

POLK COUNTY UTILITIES, FLORIDA UTILITIES COMMUNITY INVESTMENT PROJECT GIBSON OAKS WATER PRODUCTION FACILITY OFF-SITE PIPELINE IMPROVEMENTS JUNE 2020

RESERVED FOR COUNTY
APPROVALS

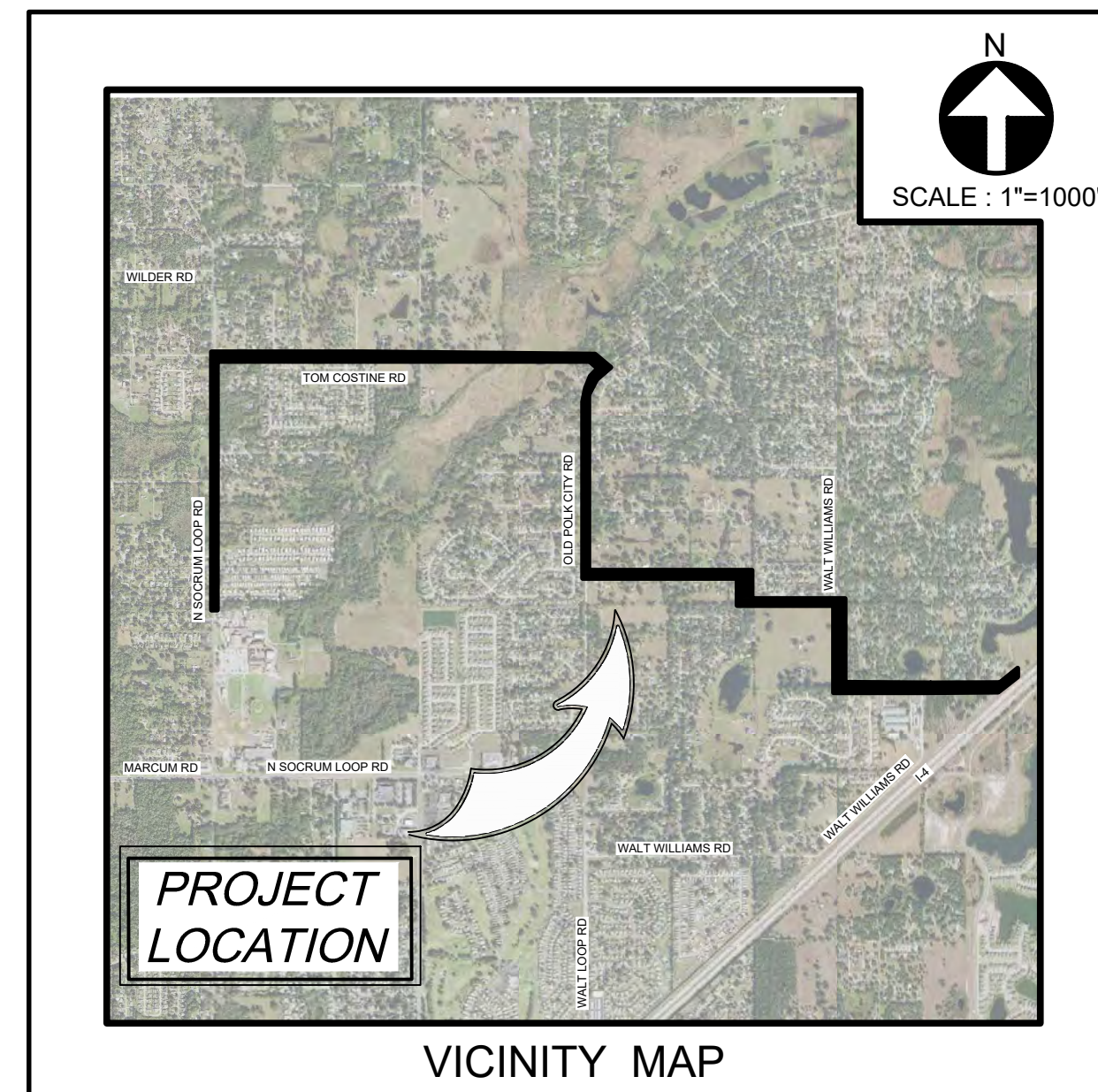
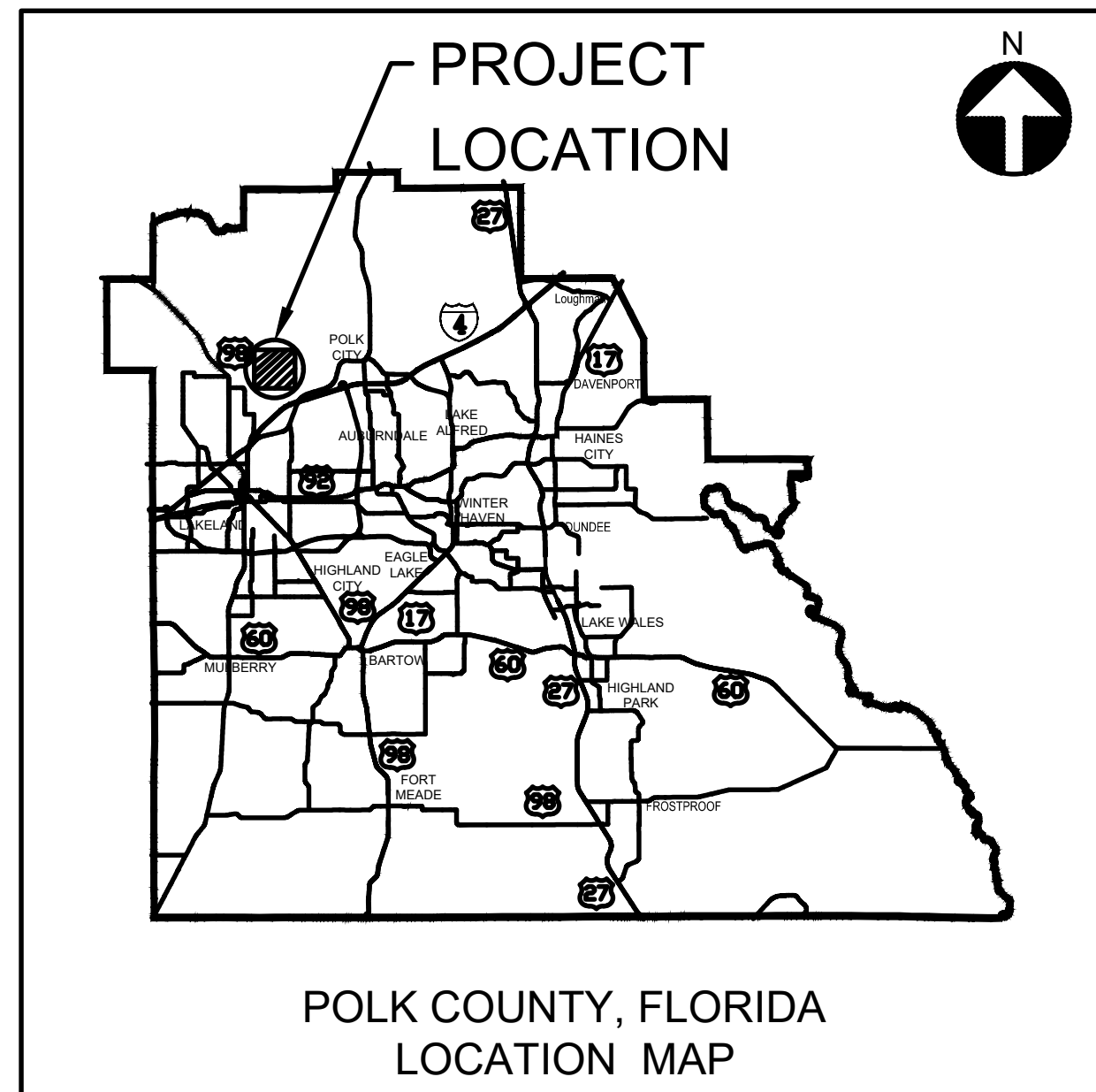
DEP WATER PERMIT	#	_____
DEP SEWER PERMIT	#	_____
FDOT PERMIT	#	_____
FDOT R/W PERMIT	#	_____
FDOT UTILITY PERMIT	#	_____
COUNTY R/W PERMIT	#	_____
COUNTY BLDG PERMIT	#	_____
WMD PERMIT	#	_____
NPDES PERMIT	#	_____



RANGE 24E, TOWNSHIP 27S, SECTIONS 07, 08, 16, 17, 18
LAKELAND, FL 33809
PCU PROJECT # 2014.04.30.0
ORACLE PROJECT # 6857014

DRAWING INDEX

DWG NO.	SHT. NO.	DESCRIPTION	DWG NO.	SHT. NO.	DESCRIPTION
GENERAL SHEETS					
G-01	1	COVER SHEET	C-27	31	HAYMARKET DR - 1
G-02	2	ABBREVIATIONS / GENERAL NOTES	C-28	32	HAYMARKET DR - 2
G-03	3	KEY SHEET	C-29	33	HAYMARKET DR - 3
G-04	4	TEST HOLE DATA TABLE	C-30	34	HAYMARKET DR - 4
PLAN PROFILE SHEETS					
C-01	5	NORTH SOCRUM LOOP RD - 1	C-31	35	HAYMARKET DR - 5
C-02	6	NORTH SOCRUM LOOP RD - 2	C-32	36	HAYMARKET DR - 6
C-03	7	NORTH SOCRUM LOOP RD - 3	C-33	37	HAYMARKET DR - 7
C-04	8	NORTH SOCRUM LOOP RD - 4	C-34	38	HAYMARKET DR - 8
C-05	9	NORTH SOCRUM LOOP RD - 5	C-35	39	HAYMARKET DR - 9
C-06	10	NORTH SOCRUM LOOP RD - 6	C-36	40	WALT WILLIAMS ROAD - 1
C-07	11	NORTH SOCRUM LOOP RD - 7	C-37	41	WALT WILLIAMS ROAD - 2
C-08	12	NORTH SOCRUM LOOP RD - 8	C-38	42	WALT WILLIAMS ROAD - 3
C-09	13	NORTH SOCRUM LOOP RD - 9	C-39	43	WALT WILLIAMS ROAD - 4
C-10	14	NORTH SOCRUM LOOP RD - 10	C-40	44	WALT WILLIAMS ROAD - 5
C-11	15	TOM COSTINE ROAD - 1	C-41	45	WALT WILLIAMS ROAD - 6
C-12	16	TOM COSTINE ROAD - 2	C-42	46	WALT WILLIAMS ROAD - 7
C-13	17	TOM COSTINE ROAD - 3	C-43	47	I-4 EASEMENT
C-14	18	TOM COSTINE ROAD - 4	C-44	48	WATER MAIN CONNECTIONS
C-15	19	TOM COSTINE ROAD - 5	C-45	49	WATER MAIN CONNECTIONS - 2
C-16	20	TOM COSTINE ROAD - 6	C-46	50	WATER MAIN CONNECTIONS - 3
CIVIL SHEETS					
C-17	21	WETLANDS - 1	SD-01	51	STANDARD DETAILS - 1
C-18	22	WETLANDS - 2	SD-02	52	STANDARD DETAILS - 2
C-19	23	WETLANDS - 3	SD-03	53	STANDARD DETAILS - 3
C-20	24	WETLANDS - 4			
C-21	25	OLD POLK CITY ROAD - 1			
C-22	26	OLD POLK CITY ROAD - 2			
C-23	27	OLD POLK CITY ROAD - 3			
C-24	28	OLD POLK CITY ROAD - 4			
C-25	29	OLD POLK CITY ROAD - 5			
C-26	30	OLD POLK CITY ROAD - 6			



UTILITIES PROVIDERS LIST

- | | | |
|--|---|---|
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FLORIDA GAS TRANSMISSION
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(813) 838-7171 | 3. KRIS HAYES
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LAKELAND, FL, 33801
(863) 668-9714 | 4. JOAN DOMNING
TECO PEOPLES GAS LAKELAND
8416 PALM RIVER RD
TAMPA, FL 33619
(813) 275-3783 | |

BOARD OF COUNTY COMMISSIONERS

- | | |
|----------------|----------------------|
| DISTRICT ONE | : GEORGE LINDSEY III |
| DISTRICT TWO | : RICK WILSON |
| DISTRICT THREE | : BILL BRASWELL |
| DISTRICT FOUR | : MARTHA SANTIAGO |
| DISTRICT FIVE* | : JOHN HALL |

* DISTRICT IN WHICH PROJECT IS LOCATED

- | | |
|--------------------|---------------------------|
| COUNTY MANAGER | : BILL BEASLEY |
| UTILITIES DIRECTOR | : TAMARA RICHARDSON, P.E. |

PROJECT MANAGER :

GARY BASHAM
C.I.P. PROJECT MANAGER
POLK COUNTY UTILITIES
1011 JIM KEENE BLVD
WINTER HAVEN, FLORIDA, 33880
PHONE # (863) 298- 4100
EMAIL: GaryBasham@polk-county.net

ENGINEER OF RECORD:

MATTHEW O'CONNOR, P.E.
HYDRO SOLUTIONS CONSULTING, LLC
3616 HARDEN BLVD, #110
LAKELAND, FL 33803
PHONE # (863) 559- 2471
CERTIFICATE OF AUTHORIZATION #: 27465
EMAIL: MOCONNOR@HYDROSC.COM



CALL 48 HOURS BEFORE YOU DIG

IT'S THE LAW! DIAL 811

Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

CONSTRUCTION DRAWING
 RECORD DRAWING

ENGINEER _____
print name

LICENSE # _____

ENGINEER _____
signature

DATE _____

GIBSON OAKS WATER
PRODUCTION FACILITY
OFF-SITE PIPELINE
IMPROVEMENTS

GENERAL NOTES:

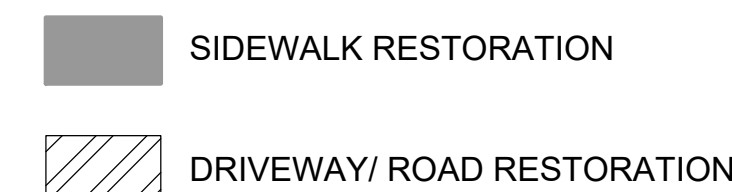
- THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN PROXIMITY OF WATER MAINS, WASTEWATER FORCE MAINS, GRAVITY MAINS AND RECLAIMED WATER MAINS. MAIN LOCATIONS SHOWN ON PLANS ARE NOT EXACT OR GUARANTEED. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING UTILITY LOCATIONS.
- THE PCU BASE-1 DISPATCH OPERATOR (863-534-7351) SHALL BE NOTIFIED BY THE CONTRACTOR FOR PIPE EMERGENCIES.
- MAKE TEMPORARY CONNECTIONS TO AN EXISTING POTABLE WATER SOURCE; FLUSH OUT NEW WATER MAIN WITH POTABLE WATER (USE "JUMPER" ASSEMBLY WITH A CROSS CONNECTION CONTROL ASSEMBLY TO MAKE TEMPORARY CONNECTIONS TO AN EXISTING WATER SOURCE).
- ALL EXISTING WATER, FORCE, GRAVITY AND RECLAIMED WATER MAINS AND OTHER FACILITIES WITHIN THE LIMITS OF THE PROJECT SHALL BE SUPPORTED AND PROTECTED AGAINST DAMAGE DURING CONSTRUCTION.
- ALL EXISTING AND NEW PCU VALVES, VALVE BOXES, ARV'S, FIRE HYDRANTS AND MANHOLES SHALL BE PROTECTED AND ADJUSTED TO FINISHED GRADE AS SHOWN ON THE DRAWINGS. ALL EXISTING ABOVE GROUND VALVES SHALL BE RELOCATED, AS REQUIRED.
- PCU SHALL BE NOTIFIED AT LEAST FIVE (5) WORKING DAYS PRIOR TO ANY CONSTRUCTION ACTIVITY WITHIN PROXIMITY OF ITS FACILITIES.
- THE CONTRACTOR SHALL IMMEDIATELY CONTACT PCU AND REPAIR ALL DAMAGES TO PCU'S MAINS AND FACILITIES AT THE CONTRACTOR'S EXPENSE. IF THE REPAIR IS NOT MADE IN A TIMELY MANNER, AS DETERMINED BY PCU, PCU MAY PERFORM REQUIRED REPAIRS AND CLEANUP. THE CONTRACTOR WILL BE CHARGED FOR ALL EXPENSES ASSOCIATED WITH THE REPAIR.
- ONLY PCU STAFF SHALL OPERATE WATER, WASTEWATER, AND RECLAIMED WATER VALVES. THE CONTRACTOR SHALL COORDINATE VALVE OPERATION WITH THE PCU INSPECTOR.
- ALL NEW VALVES BEING INSTALLED SHALL REMAIN CLOSED DURING CONSTRUCTION. KEEP VALVES ON ALL WET TAPS CLOSED UNTIL CLEARED BY FDEP/FDOH.
- THE UTILITY IMPROVEMENTS AND ADJUSTMENTS SHOWN ON THESE PLANS ARE INTENDED TO MAINTAIN THE INTEGRITY OF THE PCU WATER, WASTEWATER AND RECLAIMED WATER SYSTEMS. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE UTILITIES STANDARDS AND SPECIFICATIONS MANUAL (USSM). THE PLANS DO NOT INCLUDE WORK PERFORMED ON OR FOR UTILITY SYSTEMS OWNED BY OTHERS, UNLESS STATED OTHERWISE ON THE PLANS.
- DO NOT OPEN ANY VALVES THAT DIRECTLY CONNECTS ANY PROPOSED WATER MAINS TO ANY EXISTING MAINS UNLESS CLEARED BY BOTH FDEP/FDOH & PCU.
- DURABLE COLORED PLASTIC CURB MARKERS, AS SPECIFIED WITHIN THE APPROPRIATE APPROVED MATERIALS CHECKLIST AND THE APPROPRIATE SECTIONS OF THE MANUAL, SHALL BE SECURELY ATTACHED 6 INCHES FROM THE TOP OF CURB, OR 6 INCHES FROM THE EDGE OF PAVEMENT WHERE CURBING IS NOT PRESENT, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS SO THAT ALL SERVICES AND VALVES ARE ACCURATELY LOCATED
- IN ACCORDANCE WITH THE USSM, SOD SHALL BE PLACED ON ALL SLOPES STEEPER THAN 4:1 AND THE TWO (2) FEET DIRECTLY ADJACENT TO THE EDGE OF PAVEMENT OR BACK OF CURB. SOD SHALL BE PLACED ANYWHERE EXISTING SOD IS REMOVED OR DISTURBED BY THE WORK. GRASS ALL OTHER DISTURBED AREAS UNLESS OTHERWISE DIRECTED.
- ALL WORK SHALL BE OPEN TO AND SUBJECT TO INSPECTION BY AUTHORIZED PERSONNEL OF LOCAL, STATE, AND FEDERAL REGULATORY AGENCIES, UTILITY COMPANIES, AND THE OWNER'S REPRESENTATIVE.
- ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS CONTAINED HEREIN AND/OR OTHERWISE REQUIRED BY APPLICABLE FEDERAL, STATE AND LOCAL CODES, ORDINANCES, AND REGULATIONS. IN THE EVENT OF A CONFLICT BETWEEN THE REQUIREMENTS, THE MOST STRINGENT SHALL APPLY AS DETERMINED BY THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL EXERCISE EVERY PRECAUTION AND MEANS TO PREVENT AND CONTROL DUST ARISING DURING ALL OPERATIONS FROM BECOMING A NUISANCE TO ADJUTING PROPERTY OWNERS.

- THE USE OF ADJACENT PRIVATE PROPERTY OR PUBLIC RIGHT-OF-WAY TO STORE MATERIALS IS PROHIBITED. FURTHER, NO DEBRIS OR CONSTRUCTION MATERIALS ARE TO BE DISCARDED ON RIGHT-OF-WAY, ADJACENT PROPERTIES, WETLAND AREAS, LAKES, ETC.
- ALL TRANSITIONS FROM HDPE PIPE INSTALLED BY HDD TO OTHER PIPE MATERIALS SHALL BE MADE WITH A BUTT-FUSED FLANGE ADAPTER AND DUCTILE IRON SPOOL PIECE. REFER TO THE DETAIL ON DRAWING SD-02.
- THE INTENT OF THE DESIGN SHOWN IS TO CONSTRUCT THE HDPE PIPING USING HORIZONTAL DIRECTIONAL DRILLING AT THE ELEVATION (PIPE COVER) SHOWN, TO AVOID THE USE OF AIR RELEASE VALVES. THE CONTRACTOR MAY INITIATE THE DIRECTIONAL DRILL OUTSIDE OF THE PAY LIMITS SHOWN ON THE PLAN SO THE PIPING WITHIN THE PAY LIMITS IS AT THE ELEVATION SHOWN, THEN REMOVE THE EXCESS HDPE PIPING. ALTERNATELY, THE CONTRACTOR MAY INSTALL THE PIPING USING DIRECTIONAL DRILLING AND EXCAVATE THE CURVED PORTION OF THE PIPING AND LOWER IT TO THE REQUIRED ELEVATION, OR A COMBINATION OF EITHER METHOD. AS DESCRIBED IN THE MEASUREMENT AND PAYMENT SECTION, ANY PIPING INSTALLED BY DIRECTIONAL DRILLING OR ADDITIONAL RESTORATION OUTSIDE THE PAY LIMITS SHOWN ON THE PLANS SHALL BE INCLUDED IN THE COST OF THE DIRECTIONAL DRILL, AND NO SEPARATE PAYMENT WILL BE MADE.

ABBREVIATIONS

PIPING		PIPE		PIPE		PIPE	
CIP	CAST IRON PIPE	CB	CATCH BASIN	EL	ELEVATION	RAW	RAW WATER
DIP	DUCTILE IRON PIPE	CLF	CHAIN LINK FENCE	GAL	GALLON	RED	REDUCER
GSP	GALVANIZED STEEL PIPE	CM	CONCRETE MASONRY	GALV	GALVANIZED	REINF	REINFORCING
PVC	POLYVINYL CHLORIDE	CP	SURVEY CONTROL POINT OR CONTROL PANEL	GPM	GALLONS PER MINUTE	REQ'D	REQUIRED
	VALVES, FITTINGS, ETC.	C/S	CONCRETE SLAB	GR	GRADE	RJ	RESTRAINED JOINT
ARV	AIR RELIEF VALVE	CL	CENTER LINE	GRV DRAIN	GRAVITY DRAIN	R/W, ROW	RIGHT OF WAY
BV	BALL VALVE	CO	CLEAN OUT	HP	HIGH POINT	SECT	SECTION
BF	BLIND FLANGE	CLR	CLEAR	HWL	HIGH WATER LEVEL	SCH	SCHEDULE
BFP	BACK FLOW PREVENTER	COL	COLUMN	HORIZ	HORIZONTAL	SHT	SHEET
BFP	BUTTERFLY VALVE	CONC	CONCRETE	INJ	INJECTION	SPEC	SPECIFICATION
CMP	CORRUGATED METAL PIPE	CONT	CONTINUOUS	ID	INSIDE DIAMETER	SQ	SQUARE
CU YD	CUBIC YARD	DET	DETAIL	IRC	IRON ROD & CAP	STL	STEEL
CV	CHECK VALVE	DIAG	DIAGONAL	ISO	ISOLATION	STRUC	STRUCTURAL
CUP	COUPLING	DIAM	DIAMETER	INV	INVERT	ST STL	STAINLESS STEEL
EXP JT	EQUIPMENT DRAIN	DISCH	DISCHARGE	JB	JUNCTION BOX	TEMP	TEMPORARY
EXP JT	EXPANSION JOINT	DWL	DOWEL	LG	LONG	TOC	TOP OF CONCRETE
FH	FIRE HYDRANT	LW	LOW POINT	LP	LOW POINT	TOS	TOP OF SLAB
FT	FEET	LWL	LOW WATER LEVEL	MH	MANHOLE	TYP	TYPICAL
FTG	FITTING	MFRS	MANUFACTURERS	MH	MANHOLE	TOP	TOP OF PIPE
FLG/FL	FLANGE	MAX	MAXIMUM	MFRS	MANUFACTURERS	UGE	UNDERGROUND ELECTRIC CABLE
FD	FLOOR DRAIN	MES	MITERED END SECTION	MAX	MAXIMUM	VERT	VERTICAL
FRC	FLEXIBLE RUBBER COUPLING	WWF	WELDED WIRE FABRIC	EA	EACH		
GV	GATE VALVE			EE	EACH END		
HB	HOSE BIBB						

LEGEND



SURVEY LEGEND

BURIED EXISTING WATER MAIN	— EXST WM — EXST WM — EXST WM —
OVERHEAD POWER	— OH — OH — OH — OH —
RIGHT OF WAY LINE	— — — — —
BURIED STORM WATER LINE	— STM — STM — STM — STM — STM — STM —
FENCE AS NOTED	— X — X — X — X — X — X — X —
OVERHEAD UTILITY LINE	— OH — OH — OH — OH — OH — OH —
BURIED FIBER OPTIC CABLE	— FO — FO — FO — FO — FO — FO —
BURIED ELECTRICAL CABLE	— UGE — UGE — UGE — UGE — UGE — UGE —
BURIED TV CABLE	— CATV — CATV — CATV — CATV — CATV —
BURIED WATER MAIN	— WTR — WTR — WTR — WTR — WTR — WTR —
BURIED GAS LINE	— GAS — GAS — GAS — GAS — GAS — GAS —

SURVEY ABBREVIATIONS

△	SURVEY CONTROL POINT AS NOTED	LB	LICENSED BUSINESS
●	FOUND MONUMENT AS NOTED	M.B.	MAP BOOK
—(D)—	DEED DIMENSION/PER DEED	MES	MITERED END SECTION
—(P)—	PLAT DIMENSION/PER PLAT	No.	NUMBER
B/F/P	BACK FLOW PREVENTOR	O.R.	OFFICIAL RECORDS
B/W/F	BARBED WIRE FENCE	P.B.	PLAT BOOK
B.O.S.	BEGINNING OF SURVEY	P.I.	POINT OF INTERSECTION
C/L	CENTERLINE	P.S.M.	PROFESSIONAL SURVEYOR AND MAPPER
C/L/F	CHAIN LINK FENCE	RCP	REINFORCED CONCRETE PIPE
CONC	CONCRETE	R/W	RIGHT OF WAY
CMP	CORRUGATED METAL PIPE	STA	STATION
EOP	EDGE OF PAVEMENT	TOE	TOE OF SLOPE
E.O.S.	END OF SURVEY	TOP	TOP OF BANK
F.D.O.T.	FLORIDA DEPARTMENT OF TRANSPORTATION	W/B/F	WOOD BOARD FENCE
HDPE	HIGH DENSITY POLYETHYLENE PIPE	W/P/B	WIRE PULL BOX
H/W/F	HOG WIRE FENCE		
ID	IDENTIFICATION		

SURVEY SYMBOLS

←	ANCHOR	○	SHRUBBERY
B/F/P	BACK FLOW PREVENTOR	□	SIGN
H	DELINEATOR POST AS NOTED	×171.0	SPOT ELEVATION
□	ELECTRICAL OUTLET	*	SPRINKLER HEAD
⊗	FIRE HYDRANT	☐ TPO	TELEPHONE SERVICE PULL BOX/VAULT
○	FLOOD LIGHT	8"	TREE WITH SIZE AND TYPE IF KNOWN
☆	LIGHT POLE	○	UTILITY POLE
☐	MAILBOX	☐	UTILITY SERVICE BOX/CONTROLLER
○	OAK TREE WITH SIZE	TH	UTILITY TEST HOLE LOCATION/NUMBER
16" PALM	PALM TREE WITH SIZE	↓	WATER FUACET
○	PINE TREE WITH SIZE	⊗	WATER METER
○	POST AS NOTED	○	WATER VALVE
16"	RED CEDAR TREE WITH SIZE	MLB-2	WETLANDS FLAG WITH DESIGNATION

REV	DATE	BY	DESCRIPTION

DESIGNED MO
DRAWN JM
CHECKED DW
DATE JUNE 2020



3616 HARDEN BLVD., #110, LAKELAND, FL 33803
PH. (863) 559-2471

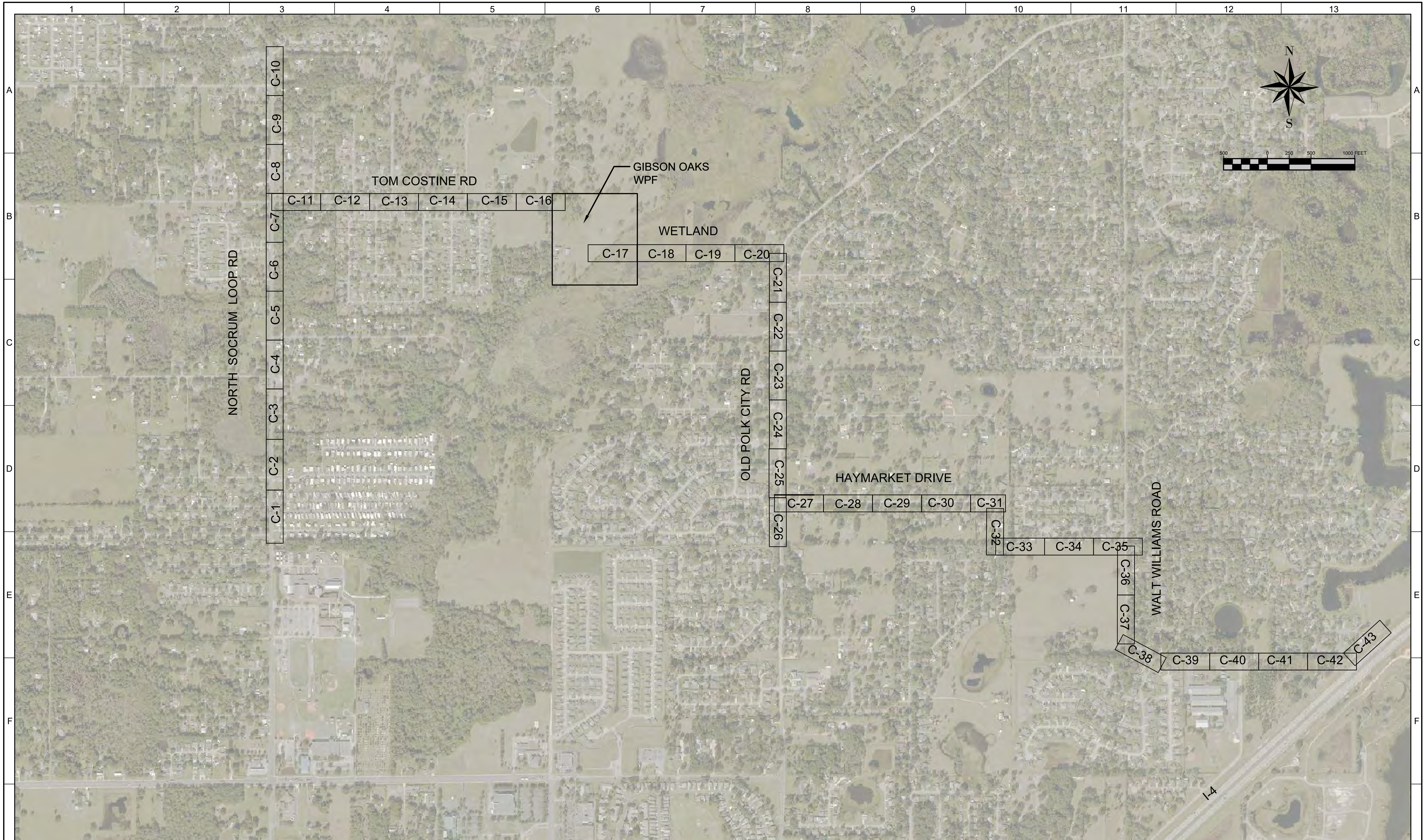
POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS

GENERAL
ABBREVIATIONS / GENERAL NOTES

VERIFY SCALES
BAR IS ONE INCH
ON ORIGINAL
DRAWING
0 1"


IF NOT ONE INCH ON THIS
SHEET, ADJUST SCALES
ACCORDINGLY

JOB NO.
PCU PN 2014-04-30-0
ORACLE NO. 6857014
DRAWING NO.
G-02
SHEET NO.
SHEET G-02 OF G-04



REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED M.O.	
DRAWN J.M.	
CHECKED D.W.	
DATE JUNE 2020	

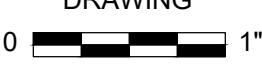


HSC

3616 HARDEN BLVD., #110, LAKELAND, FL 33803
PH. (863) 559-2471

POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
 GENERAL
KEY SHEET

VERIFY SCALES
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 ON ORIGINAL
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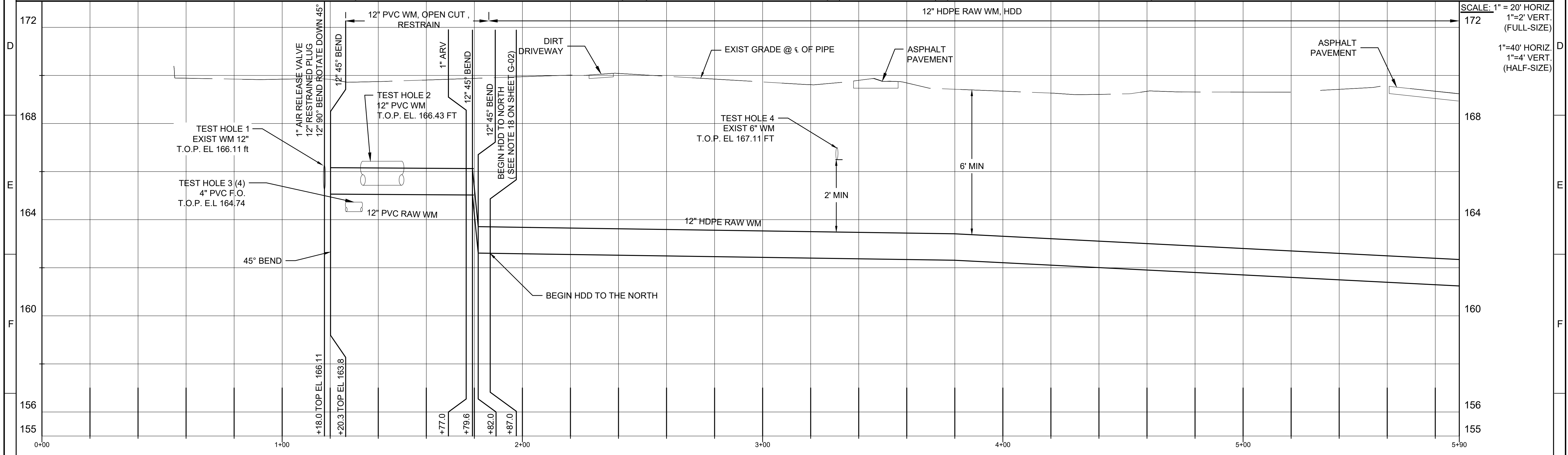
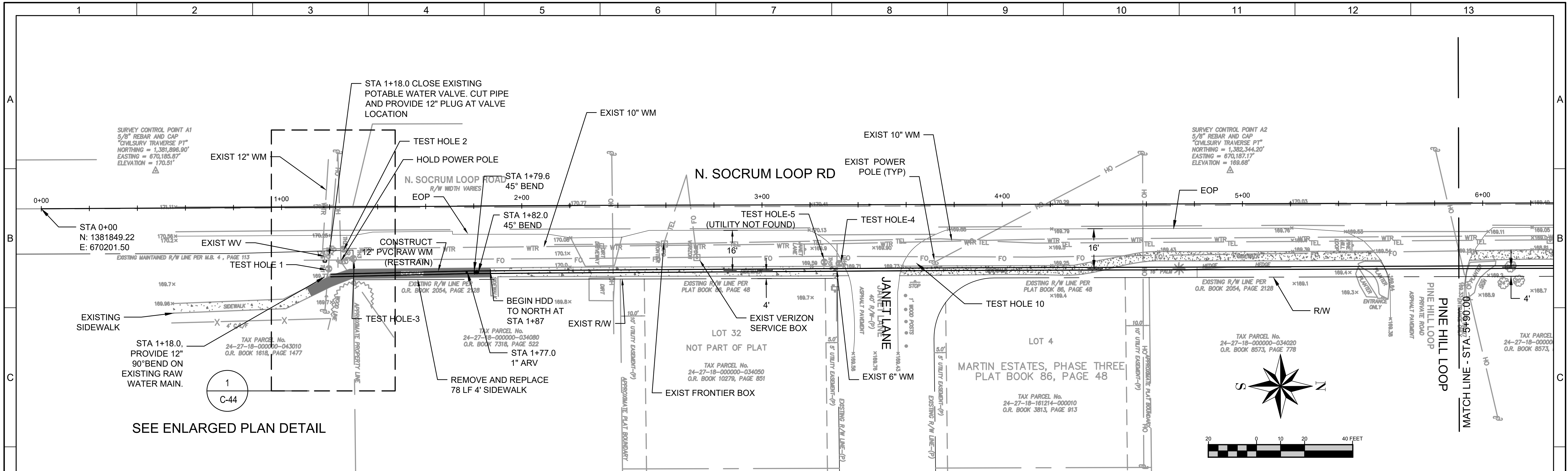


IF NOT ONE INCH ON THIS
 SHEET, ADJUST SCALES
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 PCU PN 2014-04-30-0
 ORACLE NO. 6857014

DRAWING NO.
G-03

SHEET NO.
 G-03 OF G-04



REV	DATE	BY	DESCRIPTION
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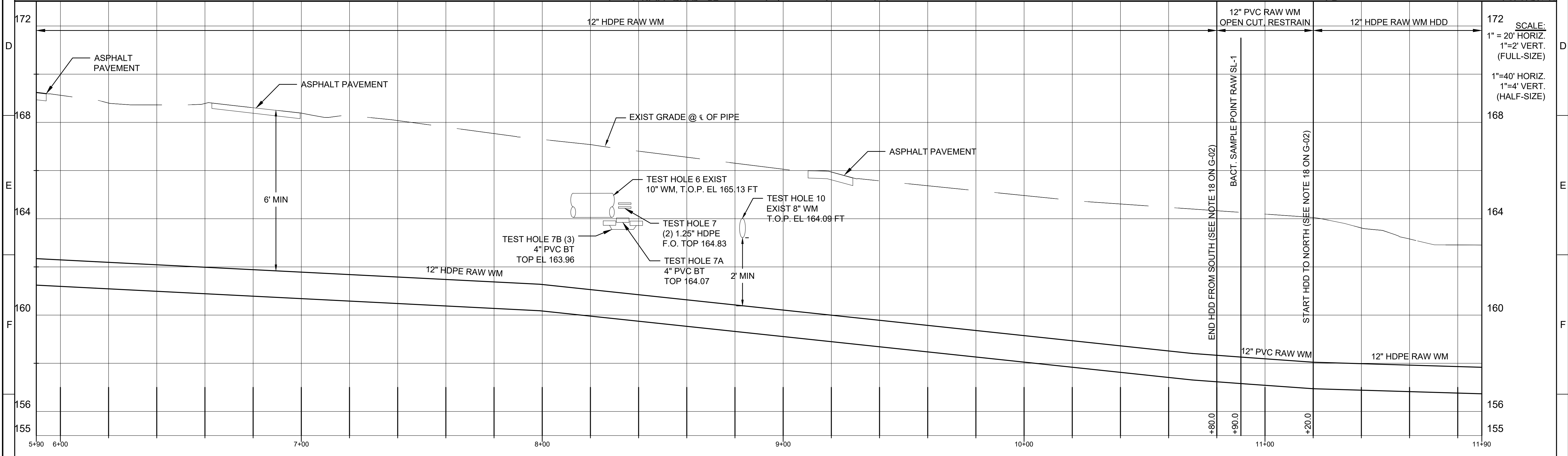
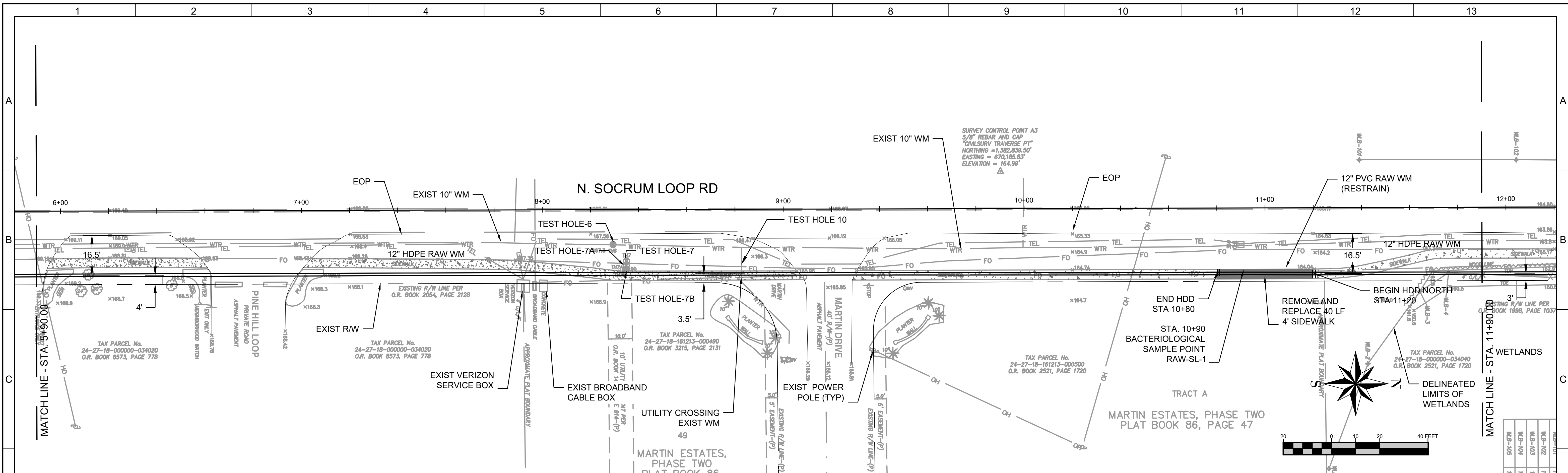
DESIGNED	M.O.
DRAWN	C.M.
CHECKED	D.W.
DATE	JUNE 2020



POLK COUNTY UTILITIES	
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS	
PLAN AND PROFILE	
NORTH SOCRUM LOOP RD - 1	

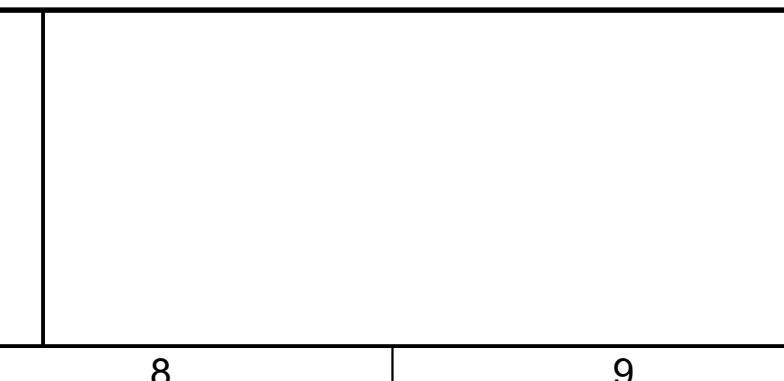
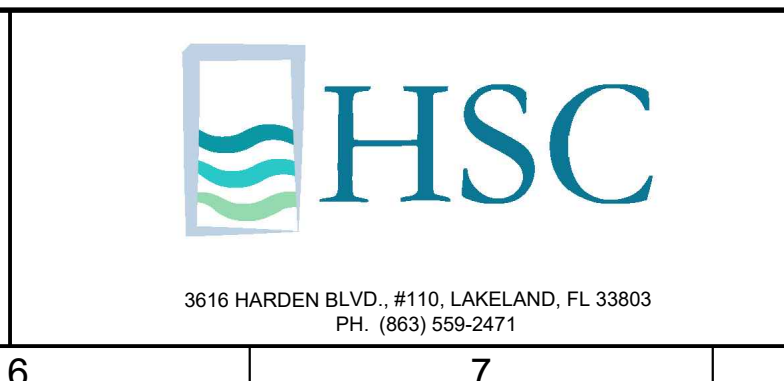
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JOB NO.	PCU PN 2014-04-30-0
ORACLE NO.	6857014
DRAWING NO.	C-01
SHEET NO.	C-01 OF C-46



REV	DATE	BY	DESCRIPTION
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2			

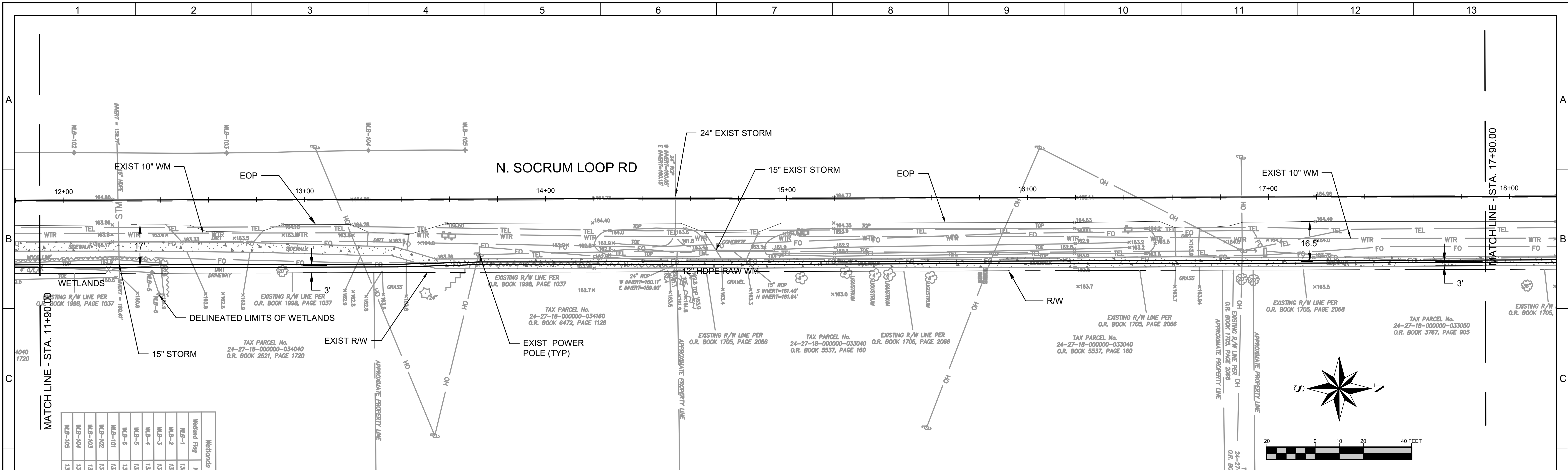
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DATE JUNE 2020	



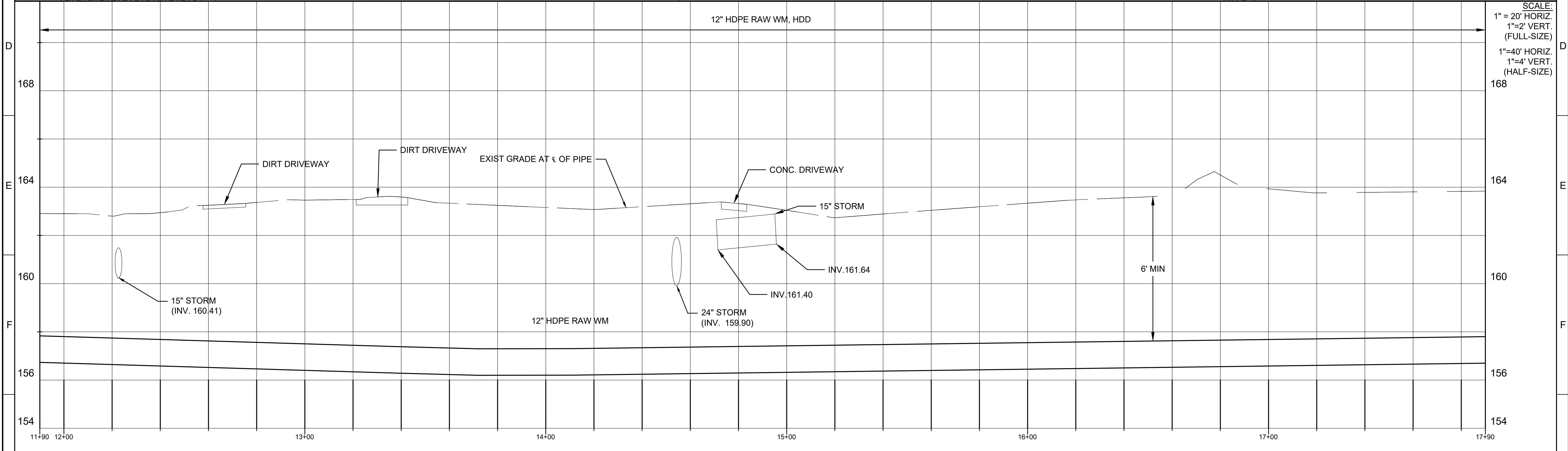
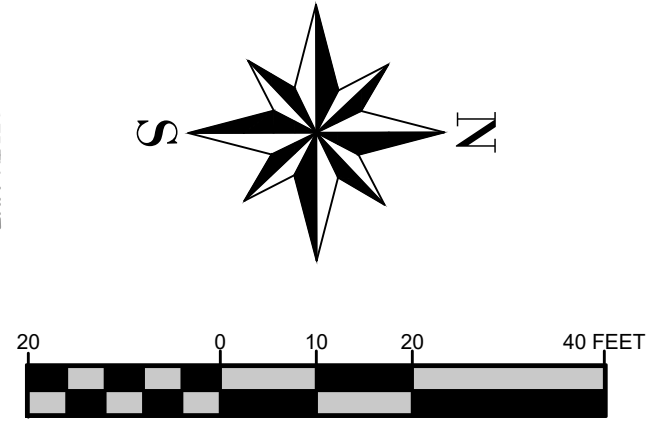
POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
 PLAN AND PROFILE
NORTH SOCRUM LOOP RD - 2

VERIFY SCALES
 BAR IS ONE INCH
 ON ORIGINAL
 DRAWING
 0 1"

JOB NO.
 PCU PN 2014-04-30-0
 ORACLE NO. 6857014
 DRAWING NO.
C-02
 SHEET NO.
 C-02 OF C-46



Wetland Flag	Wetlands
WB-1	13B
WB-2	13B
WB-3	13B
WB-4	13B
WB-5	13B
WB-6	13B
WB-7	13B
WB-8	13B
WB-9	13B
WB-10	13B
WB-11	13B
WB-12	13B
WB-13	13B
WB-14	13B
WB-15	13B



REV	DATE	BY	DESCRIPTION
1			
2			
3			

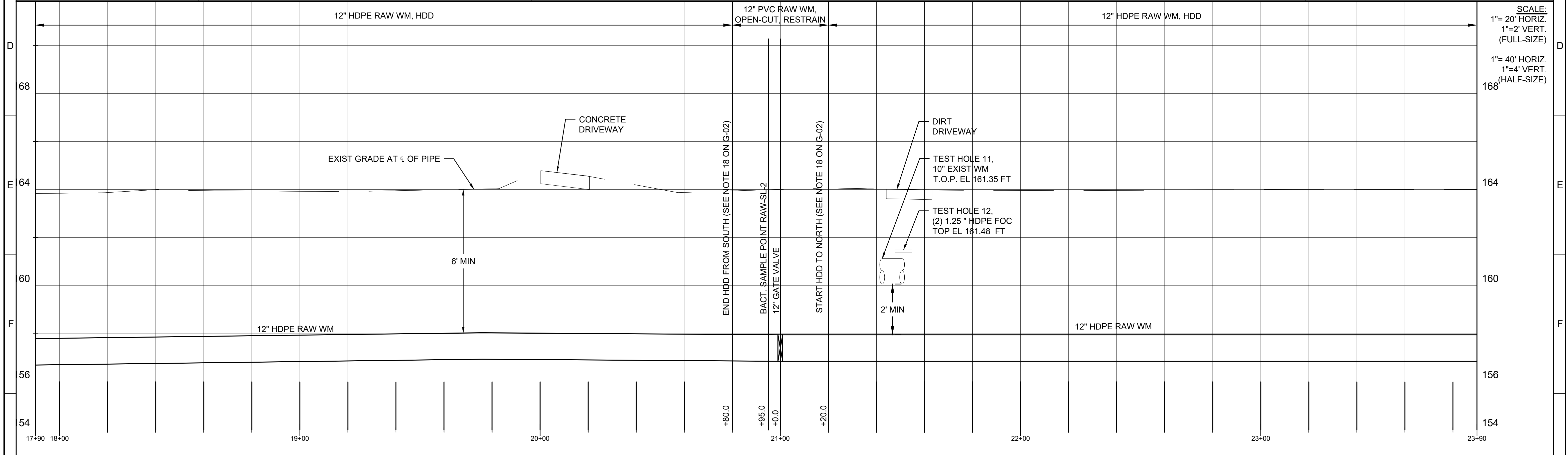
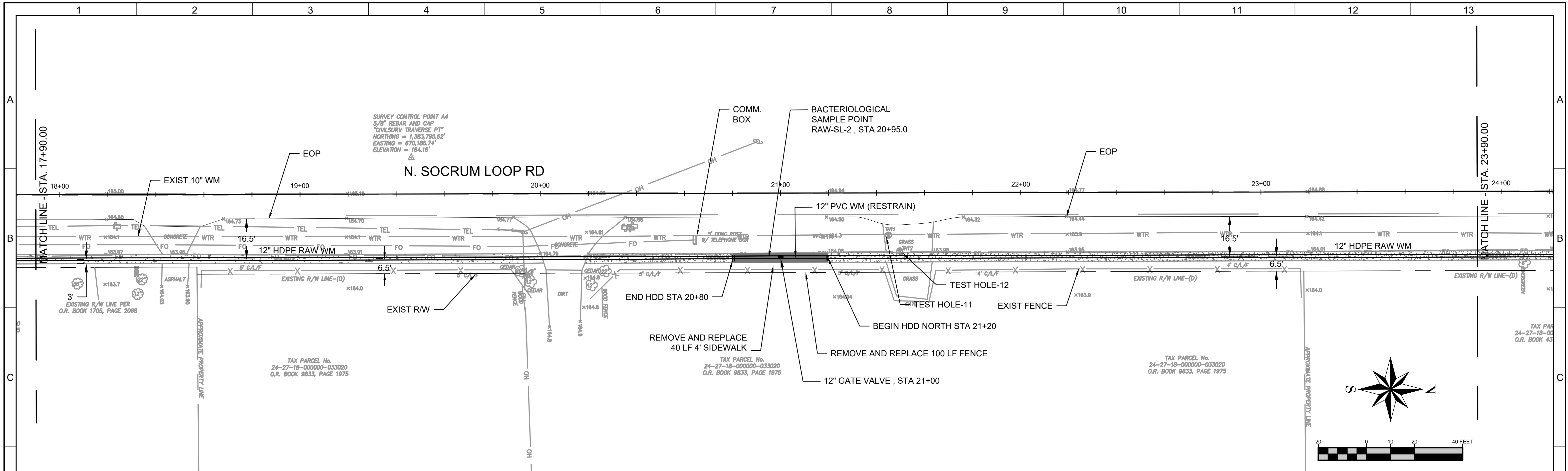
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DATE JUNE 2020	



POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
PLAN AND PROFILE
NORTH SOCRUM LOOP RD - 3

VERIFY SCALES
BAR IS ONE INCH
ON ORIGINAL
DRAWING
0 1" 40 FEET
IF NOT ONE INCH ON THIS
SHEET, ADJUST SCALES
ACCORDINGLY

JOB NO.
PCU PN 2014-04-30-0
ORACLE NO. 6857014
DRAWING NO.
C-03
SHEET NO.
C-03 OF C-46



REV	DATE	BY	DESCRIPTION
1			
2			

DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



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POLK COUNTY UTILITIES

GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS

PLAN AND PROFILE

NORTH SOCRUM LOOP RD - 4

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING

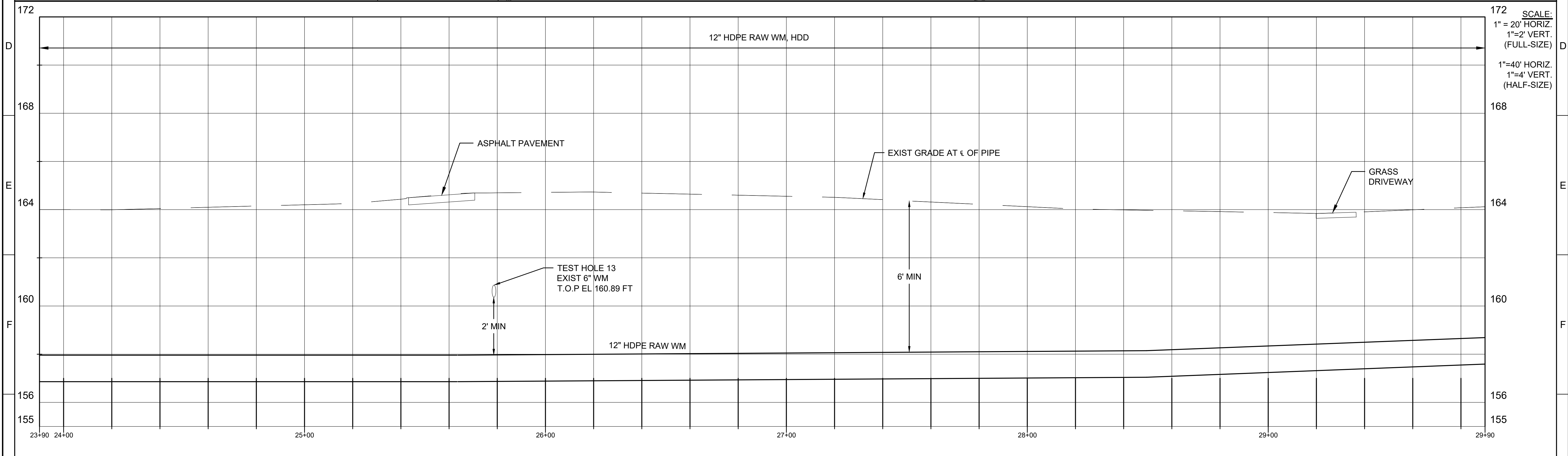
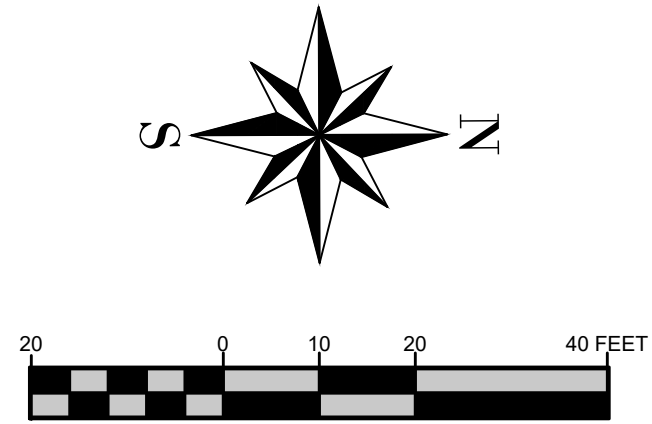
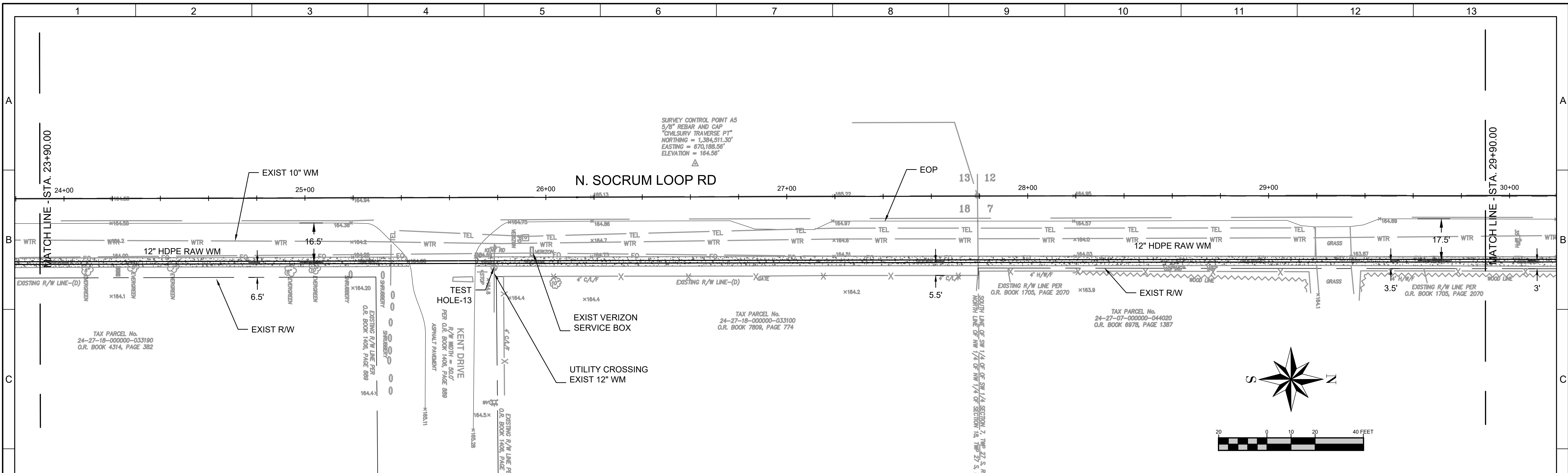
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
PCU PN 2014-04-30-0
ORACLE NO. 6857014

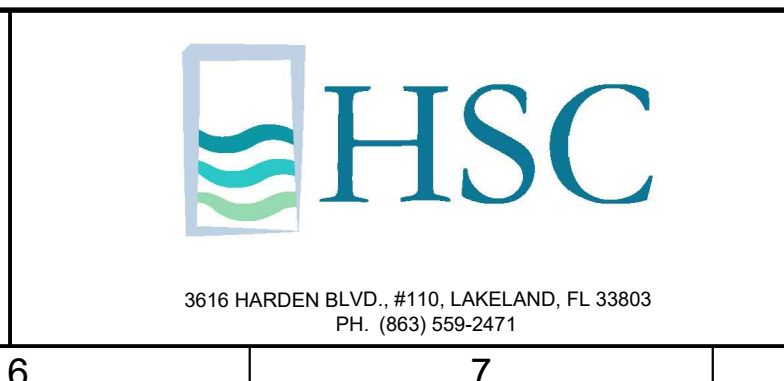
DRAWING NO.
C-04

SHEET NO.
C-04 OF C-46



REV	DATE	BY	DESCRIPTION
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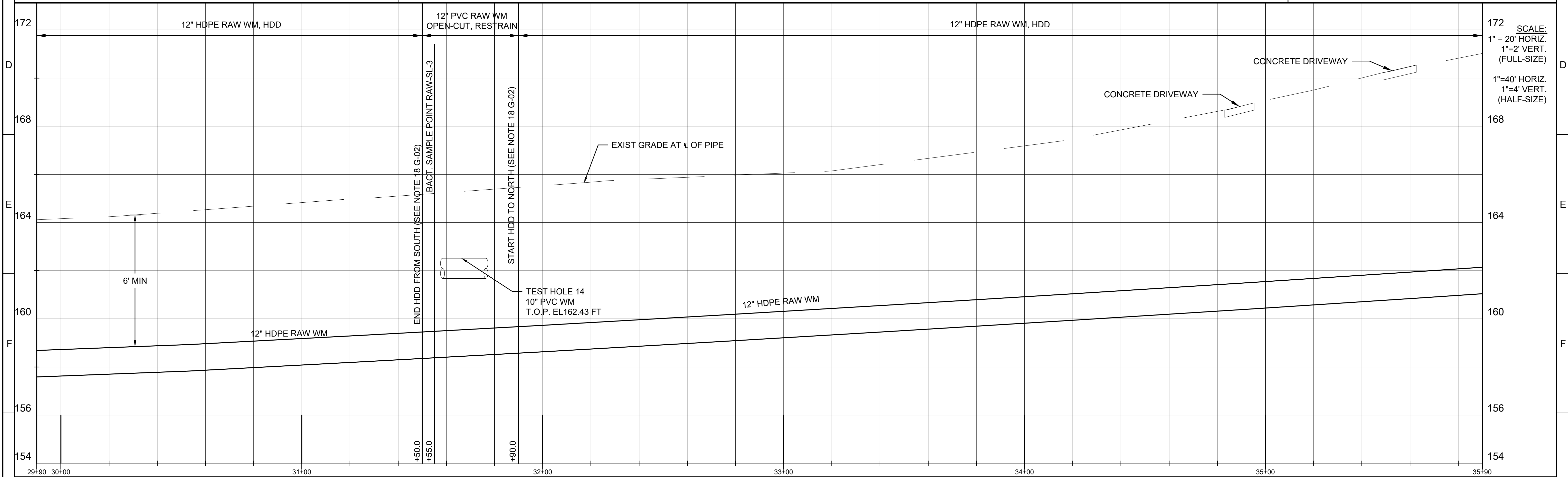
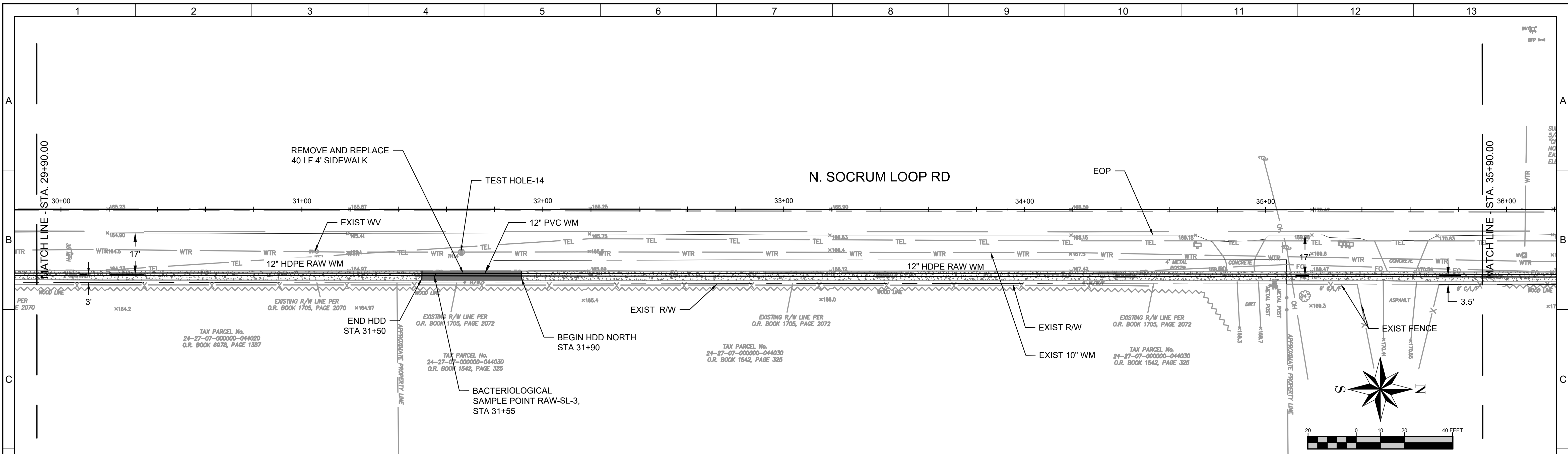
DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
PLAN AND PROFILE
NORTH SOCRUM LOOP RD - 5

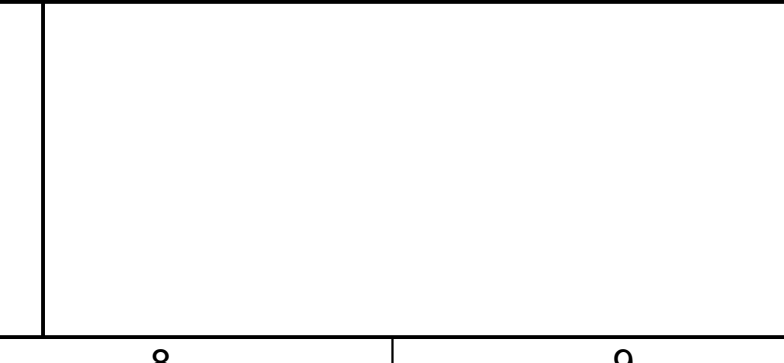
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
PCU PN 2014-04-30-0
ORACLE NO. 6857014
DRAWING NO.
C-05
SHEET NO.
C-05 OF C-46



REV	DATE	BY	DESCRIPTION
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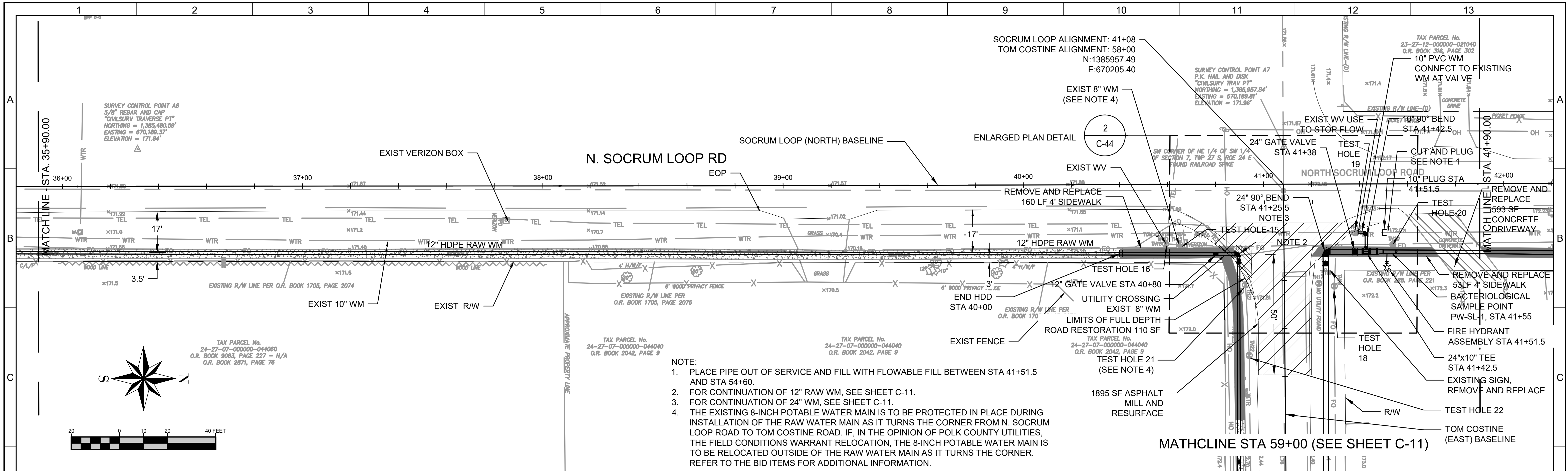
DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



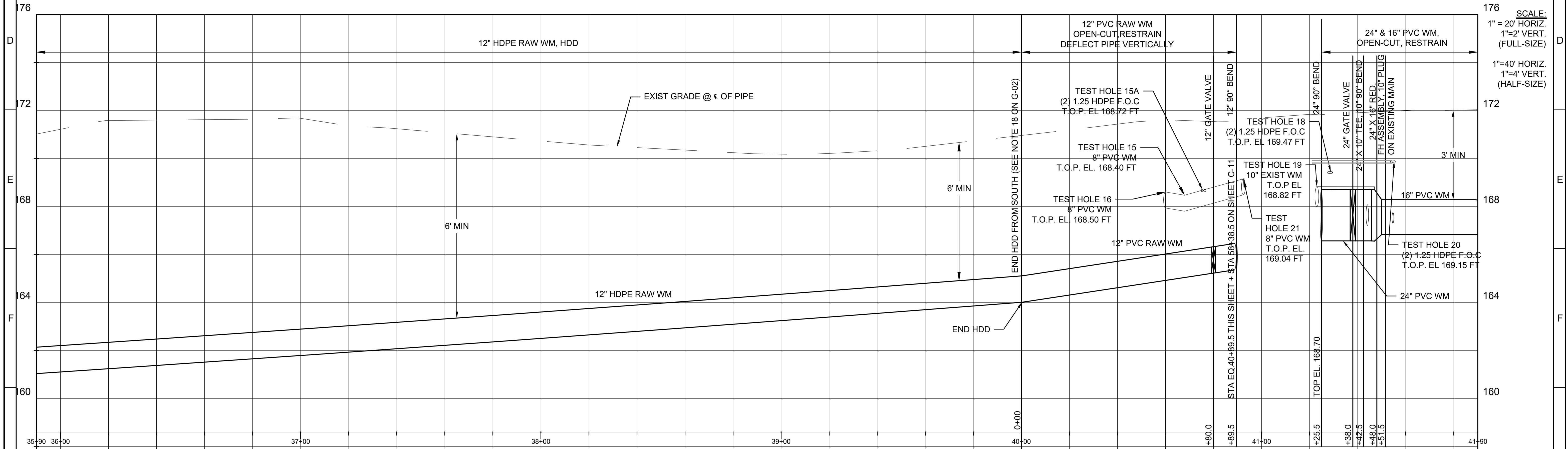
POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
 PLAN AND PROFILE
NORTH SOCRUM LOOP RD - 6

VERIFY SCALES
 BAR IS ONE INCH
 ON ORIGINAL
 DRAWING

JOB NO.
 PCU PN 2014-04-30-0
 ORACLE NO. 6857014
 DRAWING NO.
C-06
 SHEET NO.
 C-06 OF C-46



- NOTE:
1. PLACE PIPE OUT OF SERVICE AND FILL WITH FLOWABLE FILL BETWEEN STA 41+51.5 AND STA 54+60.
 2. FOR CONTINUATION OF 12" RAW WM, SEE SHEET C-11.
 3. FOR CONTINUATION OF 24" WM, SEE SHEET C-11.
 4. THE EXISTING 8-INCH POTABLE WATER MAIN IS TO BE PROTECTED IN PLACE DURING INSTALLATION OF THE RAW WATER MAIN AS IT TURNS THE CORNER FROM N. SOCRUM LOOP ROAD TO TOM COSTINE ROAD. IF, IN THE OPINION OF POLK COUNTY UTILITIES, THE FIELD CONDITIONS WARRANT RELOCATION, THE 8-INCH POTABLE WATER MAIN IS TO BE RELOCATED OUTSIDE OF THE RAW WATER MAIN AS IT TURNS THE CORNER. REFER TO THE BID ITEMS FOR ADDITIONAL INFORMATION.



REV	DATE	BY	DESCRIPTION
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DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



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PH. (863) 559-2471

POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS

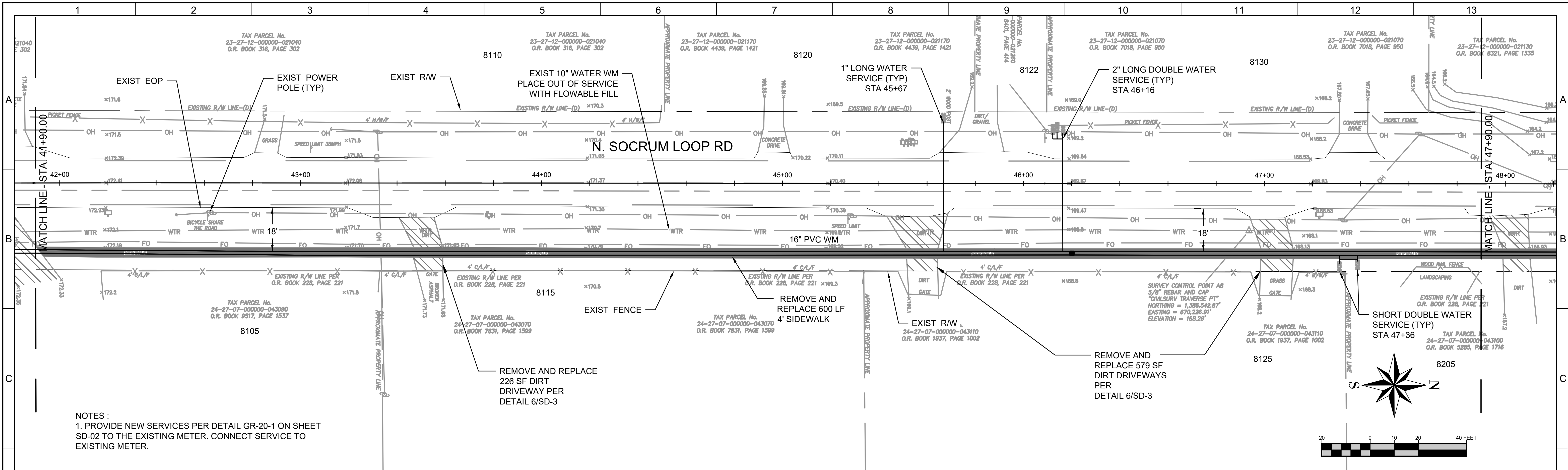
PLAN AND PROFILE
NORTH SOCRUM LOOP RD - 7

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

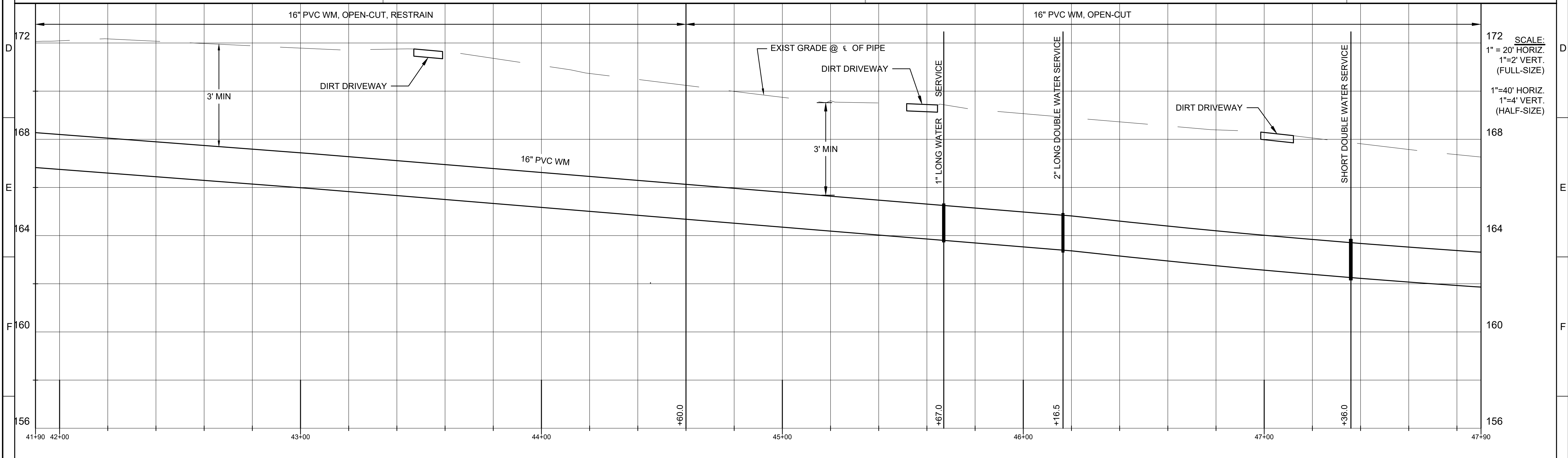
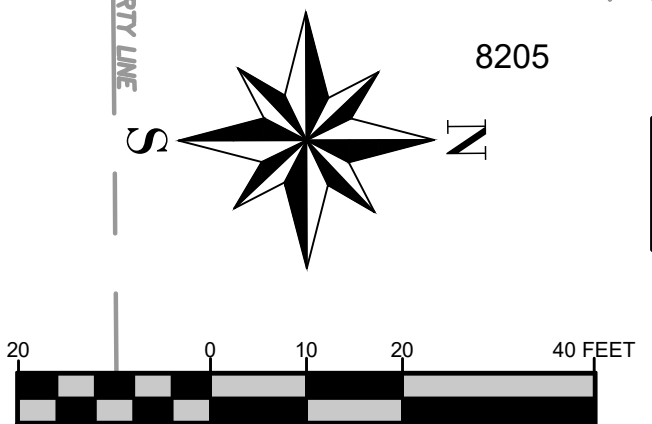
JOB NO.
PCU PN 2014-04-30-0
ORACLE NO. 6857014

DRAWING NO.
C-07

SHEET NO.
C-07 OF C-46



NOTES:
 1. PROVIDE NEW SERVICES PER DETAIL GR-20-1 ON SHEET SD-02 TO THE EXISTING METER. CONNECT SERVICE TO EXISTING METER.



REV	DATE	BY	DESCRIPTION
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DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



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POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
 PLAN AND PROFILE
NORTH SOCRUM LOOP RD - 8

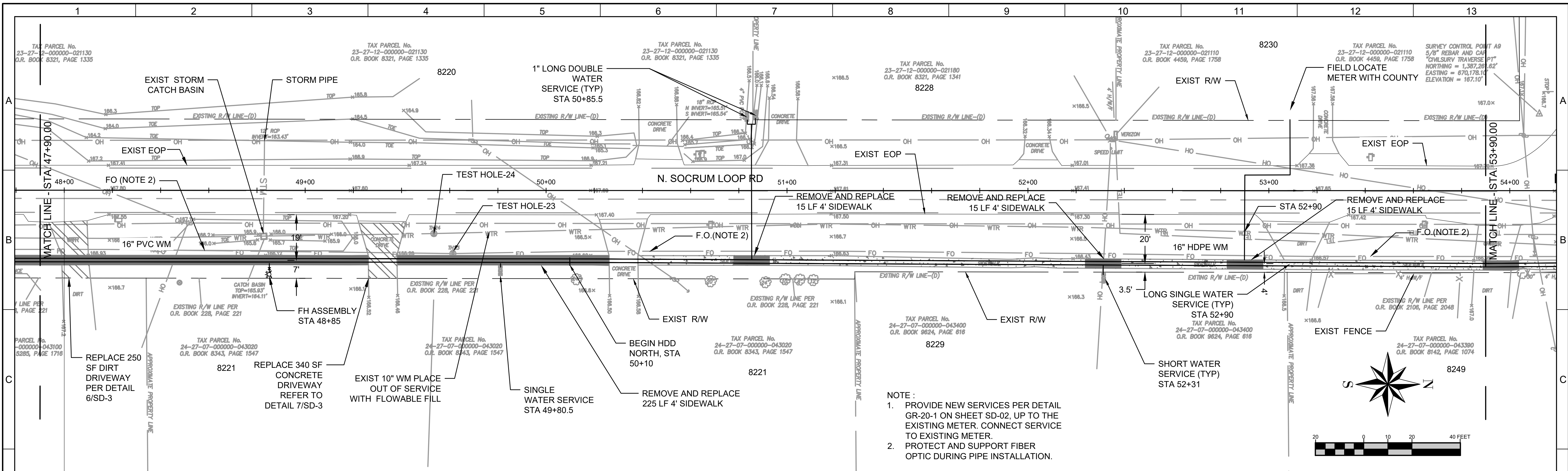
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 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

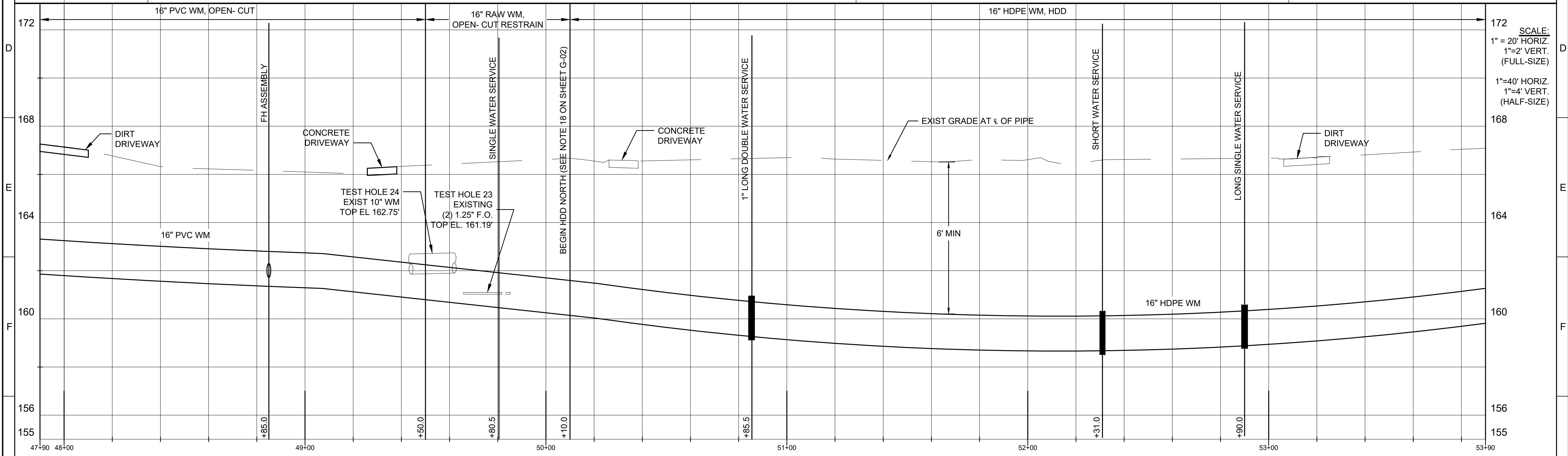
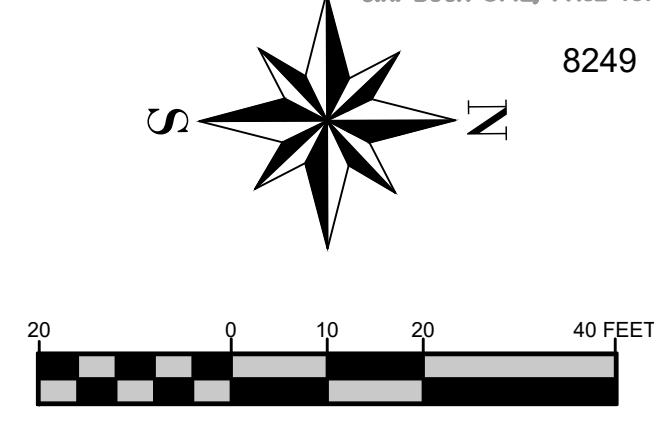
JOB NO.
 PCU PN 2014-04-30-0
 ORACLE NO. 6857014

DRAWING NO.
C-08

SHEET NO.
 C-08 OF C-46



NOTE:
 1. PROVIDE NEW SERVICES PER DETAIL GR-20-1 ON SHEET SD-02, UP TO THE EXISTING METER. CONNECT SERVICE TO EXISTING METER.
 2. PROTECT AND SUPPORT FIBER OPTIC DURING PIPE INSTALLATION.



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POLK COUNTY UTILITIES
 GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
 PLAN AND PROFILE
 NORTH SOCRUM LOOP RD - 9

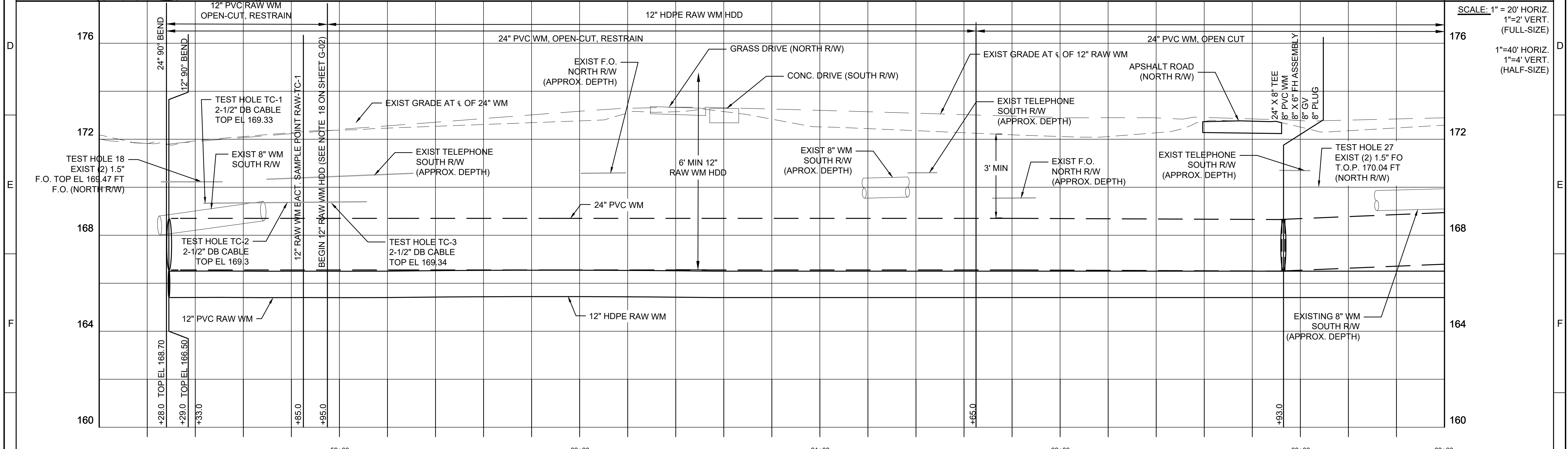
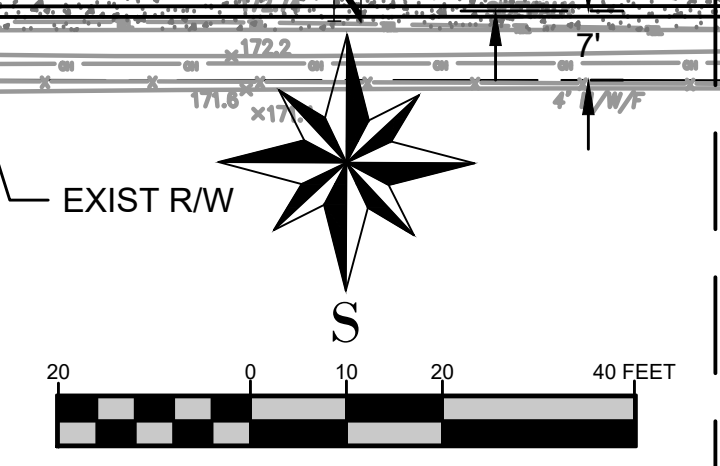
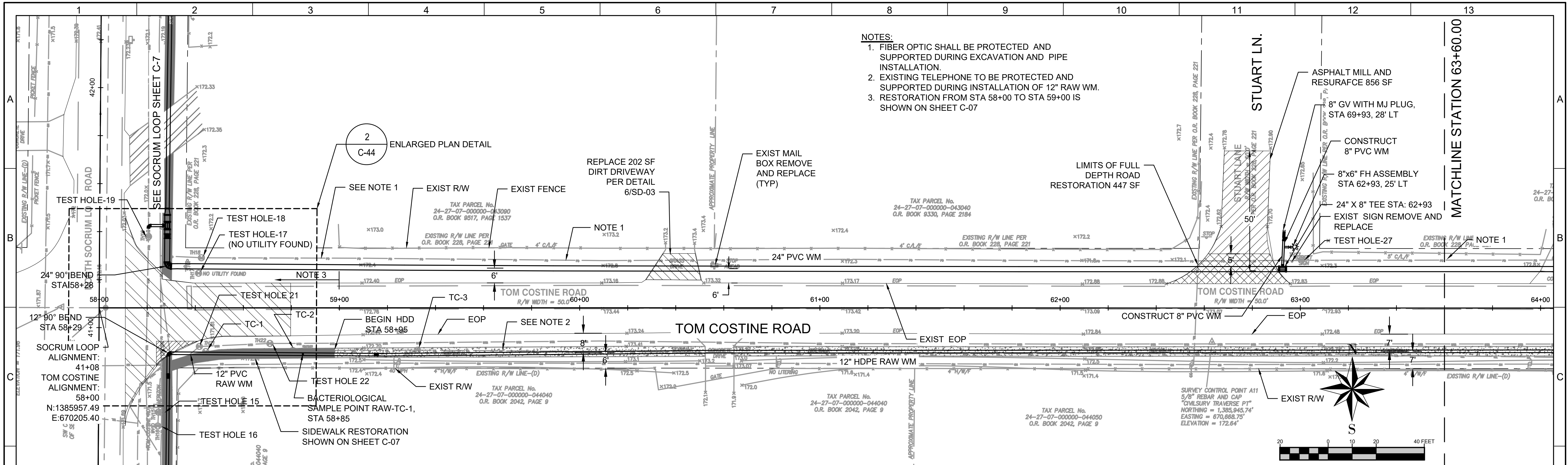
VERIFY SCALES
 BAR IS ONE INCH
 ON ORIGINAL
 DRAWING
 0 1" SCALE BAR
 IF NOT ONE INCH ON THIS
 SHEET, ADJUST SCALES
 ACCORDINGLY

JOB NO.
 PCU PN 2014-04-30-0
 ORACLE NO. 6857014

DRAWING NO.
 C-09

SHEET NO.
 C-09 OF C-46

- NOTES:**
1. FIBER OPTIC SHALL BE PROTECTED AND SUPPORTED DURING EXCAVATION AND PIPE INSTALLATION.
 2. EXISTING TELEPHONE TO BE PROTECTED AND SUPPORTED DURING INSTALLATION OF 12" RAW WM.
 3. RESTORATION FROM STA 58+00 TO STA 59+00 IS SHOWN ON SHEET C-07



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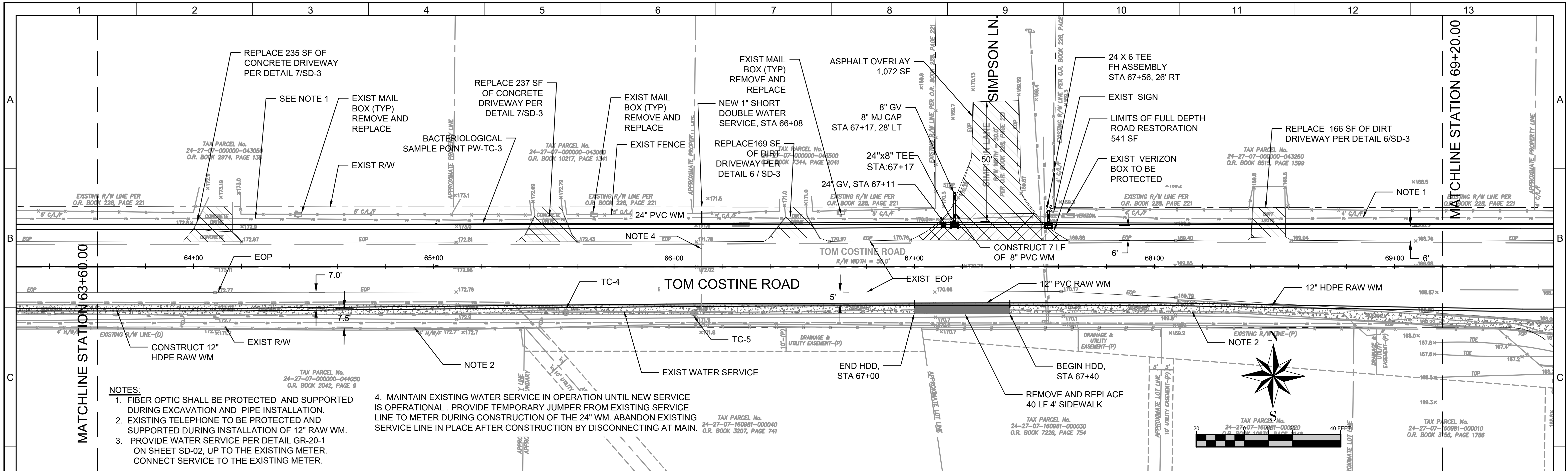
DESIGNED M.O.	59+00
DRAWN C.M.	60+00
CHECKED D.W.	61+00
DATE JUNE 2020	62+00



POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
PLAN AND PROFILE
TOM COSTINE ROAD-1

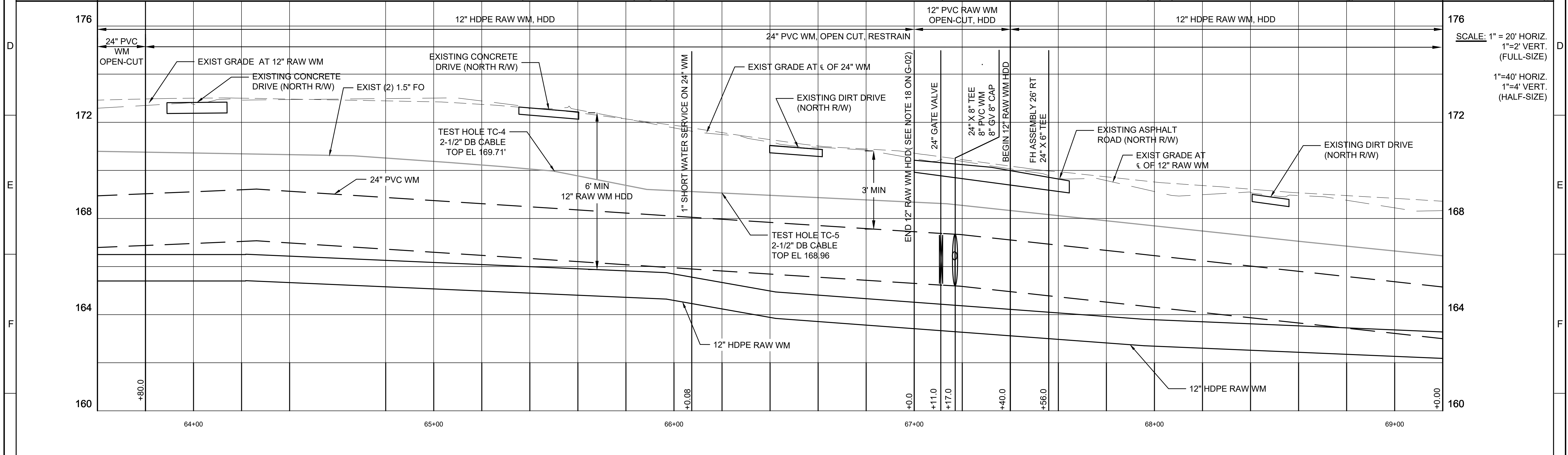
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
PCU PN 2014-04-30-0
ORACLE NO. 6857014
DRAWING NO.
C-11
SHEET NO.
C-11 OF C-46



- NOTES:**
- 1. FIBER OPTIC SHALL BE PROTECTED AND SUPPORTED DURING EXCAVATION AND PIPE INSTALLATION.
 - 2. EXISTING TELEPHONE TO BE PROTECTED AND SUPPORTED DURING INSTALLATION OF 12\"/>

- 4. MAINTAIN EXISTING WATER SERVICE IN OPERATION UNTIL NEW SERVICE IS OPERATIONAL. PROVIDE TEMPORARY JUMPER FROM EXISTING SERVICE LINE TO METER DURING CONSTRUCTION OF THE 24\"/>



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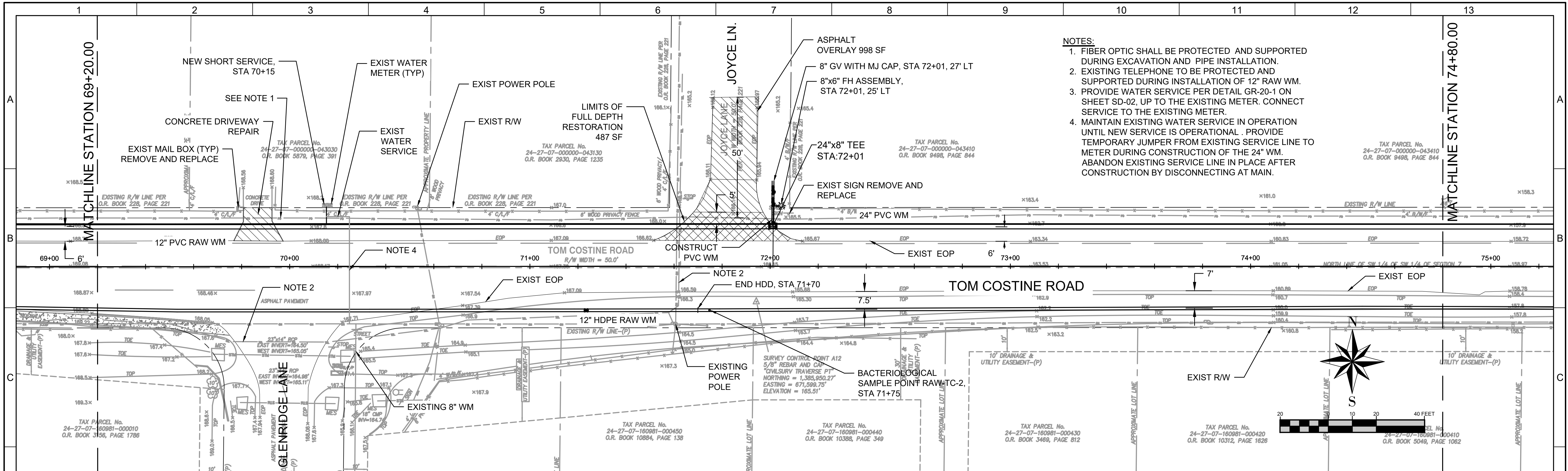
DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



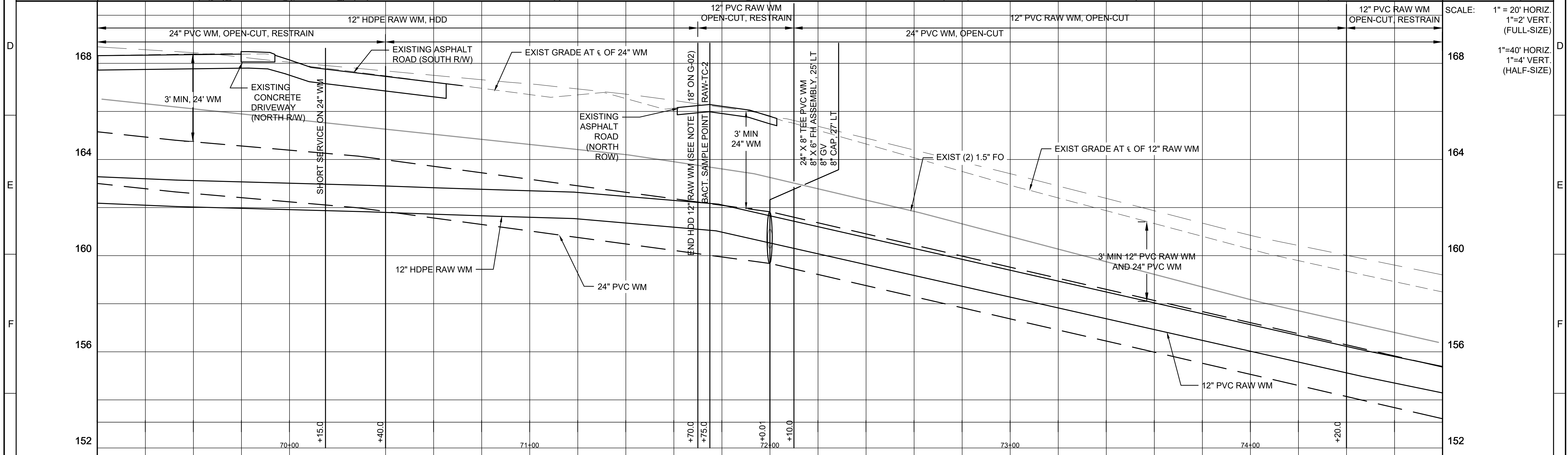
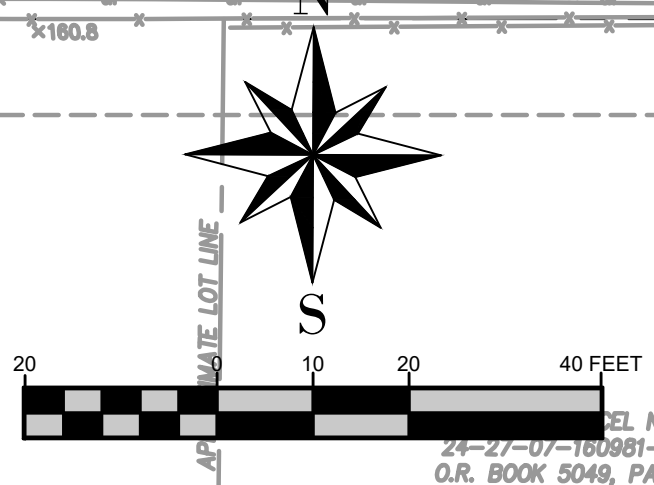
POLK COUNTY UTILITIES GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS PLAN AND PROFILE TOM COSTINE ROAD-2	
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VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 20 40 FEET 1"	JOB NO. PCU PN 2014-04-30-0 ORACLE NO. 6857014 DRAWING NO. C-12 SHEET NO. C-12 OF C-46
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
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- NOTES:**
1. FIBER OPTIC SHALL BE PROTECTED AND SUPPORTED DURING EXCAVATION AND PIPE INSTALLATION.
 2. EXISTING TELEPHONE TO BE PROTECTED AND SUPPORTED DURING INSTALLATION OF 12" RAW WM.
 3. PROVIDE WATER SERVICE PER DETAIL GR-20-1 ON SHEET SD-02, UP TO THE EXISTING METER. CONNECT SERVICE TO THE EXISTING METER.
 4. MAINTAIN EXISTING WATER SERVICE IN OPERATION UNTIL NEW SERVICE IS OPERATIONAL. PROVIDE TEMPORARY JUMPER FROM EXISTING SERVICE LINE TO METER DURING CONSTRUCTION OF THE 24" WM. ABANDON EXISTING SERVICE LINE IN PLACE AFTER CONSTRUCTION BY DISCONNECTING AT MAIN.



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DATE JUNE 2020	

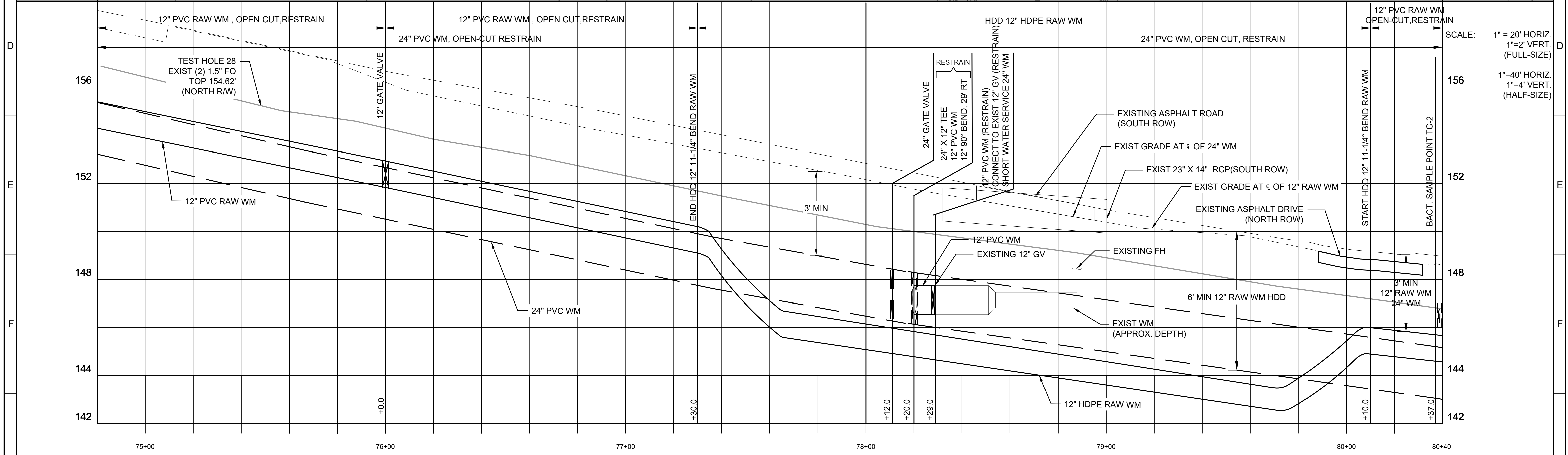
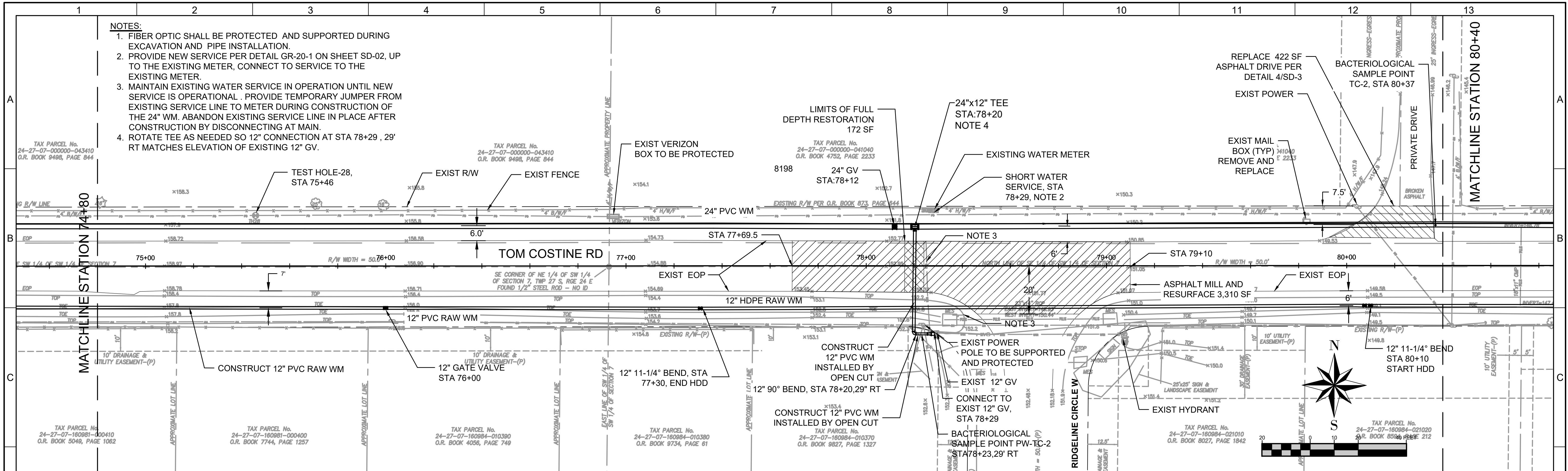


POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
PLAN AND PROFILE
TOM COSTINE ROAD-3

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
PCU PN 2014-04-30-0
ORACLE NO. 6857014
DRAWING NO.
C-13
SHEET NO.
C-13 OF C-46

- NOTES:**
- FIBER OPTIC SHALL BE PROTECTED AND SUPPORTED DURING EXCAVATION AND PIPE INSTALLATION.
 - PROVIDE NEW SERVICE PER DETAIL GR-20-1 ON SHEET SD-02, UP TO THE EXISTING METER, CONNECT TO SERVICE TO THE EXISTING METER.
 - MAINTAIN EXISTING WATER SERVICE IN OPERATION UNTIL NEW SERVICE IS OPERATIONAL. PROVIDE TEMPORARY JUMPER FROM EXISTING SERVICE LINE TO METER DURING CONSTRUCTION OF THE 24" WM. ABANDON EXISTING SERVICE LINE IN PLACE AFTER CONSTRUCTION BY DISCONNECTING AT MAIN.
 - ROTATE TEE AS NEEDED SO 12" CONNECTION AT STA 78+29, 29' RT MATCHES ELEVATION OF EXISTING 12" GV.



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DESIGNED M.O.	
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DATE JUNE 2020	

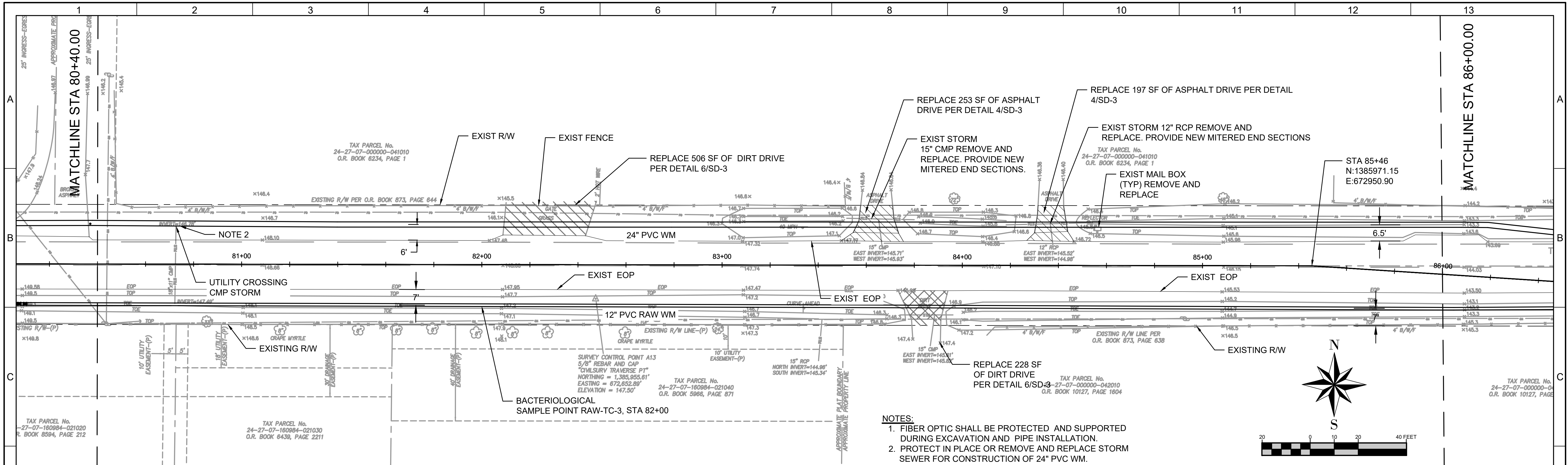


POLK COUNTY UTILITIES	
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS	
PLAN AND PROFILE	
TOM COSTINE ROAD-4	

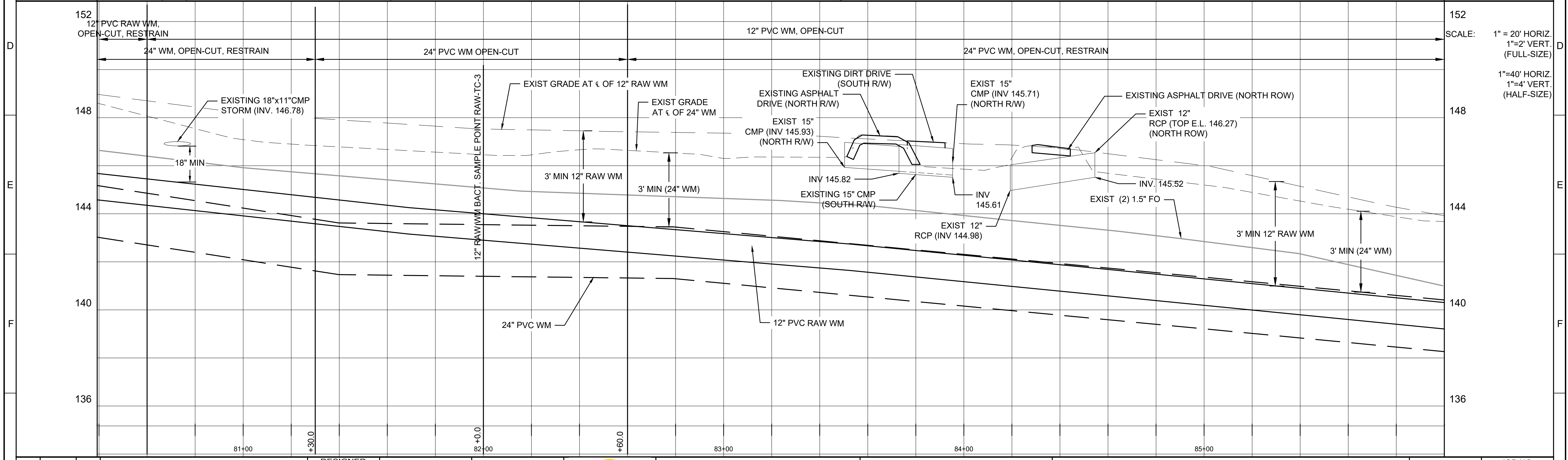
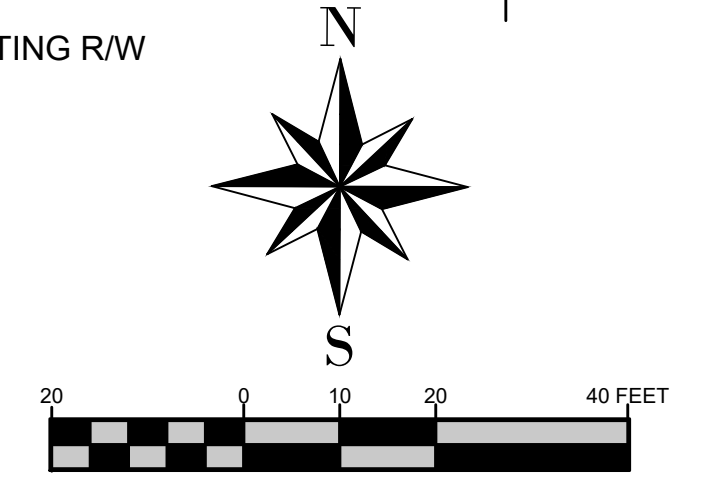
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. PCU PN 2014-04-30-0 ORACLE NO. 6857014
DRAWING NO. C-14
SHEET NO. C-14 OF C-46



- NOTES:**
1. FIBER OPTIC SHALL BE PROTECTED AND SUPPORTED DURING EXCAVATION AND PIPE INSTALLATION.
 2. PROTECT IN PLACE OR REMOVE AND REPLACE STORM SEWER FOR CONSTRUCTION OF 24" PVC WM.



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DATE JUNE 2020	



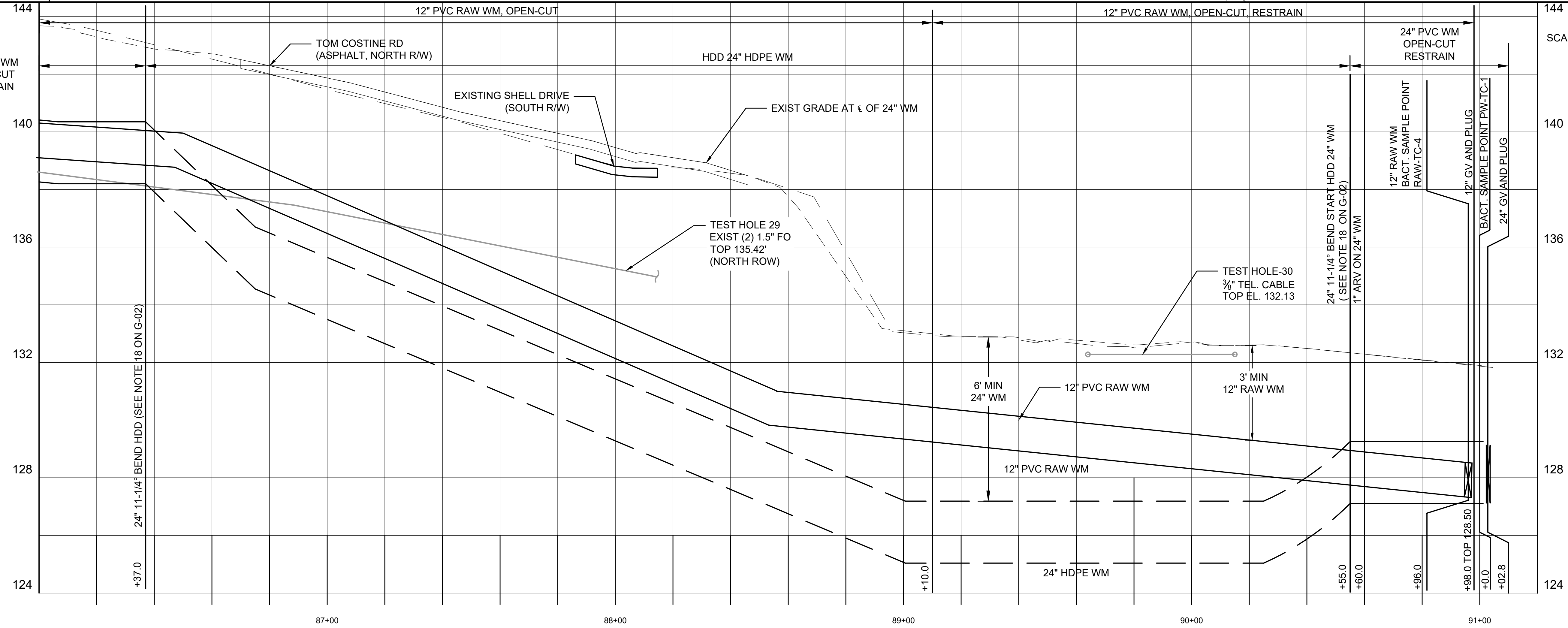
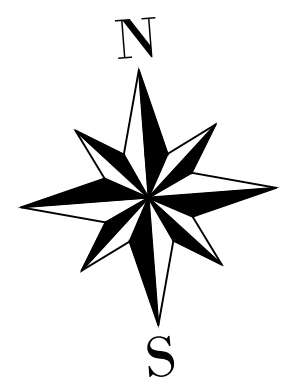
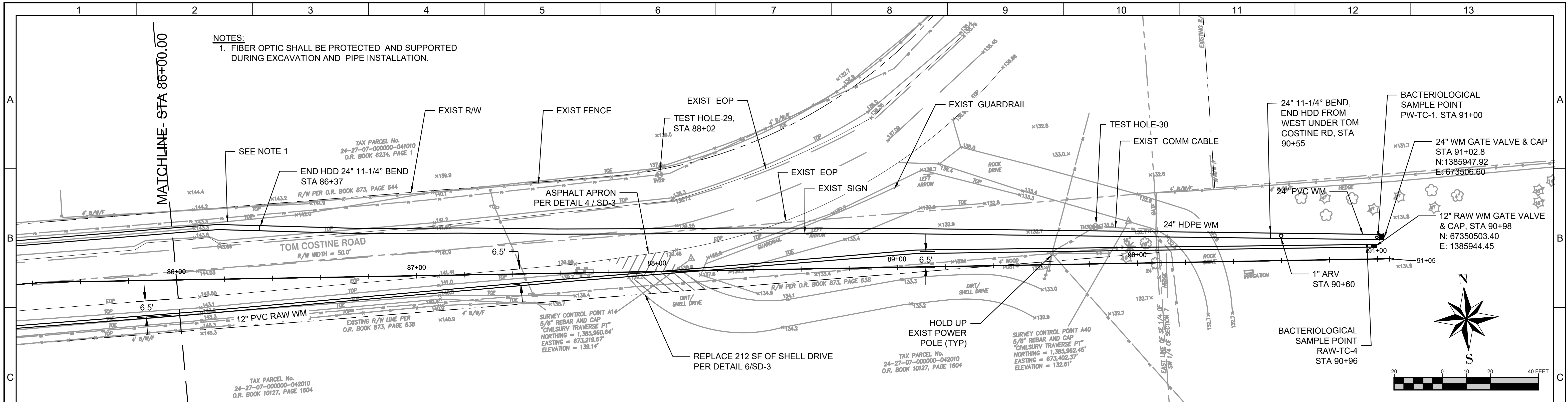
POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
 PLAN AND PROFILE
TOM COSTINE ROAD-5

VERIFY SCALES
 BAR IS ONE INCH
 ON ORIGINAL
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 0 1"

JOB NO.
 PCU PN 2014-04-30-0
 ORACLE NO. 6857014
 DRAWING NO.
C-15
 SHEET NO.
 C-15 OF C-46

NOTES:
 1. FIBER OPTIC SHALL BE PROTECTED AND SUPPORTED DURING EXCAVATION AND PIPE INSTALLATION.

MATCHLINE- STA 86+00.00



SCALE: 1" = 20' HORIZ.
 1" = 2' VERT. (FULL-SIZE)
 1" = 40' HORIZ.
 1" = 4' VERT. (HALF-SIZE)

REV	DATE	BY	DESCRIPTION
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DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



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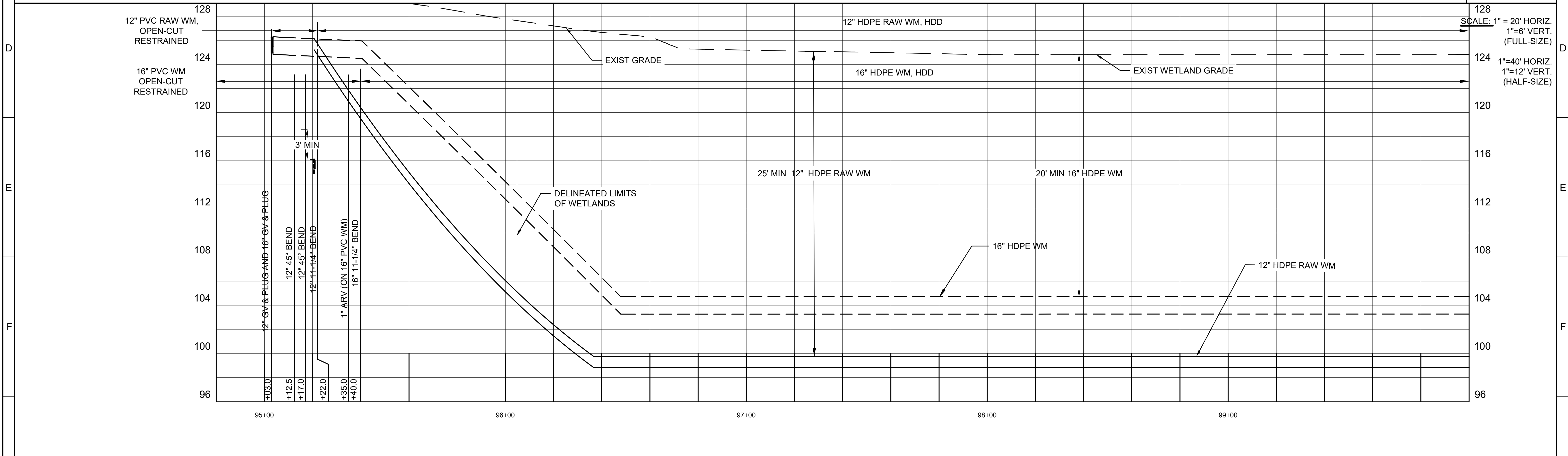
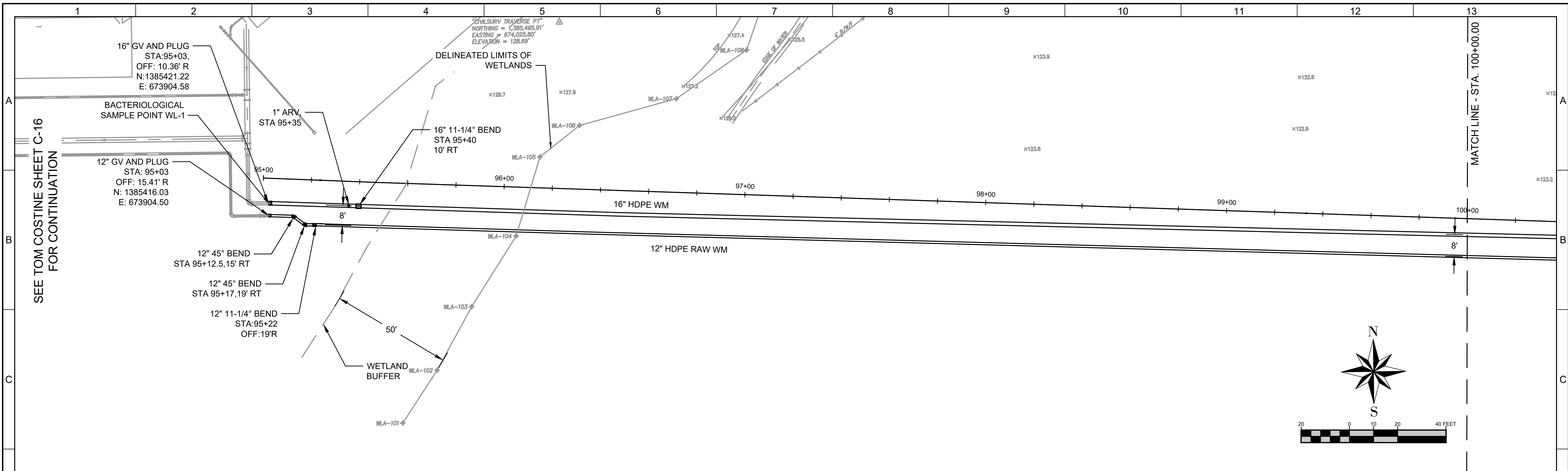
POLK COUNTY UTILITIES
 GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
 PLAN AND PROFILE
 TOM COSTINE ROAD-6

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1" 40 FEET
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

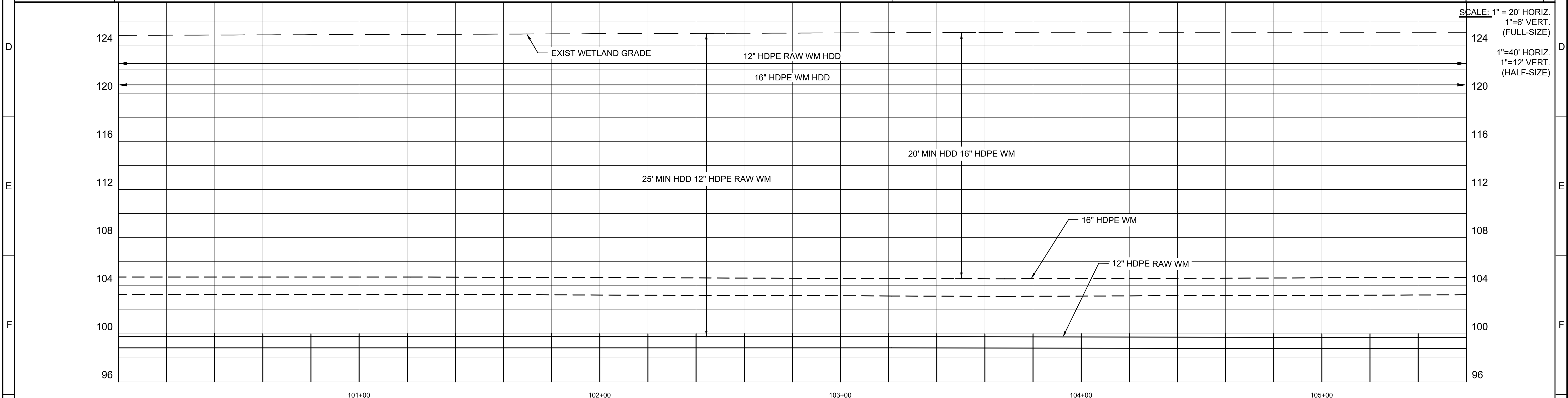
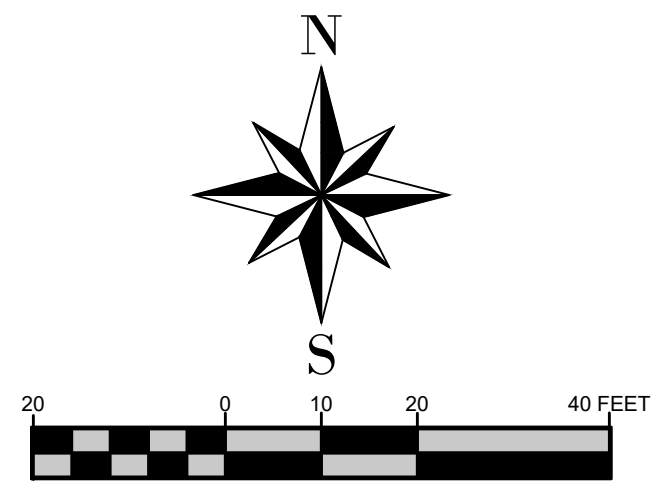
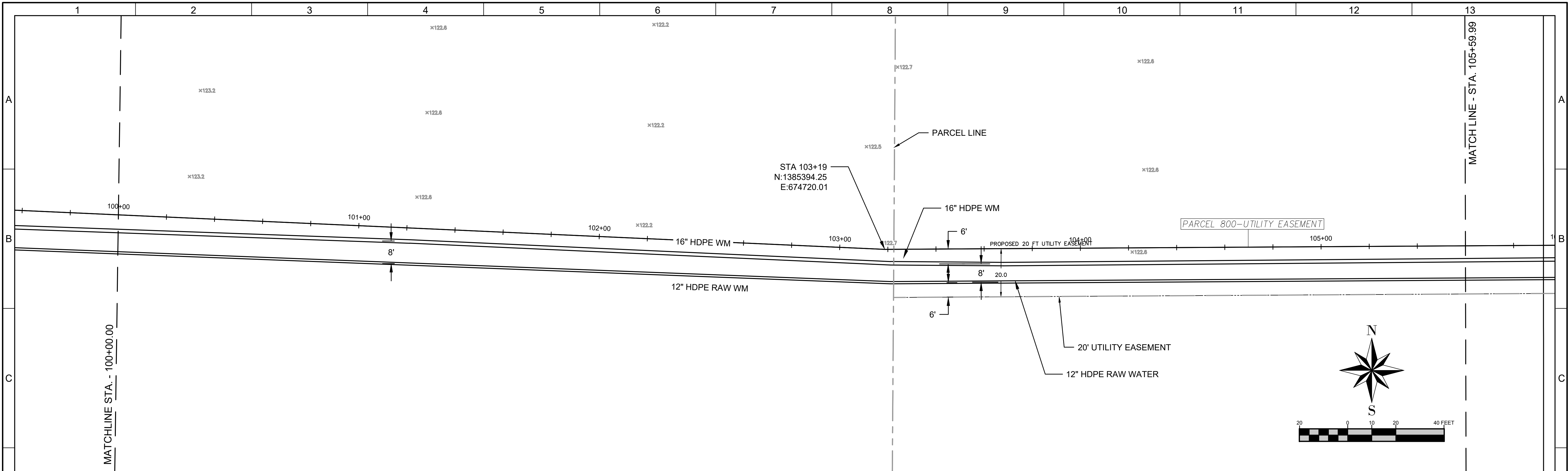
JOB NO.
 PCU PN 2014-04-30-0
 ORACLE NO. 6857014

DRAWING NO.
 C-16

SHEET NO.
 C-16 OF C-46



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DESIGNED M.O.	DRAWN C.M.	CHECKED D.W.											
DATE JUNE 2020													



SCALE: 1" = 20' HORIZ.
 1" = 6' VERT. (FULL-SIZE)
 1" = 40' HORIZ.
 1" = 12' VERT. (HALF-SIZE)

REV	DATE	BY	DESCRIPTION
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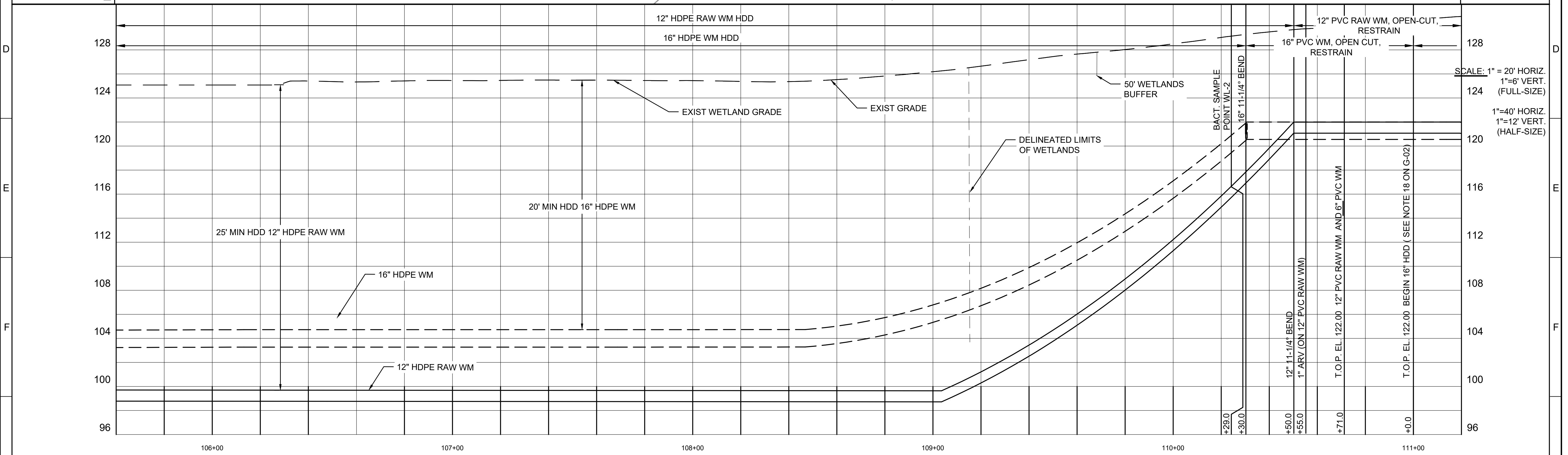
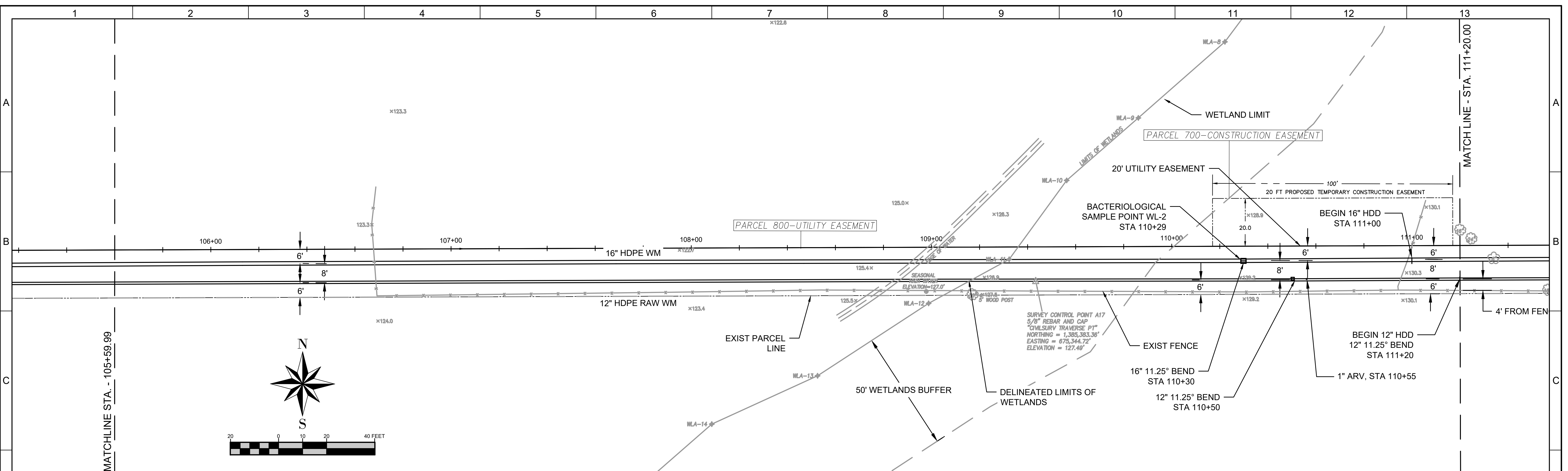
DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



POLK COUNTY UTILITIES
 GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS

PLAN AND PROFILE
 WETLANDS - 2

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
 JOB NO. PCU PN 2014-04-30-0 ORACLE NO. 6857014
 DRAWING NO. C-18
 SHEET NO. C-18 OF C-46



REV	DATE	BY	DESCRIPTION

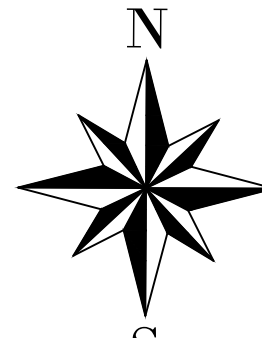
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DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



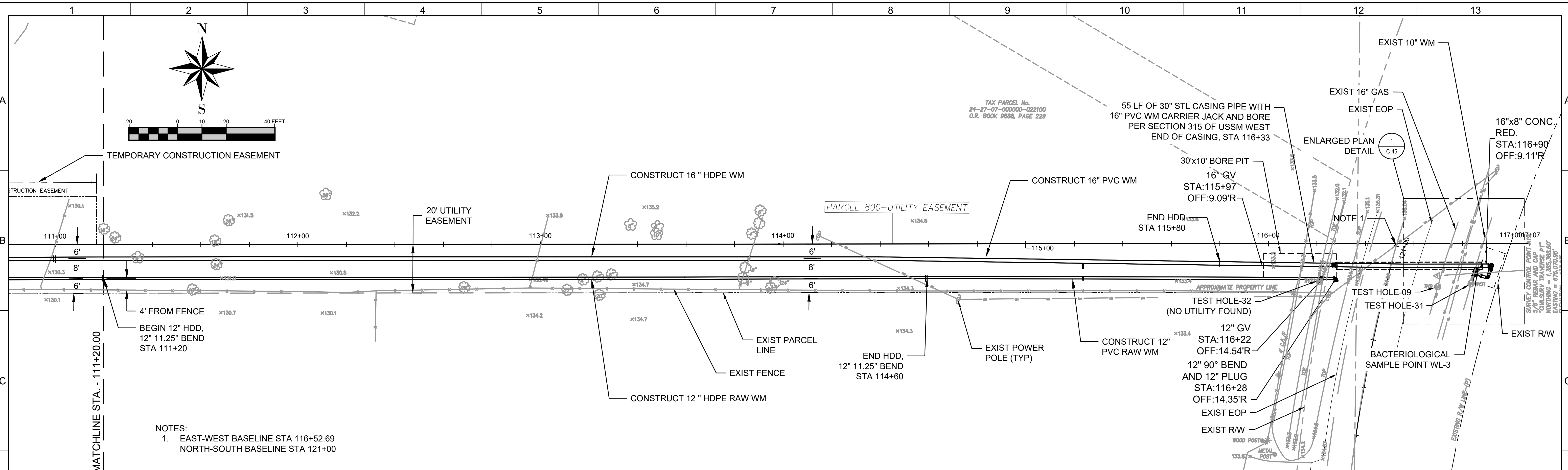
POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
PLAN AND PROFILE
WETLANDS - 3

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING	
0 1"	
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	

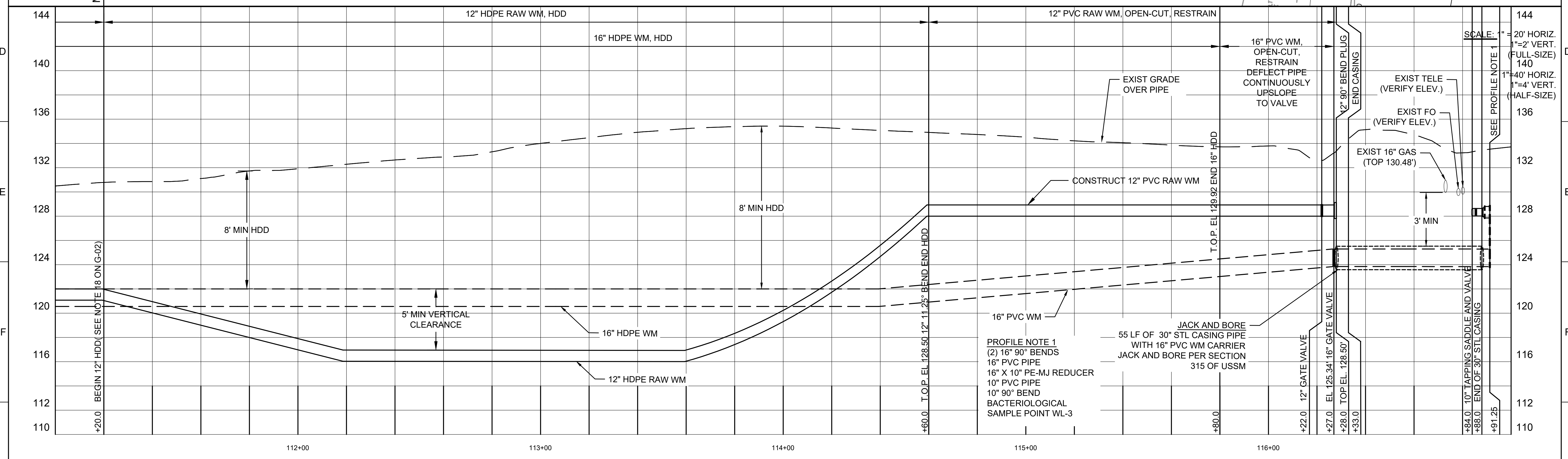
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DRAWING NO. C-19	
SHEET NO. C-19 OF C-46	



TAX PARCEL No.
24-27-07-000000-022100
O.R. BOOK 9888, PAGE 229



NOTES:
1. EAST-WEST BASELINE STA 116+52.69
NORTH-SOUTH BASELINE STA 121+00



REV	DATE	BY	DESCRIPTION
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DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



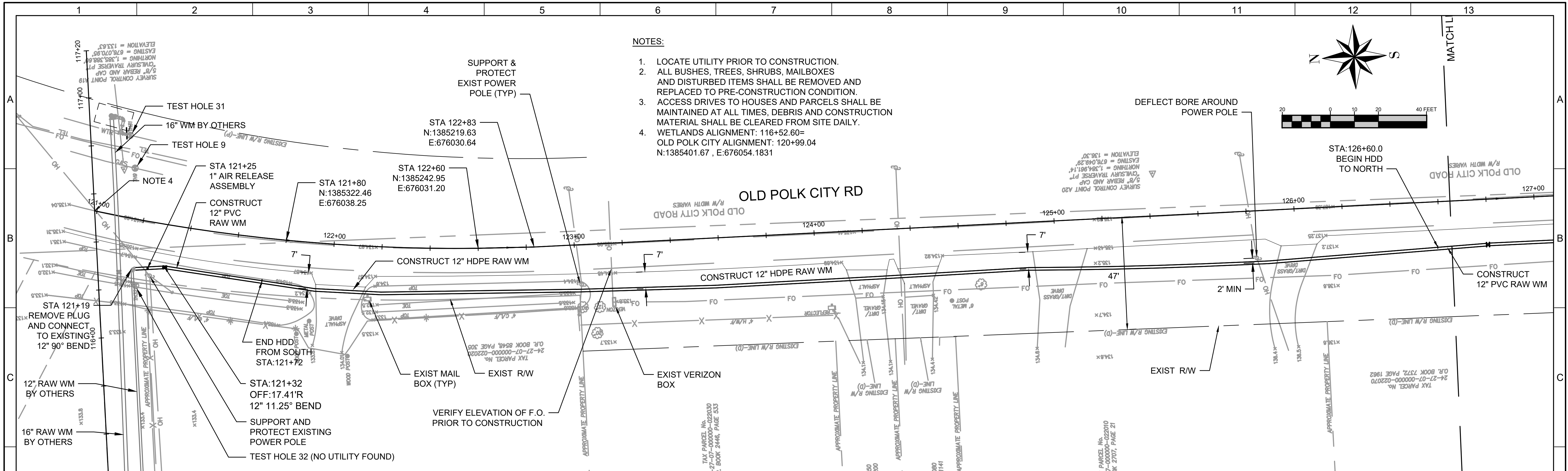
POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
PLAN AND PROFILE
WETLANDS - 4

VERIFY SCALES
BAR IS ONE INCH
ON ORIGINAL
DRAWING
0 1"
IF NOT ONE INCH ON THIS
SHEET, ADJUST SCALES
ACCORDINGLY

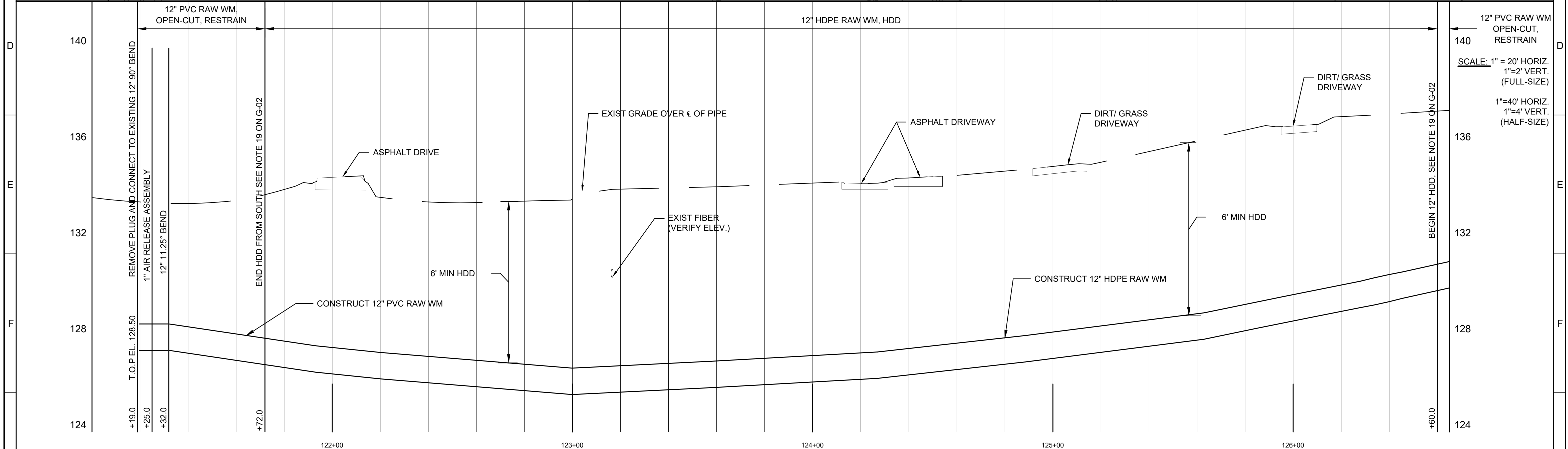
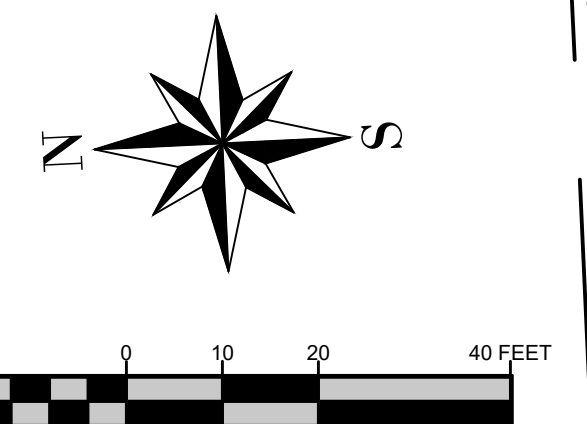
JOB NO.
PCU PN 2014-04-30-0
ORACLE NO. 6857014

DRAWING NO.
C-20

SHEET NO.
C-20 OF C-46



- NOTES:**
1. LOCATE UTILITY PRIOR TO CONSTRUCTION.
 2. ALL BUSHES, TREES, SHRUBS, MAILBOXES AND DISTURBED ITEMS SHALL BE REMOVED AND REPLACED TO PRE-CONSTRUCTION CONDITION.
 3. ACCESS DRIVES TO HOUSES AND PARCELS SHALL BE MAINTAINED AT ALL TIMES. DEBRIS AND CONSTRUCTION MATERIAL SHALL BE CLEARED FROM SITE DAILY.
 4. WETLANDS ALIGNMENT: 116+52.60= OLD POLK CITY ALIGNMENT: 120+99.04 N:1385401.67, E:676054.1831



REV	DATE	BY	DESCRIPTION
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3			

DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



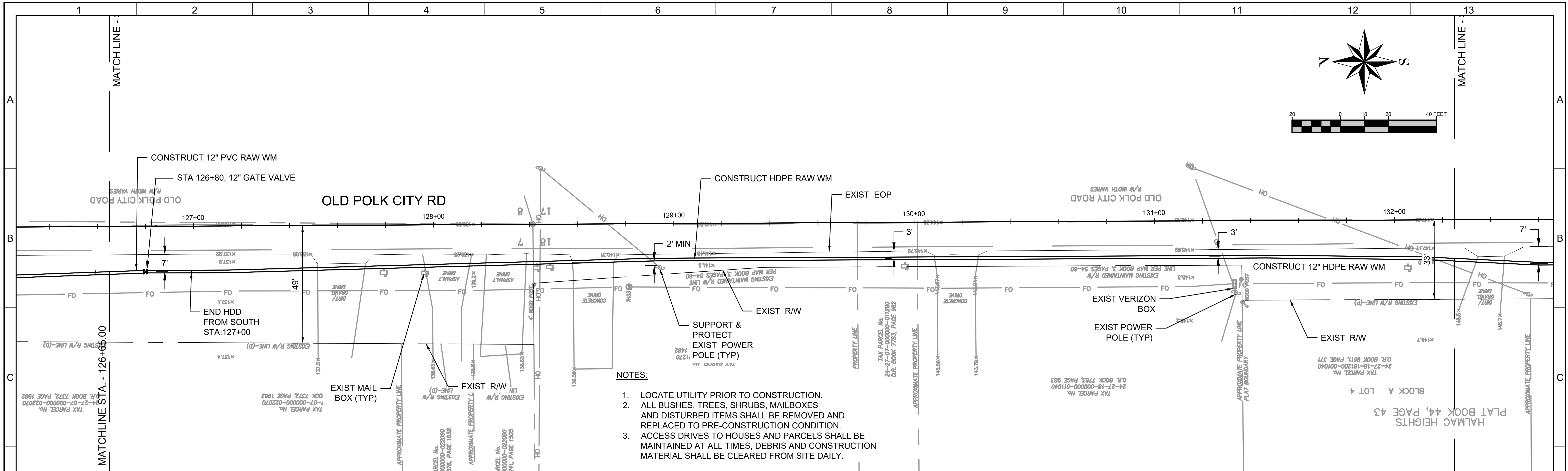
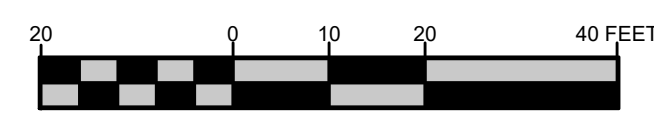
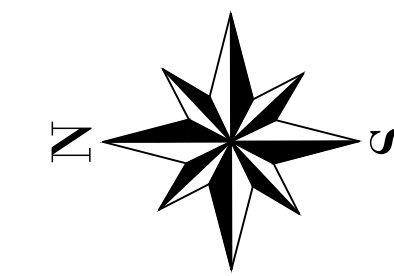
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POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
 PLAN AND PROFILE
OLD POLK CITY ROAD -1

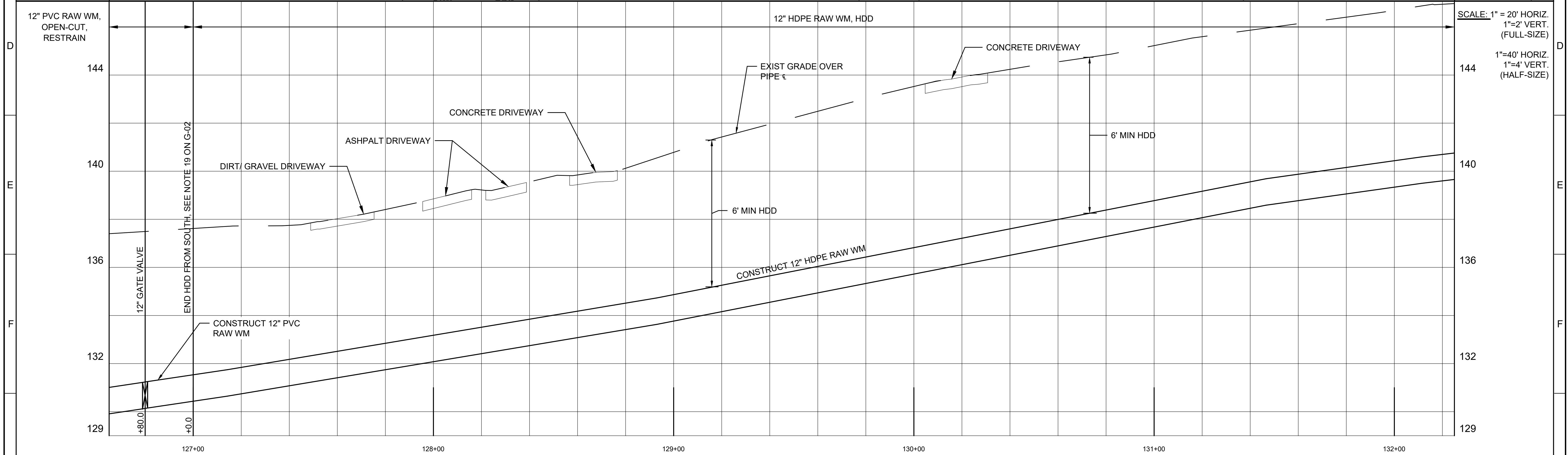
VERIFY SCALES
 BAR IS ONE INCH
 ON ORIGINAL
 DRAWING

 IF NOT ONE INCH ON THIS
 SHEET, ADJUST SCALES
 ACCORDINGLY

JOB NO.
 PCU PN 2014-04-30-0
 ORACLE NO. 6857014
 DRAWING NO.
C-21
 SHEET NO.
 C-21 OF C-46



- NOTES:**
1. LOCATE UTILITY PRIOR TO CONSTRUCTION.
 2. ALL BUSHES, TREES, SHRUBS, MAILBOXES AND DISTURBED ITEMS SHALL BE REMOVED AND REPLACED TO PRE-CONSTRUCTION CONDITION.
 3. ACCESS DRIVES TO HOUSES AND PARCELS SHALL BE MAINTAINED AT ALL TIMES. DEBRIS AND CONSTRUCTION MATERIAL SHALL BE CLEARED FROM SITE DAILY.



SCALE: 1" = 20' HORIZ.
1" = 2' VERT. (FULL-SIZE)
1" = 40' HORIZ.
1" = 4' VERT. (HALF-SIZE)

REV	DATE	BY	DESCRIPTION
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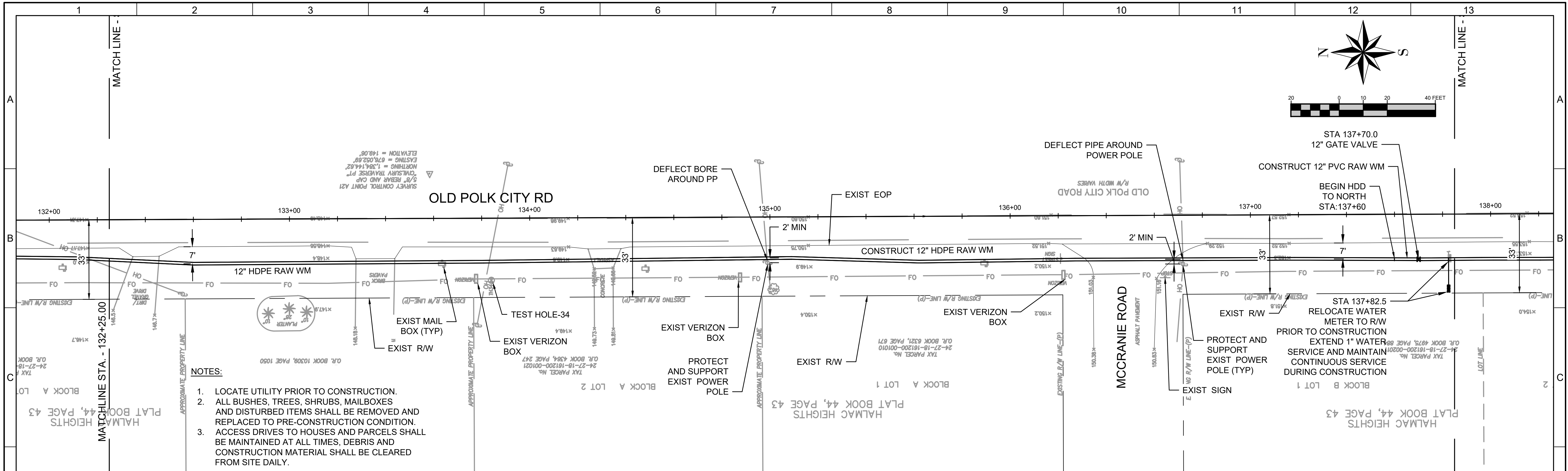
DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



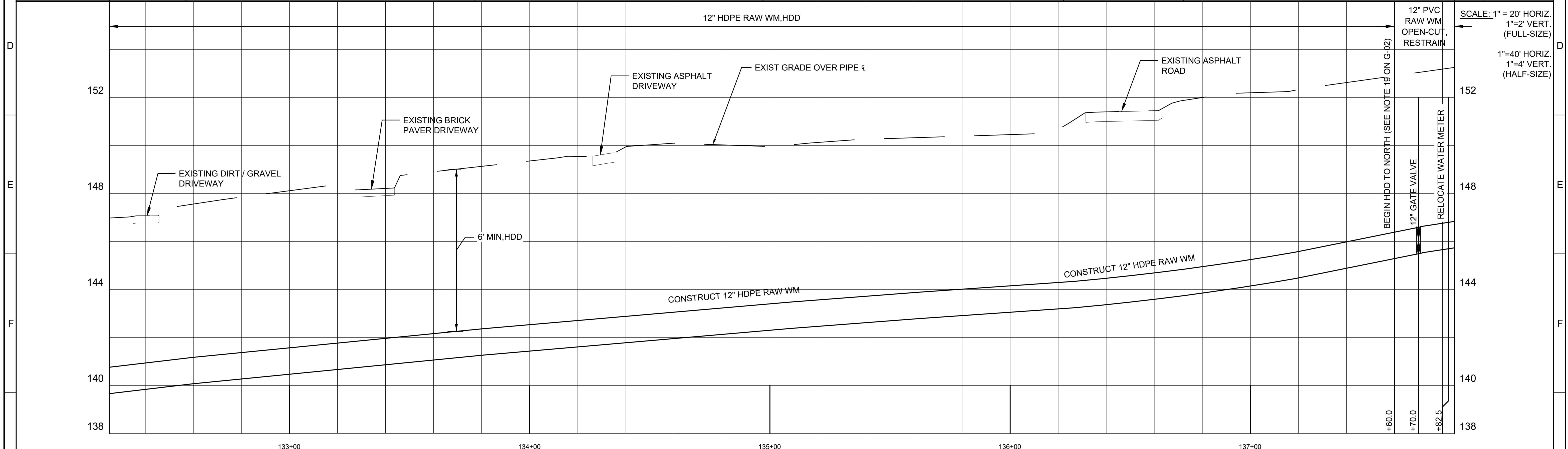
POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
PLAN AND PROFILE
OLD POLK CITY ROAD -2

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
PCU PN 2014-04-30-0
ORACLE NO. 6857014
DRAWING NO.
C-22
SHEET NO.
C-22 OF C-46



- NOTES:**
1. LOCATE UTILITY PRIOR TO CONSTRUCTION.
 2. ALL BUSHES, TREES, SHRUBS, MAILBOXES AND DISTURBED ITEMS SHALL BE REMOVED AND REPLACED TO PRE-CONSTRUCTION CONDITION.
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REV	DATE	BY	DESCRIPTION
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DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
PLAN AND PROFILE
OLD POLK CITY ROAD-3

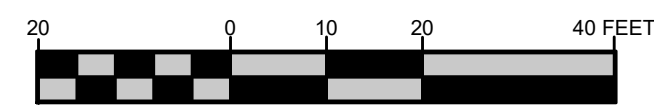
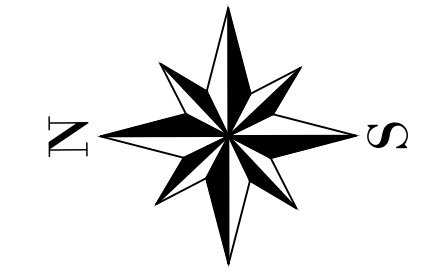
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

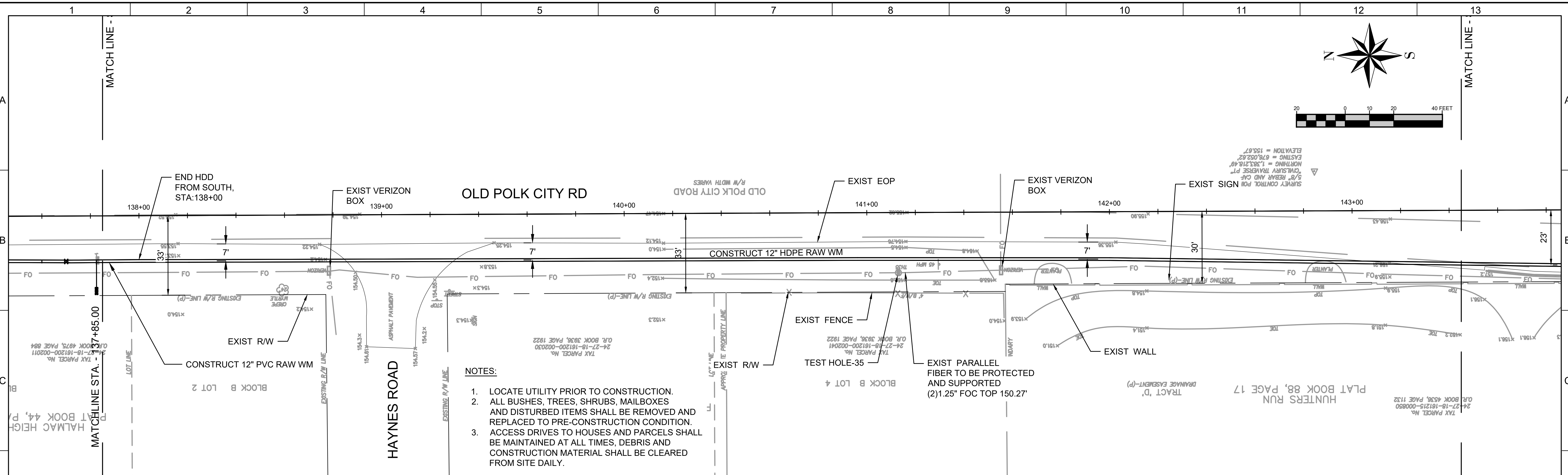
JOB NO.
PCU PN 2014-04-30-0
ORACLE NO. 6857014

DRAWING NO.
C-23

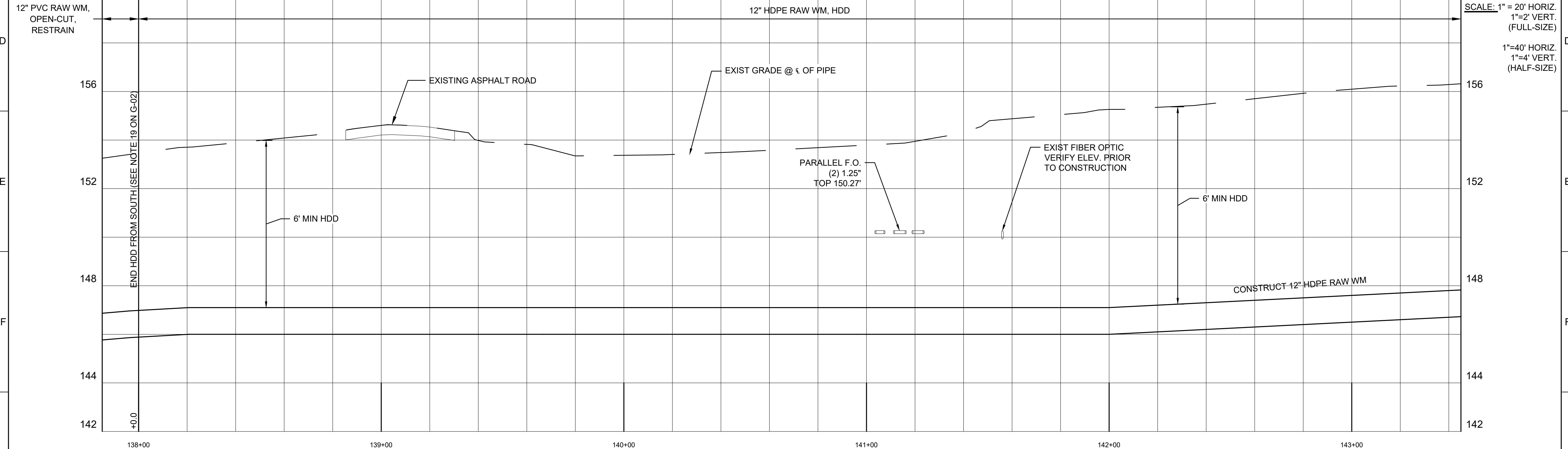
SHEET NO.
C-23 OF C-46



SURVEY CONTROL POINT
 5/8" REBAR AND CAP
 COMPOSITE TRAVERSE PT
 NORTHING = 1,293,218.49'
 EASTING = 676,052.62'
 ELEVATION = 155.67'



- NOTES:**
1. LOCATE UTILITY PRIOR TO CONSTRUCTION.
 2. ALL BUSHES, TREES, SHRUBS, MAILBOXES AND DISTURBED ITEMS SHALL BE REMOVED AND REPLACED TO PRE-CONSTRUCTION CONDITION.
 3. ACCESS DRIVES TO HOUSES AND PARCELS SHALL BE MAINTAINED AT ALL TIMES, DEBRIS AND CONSTRUCTION MATERIAL SHALL BE CLEARED FROM SITE DAILY.



REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
 PLAN AND PROFILE
OLD POLK CITY ROAD - 4

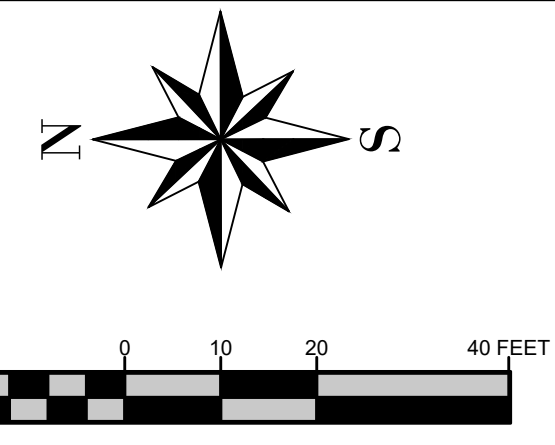
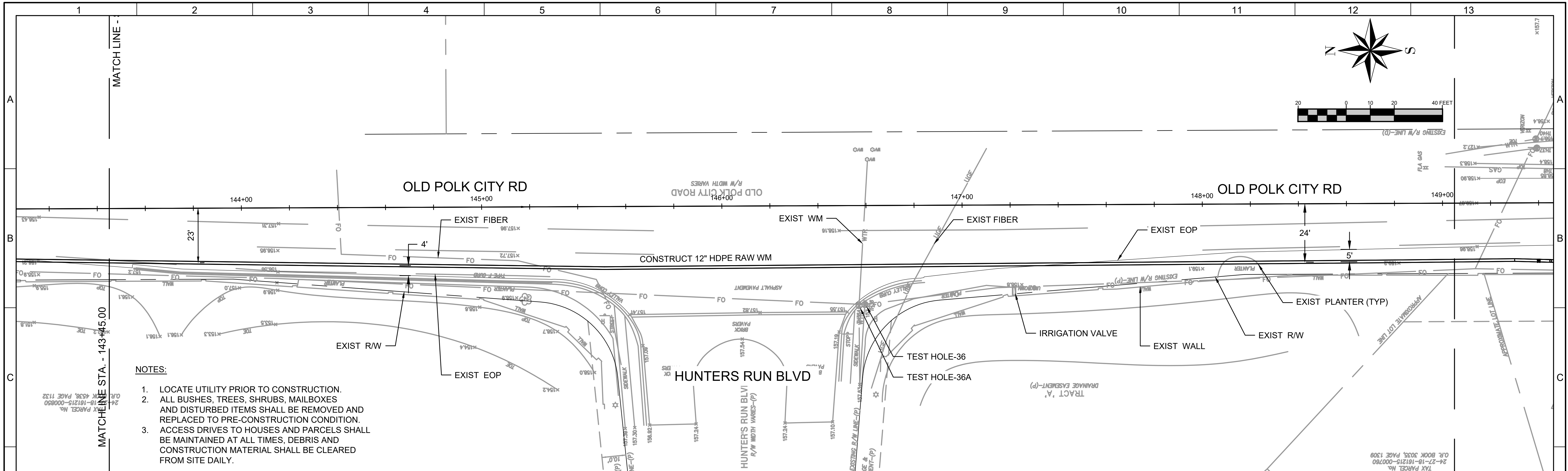
VERIFY SCALES
 BAR IS ONE INCH
 ON ORIGINAL
 DRAWING

 IF NOT ONE INCH ON THIS
 SHEET, ADJUST SCALES
 ACCORDINGLY

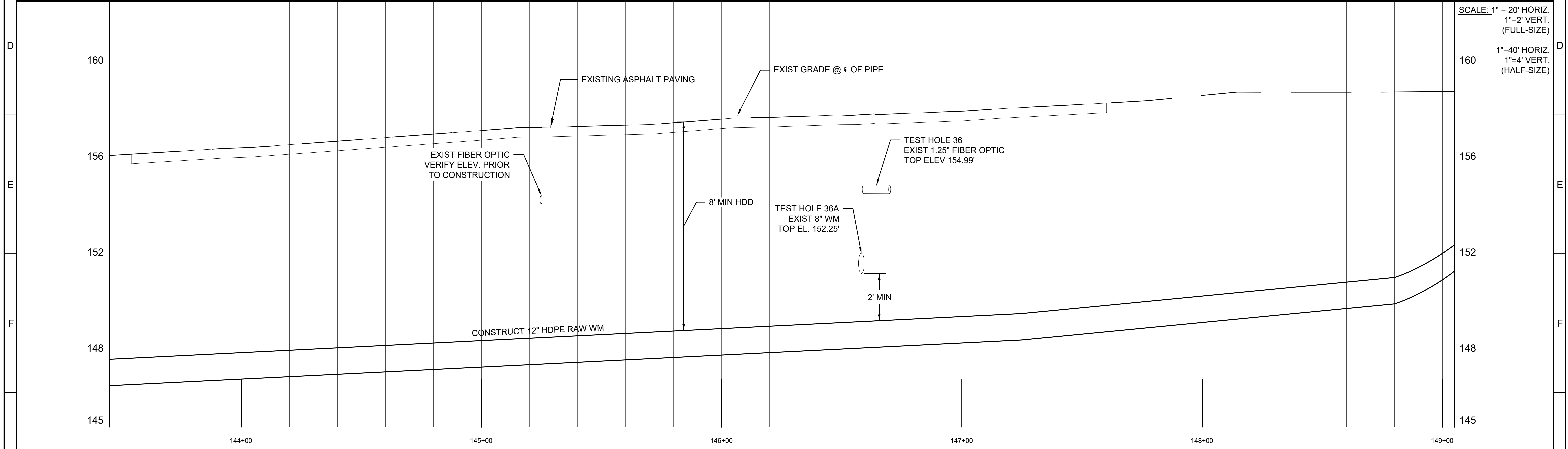
JOB NO.
 PCU PN 2014-04-30-0
 ORACLE NO. 6857014

DRAWING NO.
C-24

SHEET NO.
 C-24 OF C-46



- NOTES:**
1. LOCATE UTILITY PRIOR TO CONSTRUCTION.
 2. ALL BUSHES, TREES, SHRUBS, MAILBOXES AND DISTURBED ITEMS SHALL BE REMOVED AND REPLACED TO PRE-CONSTRUCTION CONDITION.
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SCALE: 1" = 20' HORIZ.
 1" = 2' VERT. (FULL-SIZE)
 1" = 40' HORIZ.
 1" = 4' VERT. (HALF-SIZE)

REV	DATE	BY	DESCRIPTION
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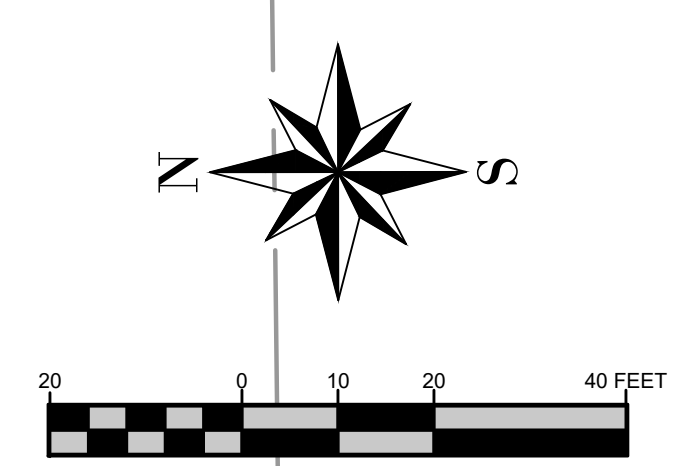
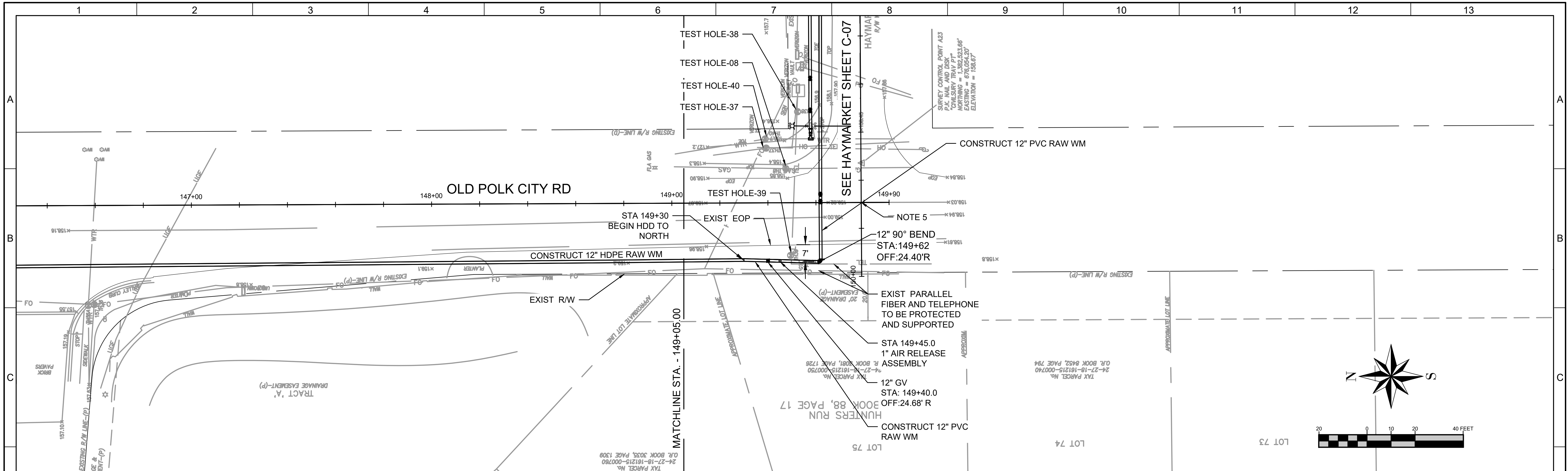
DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



POLK COUNTY UTILITIES
 GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
 PLAN AND PROFILE
 OLD POLK CITY ROAD - 5

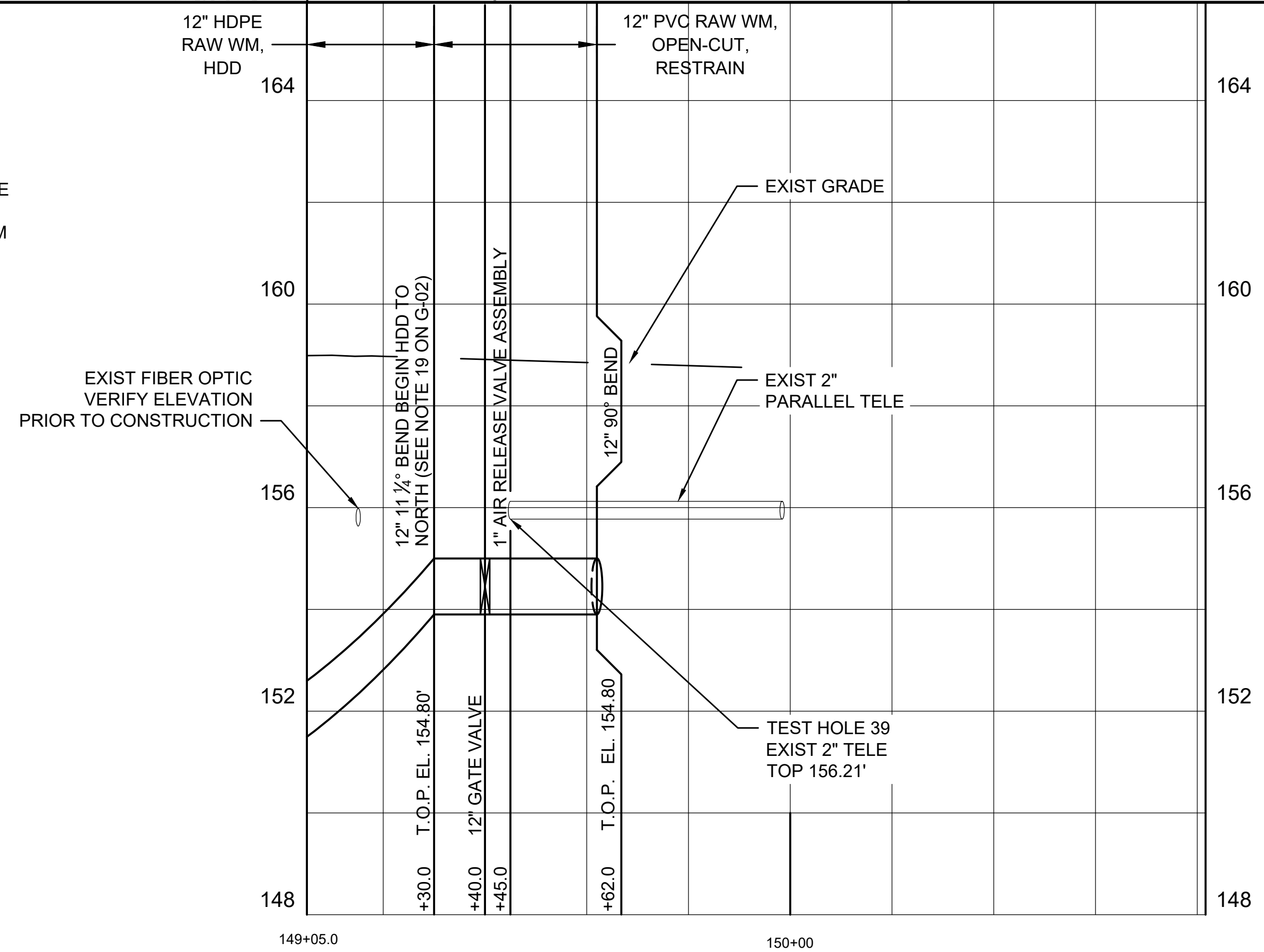
VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
 PCU PN 2014-04-30-0
 ORACLE NO. 6857014
 DRAWING NO.
 C-25
 SHEET NO.
 C-25 OF C-46



NOTES:

1. LOCATE UTILITY PRIOR TO CONSTRUCTION.
2. ALL BUSHES, TREES, SHRUBS, MAILBOXES AND DISTURBED ITEMS SHALL BE REMOVED AND REPLACED TO PRE-CONSTRUCTION CONDITION.
3. ACCESS DRIVES TO HOUSES AND PARCELS SHALL BE MAINTAINED AT ALL TIMES. DEBRIS AND CONSTRUCTION MATERIAL SHALL BE CLEARED FROM SITE DAILY.
4. FOR CONSTRUCTION EAST OF STA 149+62, 24.40' RT. SEE SHEET C-07.
5. STA 149+79 OF OLD POLK CITY ROAD BASELINE = STA 150+31 OF HAYMARKET ROAD BASELINE



SCALE: 1" = 20' HORIZ.
1" = 2' VERT. (FULL-SIZE)
1" = 40' HORIZ.
1" = 4' VERT. (HALF-SIZE)

REV	DATE	BY	DESCRIPTION
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DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



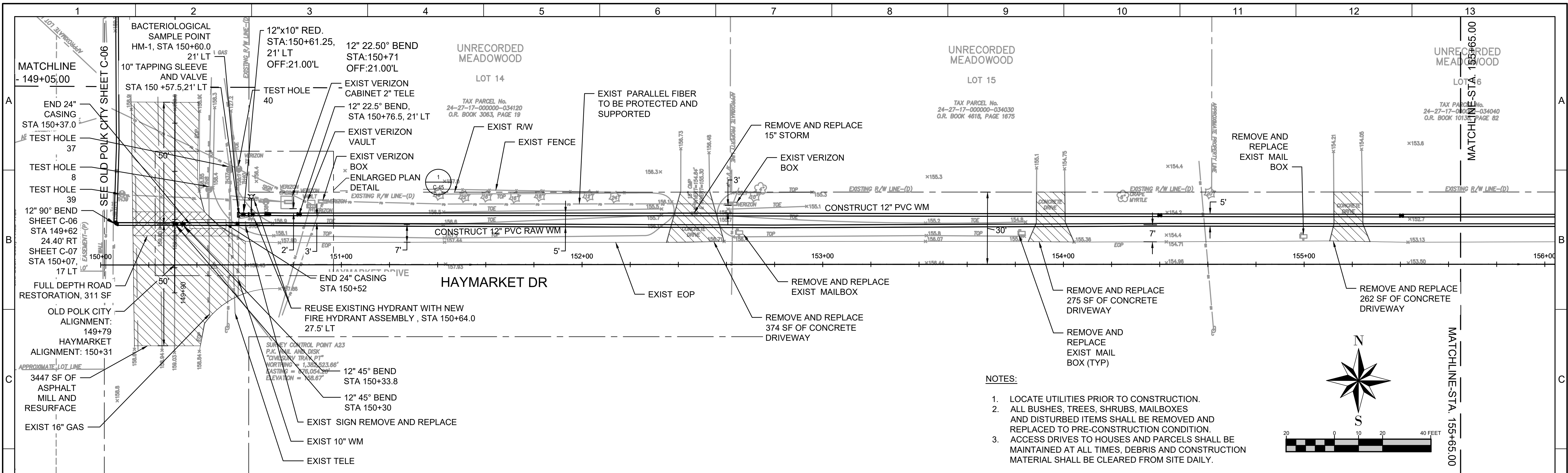
POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
PLAN AND PROFILE
OLD POLK CITY ROAD - 6

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1" 40 FEET
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

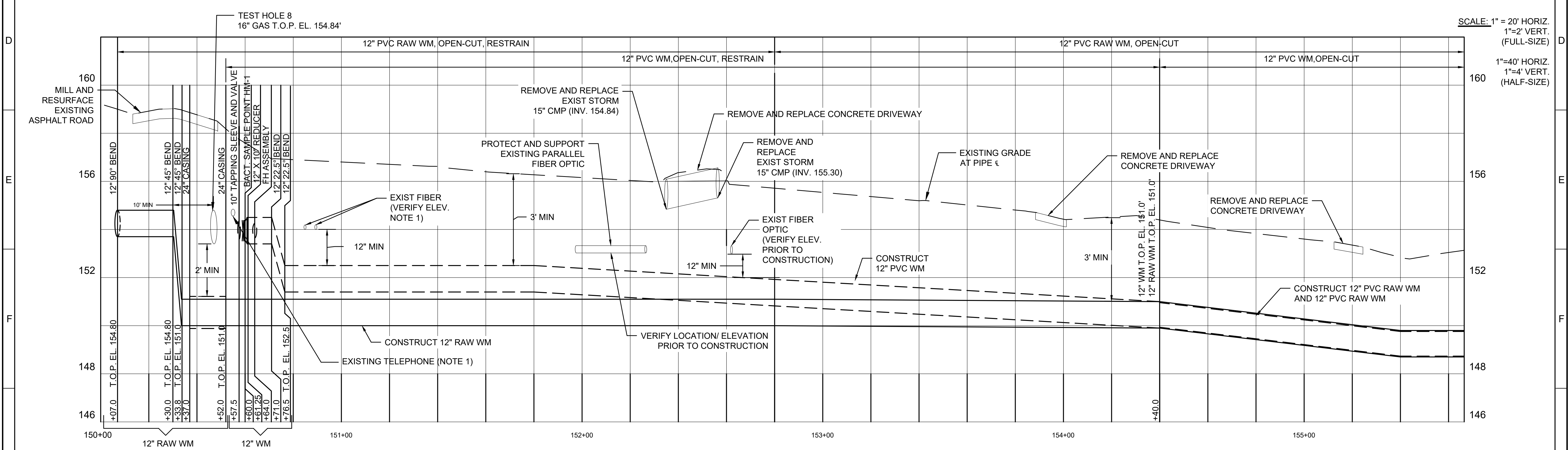
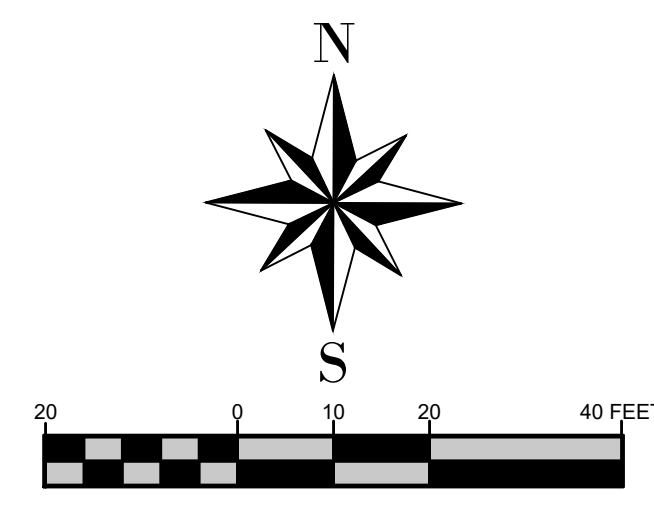
JOB NO.
PCU PN 2014-04-30-0
ORACLE NO. 6857014

DRAWING NO.
C-26

SHEET NO.
C-26 OF C-46



- NOTES:**
- LOCATE UTILITIES PRIOR TO CONSTRUCTION.
 - ALL BUSHES, TREES, SHRUBS, MAILBOXES AND DISTURBED ITEMS SHALL BE REMOVED AND REPLACED TO PRE-CONSTRUCTION CONDITION.
 - ACCESS DRIVES TO HOUSES AND PARCELS SHALL BE MAINTAINED AT ALL TIMES, DEBRIS AND CONSTRUCTION MATERIAL SHALL BE CLEARED FROM SITE DAILY.



SCALE: 1" = 20' HORIZ.
1" = 2' VERT. (FULL-SIZE)
1" = 40' HORIZ.
1" = 4' VERT. (HALF-SIZE)

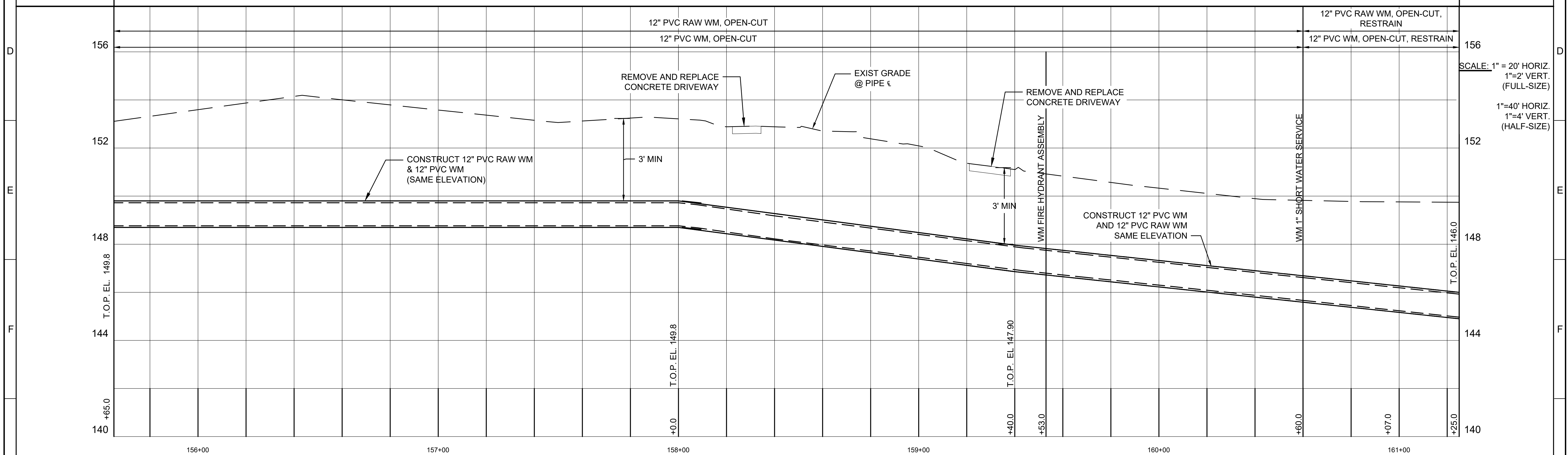
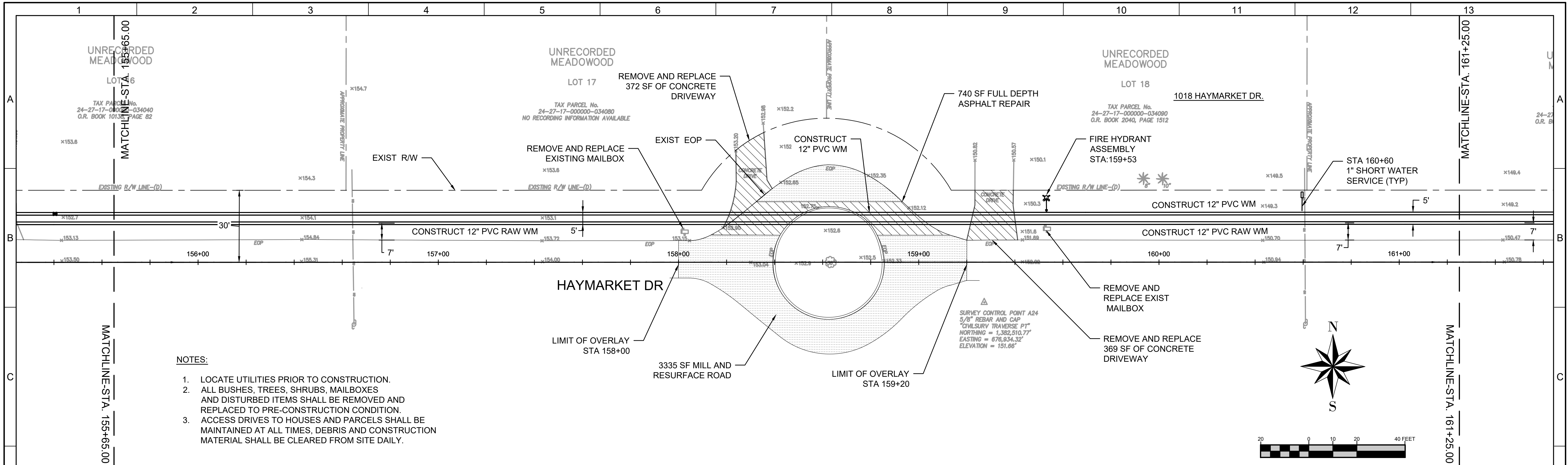
REV	DATE	BY	DESCRIPTION
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DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	

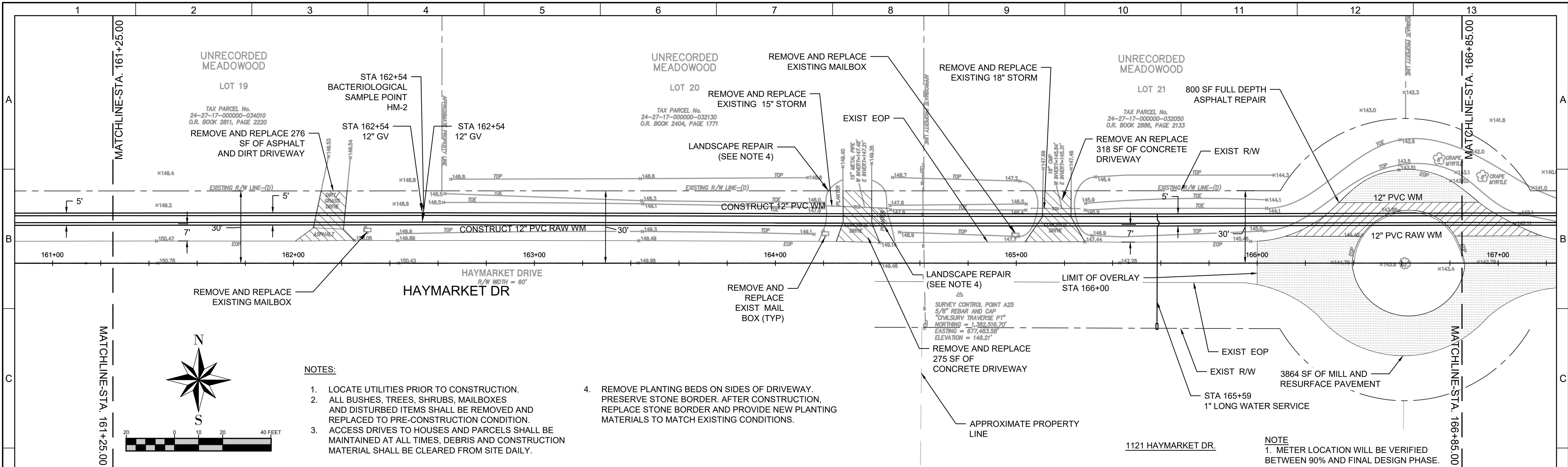


POLK COUNTY UTILITIES	
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS	
PLAN AND PROFILE	
HAYMARKET DRIVE - 1	

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING	JOB NO. PCU PN 2014-04-30-0 ORACLE NO. 6857014
0 10 20 40 FEET	DRAWING NO. C-27
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. C-27 OF C-46

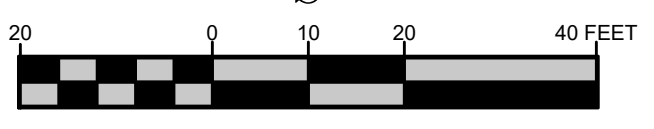
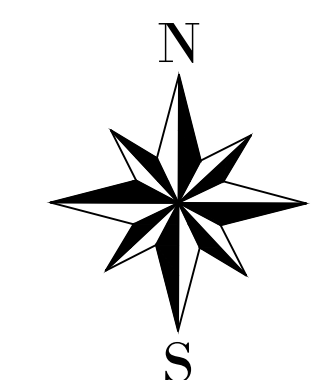


DESIGNED M.O.		 <small>3616 HARDEN BLVD., #110, LAKELAND, FL 33803 PH. (863) 559-2471</small>	POLK COUNTY UTILITIES		<small>VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING</small> <small>IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY</small>	<small>JOB NO. PCU PN 2014-04-30-0 ORACLE NO. 6857014</small> <small>DRAWING NO. C-28</small> <small>SHEET NO. C-28 OF C-46</small>
DRAWN C.M.			GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS			
CHECKED D.W.			PLAN AND PROFILE			
DATE JUNE 2020			HAYMARKET DRIVE - 2			
REV	DATE	BY	DESCRIPTION			
1						



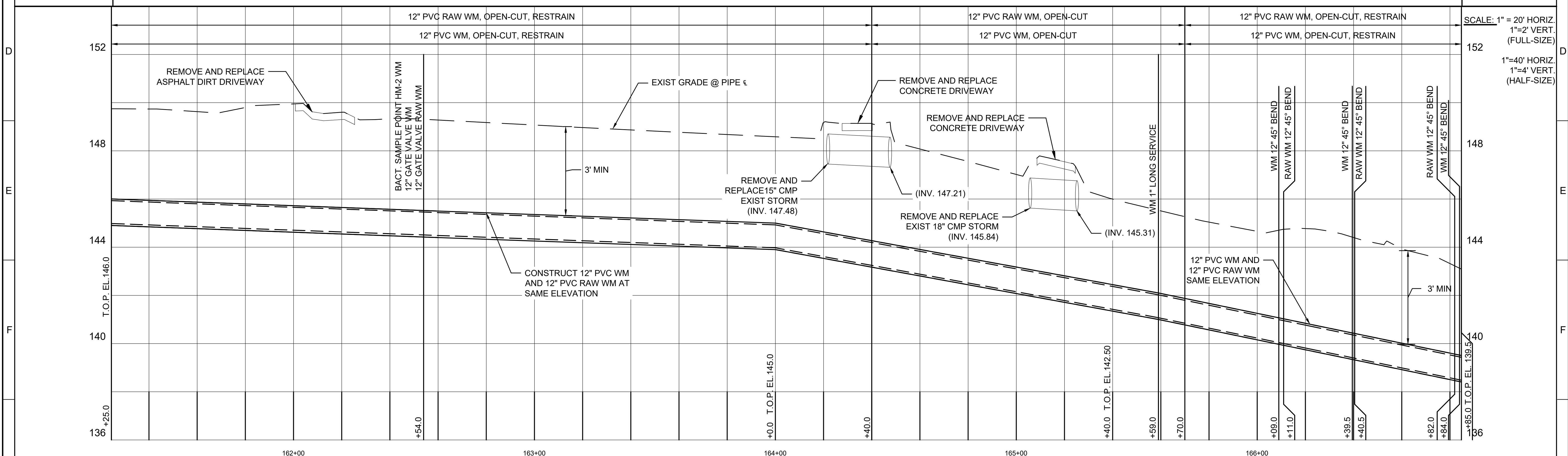
NOTES:

- LOCATE UTILITIES PRIOR TO CONSTRUCTION.
- ALL BUSHES, TREES, SHRUBS, MAILBOXES AND DISTURBED ITEMS SHALL BE REMOVED AND REPLACED TO PRE-CONSTRUCTION CONDITION.
- ACCESS DRIVES TO HOUSES AND PARCELS SHALL BE MAINTAINED AT ALL TIMES, DEBRIS AND CONSTRUCTION MATERIAL SHALL BE CLEARED FROM SITE DAILY.
- REMOVE PLANTING BEDS ON SIDES OF DRIVEWAY. PRESERVE STONE BORDER. AFTER CONSTRUCTION, REPLACE STONE BORDER AND PROVIDE NEW PLANTING MATERIALS TO MATCH EXISTING CONDITIONS.



1121 HAYMARKET DR.

NOTE
1. METER LOCATION WILL BE VERIFIED BETWEEN 90% AND FINAL DESIGN PHASE.



SCALE: 1" = 20' HORIZ.
1" = 2' VERT. (FULL-SIZE)
1" = 40' HORIZ.
1" = 4' VERT. (HALF-SIZE)

REV	DATE	BY	DESCRIPTION
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DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



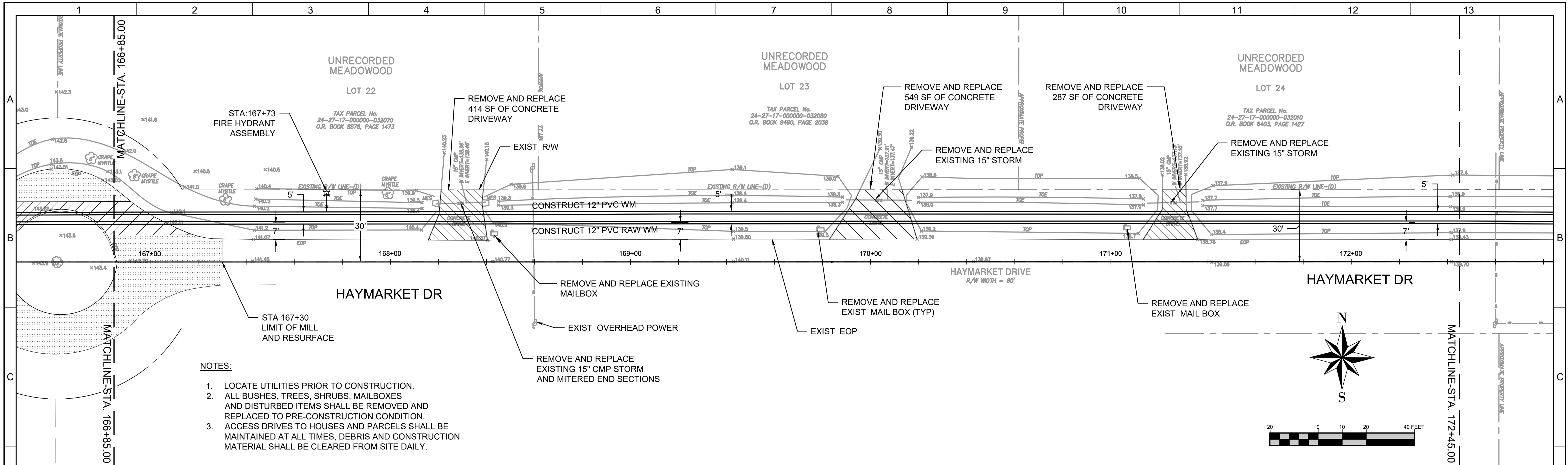
POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
PLAN AND PROFILE
HAYMARKET DRIVE - 3

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

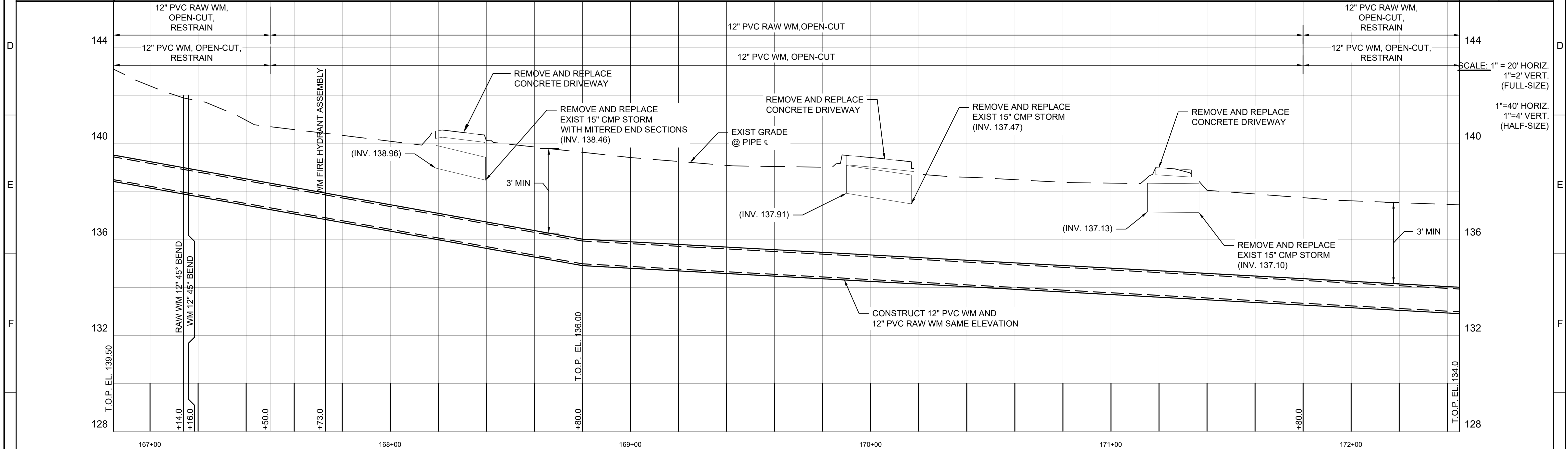
JOB NO.
PCU PN 2014-04-30-0
ORACLE NO. 6857014

DRAWING NO.
C-29

SHEET NO.
C-29 OF C-46



- NOTES:**
1. LOCATE UTILITIES PRIOR TO CONSTRUCTION.
 2. ALL BUSHES, TREES, SHRUBS, MAILBOXES AND DISTURBED ITEMS SHALL BE REMOVED AND REPLACED TO PRE-CONSTRUCTION CONDITION.
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REV	DATE	BY	DESCRIPTION
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DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



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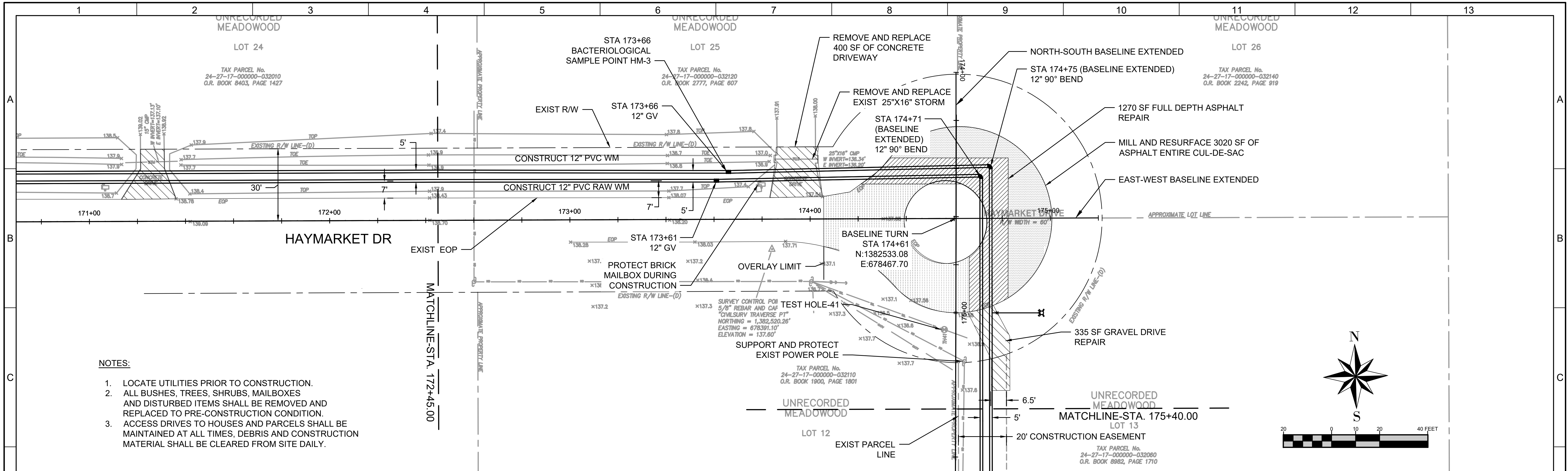
POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
PLAN AND PROFILE
HAYMARKET DRIVE - 4

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
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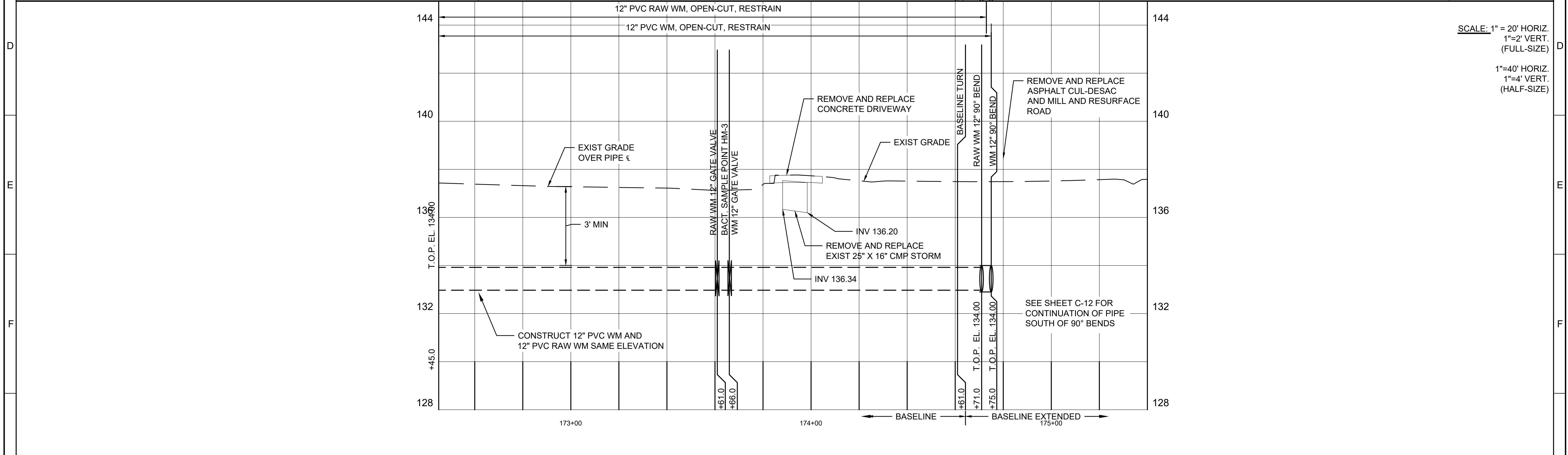
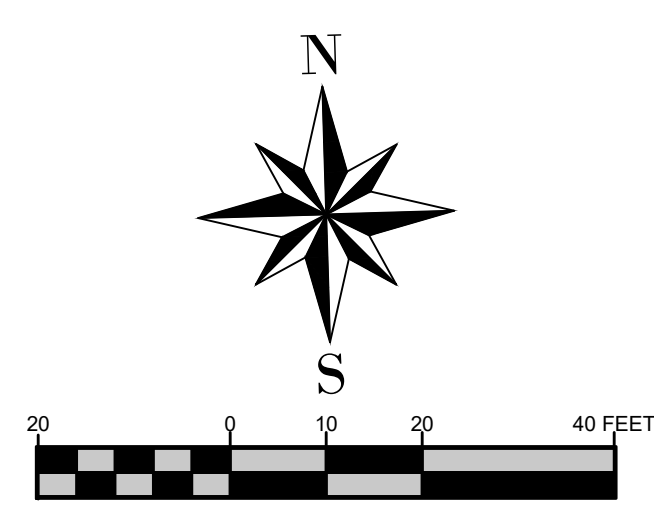
JOB NO.
PCU PN 2014-04-30-0
ORACLE NO. 6857014

DRAWING NO.
C-30

SHEET NO.
C-30 OF C-46



- NOTES:**
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REV	DATE	BY	DESCRIPTION
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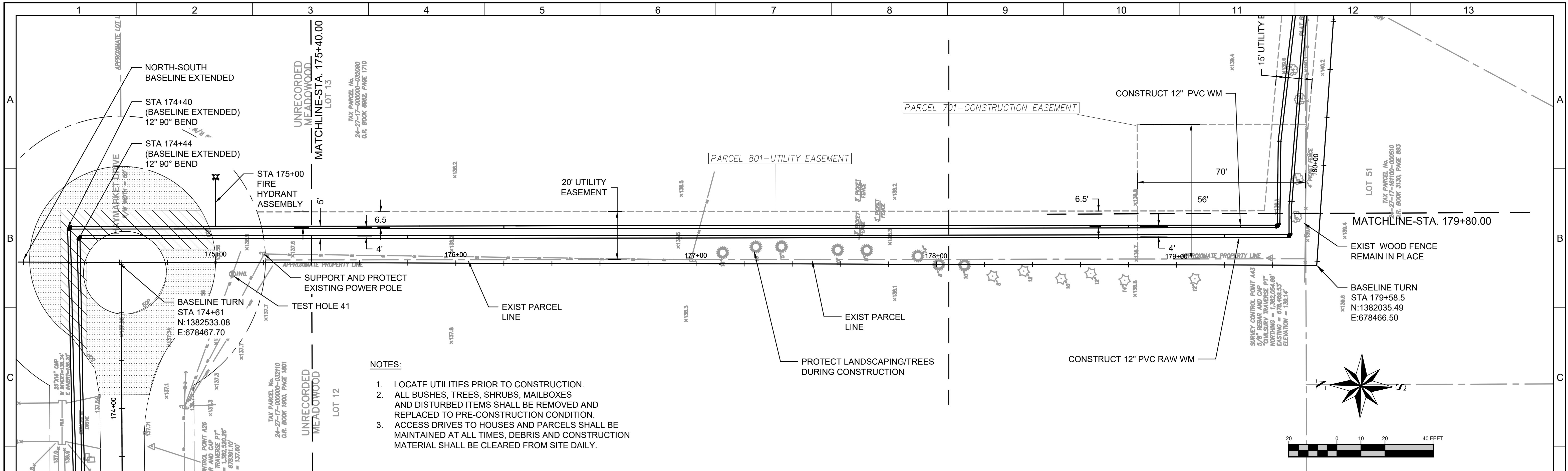
DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



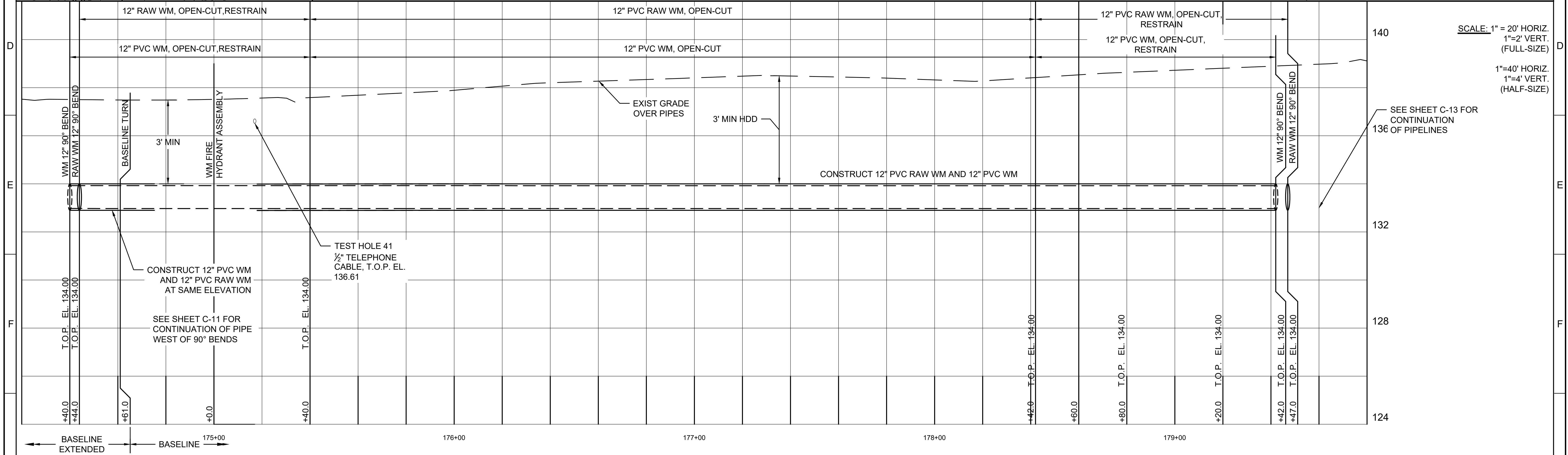
POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
PLAN AND PROFILE
HAYMARKET DRIVE - 5

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1" 40 FEET
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. PCU PN 2014-04-30-0 ORACLE NO. 6857014
DRAWING NO. C-31
SHEET NO. C-31 OF C-46



- NOTES:**
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1" = 2' VERT. (FULL-SIZE)
1" = 40' HORIZ.
1" = 4' VERT. (HALF-SIZE)

REV	DATE	BY	DESCRIPTION

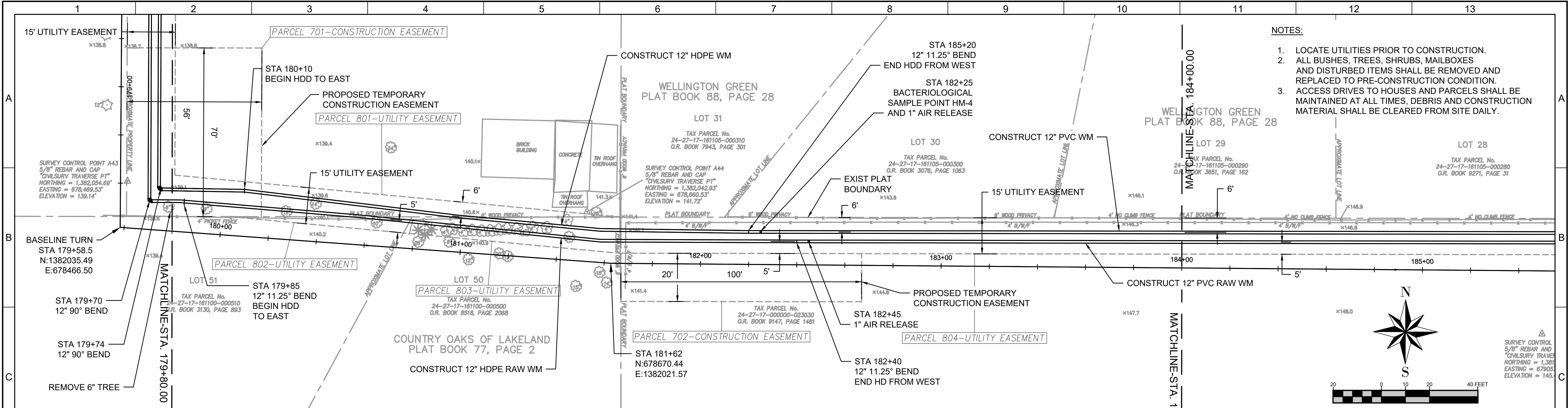
DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
PLAN AND PROFILE
HAYMARKET DRIVE - 6

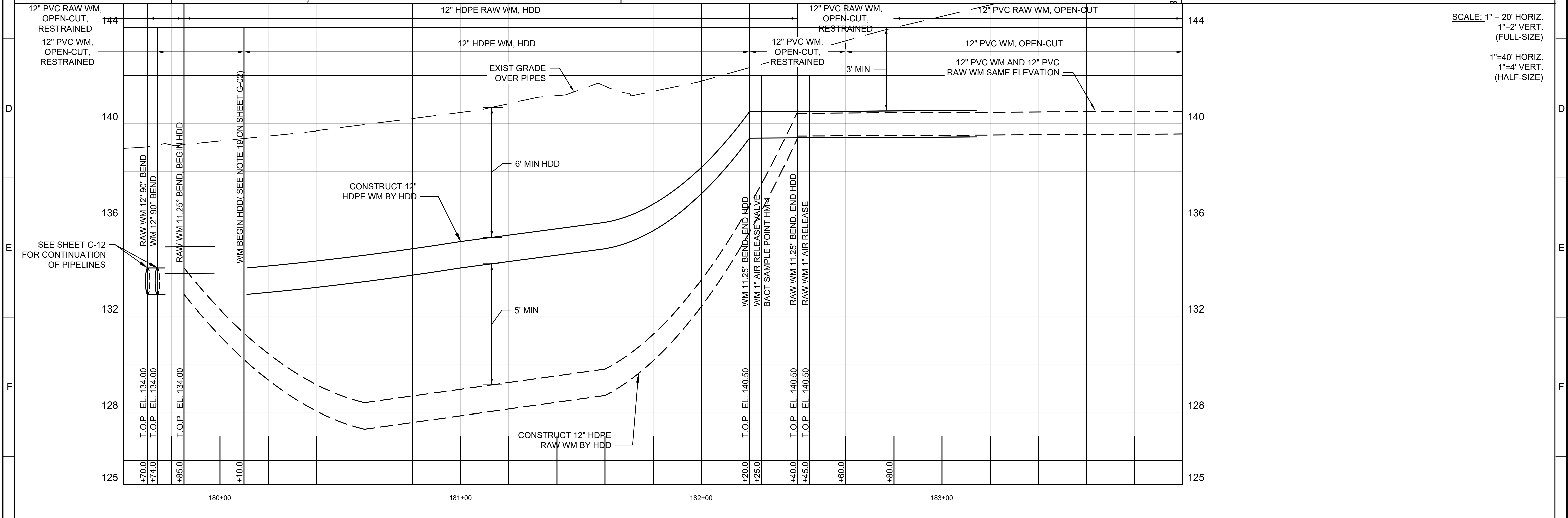
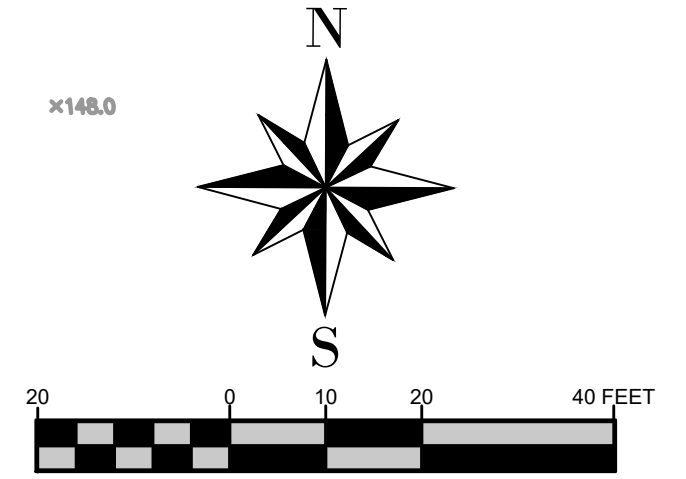
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
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JOB NO.
PCU PN 2014-04-30-0
ORACLE NO. 6857014
DRAWING NO.
C-32
SHEET NO.
C-32 OF C-46

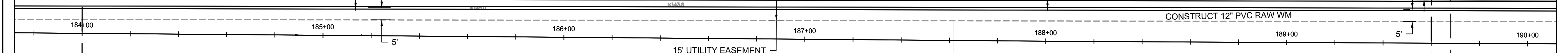
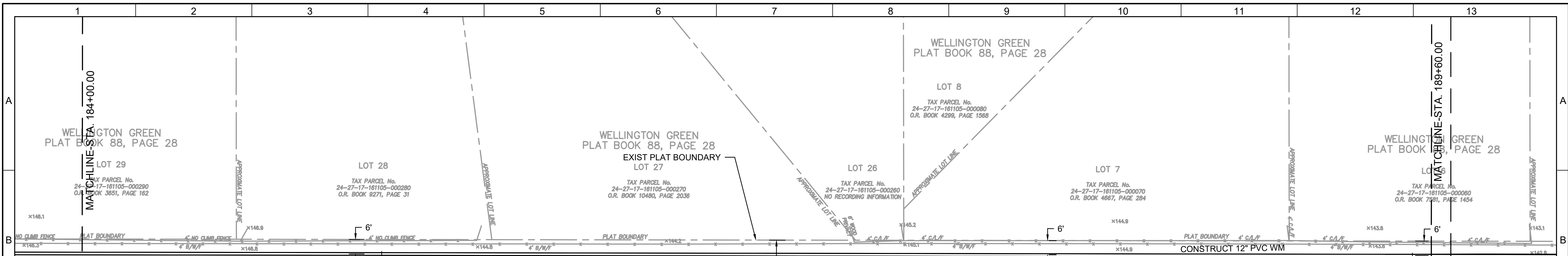


NOTES:

- LOCATE UTILITIES PRIOR TO CONSTRUCTION.
- ALL BUSHES, TREES, SHRUBS, MAILBOXES AND DISTURBED ITEMS SHALL BE REMOVED AND REPLACED TO PRE-CONSTRUCTION CONDITION.
- ACCESS DRIVES TO HOUSES AND PARCELS SHALL BE MAINTAINED AT ALL TIMES, DEBRIS AND CONSTRUCTION MATERIAL SHALL BE CLEARED FROM SITE DAILY.




<table border="1"> <tr> <td>DESIGNED</td> <td>M.O.</td> </tr> <tr> <td>DRAWN</td> <td>C.M.</td> </tr> <tr> <td>CHECKED</td> <td>D.W.</td> </tr> <tr> <td>DATE</td> <td>JUNE 2020</td> </tr> </table>				DESIGNED	M.O.	DRAWN	C.M.	CHECKED	D.W.	DATE	JUNE 2020					<p>POLK COUNTY UTILITIES GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS PLAN AND PROFILE HAYMARKET DRIVE - 7</p>		<p>VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 10 20 40 FEET 1"</p>		<p>JOB NO. PCU PN 2014-04-30-0 ORACLE NO. 6857014 DRAWING NO. C-33 SHEET NO. C-33 OF C-46</p>	
DESIGNED	M.O.																				
DRAWN	C.M.																				
CHECKED	D.W.																				
DATE	JUNE 2020																				
REV	DATE	BY	DESCRIPTION					<p>POLK COUNTY UTILITIES GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS PLAN AND PROFILE HAYMARKET DRIVE - 7</p>		<p>VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 10 20 40 FEET 1"</p>		<p>JOB NO. PCU PN 2014-04-30-0 ORACLE NO. 6857014 DRAWING NO. C-33 SHEET NO. C-33 OF C-46</p>									

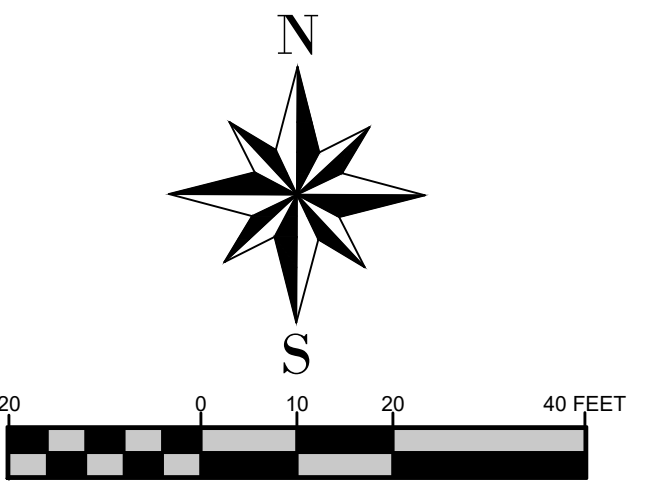


NOTES:

1. LOCATE UTILITIES PRIOR TO CONSTRUCTION.
2. ALL BUSHES, TREES, SHRUBS, MAILBOXES AND DISTURBED ITEMS SHALL BE REMOVED AND REPLACED TO PRE-CONSTRUCTION CONDITION.
3. ACCESS DRIVES TO HOUSES AND PARCELS SHALL BE MAINTAINED AT ALL TIMES, DEBRIS AND CONSTRUCTION MATERIAL SHALL BE CLEARED FROM SITE DAILY.


 SURVEY CONTROL POINT A45
 5/8" REBAR AND CAP
 CIVILSURV TRAVERSE PT
 NORTHING = 1,381,894.16'
 EASTING = 679,057.52'
 ELEVATION = 145.45'

PARCEL 804-UTILITY EASEMENT



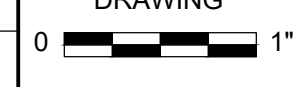
SCALE: 1" = 20' HORIZ.
 1" = 2' VERT. (FULL-SIZE)
 1" = 40' HORIZ.
 1" = 4' VERT. (HALF-SIZE)

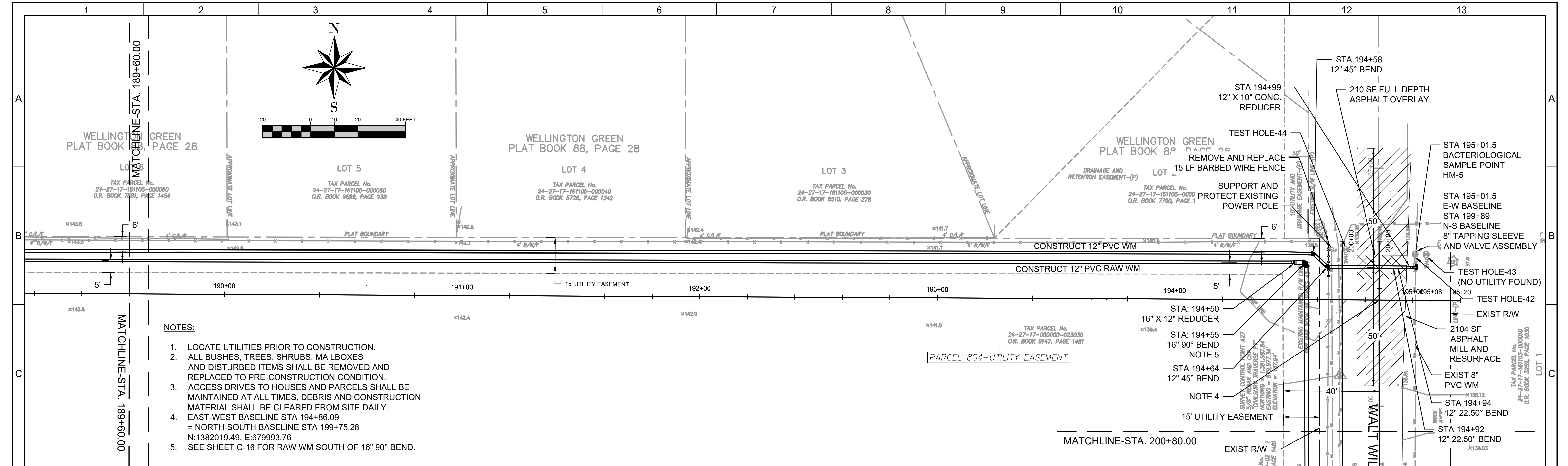
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DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	

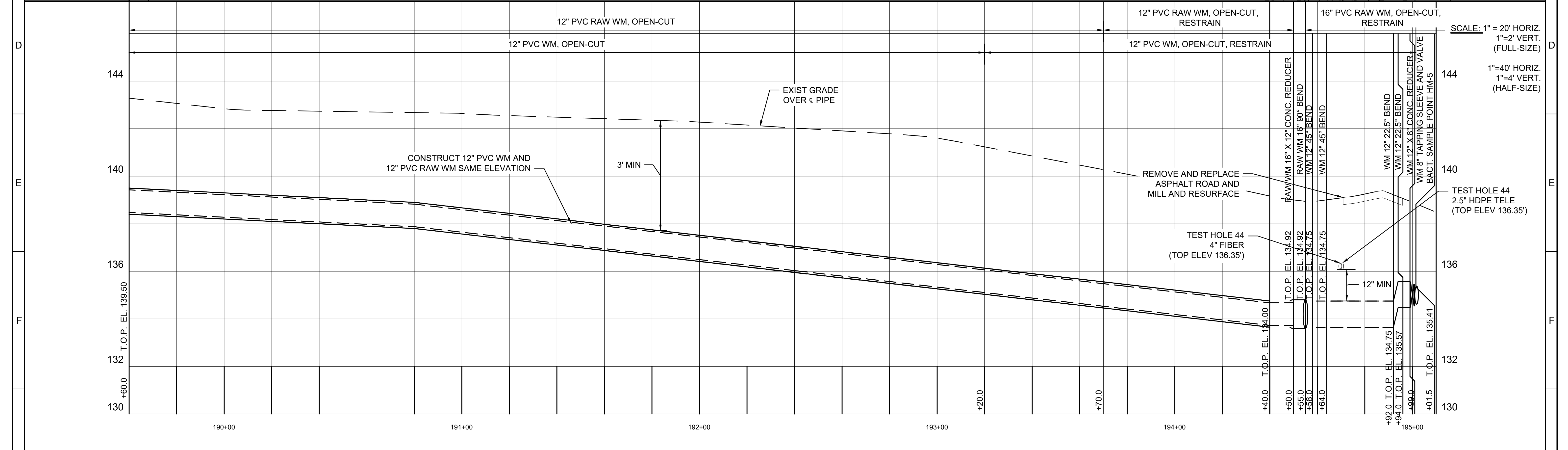


POLK COUNTY UTILITIES
 GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
 PLAN AND PROFILE
 HAYMARKET DRIVE - 8

VERIFY SCALES
 BAR IS ONE INCH
 ON ORIGINAL
 DRAWING

 1"
 IF NOT ONE INCH ON THIS
 SHEET, ADJUST SCALES
 ACCORDINGLY
 JOB NO.
 PCU PN 2014-04-30-0
 ORACLE NO. 6857014
 DRAWING NO.
 C-34
 SHEET NO.
 C-34 OF C-46



- NOTES:**
1. LOCATE UTILITIES PRIOR TO CONSTRUCTION.
 2. ALL BUSHES, TREES, SHRUBS, MAILBOXES AND DISTURBED ITEMS SHALL BE REMOVED AND REPLACED TO PRE-CONSTRUCTION CONDITION.
 3. ACCESS DRIVES TO HOUSES AND PARCELS SHALL BE MAINTAINED AT ALL TIMES, DEBRIS AND CONSTRUCTION MATERIAL SHALL BE CLEARED FROM SITE DAILY.
 4. EAST-WEST BASELINE STA 194+86.09
= NORTH-SOUTH BASELINE STA 199+75.28
N:1382019.49, E:679993.76
 5. SEE SHEET C-16 FOR RAW WM SOUTH OF 16" 90° BEND.



REV	DATE	BY	DESCRIPTION
1			
2			

DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



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PH. (863) 559-2471

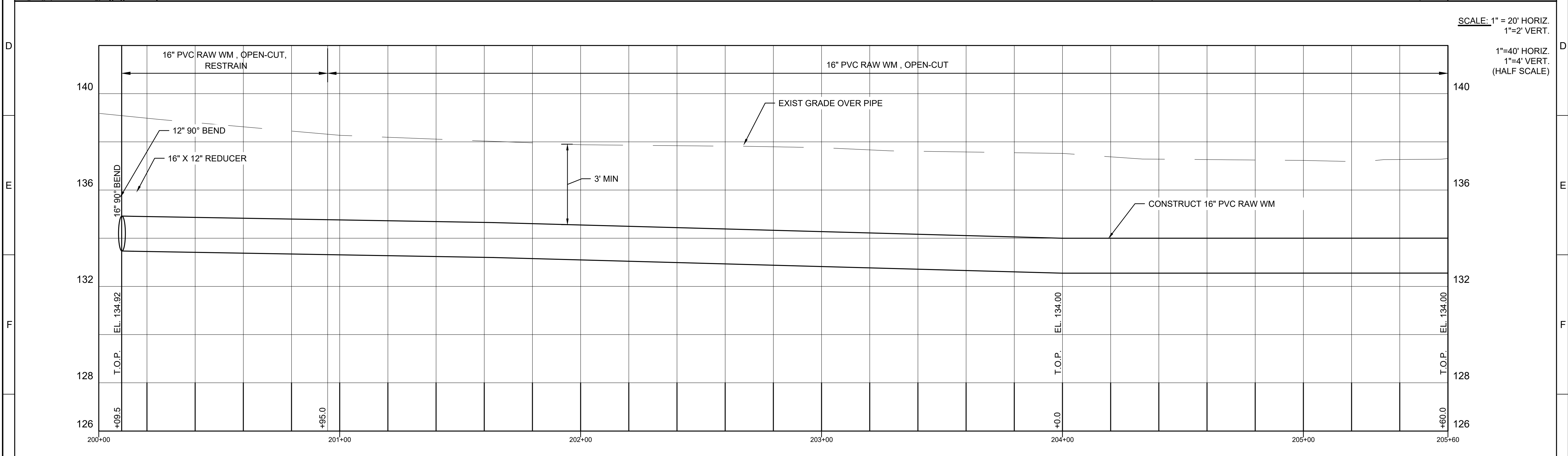
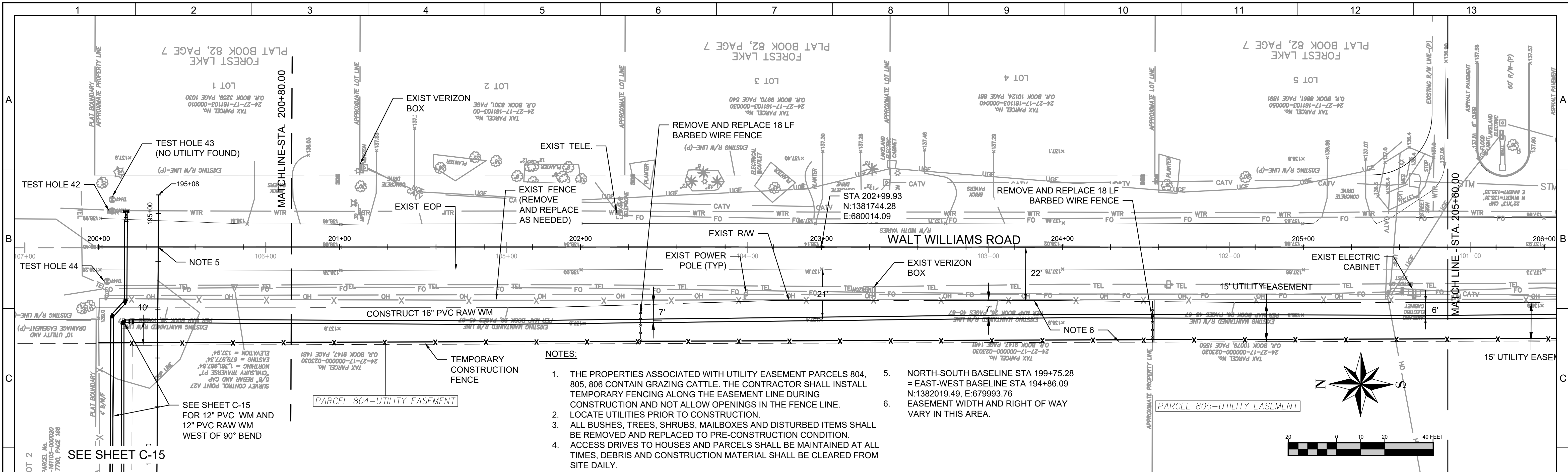
POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
PLAN AND PROFILE
HAYMARKET DRIVE - 9

VERIFY SCALES
BAR IS ONE INCH
ON ORIGINAL
DRAWING
0 1"
IF NOT ONE INCH ON THIS
SHEET, ADJUST SCALES
ACCORDINGLY

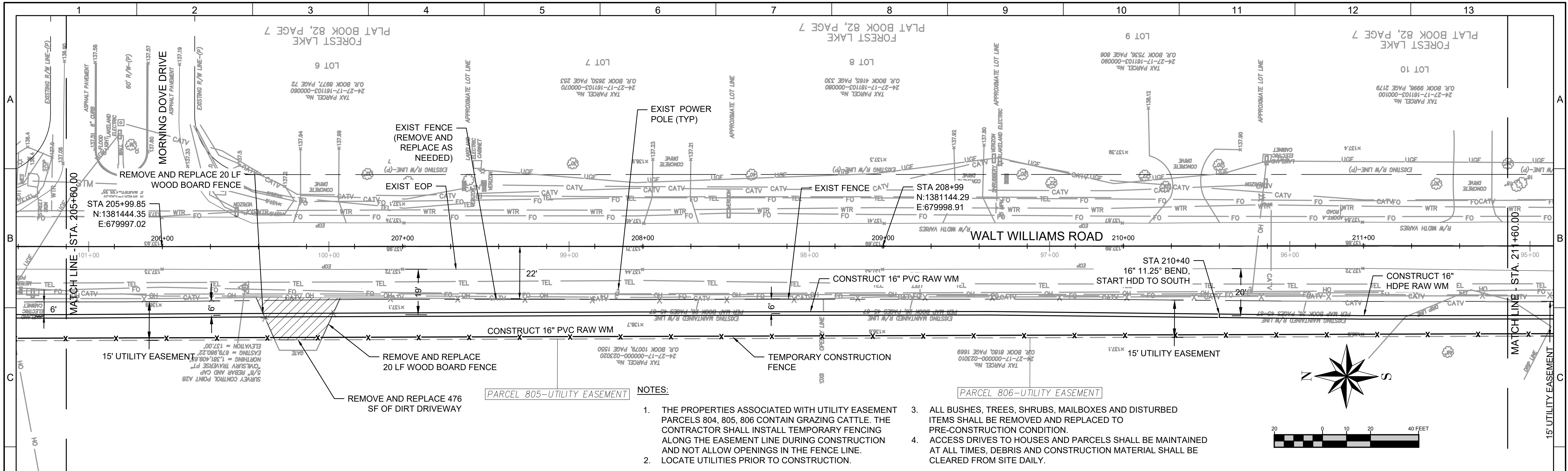
JOB NO.
PCU PN 2014-04-30-0
ORACLE NO. 6857014

DRAWING NO.
C-35

SHEET NO.
C-35 OF C-46

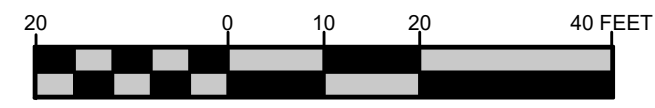
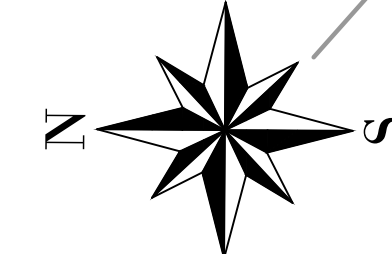


DESIGNED M.O.						POLK COUNTY UTILITIES GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS PLAN AND PROFILE WALT WILLIAMS ROAD - 1	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 	JOB NO. PCU PN 2014-04-30-0 ORACLE NO. 6857014 DRAWING NO. C-36 SHEET NO. C-36 OF C-46
DRAWN C.M.								
CHECKED D.W.								
DATE JUNE 2020								
REV	DATE	BY	DESCRIPTION					
1								

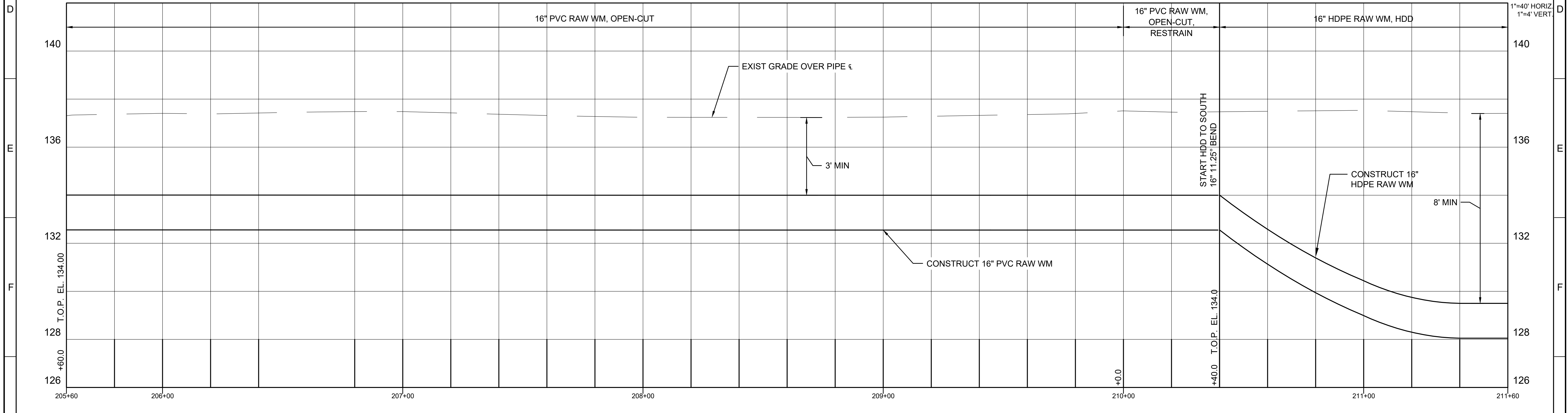


NOTES:

1. THE PROPERTIES ASSOCIATED WITH UTILITY EASEMENT PARCELS 804, 805, 806 CONTAIN GRAZING CATTLE. THE CONTRACTOR SHALL INSTALL TEMPORARY FENCING ALONG THE EASEMENT LINE DURING CONSTRUCTION AND NOT ALLOW OPENINGS IN THE FENCE LINE.
2. LOCATE UTILITIES PRIOR TO CONSTRUCTION.
3. ALL BUSHES, TREES, SHRUBS, MAILBOXES AND DISTURBED ITEMS SHALL BE REMOVED AND REPLACED TO PRE-CONSTRUCTION CONDITION.
4. ACCESS DRIVES TO HOUSES AND PARCELS SHALL BE MAINTAINED AT ALL TIMES. DEBRIS AND CONSTRUCTION MATERIAL SHALL BE CLEARED FROM SITE DAILY.



SCALE:
1" = 20' HORIZ.
1" = 2' VERT.



REV	DATE	BY	DESCRIPTION
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DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	

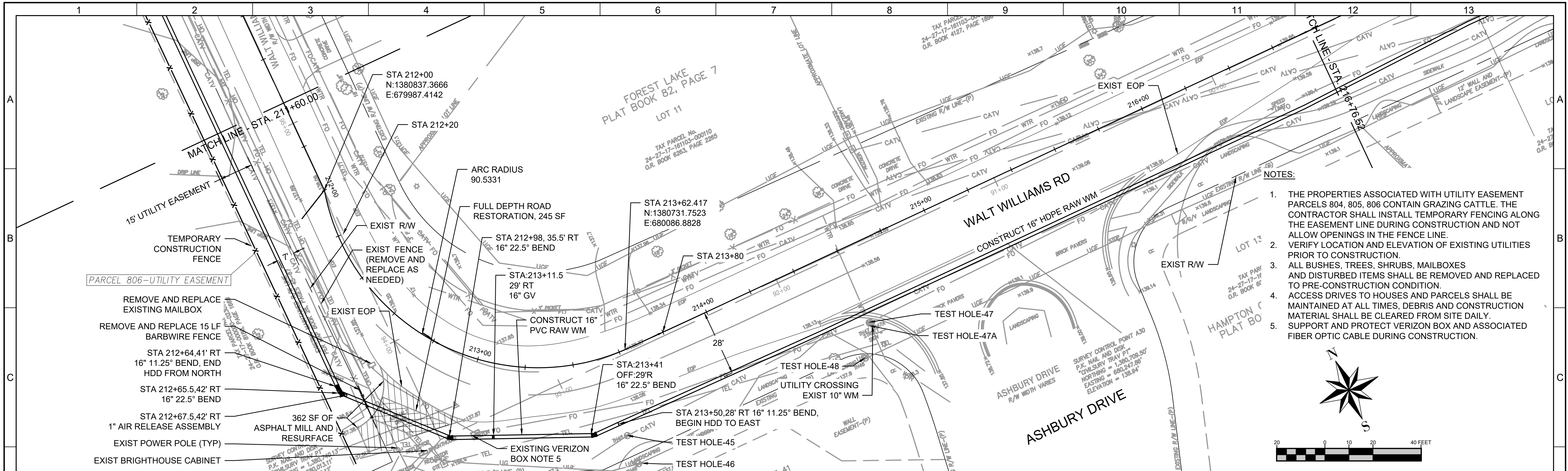


POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
 PLAN AND PROFILE
WALT WILLIAMS ROAD - 2

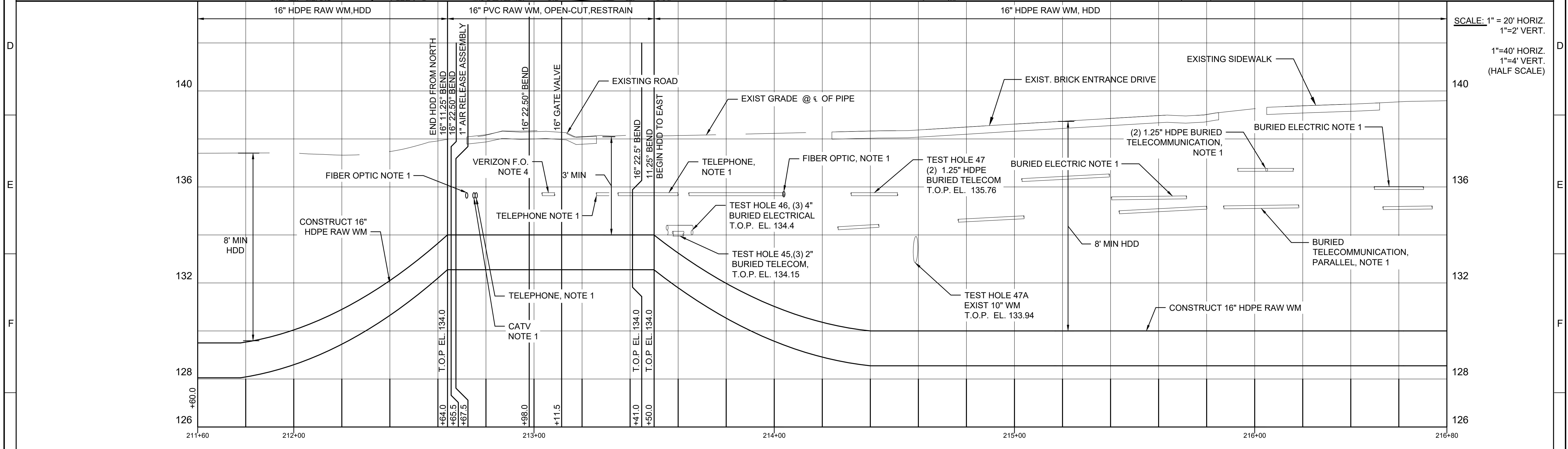
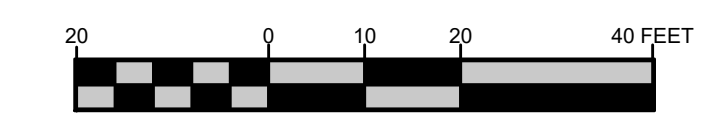
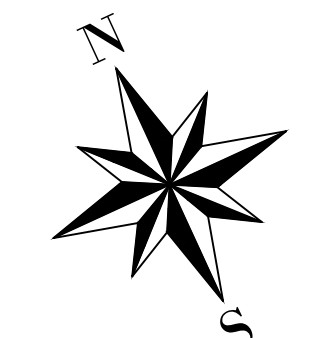
VERIFY SCALES
 BAR IS ONE INCH
 ON ORIGINAL
 DRAWING

 IF NOT ONE INCH ON THIS
 SHEET, ADJUST SCALES
 ACCORDINGLY

JOB NO.
 PCU PN 2014-04-30-0
 ORACLE NO. 6857014
 DRAWING NO.
C-37
 SHEET NO.
 C-37 OF C-46



- NOTES:**
1. THE PROPERTIES ASSOCIATED WITH UTILITY EASEMENT PARCELS 804, 805, 806 CONTAIN GRAZING CATTLE. THE CONTRACTOR SHALL INSTALL TEMPORARY FENCING ALONG THE EASEMENT LINE DURING CONSTRUCTION AND NOT ALLOW OPENINGS IN THE FENCE LINE.
 2. VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 3. ALL BUSHES, TREES, SHRUBS, MAILBOXES AND DISTURBED ITEMS SHALL BE REMOVED AND REPLACED TO PRE-CONSTRUCTION CONDITION.
 4. ACCESS DRIVES TO HOUSES AND PARCELS SHALL BE MAINTAINED AT ALL TIMES, DEBRIS AND CONSTRUCTION MATERIAL SHALL BE CLEARED FROM SITE DAILY.
 5. SUPPORT AND PROTECT VERIZON BOX AND ASSOCIATED FIBER OPTIC CABLE DURING CONSTRUCTION.



SCALE: 1" = 20' HORIZ.
1" = 2' VERT.
1" = 40' HORIZ.
1" = 4' VERT.
(HALF SCALE)

REV	DATE	BY	DESCRIPTION
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DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



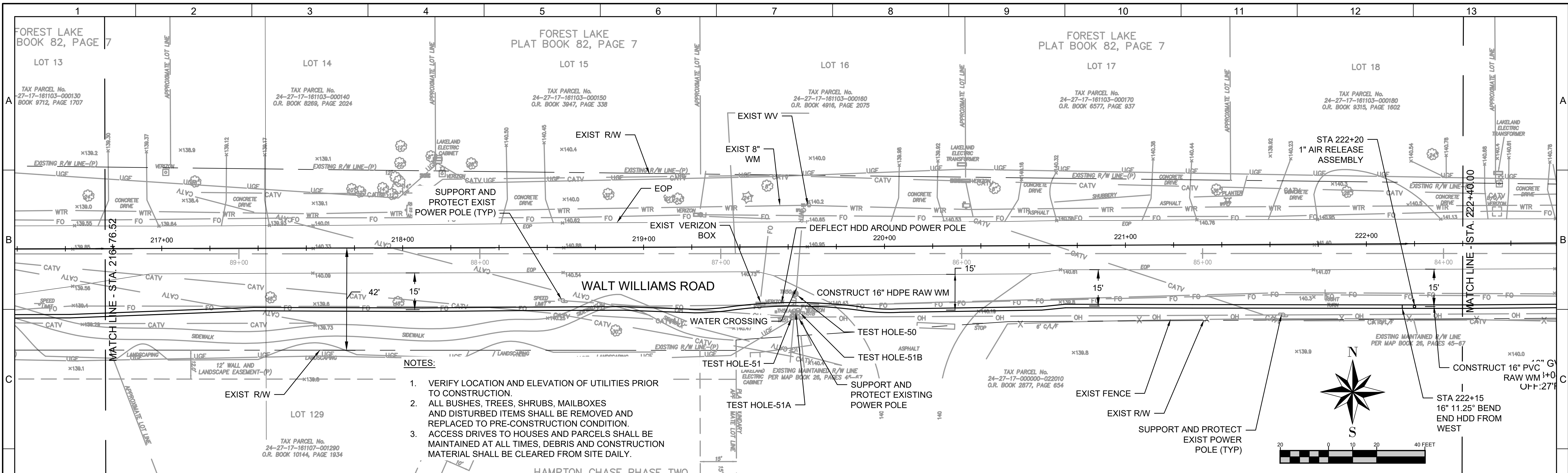
POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
PLAN AND PROFILE
WALT WILLIAMS ROAD - 3

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1" 40 FEET
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

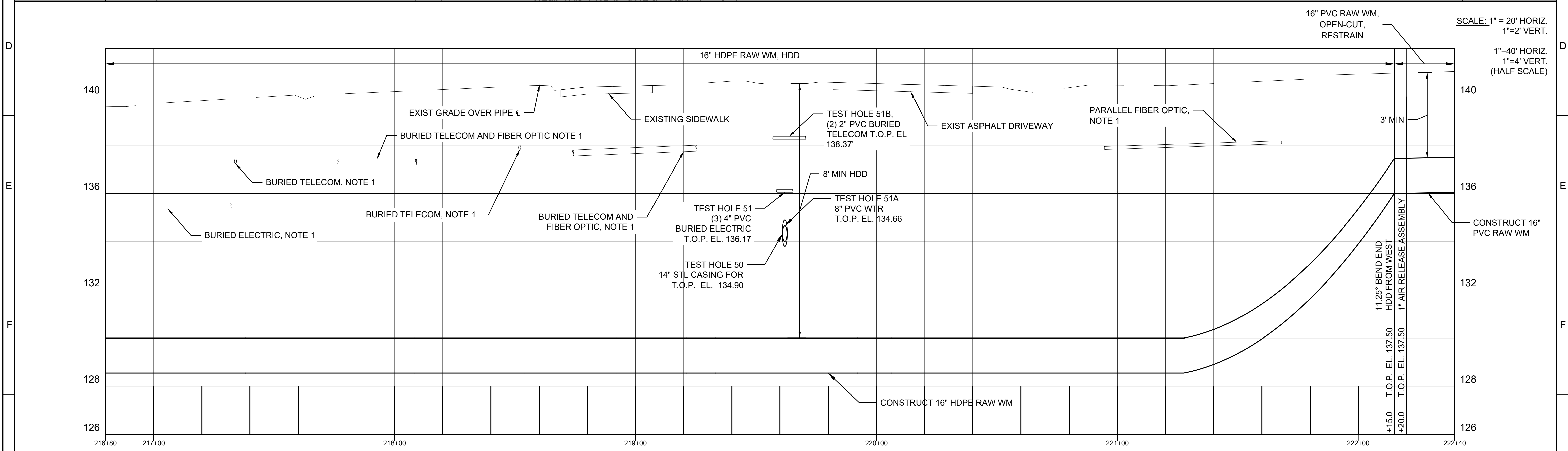
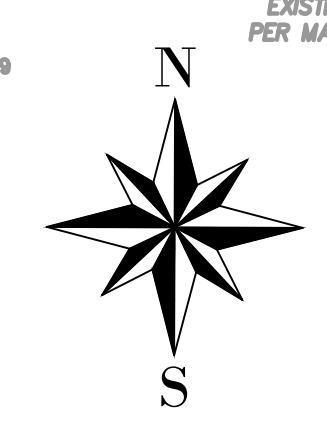
JOB NO.
PCU PN 2014-04-30-0
ORACLE NO. 6857014

DRAWING NO.
C-38

SHEET NO.
C-38 OF C-46



- NOTES:**
1. VERIFY LOCATION AND ELEVATION OF UTILITIES PRIOR TO CONSTRUCTION.
 2. ALL BUSHES, TREES, SHRUBS, MAILBOXES AND DISTURBED ITEMS SHALL BE REMOVED AND REPLACED TO PRE-CONSTRUCTION CONDITION. ACCESS DRIVES TO HOUSES AND PARCELS SHALL BE MAINTAINED AT ALL TIMES. DEBRIS AND CONSTRUCTION MATERIAL SHALL BE CLEARED FROM SITE DAILY.
 - 3.



REV	DATE	BY	DESCRIPTION
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DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	

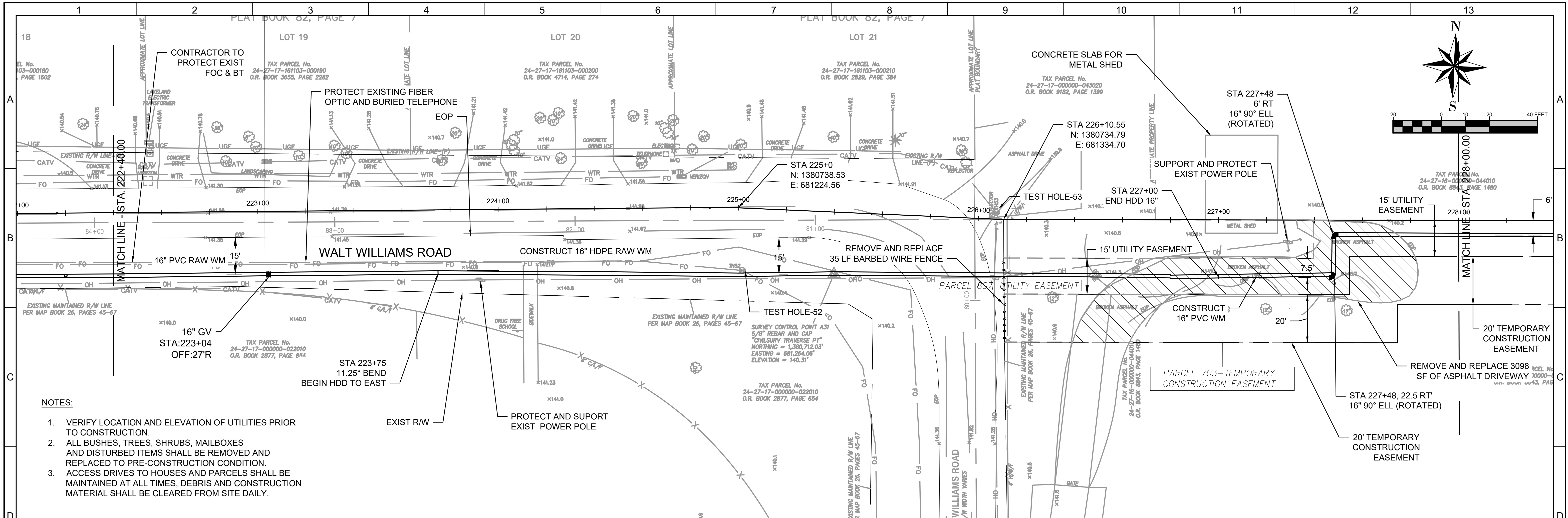
POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
 PLAN AND PROFILE
WALT WILLIAMS ROAD - 4

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1" 40'

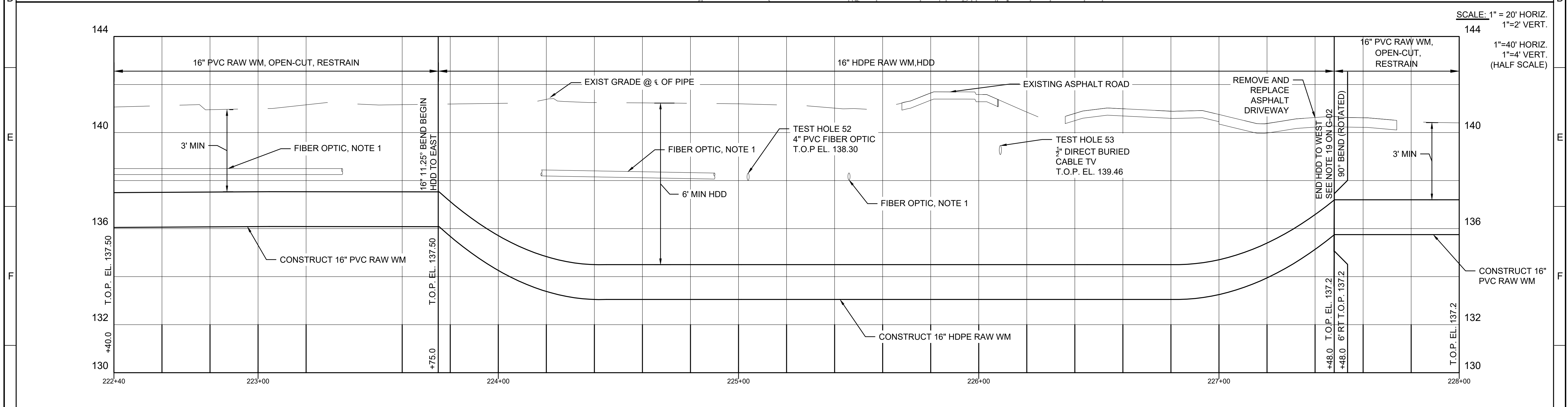
JOB NO.
 PCU PN 2014-04-30-0
 ORACLE NO. 6857014

DRAWING NO.
C-39

SHEET NO.
 C-39 OF C-46



- NOTES:**
1. VERIFY LOCATION AND ELEVATION OF UTILITIES PRIOR TO CONSTRUCTION.
 2. ALL BUSHES, TREES, SHRUBS, MAILBOXES AND DISTURBED ITEMS SHALL BE REMOVED AND REPLACED TO PRE-CONSTRUCTION CONDITION.
 3. ACCESS DRIVES TO HOUSES AND PARCELS SHALL BE MAINTAINED AT ALL TIMES. DEBRIS AND CONSTRUCTION MATERIAL SHALL BE CLEARED FROM SITE DAILY.



REV	DATE	BY	DESCRIPTION
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DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	

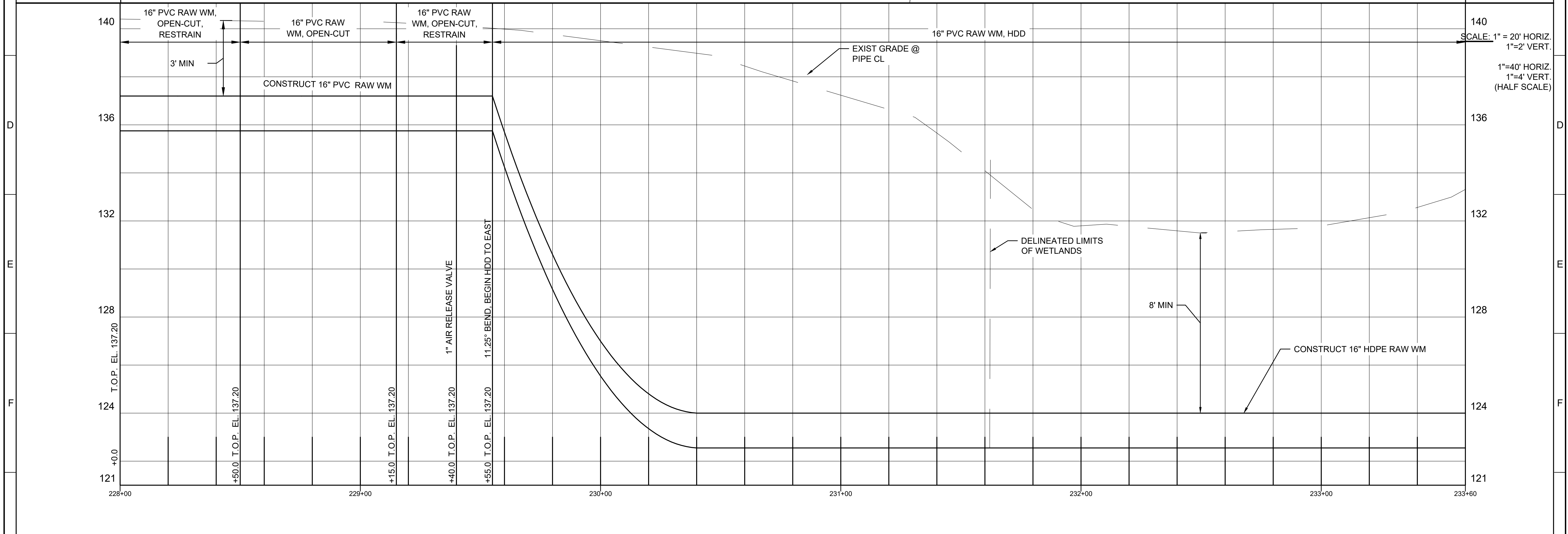
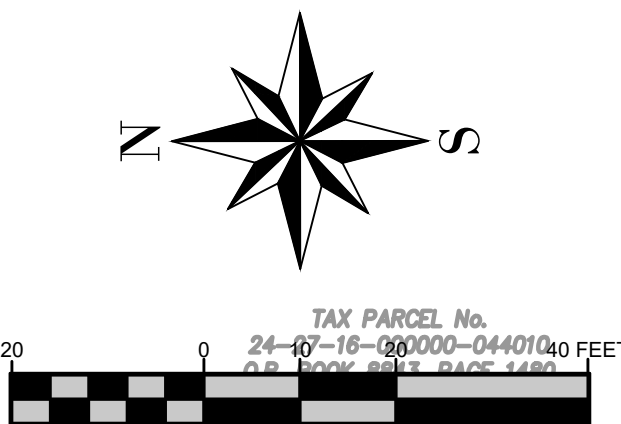
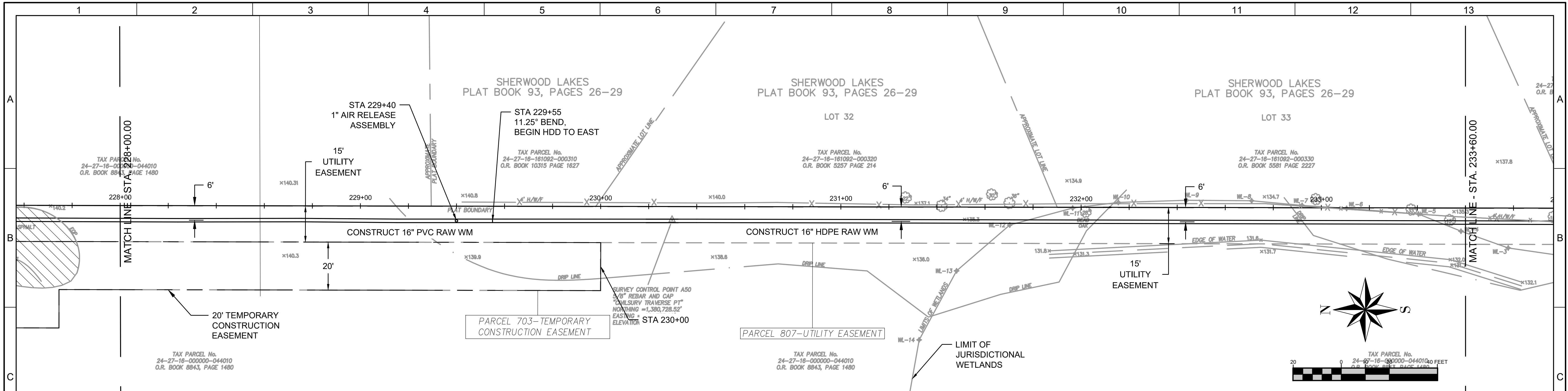


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POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
 PLAN AND PROFILE
WALT WILLIAMS ROAD - 5

VERIFY SCALES
 BAR IS ONE INCH
 ON ORIGINAL
 DRAWING
 0 1"

JOB NO.
 PCU PN 2014-04-30-0
 ORACLE NO. 6857014
 DRAWING NO.
C-40
 SHEET NO.
 C-40 OF C-46



REV	DATE	BY	DESCRIPTION
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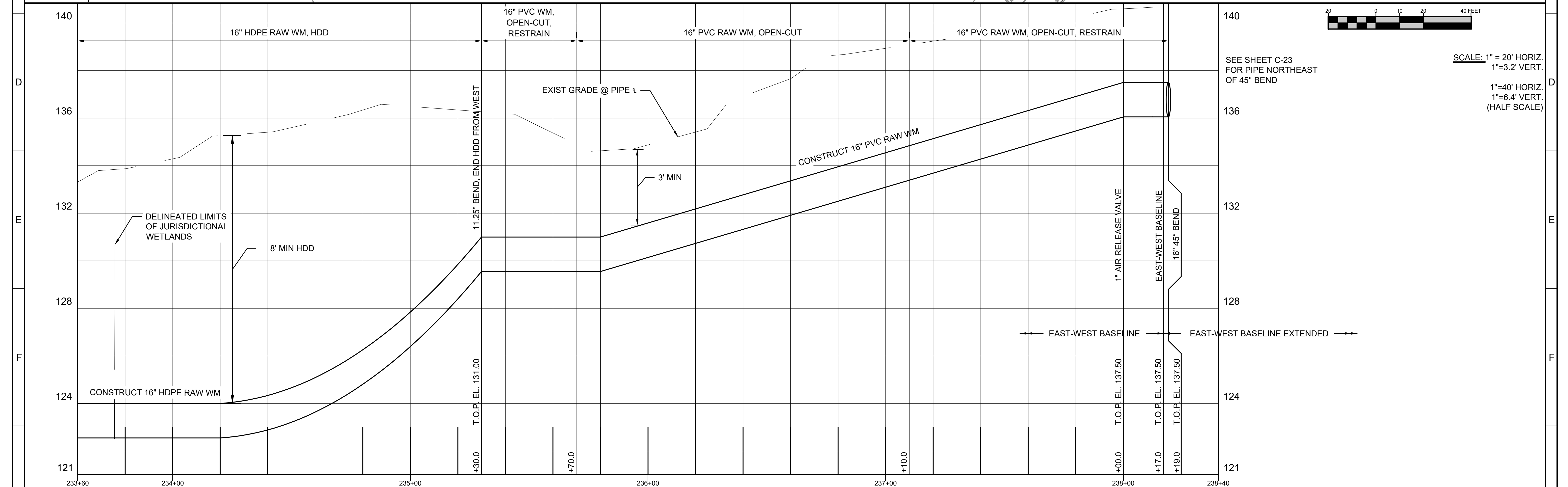
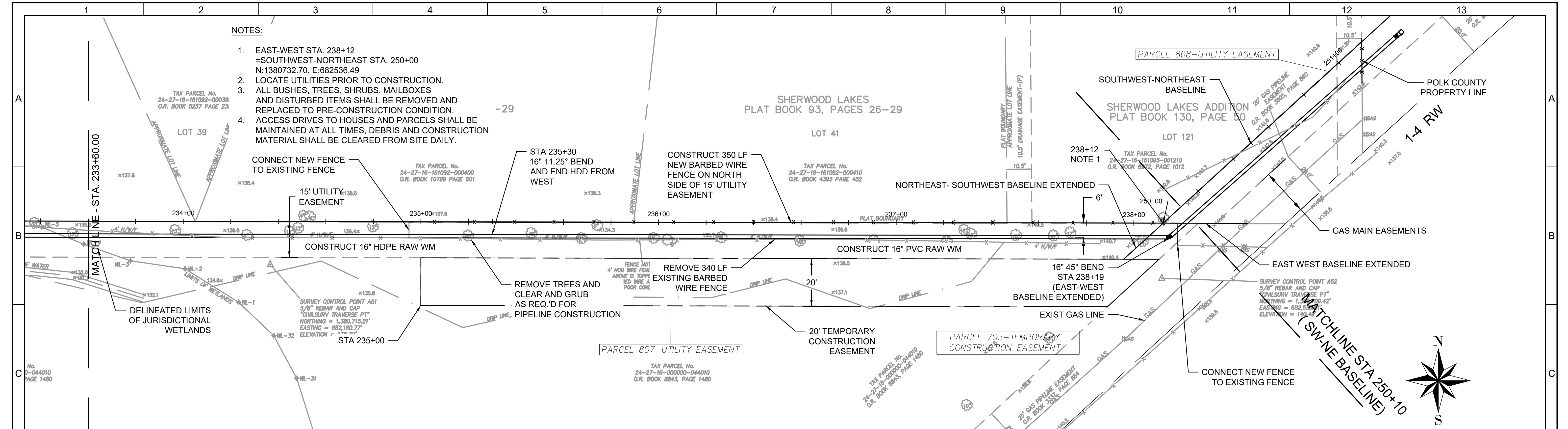
DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
PLAN AND PROFILE
WALT WILLIAMS ROAD - 6

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
PCI PN 2014-04-30-0
ORACLE NO. 6857014
DRAWING NO.
C-41
SHEET NO.
C-41 OF C-46



REV	DATE	BY	DESCRIPTION
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2			

DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



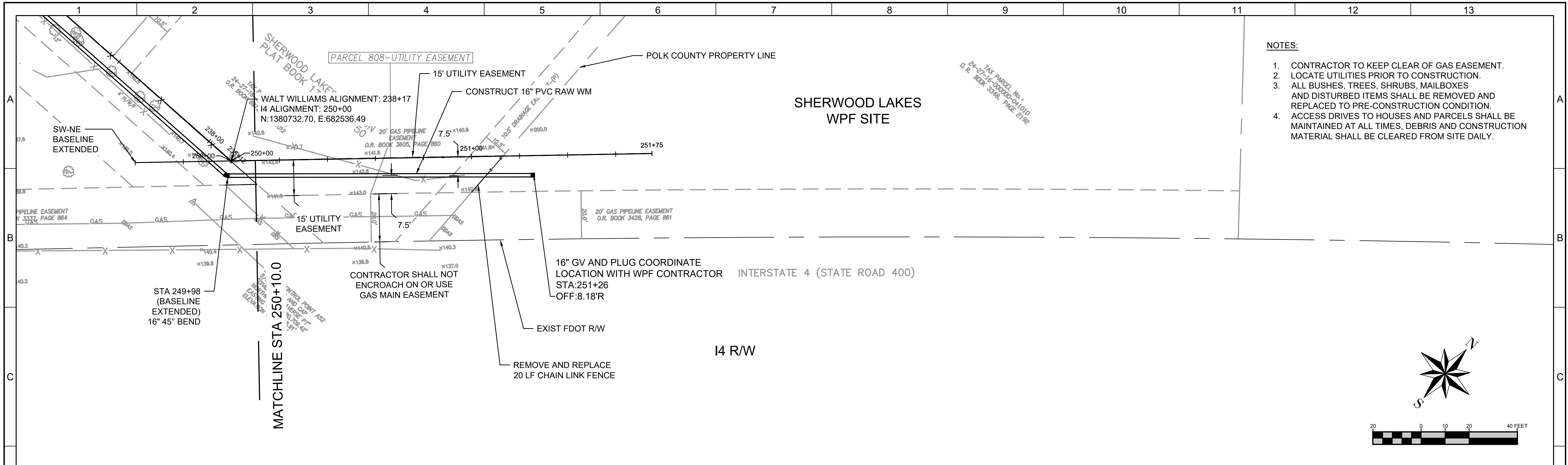
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POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
 PLAN AND PROFILE
WALT WILLIAMS ROAD - 7

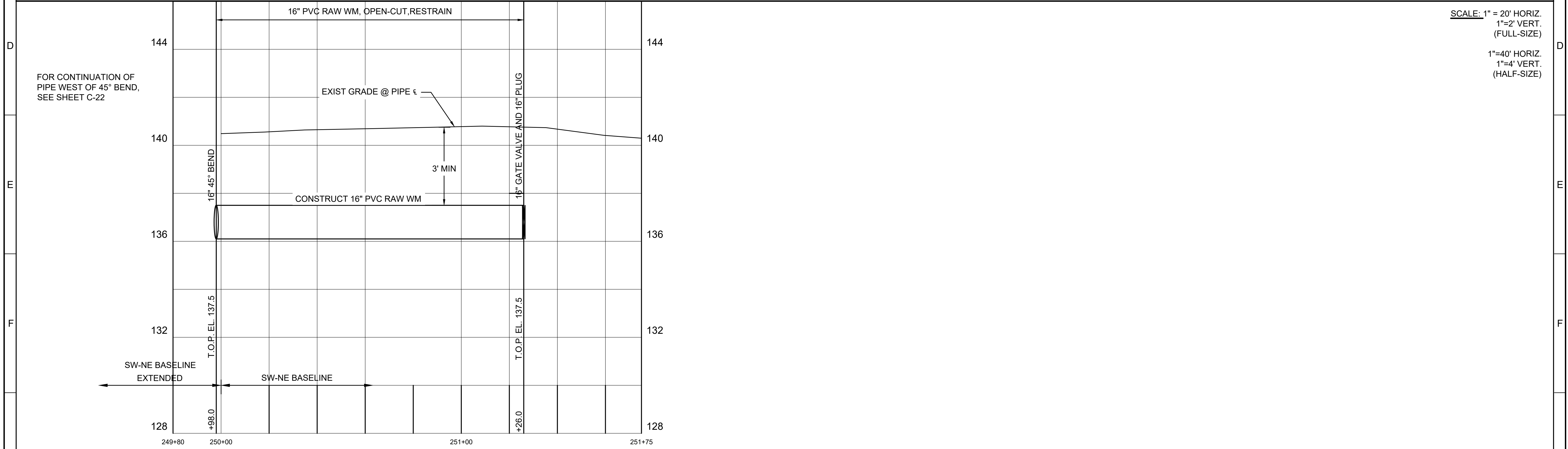
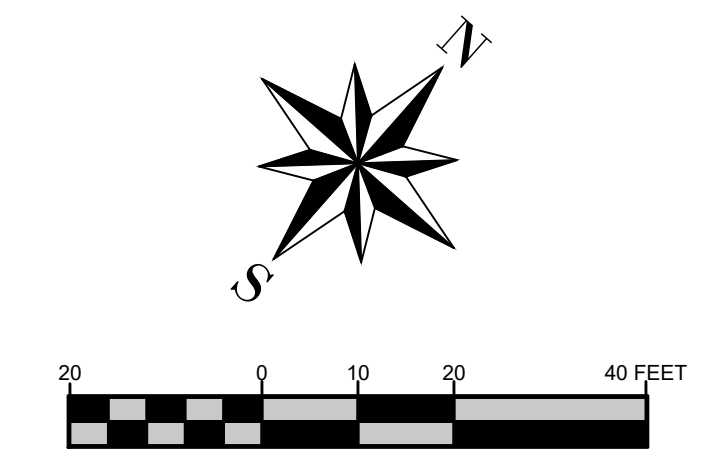
VERIFY SCALES
 BAR IS ONE INCH
 ON ORIGINAL
 DRAWING

 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
 PCU PN 2014-04-30-0
 ORACLE NO. 6857014
 DRAWING NO.
C-42
 SHEET NO.
 C-42 OF C-46



- NOTES:**
1. CONTRACTOR TO KEEP CLEAR OF GAS EASEMENT.
 2. LOCATE UTILITIES PRIOR TO CONSTRUCTION.
 3. ALL BUSHES, TREES, SHRUBS, MAILBOXES AND DISTURBED ITEMS SHALL BE REMOVED AND REPLACED TO PRE-CONSTRUCTION CONDITION.
 4. ACCESS DRIVES TO HOUSES AND PARCELS SHALL BE MAINTAINED AT ALL TIMES, DEBRIS AND CONSTRUCTION MATERIAL SHALL BE CLEARED FROM SITE DAILY.



SCALE: 1" = 20' HORIZ.
 1" = 2' VERT. (FULL-SIZE)
 1" = 40' HORIZ.
 1" = 4' VERT. (HALF-SIZE)

REV	DATE	BY	DESCRIPTION
1			
2			

DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



HYDRO SOLUTIONS CONSULTING LLC
 3616 HARDEN BLVD., #110, LAKELAND, FL 33803
 PH. (863) 559-2471

POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS

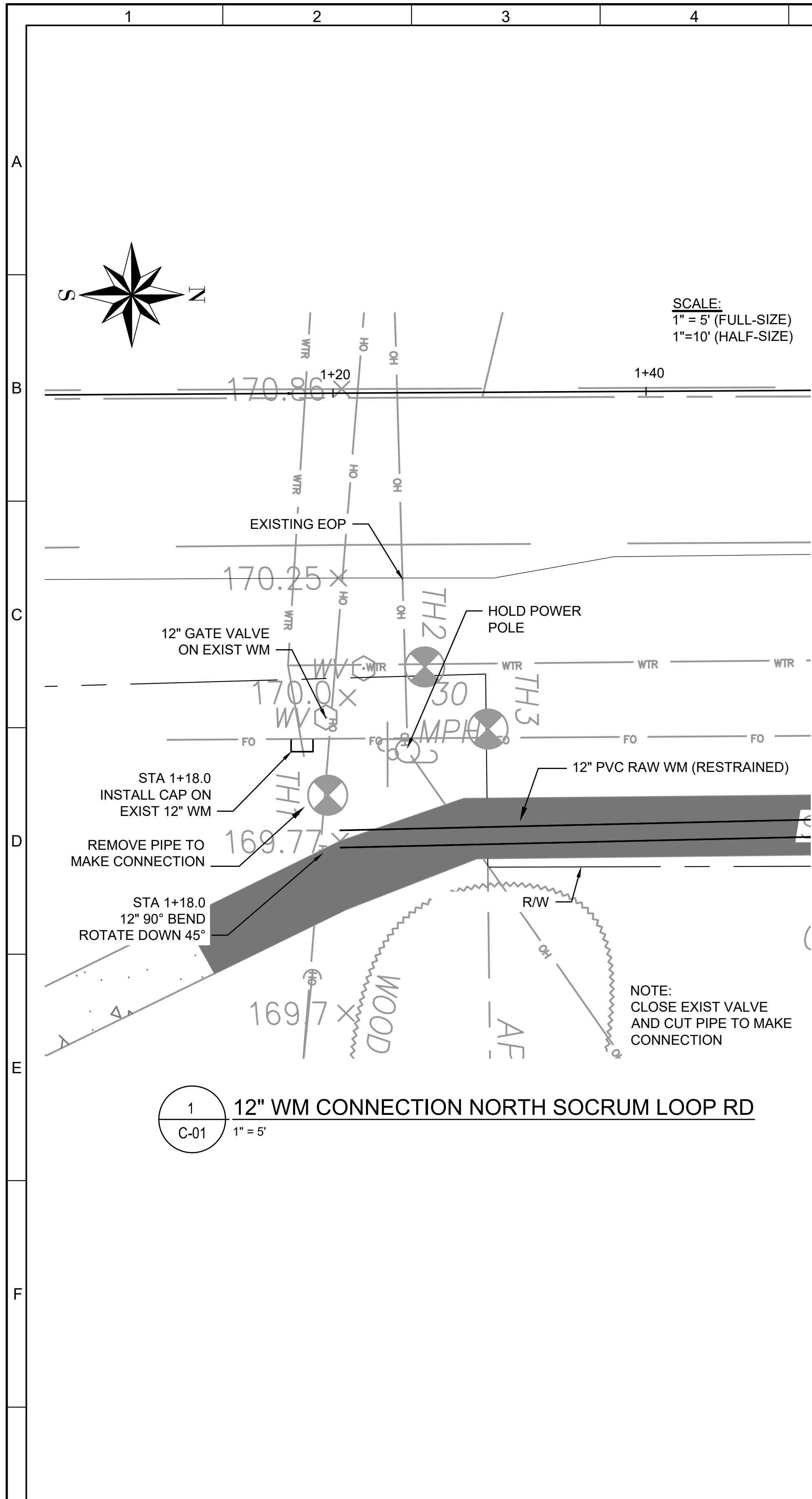
PLAN AND PROFILE
14 EASEMENT

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1" 40 FEET
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

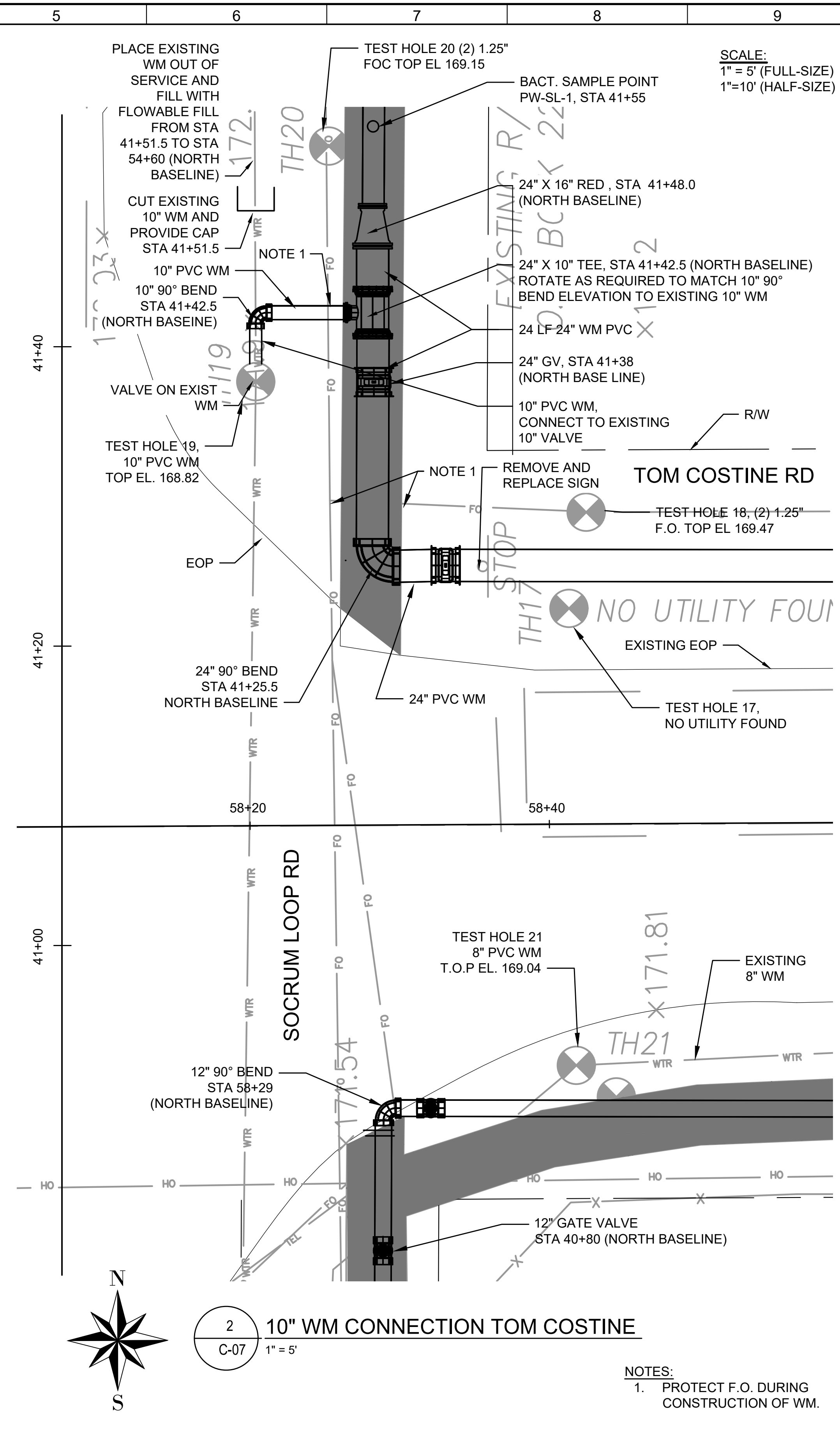
JOB NO.
 PCU PN 2014-04-30-0
 ORACLE NO. 6857014

DRAWING NO.
C-43

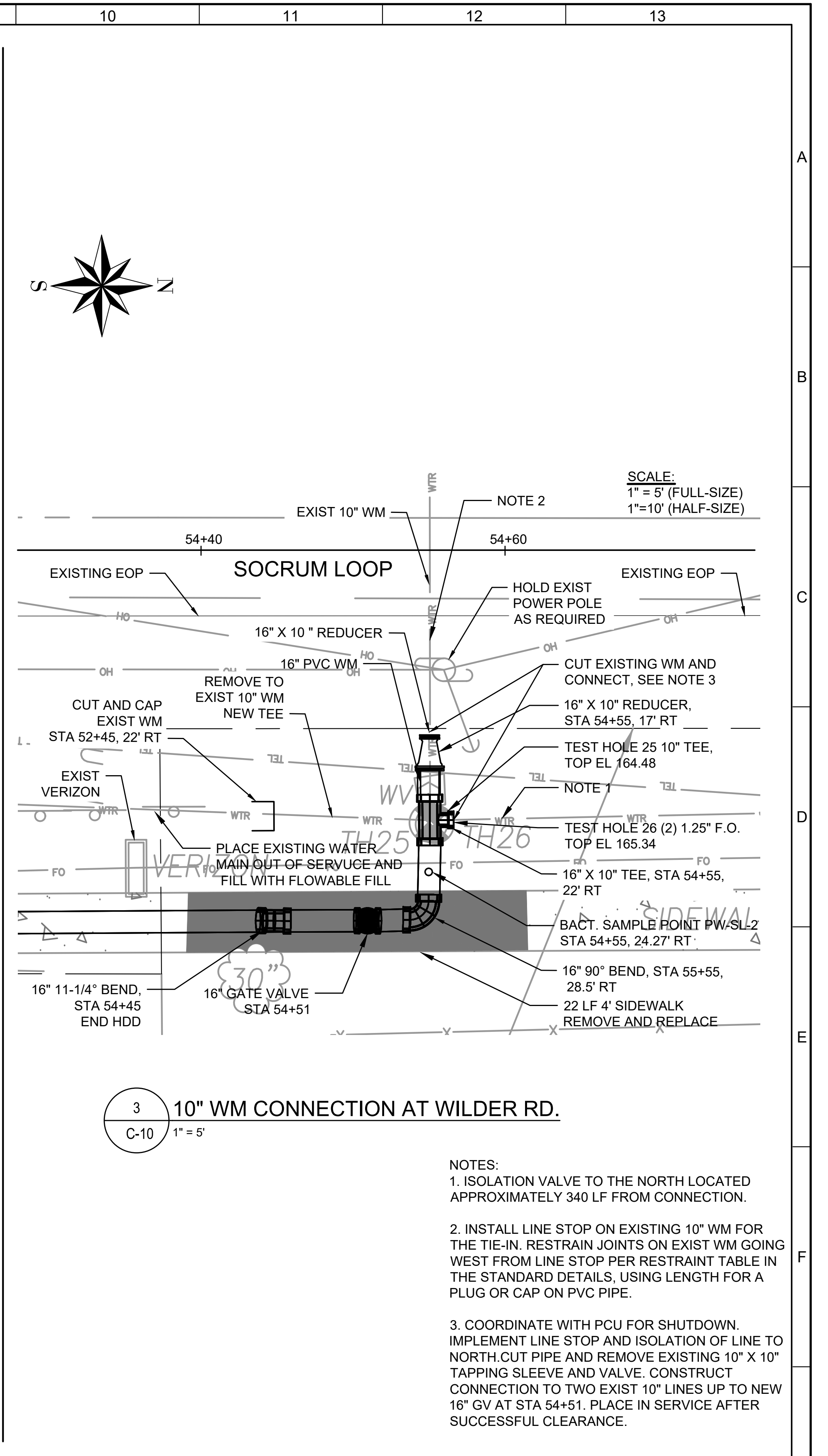
SHEET NO.
 C-43 OF C-46



1 12" WM CONNECTION NORTH SOCRUM LOOP RD
C-01 1" = 5'



2 10" WM CONNECTION TOM COSTINE
C-07 1" = 5'



3 10" WM CONNECTION AT WILDER RD.
C-10 1" = 5'

- NOTES:
- ISOLATION VALVE TO THE NORTH LOCATED APPROXIMATELY 340 LF FROM CONNECTION.
 - INSTALL LINE STOP ON EXISTING 10" WM FOR THE TIE-IN. RESTRAIN JOINTS ON EXIST WM GOING WEST FROM LINE STOP PER RESTRAINT TABLE IN THE STANDARD DETAILS. USING LENGTH FOR A PLUG OR CAP ON PVC PIPE.
 - COORDINATE WITH PCU FOR SHUTDOWN. IMPLEMENT LINE STOP AND ISOLATION OF LINE TO NORTH. CUT PIPE AND REMOVE EXISTING 10" X 10" TAPPING SLEEVE AND VALVE. CONSTRUCT CONNECTION TO TWO EXIST 10" LINES UP TO NEW 16" GV AT STA 54+51. PLACE IN SERVICE AFTER SUCCESSFUL CLEARANCE.

REV	DATE	BY	DESCRIPTION
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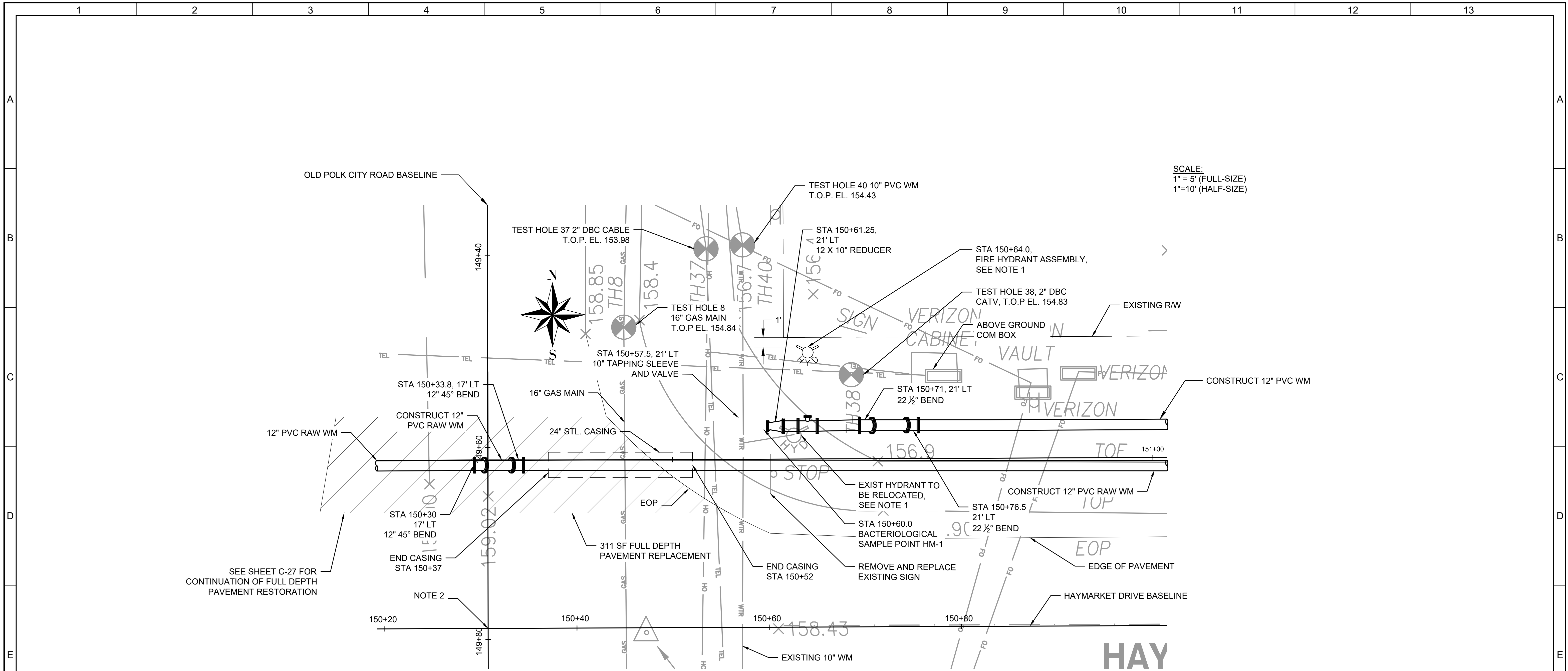
DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



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PH. (863) 559-2471

POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
CIVIL
WATER MAIN CONNECTIONS

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING	JOB NO. PCU PN 2014-04-30-0 ORACLE NO. 6857014
0 1" SCALE BAR	DRAWING NO. C-44
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. C-44 OF C-46



SCALE:
 1" = 5' (FULL-SIZE)
 1" = 10' (HALF-SIZE)

1
 C-27 1" = 5'
 10" WATER MAIN TAPPING SLEEVE AND VALVE HAYMARKET RD.

- NOTES:
1. REUSE EXISTING HYDRANT. CLOSE HYDRANT VALVE ON EXISTING 10" WM AND PROVIDE RESTRAINED PLUG IN EXISTING VALVE. INSTALL EXISTING HYDRANT ON NEW FIRE HYDRANT ASSEMBLY PER FIGURE WA-03 ON SHEET SD-01.
 2. STA 149+78.86 OF OLD POLK CITY ROAD BASELINE= STA 150+30.75 OF HAYMARKET DRIVE BASELINE
 3. PAVEMENT OVERLAY NOT SHOWN ON THIS DETAIL. SEE SHEET C-07 FOR LIMITS OF PAVEMENT OVERLAY.

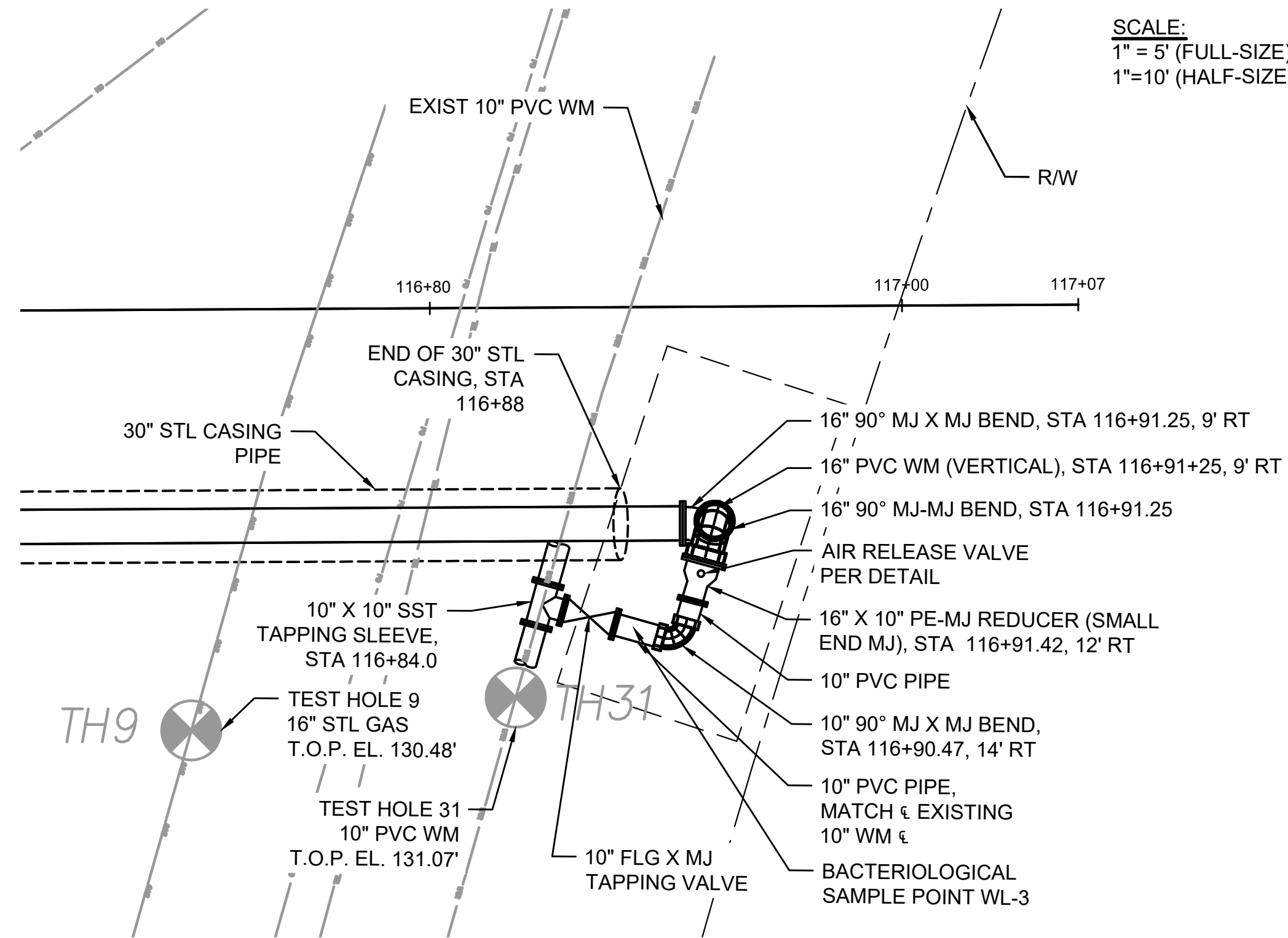
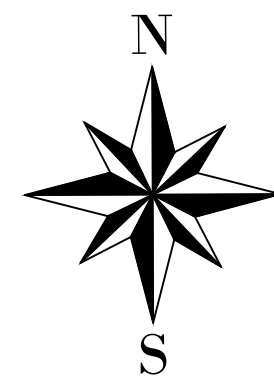
REV	DATE	BY	DESCRIPTION
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DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



POLK COUNTY UTILITIES
 GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
 CIVIL
 WATER MAIN CONNECTIONS - 2

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	JOB NO. PCU PN 2014-04-30-0 ORACLE NO. 6857014
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING NO. C-45
	SHEET NO. C-45 OF C-46



SCALE:
 1" = 5' (FULL-SIZE)
 1" = 10' (HALF-SIZE)

1 10" WATER MAIN CONNECTION AT OLD POLK CITY RD.
 C-20 1" = 5'

NOTES:

1. EXAMINE CONDITION OF AND FIELD MEASURE OUTER DIAMETER OF EXISTING MAIN BEFORE SUBMITTING SHOP DRAWINGS FOR TAPPING SLEEVE.
2. RESTRAIN ALL PIPE AND FITTINGS.
3. PROVIDE REDUCER WITH BOSS AND 1" NPT TAPPED OUTLET FOR AIR RELEASE VALVE.

REV	DATE	BY	DESCRIPTION

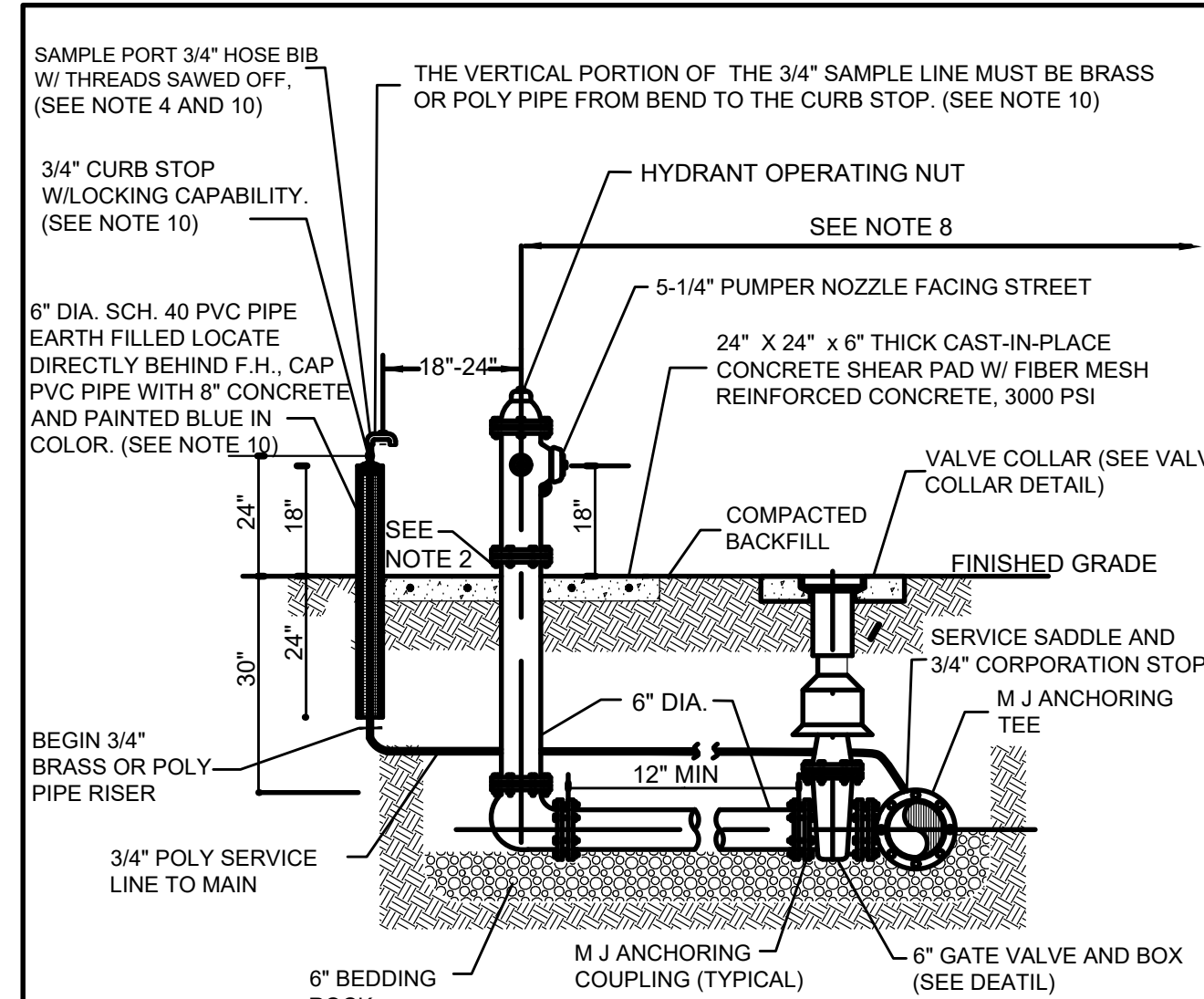
DESIGNED M.O.	
DRAWN C.M.	
CHECKED D.W.	
DATE JUNE 2020	



POLK COUNTY UTILITIES
 GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS

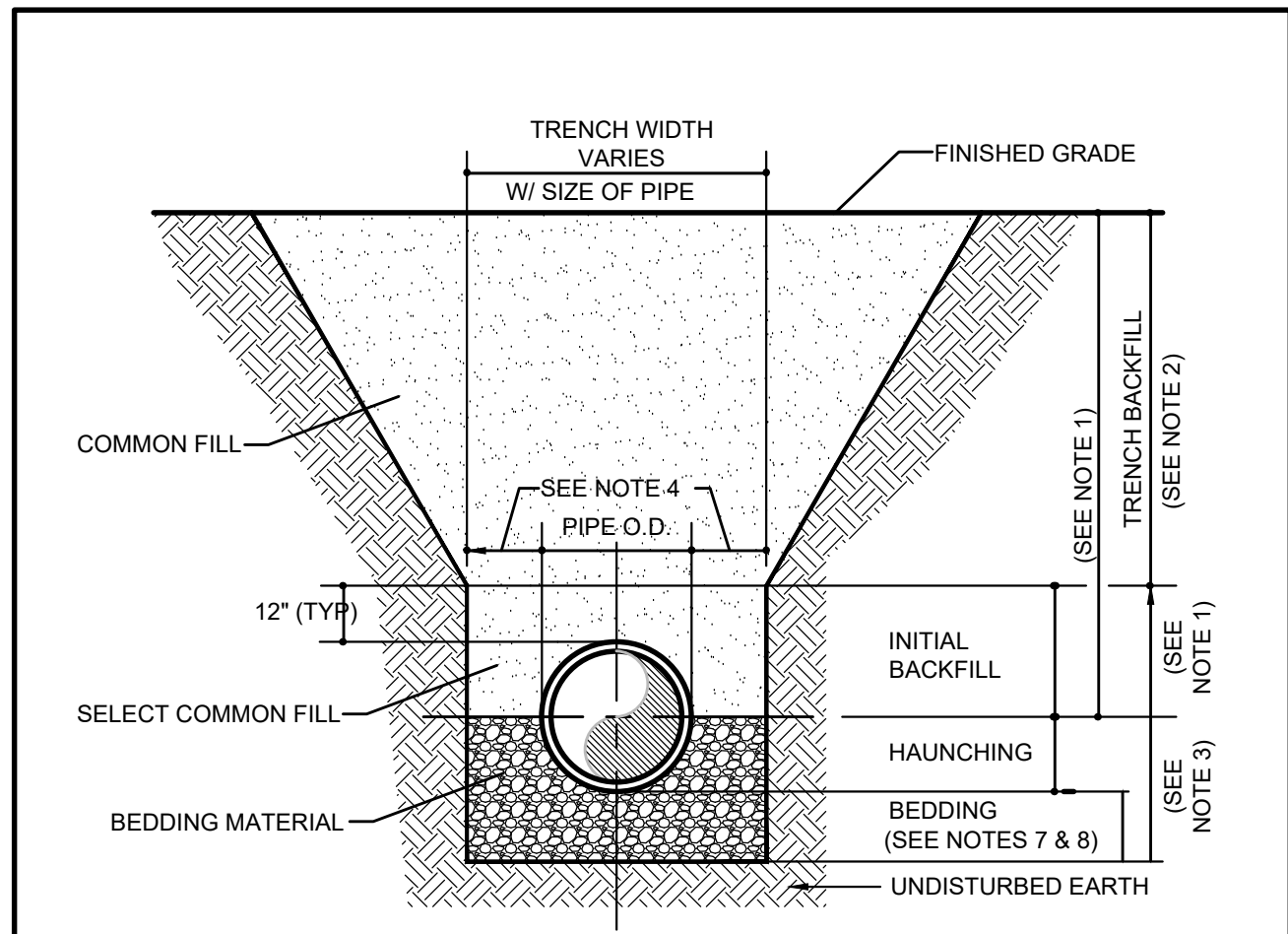
PLAN AND PROFILE
 WATER MAIN CONNECTIONS - 3

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	JOB NO. PCU PN 2014-04-30-0 ORACLE NO. 6857014
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING NO. C-46
	SHEET NO. C-46 OF C-46



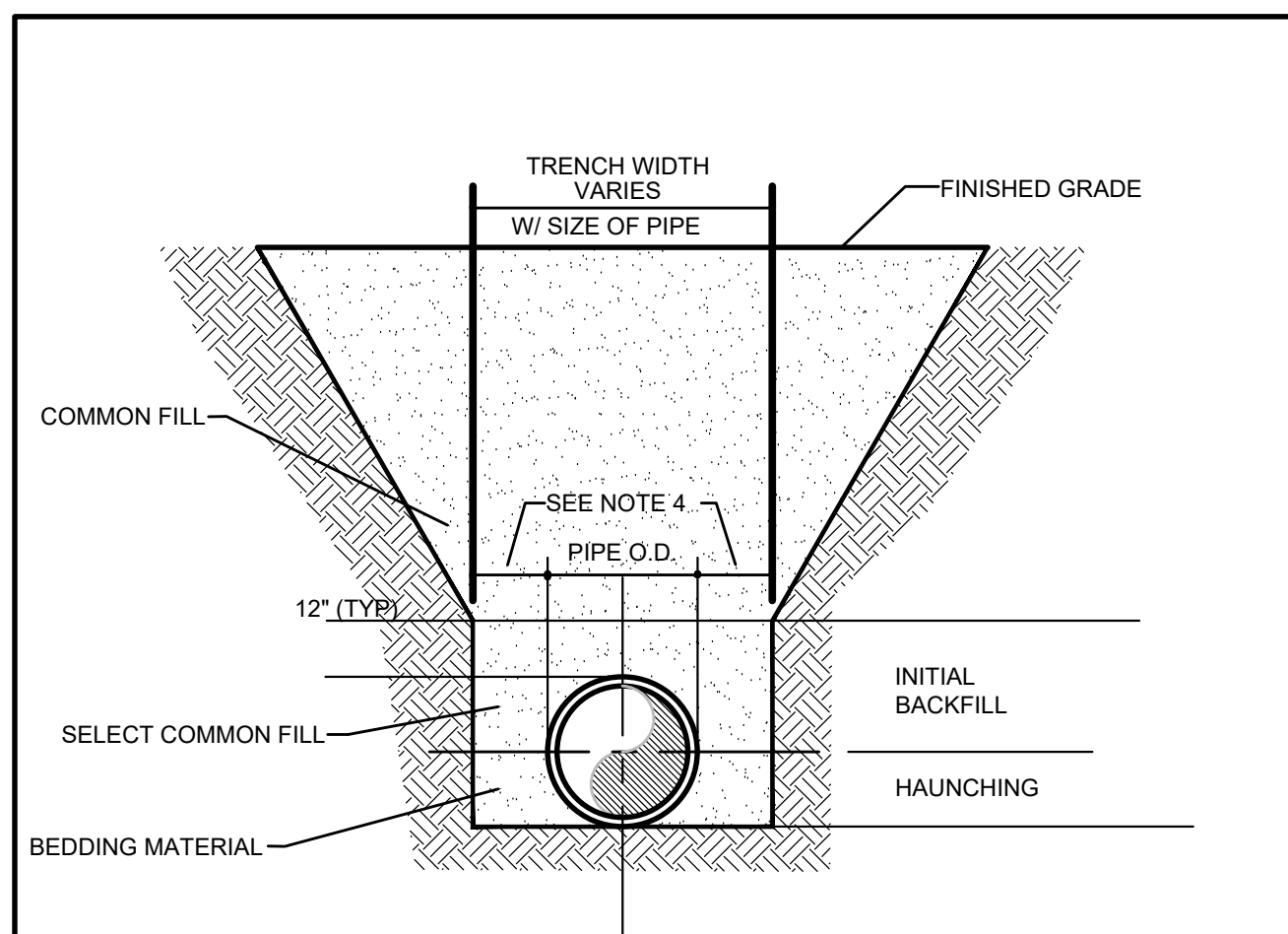
- NOTES:
- FIRE HYDRANT SHALL BE SUPPLIED WITHOUT A WEEP HOLE (DRY BARREL TYPE) UNLESS OTHERWISE APPROVED BY PCU.
 - CLEARANCE BETWEEN BOTTOM OF BOLTS AND TOP OF SHEAR PAD SHALL BE 6".
 - RESTRAINED JOINTS OR ALL-THREAD ROD REQUIRED TO SECURE PIPE, RISER AND VALVE IN THE FIRE HYDRANT ASSEMBLY TO THE MAIN.
 - TOP OF SAMPLE PORT TO BE LOWER THAN FLANGE ON FIRE HYDRANT BONNET.
 - HYDRANT SHALL BE PAINTED 1 COAT THEMEC 69-HIBUILD EPOXOLINE II (4-6DFT) AND ONE COAT 73-COLOR ENDURA SHIELD (3-5DFT), COLOR INTERNATIONAL ORANGE.
 - VALVE COLLAR AND HYDRANT SHEAR PAD MAY BE INCORPORATED INTO ONE 6" THICK PAD.
 - THRUST BLOCKS MAY ONLY BE USED WHEN CONNECTION IS TO AN EXISTING WATER MAIN AND IT IS NOT KNOWN IF THERE ARE RESTRAINED JOINTS BOTH WAYS FROM THE CONNECTION.
 - HYDRANT SHALL BE MIN OF 2' FROM EDGE OF SIDEWALK, 5' MIN FROM BACK OF MIAMI CURB AND 10' MIN FROM EDGE OF DRIVEWAY OR TURNOUT.
 - A BLUE REFLECTIVE PAVEMENT MARKER (RPM) SHALL BE INSTALLED 6 INCHES TO THE SIDE OF THE LANE STRIPE WHICH IS CLOSEST TO THE HYDRANT AND IN LINE WITH THE LARGEST PORT.
 - A PRE-MANUFACTURED ONE PIECE SAMPLE STATION MAY BE SUBSTITUTED FOR THE FIELD CONSTRUCTED SAMPLING STATION IN ACCORDANCE WITH THE APPROVED MATERIAL CHECKLIST.

FIRE HYDRANT ASSEMBLY **FIGURE WA-03**
POLK COUNTY UTILITIES, FLORIDA **OCTOBER, 2015**



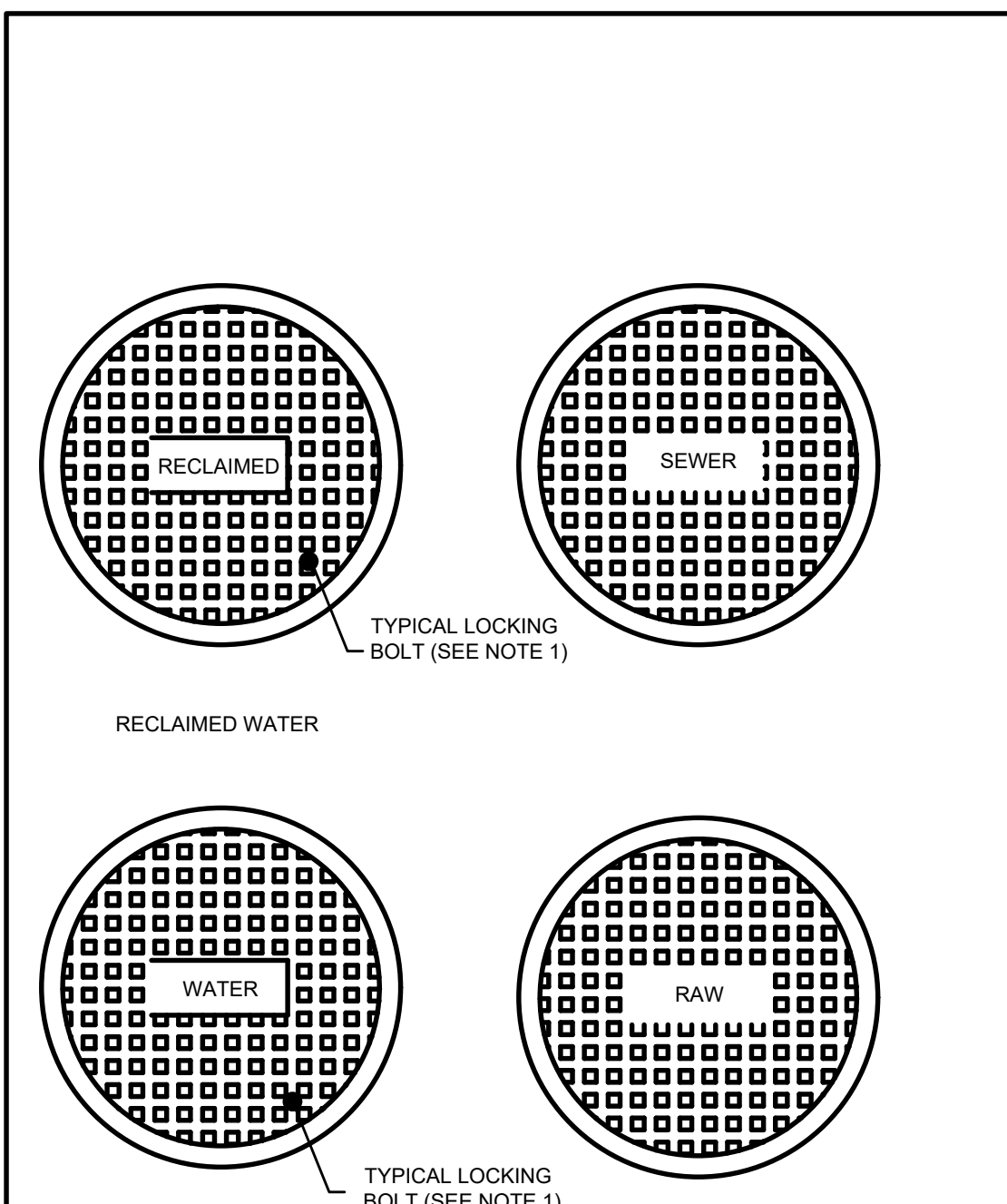
- NOTES:
- SELECT COMMON FILL UNDER & WITHIN 6 FEET OF THE EDGE OF ANY PAVED SURFACE SHALL BE PLACED IN 6" COMPACTED LIFTS TO TOP OF PIPE, THEN 12" COMPACTED LIFTS THEREAFTER, AND COMPACTED TO 100% OF MAX DENSITY PER AASHTO T-99. BACKFILL IN AREAS OUTSIDE THE ROADWAY SHALL BE PLACED IN 6" COMPACTED LIFTS TO TOP OF PIPE THEN 12" COMPACTED LIFTS THEREAFTER AND COMPACTED TO 95% MAX DENSITY PER AASHTO T-180.
 - TRENCH BACKFILL/BACKFILL COMPACTION SHALL BE IN ACCORDANCE WITH THE REGULATIONS OF THE GOVERNING AGENCY HAVING JURISDICTION OVER THE WORK SITE.
 - TYPE A BEDDING MATERIAL SHALL CONFORM TO FDOT NO. 57 AGGREGATE.
 - 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX. (18" MIN) FOR PIPE DIAMETER 24" AND LARGER.
 - WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
 - ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
 - BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER UP TO 12" AND 6" MINIMUM FOR PIPE DIAMETER 16" AND LARGER.
 - DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. PCU SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.
 - FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF THE GOVERNING AGENCY HAVING JURISDICTION OVER THE WORK SITE. SURFACE RESTORATION WITHIN COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF POLK COUNTY.

BEDDING AND TRENCHING TYPE A **FIGURE GR-01**
POLK COUNTY UTILITIES, FLORIDA **OCTOBER, 2015**



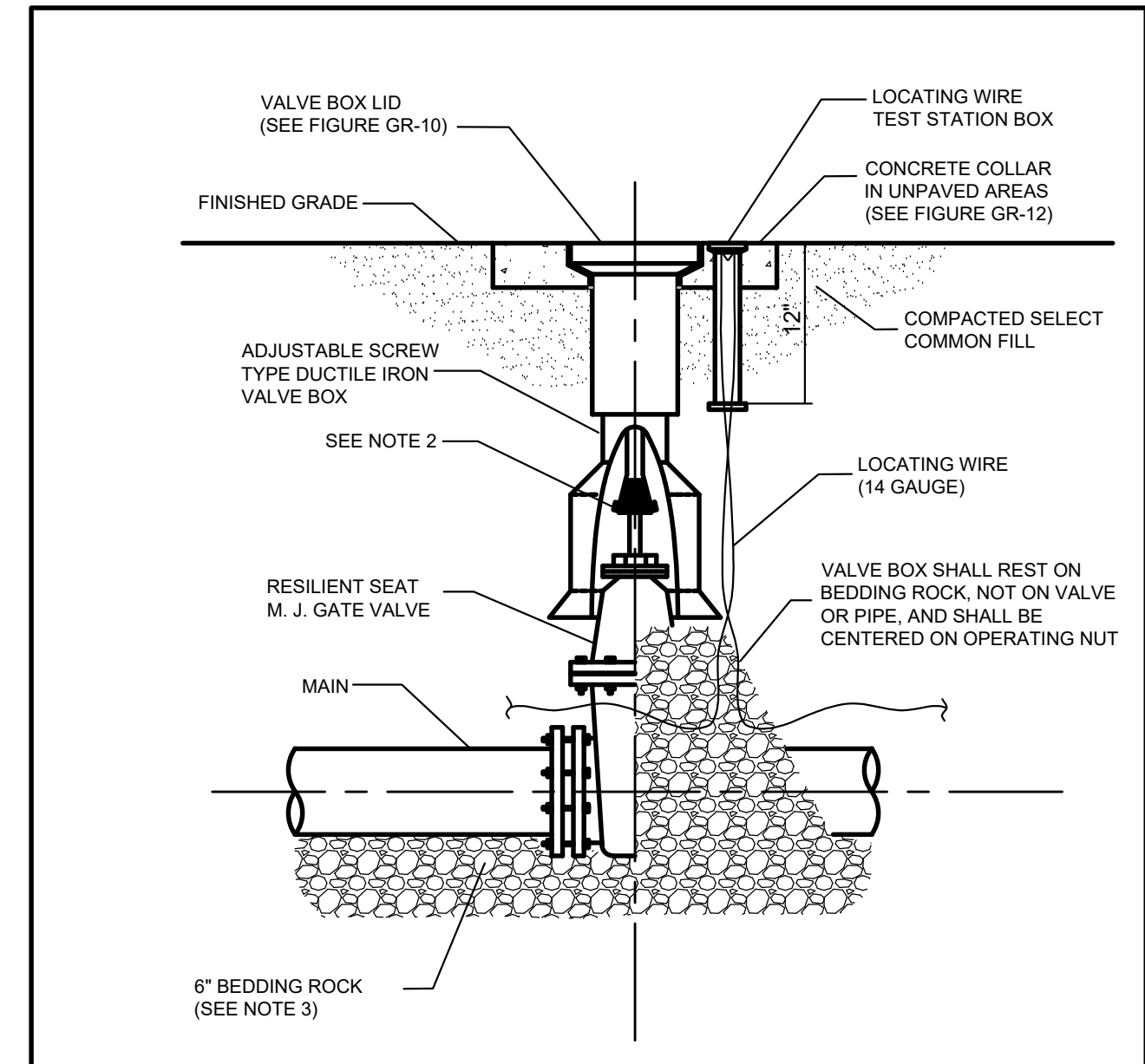
- NOTES:
- SELECT COMMON FILL UNDER & WITHIN 6 FEET OF THE EDGE OF ANY PAVED SURFACE SHALL BE PLACED IN 6" COMPACTED LIFTS TO TOP OF PIPE, THEN 12" COMPACTED LIFTS THEREAFTER, AND COMPACTED TO 100% OF MAX DENSITY PER AASHTO T-99. BACKFILL IN AREAS OUTSIDE THE ROADWAY SHALL BE PLACED IN 6" COMPACTED LIFTS TO TOP OF PIPE THEN 12" COMPACTED LIFTS THEREAFTER AND COMPACTED TO 95% MAX DENSITY PER AASHTO T-180.
 - TRENCH BACKFILL/BACKFILL COMPACTION SHALL BE IN ACCORDANCE WITH THE REGULATIONS OF THE GOVERNING AGENCY HAVING JURISDICTION OVER THE WORK SITE.
 - PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY PCU.
 - 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX. (12" MIN) FOR PIPE DIAMETER 24" AND LARGER.
 - WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
 - ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
 - FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF THE GOVERNING AGENCY HAVING JURISDICTION OVER THE WORK SITE. SURFACE RESTORATION WITHIN COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF POLK COUNTY.

BEDDING AND TRENCHING TYPE B **FIGURE GR-02**
POLK COUNTY UTILITIES, FLORIDA **OCTOBER, 2015**



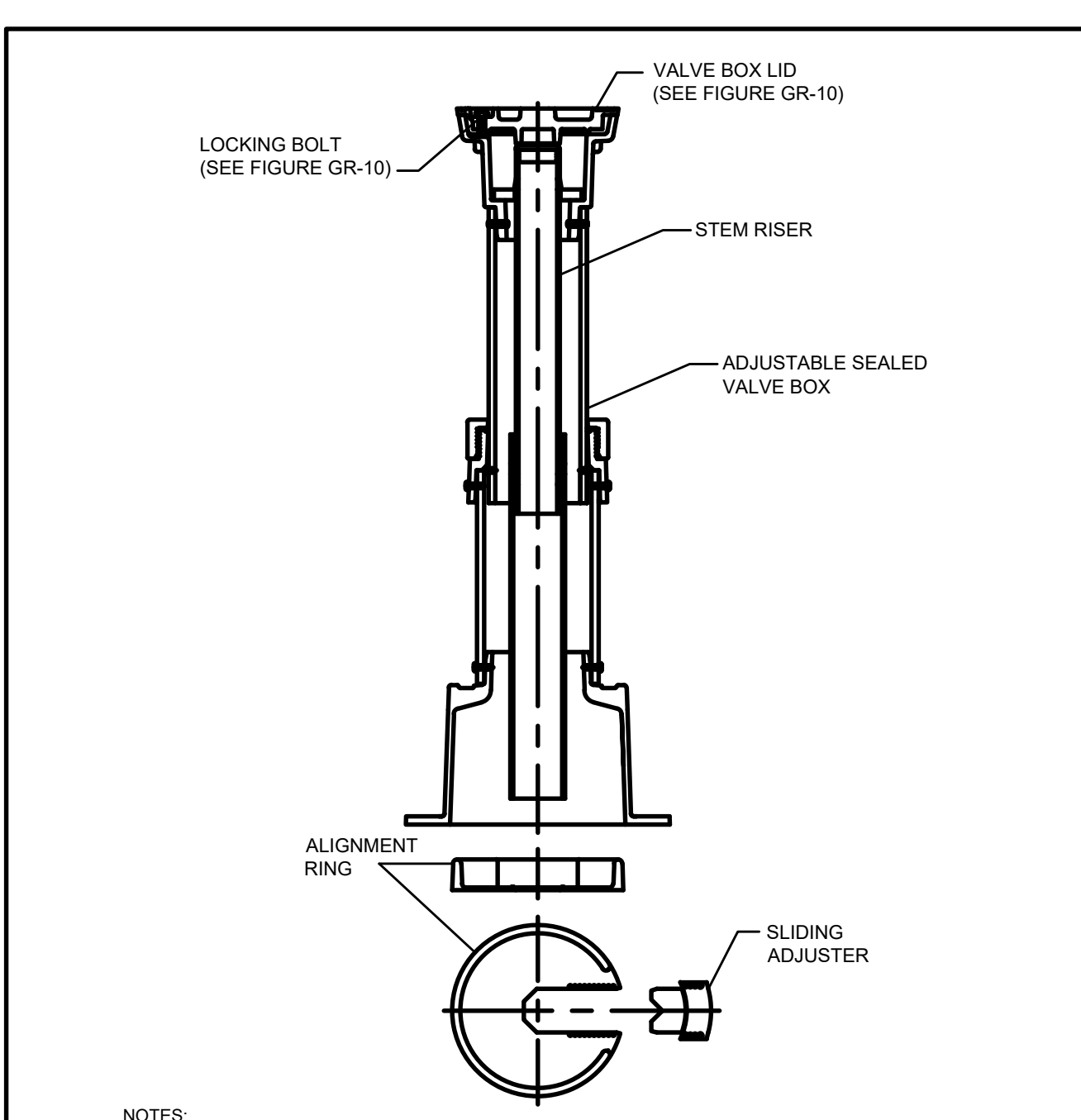
- NOTE:
- LOCKING LIDS ARE REQUIRED ON ALL VALVE BOXES LOCATED IN ROADWAYS WITH SPEED LIMITS ABOVE 30 MPH OR ON MAINS THAT ARE 16 INCHES IN DIAMETER OR LARGER.

TYPICAL VALVE BOX COVER **FIGURE GR-10**
POLK COUNTY UTILITIES, FLORIDA **OCTOBER, 2015**



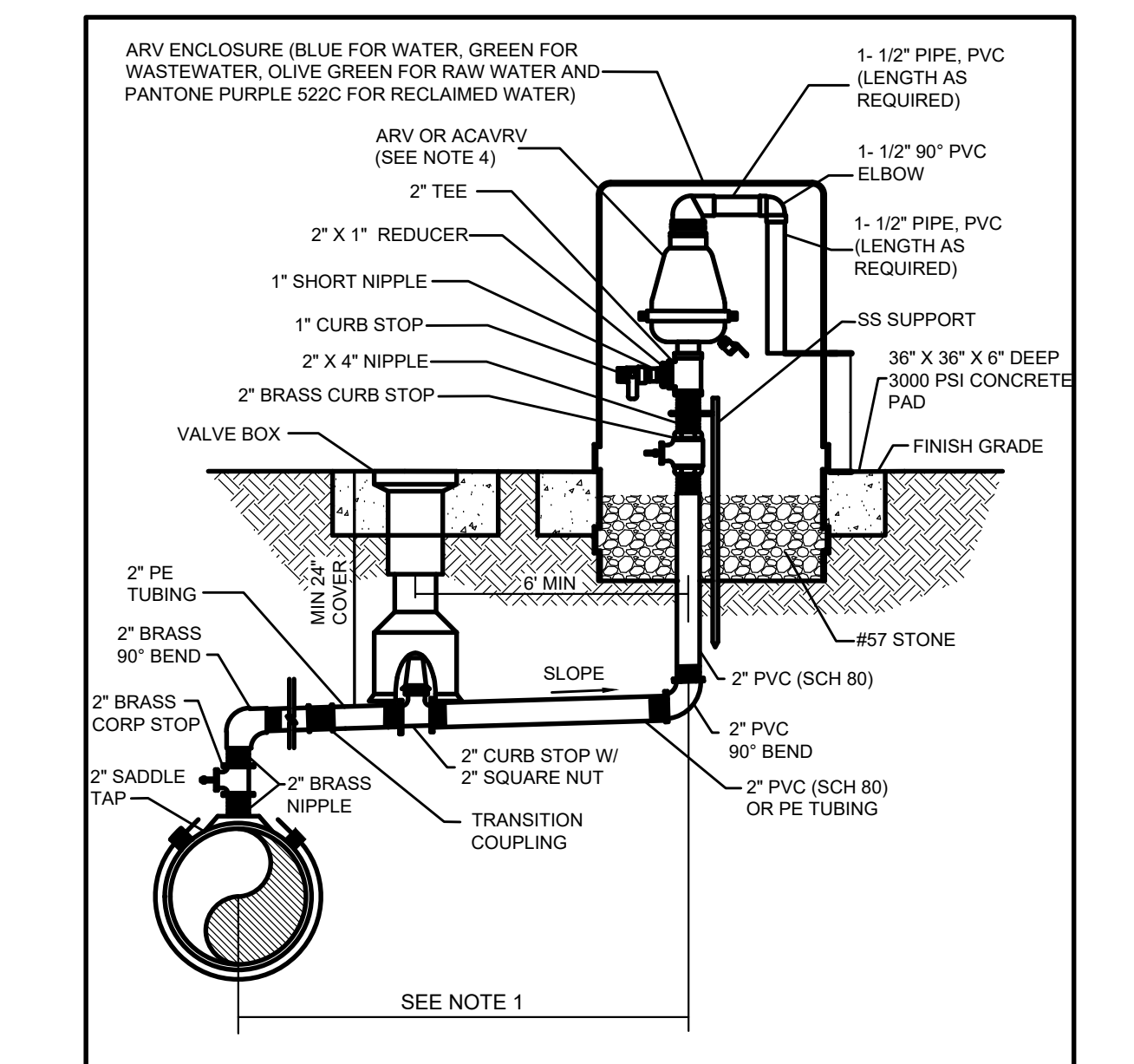
- NOTES:
- PVC PIPE OR DUCTILE IRON PIPE EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION IN PAVED AREAS.
 - THE VALVE ACTUATING NUT SHALL BE EXTENDED TO BE WITHIN 3" OF FINISHED GRADE.
 - BEDDING MATERIAL SHALL CONFORM TO FDOT NO. 57 AGGREGATE.
 - WIRE SHALL TERMINATE AT THE TOP OF THE TEST STATION BOX WITH 12" OF COILED EXCESS LENGTH.
 - REFER TO FIGURE GR-11 FOR INSTALLATIONS AT A DEPTH OF 6' OR GREATER.

GATE VALVE AND BOX (SHALLOW) **FIGURE GR-07**
POLK COUNTY UTILITIES, FLORIDA **OCTOBER, 2015**



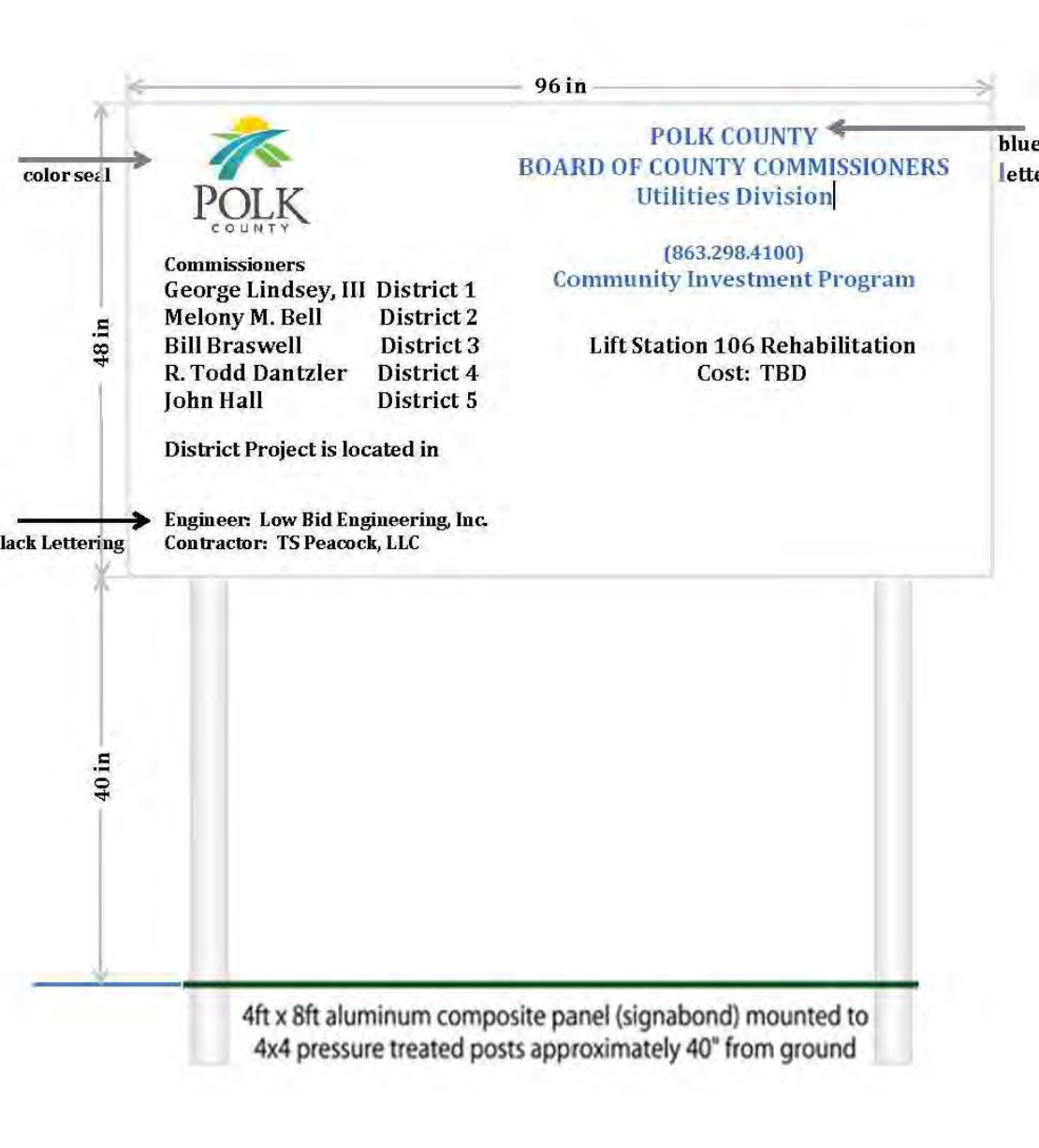
- NOTES:
- REQUIRED ON ALL MAINS WHENEVER THE TOP OF THE VALVE NUT IS 6 FEET OR DEEPER BELOW THE FINISHED SURFACE ELEVATION THAT IS DIRECTLY ABOVE THE VALVE LOCATION.

VALVE BOX ASSEMBLY (DEEP) **FIGURE GR-11**
POLK COUNTY UTILITIES, FLORIDA **OCTOBER, 2015**



- NOTES:
- OFFSET DISTANCE TO BE FIELD DETERMINED AND AS CLOSE TO THE RIGHT-OF-WAY AS POSSIBLE.
 - ADJUST HORIZONTAL LOCATION OF SIDEWALK, AS REQUIRED TO AVOID ARV ENCLOSURE.
 - ABOVE DETAIL IS BASED ON 2" RELEASE VALVE. CHANGE PIPE AND FITTINGS ACCORDINGLY FOR OTHER VALVE SIZES AND TYPES. VALVE SIZES AND NUMBERS TO BE DETERMINED BY THE ENGINEER AND APPROVED BY PCU PRIOR TO INSTALLATION.
 - AUTOMATIC COMBINATION AIR AND VACUUM RELEASE VALVES (ACAVRV) SHALL BE UTILIZED AS APPROPRIATE OR REQUIRED BY PCU.

AUTOMATIC AIR RELEASE VALVE (ABOVE GROUND) **FIGURE GR-15-1**
POLK COUNTY UTILITIES, FLORIDA **APRIL, 2017**



NOTE: SIGN TO BE INSTALLED WITHIN POLK COUNTY RIGHT OF WAY AT A LOCATION TO BE DETERMINED BY PCU.

PROJECT SIGN DETAIL **FIGURE SD-01**
POLK COUNTY UTILITIES, FLORIDA **NOT TO SCALE**

REV	DATE	BY	DESCRIPTION
1			
2			
3			

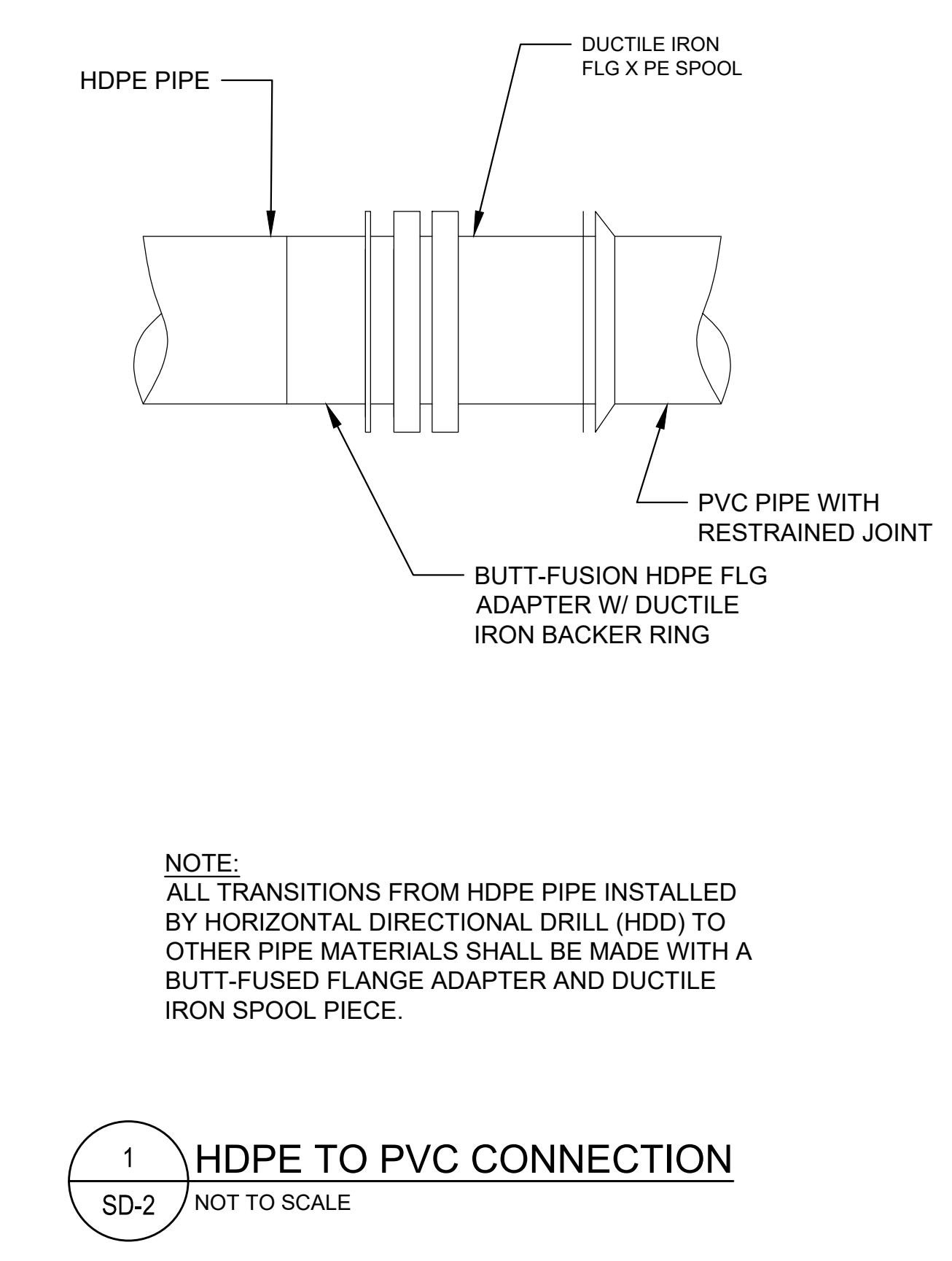
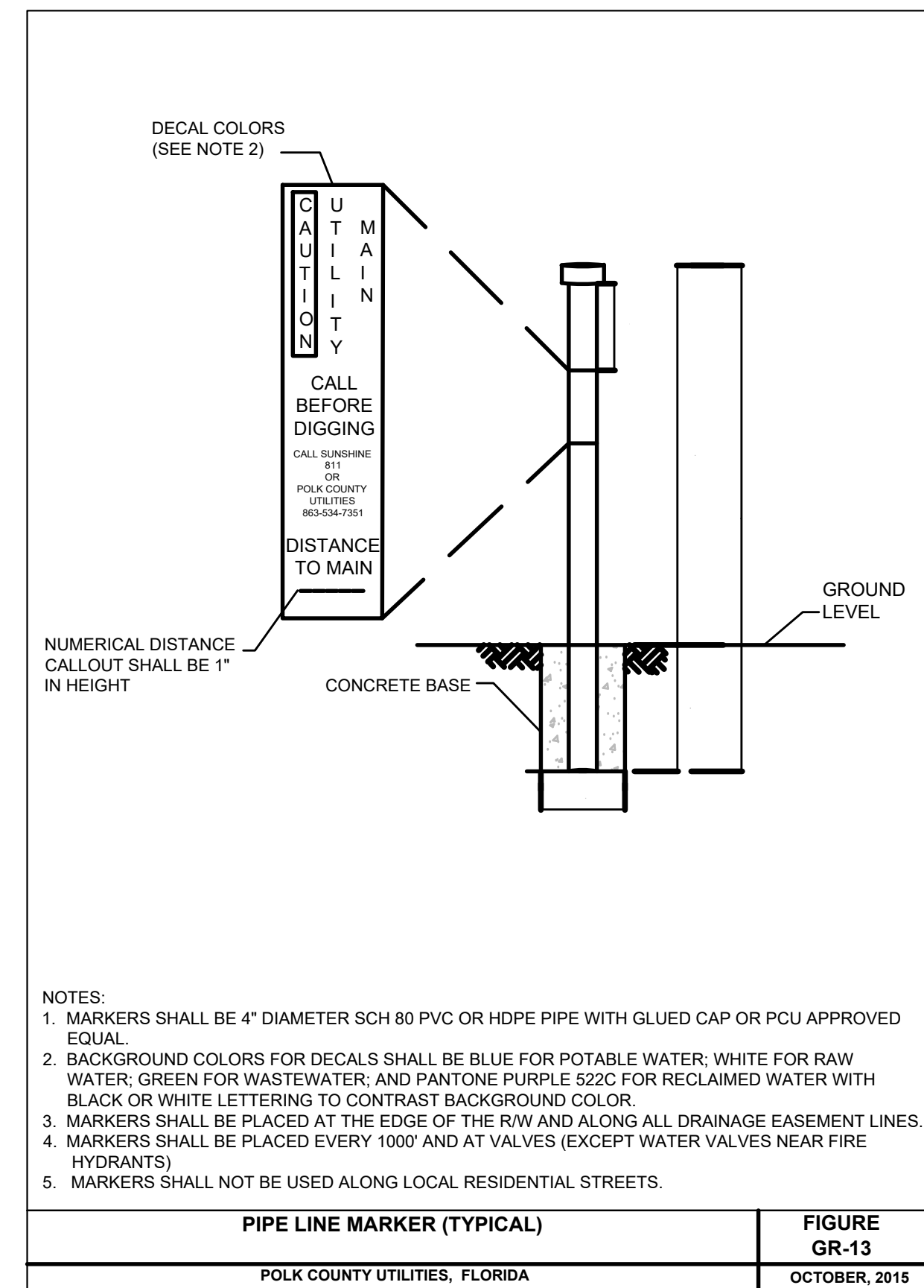
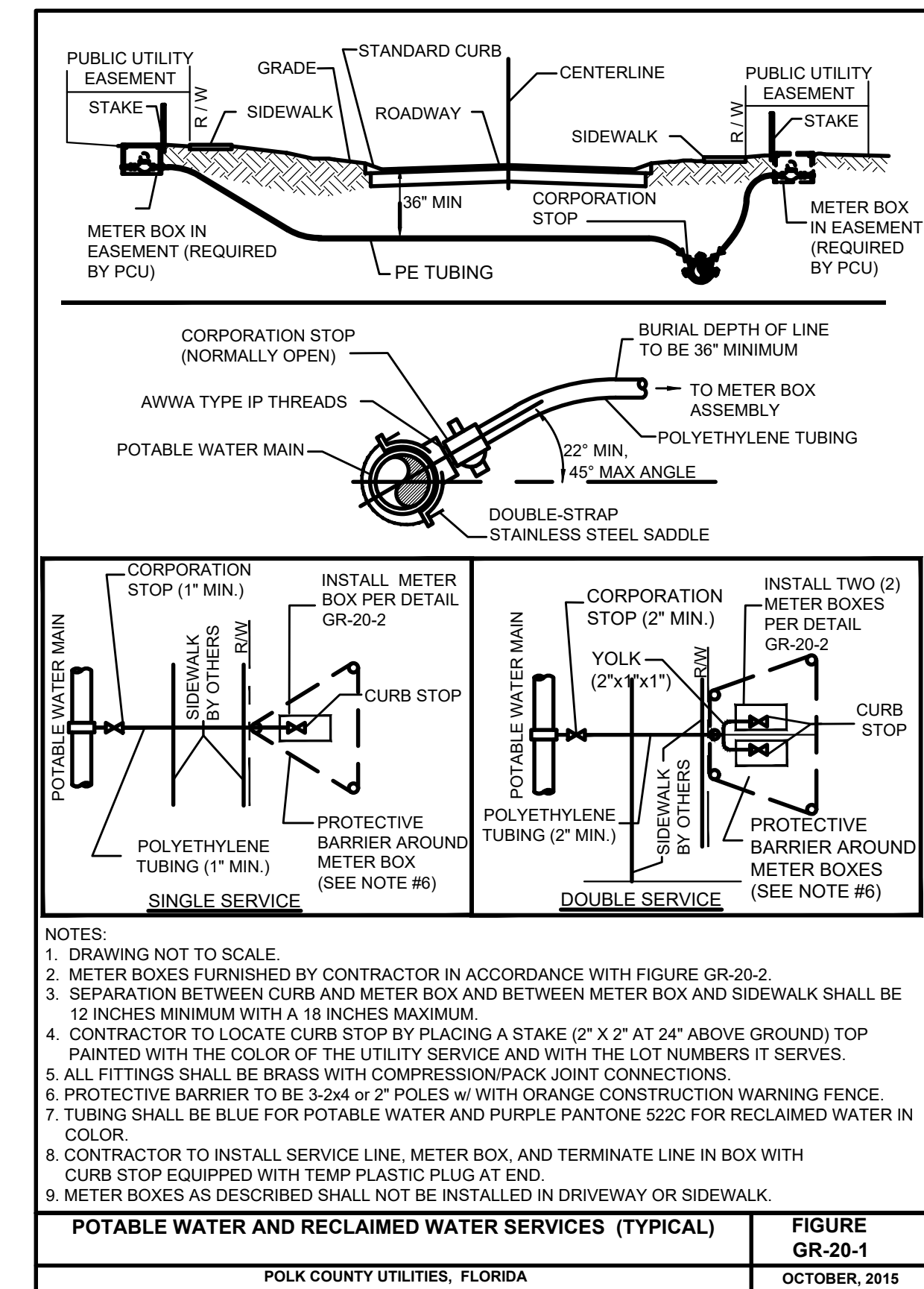
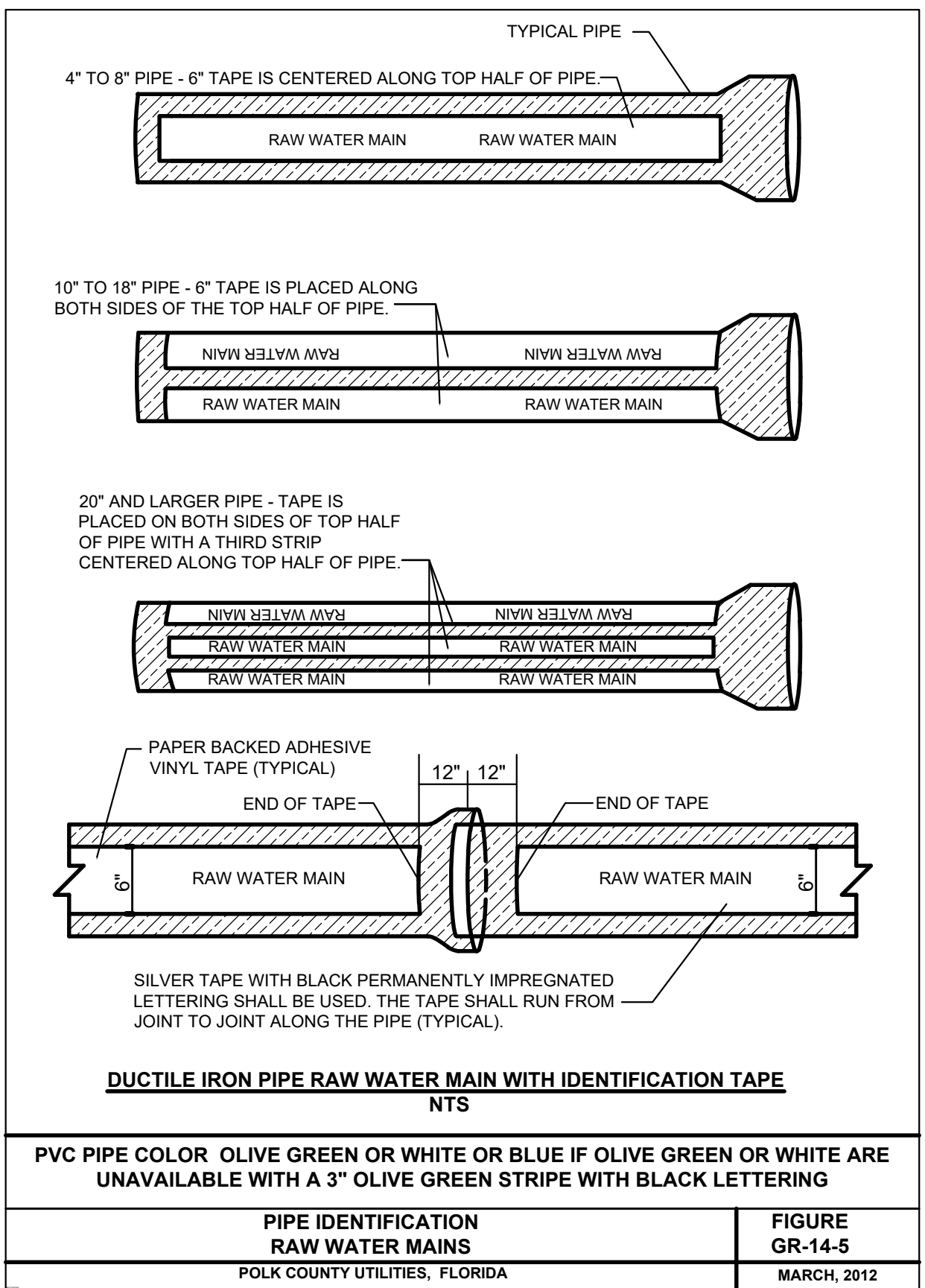
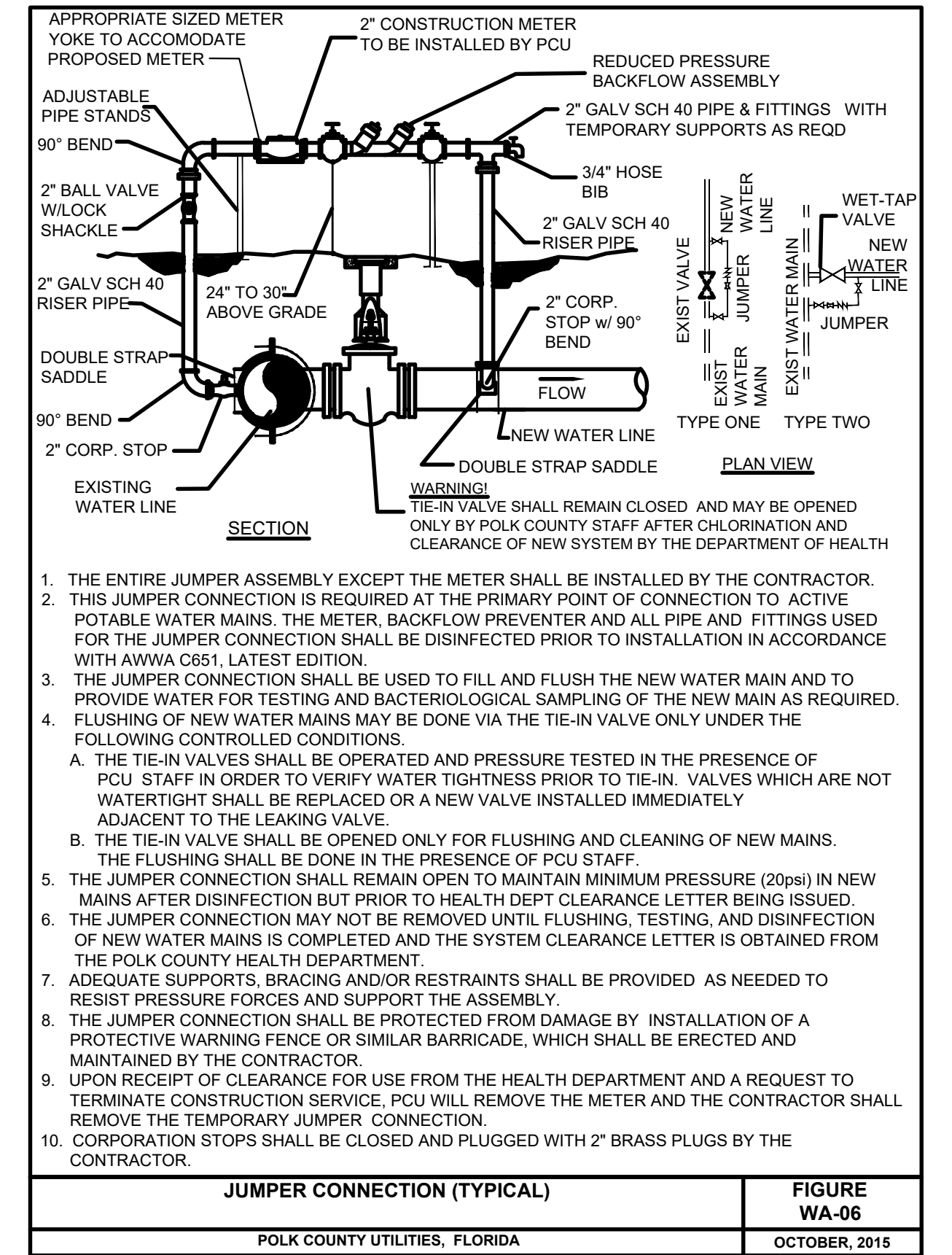
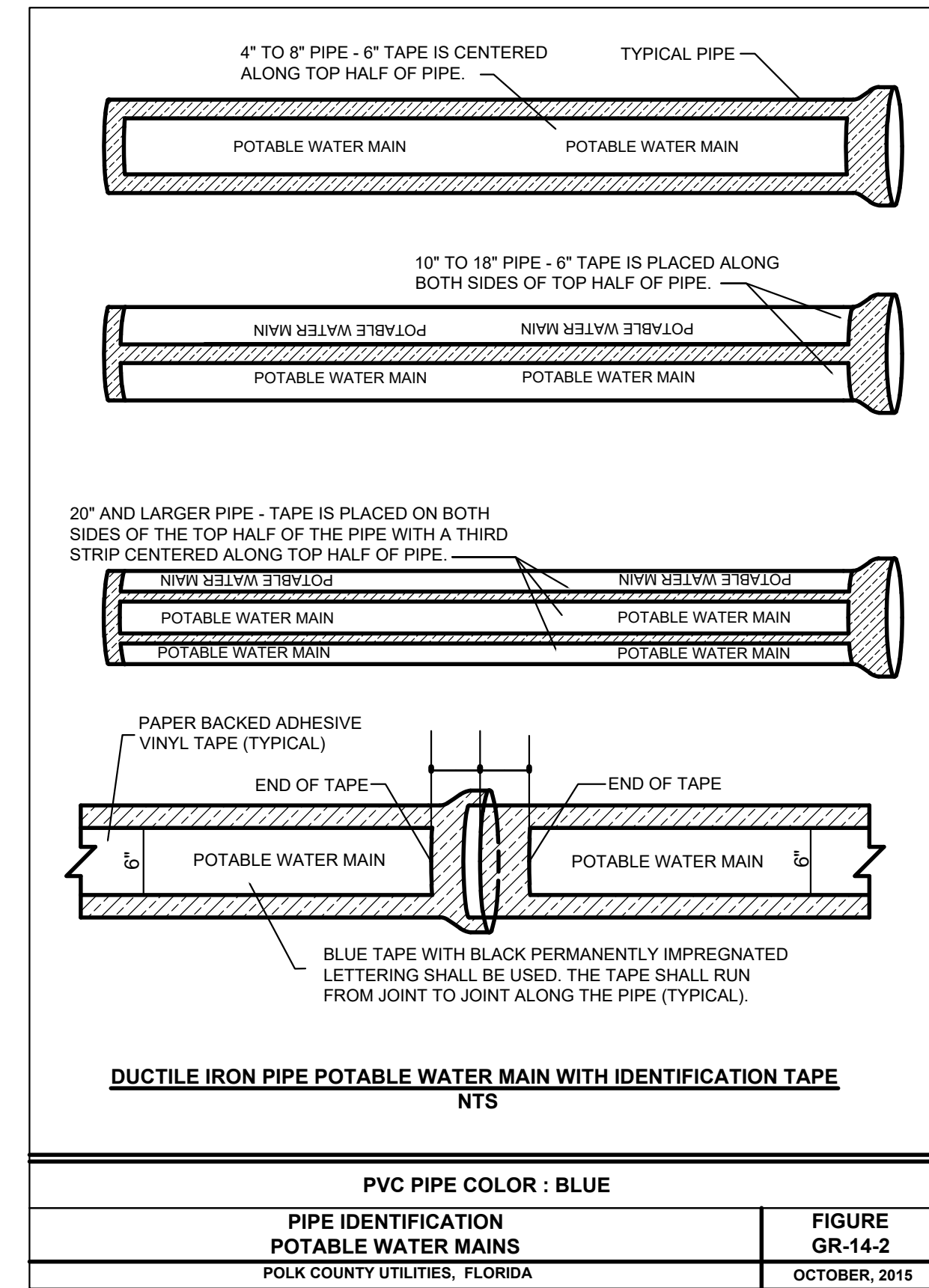
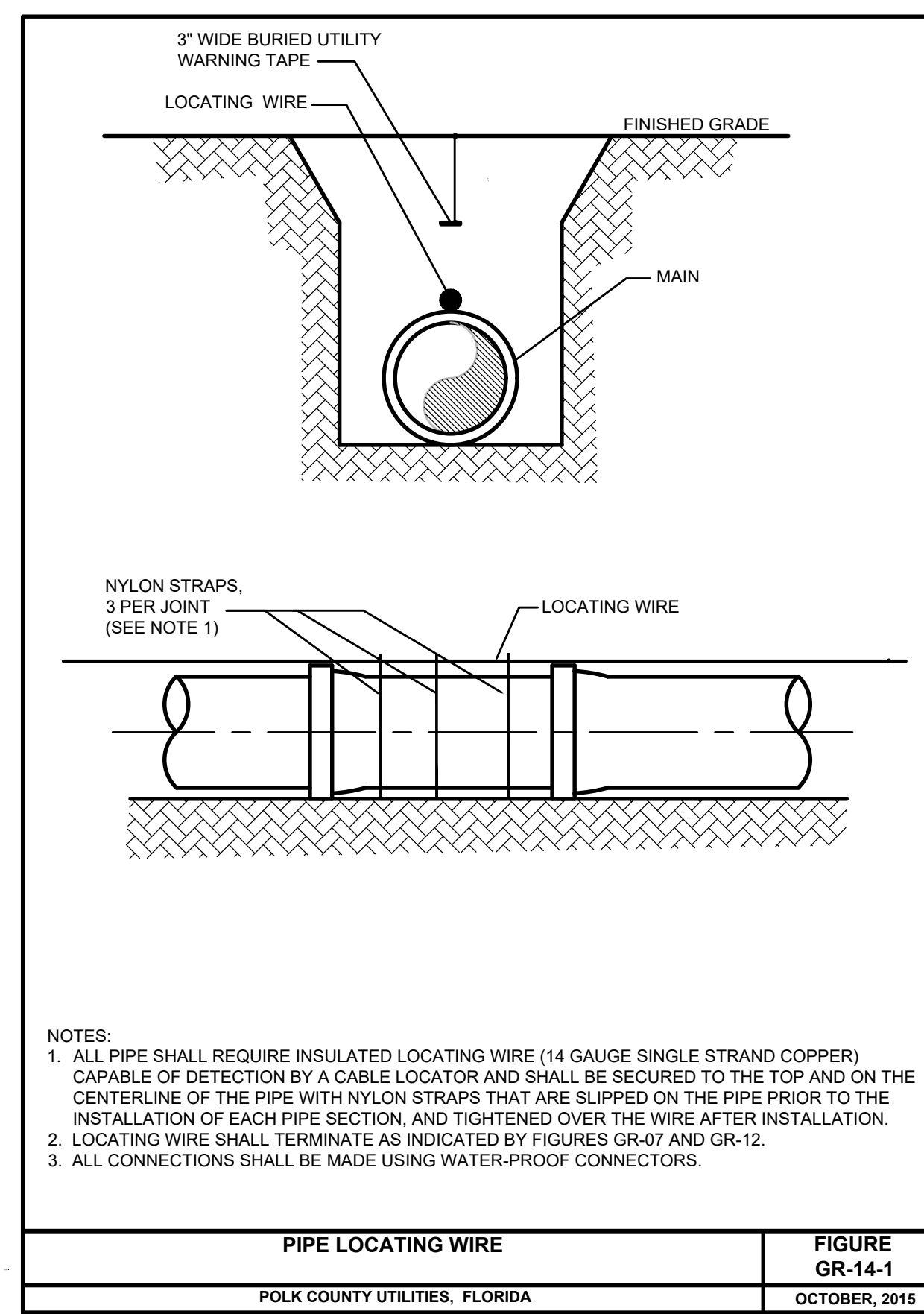
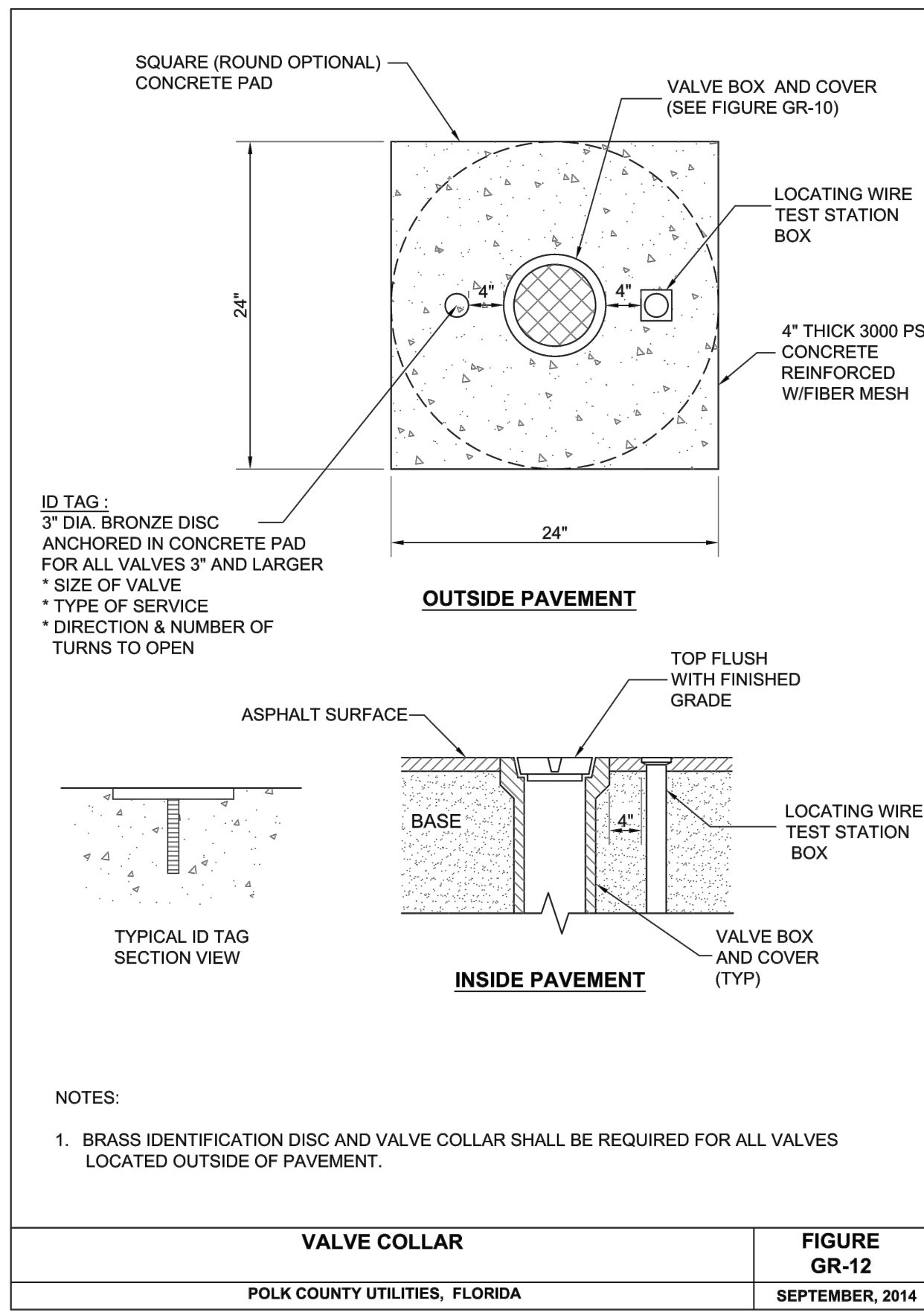
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DRAWN JM	
CHECKED DW	
DATE JUNE 2020	

3616 HARDEN BLVD., #110, LAKELAND, FL 33803
PH. (863) 559-2471

POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
CIVIL
STANDARD DETAILS-1

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING	JOB NO. PCU PN 2014-04-30-0 ORACLE NO. 6857014
0 1"	DRAWING NO. SD-01
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. SD-01 OF SD-03

1	
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REV	DATE	BY	DESCRIPTION
1			
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DESIGNED	MO
DRAWN	JM
CHECKED	DW
DATE	JUNE 2020

POLK COUNTY

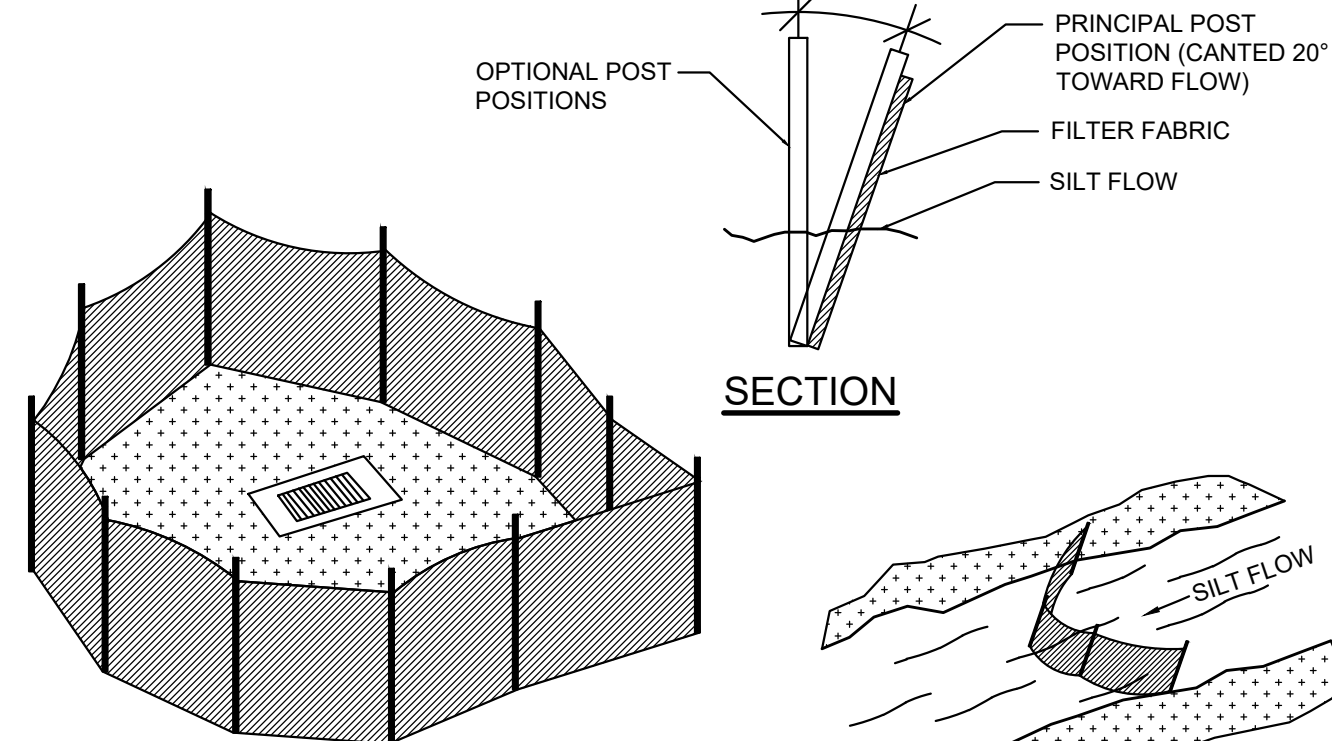
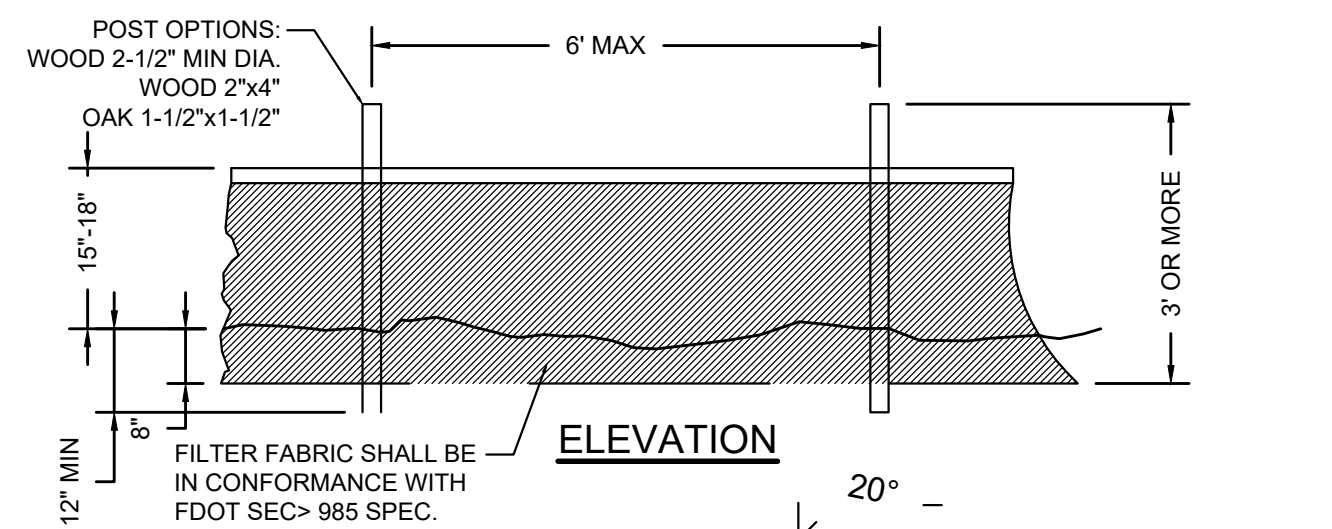
HSC

3616 HARDEN BLVD., #110, LAKELAND, FL 33803
PH. (863) 559-2471

POLK COUNTY UTILITIES	
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS	
CIVIL	
STANDARD DETAILS-2	

VERIFY SCALES	JOB NO.
BAR IS ONE INCH ON ORIGINAL DRAWING	PCU PN 2014-04-30-0 ORACLE NO. 6857014
0 1"	DRAWING NO.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SD-02
	SHEET NO.
	SD-02 OF SD-03

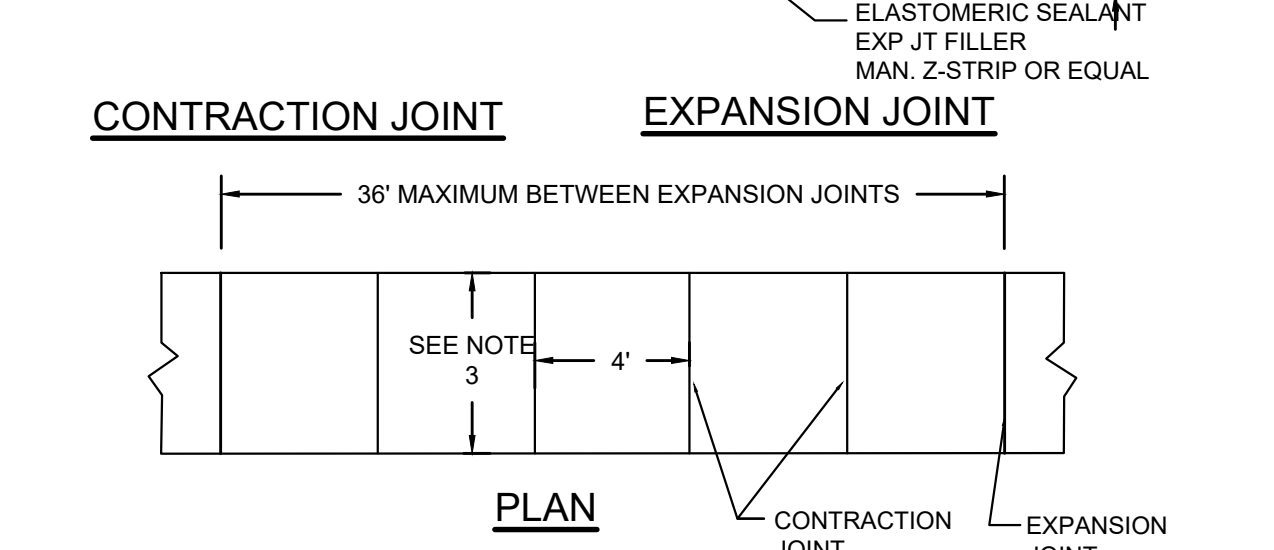
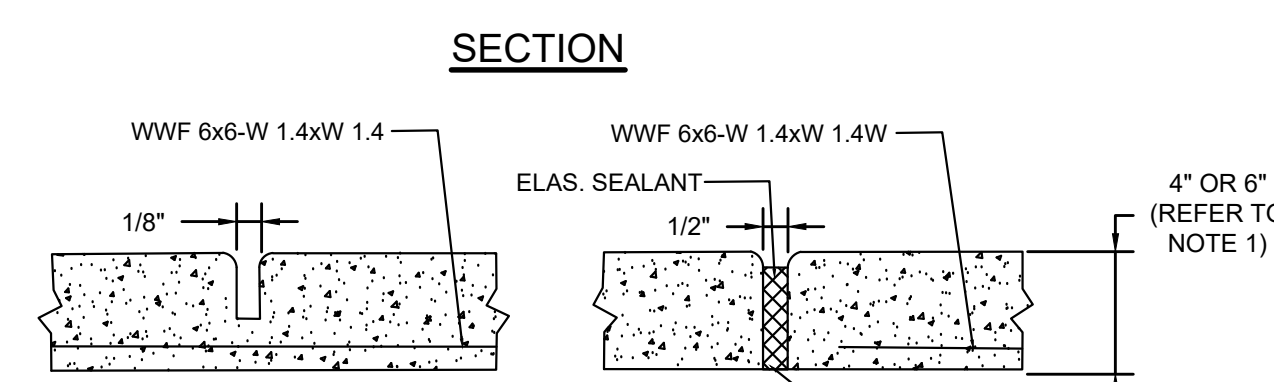
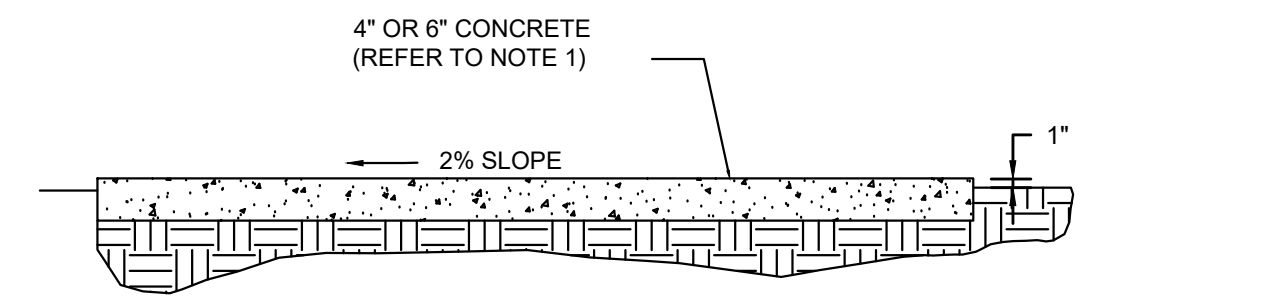
1	2	3	4	5	6	7	8	9	10	11	12	13
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TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLET PER FDOT INDEX 102

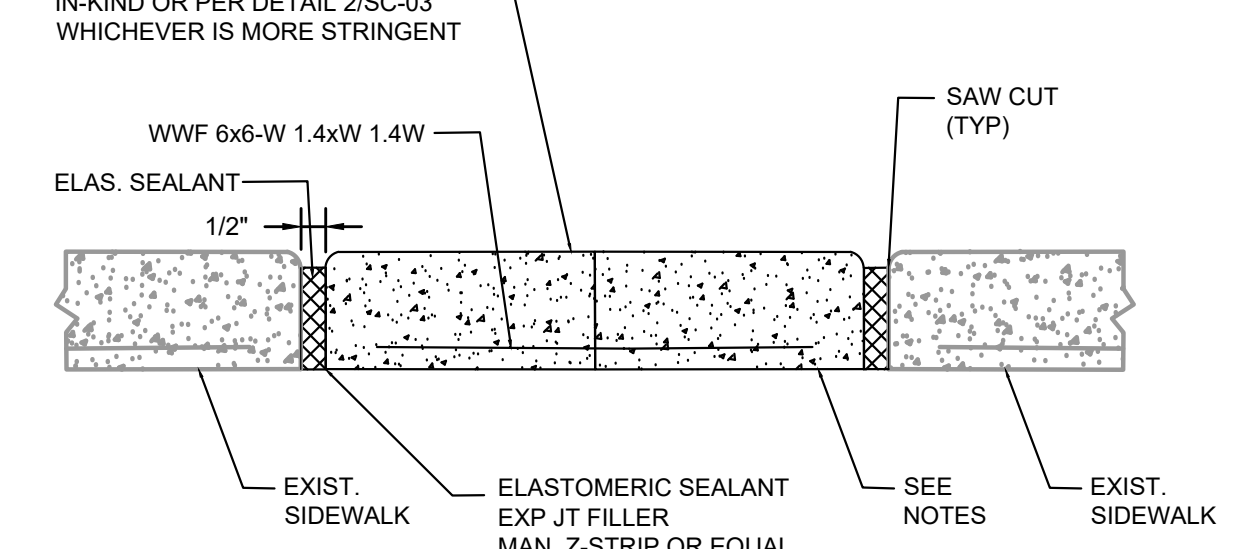
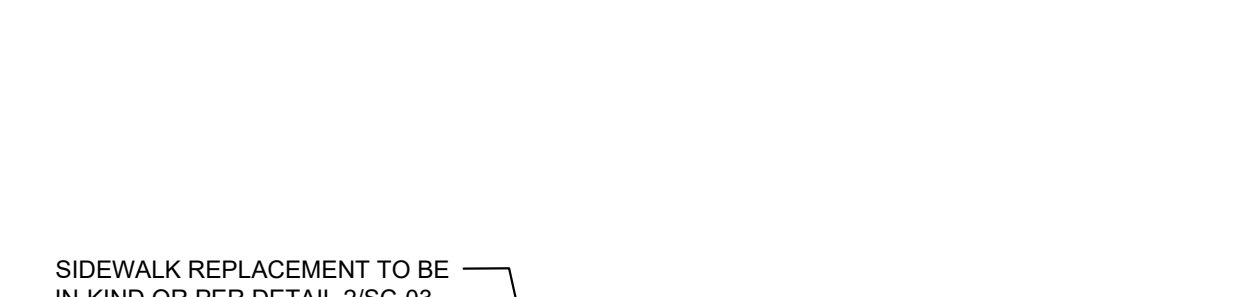
- NOTES:**
- DO NOT DEPLOY IN ANY MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

1 SILT FENCE DETAIL
SD-3 NOT TO SCALE



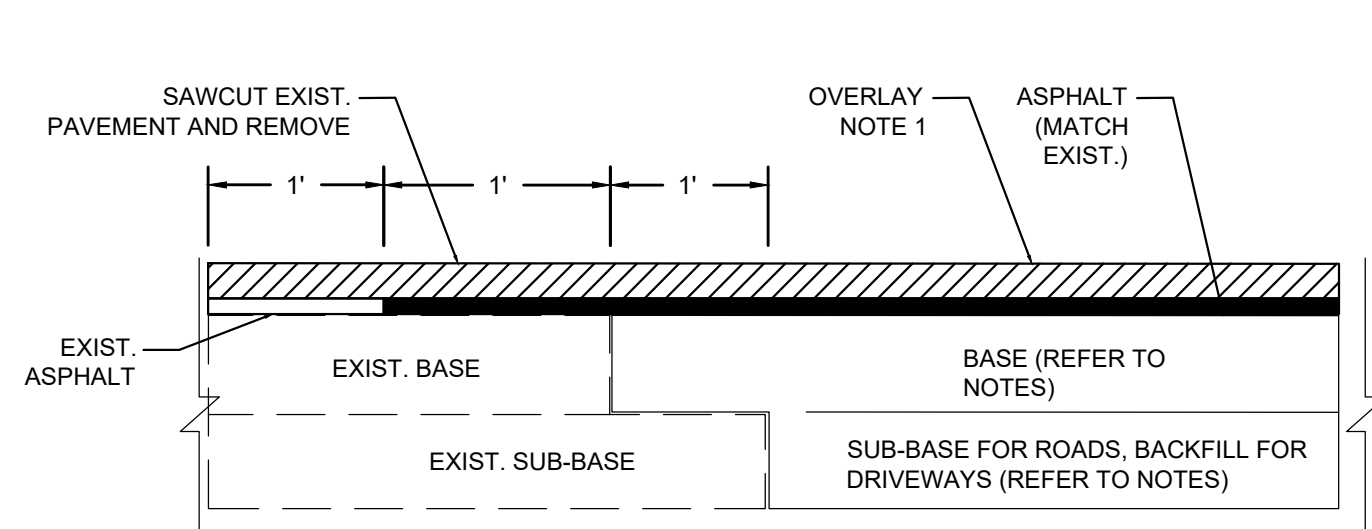
- NOTES:**
- SIDEWALK SHALL BE 4-INCHES THICK EXCEPT FOR THE LIMITS WITHIN DRIVEWAYS. SIDEWALKS WITHIN DRIVEWAYS SHALL BE 6-INCHES THICK.
 - ALL EXPANSION JOINTS TO BE Z-STRIP AND TO HAVE ELASTOMERIC SEALANT.
 - PROVIDE 1/2" EXPANSION JOINTS WHERE SIDEWALK ABUTS STRUCTURES OR OTHER SIDEWALKS.
 - MINIMUM SIDEWALK WIDTH IS 5 FT UNLESS OTHERWISE NOTED.

2 TYPICAL SIDEWALK DETAIL
SD-3 NOT TO SCALE



- NOTES:**
- COMPACT SUBGRADE UNDER REPLACEMENT SIDEWALK TO 98% OF THE MODIFIED MAXIMUM DENSITY (AASHTO T-180).
 - CONTRACTOR TO UTILIZE FOR ALL DAMAGED SIDEWALK FROM CONSTRUCTION.
 - REFERENCE DETAIL 2/SD-03.

3 SIDEWALK REPLACEMENT DETAIL
SD-3 NOT TO SCALE



- NOTES FOR ROAD RESTORATION:**
- LIMITS OF OVERLAY - EDGE OF PAVEMENT TO EDGE OF PAVEMENT AND 50' BEYOND LIMITS OF CONSTRUCTION.
 - CONNECTION TO OLDER (SUBSTANDARD THICKNESS TO THOSE HEREIN) ROADS WILL REQUIRE BASE AND SUB-BASE PER POLK COUNTY ROADS AND DRAINAGE.
 - ASPHALT LAYER SHALL BE A MIN OF 1.5" TYPE SP STRUCTURE COURSE.
 - BASE SHALL BE MIN 6" LIMEROCK (MIN LBR 100 AND COMPACTED TO 98% MODIFIED PROCTOR).
 - SUB-BASE SHALL BE 12" STABILIZER (MIN LBR 40 AND COMPACTED TO 98% OF MODIFIED PROCTOR).

- NOTES FOR DRIVEWAY RESTORATION:**
- REPLACEMENT PAVEMENT SURFACE MATERIAL AND THICKNESS TO MATCH EXISTING OR 1" MIN.
 - BASE AND BACKFILL MATERIALS SHALL BE EITHER OF THE SAME TYPE AND COMPOSITION AS THE MATERIALS REMOVED, OR OF EQUAL OR GREATER STRUCTURAL ADEQUACY. MATERIALS CONTAMINATED WITH DELETERIOUS SUBSTANCES DURING EXCAVATION SHALL NOT BE USED.
 - REPLACED BASE MATERIAL OVER DITCH SHALL BE 8" MIN.
 - COMPACTED BACKFILL SHALL BE PROVIDED BENEATH THE BASE LAYER INSTALLED IN LIFTS AND COMPACTED TO 100% OF MAX DENSITY PER AASHTO T-99. REFER TO THE TRENCHING DETAILS FOR LIFT REQUIREMENTS.

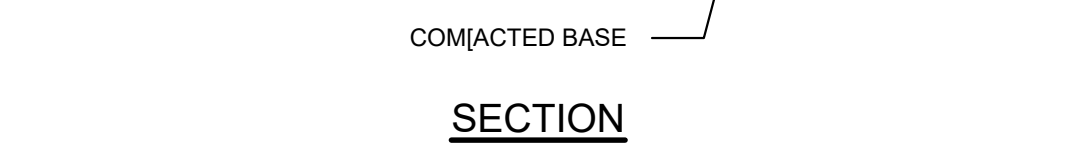
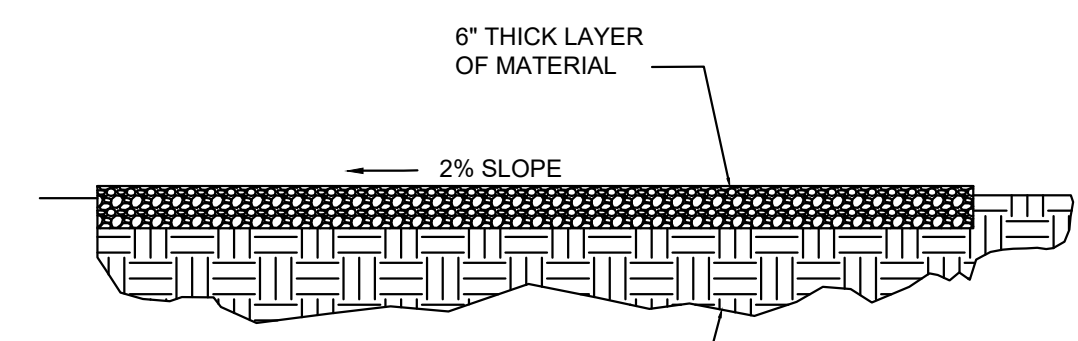
4 ASPHALT PAVEMENT DETAIL
SD-3 NOT TO SCALE

TYPE	D.I.P. PIPE SIZE															
	4"	6"	8"	10"	12"	16"	20"	24"	30"	36"	42"	48"				
90° BEND OR BRANCH OF TEE	37	52	67	80	93	118	140	161	190	216	239	261				
45° BEND	16	22	28	33	39	49	58	67	79	90	99	108				
22-1/2° BEND	8	11	14	16	19	24	28	32	38	43	48	52				
11-1/4° BEND	4	6	7	8	10	12	14	16	19	22	24	26				
PLUG OR CAP	103	145	190	227	268	343	415	484	580	671	753	832				
POINT OF CONNECTION WITH HDPE PIPE	40	40	40	40	40	40	40	40	40	40	40	40				

TYPE	PVC OR HDPE PIPE SIZE															
	4"	6"	8"	10"	12"	16"	20"	24"	30"	36"	42"	48"				
90° BEND OR BRANCH OF TEE	32	44	57	68	80	101	121	140	164	188	208	228				
45° BEND	13	19	24	29	33	42	50	58	68	78	86	95				
22-1/2° BEND	7	9	12	14	16	21	24	28	33	38	42	46				
11-1/4° BEND	4	5	6	7	8	10	12	14	17	19	21	23				
PLUG OR CAP	70	98	128	154	181	233	282	329	394	456	513	570				
POINT OF CONNECTION WITH HDPE PIPE	40	40	40	40	40	40	40	40	40	40	40	40				

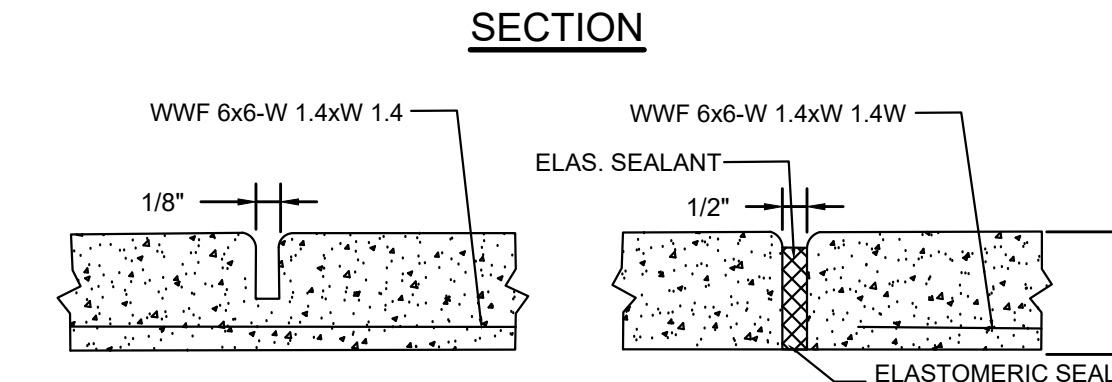
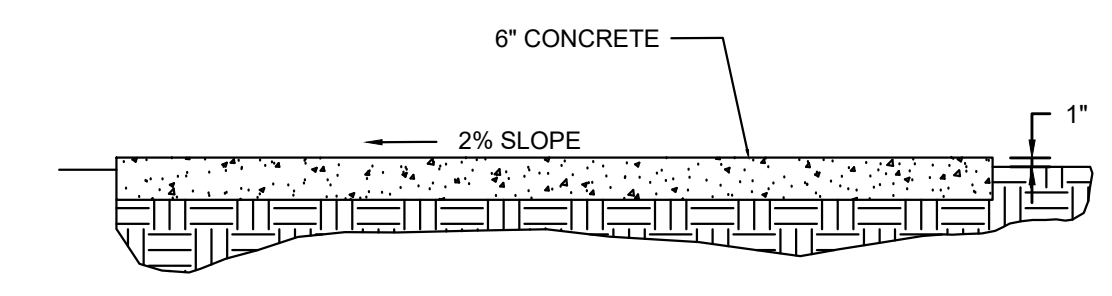
- NOTES:**
- FITTINGS SHALL BE RESTRAINED JOINTS UNLESS OTHERWISE INDICATED.
 - INSTALL FULL LENGTH JOINTS WITH TOTAL LENGTH EQUAL TO OR GREATER THAN SHOWN IN THE TABLE.
 - WHERE TWO OR MORE FITTINGS ARE TOGETHER, USE FITTING WHICH YIELDS GREATEST LENGTH OF RESTRAINED PIPE.
 - ALL LINE VALVES AND THROUGH RUN OF TEES SHALL HAVE MJ RESTRAINTS.
 - LENGTHS SHOWN IN THE TABLE HAVE BEEN CALCULATED IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" AS PUBLISHED BY DIPRA, WITH THE FOLLOWING ASSUMPTIONS:
WORKING PRESSURE: 150 PSI
SOIL DESIGNATION: SM (SAND SILT)
LAYING CONDITIONS: 3
 - THE ENGINEER SHALL VERIFY THESE MINIMUM DESIGN ASSUMPTIONS AND INCREASE LENGTHS WITH THE APPROVAL OF PCU.
 - DI PIPE WRAPPED WITH OR ENCASED IN POLYETHYLENE SHALL BE RESTRAINED SIMILAR TO PVC PIPE.

5 RESTRAINED PIPE TABLE
SD-3 NOT TO SCALE



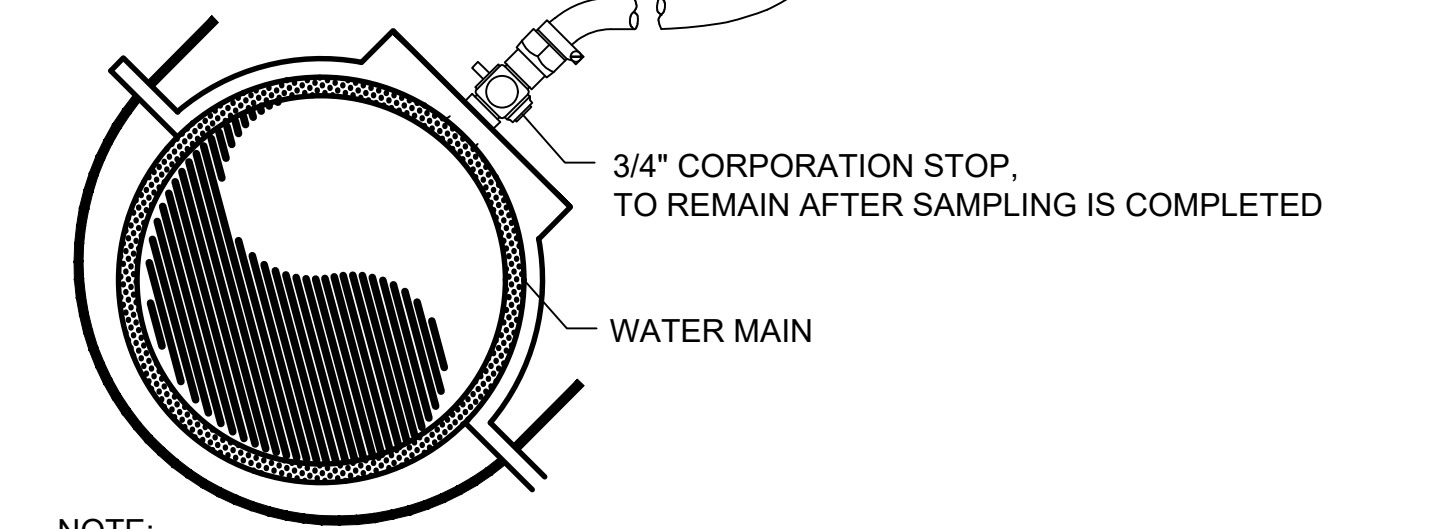
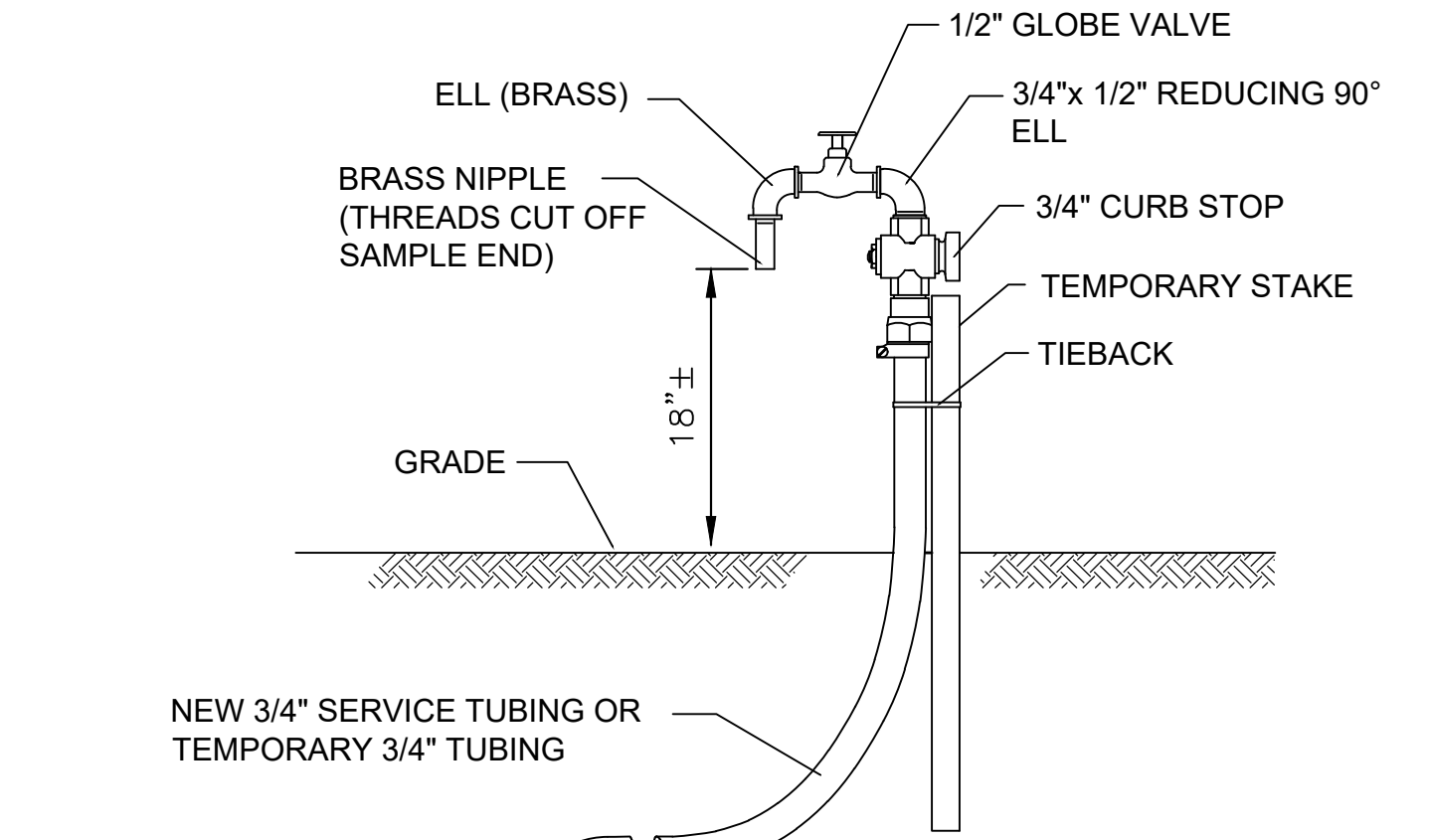
- NOTES:**
- RESTORE EXISTING DIRT DRIVEWAYS IN KIND WITH 6-INCHES OF COMPACTED MATERIAL.
 - FOR DIRT DRIVEWAYS WITH NO SHELL OR GRAVEL PRESENT, PROVIDE A MINIMUM LBR OF 40.
 - FOR DIRT DRIVEWAYS WITH SHELL, GRAVEL OR CRUSHED ASPHALT MIXED IN, PROVIDE A MINIMUM LBR OF 100.
 - LIMITS OF RESTORATION ARE TO MATCH THE EXISTING DRIVEWAY AT A MINIMUM FROM THE ROAD TO THE RIGHT OF WAY.

6 DIRT DRIVEWAY RESTORATION
SD-3 NOT TO SCALE



- NOTES:**
- REMOVAL OF EXISTING CONCRETE MUST BE COMPLETED FROM ROAD TO AN EXISTING JOINT FOR THE FULL WIDTH OF DRIVEWAY.
 - INSTALL NEW CONCRETE IN ACCORDANCE WITH FDOT INDEX NO. 515 USING THE SECTION SHOWN ABOVE. THE WIDTH OF THE RESTORED DRIVEWAY SHALL MATCH THE EXISTING WIDTH UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

7 CONCRETE DRIVEWAY RESTORATION
SD-3 NOT TO SCALE



NOTE:
REMOVE ALL ABOVE GROUND MATERIALS, CLOSE AND PLUG CORPORATION STOP. REMOVE TEMPORARY TUBING AFTER ACCEPTANCE OF PIPELINE.

8 TEMPORARY SAMPLE TAP DETAIL
SD-3 NOT TO SCALE

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED MO
DRAWN JM
CHECKED DW
DATE JUNE 2020



3616 HARDEN BLVD., #110, LAKELAND, FL 33803
PH. (863) 559-2471

POLK COUNTY UTILITIES
GIBSON OAKS WPF OFF-SITE PIPELINE IMPROVEMENTS
CIVIL
STANDARD DETAILS-3

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
PCU PN 2014-04-30-0
ORACLE NO. 6857014

DRAWING NO.
SD-03

SHEET NO.
SD-03 OF SD-03