# **CONSTRUCTION PLANS FOR BASIN 16 GRAVITY SEWER REHABILITATION**

MANATEE COUNTY, FLORIDA

OCTOBER 2020

MANATEE COUNTY PROJECT #6089980



# PROJECT TEAM:

OWNER: MANATEE COUNTY 1022 26TH AVE. E. BRADENTON, FL 34208 CONTACT: MICHAEL STURM, P.E. 941-708-7450 EXT. 7332

KIMLEY-HORN AND ASSOCIATES, INC. 100 2ND AVENUE SOUTH, SUITE 105-N CONTACT: MICHAEL ANTHONY SEMAGO 727-498-3633

# UTILITY CONTACTS:

FLORIDA POWER & LIGHT JOEL BRAY 4215 UP THE GROVE LANE WEST PALM BEACH, FL 33407 386-586-6403

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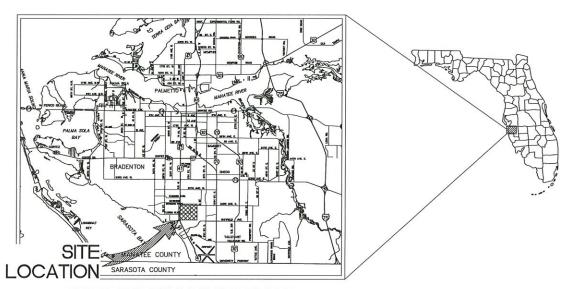
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 $\mathsf{PROJECT}_{\mathsf{N.T.S.}}^{\mathsf{VICINITY}}\,\mathsf{MAP}$ 

**BID SUBMITTAL** 

PREPARED BY

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Sheet Title COVER GENERAL NOTES

KEY SHEET

Sheet Number

THE SITE CONSTRUCTION STAKEOUT OF A FLORIDA REGISTERED SURVINO IN THE SITE CONSTRUCTION STAKEOUT AUTOCAD FILES AND SITE CONSTRUCTION

G-1

- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION, THE PROJECT MANAGER IS: MICHAEL STURM, P.E. AND CAN BE REACHED AT (941) 708-7450 X7332
- 2. SITE VISITS ARE MANDATORY FOR ALL BIDDERS. THESE SITE VISITS CAN BE ARRANGED THROUGH THE PROJECT
- 3. ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANATEE COUNTY UTILITY AND TRANSPORTATION STANDARDS AND/OR FOOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" UNLESS OTHERWISE INDICATED ON THE PLANS.
- THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR
- 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
- THE CONTRACTOR SHALL NOTIFY SUNSHINE 811 (1-800-432-4770) AT LEAST 2 FULL BUSINESS DAYS PRIOR TO CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITIES FOR THE POSSIBLE RELOCATION OR THE TEMPORARY MOVEMENT OF ANY EXISTING UTILITIES WITHIN THE RIGHTS—OF—WAY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING UTILITIES FROM DAMAGE, EXPLORATORY EXCAVATION MAY BE REQUIRED PRIOR TO CONNECTION TO EXISTING UTILITIES.
- NO WORK, EXCEPT FOR EMERGENCY TYPE, SHALL BE PERFORMED AFTER 7:00 PM AND BEFORE 7:00 AM. FOR ADDITIONAL PROJECT RESTRAINTS, REFER TO SECTION 01310 OF THE SPECIFICATIONS.
- 9. THE CONTRACTOR SHALL PROVIDE CERTIFIED RECORD DRAWINGS AS OUTLINED IN THE SPECIFICATIONS. RED-LINE DRAWINGS SHALL BE CURRENT WITH EACH PAY APPLICATION SUBMITTED AND WILL BE CHECKED AS PART OF THE PAY APPLICATION REVIEW PROCESS. PAYMENT WILL NOT BE MADE TO CONTRACTOR WITHOUT APPROVED RE-LINE DRAWINGS. THE MOST CURRENT SET OF RED-LINE DRAWINGS SHALL ALSO BE BROUGHT TO EACH MONTHLY PROGRESS MEETING.
- 10. THE CONTRACTOR SHALL INCLUDE IN HIS BID: BY-PASS PUMPING FACILITIES, PUMPS, FITTINGS, LABOR, ETC. AS NECESSARY, BASED ON METHOD AND SEQUENCE OF CONSTRUCTION TO COMPLETE ALL WORK WHILE MAINTAINING SEWER SERVICE OPERATIONS AT ALL TIMES.
- 11. THE CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER WITH A DETAILED CONSTRUCTION PHASING PLAN BASED ON THE CONNECTION SEQUENCING BELOW, FOR APPROVAL PRIOR TO BEGINNING CONSTRUCTION. EXISTING FORCE MAIN SHALL REMAIN IN SERVICE UNTIL ALL CONNECTIONS TO THE PROPOSED FORCE MAIN ARE CONSTRUCTED.
- ALL PROPOSED WORK SHALL BE COORDINATED WITH MANATEE COUNTY UTILITIES DEPARTMENT AT LEAST TWO WEEKS IN ADVANCE OF PROPOSED CONSTRUCTION.
- 13. THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS TO THE ENGINEER FOR REVIEW OF ALL PIPE CONNECTIONS, TRANSITIONS, AND SPECIAL APPURTENANCES PRIOR TO FABRICATION OR DELIVERY TO THE JOB SITE.
- 14. UNLESS OTHERWISE INDICATED OR APPROVED, ALL BELOW GROUND DUCTILE IRON PIPE SHALL HAVE PUSH— MECHANICAL JOINTS, AND ALL ABOVE GROUND DUCTILE IRON PIPE SHALL HAVE FLANGED JOINTS. ALL JOINT BE FULLY RESTRAINED PER THE DETAILS IN THESE PLANS.
- VERTICAL DISTANCE OF 18" BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWERE PIPE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER OR FORCE MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE PIPE FORCE MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE PIPE FORCE MAIN MAY BE PLACED IN A WATERTIGHT CASING PIPE, CONSISTENT WITH F.A.C. RULE 62—555.31
- 16. ALL BELOW-GRADE FITTINGS 4—INCHES AND GREATER IN DIAMETER SHALL BE MECHANICAL JOINT DUCTILE IRON WITH PROTECTO 401 LINING FOR THIER INTERIOR SURFACES AND COAL TAR ENAMEL COATING ON EXTERIOR SURFACES, AS NOTED IN SECTION 20515 OF SPECIFICATIONS.
- 17. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SECURE PROPERTY FOR STAGING MATERIALS AND EQUIPMENT
- 18. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ACQUIRE, OR ENTER INTO AGREEMENTS, FOR LANDS FOR LAY DOWN AREAS AND STAGING. THE COUNTY WILL COORDINATE AND ADVISE, TO HELP IDENTIFY POSSIBLE PARCELS. IT IS FINALLY THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE NEEDED AREAS, AND THE COUNTY TAKE NO RESPONSIBILITY FOR DELAYS IN THIS REGARD.
- 19. COORDINATION AND PUBLIC INFORMATION FOR AND WITH AREA RESIDENTS ARE OF THE UTMOST IMPORTANCE. CONTRACTOR WILL INSURE ADHERENCE TO THE COUNTY'S NOISE ORDINANCE, HAZARD AND SAFETY, AND NUISANCE ABATEMENT DIRECTIONS, PLANS, OBJECTIONS AND ORDINANCES. THE ENGINEER WILL HAVE THE FINAL DISCRETION IN THIS REGARD, AS REPRESENTED ONSITE BY THE COUNTY INSPECTOR AND ENGINEER'S STAFF.

### SAFETY

- 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE FLORIDA TRENCH SAFETY ACT, 90-96, LAWS OF FLORIDA EFFECTIVE OCTOBER 1, 1990 AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 29 CFR 1926.650, SUBPART P, AS AMENDED, THE CONTRACTOR SHALL INCLUDE IN THE TOTAL BID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS.
- 18. THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.
- 19. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
- 20. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEMATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.

- 21. WHEN A BENTONITE SPILL OR FRACK-OUT OCCURS OR THERE IS A LOSS OF RETURN INDICATING EXCESSIVE SEEPAGE OR LOSS OF ORILLING FLUID, ORILLING MUST BE STOPPED UNTIL THE LOCATION OF THE SPILL IS IDENTIFIED, UNDER NO CIRCUMSTANCES WILL ORILLING CONTINUE WHEN A SPILL IS APPARENT.
- 22. ONCE LOCATED, THE BENTONITE SPILL MUST BE ISOLATED AND SEEPAGE INTO ANY NEARBY WATER BODIES WILL BE BLOCKED DEPENDING ON THE DEGREE OF THE SPILL, THE ISOLATED BENTONITE MUST BE REMOVED MANUALLY OR MECHANICALLY AND DISPOSED OF BY APPROPRIATE MEANS OR REUSED.
- 23. 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.
- 24. 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.
- 25. 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 CONSTRUCTI PROGRESS, AND WHICH MUST BE APPROVED BY THE ENGINEER BEFORE INSTALLATION. THIS WILL BE MAINTAINED TO PREVENT DEGRADATION OF THE WATERS OF THE COUNTY AND STATE.
- 26, SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OR PREVENT THE TRANSPORT OF SEDIMENT ONTO ADJACENT PROPERTIES, OR INTO EXISTING BODIES OF WATER, MUST BE INSTALLED, CONSTRUCTED, OR IN THE CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTINGBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS. SUCH SYSTEMS SHALL BE FULLY OPERATIVE BEFORE ANY OTHER DISTINGBANCE OF THE SITE BEGINS. EARTHEN STRUCTURES INCLUDING BUT NOT LIMITED TO BERMS, EARTH FILTERS, DAMS OR DIKES SHALL BE STABILIZED AND PROTECTED FROM DRAINAGE DAMAGE OR EROSION WITHIN ONE (1) WEEK OF INSTALLATION.
- 27. 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.
- 28. SOIL DISPLACED BY CONSTRUCTION WILL BE REMOVED. EROSION CONTROL SHALL BE IMPLEMENTED IN AREAS WHICH

DATE

REVISIONS

- ARE CONSIDERED ENVIRONMENTALLY SENSITIVE. EROSION CONTROL SYSTEMS SHALL BE REQUIRED FOR ALL WORK WITHIN JURISDICTIONAL AREAS. THESE SYSTEMS MAY INCLUDE STAKED HAY BALES, SILT SCREENS, FILTER FABRIC, AND TURBUTY SCREENS.
- 29. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED
- 30. 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 MOINITY OF OPEN WATER AND/OR WETLANDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL REGULATIONS AND/OR PERMITS FOR THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES RESULTING FROM HIS WOLATION OF ANY REGULATIONS OR PERMIT COMBITIONS.
- 31. CONTRACTOR SHALL PROVIDE PROTECTIVE MATTING, FUEL CONTAINMENT AND ALL OTHER MATERIALS, EQUIPMENT AND LABOR TO PROTECT THE STAGING AREA DURING CONSTRUCTION.
- 32. 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.

- 33. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
- 35. THE CONTRACTOR, PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHTS—OF—WAY USE PERMIT AND A TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION "MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES". A TRAFFIC CONTROL PLAN SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.
- 36. 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 FLO.O.T. STANDARD.
- 37. 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.

#### UTILITIES

- 40. 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 ASSOLUTELY 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 FEFFECT HIS WORK. ALL EXISTING UTILITIES TO BE EXTENDED, CROSSED OR CONNECTION POINTS SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND ELEVATION. ANY DISCREPANCIES OR CONFLICTS FOUND SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION
- 41. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, MAIL BOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR FACILITY IN THE CONSTRUCTION OF ALT. 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.
- 42. THE CONTRACTOR SHALL USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED OR OFFERED BY FLORIC POWER AND LIGHT TO PREVENT UNDERMINING OF POWER POLES DURING CONSTRUCTION. IF HOLDING OF POWER IS RECOMMENDED OR REQUIRED BY THE UTILITY, THE CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE UTILITY AND BEAR ALL RELATED COSTS.
- 43. 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 MANATER 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.
- 44. FOR WORK BEING DONE ON EXISTING SANITARY SEWER LINES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE FLOW OF ALL SEWAGE DURING CONSTRUCTION, WHICH MAY REQUIRE BY-PASS PUMPING AND/OR PUMPER TRUCKS. THE CONTRACTOR SHALL SUBMIT A DETAILED BY-PASS PUMPING PLAN PER SECTION 02720.
- 45. ALL MAINS TO BE ARANDONED IN PLACE SHALL BE GROUTED PER THE SPECIFICATIONS.
- 46. 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 (HORIZOTAL 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 ATTIAN DESIGN MINIMUM SEPARATION FOR UTILITY SERVICES CONFLICTING WITH THE CONSTRUCTION OF THE PROPOSED FORCE MAIN. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE THE CONSTRUCTION OF THE PROPOSED FORCE MAIN. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE

### RESTORATION

- 47. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
- 49. ALL DISTURBED LANDSCAPING SHALL BE RESTORED TO PRECONSTRUCTION CONDITIONS, CONTRACTOR SHALL COORDINATE DETAILS WITH PROPERTY OWNER,
- 50. ALL CONCRETE THRUST BLOCKS INSTALLED FOR TESTING PURPOSES AND NOT REQUIRED FOR THE OPERATION OF THE PIPELINE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR, PRIOR TO FINAL ACCEPTANCE, AT NO ADDITIONAL COST TO THE OWNER.
- 51. ASPHALT DRIVES THAT ARE CUT SHALL BE RESTORED PER SECTION 02513.
- 52. CONCRETE DRIVEWAYS OR SIDEWALKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO THE CURRENT EDITIONS OF THE F.O.O.T. SPECIFICATIONS FOR ROAD AND BRIDGED ESIGN, SECTION 522, AND SECTION 310 OF THE F.D.O.T. DESIGN SANDARDS AND PER MANATEE COUNTY PUBLIC WORKS STANDARDS.
- 53. WHENEVER A PERMANENT ROADWAY SURFACE IS NOT REPLACED IMMEDIATELY AFTER BACKFILLING AND COMPACTION OF THE NEMY. WINTALLED PIPE LINE IN AREAS WHERE TRAFFIC MUST PASS, THE CONTRACTOR SHALL INSTALL A TEMPORARY SURFACE. CONSISTING OF NINE INCHES OF COMPACTED LIME ROCK BASE AND A COAT OF ASPHALT EMULSION. PERMANENT ROADWAY REPAIR SHALL BE PERFORMED A MAXIMUM OF TWENTY—ONE CALENDAR DAYS AFTER THE INITIAL OPEN CUTTING.
- 54. 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,
- 55. 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.
- 56. 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 WITH A 10 FT MINIMUM FOR CURBS.

57. 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.
- 58. 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.
- 59. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
- 60, INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.
- 62. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY
- 63. 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.
- 64. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATER COUNTY STANDARDS. 65. 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.
- 66. 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.
- 68. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES AND PUMP STATIONS ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS,
- 70. ALL TEST POINT PIPING SHALL BE CUT LOOSE FROM THE CORPORATION STOP AND COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR PRIOR TO FINAL ACCEPTANCE. A CORPORATION STOP PLUG SHALL BE INSTALLED AND THE CORPORATION STOP SHALL REMAIN IN PLACE.
- 71. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.
- 72. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION FROM THE MANATEE COUNTY UTILITIES DEPARTMENT (MCUD) OFFICE OF INDUSTRIAL COMPLIANCE PRIOR TO DEWATERING. COMPLETION OF A CONSTRUCTION DEWATERING AUTHORIZATION TO DISCHARGE APPLICATION IS REQUIRED, FILL OUT FORM AS COMPLETELY AS POSSIBLE AS MISSING INFORMATION DELAYS THE APPROVAL PROCESS.
- 73. THE MCUD OFFICE OF INDUSTRIAL COMPLIANCE WILL DETERMINE WHETHER A LETTER OF APPROVAL, A DISCHARGE AUTHORIZATION, OR A DISCHARGE PERMIT IS REQUIRED.
- 74. FOR SITES SUSPECTED OF CONTAMINATED GROUNDWATER MANATEE COUNTY WILL REQUIRE AN APPLICANT TO DEMONSTRATE THAT THE DISCHARGE MEETS THE MANATEE COUNTY SEWER USE ORDINANCE.
- 75. 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

#### FDOT NOTES

ALL WORK PERFORMED WITHIN THE FDOT R/W SHALL CONFORM TO:

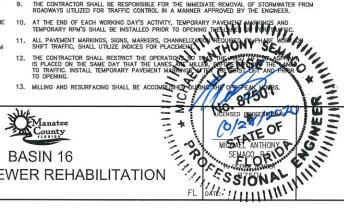
- FDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION (2016) (A.K.A. STANDARD SPECS).
- FDOT DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND OPERATIONS ON THE STATE HIGHWAY SYSTEM, 2016, (A.K.A. STANDARD INDEX). COMPLIANCE WITH ALL APPLICABLE INDICES IS REQUIRED. FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY PLANS PREPARATION MANUAL, VOLUME 1, CHAPTERS 2 AND
- FLORIDA DEFARTMENT OF TRANSPORTATION FLEXIBLE PAVEMENT DESIGN MANUAL FOR NEW CONSTRUCTION AND PAVEMENT REHABILITATION, JANUARY 2015.

  ALL TRAFFIC STRIPES AND MARKINGS ARE TO BE LEAD FREE, NON-SOLVENT BASED THERMOPLASTIC. THE PERMITTEE SHALL FURNISH THE DEPARTMENT WITH THE MANUFACTURER'S CERTIFICATION THAT THE THERMOPLASTIC IS LEAD FREE.
- LANE CLOSURE MAY NEED TO BE ALTERED DEPENDING ON THE AREA THE WORK IS TAKING PLACE.

- 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 UILIZE INDEX 505. FOR ALL TWO—LANE WORK, TWO—WAY, WORK NEAR INTERSECTION UTILIZE INDEX 605. FOR ALL MULTILANE WORK OUTSIDE SHOULDER UTILIZE INDEX NO. 612. FOR ALL MULTILANE WORK ON SHOULDER UTILIZE INDEX NO. 612. FOR ALL MULTILANE WORK WITHIN TRAVEL MAY MEDIAN OR OUTSIDE LANE UTILIZE INDEX NO. 613. FOR ALL MULTILANE WORK WITHIN TRAVEL MAY MEDIAN OR OUTSIDE LANE UTILIZE INDEX NO. 616. FOR PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALK, UTILIZE TOPI INDEX NO. 660.
- 2. CONTRACTOR TO COORDINATE WITH FDOT FOR ALL WORK DONE ON A STATE FACILITY.
- TO AVOID DISRUPTION DUE TO INCLEMENT WEATHER, THE CONTRACTOR SHOULD PERFORM ANY MILLING AND PAYING OPERATIONS DURING THE SAME WORK PERIOD.
- ALL EXISTING PAVEMENT MARKINGS OUTSIDE THE CONSTRUCTION LIMITS THAT HAVE BEEN ALTERED BECAUSE OF CONSTRUCTION OPERATIONS SHALL BE REPLACED UPON THE COMPLETION OF THE PROJECT AT THE CONTRACTORS EXPENSE.
- LANE CLOSURES SHALL OCCUR BETWEEN 9:00 P.M. AND 5:00 A.M., UNLESS LANE CLOSURE CALCULATIONS ARE PROVIDED AND APPROVED OR APPROVAL IS GRANTED BY THE DISTRICT PERMIT PRICIPETER
- THE CONTRACTOR SHALL SCHEDULE WORK OPERATIONS SO THAT ALL LANES CAN BE RE-OPENED TO TRAFFIC WITHIN A PERIOD OF 24 HOURS IN CASE OF AN EMERGENCY.
- PEDESTRIANS, BICYCLES, AND WHEELCHAIRS: AT THE END OF EACH WORKDAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP-OF ADJACENT TO A SIDEWAKE SHALL BE BACKFILED 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.
- 8. ONE PORTABLE VARIABLE MESSAGE SIGN SHALL BE USED IN ADVANCE OF EACH LANE CLOSURE. THE FOLLOWING ARE SUGGESTED MESSAGES TO USE IN THE APPROPRIATE SITUATIONS:

"LANE" "LANE"
"CLOSED" "CLOSED"

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF STORMWATER FROM ROADWAYS UTILIZED FOR TRAFFIC CONTROL IN A MANNER APPROVED BY THE ENGINEER.



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 COOSTRUCTION. COORDINATE ALL SIGNAL RETIME EFFORTS WITH AARON BURKETT AT 941–708–7509 OR AARON.BURKETTEMYMANATEE.ORG

CONTRACTOR TO MAINTAIN VEHICLE DETECTION IN OPERATION FOR LANES THAT WILL REMAIN OPEN. CONTRACTOR TO COORDINATE ALL VEHICLE DETECTION ISSUES WITH AARON BURKETT OF MANATEE COUNTY AT 941-708-7509 OR AARON.BURKETTEM/MAMATEELOS.

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

16. MAINTENANCE OF TRAFFIC AND ANY SIGNAL RETIMING WILL BE THE RESPONSIBILITY OF THE

ANY SIGNAL RETIMING REQUIRED FOR THE INTERSECTIONS IMPACTED BY THE PROJECT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. SIGNAL TIMING MODIFICATIONS TO BE SUBMITTED TO MANATEE COUNTY TRAFFIC DESIGN, ATTENTION MR. MICKINDA GOPALAKRISHNA FOR REVIEW AND APPROVAL AT LEAST 15 WORKING DAYS BEFORE PROPOSED CHANGES. THIS DOES NOT GOVERN EMERGENCY SITUATIONS, PENDING THE APPROVAL OF THE ENGINEER.

18. A DETAILED MAINTENANCE OF TRAFFIC PLANS ARE TO BE SUBMITTED TO MANATEE COUNTY AND THE ROBINGER, BY THE CONTRACTOR, FOR REVIEW AND APPROVAL A MINIMUM OF 21 WORKING DAYS PRIOR TO PROPOSED IMPLEMENTATION.

WORK SCHEDULE COORDINATION

ALL WORK SCHEDULE SHALL BE COORDINATED WITH MANATEE COUNTY.

#### ABBREVIATIONS

- RESTRAINED JOINT
- RIGHT-OF-WAY HORIZONTAL DIRECTIONAL DRILL REINFORCED CONCRETE PIPE AIR RELEASE VALVE

- STORM DRAIN
   EXISTING
   BURIED TELEPHONE
   SANITARY SEWER
   FORCE MAIN
   WATER MAIN
   RECLAIM WATER MAIN
   ELLIPTICAL CONCRETE PIPE

### KIMLEY HORN LEGEND

EX. GAS

EX. RECLAIM WATER EX. FORCEMAIN

EX. WATERMAIN

EX. SANITARY SEWER

EX. STORM

EX. BURIED TELEPHONE/FIBER

EX. FIBER OPTICS EX. BURIED ELECTRIC EX. TV

EX. TRAFFIC FULL ROADWAY RESTORATION

CONCRETE RESTORATION REMOVE AND REPLACE CURB

> GROUNDWATER DEWATERING NOTE:
> THE PRESENCE OF GROUNDWATER
> SHOULD BE ANTICIPATED ON THIS SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUN WATER THE PROVIDE AND GROUN WATER THE PROVID



WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.

SHEET NUMBER

**GENERAL NOTES** 

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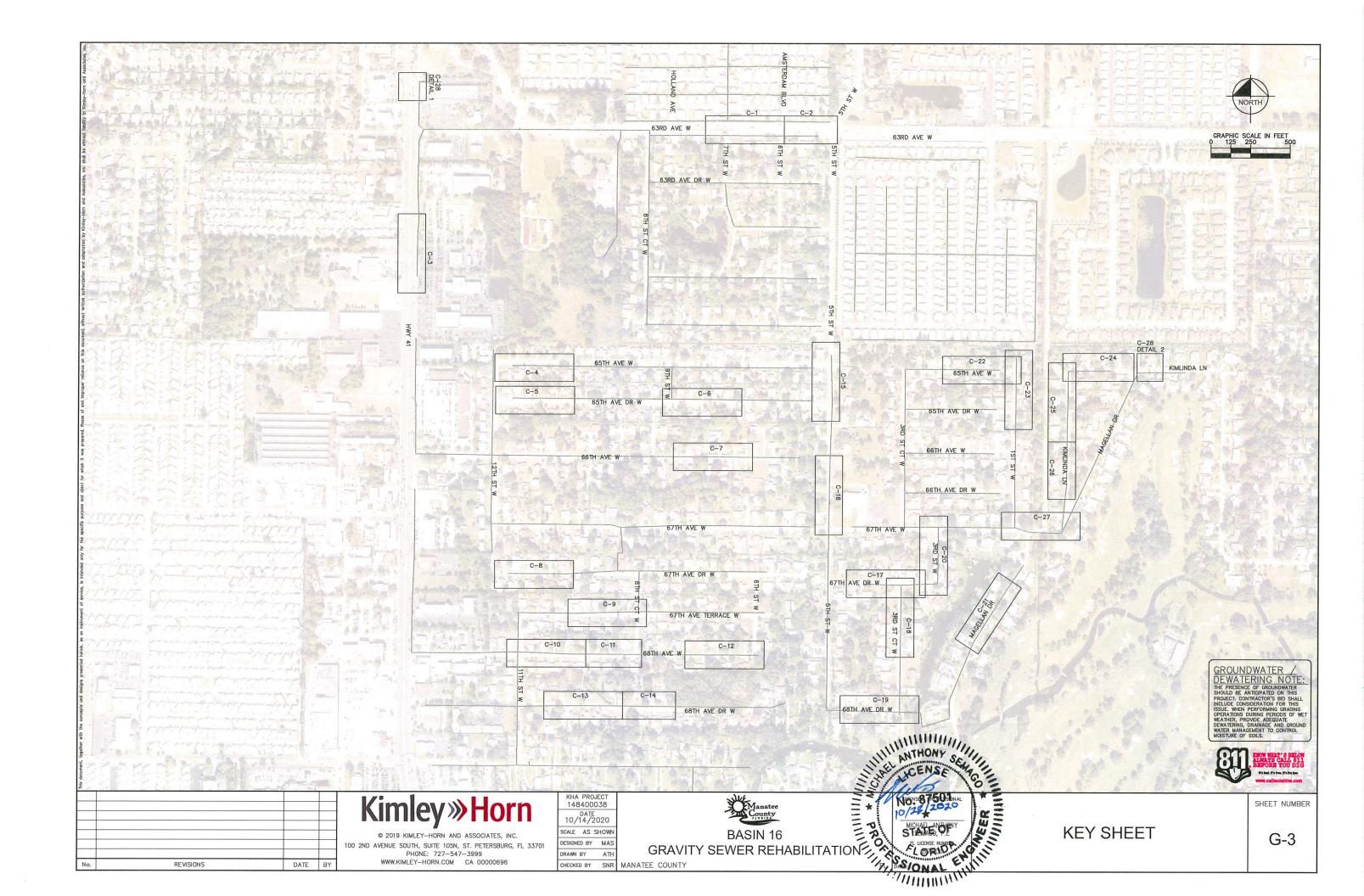
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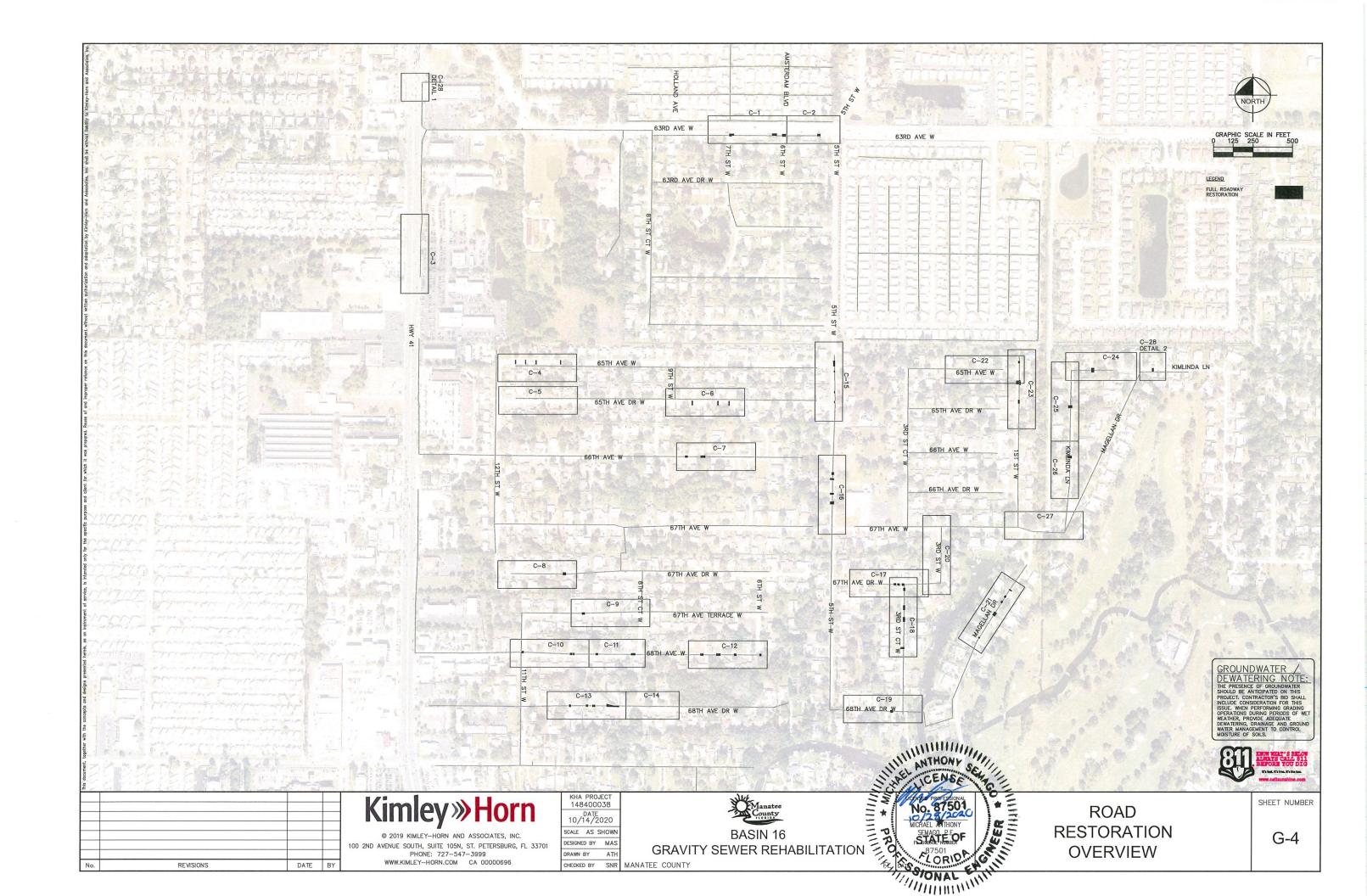
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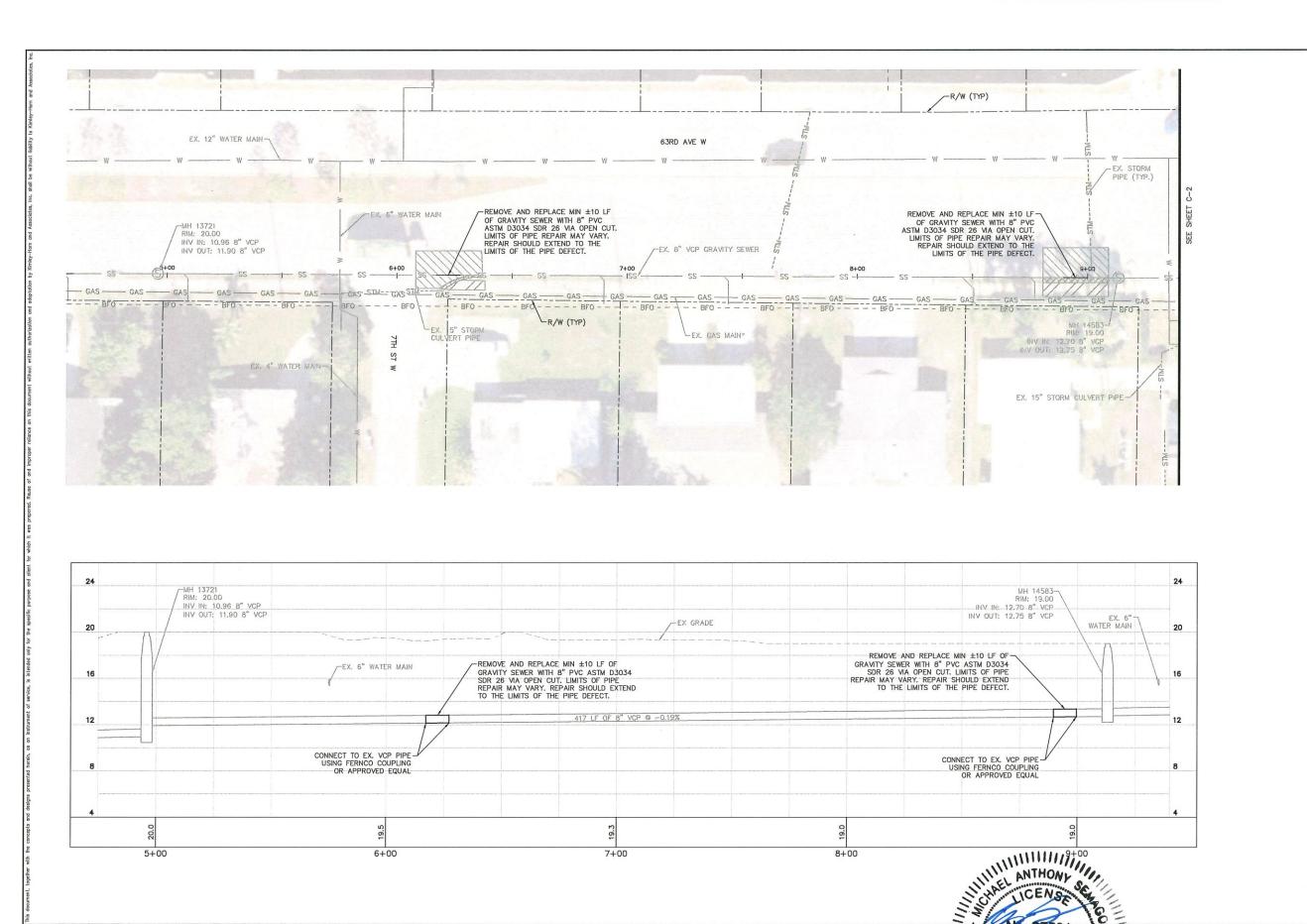
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**GRAVITY SEWER REHABILITATION** 

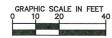
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LEGEND

FULL ROADWAY RESTORATION\*

CONCRETE RESTORATION\*

REMOVE AND REPLACE CURB\*

\* FINAL RESTORATION LIMITS SHALL BE DETERMINED BY THE COUNTY INSPECTOR FOLLOWING REHABILITATION WORK.

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- 2. ANY WORK PERFORMED ON SEWER SYSTEM SHALL BE WITHIN THE RIGHT-OF-WAY. COUNTY APPROVAL IS REQUIRED PRIOR TO COMMENCING WORK IN PRIVATE PROPERTY.
- 3. REPLACEMENT OF SEWER LATERAL SHALL INCLUDE ALL WORK FROM THE POINT OF CONNECTION AT THE GRAVITY MAIN LINE TO THE CLEANOUT.
- 4. CONTRACTOR SHALL MAINTAIN GRAVITY SEWER FLOWS AT ALL TIMES DURING CONSTRUCTION
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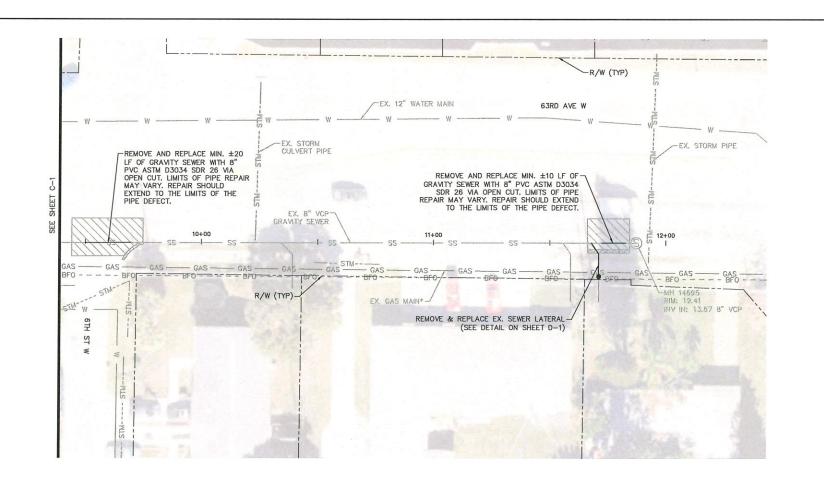
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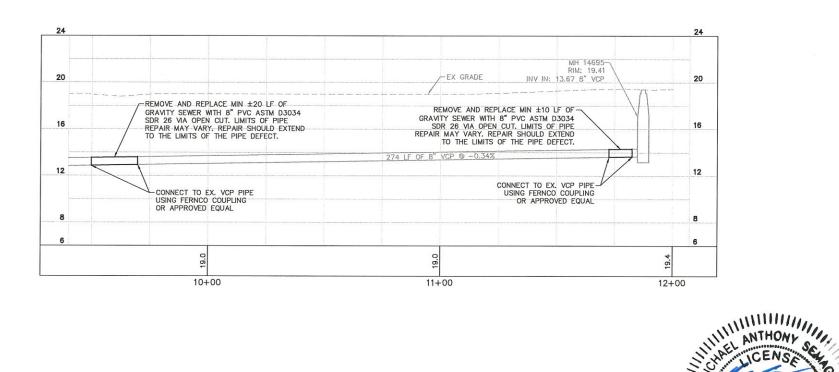
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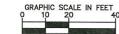
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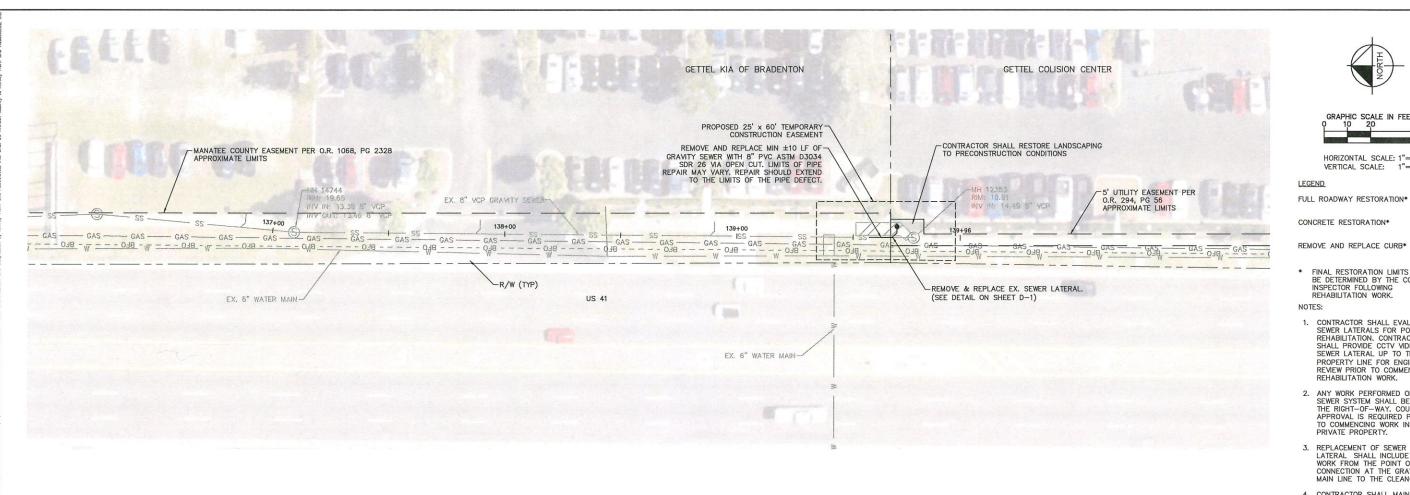


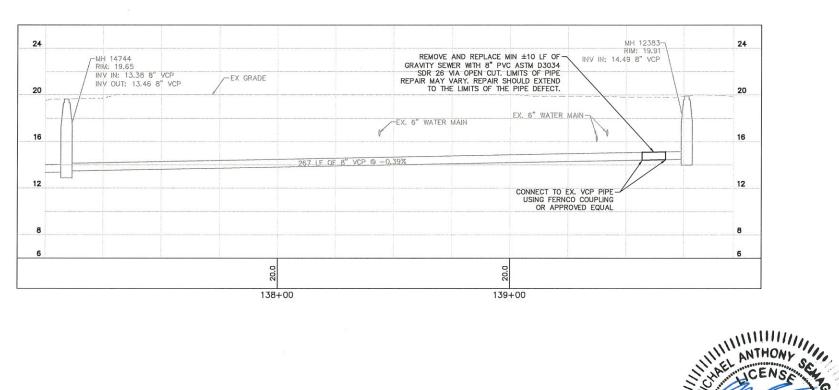
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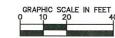
PLAN AND PROFILE

SHEET NUMBER









FULL ROADWAY RESTORATION\*

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KHA PROJECT 148400038 DATE 10/14/2020 SCALE AS SHOWN ESIGNED BY MAS DRAWN BY ATH



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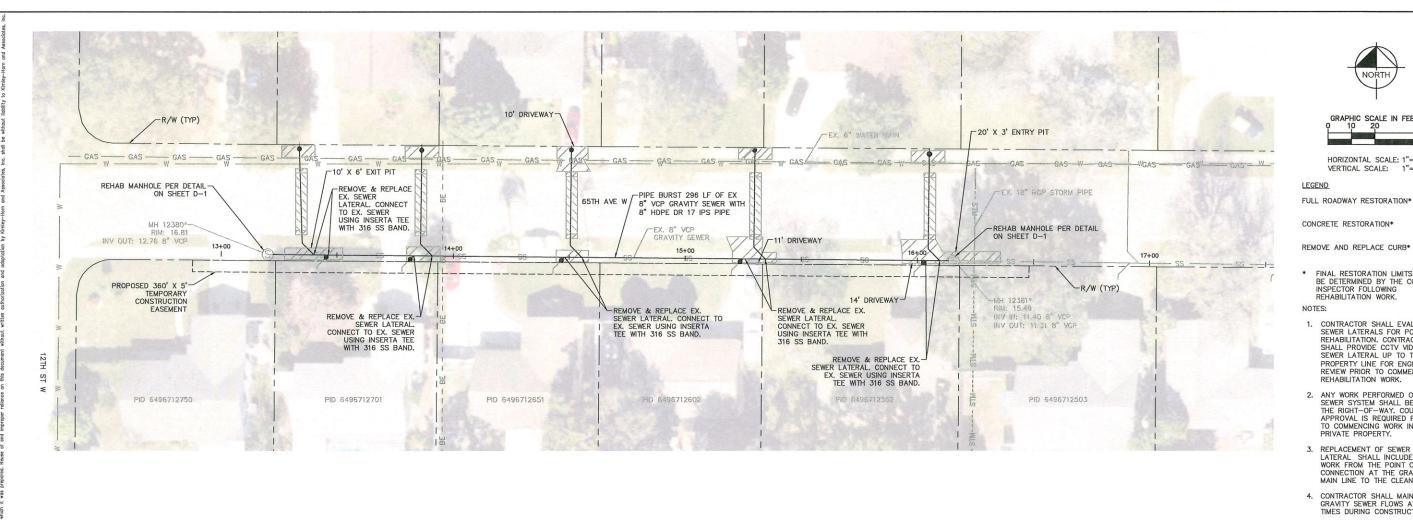
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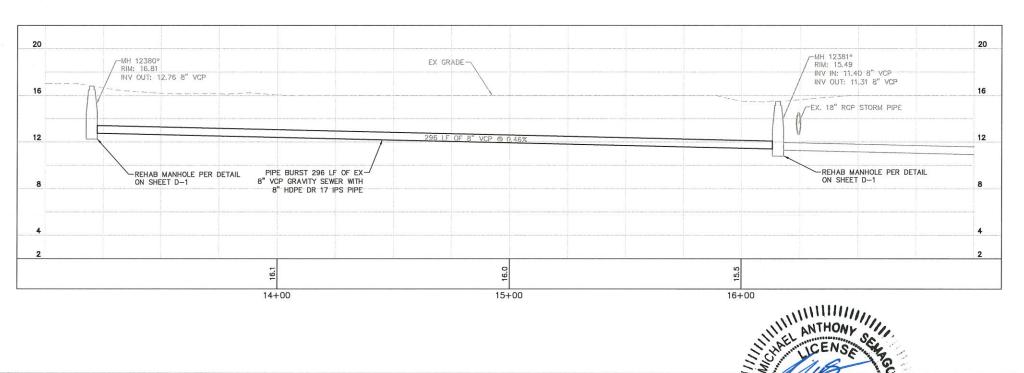
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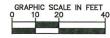
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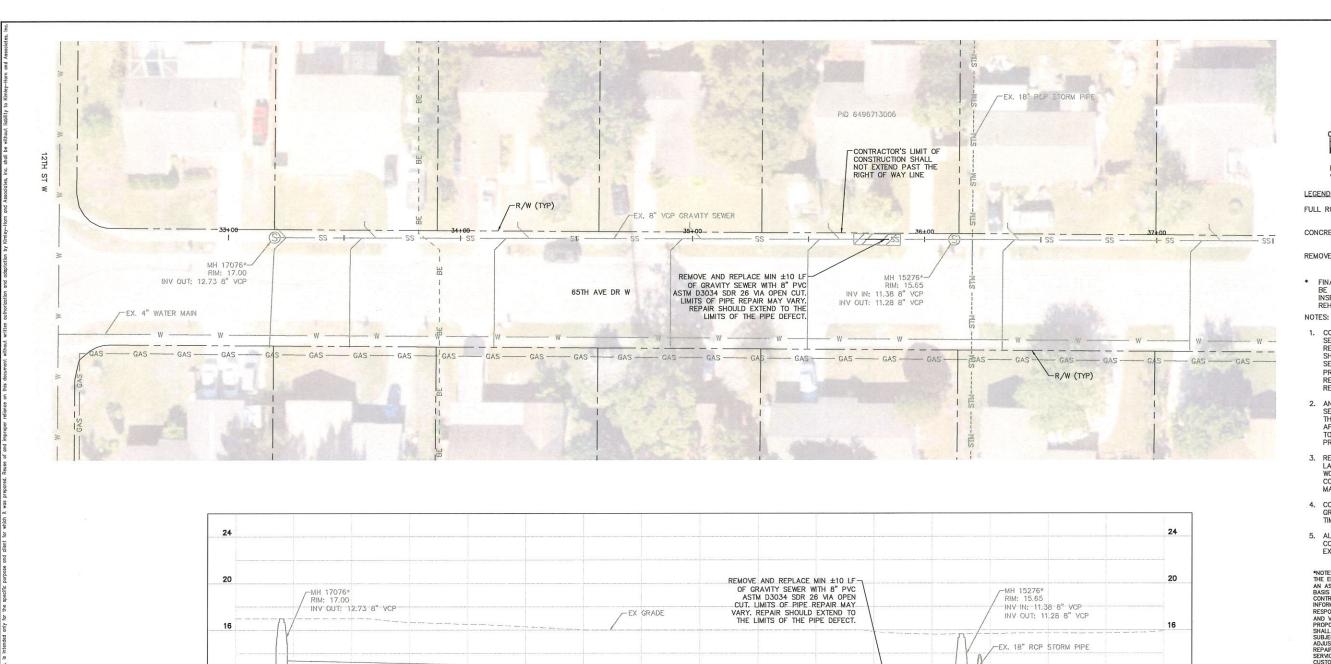
GRAVITY SEWER REHABILITATION

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PLAN AND PROFILE

SHEET NUMBER







FULL ROADWAY RESTORATION\*

CONCRETE RESTORATION\*

REMOVE AND REPLACE CURB\*

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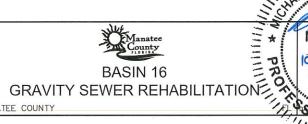
KHA PROJECT 148400038 DATE 10/14/2020 SCALE AS SHOWN DESIGNED BY MAS DRAWN BY ATH

34+00

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35+00



CHECKED BY SNR MANATEE COUNTY

CONNECT TO EX. VCP PIPE-USING FERNCO COUPLING OR APPROVED EQUAL

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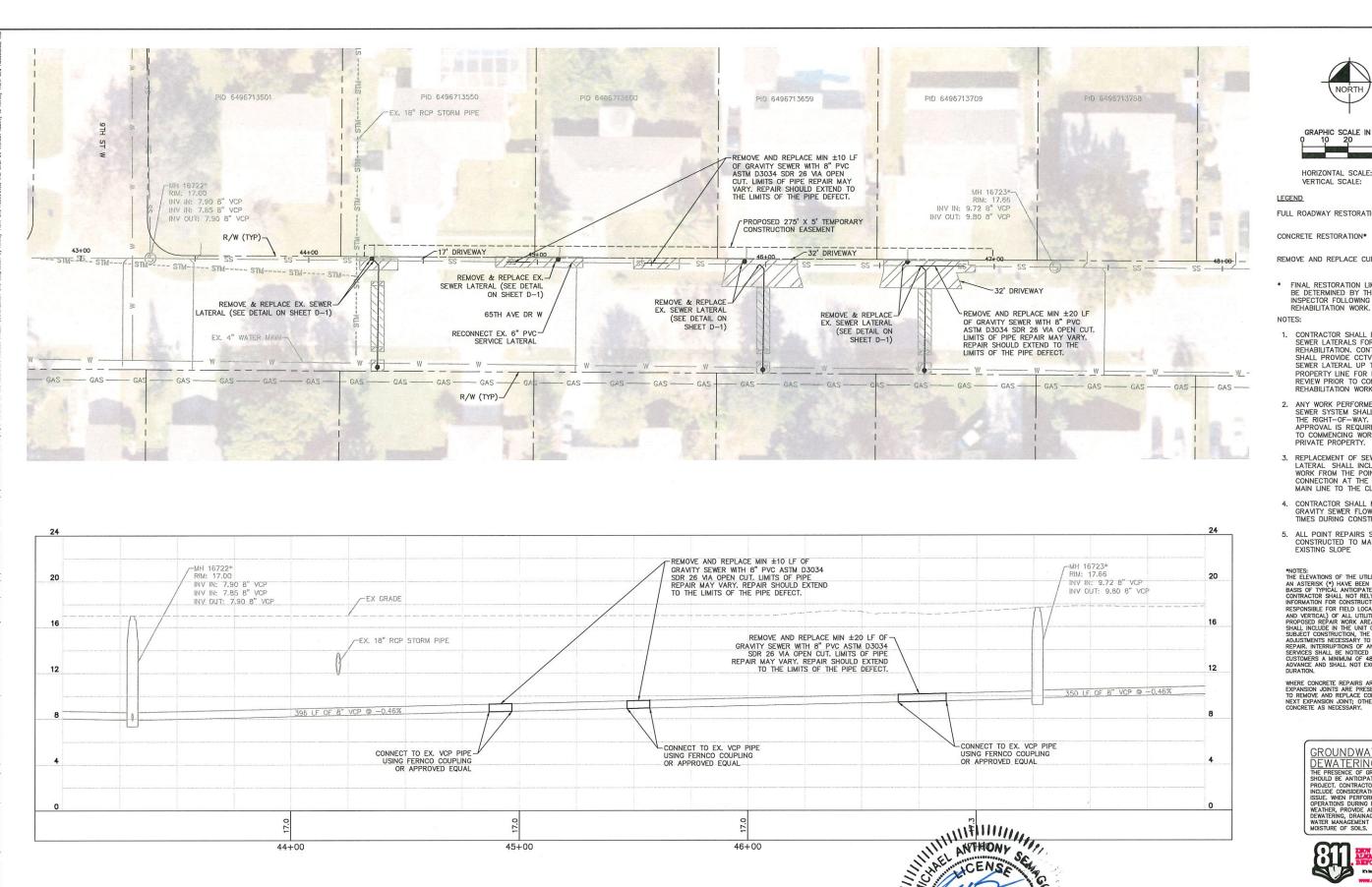
FL LICENSE NUMBER
87500

PLAN AND PROFILE

12

365 LF OF 8" VCP @ 0.46%

SHEET NUMBER







FULL ROADWAY RESTORATION\*

CONCRETE RESTORATION\*

REMOVE AND REPLACE CURB\*

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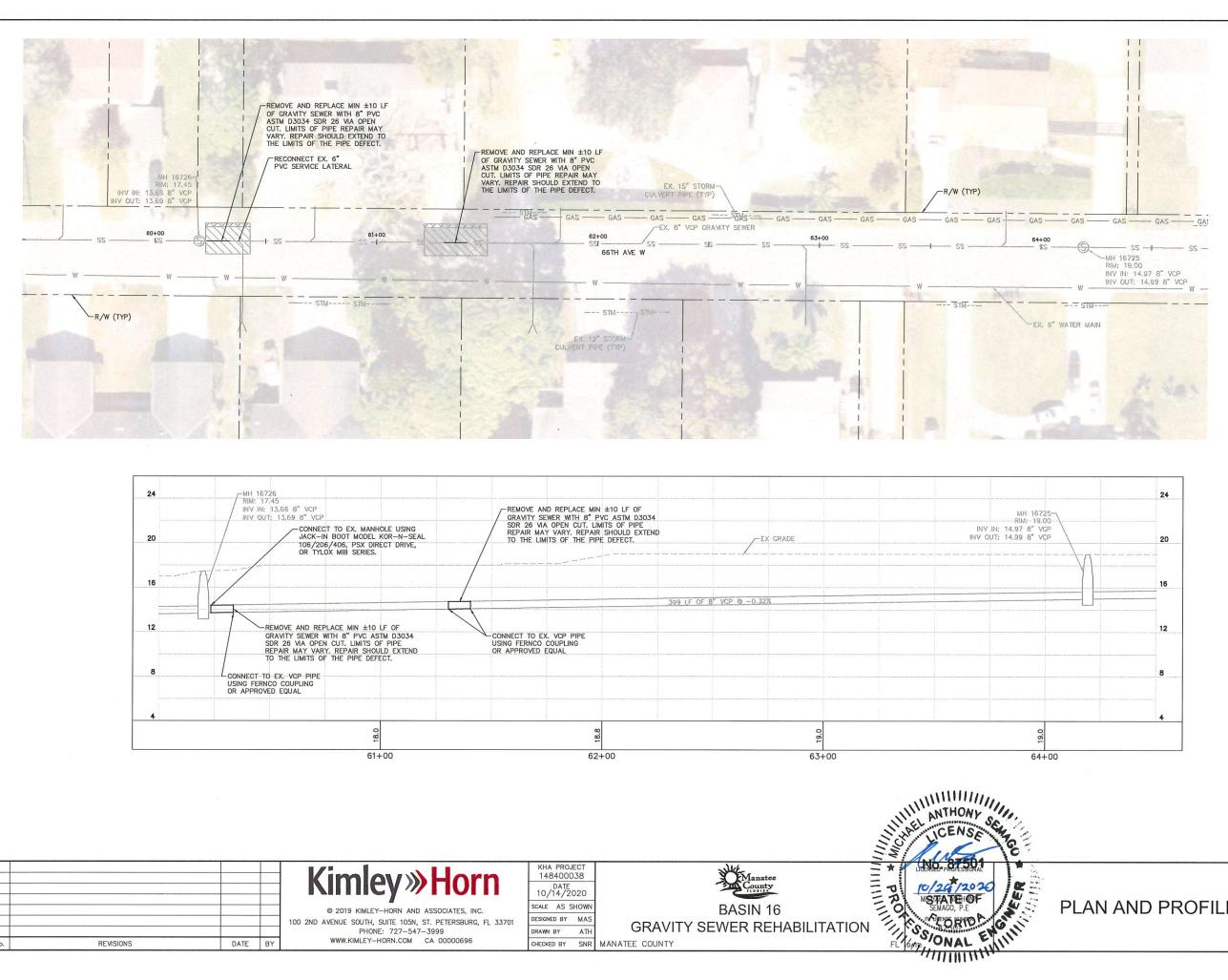
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HORIZONTAL SCALE: 1"=20

LEGEND

FULL ROADWAY RESTORATION\*

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REVISIONS DATE BY

**Kimley** » Horn

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148400038 DATE 10/14/2020 SCALE AS SHOWN DESIGNED BY MAS DRAWN BY ATH

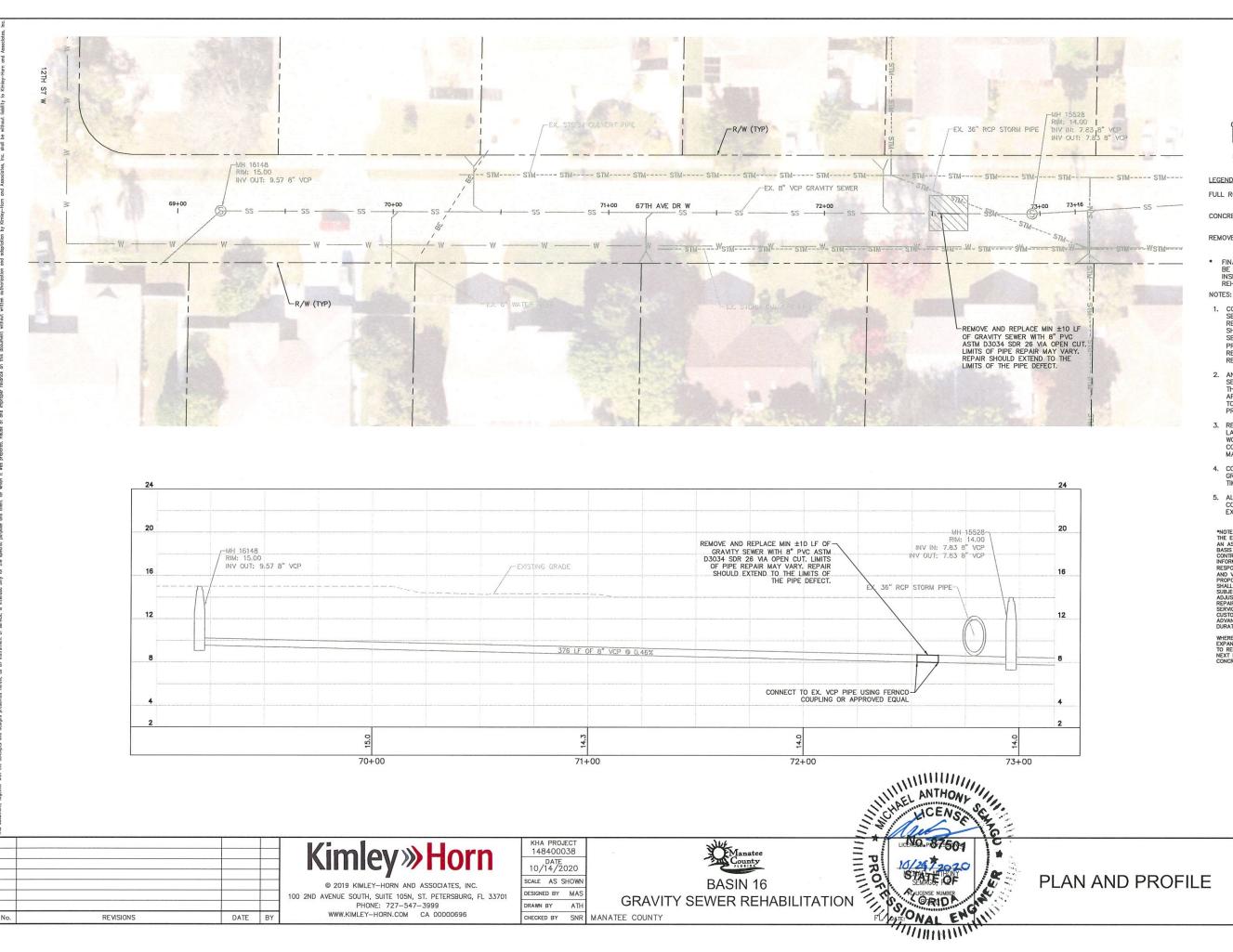
CHECKED BY SNR MANATEE COUNTY



**GRAVITY SEWER REHABILITATION** 

PLAN AND PROFILE

SHEET NUMBER



DRAWN BY ATH

CHECKED BY SNR MANATEE COUNTY

PHONE: 727-547-3999

WWW.KIMLEY-HORN.COM CA 00000696

DATE BY

REVISIONS

**GRAVITY SEWER REHABILITATION** 



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

FULL ROADWAY RESTORATION\*

CONCRETE RESTORATION\*

REMOVE AND REPLACE CURB\*

FINAL RESTORATION LIMITS SHALL BE DETERMINED BY THE COUNTY INSPECTOR FOLLOWING REHABILITATION WORK.

- CONTRACTOR SHALL EVALUATE
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- CONTRACTOR SHALL MAINTAIN GRAVITY SEWER FLOWS AT ALL TIMES DURING CONSTRUCTION
- 5. ALL POINT REPAIRS SHALL BE CONSTRUCTED TO MATCH EXISTING SLOPE

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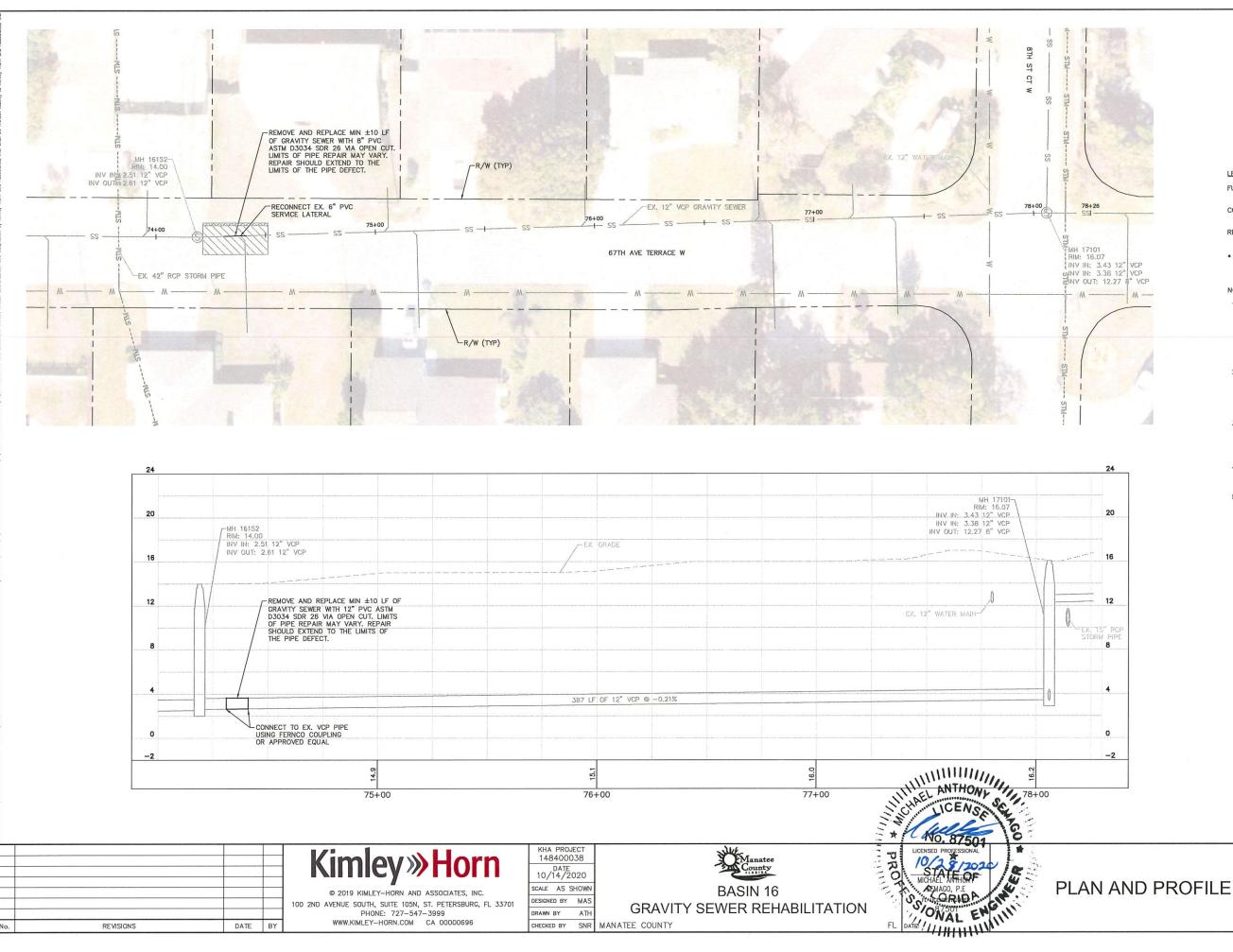
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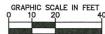
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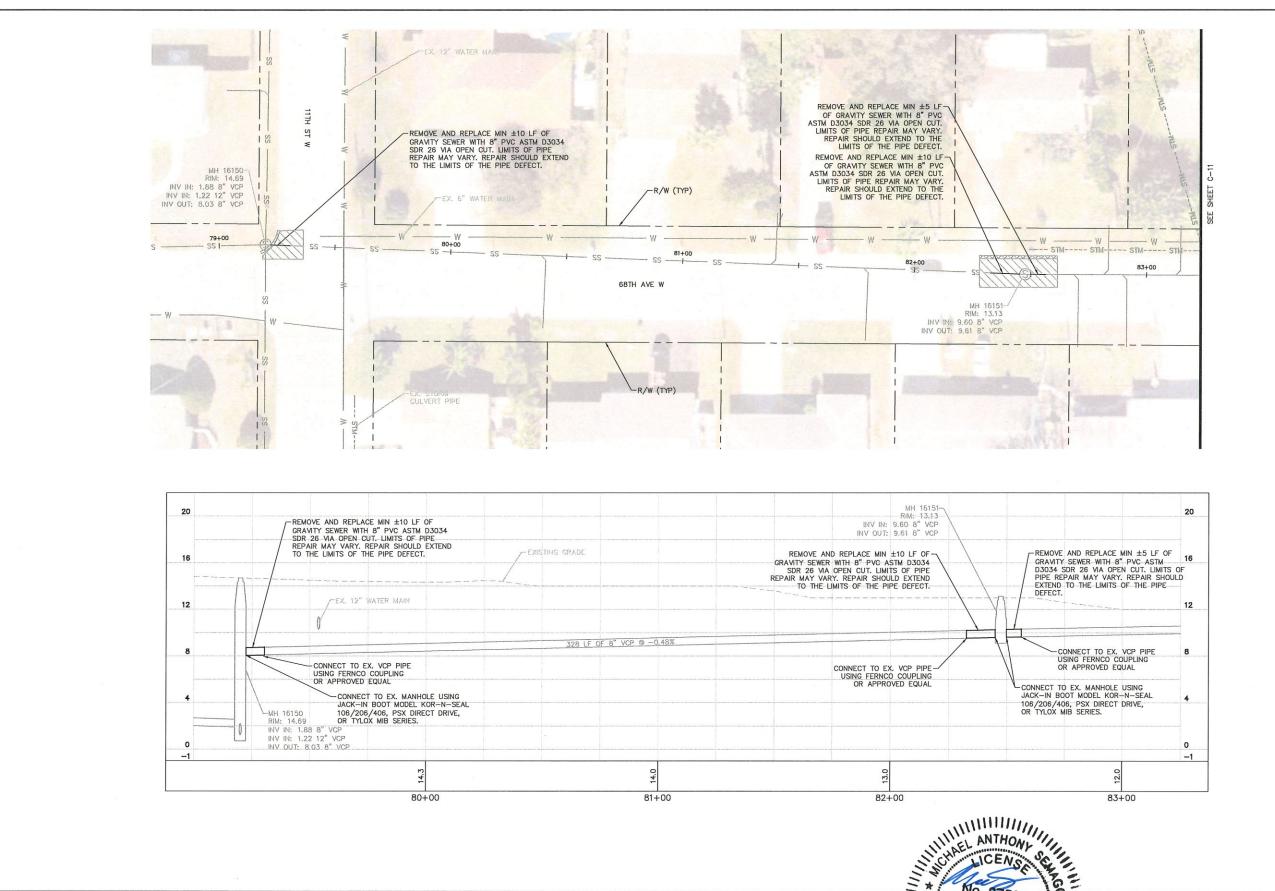
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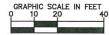
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KHA PROJECT 148400038 DATE 10/14/2020 SCALE AS SHOWN ESIGNED BY MAS DRAWN BY ATH



PROFE **GRAVITY SEWER REHABILITATION** CHECKED BY SNR MANATEE COUNTY

SEMAGO, P.E

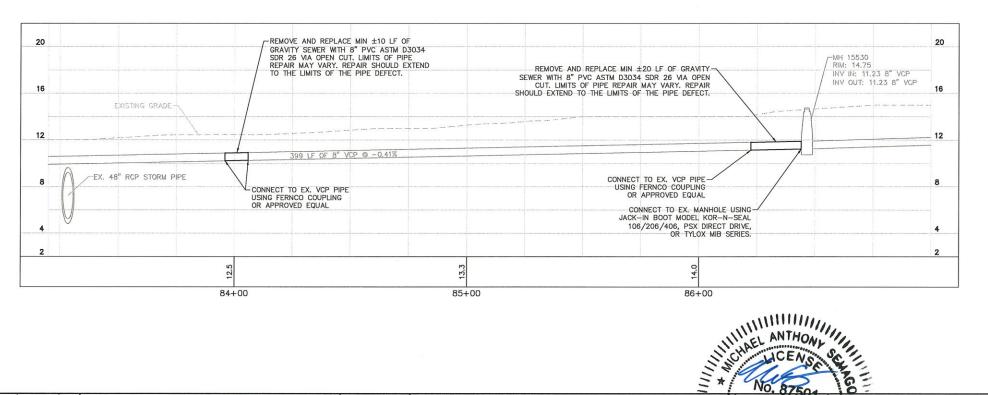
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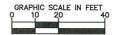
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CONCRETE RESTORATION\*

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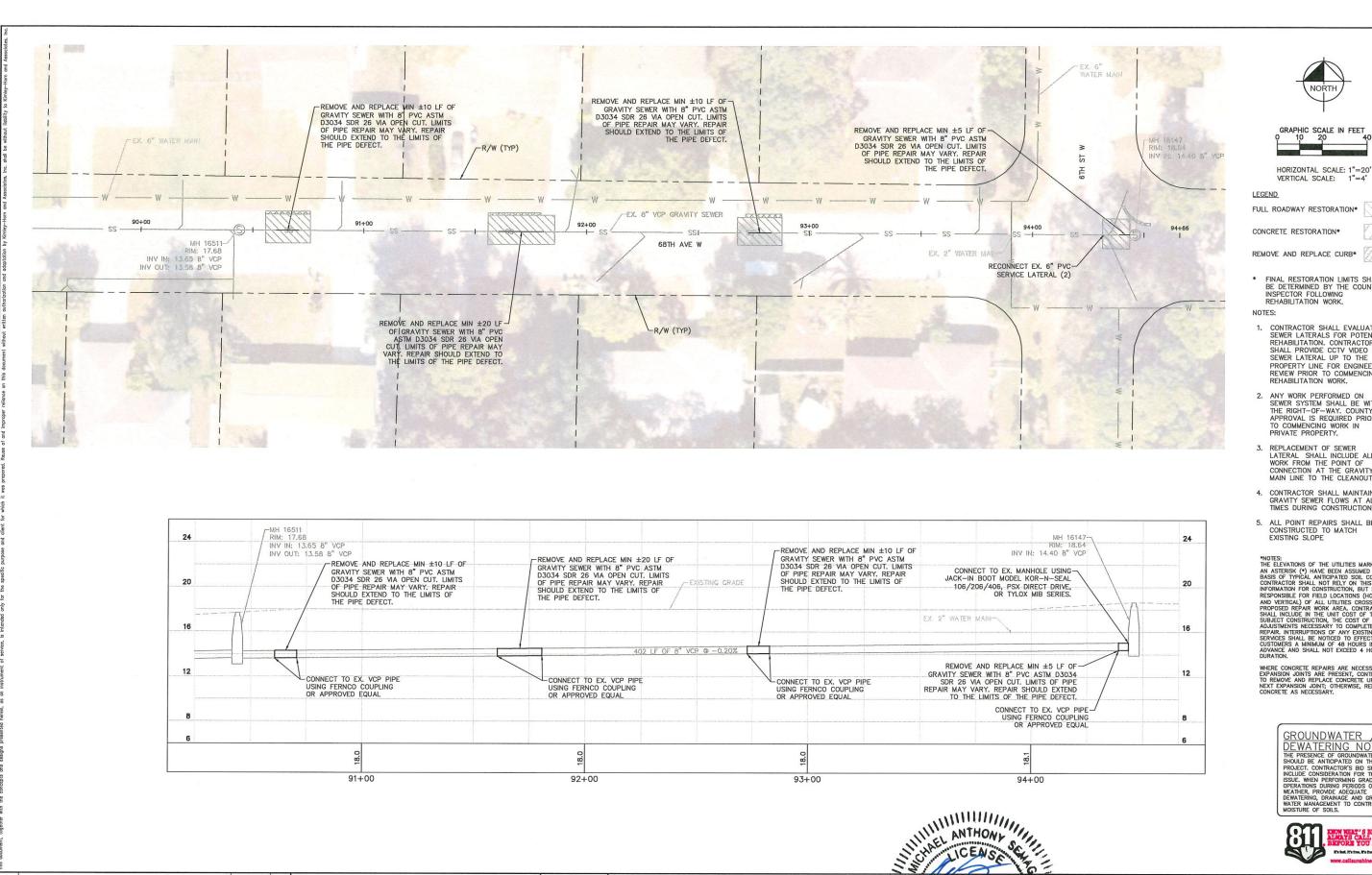
**GRAVITY SEWER REHABILITATION** CHECKED BY SNR MANATEE COUNTY



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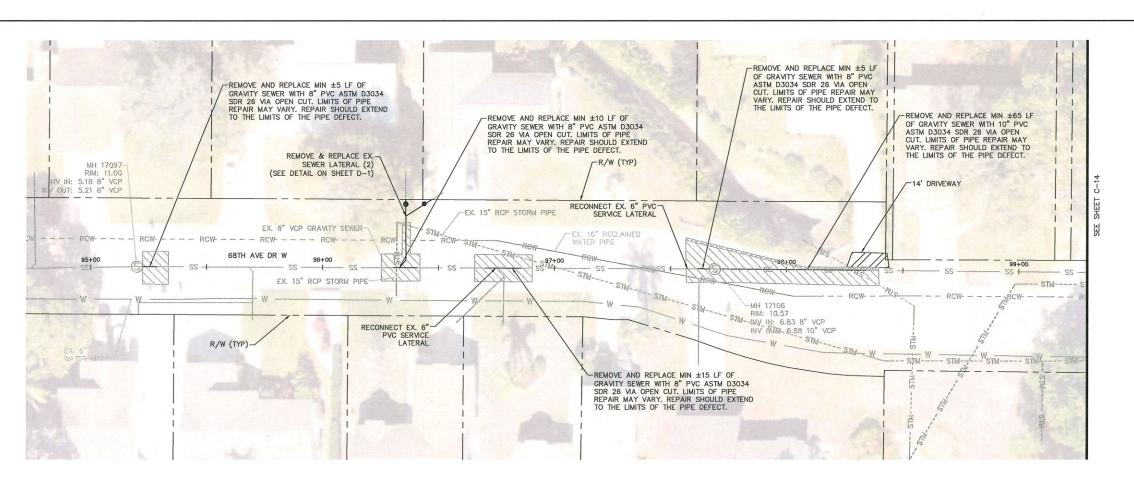
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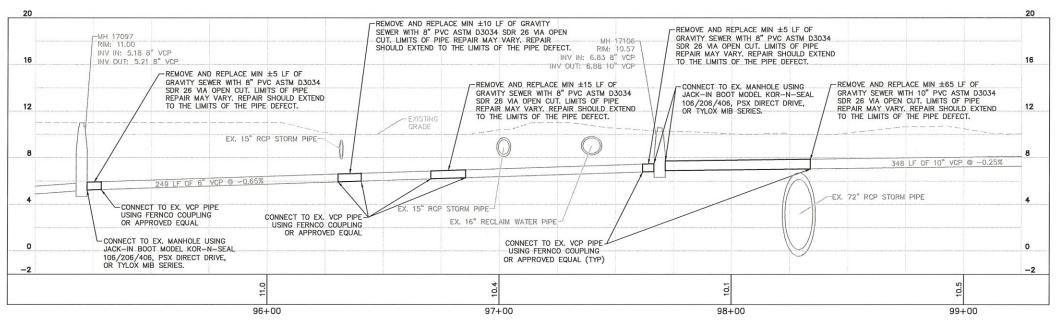
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PLAN AND PROFILE

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**LEGEND** 

FULL ROADWAY RESTORATION\*

CONCRETE RESTORATION\*

REMOVE AND REPLACE CURB\*

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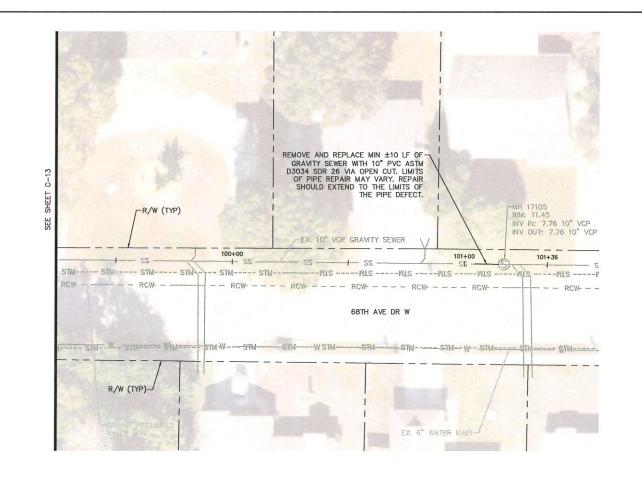


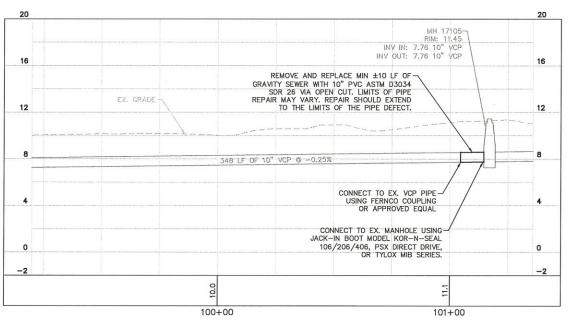
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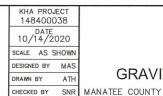
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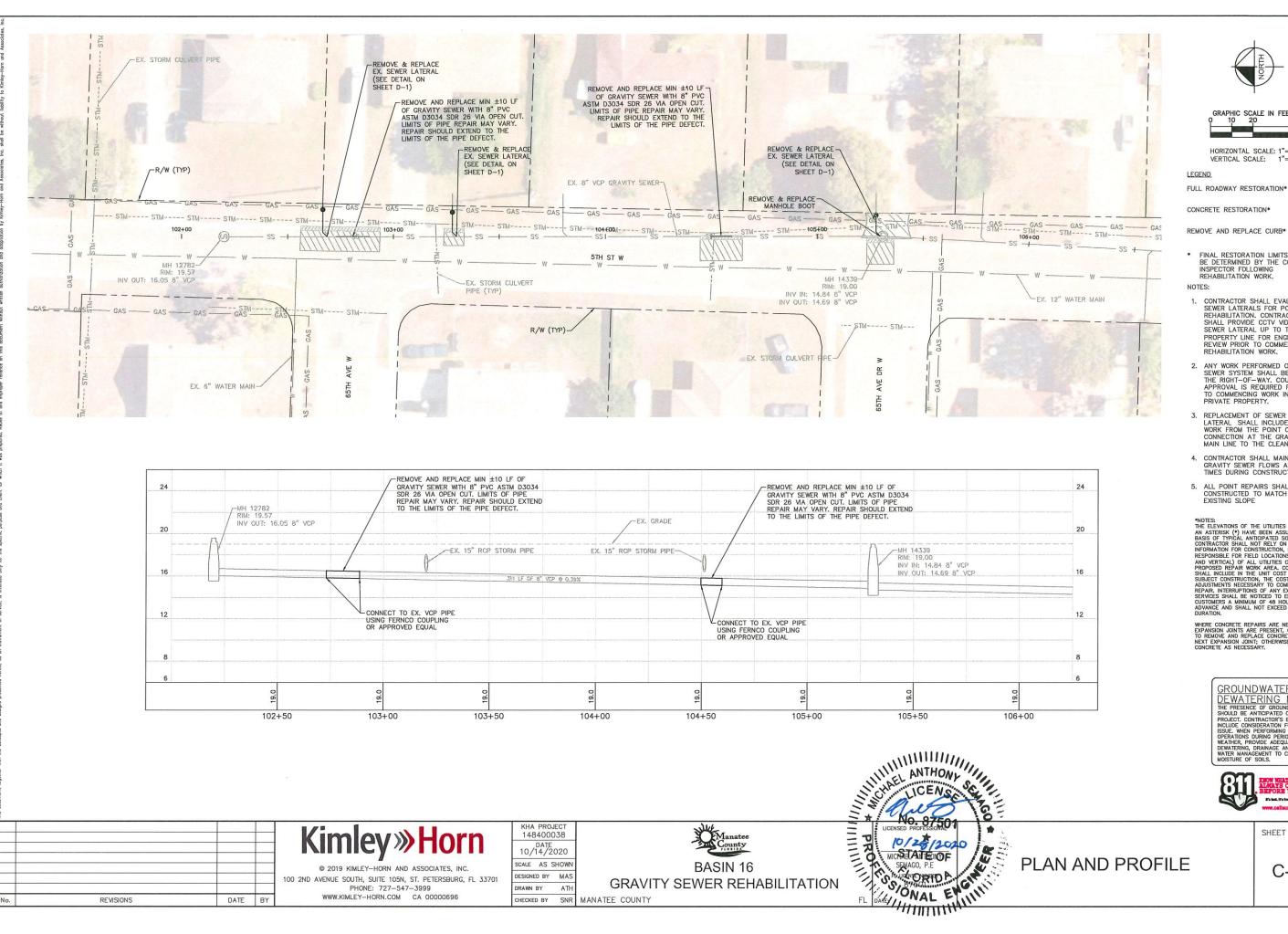
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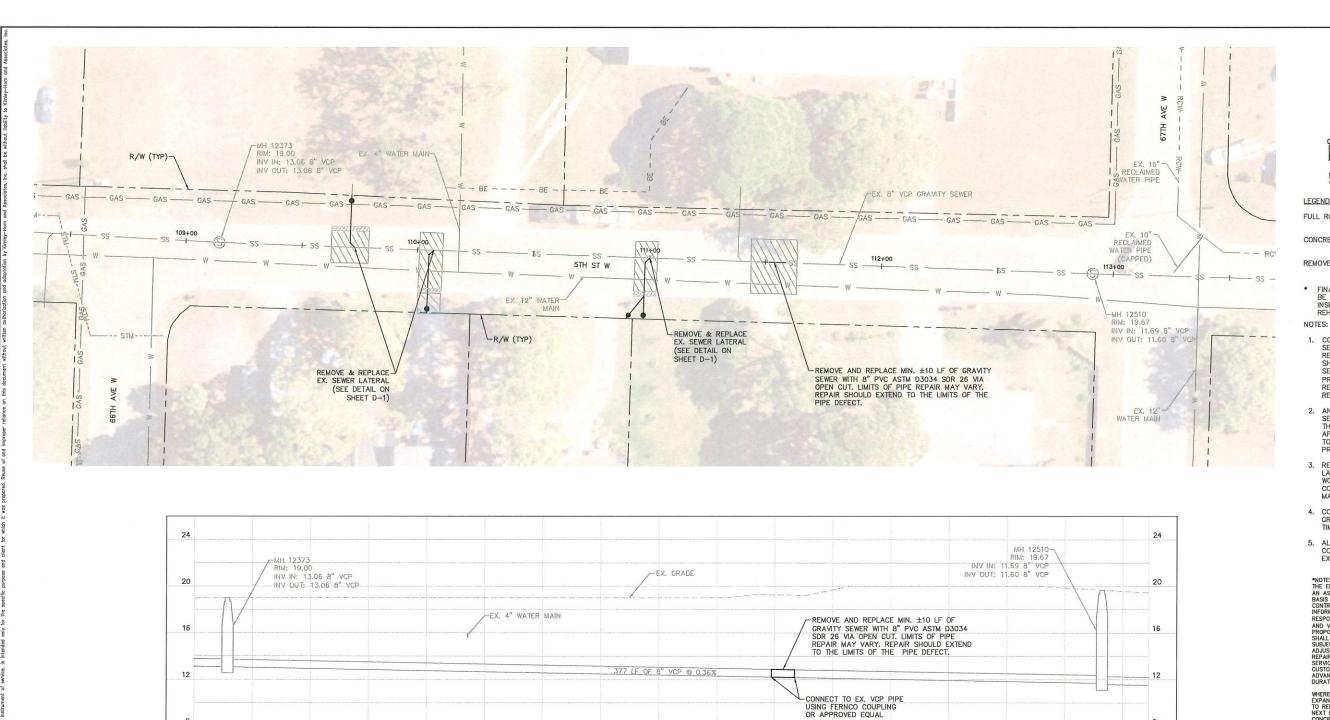
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WATER MANAGEMENT TO CONTROL
MOISTURE OF SOILS.



SHEET NUMBER



111+00





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

LEGEND

FULL ROADWAY RESTORATION\*

CONCRETE RESTORATION\*

REMOVE AND REPLACE CURB\*

\* FINAL RESTORATION LIMITS SHALL BE DETERMINED BY THE COUNTY INSPECTOR FOLLOWING REHABILITATION WORK.

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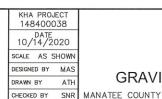
REVISIONS DATE BY

Kimley» Horn

110+00

109+50

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110+50



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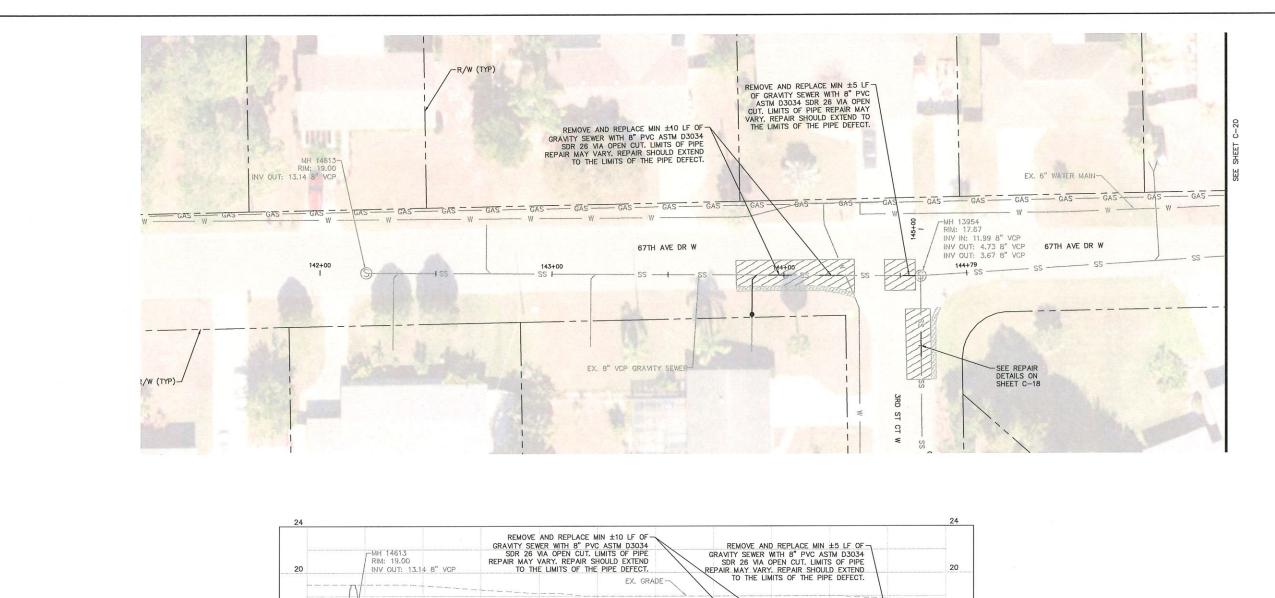
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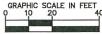
MICHAEL ANTHONY
STATE FOF
PL LICENSE NUMBER
187510 BASIN 16 **GRAVITY SEWER REHABILITATION** 

PLAN AND PROFILE

SHEET NUMBER







LEGEND

FULL ROADWAY RESTORATION\*

CONCRETE RESTORATION\*

REMOVE AND REPLACE CURB\*

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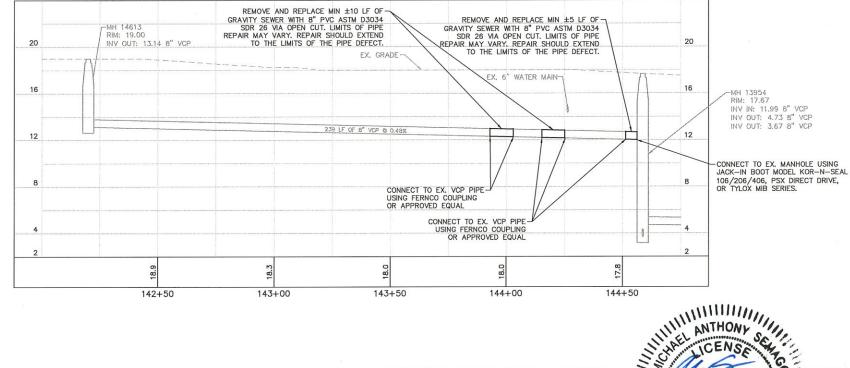
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REVISIONS

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CHECKED BY SNR MANATEE COUNTY



Manatee
County

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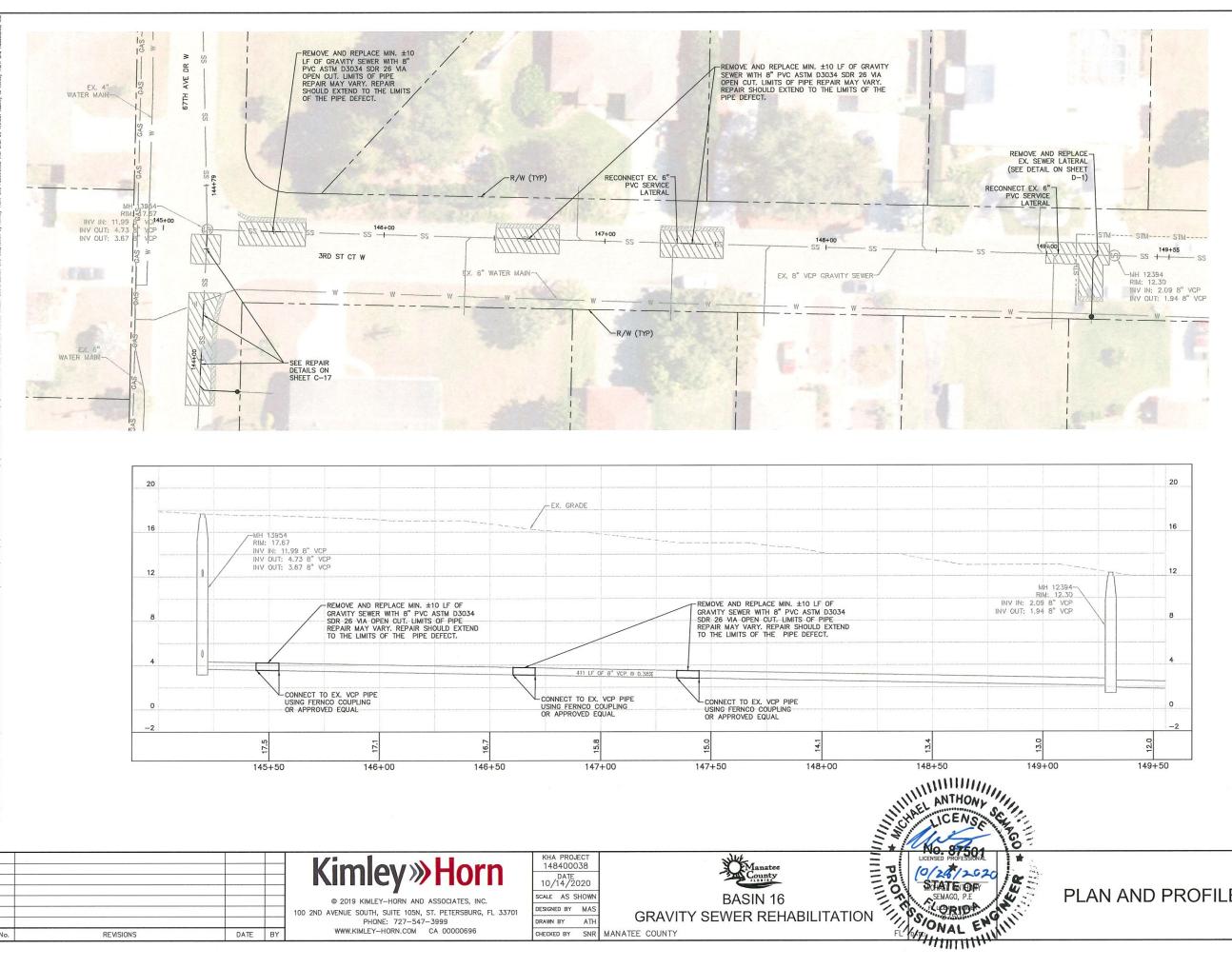
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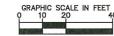
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SHEET NUMBER







LEGEND

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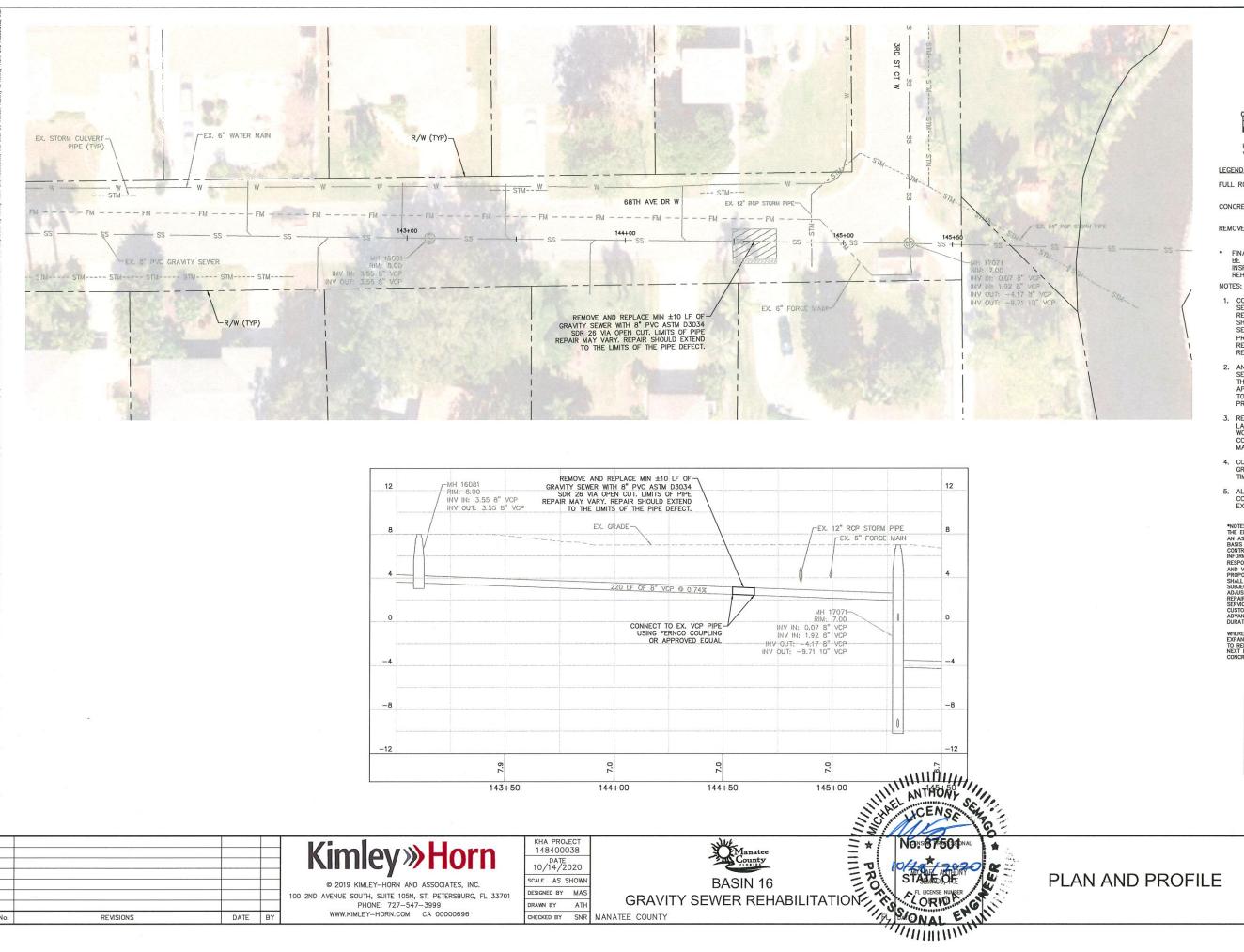
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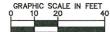


PLAN AND PROFILE

SHEET NUMBER







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DATE BY

REVISIONS

PHONE: 727-547-3999

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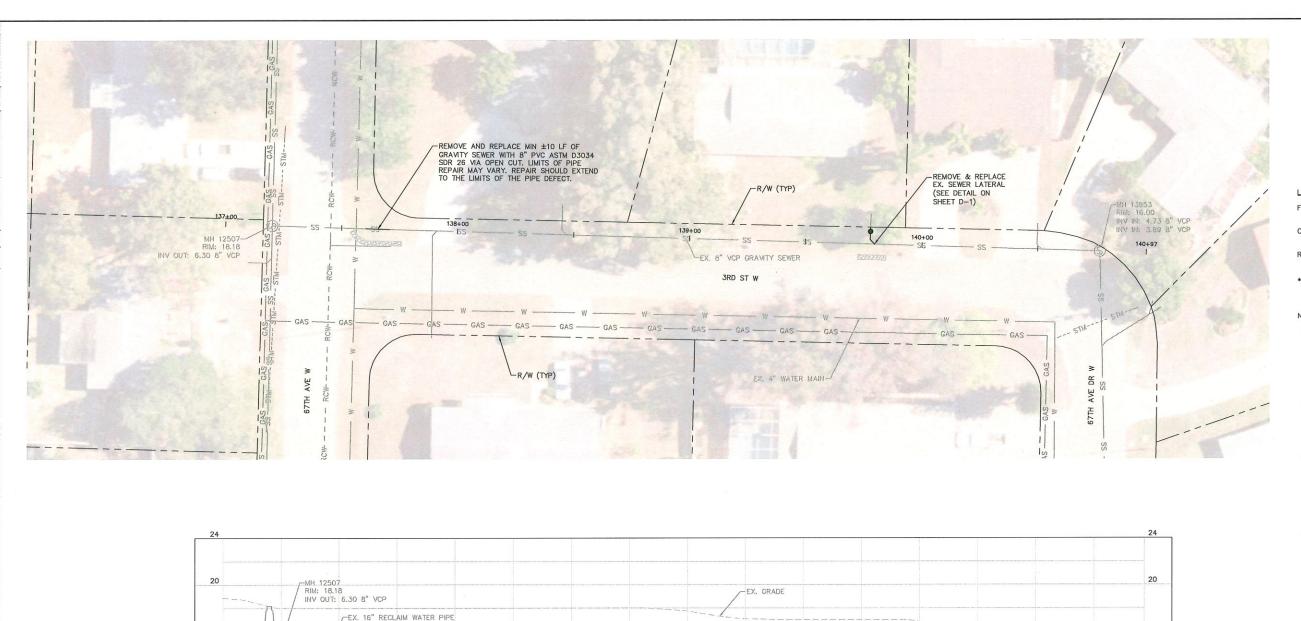
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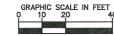


PLAN AND PROFILE

SHEET NUMBER







#### LEGEND

FULL ROADWAY RESTORATION\*

CONCRETE RESTORATION\*

REMOVE AND REPLACE CURB\*

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DATE BY

137 + 50

12

REVISIONS

EX. 8" WATER MAIN

REMOVE AND REPLACE MIN ±10 LF OF GRANTY SEWER WITH 8" PVC ASTM D3034 SDR 26 VIA OPEN CUT. LIMITS OF PIPE

REPAIR MAY VARY. REPAIR SHOULD EXTEND TO THE LIMITS OF THE PIPE DEFECT.

-CONNECT TO EX. VCP PIPE USING FERNCO COUPLING OR APPROVED EQUAL

138 + 00

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KHA PROJECT 148400038 DATE 10/14/2020 SCALE AS SHOWN ESIGNED BY MAS DRAWN BY ATH CHECKED BY SNR MANATEE COUNTY

138+50



139+50

357 LF OF 8" VCP @ 0.44%

139 + 00



PLAN AND PROFILE

16

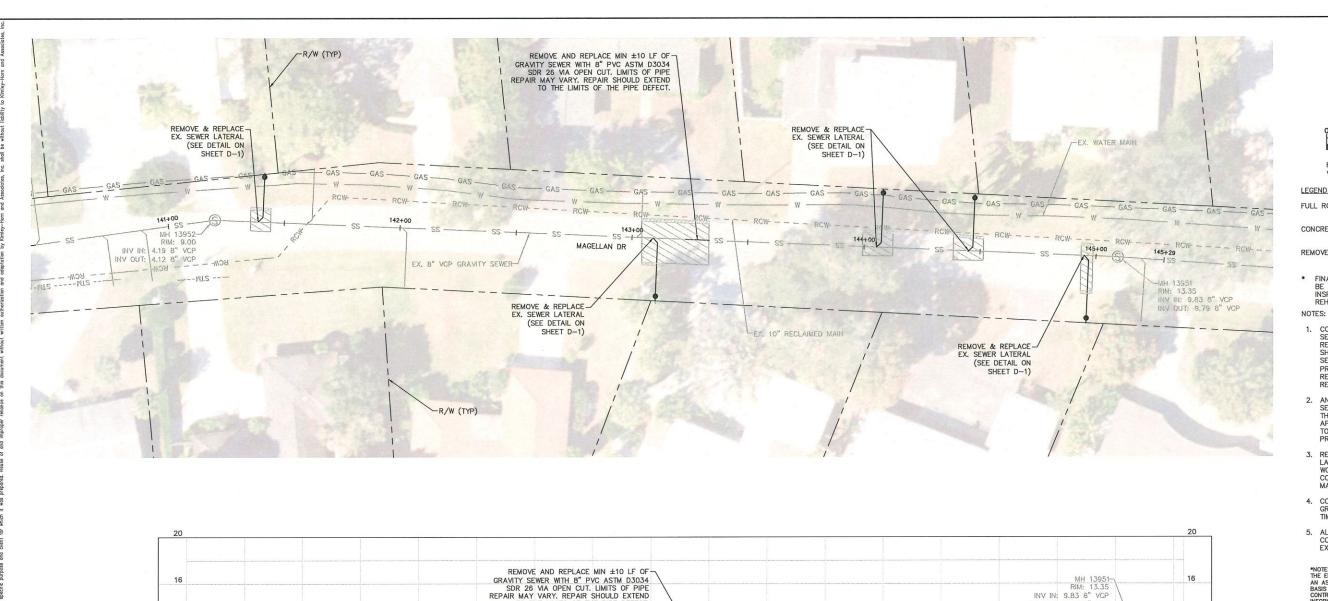
12

MH 13953-RIM: 16,00 INV IN: 4.73 8" VCP

INV IN: 3.89 8" VCP

140+001 ANTHOMYOFFO

SHEET NUMBER







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CONCRETE RESTORATION\*

REMOVE AND REPLACE CURB\*

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142+00

EX. GRADE-

RIM: 9.00

INV IN: 4.19 8" VCP INV OUT: 4.12 8" VCP

141 + 50

DATE BY

12

REVISIONS

KHA PROJECT 148400038 DATE 10/14/2020 SCALE AS SHOWN DESIGNED BY MAS DRAWN BY ATI

142+50

TO THE LIMITS OF THE PIPE DEFECT.

389 LF OF 8" VCP @ 1.44%

143 + 00

CHECKED BY SNR MANATEE COUNTY



143 + 50

-CONNECT TO EX. VCP PIPE USING FERNCO COUPLING OR APPROVED EQUAL

144+00



145+00

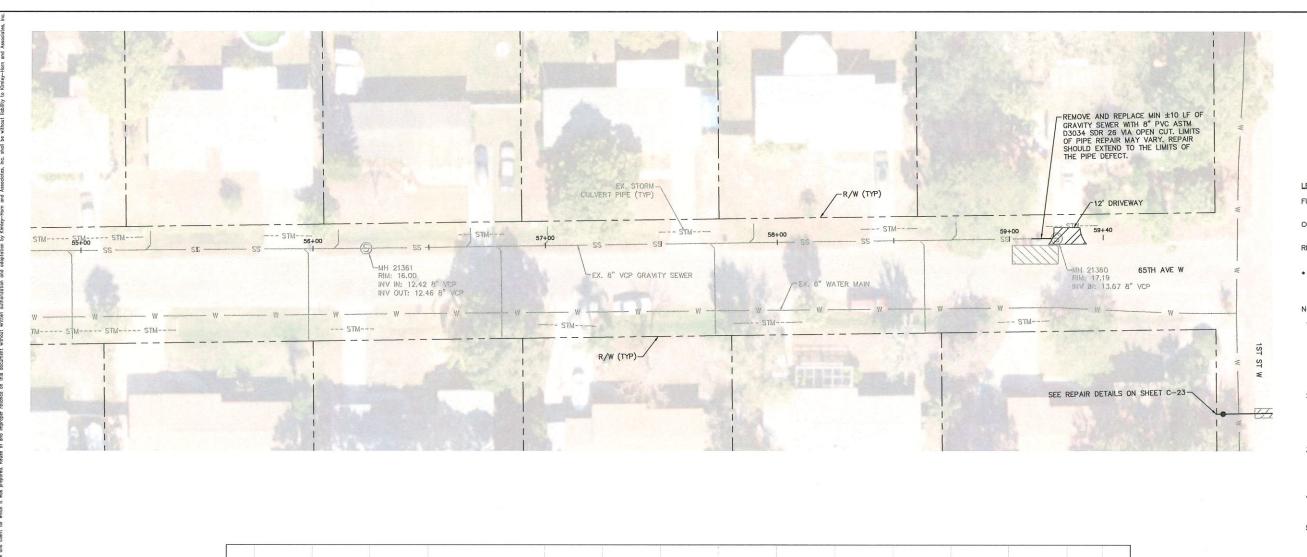
144+50

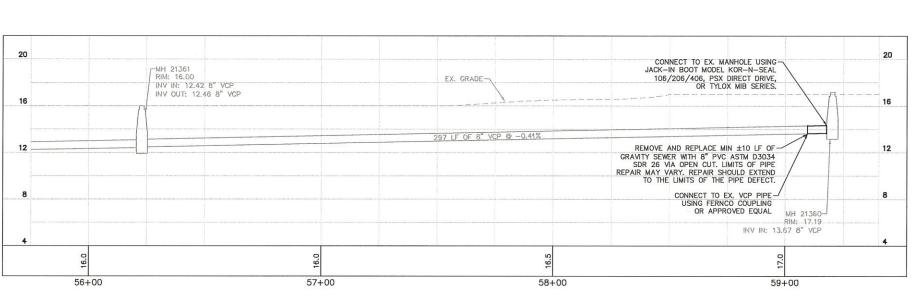
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PLAN AND PROFILE

12

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BASIN 16 **GRAVITY SEWER REHABILITATION**  PLAN AND PROFILE

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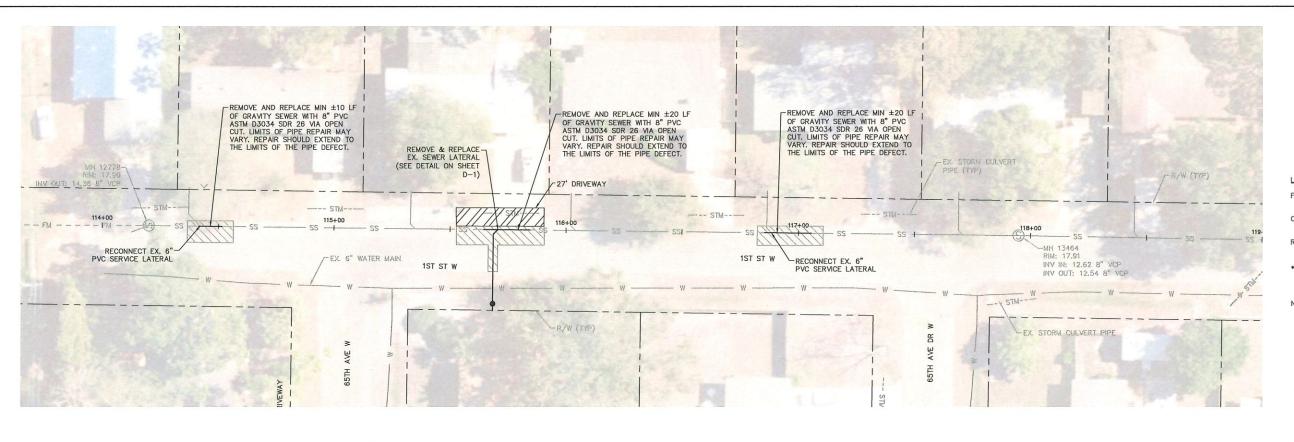
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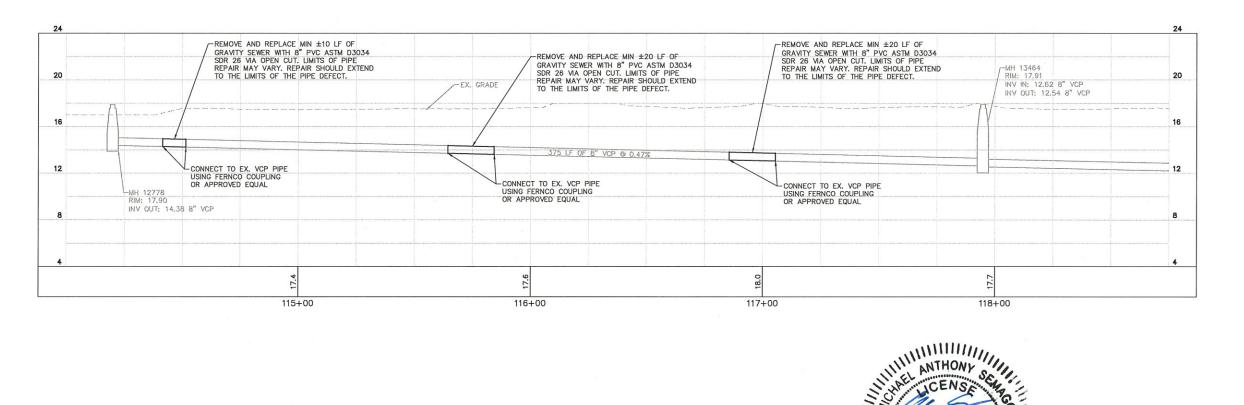
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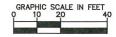
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DATE BY

REVISIONS

KHA PROJECT 148400038 DATE 10/14/2020 SCALE AS SHOWN DESIGNED BY MAS DRAWN BY ATH CHECKED BY SNR MANATEE COUNTY

PHONE: 727-547-3999 WWW.KIMLEY-HORN.COM CA 00000696

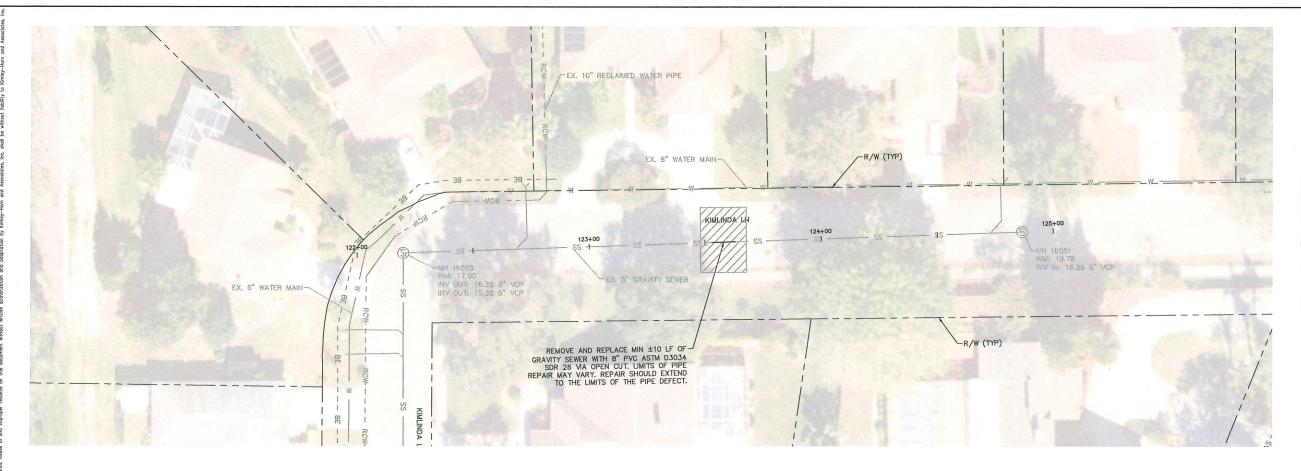


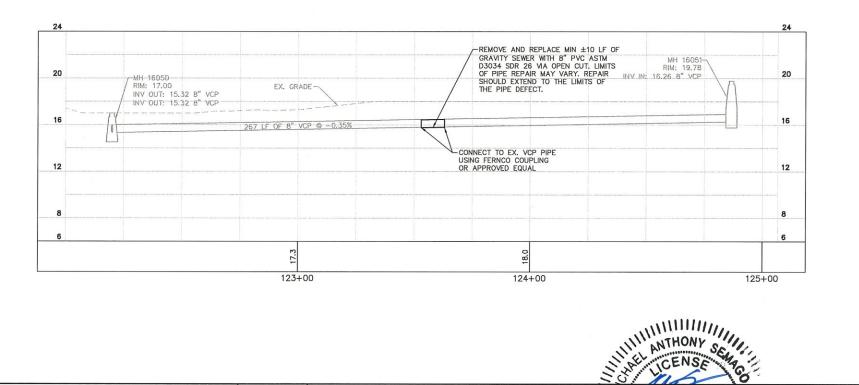
LITATION BOSTON BASIN 16 **GRAVITY SEWER REHABILITATION** 

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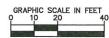
PLAN AND PROFILE

SHEET NUMBER









#### LEGEND

FULL ROADWAY RESTORATION\*

CONCRETE RESTORATION\*

REMOVE AND REPLACE CURB\*

\* FINAL RESTORATION LIMITS SHALL BE DETERMINED BY THE COUNTY INSPECTOR FOLLOWING REHABILITATION WORK.

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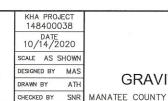
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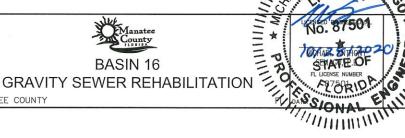
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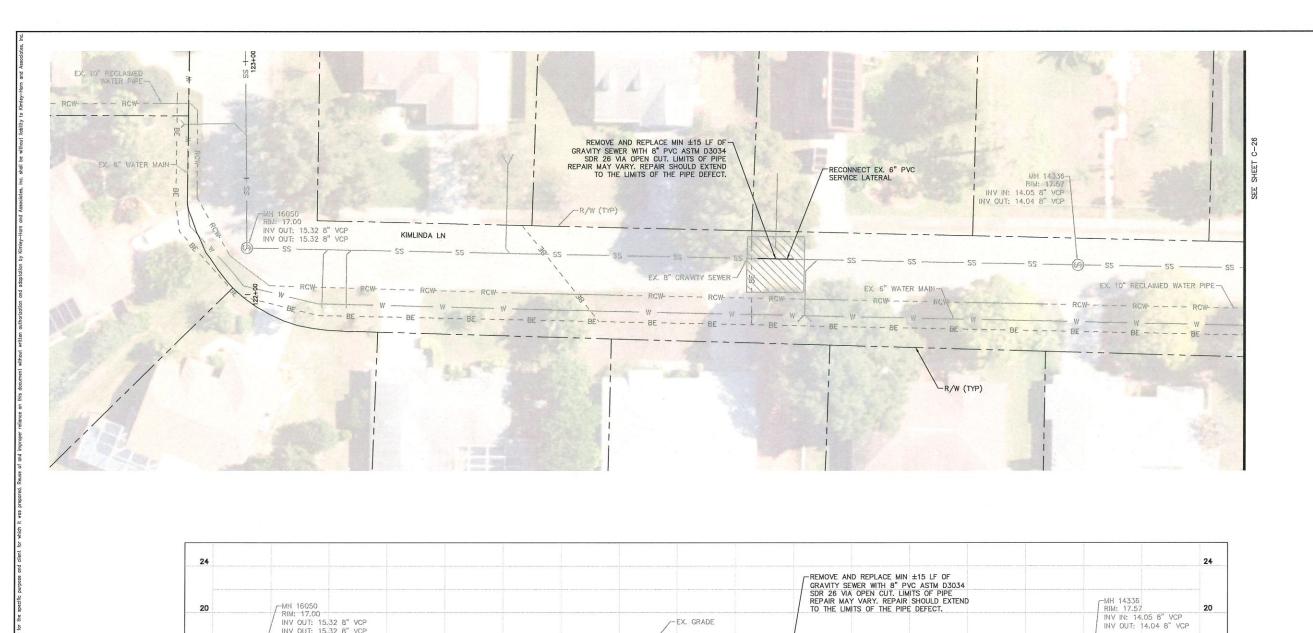




PLAN AND PROFILE

ARE ICENSE

SHEET NUMBER



EX. GRADE

358 LF OF 8" VCP @ 0.35%

128+00





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

LEGEND

FULL ROADWAY RESTORATION\*

CONCRETE RESTORATION\*

REMOVE AND REPLACE CURB\*

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DATE BY

127+00

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INV OUT: 15.32 8" VCP

INV OUT: 15.32 8" VCP

12

REVISIONS

KHA PROJECT 148400038 DATE 10/14/2020 SCALE AS SHOWN DESIGNED BY MAS DRAWN BY ATH

CHECKED BY SNR MANATEE COUNTY



TATION FL SAME ON AL **GRAVITY SEWER REHABILITATION** 

-CONNECT TO EX. VCP PIPE USING FERNCO COUPLING OR APPROVED EQUAL

129+00

PLAN AND PROFILE

16

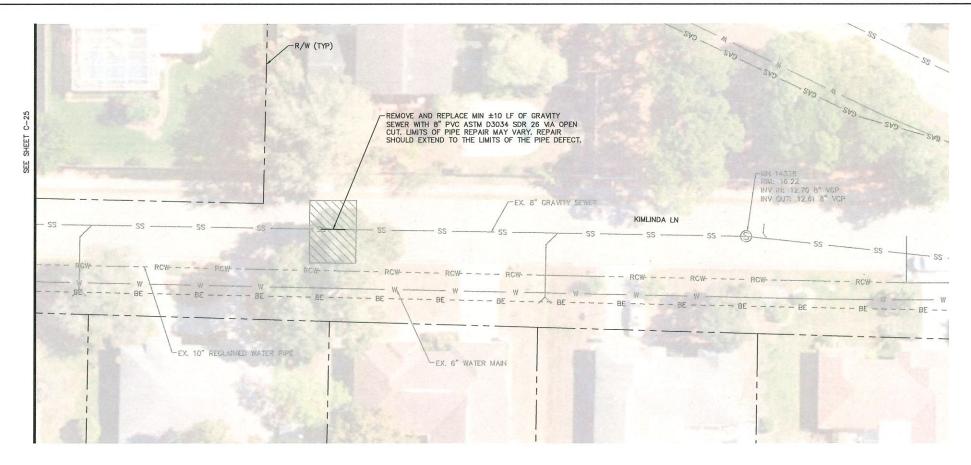
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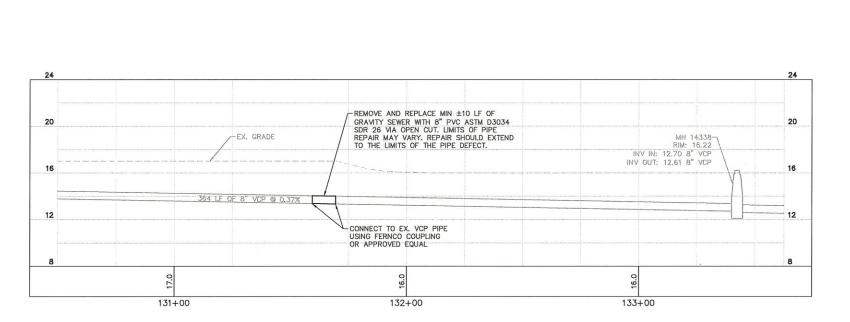
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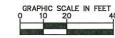
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CONCRETE RESTORATION\*

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PHONE: 727-547-3999

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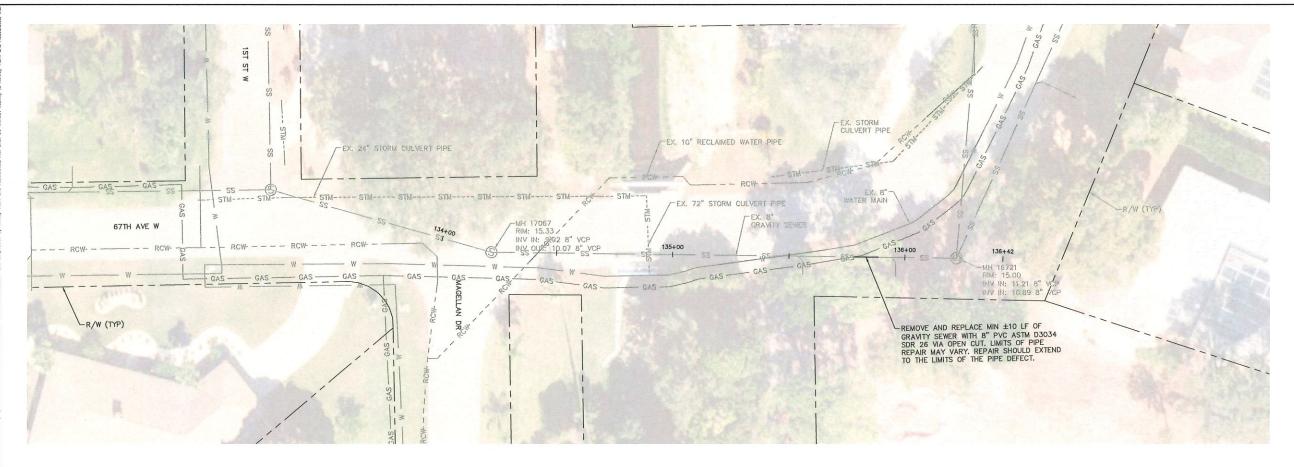
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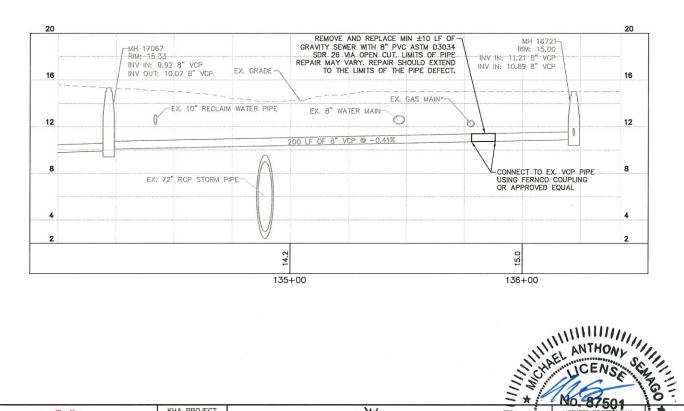
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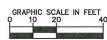
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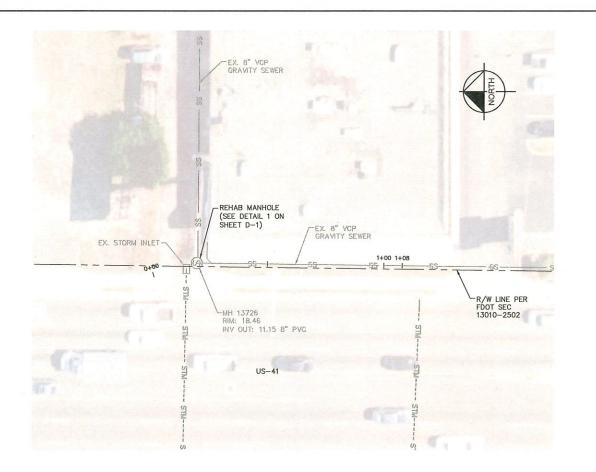
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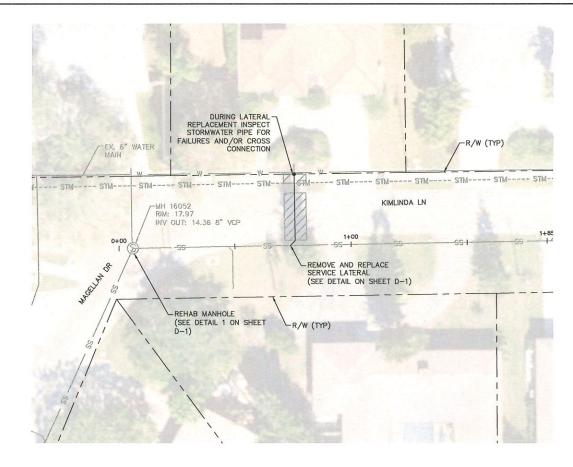


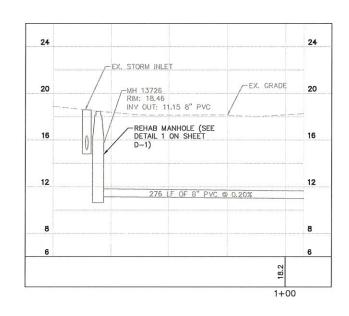


PLAN AND PROFILE

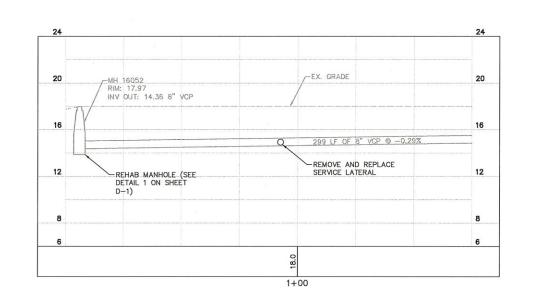
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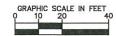


DETAIL 1 — US 41 CROSS CONNECTION



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

#### LEGEND

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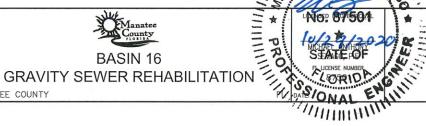
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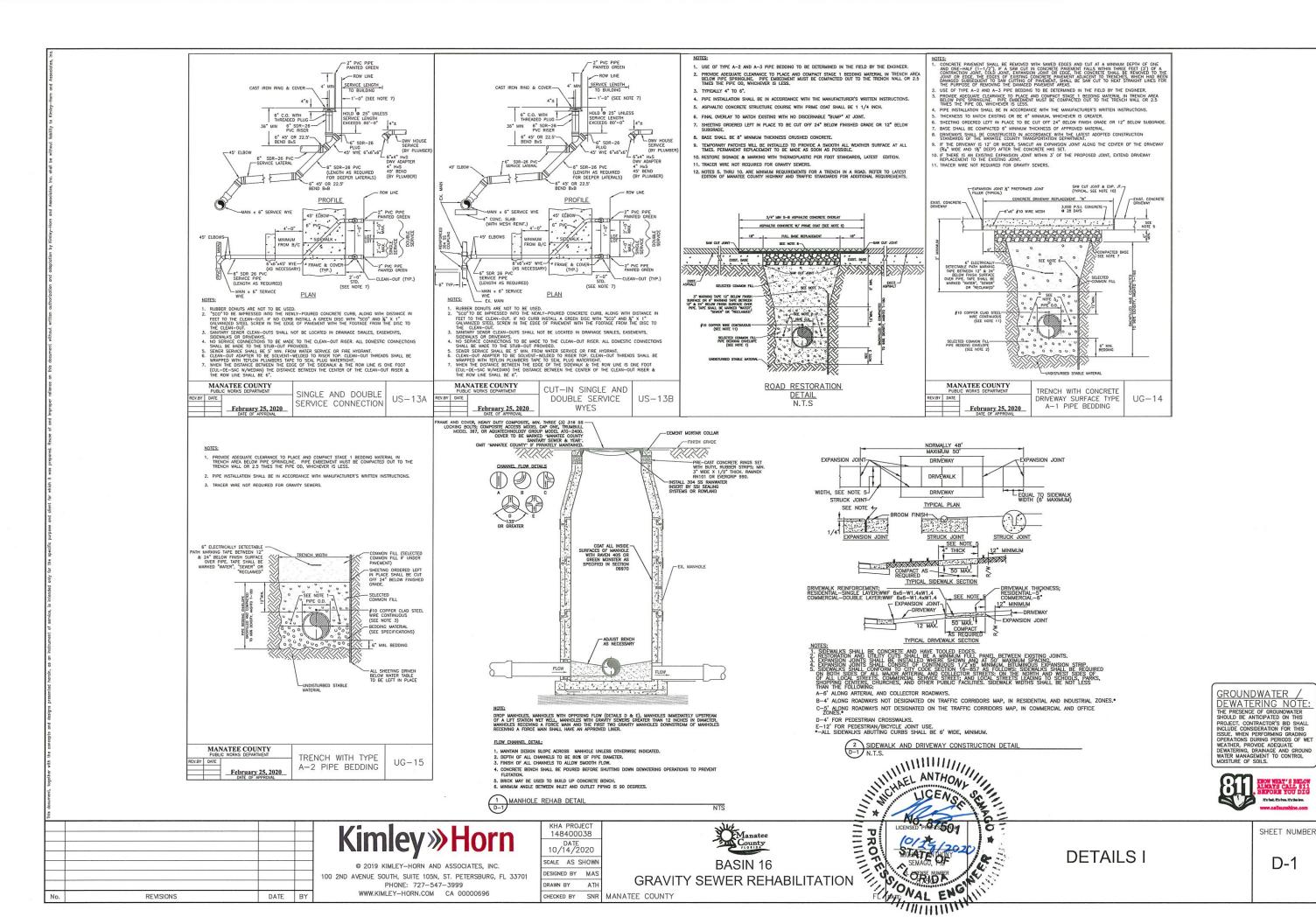
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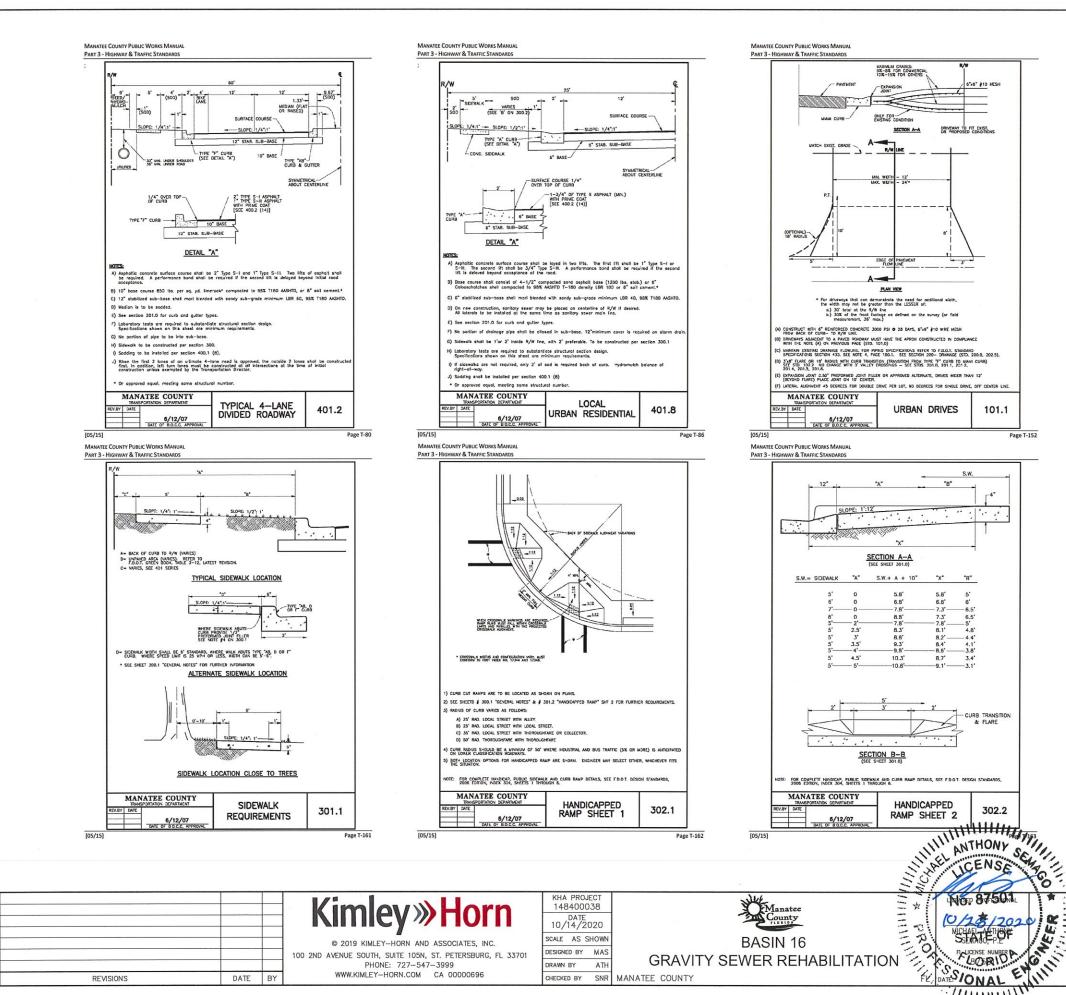


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SHEET NUMBER



D-1



MANATEE COUNTY PUBLIC WORKS MANU

302.2

TTPE "\* CURII For " driverups that can demonstrate the need for additional midth, the with may not be grotter from the LESSER of a.) 30" total at the Rylk fine b.) 30% of the front footoge as defined on the survey (or field measurements) 6"x6" \$10 MESH DRIVEWAY TO FIT EXIST, OR PROPOSED CONDITIONS TAIOL NOGHATIO 3' 4' INN. 3'15' FLARE W/ 4' CLAS TRANSTION WHEN REQUERED UN. 3's8' FLARE W/ 4'
CURB TRANSITION
WHEN REQUERED SECTION A-A B) REMOVE EXISTING SIDEWALK, REPLACE WITH 6" CONCRETE, 8"x6" \$10 VESH 3000 PSI AT 28 DAYS. C) DRIVEWAY CONSTRUCTED WITH 6" CONCRETE WITH 6"x6" #10 MESH 3000 PSI AT 28 DAYS D) DEPAISON JOINT 1/2" PETFORUED JOINT FILLER PER FOOT SECTION 932-1.1 (
S' SIDEMAIX ON LOCAL STREETS, S' SIDEMAIX ON THOROUGHIFATES, MAY REQUIRE B' SIDEMAIX SPEET LIMIT DEPLICAMENT CODE. 
F) SANCUT (1/4 PHICKNESS MINIMUM) ON 10" CENTERS. IF DRIVE IS WOLFR THAT 12" OF JOINTS AT 10" CENTERS. MANATEE COUNTY CURB CUT &
TRANSITION W/ T-FLARE
FOR RESIDENTIAL
DRIVES URBAN DRIVES 101.1 101.2

> GROUNDWATER DEWATERING NOTE:
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Page T-153



SHEET NUMBER

D-2

**DETAILS II** 

REVISIONS

DATE BY

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DESIGNED BY MAS

DRAWN BY ATH

CHECKED BY SNR MANATEE COUNTY