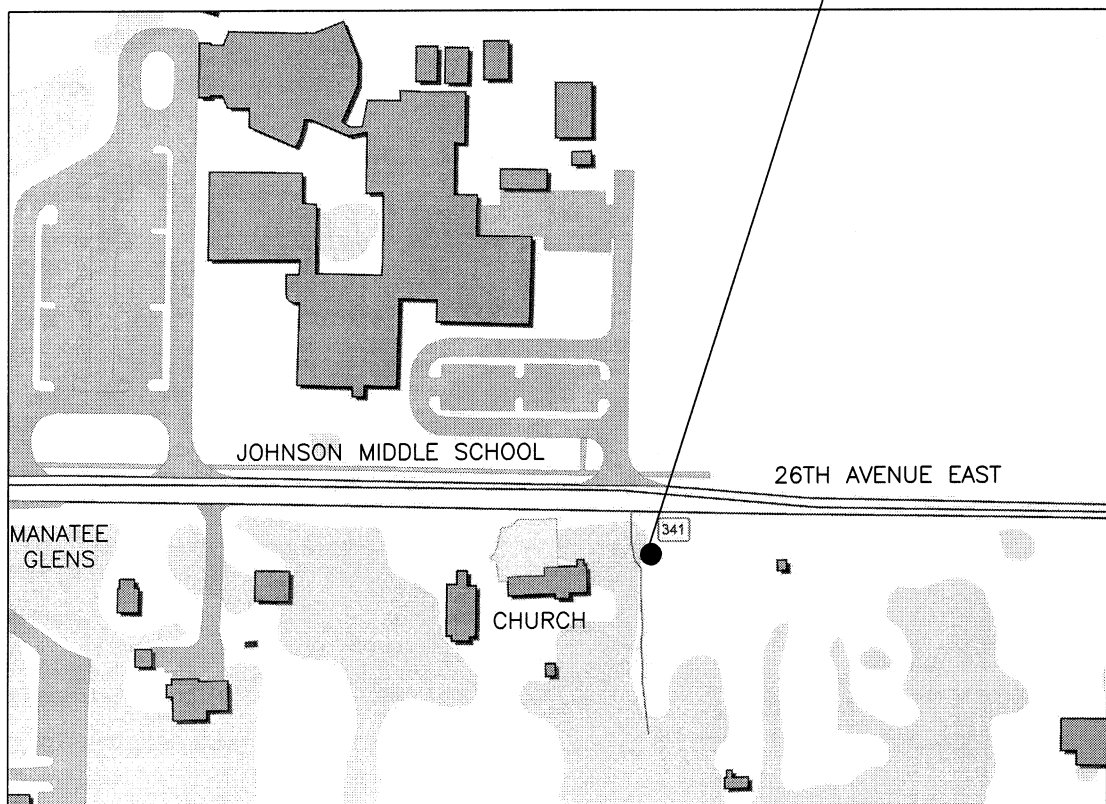
RIVERDALE 1	
ITEM	VALUE
RTU	332
STREET ADDRESS	412 43RD ST. BLVD. E.
CITY	BRADENTON
SEC./TWN./RGE	28/34/17
FIRE DISTRICT	PARRISH
NUMBER OF PUMPS	2
HORSE POWER/PUMP	15
PHASE	3
VOLTS	480
MODEL OF MAIN BREAKER	SD KAL36200
TOP WET WELL EL. (NGVD 29)	10.59'
FLOOD ZONE	A8

COPYRIGHT 2010 MANATEE COUNTY GOVERNMENT S:\PWD_Engineering_Share\Util_Eng_Design\Proj\SSM_Swr - LS Upgrades\Cons\2012_Ejns\GENERAL\DWG\SS\Edm 2012_C50UP_1.dwg, Riverdale RTU 332_E/2/2/2011 10:21 AM Bruce Robertson, 11_Arch full bleed D (36.00 x 24.00 inches)

COPYRIGHT 2010 MANATEE COUNTY GOVERNMENT | S:\P\RD_Engineering_Shera\Util_Eng_Design\Proj\2012_Group_A\wg3-S-5_RtU_341.dwg | L.S. Upgrades\Edema\2012_Egema\GENERAL\DWG\GEN\2012_Group_A\wg3-S-5_RtU_341.dwg | 6/22/2011 7:32 AM Bruce Robertson, 1:1 ARCH (tbl) | Sheet D (36.00 x 24.00 inches)

LIFT STATION UPGRADES, 2012
EMERGENCY GENERATORS-GROUP A
LIFT STATION S-5

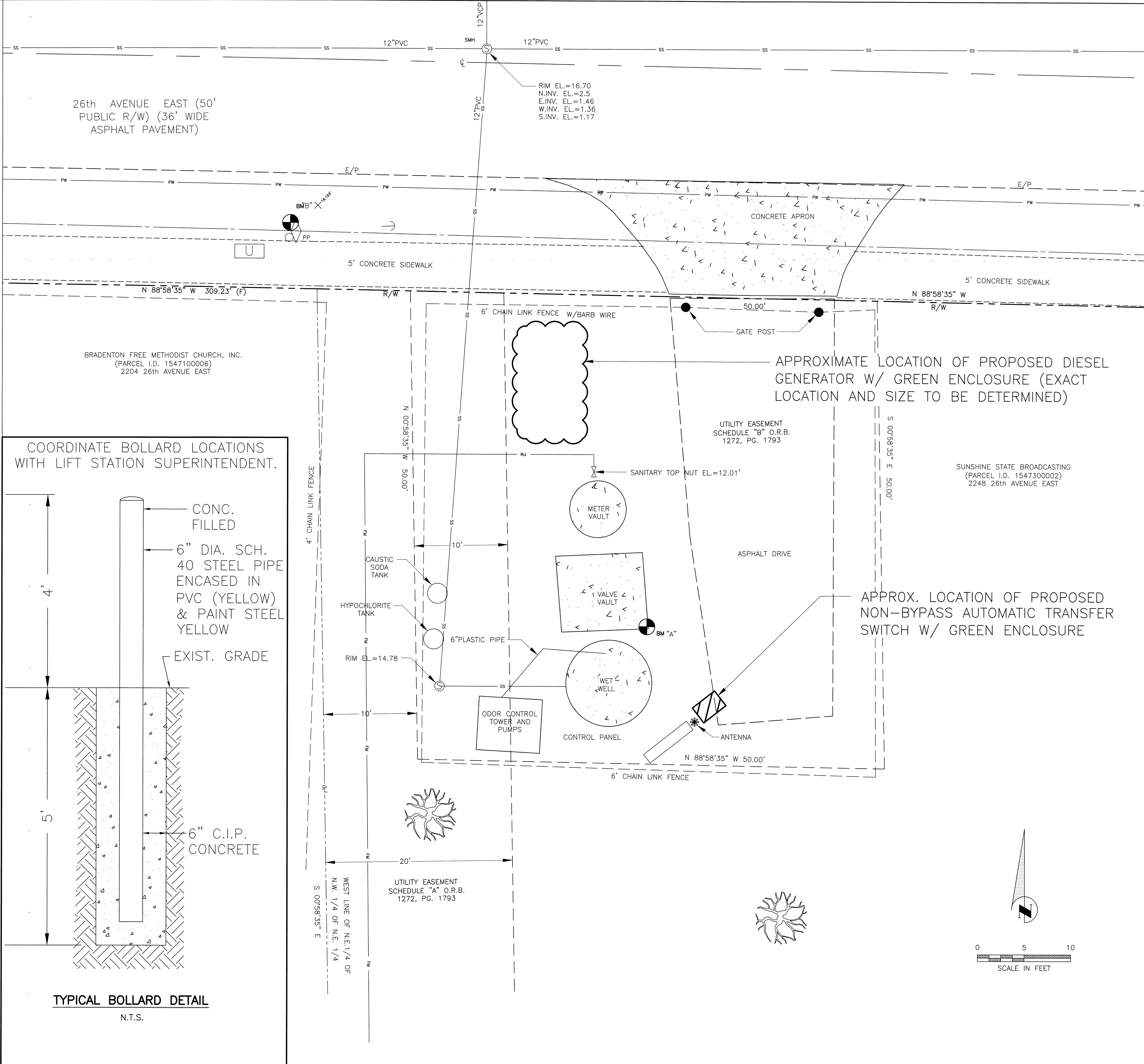
341



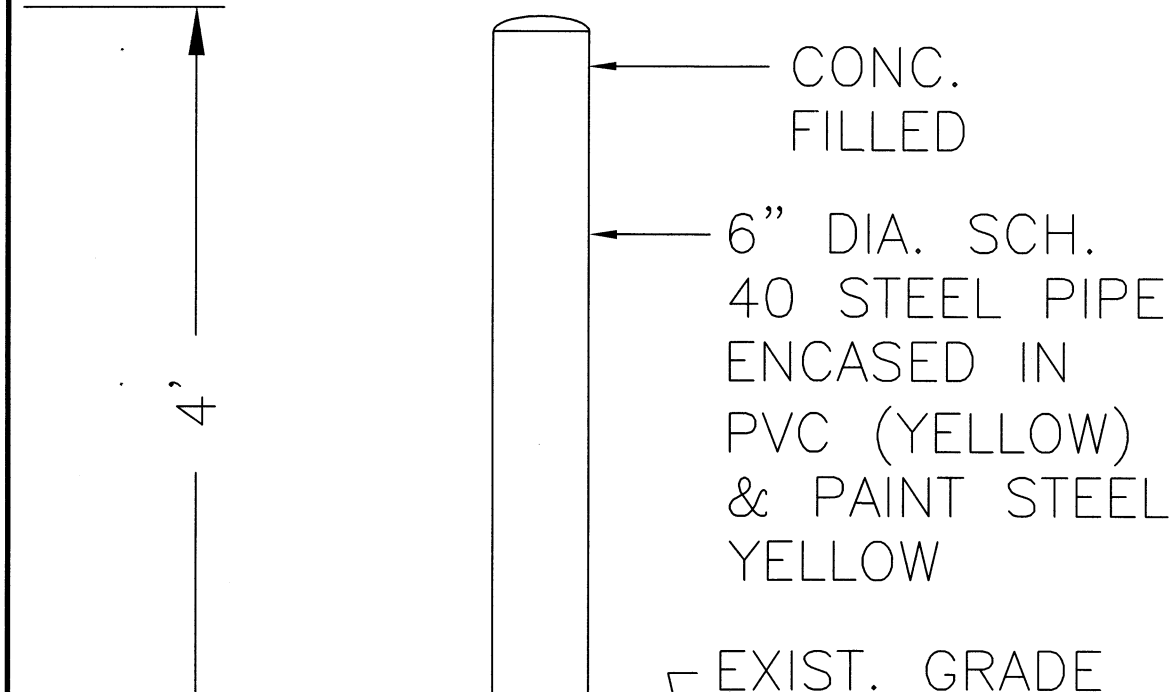
VICINITY MAP
N.T.S.

- NOTES:
- BEARINGS ARE BASED ON THE SOUTH RIGHT OF WAY LINE OF 26th STREET EAST, HAVING A BEARING OF N 88°58'35" W, AND ARE RELATED TO FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE) NAD 83/90 DERIVED FROM CONTROL MONUMENT GIS 081 (AG9186).
 - THE PROPERTY LIES WITHIN FLOOD ZONE "C" AS SHOWN ON MANATEE COUNTY INSURANCE RATE MAP PANEL No. 120153 0331 B, REVISED ELEVATIONS ARE BASED ON N.G.V.D. 1929 DATUM, MANATEE COUNTY BENCH
 - MARK No. GIS 081 (PID-AG9186), ELEVATION OF 20.70 (NGVD 1988, ELEVATION OF 19.72, AS PUBLISHED)
 - TITLE INFORMATION IS DERIVED FROM OWNERSHIP AND ENCUMBRANCE SEARCH BY TnT SEARCHING, INC., (FILE S11-012) DATED /11/2011.
 - ANY ELECTRICAL WIRING THAT IS INSTALLED BETWEEN THE LIFT STATION'S WET WELL AND VALVE VAULT SHALL BE INSTALLED IN A CARRIER PIPE THAT IS STRAPPED TO THE WET WELL OR VALVE VAULT.
 - THE OVERALL FUEL SYSTEM IS TO COMPLY WITH ALL APPLICABLE NFPA REGULATIONS AS WELL AS THOSE REQUIRED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION. THIS INCLUDES NFPA COMPLIANT LABELS FOR THE FUEL SHUT-OFF LOCATION AND APPLICATIONS OF DIESEL HAZMAT SYMBOL STICKERS.
 - INSTALL A 10# ABC FIRE EXTINGUISHER IN A WATERPROOF ENCLOSURE MOUNTED TO THE MAIN CONTROL CABINET SUPPORT POSTS AND INSTALL A KNOX LOCK ON THE ENCLOSURE FENCE GATE LOCKING CHAIN, IF APPLICABLE.
- BENCH MARKS:
- BM "A" N&D SET IN CORNER OF VAULT
EL. = 14.63' NGVD 1929 (EL. = 13.65' NAVD 1988)
- BM "B" 60p NAIL IN NORTH SIDE WOOD UTILITY POLE
EL. = 17.52' NGVD 1929 (EL. = 16.54' NAVD 1988)
- NOTE: NGVD 1929 CONVERTED TO NAVD 1988 BY SUBTRACTING 0.98' AS DICTATED BY NGS DATA SHEETS IN THIS AREA.

S-5	
ITEM	VALUE
RTU	341
STREET ADDRESS	2206 26th.AV.E.
CITY	SOMOSET
SEC./TWN./RGE	06/35/18
FIRE DISTRICT	SOUTHERN MANATEE
NUMBER OF PUMPS	2
HORSE POWER/PUMP	7.5
PHASE	3
VOLTS	230
MODEL OF MAIN BREAKER	SD FAL36100
TOP WET WELL EL. (NGVD 29)	14.663'
FLOOD ZONE	C



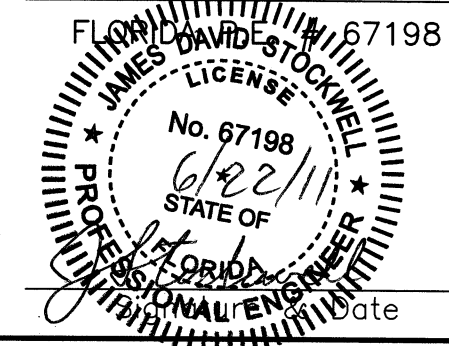
COORDINATE BOLLARD LOCATIONS WITH LIFT STATION SUPERINTENDENT.

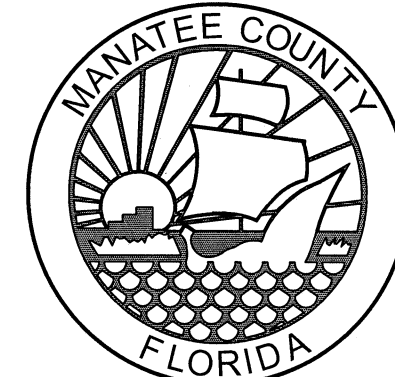


TYPICAL BOLLARD DETAIL
N.T.S.

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	402-0019707-5001342
SURVEY #	00-42668
SEC./TWN./RGE	06/35/18
SCALE	1"=5'
SURVEYED	ZNS 02/08/11
DESIGNED	JS/BR/CB 3/14/2011
DRAWN	BR/CB 3/28/2011
CHECKED	JS -

JAMES STOCKWELL, P.E.
 FLORIDA LICENSE NO. 67198

 SHEET 4 OF 9



LIFT STATION UPGRADES, 2012
EMERGENCY GENERATORS-GROUP A
LIFT STATION SABAL HARBOUR 1

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	402-0019707-5001339
SURVEY #	00-42668
SEC./TWN./RGE	09/35/18
SCALE	1"=5'
SURVEYED	ZNS 03/15/11
DESIGNED	JS/BR/CB 3/14/2011
DRAWN	BR/CB 3/28/2011
CHECKED	JS -

JAMES STOCKWELL, P.E.
FLORIDA PROFESSIONAL ENGINEER # 67198

SHEET 4 OF 9



VICINITY MAP
N.T.S.

NOTES:

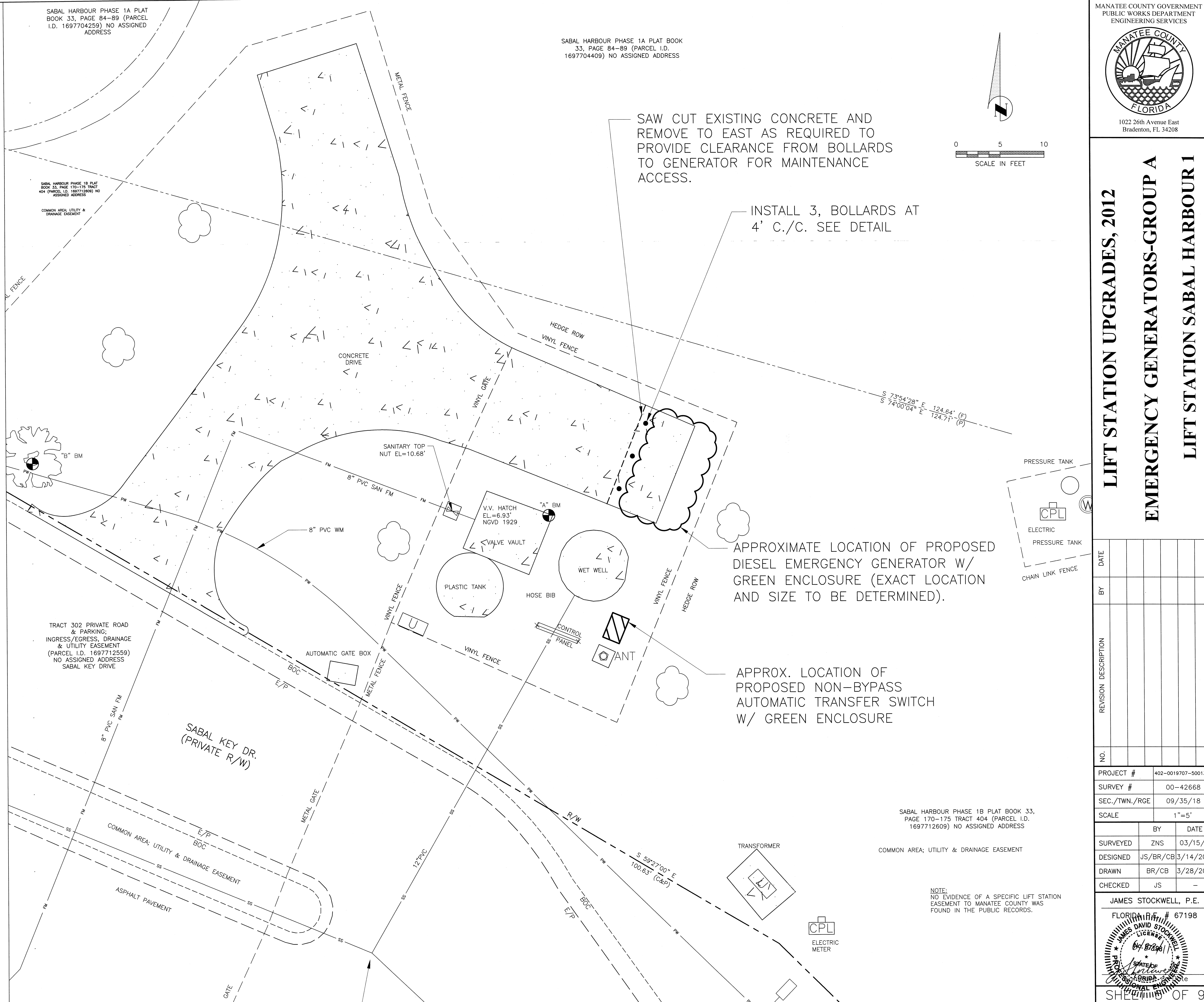
- BEARINGS ARE BASED ON THE NORTH LINE OF TRACT 404 OF SABAL HARBOUR PHASE 1B, HAVING A BEARING OF S 73°54'28" E, AND ARE RELATED TO FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE) NAD 83/90 DERIVED FROM CONTROL MONUMENT MANATEE G. STROOP CORS ARP(DL7628).
- THE PROPERTY LIES WITHIN FLOOD ZONE "X" AS SHOWN ON MANATEE COUNTY INSURANCE RATE MAP PANEL No. 120153 0334 C, REVISED JULY 15, 1992.
- ELEVATIONS ARE BASED ON N.G.V.D. 1929 DATUM, MANATEE COUNTY BENCH MARK "DESOTO", ELEVATION OF 19.74 (NAVD 1988 ELEVATION 18.75 AS PUBLISHED).
- TITLE INFORMATION IS DERIVED FROM OWNERSHIP AND ENCUMBRANCE SEARCH BY Tnt SEARCHING, INC., (FILE S11-018) DATED 2/11/2011.
- ANY ELECTRICAL WIRING THAT IS INSTALLED BETWEEN THE LIFT STATION'S WET WELL AND VALVE VAULT SHALL BE INSTALLED IN A CARRIER PIPE THAT IS STRAPPED TO THE WET WELL OR VALVE VAULT.
- THE OVERALL FUEL SYSTEM IS TO COMPLY WITH ALL APPLICABLE NFPA REGULATIONS AS WELL AS THOSE REQUIRED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION. THIS INCLUDES NFPA COMPLIANT LABELS FOR THE FUEL SHUT-OFF LOCATION AND APPLICATIONS OF DIESEL HAZMAT SYMBOL STICKERS.
- INSTALL A 10# ABC FIRE EXTINGUISHER IN A WATERPROOF ENCLOSURE MOUNTED TO THE MAIN CONTROL CABINET SUPPORT POSTS AND INSTALL A KNOX LOCK ON THE ENCLOSURE FENCE GATE LOCKING CHAIN, IF APPLICABLE.

BENCH MARKS:

- BM "A" DISC SET IN NORTHEAST CORNER OF VAULT
EL. = 16.93' NGVD 1929 (EL. = 15.94' NAVD 1988)
- BM "B" 60p NAIL IN SOUTHEAST SIDE 12" OAK. (BELOW N&D LS386) EL. = 16.45' NGVD 1929 (EL. = 15.46' NAVD 1988)

NOTE: NGVD 1929 CONVERTED TO NAVD 1988 BY SUBTRACTING 0.99' AS DICTATED BY NGS DATA SHEETS IN THIS AREA.

SABAL HARBOUR 1	
ITEM	VALUE
RTU	386
STREET ADDRESS	4503 SABAL KEY DR.
CITY	BRADENTON
SEC./TWN./RGE	9/35/19
FIRE DISTRICT	SOUTHERN MANATEE
NUMBER OF PUMPS	2
HORSE POWER/PUMP	10
PHASE	3
VOLTS	230
MODEL OF MAIN BREAKER	SD Q2L3150
TOP WET WELL EL. (NGVD 29)	17'
FLOOD ZONE	X



SABAL HARBOUR PHASE 1A PLAT BOOK 33, PAGE 84-89 (PARCEL I.D. 1697704409) NO ASSIGNED ADDRESS

SABAL HARBOUR PHASE 1A PLAT BOOK 33, PAGE 84-89 (PARCEL I.D. 1697704259) NO ASSIGNED ADDRESS

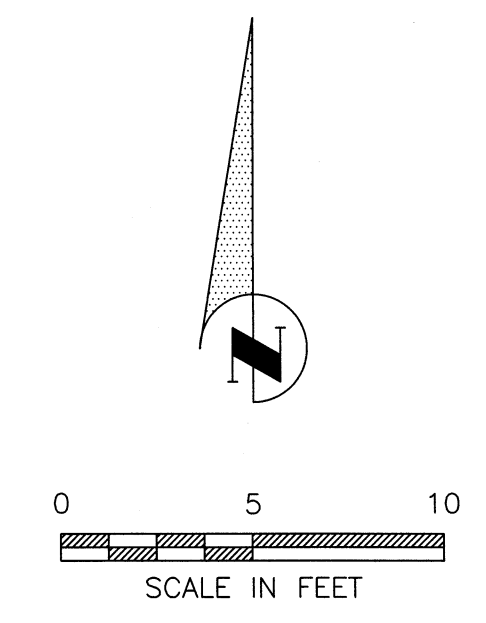
SABAL HARBOUR PHASE 1B PLAT BOOK 33, PAGE 170-175 TRACT 404 (PARCEL I.D. 1697712609) NO ASSIGNED ADDRESS

TRACT 302 PRIVATE ROAD & PARKING; INGRESS/EGRESS, DRAINAGE & UTILITY EASEMENT (PARCEL I.D. 1697712559) NO ASSIGNED ADDRESS SABAL KEY DRIVE

SABAL HARBOUR PHASE 1B PLAT BOOK 33, PAGE 170-175 TRACT 404 (PARCEL I.D. 1697712609) NO ASSIGNED ADDRESS

COMMON AREA; UTILITY & DRAINAGE EASEMENT

NOTE: NO EVIDENCE OF A SPECIFIC LIFT STATION EASEMENT TO MANATEE COUNTY WAS FOUND IN THE PUBLIC RECORDS.

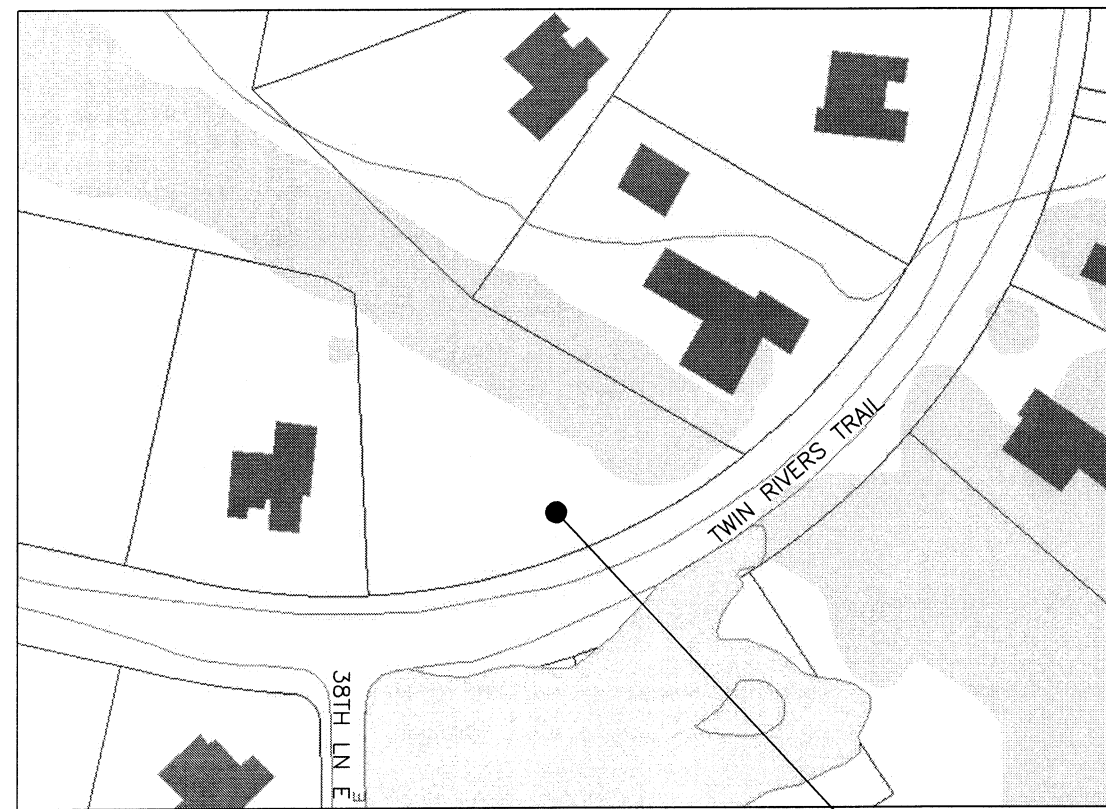


SAW CUT EXISTING CONCRETE AND REMOVE TO EAST AS REQUIRED TO PROVIDE CLEARANCE FROM BOLLARDS TO GENERATOR FOR MAINTENANCE ACCESS.

INSTALL 3, BOLLARDS AT 4' C./C. SEE DETAIL

APPROXIMATE LOCATION OF PROPOSED DIESEL EMERGENCY GENERATOR W/ GREEN ENCLOSURE (EXACT LOCATION AND SIZE TO BE DETERMINED).

APPROX. LOCATION OF PROPOSED NON-BYPASS AUTOMATIC TRANSFER SWITCH W/ GREEN ENCLOSURE



VICINITY MAP
N.T.S.

595

NOTES:

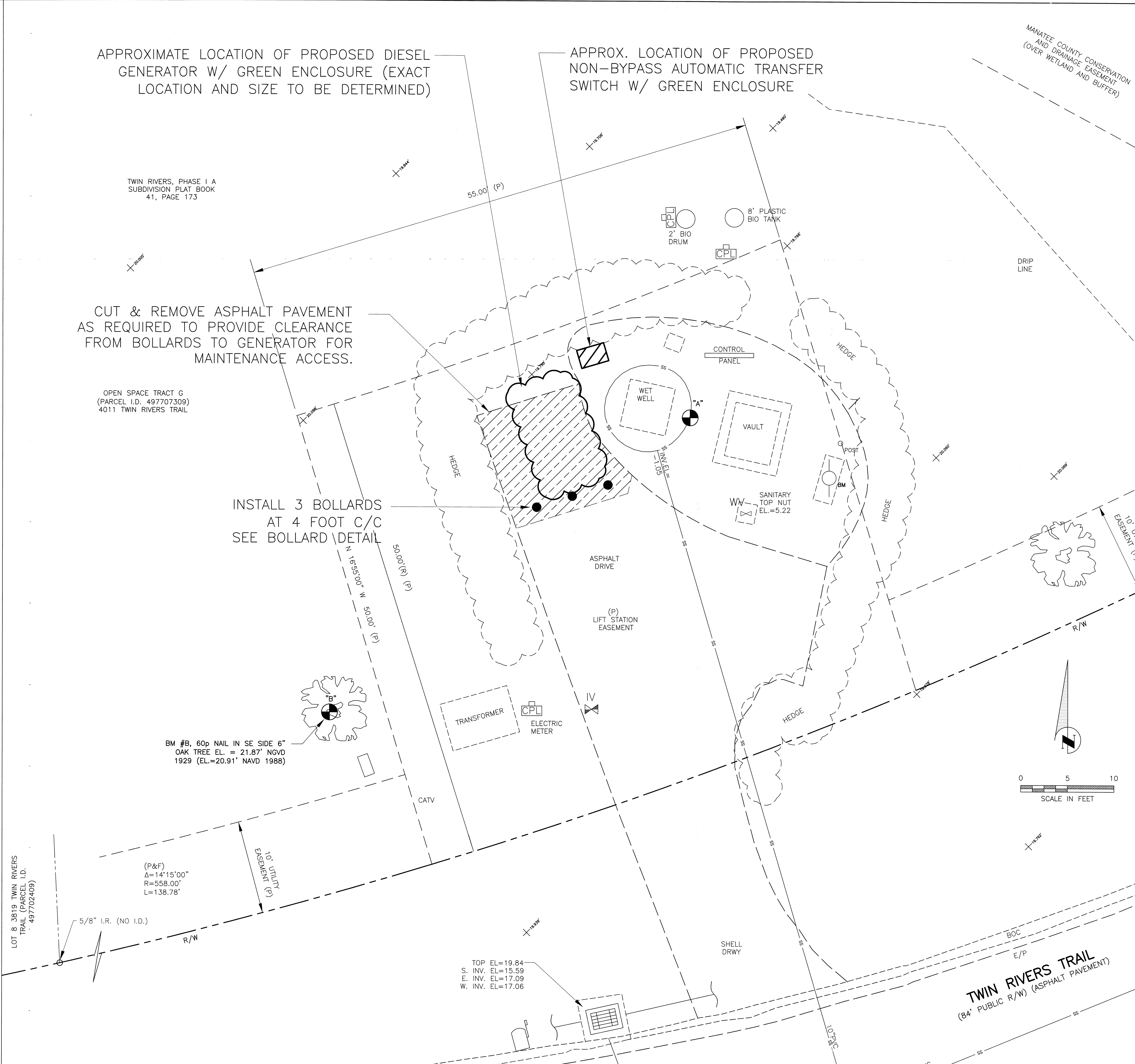
- BEARINGS ARE BASED ON THE EAST RIGHT OF WAY LINE OF 38th LANE EAST EAST, HAVING A BEARING OF N 00°55'00" W, AND ARE RELATED TO FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE) NAD 83/90 DERIVED FROM CONTROL MONUMENT MANATEE G. STROOP CORS ARP(DL7628).
- THE PROPERTY LIES WITHIN FLOOD ZONE "X" AS SHOWN ON MANATEE COUNTY INSURANCE RATE MAP PANEL No. 120153 0220 C, REVISED JUNE 30, 1999.
- ELEVATIONS ARE BASED ON N.G.V.D. 1929 DATUM, MANATEE COUNTY BENCH IN THE N.E. CORNER OF THE BRIDGE OVER GAMBLE CREEK AT GOLF COURSE ROAD, ELEVATION OF 17.50 AS PUBLISHED.
- TITLE INFORMATION IS DERIVED FROM OWNERSHIP AND ENCUMBRANCE SEARCH BY Tnt SEARCHING, INC., (FILE S11-011) DATED 2/11/2011.
- ANY ELECTRICAL WIRING THAT IS INSTALLED BETWEEN THE LIFT STATION'S WET WELL AND VALVE VAULT SHALL BE INSTALLED IN A CARRIER PIPE THAT IS STRAPPED TO THE WET WELL OR VALVE VAULT.
- THE OVERALL FUEL SYSTEM IS TO COMPLY WITH ALL APPLICABLE NFPA REGULATIONS AS WELL AS THOSE REQUIRED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION. THIS INCLUDES NFPA COMPLIANT LABELS FOR THE FUEL SHUT-OFF LOCATION AND APPLICATIONS OF DIESEL HAZMAT SYMBOL STICKERS.
- INSTALL A 10# ABC FIRE EXTINGUISHER IN A WATERPROOF ENCLOSURE MOUNTED TO THE MAIN CONTROL CABINET SUPPORT POSTS AND INSTALL A KNOX LOCK ON THE ENCLOSURE FENCE GATE LOCKING CHAIN, IF APPLICABLE.

BENCH MARKS:

- BM "A" DISC (# LB6982) SET IN EAST SIDE OF WET WELL
EL. = 19.66' NGVD 1929 (EL. = 18.70' NAVD 1988)
- BM "B" 60p NAIL IN SOUTHEAST SIDE 6" OAK TREE
EL. = 21.87' NGVD 1929 (EL. = 20.91' NAVD 1988)

NOTE: NGVD 1929 CONVERTED TO NAVD 1988 BY SUBTRACTING 0.96' AS DICTATED BY NGS DATA SHEETS IN THIS AREA.

TWIN RIVERS 1	
ITEM	VALUE
RTU	595
STREET ADDRESS	3825 TWIN RIVERS TRAIL
CITY	PARRISH
SEC./TWN./RGE	03/34/19
FIRE DISTRICT	PARRISH
NUMBER OF PUMPS	2
HORSE POWER/PUMP	50
PHASE	3
VOLTS	480
MODEL OF MAIN BREAKER	SD KAL 36200
TOP WET WELL EL. (NGVD 29)	19.60'
FLOOD ZONE	X5



LIFT STATION UPGRADES, 2012
EMERGENCY GENERATORS-GROUP A
LIFT STATION TWIN RIVERS 1

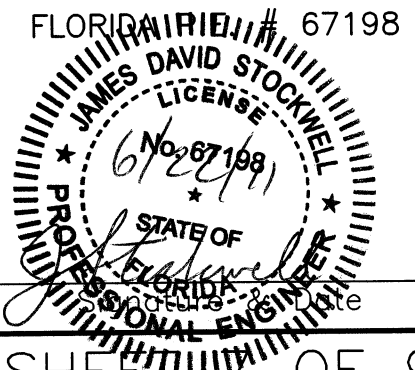
NO.	REVISION DESCRIPTION	BY	DATE

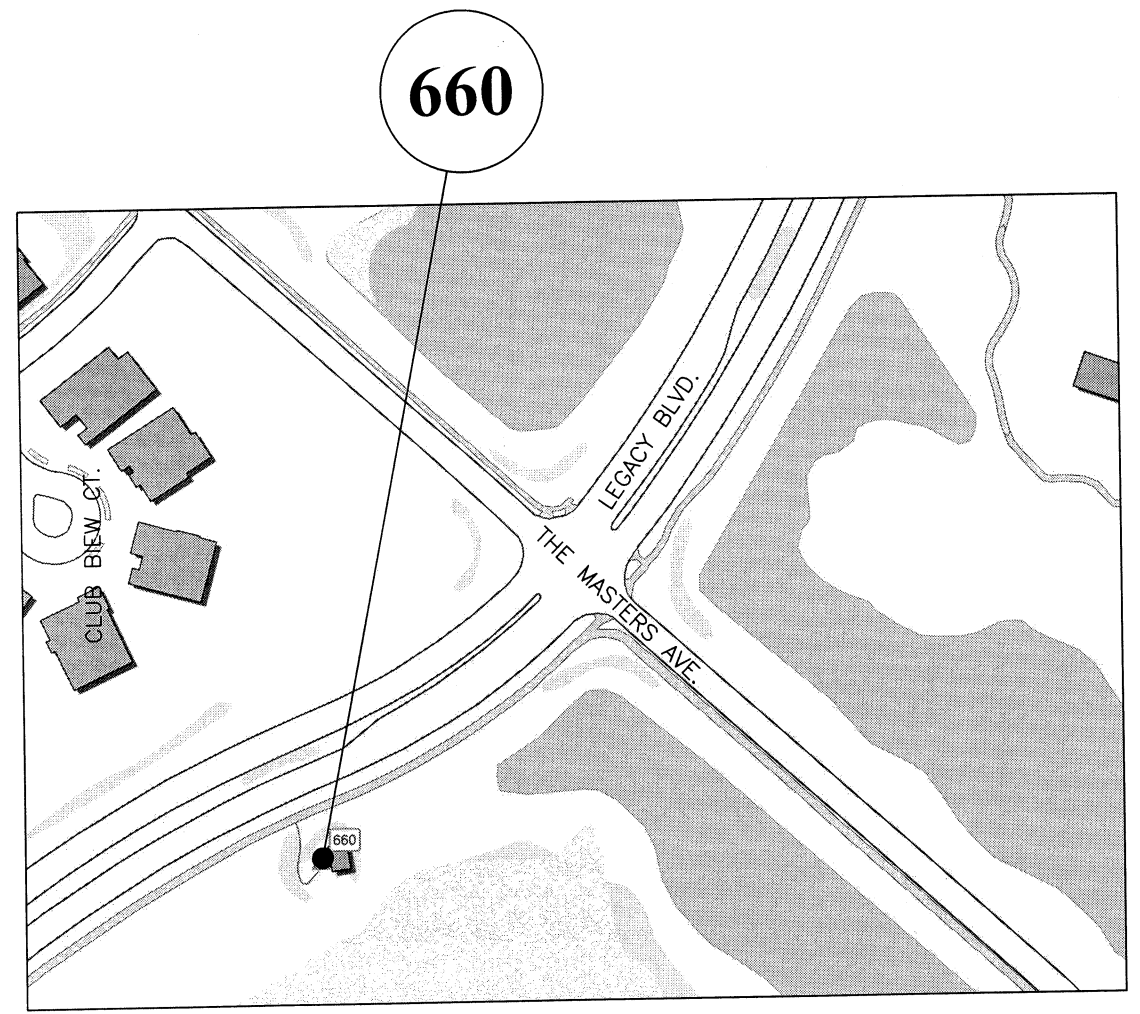
PROJECT #	402-0019707-5001348
SURVEY #	00-42668
SEC./TWN./RGE	03/34/19
SCALE	1"=5'
SURVEYED	ZNS 03/09/11
DESIGNED	JS/BR/CB 3/14/2011
DRAWN	BR/CB 3/28/2011
CHECKED	JS -

JAMES STOCKWELL, P.E.
FLORIDA P.E. # 67198

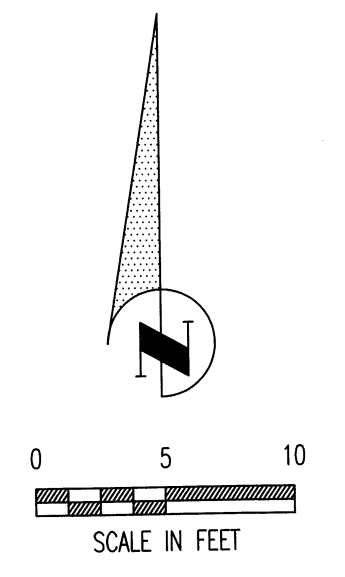
 SHEET NO. 1 OF 9

LIFT STATION UPGRADES, 2012
EMERGENCY GENERATORS-GROUP A
LIFT STATION LEGACY 10

NO.	DATE	BY	REVISION DESCRIPTION
PROJECT #	402-0019707-5001340		
SURVEY #	00-42668		
SEC./TWN./RGE	33/35/19		
SCALE	1"=8'		
SURVEYED	BY	DATE	
DESIGNED	JS/BR/CB	3/14/2011	
DRAWN	BR/CB	3/28/2011	
CHECKED	JS	-	
JAMES STOCKWELL, P.E.			
FLORIDA LICENSE # 67198			
			
SHEET 9 OF 9			

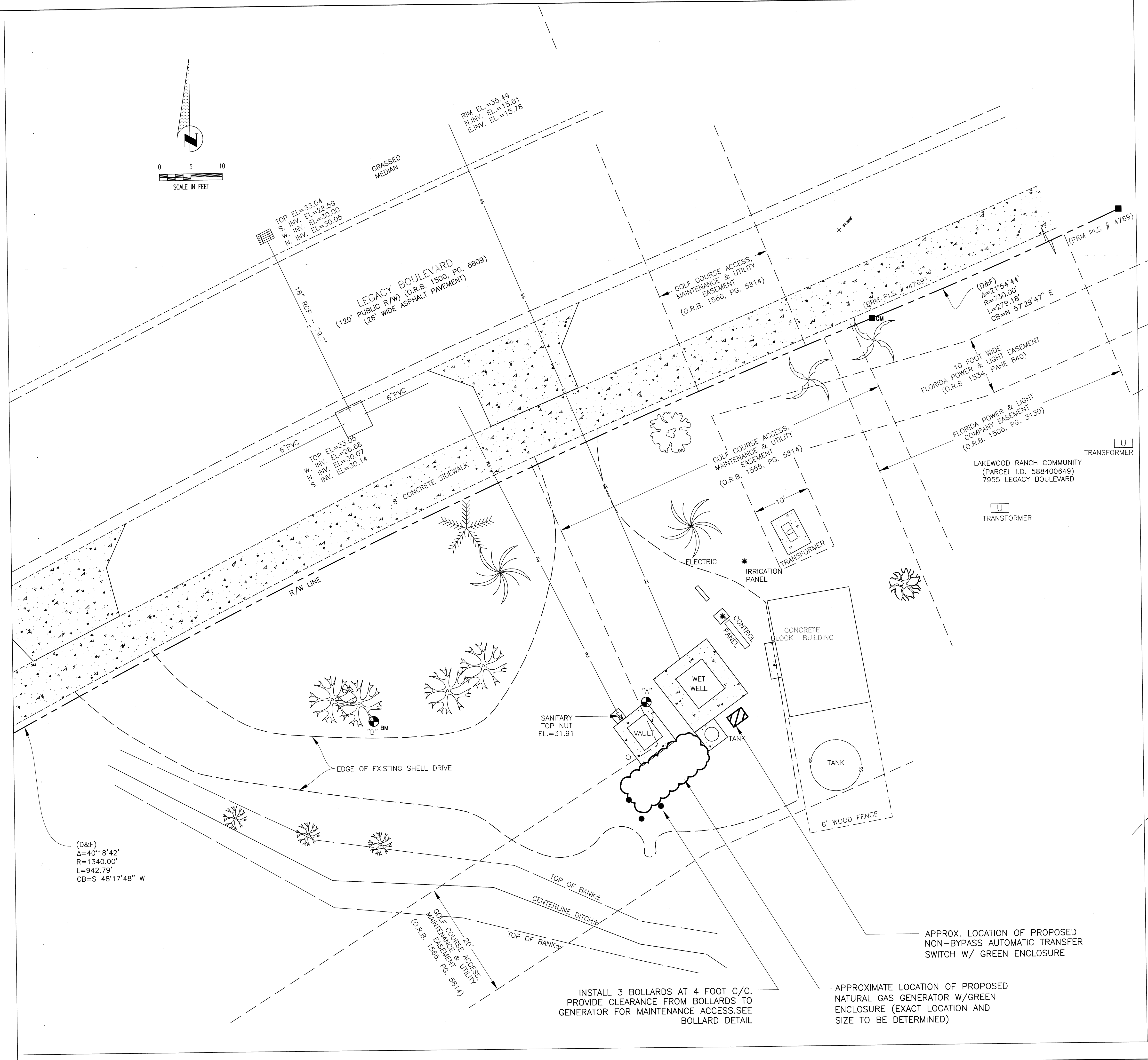


VICINITY MAP
N.T.S.



- NOTES:**
- BEARINGS ARE BASED ON THE SOUTH RIGHT OF WAY LINE OF MASTERS AVENUE HAVING A BEARING OF N 47°57'29" W, AND ARE RELATED TO FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE) NAD 83/90 DERIVED FROM CONTROL MONUMENT MANATEE G. STROOP CORS ARP (DL 7628).
 - THE PROPERTY LIES WITHIN FLOOD ZONE "X" AS SHOWN ON MANATEE COUNTY INSURANCE RATE MAP PANEL No. 120153 0370 C, REVISED JULY 15, 1992.
 - ELEVATIONS ARE BASED ON N.G.V.D. 1929 DATUM, NATIONAL OCEAN SURVEY (NOS) BENCH MARK No. 35 AND 36, ELEVATIONS OF 30.753 AND 31.275 RESPECTIVELY AS PUBLISHED.
 - TITLE INFORMATION IS DERIVED FROM OWNERSHIP AND ENCUMBRANCE SEARCH BY T&T SEARCHING, INC., (FILE S11-017) DATED 2/28/2011.
 - NO SPECIFIC SANITARY LIFT STATION EASEMENT WAS FOUND IN THE PUBLIC RECORDS OF MANATEE COUNTY, FLORIDA.
 - NATURAL GAS SERVICE TO BE INSTALLED IN A CARRIER PIPE AND STRAPPED TO THE VALVE VAULT OR WET WELL, IF PASSING OVER FORCE MAIN OR DISCHARGE PIPING.
 - CONTRACTOR SHALL INSTALL NATURAL GAS SERVICE FROM PROPOSED GENERATOR TO NATURAL GAS METER/BALL VALVE PROVIDED BY TECO. CONTRACTOR SHALL REMOVE PLUG AT NATURAL GAS METER/BALL VALVE AND CONNECT TO NATURAL GAS SERVICE PROVIDED BY TECO.
 - ANY ELECTRICAL WIRING THAT IS INSTALLED BETWEEN THE LIFT STATION'S WET WELL AND THE VALVE VAULT SHALL BE INSTALLED IN A CARRIER PIPE THAT IS STRAPPED TO THE WET WELL OR VALVE VAULT.
- BENCH MARKS:**
- BM "A" DISC (# LB6982) SET IN NORTH CORNER OF WET WELL
EL. = 34.94' NGVD 1929 (EL. = 33.97' NAVD 1988)
- BM "B" 60p NAIL SET IN SOUTH SIDE PALM
EL. = 36.08' NGVD 1929 (EL. = 35.11' NAVD 1988)
- NOTE: NGVD 1929 CONVERTED TO NAVD 1988 BY SUBTRACTING 0.97' AS DICTATED BY NGS DATA SHEETS IN THIS AREA.

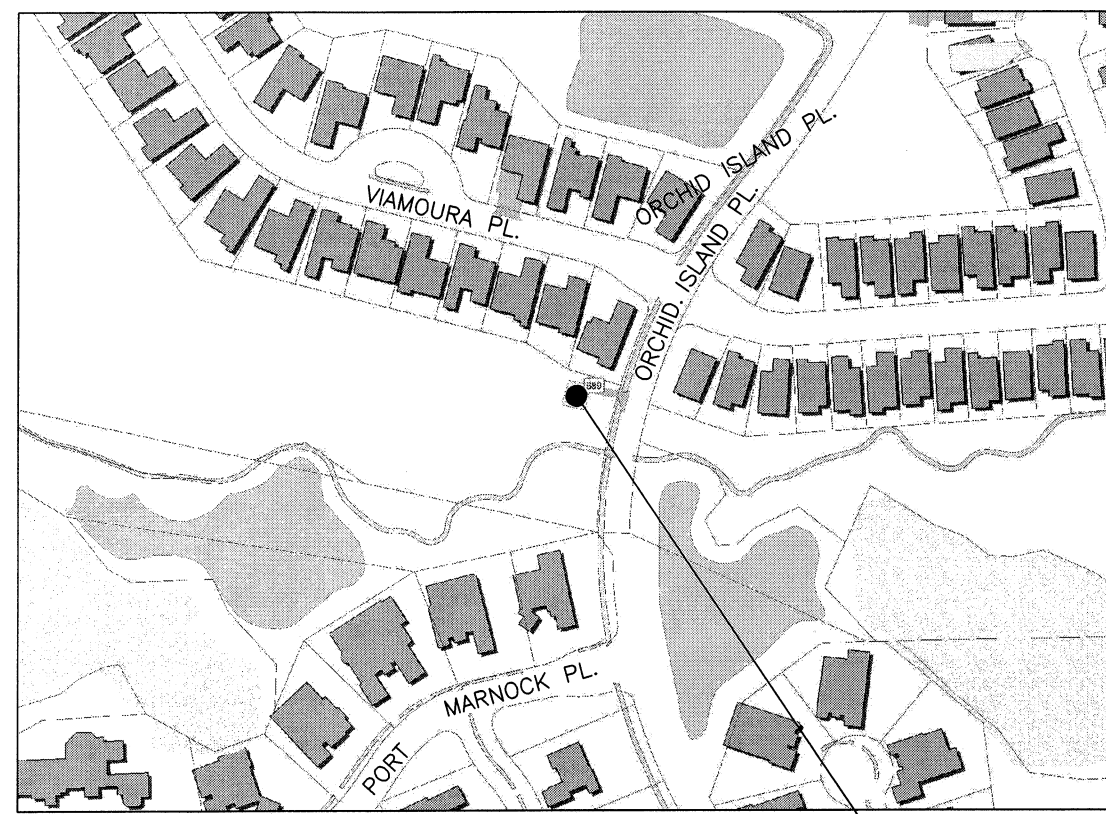
LEGACY 10	
ITEM	VALUE
RTU	660
STREET ADDRESS	7955 LEGACY BLVD.
CITY	BRADENTON
SEC./TWN./RGE	33/35/19
FIRE DISTRICT	EAST MANATEE
NUMBER OF PUMPS	2
HORSE POWER/PUMP	40
PHASE	3
VOLTS	460
MODEL OF MAIN BREAKER	SD KAL36200
TOP WET WELL EL. (NGVD 29)	33.2'
FLOOD ZONE	X



INSTALL 3 BOLLARDS AT 4 FOOT C/C.
PROVIDE CLEARANCE FROM BOLLARDS TO
GENERATOR FOR MAINTENANCE ACCESS. SEE
BOLLARD DETAIL

APPROXIMATE LOCATION OF PROPOSED
NATURAL GAS GENERATOR W/GREEN
ENCLOSURE (EXACT LOCATION AND
SIZE TO BE DETERMINED)

APPROX. LOCATION OF PROPOSED
NON-BYPASS AUTOMATIC TRANSFER
SWITCH W/ GREEN ENCLOSURE



VICINITY MAP
N.T.S.

689

NOTES:

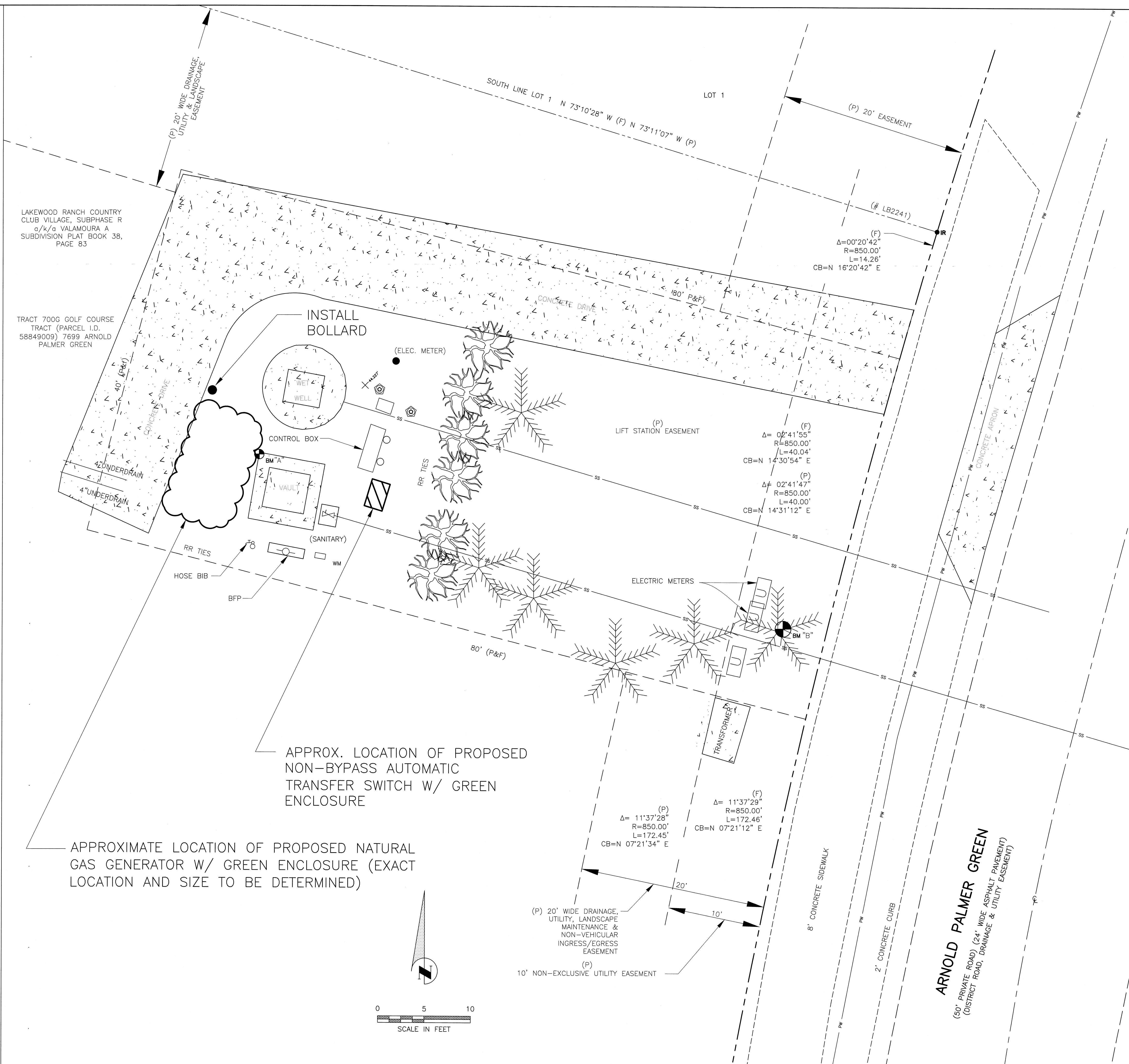
- BEARINGS ARE BASED ON THE SOUTH LINE OF LOT 1, LAKEWOOD RANCH HAVING A BEARING OF N 73°10'28" W, AND ARE RELATED TO FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE) NAD 83/90 DERIVED FROM CONTROL MONUMENT MANATEE G. STROOP CORS ARP (DL7628).
- THE PROPERTY LIES WITHIN FLOOD ZONE "X" AS SHOWN ON MANATEE COUNTY INSURANCE RATE MAP PANEL No. 120153 0370 C, REVISED JULY 15, 1992.
- ELEVATIONS ARE BASED ON N.G.V.D. 1929 DATUM, MANATEE COUNTY BENCH MARK No. M-253, ELEVATION OF 37.29 AS PUBLISHED. TITLE INFORMATION IS DERIVED FROM OWNERSHIP AND ENCUMBRANCE SEARCH BY T&T SEARCHING, INC., (FILE S11-005) DATED 2/7/2011.
- NATURAL GAS SERVICE TO BE INSTALLED IN A CARRIER PIPE AND STRAPPED TO THE VALVE VAULT OR WET WELL, IF PASSING OVER FORCE MAIN OR DISCHARGE PIPING.
- CONTRACTOR SHALL INSTALL NATURAL GAS SERVICE FROM PROPOSED GENERATOR TO NATURAL GAS METER/BALL VALVE PROVIDED BY TECO. CONTRACTOR SHALL REMOVE PLUG AT NATURAL GAS METER/BALL VALVE AND CONNECT TO NATURAL GAS SERVICE PROVIDED BY TECO.
- ANY ELECTRICAL WIRING THAT IS INSTALLED BETWEEN THE LIFT STATION'S WET WELL AND THE VALVE VAULT SHALL BE INSTALLED IN A CARRIER PIPE THAT IS STRAPPED TO THE WET WELL OR VALVE VAULT.

BENCH MARKS:

- BM "A" N&D SET IN N.W. CORNER OF VAULT
EL. = 44.41' NGVD 1929 (EL. = 43.44' NAVD 1988)
- BM "B" 60p NAIL IN NORTH SIDE PINE TREE
EL. = 48.29' NGVD 1929 (EL. = 47.26' NAVD 1988)

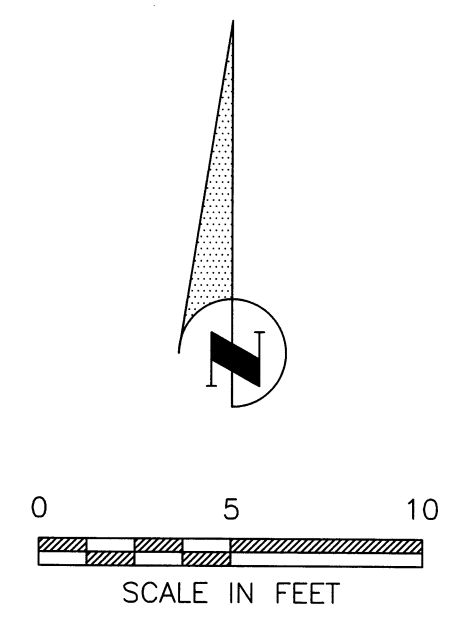
NOTE: NGVD 1929 CONVERTED TO NAVD 1988 BY SUBTRACTING 0.97' AS DICTATED BY NGS DATA SHEETS IN THIS AREA.

ARNOLD PALMER GREEN 1	
ITEM	VALUE
RTU	689
STREET ADDRESS	7699 ARNOLD PALMER GREEN
CITY	BRADENTON
SEC./TWN./RGE	33/35/19
FIRE DISTRICT	EAST MANATEE
NUMBER OF PUMPS	2
HORSE POWER/PUMP	30
PHASE	3
VOLTS	460
MODEL OF MAIN BREAKER	SD KAL36125
TOP WET WELL EL. (NGVD 29)	44.38'
FLOOD ZONE	X



APPROX. LOCATION OF PROPOSED NON-BYPASS AUTOMATIC TRANSFER SWITCH W/ GREEN ENCLOSURE

APPROXIMATE LOCATION OF PROPOSED NATURAL GAS GENERATOR W/ GREEN ENCLOSURE (EXACT LOCATION AND SIZE TO BE DETERMINED)

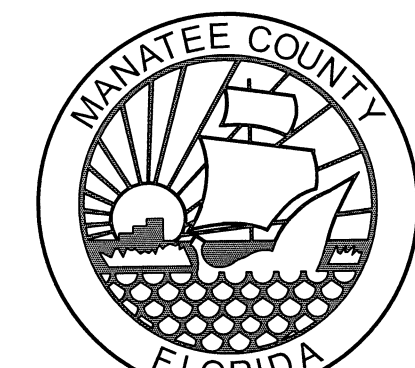


LIFT STATION UPGRADES, 2012
EMERGENCY GENERATORS-GROUP A
LIFT STATION ARNOLD PALMER GREEN 1

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	402-0019707-5001341
SURVEY #	00-42668
SEC./TWN./RGE	33/35/19
SCALE	1"=5'
SURVEYED	BY ZNS DATE 03/08/11
DESIGNED	JS/BR/CB 3/14/2011
DRAWN	BR/CB 3/28/2011
CHECKED	JS

JAMES STOCKWELL, P.E.
FLORIDA LICENSE # 67198
No. 07198
01/28/11
STATE OF FLORIDA
PROFESSIONAL ENGINEER



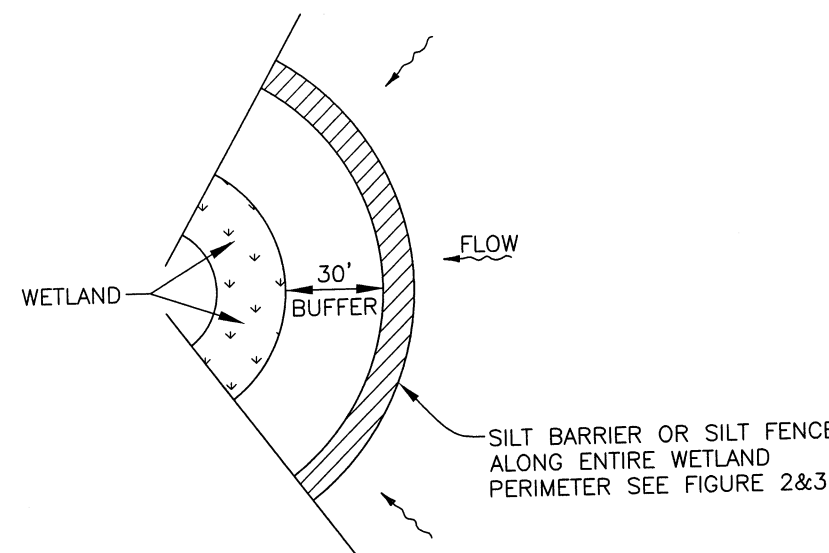
**LIFT STATION UPGRADES, 2012
EMERGENCY GENERATORS-GROUP A
EROSION CONTROL**

NO.	REVISION DESCRIPTION	BY	DATE

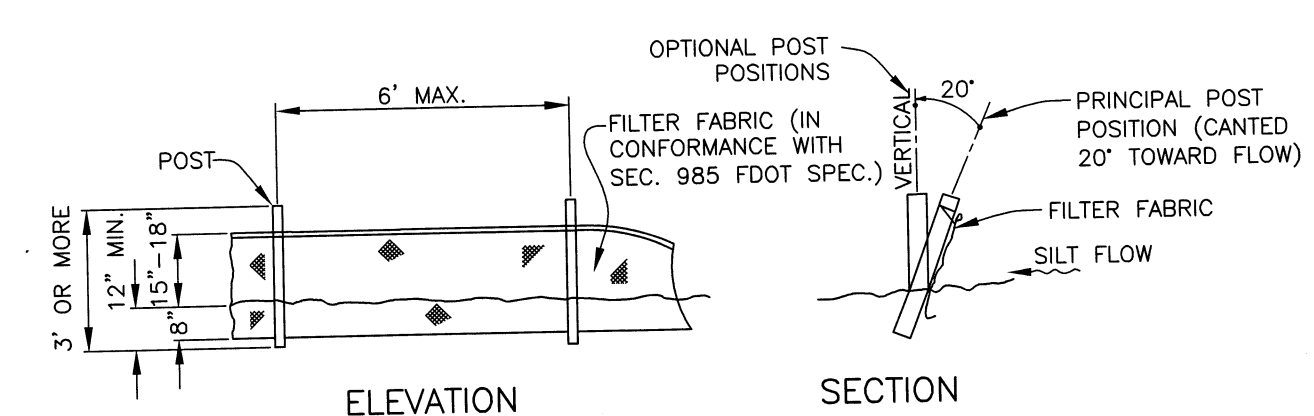
PROJECT #	-
SURVEY #	-
SEC./TWN./RGE	-
SCALE	-

	BY	DATE
SURVEYED	-	-
DESIGNED	JS/BR/CB	3/14/2011
DRAWN	BR/CB	3/28/2011
CHECKED	JS	-

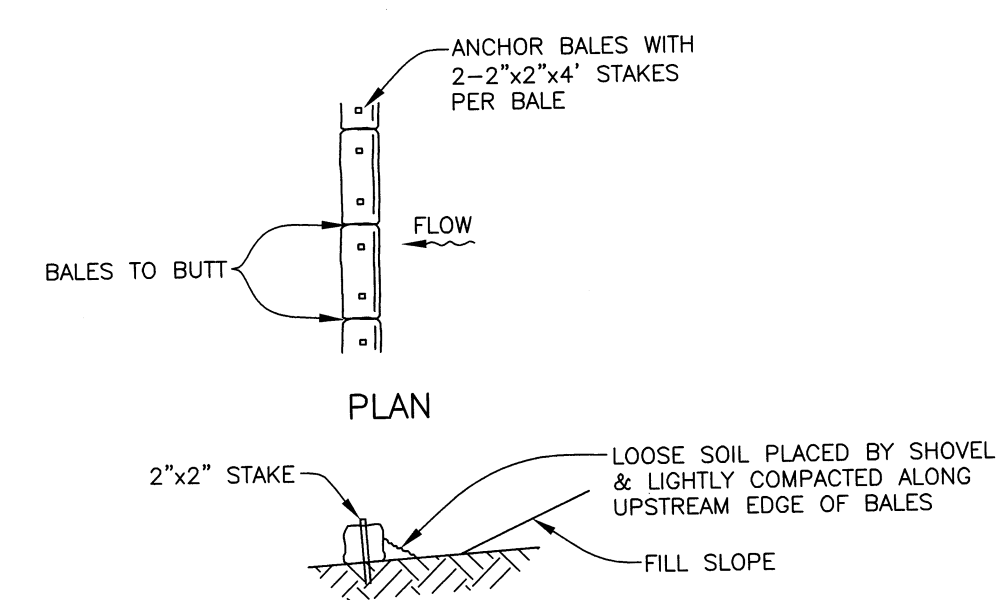
JAMES STOCKWELL, P.E.
FLORIDA P.E. # 67198



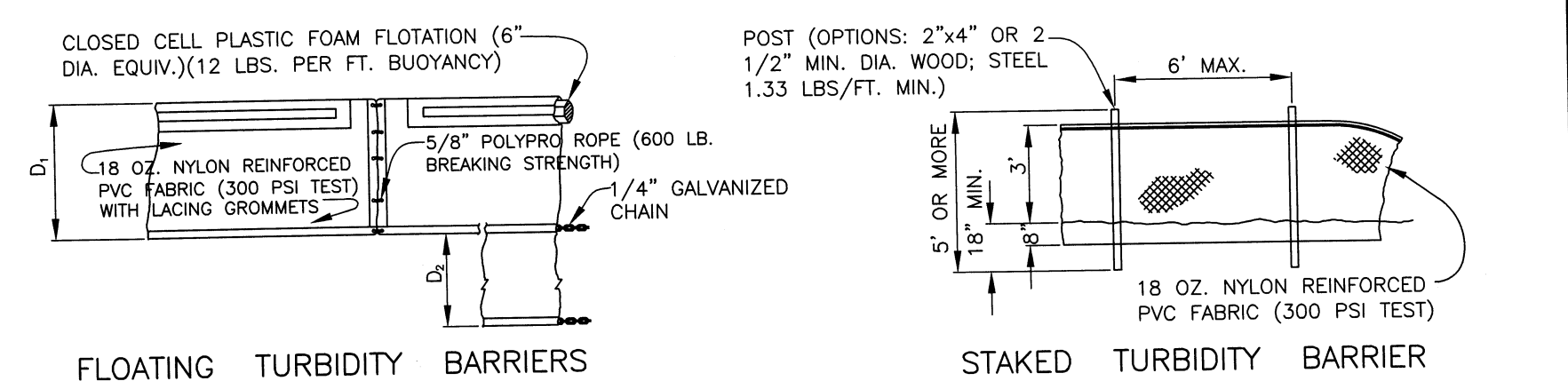
WETLAND BUFFER
FIGURE 1



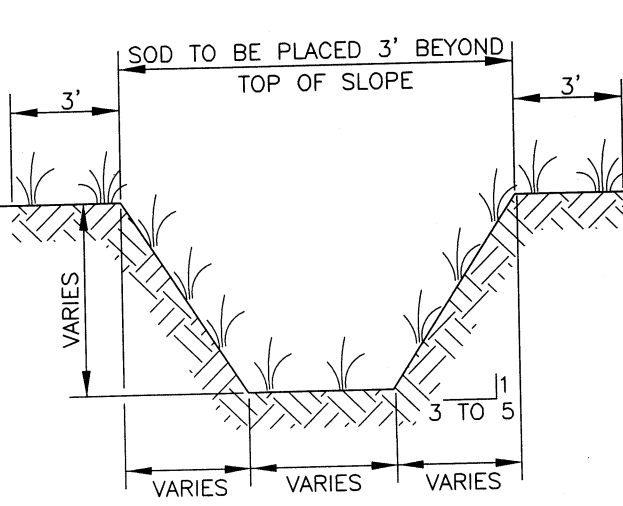
TYPICAL SILT FENCE
FIGURE 2



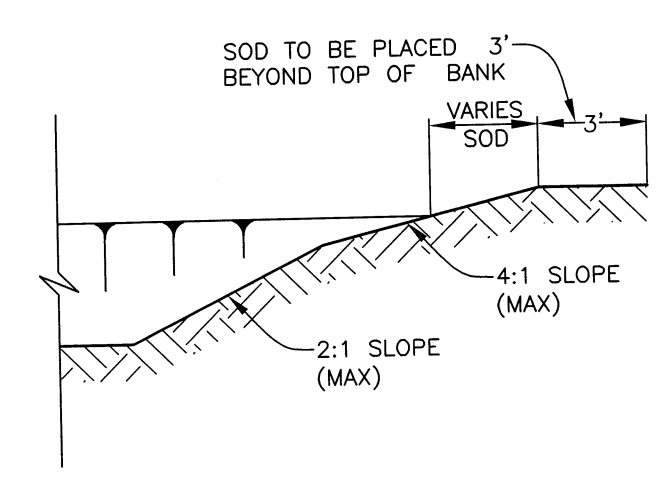
TYPICAL BALE SILT BARRIER
FIGURE 3



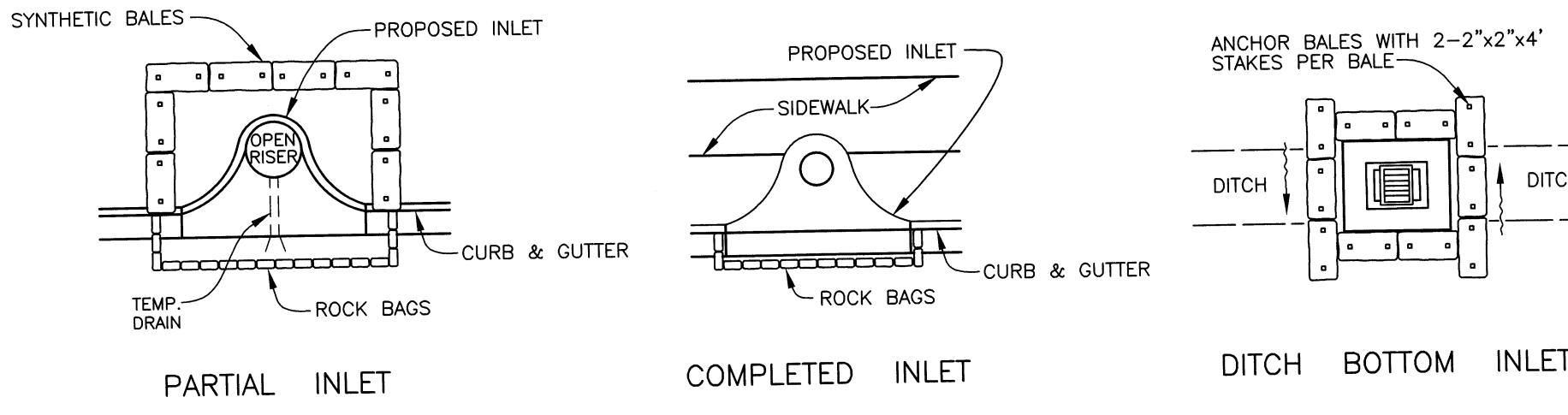
TURBIDITY BARRIERS
FIGURE 4



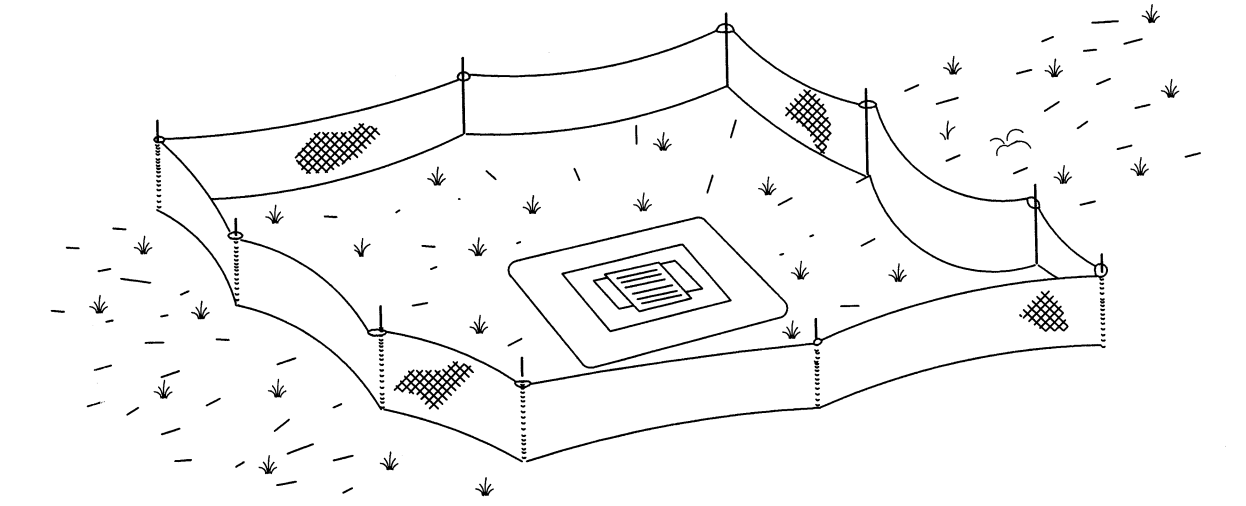
TYPICAL SWALE SECTION
FIGURE 5



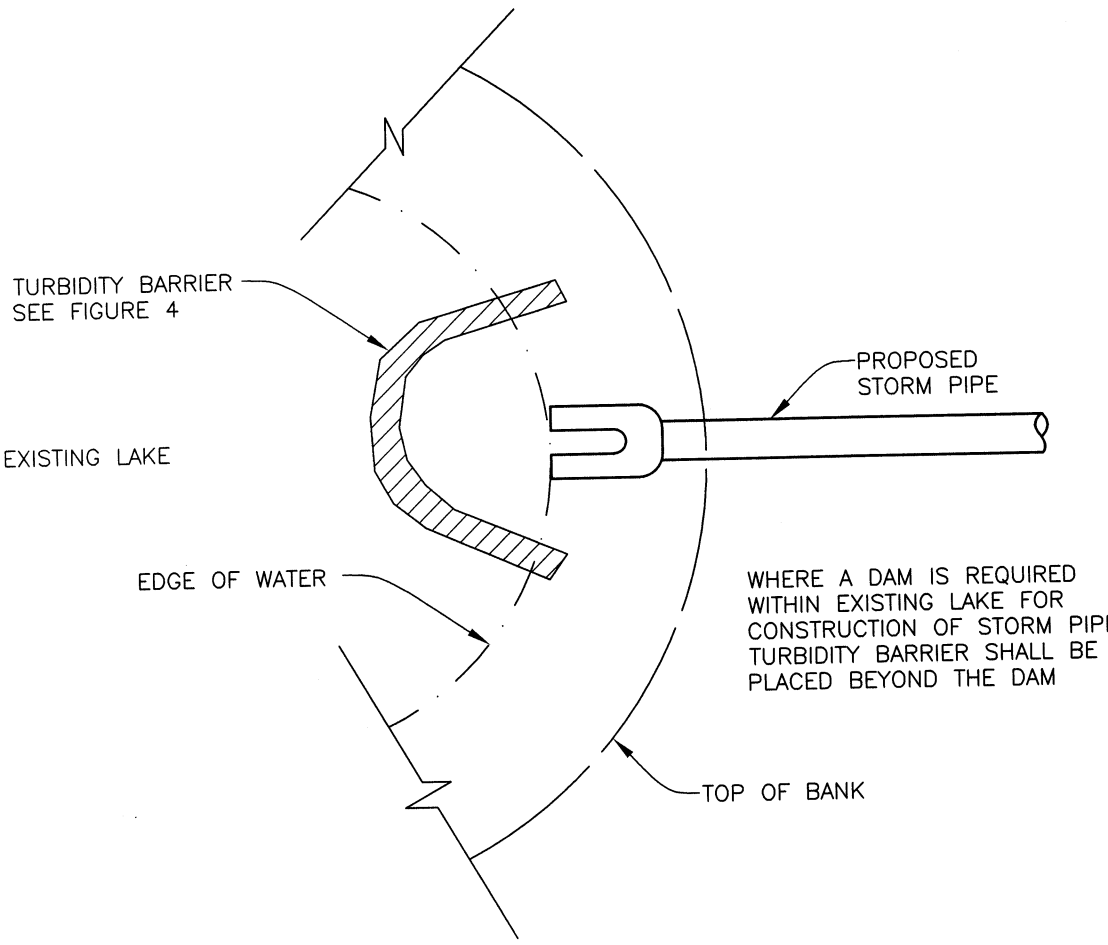
TYPICAL RETENTION/DETENTION POND SECTION
FIGURE 6



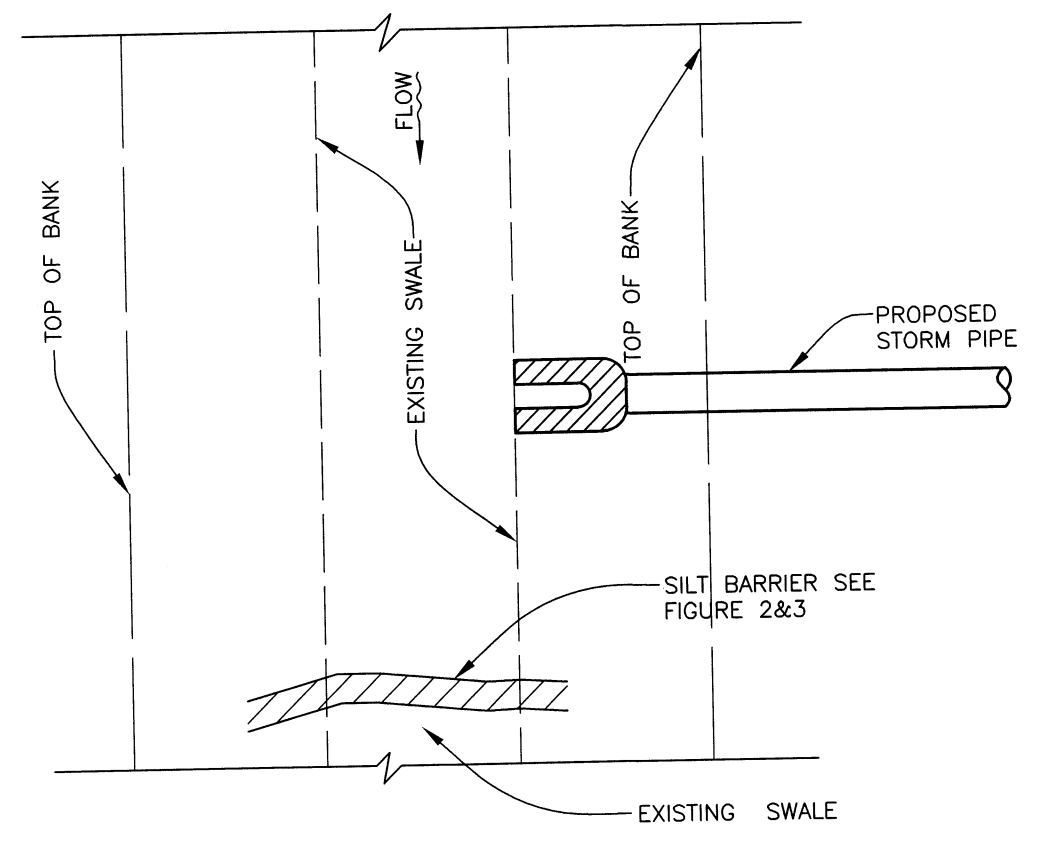
**SYNTHETIC BALE PROTECTION AROUND
INLETS OR SIMILAR STRUCTURES**
FIGURE 7



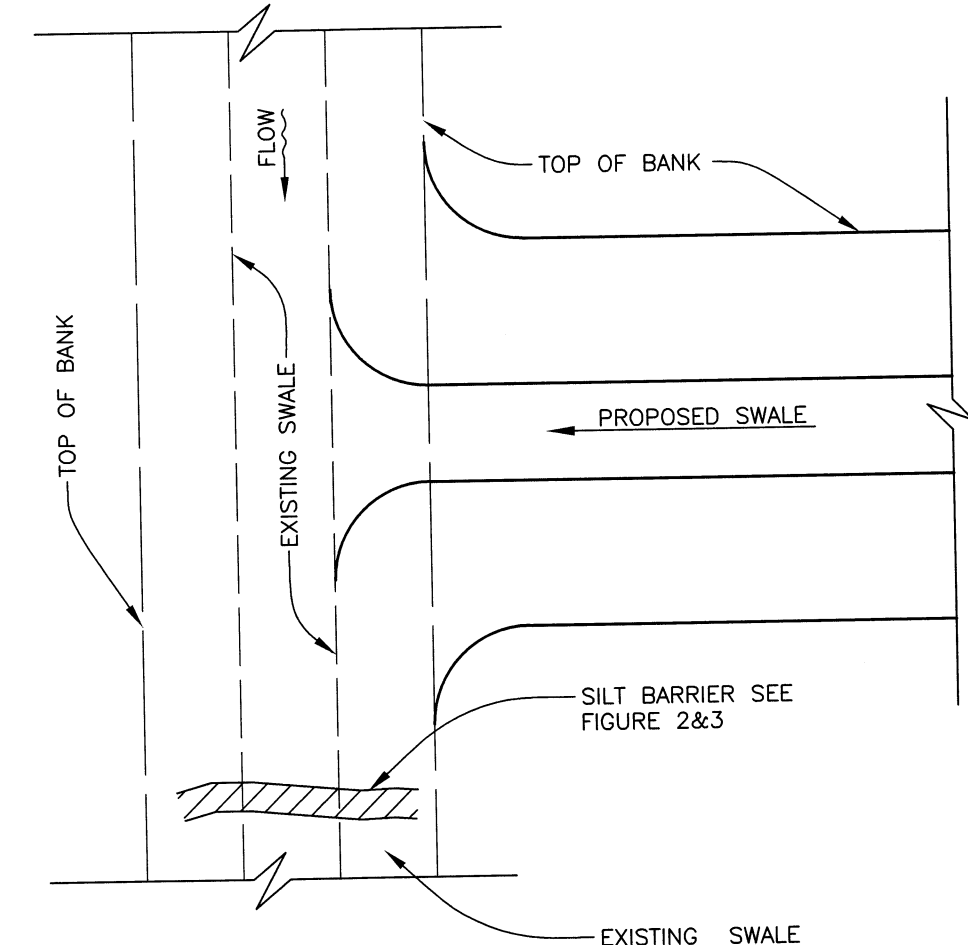
**TYPE III SILT FENCE PROTECTION
AROUND DITCH BOTTOM INLETS**
**STAKED SILT BARRIER OR SILT FENCE
PROTECTION AROUND DITCH BOTTOM INLETS**
FIGURE 8



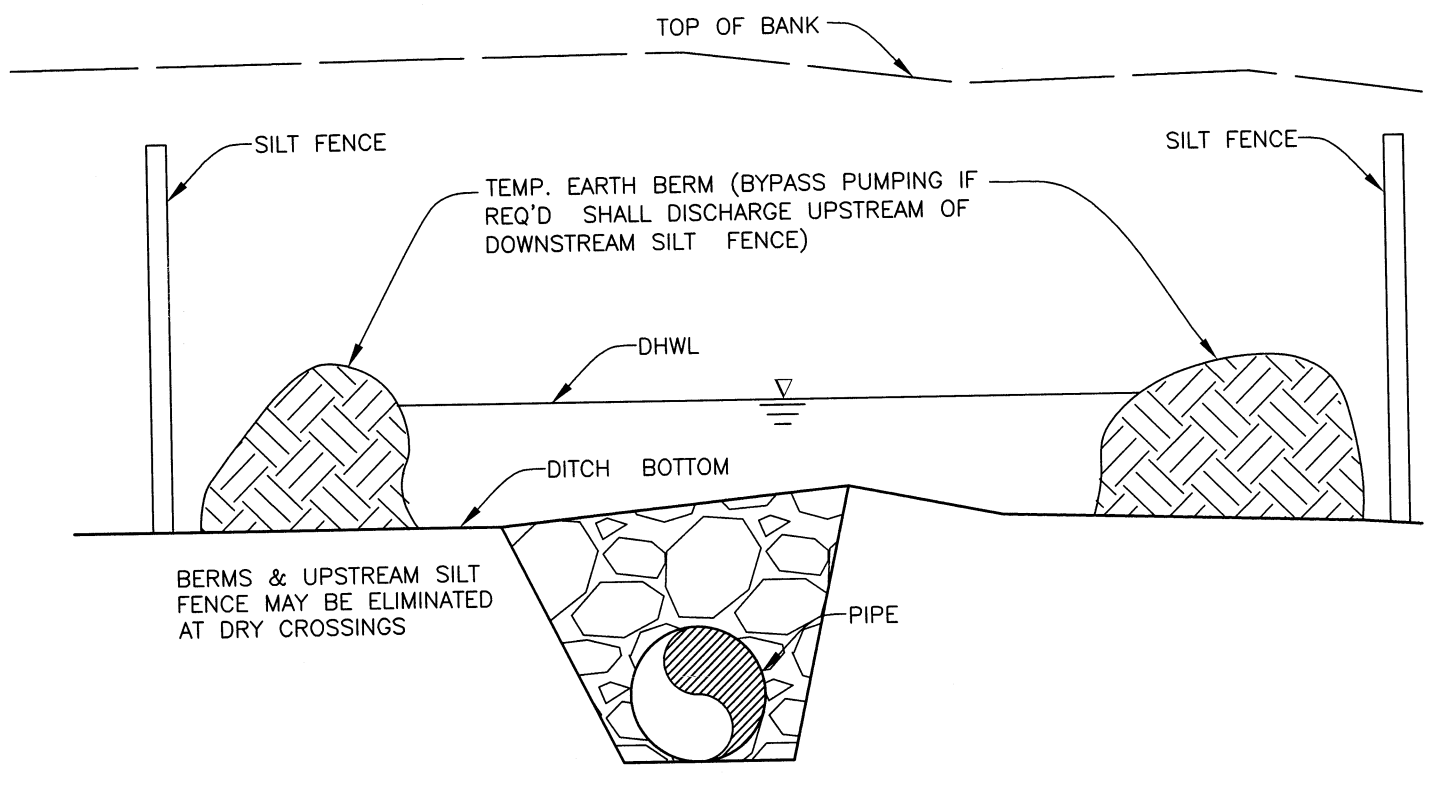
**TURBIDITY BARRIER AT CONNECTION OF
STORM PIPE TO EXISTING LAKE**
FIGURE 9



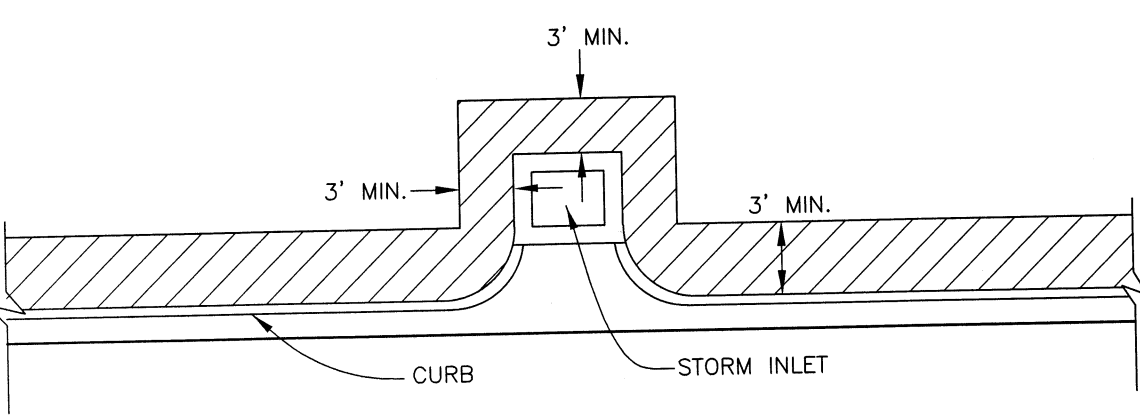
**SILT BARRIER AT CONNECTION OF
STORM PIPE TO EXISTING SWALE**
FIGURE 10



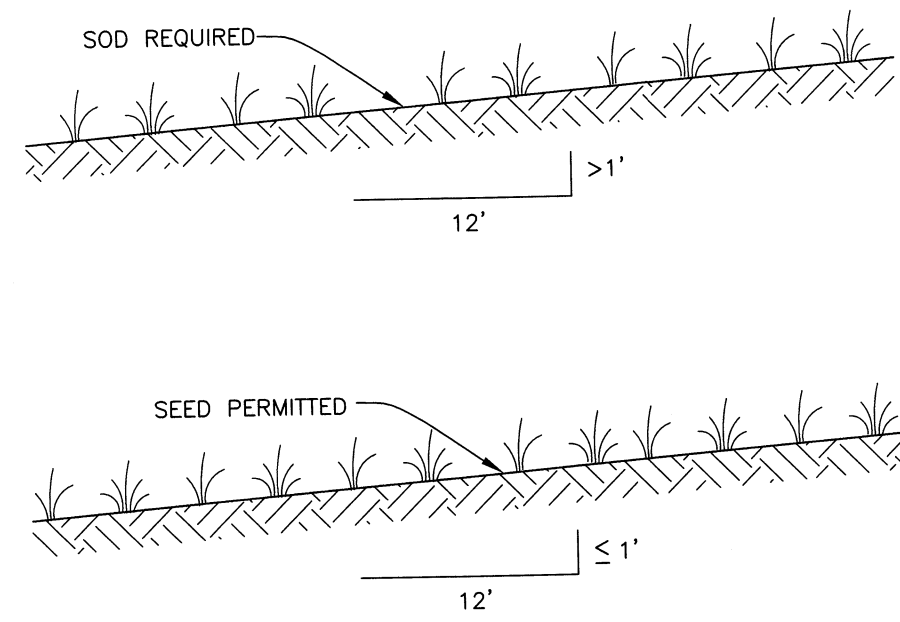
**SILT BARRIER AT CONNECTION
OF SWALE TO EXISTING SWALE**
FIGURE 11



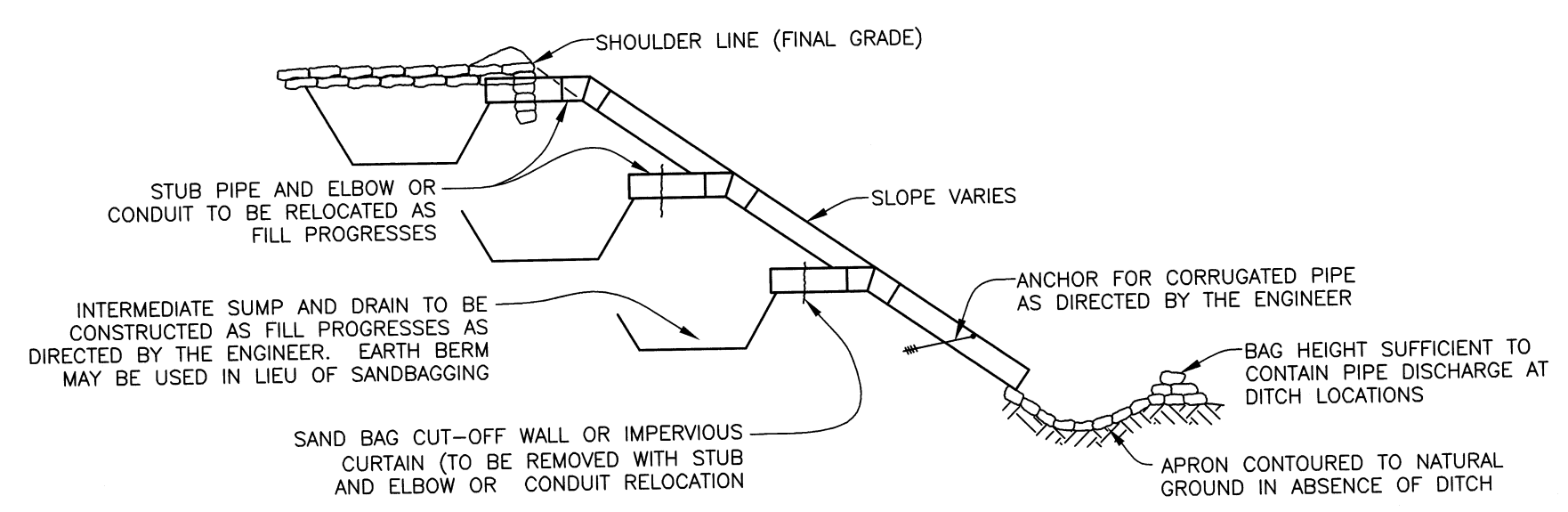
UNDERGROUND PIPE CROSSING
FIGURE 12



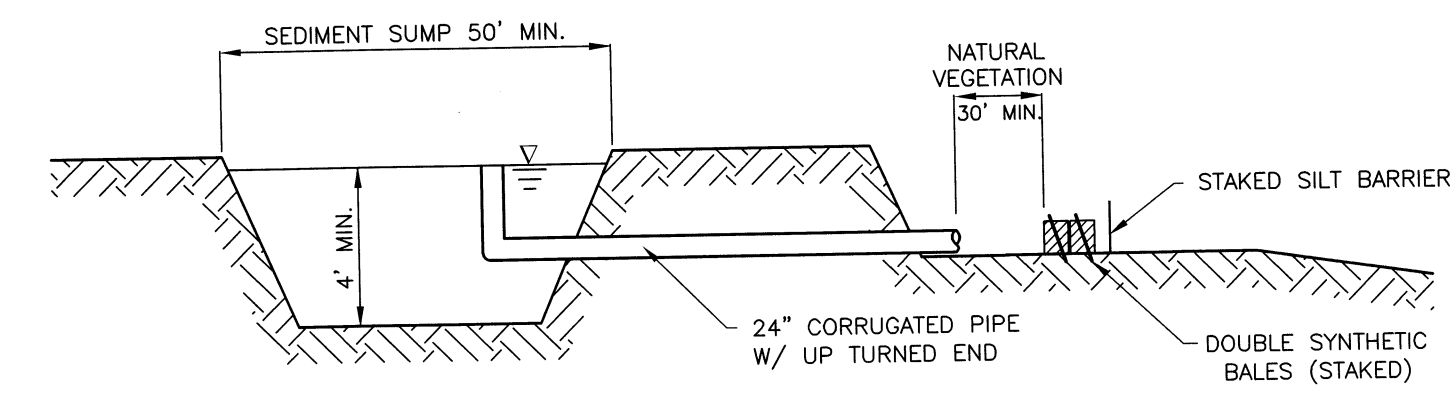
**SOD ALONG CURB
AND AROUND INLET**
FIGURE 14



GRASS SLOPES
FIGURE 13



**SECTION AA
TEMPORARY SLOPE DRAIN**
FIGURE 15



SEDIMENT SUMP SECTION
FIGURE 16

NOTE:
REFERENCE THE FDOT DESIGN STANDARDS
LATEST EDITION FOR ALL TEMPORARY
EROSION CONTROL MEASURES.

COPYRIGHT 2010 MANATEE COUNTY GOVERNMENT | S:\P.W.D. Engineering\Shore\LDI\Eng Design\Proj\San SWR\San SWR - LS Upgrades\Edema\2012 Edema\GENERAL\DWG\Edema\2012 GROUP A.dwg\Revision Control_6/22/2011 7:33 AM Bruce Robertson, L1_ARCH full bleed D (36.00 x 24.00 Inches)