<u>PROJECT TEAM:</u>

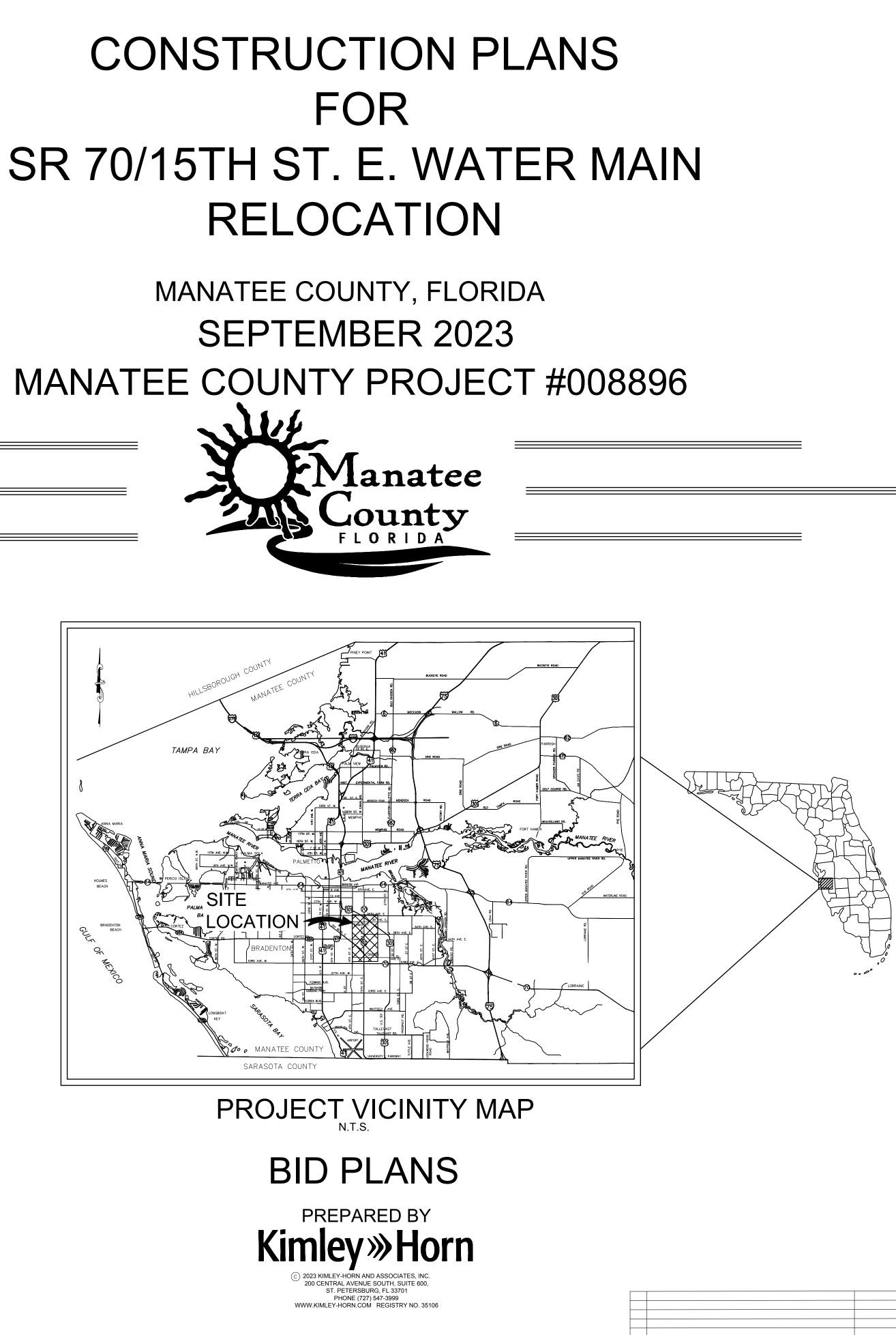
<u>OWNER:</u> MANATEE COUNTY 1022 26TH AVE. E BRADENTON, FL 34208 CONTACT: STEVE KERR 941-708-7450 ext. 7418 ENGINEER: KIMLEY-HORN AND ASSOCIATES, INC. 200 CENTRAL AVE, SUITE 600 ST PETERSBURG, FL 33701 CONTACT: JORDAN W. WALKER, P.E. 727-308-4320

> JORDAN W. WALKER, PROFESSIONAL ENGINEER, STATE OF FLORIDA, LICENSE NO. 78652

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JORDAN W. WALKER, P.E.

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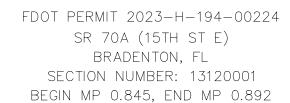
KIMLEY-HORN AND ASSOCIATES, INC. 200 CENTRAL AVENUE SUITE 600 ST PETERSBURG, FL 33701 REGISTRY 35106 JORDAN W. WALKER, P.E. NO. 78652



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		KIMLEY-HORN AND ASSOCIATES, INC. CONSENT IS HEREBY GRANTED SPECIFICALLY TO GOVERNMENTAL	FLORIDA LICENSE NUMBER:	04
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REVISIONS

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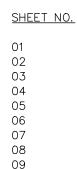


COVER SHEET GENERAL NOTES GENERAL NOTES KEY SHEET PLAN AND PROFILE UTILITY ADJUSTMENTS UTILITY ADJUSTMENTS DETAILS

SHEET DESCRIPTION

DETAILS

SHEET INDEX



୍ର <u>GENERAL</u> ଥି 1. ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION.	AREA. RIGHT-OF-WAY
THE PROJECT MANAGER IS: STEVE KERR AND CAN BE REACHED AT (941) 708–7450 X7418 2. IF THE CONTRACTOR WANTS A SITE VISIT PRIOR TO BIDDING, THESE SHALL BE ARRANGED THROUGH THE COUNTY'S	32. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE FDOT RIGHT-OF-WAY.
F PURCHASING DIVISION. 문 3. ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANATEE COUNTY	33. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA T RESTORE PROPERTY CORNER MONUMENTS, PINS, AND LANDMARKS THAT MAY BE DISTURBED B' ADDITIONAL COST TO THE OWNER.
UTILITY AND TRANSPORTATION STANDARDS AND/OR FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" UNLESS OTHERWISE INDICATED ON THE PLANS.	34. THE CONTRACTOR, PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN AN RIGHTS-OF-WAY USE PERMITS AND A TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL OB PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTEN
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.	OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT OF TRANSPORTATION "MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES". A TRAFFIC CONTR SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.
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 TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR	35. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED STORM WATER STRUC ENTRANCE PIPE AND HEADWALLS WHETHER SHOWN ON THE PLANS OR NOT. THE HEADWALLS S ACCORDANCE WITH F.D.O.T. STANDARDS.
BIDS WILL BE BASED. Image: State of the contractor shall review and verify all dimensions on the plans and review all field conditions Image: State of the contractor shall review and verify all dimensions on the plans and review all field conditions Image: State of the contractor shall review and verify all dimensions on the plans and review all field conditions Image: State of the contractor shall review and verify all dimensions on the plans and review all field conditions Image: State of the contractor shall notify the engineer to	36. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH IN THE FIELD THE RIGHT-OF-W/ BENCH MARKS (ELEV.), CENTER LINES, AND STATIONING AS REQUIRED TO CONSTRUCT THIS PRO
OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH CONSTRUCTION.	37. THE CONTRACTOR SHALL COORDINATE THE CUTTING OF DRIVEWAYS WITH THE PROPERTY OWNEF DRIVEWAYS WILL BE IN PASSABLE CONDITION AT THE END OF THE WORK DAY AND FULLY REST 02575.
OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITIES FOR THE POSSIBLE RELOCATION OR THE TEMPORARY MOVEMENT OF ANY EXISTING UTILITIES WITHIN THE RIGHTS-OF-WAY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING UTILITIES FROM DAMAGE. EXPLORATORY EXCAVATION MAY BE REQUIRED PRIOR TO CONNECTION TO EXISTING UTILITIES.	38. A RIGHT OF ENTRY AGREEMENT SHALL BE OBTAINED BY THE CONSTRUCTION MANAGER FROM T BEFORE ANY DRIVEWAY CONSTRUCTION WORK IS DONE OUTSIDE OF THE RIGHT-OF-WAY OR EA UTILITIES
8. NO WORK, EXCEPT FOR EMERGENCY TYPE, SHALL BE PERFORMED AFTER 7:00 PM AND BEFORE 7:00 AM ON WEEKDAYS. NO WORK SHALL BE PERFORMED ON WEEKENDS WITHOUT COUNTY WRITTEN APPROVAL. FOR ADDITIONAL PROJECT RESTRAINTS, REFER TO SECTION 01310 OF THE SPECIFICATIONS.	39. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEA THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO N ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITH AND WHICH HAVE NOT BEEN LOCATED OR IDENTIFIED, MAY NOT BE IN THE EXACT LOCATION SH
9. THE CONTRACTOR SHALL PROVIDE CERTIFIED RECORD DRAWINGS AS OUTLINED IN THE SPECIFICATIONS. RED-LINE DRAWINGS SHALL BE CURRENT WITH EACH PAY APPLICATION SUBMITTED AND WILL BE CHECKED AS PART OF THE PAY APPLICATION REVIEW PROCESS. PAYMENT WILL NOT BE MADE TO CONTRACTOR WITHOUT APPROVED RED-LINE DRAWINGS. THE MOST CURRENT SET OF RED-LINE DRAWINGS SHALL ALSO BE BROUGHT TO EACH MONTHLY PROGRESS MEETING.	SINCE THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTI LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES STRUCTURES AND OTHER OR NOT SHOWN ON THE PLANS. THAT MAY EFFECT HIS WORK ALL EXISTING UTILITIES TO BE
10. THE CONTRACTOR SHALL INCLUDE IN HIS BID: BY-PASS PUMPING FACILITIES, PUMPS, FITTINGS, LABOR, ETC. AS NECESSARY, BASED ON METHOD AND SEQUENCE OF CONSTRUCTION TO COMPLETE ALL WORK WHILE MAINTAINING WATER SERVICE OPERATIONS AT ALL TIMES.	40. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STOR DRIVEWAYS, SIDEWALKS, SIGNS, MAIL BOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER I FACILITY IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY
11. THE CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER WITH A DETAILED CONSTRUCTION PHASING PLAN. EXISTING WATER MAINS SHALL REMAIN IN SERVICE UNTIL ALL CONNECTIONS TO THE PROPOSED WATER MAIN ARE CONSTRUCTED.	TO HIS CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER THAN PRE-CONSTRUCTION CONDITIONS COST TO THE OWNER. 41. THE CONTRACTOR SHALL USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED OR OF
12. ALL PROPOSED WORK SHALL BE COORDINATED WITH MANATEE COUNTY UTILITIES DEPARTMENT AT LEAST TWO WEEKS IN ADVANCE OF PROPOSED CONSTRUCTION.	POWER AND LIGHT TO PREVENT UNDERMINING OF POWER POLES DURING CONSTRUCTION. IF HOL IS RECOMMENDED OR REQUIRED BY THE UTILITY, THE CONTRACTOR SHALL COORDINATE THIS AC UTILITY AND BEAR ALL RELATED COSTS.
 13. THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS TO THE ENGINEER FOR REVIEW OF ALL PIPE CONNECTIONS, TRANSITIONS, AND SPECIAL APPURTENANCES PRIOR TO FABRICATION OR DELIVERY TO THE JOB SITE. 14. WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 12" BETWEEN THE INVERT OF THE 	42. ANY TEMPORARY SHUTDOWNS FOR MODIFICATIONS OF EXISTING UTILITY SYSTEMS THAT MUST RI DURING CONSTRUCTIONS SHALL BE KEPT TO A MINIMUM AND SHALL BE COORDINATED WITH A MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT IN ACCORDANCE WITH THE CONTRACT DOO THAT TEMPORARY SHUTDOWNS MAY BE RESTRICTED TO CERTAIN HOURS AT ANY TIME OF THE
UPPER PIPE AND THE CROWN OF THE LOWER PIPE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN 10' BETWEEN ANY TWO JOINTS. AS AN ALTERNATIVE, THE WATER MAIN MAY BE PLACED IN A WATERTIGHT CASING PIPE, CONSISTENT WITH F.A.C. RULE 62–555.314.	WILL BE COMPLETED AT NO ADDITIONAL COST TO THE OWNER. 43. THE ELEVATIONS OF THE UTILITY SERVICES AND LATERALS HAVE BEEN ASSUMED ON THE BASIS ANTICIPATED SOIL COVERAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONS
15. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SECURE PROPERTY FOR STAGING MATERIALS AND EQUIPMENT. 16. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ACQUIRE, OR ENTER INTO AGREEMENTS, FOR LANDS FOR LAY DOWN	BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSIN FORCE MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT CONSTRUCTION ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING CONSTRUCTION OF THE PROPOSED. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL
Image: AREAS AND STAGING. THE COUNTY WILL COORDINATE AND ADVISE, TO HELP IDENTIFY POSSIBLE PARCELS. IT ISImage: Gradient Contractor's Responsibility to secure the needed areas, and the county take noImage: Gradient Contractor's Responsibility for Delays in this regard.	EFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOUF
17. COORDINATION AND PUBLIC INFORMATION FOR AND WITH AREA RESIDENTS ARE OF THE UTMOST IMPORTANCE. CONTRACTOR WILL INSURE ADHERENCE TO THE COUNTY'S NOISE ORDINANCE, HAZARD AND SAFETY, AND NUISANCE ABATEMENT DIRECTIONS, PLANS, OBJECTIONS AND ORDINANCES. THE ENGINEER WILL HAVE THE FINAL DISCRETION IN	44. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING UNLESS SHOWN OTHERWISE.
THIS REGARD, AS REPRESENTED ONSITE BY THE COUNTY INSPECTOR AND ENGINEER'S STAFF.	45. ALL DISTURBED GRASSED AREAS SHALL BE SODDED UNLESS OTHERWISE INDICATED. THE TYPE REPLACE OWNER MAINTAINED AREAS IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PRO
SAFETY 18. 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	46. ALL CONCRETE THRUST BLOCKS INSTALLED FOR TESTING PURPOSES AND NOT REQUIRED FOR T PIPELINE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR, PRIOR TO FINAL ACCEP ADDITIONAL COST TO THE OWNER.
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.	47. ALL DRIVEWAYS UNLESS OTHERWISE INDICATED SHALL BE RESTORED PER DRIVEWAY RESTORATION 48. CONCRETE DRIVEWAYS OR SIDEWALKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING
19. THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.	CURRENT EDITIONS OF THE F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN, SECTION 5 OF THE F.D.O.T. DESIGN STANDARDS AND MANATEE COUNTY PUBLIC WORKS STANDARD UNLESS
20. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.	49. WHENEVER A PERMANENT ROADWAY SURFACE IS NOT REPLACED IMMEDIATELY AFTER BACKFILLI OF THE NEWLY INSTALLED PIPE LINE IN AREAS WHERE TRAFFIC MUST PASS, THE CONTRACTOR TEMPORARY SURFACE CONSISTING OF NINE INCHES OF COMPACTED LIME ROCK BASE AND A CO
21. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.	EMULSION. PERMANENT ROADWAY REPAIR SHALL BE PERFORMED A MAXIMUM OF TWENTY-ONE THE INITIAL OPEN CUTTING.
22. 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	50. RESTORATION OF CURBS, DRIVEWAYS, SIDEWALKS, AND PLACEMENT OF SOD SHALL BE COMPLET CALENDAR DAYS OF INITIAL DISTURBANCE, OR TWENTY-ONE CALENDAR DAYS OF SUBSTANTIAL WHICHEVER OCCURS FIRST. THE MINIMUM CURB REPLACEMENT LENGTH IS TEN (10) FEET.
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.	51. ALL EXISTING FENCES DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AN CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER UNLESS SHOWN TO BE REMOVED ON CO
23. 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.	52. WHERE CONCRETE REPAIRS ARE NECESSARY AND EXPANSION OR CONTRACTION JOINTS ARE PR SHALL REMOVE AND REPLACE CONCRETE UP TO THE NEXT EXPANSION OR CONTRACTION JOINT. CONSTRUCTION
24. 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.	53. THE EXHAUST SYSTEM OF ALL GASOLINE AND DIESEL ENGINES SHALL BE EQUIPPED WITH MUFF EQUIPMENT MANUFACTURER'S REQUIREMENTS FOR NOISE SUPPRESSION. THE CONTRACTOR SHA ABATEMENT BAFFLES POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFEC APPROVED BY THE ENGINEER.
25. 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	54. NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED DAILY. ROADS SHALL BE SWEPT DAILY AS PART OF DAILY CLEAN UP.
SEXISTING BODIES OF WATER, MUST BE INSTALLED, CONSTRUCTED, OR IN THE CASE OF VEGETATIVE BUFFERS,Image: Solution of the state of the	55. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATER METHODS AS REQUIRED.
DAMAGE OR EROSION WITHIN ONE (1) WEEK OF INSTALLATION. 26. ALL SWALES, DITCHES, AND CHANNELS LEADING FROM THE SITE SHALL BE PROTECTED FROM SILTATION AND EROSION	56. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTA
DURING CONSTRUCTION AND BE SODDED WITHIN THREE (3) DAYS OF EXCAVATION.	57. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OR TRIMMING OF ANY TREE WITHIN THE CO
ARE CONSIDERED ENVIRONMENTALLY SENSITIVE. EROSION CONTROL SYSTEMS SHALL BE REQUIRED FOR ALL WORK WITHIN JURISDICTIONAL AREAS. THESE SYSTEMS MAY INCLUDE STAKED HAY BALES, SILT SCREENS, FILTER FABRIC, AND TURBIDITY SCREENS.	DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM. 59. ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN
28. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.	60. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.
29. THE CONTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER WETLAND AREAS THAT MAY BE ON OR NEAR THE CONSTRUCTION SITE. ALL WORK IN THE VICINITY OF OPEN WATER AND/OR WETLANDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL REGULATIONS AND/OR PERMITS FOR THE SITE. THE CONTRACTOR WILL BE	61. WHERE IT IS NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE DEFLEC EXCEED 75% OF THE MANUFACTURER'S MAXIMUM ALLOWABLE RECOMMENDED DEFLECTION.
RESPONSIBLE FOR ANY FINES RESULTING FROM HIS VIOLATION OF ANY REGULATIONS OR PERMIT CONDITIONS. 30. CONTRACTOR SHALL PROVIDE PROTECTIVE MATTING, FUEL CONTAINMENT AND ALL OTHER MATERIALS, EQUIPMENT AND	62. ALL ROCKS OR STONES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BAC BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES SHALL NOT CO
LABOR TO PROTECT THE STAGING AREA DURING CONSTRUCTION. 31. CONTRACTOR SHALL, PRIOR TO BEGINNING CONSTRUCTION, SUBMIT A "FUELING SPILL PREVENTION PLAN" THAT SHALL	63. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES AN
CLEARLY INDICATE HOW FUEL SPILLS WILL BE PREVENTED WHEN FUELING BOTH WITHIN AND OUTSIDE OF THE STAGING	
Kiml	ey»Horn DATE September
	ALEY-HORN AND ASSOCIATES, INC.
	HONE: 727–547–3999 drawn by SLB HORN.COM REGISTRY NO. 35106 CHECKED BY JWW MANATEE COU

- SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE AND CORNER MONUMENTS, PINS, AND LANDMARKS THAT MAY BE DISTURBED BY CONSTRUCTION AT NO TO THE OWNER.
- PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC. MUST OBTAIN ANY REQUIRED JSE PERMITS AND A TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED IER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDA DEPARTMENT ON "MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES". A TRAFFIC CONTROL PLAN SHALL BE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.
- SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED STORM WATER STRUCTURES, PIPING ND HEADWALLS WHETHER SHOWN ON THE PLANS OR NOT. THE HEADWALLS SHALL BE REPLACED IN F.D.O.T. STANDARDS.
- SIBILITY OF THE CONTRACTOR TO ESTABLISH IN THE FIELD THE RIGHT-OF-WAY LINES, BASE LINES, EV.), CENTER LINES, AND STATIONING AS REQUIRED TO CONSTRUCT THIS PROJECT.
- SHALL COORDINATE THE CUTTING OF DRIVEWAYS WITH THE PROPERTY OWNER PRIOR TO CUT. ALL IN PASSABLE CONDITION AT THE END OF THE WORK DAY AND FULLY RESTORED PER SECTION
- AGREEMENT SHALL BE OBTAINED BY THE CONSTRUCTION MANAGER FROM THE PROPERTY OWNER EWAY CONSTRUCTION WORK IS DONE OUTSIDE OF THE RIGHT-OF-WAY OR EASEMENT.
- TIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO TION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE CT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA NOT BEEN LOCATED OR IDENTIFIED, MAY NOT BE IN THE EXACT LOCATION SHOWN OR RELOCATED ATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION. THE TIONS AND DIMENSIONS OF ALL EXISTING UTILITIES STRUCTURES AND OTHER FEATURES (WHETHER THE PLANS) THAT MAY EFFECT HIS WORK. ALL EXISTING UTILITIES TO BE EXTENDED. CROSSED OR IS SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND ELEVATION. ANY CONFLICTS FOUND SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION.
- SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, ALKS, SIGNS, MAIL BOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR ONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED ITEM DUE TION ACTIVITIES TO EQUAL OR BETTER THAN PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL
- SHALL USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED OR OFFERED BY FLORIDA TO PREVENT UNDERMINING OF POWER POLES DURING CONSTRUCTION. IF HOLDING OF POWER POLES OR REQUIRED BY THE UTILITY, THE CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE ALL RELATED COSTS.
- HUTDOWNS FOR MODIFICATIONS OF EXISTING UTILITY SYSTEMS THAT MUST REMAIN IN SERVICE TIONS SHALL BE KEPT TO A MINIMUM AND SHALL BE COORDINATED WITH AND APPROVED BY THE UTILITY OPERATIONS DEPARTMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. IT IS NOTED SHUTDOWNS MAY BE RESTRICTED TO CERTAIN HOURS AT ANY TIME OF THE DAY OR NIGHT AND D AT NO ADDITIONAL COST TO THE OWNER.
- F THE UTILITY SERVICES AND LATERALS HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL COVERAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL OR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE PROPOSED RACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT CONSTRUCTION, THE COST OF UTILITY SSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH THE THE PROPOSED. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO ERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.
- WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES HERWISE.
- ASSED AREAS SHALL BE SODDED UNLESS OTHERWISE INDICATED. THE TYPE OF SOD USED TO IAINTAINED AREAS IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER.
- RUST BLOCKS INSTALLED FOR TESTING PURPOSES AND NOT REQUIRED FOR THE OPERATION OF THE REMOVED AND DISPOSED OF BY THE CONTRACTOR, PRIOR TO FINAL ACCEPTANCE, AT NO TO THE OWNER.
- NLESS OTHERWISE INDICATED SHALL BE RESTORED PER DRIVEWAY RESTORATION DETAIL.
- YS OR SIDEWALKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO THE OF THE F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN, SECTION 522, AND SECTION 310 SIGN STANDARDS AND MANATEE COUNTY PUBLIC WORKS STANDARD UNLESS SHOWN OTHERWISE.
- IANENT ROADWAY SURFACE IS NOT REPLACED IMMEDIATELY AFTER BACKFILLING AND COMPACTION TALLED PIPE LINE IN AREAS WHERE TRAFFIC MUST PASS, THE CONTRACTOR SHALL INSTALL A CONSISTING OF NINE INCHES OF COMPACTED LIME ROCK BASE AND A COAT OF ASPHALT IENT ROADWAY REPAIR SHALL BE PERFORMED A MAXIMUM OF TWENTY-ONE CALENDAR DAYS AFTER CUTTING.
- URBS, DRIVEWAYS, SIDEWALKS, AND PLACEMENT OF SOD SHALL BE COMPLETED WITHIN FORTY-FIVE F INITIAL DISTURBANCE, OR TWENTY-ONE CALENDAR DAYS OF SUBSTANTIAL COMPLETION, S FIRST. THE MINIMUM CURB REPLACEMENT LENGTH IS TEN (10) FEET.
- CES DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AND REINSTALLED BY THE NO ADDITIONAL COST TO THE OWNER UNLESS SHOWN TO BE REMOVED ON CONSTRUCTION PLANS. REPAIRS ARE NECESSARY AND EXPANSION OR CONTRACTION JOINTS ARE PRESENT, CONTRACTOR
- TEM OF ALL GASOLINE AND DIESEL ENGINES SHALL BE EQUIPPED WITH MUFFLERS THAT MEET THE ACTURER'S REQUIREMENTS FOR NOISE SUPPRESSION. THE CONTRACTOR SHALL INSTALL NOISE S POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES, AS FNGINFFR.
- LL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE ALL BE SWEPT DAILY AS PART OF DAILY CLEAN UP.
- IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER
- ESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.
- WILL BE REQUIRED FOR REMOVAL OR TRIMMING OF ANY TREE WITHIN THE CONSTRUCTION AREA. SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. QUIRED TO 18" BELOW TRENCH BOTTOM.
- ITINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN THE CONTRACT IALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS AND PROFILES.
- COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.
- SSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE DEFLECTION SHALL NOT HE MANUFACTURER'S MAXIMUM ALLOWABLE RECOMMENDED DEFLECTION.
- INES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES INCH DIAMETER.
- UNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES AND PUMP STATIONS ON

- 64. THE CONTRACTOR, PRIOR TO ANY TEMPORARY WATER SHUT-OFFS DURING WATER MAIN TIE-IN, ETC., SHALL NOTIFY THE AFFECTED RESIDENTS BY POSTING INFORMATIONAL SIGNS IN THE NEIGHBORHOOD AT LEAST TWO DAYS (48 HRS) PRIOR TO THE WATER SHUT-OFF. REFERENCE SECTION 01580, PARAGRAPH 1.03 OF THE SPECIFICATIONS. WHEN FEASIBLE, "DOOR HANGERS" SHALL BE DELIVERED TO AFFECTED RESIDENCES AT LEAST TWO DAYS (48 HRS) PRIOR TO WATER SHUT-OFF. FOR LARGE PROJECTS WITH HUNDREDS OF HOMES AFFECTED, THE CONTRACTOR SHALL ALSO MAKE EXTENSIVE USE OF THE MEDIA AND SHALL HAVE PRIOR CONTACT WITH HOMEOWNER'S ASSOCIATIONS AND THE RESPECTIVE CITY'S. WRITTEN NOTIFICATIONS SHALL ALSO BE FAXED TO THE TAMPA TRIBUNE, BRADENTON HERALD, AMI SUN, ISLANDER, SARASOTA HERALD TRIBUNE, WBRD RADIO, EMERGENCY COMMUNITY CENTERS, INSPECTIONS, WATER TREATMENT PLANT, WATER MANAGER, HELPLINE, CUSTOMER SERVICE, AND THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT.
- 65. 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.
- 66. UNLESS OTHERWISE NOTED, 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, GROUTED, AND CAPPED. REFER TO SECTION 02064 OF THE SPECIFICATIONS FOR CUT AND CAPPING ABANDONED PIPE.
- 67. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.
- 68. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION FROM THE MANATEE COUNTY UTILITIES DEPARTMENT (MCUD) OFFICE OF INDUSTRIAL COMPLIANCE PRIOR TO DEWATERING. COMPLETION OF A CONSTRUCTION DEWATERING AUTHORIZATION TO DISCHARGE APPLICATION IS REQUIRED. FILL OUT FORM AS COMPLETELY AS POSSIBLE AS MISSING INFORMATION DELAYS THE APPROVAL PROCESS.
- 69. THE MCUD OFFICE OF INDUSTRIAL COMPLIANCE WILL DETERMINE WHETHER A LETTER OF APPROVAL, A DISCHARGE AUTHORIZATION, OR A DISCHARGE PERMIT IS REQUIRED.
- 70. FOR SITES SUSPECTED OF CONTAMINATED GROUNDWATER MANATEE COUNTY WILL REQUIRE AN APPLICANT TO DEMONSTRATE THAT THE DISCHARGE MEETS THE MANATEE COUNTY SEWER USE ORDINANCE.
- 71. IF ANY RECLAIMED OR WATER MAINS INCLUDING SERVICE LINES ARE DAMAGED DURING CONSTRUCTION, THEY SHALL BE REPLACED FROM THE VALVE TO THE OTHER POINT OF CONNECTION OUTSIDE OF THE ROADWAY PER MANATEE COUNTY'S STANDARDS.

FDOT CONSTRUCTION NOTES FOR UTILITIES

- 1. IF THE PROPOSED UTILITY CANNOT BE INSTALLED PER THE APPROVED PERMITTED PLAN AND BY FDOT SPECIFICATIONS, A REVISED PLAN MUST BE PROVIDED TO THE DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE INSTALLATION OF PRODUCTS OR MATERIALS AT THE GIVEN LOCATIONS WHERE CONFLICTS OCCUR.
- 2. ANY NEW PROPOSED PLAN SHALL INCLUDE CROSS SECTIONS, PLAN VIEWS AND PROFILES OF THE STATE ROAD ADEQUATELY REFLECTING ALL RIGHT-OF-WAY FEATURES INCLUDING BUT NOT LIMITED TO EXISTING UTILITIES, STORM DRAIN SYSTEMS AND ANY ABOVE OR BELOW GROUND APPURTENANCES WHERE APPLICABLE.
- 3. NO PEDESTRIAN PATHWAY IS TO BE REMOVED, BLOCKED, OR DISTURBED WITHOUT HAVING A SUFFICIENT DESIGNATED TEMPORARY PEDESTRIAN PATHWAY WITH ALL APPROPRIATE PEDESTRIAN MAINTENANCE OF TRAFFIC SIGNS (INDEX 660) IN-PLACE PRIOR TO PATHWAY BEING AFFECTED.
- 4. ALL TEMPORARY PEDESTRIAN PATHWAYS MUST BE FIRM AND UNYIELDING.
- 5. ANY SIDEWALK DISTURBED WILL BE REPLACED BY SECTION WITHIN 72 HOURS TO FDOT SPECIFICATIONS.
- 6. ALL CONCRETE PLACED WITHIN FDOT RIGHT-OF-WAY FOR DRIVEWAYS AND SIDEWALKS SHALL BE A MINIMUM OF 6 INCHES THICK AND BE AN FDOT-APPROVED MIX, CLASS 1 NON-STRUCTURAL, 2,500 PSI WITH FIBER MESH.
- 7. FDOT RESERVES THE RIGHT TO MAKE ADJUSTMENTS TO ANY PERMITTED METHOD OF INSTALLATION, SCOPE OF WORK, AND RESTORATION THAT MAY BE REQUIRED TO POSITIVELY SUPPORT LIFE, SAFETY, AND ENVIRONMENTAL WELL-BEING OF ALL USERS OF THE TRANSPORTATION SYSTEM.
- 8. THE PERMITTEE SHALL NOTIFY THE FDOT OF DATE OF COMPLETION, REQUEST A FINAL INSPECTION, AND A NOTICE OF FINAL ACCEPTANCE.
- 9. ALL CONSTRUCTION AND/OR MAINTENANCE IN THE FDOT RIGHT-OF-WAY SHALL CONFORM TO THE FEDERAL MANUAL ON UNIFORM TRAFFIC DEVICES (MUTCD), THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE FLORIDA DESIGN MANUAL, AND THE DRAINAGE MANUAL.
- 10. PRIOR TO REMOVAL OF EXISTING CURB OR DRIVEWAY. THE EDGE OF TRAVEL SHALL BE SAWCUT TO AVOID DAMAGING THE EXISTING ROADWAY ASPHALT. ALL CONCRETE TO BE REMOVED IN FDOT RIGHT-OF-WAY SHALL BE SAWCUT AND REMOVED FROM THE NEAREST JOINT.
- 11. NO LANE CLOSURE OF ANY STATE ROADWAY IS ALLOWED WITHOUT A MINIMUM OF TWO (2) BUSINESS DAYS ADVANCE NOTIFICATION AND APPROVAL FROM FDOT.
- 12. LANE CLOSURES MUST BE LIMITED TO SUNDAY THROUGH THURSDAY 8:00 PM TO 5:30 AM UNLESS OTHERWISE APPROVED BY FDOT
- 13. ANY SIDEWALK DAMAGED BECAUSE OF WORK BEING PERFORMED IN ASSOCIATION WITH THE PERMITTEE ND CONTRACTOR SHALL BE REMOVED AND REPLACED WITH 6-INCH THICK CLASS 1 NON-STRUCTURAL, 2,500 PSI WITH FIBER MESH.
- 14. OPEN CUTTING OF ANY ROADWAY, DRIVEWAY OR SIDEWALK OUTSIDE THOSE LIMITS IDENTIFIED WITHIN THE PERMIT ARE NOT ALLOWED WITHOUT PRIOR APPROVAL OF FDOT.
- 15. THE CONTRACTOR SHALL HAVE AN AUTHORIZED PERSON AVAILABLE AT/OR NEAR THE WORK SITE ON A 24-HOUR BASIS, 7 DAYS A WEEK IN ORDER TO ADDRESS EMERGENCY ISSUES ASSOCIATED WITH THE PROJECT.
- 16. NO STOCKPILING, STORING OR SEMI-PERMANENT USE OF THE RIGHT-OF-WAY IS AUTHORIZED UNLESS SPECIFICALLY IDENTIFIED WITHIN THE PERMIT.
- 17. NO WORK SHALL BE PERFORMED DURING THE WEEKS OF ANY STATE OR FEDERAL HOLIDAY UNLESS OTHERWISE APPROVED IN WRITING BY FDOT.
- 18. THE PERMITTED WORK SCHEDULE IS DEFINED AS MONDAY THROUGH FRIDAY 7:00 AM TO 5:30 PM UNLESS OTHERWISE NOTED WITHIN THE PERMIT. ANY WORK DESIRED OUTSIDE OF THIS PERIOD MUST BE REQUESTED IN ADVANCE AND APPROVED BEFORE WORKING THE ALTERNATE SCHEDULE.
- 19. WHEN WORK IS ASSOCIATED WITH ROADWAY MODIFICATIONS AND/OR SITE DEVELOPMENT, THE CONTRACTOR IS REQUIRED TO HAVE A PRECONSTRUCTION MEETING WITH THE FDOT INSPECTOR TWO WEEKS PRIOR TO ANY CONSTRUCTION BEGINNING WITHIN THE RIGHT-OF-WAY.
- 20. ALL WORK PERFORMED UNDER THIS PERMIT WITHIN THE RIGHT-OF-WAY IS TO BE SCHEDULED WITH FDOT INSPECTION STAFF.

MAINTENANCE OF TRAFFIC 1. CONTRACTOR SHALL MAINTAIN MAINTENANCE OF TRAFFIC USING THE LATEST EDITION OF THE FDOT STANDARD PLANS DESIGN STANDARDS INDEX 102-602.

CONSTRUCTION DURING FDOT PROJECT CONSTRUCTION

- 1. THE CONTRACTOR IS REQUIRED TO KEEP THE TOTAL ON-SITE CONSTRUCTION TIME OF THE PROJECT TO THE MAXIMUM DAYS IN THE APPROVED UTILITY WORK SCHEDULE FOR FPID 446348-1, AS SHOWN IN THE SPECIFICATIONS.
- 2. THE CONTRACTOR AGREES TO NOTIFY FDOT AND ITS CONTRACTOR IN WRITING BEFORE STARTING, STOPPING, RESUMING, AND COMPLETING WORK IN ACCORDANCE WITH THE UTILITY WORK SCHEDULE FOR FPID 446348-1



GENERAL NOTES

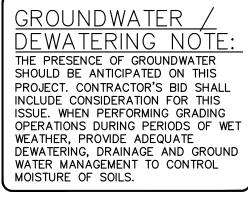
LEGEND REMOVE EXISTING WATER MAIN EXISTING WATER MAIN EXISTING BURIED FIBER EXISTING BURIED ELECTRIC EXISTING OVERHEAD EXISTING BURIED TELEPHONE EXISTING SANITARY PROPOSED WATER MAIN PROPOSED BENDS AND FITTINGS CONCRETE SIDEWALK/DRIVEWAY RESTORATION

DISINFECTION AND TESTING

EDITION).

FRIDAY.

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4. THE WATER SYSTEM SHALL BE TESTED FOR LEAKAGE AT 180 PSI FOR TWO (2) HOURS, WITH ALLOWABLE LEAKAGE IN ACCORDANCE WITH AWWA STANDARD C600 (LATEST EDITION) THERE SHALL BE NO WORK OR ACTIVITY DURING PRESSURE TEST.

5. CONTRACTOR SHALL OBTAIN A COPY OF THE FDEP WATER SYSTEM PERMIT AND PULL BACTERIOLOGICAL TEST SAMPLE FROM THE SAMPLE POINTS SPECIFIED IN THAT PERMIT

1. ALL PIPES SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651 (LATEST

2. ALLOWABLE LEAKAGE FOR PVC PRESSURE MAINS WILL BE IN ACCORDANCE WITH AWWA M23.

3. THE CONTRACTOR SHALL PROVIDE AT HIS OWN EXPENSE ALL NECESSARY TEST PUMPING

EQUIPMENT, WATER, WATER METERS, PRESSURE GAUGES, AND OTHER EQUIPMENT, MATERIAL

AND FACILITIES REQUIRED FOR ALL HYDROSTATIC AND LEAKAGE TESTING. CONTRACTOR

SHALL CONTACT THE UTILITY AND ENGINEER IN WRITTEN FORM, SEVENTY-TWO (72) HOURS IN

ADVANCE OF PROPOSED TESTING. THE CONTRACTOR SHALL PERFORM SATISFACTORY

PRETESTING PRIOR TO NOTIFICATION. NO TESTING WILL BE SCHEDULED ON A MONDAY OR

TESTING SHALL BE PERFORMED IN THE FOLLOWING ORDER.

1. PRESSURE TEST 3. DISINFECTION 2. FULL BORE FLUSH 4. BACTERIOLOGICAL SAMPLES CSXT TRANSPORTATION (CSXT) GENERAL NOTES:

- 1. CSXT OWNS ITS RIGHT-OF-WAY FOR THE PRIMARY PURPOSE OF OPERATING A RAILROAD, AND SHALL MAINTAIN UNRESTRICTED USE OF ITS PROPERTY FOR CURRENT AND FUTURE OPERATIONS.
- 2. AGENCY OR ITS CONTRACTOR SHALL ARRANGE AND CONDUCT ITS WORK SO THAT THERE WILL BE NO INTERFERENCE WITH CSXT OPERATIONS, INCLUDING TRAIN, SIGNAL, TELEPHONE AND TELEGRAPHIC SERVICES, OR DAMAGES TO CSXT'S PROPERTY, OR TO POLES, WIRES, AND OTHER FACILITIES OF TENANTS OF CSXT'S PROPERTY OR RIGHT--OF--WAY.
- 3. REFER TO THE CSXT'S "DESIGN & CONSTRUCTION STANDARD SPECIFICATIONS PIPELINE OCCUPANCIES" REVISED JUNE 5, 2018 (4.1.2).
- 4. WORK SCHEDULE IS SUBJECT TO THE APPROVAL OF ALL REQUIRED CONSTRUCTION SUBMITTALS BY THE CSXT CONSTRUCTION REPRESENTATIVE, VERIFICATION THAT PROPOSED WORK WILL NOT CONFLICT WITH ANY CSXT U.G. FACILITIES, AND THE AVAILABILITY OF CSXT FLAGGING AND PROTECTION SERVICES. CONSTRUCTION SUBMITTALS WILL BE BASED UPON THE PROPOSED SCOPE OF WORK AND MAY INCLUDE, BUT ARE NOT LIMITED TO; PROPOSED WORK PLAN, PROJECT SCHEDULE, MEANS AND METHODS, SITE ACCESS, DEWATERING, TEMPORARY EXCAVATION/SHORING, SOIL DISPOSITION/MANAGEMENT, TRACK MONITORING, CONCRETE PLACEMENT WORK, STRUCTURAL LIFTING/RIGGING PLANS FOR HOISTING OPERATIONS, SUBSTRUCTURE CONSTRUCTION PLANS, STEEL ERECTION PLANS, ROADWORK PLANS, ETC. NO WORK MAY BEGIN ON, OVER, OR ADJACENT TO CSXT PROPERTY, OR THAT COULD POTENTIALLY IMPACT CSXT PROPERTY, OPERATIONS OR SAFETY WITHOUT THE PRIOR COMPLETION AND APPROVAL OF THE REQUIRED AFOREMENTIONED INFORMATION AND APPROVALS.
- 5. PRIOR TO CONSTRUCTION, ALL SIGNAL FACILITIES AND/OR WARNING DEVICES AT PROPOSED FACILITY CROSSING, I.E. CANTILEVERS, FLASHERS, AND GATES MUST BE LOCATED AND MARKED/FLAGGED BY CSXT. THE TRADITIONAL "ONE CALL" UTILITY LOCATE SERVICES ARE NOT RESPONSIBLE FOR LOCATING ANY CSXT UNDER--GRADE UTILITIES OR FACILITIES CONTRACTOR SHALL BE HELD LIABLE FOR ANY DAMAGES TO CSXT COMMUNICATION & SIGNAL FACILITIES.
- 6. CONTRACTOR ALSO HAS THE SOLE RESPONSIBILITY OF ASCERTAINING THAT ALL OTHER UTILITIES HAVE BEEN PROPERLY LOCATED BY COMPLYING WITH THE LOCAL "CALL BEFORE YOU DIG" REGULATION(S). CONTRACTOR SHALL SOLELY BE RESPONSIBLE FOR NOTIFYING OWNERS OF ADJACENT PROPERTIES AND OF UNDERGROUND FACILITIES AND UTILITY OWNERS WHEN PROSECUTION OF THE WORK MAY AFFECT THEM, AND SHALL COOPERATE WITH THEM IN THE PROTECTION, REMOVAL, RELOCATION AND REPLACEMENT OF THEIR PROPERTY.
- 7. THE USE OF CONSTRUCTION SAFETY FENCING IS REQUIRED WHEN A CSXT FLAGMAN IS NOT PRESENT. DISTANCE OF FENCING FROM NEAREST RAIL TO BE DETERMINED BY THE CSXT TRACK SUPERVISOR AND SHALL BE REMOVED UPON COMPLETION OF THE PROJECT.
- 8. CONTRACTOR ACCESS WILL BE LIMITED TO THE IMMEDIATE PROJECT AREA ONLY. THE CSXT PROPERTY OUTSIDE THE PROJECT AREA MAY NOT BE USED FOR CONTRACTOR ACCESS TO THE PROJECT SITE AND NO TEMPORARY AT--GRADE CROSSINGS WILL BE ALLOWED.
- 9. ALL MATERIAL AND EQUIPMENT WILL BE STAGED TO NOT BLOCK ANY CSXT ACCESS OR MAINTENANCE ROADS. NO HOISTING OR AUXILIARY EQUIPMENT NECESSARY FOR THE PROCEDURE SHALL BE PLACED ON CSXT TRACK STRUCTURE AND / OR BALLAST SECTION. CLEAR WORKING LOCATIONS FOR EQUIPMENT USED WILL BE LAID OUT AND APPROVED BY CSXT'S REPRESENTATIVE PRIOR TO EQUIPMENT SET--UP. AGENCY AND CONTRACTOR SHALL NOT STORE THEIR MATERIALS OR EQUIPMENT ON CSXT'S PROPERTY OR WHERE THEY MAY POTENTIALLY INTERFERE WITH CSXT'S OPERATIONS.
- 10. CSXT DOES NOT GRANT OR CONVEY AN EASEMENT FOR THIS INSTALLATION.
- 11. CSXT REQUIRES CONTRACTORS, SUBCONTRACTORS, AND VENDORS TO PARTICIPATE IN JOB SAFETY BRIEFINGS DAILY AND AS NECESSARY WITH THE CSXT FLAGGER. THE SCOPE OF WORK MAY REQUIRE THAT VARIOUS PROTECTION AGAINST TRAIN MOVEMENTS BE DISCUSSED. UNDERSTOOD, AND UTILIZED. WORK SHALL ONLY BE UNDERTAKEN WITH THE PRESENCE AND PERMISSION OF THE CSXT FLAGGER. IF AT ANY TIME THE CSXT FLAGGER PERCEIVES THAT THE HOISTING PROCEDURE IS CAUSING OR HAS THE POTENTIAL TO CAUSE A HAZARD OR DELAY TO CSXT OPERATIONS THROUGH THE PROJECT SITE, WORK WILL CEASE UNTIL SUCH TIME AS SATISFACTORY MODIFICATIONS HAVE BEEN REVIEWED AND APPROVED.
- 12. THE RIGHT OF WAY SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE CONDITION PRIOR TO BEGINNING THE PROJECT BEFORE FINAL ACCEPTANCE WILL BE PROVIDED. PUNCH LISTS SHALL BE RESPONDED TO PRIOR TO ISSUANCE OF AN ACCEPTANCE MEMORANDUM SIGNED BY THE CSXT REPRESENTATIVE.
- 13. NO CONSTRUCTION OR ENTRY UPON THE CSXT CORRIDOR IS PERMITTED UNTIL THE DOCUMENT TRANSACTION IS COMPLETED, YOU ARE IN RECEIPT OF A FULLY EXECUTED DOCUMENT, AND YOU HAVE OBTAINED AUTHORITY FROM CSXT'S.
- 14. THE FRONT OF THE PIPE SHALL BE PROVIDED WITH MECHANICAL ARRANGEMENTS OR DEVICES THAT WILL POSITIVELY PREVENT THE AUGER FROM LEADING THE PIPE SO THAT NO UNSUPPORTED EXCAVATION IS AHEAD OF THE PIPE. THE BORE HEAD / AUGER SET--UP (SKETCH OR PHOTOS) SHALL BE SUBMITTED BY CONTRACTOR AND ACCEPTED BY ASSIGNED CSXT REPRESENTATIVE PRIOR TO START OF THE JACK & BORE.

- ENCOUNTERED.
- SPECIFICATIONS.
- COMMENCEMENT OF JACK AND BORE OPERATIONS.
- PROPERTY.
- SATISFACTION OF THE CSXT REPRESENTATIVE.
- OF THE AUTHORIZED CROSS-SECTION.
- TIF WRAP PRODUCT.
- A SPECIFIC TESTING REQUIREMENT OR STANDARD FOR STONE.
- THE WORK HAS BEEN MET.
- THE CSXT MANAGER ENVIRONMENTAL PROGRAMS.
- IS RECOMMENDED FOR VERIFICATION AND ACCURACY.
- PIPE MATERIALS, NUMBER OF INNERDUCTS, ETC.

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15. THE OPERATION SHALL BE PROGRESSED ON A 24--HOUR BASIS WITHOUT STOPPAGE (EXCEPT FOR ADDING LENGTHS OF PIPE) UNTIL THE LEADING EDGE OF THE PIPE HAS REACHED THE RECEIVING PIT.

16. THE AUGER AND CUTTING HEAD ARRANGEMENT SHALL BE REMOVABLE FROM WITHIN THE PIPE IN THE EVENT AN OBSTRUCTION IS

17. PIPELINE SHALL BE PROMINENTLY MARKED AT BOTH SIDES OF THE CSXT PROPERTY LINES BY DURABLE, WEATHERPROOF SIGNS LOCATED OVER THE CENTERLINE OF THE PIPE IN ACCORDANCE WITH CSXT

18. IF REQUIRED, A DEWATERING PLAN IN ACCORDANCE WITH CSXT SPECIFICATIONS WILL BE SUBMITTED TO THE CSXT REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO ANY DEWATERING OPERATIONS. DEWATERING DRAWDOWN LEVEL AT TRACKS SHALL BE FIELD VERIFIED THAT IT MEETS THE APPROVED DEWATERING DESIGN PRIOR TO

19. BLASTING IS NOT PERMITTED UNDER, ON, OR ADJACENT TO CSXT

20. JACKING PIT: IDENTIFY HAZARDS AND PUT CONTROLS IN PLACE PRIOR TO START OF EXCAVATION. CONTRACTOR SHALL ERECT A BARRIER AND CONSTRUCTION FENCE ALONG THE FACE OF JACKING PIT CONSTRUCTION LIMITS AND NOT ENCROACH PAST IT WHEN PREPARING THE PIT. STAKE OR MARK PIT AS NEEDED FOR DIGGING. EROSION CONTROL DEVICES SHALL BE PLACED AT THE JACKING AND RECEIVING PITS PROTECTING CSXT PROPERTY AND DITCHES TO THE

21. EXCAVATION: IF THE EXCAVATION IS 5 FEET OR GREATER IN DEPTH, THE WALLS MAY BE SLOPED AT 1.5 HORIZONTAL TO 1 VERTICAL TO REDUCE THE RISK OF CAVE-INS OR SLIDES. A SAFE MANNER IN WHICH TO ENTER AND EXIT THE EXCAVATION MUST BE ESTABLISHED. THE TOE OF SLOPES IN EXCAVATION SHALL IN NO CASE BE UNDERCUT BY POWER SHOVELS, BULLDOZERS, GRADERS, BLASTING, OR IN ANY MANNER. EXCAVATION SHALL NOT BE MADE IN EXCESS

22. BACKFILL, COVER OR FENCE ALL EXCAVATIONS WHEN UNATTENDED. THE CSXT REPRESENTATIVE WILL APPROVE THE PROTECTION METHOD AND THE TYPE OF FENCING MATERIAL. SET FENCING BACK AT LEAST 3 FEET (91 CENTIMETERS) FROM THE EDGES OF THE EXCAVATION. SET FENCE POSTS SECURELY IN THE GROUND AND INSURE THE FENCING IS SECURELY TIED TO POSTS WITH ZIP TIES OR SOME OTHER

23. FOR ANY EXCAVATIONS PERMITTED ON CSXT PROPERTY, ALL BACKFILL IN EXCAVATIONS AND TRENCHES SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY AS DEFINED IN ASTM STANDARD D1557 AND INSTALLED IN SIX-INCH LIFTS. IN-SITU SOIL SHALL BE USED FOR BACKFILL MATERIAL. SHOULD ADDITIONAL OFFSITE BACKFILL MATERIAL BE NEEDED, OFFSITE MATERIAL SOURCES ARE TO MEET STATE AND RESIDENTIAL CLEAN FILL REQUIREMENTS AND BE PREAPPROVED BY CSXT'S REPRESENTATIVE. CSXT DOES NOT REQUIRE

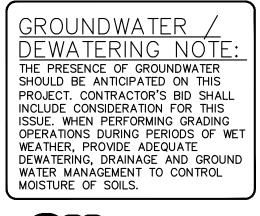
24. TRACK MONITORING: PRIOR TO COMMENCING JACK & BORE OPERATIONS, CONTRACTOR SHALL BE REQUIRED TO CONDUCT AND SUBMIT A BASELINE SURVEY ALONG THE TOP OF EACH RAIL UNDER CSXT FLAGGER PROTECTION AND IN ACCORDANCE WITH THE PREAPPROVED SETTLEMENT MONITORING CONSTRUCTION SUBMITTAL. ADDITIONAL SURVEY DATA SHALL BE COLLECTED AND SUBMITTED ONCE EACH DAY DURING CASING PIPE INSTALLATION, OR AS DIRECTED BY CSXT REPRESENTATIVE. CONTRACTOR SHALL ALSO TAKE ELEVATION SHOTS AT TOP OF TIE AND TOP OF CASING PIPE BEFORE STARTING THE BORE TO VERIFY DEPTH OF COVER PROPOSED FOR

25. PROJECTS THAT GENERATE SOILS FROM CSXT PROPERTY MUST ADHERE TO CSXT'S SOIL MANAGEMENT POLICIES. CSXT REQUIRES SOILS GENERATED FROM ITS PROPERTY TO EITHER BE REUSED ON CSXT PROPERTY OR PROPERLY DISPOSED IN A CSXT APPROVED DISPOSAL FACILITY. CSXT ENVIRONMENTAL DEPARTMENT WILL HANDLE WASTE CHARACTERIZATION AND PROFILING INTO AN APPROVED DISPOSAL FACILITY. CSXT PROHIBITS ANY ENVIRONMENTAL SAMPLING ON ITS PROPERTY UNLESS GRANTED THROUGH A WRITTEN ENVIRONMENTAL RIGHT-OF-ENTRY OR APPROVED IN WRITING BY THE CSXT ENVIRONMENTAL DEPARTMENT. THE MANAGEMENT OF SOILS GENERATED FROM CSXT PROPERTY SHOULD BE PLANNED FOR AND PROPERLY PERMITTED (IF APPLICABLE) PRIOR TO INITIATING ANY WORK ON CSXT PROPERTY. A LIST OF CSXT APPROVED LABORATORIES AND/OR DISPOSAL FACILITIES MAY BE OBTAINED FROM

26. CSXT DOES NOT REPRESENT OR WARRANT THE RIGHT-OF-WAY DIMENSIONS DEPICTED ON THESE DRAWINGS. A THIRD PARTY SURVEY

27. UPON COMPLETION OF PROJECT CONSTRUCTION, CONTRACTOR MUST SUBMIT TO CSXT THE AS-BUILT PLANS SHOWING THE FINAL ALIGNMENT ON CSXT PROPERTY, INCLUDING ACTUAL DEPTH OF FACILITY AND ANY FIELD CHANGE TO LOCATION ON CSXT PROPERTY,

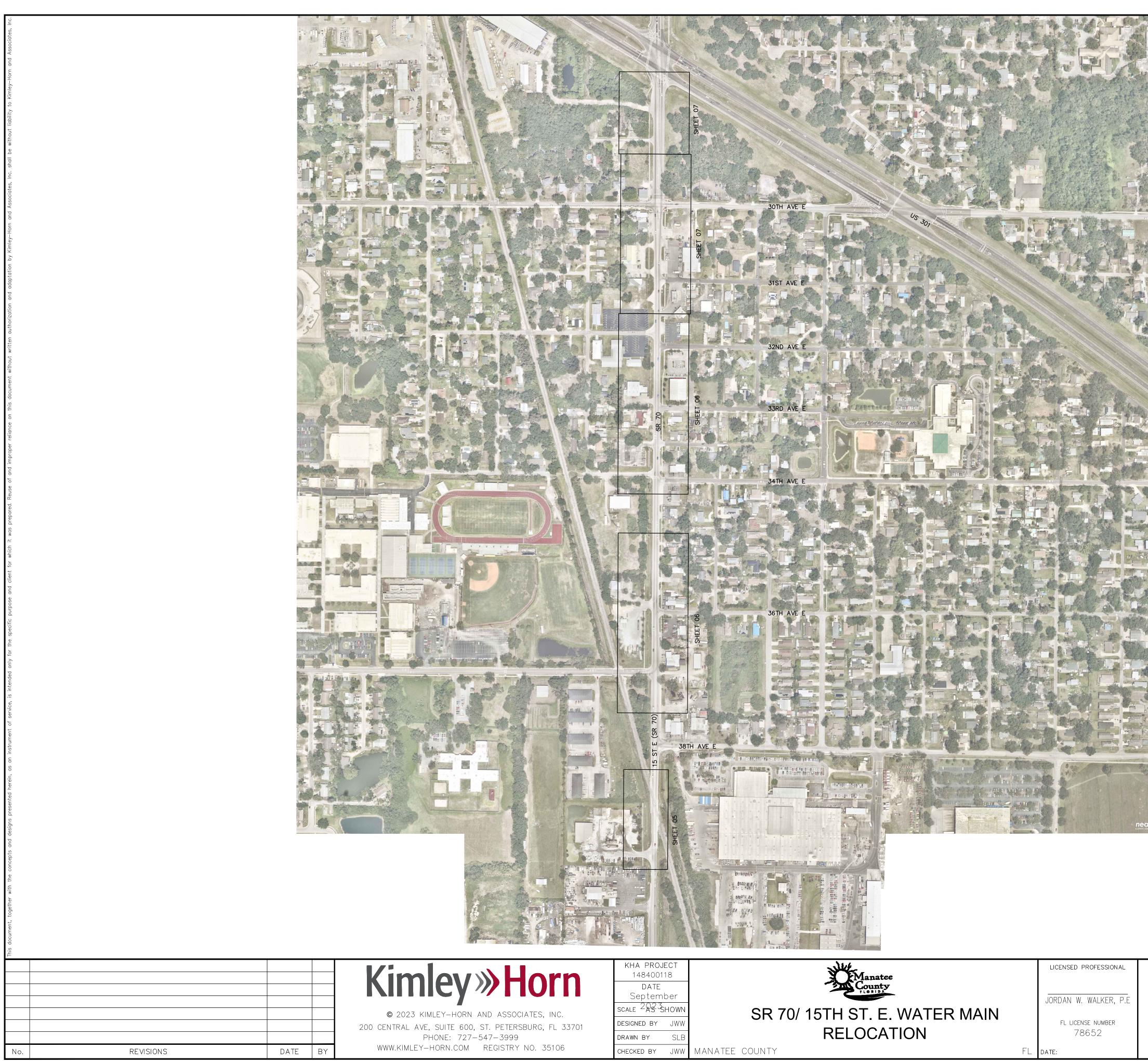






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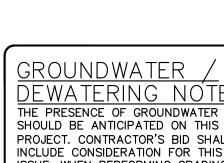
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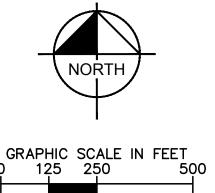
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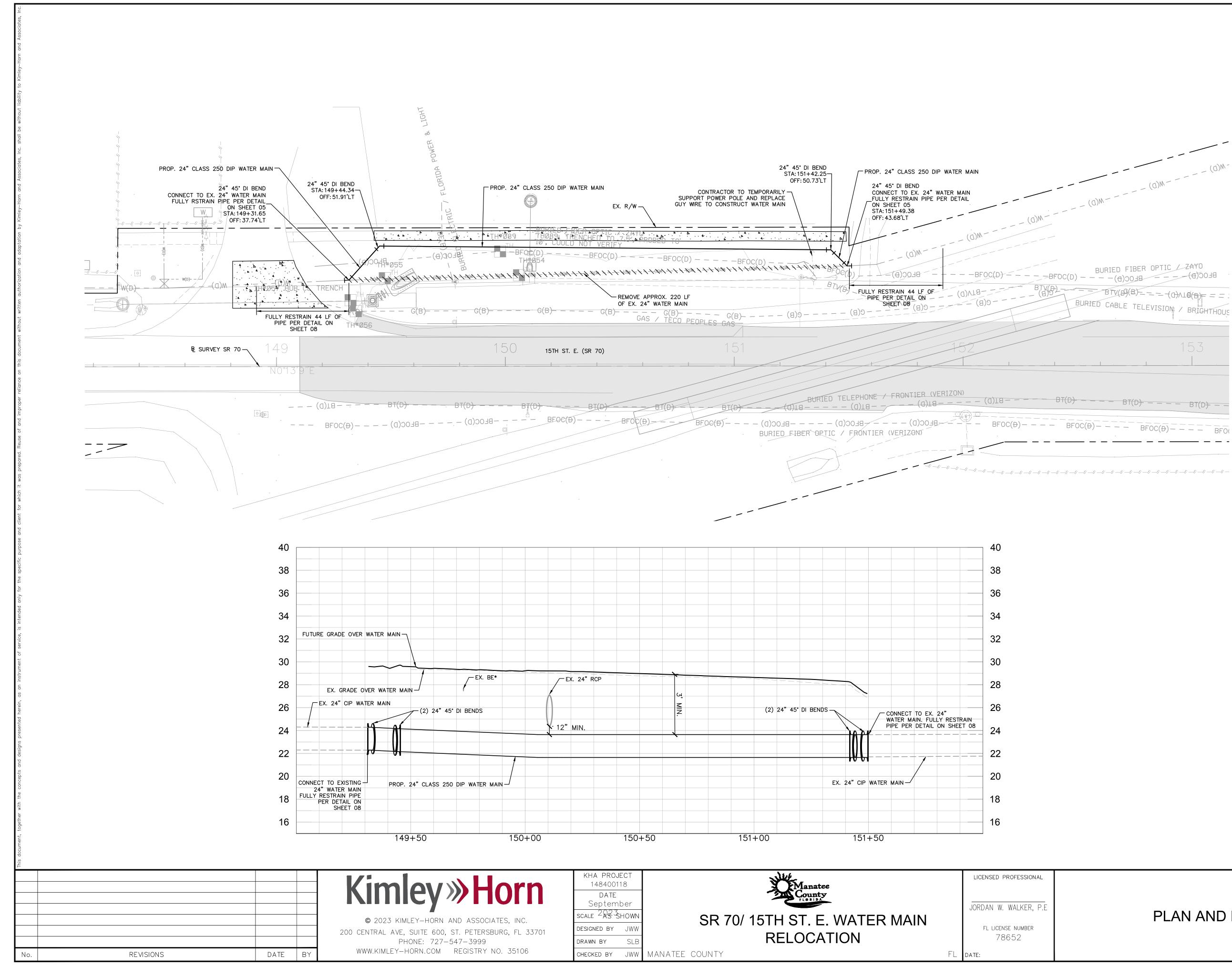
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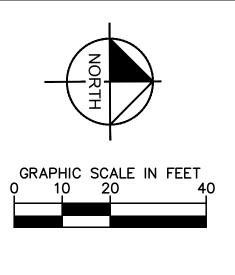


GROUNDWATER DEWATERING NOTE: THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.









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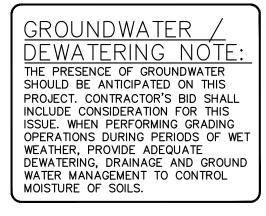
DISINFECTION AND TESTING

- 1. ALL PIPES SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651 (LATEST EDITION).
- 2. ALLOWABLE LEAKAGE FOR PVC PRESSURE MAINS WILL BE IN ACCORDANCE WITH AWWA M23.
- 3. THE CONTRACTOR SHALL PROVIDE AT HIS OWN EXPENSE ALL NECESSARY TEST PUMPING EQUIPMENT, WATER, WATER METERS, PRESSURE GAUGES, AND OTHER EQUIPMENT MATERIAL AND FACILITIES REQUIRED FOR ALL HYDROSTATIC AND LEAKAGE TESTING CONTRACTOR SHALL CONTACT THE UTILITY AND ENGINEER IN WRITTEN FORM, SEVENTY-TWO (72) HOURS IN ADVANCE OF PROPOSED TESTING. THE CONTRACTOR SHALL PERFORM SATISFACTORY PRETESTING PRIOR TO NOTIFICATION. NO TESTING WILL BE SCHEDULED ON A MONDAY OR FRIDAY.
- 4. THE WATER SYSTEM SHALL BE TESTED FOR LEAKAGE AT 180 PSI FOR TWO (2) HOURS, WITH ALLOWABLE LEAKAGE IN ACCORDANCE WITH AWWA STANDARD C600 (LATEST EDITION) THERE SHALL BE NO WORK OR ACTIVITY DURING PRESSURE TEST.
- 5. CONTRACTOR SHALL OBTAIN A COPY OF THE FDEP WATER SYSTEM PERMIT AND PULL BACTERIOLOGICAL TEST SAMPLE FROM THE SAMPLE POINTS SPECIFIED IN THAT PERMIT TESTING SHALL BE PERFORMED IN THE FOLLOWING ORDER.
- 1. PRESSURE TEST 3. DISINFECTION 2. FULL BORE FLUSH 4. BACTERIOLOGICAL SAMPLES

*NOTES:

THE ELEVATIONS OF THE UTILITIES MARKED WITH AN ASTERISK (*) HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL ANTICIPATED SOIL COVERAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL B RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE PROPOSED WATER MAIN. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO EFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

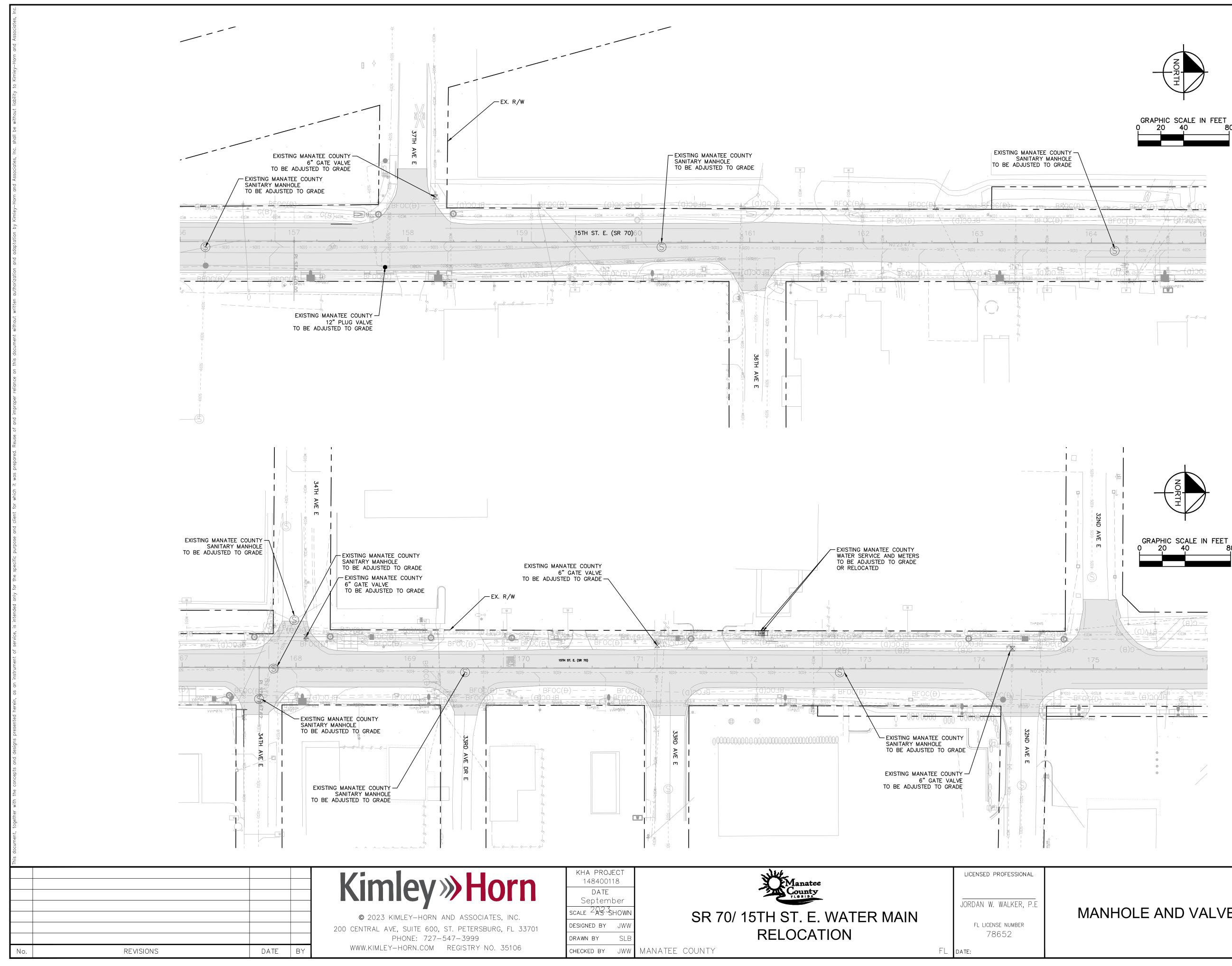
CONTRACTOR TO COORDINATE WITH CSX FOR REQUIRED FLAGGING OPERATIONS, MAINTENANCE OF TRAFFIC, ETC. NEEDED FOR CONSTRUCTION IN THE CSX RIGHT-OF-WAY.





SHEET NUMBER

PLAN AND PROFILE

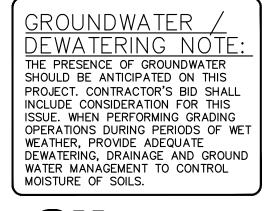


DISINFECTION AND TESTING

- 1. ALL PIPES SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651 (LATEST EDITION).
- 2. ALLOWABLE LEAKAGE FOR PVC PRESSURE MAINS WILL BE IN ACCORDANCE WITH AWWA M23.
- 3. THE CONTRACTOR SHALL PROVIDE AT HIS OWN EXPENSE ALL NECESSARY TEST PUMPING EQUIPMENT, WATER, WATER METERS, PRESSURE GAUGES, AND OTHER EQUIPMENT MATERIAL AND FACILITIES REQUIRED FOR ALL HYDROSTATIC AND LEAKAGE TESTING CONTRACTOR SHALL CONTACT THE UTILITY AND ENGINEER IN WRITTEN FORM, SEVENTY-TWO (72) HOURS IN ADVANCE OF PROPOSED TESTING. THE CONTRACTOR SHALL PERFORM SATISFACTORY PRETESTING PRIOR TO NOTIFICATION. NO TESTING WILL BE SCHEDULED ON A MONDAY OR FRIDAY.
- 4. THE WATER SYSTEM SHALL BE TESTED FOR LEAKAGE AT 180 PSI FOR TWO (2) HOURS, WITH ALLOWABLE LEAKAGE IN ACCORDANCE WITH AWWA STANDARD C600 (LATEST EDITION) THERE SHALL BE NO WORK OR ACTIVITÝ DURING PRESSURE TEST.
- 5. CONTRACTOR SHALL OBTAIN A COPY OF THE FDEP WATER SYSTEM PERMIT AND PULL BACTERIOLOGICAL TEST SAMPLE FROM THE SAMPLE POINTS SPECIFIED IN THAT PERMIT TESTING SHALL BE PERFORMED IN THE FOLLOWING ORDER.
- 1. PRESSURE TEST 3. DISINFECTION 2. FULL BORE FLUSH 4. BACTERIOLOGICAL SAMPLES

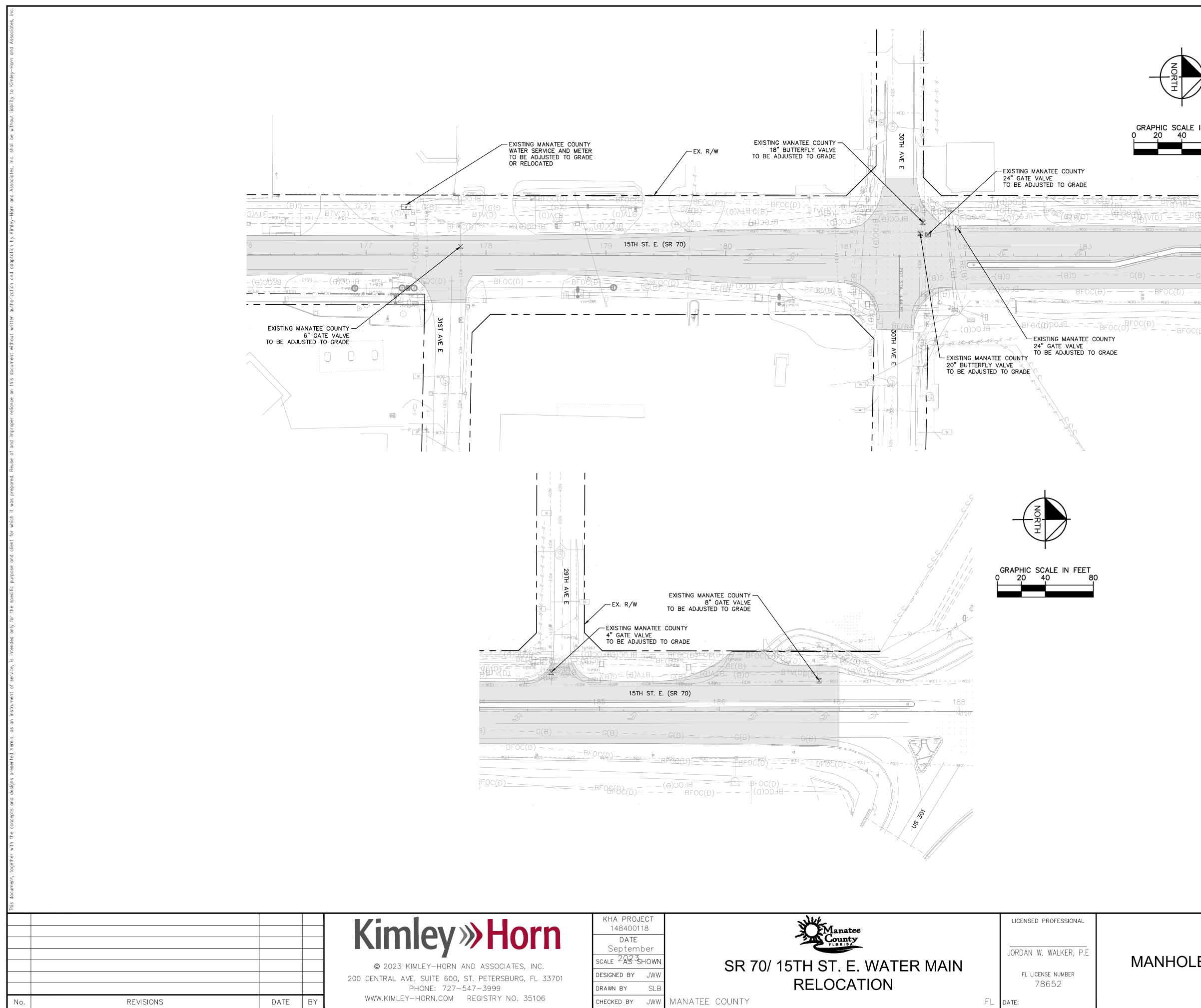
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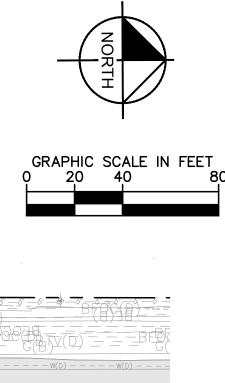




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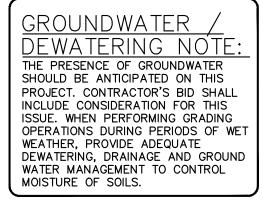


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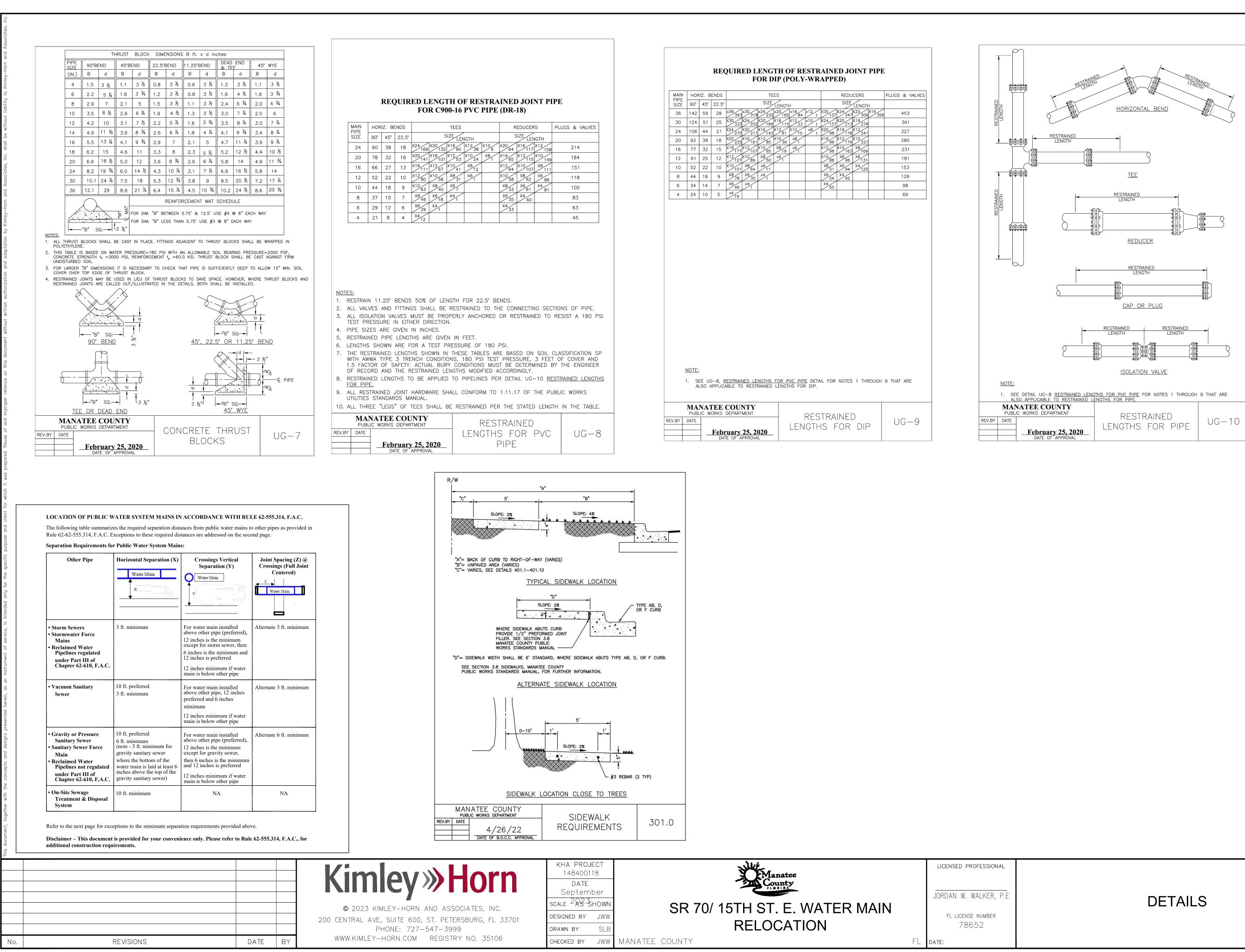
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SHEET NUMBER

MANHOLE AND	VAI VE	ADJUST	MENTS



P	HONE:	/2/-04	-7-3999
WWW.KIMLEY-	HORN.C	OM R	EGISTRY

RESTRAINED ENGTHS FOR PVC PIPE	UG-8	

MANATEE COUNTY PUBLIC WORKS DEPARTMENT RESTRAINED RESTRAINED LENGTHS FOR DIP UG-9		
February 25, 2020	DESTRAINED	
		UG-9

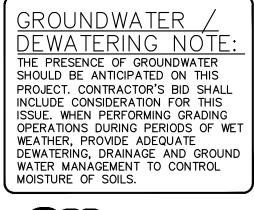
<u>NOTE</u>	<u>:</u>		
	EE UG-8, <u>RESTRAINED LENGTHS F</u> LSO APPLICABLE TO RESTRAINED L	<u>OR PVC PIPE</u> DETAIL FOR NOTES 1 THROUGH ENGTHS FOR DIP.	9 THAT ARE
	NATEE COUNTY LIC WORKS DEPARTMENT	RESTRAINED	

NOTE:		
1. SEE UG-8, <u>RESTRAINED LENGTHS FO</u> ALSO APPLICABLE TO RESTRAINED LI	<u>DR PVC PIPE</u> DETAIL FOR NOTES 1 THROUGH ENGTHS FOR DIP.	9 THAT ARE
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		

<u>NOT</u>	<u>'E:</u>								
	SEE UG-8, <u>RESTRAINED LENGTHS</u> ALSO APPLICABLE TO RESTRAINED		FOR	NOTES	1	THROUGH	9 T	ГНАТ	ARE

MAIN	HOR	IZ. В	ENDS	TEES					REDUCERS				PLUGS	& VALVES	
PIPE SIZE	90°	Y 45° 22.5° SIZE LENGTH SIZ						SIZE	LENGTI	Η					
36	142	59	28	×36 393	x30 318	×24 232	x20 165	x16 84	x12 1	X30 137	X24 247	X20 309	X16 359	4	-53
30	124	51	25	X30 333	X24 252	X20 189	X16 115	X12 23	x10 1	X24 137	X20 213	X16 276		3	391
24	106	44	21	X24 270	X20 211	X16 143	X12 61	X10 10	x8 1	X20 98	X16 178	X12 241		5	27
20	92	38	18	X20 225	X16 161	X12 85	X10 39	x8 1		X16 98	X12 176	X10 227		2	80
16	77	32	15	X16 177	X12 107	X10 65	X8 19	x6		X12 98	X10 163	X8 169		2	231
12	61	25	12	X12 127	X10 89	X8 50	x6 1			X10 88	X8 96	X6 131		1	81
10	52	22	10	X10 101	X8 64	x6 11				X8 51	X6 94	X4 125		1	53
8	44	18	9	X8 78	X6 30	x4 1				X6 54	X4 92			1	28
6	34	14	7	X6 46	×4 1					X4 50					98
4	24	10	5	x4											69

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