

CONSTRUCTION PLANS FOR BRADENTON BEACH GRAVITY SEWER

MANATEE COUNTY, FLORIDA

JULY 2021

MANATEE COUNTY PROJECT #6105280



PROJECT TEAM:

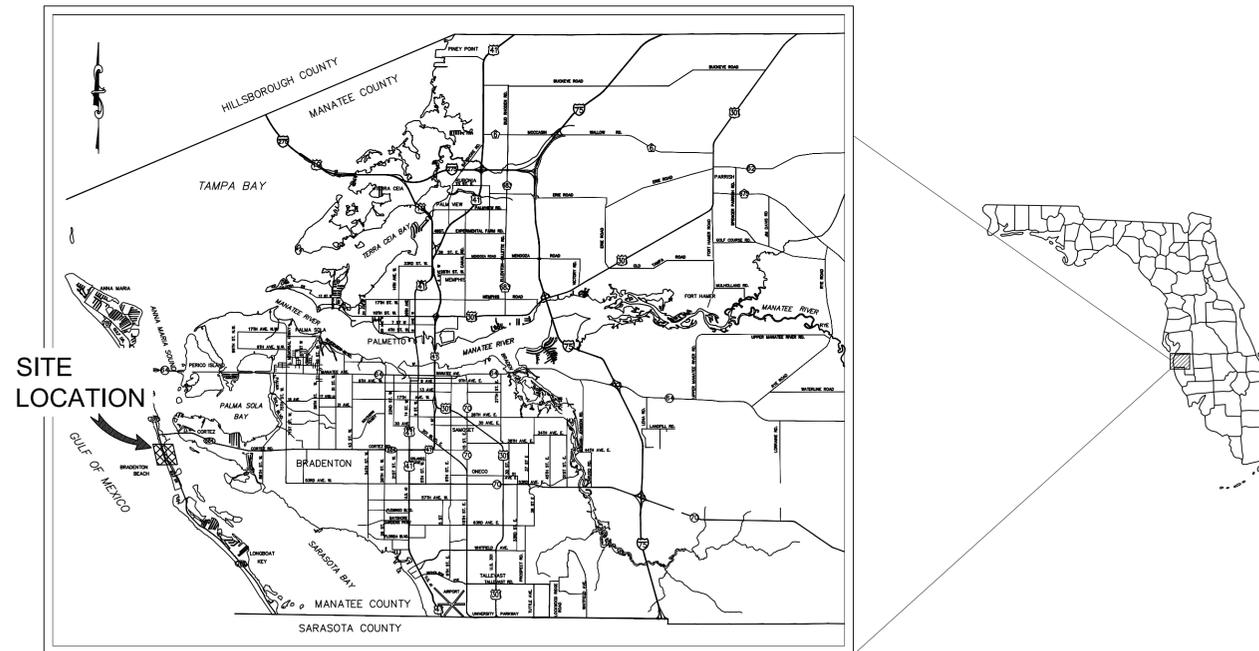
OWNER:
MANATEE COUNTY
1022 26TH AVE. E.
BRADENTON, FL 34208
CONTACT: ALEX GONZALEZ, P.E.
941-708-7450 EXT. 7338

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

SURVEY:
HYATT SURVEY SERVICES, INC.
2012 LENA ROAD
BRADENTON, FL 34211
CONTACT: JOHN MATTHEWS, PM
491-812-2805

GEOTECH:
ARDAMAN & ASSOCIATES, INC.
78 SARASOTA CENTER BOULEVARD
SARASOTA, FL 34240
CONTACT: JERRY H. KUEHN, P.E.
941-922-3526

SHEET LIST TABLE	
Sheet Number	Sheet Title
G-01	COVER SHEET
G-02	GENERAL NOTES
G-03	SURVEY & SUE NOTES
G-04	KEYSHEET
G-05	CONSTRUCTION PHASING PLAN
G-06	EXISTING SANITARY SEWER GROUT & DEMOLITION PLAN
G-07	SERVICE LATERAL CONSTRUCTION I
G-08	SERVICE LATERAL CONSTRUCTION II
C-01	GULF DRIVE S [STA. 147+25-142+50]
C-02	GULF DRIVE S [STA. 142+50-137+33]
C-03	GULF DRIVE S [STA. 137+33-133+00]
C-04	GULF DRIVE S [STA. 133+00-128+36]
C-05	13TH STREET S [STA. 200+00-204+00]
C-06	12TH STREET S [STA. 300+00-304+00]
C-07	11TH STREET S [STA. 400+00-405+00]
C-08	10TH STREET S [STA. 500+00-504+50]
C-09	9TH STREET S [STA. 600+00-604+50]
C-10	8TH STREET S [STA. 700+00-705+25]
C-11	7TH STREET S [STA. 800+00-804+95]
C-12	6TH STREET S [STA. 900+00-904+54]
C-13	SOUTH 13TH STREET LATERAL
C-14	MANHOLE DETAILS
D-01	DETAILS
D-02	DETAILS
D-03	DETAILS



PROJECT VICINITY MAP
N.T.S.

BID SET

PREPARED BY
Kimley»Horn

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
100 2ND AVENUE SOUTH, SUITE 105-N
ST. PETERSBURG, FL 33701
PHONE: (727) 647-2800
WWW.KIMLEY-HORN.COM CA 00000696

UTILITY CONTACTS:

FRONTIER COMMUNICATIONS TONI CANNON 3712 W WALNUT ST TAMPA, FL 33607 813-875-1014	MANATEE COUNTY KATHY MCMAHON 4520- 66TH STREET W BRADENTON, FL 34210 941-792-8811 EXT. 5002
CHARTER COMMUNICATIONS DAVID AVILA 700 CARILLON PARKWAY, STE 6 ST. PETERSBURG, FL 33716 727-329-2841	TECO PEOPLES GAS JOAN DOMING 8416 PALM RIVER ROAD TAMPA, FL 33619 813-275-3783
MCI (VERIZON) JAMES BARRA 7000 WESTON PARKWAY CARY, NC 27513-2119 469-886-4091	FLORIDA POWER & LIGHT (FIBER) GREG COKER 941-704-9087
BLACK AND VEATCH TAMPA (FIBER) KEN SOULE 5206 EAGLE TRAIL DRIVE TAMPA, FL 33634 813-539-2274	

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

ADDENDUM #1	DATE	BY
	7/16/2021	MAS
No.	REVISIONS	

THIS DOCUMENT IS PROTECTED BY SECTION 106 OF THE "UNITED STATES COPYRIGHT ACT". REPRODUCTION OR ALTERATION OF THIS DOCUMENT OR THE INFORMATION CONTAINED HEREON BY ANY MEANS WHATSOEVER IS STRICTLY PROHIBITED WITHOUT THE PRIOR WRITTEN CONSENT OF KIMLEY-HORN AND ASSOCIATES, INC. CONSENT IS HEREBY GRANTED SPECIFICALLY TO GOVERNMENTAL AGENCIES TO REPRODUCE THIS DOCUMENT IN COMPLIANCE WITH F.S. CHAPTER 119.

MICHAEL A. SEMAGO, P.E.
FLORIDA LICENSE NUMBER:
87501

DATE JULY 2021
PROJECT NO. 148400056
SHEET NUMBER G-01

DATE: BY:

This document, together with the concepts and designs presented herein, is an instrument of service to be used only for the specific purpose and client for which it was prepared. Release of any engineer's reliance on this document without written authorization and signature by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

- GENERAL**
- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGER DIVISION. THE PROJECT MANAGER IS: ALEX GONZALEZ, P.E. AND CAN BE REACHED AT (941) 708-7450 X7338
 - IF THE CONTRACTOR WANTS A SITE VISIT PRIOR TO BIDDING, THESE SHALL BE ARRANGED THROUGH THE COUNTY'S PURCHASING DIVISION.
 - ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANATEE COUNTY PUBLIC WORKS STANDARDS UTILITIES STANDARDS MANUAL AND HIGHWAY & TRAFFIC STANDARDS MANUAL AND/OR FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" UNLESS OTHERWISE INDICATED ON THE PLANS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS AND REQUIREMENTS OF ALL PERMITS AND ALL GOVERNING FEDERAL, STATE, AND LOCAL AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS THAT ARE NOT PROVIDED IN THE BID DOCUMENTS, AT NO ADDITIONAL COST TO THE OWNER.
 - THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
 - 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.
 - THE CONTRACTOR SHALL PROVIDE CERTIFIED RECORD DRAWINGS AS OUTLINED IN THE SPECIFICATIONS. RED-LINE DRAWINGS SHALL BE CURRENT WITH EACH PAY APPLICATION SUBMITTED AND WILL BE CHECKED AS PART OF THE PAY APPLICATION REVIEW PROCESS. PAYMENT WILL NOT BE MADE TO CONTRACTOR WITHOUT APPROVED RED-LINE DRAWINGS. THE MOST CURRENT SET OF RED-LINE DRAWINGS SHALL ALSO BE BROUGHT TO EACH MONTHLY PROGRESS MEETING.
 - THE CONTRACTOR SHALL INCLUDE IN HIS BID: DEWATERING PUMPING EQUIPMENT, PUMPS, FITTINGS, LABOR, ETC. AS NECESSARY, BASED ON METHOD AND SEQUENCE OF CONSTRUCTION TO COMPLETE ALL WORK WHILE MAINTAINING SEWER SERVICE OPERATIONS AT ALL TIMES.
 - THE CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER WITH A DETAILED CONSTRUCTION PHASING PLAN BASED ON THE CONNECTION SEQUENCING ON SHEET 6-05. FOR APPROVAL PRIOR TO BEGINNING CONSTRUCTION, EXISTING FORCE MAIN AND GRAVITY SEWER SHALL REMAIN IN SERVICE UNTIL ALL CONNECTIONS TO THE EXISTING LIFT STATION ARE CONSTRUCTED.
 - ALL PROPOSED WORK SHALL BE COORDINATED WITH MANATEE COUNTY UTILITIES DEPARTMENT AT LEAST TWO WEEKS IN ADVANCE OF PROPOSED CONSTRUCTION.
 - THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS CONFORMING TO MANATEE COUNTY'S LATEST STANDARDS, TO THE ENGINEER FOR REVIEW OF ALL PIPE CONNECTIONS, TRANSITIONS, AND SPECIAL APPURTENANCES PRIOR TO FABRICATION OR DELIVERY TO THE JOB SITE.
 - UNLESS OTHERWISE INDICATED OR APPROVED, ALL BELOW GROUND DUCTILE IRON PIPE SHALL HAVE PUSH-ON OR MECHANICAL JOINTS, AND ALL ABOVE GROUND DUCTILE IRON PIPE SHALL HAVE FLANGED JOINTS. ALL JOINTS SHALL BE FULLY RESTRAINED PER THE DETAILS IN THESE PLANS.
 - SANITARY SEWERS AND FORCEMAINS CROSSING OVER OR UNDER WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18" BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER OR FORCE MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN 10' BETWEEN ANY TWO JOINTS. AS AN ALTERNATIVE, THE SEWER OR FORCE MAIN MAY BE PLACED IN A WATERTIGHT CASING PIPE, CONSISTENT WITH F.A.C. RULE 62-555.314.
 - ALL BELOW-GRADE FITTINGS 4-INCHES AND GREATER IN DIAMETER SHALL BE MECHANICAL JOINT DUCTILE IRON WITH INTERIOR AND EXTERIOR LINING AS NOTED IN MANATEE COUNTY APPROVED PRODUCTS LIST.
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SECURE PROPERTY FOR STAGING MATERIALS AND EQUIPMENT.
 - IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ACQUIRE, OR ENTER INTO AGREEMENTS, FOR LANDS FOR LAY DOWN 47 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.
 - 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 ON-SITE BY THE COUNTY INSPECTOR AND ENGINEER'S STAFF.
 - ALL ELEVATIONS ARE NAVD88 DATUM
- SAFETY**
- 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.
 - THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.
 - THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
 - THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THESE EXCLUSIONS DO NOT RELIEVE THE CONTRACTOR FROM PROVIDING ANY REQUIRED SAFETY EQUIPMENT, SUPPLIES, OR APPARATUS AS NEEDED TO EXECUTE THE WORK EFFECTIVELY AND SAFELY AS OUTLINED IN THE PLANS AND SPECIFICATIONS. THE CONTRACTOR ACCEPTS ANY AND ALL LIABILITY FROM THE CONTRACTOR'S FAILURE TO PROVIDE A SAFE WORK ENVIRONMENT.
- ENVIRONMENTAL**
- CONTRACTOR SHALL COMPLY TO ALL REQUIREMENT OF THE COASTAL CONSTRUCTION CONTROL LINE PERMIT (CCCL) COMPLIANCE INCLUDES BUT NOT LIMITED TO PROTECTING BEACH EROSION, SAND DUNES AND UPLAND PROPERTIES. CONSTRUCTION SHALL NOT INTERFERE WITH SEA TURTLE AND DUNE PLANT HABITATS. CONSTRUCTION SHALL NOT INTERFERE WITH PUBLIC ACCESS. ANY QUESTIONS SHALL BE DIRECTED TO FDEP (850-245-8570).
 - WHEN A BENTONITE SPILL OR CRACK-OUT OCCURS OR THERE IS A LOSS OF RETURN INDICATING EXCESSIVE SEEPAGE OR LOSS OF DRILLING FLUID, DRILLING MUST BE STOPPED UNTIL THE LOCATION OF THE SPILL IS IDENTIFIED. UNDER NO CIRCUMSTANCES WILL DRILLING CONTINUE WHEN A SPILL IS APPARENT.
 - 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.
 - 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.
 - 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.
 - STORM WATER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS AND WHICH MUST BE APPROVED BY THE ENGINEER BEFORE INSTALLATION. THIS WILL BE MAINTAINED TO PREVENT DEGRADATION OF THE WATERS OF THE COUNTY AND STATE.
 - SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OR PREVENT THE TRANSPORT OF SEDIMENT ONTO ADJACENT PROPERTIES, OR INTO EXISTING BODIES OF WATER, MUST BE INSTALLED, CONSTRUCTED, OR IN THE CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS. SUCH SYSTEMS SHALL BE FULLY OPERATIVE BEFORE ANY OTHER DISTURBANCE OF THE SITE BEGINS. EARTHEN STRUCTURES INCLUDING BUT NOT LIMITED TO BERMS, EARTH FILTERS, DAMS OR DIKES SHALL BE STABILIZED AND PROTECTED FROM DRAINAGE

- DAMAGE OR EROSION WITHIN ONE (1) WEEK OF INSTALLATION.
 - 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.
 - SOIL DISPLACED BY CONSTRUCTION WILL BE REMOVED. EROSION CONTROL SHALL BE IMPLEMENTED IN AREAS WHICH ARE CONSIDERED ENVIRONMENTALLY SENSITIVE. EROSION CONTROL SYSTEMS SHALL BE REQUIRED FOR ALL WORK WITHIN JURISDICTIONAL AREAS. THESE SYSTEMS MAY INCLUDE STAKED HAY BALES, SILT SCREENS, FILTER FABRIC, AND TURBIDITY 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.
 - THE CONTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER WETLAND AREAS THAT MAY BE ON OR NEAR THE CONSTRUCTION SITE. ALL WORK IN THE VICINITY OF OPEN WATER AND/OR WETLANDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL REGULATIONS AND/OR PERMITS FOR THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES RESULTING FROM HIS VIOLATION OF ANY REGULATIONS OR PERMIT CONDITIONS.
 - CONTRACTOR SHALL PROVIDE PROTECTIVE MATTING, FUEL CONTAINMENT AND ALL OTHER MATERIALS, EQUIPMENT AND LABOR TO PROTECT THE STAGING AREA DURING CONSTRUCTION.
 - 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.
- RIGHT-OF-WAY**
- ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE BRADENTON BEACH/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
 - THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE AND RESTORE PROPERTY CORNER MONUMENTS, PINS, AND LANDMARKS THAT MAY BE DISTURBED BY CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
 - THE CONTRACTOR, PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHT-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD PLANS FOR ROAD CONSTRUCTION MAINTENANCE OF TRAFFIC" INDEX 102-600 THROUGH 102-680. A TRAFFIC CONTROL PLAN SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING, PER SPECIFICATIONS 01570.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED STORM WATER STRUCTURES, PIPING, ENTRANCE PIPE AND HEADWALLS WHETHER SHOWN ON THE PLANS OR NOT. THE HEADWALLS SHALL BE REPLACED IN ACCORDANCE WITH F.D.O.T. STANDARDS, OR APPLICABLE JURISDICTION.
 - 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.
 - 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 WORK DAY AND FULLY RESTORED PER SECTION 02575.
 - A RIGHT OF ENTRY AGREEMENT SHALL BE OBTAINED BY THE CONSTRUCTION MANAGER FROM THE PROPERTY OWNER BEFORE ANY CONSTRUCTION IS DONE OUTSIDE OF THE RIGHT-OF-WAY OR EASEMENT.
- UTILITIES**
- LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA AND WHICH HAVE NOT BEEN LOCATED OR IDENTIFIED, MAY NOT BE IN THE EXACT LOCATION SHOWN OR RELOCATED SINCE THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES STRUCTURES AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) THAT MAY AFFECT HIS WORK. ALL EXISTING UTILITIES TO BE EXTENDED, CROSSED OR CONNECTED TO SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND ELEVATION. ANY DISCREPANCIES OR CONFLICTS FOUND SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION.
 - THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, MAIL BOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR FACILITY IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED ITEM DUE TO HIS CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER THAN PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
 - THE CONTRACTOR SHALL USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED OR OFFERED BY FLORIDA AGENCY AND LIGHT TO PREVENT UNDERMINING OF POWER POLES DURING CONSTRUCTION. IF HOLDING OF POWER POLES IS RECOMMENDED OR REQUIRED BY THE UTILITY, THE CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE UTILITY AND BEAR ALL RELATED COSTS.
 - ANY TEMPORARY SHUTDOWNS FOR MODIFICATIONS OF EXISTING UTILITY SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTION SHALL BE KEPT TO A MINIMUM AND SHALL BE COORDINATED WITH AND APPROVED BY THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. IT IS NOTED THAT TEMPORARY SHUTDOWNS MAY BE RESTRICTED TO CERTAIN HOURS AT ANY TIME OF THE DAY OR NIGHT AND WILL BE COMPLETED AT NO ADDITIONAL COST TO THE OWNER.
 - 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.
 - ALL MAINS TO BE ABANDONED IN PLACE SHALL BE GROUDED PER THE SPECIFICATIONS.
 - THE ELEVATIONS OF THE UTILITY SERVICES AND LATERALS HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL ANTICIPATED SOIL COVERAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE PROPOSED FORCE MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT FORCE MAIN CONSTRUCTION, THE COST OF UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH THE CONSTRUCTION OF THE PROPOSED FORCE MAIN. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO AFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.
- RESTORATION**
- ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
 - ALL DISTURBED GRASSED AREAS SHALL BE SODDED UNLESS OTHERWISE INDICATED. THE TYPE OF SOD USED TO REPLACE OWNER MAINTAINED AREAS IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER.
 - 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.
 - ASPHALT DRIVES THAT ARE CUT SHALL BE RESTORED PER SECTION 02513.
 - CONCRETE DRIVEWAYS OR SIDEWALKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO THE 2020-2021 EDITIONS OF THE F.D.O.T. STANDARD PLANS FOR ROAD CONSTRUCTION CONCRETE SIDEWALK AND DRIVEWAYS INDEX 522-001 THROUGH 522-003.
 - WHENEVER A PERMANENT ROADWAY SURFACE IS NOT REPLACED IMMEDIATELY AFTER BACKFILLING AND COMPACTION OF THE NEWLY INSTALLED PIPE LINE IN AREAS WHERE TRAFFIC MUST PASS, THE CONTRACTOR SHALL INSTALL A TEMPORARY SURFACE CONSISTING OF NINE INCHES OF COMPACTED LIME ROCK BASE AND A COAT OF ASPHALT EMULSION. PERMANENT ROADWAY REPAIR SHALL BE PERFORMED A MAXIMUM OF TWENTY-ONE CALENDAR DAYS AFTER THE INITIAL OPEN CUTTING.
 - RESTORATION OF CURBS, DRIVEWAYS, SIDEWALKS, AND PLACEMENT OF SOD SHALL BE AS SOON AS THE CONTRACTOR HAS COMPLETED WORK IN THE AREA OF IMPACT. RESTORATION SHALL BE COMPLETED NO MORE THAN 10 DAYS FROM COMPLETION OF CONSTRUCTION IN THE AREA OF IMPACT.
 - 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.
 - 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.
 - ALL EXISTING WATER/WASTEWATER INFRASTRUCTURE INCLUDING, BUT NOT LIMITED TO, WATER METER BOXES, FIRE HYDRANTS, AND VALVE BOXES SHALL BE ADJUSTED TO FINAL GRADE.
- CONSTRUCTION**

- 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.
 - NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEEPED DAILY AS PART OF DAILY CLEAN UP.
 - THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
 - INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.
 - PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OR TRIMMING OF ANY TREE WITHIN THE CONSTRUCTION AREA.
 - THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM.
 - 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.
 - ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.
 - ALL FITTINGS FOR PRESSURE CLASS-RATED PIPE SHALL BE RESTRAINED DUCTILE IRON. FITTINGS AND PIPE JOINTS SHALL BE RESTRAINED PER THE DETAILS IN THE PLANS.
 - WHERE IT IS NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S MAXIMUM ALLOWABLE RECOMMENDED DEFLECTION.
 - ALL ROCKS OR STONES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN TWO INCH DIAMETER.
 - ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES AND PUMP STATIONS ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
 - CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC).
 - 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.
 - FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.
 - 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.
 - THE MCUD OFFICE OF INDUSTRIAL COMPLIANCE WILL DETERMINE WHETHER A LETTER OF APPROVAL, A DISCHARGE AUTHORIZATION, OR A DISCHARGE PERMIT IS REQUIRED.
 - FOR SITES SUSPECTED OF CONTAMINATED GROUNDWATER MANATEE COUNTY WILL REQUIRE AN APPLICANT TO DEMONSTRATE THAT THE DISCHARGE MEETS THE MANATEE COUNTY SEWER USE ORDINANCE.
 - IF ANY RECLAIMED OR WATER MAINS INCLUDING SERVICE LINES ARE DAMAGED DURING CONSTRUCTION, THEY SHALL BE REPLACED FROM THE VALVE TO THE OTHER POINT OF CONNECTION OUTSIDE OF THE ROADWAY PER MANATEE COUNTY'S STANDARDS. SERVICES WILL BE REPLACED FROM THE CORP STOP TO THE METER.
- 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 25. (REVISED 2015).
 - FLORIDA DEPARTMENT 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 CONTROL NOTES**
- TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH F.D.O.T. LATEST DESIGN STANDARDS NO. 102-600, 102-603, 102-605, 102-611, 102-612, 102-613, 102-616 AND 102-660 DEPENDING ON THE OPERATION BEING PERFORMED. FOR ALL TWO-LANE WORK, TWO-WAY, WORK WITHIN TRAVEL LANE UTILIZE INDEX 102-603. FOR ALL TWO-LANE WORK, TWO-WAY, WORK NEAR INTERSECTION UTILIZE INDEX 102-605. FOR ALL MULTILANE WORK OUTSIDE SHOULDER UTILIZE INDEX 102-611. FOR ALL MULTILANE WORK ON SHOULDER UTILIZE INDEX 102-612. FOR ALL MULTILANE WORK WITHIN TRAVEL WAY MEDIAN OR OUTSIDE LANE UTILIZE INDEX 102-613. FOR ALL MULTILANE WORK NEAR INTERSECTION MEDIAN OR OUTSIDE LANE UTILIZE INDEX 102-616. FOR PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALK, UTILIZE INDEX 102-660.
 - 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 PAVING 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 CONTRACTOR'S EXPENSE.
 - LANE CLOSURES SHALL OCCUR BETWEEN 9:00 P.M. AND 5:00 A.M., UNLESS LANE CLOSURE CALCULATIONS ARE PROVIDED BY THE ENGINEER. THE DISTRICT PERMIT ENGINEER, THE CONTRACTOR SHALL SCHEDULE WORK OPERATIONS SO THAT ALL LANES CAN BE RE-OPENED TO TRAFFIC WITHIN A PERIOD OF 24 HOURS IN CASE OF AN EMERGENCY.
 - PEDESTRIANS, BICYCLES, AND WHEELCHAIRS: AT THE END OF EACH WORKDAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP-OFF ADJACENT TO A SIDEWALK SHALL BE BACKFILLED AT A SLOPE NOT TO EXCEED 1:4, OR SHALL BE PROTECTED IN ACCORDANCE WITH DESIGN STANDARD 102-600
 - PEDESTRIAN AND WHEELCHAIR TRAFFIC SHALL BE ACCOMMODATED UTILIZING STANDARD INDEX 102-660.
 - ONE PORTABLE VARIABLE MESSAGE SIGN SHALL BE USED IN ADVANCE OF EACH LANE CLOSURE. THE FOLLOWING ARE SUGGESTED MESSAGES TO USE IN THE APPROPRIATE SITUATIONS:
MESSAGE 1
"RIGHT" OR "CENTER" OR "LEFT"
"LANE" "LANE" "LANE"
"CLOSED" "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.
 - AT THE END OF EACH WORKING DAY'S ACTIVITY, TEMPORARY PAVEMENT MARKINGS AND TEMPORARY RPM'S SHALL BE INSTALLED PRIOR TO OPENING THE LANES UP FOR TRAFFIC.
 - ALL PAVEMENT MARKINGS, SIGNS, MARKERS, CHANNELIZATION REQUIRED TO PHASE WORK OR SHIFT TRAFFIC, SHALL UTILIZE INDICES FOR PLACEMENT.
 - THE CONTRACTOR SHALL RESTRICT THE OPERATIONS SO THAT THE FIRST LIFT OF ASPHALT IS PLACED ON THE SAME

- MILLING AND RESURFACING SHALL BE ACCOMPLISHED DURING THE OFF-PEAK HOURS.
 - THE CONTRACTOR IS RESPONSIBLE TO RETIME THE TRAFFIC SIGNALS WITHIN THE PROJECT LIMITS (INCLUDING LIMITS OF WORK ZONE TRAFFIC CONTROL) THAT ARE POTENTIALLY AFFECTED DURING VARIOUS PHASES OF CONSTRUCTION. COORDINATE ALL SIGNAL RETIME EFFORTS MUKUNDA GOPALAKRISHNA, P.E., PTOE, COUNTY TRAFFIC ENGINEER, AT 941-749-3500, EXT. 7813.
 - CONTRACTOR TO MAINTAIN VEHICLE DETECTION IN OPERATION FOR LANES THAT WILL REMAIN OPEN. CONTRACTOR TO COORDINATE ALL VEHICLE DETECTION ISSUES WITH AARON BURKETT OF MANATEE COUNTY AT 941-708-7509 OR AARON.BURKETT@MANATEE.ORG
 - MAINTENANCE OF TRAFFIC AND ANY SIGNAL RETIMING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - ANY SIGNAL RETIMING REQUIRED FOR THE INTERSECTIONS IMPACTED BY THE PROJECT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. SIGNAL TIMING MODIFICATIONS TO BE SUBMITTED TO MANATEE COUNTY TRAFFIC DESIGN, ATTENTION MR. MUKUNDA GOPALAKRISHNA FOR REVIEW AND APPROVAL AT LEAST 15 WORKING DAYS BEFORE PROPOSED CHANGES. THIS DOES NOT GOVERN EMERGENCY SITUATIONS, PENDING THE APPROVAL OF THE ENGINEER.
 - A DETAILED MAINTENANCE OF TRAFFIC PLANS ARE TO BE SUBMITTED TO MANATEE COUNTY AND THE ENGINEER, BY THE CONTRACTOR, FOR REVIEW AND APPROVAL A MINIMUM OF 21 WORKING DAYS PRIOR TO PROPOSED IMPLEMENTATION.
 - PRIOR TO COMMENCING WORK, CONTRACTOR SHALL RECEIVE APPROVAL FOR A COUNTY RIGHT-OF-WAY PERMIT. CONTACT MATT MERUCIO AT MATT.MERUCIO@MANATEE.ORG OR 941-708-7450 EXT 7342 FOR PERMIT APPLICATION. PERMIT FEES WILL BE WAIVED FOR ALL COUNTY CAPITAL IMPROVEMENT PROJECTS.
 - THE CONTRACTOR SHALL MAINTAIN TEMPORARY VEHICLE DETECTION ON ALL APPROACHES THROUGHOUT CONSTRUCTION UNTIL MANATEE COUNTY ACCEPTS THE PROJECT. ANY DAMAGE TO THE EXISTING DETECTION SYSTEM AT AN INTERSECTION MUST BE RESTORED WITHIN TWENTY-FOUR (24) HOURS AT NO ADDITIONAL COST TO THE COUNTY. MANATEE COUNTY TRAFFIC OPERATIONS DIVISION WILL ASSIST AS NEEDED WHENEVER POSSIBLE.
 - THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR THE SIGNAL MAINTENANCE, TIMING AND OPERATION OF ANY AND ALL SIGNALS AND SIGNAGE FROM THE COMMENCEMENT TO THE ACCEPTANCE OF THE PROJECT (I.E.: EXISTING LOOPS CUT, SYSTEM COMMUNICATION TERMINATED, LANE OR PAVEMENT MODIFICATIONS, PEDESTRIAN MODIFICATIONS, TRAFFIC SIGNAL SCHOOL FLASHER, WARNING FLASHER, ROADWAY LIGHTING, COUNT STATIONS, AND ANY OTHER TRAFFIC RELATED DEVICE LOCATED WITHIN THE CONSTRUCTION ZONE). MANATEE COUNTY WILL ASSIST IN PROVIDING EXISTING SYSTEM TIMES WHEN POSSIBLE.
- WORK SCHEDULE COORDINATION**
- COORDINATE ALL LIFT STATION SHUT DOWNS WITH NICK WAGNER, 941-792-8811 X 5377 OR NICK.WAGNER@MANATEE.ORG
 - CONTRACTOR SHALL ABIDE BY ALL CITY OF BRADENTON BEACH REGULATIONS AND RULES TO INCLUDE, BUT NOT LIMITED TO, WORK HOURS, CITY HOLIDAYS, NOISE REGULATIONS, TRAFFIC CONTROL, AND PROPERTY ACCESS. ANY VARIATION FROM THESE STANDARDS MUST BE APPROVED IN WRITING BY THE CITY OF BRADENTON BEACH IN ADVANCE. CONTRACTOR SHALL APPLY FOR A RIGHT-OF-WAY PERMIT WITH THE CITY OF BRADENTON BEACH PRIOR TO STARTING CONSTRUCTION.
 - CONTRACTOR SHALL MAINTAIN VEHICULAR/PEDESTRIAN TRAFFIC ACCESS TO COMMERCIAL PROPERTIES AND ASSOCIATED PARKING LOTS, AND TO RESIDENTIAL PROPERTIES DURING CONSTRUCTION.
 - CONTRACTOR SHALL COORDINATE DIRECTLY WITH THE COUNTY PUBLIC OUTREACH MANAGER AND APPROVED COUNTY CONSULTANTS TO ADDRESS ANY COMPLAINTS.
 - DOOR HANGERS SHALL BE PROVIDED TO ALL NEIGHBORS/BUSINESSES AFFECTED BY CONSTRUCTION AT LEAST 48 HOURS IN ADVANCE. DOOR HANGERS SHALL PROVIDE INFORMATION ON ESTIMATED DAYS OF IMPACT AND MITIGATION EFFORTS.
- ABBREVIATIONS**
- | | | | |
|-----|--------------------------------|-----|----------------------------|
| RJ | - RESTRAINED JOINT | ST | - STORM DRAIN |
| R/W | - RIGHT-OF-WAY | EX | - EXISTING |
| HDD | - HORIZONTAL DIRECTIONAL DRILL | BT | - BURIED TELEPHONE |
| RCP | - REINFORCED CONCRETE PIPE | SM | - SANITARY SEWER |
| ARV | - AIR RELEASE VALVE | FM | - FORCE MAIN |
| HHD | - HIGH DENSITY POLYETHYLENE | WM | - WATER MAIN |
| PVC | - POLYVINYL CHLORIDE | RP | - RECLAIM WATER MAIN |
| | | ECW | - ELLIPTICAL CONCRETE PIPE |
- KIMLEY HORN LEGEND**
- PROPOSED GRAVITY SEWER MAIN INSTALLED VIA OPEN CUT
- PROPOSED GRAVITY SEWER MAIN INSTALLED VIA HDD
- EX. SANITARY SEWER
- EX. FORCEMAIN
- PROPOSED MANHOLE
- PROPOSED SERVICE LATERAL
- EX. BURIED TELEPHONE/FIBER
- EX. AERIAL ELECTRIC
- EX. FIBER OPTICS
- EX. BURIED ELECTRIC
- EX. TV
- EX. GAS
- LEGEND:**
- SIDEWALK/CONCRETE RESTORATION
- BRICK DRIVEWAY RESTORATION
- SHELL ROAD RESTORATION
- SHELL RESTORATION
- FULL DEPTH FDOT ROAD RESTORATION
- FULL ROAD RESTORATION
- MILL AND OVERLAY
- RECORDED EASEMENT

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



ADDENDUM #3	7/16/2021	MAS
No.	REVISIONS	DATE BY

Kimley-Horn

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
100 2ND AVE S, UNIT 105N, ST. PETERSBURG, FL 33701
PHONE: 727-547-3999
WWW.KIMLEY-HORN.COM Registry No. 696

Manatee County Florida

BRADENTON BEACH GRAVITY REPLACEMENT

KHA PROJECT 148400056
DATE JULY 2021
SCALE AS SHOWN
DESIGNED BY MAS
DRAWN BY KTM
CHECKED BY WEW

MANATEE COUNTY

LICENSED PROFESSIONAL
MICHAEL A. SEMAGO, P.E.
FL LICENSE NUMBER 87501

GENERAL NOTES

SHEET NUMBER **G-02**

This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of any information on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

GENERAL NOTES

1. THE FOLLOWING NGS VERTICAL CONTROL MONUMENTS WERE RECOVERED AND UTILIZED FOR THE ELEVATIONS INDICATED HEREIN: "GIS 103" NAVD 1988 ELEVATION 4.27' "J 254" NAVD 1988 ELEVATION 13.48'
2. THIS SURVEY IS REFERENCED TO A PROJECTION OF THE FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE NAD 1983/2011 ADJUSTMENT).
3. RIGHT-OF-WAY AND PARCEL LOCATION INDICATED HEREIN IS THE RESULT OF FOUND BOUNDARY MONUMENTATION TOGETHER WITH AVAILABLE PUBLIC RECORD INFORMATION. TITLE WORK WAS NOT PROVIDED.
4. THIS SURVEY IS SUBJECT TO PERTINENT EASEMENTS, RIGHTS-OF-WAY AND RESTRICTIONS OF RECORD, IF ANY.
5. THIS SURVEY DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF THE PARTY OR PARTIES CERTIFIED TO BELOW FOR THE EXPRESS PURPOSE STATED HEREON AND/OR CONTAINED IN THE CONTRACT BETWEEN HYATT SURVEY SERVICES, INC. AND THE CLIENT FOR THIS PROJECT. COPYING, DISTRIBUTING AND/OR USING THIS DRAWING, IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN ORIGINALLY INTENDED WITHOUT WRITTEN CONSENT FROM HYATT SURVEY SERVICES, INC. IS STRICTLY PROHIBITED AND RENDERS THE SURVEYOR'S CERTIFICATION, SIGNATURE AND SEAL NULL AND VOID. ANY QUESTIONS CONCERNING THE CONTENT OR PURPOSE OF THIS DRAWING SHOULD BE DIRECTED TO HYATT SURVEY SERVICES, INC.

LEGEND

-  SITE CONTROL POINT
-  IRON PIPE FOUND
-  IRON ROD FOUND
-  CONCRETE MONUMENT FOUND
-  SUBSURFACE INVESTIGATION
-  SIGN
-  WOOD UTILITY POLE
-  CONCRETE UTILITY POLE
-  GUY WIRE
-  WATER METER
-  WATER VALVE
-  SANITARY MANHOLE
-  FIRE HYDRANT
-  BACKFLOW PREVENTER
-  UTILITY BOX
-  UTILITY RISER
-  ELECTRIC SERVICE BOX
-  MAILBOX(ES)
-  WOOD POST
-  CLEANOUT
-  GAS MARKER

-  PINE
-  PALM
-  TREE

SITE CONTROL

DESIGNATION	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP #1	1137931.14	429909.29	4.95'	ND (LB 7203)
CP #2	1137704.01	429981.50	4.59'	ND (LB 7203)
CP #3	1137472.22	430057.81	4.89'	IRC (LB 7203)
CP #4	1137248.25	430129.02	4.88'	IRC (LB 7203)
CP #5	1137016.55	430201.71	4.49'	IRC (LB 7203)
CP #6	1136765.91	430274.86	4.64'	IRC (LB 7203)
CP #7	1136538.30	430330.18	4.85'	IRC (LB 7203)
CP #8	1136302.38	430398.82	5.73'	IRC (LB 7203)

VVH TABLE

VVH NUMBER	UTILITY	SIZE	MATERIAL	DEPTH OF COVER	COLOR	SURFACE TYPE	TRACER FOUND
1	FORCE MAIN	4"	PVC	3.99'	GREEN	SAND	METAL TAPE
2	GAS	4"	POLY	2.99'	YELLOW	SAND	WIRE
3	WATER MAIN	4"	PVC	3.37'	BLUE	GRASS	WIRE
4	BURIED ELECTRIC	2"	PVC	3.94'	BLACK	GRASS	NONE
5	FORCE MAIN	4"	PVC	2.41'	GREEN	ASPHALT	NONE
6	WATER MAIN	16"	DIP	3.04'	BLACK	ASPHALT	NONE
7	BURIED FIBER	4"	PVC	1.64'	PEACH	ASPHALT	NONE
8	WATER MAIN	16"	DIP	3.60'	BLACK	CONCRETE	NONE
9	BURIED TEL.	4"	PVC	1.83'	PEACH	ASPHALT	NONE
10	WATER MAIN	16"	DIP	3.20'	BLACK	ASPHALT	NONE
11	BURIED TEL.	1.25"	DBC	1.08'	BLACK	DIRT	NONE
12	WATER MAIN	16"	DIP	3.23'	BLACK	ASPHALT	NONE
13	2 BURIED FIBER	4"	POLY	1.81'	BLACK	ASPHALT	NONE
14	WATER MAIN	16"	DIP	2.93'	BLACK	ASPHALT	NONE
	2 BURIED TEL.	4"	PVC	2.93'	PEACH		NONE
15 (16)	2 BURIED TEL.	4"	PVC	2.26'	PEACH	ASPHALT	NONE
	WATER MAIN	16"	DIP	2.65'	BLACK		NONE
17	WATER MAIN	16"	DIP	3.30'	BLACK	ASPHALT	NONE
	BURIED TEL.	1.25"	DBC	2.90'	BLACK		NONE
18	BURIED TEL.	4"	PVC	3.20'	PEACH	ASPHALT	NONE
	BURIED TEL.	1.25"	DBC	3.20'	BLACK		NONE
19	GAS	4"	POLY	5.34'	YELLOW	DIRT	WIRE
20	GAS	4"	POLY	3.24'	YELLOW	SHELL	WIRE
21	GAS	4"	POLY	3.74'	YELLOW	SHELL	WIRE
22	GAS	4"	POLY	3.56'	YELLOW	SHELL	WIRE
23	GAS	4"	POLY	3.25'	YELLOW	SHELL	WIRE
24	GAS	4"	POLY	3.40'	YELLOW	SHELL	WIRE
25	WATER MAIN	16"	DIP	3.11'	BLACK	ASPHALT	NONE
26	UNKNOWN	4"	PVC	3.17'	GRAY	ASPHALT	NONE
27	BURIED TEL.	1.25"	DBC	2.34'	BLACK	ASPHALT	NONE

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
 100 2ND AVE S, UNIT 105N, ST. PETERSBURG, FL 33701
 PHONE: 727-547-3999
 WWW.KIMLEY-HORN.COM Registry No. 696

KHA PROJECT 148400056
DATE JULY 2021
SCALE AS SHOWN
DESIGNED BY MAS
DRAWN BY KTM
CHECKED BY WEW


**BRADENTON BEACH GRAVITY
 REPLACEMENT**

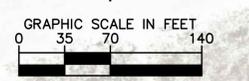
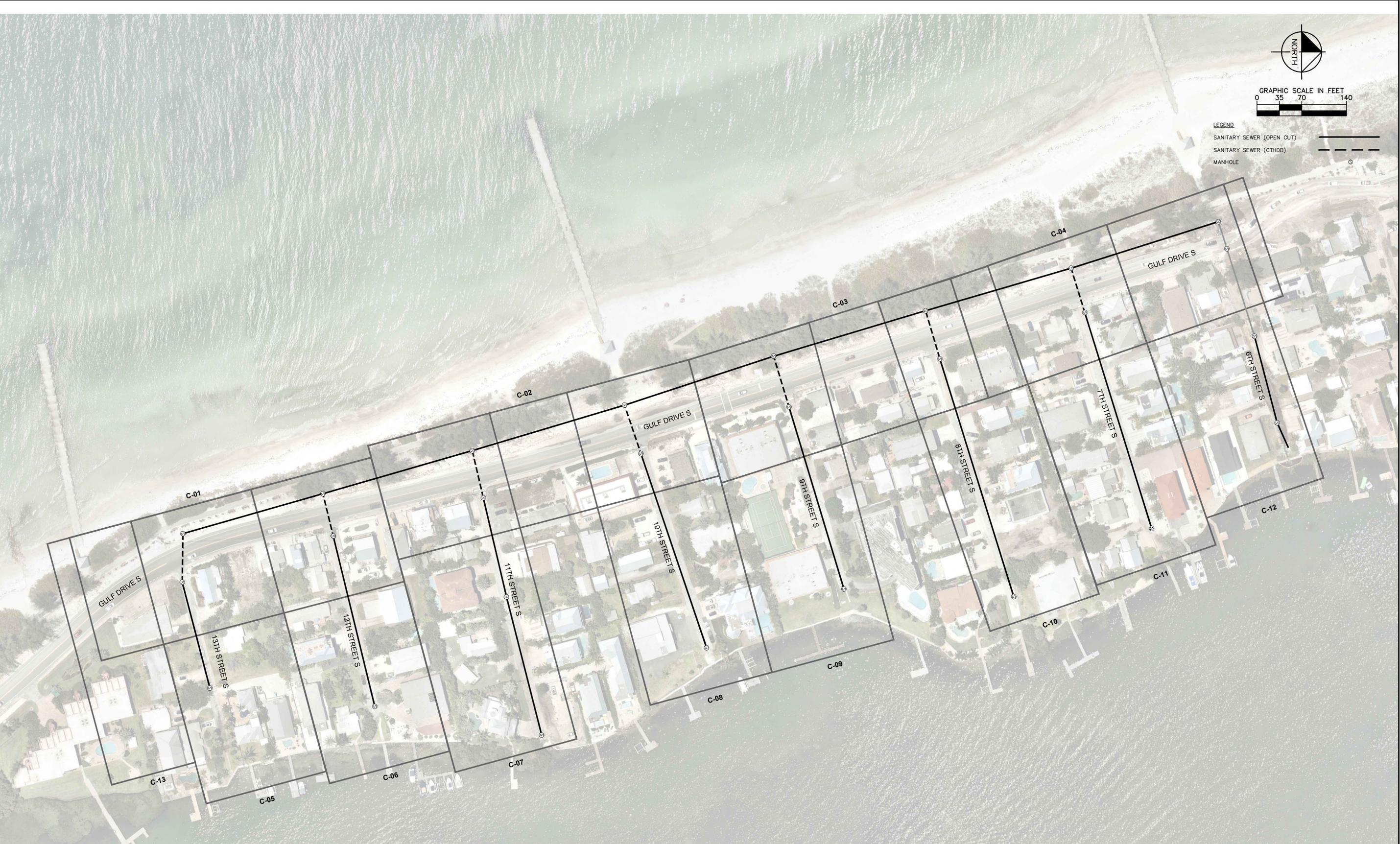
MANATEE COUNTY FL

LICENSED PROFESSIONAL
MICHAEL A. SEMAGO, P.E.
FL LICENSE NUMBER 87501

SURVEY & SUE NOTES

SHEET NUMBER
G-03

This document, together with the concepts and designs presented herein, is an instrument of service intended only for the specific purpose and client for which it was prepared. Reuse of any improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



LEGEND

SANITARY SEWER (OPEN CUT)	—————
SANITARY SEWER (CTHDD)	- - - - -
MANHOLE	⊗

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
 100 2ND AVE S, UNIT 105N, ST. PETERSBURG, FL 33701
 PHONE: 727-547-3999
 WWW.KIMLEY-HORN.COM Registry No. 696

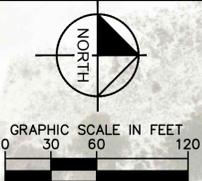
KHA PROJECT	148400056
DATE	JULY 2021
SCALE	AS SHOWN
DESIGNED BY	MAS
DRAWN BY	KTM
CHECKED BY	WEW


BRADENTON BEACH GRAVITY REPLACEMENT
 MANATEE COUNTY FL

LICENSED PROFESSIONAL	MICHAEL A. SEMAGO, P.E.
FL LICENSE NUMBER	87501
DATE:	

KEYSHEET

SHEET NUMBER	G-04
--------------	------



- CONSTRUCTION PHASING**
- PHASE I —
 - PHASE II —
 - EXISTING SANITARY SEWER TO REMAIN —
 - EXISTING SANITARY SEWER TO BE GROUT FILL AND ABANDONED —

- CONSTRUCTION PHASING NOTES**
- PHASE I:
- CONTRACTOR TO CONSTRUCT GRAVITY MAIN ALONG GULF DRIVE, CONNECTING INTO EX. MH #1
 - CONTRACTOR TO CONSTRUCT GRAVITY MAIN AND SERVICE LATERALS ON 11TH STREET SOUTH, CONNECTING INTO GRAVITY MAIN ALONG GULF AT MH #7
 - CONTRACTOR TO SWITCH OVER FLOWS, PENDING GRAVITY SEWER TESTING AND APPROVAL, FROM SOUTH VIA INSTALLED CUT IN MANHOLE #1
- PHASE II:
- AFTER FLOW SWITCHES OVER TO NEW MAIN ON 11TH STREET SOUTH AND CUT IN MANHOLE #1 IS INSTALLED CONTRACTOR TO CONSTRUCT REMAINING GRAVITY MAIN AND SERVICES
- PHASE III:
- ONCE PROPOSED GRAVITY MAIN IS FULLY CONSTRUCTED AND REVIEWED BY ENGINEER, EXISTING GRAVITY MAIN SHALL BE GROUT FILLED AND ABANDONED PER SHEET G-06



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



No.	REVISIONS	DATE	BY

Kimley»Horn

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
 100 2ND AVE S, UNIT 105N, ST. PETERSBURG, FL 33701
 PHONE: 727-547-3999
 WWW.KIMLEY-HORN.COM Registry No. 696

KHA PROJECT 148400056
 DATE JULY 2021
 SCALE AS SHOWN
 DESIGNED BY MAS
 DRAWN BY KTM
 CHECKED BY WEW

Manatee County Florida

BRADENTON BEACH GRAVITY REPLACEMENT

MANATEE COUNTY FL

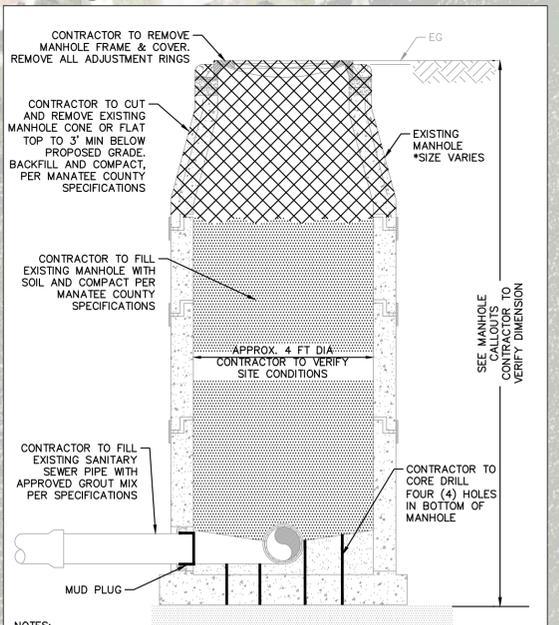
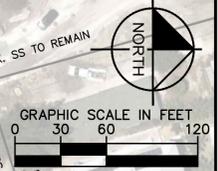
LICENSED PROFESSIONAL
 MICHAEL A. SEMAGO, P.E.
 FL LICENSE NUMBER 87501

CONSTRUCTION PHASING PLAN

SHEET NUMBER
G-05

GROUT & DEMOLITION PLAN LEGEND

- EX. SANITARY SEWER
- EX. FORCE MAIN
- EX. MANHOLE
- APPROXIMATE LENGTH OF 10" GRAVITY SEWER TO BE GROUT FILLED AND ABANDONED 1732 LF
- APPROXIMATE LENGTH OF 8" GRAVITY SEWER TO BE GROUT FILLED AND ABANDONED 2318 LF
- APPROXIMATE LENGTH OF 6" GRAVITY SEWER TO BE GROUT FILLED AND ABANDONED 200 LF
- MANHOLE DEMOLITIONS (SEE CALLOUT) 25
- **EX. MANHOLE #1-4 TO REMAIN



- NOTES:**
- MANHOLES 5 FT OR LESS IN DEPTH SHALL BE COMPLETELY REMOVED AND BACKFILLED IN ACCORDANCE WITH MANATEE COUNTY SPECIFICATIONS.
 - IF MANHOLE IS ON ROADWAY, COMPACTION SHALL BE 98% PER AASHTO T-180 DENSITY. IF MANHOLE IS OUTSIDE OF ROADWAY, COMPACTION SHALL BE 95% PER AASHTO T-180 DENSITY OR GREATER.

GROUT MIX TO BE PER SPECIFICATIONS SECTION: 02064 SUB SECTION: 3.04

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



REVISION	DATE	MANHOLE DEMOLITION DETAIL	MD-01
----------	------	---------------------------	-------

No.	REVISIONS	DATE	BY

Kimley & Horn

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
 100 2ND AVE S, UNIT 105N, ST. PETERSBURG, FL 33701
 PHONE: 727-547-3999
 WWW.KIMLEY-HORN.COM Registry No. 696

Manatee County Florida

BRADENTON BEACH GRAVITY REPLACEMENT

KHA PROJECT 148400056
 DATE JULY 2021
 SCALE AS SHOWN
 DESIGNED BY MAS
 DRAWN BY KTM
 CHECKED BY WEW

LICENSED PROFESSIONAL

MICHAEL A. SEMAGO, P.E.

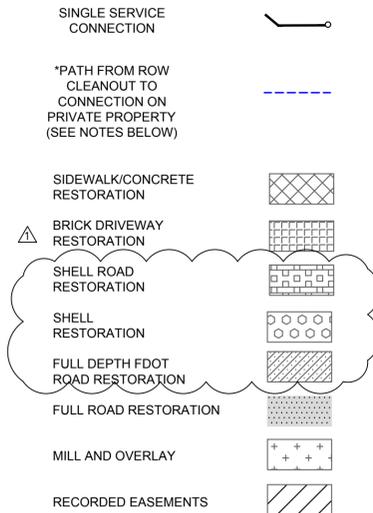
FL LICENSE NUMBER 87501

EXISTING SANITARY SEWER GROUT & DEMOLITION PLAN

SHEET NUMBER

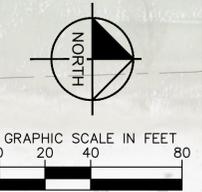
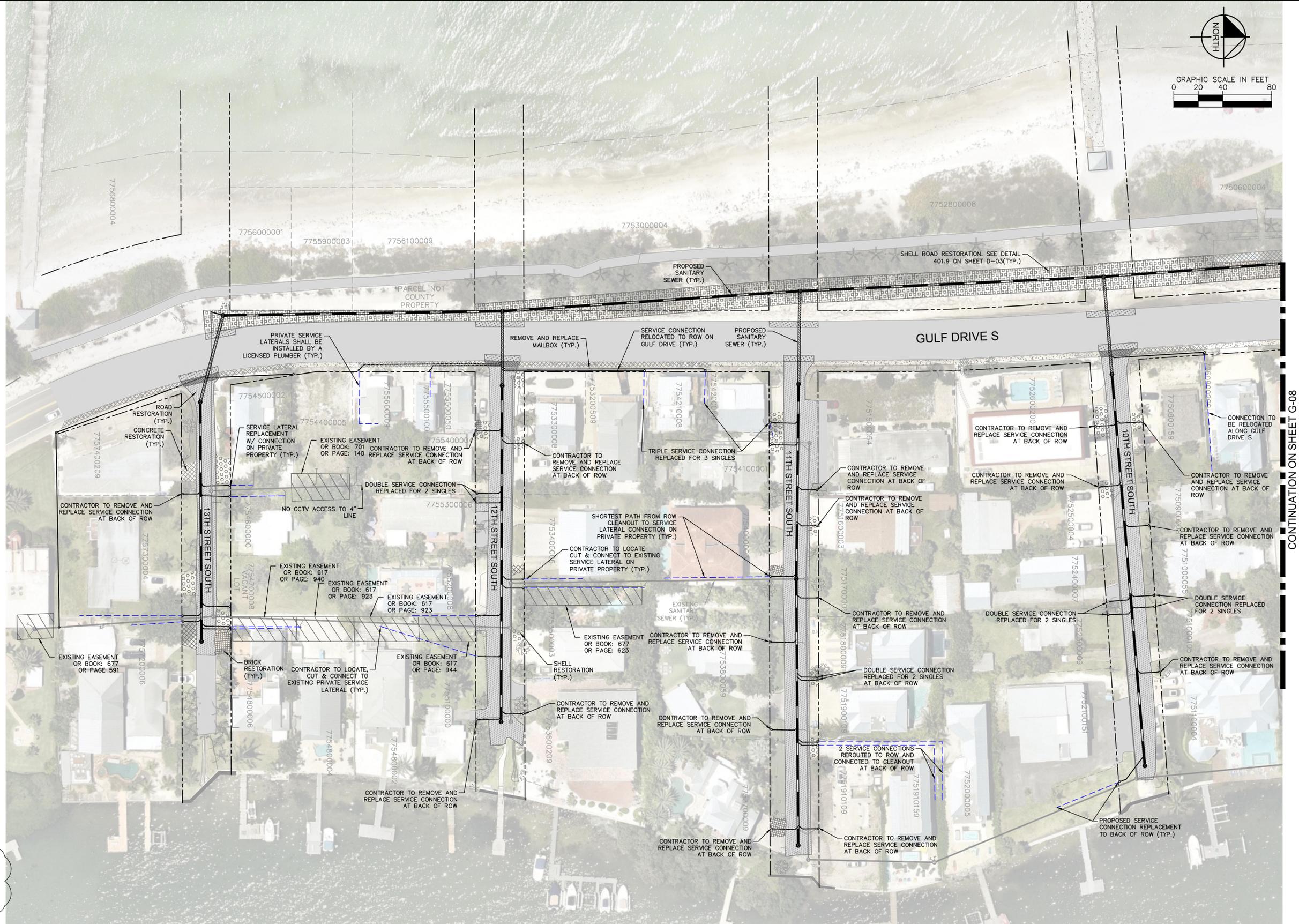
G-06

LEGEND:



LATERAL CONSTRUCTION NOTES:

1. THE LOCATIONS OF EXISTING SERVICE LATERALS CONNECTING TO THE GRAVITY MAIN IN THE RIGHT-OF-WAY AND ON PRIVATE PROPERTY ARE ESTIMATES BASED ON CLOSED CIRCUIT TELEVISION CAMERA THE SERVICE LATERAL CONNECTIONS TO THE HOUSES ARE BASED ON GEOGRAPHIC INFORMATION SYSTEM. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS OF ALL SERVICE LATERALS IN RIGHT-OF-WAY AND PRIVATE PROPERTY.
2. ALL SERVICE LOCATIONS SHOWN ARE APPROXIMATE AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL HOMEOWNERS FOR LOCATING THE OWNER'S EXISTING SERVICE LATERAL AND DETERMINE, SUBJECT TO APPROVAL BY THE COUNTY, THE BEST LOCATIONS AND DEPTH FOR EACH SERVICE LATERAL.
3. LOCATION OF ALL SERVICE LATERALS AND CONNECTIONS IN RIGHT-OF-WAY AND ON PRIVATE PROPERTY SHALL BE RECORDED ON THE AS-BUILT DRAWINGS TO BE FURNISHED TO THE COUNTY BY THE CONTRACTOR.
4. CONTRACTOR SHALL USE ALL EFFORTS TO MINIMIZE IMPACT TO EXISTING DRIVEWAYS, SIDEWALKS, INFRASTRUCTURE, ETC., WHEN CONSTRUCTING SERVICE LATERALS IN RIGHT-OF-WAY AND ON PRIVATE PROPERTY.
5. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT SERVICE LATERALS, THE COST OF UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH THE CONSTRUCTION OF THE PROPOSED SERVICE LATERALS.
6. ANY EXISTING UTILITY SERVICES AFFECTED BY CONSTRUCTION SHALL BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE
7. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES AND PUMP STATIONS ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
8. CONTRACTOR TO MAINTAIN MINIMUM CLEARANCES PER FDEP F.A.C. RULE 62-55.314. SEE DETAIL ON SHEET D-03.
9. CONTRACTOR TO REFERENCE DETAIL US-13A ON SHEET D-02 AND MANATEE COUNTY SPECIFICATIONS FOR SERVICE LATERAL CONSTRUCTION
10. EACH SERVICE CONNECTION SHALL BE A SINGLE SERVICE CONNECTION FROM RIGHT-OF-WAY AND/OR PRIVATE PROPERTY TO GRAVITY MAIN. AT NO POINT MAY ANY SERVICE CONNECTIONS BE DOUBLES.
11. CONTRACTOR TO ENSURE ALL MANHOLES AND CLEANOUTS ARE ACCESSIBLE DURING CONSTRUCTION
12. ALL RESTORATION ON PRIVATE PROPERTY SHALL BE COORDINATED WITH THE HOME OWNER AND REVIEWED BY THE COUNTY
13. ALL SERVICE LATERAL CONSTRUCTION ON PRIVATE PROPERTY SHALL BE INSTALLED BY A LICENSED PLUMBER
14. CONTRACTOR TO INSTALL SANITARY SEWER CLEAN OUT AT THE BACK OF RIGHT-OF-WAY. CONTRACTOR TO EXERCISE CAUTION AND COORDINATE WITH FPL WHERE BURIED ELECTRIC IS PRESENT. IF A CONFLICT WITH THE NEW CLEAN OUT AND EXISTING BURIED ELECTRIC IS PRESENT, COORDINATE CLEAN OUT LOCATION WITH COUNTY INSPECTOR AND FPL



ADDENDUM #3	7/16/2021	MAS
No.	REVISIONS	DATE BY

Kimley Horn

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
 100 2ND AVE S, UNIT 105N, ST. PETERSBURG, FL 33701
 PHONE: 727-547-3999
 WWW.KIMLEY-HORN.COM Registry No. 696

KHA PROJECT 148400056
 DATE JULY 2021
 SCALE AS SHOWN
 DESIGNED BY MAS
 DRAWN BY KTM
 CHECKED BY WEW

Manatee County Florida

BRADENTON BEACH GRAVITY REPLACEMENT

MANATEE COUNTY

LICENSED PROFESSIONAL

MICHAEL A. SEMAGO, P.E.

FL LICENSE NUMBER 87501

SERVICE LATERAL CONSTRUCTION I

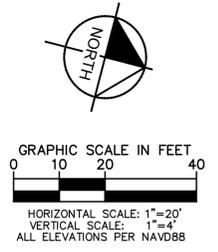
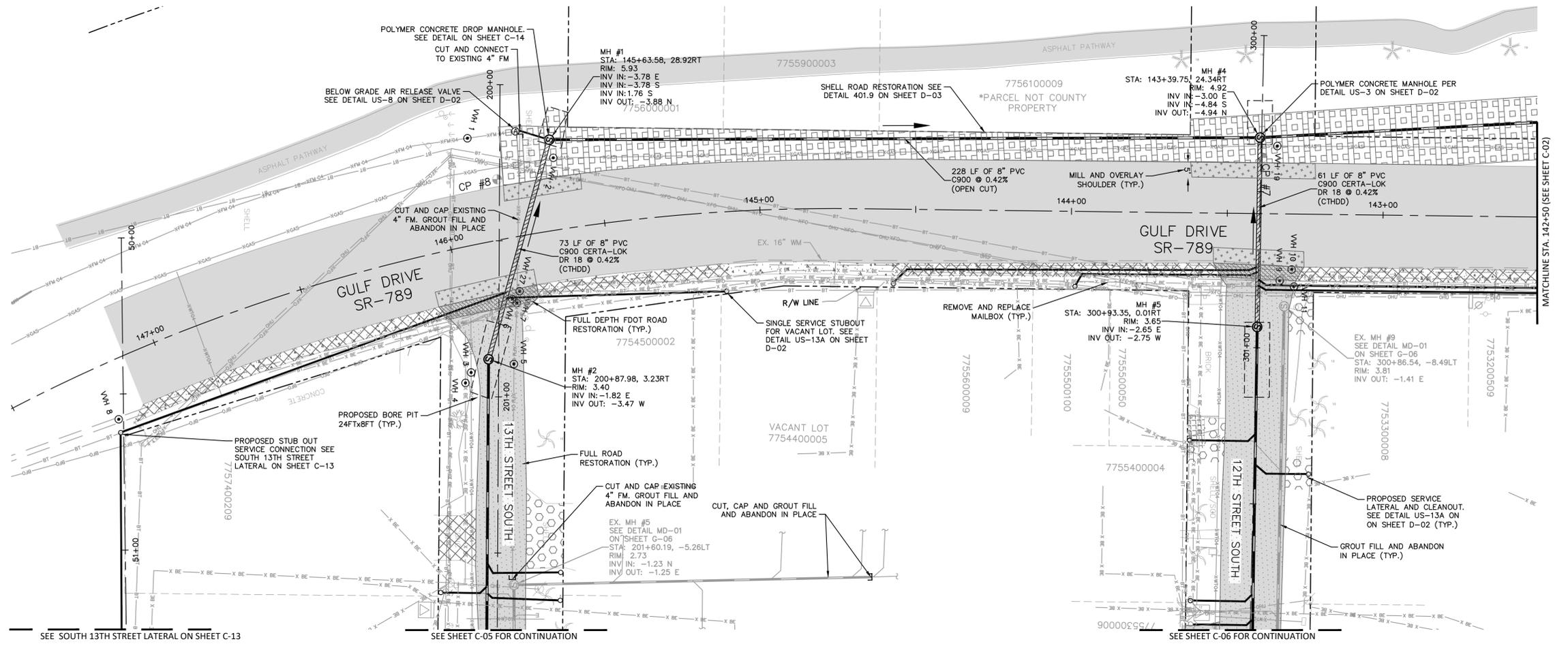
SHEET NUMBER

G-07

This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of any information on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

CONTINUATION ON SHEET G-08

This document, together with the concepts and designs presented herein, is an instrument of service intended only for the specific purpose and client for which it was prepared. Reuse of any improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



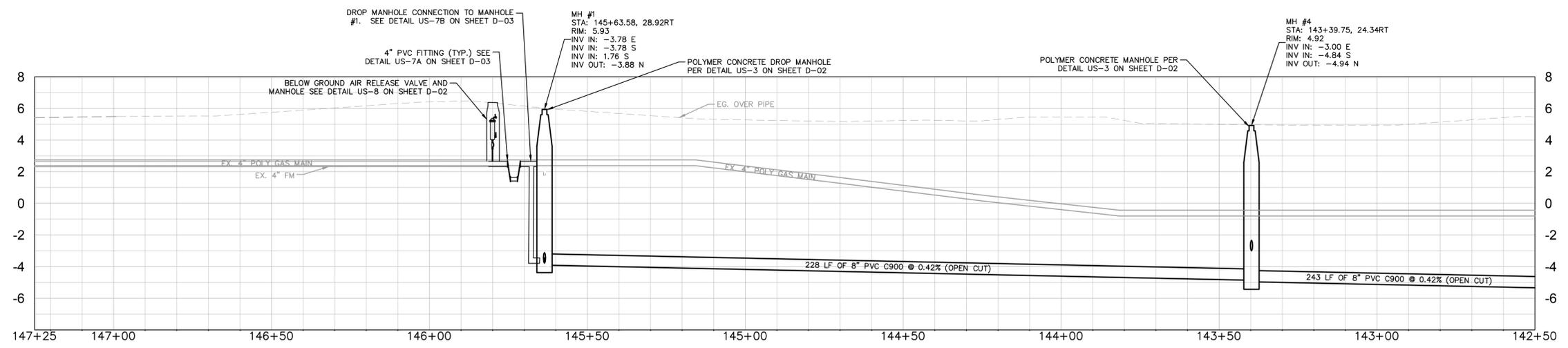
- LEGEND:**
- SIDEWALK/CONCRETE RESTORATION
 - BRICK DRIVEWAY RESTORATION
 - SHELL ROAD RESTORATION
 - SHELL RESTORATION
 - FULL DEPTH FDOT ROAD RESTORATION
 - FULL ROAD RESTORATION
 - MILL AND OVERLAY
- GENERAL NOTES:**

1. CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC).
2. CONTRACTOR TO MAINTAIN MINIMUM PIPE SLOPES PER MANATEE COUNTY STANDARDS*:
 - 8-INCH MIN SLOPE = 0.42%
 - 10-INCH MIN SLOPE = 0.28%
 - 12-INCH MIN SLOPE = 0.22%
3. CONTRACTOR TO MAINTAIN MINIMUM CLEARANCES PER FDEP F.A.C. RULE 62-55.314. SEE DETAIL ON SHEET D-03.
4. CONTRACTOR TO VERIFY EXISTING FIELD CONDITIONS BEFORE THE BEGINNING ANY CONSTRUCTION ACTIVITIES.
5. CONTRACTOR TO REMOVE ANY UNSUITABLE FILL MATERIALS AND BACKFILL WITH APPROVED MATERIAL PER MANATEE COUNTY SPECIFICATIONS.
6. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES AND PUMP STATIONS ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
7. CONTRACTOR TO INSTALL SANITARY SEWER CLEAN OUT AT THE BACK OF RIGHT-OF-WAY. CONTRACTOR TO EXERCISE CAUTION AND COORDINATE WITH FPL WHERE BURIED ELECTRIC IS PRESENT. IF A CONFLICT WITH THE NEW CLEAN OUT AND EXISTING BURIED ELECTRIC IS PRESENT, COORDINATE CLEAN OUT LOCATION WITH COUNTY INSPECTOR AND FPL.

***NOTES:**
 THE ELEVATIONS OF THE UTILITIES MARKED WITH AN ASTERISK (*) HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL ANTICIPATED SOIL COVERAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE PROPOSED SEWER MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT GRAVITY SEWER CONSTRUCTION, THE COST OF UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH THE CONSTRUCTION OF THE PROPOSED SANITARY SEWER. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO EFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

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

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



ADDENDUM #3	7/16/2021	MAS
No.	REVISIONS	DATE BY

Kimley Horn

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
 100 2ND AVE S, UNIT 105N, ST. PETERSBURG, FL 33701
 PHONE: 727-547-3999
 WWW.KIMLEY-HORN.COM Registry No. 696

KHA PROJECT 148400056
 DATE JULY 2021
 SCALE AS SHOWN
 DESIGNED BY MAS
 DRAWN BY KTM
 CHECKED BY WEW

Manatee County Florida

BRADENTON BEACH GRAVITY REPLACEMENT

MANATEE COUNTY

LICENSED PROFESSIONAL

MICHAEL A. SEMAGO, P.E.

FL LICENSE NUMBER 87501

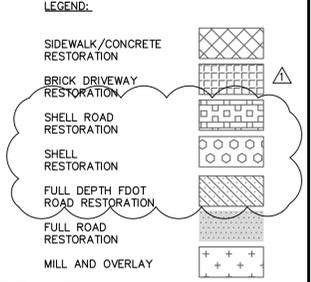
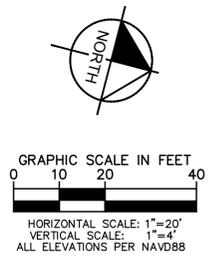
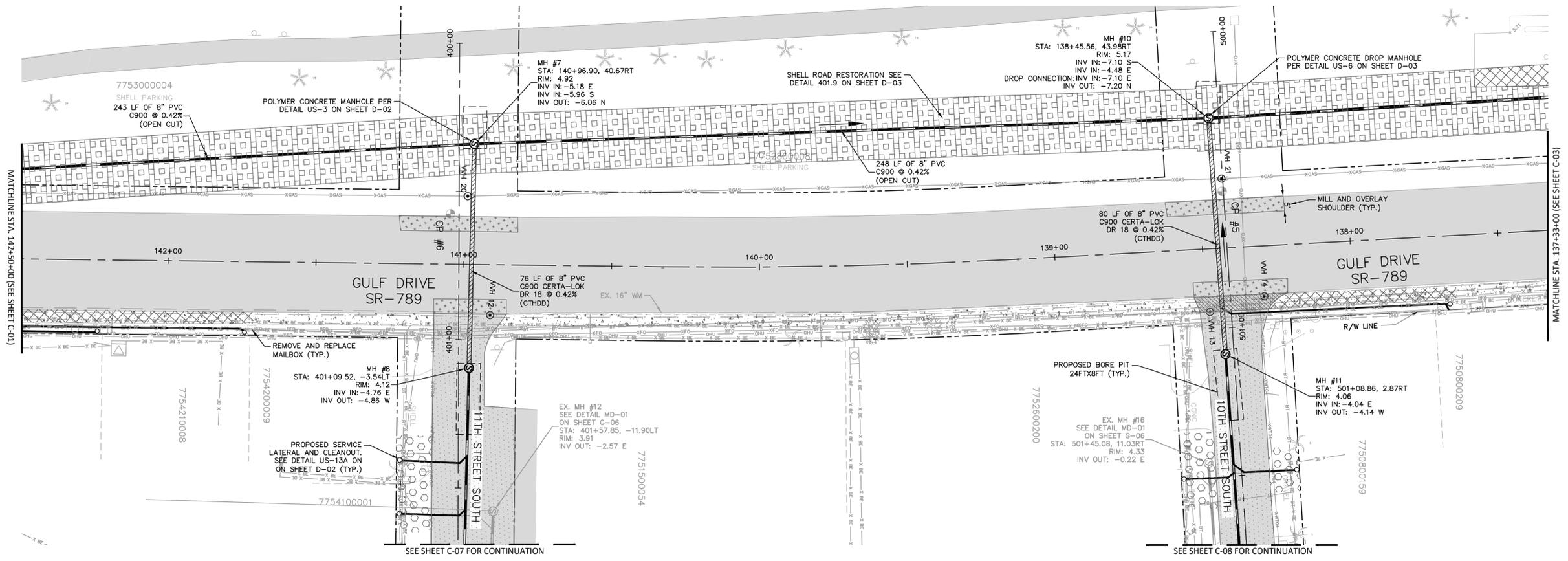
FL DATE:

GULF DRIVE S [STA. 147+25-142+50]

SHEET NUMBER

C-01

This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of any improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

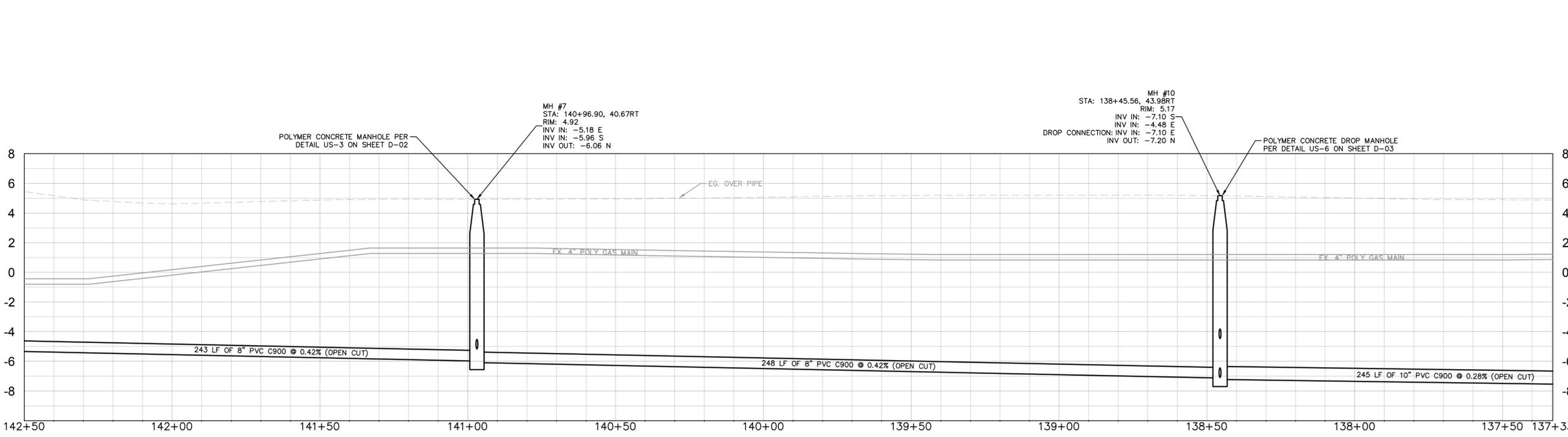


1. CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC).
2. CONTRACTOR TO MAINTAIN MINIMUM PIPE SLOPES PER MANATEE COUNTY STANDARDS:
 - 8-INCH MIN SLOPE = 0.42%
 - 10-INCH MIN SLOPE = 0.28%
 - 12-INCH MIN SLOPE = 0.22%
3. CONTRACTOR TO MAINTAIN MINIMUM CLEARANCES PER FDEP F.A.C. RULE 62-55.314. SEE DETAIL ON SHEET D-03.
4. CONTRACTOR TO VERIFY EXISTING FIELD CONDITIONS BEFORE THE BEGINNING ANY CONSTRUCTION ACTIVITIES.
5. CONTRACTOR TO REMOVE ANY UNSUITABLE FILL MATERIALS AND BACKFILL WITH APPROVED MATERIAL PER MANATEE COUNTY SPECIFICATIONS.
6. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES AND PUMP STATIONS ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
7. CONTRACTOR TO INSTALL SANITARY SEWER CLEAN OUT AT THE BACK OF RIGHT-OF-WAY. CONTRACTOR TO EXERCISE CAUTION AND COORDINATE WITH FPL WHERE BURIED ELECTRIC IS PRESENT. IF CONFLICT WITH THE NEW CLEAN OUT AND EXISTING BURIED ELECTRIC IS PRESENT, COORDINATE CLEAN OUT LOCATION WITH COUNTY INSPECTOR AND FPL.

***NOTES:**
 THE ELEVATIONS OF THE UTILITIES MARKED WITH AN ASTERISK (*) HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL ANTICIPATED SOIL COVERAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE PROPOSED SEWER MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT GRAVITY SEWER CONSTRUCTION, THE COST OF UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH THE CONSTRUCTION OF THE PROPOSED SANITARY SEWER. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO EFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

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

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



ADDENDUM #3	7/16/2021	MAS
No.	REVISIONS	DATE BY

Kimley & Horn

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
 100 2ND AVE S, UNIT 105N, ST. PETERSBURG, FL 33701
 PHONE: 727-547-3999
 WWW.KIMLEY-HORN.COM Registry No. 696

KHA PROJECT	148400056
DATE	JULY 2021
SCALE	AS SHOWN
DESIGNED BY	MAS
DRAWN BY	KTM
CHECKED BY	WEW

Manatee County

BRADENTON BEACH GRAVITY REPLACEMENT

MANATEE COUNTY

LICENSED PROFESSIONAL

MICHAEL A. SEMAGO, P.E.

FL LICENSE NUMBER 87501

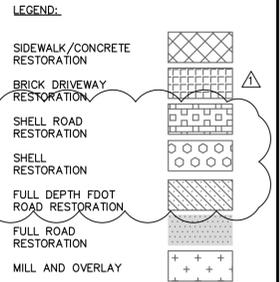
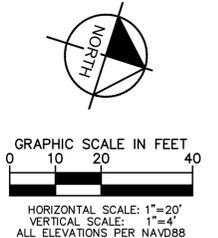
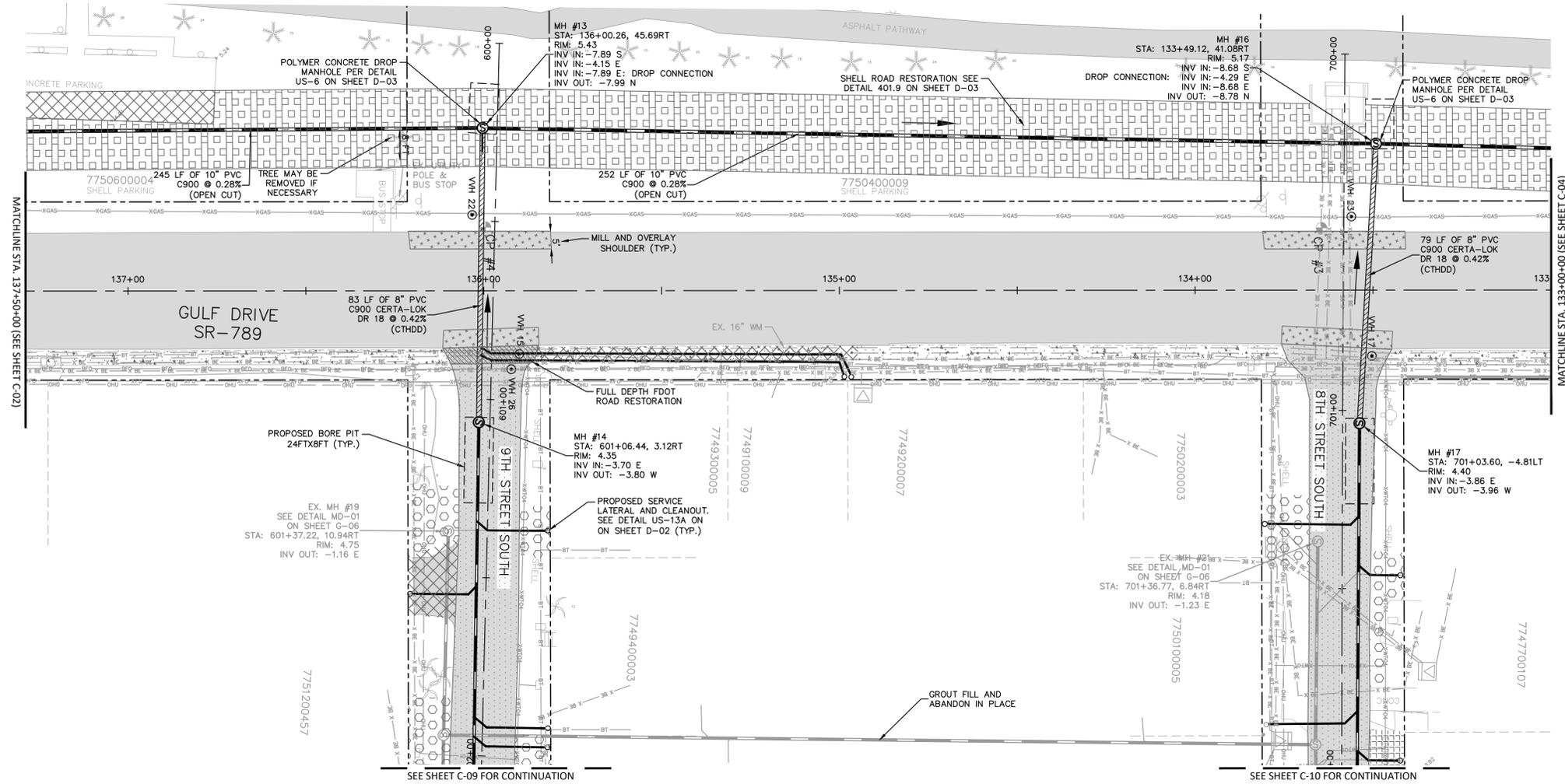
GULF DRIVE S [STA. 142+50-137+33]

SHEET NUMBER

C-02



This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of any improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

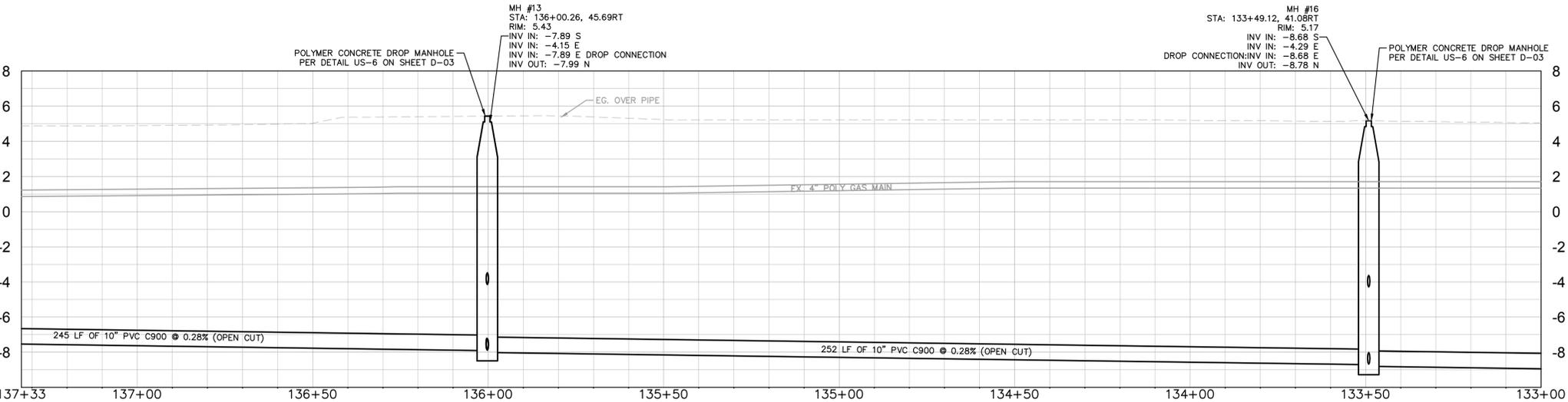


- GENERAL NOTES:**
- CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC).
 - CONTRACTOR TO MAINTAIN MINIMUM PIPE SLOPES PER MANATEE COUNTY STANDARDS:
 - 8-INCH MIN SLOPE = 0.42%
 - 10-INCH MIN SLOPE = 0.28%
 - 12-INCH MIN SLOPE = 0.22%
 - CONTRACTOR TO MAINTAIN MINIMUM CLEARANCES PER FDEP F.A.C. RULE 62-55.314. SEE DETAIL ON SHEET D-03.
 - CONTRACTOR TO VERIFY EXISTING FIELD CONDITIONS BEFORE THE BEGINNING ANY CONSTRUCTION ACTIVITIES.
 - CONTRACTOR TO REMOVE ANY UNSUITABLE FILL MATERIALS AND BACKFILL WITH APPROVED MATERIAL PER MANATEE COUNTY SPECIFICATIONS.
 - ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES AND PUMP STATIONS ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
 - CONTRACTOR TO INSTALL SANITARY SEWER CLEAN OUT AT THE BACK OF RIGHT-OF-WAY. CONTRACTOR TO EXERCISE CAUTION AND COORDINATE WITH FPL WHERE BURIED ELECTRIC IS PRESENT. IF CONFLICT WITH THE NEW CLEAN OUT AND EXISTING BURIED ELECTRIC IS PRESENT, COORDINATE CLEAN OUT LOCATION WITH COUNTY INSPECTOR AND FPL.

***NOTES:**
 THE ELEVATIONS OF THE UTILITIES MARKED WITH AN ASTERISK (*) HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL ANTICIPATED SOIL COVERAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE PROPOSED SEWER MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT GRAVITY SEWER CONSTRUCTION, THE COST OF UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH THE CONSTRUCTION OF THE PROPOSED SANITARY SEWER. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO EFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

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

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



ADDENDUM #3	7/16/2021	MAS
No.	REVISIONS	DATE BY

Kimley & Horn

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
 100 2ND AVE S, UNIT 105N, ST. PETERSBURG, FL 33701
 PHONE: 727-547-3999
 WWW.KIMLEY-HORN.COM Registry No. 696

KHA PROJECT 148400056
 DATE JULY 2021
 SCALE AS SHOWN
 DESIGNED BY MAS
 DRAWN BY KTM
 CHECKED BY WEW

Manatee County

BRADENTON BEACH GRAVITY REPLACEMENT

MANATEE COUNTY

LICENSED PROFESSIONAL

MICHAEL A. SEMAGO, P.E.

FL LICENSE NUMBER 87501

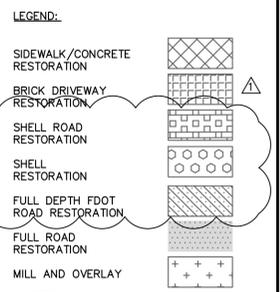
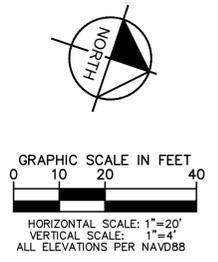
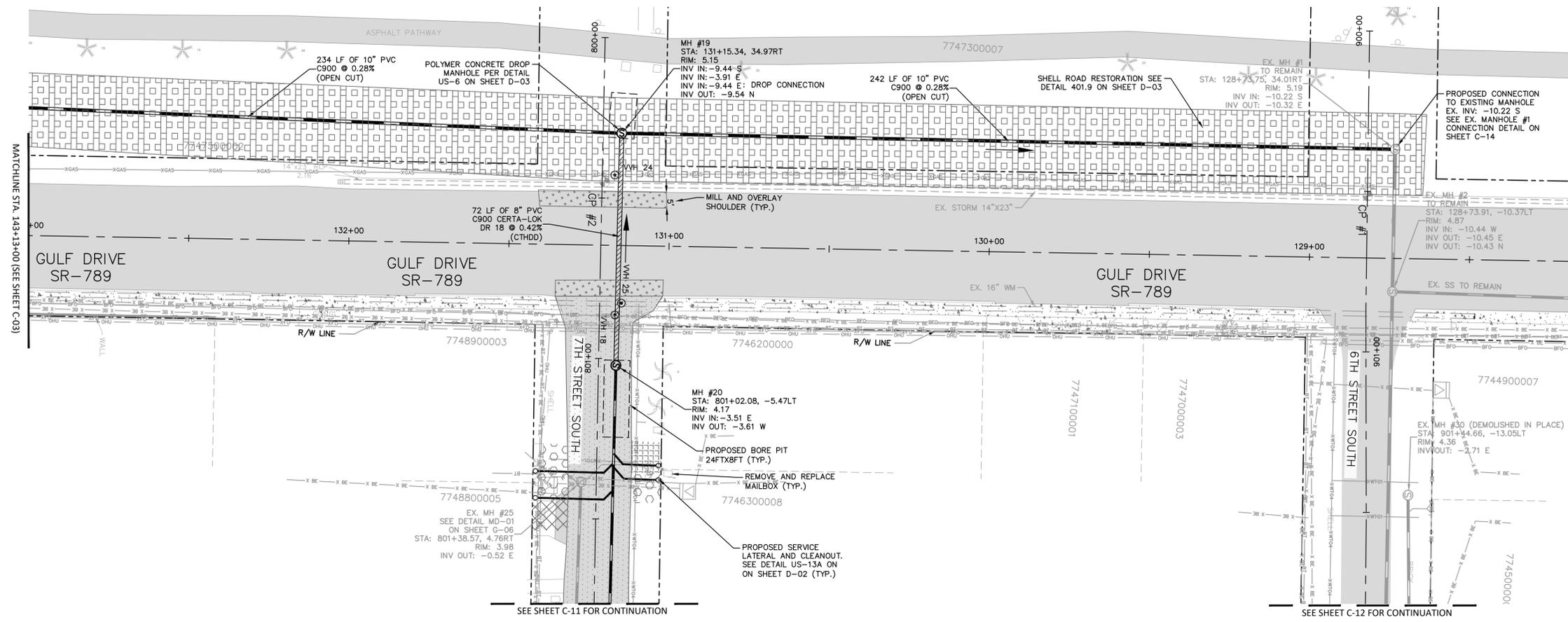
FL DATE:

GULF DRIVE S [STA. 137+33-133+00]

SHEET NUMBER **C-03**



This document, together with the concepts and designs presented herein, is an instrument of service intended only for the specific purpose and client for which it was prepared. Reuse of any improper reference on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

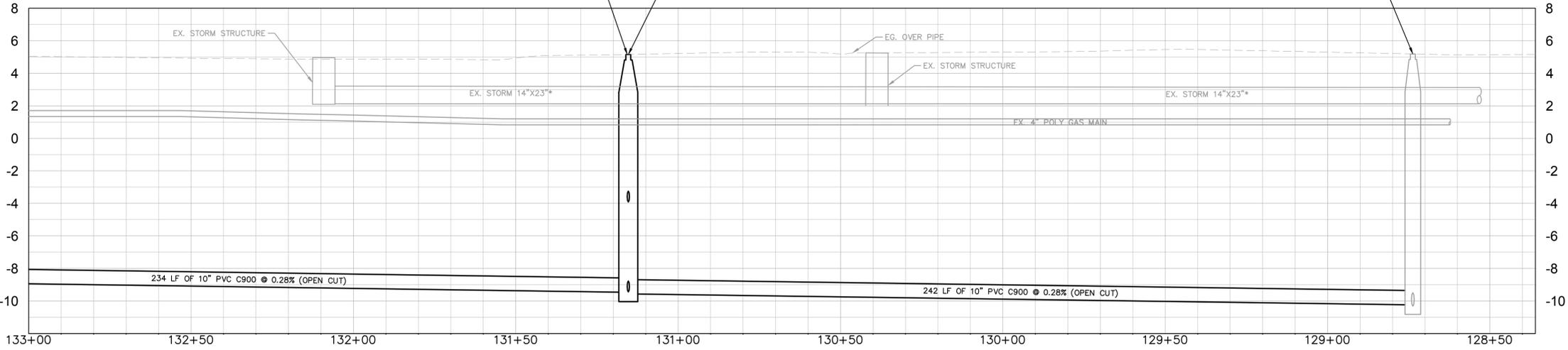


- GENERAL NOTES:**
- CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (F.A.C).
 - CONTRACTOR TO MAINTAIN MINIMUM PIPE SLOPES PER MANATEE COUNTY STANDARDS:
 - 8-INCH MIN SLOPE = 0.42%
 - 10-INCH MIN SLOPE = 0.28%
 - 12-INCH MIN SLOPE = 0.22%
 - CONTRACTOR TO MAINTAIN MINIMUM CLEARANCES PER FDEP F.A.C. RULE 62-55.314. SEE DETAIL ON SHEET D-03
 - CONTRACTOR TO VERIFY EXISTING FIELD CONDITIONS BEFORE THE BEGINNING ANY CONSTRUCTION ACTIVITIES
 - CONTRACTOR TO REMOVE ANY UNSUITABLE FILL MATERIALS AND BACKFILL WITH APPROVED MATERIAL PER MANATEE COUNTY SPECIFICATIONS.
 - ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES AND PUMP STATIONS ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS
 - CONTRACTOR TO INSTALL SANITARY SEWER CLEAN OUT AT THE BACK OF RIGHT-OF-WAY. CONTRACTOR TO EXERCISE CAUTION AND COORDINATE WITH FPL WHERE BURIED ELECTRIC IS PRESENT. IF A CONFLICT WITH THE NEW CLEAN OUT AND EXISTING BURIED ELECTRIC IS PRESENT, COORDINATE CLEAN OUT LOCATION WITH COUNTY INSPECTOR AND FPL

***NOTES:**
 THE ELEVATIONS OF THE UTILITIES MARKED WITH AN ASTERISK (*) HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL ANTICIPATED SOIL COVERAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE PROPOSED SEWER MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT GRAVITY SEWER CONSTRUCTION, THE COST OF UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH THE CONSTRUCTION OF THE PROPOSED SANITARY SEWER. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO EFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

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

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



ADDENDUM #3	7/16/2021	MAS
No.	REVISIONS	DATE BY

Kimley & Horn

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
 100 2ND AVE S, UNIT 105N, ST. PETERSBURG, FL 33701
 PHONE: 727-547-3999
 WWW.KIMLEY-HORN.COM Registry No. 696

KHA PROJECT 148400056
 DATE JULY 2021
 SCALE AS SHOWN
 DESIGNED BY MAS
 DRAWN BY KTM
 CHECKED BY WEW

Manatee County
 BRADENTON BEACH GRAVITY REPLACEMENT

MANATEE COUNTY

LICENSED PROFESSIONAL
 MICHAEL A. SEMAGO, P.E.
 FL LICENSE NUMBER 87501

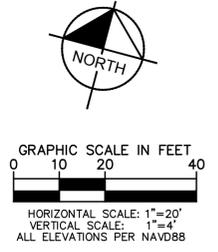
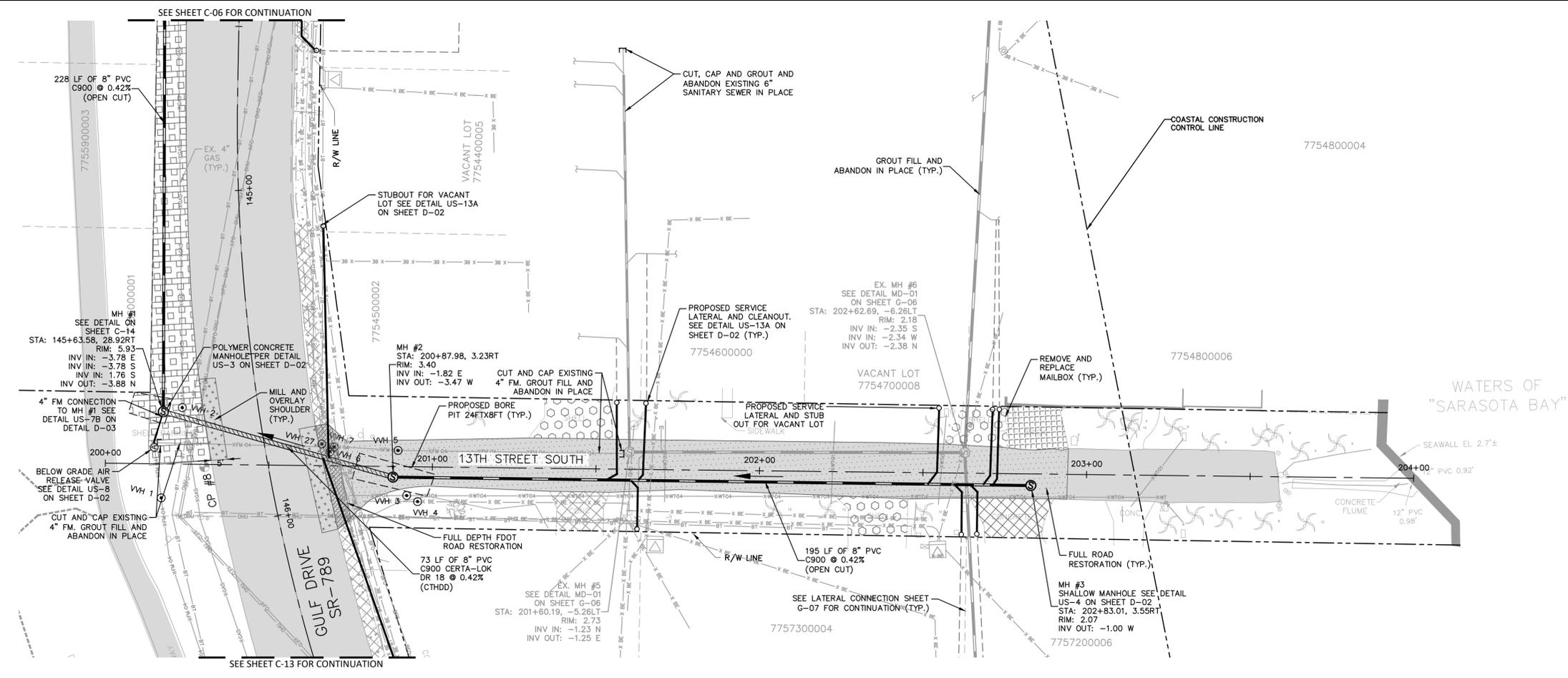
GULF DRIVE S [STA. 133+00-128+36]

FL DATE:

SHEET NUMBER
C-04

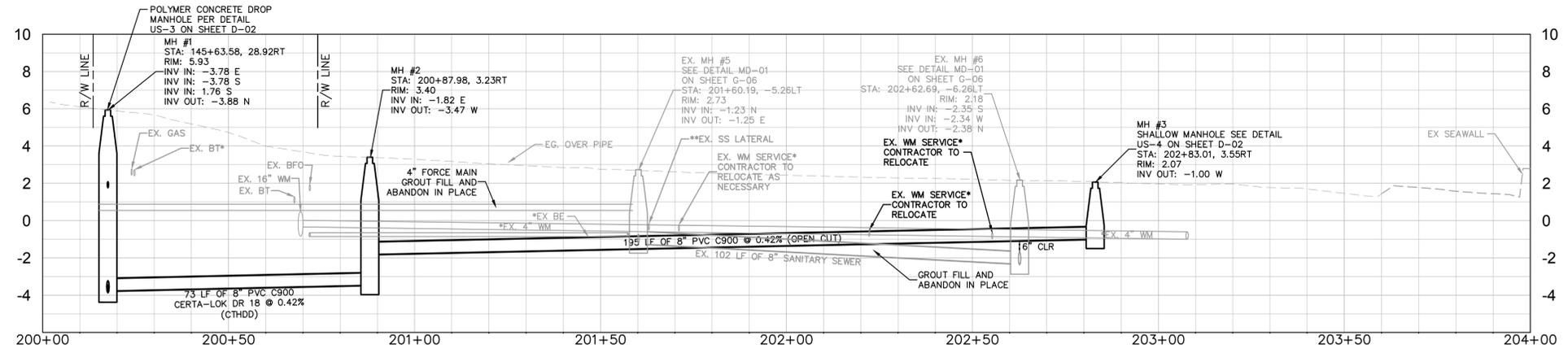


This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of any improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



- LEGEND:**
- SIDEWALK/CONCRETE RESTORATION [Pattern]
 - BRICK DRIVEWAY RESTORATION [Pattern]
 - SHELL ROAD RESTORATION [Pattern]
 - SHELL RESTORATION [Pattern]
 - FULL DEPTH FDOT ROAD RESTORATION [Pattern]
 - FULL ROAD RESTORATION [Pattern]
 - MILL AND OVERLAY [Pattern]
- GENERAL NOTES:**

1. CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC).
2. CONTRACTOR TO MAINTAIN MINIMUM PIPE SLOPES PER MANATEE COUNTY STANDARDS*:
 - 8-INCH MIN SLOPE = 0.42%
 - 10-INCH MIN SLOPE = 0.28%
 - 12-INCH MIN SLOPE = 0.22%
3. CONTRACTOR TO MAINTAIN MINIMUM CLEARANCES PER FDEP F.A.C. RULE 62-55.314. SEE DETAIL ON SHEET D-03.
4. CONTRACTOR TO VERIFY EXISTING FIELD CONDITIONS BEFORE THE BEGINNING ANY CONSTRUCTION ACTIVITIES.
5. CONTRACTOR TO REMOVE ANY UNSUITABLE FILL MATERIALS AND BACKFILL WITH APPROVED MATERIAL PER MANATEE COUNTY SPECIFICATIONS.
6. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES AND PUMP STATIONS ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
7. ALL ELEVATIONS PER NAVD88.
8. CONTRACTOR TO INSTALL SANITARY SEWER CLEAN OUT AT THE BACK OF RIGHT-OF-WAY. CONTRACTOR TO EXERCISE CAUTION AND COORDINATE WITH FPL WHERE BURIED ELECTRIC IS PRESENT. IF ANY CONFLICT WITH THE NEW CLEAN OUT AND EXISTING BURIED ELECTRIC IS PRESENT, COORDINATE CLEAN OUT LOCATION WITH COUNTY INSPECTOR AND FPL.



***NOTES:**
THE ELEVATIONS OF THE UTILITIES MARKED WITH AN ASTERISK (*) HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL ANTICIPATED SOIL COVERAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE PROPOSED SEWER MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT GRAVITY SEWER CONSTRUCTION, THE COST OF UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH THE CONSTRUCTION OF THE PROPOSED SANITARY SEWER. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO EFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

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

****NOTES:**
THE ELEVATIONS OF THE EXISTING SANITARY SEWER LATERALS MARKED WITH TWO (2) ASTERISK (**) HAVE BEEN ASSUMED ON THE BASIS OF CCTV & FIELD INVESTIGATIONS MADE BY MANATEE COUNTY. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL SANITARY SEWER LATERALS CROSSING THE PROPOSED SEWER MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT GRAVITY SEWER CONSTRUCTION, THE COST OF MODIFICATIONS/ADJUSTMENTS NECESSARY FOR CONSTRUCTION OF THE PROPOSED SANITARY SEWER. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO AFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

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



No.	REVISIONS	DATE	BY

Kimley & Horn

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
100 2ND AVE S, UNIT 105N, ST. PETERSBURG, FL 33701
PHONE: 727-547-3999
WWW.KIMLEY-HORN.COM Registry No. 696

KHA PROJECT 148400056
DATE JULY 2021
SCALE AS SHOWN
DESIGNED BY MAS
DRAWN BY KTM
CHECKED BY WEW

Manatee County
FLORIDA

BRADENTON BEACH GRAVITY REPLACEMENT

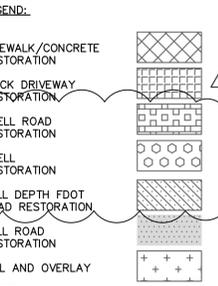
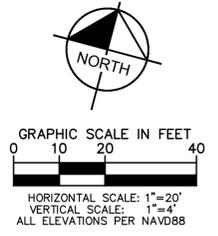
MANATEE COUNTY

LICENSED PROFESSIONAL
MICHAEL A. SEMAGO, P.E.
FL LICENSE NUMBER 87501

13TH STREET S [STA. 200+00-204+00]

SHEET NUMBER
C-05

This document, together with the concepts and designs presented herein, is an instrument of service intended only for the specific purpose and client for which it was prepared. Reuse of any improper reference on this document without written authorization and approval by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



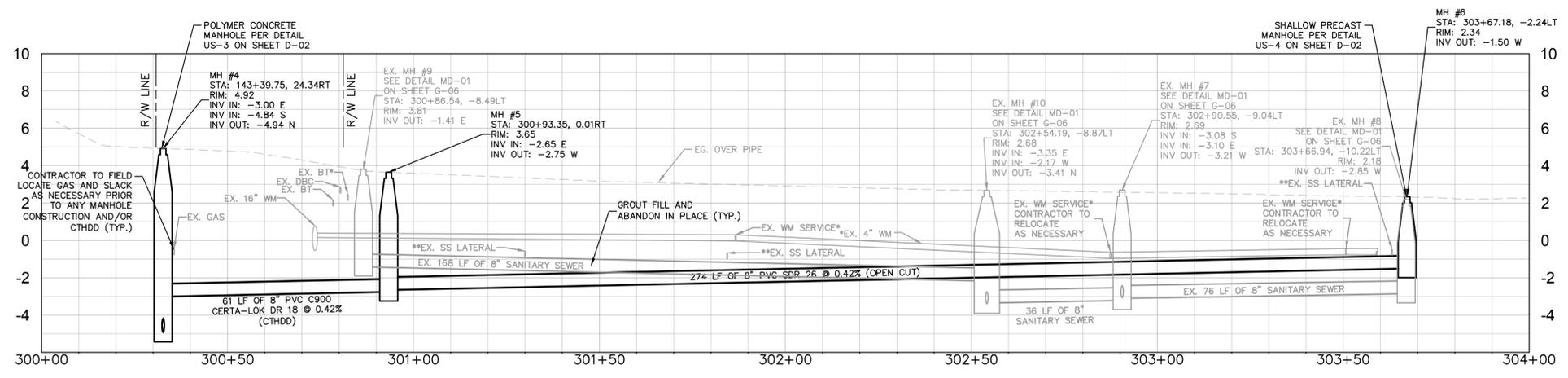
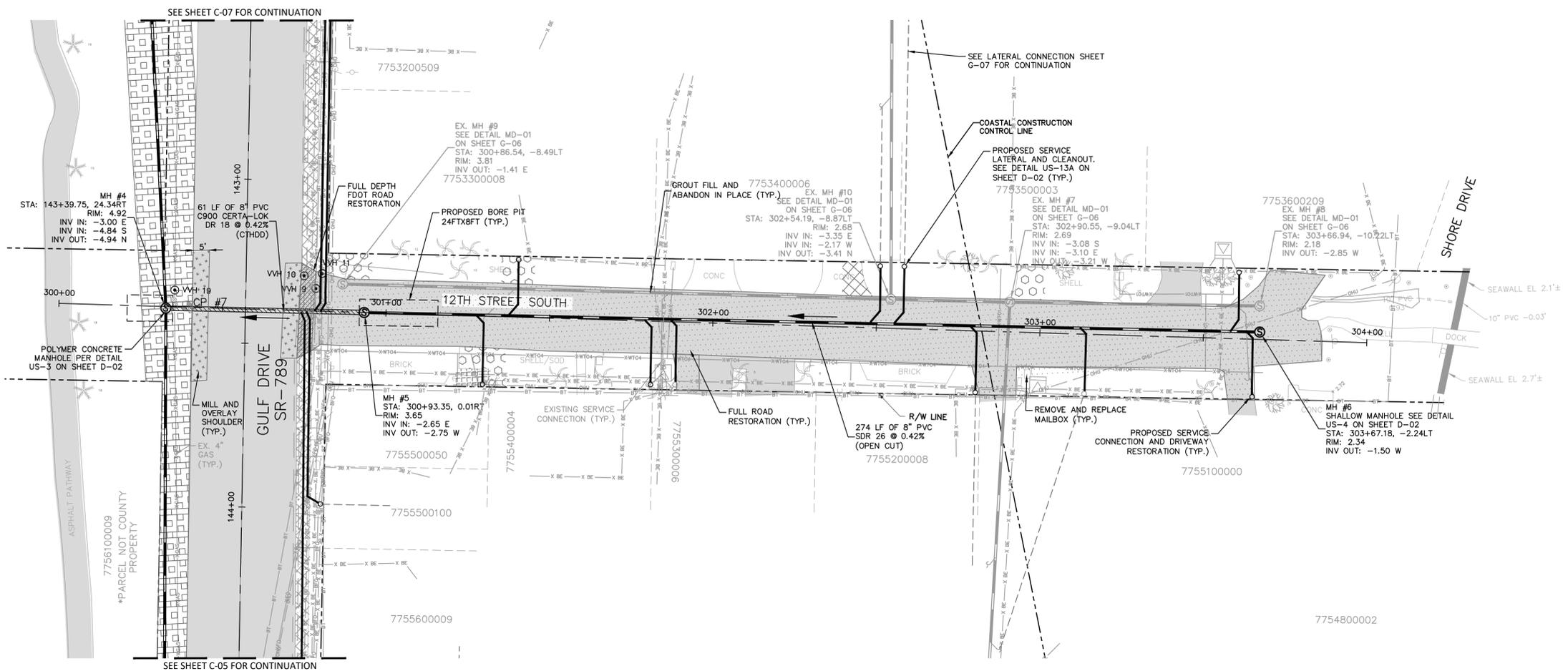
- GENERAL NOTES:**
- CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC).
 - CONTRACTOR TO MAINTAIN MINIMUM PIPE SLOPES PER MANATEE COUNTY STANDARDS:
 - 8-INCH MIN SLOPE = 0.42%
 - 10-INCH MIN SLOPE = 0.28%
 - 12-INCH MIN SLOPE = 0.22%
 - CONTRACTOR TO MAINTAIN MINIMUM CLEARANCES PER FDEP F.A.C. RULE 62-55.314. SEE DETAIL ON SHEET D-03.
 - CONTRACTOR TO VERIFY EXISTING FIELD CONDITIONS BEFORE THE BEGINNING ANY CONSTRUCTION ACTIVITIES.
 - CONTRACTOR TO REMOVE ANY UNSUITABLE FILL MATERIALS AND BACKFILL WITH APPROVED MATERIAL PER MANATEE COUNTY SPECIFICATIONS.
 - ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES AND PUMP STATIONS ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
 - CONTRACTOR TO INSTALL SANITARY SEWER CLEAN OUT AT THE BACK OF RIGHT-OF-WAY. CONTRACTOR TO EXERCISE CAUTION AND COORDINATE WITH FPL WHERE BURIED ELECTRIC IS PRESENT. IF CONFLICT WITH THE NEW CLEAN OUT AND EXISTING BURIED ELECTRIC IS PRESENT, COORDINATE CLEAN OUT LOCATION WITH COUNTY INSPECTOR AND FPL.

***NOTES:**
THE ELEVATIONS OF THE UTILITIES MARKED WITH AN ASTERISK (*) HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL ANTICIPATED SOIL COVERAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE PROPOSED SEWER MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT GRAVITY SEWER CONSTRUCTION, THE COST OF UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH THE CONSTRUCTION OF THE PROPOSED SANITARY SEWER. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO EFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

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

****NOTES:**
THE ELEVATIONS OF THE EXISTING SANITARY SEWER LATERALS MARKED WITH TWO (2) ASTERISK (**) HAVE BEEN ASSUMED ON THE BASIS OF CCTV & FIELD INVESTIGATIONS MADE BY MANATEE COUNTY. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL SANITARY SEWER LATERALS CROSSING THE PROPOSED SEWER MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT GRAVITY SEWER CONSTRUCTION, THE COST OF MODIFICATIONS/ADJUSTMENTS NECESSARY FOR CONSTRUCTION OF THE PROPOSED SANITARY SEWER. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO AFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

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



ADDENDUM #3	7/16/2021	MAS
No.	REVISIONS	DATE BY

Kimley & Horn

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
100 2ND AVE S, UNIT 105N, ST. PETERSBURG, FL 33701
PHONE: 727-547-3999
WWW.KIMLEY-HORN.COM Registry No. 696

KHA PROJECT 148400056
DATE JULY 2021
SCALE AS SHOWN
DESIGNED BY MAS
DRAWN BY KTM
CHECKED BY WEW

Manatee County
FLORIDA

BRADENTON BEACH GRAVITY REPLACEMENT

LICENSED PROFESSIONAL
MICHAEL A. SEMAGO, P.E.
FL LICENSE NUMBER 87501

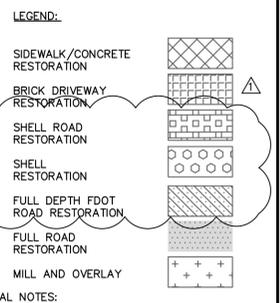
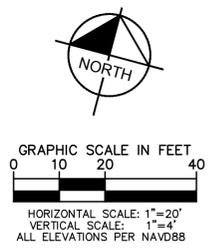
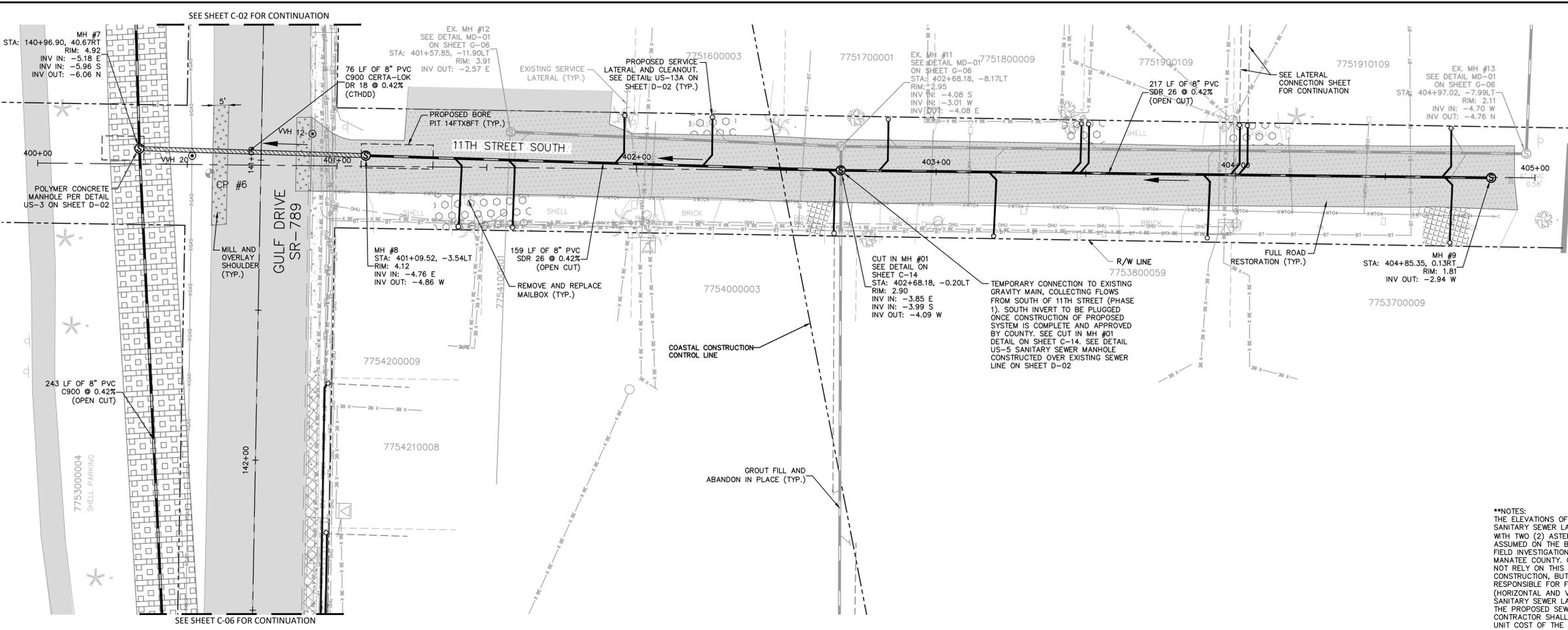
MANATEE COUNTY FL DATE:

SHEET NUMBER

12TH STREET S [STA. 300+00-304+00]

C-06

This document, together with the concepts and designs presented herein, is an instrument of service intended only for the specific purpose and client for which it was prepared. Reuse of any improper reference on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



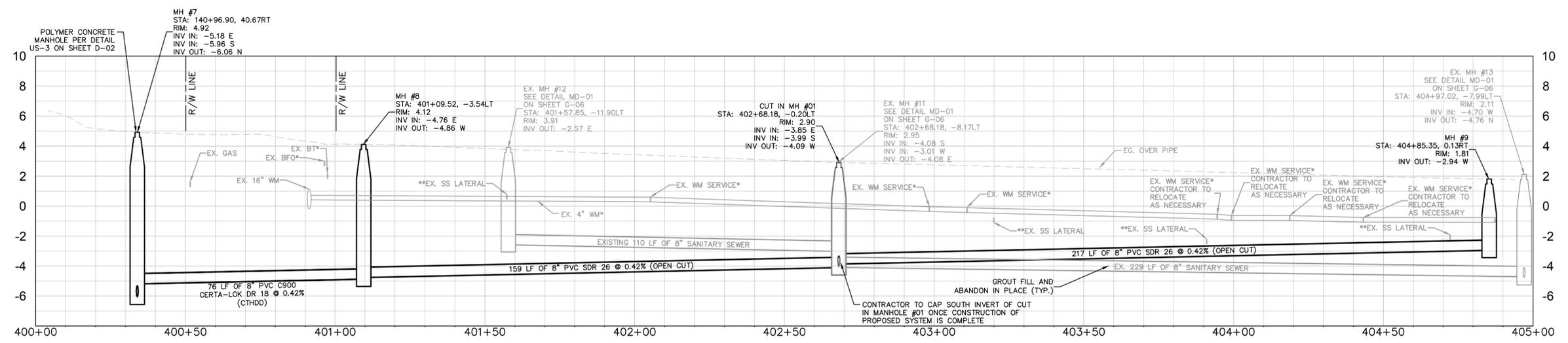
- GENERAL NOTES:**
- CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC). CONTRACTOR TO MAINTAIN MINIMUM PIPE SLOPES PER MANATEE COUNTY STANDARDS*:
 - 8-INCH MIN SLOPE = 0.42%
 - 10-INCH MIN SLOPE = 0.28%
 - 12-INCH MIN SLOPE = 0.22%
 - CONTRACTOR TO MAINTAIN MINIMUM CLEARANCES PER FDEP F.A.C. RULE 62-55.314. SEE DETAIL ON SHEET D-03.
 - CONTRACTOR TO VERIFY EXISTING FIELD CONDITIONS BEFORE THE BEGINNING ANY CONSTRUCTION ACTIVITIES.
 - CONTRACTOR TO REMOVE ANY UNSUITABLE FILL MATERIALS AND BACKFILL WITH APPROVED MATERIAL PER MANATEE COUNTY SPECIFICATIONS.
 - ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES AND PUMP STATIONS ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
 - CONTRACTOR TO INSTALL SANITARY SEWER CLEAN OUT AT THE BACK OF RIGHT-OF-WAY. CONTRACTOR TO EXERCISE CAUTION AND COORDINATE WITH FPL WHERE BURIED ELECTRIC IS PRESENT. IF A CONFLICT WITH THE NEW CLEAN OUT AND EXISTING BURIED ELECTRIC IS PRESENT, COORDINATE CLEAN OUT LOCATION WITH COUNTY INSPECTOR AND FPL.

****NOTES:**
 THE ELEVATIONS OF THE EXISTING SANITARY SEWER LATERALS MARKED WITH TWO (2) ASTERISK (**) HAVE BEEN ASSUMED ON THE BASIS OF CCTV & FIELD INVESTIGATIONS MADE BY MANATEE COUNTY. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL SANITARY SEWER LATERALS CROSSING THE PROPOSED SEWER MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT SEWER CONSTRUCTION, THE COST OF MODIFICATIONS/ADJUSTMENTS NECESSARY FOR CONSTRUCTION OF THE PROPOSED SANITARY SEWER. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO AFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

***NOTES:**
 THE ELEVATIONS OF THE UTILITIES MARKED WITH AN ASTERISK (*) HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL ANTICIPATED SOIL COVERAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE PROPOSED SEWER MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT GRAVITY SEWER CONSTRUCTION, THE COST OF UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH THE CONSTRUCTION OF THE PROPOSED SANITARY SEWER. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO AFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

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

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



ADDENDUM #3	7/16/2021	MAS
No.	REVISIONS	DATE BY

Kimley & Horn

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
 100 2ND AVE S, UNIT 105N, ST. PETERSBURG, FL 33701
 PHONE: 727-547-3999
 WWW.KIMLEY-HORN.COM Registry No. 696

KHA PROJECT 148400056
 DATE JULY 2021
 SCALE AS SHOWN
 DESIGNED BY MAS
 DRAWN BY KTM
 CHECKED BY WEW

Manatee County Florida

BRADENTON BEACH GRAVITY REPLACEMENT

LICENSED PROFESSIONAL
 MICHAEL A. SEMAGO, P.E.
 FL LICENSE NUMBER 87501

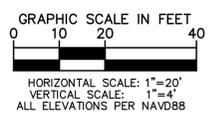
FL DATE: _____

SHEET NUMBER

11TH STREET S [STA. 400+00-405+00]

C-07





- LEGEND:**
- SIDEWALK/CONCRETE RESTORATION
 - BRICK DRIVEWAY RESTORATION
 - SHELL ROAD RESTORATION
 - SHELL RESTORATION
 - FULL DEPTH FDOT ROAD RESTORATION
 - FULL ROAD RESTORATION
 - MILL AND OVERLAY

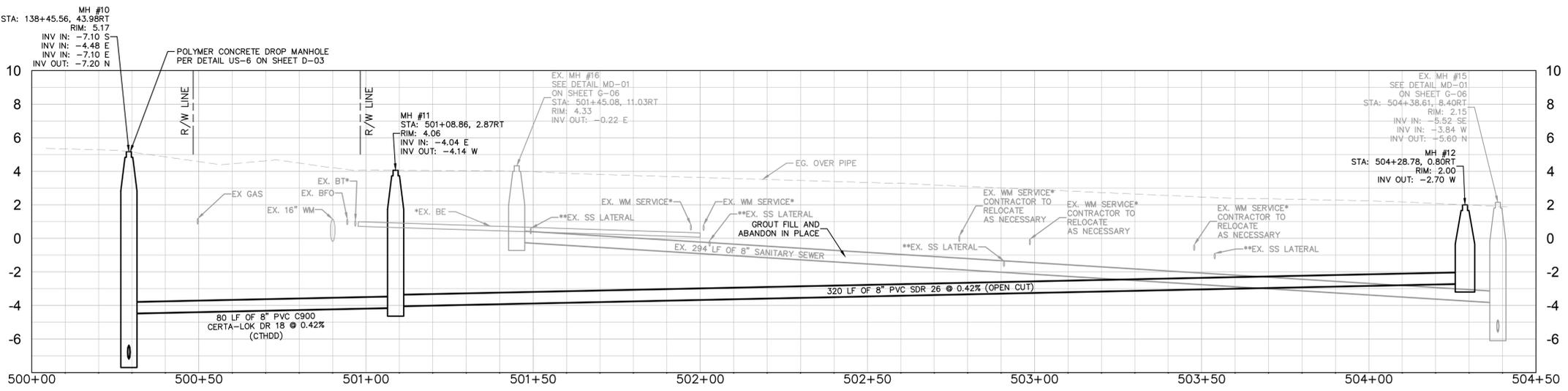
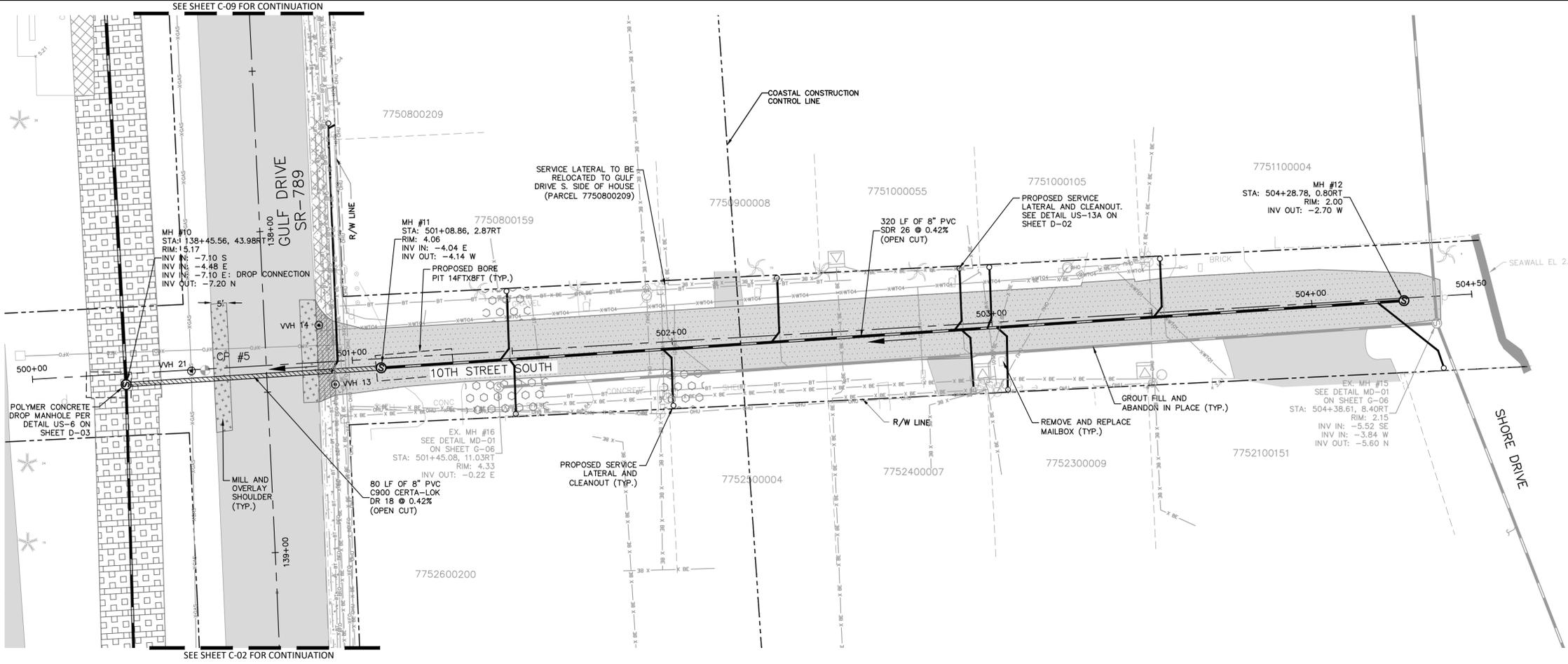
- GENERAL NOTES:**
- CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC).
 - CONTRACTOR TO MAINTAIN MINIMUM PIPE SLOPES PER MANATEE COUNTY STANDARDS:
 - 8-INCH MIN SLOPE = 0.42%
 - 10-INCH MIN SLOPE = 0.28%
 - 12-INCH MIN SLOPE = 0.22%
 - CONTRACTOR TO MAINTAIN MINIMUM CLEARANCES PER FDEP F.A.C. RULE 62-55.314. SEE DETAIL ON SHEET D-03
 - CONTRACTOR TO VERIFY EXISTING FIELD CONDITIONS BEFORE THE BEGINNING ANY CONSTRUCTION ACTIVITIES
 - CONTRACTOR TO REMOVE ANY UNSUITABLE FILL MATERIALS AND BACKFILL WITH APPROVED MATERIAL PER MANATEE COUNTY SPECIFICATIONS.
 - ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES AND PUMP STATIONS ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS
 - ALL ELEVATIONS PER NAVD88
 - CONTRACTOR TO INSTALL SANITARY SEWER CLEAN OUT AT THE BACK OF RIGHT-OF-WAY. CONTRACTOR TO EXERCISE CAUTION AND COORDINATE WITH FPL WHERE BURIED ELECTRIC IS PRESENT. IF A CONFLICT WITH THE NEW CLEAN OUT AND EXISTING BURIED ELECTRIC IS PRESENT, COORDINATE CLEAN OUT LOCATION WITH COUNTY INSPECTOR AND FPL

***NOTES:**
THE ELEVATIONS OF THE UTILITIES MARKED WITH AN ASTERISK (*) HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL ANTICIPATED SOIL COVERAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE PROPOSED SEWER MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT GRAVITY SEWER CONSTRUCTION, THE COST OF UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH THE CONSTRUCTION OF THE PROPOSED SANITARY SEWER. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO EFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

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

****NOTES:**
THE ELEVATIONS OF THE EXISTING SANITARY SEWER LATERALS MARKED WITH TWO (2) ASTERISK (**) HAVE BEEN ASSUMED ON THE BASIS OF CCTV & FIELD INVESTIGATIONS MADE BY MANATEE COUNTY. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL SANITARY SEWER LATERALS CROSSING THE PROPOSED SEWER MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT GRAVITY SEWER CONSTRUCTION, THE COST OF MODIFICATIONS/ADJUSTMENTS NECESSARY FOR CONSTRUCTION OF THE PROPOSED SANITARY SEWER. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO EFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

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



This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of any improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

ADDENDUM #3	7/16/2021	MAS
No.	REVISIONS	DATE BY

Kimley >>> Horn

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
100 2ND AVE S, UNIT 105N, ST. PETERSBURG, FL 33701
PHONE: 727-547-3999
WWW.KIMLEY-HORN.COM Registry No. 696

KHA PROJECT 148400056
DATE JULY 2021
SCALE AS SHOWN
DESIGNED BY MAS
DRAWN BY KTM
CHECKED BY WEW

Manatee County
FLORIDA

BRADENTON BEACH GRAVITY REPLACEMENT

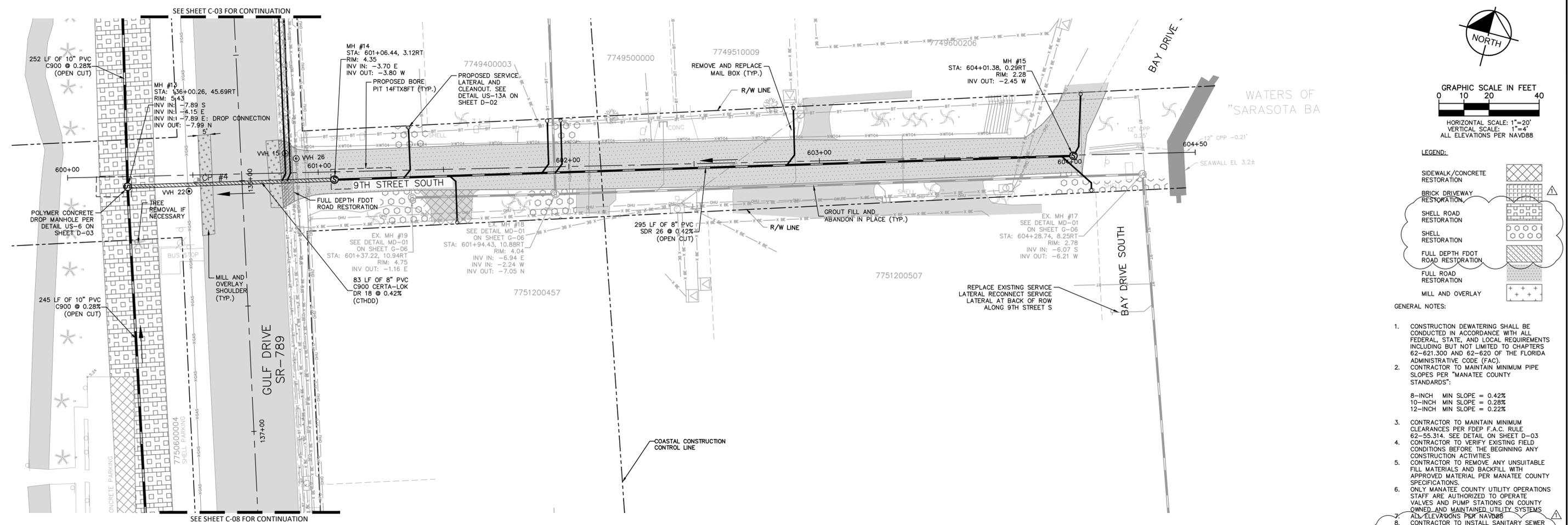
LICENSED PROFESSIONAL
MICHAEL A. SEMAGO, P.E.
FL LICENSE NUMBER 87501

MANATEE COUNTY FL DATE:

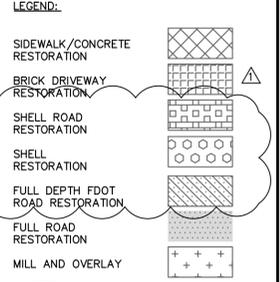
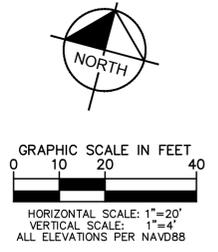
10TH STREET S [STA. 500+00-504+50]

SHEET NUMBER
C-08

This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of any information contained herein, in whole or in part, without the written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



WATERS OF
"SARASOTA BA"



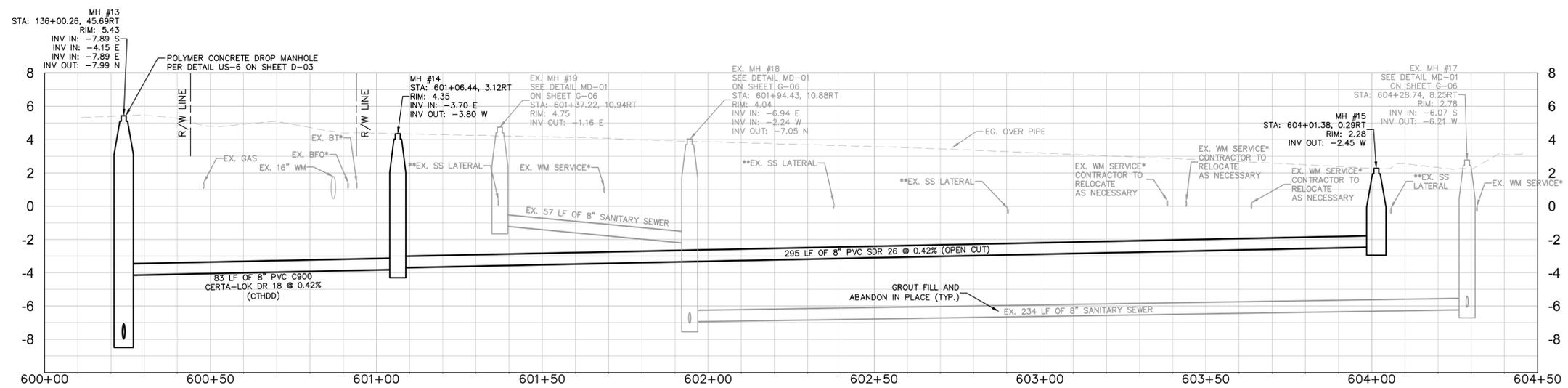
1. CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC).
2. CONTRACTOR TO MAINTAIN MINIMUM PIPE SLOPES PER MANATEE COUNTY STANDARDS*:
 - 8-INCH MIN SLOPE = 0.42%
 - 10-INCH MIN SLOPE = 0.28%
 - 12-INCH MIN SLOPE = 0.22%
3. CONTRACTOR TO MAINTAIN MINIMUM CLEARANCES PER FDEP F.A.C. RULE 62-55.314. SEE DETAIL ON SHEET D-03.
4. CONTRACTOR TO VERIFY EXISTING FIELD CONDITIONS BEFORE THE BEGINNING ANY CONSTRUCTION ACTIVITIES.
5. CONTRACTOR TO REMOVE ANY UNSUITABLE FILL MATERIALS AND BACKFILL WITH APPROVED MATERIAL PER MANATEE COUNTY SPECIFICATIONS.
6. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES AND PUMP STATIONS ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
7. CONTRACTOR TO INSTALL SANITARY SEWER CLEAN OUT AT THE BACK OF RIGHT-OF-WAY. CONTRACTOR TO EXERCISE CAUTION AND COORDINATE WITH FPL WHERE BURIED ELECTRIC IS PRESENT. IF A CONFLICT WITH THE NEW CLEAN OUT AND EXISTING BURIED ELECTRIC IS PRESENT, COORDINATE CLEAN OUT LOCATION WITH COUNTY INSPECTOR AND FPL.

***NOTES:**
THE ELEVATIONS OF THE UTILITIES MARKED WITH AN ASTERISK (*) HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL ANTICIPATED SOIL COVERAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE PROPOSED SEWER MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT GRAVITY SEWER CONSTRUCTION, THE COST OF UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH THE CONSTRUCTION OF THE PROPOSED SANITARY SEWER. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO EFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

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

****NOTES:**
THE ELEVATIONS OF THE EXISTING SANITARY SEWER LATERALS MARKED WITH TWO (2) ASTERISK (**) HAVE BEEN ASSUMED ON THE BASIS OF CCTV & FIELD INVESTIGATIONS MADE BY MANATEE COUNTY. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL SANITARY SEWER LATERALS CROSSING THE PROPOSED SEWER MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT GRAVITY SEWER CONSTRUCTION, THE COST OF MODIFICATIONS/ADJUSTMENTS NECESSARY FOR CONSTRUCTION OF THE PROPOSED SANITARY SEWER. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO EFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

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



ADDENDUM #3	7/16/2021	MAS
No.	REVISIONS	DATE BY

Kimley & Horn

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
100 2ND AVE S, UNIT 105N, ST. PETERSBURG, FL 33701
PHONE: 727-547-3999
WWW.KIMLEY-HORN.COM Registry No. 696

KHA PROJECT
148400056

DATE
JULY 2021

SCALE AS SHOWN

DESIGNED BY MAS

DRAWN BY KTM

CHECKED BY WEW

MANATEE COUNTY

Manatee County

BRADENTON BEACH GRAVITY REPLACEMENT

LICENSED PROFESSIONAL

MICHAEL A. SEMAGO, P.E.

FL LICENSE NUMBER
87501

FL DATE:

LICENSED PROFESSIONAL

MICHAEL A. SEMAGO, P.E.

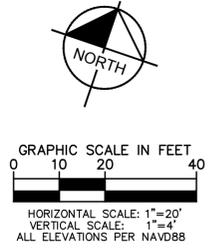
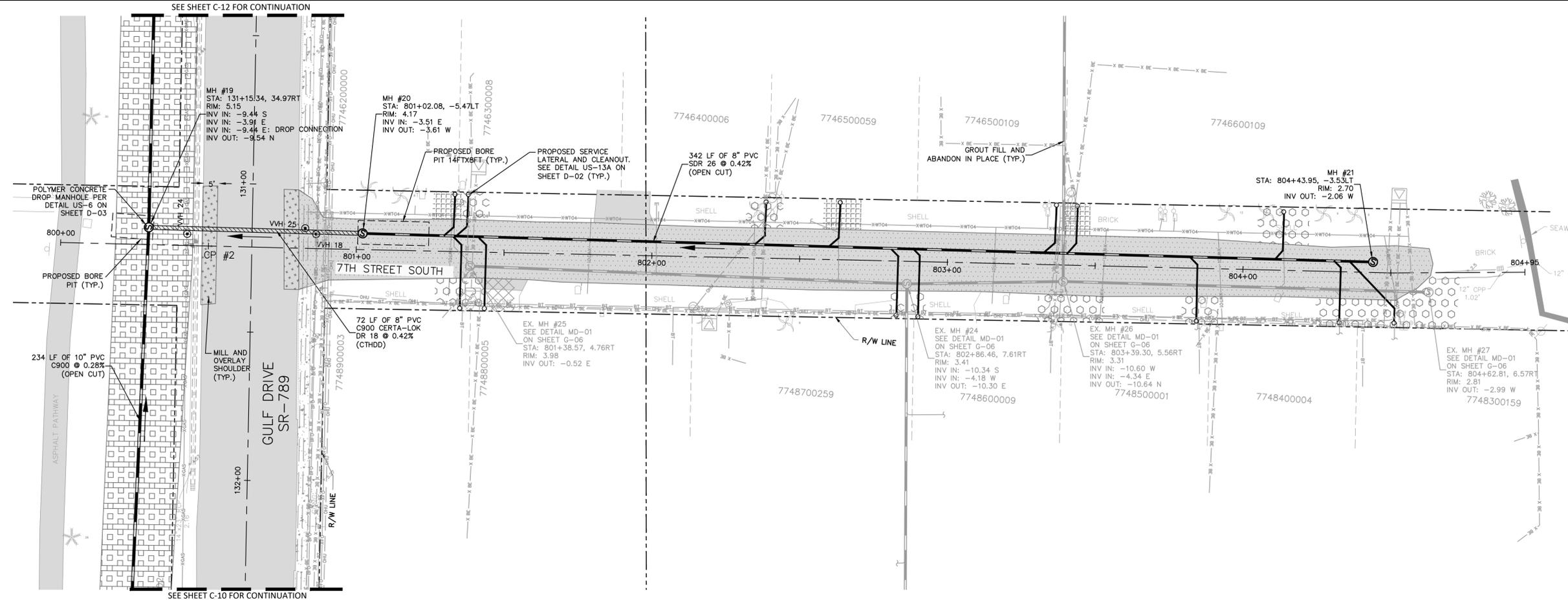
FL LICENSE NUMBER
87501

FL DATE:

9TH STREET S [STA. 600+00-604+50]

SHEET NUMBER
C-09

This document, together with the concepts and designs presented herein, is an instrument of service, as an instrument of service, intended only for the specific purpose and client for which it was prepared. Reuse of any improper reference on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



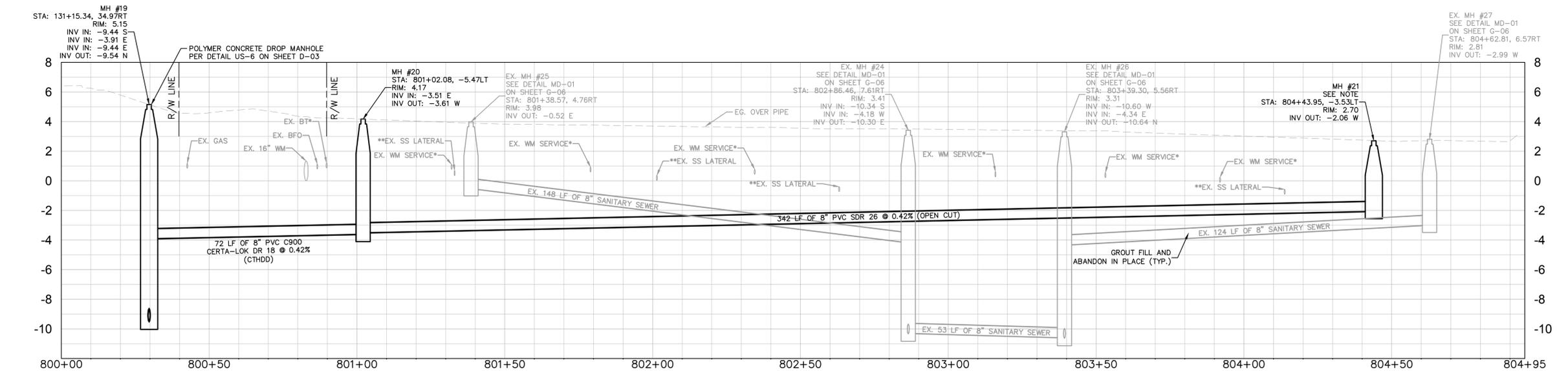
- LEGEND:**
- SIDEWALK/CONCRETE RESTORATION
 - BRICK DRIVEWAY RESTORATION
 - SHELL ROAD RESTORATION
 - SHELL RESTORATION
 - FULL DEPTH FDOT ROAD RESTORATION
 - ROAD RESTORATION
 - MILL AND OVERLAY

- GENERAL NOTES:**
- CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC).
 - CONTRACTOR TO MAINTAIN MINIMUM PIPE SLOPES PER MANATEE COUNTY STANDARDS:
 - 8-INCH MIN SLOPE = 0.42%
 - 10-INCH MIN SLOPE = 0.28%
 - 12-INCH MIN SLOPE = 0.22%
 - CONTRACTOR TO MAINTAIN MINIMUM CLEARANCES PER FDEP F.A.C. RULE 62-55.314. SEE DETAIL ON SHEET D-03.
 - CONTRACTOR TO VERIFY EXISTING FIELD CONDITIONS BEFORE THE BEGINNING ANY CONSTRUCTION ACTIVITIES.
 - CONTRACTOR TO REMOVE ANY UNSUITABLE FILL MATERIALS AND BACKFILL WITH APPROVED MATERIAL PER MANATEE COUNTY SPECIFICATIONS.
 - ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES AND PUMP STATIONS ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
 - CONTRACTOR TO INSTALL SANITARY SEWER CLEAN OUT AT THE BACK OF RIGHT-OF-WAY. CONTRACTOR TO EXERCISE CAUTION AND COORDINATE WITH FPL WHERE BURIED ELECTRIC IS PRESENT. IF A CONFLICT WITH THE NEW CLEAN OUT AND EXISTING BURIED ELECTRIC IS PRESENT, COORDINATE CLEAN OUT LOCATION WITH COUNTY INSPECTOR AND FPL.

***NOTES:**
 THE ELEVATIONS OF THE UTILITIES MARKED WITH AN ASTERISK (*) HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL ANTICIPATED SOIL COVERAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE PROPOSED SEWER MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT GRAVITY SEWER CONSTRUCTION, THE COST OF UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH THE CONSTRUCTION OF THE PROPOSED SANITARY SEWER. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO EFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

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

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



****NOTES:**
 THE ELEVATIONS OF THE EXISTING SANITARY SEWER LATERALS MARKED WITH TWO (2) ASTERISK (**) HAVE BEEN ASSUMED ON THE BASIS OF CCTV & FIELD INVESTIGATIONS MADE BY MANATEE COUNTY. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL SANITARY SEWER LATERALS CROSSING THE PROPOSED SEWER MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT GRAVITY SEWER CONSTRUCTION, THE COST OF MODIFICATIONS/ADJUSTMENTS NECESSARY FOR CONSTRUCTION OF THE PROPOSED SANITARY SEWER. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO EFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

ADDENDUM #3	7/16/2021	MAS
REVISIONS		
No.	REVISIONS	DATE BY

Kimley & Horn

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
 100 2ND AVE S, UNIT 105N, ST. PETERSBURG, FL 33701
 PHONE: 727-547-3999
 WWW.KIMLEY-HORN.COM Registry No. 696

KHA PROJECT 148400056
 DATE JULY 2021
 SCALE AS SHOWN
 DESIGNED BY MAS
 DRAWN BY KTM
 CHECKED BY WEW

Manatee County

BRADENTON BEACH GRAVITY REPLACEMENT

MANATEE COUNTY

LICENSED PROFESSIONAL

MICHAEL A. SEMAGO, P.E.

FL LICENSE NUMBER 87501

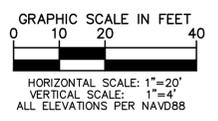
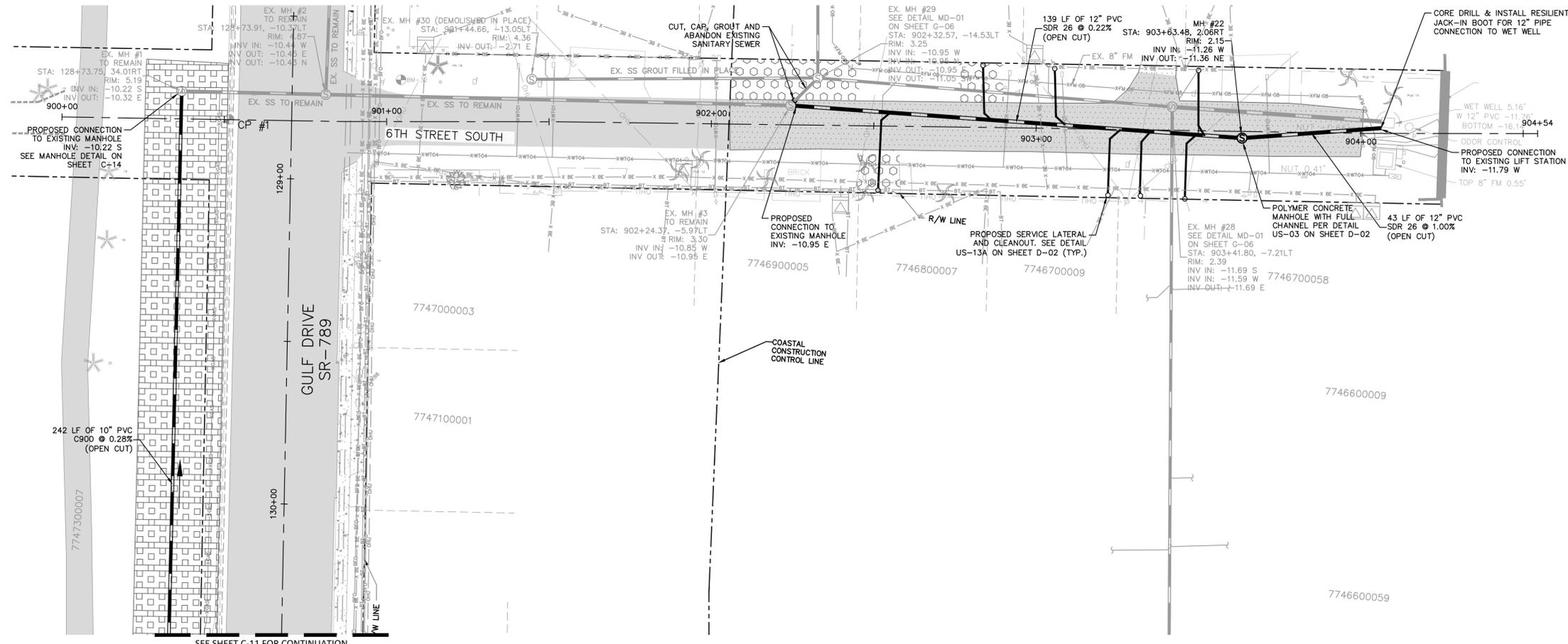
7TH STREET S [STA. 800+00-804+95]

SHEET NUMBER

C-11



This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of any improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

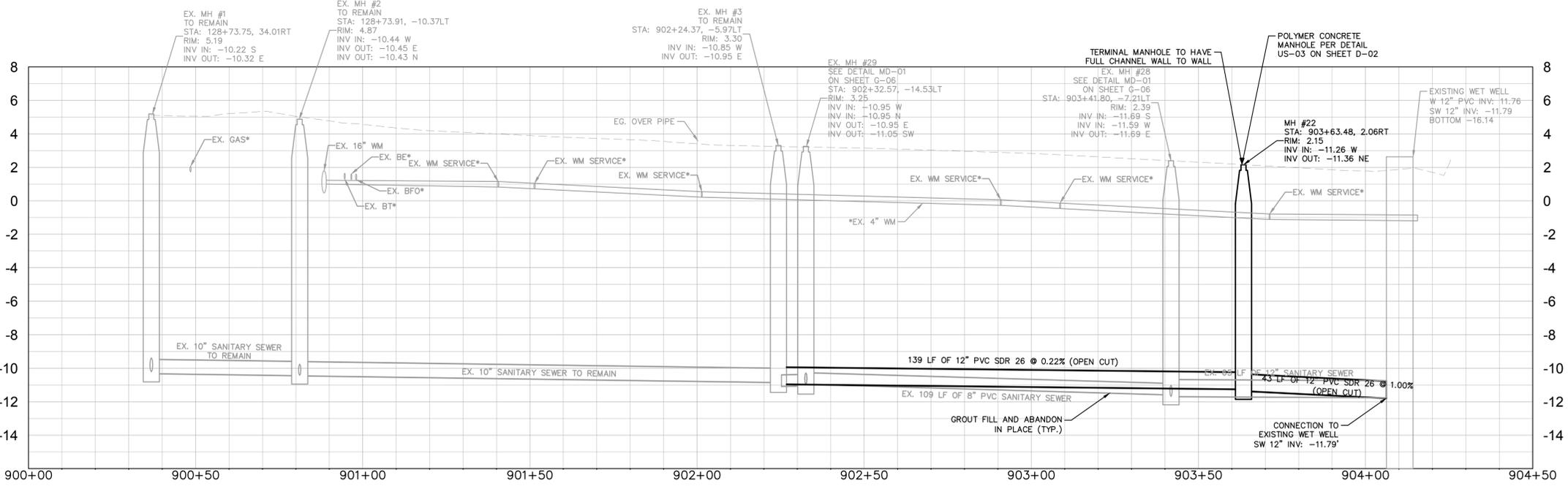


- LEGEND:**
- SIDEWALK/CONCRETE RESTORATION
 - BRICK DRIVEWAY RESTORATION
 - SHELL ROAD RESTORATION
 - SHELL RESTORATION
 - FULL DEPTH FDOT ROAD RESTORATION
 - FULL ROAD RESTORATION
 - MILL AND OVERLAY
- GENERAL NOTES:**

1. CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC).
2. CONTRACTOR TO MAINTAIN MINIMUM PIPE SLOPES PER MANATEE COUNTY STANDARDS*:
 - 8-INCH MIN SLOPE = 0.42%
 - 10-INCH MIN SLOPE = 0.28%
 - 12-INCH MIN SLOPE = 0.22%
3. CONTRACTOR TO MAINTAIN MINIMUM CLEARANCES PER FDEP F.A.C. RULE 62-55.314. SEE DETAIL ON SHEET D-03.
4. CONTRACTOR TO VERIFY EXISTING FIELD CONDITIONS BEFORE THE BEGINNING ANY CONSTRUCTION ACTIVITIES.
5. CONTRACTOR TO REMOVE ANY UNSUITABLE FILL MATERIALS AND BACKFILL WITH APPROVED MATERIAL PER MANATEE COUNTY SPECIFICATIONS.
6. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES AND PUMP STATIONS ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
7. CONTRACTOR TO INSTALL SANITARY SEWER CLEAN OUT AT THE BACK OF RIGHT-OF-WAY. CONTRACTOR TO EXERCISE CAUTION AND COORDINATE WITH FPL WHERE BURIED ELECTRIC IS PRESENT. IF A CONFLICT WITH THE NEW CLEAN OUT AND EXISTING BURIED ELECTRIC IS PRESENT, COORDINATE CLEAN OUT LOCATION WITH COUNTY INSPECTOR AND FPL.

***NOTES:**
 THE ELEVATIONS OF THE UTILITIES MARKED WITH AN ASTERISK (*) HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL ANTICIPATED SOIL COVERAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE PROPOSED SEWER MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT GRAVITY SEWER CONSTRUCTION, THE COST OF UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH THE CONSTRUCTION OF THE PROPOSED SANITARY SEWER. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO EFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

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



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



ADDENDUM #3	7/16/2021	MAS
No.	REVISIONS	DATE BY

Kimley & Horn

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
 100 2ND AVE S, UNIT 105N, ST. PETERSBURG, FL 33701
 PHONE: 727-547-3999
 WWW.KIMLEY-HORN.COM Registry No. 696

KHA PROJECT	148400056
DATE	JULY 2021
SCALE	AS SHOWN
DESIGNED BY	MAS
DRAWN BY	KTM
CHECKED BY	WEW

Manatee County Florida

BRADENTON BEACH GRAVITY REPLACEMENT

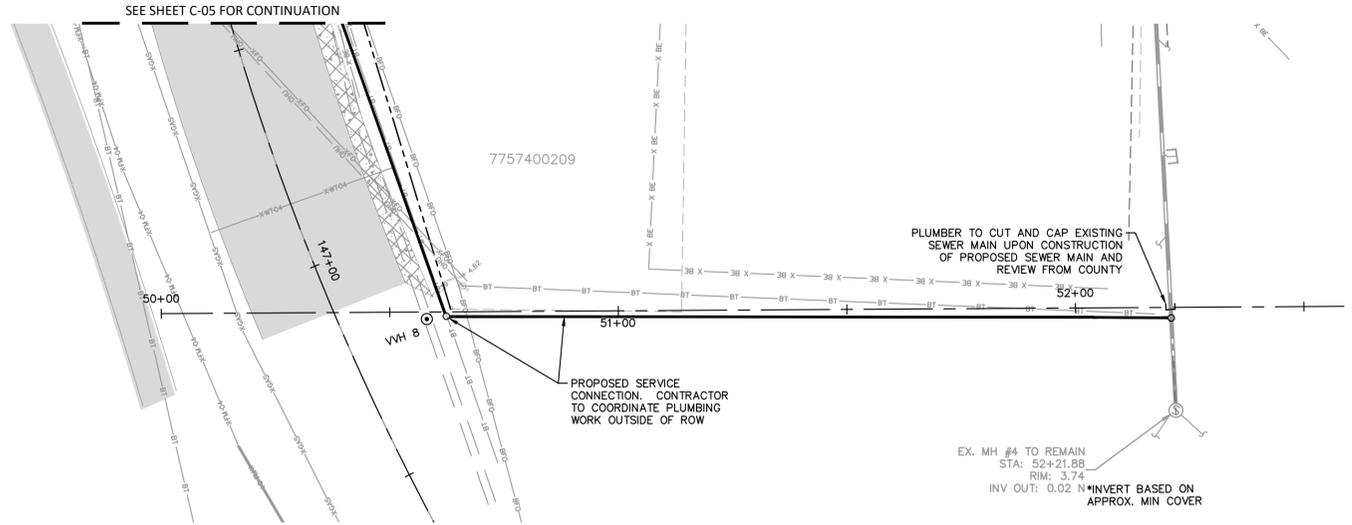
MANATEE COUNTY

LICENSED PROFESSIONAL	MICHAEL A. SEMAGO, P.E.
FL LICENSE NUMBER	87501
DATE:	

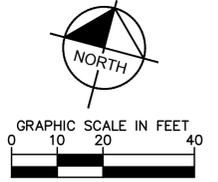
6TH STREET S [STA. 900+00-904+54]

SHEET NUMBER
C-12

This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of any improper reference on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



PLUMBING DETAIL: SOUTH OF 13TH ST



HORIZONTAL SCALE: 1"=20'
 VERTICAL SCALE: 1"=4'
 ALL ELEVATIONS PER NAVD88

- LEGEND:**
- SIDEWALK/CONCRETE RESTORATION
 - BRICK DRIVEWAY RESTORATION
 - SHELL ROAD RESTORATION
 - SHELL RESTORATION
 - FULL DEPTH FDOT ROAD RESTORATION
 - FULL ROAD RESTORATION
 - MILL AND OVERLAY

- GENERAL NOTES:**
- CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC).
 - CONTRACTOR TO MAINTAIN MINIMUM PIPE SLOPES PER MANATEE COUNTY STANDARDS:
 - 8-INCH MIN SLOPE = 0.42%
 - 10-INCH MIN SLOPE = 0.28%
 - 12-INCH MIN SLOPE = 0.22%
 - CONTRACTOR TO MAINTAIN MINIMUM CLEARANCES PER FDEP F.A.C. RULE 62-55.314. SEE DETAIL ON SHEET D-03.
 - CONTRACTOR TO VERIFY EXISTING FIELD CONDITIONS BEFORE THE BEGINNING ANY CONSTRUCTION ACTIVITIES.
 - CONTRACTOR TO REMOVE ANY UNSUITABLE FILL MATERIALS AND BACKFILL WITH APPROVED MATERIAL PER MANATEE COUNTY SPECIFICATIONS.
 - ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES AND PUMP STATIONS ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
 - CONTRACTOR TO INSTALL SANITARY SEWER CLEAN OUT AT THE BACK OF RIGHT-OF-WAY. CONTRACTOR TO EXERCISE CAUTION AND COORDINATE WITH FPL WHERE BURIED ELECTRIC IS PRESENT. IF CONFLICT WITH THE NEW CLEAN OUT AND EXISTING BURIED ELECTRIC IS PRESENT, COORDINATE CLEAN OUT LOCATION WITH COUNTY INSPECTOR AND FPL.

***NOTES:**
 THE ELEVATIONS OF THE UTILITIES MARKED WITH AN ASTERISK (*) HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL ANTICIPATED SOIL COVERAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE PROPOSED SEWER MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT GRAVITY SEWER CONSTRUCTION, THE COST OF UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH THE CONSTRUCTION OF THE PROPOSED SANITARY SEWER. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO EFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

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

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



ADDENDUM #3	7/16/2021	MAS
No.	REVISIONS	DATE BY

Kimley»Horn

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
 100 2ND AVE S, UNIT 105N, ST. PETERSBURG, FL 33701
 PHONE: 727-547-3999
 WWW.KIMLEY-HORN.COM Registry No. 696

KHA PROJECT 148400056
 DATE JULY 2021
 SCALE AS SHOWN
 DESIGNED BY MAS
 DRAWN BY KTM
 CHECKED BY WEW

Manatee County

BRADENTON BEACH GRAVITY REPLACEMENT

MANATEE COUNTY FL

LICENSED PROFESSIONAL

MICHAEL A. SEMAGO, P.E.

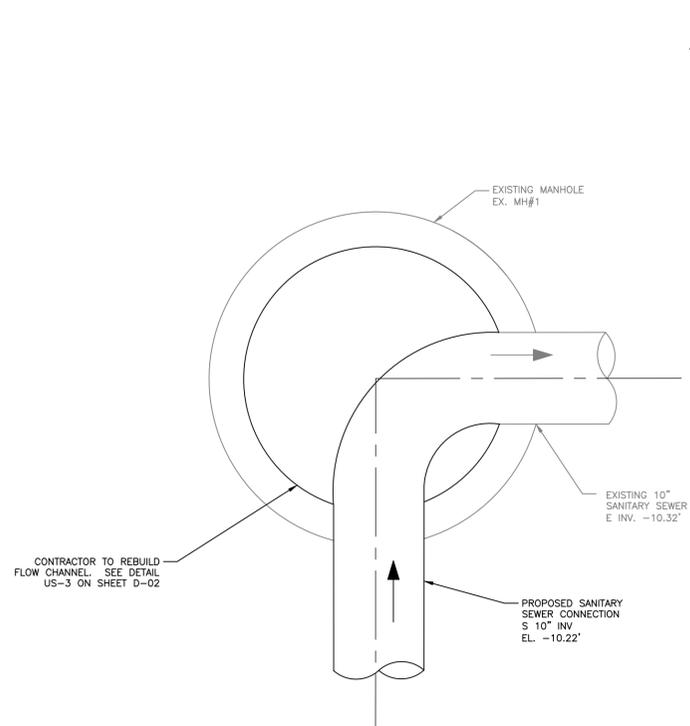
FL LICENSE NUMBER 87501

SOUTH 13TH STREET LATERAL

SHEET NUMBER

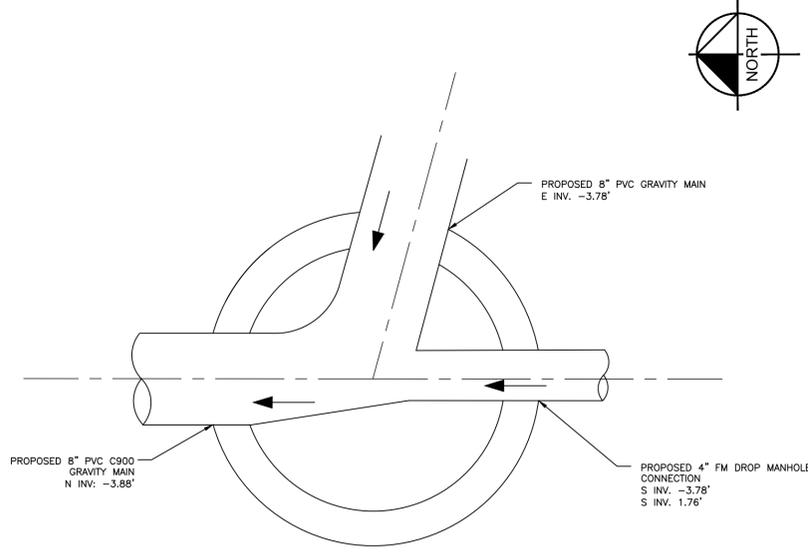
C-13

This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of any improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



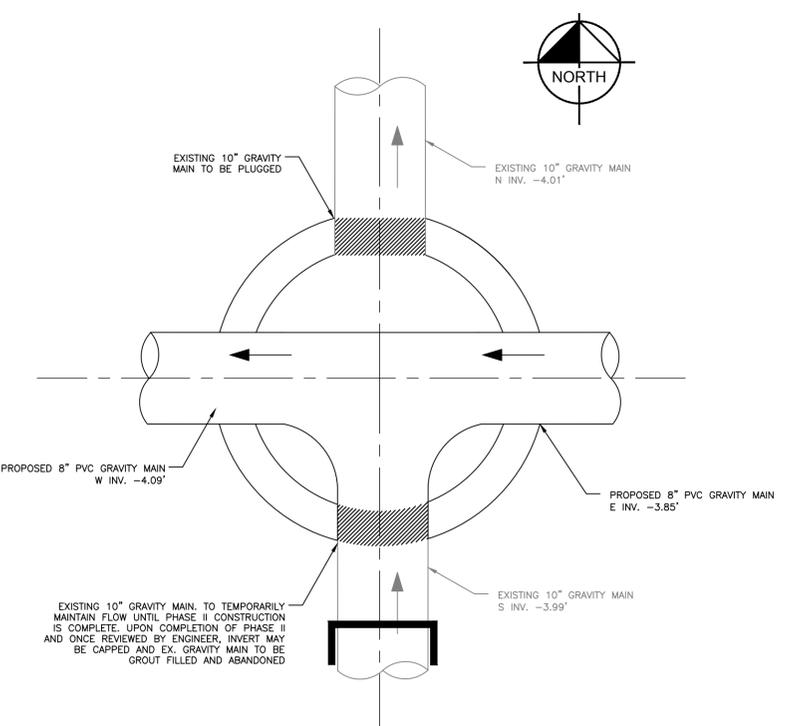
EXISTING MH #1 CONNECTION

N.T.S. SHEET C-04 & C-12



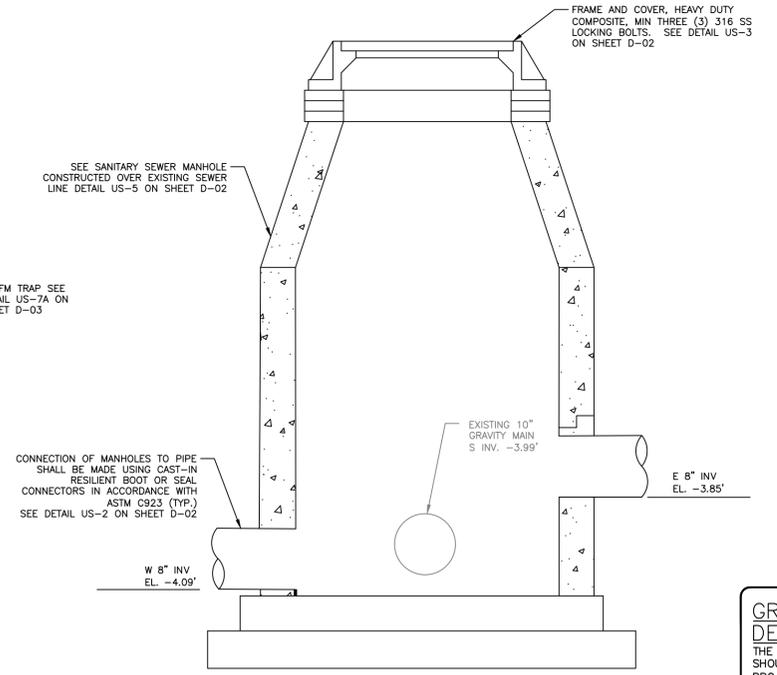
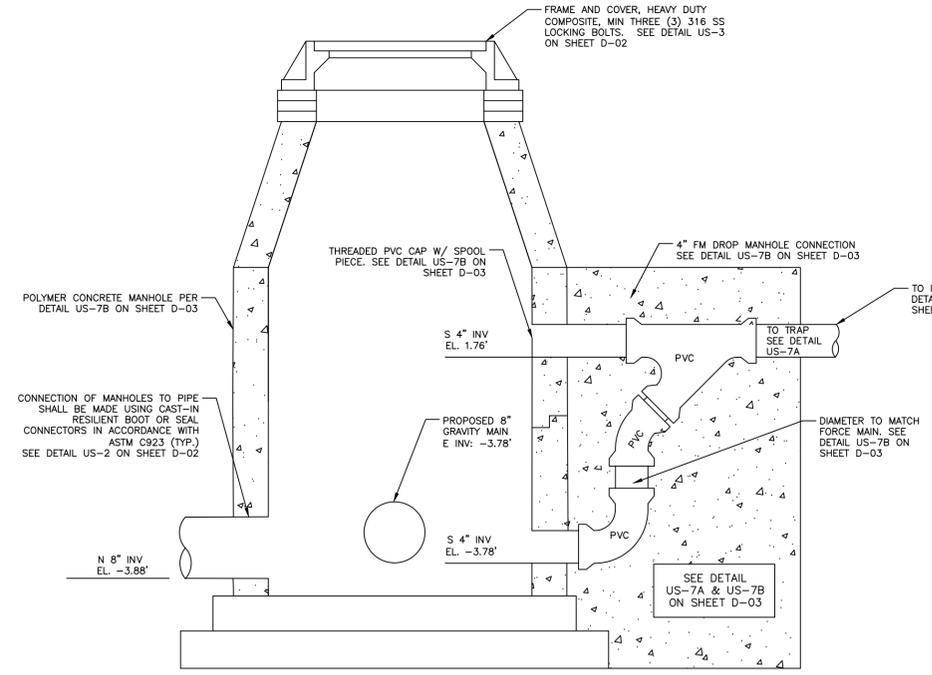
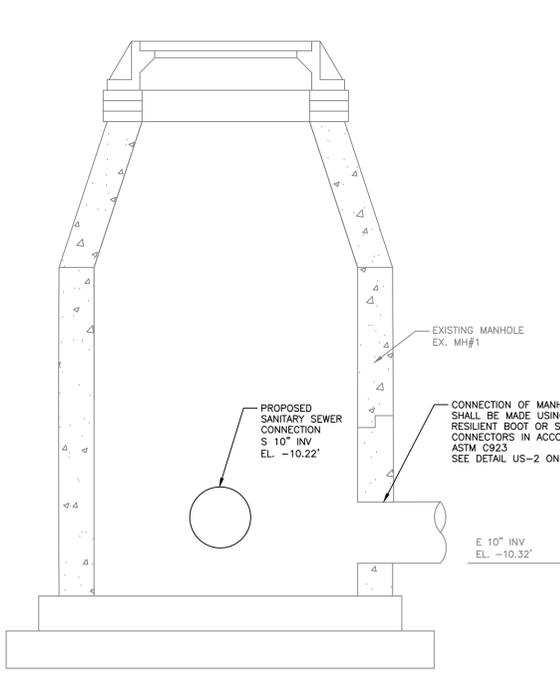
PRECAST POLYMER CONCRETE MANHOLE - MH #1

N.T.S. SHEET C-01 & C-05



CUT IN MANHOLE - CUT IN MH #01

N.T.S. SHEET C-07



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



No.	REVISIONS	DATE	BY

Kimley»Horn

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
 100 2ND AVE S, UNIT 105N, ST. PETERSBURG, FL 33701
 PHONE: 727-547-3999
 WWW.KIMLEY-HORN.COM Registry No. 696

KHA PROJECT 148400056
DATE JULY 2021
SCALE AS SHOWN
DESIGNED BY MAS
DRAWN BY KTM
CHECKED BY WEW

Manatee County
 FLORIDA

BRADENTON BEACH GRAVITY REPLACEMENT

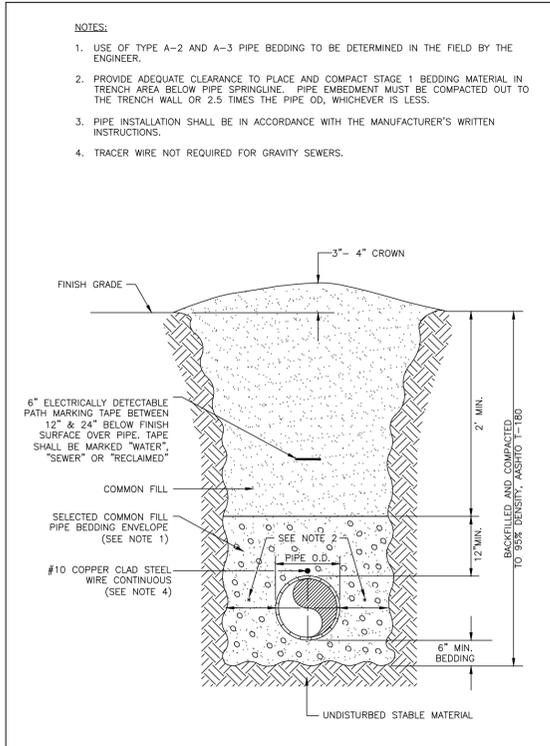
MANATEE COUNTY

LICENSED PROFESSIONAL
MICHAEL A. SEMAGO, P.E.
FL LICENSE NUMBER 87501

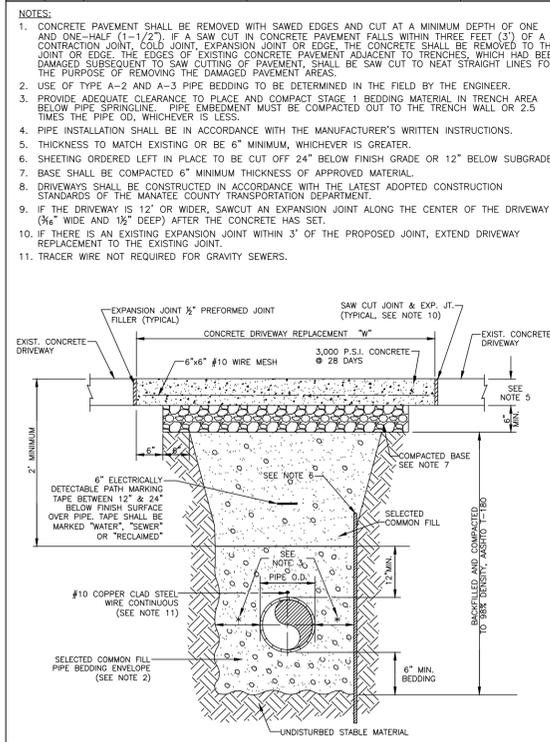
MANHOLE DETAILS

SHEET NUMBER
C-14

This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of any information contained on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

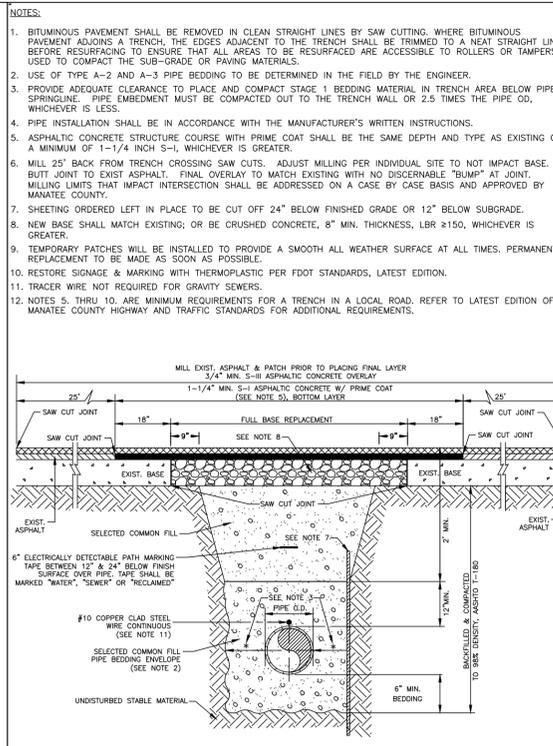


MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH UNIMPROVED SURFACE TYPE A-1 PIPE BEDDING	UG-11
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		

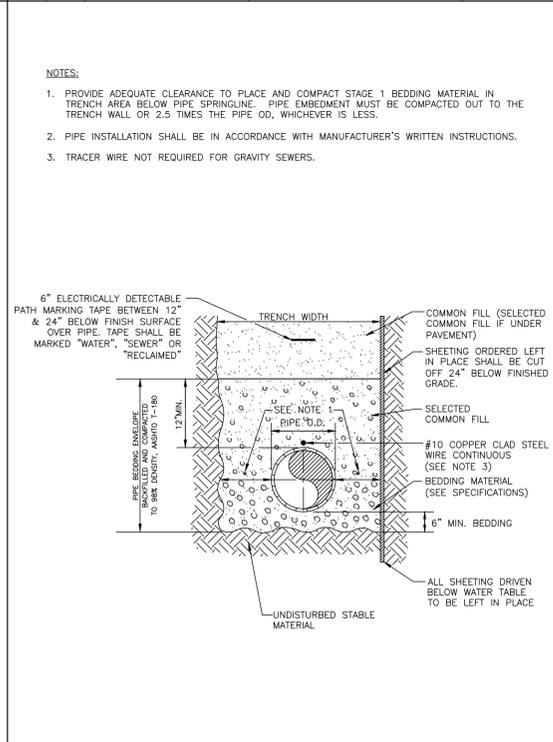


MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH ASPHALT PAVEMENT SURFACE TYPE A-1 PIPE BEDDING (CROSSING)	UG-12
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH CONCRETE DRIVEWAY SURFACE TYPE A-1 PIPE BEDDING	UG-14
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		

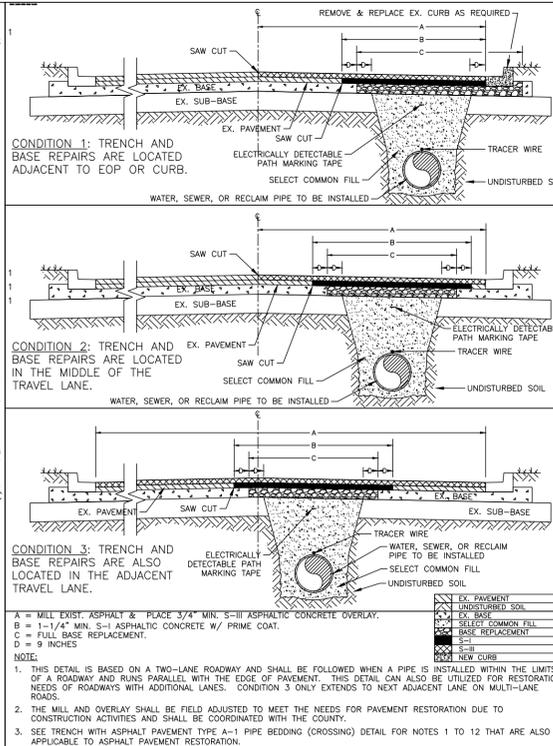


MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH TYPE A-2 PIPE BEDDING	UG-15
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		

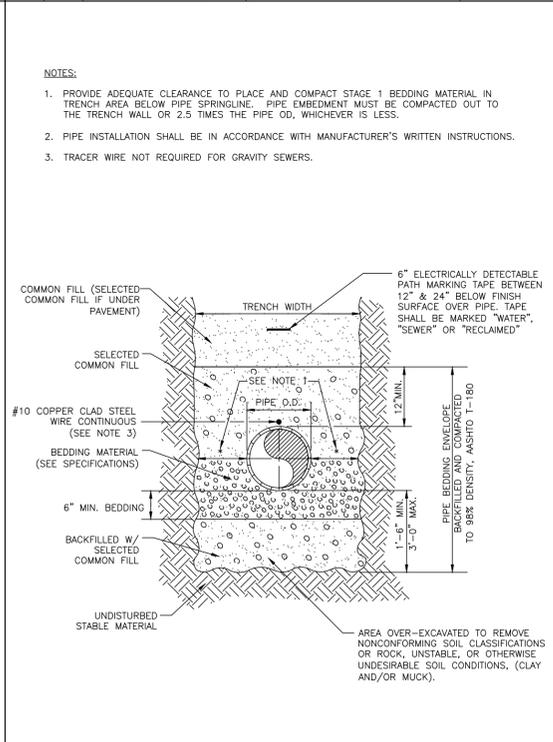


MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH TYPE A-3 PIPE BEDDING	UG-16
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		UTILITY LAYOUT FOR 50' R/W	UG-17
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		

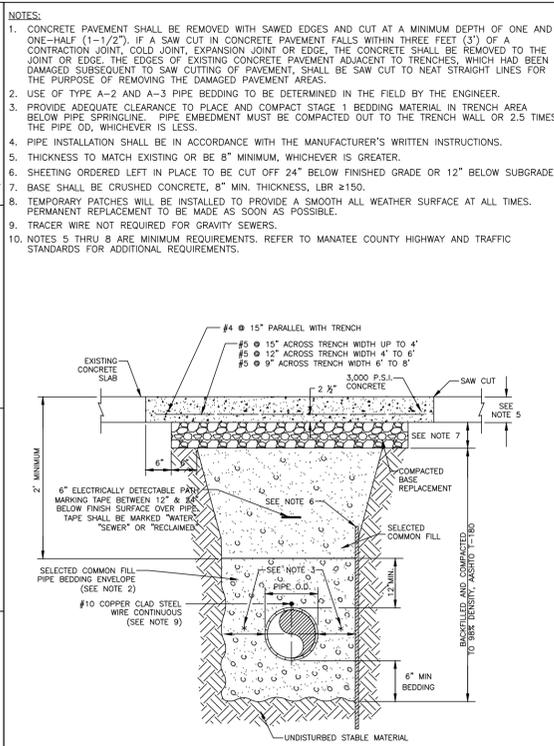


MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH TYPE A-3 PIPE BEDDING	UG-16
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		

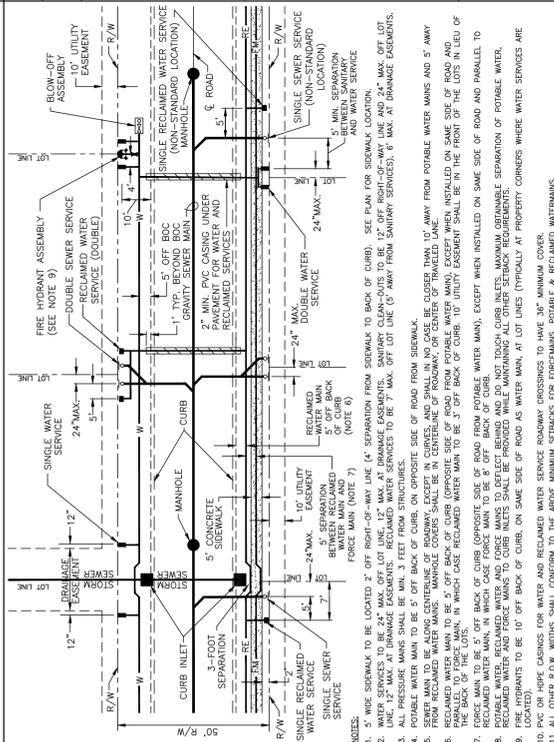


MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH CONCRETE DRIVEWAY SURFACE TYPE A-1 PIPE BEDDING	UG-14
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH CONCRETE DRIVEWAY SURFACE TYPE A-1 PIPE BEDDING	UG-14
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH CONCRETE DRIVEWAY SURFACE TYPE A-1 PIPE BEDDING	UG-14
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH CONCRETE DRIVEWAY SURFACE TYPE A-1 PIPE BEDDING	UG-14
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH CONCRETE DRIVEWAY SURFACE TYPE A-1 PIPE BEDDING	UG-14
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		



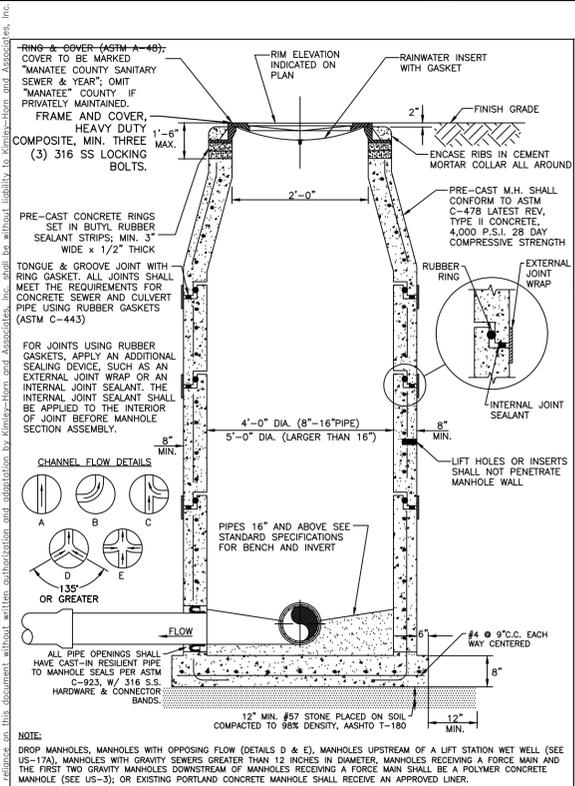
© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
100 2ND AVE S, UNIT 105N, ST. PETERSBURG, FL 33701
PHONE: 727-547-3999
WWW.KIMLEY-HORN.COM Registry No. 696

KHA PROJECT
148400056
DATE
JULY 2021
SCALE AS SHOWN
DESIGNED BY MAS
DRAWN BY KTM
CHECKED BY WEW

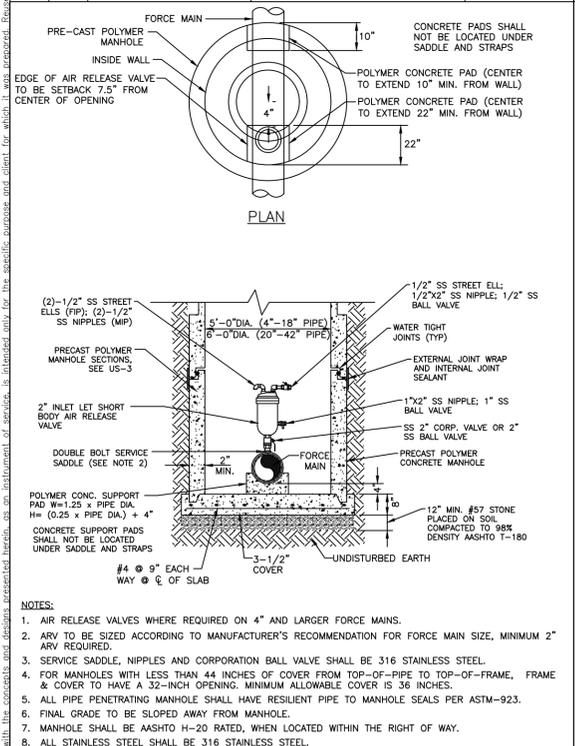
Manatee County
BRADENTON BEACH GRAVITY REPLACEMENT
MANATEE COUNTY

LICENSED PROFESSIONAL
MICHAEL A. SEMAGO, P.E.
FL LICENSE NUMBER
87501

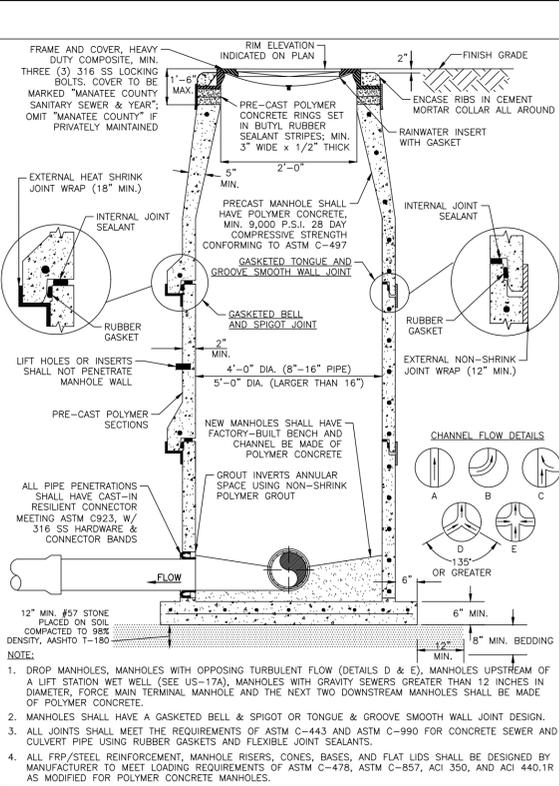
FL DATE:
SHEET NUMBER
D-01



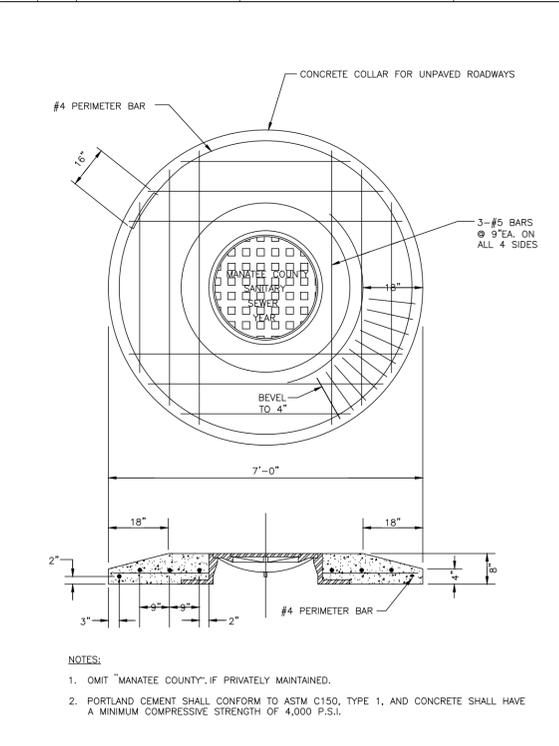
MANATEE COUNTY PUBLIC WORKS DEPARTMENT	STANDARD PRE-CAST SANITARY SEWER MANHOLE FOR UNDISTURBED FLOW	US-2
REV. BY DATE	February 25, 2020 DATE OF APPROVAL	



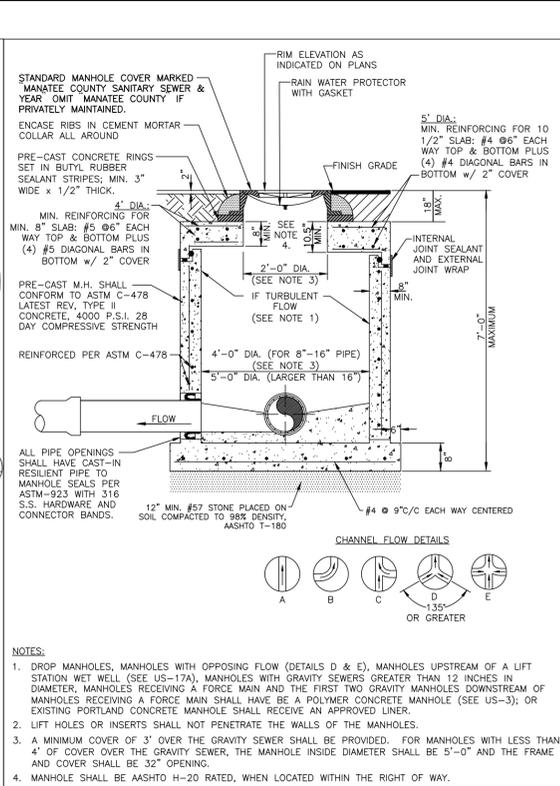
MANATEE COUNTY PUBLIC WORKS DEPARTMENT	BELOW GRADE AIR RELEASE VALVE FOR FORCE MAINS	US-8
REV. BY DATE	February 25, 2020 DATE OF APPROVAL	



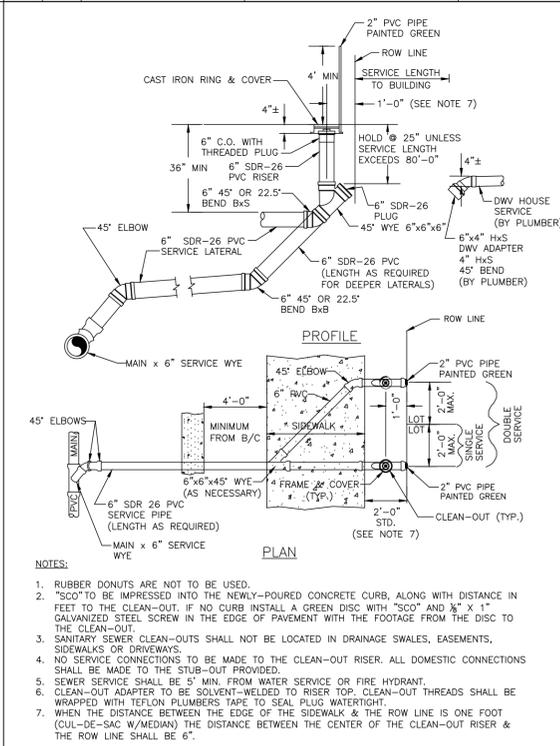
MANATEE COUNTY PUBLIC WORKS DEPARTMENT	STANDARD PRE-CAST POLYMER CONCRETE SANITARY SEWER MANHOLE FOR TURBULENT FLOW	US-3
REV. BY DATE	February 25, 2020 DATE OF APPROVAL	



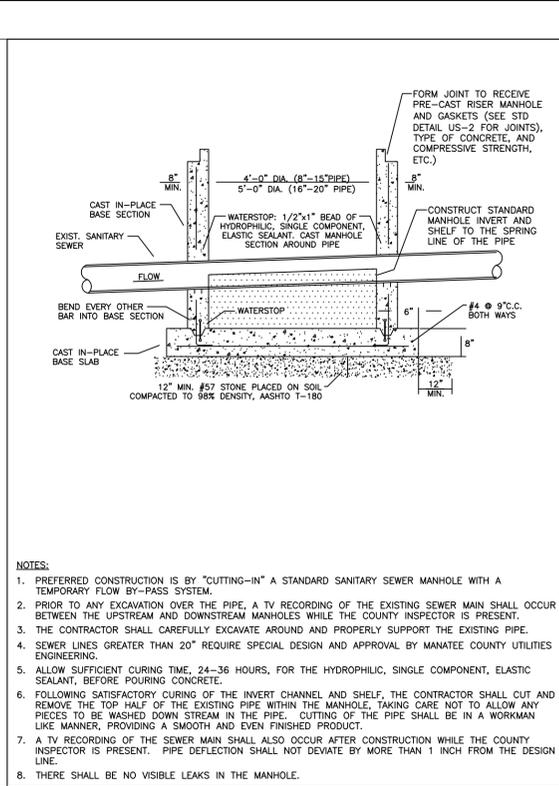
MANATEE COUNTY PUBLIC WORKS DEPARTMENT	MANHOLE COVER & CONCRETE COLLAR FOR UNPAVED ROADWAYS	US-10
REV. BY DATE	February 25, 2020 DATE OF APPROVAL	



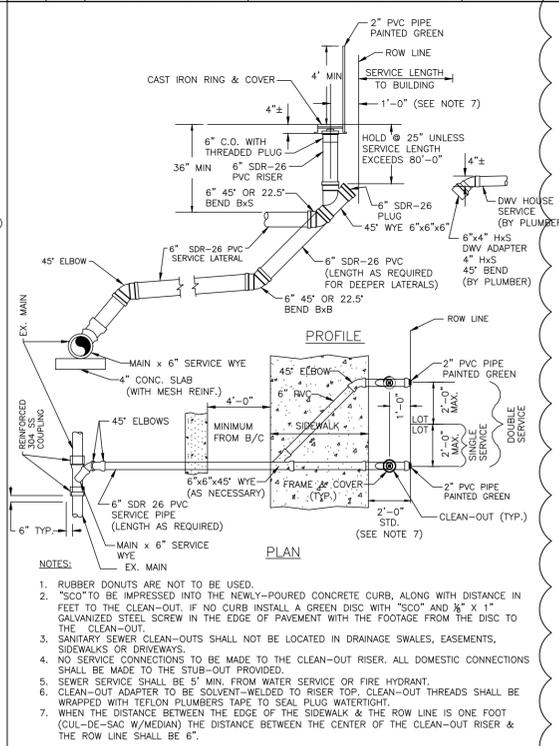
MANATEE COUNTY PUBLIC WORKS DEPARTMENT	STANDARD PRE-CAST PORTLAND CEMENT SHALLOW MANHOLE	US-4
REV. BY DATE	February 25, 2020 DATE OF APPROVAL	



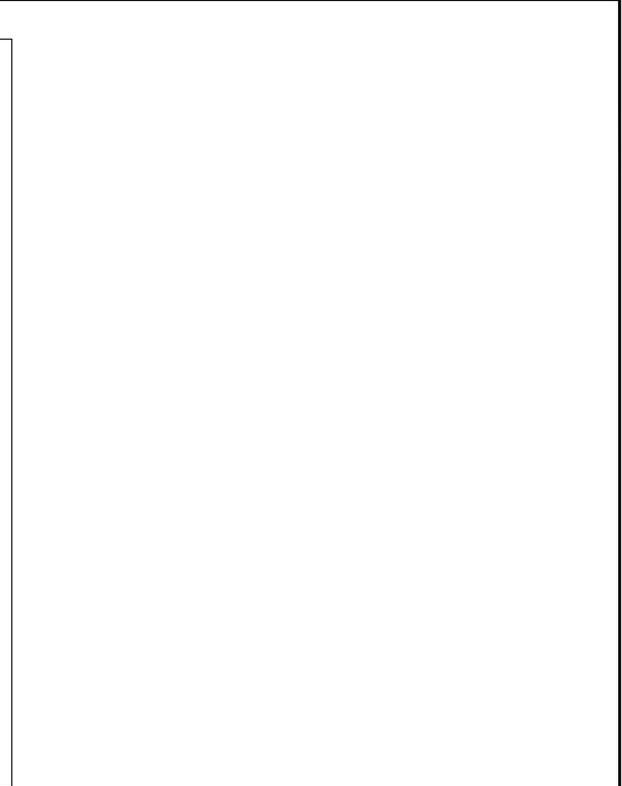
MANATEE COUNTY PUBLIC WORKS DEPARTMENT	SINGLE AND DOUBLE SERVICE CONNECTION	US-13A
REV. BY DATE	February 25, 2020 DATE OF APPROVAL	



MANATEE COUNTY PUBLIC WORKS DEPARTMENT	CUT-IN SINGLE AND DOUBLE SERVICE WYES	US-13B
REV. BY DATE	February 25, 2020 DATE OF APPROVAL	



MANATEE COUNTY PUBLIC WORKS DEPARTMENT	POLYMER CONCRETE MANHOLES UPSTREAM FROM LIFT STATIONS	US-17A
REV. BY DATE	February 25, 2020 DATE OF APPROVAL	



MANATEE COUNTY PUBLIC WORKS DEPARTMENT	POLYMER CONCRETE MANHOLES UPSTREAM FROM LIFT STATIONS	US-17A
REV. BY DATE	February 25, 2020 DATE OF APPROVAL	

ADDENDUM #3	7/16/2021	MAS
REVISIONS	DATE	BY

Kimley»Horn
 © 2021 KIMLEY-HORN AND ASSOCIATES, INC.
 100 2ND AVE S, UNIT 105N, ST. PETERSBURG, FL 33701
 PHONE: 727-547-3999
 WWW.KIMLEY-HORN.COM Registry No. 696

KHA PROJECT
148400056
 DATE
JULY 2021
 SCALE AS SHOWN
 DESIGNED BY MAS
 DRAWN BY KTM
 CHECKED BY WEW
 MANATEE COUNTY

MANATEE COUNTY
 LICENSED PROFESSIONAL
 MICHAEL A. SEMAGO, P.E.
 FL LICENSE NUMBER
87501
 DATE:

BRADENTON BEACH GRAVITY
REPLACEMENT
 DETAILS
 SHEET NUMBER
D-02

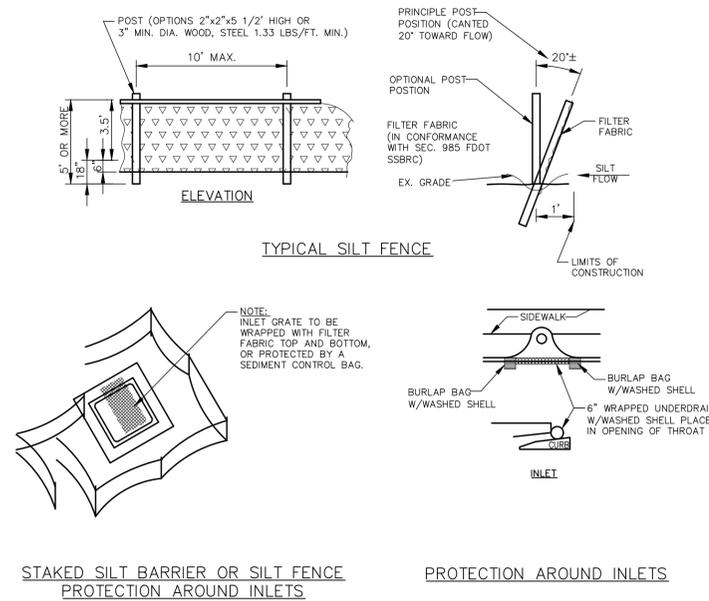
LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314

Other Pipe	Horizontal Separation	Crossings (1)	Joint Spacing @ Crossings (Full Joint Centered)
Storm Sewer, Stormwater Force Main, Reclaimed Water (2)	Water Main 3 ft. minimum	Water Main 12 inches is the minimum, except for storm sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 3 ft. minimum Water Main
Vacuum Sanitary Sewer	Water Main 10 ft. preferred 3 ft. minimum	Water Main 12 inches preferred 6 inches minimum	Alternate 3 ft. minimum Water Main
Gravity or Pressure Sanitary Sewer, Sanitary Sewer Force Main, Reclaimed Water (4)	Water Main 10 ft. preferred 6 ft. minimum (3)	Water Main 12 inches is the minimum, except for gravity sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 6 ft. minimum Water Main
On-Site Sewage Treatment & Disposal System	10 ft. minimum	---	---

- (1) Water main should cross above other pipe. When water main must be below other pipe, the minimum separation is 12 inches.
- (2) Reclaimed water regulated under Part III of Chapter 62-610, F.A.C.
- (3) 3 ft. for gravity sanitary sewer where the bottom of the water main is laid at least 6 inches above the top of the gravity sanitary sewer.
- (4) Reclaimed water not regulated under Part III of Chapter 62-610, F.A.C.

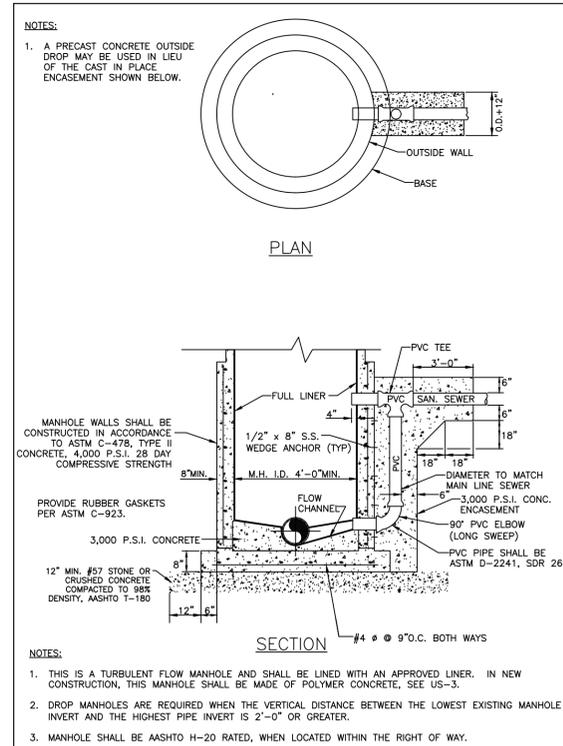
Disclaimer - This document is provided for your convenience only. Please refer to F.A.C. Rule 62-555.314 for additional construction requirements.

F.A.C. RULE 62-55.314 MAIN CLEARANCES DETAIL

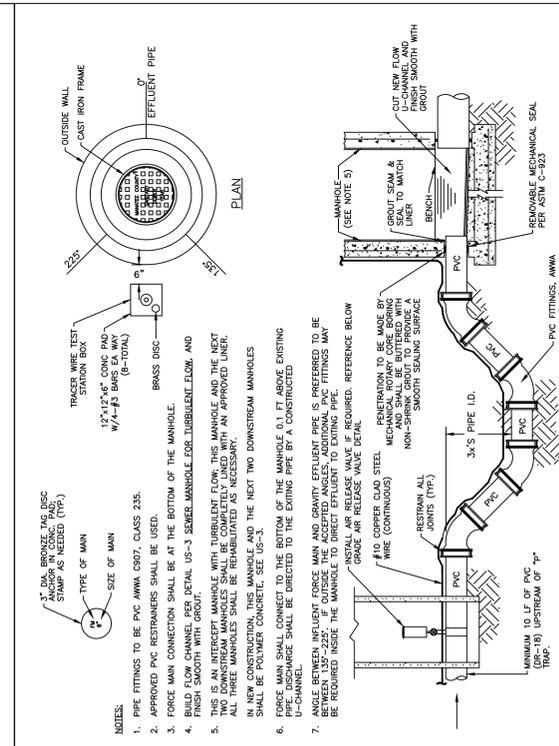


STAKED SILT BARRIER OR SILT FENCE PROTECTION AROUND INLETS

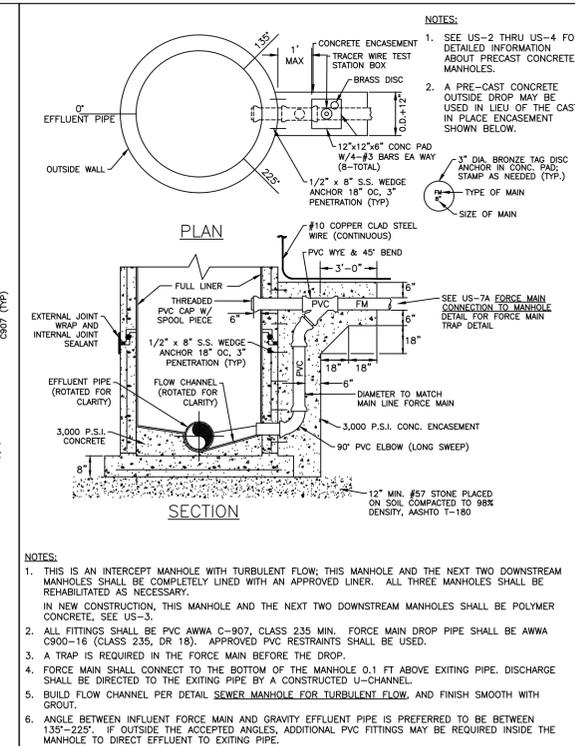
EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES
N.T.S.



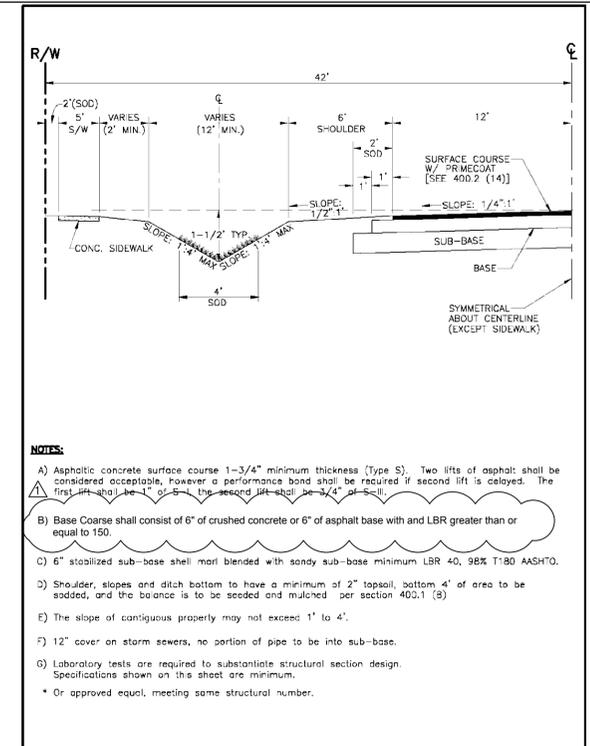
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		OUTSIDE DROP CONNECTION TO EX. PORTLAND CEMENT MANHOLE	US-6
REV. BY	DATE	February 25, 2020	DATE OF APPROVAL



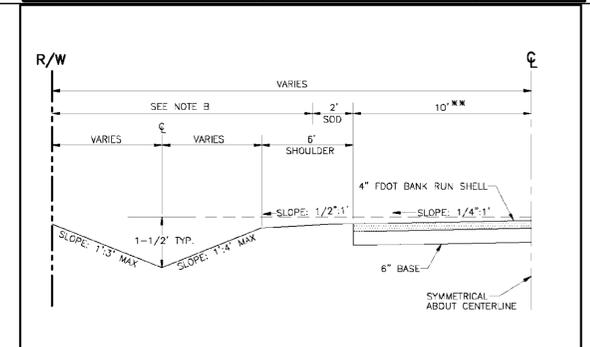
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		FORCE MAIN CONNECTION TO EX. PORTLAND CEMENT MANHOLE (3-6 FEET DEEP)	US-7A
REV. BY	DATE	February 25, 2020	DATE OF APPROVAL



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		FORCE MAIN CONNECTION TO EX. PORTLAND CEMENT MANHOLE (>6 FEET DEEP)	US-7B
REV. BY	DATE	February 25, 2020	DATE OF APPROVAL



MANATEE COUNTY TRANSPORTATION DEPARTMENT		LOCAL RESIDENTIAL	401.7
REV. BY	DATE	DATE OF B.O.C.C. APPROVAL	



Note: These roads may only be approved for use in Ag-rural designated areas on rights-of-way dedicated prior to Oct. 15, 1992. Roads will be classified as "Emergency Maintained Only." Local residents are required to perform routine maintenance.

- A) Clean, stabilized 6" base. Minimum LBR 40, 98% T180 AASHTO. This requires raking and removal of plant material before compaction, if plant material exists within the right of way.
- B) Road shall be finished with 4" FDOT bank run shell, then leveled and compacted.
- C) Side 2' of road shoulder shall be sodded and if there is no substantial existing grass, remaining shoulder, slopes and ditch bottom shall have a minimum of 2" topsoil, and shall be seeded and mulched. Areas susceptible to erosion must be sodded.
- D) The slope of contiguous property may not exceed 3' to 1'.
- E) 12" cover on storm sewers, no portion of pipe allowed in base.
- F) Laboratory tests are required to substantiate structural section design. Specifications shown on this sheet are minimum requirements.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		RURAL SHELL ROAD	401.9
REV. BY	DATE	6/12/07	DATE OF B.O.C.C. APPROVAL

This document, together with the concepts and designs presented herein, is an instrument of service, intended only for the specific purpose and client for which it was prepared. Reuse of any improper reference on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

ADDENDUM #3	7/16/2021	MAS
REVISIONS	DATE	BY

Kimley-Horn

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
100 2ND AVE S, UNIT 105N, ST. PETERSBURG, FL 33701
PHONE: 727-547-3999
WWW.KIMLEY-HORN.COM Registry No. 696

KHA PROJECT 148400056
DATE JULY 2021
SCALE AS SHOWN
DESIGNED BY MAS
DRAWN BY KTM
CHECKED BY WEW

BRADENTON BEACH GRAVITY REPLACEMENT

MANATEE COUNTY

LICENSED PROFESSIONAL
MICHAEL A. SEMAGO, P.E.
FL LICENSE NUMBER 87501

DETAILS

FL DATE:

SHEET NUMBER
D-03