PROJECT TEAM:

OWNER: MANATEE COUNTY 1022 26TH AVE. E. BRADENTON, FL 34208 CONTACT: JENNIFER FEHRS, P.E. 941-708-7450 ext. 7236

ENGINEER:

KIMLEY-HORN AND ASSOCIATES, INC. 655 NORTH FRANKLIN STREET, SUITE 150 78 SARASOTA CENTER BOULEVARD TAMPA, FL 33602 CONTACT: W. WADE WOOD, P.E. 813-635-5583

SURVEYOR: HYATT SURVEYING SERVICES INC. 2012 LENA ROAD BRADENTON, FLORIDA 34211 CONTACT: JOHN MATTHEWS 941-748-4693

GEOTECH: ARDAMAN AND ASSOCIATES, INC. SARASOTA, FLORIDA 34240 CONTACT: JERRY H. KUEHN, P.E. 941-922-3526

UTILITY CONTACTS:

FLORIDA POWER & LIGHT GREG COKER 1253 12TH AVE. EAST PALMETTO, FL 34221 941-723-4430

FRONTIER COMMUNICATIONS PATTI REID 1701 RINGLING BLVD. SARASOTA, FL 34236 941-906-6711

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

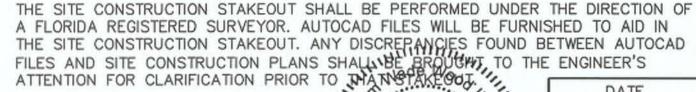
CHARTER COMMUNICATIONS JIM CRUZAN 5413 S.R. 64 EAST BRADENTON, FL 34208 727-329-2846

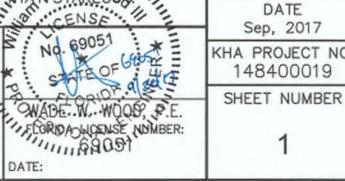




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 TO CONNECTION TO EXISTING UTILITIES. 8. NO WORK, EXCEPT FOR EMERGENCY TYPE, SHALL BE PERFORMED AFTER 7:00 PM AND BEFE SECTION ON SABE PERFORMED ON SUNDAYS. FOR ADDITIONAL PROJECT RESTRAINTS, REFER TO SECTION ON SPECIFICATIONS. 9. THE CONTRACTOR SHALL PROVIDE CERTIFIED RECORD DRAWINGS AS OUTLINED IN THE SPECI DRAWINGS SHALL BE CURRENT WITH EACH PAY APPLICATION SUBMITTED AND WILL BE CHEC APPLICATION REVERS PROCESS. PAYMENT WILL NOT BE MADE TO CONTRACTOR WITHOUL BE CHEC APPLICATION REVERS PROCESS. PAYMENT WILL NOT BE MADE TO CONTRACTOR WITHOUT APP DRAWINGS. THE MOST CURRENT SET OF RED-LINE DRAWINGS SHALL ALSO BE BROUGHT TO MEETING. 10. THE CONTRACTOR SHALL INCLUDE IN HIS BID: BY-PASS PUMPING FACILITES, PUMPS, FITTING MEETING. 11. THE CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER WITH A DETAILED CONSTRUCTION TO COMPLETE ALL WORK SEWER SERVICE OPERATIONS AT ALL TIMES. 11. THE CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER WITH A DETAILED CONSTRUCT ON THE PROPOSED FORCE MAIN ARE CONSTRUCTED. 12. ALL PROPOSED FORCE MAIN ARE CONSTRUCTED. 13. THE CONTRACTOR SHALL BE COORDINATED WITH MANATEE COUNTY UTILITIES DEPARTMEN IN ADVANCE OF PROPOSED CONSTRUCTION. 14. UNLESS OTHERWORK SHALL BE COORDINATED WITH MANATEE COUNTY UTILITIES DEPARTMEN IN ADVANCE OF PROPOSED CONSTRUCTION. 13. THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS TO THE ENGINEER FOR REVIEW OF ALL I TRANSITIONS, AND SPECIAL APPURTENANCES PRIOR TO FABRICATION OR DELIVERY TO THE . 14. UNLESS OTHERWSEI INDICATED OR APPROVED, ALL BELOW GROUND DUCTILE IRON PIPE SHALL HAVE FLANGED X BE FULLY RESTRAINED PER THE DETAILS IN THESE PLANS. 15. SANITARY SEWERS AND FORCEMAINS CROSSING OVER OR UNDER WATER MAINS SHALL BE LIVERTION AND PIPE SHALL HAVE FLANGED X BE FOLLY RESTRAINED PER THE DETAILS IN THESE PLANS. 15. SANITARY SEWERS AND FORCEMAINS COSSING OVER OR UNDER WATER MAINS SHALL BE LIVERTOR OF TA'S MORE OF 12'' BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROW	JAE. THE C RIGHTS PERMITDRE 7:00 AM ON TURDAYS, NO WORK SHALL 310 OF THEJORE 7:00 AM ON TURDAYS, NO WORK SHALL 310 OF THEJORE 7:00 AM ON TURDAYS, NO WORK SHALL 310 OF THEJOR THEFICATIONS, RED-LINE KED AS PART OF THE PAY PROVED RED-LINE EACH MONTHLY PROGRESSS, LABOR, ETC. AS C WHILE MAINTAININGS, LABOR, ETC. AS C WHILE MAINTAININGLI AT LEAST TWO WEEKSPIPE CONNECTIONS, IOB SITE.L HAVE PUSH-ON OR NINTS. ALL JOINTS SHALLND TO PROVIDE A MINIMUM THE LOWER PIPE, WHERE O THAT THE SEWER OR HAN 10' BETWEEN ANY RTIGHT CASING PIPE,ND TO PROVIDE A MINIMUM THE LOWER PIPE, WHERE D THAT THE SEWER OR HAN 10' BETWEEN ANY RTIGHT CASING PIPE,JOINT DUCTILE IRON WITH EXTERIOR SURFACES, ASJOINT DUCTILE IRON WITH EXTERIOR SURFACES, ASJOINT DUCTILE IRON WITH EXTERIOR SURFACES, ASALLS AND EQUIPMENT.	S-OF-WAY USE PERMITS AND TS FROM OTHER GOVERNMENT/ AFFIC SHALL BE IN ACCORDAN ANSPORTATION "MANUAL OF T IED BY THE CONTRACTOR AT ONTRACTOR SHALL BE RESPON- NCE PIPE AND HEADWALLS WE CONTRACTOR SHALL BE RESPON- NCE PIPE AND HEADWALLS WE CONTRACTOR SHALL COORDINAT WARKS (ELEV.), CENTER LINE ONTRACTOR SHALL COORDINAT WAYS WILL BE IN PASSABLE C
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 TRANSITIONS, AND SPECIAL APPURTENANCES PRIOR TO FABRICATION OR DELIVERY TO THE A UNLESS OTHERWISE INDICATED OR APPROVED, ALL BELOW GROUND DUCTILE IRON PIPE SHALL MAVE FLANGED JOB BE FULLY RESTRAINED PER THE DETAILS IN THESE PLANS. SANITARY SEWERS AND FORCEMAINS CROSSING OVER OR UNDER WATER MAINS SHALL BE LA VERTICAL DISTANCE OF 12" BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED STORCE MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS T TWO JOINTS. AS AN ALTERNATIVE, THE SEWER OR FORCE MAIN MAY BE PLACED IN A WATE CONSISTENT WITH F.A.C. RULE 62–555.314. ALL BELOW-GRADE FITTINGS 4-INCHES AND GREATER IN DIAMETER SHALL BE MECHANICAL PROTECTO 401 LINING FOR THEIR INTERIOR SURFACES AND COAL TAR ENAMEL COATING ON NOTED IN SECTION 02615 OF SPECIFICATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ACQUIRE, OR ENTER INTO AGREEMENTS, AREAS AND STAGING. THE COUNTY WILL COORDINATE AND ADVISE, TO HELP IDENTIFY POSSI FINALLY THE CONTRACTOR'S RESPONSIBILITY TO ACQUIRE, OR ENTER INTO AGREEMENTS, AREAS AND STAGING. THE COUNTY WILL COORDINATE AND ADVISE, TO HELP IDENTIFY POSSI FINALLY THE CONTRACTOR'S RESPONSIBILITY TO ACQUIRE, OR ENTER INTO AGREEMENTS, AREAS AND STAGING. THE COUNTY WILL COORDINATE AND ADVISE, TO HELP IDENTIFY POSSI FINALLY THE CONTRACTOR'S RESPONSIBILITY TO ACQUIRE, OR ENTER INTO AGREEMENTS, AREAS AND STAGING. THE COUNTY WILL COORDINATE AND ADVISE, TO HELP IDENTIFY POSSI FINALLY THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE NEEDED AREAS, AND THE COU RESPONSIBILITY FOR DELAYS IN THIS REGARD. COORDINATION AND PUBLIC INFORMATION FOR AND WITH AREA RESIDENTS ARE OF THE UTM CONTRACTOR WILL INSURE ADHERENCE TO THE COUNTY'S NOISE ORDINANCE, HAZARD AND 3 ABATEMENT DIRECTIONS, PLANS, OBJECTIONS AND ORDINANCES. THE ENGINEER WILL HAVE T THIS REGARD, AS REPRESENTED ONSITE BY THE COUNTY INSPECTOR AND ENGINEER'S STAFF CANTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE	PIPE CONNECTIONS, IOB SITE. L HAVE PUSH-ON OR NINTS. ALL JOINTS SHALL AND W SINCE INTS. ALL JOINTS SHALL OR NO CONNE THE LOWER PIPE. WHERE D THAT THE SEWER OR HAN 10' BETWEEN ANY RTIGHT CASING PIPE, JOINT DUCTILE IRON WITH EXTERIOR SURFACES, AS RIALS AND EQUIPMENT. THE BI ABSOL AND W SINCE LOCAT OR NO CONNE HAN 10' BETWEEN ANY FACILIT TO HIS COST SINCE ABSOL ABSOL AND W SINCE LOCAT OR NO CONNE DISCRE 44. THE CO DRIVEW FACILIT TO HIS COST JOINT DUCTILE IRON WITH EXTERIOR SURFACES, AS RIALS AND EQUIPMENT.	EST INFORMATION AVAILABLE / UTELY CORRECT. THERE MAY I HICH HAVE NOT BEEN LOCATE THE PREPARATION OF THESE IONS, ELEVATIONS AND DIMENS OT SHOWN ON THE PLANS) TH/ CTION POINTS SHALL BE EXPO PANCIES OR CONFLICTS FOUND ONTRACTOR SHALL PROTECT A VAYS, SIDEWALKS, SIGNS, MAIL TY IN THE CONSTRUCTION ARE S CONSTRUCTION ACTIVITIES TO TO THE OWNER. ONTRACTOR SHALL USE APPRO AND LIGHT TO PREVENT UND COMMENDED OR REQUIRED BY
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OF FLORIDA EFFECTIVE OCTOBER 1, 1990 AND THE OCCUPATIONAL SAFETY AND HEALTH AD SAFETY STANDARDS, 29 CFR 1926.650, SUBPART P, AS AMENDED. THE CONTRACTOR SHALL	48. THE EL ANTICI	LEVATIONS OF THE UTILITY SE PATED SOIL COVERAGE. CONTR
BID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS.	TETY ACT, 90–96, LAWS FORCE MINISTRATION EXCAVATION COST (INCLUDE IN THE TOTAL THE CO	SPONSIBLE FOR FIELD LOCATIO MAIN. CONTRACTOR SHALL IN OF UTILITY ADJUSTMENTS NEC ONSTRUCTION OF THE PROPOS ID TO EFFECTED CUSTOMERS
21. THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL CONFORM TO ALL OSHA REQUIREMENTS.		
22. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WI UNDERGROUND UTILITIES, POWER LINES, ETC.		ESTORATION WORK PERFORMED S SHOWN OTHERWISE.
23. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. T ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.		STURBED GRASSED AREAS SH CE OWNER MAINTAINED AREAS
ENVIRONMENTAL 24. WHEN A BENTONITE SPILL OR FRACK-OUT OCCURS OR THERE IS A LOSS OF RETURN INDICA	PIPELIN	ONCRETE THRUST BLOCKS INS WE SHALL BE REMOVED AND D ONAL COST TO THE OWNER.
OR LOSS OF DRILLING FLUID, DRILLING MUST BE STOPPED UNTIL THE LOCATION OF THE SPIL NO CIRCUMSTANCES WILL DRILLING CONTINUE WHEN A SPILL IS APPARENT.	L IS IDENTIFIED. UNDER 52. ALL DE DETAIL	RIVEWAYS UNLESS OTHERWISE ON SHEET 20.
25. ONCE LOCATED, THE BENTONITE SPILL MUST BE ISOLATED AND SEEPAGE INTO ANY NEARBY BLOCKED DEPENDING ON THE DEGREE OF THE SPILL, THE ISOLATED BENTONITE MUST BE RE MECHANICALLY AND DISPOSED OF BY APPROPRIATE MEANS OR REUSED.	MOVED MANUALLY OR 53. CONCR CURRE OF THE	ETE DRIVEWAYS OR SIDEWALK NT EDITIONS OF THE F.D.O.T. E F.D.O.T. DESIGN STANDARDS
26. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY STORM WATER, EROSION, A CONTROL MEASURES IN ACCORDANCE WITH THE FDEP "FLORIDA STORM WATER, EROSION ANI INSPECTOR'S MANUAL". IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND P TRANSPORT OF SEDIMENT TO SURFACE DRAINS AND TO DITCHES DURING CONSTRUCTION.	D SEDIMENTATION CONTROL REVENT EROSION AND EMULSI	VER A PERMANENT ROADWAY E NEWLY INSTALLED PIPE LINE RARY SURFACE CONSISTING O ION. PERMANENT ROADWAY RE
27. STOCKPILES SHALL BE PROTECTED AT ALL TIMES BY ON-SITE DRAINAGE CONTROLS WHICH I STOCKPILED MATERIAL. CONTROL OF DUST FROM SUCH STOCKPILES IS REQUIRED, DEPENDING AND THE EXPECTED LENGTH OF TIME THE STOCKPILES WILL BE PRESENT. IN NO CASE SHALL MATERIAL REMAIN AFTER THIRTY (30) CALENDAR DAYS.	UPON THEIR LOCATION 55. RESTOR ANY STOCKPILED CALENI	ITIAL OPEN CUTTING. RATION OF CURBS, DRIVEWAYS DAR DAYS OF INITIAL DISTURE EVER OCCURS FIRST.
28. STORM WATER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT SECURED HAY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS R PROGRESS, AND WHICH MUST BE APPROVED BY THE ENGINEER BEFORE INSTALLATION. THIS PREVENT DEGRADATION OF THE WATERS OF THE COUNTY AND STATE.	TRAPS SUCH AS EQUIRED BY CONSTRUCTION 56. ALL EX CONTR WILL BE MAINTAINED TO	ACTOR AT NO ADDITIONAL CO
29. SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFER INTENDED TO TRAP SEDIMENT AND/OR PREVENT THE TRANSPORT OF SEDIMENT ONTO ADJAC	S, AND OTHER MEASURES SHALL ENT PROPERTIES, OR INTO CONSTRUCT	REMOVE AND REPLACE CONC
EXISTING BODIES OF WATER, MUST BE INSTALLED, CONSTRUCTED, OR IN THE CASE OF VEGE PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS. SU FULLY OPERATIVE BEFORE ANY OTHER DISTURBANCE OF THE SITE BEGINS. EARTHEN STRUCT NOT LIMITED TO BERMS, EARTH FILTERS, DAMS OR DIKES SHALL BE STABILIZED AND PROTECT DAMAGE OR EROSION WITHIN ONE (1) WEEK OF INSTALLATION.	TATIVE BUFFERS, CH SYSTEMS SHALL BE TURES INCLUDING BUT CTED FROM DRAINAGE ABATEI	HAUST SYSTEM OF ALL GAS
30. ALL SWALES, DITCHES, AND CHANNELS LEADING FROM THE SITE SHALL BE PROTECTED FROM DURING CONSTRUCTION AND BE SODDED WITHIN THREE (3) DAYS OF EXCAVATION.	APPRO SILTATION AND EROSION 59. NO MA	VED BY THE ENGINEER. TERIAL SHALL BE STOCKPILED ROADS SHALL BE SWEPT DA

REVISIONS

DATE

BY

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SPLACED BY CONSTRUCTION WILL BE REMOVED. EROSION CONTROL SHALL BE IMPLEMENTED IN AREAS WHICH INSIDERED ENVIRONMENTALLY SENSITIVE. EROSION CONTROL SYSTEMS SHALL BE REQUIRED FOR ALL WORK JURISDICTIONAL AREAS. THESE SYSTEMS MAY INCLUDE STAKED HAY BALES, SILT SCREENS, FILTER FABRIC, RBIDITY SCREENS.

OSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL HALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.

INTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER WETLAND AREAS THAT MAY BE ON OR NEAR THE RUCTION SITE, ALL WORK IN THE VICINITY OF OPEN WATER AND/OR WETLANDS IS TO BE PERFORMED IN ANCE WITH THE ENVIRONMENTAL REGULATIONS AND/OR PERMITS FOR THE SITE. THE CONTRACTOR WILL BE ISIBLE FOR ANY FINES RESULTING FROM HIS VIOLATION OF ANY REGULATIONS OR PERMIT CONDITIONS.

ACTOR SHALL PROVIDE PROTECTIVE MATTING, FUEL CONTAINMENT AND ALL OTHER MATERIALS, EQUIPMENT AND TO PROTECT THE STAGING AREA DURING CONSTRUCTION.

ACTOR SHALL, PRIOR TO BEGINNING CONSTRUCTION, SUBMIT A "FUELING SPILL PREVENTION PLAN" THAT SHALL INDICATE HOW FUEL SPILLS WILL BE PREVENTED WHEN FUELING BOTH WITHIN AND OUTSIDE OF THE STAGING

STRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY OR CITY OF HOLMES BEACH OF-WAY.

NTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE AND PROPERTY CORNER MONUMENTS, PINS, AND LANDMARKS THAT MAY BE DISTURBED BY CONSTRUCTION AT NO NAL COST TO THE OWNER.

INTRACTOR, PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN ANY REQUIRED -OF-WAY USE PERMITS AND A TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION FFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDA DEPARTMENT NSPORTATION "MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES". A TRAFFIC CONTROL PLAN SHALL BE ED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.

NTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED STORM WATER STRUCTURES, PIPING, ICE PIPE AND HEADWALLS WHETHER SHOWN ON THE PLANS OR NOT. THE HEADWALLS SHALL BE REPLACED IN ANCE WITH F.D.O.T. STANDARDS.

HE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH IN THE FIELD THE RIGHT-OF-WAY LINES, BASE LINES, MARKS (ELEV.), CENTER LINES, AND STATIONING AS REQUIRED TO CONSTRUCT THIS PROJECT.

NTRACTOR SHALL COORDINATE THE CUTTING OF DRIVEWAYS WITH THE PROPERTY OWNER PRIOR TO CUT. ALL AYS WILL BE IN PASSABLE CONDITION AT THE END OF THE WORK DAY AND FULLY RESTORED PER SECTION

OF ENTRY AGREEMENT SHALL BE OBTAINED BY THE CONSTRUCTION MANAGER FROM THE PROPERTY OWNER ANY DRIVEWAY CONSTRUCTION WORK IS DONE OUTSIDE OF THE RIGHT-OF-WAY OR EASEMENT.

ONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO T INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE TELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA HICH HAVE NOT BEEN LOCATED OR IDENTIFIED, MAY NOT BE IN THE EXACT LOCATION SHOWN OR RELOCATED E PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE ONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES STRUCTURES AND OTHER FEATURES (WHETHER SHOWN ON THE PLANS) THAT MAY EFFECT HIS WORK. ALL EXISTING UTILITIES TO BE EXTENDED, CROSSED OR TION POINTS SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND ELEVATION. ANY ANCIES OR CONFLICTS FOUND SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION.

NTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, AYS, SIDEWALKS, SIGNS, MAIL BOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED ITEM DUE CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER THAN PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL THE OWNER.

NTRACTOR SHALL USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED OR OFFERED BY FLORIDA AND LIGHT TO PREVENT UNDERMINING OF POWER POLES DURING CONSTRUCTION. IF HOLDING OF POWER POLES MMENDED OR REQUIRED BY THE UTILITY, THE CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE AND BEAR ALL RELATED COSTS.

PORARY SHUTDOWNS FOR MODIFICATIONS OF EXISTING UTILITY SYSTEMS THAT MUST REMAIN IN SERVICE CONSTRUCTIONS SHALL BE KEPT TO A MINIMUM AND SHALL BE COORDINATED WITH AND APPROVED BY THE COUNTY UTILITY OPERATIONS DEPARTMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. IT IS NOTED EMPORARY SHUTDOWNS MAY BE RESTRICTED TO CERTAIN HOURS AT ANY TIME OF THE DAY OR NIGHT AND COMPLETED AT NO ADDITIONAL COST TO THE OWNER.

RK BEING DONE ON EXISTING SANITARY SEWER LINES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NING THE FLOW OF ALL SEWAGE DURING CONSTRUCTION, WHICH MAY REQUIRE BY-PASS PUMPING AND/OR TRUCKS. THE CONTRACTOR SHALL SUBMIT A DETAILED BY-PASS PUMPING PLAN PER SECTION 02720.

EVATIONS OF THE UTILITY SERVICES AND LATERALS HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL ATED SOIL COVERAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL PONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE PROPOSED MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT FORCE MAIN CONSTRUCTION, THE UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH STRUCTION OF THE PROPOSED FORCE MAIN. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE TO EFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN

TORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES SHOWN OTHERWISE.

TURBED GRASSED AREAS SHALL BE SODDED UNLESS OTHERWISE INDICATED. THE TYPE OF SOD USED TO OWNER MAINTAINED AREAS IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER.

NCRETE THRUST BLOCKS INSTALLED FOR TESTING PURPOSES AND NOT REQUIRED FOR THE OPERATION OF THE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR, PRIOR TO FINAL ACCEPTANCE, AT NO NAL COST TO THE OWNER.

VEWAYS UNLESS OTHERWISE INDICATED SHALL BE RESTORED PER FORCE MAIN 11 DRIVEWAY RESTORATION ON SHEET 20.

TE DRIVEWAYS OR SIDEWALKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO THE EDITIONS OF THE F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN, SECTION 522, AND SECTION 310 F.D.O.T. DESIGN STANDARDS UNLESS SHOWN OTHERWISE.

ER A PERMANENT ROADWAY SURFACE IS NOT REPLACED IMMEDIATELY AFTER BACKFILLING AND COMPACTION NEWLY INSTALLED PIPE LINE IN AREAS WHERE TRAFFIC MUST PASS, THE CONTRACTOR SHALL INSTALL A ARY SURFACE CONSISTING OF NINE INCHES OF COMPACTED LIME ROCK BASE AND A COAT OF ASPHALT IN. PERMANENT ROADWAY REPAIR SHALL BE PERFORMED A MAXIMUM OF TWENTY-ONE CALENDAR DAYS AFTER TIAL OPEN CUTTING.

ATION OF CURBS, DRIVEWAYS, SIDEWALKS, AND PLACEMENT OF SOD SHALL BE COMPLETED WITHIN FORTY-FIVE AR DAYS OF INITIAL DISTURBANCE, OR TWENTY-ONE CALENDAR DAYS OF SUBSTANTIAL COMPLETION, VER OCCURS FIRST.

STING FENCES DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AND REINSTALLED BY THE ACTOR AT NO ADDITIONAL COST TO THE OWNER UNLESS SHOWN TO BE REMOVED ON CONSTRUCTION PLANS. CONCRETE REPAIRS ARE NECESSARY AND EXPANSION OR CONTRACTION JOINTS ARE PRESENT, CONTRACTOR REMOVE AND REPLACE CONCRETE UP TO THE NEXT EXPANSION OR CONTRACTION JOINT.

HAUST SYSTEM OF ALL GASOLINE AND DIESEL ENGINES SHALL BE EQUIPPED WITH MUFFLERS THAT MEET THE ENT MANUFACTURER'S REQUIREMENTS FOR NOISE SUPPRESSION. THE CONTRACTOR SHALL INSTALL NOISE ENT BAFFLES POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES, AS ED BY THE ENGINEER.

ERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE ROADS SHALL BE SWEPT DAILY AS PART OF DAILY CLEAN UP.

- LARGER THAN TWO INCH DIAMETER.
- COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
- DEPARTMENT.
- AND THE CORPORATION STOP SHALL REMAIN IN PLACE.
- SPECIFICATIONS FOR CUT AND CAPPING ABANDONED PIPE.
- OBSTACLES, AS ORDERED BY THE ENGINEER.
- THE APPROVAL PROCESS.
- AUTHORIZATION, OR A DISCHARGE PERMIT IS REQUIRED.
- COUNTY'S STANDARDS.

TRAFFIC CONTROL NOTES

- FOR ALL MULTILANE WORK ON SHOULDER UTILIZE INDEX NO. 612.
- A STATE FACILITY.
- AND PAVING OPERATIONS DURING THE SAME WORK PERIOD.
- ENGINEER.

60. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER 15. CONTRACTOR TO MAINTAIN VEHICLE DETECTION IN OPERATION FOR LANES THAT WILL REMAIN OPEN. CONTRACTOR TO COORDINATE ALL VEHICLE DETECTION ISSUES WITH CLARKE DAVIS OF METHODS AS REQUIRED. MANATEE COUNTY AT 941-708-7450, EXT. 7272 OR CLARKE, DAVIS@MYMANATEE.ORG 61. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES. MAINTENANCE OF TRAFFIC AND ANY SIGNAL RETIMING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. 62. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OR TRIMMING OF ANY TREE WITHIN THE CONSTRUCTION AREA. 17. ANY SIGNAL RETIMING REQUIRED FOR THE INTERSECTIONS IMPACTED BY THE PROJECT WILL 63. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. BE THE RESPONSIBILITY OF THE CONTRACTOR. SIGNAL TIMING MODIFICATIONS TO BE DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM. SUBMITTED TO MANATEE COUNTY TRAFFIC DESIGN, ATTENTION MR. MUKUNDA GOPALAKRISHNA FOR REVIEW AND APPROVAL AT LEAST 15 WORKING DAYS BEFORE PROPOSED CHANGES. THIS 64. ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN THE CONTRACT DOES NOT GOVERN EMERGENCY SITUATIONS, PENDING THE APPROVAL OF THE ENGINEER. DOCUMENT AND SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS AND PROFILES. 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 65. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS. WORKING DAYS PRIOR TO PROPOSED IMPLEMENTATION. 66. ALL FITTINGS FOR PRESSURE CLASS-RATED PIPE SHALL BE RESTRAINED DUCTILE IRON. RESTRAINED LENGTHS OF PIPE SHALL ADHERE TO THE REQUIREMENTS AS SHOWN ON THE DETAIL SHEETS. ABBREVIATIONS 67. 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. RJ - RESTRAINED JOINT R/W - RIGHT-OF-WAY 68. ALL ROCKS OR STONES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. HORIZONTAL DIRECTIONAL DRILL HDD BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES RCP REINFORCED CONCRETE PIPE ARV - AIR RELEASE VALVE HDPE - HIGH DENSITY POLYETHYLENE 69. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES AND PUMP STATIONS ON PVC - POLYVINYL CHLORIDE ST STORM DRAIN EXISTING EX. 70. THE CONTRACTOR, PRIOR TO ANY TEMPORARY WATER SHUT-OFFS DURING WATER MAIN TIE-IN, ETC., SHALL NOTIFY BURIED TELEPHONE BT SANITARY SEWER THE AFFECTED RESIDENTS BY POSTING INFORMATIONAL SIGNS IN THE NEIGHBORHOOD AT LEAST TWO DAYS (48 HRS) SS FORCE MAIN PRIOR TO THE WATER SHUT-OFF. REFERENCE SECTION 01580, PARAGRAPH 1.03 OF THE SPECIFICATIONS. WHEN FM WATER MAIN FEASIBLE, "DOOR HANGERS" SHALL BE DELIVERED TO AFFECTED RESIDENCES AT LEAST TWO DAYS (48 HRS) PRIOR WM RW RECLAIM WATER MAIN TO WATER SHUT-OFF. FOR LARGE PROJECTS WITH HUNDREDS OF HOMES AFFECTED, THE CONTRACTOR SHALL ALSO ELLIPTICAL CONCRETE PIPE ECP MAKE EXTENSIVE USE OF THE MEDIA AND SHALL HAVE PRIOR CONTACT WITH HOMEOWNER'S ASSOCIATIONS AND THE RESPECTIVE CITY'S, WRITTEN NOTIFICATIONS SHALL ALSO BE FAXED TO THE TAMPA TRIBUNE, BRADENTON HERALD, AMI SUN, ISLANDER, SARASOTA HERALD TRIBUNE, WBRD RADIO, EMERGENCY COMMUNITY CENTERS, INSPECTIONS, WATER TREATMENT PLANT, WATER MANAGER, HELPLINE, CUSTOMER SERVICE, AND THE MANATEE COUNTY UTILITY OPERATIONS 71. ALL TEST POINT PIPING SHALL BE CUT LOOSE FROM THE CORPORATION STOP AND COMPLETELY REMOVED AND KIMLEY HORN LEGEND DISPOSED OF BY THE CONTRACTOR PRIOR TO FINAL ACCEPTANCE. A CORPORATION STOP PLUG SHALL BE INSTALLED PROPOSED FORCEMAIN 72. ALL EXISTING MAINS THAT ARE BEING REPLACED SHALL BE ABANDONED IN PLACE UPON ACCEPTANCE AND ACTIVATION OF THE NEW MAINS. ABANDONED MAINS SHALL BE CUT AND CAPPED. REFER TO SECTION 02064 OF THE EX. FORCEMAIN ----------------X-FM-12-------73. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID EX. WATERMAIN 74. 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 EX. SANITARY SEWER -X-SS-08-----X-SS-08-75. THE MCUD OFFICE OF INDUSTRIAL COMPLIANCE WILL DETERMINE WHETHER A LETTER OF APPROVAL, A DISCHARGE _____X-ST_____ EX. STORM 76. FOR SITES SUSPECTED OF CONTAMINATED GROUNDWATER MANATEE COUNTY WILL REQUIRE AN APPLICANT TO DEMONSTRATE THAT THE DISCHARGE MEETS THE MANATEE COUNTY SEWER USE ORDINANCE. EX. UNDERGROUND CONDUIT -X-UGC-----X-UGC-77. 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 PROPOSED ASPHALT REPAIR PROPOSED DRIVEWAY REMOVAL \times \times \times \times \times \times \times \times \times TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH F.D.O.T. DESIGN STANDARDS INDICES NO. 600, 603, 605, 611, 612, 613, 616, AND 660 DEPENDING ON THE OPERATION BEING PERFORMED. FOR ALL TWO-LANE WORK, TWO-WAY, WORK WITHIN TRAVEL LANE UTILIZE INDEX 603. EX. CONCRETE DRIVEWAY FOR ALL TWO-LANE WORK, TWO-WAY, WORK NEAR INTERSECTION UTILIZE INDEX 605. FOR ALL MULTILANE WORK OUTSIDE SHOULDER UTILIZE INDEX NO. 611. FOR ALL MULTILANE WORK WITHIN TRAVEL WAY MEDIAN OR OUTSIDE LANE UTILIZE INDEX NO. 613. FOR ALL MULTILANE WORK NEAR INTERSECTION MEDIAN OR OUTSIDE LANE UTILIZE INDEX NO. 616. EX. ASPHALT DRIVEWAY FOR PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALK, UTILIZE FDOT INDEX NO. 660. CONTRACTOR TO COORDINATE WITH ED HERNDON (941) 708-4436 AT FDOT FOR ALL WORK DONE ON EX. BRICK DRIVEWAY TO AVOID DISRUPTION DUE TO INCLEMENT WEATHER, THE CONTRACTOR SHOULD PERFORM ANY MILLING ALL EXISTING PAVEMENT MARKINGS OUTSIDE THE CONSTRUCTION LIMITS THAT HAVE BEEN ALTERED BECAUSE OF CONSTRUCTION OPERATIONS SHALL BE REPLACED UPON THE COMPLETION OF THE EX. SHELL DRIVEWAY 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 EX. GRAVEL/STONE 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. EX. INFILTRATION TRENCH 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 600 PEDESTRIAN AND WHEELCHAIR TRAFFIC SHALL BE ACCOMMODATED UTILIZING STANDARD INDEX 660. 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: GROUNDWATER THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF STORMWATER FROM ROADWAYS UTILIZED FOR TRAFFIC CONTROL IN A MANNER APPROVED BY THE ENGINEER. EWATERING NOTE 10. AT THE END OF EACH WORKING DAY'S ACTIVITY, TEMPORARY PAVEMENT MARKINGS AND THE PRESENCE OF GROUNDWATER TEMPORARY RPM'S SHALL BE INSTALLED PRIOR TO OPENING THE LANES UP FOR TRAFFIC. SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL 11. ALL PAVEMENT MARKINGS, SIGNS, MARKERS, CHANNELIZATION REQUIRED TO PHASE WORK OR INCLUDE CONSIDERATION FOR THIS SHIFT TRAFFIC, SHALL UTILIZE INDICES FOR PLACEMENT. ISSUE. WHEN PERFORMING GRADING 12. THE CONTRACTOR SHALL RESTRICT THE OPERATIONS SO THAT THE FIRST LIFT OF ASPHALT OPERATIONS DURING PERIODS OF WET IS PLACED ON THE SAME DAY THAT THE LANES ARE MILLED, BEFORE OPENING THE LANES WEATHER, PROVIDE ADEQUATE

MESSAGE	1			
"RIGHT" "LANE"	OR	"CENTER"	OR	"LEFT" "LANE"
"CLOSED"		"CLOSED"		"CLOSED"

- TO TRAFFIC, INSTALL TEMPORARY PAVEMENT MARKINGS AFTER THE FIRST LIFT AND PRIOR TO OPENING
- MILLING AND RESURFACING SHALL BE ACCOMPLISHED DURING THE OFF-PEAK HOURS.
- 14. 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 MUKUNDA GOPALAKRISHNA, P.E., PTOE, COUNTY TRAFFIC ENGINEER, AT 941-749-3500, EXT. 7813.

S. ALL DIRT AND OF DAILY CLEAN U	DEBRIS SHALL BE REMOVED FROM THE JOB SITE		Wade Wood III
KHA PROJEC 148400019			ELEPHER BOSSION
DATE 9/20/201	The County		WSWINDFF 4000 PH
SCALE AS SHO	FORCE MAIN 11 REPLACEMENT		"ITOFESSIONA"
DESIGNED BY	FORCE MAIN IT REPLACEMENT		FL LICENSEINDMBER
DRAWN BY	AE		69051
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MOISTURE OF SOILS.

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DEWATERING, DRAINAGE AND GROUND

WATER MANAGEMENT TO CONTROL

SHEET NUMBER

GENERAL NOTES

UTILITY LOCATION

DESIGNATION	GRADE	DESCRIPTION	TOP UTILITY EL	DESIGNATION	NORTHING	EASTING	ELEVATION	DESCRIPTION
WH 101	2.22'	3" CIP WM (MANCO)	0.22'	10	1159170.46	420375.94	3.07'	IRC (LB 7203
	2.13'		-0.17'	11	1158918.29	420835.62	2.69'	IRC (LB 7203
VVH 102		2" PVC WL (MANCO)		12	1158640.18	421254.44	2.87'	IRC (LB 7203
VVH 103	2.02'	12" CIP WM (MANCO)	-0.89'	13	1158194.16	421706.65	2.70'	IRC (LB 7203
VVH 104	2.45'	16" (NOT FIELD VERIFIED) CIP FM	-1.50'	14	1157850.22	422124.94	2.43'	IRC (LB 7203
VVH 105	2.54'	4" PVC BURIED TELEPHONE (FRONTIER)	-0.21'	15	1157439.57	422507.87	2.51'	IRC (LB 7203
VVH 106	2.56'	8" AC WM (MANCO)	-0.54'	16	1157096.24	422918.16	1.74'	IRC (LB 7203
VVH 107	2.85'	4" PVC BT & 2" DIR BUR BT (FRONTIER)	0.15'	17	1156772.00	422483.37	1.79'	ND (LB 7203)
VVH 108	2.45'	WM (NOT FIELD VERIFIED) (MANCO)	-3.25'	18	1157054.23	422312.73	1.96'	ND (LB 7203)
VVH 109	3.20'	8" CIP WM (MANCO)	0.55'					
VVH 110	3.32'	4" PVC BT & 2" DIR BUR BT (FRONTIER)	1.47'					
VVH 111	2.72'	16" DIP WM (MANCO)	0.97'			SURVEY NOT	ES	
VVH 112	2.88'	1/2" LEAD BT (FRONTIER)	0.14'					
VVH 113	2.12'	4" PVC BT & 1 1/2" DIR BUR BT (FRONTIER)) 1.15'	1. THE FOLLOWING N				
VVH 114	1.77'	6" AC WM (MANCO)	0.92'	ELEVATIONS INDICATED	HEREIN: "GIS	100" PID AG920	5 NAVD 1988	ELEVATION 2.56'
VVH 115	2.87'	8" AC WM (MANCO)	0.27'	2. THIS SURVEY IS R			THE FLORIDA	STATE PLANE COC
VVH 116	2.98'	16" DIP FM (MANCO)	-0.64'	(WEST ZONE NAD 198	3/2011 ADJUSTMI	ENT).		
VVH 117	2.95'	1 1/2" DIRECT BURIED BT (FRONTIER)	0.47'	3. THIS IS NOT A BO	UNDARY SURVEY.	TITLE WORK WA	S NOT PROVIDE	ED.
VVH 118	3.20'	16" DIP FM (MANCO)	0.10'	4. THIS SURVEY IS S	UBJECT TO PERTI	NENT EASEMENT	S. RIGHTS-OF-	WAY AND RESTRIC
VVH 119	3.00'	1" DIRECT BURIED BT (FRONTIER)	0.38'	IF ANY.			-1	
VVH 120	2.65'	2" DIRECT BURIED BT (FRONTIER)	0.64'	5. THIS SURVEY DRA	WING WAS PREPAR	RED FOR THE EX	CLUSIVE USE (OF THE PARTY OR
VVH 121	2.69'	1" DIR BUR BT & 1/2" DIR BUR BT	0.59'	TO BELOW FOR THE E				
VVH 122	2.82'	1" LEAD BT (2) (FRONTIER)	0.17'	HYATT SURVEY SERVICE THIS DRAWING, IN WHO				
VVH 123	2.77'	4" LEAD SPLICE BT (FRONTIER)	0.47'	WRITTEN CONSENT FR	OM HYATT SURVE	Y SERVICES, INC	. IS STRICTLY	PROHIBITED AND
VVH 124	1.95'	16" (NOT FIELD VERIFIED) STEEL FM	-2.05'	SURVEYOR'S CERTIFICA CONTENT OR PURPOSE				

200				
				Kimley»
				© 2017 KIMLEY-HORN AND
				655 NORTH FRANKLIN STREET, SUITE PHONE: 813-620
No.	REVISIONS	DATE	BY	WWW.KIMLEY-HORN.COM

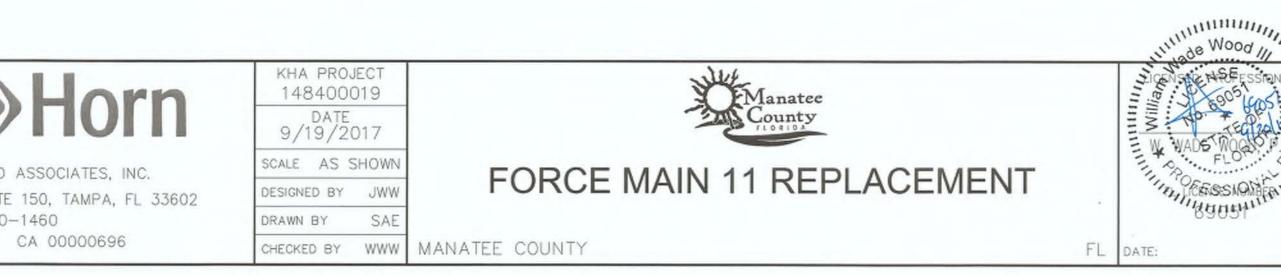
SITE CONTROL

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COORDINATE SYSTEM

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OR PARTIES CERTIFIED CONTRACT BETWEEN BUTING AND/OR USING NTENDED WITHOUT ND RENDERS THE ONCERNING THE ERVICES, INC.





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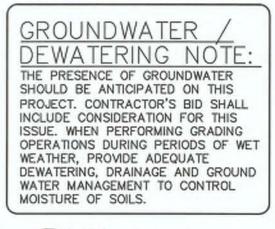
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SURVEY LEGEND SITE CONTROL POINT R/W RIGHT-OF WAY IP IRON PIPE FOUND ND NAIL W/ DISC IR IRON ROD FOUND IRC IRON ROD W/ CAP CONCRETE MONUMENT FOUND
 SUBSURFACE INVESTIGATION © SUBSURFACE INVESTIGATION S PALM # CONCRETE UTILITY POLE WME GUY WIRE TREE WATER METER MATER VALVE SANITARY MANHOLE P FIRE HYDRANT BFP → BACKFLOW PREVENTER UTILITY BOX UTILITY RISER © ELECTRIC SERVICE BOX C TELEPHONE SERVICE BOX

NOTE: 1. THIS INFORMATION WAS PROVIDED BY HYATT SURVEY SERVICES, INC.





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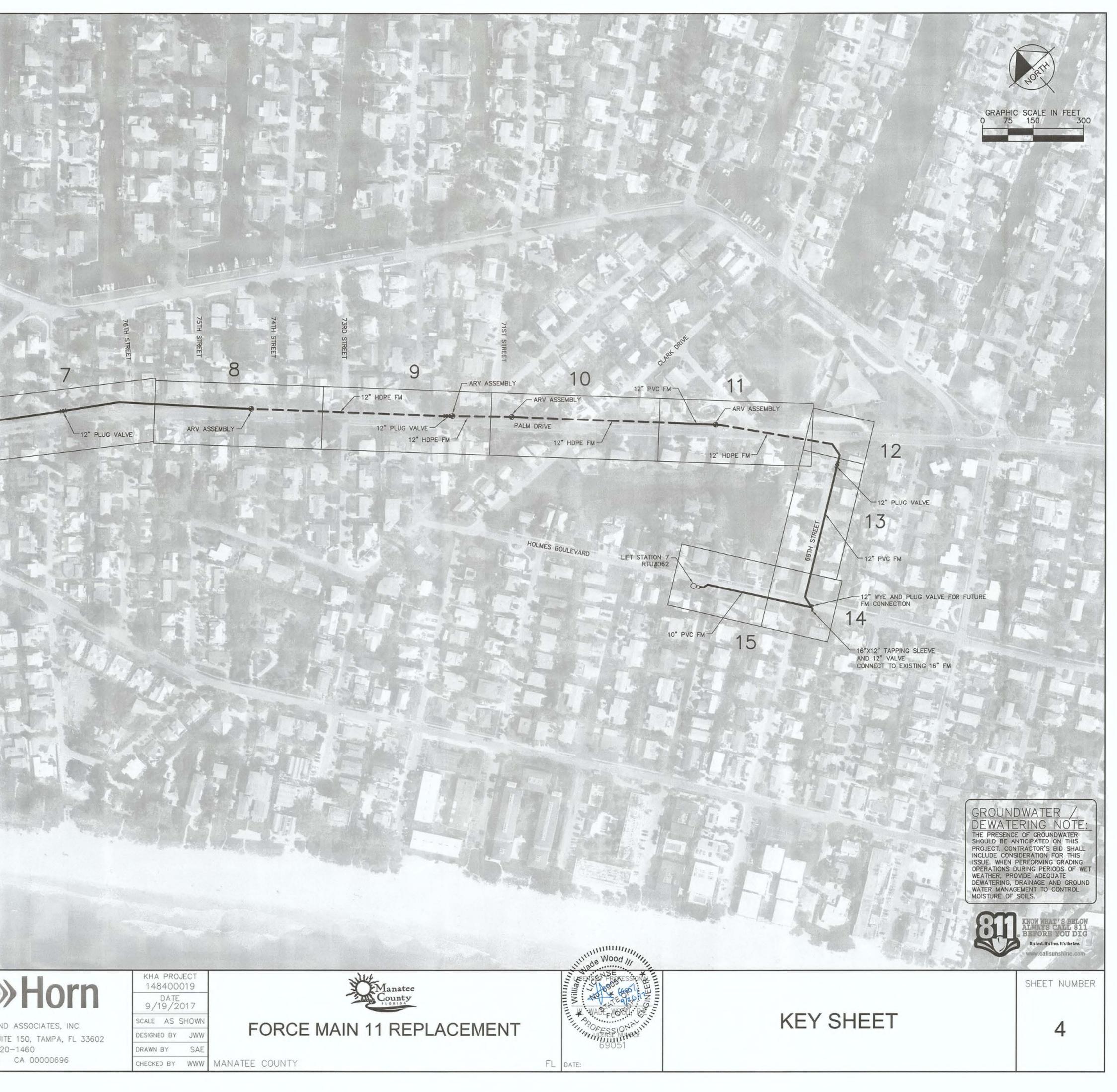
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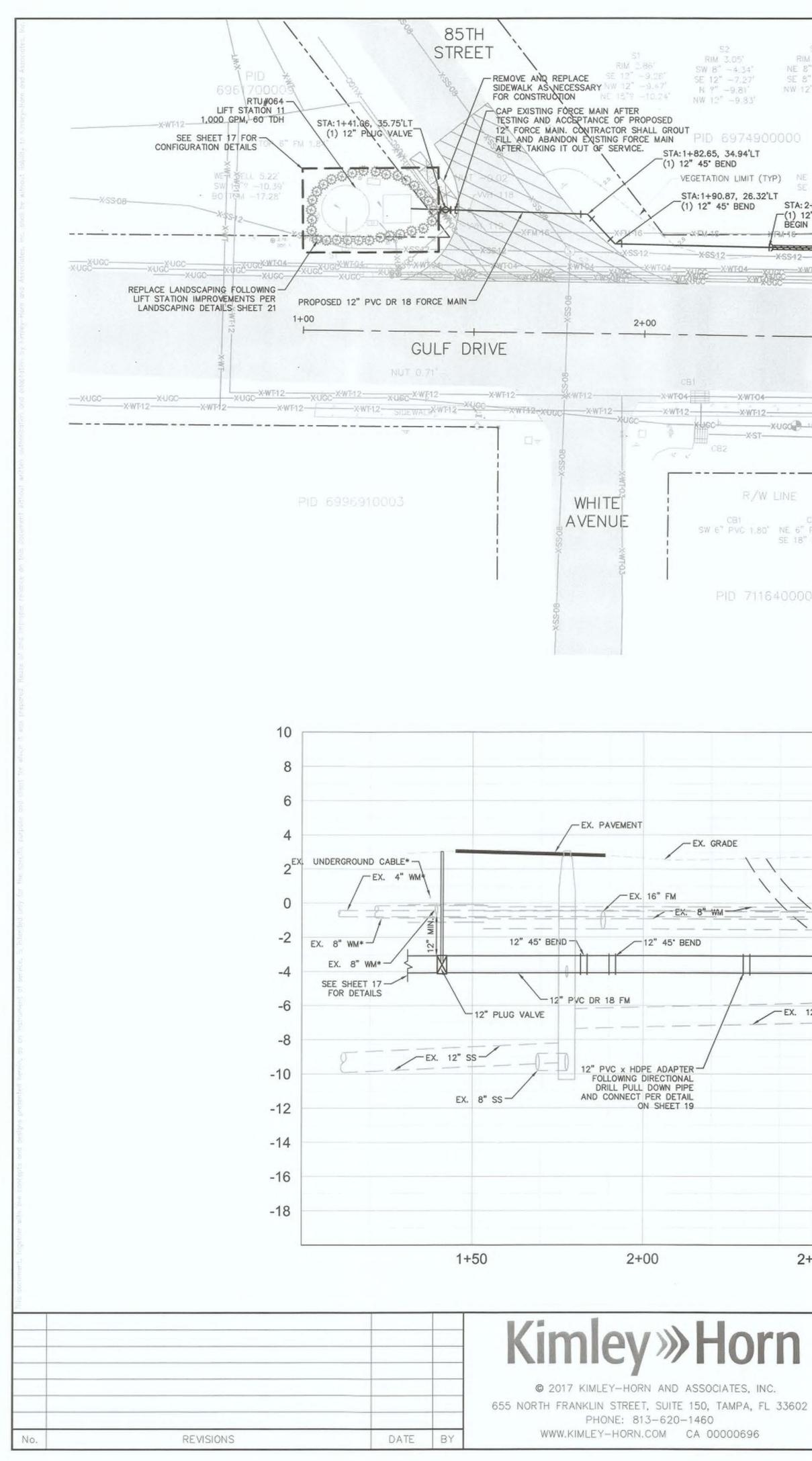
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SURVEY NOTES AND SUE TABLES

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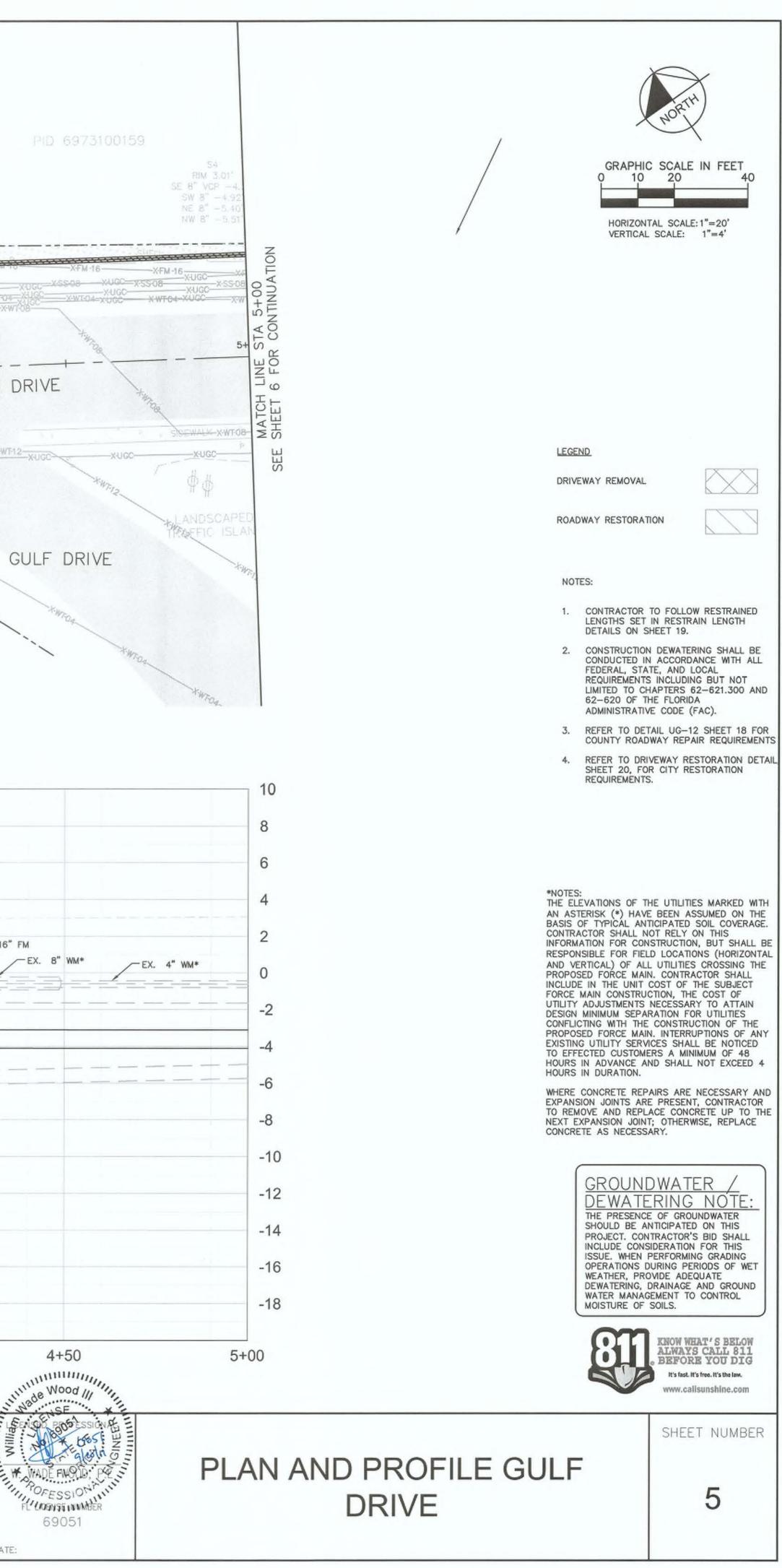


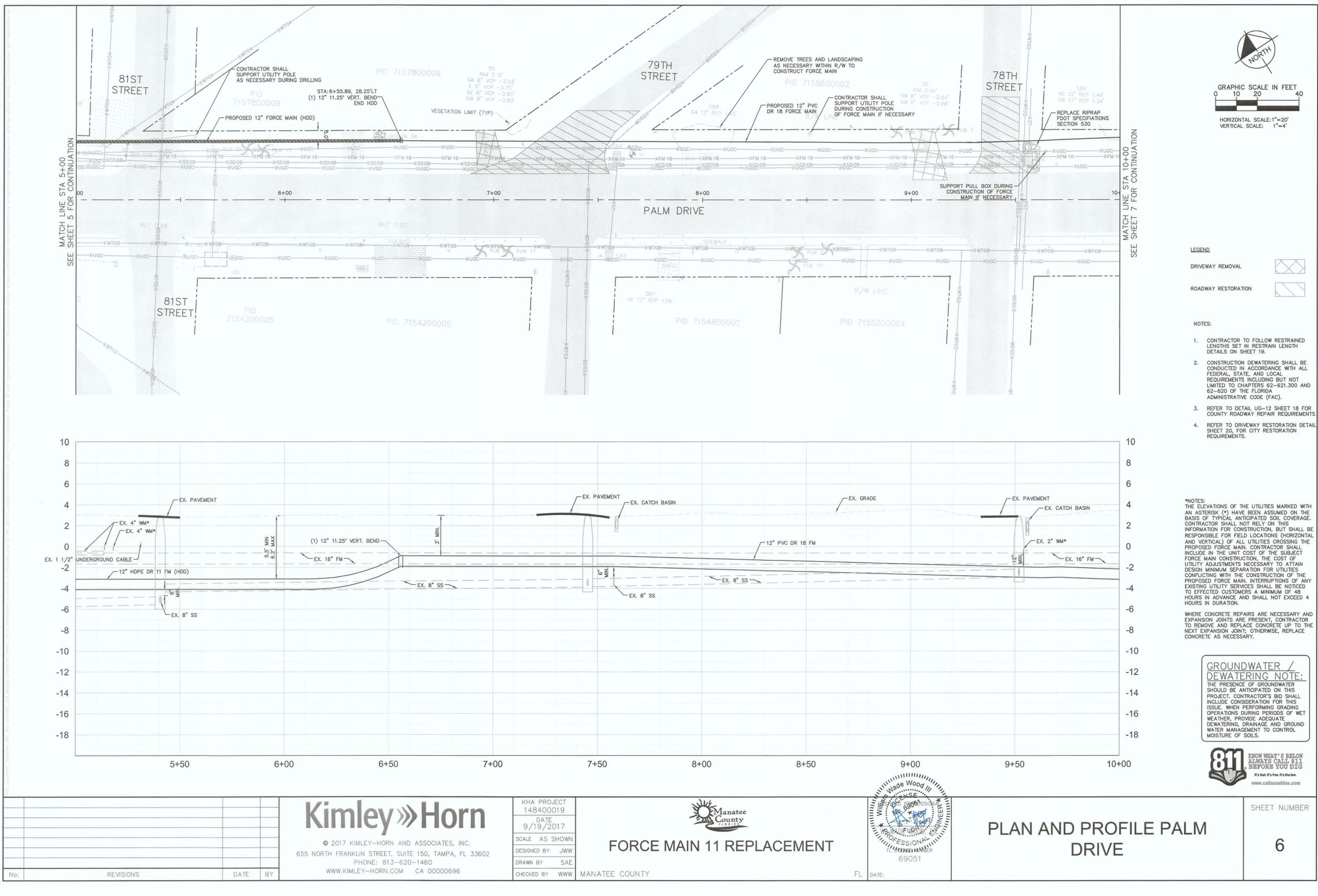


EX. GRADE	EX. 4" WM*	-EX. PAVE	EMENT EX. CATCH BASIN	EX. 12" STM	EX. 16" FM
D EX. 12"		8" SS - N"	EX. 8" SS	12" HDPE DR 11 FM (HDD)	
2+50)	3+00	3+50	4+00	4 Nade W
Horn ssociates, inc. 50, tampa, fl 33602 460 a 00000696	KHA PROJECT 148400019 DATE 9/19/2017 SCALE AS SHOWN DESIGNED BY JWW DRAWN BY SAE CHECKED BY WWW	FORC			FL DATE:

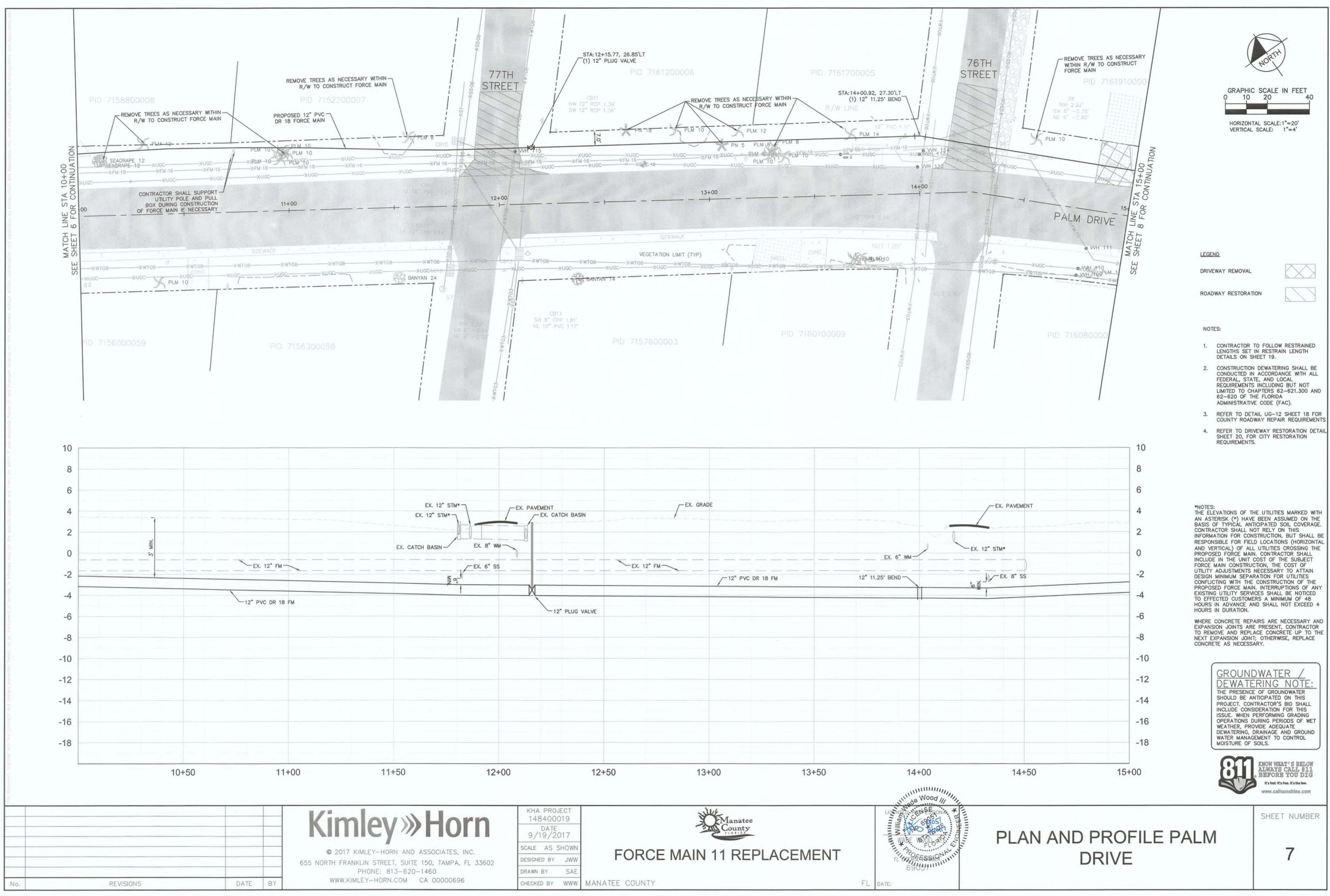
PID 7116400008

RIM 3.11' RIM 3.05 NE 8" -6.13 SW 8" -4:34" SE 12" -7.27" SE S" -6.56' NW 12" -6.66" 82ND STREET PID 6973800003 CB4 STA:1+82.65, 34.94'LT NE 4" RCP 1.57" (1) 12" 45" BEND NW 12" RCP 0.97 VEGETATION LIMIT (TYP) NE 12" RCP 0.87 SE 12" PVC 0.82" - PROPOSED 12" HDPE DR 11 FORCE MAIN (HDD) STA:1+90.87, 26.32'LT (1) 12" 45" BEND STA: 2+36.10, 26.00'LT (1) 12" PVC x HDPE ADAPTER XFM 16-______XSS12______XSS12____XSS12____XSS12____XSS12____XSS12____XSS12____XSS12____XSS12____XSS12____XSS12____XSS12____XSS12____XSS12____XSS12____XSS12____XSS12____XSS12____XSS12____XSS12____XSS12____XSS12____XSS12___XSS12___XSS12___XSS12___XSS12___XSS12___XSS12___XSS12___XSS12____XSS12____XSS12____XSS12____XSS12____XSS12____XSS12____XSS12___XSS12____XSS12____XSS12____XSS12____XSS12____XSS12___XSS12___XSS12___XSS12__XSS232__XSS232__XSS232__XSS232_XSS232_XSSS232_XSSS232_XSS232_XSSS232_XSSS232_XSS232_XSSS232_XSSS232_XSSS232_XSSS232_XS -X-SS-08-FOR XUEC XWT04 XUEC XWT04 XUEC XWT04 Y.WITCH-XWTO: XWTO: XWTO: XWTO X WIGHT X WIGHT 3+00 4+00 PALM DRIVE -X-WT-04-----X-WT-04-----X-WT-04------X-WT-04--X-WT-12-----X-WT-12 -----R/W LINE NE B" METAL 1.52" CB1 CB2 SW 6" PVC 1.80' NE 6" PVC 2.01' SE 12" RCP 1.07" SE 18" RCP 1.11 PID 7116300000

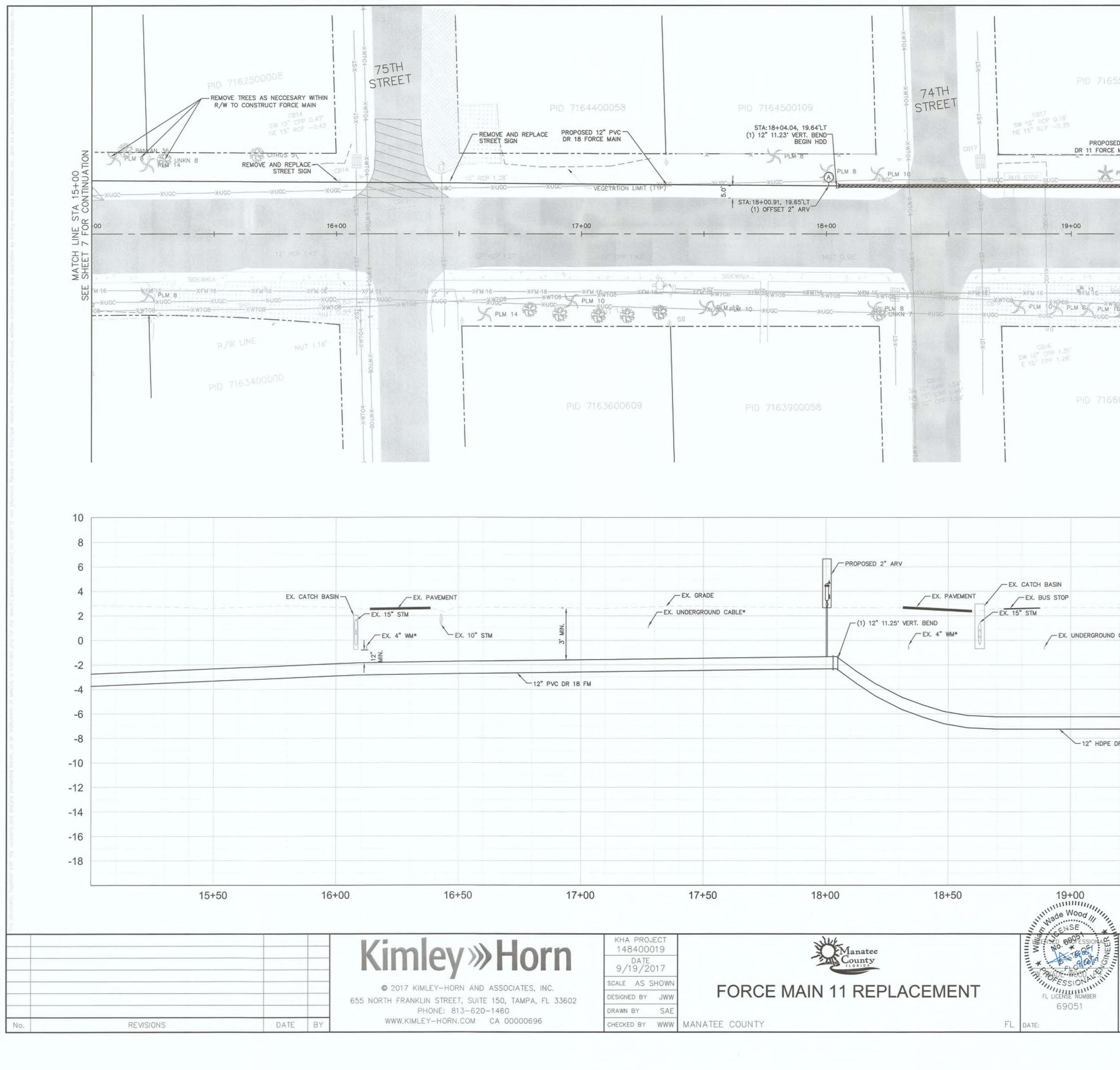




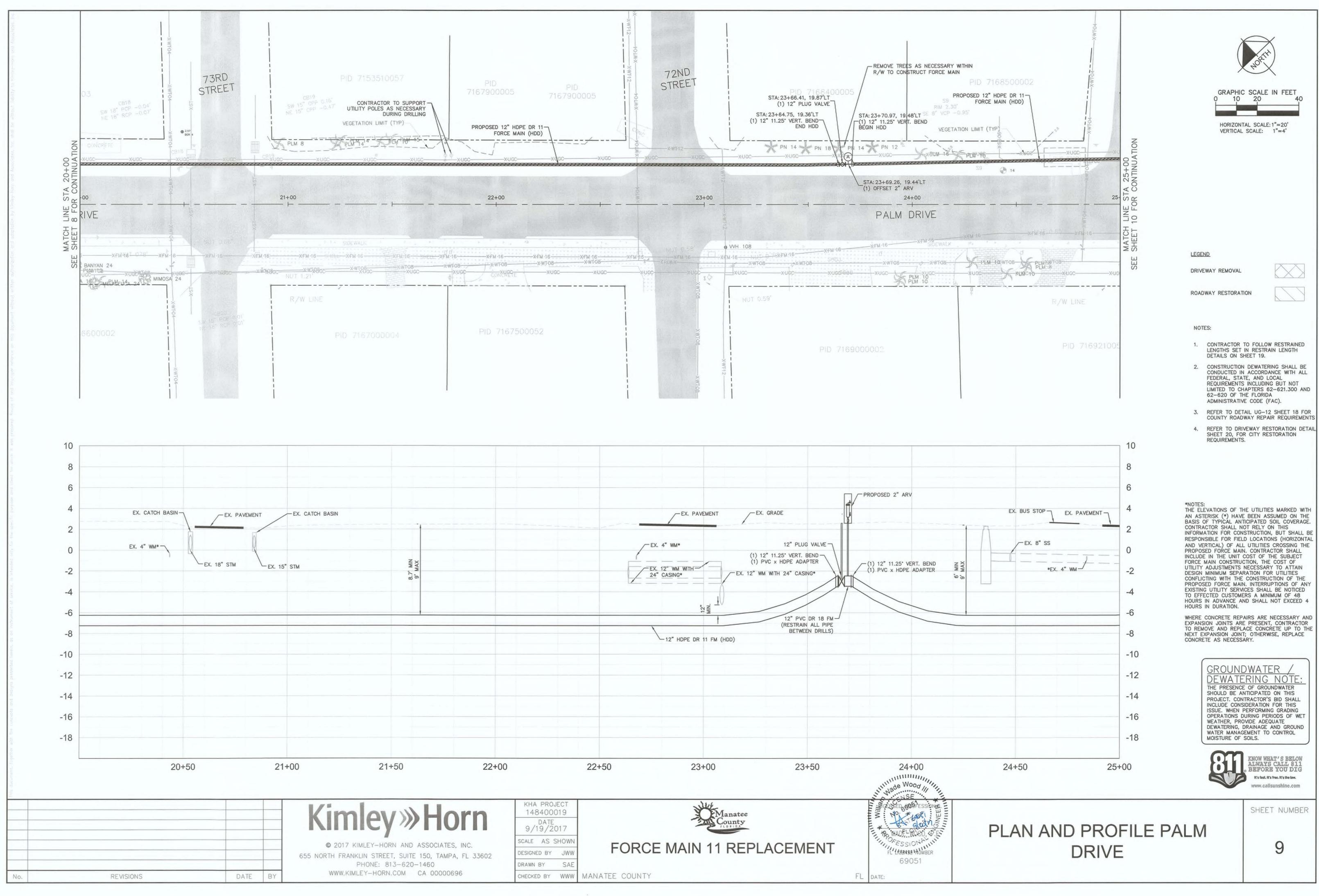
	9/19/2017	Country	
ID ASSOCIATES, INC.	SCALE AS SHOWN		
ITE 150, TAMPA, FL 33602	DESIGNED BY JWW	FORCE MAIN 11 REPLACEMENT	
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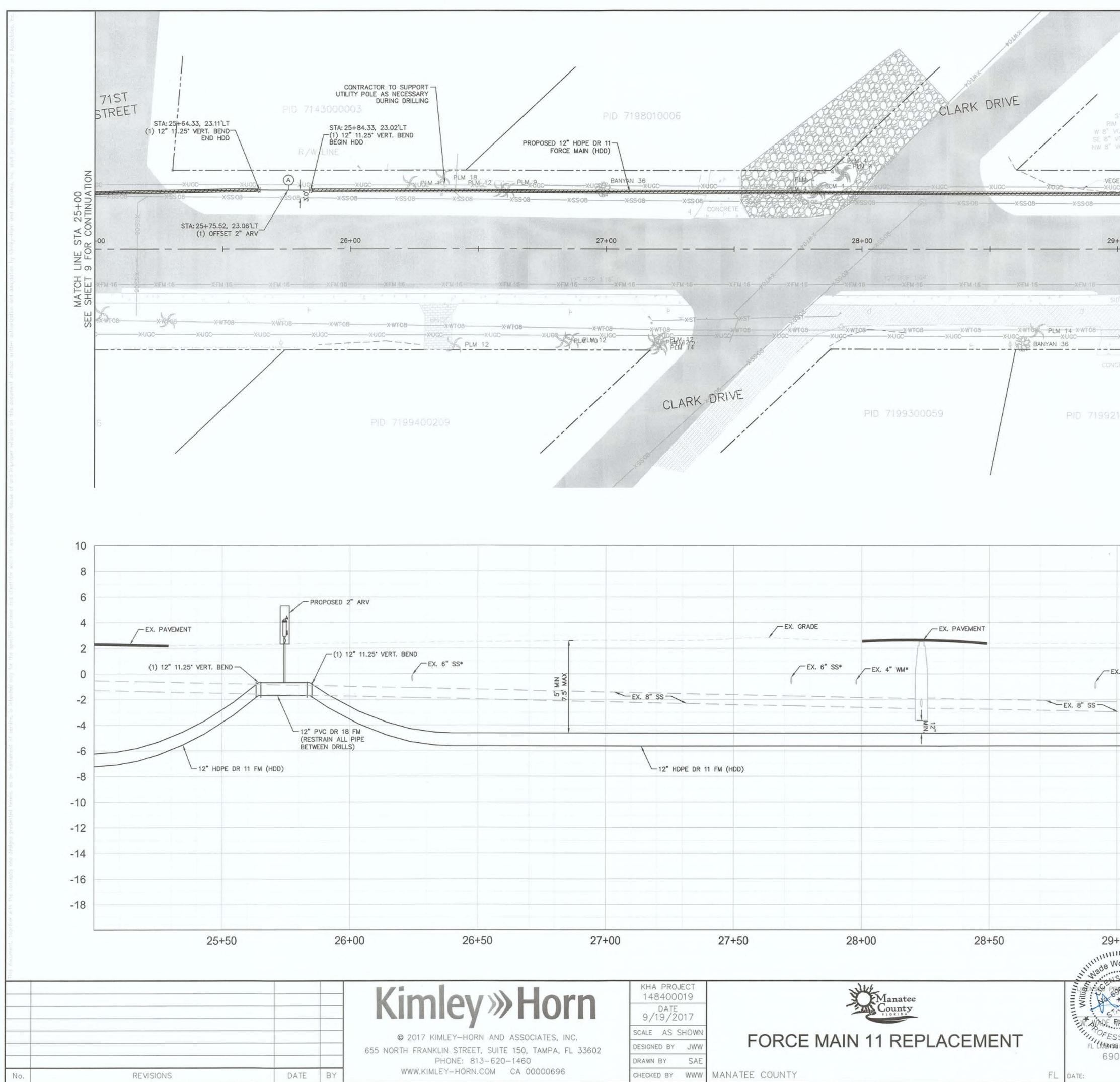
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RIM S R R R R R R R R R R R R R R R R R R	SW 8" CPP 1.81' NE 10" PVC 1.17	PID 7157600003		PID 7160100009	03XWF03
EX. 12" STM*	EX. PAVEMENT EX. CATCH BASIN		- EX. GRADE		
BASIN EX. 8" WM		EX. 12" FM		18 FM	EX. 6" WM
	12" PLUG VALV	E			
12+(00	12+50	13+00	13+50	1.
Horn SOCIATES, INC. 50, TAMPA, FL 33602 60 00000696	KHA PROJECT 148400019 DATE 9/19/2017 SCALE AS SHOWN DESIGNED BY JWW DRAWN BY SAE CHECKED BY WWW M/	FORCE N	Manatee County MAIN 11 REP	LACEMENT	Millianson



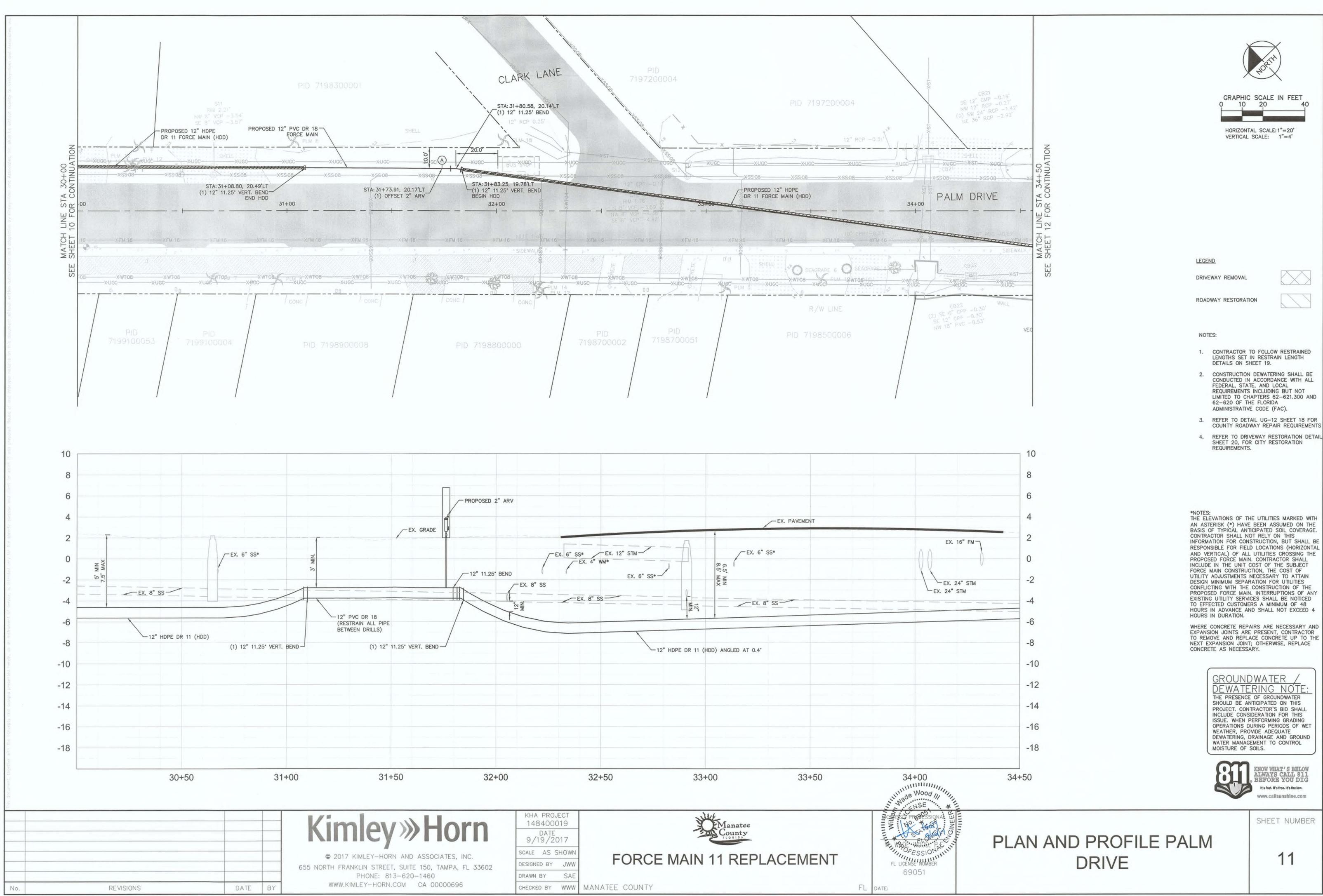
PID 7165500005		GRAPHIC SCALE IN FEET 0 10 20 40 HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=4'
9+00 -1	PALM DE SIDEWALK XFM-16 XFM-1 WT08 X-WT08 X-WT08 X-WT08 MELALEUC	HOTAN REMOVAL
PID 7166000109	PID 716	NOTES: 1. CONTRACTOR TO FOLLOW RESTRAINED LENGTHS SET IN RESTRAIN LENGTH DETAILS ON SHEET 19. 2. 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). 3. REFER TO DETAIL UG–12 SHEET 18 FOR COUNTY ROADWAY REPAIR REQUIREMENTS 4. REFER TO DRIVEWAY RESTORATION DETAIL SHEET 20, FOR CITY RESTORATION DETAIL SHEET 20, FOR CITY RESTORATION REQUIREMENTS. 10 8
UNDERGROUND CABLE*		 *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 (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. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO EFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION. -6 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.
0+00 19+50	20-	-10 -12 -14 -16 -18 -00 -10 -10 -10 -10 -10 -10 -10
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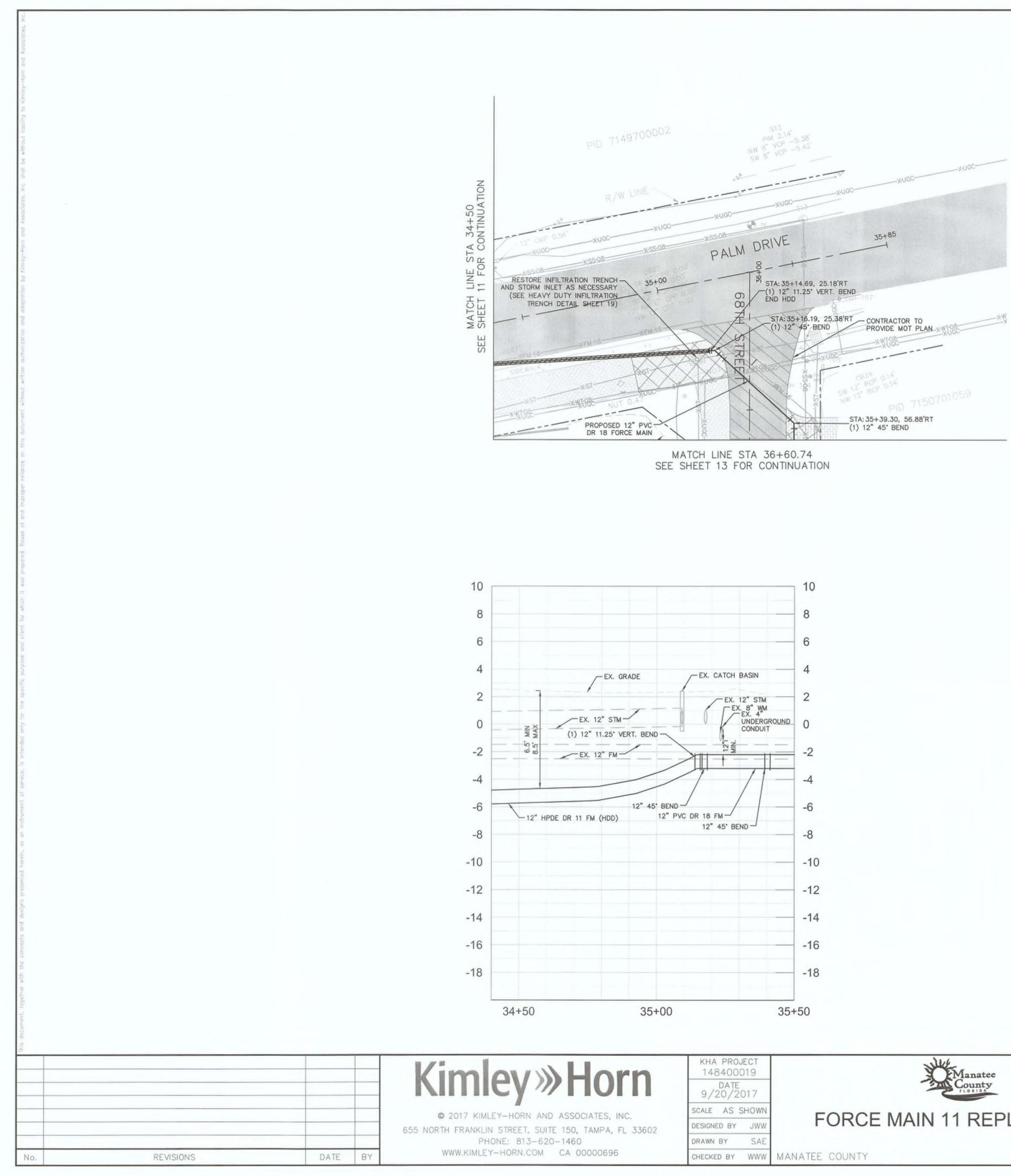


					PROPOSED
			EX. PAVEMENT	EX. GRADE	
			EX. 4" WM* EX. 12" WM WITH 24" CASING*	12" PLUG VA (1) 12" 11.25" VERT. BEND (1) PVC x HDPE ADAPTER EX. 12" WM WITH 24" CASING*	
			12" HDPE DR 11 FM	12" PVC DR (RESTRAIN ALL BETWEEN D	18 FM L PIPE RILLS)
22+00		22+50	23+00	23+50)
orn	KHA PROJECT 148400019			Janatee	Willing
ATES, INC. AMPA, FL 33602	DATE 9/19/2017 SCALE AS SHOWN DESIGNED BY JWW DRAWN BY SAE	FORC		REPLACEMEI	NT
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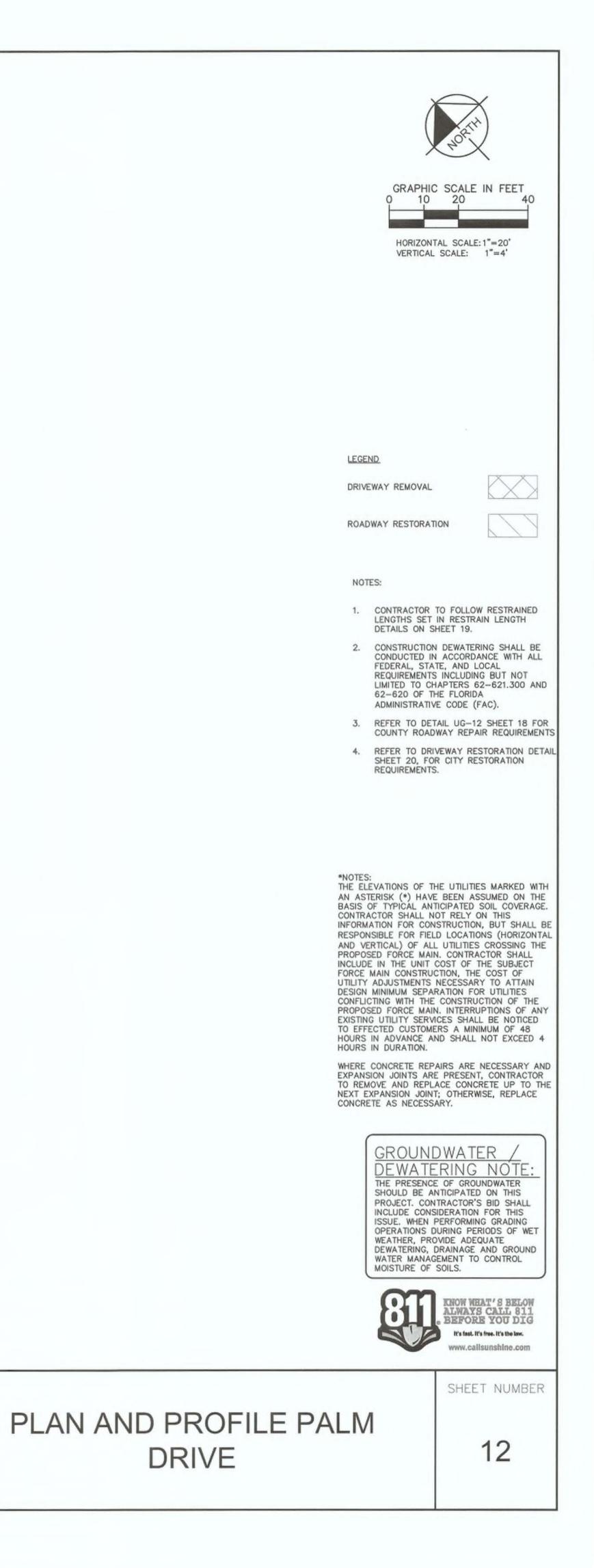


			NORTH
S10 M 2.51' VCP -2.61'	PID 7198200003		GRAPHIC SCALE IN FEET
VCP -2.61 VCP -2.67	R/W LINE	z	HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=4'
GETATION LIMIT (TYP) GCXUGC X-SS-08	x-ugc x-ugc	E STA 30+00 FOR CONTINUATION	
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XFM-16 XF		MATCH SHEET	
-X-UGC X-UGC	WF08XWF08XWF0	XUGC-	VAY REMOVAL
	R/W LINE	NOTE	S:
210001	PID 71992000		CONTRACTOR TO FOLLOW RESTRAINED LENGTHS SET IN RESTRAIN LENGTH DETAILS ON SHEET 19.
/			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).
		4.	REFER TO DETAIL UG-12 SHEET 18 FOR COUNTY ROADWAY REPAIR REQUIREMENTS REFER TO DRIVEWAY RESTORATION DETAIL SHEET 20, FOR CITY RESTORATION
		10	REQUIREMENTS.
		8	
		AN ASTE BASIS OF	VATIONS OF THE UTILITIES MARKED WITH RISK (*) HAVE BEEN ASSUMED ON THE F TYPICAL ANTICIPATED SOIL COVERAGE.
EX. 6" SS*		0 INFORMA RESPONS AND VER PROPOSE	TOR SHALL NOT RELY ON THIS TION FOR CONSTRUCTION, BUT SHALL BE SIBLE FOR FIELD LOCATIONS (HORIZONTAL TICAL) OF ALL UTILITIES CROSSING THE TO FORCE MAIN, CONTRACTOR SHALL IN THE UNIT COST OF THE SUBJECT
		-2 DESIGN M CONFLICT PROPOSE -4 EXISTING TO EFFEC	AIN CONSTRUCTION, THE COST OF ADJUSTMENTS NECESSARY TO ATTAIN MINIMUM SEPARATION FOR UTILITIES TING WITH THE CONSTRUCTION OF THE D FORCE MAIN. INTERRUPTIONS OF ANY UTILITY SERVICES SHALL BE NOTICED CTED CUSTOMERS A MINIMUM OF 48 N ADVANCE AND SHALL NOT EXCEED 4
		-6 HOURS IN WHERE C EXPANSIO TO REMO	ONCRETE REPAIRS ARE NECESSARY AND ON JOINTS ARE PRESENT, CONTRACTOR IVE AND REPLACE CONCRETE UP TO THE
		-8 NEXT EX	PANSION JOINT; OTHERWISE, REPLACE E AS NECESSARY.
		-12	GROUNDWATER / DEWATERING NOTE: THE PRESENCE OF GROUNDWATER
		-14	SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET
		10	WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.
Nood III	29+50	30+00	KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG It's from it's the low. Www.callsunshine.com
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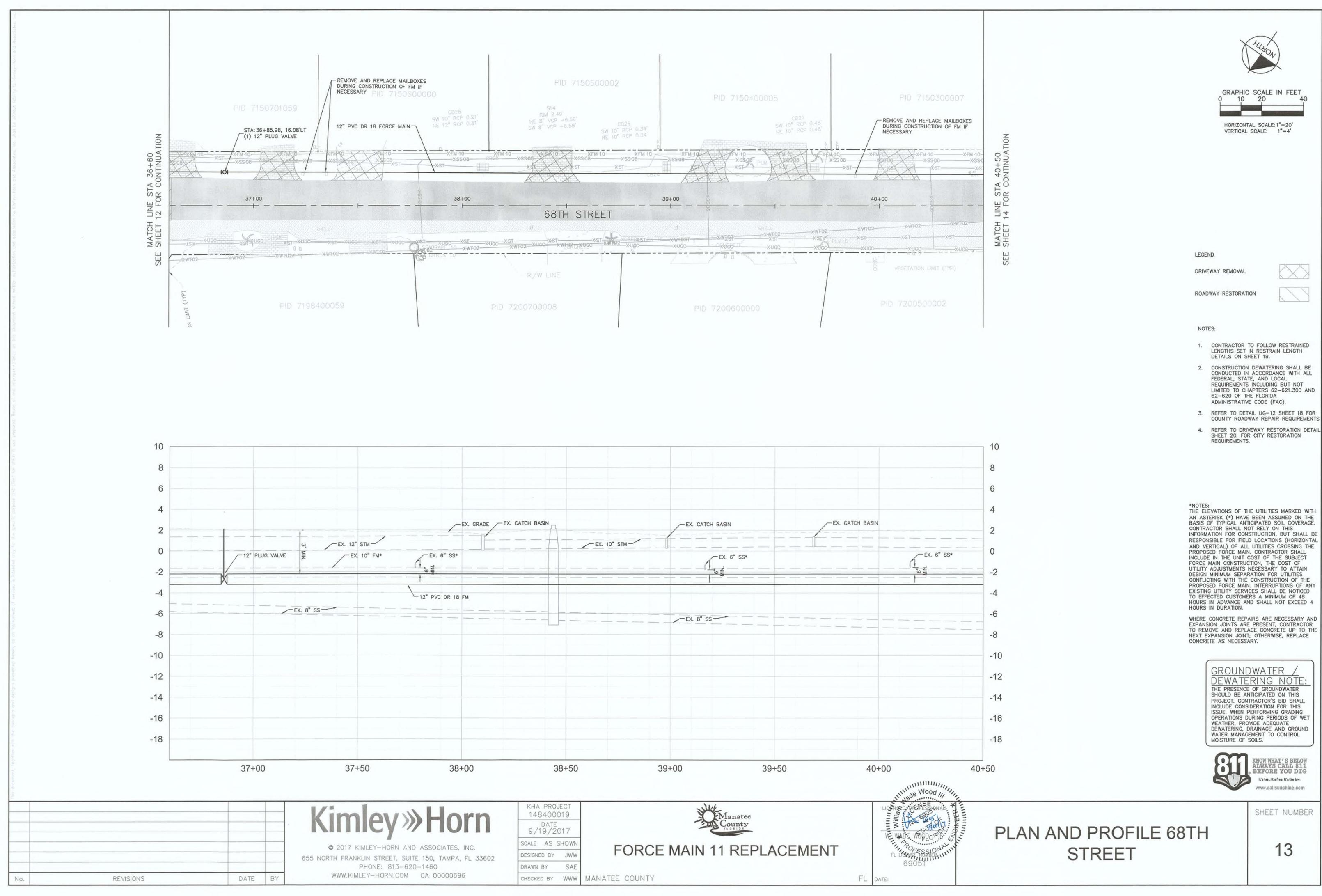




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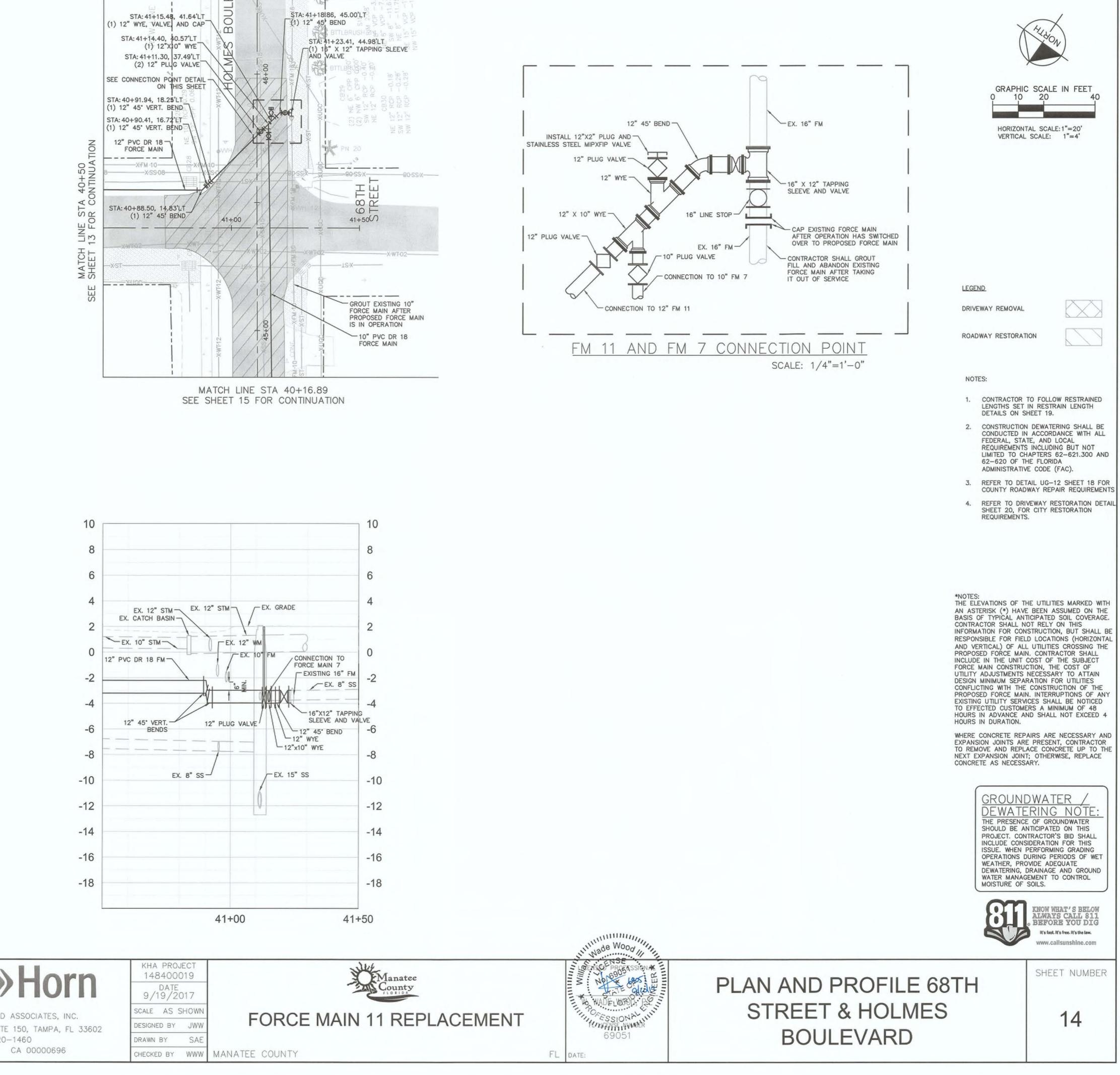


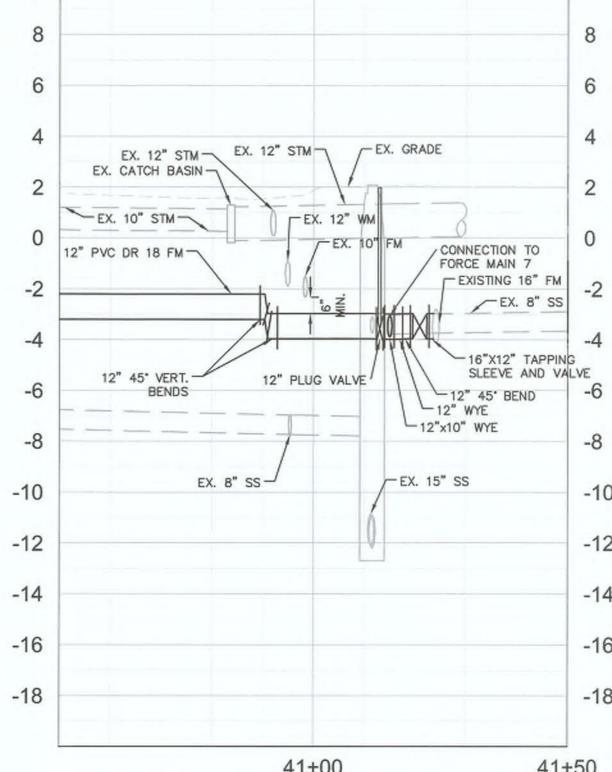
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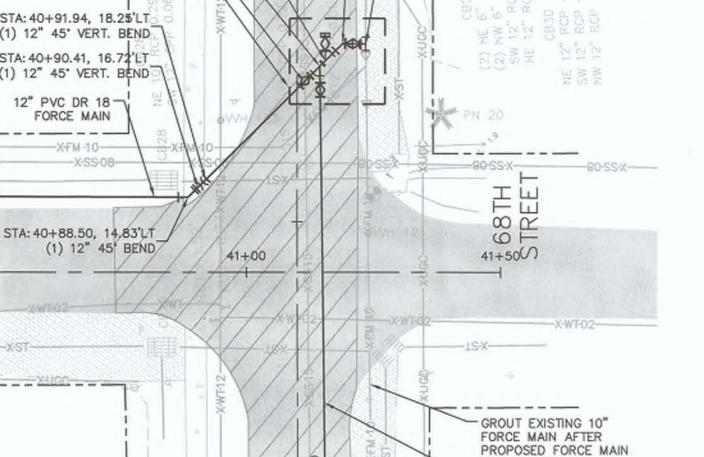


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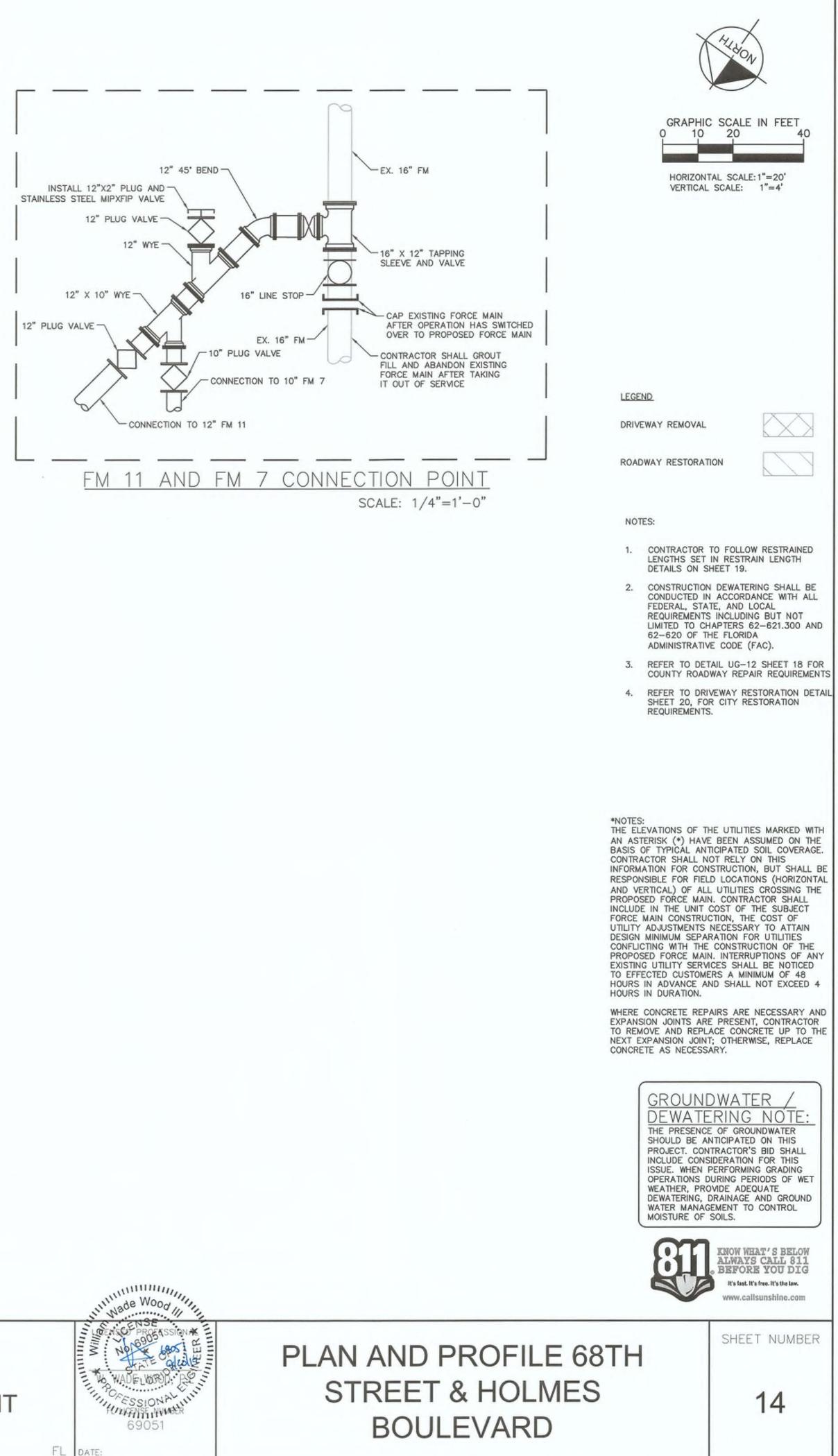


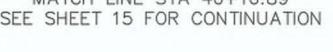


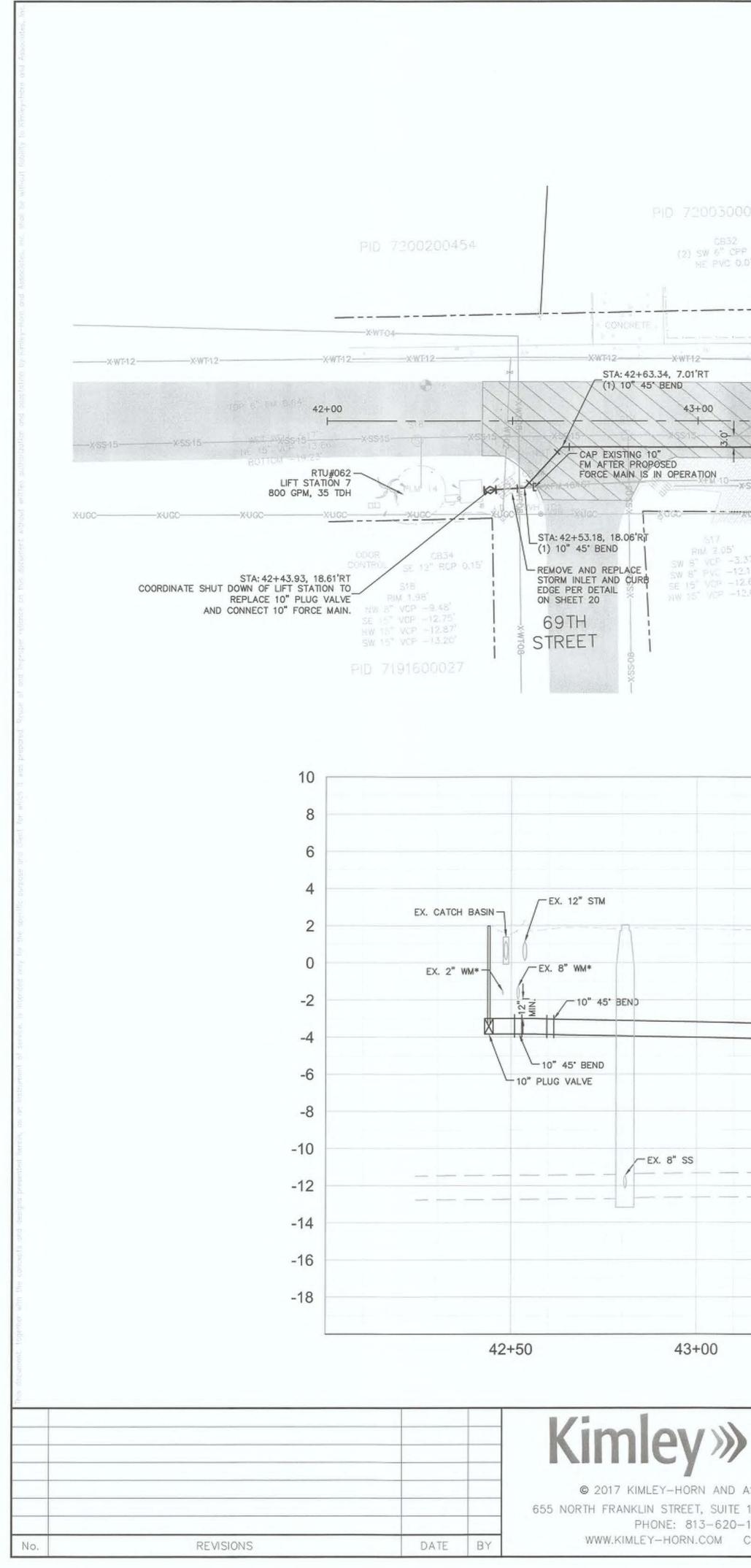


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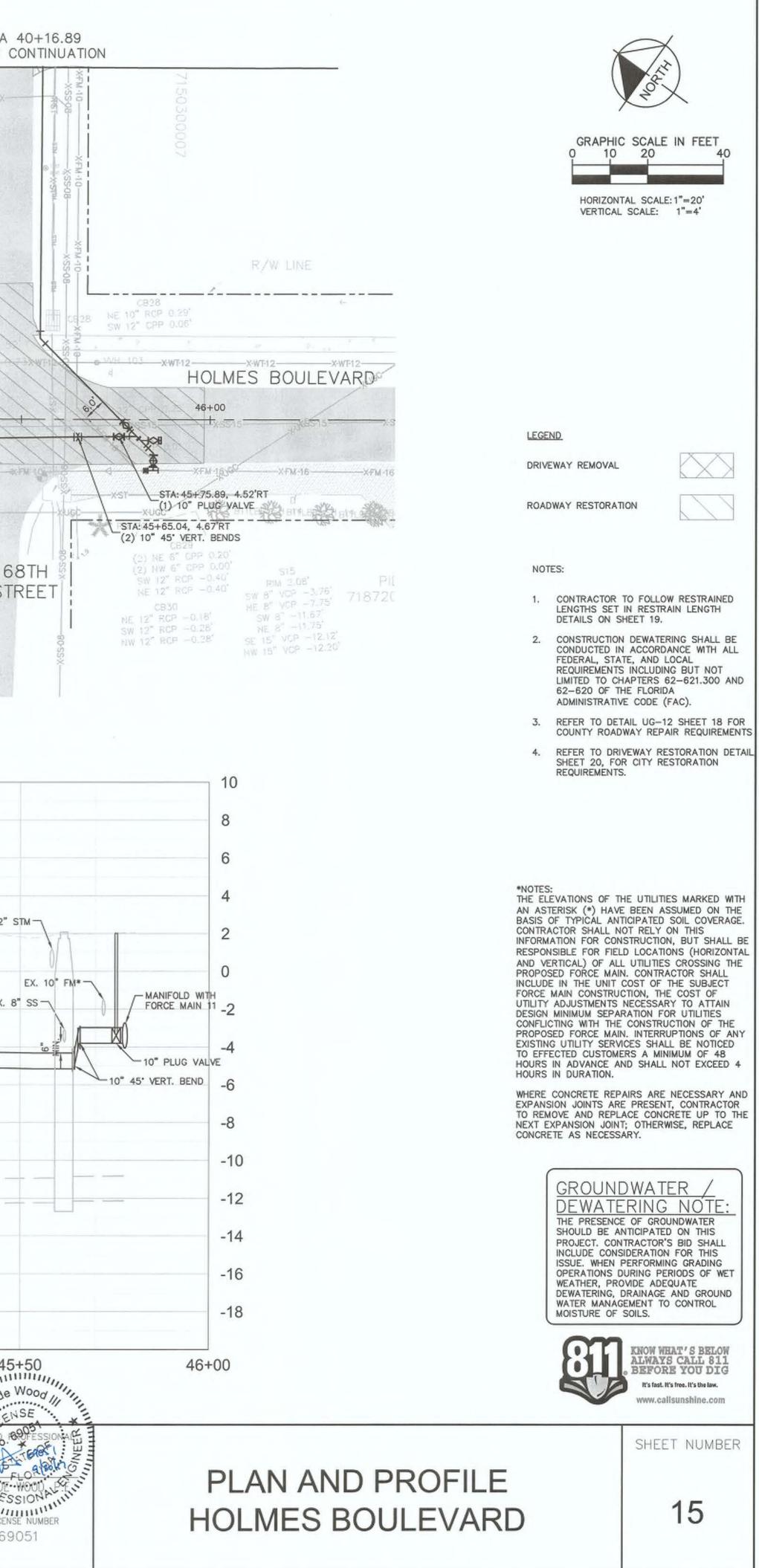


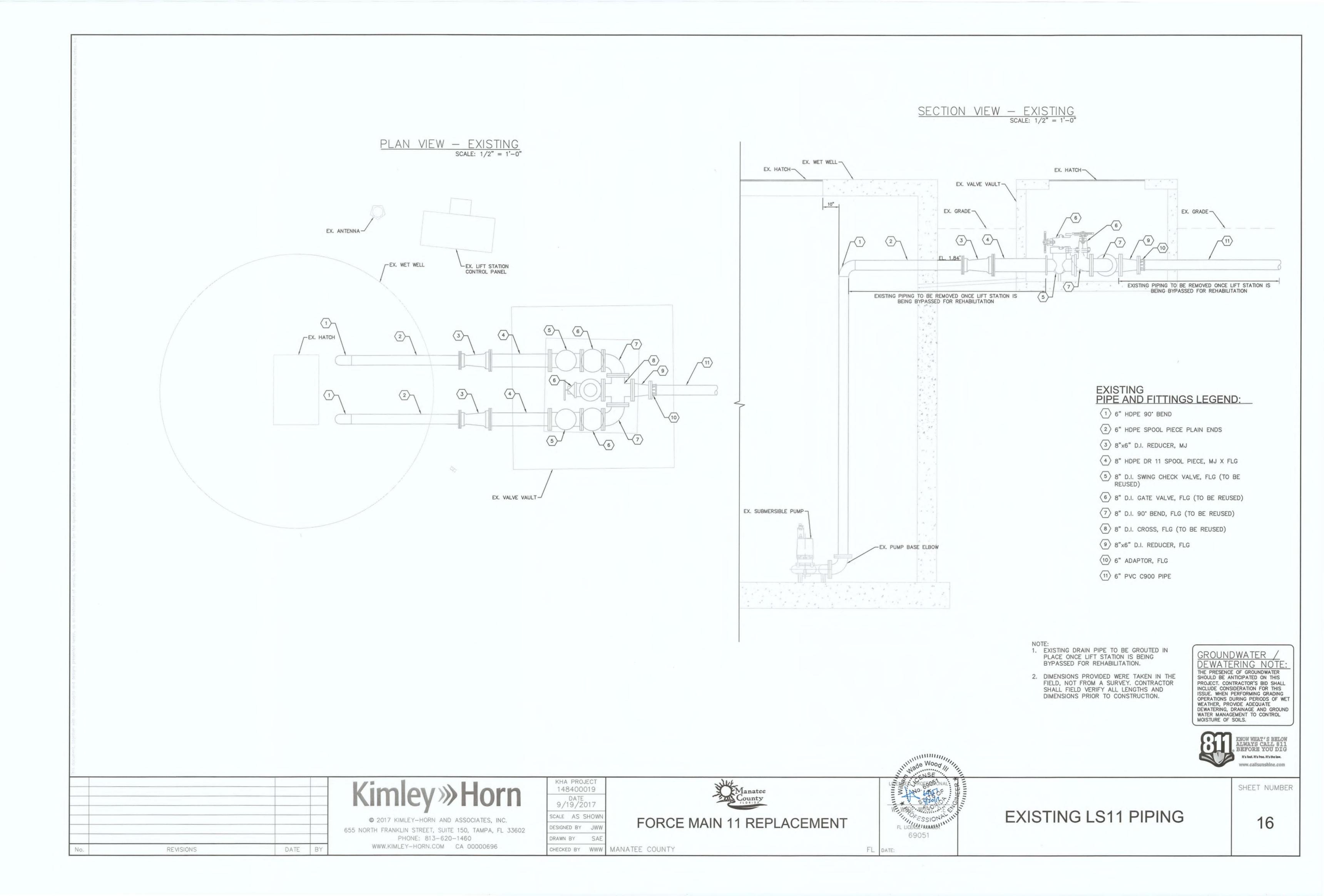


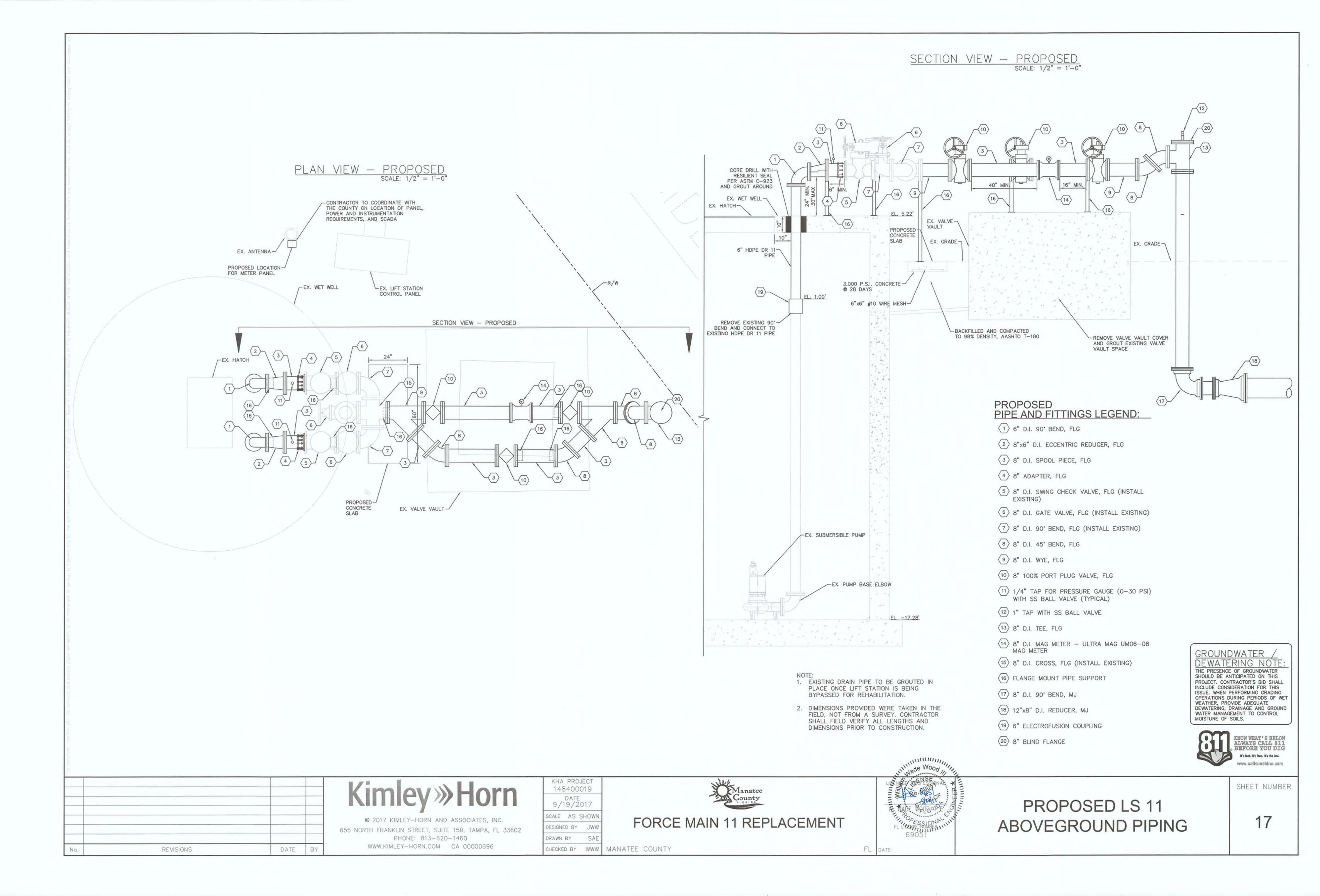


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ñ					EX. 1
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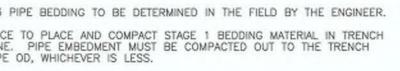
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solutes, inc. shall be althout satisfy to forthey-then and Assolutes, too,	 NOTES: USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE PROVIDE ADEQUATE CLEARANCE TO PLACE AND CON BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST TIMES THE PIPE OD, WHICHEVER IS LESS. TYPICALLY 4" TO 6". PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH PR AS EXISTING OR A MINIMUM OF 1 1/4 INCH, WHICH MILL 25' BACK FROM TRENCH SAW CUT. ADJUST 1 BUTT JOINT TO EXIST ASPHALT. FINAL OVERLAY LIN PAVEMENT. FINAL OVERLAY TO MATCH EXISTING WIT LIMITS THAT IMPACT INTERSECTION SHALL BE ADDRE BY MANATEE COUNTY. SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF SUBGRADE. BASE SHALL BE 8" MINIMUM THICKNESS CRUSHED 19. TEMPORARY PATCHES WILL BE INSTALLED TO PROVI TIMES. PERMANENT REPLACEMENT TO BE MADE AS 10. RESTORE SIGNAGE & MARKING WITH THERMOPLASTIC 11. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS. NOTES 5. THRU 10. ARE MINIMUM REQUIREMENTS F EDITION OF MANATEE COUNTY HIGHWAY AND TRAFFIC 	THE MANUFACTURER'S WRITE THE MANUFACTURER'S WRITE IME COAT SHALL BE THE SA HEVER IS GREATER. WILLING PER INDIVIDUAL SITE IT'S ARE FROM EDGE OF PA TH NO DISCERNABLE "BUMP" SSED ON A CASE BY CASE 24" BELOW FINISHED GRAD CONCRETE. DE A SMOOTH ALL WEATHER SOON AS POSSIBLE. 24 PER FDOT STANDARDS, LAT	TERIAL IN TRENCH AREA TRENCH WALL OR 2.5 TEN INSTRUCTIONS. ME DEPTH AND TYPE TO NOT IMPACT BASE. WEMENT TO EDGE OF AT JOINT. MILLING BASIS AND APPROVED DE OR 12" BELOW SURFACE AT ALL TEST EDITION.	NOTES: 1. USE OF TYPE A-2 AND A-3 2. PROVIDE ADEQUATE CLEARANC AREA BELOW PIPE SPRINGLINE WALL OR 2.5 TIMES THE PIPE 3. TYPICALLY 4" TO 6". 4. PIPE INSTALLATION SHALL BE 5. THICKNESS TO MATCH EXISTIN 6. SHEETING ORDERED LEFT IN F SUBGRADE. 7. BASE SHALL BE 8" MINIMUM 8. TEMPORARY PATCHES WILL BE TIMES. PERMANENT REPLACEM 9. TRACER WIRE NOT REQUIRED 10. NOTES 5. THRU 8. ARE MINIM TRAFFIC STANDARDS FOR ADD
nce an this document without written gulheelgdtion and odaplation by Marley-Harn and Ass	ASPHALT COLORED COMMON FULL	INME COAT (SEE NOTE 5)	25' MILL EXIST. ASPHALT, NEW ASPHALT TO MATCH EXISTING. SAW CUT JOINT EXIST. 081-1 OUHSW 'JUSKED & COMBNCLIP EXIST. 081-1 OUHSW 'JUSKED & SOME EXIST.	EXISTING CONCRETE SLAB 3" WARNING TAPE 12" BELOW FINSH SURFACE OR 6" WARNING TAPE BETWEEN 12" & 24" BELOW FINSH SURFACE OVER PIPE TAPE SHALL BE MARKED "WATER". "SEWER" OR "RECLAIMED SELECTED COMMON FILL PIPE BEDDING ENVELOPE (SEE NOTE 1) #10 COPPER WIRE CONTINUOUS (SEE NOTE 9)
red Reuse of and Impropor valia	REV.BY DATE PAVEI	NCH WITH ASPHAL MENT SURFACE TY -1 PIPE BEDDING	Contract of the second s	MANATEE COUNTY PUBLIC WORKS DEPARTMENT REV.BY DATE CLB/BR 11/10 MAY 10, 201 DATE OF APPROVA DATE OF APPROVA
a specific purpose and client for mich if whit pres	 SIDEWALK SHALL BE CONSTRUCTED A MINIMU WHERE SIDEWALK BISECTS A DRIVEWAY, THE REINFORCED WITH 6"x6" #10 WIRE MESH. ALL SIDEWALKS SHALL BE CONSTRUCTED TO COUNTY LAND DEVELOPMENT CODE, SECTION SHALL BE INSTALLED ALONG THE NORTH AND WHICH ARE CONSTRUCTED IN CONJUNCTION 'A SIDEWALK A MINIMUM OF (5) FEET IN WID OF ALL THOROUGHFARES. REFER TO F.D.O.T REVISION FOR CURB CUT RAMP SPECIFICATIO THE CONCRETE SHALL BE GIVEN A BROOM F NOT BE MORE THAN 1/4" UNDER A TEN FO 1/8" ON A FIVE-FOOT TRAVERSE SECTION. CAREFULLY FINISHED WITH AN EDGING TOOL 	MINIMUM SHALL BE 6" O THE SPECIFICATIONS OF 722. A MINIMUM (5) FO 0 WEST SIDES OF ALL NE WITH A NEW RESIDENTIAL TH SHALL BE INSTALLED T. ROADWAY AND TRAFFIC INSH. THE SURFACE VAR OT STRAIGHTEDGE, NOR N THE EDGE OF THE SIDEV	THE MANATEE OOT WIDE SIDEWALK W LOCAL STREETS DEVELOPMENT. ON BOTH SIDES STANDARDS, LATEST	A= BACK OF CURB TO R/W (VARIES B= UNPAVED AREA (VARIES). REFE F.D.O.T. GREEN BOOK, TABLE 3- C= VARIES, SEE 401 SERIES
e dir litistischent of service. In intended enty for In	 4. EXPANSION JOINT: EXPANSION JOINTS BETWEE DRIVEWAY OR AT FIXED OBJECTS AND SIDEW/ MATERIAL SHALL MEET THE REQUIREMENTS O FOR LONG POORS, AN EXPANSION JOINT SHA EXCEED 120'. 5. CONTRACTION JOINTS: OPEN TYPE JOINTS OPEN TYPE CONSTRACTION JOINTS SHALL BULKHEAD IN PLACE AND DEPOSITING THE CONCRETE HAS SET SUFFICIENTLY TO PRE THE JOINT, THE BULKHEAD SHALL BE REM FINISHED OVER THE JOINT, THE SLOT SHA 1/2" RADIUS. SAWED JOINTS A SLOT APPROXIMATELY 3/16" WIDE AND SHALL BE CUT WITH A CONCRETE SAW AF 	ALK INTERSECTIONS SHALL F AASHTO M153 OR AASH ALL BE PLACED AT INTERV BE FORMED BY STAKING CONCRETE ON BOTH SIL SERVE THE WIDTH AND T MOVED. AFTER THE SIDEN LL BE FINISHED WITH A NOT LESS THAN 1" DEEF	A METAL DES. AFTER THE HE SHAPE OF WALK HAS BEEN TOOL HAVING A	D= SIDEWALK WIDTH SHALL BE 6' STA CURB, WHERE SPEED LIMIT IS 25
the obvietits and designs presented herein. a	 SIDEWALKS ALONG OTHER STREETS SHALL BE REQUIRED BY THE APPROVING AUTHORITY WE EXISTING OR PROPOSED SIDEWALK. HANDICAP RAMPS SHALL MEET FLORIDA ACCE 301.0, 301.1 AND 301.2. ALL SIDEWALKS ON R/W WITHIN 10' OF AN EXCEED 6" IN DIAMETER AT MATURITY SHALL CENTERED VERTICALLY AND SPACED 3' ON C TREES. 	EN NECESSARY TO CONTI SSIBILITIES STANDARDS, A EXISTING OR PROPOSED BE 5" THICK AND CONTA	INUE AN AND SECTIONS TREE THAT WILL AIN 2-#3 REBAR	SIDEV
vis downtent, together attiv	*NOTE: FOR COMPLETE SIDEWALK DETAILS, SEE F.D.O.T. DI INDEX 304, SHEETS 1 THROUGH 6 AND INDEX 3 MANATEE COUNTY TRANSPORTATION DEPARTMENT REV.BY DATE 6/12/07 DATE OF B.O.C.C. APPROVAL	SIDEWALKS	301.0	MANATEE COUNTY TRANSPORTATION DEPARTMENT REV.BY DATE 6/12/07 DATE OF B.O.C.C. APP
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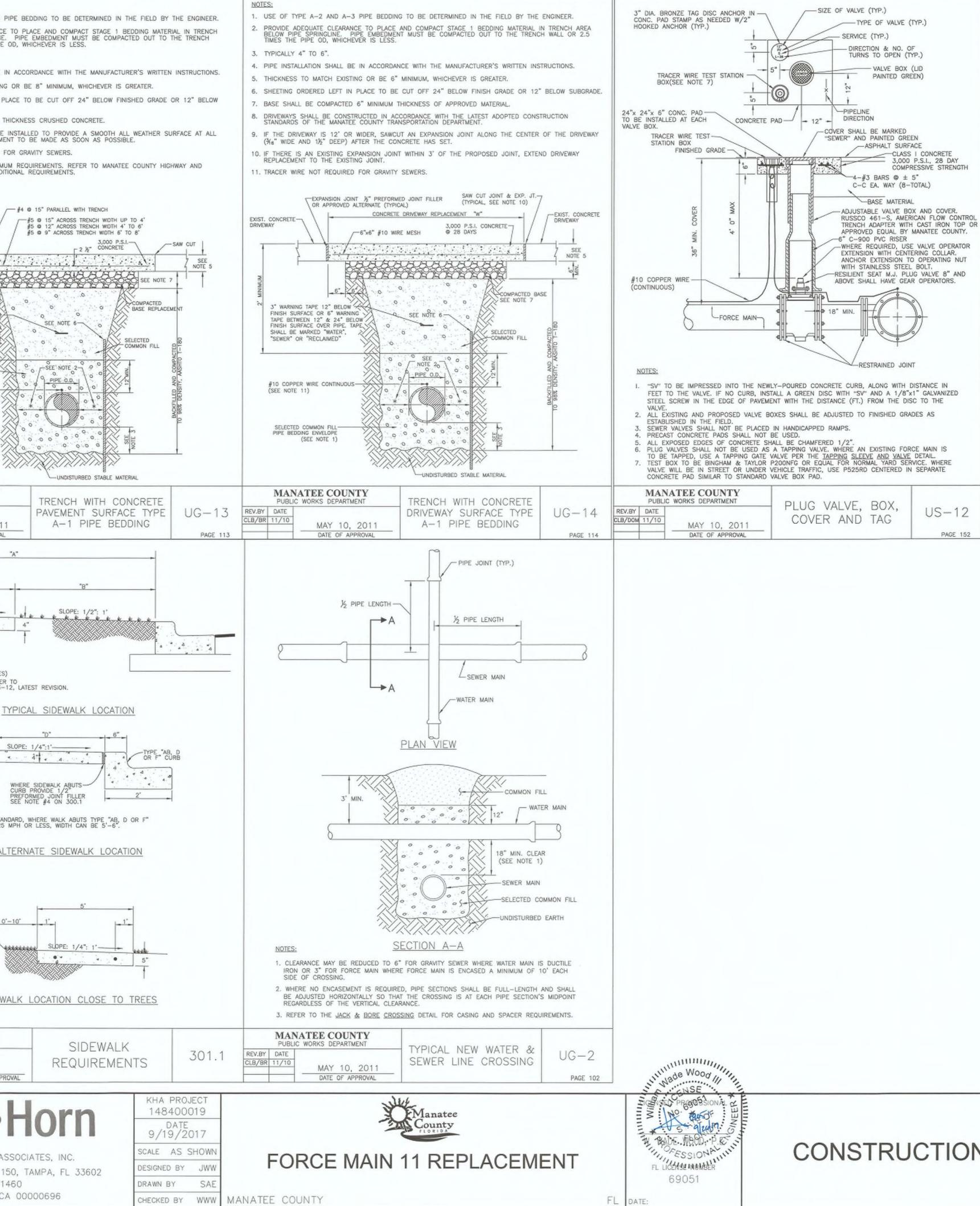
NG OR BE 8" MINIMUM, WHICHEVER IS GREATER.

- FOR GRAVITY SEWERS.
- UM REQUIREMENTS. REFER TO MANATEE COUNTY HIGHWAY AND TIONAL REQUIREMENTS.

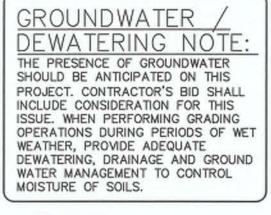


- 3. TYPICALLY 4" TO 6".

- (%6" WIDE AND 11/2" DEEP) AFTER THE CONCRETE HAS SET.



PLUG VALVE BOX	
COVER AND TAG	US-12
	PAGE 152
	- PLUG VALVE, BOX, COVER AND TAG





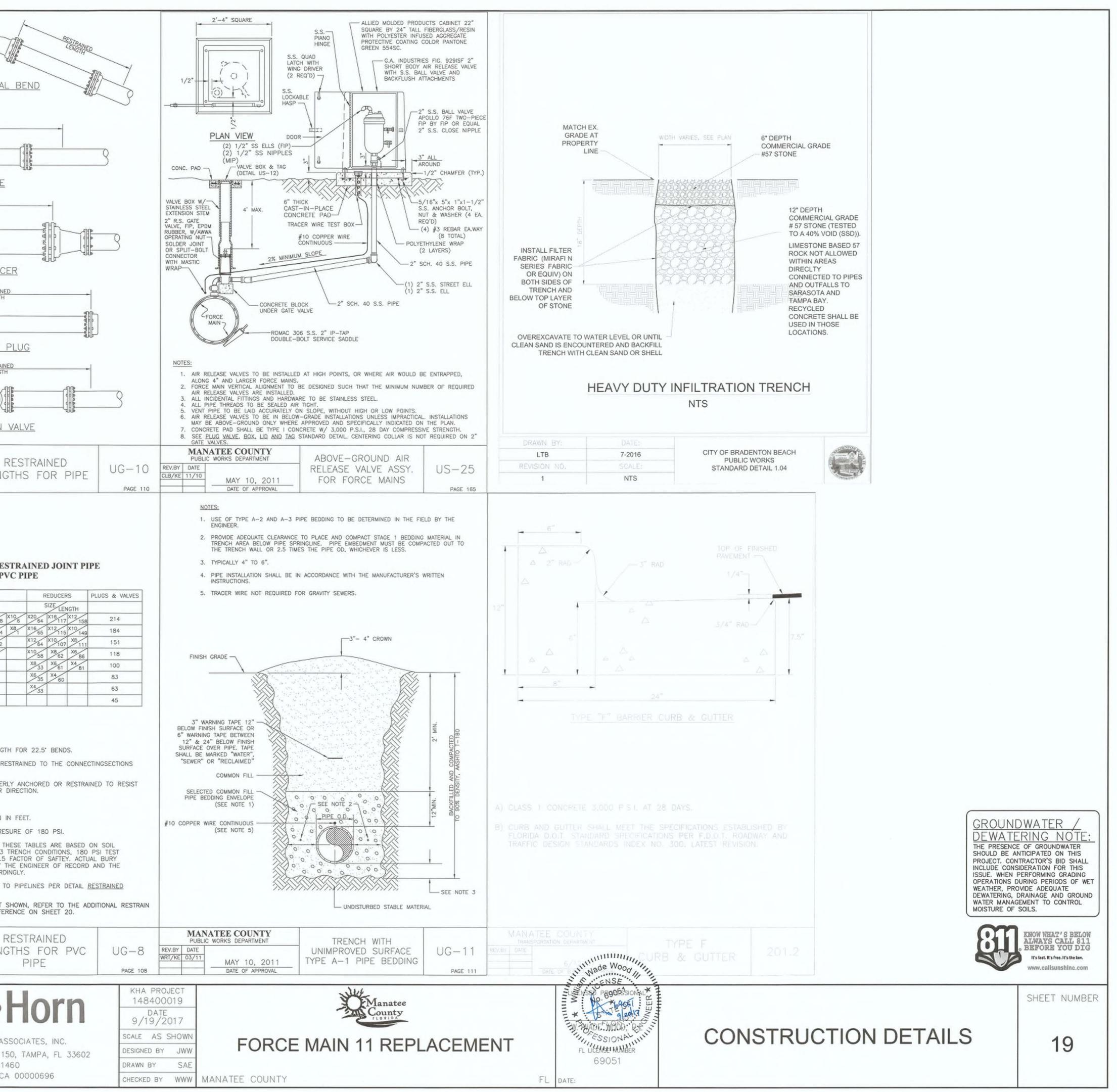
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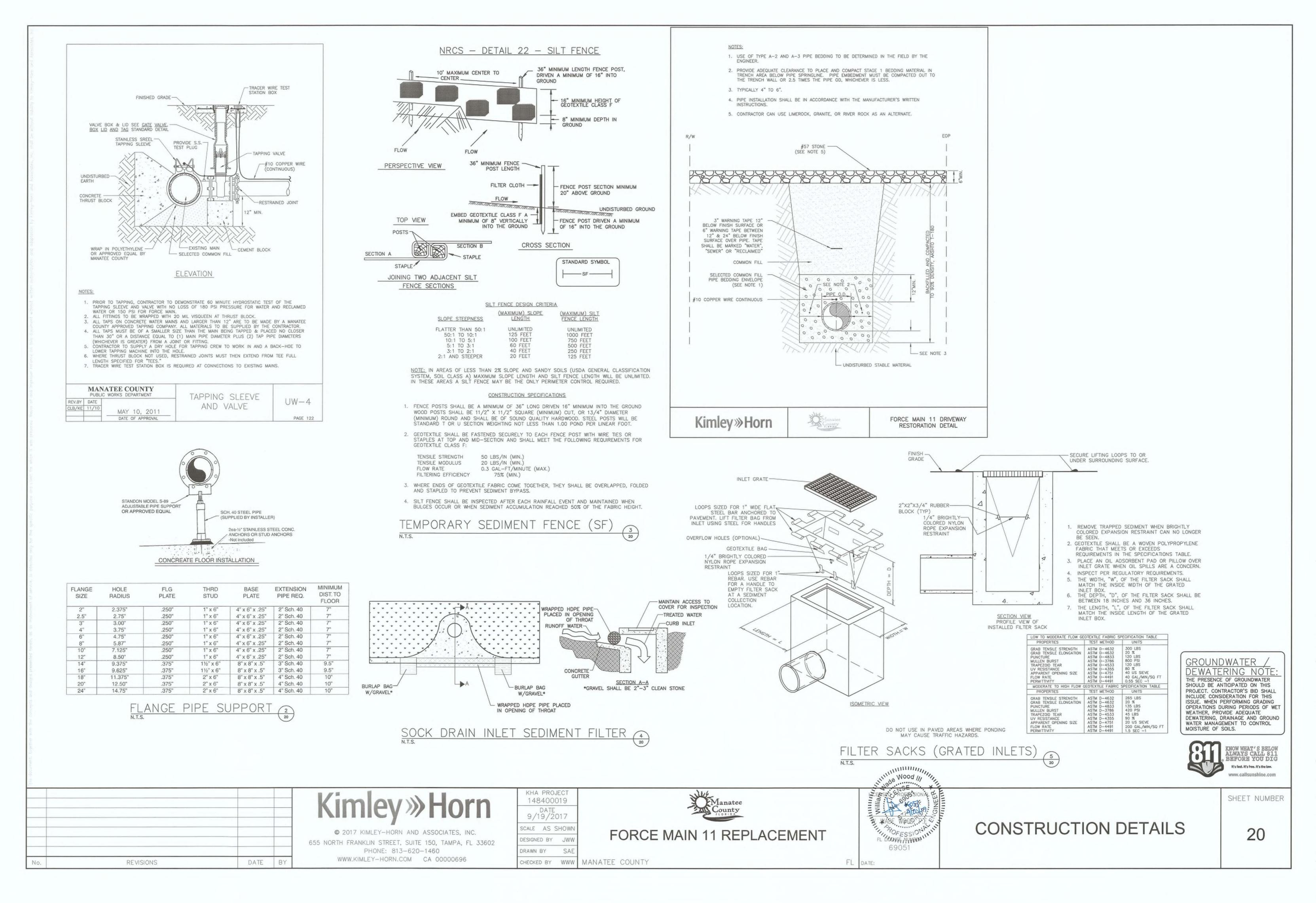
CONSTRUCTION DETAILS

18

SHEET NUMBER

	MIN. RADIUS "R" STATE COUNTY STANDARD		COLOR CODED COLOR CODED COLOR CODED PIPEALIGNMENT FIDOT CRITERIA	TEE RESTRAINED LENGTH
PURCE words brannuent DIRECTIONAL BORE UG-4 REWE WORD DAR of WAY 10, 2011 ANY 10, 2011 LEI BACK-UP RND OR M. GAND GADDWAY CROSSING UG-4 MAY 10, 2011 LEI BACK-UP RND OR M. GAND GADDWAY CROSSING UG-4 MAY 10, 2011 LEI BACK-UP RND OR M. GAND GADDWAY CROSSING UG-4 MAY 10, 2011 LEI BACK-UP RND OR M. GAND GADDWAY CROSSING UG-4 MAY 10, 2011 LEI BACK-UP RND OR M. GAND GADDWAY CROSSING UG-4 MAY 10, 2011 LEI BACK-UP RND OR M. GAND GADDWAY CROSSING SUBBLANNER MAY 10, 2011 LEI BACK-UP RND OR M. GAND GADDWAY CROSSING SUBBLANNER MAY 10, 2011 LEI BACK-UP RND OR M. GAND GADDWAY CROSSING SUBBLANNER MAY 10, 2011 LEI BAU TAUSE MAY 10, 2011 GAND RW SUBBLANNER MAY 10, 2011 LEI BACK-UP RND OR MARCHAR MAY 10, 2011 MAY 10, 2011 MAY 10, 2011 LEI MAY 10, 2011 LEI BAU TAUSE MAY 10, 2011 MAY 10, 2011 MAY 10, 2011 MAY 10, 2011 LEI	STEEL WIRE STEEL WIRE STEEL WIRE STEEL WIRE STEEL WIRE CONTINUOUS) STEEL WIRE CONTINUOUS) STEEL WIRE CONTINUOUS) STEEL WIRE CONTINUOUS)	DIAMETER "D" VARIES	Incelles FOR UK-11 FOR UK-11 2 4 55 3 6 4 55 6 12 12 55 10 20 24 22.0 12 32 24 23.0 18 35 34 44.0 18 35 34 23.0 18 35 34 33.0 18 35 34 33.0 20 24 55.0 33.0 218 35 34.0 33.0 20 24 35.0 27.5 20 36 44.0 55.0 20 36 44.0 55.0	REDUC RESTRAIN LENGTH
	PUBLIC WORKS DEPARTMENT		UG-4	PUBLIC WORKS DEPARTMENT
	MAY 10, 2011 DATE OF APPROVAL			MAT TU, ZUTT
NOTE: SCHEMATIC SHOWN FOR STANDARD MJ RITINGS AND GATE VALVES. HDPE PIPE TO MJ FITTING TRANSITION South address NOTE: 10 COPPER CLAD MACKUP RING South address South address South address South address South address All valves and Fittings shall be of PiPe. 310 COPPER CLAD MACKUP RING South address South address South address South address All valves and Fittings shall be of PiPe. 310 COPPER CLAD MACKUP RING South address South	BUTT FUSED JOINT	PVC OR DI PIPE	VEDGE ACTION VESTRAINT	PIPE 90° 45° 22.5° SIZE LENGTH 24 90 38 18 X24 169 132 X16 X12 20 78 32 16 X20 141 X16 X12 38 20 78 32 16 X20 141 X16 X12 38 16 66 27 13 X16 X12 X10 X8 24 16 66 27 13 X16 X10 X8 12 12 52 22 10 X12 80 X10 X8 X6 10 44 18 9 X10 X8 40 7 8 37 15 7 X8 X6 X4 1 6 29 12 6 X8 29 1 1
MANATEE COUNTY PUBLIC WORKS DEPARTMENT HDPE TO PVC OR UG-6 MANATEE COUNTY PUBLIC WORKS DEPARTMENT REV.BY DATE DI PIPE ADAPTER UG-6 REV.BY DATE LE CLB/BR 11/10 MAY 10, 2011 DI PIPE ADAPTER UG-6 REV.BY DATE LE DATE OF APPROVAL DATE OF APPROVAL DI PIPE ADAPTER DATE OF APPROVAL LE	HDPE PIPE TO PVC PIE 10 COPPER CLAD STEEL WIRE HDPE PIPE HDPE PIPE BUTT FUSED JOINT HDPE PIPE TO PVC PIE 1. ONE # 10 GAUGE EXTRA HIGH STRENGTH SECURED TO THE PIPE FOR PIPELINES T DIRECTIONAL DRILLING METHOD. IN NON- APPLICATIONS, A # 10 GAUGE SOLID INS	A FITTINGS AND GATE VALVES. D MJ FITTING TRANSITION ND OR RING MJ RETAINER GLAN SOLDER JU CONNECTO CONNECTO PVC OR D GASKET DIP MJ SOLID SLEEVE PE SPIGOT TO SPIGOT CO H COPPER CLAD STEEL TRACER WIRE SHAL HAT ARE INSTALLED BY TRENCHLESS HOP DIRECTIONAL BORE (TRENCHES AND BORE SULATED COPPER WIRE SHALL BE ATTACHED	DINT OR SPLIT BOLT R WITH MASTIC WRAP COPPER WIRE COPPER WIRE PIPE PIPE DINNECTION L BE PULLED AND NZONTAL & JACK)	 RESTRAIN 11.25' BENDS 50% OF LENG ALL VALVES AND FITTINGS SHALL BE R OF PIPE. ALL ISOLATIONVALVES MUST BE PROPEI A 180 PSI TEST PRESSURE IN EITHER PIPE SIZES ARE GIVEN IN INCHES. RESTRAINED PIPE LENGTHS ARE GIVEN LENGTHS SHOWN ARE FOR A TEST PRE THE RESTRAINED LENGTHS SHOWN IN T CLASSIFICATION SP WITH AWWA TYPE 3 PRESSURE, 3 FEET OF COVER AND 1.5 CONDITIONS MUST BE DETERMINED BY RESTRAINED LENGTHS MODIFIED ACCORD RESTRAINED LENGTHS TO BE APPLIED T
	TRACER WIRES SHALL HAVE A MINIMUM 3 MANATEE COUNTY PUBLIC WORKS DEPARTMENT REV.BY DATE CLB/BR 11/10 MAY 10, 2011	HDPE TO PVC OR	UG-6	PUBLIC WORKS DEPARTMENT
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© 2017 KIMLEY-HORN AND 655 NORTH FRANKLIN STREET, SUITE				© 2017 KIMLEY-HORN AND A 655 NORTH FRANKLIN STREET, SUITE 1 PHONE: 813-620-1





LANDSCAPE SPECIFICATIONS

1. SCOPE OF WORK

- 1.1. THE WORK CONSISTS OF: FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THESE PLANS.
- 1.2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER.
- WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS.
- 1.4. THE SCOPE OF WORK SHALL CONSIST OF:

2. PROTECTION OF EXISTING AND PROPOSED SITE ELEMENTS

- 2.1. ALL EXISTING SITE ITEMS, ALREADY COMPLETED OR ESTABLISHED AND DESIGNATED TO REMAIN SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM THE CONTRACTOR'S WORK SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.
- 2.2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL NECESSARY BMP DEVICES THROUGHOUT THE DURATION OF ALL CONSTRUCTION ACTIVITIES.
- 2.3. WHERE APPLICABLE, THE CONTRACTOR SHALL SUBMIT A DETAILED PROJECT SPECIFIC WORK ZONE TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE APPROPRIATE REGULATORY AGENCY STANDARDS UNLESS THE WORK REQUIRES NOTHING MORE THAN A DIRECT APPLICATION OF FDOT DESIGN STANDARDS, INDEX 600.
- 2.4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, PRIOR TO CONSTRUCTION ACTIVITIES. THE INFORMATION AND DATA SHOWN WITH RESPECT TO EXISTING UTILITIES IS APPROXIMATE. THE OWNER AND DESIGN PROFESSIONAL SHALL NOT BE RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF ANY SUCH INFORMATION OR DATA. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR; REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA; LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION; THE SAFETY AND PROTECTION THEREOF; REPAIRING ANY DAMAGE RESULTING FROM THE WORK. THE COST OF ALL WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT PRICE. THE CONTRACTOR SHALL NOTIFY ANY AFFECTED UTILITY COMPANIES OR AGENCIES IN WRITING AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING WHEN ANY CONFLICT BETWEEN UTILITIES AND THESE PLANS EXIST PRIOR TO PLANTING.
- 2.5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO PLANT MATERIAL EXISTING OR OTHERWISE. THIS SHALL INCLUDE COMPACTION AND SPILLING OF ANY DELETERIOUS MATERIALS WITHIN THE DRIP-LINE OF EXISTING TREES TO REMAIN. PLANT MATERIAL KILLED OR DAMAGED THAT IS MISSHAPEN AND/OR UNSIGHTLY SHALL BE REPLACED WITH LIKE SIZE AND KIND TO THE SATISFACTION OF THE OWNER OR REGULATORY AGENCY AT THE COST TO THE CONTRACTOR.

3. SUBMITTALS

3.1. MATERIAL SAMPLES LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL, ON SITE OR AS DETERMINED BY THE OWNER. UPON APPROVAL, DELIVERY OF MATERIALS MAY COMMENCE.

MATERIAL	SAMPLE SIZE
MULCH	ONE (1) GALLON PLASTIC BAG
SOIL MIXTURE	ONE (1) GALLON PLASTIC BAG
PLANTS	ONE (1) OF EACH VARIETY (OR TAGGED IN NURSERY)

3.2. CONTRACTOR TO SUBMIT TESTING RESULTS OF SOIL MIXTURE AS PER SECTION 6 BELOW.

4. PLANT MATERIALS

- 4.1. ALL PLANT MATERIAL SHALL CONFORM TO THE SPECIFICATIONS INDICATED ON THE DRAWINGS AND SHALL BE IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS, LATEST EDITION, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. ALL PLANTS SHALL BE FLORIDA GRADE NO. 1 OR BETTER AS DETERMINED BY THE FLORIDA DIVISION OF PLANT INDUSTRY. ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN PERMISSION FROM THE LANDSCAPE ARCHITECT AND OWNER.
- 4.2. ALL TREE SPECIES INSTALLED SHALL BE MATCHED IN SIZE AND SHAPE UNLESS NOTED OTHERWISE.
- 4.3. PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, UPON DELIVERY TO THE SITE, DURING PROGRESS OF THE WORK AND/OR AFTER COMPLETION. REJECTED PLANTS SHALL BE REMOVED AND REPLACED IMMEDIATELY.

5. DIGGING AND HANDLING

5.1. PROTECT ROOTS OR ROOT BALLS OF PLANTS AT ALL TIMES FROM SUN, DRYING WINDS, WATER AND FREEZING AS NECESSARY UNTIL PLANTING. NO PLANT MATERIAL SHALL BE HANDLED BY STEMS.

SOIL MIXTURE (PLANTING MEDIUM, PLANTING MIX, TOPSOIL MIX)

- 6.1. CONTRACTOR SHALL TEST EXISTING SOIL AND AMEND AS NECESSARY IN ACCORDANCE WITH THE GUIDELINES
- 6.2. SOIL MIXTURE (PLANTING MEDIUM FOR PLANT PITS) SHALL CONSIST OF TWO PARTS OF TOPSOIL AND ONE PART SAND, AS DESCRIBED BELOW, CONTRACTOR TO SUBMIT SAMPLES AND PH TESTING RESULTS OF SOIL MIXTURE FOR OWNER'S REPRESENTATIVE APPROVAL PRIOR TO PLANT INSTALLATION OPERATIONS COMMENCE.
- 6.3. TOPSOIL FOR USE IN PREPARING SOIL MIXTURE FOR BACKFILLING PLANT PITS SHALL BE FERTILE, FRIABLE, AND OF A LOAMY CHARACTER; REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH WEEDS AND OTHER LITTER; FREE OF ROOTS, STUMPS, STONES LARGER THAN 2" IN ANY DIRECTION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. IT SHALL CONTAIN THREE (3) TO FIVE (5) PERCENT DECOMPOSED ORGANIC MATTER AND HAVE A PH BETWEEN 5.5 AND 7.0.
- 6.4. SAND SHALL BE COARSE, CLEAN, WELL-DRAINING, NATIVE SAND.
- 6.5. TREES SHALL BE PLANTED IN THE EXISTING NATIVE SOIL ON SITE, UNLESS DETERMINED TO BE UNSUITABLE -AT WHICH POINT THE CONTRACTOR SHALL CONTACT OWNER'S REPRESENTATIVE TO DISCUSS ALTERNATE RECOMMENDATION PRIOR TO PLANTING.

7. WATER

- 7.1. CONTRACTOR SHALL PROVIDE WATER NECESSARY FOR PLANTING ESTABLISHMENT AND MAINTENANCE. WATER SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN ADEQUATE PLANT GROWTH AND SHALL NOT CONTAIN HARMFUL, NATURAL OR MAN-MADE ELEMENTS DETRIMENTAL TO PLANTS.
- 7.2. WATERING/IRRIGATION RESTRICTIONS MAY APPLY REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

8. FERTILIZER

- 8.1. CONTRACTOR SHALL PROVIDE FERTILIZER APPLICATION SCHEDULE TO OWNER, AS APPLICABLE TO SOIL TYPE, PLANT INSTALLATION TYPE, AND SITE'S PROPOSED USE. SUGGESTED FERTILIZER TYPES SHALL BE ORGANIC OR OTHERWISE NATURALLY-DERIVED.
- 8.2. FERTILIZER RESTRICTIONS MAY APPLY REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

9. MULCH

- 9.1. MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A MINIMUM DEPTH OF THREE (3) INCHES. CONTRACTOR SHALL CLEAR MULCH FROM WITHIN A SIX (6) INCH RADIUS AROUND TRUNK / STEM FLARE. MULCH SHALL BE "FLORIMULCH", EUCALYPTUS MULCH, OR SIMILAR SUSTAINABLY HARVESTED MULCH UNLESS SPECIFIED OTHERWISE.
- 9.2. PROVIDE A THREE (3) INCH MINIMUM LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH PLANTING BED AND TREE RING (SIX (6) FOOT DIAMETER MINIMUM).

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10. CONTAINER GROWN STOCK

- 10.1. CONTAINER GROWN PLANTS SHALL HAVE BEEN GROWN IN IT'S CONTAINER SUFFICIENTLY LONG ENOUGH FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER.
- 10.2. INSUFFICIENT OR POORLY STRUCTURED ROOT SYSTEMS ARE NOT ACCEPTABLE AND WILL BE REJECTED
- 10.3. ROOTS PLUS GROWER (RPG) PRODUCTS SHALL BE USED WHERE SPECIFIED.

11. MATERIALS LIST

11.1. ALL QUANTITIES ARE PROVIDED FOR CONVENIENCE ONLY. CONTRACTOR SHALL CONFIRM ALL QUANTITIES PER PLAN PRIOR TO BIDDING AND CONSTRUCTION.

12. FINE GRADING

- 12.1. CONTRACTOR SHALL BE RESPONSIBLE FOR FINE GRADING WHICH CONSISTS OF FINAL FINISHED GRADING (INCLUDING ADDITIONAL SOIL MIXTURE AS NEEDED) FOR LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS. FINISH GRADE SHALL ACCOUNT FOR THICKNESS OF SOD AND/OR MULCH DEPTH.
- 12.2. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED FOR POSITIVE DRAINAGE TO SURFACE/SUBSURFACE STORM DRAIN SYSTEMS. AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS. REFER TO CIVIL ENGINEER'S PLANS FOR FINAL GRADES, IF APPLICABLE.

13. PLANTING PROCEDURES

- 13.1. THE CONTRACTOR SHALL CLEAN WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER DAILY. ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE REMOVED FROM THE SURFACE OF ALL PLANT BEDS. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS BENEATH THE SOIL WHICH WILL IN ANY WAY ADVERSELY AFFECT THE PLANT GROWTH, HE SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
- 13.2. LOCATE, MAINTAIN AND PROTECT ALL UTILITIES ABOVE AND BELOW GROUND. CALL SUNSHINE STATE ONE CALL OF FLORIDA, INC. (811) TO LOCATE UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
- 13.3. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IN WRITING IMMEDIATELY IF CONFLICT(S) EXIST WITH PROPOSED TREE LOCATIONS AND EXISTING OVERHEAD POWER LINES IN ACCORDANCE WITH SETBACK REQUIREMENTS OF FPL'S "RIGHT TREE, RIGHT PLACE" PROGRAM. CONSULT THE UNIVERSITY OF FLORIDA'S "TREES AND POWER LINE" WEBSITE FOR TREE SIZE CATEGORIES.
- 13.4. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IN WRITING IMMEDIATELY IF CONFLICT(S) EXIST WITH PROPOSED TREE LOCATIONS AND EXISTING / PROPOSED LIGHT POLES. TREES INSTALLED IN CONFLICT WITH LIGHT POLES ARE SUBJECT TO RELOCATION AT THE EXPENSE OF THE CONTRACTOR.
- 13.5. CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED DELETERIOUS MATERIAL AND SUB-BASE FROM ALL LANDSCAPE PLANTING AREAS TO A MINIMUM DEPTH OF 36" OR TO NATIVE SOIL. CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE AS NEEDED WITH CLEAN SOIL MIXTURE.
- 13.6. FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS. COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND
- 13.7. EXCAVATE ALL PLANTING PITS IN ACCORDANCE WITH LANDSCAPE DETAILS PROVIDED. TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. IF POOR DRAINAGE EXISTS, CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IN WRITING. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER DRAINAGE. CONTRACTOR SHALL ENSURE ELIMINATION OF ALL AIR POCKETS AROUND ROOTS.
- 13.8. TREES AND SHRUBS SHALL BE SET STRAIGHT AT AN ELEVATION THAT, AFTER SETTLEMENT, THE PLANT CROWN WILL STAND ONE (1) TO TWO (2) INCHES ABOVE GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PIT. PLANTING SOIL MIXTURE SHALL BE BACK FILLED, THOROUGHLY TAMPED AROUND THE BALL, AND SETTLED BY WATER (AFTER TAMPING).
- 13.9. SHRUBS AND GROUND COVER PLANTS SHALL BE SPACED IN ACCORDANCE WITH THE DRAWINGS, LANDSCAPE DETAILS AND AS INDICATED ON THE PLANT LIST.
- 13.10. FAILURE TO FOLLOW THE ABOVE PLANTING PROCEDURE SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR.

14. LAWN SODDING

- 14.1. THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING NECESSARY TO PRODUCE A TURF GRASS LAWN ACCEPTABLE TO THE OWNER.
- 14.2. ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND DEBRIS TO A MINIMUM DEPTH OF THREE (3) INCHES. PROVIDE ONE (1) INCH OF TOPSOIL ACROSS ENTIRE LAWN BED AND MIX THROUGHLY INTO TOP FOUR (4) INCHES OF SOIL TO BRING THE GROUND TO AN EVEN GRADE. THE ENTIRE SURFACE SHALL BE ROLLED WITH A ROLLER WEIGHING NOT MORE THAN ONE-HUNDRED (100) POUNDS PER FOOT OF WIDTH. DURING THE ROLLING, ALL DEPRESSIONS CAUSED BY SETTLEMENT SHALL BE FILLED WITH ADDITIONAL TOPSOIL AND THE SURFACE SHALL BE REGRADED AND ROLLED UNTIL PRESENTING A SMOOTH AND EVEN FINISH TO THE REQUIRED GRADE.
- 14.3. HAND RAKE LAWN BED UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED. WET PREPARED AREA THOROUGHLY.
- 14.4. THE CONTRACTOR SHALL SOD ALL AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS, UNLESS SPECIFICALLY NOTED OTHERWISE
- 14.5. HAND THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE PLANT BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETAL TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND.
- 14.6. SOD PANELS SHALL BE LAID TIGHTLY TOGETHER SO AS TO MAKE A SOLID SODDED LAWN AREA. SOD SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAVED AND PLANTED AREAS.
- 14.7. IMMEDIATELY FOLLOWING SOD LAYING, THE LAWN AREAS SHALL BE ROLLED WITH A LAWN ROLLER AND THEN THOROUGHLY IRRIGATED.
- 14.8. IF, IN THE OPINION OF THE OWNER, TOP-DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND, AS APPROVED BY THE OWNER'S REPRESENTATIVE, SHALL BE UNIFORMLY SPREAD OVER THE ENTIRE SURFACE OF THE SOD AND THOROUGHLY WATERED IN. FERTILIZE INSTALLED SOD AS ALLOWED BY PROPERTY'S JURISDICTIONAL AUTHORITY.
- 14.9. DURING DELIVERY, PRIOR TO, AND DURING THE PLANTING OF THE LAWN AREAS, THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY EXPOSURE OF THE ROOTS TO THE SUN. ALL SOD SHALL BE STACKED SO AS NOT TO BE DAMAGED BY EXCESSIVE HEAT AND MOISTURE.
- 14.10. WITHIN THE CONTRACT LIMITS, THE CONTRACTOR SHALL PRODUCE AND MAINTAIN A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE-SODDING OF ALL ERODED, SUNKEN OR BARE SPOTS UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. REPAIRED SODDING SHALL BE ACCOMPLISHED AS IN THE ORIGINAL WORK (INCLUDING REGRADING IF NECESSARY).

15. CLEANUP

15.1. UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S REPRESENTATIVE.

PLANT MATERIAL MAINTENANCE

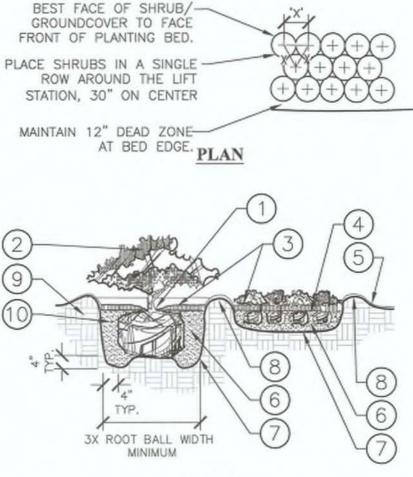
16.1. ALL PLANT MATERIAL SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS (SUCH AS RE-STAKING OR REPAIRING GUY SUPPORTS) AS NECESSARY TO INSURE HEALTHY AND VIGOROUS GROWING CONDITIONS BY THE CONTRACTOR UPON DELIVERING TO THE SITE AND UNTIL FINAL ACCEPTANCE OF WORK.

17. FINAL INSPECTION AND ACCEPTANCE OF WORK

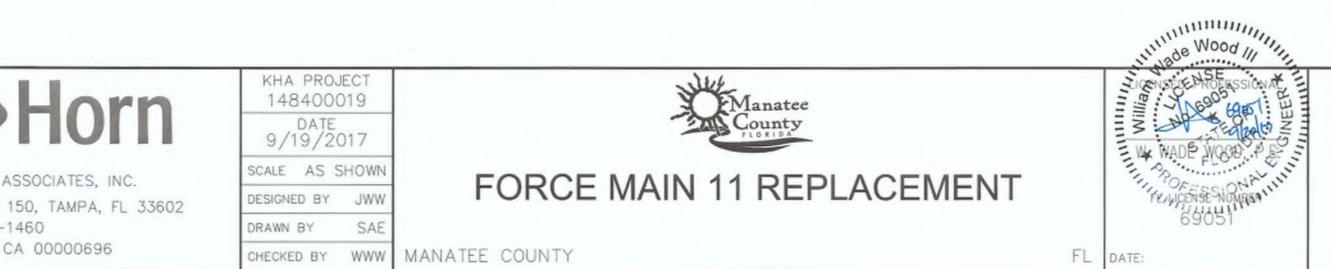
17.1. ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. PRIOR TO FINAL INSPECTION, TREAT ALL PLANTING BEDS WITH AN APPROVED PRE-EMERGENT HERBICIDE PER MANUFACTURER RECOMMENDATIONS. (AS ALLOWED BY JURISDICTIONAL AUTHORITY)

18. WARRANTY

- REPRESENTATIVE.



NOTES:



17.2. CONTRACTOR TO PROVIDE WATERING/IRRIGATION SCHEDULE FOR ALL PLANT MATERIAL TO OWNER. OBSERVE ALL APPLICABLE WATERING RESTRICTIONS AS SET FORTH BY THE PROPERTY'S JURISDICTIONAL AUTHORITY.

17.3. UPON COMPLETION OF ALL WORK, A FINAL INSPECTION SHALL BE PERFORMED BY THE OWNER AND/OR OWNER'S REPRESENTATIVE. ALL PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT SHALL BE INSPECTED FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. ANY ITEMS FOUND TO NOT BE IN COMPLIANCE SHALL BE CORRECTED AT THE COST OF THE CONTRACTOR.

18.1. THE LIFE AND SATISFACTORY CONDITION OF ALL PLANT MATERIAL INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION AND ACCEPTANCE OF THE WORK BY THE OWNER AND/OR OWNER'S

18.2. ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION THROUGHOUT THE WARRANTY PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED, PLANTED AND MULCHED AS SPECIFIED AT NO ADDITIONAL COST TO THE OWNER. ANY REPLACED PLANT MATERIAL SHALL BE SUBJECT TO A NEW ONE (1) YEAR WARRANTY.

18.3. IN THE EVENT THE OWNER DOES NOT CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE AND IRRIGATION MAINTENANCE, THE CONTRACTOR SHOULD VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE (1) YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER. CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING OF MAINTENANCE PROCEDURES OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTHY PLANT GROWTH.

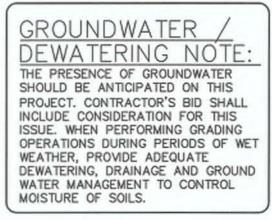
- (1) TOP OF SHRUB ROOTBALLS TO BE PLANTED 1" - 2" HIGH WITH SOIL MOUNDING UP TO THE TOP OF ROOTBALL.
- 2 PRUNE ALL SHRUBS TO ACHIEVE A UNIFORM
- MASS/HEIGHT.
- 3 3" MULCH LAYER AS SPECIFIED.
- (4) EXCAVATE ENTIRE BED SPECIFIED FOR GROUNDCOVER BED
- (5) FINISHED GRADE.
- (6) PREPARED PLANTING SOIL AS SPECIFIED. (SEE LANDSCAPE NOTES) NOTE: WHEN GROUND-COVERS AND SHRUBS USED IN MASSES, ENTIRE BED TO BE AMENDED WITH PLANTING SOIL
- MIX AS SPECIFIED. (7) SCARIFY OF PLANTING PIT
- SIDES AND BOTTOM.
- (8) 4" HIGH BERM FIRMLY COMPACTED.
- (9) UNDISTURBED NATIVE SOIL.
- 10) FERTILIZER TABLETS (MAX 3"

CONSTRUCTION DETAILS

SECTION

A. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION. B. WHEN SHRUBS ARE PRUNED IN MASSES, PRUNE ALL SHRUBS TO ACHIEVE UNIFORM MASS / HEIGHT. C. ALL SHRUBS AND GROUNDCOVERS SHALL BE PLUMB VERTICALLY, UNLESS OTHERWISE DIRECTED BY OWNERS REPRESENTATIVE. D. PETITE PINK OLEANDER SHALL HAVE A SIZE OF 7 GALLONS AND A MINIMUM HEIGHT OF 36".

PETITE PINK OLEANDER (NERIUM OLEANDER "PETITE") PLANTING





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