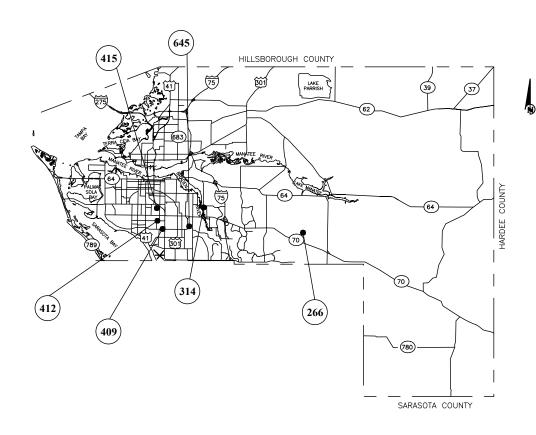


SATELLITE LIFT STATION R&R 2016 GROUP 1

AUGUST 2017

L.S.NAME/NO.	RTU #	ADDRESS	PROJECT JL NO.
SAVANNAH	266	71ST AVE E, BRADENTON	402-5138880
HORSESHOE COVE 2	314	5100 60TH ST E, BRADENTON	402-5135881
PESCARA LAKES	409	500 58TH AVE. DR. W, BRADENTON	402-5138780
CHATEAU VILLAGE	412	601-A CRETE CT, BRADENTON	402-5138980
CASA LOMA	415	400 51ST AVE. E, BRADENTON	402-5138680
CASCADES	645	4085 65TH PL. E, BRADENTON	402-5138580



NO.	I INDEX OF SHEETS
<u>NO.</u>	INDEX OF SHEETS
1.	COVER SHEET
2.	GENERAL NOTES & LEGEND
3.	VICINITY MAPS
4.	SAVANNAH (REHAB)
5.	HORSESHOE COVE 2 (REHAB)
6.	PESCARA LAKES (REHAB)
7.	CHATEAU VILLAGE (REHAB)
8.	CHATEAU VILLAGE (SITE)
9.	CASA LOMA (REHAB)
10.	CASA LOMA (SITE)
11.	CASCADES (REHAB)
12.	DETAILS
13.	DETAILS
14.	DETAILS
15.	EROSION CONTROL

100% PLANS

PROJECT DESCRIPTION

REHABILITATE SEWAGE LIFT STATIONS TO REDUCE RISK TO PUBLIC HEALTH AND ENVIRONMENTAL POLLUTION. THE WORK SHALL CONSIST OF, BUT NOT LIMITED TO, WET WELL CLEANING, THE REPLACEMENT OF DISCHARGE PIPING, FITTINGS, VALVES, SWING CHECK VALVES, GUIDE RAILS, PIPE BRACINGS, BASE ELLS, ANDO/OR MOUNTING PLATES. WET WELL LINER MAY NEED TO BE INSTALLED, REPAIRED OR REPLACED. SEE INDIVIDUAL PLAN SHEETS FOR SPECIFIC REHABILITATION AND INSTALLATIONS REQUIREMENTS FOR EACH LIFT STATION.





SATELLITE LIFT STATION R&R 2016 GROUP 1

GENERAL

- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: SHERRI ROBINSON
- AND CAN BE REACHED AT: (941) 708-7450 EXT. 7334
- 3. 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. THE STANDARDS CAN BE DOWNLOADED FROM THE MANATEE COUNTY WEBSITE, http://www.mymanatee.org/home/government/departments/public-works/engineering-services/engineering-standards.html
- . 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.
- 5. 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 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 B11 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
- 8. 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.

- 9. 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.
- 10. THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM
- 11. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
- 12. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.

- 13. 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.
- 14. 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.
- 15. 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.
- 16. 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)
- 17. 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
- 8. 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.
- 19. 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.
- 20. 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 CONTROL OF THE PROPERTY OF THE PR
- 21. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.
- 22. THE CONTRACTOR SHALL NOT ENTER LIPON OR IN ANY WAY ALTER WETLAND AREAS THAT MAY BE ON OR NEAR THE THE CONTRACTOR STALL NOT ENTER OPEN OR IN ANY WAY ALTER WEIGHTS AREAS THAT BE OF 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.
- 23. FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.

- 24. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS
- 25. 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.
- 26. THE CONTRACTOR, PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHTS-OF-WAY USE PERMIT AND THE CONTROL TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC MOST OBTAIN A RIGHTS-OF-WAY 105 PERMIN AND A TRAFFIC CONTROL PLAN. THE CONTROLTOR 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.
- 27. 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.
- 28. 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.

- 29. 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.
- 30. 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

- 31. 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 EFFECT HIS WORK. ALL EXISTING UTILITIES TO BE EXTENDED, CROSSED OR CONNECTION POINTS SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION. LOCATION AND ELEVATION. ANY DISCREPANCIES OR CONFLICTS FOUND SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR
- 32. 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.
- 33. 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.
- 34. 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 CORDINATED 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
- 35, 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.

- 36. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS
- 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.
- 38. 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.
- 39. ASPHALT DRIVES THAT ARE CUT SHALL BE RESTORED PER SECTION 02513.
- 40. 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.
- 41. 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.
- 42. 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.

- 43. 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.
- 44. NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEPT DAILY AS PART OF DAILY CLEAN UP.
- 45. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS
- 46. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES
- 47. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA
- 48. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS
- 49. 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.
- 50. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.
- 51. ALL PIPE AND FITTINGS SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND ALL PIPE JOINTS SHALL BE RESTRAINED WHERE REQUIRED.
- 52. 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.
- 53. 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.
- 54. ALL PIPE LENGTHS ARE PLUS OR MINUS AND MAY BE ADJUSTED IN THE FIELD AS REQUIRED. PIPE MEASUREMENTS ARE TO
- 55. 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. 56. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
- 57. ALL PENETRATION OF EXISTING STRUCTURES SHALL BE BY THE MECHANICAL ROTARY CORE BORING METHOD
- 58. ALL CONCRETE PENETRATED OR DISTURBED SHALL BE COATED WITH TWO COATS OF EPOXY.
- 59. THE CONTRACTOR, PRIOR TO ANY TEMPORARY WATER SHUT-OFFS DURING WATER MAIN TIE-IN, ETC., SHALL NOTIFY THE AFFECTED THE CONTRACTOR, PRIOR ID ANY TEMPORARY WATER SHOT-OFS DURING WATER WAIT IE.—IN, ELC., SHALL NUTIFY 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.
- 60. 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.

- 61. 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
- 62. 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.
- 63. 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
- 64. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.
- 65. 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.

EMERGENCY CONTACTS

MANATEE COUNTY MANATEE COUNTY
PUBLIC WORKS DEPT.
UTILITY ENGINEERING
SCOTT MAY, P.E.
1022 26TH AVENUE EAST BRADENTON, FL. 34208 (941) 708-7450 EXT. 7650

TECO/PEOPLES GAS CO. (941) 342-4030 FAX: (941) 342-4011 EMERGENCY: 1-877-832-6911

SUNSHINE STATE ONE CALL OF 1-(800) 432-4770

VERIZON FLORIDA INC. (941) 330-9203 WAYNE.SUMNER@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 Greq_Coker@fpl.com FLORIDA GAS TRANSMISSION

7804 ANDERSON RD. TAMPA, FL. 33634 CHRIS LEE (813) 466-3327 CELL: (727) 639-7512 christopher.lee@sug.com

BRIGHT HOUSE NETWORKS TOM WRIGHT 5413 E. STATE ROAD 64 BRADENTON, FL. 34208-5 (941) 748-3816 EXT. 21348

DEPARTMENT OF ENVIRONMENTAL PROTECTION STEPHANIE BARIOS 13051 N. TELECOM PKWY TEMPLE TERRACE, FL 33637 PHONE: (813) 632-7600, EXT. FAX: (813) 632-7662

PEACE RIVER ELECTRIC COOPERATIVE, INC.
P.O. BOX 1310
WACHULA, FL 33873
KENDELL COKER (863) 767-4660

EXISTING

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/IATIONS

PROPOSED
- MAIN - SERVICE LINE - PROPOSED EASEMENT FIRE HYDRANT VALVE REDUCER TEE HORIZONTAL BEND VERTICAL BEND PLUG MASTER METER ASSEMBLS SERVICE LINE & METER DOUBLE SERVICE

PROPOSED PROJECT NOTES JOB SPECIFIC (EXAMPLE): WATER LINE CALL-OUT (TYPICAL)

STA. 40+60, 17' LT. 1-6" GATE VALVE 1-6" FITTING

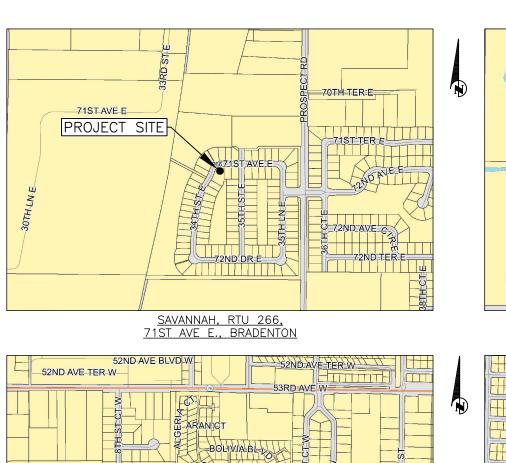


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ROJECT # ----SURVEY # SEC./TWN./RGI

WILLIAM SURGED STATES N.T.S. DATE CHECKED 97 PRO SORLA TO NEAR PRINTERS TO NEAR PRINT



DENMARKO

56TH AVE W

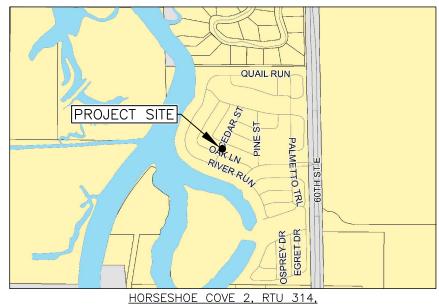
CHATEAU VILLAGE, RTU 412, 601-A CRETE CT., BRADENTON

55TH AVE PLZ W

55TH AVE TER W

STH AVE PL W

PROJECT SITE



5100 60TH ST E., BRADENTON

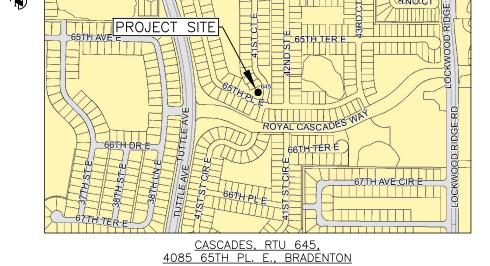


PESCARA LAKES, RTU 409, 500 58TH AVE. DR. W., BRADENTON

64TH DR E

NO ODCLIFE LAKE





CASA LOMA, RTU 415, 400 51ST AVE. E., BRADENTON

NOTE(S):

1. LIFT STATION SITE VISITS MAY BE COORDINATED WITH NICK WAGNER, 941-792-8811 x5377.



Manatee County

PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34

- THE WET WELL AND VALVE VAULT CONFIGURATION SHOWN ON THESE GRAPHICS IS FOR IDENTIFICATION OF COMPONENTS TO BE REMOVED. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, CONFIGURATION, ETC. FOR ACCURACY.
- 2. THE CONTRACTOR/BIDDER SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
- 3. THE CONTRACTOR/BIDDER SHALL DETERMINE THE DISCHARGE PIPING ELEVATIONS DURING THE SITE VISITS.
- 4. REMOVAL AND REINSTALLATION OF THE PUMPS DURING THE REHABILITATION SHALL BE DONE BY MANATEE COUNTY PERSONNEL IN COORDINATION WITH THE CONTRACTOR
- 5. BY-PASS PUMPING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 6. MANATEE COUNTY GOVERNMENT WILL PROVIDE ONE (1) LIFT STATION SHUT-DOWN AT NO COST TO THE CONTRACTOR. ADDITIONAL SHUT-DOWNS WILL COST THE CONTRACTOR \$3,500 EACH, IF NEEDED.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING ANY DAMAGED LANDSCAPING TO EXISTING OR DESIGN

ELEC PANEL

CONT. PANEL

(REMAIN)

PVC

PVC

QUICK CONNECT. -

WEIGHTED CHECK VALVE (2 TYP., REMOVE)-

ᠯ᠋ᢅ

90° BEND, DI

ALUM. HATCH.

(REMOVE)

(REMOVE)

DISCHARGE

PIPING (2

& PATCH

HOLES)

77 2 41

PVC— ►

LEX. DRAIN (REMOVE

DISCHARGE PIPING

(2 TYP., REMOVE)

-PUMP BASE ELBOWS & ANCHORING

HARDWARE (2 TYP., REMOVE)

& PATCH HOLE)

8. THE WORK AREA IS LIMITED TO THE LIFT STATION SITE.

INFLUENT LINE

(TO REMAIN)

HATCH OPENING (REMOVE)

PVC VENT

TOP SLAB OF WET

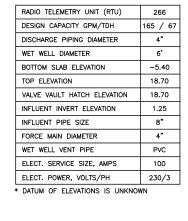
WELL (REMOVE)

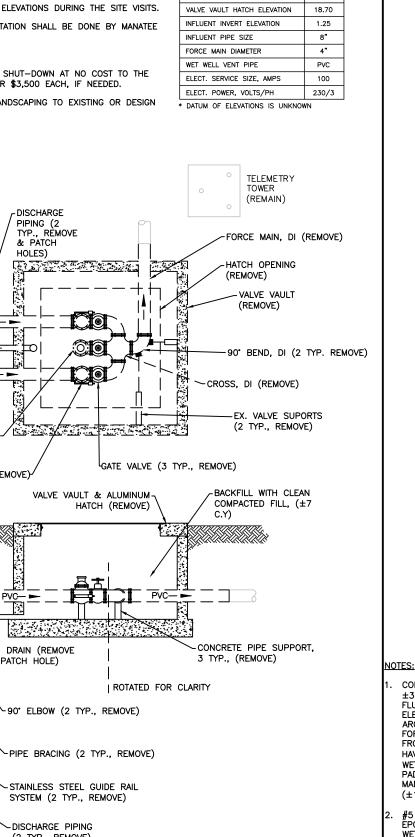
EX. WET WELL-

(GU LINER)

CLEAN & INSPECT

(REMOVE)





PROPOSED

ASSEMBLY PAD WILL REMAIN

INSTALL FIBERGLASS W.W. LINER	NO
APPLY SPRAY LINER W.W. LINER	YES
INSTALL STILLING WELL	YES
INSTALL FORCE MAIN G.V.	YES
NEW HDPE PIPING IN W.W.	YES, 4"
NEW BASE ELL	4" BPIU-1
RAISE TOP OF WET WELL:	NO
RAISE TOP OF VALVE VAULT:	NO
REPLACE WET WELL VENT PIPE	YES
UPGRADE BFP TO STANDARD, US-15	NO
RELOCATE WATER SERVICE ASSEMBLY	NO

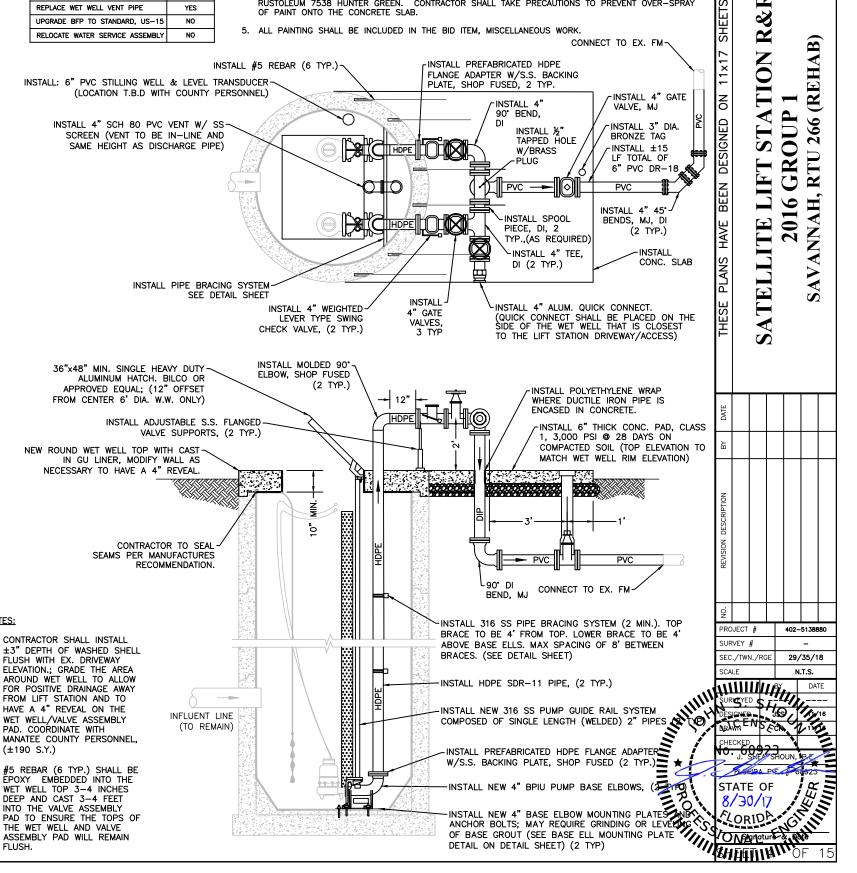
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FManatee

County

PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 3

- 2. THE CONCRETE SHALL BE GIVEN A BROOM FINISH. THE SURFACE VARIATIONS SHALL BE NOT MORE THAT 1/4" UNDER A TEN FOOT (10") STRAIGHTEDGE, NOT MORE THAN 1/8" ON A FIVE FOOT (5") TRANSVERSE SECTION. THE EDGE OF THE CONCRETE PAD SHALL BE CAREFULLY FINISHED WITH A EDGING TOOL HAVING A RADIUS OF 1/2".
- 3. EXPANSION JOINT: EXPANSION JOINTS BETWEEN THE CONC. PAD AND THE WET WELL SHALL BE 1/2" MATERIAL AND SHALL MEET THE REQUIREMENTS OF AASHTO M153 OR AASHTO M213.
- THE EXTERIOR SURFACES OF THE CONCRETE WET WELL AND VALVE PAD EXPOSED ABOVE GRADE SHALL BE COATED WITH AT LEAST TWO COATS OF H & C SILICONE ACRYLIC CONCRETE STAIN, PATIO GREEN, MANUFACTURED BY FLR PAINTS. THE ABOVE GROUND VALVE ASSEMBLY & PIPING SHALL BE PAINTED, RUSTOLFUM 7538 HUNTER GREEN. CONTRACTOR SHALL TAKE PRECAUTIONS TO PREVENT OVER-SPRAY



PROPOSED GENERAL NOTES: 1. CONTRACTOR SHALL NOT BACKFILL OVER ELECTROFUSED COUPLINGS UNTIL INSPECTOR HAS VISUALLY RADIO TELEMETRY UNIT (RTU) CHECKED ITFOR LEAKS DURING PUMP STARTUP OR PRESSURE TEST AS DIRECTED BY THE COUNTY. 314 GENERAL NOTES DESIGN CAPACITY GPM/TDH 500/140 INSTALL FIBERGLASS W.W. LINER NO 2. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST MANATEE COUNTY THE WET WELL AND VALVE VAULT CONFIGURATION SHOWN ON THESE GRAPHICS IS FOR IDENTIFICATION OF COMPONENTS TO BE REMOVED. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, PUBLIC WORKS UTILITY STANDARDS. DISCHARGE PIPING DIAMETER APPLY SPRAY LINER W.W. LINER YES ELEVATIONS, CONFIGURATION, ETC. FOR ACCURACY, WET WELL DIAMETER 3. THE EXTERIOR SURFACES OF THE CONCRETE WET WELL AND VALVE PAD EXPOSED ABOVE GRADE SHALL BE COATED WITH AT LEAST TWO COATS OF H & C SILICONE ACRYLIC CONCRETE STAIN, PATIO GREEN, INSTALL STILLING WELL YES 0.00 BOTTOM SLAB ELEVATION** INSTALL FORCE MAIN G.V YES 2. THE CONTRACTOR/BIDDER SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. 14.83 TOP ELEVATION* NEW HDPE PIPING IN W.W. YES, 4" 4. ALL EXISTING DUCTILE IRON PIPE AND/OR FITTINGS LABELED TO REMAIN IN THE VALVE VAULT SHALL BE COATED WITH A BITUMINOUS COATING. 3. THE CONTRACTOR/BIDDER SHALL DETERMINE THE DISCHARGE PIPING ELEVATIONS DURING THE SITE VISITS. VALVE VAULT HATCH ELEVATION** 14.83 NEW BASE ELL 4" BPIU-14 INFLUENT INVERT ELEVATION** UNK REMOVAL AND REINSTALLATION OF THE PUMPS DURING THE REHABILITATION SHALL BE DONE BY MANATEE RAISE TOP OF WET WELL: NO COUNTY PERSONNEL IN COORDINATION WITH THE CONTRACTOR 5. CONTRACTOR SHALL COAT THE EXTERIOR AND INTERIOR OF THE VALVE VAULT WALLS WITH TWO (2) COATS OF COAL TAR EPOXY. 10" INFLUENT PIPE SIZE RAISE TOP OF VALVE VAULTS NO FORCE MAIN DIAMETER 5. BY-PASS PUMPING IS THE RESPONSIBILITY OF THE CONTRACTOR. REPLACE WET WELL VENT PIPE YES 6. ALL PAINTING SHALL BE INCLUDED IN THE BID ITEM, MISCELLANEOUS WORK WET WELL VENT PIPE PVC UPGRADE BFP TO STANDARD, US-15 NO MANATEE COUNTY GOVERNMENT WILL PROVIDE ONE (1) LIFT STATION SHUT-DOWN AT NO COST TO THE ELECT. SERVICE SIZE, AMPS 60 RELOCATE WATER SERVICE ASSEMBLY NO CONTRACTOR. ADDITIONAL SHUT-DOWNS WILL COST THE CONTRACTOR \$3,500 EACH, IF NEEDED. ELECT. POWER, VOLTS/PH 230/1 7. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING ANY DAMAGED LANDSCAPING TO EXISTING OR DESIGN DATUM OF ELEVATIONS IS UNKNOWN ** NUMBERS ESTIMATED INSTALL BUTT FUSED FLANGE W/ SS CONT. PANEL 8. THE WORK AREA IS LIMITED TO THE LIFT STATION SITE. BACKING PLATE, SHOP FUSED (2 TYP.) INSTALL 2" SCH. ELEC PANEL TOWER 80 PVC CONDUIT, INSTALL 4" WEIGHTED LEVER TYPE (REMAIN) 0 3 TYP. (±30 LF) CONTROL PANEL CHECK VALVE (2 TYP.) (REMOVE) INSTALL: 6" PVC STILLING WELL INSTALL 4" GATE HATCH OPENING & LEVEL TRANSDUCER (LOCATION HATCH OPENING (REMOVE) VALVE (3 TYP.) (REMOVE) T.B.D WITH COUNTY PERSONNEL) BEND, DI -90° BEND, DI (2 TYP., REMOVE) HDPE _ INSTALL 4" TEE, DI (2 TYP.) PVC —► TEE, DI (2 TYP.,REMOVE) EX. METER & BFP (PER COUNTY INSTALL PIPE BRACING SYSTEM, SEE STANDARDS DETAIL SHEET HDPF _ REMAIN) PVC -EX. HOSE BIBB W CONC. FILLED PVC INSTALL 4" GATVE PIPE (REMAIN) VALVE W/ CONC. SEAL SLEEVE TO WET WELL LINER-PAD. LEX. FORCEMAIN (TO REMOVE) PER LINER MANUFACTURER'S -INSTALL 4" 90° BEND INSTALL PVC DR-18 QUICK CONNECT. -& 4" QUICK CONNECT RECOMMENDATIONS (2 TYP.) C-900 DOWN STREAM OF TEE TO EX. VALVE 90° BEND, DI (REMOVE) GATE VALVE (3 TYP., REMOVE) -INSTALL PVC SLEEVES W/ HYDRAULIC INFLUENT LINE NEW ROUND WET WELL TOP, MODIFY WALL AS NECESSARY TO MAINTAIN NON-SHRINK GROUT & LINK SEALS (5 TYP.) -DISCHARGE PIPING (TO REMAIN) (2 TYP., REMOVE) -WEIGHTED CHECK VALVE EXISTING ELEVATION. EX. DRAIN (REMOVE) (2 TYP., REMOVE) 36"x48" MIN. SINGLE HEAVY DUTY ALUM. HATCH. (REMOVE)-ALUMINUM HATCH. BILCO OR APPROVED INSTALL SITE ELECTRO FUSED VENT, PVC EQUAL; (OFFSET 12" FROM CENTER COUPLER (IF REQUIRED) (REMOVE) 6' DIA. W.W ONLY) TOP SLAB OF VALVE VAULT TOP OF WET WELL NEW VALVE VAULT TOP & DOUBLE HEAVY DUTY ALUMINUM HATCH. BILCO & HATCH (REMOVE) (REMOVE) INSTALL 4" SCH 80 PVC (W/ OR APPROVED EQUAL, MODIFY WALL AS SS SCREEN) ON HINGED SIDE NECESSARY TO MAINTAIN EXISTING OF HATCH ELEVATION. -SLOPE FLOOR INSTALL APPROVED SPRAY Ξ TO DRAIN LINER, (±336 SF) CONSTRUCTION NOTES: EX. WET WELL HDPE PVC (NO LINER) CONTRACTOR SHALL REMOVE AND INSTALL NEW BRICK & MORTOR INSTALL ALL NEW ELECTRICAL STRUCTURE (RACK), A CONTROL SUPPORTS (3 TYP.) PANEL, TCU, JUNCTION BOX EX. DRAIN (REMOVE) FNCLOSURES, A METER CAN, AND A CONCRETE PIPE -INSTALL NEW 3" PVC DRAIN LINE WITH PVC "P" TRAP ROTATE AND SAFETY SWITCH (DISCONNECT). NEW SUPPORT, 3 TYP., INSTALL FLUSH AGAINST WALL INSIDE WET WELL. SEAL WITH NON-SHRINK GROUT. SEAM AND SEAL TO MATCH LINER IN WET ELECTRICAL STRUCTURE SHALL BE (REMOVE) FIELD LOCATED WITH MANATEE WELL. WALL PENETRATION TO BE MADE BY MECHANICAL ROTARY COUNTY PERSONNEL. INFLUENT LINE CORE BORING. (P-TRAP ROTATED IN DRAWING FOR CLARITY) (TO REMAIN) ROTATED FOR ~90° ELBOW CONTRACTOR SHALL INSTALL (2)-1¢ (2 TYP. REMOVE) -INSTALL MOLDED 90° ELBOW, SHOP FUSED (2 TYP.) TO 36 CONVERTER IN CONTROL CLARITY PANEL, CONTRACTOR TO SUBMIT, INSTALL 316 SS PIPE BRACING SYSTEM (2 MIN.). TOP BRACE TO SHOP DRAWING FOR APPROVAL. BE WITHIN 2' OF TOP ELBOW. LOWER BRACE TO BE 4' ABOVE ∽PIPE BRACING (2 TYP., REMOVE) BASE ELLS. MAX SPACING OF 8' BETWEEN BRACES. CONTRACTOR SHALL SEPARATE THE TELEMETRY TWOER FROM INSTALL NEW 316 SS PUMP GUIDE RAIL SYSTEM STAINLESS STEEL GUIDE RAIL SYSTEM (2 TYP., REMOVE) THE CONCRETE BASE AND SET COMPOSED OF SINGLE LENGTH (WELDED) 2" PIPES (2 TYP) TO SIDE OF LIFT STATION SITE STALL HDPE SDR-11 PIPE (2 TYP) STALL PRE-FABRICATED FLANGE W/ SS BACKING PLATE, SHOP FUSED (2 TYP.) NSTALL NEW 4" BPIU PUMP BASE ELBOWS (2 TYP) STATE OF 8/30/17 ORIDA ORIDA ORIDA ORIDA BOLTS; MAY REQUIRE GRINDING OR LEVELING OF BASE GROUT (SEE RASF FLL MOUNTING PLATE DETAIL ON DETAIL SHEET) (2 TYP) INSTALL HDPE SDR-11 PIPE (2 TYP) CONTRACTOR SHALL REMOVE AND DISPOSE OF CONCRETE BASE. DISCHARGE PIPING (2 TYP., REMOVE) COUNTY SHALL INSTALL NEW TELEMETRY ANTENNA. -PUMP BASE ELBOWS & ANCHORING HARDWARE (2 TYP., REMOVE) SHALL BE INSPECTED BY COUNTY

PERSONNEL PRIOR TO INSTALLATION OF NEW SPRAY

FManatee County

PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 3-

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ROJECT # SURVEY # SEC./TWN./RGE

402-5135881 10/35/18 N.T.S.

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DESIGNED US

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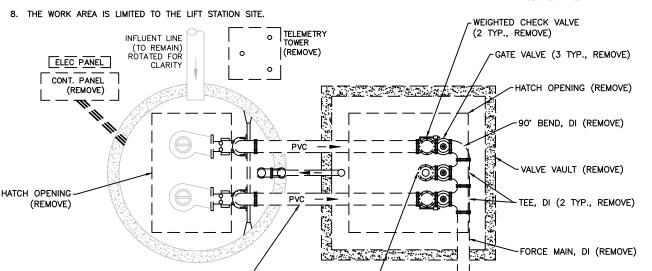
DISCHARGE PIPING (2 TYP.

REMOVE & PATCH HOLES)

- 6. MANATEE COUNTY GOVERNMENT WILL PROVIDE ONE (1) LIFT STATION SHUT-DOWN AT NO COST TO THE CONTRACTOR. ADDITIONAL SHUT-DOWNS WILL COST THE CONTRACTOR \$3,500 EACH, IF NEEDED.
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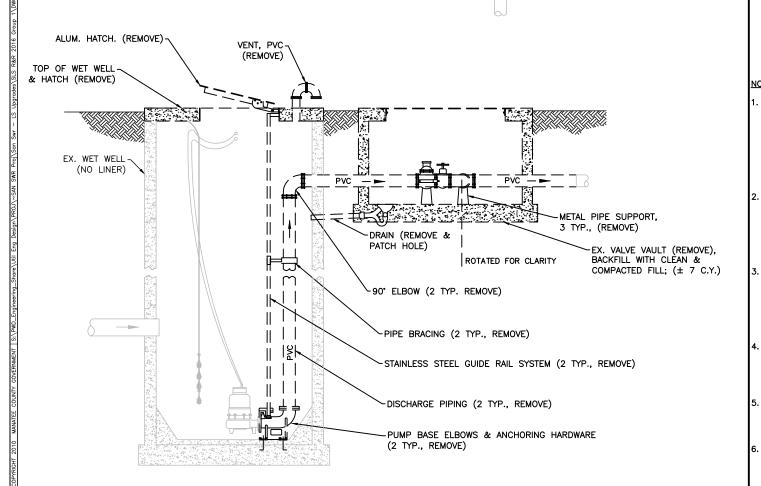
RADIO TELEMETRY UNIT (RTU)	409
DESIGN CAPACITY GPM/TDH	200 / 20
DISCHARGE PIPING DIAMETER	3"
WET WELL DIAMETER	5'
BOTTOM SLAB ELEVATION**	0.00
TOP ELEVATION**	16.08
VALVE VAULT HATCH ELEVATION	16.08
INFLUENT INVERT ELEVATION**	UNK.
INFLUENT PIPE SIZE	12"
FORCE MAIN DIAMETER	4"
WET WELL VENT PIPE	PVC
ELECT. SERVICE SIZE, AMPS	60
ELECT. POWER, VOLTS/PH	230/1
DATUM OF FLEVATIONS IN LINEM	OWN

DATUM OF ELEVATIONS IN UNKNOWN NUMBERS ESTIMATED.



QUICK CONNECT, 90°

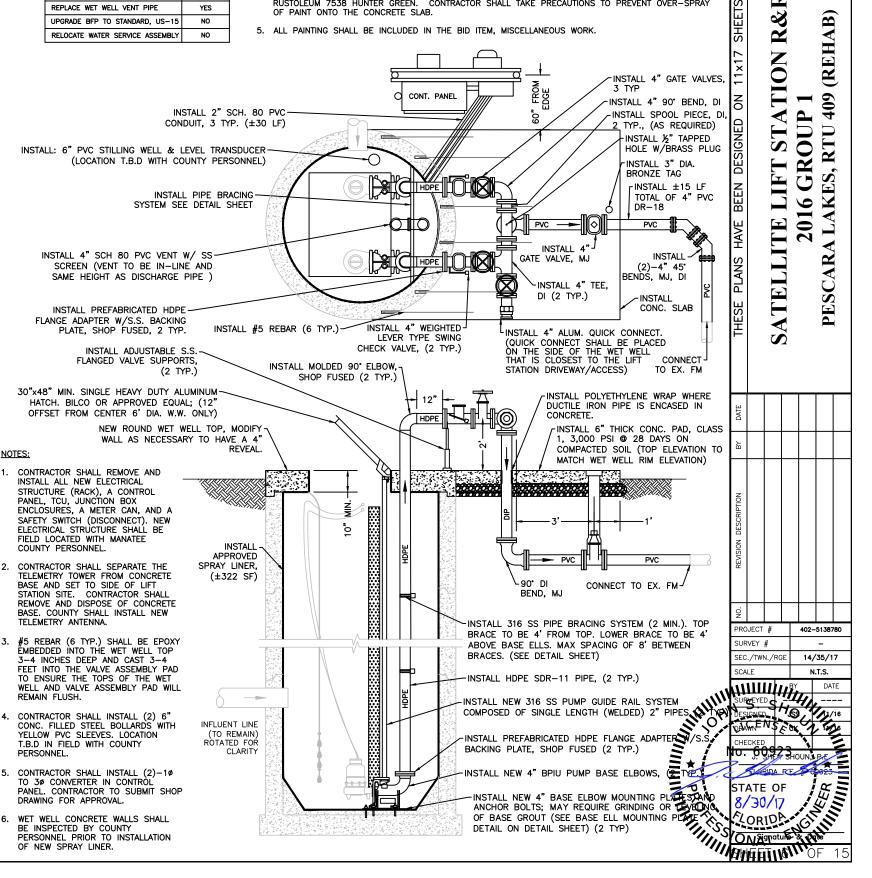
BEND, DI (REMOVE)



PROPOSED

INSTALL FIBERGLASS W.W. LINER	NO
APPLY SPRAY LINER W.W. LINER	YES
INSTALL STILLING WELL	YES
INSTALL FORCE MAIN G.V.	YES
NEW HDPE PIPING IN W.W.	YES, 4"
NEW BASE ELL	4" BPIU-1
RAISE TOP OF WET WELL:	N/A
RAISE TOP OF VALVE VAULT:	N/A
REPLACE WET WELL VENT PIPE	YES
REPLACE WET WELL VENT PIPE UPGRADE BFP TO STANDARD, US-15	YES NO
	NO

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- 2. THE CONCRETE SHALL BE GIVEN A BROOM FINISH. THE SURFACE VARIATIONS SHALL BE NOT MORE THAT 1/4" UNDER A TEN FOOT (10') STRAIGHTEDGE, NOT MORE THAN 1/8" ON A FIVE FOOT (5') TRANSVERSE SECTION. THE EDGE OF THE CONCRETE PAD SHALL BE CAREFULLY FINISHED WITH A EDGING TOOL HAVING A RADIUS OF 1/2".
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- THE EXTERIOR SURFACES OF THE CONCRETE WET WELL AND VALVE PAD EXPOSED ABOVE GRADE SHALL BE COATED WITH AT LEAST TWO COATS OF H & C SILICONE ACRYLIC CONCRETE STAIN, PATIO GREEN, MANUFACTURED BY FLR PAINTS. THE ABOVE GROUND VALVE ASSEMBLY & PIPING SHALL BE PAINTED, RUSTOLFUM 7538 HUNTER GREEN. CONTRACTOR SHALL TAKE PRECAUTIONS TO PREVENT OVER-SPRAY OF PAINT ONTO THE CONCRETE SLAB.

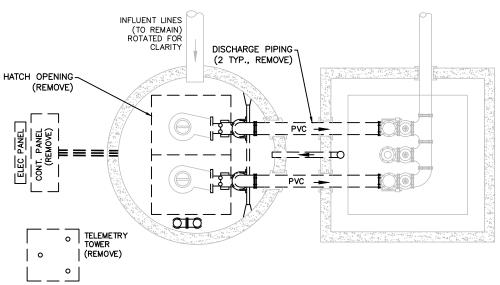


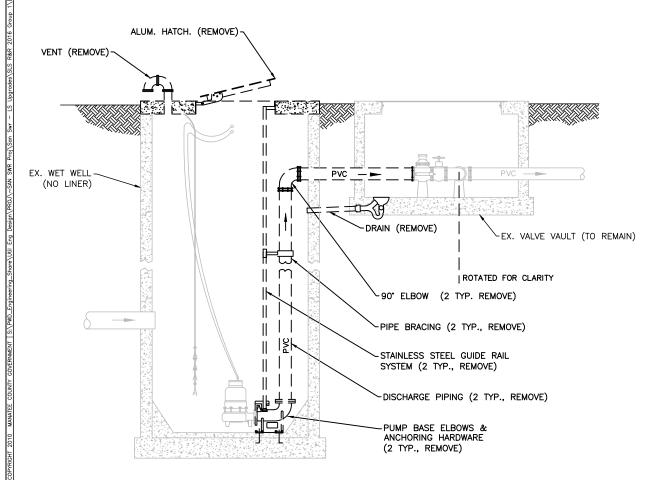
Manatee County

PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34

402-5138780 14/35/17

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PROPOSED

WET WELL & VALVE VAULT

RADIO TELEMETRY UNIT (RTU)

DESIGN CAPACITY GPM/TDH

DISCHARGE PIPING DIAMETER

BOTTOM SLAB ELEVATION

VALVE VAULT HATCH ELEVATION

INFLUENT INVERT FLEVATION

ELECT. SERVICE SIZE, AMPS

ELECT. POWER, VOLTS/PH

WET WELL DIAMETER

INFLUENT PIPE SIZE

FORCE MAIN DIAMETER

WET WELL VENT PIPE

TOP ELEVATION

412

105/30.2

8.21

19.57

19.50

9.45

12"

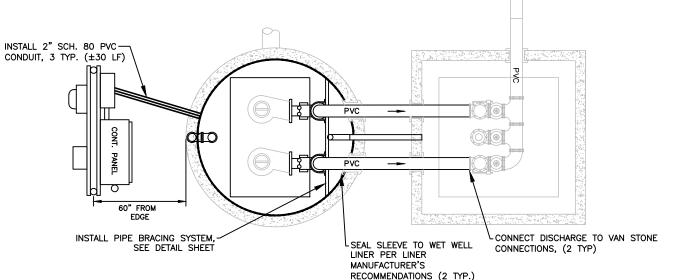
PVC

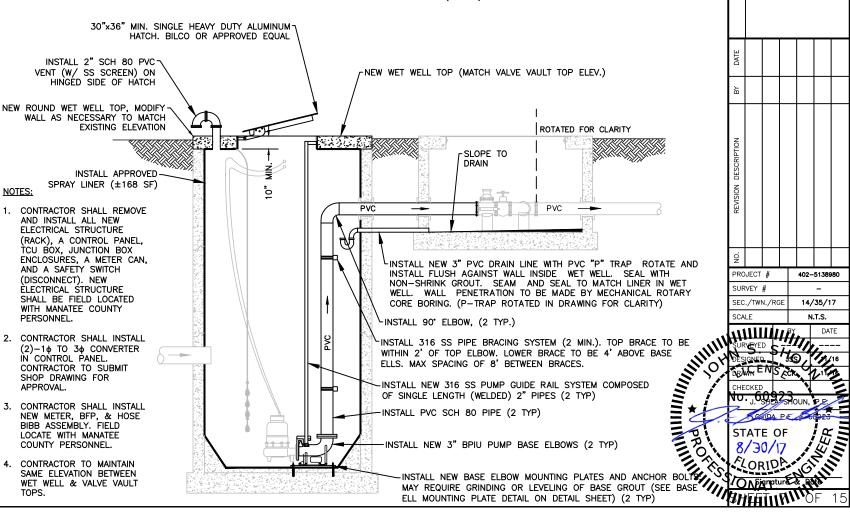
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230/1

INSTALL FIBERGLASS W.W. LINER NO APPLY SPRAY LINER W.W. LINER YES INSTALL STILLING WELL NO INSTALL FORCE MAIN G.V NO NEW PVC PIPING IN W.W. YES, 3" NEW BASE ELL 3" BPIU-13 RAISE TOP OF WET WELL: NO RAISE TOP OF VALVE VAULT: NO REPLACE WET WELL VENT PIPE YES UPGRADE BFP TO STANDARD, US-15 NO RELOCATE WATER SERVICE ASSEMBLY NO

- 1. CONTRACTOR SHALL NOT BACKFILL OVER ELECTROFUSED COUPLINGS UNTIL INSPECTOR HAS VISUALLY CHECKED IT FOR LEAKS DURING PUMP STARTUP OR PRESSURE TEST AS DIRECTED BY THE COUNTY.
- 2. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS.
- 3. THE EXTERIOR SURFACES OF THE CONCRETE WET WELL AND VALVE VAULT EXPOSED ABOVE GRADE SHALL BE COATED WITH AT LEAST TWO COATS OF H & C SILICONE ACRYLIC CONCRETE STAIN, PATIO GREEN, MANUFACTURED BY FLR PAINTS, INC.
- 4. ALL EXISTING DUCTILE IRON PIPE AND/OR FITTINGS LABELED TO REMAIN IN THE VALVE VAULT SHALL BE COATED WITH A BITUMINOUS COATING
- 5. CONTRACTOR SHALL COAT THE EXTERIOR AND INTERIOR OF THE VALVE VAULT WALLS WITH TWO (2) COATS OF COAL TAR EPOXY.
- 6. ALL PAINTING SHALL BE INCLUDED IN THE BID ITEM, MISCELLANEOUS WORK.



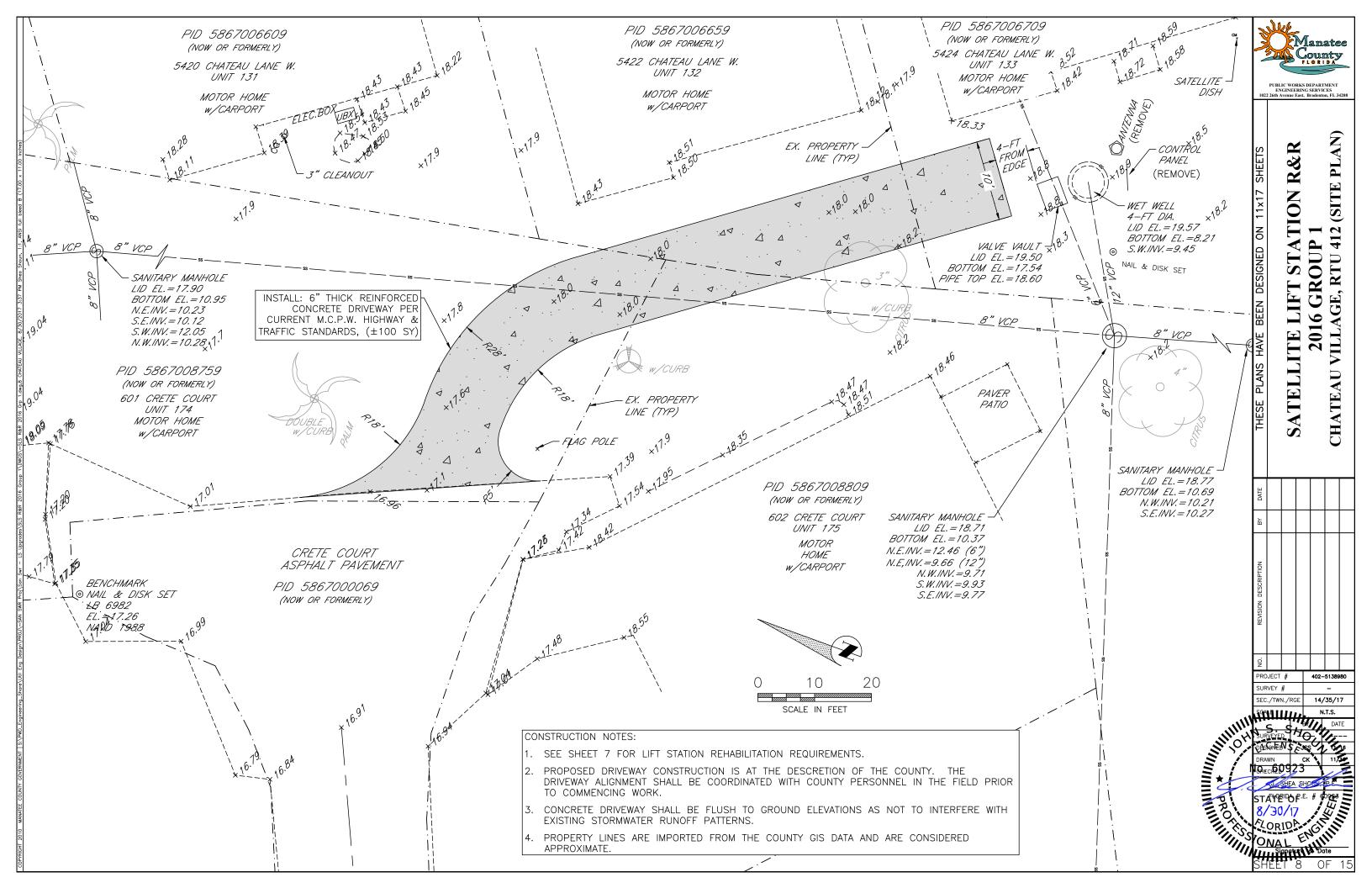




PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34

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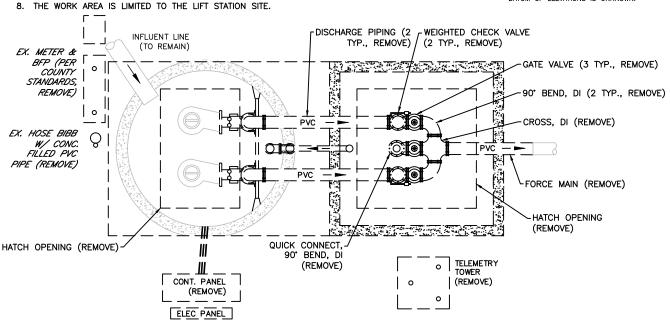
402-5138980 ROJECT # URVEY # SEC./TWN./RGE 14/35/17

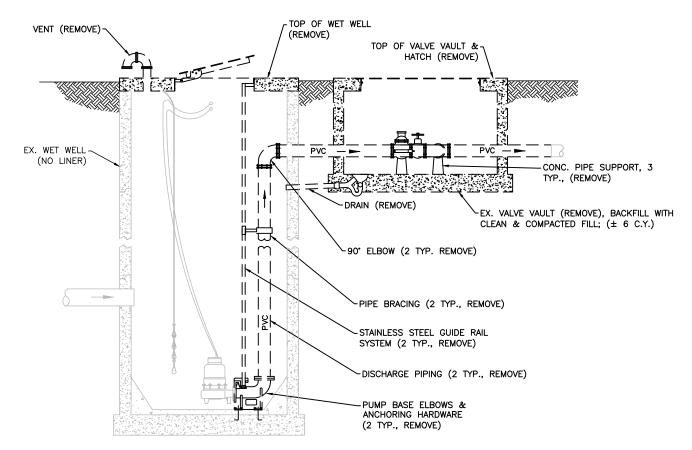


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RADIO TELEMETRY UNIT (RTU)	415
DESIGN CAPACITY GPM/TDH	150 / 29
DISCHARGE PIPING DIAMETER	3"
WET WELL DIAMETER	4'
BOTTOM SLAB ELEVATION	N/A
TOP ELEVATION	N/A
VALVE VAULT HATCH ELEVATION	N/A
INFLUENT INVERT ELEVATION	N/A
INFLUENT PIPE SIZE	6"
FORCE MAIN DIAMETER	4"
WET WELL VENT PIPE	PVC
ELECT. SERVICE SIZE, AMPS	60
ELECT. POWER, VOLTS/PH	230/1

* INFORMATION TAKEN FROM LIFT STATION DATA FILE (LSINFO.XLS 2016) & RECORD DRAWINGS. DATUM OF ELEVATIONS IS UNKNOWN.





PROPOSED

INSTALL FIBERGLASS W.W. LINER NO APPLY SPRAY LINER W.W. LINER YES INSTALL STILLING WELL NO INSTALL FORCE MAIN G.V YES NEW HDPE PIPING IN W.W. YES, 4" NEW BASE ELL 4" BPIU-14 RAISE TOP OF WET WELL: NO RAISE TOP OF VALVE VAULTS REPLACE WET WELL VENT PIPE YES UPGRADE BFP TO STANDARD, US-15 YES RELOCATE WATER SERVICE ASSEMBLY YES

WET WELL CONCRETE WALLS SHALL BE INSPECTED BY COUNTY PERSONNEL PRIOR TO INSTALLATION OF

ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS.

Manatee County

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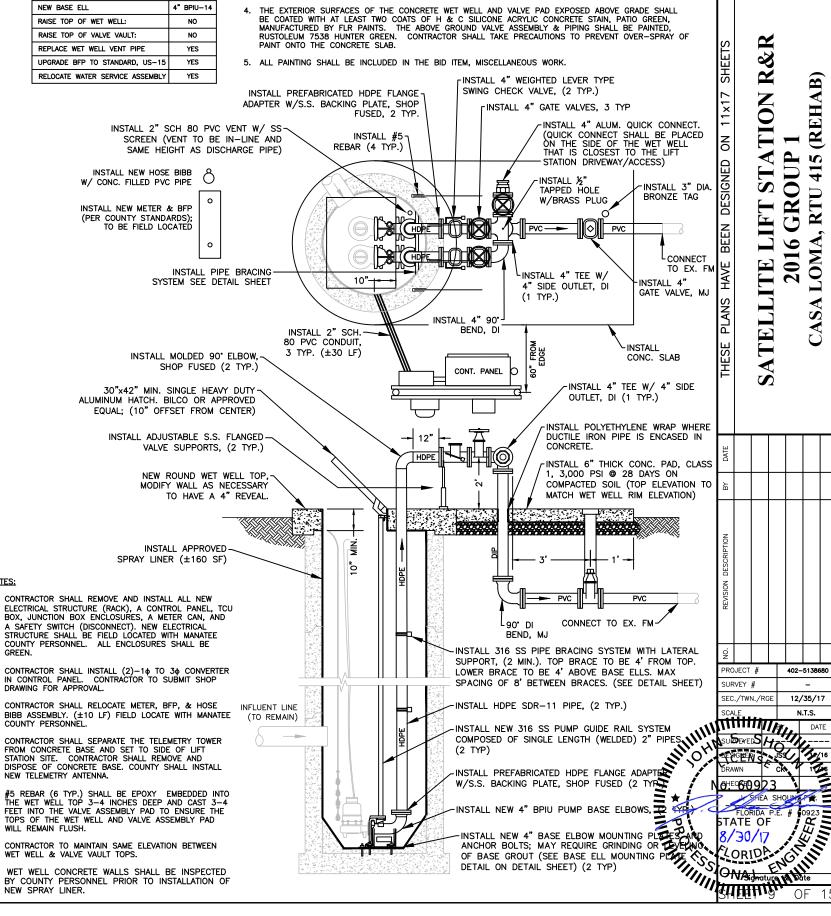
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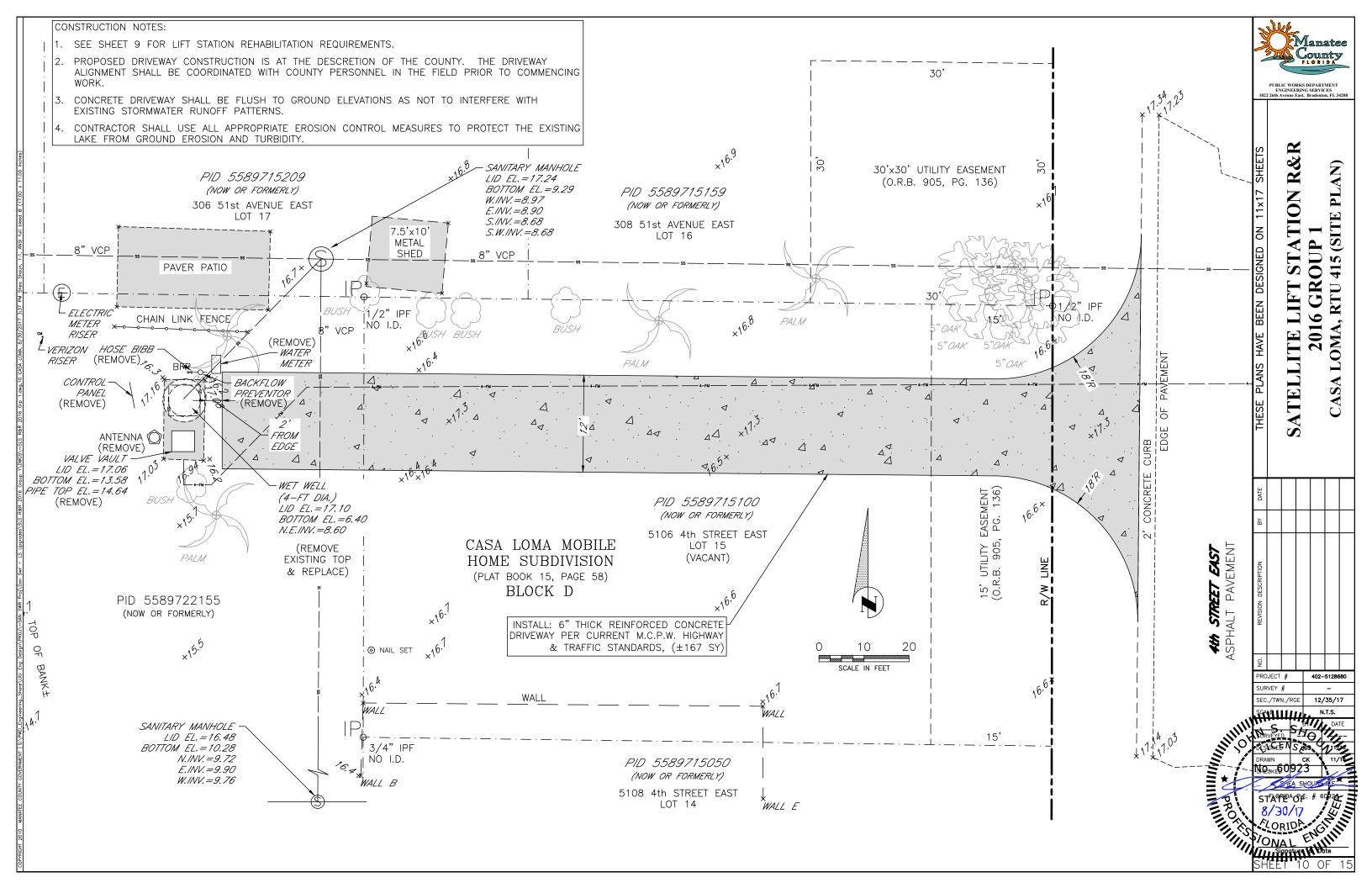
12/35/17

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PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 022 26th Avenue East, Bradenton, FL 34

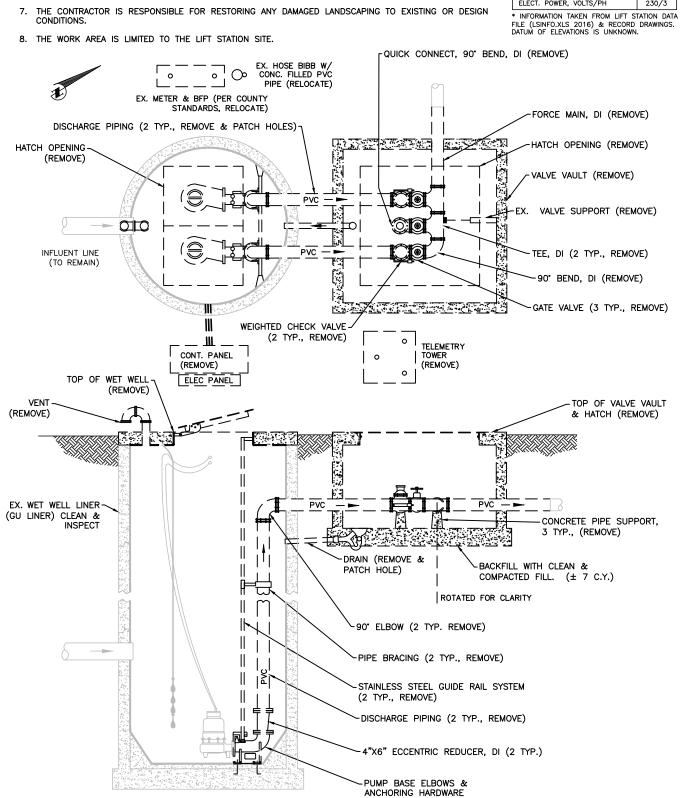
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- 3. EXPANSION JOINT: EXPANSION JOINTS BETWEEN THE CONC. PAD AND THE WET WELL SHALL BE 1/2" MATERIAL AND SHALL MEET THE REQUIREMENTS OF AASHTO M153 OR AASHTO M213.





- THE WET WELL AND VALVE VAULT CONFIGURATION SHOWN ON THESE GRAPHICS IS FOR IDENTIFICATION OF COMPONENTS TO BE REMOVED. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, CONFIGURATION, ETC. FOR ACCURACY.
- 2. THE CONTRACTOR/BIDDER SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
- 3. THE CONTRACTOR/BIDDER SHALL DETERMINE THE DISCHARGE PIPING ELEVATIONS DURING THE SITE VISITS.
- REMOVAL AND REINSTALLATION OF THE PUMPS DURING THE REHABILITATION SHALL BE DONE BY MANATEE COUNTY PERSONNEL IN COORDINATION WITH THE CONTRACTOR
- 5. BY-PASS PUMPING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- MANATEE COUNTY GOVERNMENT WILL PROVIDE ONE (1) LIFT STATION SHUT-DOWN AT NO COST TO THE CONTRACTOR. ADDITIONAL SHUT-DOWNS WILL COST THE CONTRACTOR \$3,500 EACH, IF NEEDED.

RADIO TELEMETRY UNIT (RTU)	645
DESIGN CAPACITY GPM/TDH	445 / 53
DISCHARGE PIPING DIAMETER	6"
WET WELL DIAMETER	8'
BOTTOM SLAB ELEVATION	-10.29
TOP ELEVATION	22.32
VALVE VAULT HATCH ELEVATION	22.32
INFLUENT INVERT ELEVATION	-2.63
INFLUENT PIPE SIZE	8"
FORCE MAIN DIAMETER	8"
WET WELL VENT PIPE	N/A
ELECT. SERVICE SIZE, AMPS	100
ELECT. POWER, VOLTS/PH	230/3
INFORMATION TAKEN FROM LIFT S	TATION DAT



(2 TYP., REMOVE)

PROPOSED

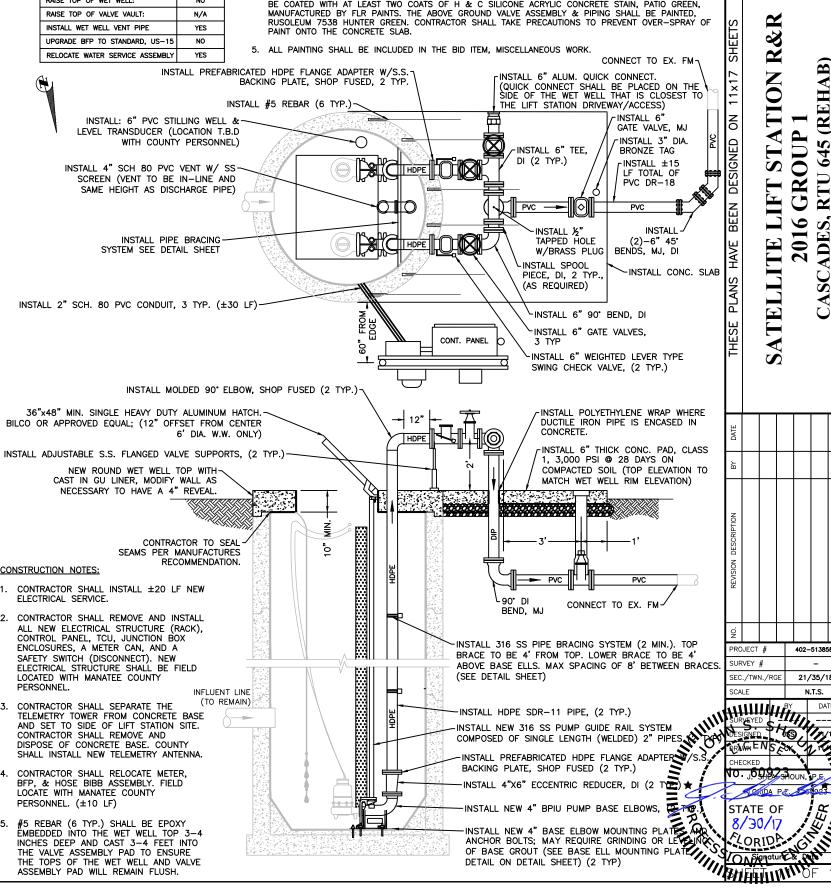
INSTALL FIBERGLASS W.W. LINER	NO
APPLY SPRAY LINER W.W. LINER	NO
INSTALL STILLING WELL	NO
INSTALL FORCE MAIN G.V.	YES
NEW HDPE PIPING IN W.W.	YES, 6"
NEW BASE ELL	4" BPIU-14
RAISE TOP OF WET WELL:	NO
RAISE TOP OF VALVE VAULT:	N/A
INSTALL WET WELL VENT PIPE	YES
UPGRADE BFP TO STANDARD, US-15	NO
RELOCATE WATER SERVICE ASSEMBLY	YES

THE VALVE ASSEMBLY PAD TO ENSURE

ASSEMBLY PAD WILL REMAIN FLUSH

THE TOPS OF THE WET WELL AND VALVE

- 1. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS.
- 2. THE CONCRETE SHALL BE GIVEN A BROOM FINISH. THE SURFACE VARIATIONS SHALL NOT BE MORE THAN 1/4" UNDER A TEN FOOT (10') STRAIGHTEDGE, NOT MORE THAN 1/8" ON A FIVE FOOT (5') TRANSVERSE SECTION. THE EDGE OF THE CONCRETE PAD SHALL BE CAREFULLY FINISHED WITH A EDGING TOOL HAVING
- EXPANSION JOINT: EXPANSION JOINTS BETWEEN THE CONC. PAD AND THE WET WELL SHALL BE 1/2" MATERIAL AND SHALL MEET THE REQUIREMENTS OF AASHTO M153 OR AASHTO M213.
- THE EXTERIOR SURFACES OF THE CONCRETE WET WELL AND VALVE PAD EXPOSED ABOVE GRADE SHALL BE COATED WITH AT LEAST TWO COATS OF H & C SILICONE ACRYLIC CONCRETE STAIN, PATIO GREEN,



Manatee County Florida

PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34

GROUI 9 201

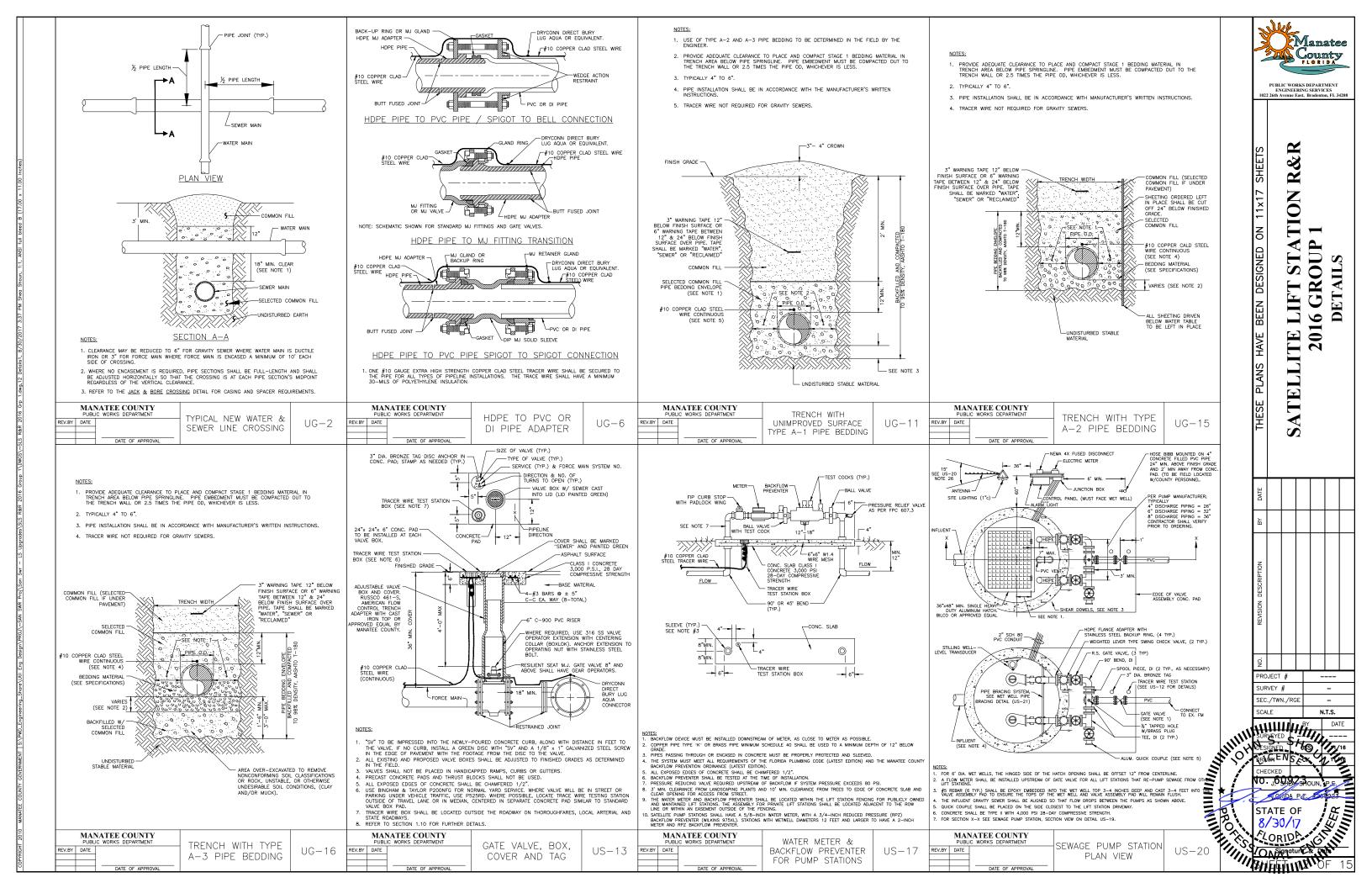
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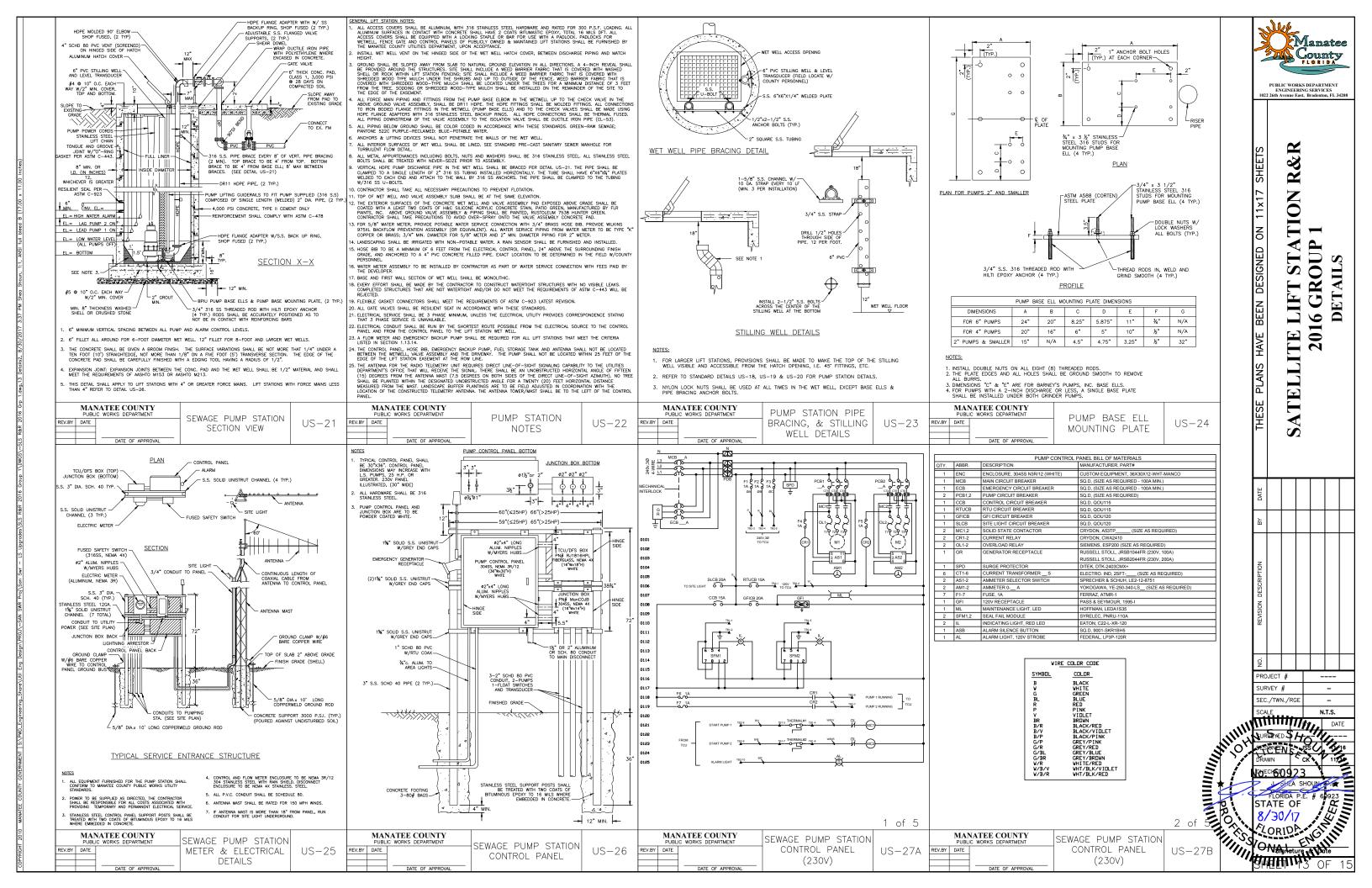
SCALE

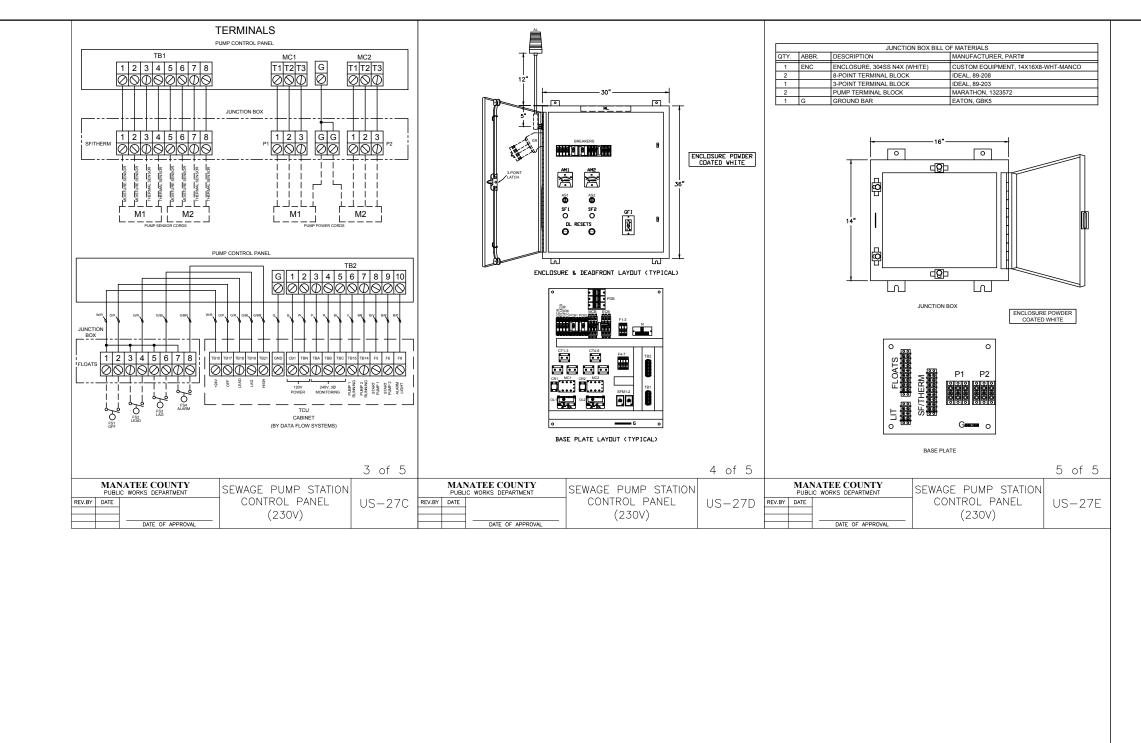
SCALE

BY

STATE









PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 3420

SATELLITE LIFT STATION R&R 2016 GROUP DETAILS

PROJECT #

SURVEY # SEC./TWN./RGE SCALE N.T.S.

SCALE N.T.S.

DATE

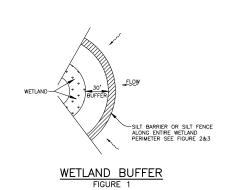
DATE

STATE OF

8/30/17

LORIDA

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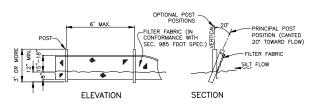
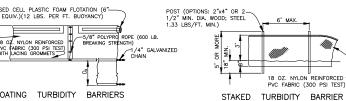


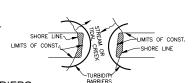
FIGURE 2

TYPICAL BALE SILT BARRIER



FLOATING TURBIDITY BARRIERS

D, =5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS). D, =5' STD. (ADDITIONAL PANEL FOR DEPTHS > 5'). CURTAIN TO REACH BOTTOM UP TO DEPTHS of 10 FEET WINQ2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE EVROINEER.



Manatee

PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 022 26th Avenue East, Bradenton, FL 3420

R&R

GROUP

2016

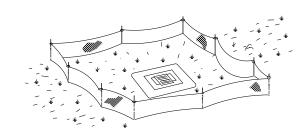
SATELLITE

PROJECT #

SURVEY # SEC./TWN./RGE

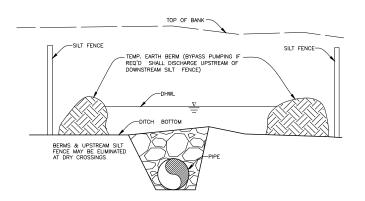
N.T.S.

TURBIDITY BARRIERS FIGURE 4

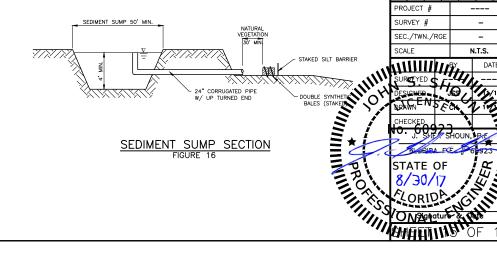


TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS

STAKED SILT BARRIER OR SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS

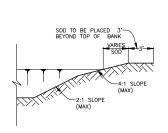


UNDERGROUND PIPE CROSSING



SEDIMENT SUMP SECTION FIGURE 16

NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF). TYPICAL SILT FENCE



-PROPOSED INLET - ROCK BAGS PARTIAL INLET COMPLETED INLET

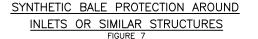
ANCHOR BALES WITH 2-2"x2"x4' STAKES PER BALE DITCH BOTTOM INLET

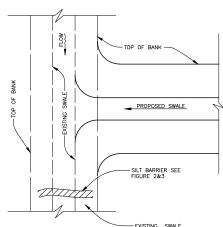
TYPICAL SWALE SECTION FIGURE 5

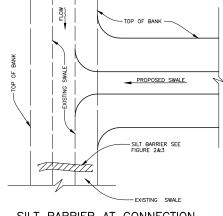
EXISTING LAKE



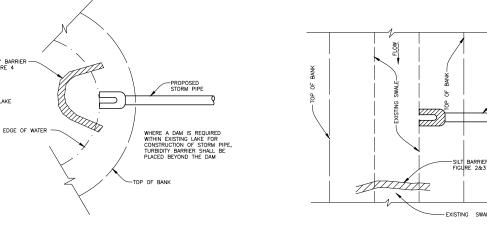
SILT BARRIER AT CONNECTION OF

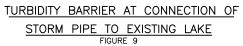


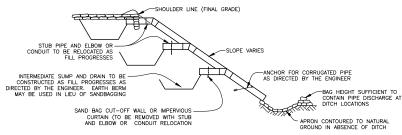




SILT BARRIER AT CONNECTION OF SWALE TO EXISTING SWALE FIGURE 11







SECTION AA TEMPORARY SLOPE DRAIN FIGURE 15

STORM PIPE TO EXISTING SWALE FIGURE 10 SOD ALONG CURB AND AROUND INLET FIGURE 14 REFERENCE THE FDOT DESIGN STANDARDS LATEST EDITION FOR ALL TEMPORARY EROSION CONTROL MEASURES.