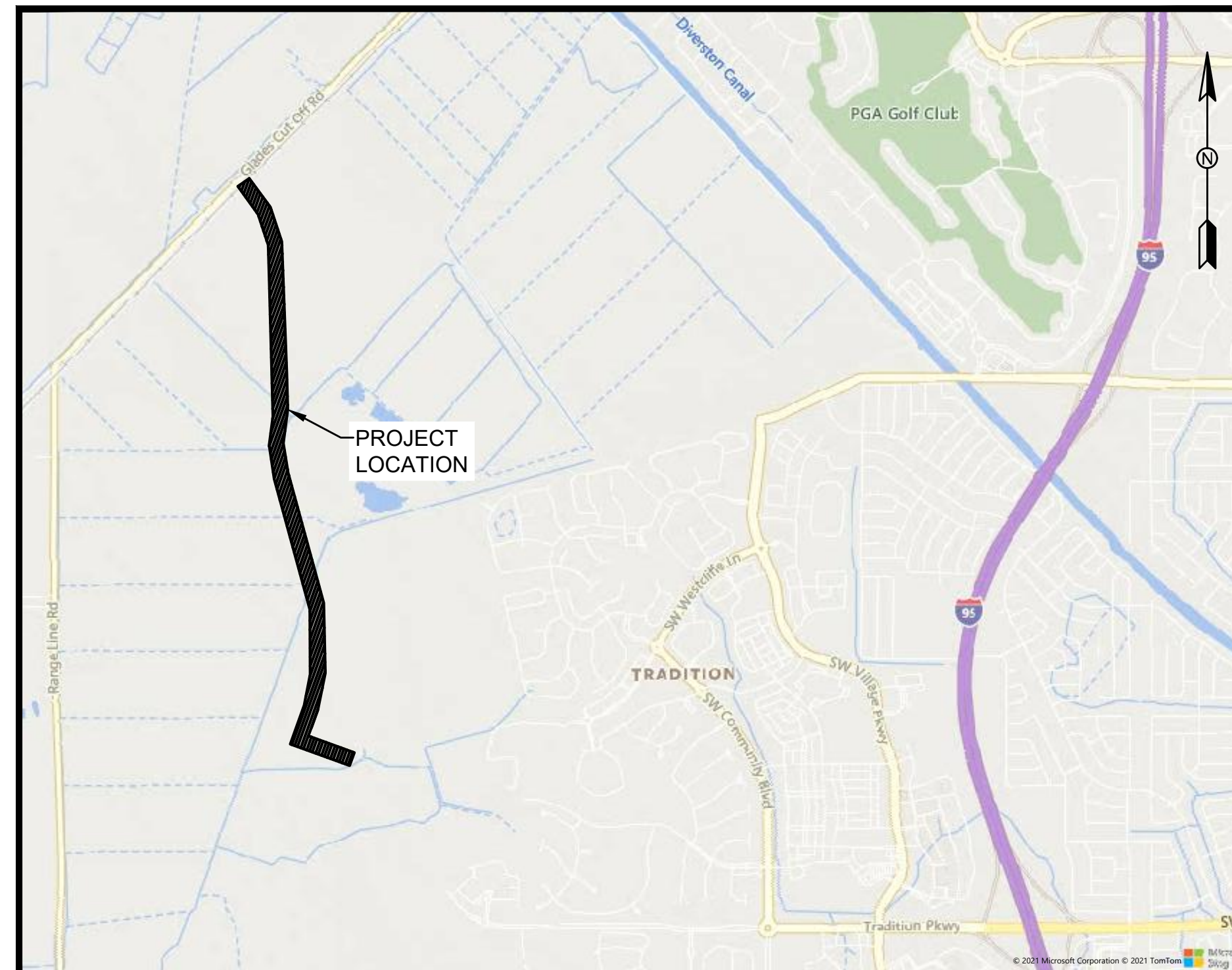
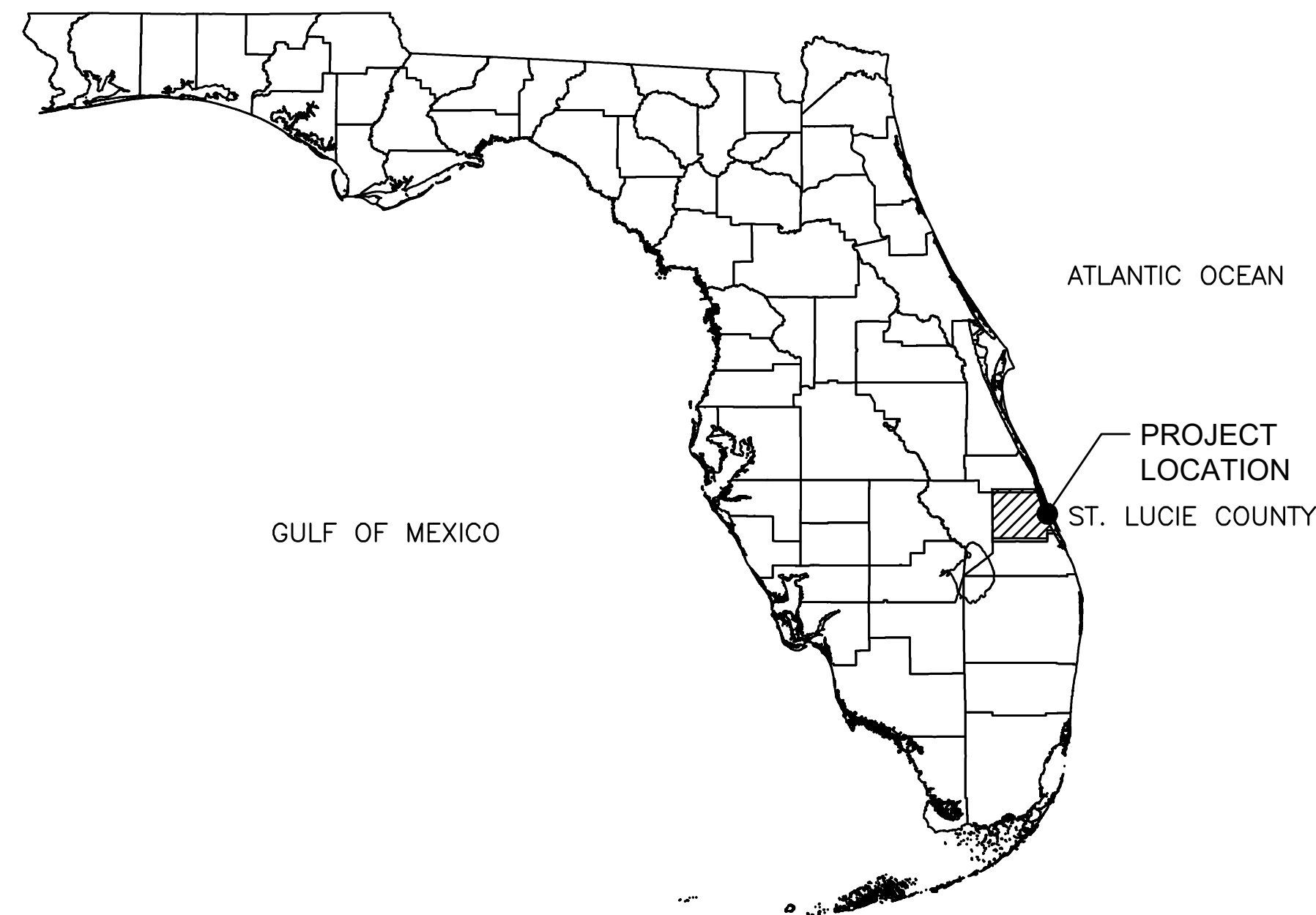


GLADES TO TRADITION REUSE WATER MAIN

PREPARED FOR
CITY OF PORT ST. LUCIE
ST. LUCIE COUNTY, FLORIDA
SECTION 31, 5-8, TOWNSHIP 36S, 37S, RANGE 39E



VICINITY MAP

NTS



CITY OF PORT ST. LUCIE
UTILITY SYSTEMS DEPARTMENT
900 S.E. OGDEN LANE
PORT ST. LUCIE, FL 34983
PHONE (772) 873-6400
FAX (772) 873-6433

JANUARY 2022
PSLUSD PROJECT No: 25-0032

BRAD MACEK UTILITY DIRECTOR

SHEET INDEX

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D-2	CROSS SECTIONS

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HCE 607 SW ST. LUCIE CRESCENT, SUITE 103
STUART, FLORIDA 34994
PH. (772) 919-4905 Cert. No. 26960

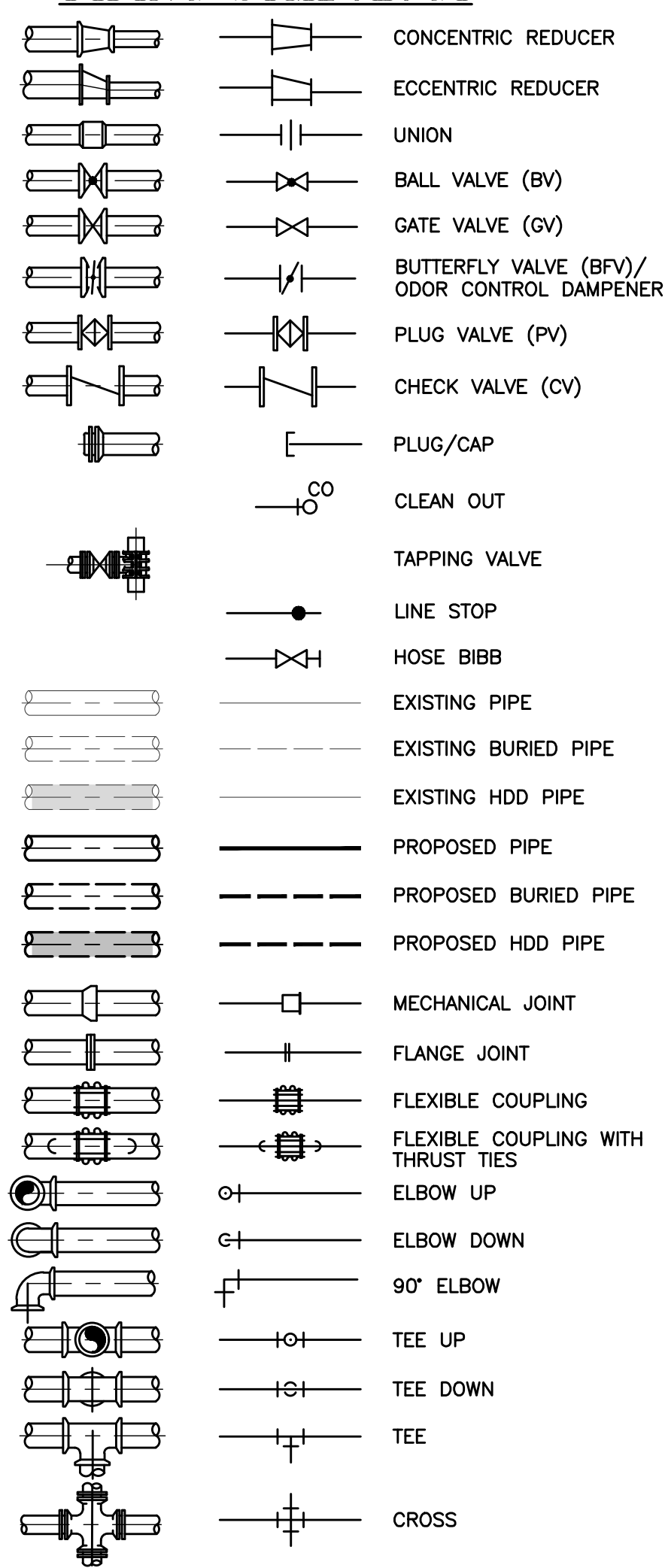
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License No: 65685

G-1

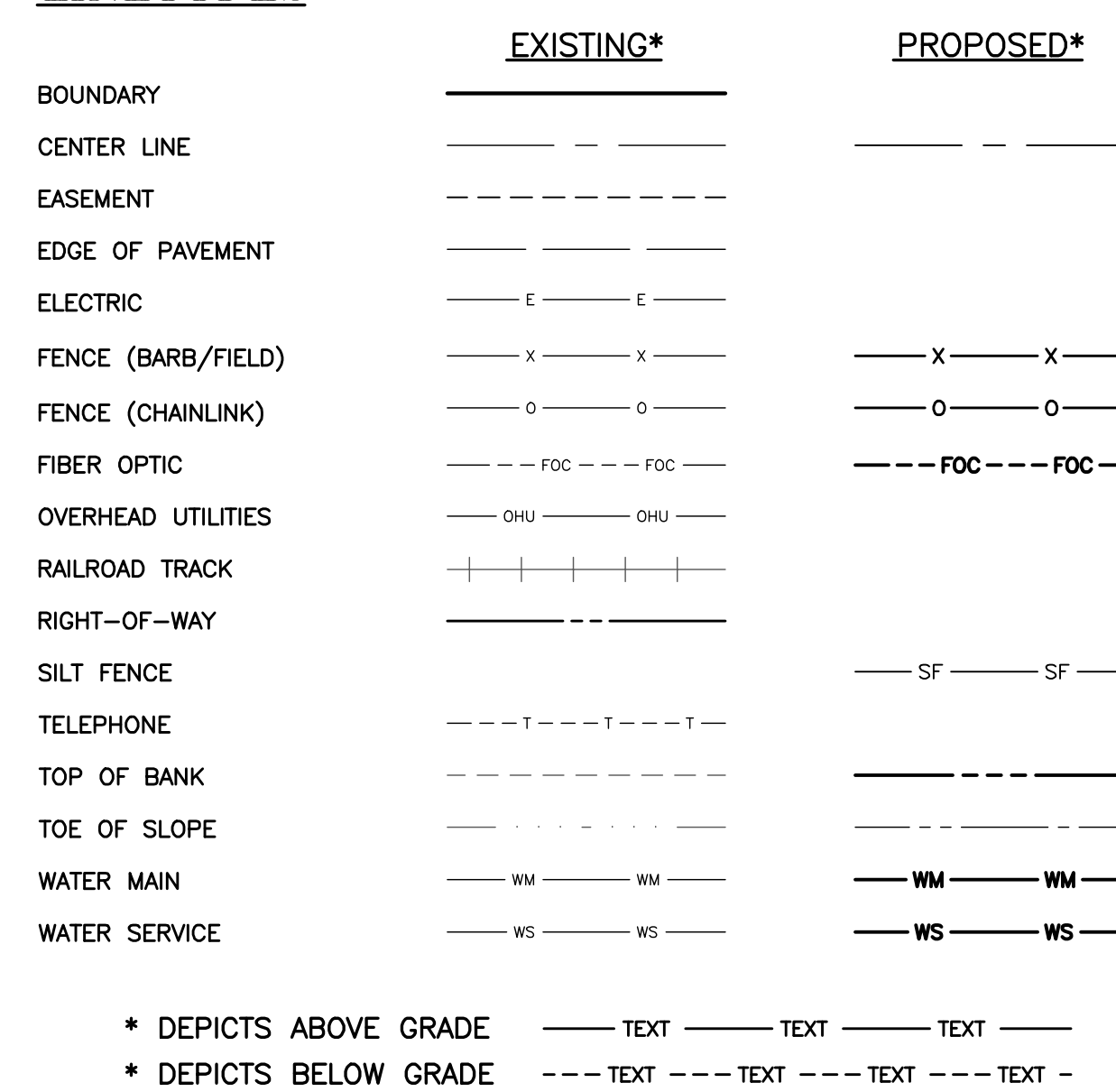
GENERAL ABBREVIATIONS

ABND	Abandon or Abandoned	LS	Lift Station
ACP	Asbestos Cement Pipe	LSA	Landscape Area
ADD'L	Additional	MAX	Maximum
AL, Alum	Aluminum	MB	Mailbox
APPROX	Approximate	MECH	Mechanical
ARV	Air Release Valve	MH	Manhole
ASP, Asph	Asphalt	MIN	Minimum
		MISC	Miscellaneous
		MJ	Mechanical Joint
BFP	Backflow Preventer	N/D	Nail and Disk
BFV	Butterfly Valve	No	No
B/L	Base Line	NTS	Not to Scale
BLDC	Building		
BM	Benchmark	OC, O/C	On Center Outside Diameter
BO	Blowoff	OD	Outside Diameter
BOP	Bottom of Pipe	OHW	Overhead Wire
		ORB	Official Records Book
CATV	Cable Television	PB	Plat Book
CB	Catch Basin	PE	Polyethylene Piping
CO	Cleanout	PGL	Profile Grade Line
CL	Center Line	PVC	Polyvinyl Chloride/Polyvinyl Chloride Pipe
CLF	Chain Link Fence	RC	Reinforced Concrete
CIP	Cast Iron Pipe / Cast in Place	RCP	Reinforced Concrete Pipe
CMP	Corrugated Metal Pipe	RCW	Reclaimed Water Reducer
CONC	Concrete	REINF	Reinforce/Reinforced
CONST	Construct/Construction	RJ	Restrained Joint
		RWM	Raw Water Main
		R/W, ROW	Right of Way
DE	Drainage Easement	S=	Slope (FT/FT)/(Rise/Run)
DI	Ductile Iron	SAN	Sanitary
DIP	Ductile Iron Pipe	SCH/SCHED	Schedule
DIA	Diameter	SEC	Section
DR	Dimensional Ratio/Drainage	SF	Silt Fence
DWY	Driveway	SP	Sample Point
		SS	Sanitary Sewer Station
		STA	Station
EL	Elevation	TBM	Temporary Benchmark
EP	Edge of Pavement	TEMP	Temporary
ESMT	Easement	TOB	Top of Bank
EOW	Edge of Water	TON	Top of Nut
EX, EXIST	Existing	TOP	Top of Pipe
		TOS	Toe of Slope
		TYP	Typical
FDOT	Florida Department of Transportation	UE	Utility Easement
FH	Fire Hydrant	UEC	Underground Electric Conduit
FL	Flanged	UGE	Underground Electric
FM	Force Main	UGT	Underground Telephone
FND	Found	UNK	Unknown
FNPT	Female Nominal Pipe Thread		
FPL	Florida Power and Light	W/	With (Combined Form)
FW	Finished Water	WF	Wood Fence
		WM	Water Main or Water Meter
		WPB	Wire Pullbox
		WTP	Water Treatment Plant
GPS	Global Positioning System	WV	Water Valve
GV	Gate Valve	WWTP	Waste Water Treatment Plant
HB	Hose Bibb		
HDD	Horizontal Directional Drill		
HDPE	High Density Polyethylene		
HYD	Hydrant		
ID	Identification/Inside Diameter		
INV	Invert/Invert Elevation		
IRC	Iron Rod & Cap		
IRR	Irrigation		
LAE	Limited Access Easement		
LF	Linear Feet		
LP	Light Pole		
LPF	Low Pressure Force Main		

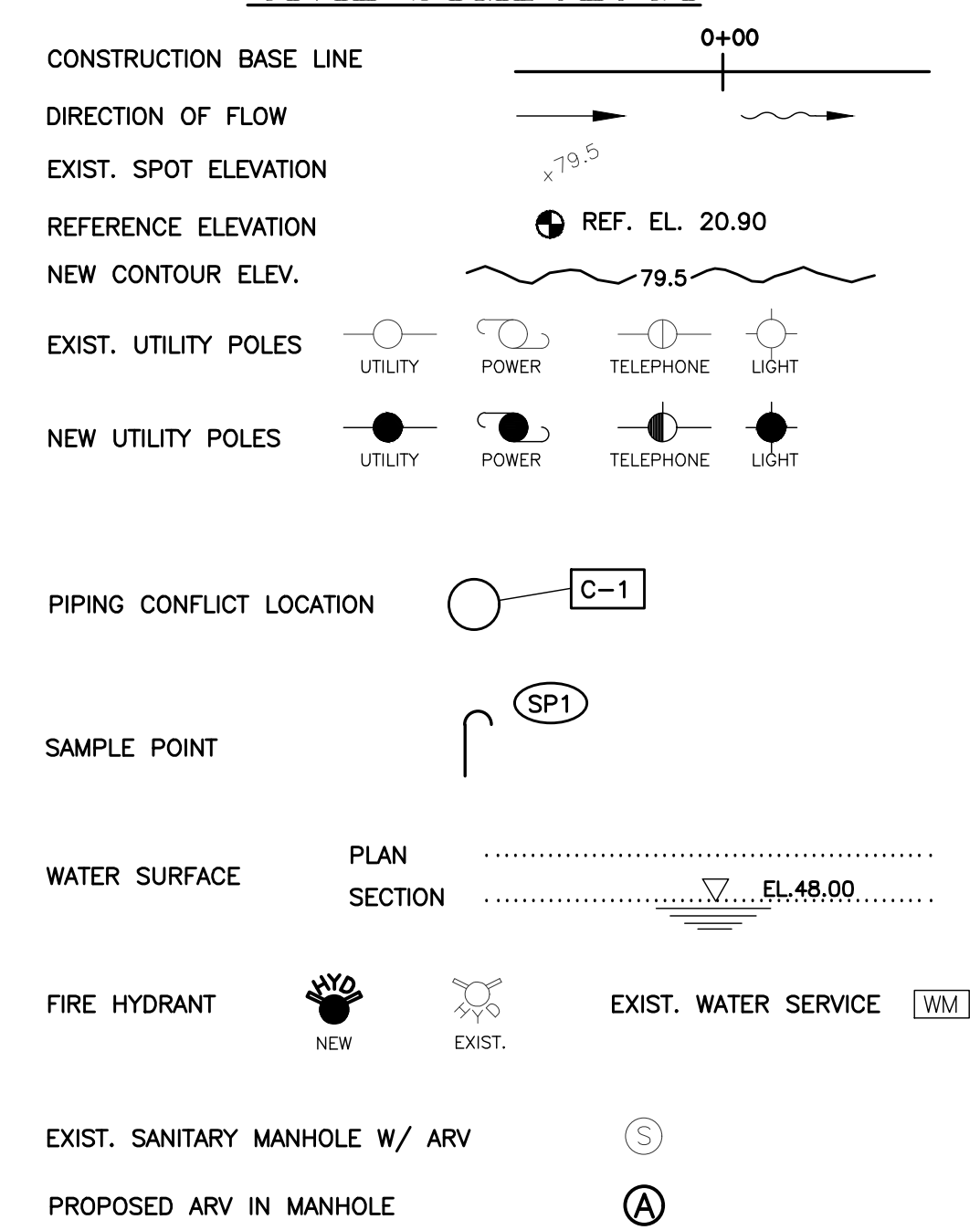
PIPING SYMBOLOGY



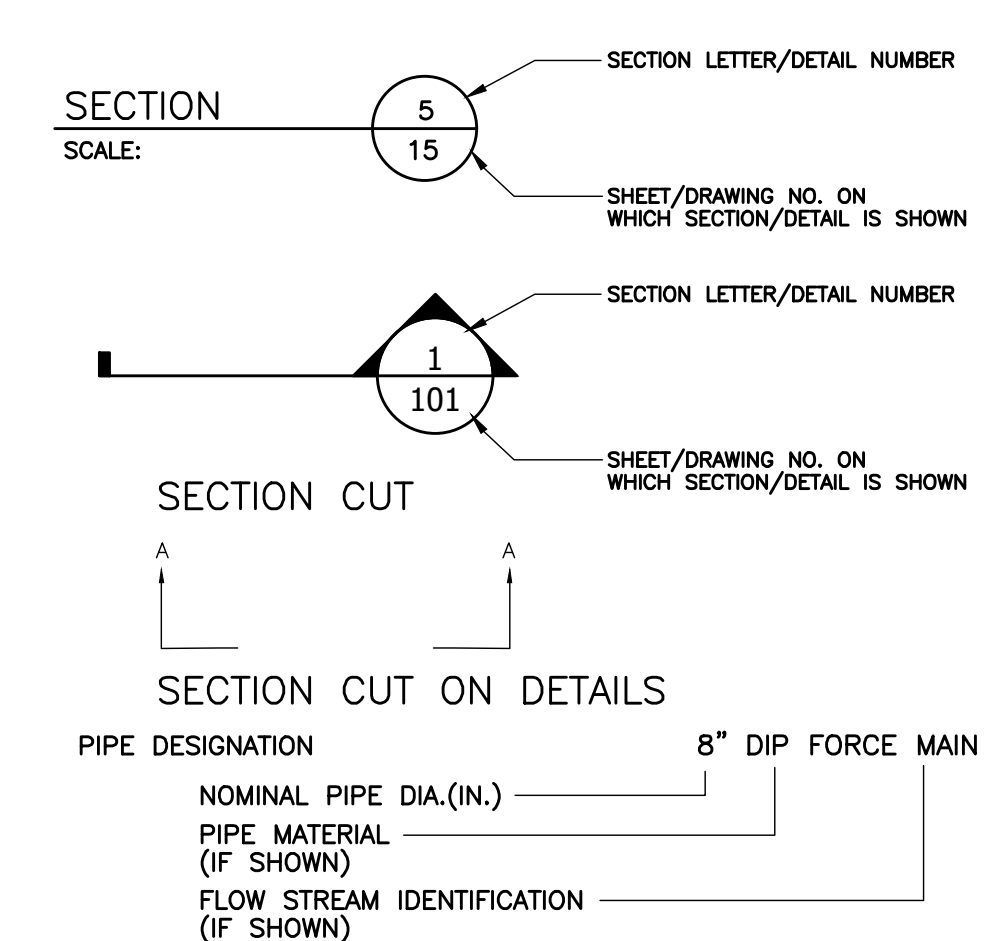
LINETYPES



CIVIL SYMBOLOGY



SECTION/DETAIL SYMBOL



Symbols:

#	Pounds/Number
<	Angle
Ø	Round/Diameter

SURVEY NOTES

1. THE BEARINGS AS SHOWN HEREON ARE BASED ON STATE PLANE COORDINATES, NORTH AMERICAN DATUM OF 1983/1990 (N.A.D. 83/90), FLORIDA EAST ZONE.
2. ELEVATIONS AS SHOWN HEREON REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), REFERENCE THE BENCHMARKS AS SHOWN ON DRAWINGS. ELEVATIONS AS SHOWN HAVE BEEN MEASURED TO AN ESTIMATED VERTICAL POSITIONAL ACCURACY OF 0.10 FEET.
3. TO CONVERT NAVD88 TO NGVD29 ADD 1.45 FT.
4. THE LINWORK AND RECORDING INFORMATION FOR EASEMENTS, RIGHT OF WAYS, SECTION LINES, PROPERTY LINES, BASELINE, ETC. WERE TAKEN FROM DIGITAL FILES PROVIDED BY FELIX AND ASSOCIATES FOR THE CITY OF PORT ST. LUCIE, FLORIDA. REFERENCE DRAWINGS: GLADES BOOSTER PUMP STATION FORCE MAIN, REFERENCE PROJECT NO. 20050064-BM, AMENDMENT NO. 3, VOLUME III, LAST DATED 9/26/06 AND FOR THE RANGELINE ROAD WATER TRANSMISSION MAIN AND WASTEWATER FORCE MAIN, REFERENCE PROJECT NO. 20050151, VOLUME IV, LAST DATED 12/14/06. THE EXISTING UTILITIES WERE TAKEN FROM A RECORD SURVEY PERFORMED BY BETSY LINDSAY, INC. FOR THESE PROJECTS, REFERENCE PROJECT NO. 06-77, LAST DATED MARCH 4, 2008.
5. WELL-IDENTIFIED FEATURES IN THIS SURVEY AND MAP HAVE BEEN MEASURED TO AN ESTIMATED HORIZONTAL POSITIONAL ACCURACY OF 0.10 FEET.
6. THIS SURVEY WAS DONE IN THE FIELD UTILIZING GLOBAL POSITIONING SYSTEM (G.P.S.) WITH REAL TIME KINEMATIC (R.T.K.), ALL DISTANCES GIVEN ARE GRID DISTANCES. THE SCALE FACTOR IS 0.999975452.

ENVIRONMENTAL NOTES

1. TOTAL WETLAND DISTURBANCE = 0.00 ACRES
2. EXISTING ROADWAY AND EASEMENT ACCESS POINTS WILL BE USED FOR PROJECT ACCESS. NO ACCESS IS PROPOSED THROUGH WETLAND AREAS.
3. HORIZONTAL DIRECTIONAL DRILL IS PROPOSED FOR CROSSING OF WETLAND AND SURFACE WATERS ALONG THE PROJECT ROUTE. PROPOSED PIPE COVER WILL EXCEED 5 FEET OR 5X OUTSIDE PIPE DIAMETER IN THESE LOCATIONS.

Drawing Name: C:\Users\pshelton\Documents\Projects\City of Port St. Lucie\GIS\Drawings\Map\Utility\Drawings\GSD\REUSE MAIN\GSD\REUSE MAIN.dwg
 Layout Name: General Legend
 Date: 7/24/2022 9:38 AM
 Author: Matt Consulting Engineers

DATE	BY	REVISIONS

Date:	10-27-21
Scale:	AS NOTED
Design By:	BF
Drawn By:	RR
Check By:	DH

CITY OF PORT ST. LUCIE
GLADES TO TRADITION
REUSE WATER MAIN

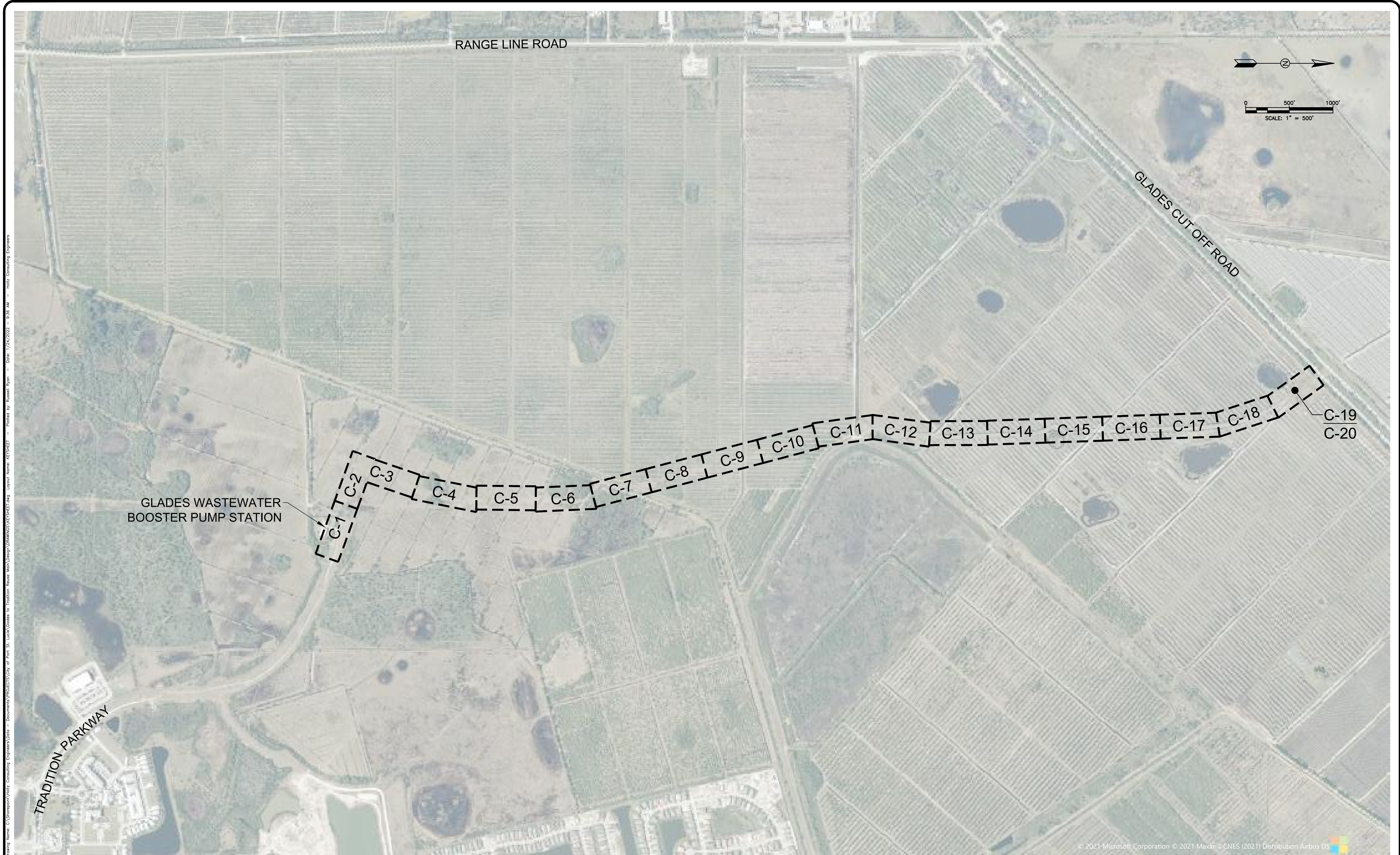
GENERAL NOTES AND LEGEND

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 Cert. No. 26960

CURTIS D. ROBINSON, P.E.
 License No: 65685

G-2





Drawing Name: C:\Shorepoint\Holtz Consulting Engineers\Users\rr\Documents\PROJECTS\City of Port St. Lucie\Glades to Tradition\Reuse Water Main\Drawings\KEYSHEET.dwg Layout Name: KEYSHEET Plotted by: Russell Ryan Date: 1/27/2022 9:38 AM HCE Consulting Engineers

DATE	BY	REVISIONS

Date: 8-31-21
 Scale: AS NOTED
 Design By: BF
 Drawn By: RR
 Check By: DH

CITY OF PORT ST. LUCIE
GLADES TO TRADITION
REUSE WATER MAIN

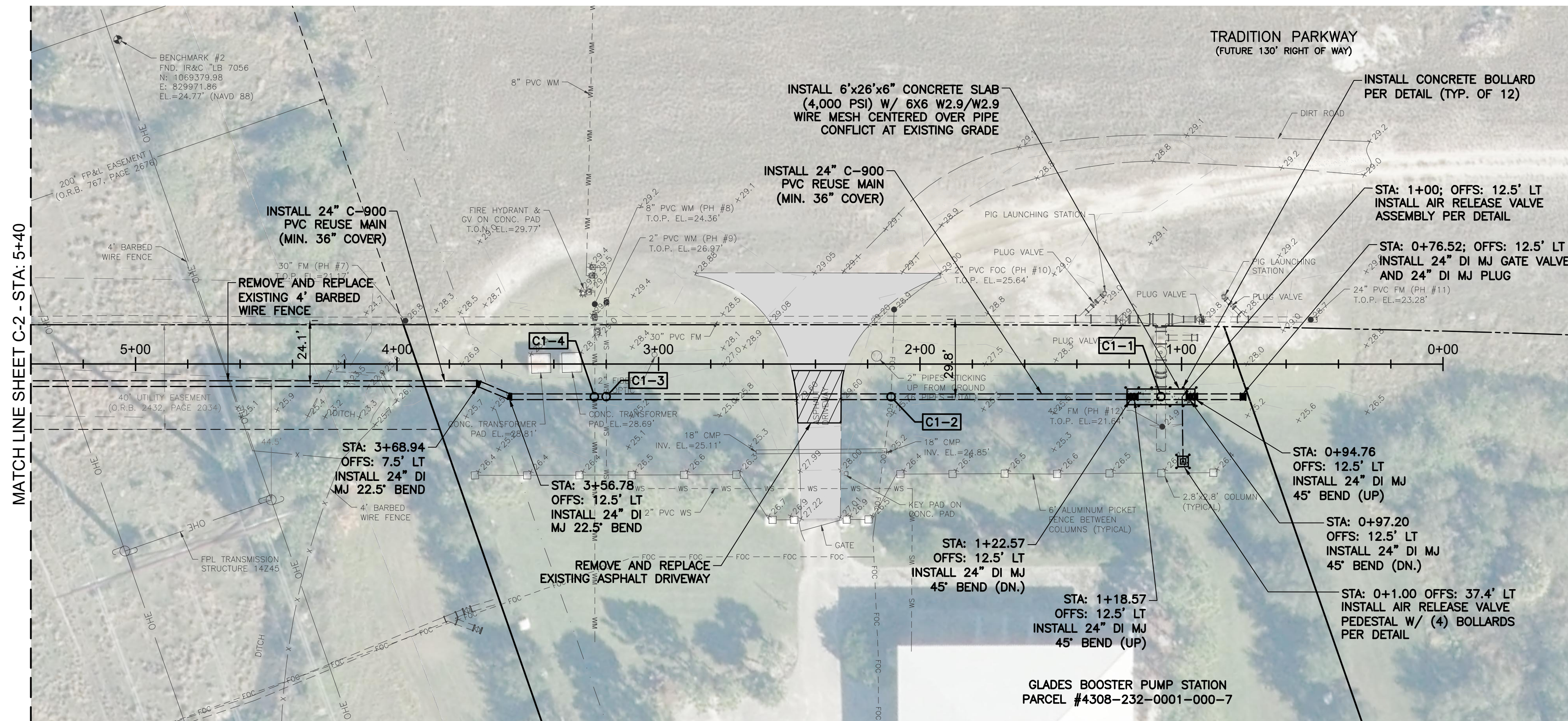
KEYSHEET

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CURTIS D. ROBINSON, P.E.
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G-3

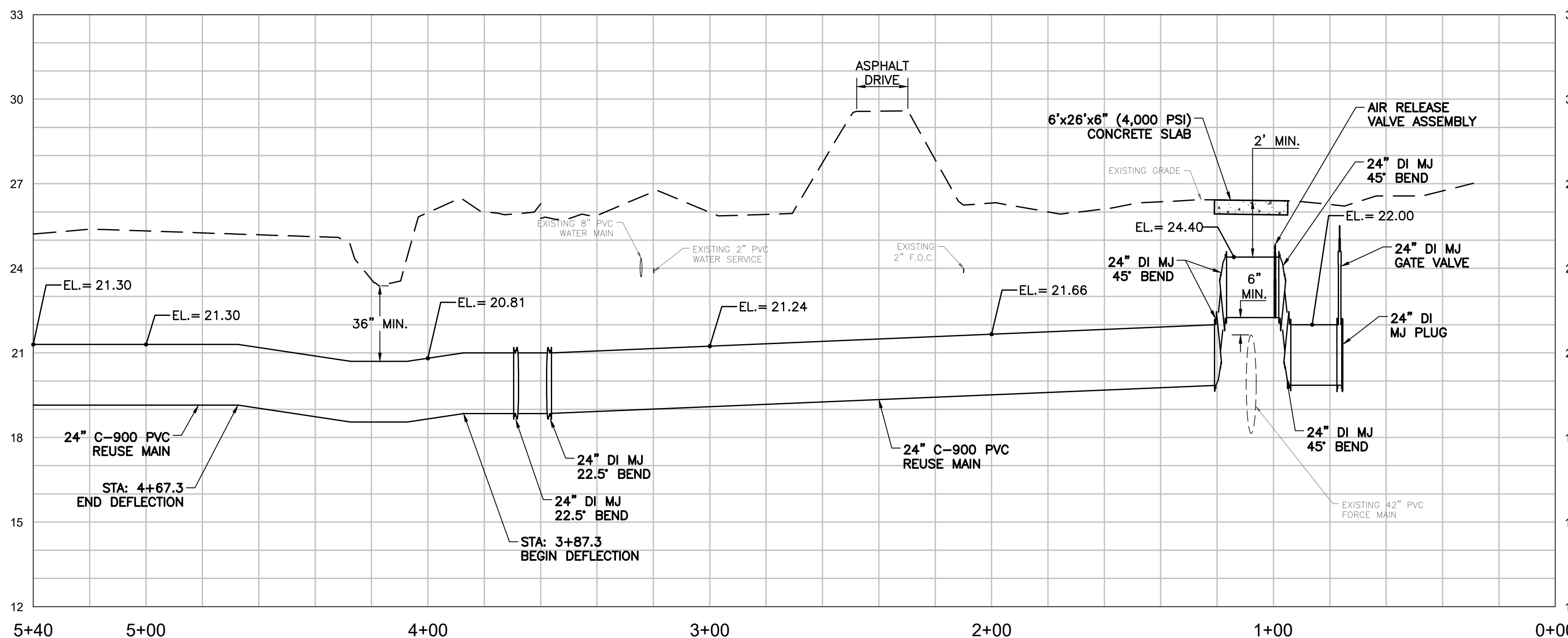


HATCH LEGEND

	EXISTING ASPHALT
	EXISTING DIRT ROAD
	TO BE REMOVED AND REPLACED

REUSE WATER MAIN CROSSING TABLE

CONFLICT	CONFLICT PIPE	ELEVATION	PROPOSED RWM	UNDER/OVER	CLEARANCE	ELEVATION
C1-1	42" FM	TOP 21.6	24" PVC	OVER	0.7'	BOP 22.3
C1-2	2" FOC	BOP 23.8	24" PVC	UNDER	2.2'	TOP 21.6
C1-3	2" WS	BOP 23.8	24" PVC	UNDER	2.6'	TOP 21.2
C1-4	8" WM	BOP 23.7	24" PVC	UNDER	2.5'	TOP 21.2



PROFILE VIEW - STA: 0+00 TO STA: 5+40
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: 1"=3'

NOTES:

- THE LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AND ARE BASED UPON LIMITED RECORD DRAWING INFORMATION, GIS, AND SURFACE SURVEY. CONTRACTOR SHALL VERIFY EXISTING HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITY CROSSINGS AND FOR UTILITIES IN CLOSE PROXIMITY OF PROPOSED PIPING. PROTECT AND TEMPORARILY SUPPORT ALL UTILITIES WITHIN EXCAVATION DURING THE WORK IN ADDITION TO PROTECTING UTILITIES BELOW DRILLING EQUIPMENT FROM DAMAGE.
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- PROPOSED REUSE WATER MAIN SHALL HAVE A MINIMUM 36" COVER UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL ADEQUATELY RESTRAIN ALL EXISTING VALVES, FITTINGS, PIPES, AND APPURTENANCES AS NECESSARY TO MAKE CONNECTIONS AT NO ADDITIONAL COST TO THE OWNER.



KEY MAP

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REV	DATE	REVISIONS	BY

Date: 10-27-21
 Scale: AS NOTED
 Design By: BF
 Drawn By: RR
 Check By: DH

CITY OF PORT ST. LUCIE
GLADES TO TRADITION
REUSE WATER MAIN

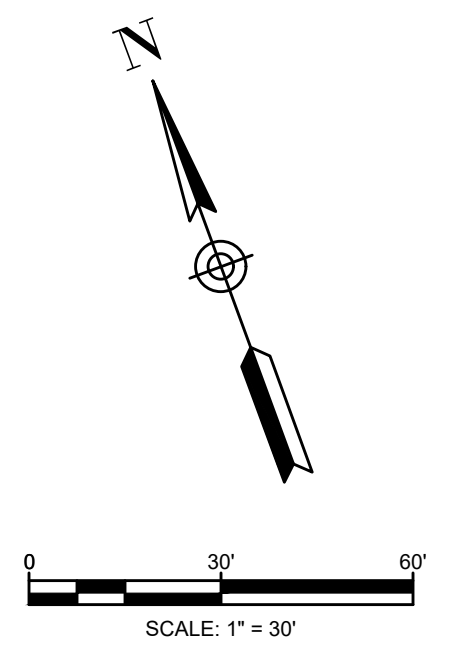
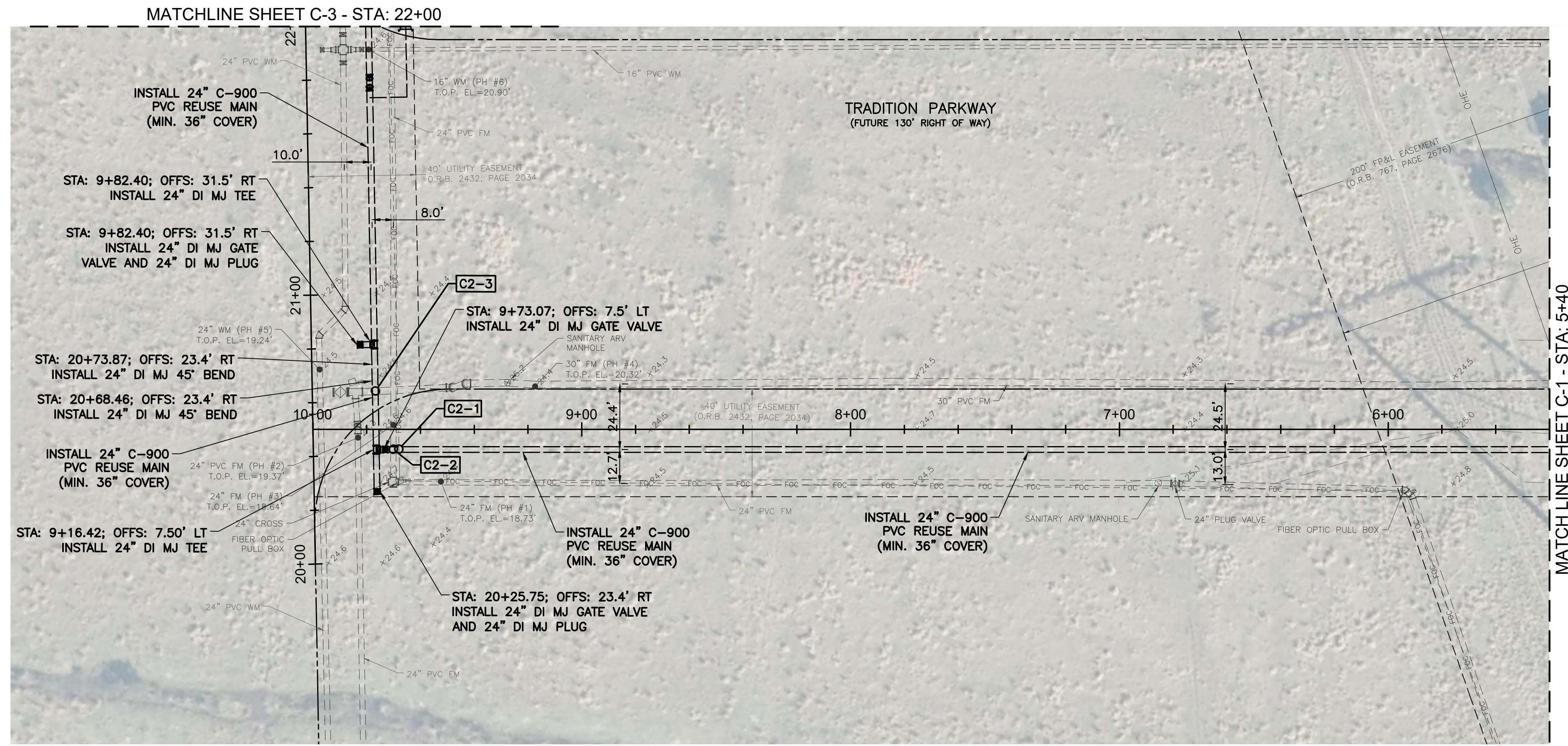
PLAN AND PROFILE
STA: 0+00 TO STA: 5+40

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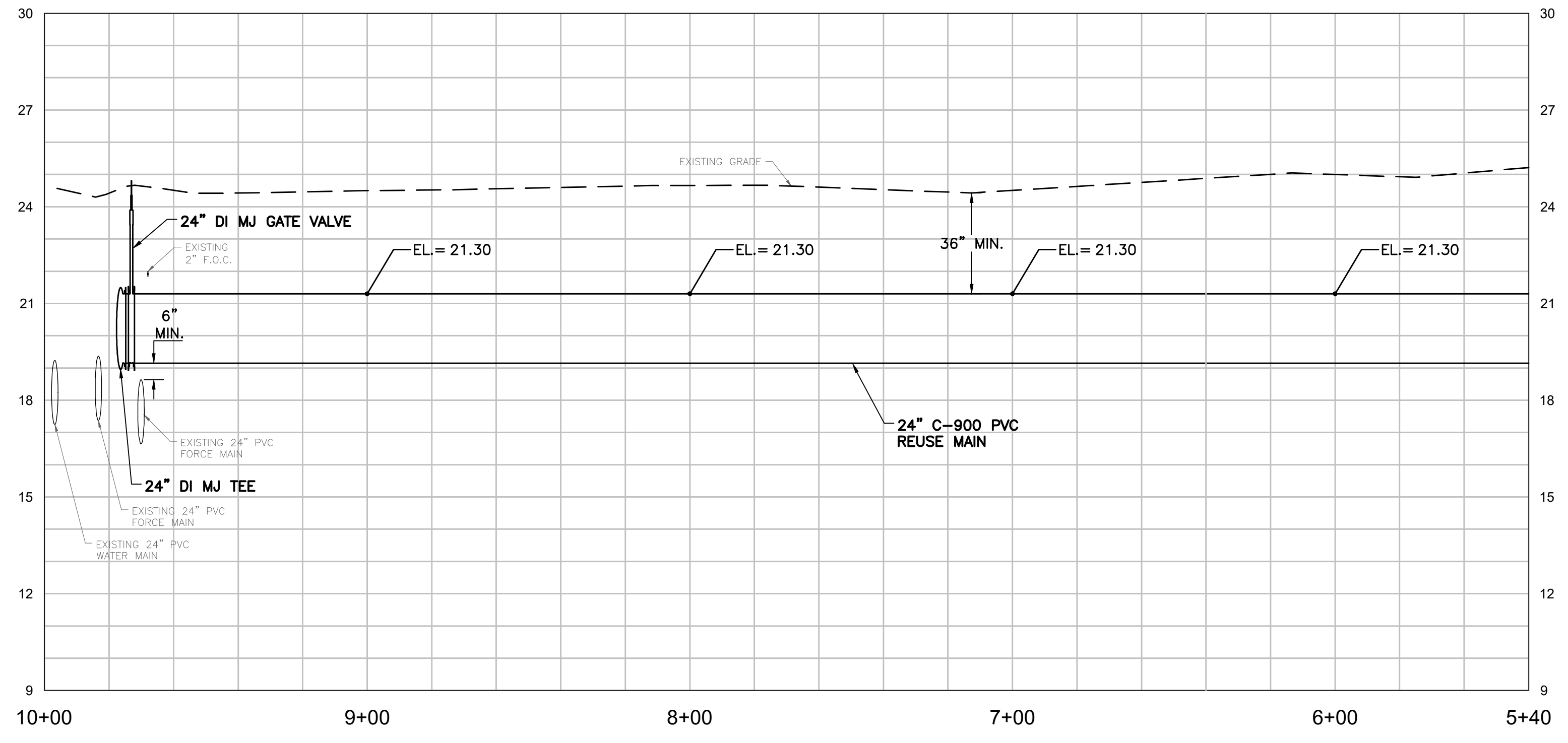
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 Cert. No. 26960

CURTIS D. ROBINSON, P.E.
 License No: 65685

C-1



REUSE WATER MAIN CROSSING TABLE						
CONFLICT	CONFLICT PIPE	ELEVATION	PROPOSED RWM	UNDER/OVER	CLEARANCE	ELEVATION
C2-1	2" FOC	BOP 21.8	24" PVC	UNDER	0.8'	TOP 21.0
C2-2	24" FM	TOP 18.6	24" PVC	OVER	0.6'	BOP 19.2
C2-3	30" FM	TOP 14.5	24" PVC	OVER	4.4'	BOP 18.9



PROFILE VIEW - STA: 5+40 TO STA: 10+00
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 VERTICAL SCALE: 1"=3'

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KEY MAP

Date: 10-27-21
 Scale: AS NOTED
 Design By: BF
 Drawn By: RR
 Check By: DH
 Project Name: CITY OF PORT ST. LUCIE, FLORIDA - GLADES TO TRADITION REUSE WATER MAIN
 Project Location: 607 SW ST. LUCIE CRESCENT, SUITE 103, STUART, FLORIDA 34994
 Project No: 26960
 Date: 1/24/2022 9:38 AM
 Printed by: Russell Ryan
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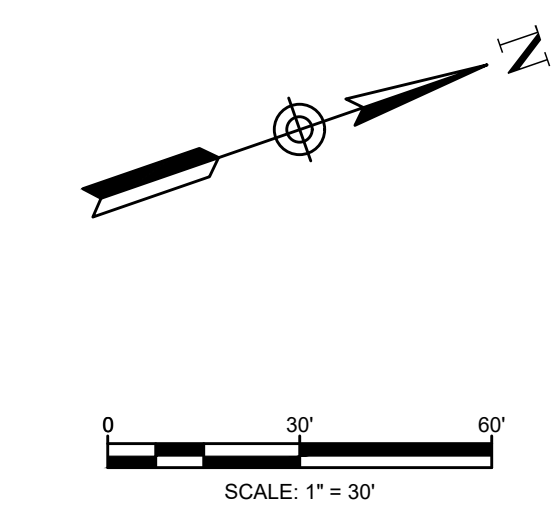
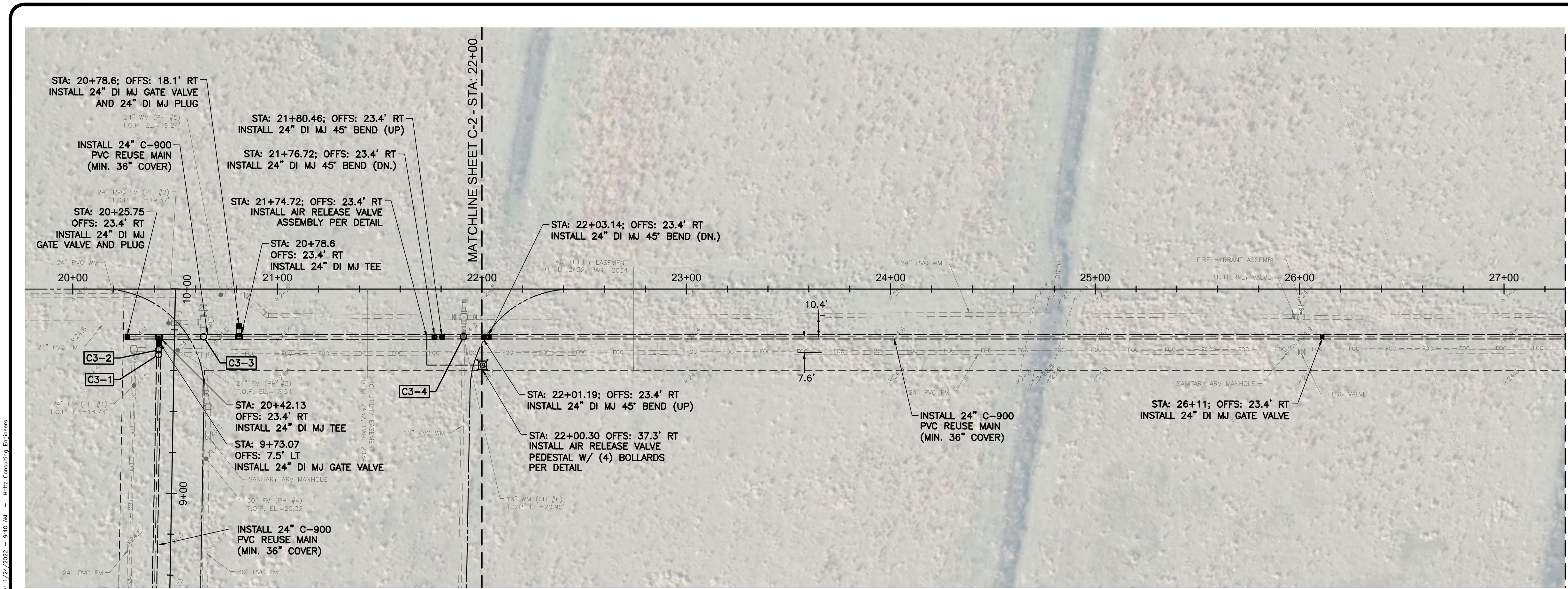
CITY OF PORT ST. LUCIE
 GLADES TO TRADITION
 REUSE WATER MAIN

PLAN AND PROFILE
 STA: 5+40 TO STA: 10+00
 STA: 20+00 TO STA: 22+00

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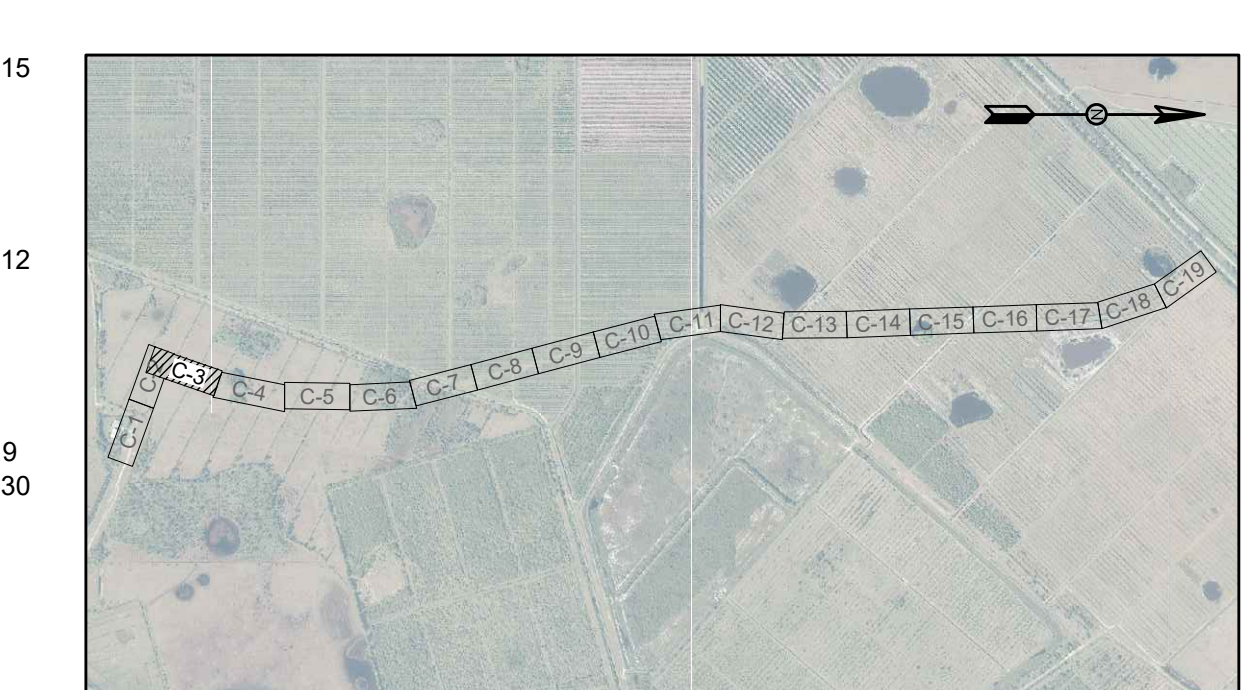
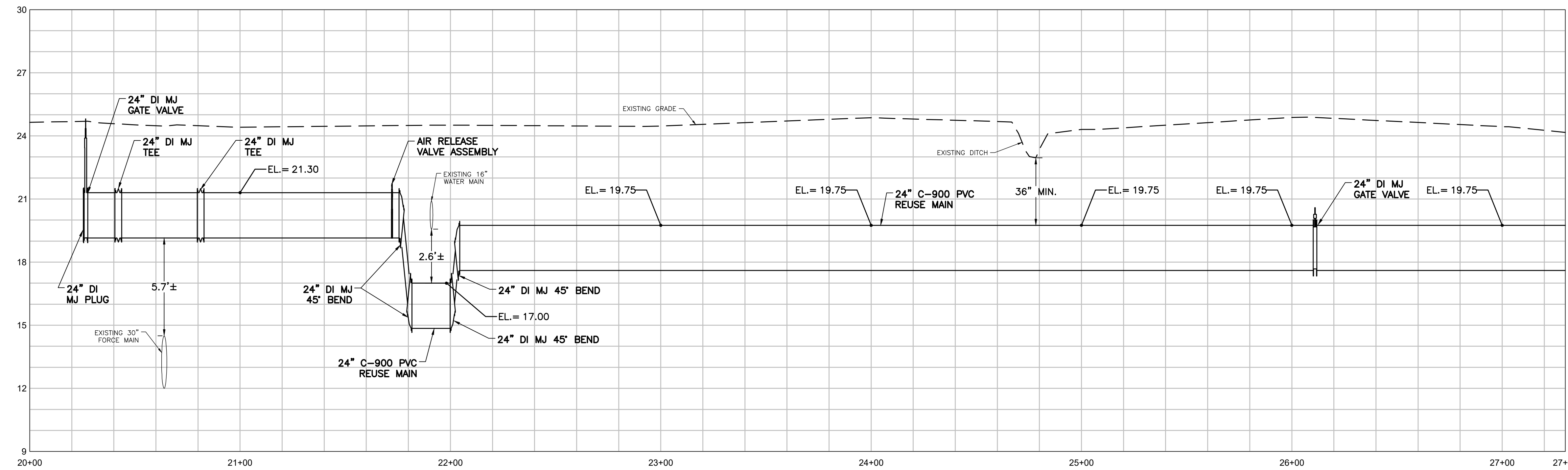
CURTIS D. ROBINSON, P.E.
 License No: 65685

C-2



REUSE WATER MAIN CROSSING TABLE						
CONFLICT	CONFLICT PIPE	ELEVATION	PROPOSED RWM	UNDER/OVER	CLEARANCE	ELEVATION
C3-1	2" FOC	BOP 21.8	24" PVC	UNDER	0.5'	TOP 21.3
C3-2	24" FM	TOP 18.6	24" PVC	OVER	0.6'	BOP 19.2
C3-3	30" FM	TOP 14.5	24" PVC	OVER	4.7'	BOP 19.2
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PROFILE VIEW - STA: 20+00 TO STA: 27+30
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: 1"=3'

REV	DATE	REVISIONS	BY

Date: 10-27-21
 Scale: AS NOTED
 Design By: BF
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 Check By: DH

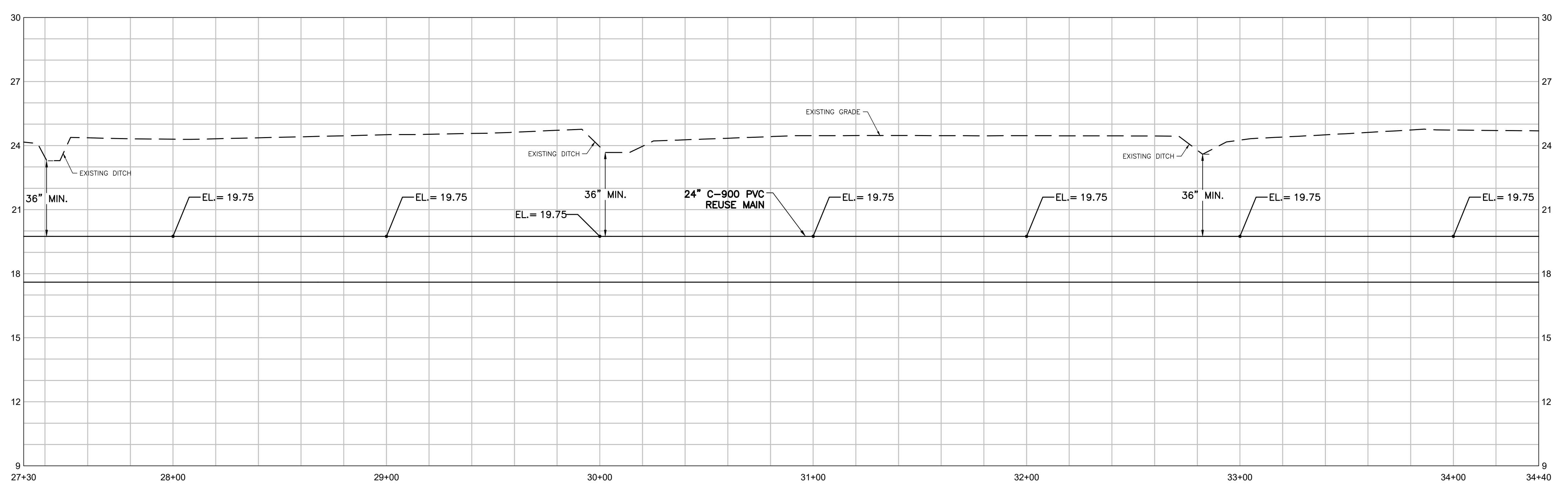
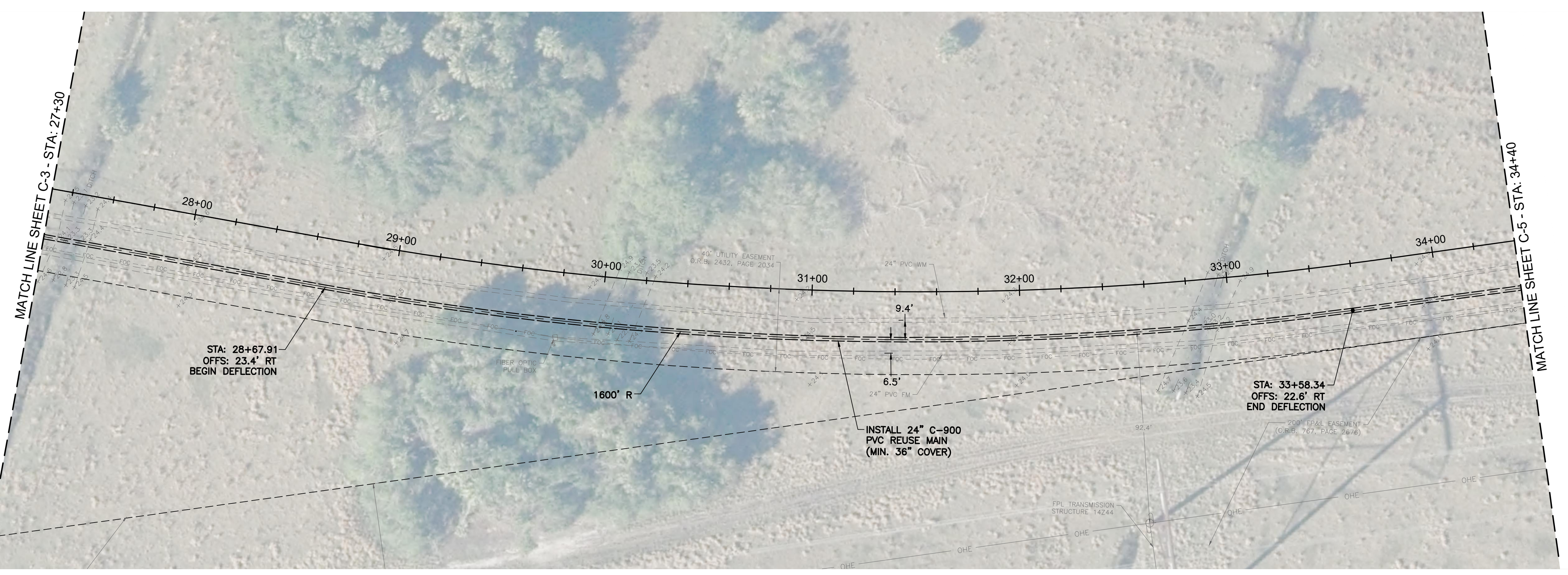
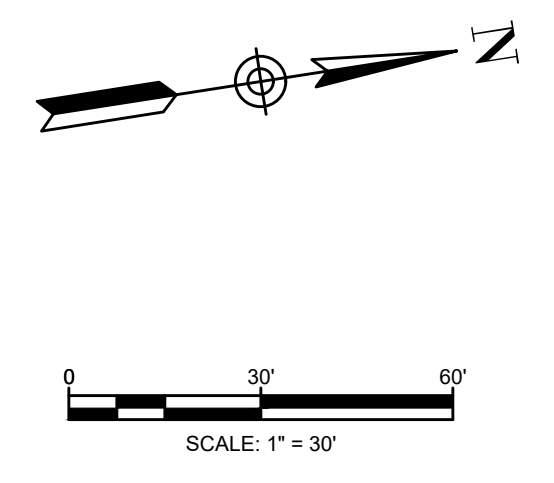
CITY OF PORT ST. LUCIE
 GLADES TO TRADITION
 REUSE WATER MAIN

PLAN AND PROFILE
 STA: 20+00 TO STA: 27+30

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 Cert. No. 26960

CURTIS D. ROBINSON, P.E.
 License No: 65685

C-3



PROFILE VIEW - STA: 27+30 TO STA: 34+40
 HORIZONTAL SCALE: 1"=30'
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KEY MAP

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 Date: 1/24/2022 9:41 AM
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Date: 10-27-21
 Scale: AS NOTED
 Design By: BF
 Drawn By: RR
 Check By: DH

CITY OF PORT ST. LUCIE
 GLADES TO TRADITION
 REUSE WATER MAIN

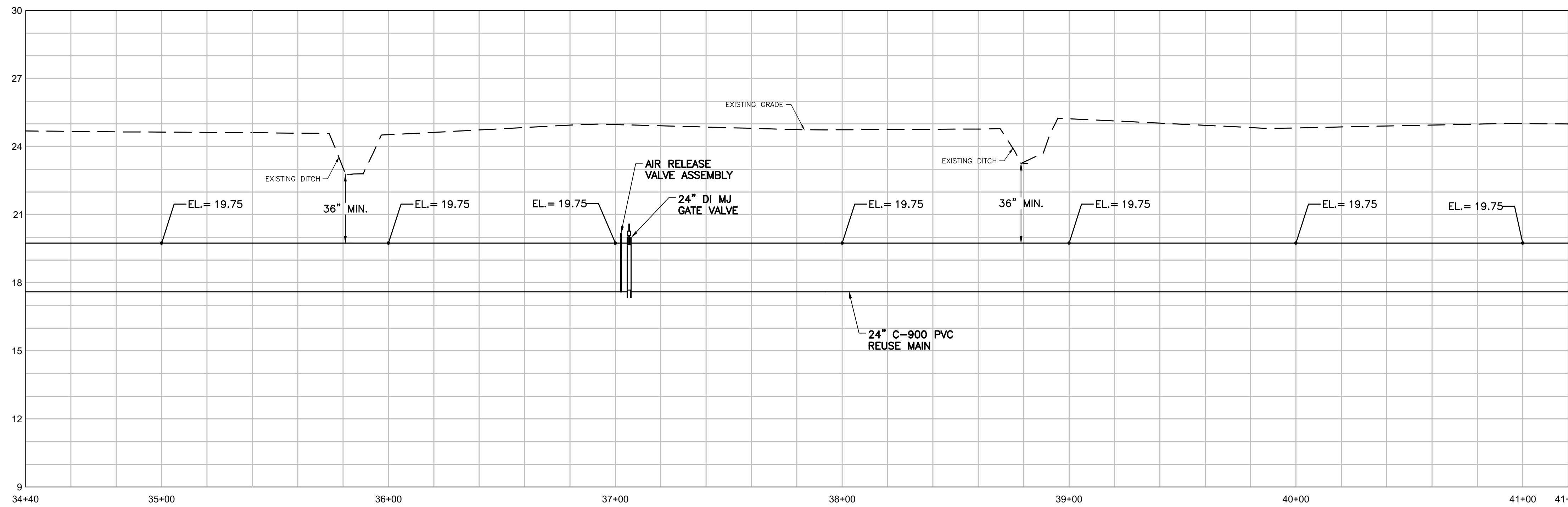
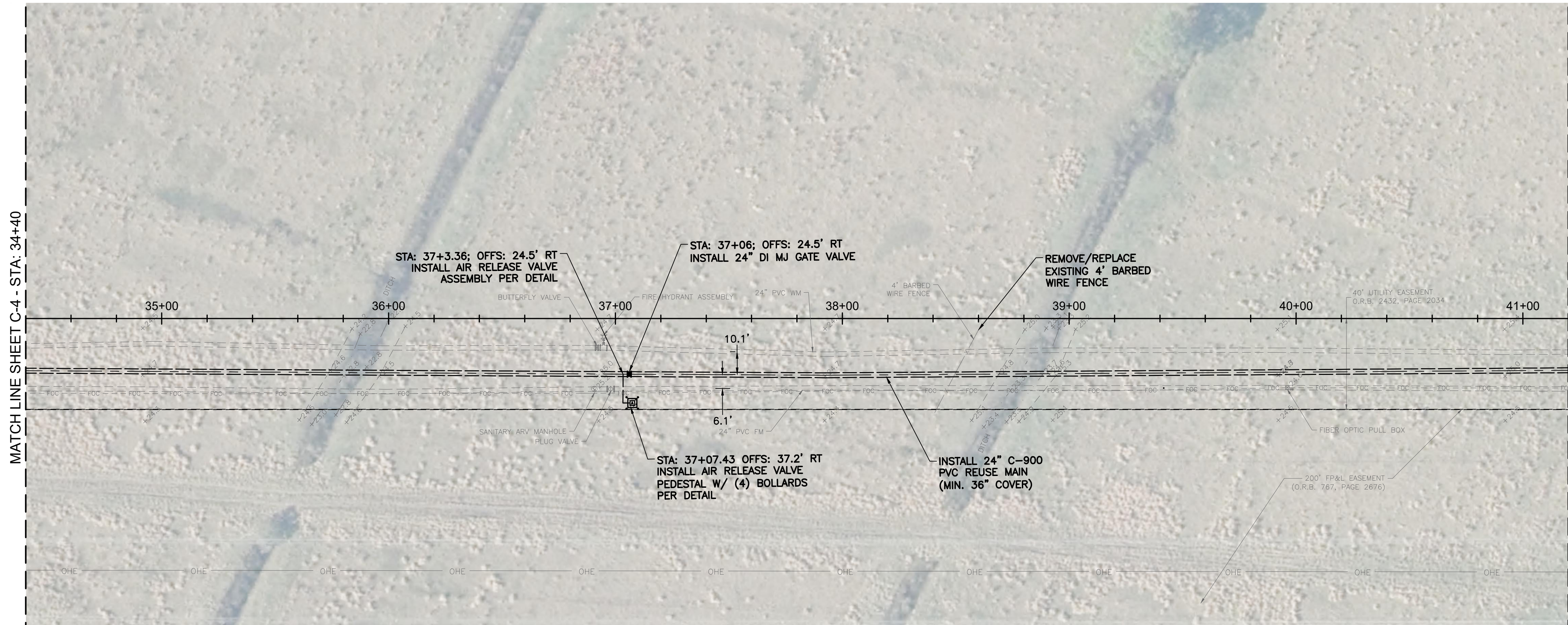
PLAN AND PROFILE
 STA: 27+30 TO STA: 34+40

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 STUART, FLORIDA 34994
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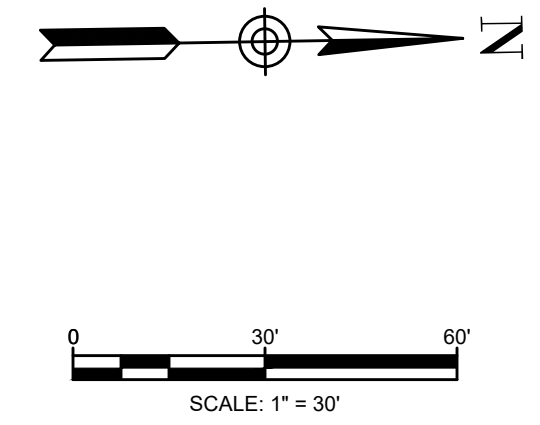
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 License No: 65685

C-4

Document Name: C:\Shropshire\Projects\City of Port St. Lucie\Glades to Tradition\Reuse Water Main C-5 - Plan and Profile.dwg
 Date: 1/24/2022 9:42 AM
 Plotted by: Russell Ryan
 Date: 1/24/2022 9:42 AM
 Holtz Consulting Engineers



PROFILE VIEW - STA: 34+40 TO STA: 41+20
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: 1"=3'



- NOTES:**
1. THE LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AND ARE BASED UPON LIMITED RECORD DRAWING INFORMATION, GIS, AND SURFACE SURVEY. CONTRACTOR SHALL VERIFY EXISTING HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITY CROSSINGS AND FOR UTILITIES IN CLOSE PROXIMITY OF PROPOSED PIPING. PROTECT AND TEMPORARILY SUPPORT ALL UTILITIES WITHIN EXCAVATION DURING THE WORK IN ADDITION TO PROTECTING UTILITIES BELOW DRILLING EQUIPMENT FROM DAMAGE.
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KEY MAP

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Date: 10-27-21
 Scale: AS NOTED
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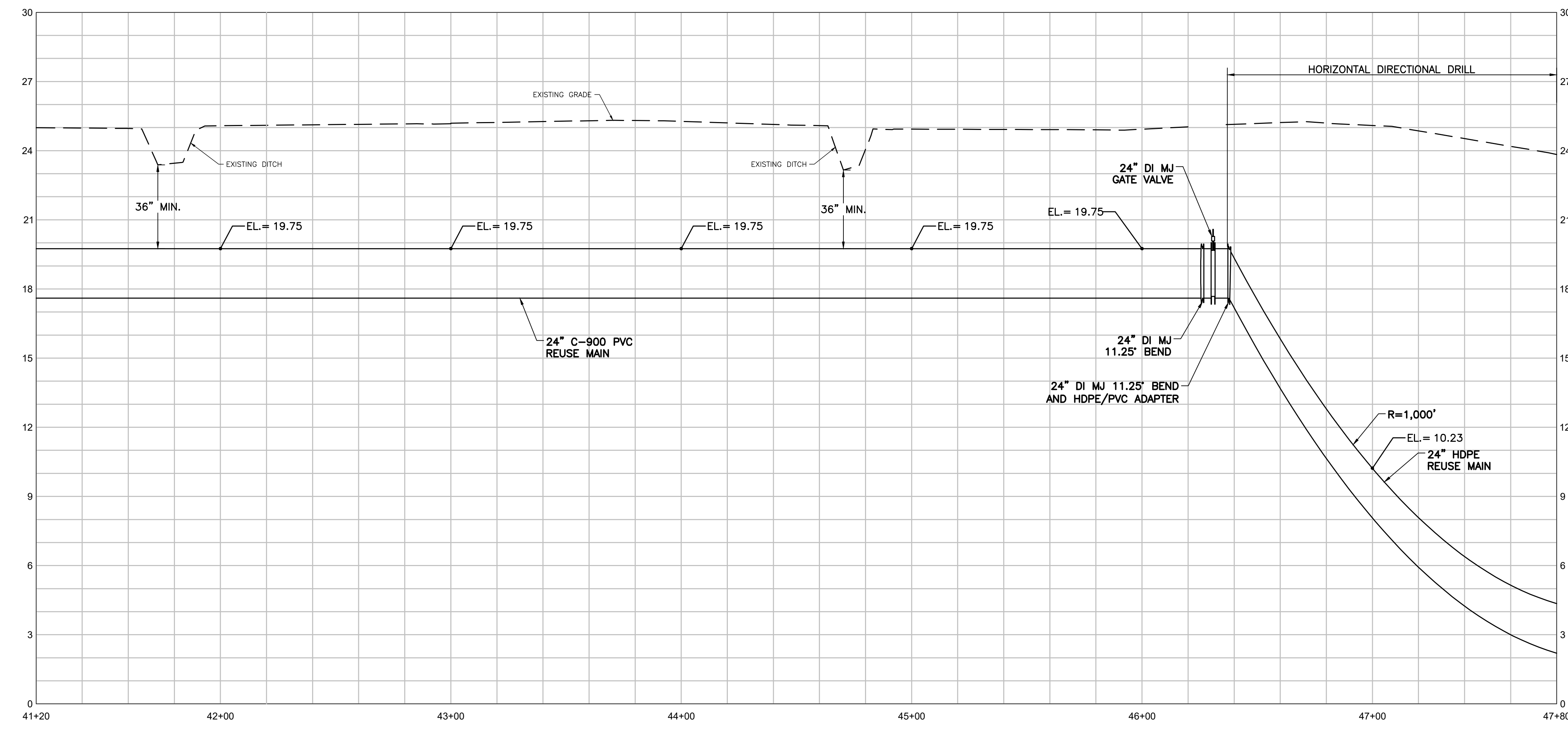
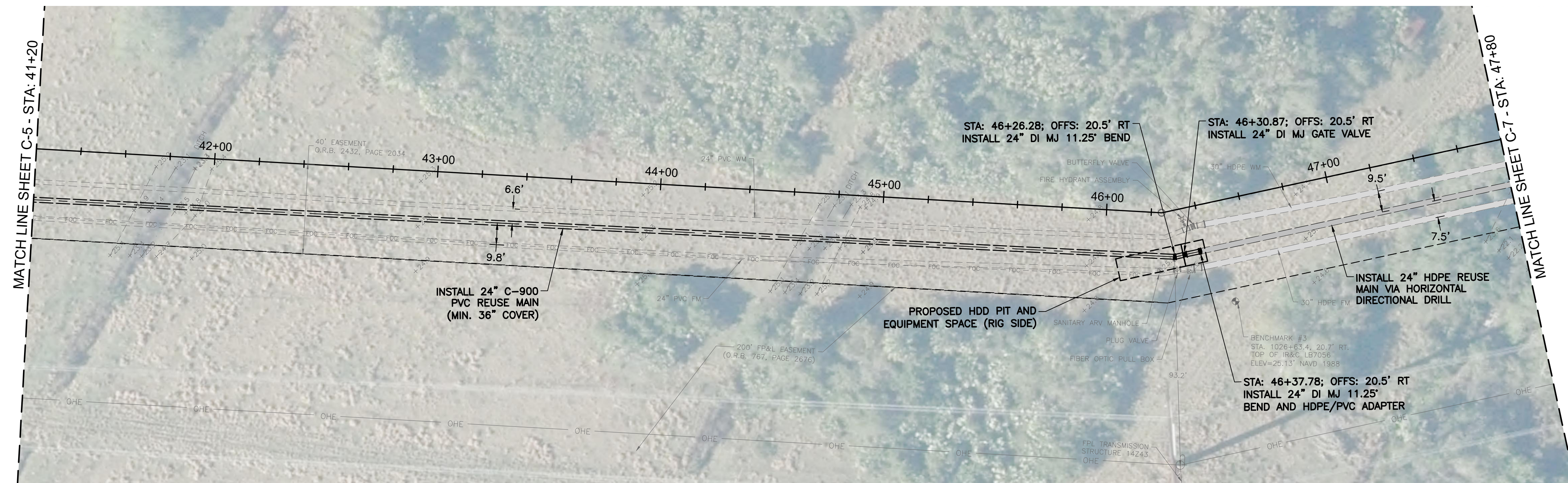
CITY OF PORT ST. LUCIE
 GLADES TO TRADITION
 REUSE WATER MAIN

PLAN AND PROFILE
 STA: 34+40 TO STA: 41+20

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C-5



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KEY MAP

Document Name: C:\Shimadzu\Projects\City of Port St. Lucie\Glades to Tradition Reuse Water Main\Drawings\Plan and Profile\Sheet C-6.dwg
 Date: 10/27/21
 Scale: AS NOTED
 Design By: BF
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 Check By: DH

REV	DATE	REVISIONS	BY

Date: 10-27-21
 Scale: AS NOTED
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 Drawn By: RR
 Check By: DH

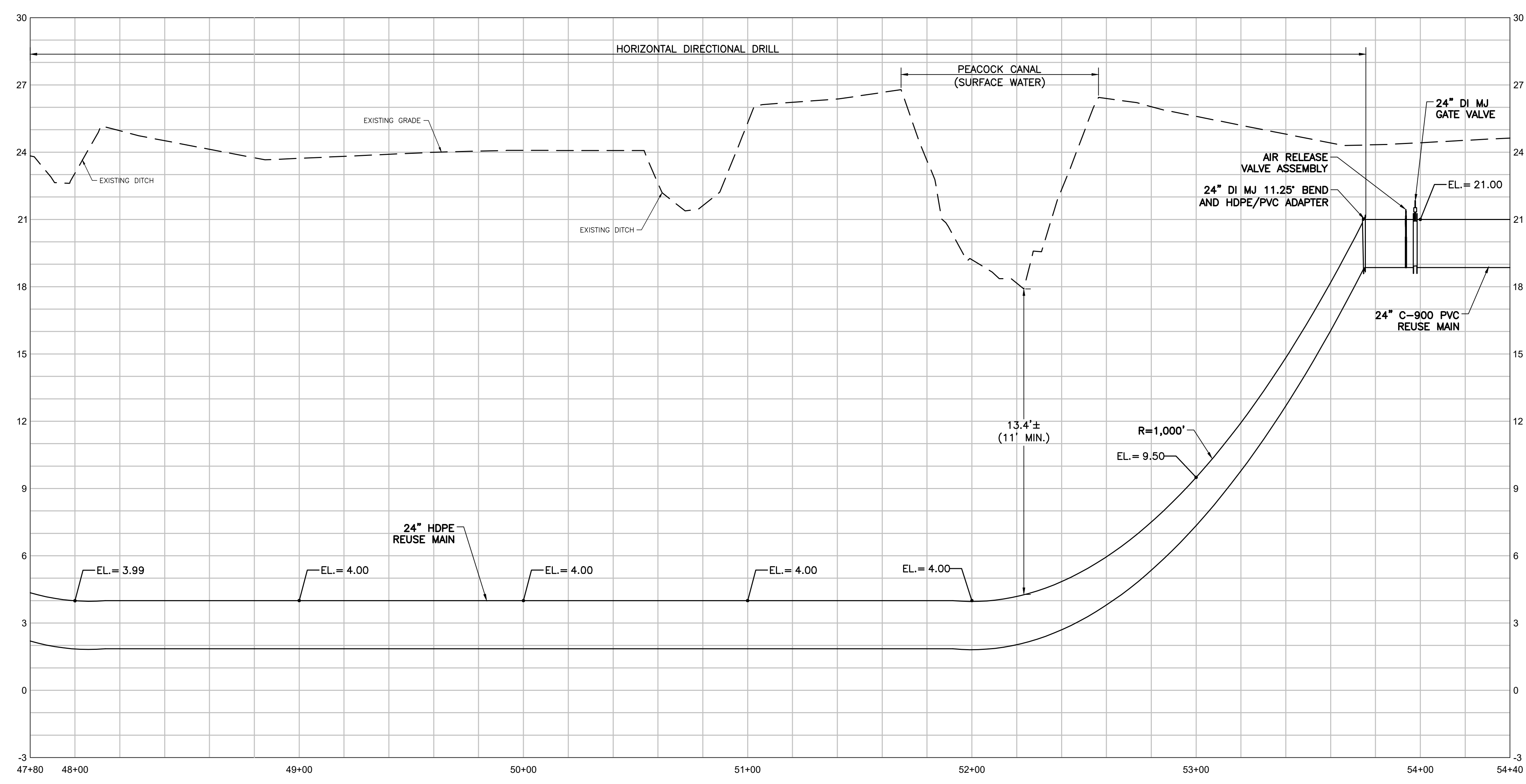
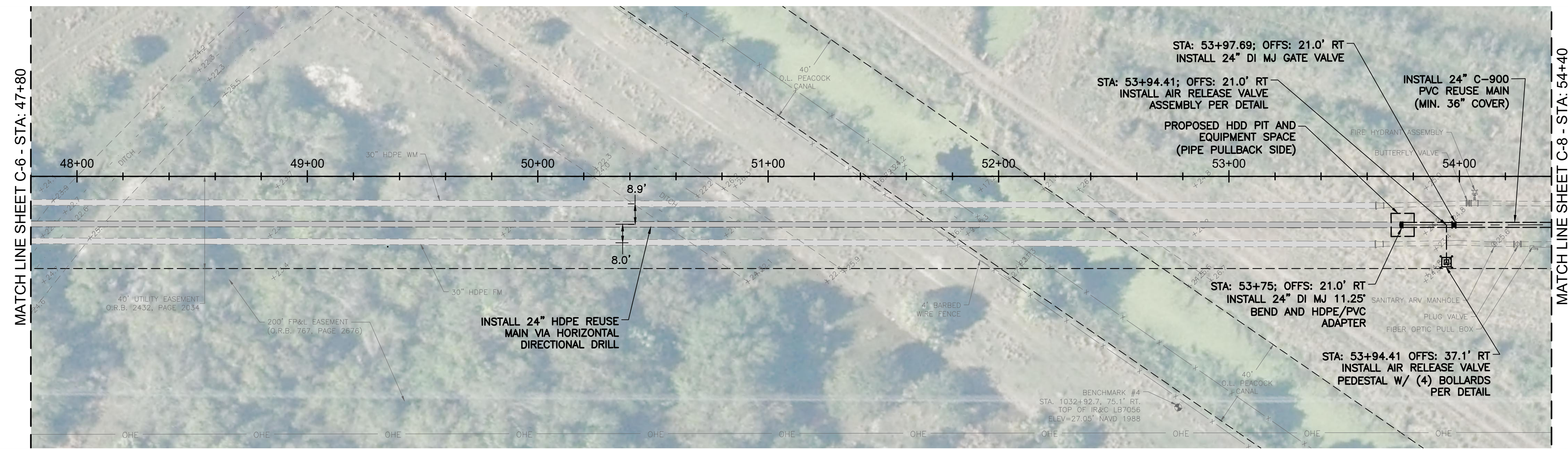
CITY OF PORT ST. LUCIE
 GLADES TO TRADITION
 REUSE WATER MAIN

PLAN AND PROFILE
 STA: 41+20 TO STA: 47+80

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 License No: 65685

C-6



PROFILE VIEW - STA: 47+80 TO STA: 54+40
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: 1"=3'

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KEY MAP

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 Layout: Reuse C-7
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REV	DATE	REVISIONS	BY

Date: 10-27-21
 Scale: AS NOTED
 Design By: BF
 Drawn By: RR
 Check By: DH

CITY OF PORT ST. LUCIE
 GLADES TO TRADITION
 REUSE WATER MAIN

PLAN AND PROFILE
 STA: 47+80 TO STA: 54+40

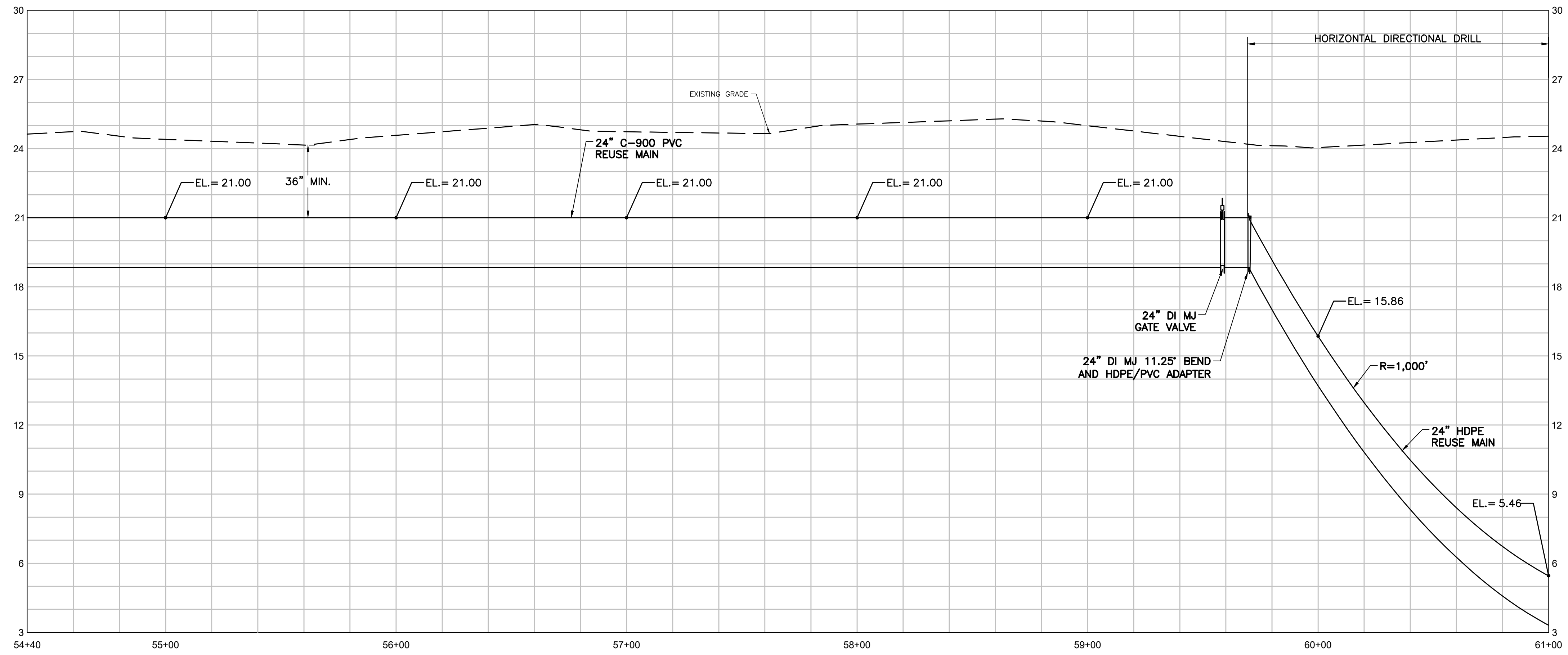
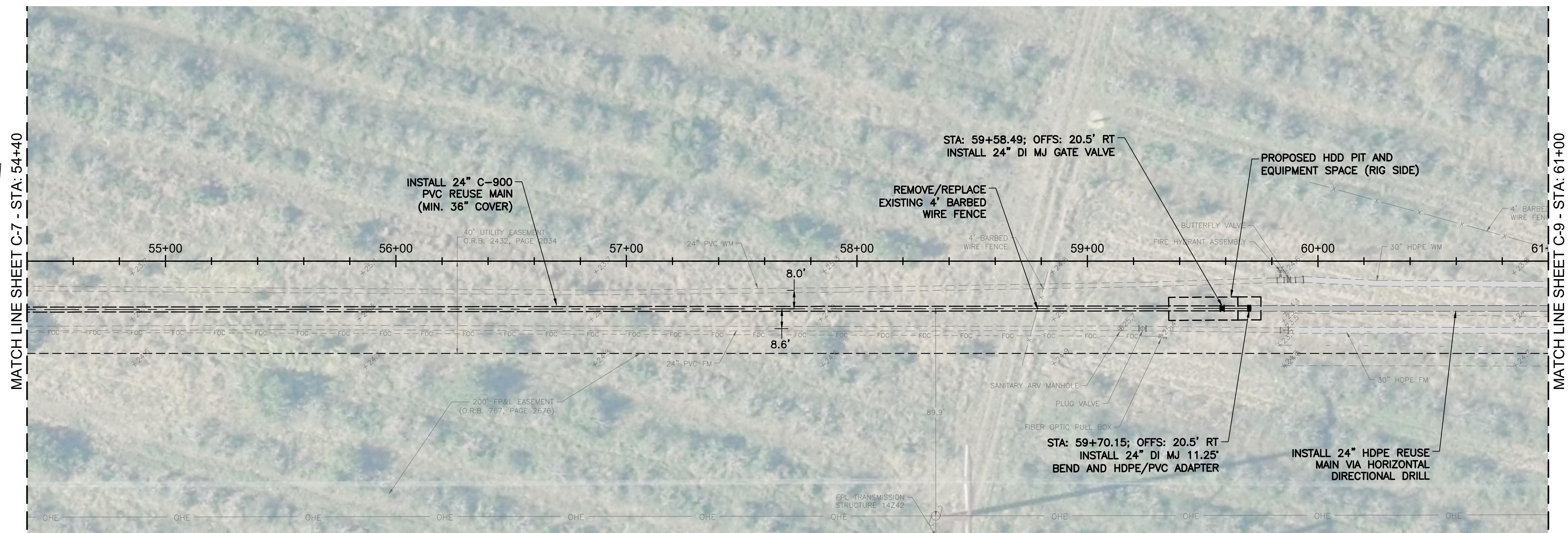
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 STUART, FLORIDA 34994
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 Cert. No. 26960

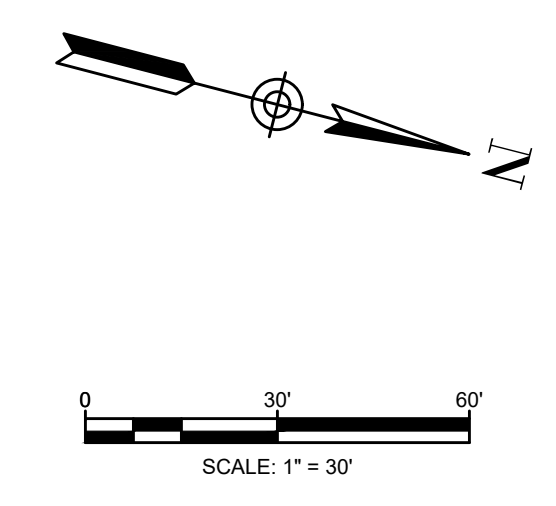
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C-7

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 Printed by: Russell Ryan
 HOLTZ CONSULTING ENGINEERS



PROFILE VIEW - STA: 54+40 TO STA: 61+00
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: 1"=3'



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KEY MAP

REV	DATE	REVISIONS	BY

Date: 10-27-21
 Scale: AS NOTED
 Design By: BF
 Drawn By: RR
 Check By: DH

CITY OF PORT ST. LUCIE
 GLADES TO TRADITION
 REUSE WATER MAIN

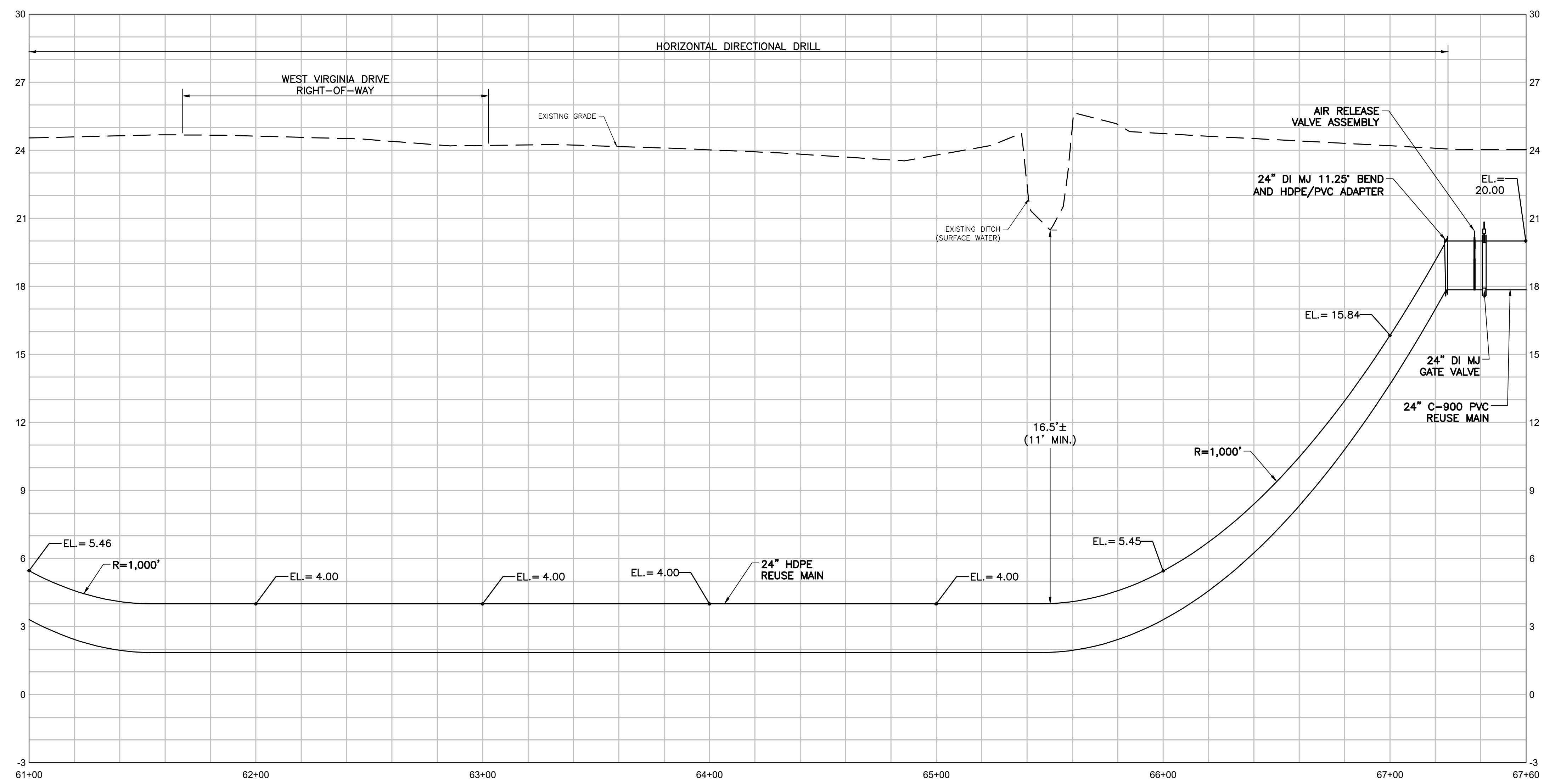
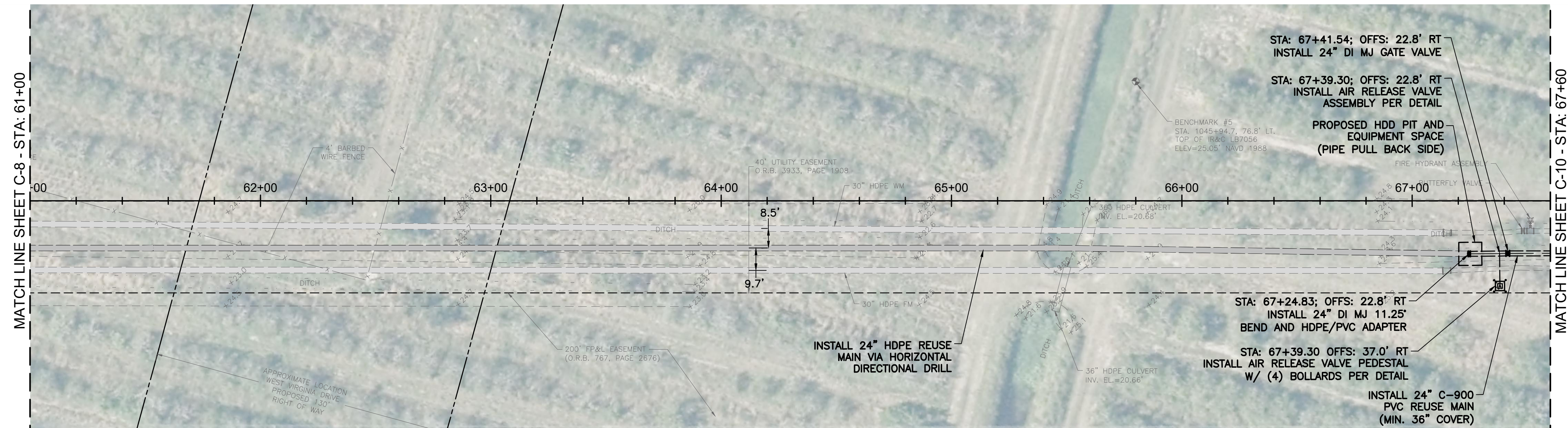
PLAN AND PROFILE
 STA: 54+40 TO STA: 61+00

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 License No: 65685

C-8



PROFILE VIEW - STA: 61+00 TO STA: 67+60
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: 1"=3'

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KEY MAP


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Date: 10-27-21
 Scale: AS NOTED
 Design By: BF
 Drawn By: RR
 Check By: DH

CITY OF PORT ST. LUCIE
 GLADES TO TRADITION
 REUSE WATER MAIN

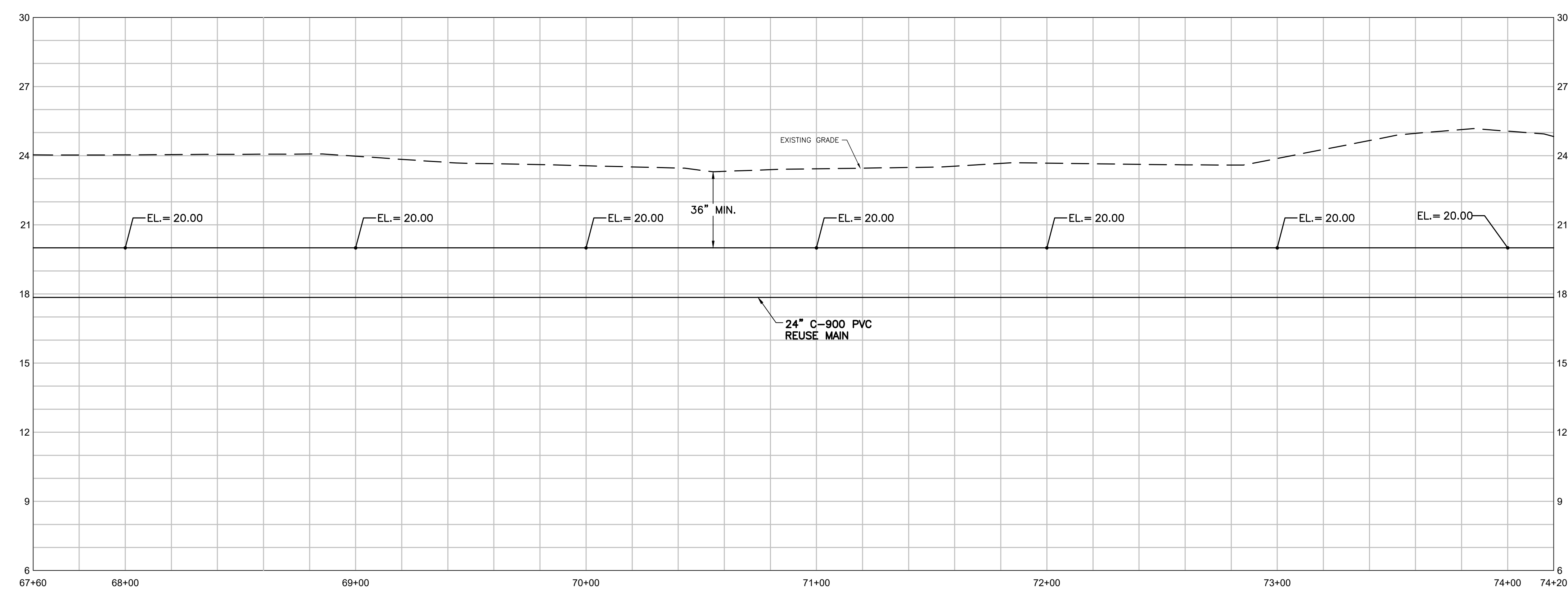
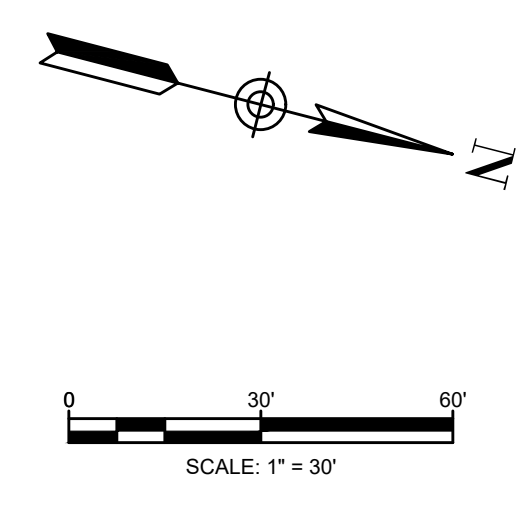
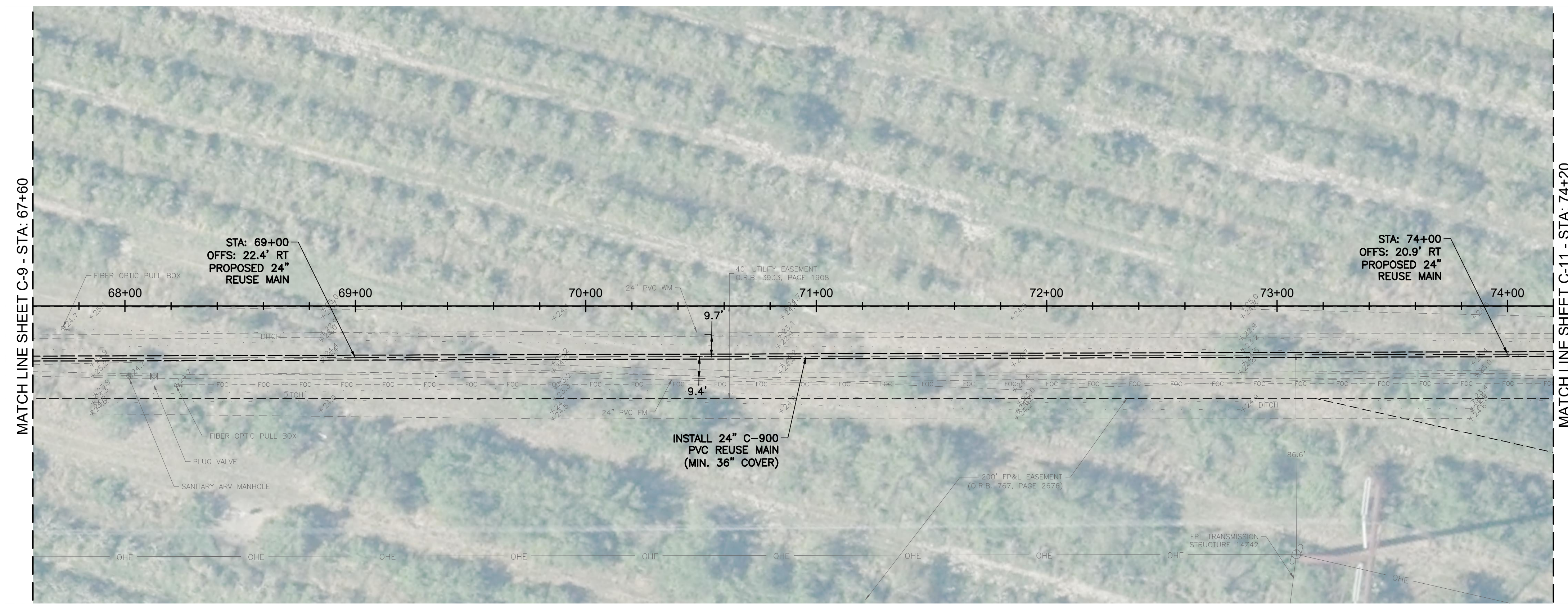
PLAN AND PROFILE
 STA: 61+00 TO STA: 67+60

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C-9

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 Plotter: HP DesignJet 5000



PROFILE VIEW - STA: 67+60 TO STA: 74+20
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: 1"=3'

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KEY MAP

REV	DATE	REVISIONS	BY

Date: 10-27-21
 Scale: AS NOTED
 Design By: BF
 Drawn By: RR
 Check By: DH

CITY OF PORT ST. LUCIE
 GLADES TO TRADITION
 REUSE WATER MAIN

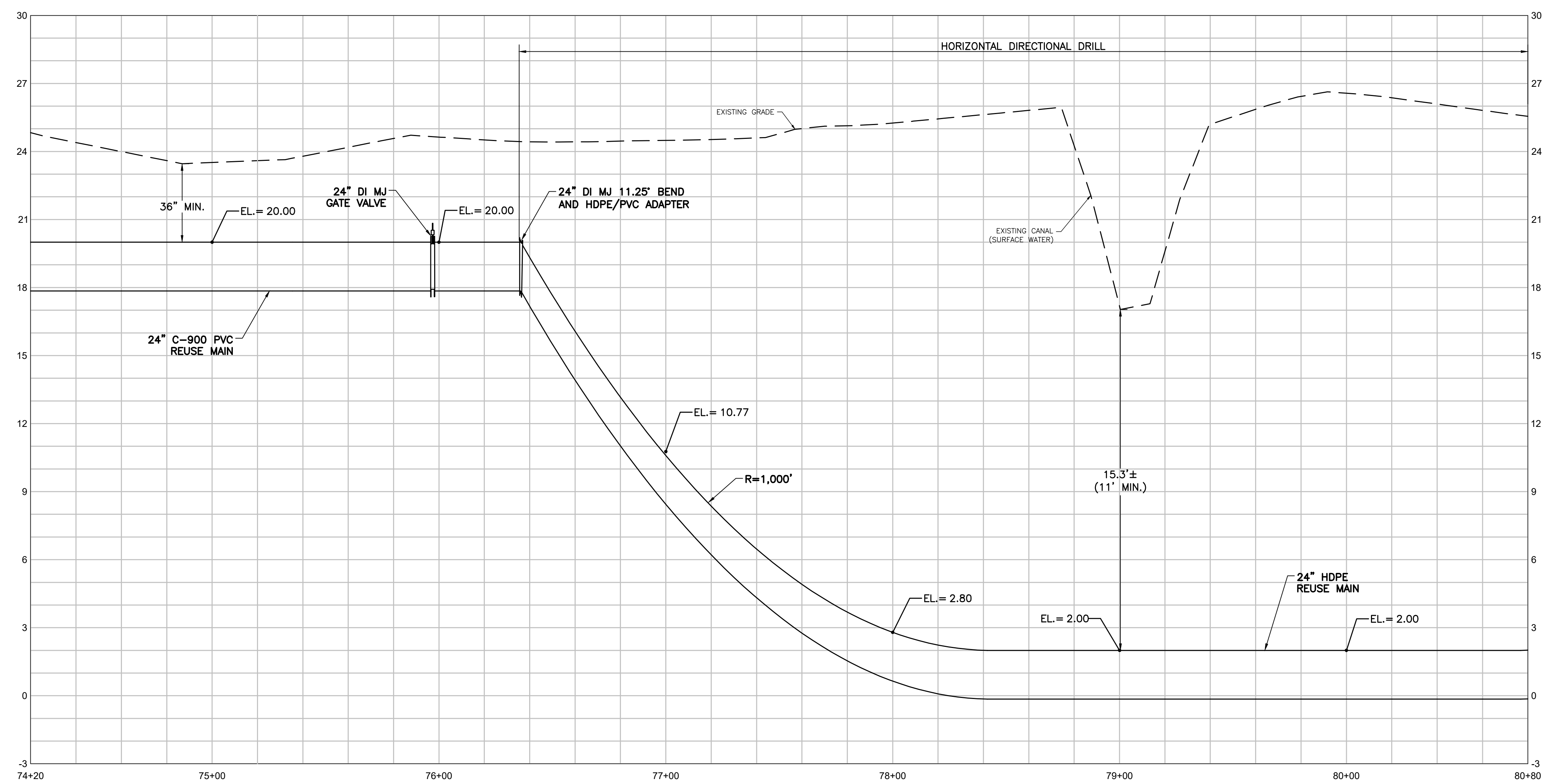
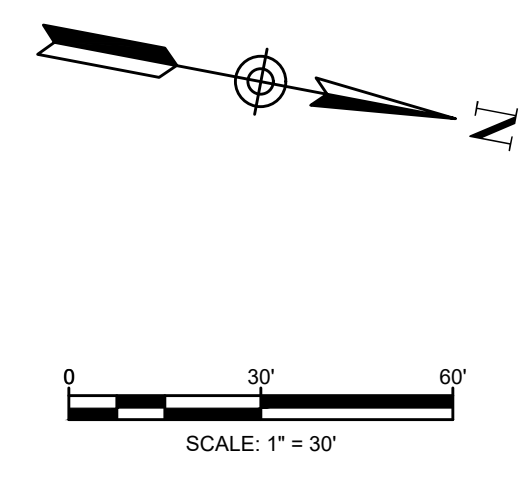
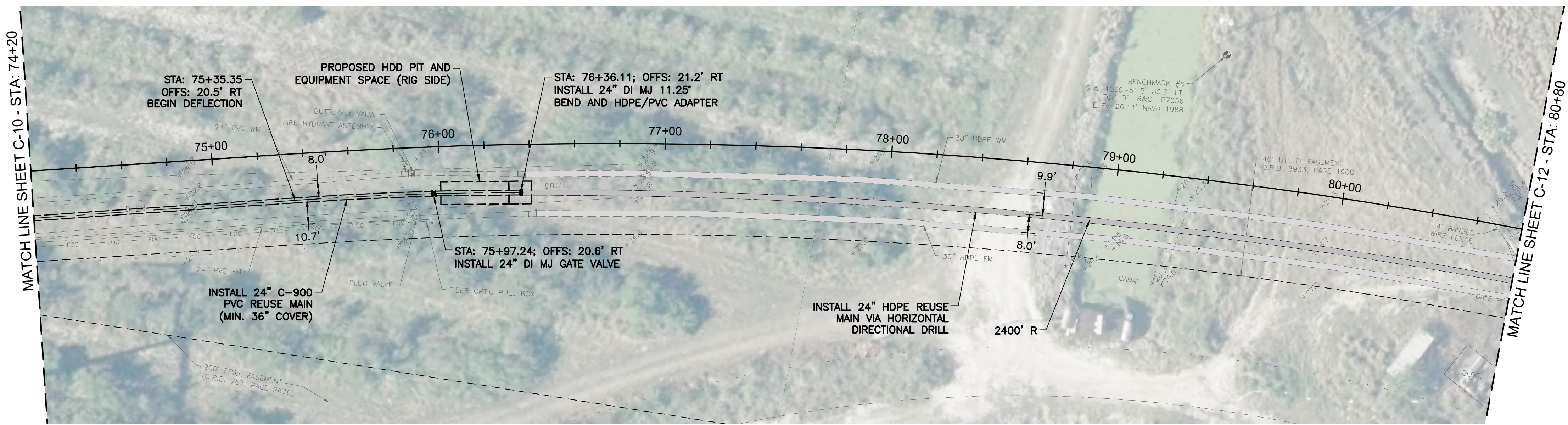
PLAN AND PROFILE
 STA: 67+60 TO STA: 74+20

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 License No: 65685

C-10



PROFILE VIEW - STA: 74+20 TO STA: 80+80
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: 1"=3'

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KEY MAP

Date: 10-27-21
 Scale: AS NOTED
 Design By: BF
 Drawn By: RR
 Check By: DH

REV	DATE	REVISIONS	BY

Date: 10-27-21
 Scale: AS NOTED
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CITY OF PORT ST. LUCIE
 GLADES TO TRADITION
 REUSE WATER MAIN

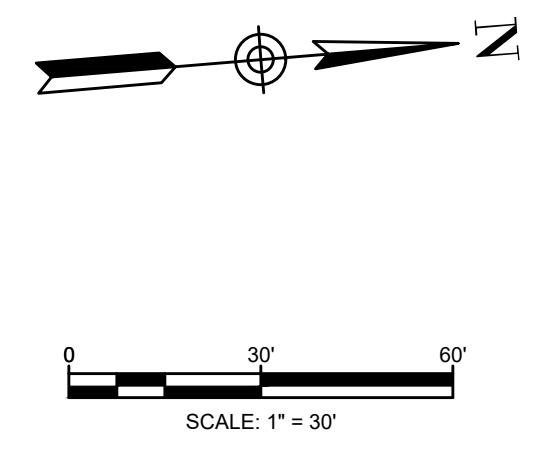
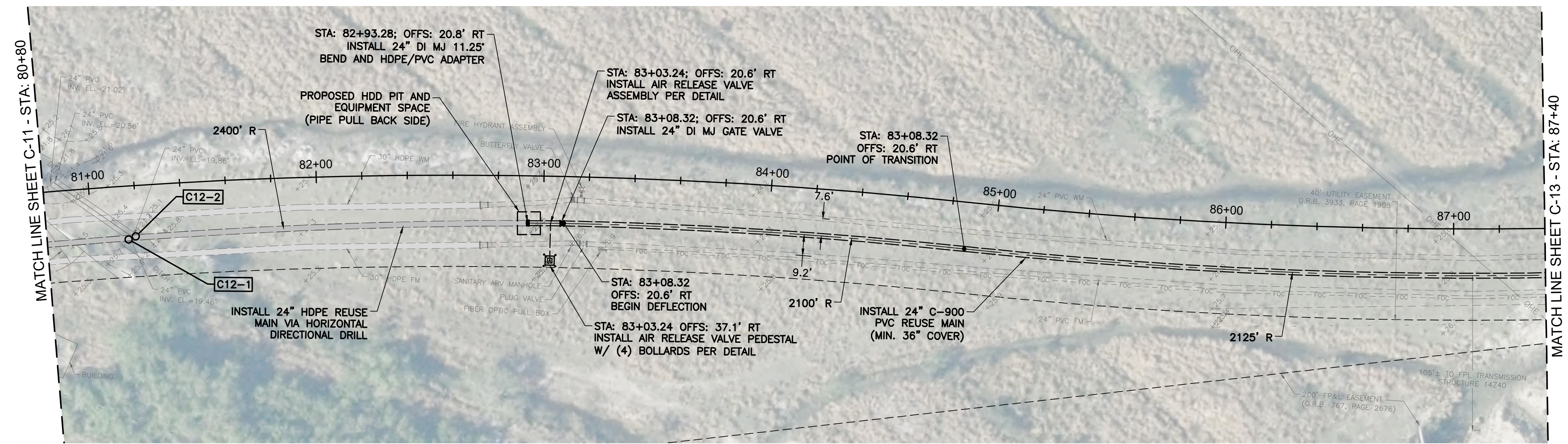
PLAN AND PROFILE
 STA: 74+20 TO STA: 80+80

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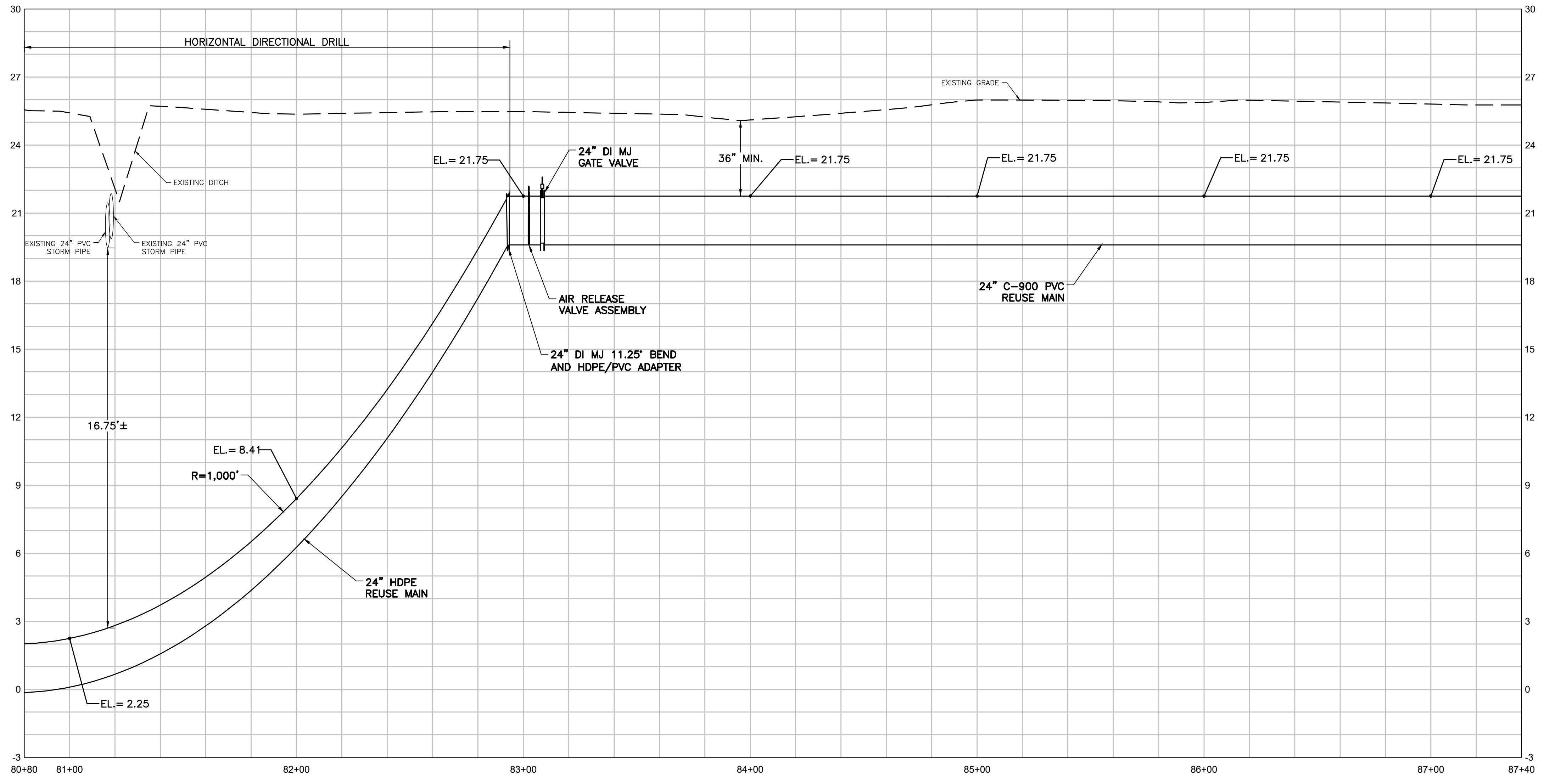
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WATER REUSE MAIN CROSSING TABLE						
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C12-1	24\"/>					

- NOTES:**
1. THE LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AND ARE BASED UPON LIMITED RECORD DRAWING INFORMATION, GIS, AND SURFACE SURVEY. CONTRACTOR SHALL VERIFY EXISTING HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITY CROSSINGS AND FOR UTILITIES IN CLOSE PROXIMITY OF PROPOSED PIPING. PROTECT AND TEMPORARILY SUPPORT ALL UTILITIES WITHIN EXCAVATION DURING THE WORK IN ADDITION TO PROTECTING UTILITIES BELOW DRILLING EQUIPMENT FROM DAMAGE.
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 6. CONTRACTOR SHALL PLAN ALL UTILITY CROSSINGS TO CONFIRM HORIZONTAL AND VERTICAL SEPARATIONS PRIOR TO CONSTRUCTION.
 7. PROPOSED REUSE WATER MAIN SHALL HAVE A MINIMUM 36\"/>



PROFILE VIEW - STA: 80+80 TO STA: 87+40
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: 1"=3'



KEY MAP

REV	DATE	REVISIONS	BY

Date: 10-27-21
 Scale: AS NOTED
 Design By: BF
 Drawn By: RR
 Check By: DH

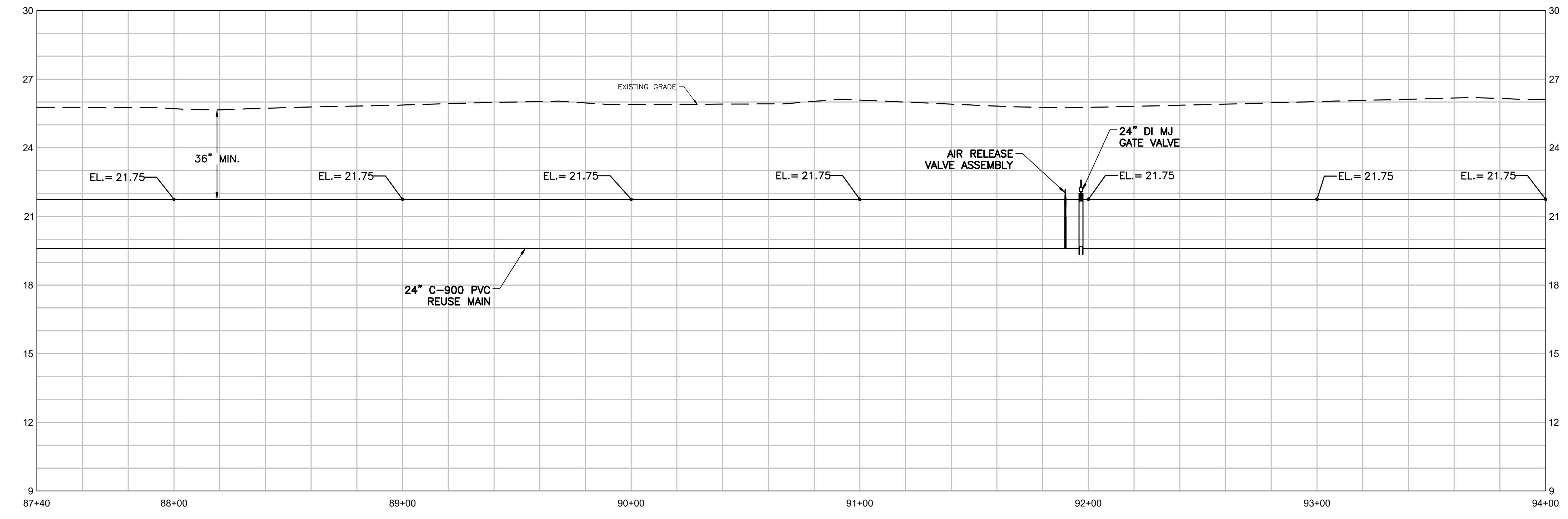
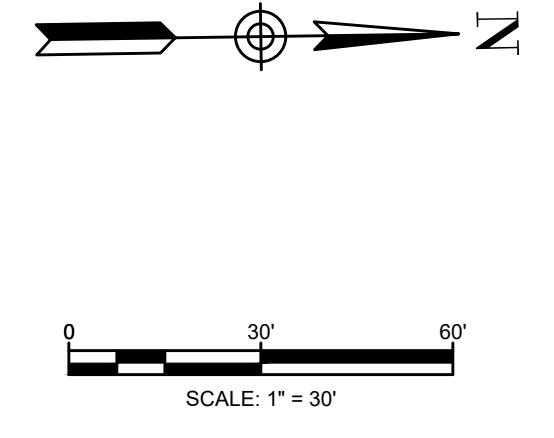
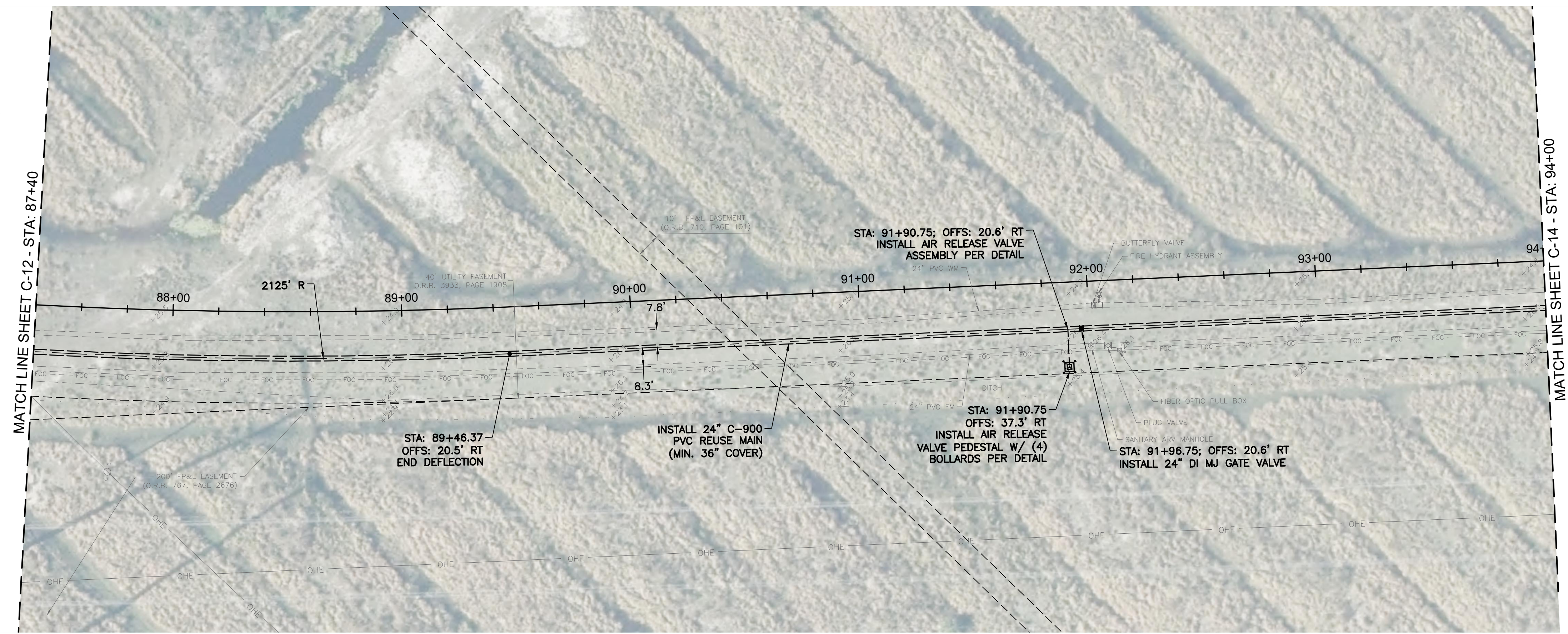
CITY OF PORT ST. LUCIE
 GLADES TO TRADITION
 REUSE WATER MAIN

PLAN AND PROFILE
 STA: 80+80 TO STA: 87+40

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 Cert. No. 26960

CURTIS D. ROBINSON, P.E.
 License No: 65685

C-12



PROFILE VIEW - STA: 87+40 TO STA: 94+00
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: 1"=3'

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 8. CONTRACTOR SHALL ADEQUATELY RESTRAIN ALL EXISTING VALVES, FITTINGS, PIPES, AND APPURTENANCES AS NECESSARY TO MAKE CONNECTIONS AT NO ADDITIONAL COST TO THE OWNER.



KEY MAP

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 User: rrubin

REV	DATE	REVISIONS	BY

Date: 10-27-21
 Scale: AS NOTED
 Design By: BF
 Drawn By: RR
 Check By: DH

CITY OF PORT ST. LUCIE
 GLADES TO TRADITION
 REUSE WATER MAIN

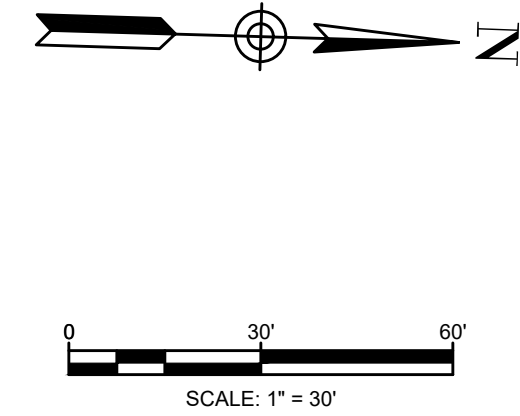
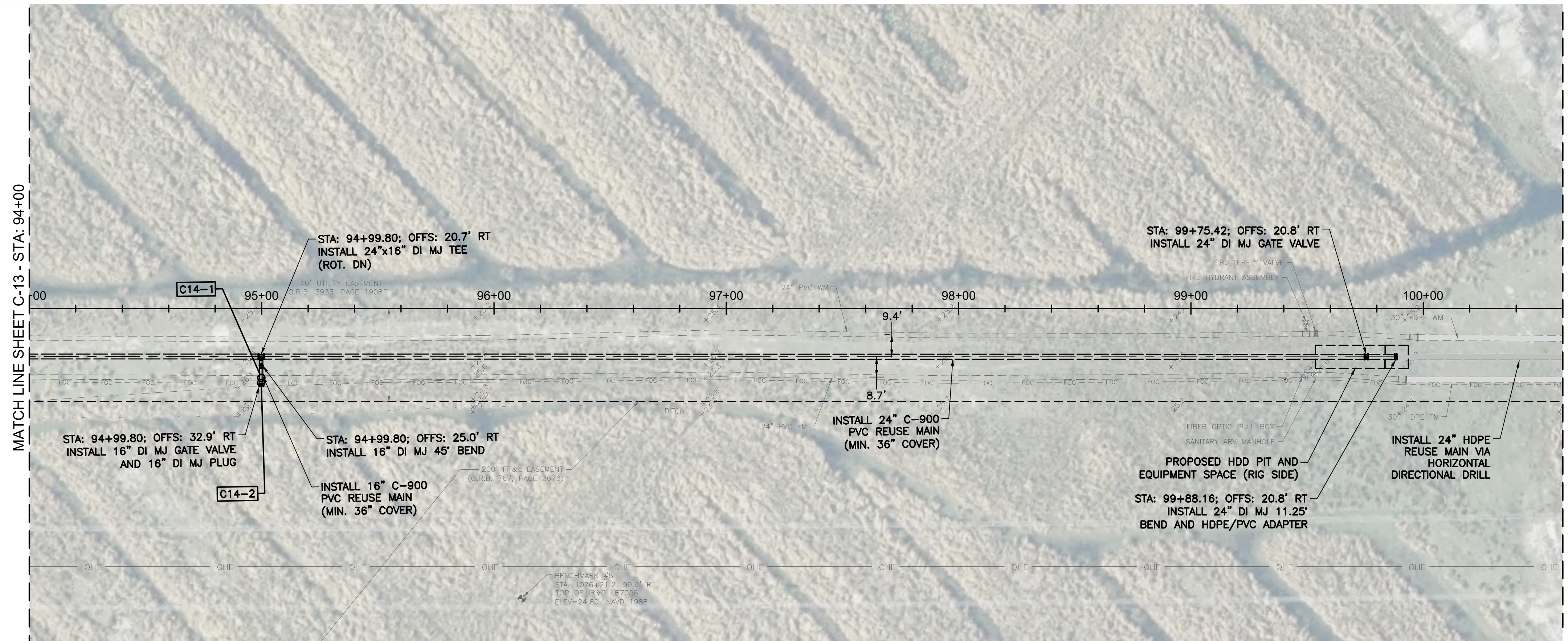
PLAN AND PROFILE
 STA: 87+40 TO STA: 94+00

HOLTZ CONSULTING ENGINEERS, INC.

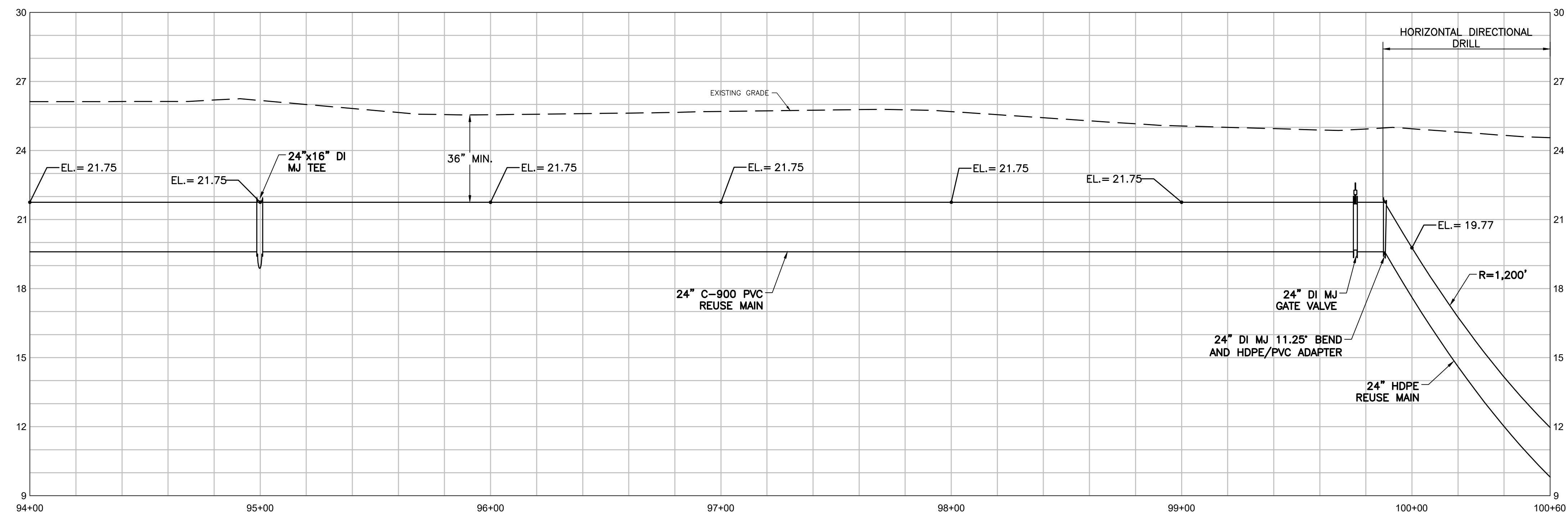
 607 SW ST. LUCIE CRESCENT, SUITE 103
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 Cert. No. 26960

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 License No: 65685

C-13

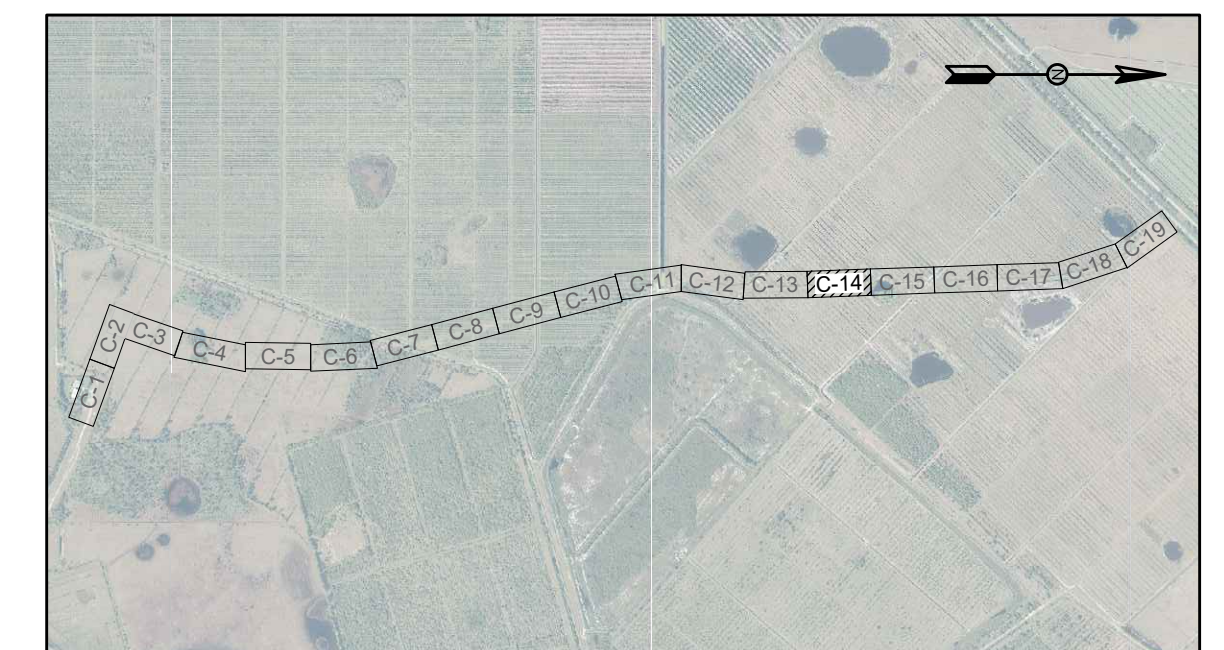


WATER REUSE MAIN CROSSING TABLE						
CONFLICT	CONFLICT PIPE	ELEVATION	PROPOSED RWM	UNDER/OVER	CLEARANCE	ELEVATION
C14-1	24" FM	BOP 17.5	16" PVC	UNDER	0.5'	TOP 17.0
C14-2	2" FOC	BOP 19.3	16" PVC	UNDER	2.3'	TOP 17.0



PROFILE VIEW - STA: 94+00 TO STA: 100+60
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: 1"=3'

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KEY MAP

Date: 1/24/2022 - 8:48 AM - Plotter Job: Russell Ryan - Plotter Job: Russell Ryan - Document Path: C:\Sharon\Projects\City of Port St. Lucie\Glades to Tradition Reuse Water Main\Drawings\Plan\02.dwg Layout: Reuse_C-14 - Plotter Job: Russell Ryan - Date: 1/24/2022 - 8:48 AM - Holtz Consulting Engineers

REV	DATE	REVISIONS	BY

Date: 10-27-21
 Scale: AS NOTED
 Design By: BF
 Drawn By: RR
 Check By: DH

CITY OF PORT ST. LUCIE
 GLADES TO TRADITION
 REUSE WATER MAIN

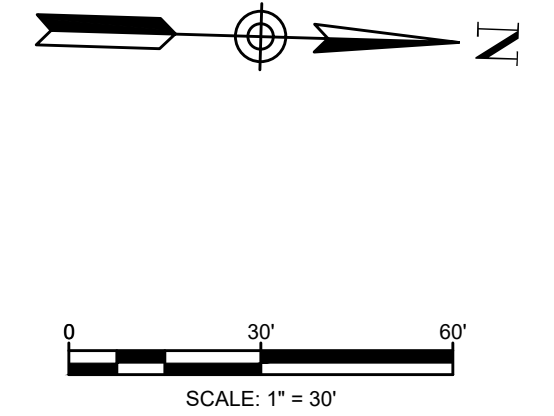
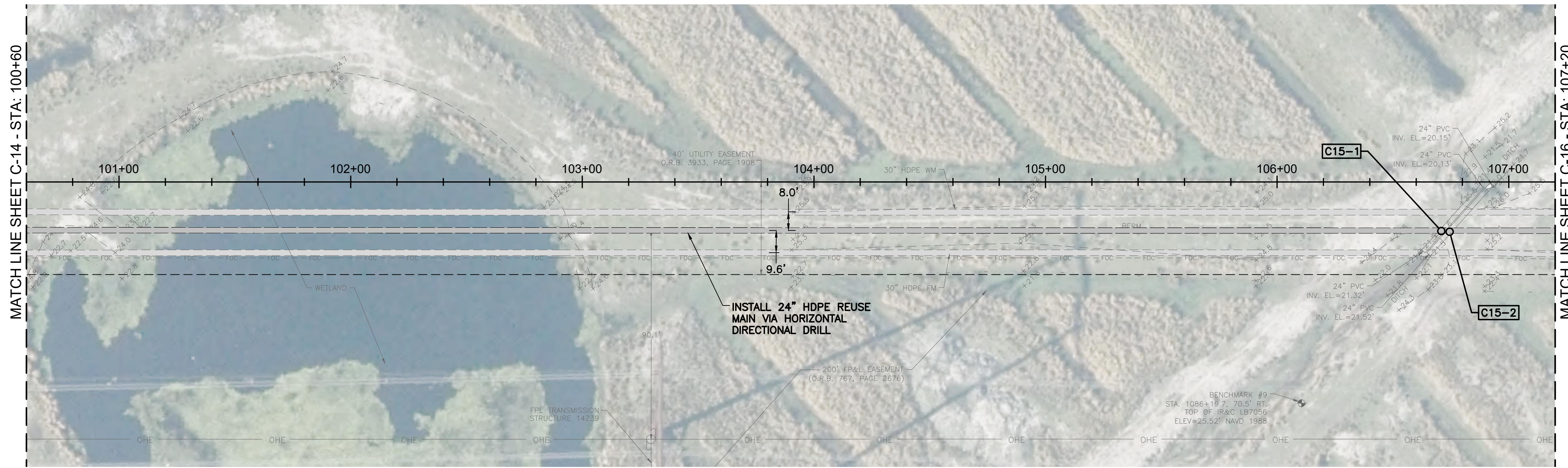
PLAN AND PROFILE
 STA: 94+00 TO STA: 100+60

HOLTZ CONSULTING ENGINEERS, INC.

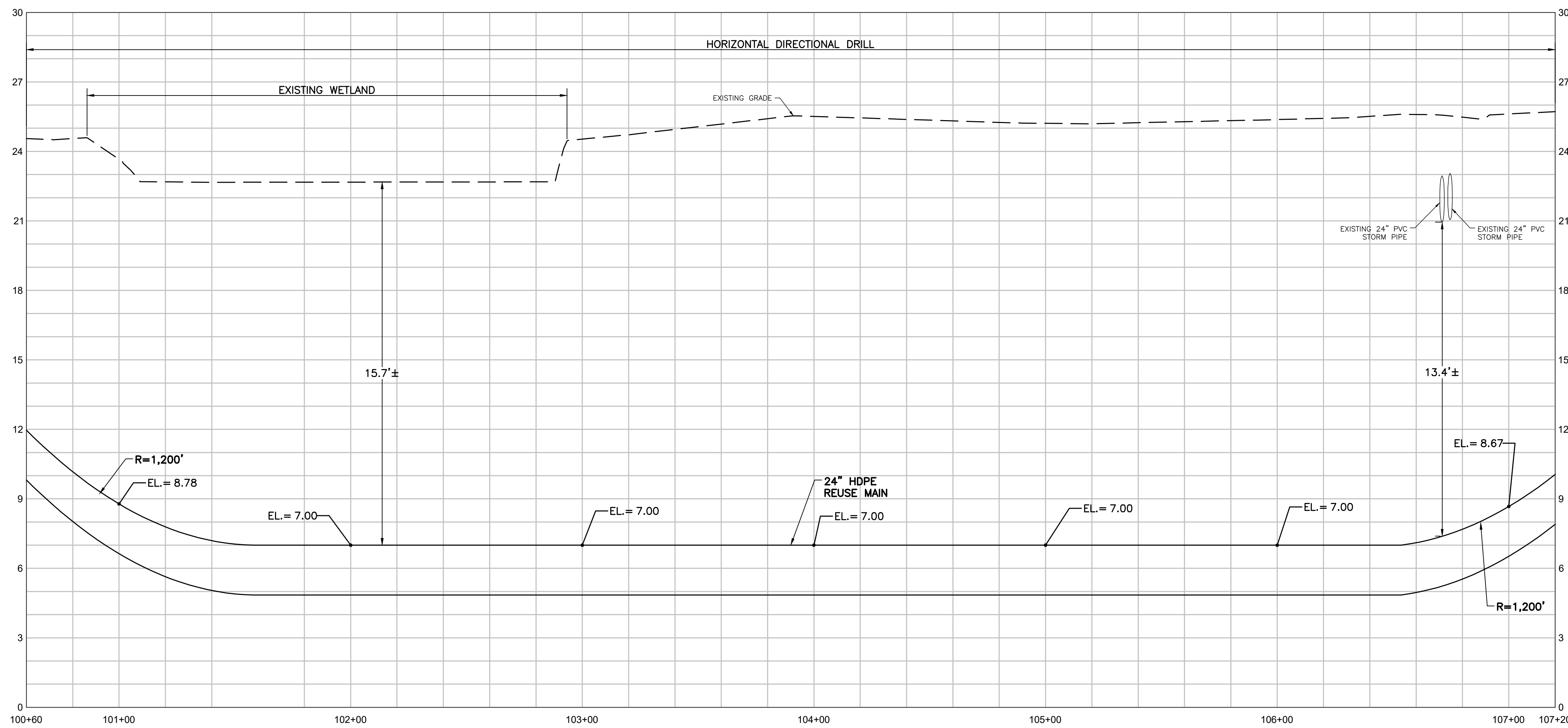
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 License No: 65685

C-14



WATER REUSE MAIN CROSSING TABLE						
CONFLICT	CONFLICT PIPE	ELEVATION	PROPOSED RWM	UNDER/OVER	CLEARANCE	ELEVATION
C15-1	24" STORM	BOP 20.9	8" HDPE	UNDER	13.4'	TOP 7.5
C15-2	24" STORM	BOP 21.0	8" HDPE	UNDER	13.5'	TOP 7.5



PROFILE VIEW - STA: 100+60 TO STA: 107+20
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: 1"=3'

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KEY MAP

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REV	DATE	REVISIONS	BY

Date: 10-27-21
 Scale: AS NOTED
 Design By: BF
 Drawn By: RR
 Check By: DH

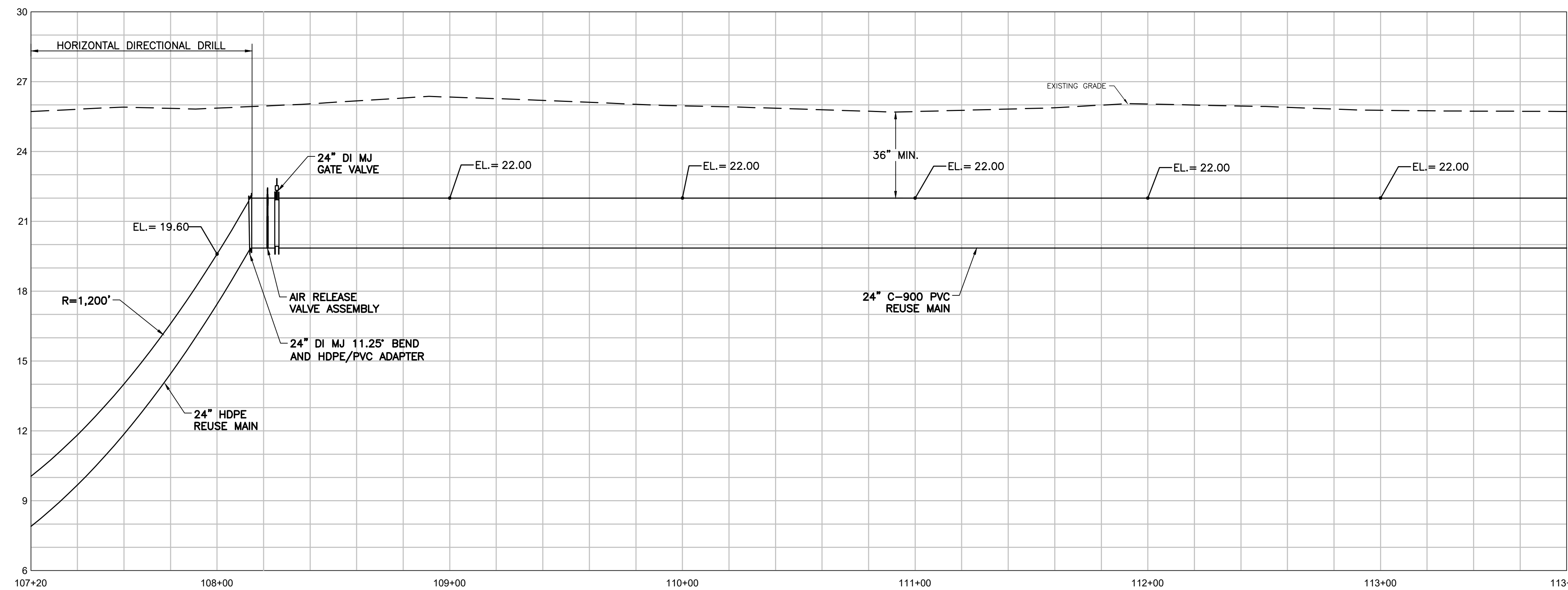
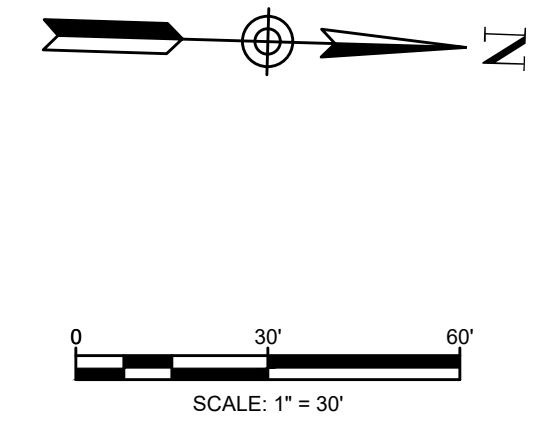
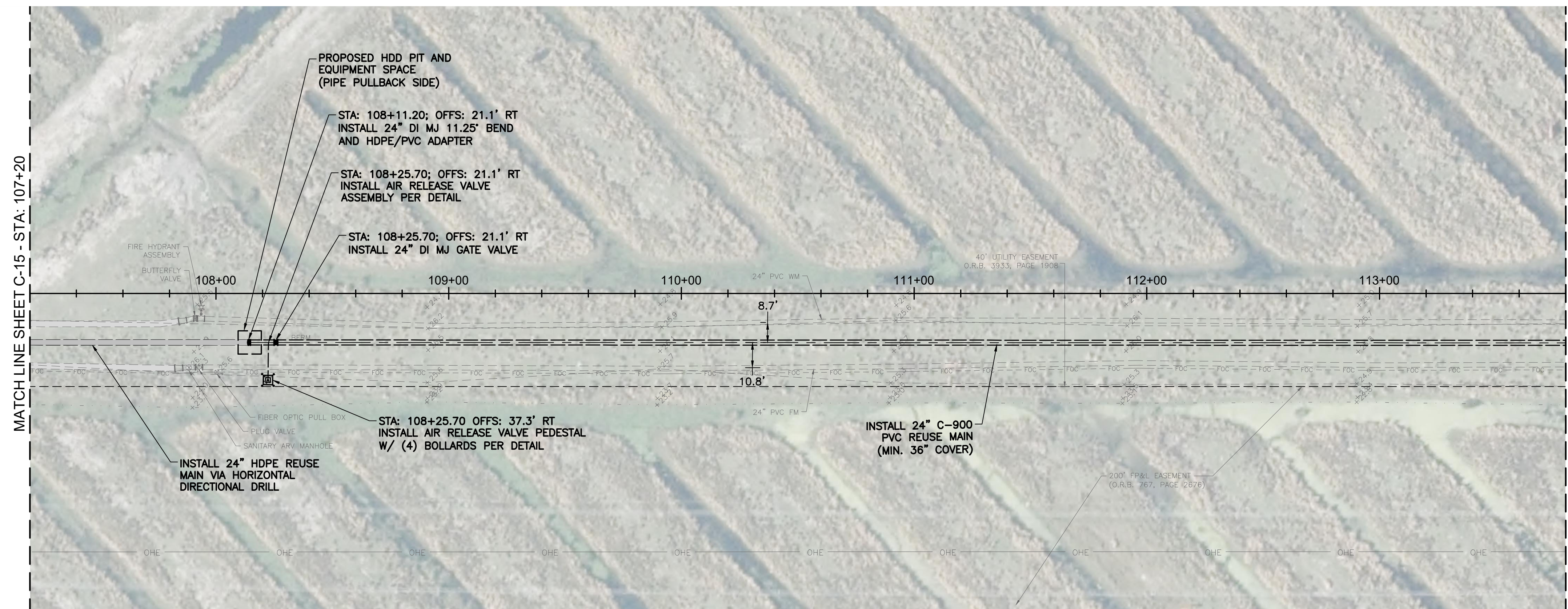
CITY OF PORT ST. LUCIE
 GLADES TO TRADITION
 REUSE WATER MAIN

PLAN AND PROFILE
 STA: 100+60 TO STA: 107+20

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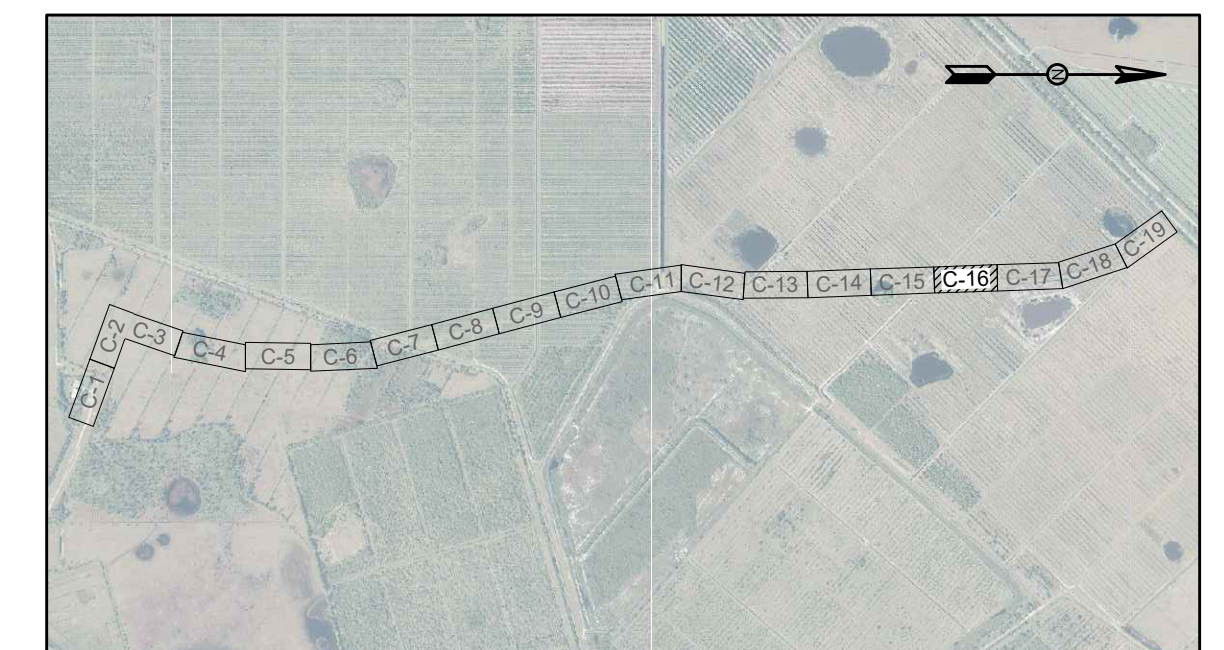
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 License No: 65685

C-15



PROFILE VIEW - STA: 107+20 TO STA: 113+80
 HORIZONTAL SCALE: 1"=30'
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KEY MAP

Date: 10-27-21
 Scale: AS NOTED
 Design By: BF
 Drawn By: RR
 Check By: DH

REV	DATE	REVISIONS	BY

Date: 10-27-21
 Scale: AS NOTED
 Design By: BF
 Drawn By: RR
 Check By: DH

CITY OF PORT ST. LUCIE
 GLADES TO TRADITION
 REUSE WATER MAIN

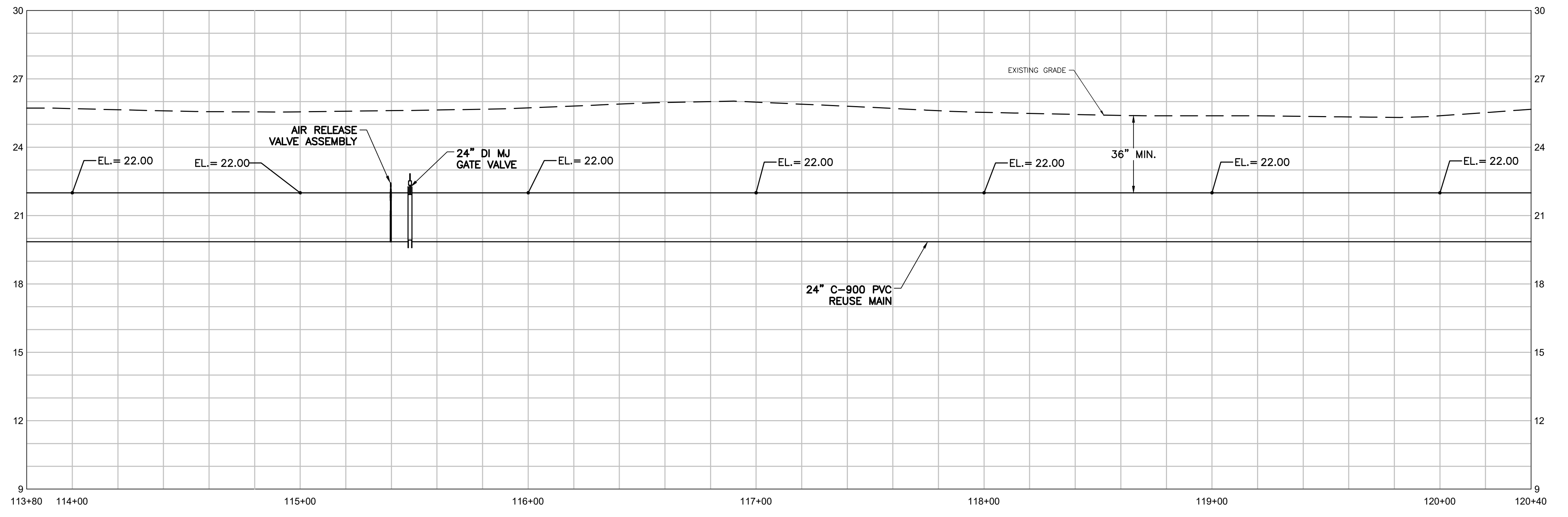
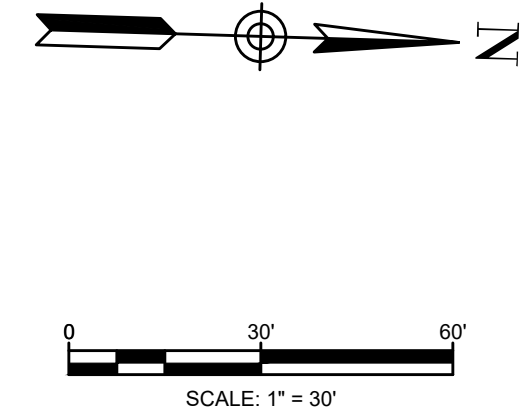
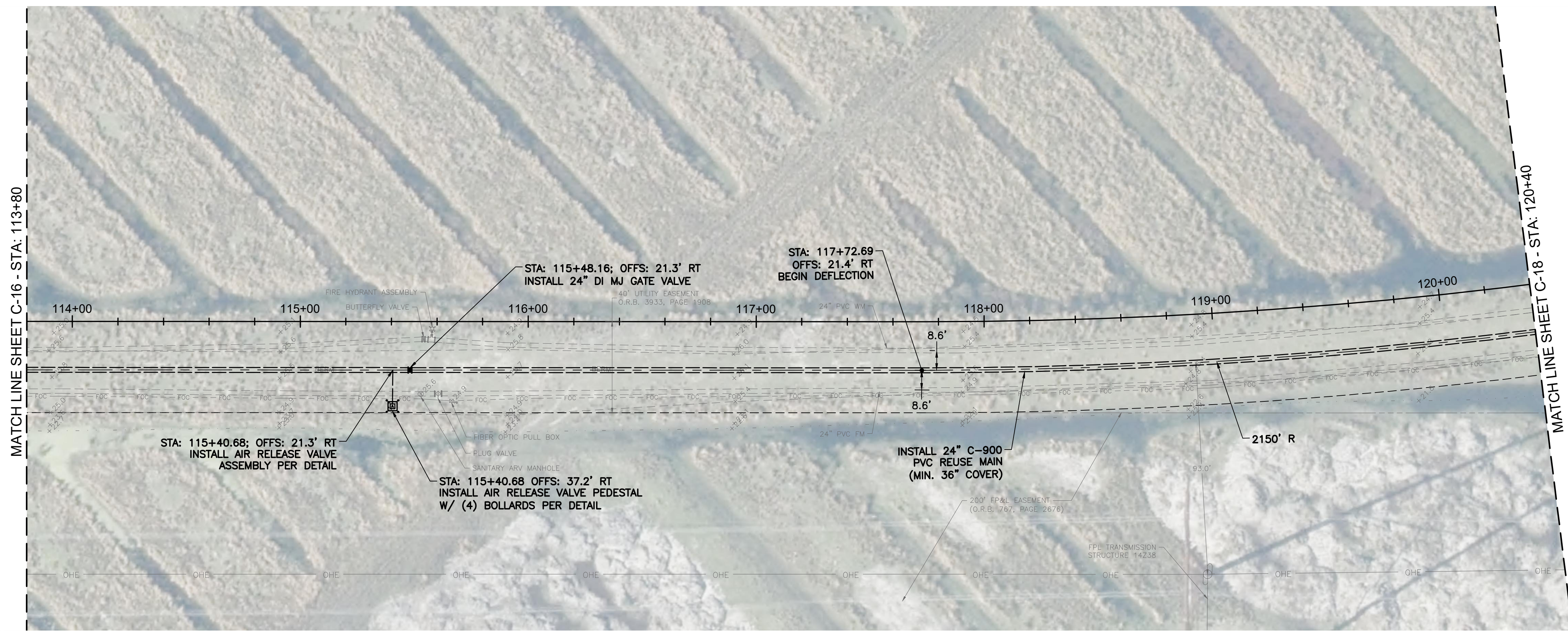
PLAN AND PROFILE
 STA: 107+20 TO STA: 113+80

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C-16

Date: 10-27-21
 Scale: AS NOTED
 Design By: BF
 Drawn By: RR
 Check By: DH



PROFILE VIEW - STA: 113+80 TO STA: 120+40
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: 1"=3'

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KEY MAP

REV	DATE	REVISIONS	BY

Date: 10-27-21
 Scale: AS NOTED
 Design By: BF
 Drawn By: RR
 Check By: DH

CITY OF PORT ST. LUCIE
 GLADES TO TRADITION
 REUSE WATER MAIN

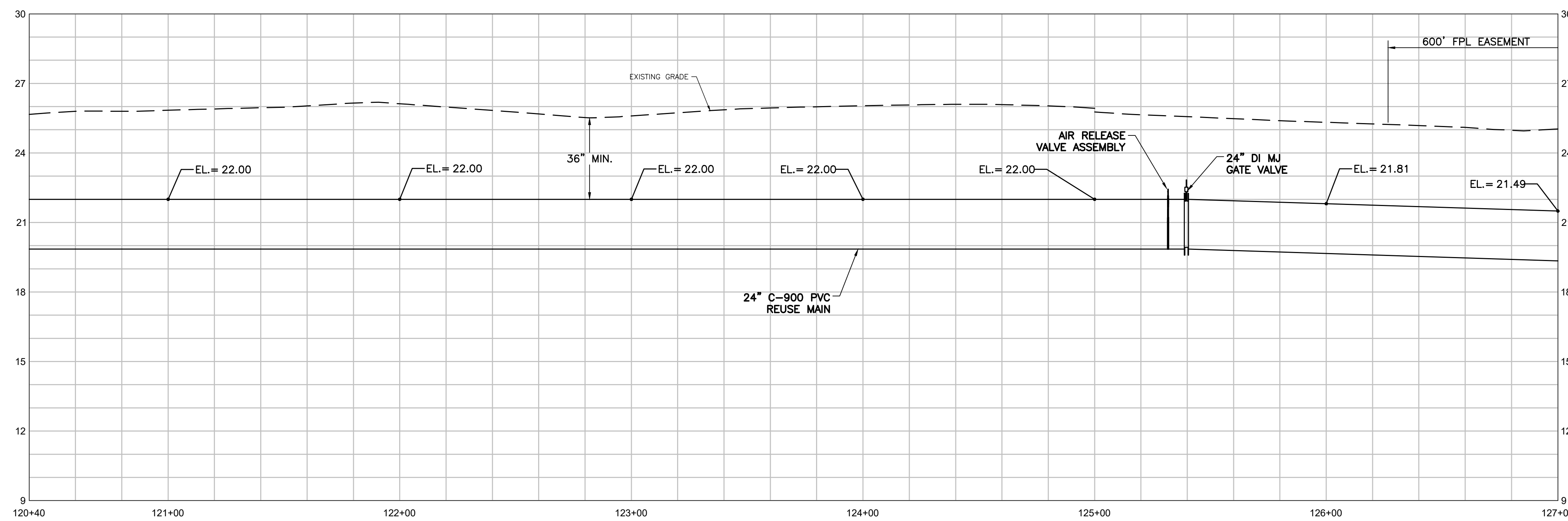
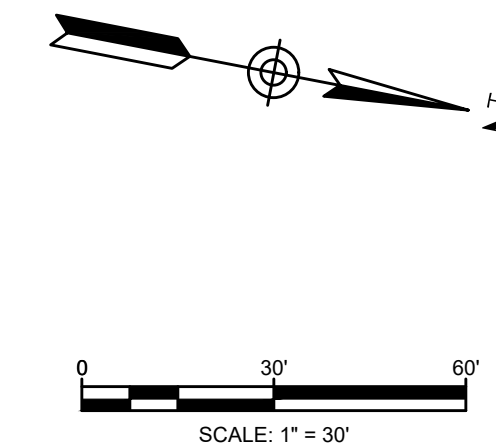
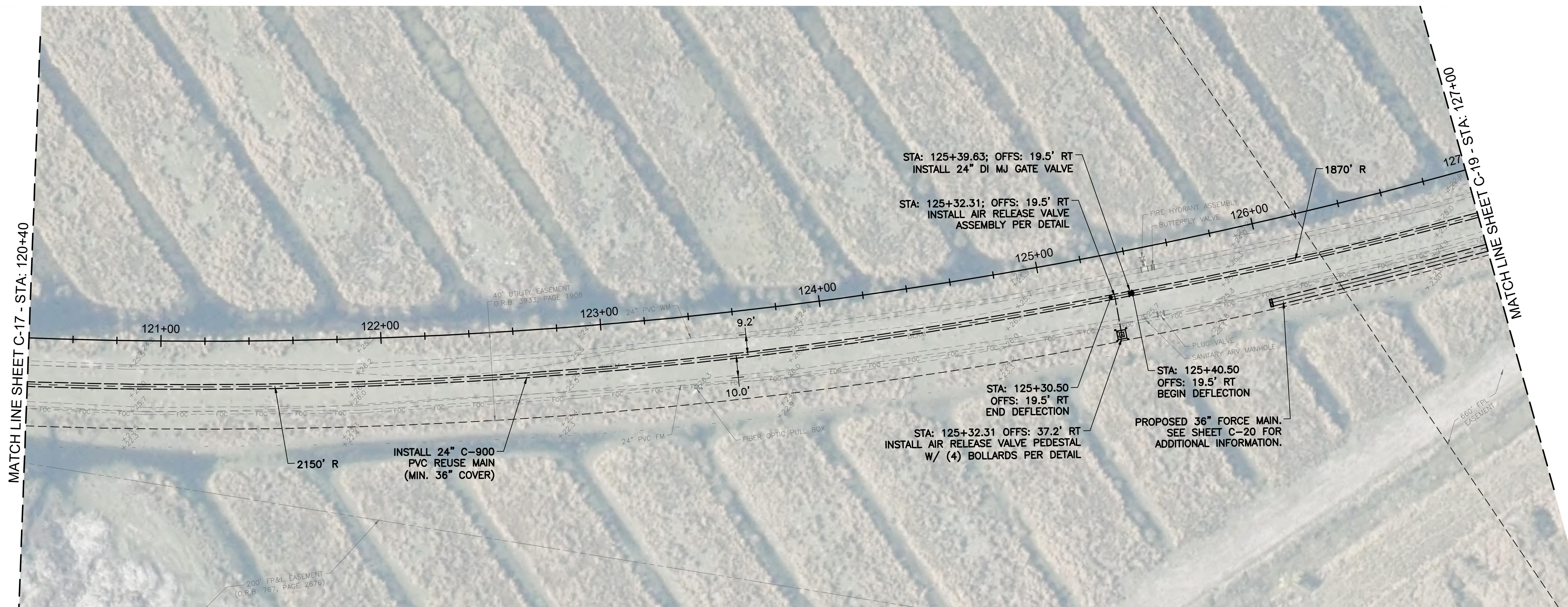
PLAN AND PROFILE
 STA: 113+80 TO STA: 120+40

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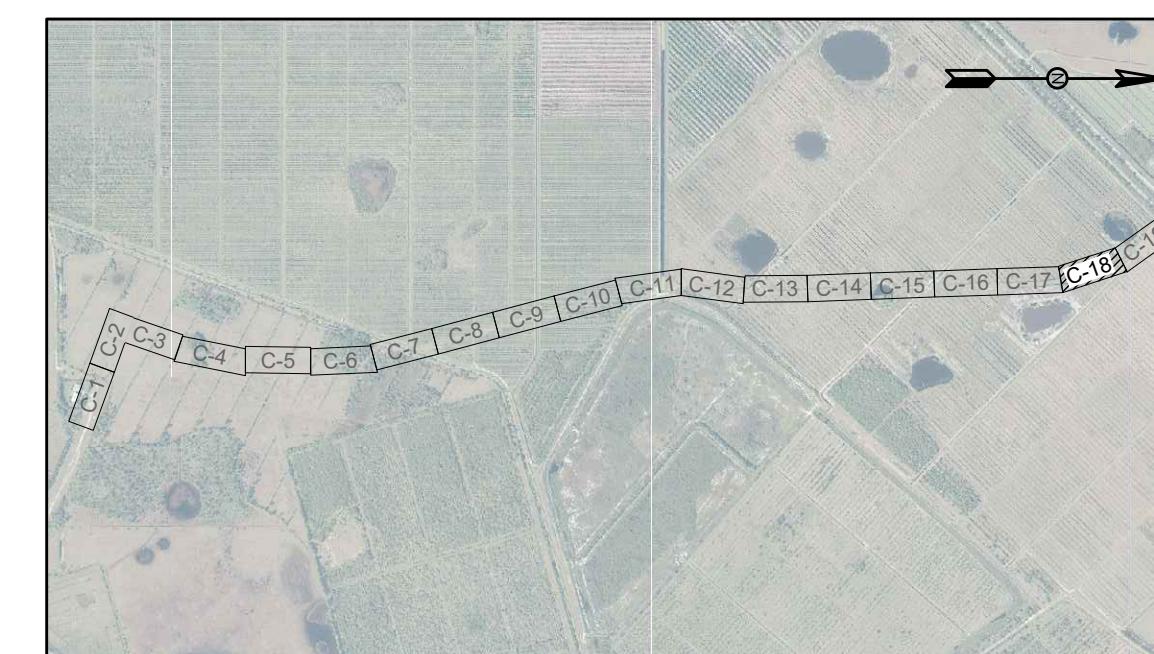
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C-17



PROFILE VIEW - STA: 120+40 TO STA: 127+00
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: 1"=3'

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KEY MAP

Date: 10-27-21
 Scale: AS NOTED
 Design By: BF
 Drawn By: RR
 Check By: DH
 City of Port St. Lucie, Glades to Tradition Reuse Water Main
 HOLTZ CONSULTING ENGINEERS, INC.
 CURTIS D. ROBINSON, P.E.
 License No: 65685

REV	DATE	REVISIONS	BY

Date: 10-27-21
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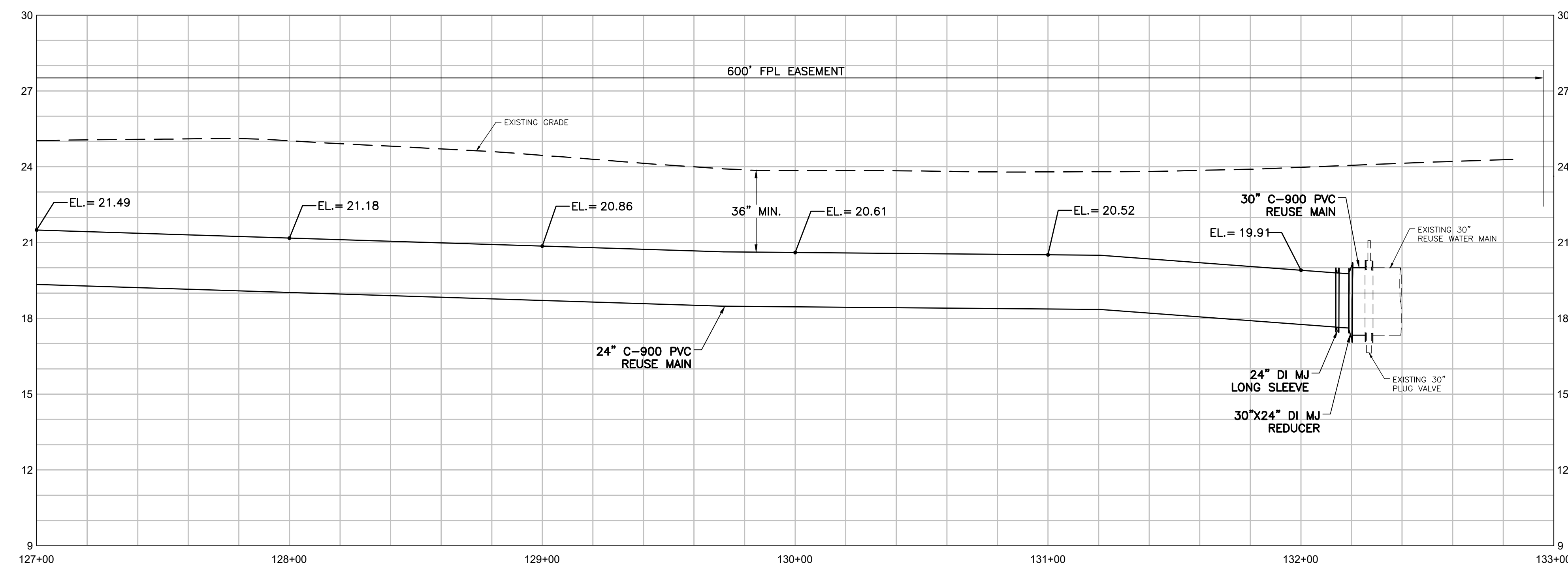
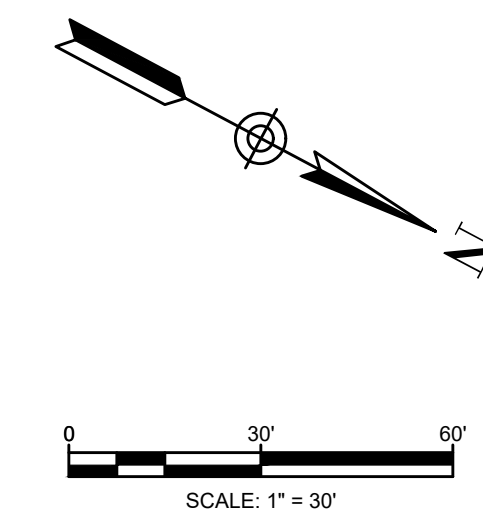
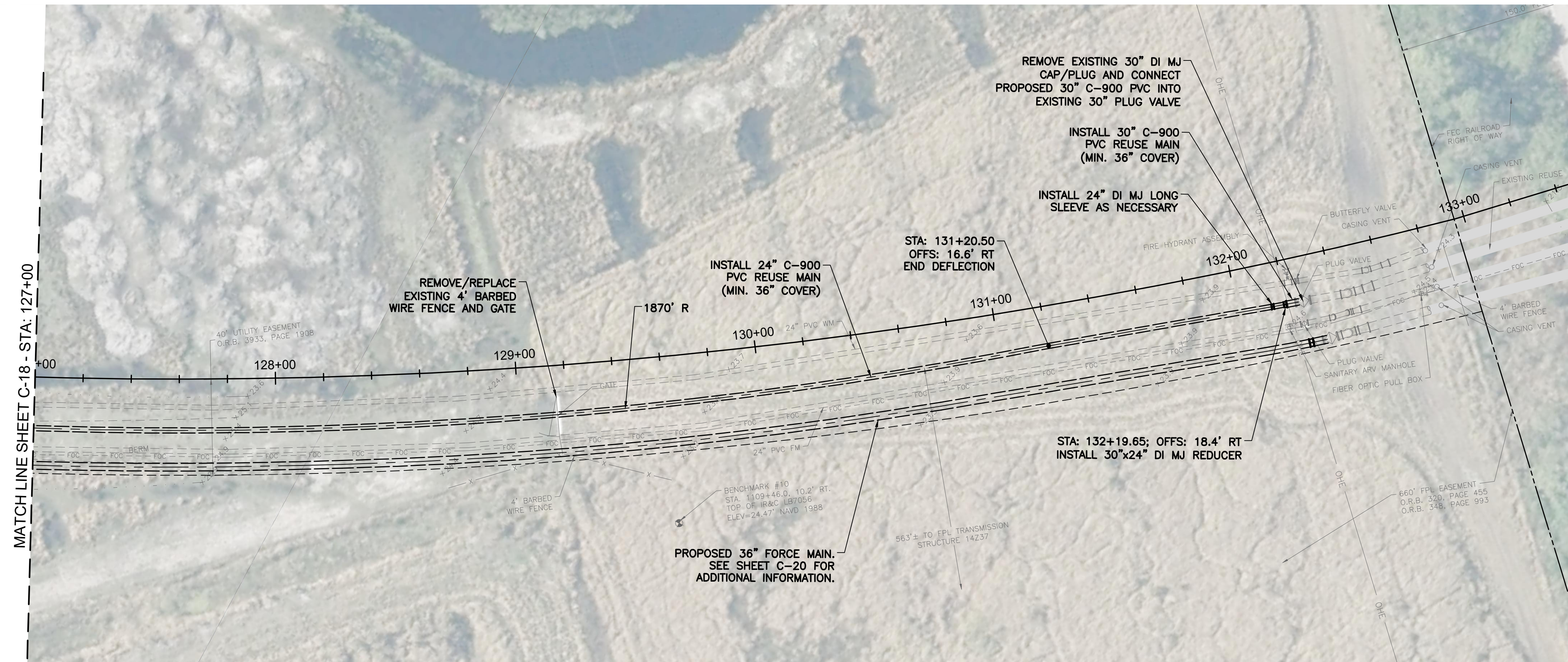
CITY OF PORT ST. LUCIE
 GLADES TO TRADITION
 REUSE WATER MAIN

PLAN AND PROFILE
 STA: 120+40 TO STA: 127+00

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C-18



PROFILE VIEW - STA: 127+00 TO STA: 133+00
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: 1"=3'

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 5. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH FPL ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES AND VERIFY PROPER CLEARANCE BELOW EXISTING OVERHEAD POWER LINES PRIOR TO WORKING WITHIN THE VICINITY.
 6. CONTRACTOR SHALL PLAN ALL UTILITY CROSSINGS TO CONFIRM HORIZONTAL AND VERTICAL SEPARATIONS PRIOR TO CONSTRUCTION.
 7. PROPOSED REUSE WATER MAIN SHALL HAVE A MINIMUM 36" COVER UNLESS OTHERWISE NOTED.
 8. CONTRACTOR SHALL ADEQUATELY RESTRAIN ALL EXISTING VALVES, FITTINGS, PIPES, AND APPURTENANCES AS NECESSARY TO MAKE CONNECTIONS AT NO ADDITIONAL COST TO THE OWNER.



KEY MAP

Date: 1/24/2022 - 8:52 AM - Plotter Job: Russell Ryan - Holtz Consulting Engineers
 Document Path: C:\Sharon\Projects\City of Port St. Lucie\Glades to Tradition Reuse Water Main\Drawings\Plan and Profile\Layout\Layout - C-19 - Plotter Job: Russell Ryan - Holtz Consulting Engineers

REV	DATE	REVISIONS	BY

Date: 10-27-21
 Scale: AS NOTED
 Design By: BF
 Drawn By: RR
 Check By: DH

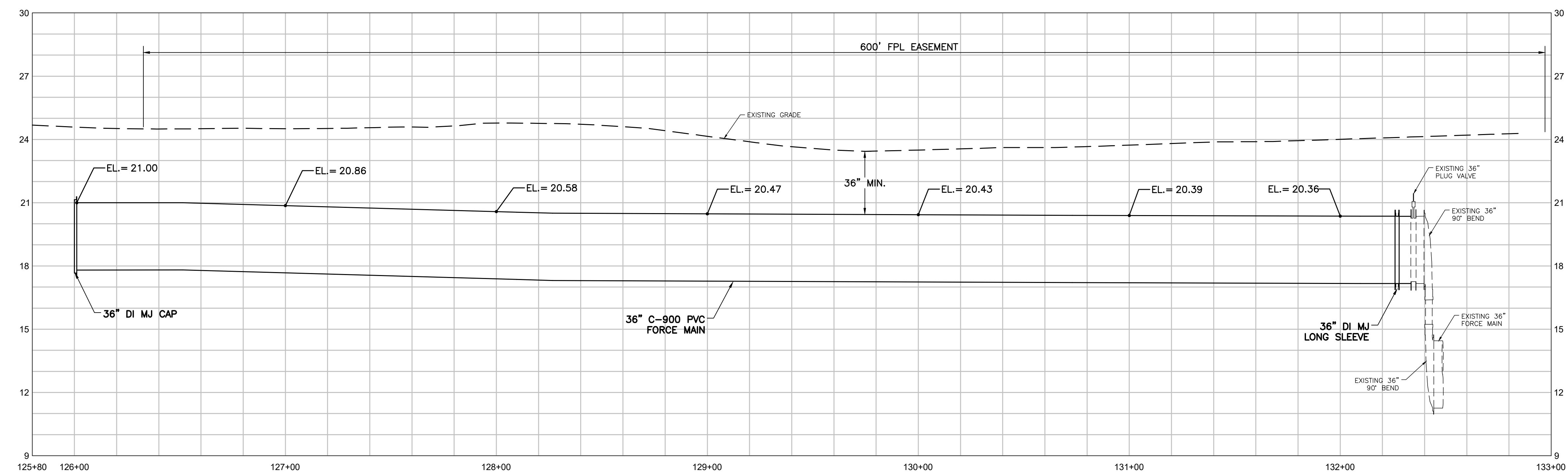
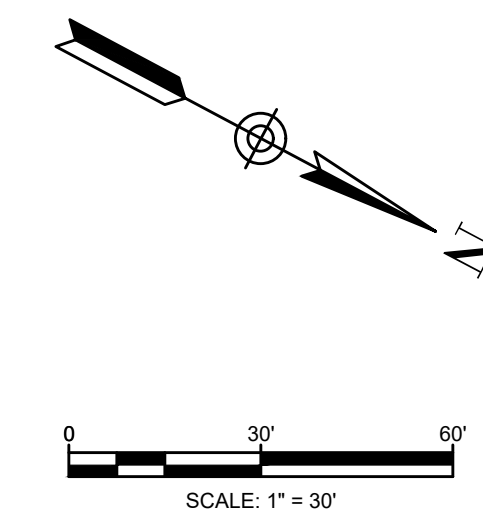
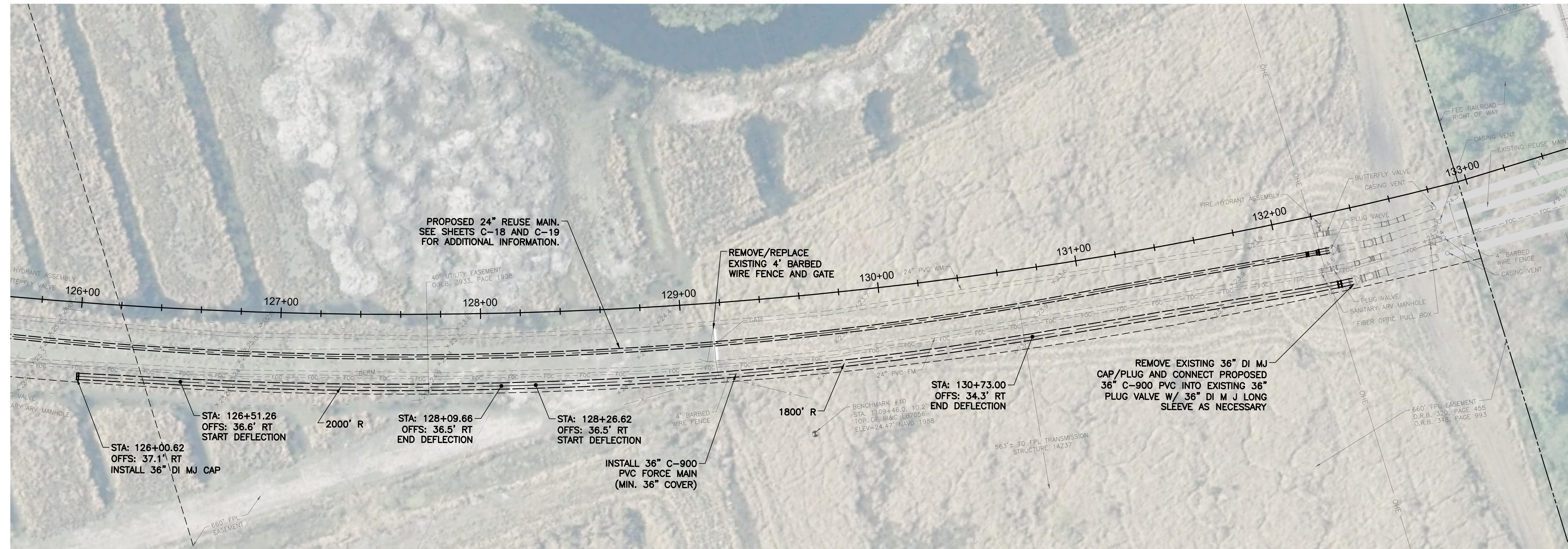
CITY OF PORT ST. LUCIE
 GLADES TO TRADITION
 REUSE WATER MAIN

PLAN AND PROFILE
 STA: 127+00 TO STA: 133+00

HOLTZ CONSULTING ENGINEERS, INC.
 607 SW ST. LUCIE CRESCENT, SUITE 103
 STUART, FLORIDA 34994
 PH. (772) 919-4905
 Cert. No. 26960

CURTIS D. ROBINSON, P.E.
 License No: 65685

C-19



PROFILE VIEW - STA: 125+80 TO STA: 133+00
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: 1"=3'

- NOTES:**
1. THE LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AND ARE BASED UPON LIMITED RECORD DRAWING INFORMATION, GIS, AND SURFACE SURVEY. CONTRACTOR SHALL VERIFY EXISTING HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITY CROSSINGS AND FOR UTILITIES IN CLOSE PROXIMITY OF PROPOSED PIPING. PROTECT AND TEMPORARILY SUPPORT ALL UTILITIES WITHIN EXCAVATION DURING THE WORK IN ADDITION TO PROTECTING UTILITIES BELOW DRILLING EQUIPMENT FROM DAMAGE.
 2. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, WHETHER SHOWN OR NOT, AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
 3. ELEVATIONS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). TO CONVERT FROM NAVD88 TO NGVD29 ADD 1.45'.
 4. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
 5. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH FPL ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES AND VERIFY PROPER CLEARANCE BELOW EXISTING OVERHEAD POWER LINES PRIOR TO WORKING WITHIN THE VICINITY.
 6. CONTRACTOR SHALL PLAN ALL UTILITY CROSSINGS TO CONFIRM HORIZONTAL AND VERTICAL SEPARATIONS PRIOR TO CONSTRUCTION.
 7. PROPOSED FORCE MAIN SHALL HAVE A MINIMUM 36" COVER UNLESS OTHERWISE NOTED.
 8. CONTRACTOR SHALL ADEQUATELY RESTRAIN ALL EXISTING VALVES, FITTINGS, PIPES, AND APPURTENANCES AS NECESSARY TO MAKE CONNECTIONS AT NO ADDITIONAL COST TO THE OWNER.



KEY MAP

Date: 1/24/2022 - 9:53 AM - Plotter by: Russell Ryan - Plotter: C:\Shimadzu\Plotter - Document Path: C:\Users\jshimadzu\Documents\Projects\City of Port St. Lucie\Glades to Tradition\Reuse Water Main\36" Force Main Extension\36" Force Main Extension.dwg - Date: 1/24/2022 - 9:53 AM - Plotter by: Russell Ryan - Plotter: C:\Shimadzu\Plotter - Document Path: C:\Users\jshimadzu\Documents\Projects\City of Port St. Lucie\Glades to Tradition\Reuse Water Main\36" Force Main Extension\36" Force Main Extension.dwg

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Date: 10-27-21
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 Design By: BF
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CITY OF PORT ST. LUCIE
 GLADES TO TRADITION
 REUSE WATER MAIN

36" FORCE MAIN EXTENSION
 PLAN AND PROFILE
 STA: 125+80 TO STA: 133+00

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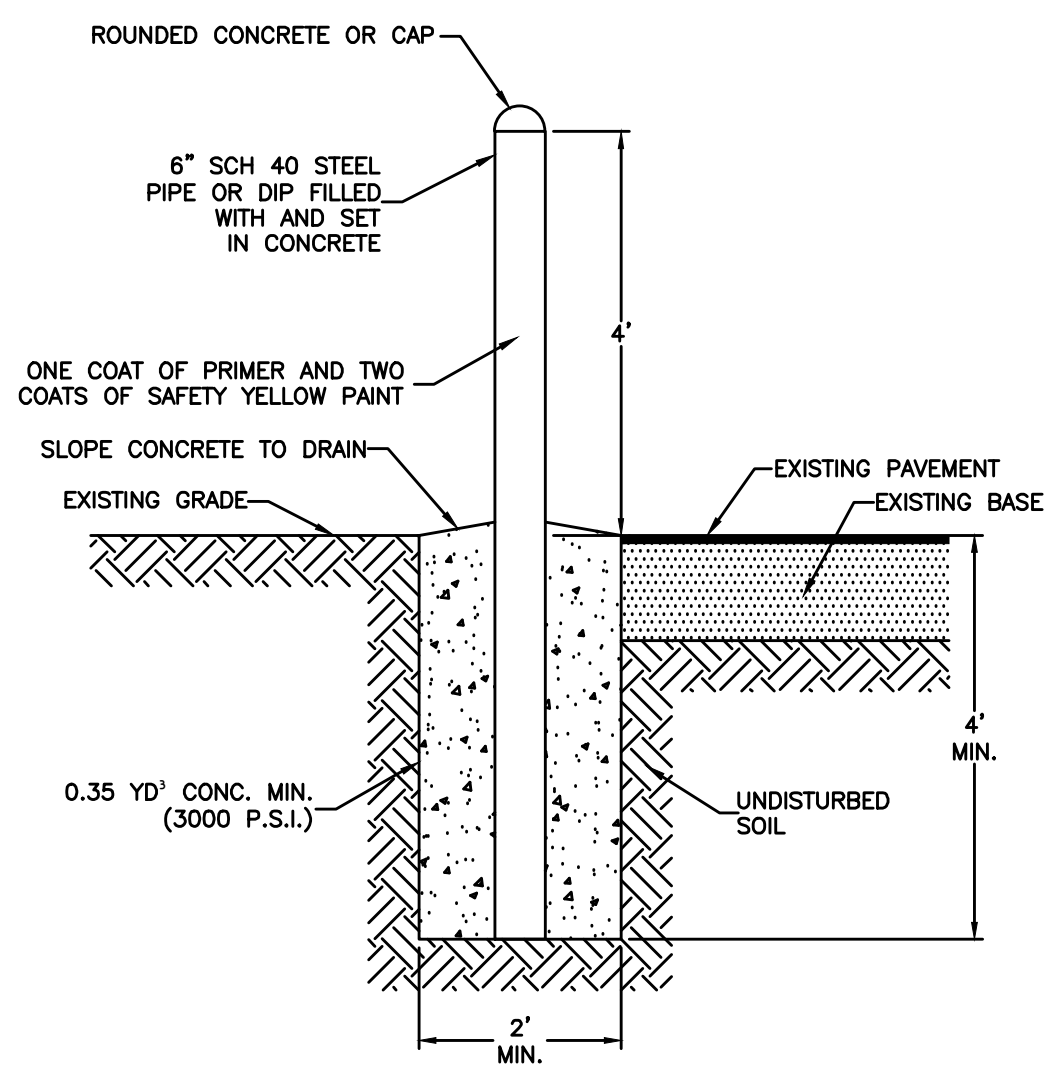
C-20

MINIMUM SEPARATION BETWEEN PSLUSD FACILITIES AND OTHER UTILITIES

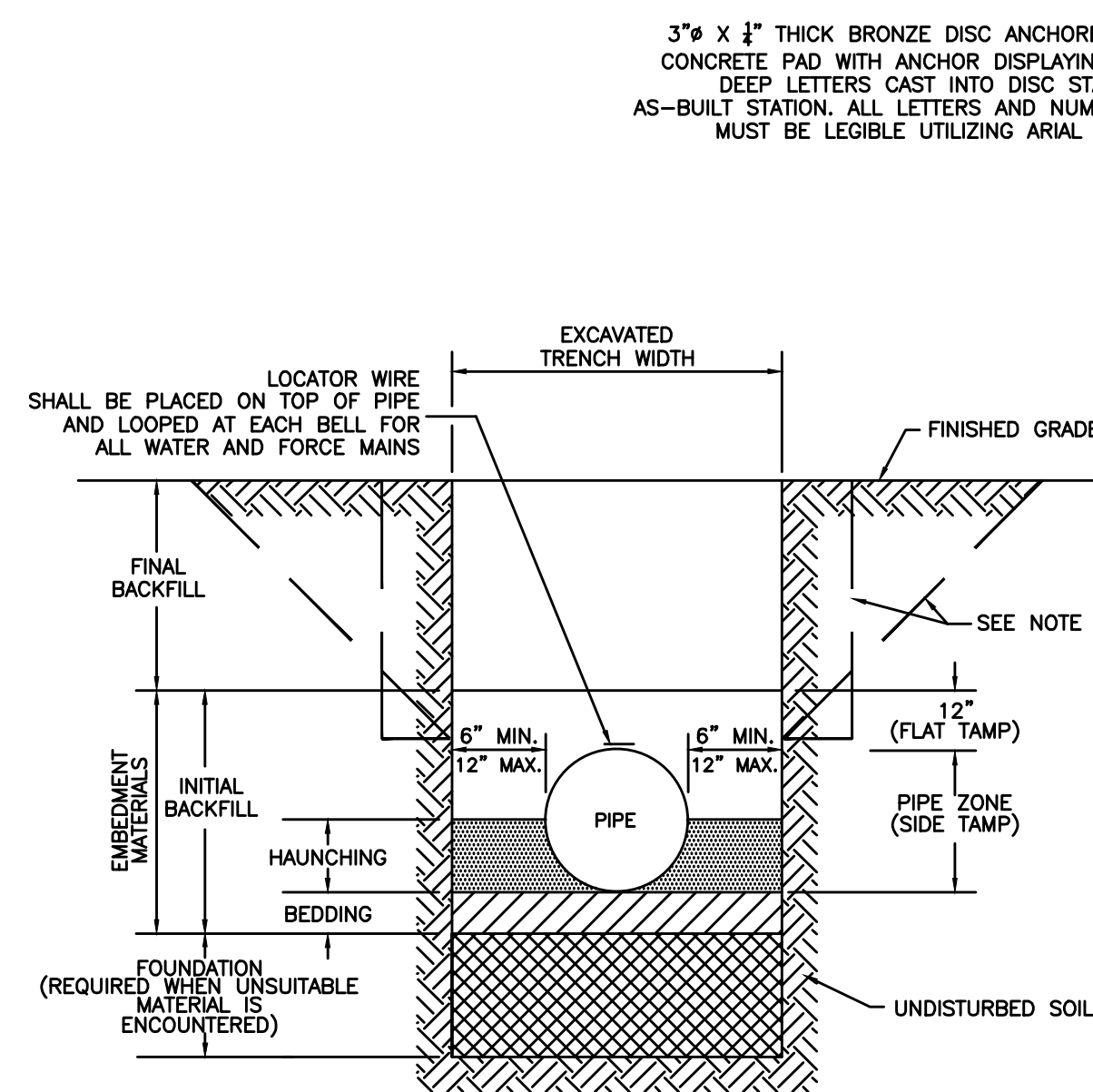
OTHER PIPE	HORIZONTAL SEPARATION	CROSSINGS (1)	JOINT SPACING @ CROSSINGS (FULL JOINT CENTERED)
GRAVITY OR PRESSURE SANITARY SEWER, SANITARY SEWER FORCE MAIN, RECLAIMED WATER (2), (3), VACUUM SANITARY SERVICE, STORM SEWER, STORM SEWER FORCE MAIN	WATER MAIN 10' MINIMUM	WATER MAIN 18" MINIMUM	WATER MAIN 6" MINIMUM
ALL OTHER FACILITIES, INCLUDING BUT NOT LIMITED TO: TELEPHONE, CABLE TV, POWER, ETC.	PSLUSD FACILITY (4) 5' MINIMUM	PSLUSD FACILITY (4) 18" MINIMUM	WATER MAIN 6" MINIMUM
ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM	10' MINIMUM

- (1) WATER MAIN SHOULD CROSS OVER OTHER PIPE. WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 18".
- (2) RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
- (3) RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
- (4) A PSLUSD FACILITY INCLUDES MAINS AND STRUCTURES FOR POTABLE WATER, WASTEWATER AND RECLAIMED WATER.

STANDARD SEPARATION REQUIREMENTS
NOT TO SCALE

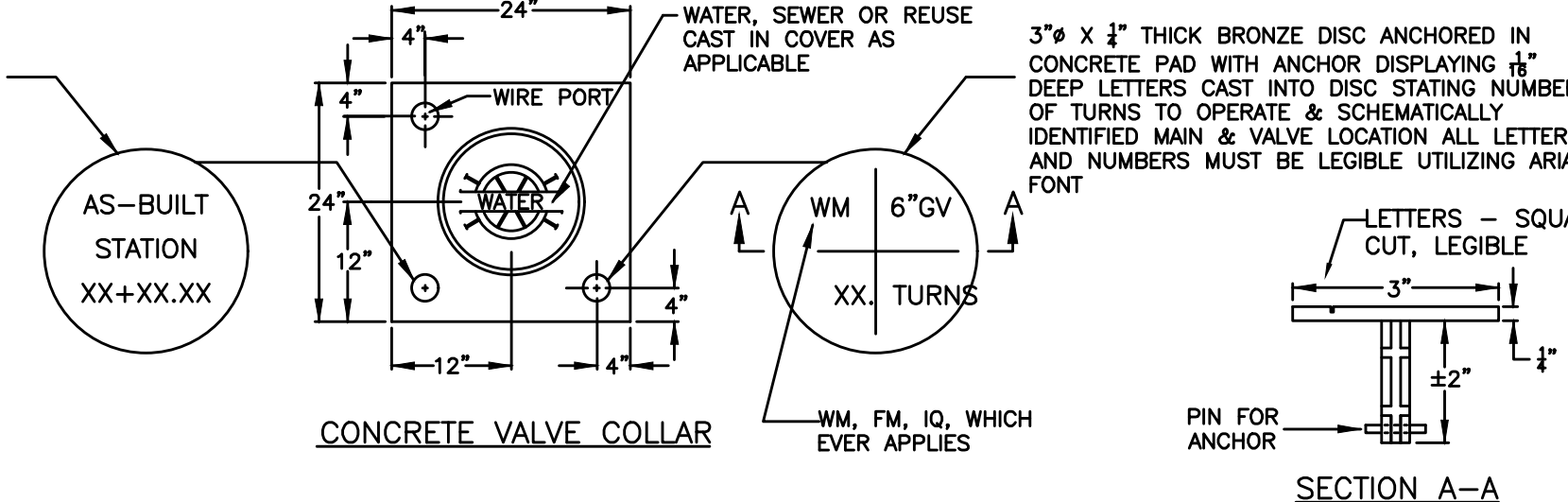


BOLLARD DETAIL
NOT TO SCALE



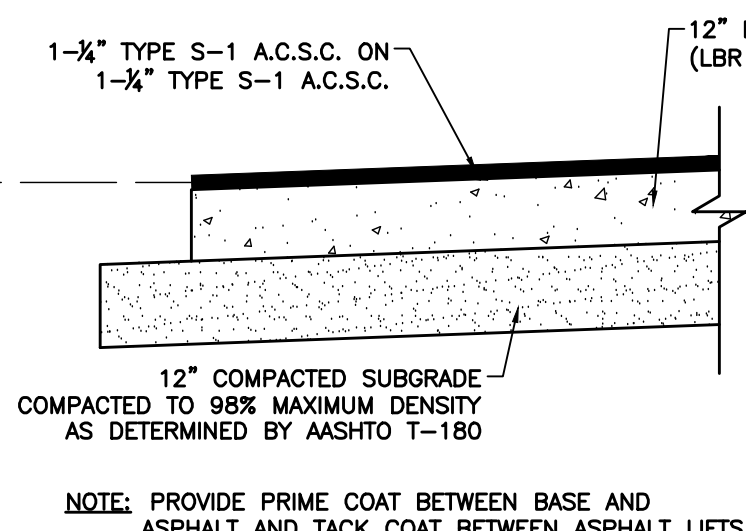
- NOTES:**
1. FOR TRENCHES REQUIRING SHEETING, SHORING, STAY BRACING, TRENCH JACKS OR TRENCH BOX, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SUPPORTS.
 2. IF THE MAXIMUM TRENCH WIDTH MUST BE EXCEEDED, THE AREA OUTSIDE OF THE MAXIMUM EMBEDMENT SHALL BE COMPACTED TO FINAL BACKFILL REQUIREMENTS. IF THE PIPE IS INSTALLED IN A COMPACTED EMBANKMENT, THE EMBANKMENT SHALL BE IN PLACE AND COMPACTED TO 12" MIN. COVER BEFORE INSTALLATION OF PIPE.
 3. IF BEDDING IS REQUIRED TO BRING TRENCH BOTTOM UP TO GRADE AND PROVIDE UNIFORM AND ADEQUATE LONGITUDINAL SUPPORT UNDER THE PIPE, THEN A MINIMUM COMPACTED DEPTH OF 4 TO 6 INCHES OF SELECT EMBEDMENT MATERIAL IS REQUIRED.
 4. THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF THE FLORIDA TRENCH SAFETY ACT.
 5. AN APPROVED LOCATOR WIRE SHALL BE USED.
 6. EARTHWORK, EXCAVATION, BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE WITH PSLUSD STANDARDS.

STANDARD PIPE TRENCH CROSS SECTION
NOT TO SCALE

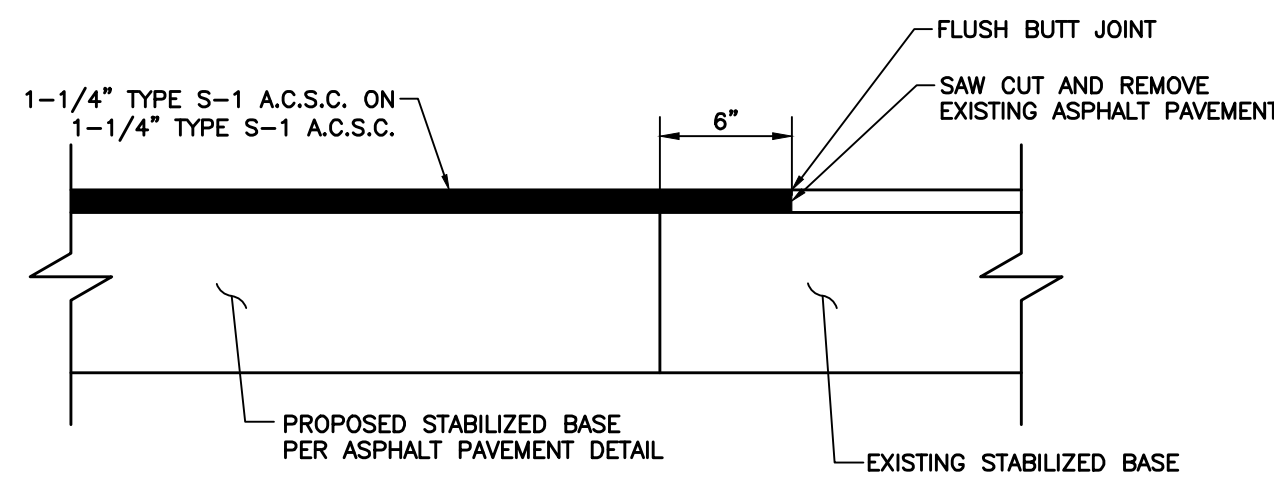


- NOTES:**
1. WHEN TOP OF OPERATING NUT IS DEEPER THAN 30", A HIGH STRENGTH STEEL EXTENSION WILL BE REQUIRED TO BRING OPERATING NUT 24"-30" BELOW FINISHED GRADE. A STEEL CENTERING PLATE, WELDED TO THE EXTENSION, IS ALSO REQUIRED.
 2. A VALVE BOX ALIGNMENT DEVICE SHALL BE PROVIDED TO ELIMINATE SHIFTING OF THE VALVE BOX AGAINST THE OPERATING NUT.
 3. C900 OR SDR-26 P.V.C. RISER PIPE SHALL BE ADDED TO EXTEND THE VALVE BOX IF NEEDED.
 4. RPM'S SHALL NOT BE INSTALLED IN CROSSWALKS OR PEDESTRIAN WALKWAYS.
 5. THE TOP SIDE OF THE VALVE BOX COVER AND THE INSIDE OF TOP SECTION OF THE VALVE BOX SHALL BE PAINTED BLUE FOR WATER MAINS, GREEN FOR SEWER MAINS AND PURPLE FOR RECLAIMED WATER MAINS.

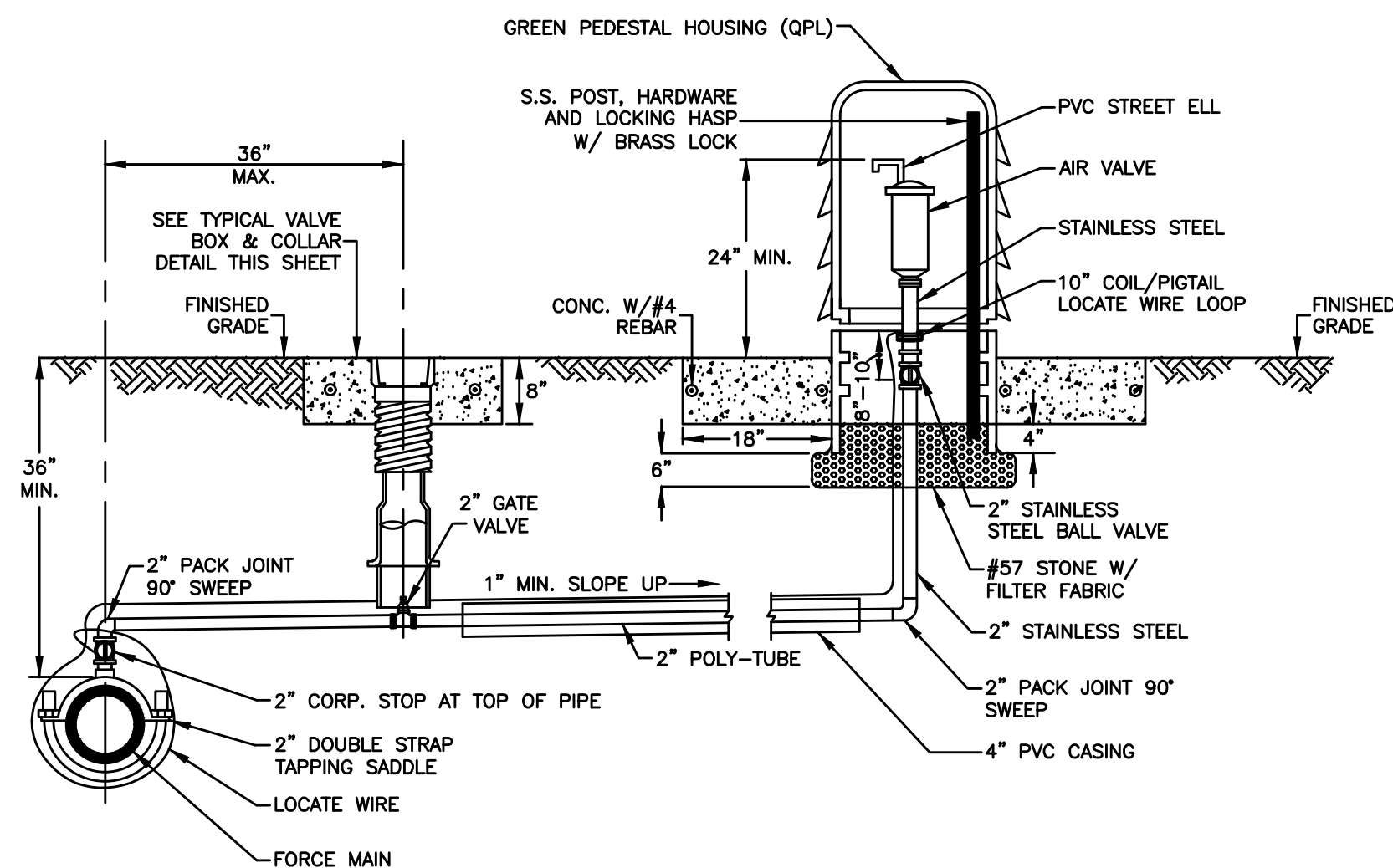
TYPICAL VALVE BOX AND COLLAR IN UN-PAVED AREA
NOT TO SCALE



ASPHALT PAVEMENT DETAIL
NOT TO SCALE

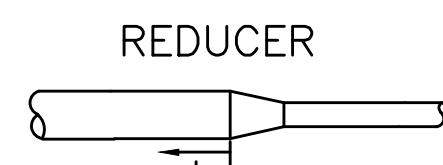


ASPHALT PAVEMENT JOINT
NOT TO SCALE



- NOTES:**
1. ALL AIR RELEASE VALVES SHALL BE INSTALLED IN ACCORDANCE WITH THIS DETAIL. FORCE MAIN AIR VALVE & ACCESS MANHOLE SHALL BE USED ONLY AS DIRECTED BY PSLUSD IN WRITING.
 2. AIR VALVE, PIPING AND APPURTENANCES SHALL BE IN ACCORDANCE WITH PSLUSD UTILITY STANDARDS.
 3. THE AIR VALVE SHALL BE SIZED BY THE ENGINEER-OF-RECORD (EOR) BASED ON MANUFACTURER'S RECOMMENDATION. THE EOR SHALL CONSULT WITH THE PSLUSD REGARDING THE TYPE OF THE VALVE TO BE USED AND LOCATION.

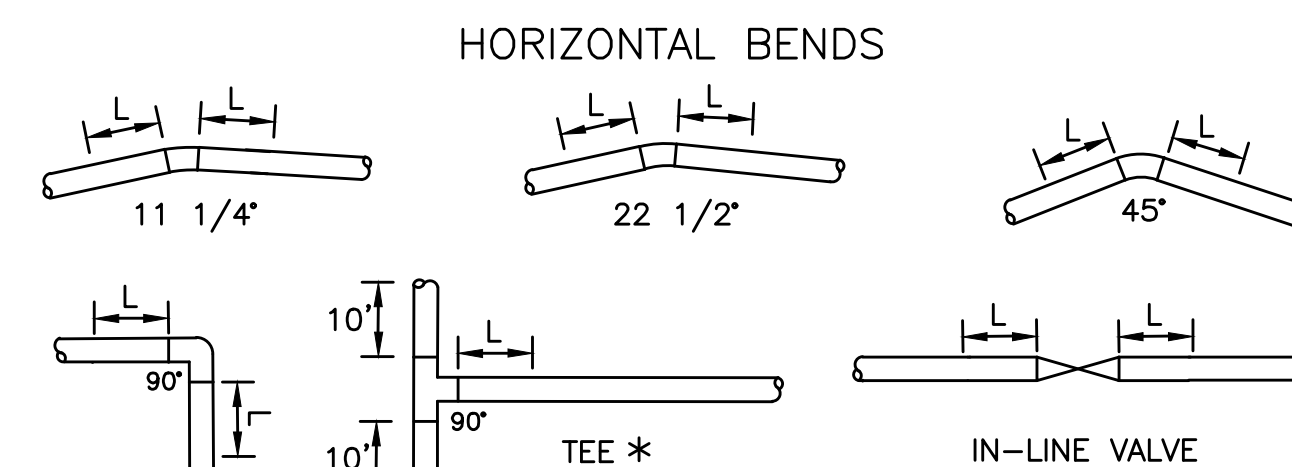
AUTOMATIC AIR RELEASE VALVE FOR FORCE MAINS IN UNPAVED AREAS
NOT TO SCALE



DIAMETER	L = RETRAINED LENGTH AT LARGER SIZE OF REDUCER (FEET)															
	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"	48"		
4"	29	52	71	89	105	121	136	151	179	217	253	285	318			
6"		31	53	74	93	111	127	143	172	211	249	282	315			
8"			29	54	76	96	114	131	163	204	243	277	310			
10"				30	55	78	98	117	151	195	235	271	305			
12"					30	56	79	100	137	184	228	263	299			
14"						30	56	79	120	171	216	255	292			
16"							30	56	101	156	204	245	283			
18"								30	80	140	190	233	273			
20"									56	121	175	221	263			
24"										78	141	192	238			
30"											78	140	194			
36"												75	139			
42"													75			

- NOTES:**
1. THE REQUIREMENTS SET FORTH ABOVE WERE CALCULATED FOR PVC PIPE BASED UPON THE FOLLOWING ASSUMPTIONS:
 - SOIL CONDITIONS: SILTY SAND (SM)
 - TRENCH TYPE: 3 (PIPE BEDDED IN 4" MINIMUM OF LOOSE SOIL WITH BACKFILL LIGHTLY COMPACTED)
 - MINIMUM COVER: 3 FT
 - SAFETY FACTOR: 1.5
 - TEST PRESSURE: 150 PSI
 2. IF FIELD CONDITIONS DIFFER FROM THE ABOVE, THE ENGINEER-OF-RECORD (EOR) SHALL SUBMIT CALCULATIONS BASED ON THE FIELD CONDITION FOR REVIEW AND APPROVAL OF PSLUSD.

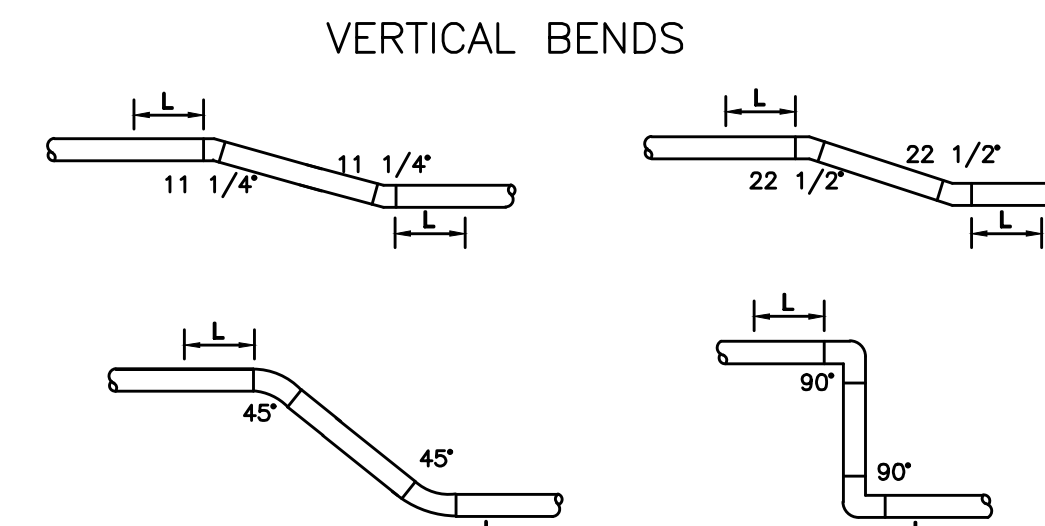
PIPELINE RESTRAINT REQUIREMENTS (REDUCER)
NOT TO SCALE



DIAMETER	HORIZONTAL - L (FEET)				TEE* (BRANCH)	VALVES OR DEAD END
	11-1/4"	22-1/2"	45"	90"		
4"	2	4	8	18	20	39
6"	3	5	11	25	36	55
8"	4	7	14	33	52	72
10"	4	8	16	39	65	87
12"	5	9	19	45	80	102
14"	5	11	21	51	93	116
16"	6	12	24	57	107	131
18"	7	13	26	63	120	145
20"	7	14	29	68	133	159
24"	8	16	33	79	157	185
30"	10	19	39	93	192	222
36"	11	21	44	106	225	257
42"	12	24	49	117	254	289
48"	13	26	53	128	283	321

- NOTES:**
1. THE REQUIREMENTS SET FORTH ABOVE WERE CALCULATED FOR PVC PIPE BASED UPON THE FOLLOWING ASSUMPTIONS:
 - SOIL CONDITIONS: SILTY SAND (SM)
 - TRENCH TYPE: 3 (PIPE BEDDED IN 4" MINIMUM OF LOOSE SOIL WITH BACKFILL LIGHTLY COMPACTED)
 - MINIMUM COVER: 3 FT
 - SAFETY FACTOR: 1.5
 - TEST PRESSURE: 150 PSI
 - * SIZE ON SIZE TEE & 5' LENGTH ALONG RUN
 2. IF FIELD CONDITIONS DIFFER FROM THE ABOVE, THE ENGINEER-OF-RECORD (EOR) SHALL SUBMIT CALCULATIONS BASED ON THE FIELD CONDITION FOR REVIEW AND APPROVAL OF PSLUSD.

PIPELINE RESTRAINT REQUIREMENTS (HORIZONTAL)
NOT TO SCALE



DIAMETER	VERTICAL OFFSET - L (FEET)							
	11-1/4"		22-1/2"		90"			
	UPPER BEND	LOWER BEND	UPPER BEND	LOWER BEND	UPPER BEND	LOWER BEND		
4"	4	2	8	3	17	5	39	11
6"	6	2	11	4	23	7	55	15
8"	8	2	15	4	30	9	72	20
10"	9	3	18	5	36	10	87	24
12"	11	3	21	6	43	12	102	28
14"	12	4	24	7	49	14	116	32
16"	13	4	27	8	55	16	131	36
18"	15	4	29	8	60	17	145	40
20"	16	5	32	9	66	19	158	44
24"	19	6	37	11	77	22	185	51
30"	22	7	45	13	92	26	222	62
36"	26	8	52	15	107	30	256	71
42"	29	8	58	16	120	34	289	80
48"	32	9	64	18	133	37	320	89

- NOTES:**
1. THE REQUIREMENTS SET FORTH ABOVE WERE CALCULATED FOR PVC PIPE BASED UPON THE FOLLOWING ASSUMPTIONS:
 - SOIL CONDITIONS: SILTY SAND (SM)
 - TRENCH TYPE: 3 (PIPE BEDDED IN 4" MINIMUM OF LOOSE SOIL WITH BACKFILL LIGHTLY COMPACTED)
 - UPPER SIDE MINIMUM COVER: 3 FT
 - LOWER SIDE MINIMUM COVER: 5 FT
 - SAFETY FACTOR: 1.5
 - TEST PRESSURE: 150 PSI
 2. WHEN CONDITIONS DIFFER FROM THE ABOVE, THE ENGINEER-OF-RECORD (EOR) SHALL SUBMIT CALCULATIONS FOR REVIEW AND APPROVAL OF PSLUSD.
 3. ALL JOINTS BETWEEN UPPER AND LOWER BENDS SHALL BE RESTRAINED.

PIPELINE RESTRAINT REQUIREMENTS (VERTICAL)
NOT TO SCALE

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 Date: 7/27/2022 9:53 AM
 Plotted by: Russell Boyd

DATE	BY	REVISIONS

Date: 10-27-21
 Scale: AS NOTED
 Design By: BF
 Drawn By: RR
 Check By: DH

CITY OF PORT ST. LUCIE
 GLADES TO TRADITION
 REUSE WATER MAIN

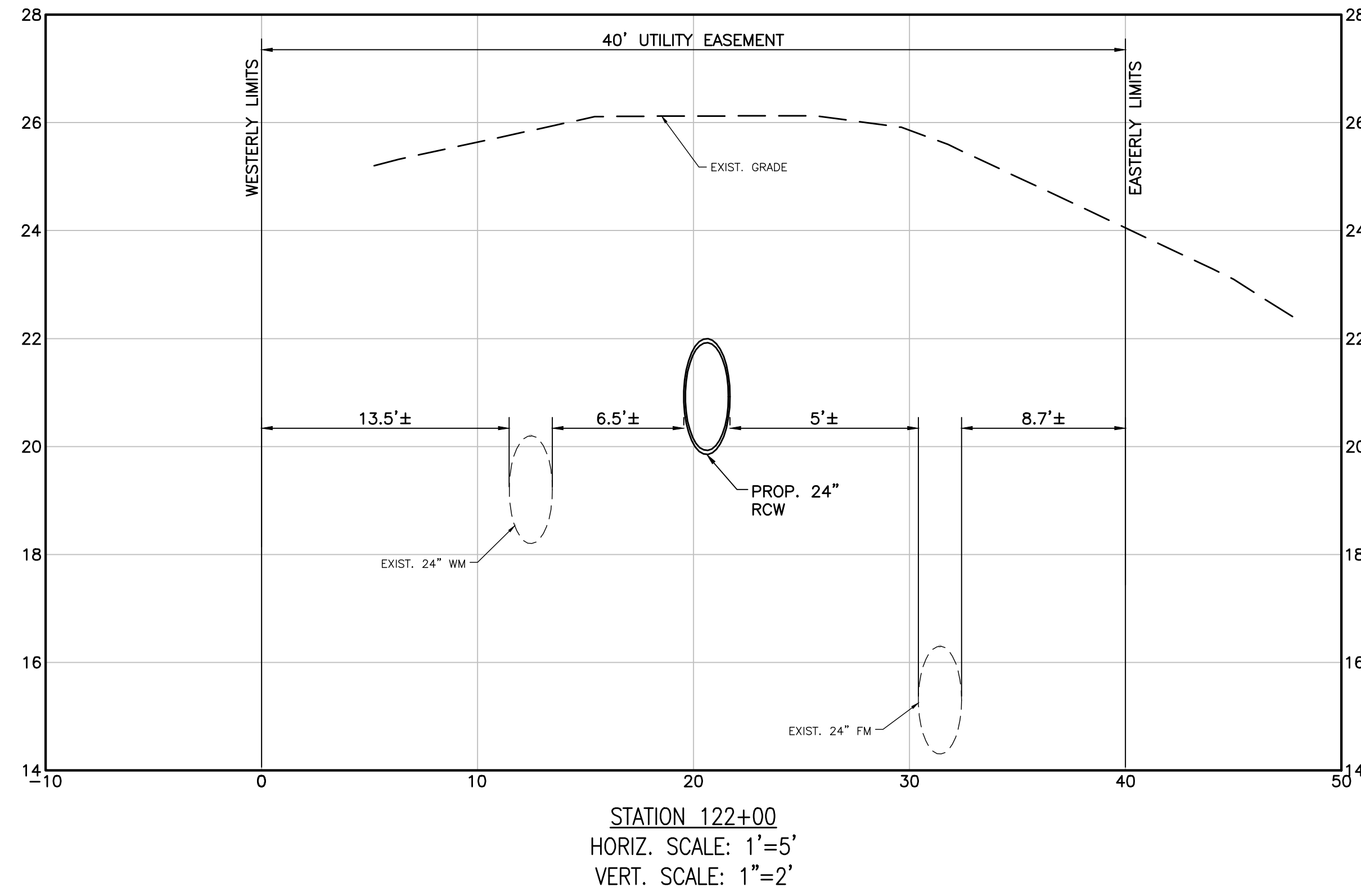
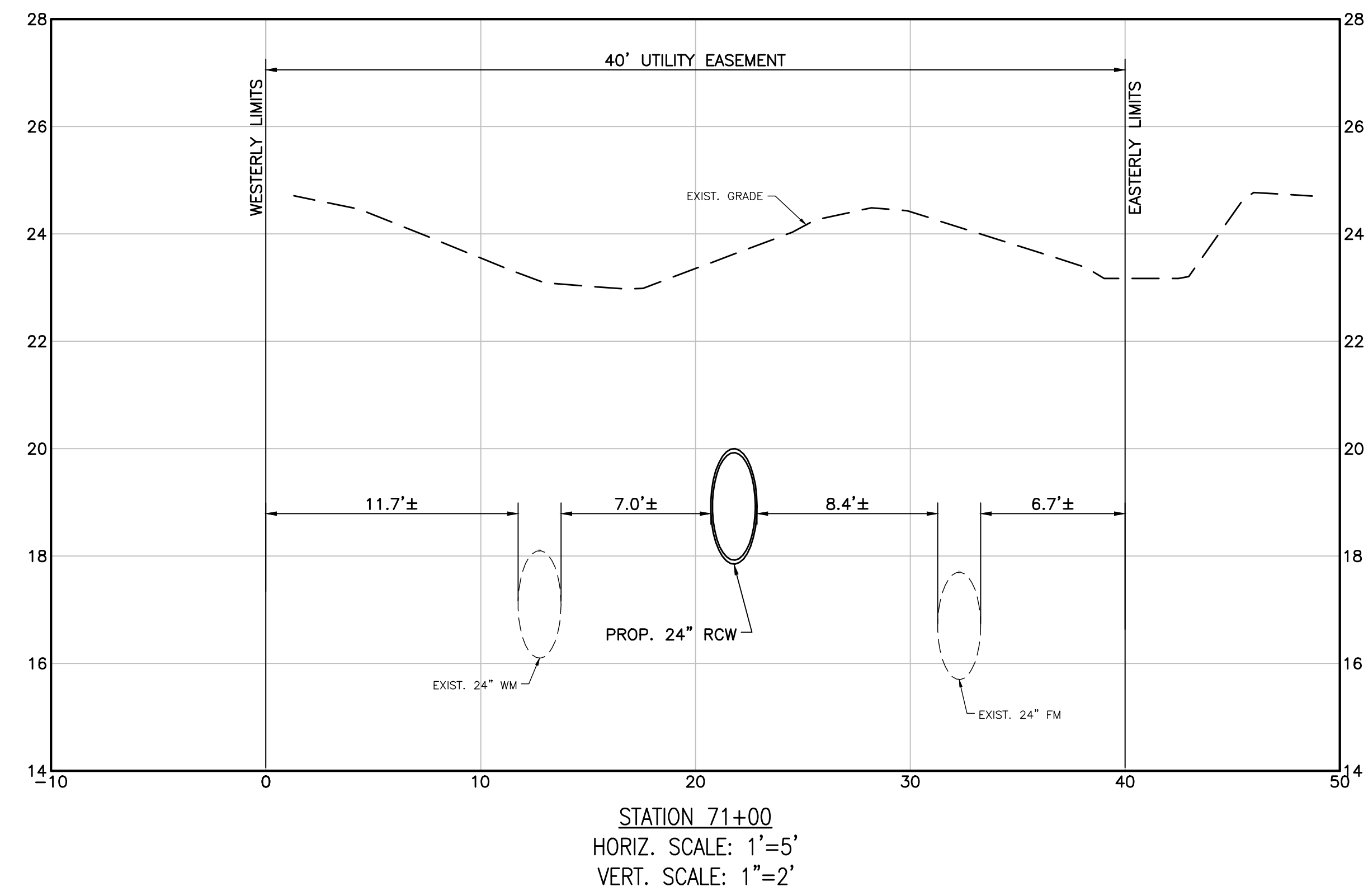
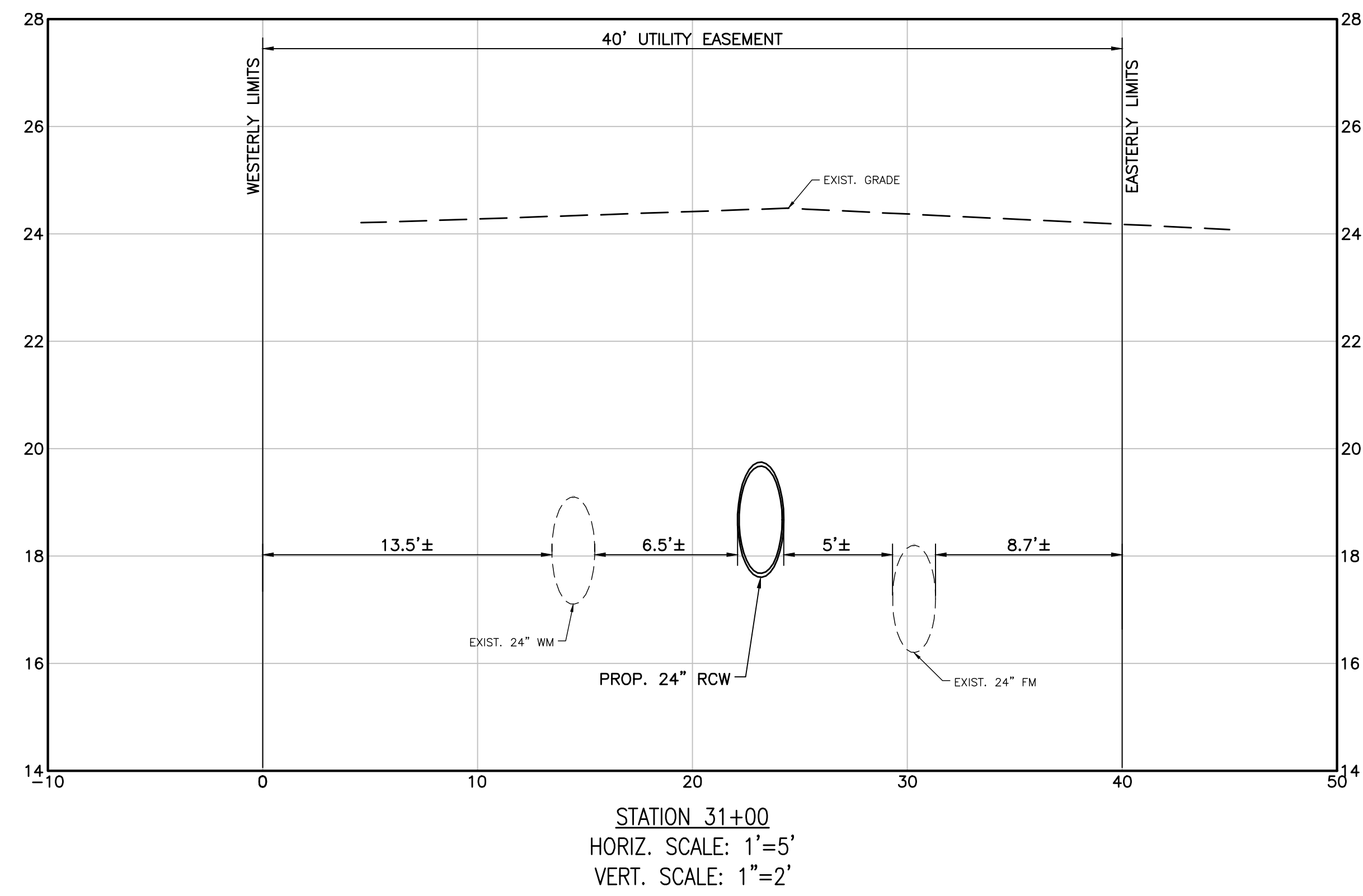
DETAILS

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D-1

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CITY OF PORT ST. LUCIE
 GLADES TO TRADITION
 REUSE WATER MAIN

CROSS SECTIONS

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