



LOCATION MAP



RECORD DRAWING **COUNTY MAINTAINED FORCE MAIN**



Contract Drawings For MANATEE COUNTY PUBLIC WORKS DEPARTMENT

FM 33A and FM 36A REPLACEMENT

MARCH 2021

MANATEE COUNTY PROJECT NO. 6097880

HDR Project No. 10171461

PREPARED BY: HDR ENGINEERING, INC. 4830 W KENEDY BLVD, SUITE 400 TAMPA, FL 33609 CA #4213

PROJECT DESIGNER: RYAN MESSER, P.E. FL 79332

Board of County Commissioners

District 1 Priscilla Whisenant Trace Reggie Bellamy District 2 District 3 Stephen R. Jonsson District 4 Misty Servia District 5 Vanessa Baugh Vice Chair At-Large Carol Whitmore Chair At-Large Betsv Benac Utilties Department Director: Mike Gore

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TRACER WIRE AND DETECTABLE TEST **CONDUCTED AND PASSED ON 06/21/23**



SUB-CONTRACTORS

- **ACME Barricades MOT Devices**
- AKCA Inc. Pavement Striping
- Cast-Crete USA, LLC dba Curbco Concrete Driveways, Curb & Sidewalks
- Florida Premier Turf Farms Sodding
- GML Coatings, LLC Manhole Rehabs
- **Hyatt Survey**
- Superior Asphalt, Inc. Asphalt Paving
- Cemex Materials, LLC Concrete Grout Slurry
- Preferred Materials Inc. Concrete Grout Slurry

VALVES

6" Plug Valve -

- Quantity 1
- Manufacturer GA INDUSTRIES
- 8" Plug Valve -
- Quantity 1
- Manufacturer GA INDUSTRIES
- 16" Plug Valves -
 - Quantity 4
 - Manufacturer GA INDUSTRIES
- 2" Gate Valves (@ ARVs) -
- Quantity 4
- Manufacturer KENNEDY

Air Release Valves

- Quantity 4
- Manufacturer GA Industries

Hyatt Survey Services, Inc.

EREBY CERTIFY THAT THIS SURVEY IS A TRUE AND ACCURA

GENERAL.

- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION, THE PROJECT MANAGER
- SITE VISITS ARE MANDATORY FOR ALL BIDDERS.
- SIL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANATE COUNTY UTILITY AND TRANSPORTATION STANDARDS AND/OR FDOT STANDARDS PROFESSIONATED FOR ROAD AND BRIEGE CONSTRUCTION. UNLESS OTHERWISE INDICATED ON THE PLANS.
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS AND REQUIREMENTS OF ALL PERMITS AND ALL GOVERNING FEBERAL STATE, AND LOCAL PROPERTY OF ALL GOVERNING AND PAY FOR ALL RECOVER PERMITS HAT ARE NOT PROVIDED IN THE BID DOCUMENTS, AT NO ADDITIONAL COST TO THE
- OWNER.

 CONTROLORS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS AND SERVE AS NOTICE TO THE CONTRACTOR THAT UNDERGROUND UTILITIES EXIST, THE CONTRACTOR THAT LYERY THE CONTROLOR OF THE CONTRACTOR WILL VERBY THE CONTROLOR OF THE CONTROLOR OF THE CONTRACTOR WILL OWNER AND THE CONTROLOR OF THE CONTROLOR WILL OBTAIN OWNER'S PERMISSION TO PERFORM "POT HOLING" PRIOR TO THE COMMENCEMENT OF WORK IN THESE AREAS, THE CONTROLOR WILL OBTAIN OWNERED, WILL OBTAIN OWNER WILL LOCATION AND THE CONTROLOR WILL OWNER OF THE CONTROLOR WILL OWNER WILL LOCATION FOR FUTURE WORK IN THE SAME AREA FOR HINSELF OR HIS SUBCONTRACTOR. THE CONTRACTOR WILL KEEP A RECORD OF THIS LOCATION FOR FUTURE WORK IN THE SAME AREA FOR HINSELF OR HIS SUBCONTRACTORS. THE CONTRACTOR WILL NOT BY THE OWNER'S PROJECT MANAGER MINERALIZED AND CONDITIONS ARE DISCOVERED.
- THE NOTIFICATION OF THE PROTOSE AN IMPOUND REPORT OF THE PROTOSE AND AN INCIDENT OF THE SUSPENSION OF
- CONTRACTOR AT NO COST TO THE OWNER.

 IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE ANY AND ALL UTILITIES ON THIS PROJECT (SEE NOTES 4 AND 5 ABOVE). FIELD CONDITIONS MAY NECESSTATE SLIGHT ALIGNMENT AND GRADE DEVATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, EXISTING UTILITIES & STORM FACLUTES, SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTHEY THE ENGINEET TO BETWEEN CHARTICATION BEFORE COMMENDED WITH CONTRACTOR'S ACTIVITIES WILL BE REPARED AT THE CONTRACTOR'S EXPENSE.

 THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR'S EXPENSE.

 THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSION THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTOR'S ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONDUCISIONS REGENOMED THE ACTUAL WILL BE ENCOUNTERED, AND DYON WHICH THEIR BIDS WILL BE BASED. 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 SECURICATION.

SAFETY

- THE CONTRACTOR SHALL BE RESPONSELE FOR COMPLIANCE WITH THE FLORIDA TRENDS 18-PEY ACT 80-98, LWS OF FLORIDA EFFECTIVE OCTOBER 1, 1990 AND THE TOTAL BID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS.

 11. CONTRACTOR TO CONFORM TO ALL COSTA REQUIRELEMENTS.

 12. THE CONTRACTOR THALL USE SHEET PLINES, SHEETING, BRACING, ETC, AS REQUIRED IN ALL EXACATION AREAS THAT CONFORM TO ALL OSHA REQUIRELEMENTS.

 13. THE CONTRACTOR SHALL USE SHEET PLINES, SHEETING, BRACING, ETC, AS REQUIRED IN ALL EXACATION AREAS THAT CONFORM TO ALL OSHA REQUIRELEMENTS.

 13. THE CONTRACTOR SHALL USE ALL INCESSERY ASPETY PRECAUTIONS TO AVOID CONTRACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.

- THE OFFICE OF THE OFFICE OFFIC

ENVIRONMENTAL

- 16. THE CONTRACTOR WILL SUBMIT AN ADEQUATE EROSION CONTROL PLAN TO THE ENGINEER OF RECORD AND RECEIVE AN APPROVED PLAN FROM THE OWNER PRIOR TO THE PRE-CONSTRUCTION MEETING.
- 17. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL INCESSARY STORM WATER, EROSION, AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE FDEP "FLORING ATOM WATER, EROSION AND SEMENTATION CONTROL INSPECTOR'S MANUAL." IT IS THE RESPONSIONED OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS AND TO DITCHES DURING CONSTRUCTION, DISCHARGE OF STORM WATER CONTRIBUTING TO A VIOLATION OF WATER QUALITY STANDARDS IN THE WATERS OF THE STATE WILL NOT BE ALLOWED.

- WATER QUALITY STANDARDS IN THE WATERS OF THE STATE WILL NOT BE ALLOWED.

 STOCKPILES SHALL BE PROTECTED AT ALL THES BY ON-STEE PRAINAGE 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 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 RETAIN TO CASE SHALL ANY STOCKPILED MATERIAL RETAIN AND TOWN AFTER THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION HICH MIGHTS BY PROPROVED BY THE EXCIDING PREPROVED BY THE EXCIDING PREPROVED BY THE EXCIDING PROPROVED BY THE PROPROVED BY THE EXCIDING PROPROVED BY THE PROPROVED BY THE MAINTAINED BY THE PROPROVED BY THE PROPROMED BY THE PROPROVED BY THE PROPROVE
- 22. SOIL DEPICED BY CONSTRUCTION WILL BE REMOVED, EROSION CONTROL SHALL BE IMPLEMENTED IN AREAS WHICH ARE CONSIDERED ENVIRONMENTALLY SENSITIVE. EROSION CONTROL SYSTEMS SHALL BE REQUIRED FOR ALL WORK WITHIN JURISDICTIONAL AREAS. THESE SYSTEMS MAY INCLUDE STAKED HAY BALES, SILT SCREENS, FILTER RABRIC, AND TURROIDTY SCREENS.
- ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.
- REQUIRED.

 IT HAT THE EROSION PRIVATION AND CONTROL DEVICES SHOWN IN THE EROSION CONTROL PLAN, PROPUDED BY THE CONTRACTOR, PROVE NOT TO BE INTEREST. THE PROPULATION AND CONTROL FOR MAINTAINING STATE WAITE CAULTY STANDARDS FOR DISCASSING FROM THE CONSTRUCTION SITE WILL BE REQUIRED, ALL ALTERNATE EROSION PREVENTION AND CONTROL DEVICES MUST BE APPROVED BY THE OWNER'S ENGINEER PRIOR TO PLACEMENT THE PROPULATION AND CONTROL DEVICES MUST BE APPROVED BY THE OWNER'S ENGINEER PRIOR TO PLACEMENT THE PROPULATION AND CONTROL PROPULATION AND CONTROL PROPULATION OF A MAINT AND CONSTRUCTION SITE. ALL WORK IN THE VICINITY OF OPEN WAITER AND/OR WELLANDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL REQULATIONS AND/OR PERMITS FOR THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAY FIRST RESULTION FROM HIS VOLATION OF APP REGULATION OR PERMIT CONTITIONS.

RIGHT-OF-WAY (R/W)

- 26. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
- 26. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY RIGHT-OF-MAY PAN/OF RESEMENTS SHOWN ON THE DRAWINGS.

 27. CONTRACTOR TO NOTE LIMITS OF PROJECT AND/OF RESEMENTS SHOWN ON PLANS. LOCATIONS AND DIMENSIONS OF EXISTING R/W AND ESSEMENTS ARE BUSED ON THE BOX AND ADMINISTRATION OF REQUIRED BY THE PANS. LOCATION OF A MAD THE SECRET PROVED TO AN ADMINISTRATION OF REQUIRED THE PANS. LOCATION OF A MAD THE SECRET PROVED AND ADMINISTRATION OF REQUIRED THE CONTRACTOR FOR THE R/W AND ESSEMENTS. CONTRACTOR HILL BE REPORTED UNITS. ALL WORK, NICLULAIDEN OF BUSINESS AND ADMINISTRATION OF THE R/W AND ESSEMENTS. CONTRACTOR WITH LESS AND ADMINISTRATION OF THE R/W AND ESSEMENTS. CONTRACTOR WITH LESS AND ADMINISTRATION OF THE R/W AND ESSEMENTS. CONTRACTOR WITH LESS AND ADMINISTRATION OF THE R/W AND ESSEMENTS. CONTRACTOR HILL BE PREPARED WITHIN LIMIT ON CERFETENCE AND RESTORMENT MONUMENTS, PINS, AND THE STATEMENT OF THE R/W AND ESSEMENTS. CONTRACTOR HILL BE PREPARED WITHIN LIMIT OF REFERENCE AND RESTORMENT AND CONTRACTOR HILL BE PREPARED WITHIN LIMITED PREMIST ROOM ON THE CONTRACTOR MUST DETAIL AND FREARED AT TRAFFIC CONTRACTOR IS TO RESTRICTED AND TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENCE FROM PROPERTION OF TRANSPORTATION MANALLA OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CONTRACTOR HILL THE PRE-CONTRACTION MEETING. THE PRE-CONTRACTION MEETING. THE SUPPLIED BY THE CONTRACTOR HILL DEPORT THE PRE-CONTRACTION MEETING.

- AND THE CONTROL AND SAFE PRACTICES: A TRAFFIE CONTROL PUNI STAIL BE SUPPLIED BY THE CONTROL AT THE PER-CONSTRUCTION MEDICAL BRIDGE.

 3. THE CONTROLTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED STROWN WATER STRUCTURES, PIPING, ENTRANCE PIPE AND HEADWALLS WHETHER SHOWN ON THE

 3.1 THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COMPLETE STAKE-OUT OF THE PROJECT, I.E., LINE, BENCHMARKS, CENTERLIBES, GRADE, SLOPE STAKE, STATIONING,
 UTILLY RELOCATIONS OR ANY OTHER STAKE-OUT THAT MAY BE REQUIRED TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE PLANE AND SECREFICATIONS. ANY AND
 ALL EXPENSES INCURRED FOR THIS WORK WILL BE INCLIDED IN THE UNIT PRICE BID ITEM MOBILIZATION, DEMOBILIZATION, BONDS AND PERMITS. NO ADDITIONAL PAYMENT
 WILL BE MADE FOR THIS WORK.
- WILL SE MADE FOR THIS WORK.

 THE CONTRACTOR SHALL COORDINATE THE CUTTING OF DRIVEWAYS WITH THE PROPERTY OWNER PRIOR TO CUT. ALL DRIVEWAYS WILL BE IN PASSABLE CONDITION AT THE
 END OF THE WORKDAY AND FULLY RESTORED PER SECTION 02575.

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

UTILITIES

- 34. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED VV, VH AND WH) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINT SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT SEEN VERIFIED.
- 35. 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.
- DISOREPANCIES OR CONFLICTS FOUND SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION.

 6. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WAITER AND SEVER LINES, STORM DRAINS, UNILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, MALBOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEDED OF FACILITY IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAR AND/OR REPLACE ANY DAMAGED ITEM AND A PROPERTY SHALL DRAIN FOR INCOMPANIES OF EXCENSIVE THE CONTRACTOR SHALL REPAR AND/OR REPLACE ANY DAMAGED ITEM AND A PROPERTY SHALL DRAIN FOR INCOMPANIES OF EXISTING THE CONTRACTOR SHALL BE COORDINATED WITH AND APPROVED BY THE MANATES COUNTY UTILITY OFFERTANCES DEPARTMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, IT IS NOTED THAT TEMPORARY SHUTDOWN MAY BE RESTRICTED TO CERTAIN HOUSE OF THE DAY OR HORIT AND WAIL BE COORDANCE WITH THE CONTRACT DOCUMENTS, IT IS NOTED THAT TEMPORARY SHUTDOWN SAN FER ERSTRICTED TO CERTAIN HOUSE OF THE DAY OR HORIT AND WAIL BE FLOW OF ALL SERMED UPON TO THE OWNER.

 38. FOR WORK BEING DONE ON EXISTING SANITARY SEWER LINES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR BEATLED BY THE FLOW OF ALL SERMED UPON THE CONTRACTOR SHALL BE RESPONSIBLE FOR BEATLED BY THE PASS PUMPING AND PER SECTION CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BEATLED BY THE FLOW OF ALL SERMED UPON THE PASS PUMPING AND PER SECTION CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BEATLED BY THE PASS PUMPING AND PER SECTION CONTRACTOR. THE CONTRACTOR SHALL SUBMIT A BETALE BY THE FLOW OF ALL SERMED UPON THE PER SECTION CONTRACTOR. THE CONTRACTOR SHALL SUBMIT A BETALE BY THE PASS PUMPING AND PER SECTION CONTRACTOR. THE CONTRACTOR SHALL SUBMIT A BETALE BY THE PASS PUMPING AND PER SECTION CONTRACTOR. THE CONTRACTOR SHALL SUBMIT A BETALE BY THE PASS PUMPING AND PER SECTION CONTRACTOR. THE CONTRACTOR SHALL SUBMIT A BETALE BY THE PASS PUMPING AND PER SECTION CONTRACTOR. THE CONTRACTOR SHALL SUBMIT A BETALE BY THE PASS PUMPING AND PER SECTION CONTRACTOR. THE CONTRACTOR SHALL SUBMIT AS BETALE BY THE PASS PUMPING AND PER SECTION CON
- 02720.
 39 CONTRACTOR IS TO KEEP ALL SANTIARY SEWER MANHOLES ACCESSIBLE BY COUNTY STAFF DURING CONSTRUCTION. IF A MANHOLE REQUIRES MODIFICATION OR IS DAMAGED/IMPACTED AS PART OF THE CONTRACTOR'S WORK, THE COUNTY SHALL BE NOTIFIED IMMEDIATELY.
- 40 PLASTIC RISER RINGS TO ADJUST MANHOLE LIDS WILL NOT BE ALLOWED.
- 40. PUSITIC RISES WINDS TO ADJUST WHEN PAYONED LIDS WILL NOT BE ALLOWED.

 41. CONTRACTION WILL NOTIFY THE OWNER 72 HOURS PRIOR TO START OF BY-PASS PUMPING.

 42. ARV(S) ARE SHOWN IN LOCATIONS BASED ON DESIGN PROPILE. ARV(S) ARE TO BE INSTALLED AT ALL HIGH POINTS CREATED DURING CONSTRUCTION. LOCATIONS TO BE APPROVED BY COUNTY PRIOR TO CONSTRUCTION OF ARV.
- 43. IN THE EVENT OF A WATER OR SEWER MAIN BREAK, CALL 24 HOUR EMERGENCY NUMBER (941) 792-8811 EXT. 5216.
- 43. IN THE EVENT OF A WATER OF SERVICES TO BE INSTALLED OR MODIFIED ON PRIVATE PROPERTY SHALL REQUIRE A PLUMBING PERMIT EXT. 3216.

 A. THE CONTRACTOR'S PLUMBER SHALL INSTALL A REDUCED PRESSURE (RP) TYPE BACKFLOW PREVENTION ASSEMBLIES (BPA'S) EQUIPPED WITH A PRESSURE RELIEF VALVE AT THE POTABLE WATER METER WHETEWER ANY OF THE FOLLOWING CONDITIONS EXIST AT A PROPERTY:

 *IN-GROUND IRRIGATION SYSTEM,

 - SECONDARY SOURCE OF WATER (I.E. RECLAIMED WATER OR WELL).
 - SWIMMING POOL • FIRE SPRINKLER SYSTEM
 - . FLOOD ZONE DESIGNATION (IF ONLY FLOOD ZONE, INSTALL A DOUBLE CHECK BPA),
 - PROPERTY THAT ABUTS OR INCLUDES A BODY OF WATER (INCLUDING RIVER, BAY, LAKE OR POND),

 - SOLAR WATER HEATING SYSTEM,
 MULTISTORY OR MULTIFAMILY RESIDENTIAL FACILITY.
 - E. A. LICENSED PLUMBER SHALL INSTALL THE BRA'S IN ACCORDANCE WITH THE CURRENT FLORIDA PLUMBING CODE AND MANATE COUNTY CODE OF ORDINANCES AND SHALL SELECT A PRESSURE RELIEF AVIL, WITH AN APPROPRIATE PRESSURE SELT POINT OF PROTECT THE CUMBET'S PLUMBING AND NOT ALLOW EXCESSIVE LEAVAGE DUE TO SYSTEM SUPPLY PRESSURE. A PRESSURE RECOUND MAY BE NECESSARY UPSTREAM OF THE PRESSURE RELIEF VALVE, WHERE NORMAL SUPPLY PRESSURE EXCELED BO PS, CONTRACTOR SHALL COMBINATE WITH COUNTY CROSS CONNECTION CONTROL STAFF AS REQUIRED.
 - C. IF IN-GROUND IRRIGATION SYSTEM IS CONNECTED TO THE POTABLE WATER LINE, AN ADDITIONAL REDUCED PRESSURE (RP) BPA SHALL BE INSTALLED AT THE POINT OF CONNECTION.
 - D. VACUUM BREAKERS SHALL BE INSTALLED ON ALL EXTERNAL HOSE BIBBS.
 - E. CONTRACTOR SHALL COORDINATE WITH COUNTY CROSS CONNECTION STAFF & PRIVATE PROPERTY OWNER AS REQUIRED. CROSS CONNECTION STAFF SHALL DETERMINE WHICH PROPERTIES REQUIRE A BPA AND TYPE OF BPA TO BE INSTALLED.

RESTORATION

- 45. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.

- 45. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.

 46. ALL DISTRIBED GRASES PAREAS SHALL BE SODDED OR SEEDED UNLESS OTHERWISE MICRORAGE, THE TYPE OF SUBSTITUTE OF SHALL BE COORDINATED WITH THE PROPERTY OWNER.

 47. ALC CONFORM THROUGH OF THE PROPERTY OWNER.

 48. ASPHALT DRIVES THAT ARE CUT SHALL BE RESTORED PER SPECIFICATION SECTION 2513.

 49. CONFORTE DRIVEWAYS OR SUBMULKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO THE CURRENT EDITION OF THE F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN. THE FIGOT. DESIGN STANDARDS AND THE AWARDE COUNTY TRANSPORTATION DEPARTMENT SIDEMALK STANDARDS AS SHOWN ON SHEET C-502.

 WHENEVER A PERMANENT ROADWAY SUBPRACE IS NOT PLACED IMMEDIATELY ARET RACKFILLING. AND COMPACTION THE MENT MICROLAGE AND THE AREAS WHENEVER THAT THE CONTRACTOR SHALL BE TEACHED ON TENNING ACCORDING TO THE WINTY INSTALLED PIPE LINE IN AREAS WHENEY THROUGH AND THE PROPERTY SUBPRACE CONSISTING OF NINE MICROSES OF COMPACTED LINE ROCK BASE AND A COAT OF ASPHALT EMULSION, PERMANENT ROADWAY SUBPRACE AND MICROSES OF TRANSPORTATION OF CURRENT FER INSTITUTION OF TWENTY—ONE CALEBORA DAYS OF THE HEIGHT IN THE MENT MICROSES AND A COAT OF ASPHALT EMULSION, PERMANENT ROADWAY SUBPRACE S NOT PLACED AN AXION OF TWENTY—ONE CALEBORA DAYS OF THE HEIGHT AND FOR CUTTING.

 51. RESTORATION OF CURREN, DRIVEWAYS, SIDEWALLS, FRINCES, MALLEDERS AND METER BOXES, AND PLACEMENT OF SOO SHALL BE COMPLETED WITHIN FORTY—FIVE CALEBORA DAYS OF WHICH DESTURABLES, OF TWENTY—ONE CALEBORA DAYS OF SUBSTITUTION COUNTERNS.

CONSTRUCTION

FL. CERTIFICATE NO. 79332

- CONSTRUCTION

 2. THE CHANAST 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.

 5.3. NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY, AS DIRECTED BY THE ENGINEER. AT NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY, AS DIRECTED BY THE ENGINEER. AT NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. AND FOR THE SHALL BE SWEPT TO PAILY AS DIRECTED PAILY OF THE SHALL BE SWEPT TO PAILY AS DIRECTED THE SHALL BE SWEPT TO SHALL BE SWEPT TO

- TEES, CROSSES, BENDS (HORIZONTAL AND VERTICAL), PLUISE AND OTHER APPLYITEMINESS WILL BE INSTALLED WITH RESTRANED JOINTS UNLESS OTHERWISE, NOTED.
 ALL FITTINGS FOR PRESSURE CLASS-PARTED PIES SAUL ER. RESTRANED DUCTILE FORD, CONTRACTOR WILL EXPOSE AND RESTRAN EXISTING PIEP FACILITIES AND THEIR
 APPLYITEMANCES AT THOSE LOCATIONS WHERE MODIFICATIONS, CONNECTIONS, TAPS, ETC. ARE MADE TO EXISTING FACILITIES. RESTRAINED LENGTHS OF PIPE SHALL
 ADHERE TO THE REQUIREMENTS AS SHOWN ON THE DETAIL SHEET AND THE PIPE FACILITIES.

RECORD DRAWING COUNTY MAINTAINED FORCE MAIN

GENERAL NOTES



AS-BUILT 03-03-23 PROCESS DESIGNER 07/2019 30% SUBMITTAL PROJECT NUMBER 10171461

PROJECT MANAGER RYAN MESSER P.E.

Manatee FM 33A AND FM 36A County

REPLACEMENT

(1 OF 2)

FILENAME G-102.DWG SCALE NONE

SHEET G-102

CONSTRUCTION (CONTINUED)

- CONSTRUCTION (CONTINUED)

 5. WHERE IT IS NECESSARY TO DEFLECT IN. SHOP DRAWINGS WILL BE FURNISHED TO THE ENGINEER FOR APPROVAL OF ALL PIPE CONNECTIONS, TRANSITIONS, AND SPECIAL THESE PLANS AND DESCRIBED IN THE TECHNICAL SECREPTIONS FOR THIS PROJECT, OR FEE CURRENT EDITION FOR 622-553.14.

 66. IMMIMIMUM VERTICAL AND HORIZONTAL CLEARANCES WILL BE MANTAINED BETWEEN POTABLE WATER, RECLAMED WATER, SANTRAY MAINS AND STORM SEWERS AS DETAILED IN THESE PLANS AND DESCRIBED IN THE TECHNICAL SECREPTIONS FOR THIS PROJECT, OR FEE CURRENT EDITION FOR 622-553.14.

 67. UNLESS OTHERWISE NOTED ON THIS DRAWINGS A MINIMUM OF 46* HORIZONTAL COVER WILL BE MANTAINED ABOVE ALL BURIED DIPES. A MINIMUM OF 12* VERTICAL CLEARANCE WILL BE MANTAINED BETWEEN BURIED DAYS LINES AND ALL OTHER UTILITIES.

 68. DUE TO DAS LINE PRESSURE, NO WORK OR STAGNS OF WORK SHALL BE DONE WITHIN 10 FEET OF HE GAS MAIN WITHOUT THE NOTIFICATION OF TECO FIELD.

 69. ALL PIPE LENGTHS ARE FLUES OR MINIUS AND MAY BE ADJUSTED IN THE REFLEX AS REQUIRED. PIPE MEASUREMENTS ARE TO CENTER OF STRUCTURES OR FITTINGS.

 70. ALL ROCKS OR STONES LARGER THAN SIX INCH DUMETER SHALL BE REMOVED FROM THE BROKFILL MATERIAL BOCKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPETENCES SHALL NOT CONTAIN ANY STONES LARGER THAN TWO INCH DUMETER.

 71. FUNCATISFACTORY MATERIAL, FOR ABCOLULTE BEARING IS ENCOUNTERED AT THE NORMAL SUBGRADE, THE UNSATISFACTORY MATERIAL FOR ABCOLULTE BEARING IS ENCOUNTERED AT THE NORMAL SUBGRADE, THE UNSATISFACTORY MATERIAL FOR ABCOLULTE PERMITS AND EQUIPMENT REQUIRED FOR DEPARTMENT WILL FROM PLAY FOR A PROVINCE AND ADDITIONAL COST TO THE OWNER.

 72. PORT OF THE CONTRACT SECRETATIONS AND NOTED IN THE PLAY DETAILS. IN THE EVENT THAT DEWATERING IS REQUIRED. THE WATERIAL WAS DECIDED FOR DEMANTER WILL FROM THE SUTHABLE BACKFILL MATERIALS AND EQUIPMENT WILL BE REMOVED. DISPOSED OF DEMANTER WILL FROM THE SUTHABLE SHAPE AND ADD

- ARE TO BE INSTALLED AUCENT TO THE CORONN OF THE PIPE SO AS TO MANNEZ AR GAP POTENTIAL.

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 TO ALL TEST POUNT PIPING SHALL BE LITED AUCENT OF THE CORONN OF THE PIPING SYSTEMS.

 TO ALL TEST POINT PIPING SHALL BE CUT LOOSE FROM THE CORPORATION STOP AND COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR PIPING TO FIPING ACCEPTANCE A CORPORATION STOP PLUS BHALL BE INSTALLED AND THE CORPORATION OF THE PROPOSED UTILITIES TO AVOID DESTALLES, AS ORDERED BY THE ENGINEER.

 TO CONTRACTOR SHALL ENVIRON ERCORD DEARNANCS IN ACCORPORACE WITH SECTION 1.14 IN THE CURRENT MANNEX COUNTY STANDARDS AT NO COST TO THE COWNER. RECORD DRAWNESS SHALL BE SONGED AND SEALED BY A SURVEYOR. CURRENTLY LICENSED BY THE STATE OF FLORIDA. ALL RECORD DRAWNING INFORMATION.

 THE CONTRACTOR SHALL ENVIRON TO REVIEW OF A SURVEYOR. CURRENTLY LICENSED BY THE STATE OF FLORIDA. ALL RECORD DRAWNING INFORMATION OF THE PROPOSED UTILITIES TO AVOID DOSS THALL RECORD DRAWNING INFORMATION.

 THE CONTRACTOR SHALL ENVIRON TO REVIEW ON AN ORDINARY OF THE WORK AS CONSTRUCTED. AS PAIL TRANSMOSS SHALL BE CONTRACTED TO THE CONTRACT OF SHALL BY AND A PROPERTY OF THE WORK AS CONSTRUCTED. AS PAIL TRANSMOSS SHALL BE CONTRACTED TO THE COUNTY PROJECT MANAGER AND/OF RELID DRAWNINGS SHALL BE WORK PROJECTS AND SHALL BE CANAILABLE TO THE COUNTY PROJECT MANAGER AND/OF RELID TRANSMOSS SHALL BROWN ON THE CONSTRUCTION OF ALL NEW PIPELINE, FITTINGS, VALUES AND FORCE MAIN APPURTEMENCES REFERENCED TO FIXED SHALL BE SHOWN ON THE CONSTRUCTION DRAWNINGS AND/OF REGION DRAWNINGS TO THE WORK PROGRESSES.

EXISTING UTILITY LOCATIONS

- EXISTING UTILITIES WERE IDENTIFIED WITH SURVEY USING GROUND PENETRATING RADAR, AND SELECT UTILITIES WERE VVH-ED VIA TEST HOLES AS SHOWN ON THE
- 82. BEARINGS SHOWN HEREON ARE BASED ON GPS OBSERVATIONS OF THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983, 2011
- 83. THE COMBINED SCALE FACTOR FROM THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD) TO NORTH AMERICAN DATUM OF 1988 (NAVD) IS 1.000438695.

MAINTENANCE OF TRAFFIC

- 85. THE CONTRACTION PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHT-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN (TCP). THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAWNG RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDE DEPARTMENT OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDE DEPARTMENT OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDE DEPARTMENT OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDE DEPARTMENT OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDE DEPARTMENT OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDE DEPARTMENT OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENT OF THE CURRENT FLORIDE DEPARTMENT OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENT OF THE CURRENT FLORIDE DEPARTMENT OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REPORT OF THE CURRENT FLORIDE DEPARTMENT OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REPORT OF THE APPLICABLE REPORT SECTION 990, SECTION 994, AND FEDERAL HIGHWAY ADMINISTRATION'S THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). A TCP SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.

- IN IT CONTRACTOR TO THE PRE-CURS INCLINE WELLINGS, SIGNS, LIGHTS AND FLAG PERSONS AS REQUIRED BY THE MUTCD AND FDOT STANDARDS/INDICES.

 87. CONTRACTOR TO IT OFFCHIVE ALL MARNING STANDS, SIGNS, LIGHTS AND FLAG PERSONS AS REQUIRED FOR THIS PROJECT IN 1819.

 88. THE CONTRACTOR TO INCLUDE COST FOR OFFCHING ALL PERMITS, LICENSES AND INSURANCE REQUIRED FOR THIS PROJECT IN 1819.

 88. THE CONTRACTOR SHALL USE, BUT ARE NOT LIMITED TO, FORT INDICES 415, 600, 615, 616, AND 621. THE RECOMMENDED FDOT DESIGN STANDARD INDICES ARE
- 89. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE TEMPORARY DRAINAGE. THERE WILL BE NO DIRECT PAY FOR THIS WORK, COSTS SHALL BE INCLUDED IN THE COST OF
- 90. MOTORIZED AND MECHANICAL EQUIPMENT SHALL BE EFFECTIVELY SHIELDED, PADDED OR LOCATED TO MINIMIZE NOISE.
- 91. THE CONTRACTOR WILL NOTIFY ALL EMERGENCY AND RESCUE AGENCIES LOCATED IN THE PROJECT VICINITY 24 HOURS IN ADVANCE OF ANY PROPOSED LANE CLOSURES OR DETUDES.

 ACCESS TO ALL SIDE STREETS AND DRIVEWAYS MIST BE PROVIDED AND MAINTAINED DIDING CONSTRUCTION AT ALL TIMES.
- ACCESS TO ALL SUE STREETS AND DRIVEWAYS MUST BE PROVIDED AND OMNITAINED DEDIFFER OF ONE OF ALL TIMES.

 USE FOOT INDEX NO. 619 FOR TRAFFIC CONTROL MEASURES WHICH CONSTRUCTION BY DEVIREN IN 19 OF RIVEN ON OF ALL TIMES. THE REGULATORY SPEED IN WORK ZONES SHOULD BE AS CLOSE TO NORMAL CONDITIONS AS POSSIBLE, UNLESS NOTED ON THE TRAFFIC CONTROL PLANS.

 THE CONTROLTOR SHALL NOTIFY ALL UTILITY CONCENSIONS OF WORKING NEAR THEIR EXISTING FACILITIES. CONTROL THE STATEMENT SHALL BE RESPONSIBLE FOR TEMPORARY SUPPORT UTILITY POLES AND/OR CORONANDIANO OF SUCH WITH UTILITY COMPANIES.

 CONSTRUCTION SEQUENCES SHALL BE COORDINATED TO PROVIDE POSTIVE DIFFURINGE OF THE TRAVELWAYS AT ALL TIEMS.

- 96. ANY MOT ITEM NOT SPECIFICALLY LISTED UNDER A PARTICULAR PAY ITEM SHALL BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS. THERE SHALL BE NO SEPARATE
- 97. THE MAXIMUM SPACING BETWEEN WARNING DEVICES USED FOR DELINEATION BETWEEN THE TRAVELWAY(S) AND CONSTRUCTION AREA SHALL BE AS PER FDOT STANDARD INDEX 600.
- BY ALL DEFOURS, IF APPROVED BY THE COUNTY, SHALL ADHERE TO THE REQUIREMENTS SET FORTH IN THE MUTCO (LATES EDITION) AND THE FOOT ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST EDITION (800 SERIES), ANY DETOUR RECOMMENDED BY THE CONTRACTOR MUST BE SUBMITTED TO THE COUNTY FOR APPROVAL AT LEAST FOURTEN (14) DAYS PRIOR TO THE START OF CONSTRUCTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COUNTY APPROVAL PRIOR TO IMPLEMENTATION AND FAILURE TO OBTAIN APPROVAL SHALL NOT BE GROUNDS FOR ANY DELAY CLAM FOR TIME OR ADDITIONAL COMPRISATION.

UTILITY CONTACT TABLE

ANTHONY BENITEZ	(941) 708-7450 EXT. 7333
MUKUNDA GOPALAKRISHNA	(941) 749-3500 EXT. 7813
	(941) 748-0747 EXT. 1355
JIM MCLELLAN	(941) 708-6300
ED WATSON	(813) 470-5875
STEVE LOPES	(941) 377-3722
NYLES PETERSON	(941) 723-4425
GREG COKER	(941) 723-4430
DAN SHANAHAN	(941) 342-4006
JAMIE FONES	(863) 767-4654
DENISE HUTTON	(941) 906-6722
TOM WRIGHT	(941) 748-3816 EXT. 21348
VISHAL KAKAAD	(941) 749-3500 EXT. 7812
	1 (800) 432-4770
	MUKUNDA GOPALAKRISHNA JIM MCLELLAN ED WATSON STEVE LOPES NYLES PETERSON GREG COKER DAN SHANAHAN JAME FONES DENISE HUTTON TOM WRIGHT

RECORD DRAWING **COUNTY MAINTAINED FORCE MAIN**



SENIOR ENGINEER	
PROCESS DESIGNER	J. THORPE
PROJECT NUMBER	10171461
	SENIOR ENGINEER PROCESS DESIGNER

PROJECT MANAGER RYAN MESSER P.E.

FL. CERTIFICATE NO. 79332

Manatee County

FM 33A AND FM 36A REPLACEMENT

GENERAL NOTES (2 OF 2)

SCALE NONE

SHEET FILENAME G-103-1.DWG G-103-1 LEGEND: SYMBOLS LEGEND: - NORTH ARV ASB = AIR RELEASE VALVE = ASBESTOS IRON PIPE FOUND R/W RIGHT-OF WAY - INDICATES AVE BFP = AVENUE IRON ROD FOUND = BACKFLOW PREVENTER ND NAIL W/ DISC DIRECTION = BELOW GRADE VAULT = BELOW SURFACE BGV CONCRETE MONUMENT IRON ROD W/ CAP FOUND GRATE INLET = BOTTOM OF STRUCTURE ROS (C) C&G C.L.F. = CALCULATED PID PARCEL IDENTIFICATION MITERED END SECTION = CURB AND GUTTER = CHAIN LINK FENCE STORM MANHOLE ORB OFFICIAL RECORDS BOOK MAILBOX CIP CIR.

> BOLLARD CLEANOUT PINE

WOOD UTILITY POLE CONCRETE UTILITY POLE GUY WIRE

PG PAGE

WATER METER WATER VALVE (S) SANITARY MANHOLE

BACKFLOW PREVENTER COMMUNICATION MARKER UTILITY RISER

UTILITY HANDHOLE TRAFFIC SIGNAL POLE

GAS MARKER

0

0 SIGN

ANTENNA VVH LOCATION

P FIRE HYDRANT

= PROP. PLUG VALVE

= PROP. HORIZONTAL 45° BEND ÞC = PROP. VERTICAL (UP) 45° BEND \bowtie = PROP. VERTICAL (DOWN) 45° BEND 口 = PROP. HORIZONTAL 22.5° BEND Ħ = PROP. VERTICAL (UP) 22.5° BEND

Ħ = PROP. VERTICAL (DOWN) 22.5° BEND

ι = PROP. PLUG Ħ = PROP. REDUCER 凸 = PROP. WYE A

= PROP. AIR RELEASE VALVE

REMOVE AND RESTORE ASPHALT

REMOVE AND RESTORE BRICK PAVERS

REMOVE AND RESTORE CONCRETE

LINETYPE LEGEND:

EXISTING FORCE MAIN EXISTING WATER MAIN EXISTING SANITARY SEWER EXISTING STORM DRAIN EXISTING FENCE RIGHT-OF-WAY ---- EXISTING GRADE OVER PIPE PROPOSED EM - - ALIGNMENT/PIPE CENTER LINE

-///// PLUG AND FILL PIPE

SITE CONTROL:

DESIGNATION	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1141154.50	465580.74	22.56'	IR (LB 7203)
2	1140336.43	465645.62	22.42	IR (LB 7203)
3	1139525 90	465583.00	22.71	IR (LB 7203)

WH TABLE

WH #	NORTHING	EASTING	GRADE ELEVATION	DEPTH TO TOP	TOP OF PIPE	PIPE DIRECTION	SIZE/MATERIAL
WH 1	1138639.96	466322.86	22.19'	5.51'	16.68'	EAST/WEST	14" DIP FM
WH 2	1138655.95	466306.37	21.92'	3.16'	18.76'	NORTH/SOUTH	6" CONC. WM
WH 3	1138642.75	467591.23	18.83'	2.16'	16.67'	NORTH/SOUTH	10" PVC WM
WH 4	1139063.40	467975.78	18.99'	3.80'	15.19'	EAST/WEST	14" DIP FM
WH 5	1140182.62	465574.41	23.06'	4.19'	18.87'	NORTH/SOUTH	8" CIP FM
WH 6	1140936.49	465580.25	22.47'	2.99'	19.48'	NORTH/SOUTH	8" CIP FM
WH 7	1138661.39	467582.78	18.66'	5.58'	13.08'	EAST/WEST	8" CIP FM
WH 8	1138631.25	466988.72	21.29'	3.42'	17.87'	EAST/WEST	6" PVC WM
WH 9	1139814.24	465639.78	22.47'	1.26'	21.21'	EAST/WEST	1" STL WM
WH 10	1139887.36	465570.56	22.43'	4.41'	18.02'	EAST/WEST	6" CONC. ASB WM
WH 11	1140503.28	465578.98	22.60'	3.20'	19.40'	NORTH/SOUTH	8" DIP FM
WH 12	1140655.87	465579.55	22.71'	3.26'	19.45'	NORTH/SOUTH	8" DIP FM
WH 13	1141117.80	465561.32	22.34'	3.70'	18.64'	EAST/WEST	8" DIP WM
WH 14	1139044.28	468187.03	19.00'	3.35'	15.65'	NORTH/SOUTH	5" CONC. ASB WM
WH 15	1139046.76	468020.06	18.62'	3.00'	15.62'	NORTH/SOUTH	4" CONC. ASB WM
WH 16	1139041.24	468556.31	18.52'	2.35'	16.17'	NORTH/SOUTH	4" CONC. ASB WM

RECORD DRAWING **COUNTY MAINTAINED FORCE MAIN**

= VALVE CAP SANITARY = VERIFIED VERTICAL & HORIZONTAL UTILITIES

CAST IRON PIPE = CIRCLE

= CONCRETE

= CONSTRUCT

DRIVEWAY EASTING

ELEVATION

= EXISTING = FIELD

= FINISHED

= FLANGED

= FORCE MAIN

= LINEAR FEET = LIGHT POLE

= MANHOLE = MINIMUM

COMMISSIONER'S BOOK

DUCTILE IRON DUCTILE IRON PIPE

EXPANSION JOINT

= FOUND IRON PIPE = FOUND IRON ROD

FOUND NAIL AND DISK = FUSIBLE POLYVINYL CHLORIDE PIPE = HORIZONTAL DIRECTIONAL DRILL

= MAILBOX = MITERED END SECTION

= OFFICIAL RECORD BOOK = PER PLAT

POWER POLE PROFESSIONAL LAND SURVEYOR

= KIGHT-OF-HAN = SANITARY = SECTION = SET MAG NAIL AND DISK LB6992

TELEPHONE/COMMUNICATIONS

= POLYVINYL CHLORIDE = REINFORCED CONCRETE PIPE

= PROFESSIONAL SURVEYOR AND MAPPER

= MECHANICAL JOINT = WATER METER

= NORTHING = NOT TO SCALE

PLAT BOOK

PROPOSED

= REQUIRED = RESTRAINED JOINT

= RIGHT-OF-WAY

= SERVICE BOX

= TOP OF PIPE

= WATER MAIN = WIRE PULL BOX

= SIDEWALK

= UNKNOWN

= 316 STAINLESS STEEL = STATION = STFFI

= PAGE

= EDGE OF PAVEMENT = ELLIPTICAL REINFORCED CONCRETE PIPE

FOUND CONCRETE MONUMENT

= HIGH DENSITY POLYETHYLENE PIPE = INVERT = LICENSED BUSINESS

CONC.

CONC

CONST

DI

E: EJ EL.

DWY.

EOP ERCP

FXIST

(F) FCM

FIN

FIP FIR

FLG'D

F.N&D

FPVC.

HDD

HDPE LB

LF LP

MBX

MH MIN.

MJ MW

0.R

(P) P.B.

PG.

PP PLS

PROP

PSM

PVC RCP

RJ

R/W

SAN. SEC. SMND

SST STA:

STI S/W

TÉLE

TOP TRAV UNK.

VCS

VVH

REQ'D.

MIN.T.S.

M.E.S.

			PROJECT MANAGER	RYAN MESSER, P.E.
AS-	-BUILT (03-03-23	SENIOR ENGINEER	
			PROCESS DESIGNER	J. THORPE
	A3 (0A0)			
	03/2021	100% SUBMITTAL		
2	11/2020	75% SUBMITTAL		
1	07/2019	30% SUBMITTAL		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10171461
•			•	•

FL. CERTIFICATE NO. 79332



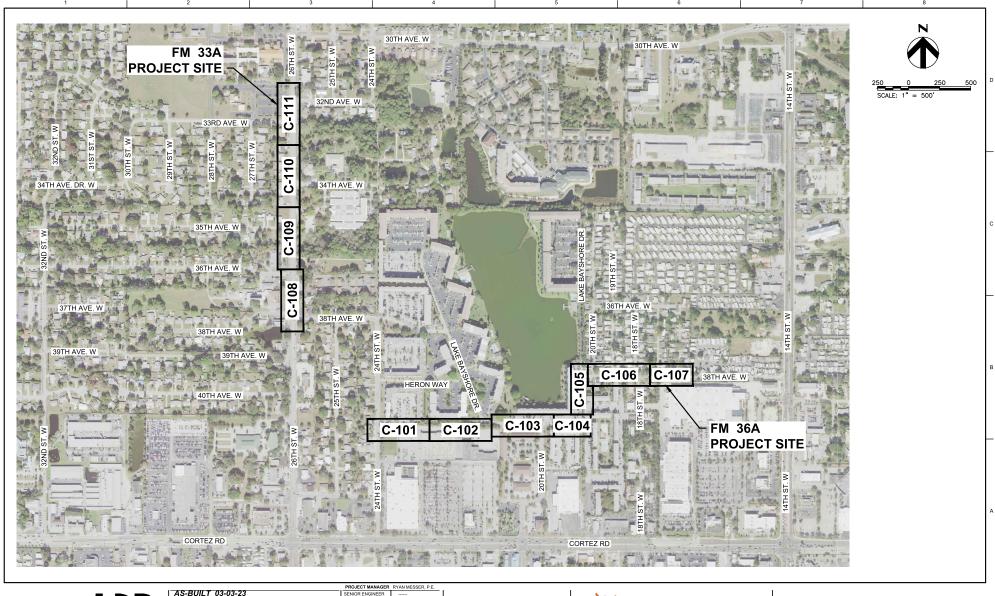
LEGEND AND VVH INFORMATION

FILENAME G-104.DWG SCALE NONE

G-104

SHEET

FM 33A AND FM 36A REPLACEMENT



RYAN MESSER, P.E. FL. CERTIFICATE NO. 79332



			PROJECT MANAGER	RYAN MESSER, P.E.
AS-	BUILT	03-03-23	SENIOR ENGINEER	
			PROCESS DESIGNER	J. THORPE
	AT /0404			
3	03/2021	100% SUBMITTAL 75% SUBMITTAL		
-			-	
_1	07/2019	30% SUBMITTAL		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10171461

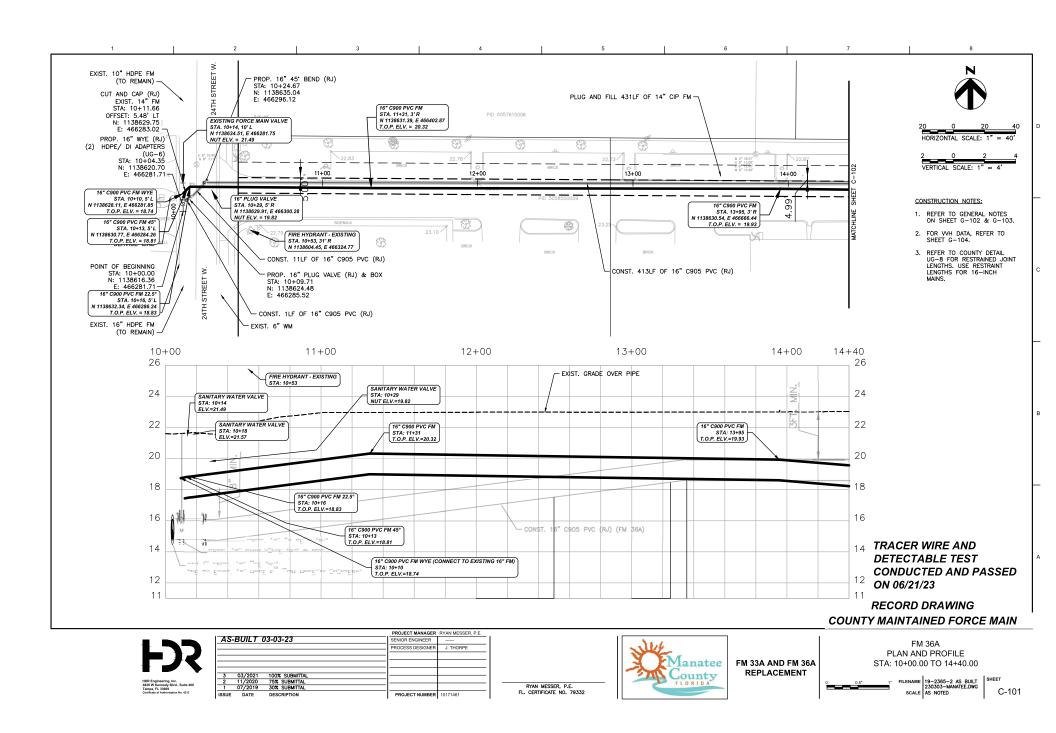
Manatee FM 33A AND FM 36A County

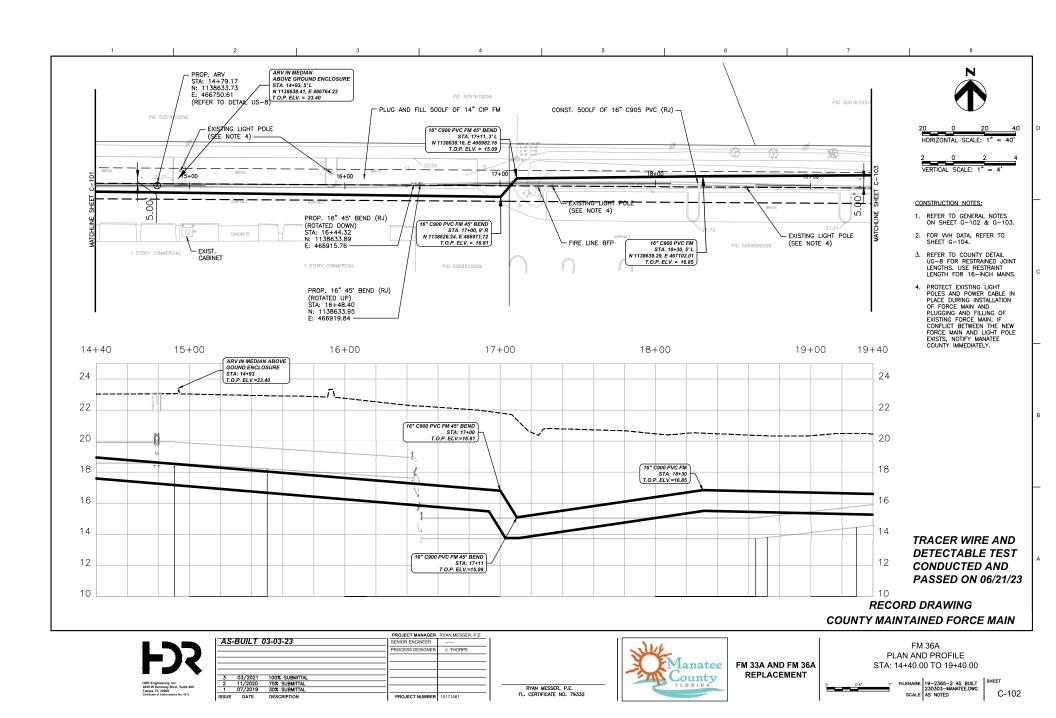
REPLACEMENT

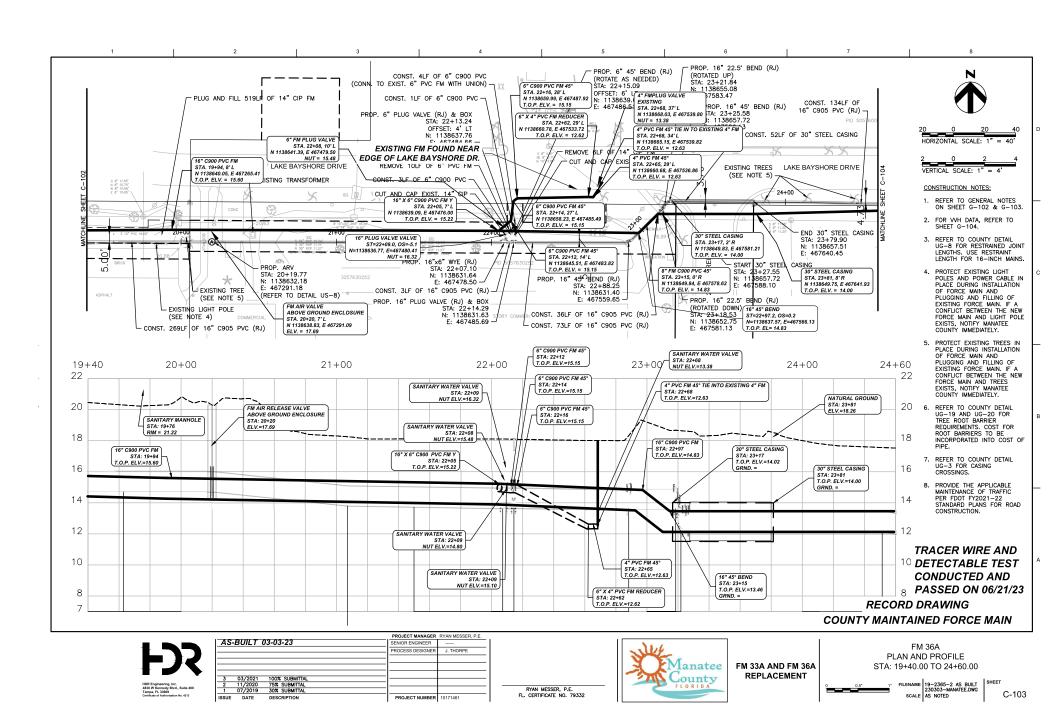
DRAWING KEY SHEET

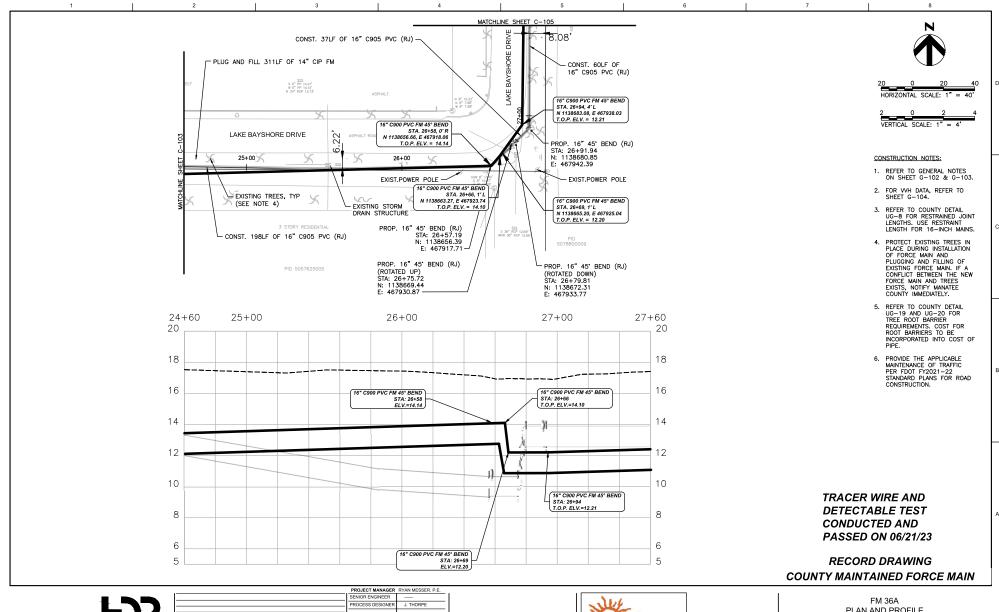
FILENAME G-105.DWG SCALE AS NOTED

G-105











			PROJECT MANAGER	RYAN MESSER, P.E.
			SENIOR ENGINEER	
			PROCESS DESIGNER	J. THORPE
			-	
	3/2021	100% SUBMITTAL	_	
	1/2020	75% SUBMITTAL	l —	
1 0	7/2019	30% SUBMITTAL		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10171461

Manatee County FL. CERTIFICATE NO. 79332

FM 33A AND FM 36A REPLACEMENT

PLAN AND PROFILE STA: 24+60.00 TO 27+60.00

FILENAME 19-2365-2 AS BUILT 230303-MANATEE.DWG C

CONST. 66LF OF 16" C905 PVC (RJ) -PROP. 16" 45" BEND (RJ) STA: 30+62.18 N: 1139051.08 E: 467944.25 CONST. 238LF OF 16" C905 PVC (RJ) -PROP. 16" 22.5" BEND (RJ) (ROTATED UP) STA.: 30+49.43 PROP. ARV STA: 29+41.27 N: 1139038.33 E: 467944.16 -N: 1138930.18 E: 467943.64 - CONST. 10LF OF 16" C900 PVC (RJ) (REFER TO DETAIL US-8) PROP. 16" 22.5" BEND (RJ) 16" C900 PVC FM 45° BEND STA. 30+61, 1' L N 1139049.82, E 467943.08 (ROTATED DOWN) STA: 30+43.86 STA, 29+97, 1' R VERTICAL SCALE: 1 NEW 2" GATE VALVE N 1138985.41, E 467945.08 T.O.P. ELV. = 13.44 E: 467944.15 NUT = 15.22 STA 29+38 2' F LAKE BAYSHORE DRIVE N 1138927.11, E 467945.22 NUT = 16.98 LAKE BAYSHORE DRIVE 00+0 CONSTRUCTION NOTES: PROP. 16" 45" BEND (RJ) REFER TO GENERAL NOTES ON SHEET G-102 & G-103. STA: 30+72.66 N: 1139058.47 FM AIR RELEASE VALVE ABOVE GROUND ENCLUSEE 带 E: 467951.67 00 STA. 29+37, 7' R N 1138925.67, E 467950.19 FOR VVH DATA, REFER TO SHEET G-104. 05 PROP. 16" PLUG VALVE (RJ) & BOX 16" C900 PVC FM 45° BEND POWER 雅 STA. 30+77, 1'L N 1139059.86, E 467956.10 T.O.P. ELV. = 12.48 ELV. = 16.14 STA: 29+98.45 N: 1138987.36 REFER TO COUNTY DETAIL
 UG-8 FOR RESTRAINED JOINT
 LENGTHS. USE RESTRAINT CONST. 43LF OF EXISTING TREES, TYP F: 467943.93 16" C905 PVC (RJ) (SEE NOTE 4) 5.00 LENGTH FOR 16-INCH MAINS. MIM: 4. PROTECT EXISTING TREES IN PLACE DURING INSTALLATION OF FORCE MAIN AND PLUGGING AND FILLING OF EXISTING FORCE MAIN. IF A PLUG AND FILL 359LF OF 14" CIP FM MATCHLINE SHEET C-106 POWER POLE CONFLICT BETWEEN THE NEW FORCE MAIN AND TREES EXISTS, NOTIFY MANATEE COUNTY IMMEDIATELY. 5. REFER TO COUNTY DETAIL UG-19 AND UG-20 FOR TREE ROOT BARRIER 31+0031+20 27 + 6028+00 29+00 30 + 00REQUIREMENTS. COST FOR ROOT BARRIERS TO BE INCORPORATED INTO COST OF 22 22 6. PROVIDE THE APPLICABLE MAINTENANCE OF TRAFFIC PER FDOT FY2021-22 STANDARD PLANS FOR ROAD 20 20 16" C900 PVC FM 45° BEND SANITARY WATER VALVE STA: 30+77 T.O.P. ELV.=12.48 SANITARY WATER VALVE STA: 29+38 STA: 29+97 18 18 FM AIR RELEASE VALVE 16 16 ABOVE GROUND ENCLUSEE STA: 29+37 ELV.=16.14 14 14 12 TRACER WIRE AND 16" C900 PVC FM 45° BEND STA: 30+61 10 10 **DETECTABLE TEST CONDUCTED AND** PASSED ON 06/21/23 8 8 RECORD DRAWING **COUNTY MAINTAINED FORCE MAIN** PROJECT MANAGER RYAN MESSER P.E. FM 36A

FL. CERTIFICATE NO. 79332



AS-	·BUILT (03-03-23	SENIOR ENGINEER	
			PROCESS DESIGNER	J. THORPE
3	03/2021	100% SUBMITTAL		
2	11/2020	75% SUBMITTAL		
1	07/2019	30% SUBMITTAL		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10171461

Manatee

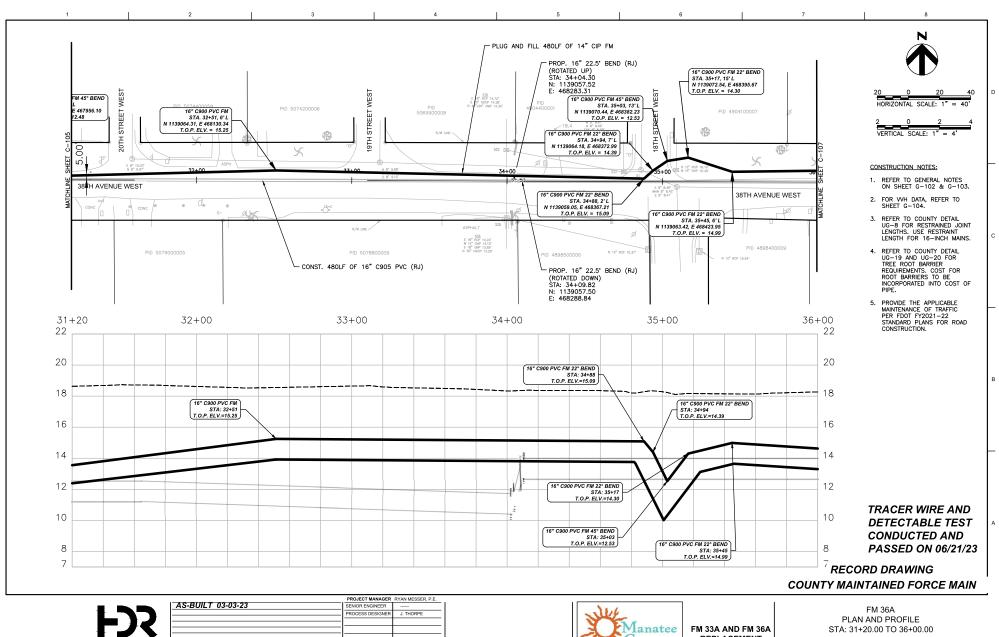
FM 33A AND FM 36A REPLACEMENT FM 36A PLAN AND PROFILE STA: 27+60.00 TO 31+20.00

0.5" 1"

LENAME 19-2365-2 AS BUILT 230303-MANATEE.DWG SCALE AS NOTED

C-105

SHEET



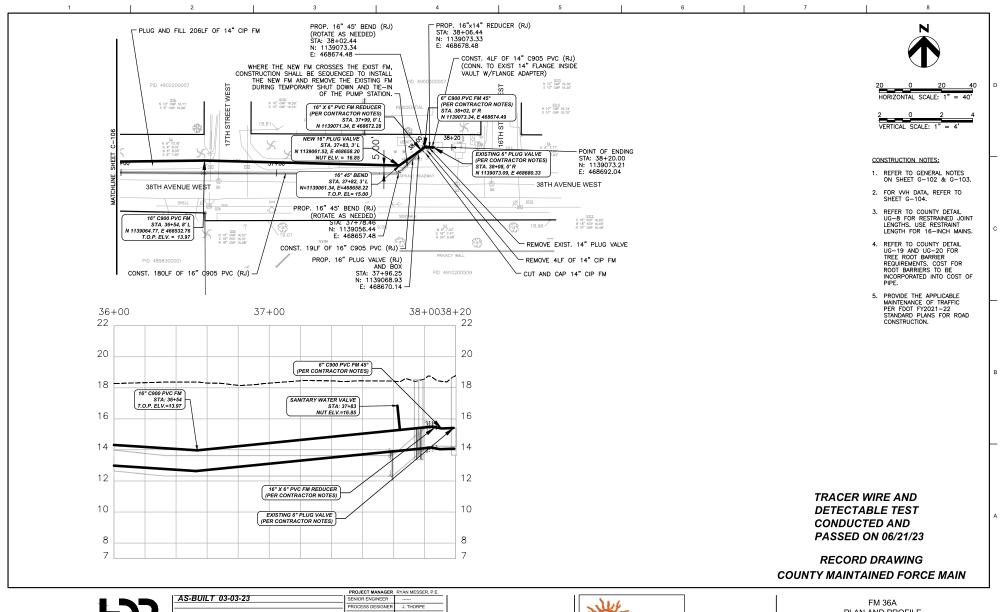


	SENIOR ENGINEER PROCESS DESIGNER	J. THORPE
	PROCESS DESIGNER	J. THORPE
		l
B 67/0004 1000 0		
3 03/2021 100% SUBMITTAL — 2 11/2020 75% SUBMITTAL		
1 07/2019 30% SUBMITTAL		
ISSUE DATE DESCRIPTION	PROJECT NUMBER	10171461



REPLACEMENT

SCALE AS NOTED





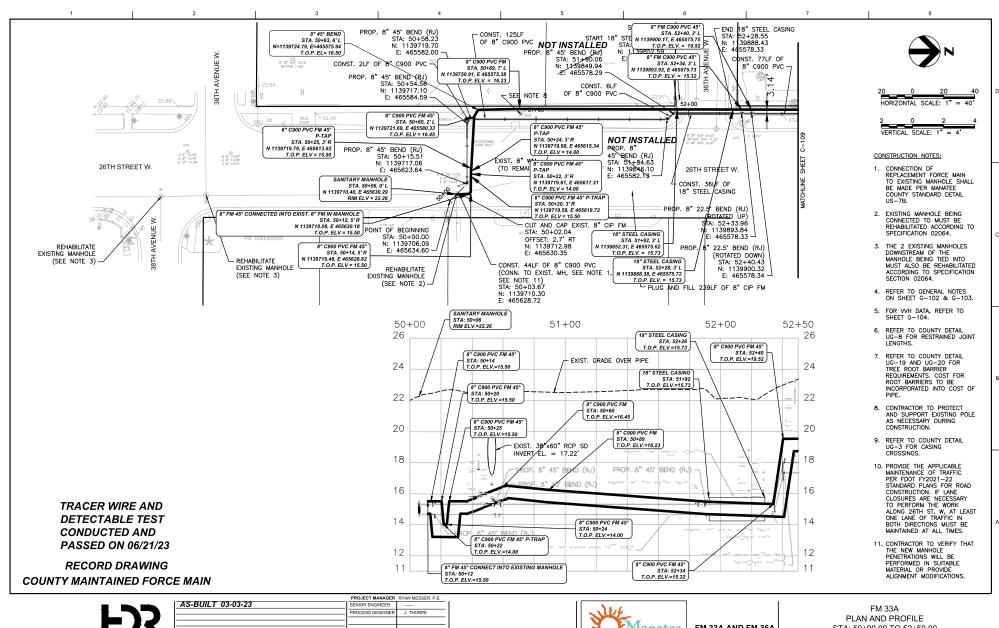
AS-	BUILT (03-03-23	SENIOR ENGINEER	
			PROCESS DESIGNER	J. THORPE
3	03/2021	100% SUBMITTAL		-
2	11/2020	75% SUBMITTAL		
1	07/2019	30% SUBMITTAL		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10171461

Manatee

FM 33A AND FM 36A REPLACEMENT FM 36A PLAN AND PROFILE STA: 36+00.00 TO 38+20.00

0.5" 1"

FILENAME 19-2365-2 AS BUILT 230303-MANATEE.DWG AS NOTED





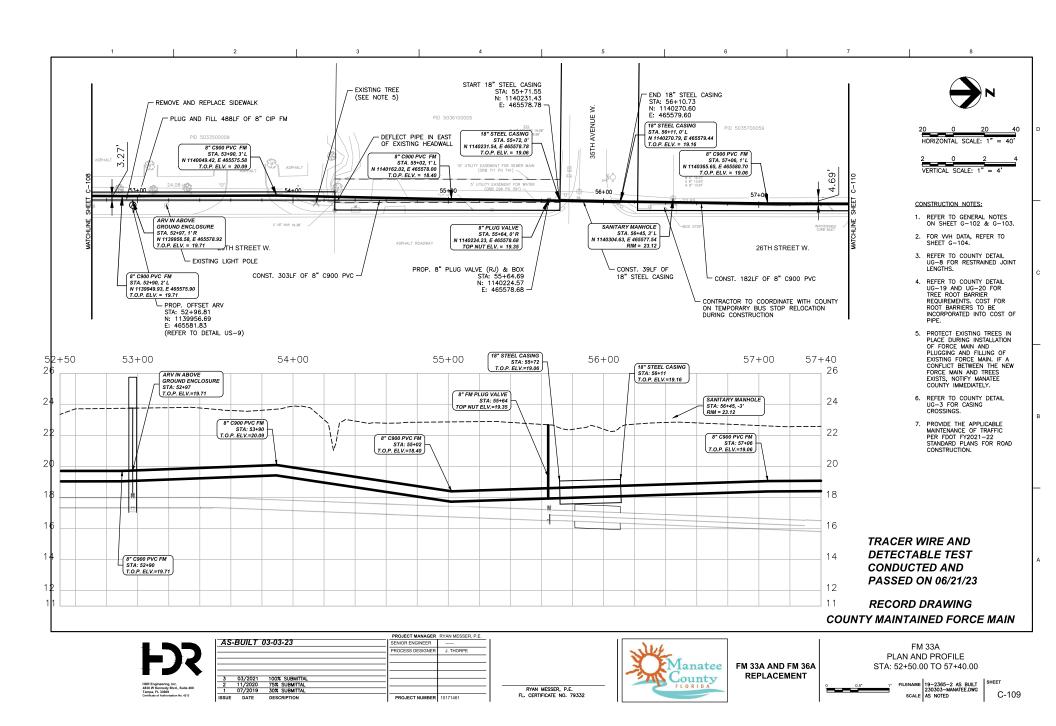
			PROJECT MANAGER	RYAN MESSER, P.E.
AS-	BUILT (03-03-23	SENIOR ENGINEER	
			PROCESS DESIGNER	J. THORPE
=	67/0604			
	03/2021	100% SUBMITTAL		
2	11/2020	75% SUBMITTAL		
1	07/2019	30% SUBMITTAL		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10171461

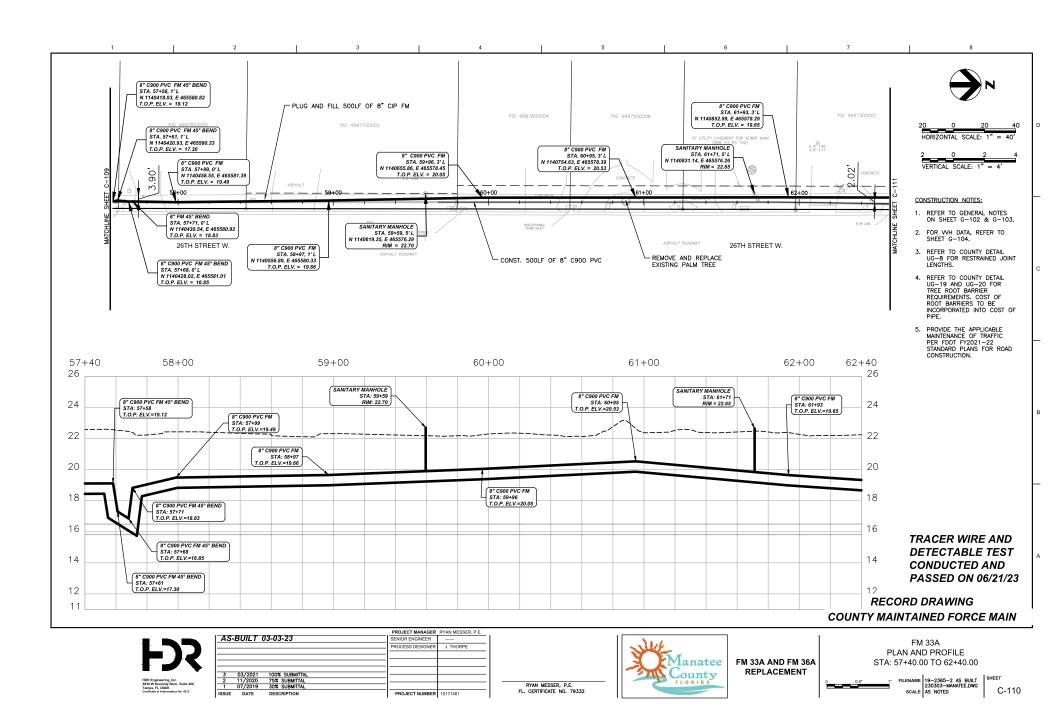


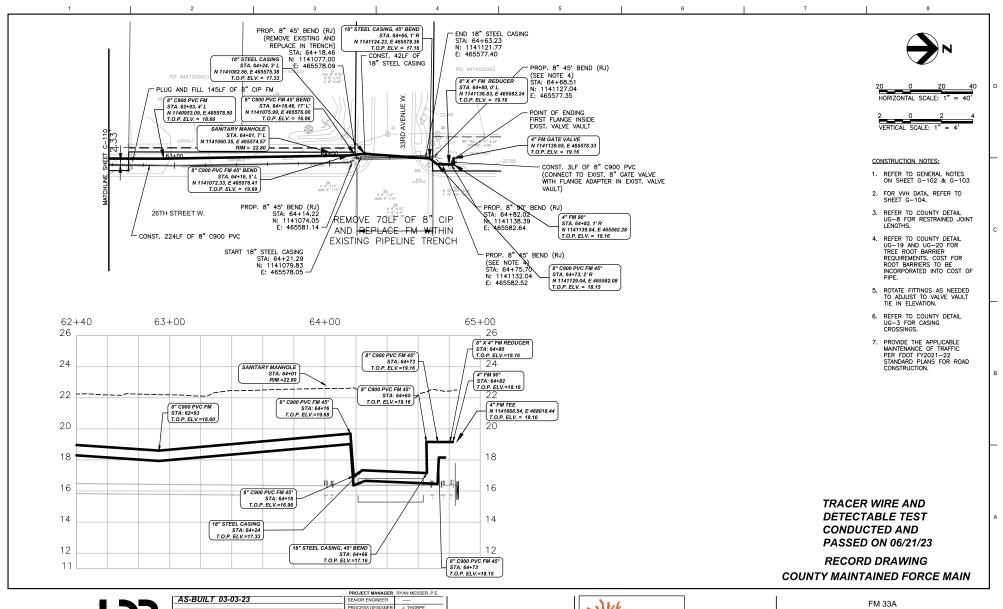
FM 33A AND FM 36A REPLACEMENT

STA: 50+00.00 TO 52+50.00

SCALE AS NOTED









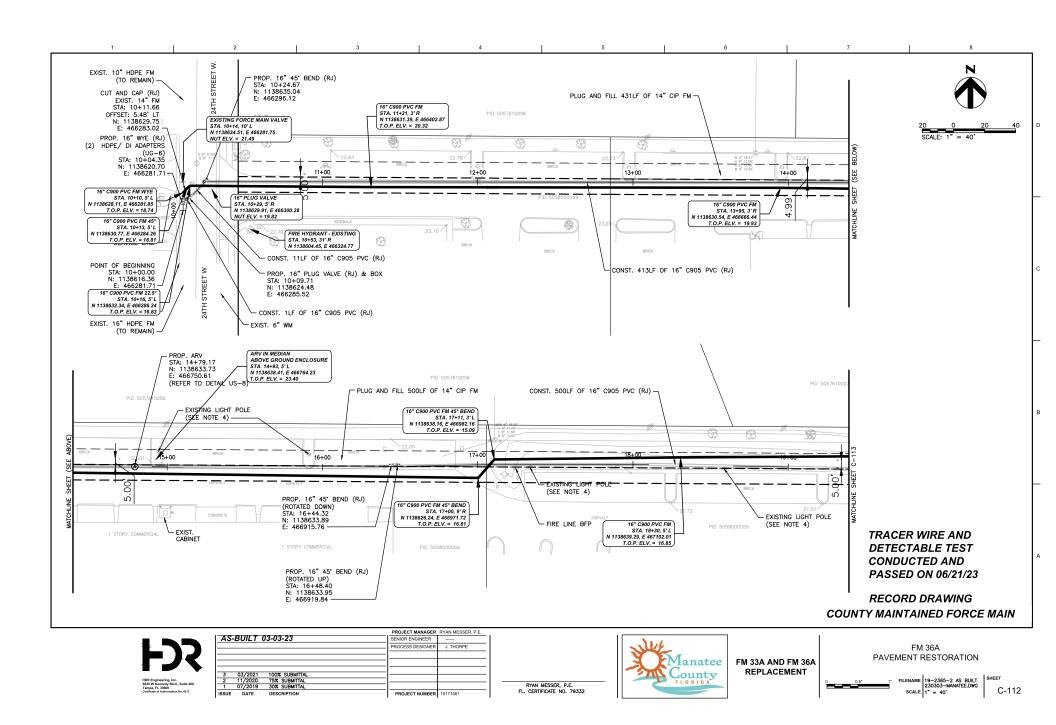
AS-	BUILT (03-03-23	SENIOR ENGINEER
			PROCESS DESIGNER J. THORPE
3	03/2021	100% SUBMITTAL	
2	11/2020	75% SUBMITTAL	
1	07/2019	30% SUBMITTAL	
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER 10171461

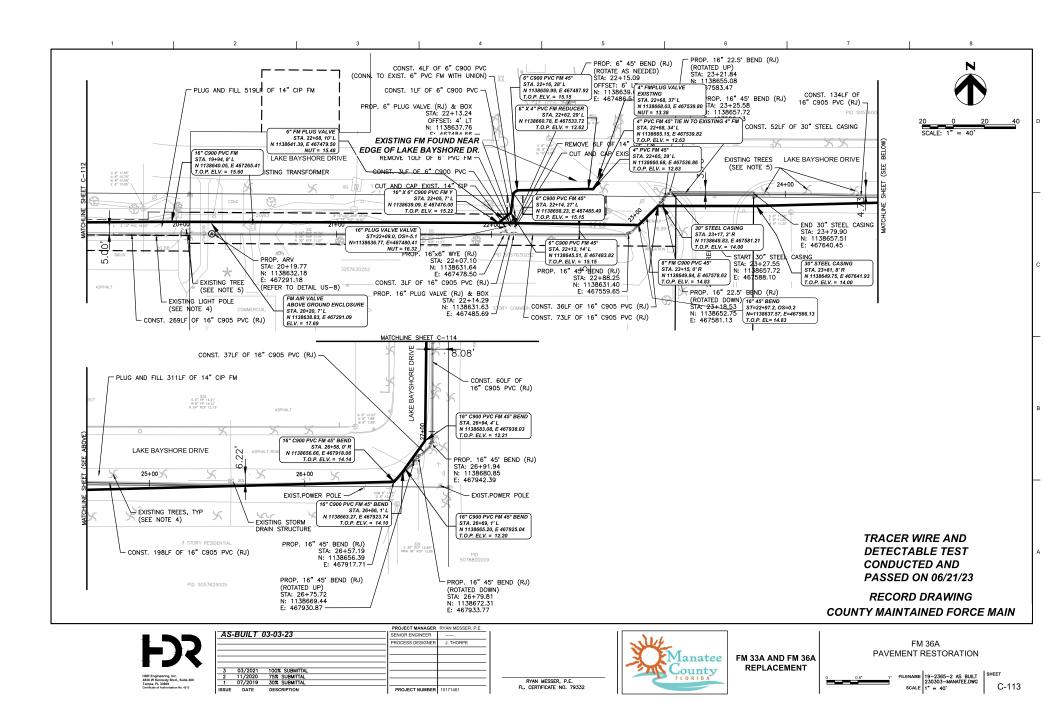


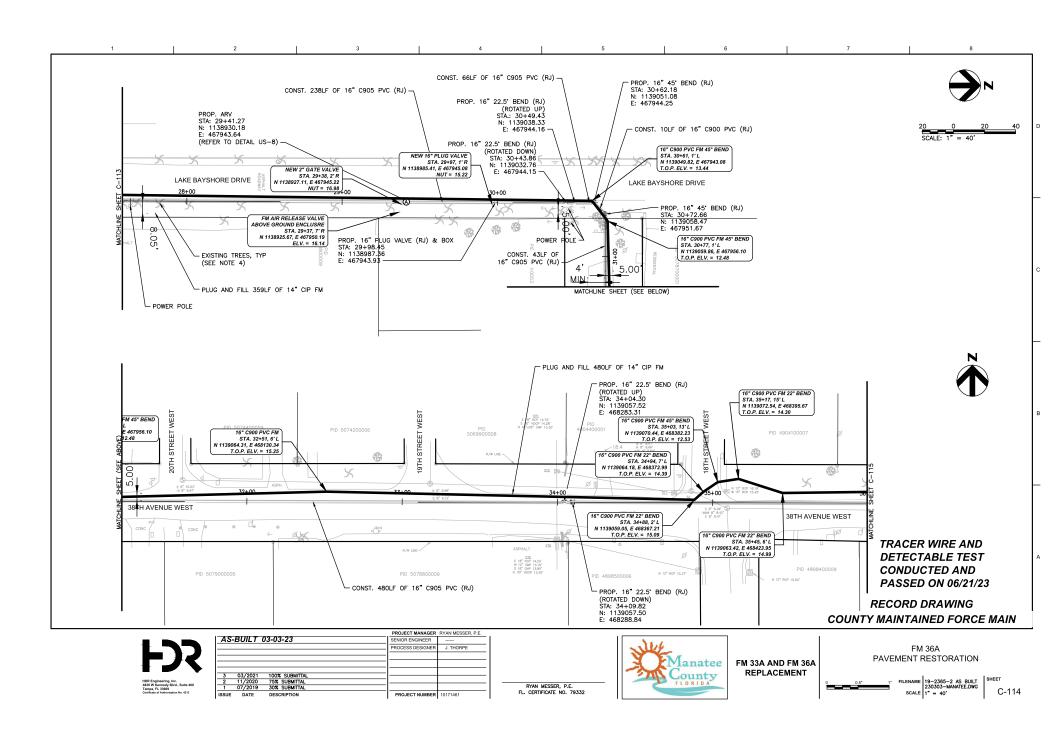
FM 33A AND FM 36A REPLACEMENT FM 33A PLAN AND PROFILE STA: 62+40.00 TO 64+85.00

0.5" 1"

FILENAME 19-2365-2 AS BUILT 230303-MANATEE.DWG AS NOTED







PROP. 16" 45" BEND (RJ) (ROTATE AS NEEDED) STA: 38+02.44 N: 1139073.34 PROP. 16"x14" REDUCER (RJ) PLUG AND FILL 206LF OF 14" CIP FM STA: 38+06.44 N: 1139073.33 E: 468678.48 E: 468674.48 -CONST. 4LF OF 14" C905 PVC (RJ) (CONN. TO EXIST 14" FLANGE INSIDE WHERE THE NEW FM CROSSES THE EXIST FM, WHERE THE NEW FM CRUSSES THE EXIST FM,
CONSTRUCTION SHALL BE SEQUENCED TO INSTALL
THE NEW FM AND REMOVE THE EXISTING FM
DURING TEMPORARY SHUT DOWN AND TIE-IN
OF THE PUMP STATION. -VAULT W/FLANGE ADAPTER) PID 4902200007 17TH STREET WEST 6" C900 PVC FM 45° (PER CONTRACTOR NOTES) STA. 38+02, 0' R N 1139073.34, E 468674.49 N 10" CMP 16.71' S 8" CMP 16.66" 16" X 6" PVC FM REDUCER (PER CONTRACTOR NOTES) STA. 37+99, 0'L N 1139071.34, E 468672.28 38+20 STA. 37+83, 3' L N 1139061.52. E 468658.20 POINT OF ENDING STA: 38+20.00 N: 1139073.21 EXISTING 6" PLUG VALVE Ŋ, (PER CONTRACTOR NOTES) STA. 38+08, 0' R N 1139073.09, E 468680.33 16" 45° BEND STA. 37+82, 3' L N=1139061.34, E=468658.22 T.O.P. EL= 15.00 38TH AVENUE WEST 38TH AVENUE WEST PROP. 16" 45" BEND (RJ) (ROTATE AS NEEDED) 16" C900 PVC FM SIA: 37+78.46 N: 1139056.44 STA. 36+54, 8' L N 1139064.77, E 468532.76 T.O.P. ELV. = 13.97 E: 468657.48 REMOVE EXIST. 14" PLUG VALVE CONST. 19LF OF 16" C905 PVC (RJ) PROP. 16" PLUG VALVE (RJ) REMOVE 4LF OF 14" CIP FM AND BOX STA: 37+96.25 N: 1139068.93 E: 468670.14 CONST. 180LF OF 16" C905 PVC (RJ) -CUT AND CAP 14" CIP FM

RYAN MESSER, P.E. FL. CERTIFICATE NO. 79332

TRACER WIRE AND **DETECTABLE TEST CONDUCTED AND** PASSED ON 06/21/23

RECORD DRAWING COUNTY MAINTAINED FORCE MAIN



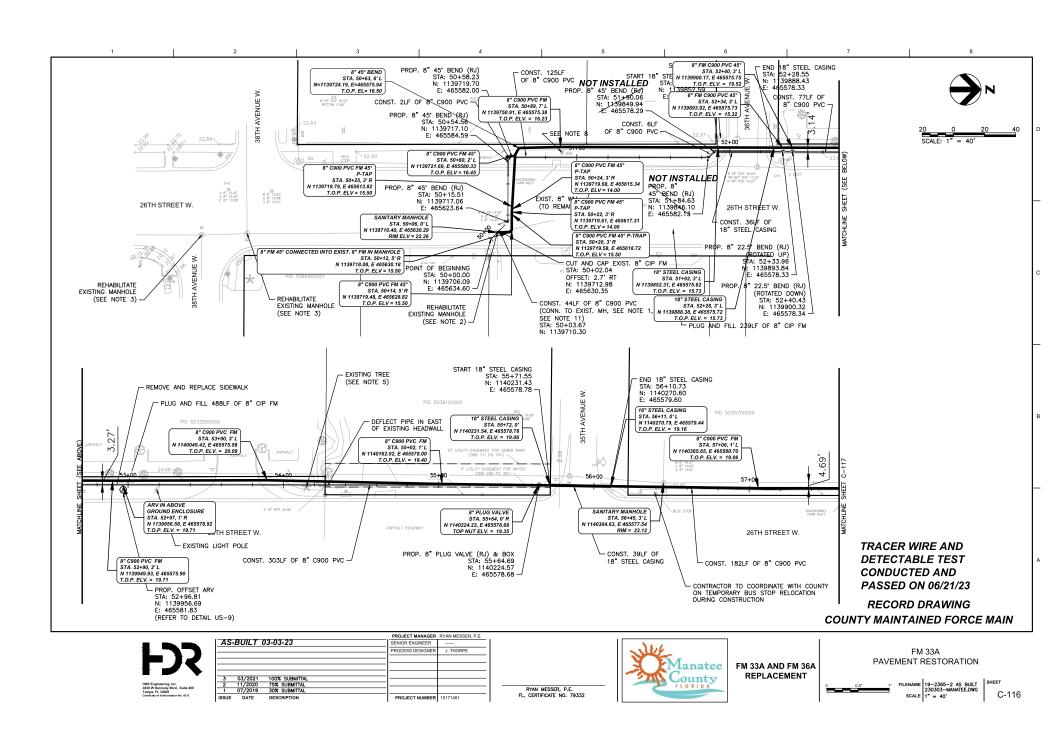
		PROJECT MANAGER	RYAN MESSER, P.E.
AS-BUILT 03	3-03-23	SENIOR ENGINEER	
		PROCESS DESIGNER	J. THORPE
3 03/2021	100% SUBMITTAL		
	75% SUBMITTAL		
1 07/2019	30% SUBMITTAL		
ISSUE DATE	DESCRIPTION	PROJECT NUMBER	10171461

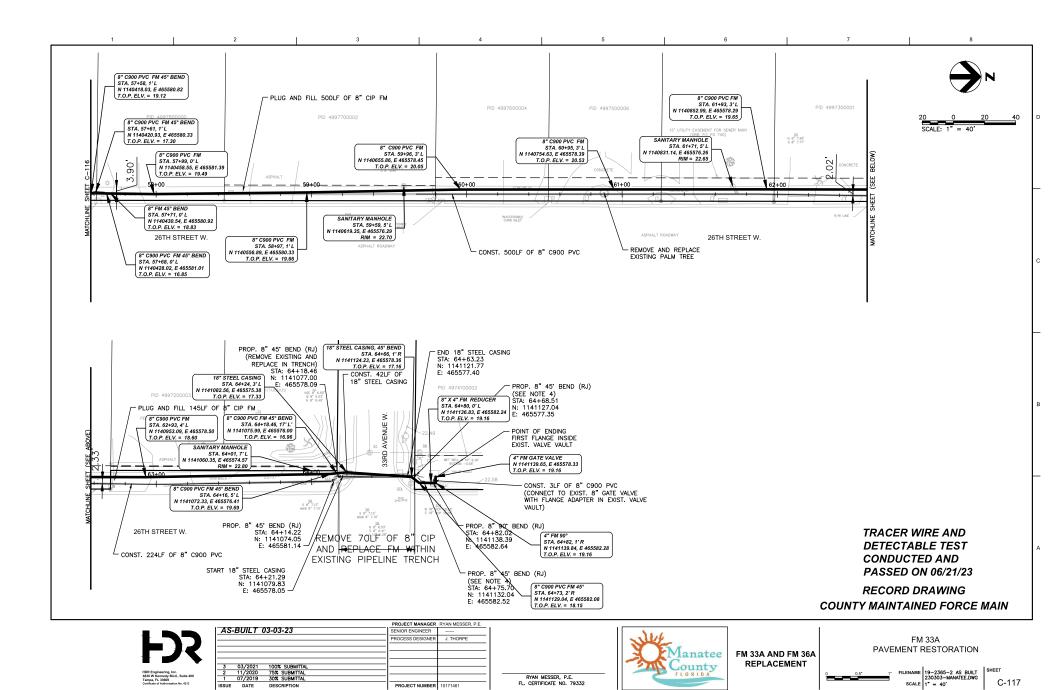
Manatee County

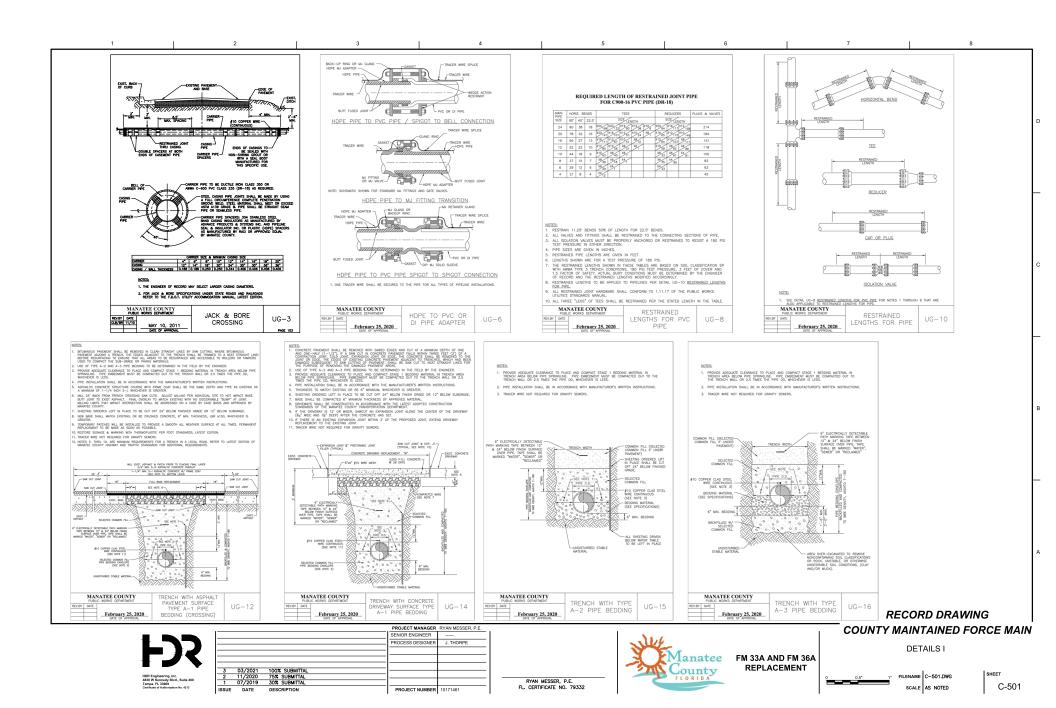
FM 33A AND FM 36A REPLACEMENT

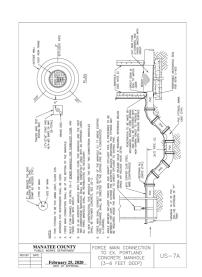
FM 36A PAVEMENT RESTORATION

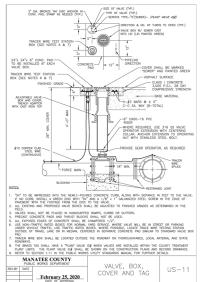
FILENAME 19-2365-2 AS BUILT 230303-MANATEE.DWG C

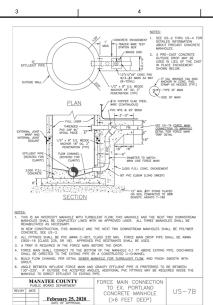


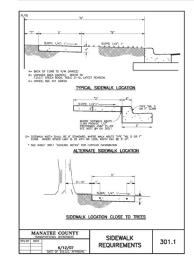


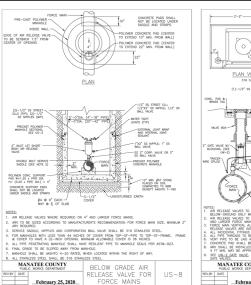


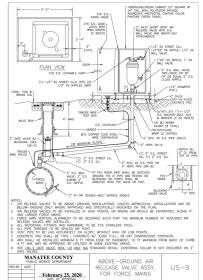












1. US-9 AMENDED, HEIGHT FOR ENCLOSURE TO BE 36-INCH MINIMUM IN LIEU OF HOTED 24-INCH.

RECORD DRAWING COUNTY MAINTAINED FORCE MAIN



			PROJECT MANAGER	RYAN MESSER, P.E.
			SENIOR ENGINEER	
			PROCESS DESIGNER	J. THORPE
-	03/2021	100% SUBMITTAL		
2	11/2020	75% SUBMITTAL		
1	07/2019	30% SUBMITTAL		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10171461

Manatee FM 33A AND FM 36A County

FL. CERTIFICATE NO. 79332

February 25, 2020

REPLACEMENT

DETAILS II

FILENAME C-502.DWG SCALE AS NOTED

SHEET C-502