

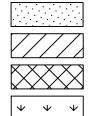
PROPOSED	CTIONAL DRILL) 42" GULF RUI NO. 1 GRAND E	N PIPELINE
DESCRIPTION	STATION	ELEVATION (ft)
ENTRY @ 10	434+74	133.55'
PC1= (4200 RADIUS)	432+42	92.70'
PT1=	425+13	28.89'
PC2= (4200 RADIUS)	423+29	28.89'
PT2=	417+45	69.77'
EXIT @ 08	412+99	132.38'
DIRECTIONAL DRIL	L PIPE LENGTH	= 2189 FT
HORIZONTAL	. DISTANCE = 2	175 FT

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DIREC PROPOSED HDD N	CTIONAL DRILL I 42" GULF RUN 10. 1 GRAND B	ATA PIPELINE AYOU	ь								SCALE: 1" =					
DESCRIPTION	STATION	ELEVATION (ft)	Ĕ							<u> </u>	NO. 1 G M.P. 8	<u>rand ba</u>	<u>YOU_</u>			
ENTRY @ 10	434+74	133.55'	DRILL								М.Р. 8	.03				
PC1= (4200 RADIUS)	432+42	92.70'	AL [7					
PT1=	425+13	28.89'	NOL				215				AYOU					
PC2= (4200 RADIUS)	423+29	28.89'	IREC				#B-(DEPI				С. Д					
PT2=	417+45	69.77'	, D , 0	0			DN DN				GRAN					
	412+99	132.38'					BORI				ىنى ھ					
	DISTANCE = 2°		5+6	> 4							3+6					
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			66 +							-			· ·			
42"	0.D. x 0.600"	W.T., API-5L-X70	412	_						42″ 0.	.D. x 0.864" W.T., A HORIZONTAL	PI-5L-X70, FBE CO DISTANCE = 2175'	DATED W/ARO			
		OATED									TRUE PIPE	LENGTH = 2189'				

NOTES:

- 1. VERTICAL DATUM: NAVD 88, HORIZONTAL DATUM: NAD83 UTM15, NORTH ZONE, US FOOT. 2. CONTRACTOR TO DETERMINE PILOT BORE AND FINAL REAMED DIAMETER TO ACCOMMODATE THEIR MEANS AND METHODS.
- ABSOLUTE MINIMUM ALLOWABLE DRILLING RADIUS SHALL BE 2,800 FEET BASED ON A 3 JOINT AVERAGE. 4. THE ENTRY POINT SHALL BE AS SHOWN ON THE DRAWINGS. THE EXIT POINT SHALL BE NO MORE THAN 0 FEET SHORT OR 20 FEET LONG RELATIVE TO
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- . HDD OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH ALL PERMIT REQUIREMENTS AND COMPANY SPECIFICATIONS. 8. THROUGHOUT THE PILOT BORE DRILLING FLUID PRESSURES SHALL BE MEASURED AT ALL TIMES AND AT A POINT AS CLOSE AS POSSIBLE BEHIND THE
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- CONSTRUCTION. IF ANY UTILITY IS LOCATED WITHIN 15 FEET OF THE PROPOSED HDD PROFILE AND ALIGNMENT, CONTRACTOR SHALL GAIN APPROVAL FROM ENABLE GULF RUN TRANSMISSION PRIOR TO BEGINNING HDD OPERATIONS.

<u>LEGEND</u>



PROPOSED PERMANENT EASEMENT PROPOSED TEMPORARY WORKSPACE EXTRA TEMPORARY WORKSPACE

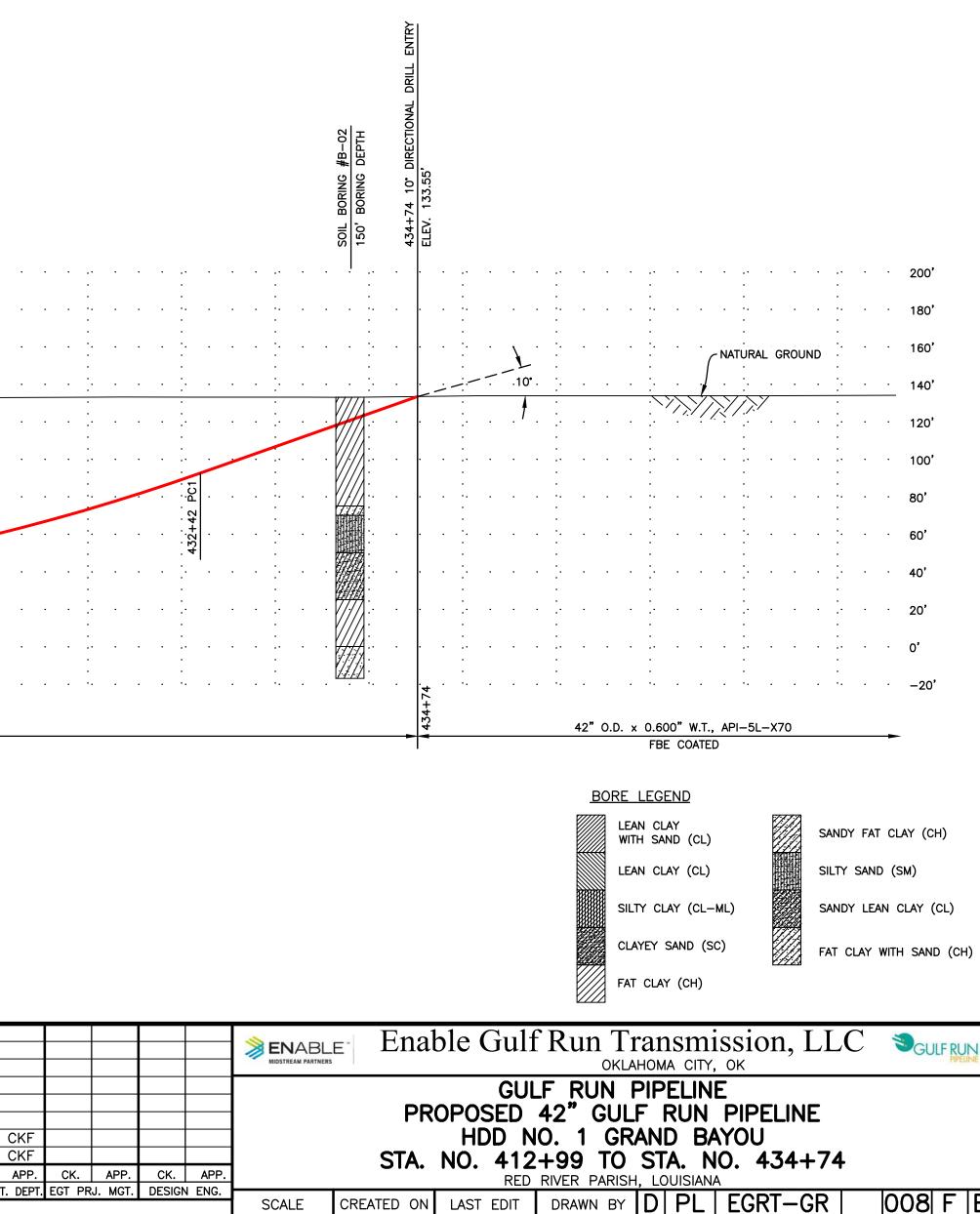
WETLAND

- 1.) EXCAVATE WITH CAUTION!!! EXACT LOCATIONS OF EXISTING UNDERGROUND PIPES AND UTILITIES ARE UNKNOWN.
- 2.) CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.



	VERTICAL SCA	LE: 1'	' = 50'				
	Modifications to this drawing are prohibited without the express written permission of the Enable Midstream Partners Project Engineer						
CROSLEY STREET	PROPRIETARY This drawing is confidential and is intended only for the				ISSUED FOR FERC APPLICATION ISSUED FOR FERC	JOI JOI	
MONROE, LA 71291 318 329 0095 IANA ENGINEERING	use of the individual or entity to which it is addressed and may contain information that is privileged, confidential and	REV LEVEL		BY	DESCRIPTION	CK. MM DRAF	<u>_</u> T.
NO. EF-0003450	exempt from disclosure under applicable law.				REVISIONS	-	

PROFILE HORIZONTAL SCALE: 1" = 100'



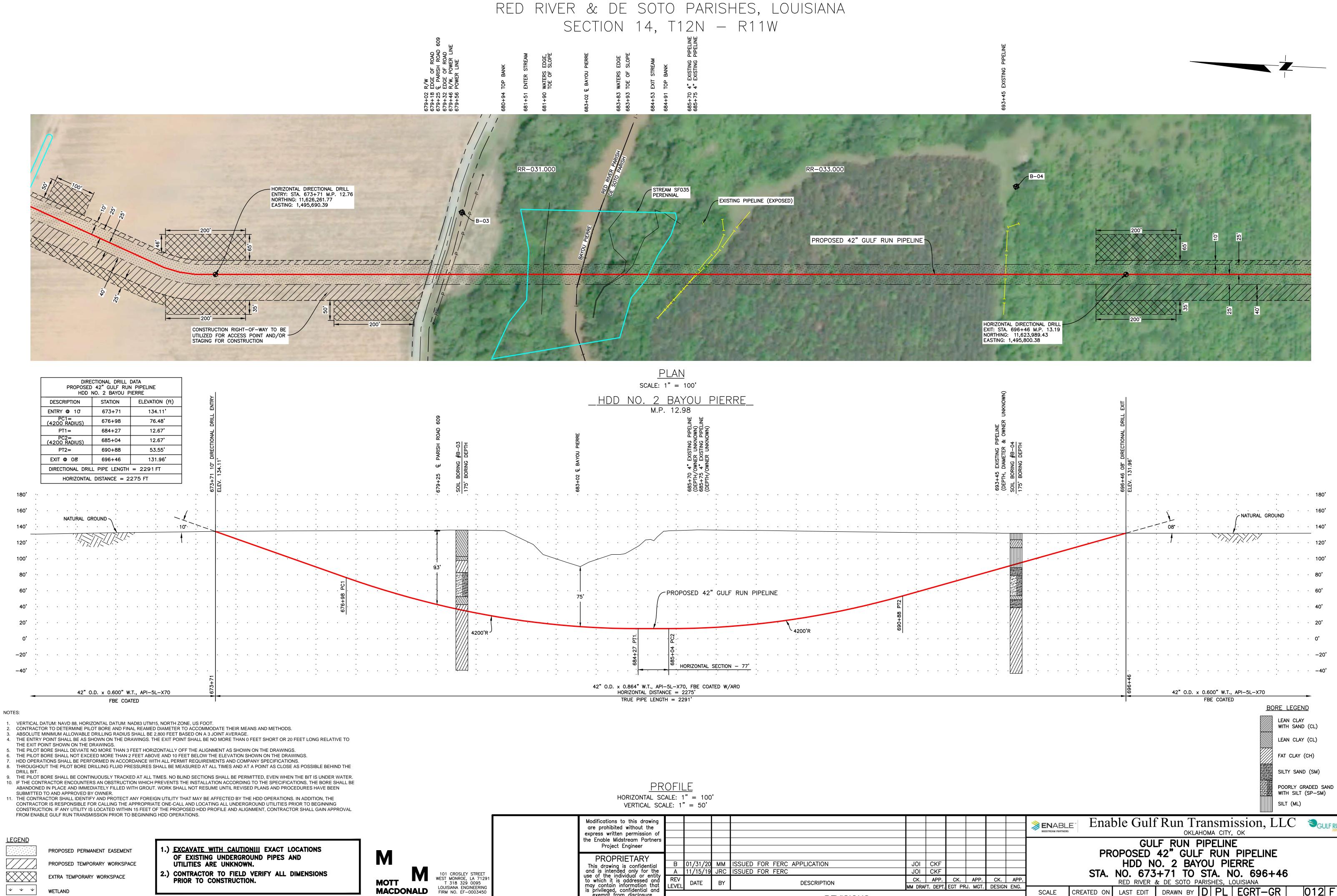
07/15/19 01/30/20

JRC-MM

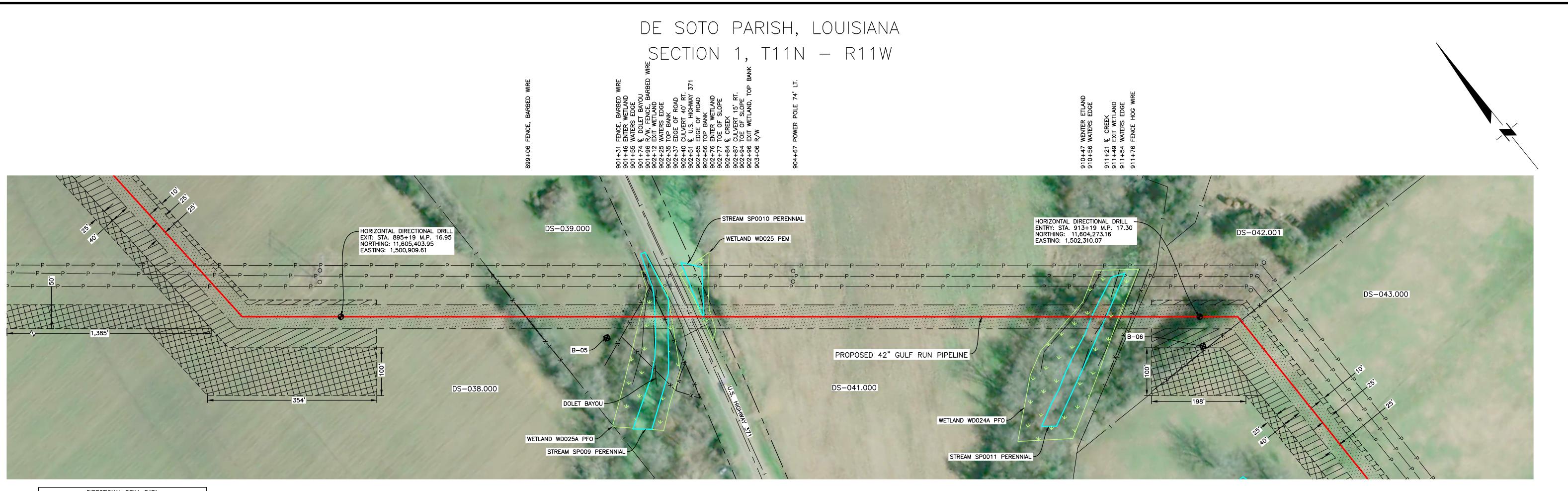
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NUMBER

AS NOTED



	1" = 100' <u>BAYOU PIERRE</u>			(NMC		. 1			
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	- PROPOSED 42" GULF RUN PIPELINE		· · · · · ·			· · · · · · · ·	· · · · · · · · · ·		· 60'
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	5		· · · · · ·			· · · · · · ·			· -20' · -40'
42" O.D. × 0.864" W.T., API HORIZONTAL DISTAI	–5L–X70, FBE COATED W/ARO					696+46	42" O.D. x 0.600"	N.T., API-51-X70	
TRUE PIPE LENG						→ <	FBE CC		END
HORIZONTAL SO VERTICAL SC	<u>POFILE</u> DALE: 1" = 100' ALE: 1" = 50'					11 0	14.5	LEAN CL WITH SAN LEAN CL FAT CLAY SILTY SA POORLY WITH SIL SILT (ML	AY ND (CL) AY (CL) Y (CH) ND (SM) GRADED SAND T (SP-SM)
Modifications to this drawing are prohibited without the express written permission of						nable Gu	If Run Transi	mission, LLC	
the Enable Midstream Partners Project Engineer						GI PROPOSED	ULF RUN PIPEL) 42" GULF RU	INE N PIPELINE	
CROSLEY STREET MONROE, LA 71291 318 329 0095 INAME FINGINE FRING CROSLEY STREET MONROE, LA 71291 CROSLEY STREET MONROE, LA 71291 This drawing is confidential and is intended only for the use of the individual or entity to which it is addressed and may contain information that	B01/31/20MMISSUEDFORFERCAFA11/15/19JRCISSUEDFORFERC	PPLICATION	JOI CKF JOI CKF			HDD	NO. 2 BAYOU 73+71 TO STA.	PIERRE	
CROSLEY STREET MONROE, LA 71291 318 329 0095 SIANA ENGINEERING NO. EF-0003450use of the individual or entity to which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law.	REV LEVEL DATE BY	DESCRIPTION	CK. APP.	CK. APP. CK. AF EGT PRJ. MGT. DESIGN EN	'P.	RED RIVER	R & DE SOTO PARISHES	, LOUISIANA	012 F E
exempt from disclosure under applicable law.		REVISIONS				/19 01/30/2		B JOB DWG PE NUMBER AREA	G SHEET/ REF A AREA SHT



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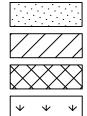
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- 4. THE ENTRY POINT SHALL BE AS SHOWN ON THE DRAWINGS. THE EXIT POINT SHALL BE NO MORE THAN 0 FEET SHORT OR 20 FEET LONG RELATIVE TO THE EXIT POINT SHOWN ON THE DRAWINGS.

42" O.D. x 0.600" W.T., API-5L-X70

FBE COATED

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<u>LEGEND</u>



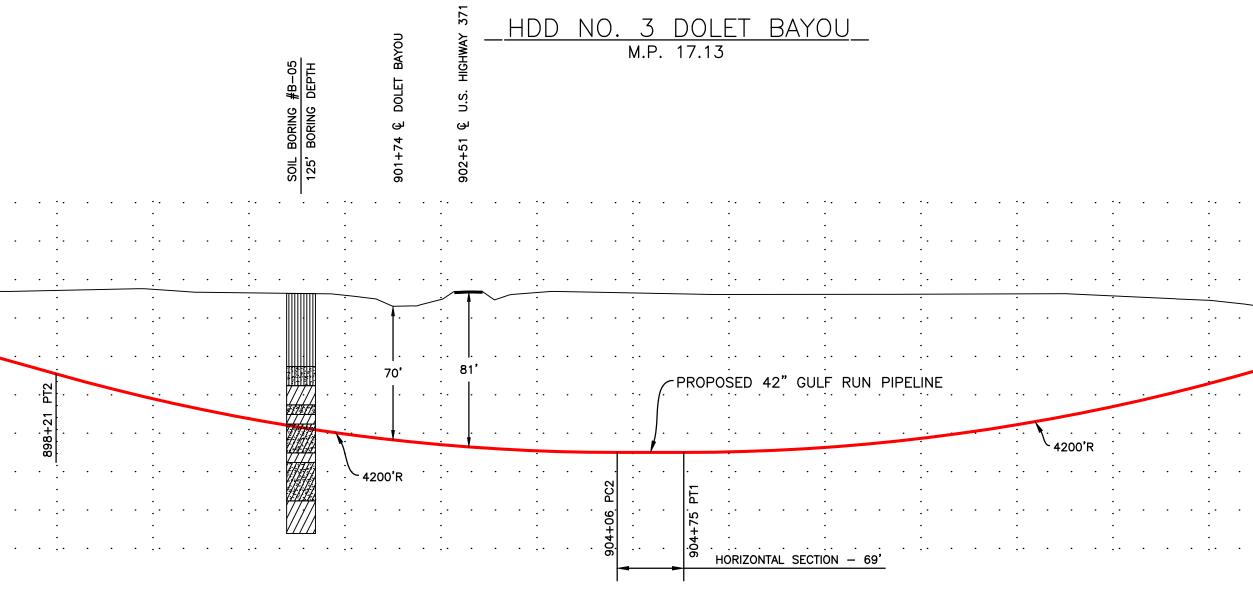
PROPOSED PERMANENT EASEMENT PROPOSED TEMPORARY WORKSPACE EXTRA TEMPORARY WORKSPACE

WETLAND

- 1.) <u>EXCAVATE WITH CAUTIONIII</u> EXACT LOCATIONS OF EXISTING UNDERGROUND PIPES AND UTILITIES ARE UNKNOWN.
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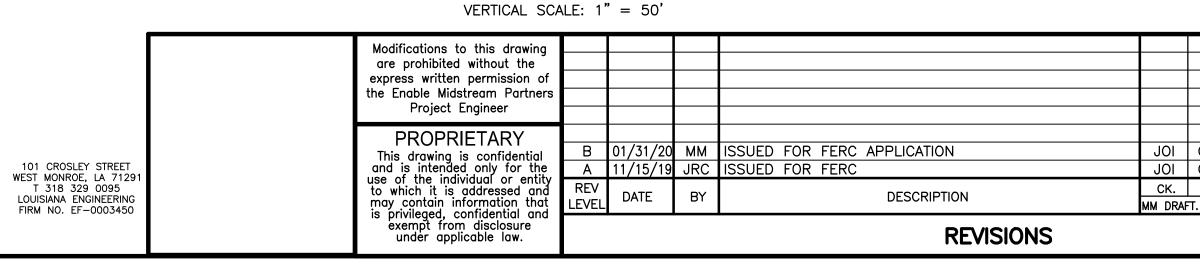
<u>PLAN</u> scale: 1" = 100'



42" O.D. x 0.864" W.T., API-5L-X70, FBE COATED W/ARO HORIZONTAL DISTANCE = 1800' TRUE PIPE LENGTH = 1810'

PROFILE

HORIZONTAL SCALE: 1" = 100'

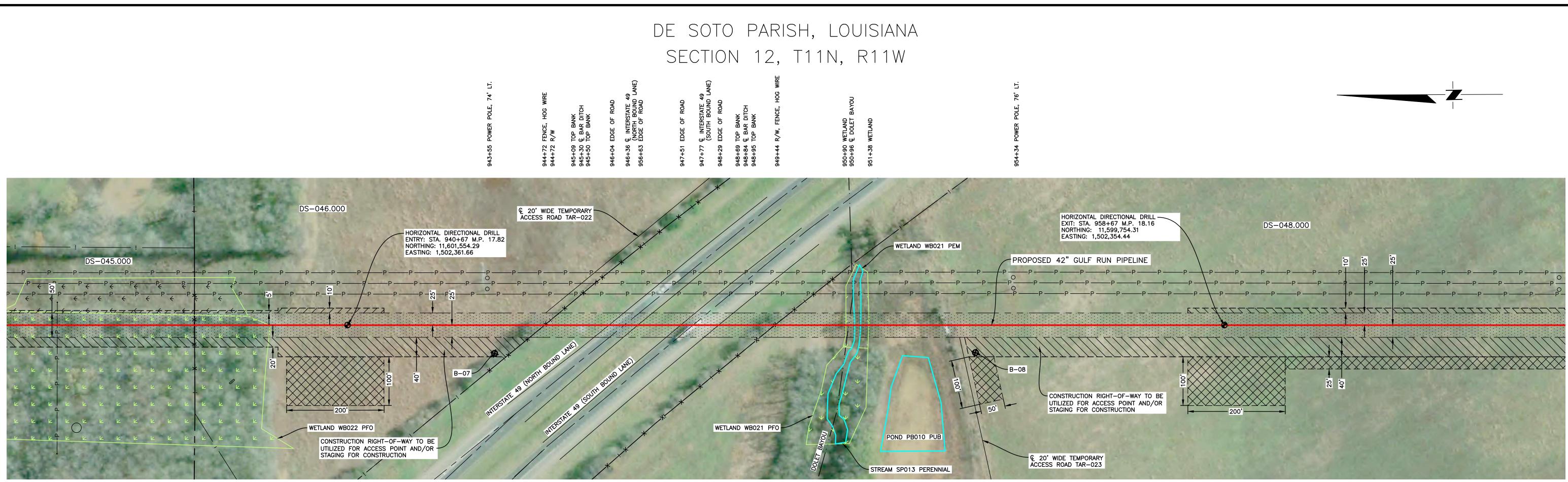


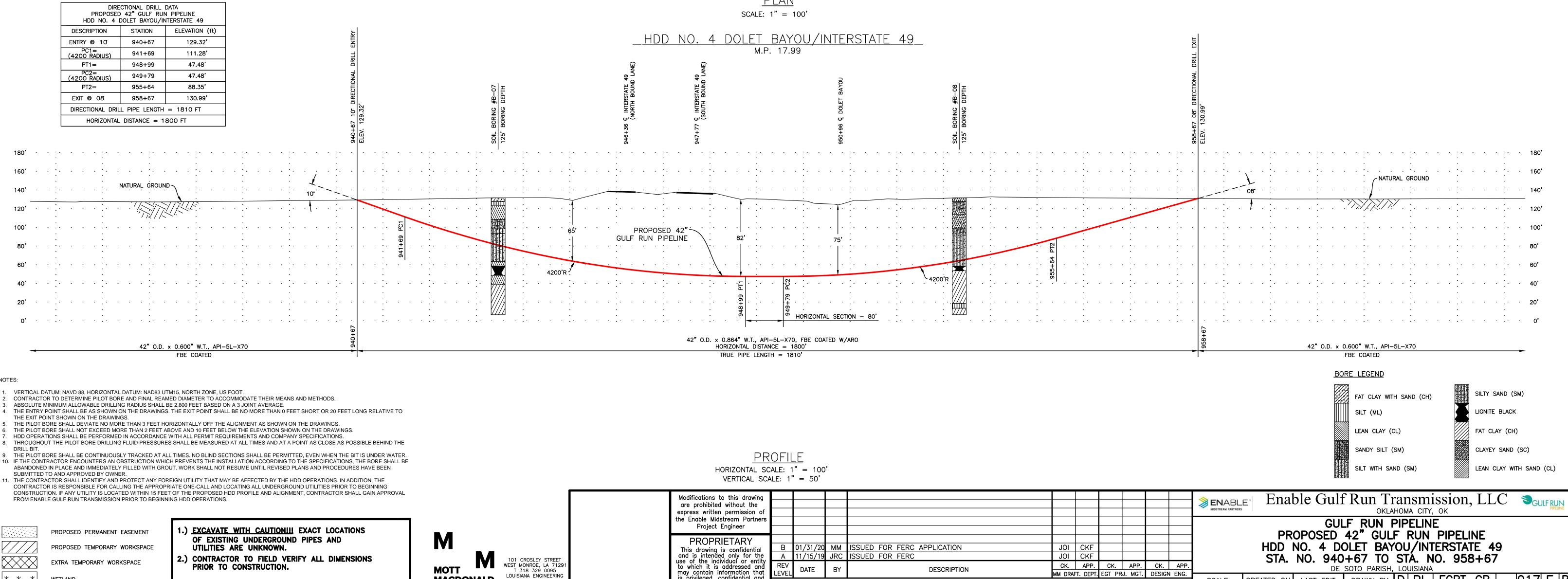
	913+19 10° DIRECTIONAL DRILL ENTRY ELEV. 133.99'	SOIL BORING #B-06 125' BORING DEPTH						
	· · ·	· · · · ·						 180
· · · · · · · · ·	· · · ·		[.] .	[.] .		RAL GROUND	· · · · ·	 160
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	BORE LEGEND	2	
	SILTY CLAY (CL-ML) CLAYEY SAND (SC) FAT CLAY (CH) SILTY SAND		POORLY GRADED SAND WITH SILT (SP-SM) SILT (ML) SILTY CLAY WITH SAND (CL-ML)
f Run	(SM) Transm		n LLC 🔊

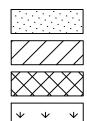
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CKF							HDD N	10. 3 DO	LE	r ba	YOU				
CKF						STA.	NO. 895	+19 TO	ST	A. N	0. 913+19	}			
APP.	СК.	APP.	СК.	APP.		• • • •		SOTO PARISH,							
DEPT.	EGT PR	J. MGT.	DESIGN	I ENG.	SCALE	CREATED ON		DRAWN BY	D	PL	EGRT-GR		016	F	В
					AS NOTED	07/15/19	01/31/20	JRC-MM	SHT SIZE	JOB TYPF	JOB NUMBER		SHEET/ ARFA	REF SHT	R





NOTES:

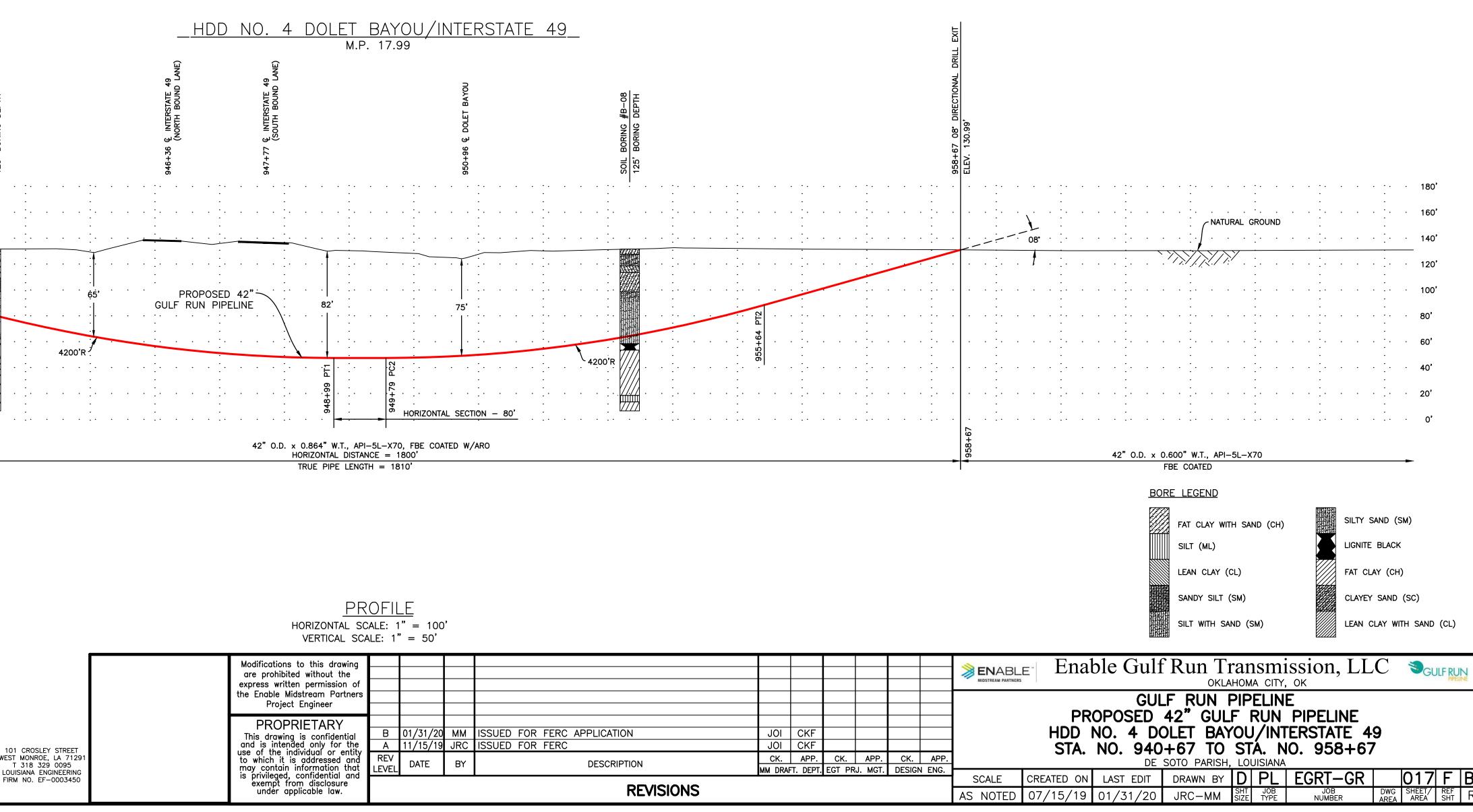
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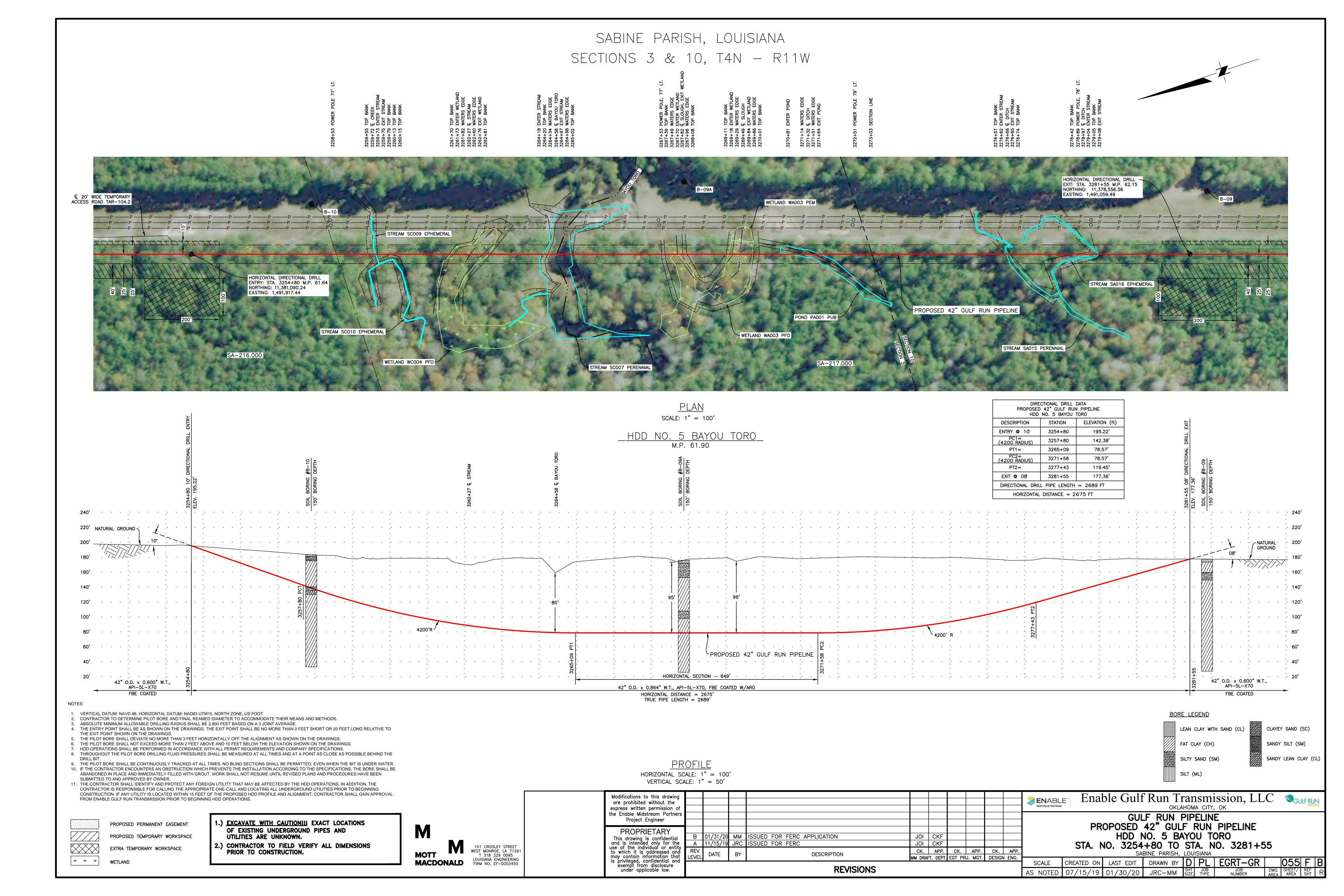


WETLAND



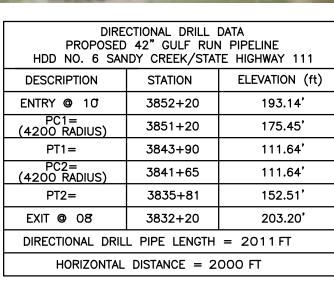
<u>Plan</u>

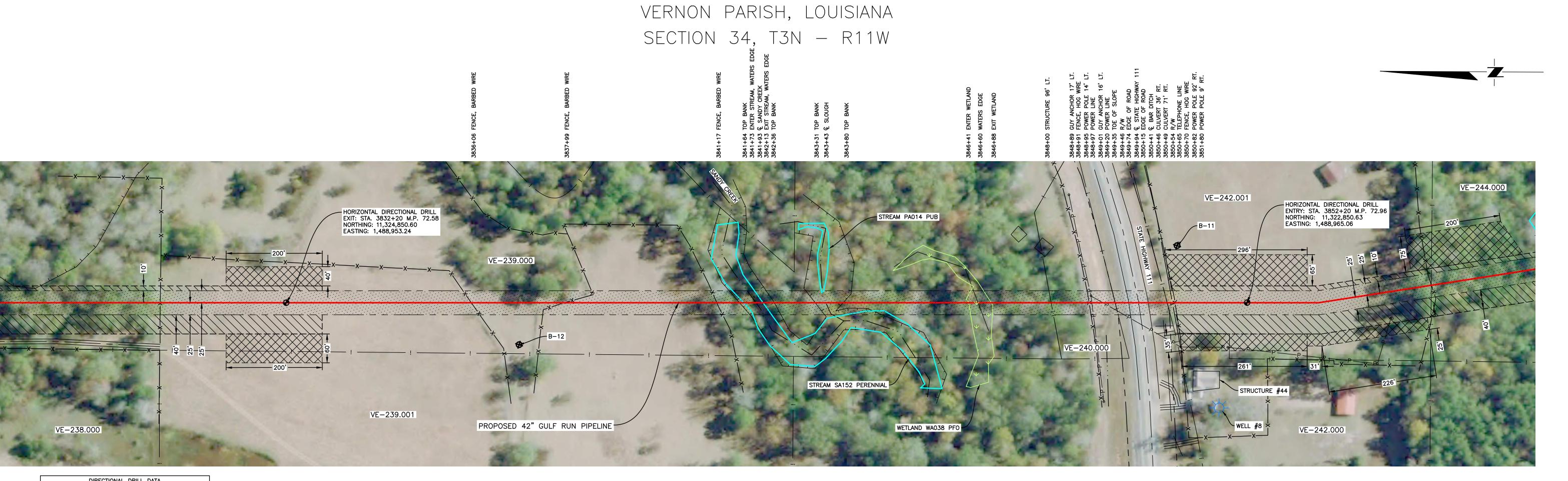




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40' 20' ES: VERTIC CONTR/ ABSOLU THE EN POINT S THE PIL THE PIL HDD OP THROUG THE PIL IF THE CO ABANDO AND AP THE CO RESPON LOCATE	ACTO UTE M ITRY SHOV OT B OT B PERA GHO OT B CONT ONE PRO ONE PRO NSIBI ED W	DR T(MININ POIN VN O BORE BORE TION UT T BORE TRAC D IN I VED ACT(LE F(ITHIN EGIN PI PI	o de Mum NT SI S SH IS SH IS SH IS SH IS SH IS SH IS SH IS SH IS S	TER ALL HE DI ALL I DI ALL I HALL PILOT ALL E CE AI OWN HALL CALLI FEET G HD OSEI	MINE OWA BE / RAWI DEVIA NOT E BE FC BE FC COUN ND IN ER. L IDE NG T I OF D OF D OF	PILC SLE I S SH NGS. TE N XCE ERF E DF NTIF ITER MED NTIF HE A THE I ERA RMA	ONT/ DT BC DRILL OWN O MC ED M DORMI UDOL S AN IATE Y ANII PPROF PROF PROF PROF PROF PROF PROF PRO	AL D. NG F ING F IORE IONE	ATUM AND F RADI THE THAN I ACC LUID TRAC LUID TRAC LUID TRAC COTEC SE HE	1: NA FINA US S DRA PRE CCTIC CT A ONE DD P ENT	FBE AD83 (L REA SHALL WING EET H FEET DANC SSUF DAT DON WH TH GF NY FC -CALL ROFIL	JTM AME BE BSS. 1 HOR ABC E W RES ALL HICH ROU DRE AN	15, N D DIA 2,800 FHE E IZON VVE A ITH A SHAL TIME: I PRE T. WC IGN L D LO ND A	ORTI MET D FEE XIT F TALL ND 1 L BE S. NO VEN DRK S JTILIT CATI LIGN	H ZO ER T T BA POIN Y OF ERM MEA D BLI TS TH SHAL TS TH SHAL TS TH SHAL TS TH SHAL O F UTII	INE, L TO AC ASED IT SH EF TH ET B IT RE ASUR INT RE ASUR INTR CAV	US F(CCOM) ON J IALL E HE AL BELOV EQUIF RED A SECTI NSTAI DT RE MAY I JNDE ONTF ISTI ES	MOE A 3 JG BE NO IGNN W TH REME T AL IONS LLAT IONS BE AI RGRO RGRO RACT	DINT / D MOF MENT / E ELE ENTS / L TIMI SHAL ION A ISHAL ION A IE UN FFECT DUND OR SH ITH UNI E UI	AVER RE TH AS SH VATH AND () ES AN L BE CCOF TIL RI TED E UTIL HALL CAL DER NKN	AGE. IAN 0 I IOWN ON SH COMP. VD AT PERM RDING EVISEI BY THE ITIES I GAIN / JTIOI GROU	NS ANI TEET S ON TH OWN (ANY SF A POIN ITTED, TO TH D PLAN HDD (PRIOR APPRO	D ME SHOR IE DF DN TH PECII SEVE E SP IS AN OPEF TO B VAL EXA PIF	RT OF RAWI HE D FICA' S CLC EN WH PECIF ND PF RATIC BEGIN FRO	201 NGS RAW TION DSE / HEN TICAT ROCI DNS. NNIN M EN	AS PO THE TONS EDUF IN A G CC IABL	3. DSSII BIT I: 3, TH RES F DDIT DIT DIT E GU	BLE E S UNI E BO HAVE ION, ' RUC' LF RI	Behin Der 1 Beei The (Tion. Jn Tf	ID TH WATE HALL N SUE CONT IF AN	E DR R. BE 3MIT RAC ⁻ IY U1	TED TOR	BIT. TO IS Y IS	M	TT		

3832+20 08[•] ELEV. 203.20[•]





FIRM NO. EF-0003450	exempt from disclosure under applicable law.				REVISIONS		
WEST MONROE, LA 71291 T 318 329 0095 LOUISIANA ENGINEERING	to which it is addressed and may contain information that is privileged, confidential and	REV LEVEL	DATE	BY	DESCRIPTION	CK. MM DR/	
101 CROSLEY STREET	This drawing is confidential and is intended only for the use of the individual or entity	Α	11/15/19	JRC	ISSUED FOR FERC	JOI	С
	PROPRIETARY	В	01/31/20	ММ	ISSUED FOR FERC APPLICATION	JOI	c
	Modifications to this drawing are prohibited without the express written permission of the Enable Midstream Partners Project Engineer						

<u>PROFILE</u> HORIZONTAL SCALE: 1" = 100' VERTICAL SCALE: 1" = 50'

	SCA	LE: $1'' = 100'$				
	<u>HDD NO. 6 SANDY</u>	<u>CREEK/STATE HIGHWAY 1</u> m.p. 72.77	11	AY 111	NAL DRIL	
<u>3-12</u> ЛН		M.F. /2.//		Е НСНW	DIRECTIO	
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				33'		180'
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	PROPOSED 42" GULF RUN PIPELINE	60':				· · · · · · · · · · · · · · · · · · ·
· · · · · · · ·	4200'R		4200'R			· · · · · · · · · · · · · · · · · · ·
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		HORIZONTAL SECTION - 225'	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			· · · · · · · · · · · · · · · · · · ·
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· · · · · ·	· · · · · · · · · · · · · · · 42" O.D. × (D.864" W.T., API-5L-X70, FBE COATED W/ARO HORIZONTAL DISTANCE = 2000'			A 3852+	20'
		TRUE PIPE LENGTH = 2011'			I	FBE COATED
						BORE LEGEND

<u>PLAN</u>

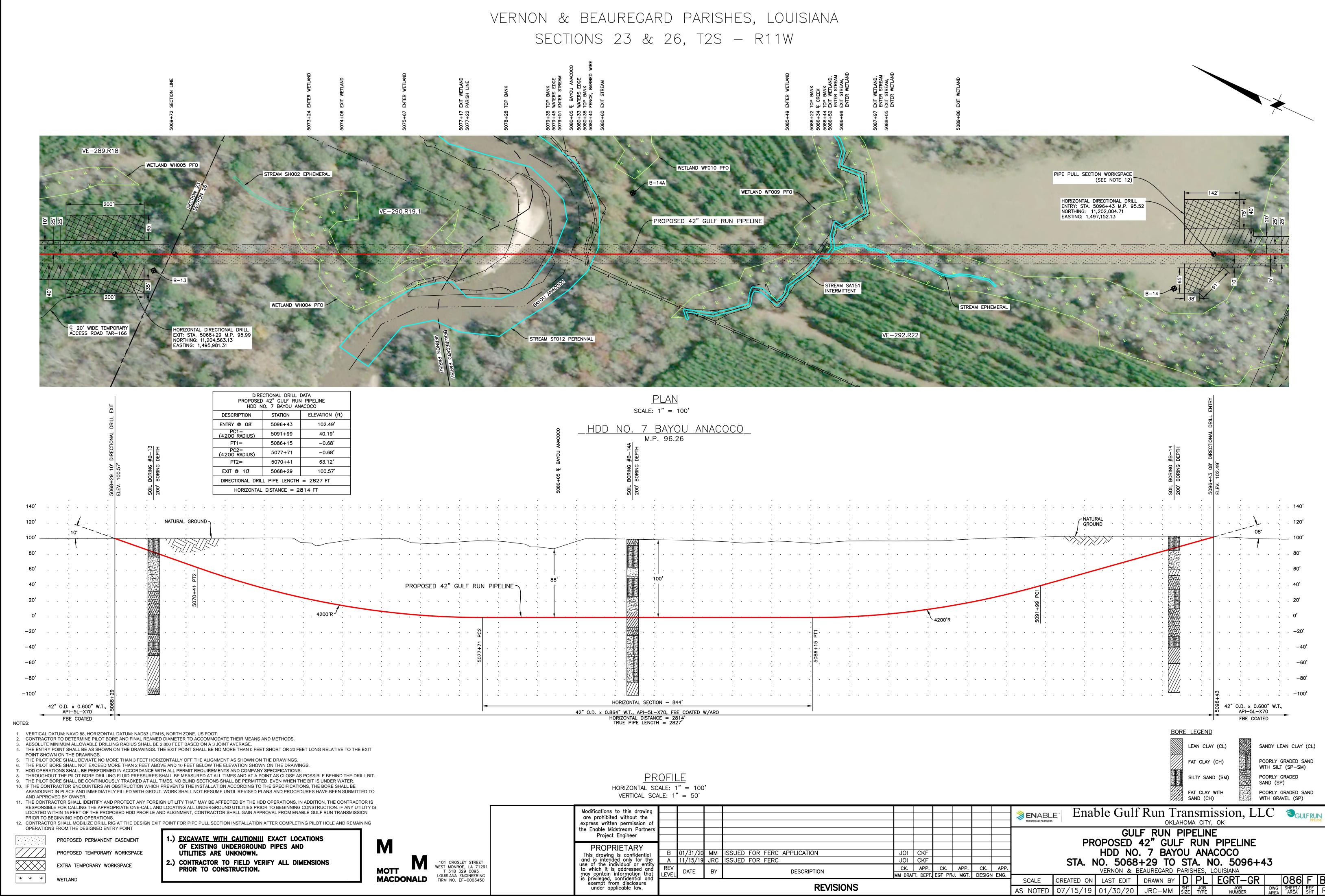
POORLY GRADED SAND WITH SILT (SP–SM) CLAYEY SAND (SC) Enable Gulf Run Transmission, LLC SGULF RUN OKLAHOMA CITY, OK GULF RUN PIPELINE PROPOSED 42" GULF RUN PIPELINE HDD NO. 6 SANDY CREEK/STATE HIGHWAY 111 STA. NO. 3832+20 TO STA. NO. 3852+20 VERNON PARISH, LOUISIANA CREATED ON LAST EDIT DRAWN BY D PL EGRT-GR 065 F B SCALE AS NOTED 07/15/19 01/30/20 JRC-MM SIZE TYPE JOB NUMBER DWG SHEET REF R

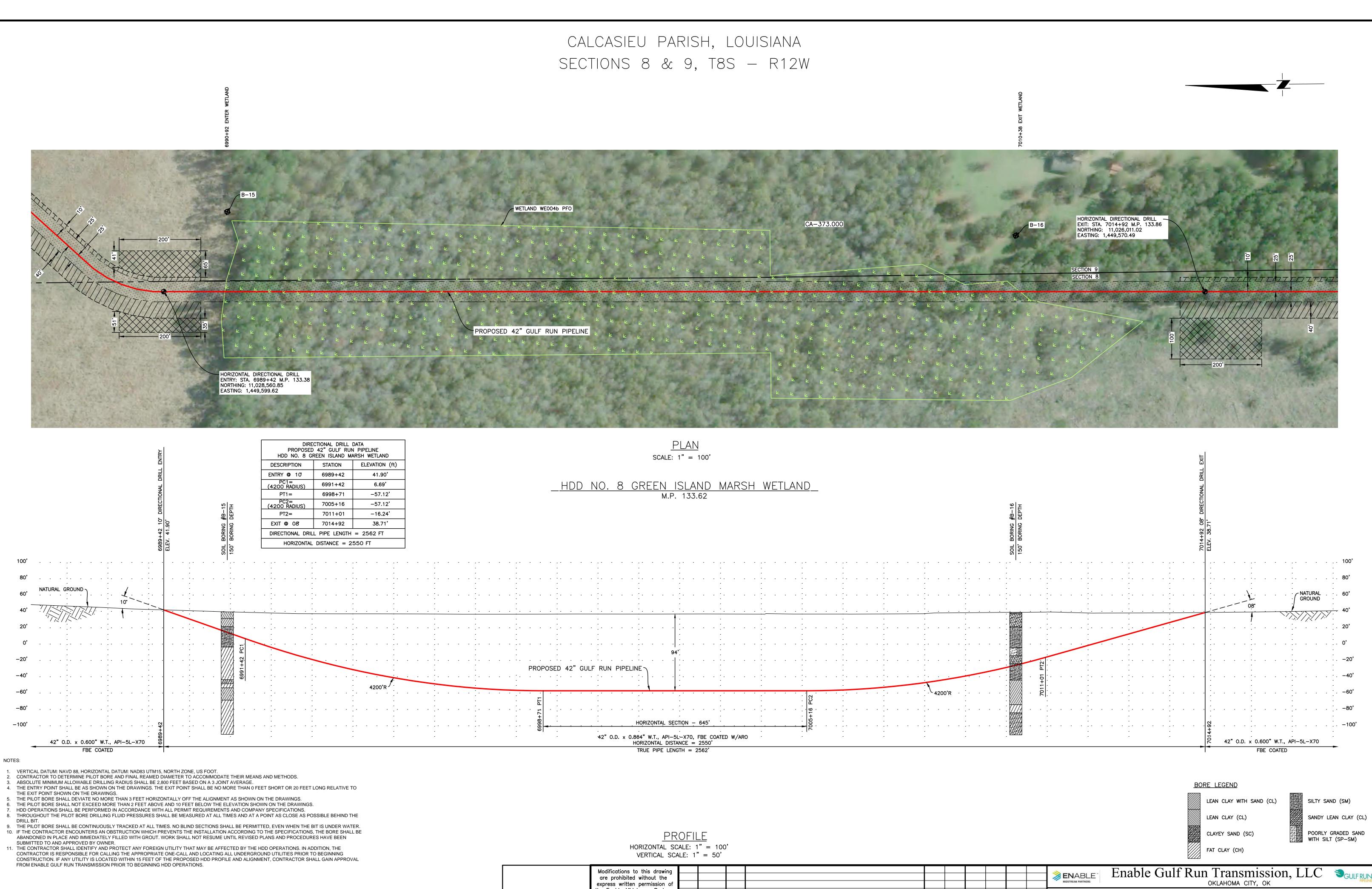
LEAN CLAY WITH SAND (CL)

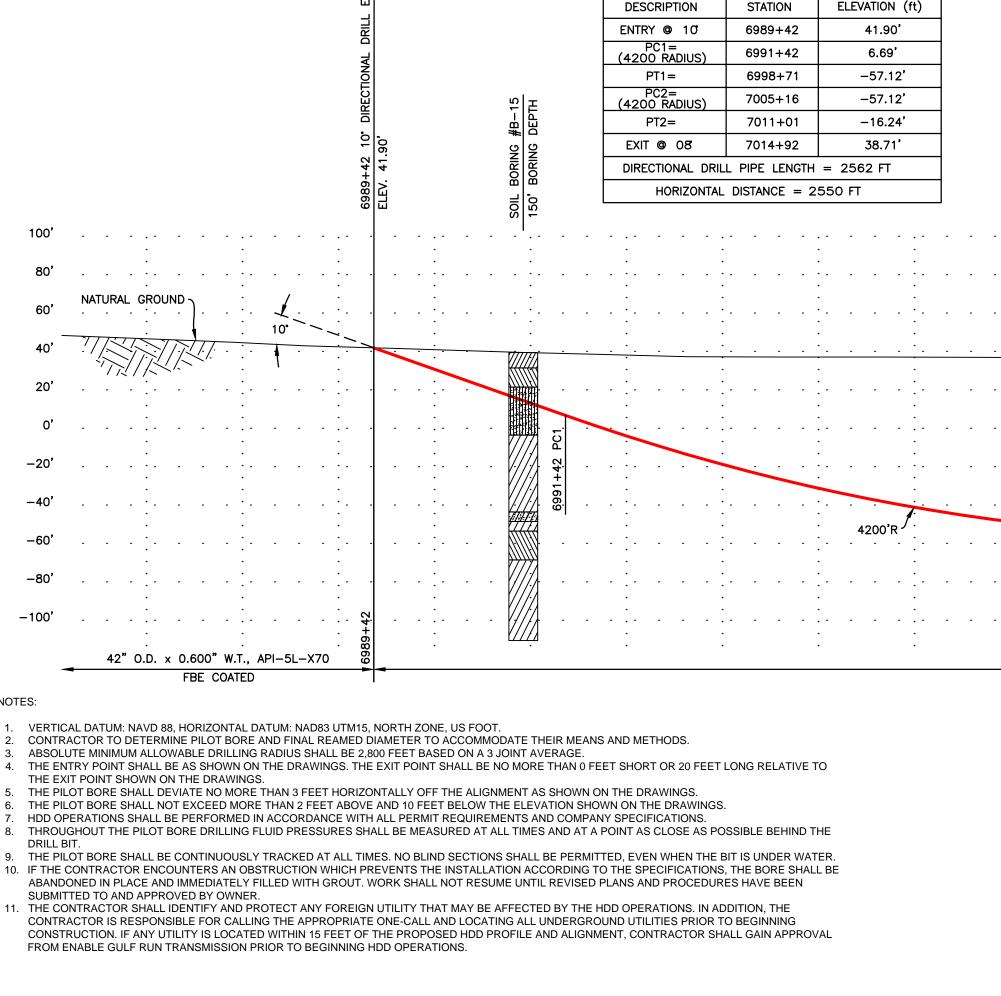
LEAN CLAY (CL)

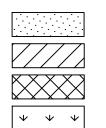
FAT CLAY (CH)

SILTY SAND (SM)









PROPOSED PERMANENT EASEMENT PROPOSED TEMPORARY WORKSPACE EXTRA TEMPORARY WORKSPACE

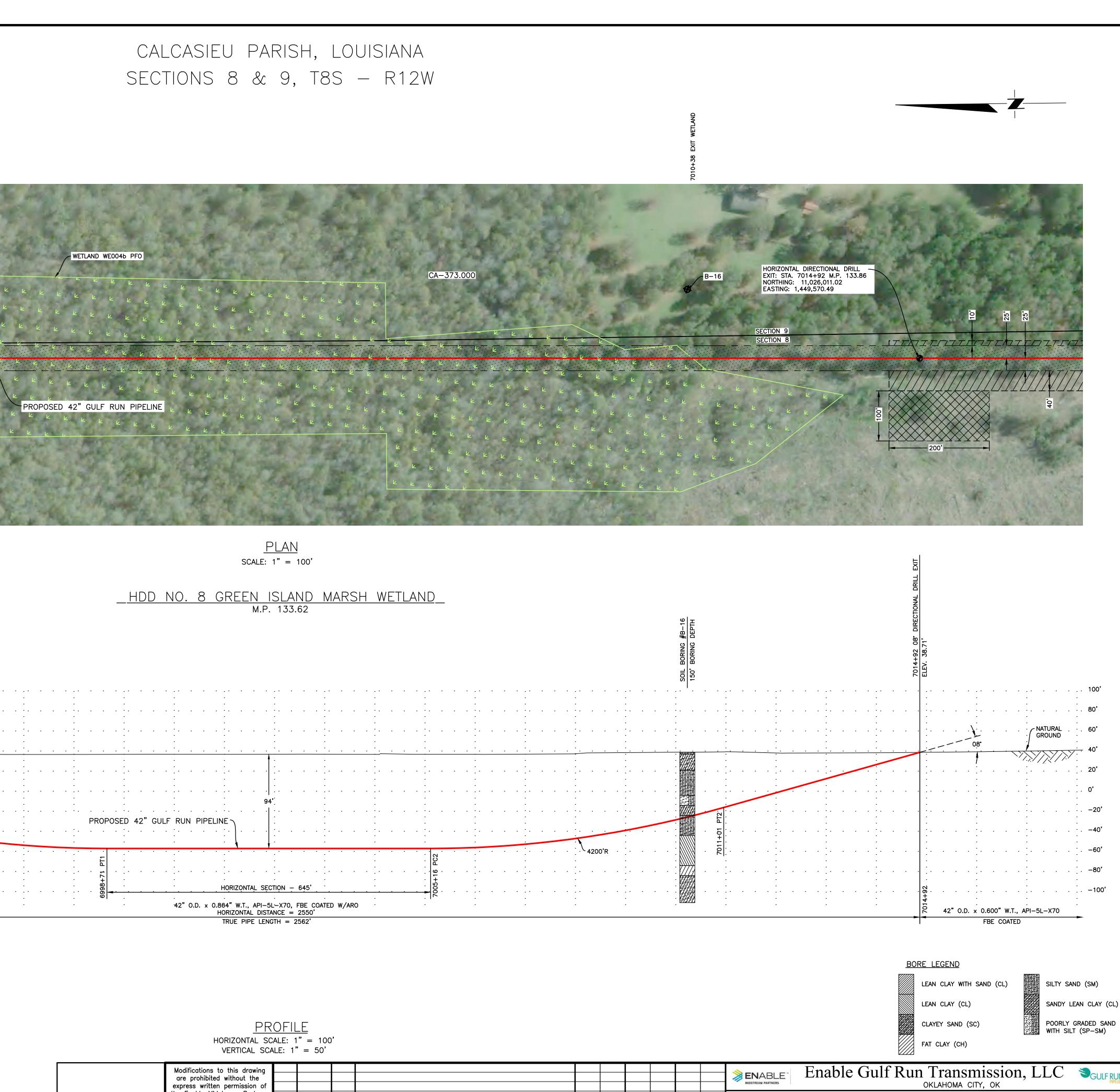
WETLAND

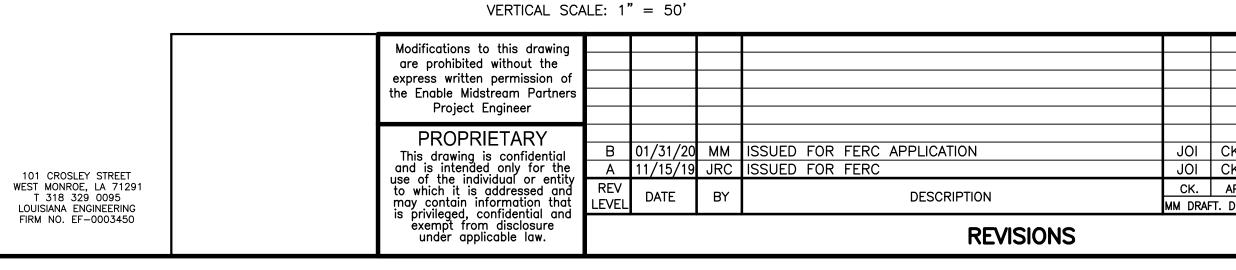
UTILITIES ARE UNKNOWN. 2.) CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.

OF EXISTING UNDERGROUND PIPES AND

1.) EXCAVATE WITH CAUTIONIII EXACT LOCATIONS



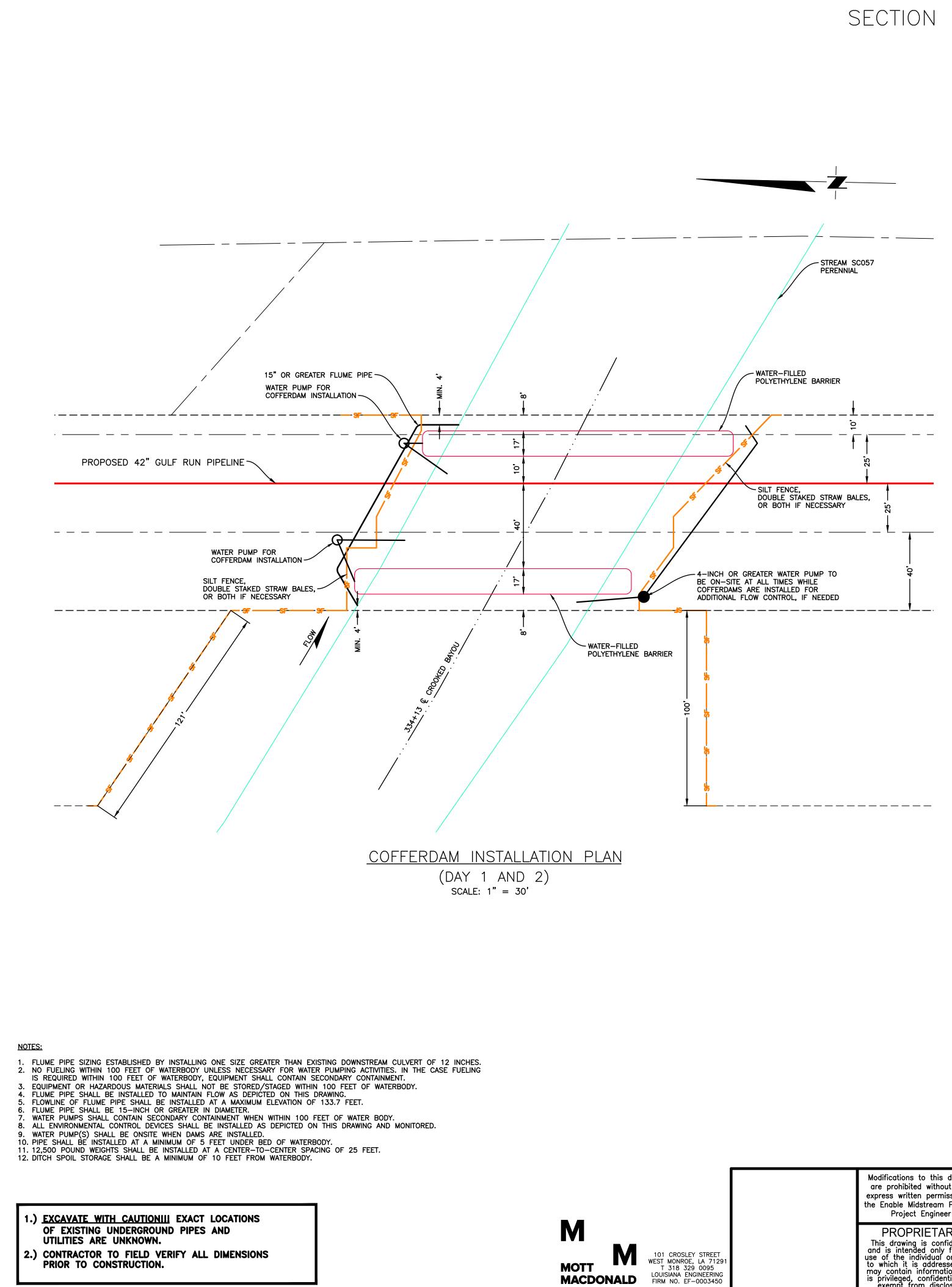




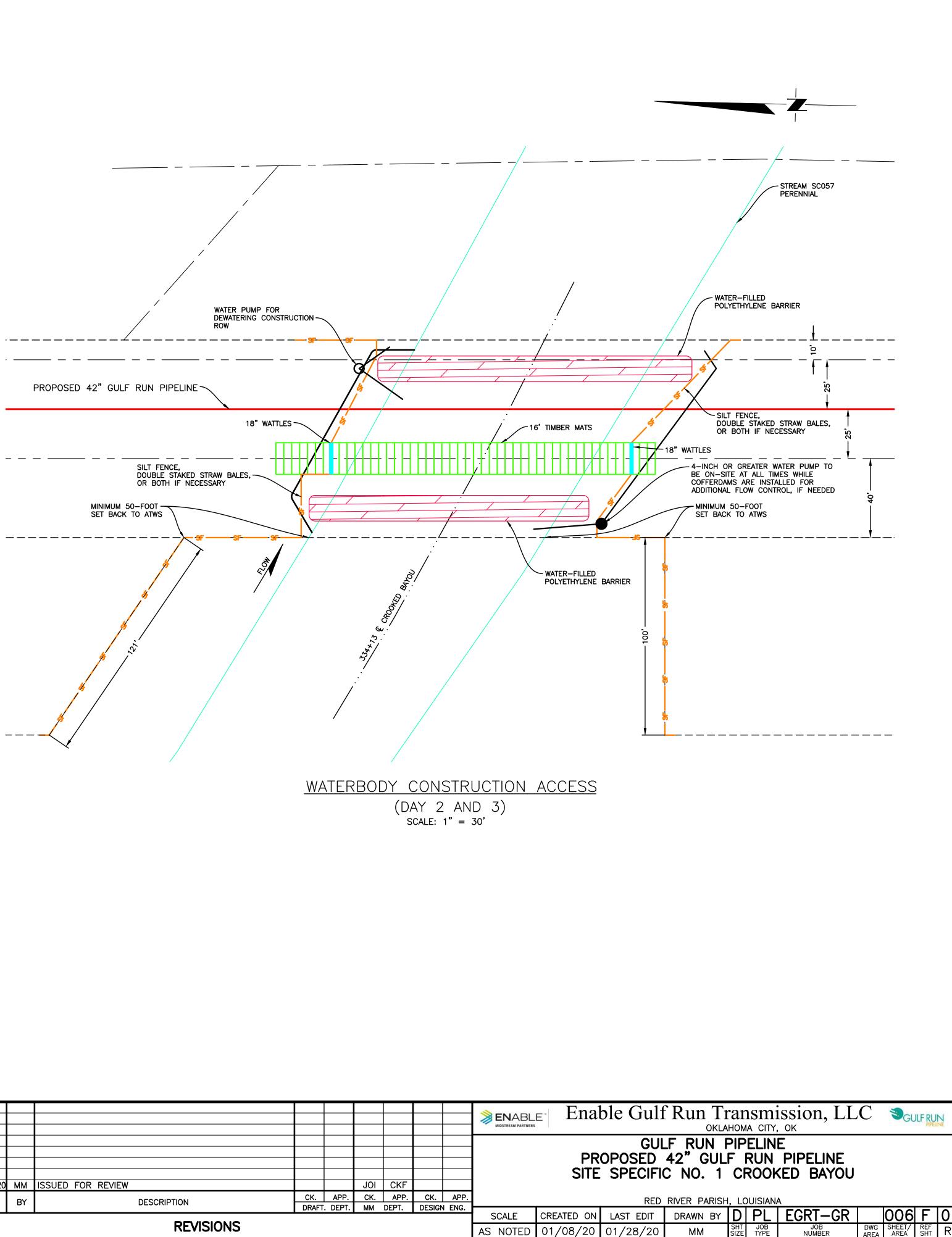
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APP.		APP.	CK.	APP.		0.7.0		ASIEU PARISH							
I. DEPI.	EGI PR	J. MGT.	DESIG	N ENG.	SCALE	CREATED ON	LAST EDIT	DRAWN BY	D	PL	EGRT-GR		119	F	В
					AS NOTED	07/15/19	01/30/20	JRC-MM	SHT SIZE	JOB TYPE	JOB NUMBER	DWG AREA	SHEET/ AREA	REF SHT	R

Individual Permit Application Enable Gulf Run Transmission, LLC Gulf Run Pipeline

Crooked Bayou Crossing Plan

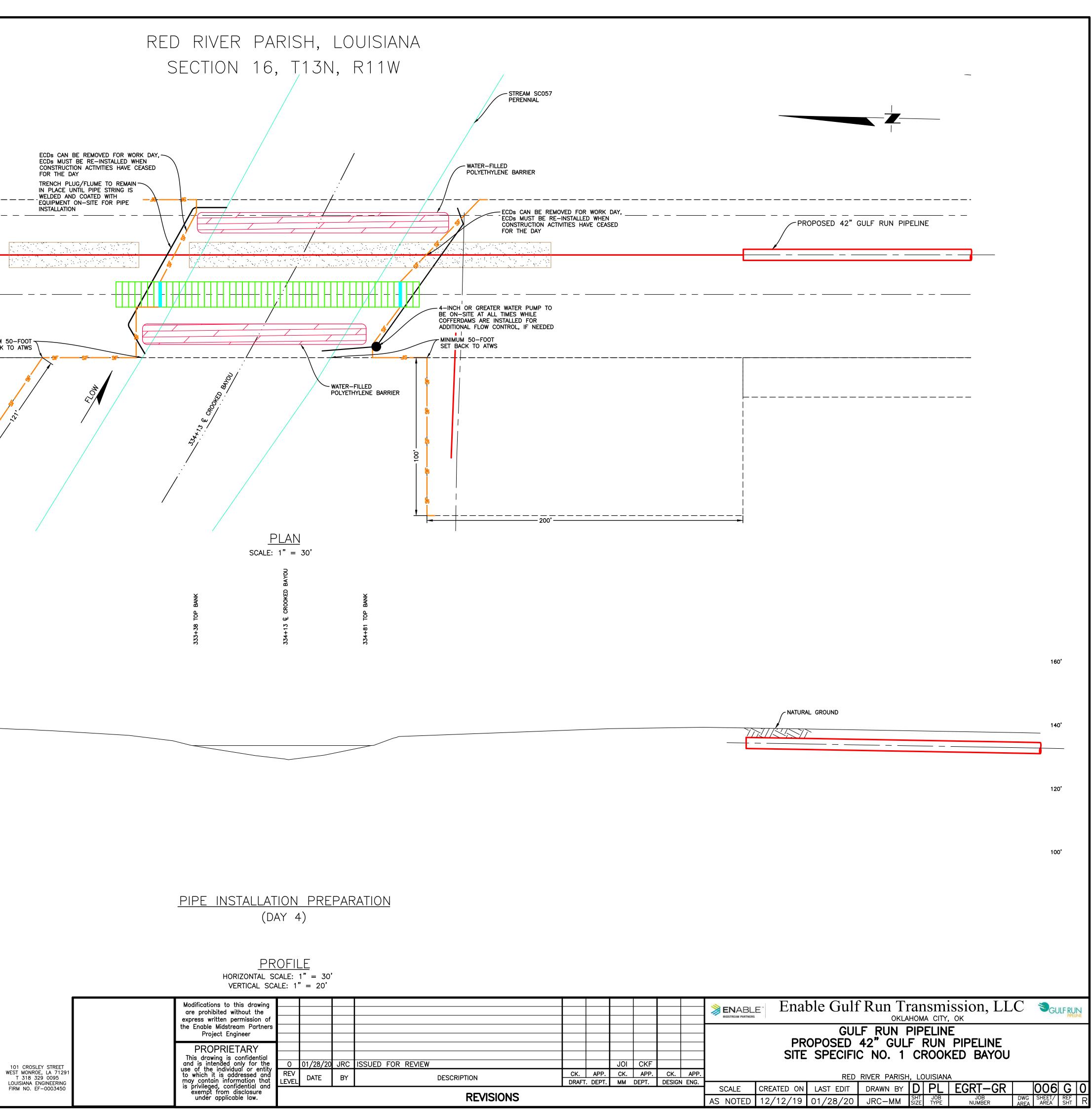


RED RIVER PARISH, LOUISIANA SECTION 16, T13N, R11W

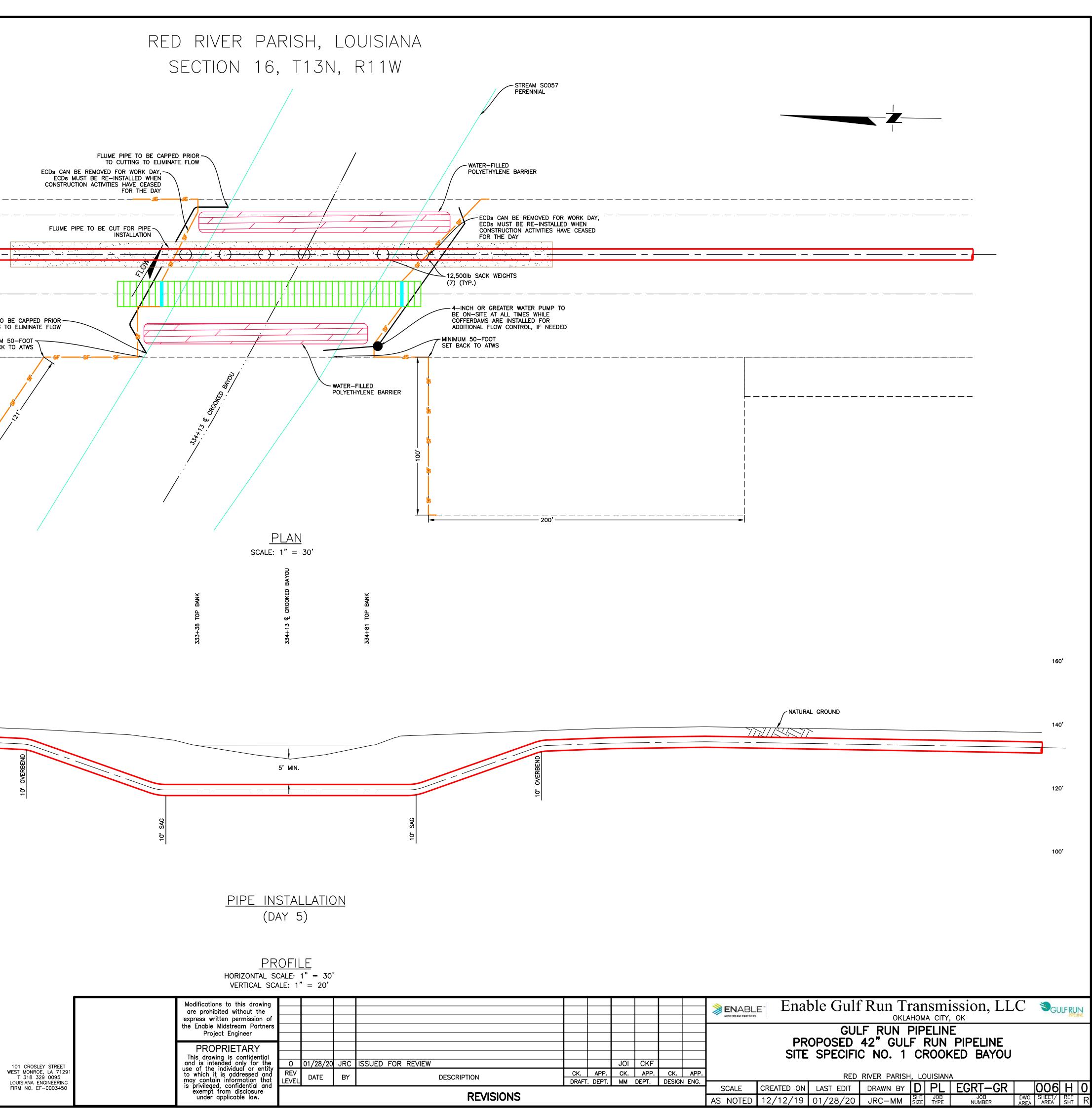


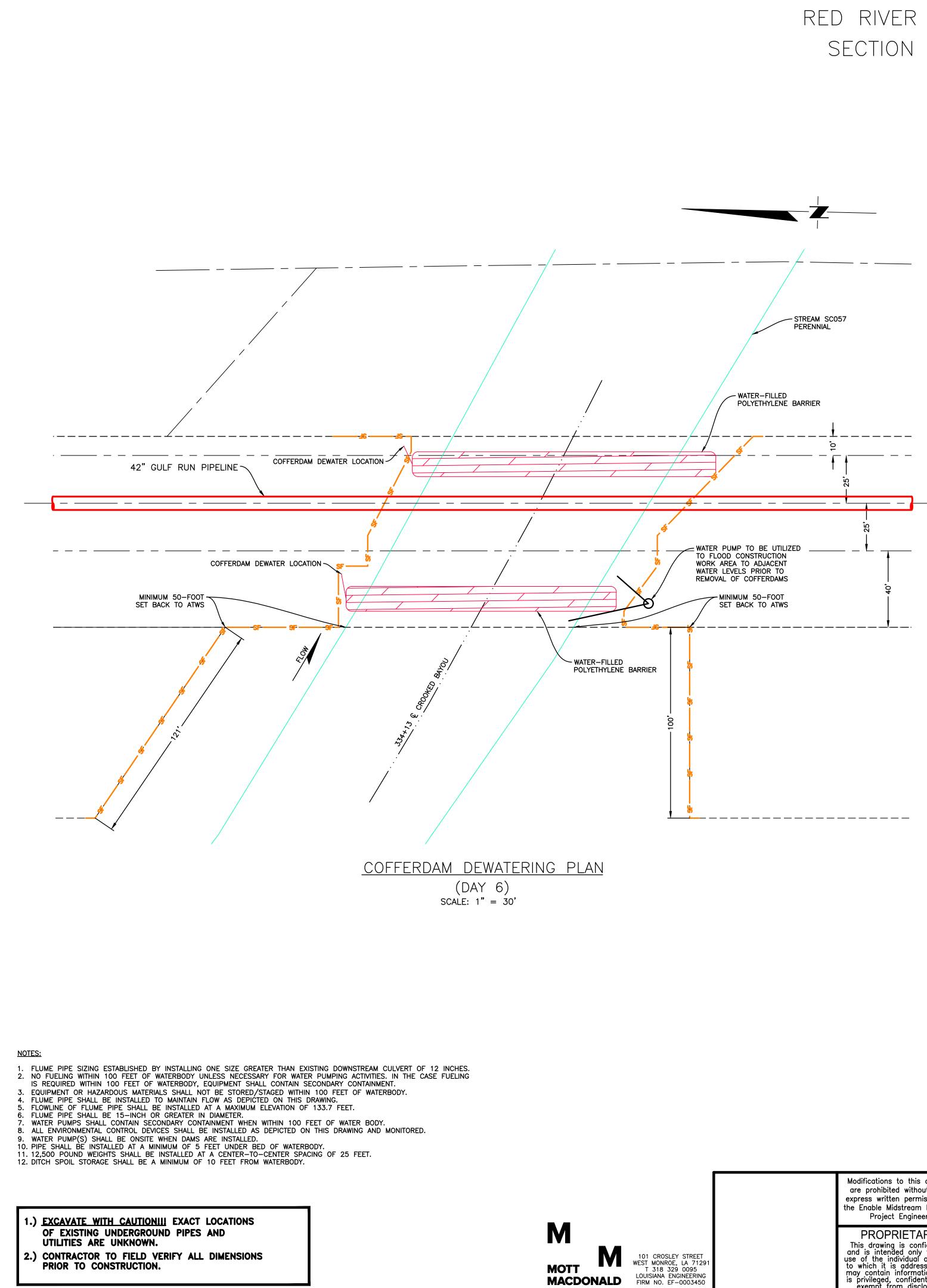
may contain information that is privileged, confidential and	LEVEL	DATE	ВТ	DESCRIPTION	DRAFT.	DE
to which it is addressed and	REV	DATE		DECODIDITION	I UK. I	A
use of the individual or entity						
and is intended only for the	0	01/28/20	MM	ISSUED FOR REVIEW		
PROPRIETARY						
Project Engineer						
are prohibited without the						
Modifications to this drawing						
	express written permission of the Enable Midstream Partners Project Engineer PROPRIETARY This drawing is confidential and is intended only for the use of the individual or entity to which it is addressed and	are prohibited without the express written permission of the Enable Midstream Partners Project Engineer PROPRIETARY This drawing is confidential and is intended only for the use of the individual or entity to which it is addressed and REV	are prohibited without the express written permission of the Enable Midstream Partners Project Engineer PROPRIETARY This drawing is confidential and is intended only for the use of the individual or entity to which it is addressed and REV pute	are prohibited without the express written permission of the Enable Midstream Partners Project Engineer PROPRIETARY This drawing is confidential and is intended only for the use of the individual or entity to which it is addressed and REV DATE	are prohibited without the express written permission of the Enable Midstream Partners Project Engineer PROPRIETARY This drawing is confidential and is intended only for the use of the individual or entity to which it is addressed and REV pure pro-	are prohibited without the express written permission of the Enable Midstream Partners Project Engineer

		RED RIVER PARISH, LOUISIA SECTION 16, T13N, R11V	
	ECDs CAN BE REMOVED F ECDs MUST BE RE-INSTAI CONSTRUCTION ACTIVITIES FOR THE DAY TRENCH PLUG/FLUME TO IN PLACE UNTIL PIPE STR WELDED AND COATED WITH EQUIPMENT ON-SITE FOR INSTALLATION	HAVE CEASED REMAIN ING IS 	WATER-FILLED POLYETHYLENE BARRIER ECDs CAN BE REMO ECDs MUST BE RE-
PROPOSED 42" GULF RUN PIPELINE			
	P MINIMUM 50-FOOT SET BACK TO ATWS	WATER-FILLED BARRI BARRI MATER-FILLED POLYETHYLENE BARRI	4-INCH OR GREATER WATER PUMP TO BE ON-SITE AT ALL TIMES WHILE COFFERDAMS ARE INSTALLED FOR ADDITIONAL FLOW CONTROL, IF NEEDED MINIMUM 50-FOOT SET BACK TO ATWS
		$\frac{PLAN}{SCALE: 1" = 30'}$	200'-
160'		333+38 TOP BANK 334+13 € CROOKED BAYOU 334+13 € CROOKED BAYOU	
140'			
120'			
 NOTES: FLUME PIPE SIZING ESTABLISHED BY INSTALLING ONE SIZE GREATER THAN EXISTING DOWNSTREAM CULVERT OF 12 INCHES. NO FUELING WITHIN 100 FEET OF WATERBODY UNLESS NECESSARY FOR WATER PUMPING ACTIVITIES. IN THE CASE FUELING IS REQUIRED WITHIN 100 FEET OF WATERBODY, EQUIPMENT SHALL CONTAIN SECONDARY CONTAINMENT. EQUIPMENT OR HAZARDOUS MATERIALS SHALL NOT BE STORED/STAGED WITHIN 100 FEET OF WATERBODY. FLUME PIPE SHALL BE INSTALLED TO MAINTAIN FLOW AS DEPICTED ON THIS DRAWING. FLOWLINE OF FLUME PIPE SHALL BE INSTALLED AT A MAXIMUM ELEVATION OF 133.7 FEET. FLUME PIPE SHALL BE 15-INCH OR GREATER IN DIAMETER. WATER PUMPS SHALL CONTAIN SECONDARY CONTAINMENT WHEN WITHIN 100 FEET OF WATER BODY. ALL ENVIRONMENTAL CONTROL DEVICES SHALL BE INSTALLED AS DEPICTED ON THIS DRAWING AND MONITORED. WATER PUMP(S) SHALL BE ONSITE WHEN DAMS ARE INSTALLED. PIPE SHALL BE INSTALLED AT A MINIMUM OF 5 FEET UNDER BED OF WATERBODY. 11. 12,500 POUND WEIGHTS SHALL BE INSTALLED AT A CENTER-TO-CENTER SPACING OF 25 FEET. DITCH SPOIL STORAGE SHALL BE A MINIMUM OF 10 FEET FROM WATERBODY. 		<u>PIPE INSTALLATION PREPARATION</u> (DAY 4) <u>PROFILE</u> HORIZONTAL SCALE: 1" = 30' VERTICAL SCALE: 1" = 20'	
		Modifications to this drawing	
 1.) <u>EXCAVATE WITH CAUTIONIII</u> EXACT LOCATIONS OF EXISTING UNDERGROUND PIPES AND UTILITIES ARE UNKNOWN. 2.) CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. 	MOTT MOTTALD MACDONALD	Project Engineer PROPRIETARY This drawing is confidential and is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law.	OR REVIEW DESCRIPTION REVISIONS

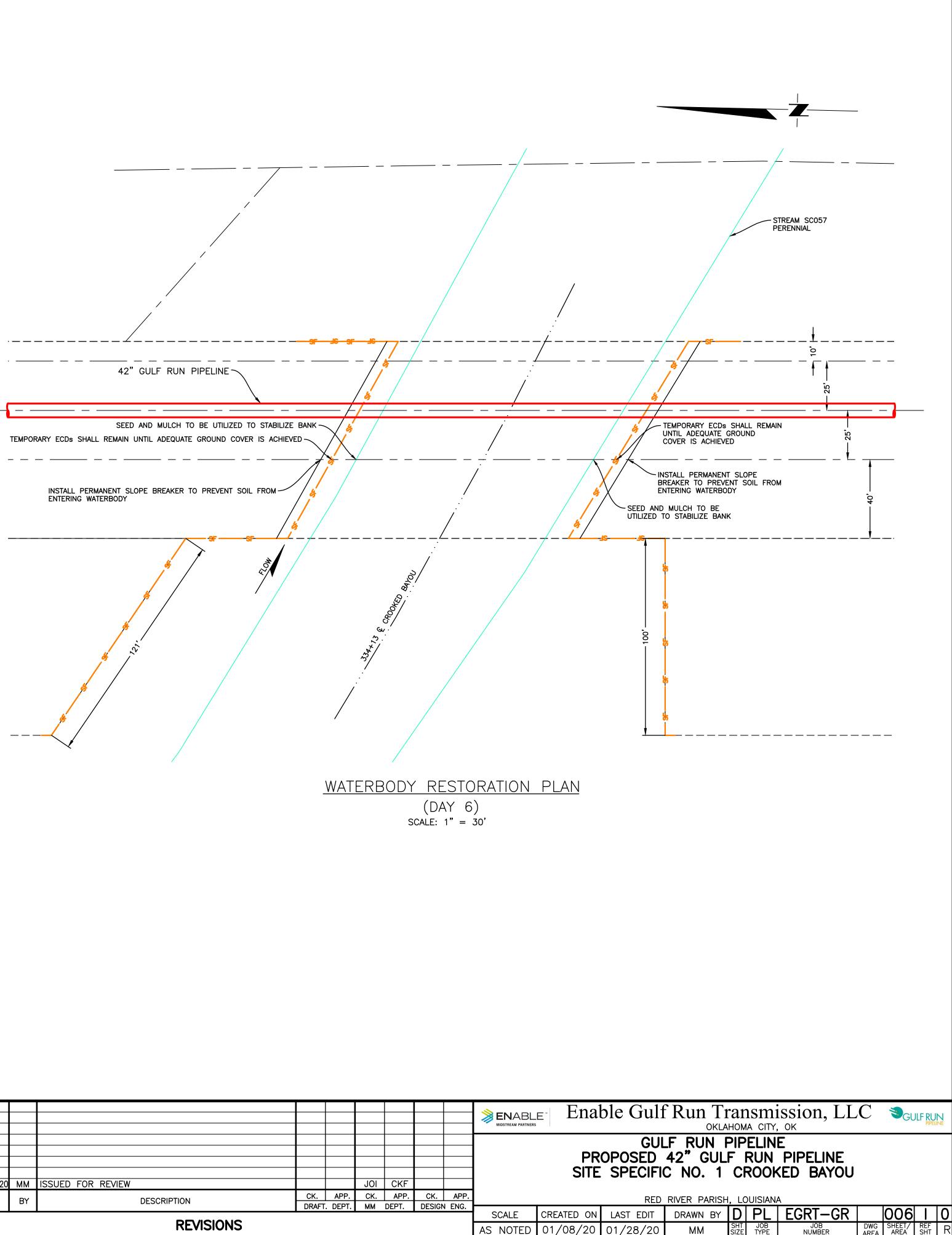


		42" GULF RUN PIPELIN		<u>¥</u> _ _ _ <u> </u> _		· <u> </u>
				22 		
						FLUMI TO
						*
					*	
160'						
		NATURAL GROUND	V			
140'						
			PROPOSFI	D 42" GULF RUN		
120'						
100'						
<u>ES:</u> FLUME PIPE SIZING ESTABLISHE NO FUELING WITHIN 100 FEET (IS REQUIRED WITHIN 100 FEET	OF WATERBODY UNLESS NE	: GREATER THAN EXISTING DO CESSARY FOR WATER PUMPIN T SHALL CONTAIN SECONDARY	IG ACTIVITIES. IN THE CA	12 INCHES. ASE FUELING		
\mathbf{S} NEWOINED WITTIN TOO TEET		DRED/STAGED WITHIN 100 FE	T OF WATERBODY			





RED RIVER PARISH, LOUISIANA SECTION 16, T13N, R11W



. EF-0003450		exempt from disclosure under applicable law.		REVISIONS				
DSLEY STREET NROE, LA 71291 3 329 0095 A ENGINEERING This drawing is con and is intended on use of the individual to which it is addre may contain information in privilaged confident	is intended only for the of the individual or entity hich it is addressed and contain information that rivileged, confidential and	REV LEVEL	DATE	BY	DESCRIPTION	CK. DRAFT.	_	
		0	01/28/20	ММ	ISSUED FOR REVIEW			
	PROPRIETARY							
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are prohi express w the Enable	Enable Midstream Partners Project Engineer						_	
	expre	are prohibited without the express written permission of						_
		ifications to this drawing						