CHARLOTTE COUNTY
BOARD OF COUNTY COMMISSIONERS

KEN DOHERTY
DISTRICT 1

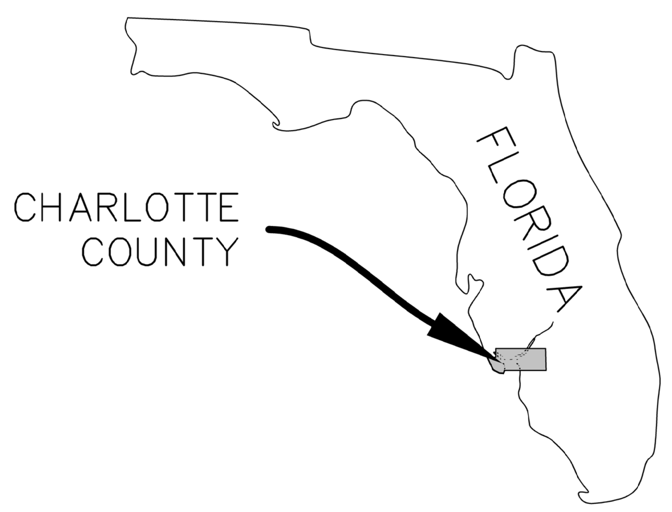
CHRISTOPHER CONSTANCE
DISTRICT 2

BILL TRUEX
DISTRICT 3

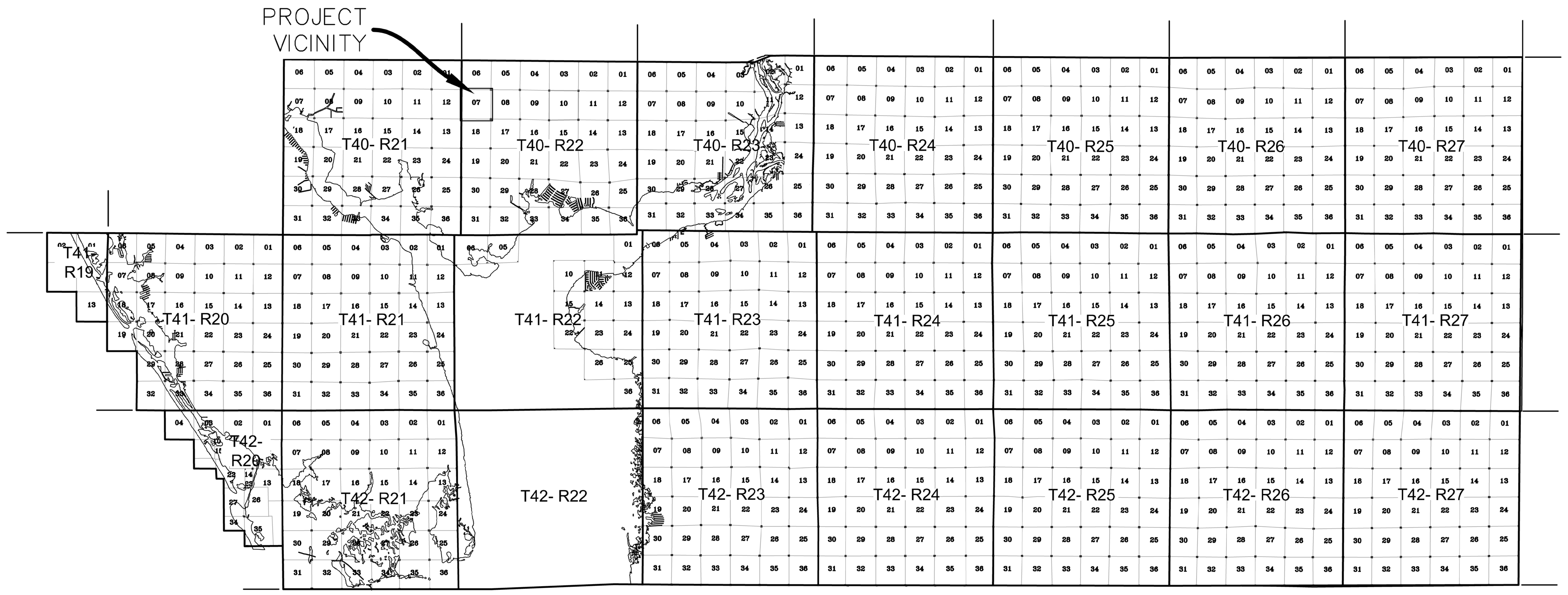
STEPHEN R. DEUTSCH
DISTRICT 4

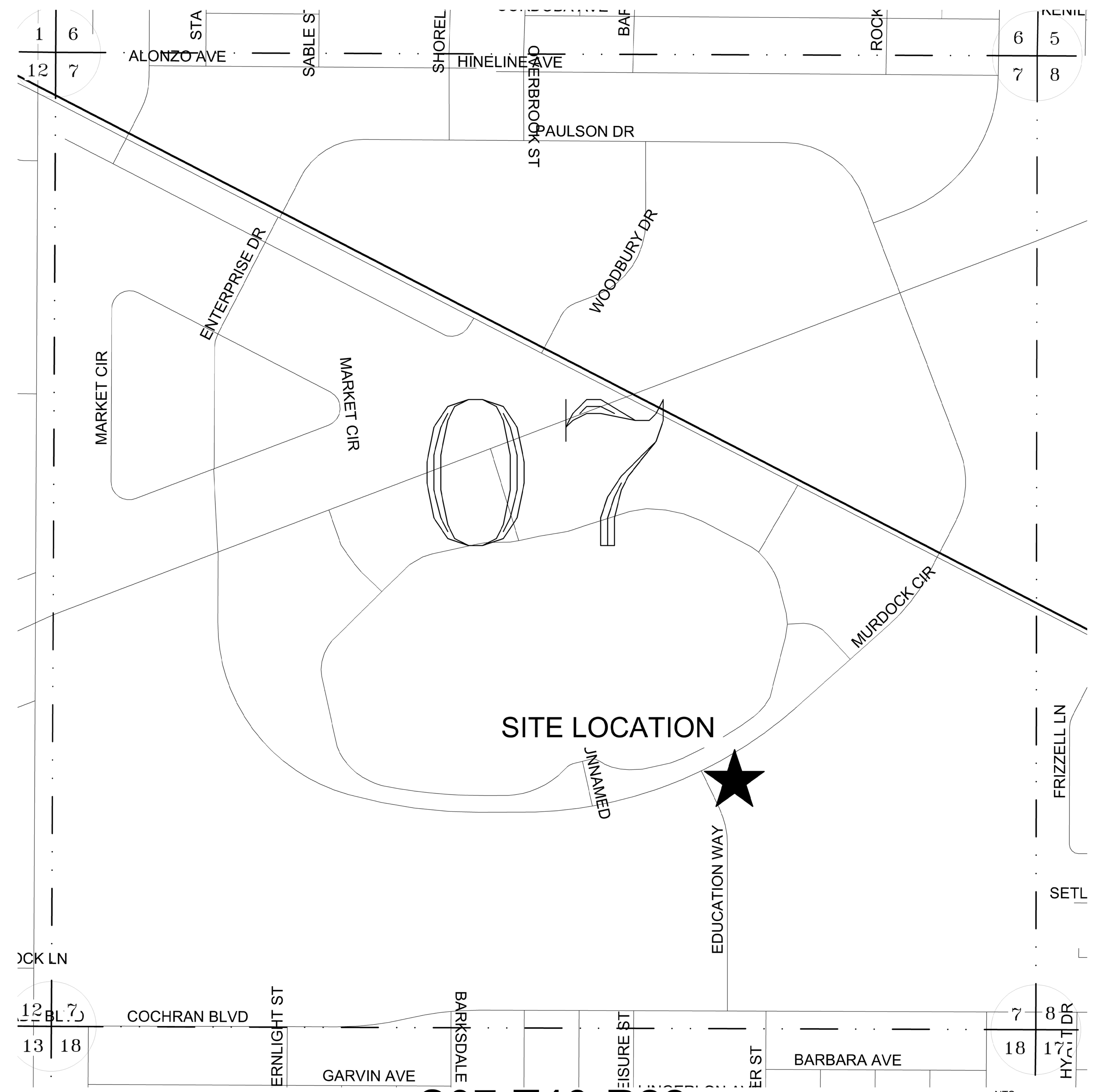
JOSEPH TISEO
DISTRICT 5

HECTOR FLORES
COUNTY ADMINISTRATOR



CCU PRJ
LIFT STATION 25





S07-T40-R22

SHEET LIST

SHEET NUMBER	SHEET TITLE
1	COVER
2	NOTES AND LEGEND
3	PLAN AND PROFILE

All elevations are based on **North American Vertical Datum (NAVD) 1988** unless otherwise noted. Coordinates are in the **Florida West Zone/ NAD 83-90 State Plane FEET** Coordinate System.

The Contractor is responsible for compliance with the applicable technical requirements of the Charlotte County Utility (CCU) Design Compliance Standards dated November 1, 2011 which are not included with the engineering drawings but are available for down load on the CCU website at http://www.charlottecountyfl.com/CCU/Engineering.

Any exception(s) to the Design Compliance Standards are included in the Special Provisions of the Bid documents.

CONSTRUCTION

CHARLOTTE COUNTY
FLORIDA

No.	DESCRIPTION	DATE	BY

DESIGNED BY: KES/AL | DWN BY: AL | CKD BY: KES
DATE: 2022-07-20 | S-T-R: S07-T40-R22 | PROJECT NO. 00-0000
DATUM: NAVD 1988 | SCALE: AS NOTED | PLOT DATE: 2022-08-18 5:17 PM
FILE LOCATION: Z:\Auto Cad R14\CURRENT-PROJECTS_MISC\LS 25\CAD\Production Drawings
SIZE: 24" X 36" | FILE NUMBER: 22-00xx COVER.dwg

CHARLOTTE COUNTY UTILITIES
25550 HARBOR VIEW RD.
PORT CHARLOTTE FL 33980
PH:941-764-4516
FAX: 941-764-4969

KENNETH E. STECHER
LICENSE
No. 90719
STATE OF FLORIDA
PROFESSIONAL ENGINEER

DATE:

LIFT STATION 25
COVER

SHEET
1

DWG: Z:\Auto Cad R14\CURRENT-PROJECTS_MISC\LS 25\CAD\Production Drawings\22-00xx COVER.dwg USER: Lfleno
DATE: Aug 18, 2022 5:17pm XREFS: Section_Lines WATERWAYS IMAGES:

NOTES:

1. ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY AND SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
2. FOR UTILITY AND DRAINAGE CONFLICTS, SEE THE CCU "TYPICAL UTILITY CROSSING DETAIL" PAGE GD-23 AND MAIN SEPARATION DETAIL PAGE GD-05 IN THE STANDARD DRAWING DETAILS ONLINE.
3. FOR DIRECTIONAL BORE REQUIREMENTS SEE TYPICAL DIRECTIONAL BORE DETAIL PAGE GD-10 IN THE STANDARD DRAWING DETAILS ONLINE.
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   A. ANY STRIPING, STOP BARS, ETC, DAMAGED OR OBLITERATED AS THE RESULTS OF CONSTRUCTION ACTIVITY SHALL BE REPLACED IN KIND.
6. OPEN CUT DRIVEWAYS:
   A. ALL DISTURBED CONCRETE DRIVEWAYS SHALL BE REMOVED AND REPLACED FROM THE EDGE OF PAVEMENT TO THE NEAREST CONSTRUCTION / EXPANSION JOINT.
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13. CHARLOTTE COUNTY SHALL ASSUME NO LIABILITY FOR ANY ERRORS, OMISSIONS, OR INACCURACIES IN THE INFORMATION PROVIDED REGARDLESS OF HOW CAUSED. CHARLOTTE COUNTY SHALL ASSUME NO LIABILITY FOR ANY DECISIONS MADE OR ACTIONS TAKEN OR NOT TAKEN BY THE USER OF THE INFORMATION OR DATA FURNISHED HEREIN.
14. THE RESOURCES FOR THE RIGHT-OF-WAY LINES, PROPERTY LINES AND BUILDING OUTLINES IS THE CHARLOTTE COUNTY G.I.S. DEPARTMENT (C) COPYRIGHT 2017-19.
15. PLEASE REFER TO THE CHARLOTTE COUNTY G.I.S. WEB SITE FOR ADDITIONAL DATA INFORMATION AND ACCURACIES. (https://www.charlottecountyfl.gov/services/gis/Pages/Shapefile-Gallery.aspx)
16. PLEASE REFER TO THE CHARLOTTE COUNTY UTILITIES DEPARTMENT STANDARD DRAWING DETAILS LOCATED AT THIS WEB ADDRESS; (https://www.charlottecountyfl.gov/dept/utilities/Pages/Standard-Drawing-Details.aspx)
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ABBREVIATIONS

AC	ASBESTOS CONCRETE PIPE
ASPH	ASPHALT
BO	BLOW-OFF
CTV	CABLE TV
CI	CAST IRON PIPE
CB	CATCH BASIN
CL	CENTER LINE
CO	CLEAN-OUT
CONC	CONCRETE
CM	CONCRETE MONUMENT
DAT	DATUM
DWG	DRAWING
DI	DUCTILE IRON PIPE
EASE	EASEMENT
E	EAST
E:	EASTING
ELEC	ELECTRIC
ETB	TOP OF BANK SURVEY CODE
EBS	BOTTOM OF SLOPE SURVEY CODE
EX	EXISTING
FH	FIRE HYDRANT
FT	FOOT
FM	FORCE MAIN
GALV	GALVINIZED PIPE
GV	GATE VALVE
HORZ	HORIZONTAL
IN	INCH
INST	INSTALL
INV	INVERT
IP	IRON PIPE
IR	IRON ROD
IRC	IRON ROD AND CAP
LF	LEFT
LS	LIFT STATION
LT	LIGHT
LF	LINEAR FEET
LP	LOW PRESSURE
LPS	LOW PRESSURE SEWER
MH	MANHOLE
M	METER
G	NATURAL GAS
N	NORTH
N:	NORTHING
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PG	PAGE
PED	PEDESTAL
PCP	PERMANENT CONTROL POINT
PG	PLUG VALVE
PT.	POINT
PVC	POLYVINYL CHLORIDE PIPE
PL	PROPERTY LINE
RGE	RANGE
RCM	RECLAIMED WATER MAIN
RCP	REINFORCED CONCRETE PIPE
RT	RIGHT
ROW	RIGHT OF WAY
SARV	SEWER AIR RELEASE VALVE
SEC	SECTION
SFV	SEWER FORCEMAIN VALVE
ST	SEPTIC TANK
SVC	SERVICE
SLE	SEWER LINE EXTENSION
SLV	SLEEVE
S	SOUTH
SST	STAINLESS STEEL
STA	STATION
SD	STORM DRAIN
TEL	TELEPHONE
TEMP	TEMPORARY
TERM	TERMINAL
TOS	TOE OF SLOPE
TOB	TOP OF BANK
T.O.P.	TOP OF PIPE
TWP	TOWNSHIP
UGND	UNDERGROUND
UTIL	UTILITY
VAC	VACUUM
VERT	VERTICAL

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

SYMBOL LEGEND

100+50	BASELINE STATIONING
	EDGE OF PAVEMENT
GS	EXISTING GRAVITY SEWER
OHU	OVERHEAD UTILITY LINE
x — x — x — x	CHAINLINK FENCE
• • •	SWALE
	EDGE OF LANDSCAPE
	TOP OF BANK, BOTTOM OF SLOPE
S	SANITARY SEWER MANHOLE
S	SEWER VALVE
W	WATER METER
BFP	BACKFLOW PREVENTER
E	ELECTRIC MANHOLE
	ELECTRIC / COMMUNICATIONS HANDHOLE
E	ELECTRIC METER
	CONCRETE POWER POLE
	GUY ANCHOR
FOC	FIBER OPTIC MARKER
	LIGHT POLE
	ANTENNA
	CCU CONTROL POINT
	PVC PIPE
× 7.22	SPOT ELEVATION
	DECIDUOUS TREE
	PALM TREE
	CONCRETE
	GRAVEL

CHARLOTTE COUNTY
FLORIDA

No.	DESCRIPTION	DATE	BY

DESIGNED BY: KES/AL	DWN BY: AL	CKD BY: KES
DATE: 2022-07-20	S-T-R S07-T40-R22	PROJECT NO.
DATUM: NAVD 1988	SCALE:	PLOT DATE: 2022-08-18 5:24 PM
FILE LOCATION: Z:\Auto Cad R14\CURRENT-PROJECTS_MISC\LS 25\CAD\Production Drawings		
SIZE: 24" X 36"	FILE NUMBER 22-00xx LEGEND.dwg	

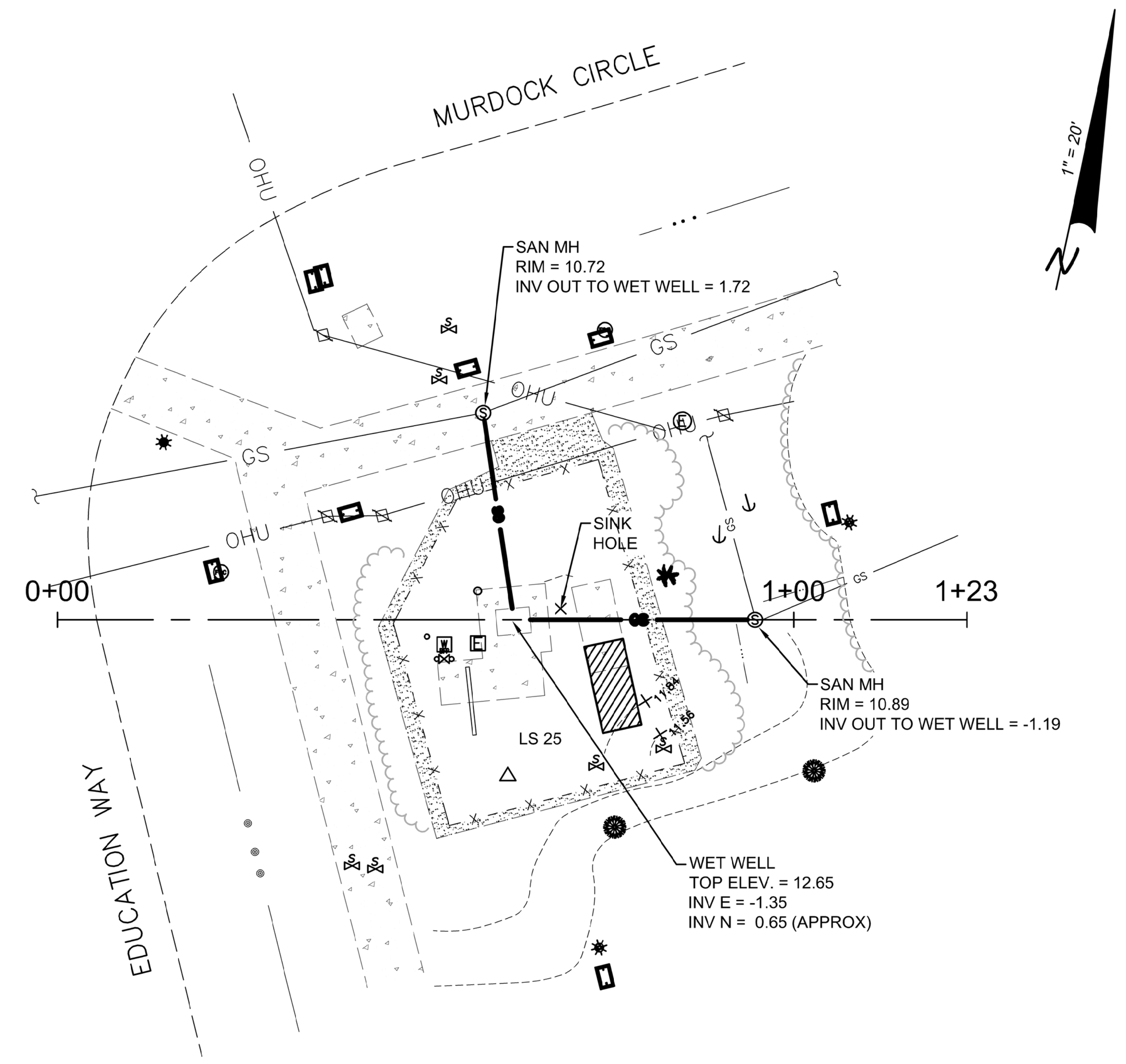
CHARLOTTE COUNTY UTILITIES
ENGINEERING SERVICES DIVISION
25550 HARBOR VIEW RD.
PORT CHARLOTTE FL 33980
PH:941-764-4516
FAX: 941-764-4969

KENNETH E. STECHER
LICENSE
No. 90719
STATE OF FLORIDA
PROFESSIONAL ENGINEER

DATE:

LIFT STATION 25
NOTES AND LEGEND

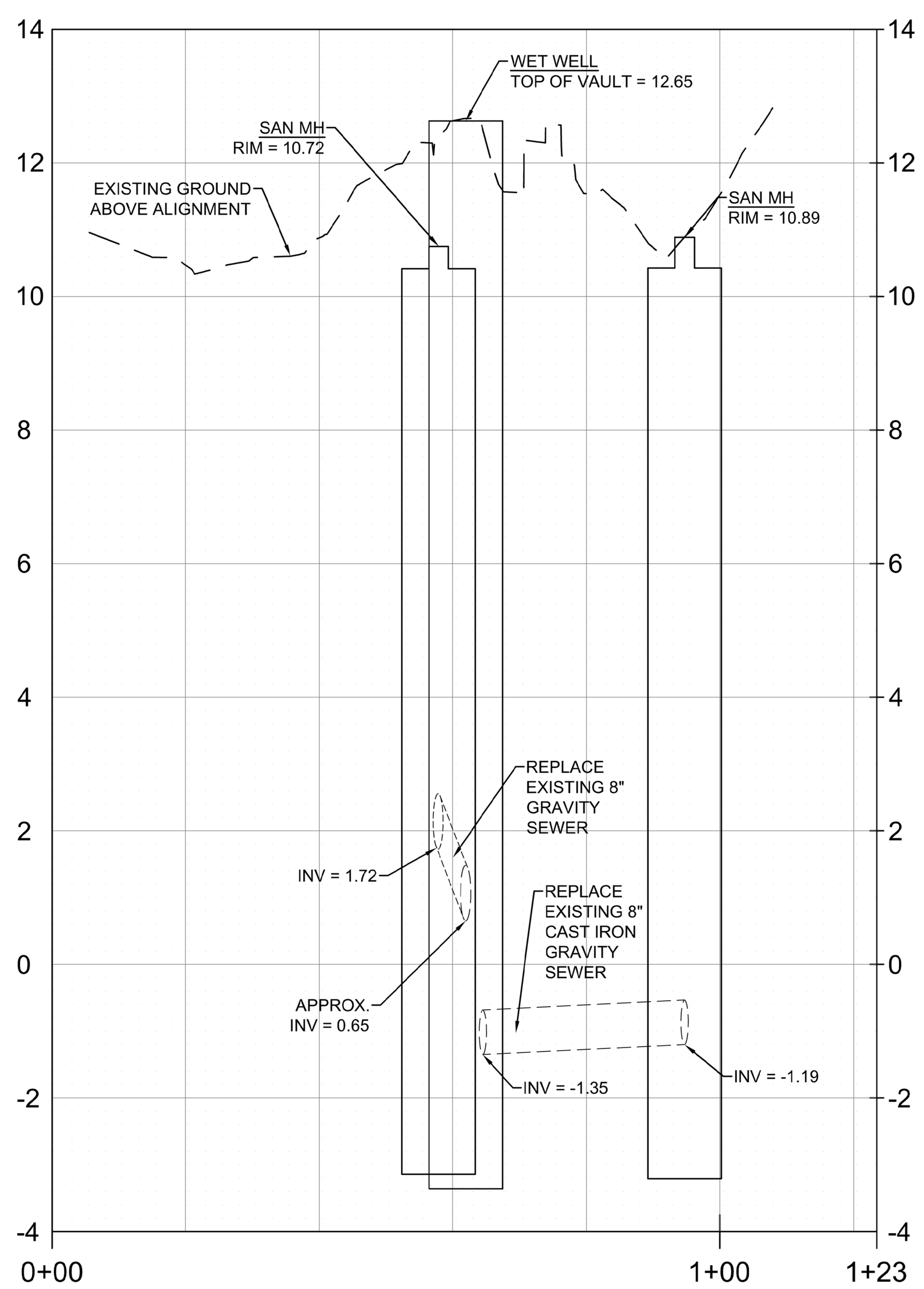
SHEET
2



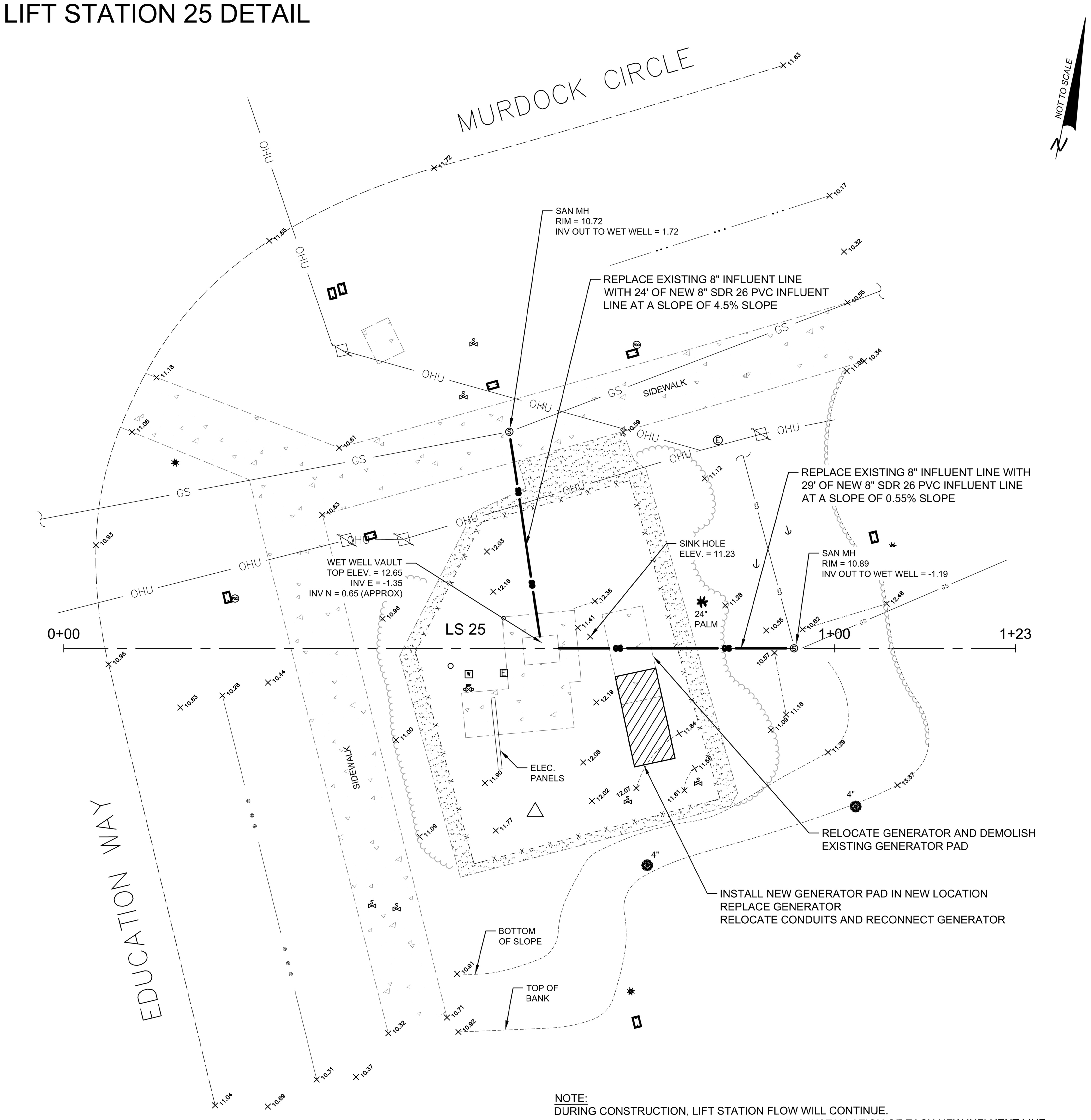
HOR. SCALE IN FEET
1" = 20'
0 20 50 100

VERT. SCALE IN FEET
1" = 2'
0 2 5 10

LS 25 PROFILE- STA: 0+00 to STA: 1+23



LIFT STATION 25 DETAIL



NOTE:
DURING CONSTRUCTION, LIFT STATION FLOW WILL CONTINUE.
BY-PASS PUMPING WILL BE REQUIRED DURING INSTALLATION OF EACH NEW INFLUENT LINE.

PRELIMINARY

Sunshine 811
Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.
Check positive response codes before you dig!

CHARLOTTE COUNTY
FLORIDA

No.	DESCRIPTION	DATE	BY

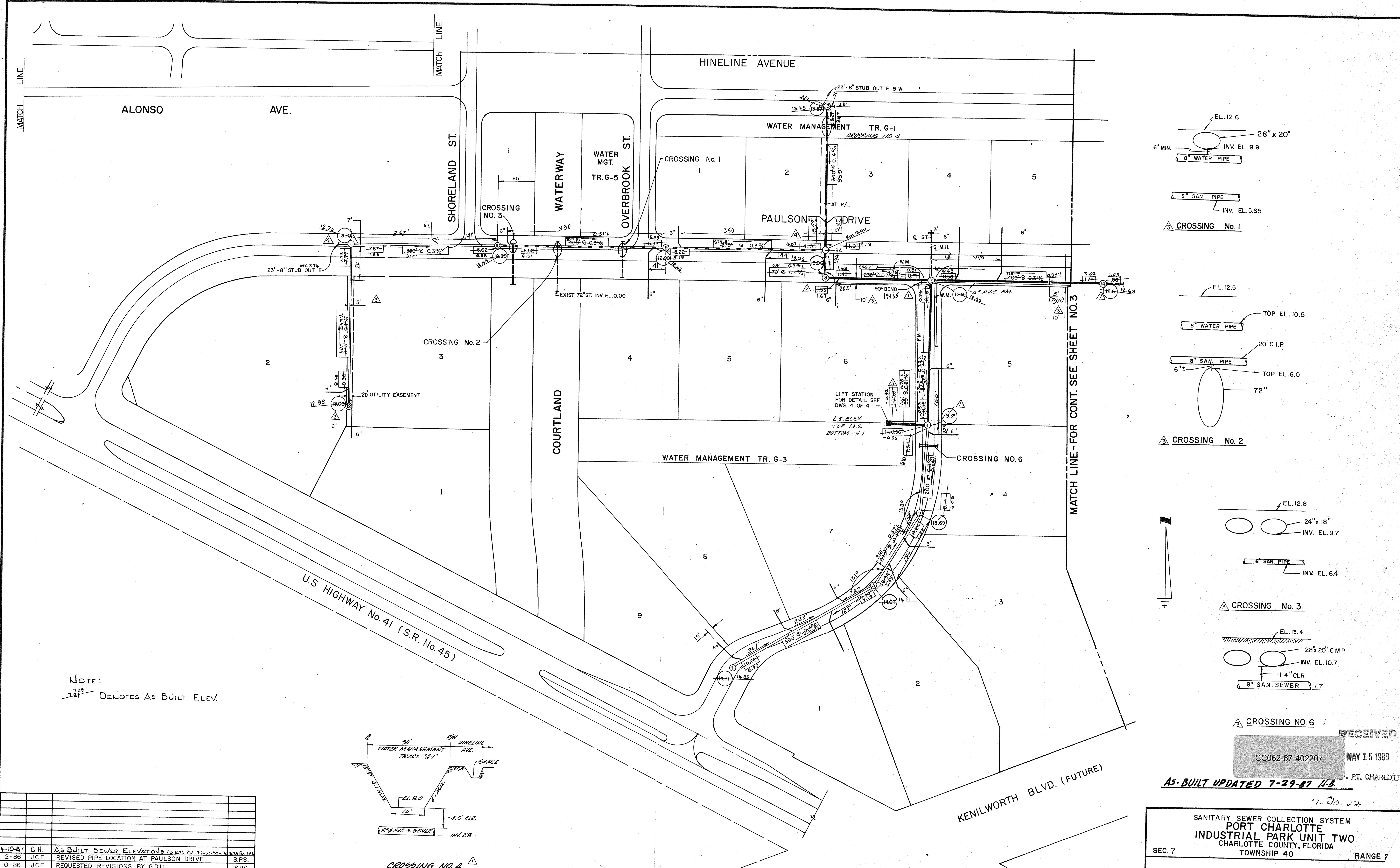
DESIGNED BY: KES / AL | DWN BY: AL | CKD BY: KES
DATE: 2022-07-20 | S-T-R: S07-T40-R22 | PROJECT NO.
DATUM: NAVD 1988 | SCALE: AS NOTED | PLOT DATE: 2015-04-20 11:18 AM
FILE LOCATION: Z:\Auto Cad R14\CURRENT-PROJECTS_MISC\LS 25\CAD\Production Drawings | FILE NUMBER 22-0Xx PLAN PROFILE
SIZE: 24" x 36"

CHARLOTTE COUNTY UTILITIES
25550 HARBOR VIEW RD.
PORT CHARLOTTE FL 33980
PH:941-764-4516
FAX: 941-764-4969

KENNETH E. STECHER
LICENSE
No. 90719
STATE OF FLORIDA
PROFESSIONAL ENGINEER
DATE:

LIFT STATION 25
PLAN / PROFILE

SHEET
3



RECEIVED
MAY 1 5 1989
PT. CHARLOTTE

CC062-87-402207

AS-BUILT UPDATED 7-29-87 H.B.

7-20-22

	DATE	DWN. BY	DESCRIPTION	APPR. BY
	4-10-87	C.H.	AS BUILT SEWER ELEVATIONS FB 1674 PGS. 18-20, 27-30 - FB 1675 PGS 1 & 2	
4	12-86	J.C.F.	REVISED PIPE LOCATION AT PAULSON DRIVE	S.P.S.
3	10-86	J.C.F.	REQUESTED REVISIONS BY G.D.U.	S.P.S.
2	9-86	JCF	REVISED PIPE INVERTS	SPS
1	9-86	J.T.	REVISED AS PER COUNTY COMMENTS	SPS

REVISIONS

37821
REPRO PRODUCTS, INC

SANITARY SEWER COLLECTION SYSTEM
PORT CHARLOTTE
INDUSTRIAL PARK UNIT TWO
CHARLOTTE COUNTY, FLORIDA
SEC. 7 TOWNSHIP 40 RANGE 2

PEDRO RODRIGUEZ, P.E.
BY ____
P.E. NO. 21605
STATE OF FLORIDA

DATE SEPT. 86	DSG BY A.G.	DWN BY N.K.	RELEASED BY	SHE
SCALE 1" = 100'	CK'D. BY P.R.	APPR BY		

FILE CC-IP2 857-41-

CHARLOTTE COUNTY
BOARD OF COUNTY COMMISSIONERS

KEN DOHERTY
DISTRICT 1

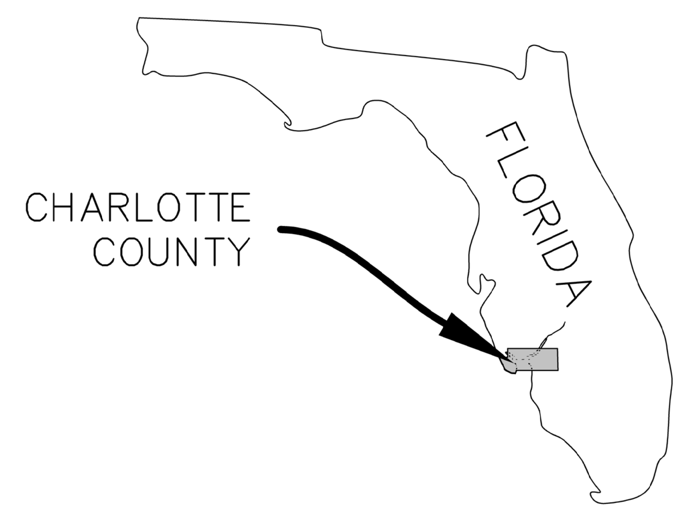
CHRISTOPHER CONSTANCE
DISTRICT 2

BILL TRUEX
DISTRICT 3

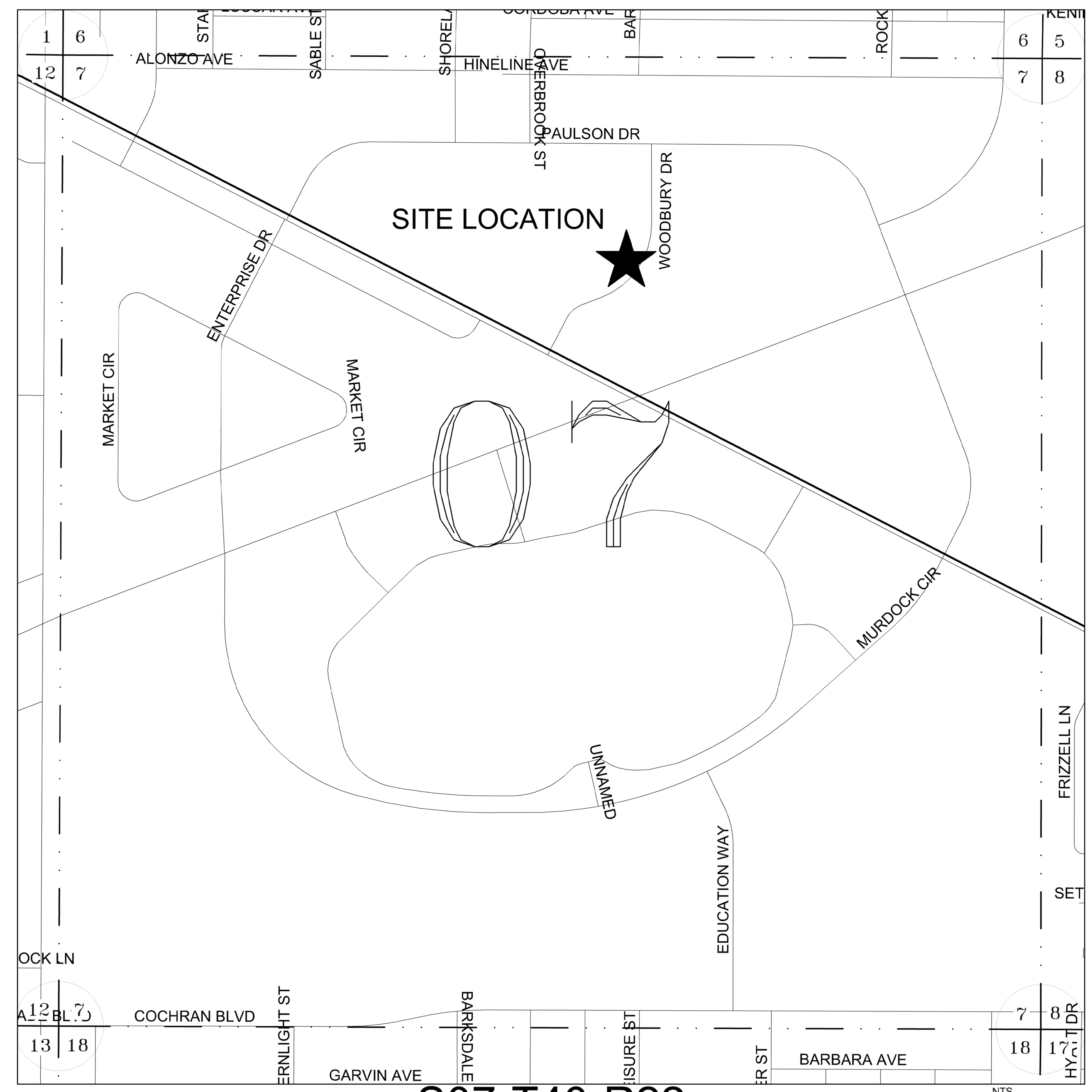
STEPHEN R. DEUTSCH
DISTRICT 4

JOSEPH TISEO
DISTRICT 5

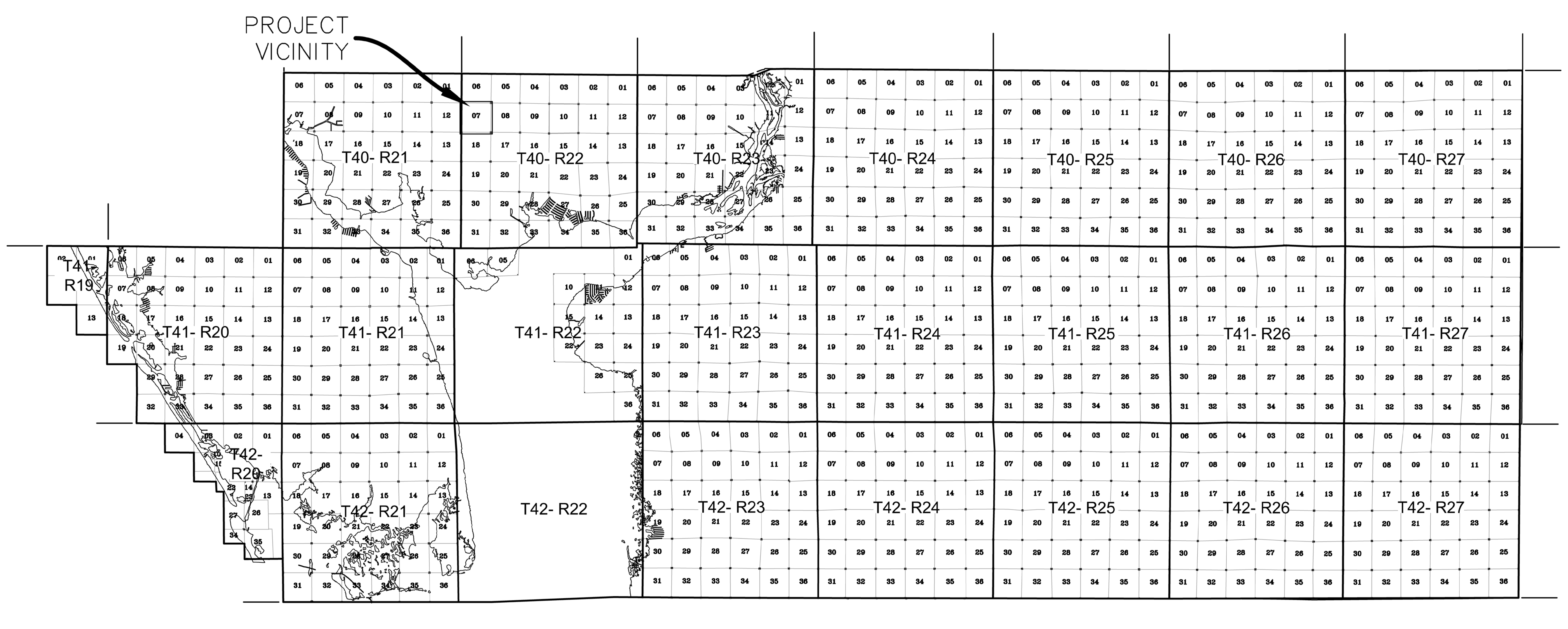
HECTOR FLORES
COUNTY ADMINISTRATOR



CCU PRJ # 0-22-035
WOODBURY LIFT STATION #45
MAIN INLET REPLACEMENT



S07-T40-R22



SHEET LIST

SHEET NUMBER	SHEET TITLE
1	COVER
2	NOTES AND LEGEND
3	PLAN AND PROFILE
4	DETAILS-1
5	DETAILS-2

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CONSTRUCTION

CHARLOTTE COUNTY
FLORIDA

No.	DESCRIPTION	DATE	BY

DESIGNED BY: AL MMK
DWN BY: AL / MMK
CKD BY: KES
DATE: 2022-06-01
S-T-R S07-T40-R22
PROJECT NO. 22-0020
DATUM: NAVD 1988
SCALE: AS NOTED
PLOT DATE: 2022-07-014
FILE LOCATION: Z:\Auto Cad R14\CURRENT-PROJECTS_ACTIVE\2022\22-0020 Woodbury LS Inlet Replacement\CAD\Production Drawings
SIZE: 24" X 36"
FILE NUMBER 22-0020 COVER.dwg

CHARLOTTE COUNTY UTILITIES
25550 HARBOR VIEW RD.
PORT CHARLOTTE FL 33980
PH:941-764-4516
FAX: 941-764-4969

KENNETH E. STECHER
LICENSE
No. 90719
STATE OF FLORIDA
PROFESSIONAL ENGINEER

DATE:

22-0020 WOODBURY
LIFT STATION #45
MAIN INLET REPLACEMENT
COVER

SHEET
1

NOTES:

1. ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY AND SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
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18. PLEASE REFER TO CHARLOTTE COUNTY PUBLIC WORKS DEPARTMENT FOR PAVEMENT RESTORATION. (https://www.charlottecountyfl.gov/core/fileparse.php/363/urlt/engineering-design-and-construction-standards.pdf)

ABBREVIATIONS

AC	ASBESTOS CONCRETE PIPE
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BO	BLOW-OFF
CTV	CABLE TV
CI	CAST IRON PIPE
CB	CATCH BASIN
CL	CENTER LINE
CO	CLEAN-OUT
CONC	CONCRETE
CM	CONCRETE MONUMENT
DAT	DATUM
DWG	DRAWING
DI	DUCTILE IRON PIPE
ESMT	EASEMENT
E	EAST
E:	EASTING
ELEC	ELECTRIC
ETB	TOP OF BANK
EBS	BOTTOM OF SLOPE
EX	EXISTING
FH	FIRE HYDRANT
FT	FOOT
FM	FORCE MAIN
FOC	FIBER OPTIC CABLE
GALV	GALVINIZED PIPE
GV	GATE VALVE
HORZ	HORIZONTAL
IN	INCH
INST	INSTALL
INV	INVERT
IP	IRON PIPE
IR	IRON ROD
IRC	IRON ROD AND CAP
LF	LINEAR FEET
LFT	LEFT
LS	LIFT STATION
LT	LIGHT
LF	LINEAR FEET
LP	LOW PRESSURE
LPS	LOW PRESSURE SEWER
MH	MANHOLE
M	METER
G	NATURAL GAS
N	NORTH
N:	NORTHING
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OHU	OVERHEAD UTILITY
PG	PAGE
PED	PEDESTAL
PCP	PERMANENT CONTROL POINT
PG	PLUG VALVE
PT.	POINT
PVC	POLYVINYL CHLORIDE PIPE
PL	PROPERTY LINE
RGE	RANGE
RCM	RECLAIMED WATER MAIN
RCP	REINFORCED CONCRETE PIPE
RT	RIGHT
ROW	RIGHT OF WAY
SARV	SEWER AIR RELEASE VALVE
SEC	SECTION
SFV	SEWER FORCEMAIN VALVE
ST	SEPTIC TANK
SVC	SERVICE
SLE	SEWER LINE EXTENSION
SLV	SLEEVE
S	SOUTH
SST	STAINLESS STEEL
STA	STATION
SD	STORM DRAIN
TEL	TELEPHONE
TEMP	TEMPORARY
TERM	TERMINAL
TOS	TOE OF SLOPE
TOB	TOP OF BANK
T.O.P.	TOP OF PIPE
TWP	TOWNSHIP
UGND	UNDERGROUND

SYMBOL LEGEND

100+50	BASELINE STATIONING
	CENTERLINE OF ROAD
	EDGE OF PAVEMENT
GS	EXISTING GRAVITY SEWER
OHU	OVERHEAD UTILITY LINE
x x x x	CHAINLINK FENCE
	SWALE
	STORM DRAINAGE PIPE
S	SANITARY SEWER MANHOLE
E	ELECTRIC MANHOLE
	ELECTRIC HANDHOLE
W	WATER METER
BFP	BACKFLOW PREVENTER
	WOOD UTILITY POLE
	MAILBOX
	DECIDUOUS TREE
	CONCRETE
	EXISTING PIPE (PROFILE)
	PROPOSED PIPE (PROFILE)

CHARLOTTE COUNTY
FLORIDA

No.	DESCRIPTION	DATE	BY

DESIGNED BY: AL | DWN BY: MMK / AL | CKD BY: KES
DATE: 2022-06-01 | S-T-R S07-T40S-R22E | PROJECT NO. 22-0020
DATUM: NAVD 1988 | SCALE: NTS | PLOT DATE: 2022-06-01
FILE LOCATION: Z:\Auto Cad R14\CURRENT PROJECTS_ACTIVE\2022\22-0020 Woodbury LS Inlet Replacement\CAD\Production Drawings\
SIZE: 24" X 36" | FILE NUMBER 22-0020 LEGEND.dwg

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PORT CHARLOTTE FL 33980
PH:941-764-4516
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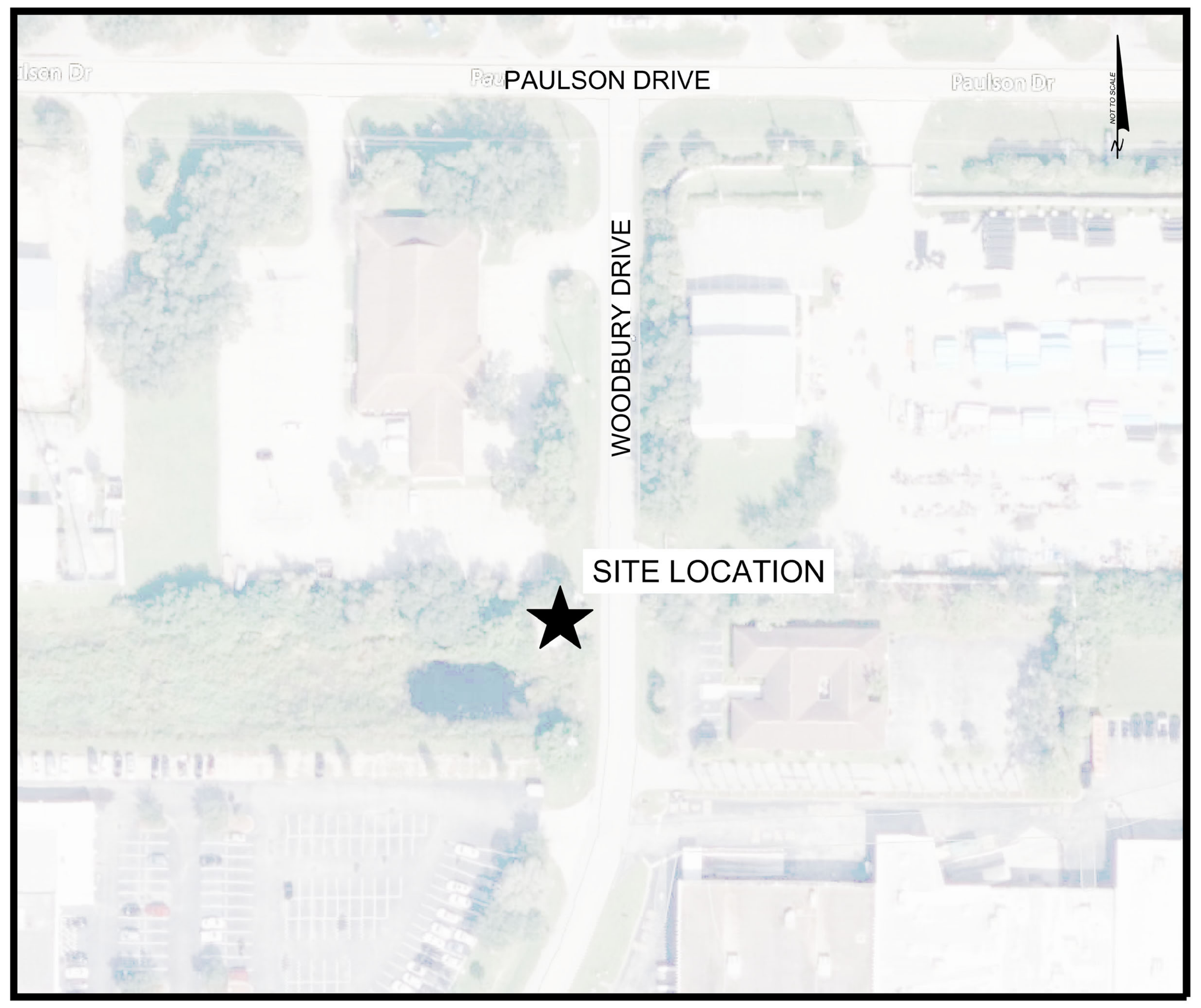
KENNETH E. STECHER
LICENSE
No. 90719
STATE OF FLORIDA
PROFESSIONAL ENGINEER

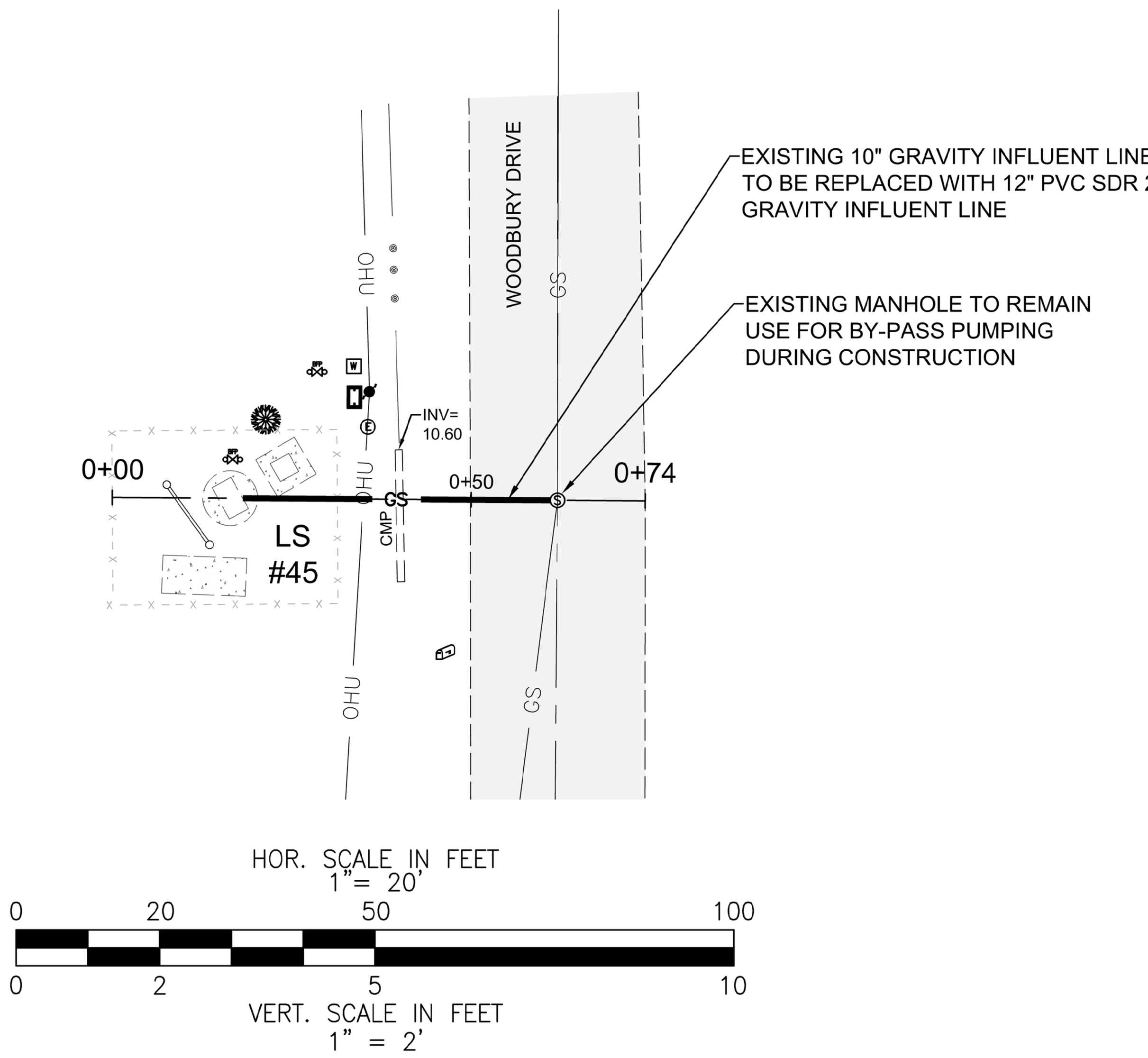
DATE:

22-0020 WOODBURY
LIFT STATION #45
MAIN INLET REPLACEMENT

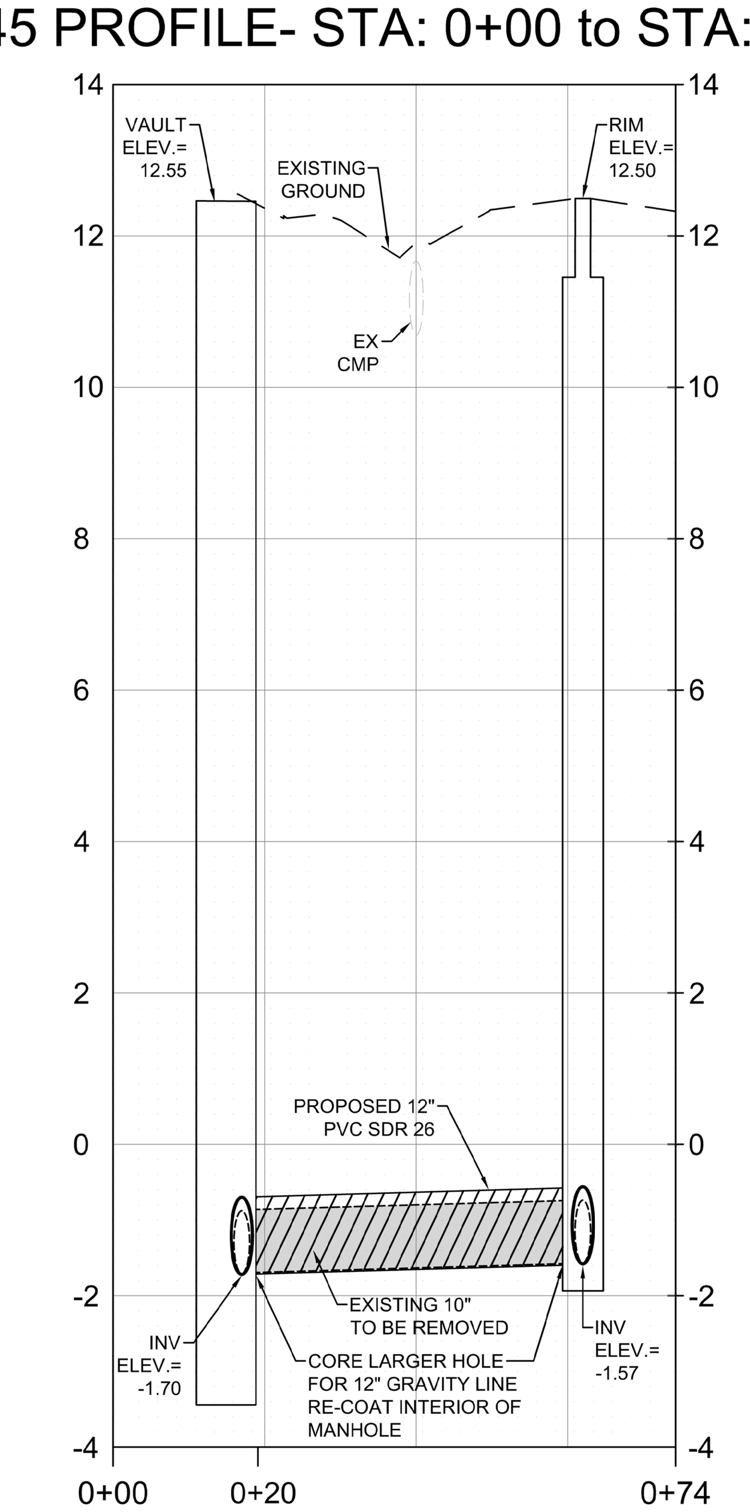
NOTES AND LEGEND

SHEET
2





LS 45 PROFILE- STA: 0+00 to STA: 0+74



CHARLOTTE COUNTY
FLORIDA

No.	DESCRIPTION	DATE	BY

DESIGNED BY: AL
DWN BY: AL
CKD BY: KES
DATE: 2022-07-20
S-T-R
S07-T40S-R22E
PROJECT NO.
22-0020
DATUM:
NAVD 1988
SCALE: 1" = 20'
PLOT DATE:
2022-06-01
FILE LOCATION: Z:\Auto Cad R14\CURRENT-PROJECTS_ACTIVE\2022\22-0020 Woodbury LS Inlet Replacement\CAD\Production Drawings
SIZE: 24" x 36"
FILE NUMBER
22-0020 Plan Profile.dwg

CHARLOTTE COUNTY UTILITIES
25550 HARBOR VIEW RD.
PORT CHARLOTTE FL 33980
PH:941-764-4516
FAX: 941-764-4969

KENNETH E. STECHER
LICENSE
No. 90719
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

DATE:

22-0020 WOODBURY
LIFT STATION #45 MAIN INLET
REPLACEMENT

PLAN / PROFILE

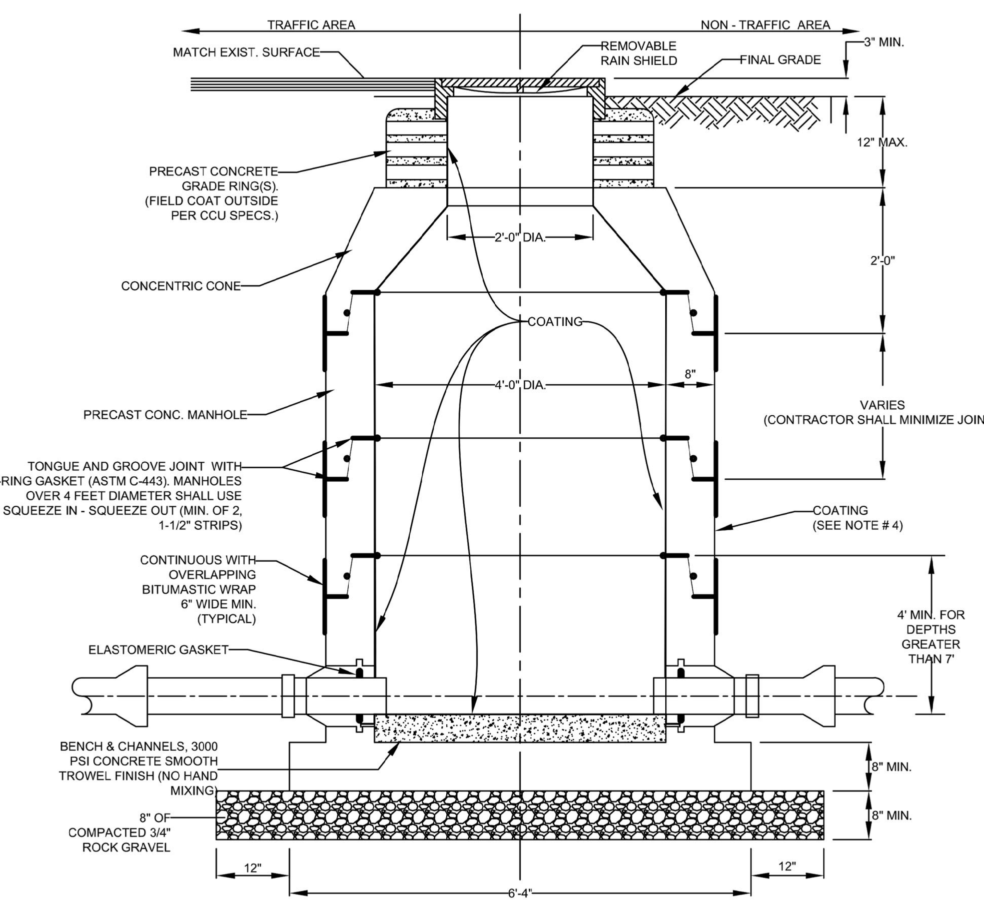
PRELIMINARY

Sunshine811

Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.

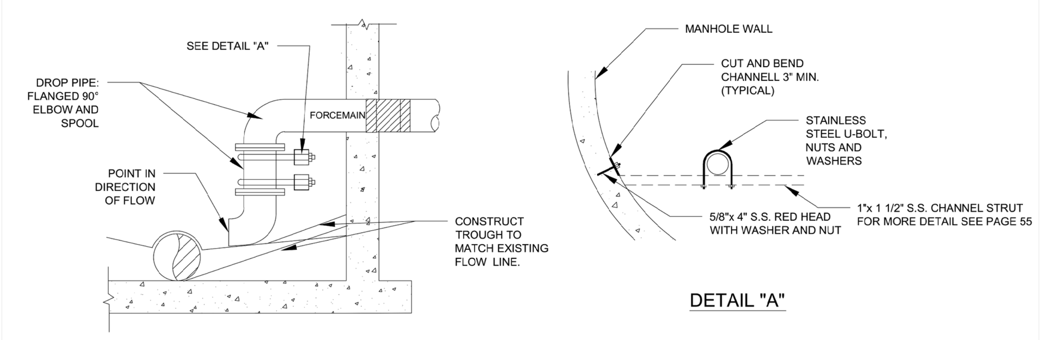
Check positive response codes before you dig!

SHEET
3

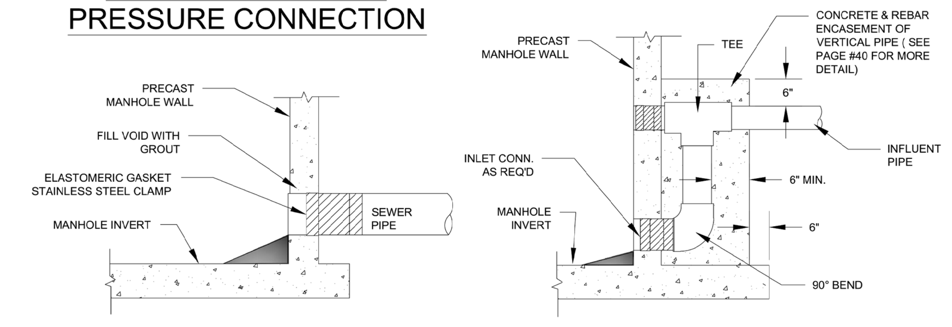


NOTE:
1. PROVIDE 1% SLOPE THROUGH MANHOLE.

DATE: 11/01/2011	STANDARD PRECAST MANHOLE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GS-01
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GS-01-PCMH.DWG



FORCEMAIN & LOW PRESSURE CONNECTION

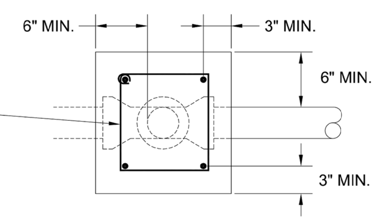


TYPICAL CONNECTION

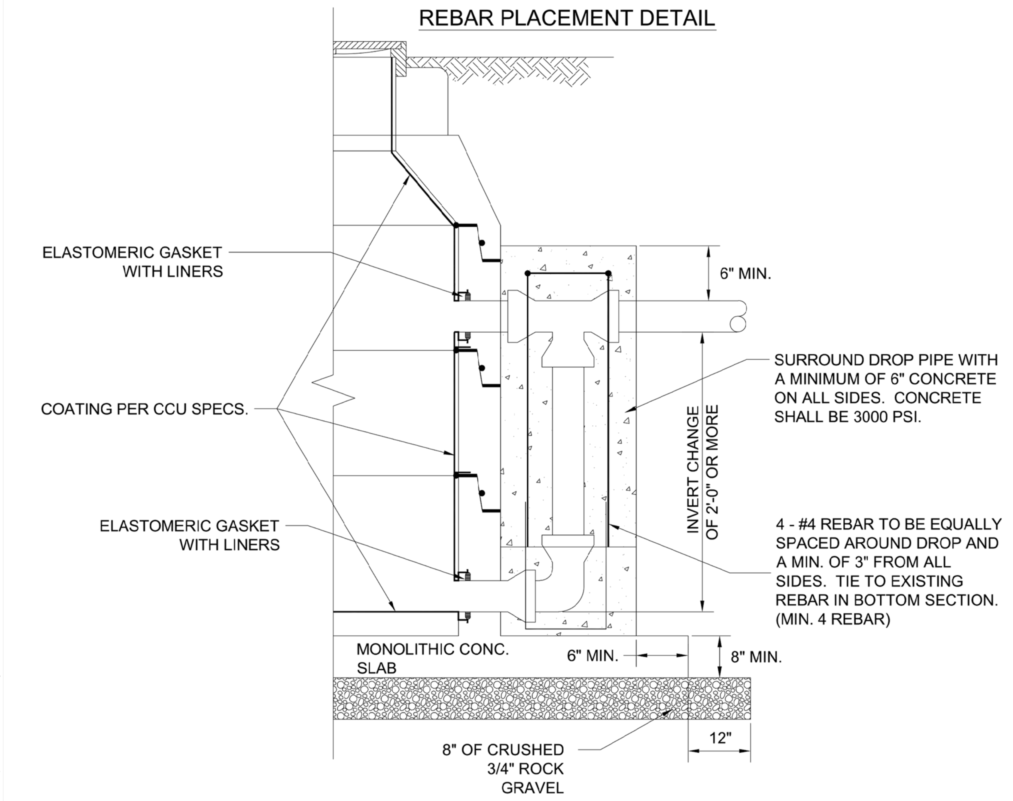
DROP CONNECTION

NOTES:
1. PENETRATIONS TO EXISTING MANHOLES SHALL BE CORE BORED, AND ELASTOMERIC GASKET WITH STAINLESS STEEL PIPE CLAMP SHALL BE INSTALLED.
2. DROP CONNECTION SHALL BE REQUIRED WHENEVER THE INVERT OF AN INFLUENT SEWER IS LOCATED TWO (2) OR MORE FEET ABOVE THE MAIN CHANNEL.
3. DROP PIPE SHALL BE OF EQUAL SIZE AS THE INFLUENT SEWER. DROP PIPE SHALL BE PVC WITH STAINLESS STEEL FITTINGS. IF A TRANSITION TO OTHER TYPE OF PIPE, THE TRANSITION SHALL BE OUTSIDE OF MANHOLE.

DATE: 11/01/2011	CONNECTIONS TO EXISTING MANHOLE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GS-02
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GS-04-MHCON.dwg

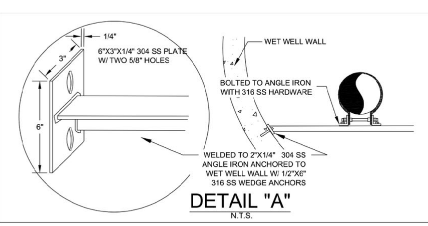


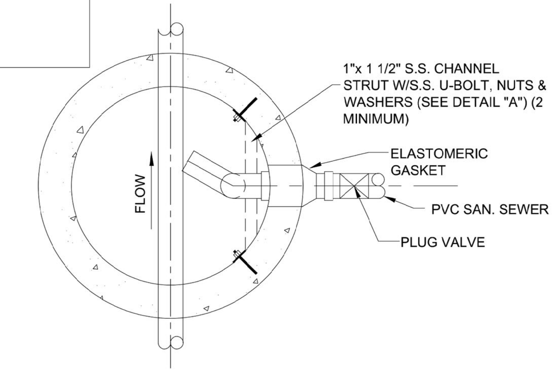
REBAR PLACEMENT DETAIL



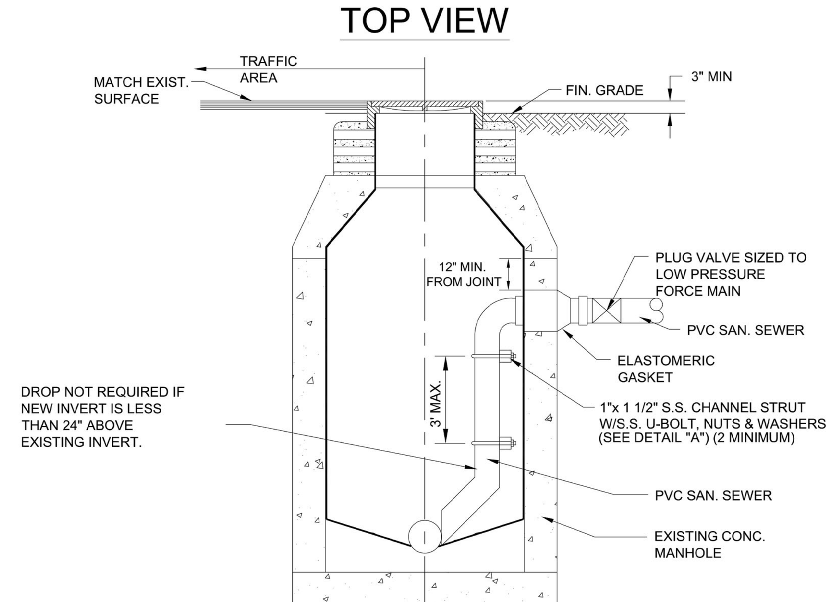
NOTE:
1. PROVIDE 1% SLOPE THROUGH MANHOLE.

DATE: 11/01/2011	OUTSIDE DROP MANHOLE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GS-03
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GS-03-OSDMH.dwg



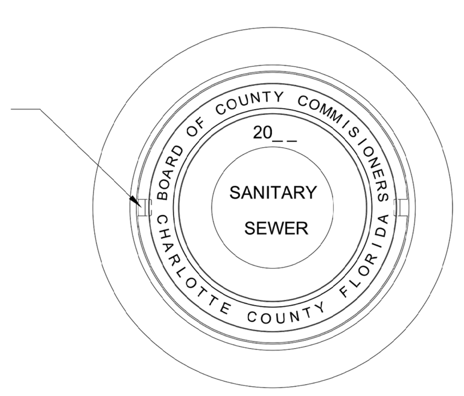


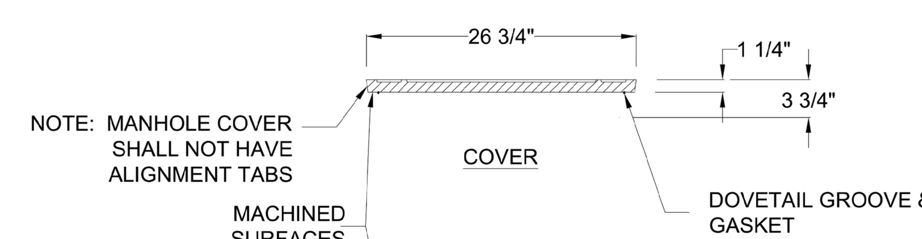
TOP VIEW



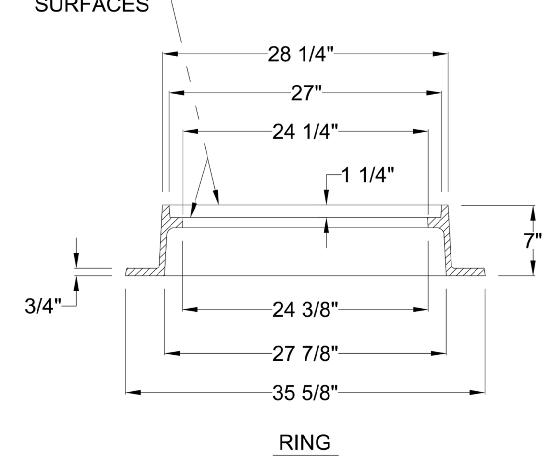
PROFILE VIEW

DATE: 11/01/2011	INSIDE DROP MANHOLE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GS-05
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GS-05-ISD-PCMH.dwg





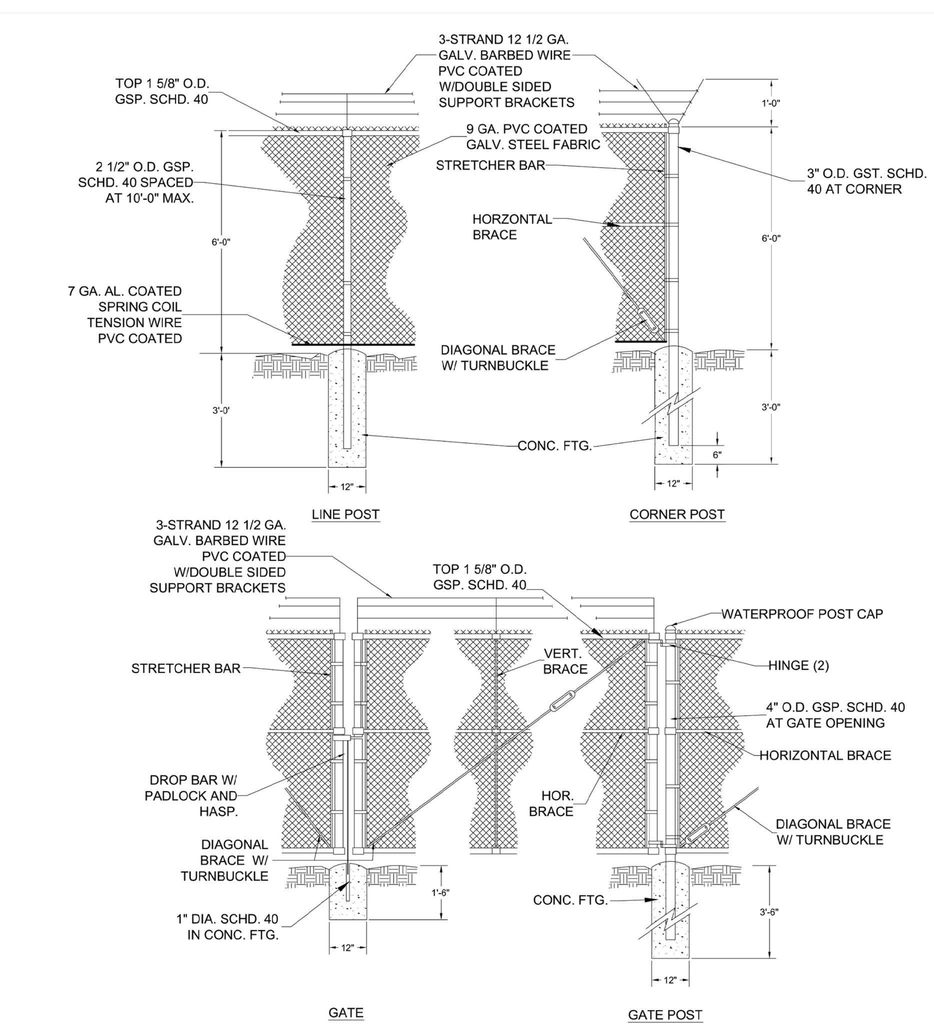
COVER



RING

** AVAILABLE IN HINGED MODEL **

DATE: 11/01/2011	MANHOLE RING & COVER	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GS-12
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GS-12-MHRC.dwg



NOTES:
1. DOUBLE GATE TO BE 16'-0" CLEAR OPENING OR AS SPECIFIED.
2. PVC COATED GALVANIZED STEEL WOVEN WIRE FABRIC TO BE STRETCHED TAUT W/STRETCHER BARS AND STRAPS AND FASTENED TOP & BOTTOM AND AT POSTS WITH GALV. PVC COATED PIG RING TIES. AS TO COMPLY WITH ASTM-392, CLASS II.
3. EACH GATE TO BE SECURED OPEN WITH A GATE STOP SET IN CONCRETE.
4. ALL HARDWARE, PIPE AND ACCESSORIES TO COMPLY TO ASTM 1-120,123,153 AND TO BE PVC COATED AND MATCH IN COLOR.
5. COLOR OF FENCING, POSTS, HARDWARE AND BARBED WIRE SHALL BE PVC COATED BLACK. UNLESS APPROVED BY CCU.

DATE: 11/01/2011	SECURITY FENCE-ABOVE GROUND VALVES- STANDARD LIFT STATION	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		LS-18
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: LS-18-AGV-FNC.dwg

CONSTRUCTION

CHARLOTTE COUNTY FLORIDA

No.	DESCRIPTION	DATE	BY

DESIGNED BY: MMK | DWN BY: MMK | CKD BY: BRB
DATE: 2022-06-01 | S-T-R: S07-T40S-R22E | PROJECT NO. 21-0003
DATUM: NAVD 1988 | SCALE: NTS | PLOT DATE: 2022-06-01
FILE NUMBER: 22-0020 DETAILS_MK.dwg
SIZE: ARCH D

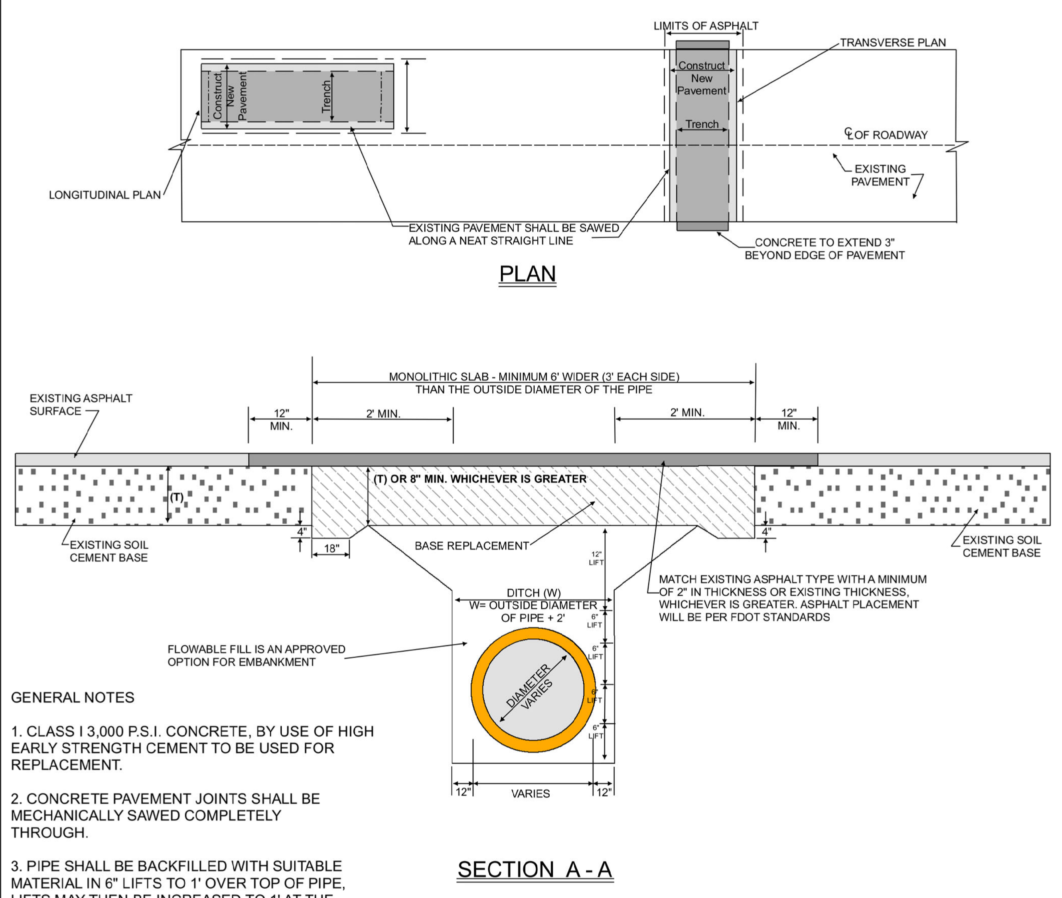
CHARLOTTE COUNTY UTILITIES
25550 HARBOR VIEW RD.
PORT CHARLOTTE FL 33980
PH:941-764-4516
FAX: 941-764-4969

KENNETH E. STECHER
LICENSE No. 90719
STATE OF FLORIDA
PROFESSIONAL ENGINEER
DATE:

22-0020 WOODBURY LIFT STATION #45 MAIN INLET REPLACEMENT

DETAILS-1

SHEET 4



GENERAL NOTES

1. CLASS I 3,000 P.S.I. CONCRETE, BY USE OF HIGH EARLY STRENGTH CEMENT TO BE USED FOR REPLACEMENT.

2. CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED COMPLETELY THROUGH.

3. PIPE SHALL BE BACKFILLED WITH SUITABLE MATERIAL IN 6" LIFTS TO 1' OVER TOP OF PIPE, LIFTS MAY THEN BE INCREASED TO 1' AT THE DISCRETION OF THE ENGINEER.

4. DENSITY TESTS WILL BE PREPARED AT THE RATE OF TWO (2) PER ALTERNATING LIFT PER TRAVEL LANE.

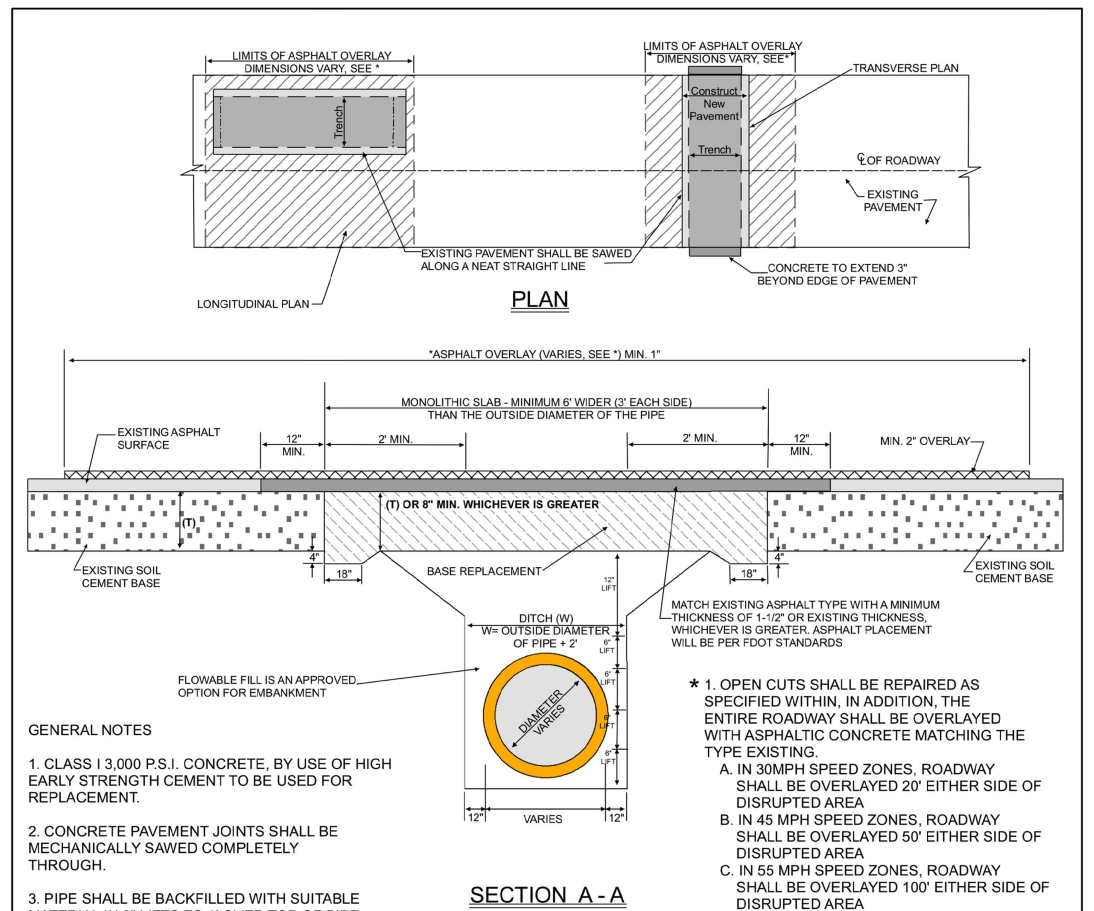
5. ASPHALTIC CONCRETE SHALL MATCH EXISTING TYPE AND SHALL BE A MINIMUM OF 2" IN THICKNESS UNLESS OTHERWISE DIRECTED BY THE COUNTY ENGINEER.

6. CONCRETE SHALL EXTEND 3" BEYOND EDGE OF PAVEMENT.

7. ALL STRIPING, REFLECTORS OR OTHER MARKING OBLITERATED OR DAMAGED BY OVERLAYING, SHALL BE RESTORED IN ACCORDANCE WITH FDOT STANDARDS AND TO THE SATISFACTION OF CHARLOTTE COUNTY.

CHARLOTTE COUNTY ENGINEERING DESIGN STANDARD

CHARLOTTE COUNTY FLORIDA			STANDARD ROAD DETAIL SOIL CEMENT BASE RESTORATION FOR LOW TRAFFIC ROADWAYS WHERE PAVEMENT IS OLDER THAN 10 YEARS	R-5 Sheet 1 of 7



GENERAL NOTES

1. CLASS I 3,000 P.S.I. CONCRETE, BY USE OF HIGH EARLY STRENGTH CEMENT TO BE USED FOR REPLACEMENT.

2. CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED COMPLETELY THROUGH.

3. PIPE SHALL BE BACKFILLED WITH SUITABLE MATERIAL IN 6" LIFTS TO 1' OVER TOP OF PIPE, LIFTS MAY THEN BE INCREASED TO 1' AT THE DISCRETION OF THE ENGINEER.

4. DENSITY TESTS WILL BE PREPARED AT THE RATE OF TWO (2) PER ALTERNATING LIFT PER TRAVEL LANE.

5. ASPHALTIC CONCRETE SHALL MATCH EXISTING TYPE AND SHALL BE A MINIMUM OF 2" IN THICKNESS UNLESS OTHERWISE DIRECTED BY THE COUNTY ENGINEER.

6. CONCRETE SHALL EXTEND 3" BEYOND EDGE OF PAVEMENT.

* 1. OPEN CUTS SHALL BE REPAIRED AS SPECIFIED WITHIN, IN ADDITION, THE ENTIRE ROADWAY SHALL BE OVERLAYED WITH ASPHALTIC CONCRETE MATCHING THE TYPE EXISTING.
  A. IN 30MPH SPEED ZONES, ROADWAY SHALL BE OVERLAYED 20' EITHER SIDE OF DISRUPTED AREA
  B. IN 45 MPH SPEED ZONES, ROADWAY SHALL BE OVERLAYED 50' EITHER SIDE OF DISRUPTED AREA
  C. IN 55 MPH SPEED ZONES, ROADWAY SHALL BE OVERLAYED 100' EITHER SIDE OF DISRUPTED AREA

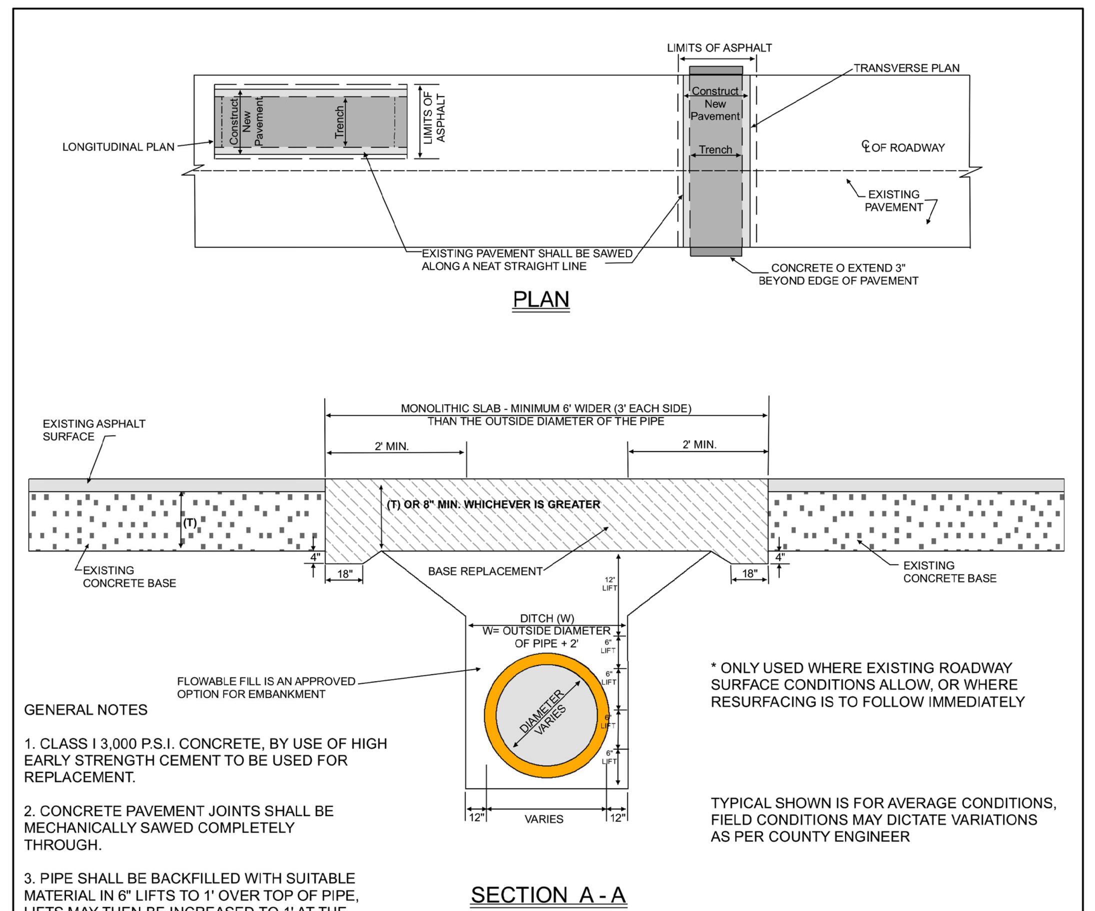
2. ROADWAY SURFACE DISTORTIONS AS A RESULT OF JACK AND BORE (SETTLING), "PUSH" (HUMPING OF ROADWAY) OR ANY OTHER FORM OF DAMAGE WHICH WOULD REQUIRE PATCHING SHALL BE OVERLAYED WITH ASPHALTIC CONCRETE MATCHING THE TYPE EXISTING, OUTLINED IN 1A, 1B AND 1C.

ALL STRIPING, REFLECTORS OR OTHER MARKINGS OBLITERATED OR DAMAGED BY OVERLAYING SHALL BE RESTORED IN ACCORDANCE WITH FDOT STANDARDS AND TO THE SATISFACTION OF CHARLOTTE COUNTY.

TYPICAL SHOWN IS FOR AVERAGE CONDITIONS, FIELD CONDITIONS MAY DICTATE VARIATIONS AS PER COUNTY ENGINEER

CHARLOTTE COUNTY ENGINEERING DESIGN STANDARD

CHARLOTTE COUNTY FLORIDA			STANDARD ROAD DETAIL SOIL CEMENT BASE RESTORATION FOR HIGH TRAFFIC ROADWAYS, INTERSECTIONS, AND ACCELERATION/DECELERTION LANES	R-5 Sheet 2 of 7



GENERAL NOTES

1. CLASS I 3,000 P.S.I. CONCRETE, BY USE OF HIGH EARLY STRENGTH CEMENT TO BE USED FOR REPLACEMENT.

2. CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED COMPLETELY THROUGH.

3. PIPE SHALL BE BACKFILLED WITH SUITABLE MATERIAL IN 6" LIFTS TO 1' OVER TOP OF PIPE, LIFTS MAY THEN BE INCREASED TO 1' AT THE DISCRETION OF THE ENGINEER.

4. DENSITY TESTS WILL BE PREPARED AT THE RATE OF TWO (2) PER ALTERNATING LIFT PER TRAVEL LANE.

5. CONCRETE SURFACE SHALL RECEIVE A "BROOM FINISH" THAT WILL ADEQUATELY CONVEY WATER OFF THE ROADWAY AND PROVIDE A NON-SKID SURFACE.

6. CONCRETE SHALL EXTEND 3" BEYOND EDGE OF PAVEMENT

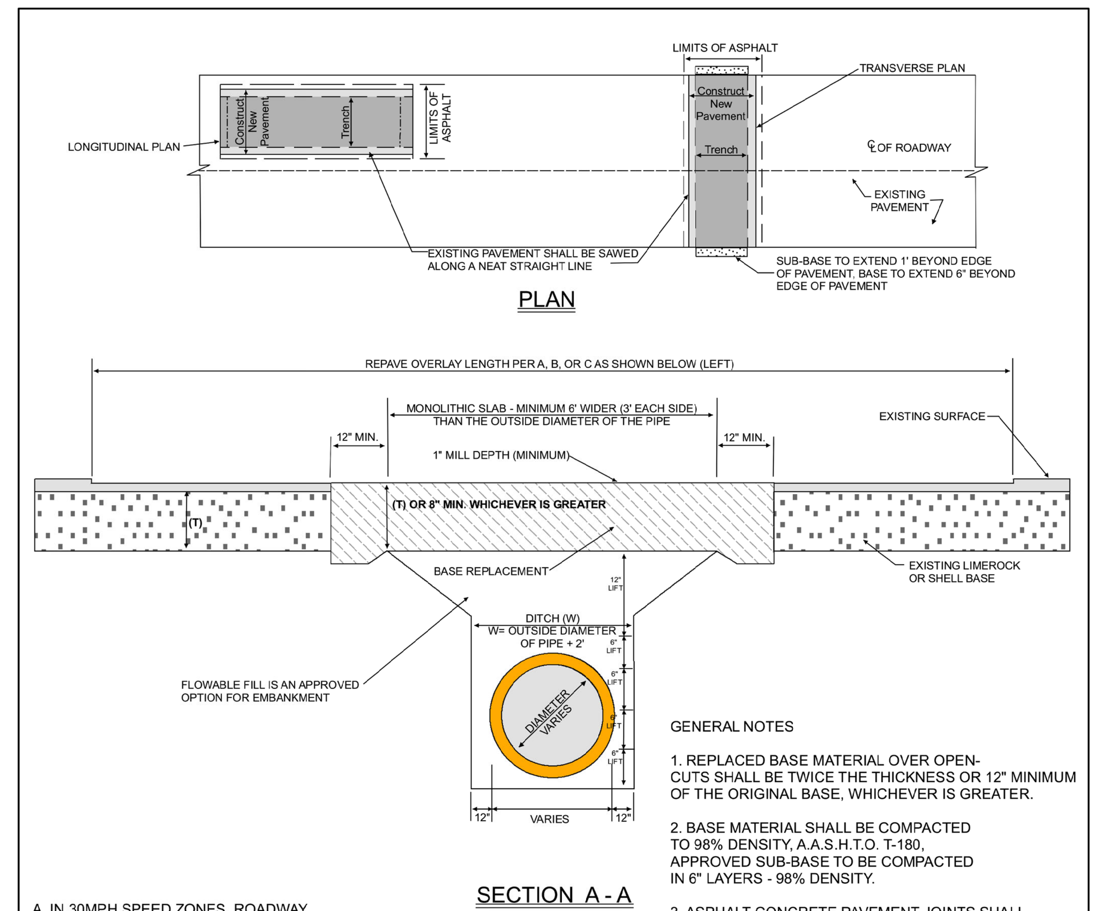
7. ALL STRIPING, REFLECTORS OR OTHER MARKING OBLITERATED OR DAMAGED BY OVERLAYING SHALL BE RESTORED IN ACCORDANCE WITH FDOT STANDARDS AND TO THE STATISFACTION OF CHARLOTTE COUNTY.

* ONLY USED WHERE EXISTING ROADWAY SURFACE CONDITIONS ALLOW, OR WHERE RESURFACING IS TO FOLLOW IMMEDIATELY

TYPICAL SHOWN IS FOR AVERAGE CONDITIONS, FIELD CONDITIONS MAY DICTATE VARIATIONS AS PER COUNTY ENGINEER

CHARLOTTE COUNTY ENGINEERING DESIGN STANDARD

CHARLOTTE COUNTY FLORIDA			STANDARD ROAD DETAIL CONCRETE BASE RESTORATION FOR ROADWAYS WHERE PAVING WILL HAPPEN IMMEDIATELY FOLLOWING RESTORATION	R-5 Sheet 3 of 7



A. IN 30MPH SPEED ZONES, ROADWAY SHALL BE OVERLAYED 20' EITHER SIDE OF DISRUPTED AREA

B. IN 45 MPH SPEED ZONES, ROADWAY SHALL BE OVERLAYED 50' EITHER SIDE OF DISRUPTED AREA

C. IN 55 MPH SPEED ZONES, ROADWAY SHALL BE OVERLAYED 100' EITHER SIDE OF DISRUPTED AREA

TYPICAL SHOWN IS FOR AVERAGE CONDITIONS, FIELD CONDITIONS MAY DICTATE VARIATIONS AS PER COUNTY ENGINEER

GENERAL NOTES

1. REPLACED BASE MATERIAL OVER OPEN-CUTS SHALL BE TWICE THE THICKNESS OR 12" MINIMUM OF THE ORIGINAL BASE, WHICHEVER IS GREATER.

2. BASE MATERIAL SHALL BE COMPACTED TO 98% DENSITY, A.A.S.H.T.O. T-180, APPROVED SUB-BASE TO BE COMPACTED IN 6" LAYERS - 98% DENSITY.

3. ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED COMPLETELY THROUGH.

4. SURFACED TREATED PAVEMENT JOINTS SHALL BE MILLED AND BUTT-JOINED.

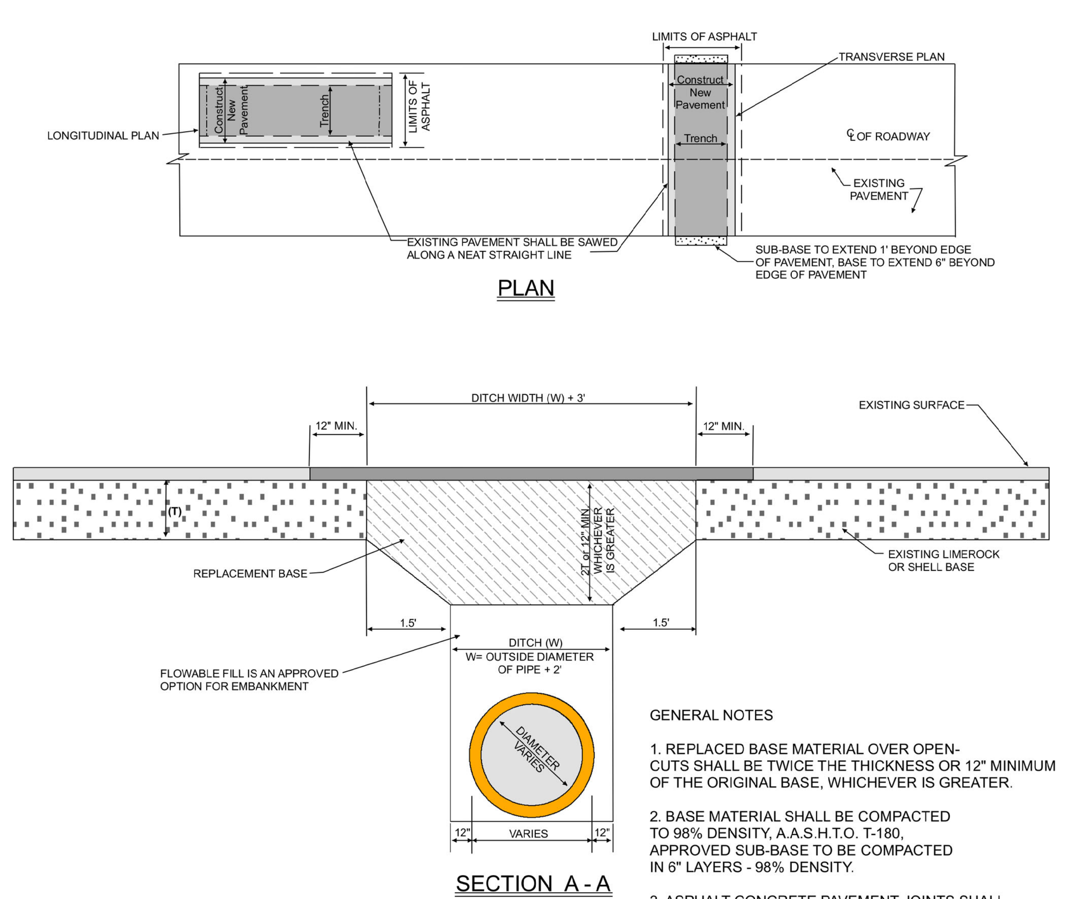
5. SURFACE MATERIAL WILL BE CONSISTENT WITH THE EXISTING SURFACE.

6. RESTORATION OF ALL PAVED AND UNPAVED ROADS SHALL BE RESTORED AS FOLLOWS:
  A. ALL EXCAVATED MATERIALS TO BE REMOVED FROM THE SITE.
  B. BACKFILL WITH VIRGIN MATERIALS OF THE SAME TYPE EXCAVATED IN MAXIMUM DEPTH LIFTS OF 6".

7. ALL STRIPING, REFLECTORS OR OTHER MARKING OBLITERATED OR DAMAGED BY OVERLAYING SHALL BE RESTORED IN ACCORDANCE WITH FDOT STANDARDS AND TO THE SATISFACTION OF CHARLOTTE COUNTY.

CHARLOTTE COUNTY ENGINEERING DESIGN STANDARD

CHARLOTTE COUNTY FLORIDA			STANDARD ROAD DETAIL FLEXIBLE PAVEMENT RESTORATION FOR ROADWAYS WHERE PAVING HAS BEEN DONE WITHIN THE LAST 5 YEARS	R-5 Sheet 4 of 7



GENERAL NOTES

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2. BASE MATERIAL SHALL BE COMPACTED TO 98% DENSITY, A.A.S.H.T.O. T-180, APPROVED SUB-BASE TO BE COMPACTED IN 6" LAYERS - 98% DENSITY.

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6. RESTORATION OF ALL PAVED AND UNPAVED ROADS SHALL BE RESTORED AS FOLLOWS:
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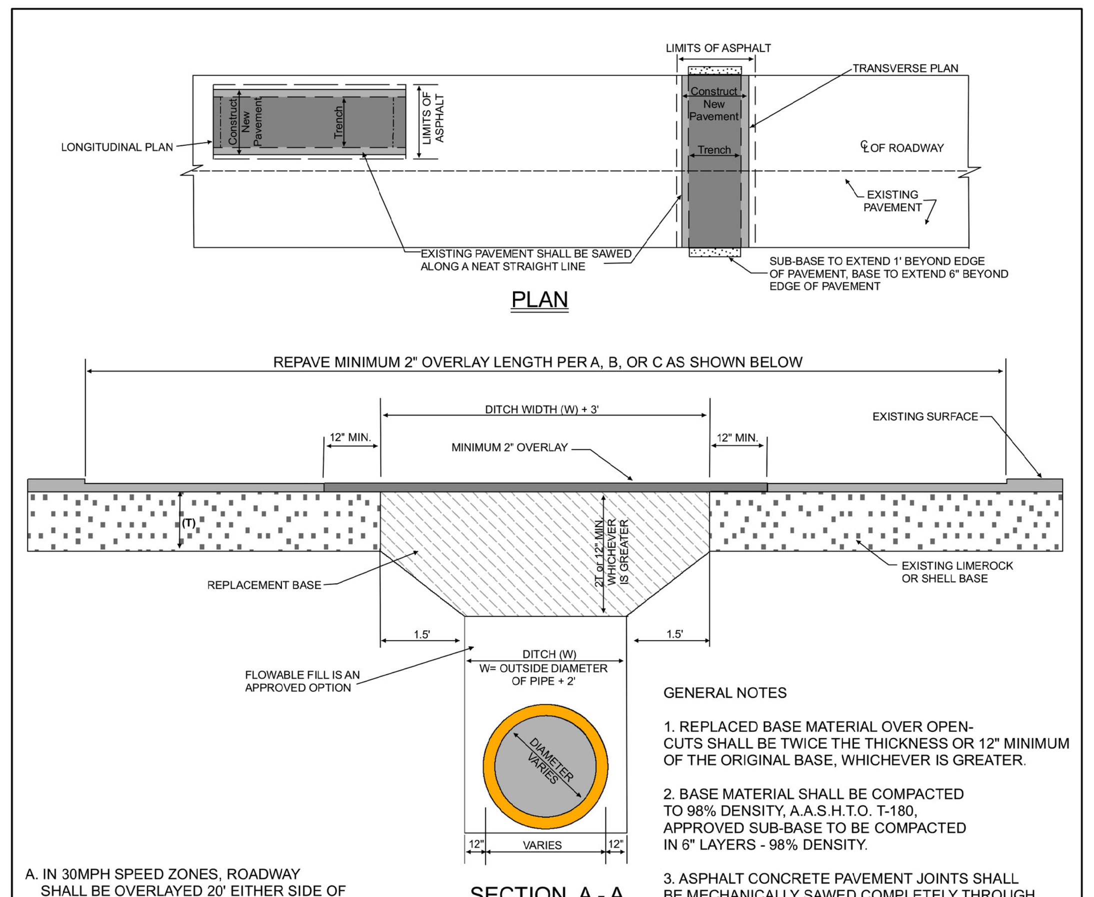
  B. BACKFILL WITH VIRGIN MATERIALS OF THE SAME TYPE EXCAVATED IN MAXIMUM DEPTH LIFTS OF 6".

7. ALL STRIPING, REFLECTORS OR OTHER MARKING OBLITERATED OR DAMAGED BY OVERLAYING SHALL BE RESTORED IN ACCORDANCE WITH FDOT STANDARDS AND TO THE SATISFACTION OF CHARLOTTE COUNTY.

TYPICAL SHOWN IS FOR AVERAGE CONDITIONS, FIELD CONDITIONS MAY DICTATE VARIATIONS AS PER COUNTY ENGINEER

CHARLOTTE COUNTY ENGINEERING DESIGN STANDARD

CHARLOTTE COUNTY FLORIDA			STANDARD ROAD DETAIL FLEXIBLE PAVEMENT RESTORATION WHEN PAVING WILL HAPPEN IMMEDIATELY FOLLOWING RESTORATION	R-5 Sheet 5 of 7



A. IN 30MPH SPEED ZONES, ROADWAY SHALL BE OVERLAYED 20' EITHER SIDE OF DISRUPTED AREA

B. IN 45 MPH SPEED ZONES, ROADWAY SHALL BE OVERLAYED 50' EITHER SIDE OF DISRUPTED AREA

C. IN 55 MPH SPEED ZONES, ROADWAY SHALL BE OVERLAYED 100' EITHER SIDE OF DISRUPTED AREA

TYPICAL SHOWN IS FOR AVERAGE CONDITIONS, FIELD CONDITIONS MAY DICTATE VARIATIONS AS PER COUNTY ENGINEER

GENERAL NOTES

1. REPLACED BASE MATERIAL OVER OPEN-CUTS SHALL BE TWICE THE THICKNESS OR 12" MINIMUM OF THE ORIGINAL BASE, WHICHEVER IS GREATER.

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3. ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED COMPLETELY THROUGH.

4. SURFACED TREATED PAVEMENT JOINTS SHALL BE MILLED AND BUTT-JOINED.

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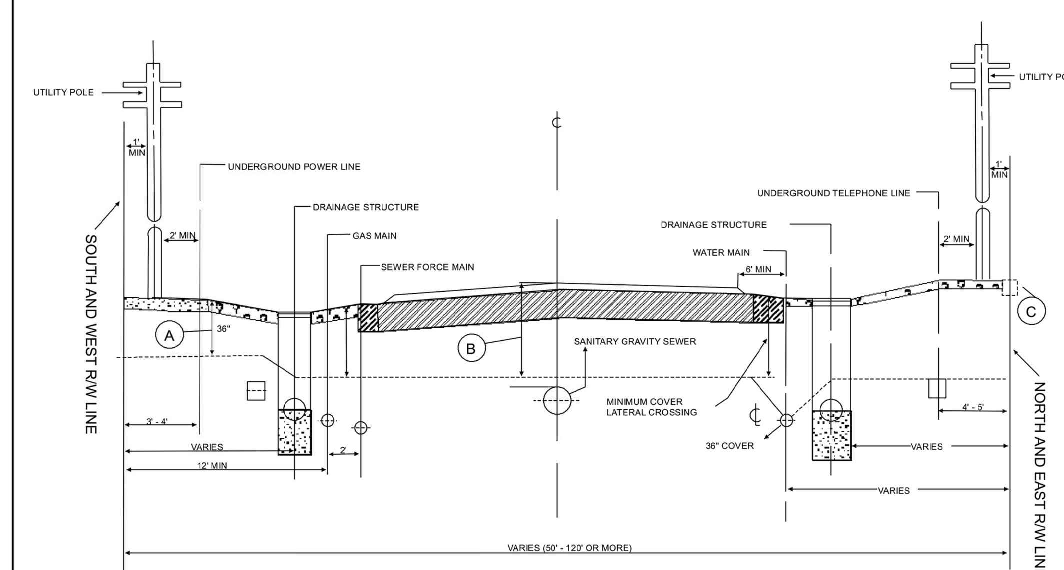
6. RESTORATION OF ALL PAVED AND UNPAVED ROADS SHALL BE RESTORED AS FOLLOWS:
  A. ALL EXCAVATED MATERIALS TO BE REMOVED FROM THE SITE.
  B. BACKFILL WITH VIRGIN MATERIALS OF THE SAME TYPE EXCAVATED IN MAXIMUM DEPTH LIFTS OF 6".

7. ALL STRIPING, REFLECTORS OR OTHER MARKING OBLITERATED OR DAMAGED BY OVERLAYING SHALL BE RESTORED IN ACCORDANCE WITH FDOT STANDARDS AND TO THE SATISFACTION OF CHARLOTTE COUNTY.

8. MINIMUM OF 2" OVERLAY.

CHARLOTTE COUNTY ENGINEERING DESIGN STANDARD

CHARLOTTE COUNTY FLORIDA			STANDARD ROAD DETAIL FLEXIBLE PAVEMENT RESTORATION FOR ROADWAYS THAT HAVE PAVED WITHIN THE LAST 5 YEARS	R-5 Sheet 7 of 7



SECTION A-A

NOTES:

A SANITARY SEWER RESERVATION FOR LATERALS SHALL BE PROVIDED FROM 36" TO 48" BELOW SURFACE GRADE

A) MINIMUM COVER FOR LATERAL NOT CROSSING CENTERLINE

B) MINIMUM COVER FOR SANITARY SEWER IS 30 INCHES

C) WATERLINES AND FORCE MAINS TO BE WITHIN 6' OF EDGE OF PAVEMENT

CHARLOTTE COUNTY ENGINEERING DESIGN STANDARD

CHARLOTTE COUNTY FLORIDA			STANDARD ROAD DETAIL UTILITY PLACEMENT WITHIN A PUBLIC RIGHT-OF-WAY	R-17.1 Sheet 2 of 3

CONSTRUCTION

CHARLOTTE COUNTY
FLORIDA

No.	DESCRIPTION	DATE	BY

DESIGNED BY: MMK | DWN BY: MMK | CKD BY: BRB
DATE: 2022-06-01 | S-T-R S07-T40S-R22E | PROJECT NO. 21-0003
DATUM: NAVD 1988 | SCALE: NTS | PLOT DATE: 2022-06-01
FILE LOCATION: Z:\Auto Cad R14\CURRENT-PROJECTS_ACTIVE\2022\22-0020 Woodbury LS Inlet Replacement\CAD\Production Drawings
SIZE: | FILE NUMBER 22-0020 DETAILS_MK.dwg

CHARLOTTE COUNTY UTILITIES
25550 HARBOR VIEW RD.
PORT CHARLOTTE FL 33980
PH:941-764-4516
FAX: 941-764-4969

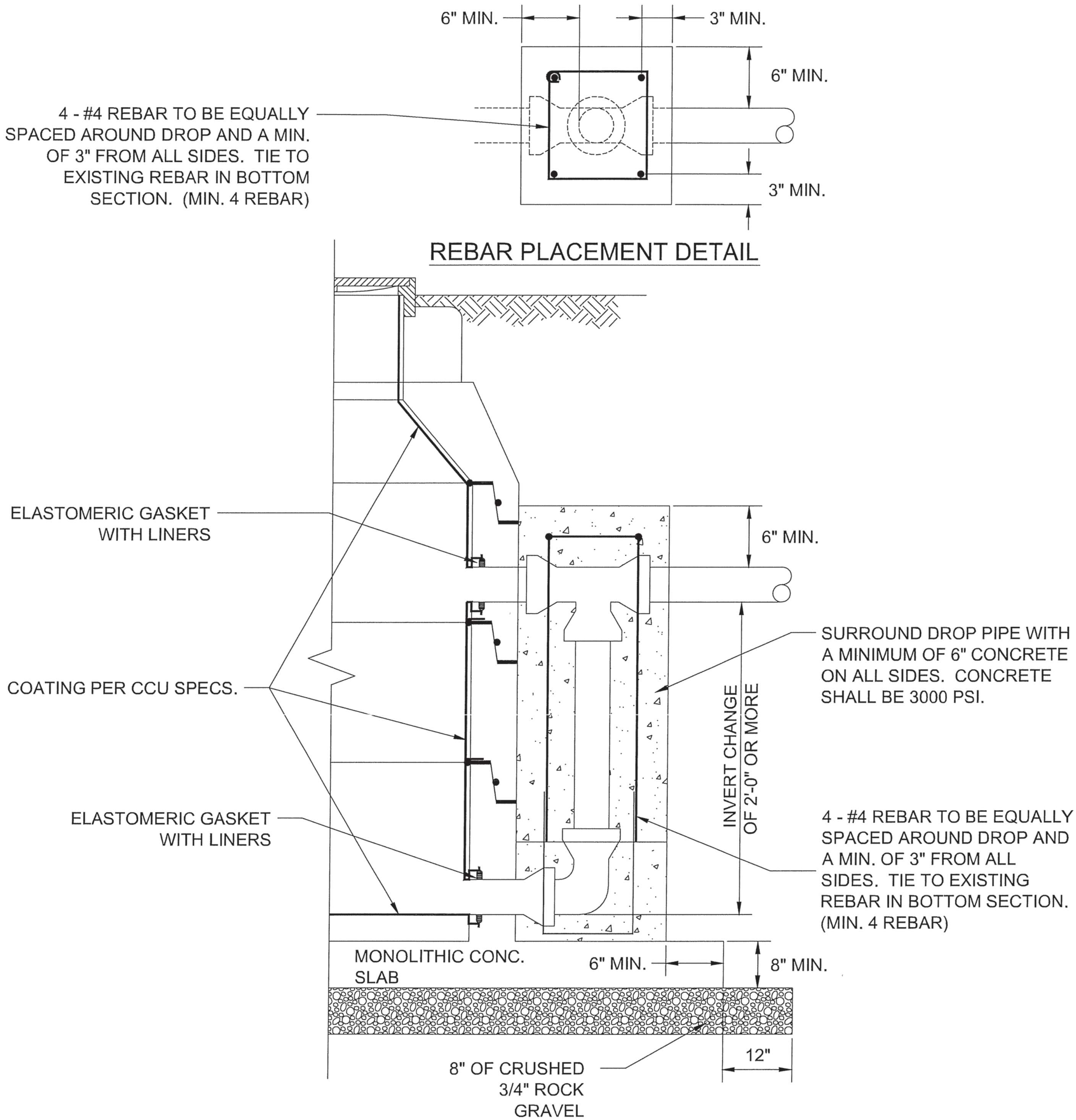
KENNETH E. STECHER
LICENSE
No. 90719
STATE OF FLORIDA
PROFESSIONAL ENGINEER

DATE:

22-0020 WOODBURY
LIFT STATION #45
MAIN INLET REPLACEMENT

DETAILS-2

SHEET
5



NOTE:

1. PROVIDE 1% SLOPE THROUGH MANHOLE.

DATE: 11/01/2011	OUTSIDE DROP MANHOLE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GS-03
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GS-03-OSDMH.dwg

Z:\Auto Cad R14\DETAILS\2012 Details\03.GRAVITY SEWER\GS-03-OSDMH.dwg