CONSTRUCTION PLANS

FOR

SR 64 (MANATEE AVENUE) WATER MAIN INTRACOASTAL CROSSING

MANATEE COUNTY, FLORIDA DECEMBER 2024 MANATEE COUNTY PROJECT #6093170 FINANCIAL PROJECT ID 408185-3-52-01

PROJECT TEAM:

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KIMLEY-HORN AND ASSOCIATES, INC. 200 CENTRAL AVE., SUITE 600 ST. PETERSBURG, FL 33701 CONTACT: JORDAN WALKER, P.E. 727-308-4320

SURVEYOR: RUSSELL P. HYATT, P.S.M.

NO.: 5303

HYATT SURVEY SERVICES, INC.

2012 LENA ROAD BRADENTON, FL 34211

CERTIFICATE OF AUTHORIZATION: 7203

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COMPANY

CITY OF BRADENTON

MANATEE COUNTY (IT)

MANATEE COUNTY UTILITIES

FRONTIER

MCI (VERIZON)

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FDOT UTILITY PERMIT #2024-H-194-00171

FDEP WATER GENERAL PERMIT - PENDING

ARMY CORPS OF ENGINEERS PERMIT - PENDING

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FDEP ERP PERMIT APPLICATION #41-0447073-001-EI - PENDING

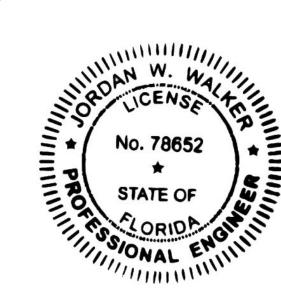
SARASOTA COUNTY





FDOT PERMIT #2024-H-194-00171 MILE POSTS 0.355-1.581





THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

JORDAN WESLEY WALKER, P.E. NO. 78652

ON THE DATE ADJACENT TO THE SEAL

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Sheet Number	Sheet Title
01	COVER SHEET
02	GENERAL NOTES
03	SUMMARY OF VERIFIED UTILITIES
04	KEY SHEET
05	PLAN AND PROFILE [103+00 - 108+00])
06	PLAN AND PROFILE [108+00 - 113+00]
07	PLAN AND PROFILE [113+00 - 118+00]
08	PLAN AND PROFILE [118+00 - 123+00]
09	PLAN AND PROFILE [123+00 - 128+00]
10	PLAN AND PROFILE [128+00 - 133+00]
11	PLAN AND PROFILE [133+00 - 138+00]
12	PLAN AND PROFILE [138+00 - 143+00]
13	PLAN AND PROFILE [143+00 - 148+00]
14	PLAN AND PROFILE [148+00 - 153+00]
15	PLAN AND PROFILE [153+00 - 158+00]
16	PLAN AND PROFILE [158+00 - 163+00]
17	PLAN AND PROFILE [163+00 - 168+00]
18	DRILL PLAN
19	MAINTENANCE OF DRILL PLAN
20	MAINTENANCE OF DRILL PLAN - LAY DOWN AREA
21	STORM WATER POLLUTION PREVENTION PLAN
22	WEST SECTION VIEWS
23	WEST SECTION VIEWS
24	EAST SECTION VIEWS
25	EAST SECTION VIEWS
26	DETAILS
27	DETAILS
28	DETAILS
29	DETAILS
30	DETAILS

SHEET LIST

THE SITE CONSTRUCTION STAKEOUT SHALL BE PERFORMED UNDER THE DIRECTION OF A FLORIDA REGISTERED SURVEYOR. AUTOCAD FILES WILL BE FURNISHED TO AID IN THE SITE CONSTRUCTION STAKEOUT. ANY DISCREPANCIES FOUND BETWEEN AUTOCAD FILES AND SITE CONSTRUCTION PLANS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR CLARIFICATION PRIOR TO THAT STAKEOUT

						DATE
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No.	REVISIONS	DATE	BY		DATE:	

ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION.

THE PROJECT MANAGER IS: ANITA WANG, P.E. AND CAN BE REACHED AT (941) 708-7450 X7220

- 2. IF THE CONTRACTOR WANTS A SITE VISIT PRIOR TO BIDDING, THESE SHALL BE ARRANGED THROUGH THE COUNTY'S PURCHASING
- 3. ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANATEE COUNTY PUBLIC WORKS STANDARDS UTILITIES STANDARDS MANUAL AND HIGHWAY & TRAFFIC STANDARDS MANUAL AND/OR FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" UNLESS OTHERWISE INDICATED ON THE PLANS
- 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 37. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND THE TRANSPORTATION OF SEDIMENT TO ARE NOT PROVIDED IN THE BID DOCUMENTS, AT NO ADDITIONAL COST TO THE OWNER.
- 5. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
- 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.
- 7. THE CONTRACTOR SHALL NOTIFY SUNSHINE 811 (1-800-432-4770) AT LEAST 2 FULL BUSINESS DAYS PRIOR TO CONSTRUCTION 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.
- 8. NO WORK, EXCEPT FOR EMERGENCY TYPE, SHALL BE PERFORMED AFTER 7:00 PM AND BEFORE 7:00 AM. FOR ADDITIONAL PROJECT RESTRAINTS, REFER TO SECTION 01310 OF THE SPECIFICATIONS.
- 9. THE CONTRACTOR SHALL 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.
- 10. THE CONTRACTOR SHALL INCLUDE IN HIS BID:DEWATERING PUMPING EQUIPMENT, PUMPS, FITTINGS, LABOR, ETC. AS NECESSARY. BASED ON METHOD AND SEQUENCE OF CONSTRUCTION TO COMPLETE ALL WORK WHILE MAINTAINING SEWER SERVICE OPERATIONS
- 11. THE CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER WITH A DETAILED CONSTRUCTION PHASING PLAN BASED ON THE CONNECTION SEQUENCING ON THE MAINTENANCE OF DRILL PLAN. FOR APPROVAL PRIOR TO BEGINNING CONSTRUCTION.
- 12. ALL PROPOSED WORK SHALL BE COORDINATED WITH MANATEE COUNTY UTILITIES DEPARTMENT AT LEAST TWO WEEKS IN ADVANCE OF PROPOSED CONSTRUCTION.
- 13. THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS CONFORMING TO MANATEE COUNTY'S LATEST STANDARDS, TO THE ENGINEER FOR REVIEW OF ALL PIPE CONNECTIONS, TRANSITIONS, AND SPECIAL APPURTENANCES PRIOR TO FABRICATION OR DELIVERY TO
- 14. UNLESS OTHERWISE INDICATED OR APPROVED, ALL BELOW GROUND DUCTILE IRON PIPE SHALL HAVE PUSH-ON OR MECHANICAL JOINTS, AND ALL ABOVE GROUND DUCTILE IRON PIPE SHALL HAVE FLANGED JOINTS. ALL JOINTS SHALL BE FULLY RESTRAINED PER
- 15. WATER MAINS CROSSING OVER OR UNDER SANITARY SEWERS AND FORCE MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18" BETWEEN THE INVERT 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.
- EXTERIOR LINING AS NOTED IN MANATEE COUNTY APPROVED PRODUCTS LIST.
- 17. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SECURE PROPERTY FOR STAGING MATERIALS AND EQUIPMENT.
- 18. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ACQUIRE, OR ENTER INTO AGREEMENTS, FOR LANDS FOR LAY DOWN AREAS AND STAGING. THE COUNTY WILL COORDINATE AND ADVISE, TO HELP IDENTIFY POSSIBLE PARCELS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE NEEDED AREAS. AND THE COUNTY TAKE NO RESPONSIBILITY FOR DELAYS IN THIS REGARD.
- 19. COORDINATION AND PUBLIC INFORMATION FOR AND WITH AREA RESIDENTS ARE OF THE UTMOST IMPORTANCE. CONTRACTOR WILL <u>UTILITIES</u> ENSURE 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 THIS REGARD, AS REPRESENTED ONSITE BY THE COUNTY INSPECTOR AND ENGINEER'S STAFF.
- 20. ALL ELEVATIONS ARE NAVD88 DATUM

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE FLORIDA TRENCH SAFETY ACT. 90-96, LAWS OF FLORIDA EFFECTIVE OCTOBER 1, 1990 AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 29 CFR 1926.650, SUBPART P, AS AMENDED. THE CONTRACTOR SHALL INCLUDE IN THE TOTAL BID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS.
- 22. THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO
- 23. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
- 24. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THESE EXCLUSIONS DO NOT RELIEVE THE CONTRACTOR FROM PROVIDING ANY REQUIRED SAFETY EQUIPMENT, SUPPLIES, OR APPARATUS AS NEEDED TO EXECUTE THE WORK EFFECTIVELY AND SAFELY AS OUTLINED IN THE PLANS AND SPECIFICATIONS. THE CONTRACTOR ACCEPTS ANY AND ALL LIABILITY FROM THE CONTRACTOR'S FAILURE TO PROVIDE A SAFE WORK ENVIRONMENT.

- WHEN A BENTONITE SPILL OR FRAC-OUT OCCURS OR THERE IS A LOSS OF RETURN INDICATING EXCESSIVE SEEPAGE OR LOSS OF DRILLING FLUID, DRILLING MUST BE STOPPED UNTIL THE LOCATION OF THE SPILL IS IDENTIFIED. UNDER NO CIRCUMSTANCES WILL DRILLING CONTINUE WHEN A SPILL IS APPARENT.
- 26. ONCE LOCATED, THE BENTONITE SPILL MUST BE ISOLATED AND SEEPAGE INTO ANY NEARBY WATER BODIES WILL BE BLOCKED DEPENDING ON THE DEGREE OF THE SPILL, THE ISOLATED BENTONITE MUST BE REMOVED MANUALLY OR MECHANICALLY AND DISPOSED OF BY APPROPRIATE MEANS OR REUSED.
- 27. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY STORM WATER, EROSION, AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE FDEP "FLORIDA STORM WATER FROSION 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.
- 28. 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)
- 29. STORM WATER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, 57. ALL DISTURBED GRASSED AREAS SHALL BE SODDED UNLESS OTHERWISE INDICATED. THE TYPE OF SOD USED TO REPLACE OWNER 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.
- 30. SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OR PREVENT THE TRANSPORT OF SEDIMENT ONTO ADJACENT PROPERTIES, OR INTO EXISTING BODIES OF WATER, MUST BE INSTALLED, CONSTRUCTED, OR IN THE CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS. SUCH SYSTEMS SHALL BE FULLY OPERATIVE BEFORE ANY OTHER DISTURBANCE OF THE SITE BEGINS. EARTHEN STRUCTURES INCLUDING BUT NOT LIMITED TO BERMS, EARTH FILTERS, DAMS OR DIKES SHALL BE STABILIZED AND PROTECTED FROM DRAINAGE DAMAGE OR EROSION WITHIN ONE (1) WEEK OF INSTALLATION.
- 31. ALL SWALES, DITCHES, AND CHANNELS LEADING FROM THE SITE SHALL BE PROTECTED FROM SILTATION AND EROSION DURING CONSTRUCTION AND BE SODDED WITHIN THREE (3) DAYS OF EXCAVATION.

REVISIONS

- 32. SOIL DISPLACED BY CONSTRUCTION WILL BE REMOVED. EROSION CONTROL SHALL BE IMPLEMENTED IN AREAS WHICH ARE CONSIDERED ENVIRONMENTALLY SENSITIVE. EROSION CONTROL SYSTEMS SHALL BE REQUIRED FOR ALL WORK WITHIN JURISDICTIONAL AREAS. THESE SYSTEMS MAY INCLUDE STAKED HAY BALES, SILT SCREENS. FILTER FABRIC. AND TURBIDITY
- 33. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.

DATE BY

- SITE, ALL WORK IN THE VICINITY OF OPEN WATER AND/OR WETLANDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL REGULATIONS AND/OR PERMITS FOR THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES RESULTING FROM HIS VIOLATION OF ANY REGULATIONS OR PERMIT CONDITIONS.
- 35. CONTRACTOR SHALL PROVIDE PROTECTIVE MATTING, FUEL CONTAINMENT AND ALL OTHER MATERIALS, EQUIPMENT AND LABOR TO PROTECT THE STAGING AREA DURING CONSTRUCTION.
- 3. CONTRACTOR SHALL, PRIOR TO BEGINNING CONSTRUCTION, SUBMIT A "FUELING SPILL PREVENTION PLAN" THAT SHALL CLEARLY INDICATE HOW FUEL SPILLS WILL BE PREVENTED WHEN FUELING BOTH WITHIN AND OUTSIDE OF THE STAGING AREA.
- PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION
- SURFACE DRAINS AND OUTFALLS USING BEST MANAGEMENT PRACTICES. REFER TO CONSTRUCTION PLANS, DETAILS, SPECIFICATIONS AND APPROVED PERMITS FOR DETAILS. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH ONE HALF THE HEIGHT ON AN EROSION DEVICE OR AS DIRECTED BY THE ENGINEER.
- 38. DURING THE CONSTRUCTION OF DRAINAGE STRUCTURES, AND OTHER STRUCTURES REQUIRING EXCAVATION, THE CONTRACTOR SHALL PLACE APPROVED BARRIERS OR OTHER APPROVED DEVICES AROUND SUCH STRUCTURES TO PREVENT EROSION AND THE

 69. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS MIGRATION OF SEDIMENT TO POINTS OUTSIDE THE CONSTRUCTION AREA. THE APPROVED BARRIERS OR OTHER APPROVED DEVICES SHALL BE PLACED IN ACCORDANCE WITH REQUIREMENTS OF FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL, 2008, STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, LATEST EDITION OR AS DIRECTED BY THE ENGINEER.
- eta . REQUIRED EROSION CONTROL MEASURES MUST REMAIN INTACT THROUGHOUT CONSTRUCTION. FAILURE TO INSTALL OR PROPERLY MAINTAIN REQUIRED EROSION CONTROL WILL RESULT IN ENFORCEMENT ACTION. ALL EROSION CONTROL MEASURES, SAND, SILT, AND DEBRIS SHALL BE REMOVED FROM ALL DRAINAGE PIPES AND STRUCTURES AFTER CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO COUNTY FINAL WALK-THROUGH.
- 40. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SILT/TURBIDITY BARRIERS TO CONTROL EROSION AND SEDIMENT FROM TAKING 73. ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PROJECT LIMITS (INCLUDING LIMITS OF WORK PLACE OUTSIDE THE PROJECT LIMITS. THE SILT/TURBIDITY BARRIERS SHALL BE PLACED IN ACCORDANCE WITH REQUIREMENTS OF FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL. CURRENT EDITION. THROUGHOUT THE DURATION OF THE PROJECT AND ALL ASPECTS OF CONSTRUCTION, ALL DAMAGED OR INEFFECTIVE EROSION CONTROL DEVICES SHALL BE REPLACED AT NO ADDITIONAL COST TO THE COUNTY.
- 41. EROSION CONTROL PLAN THE EROSION CONTROL PLAN IS FOR GENERAL GUIDANCE. CONTRACTOR SHALL PROVIDE AN EROSION CONTROL PLAN THAT IS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REPRESENTING THE CONTRACTOR FOR REVIEW AND APPROVAL BY THE COUNTY AND THE PERMITTING AGENCY. ANY MODIFICATIONS TO THIS PLAN MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REPRESENTING THE CONTRACTOR. THESE MODIFICATIONS MUST BE APPROVED BY THE COUNTY AND THE PERMITTING AGENCY. NO CONTRACT DELAYS WILL BE ALLOWED FOR SUCH MODIFICATIONS OR APPROVALS.

- . ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE PERICO ISLAND/HOLMES BEACH/FDOT/MANATEE COUNTY RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
- 43. 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
- 44 THE CONTRACTOR PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC MUST OBTAIN A RIGHT-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD PLANS FOR ROAD CONSTRUCTION MAINTENANCE OF TRAFFIC" INDEX 102-600 THROUGH 102-680. A TRAFFIC CONTROL PLAN SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING, PER SPECIFICATIONS 01570.
- 45. 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, OR APPLICABLE JURISDICTION.
- 16. ALL BELOW-GRADE FITTINGS 4-INCHES AND GREATER IN DIAMETER SHALL BE MECHANICAL JOINT DUCTILE IRON WITH INTERIOR AND 46. 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.
 - WILL BE IN PASSABLE CONDITION AT THE END OF THE WORK DAY AND FULLY RESTORED PER SECTION 02575.
 - 48. A RIGHT OF ENTRY AGREEMENT SHALL BE OBTAINED BY THE CONTRACTOR FROM THE PROPERTY OWNER BEFORE ANY CONSTRUCTION IS DONE OUTSIDE OF THE RIGHT-OF-WAY OR EASEMENT.

- 49. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA AND WHICH HAVE NOT BEEN LOCATED OR IDENTIFIED, MAY NOT BE IN THE EXACT LOCATION SHOWN OR RELOCATED SINCE THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES STRUCTURES AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) THAT MAY AFFECT HIS WORK. ALL EXISTING UTILITIES TO BE EXTENDED. CROSSED OR CONNECTED TO 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
-). THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, MAIL BOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR FACILITY IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED ITEM DUE TO HIS CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER THAN PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
- 51. THE CONTRACTOR SHALL USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED OR OFFERED BY FLORIDA POWER AND FDOT NOTES LIGHT TO PREVENT UNDERMINING OF POWER POLES DURING CONSTRUCTION. IF HOLDING OF POWER POLES IS RECOMMENDED OR ALL WORK PERFORMED WITHIN THE FDOT R/W SHALL CONFORM TO: REQUIRED BY THE UTILITY. THE CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE UTILITY AND BEAR ALL RELATED COST
- 52. ANY TEMPORARY SHUTDOWNS FOR MODIFICATIONS OF EXISTING UTILITY SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTION SHALL BE KEPT TO A MINIMUM AND SHALL BE COORDINATED WITH AND APPROVED BY THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. IT IS NOTED THAT TEMPORARY SHUTDOWNS MAY BE RESTRICTED TO CERTAIN HOURS AT ANY TIME OF THE DAY OR NIGHT AND WILL BE COMPLETED AT NO ADDITIONAL COST TO THE OWNER.
- 53. ALL MAINS TO BE ABANDONED IN PLACE SHALL BE GROUTED PER THE SPECIFICATIONS.
- 54. THE ELEVATIONS OF THE UTILITY SERVICES AND LATERALS HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL ANTICIPATED SOIL COVERAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE PROPOSED FORCE MAIN AND WATER MAIN. CONTRACTOR TRAFFIC CONTROL NOTES SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT FORCE MAIN CONSTRUCTION. THE COST OF UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH THE CONSTRUCTION OF THE PROPOSED FORCE MAIN. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO AFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.
- 5. ALL VALVES, ARVS, MANHOLES, BLOW-OFF ASSEMBLIES, METER ASSEMBLIES, AND FIRE HYDRANTS, WITHIN PROJECT AREA, SHALL REMAIN ACCESSIBLE AT ALL TIMES AND BE ADJUSTED TO FINAL GRADE.

- 6. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS
- MAINTAINED AREAS IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER. 58. ALL CONCRETE THRUST BLOCKS INSTALLED FOR TESTING PURPOSES AND NOT REQUIRED FOR THE OPERATION OF THE PIPELINE
- 59. ASPHALT DRIVES THAT ARE CUT SHALL BE RESTORED PER SECTION 02513.
- CONCRETE DRIVEWAYS OR SIDEWALKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO THE 2020-2021 EDITIONS OF THE F.D.O.T. STANDARD PLANS FOR ROAD CONSTRUCTION CONCRETE SIDEWALK AND DRIVEWAYS INDEX 522-001 THROUGH 522-003

SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR, PRIOR TO FINAL ACCEPTANCE, AT NO ADDITIONAL COST TO THE

- . WHENEVER A PERMANENT ROADWAY SURFACE IS NOT REPLACED IMMEDIATELY AFTER BACKFILLING AND COMPACTION OF THE NEWLY INSTALLED PIPE LINE IN AREAS WHERE TRAFFIC MUST PASS, THE CONTRACTOR SHALL INSTALL A TEMPORARY SURFACE CONSISTING OF NINE INCHES OF COMPACTED LIME ROCK BASE AND A COAT OF ASPHALT EMULSION, PERMANENT ROADWAY REPAIR SHALL BE PERFORMED A MAXIMUM OF TWENTY-ONE CALENDAR DAYS AFTER THE INITIAL OPEN CUTTING
- 62. RESTORATION OF CURBS, DRIVEWAYS, SIDEWALKS, AND PLACEMENT OF SOD SHALL BE AS SOON AS THE CONTRACTOR HAS COMPLETED WORK IN THE AREA OF IMPACT. RESTORATION SHALL BE COMPLETED NO MORE THAN 10 DAYS FROM COMPLETION OF CONSTRUCTION IN THE AREA OF IMPACT
- 63. ALL EXISTING FENCES DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AND REINSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER UNLESS SHOWN TO BE REMOVED ON CONSTRUCTION PLANS.

34. THE CONTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER WETLAND AREAS THAT MAY BE ON OR NEAR THE CONSTRUCTION 64. WHERE CONCRETE REPAIRS ARE NECESSARY AND EXPANSION OR CONTRACTION JOINTS ARE PRESENT, CONTRACTOR SHALL REMOVE AND REPLACE CONCRETE UP TO THE NEXT EXPANSION OR CONTRACTION JOINT.

- 65. ALL EXISTING WATER/WASTEWATER INFRASTRUCTURE INCLUDING, BUT NOT LIMITED TO, WATER METER BOXES, FIRE HYDRANTS, AND VALVE BOXES SHALL BE ADJUSTED TO FINAL GRADE
- 66. PROPOSED FILL SHALL BE CLEAN FILL, FREE OF DEBRIS AND TOXIC OR DELETERIOUS SUBSTANCES.

- 67. THE EXHAUST SYSTEM OF ALL GASOLINE AND DIESEL ENGINES SHALL BE EQUIPPED WITH MUFFLERS THAT MEET THE EQUIPMENT MANUFACTURER'S REQUIREMENTS FOR NOISE SUPPRESSION. THE CONTRACTOR SHALL INSTALL NOISE ABATEMENT BAFFLES POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES.
- 68. NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEPT DAILY AS PART OF DAILY CLEAN UP.
- 70. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.

71. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OR TRIMMING OF ANY TREE WITHIN THE CONSTRUCTION AREA.

- 72. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM.
- BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS AND PROFILES.
- 74. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.
- 75. ALL FITTINGS FOR PRESSURE CLASS-RATED PIPE SHALL BE RESTRAINED DUCTILE IRON. FITTINGS AND PIPE JOINTS SHALL BE RESTRAINED PER THE DETAILS IN THE PLANS.
- 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.
- 77. 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.
- 78. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES AND PUMP STATIONS ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
- 79. CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC).
- 80. 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
- 81. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.
- 82. 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
- 47. THE CONTRACTOR SHALL COORDINATE THE CUTTING OF DRIVEWAYS WITH THE PROPERTY OWNER PRIOR TO CUT. ALL DRIVEWAYS 83. THE MCUD OFFICE OF INDUSTRIAL COMPLIANCE WILL DETERMINE WHETHER A LETTER OF APPROVAL, A DISCHARGE AUTHORIZATION, OR A DISCHARGE PERMIT IS REQUIRED.
 - 84. FOR SITES SUSPECTED OF CONTAMINATED GROUNDWATER MANATEE COUNTY WILL REQUIRE AN APPLICANT TO DEMONSTRATE THAT THE DISCHARGE MEETS THE MANATEE COUNTY SEWER USE ORDINANCE.
 - 85. 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. SERVICES WILL BE REPLACED FROM THE CORP STOP TO THE METER.
 - 86. THE CONTRACTOR, PRIOR TO ANY TEMPORARY SHUT-OFFS OR BOIL WATER NOTICES DURING TIE-IN, ETC., SHALL NOTIFY THE AFFECTED RESIDENTS BY POSTING INFORMATIONAL SIGNS IN THE NEIGHBORHOOD AT LEAST TWO DAYS (48 HRS) PRIOR TO THE SHUT-OFF OR BOIL WATER NOTICE, 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 THE SHUT-OFF OR BOIL WATER NOTICE REFERENCE SECTION 01580, PARAGRAPH 1.05 OF THE SPECIFICATIONS, 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 SENT TO THE 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

- FDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION (FY 2023-24) (A.K.A. STANDARD SPECS).
- FDOT DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND OPERATIONS ON THE STATE HIGHWAY SYSTEM, (FY 2023-24), (A.K.A. STANDARD INDEX). COMPLIANCE WITH ALL APPLICABLE INDICES IS REQUIRED.
- 3. 2023 FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN MANAUAL.

6. LANE CLOSURE MAY NEED TO BE ALTERED DEPENDING ON THE AREA THE WORK IS TAKING PLACE.

- 4. FLORIDA DEPARTMENT OF TRANSPORTATION FLEXIBLE PAVEMENT DESIGN MANUAL FOR NEW CONSTRUCTION AND PAVEMENT REHABILITATION, JANUARY 2023.
- 5. ALL TRAFFIC STRIPES AND MARKINGS ARE TO BE LEAD FREE, NON-SOLVENT BASED THERMOPLASTIC. THE PERMITTEE SHALL FURNISH THE DEPARTMENT WITH THE MANUFACTURER'S CERTIFICATION THAT THE THERMOPLASTIC IS "LEAD FREE".

- TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH F.D.O.T. LATEST DESIGN STANDARDS NO. 102-600, 102-603, 102-605, 102-611,
- 102-612, 102-613, 102-616 AND 102-660 DEPENDING ON THE OPERATION BEING PERFORMED. FOR ALL TWO-LANE WORK, TWO-WAY, WORK WITHIN TRAVEL LANE UTILIZE INDEX 102-603
- FOR ALL TWO-LANE WORK, TWO-WAY, WORK NEAR INTERSECTION UTILIZE INDEX 102-605. FOR ALL MULTILANE WORK OUTSIDE SHOULDER UTILIZE INDEX 102-611.
- FOR ALL MULTILANE WORK ON SHOULDER UTILIZE INDEX 102-612.
- FOR ALL MULTILANE WORK WITHIN TRAVEL WAY MEDIAN OR OUTSIDE LANE UTILIZE INDEX 102-613. FOR ALL MULTILANE WORK NEAR INTERSECTION MEDIAN OR OUTSIDE LANE UTILIZE INDEX 102-616.
- FOR PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALK, UTILIZE INDEX 102-660.
- 2. CONTRACTOR TO COORDINATE WITH FDOT FOR ALL WORK DONE ON A STATE FACILITY
- 3. TO AVOID DISRUPTION DUE TO INCLEMENT WEATHER, THE CONTRACTOR SHOULD PERFORM ANY MILLING AND PAVING OPERATIONS DURING THE SAME WORK PERIOD.
- 4. ALL EXISTING PAVEMENT MARKINGS OUTSIDE THE CONSTRUCTION LIMITS THAT HAVE BEEN ALTERED BECAUSE OF CONSTRUCTION OPERATIONS SHALL BE REPLACED UPON THE COMPLETION OF THE PROJECT AT THE CONTRACTORS EXPENSE.
- LANE CLOSURES SHALL OCCUR BETWEEN 9:00 P.M. AND 5:00 A.M., UNLESS LANE CLOSURE CALCULATIONS ARE PROVIDED AND APPROVED OR APPROVAL IS GRANTED BY THE DISTRICT PERMIT ENGINEER. THE CONTRACTOR SHALL SCHEDULE WORK OPERATIONS SO THAT ALL LANES CAN BE RE-OPENED TO TRAFFIC WITHIN A PERIOD OF 24 HOURS IN CASE OF AN EMERGENCY
- PEDESTRIANS, BICYCLES, AND WHEELCHAIRS:
- AT THE END OF EACH WORKDAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP-OFF ADJACENT TO SIDEWALK SHALL BE BACKFILLED AT A SLOPE NOT TO EXCEED 1:4, OR SHALL BE PROTECTED IN ACCORDANCE WITH DESIGN
- 7. PEDESTRIAN AND WHEELCHAIR TRAFFIC SHALL BE ACCOMMODATED UTILIZING STANDARD INDEX 102-660.

- 8. ONE PORTABLE VARIABLE MESSAGE SIGN SHALL BE USED IN ADVANCE OF EACH LANE CLOSURE. THE FOLLOWING ARE SUGGESTED MESSAGES TO USE IN THE APPROPRIATE SITUATIONS:
- MESSAGE 1 "RIGHT" OR "CENTER" OR "LEFT" "LANE" "LANE" "LANE"

"CLOSED" "CLOSED" "CLOSED"

- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF STORMWATER FROM ROADWAYS UTILIZED FOR TRAFFIC CONTROL IN A MANNER APPROVED BY THE ENGINEER.
- 10. AT THE END OF EACH WORKING DAY'S ACTIVITY, TEMPORARY PAVEMENT MARKINGS AND TEMPORARY RPM'S SHALL BE INSTALLED PRIOR TO OPENING THE LANES UP FOR TRAFFIC
- 11. ALL PAVEMENT MARKINGS, SIGNS, MARKERS, CHANNELIZATION REQUIRED TO PHASE WORK OR SHIFT TRAFFIC, SHALL UTILIZE
- 12. THE CONTRACTOR SHALL RESTRICT THE OPERATIONS SO THAT THE FIRST LIFT OF ASPHALT IS PLACED ON THE SAME DAY THAT THE LANES ARE MILLED, BEFORE OPENING THE LANES TO TRAFFIC. INSTALL TEMPORARY PAVEMENT MARKINGS AFTER THE FIRST LIFT
- 13. MILLING AND RESURFACING SHALL BE ACCOMPLISHED DURING THE OFF-PEAK HOURS.
- ZONE TRAFFIC CONTROL) THAT ARE POTENTIALLY AFFECTED DURING VARIOUS PHASES OF CONSTRUCTION. COORDINATE ALL SIGNAL RETIME EFFORTS MUKUNDA GOPLALAKRISHNA, P.E., PTOE, COUNTY TRAFFIC ENGINEER, AT 941-749-3500, EXT. 7813.
- 15. CONTRACTOR TO MAINTAIN VEHICLE DETECTION IN OPERATION FOR LANES THAT WILL REMAIN OPEN. CONTRACTOR TO COORDINATE ALL VEHICLE DETECTION ISSUES WITH AARON BURKETT OF MANATEE COUNTY AT 941-708-7509 OR AARON.BURKETT@MYMANATEE.ORG
- 16. MAINTENANCE OF TRAFFIC AND ANY SIGNAL RETIMING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 17. ANY SIGNAL RETIMING REQUIRED FOR THE INTERSECTIONS IMPACTED BY THE PROJECT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. SIGNAL TIMING MODIFICATIONS TO BE SUBMITTED TO MANATEE COUNTY TRAFFIC DESIGN, ATTENTION MR. MUKUNDA GOPALAKRISHNA FOR REVIEW AND APPROVAL AT LEAST 15 WORKING DAYS BEFORE PROPOSED CHANGES. THIS DOES NOT GOVERN EMERGENCY SITUATIONS. PENDING THE APPROVAL OF THE ENGINEER.
- 18. A DETAILED MAINTENANCE OF TRAFFIC PLANS ARE TO BE SUBMITTED TO MANATEE COUNTY AND THE ENGINEER, BY THE CONTRACTOR, FOR REVIEW AND APPROVAL A MINIMUM OF 21 WORKING DAYS PRIOR TO PROPOSED IMPLEMENTATION.
- 19. PRIOR TO COMMENCING WORK, CONTRACTOR SHALL RECEIVE APPROVAL FOR A COUNTY RIGHT-OF-WAY PERMIT. CONTACT MATT MERUCCI AT MATT.MERUCCI@MYMANATEE.ORG OR 941-708-7450 EXT 7342 FOR PERMIT APPLICATION. PERMIT FEES WILL BE WAIVED FOR ALL COUNTY CAPITAL IMPROVEMENT PROJECTS.
- 20. THE CONTRACTOR SHALL MAINTAIN TEMPORARY VEHICLE DETECTION ON ALL APPROACHES THROUGHOUT CONSTRUCTION UNTIL MANATEE COUNTY ACCEPTS THE PROJECT. ANY DAMAGE TO THE EXISTING DETECTION SYSTEM AT AN INTERSECTION MUST BE RESTORED WITHIN TWENTY-FOUR (24) HOURS AT NO ADDITIONAL COST TO THE COUNTY. MANATEE COUNTY TRAFFIC OPERATIONS DIVISION WILL ASSIST AS NEEDED WHENEVER POSSIBLE.
- 21. THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR THE SIGNAL MAINTENANCE, TIMING AND OPERATION OF ANY AND ALL SIGNALS AND SIGNAGE FROM THE COMMENCEMENT TO THE ACCEPTANCE OF THE PROJECT (I.E.: EXISTING LOOPS CUT. SYSTEM COMMUNICATION TERMINATED, LANE OR PAVEMENT MODIFICATIONS, PEDESTRIAN MODIFICATIONS, TRAFFIC SIGNAL SCHOOL FLASHER, WARNING FLASHER, ROADWAY LIGHTING, COUNT STATIONS, AND ANY OTHER TRAFFIC RELATED DEVICE LOCATED WITHIN THE CONSTRUCTION ZONE). MANATEE COUNTY WILL ASSIST IN PROVIDING EXISTING SYSTEM TIMES WHEN POSSIBLE.

- COORDINATE ALL LIFT STATION SHUT DOWNS WITH NICK WAGNER, 941-792-8811 X 5377 OR NICK.WAGNER@MYMANATEE.ORG
- 2. CONTRACTOR SHALL ABIDE BY ALL CITY OF BRADENTON BEACH REGULATIONS AND RULES TO INCLUDE, BUT NOT LIMITED TO, WORK HOURS, CITY HOLIDAYS, NOISE REGULATIONS, TRAFFIC CONTROL, AND PROPERTY ACCESS, ANY VARIATION FROM THESE STANDARDS MUST BE APPROVED IN WRITING BY THE CITY OF BRADENTON BEACH IN ADVANCE. CONTRACTOR SHALL APPLY FOR A RIGHT-OF-WAY PERMIT WITH THE CITY OF BRADENTON BEACH PRIOR TO STARTING CONSTRUCTION.
- 3. CONTRACTOR SHALL MAINTAIN VEHICULAR/PEDESTRIAN TRAFFIC ACCESS TO COMMERCIAL PROPERTIES AND ASSOCIATED PARKING LOTS, AND TO RESIDENTIAL PROPERTIES DURING CONSTRUCTION.
- 4. CONTRACTOR SHALL COORDINATE DIRECTLY WITH THE COUNTY PUBLIC OUTREACH MANAGER AND APPROVED COUNTY CONSULTANTS TO ADDRESS ANY COMPLAINTS.
- . DOOR HANGERS SHALL BE PROVIDED TO ALL NEIGHBORS/BUSINESSES AFFECTED BY CONSTRUCTION AT LEAST 48 HOURS IN ADVANCE. DOOR HANGERS SHALL PROVIDE INFORMATION ON ESTIMATED DAYS OF IMPACT AND MITIGATION EFFORTS.

<u>ABBF</u>	<u>REV</u>	<u>/IATIONS</u>	PVC	-	POLYVINYL CHLORIDE
			ST	-	STORM DRAIN
RJ	-	RESTRAINED JOINT	EX.	-	EXISTING
R/W	-	RIGHT-OF-WAY	BT	-	BURIED TELEPHONE
HDD	_	HORIZONTAL DIRECTIONAL DRILL	SS	-	SANITARY SEWER
RCP	-	REINFORCED CONCRETE PIPE	FM	-	FORCE MAIN
ARV	_	AIR RELEASE VALVE	WM	-	WATER MAIN
HDPE	-	HIGH DENSITY POLYETHYLENE	RW	-	RECLAIM WATER MAIN
			ECP	-	ELLIPTICAL CONCRETE

KIMLEY HORN LEGEND PROPOSED WATER MAIN — FX_OVERHEAD_FLECTRIC FDOT BRIDGE IMPROVEMENTS EX. BURIED ELECTRI EX. FORCE MAIN EX. ABANDONED FORCEMAI WETLAND DELINEATION EX. WATER MAIN PROPOSED SILT FENCE EX. BURIED FIBER OPTICS PROPOSED TRENCH DEPTH EX. BURIED TELEPHONE/FIBER EX. WATER METER

EX. WATER VALVE

EX. FIRE HYDRANT

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PHONE: 727-547-3999

WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT 148400098 DATE DECEMBER 2024 SCALE AS SHOWI DESIGNED BY JWW

DRAWN BY

CHECKED BY

SR 64 (MANATEE AVENUE) WATER MAIN INTRACOASTAL CROSSING MANATEE COUNTY

JORDAN W. WALKER, P.E. FL LICENSE NUMBER

LICENSED PROFESSIONAL

GENERAL NOTES

SHEET NUMBER

FL DATE:

EX. BURIED TV

SUMMARY OF VERIFIED UTILITIES UTILITY DESCRIPTION SURVEY LINE SR 64 EXISTING GROUND TOP SIZE MATERIALS Vvh # COMMENTS ELEVATION (Owner, Type) ELEVATION STATION OFFSET LT/RT MANATEE COUNTY, STREET LIGHT 2.5" 108+66.36 5.01' 2.60' DIRECT BURIED STREET LIGHT TH101 UNKNOWN 26.82 LT TH102 UNKNOWN 2" PVC 108+67.55 37.51 LT 4.60' 3.45 NOT TONEABLE / SIGNAL FADE / CUT LINE 4" TECO PEOPLES GAS, GAS POLY 108+67.40 40.97 LT4.51' 3.26' TH103 2" 108+71.02 4.29' NOT TONEABLE / SIGNAL FADE / CUT LINE UNKNOWN PVC 47.19 LT -0.12' TH104 FLORIDA POWER & LIGHT, ELECTRIC 6" TH105 PVC 108+71.56 47.96 LT 4.28' 0.36' 3" 59.71 SPECTRUM, FIBER OPTIC CABLE (X2) PVC 108+70.36 LT 3.88' 1.06 -0.80' FRONTIER, TELEPHONE UNKNOWN UNKNOWN 108+66.22 22.73 LT 5.20' TH107 2" 4.10' 2.31' SIZE AND MATERIAL NEV TELEPHONE UNDER SIDEWALK, ELECTRONIC DEPTH ONLY UNKNOWN, WATER LINE / IRRIGATION LINE PVC 108+64.63 37.46 RT TH108 FRONTIER, TELEPHONE + FIBER OPTIC CABLE 2-4" PVC 108+62.93 59.56 RT2.34' 0.31' MANATEE COUNTY, WATER UNKNOWN CIP 108+63.80 67.26 2.25 -1.20' RT MANATEE COUNTY, WATER 16" DIP 119+75.93 12.70' 9.02' TH111 29.46 RT FRONTIER, FIBER OPTIC CABLE 4" 4.67' CIP 119+66.68 RT 0.47' 59.44 TH112 6" TH113 FLORIDA POWER & LIGHT, ELECTRIC PVC 119+64.70 72.33 LT 3.76' 0.48' FRONTIER, TELEPHONE + FIBER OPTIC CABLE 4" CIP 119+53.44 3.28' 2.28' 67.41 RT TH114 6" 5.15 0.26' TECO PEOPLES GAS, GAS CIP 116+42.35 52.13 LTTH115 4" 2.23' LT 8.39' TH116 SPECTRUM, FIBER OPTIC CABLE POLY 118+93.65 54.68 4" SPECTRUM, FIBER OPTIC CABLE 1.83' PVC 155+34.45 138.88 LT3.08' TH117 3" TH118 UNKNOWN PVC 153+59.37 53.52 LT6.48' 5.36' NOT TONEABLE / SIGNAL FADE / CUT LINE MANATEE COUNTY, ELECTRIC 1.5" 153+52.13 38.44 LT 11.65 8.34' TH119 PVC 1" + 0.25"153+51.97 34.08 LT 12.62' DIRECT BURIED CABLE UNKNOWN TH120 UNKNOWN, CABLE PVC 11.63' FLORIDA POWER & LIGHT , ELECTRIC SIZE NFV UNKNOWN ELECTRIC, ELECTRONIC DEPTH ONLY TH121 UNKNOWN UNKNOWN 154+71.27 52.25 LT7.54' -2.46' FLORIDA POWER & LIGHT, ELECTRIC 12" POLY 155+18.86 50.23 LT8.17' 2.67' TH122 MANATEE COUNTY, ELECTRIC 1.5" POLY 154+14.92 12.88 9.79' TH123 26.39 RT FDOT, FIBER OPTIC CABLE 1.5" POLY 154+13.27 RT 12.87 9.73' TH124 26.73 153+40.80 MANATEE COUNTY, WATER 16" TH125 CIP62.6 RT7.74' 2.18' TH126 FRONTIER, TELEPHONE + FIBER OPTIC CABLE 28" CONCRETE CASING 153+41.76 74.17 RT 6.01' 2.88' FRONTIER, FIBER OPTIC CABLE 3" CIP152+39.07 87.02 3.04' 1.42' TH127 RT MANATEE COUNTY, WATER 16" 160+89.15 3.52' 0.46 CIP60.27 RT FRONTIER, TELEPHONE + FIBER OPTIC CABLE (X2) PVC 160+89.49 55.56 RT 4.07' 1.49 1.75" | ASBESTOS CONCRETE | 160+90.27 49.03 RT 4.67' TH130 UNKNOWN 2.75' NOT TONEABLE / SIGNAL FADE / CUT LINE FDOT, FIBER OPTIC CABLE 1.5" POLY 160+90.37 40.33 RT 5.04' -0.10' TH132 SPECTRUM, FIBER OPTIC CABLE (X2) 2.5" 4.96 PVC 160+88.56 116.49 LT1.81' MANATEE COUNTY, ELECTRIC 1.5" 5.26 2.11' PVC 160+90.46 73.58 LTTH134 TECO PEOPLES GAS, GAS 4" POLY 160+90.28 66.98 LT 5.06' 1.49 0.25" 5.60' FRONTIER, TELEPHONE UNKNOWN 6.25 TH135 193+83.45 71.23 LT

NOTE: INFORMATION PROVIDED ON THIS SHEET BASED ON SUE & SURVEY BY CUMBEY & FAIR, INC. AS OBTAINED FROM FDOT FPID 408185-3-52-01 PHASE III PLANS DATED SEPTEMBER 2022

No.	REVISIONS	DATE	BY	

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200 CENTRAL AVENUE, SUITE 600, ST. PETERSBURG, FL 33701

PHONE: 727-547-3999

WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT
148400098

DATE
DECEMBER 2024

SCALE AS SHOWN
DESIGNED BY JWW
DRAWN BY ALC

CHECKED BY

SR 64 (MANATEE AVENUE) WATER MAIN
INTRACOASTAL CROSSING
MANATEE COUNTY

JORDAN W. WALKER, P.E.

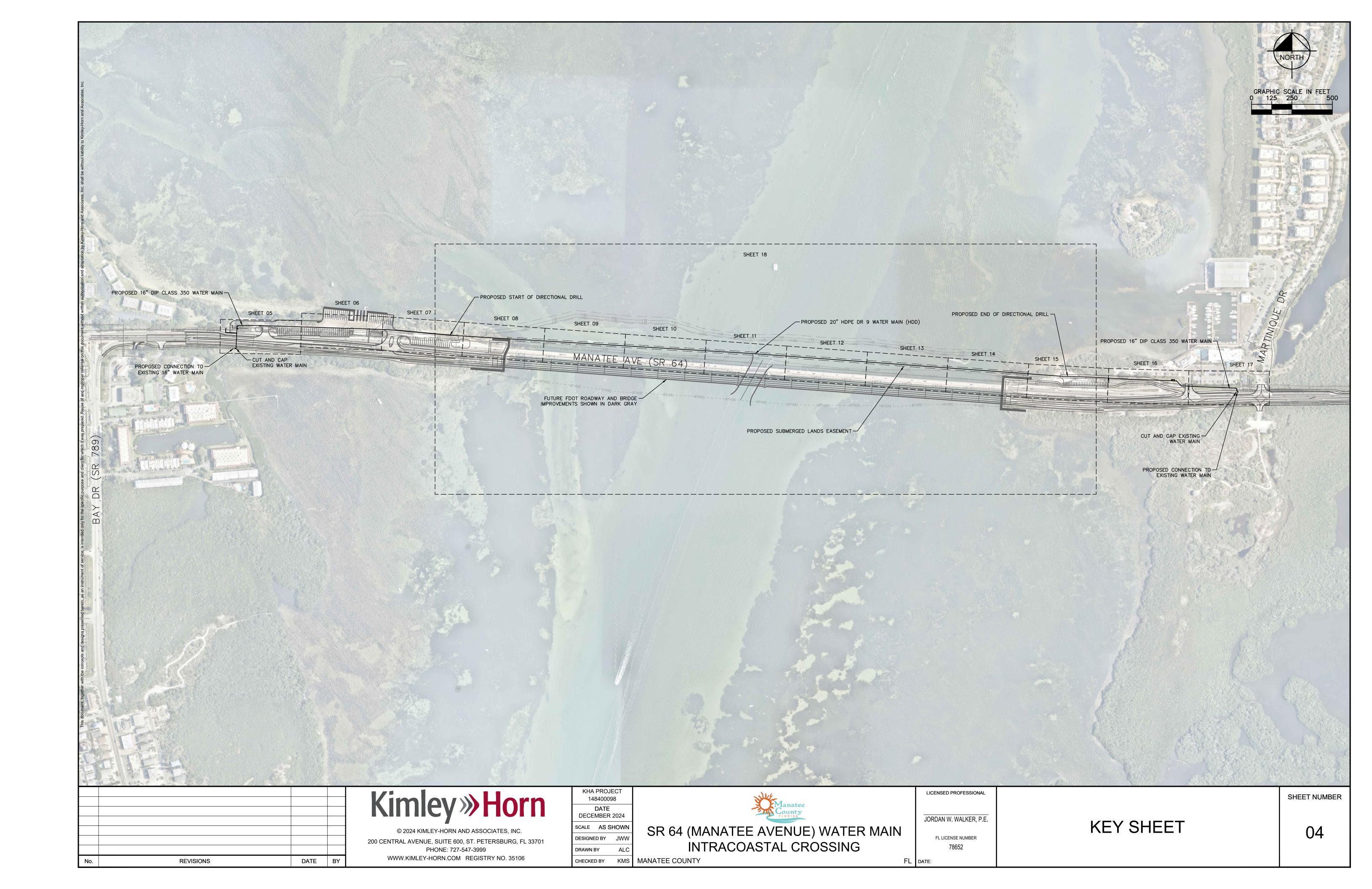
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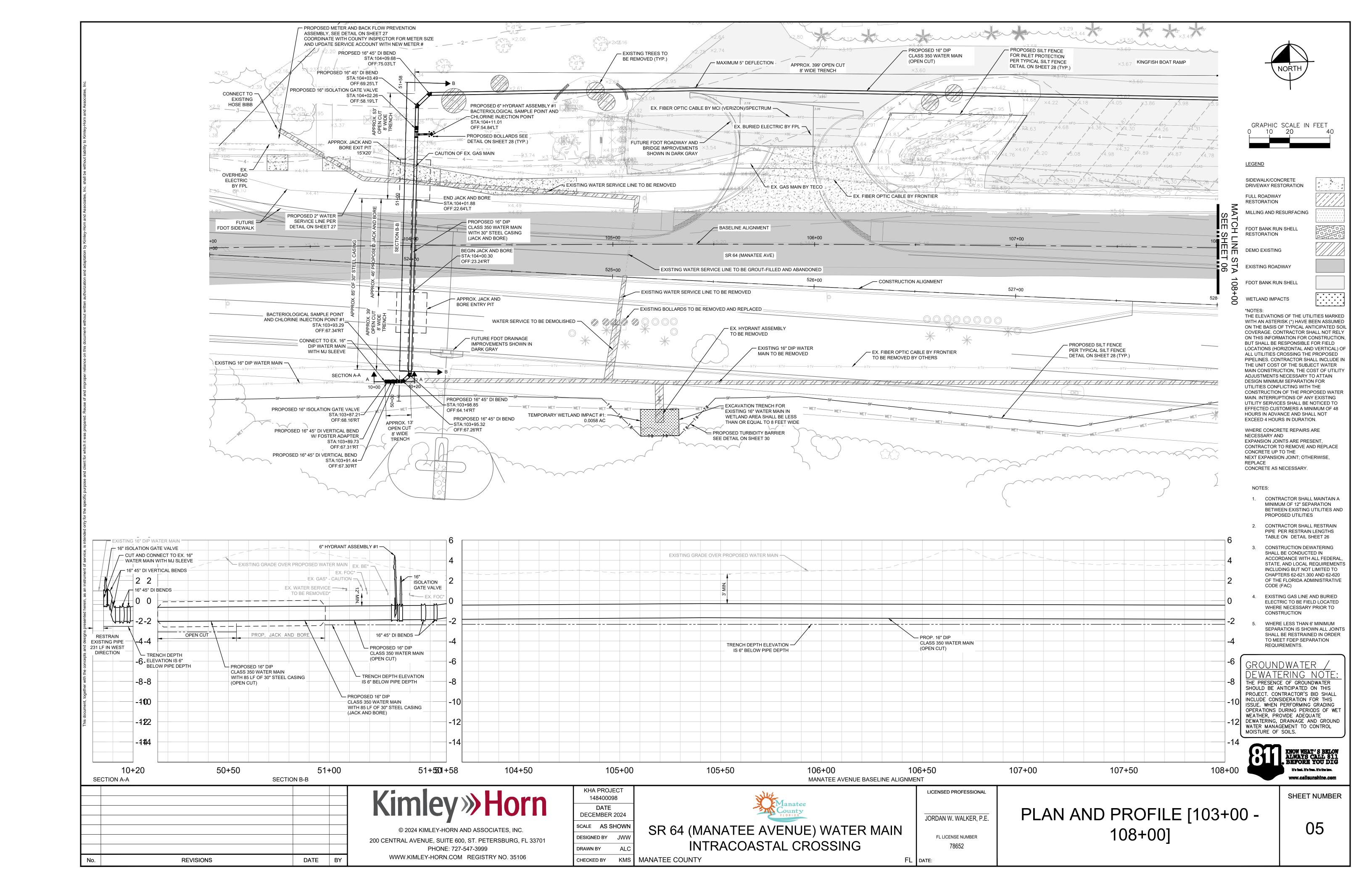
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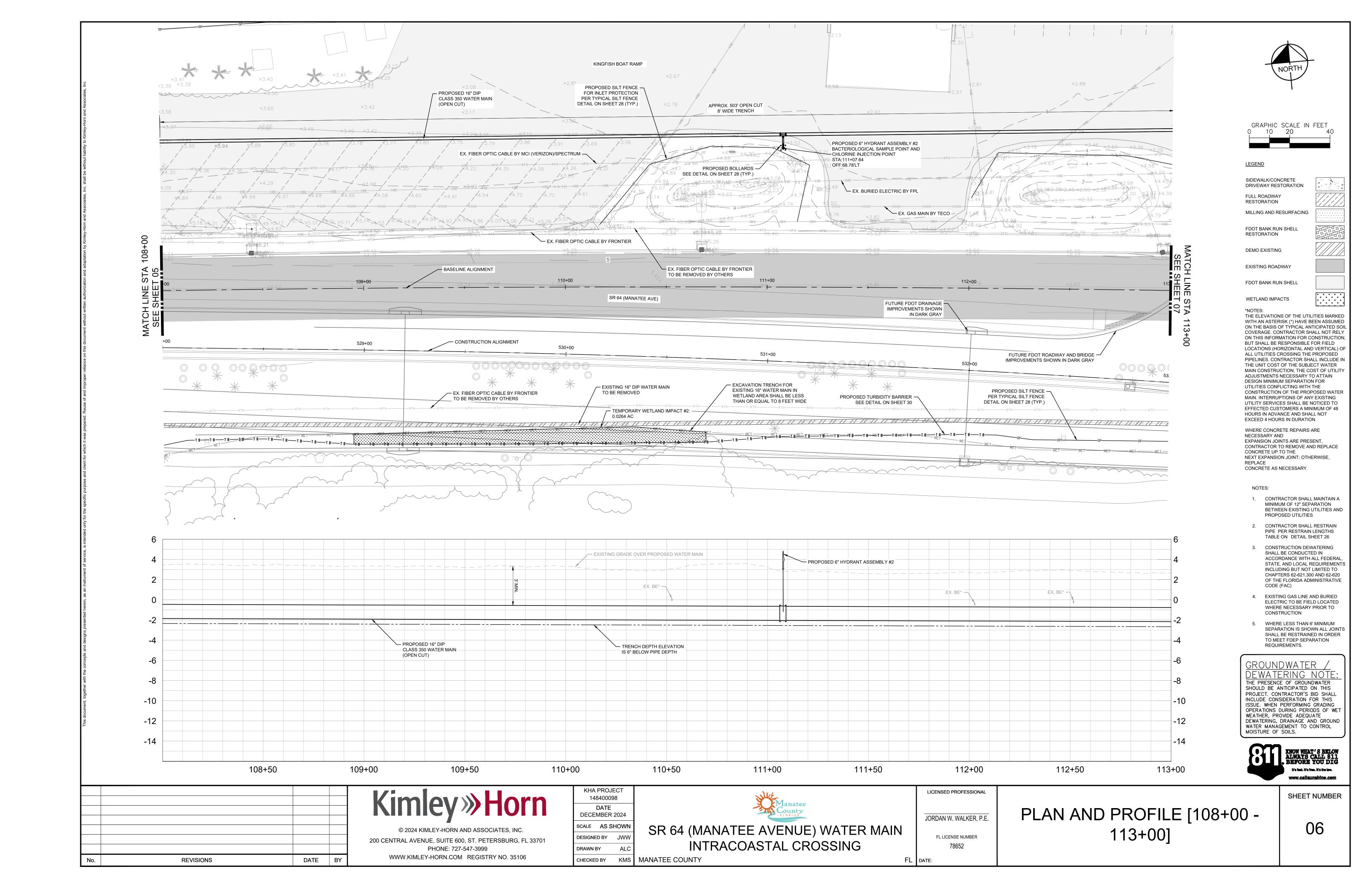
SUMMARY OF VERIFIED UTILITIES

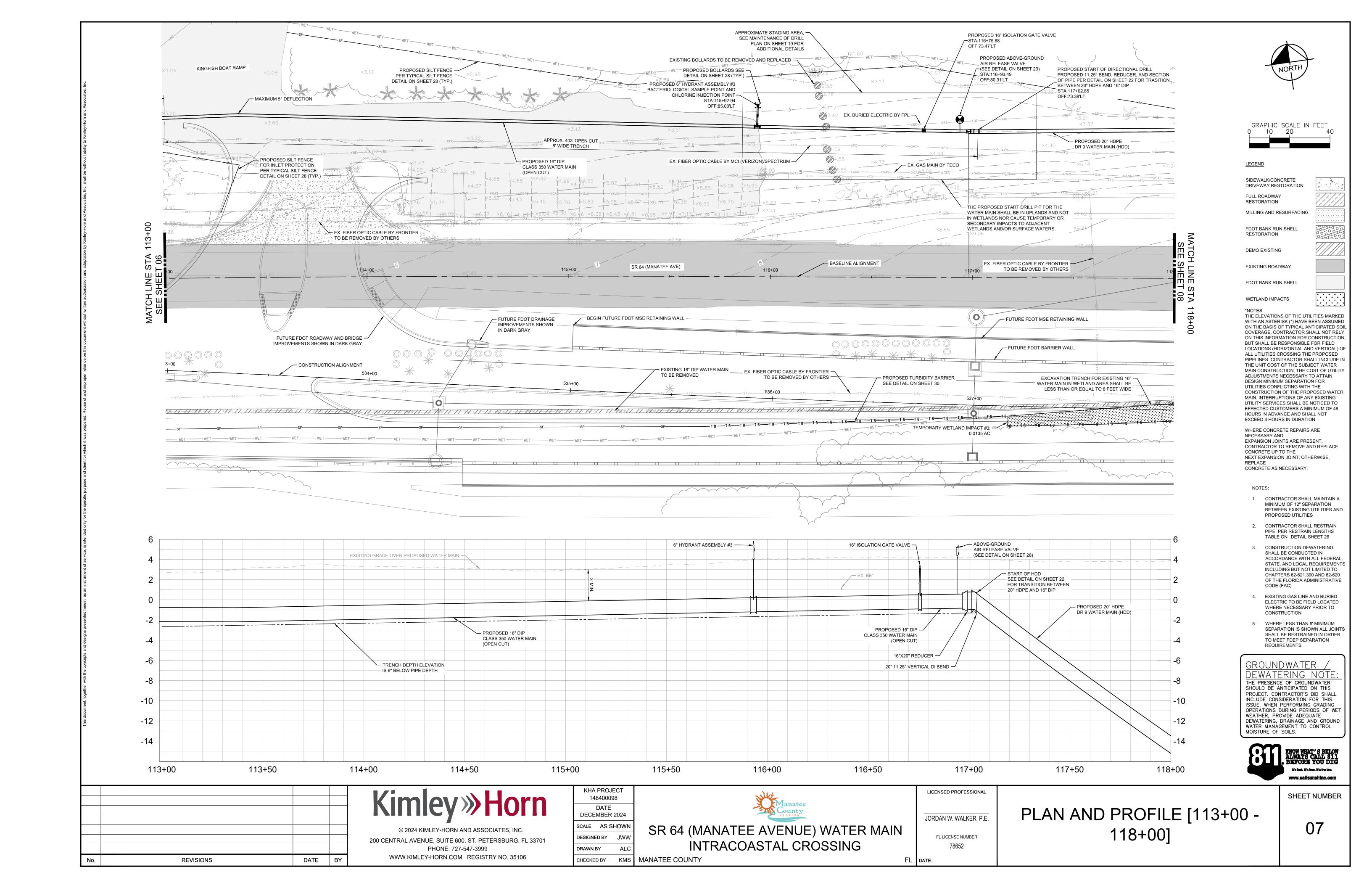
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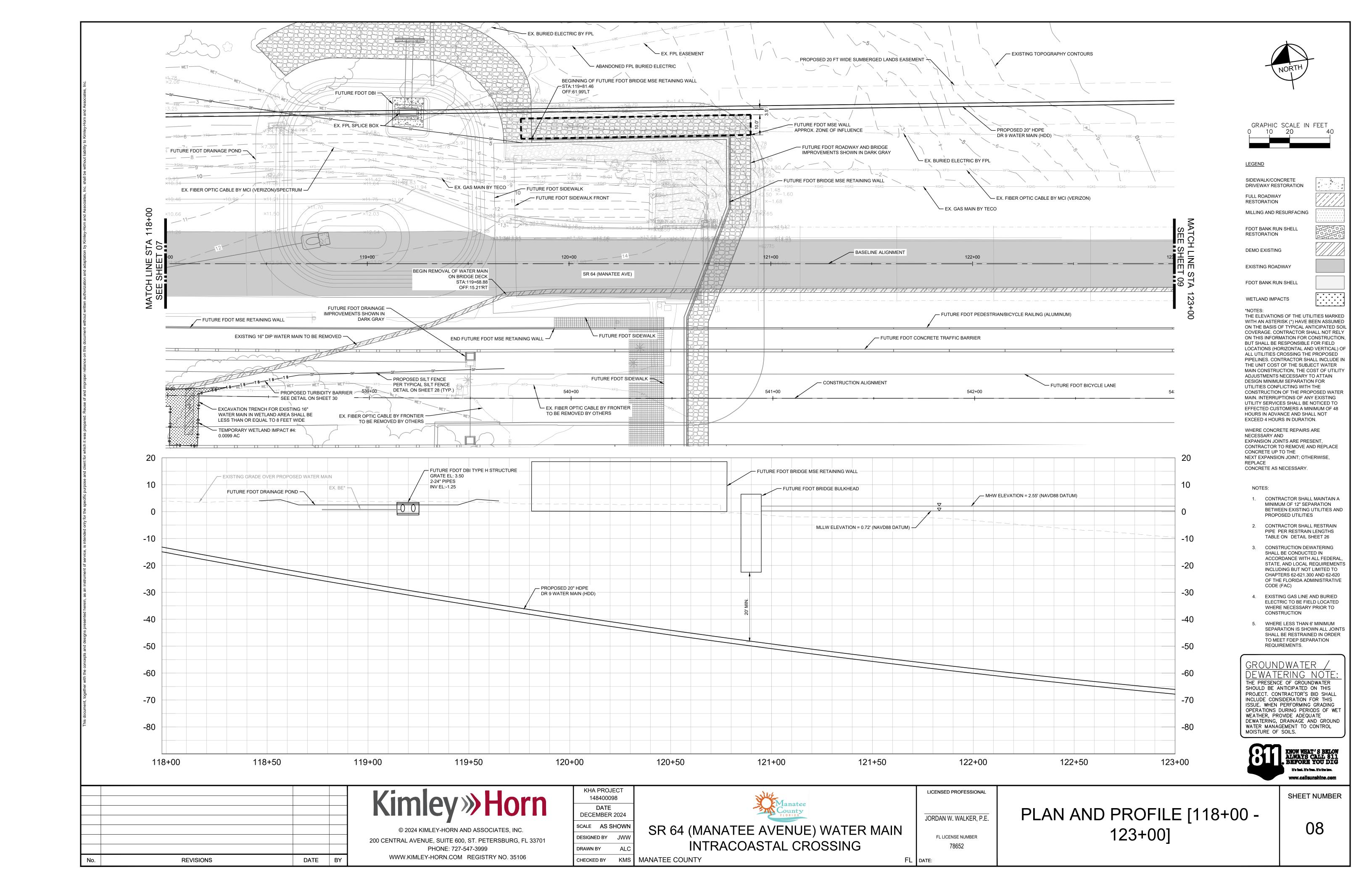
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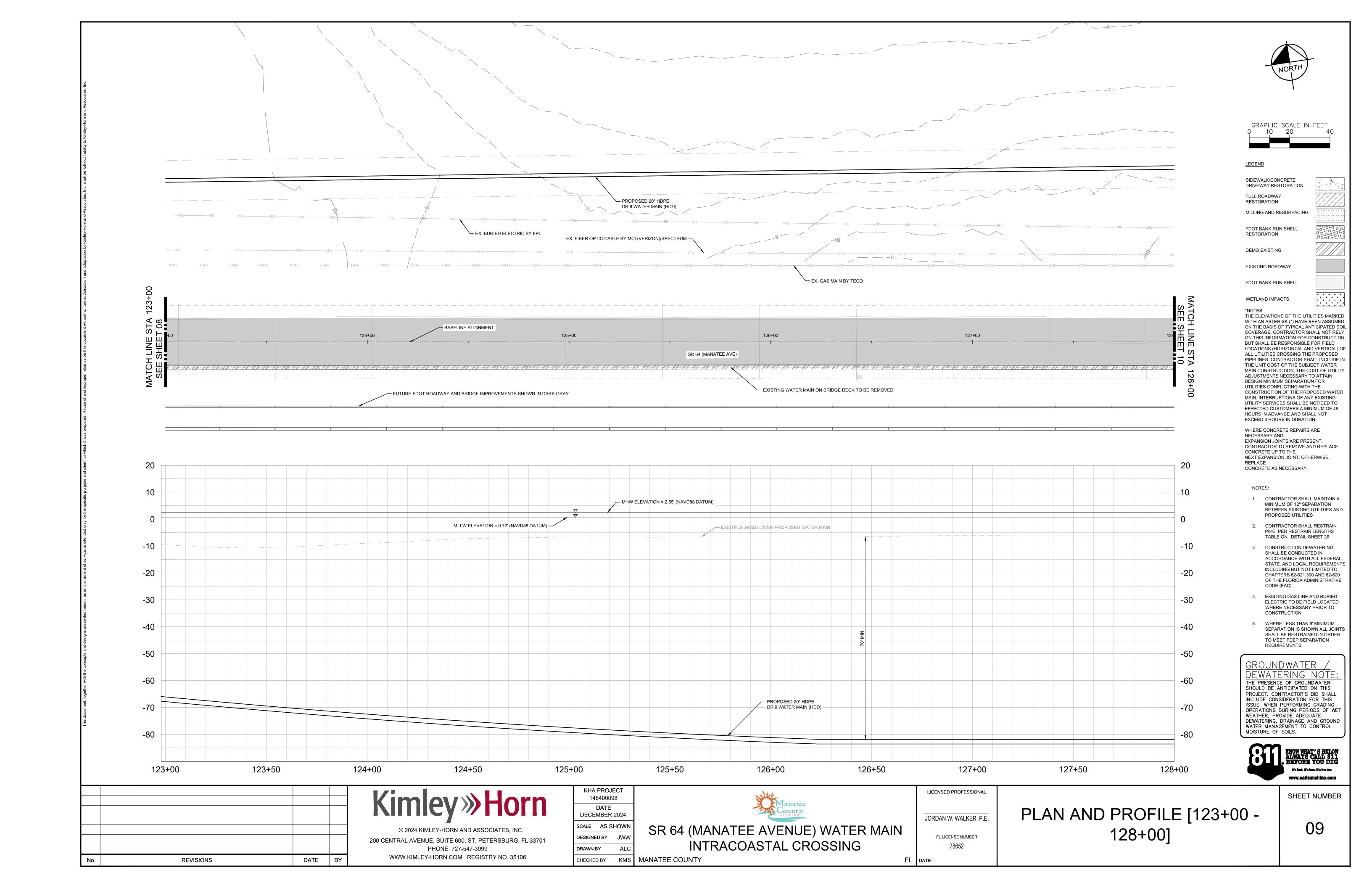


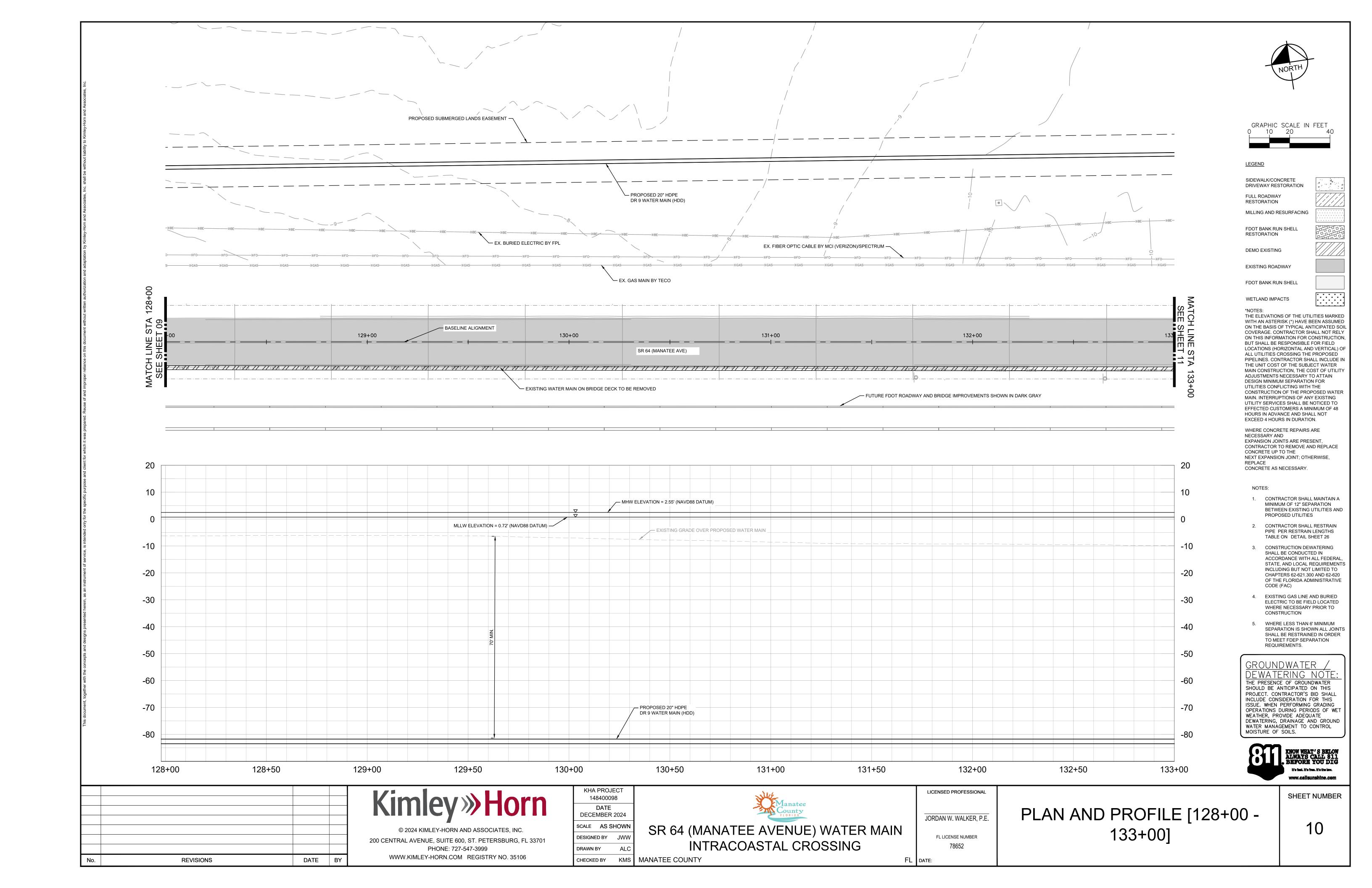


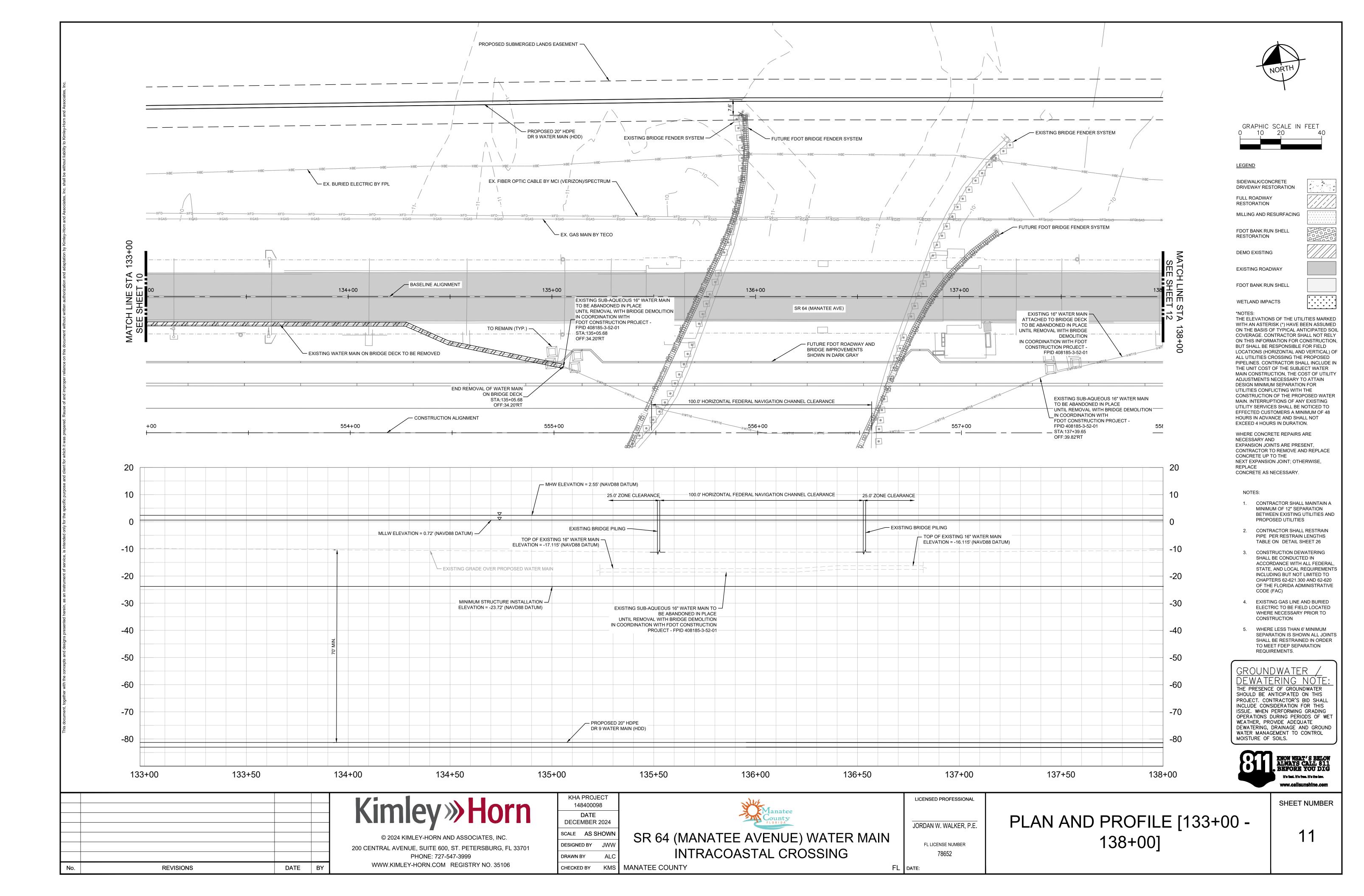


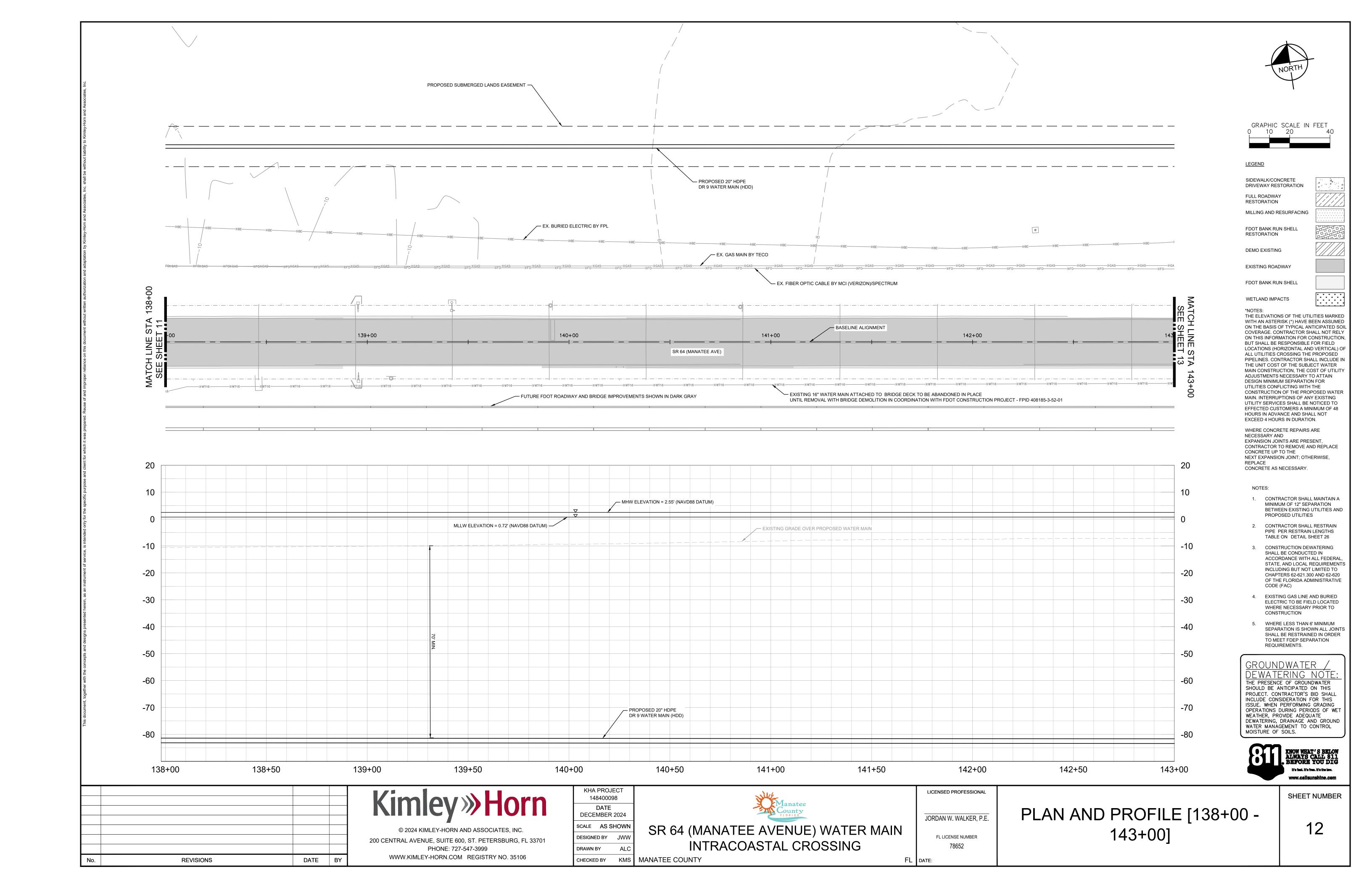


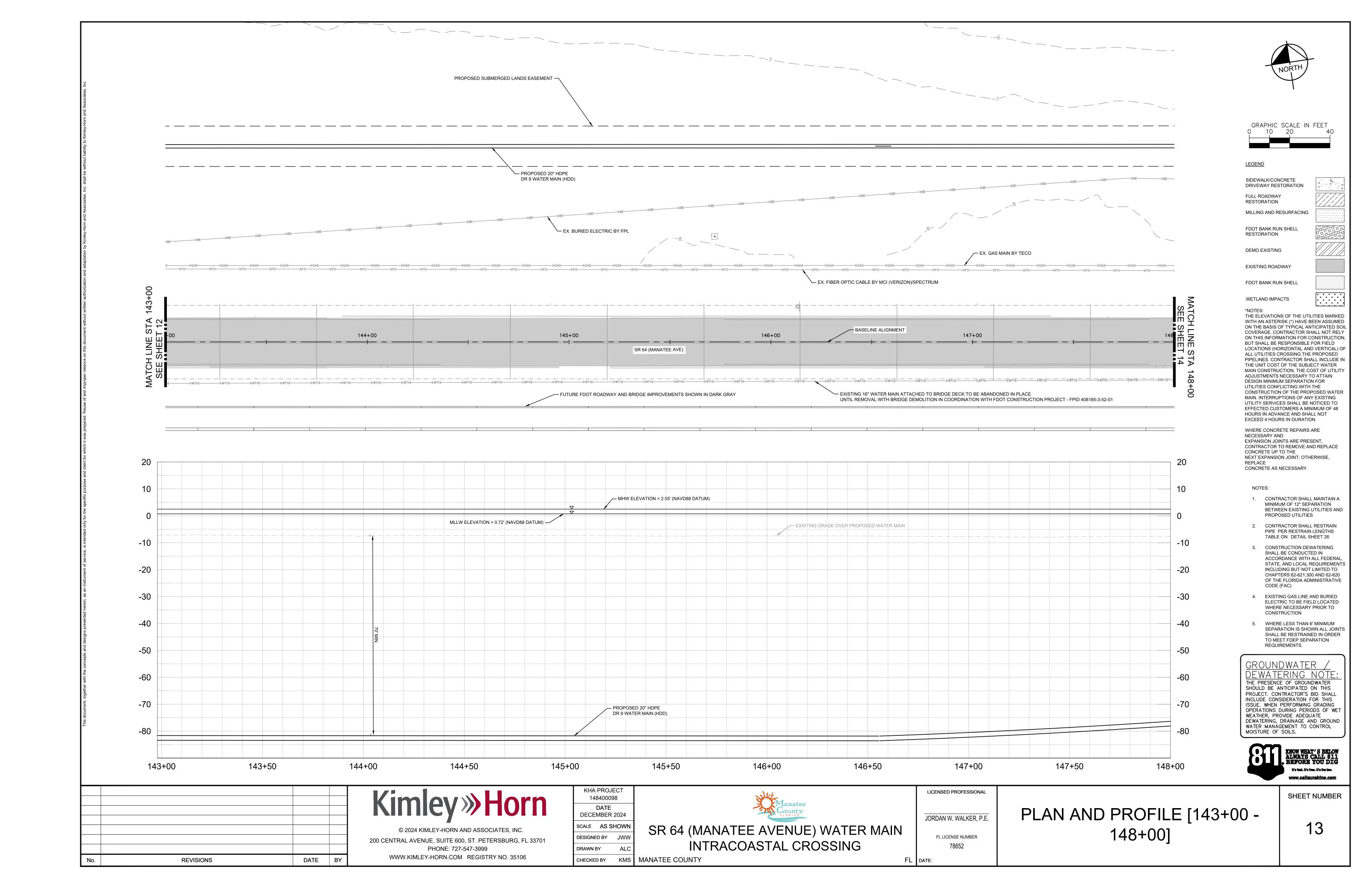


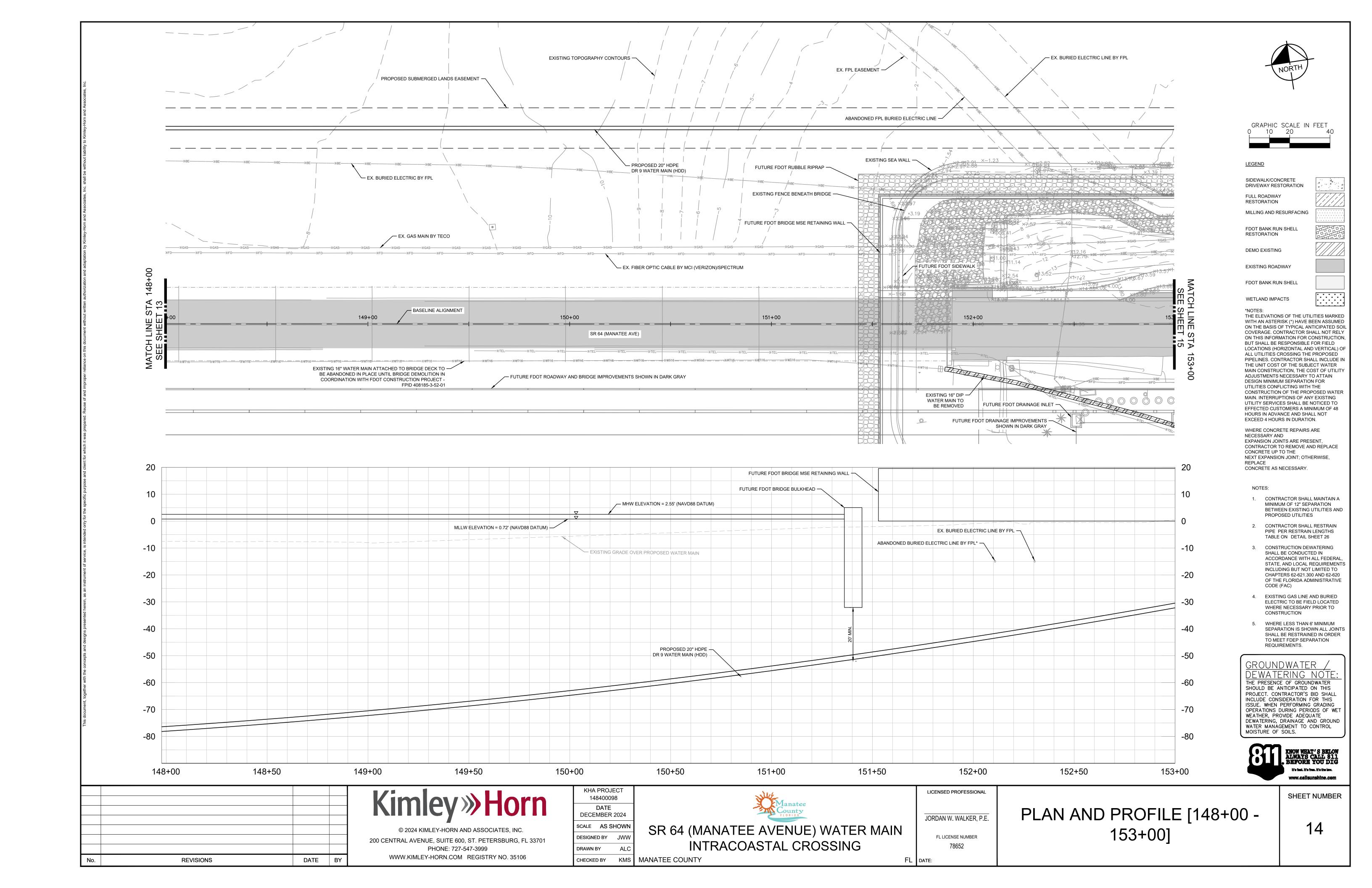


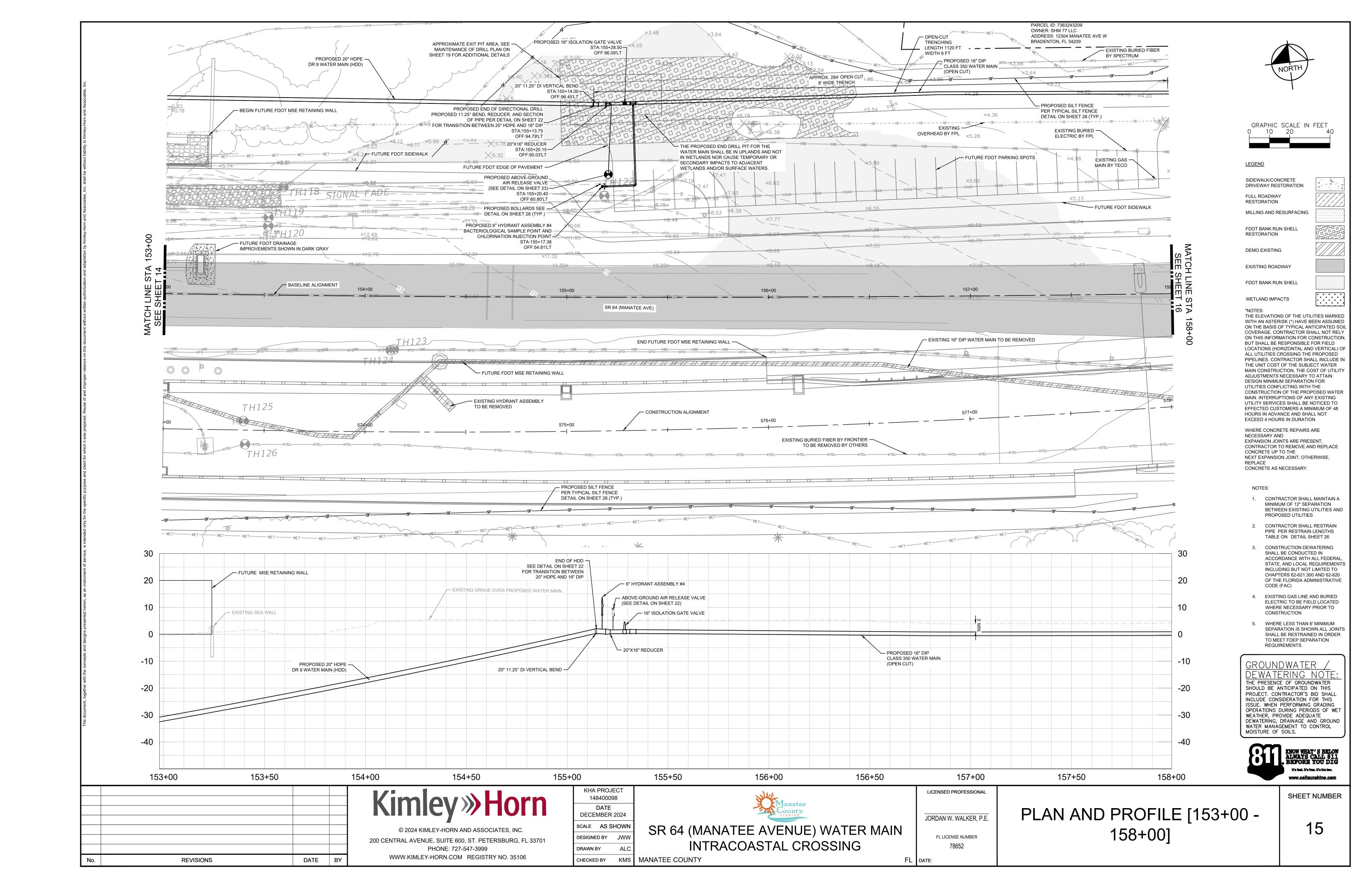


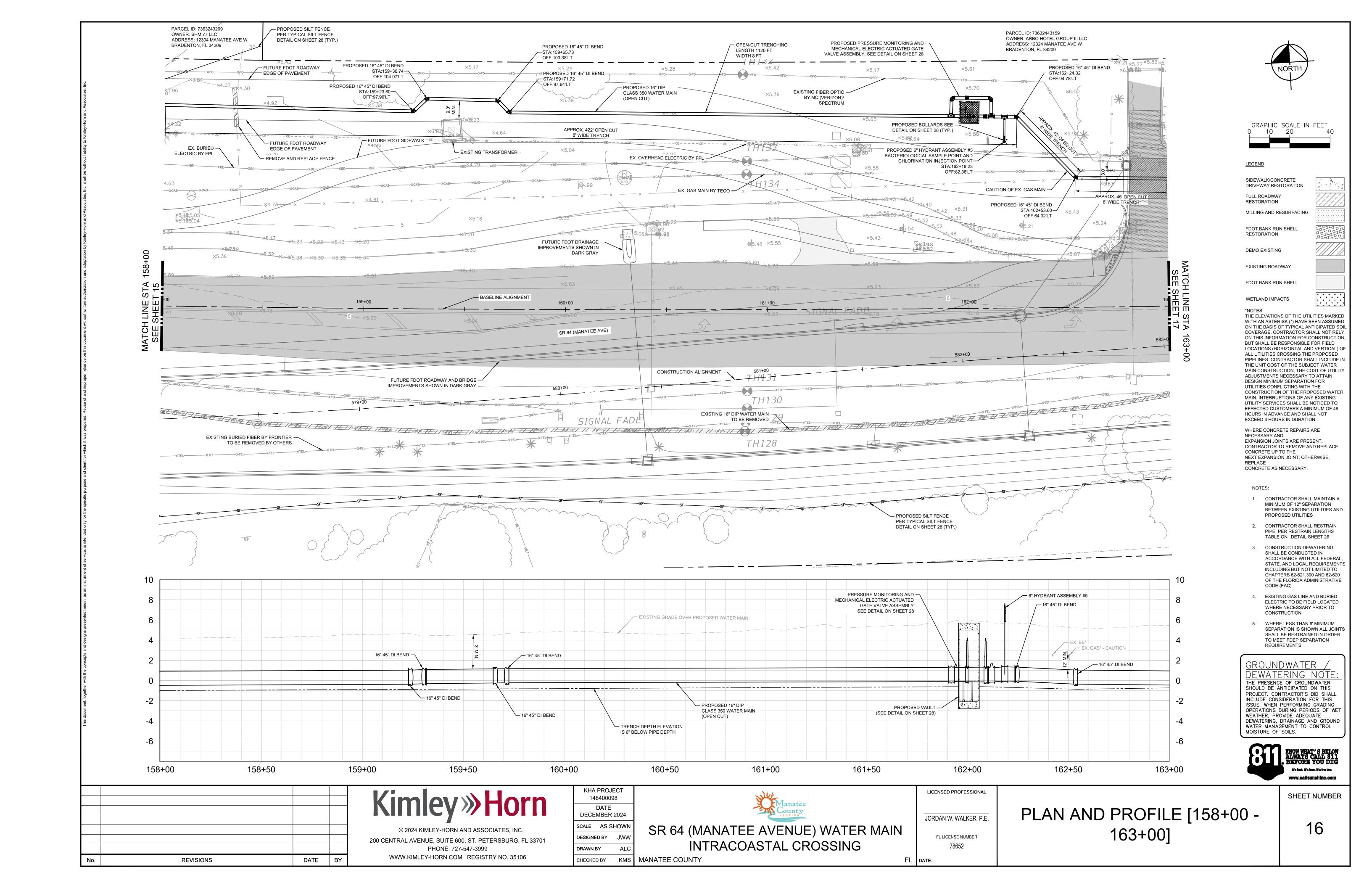


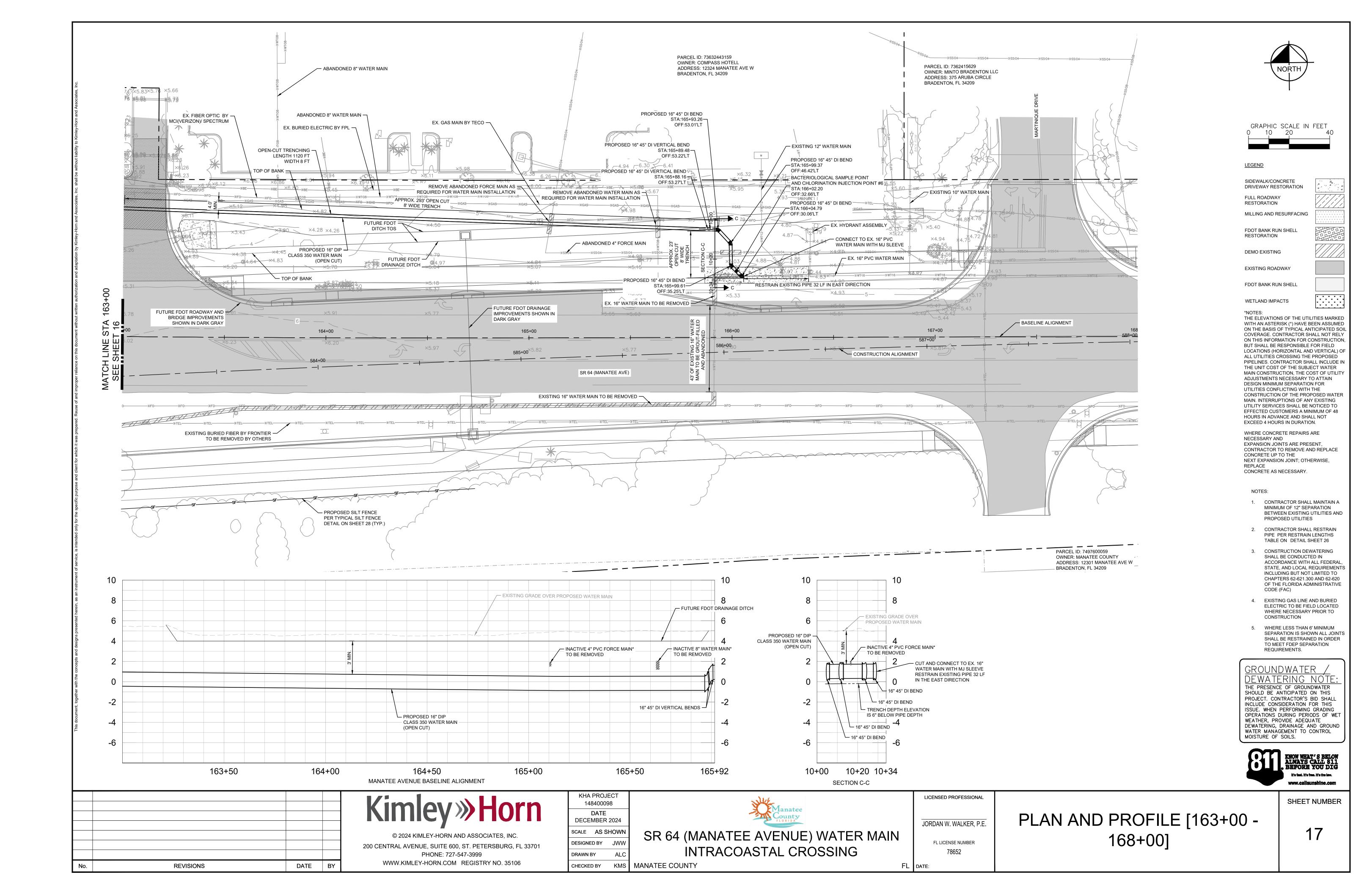


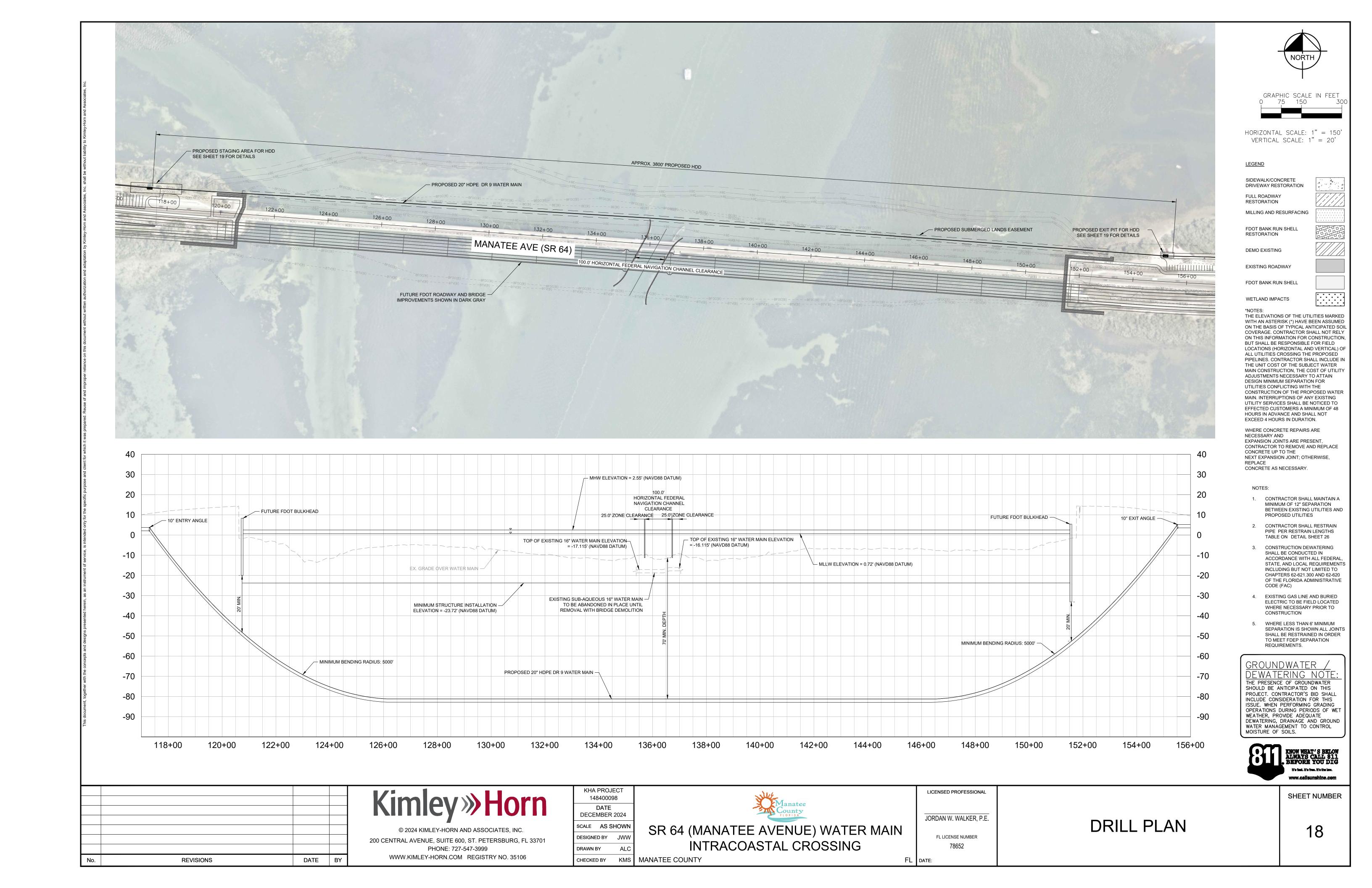


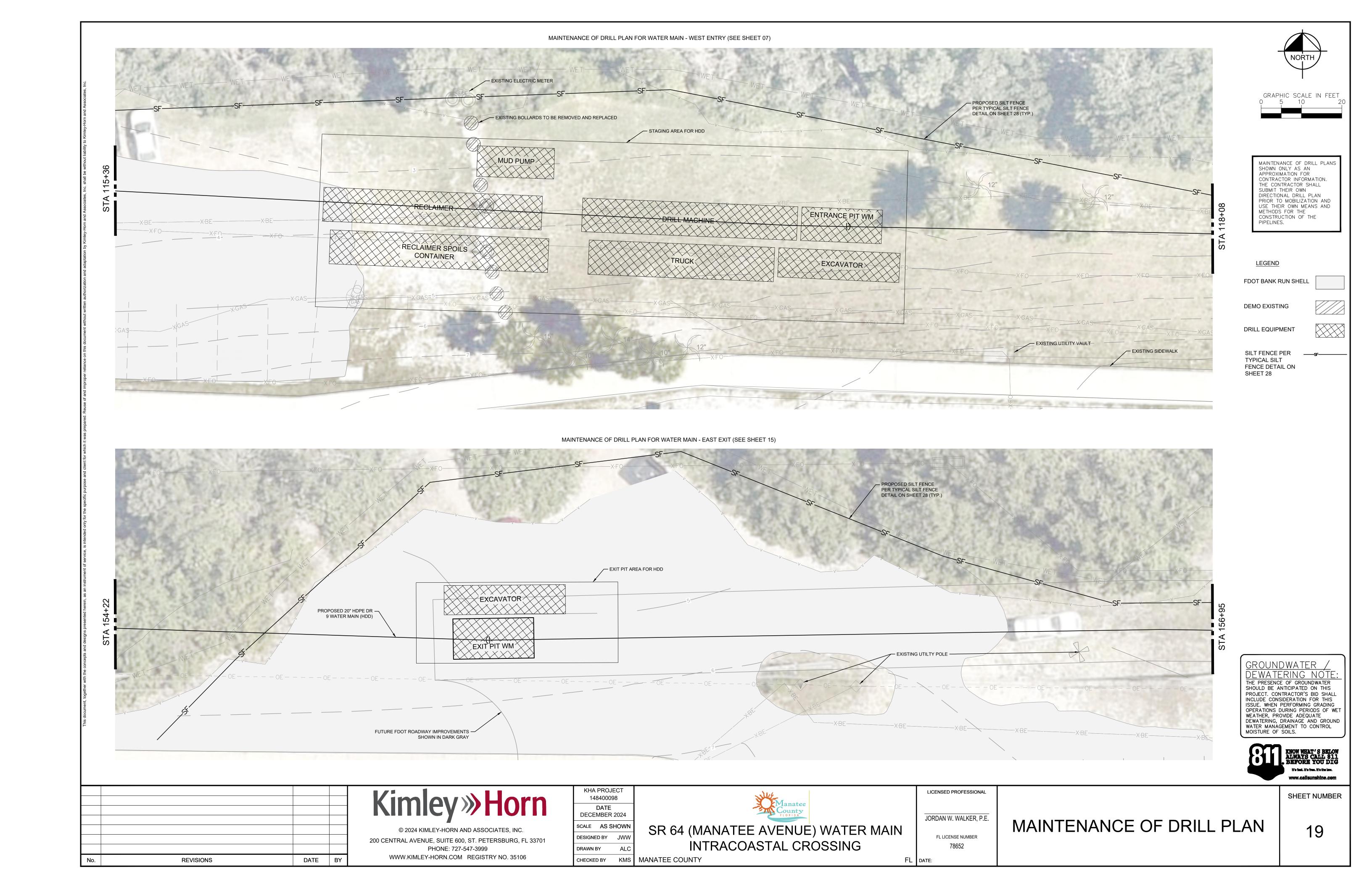


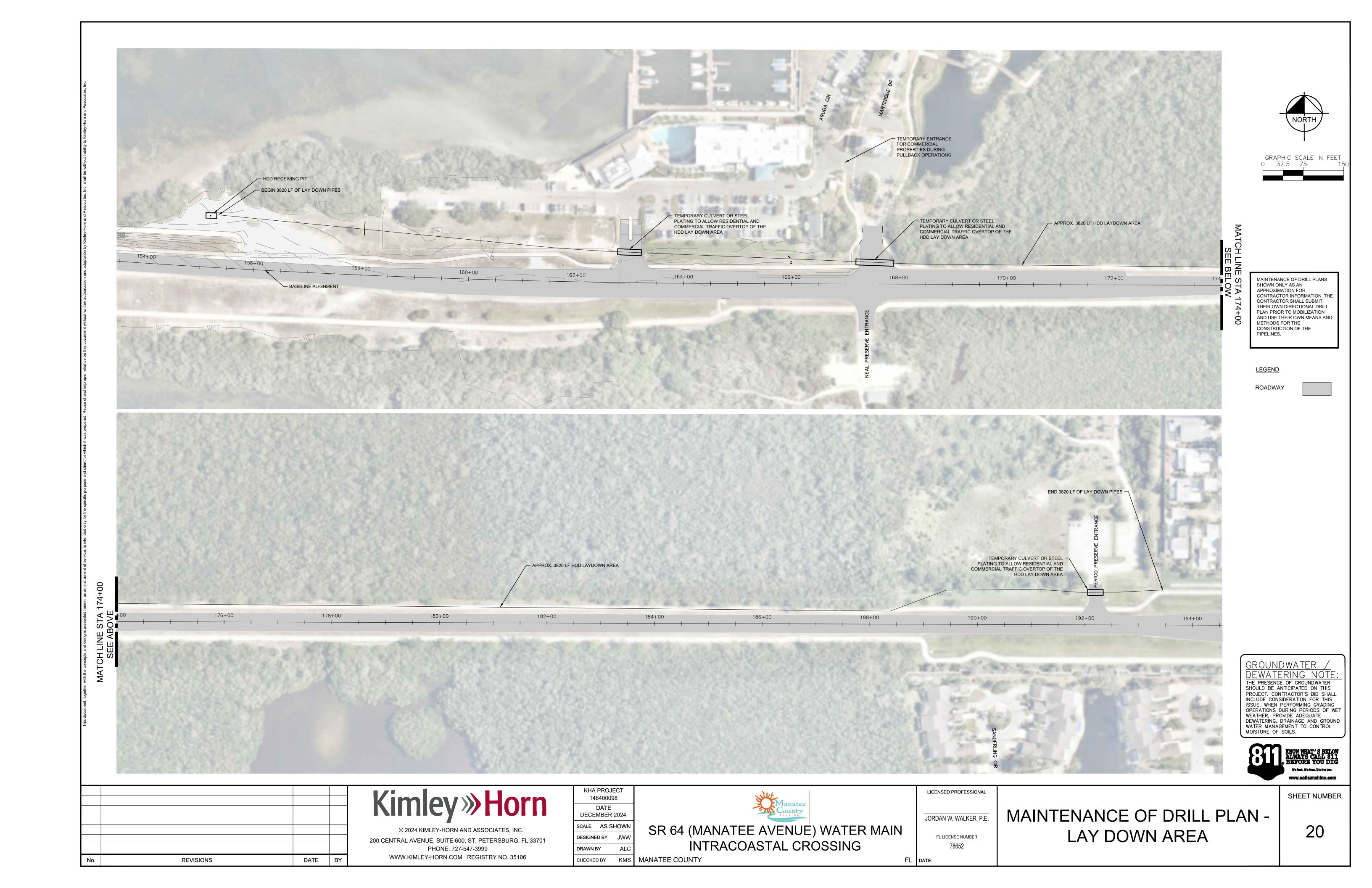


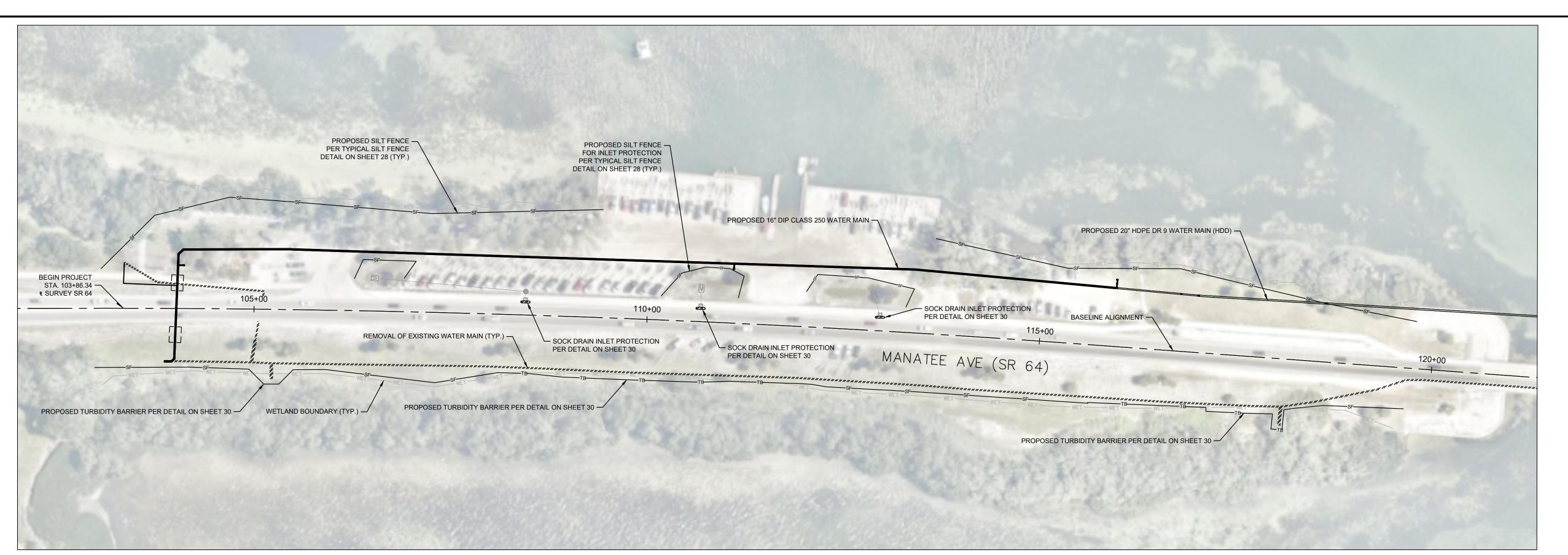


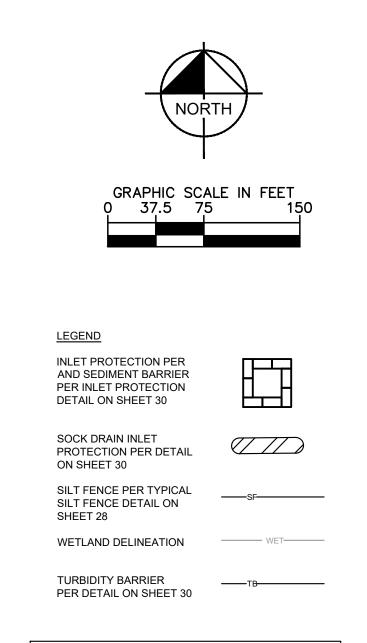




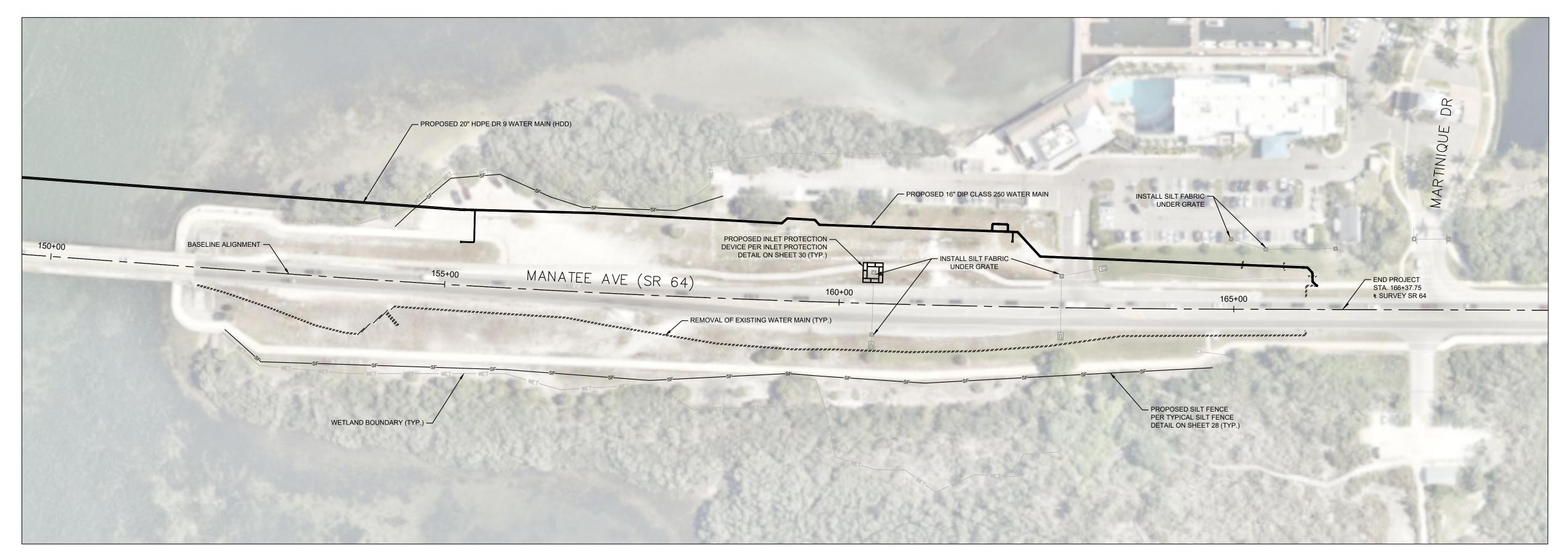








THIS EROSION CONTROL PLAN IS FOR GENERAL GUIDANCE. CONTRACTOR SHALL PROVIDE AN EROSION CONTROL PLAN THAT IS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REPRESENTING THE CONTRACTOR FOR REVIEW AND APPROVAL BY THE COUNTY AND THE PERMITTING AGENCY.



No. REVISIONS DATE BY

(imley) Horn
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200 CENTRAL AVENUE, SUITE 600, ST. PETERSBURG, FL 33701
PHONE: 727-547-3999
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT
148400098

DATE
DECEMBER 2024

SCALE AS SHOWN
DESIGNED BY JWW

KMS MANATEE COUNTY

DRAWN BY

SR 64 (MANATEE AVENUE) WATER MAIN INTRACOASTAL CROSSING

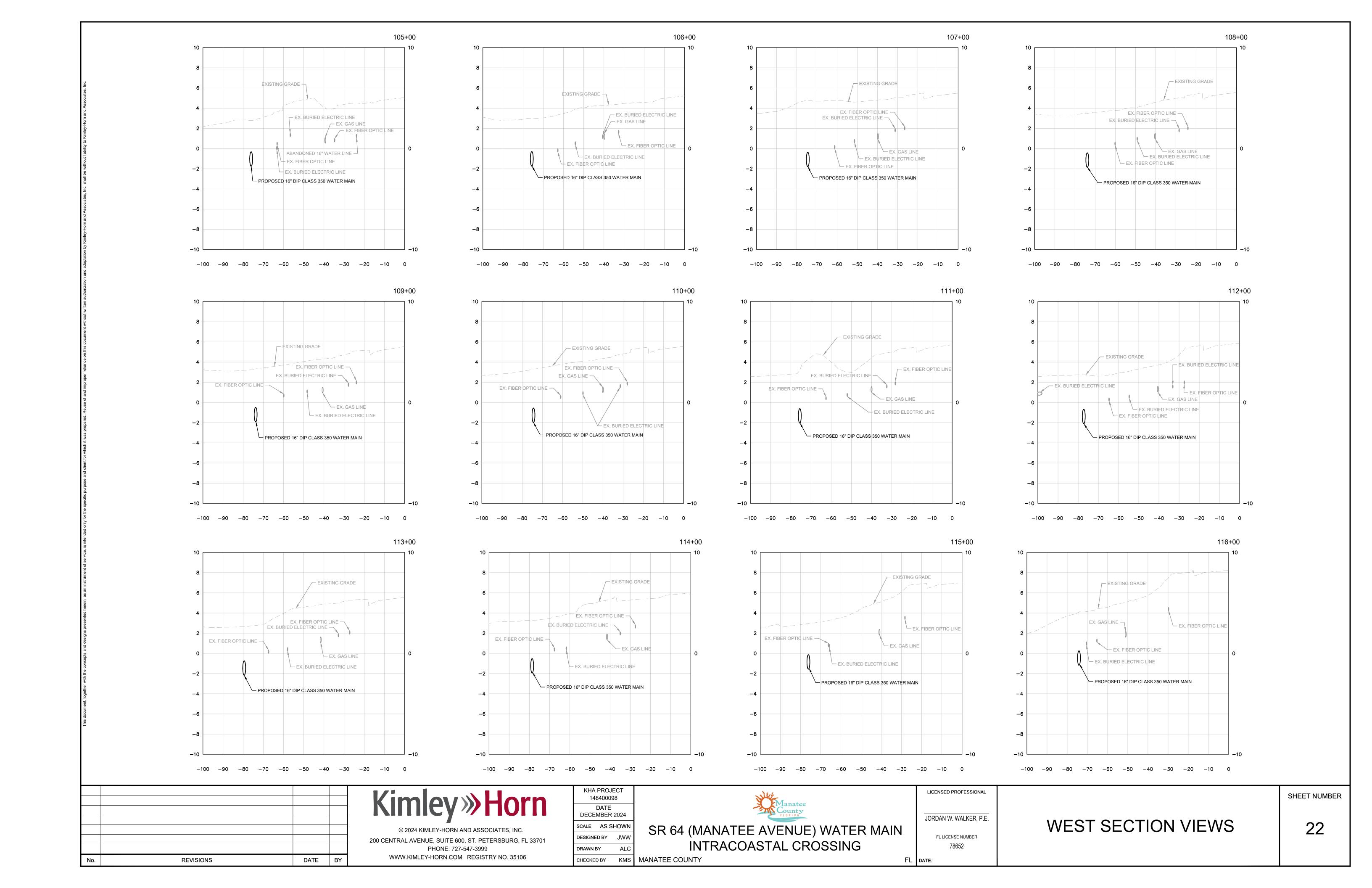
JORDAN W. WALKER, P.E.

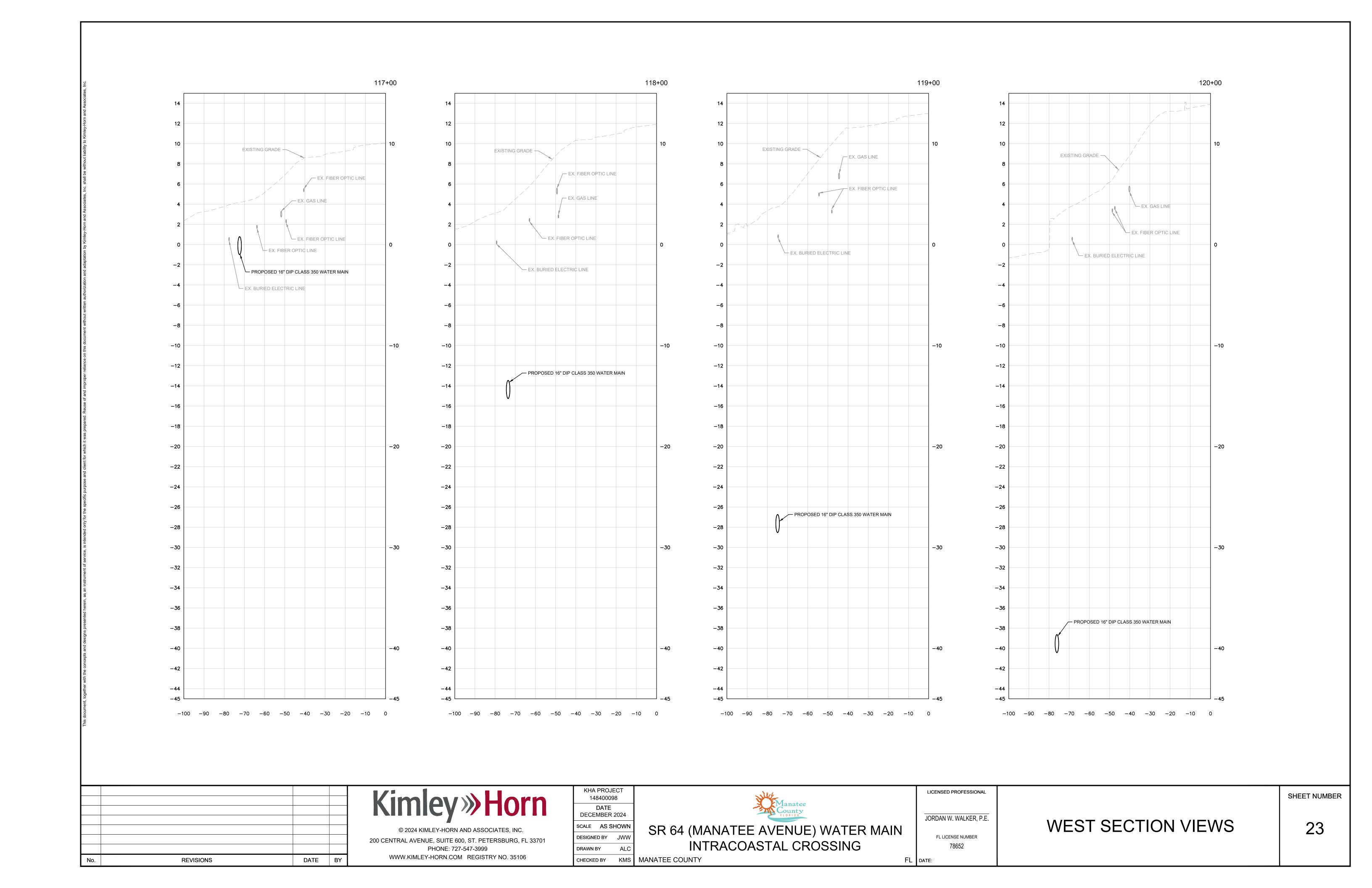
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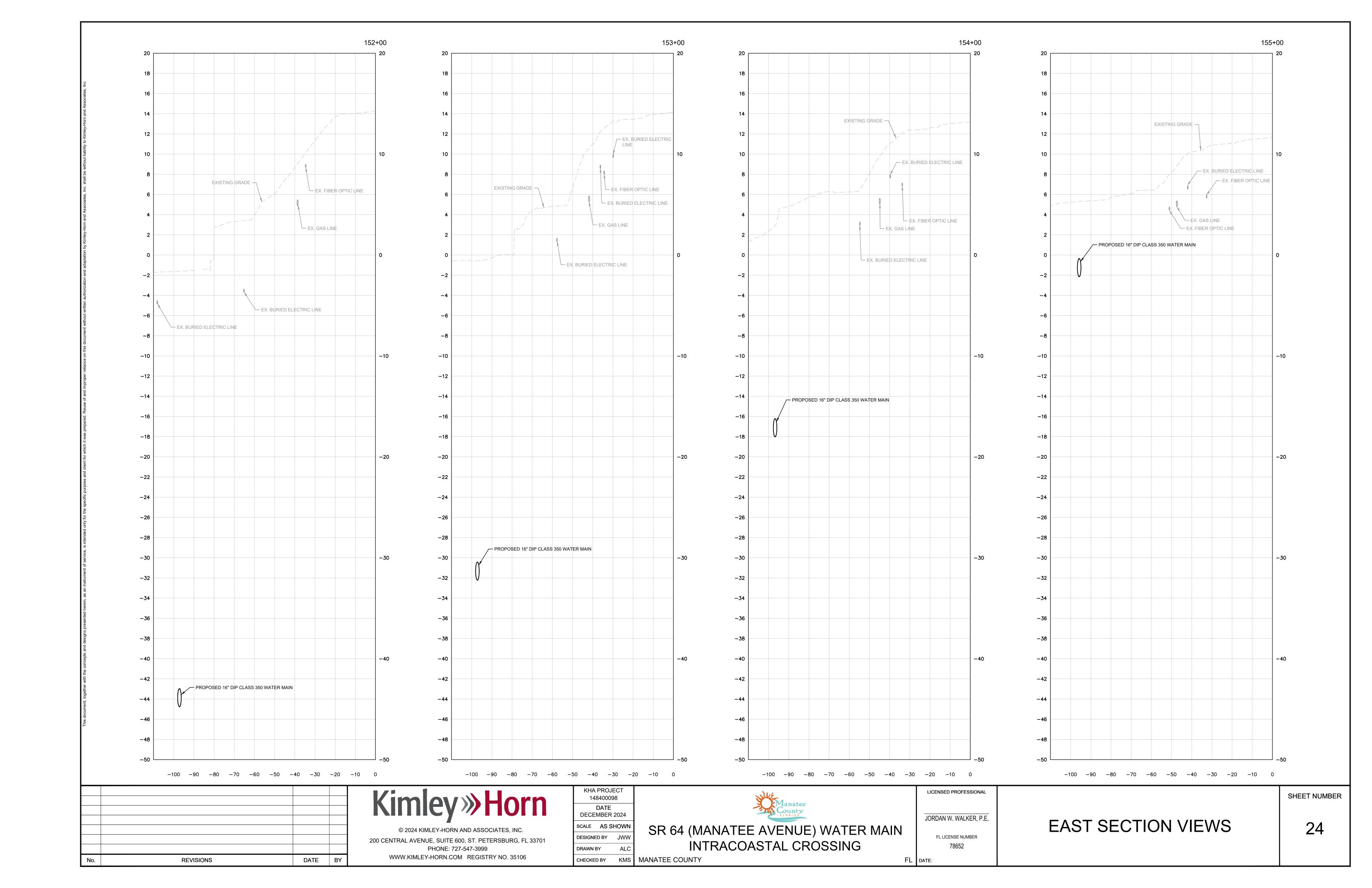
STORM WATER POLLUTION PREVENTION PLAN

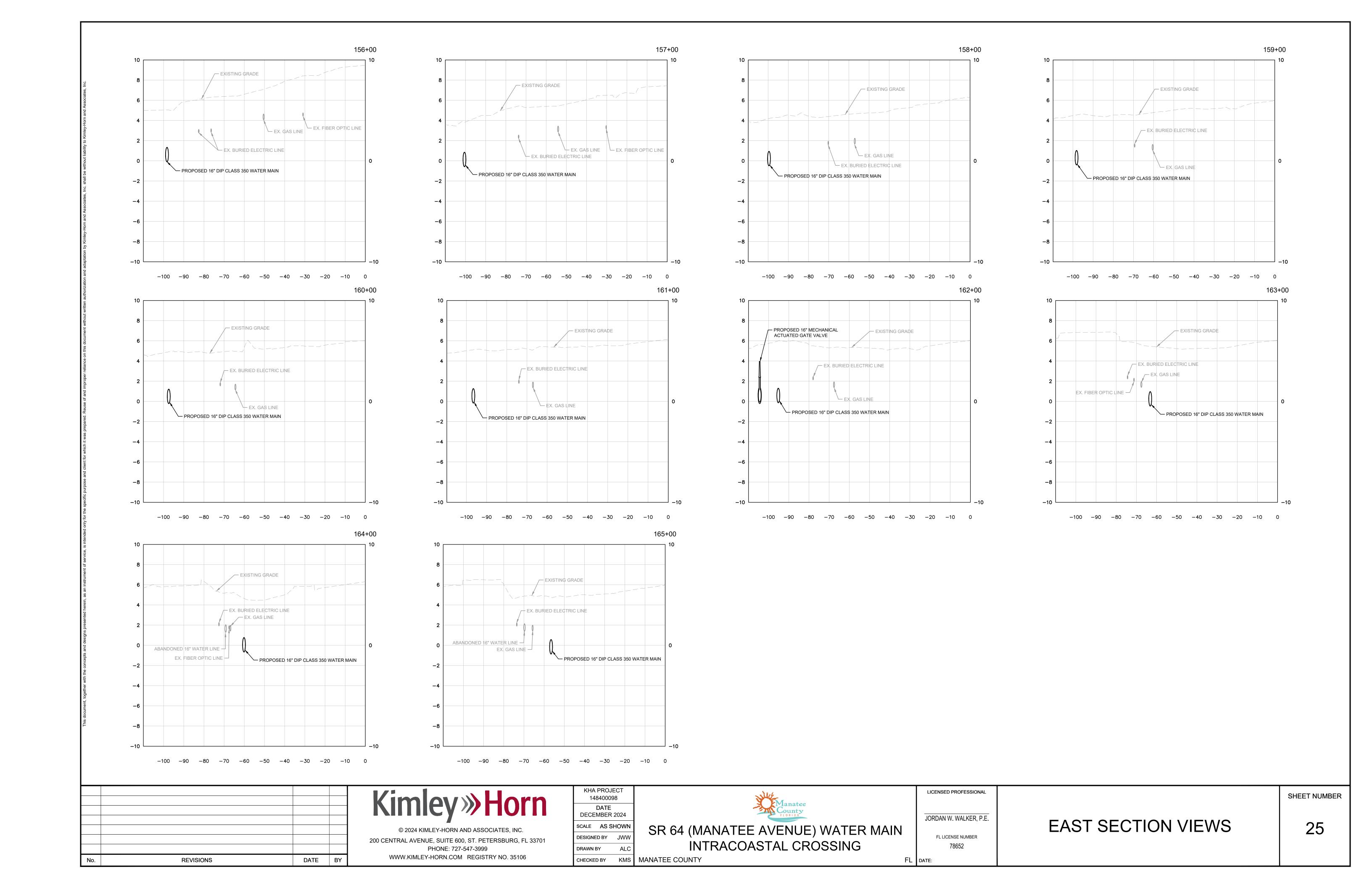
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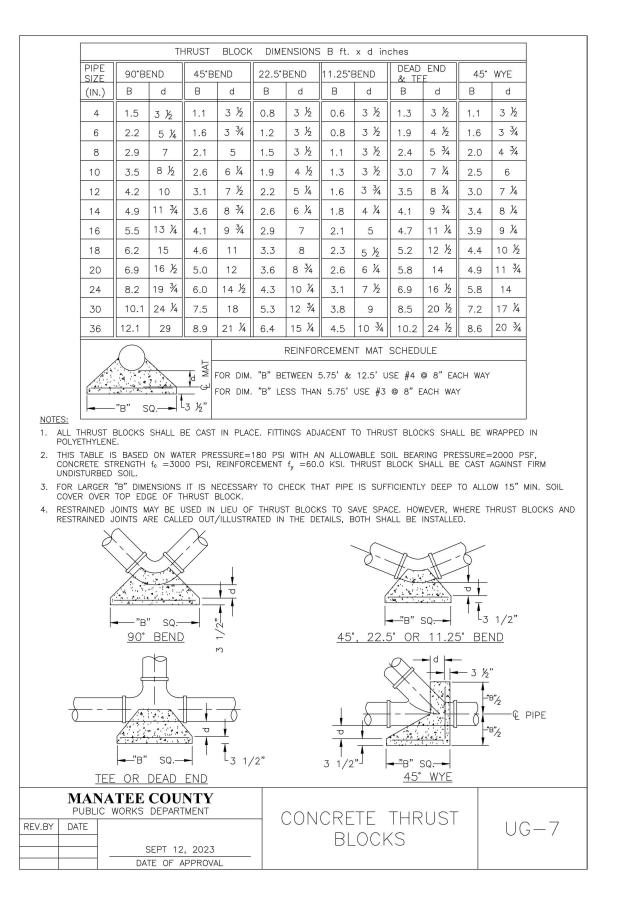
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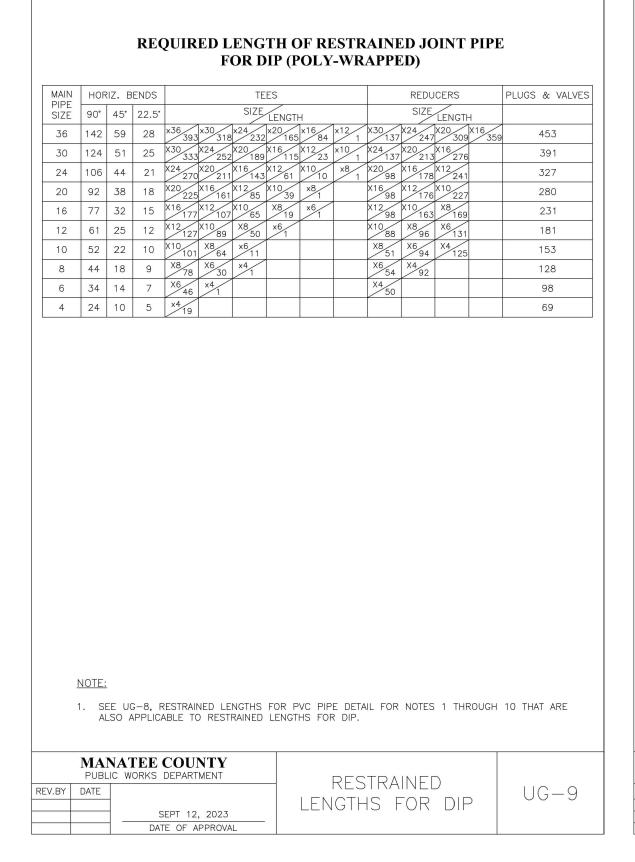


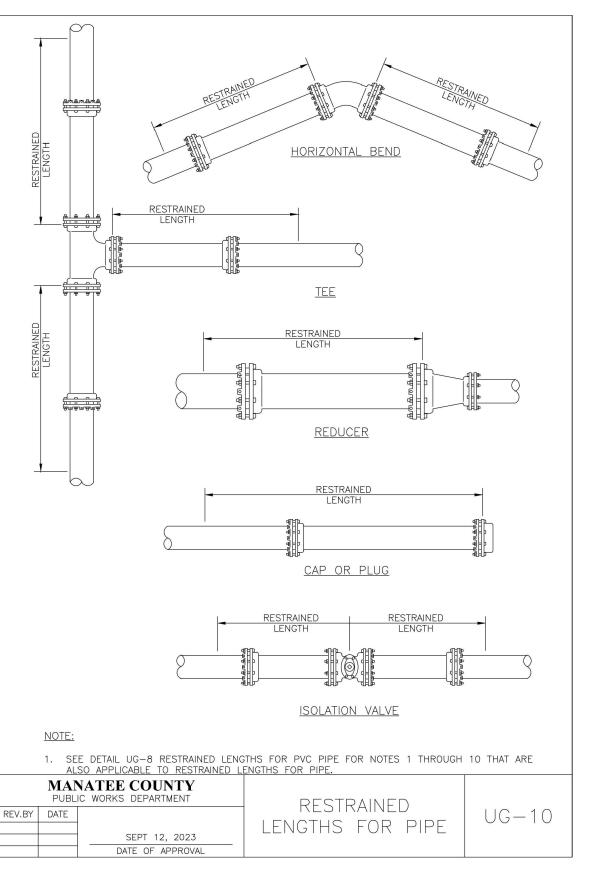


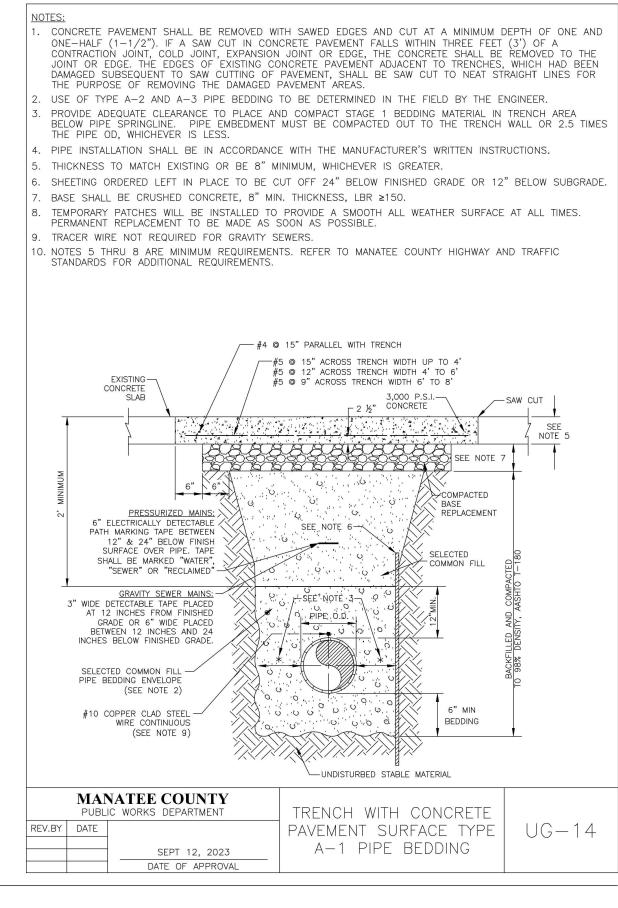


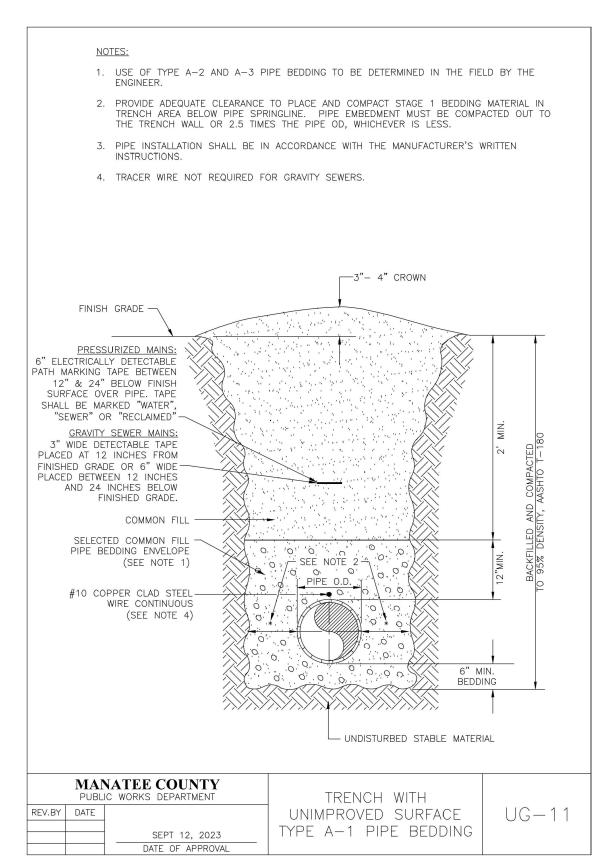


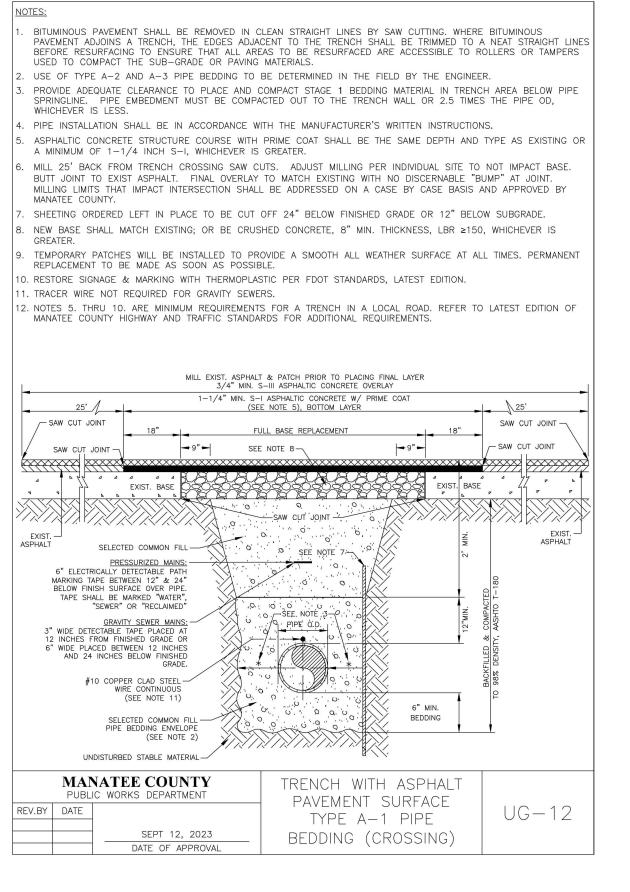


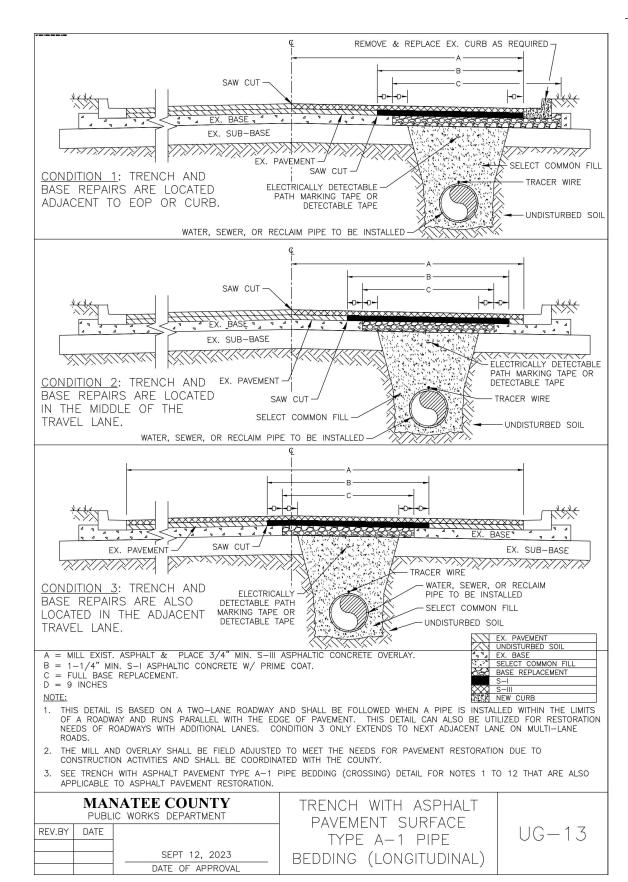


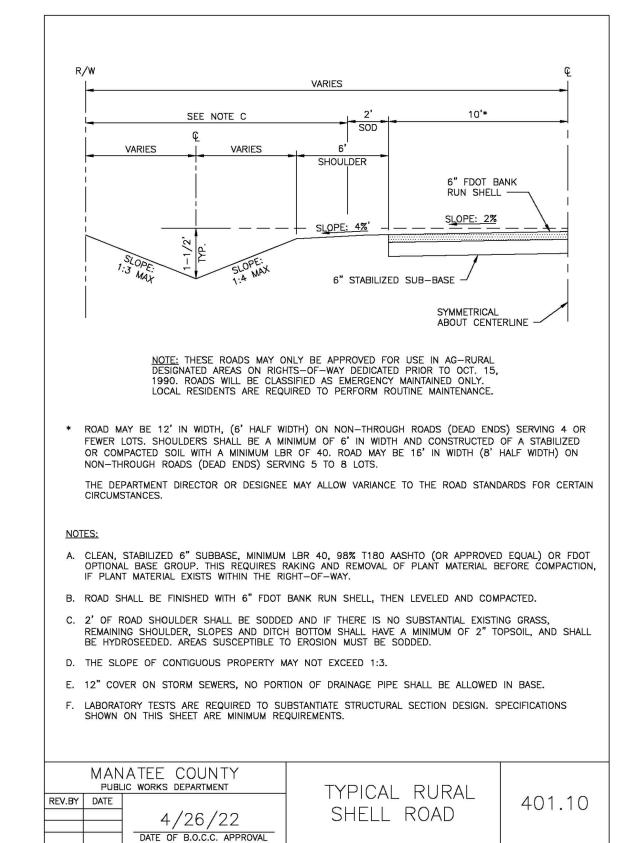


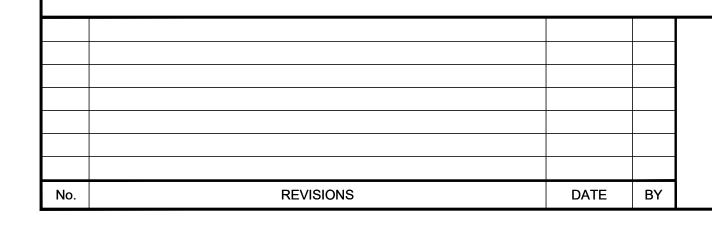










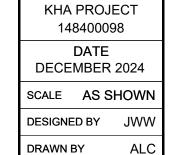




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KMS

MANATEE COUNTY

CHECKED BY

SR 64 (MANATEE AVENUE) WATER MAIN INTRACOASTAL CROSSING

JORDAN W. WALKER, P.E.

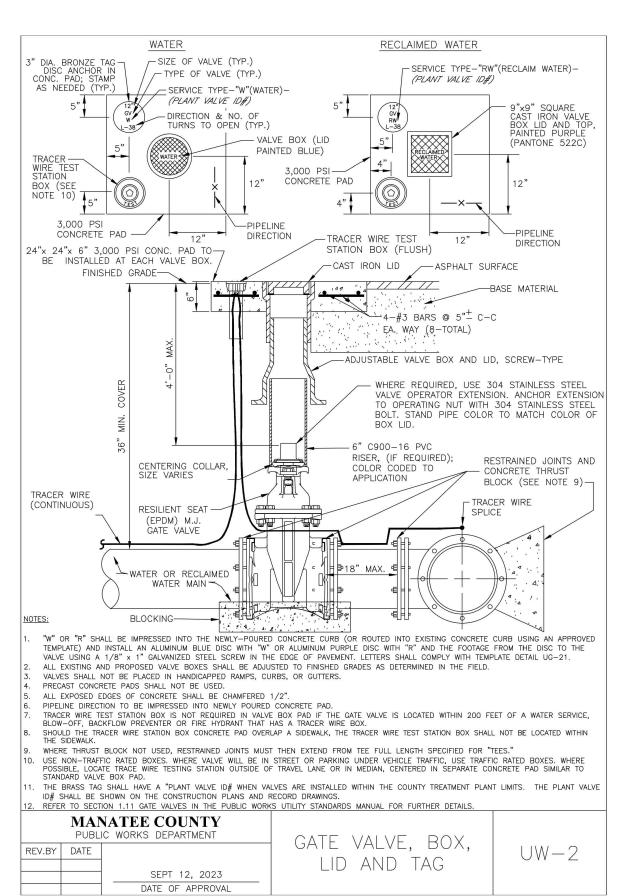
FL LICENSE NUMBER
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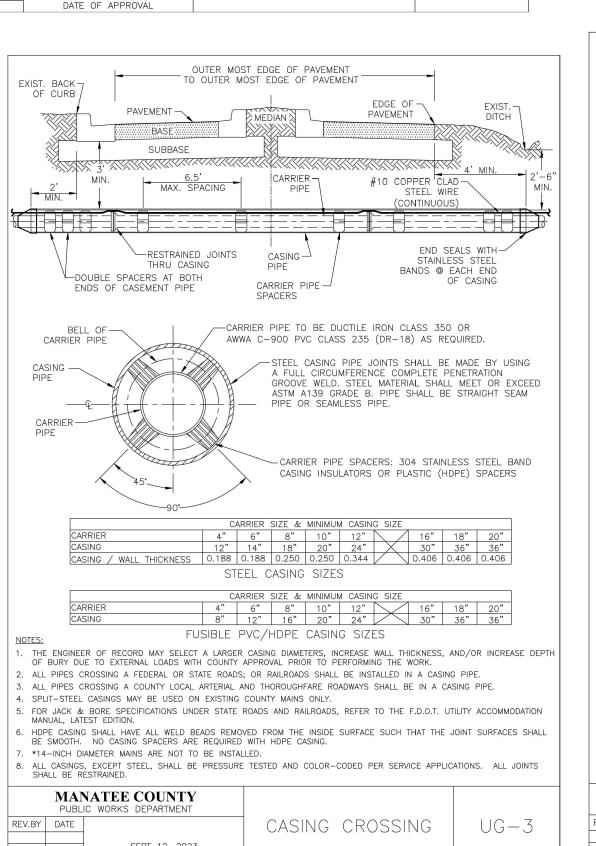
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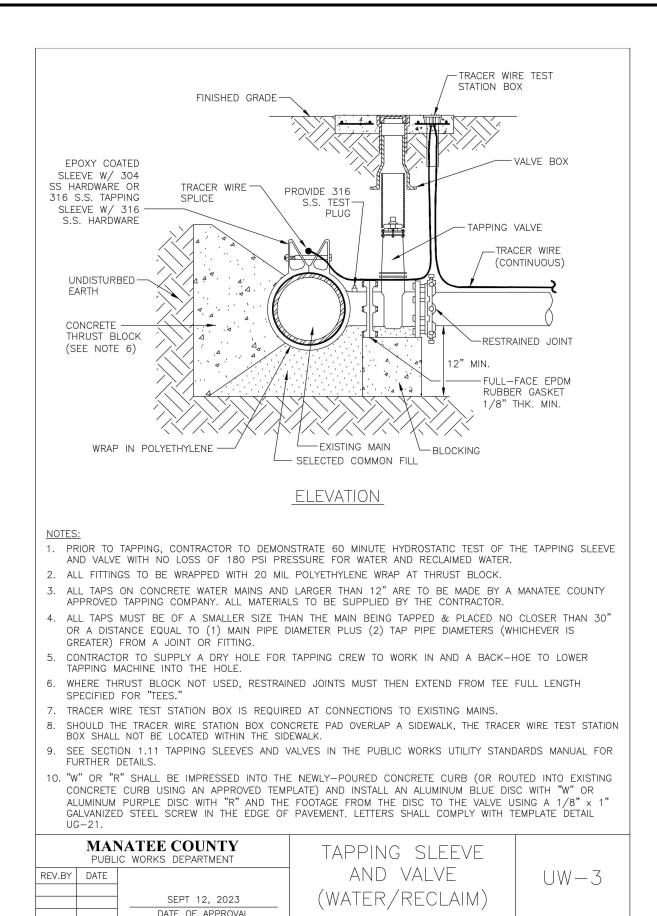
DETAILS

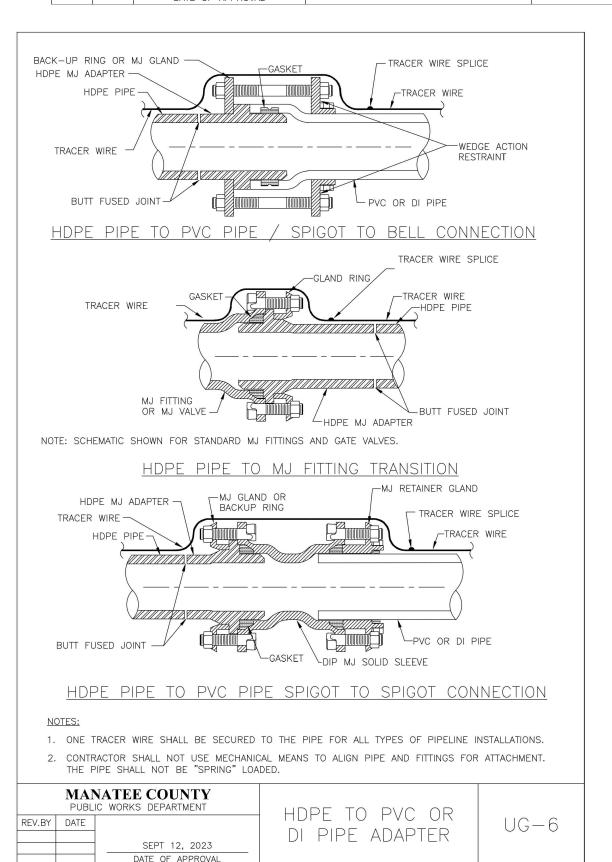
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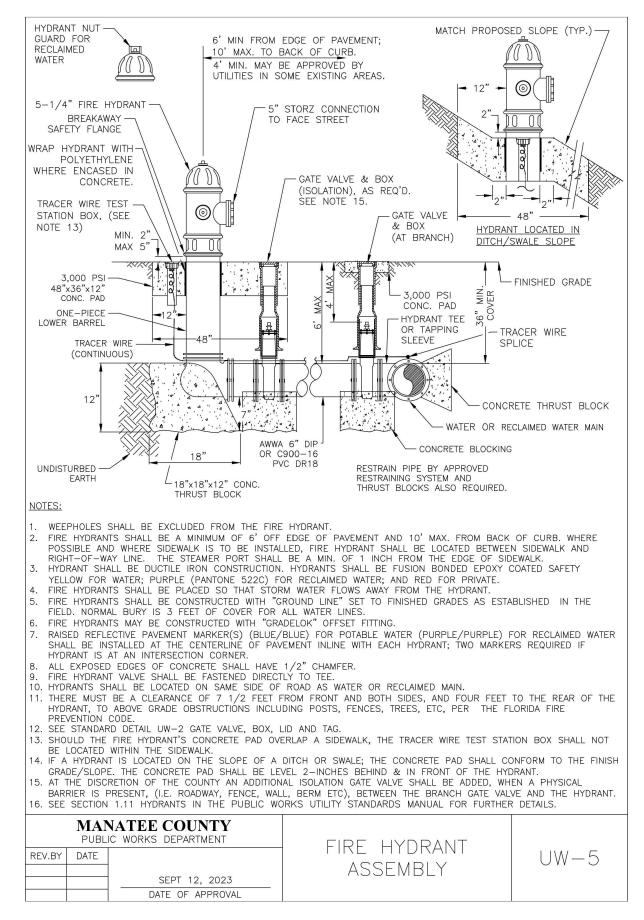
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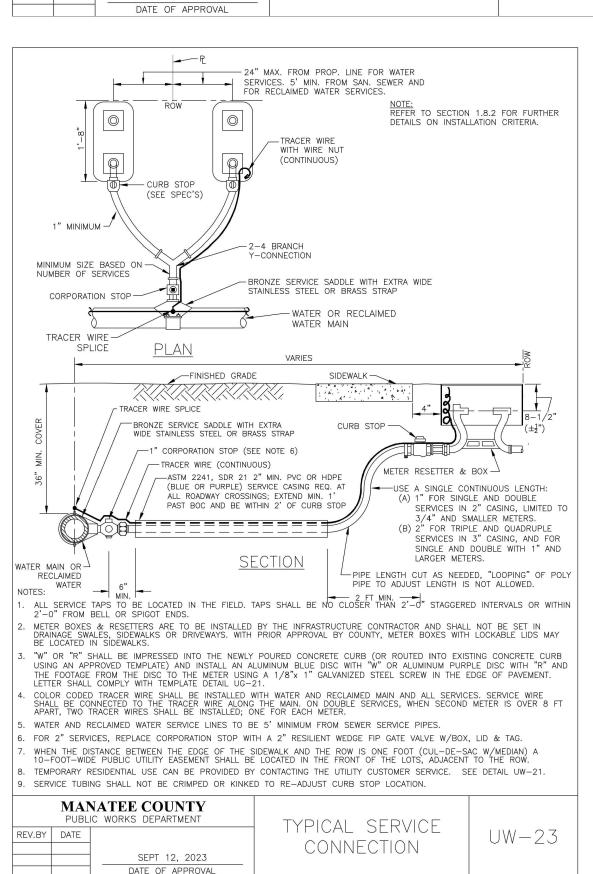


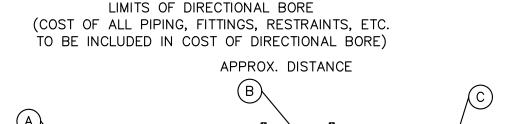


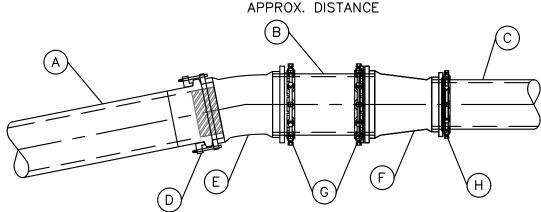










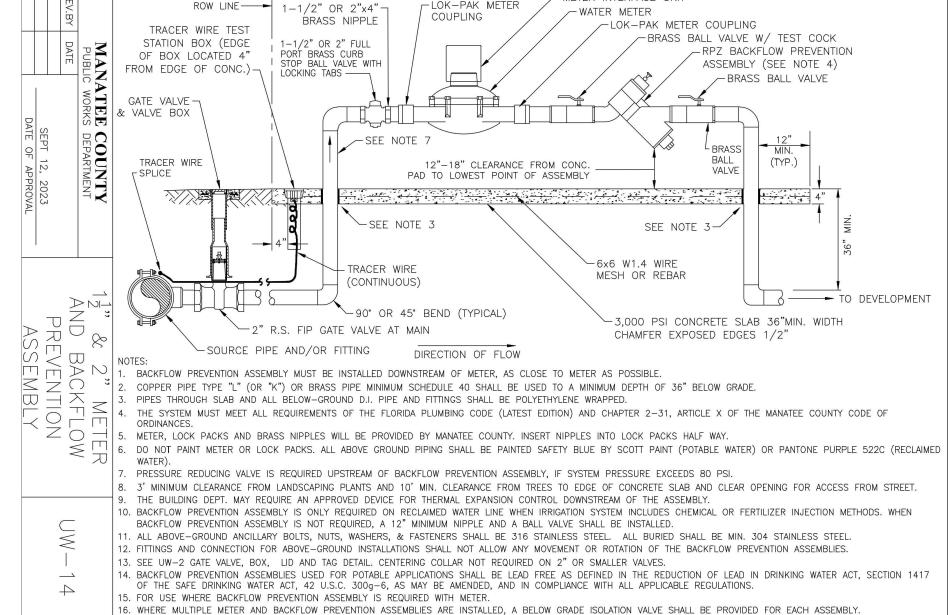


- HDPE PIPE (NOMINAL SIZE NOTED IN TABLE BELOW)
- 3 LF OF DI PIPE (NOMINAL SIZE NOTED IN TABLE BELOW)
- DI PIPE (NOMINAL SIZE NOTED IN TABLE BELOW)
- HDPE/DUCTILE IRON M.J. ADAPTER WITH GASKET SEAL AND STAINLESS STELL STIFFENER (NOMINAL SIZE NOTED
- 11.25° M.J. BEND (SIZE NOTED IN TABLE BELOW). REQUIRED FITTING SUBJECT TO CHANGE PER PLAN AND PROFILE
- M.J. REDUCER (SIZE NOTED IN TABLE BELOW). REQUIRED FITTING SUBJECT TO CHANGE PER PLAN AND PROFILE SHEETS.
- DI PIPE/M.J. JOINT RESTRAINT (SIZE NOTED IN TABLE BELOW)
- DI PIPE/M.J. JOINT RESTRAINT (SIZE NOTED IN TABLE BELOW)

DIAMETER OF DRILL PIPE	A	В	C	D	E	F	G	H
6"	6"	6"	4"	6"	6"	6"x4"	6"	4"
8"	8"	8"	6"	8"	8"	8"x6"	8"	6"
10"	10"	10"	8"	10"	10"	10"x8"	10"	8"
12"	12"	12"	10"	12"	12"	12"x10"	12"	10"
16"	16"	16"	12"	16"	16"	16"x12"	16"	12"
18"	18"	18"	16"	18"	18"	18"x16"	18"	16"
20"	20"	20"	16"	20"	20"	20"x16"	20"	16"
24"	24"	24"	20"	24"	24"	24"x20"	24"	20"



- METER INTERFACE UNIT



No.	REVISIONS	DATE	BY

DATE OF APPROVA

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KHA PROJECT 148400098 DATE DECEMBER 2024 SCALE AS SHOWN DESIGNED BY JWW

DRAWN BY

CHECKED BY

KMS

MANATEE COUNTY

SR 64 (MANATEE AVENUE) WATER MAIN

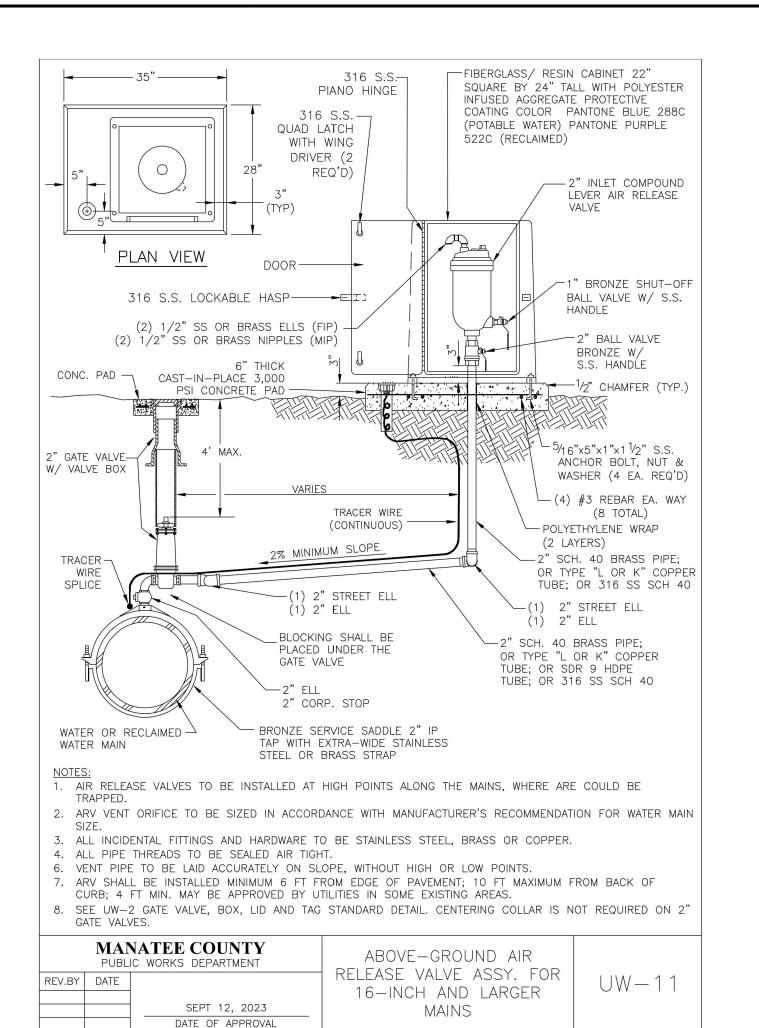
INTRACOASTAL CROSSING

LICENSED PROFESSIONAL

78652

FL DATE:

JORDAN W. WALKER, P.E. **DETAILS** FL LICENSE NUMBER



POST (OPTIONS 2"x2"x5 1/2' HIGH OR

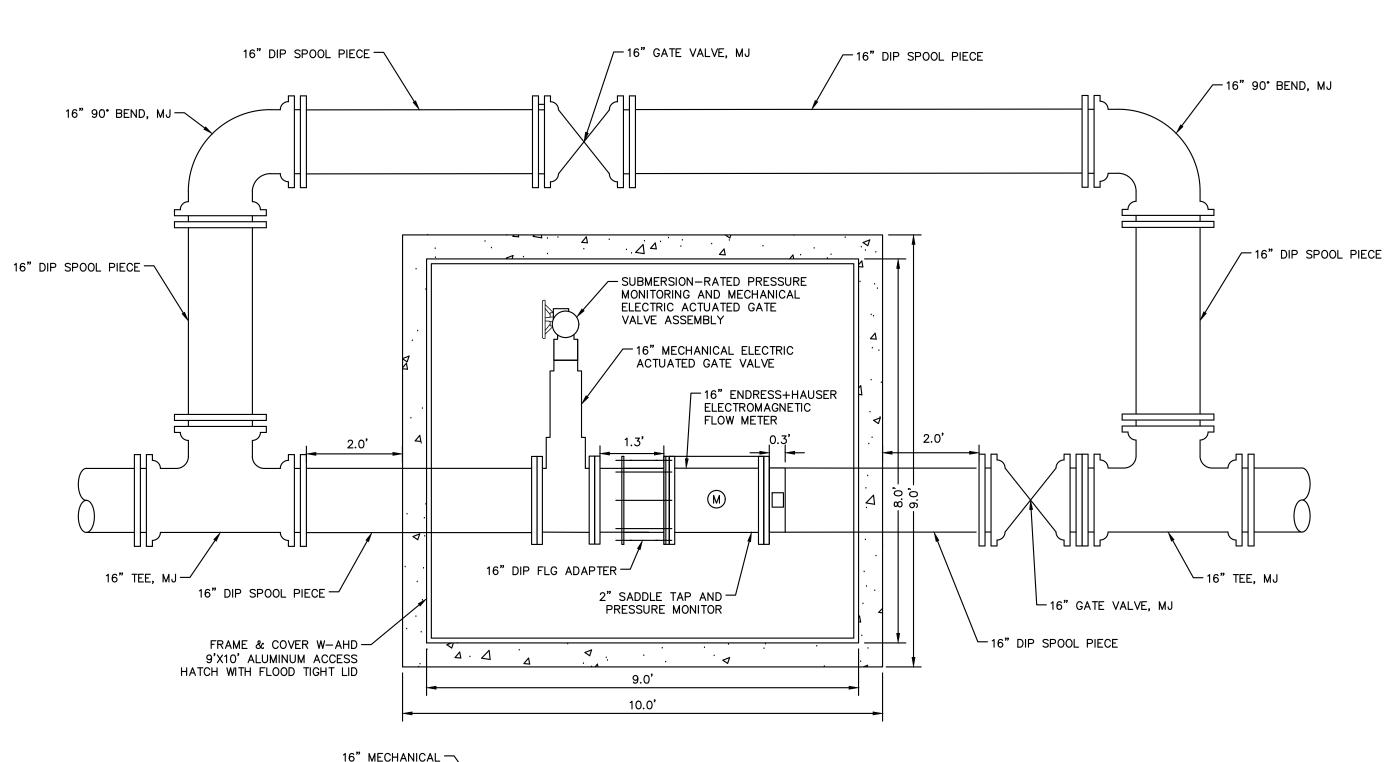
10' MAX.

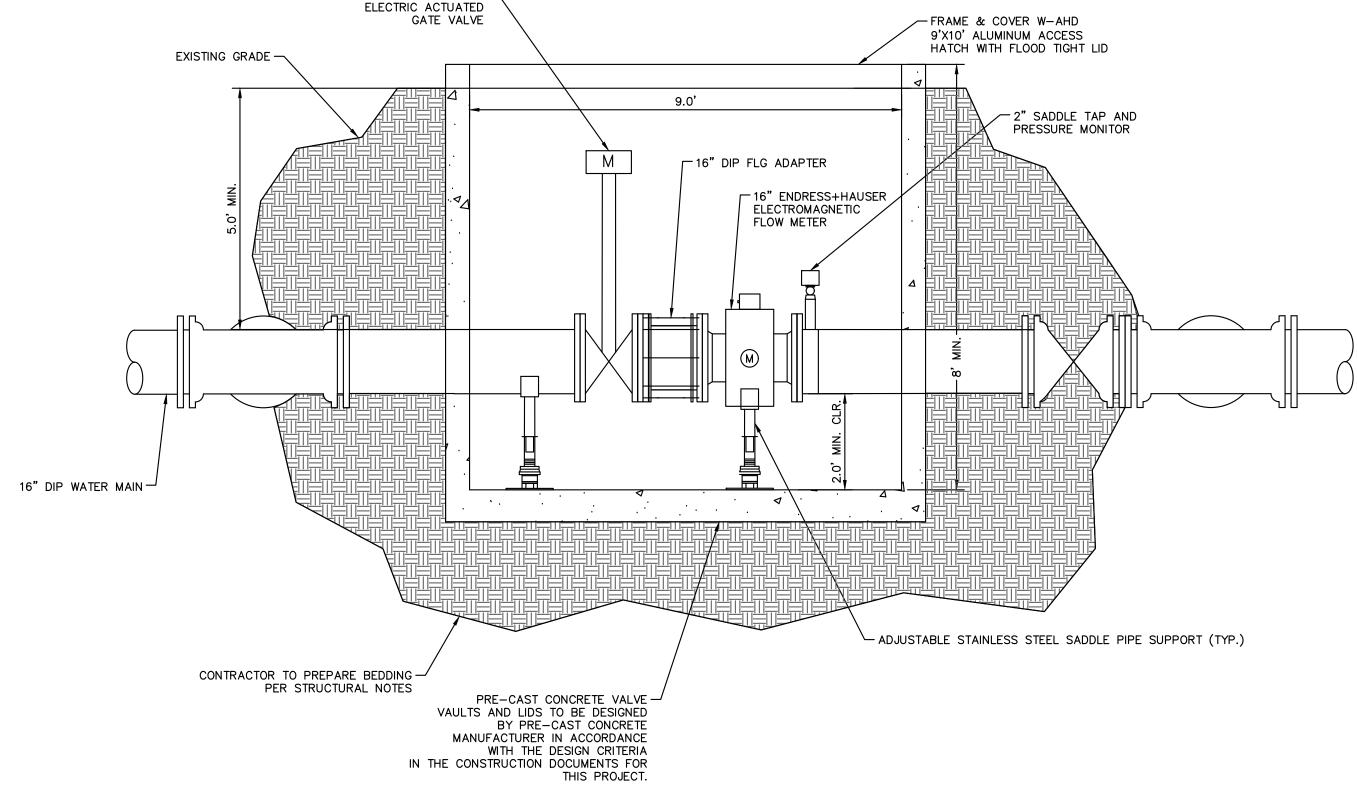
ELEVATION

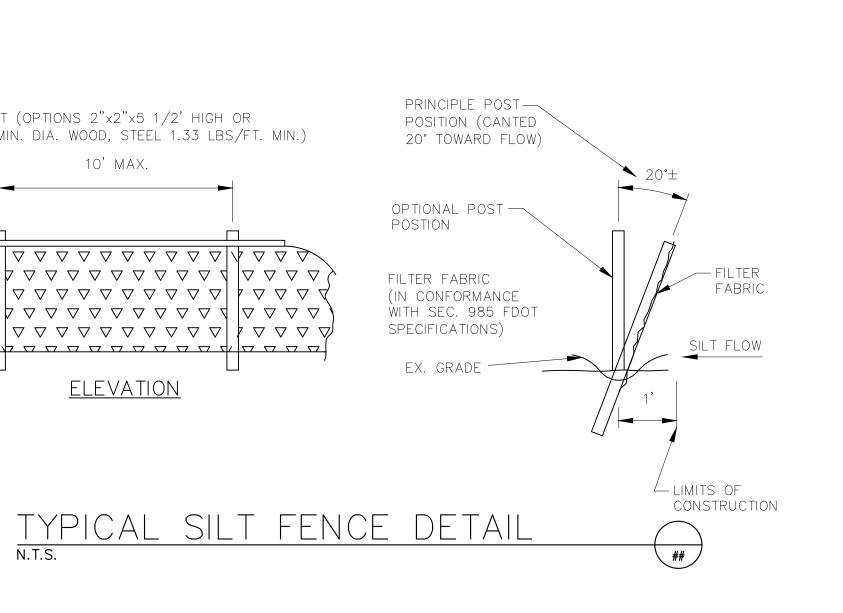
3" MIN. DIA. WOOD, STEEL 1.33 LBS/FT. MIN.)

STRUCTURAL NOTES:

- 1. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION AND ORDERING EQUIPMENT. CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCIES.
- 2. CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING EQUIPMENT, UTILITIES, STRUCTURES, AND PERSONNEL FROM DAMAGE OR INJURY DURING CONSTRUCTION.
- 3. STRUCTURAL DRAWINGS SHALL BE WORKED TOGETHER WITH MECHANICAL AND ELECTRICAL DRAWINGS TO PROPERLY LOCATE WALL PIPES, PIPE SLEEVES, ANCHOR BOLTS, BLOCKOUTS, ETC. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD BEFORE PROCEEDING WITH THE WORK.
- 4. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT FLOATATION OF STRUCTURES FULLY UNTIL CONSTRUCTED AND BACKFILL IS IN PLACE AND COMPACTED.
- 5. DESIGN CRITERIA AND LOADS: ACI 350-CONCRETE SANITARY ENGINEERING STRUCTURES ACI 318-BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ASTM C 478-STANDARD SPECIFICATIONS FOR PRECAST REINFORCED CONCRETE MANHOLE SECTIONS.
- DESIGN LIVE LOADS: AASHTO HS-20. REQUIRED ALLOWABLE SOIL BEARING CAPACITY= 2000 PSF. CONTRACTOR'S GEOTECHNICAL ENGINEER TO VERIFY PRIOR TO FABRICATION AND CONSTRUCTION.
- 6. CONCRETE SHALL HAVE A MINIMUM 4000 28-DAY COMPRESSIVE STRENGTH FOR VAULT LID AND MINIMUM COMPRESSIVE STRENGTH PER SPECIFICATIONS FOR SLAB ON GRADE.
- REINFORCING STEEL SHALL CONFORM TO ASTM 615 GRADE 60.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. CLEARANCE OF REINFORCING STEEL FROM THE FACE OF CONCRETE TO THE OUTERMOST TIE OR BAR SHALL BE 2", UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- 10. REMOVE ALL ORGANIC TOPSOIL, SURFACE VEGETATION, DEBRIS, ETC. A MINIMUM OF 6 INCH LIMEROCK BEDDING COMPACTED TO 98 % RELATIVE DENSITY SHALL BE PLACED UNDER THE WET WELL BASE SLABS. DEWATER EXCAVATION DURING WET WELL INSTALLATION. ALL WORK TO BE DONE IN THE "DRY".







WATER MAIN PRESSURE MONITORING AND VALVE ASSEMBLY EAST APPROACH DETAIL

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148400098 DATE DECEMBER 2024 SCALE AS SHOWN DESIGNED BY JWW DRAWN BY

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KHA PROJECT

MANATEE COUNTY

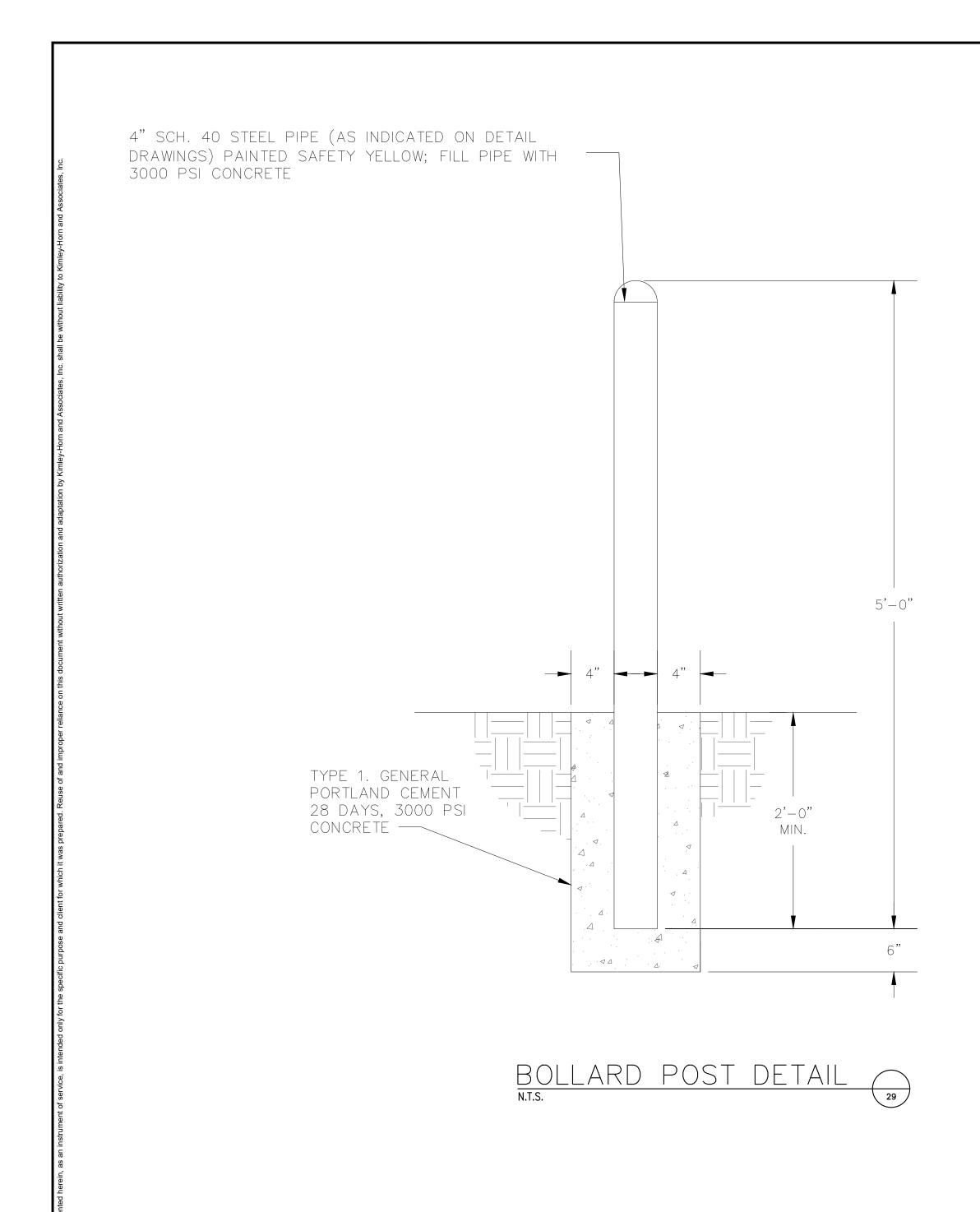
SR 64 (MANATEE AVENUE) WATER MAIN INTRACOASTAL CROSSING

JORDAN W. WALKER, P.E. FL LICENSE NUMBER FL DATE:

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28



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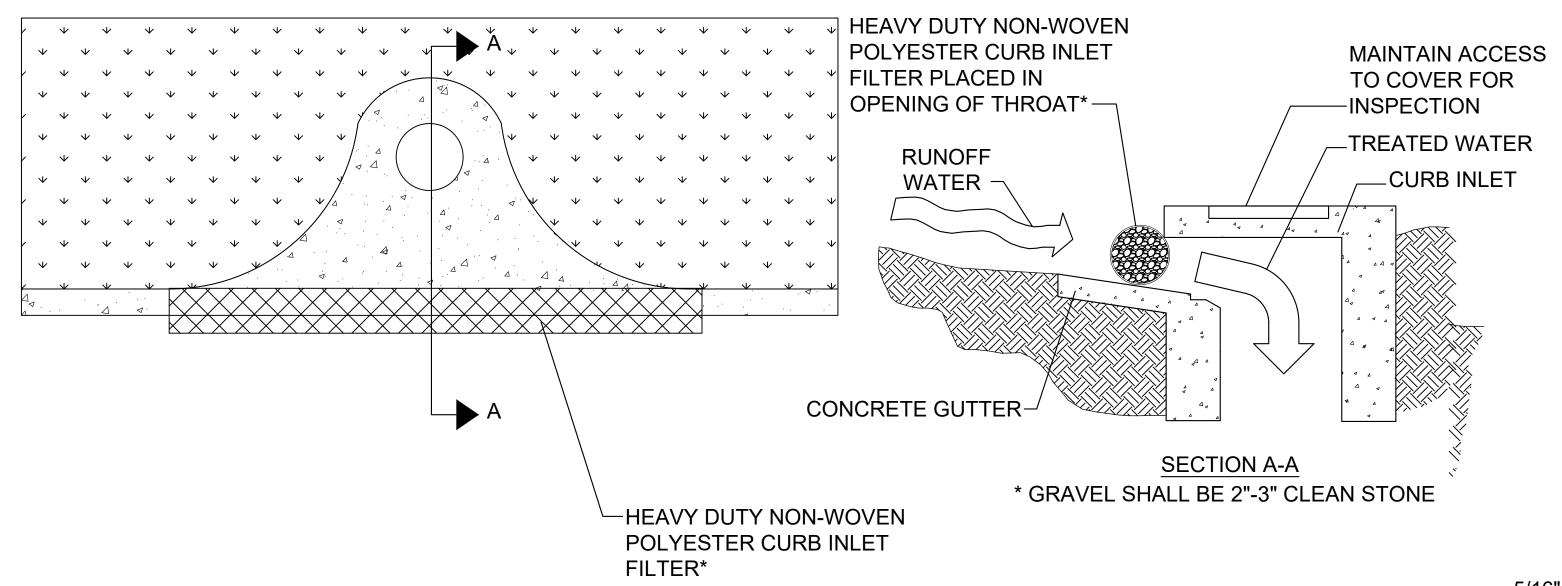
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SR 64 (MANATEE AVENUE) WATER MAIN INTRACOASTAL CROSSING FL DATE: KMS MANATEE COUNTY

LICENSED PROFESSIONAL JORDAN W. WALKER, P.E. FL LICENSE NUMBER

DETAILS

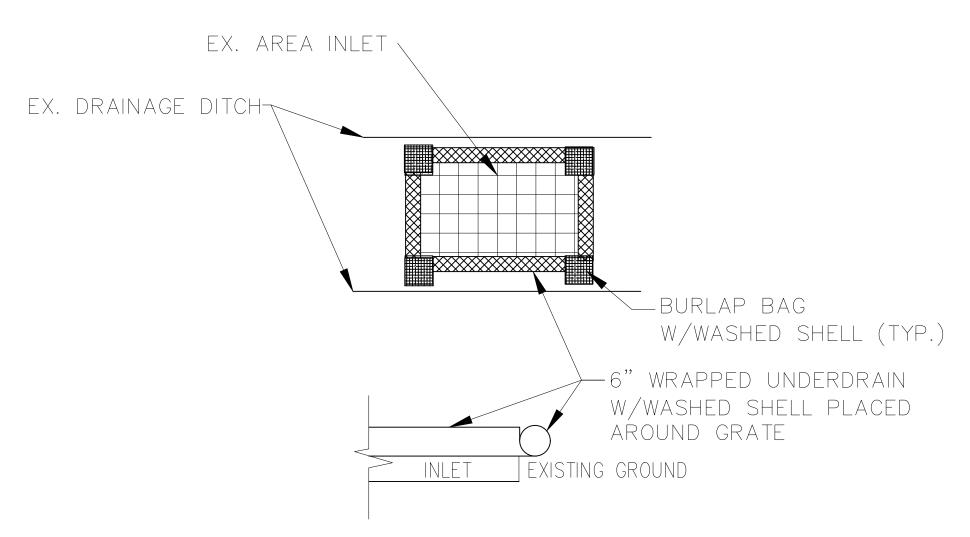
DETAILS	29



*WEIGHTED EROSION EELS MAY BE USED AS AN ALTERNATE

SOCK DRAIN INLET PROTECTION

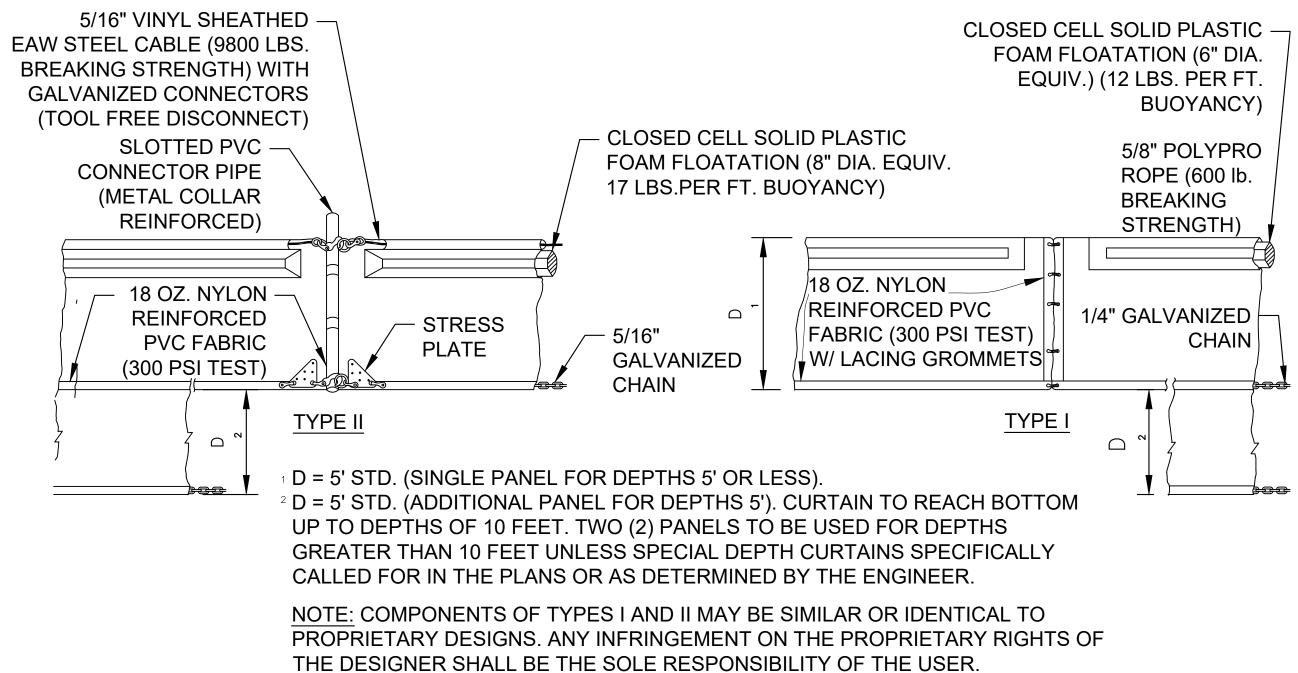
N.T.S.



COMPLETED INLET

INLET PROTECTION DETAIL

N.T.S.



FLOATING TURBIDITY BARRIERS

NTS

SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

No.	REVISIONS	DATE	BY	
				_

Kimley >>> Horn
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SCALE AS	SHOW
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MANATEE COUNTY

SR 64 (MANATEE AVENUE) WATER MAIN INTRACOASTAL CROSSING

LICENSED PROFESSIONAL
JORDAN W. WALKER, P.E.
fl license number 78652

FL DATE:

DETAILS 30

30