

CONSTRUCTION PLANS FOR BRADENTON BEACH GRAVITY SEWER

MANATEE COUNTY, FLORIDA

JULY 2021

MANATEE COUNTY PROJECT #6105280



PROJECT TEAM:

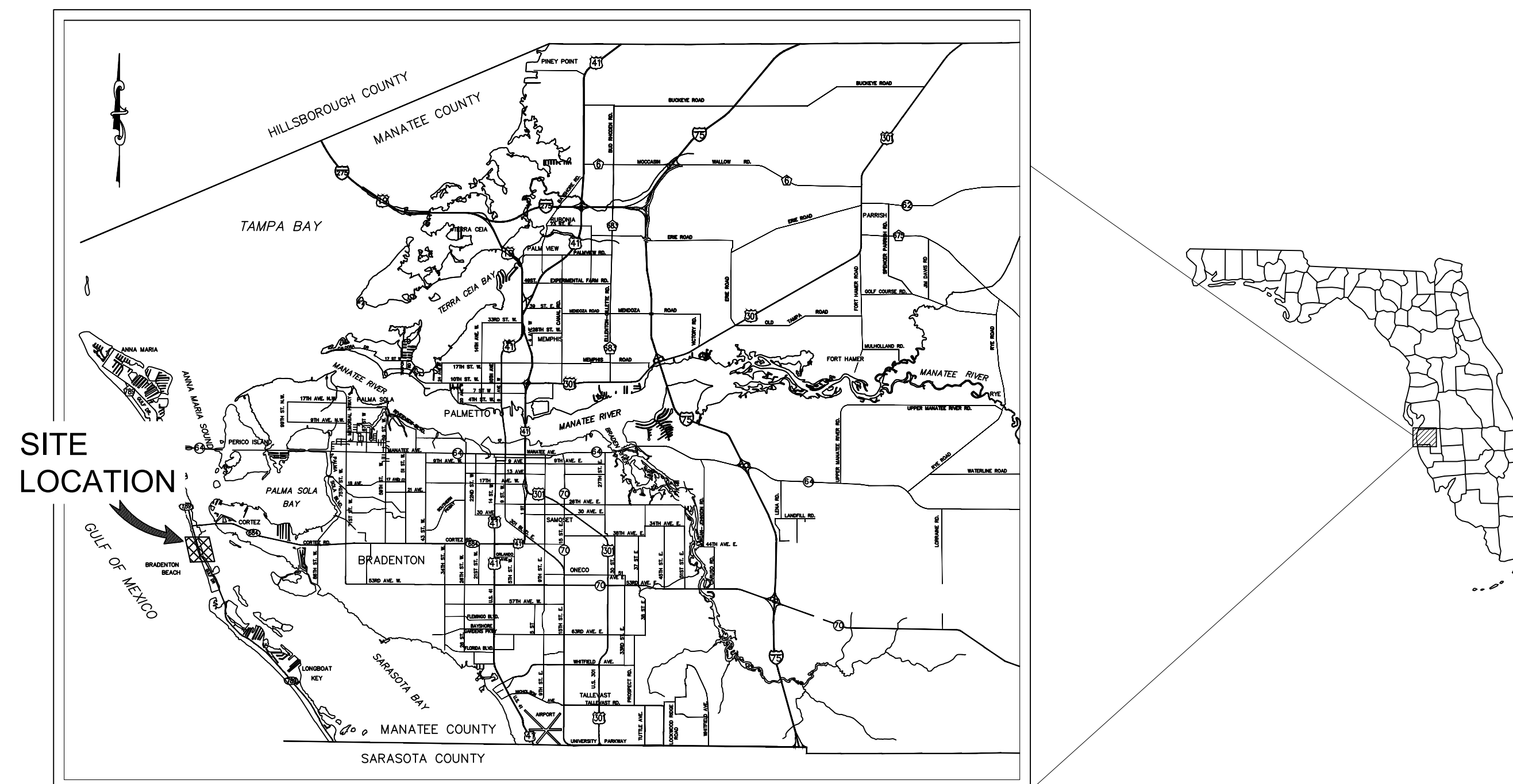
OWNER:
MANATEE COUNTY
1022 26TH AVE. E.
BRADENTON, FL 34208
CONTACT: ALEX GONZALEZ, P.E.
941-708-7450 EXT. 7338

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

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PROJECT VICINITY MAP
N.T.S.

BID SET

PREPARED BY
Kimley»Horn

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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	

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

DATE: BY:

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

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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

- R/W RIGHT-OF WAY
- ND NAIL W/ DISC
- IRC IRON ROD W/ CAP
- 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



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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

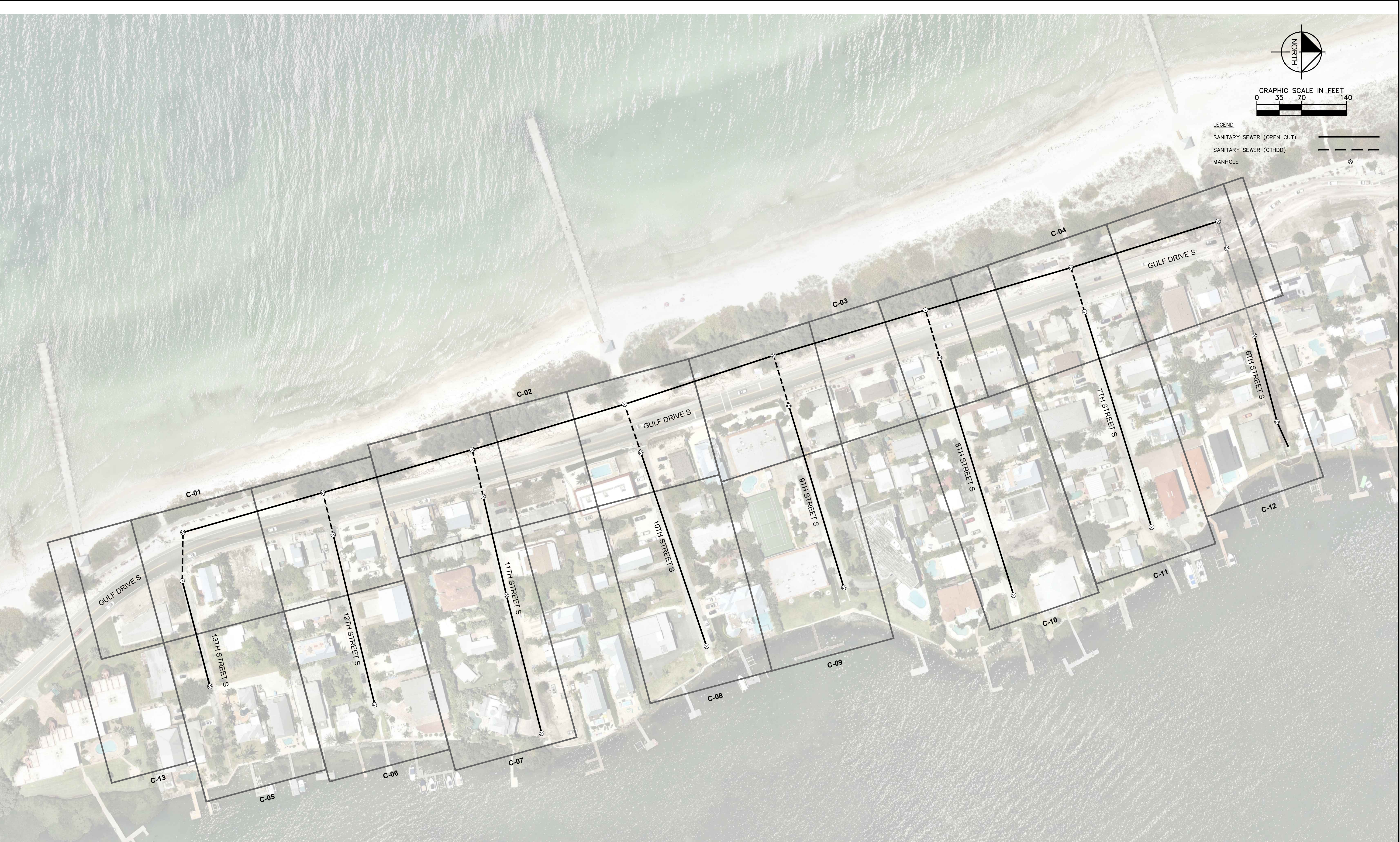
SURVEY & SUE NOTES

SHEET NUMBER

G-03

FL DATE:

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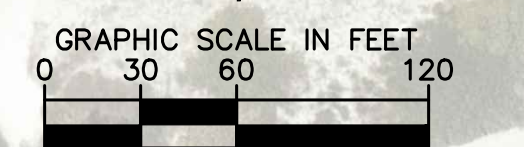
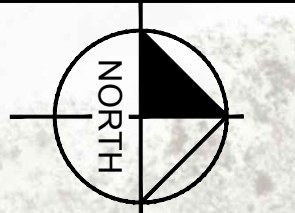
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BRADENTON BEACH GRAVITY REPLACEMENT
 MANATEE COUNTY FL

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

KEYSHEET

SHEET NUMBER	G-04
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- 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.



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Manatee County
 FLORIDA

BRADENTON BEACH GRAVITY REPLACEMENT

MANATEE COUNTY FL

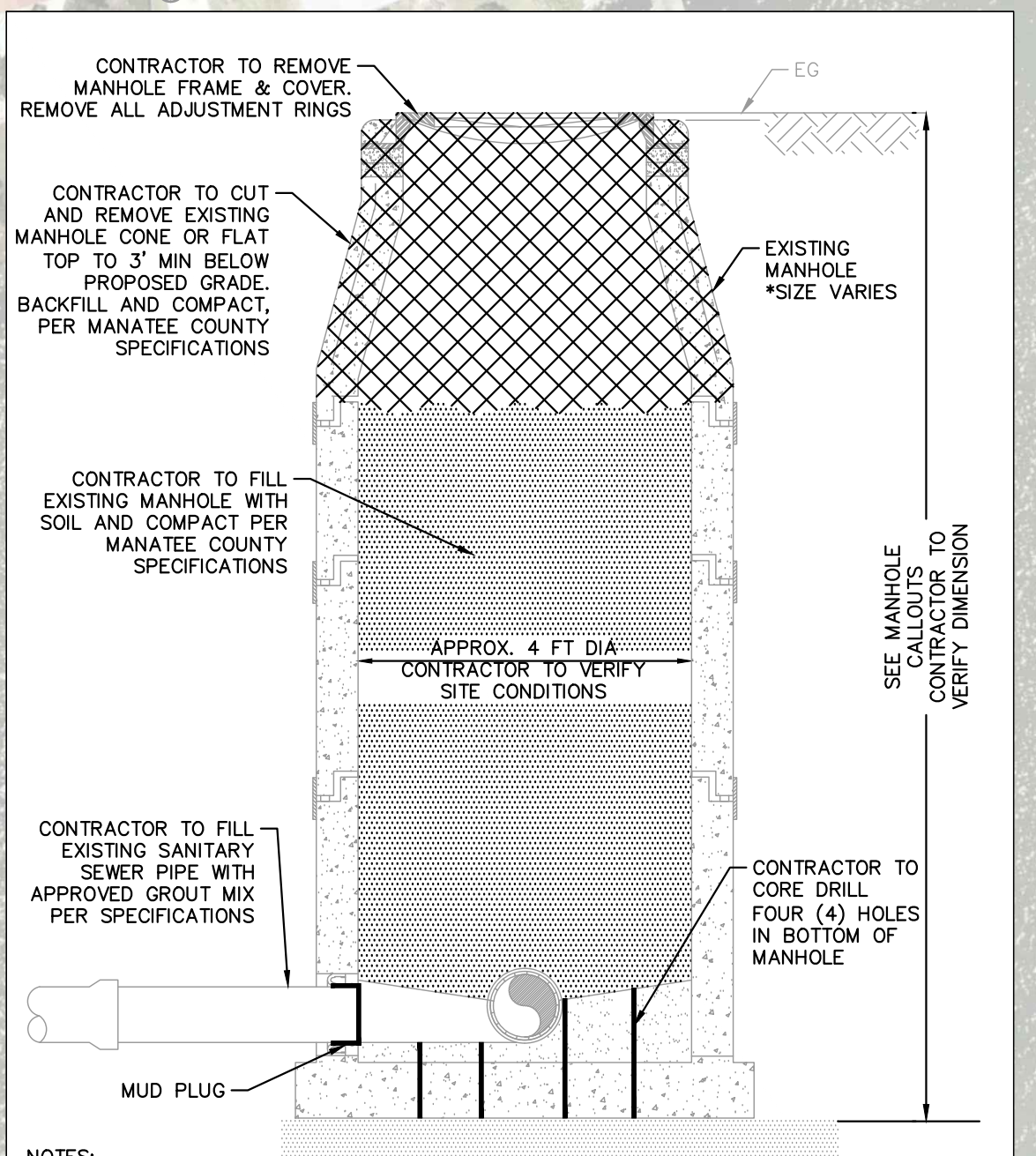
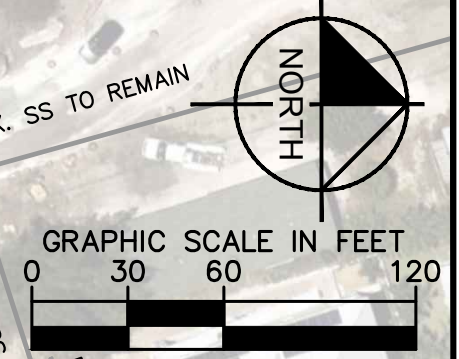
LICENSED PROFESSIONAL	MICHAEL A. SEMAGO, P.E.
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CONSTRUCTION PHASING PLAN

SHEET NUMBER	G-05
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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 5FT 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
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No.	REVISIONS	DATE	BY

Kimley & Horn

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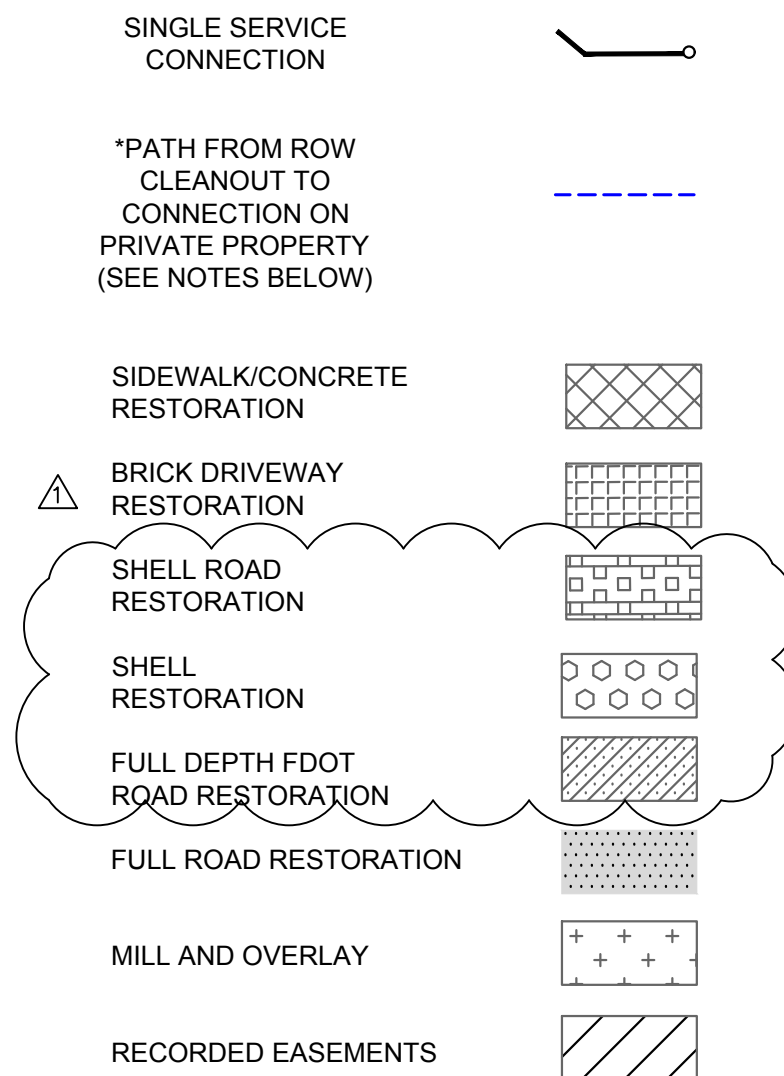
Manatee County
BRADENTON BEACH GRAVITY REPLACEMENT
MANATEE COUNTY

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

EXISTING SANITARY SEWER GROUT & DEMOLITION PLAN

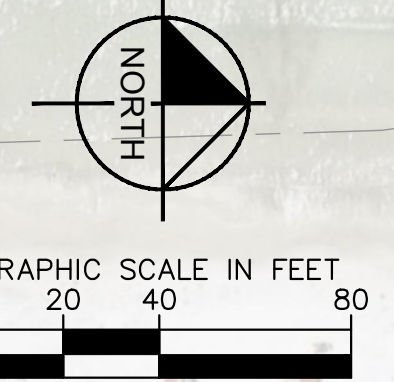
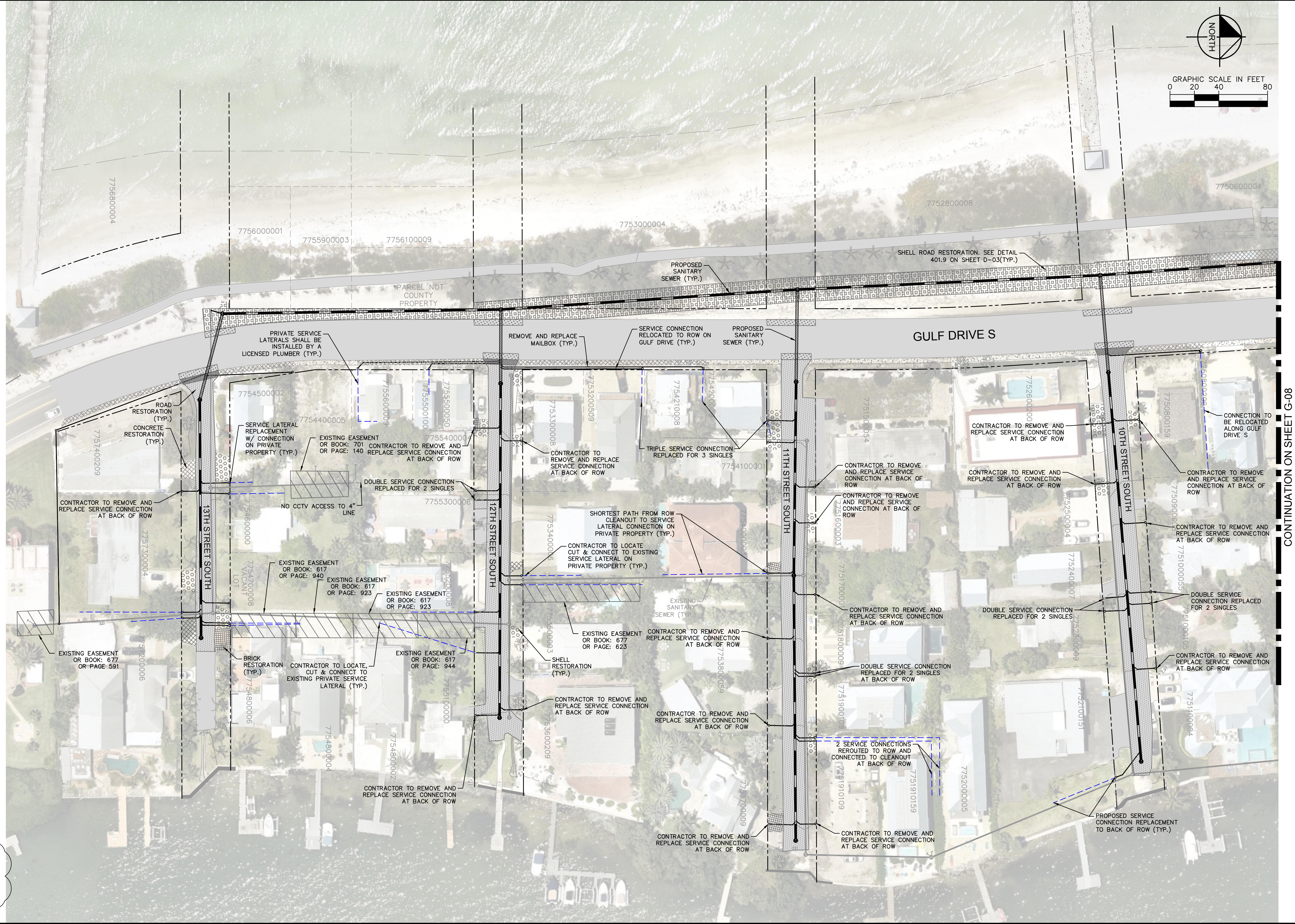
SHEET NUMBER
G-06

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

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Manatee County Florida

BRADENTON BEACH GRAVITY REPLACEMENT

MANATEE COUNTY

LICENSED PROFESSIONAL

MICHAEL A. SEMAGO, P.E.

FL LICENSE NUMBER 87501

FL DATE:

SERVICE LATERAL CONSTRUCTION I

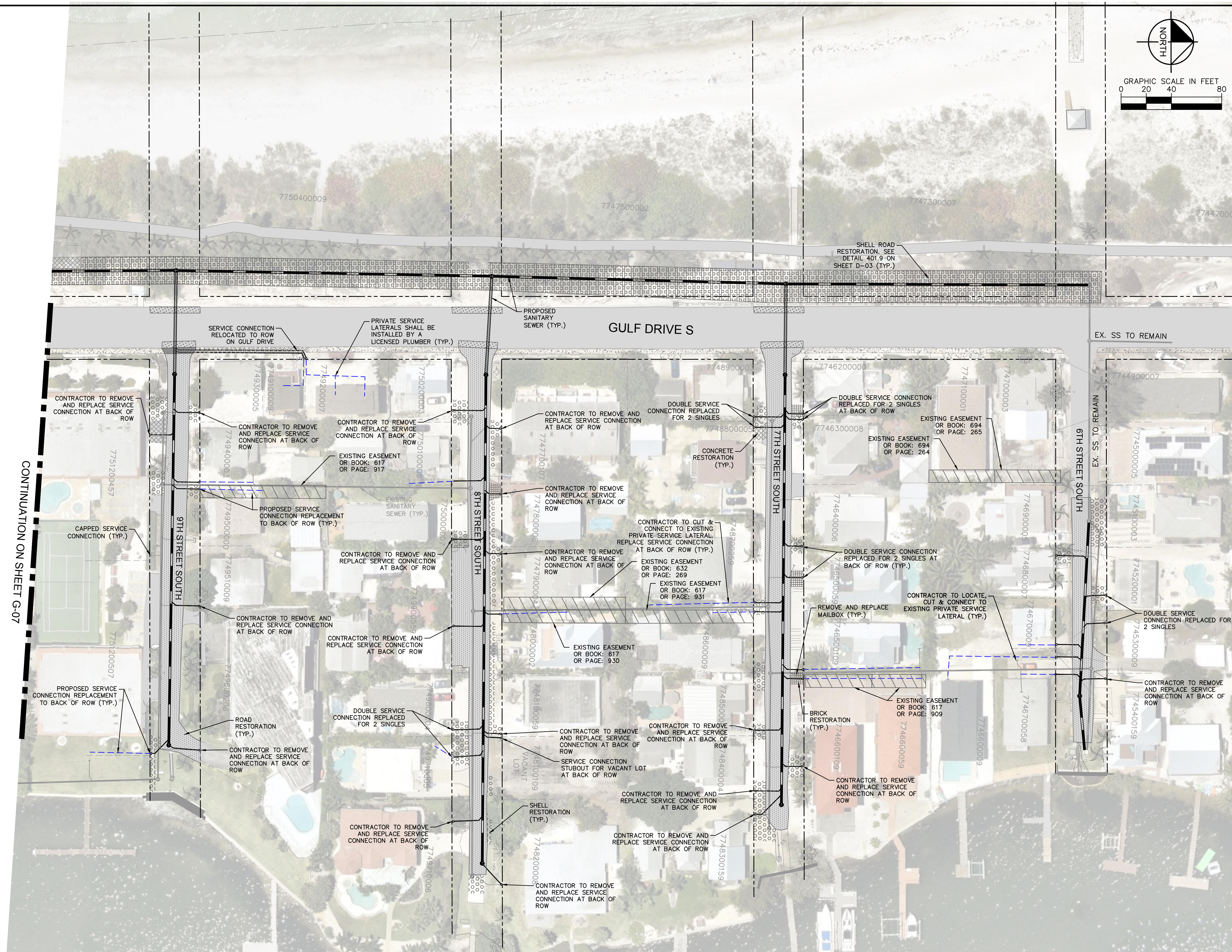
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G-07

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CONTINUATION ON SHEET G-08

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LEGEND:

- SINGLE SERVICE CONNECTION
- *PATH FROM ROW CLEANOUT TO CONNECTION ON PRIVATE PROPERTY (SEE NOTES BELOW)
- SIDEWALK/CONCRETE RESTORATION
- BRICK DRIVEWAY RESTORATION
- SHELL ROAD RESTORATION
- SHELL RESTORATION
- FULL DEPTH FDOT ROAD RESTORATION
- FULL ROAD RESTORATION
- MILL AND OVERLAY
- RECORDED EASEMENTS

- 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 OFF 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 ACHIEVE 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

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 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

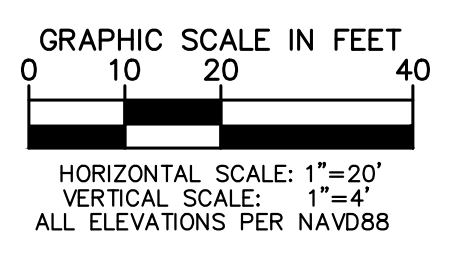
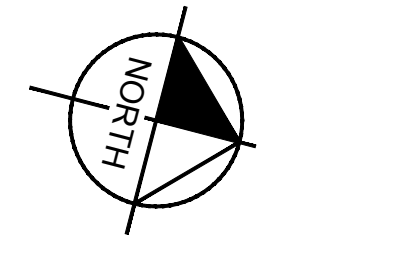
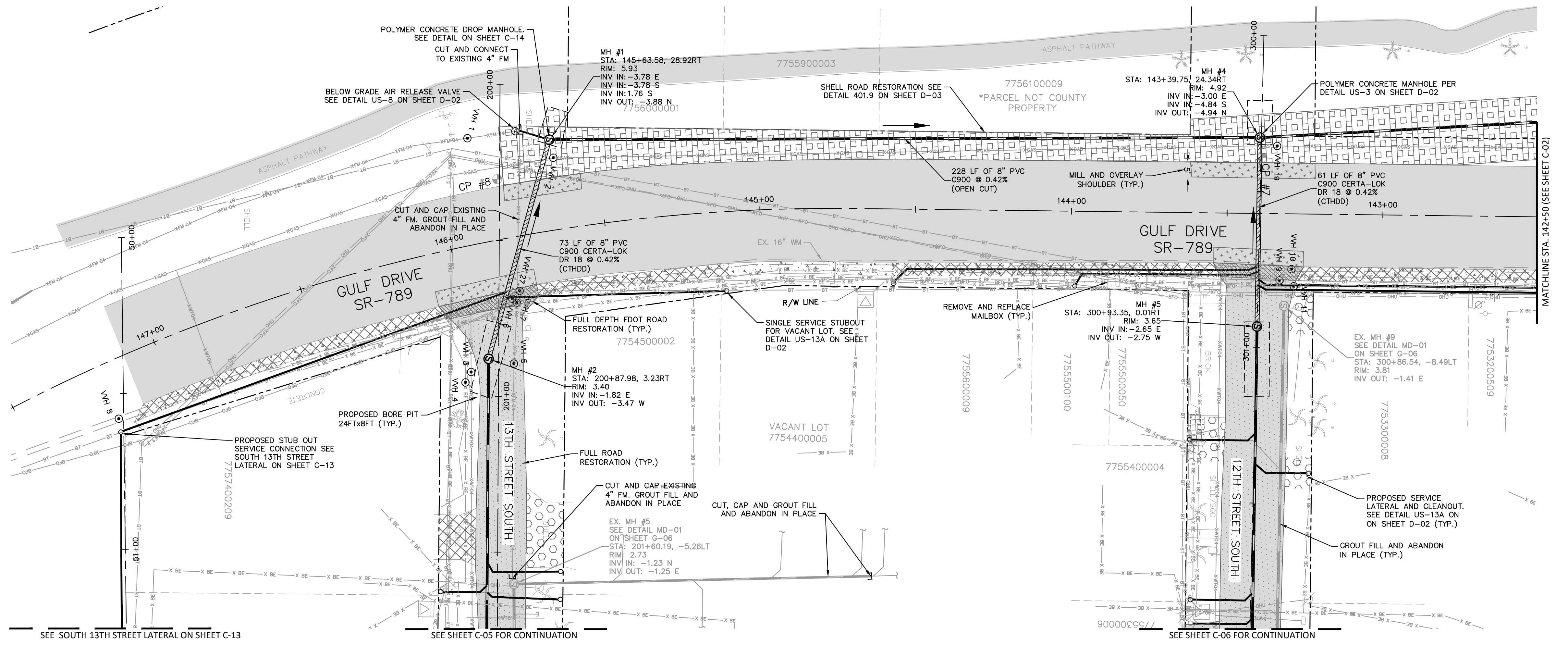
MANATEE COUNTY

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

SERVICE LATERAL CONSTRUCTION II

SHEET NUMBER
G-08

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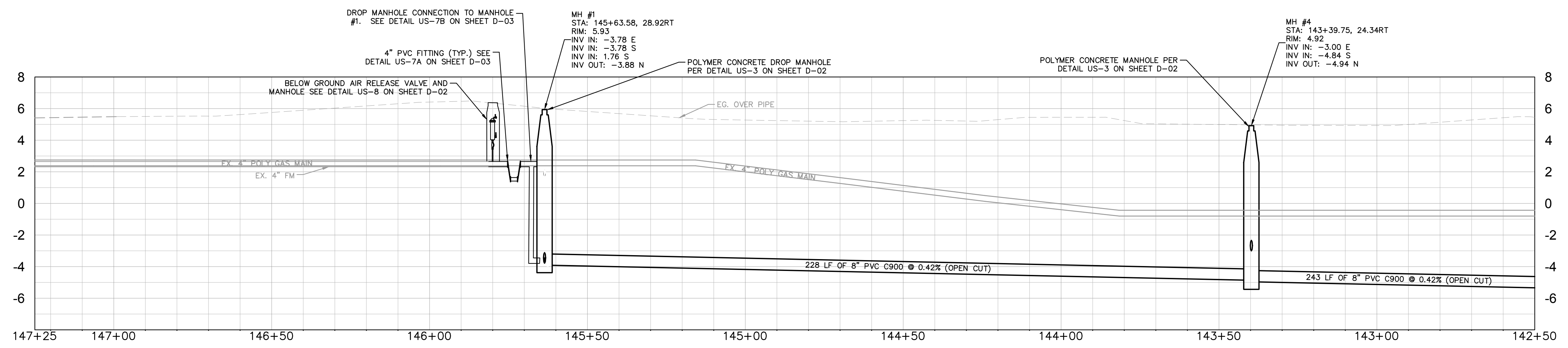
- LEGEND:**
- SIDEWALK/CONCRETE RESTORATION
 - BRICK DRIVEWAY RESTORATION
 - SHELL ROAD RESTORATION
 - SHELL RESTORATION
 - FULL DEPTH FDOT ROAD RESTORATION
 - FULL ROAD RESTORATION
 - MILL AND OVERLAY
- GENERAL NOTES:**

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%
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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.
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***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

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 PHONE: 727-547-3999
 WWW.KIMLEY-HORN.COM Registry No. 696

Manatee County

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.

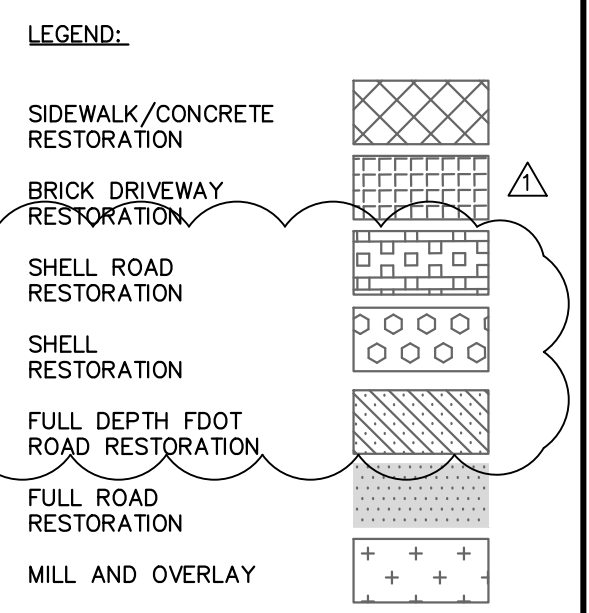
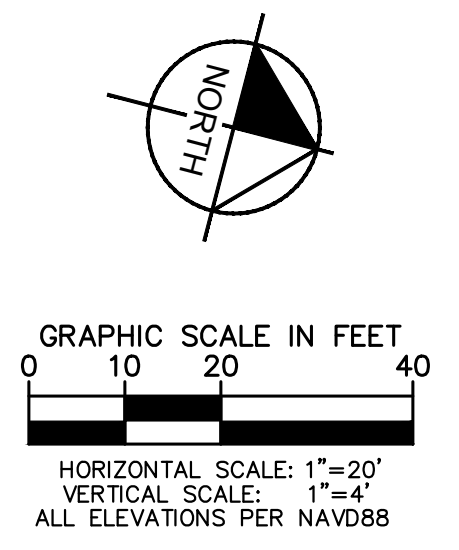
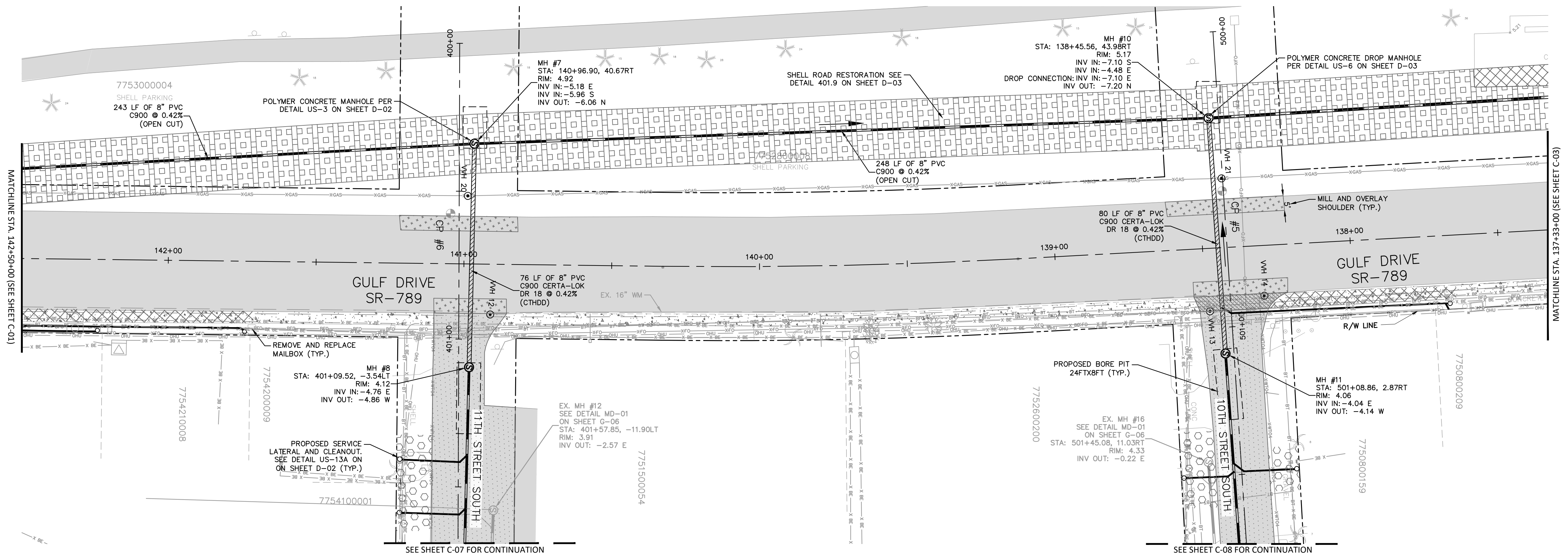
FL LICENSE NUMBER 87501

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

SHEET NUMBER

C-01

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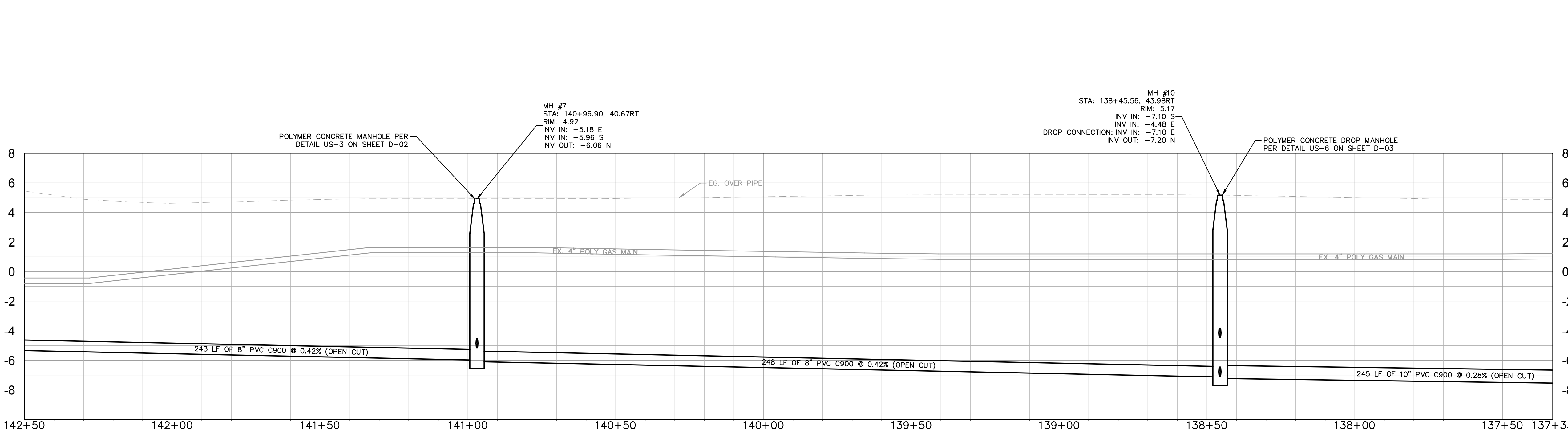


- GENERAL NOTES:**
- CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC).
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***NOTES:**
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GROUNDWATER / 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

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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

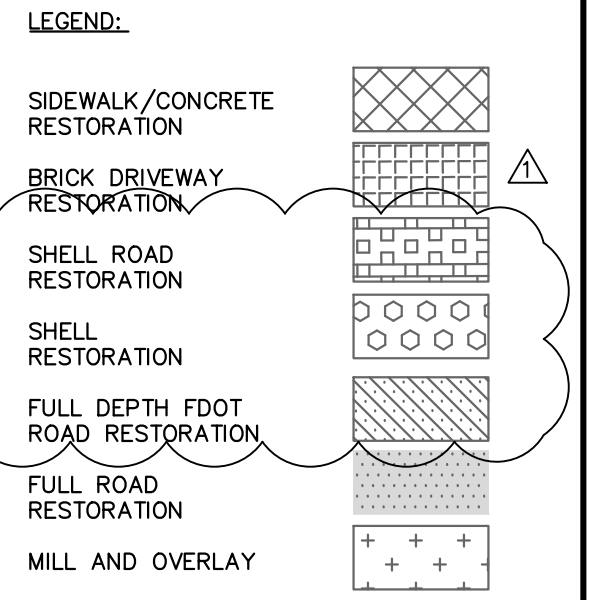
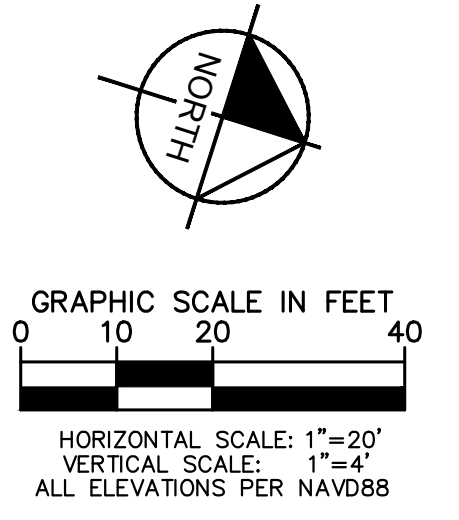
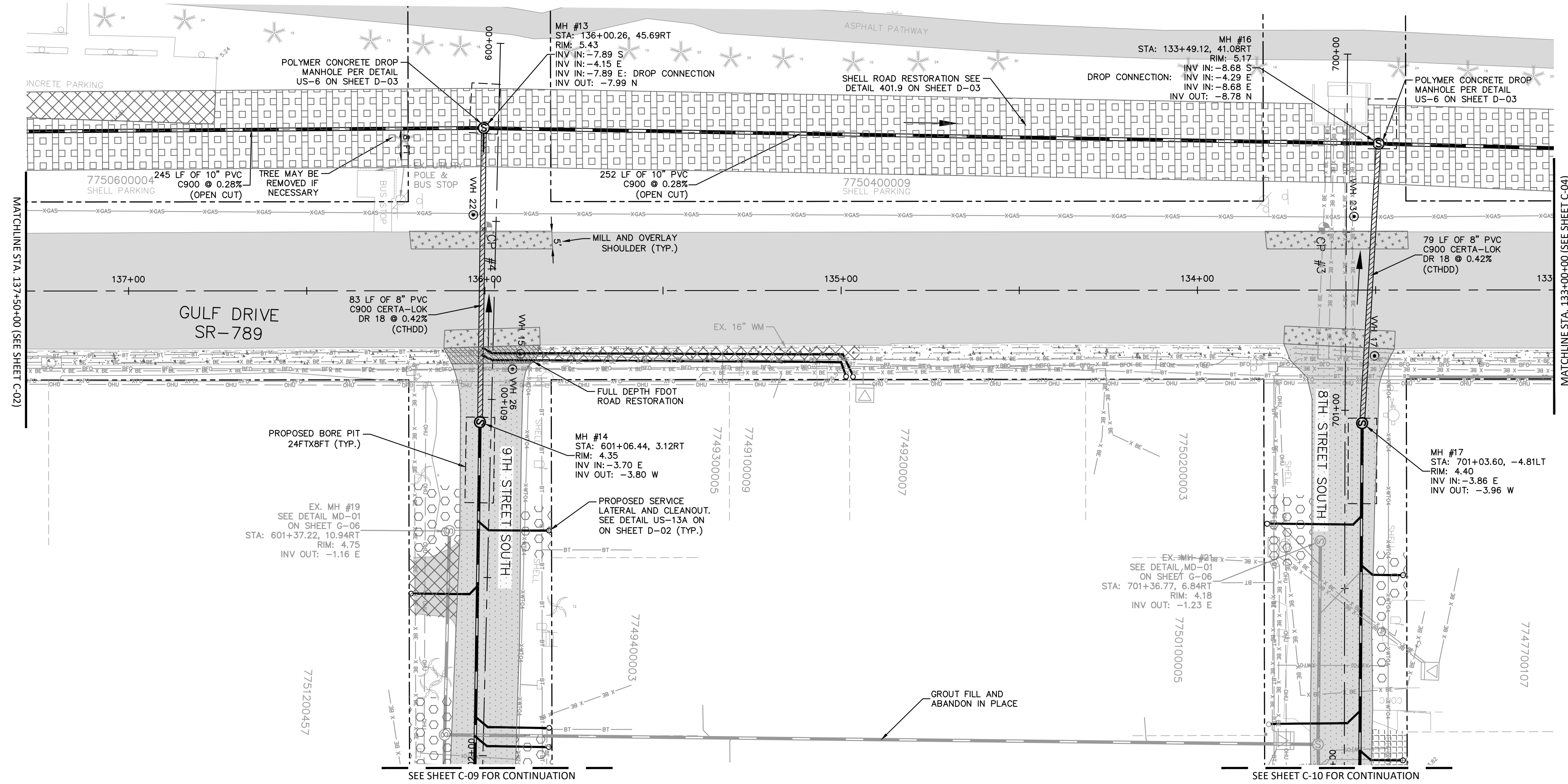
LICENSED PROFESSIONAL
MICHAEL A. SEMAGO, P.E.
FL LICENSE NUMBER 87501

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

SHEET NUMBER
C-02



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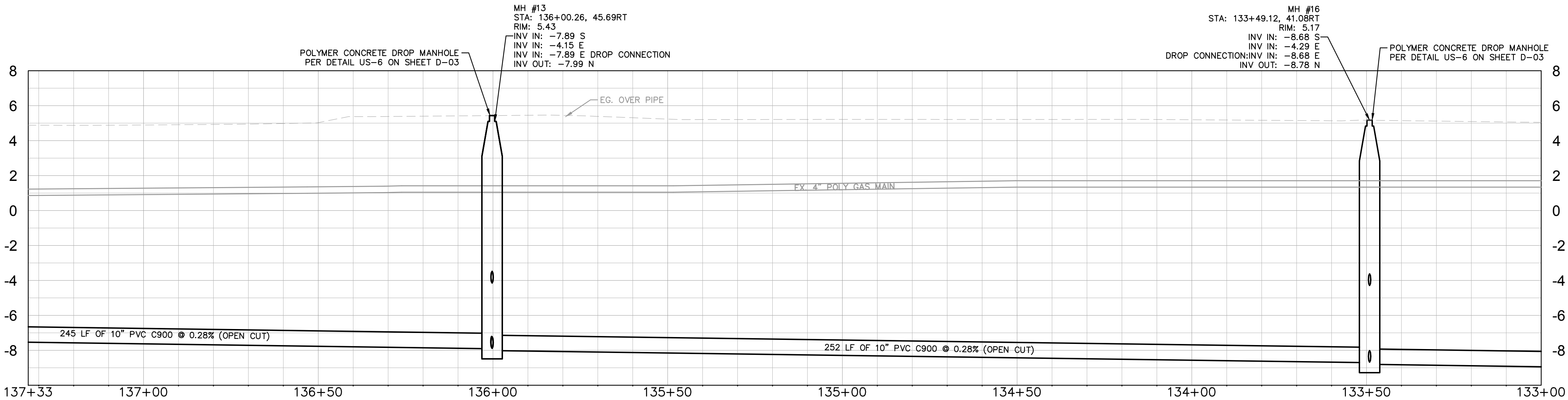


- GENERAL NOTES:**
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 PHONE: 727-547-3999
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KHA PROJECT 148400056
 DATE JULY 2021
 SCALE AS SHOWN
 DESIGNED BY MAS
 DRAWN BY KTM
 CHECKED BY WEW

Manatee County

BRADENTON BEACH GRAVITY REPLACEMENT

MANATEE COUNTY

LICENSED PROFESSIONAL

MICHAEL A. SEMAGO, P.E.

FL LICENSE NUMBER 87501

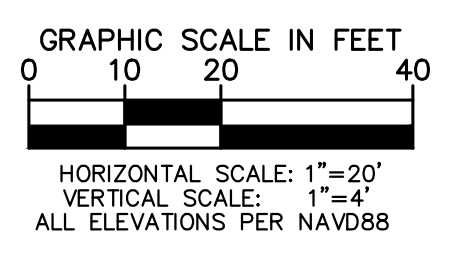
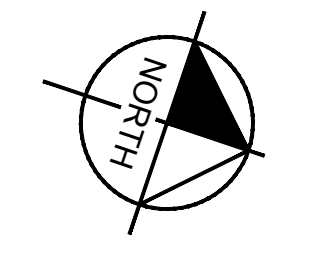
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GULF DRIVE S [STA. 137+33-133+00]

SHEET NUMBER

C-03





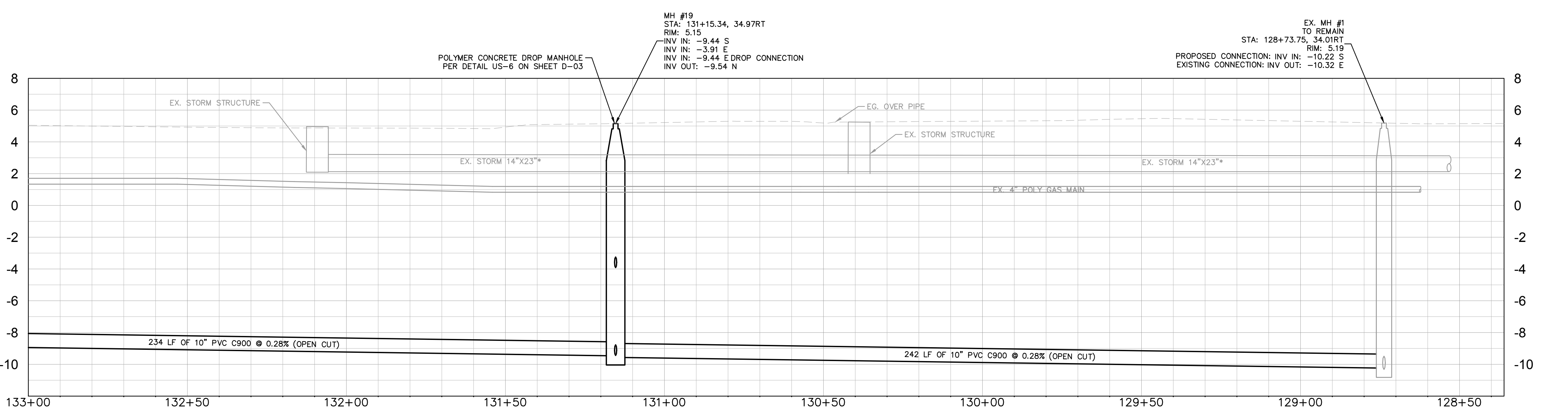
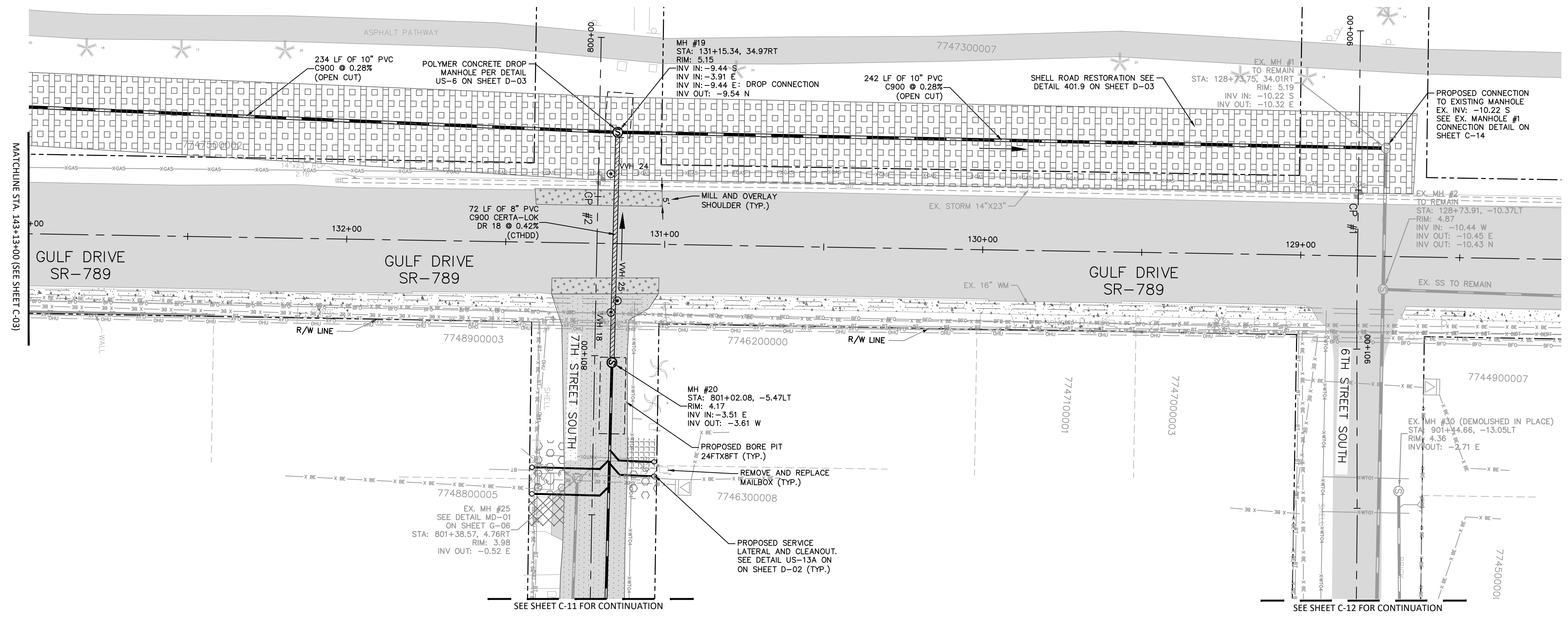
- LEGEND:**
- SIDEWALK/CONCRETE RESTORATION
 - BRICK DRIVEWAY RESTORATION
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GROUNDWATER / DEWATERING NOTE:
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Kimley & Horn

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KHA PROJECT 148400056
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CHECKED BY WEW

Manatee County
FLORIDA

BRADENTON BEACH GRAVITY REPLACEMENT

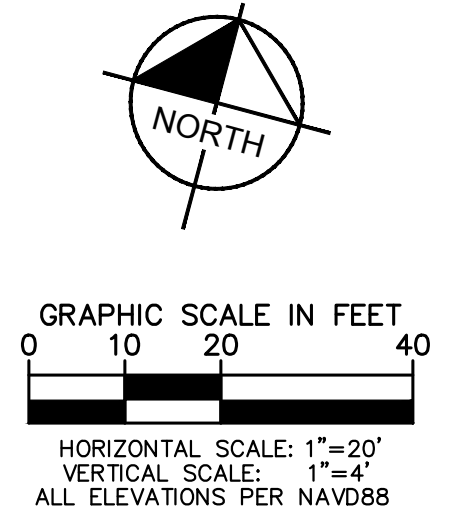
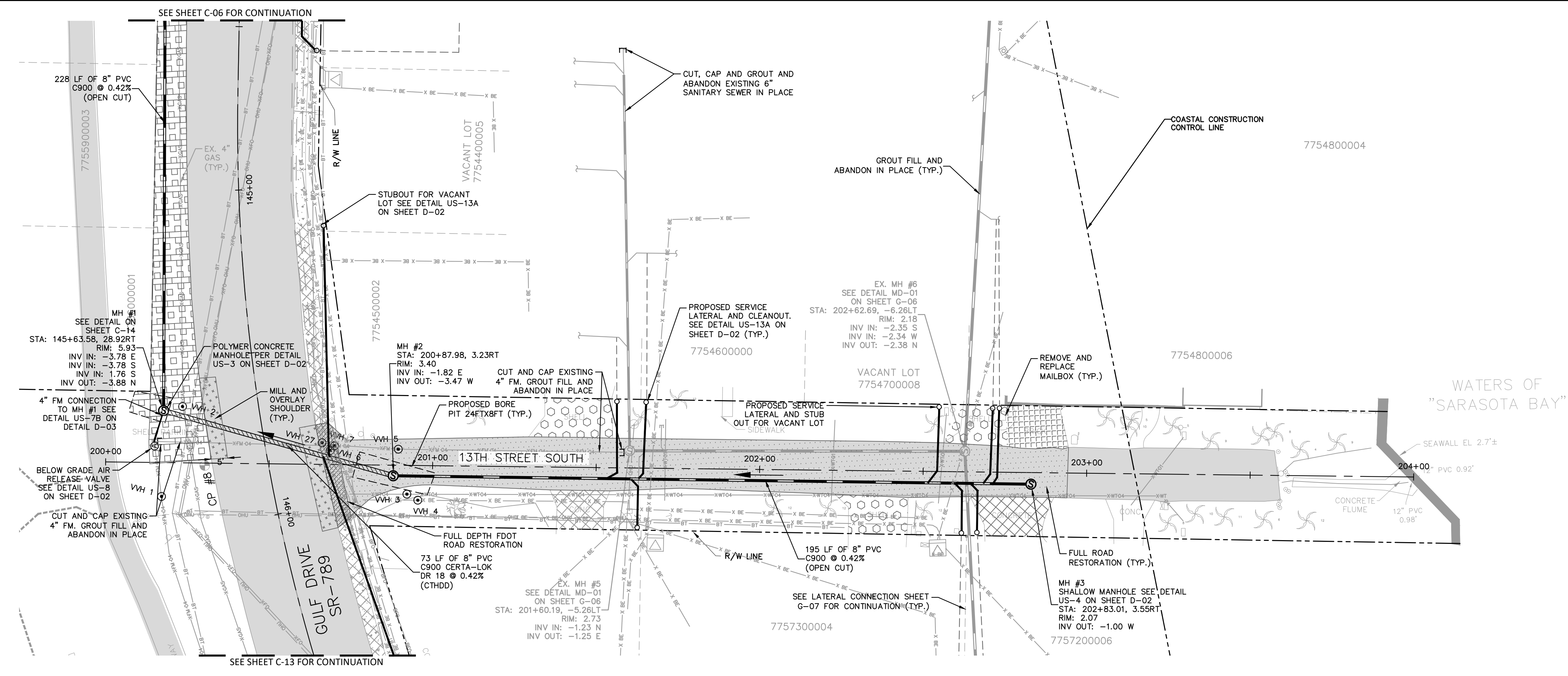
MANATEE COUNTY

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

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

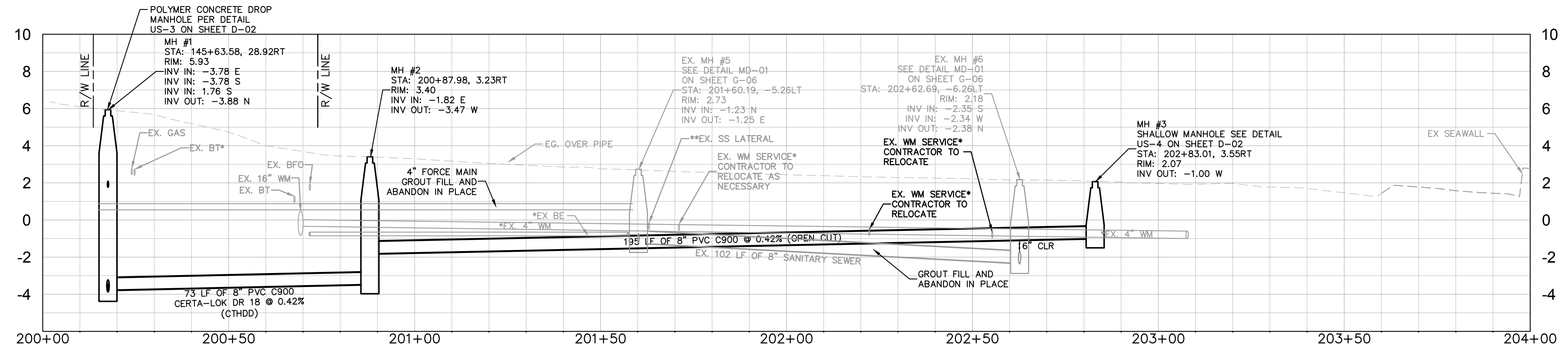
SHEET NUMBER
C-04

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- LEGEND:**
- SIDEWALK/CONCRETE RESTORATION [Pattern]
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****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.

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No.	REVISIONS	DATE	BY

Kimley & Horn

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Manatee County

BRADENTON BEACH GRAVITY REPLACEMENT

MANATEE COUNTY

LICENSED PROFESSIONAL

MICHAEL A. SEMAGO, P.E.

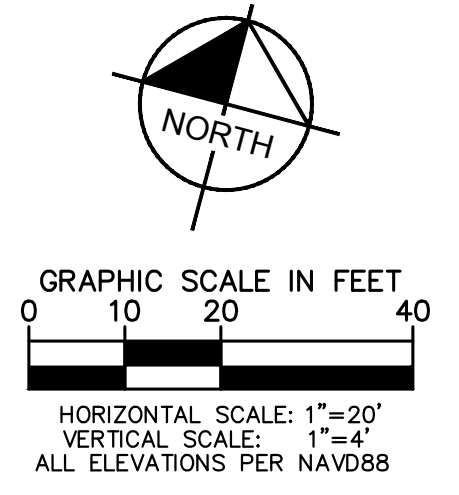
FL LICENSE NUMBER 87501

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

SHEET NUMBER

C-05

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

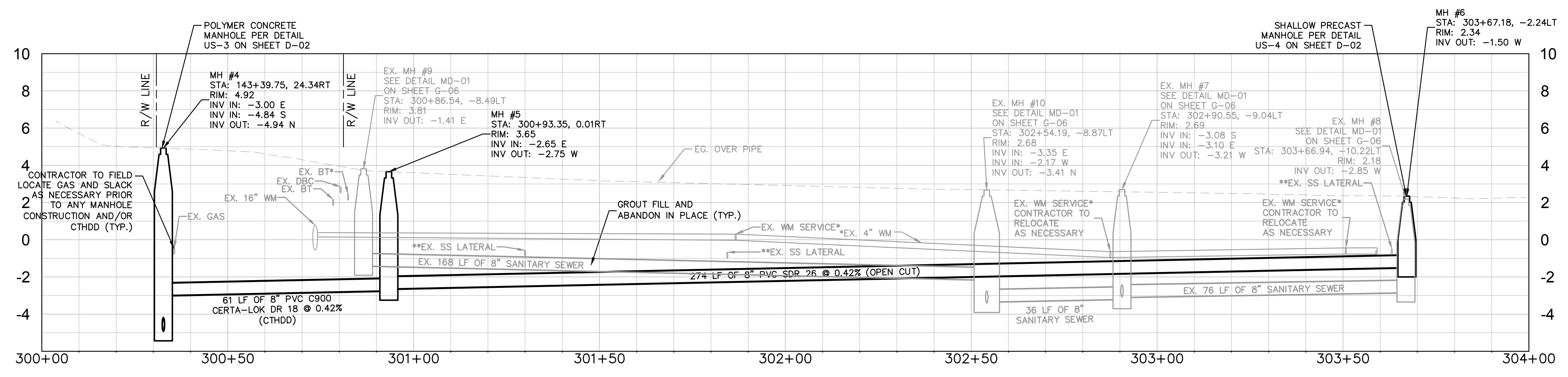
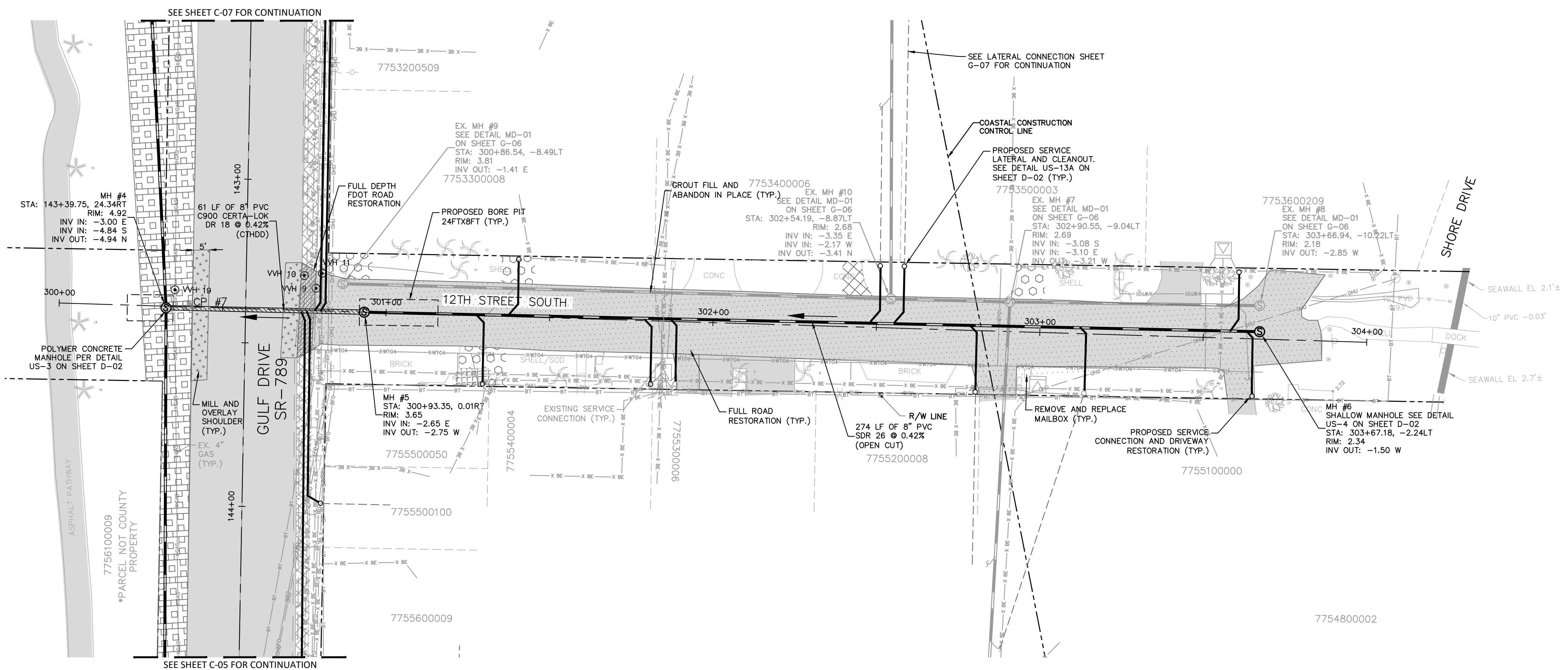
- GENERAL NOTES:**
- CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC).
 - CONTRACTOR TO MAINTAIN MINIMUM PIPE SLOPES PER MANATEE COUNTY STANDARDS:
 - 8-INCH MIN SLOPE = 0.42%
 - 10-INCH MIN SLOPE = 0.28%
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 - 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:**
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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.

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

Kimley & Horn

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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

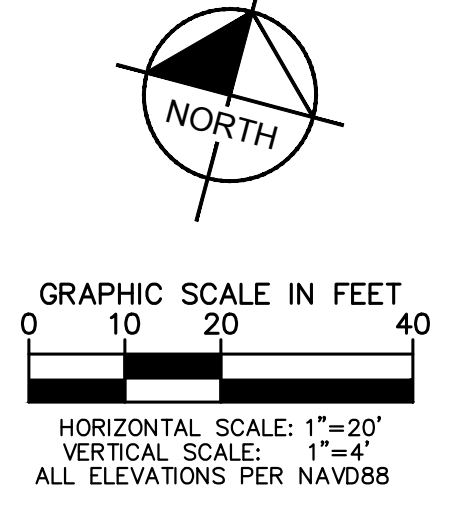
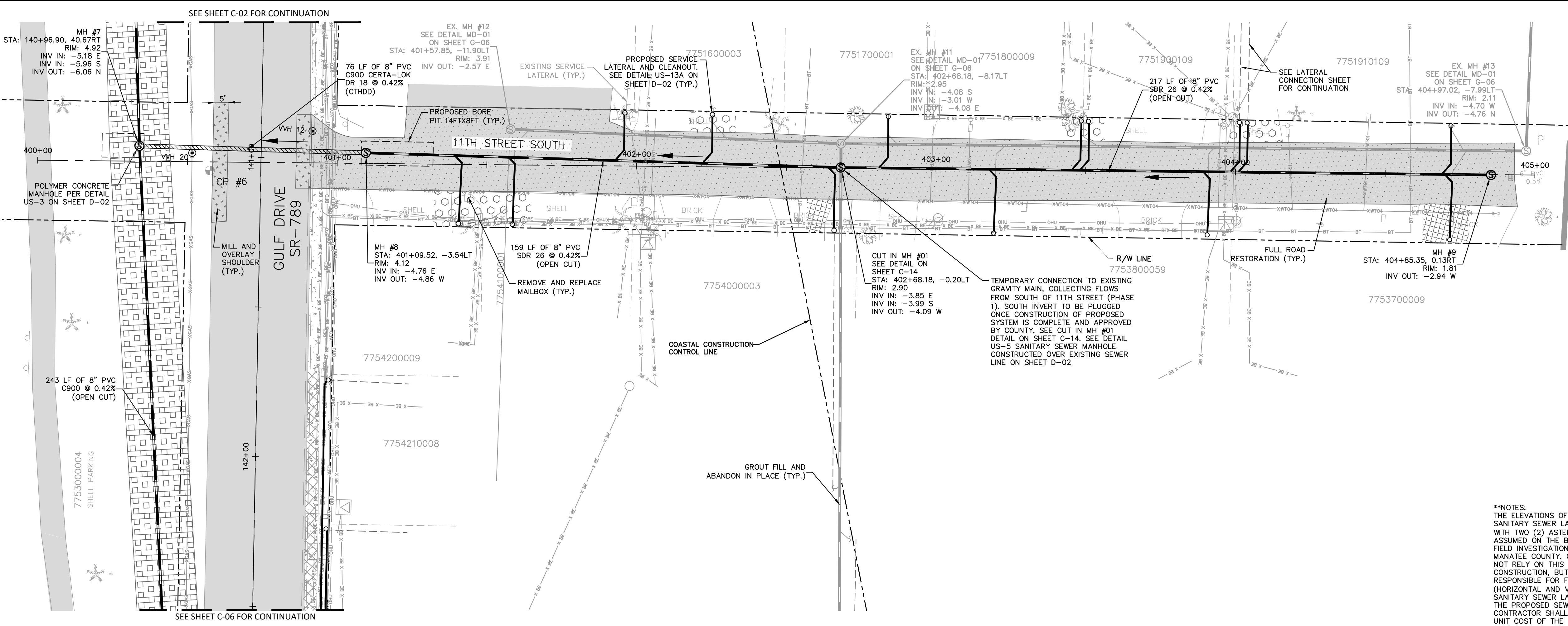
LICENSED PROFESSIONAL
MICHAEL A. SEMAGO, P.E.
FL LICENSE NUMBER 87501

MANATEE COUNTY FL DATE:

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

SHEET NUMBER **C-06**

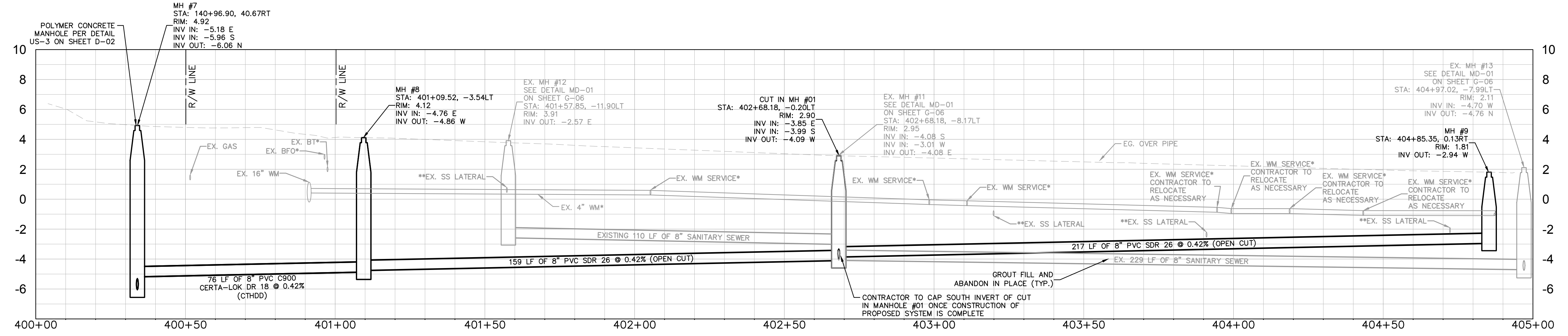
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Manatee County Florida

BRADENTON BEACH GRAVITY REPLACEMENT

MANATEE COUNTY

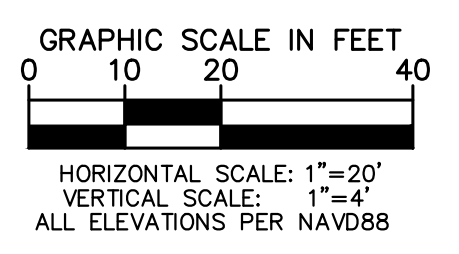
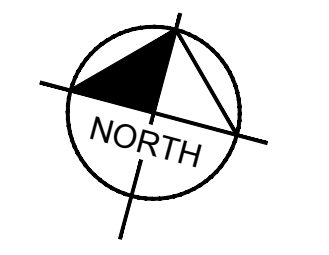
LICENSED PROFESSIONAL

MICHAEL A. SEMAGO, P.E.

FL LICENSE NUMBER
87501

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

SHEET NUMBER
C-07



- LEGEND:**
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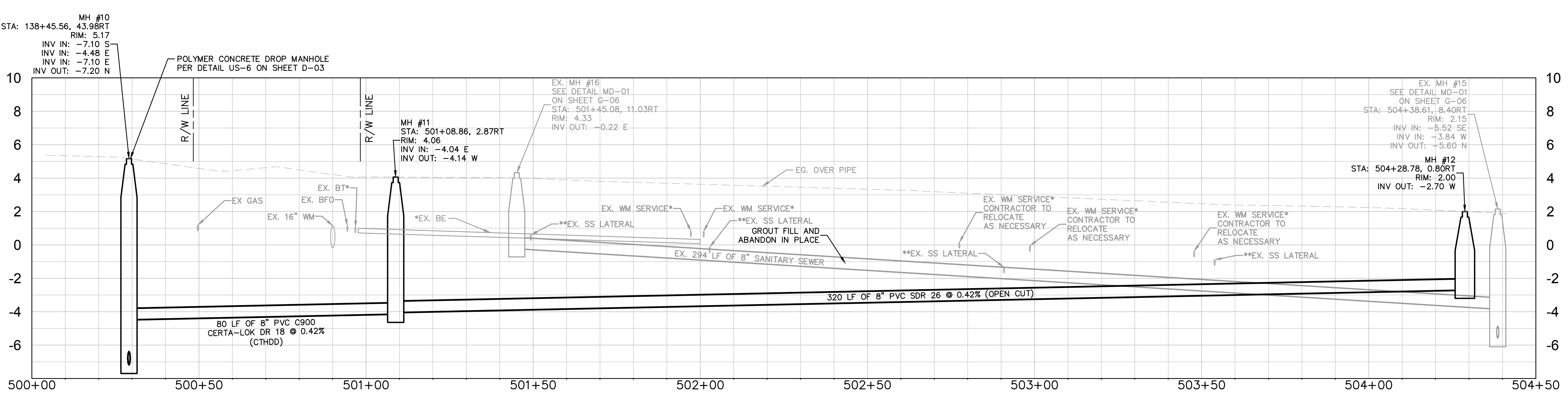
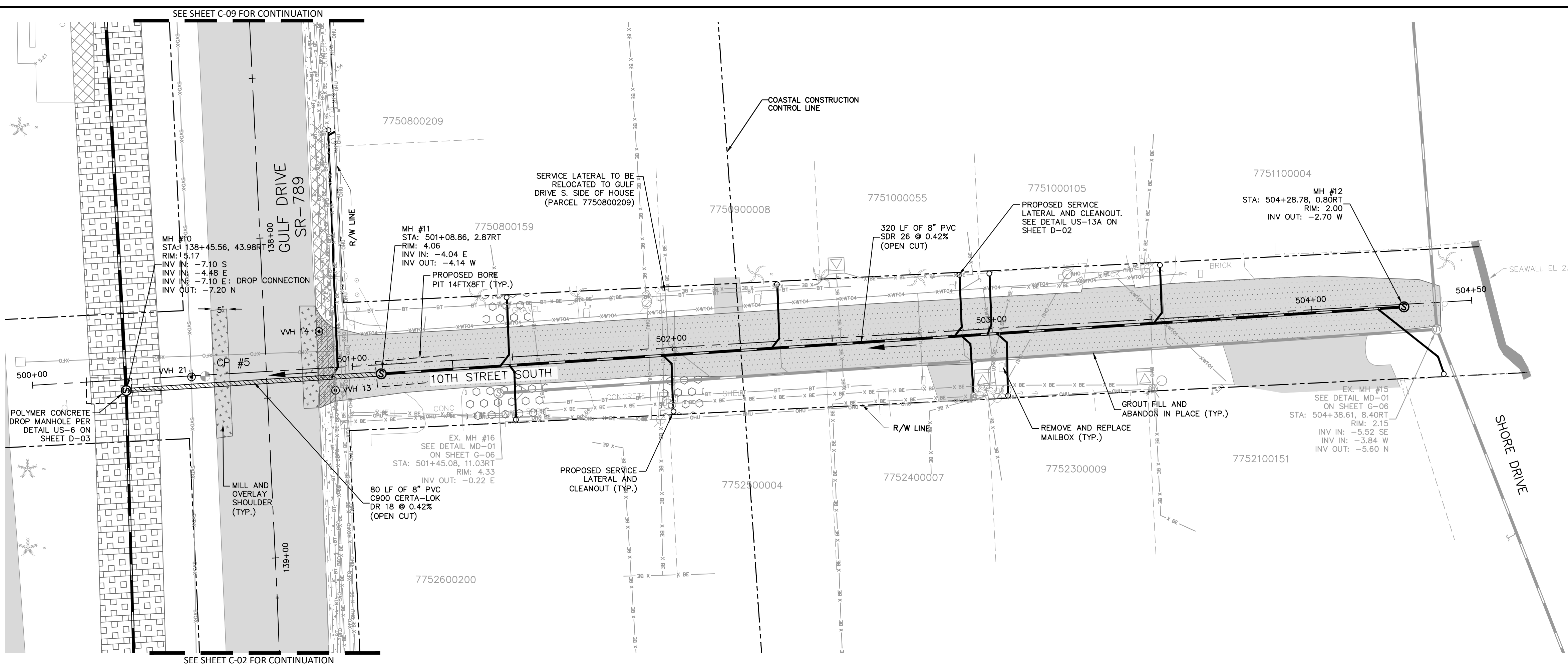
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No.	REVISIONS	DATE	BY

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PHONE: 727-547-3999
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Manatee County
FLORIDA

BRADENTON BEACH GRAVITY REPLACEMENT

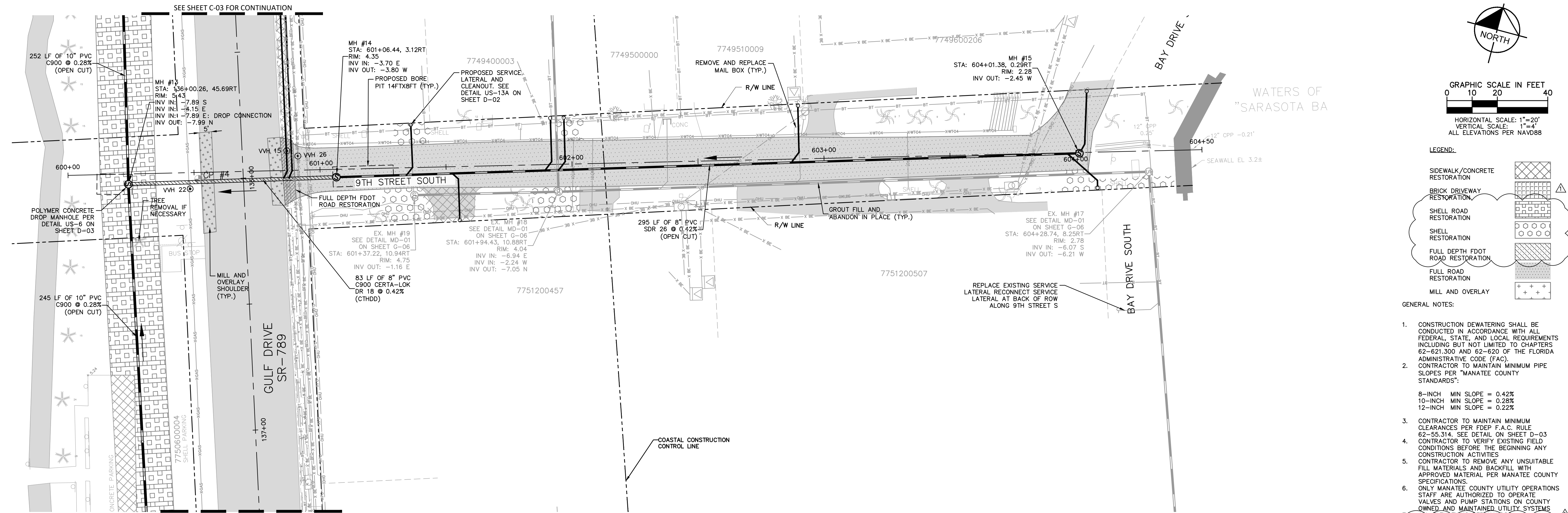
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LICENSED PROFESSIONAL
MICHAEL A. SEMAGO, P.E.
FL LICENSE NUMBER 87501

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

SHEET NUMBER
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GRAPHIC SCALE IN FEET
 0 10 20 40
 HORIZONTAL SCALE: 1"=20'
 VERTICAL SCALE: 1"=4'
 ALL ELEVATIONS PER NAVD88

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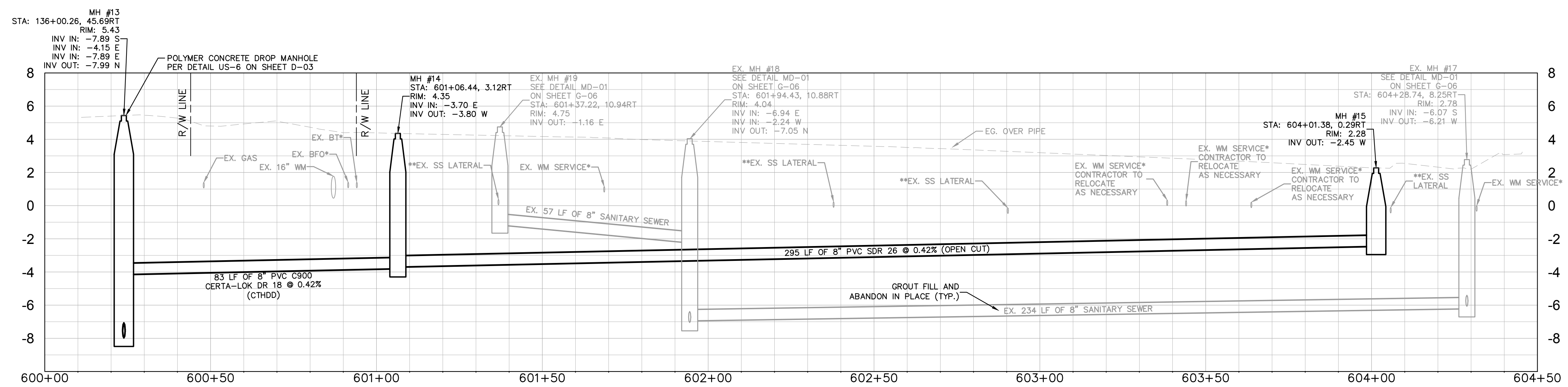
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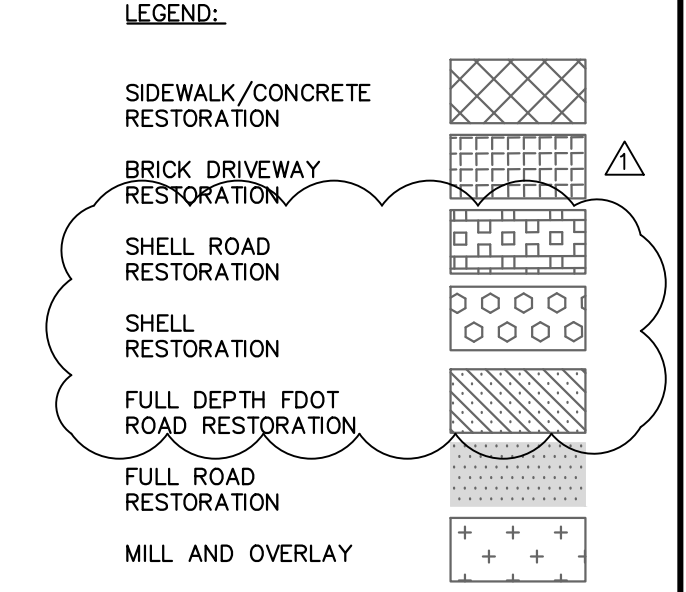
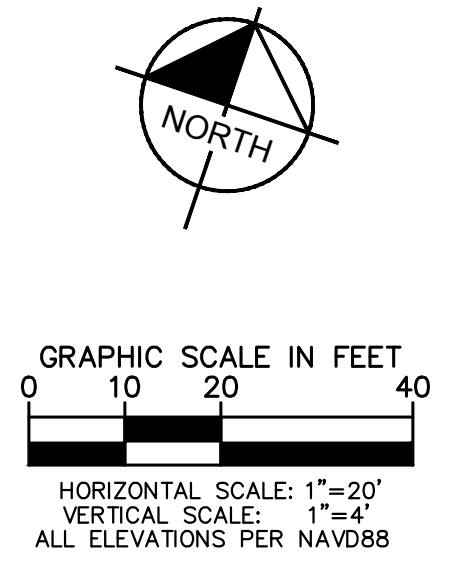
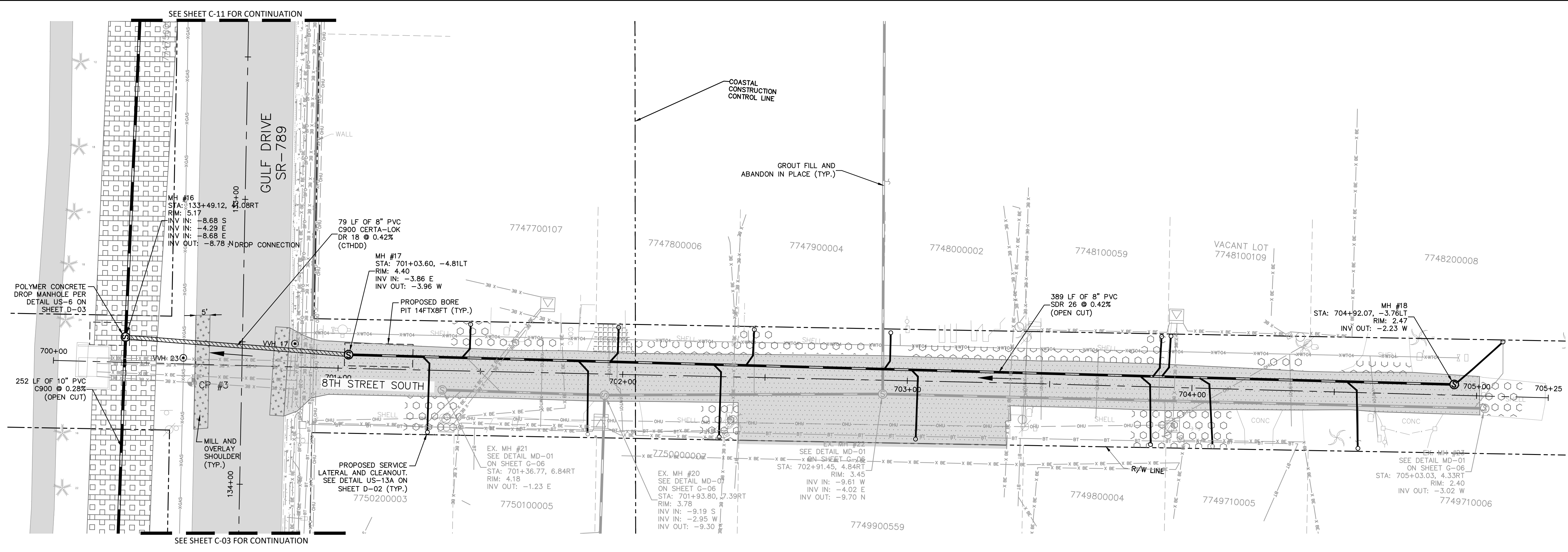
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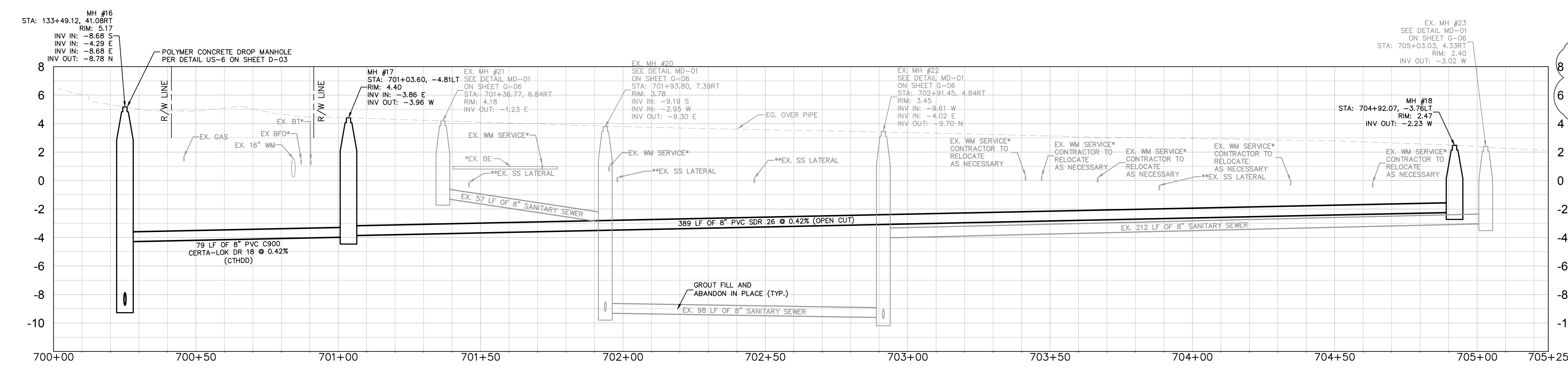
9TH STREET S [STA. 600+00-604+50]

SHEET NUMBER C-09

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No.	REVISIONS	DATE	BY

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 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

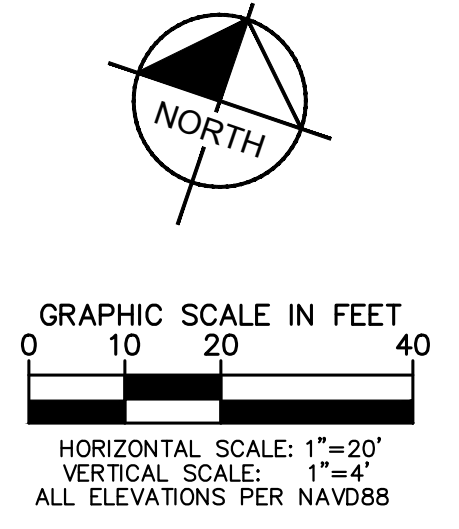
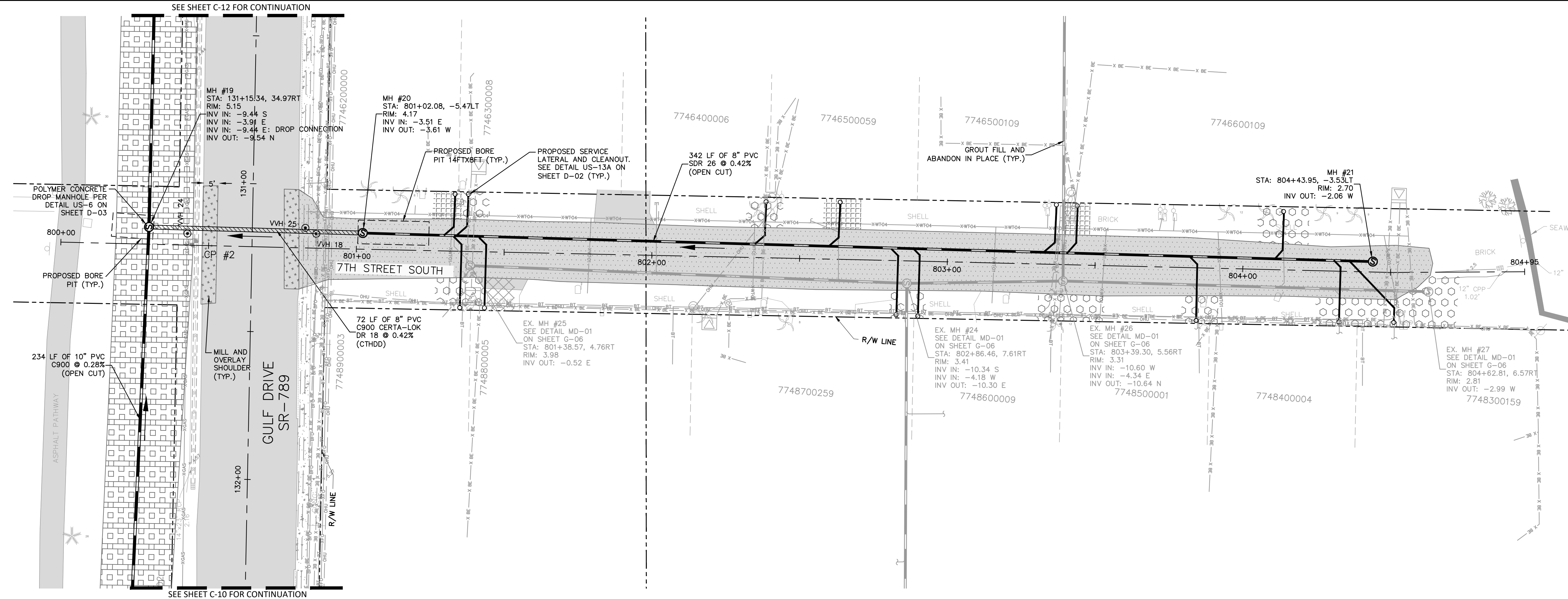
KHA PROJECT 148400056
 DATE JULY 2021
 SCALE AS SHOWN
 DESIGNED BY MAS
 DRAWN BY KTM
 CHECKED BY WEW
 MANATEE COUNTY

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

8TH STREET S [STA. 700+00-705+25]

SHEET NUMBER
C-10

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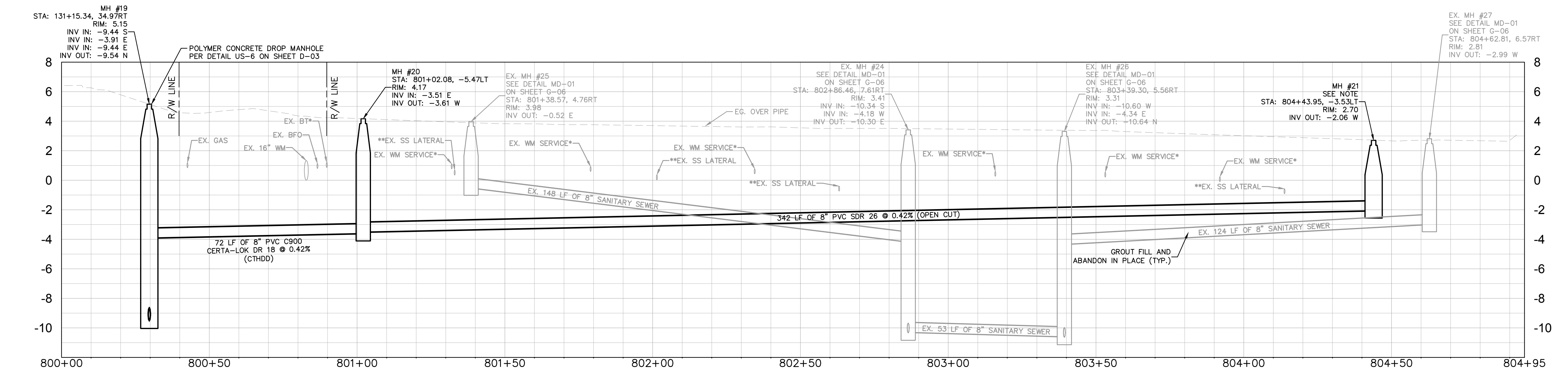
- LEGEND:**
- SIDEWALK/CONCRETE RESTORATION
 - BRICK DRIVEWAY RESTORATION
 - SHELL ROAD RESTORATION
 - SHELL RESTORATION
 - FULL DEPTH FDOT ROAD RESTORATION
 - ROAD RESTORATION
 - MILL AND OVERLAY

- 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:
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 - 10-INCH MIN SLOPE = 0.28%
 - 12-INCH MIN SLOPE = 0.22%
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***NOTES:**
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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.

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****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

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 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

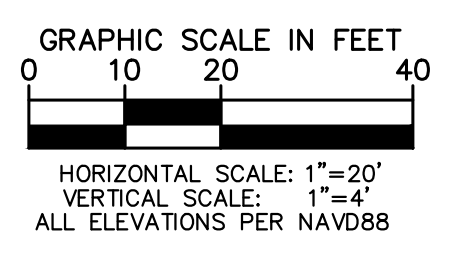
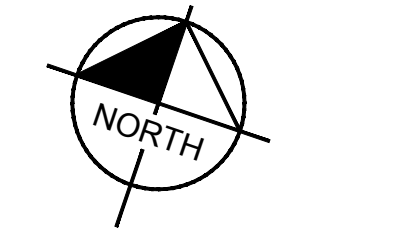
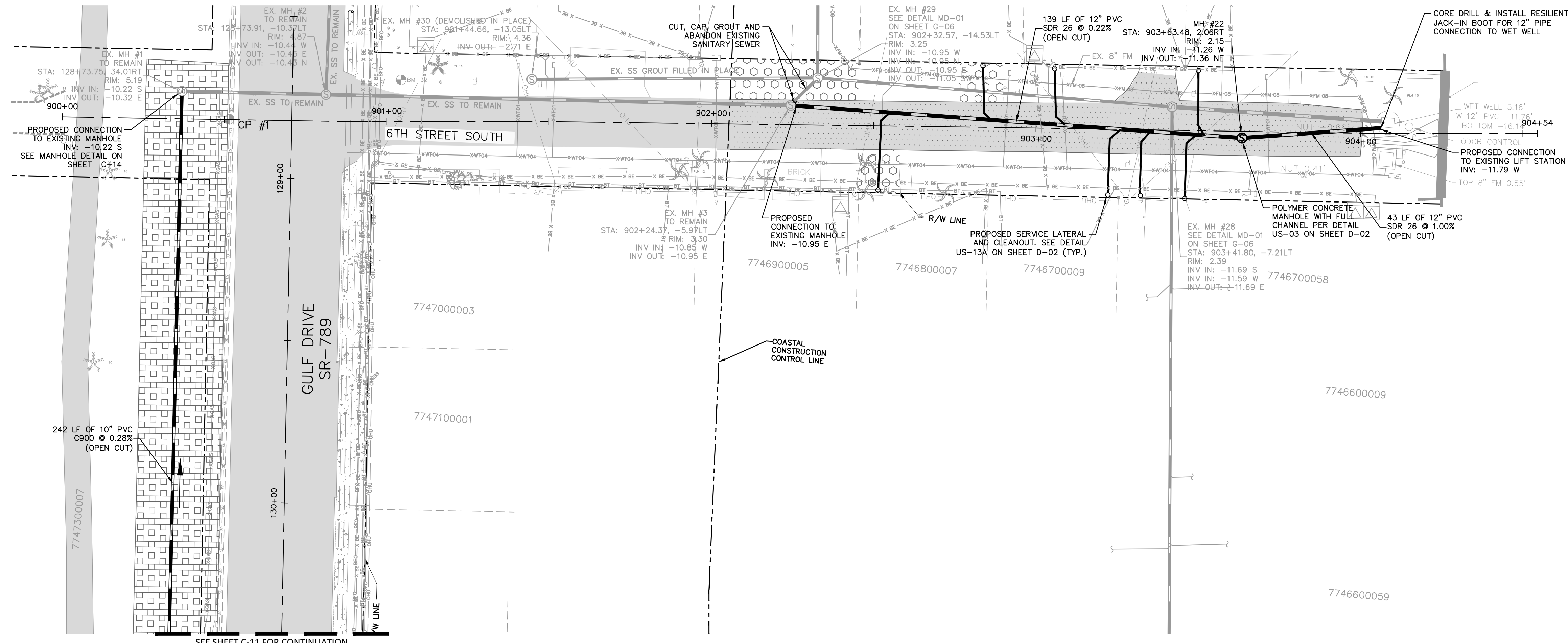
7TH STREET S [STA. 800+00-804+95]

SHEET NUMBER

C-11



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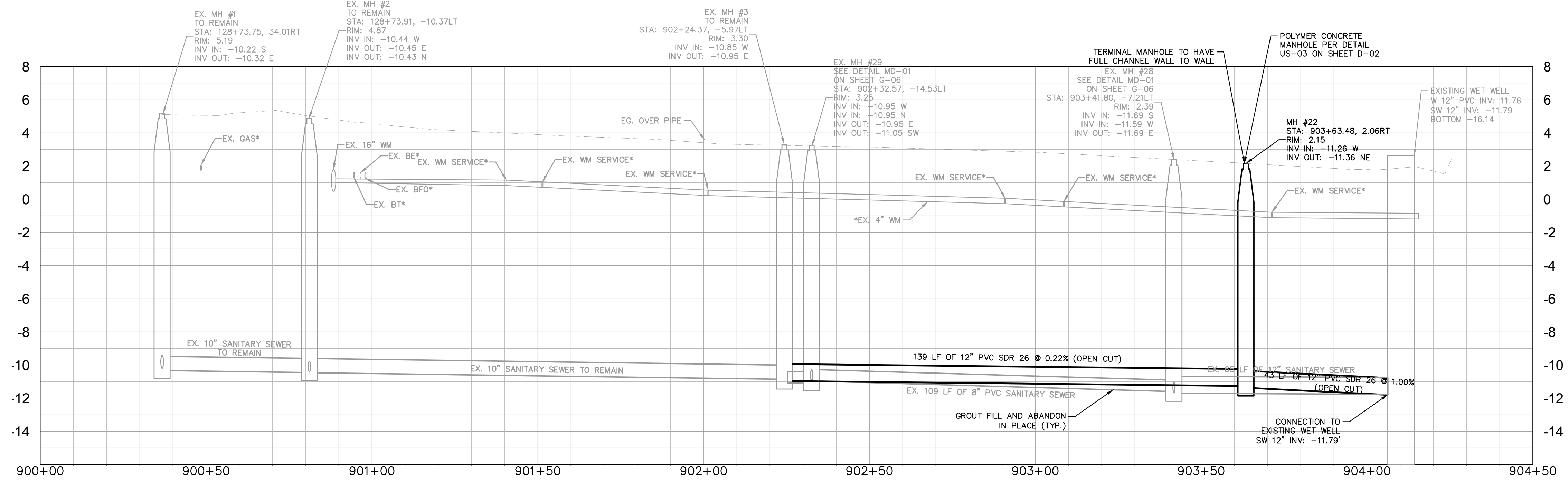
- LEGEND:**
- SIDEWALK/CONCRETE RESTORATION
 - BRICK DRIVEWAY RESTORATION
 - SHELL ROAD RESTORATION
 - SHELL RESTORATION
 - FULL DEPTH FDOT ROAD RESTORATION
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ADDENDUM #3	7/16/2021	MAS
No.	REVISIONS	DATE BY

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 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:

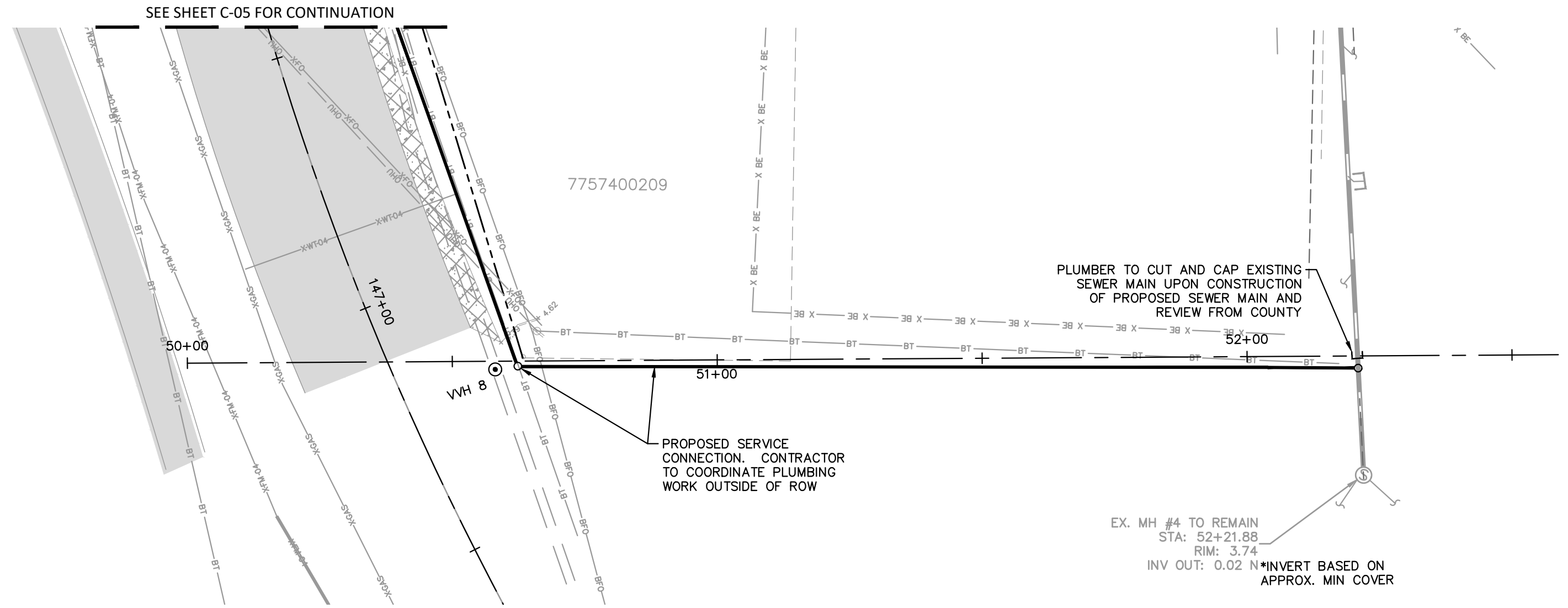
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C-12

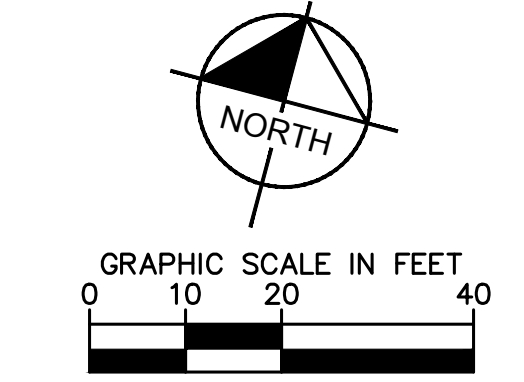
SHEET NUMBER
C-12



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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
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No.	REVISIONS	DATE	BY

Kimley >>> Horn

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 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

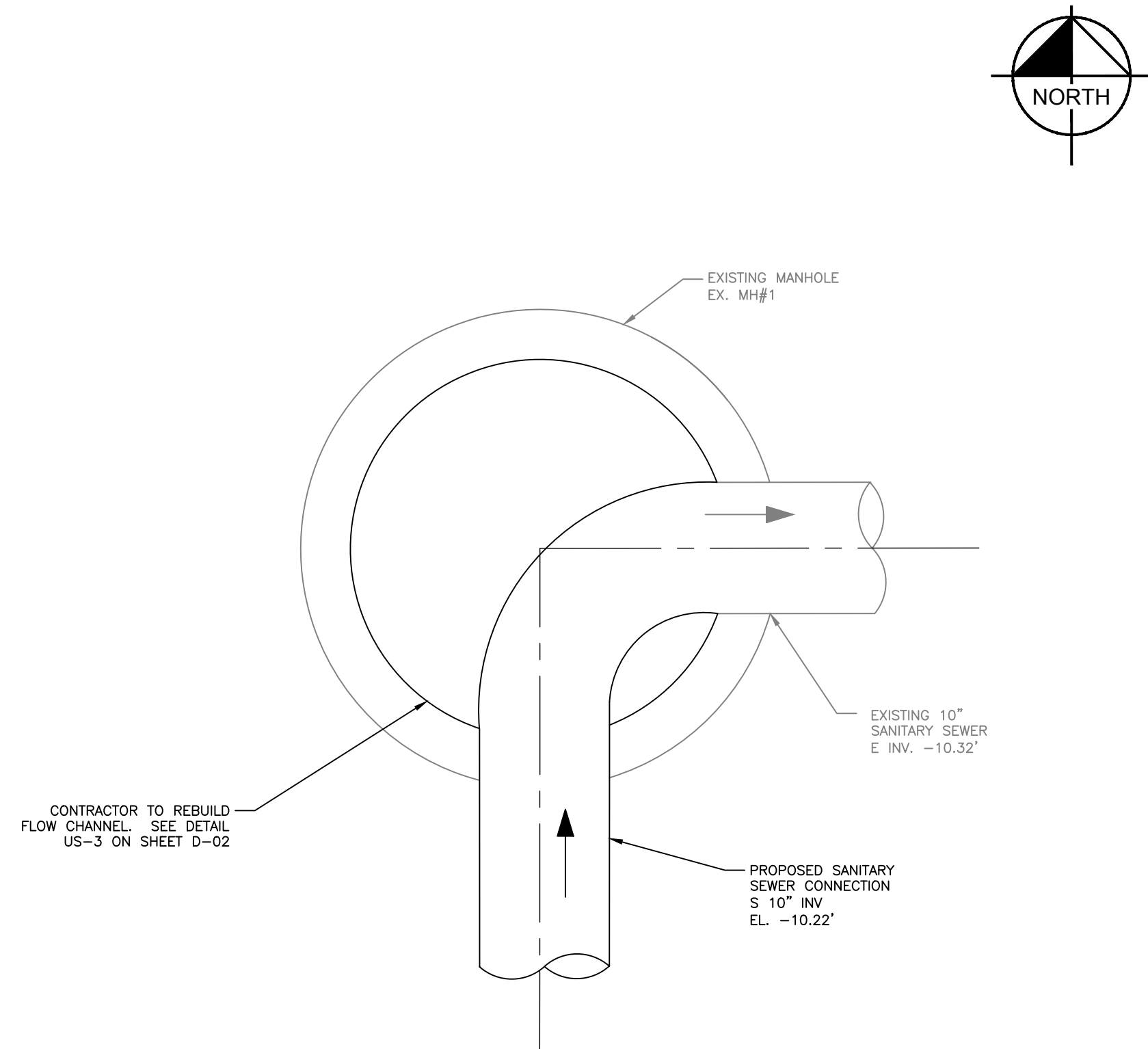
MANATEE COUNTY FL

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

SOUTH 13TH STREET LATERAL

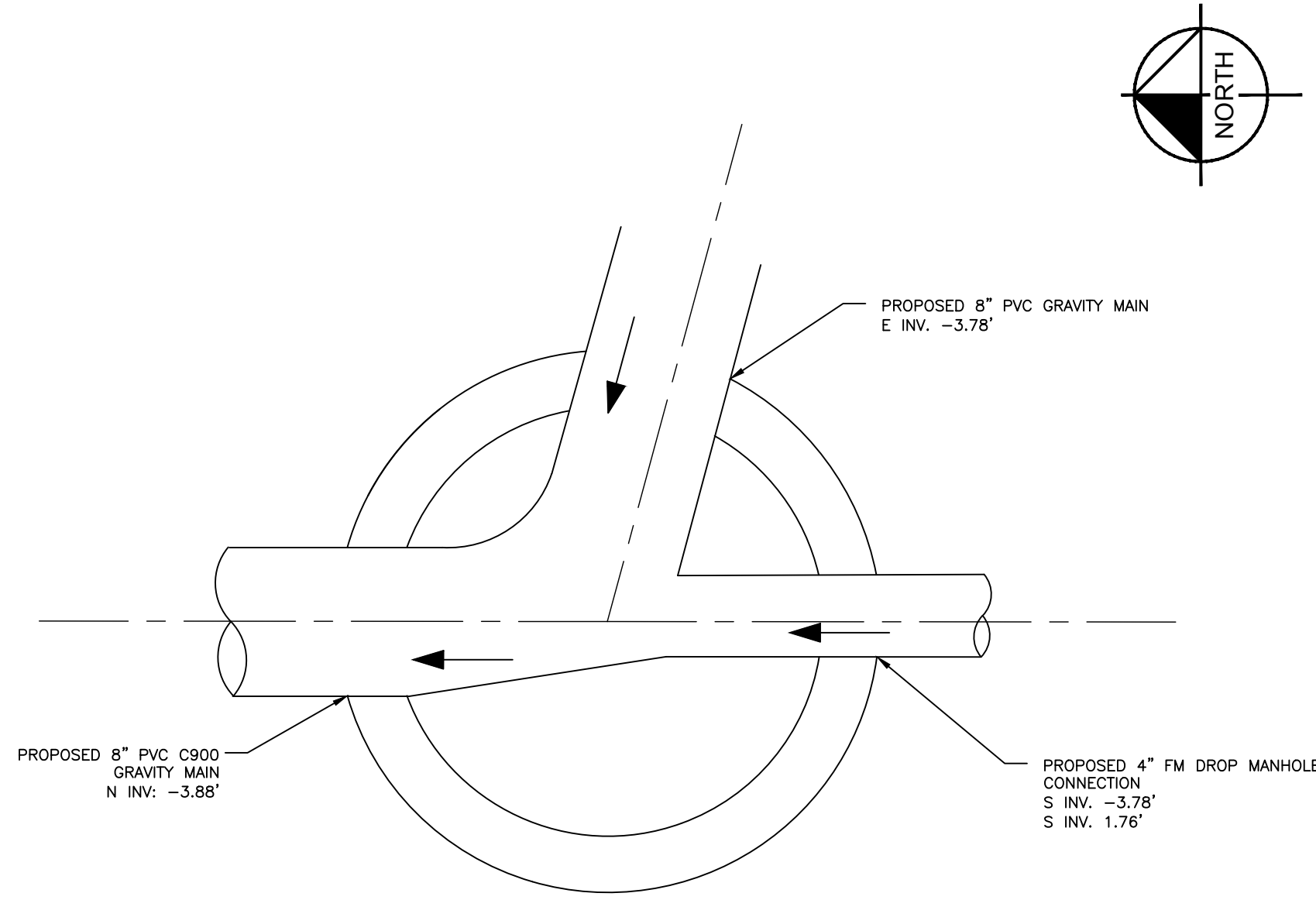
SHEET NUMBER
C-13

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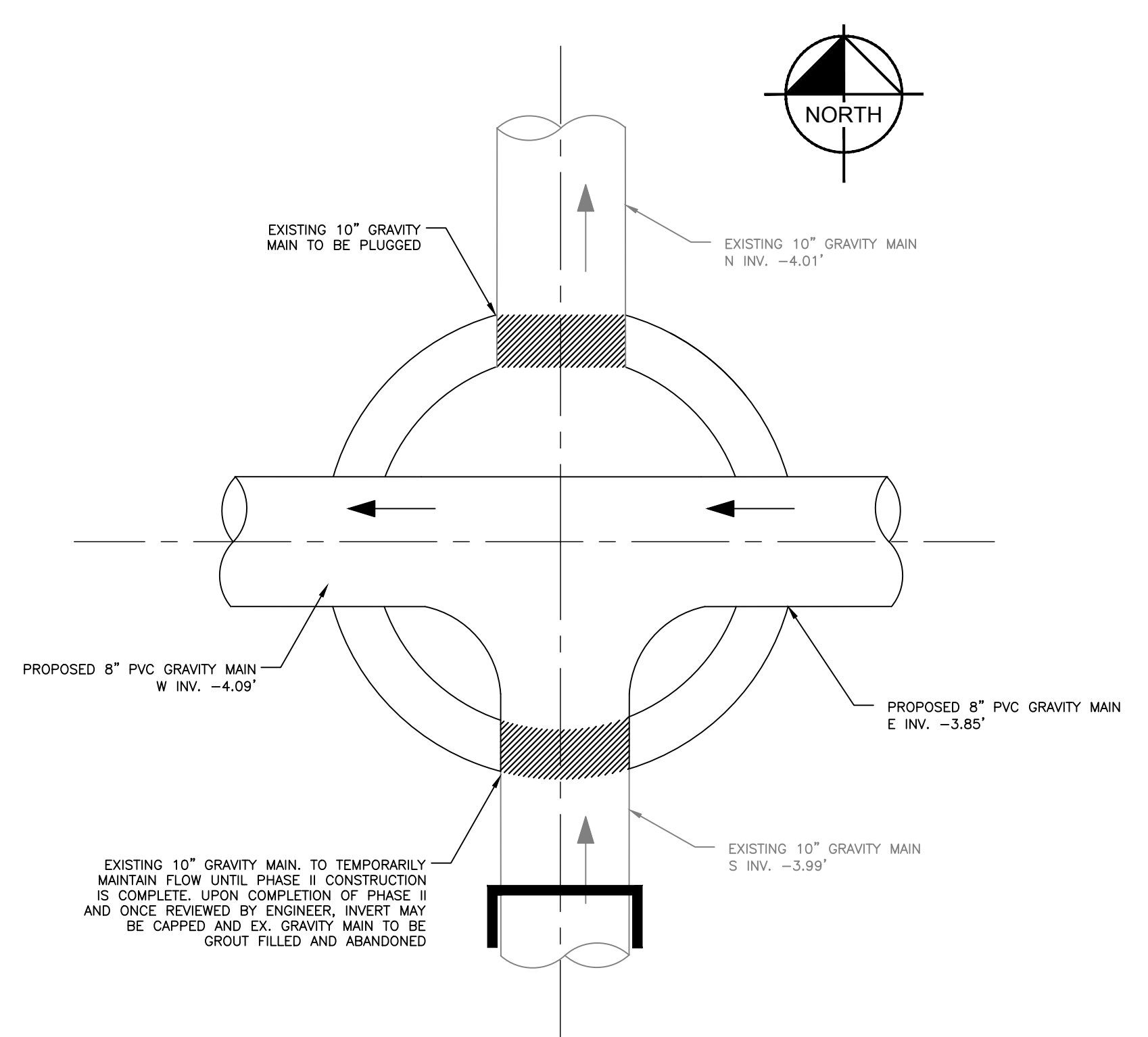
EXISTING MH #1 CONNECTION

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



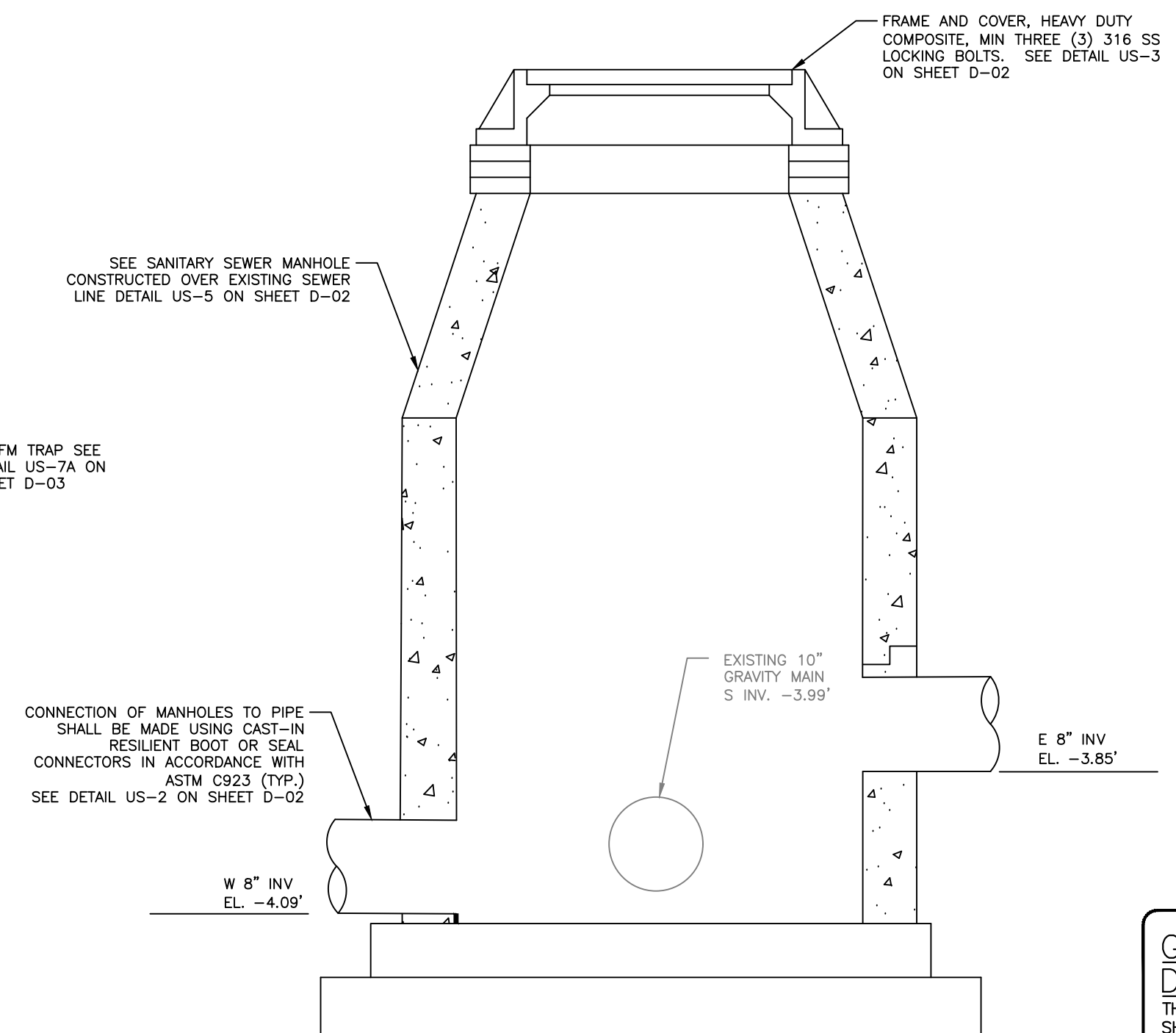
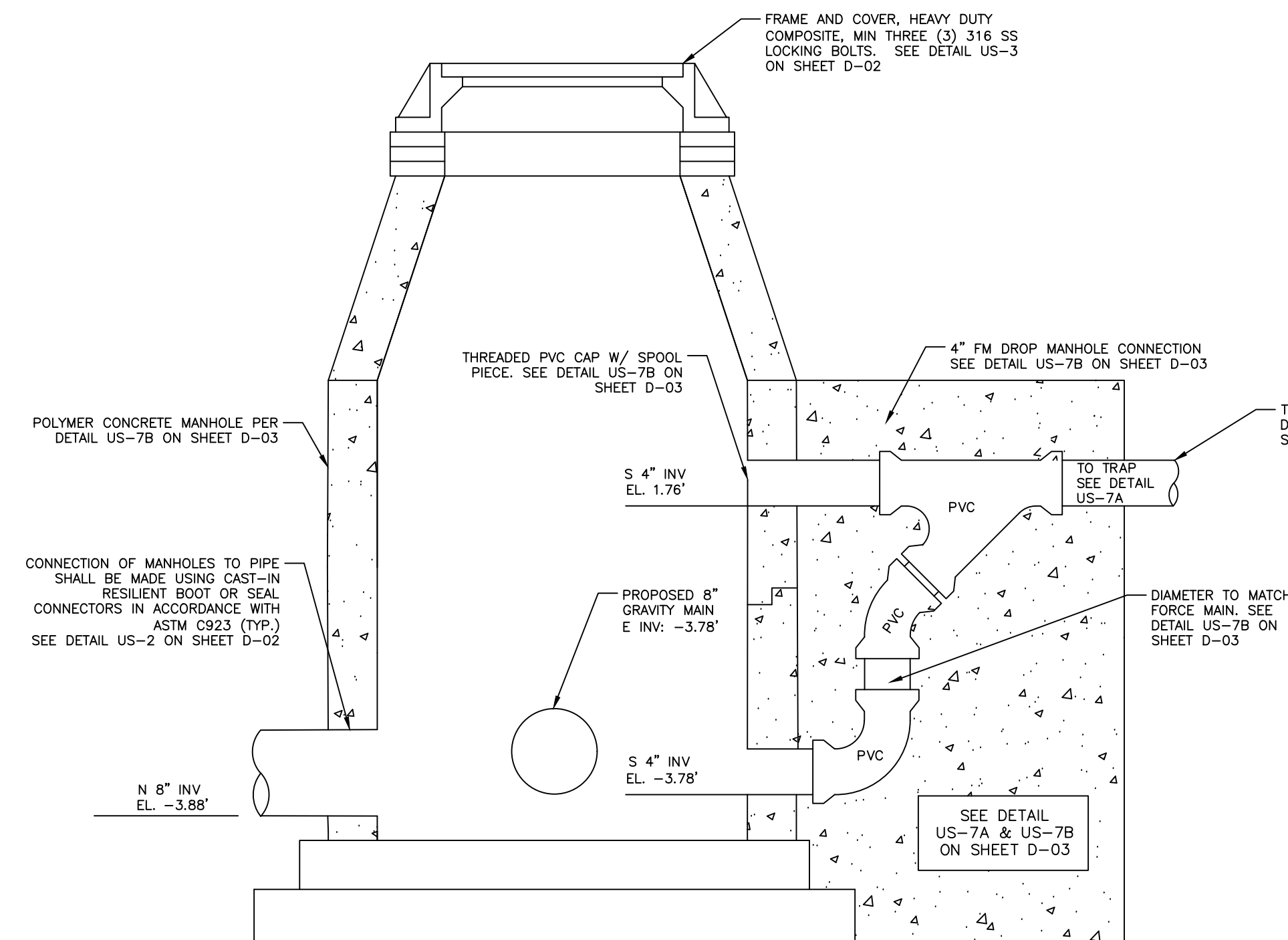
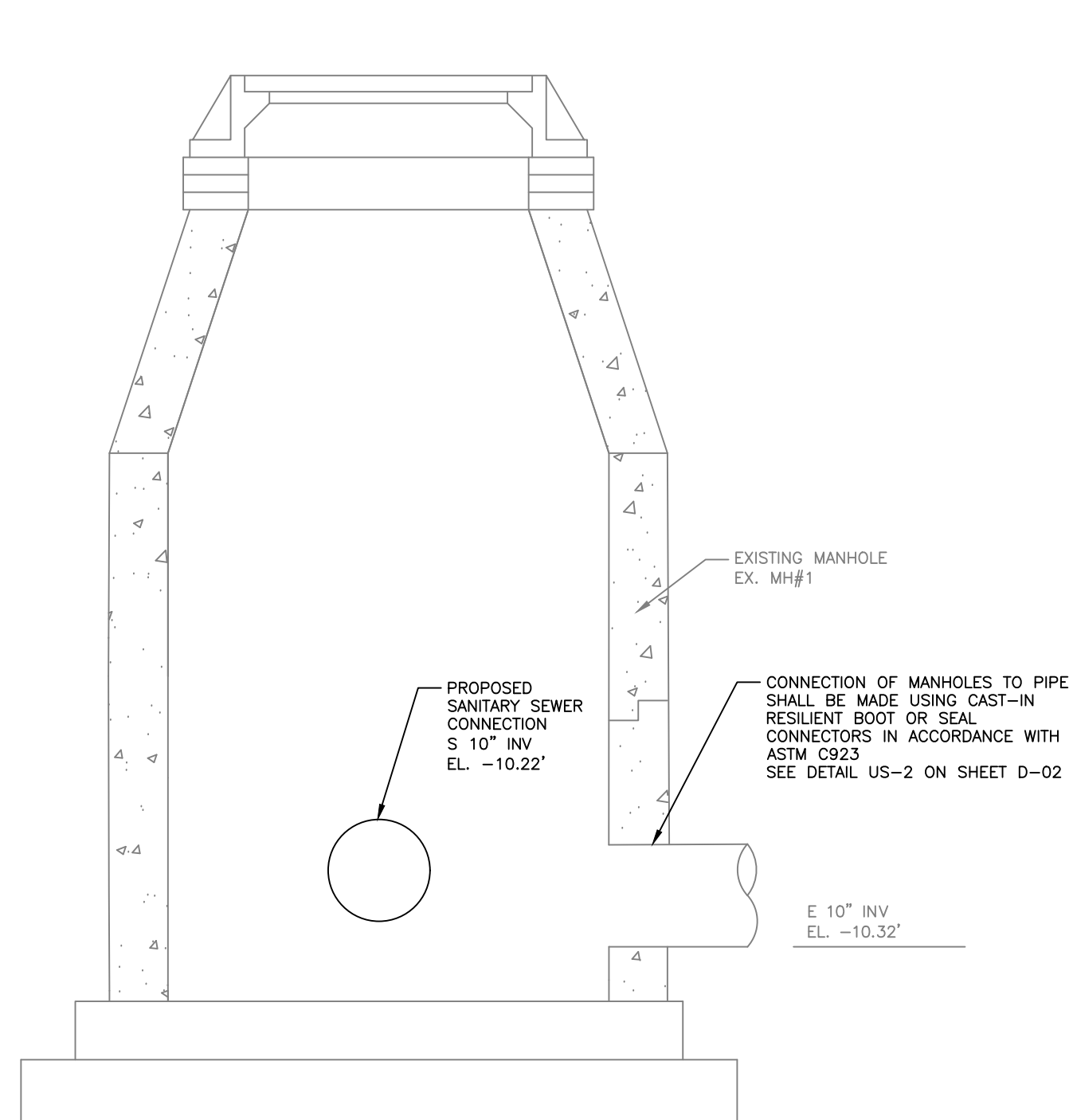
PRECAST POLYMER CONCRETE MANHOLE - MH #1

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



CUT IN MANHOLE - CUT IN MH #01

N.T.S. SHEET C-07



GROUNDWATER / DEWATERING NOTE:
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Kimley»Horn

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Manatee County
 FLORIDA

BRADENTON BEACH GRAVITY REPLACEMENT

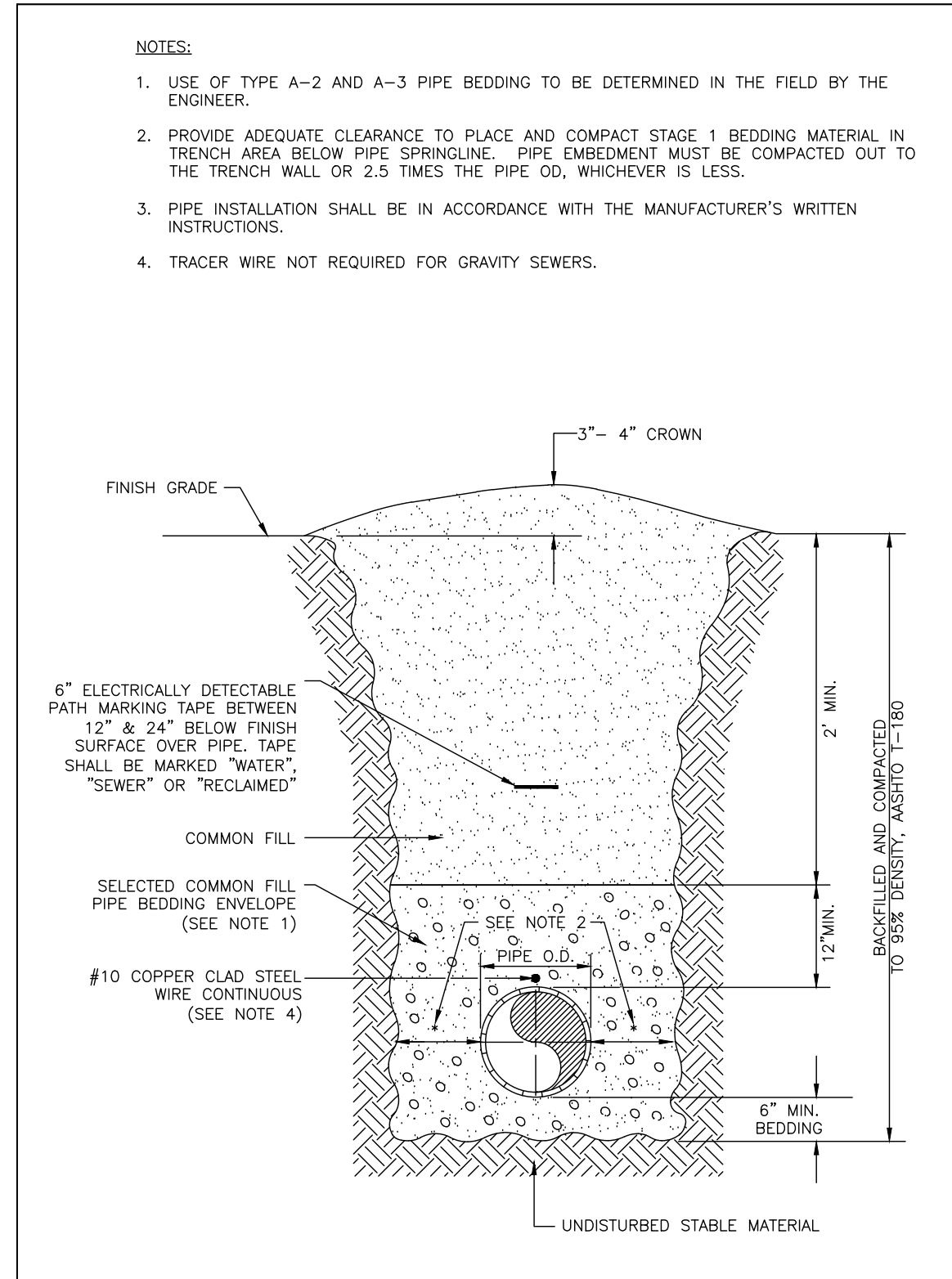
MANATEE COUNTY

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

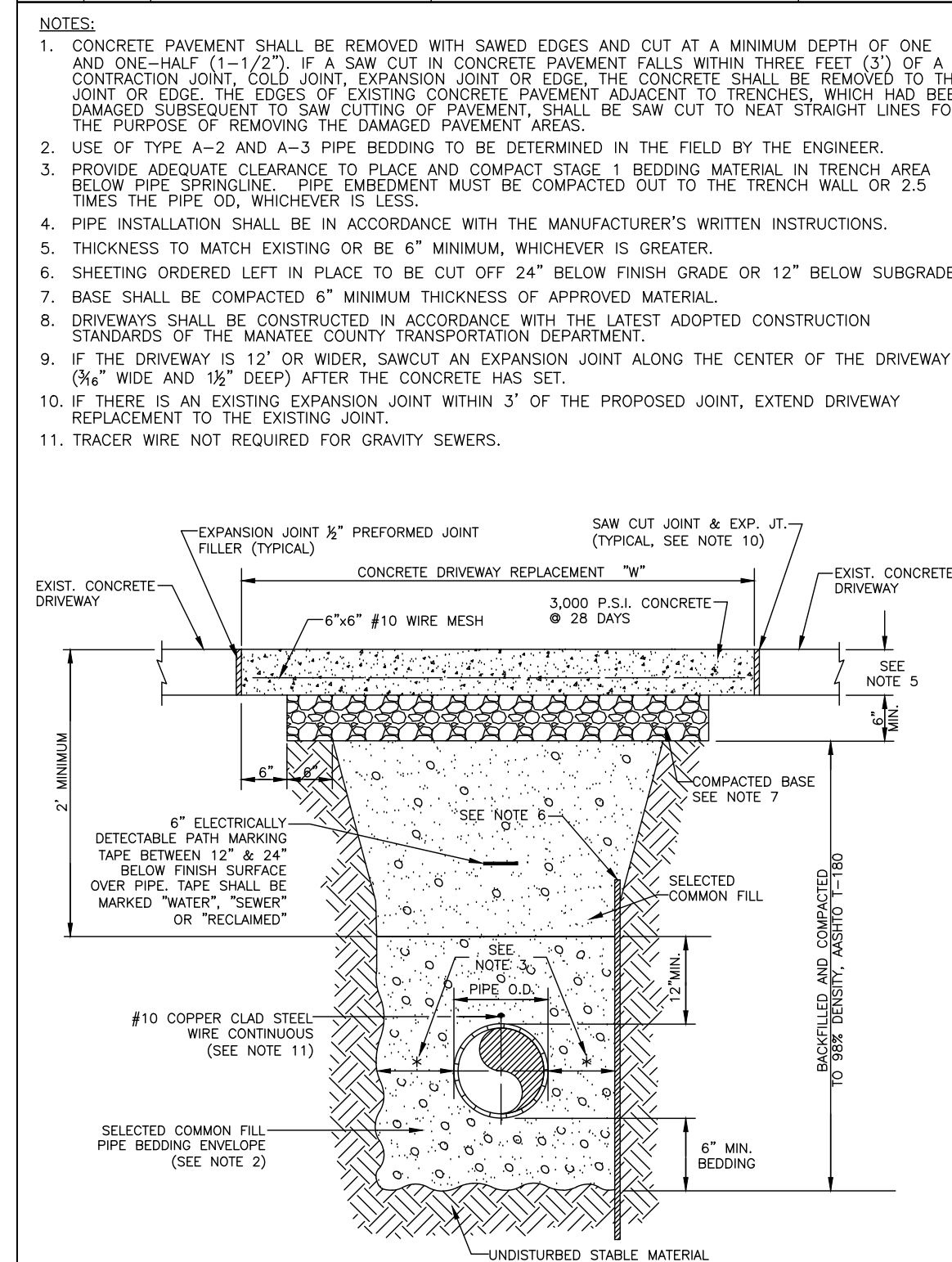
MANHOLE DETAILS

SHEET NUMBER
C-14

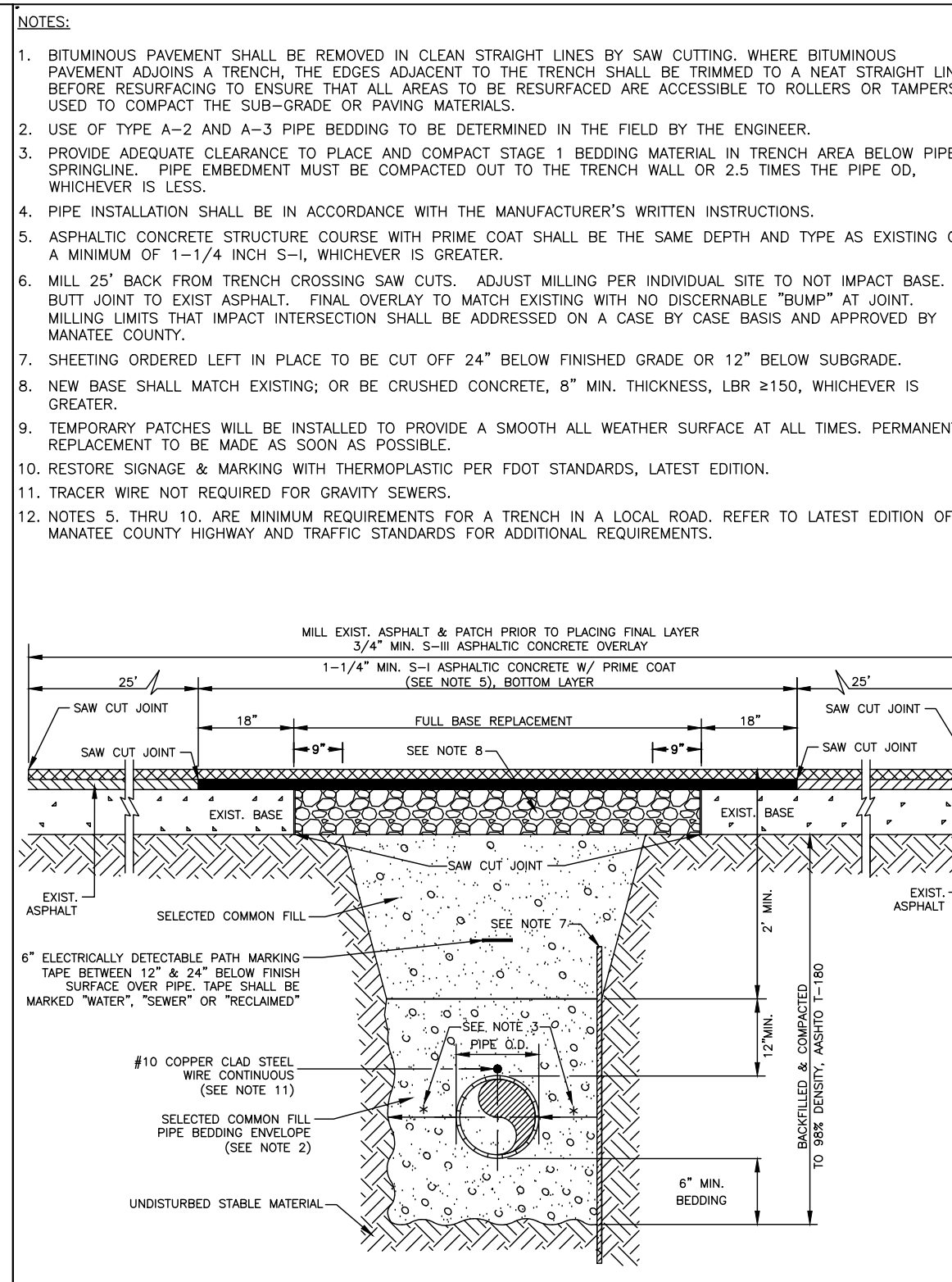
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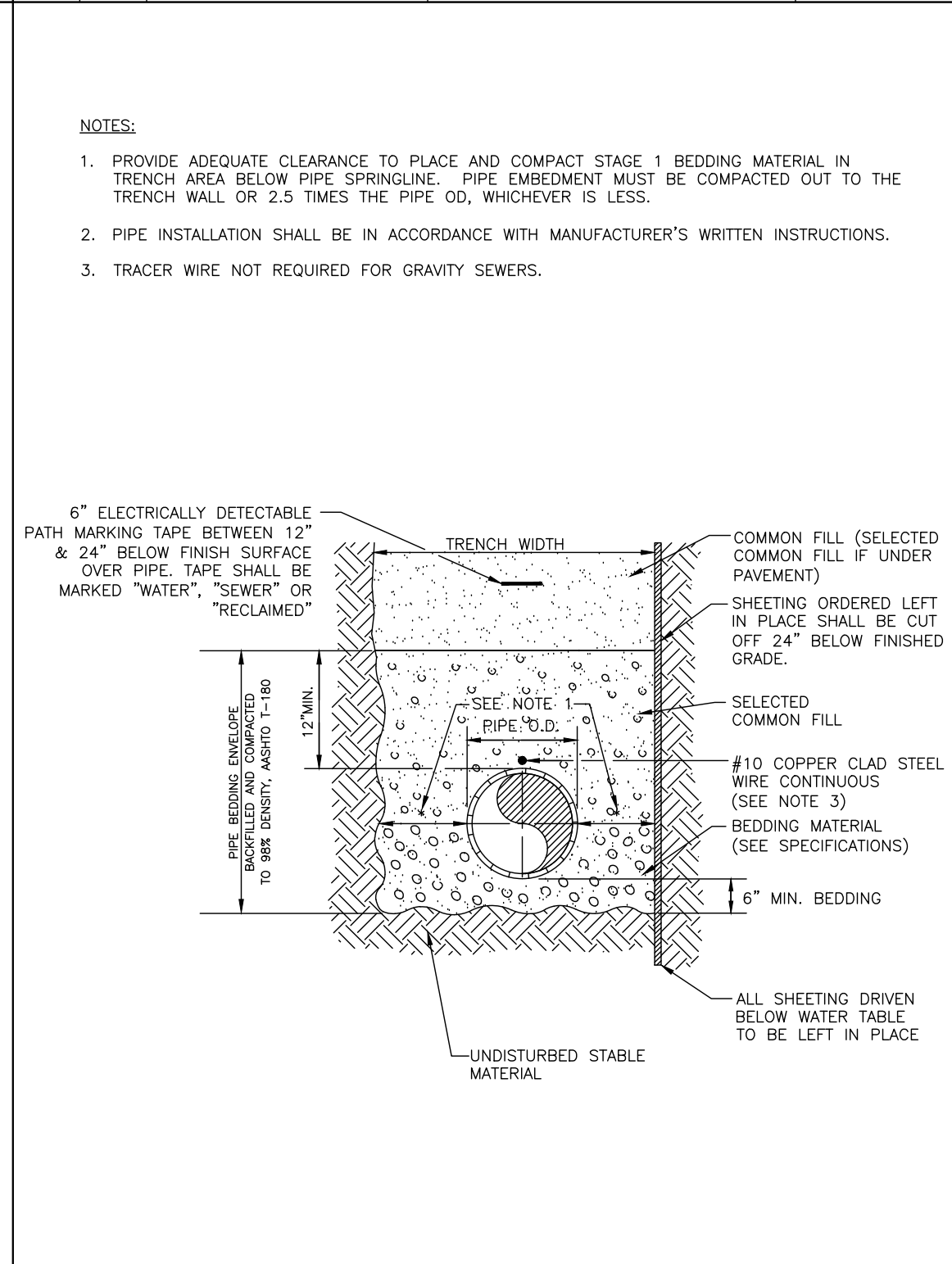
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH UNIMPROVED SURFACE TYPE A-1 PIPE BEDDING	UG-11
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		



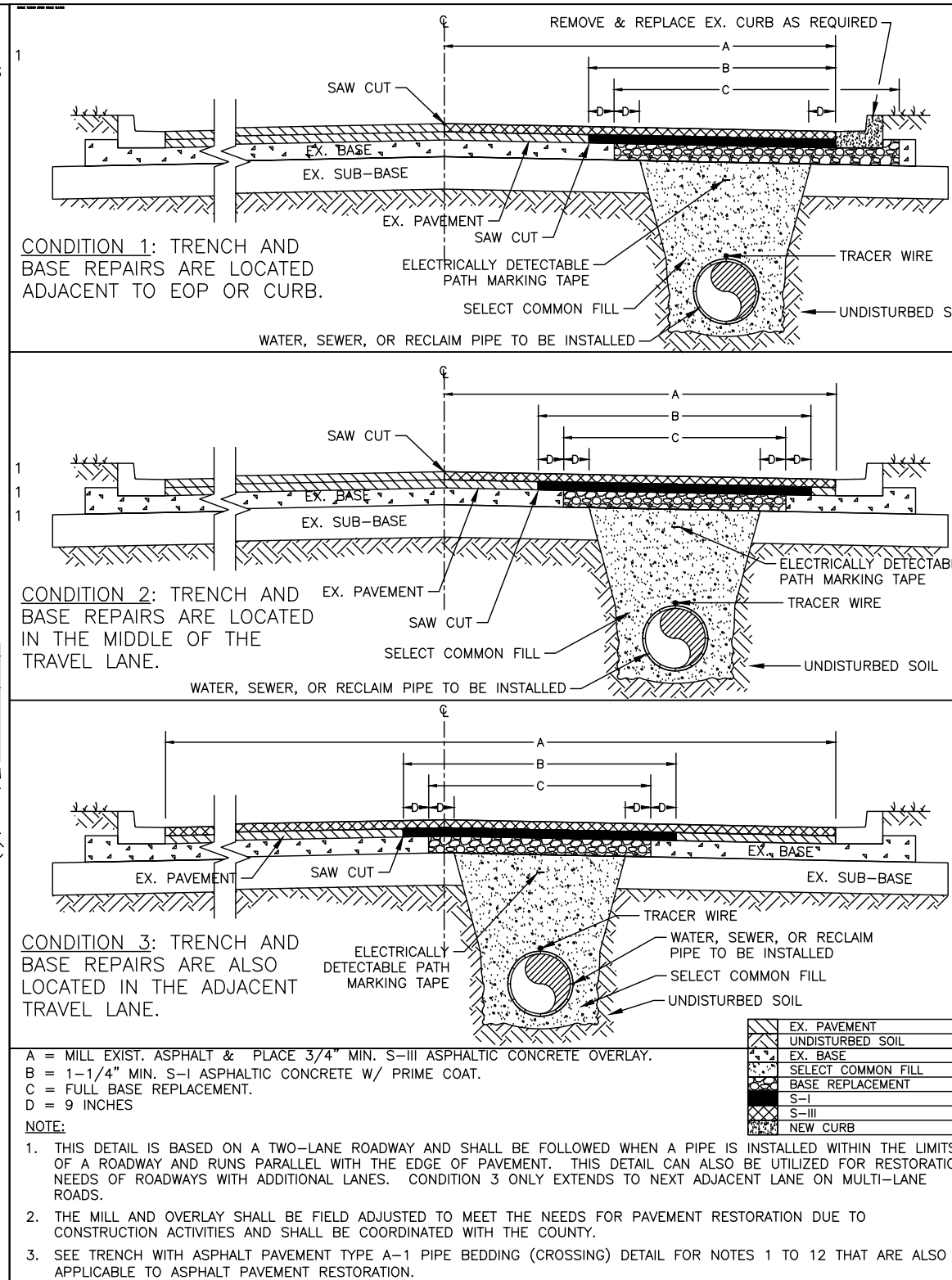
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REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		



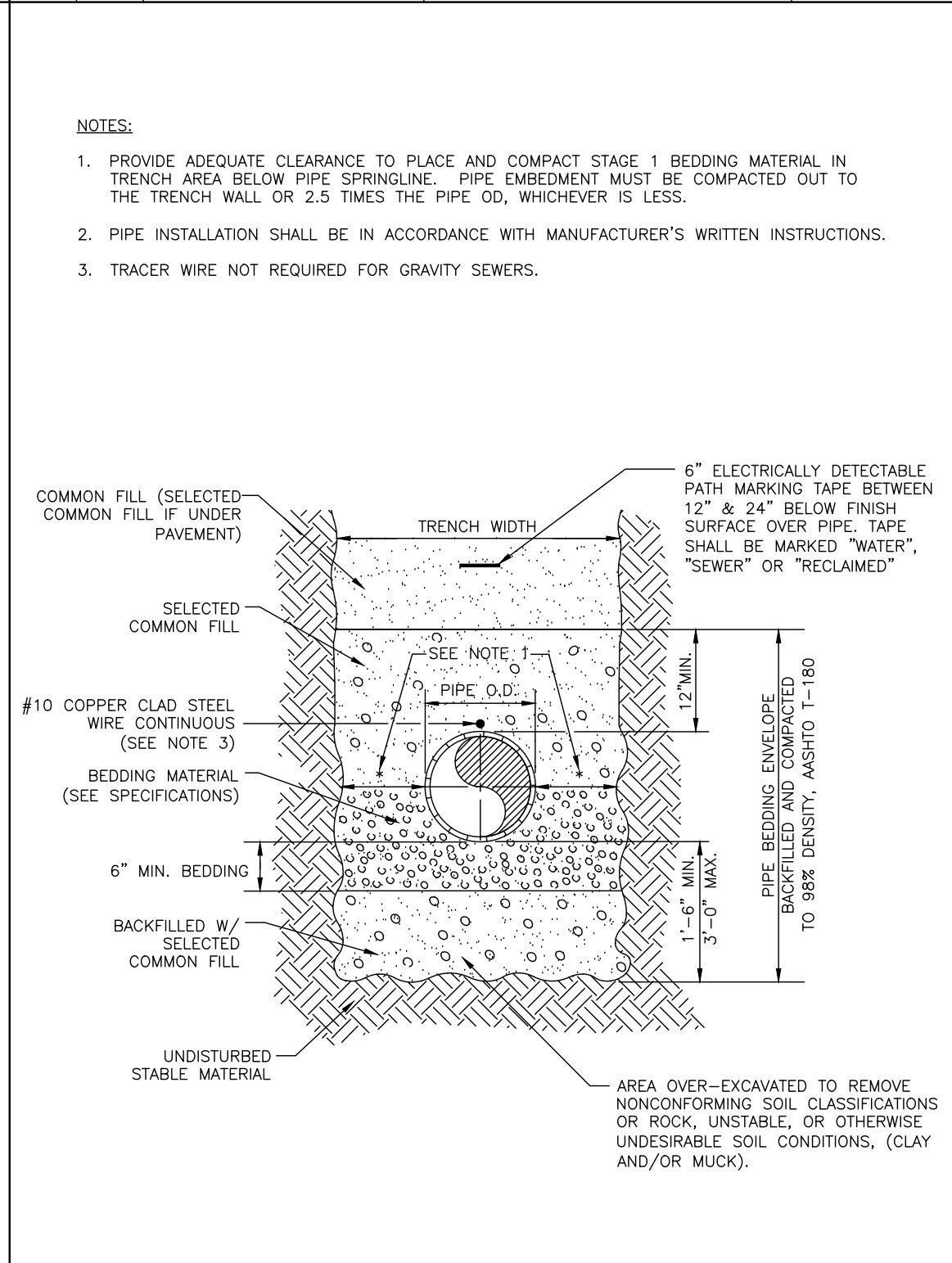
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH CONCRETE PAVEMENT SURFACE TYPE A-1 PIPE BEDDING	UG-13
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		



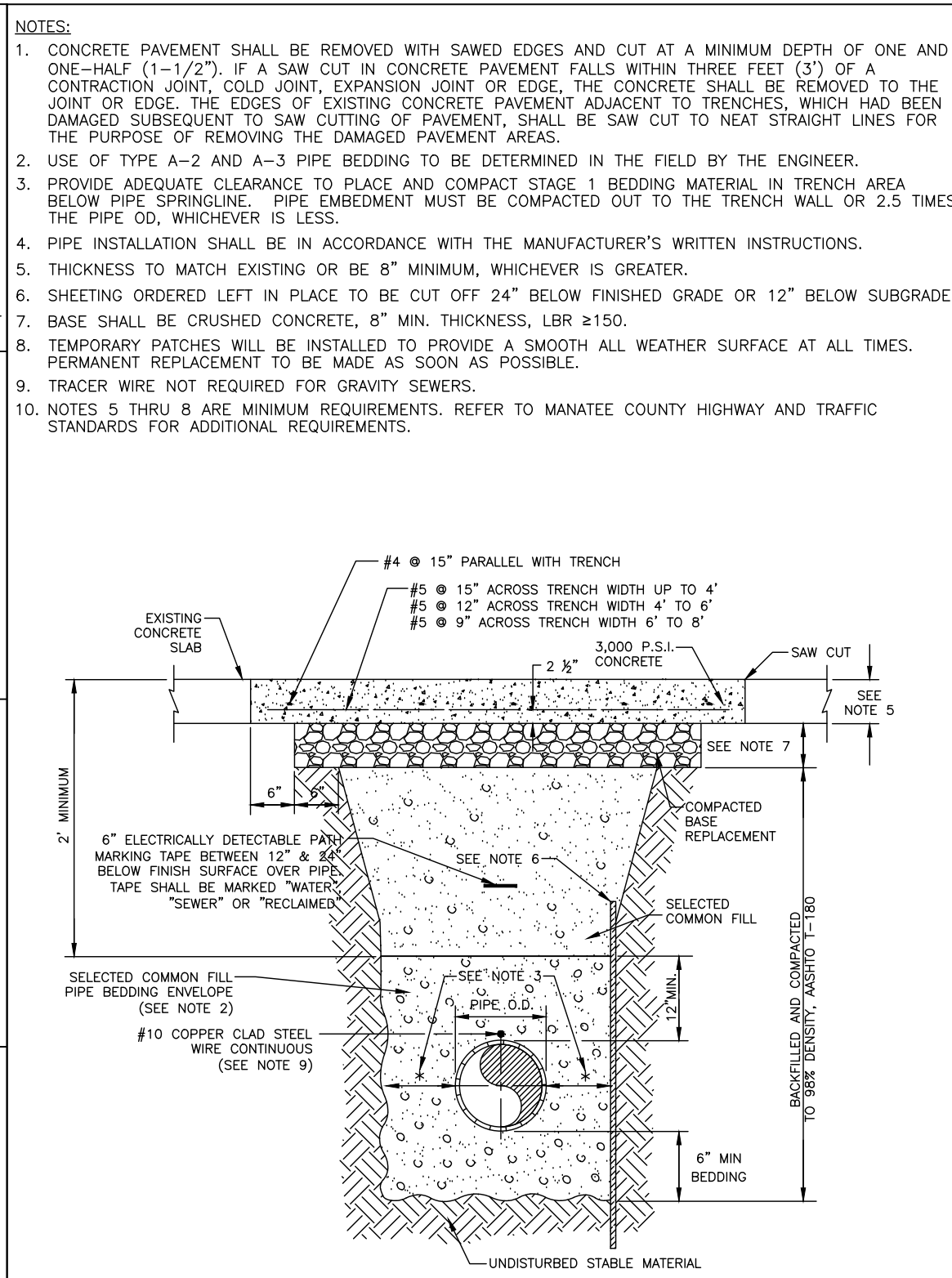
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REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		



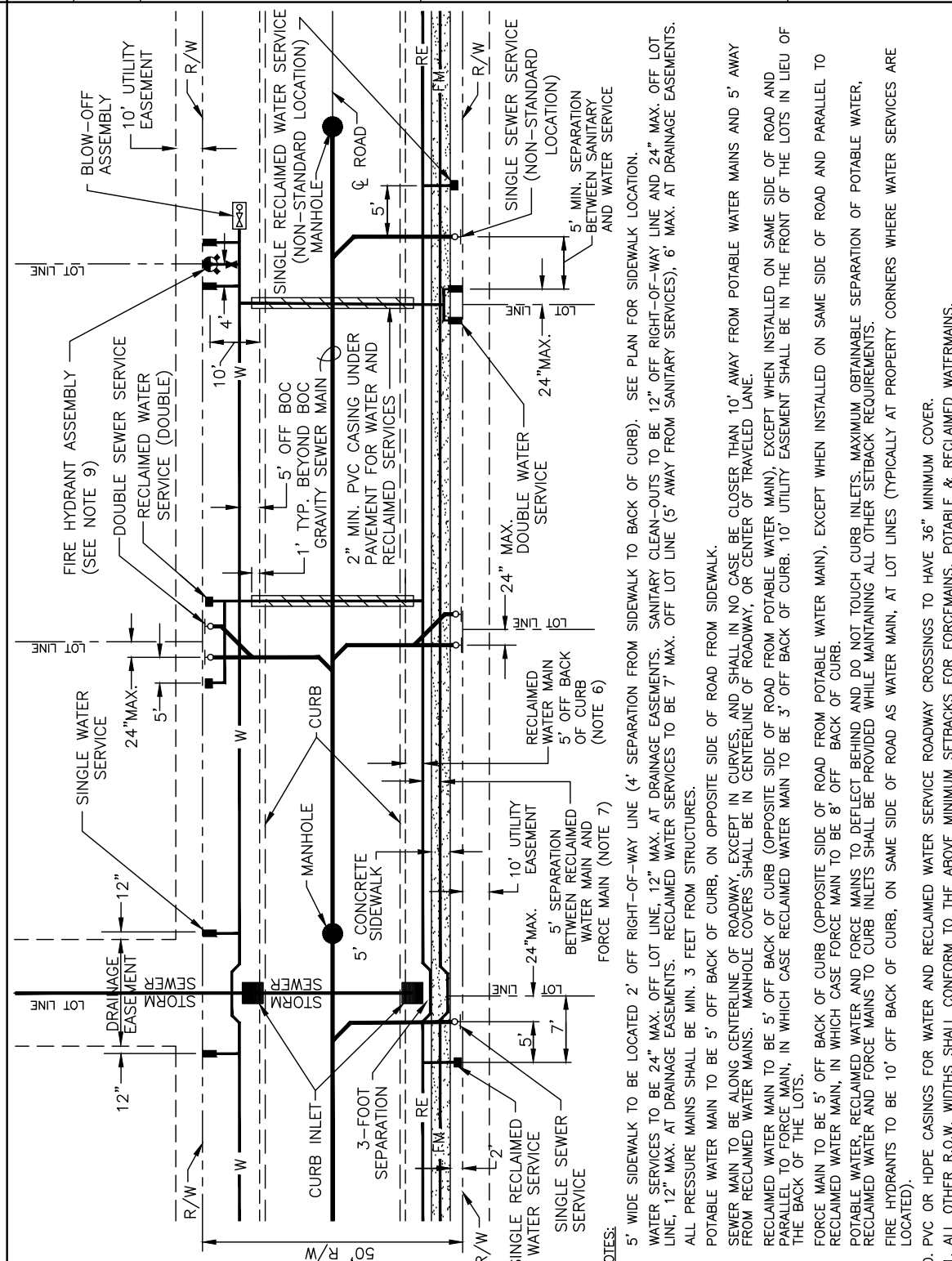
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH TYPE A-3 PIPE BEDDING	UG-16
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		



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 CONCRETE PAVEMENT SURFACE TYPE A-1 PIPE BEDDING	UG-13
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH TYPE A-1 PIPE BEDDING	UG-12B
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH CONCRETE PAVEMENT SURFACE TYPE A-1 PIPE BEDDING	UG-13
REV. BY	DATE		
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Kimley-Horn

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

Manatee County

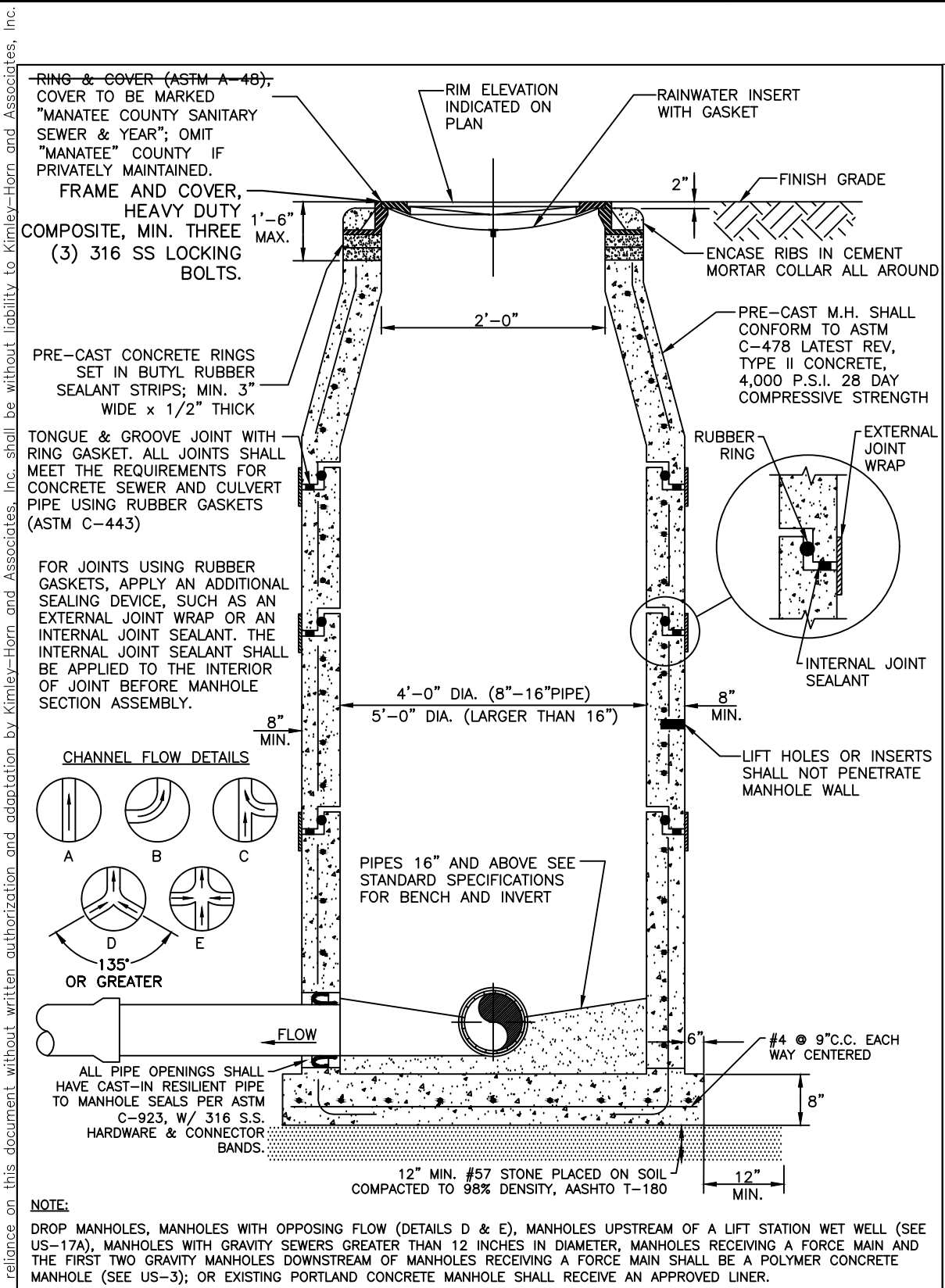
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MANATEE COUNTY

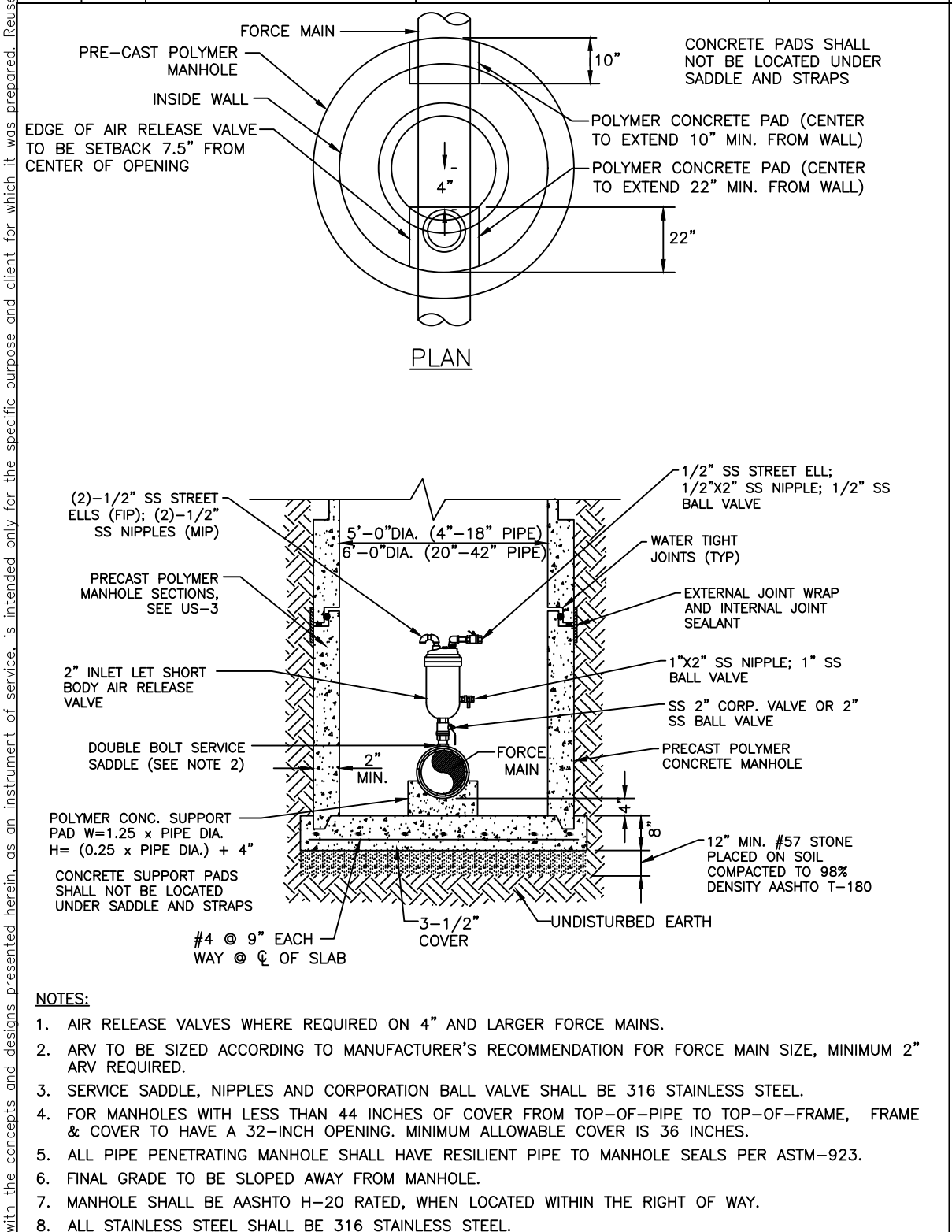
LICENSED PROFESSIONAL	MICHAEL A. SEMAGO, P.E.
FL LICENSE NUMBER	87501

DETAILS

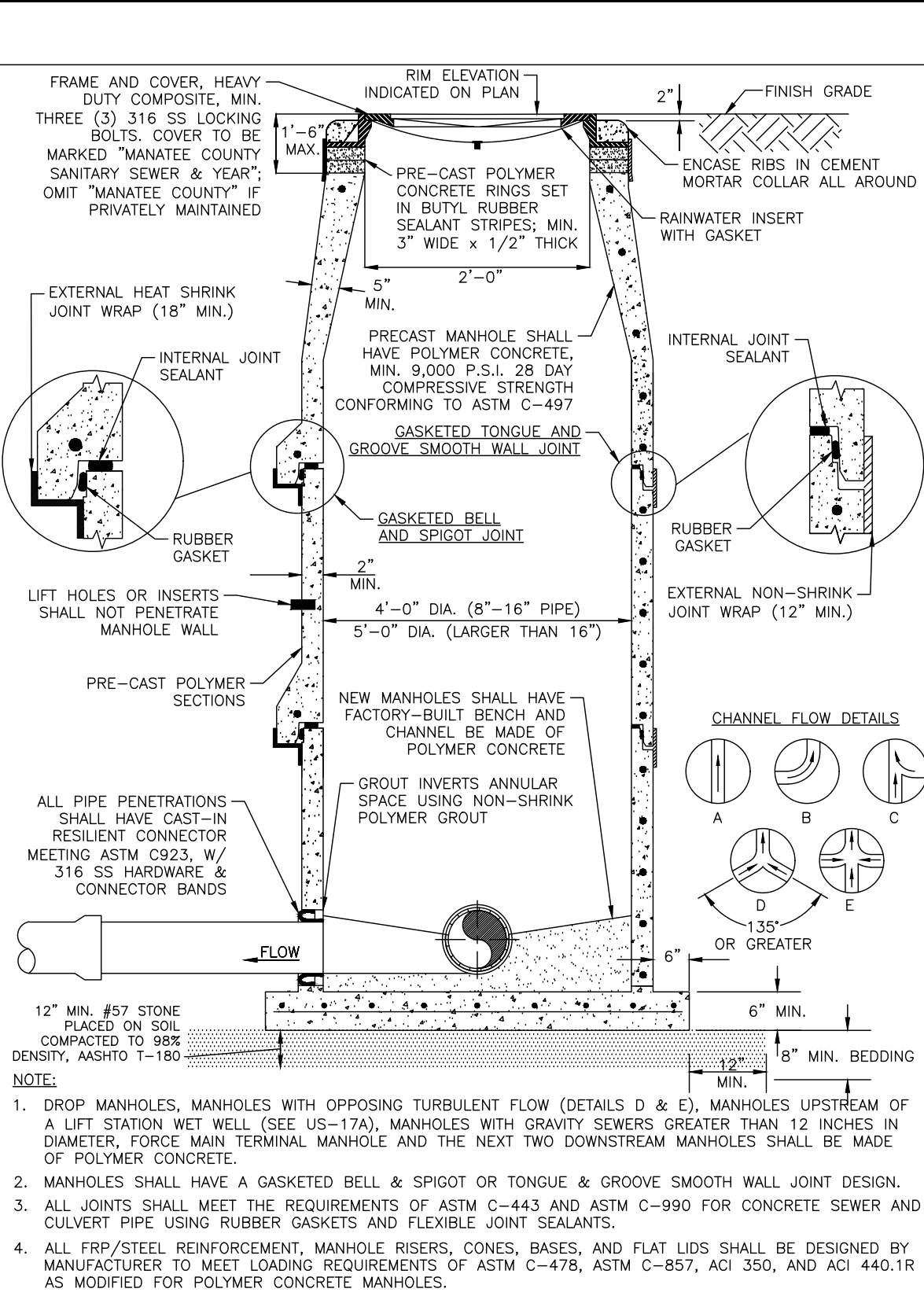
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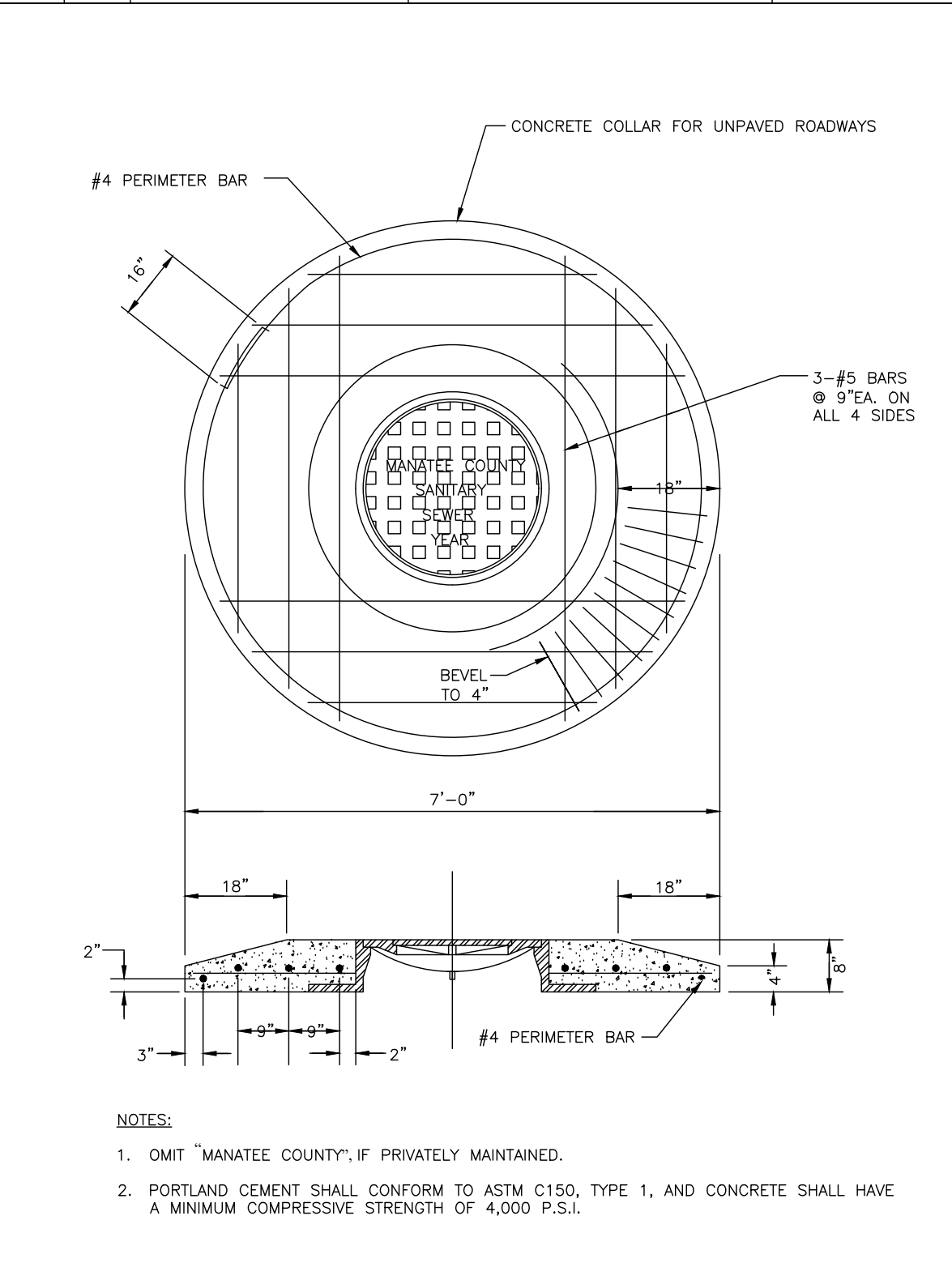
MANATEE COUNTY PUBLIC WORKS DEPARTMENT	STANDARD PRE-CAST SANITARY SEWER MANHOLE FOR UNDISTURBED FLOW	US-2
REV. BY DATE	February 25, 2020 DATE OF APPROVAL	



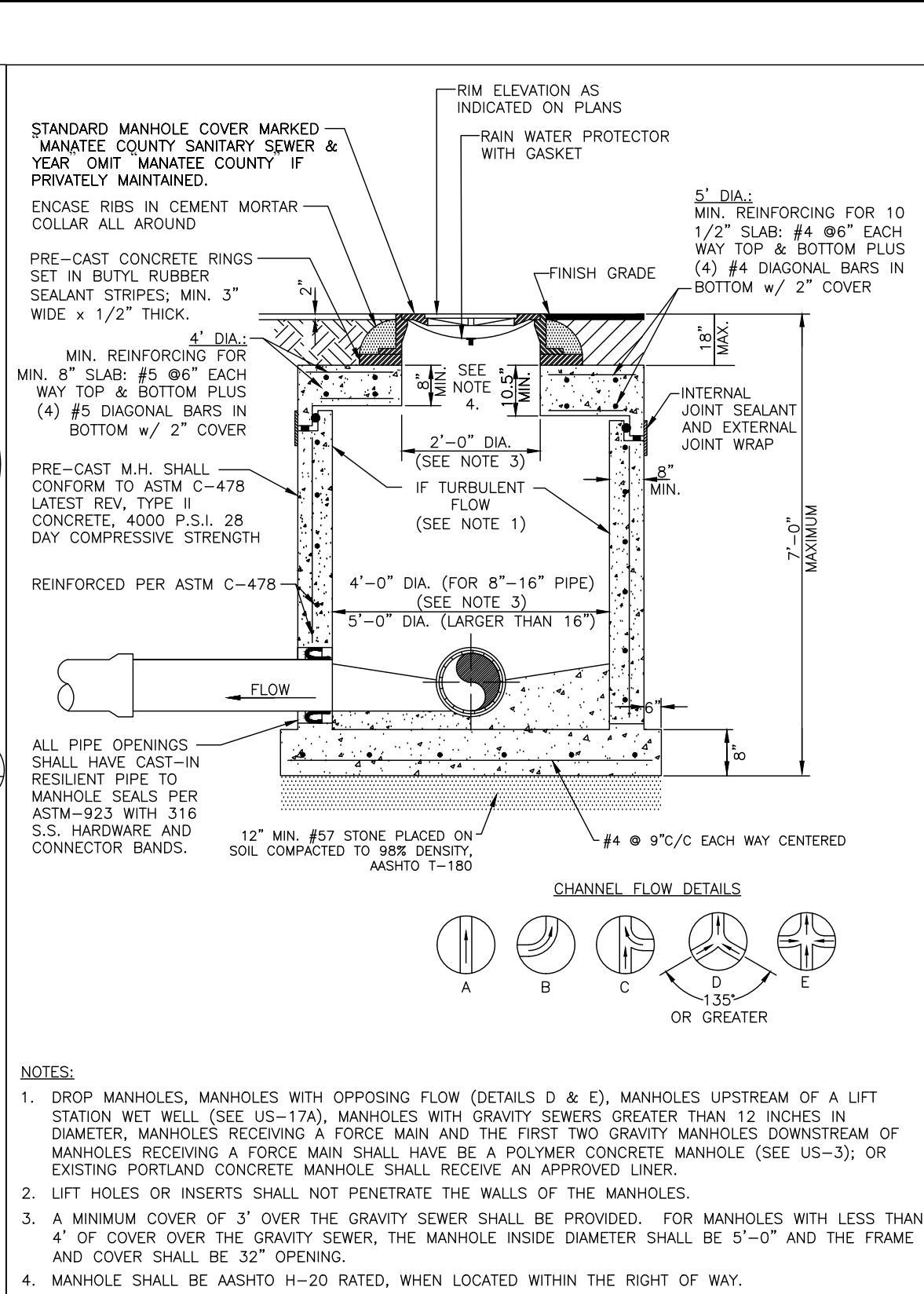
MANATEE COUNTY PUBLIC WORKS DEPARTMENT	BELOW GRADE AIR RELEASE VALVE FOR FORCE MAINS	US-8
REV. BY DATE	February 25, 2020 DATE OF APPROVAL	



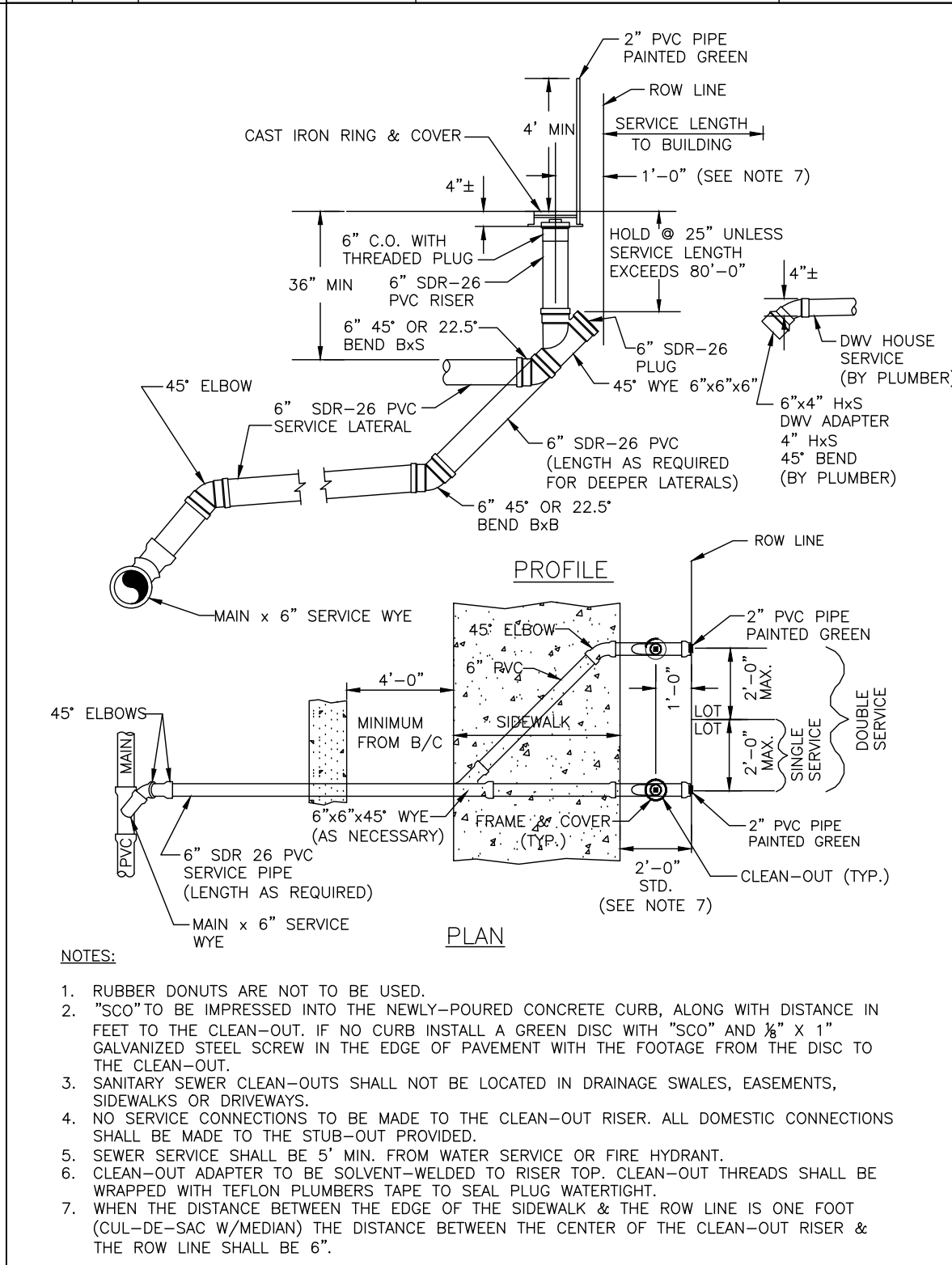
MANATEE COUNTY PUBLIC WORKS DEPARTMENT	STANDARD PRE-CAST POLYMER CONCRETE SANITARY SEWER MANHOLE FOR TURBULENT FLOW	US-3
REV. BY DATE	February 25, 2020 DATE OF APPROVAL	



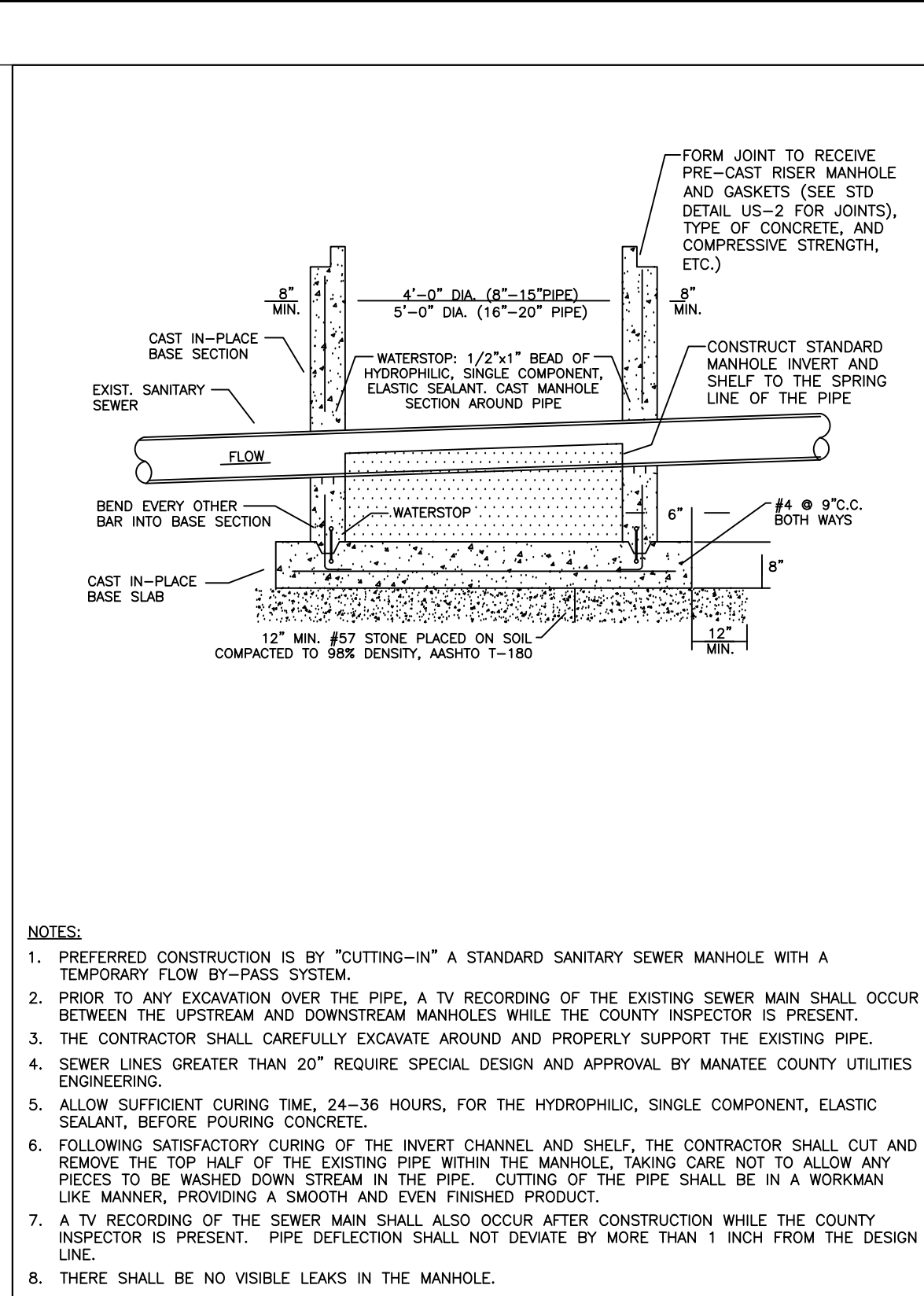
MANATEE COUNTY PUBLIC WORKS DEPARTMENT	MANHOLE COVER & CONCRETE COLLAR FOR UNPAVED ROADWAYS	US-10
REV. BY DATE	February 25, 2020 DATE OF APPROVAL	



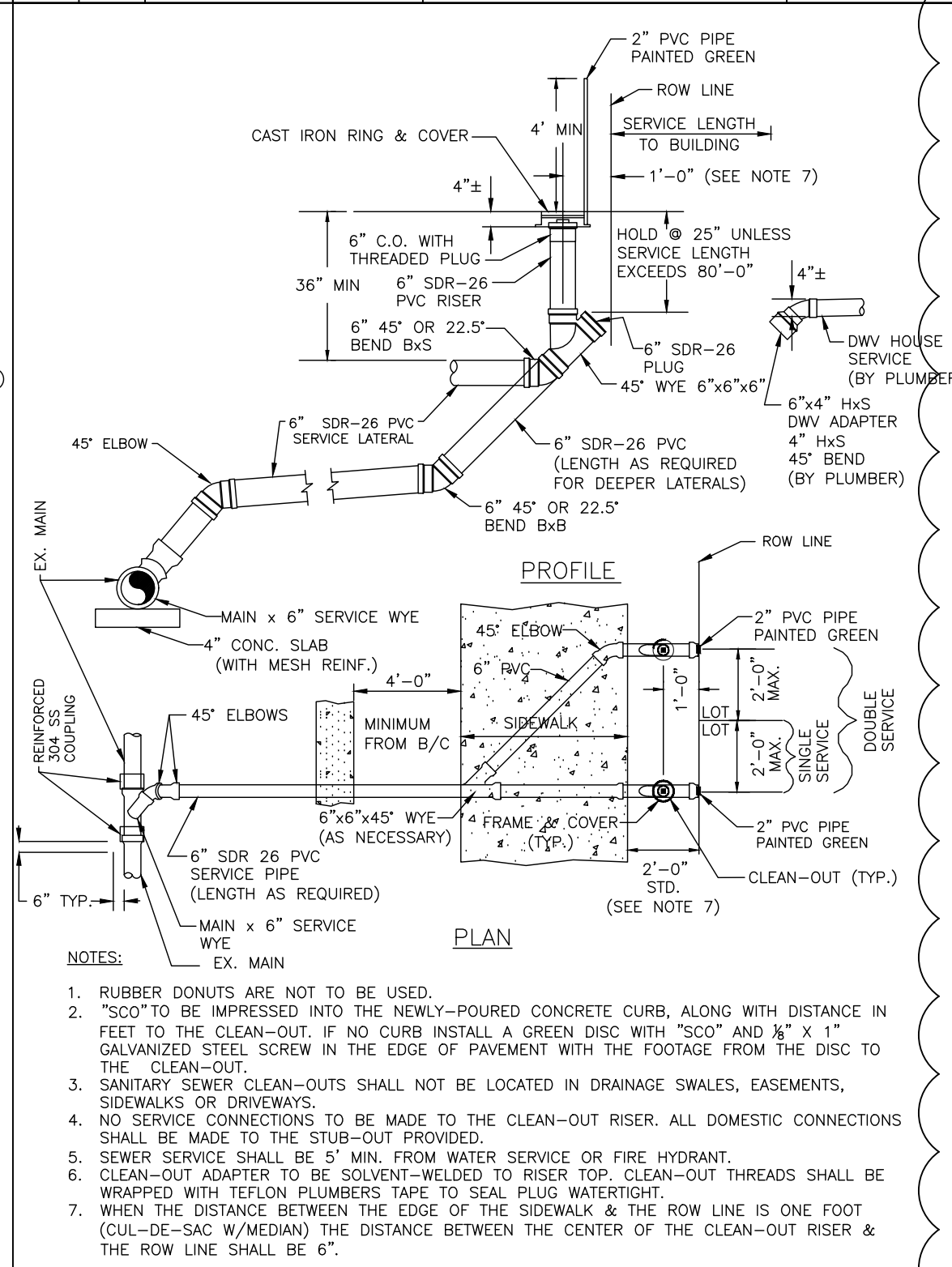
MANATEE COUNTY PUBLIC WORKS DEPARTMENT	STANDARD PRE-CAST PORTLAND CEMENT SHALLOW MANHOLE	US-4
REV. BY DATE	February 25, 2020 DATE OF APPROVAL	



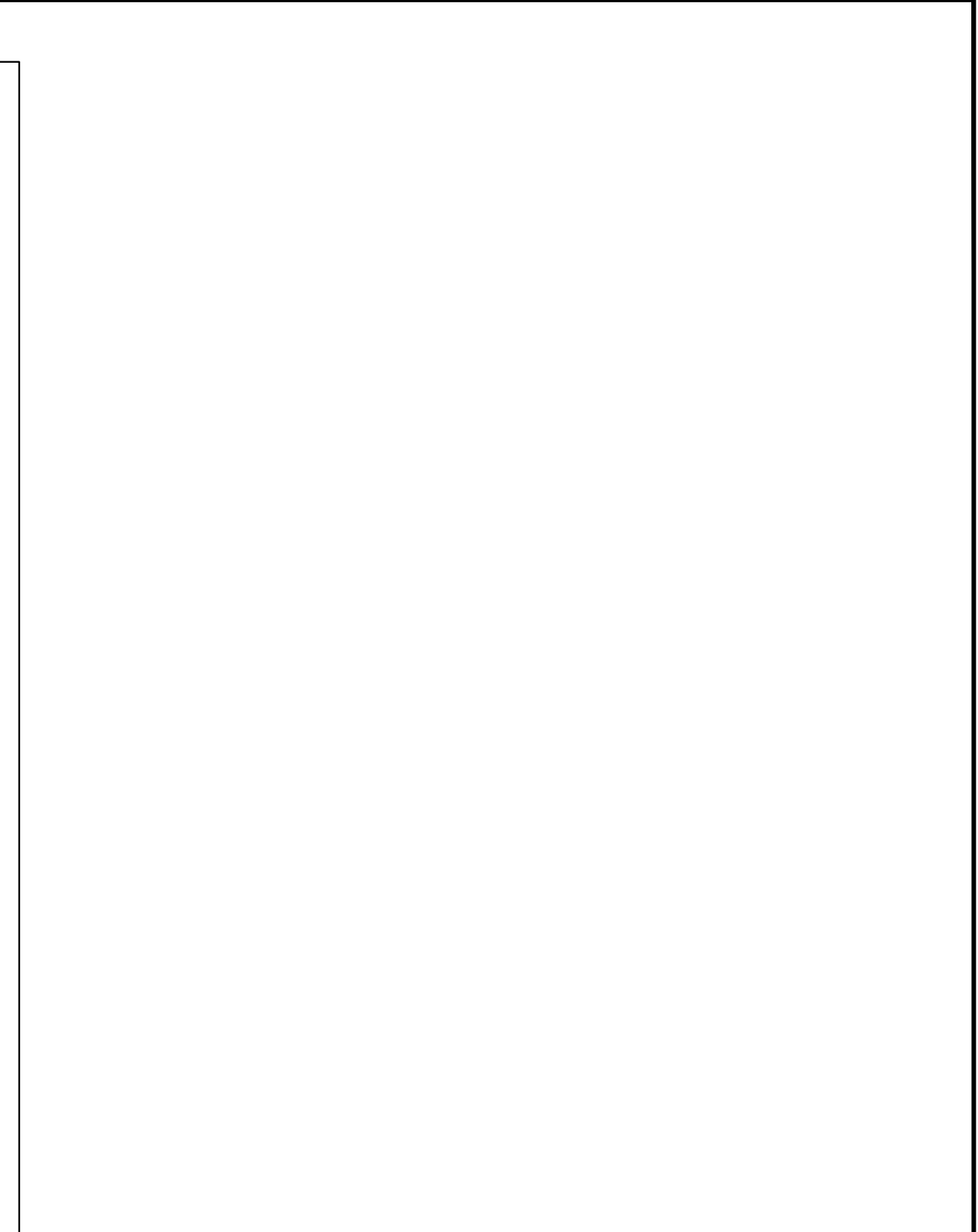
MANATEE COUNTY PUBLIC WORKS DEPARTMENT	SINGLE AND DOUBLE SERVICE CONNECTION	US-13A
REV. BY DATE	February 25, 2020 DATE OF APPROVAL	



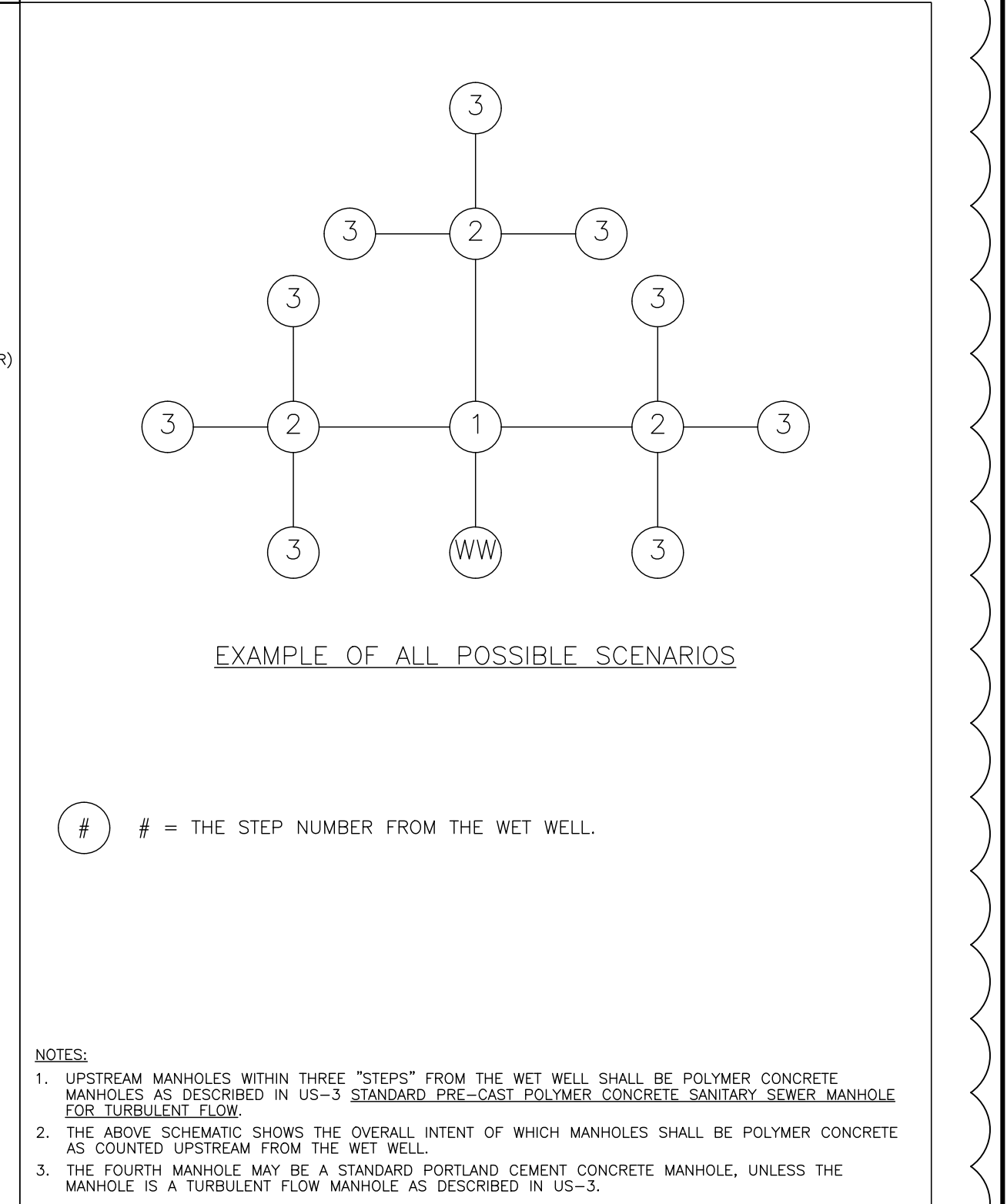
MANATEE COUNTY PUBLIC WORKS DEPARTMENT	CUT-IN SINGLE AND DOUBLE SERVICE WYES	US-13B
REV. BY DATE	February 25, 2020 DATE OF APPROVAL	



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	EXAMPLE OF ALL POSSIBLE SCENARIOS	
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MANATEE COUNTY PUBLIC WORKS DEPARTMENT	EXAMPLE OF ALL POSSIBLE SCENARIOS	
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ADDENDUM #3	7/16/2021	MAS
REVISIONS	DATE	BY

Kimley»Horn

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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

LICENSED PROFESSIONAL

MICHAEL A. SEMAGO, P.E.

FL LICENSE NUMBER
87501

FL DATE:

MANATEE COUNTY
PUBLIC WORKS DEPARTMENT

BRADENTON BEACH GRAVITY
REPLACEMENT

DETAILS

SHEET NUMBER
D-02

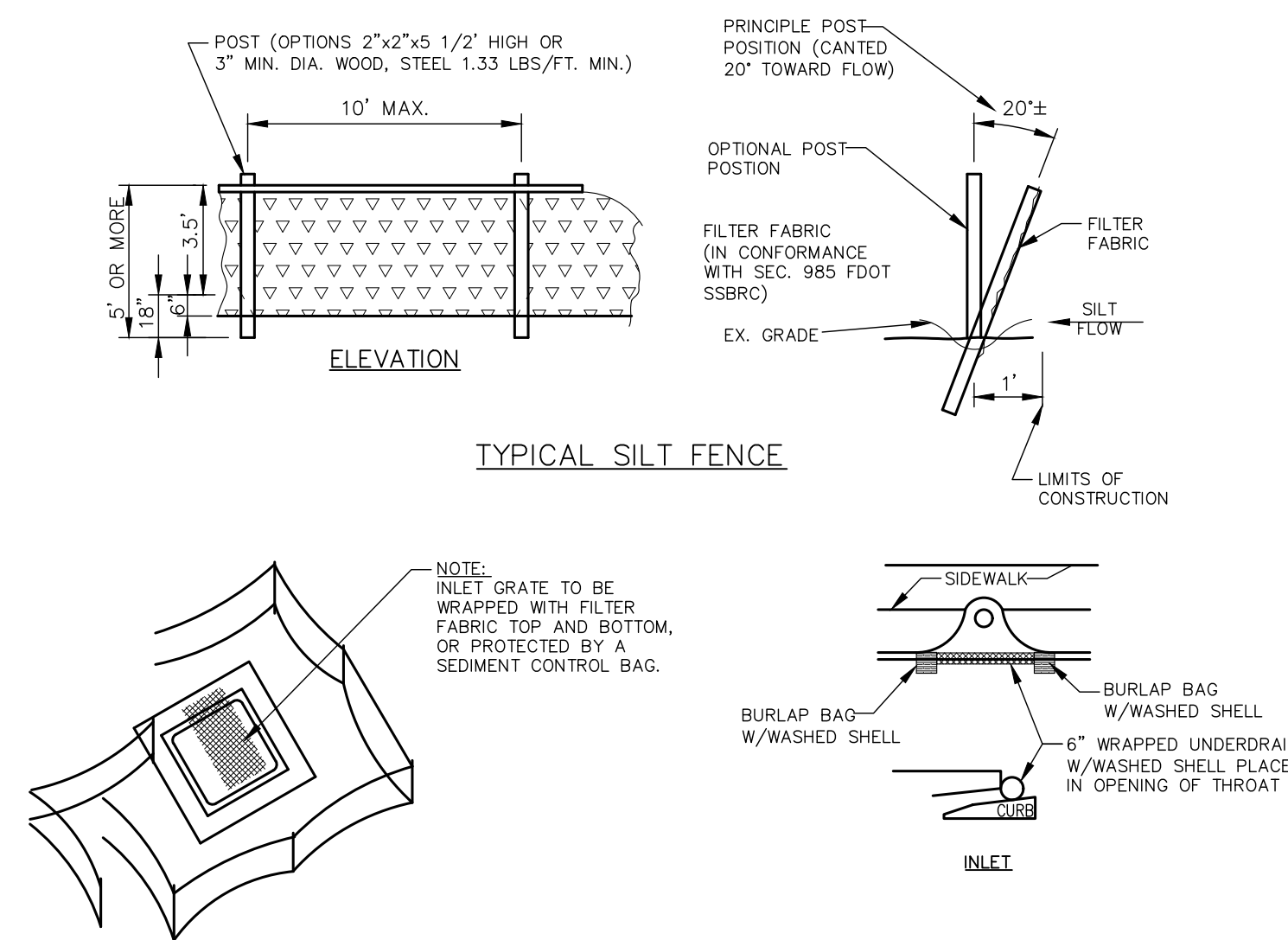
LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314

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.

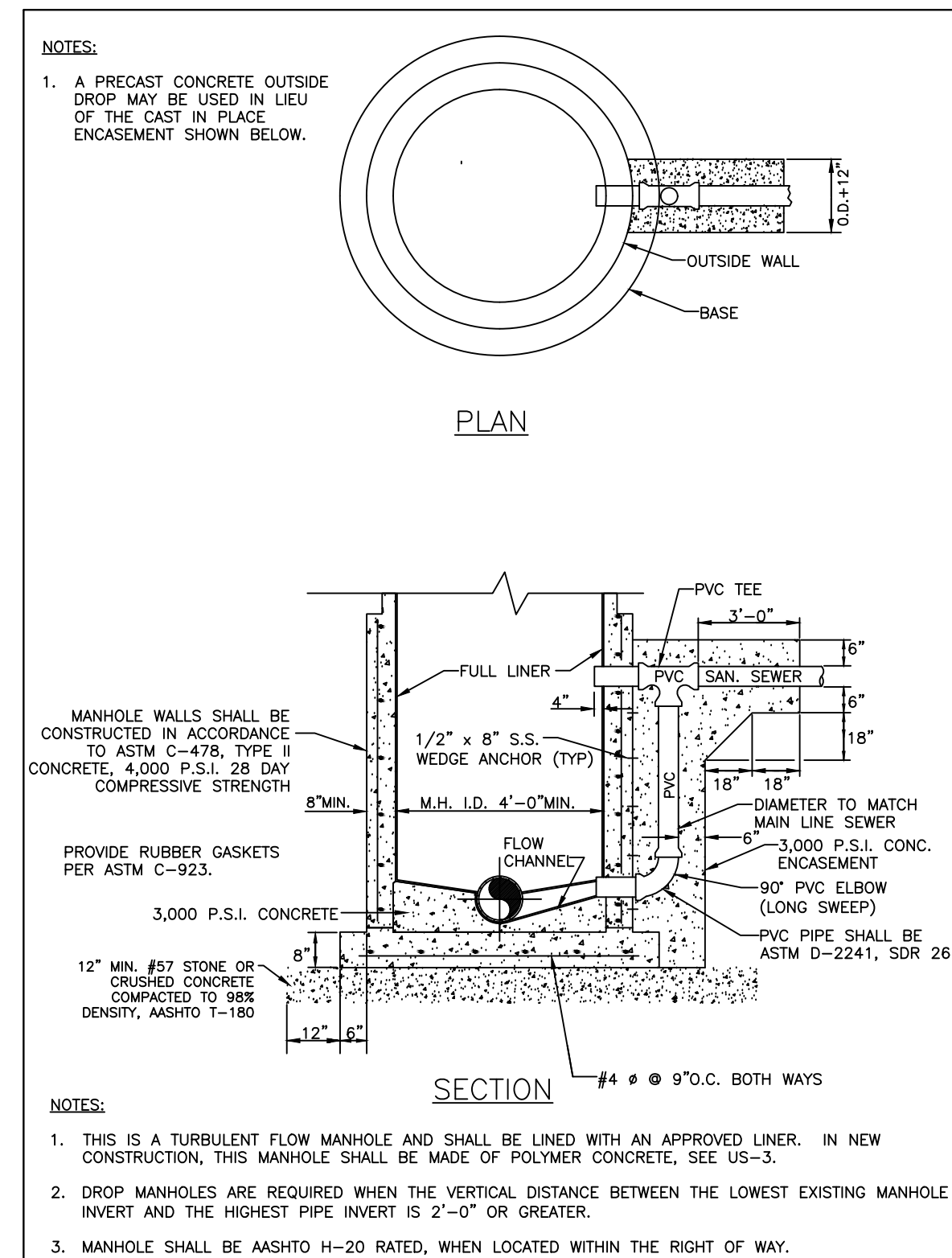
Disclaimer - This document is provided for your convenience only. Please refer to F.A.C. Rule 62-555.314 for additional construction requirements.

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

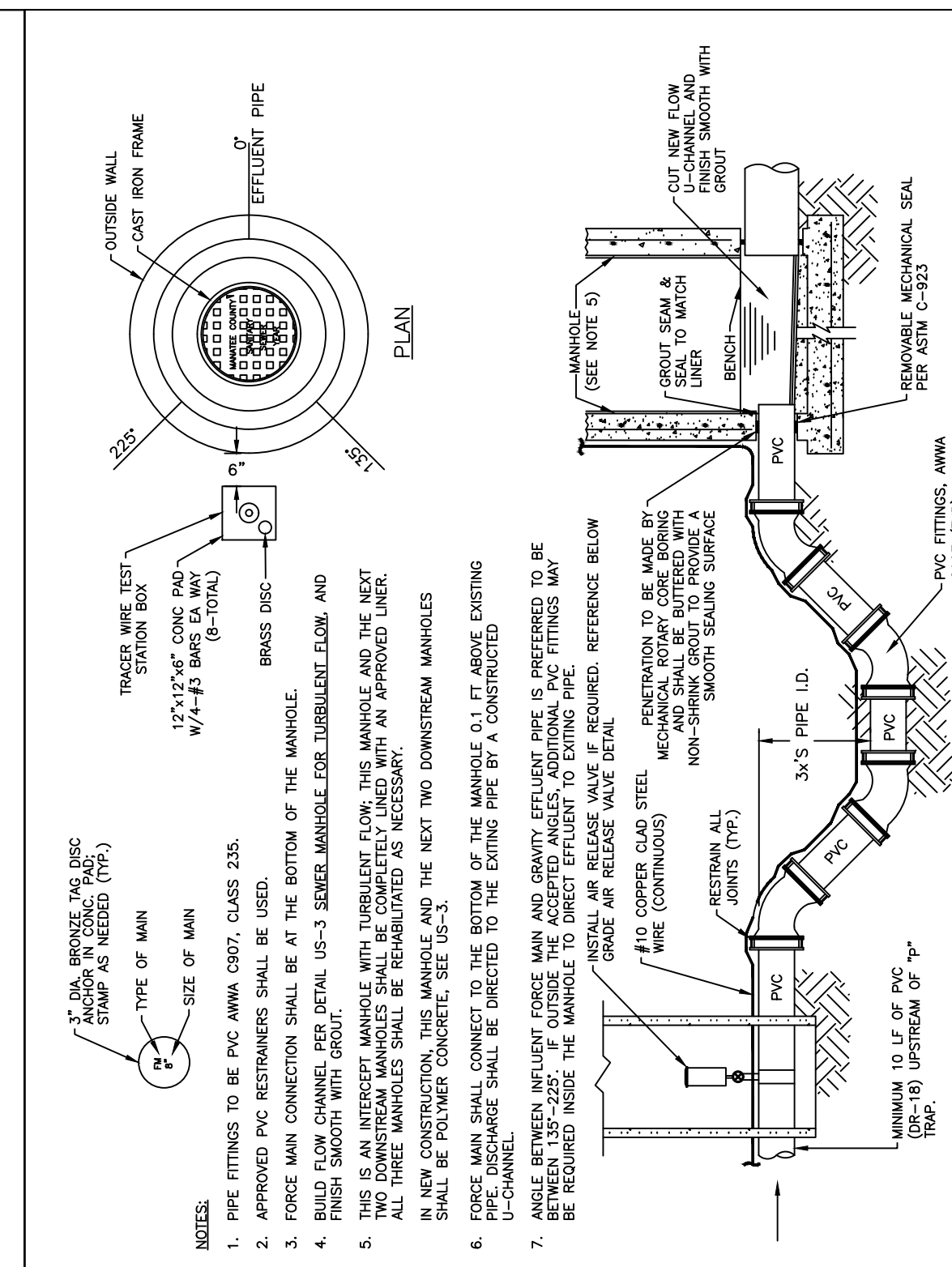


STAKED SILT BARRIER OR SILT FENCE PROTECTION AROUND INLETS PROTECTION AROUND INLETS

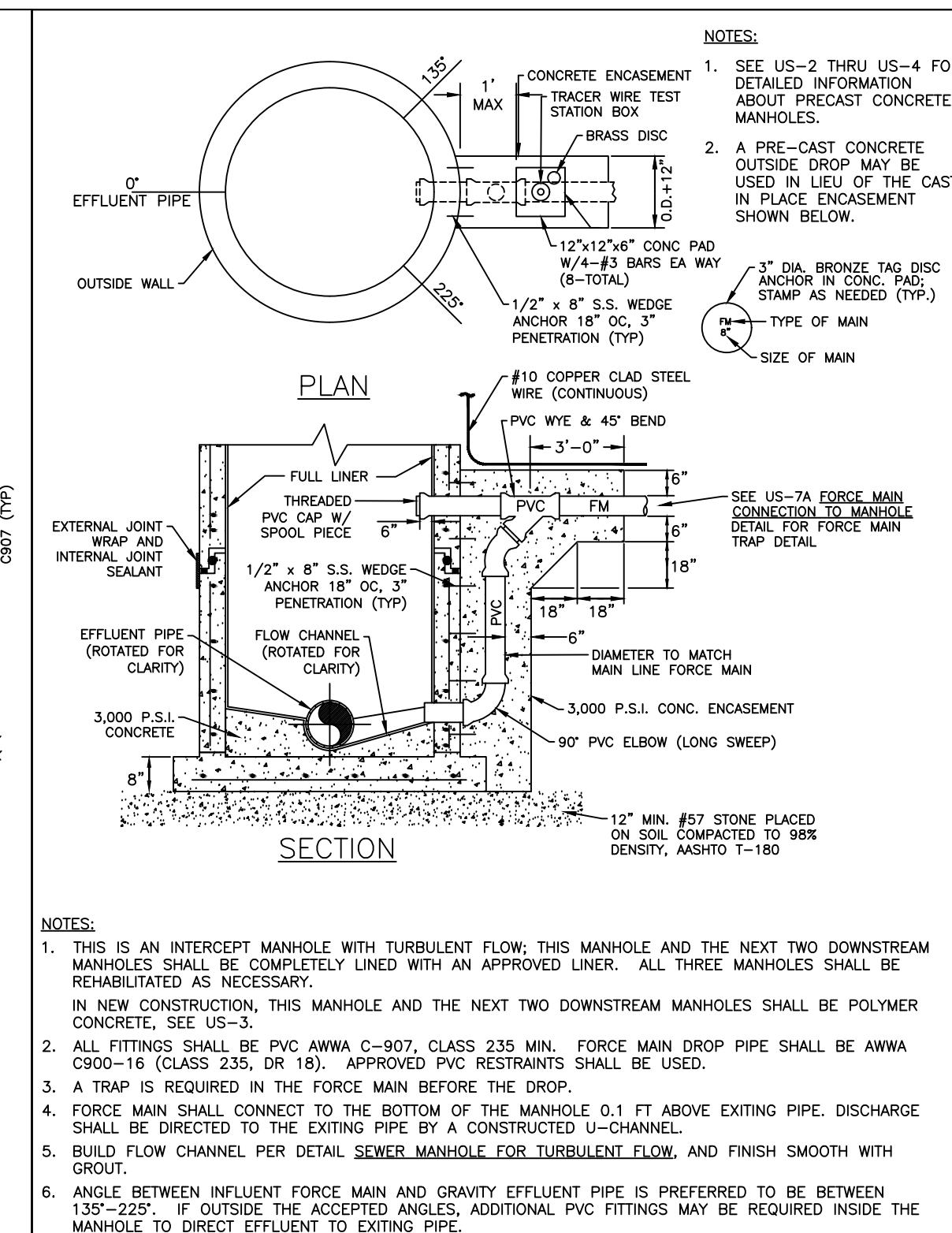
EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES
N.T.S.



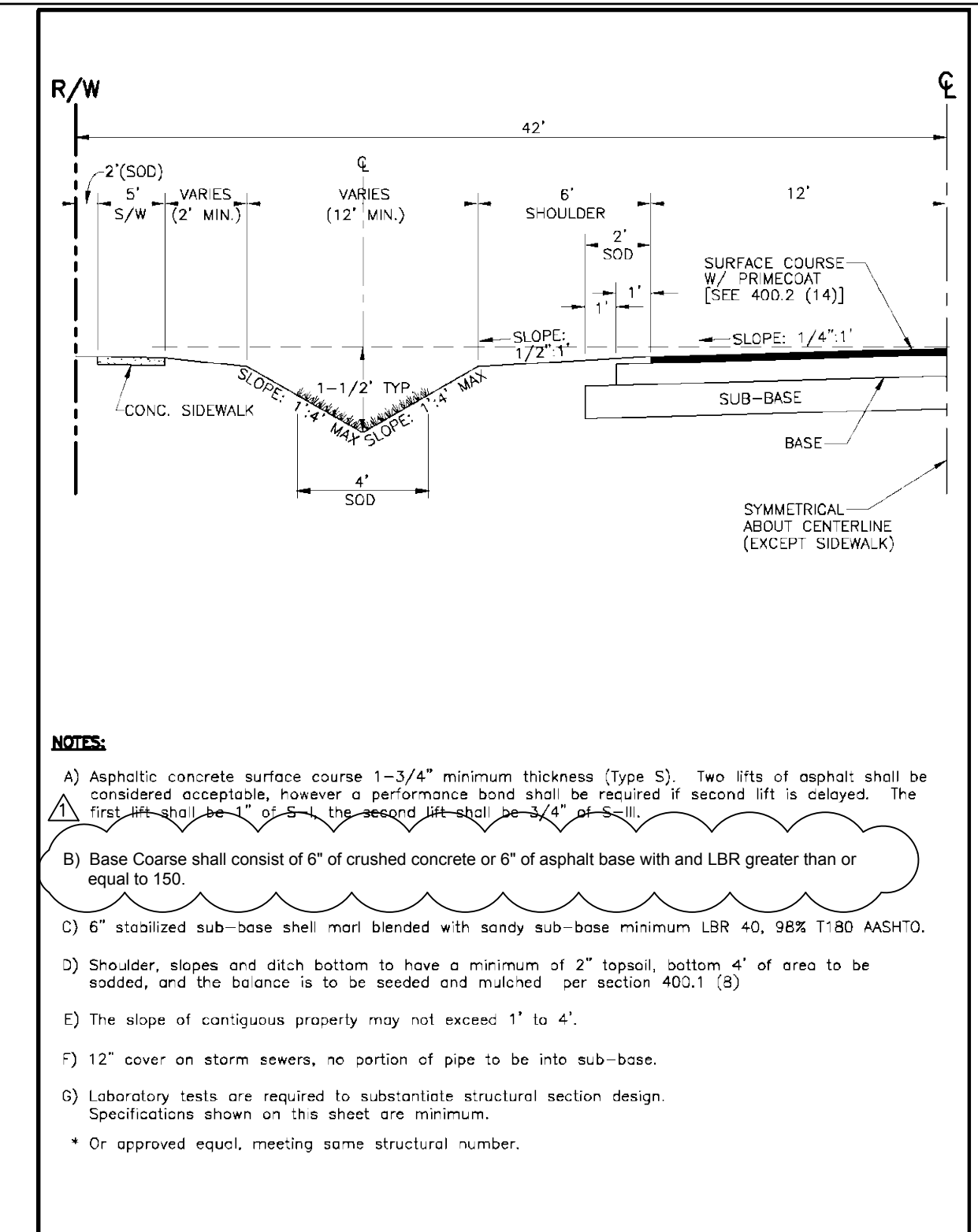
MANATEE COUNTY PUBLIC WORKS DEPARTMENT	OUTSIDE DROP CONNECTION TO EX. PORTLAND CEMENT MANHOLE	US-6
REV. BY DATE	February 25, 2020	DATE OF APPROVAL



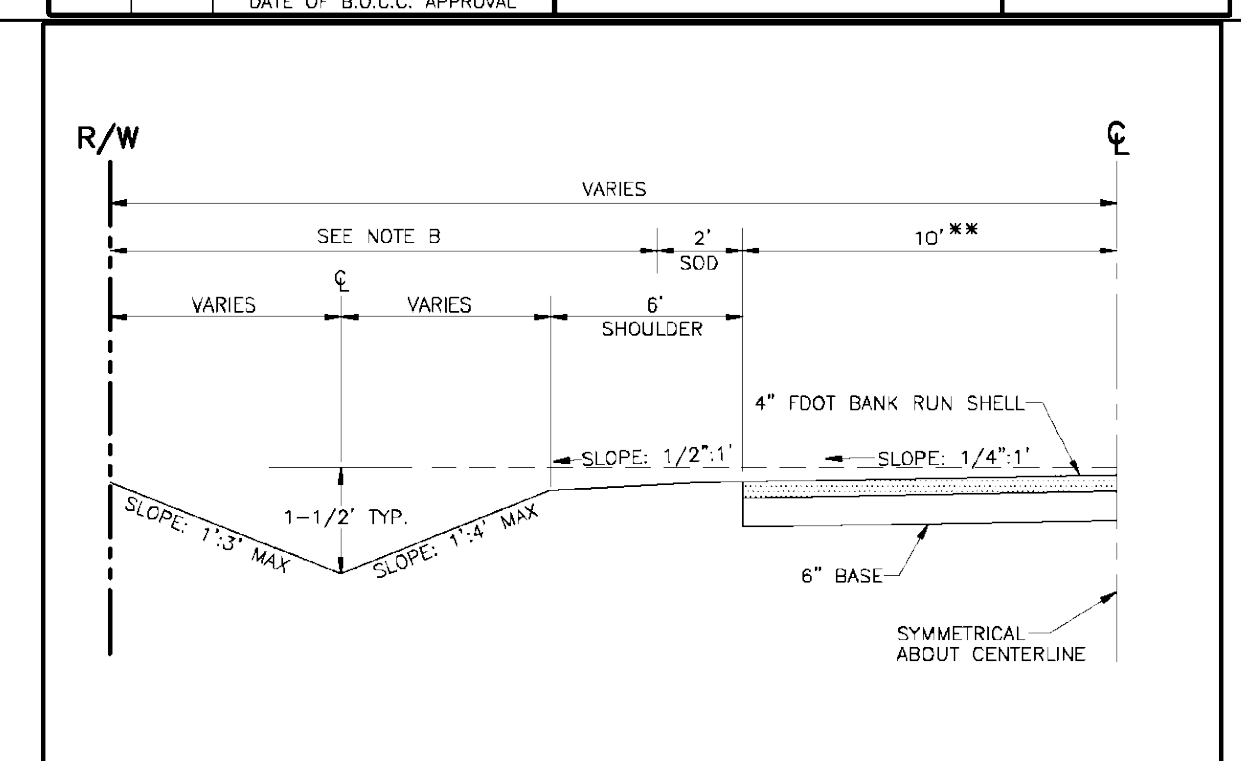
MANATEE COUNTY PUBLIC WORKS DEPARTMENT	FORCE MAIN CONNECTION TO EX. PORTLAND CONCRETE MANHOLE (3-6 FEET DEEP)	US-7A
REV. BY DATE	February 25, 2020	DATE OF APPROVAL



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



MANATEE COUNTY TRANSPORTATION DEPARTMENT	LOCAL RURAL 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
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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
DATE:

MANATEE COUNTY TRANSPORTATION DEPARTMENT
DATE OF B.O.C.C. APPROVAL: 6/12/07
RURAL SHELL ROAD
401.9
SHEET NUMBER D-03