CONSTRUCTION PLANS FOR HOLMES BOULEVARD FORCE MAIN REPLACEMENT

MANATEE COUNTY, FLORIDA

JULY 2020

MANATEE COUNTY PROJECT #6041587



PROJECT TEAM:

OWNER: MANATEE COUNTY 1022 26TH AVE. E. BRADENTON, FL 34208 CONTACT: ROBERT HALBACH, P.E. 941–708–7450 EXT. 7329

ENGINEER:
KIMLEY—HORN AND ASSOCIATES, INC.
100 2ND AVENUE SOUTH, SUITE 105N
ST. PETERSBURG, FL 33701
CONTACT: MICHAEL SEMAGO, P.E.
727—498—3633

SURVEYOR: HYATT SURVEY SERVICES, INC. 11007 8TH AVENUE EAST BRADENTON, FL 34212 CONTACT:RUSSELL P. HYATT, PSM 941-748-4693

UTILITY CONTACTS:

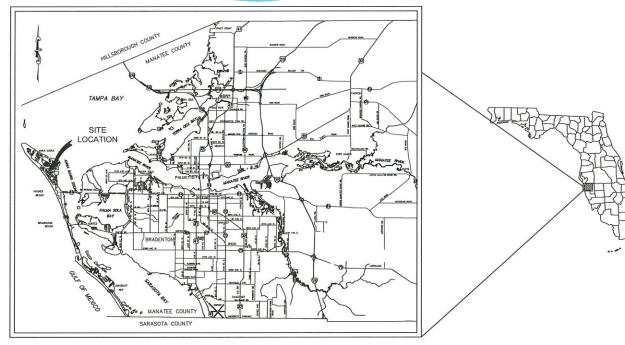
MANATEE COUNTY UTILITY OPERATIONS KATHY MCMAHON 4520 66TH STREET W BRADENTON, FL 34210 941-792-8811 EXT. 5002

FRONTIER COMMUNICATIONS TONI CANNON 3712 W WALNUT ST TAMPA, FL 33607 813-875-1014

FLORIDA POWER & LIGHT JOEL BRAY 4215 UP THE GROVE LANE WEST PALM BEACH, FL. 33407 386-586-6403 CHARTER COMMUNICATIONS DONALD ANTHONY 700 CARILLON PARKWAY, STE 6 ST PETERSBURG, FL 33716 727–329–2000 EXT. 42841

MANATEE COUNTY TRANSPORTATION DEPARTMENT AARON BURKETT 2904 12TH STREET COURT EAST BRADENTON, FL 34208 941-708-7509

TECO — PEOPLES GAS — SARASOTA JOAN DOMMING 8416 PALM RIVER RD TAMPA, FL 33619 813—275—3783



 $\mathsf{PROJECT}_{\mathsf{N.T.S.}}^{\mathsf{VICINITY}}\;\mathsf{MAP}$

BID PLANS



				-
THE SITE (
A FLORIDA				
THE SITE (
FILES AND ATTENTION	SIIE	CONST	RUCTIC	N PI
ATTENTION	FUR	CLARIF	IUMIIU	Y 450

SHEET

NUMBER

4-5

6

7-18

THIS DOCUMENT IS PROTECTED BY SECTION OF OF THE "UNITED STATES COPYRIGHT ACT REPRODUCTION OR ALTERATION OF THIS DECIMINATION OF THE INFORMATION CONTAINED HEREON BY MEANS WHATSOEVER IS STRICTLY PROHIBITED WITHOUT THE PRIOR WRITTEN CONSENT OF KIMLEY-HORN AND ASSOCIATES, INC. CONSENT HEREBY GRANTED SPECIFICALLY TO GOVERNMEN AGENCIES TO REPRODUCE THIS DOCUMENT IN

STATE OF

SHEET NUMBER

COVER SHEET

GENERAL NOTES

SURVEY & SUE NOTES

KEY SHEETS

PROJECT LOCATION MAP

PLAN & PROFILE

CONSTRUCTION DETAILS

STATE OF SHEET NUM

MEANS WHATSOEVER
WHOUT THE PRIOR
KIMLEY-HORN AND A
HEREBY GRANTED SP
AGENCIES TO REPRO!
COMPUBINCE WITH E-BEVIEIDINE DATE BY

- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION.
 THE PROJECT MANAGER IS: ROBERT HALBACH, P.E. AND CAN BE REACHED AT (941) 708-7450 X7329
- 3. ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANATEE COUNTY UTILITY AND TRANSPORTATION STANDARDS AND/OR FDOT "STANDARD PLANS 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 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 DE ENCOUNTED DURING THE COURSE OF WORK, ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION THEY MAY DEEM RICCESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT MILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS
- 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 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
- 8. NO WORK, EXCEPT FOR EMERGENCY TYPE, SHALL BE PERFORMED AFTER 7:00 PM AND BEFORE 7:00 AM, MONDAY THROUGH FRIDAY. CONTRACTOR SHALL ONLY WORK ALTERNATIVE WORK HOURS WITH COUNTY WRITTEN APPROVAL. 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. T MOST CURRENT SET OF RED-LINE DRAWINGS SHALL ALSO BE BROUGHT TO EACH MONTHLY PROGRESS MEETING.
- 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 SERVICE OPERATION.
- ALL PROPOSED WORK SHALL BE COORDINATED WITH MANATEE COUNTY UTILITIES DEPARTMENT AT LEAST TWO WEEKS IN ADVANCE OF PROPOSED CONSTRUCTION.
- 12. 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.
- 13. UNLESS OTHERWISE INDICATED OR APPROVED, ALL BELOW GROUND FORCE MAINS SHALL BE PVC PIPE PUSH-ON AND ALL BELOW GROUND WATER MAIN SHALL BE DUCTILE IRON PIPE. PIPE SHALL BE FULLY RESTRAINED PER THE DETAILS IN THESE PLANS.
- 14. ALL BELOW—GRADE FITTINGS 4—INCHES AND GREATER IN DIAMETER SHALL BE MECHANICAL JOINT DUCTILE IRON WITH AN APPROVED LINING FOR THEIR INTERIOR SURFACES AND COAL TAR ENAMEL COATING ON EXTERIOR SURFACES, SA NOTED IN SECTION 02615 OF SPECIFICATIONS.
- 15. IT SHALL BE THE CONTRACTOR'S 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 AREAS AND STAGING. THE COUNTY WILL COORDINATE AND ADVISE, TO HELP IDENTIFY POSSIBLE PARCELS, IT IS FINALLY THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE NEEDED AREAS, AND THE COUNTY TAKE NO RESPONSIBILITY FOR DELAYS IN THIS REGARD.
- 17. COORDINATION AND PUBLIC INFORMATION FOR AND WITH AREA RESIDENTS ARE OF THE LITMOST LOURDINATION AND PUBLIC INFORMATION FOR AND WITH AREA RESIDENTS ARE OF THE UTIMOST IMPORTANCE. CONTRACTOR WILL INSURE ADHERENCE TO THE COUNTY'S NOISE ORDINANCE, HAZARO 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.

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 SAFETY STANDARDS, 29 CFR 1926.6560, SUBPART P, AS AMENDED. THE CONTRACTOR SHALL INCLUDE IN THE TOTAL BID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS.
- THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.
- 20. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
- 21. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.

- 22. WHEN A BENTONITE SPILL OR FRACK-OUT OCCURS OR THERE IS A LOSS OF RETURN INDICATING EXCESSIVE SEEPAGE OR LOSS OF DRILLING FLUID, DRILLING MUST BE STOPPED UNTIL THE LOCATION OF THE SPILL IS IDENTIFIED. UNDER NO CIRCUMSTANCES WILL DRILLING CONTINUE WHEN A SPILL IS APPARENT.
- 23. ONCE LOCATED, THE BENTONITE SPILL MUST BE ISOLATED AND SEEPAGE INTO ANY NEARBY WATER BODIES MILL 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.
- 24. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY STORM WATER, EROSION, AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE FDEP "FLORIDA STORM WATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL". IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS AND TO DITCHES DURING CONSTRUCTION.
- 25. 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.
- 26. 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 IT ENGINEER BEFORE INSTALLATION. THIS WILL BE MAINTAINED TO PREVENT DEGRADATION OF TH WATERS OF THE COUNTY AND STATE.
- 27. 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 PROPERIES, OR INTO EXSISTING BODIES OF WATER, MUST BE INSTALLED, CONSTRUCTED, OR IN THE CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALLERATION PROCESS. SUCH SYSTEMS SHALL BE FULLY OPERATIVE BEFORE ANY OTHER DISTURBANCE OF THE SITE BEGINS. EARTHEN STRUCTURES INCLUDING BUT NOT LIMITED TO BERMS, EARTH FILETERS, DAMS OR DIKES SHALL BE STABILIZED

- AND PROTECTED FROM DRAINAGE DAMAGE OR EROSION WITHIN ONE (1) WEEK OF INSTALLATION.
- 28. 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.
- 29. 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 JUSTICIDICANAL AREAS. THESE SYSTEMS MAY INCLUDE STAKED HAY BALES, SILT SCREENS, FILTER FABRIC, AND TURBIDITY SCREENS.
- 30. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.
- 31. THE CONTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER WETLAND AREAS THAT MAY BE ON OR NEAR THE CONSTRUCTION SITE. ALL WORK IN THE VICINITY OF OPEN WATER AND/OR WETLANDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL REGULATIONS AND/OR PERMITS FOR THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FIRES RESULTING FROM HIS MOLATION OF ANY REGULATIONS OR PERMIT CONDITIONS.
 32. CONTRACTOR SHALL PROVIDE PORTOCITIVE MAITTING, FUEL CONTAINMENT AND ALL OTHER MATERIALS, EQUIPMENT AND LABOR TO PROTECT THE STAGING AREA DURING CONSTRUCTION.
- 33. 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.

- 34. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY RIGHT-OF-WAY, OTHER PUBLIC RIGHT-OF-WAYS OR EASEMENTS SHOWN ON THE DRAWINGS.
- 35, THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE AND RESTORE PROPERTY CORNER MONUMENTS, PINS, AND LANDMARKS THAT MAY BE DISTURBED BY CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- 36. THE CONTRACTOR, PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN ANY REQUIRED RIGHTS—OF—WAY USE PERMITS AND A TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER COVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT LORDIA DEPARTMENT OF TRANSPORTATION "MANUAL OF TRAFFIC CONTROL PAID SAFE PRACTICES", A TRAFFIC CONTROL PLAN SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING, PER SPECIFICATIONS
- 37. 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 FLOT. STANDARDS, OR THE APPLICABLE JURISDICTION, PRECONSTRUCTION VIDEO SHALL CAPTURE THE CONDITION OF THE STORM WATER SYSTEM MENTIONED ABOVE.
- 38. 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.
- 39. THE CONTRACTOR SHALL COORDINATE THE CUTTING OF DRIVEWAYS WITH THE PROPERTY OWNER PRIOR. ALL DRIVEWAYS MUST BE IN PASSABLE CONDITION AT THE END OF THE WORK DAY AND FULLY RESTORED.
- 40. A RIGHT OF ENTRY AGREEMENT SHALL BE OBTAINED BY THE CONSTRUCTION MANAGER FROM THE PROPERTY OWNER BEFORE ANY DRIVEWAY CONSTRUCTION WORK IS DONE OUTSIDE OF THE RIGHT-OF-WAY OR EASEMENT.

- 41. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA AND WHICH HAVE NOT BEEN LOCATED OR IDENTIFIED, MAY NOT BE IN THE EXACT LOCATION SHOWN OR RELOCATED SINCE THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES STRUCTURES AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) THAT MAY EFFECT HIS WORK, ALL EXISTING UTILITIES TO BE EXTENDED, CROSSED OR CONNECTION POINTS SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND ELEVATION. ANY DISCREDANCES OF CONSECURITY SOURCES, SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND ELEVATION. ANY DISCREDANCES OF CONSECURITY SOURCES, SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND ELEVATION. ANY DISCREDANCES OF CONSECURITY SOURCES.
- 42. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, DRIVEWAYS, SIDEWALKS, SIONS, 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.
- 43, THE CONTRACTOR SHALL USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED OR OFFERED BY FLORIDA POWER AND LIGHT TO PREVENT UNDERMINING OF POWER POLES DURING CONSTRUCTION. IF HOLDING OF POWER POLES IS RECOMMENDED OR REQUIRED BY THE UTILITY, THE CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE UTILITY AND BEAR ALL RELATED
- 44. ANY TEMPORARY SHUTDOWNS FOR MODIFICATIONS OF EXISTING UTILITY SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTIONS SHALL BE KEPT TO A MINIMUM AND SHALL BE COORDINATED WITH AND APPROVED BY THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. IT IS NOTED THAT TEMPORARY SHUTDOWNS MAY BE RESTRICTED TO CERTAIN HOURS AT ANY TIME OF THE DAY OR NIGHT AND WILL BE COMPLETED AT NO ADDITIONAL COST TO THE OWNER.
- 45. 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. CONTRACTOR 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/MATER MAIN. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO FEFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

RESTORATION

- 46. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
- 47. ALL DISTURBED GRASSED AREAS SHALL BE SODDED UNLESS OTHERWISE INDICATED. THE TYPE OF SOD USED TO REPLACE OWNER MAINTAINED AREAS IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER.
- 48. ALL CONCRETE THRUST BLOCKS INSTALLED FOR TESTING PURPOSES AND NOT REQUIRED FOR TH OPERATION OF THE PIPELINE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR, PRIOR TO FINAL ACCEPTANCE, AT NO ADDITIONAL COST TO THE OWNER.
- 49. ASPHALT DRIVES THAT ARE CUT SHALL BE RESTORED PER SECTION 02513.
- 50. CONCRETE DRIVEWAYS OR SIDEWALKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO THE CURRENT EDITIONS OF THE F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE DESION, SECTION 520 OF THE F.D.O.T. DESIGN STANDARDS.
- 51. WHENEVER A PERMANENT ROADWAY SUFFACE 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 CLITING.
- 52. RESTORATION OF CURBS, DRIVEWAYS, SIDEWALKS, AND PLACEMENT OF SOD SHALL BE COMPLETED WITHIN FORTY-FIVE CALENDAR DAYS OF INITIAL DISTURBANCE, OR TWENTY-ONE CALENDAR DAYS OF SUBSTANTIAL COMPLETION, WHICHEVER OCCURS FIRST.

- 53. 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.
- 54. 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.

- 55. THE EXHAUST SYSTEM OF ALL GASOLINE AND DIESEL ENGINES SHALL BE EQUIPPED WITH MUFFLERS THAT MEET THE EQUIPMENT MANUFACTURER'S REQUIREMENTS FOR NOISE SUPPRESSION. THE CONTRACTOR SHALL INSTALL NOISE ABATEMENT BAFFLES POSITIONED TO BREAK LINE—OF—SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES, AS APPROVED BY THE ENGINEER.
- 56. 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.
- 57. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
- 58. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.
- 59. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OR TRIMMING OF ANY TREE WITHIN THE CONSTRUCTION AREA.
- 60. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM.
- 61. ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN THE CONTRACT DOCUMENT AND SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS AND PROFILES.
- 62. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.
- 63. ALL FITTINGS FOR PRESSURE CLASS-RATED PIPE SHALL BE RESTRAINED DUCTILE IRON.
 RESTRAINED LENGTHS OF PIPE SHALL ADHERE TO THE REQUIREMENTS AS SHOWN ON THE DETAIL
- 64. 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.
- 65, 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.
- 66, ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES AND PUMP STATIONS ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
- 67. THE CONTRACTOR, PRIOR TO ANY TEMPORARY SHUT-OFFS 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. REFERENCE SECTION 01580, PARAGRAPH 1.03 OF THE SPECIFICATIONS. WHEN FEASIBLE, "DOOR HANGERS" SHALL BE DELIVERED TO AFFECTED OF THE SPECIFICATIONS. WHEN PLASTRICE, DOUR HANDERS SHALL BE DELIVERED TO AFFECTED RESIDENCES AT LEAST TWO DAYS (44 HRS) PRIOR TO 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 HOMEOWNERS ASSOCIATIONS AND THE RESPECTIVE CITY'S. WRITTEN NOTHICATIONS SHALL ALSO BE SENT TO THE BRADENTON HERALD, AMI SUN, ISLANDER, SARASOTA HERALD TRIBUNE, WEND RADIO, BURNESCHOT COMMUNITY CENTERS, INSPECTIONS, WATER TREATMENT PLANT, WATER MANAGER, HELPLINE, CUSTOMER SERVICE, AND THE MANATER COUNTY UTILITY OPERATIONS DEPARTMENT.
- 68. 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 FULG SHALL BE INSTALLED AND THE CORPORATION STOP SHALL REMAIN IN PLACE.
- 69, ALL EXISTING FORCE MAINS THAT ARE BEING REPLACED SHALL BE ABANDONED IN PLACE UPON ACCEPTANCE AND ACTIVATION OF THE NEW MAINS, ABANDONED MAINS SHALL BE CUT AND CAPPED, REFER TO SECTION 02064 OF THE SPECIFICATIONS FOR CUT AND CAPPING ABANDONED PIPE.
- 70. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.
- 71. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION FROM THE MANATEE COUNTY UTILITIES DEPARTMENT (MCUD) OFFICE OF INDUSTRIAL COMPILANCE PRIOR TO DEWATERING, COMPLETION OF A CONSTRUCTION DEWATERING AUTHORIZATION TO DISCHARCE APPLICATION IS REQUIRED. FILL OU FORM AS COMPLETELY AS POSSIBLE AS MISSING INFORMATION DELAYS THE APPROVAL PROCESS.
- THE MCUD OFFICE OF INDUSTRIAL COMPLIANCE WILL DETERMINE WHETHER A LETTER OF APPROVAL, A DISCHARGE AUTHORIZATION, OR A DISCHARGE PERMIT IS REQUIRED.
- 73. FOR SITES SUSPECTED OF CONTAMINATED GROUNDWATER MANATEE COUNTY WILL REQUIRE AN APPLICANT TO EMONSTRATE THAT THE DISCHARGE MEETS THE MANATEE COUNTY SEWER USE ORDINANCE.
- 74. 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 SHALL BE REPLACED FROM THE COLD STOP TO THE METER.

- 75. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH F.D.O.T. STANDARD PLAN INDICES NO. 600, 601, 602 603, 604, 605, AND 660 DEPENDING ON THE OPERATION BEING PERFORMED, FOR ALL TWO-LANE WORK, TWO-WAY, WORK OUTSIDE OF SHOULDER UTILIZE INDEX 102–601. FOR ALL TWO-LANE WORK, TWO-WAY, WORK ON SHOULDER UTILIZE INDEX 102–602. FOR ALL TWO-LANE WORK, TWO-WAY, WORK WITH IN TRAVEL LANE UTILIZE INDEX 102–603. FOR ALL TWO-LANE WORK, TWO-WAY, WORK WITH IN INTERSECTION UTILIZE INDEX 102–604. FOR ALL TWO-LANE WORK, TWO-WAY, WORK NEAR INTERSECTION UTILIZE INDEX 102–604. FOR ALL TWO-LANE WORK, TWO-WAY, WORK NEAR INTERSECTION UTILIZE INDEX 102–605. FOR PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALK, UTILIZE INDEX 102–660.
- 77. 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.
- 78. PEDESTRIANS, BICYCLES, AND WHEELCHAIRS: AT THE END OF EACH WORKDAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP-OFF ADJACENT TO A SIDEWALK SHALL BE BACKFILLED AT A SLOPE NOT TO EXCEED 1:4, OR SHALL BE PROTECTED IN ACCORDANCE WITH STANDARD INDEX SO.

DROP-OFF ADJACENT TO A SUCKMALL STREET OR STANDARD INDEX 600.

79. PEDESTRIAN AND WHEELCHAIR TRAFFIC SHALL BE ACCOMMODATED UTILING STANDARD INDEX 660.

80. ONE PORTABLE VARIABLE MESSAGE SIGN SHALL BE USED IN ADVINCE OF EXCHAINGE COSCINE THE FOLLOWING ARE SUGGESTED MESSAGES TO USE IN THE PEDESTRIAN PROPERTY OF II ONEER LICENSED PROSSIONAL LICENSED PROTESSIONAL
STATE OF
MCHAEL A. SEMAGO, P.E.
ORIO
LICENSED NAMES

- B1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF STORMWATER FROM ROADWAYS UTILIZED FOR TRAFFIC CONTROL IN A MANNER APPROVED BY THE ENGINEER.
- 82. AT THE END OF EACH WORKING DAY'S ACTIVITY, TEMPORARY PAVEMENT MARKINGS AND TEMPORARY RPM'S SHALL BE INSTALLED PR-IOR TO OPENING THE LANES UP FOR TRAFFIC.
- 84. 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 AND PRIOR TO OPENING.
- 85. MILLING AND RESURFACING SHALL BE ACCOMPLISHED DURING THE OFF-PEAK HOURS.
- 86. THE CONTRACTOR IS RESPONSIBLE TO RETIME THE TRAFFIC SIGNALS WITHIN THE PROJECT LIMITS (INCLUDING LIMITS OF WORK ZONE TRAFFIC CONTROL). THAT ARE POTENTIALLY AFFECTED DURING VARIOUS PHASES OF CONSTRUCTION. COORDINATE ALL SIGNAL RETIME EFFORTS WITH MANATES COUNTY TRAFFIC ENGINEERING, MUKUNDA GOPALAKRISHNA, P.E., PTOE, AT 941-749-3500, EXT. 7813.
- 87. CONTRACTOR TO MAINTAIN VEHICLE DETECTION IN OPERATION FOR LANES THAT WILL REMAIN OPEN. CONTRACTOR TO COORDINATE ALL VEHICLE DETECTION ISSUES WITH MANATEE COUNTY TRAFFIC ENGINEERING, MSHAL S. KAKKAD, P.E., PTOE, AT 941–749–3500 EXT 7812 OR WISHALKAKKADOM/MANATEE.ORG
- 88. MAINTENANCE OF TRAFFIC AND ANY SIGNAL RETIMING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR
- 89. ANY SIGNAL RETIMING REQUIRED FOR THE INTERSECTIONS IMPACTED BY THE PROJECT WILL BE THE RESPONSIBILITY OF THE CONTRACTORS, SIGNAL TIMING MODIFICATIONS TO BE SUBMITTED TO MANATER COUNTY TRAFFIC ENGINEERING, ATTENTION, MR. MUKUNDA GOPALAKRISHNA FOR REVIEW AND APPROVAL AT LEAST 15 WORKING DAYS BEFORE PROPOSED CHANGES, THIS DOES NOT GOVERN EMERGENCY STUATHONS, PERDING THE APPROVAL OF THE ENGINEER.
- 90, 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.

WORK SCHEDULE COORDINATION

- 91. COORDINATE ALL LIFT STATION SHUT DOWNS WITH NICK WAGNER, 941—792—8811 X 5377 OR NICK.WAGNER@MYMANATEE.ORG
- 92. COORDINATE ALL WATER MAIN TIE-INS WITH ROBBY PHILLIPS, 941-792-8811 X 5149 OR ROBBY.PHILLIPS@MYMANATE.CRG. PROPOSED WORK INVOLVES MULTIPLE WATER MAIN ISOLATIONS WHICH ARE POSSIBLE WITH UPSTREAM AND DOWNSTREAM VALVES. COOTRACTOR SHALL COORDINATE WITH COUNTY OPERATIONS TO ISOLATE WATER MAINS.
- 93. CONTRACTOR SHALL ABIDE BY ALL CITY OF HOLMES BEACH REQULATIONS 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 APPROVE IN WRITING BY THE CITY OF HOLMES BEACH IN ADVANCE. CONTRACTOR SHALL APPLY FOR A RIGHT-OF-WAY PERMIT WITH CITY OF HOLMES BEACH PRIOR TO STARTING CONSTRUCTION, CONTACT LYNN BURNETT, 941–326–3775 OR CITYENGINEER OHOLMESBEACHFLORG
- 95, CONTRACTOR SHALL COORDINATE DIRECTLY WITH THE COUNTY PUBLIC OUTREACH MANAGER AND APPROVED COUNTY CONSULTANTS TO ADDRESS ANY COMPLAINTS.
- 96, 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.

SD — STORM DRAIN
EX. — EXISTING
BT — BURIED TELEPHONE
UC — UNDERGROUND CONDUIT
DBC — DIRECT BURIED CABLE
FOC — FIBER OPTIC CABLE
SS — SANITARY SEVER
FM — FORCE MAIN
WATER MAIN
RW — RECLAIM WATER MAIN
ECP — ELLIPTICAL CONCRETE PIPE

ABBREMATIONS

RESTRAINED JOINT
W RIGHT-OF-WAY
P REINFORCED CONCRETE PIPE
W AIR RELEASE VALVE
P HIGH DENSITY POLYETHYLENE
D POLYWNYL CHLORIDE
NATURAL GROUND
CATCH BASIN

KIMLEY HORN LEGEND

PROPOSED WATER/FORCE MAIN EX. FORCE MAIN -XFM-02------X WT 3-----X WT 3-----X WT 3---

EX. STORM

EX. BURIED TELEPHONE/FIBER EX. FIBER OPTIC CABLE ---FOC ---

EX. BURIED ELECTRIC

EX. GAS EX. RECLAIM WATER

EX. OVERHEAD UTILITIES

FULL ROADWAY RESTORATION SIDEWALK / CONCRETE DRIVEWAY REPAIR [XXXXXXXX]

BRICK DRIVEWAY RESTORATION

SHELL DRIVEWAY RESTORATION POPOPOPOPOPOPOPOPOPO MILLING AND RESURFACING

INFILTRATION TRENCH REPLACEMENT 6363636363636363636363636363636363

SHEET NUMBER

GENERAL NOTES

2

REVISIONS DATE BY

Kimley » Horn © 2019 KIMLEY-HORN AND ASSOCIATES, INC. 100 2ND AVENUE SOUTH, SUITE 105N, ST. PETERSBURG, FL 33701

PHONE: 727-547-3999

WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148400036 7/14/2020 SCALE AS SHOWN DESIGNED BY MAS DRAWN BY JVM

HOLMES BOULEVARD FORCE MAIN REPLACEMENT CHECKED BY WEW MANATEE COUNTY

GENERAL NOTES

- 1. THE FOLLOWING NGS VERTICAL CONTROL MONUMENT WAS RECOVERED AND UTILIZED FOR THE ELEVATIONS INDICATED HEREIN: "GIS 100" PID AG9205 NAVD 1988 ELEVATION 2.56"
- 2. THIS SURVEY IS REFERENCED TO A PROJECTION OF THE FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE NAD 1983/2011 ADJUSTMENT).
- 3. THIS IS NOT A BOUNDARY SURVEY. TITLE WORK WAS NOT PROVIDED.
- 4. THIS SURVEY IS SUBJECT TO PERTINENT EASEMENTS, RIGHTS-OF-WAY AND RESTRICTIONS OF RECORD, IF ANY.
- 5. THIS SURVEY DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF THE PARTY OR PARTIES CERTIFIED TO BELOW FOR THE EXPRESS PURPOSE STATED HEREON AND/OR CONTAINED IN THE CONTRACT BETWEEN HYATT SURVEY SERVICES, INC. AND THE CLIENT FOR THIS PROJECT. COPYING, DISTRIBUTING AND/OR USING THIS DRAWING, IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN ORIGINALLY INTENDED WITHOUT WRITTEN CONSENT FROM HYATT SURVEY SERVICES, INC. IS STRICTLY PROHIBITED AND RENDERS THE SURVEYOR'S CERTIFICATION, SIGNATURE AND SEAL NULL AND VOID. ANY QUESTIONS CONCERNING THE CONTENT OR PURPOSE OF THIS DRAWING SHOULD BE DIRECTED TO HYATT SURVEY SERVICES, INC.

SITE CONTROL

DESIGNATION	NORTHING	EASTING	ELEVATION	DESCRIPTION	STATION	OFFSET
1	1156410.66	422776.93	2.81'	ND (LB 7203)	50+19.94	17.05' LT
2	1156091.67	422971.59	2.39'	ND (LB 7203)	53+92.47	10.54' RT
3	1155779.25	423241.97	2.25'	ND (LB 7203)	58+05.07	11.15' LT
4	1155382.58	423543.01	2.19'	ND (LB 7203)	63+03.08	5.44' LT
5	1154966.10	423769.24	2.66'	IRC (LB 7203)	67+76.05	16.68' RT
6	1154561.78	424046.18	2.75'	ND (LB 7203)	100+12.73	6.95' LT
10	1154170.70	424222.76	2.38'	IRC (LB 7203)	76+92.52	17.37' RT
11	1153902.70	424360.98	2.49'	ND (LB 7203)	79+95.21	12.03' LT
12	1153526.78	424426.10	2.42'	ND (LB 7203)	83+77.02	12.84' LT
13	1153497.54	424793.08	2.85'	ND (LB 7203)	94+17.72	14.42' RT
14	1155095.09	423891.84	2.62'	ND (LB 7203)	122+18.86	5.96' RT
4.0	1155110 47	404000 50	0.10'	ND (10 7007)	100.00.00	10 70 17

	LEGEND				
вм-₽	SITE CONTROL POINT	R/W	RIGHT-OF WAY		
0	IRON PIPE FOUND	ND	NAIL W/ DISC		
•	IRON ROD FOUND	IRC	IRON ROD W/ CAP		
н	CONCRETE MONUMENT FOUND	. ¥ .			
\boxtimes	GRATE INLET	A STATE OF THE STA	PINE		
	MITERED END SECTION		-		
	STORM MANHOLE	X	PALM		
ď	MAILBOX				
0	GAS MARKER				
0	BOLLARD	3	TREE		
Φ	CLEANOUT	STE	INCL		
PP-	SIGN				
\Diamond	WOOD UTILITY POLE				
ø	CONCRETE UTILITY POLE				
\leftarrow	GUY WIRE				
	WATER METER				

₩ WATER VALVE S SANITARY MANHOLE

-O- BACKFLOW PREVENTER ■ COMMUNICATION MARKER UTILITY RISER UTILITY HANDHOLE

		UTILITY LOCATION	
DESIGNATION	GRADE	DESCRIPTION	TOP UTILITY EL
VVH 1	2.70'	2" PVC WL (MANCO)	0.93'
VVH 2	2.93'	2" PE FOC (VERIZON)	0.38'
VVH 3	2.87'	1.25" PE BT (VERIZON)	0.25'
VVH 4	2.32'	6" DIP WM (MANCO)	-1.19'
VVH 5	2.30'	(1) 4" PVC BT & (1) 2" PE BT (VERIZON)	0.44'
VVH 6	2.54'	16" DIP FM (MANCO)	-0.39'
VVH 7	2.38'	(1) 4" PVC BT & (1) 2" PE BT (VERIZON)	0.36'
VVH 8	2.26'	16" DIP FM (MANCO)	-2.32'
VVH 9	2.12'	16" DIP WM (MANCO)	-0.74'
VVH 10	2.24'	1.25" PE FOC (VERIZON)	-0.06'
VVH 11	2.53'	4" DIP WM (MANCO)	0.39'
VVH 12	2.84'	4" DIP WM (MANCO)	-0.43'
VVH 13	2.29'	(1) 1.5" PE BT, (1) 2" PE BT, & (1) 3" PE BT (VERIZON)	0.36'
VVH 14	2.65'	2" GAS MAIN (MANCO)	-0.20¹
VVH 15	2.49'	2" GAS MAIN (MANCO)	0.29'
VVH 16	2.30'	2" PVC GAS MAIN (MANCO)	1.13'
VVH 17	2.02'	2" PVC WL (MANCO)	0.29'
VVH 18	2.44'	6" DIP WM (MANCO)	-1.51'
VVH 19	2.34'	6" DIP WM (MANCO)	-4.66'
VVH 20	1.77'	2" PE GAS MAIN (MANCO)	-3.38'
VVH 21	1.79'	4" A/C WM (MANCO)	-0.46'
VVH 22	1.93'	1.5" STEEL WL (MANCO)	1.07'
VVH 23	1.87'	(1) 2" PE GAS MAIN & (1) 4" PE GAS MAIN (MANCO)	0.27'

No. REVISIONS	DATE BY	1
		1
		1
		Γ

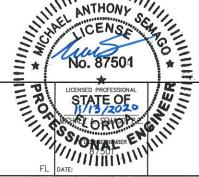
© 2019 KIMLEY-HORN AND ASSOCIATES, INC. 100 2ND AVENUE SOUTH, SUITE 105N, ST. PETERSBURG, FL 33701 PHONE: 727-547-3999 WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148400036 DATE 7/14/2020 SCALE AS SHOWN DESIGNED BY MAS DRAWN BY JVM

CHECKED BY WEW MANATEE COUNTY



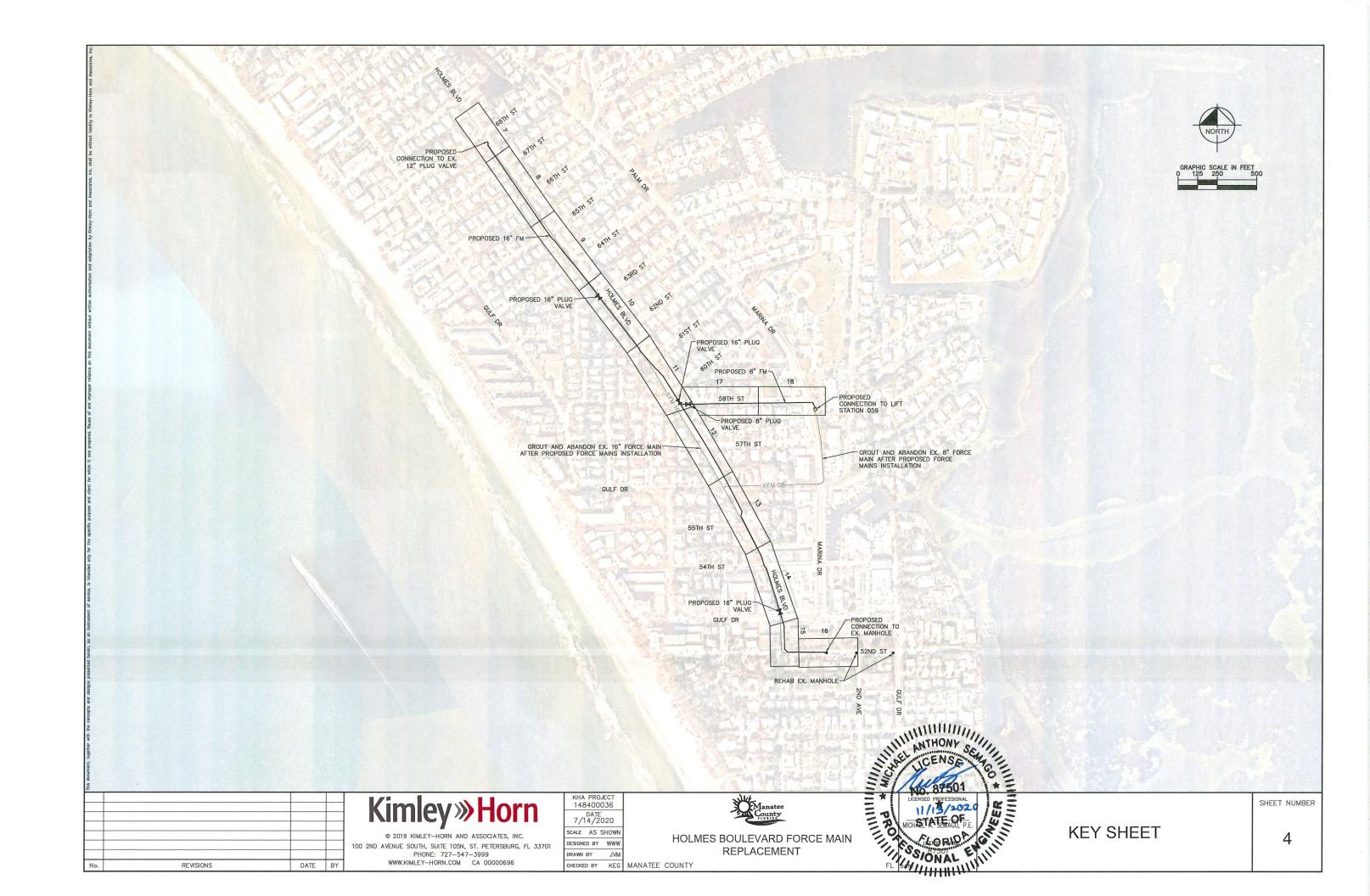
HOLMES BOULEVARD FORCE MAIN REPLACEMENT



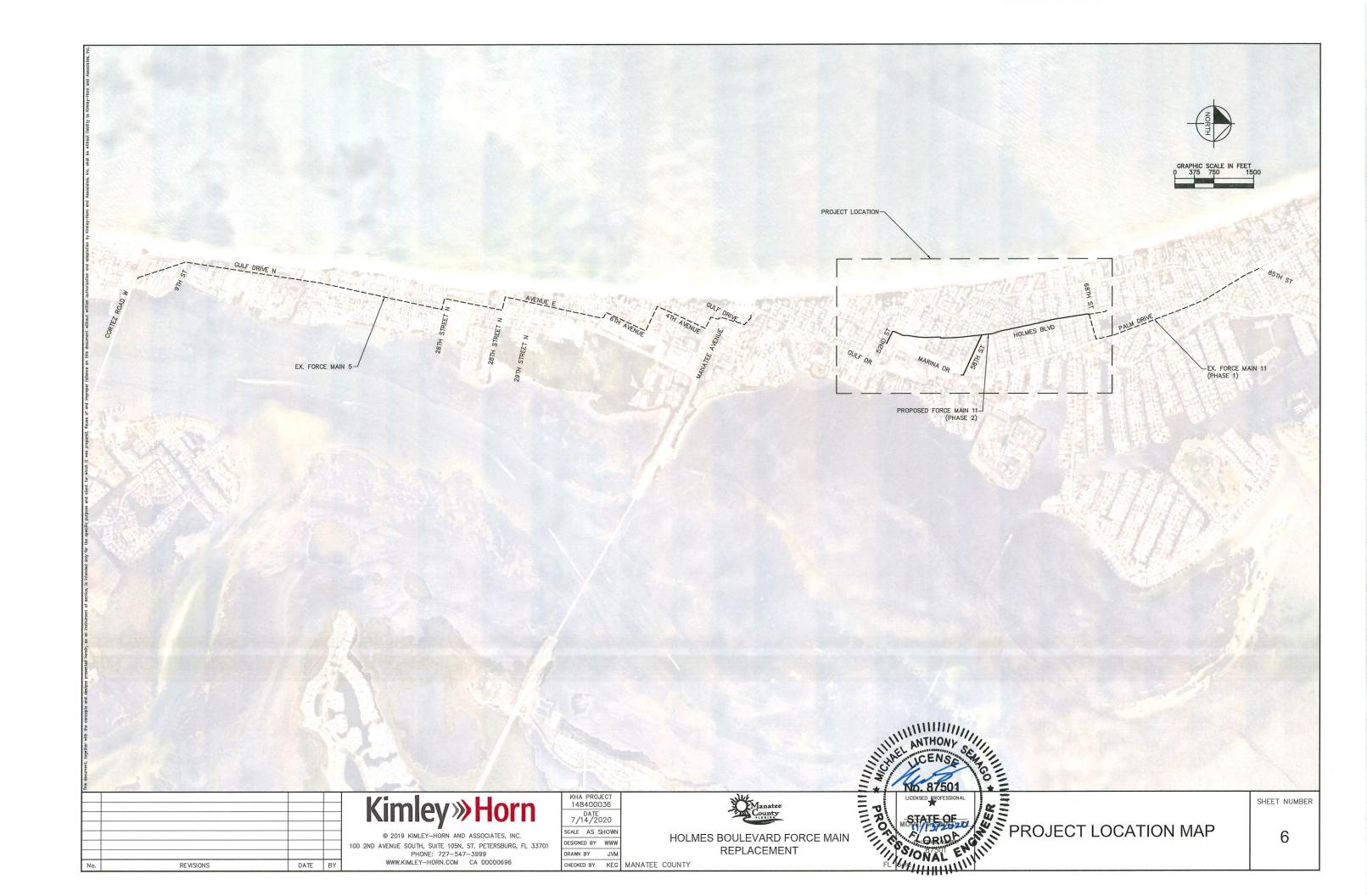
SHEET NUMBER

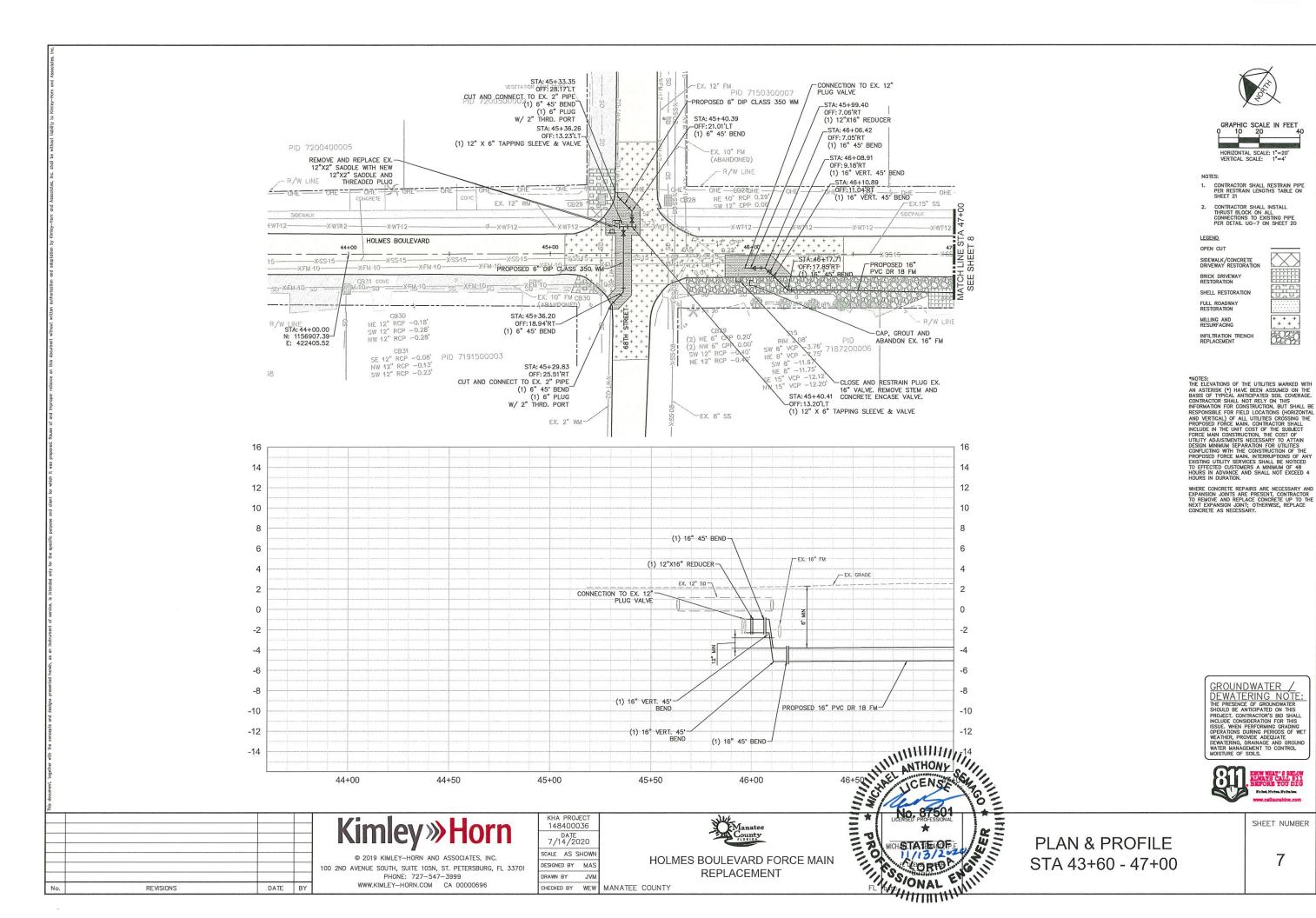
SURVEY & SUE NOTES

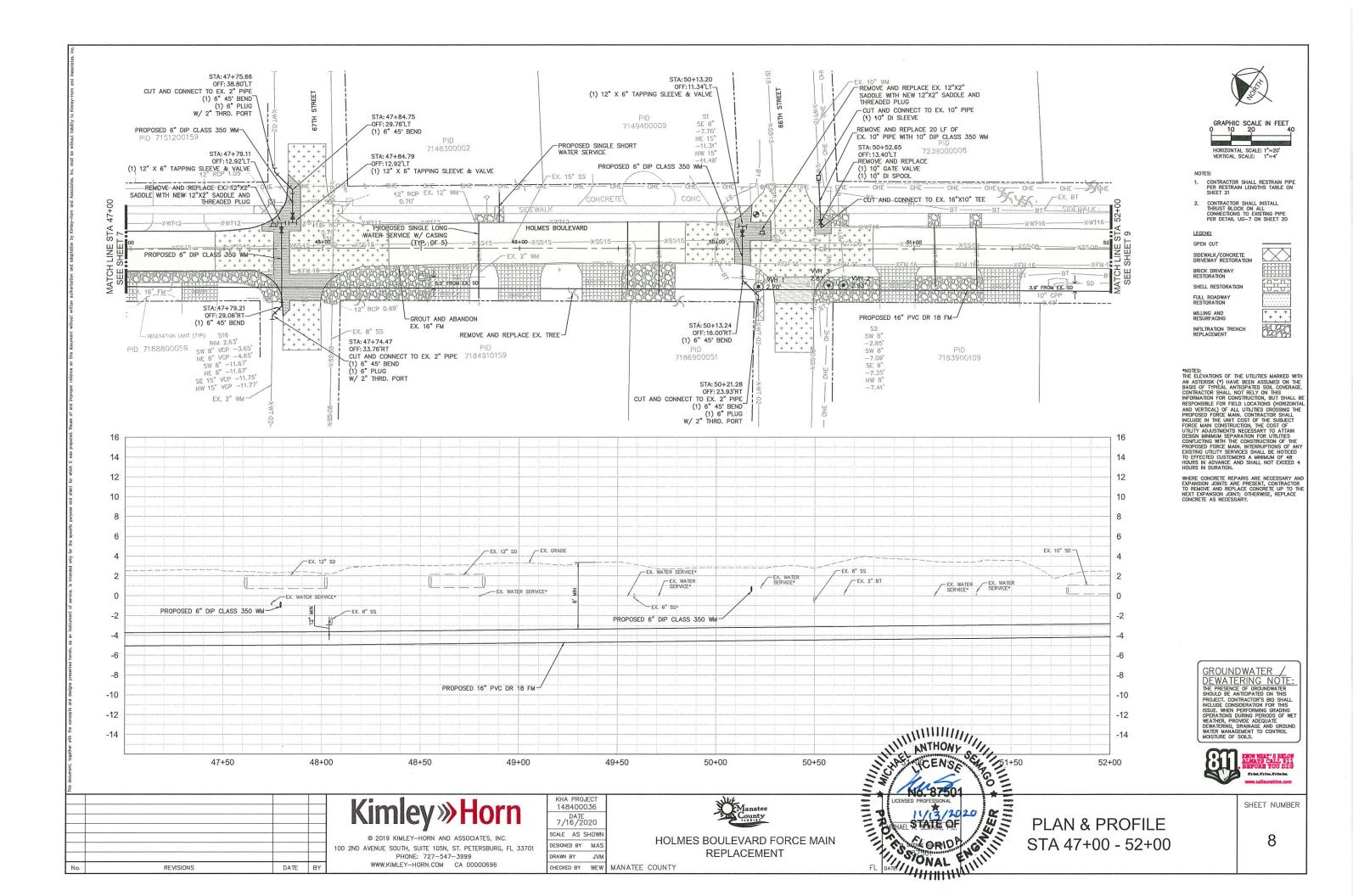
3

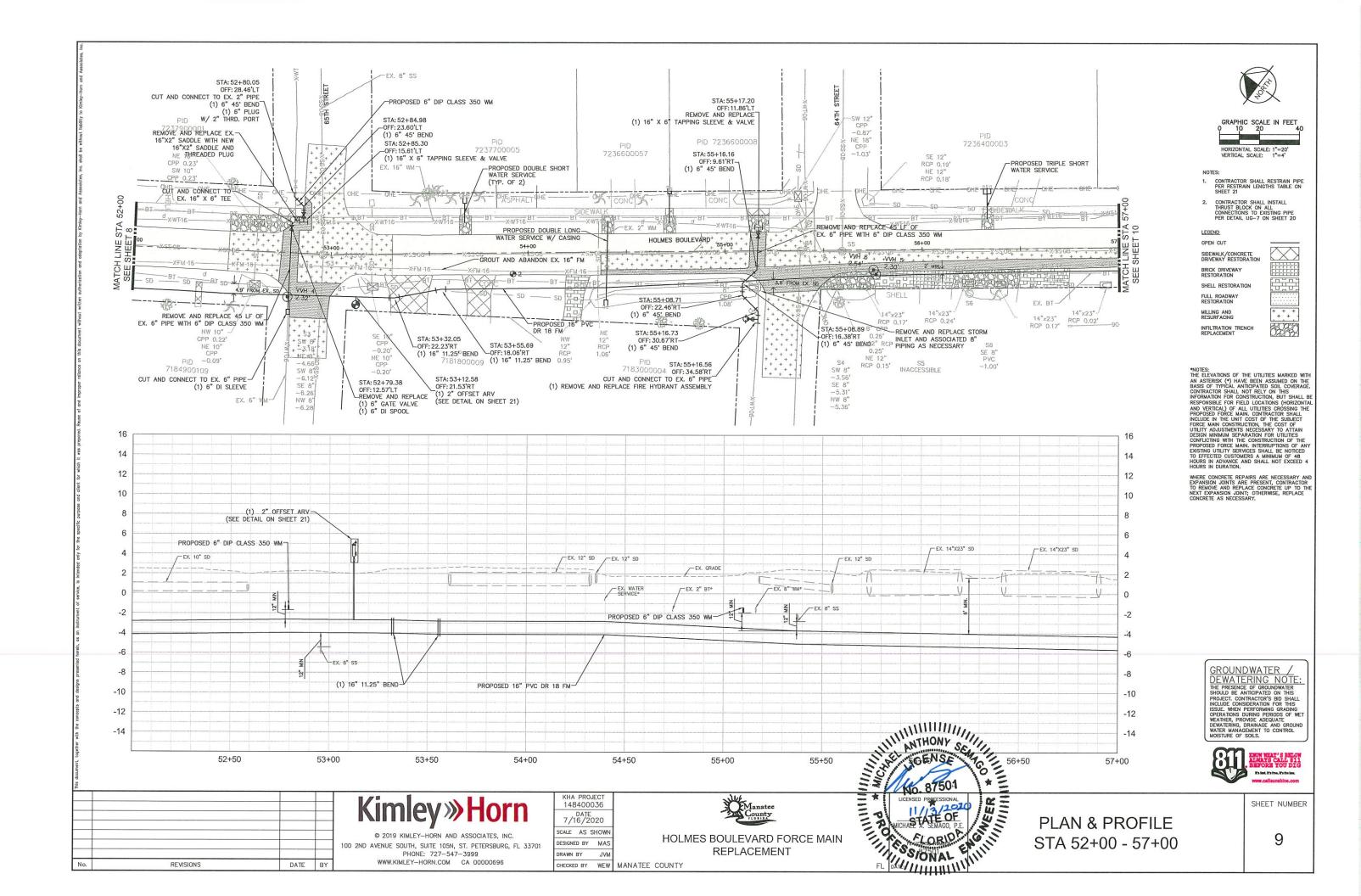


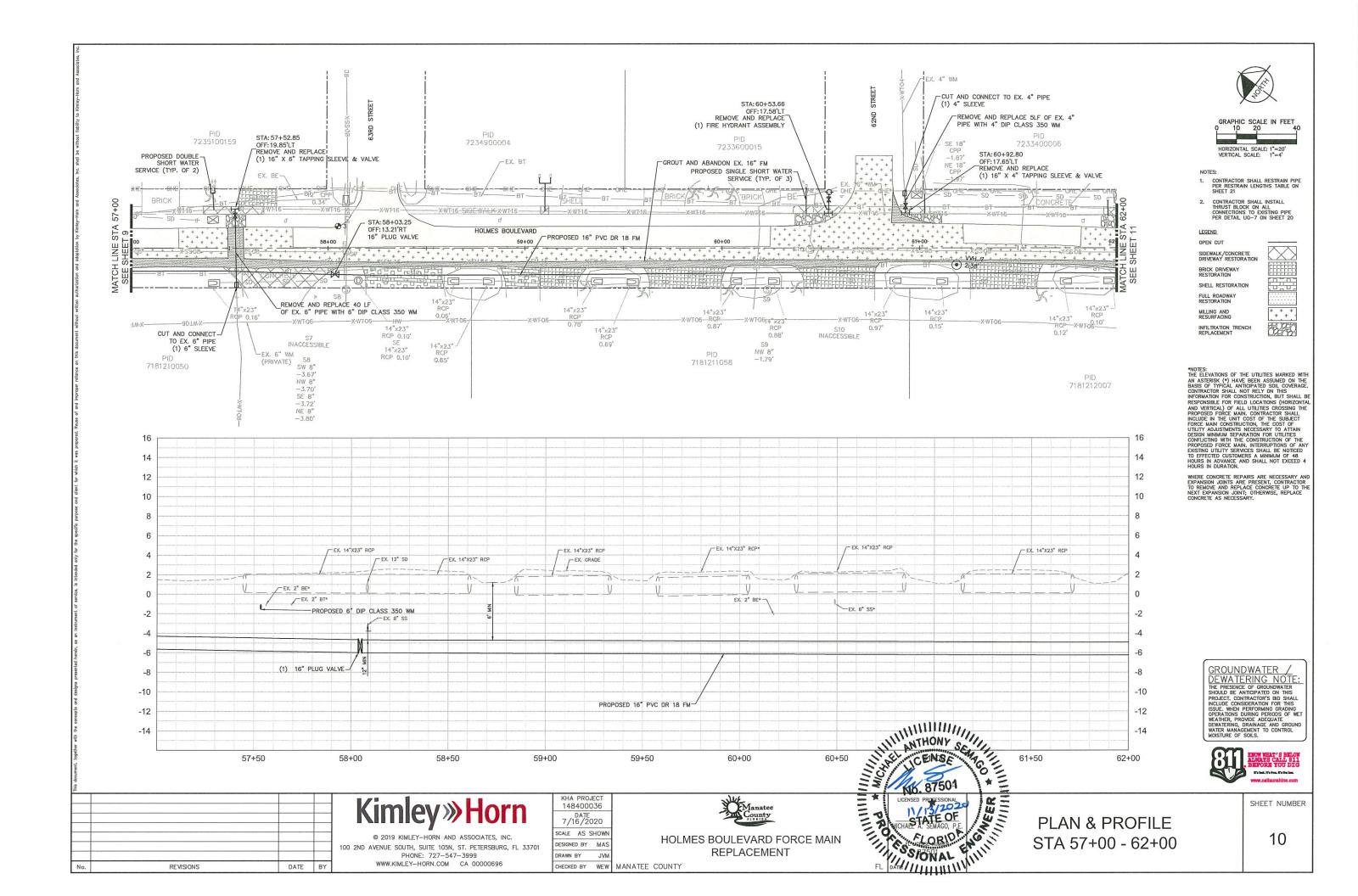


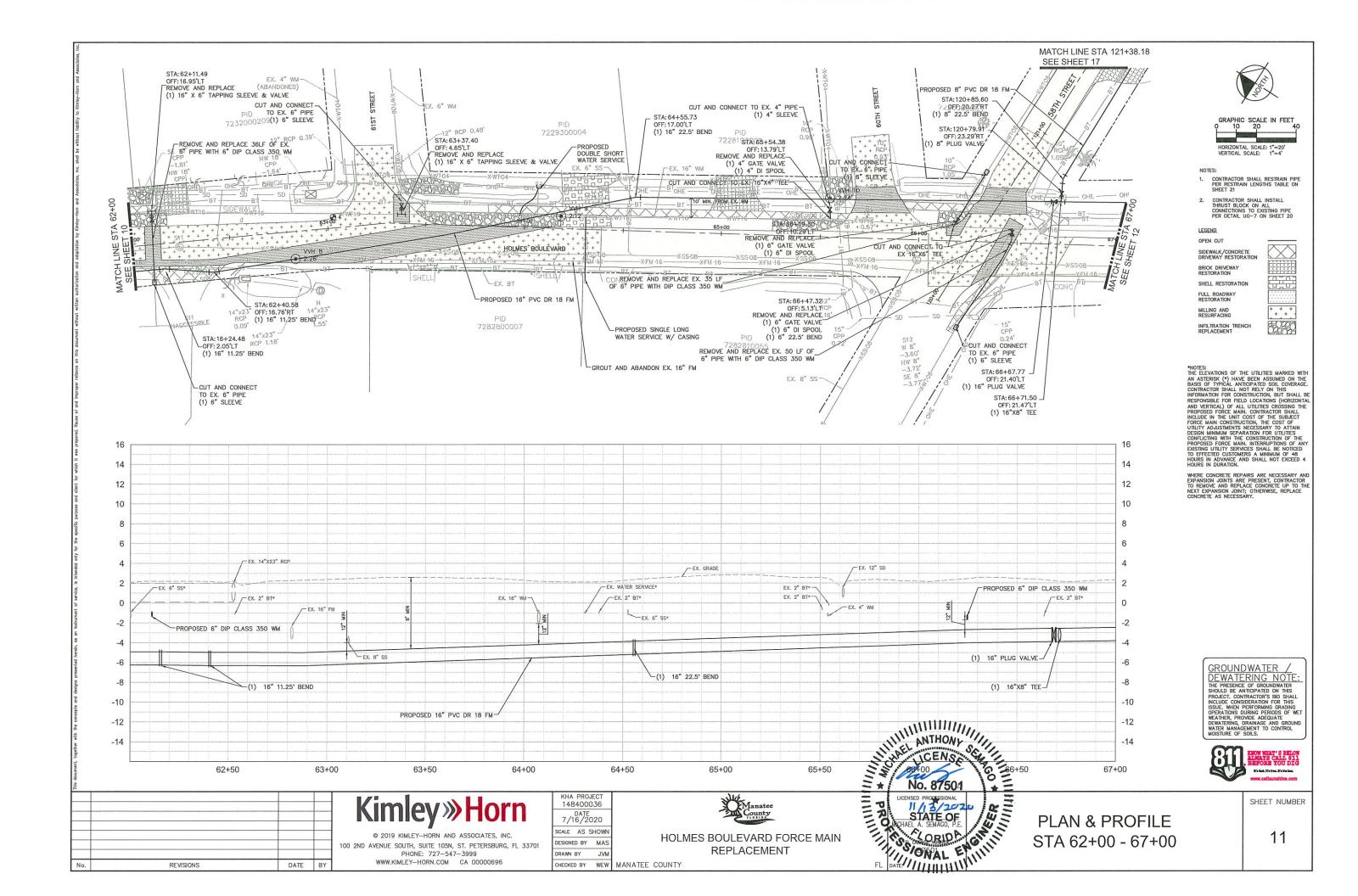


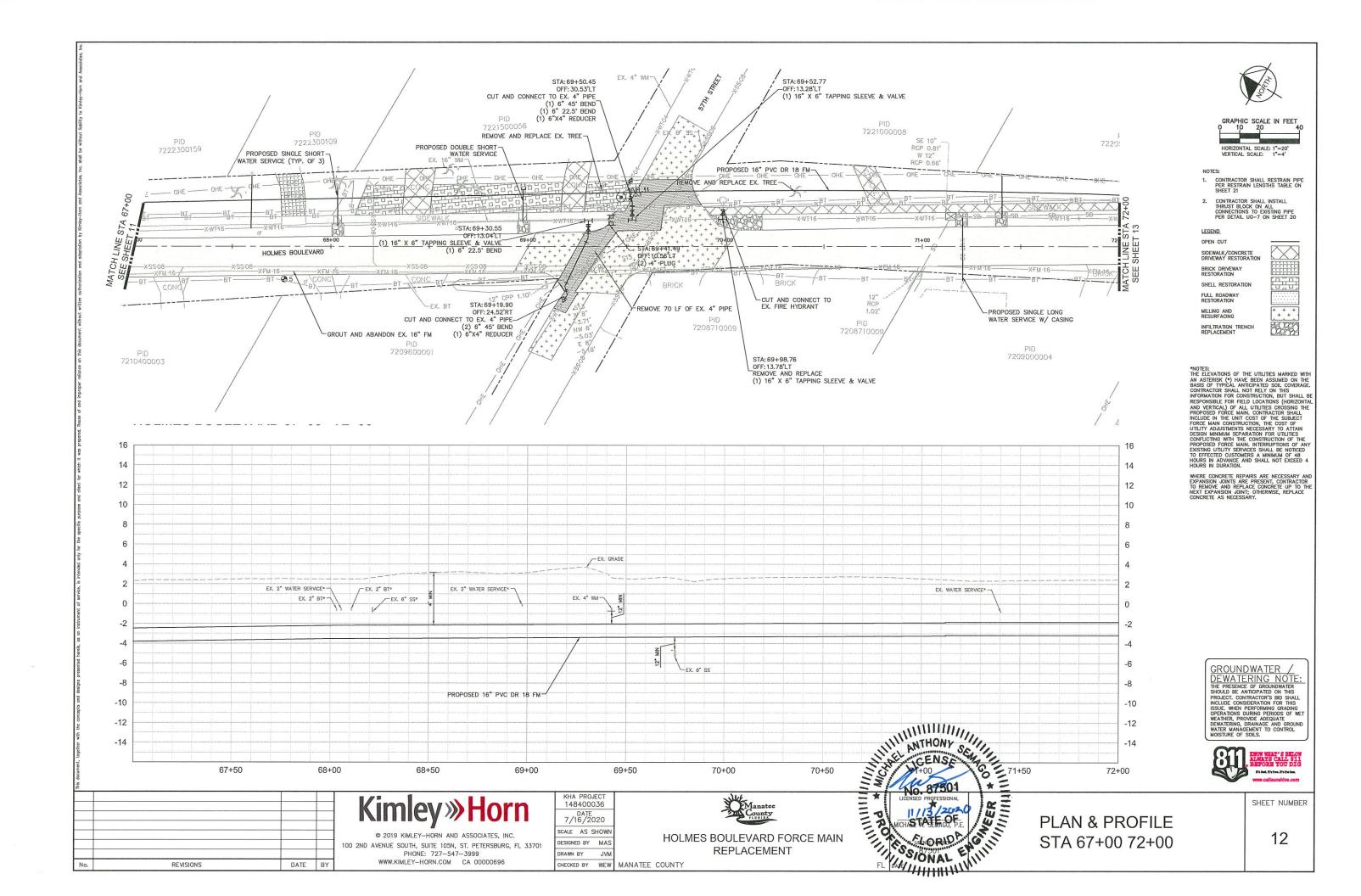


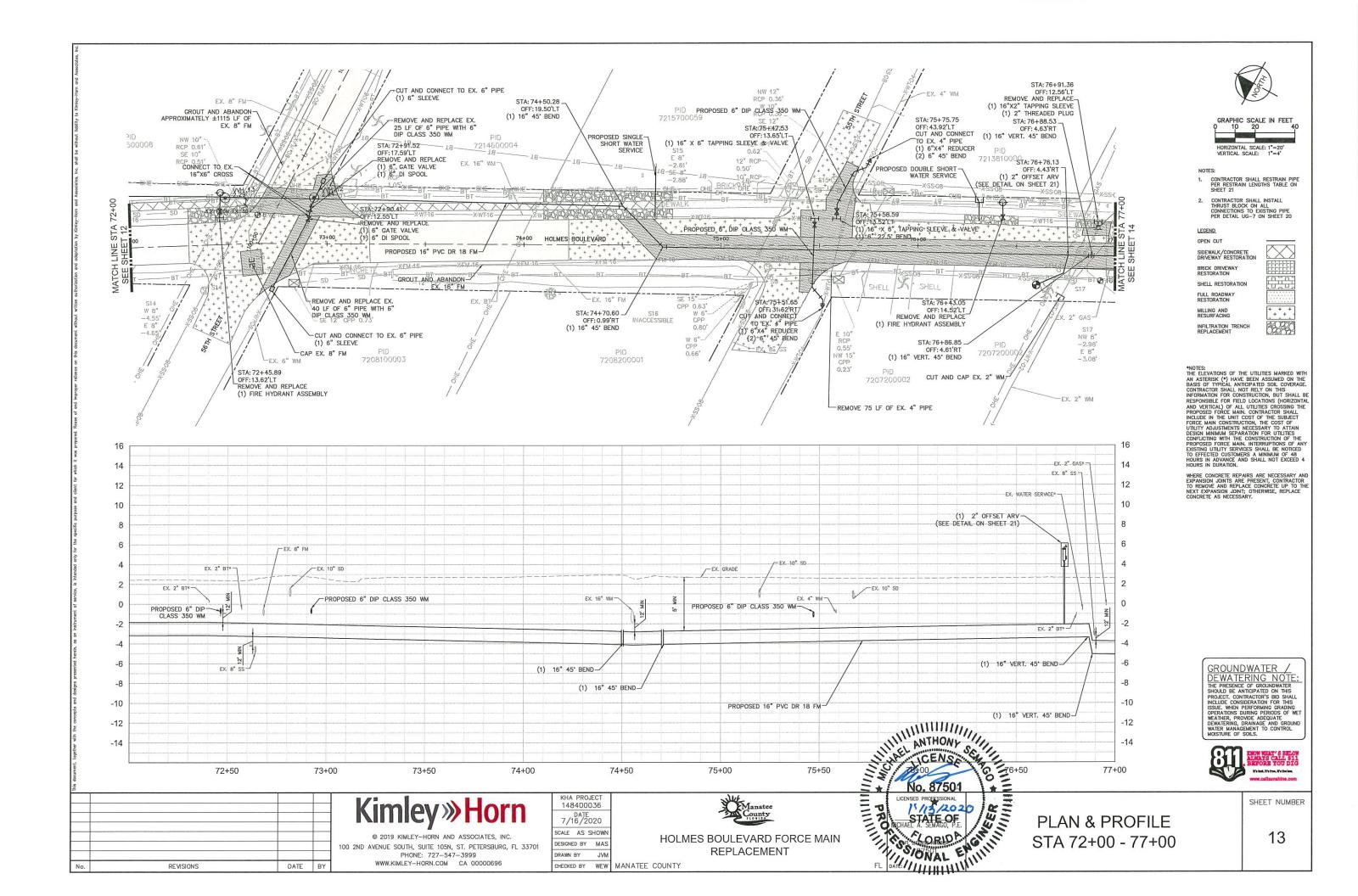


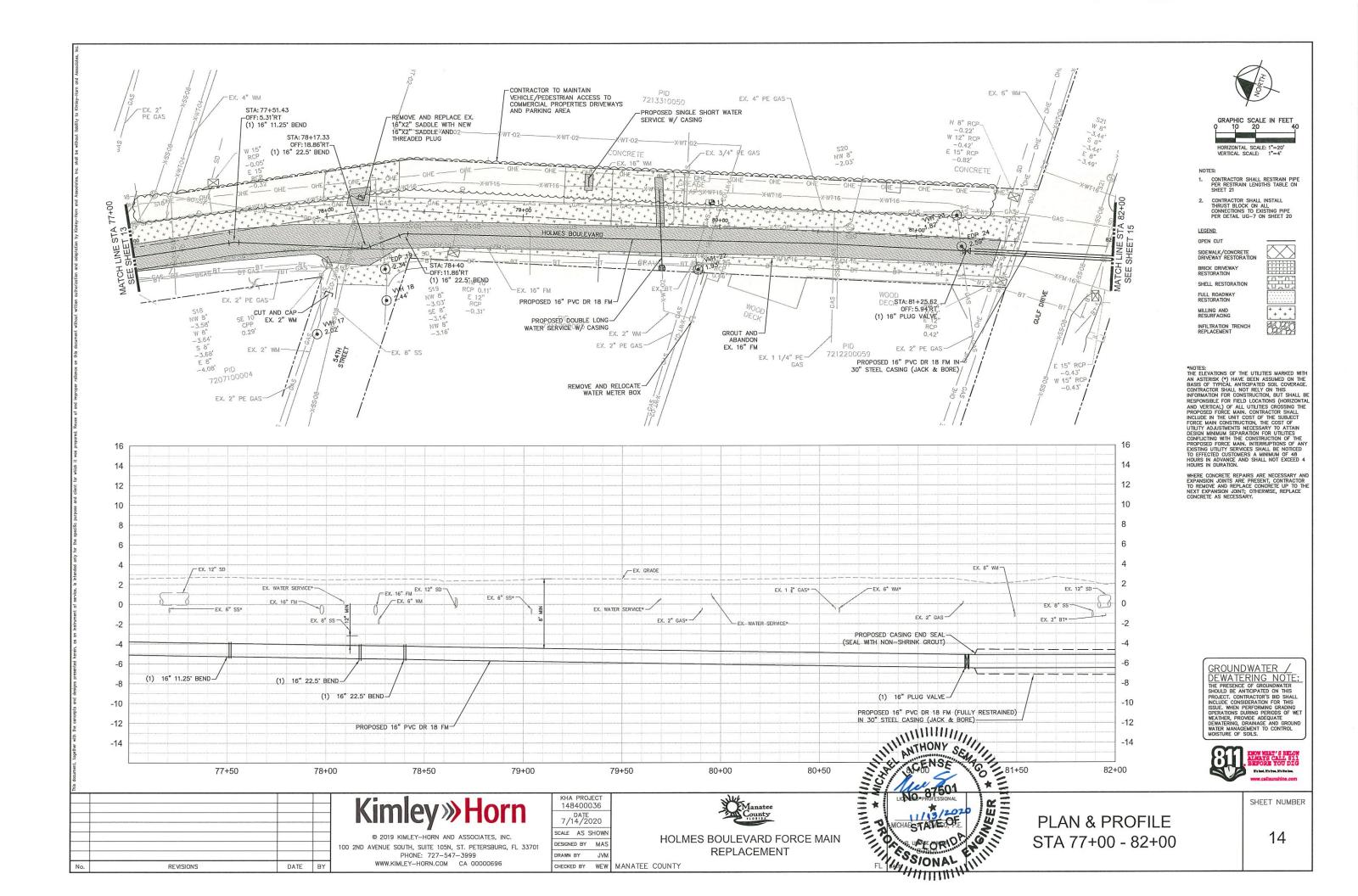


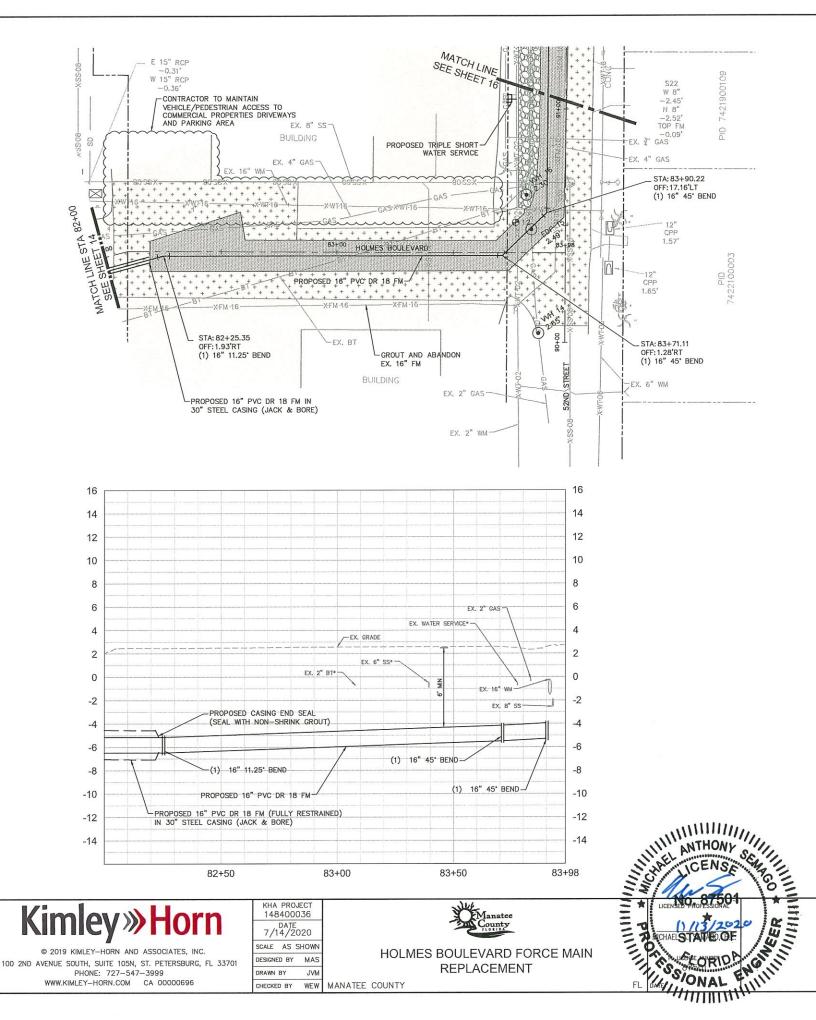












HECKED BY WEW MANATEE COUNTY

DATE BY

REVISIONS

HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=4'

2. CONTRACTOR SHALL INSTALL
THRUST BLOCK ON ALL
CONNECTIONS TO EXISTING PIPE
PER DETAIL UG-7 ON SHEET 20

LEGEND

OPEN CUT

BRICK DRIVEWAY RESTORATION

SHELL RESTORATION

FULL ROADWAY RESTORATION

INFILTRATION TRENCH REPLACEMENT

+ + +

*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 BE
RESPONSIBLE FOR FIELD LOCATIONS (HORIZONIAL
AND VERTICAL) OF ALL UTILITIES CROSSING THE
PROPOSED FORCE MAIN. CONTRACTOR 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 EFFECTED CUSTOMERS A MINIMUM OF 48
HOURS IN ADVANCE AND SHALL NOT EXCEED 4
HOURS IN ADVANCE AND SHALL NOT EXCEED 4
HOURS IN ADVANCE HOS SHALL BE EXCEED 4
HOURS IN DURATION.

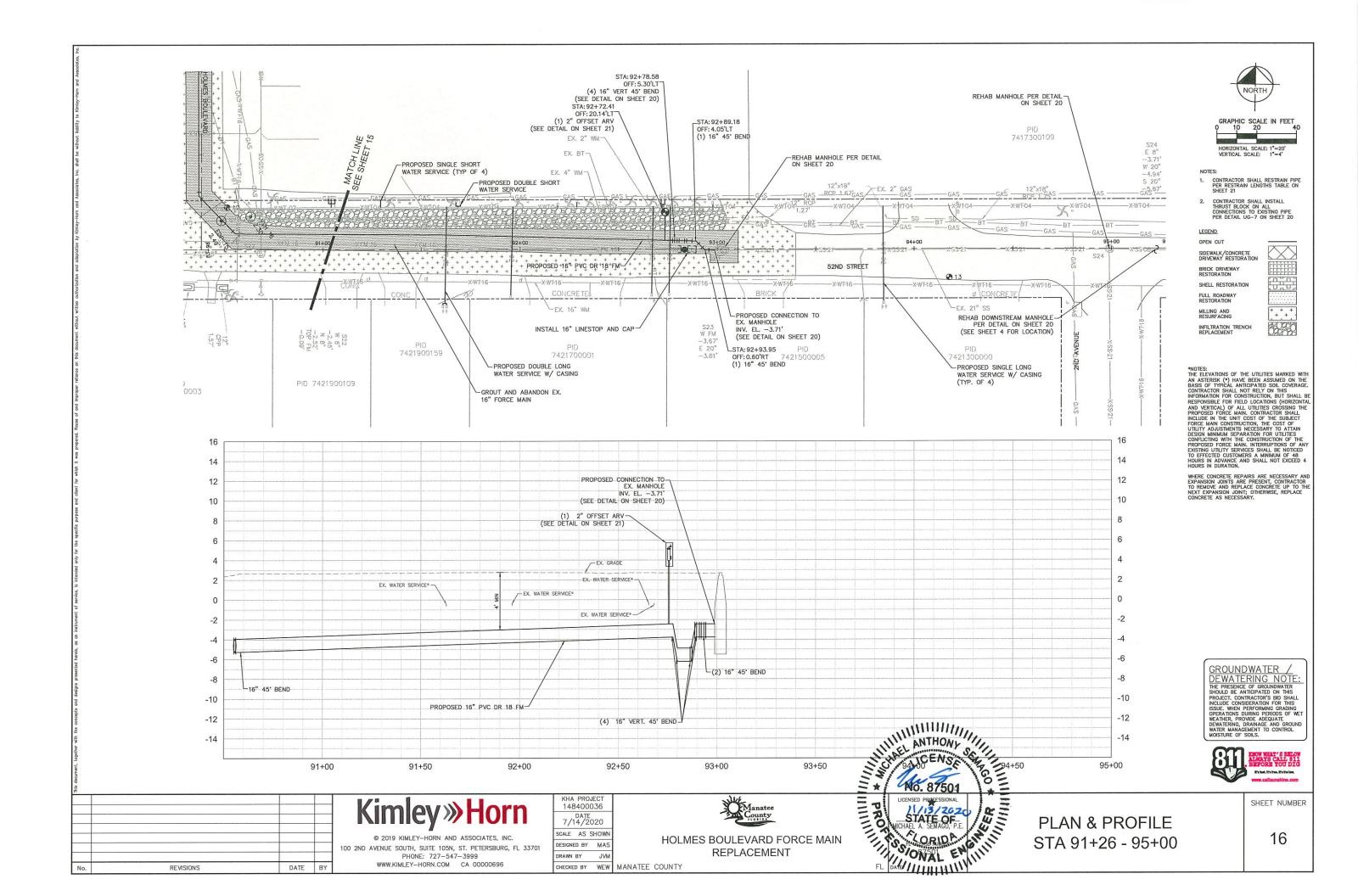
WHERE CONCRETE REPAIRS ARE NECESSARY AND EXPANSION JOINTS ARE PRESENT, CONTRACTOR TO REMOVE AND REPLACE CONCRETE UP TO THE NEXT EXPANSION JOINT; OTHERWISE, REPLACE CONCRETE AS NECESSARY.

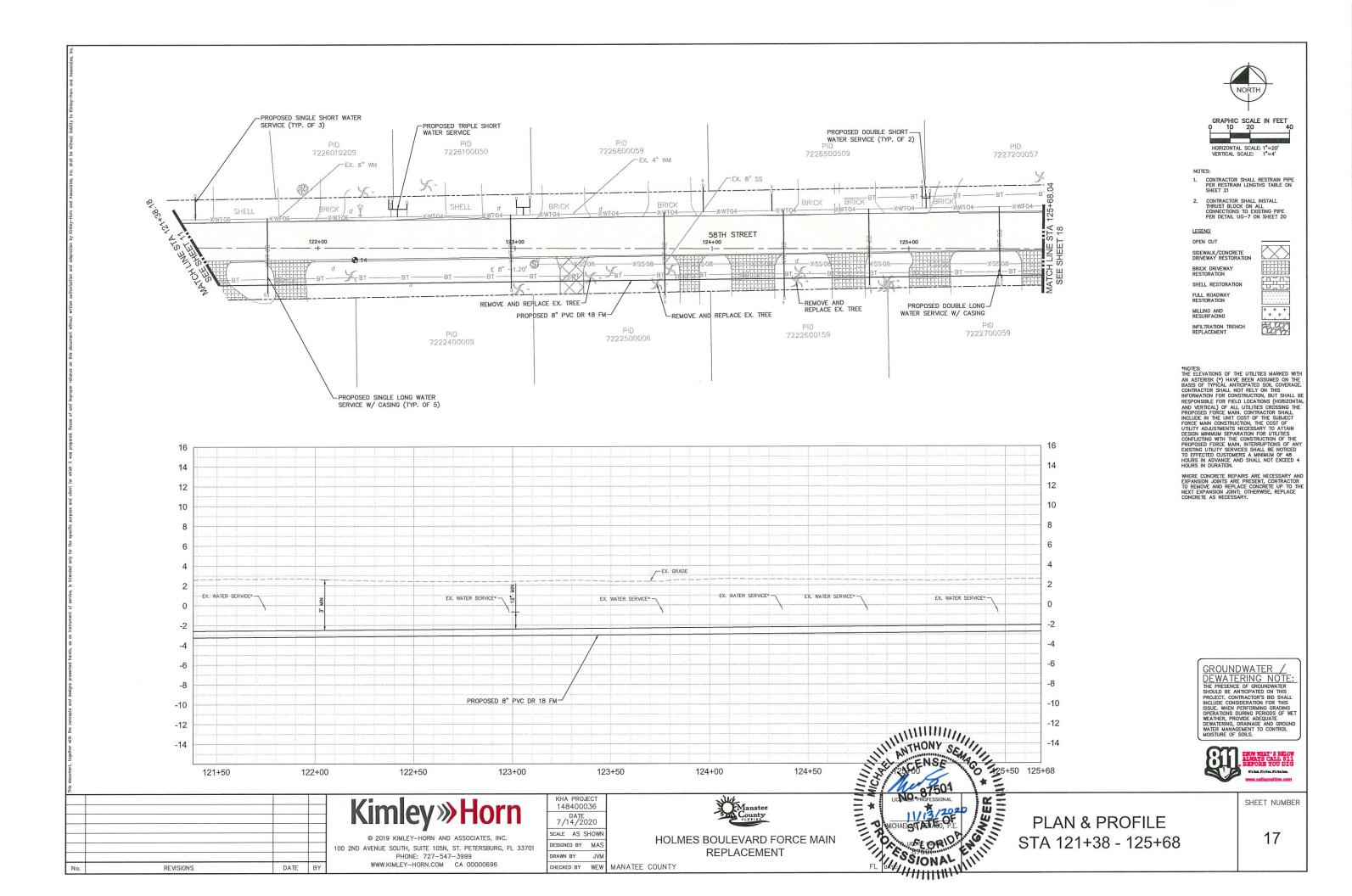
GROUNDWATER /
DEWATERING NOTE:
THE PRESENCE OF GROUNDWATER
SHOULD BE ANTICIPATED ON THIS
PROJECT. CONTRACTOR'S BID SHALL
INCLUDE CONSIDERATION FOR THIS
ISSUE. WHEN PERFORMING GRADING
OPERATIONS DURING PERIODS OF WET
WEATHER, PROVIDE ADEQUATE
DEWATERING, DRAINAGE AND GROUND
WATER MANAGEMENT TO CONTROL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

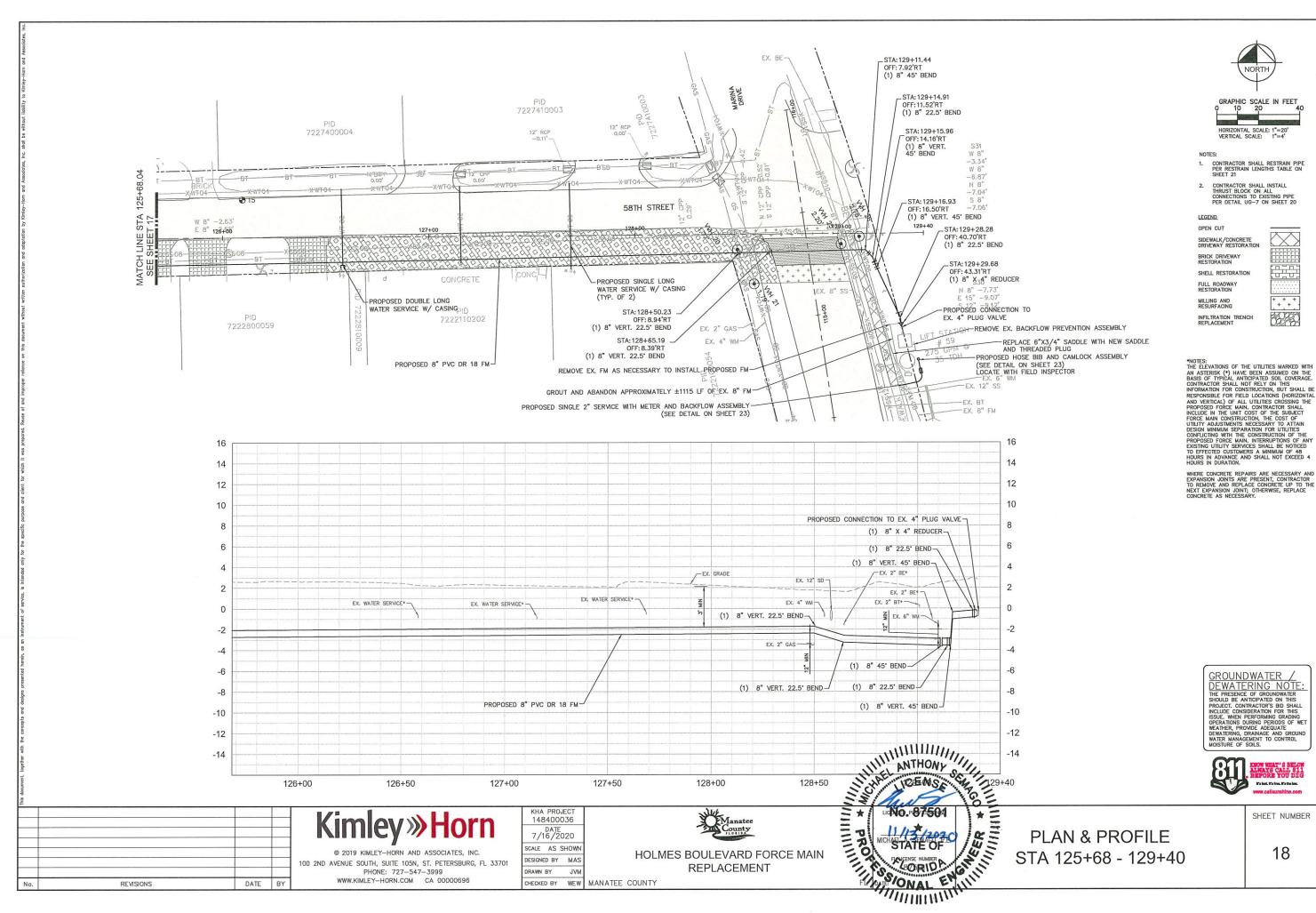


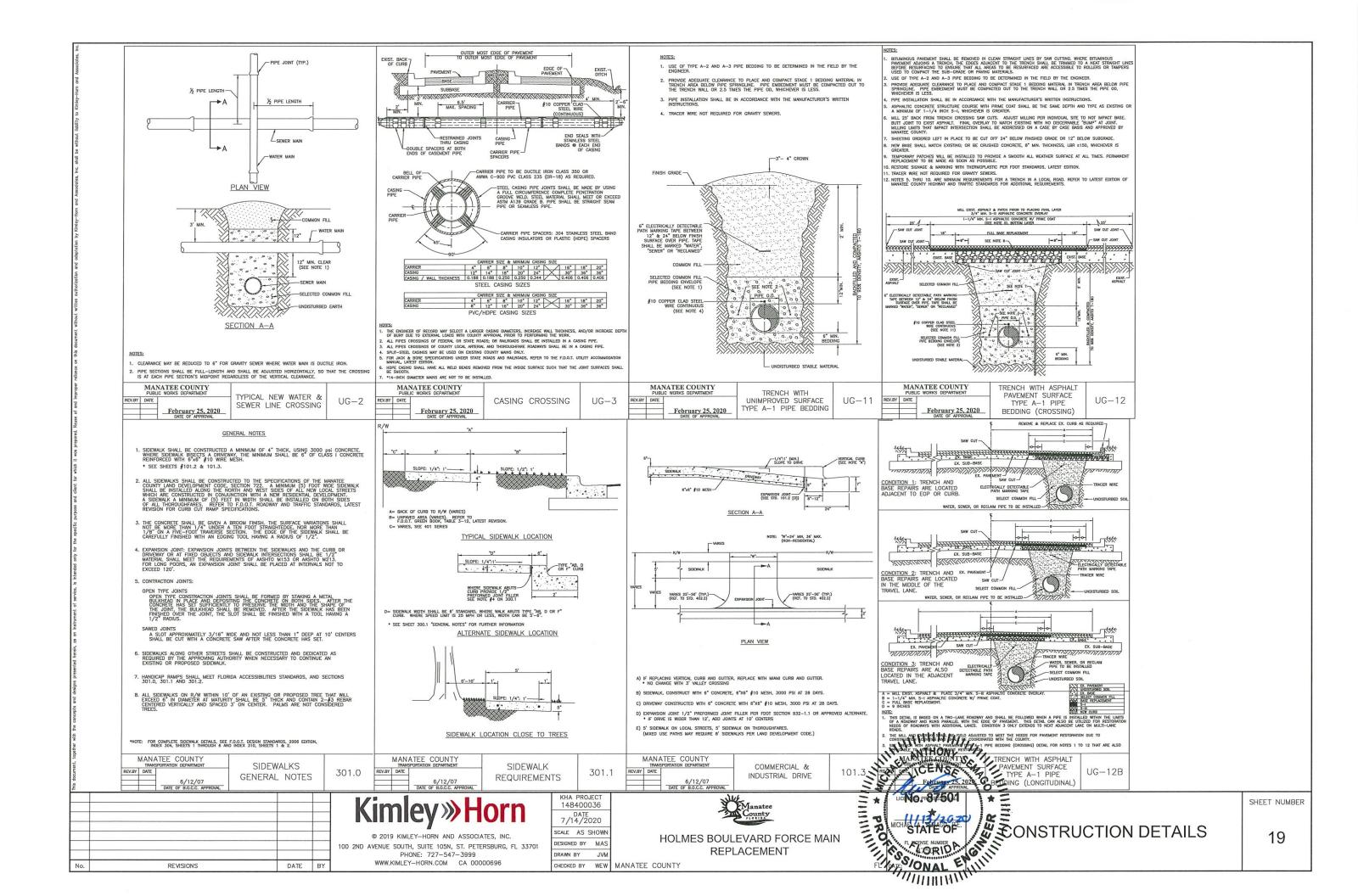
PLAN & PROFILE STA 82+00 - 83+98 SHEET NUMBER

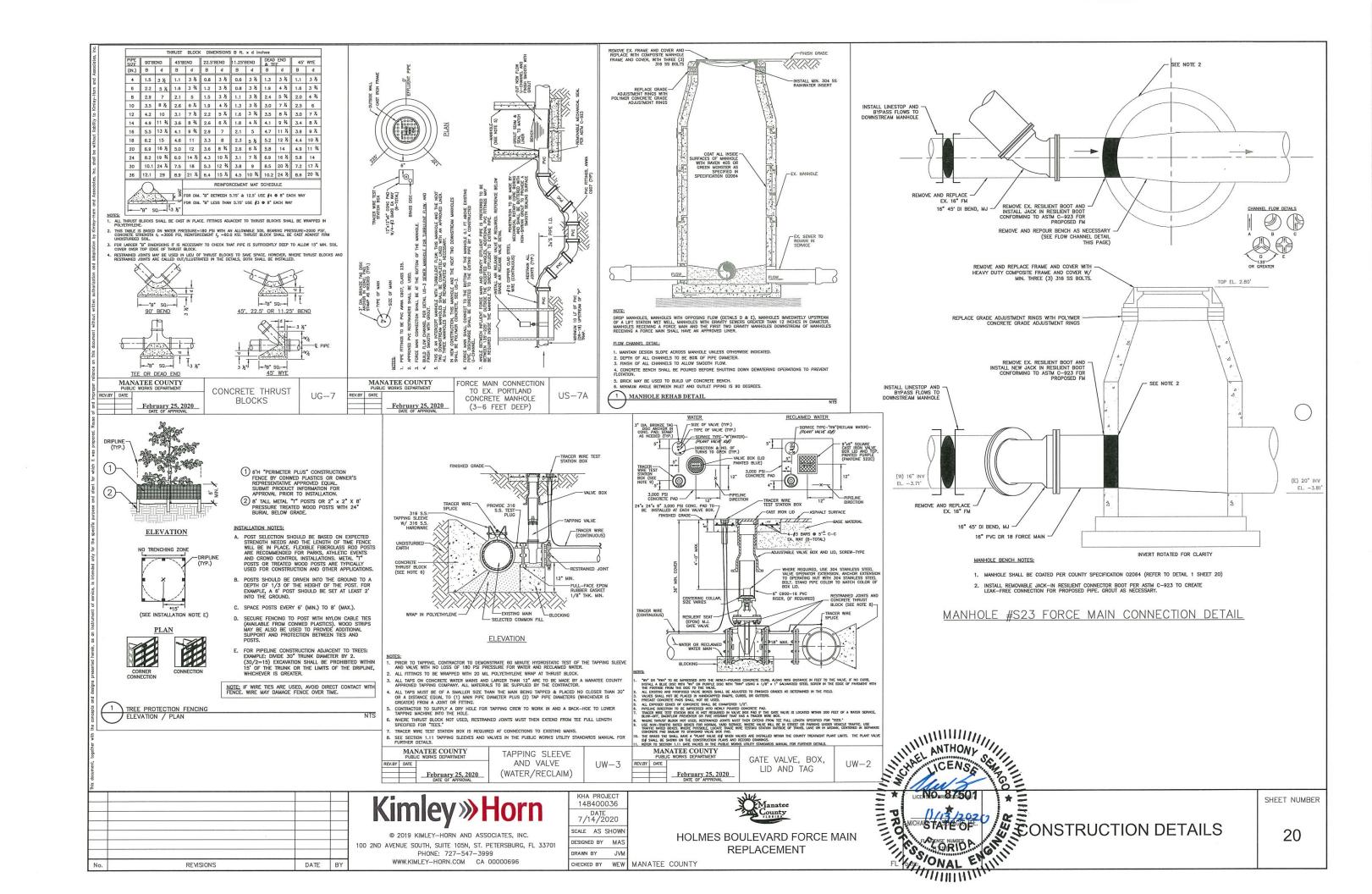
15

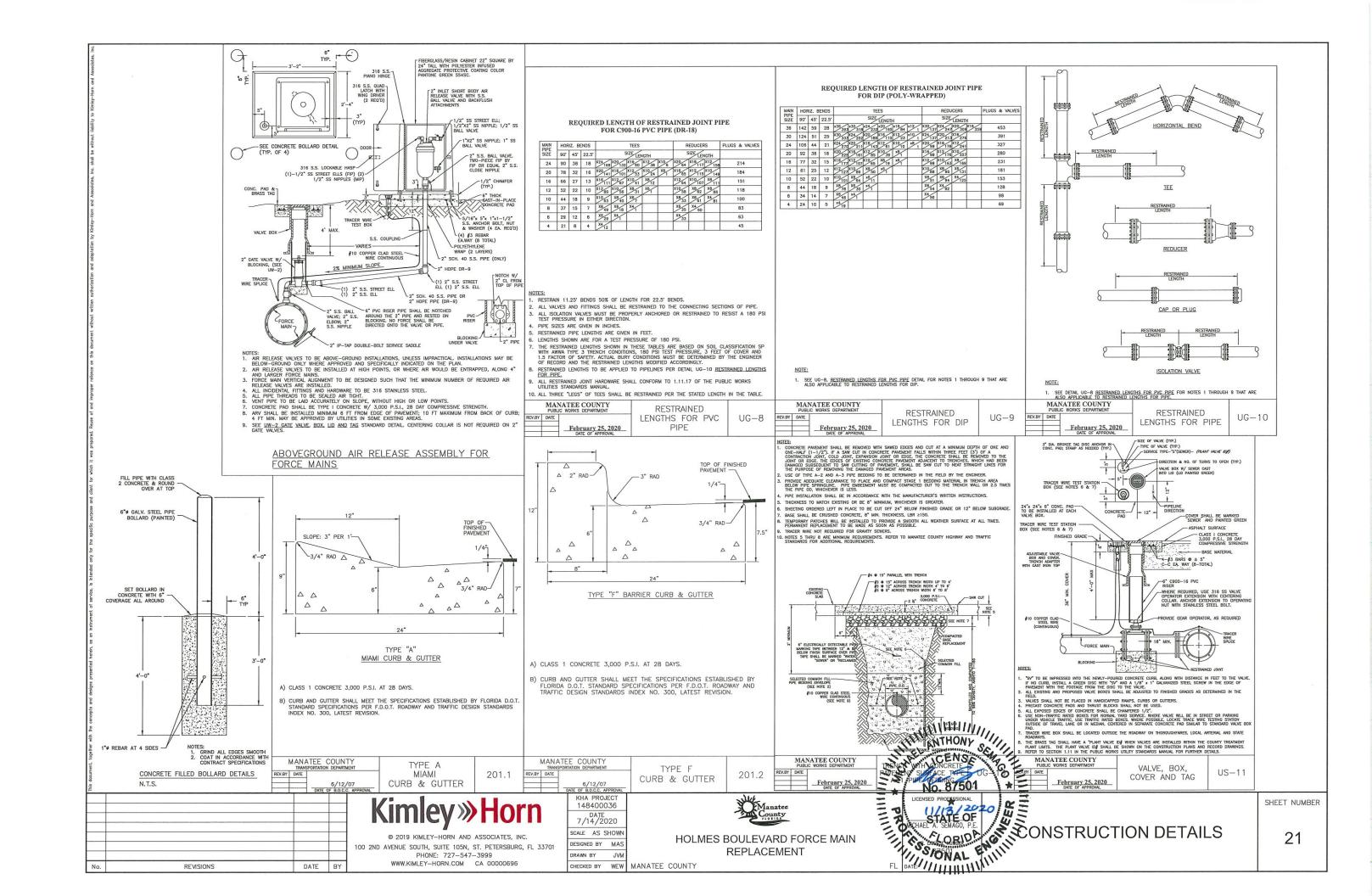


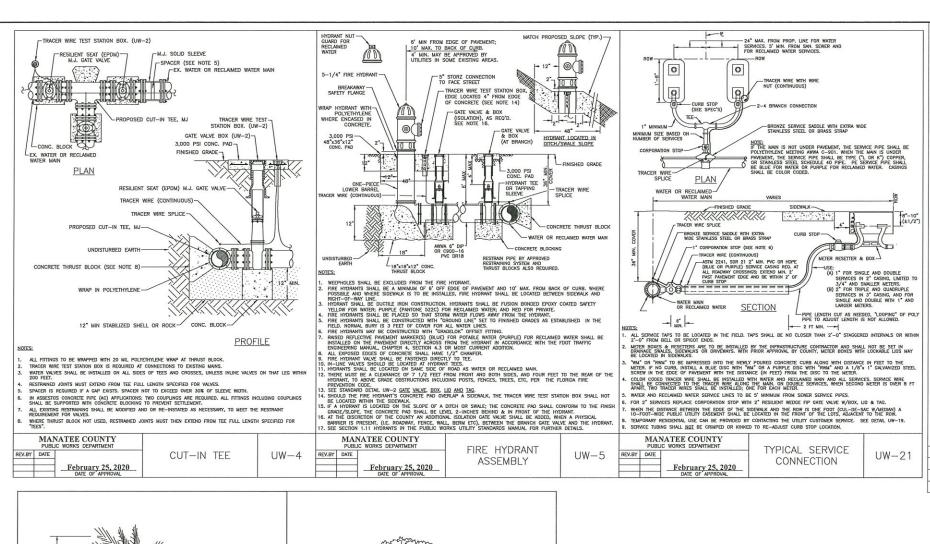










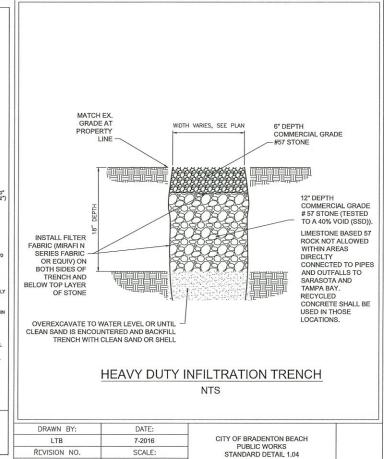


© 2019 KIMLEY-HORN AND ASSOCIATES, INC.

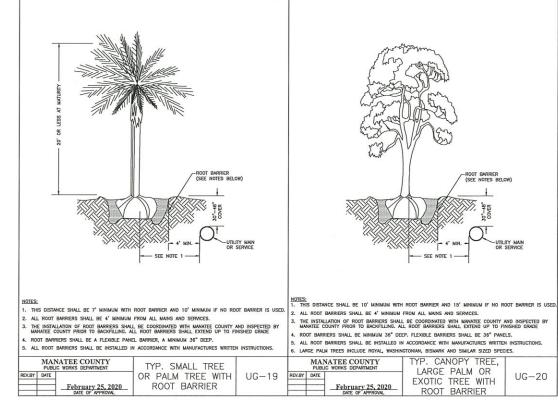
100 2ND AVENUE SOUTH, SUITE 105N, ST. PETERSBURG, FL 33701

PHONE: 727-547-3999

WWW.KIMLEY-HORN.COM CA 00000696



NTS



DATE BY

REVISIONS

KHA PROJECT 148400036 DATE 7/14/2020 CALE AS SHOWN HOLMES BOULEVARD FORCE MAIN DESIGNED BY MAS REPLACEMENT RAWN BY JVM

CHECKED BY WEW MANATEE COUNTY

STATE OF

STATE OF

NICHAEL A. SEMAGO, RE.

CONSTRUCTION DETAILS

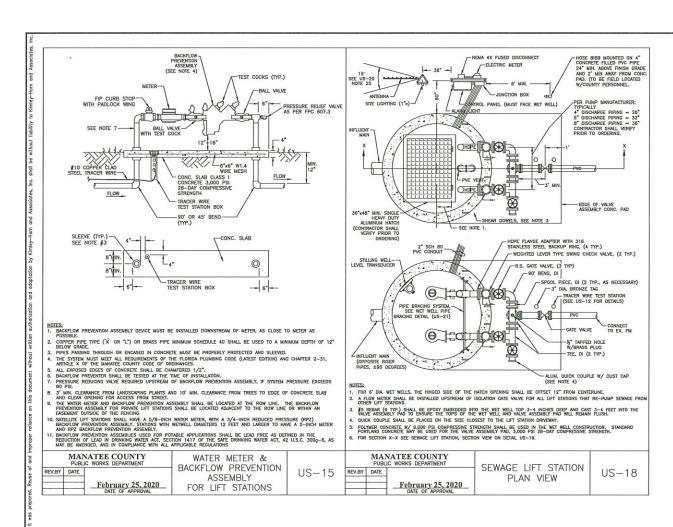
FL DATE:

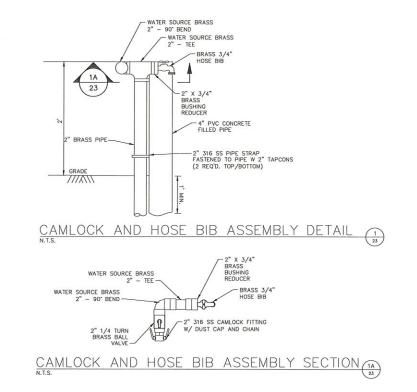
ANTHONY OR

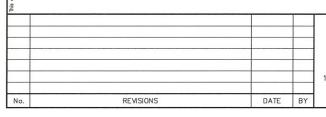
ANTHONY SENSE

22

SHEET NUMBER









© 2019 KIMLEY-HORN AND ASSOCIATES, INC.

100 2ND AVENUE SOUTH, SUITE 105N, ST. PETERSBURG, FL 33701
PHONE: 727-547-3999

WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148400036 7/14/2020 SCALE AS SHOWN DESIGNED BY MAS DRAWN BY JVM

CHECKED BY WEW MANATEE COUNTY



HOLMES BOULEVARD FORCE MAIN REPLACEMENT

SHEET NUMBER

23