

## **APPENDIX A**

### **EXHIBITS**

**Exhibit 1 – Vicinity Map**

**Exhibit 2 – Site Location Map**

**Exhibit 3 – Topographic Map, 1998**

**Exhibit 4 – Aerial Photograph, 2013**

**Exhibit 5 – Soils Map**

**Exhibit 6 – Floodplain Map**

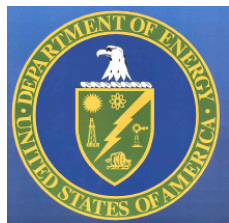
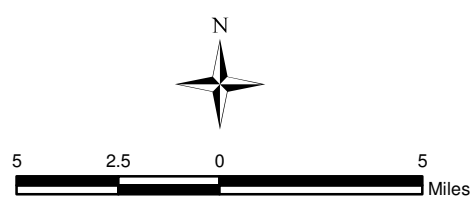
**Exhibit 7 – National Wetlands Inventory (NWI) Map**

**Exhibit 8 – Project Design Layout**



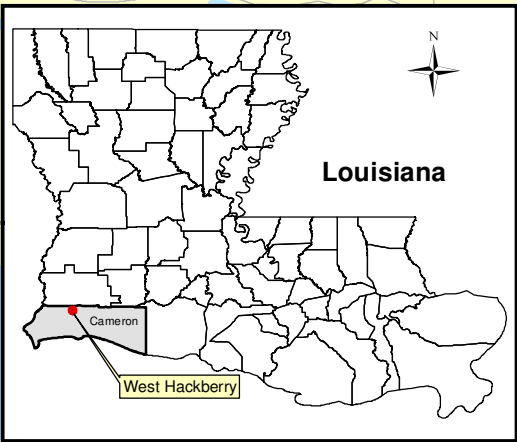
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SOURCE: ESRI StreetMap USA



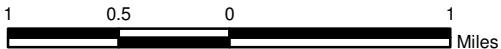
## EXHIBIT 1 VICINITY MAP

Brine Disposal Pipeline Replacement Project  
West Hackberry, Strategic Petroleum Reserve  
Cameron Parish, Louisiana



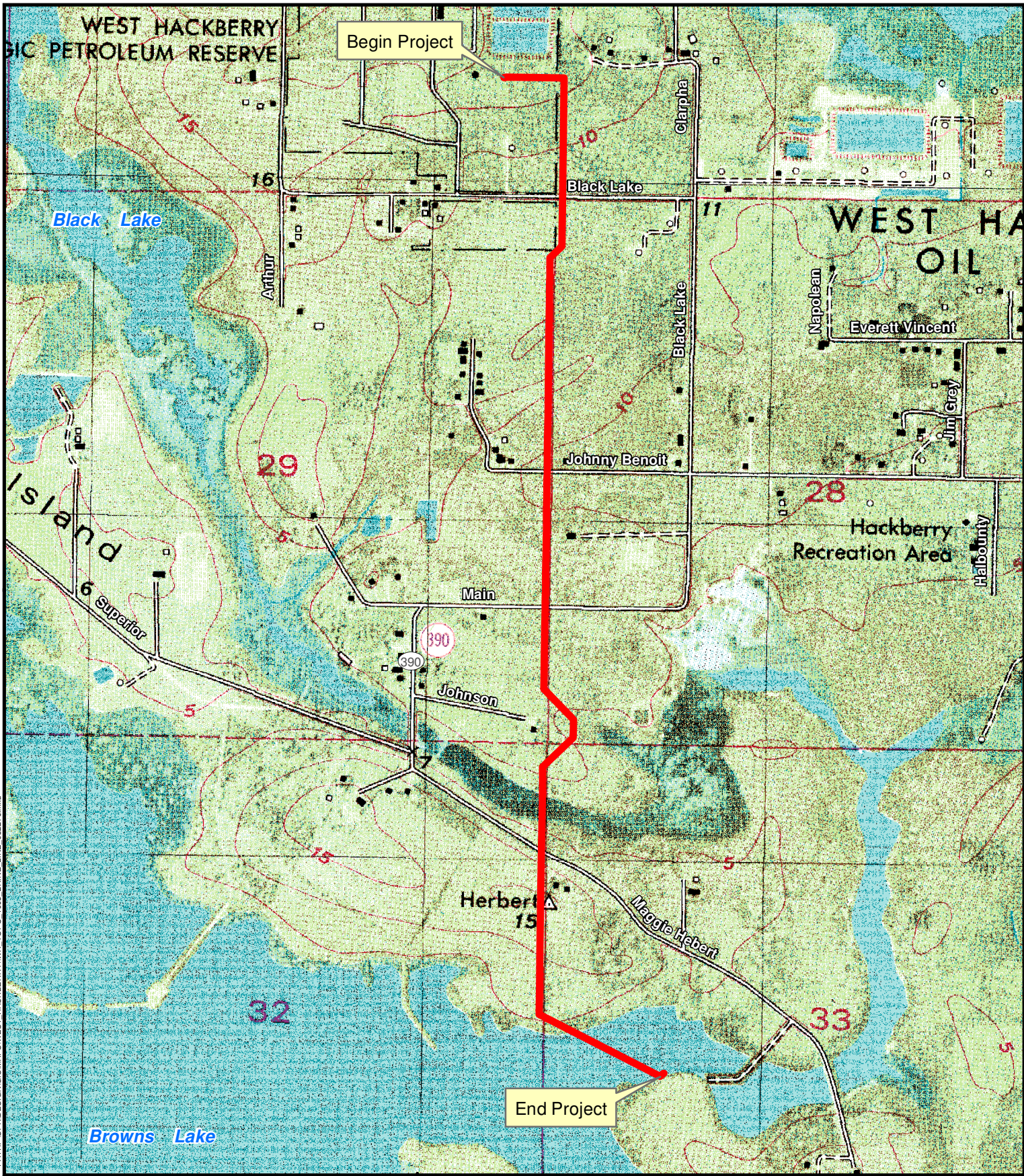
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SOURCE: ESRI StreetMap USA



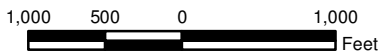
## EXHIBIT 2 SITE LOCATION MAP

Brine Disposal Pipeline Replacement Project  
West Hackberry, Strategic Petroleum Reserve  
Cameron Parish, Louisiana



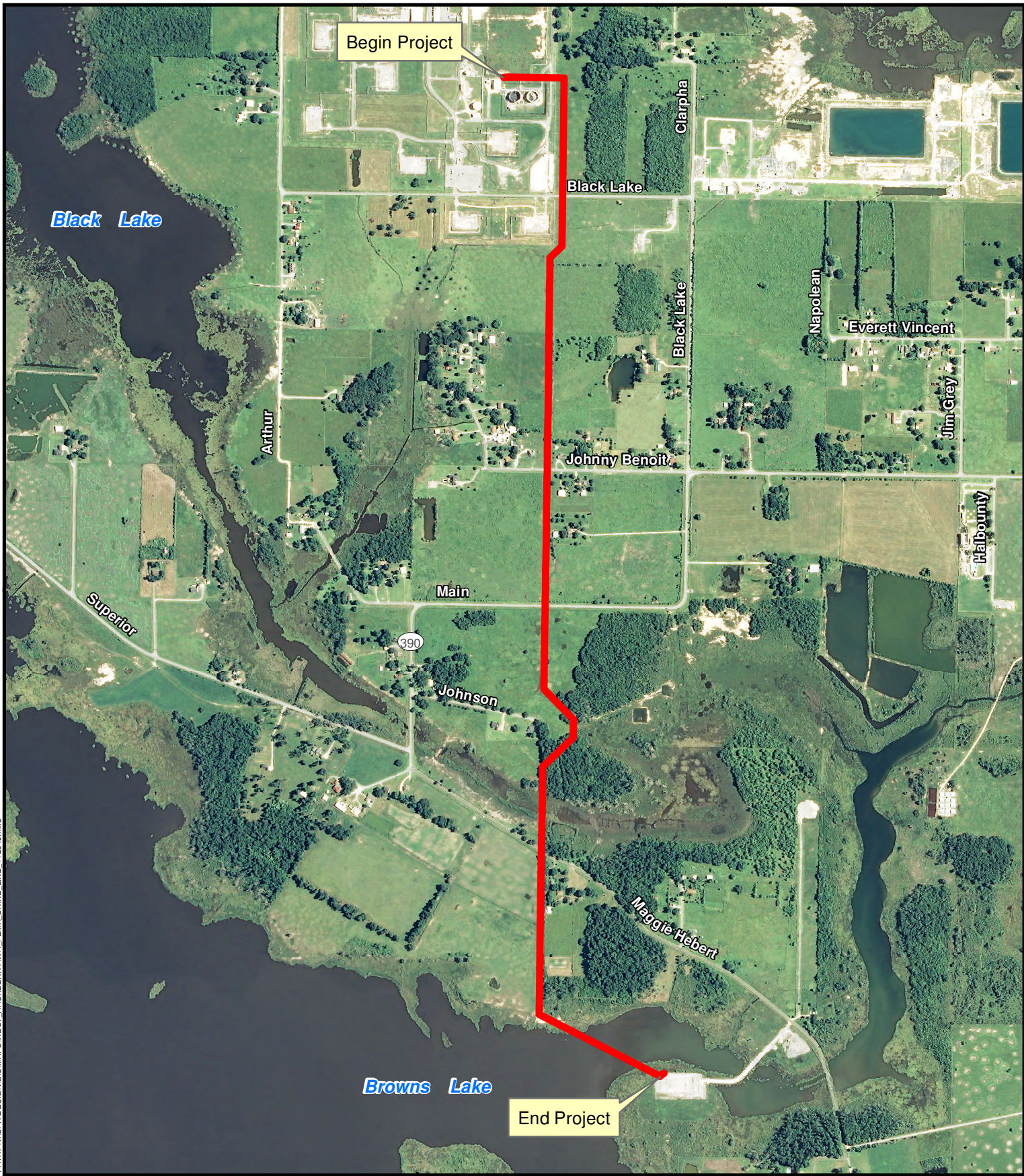
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SOURCE: USGS, Browns Lake, 7.5 Minute Topographic Quadrangle, 1998



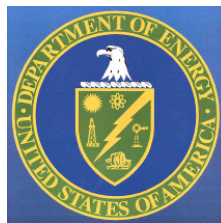
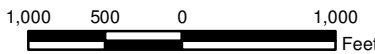
### EXHIBIT 3 TOPOGRAPHIC MAP, 1998

Brine Disposal Pipeline Replacement Project  
West Hackberry, Strategic Petroleum Reserve  
Cameron Parish, Louisiana



PATH: N:\SPR\DESIGN\GIS\MAPS\WEST HACKBERRY\WH\_FEMA\_BRINE\_LINE\_11.2816.mxd

SOURCE: USDA-NAIP, 2013



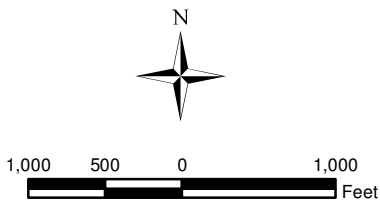
## EXHIBIT 4 AERIAL PHOTOGRAPH, 2013

Brine Disposal Pipeline Replacement Project  
West Hackberry, Strategic Petroleum Reserve  
Cameron Parish, Louisiana



PATH: I:\SPRDESIGN\GIS\MAPS\WEST HACKBERRY\WH SOILS BRINE LINE 032216.mxd

SOURCE: USDA (SSURGO), 2015  
USDA-NAIP, 2013



## EXHIBIT 5 SOILS MAP

Brine Disposal Pipeline Replacement Project  
West Hackberry, Strategic Petroleum Reserve  
Cameron Parish, Louisiana

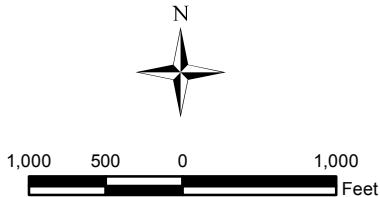


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**LEGEND**

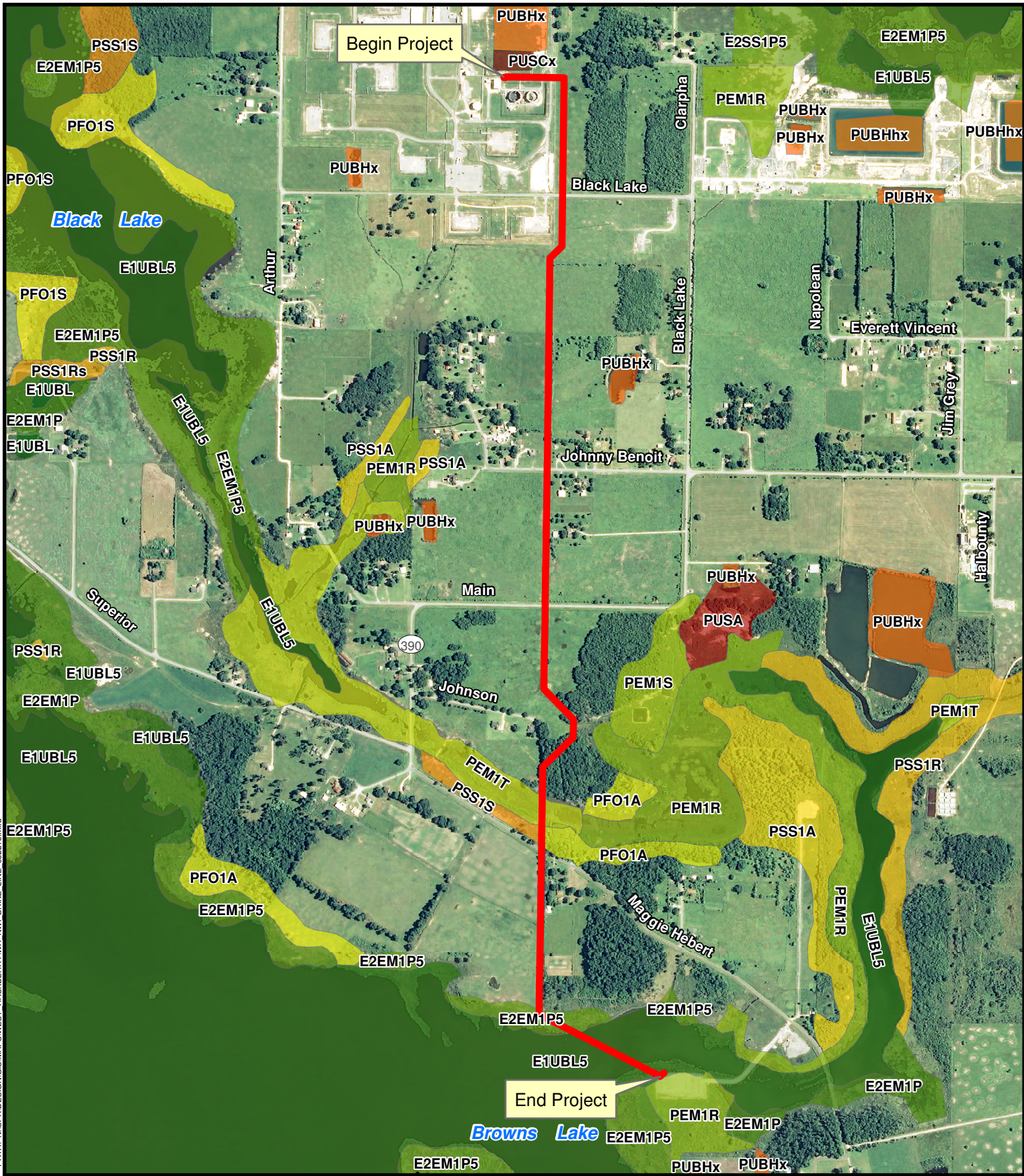
- Proposed Project
- Flood Hazard Zones**
- 1% Annual Chance Flood Hazard
- Area of Undetermined Flood Hazard
- 0.2% Annual Chance Flood Hazard

SOURCE: FEMA 11/16/2012, Panel No. 22023C0375H  
USDA-NAIP, 2013



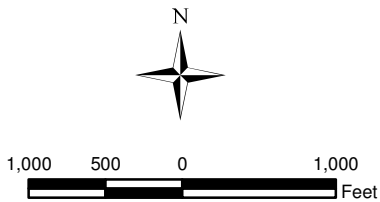
## EXHIBIT 6 FLOODPLAIN MAP

Brine Disposal Pipeline Replacement Project  
West Hackberry, Strategic Petroleum Reserve  
Cameron Parish, Louisiana



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SOURCE: National Wetlands Inventory (NWI), 11-1988  
USDA-NAIP, 2013

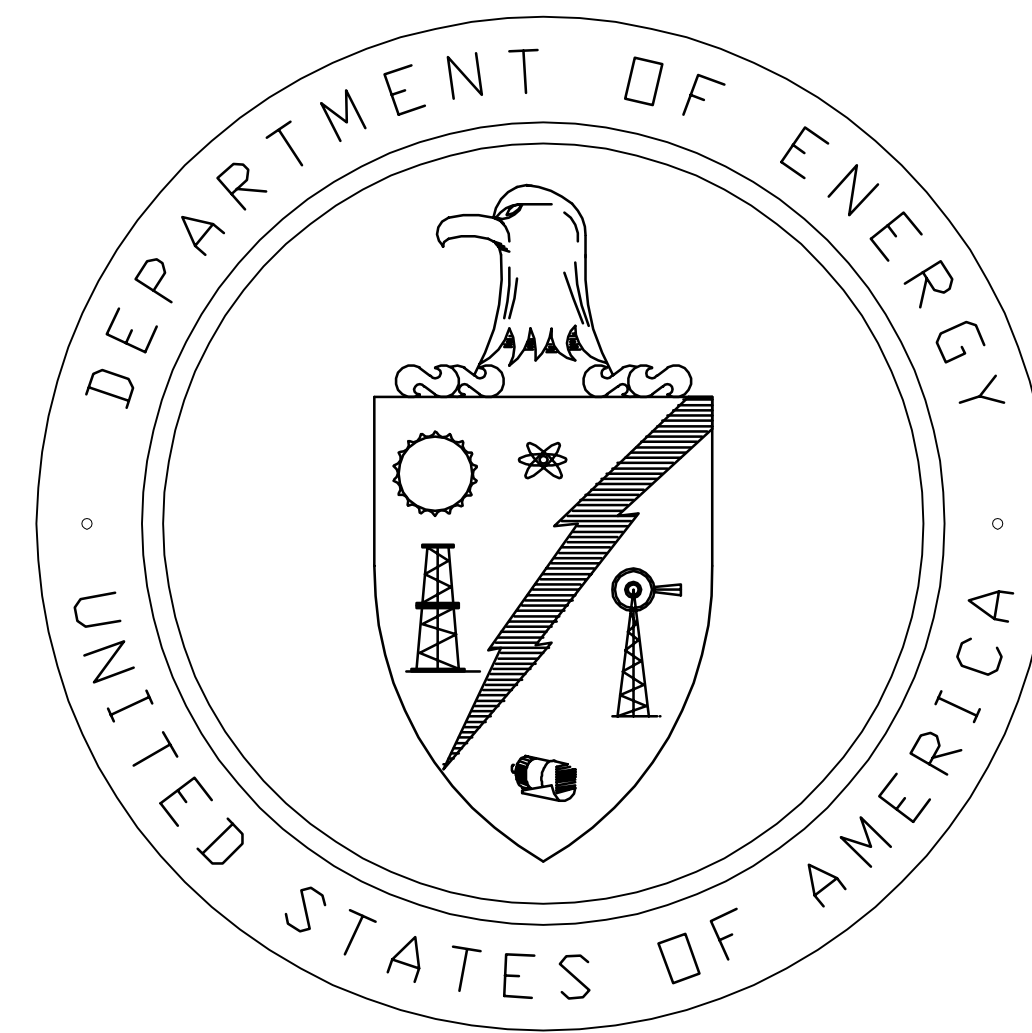


## EXHIBIT 7 NATIONAL WETLANDS INVENTORY

Brine Disposal Pipeline Replacement Project  
West Hackberry, Strategic Petroleum Reserve  
Cameron Parish, Louisiana



# U. S. DEPARTMENT OF ENERGY STRATEGIC PETROLEUM RESERVE

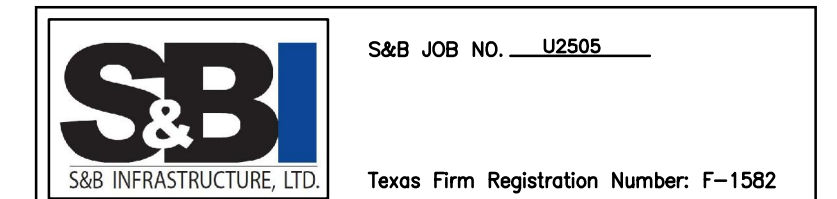


## REPLACE 24" BRINE DISPOSAL PIPELINE INSTALL TASK NO. WH-MM-826

### WEST HACKBERRY CAMERON PARISH, LOUISIANA



ISSUED FOR REFERENCE  
IN TASK NO. WH-MM-826



REPLACE 24" BRINE DISPOSAL PIPELINE INSTALL

TITLE SHEET

WEST HACKBERRY  
CAMERON PARISH, LOUISIANA

OFFICE OF SYSTEMS  
AND PROJECTS



STRATEGIC  
PETROLEUM  
RESERVE

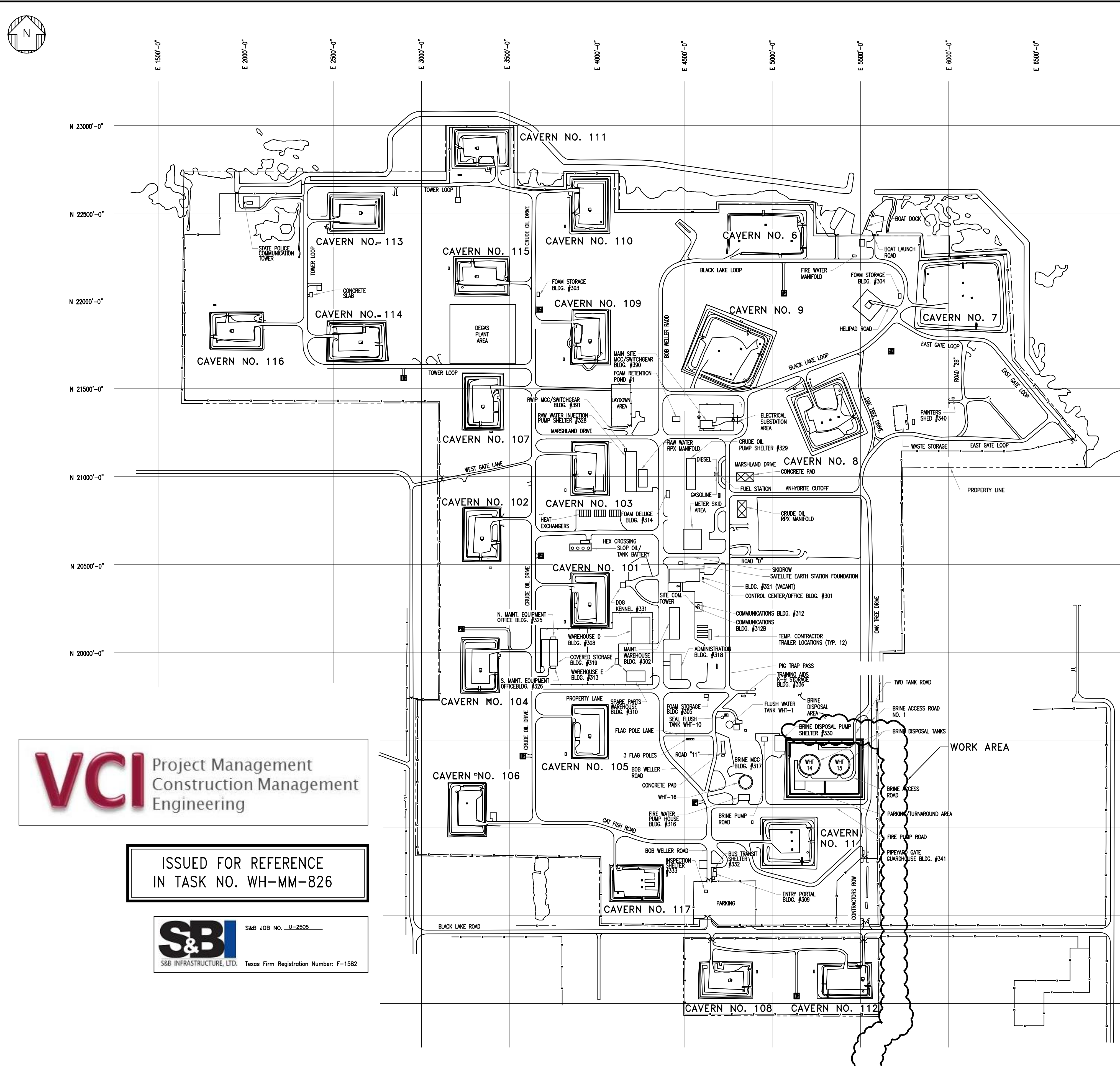
APPROVED FOR CONSTRUCTION  
DATE

PROJECT AUTH. #  
03191783  
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WH-MM-826  
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SCALE:  
NONE  
DRAWING NUMBER:  
SK-U-WH826-001  
SHEET 1 OF 1  
REV. 0

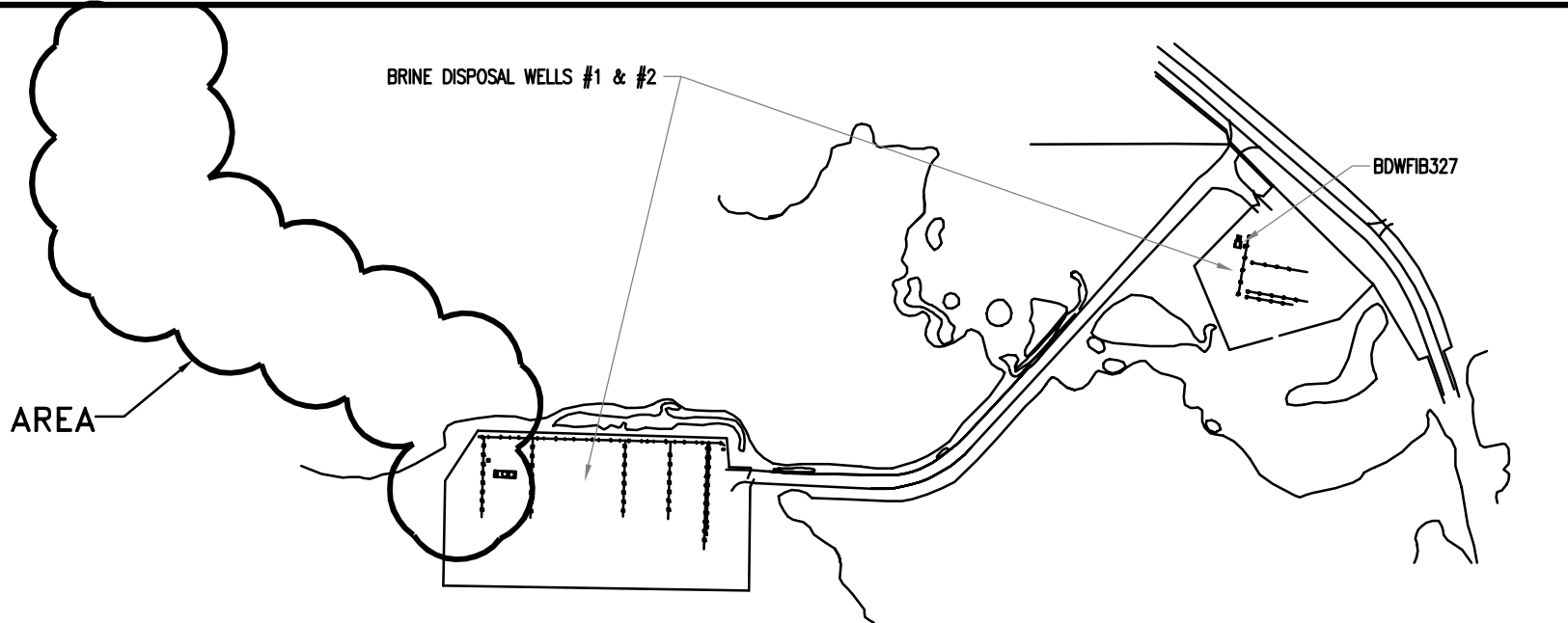
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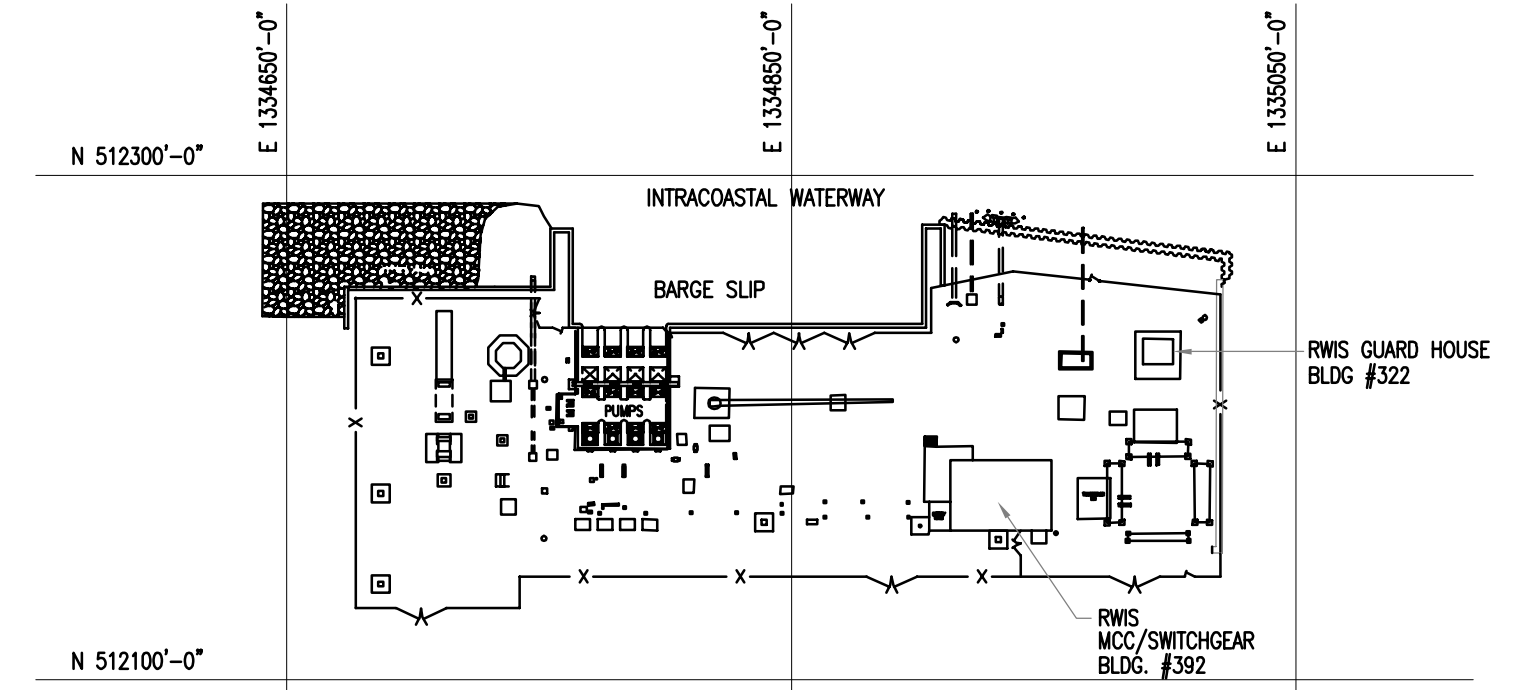
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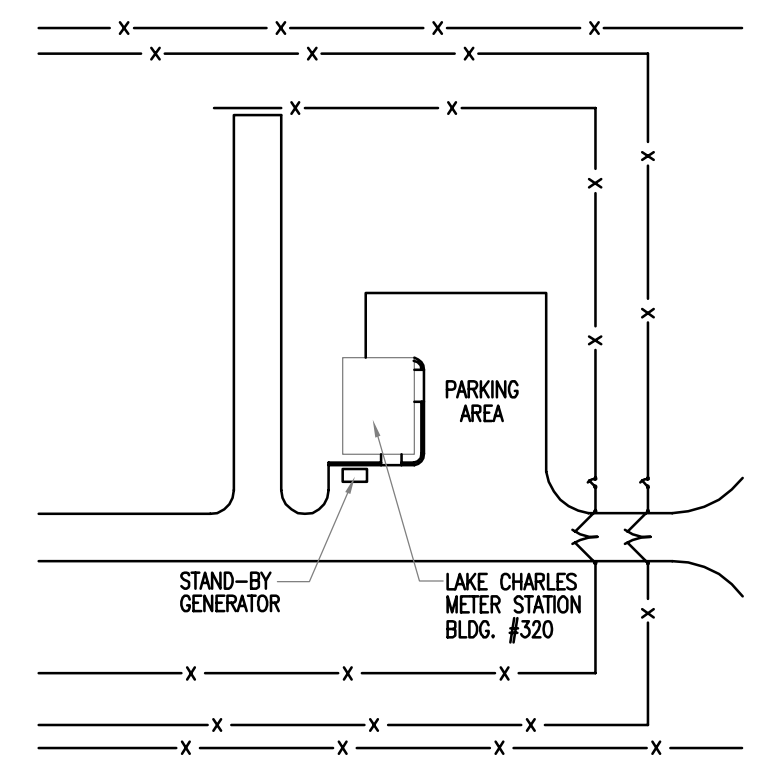
ISSUED FOR REFERENCE  
IN TASK NO. WH-MM-826



BRINE DISPOSAL WELL PAD No.1 & No.2



RAW WATER INTAKE STRUCTURE  
N.T.S.



LAKE CHARLES METER STATION  
N.T.S.

### WEST HACKBERRY MECHANICAL DRAWING INDEX LINKS

(SEE NOTE 1)

CRUDE OIL SYSTEM HEADER	CAVERN NO. 106 (SOUR)
RAW WATER SYSTEM HEADER	CAVERN NO. 107 (SWEET)
CRUDE OIL MANIFOLD (RPX)	CAVERN NO. 108 (SWEET)
RAW WATER MANIFOLD (RPX)	CAVERN NO. 109 (SOUR)
CRUDE OIL HEAT EXCHANGERS	CAVERN NO. 110 (SWEET)
RAW WATER INJECTION PUMP	CAVERN NO. 111 (SOUR)
CRUDE OIL INJECTION PUMP	CAVERN NO. 112 (SOUR)
RAW WATER INTAKE STRUCTURE	CAVERN NO. 113 (SWEET)
CRUDE OIL LAUNCHER/RECEIVERS	CAVERN NO. 114 (SOUR)
CRUDE OIL METERS	CAVERN NO. 115 (SOUR)
CAVERN NO. 6 (SOUR)	CAVERN NO. 116 (SWEET)
CAVERN NO. 7 (SWEET)	CAVERN NO. 117 (SOUR)
CAVERN NO. 8 (SOUR)	EMERGENCY GENERATOR
CAVERN NO. 9 (SOUR)	FLUSH WATER PUMPS
CAVERN NO. 11 (SOUR)	BRINE DISPOSAL PUMPS
CAVERN NO. 101 (SWEET)	FIRE PROTECTION
CAVERN NO. 102 (SWEET)	OIL/WATER SEPARATION
CAVERN NO. 103 (SWEET)	POTABLE WATER
CAVERN NO. 104 (SWEET)	SEAL FLUSH
CAVERN NO. 105 (SWEET)	SLOP OIL SYSTEM

1" = 300'-0"

REGISTRATION STAMP	DESIGNED BY:
	DRAWN BY:
	CHECKED BY:
	ENGINEER OF RECORD:
	SIGNATURE:
	DATE:

**NOTES:**

- TO ACCESS THE MECHANICAL DRAWING INDEX FOR EACH AREA SHOWN, DOUBLE-CLICK ON THE TEXT WITHIN THE CHART AND THE MECHANICAL DRAWING INDEX WILL BE VIEWED IN MYRIAD. THE MECHANICAL DRAWING INDEX CAN ALSO BE ACCESSED BY DOUBLE-CLICKING ON THE BOLD TEXT WITHIN THE SITE PLAN ITSELF.
- HEAT FLUX EXCLUSION ZONES ARE ON HIDDEN LAYERS CALLED "HF-BRINE POND", "HF-C.O. PIPELINE", "HF-C.O. PIPELINE 300 FT", "HF-C.O. PIPELINE 75 FT", "HF-DEGAS 425 FT", "HF-DIKE 300 FT", "HF-DIKE 75 FT", "HF-DYNERGY AND K9", "HF-NG PIPELINE" & "HF-SAFE ZONE". TO VIEW THIS INFO, TURN THE LAYERS ON IN VIEWER OR AUTOCAD.

28	AB PER 999-DOC, CN 144	CBB	JTF	4/26/12
27	AB PER 999-DOC, CN 143	CBB	JTF	6/28/11
26	AB PER WH-10-067, 03042093, CN 139 & 999-DOC, CN, 142	EMB	BD	2/21/11
25	AB PER 999-DOC, CN 141	TLM	JTF	12/9/10
24	AB PER 999-DOC, CN 140	JTF	BD	10/21/10
23	AB PER 999-DOC, CN 137 & CN 138	TLM	JTF	8/2/10
22	AB PER 999-DOC, CN 136	TLM	JTF	4/8/10
21	AB PER 999-DOC, CN 133	TLM	JTF	5/14/09
30	AB PER 999-DOC, CN 146	JMM	JTF	12/11/14
29	AB PER 999-DOC, CN 145	CBB	JTF	5/16/12

PLAN  
  
OVERALL SITE  
  
WEST HACKBERRY  
CAMERON PARISH, LOUISIANA

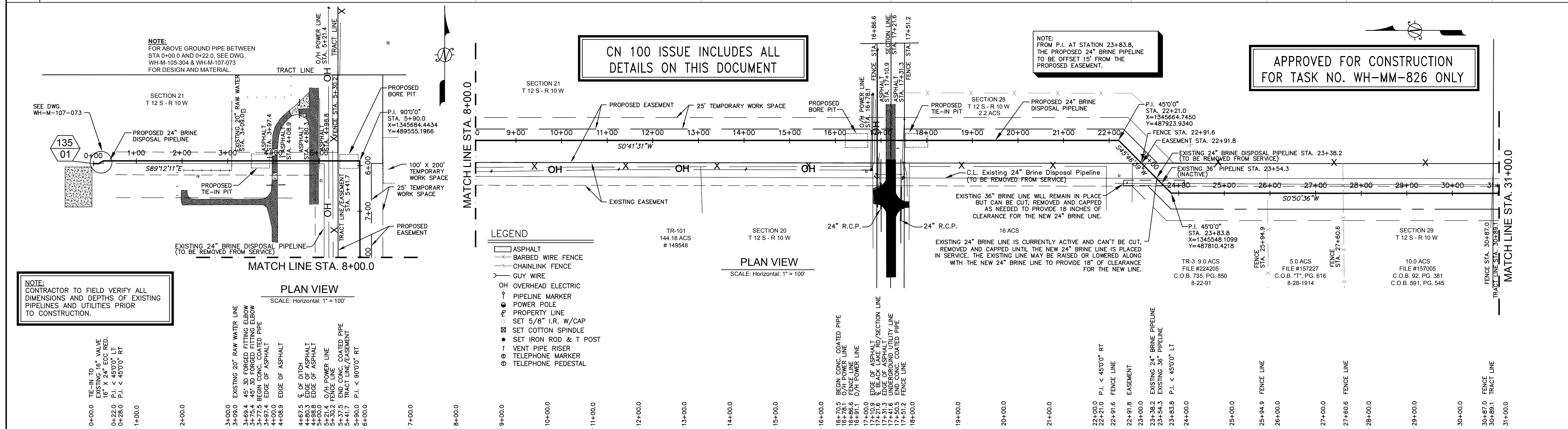
**OFFICE OF SYSTEMS AND PROJECTS**

STRATEGIC PETROLEUM RESERVE

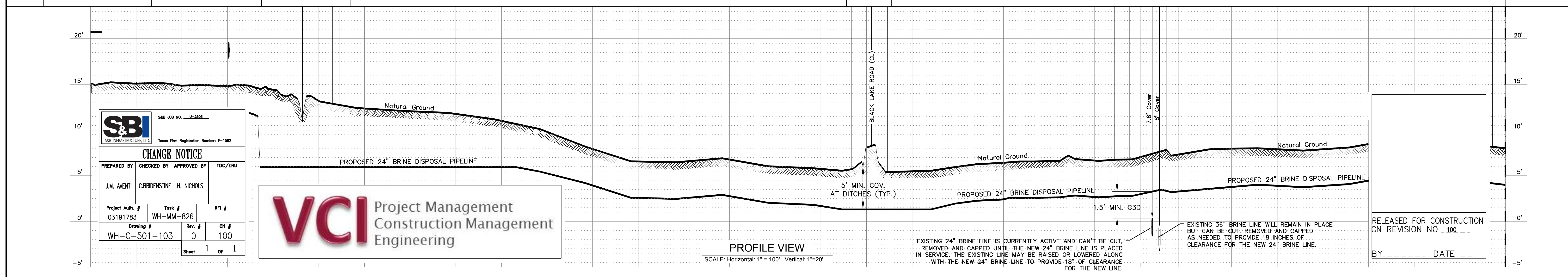
APPROVED FOR CONSTRUCTION  
DATE: \_\_\_\_\_

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SCALE:	1" = 300'-0"
DRAWING NUMBER:	WH-C-201-001
SHEET	CL OF 15
REV.	30

TERRAIN	INSIDE FACILITY FENCE	FLAT PASTURE	FLAT PASTURE	FLAT PASTURE	FLAT PASTURE	FLAT PASTURE	FLAT PASTURE
VEGETATION	GRASSY AREA	OPEN GRASSY AREA	OPEN GRASSY AREA	OPEN GRASSY AREA	OPEN GRASSY AREA	OPEN GRASSY AREA	OPEN GRASSY AREA
OWNER	UNITED STATES OF AMERICA	UNKNOWN	UNKNOWN	UNKNOWN	TRIDENT ENERGY GROUP	U.R. GASSEN ET AL	DONALD B. DEROUEN ESTATE DOROTHY MAE DEROUEN LYONS
RODS							
PARISH-STATE	CAMERON PARISH, LOUISIANA	CAMERON PARISH, LOUISIANA	CAMERON PARISH, LOUISIANA	CAMERON PARISH, LOUISIANA	CAMERON PARISH, LOUISIANA	CAMERON PARISH, LA	CAMERON PARISH, LOUISIANA



REF. DWG	WH-M-105-304	WH-M-107-073 WH-M-107-231	WH-C-509-033	WH-C-509-034
MOP				1296 PSIG
MATERIAL	30'	347'	160'	1,133'
	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩



REGISTRATION STAMP	DESIGNED BY:	9 24" 45 DEG, 3D ELBOW, W/ 0.375" THICK CEMENT LINER, BARE PIPE FOR ABOVE GROUND	3
	DRAWN BY:	8 AERIAL MILE POST MARKERS	0
	CHECKED BY:	7 PIPELINE MARKERS - WARNING SIGNS	6
	SURVEYOR OF RECORD:	6 CP TEST STATIONS	1
	SIGNATURE:	5 24" O.D., 0.500" W.T., API 5L X-60-PSL2 PIPE W/ 0.375" THICK INTERNAL CEMENT LINER, BARE PIPE (FOR ABOVE GROUND)	30'
		4 24" 45 DEG, 3D FORGED FITTING ELBOW, 0.500" W.T. TAPERED ENDS TO MATCH PIPE, MSS-SP-75 WPHY 60 W/0.375" THICK INTERNAL CEMENT LINER, 14-16 MILS FBE, 25-30 MILS ARO	5
		3 24" 90 DEG, 3D FORGED FITTING ELBOW, 0.500" W.T. TAPERED ENDS TO MATCH PIPE, MSS-SP-75 WPHY 60 W/0.375" THICK INTERNAL CEMENT LINER, 14-16 MILS FBE, 25-30 MILS ARO	1
		2 24" O.D., 0.500" W.T., API 5L X-60-PSL2 PIPE W/0.375" THICK INTERNAL CEMENT LINER, AND 14-16 MILS FBE, + 1" THICK CONC. OUTER COATING	240'
		1 24" O.D., 0.500" W.T., API 5L X-60-PSL2 PIPE W/0.375" THICK INTERNAL CEMENT LINER, AND 14-16 MILS FBE, 25-30 MILS ARO	2830'
REVISION NUMBER	DATE:	MATERIAL DESCRIPTION	QUANTITY NO. CHANGE DESCRIPTION

PIPELINE ALIGNMENT SHEET

**24" BRINE PIPELINE**

WEST HACKBERRY SPR FACILITY TO BRINE DISPOSAL WELL SITE

STA. 0+00 TO STA. 31+00

WEST HACKBERRY

CAMERON PARISH, LOUISIANA

OFFICE OF SYSTEMS AND PROJECTS

STRATEGIC PETROLEUM RESERVE

TASK NUMBER: WH-MM-826


DISCIPLINE: MAPPING

SCALE: HORIZONTAL: 1" = 100' PROFILE BY: 1" = 20'

DRAWING NUMBER: WH-C-501-103

SHEET 02 OF 15

TERRAIN	FLAT FARM LAND	FLAT RESIDENTIAL (YARD)
VEGETATION	OPEN HAY FIELD	OPEN GRASSY AREA
OWNER	GEORGE ELERY SHOVE, ET UX	RONALD JOSEPH RICHARD, ET UX
RODS		
PARISH-STATE	CAMERON PARISH, LOUISIANA	CAMERON PARISH, LOUISIANA



S&B INFRASTRUCTURE, LTD.  
Texas Firm Registration Number: F-1582

S&B JOB NO. U-2605

### CHANGE NOTICE

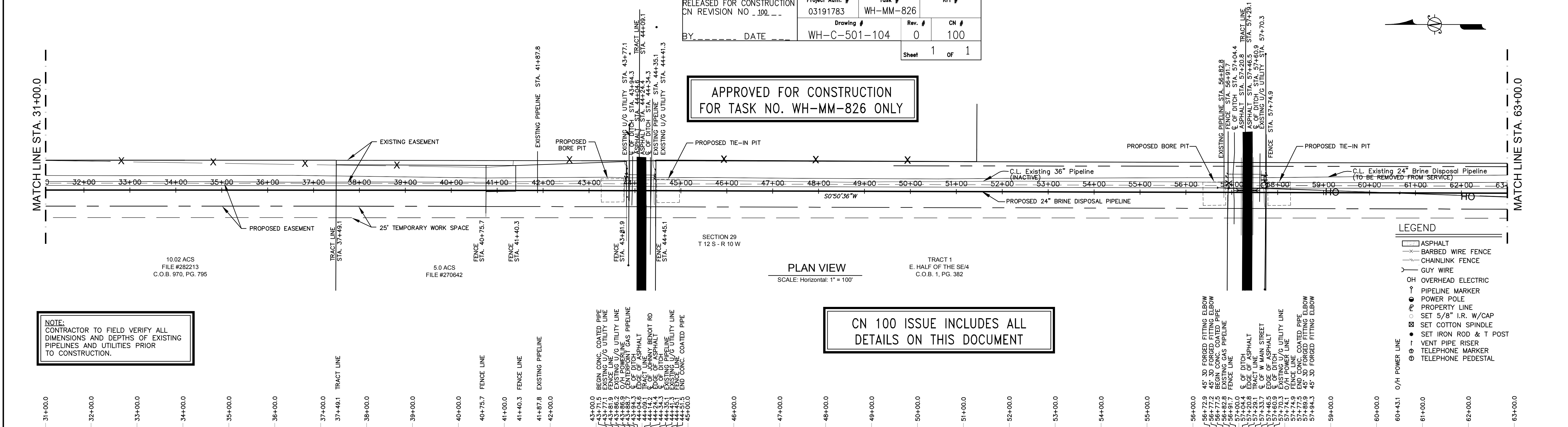
PREPARED BY: J.M. AVENT  
CHECKED BY: C. BRIDENSTINE  
APPROVED BY: H. NICHOLS  
TDC/ERU

RELEASED FOR CONSTRUCTION  
CN REVISION NO. 100

BY: \_\_\_\_\_ DATE: \_\_\_\_\_

Project Auth. # 03191783	Task # WH-MM-826	RFI #
Drawing # WH-C-501-104	Rev. # 0	CN # 100
Sheet 1 OF 1		

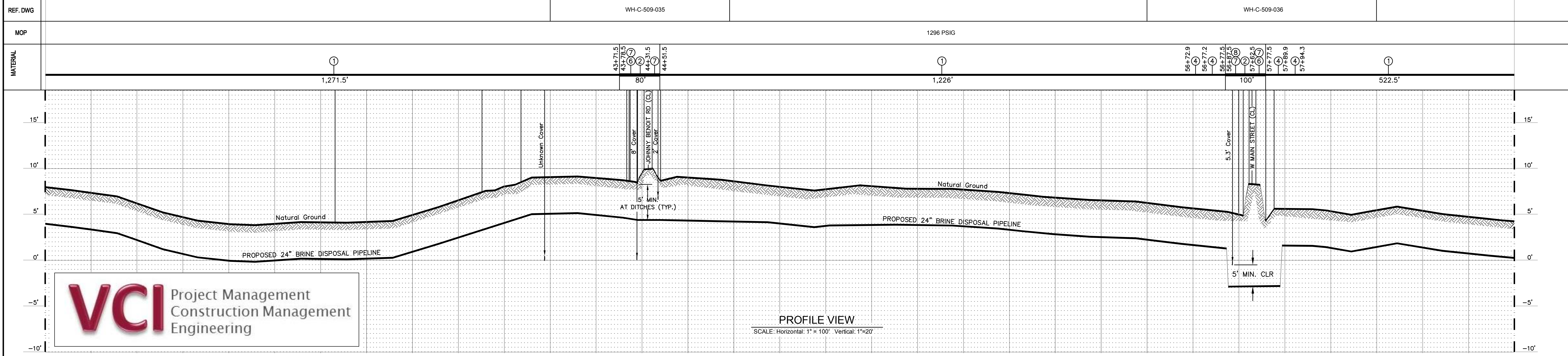
TERRAIN	FLAT PASTURE
VEGETATION	OPEN GRASSY AREA
OWNER	MRS. LAURA JOHNSON, ET AL
RODS	
PARISH-STATE	CAMERON PARISH, LOUISIANA




**NOTE:**  
CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND DEPTHS OF EXISTING PIPELINES AND UTILITIES PRIOR TO CONSTRUCTION.

**CN 100 ISSUE INCLUDES ALL DETAILS ON THIS DOCUMENT**

- LEGEND**
- ASPHALT
  - BARBED WIRE FENCE
  - CHAINLINK FENCE
  - GUY WIRE
  - OVERHEAD ELECTRIC
  - PIPELINE MARKER
  - POWER POLE
  - PROPERTY LINE
  - SET 5/8" I.R. W/CAP
  - SET COTTON SPINDLE
  - SET IRON ROD & T POST
  - VENT PIPE RISER
  - TELEPHONE MARKER
  - TELEPHONE PEDESTAL



REGISTRATION STAMP DESIGNED BY: DRAWN BY: CHECKED BY: SURVEYOR OF RECORD: SIGNATURE: DATE:	<table border="1"> <tr> <th>NO.</th> <th>MATERIAL DESCRIPTION</th> <th>QUANTITY</th> <th>NO.</th> <th>CHANGE DESCRIPTION</th> <th>DRAWN BY</th> <th>CHECKED BY</th> <th>PROJECT ENGINEER</th> <th>ENGINEERING MANAGER</th> <th>D.O.E. APPROVAL</th> <th>DATE</th> </tr> <tr> <td>8</td> <td>AERIAL MILE POST MARKERS</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td>PIPELINE MARKERS - WARNING SIGNS</td> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td>CP TEST STATIONS</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>NOT USED</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>24" 45 DEG. 30 FORGED FITTING ELBOW, 0.500" W.T., TAPERED ENDS TO MATCH PIPE, MSS-SP-75 WPHY 60 W/0.375" THICK INTERNAL CEMENT LINER, 14-16 MILS FBE, 25-30 MILS ARO</td> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>24" 90 DEG. 30 FORGED FITTING ELBOW, 0.500" W.T., TAPERED ENDS TO MATCH PIPE, MSS-SP-75 WPHY 60 W/0.375" THICK INTERNAL CEMENT LINER, 14-16 MILS FBE, 25-30 MILS ARO</td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>24" O.D., 0.500" W.T., API 5L X-60-PSL2 PIPE W/0.375" THICK INTERNAL CEMENT LINER, AND 14-16 MILS FBE, + 1" THICK CONC. OUTER COATING</td> <td>180'</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>24" O.D., 0.500" W.T., API 5L X-60-PSL2 PIPE W/0.375" THICK INTERNAL CEMENT LINER, AND 14-16 MILS FBE, 25-30 MILS ARO</td> <td>3,020'</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	NO.	MATERIAL DESCRIPTION	QUANTITY	NO.	CHANGE DESCRIPTION	DRAWN BY	CHECKED BY	PROJECT ENGINEER	ENGINEERING MANAGER	D.O.E. APPROVAL	DATE	8	AERIAL MILE POST MARKERS	1									7	PIPELINE MARKERS - WARNING SIGNS	4									6	CP TEST STATIONS	2									5	NOT USED										4	24" 45 DEG. 30 FORGED FITTING ELBOW, 0.500" W.T., TAPERED ENDS TO MATCH PIPE, MSS-SP-75 WPHY 60 W/0.375" THICK INTERNAL CEMENT LINER, 14-16 MILS FBE, 25-30 MILS ARO	4									3	24" 90 DEG. 30 FORGED FITTING ELBOW, 0.500" W.T., TAPERED ENDS TO MATCH PIPE, MSS-SP-75 WPHY 60 W/0.375" THICK INTERNAL CEMENT LINER, 14-16 MILS FBE, 25-30 MILS ARO	0									2	24" O.D., 0.500" W.T., API 5L X-60-PSL2 PIPE W/0.375" THICK INTERNAL CEMENT LINER, AND 14-16 MILS FBE, + 1" THICK CONC. OUTER COATING	180'									1	24" O.D., 0.500" W.T., API 5L X-60-PSL2 PIPE W/0.375" THICK INTERNAL CEMENT LINER, AND 14-16 MILS FBE, 25-30 MILS ARO	3,020'									<p>PIPELINE ALIGNMENT SHEET</p> <p>24" BRINE PIPELINE WEST HACKBERRY SPR FACILITY TO BRINE DISPOSAL WELL SITE STA. 31+00 TO STA. 63+00</p> <p>WEST HACKBERRY CAMERON PARISH, LOUISIANA</p>	<p>OFFICE OF SYSTEMS AND PROJECTS</p>  <p>STRATEGIC PETROLEUM RESERVE</p> <p>APPROVED FOR CONSTRUCTION DATE: _____</p>	<p>TASK NUMBER: WH-MM-826</p> <p>DISCIPLINE: MAPPING</p> <p>SCALE: HORIZONTAL: 1" = 100' PROFILE: 1" = 20'</p> <p>DRAWING NUMBER: WH-C-501-104</p> <p>SHEET 03 OF 15</p> <p>REV: 0</p>
NO.	MATERIAL DESCRIPTION	QUANTITY	NO.	CHANGE DESCRIPTION	DRAWN BY	CHECKED BY	PROJECT ENGINEER	ENGINEERING MANAGER	D.O.E. APPROVAL	DATE																																																																																													
8	AERIAL MILE POST MARKERS	1																																																																																																					
7	PIPELINE MARKERS - WARNING SIGNS	4																																																																																																					
6	CP TEST STATIONS	2																																																																																																					
5	NOT USED																																																																																																						
4	24" 45 DEG. 30 FORGED FITTING ELBOW, 0.500" W.T., TAPERED ENDS TO MATCH PIPE, MSS-SP-75 WPHY 60 W/0.375" THICK INTERNAL CEMENT LINER, 14-16 MILS FBE, 25-30 MILS ARO	4																																																																																																					
3	24" 90 DEG. 30 FORGED FITTING ELBOW, 0.500" W.T., TAPERED ENDS TO MATCH PIPE, MSS-SP-75 WPHY 60 W/0.375" THICK INTERNAL CEMENT LINER, 14-16 MILS FBE, 25-30 MILS ARO	0																																																																																																					
2	24" O.D., 0.500" W.T., API 5L X-60-PSL2 PIPE W/0.375" THICK INTERNAL CEMENT LINER, AND 14-16 MILS FBE, + 1" THICK CONC. OUTER COATING	180'																																																																																																					
1	24" O.D., 0.500" W.T., API 5L X-60-PSL2 PIPE W/0.375" THICK INTERNAL CEMENT LINER, AND 14-16 MILS FBE, 25-30 MILS ARO	3,020'																																																																																																					

TERRAIN	FLAT PASTURE	FLAT PASTURE	FLAT TREED AREA WITH WATER CROSSING	FLAT PASTURE
VEGETATION	OPEN GRASSY AREA	OPEN GRASSY AREA	HEAVY TREED AREA AREA	OPEN GRASSY AREA
OWNER	MRS. LAURA JOHNSON, ET AL	UNKNOWN	CARL P. JOHNSON PRESTON J. JOHNSON	VINCENT HEIRS, INC. (E/2 OF W/2, E/2, W/2 OF SW/4, SW/4 OF NW/4 SECTION 32) COB 227, PG. 585 COB 181, PG. 422 COB 395, PG. 58
RODS				
PARISH-STATE	CAMERON PARISH, LOUISIANA	CAMERON PARISH, LA	CAMERON PARISH, LOUISIANA	CAMERON PARISH, LOUISIANA

**S&B** S&B INFRASTRUCTURE, LTD.  
Texas Firm Registration Number: F-1582

### CHANGE NOTICE

PREPARED BY: J.M. AVENT  
CHECKED BY: C. BRIDENSTINE  
APPROVED BY: H. NICHOLS  
TDC/ERU

Project Auth. #: 03191783  
Task #: WH-MM-826  
RFI #

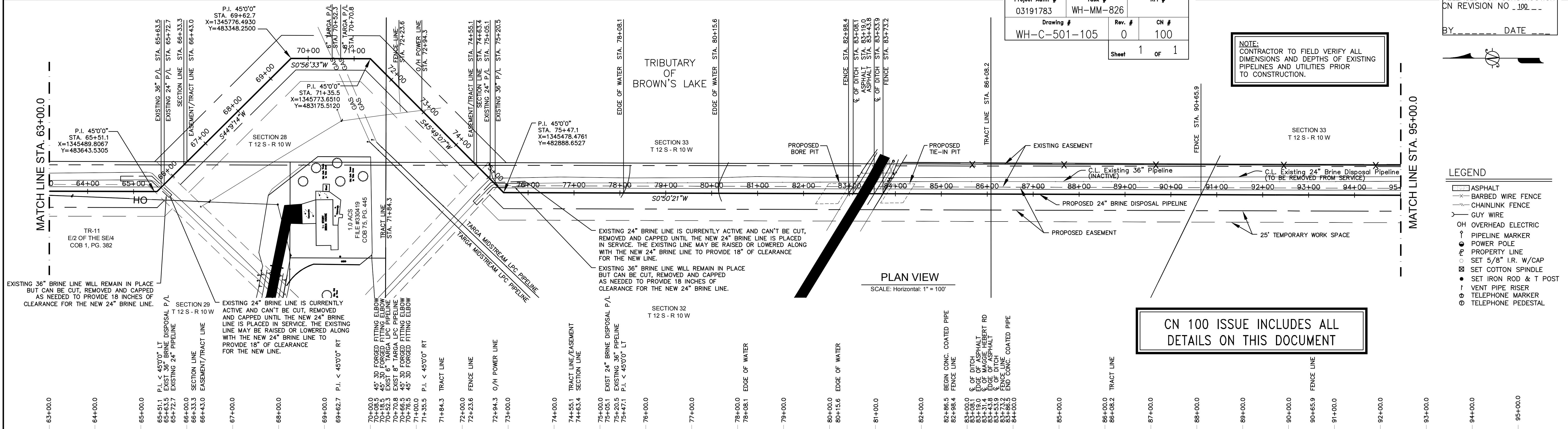
Drawing #: WH-C-501-105  
Rev. #: 0  
CN #: 100

Sheet 1 of 1

NOTE:  
CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND DEPTHS OF EXISTING PIPELINES AND UTILITIES PRIOR TO CONSTRUCTION.

RELEASED FOR CONSTRUCTION  
CN REVISION NO. 100

BY: \_\_\_\_\_ DATE: \_\_\_\_\_



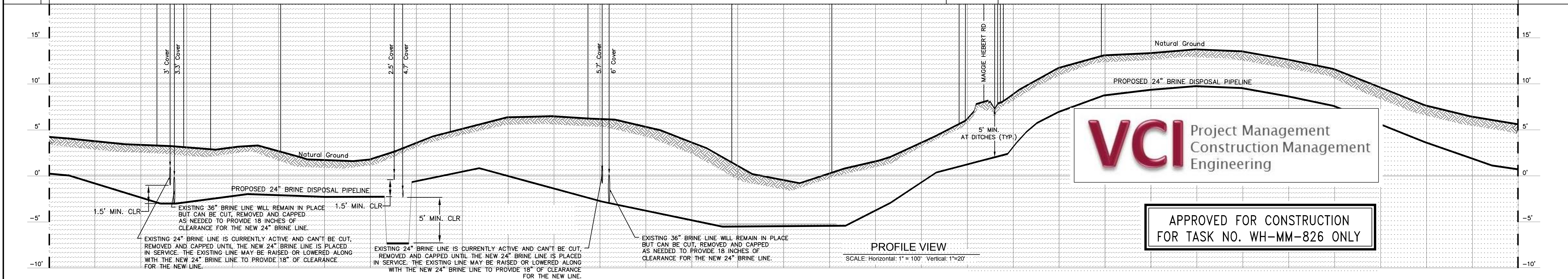
#### LEGEND

- ASPHALT
- BARBED WIRE FENCE
- CHAINLINK FENCE
- GUY WIRE
- OH OVERHEAD ELECTRIC
- PIPELINE MARKER
- POWER POLE
- PROPERTY LINE
- SET 5/8" I.R. W/CAP
- SET COTTON SPINDLE
- SET IRON ROD & T POST
- VENT PIPE RISER
- TELEPHONE MARKER
- TELEPHONE PEDESTAL

CN 100 ISSUE INCLUDES ALL DETAILS ON THIS DOCUMENT

REF. DWG	WH-C-509-037	WH-C-509-038
MOP	1296 PSIG	

MATERIAL	65-PS1.1 69+62.7 70+06.5 70+06.5 70+06.5 70+06.5 70+06.5 70+06.5 71+35.5 72+06.5 75+47.1 82+86.5 82+98.4 82+98.5 83+00.0 83+08.1 83+10.4 83+43.8 83+43.8 83+73.9 83+86.5 84+00.0 86+00.0 86+08.2 87+00.0 88+00.0 89+00.0 90+00.0 90+65.9 91+00.0 92+00.0 93+00.0 94+00.0 95+00.0
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APPROVED FOR CONSTRUCTION  
FOR TASK NO. WH-MM-826 ONLY

REGISTRATION STAMP	DESIGNED BY:	8 AERIAL MILE POST MARKERS	0		
	DRAWN BY:	7 PIPELINE MARKERS - WARNING SIGNS	7		
	CHECKED BY:	6 CP TEST STATIONS	2		
	SURVEYOR OF RECORD:	5 NOT USED			
	SIGNATURE:	4 24" 45 DEG. 3D FORGED FITTING ELBOW, 0.500" W.T. TAPERED ENDS TO MATCH PIPE, MSS-SP-75 WPHY 60 W/0.375" THICK INTERNAL CEMENT LINER, 14-16 MILS FBE, 25-30 MILS ARO	8		
	DATE:	3 24" 90 DEG. 3D FORGED FITTING ELBOW, 0.500" W.T. TAPERED ENDS TO MATCH PIPE, MSS-SP-75 WPHY 60 W/0.375" THICK INTERNAL CEMENT LINER, 14-16 MILS FBE, 25-30 MILS ARO	0		
		2 24" O.D., 0.500" W.T., API 5L X-60-PSL2 PIPE W/0.375" THICK INTERNAL CEMENT LINER, AND 14-16 MILS FBE, + 1" THICK CONC. OUTER COATING	100'		
		1 24" O.D., 0.500" W.T., API 5L X-60-PSL2 PIPE W/0.375" THICK INTERNAL CEMENT LINER, AND 14-16 MILS FBE, 25-30 MILS ARO	3100'		

PIPELINE ALIGNMENT SHEET  
24" BRINE PIPELINE  
WEST HACKBERRY SPR FACILITY  
TO BRINE DISPOSAL WELL SITE  
STA. 63+00 TO STA. 95+00

WEST HACKBERRY  
CAMERON PARISH, LOUISIANA

OFFICE OF SYSTEMS AND PROJECTS

STRATEGIC PETROLEUM RESERVE

TASK NUMBER: WH-MM-826  
DISCIPLINE: MAPPING  
SCALE: HORIZONTAL: 1" = 100'  
PROFILE: 1" = 20'

DRAWING NUMBER: WH-C-501-105

APPROVED FOR CONSTRUCTION DATE: \_\_\_\_\_

SHEET C4 of 15 REV: 0

TERRAIN	FLAT PASTURE	FLAT WATER CROSSING
VEGETATION	OPEN GRASSY AREA	WET/OPEN WATER
OWNER	VINCENT HEIRS, INC. (E/2 OF W/2, E/2, W/2 OF SW/4, SW/4 OF NW/4 SECTION 32) COB 227, PG. 555 COB 181, PG. 422 COB 395, PG. 58	UNITED STATES OF AMERICA
RODS		
PARISH-STATE	CAMERON PARISH, LOUISIANA	CAMERON PARISH, LOUISIANA

**S&B** S&B INFRASTRUCTURE, LTD. Texas Firm Registration Number: F-1582  
S&B JOB NO. U-2509

**CHANGE NOTICE**

PREPARED BY	CHECKED BY	APPROVED BY	TDC/ERU
J.M. AVENT	C. BRIDENSTINE	H. NICHOLS	

Project Auth. # 03191783 Task # WH-MM-826 RFI #

Drawing # WH-C-501-106 Rev. # 0 CN # 100

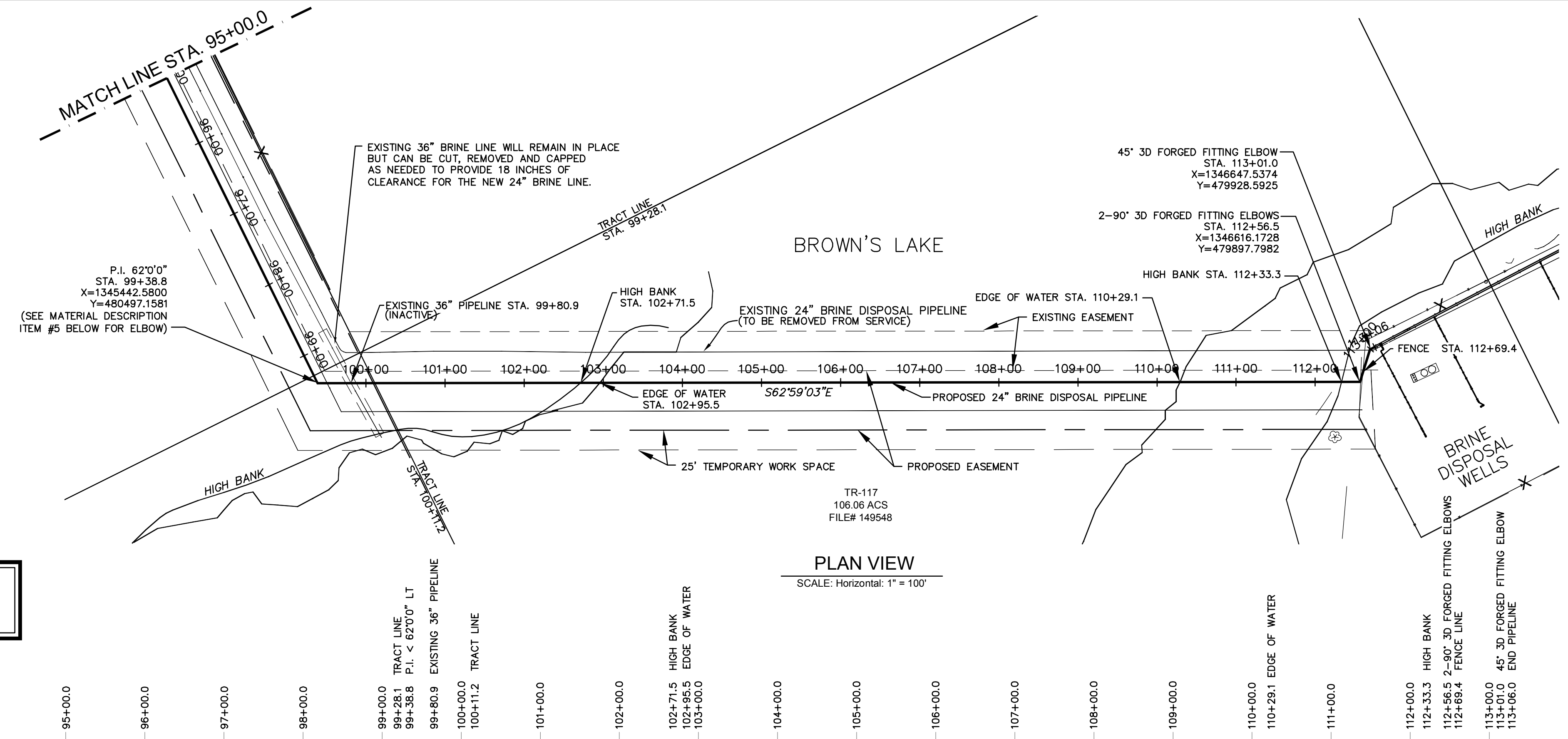
Released for Construction CN Revision No. 100

Sheet 1 of 1

APPROVED FOR CONSTRUCTION FOR TASK NO. WH-MM-826 ONLY

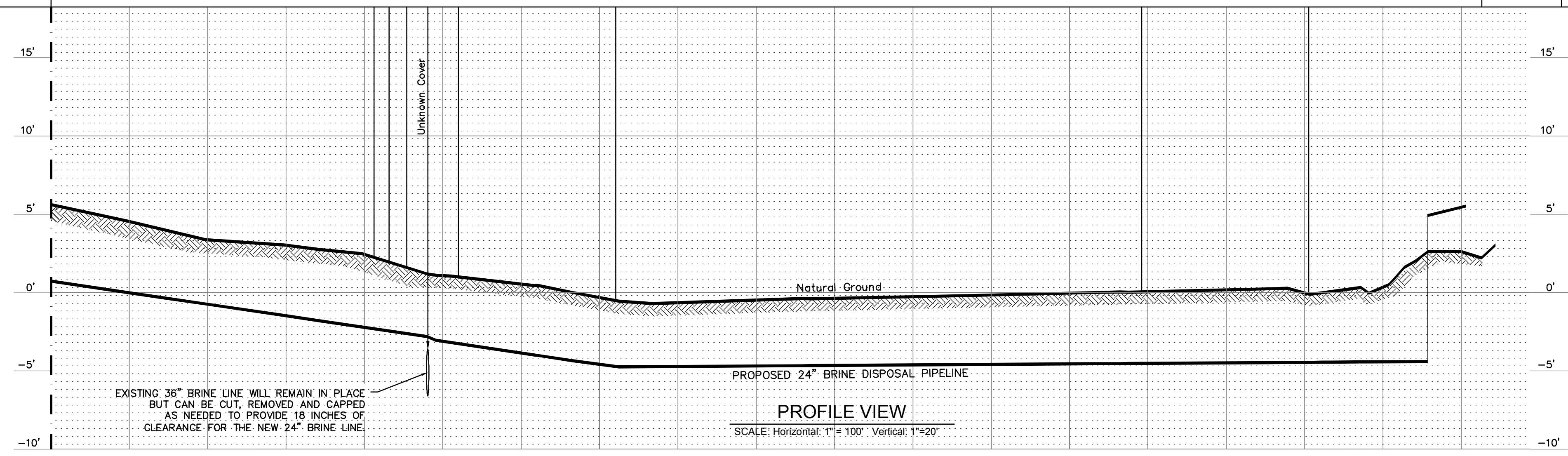
NOTE: CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND DEPTHS OF EXISTING PIPELINES AND UTILITIES PRIOR TO CONSTRUCTION.

CN 100 ISSUE INCLUDES ALL DETAILS ON THIS DOCUMENT



- LEGEND**
- ASPHALT
  - BARBED WIRE FENCE
  - CHAINLINK FENCE
  - GUY WIRE
  - OVERHEAD ELECTRIC
  - PIPELINE MARKER
  - POWER POLE
  - PROPERTY LINE
  - SET 5/8" I.R. W/CAP
  - SET COTTON SPINDLE
  - SET IRON ROD & T POST
  - VENT PIPE RISER
  - TELEPHONE MARKER
  - TELEPHONE PEDESTAL

REF. DWG	WH-C-509-039	WH-M-107-074
MOP	1296 PSIG	
MATERIAL		



NOTE: FOR ABOVE GROUND PIPE BETWEEN STA. 113+06.0 AND 113+36.0, SEE DWG. WH-M-107-074 FOR DESIGN AND MATERIAL.

NO.	MATERIAL DESCRIPTION	QUANTITY	NO.	CHANGE DESCRIPTION	DRAWN BY	CHECKED BY	PROJECT ENGINEER	ENGINEERING MANAGER	D.O.E. APPROVAL	DATE
10	24" X 0.500" W.T., 90 DEG, 3D FORGED FITTING ELBOW W/0.375" THICK INTERNAL CEMENT LINER, BARE PIPE (FOR ABOVE GROUND)	1								
9	24" O.D., 0.500" W.T., API 5L-X60-PSL2 PIPE W/0.375" THICK INTERNAL CEMENT LINER, BARE PIPE (FOR ABOVE GROUND)	30'								
8	AERIAL MILE POST MARKERS	1								
7	PIPELINE MARKERS - WARNING SIGNS	2								
6	CP TEST STATIONS	0								
5	24" 90 DEG SEGMENTED TRIMMED TO 62 DEG, 3D FORGED FITTING ELBOW W/0.375" THICK INTERNAL CEMENT LINER, 14-16 MILS FBE, 25-30 MILS ARO	1								
4	24" 45 DEG, 3D FORGED FITTING ELBOW, 0.500" W.T. TAPERED ENDS TO MATCH PIPE, MSS-SP-75 WPHY 60 W/0.375" THICK INTERNAL CEMENT LINER, BARE PIPE	1								
3	24" 90 DEG, 3D FORGED FITTING ELBOW, 0.500" W.T. TAPERED ENDS TO MATCH PIPE, MSS-SP-75 WPHY 60 W/0.375" THICK INTERNAL CEMENT LINER, 14-16 MILS FBE, 25-30 MILS ARO	1								
2	24" O.D., 0.500" W.T., API 5L X-60-PSL2 PIPE W/0.375" THICK INTERNAL CEMENT LINER, AND 14-16 MILS FBE, + 1" THICK CONC. OUTER COATING	0'								
1	24" O.D., 0.500" W.T., API 5L X-60-PSL2 PIPE W/0.375" THICK INTERNAL CEMENT LINER, AND 14-16 MILS FBE, 25-30 MILS ARO	1806'								

PIPELINE ALIGNMENT SHEET  
24" BRINE PIPELINE  
WEST HACKBERRY SPR FACILITY  
TO BRINE DISPOSAL WELL SITE  
STA. 95+00 TO STA. 113+06

WEST HACKBERRY  
CAMERON PARISH, LOUISIANA

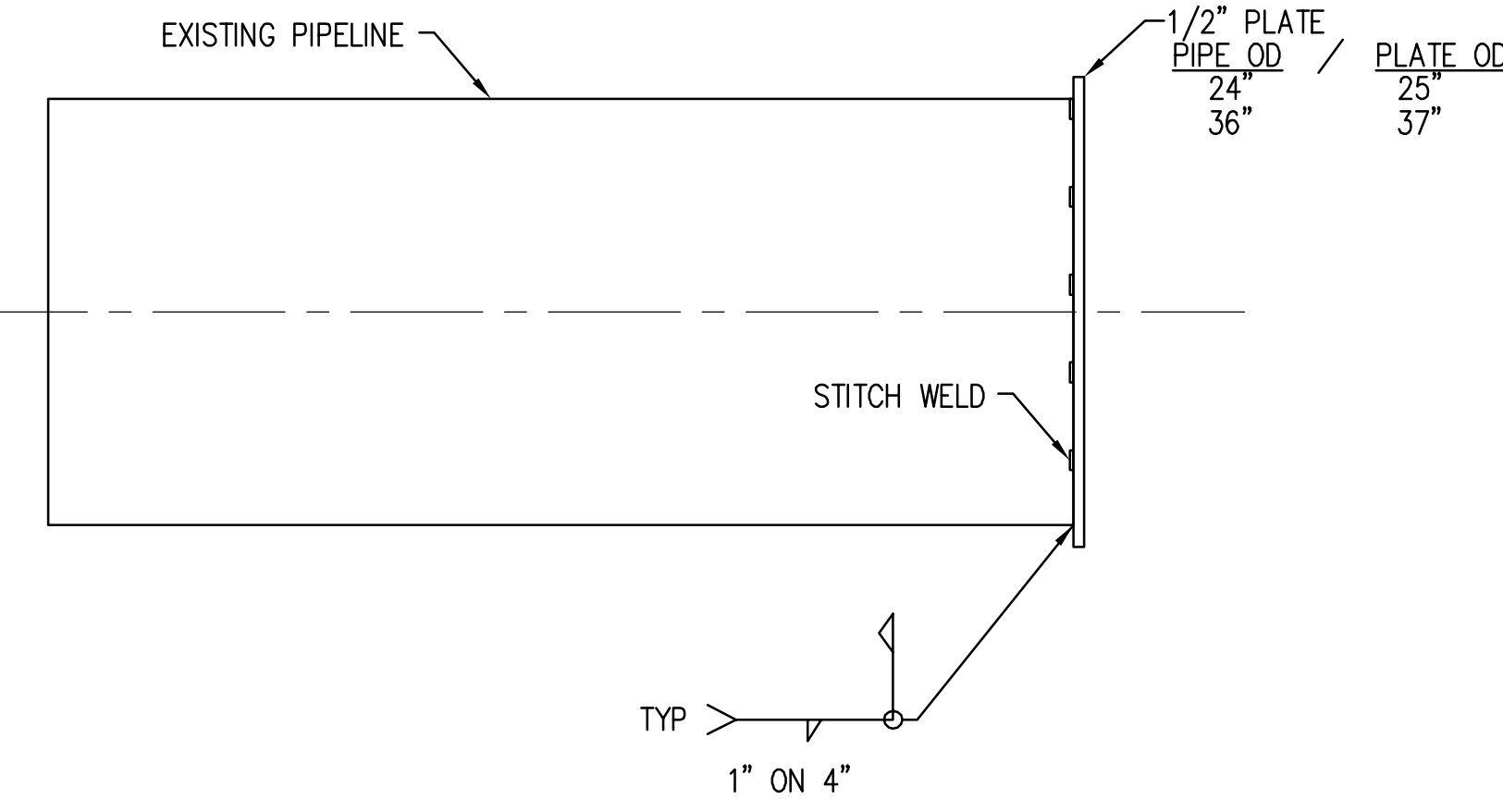
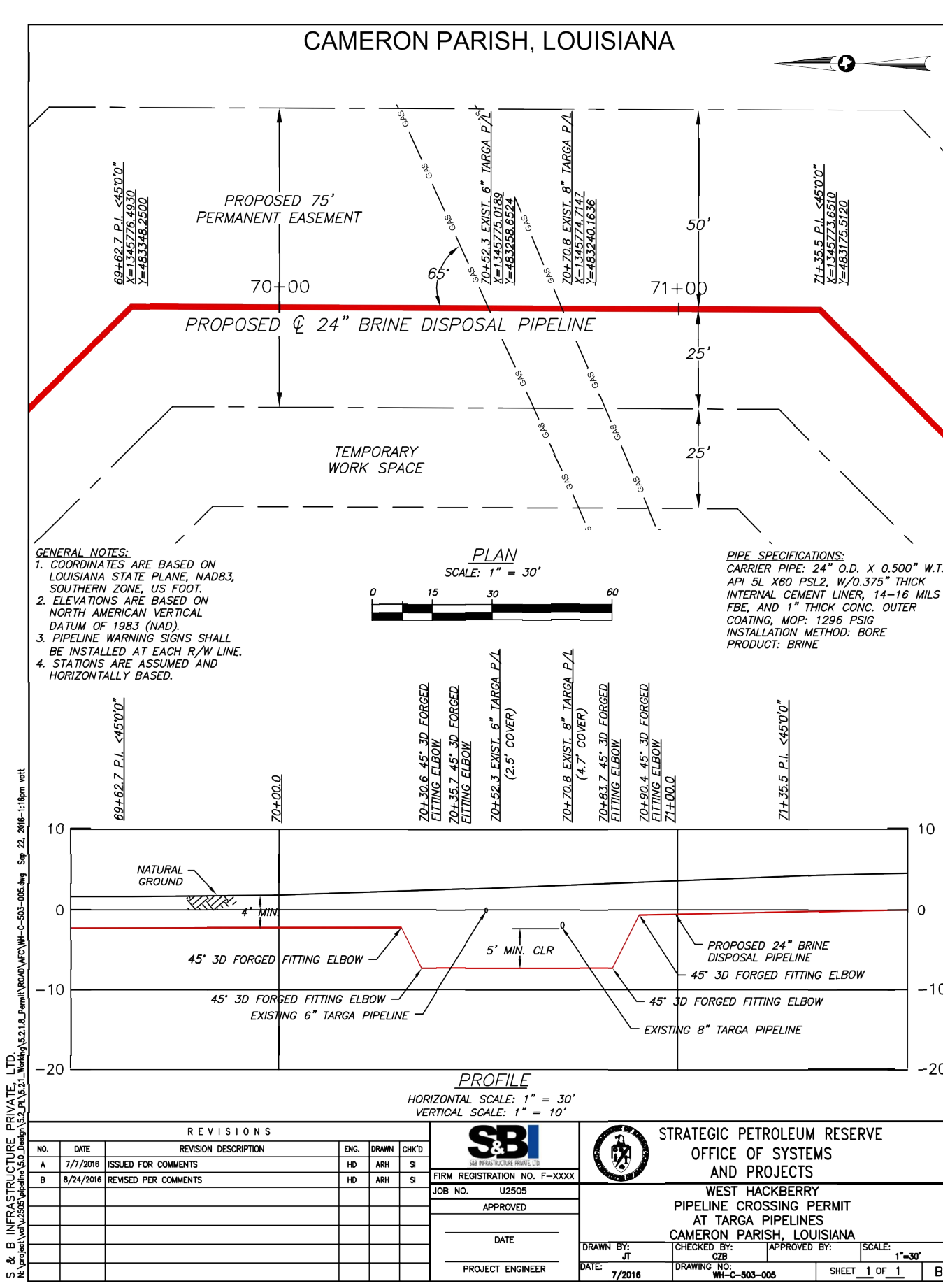
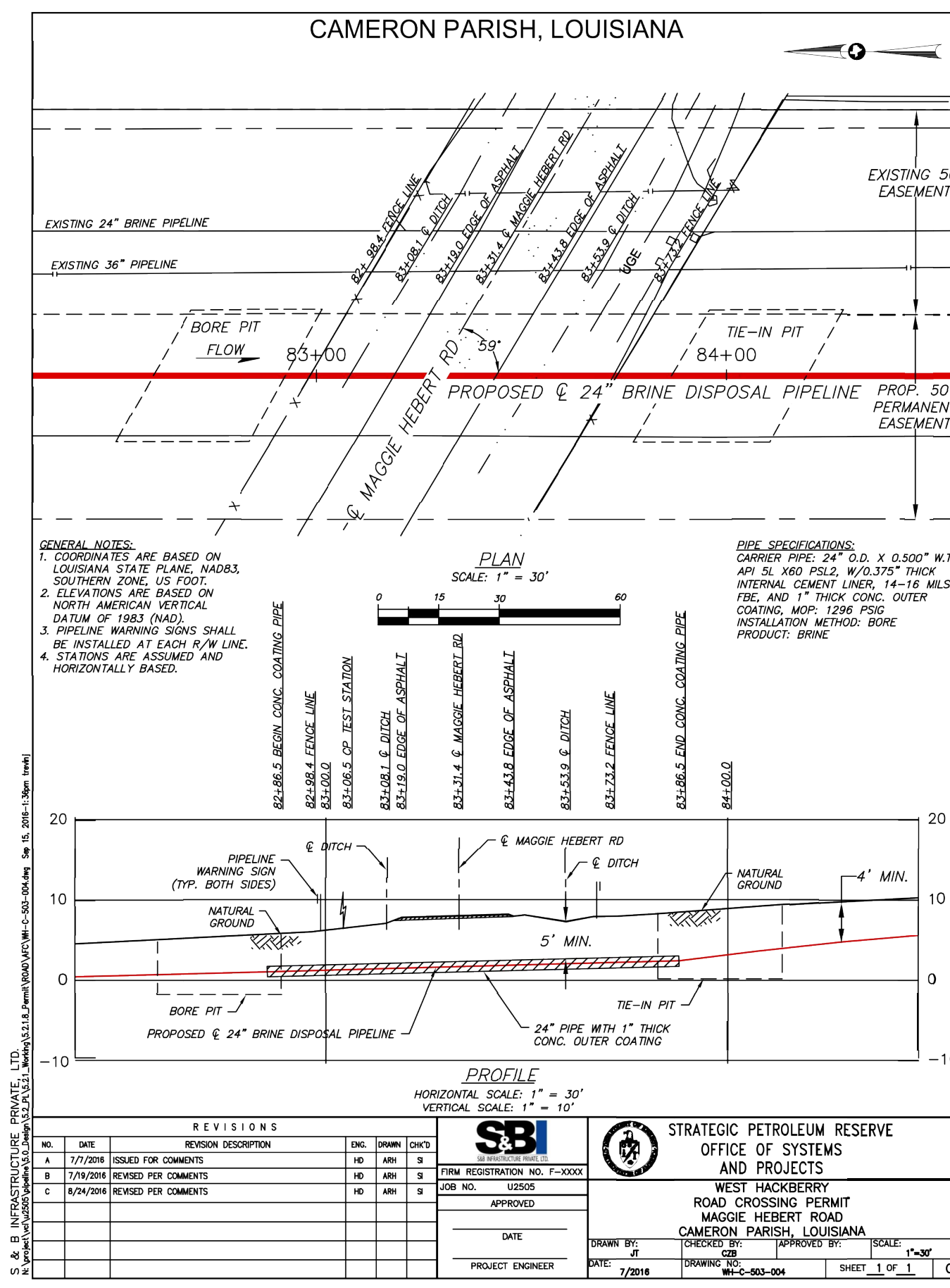
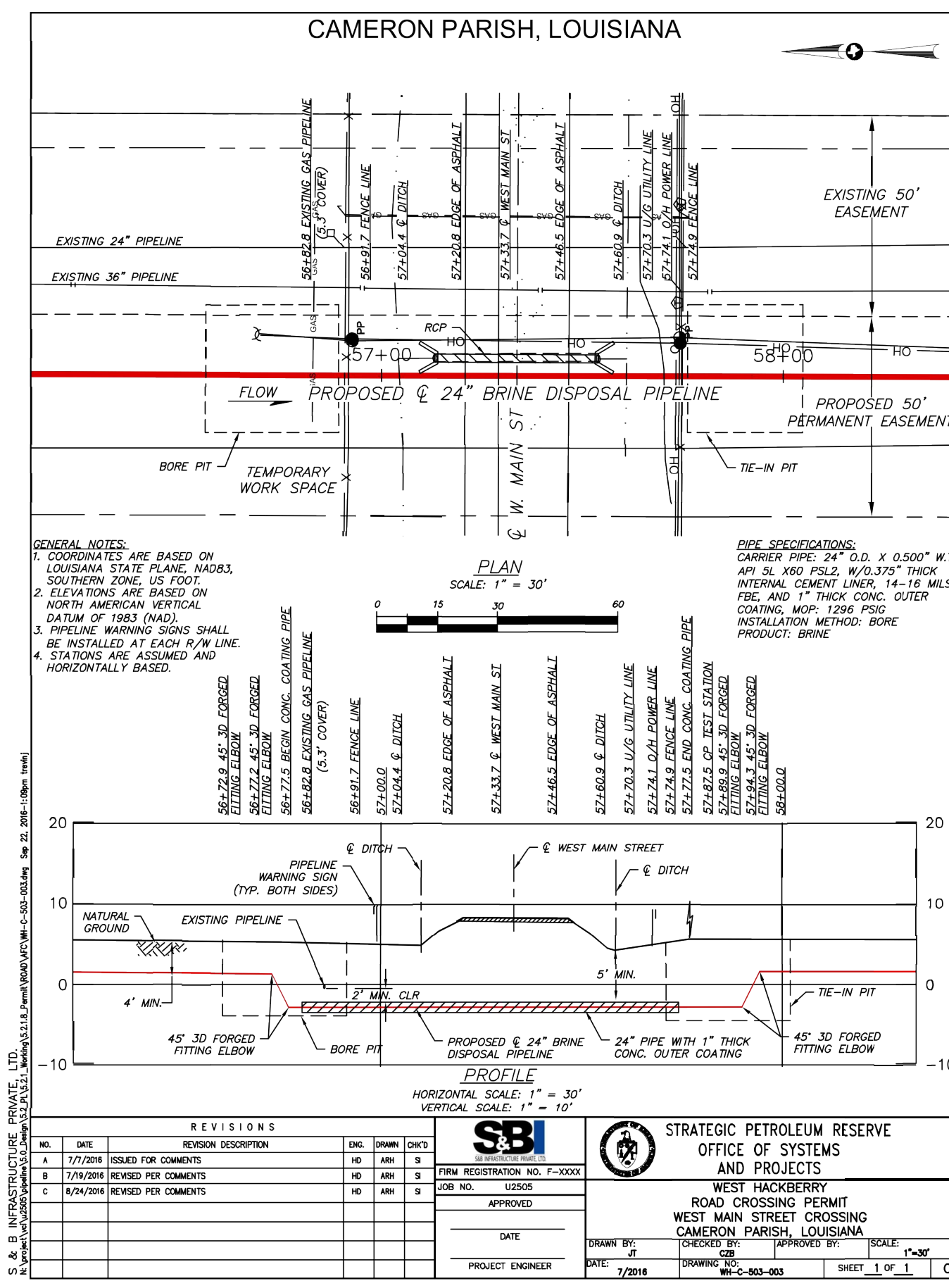
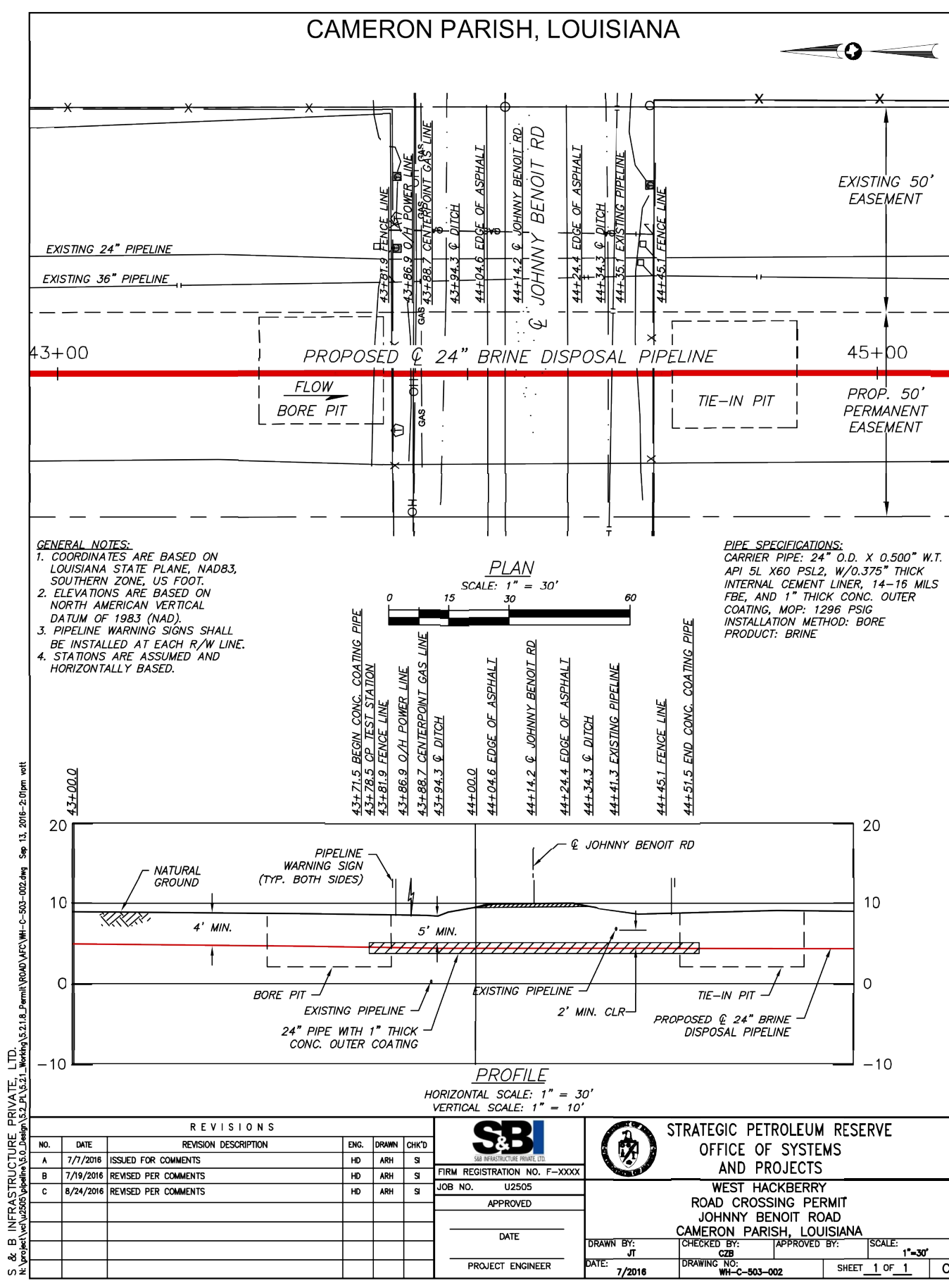
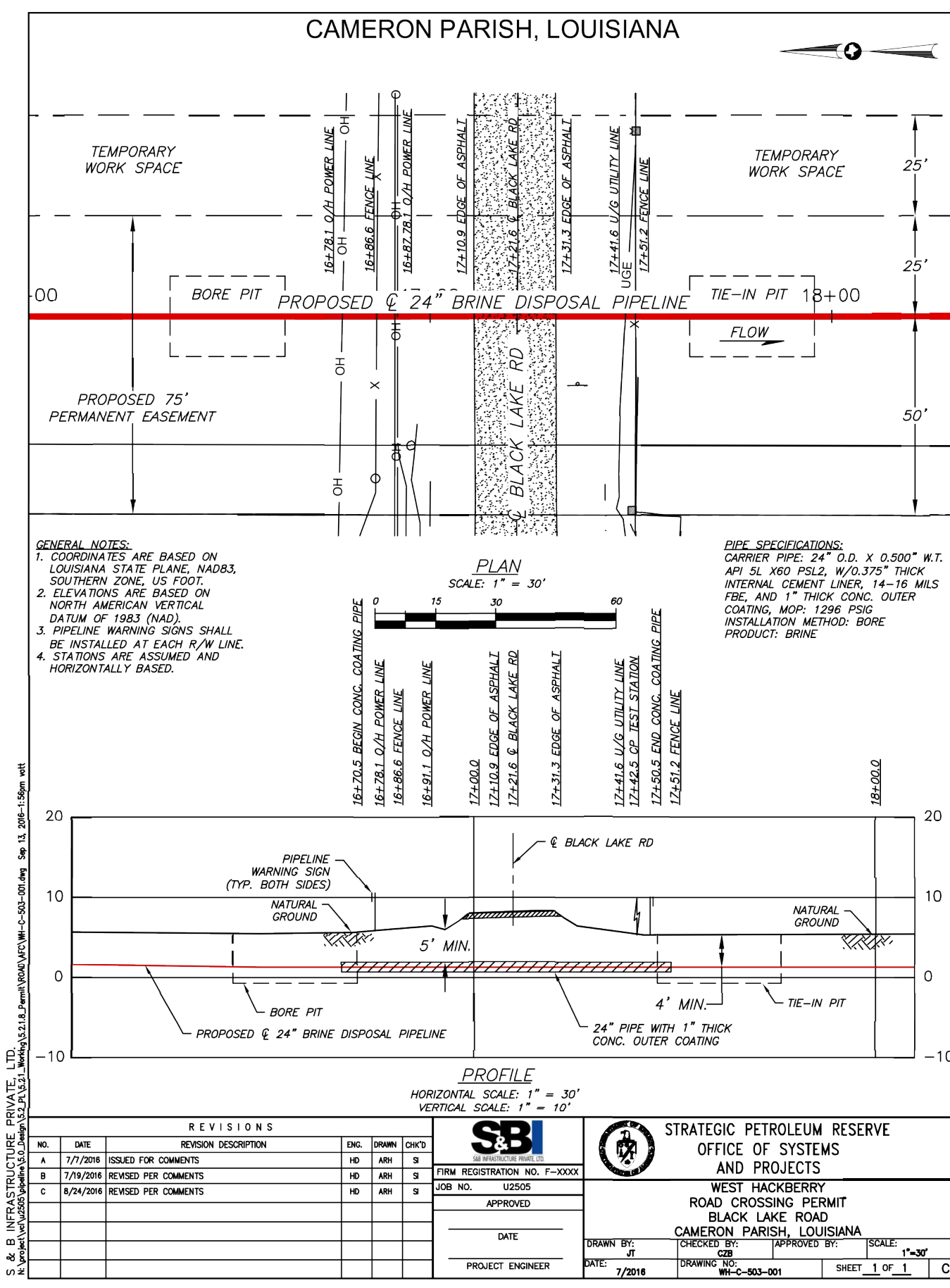
OFFICE OF SYSTEMS AND PROJECTS

STRATEGIC PETROLEUM RESERVE

APPROVED FOR CONSTRUCTION

TASK NUMBER: WH-MM-826	REV: 0
DISCIPLINE: MAPPING	
SCALE: HORIZONTAL: 1" = 100' PROFILE: 1" = 20'	
DRAWING NUMBER: WH-C-501-106	
SHEET C5 of 15	

ACAD FILENAME:



PIPELINE CAP ABANDONMENT DETAIL  
SCALE: N.T.S.

APPROVED FOR CONSTRUCTION FOR TASK NO. WH-MM-826 ONLY

CN 100 ISSUE INCLUDES ALL DETAILS ON THIS DOCUMENT

**S&B** S&B INFRASTRUCTURE, LTD. Texas Firm Registration Number: F-1582

**CHANGE NOTICE**

PREPARED BY	CHECKED BY	APPROVED BY	TDC/ERU
J.M. AVENT	C. BRIDENSTINE	H. NICHOLS	

Project Auth. #	Task #	RFI #
03191783	WH-MM-826	
Drawing #	Rev. #	CN #
WH-C-506-001	0	100

Sheet 1 of 1

**VCI** Project Management Construction Management Engineering

REGISTRATION STAMP	DESIGNED BY:
	DRAWN BY:
	CHECKED BY:
	SURVEYOR OF RECORD:
	SIGNATURE:
	DATE:

NO.	CHANGE DESCRIPTION	DRAWN BY	CHECKED BY	PROJECT ENGINEER	ENGINEER	D.O.E. APPROVAL	DATE	NO.	CHANGE DESCRIPTION	DRAWN BY	CHECKED BY	PROJECT ENGINEER	ENGINEER	D.O.E. APPROVAL	DATE

MISCELLANEOUS PERMITS  
 24" BRINE PIPELINE  
 WEST HACKBERRY SPR FACILITY  
 TO BRINE DISPOSAL WELL SITE PERMITS

WEST HACKBERRY  
 CAMERON PARISH, LOUISIANA

OFFICE OF SYSTEMS AND PROJECTS

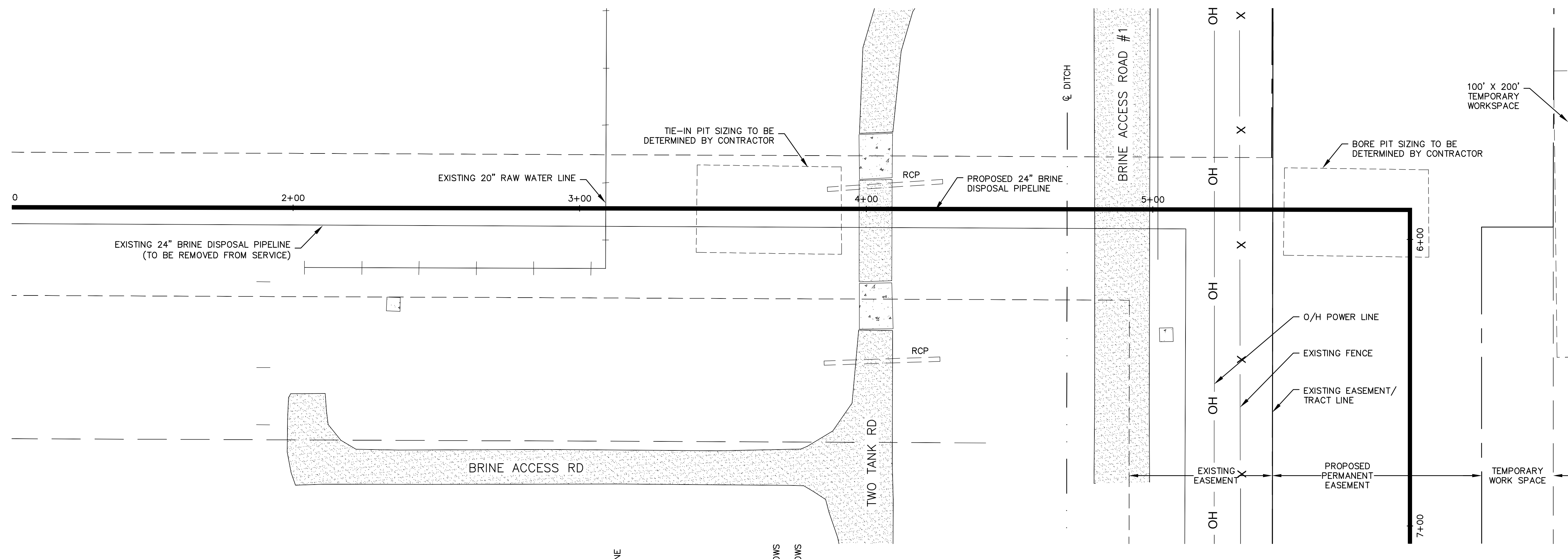
STRATEGIC PETROLEUM RESERVE

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 DISCIPLINE: MAPPING  
 SCALE: NONE  
 DRAWING NUMBER: WH-C-506-001

APPROVED FOR CONSTRUCTION DATE

SHEET 06 OF 15 REV. 0

A300-FL1100-01

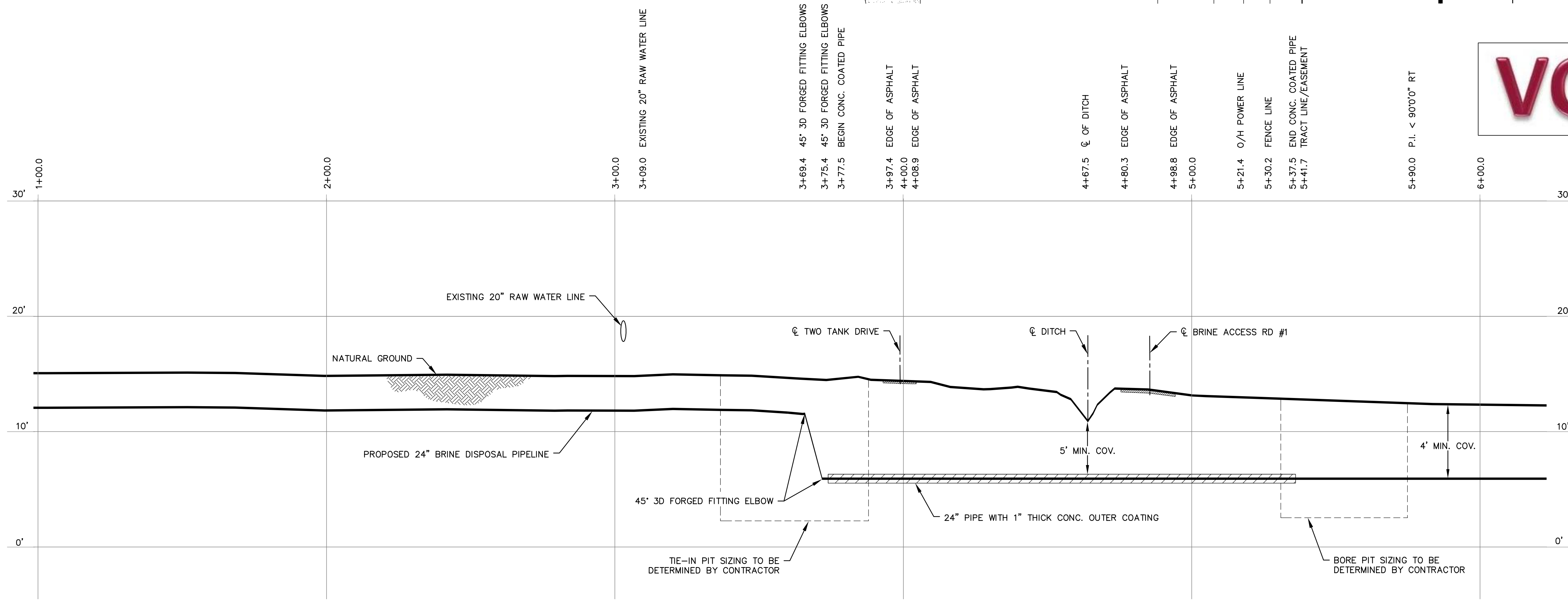
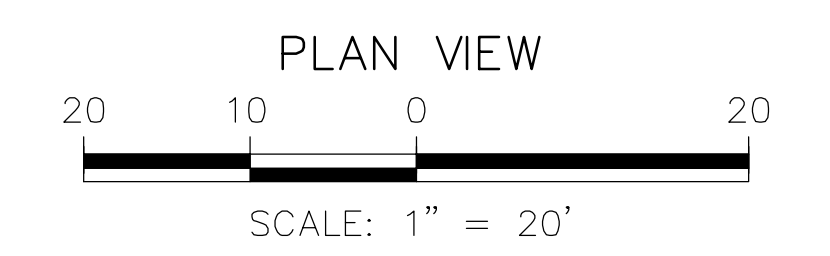


RELEASED FOR CONSTRUCTION  
CN REVISION NO. 100  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

**S&B** S&B INFRASTRUCTURE, LTD. Texas Firm Registration Number: F-1582

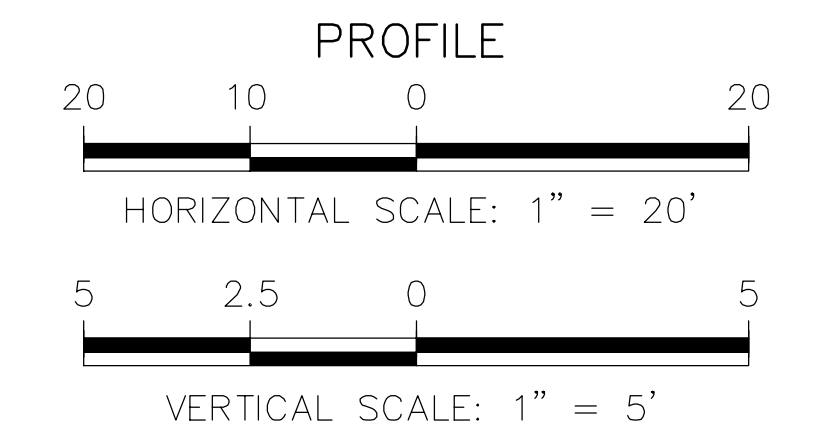
**CHANGE NOTICE**

PREPARED BY	CHECKED BY	APPROVED BY	TDC/ERU
J.M. AVENT	C. BRIDENSTINE	H. NICHOLS	
Project Auth. #	Task #	RFI #	
03191783	WH-MM-826		
Drawing #	Rev. #	CN #	
WH-C-509-033	0	100	
Sheet			1 OF 1



CN 100 ISSUE INCLUDES ALL  
DETAILS ON THIS DOCUMENT

APPROVED FOR CONSTRUCTION  
FOR TASK NO. WH-MM-826 ONLY



REGISTRATION STAMP	DESIGNED BY:
	DRAWN BY:
	CHECKED BY:
	SURVEYOR OF RECORD:
	SIGNATURE:
	DATE:

**NOTES:**

- CONTRACTOR TO FIELD VERIFY DIMENSION AND DEPTHS OF EXISTING PIPELINES AND UTILITIES PRIOR TO CONSTRUCTION.
- NEW 24" x 0.500" W.T. API-SL X-60 PIPELINE LIMITED TO 1296 PSIG MOP BY DESIGN.

NO.	CHANGE DESCRIPTION	DRAWN BY	CHECKED BY	PROJECT ENGINEER	ENGINEER MANAGER	D.O.E. APPROVAL	DATE	NO.	CHANGE DESCRIPTION	DRAWN BY	CHECKED BY	PROJECT ENGINEER	ENGINEER MANAGER	D.O.E. APPROVAL	DATE

PIPELINE DRAWINGS  
24" BRINE PIPELINE  
WEST HACKBERRY SPR FACILITY  
TO BRINE DISPOSAL WELL SITE  
PLANT SERVICE DRIVEWAYS

WEST HACKBERRY  
CAMERON PARISH, LOUISIANA

OFFICE OF SYSTEMS AND PROJECTS

STRATEGIC PETROLEUM RESERVE

APPROVED FOR CONSTRUCTION  
DATE: \_\_\_\_\_

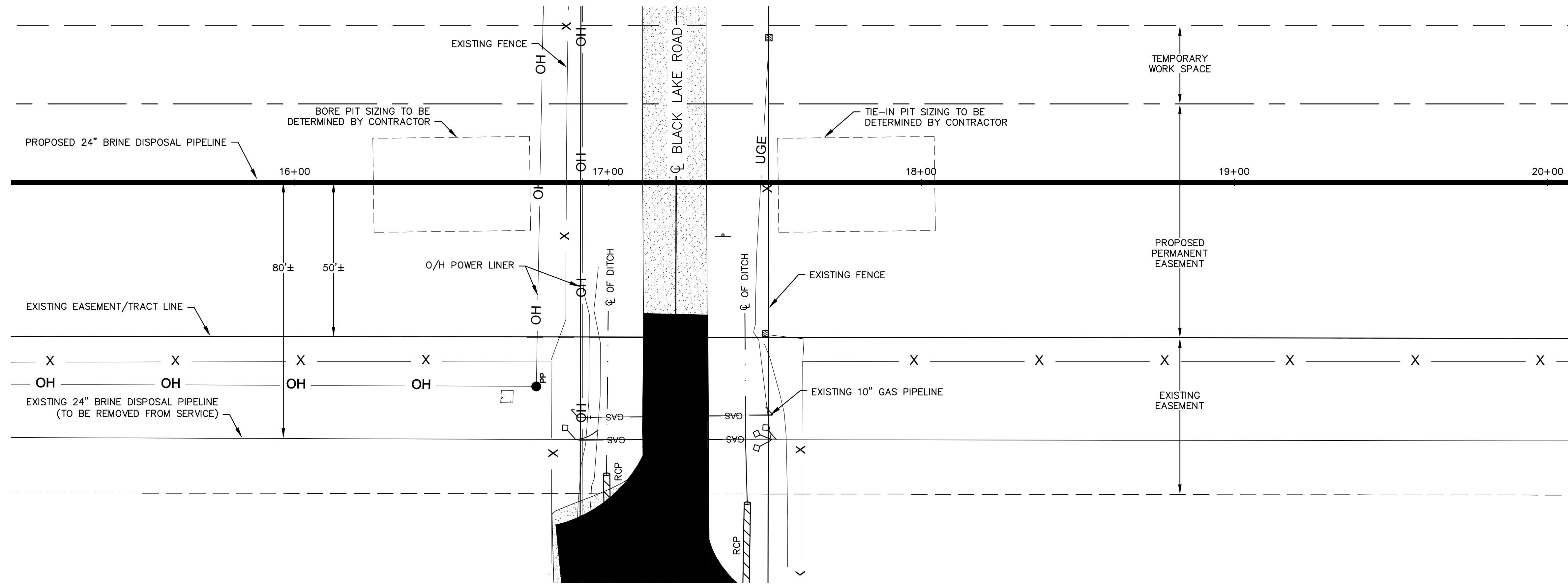
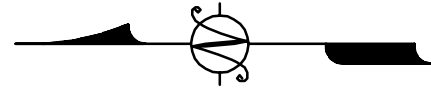
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DISCIPLINE: CIVIL  
SCALE: PLAN: 1"=20'  
PROFILE HORIZONTAL: 1"=20'  
PROFILE VERTICAL: 1"=5'

DRAWING NUMBER:  
WH-C-509-033

SHEET 07 OF 15 REV: 0

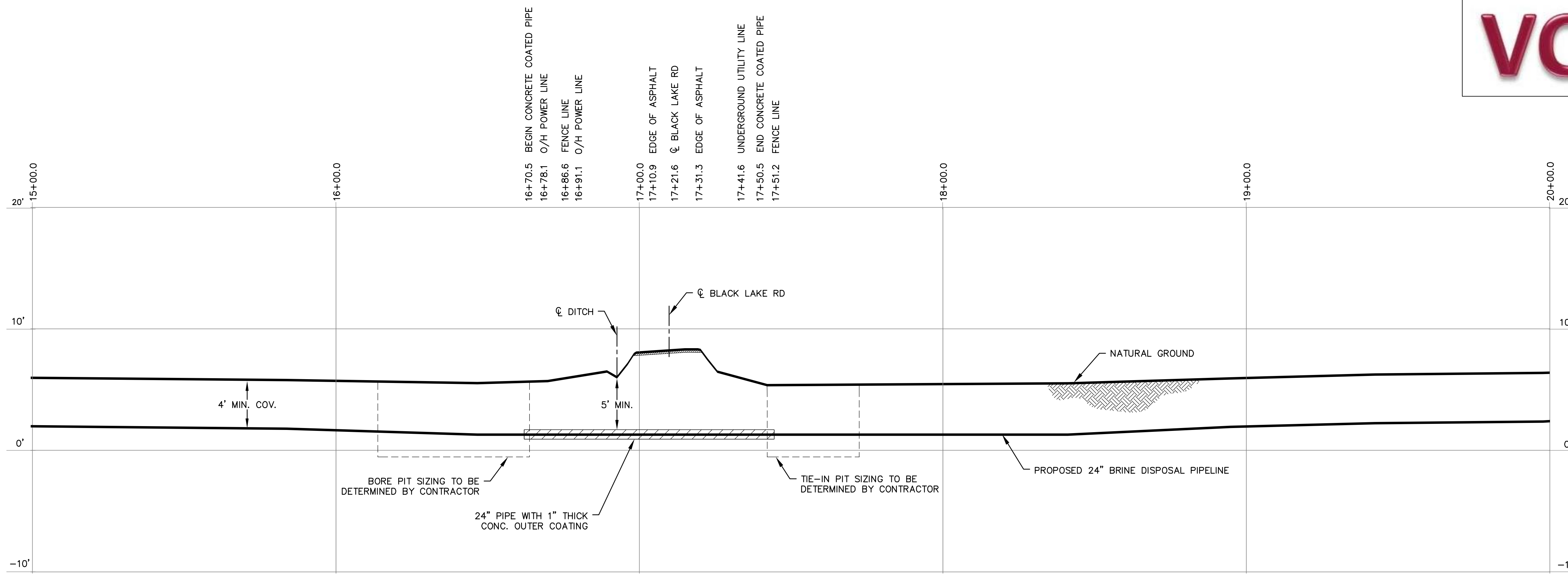
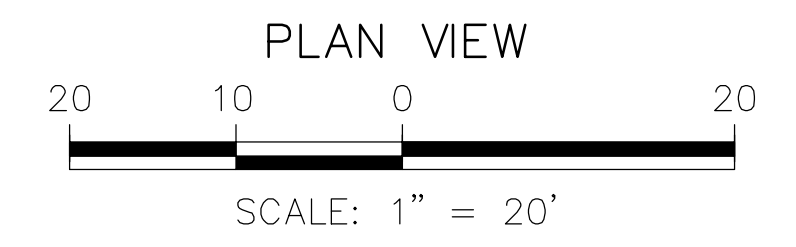
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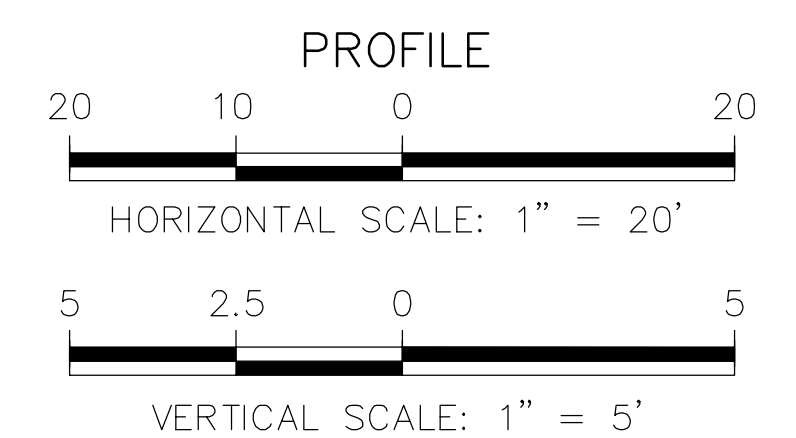
RELEASED FOR CONSTRUCTION  
CN REVISION NO. 100  
BY \_\_\_\_\_ DATE \_\_\_\_\_

<b>S&amp;B</b> S&B INFRASTRUCTURE, LTD.		S&B JOB NO. <u>LI-2505</u>	
		Texas Firm Registration Number: F-1582	
<b>CHANGE NOTICE</b>			
PREPARED BY	CHECKED BY	APPROVED BY	TDC/ERU
J.M. AVENT	C. BRIDENSTINE	H. NICHOLS	
Project Auth. #	Task #	RFI #	
03191783	WH-MM-826		
Drawing #	Rev. #	CN #	
WH-C-509-034	0	100	
Sheet		1 of 1	



CN 100 ISSUE INCLUDES ALL  
DETAILS ON THIS DOCUMENT

APPROVED FOR CONSTRUCTION  
FOR TASK NO. WH-MM-826 ONLY



REGISTRATION STAMP
DESIGNED BY:
DRAWN BY:
CHECKED BY:
SURVEYOR OF RECORD:
SIGNATURE:
DATE:
REVISION NUMBER

**NOTES:**

- CONTRACTOR TO FIELD VERIFY DIMENSION AND DEPTHS OF EXISTING PIPELINES AND UTILITIES PRIOR TO CONSTRUCTION.
- NEW 24" x 0.500" W.T. API-SL X-60 PIPELINE LIMITED TO 1296 PSIG MAOP BY DESIGN.

NO.	CHANGE DESCRIPTION	DRAWN BY	CHECKED BY	PROJECT ENGINEER	ENGINEER MANAGER	D.O.E. APPROVAL	DATE	NO.	CHANGE DESCRIPTION	DRAWN BY	CHECKED BY	PROJECT ENGINEER	ENGINEER MANAGER	D.O.E. APPROVAL	DATE

PIPELINE DRAWINGS  
24" BRINE PIPELINE  
WEST HACKBERRY SPR FACILITY  
TO BRINE DISPOSAL WELL SITE  
BLACK LAKE ROAD

WEST HACKBERRY  
CAMERON PARISH, LOUISIANA

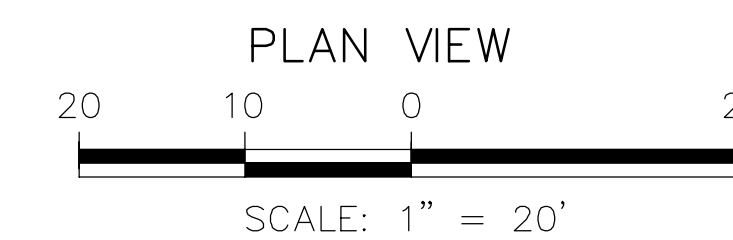
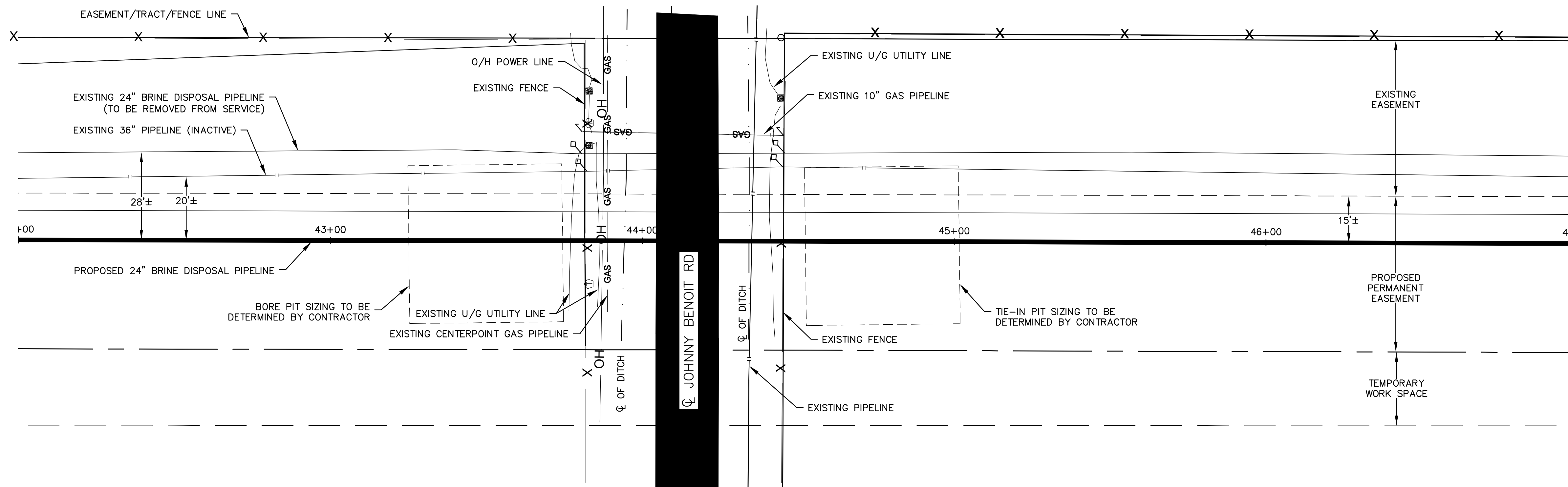
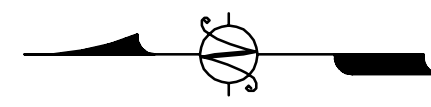
**OFFICE OF SYSTEMS AND PROJECTS**

STRATEGIC  
PETROLEUM  
RESERVE

APPROVED FOR CONSTRUCTION  
DATE \_\_\_\_\_

TASK NUMBER:	WH-MM-826
DISCIPLINE:	CIVIL
SCALE: PLAN:	1"=20'
SCALE: PROFILE HORIZONTAL:	1"=20'
SCALE: PROFILE VERTICAL:	1"=5'
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SHEET	08 of 15
REV.	0

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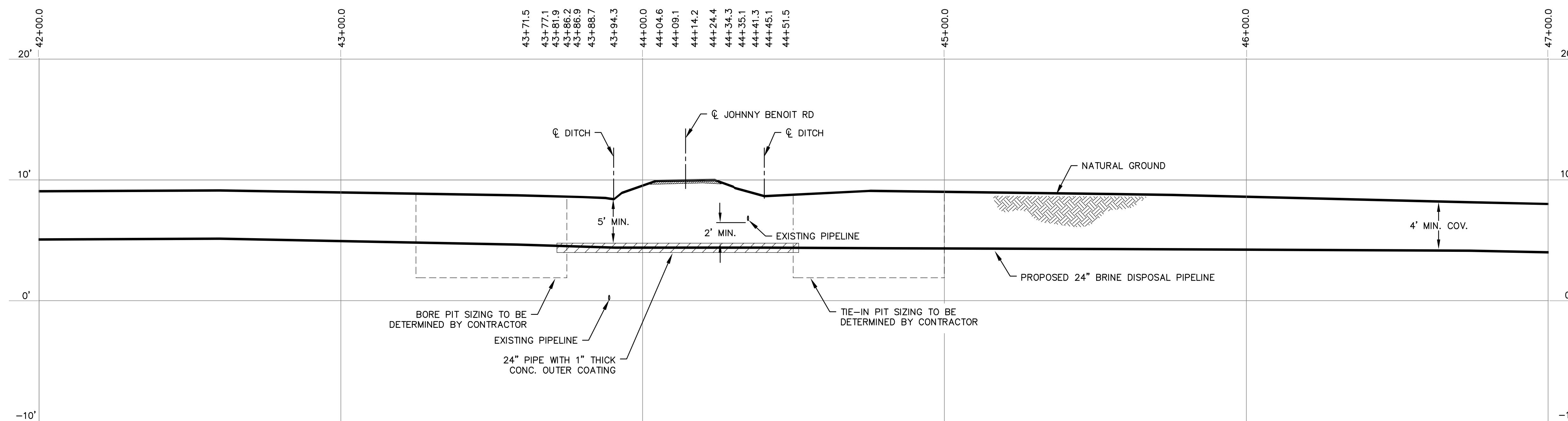


		S&B JOB NO. U-2205	
		Texas Firm Registration Number: F-1582	
<b>CHANGE NOTICE</b>			
PREPARED BY	CHECKED BY	APPROVED BY	TDC/ERU
J.M. AVENT	C. BRIDENSTINE	H. NICHOLS	
Project Auth. #	Task #	RFI #	
03191783	WH-MM-826		
Drawing #	Rev. #	CN #	
WH-C-509-035	0	100	
		Sheet 1 OF 1	



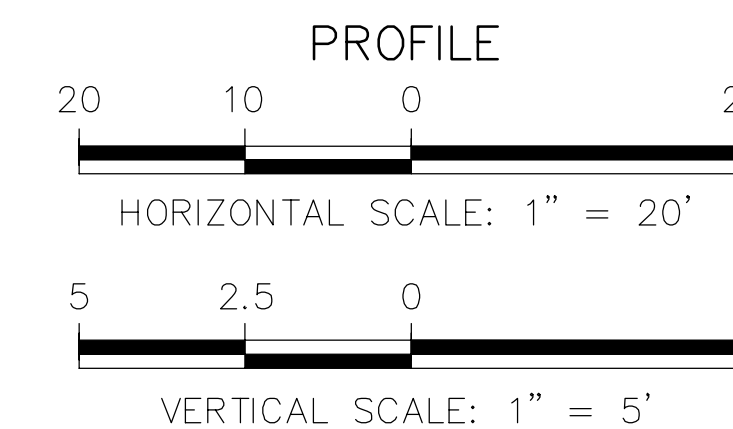
RELEASED FOR CONSTRUCTION  
CN REVISION NO. 100

- 43+71.5 BEGIN CONC. COATED PIPE
- 43+77.1 EXISTING U/G UTILITY LINE
- 43+81.9 FENCE LINE
- 43+86.2 EXISTING U/G UTILITY LINE
- 43+86.9 O/H POWERLINE
- 43+88.7 CENTERPOINT GAS PIPELINE
- 43+94.3  $\phi$  OF DITCH
- 44+00.0 EDGE OF ASPHALT
- 44+04.6 TRACT LINE
- 44+09.1  $\phi$  OF JOHNNY BENOIT RD
- 44+14.2 EDGE OF ASPHALT
- 44+24.4  $\phi$  OF DITCH
- 44+34.3 EXISTING PIPELINE
- 44+35.1 EXISTING U/G UTILITY LINE
- 44+41.3 FENCE LINE
- 44+45.1 END CONC. COATED PIPE



CN 100 ISSUE INCLUDES ALL  
DETAILS ON THIS DOCUMENT

APPROVED FOR CONSTRUCTION  
FOR TASK NO. WH-MM-826 ONLY



REGISTRATION STAMP	DESIGNED BY:
	DRAWN BY:
	CHECKED BY:
	SURVEYOR OF RECORD:
	SIGNATURE:
	DATE:

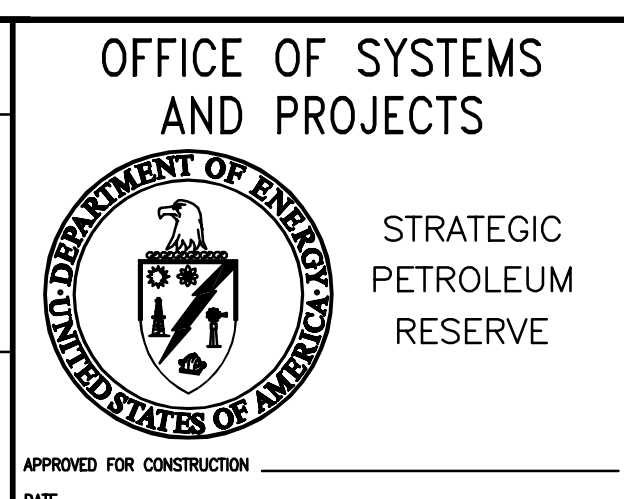
**NOTES:**

- CONTRACTOR TO FIELD VERIFY DIMENSION AND DEPTHS OF EXISTING PIPELINES AND UTILITIES PRIOR TO CONSTRUCTION.
- NEW 24" x 0.500" W.T. API-5L X-60 PIPELINE LIMITED TO 1296 PSIG MAOP BY DESIGN.

NO.	CHANGE DESCRIPTION	DRAWN BY	CHECKED BY	PROJECT ENGINEER	ENGINEER MANAGER	D.O.E. APPROVAL	DATE	NO.	CHANGE DESCRIPTION	DRAWN BY	CHECKED BY	PROJECT ENGINEER	ENGINEER MANAGER	D.O.E. APPROVAL	DATE

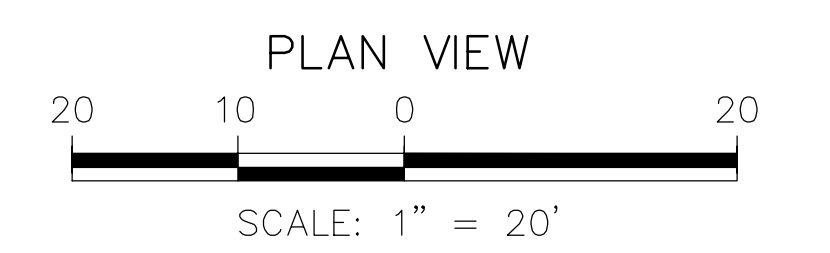
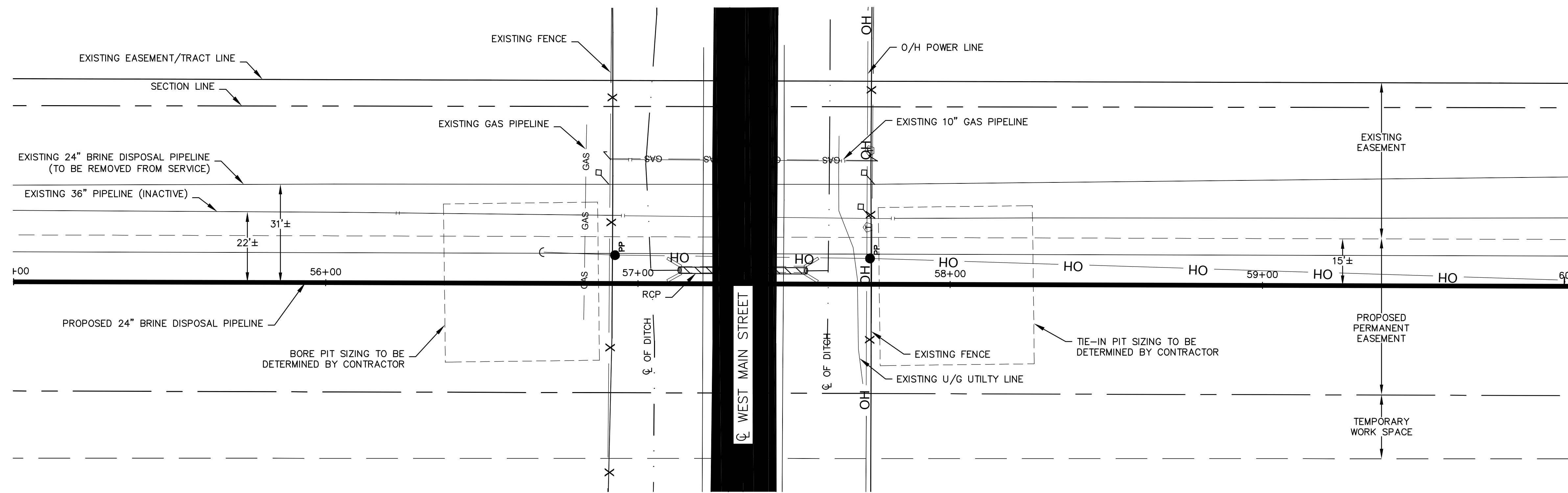
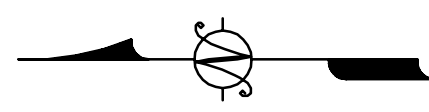
PIPELINE DRAWINGS  
24" BRINE PIPELINE  
WEST HACKBERRY SPR FACILITY  
TO BRINE DISPOSAL WELL SITE  
JOHNNY BENOIT ROAD

WEST HACKBERRY  
CAMERON PARISH, LOUISIANA

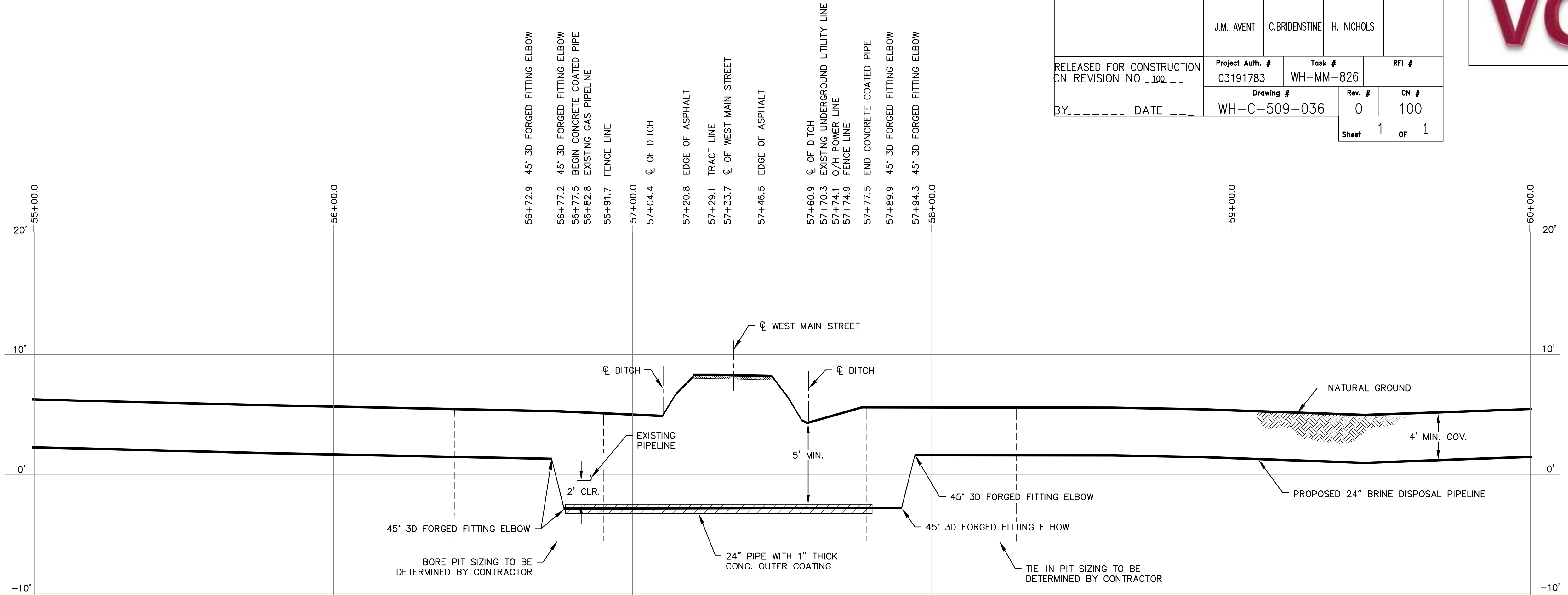


TASK NUMBER:	WH-MM-826
DISCIPLINE:	CIVIL
SCALE: PLAN: 1"=20'	PROFILE HORIZONTAL: 1"=20'
PROFILE VERTICAL: 1"=5'	
DRAWING NUMBER:	WH-C-509-035
SHEET	C9 OF 15
REV.	0

ACAD FILENAME:

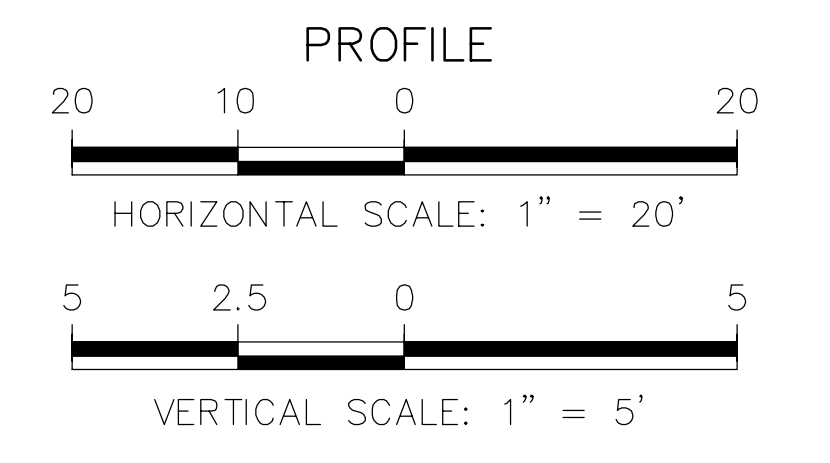


		S&B JOB NO. U-2005	
		Texas Firm Registration Number: F-1582	
<b>CHANGE NOTICE</b>			
PREPARED BY	CHECKED BY	APPROVED BY	TDC/ERU
J.M. AVENT	C. BRIDENSTINE	H. NICHOLS	
Project Auth. #	Task #	RFI #	
03191783	WH-MM-826		
Drawing #	Rev. #	CN #	
WH-C-509-036	0	100	
		Sheet 1 OF 1	



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**APPROVED FOR CONSTRUCTION FOR TASK NO. WH-MM-826 ONLY**



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	DRAWN BY:
	CHECKED BY:
	SURVEYOR OF RECORD:
	SIGNATURE:
	DATE:

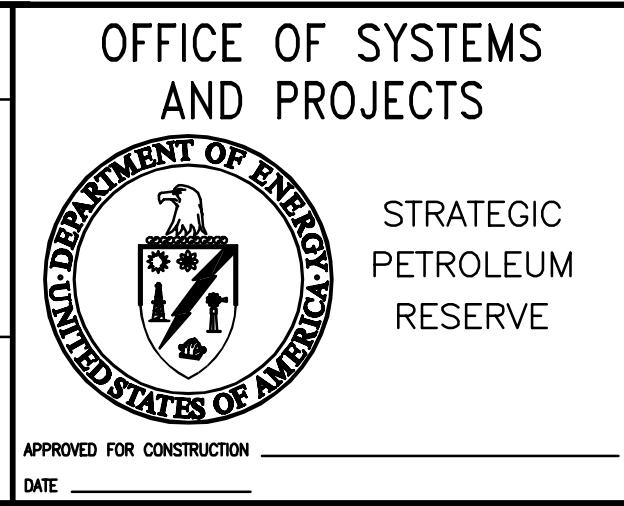
**NOTES:**

- CONTRACTOR TO FIELD VERIFY DIMENSION AND DEPTHS OF EXISTING PIPELINES AND UTILITIES PRIOR TO CONSTRUCTION.
- NEW 24" x 0.500" W.T. API-SL X-60 PIPELINE LIMITED TO 1296 PSIG MAOP BY DESIGN.

NO.	CHANGE DESCRIPTION	DRAWN BY	CHECKED BY	PROJECT ENGINEER	ENGINEER MANAGER	D.O.E. APPROVAL	DATE	NO.	CHANGE DESCRIPTION	DRAWN BY	CHECKED BY	PROJECT ENGINEER	ENGINEER MANAGER	D.O.E. APPROVAL	DATE

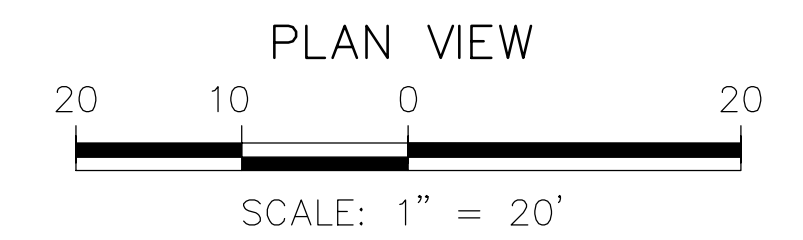
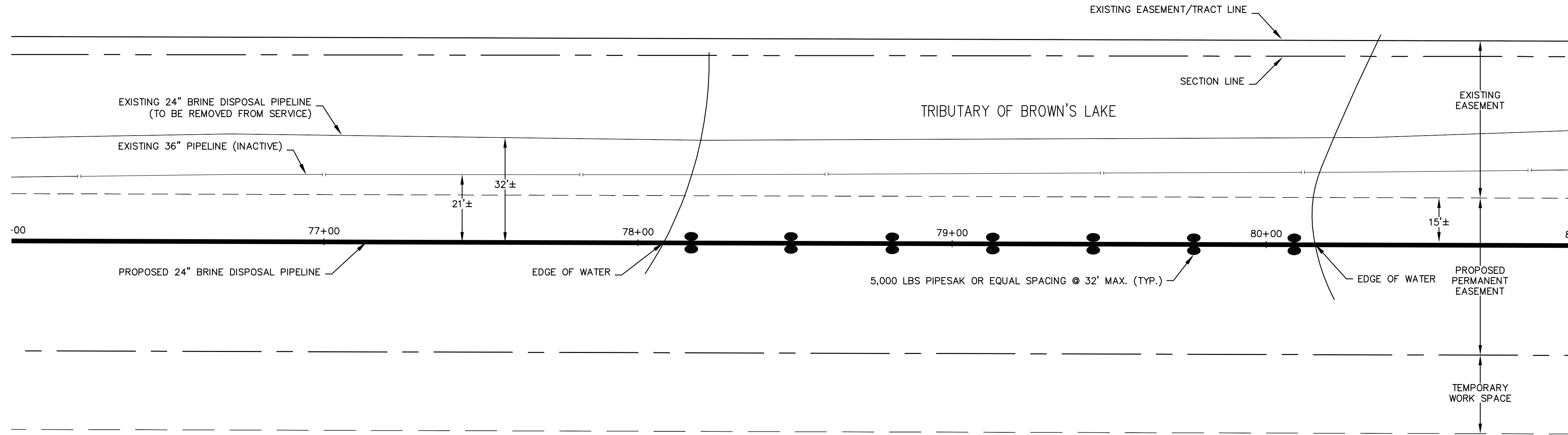
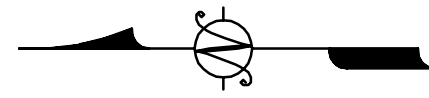
PIPELINE DRAWINGS  
 24" BRINE PIPELINE  
 WEST HACKBERRY SPR FACILITY  
 TO BRINE DISPOSAL WELL SITE  
 WEST MAIN STREET

WEST HACKBERRY  
 CAMERON PARISH, LOUISIANA



TASK NUMBER:	WH-MM-826
DISCIPLINE:	CIVIL
DRAWING NUMBER:	WH-C-509-036
SHEET	C10 of 15
REV.	0

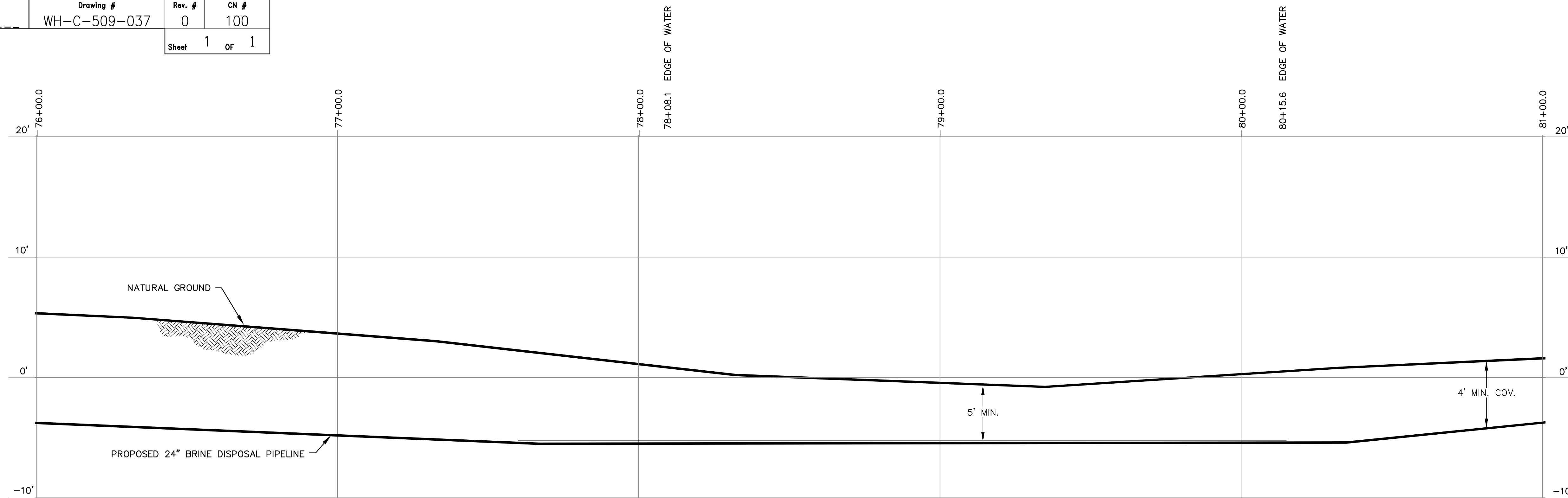
ACAD FILENAME:



		S&B JOB NO. U-2592	
		Texas Firm Registration Number: F-1582	
<b>CHANGE NOTICE</b>			
PREPARED BY	CHECKED BY	APPROVED BY	TDC/ERU
J.M. AVENT	C. BRIDENSTINE	H. NICHOLS	
Project Auth. #	Task #	RFI #	
03191783	WH-MM-826		
Drawing #	Rev. #	CN #	
WH-C-509-037	0	100	
Sheet 1 OF 1			

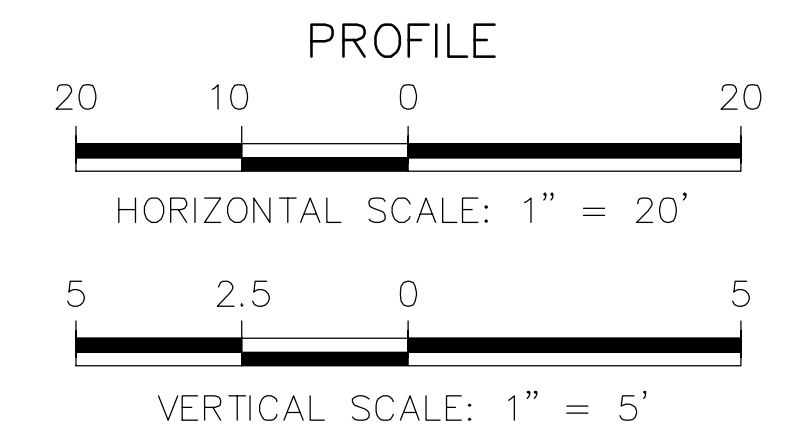


RELEASED FOR CONSTRUCTION  
CN REVISION NO. 100  
BY \_\_\_\_\_ DATE \_\_\_\_\_



CN 100 ISSUE INCLUDES ALL  
DETAILS ON THIS DOCUMENT

APPROVED FOR CONSTRUCTION  
FOR TASK NO. WH-MM-826 ONLY



REGISTRATION STAMP	DESIGNED BY:
REVISION _____	DRAWN BY:
NUMBER _____	CHECKED BY:
	SURVEYOR OF RECORD:
	SIGNATURE:
	DATE:

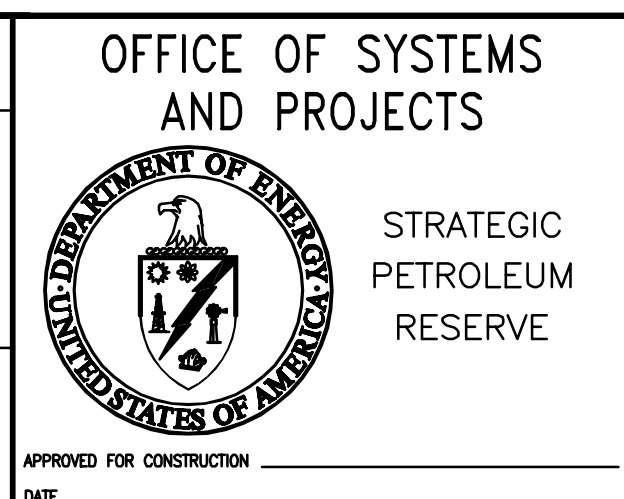
**NOTES:**

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- NEW 24" x 0.500" W.T. API-SL X-60 PIPELINE LIMITED TO 1296 PSIG MAOP BY DESIGN.

NO.	CHANGE DESCRIPTION	DRAWN BY	CHECKED BY	PROJECT ENGINEER	ENGINEERING MANAGER	D.O.E. APPROVAL	DATE	NO.	CHANGE DESCRIPTION	DRAWN BY	CHECKED BY	PROJECT ENGINEER	ENGINEERING MANAGER	D.O.E. APPROVAL	DATE

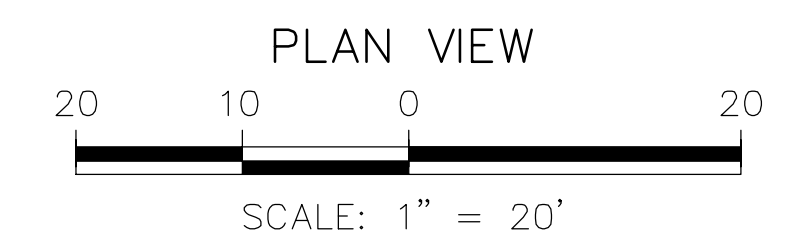
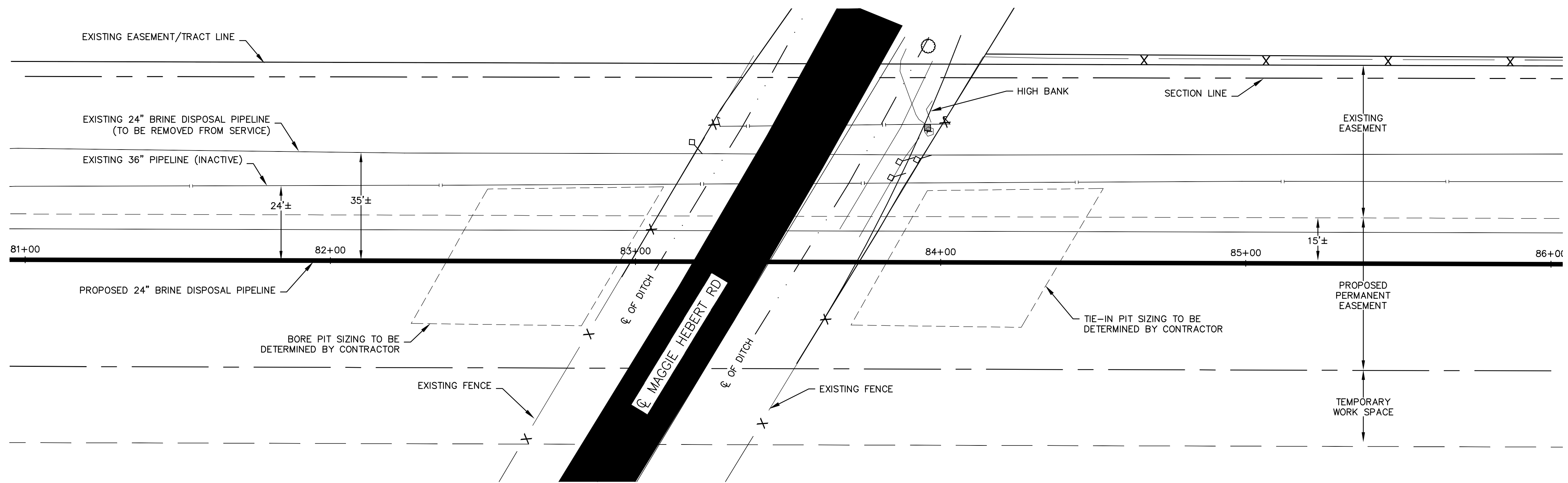
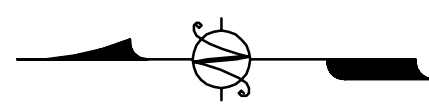
PIPELINE DRAWINGS  
24" BRINE PIPELINE  
WEST HACKBERRY SPR FACILITY  
TO BRINE DISPOSAL WELL SITE  
TRIBUTARY OF BROWN'S LAKE

WEST HACKBERRY  
CAMERON PARISH, LOUISIANA

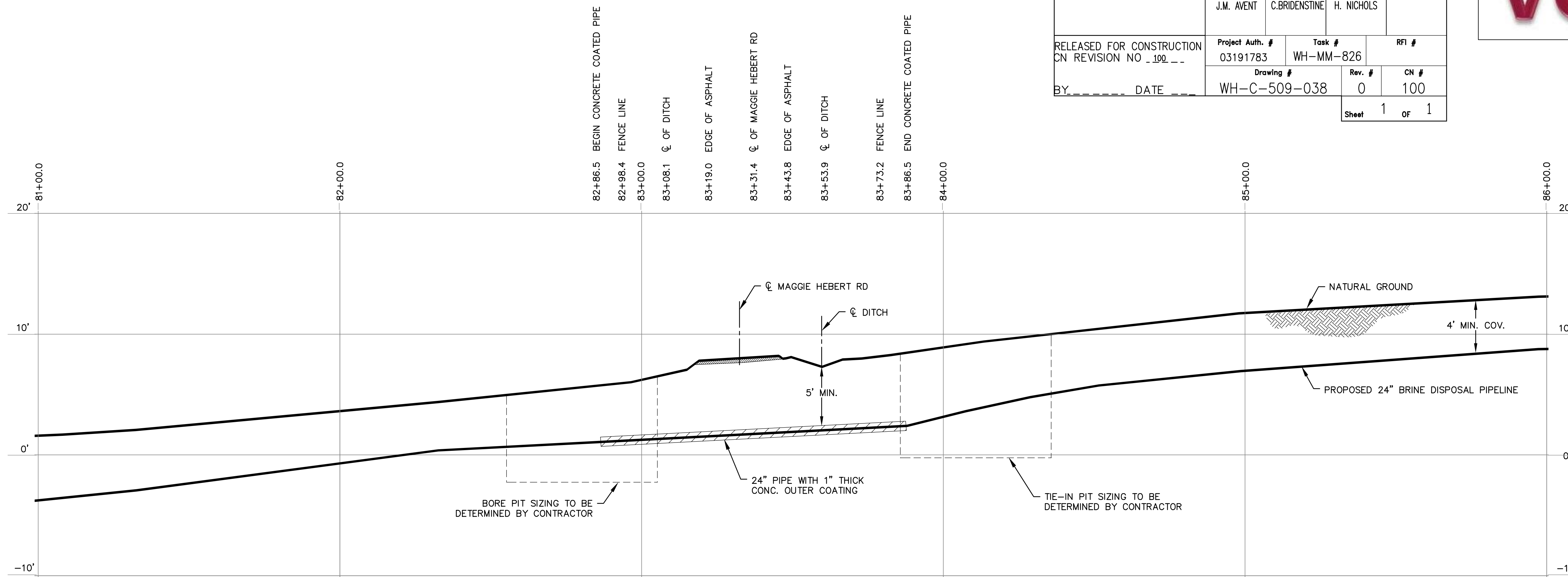


TASK NUMBER:	WH-MM-826
DISCIPLINE:	CIVIL
SCALE: PLAN:	1"=20'
SCALE: PROFILE HORIZONTAL:	1"=20'
SCALE: PROFILE VERTICAL:	1"=5'
DRAWING NUMBER:	WH-C-509-037
SHEET	C11 of 15
REV.	0

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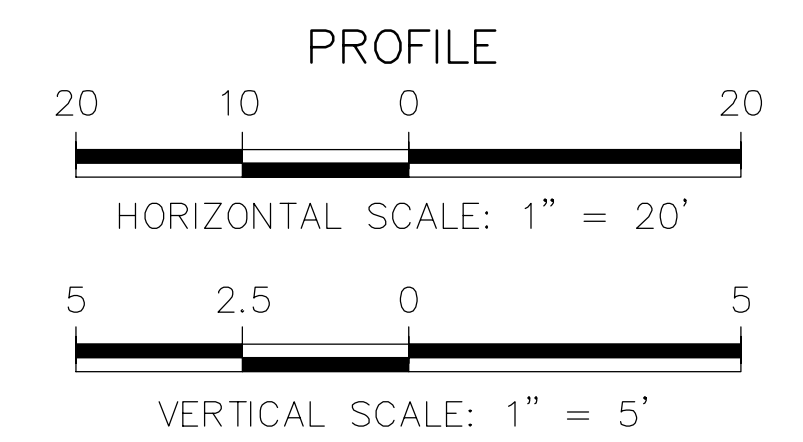


		S&B JOB NO. U-2008	
S&B INFRASTRUCTURE, LTD.		Texas Firm Registration Number: F-1582	
<b>CHANGE NOTICE</b>			
PREPARED BY	CHECKED BY	APPROVED BY	TDC/ERU
J.M. AVENT	C. BRIDENSTINE	H. NICHOLS	
Project Auth. #	Task #	RFI #	
03191783	WH-MM-826		
Drawing #	Rev. #	CN #	
WH-C-509-038	0	100	
Sheet	1 OF 1		



CN 100 ISSUE INCLUDES ALL DETAILS ON THIS DOCUMENT

APPROVED FOR CONSTRUCTION FOR TASK NO. WH-MM-826 ONLY



REGISTRATION STAMP	DESIGNED BY:
REVISION NUMBER	DRAWN BY:
	CHECKED BY:
	SURVEYOR OF RECORD:
	SIGNATURE:
	DATE:

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NO.	CHANGE DESCRIPTION	DRAWN BY	CHECKED BY	PROJECT ENGINEER	ENGINEER MANAGER	D.O.E. APPROVAL	DATE	NO.	CHANGE DESCRIPTION	DRAWN BY	CHECKED BY	PROJECT ENGINEER	ENGINEER MANAGER	D.O.E. APPROVAL	DATE

PIPELINE DRAWINGS  
24" BRINE PIPELINE  
WEST HACKBERRY SPR FACILITY  
TO BRINE DISPOSAL WELL SITE  
MAGGIE HEBERT ROAD

WEST HACKBERRY  
CAMERON PARISH, LOUISIANA

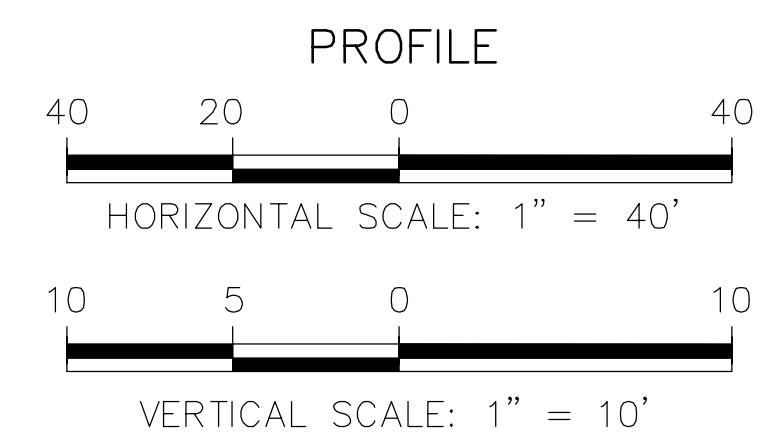
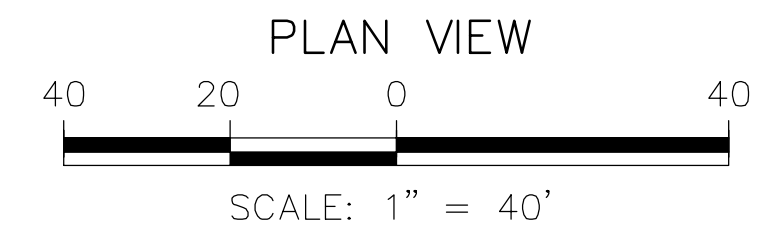
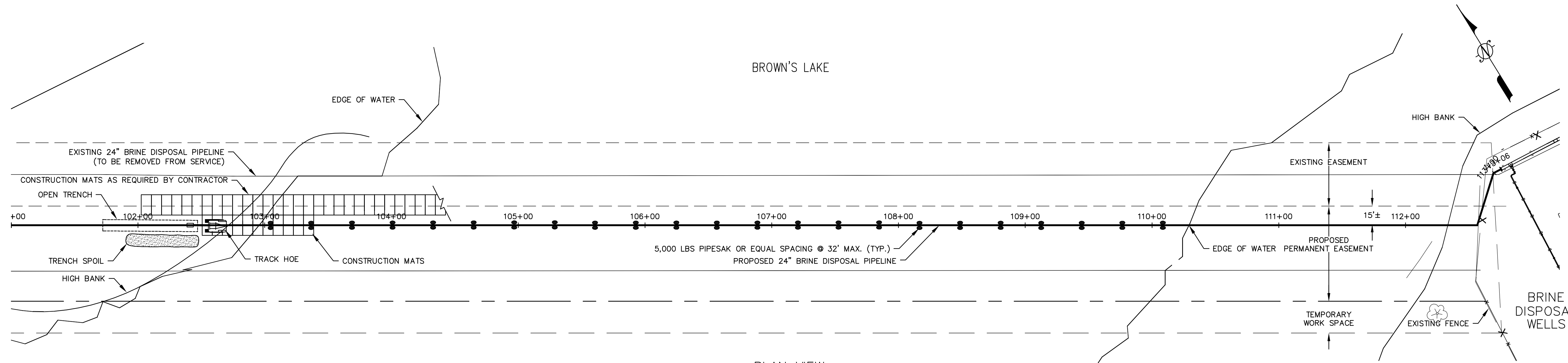
OFFICE OF SYSTEMS AND PROJECTS

STRATEGIC PETROLEUM RESERVE

APPROVED FOR CONSTRUCTION

TASK NUMBER:	WH-MM-826
DISCIPLINE:	CIVIL
SCALE: PLAN: 1"=20'	PROFILE HORIZONTAL: 1"=20'
PROFILE VERTICAL: 1"=5'	
DRAWING NUMBER:	WH-C-509-038
SHEET	C12 of 15
REV:	0

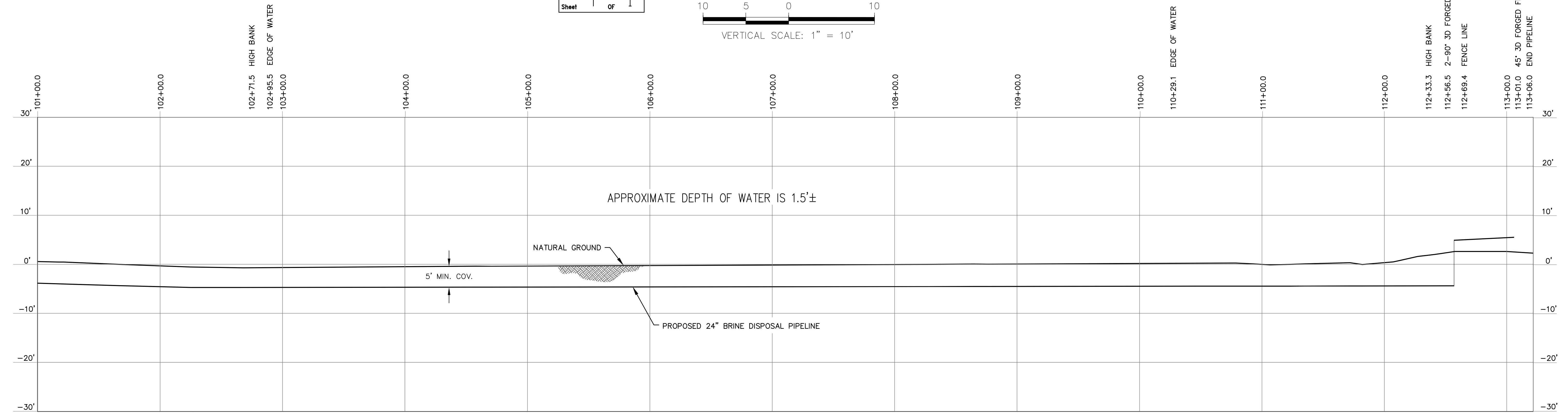
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APPROVED FOR CONSTRUCTION  
FOR TASK NO. WH-MM-826 ONLY

S&B INFRASTRUCTURE, LTD. Texas Firm Registration Number: F-1582		S&B JOB NO. U-2505	
		CHANGE NOTICE	
PREPARED BY	CHECKED BY	APPROVED BY	TDC/ERU
J.M. AVENT	C. BRIDENSTINE	H. NICHOLS	
RELEASED FOR CONSTRUCTION CN REVISION NO. 100	Project Auth. # 03191783	Task # WH-MM-826	RFI #
BY _____ DATE _____	Drawing # WH-C-509-039	Rev. # 0	CN # 100
	Sheet 1 OF 1		

CN 100 ISSUE INCLUDES ALL  
DETAILS ON THIS DOCUMENT



REGISTRATION STAMP	DESIGNED BY:
REVISION NUMBER	DRAWN BY:
	CHECKED BY:
	SURVEYOR OF RECORD:
	SIGNATURE:
	DATE:

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NO.	CHANGE DESCRIPTION	DRAWN BY	CHECKED BY	PROJECT ENGINEER	ENGINEER MANAGER	D.O.E. APPROVAL	DATE	NO.	CHANGE DESCRIPTION	DRAWN BY	CHECKED BY	PROJECT ENGINEER	ENGINEER MANAGER	D.O.E. APPROVAL	DATE

PIPELINE DRAWINGS  
24" BRINE PIPELINE  
WEST HACKBERRY SPR FACILITY  
TO BRINE DISPOSAL WELL SITE  
BROWN'S LAKE

WEST HACKBERRY  
CAMERON PARISH, LOUISIANA

OFFICE OF SYSTEMS AND PROJECTS

STRATEGIC PETROLEUM RESERVE

APPROVED FOR CONSTRUCTION DATE \_\_\_\_\_

TASK NUMBER: WH-MM-826	REV.:
DISCIPLINE: CIVIL	0
SCALE: PLAN: 1"=40' PROFILE HORIZONTAL: 1"=40' PROFILE VERTICAL: 1"=10'	
DRAWING NUMBER: WH-C-509-039	
SHEET C13 OF 15	

ACAD FILENAME: