## SATELLITE LIFT STATION R&R **2022 GROUP 1** 402-0019707 / 5001301

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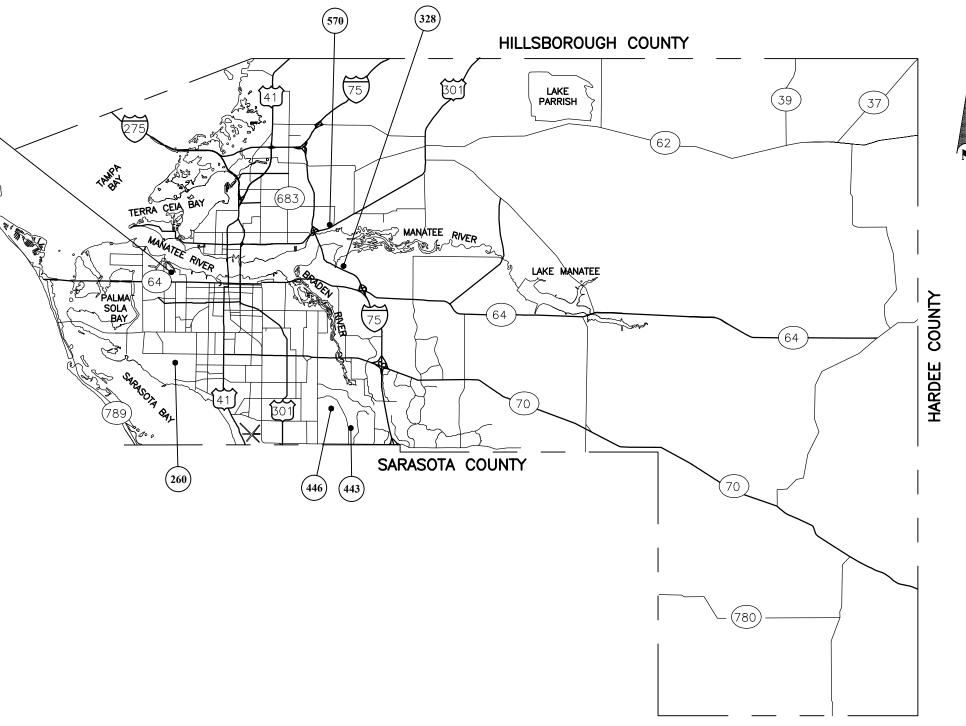
L.S. NAME	RTU	ADDRESS	PROJECT JL NO.	INFLUENT MH
HARBOR WOODS	228	5116 4TH AVE NW, BRADENTON	402-5162480	PUBLIC
BOLLETIERI PARK	260	5691 47TH ST W, BRADENTON	402-5162481	PUBLIC
KAY RD	328	900 KAY RD, BRADENTON	402-5162482	PUBLIC
PALM-AIRE 3	443	7583 WHITFIELD AVE, BRADENTON FL	402-5162483	PUBLIC
PALM-AIRE 6	446	7172 W. COUNTRY CLUB WAY, BRADENTON	402-5162484	PUBLIC
RIDGEWOOD 1	570	7004 US 301 N, PALMETTO	402-5162485	PUBLIC

PROJECT DESCRIPTION

REHABILITATE SEWAGE LIFT STATIONS (AND/OR MANHOLES) TO REDUCE RISK TO PUBLIC HEALTH AND ENVIRONMENTAL POLLUTION. THE WORK SHALL CONSIST OF, BUT NOT LIMITED TO, UPGRADE OR FULL REPLACEMENT OF THE ELECTRICAL CONTROL EQUIPMENT, WET WELL CLEANING, THE REPLACEMENT OF DISCHARGE PIPING, FITTINGS, VALVES, SWING CHECK VALVES, GUIDE RAILS, PIPE BRACINGS, BASE ELLS, AND/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.



February 2022



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SARASOTA COUNTY

## **BID PLANS**



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	<b>2022 GROUP 1</b>
	SATELLITE LIFT STATION R&R
CONSTRUCTION, WHICH MAY REQUIRE BY-PASS PUMPING AND/OR PUMPER TRUCKS. THE CONTRACTOR SHALL SUBMIT A DETAILED BY-PASS PUMPING PLAN PER SECTION 02720.         NO.       REVISION DESCRIPTION         BY       DATE	THE RECORD DRAWINGS TO THE COUNTY PROJECT MANAGER AND/OR INSPECTOR ON DEMAND AS THE WORK PROGRESSES.
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. 34. FOR WORK BEING DONE ON EXISTING SANITARY SEWER LINES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE FLOW OF ALL SEWAGE DURING	63. THE CONTRACTOR SHALL MAINTAIN AS-BUILT DRAWINGS OF THE WORK AS CONSTRUCTED. AS-BUILT DRAWINGS SHALL INCLUDE THE LOCATION OF ABANDONED MAINS CUT AND PLUG POINTS. AS-BUILT DRAWINGS SHALL BE ANNOTATED EACH DAY AS THE WORK PROCEEDS AND SHALL BE AVAILABLE TO THE COUNTY PROJECT MANAGER AND/OR FIELD INSPECTOR FOR REVIEW ON AN ONGOING BASIS. AS-BUILT DRAWINGS SHALL PROVIDE THE HORIZONTAL AND VERTICAL INSTALLED LOCATION OF ALL NEW PIPELINE, FITTINGS, VALVES AND APPURTENANCES REFERENCED TO FIXED SURFACE FEATURES THAT ARE SHOWN ON THE CONSTRUCTION DRAWINGS AND/OR RIGHT-OF-WAY LINES, PROPERTY CORNERS OR OTHER SURVEYED POINTS. THE CONTRACTOR SHALL BE ABLE TO PRESENT
CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE UTILITY AND BEAR ANY RELATED COSTS. 33. 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	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 1.15 SHALL BE <u>STRICTLY</u> ENFORCED. A COPY OF SECTION 1.15 CAN BE PROVIDED UPON REQUEST.
THE COUNTY. ALL EXISTING AND PROPOSED VALVE COVERS, RIMS, ETC, SHALL BE BROUGHT TO FINAL GRADE OF THE PROJECT AREA. 32. THE CONTRACTOR SHALL USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED, OR OFFERED BY AN EXISTING UTILITY, (I.E. 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	61. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.
31. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER/RECLAIM/SEWER LINES, STORM DRAINS, OTHER 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 SOLUTIONS AT NO ADDITIONAL COST TO	60. 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.
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.	59. 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.
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,	58. 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.
COVERS, ETC. 30. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE	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.
<u>UTILITIES</u> 29. ALL EXISTING FACILITIES IN THE PROJECT AREA SHALL REMAIN OPERATIONAL AND ACCESSIBLE BY COUNTY PERSONNEL AT ALL TIMES, I.E. VALVES, MANHOLE	57. THE CONTRACTOR, PRIOR TO ANY TEMPORARY WATER SHUT-OFFS DURING WATER MAIN THE-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
28. 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.	<ul> <li>56. ALL PENETRATIONS OF EXISTING STRUCTURES SHALL BE BY MECHANICAL ROTARY CORE DRILLING METHOD. ALL CONCRETE PENETRATED OR DISTURBED SHALL BE COATED WITH TWO COATS OF EPOXY.</li> <li>57. THE CONTRACTOR, PRIOR TO ANY TEMPORARY WATER SHUT-OFFS DURING WATER MAIN TIE-IN, ETC., SHALL NOTIFY THE AFFECTED RESIDENTS BY POSTING</li> </ul>
27. 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.	55. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
26. 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.	54. 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.
25. 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.	53. 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.
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.	SHOWN ON THE DETAIL SHEETS. 52. 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.
23. 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. 24. THE CONTRACTOR. PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC. MUST OBTAIN A RIGHTS-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN. THE	50. ALL PIPE AND FITTINGS SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND ALL PIPE JOINTS SHALL BE RESTRAINED WHERE REQUIRED. 51. ALL FITTINGS FOR PRESSURE CLASS-RATED PIPE SHALL BE RESTRAINED DUCTILE IRON. RESTRAINED LENGTHS OF PIPE SHALL ADHERE TO THE REQUIREMENTS AS
22. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS. 23. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE AND RESTORE PROPERTY CORNER MONUMENTS, PINS,	49. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.
21. FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS. <u>RIGHT-OF-WAY</u>	48. 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. MODIFICATIONS MUST BE APPROVED BY THE ENGINEER OF RECORD.
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.	<ol> <li>46. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA.</li> <li>47. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM.</li> </ol>
19. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED. 20. 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	45. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES. 46. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA.
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. 19. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR	PART OF DAILY CLEAN UP. 44. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
WITHIN THREE (3) DAYS OF EXCAVATION. 18. 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,	AFFECTED RESIDENCES, AS APPROVED BY THE ENGINEER. 43. 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
DIKES SHALL BE STABILIZED AND PROTECTED FROM DRAINAGE DAMAGE OR EROSION WITHIN ONE (1) WEEK OF INSTALLATION. 17. ALL SWALES, DITCHES, AND CHANNELS LEADING FROM THE SITE SHALL BE PROTECTED FROM SILTATION AND EROSION DURING CONSTRUCTION AND BE SODDED	CONSTRUCTION 42. 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
16. 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	41. 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. RESTORATION EFFORTS SHALL BE INCLUDED IN THE PROJECT SCHEDULING AND PHASING PLAN TO DEMONSTRATE HOW THE RESTORATION WILL BE ACHIEVED.
15. 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.	40. ALL EXISTING SIGNING, THERMOPLASTIC PAVEMENT MARKINGS, ETC SHALL BE RESTORED/PROVIDED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MUTCD, FDOT DESIGN STANDARDS AND THE MANATEE COUNTY PUBLIC WORKS DEPARTMENT HIGHWAY, TRAFFIC AND STORMWATER STANDARDS, AND/OR AS DIRECTED BY THE COUNTY.
14. 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.	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. LIME ROCK BASE SHALL COME FROM AN APPROVED FDOT PIT.
TABLE 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.	<ul> <li>38. CONCRETE DRIVEWAYS OR SIDEWALKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO THE CURRENT EDITIONS OF THE MANATEE COUNTY PUBLIC WORKS STANDARDS PART 3. HIGHWAY &amp; TRAFFIC STANDARDS MANUAL DATED JUNE 2015, SECTION 3.7 DRIVEWAYS AND SECTION 3.8 SIDEWALKS AND/OR THE F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN AND THE F.D.O.T. DESIGN STANDARDS. CONCRETE WITH A 3,000 PSI @ 28 DAYS SHALL BE USED.</li> <li>39. WHENEVER A PERMANENT ROADWAY SURFACE IS NOT PLACED IMMEDIATELY AFTER BACKFILLING AND COMPACTION OF THE NEWLY INSTALLED PIPE LINE IN AREAS</li> </ul>
PROVIDING A CONTINUOUS SAFE WORKSPACE.	37. ASPHALT DRIVES THAT ARE CUT SHALL BE RESTORED PER SECTION 02513 OF THE INFRASTRUCTURE ENGINEERING STANDARD SPECIFICATION.
11. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.	36. 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.
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 TO ALL OSHA REQUIREMENTS.	35. 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.
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 REALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 29 CFR 1926.650, SUBPART P, AS AMENDED. THE CONTRACTOR	<u>RESTORATION</u> 34. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
SECTION 01310 OF THE SPECIFICATIONS. <u>SAFETY</u>	F. CONTRACTOR SHALL COORDINATE WITH COUNTY CROSS CONNECTION STAFF & PRIVATE PROPERTY OWNER AS REQUIRED. CROSS CONNECTION STAFF SHALL DETERMINE WHICH PROPERTIES REQUIRE A BPA AND TYPE OF BPA TO BE INSTALLED.
FOR THE POSSIBLE RELOCATION OR THE TEMPORARY MOVEMENT OF ANY EXISTING UTILITIES WITHIN THE RIGHTS-OF-WAY. 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	D. ALL BPA SHALL BE INSTALLED 4–5 FEET FROM THE EDGE OF DRIVEWAYS OR ANY OTHER ITEMS/FEATURES THE BPA MAY CREATE AN OBSTRUCTION. E. VACUUM BREAKERS SHALL BE INSTALLED ON ALL EXTERNAL HOSE BIBBS.
7. 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	C. IF IN-GROUND IRRIGATION SYSTEM IS CONNECTED TO THE POTABLE WATER LINE, AN ADDITIONAL REDUCED PRESSURE (RP) BPA SHALL BE INSTALLED AT THE POINT OF CONNECTION.
6. 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.	VALVE, WHERE NORMAL SUPPLY PRESSURE EXCEEDS 80 PSI. CONTRACTOR SHALL COORDINATE WITH COUNTY CROSS CONNECTION CONTROL STAFF AS REQUIRED.
<ol> <li>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.</li> </ol>	B. A LICENSED PLUMBER SHALL INSTALL THE BPA'S IN ACCORDANCE WITH THE CURRENT FLORIDA PLUMBING CODE AND MANATEE COUNTY CODE OF ORDINANCES, AND SHALL SELECT A PRESSURE RELIEF VALVE WITH AN APPROPRIATE PRESSURE SET POINT TO PROTECT THE CUSTOMERS' PLUMBING AND NOT ALLOW EXCESSIVE LEAKAGE DUE TO SYSTEM SUPPLY PRESSURE. A PRESSURE REDUCING VALVE MAY BE NECESSARY UPSTREAM OF THE PRESSURE RELIEF
4. 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.	• COMMERCIAL, INDUSTRIAL, MULTISTORY OR MULTIFAMILY RESIDENTIAL FACILITY, • CROSS CONNECTION IS FOUND, • FOUNTAIN WITH A DEDICATED FILL PIPE, • FIRE SPRINKLER SYSTEM.
3. ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH <b>THE LATEST EDITION OF MANATEE COUNTY UTILITY AND TRANSPORTATION STANDARDS</b> AND/OR FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" UNLESS OTHERWISE INDICATED ON THE PLANS.	•PROPERTY THAT ABUTS A BODY OF WATER, INCLUDING RIVER, BAY, LAKE OR POND ON THE PROPERTY OR BORDERING THE PROPERTY, •FLOOD ZONE DESIGNATION, (IF ONLY FLOOD ZONE, INSTALL A DOUBLE CHECK BPA), •SOLAR WATER HEATING SYSTEM,
THE PROJECT MANAGER IS: ANTHONY BENITEZ, P.E. AND CAN BE REACHED AT 941.708.7450 x7333. 2. SITE VISITS ARE MANDATORY FOR ALL BIDDERS.	•SWIMMING POOL, •IN-GROUND IRRIGATION SYSTEM OR UNDERGROUND SPRINKLERS, •SECONDARY SOURCE OF WATER (I.E. RECLAIMED WATER OR WELL),
1. ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION.	RELIEF VALVE AT THE POTABLE WATER METER WHENEVER ANY OF THE FOLLOWING CONDITIONS EXIST AT A PROPERTY:

## **2022 GROUP 1 GENERAL NOTES**

### SATELLITE LIFT STATION R&R

64. THE FOLLOWING IDENTIFIES THE QUALITY LEVEL OF EXISTING UTILITY LINEWORK ON PLANS. LEVEL "A" -VISUALLY LOCATED OR SOFT DIGS (HORIZONTAL AND VERTICAL) LEVEL "B" - DESIGNATED BY GPR OR FLAGGING (HORIZONTAL) LEVEL "C" -SURFACE VISIBLE FEATURES SURVEY LEVEL "D" -EXISTING RECORDS OR GIS

REFERENCE 2010 EDITION OF FDOT UTILITY ACCOMMODATION MANUAL (UAM)

EXISTING UTILITY LOCATIONS

MAINTENANCE OF TRAFFIC

ARE CONCEPTUAL.

CLOSURES OR DETOURS.

SEPARATE PAYMENT.

STANDARD INDEX 600.

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COST OF PIPE.

65. THE CONTRACTOR IS RESPONSIBLE FOR ANY TRAFFIC CONTROL PLAN (TCP) IMPLEMENTED. THE TCP SHALL BE PREPARED BY AN INDIVIDUAL CERTIFIED TO PREPARE A TCP IN THE STATE OF FLORIDA THAT MEETS OR EXCEEDS THE REQUIREMENTS OF THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS LATEST EDITION (SERIES 600). ANY DEVIATIONS MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA AND SUBMITTED TO COUNTY (AND FDOT) FOR APPROVAL AT LEAST FOURTEEN (14) DAYS PRIOR TO THE START OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COUNTY (AND FDOT) APPROVAL PRIOR TO IMPLEMENTATION AND FAILURE TO OBTAIN APPROVAL SHALL NOT BE GROUNDS FOR ANY DELAY CLAIM FOR TIME OR ADDITIONAL COMPENSATION.

66. THE CONTRACTOR PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHT-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN (TCP). 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 TCP SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.

67. THE CONTRACTOR SHALL USE, BUT ARE NOT LIMITED TO, FDOT INDICES 415, 600, 615, 616, AND 621. THE RECOMMENDED FDOT DESIGN STANDARD INDICES

68. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE TEMPORARY DRAINAGE. THERE WILL BE NO DIRECT PAY FOR THIS WORK. COSTS SHALL BE INCLUDED IN THE

69. MOTORIZED AND MECHANICAL EQUIPMENT SHALL BE EFFECTIVELY SHIELDED, PADDED, OR LOCATED TO MINIMIZE NOISE.

70. THE CONTRACTOR WILL NOTIFY ALL EMERGENCY AND RESCUE AGENCIES LOCATED IN THE PROJECT VICINITY 24 HOURS IN ADVANCE OF ANY PROPOSED LANE

71. ACCESS TO ALL SIDE STREETS AND DRIVEWAYS MUST BE PROVIDED AND MAINTAINED DURING CONSTRUCTION.

72. USE FDOT INDEX NO. 619 FOR TRAFFIC CONTROL MEASURES WHEN CONSTRUCTION EQUIPMENT IS DRIVEN ON OPEN TRAVEL LANES. THE REGULATORY SPEED IN WORK ZONES SHOULD BE AS CLOSE TO NORMAL CONDITIONS AS POSSIBLE, UNLESS NOTED ON THE TRAFFIC CONTROL PLANS. 73. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO WORKING NEAR THEIR EXISTING FACILITIES.

74. CONSTRUCTION SEQUENCES SHALL BE COORDINATED TO PROVIDE POSITIVE DRAINAGE OF THE TRAVELWAYS AT ALL TIMES.

75. ANY MOT ITEM NOT SPECIFICALLY LISTED UNDER A PARTICULAR PAY ITEM SHALL BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS. THERE SHALL BE NO

76. THE MAXIMUM SPACING BETWEEN WARNING DEVICES USED FOR DELINEATION BETWEEN THE TRAVELWAY(S) AND CONSTRUCTION AREA SHALL BE AS PER FDOT

77. ALL DETOURS, IF APPROVED BY THE COUNTY, SHALL ADHERE TO THE REQUIREMENTS SET FORTH IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D. LATEST EDITION) AND THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST EDITION (600 SERIES). ANY DETOUR RECOMMENDED BY THE CONTRACTOR MUST BE SUBMITTED TO THE COUNTY (AND FDOT) FOR APPROVAL AT LEAST FOURTEEN (14) DAYS PRIOR TO THE START OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COUNTY (AND FDOT) APPROVAL PRIOR TO IMPLEMENTATION AND FAILURE TO OBTAIN APPROVAL SHALL NOT BE GROUNDS FOR ANY DELAY CLAIM FOR TIME OR ADDITIONAL COMPENSATION.

		LEGEND			
EXIS	STING				
BENCH MARK	(Line)	BUSH		ABBREVIATIONS	
CONCRETE MONUMENT		TREE			
IRON PIPE	ES.	OAK TREE	R/W	RIGHT OF WAY	
IRON ROD	Š.	PALM TREE	CONC	CONCRETE	
HUB		PINE TREE	ASPH	ASPHALT	
NAIL & DISK	×.		DRWY	DRIVEWAY	
ELEVATION			SWK	SIDEWALK	
PARCEL ID NO.			EP	EDGE OF PAVEMENT	
PARCEL ID NO.	$\sim$	EDGE OF VEGETATION	BOC	BACK OF CURB	
LOT NO.		- CHAIN LINK FENCE	~~-	FLOW ARROW	
GUY WIRE		- WOOD FENCE			
POWER POLE		- BARBED WIRE FENCE			
LIGHT POLE	——— FM ———	- FORCE MAIN			
MAIL BOX	PW	- POTABLE WATER			
SIGN		- RECLAIMED WATER			
REFLECTOR	ss	- SANITARY SEWER			
SPRINKLER	s	- STORM DRAIN			
GAS MARKER	GAS	- GAS LINE			
BACKFLOW PREVENTER	OCHR	- OVERHEAD CHARTER			
BLOW OFF VALVE	CHR	- UNDERGROUND CHARTER			
FIRE HYDRANT	OE	- OVERHEAD ELECTRIC			
WATER VALVE	——— ВЕ ———	- UNDERGROUND ELECTRIC			
AIR RELEASE VALVE	OH FTR	- OVERHEAD FRONTIER			
WATER METER	FTR	- UNDERGROUND FRONTIER			
SANITARY SEWER MANHOLE	РСО	- UNDERGROUND PRECO			
SANITARY SEWER CLEAN OUT	FPL	- UNDERGROUND FPL			
SOIL BORING LOCATION	——— он ———	- OVERHEAD UTILITY			
TELEPHONE SERVICE BOX	+++++++++++++++++++++++++++++++++++++++	- RAIL ROAD TRACKS			
UTILITY BOX		- EDGE OF CONCRETE			
UTILITY RISER		- EDGE OF ROAD			
FLOW DIRECTION		- TOE OF SLOPE			
GRATE INLET		- TOP OF BANK			
MITERED END SECTION		- PROPERTY LINE			
STORM SEWER MANHOLE		RIGHT OF WAY			
	FMFRGF	NCY CONTACTS			
DUNTY PUBLIC FRONTIER T. 1701 RIN		SOUTHWEST FLORIDA WANAGEMENT DISTRICT S		ARTMENT OF ENVIRONMENTAL TECTION	

WORKS DEPT 1022 26TH AVENUE EAST BRADENTON, FL. 34208 JIM RENNEBERG. P.E. (941) 708-7450 EXT. 7220 FAX: (941) 708-7415

TECO/PEOPLES GAS CO. 8261 VICO COURT SARASOTA, FL. 34240 (941) 342-4030 DAN SHANAHAN FAX: (941) 342-4011 EMERGENCY: 1-877-832-6911

2101 47TH TERRACE EAST BRADENTON, FL 34203 VISHAL KAKKAD, P.E (941) 749-3500 EXT. 7812 FAX: (941) 749-3571 vishal.kakkad@mvmanatee.d

1701 RINGLING BLVE SARASOTA, FL. 34236 JOHN PLOTT (941) 906-6707 FAX: (941) 906-6706 John.Plott@ftr.com FLORIDA POWER & LIGHT 1253 12TH AVENUE EAST

PALMETTO, FL 34221 GREG COKER (941) 723-4430FAX: (941) 723-4444 EMERGENCY: 1-800-4-OUTAGE Greg\_Coker@fpl.com

MANATEE COUNTY HEALTH DEPT. 410 6th AVENUE EAST BRADENTON, FL. 34208 (941) 748–0747 EXT. 1355 FAX: (941) 750-9364



PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208

MANAGEMENT DISTRICT SARASOTA PROTECTION SERVICE OFFICE STEVE LOPES 6750 FRUITVILLE ROAD SARASOTA, FL. 34240 (941) 377-3722 FAX: (941) 373-7660

FLORIDA GAS TRANSMISSION 7804 ANDERSON RD. TAMPA FL 33634 CHAD HARRELL PHONE: (813) 466-3327 E-mail: chad.harrell@sug.com PEACE RIVER ELECTRIC

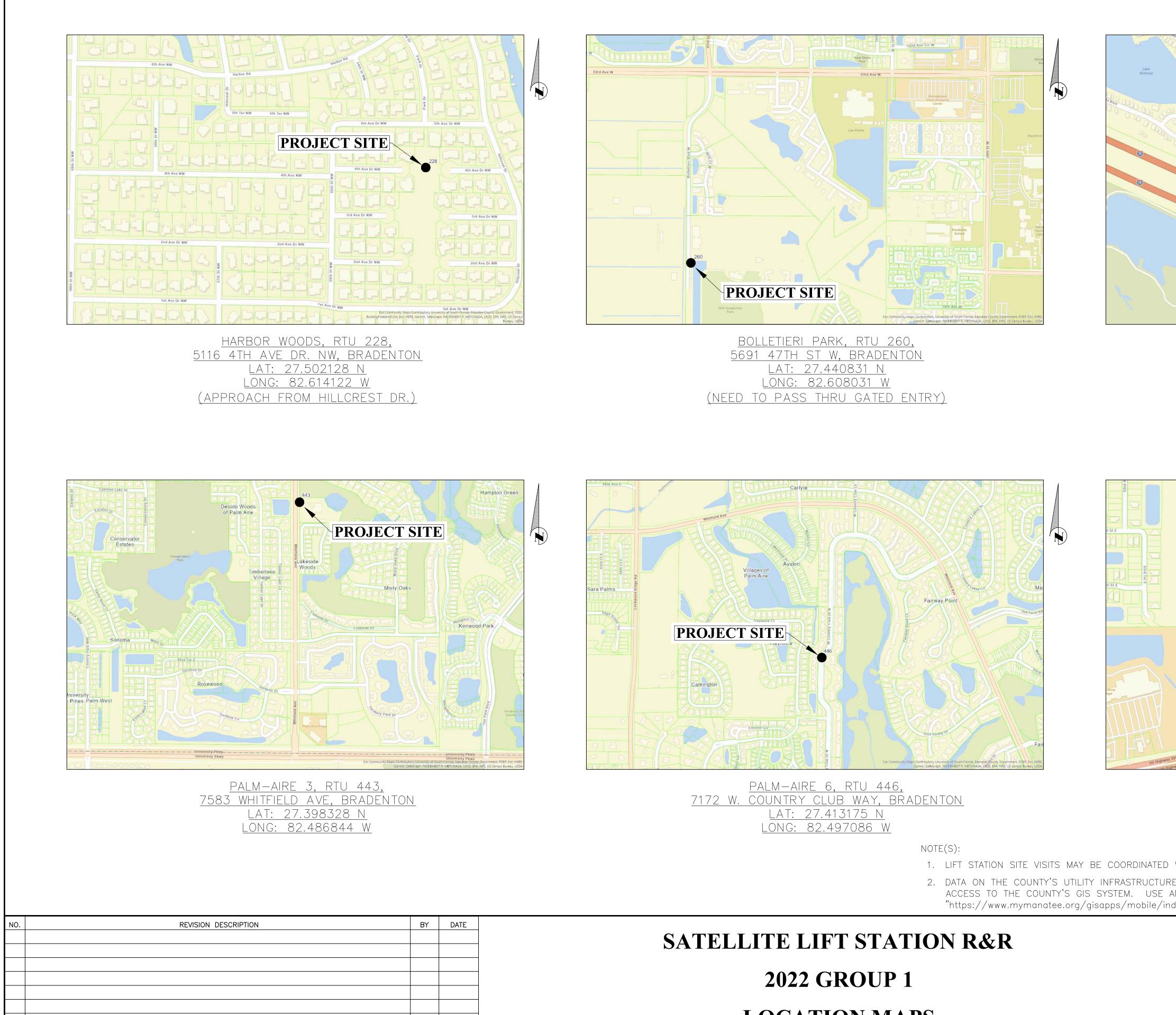
COOPERATIVE, INC. P.O. BOX 1310 WACHULA, FL 33873 KENDELL COKER (863) 767–4660

13051 N. TELECOM PKWY TEMPLE TERRACE, FL 33637 ED WATSON PHONE: (813) 470-5875 FAX: (813) 470-5993

5413 E. STATE ROAD 64 BRADENTON, FL. 34208-5535 TOM WRIGHT (941) 748-3816 EXT. 21348 Tom.Wright@charter.com SUNSHINE STATE ONE CALL OF FLORIDA 1-(800) 432-4770

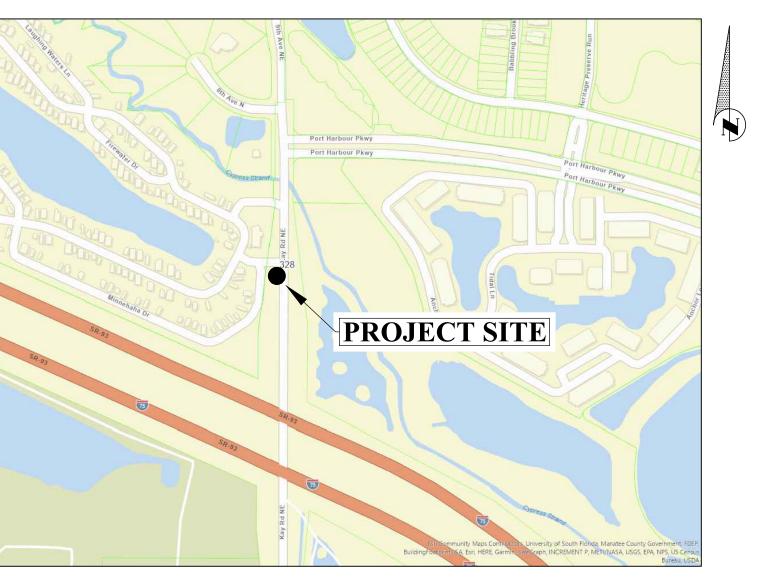
CHARTER COMMUNICATION

dell.coker@preco.c	соор		u ح
PROJECT # 40		0019707 / 001301	J. SHEA SHOUN, P.E.
SURVEY #	SURVEY #		FLOR ASP. 5+ # 190923
SEC./TWN./	SEC./TWN./RGE		FLOP DASP.5+ # 60923
SCALE		N.T.S.	No. 60923
	BY	DATE	NO. 60923
SURVEYED	NA	NA	
DESIGNED	JSS	6/2021	
DRAWN	JSS	6/2021	Signa Hini Date
CHECKED	JSS	-	SHEET 02 OF 12

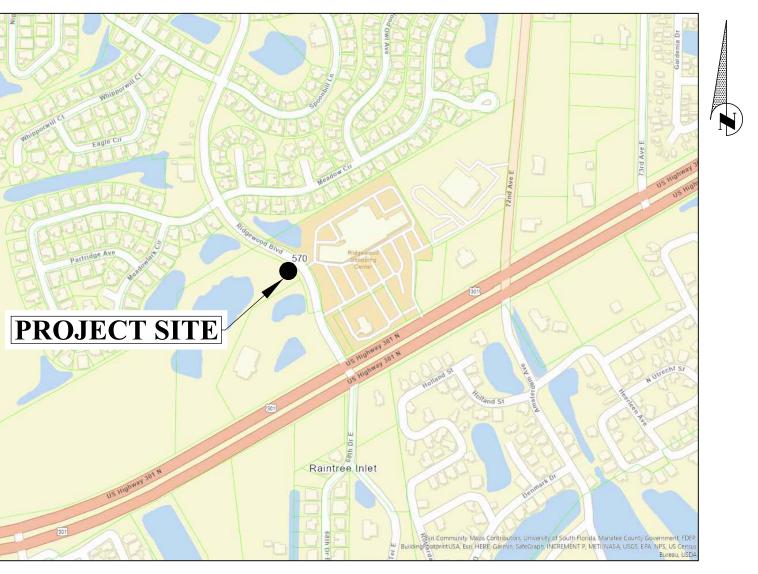


- 1. LIFT STATION SITE VISITS MAY BE COORDINATED WITH NICK WAGNER, 941-792-8811 x5377.
- 2. DATA ON THE COUNTY'S UTILITY INFRASTRUCTURE MAY BE RESEARCHED AND VIEWED BY UTILIZING THE PUBLIC ACCESS TO THE COUNTY'S GIS SYSTEM. USE AN INTERNET BROWSER AND ENTER THE FOLLOWING URL, "https://www.mymanatee.org/gisapps/mobile/index.html?type=utilities-public".

# **LOCATION MAPS**

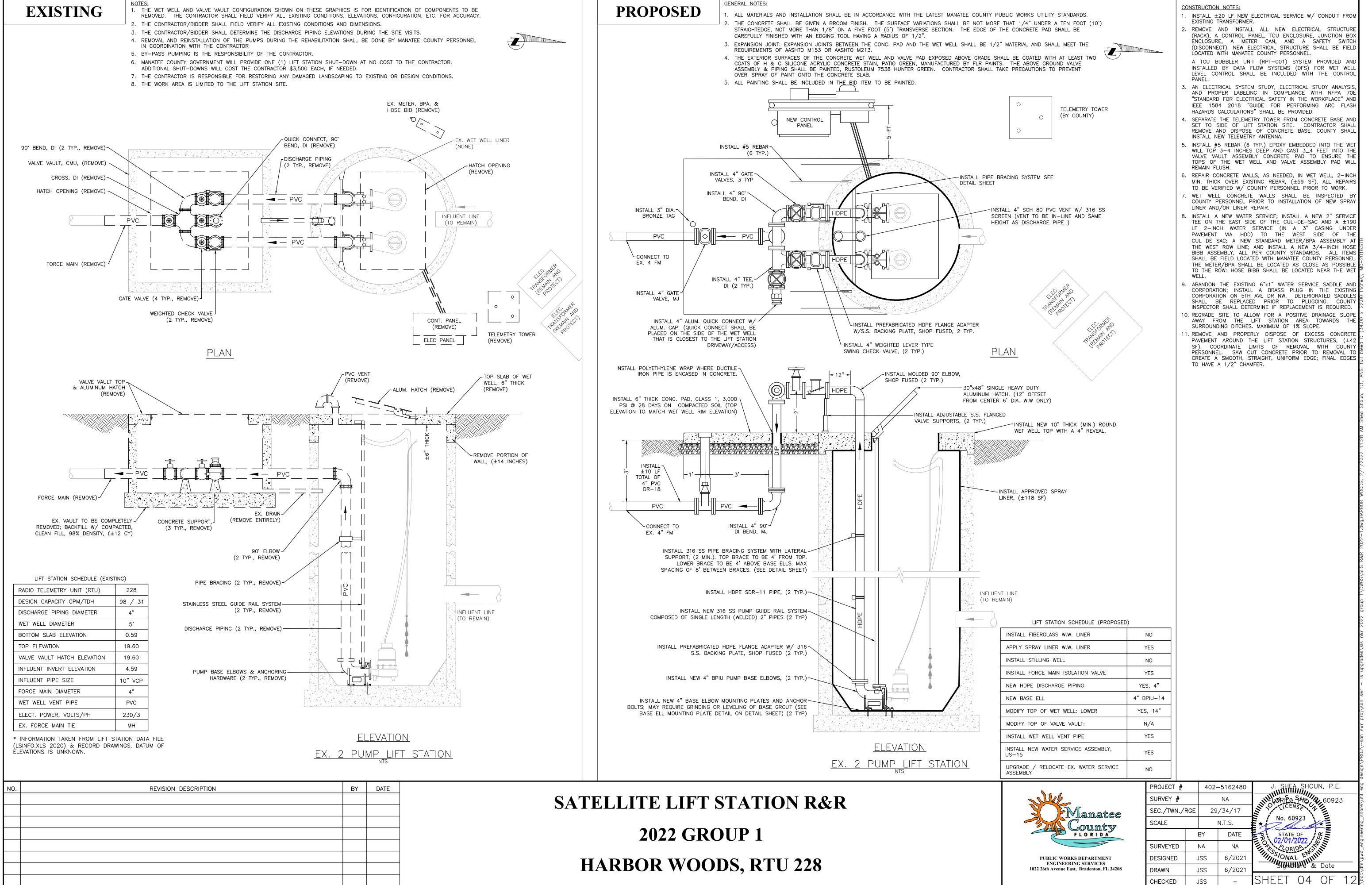


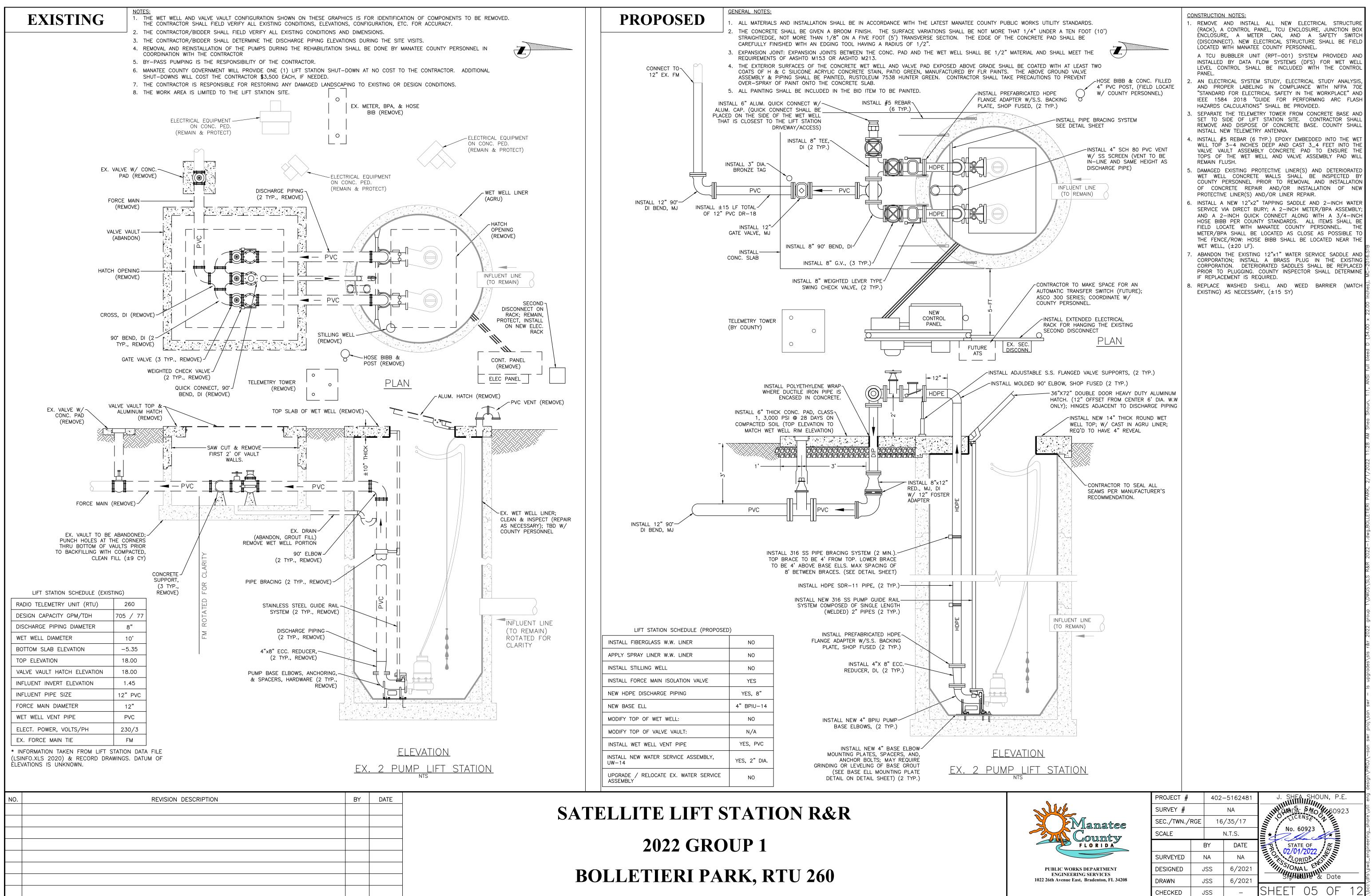
<u>KAY RD, RTU 328,</u> 900 KAY RD, BRADENTON LAT: 27.504644 N LONG: 82.481492 W



<u>RIDGEWOOD 1, RTU 570,</u> 7004 US 301 N., PALMETTO LAT: 27.535494 N LONG: 82.494775 W

	PROJECT #			0019707 / 001301	J. SH	EA SHOU	JN, P.E	•
New States	SURVEY #			NA	FLOHD		6092	3
Manatee	SEC./TWN./R	GE	١	/ARIES		CENSE	NIL	_
Compty	SCALE			N.T.S.	No.	. 60923		•
FLORIDA		E	3Y	DATE		ATE OF		
	SURVEYED	1	٨٨	NA	Po 02/	01/2022		
PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES	DESIGNED	J	SS	6/2021	-III SSIO	ORID	3 III	
1022 26th Avenue East, Bradenton, FL 34208	DRAWN	J	SS	6/2021		d'orent	<b>N</b> Date	
	CHECKED	J	SS	_	SHEET	03	OF	12

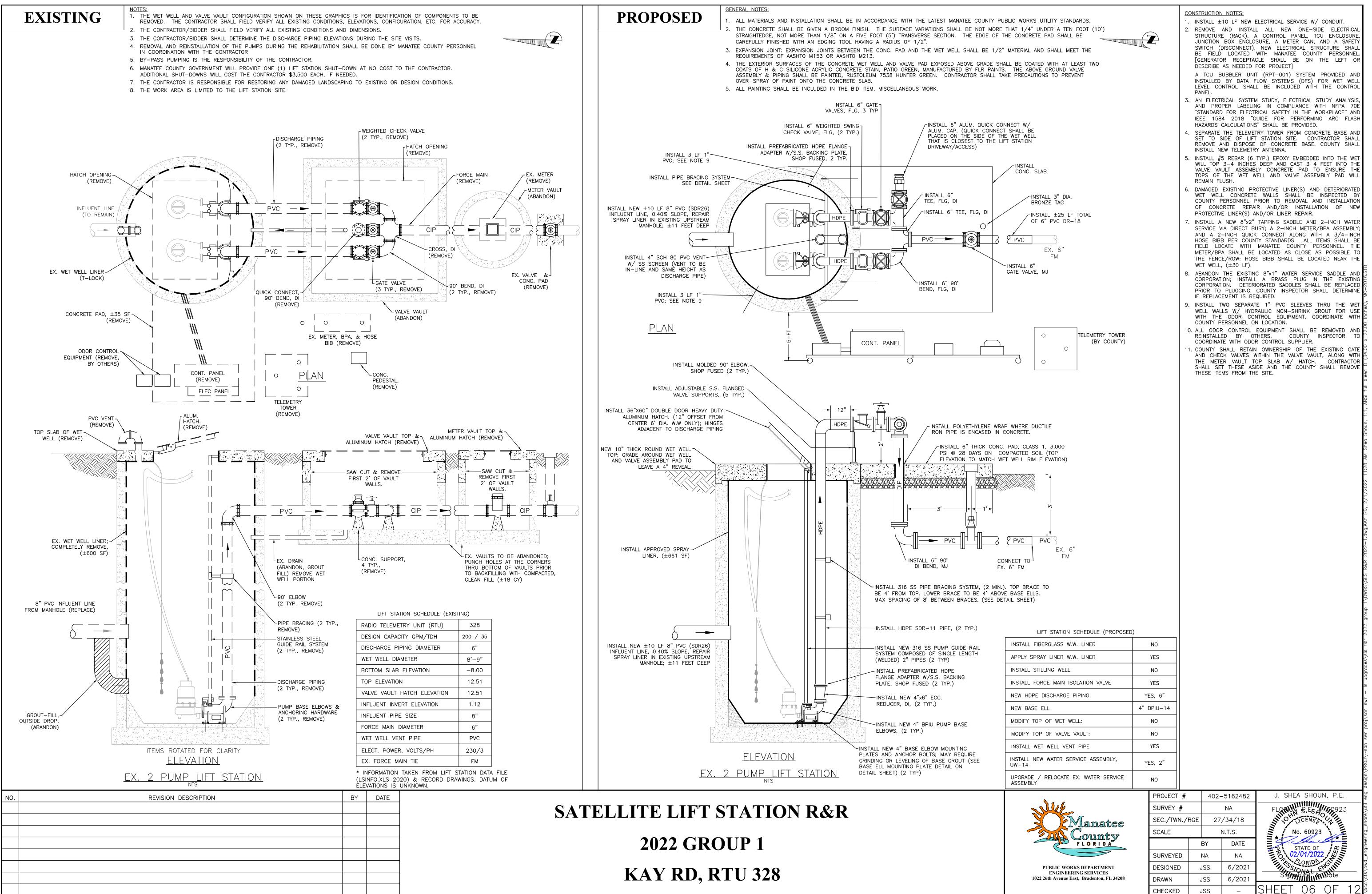




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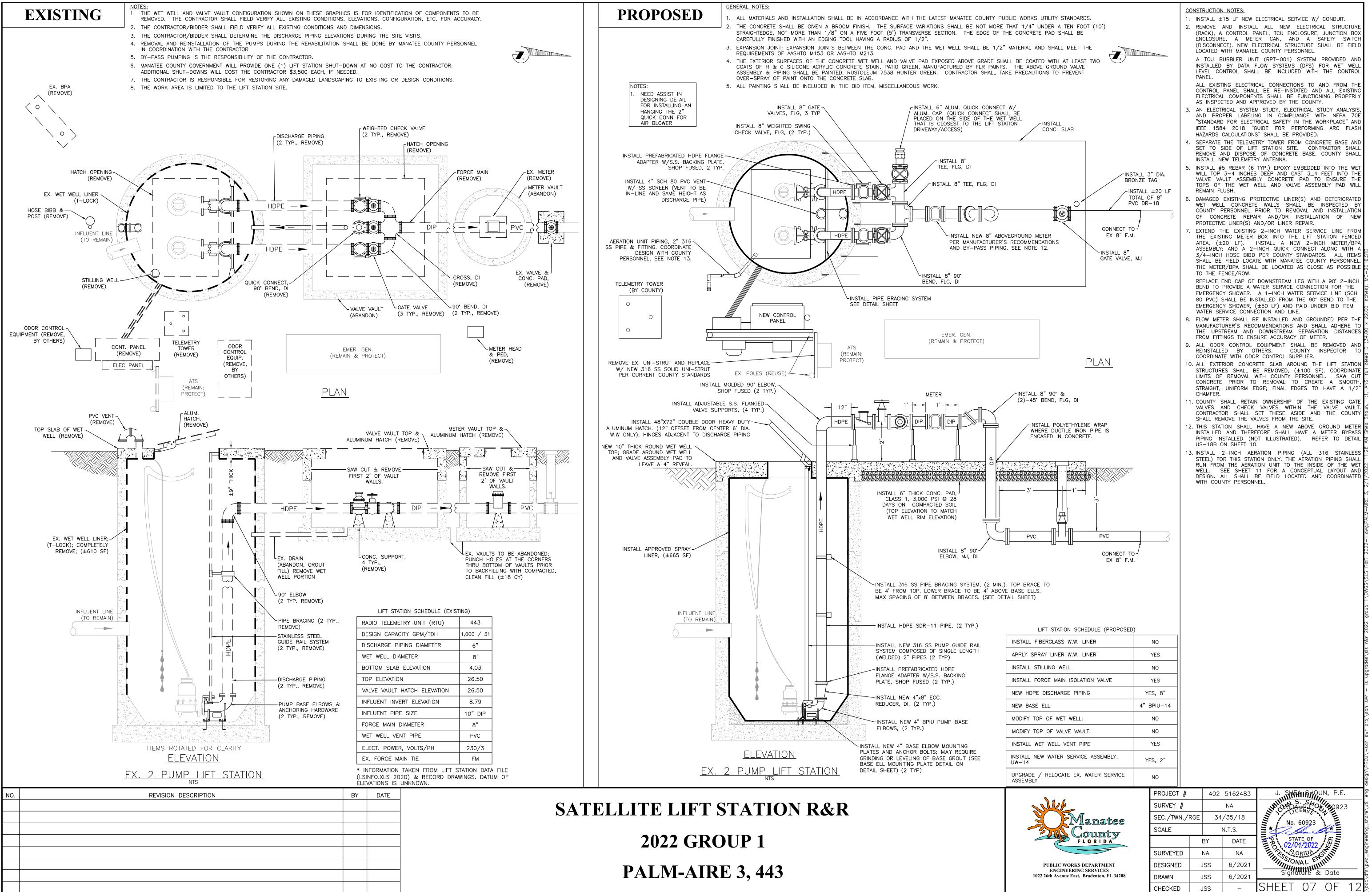
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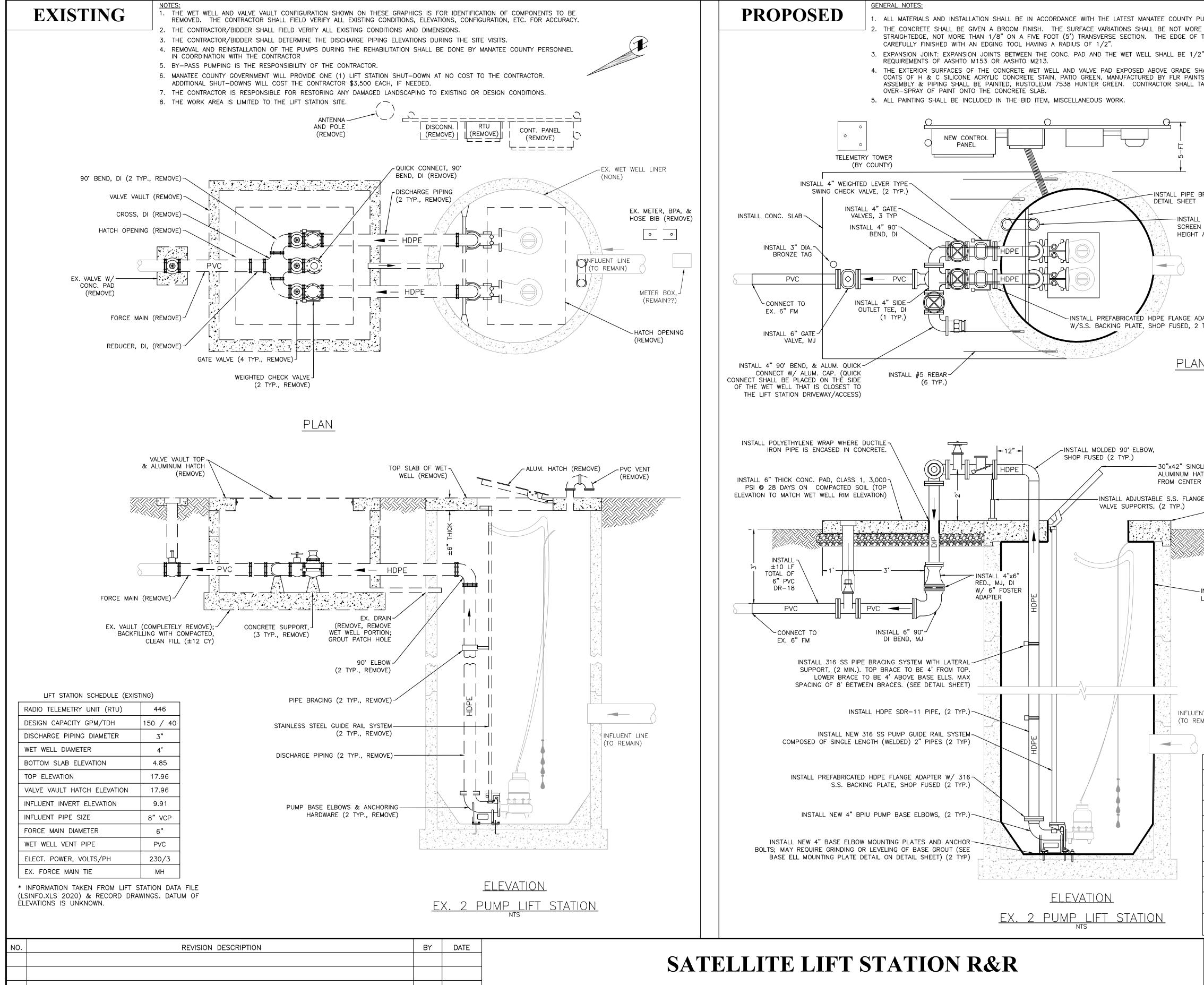


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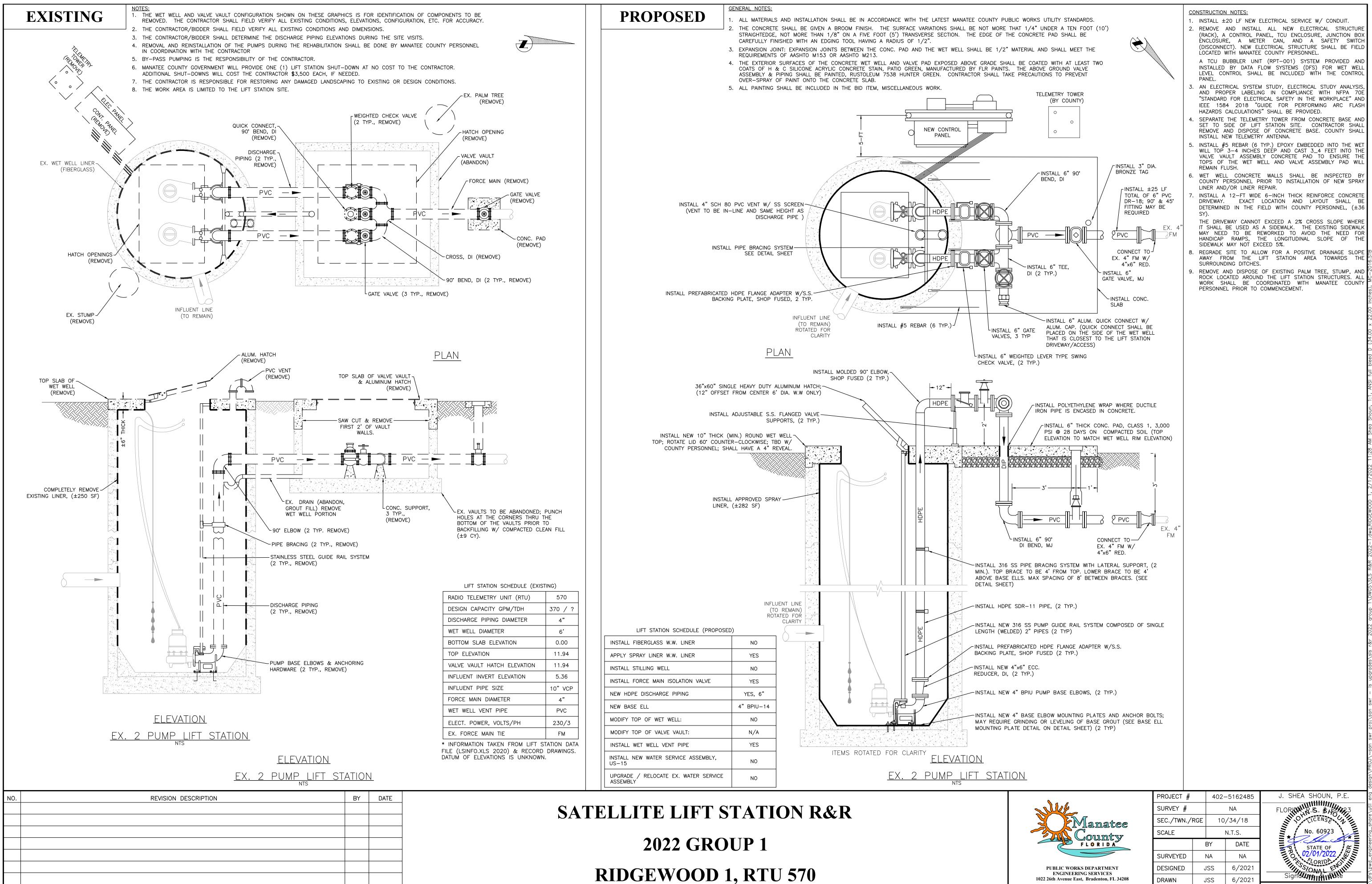
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## ATELLITE LIFT STATION R& 2022 GROUP 1 PALM-AIRE 6, 446

			I NATEO	
UBLIC WORKS UTILITY STANDARDS.			10 LF NEW	ELECTRICAL SERVICE W/ CONDUIT.
THAT 1/4" UNDER A TEN FOOT (10') THE CONCRETE PAD SHALL BE				L ALL NEW ELECTRICAL STRUCTURE ANEL, TCU ENCLOSURE, JUNCTION BOX
		ÈNCLÓSUF	RE, A MET	ER CAN, AND A SAFETY SWITCH LECTRICAL STRUCTURE SHALL BE FIELD
" MATERIAL AND SHALL MEET THE		LOCATED	WITΉ MANATE	E COUNTY PERSONNEL.
ALL BE COATED WITH AT LEAST TWO S. THE ABOVE GROUND VALVE		INSTALLED	BY DATA F	T (RPT-001) SYSTEM PROVIDED AND FLOW SYSTEMS (DFS) FOR WET WELL
KE PRECAUTIONS TO PREVENT		PANEL.		L BE INCLUDED WITH THE CONTROL
		AND PRO	PER LABELI	M STUDY, ELECTRICAL STUDY ANALYSIS NG IN COMPLIANCE WITH NFPA 70E
		IEEE 158	34 2018 "0	RICAL SAFETY IN THE WORKPLACE" AND SUIDE FOR PERFORMING ARC FLASH
		4. SEPARATE	THE TELEME	S" SHALL BE PROVIDED. TRY TOWER FROM CONCRETE BASE ANE
		REMOVE /	AND DISPOSE	F STATION SITE. CONTRACTOR SHALL OF CONCRETE BASE. COUNTY SHALL
			EW TELEMETR	Y ANTENNA. TYP.) EPOXY EMBEDDED INTO THE WET
		WILL TOP	3-4 INCHES	DEEP AND CAST 3_4 FEET INTO THE
RACING SYSTEM SEE		TOPS OF REMAIN F		VELL AND VALVE ASSEMBLY PAD WILL
				E WALLS SHALL BE INSPECTED BY PRIOR TO INSTALLATION OF NEW SPRAY
2" SCH 80 PVC VENT W/ 316 SS (VENT TO BE IN—LINE AND SAME		LINER ANI	D/OR LINER F	REPAIR.
AS DISCHARGE PIPE )		SERVICE	VIA HDD; N	TAPPING SADDLE AND 2-INCH WATER EW STANDARD METER/BPA ASSEMBLY
		COUNTY	STANDARDS.	3/4-INCH HOSE BIBB ASSEMBLY PER ALL ITEMS SHALL BE FIELD LOCATE
		BE LOCAT	ED AS CLOS	PERSONNEL. THE METER/BPA SHALL SE AS POSSIBLE TO THE FENCE/ROW
		HOSE BIE LF).	B SHALL BE	LOCATED NEAR THE WET WELL, (±45
		8. ABANDON	THE EXISTIN	G 8"x1" WATER SERVICE SADDLE AND A BRASS PLUG IN THE EXISTING
		CORPORA	ION. DETER	IORATED SADDLES SHALL BE REPLACED
APTER TYP.		IF REPLAC	EMENT IS RE	QUIRED.
		EXISTING	LANDSCAPE F	ROCK (MATCH EXISTING) TO REPLENISH ROCK REMOVED, (±10 SY); GRADE THE
		AWAY FR	OM LIFT STA	ELL TO ALLOW FOR POSITIVE DRAINAGE TION AND TO HAVE A 4" REVEAL ON
<u>l</u>			WELL/VALVE COUNTY PERS	ASSEMBLY PAD. COORDINATE WITH SONNEL.
		LIFT STAT	ION. REPLAC	G LANDSCAPING HEDGE AROUND THE CE IN KIND, IF DAMAGED OR REMOVED
			ACTOR EXPEN	
E HEAVY DUTY				
CH. (12" OFFSET 6' DIA. W.W ONLY)				
ED				
INSTALL NEW 10" THICK (MIN.) ROUND				
WET WELL TOP WITH 4" REVEAL.				
	I			
NSTALL APPROVED SPRAY JINER, (±190 SF)				
INER, (±190 SF) T LINE				
INER, (±190 SF) T LINE				
INER, (±190 SF) T LINE IAIN)				
INER, (±190 SF) F LINE AIN) LIFT STATION SCHEDULE (PROPOSEE				
INER, (±190 SF) T LINE AIN) LIFT STATION SCHEDULE (PROPOSEE INSTALL FIBERGLASS W.W. LINER	NO			
INER, (±190 SF) T LINE AIN) LIFT STATION SCHEDULE (PROPOSEE INSTALL FIBERGLASS W.W. LINER APPLY SPRAY LINER W.W. LINER				
INER, (±190 SF) T LINE IAIN) LIFT STATION SCHEDULE (PROPOSEE INSTALL FIBERGLASS W.W. LINER	NO			
INER, (±190 SF) T LINE IAIN) LIFT STATION SCHEDULE (PROPOSEE INSTALL FIBERGLASS W.W. LINER APPLY SPRAY LINER W.W. LINER	NO YES			
INER, (±190 SF) T LINE IAIN) LIFT STATION SCHEDULE (PROPOSEE INSTALL FIBERGLASS W.W. LINER APPLY SPRAY LINER W.W. LINER INSTALL STILLING WELL	NO YES NO			
INER, (±190 SF) T LINE AIN) LIFT STATION SCHEDULE (PROPOSEE INSTALL FIBERGLASS W.W. LINER APPLY SPRAY LINER W.W. LINER INSTALL STILLING WELL INSTALL FORCE MAIN ISOLATION VALVE	NO YES NO YES			
INER, (±190 SF) LIFT STATION SCHEDULE (PROPOSED INSTALL FIBERGLASS W.W. LINER APPLY SPRAY LINER W.W. LINER INSTALL STILLING WELL INSTALL FORCE MAIN ISOLATION VALVE NEW HDPE DISCHARGE PIPING	NO YES NO YES YES, 4"			
NER, (±190 SF) LIFT STATION SCHEDULE (PROPOSED INSTALL FIBERGLASS W.W. LINER APPLY SPRAY LINER W.W. LINER INSTALL STILLING WELL INSTALL FORCE MAIN ISOLATION VALVE NEW HDPE DISCHARGE PIPING NEW BASE ELL	NO YES NO YES YES, 4" 4" BPIU-14			
INER, (±190 SF) LIFT STATION SCHEDULE (PROPOSEE INSTALL FIBERGLASS W.W. LINER APPLY SPRAY LINER W.W. LINER INSTALL STILLING WELL INSTALL FORCE MAIN ISOLATION VALVE NEW HDPE DISCHARGE PIPING NEW BASE ELL MODIFY TOP OF WET WELL:	NO YES NO YES YES, 4" 4" BPIU-14 NO			
INER, (±190 SF) ILIFT STATION SCHEDULE (PROPOSEE INSTALL FIBERGLASS W.W. LINER APPLY SPRAY LINER W.W. LINER INSTALL STILLING WELL INSTALL STILLING WELL INSTALL FORCE MAIN ISOLATION VALVE NEW HDPE DISCHARGE PIPING NEW BASE ELL MODIFY TOP OF WET WELL: MODIFY TOP OF VALVE VAULT: INSTALL WET WELL VENT PIPE INSTALL NEW WATER SERVICE ASSEMBLY,	NO YES NO YES YES, 4" 4" BPIU–14 NO N/A YES			
INER, (±190 SF) LIFT STATION SCHEDULE (PROPOSED INSTALL FIBERGLASS W.W. LINER APPLY SPRAY LINER W.W. LINER INSTALL STILLING WELL INSTALL FORCE MAIN ISOLATION VALVE NEW HDPE DISCHARGE PIPING NEW BASE ELL MODIFY TOP OF WET WELL: MODIFY TOP OF VALVE VAULT: INSTALL WET WELL VENT PIPE	NO YES NO YES YES, 4" 4" BPIU–14 NO N/A			
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INER, (±190 SF)	NO YES NO YES, 4" 4" BPIU–14 NO N/A YES YES YES NO PROJECT # SURVEY # SEC./TWN.,	/RGE 27	NA 7/35/18	autility.
INER, (±190 SF)	NO YES NO YES, 4" 4" BPIU–14 NO N/A YES YES YES NO PROJECT #	/RGE 27	NA 7/35/18 N.T.S.	autility.
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INER, (±190 SF)  ILIFT STATION SCHEDULE (PROPOSED INSTALL FIBERGLASS W.W. LINER APPLY SPRAY LINER W.W. LINER INSTALL STILLING WELL INSTALL FORCE MAIN ISOLATION VALVE NEW HDPE DISCHARGE PIPING NEW BASE ELL MODIFY TOP OF WET WELL: MODIFY TOP OF VALVE VAULT: INSTALL WET WELL VENT PIPE INSTALL NEW WATER SERVICE ASSEMBLY, US-15 UPGRADE / RELOCATE EX. WATER SERVICE ASSEMBLY	NO YES NO YES, 4" 4" BPIU–14 NO N/A YES YES YES NO PROJECT # SURVEY # SEC./TWN., SCALE	/RGE 27 BY NA	NA 7/35/18 N.T.S. DATE NA	FLOR PASP. 5.45 100923 No. 60923 TOTE OF
INER, (±190 SF) LIFT STATION SCHEDULE (PROPOSED INSTALL FIBERGLASS W.W. LINER APPLY SPRAY LINER W.W. LINER INSTALL STILLING WELL INSTALL FORCE MAIN ISOLATION VALVE NEW HDPE DISCHARGE PIPING NEW BASE ELL MODIFY TOP OF WET WELL: MODIFY TOP OF VALVE VAULT: INSTALL WET WELL VENT PIPE INSTALL WET WELL VENT PIPE INSTALL NEW WATER SERVICE ASSEMBLY, US-15 UPGRADE / RELOCATE EX. WATER SERVICE ASSEMBLY	NO YES NO YES, 4" 4" BPIU–14 NO N/A YES YES YES NO PROJECT # SURVEY # SEC./TWN., SCALE	/RGE 27	NA 7/35/18 N.T.S. DATE	autility.

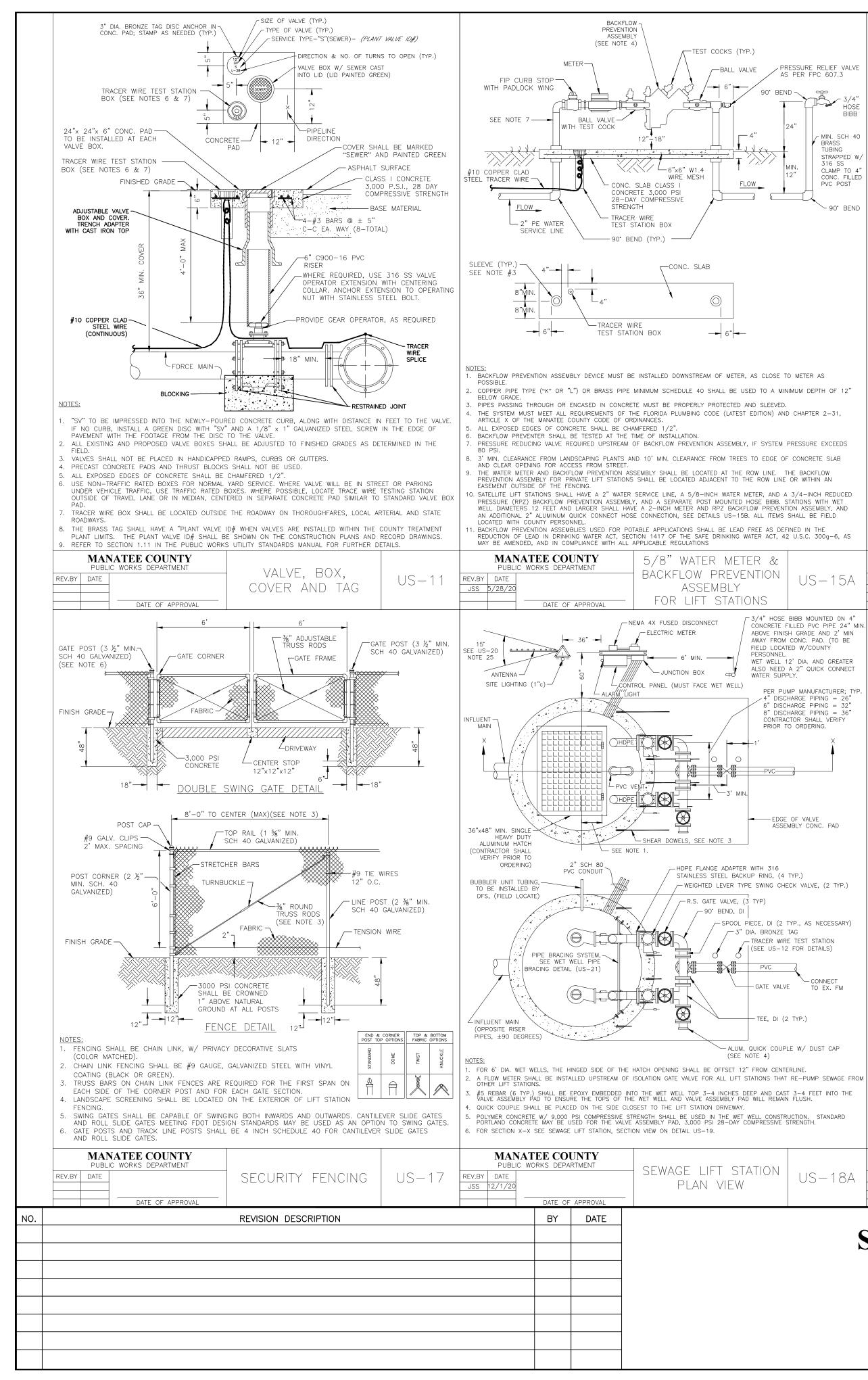


## **RIDGEWOOD 1, RTU 570**

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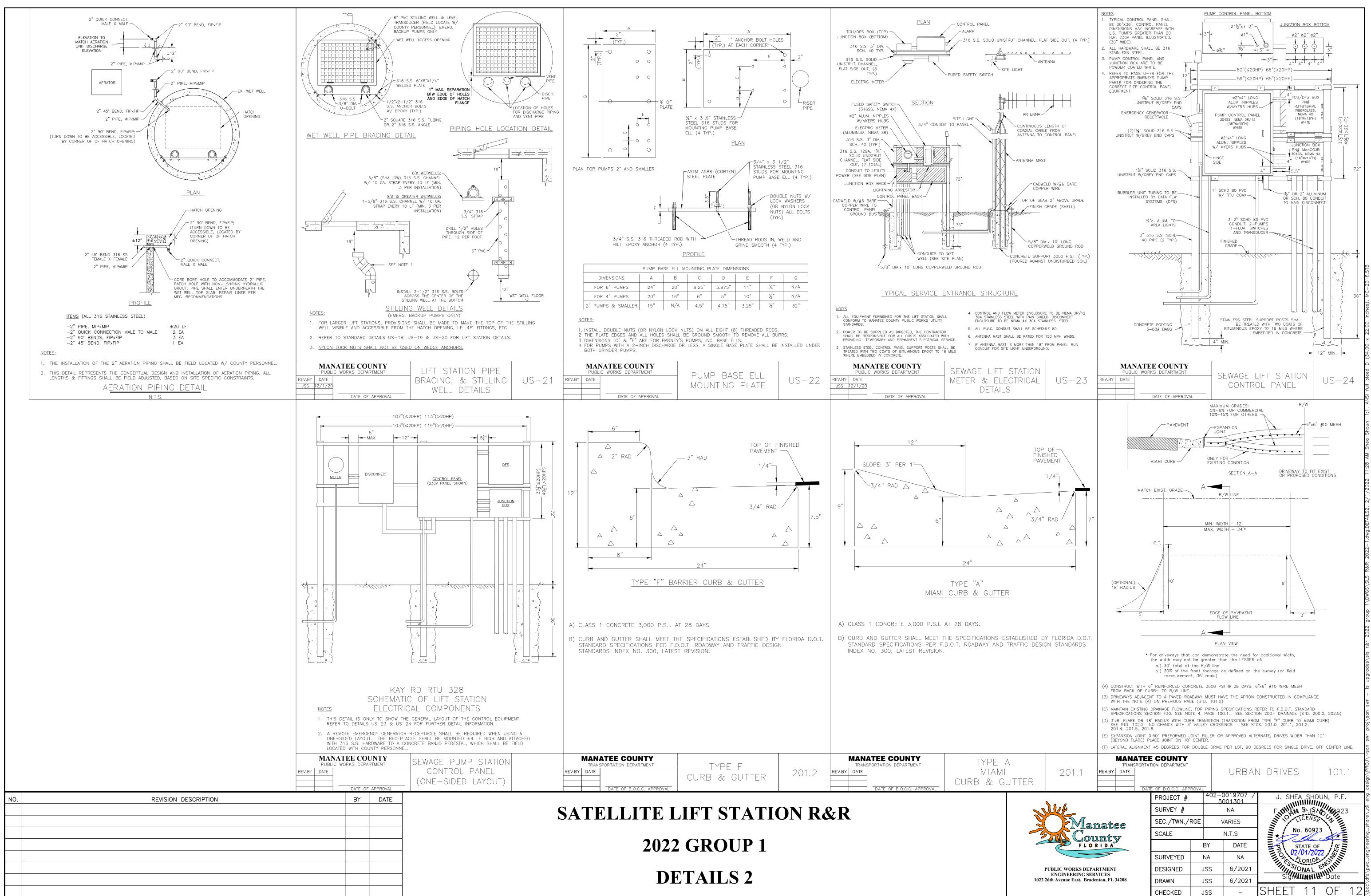
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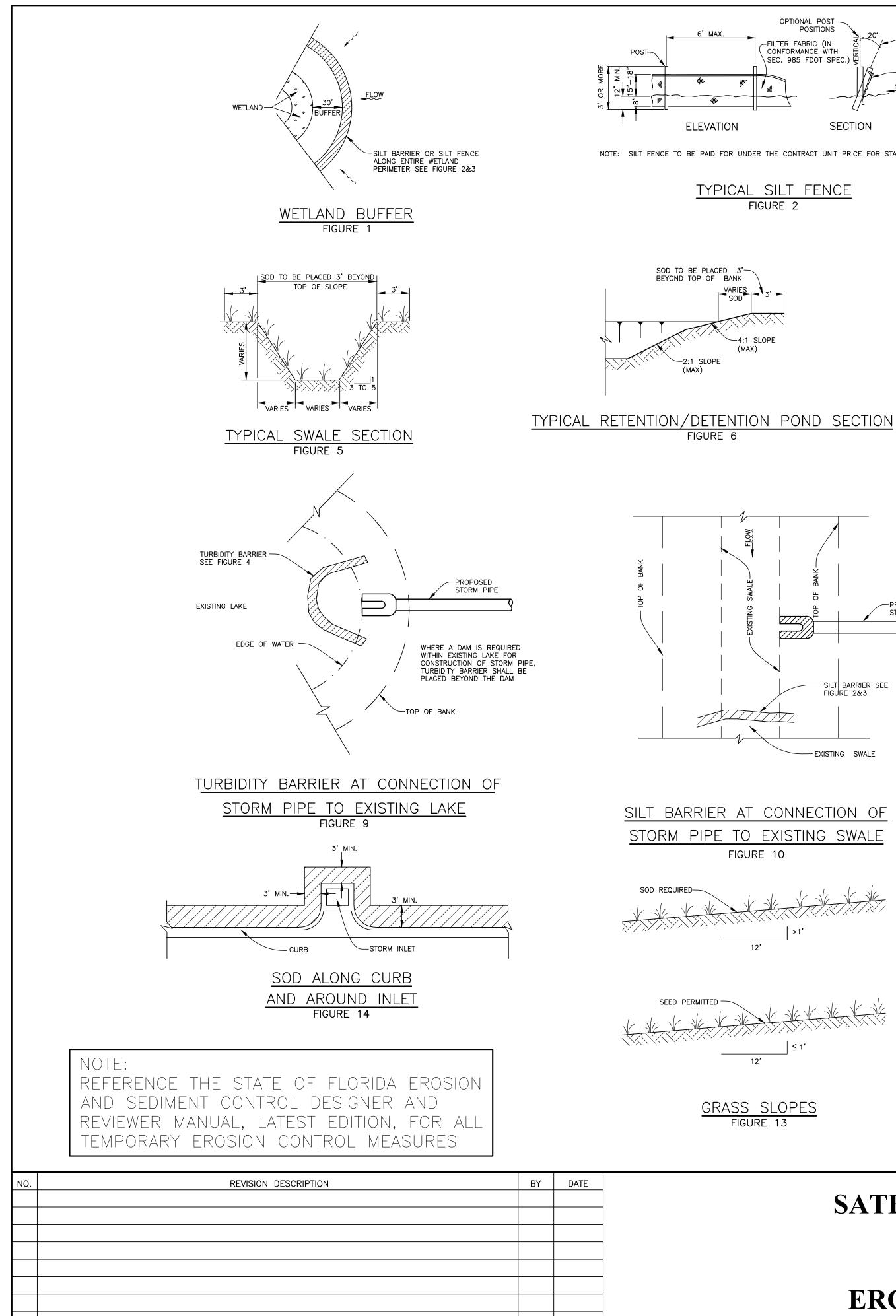


### -P -24" MAX, FROM PROP. LINE FO SERVICES. 5' MIN. FROM SAN. FOR RECLAIMED WATER SERVICE ROW $\odot$ $| \bigcirc$ PRESSURE RELIEF VALVE AS PER FPC 607.3 -TRACER WIRE WITH WIRE NUT 0 0° BEND (CONTINUOUS) Í∰ 🛋 — CURB STOP BIBB (SEE SPEC'S) - MIN. SCH 4 !†12" MIN 1" MINIMUM -BRASS TUBING ) CLEAR BE MIN. FLOW PR (TYP.) Ч - 2-4 BRANCH Y-CONNECTION STRAPPED W 316 SS MIN. MINIMUM SIZE BASED ON CLAMP TO 4' CONC. FILLEE PVC POST ם AN HALL BAC' NUMBER OF SERVICES -BRONZE SERVICE SADDLE WITH FLOW STAINLESS STEEL OR BRASS S ה ה CORPORATION STOP PACK! - WATER OR RECLAII ~ 90° BEND WATER MAIN TRACER WIRE ₽₩IJ₽ SPLICE <u>Plan</u> INTO BY EEL. RC SMAL SMAL INEC VARIES STE .... W/ COC SIDEWALK — -FINISHED GRADE Nor $\times$ 22 STAIL MOV ON CON TRACER WIRE SPLICE BRONZE SERVICE SADDLE WITH EXTRA WIDE STAINLESS STEEL OR BRASS STRAP CURB STO ANY ANY ANY ANY ANY ANY CAN ER( OW BE BE \_\_\_\_1" CORPORATION STOP (SEE NOTE 6) - TRACER WIRE (CONTINUOUS) ASTM 2241, SDR 21 2" MIN. PVC OR HDPE (BLUE OR PURPLE) SERVICE CASING REQ. AT ALL ROADWAY CROSSINGS; EXTEND MIN. 1' PAST BOC AND BE WITHIN 2' OF CURB STOP ┶╼╼╼╼╼╼╼╼╼ - WATER MAIN <u>SECTION</u> OR RECLAIMED WATER ► MIN. Г 🗕 2 FT い <u>NOTES:</u> -COL TAB ALL SERVICE TAPS TO BE LOCATED IN THE FIELD. TAPS SHALL BE NO CLOSER AND USE 2'-0" FROM BELL OR SPIGOT ENDS. G D METER BOXES & RESETTERS ARE TO BE INSTALLED BY THE INFRASTRUCTURE CO DRAINAGE SWALES, SIDEWALKS OR DRIVEWAYS. WITH PRIOR APPROVAL BY COUNT 000 ACT S ABO BE LOCATED IN SIDEWALKS. "WM" OR "RWM" TO BE IMPRESSED INTO THE NEWLY POURED CONCRETE CURB S P N ວ≥ METER, IF NO CURB, INSTALL AN ALUMINUM BLUE DISC WITH "WM" OR ALUMINU GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT WITH THE DISTANCE (IN COLOR CODED TRACER WIRE SHALL BE INSTALLED WITH WATER AND RECLAIMED M SHALL BE CONNECTED TO THE TRACER WIRE ALONG THE MAIN. ON DOUBLE SERV APART, TWO TRACER WIRES SHALL BE INSTALLED; ONE FOR EACH METER. ЧX . WATER AND RECLAIMED WATER SERVICE LINES TO BE 5' MINIMUM FROM SEWER °, $[\delta]$ 6. FOR 2" SERVICES REPLACE CORPORATION STOP WITH 2" RESILIENT WEDGE FIP GA WHEN THE DISTANCE BETWEEN THE EDGE OF THE SIDEWALK AND THE ROW IS OF 10-FOOT-WIDE PUBLIC UTILITY EASEMENT SHALL BE LOCATED IN THE FRONT OF 솔훕응분루양빛음꺋ᇬ로분방홂비용. TEMPORARY RESIDENTIAL USE CAN BE PROVIDED BY CONTACTING THE UTILITY CUS ခြင်္ကက်နံ ဖ်ဖ် င်ထံတ်ဝိုင်း 9. SERVICE TUBING SHALL NOT BE CRIMPED OR KINKED TO RE-ADJUST CURB STOP **MANATEE COUNTY** 2" WATER METER MANATEE COUNTY US-15B PUBLIC WORKS DEPARTMENT PUBLIC WORKS DEPARTMEN AND BACKFLOW TYPICAL S US-15A REV.BY DATE REV. BY DATE (NEW) CONNEC PREVENTION ASSEMBL FOR LIFT STATIONS DATE OF APPROVAL DATE OF APPROVAL \_ 3/4" HOSE BIBB MOUNTED ON 4" CONCRETE FILLED PVC PIPE 24" MIN - EDGE OF CONCRETE VALVE PAD. - TYPICAL DUPLEX ABOVE-GROUND ELONGATED TO ACCOMMODATE ABOVE FINISH GRADE AND 2' MIN CONFIGURATION WITH PUMP OUT. METER REQUIREMENTS SHOP FUSED, (2 TYP) AWAY FROM CONC. PAD. (TO BE FIELD LOCATED W/COUNTY 4" SCHD 80 PVC VENT (316 SS TEE ROTATED SIDEWAYS PERSONNEL SCREEN) ON HINGED SIDE OF HATCH WET WELL 12' DIA. AND GREATER -FORCE MAIN ALUMINUM HATCH COVER -ALSO NEED A 2" QUICK CONNECT WATER SUPPLY. NOTE MAX INFLUEN ∕— GATE\_VALVE --(LOCATION VARIES) PER PUMP MANUFACTURER; TY 4" DISCHARGE PIPING = 26" Ók į⊂D**IØ**÷į $\square \otimes$ #4 @ 10" O.C. EACH —\_\_\_\_ DISCHARGE PIPING = 32" WAY W/2" MIN. COVER, 8" DISCHARGE PIPING = 36" TOP AND BOTTOM. CONTRACTOR SHALL VERIFY PRIOR TO ORDERING. - WHEELED GATE VALVE, (3 TYP) SLOPE TO - TITY . 45° BEND — EXISTIN 0.4.6 GRADE - 90° BEND (UPPER) POINTED DOWNWARD FLOW METER-─ 90° BEND (LOWER); ROTATED EARTH GROUND IN 1" CONDUIT 4 PUMP POWER CORDS 316 STAINLESS μ LIFT STATION CONTROL EQUIPMENT STEEL LIFT CHAIN ON ELECTRICAL RACK (TYP) TONGUE AND GROOVE PVC CABLE TO METER HEAD UNIT JOINT W/"O"-RING GASKET PER ASTM C-443. - BUBBLER UNIT INSTALLED BY I - EDGE OF VALVE PUMP LIFTING GU 4" MIN. -----SPOOL PIECE, DI (2 TYP)-ASSEMBLY CONC. PAD COMPOSED OF SI - FLOW METER 45° BEND — -HDPE DR-11 45° BEND — - WHEELED GATE VALVE (3 TYP) RESILIENT CAST-IN--316 S.S. PIPE SEAL PER ASTM C-923 90° BEND-(2 MIN). TOP BRACE TO BE <u>MIN.</u> (EL.= (B) BRACES. (SEE FORCE MAIN -/- WEIGHTED LEVER TYPE SWING CHECK VALVE, (2 TYP.) 9.000 PSI PRE EL.= (C) ADJ. FLANGED VALVE WET WELL, BA EL.= (D) SUPPORTS, (2 TYP.) REINFORCEMEN <u>EL.= (E)</u> - HDPF F EL.=(F)- SPOOL PIECE, DI (2 TYP., AS NECESSARY) RING, S REDUCER /- 3" DIA. BRONZE TAG - TRACER WIRE TEST STATION ✓ |(SEE US−12 FOR DETAILS) 90° BEND — SEE NOTE 2 GATE VALVE TO EX. FM #5 @ 10" O.C. EACH WAY-12"\_\_\_ MIN. W/2" MIN. COVER NOTES: 12" MIN. #57 STONE PLACED – ON SOIL COMPACTED TO 98% DENSITY, AASHTO T-180 THIS DETAIL ILLUSTRATES A TYPICAL INSTALLATION CONFIGURATION OF THE ABOVE-GROUND FLOW METER WITH BYPASS. SLIGHT MODIFICATION MAY BE REQUIRED FOR OTHER CONFIGURATIONS, PLEASE CONSULT WITH COUNTY LIFT STATION PERSONNEL. G -TEE, DI (2 TYP.) - BPIU PUMP BASE ELLS 2" GROUT MIN. (IF REQUIRED) REFER TO THE SEWAGE LIFT STATION PLAN (US-18) AND/OR SECTION VIEW (US-19) DETAILS FOR LIFT STATION INSTALLATION, MATERIALS, AND DIMENSIONING REQUIREMENTS. — 3/4" 316 SS THREADE -- ALUM. QUICK COUPLE W/ DUST CAP (4 TYP.) RODS SHALL NOT BE IN CONTACT W SECTION X - X(SEE NOTE 4) UNDERGROUND PIPING AND FITTINGS SHALL BE FULLY RESTRAINED USING RESTRAINED MJ FITTINGS. ABOVE-GROUND PIPE AND FITTINGS SHALL BE FLANGED CONNECTIONS. NOTES: I. 6" MINIMUM VERTICAL SPACING BETWEEN ALL PUMP AND ALARM CONTROL LEVEL A SPOOL PIECE, ONE PIPE DIAMETER IN LENGTH, SHALL BE PLACED UPSTREAM AND DOWNSTREAM OF THE METER. 2. POLYMER CONCRETE FILLET ALL AROUND WET WELL: 6-FT DIA.=12"H $\times$ 6"W; 8-METER HEAD SHALL BE INSTALLED ON THE ELECTRICAL RACK. FIELD LOCATE THE METER HEAD WITH COUNTY PERSONNEL. USE 1" CONDUIT. 3. THE VALVE CONCRETE PAD SHALL BE GIVEN A BROOM FINISH. THE SURFACE UNDER A TEN FOOT (10') STRAIGHT EDGE, NOT MORE THAN 1/8" ON A FIVE FO METER SHALL BE PROPERLY GROUNDED PER MANUFACTURER'S RECOMMENDATIONS. OF THE CONCRETE PAD SHALL BE CAREFULLY FINISHED WITH A EDGING TOOL H . EXPANSION JOINT: EXPANSION JOINTS BETWEEN THE CONC. PAD AND THE WET MEET THE REQUIREMENTS OF AASHTO M153 OR AASHTO M213. THERE SHALL BE AN EARTH-GROUND ADJACENT TO SLAB; USE 1" CONDUIT. . THIS DETAIL SHALL APPLY TO LIFT STATIONS WITH 4" OR GREATER FORCE MAINS BYPASS PUMPING SHALL BE OPPOSITE THE PUMP OUT. THAN 4" REFER TO DETAIL US-27A. MANATEE COUNTY PUBLIC WORKS DEPARTMENT MANATEE COUNTY ABOVE GROUND FLOW PUBLIC WORKS DEPARTMEN US-18B SEWAGE LIFT US-18A REV.BY DATE METER DETAIL WITH REV.BY DATE (NEW) SECTION JSS 12/1/20 METER BYPASS DATE OF APPROV DATE OF APPROVA **SATELLITE LIFT STATION R&R**

### 2022 GROUP 1 DETAILS 1

R WATER							
SEWER AND S. <u>NOTE:</u> IE THE MAIN IS NO		IT					
IF THE MAIN IS NO THE SERVICE PIPE POLYETHYLENE MEE WHEN THE MAIN IS	SHALL BE ETING AWWA C-901	I.					
THE SERVICE PIPE OR K") COPPER, O SCHEDULE 40 PIPE	SHALL BE TYPE ( DR STAINLESS STEE	"L [L					
SHALL BE BLUE FO FOR RECLAIMED WA BE COLOR CODED.	OR WATER OR PUR	PLE					
						UNDERSTORY TH OR PALM (TYF	
EXTRA WIDE						SHRUBS	
IRAP MED		F	SECURITY	- 30, WIN			
WLU		30'R	DOUBLE 2' 12'		-30'R		2' ∰ - <sub>2</sub>
	ROW	12			2	FENCE (TYP.)	
		7-10"	25'MIN.	7'R-	18'R	25' MIN.	
	⊢	EDGE OF	PAVEMENT (TYP.)	RIGHT OF WAY (TYP.)		PAV	GE OF
			OROUGHFARE	DRIVEWA	<u>YS</u>	(IN NON-THORO	<u>UGHFARE</u>
METER RESETTER &	вох 7		N.1.3			<u>DRIVEV</u> n.t.s	<u>/AY</u>
(A) 1" FOR SINGL SERVICES IN	2" CASING, LIMITE	D TO					
(B) 2 <sup>°</sup> FOR TRIPL SERVICES IN	MALLER METERS. LE AND QUADRUPL 3" CASING, AND F	OR					
LARGER METE							
ENGTH CUT AS NEED! O ADJUST LENGTH IS MIN							
HAN 2'-0" STAGGERE		NOTES:					
NTRACTOR AND SHALL , METER BOXES WITH	LOCKABLE LIDS N	MAY THE FENC	/ SETBACK OF 5 FT SHALL E. SHALL EXTEND UP TO OR B			,	,
LONG WITH DISTANCE I PURPLE DISC WITH EET) FROM THE DISC	"RWM" AND A 1/8 TO THE METER.	3. LIFT STATI FENCE.	ON EASEMENT SHALL EXTEND	) a minimum of	F 15 FT BEYOND A	LL FOUR SIDES OF THE LIF	
MAIN AND ALL SERVICE VICES, WHEN SECOND	LS. SERVICE WIRE METER IS OVER 8	5. A MINIMUM FENCE.	I SETBACK OF 5 FT SHALL	BE PROVIDED B	ETWEEN THE SHRU	B'S BASE STEM AND THE L	
SERVICE PIPES. ATE VALVE W/BOX, LII		SECURITY 7. SPECIFIC	LANDSCAPING REQUIREMENTS				
NE FOOT (CUL-DE-SA THE LOTS, ADJACENT STOMER SERVICE. SE	TO THE ROŴ.	STANDARD	MATERIAL SHALL BE CONCRE S MANUAL FOR THE ENTIRE	LENGTH OF THE	DRIVEWAY.		IIGHWAY & TRAFFIC
LOCATION.			WILL BE INSTALLED AT GRAD				
ERVICE	$\cup W - 2$	PUBL	IC WORKS DEPARTMENT			CESS/EGRESS NDSCAPING	US-16
TION			-			MENTS FOR Stations	05 10
-HDPE FLANGE ADAPT				I			
BACKUP RING, SHOP ADJUSTABLE 316 S.S. SUPPORTS, (2 TYP.)		ALUMINUM SU COVERS SHAL	COVERS SHALL BE ALUMINUM IRFACES IN CONTACT WITH CO L BE EQUIPPED WITH A LOCH PANELS OF PUBLICLY OWNE	ÓNCRETE SHALL KING STAPLE OR	HAVE 2 COATS BIT BAR FOR USE WIT	JMASTIC EPOXY, TOTAL 16 N H A PADLOCK. PADLOCKS FO	MILS DFT. ALL ACCESS OR WETWELL, FENCE GATI
/ POLYETH	UCTILE IRON PIPE IYLENE WHERE BUF	WITH UTILITIES DEP RIED 2. INSTALL WET	ARTMENT, UPON ACCEPTANCE. WELL VENT ON THE HINGED	•			
GA	ENCASED IN CON ATE VALVE	PROVIDED AR	LL BE SLOPED AWAY FROM S OUND THE STRUCTURES. SITE LIFT STATION FENCING; SITE	SHALL INCLUDE	A WEED BARRIER	FABRIC THAT IS COVERED W	ITH WASHED SHELL OR TH SHREDDED WOOD TYP
	5" THICK CONC. PA CLASS 1, 3,000 PS @ 28 DAYS ON COMPACTED SOIL	SI WOOD-TYPE SHREDDED W	R THE SHRUBS AND UP TO ( MULCH SHALL BE LOCATED U DOD-TYPE MULCH SHALL BE	NDER THE TREE	S FOR A MINIMUM THE REMAINDER OF	DISTANCE OF 3 FEET FROM THE SITE TO THE EDGE OF	THE TREE. SODDING OR THE EASEMENT.
	SLOPE AWA	TO GROUND VALV	IAIN PIPING AND FITTINGS FRO /E ASSEMBLY, SHALL BE DR1 GE FITTINGS IN THE WETWELL	1 HDPE. THE HI (PUMP BASE E	DPE FITTINGS SHALL _LS) AND TO THE (	. BE MOLDED FITTINGS. ALL CHECK VALVES SHALL BE MA	CONNECTIONS TO IRON DE USING HDPE FLANGE
	EXISTING G	DOWNSTREAM	TH 316 STAINLESS STEEL BAO OF THE VALVE ASSEMBLY TO ELOW GROUND SHALL BE CO	THE FIRST BUR	RIED FITTING SHALL	BE DUCTILE IRON PIPE (CL-	–53), THEN PVC (DR18).
RED. & FOSTER (IF REQ'D); 90°		6. ANCHORS &	AIMED: BLUE—POTABLE WATEF LIFTING DEVICES SHALL NOT CTIONS, AND BASE SHALL BE	PENETRATE THE			
	CONNECT TO EX. FM	POLYMER COM 8. ALL ABOVE-G	NORS, AND DASL SHALL DE NCRETE SANITARY SEWER MAN ROUND METAL APPURTENANCI EEL BOLTS SHALL BE TREATE	IHOLE FOR TURE ES INCLUDING B	BULENT FLOW DETAI OLTS, NUTS AND W	 ASHERS SHALL BE 316 STAI	NLESS STEEL. ALL
UBING; FLUSH TO WA ATA FLOW SYSTEMS (I		REQUIRE FLA 9. VERTICAL HDF	T 316 STAINLESS STEEL WASH PE PUMP DISCHARGE PIPE IN	HERS ON BOTH THE WET WELL	SIDES TO PROTECT SHALL BE BRACED	COATINGS. PER DETAIL US-21. THE P	IPE SHALL BE CLAMPED
DERAILS TO FIT PUMP GLE LENGTH (WELDED		S.S) PLATES WELD	LENGTH OF 2" 316 SS TUBI ED TO EACH END AND ATTACI 3/8" DIA. U–BOLTS.				
PE, (2 TYP.) RACE EVERY 8' OF V	/ERT. PIPE BRACING	11. TOP OF WET	SHALL TAKE ALL NECESSARY WELL AND VALVE ASSEMBLY	SLAB SHALL BE	AT THE SAME ELEV	/ATION.	
RACE TO BE 4' FRON FROM BASE ELL; 8' DETAIL US-21)		WITH A LEAST ABOVE GROUT	R SURFACES OF THE CONCRE TWO COATS OF H&C SILICO ND VALVE ASSEMBLY & PIPIN TO AVOID OVER-SPRAY ONTO	NE ACRYLIC COI G SHALL BE PA	NCRETE STAIN, PATH NTED, RUSTOLEUM	D GREEN, MANUFACTURED B` 7538 HUNTER GREEN. CONT	Y FLR PAINTS, INC.
CAST POLYMER CONCI E, SECTIONS, AND TO		13. SATELLITE LIF PRESSURE (R	T STATIONS SHALL HAVE A 2' PZ) BACKFLOW PREVENTION /	" WATER SERVIC ASSEMBLY, AND	E LINE, A 5/8–INC A SEPARATE POST	H WATER METER, AND A 3/4 MOUNTED HOSE BIBB. STATH	ONS WITH WET WELL
SHALL COMPLY WITH		2" ALUMINUM PERSONNEL.	2 FEET AND LARGER SHALL H QUICK CONNECT HOSE CONI	NECTION, SEE D	ETAIL US-15B. AL	L ITEMS SHALL BE FIELD LO	CATED WITH COUNTY
DP FUSED (2 TYP.); I WHEN NECESSARY.		15. HOSE BIB TO	SHALL BE IRRIGATED WITH N BE A MINIMUM OF 6 FEET F ED TO A 4" PVC CONCRETE I	ROM THE ELEC	RICAL CONTROL PA	NEL, 24" ABOVE THE SURRO	UNDING FINISH GRADE,
R DESCRIPTION RIM ELEVATION	ELEVATION COM	MENTS 16. WATER METER DEVELOPER.	ASSEMBLY TO BE INSTALLED	) BY CONTRACTO	R AS PART OF WA		,
INFL. INVERT HIGH WATER WATER LAG PUMP 2 ON		18. EVERY EFFOR	RST WALL SECTION OF WET W T SHALL BE MADE BY THE CO STRUCTURES THAT ARE NOT W	ONTRACTOR TO	CONSTRUCT WATERT		
LEAD PUMP 1 ON LOW WATER LEVEL		REJECTED.	KET CONNECTORS SHALL MEE	, et the require	MENTS OF ASTM C-	-923 LATEST REVISION.	
(ALL PUMPS OFF) BOTTOM ELEVATION	32 MAX.	FOOT 21. ELECTRICAL S	LVES SHALL BE RESILIENT SEA ERVICE SHALL BE 3 PHASE N CE IS UNAVAILABLE.				
& PUMP BASE MOUN	OXY ANCHOR	YP.) 22. ELECTRICAL C AND FROM TH	ONDUIT SHALL BE RUN BY THE CONTROL PANEL TO THE L	LIFT STATION WE	T WELL.		
BE ACCURATELY POSIT TH REINFORCING BAR		CRITERIA LIST 24. THE CONTROL	ED IN SECTION 1.14.14 OF T PANEL, HOSE BIB, EMERGEN	HE PUBLIC WOR	KS UTILITY STANDAI NERATOR, FUEL STO	RDS MANUAL. DRAGE TANK AND ANTENNA S	HALL NOT BE LOCATED
S. FT DIA. & GREATER=	=18"H × 12"W.	EDGE OF THE 25. THE ANTENNA	WET WELL, VALVE ASSEMBLY LIFT STATION EASEMENT AT FOR THE RADIO TELEMETRY	THE ROW LINE. UNIT REQUIRES	DIRECT LINE-OF-S	IGHT SIGNALING CAPABILITY	TO THE UTILITIES
ARIATIONS SHALL BE DOT (5') TRANSVERSE AVING A RADIUS OF 1	NOT MORE THAT '	I/4" DEGREES FRO DGE PLANTED WITH	S OFFICE THAT WILL RECEIVE OM THE ANTENNA MAST (7.5 I HIN THE DESIGNATED UNOBSTR	DEGREES ON BO RUCTED ANGLE I	TH SIDES OF THE FOR A TWENTY (20)	DIRECT LINE-OF-SIGHT AZIM FEET HORIZONTAL DISTANCE	UTH). NO TREE SHALL B E MEASURED FROM THE
VING A RADIUS OF 1 /ELL SHALL BE 1/2"	·		CAPE BUFFER PLANTINGS ARE NTENNA. THE ANTENNA TOWER				OF THE CONSTRUCTED
. LIFT STATIONS WIT	TH FORCE MAINS L			I			
STATION		PUBL	NATEE COUNTY LIC WORKS DEPARTMENT				
VIEW	US-1	9 REV.BY DATE	-		IFT STAT	ION NOTES	US-20
					0019707 /		
	1806		PROJECT # SURVEY #		NA	J. SHEA SH	115.
📎	En A		SURVEY #	RGE	VARIES	FLORNDASP.E	H160923
		lanatee	SCALE		N.T.S	No. 609 PRO STATE 02/01/2 CORI	
	F			BY	DATE	STATE	- Shine
			SURVEYED	NA	NA	P 02/01/2	
	PUBLIC WORKS ENGINEERING	G SERVICES	DESIGNED	JSS	6/2021		
1022 2	20th Avenue East,	Bradenton, FL 34208	DRAWN	JSS	6/2021		OF 12
1			CHECKED	JSS	-	JHEEL I	J UF IZ





### - FILTER FABRIC FLOW SILT FLOW BALES TO BUTT SECTION PLAN NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF). LOOSE SOIL PLACED BY SHOVEL 2"x2" STAKE-& LIGHTLY COMPACTED ALONG UPSTREAM EDGE OF BALES -FILL SLOPE TYPICAL SILT FENCE FIGURE 2 TYPICAL BALE SILT BARRIER FIGURE 3 SYNTHETIC BALES --PROPOSED INLET PROPOSED INLET -ANCHOR BALES WITH 2-2"x2"x4' . . . . . . . STAKES PER BALE-- SIDEWALK-DITCH DITCH 1 SLOPE CURB & GUTTER -CURB & GUTTER TEMP.-- ROCK BAGS - ROCK BAGS COMPLETED INLET DITCH BOTTOM INLET PARTIAL INLET SYNTHETIC BALE PROTECTION AROUND INLETS OR SIMILAR STRUCTURES FIGURE 7 - TOP OF BANK -PROPOSED STORM PIPE PROPOSED SWALE -SILT BARRIER SEE FIGURE 2&3 - SILT BARRIER SEE - EXISTING SWALE FIGURE 2&3 SILT BARRIER AT CONNECTION OF - EXISTING SWALE STORM PIPE TO EXISTING SWALE SILT BARRIER AT CONNECTION FIGURE 10 OF SWALE TO EXISTING SWALE FIGURE 11 -SHOULDER LINE (FINAL GRADE) STUB PIPE AND ELBOW OR -CONDUIT TO BE RELOCATED AS -SLOPE VARIES FILL PROGRESSES -ANCHOR FOR CORRUGATED PIPE AS DIRECTED BY THE ENGINEER INTERMEDIATE SUMP AND DRAIN TO BE CONSTRUCTED AS FILL PROGRESSES AS DIRECTED BY THE ENGINEER. EARTH BERM BAG HEIGHT SUFFICIENT TO CONTAIN PIPE DISCHARGE AT DITCH LOCATIONS MAY BE USED IN LIEU OF SANDBAGGING SAND BAG CUT-OFF WALL OR IMPERVIOUS CURTAIN (TO BE REMOVED WITH STUB AND ELBOW OR CONDUIT RELOCATION - APRON CONTOURED TO NATURAL GROUND IN ABSENCE OF DITCH SECTION AA TEMPORARY SLOPE DRAIN **GRASS SLOPES** FIGURE 13 FIGURE 15 **SATELLITE LIFT STATION R&R 2022 GROUP 1**

-ANCHOR BALES WITH

2-2"x2"x4' STAKES

PER BALE

OPTIONAL POST

-FILTER FABRIC (IN

CONFORMANCE WITH

SEC. 985 FDOT SPEC.)

POSITIONS

- PRINCIPAL POST

POSITION (CANTED

20° TOWARD FLOW)

## **EROSION CONTROL DETAILS**

