

MANATEE COUNTY, FLORIDA

LIFT STATION UPGRADES, 2010 GROUP 3

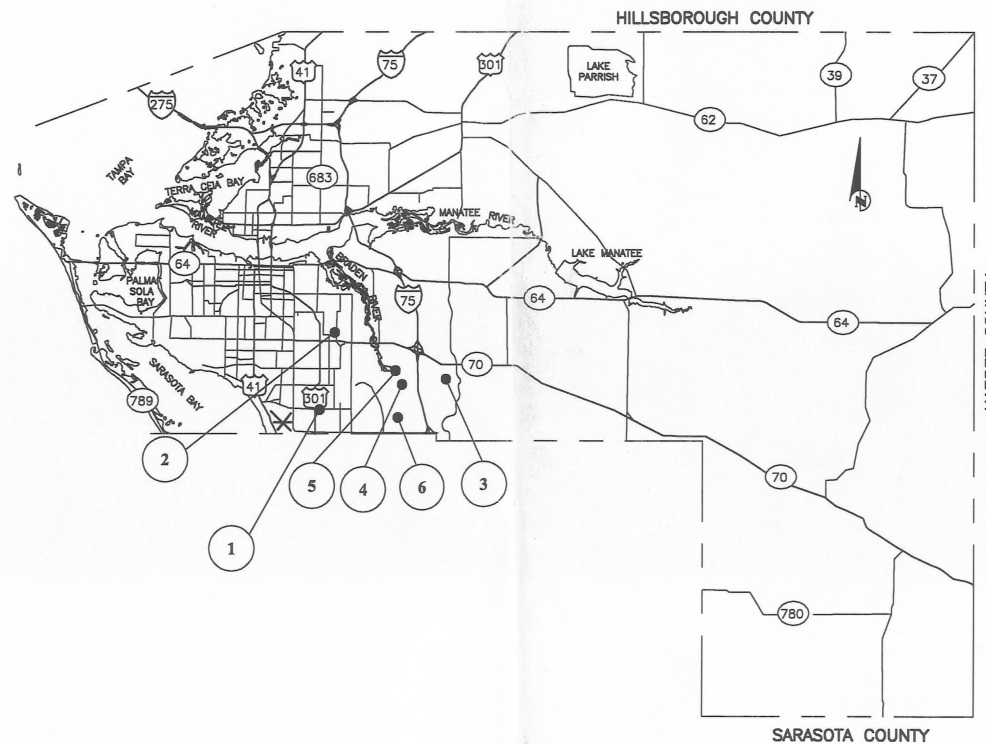
EMERGENCY GENERATORS

JULY 2010

L.S.NAME/NO.	RTU #	ADDRESS	PROJECT NUMBER	GENERATOR TYPE
3-A	487	2850 TELLEVAST RD.	402-5116881	DIESEL
MANATEE OAKS	474	4702 34th. CT. E.	402-5125980	DIESEL
RIVER CLUB 3	347	10205 CLUB HOUSE DR.	402-5126480	DIESEL
RIVER PLACE	635	6915 TARA BLVD.	402-5126580	DIESEL
TARA 5	354	6514 TURNER GAP RD.	402-5124184	DIESEL
UNIVERSITY PARK	483	6926 LANGLEY PL.	404-6075580	DIESEL

100% PLANS

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Per MCG LDC, 103.2.4.1: Utility Installations (except substations) are exempt from the regulations of the code.

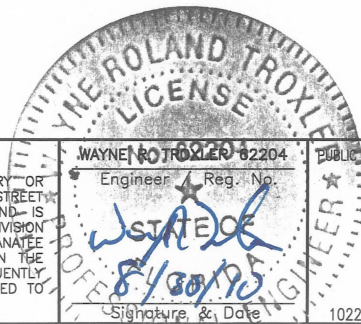
Per FL Statutes, 403.087.5: Construction Permits not required if installation is in response to NPDES requirements.

Rule 62-604.600(2)(f) FL Administrative Code: Modifications to lift stations associated with ancillary and electrical equipment and structures are exempt from FDEP Construction Permits.

FL State Statues, FL 62-762, Above ground diesel fuel storage tanks exempt if under 550 gallons.

PROJECT DESCRIPTION

INSTALL SIX (6) DIESEL EMERGENCY GENERATOR SETS AT SELECTED LIFT STATION IN ORDER TO MAINTAIN CONTINUOUS OPERATION IN THE EVENT THAT THE PRIMARY POWER SOURCE IS NOT AVAILABLE. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING, AT HIS OWN EXPENSE, WHAT IS NECESSARY TO OBTAIN ALL PERMITS REQUIRED FOR THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING RECORD DRAWINGS TO THE COUNTY.



SEC, TWP, RGE	35-34S-17E		
SURVEY BOOK NO.	VARIES		
PROJECT NUMBER	VARIES		
	By	Checked	Date
Surveyed	MCS	JEA	11/24/09
Drawn	JEA	WRT	11/30/09
Designed	WRT	JEA	11/25/09

NO.	REVISION DESCRIPTION	BY	DATE

**LIFT STATION UPGRADES, 2010 GROUP 3
EMERGENCY GENERATORS**

COVER SHEET

S:\P\Engineering\Sharon\U01_Eng_Design\Projects\2010\2010-08-04 AM Jim Anderson_12.0905_11x17

GENERAL

- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: **SAL BORDONARO** AND CAN BE REACHED AT (941) 708-7450. EXT. 7341
- SITE VISITS ARE MANDATORY FOR ALL BIDDERS. THESE SITE VISITS CAN BE ARRANGED THROUGH THE PROJECT MANAGER .
- ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE **LATEST EDITION OF MANATEE COUNTY UTILITY AND TRANSPORTATION STANDARDS** AND/OR FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" UNLESS OTHERWISE INDICATED ON THE PLANS.
- 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).
- 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.
- 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.
- 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.
- 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.
- 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

- 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.
- THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.
- THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.

ENVIRONMENTAL

- 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.
- 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.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY STORM WATER, EROSION, AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE FDEP "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.
- 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.
- 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.
- 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.
- 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.
- 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.
- ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.
- 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.
- FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.

RIGHT-OF-WAY

- ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
- 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.
- 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.
- 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.
- 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.
- 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.

- 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

- 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.
- 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.
- 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.
- 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.
- 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

- ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
- 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.
- 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.
- ASPHALT DRIVES THAT ARE CUT SHALL BE RESTORED PER SECTION 02513.
- 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.
- 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.
- 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

- THE EX-HAUST 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 BAFFELS POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES, AS APPROVED BY THE ENGINEER.
- 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.
- THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
- INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.
- PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA.
- THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM.
- 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.
- ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.
- ALL PIPE AND FITTINGS SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND ALL PIPE JOINTS SHALL BE RESTRAINED WHERE REQUIRED.
- 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.
- 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.
- 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.
- 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.
- ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
- ALL PENETRATION OF EXISTING STRUCTURES SHALL BE BY THE MECHANICAL ROTARY CORE BORING METHOD.
- ALL CONCRETE PENETRATED OR DISTURBED SHALL BE COATED WITH TWO COATS OF EPOXY.
- 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, WBFD RADIO, EMERGENCY COMMUNITY CENTERS, INSPECTIONS, WATER TREATMENT PLANT, WATER MANAGER, HELPLINE, CUSTOMER SERVICE, AND THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT.
- ALL NEW PIPE LINES SHALL BE PIG CLEANED (4" AND LARGER), FLUSHED, PRESSURE TESTED, DISINFECTED AND CERTIFIED PRIOR TO TIE-INS TO EXISTING UTILITIES. THE CONTRACTOR WILL BE ALLOWED TO USE TEMPORARY PLUGS FOR PIG CLEANING AND PRESSURE TESTING.
- 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.

- 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 02084 OF THE SPECIFICATIONS FOR GROUTING OF ABANDONED PIPE.
- 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.
- FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.
- CONTRACTOR SHALL PREPARE RECORD DRAWINGS IN ACCORDANCE WITH CURRENT MANATEE COUNTY UTILITY STANDARDS AT NO COST TO OWNER. RECORD DRAWINGS SHALL BE SEALED BY A SURVEYOR LICENSED BY THE STATE OF FLORIDA. RECORD DRAWING REQUIREMENTS SHALL BE STRICTLY ENFORCED.

CONTACTS

MANATEE COUNTY PUBLIC WORKS DEPT. WAYNE TROXLER, P.E. 1022 28TH 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	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	DEPARTMENT OF ENVIRONMENTAL PROTECTION STEPHANIE BARIOS 13051 N. TELECOM PKWY TEMPLE TERRACE, FL. 33637 PHONE: (813) 632-7600, EXT. 408 FAX: (813) 632-7662
TECO/PEOPLES GAS CO. DAN SHANAHAN 8261 VICO COURT SARASOTA, FL. 34240 (941) 342-4030 FAX: (941) 342-4011 EMERGENCY: 1-877-832-6911	FLORIDA POWER & LIGHT GREG COKER 1283 12TH AVENUE EAST PALMETTO, FL. 34221 (941) 723-4430 FAX: (941) 723-4444 EMERGENCY: 1-800-4-OUTAGE Greg.Coker@fpl.com	FLORIDA GAS TRANSMISSION SAFETY HARBOR TEAM 7804 ANDERSON RD. TAMPA, FL. 33634 CHRIS LEE (813) 468-3327 CELL : (727) 639-7512	BRIGHT HOUSE NETWORKS TOM WRIGHT 5413 E. STATE ROAD 64 BRADENTON, FL. 34208-5535 (941) 748-3816 EXT. 21348 Tom.Wright@mybrighthouse.com
SUNSHINE STATE ONE CALL OF FLORIDA 1-(800) 432-4770	MANATEE COUNTY HEALTH DEPT. HARRY MESSICK 410 8th AVENUE EAST BRADENTON, FL. 34208 (941) 748-0747 EXT. 1355 FAX: (941) 750-9364		PEACE RIVER ELECTRIC COOPERATIVE, INC. P.O. BOX 1310 WACHULA, FL. 33873 KENDELL COKER (863) 767-4660 kendell.coker@preco.coop

SEC, TWP, RGE	35-34S-17E		
SURVEY BOOK NO.			
PROJECT NUMBER	VARIES		
	By	Checked	Date
Surveyed	MCS	JEA	11/24/09
Drawn	JEA	WRT	11/30/09
Designed	WRT	JEA	11/25/09

NOTE:
 THESE PLANS DO NOT REFLECT A TRUE BOUNDARY OR RIGHTS-OF-WAY SURVEY. THE LOCATION OF THE STREET RIGHTS-OF-WAY LINES SHOWN IS APPROXIMATE AND IS BASED ON INFORMATION CONTAINED IN THE SUBDIVISION PLATS, RIGHTS-OF-WAY MAPS ON RECORD IN MANATEE COUNTY AND ON TOPOGRAPHIC DATA COLLECTED ON THE ROUTE SURVEY OF THE RIGHTS-OF-WAY. CONSEQUENTLY THE RIGHTS-OF-WAY LINES SHOWN ARE NOT INTENDED TO INDICATE THE EXACT PROPERTY CORNERS.

NO.	REVISION DESCRIPTION	BY	DATE

**LIFT STATION UPGRADES, 2010 GROUP 3
EMERGENCY GENERATORS**

GENERAL NOTES AND LEGEND

Sheet
2
10

S:\BWD_Engineering_Shores\Util Design\Proj\SSAN SWR Proj\SSAN SWR - LS Upgrades\Items\2011 Eplans\Group 3 1022.dwg\General Notes & Legend, 8/27/2010 8:40 AM Jim Anderson, 12.0955, 11x17



3-A, RTU (487),
2850 TELLEVAST RD., BRADENTON



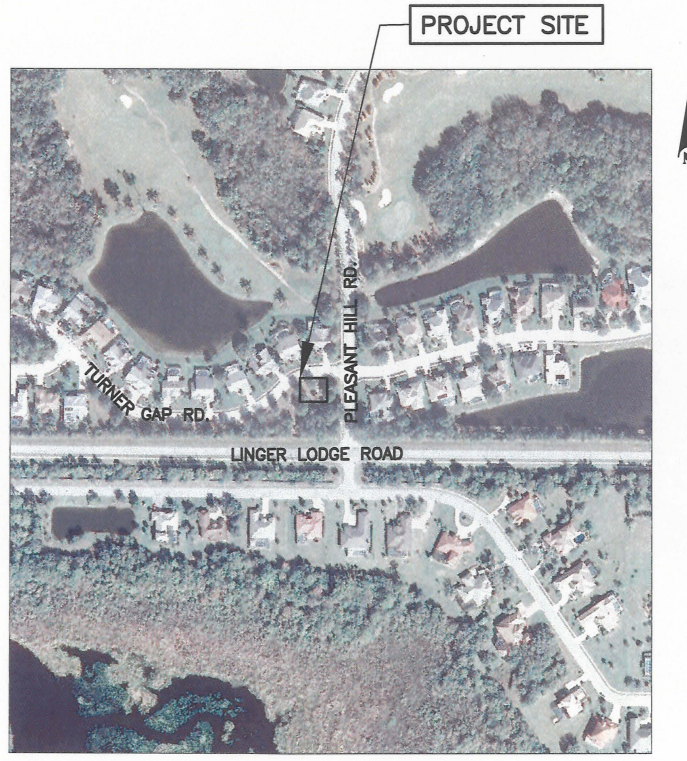
MANATEE OAKS, RTU (474),
4702 34TH CT. E., ONECO



RIVER CLUB 3, RTU (347),
10205 CLUB HOUSE DR., BRADENTON



RIVER PLACE, RTU (635),
6915 TARA BLVD., BRADENTON



TARA 5, RTU (354),
6514 TURNER GAP ROAD, BRADENTON



UNIVERSITY PARK, RTU (483),
6926 LANGLEYS PL., BRADENTON

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Designed	WRT	JEA	11/25/09

NOTE:
THESE PLANS DO NOT REFLECT A TRUE BOUNDARY OR RIGHTS-OF-WAY SURVEY. THE LOCATION OF THE STREET RIGHTS-OF-WAY LINES SHOWN IS APPROXIMATE AND IS BASED ON INFORMATION CONTAINED IN THE SUBDIVISION PLATS, RIGHTS-OF-WAY MAPS ON RECORD IN MANATEE COUNTY AND ON TOPOGRAPHIC DATA COLLECTED ON THE ROUTE SURVEY OF THE RIGHTS-OF-WAY. CONSEQUENTLY THE RIGHTS-OF-WAY LINES SHOWN ARE NOT INTENDED TO INDICATE THE EXACT PROPERTY CORNERS.

WAYNE No. 82204204
Engineer / Reg. No.
Signature & Date
8/31/10
PUBLIC WORKS DEPT.—ENGINEERING DIVISION
MANATEE COUNTY FLORIDA
1022 26th Avenue East, Bradenton, FL 34208

NO.	REVISION DESCRIPTION	BY	DATE

**LIFT STATION UPGRADES, 2010 GROUP 3
EMERGENCY GENERATORS**

VICINITY MAPS

Sheet 3 / 10



CONTRACTOR TO COORDINATE WITH LOCAL UTILITY TO REMOVE AERIAL FEED AND PROVIDE DROP UNDERGROUND FEED TO LIFT STATION.

APPROX. LOC. OF GENERATOR EXACT SIZE AND LOCATION TO BE DETERMINED

CONTROL PANEL MAIN BREAKER SD KAL36200

TDE

X 13.2

X 17.2

TALLEVAST INDUSTRIAL PARK
(PLAT BOOK 21, PAGE 198)
RESERVED FOR RETENTION
(LAKE NOT LOCATED)

PARCEL ID# 1972810609
2850 TALLEVAST ROAD
PUBLIC LIFT STATION

5' NON-VEHICULAR ACCESS
EASEMENT

SITE BENCH MARK #27
(ELEVATION = 18.70)

SANITARY MANHOLE
RIM ELEV. = 18.36

TALLEVAST ROAD (77TH AVENUE - WEST)
(PUBLIC RIGHT-OF-WAY WIDTH VARIES)

NOTES:

- UNLESS NOTED, LOCATIONS LIMITED TO -- OBSERVABLE, ABOVE GROUND IMPROVEMENTS. NO UNDERGROUND IMPROVEMENTS HAVE BEEN LOCATED EXCEPT THOSE SHOWN HEREON. SOME FEATURES MAY BE EXAGGERATED FOR CLARITY. DIMENSIONS SHOWN SUPERSEDE SCALED DIMENSIONS.
- THIS SURVEY DOES NOT CERTIFY OR WARRANTY: TITLE, ZONING, EASEMENTS, OR FREEDOM FROM ENCUMBRANCES.
- NO TITLE SEARCH PROVIDED TO THIS SURVEYOR REFLECTING EASEMENTS, RIGHTS-OF-WAY AND/OR OWNERSHIP EXCEPT AS SHOWN AND/OR NOTED HEREON.
- THIS DRAWING IS NOT VALID WITHOUT THE ORIGINAL RAISED SEAL AND SIGNATURE OF THE FLORIDA REGISTERED SURVEYOR & MAPPER SHOWN HEREON. AN ELECTRONIC COPY OF THIS DRAWING MUST BE VERIFIED WITH A SIGNED AND SEALED DRAWING OF THE SAME.
- ADDITIONS OR DELETIONS TO THIS SKETCH OF SURVEY BY OTHER THAN THE SIGNING PARTY IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY.
- SUBJECT TO EASEMENTS, DEDICATIONS, RIGHT-OF-WAYS AND RESTRICTIONS OF RECORD NOT PROVIDED TO THE SURVEYOR AND MAPPER.
- ALL MEASUREMENTS SHOWN HEREON ARE FIELD MEASURED UNLESS SPECIFICALLY ANNOTATED, NOTED OR OTHERWISE STATED ON THIS SKETCH OF SURVEY.
- THE BEARING BASIS FOR THIS SURVEY IS GRID S00°55'55"E, NORTH AMERICAN DATUM 1983, BASED ON STATE PLANE COORDINATE SYSTEM 1983/1999, FLORIDA WEST ZONE AND IS BASED ON MANATEE COUNTY GEOGRAPHIC INFORMATION SYSTEM MONUMENTS M 084, (N)27 28 35.49937 LATITUDE, (W)082 29 57.46109 LONGITUDE AND M 085, (N)27 23 19.34917 LATITUDE, (W)082 29 50.27767 LONGITUDE. THE PUBLISHED VALUES WERE TAKEN FROM DATA SHEETS PUBLISHED ON THE NATIONAL GEODETIC SURVEY WEB SITE. THESE POINTS ARE 1ST ORDER HORIZONTAL CONTROL AND WERE USED TO VERIFY THE ACCURACY OF A REAL TIME KINEMATIC GLOBAL POSITIONING BY SATELLITE (RTK GPS) SURVEY AND WAS USED TO ESTABLISH GROUND CONTROL POINTS FOR A SPECIFIC PURPOSE SURVEY & TOPOGRAPHIC SURVEY. THE VERTICAL VALUES WERE NOT USED FOR THIS SURVEY DUE TO INCONSISTENCIES BETWEEN POINTS. THE FDOT SPIDER WEB NETWORK CONTINUOUS OPERATING BASE STATIONS WERE USED TO PRODUCE A SOLUTION WHICH YIELDED ERRORS OF 0.06' +/- N & S BY 0.08' +/- E & W AND WAS CONSIDERED AS ACCURATE AS NEEDED FOR THE TOPOGRAPHIC SURVEY OF THE LIFT STATION. THE CONTROL POINTS USED FOR THE SURVEY WERE SHOT AS OBSERVED CONTROL HOLDING AN AVERAGE OF THE 180 EPOCHS (ONE SHOT EVERY SECOND FOR 3 MINUTES) TO COMPUTE THE HORIZONTAL POSITION. LOCATIONS WERE MADE TO THE PUBLISHED CONTROL POINTS AT THE BEGINNING AND END OF EACH SESSION AS A CHECK. THERE WAS NO SIGNIFICANT DIFFERENCE IN THE FIELD MEASURED VALUES DURING THE RTK GPS PROCESS OVER A COUPLE OF DAYS.
- THE ELEVATIONS SHOWN HEREON ARE BASED ON MANATEE COUNTY BENCHMARK 58-29-03, RIVET AND MANATEE COUNTY DISK IN THE CENTERLINE OF A "U" SHAPED HEADWALL, 40' +/- SOUTH OF THE SOUTH ENTRANCE TO BEAUTIFUL SAVIOR CHURCH, ON THE WEST SIDE OF PROSPECT ROAD. ELEVATION = 17.746' (NOT PICTURED ON SURVEY). NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD29).
- SITE BM # 1, SET TRIANGLE CUT IN THE CENTERLINE, +/-, OF THE SIDEWALK, 28' EASTERLY OF THE CENTERLINE OF 28TH STREET COURT EAST AND AT THE NORTHERLY RIGHT OF WAY OF TALLEVAST ROAD, 7' +/- SOUTH OF FIRE HYDRANT (AT NORTH RIGHT OF WAY) ELEVATION = 18.68', AS SHOWN ON THIS SURVEY. NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD29).
- SITE BM # 2, SET RIVET AND GOLD DISK AT THE NORTH EDGE OF SIDEWALK 33' +/- WEST OF THE CENTERLINE OF THE WET WELL, ELEVATION = 18.70', AS SHOWN ON THIS SURVEY. NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD29).
- THIS SURVEY IS NOT CERTIFIED TO ANY OTHER STANDARDS UNLESS SPECIFICALLY STATED OR LISTED HEREON.
- PARCEL INFORMATION SHOWN ON THIS SURVEY WAS TAKEN FROM THE MANATEE COUNTY PROPERTY APPRAISERS WEB SITE AND IS SUBJECT TO VERIFICATION.
- THE SUBJECT PROPERTY LIES IN FLOOD ZONE "X", PER FLOOD INSURANCE RATE MAP COMMUNITY-PANEL NUMBER 120153 0344 C, MAP REVISED JULY 15, 1992 AND IS SUBJECT TO VERIFICATION BY THE PERMITTING DEPARTMENT OR FLOOD PLAIN MANAGEMENT DEPARTMENT.
- THE INTENDED DISPLAY SCALE OF THIS 24"x 36" PAPER SKETCH OF SURVEY IS 1" = 10' OR SMALLER. THE ELECTRONIC DATA FILE OF THIS SURVEY IS INTENDED TO BE AT A SCALE OF 1 TO 1.

NOTE: THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) WAS FORMERLY KNOWN AS (DNR) THE DEPARTMENT OF NATURAL RESOURCES (DNR) AND ARE ONE IN THE SAME. THE DEP IS CURRENTLY THE REPOSITORY FOR ALL OF THE CERTIFIED CORNER RECORDS FOR SECTIONALIZED LAND.

NOTE: THE TRACT BOUNDARY LINES, CENTERLINE, EASEMENT LINES AND CALCULATED INFORMATION SHOWN HEREON FOR THIS TOPOGRAPHIC SURVEY IS BASED ON EXISTING MONUMENTATION SHOWN ON THIS SKETCH OF SURVEY AS IT RELATES TO THE RECORD PLAT FOR TALLEVAST INDUSTRIAL PARK.

TREE LEGEND:

- ⊙ = OAK TREE
- ✱ = PALM TREE
- ⊙ = HICKORY TREE
- ⊙ = UNKNOWN TREE
- SIZE IN INCHES DIAMETER
- BREAST HEIGHT

TOPOGRAPHIC SURVEY

TO LOCATE FEATURES IN AND AROUND THE LIFT STATION, PARCEL ID# 1972810609, 2850 TALLEVAST ROAD PUBLIC LIFT STATION RTU 487, TALLEVAST INDUSTRIAL PARK (PLAT BOOK 21, PAGE 198) IN SECTION 29, TOWNSHIP 35 SOUTH, RANGE 18 EAST MANATEE COUNTY, FLORIDA

LEGEND		LEGEND		LEGEND	
BWF = BARBED WIRE FENCE	FCM = FOUND CONC. MONUMENT	LS = LICENSED SURVEYOR	PB = PLAT BOOK	RSM = REGISTERED SURVEYOR & MAPPER	⊙ = CLEAN OUT (CO)
C = CURVE	FIP = FOUND IRON PIPE	(L&S) = LOMBARDO & SKIPPER	PC = POINT OF CURVATURE	R/W = RIGHT-OF-WAY	⊙ = SIGN
(C) = CALCULATED DIMENSION	FIP = FOUND IRON PIPE	(M) = FIELD MEASURED DIMENSION	POB = POINT OF BEGINNING	Sec. = SECTION	⊙ = UTILITY POLE
CB = CHORD BEARING	(NO ID, SIZE NOTED)	MH = MANHOLE	POC = POINT OF COMMENCEMENT	S/W = SIDE WALK	⊙ = GUY WIRE ANCHOR
CH = CHORD	FIRC = FOUND IRON ROD&CAP	NGVD = NATIONAL GEODETIC VERTICAL DATUM	PI = POINT OF INTERSECTION	TB = TOP OF BANK	⊙ = WATER VALVE
CI = CURB INLET	(ID & SIZE NOTED)	NMF/S = NO MONUMENT FOUND OR SET	PRC = POINT OF REVERSE CURVE	Twn. = TOWNSHIP	⊙ = SEWER VALVE
CLF = CHAIN LINK FENCE	FIR = FOUND IRON ROD	MNF = MASONRY NAIL FOUND	PRM = PERMANENT REFERENCE MONUMENT	(TYP.) = TYPICAL	⊙ = SANITARY SEWER
CMP = CORRUGATED METAL PIPE	(NO ID, SIZE NOTED)	MNS = MASONRY NAIL SET	PSM = PROFESSIONAL SURVEYOR & MAPPER	WM = WITNESS MONUMENT	⊙ = ELEV./SPOT ELEV.
CONC. = CONCRETE	SIRC = SET IRON ROD & CAP 5/8"	NDF = NAIL & DISK FOUND (ID NOTED)	N.P.D. = NO PLAT DATA	WF = WOOD FENCE	⊙ = SITE BENCH MARKS
(D) = DEED DIMENSIONS	ID = IDENTIFICATION	NDS = NAIL & DISK SET	RAD = RADIUS	⊙ = CENTER LINE	⊙ = 60 PENNY NAILS SET
ES = EDGE OF SHELL ROAD, +/-	INV. = INVERT	O.R. = OFFICIAL RECORDS	RCP = REINFORCED CONC. PIPE	FPAL = FLORIDA POWER & LIGHT	⊙ = BENCH MARK (BM)
ELEV. = ELEVATION	LB = LICENSED BUSINESS	O/A = OVERALL	REG = REGISTERED	+/- = MORE OR LESS	⊙ = WATER METER
EP = EDGE OF PAVEMENT		(P) = PLAT DIMENSION	Rge. = RANGE		

WAYNE R. TROXLER
ENGINEER
REG. NO. 62204
Signature & Date



PUBLIC WORKS DEPT.-ENGINEERING DIVISION

1022 26th Avenue East, Bradenton, FL 34208

NO.	REVISION DESCRIPTION	BY	DATE

**LIFT STATION UPGRADES, 2010 GROUP 3
EMERGENCY GENERATORS
3-A (RTU 487)**

PLAN & PROFILE

SEC, TWP, RGE		35-34S-17E	
NOTE: THESE PLANS DO NOT REFLECT A TRUE BOUNDARY OR RIGHTS-OF-WAY SURVEY. THE LOCATION OF THE STREET RIGHTS-OF-WAY LINES SHOWN IS APPROXIMATE AND IS BASED ON INFORMATION CONTAINED IN THE SUBDIVISION PLATS, RIGHTS-OF-WAY MAPS ON RECORD IN MANATEE COUNTY AND ON TOPOGRAPHIC DATA COLLECTED ON THE ROUTE SURVEY OF THE RIGHTS-OF-WAY. CONSEQUENTLY THE RIGHTS-OF-WAY LINES SHOWN ARE NOT INTENDED TO INDICATE THE EXACT PROPERTY CORNERS.			
SURVEY BOOK NO.			
PROJECT NUMBER 402-5116881			
By	Checked	Date	
Surveyed	MCSJ	JEA	11/24/09
Drawn	JEA	WRT	11/30/09
Designed	WRT	JEA	11/25/09

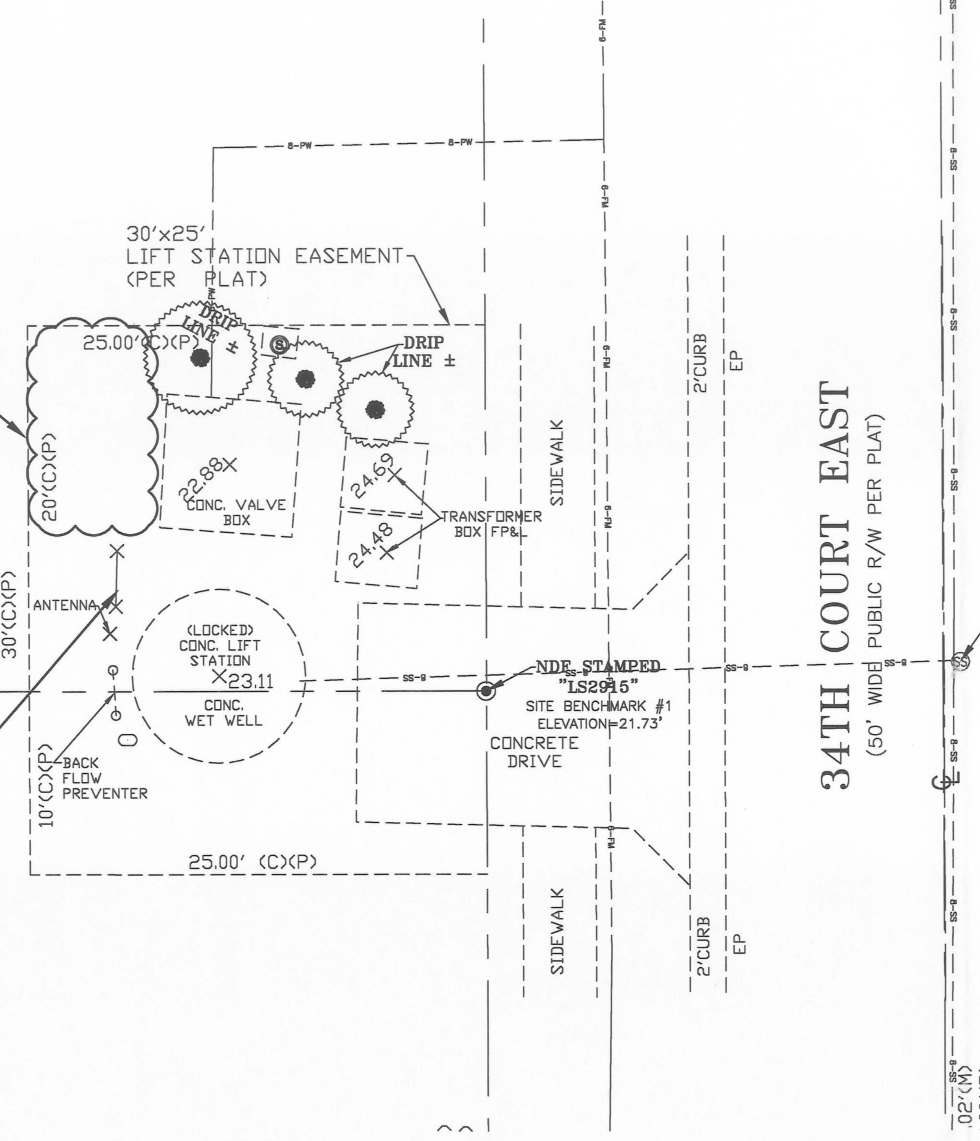
S:\P\02\Engineering\Share\W\Eng Design\Proj\SSM_SRR_Proj\Scan_Svr - LS Upgrades\Plans\2011_Egens\MANATEE_OAKS (RTU 474) DMS\MANATEE_OAKS (RTU 474) 100% COMBINED.dwg SITE PLAN, 8/27/2010 8:42 AM Jim Anderson, 1:2:0857, 11x17

APPROX. LOCATION OF GENERATOR EXACT SIZE AND LOCATION TO BE DETERMINED.

PARCEL ID# 1684825159
3328 46TH PLAZA EAST
LOT 55

CONTROL PANEL MAIN BREAKER WH SDQOU360

PARCEL ID# 1684825100
3327 47TH AVENUE EAST
LOT 54



Scale: 1" = 5'

- NOTES:**
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 - THIS SURVEY DOES NOT CERTIFY OR WARRANTY: TITLE, ZONING, EASEMENTS, OR FREEDOM FROM ENCUMBRANCES.
 - NO TITLE SEARCH PROVIDED TO THIS SURVEYOR REFLECTING EASEMENTS, RIGHTS-OF-WAY AND/OR OWNERSHIP EXCEPT AS SHOWN AND/OR NOTED HEREON.
 - THIS DRAWING IS NOT VALID WITHOUT THE ORIGINAL RAISED SEAL AND SIGNATURE OF THE FLORIDA REGISTERED SURVEYOR & MAPPER SHOWN HEREON. AN ELECTRONIC COPY OF THIS DRAWING MUST BE VERIFIED WITH A SIGNED AND SEALED DRAWING OF THE SAME.
 - ADDITIONS OR DELETIONS TO THIS SKETCH OF SURVEY BY OTHER THAN THE SIGNING PARTY IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY.
 - SUBJECT TO EASEMENTS, DEDICATIONS, RIGHT-OF-WAYS AND RESTRICTIONS OF RECORD NOT PROVIDED TO THE SURVEYOR AND MAPPER.
 - ALL MEASUREMENTS SHOWN HEREON ARE FIELD MEASURED UNLESS SPECIFICALLY ANNOTATED, NOTED OR OTHERWISE STATED ON THIS SKETCH OF SURVEY
 - THE BEARING BASIS FOR THIS SURVEY IS GRID S89°18'03"E, NORTH AMERICAN DATUM 1983, BASED ON STATE PLANE COORDINATE SYSTEM 1983/1999, FLORIDA WEST ZONE AND IS BASED ON MANATEE COUNTY GEOGRAPHIC INFORMATION SYSTEM MONUMENTS M 082, (N)27 28 37.91854 LATITUDE, (W)082 35 45.48538 LONGITUDE AND M 084, (N)27 28 35.49937 LATITUDE, (W)082 29 57.46109 LONGITUDE. THE PUBLISHED VALUES WERE TAKEN FROM DATA SHEETS PUBLISHED ON THE NATIONAL GEODETIC SURVEY WEB SITE. THESE POINTS ARE 1ST ORDER HORIZONTAL CONTROL AND WERE USED TO VERIFY THE ACCURACY OF A REAL TIME KINEMATIC GLOBAL POSITIONING BY SATELLITE (RTK GPS) SURVEY AND WAS USED TO ESTABLISH GROUND CONTROL POINTS FOR A SPECIFIC PURPOSE SURVEY & TOPOGRAPHIC SURVEY. THE VERTICAL VALUES WERE NOT USED FOR THIS SURVEY DUE TO INCONSISTENCIES BETWEEN POINTS. THE FDOT SPIDER WEB NETWORK CONTINUOUS OPERATING BASE STATIONS WERE USED TO PRODUCE A SOLUTION WHICH YIELDED ERRORS OF 0.06' +/- N & S BY 0.07' +/- E & W AND WAS CONSIDERED AS ACCURATE AS NEEDED FOR THE TOPOGRAPHIC SURVEY OF THE LIFT STATION. THE CONTROL POINTS USED FOR THE SURVEY WERE SHOT AS OBSERVED CONTROL HOLDING AN AVERAGE OF THE 180 EPOCHS (ONE SHOT EVERY SECOND FOR 3 MINUTES) TO COMPUTE THE HORIZONTAL POSITION. LOCATIONS WERE MADE TO THE PUBLISHED CONTROL POINTS AT THE BEGINNING AND END OF EACH SESSION AS A CHECK. THERE WAS NO SIGNIFICANT DIFFERENCE IN THE FIELD MEASURED VALUES DURING THE RTK GPS PROCESS OVER A COUPLE OF DAYS.
 - THE ELEVATIONS SHOWN HEREON ARE BASED ON MANATEE COUNTY BENCHMARK 140-29-05 TRIANGLE CUT ON A CONCRETE APRON, LOCATED 118'+/- NORTH OF THE CENTER OF A CONCRETE DRIVEWAY AT HOUSE # 5017 37TH ST. E., AND 3' EAST OF THE EAST EDGE OF PAVEMENT, AT THE NORTHWEST CORNER OF APRON. ELEVATION = 17.855' (NOT PICTURED ON SURVEY) AND MANATEE COUNTY BENCHMARK 140-29-07 TRIANGLE CUT IN THE CENTER OF SIDEWALK, LOCATED 275'+/- NORTH OF THE CENTERLINE OF 46TH PLAZA E., 27'+/- WEST OF THE WEST EDGE OF PAVEMENT (37TH ST. E.), AND 16'+/- SOUTH OF THE NORTH END OF A CHAIN LINK FENCE GATE. ELEVATION = 19.380' (NOT PICTURED ON SURVEY). NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD29).
 - SITE BM # 1, NDF STAMPED "LS2915", LOCATED 13' +/- WEST OF THE EDGE OF PAVEMENT AND 2.17' NORTHWESTERLY OF THE CENTER OF THE CONCRETE DRIVE TO THE LIFT STATION, ELEVATION=21.73', AS SHOWN ON THIS SURVEY. NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD29).
 - SITE BM # 2, NDF STAMPED, "RJL LB2241", LOCATED AT THE INTERSECTION OF 34TH COURT EAST & 46TH PLAZA EAST, AND 155'+/- NORTHERLY OF THE LIFT STATION, RTU 474, ELEVATION=21.20', AS SHOWN ON THIS SURVEY. NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD29).
 - THIS SURVEY IS NOT CERTIFIED TO ANY OTHER STANDARDS UNLESS SPECIFICALLY STATED OR LISTED HEREON.
 - PARCEL INFORMATION SHOWN ON THIS SURVEY WAS TAKEN FROM THE MANATEE COUNTY PROPERTY APPRAISERS WEB SITE AND IS SUBJECT TO VERIFICATION.
 - THE SUBJECT PROPERTY LIES IN FLOOD ZONE "X", PER FLOOD INSURANCE RATE MAP COMMUNITY-PANEL NUMBER 120153 0334 C, MAP REVISED JULY 15, 1992 AND IS SUBJECT TO VERIFICATION BY THE PERMITTING DEPARTMENT OR FLOOD PLAIN MANAGEMENT DEPARTMENT.
 - THE INTENDED DISPLAY SCALE OF THIS 24"X 36" PAPER SKETCH OF SURVEY IS 1" = 10' OR SMALLER. THE ELECTRONIC DATA FILE OF THIS SURVEY IS INTENDED TO BE AT A SCALE OF 1 TO 1.

NOTE: THE TRACT BOUNDARY LINES, CENTERLINE, EASEMENT LINES AND CALCULATED INFORMATION SHOWN HEREON FOR THIS TOPOGRAPHIC SURVEY IS BASED ON EXISTING MONUMENTATION SHOWN ON THIS SKETCH OF SURVEY AS IT RELATES TO THE RECORD PLAT FOR MANATEE OAKS III.

TREE LEGEND:

- = OAK TREE
- ✱ = PALM TREE
- ⊙ = HICKORY TREE
- ⊙ = UNKNOWN TREE
- = SIZE IN INCHES DIAMETER
- = BREAST HEIGHT

TOPOGRAPHIC SURVEY

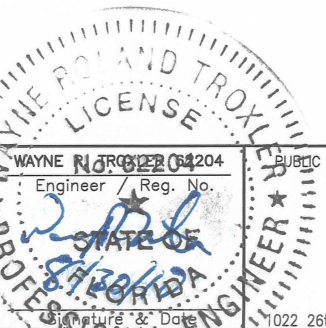
TO LOCATE FEATURES IN AND AROUND THE LIFT STATION EASEMENT (RTU 474) SHOWN ON PLAT BOOK 24, PAGE 189 FOR MANATEE OAKS III

SECTION 08, TOWNSHIP 35 SOUTH, RANGE 18 EAST MANATEE COUNTY, FLORIDA

LEGEND	LEGEND	LEGEND	LEGEND
BWF = BARBED WIRE FENCE C = CURVE (C) = CALCULATED DIMENSION CB = CHORD BEARING CH = CHORD CI = CURB INLET CLF = CHAIN LINK FENCE CMP = CORRUGATED METAL PIPE CONC. = CONCRETE (D) = DEED DIMENSIONS ES = EDGE OF SHELL ROAD, +/- ELEV. = ELEVATION EP = EDGE OF PAVEMENT	FCM = FOUND CONC. MONUMENT 4"x4" (ID NOTED) FIP = FOUND IRON PIPE (NO ID, SIZE NOTED) FIRC = FOUND IRON ROD&CAP (D & SIZE NOTED) FIR = FOUND IRON ROD (NO ID, SIZE NOTED) SIRC = SET IRON ROD & CAP 5/8" (D) ID = IDENTIFICATION INV. = INVERT LB = LICENSED BUSINESS	LS = LICENSED SURVEYOR (L&S) = LOMBARDO & SKIPPER (M) = FIELD MEASURED DIMENSION MH = MANHOLE NGVD = NATIONAL GEODETIC VERTICAL DATUM NMFS = NO MONUMENT FOUND OR SET MNF = MASONRY NAIL FOUND MNS = MASONRY NAIL SET NDF = NAIL & DISK FOUND (ID NOTED) NDS = NAIL & DISK SET O.R. = OFFICIAL RECORDS O/A = OVERALL (P) = PLAT DIMENSION	PB = PLAT BOOK R/W = RIGHT-OF-WAY PC = POINT OF CURVATURE POB = POINT OF BEGINNING POC = POINT OF COMMENCEMENT PI = POINT OF INTERSECTION PRC = POINT OF REVERSE CURVE PRM = PERMANENT REFERENCE MONUMENT PSM = PROFESSIONAL SURVEYOR & MAPPER N.P.D. = NO PLAT DATA RAD = RADIUS RCP = REINFORCED CONC. PIPE REG = REGISTERED Rge. = RANGE
			RSM = REGISTERED SURVEYOR & MAPPER S/W = SECTION S/W = SIDE WALK TB = TOP OF BANK Twp. = TOWNSHIP (TYP.) = TYPICAL WM = WITNESS MONUMENT WF = WOOD FENCE CL = CENTER LINE OU = OVERHEAD UTILITY LINE FP&L = FLORIDA POWER & LIGHT +/- = MORE OR LESS
			○ = CLEAN OUT (CO) ○ = SIGN ○ = UTILITY POLE ○ = GUY WIRE ANCHOR ○ = WATER VALVE ○ = SEWER VALVE ○ = SANITARY SEWER ○ = WITNESS MONUMENT ○ = WOOD FENCE ○ = CENTER LINE ○ = OVERHEAD UTILITY LINE ○ = BENCH MARK (BM) ○ = WATER METER

SEC, TWP, RGE	08-35S-18E		
SURVEY BOOK NO.			
PROJECT NUMBER	402-5125980		
	By	Checked	Date
Surveyed	MCSD	JEA	11/24/09
Drawn	JEA	WRT	11/30/09
Designed	WRT	JEA	11/25/09

NOTE:
THESE PLANS DO NOT REFLECT A TRUE BOUNDARY OR RIGHTS-OF-WAY SURVEY. THE LOCATION OF THE STREET RIGHTS-OF-WAY LINES SHOWN IS APPROXIMATE AND IS BASED ON INFORMATION CONTAINED IN THE SUBDIVISION PLATS, RIGHTS-OF-WAY MAPS ON RECORD IN MANATEE COUNTY AND ON TOPOGRAPHIC DATA COLLECTED ON THE ROUTE SURVEY OF THE RIGHTS-OF-WAY. CONSEQUENTLY THE RIGHTS-OF-WAY LINES SHOWN ARE NOT INTENDED TO INDICATE THE EXACT PROPERTY CORNERS.



MANATEE COUNTY PUBLIC WORKS DEPT.-ENGINEERING DIVISION
1022 26th Avenue East, Bradenton, FL 34208

NO.	REVISION DESCRIPTION	BY	DATE

**LIFT STATION UPGRADES, 2010 GROUP 3
EMERGENCY GENERATORS
MANATEE OAKS (RTU 474)**

PLAN & PROFILE

Sheet 5 / 10