JOINT PUBLIC NOTICE

January 27, 2020

United States Army Corps of Engineers New Orleans District Regulatory Branch, ODR-E Room 280 7400 Leake Avenue New Orleans, Louisiana 70118

(504) 862-1564 <u>Stephanie.L.Castaing@usace.army.mil</u> Project Manager Stephanie Castaing Permit Application Number MVN-2019-0343-EPP State of Louisiana Department of Environmental Quality ATTN: Water Quality Certifications

Post Office Box 4313 Baton Rouge, Louisiana 70821-4313

(225) 219-3225

Project Manager Elizabeth Hill WQC Application Number WQC 200109-01

Interested parties are hereby notified that a permit application has been received by the New Orleans District of the U.S. Army Corps of Engineers pursuant to: [X] Section 10 of the Rivers and Harbors Act of March 3, 1899 (30 Stat. 1151; 33 USC 403); and/or [X] Section 404 of the Clean Water Act (86 Stat. 816; 33 USC 1344).

Application has also been made to the Louisiana Department of Environmental Quality, Water Quality Certifications, for a Water Quality Certification (WQC) in accordance with statutory authority contained in LRS30:2047 A(3), and provisions of Section 401 of the Clean Water Act (P.L.95-17).

NEW 12" DIAMETER HYDROGEN PIPELINE IN ST. CHARLES, JEFFERSON, AND PLAQUEMINES PARISHES.

<u>NAME OF APPLICANT</u>: Phillips 66, c/o Morris P. Hebert, Inc., Attention: Timothy Robertson, 8724 Jefferson Highway, Baton Rouge, Louisiana 70809.

LOCATION OF WORK: Project site is located in St. Charles, Jefferson, and Plaquemines Parishes, in Louisiana, as shown on the attached drawings.

 POB:
 Latitude:
 29.921364
 Longitude:
 -90.348911

 POE:
 Latitude:
 29.684492
 Longitude:
 -89.9802

Hydrologic Unit Codes: 08090301, East Central Louisiana Coastal

<u>CHARACTER OF WORK:</u> Clear, grade, excavate and fill for a new 12" diameter hydrogen pipeline from an existing Luling facility to the Alliance Refinery, to include the installation of four (4) valve and meter sites and intermediate platform valve site. The pipeline will be installed via open cut and horizontal directional drills, and bores under roadways, waterways and levees. The project as proposed would directly impact 60.8 acres (permanently) and 108.3 acres (temporarily) of jurisdictional wetlands and 208.8 acres of other waters. The applicant proposed to contract with an approved mitigation bank in order to offset the adverse impact to jurisdictional wetlands.

The comment period for the Department of the Army Permit and the Louisiana Department of Environmental Quality WQC will close 20 days from the date of this joint public notice. Written comments, including suggestions for modifications or objections to the proposed work, stating reasons thereof, are being solicited from anyone having interest in this permit and/or this WQC request and must be mailed so as to be received before or by the last day of the comment period. Letters concerning the Corps of Engineers permit application must reference the applicant's name and the Permit Application Number, and be mailed to the Corps of Engineers at the address above, ATTENTION: REGULATORY BRANCH. Similar letters concerning the Water Quality Certification must reference the applicant's name and the WQC Application number and be mailed to the Louisiana Department of Environmental Quality at the address above. Individuals or parties may request an extension of time in which to comment on the proposed work by writing or e-mailing the Corps of Engineers Project Manager listed above. Any request must be specific and substantively supportive of the requested extension, and received by this office prior to the end of the initial comment period. The Section Chief will review the request and the requestor will be promptly notified of the decision to grant or deny the request. If granted, the time extension will be continuous to the initial comment period and, inclusive of the initial comment period, will not exceed a total of 30 calendar days.

The application for this proposed project is on file with the Louisiana Department of Environmental Quality and may be examined during weekdays between 8:00 a.m. and 4:30 p.m. Copies may be obtained upon payment of costs of reproduction.

Corps of Engineers Permit Criteria

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The U.S. Army Corps of Engineers is soliciting comments from the public, federal, state, and local agencies and officials, Indian Tribes, and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the U.S. Army Corps of Engineers to determine whether to make, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

The New Orleans District is unaware of properties listed on the National Register of Historic Places near the proposed work. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistorical, historical sites, or data. Issuance of this public notice solicits input from the State Archeologist and State Historic Preservation Officer regarding potential impacts to cultural resources.

The New Orleans District has determined that the proposed project is not likely to adversely affect the West Indian Manatee (*Trichechus manatus*) based on the Standard Local Operating Procedure for Endangered Species of Louisiana (SLOPES), dated October 22, 2014, between the U.S. Army Corps of Engineers and U.S. Fish and Wildlife Service, Ecological Services Office, with the inclusion of the Standard Manatee Conditions for In-Water Activities.

Our initial finding is that the proposed work would not affect any species, nor affect any habitat designated as critical to the survival and recovery of such species, listed as endangered by the U.S. Department of Commerce.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The applicant's proposal would result in the destruction or alteration of <u>377.9</u> acres of EFH utilized by various life stages of red drum and penaeid shrimp. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or federally managed fisheries in the Gulf of Mexico. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

If the proposed work involves deposits of dredged or fill material into navigable waters, the evaluation of the probable impacts will include the application of guidelines established by the Administrator of the Environmental Protection Agency. Also, a certification that the proposed activity will not violate applicable water quality standards will be required from the Department of Environmental Quality, Water Quality Certifications, before a permit is issued.

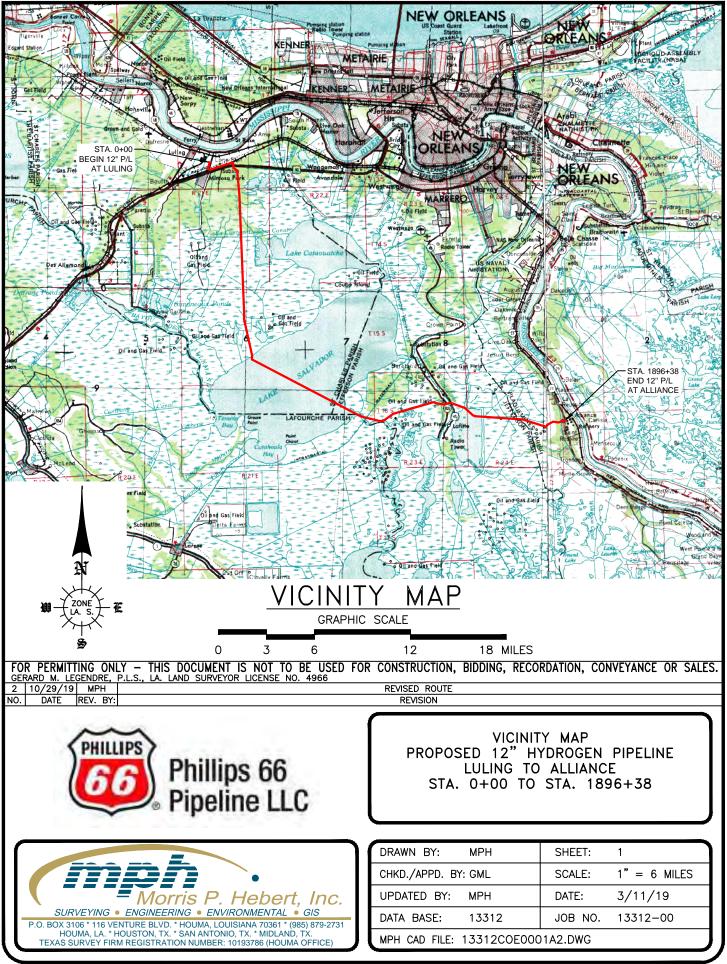
Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

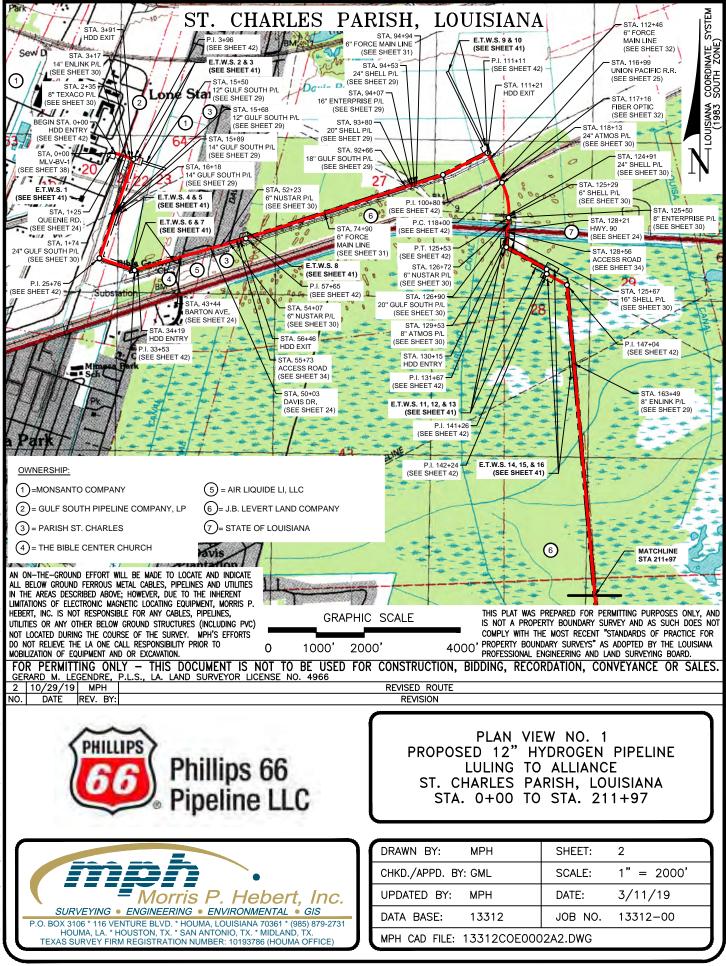
The applicant has certified that the proposed activity described in the application complies with and will be conducted in a manner that is consistent with the Louisiana Coastal Resources Program. The Department of the Army permit will not be issued unless the applicant received approval or a waiver of the Coastal Use Permit by the Department of Natural Resources.

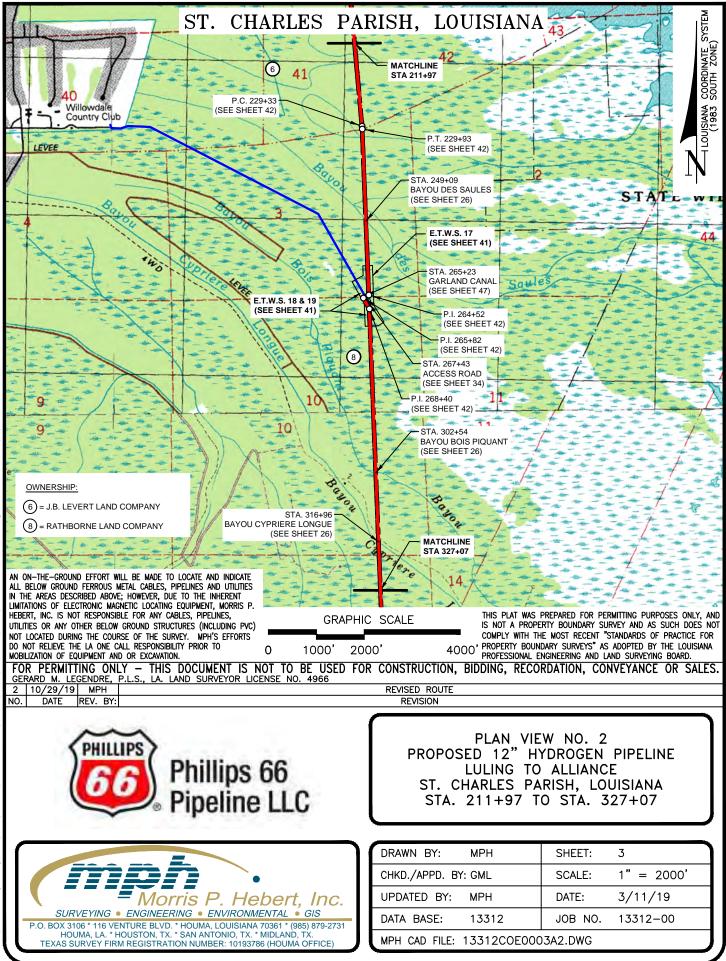
You are requested to communicate the information contained in this notice to any other parties whom you deem likely to have interest in the matter.

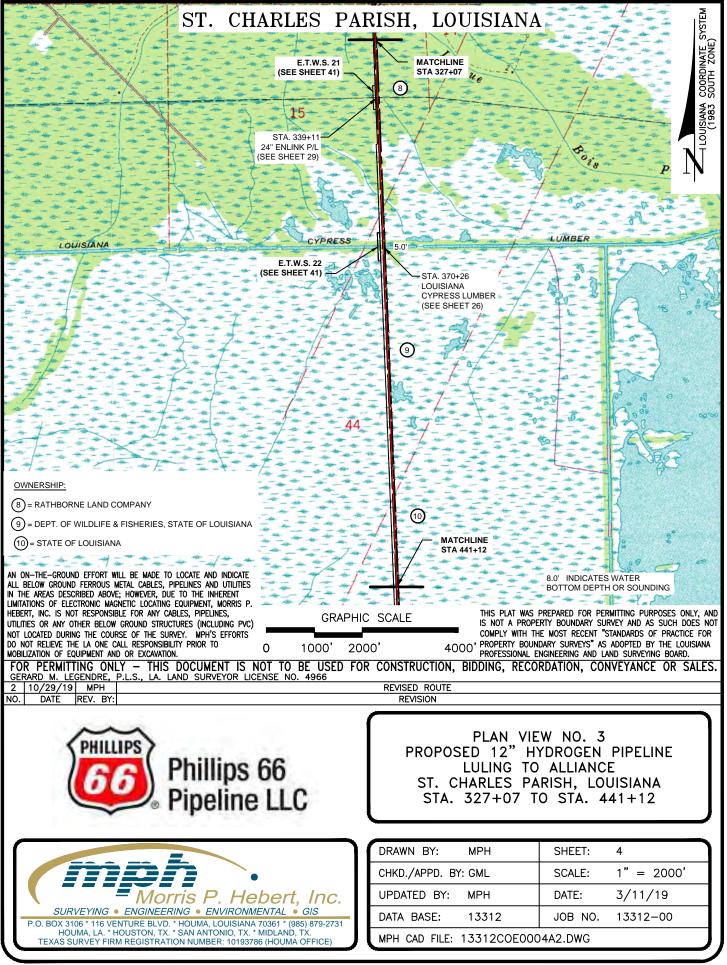
Michael V. Farabee Chief, Eastern Evaluation Section

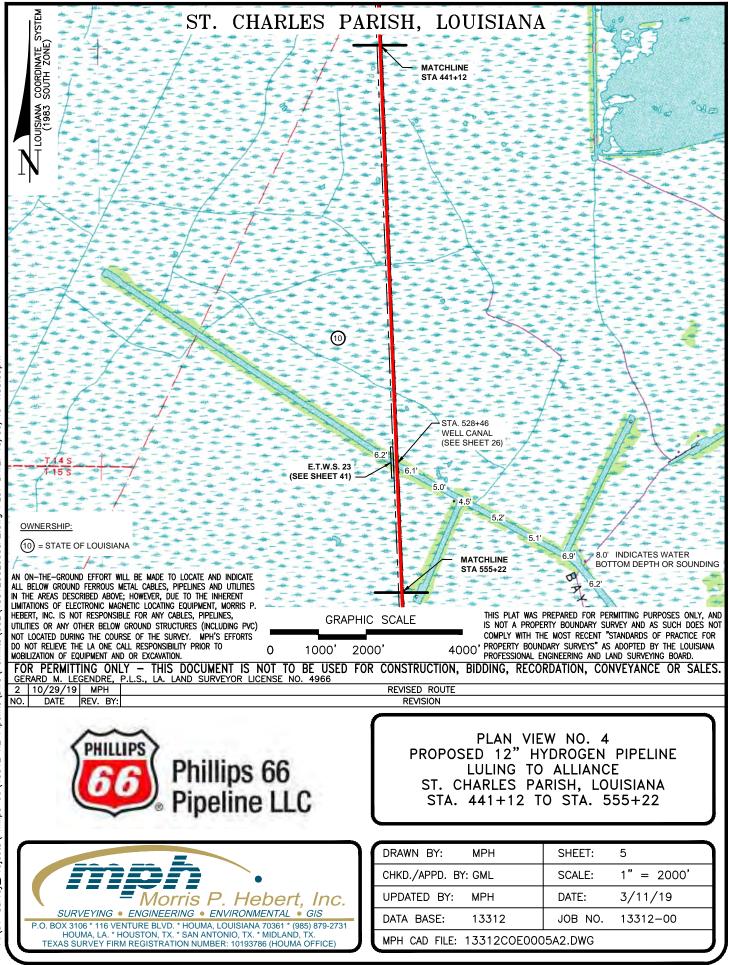
Enclosure

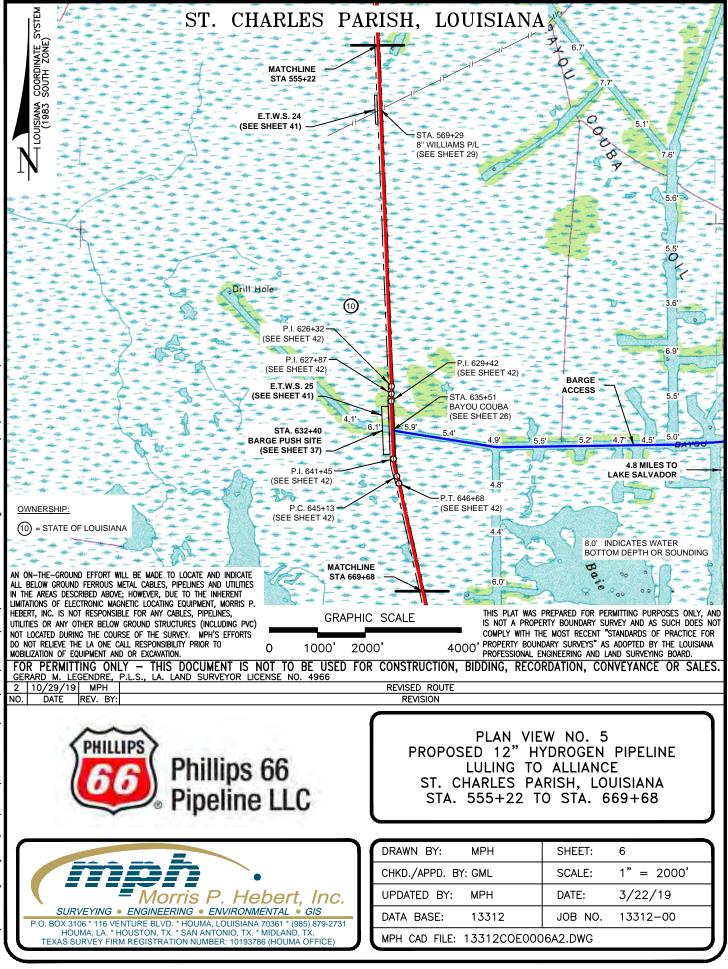


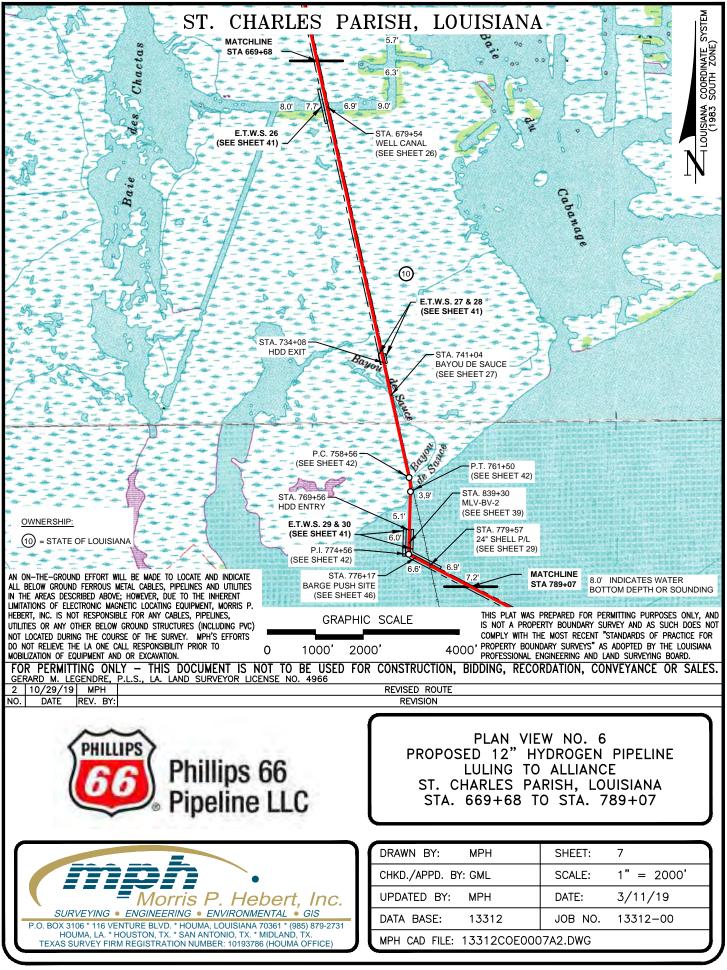


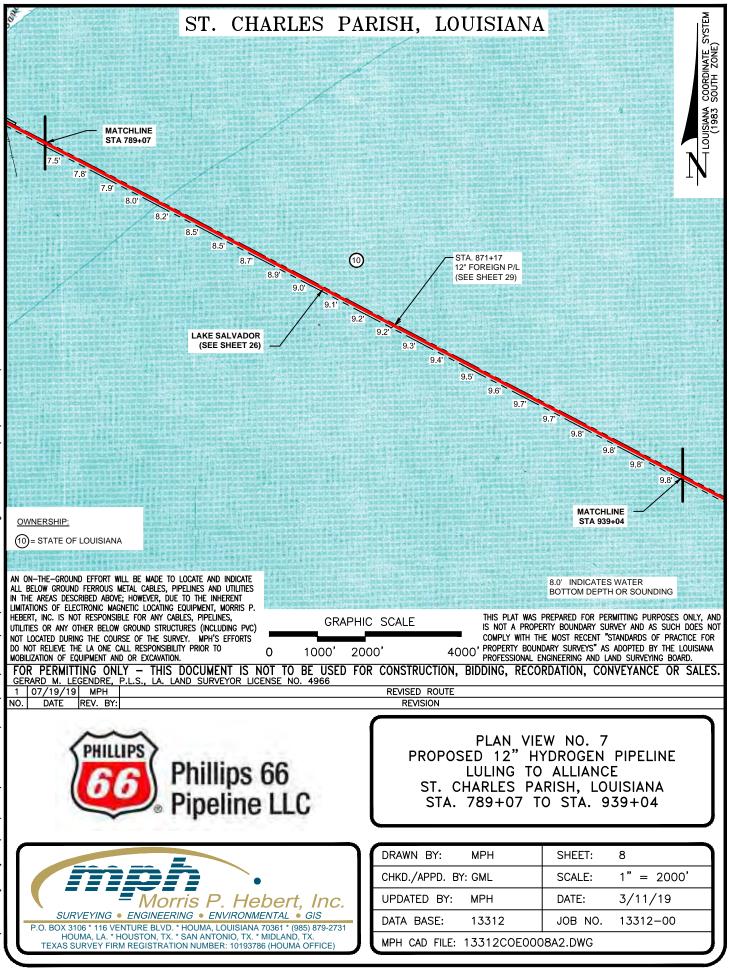


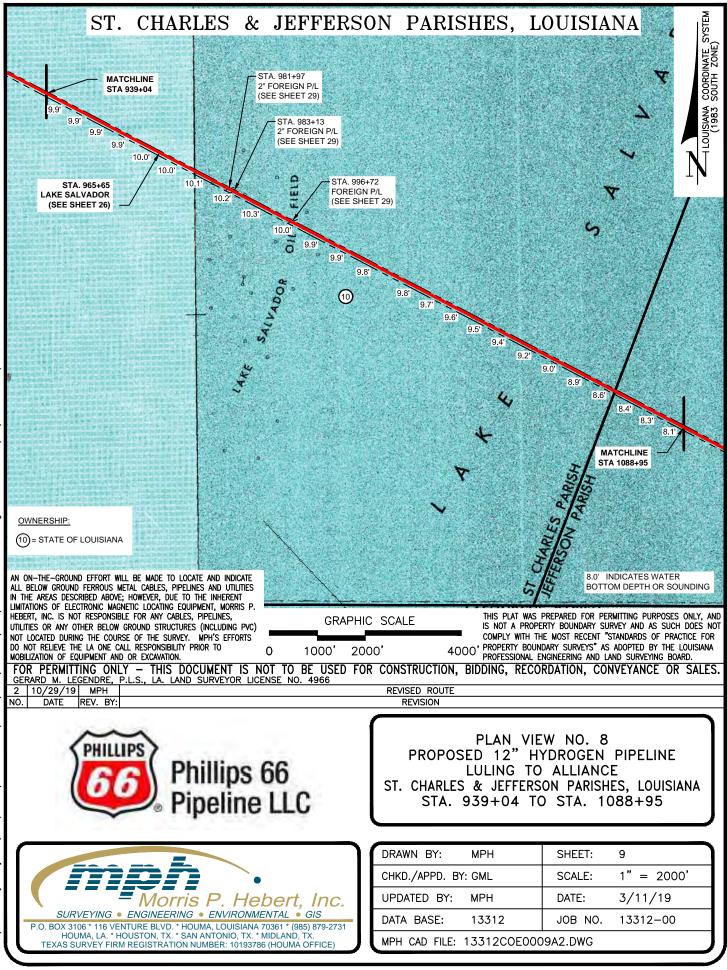


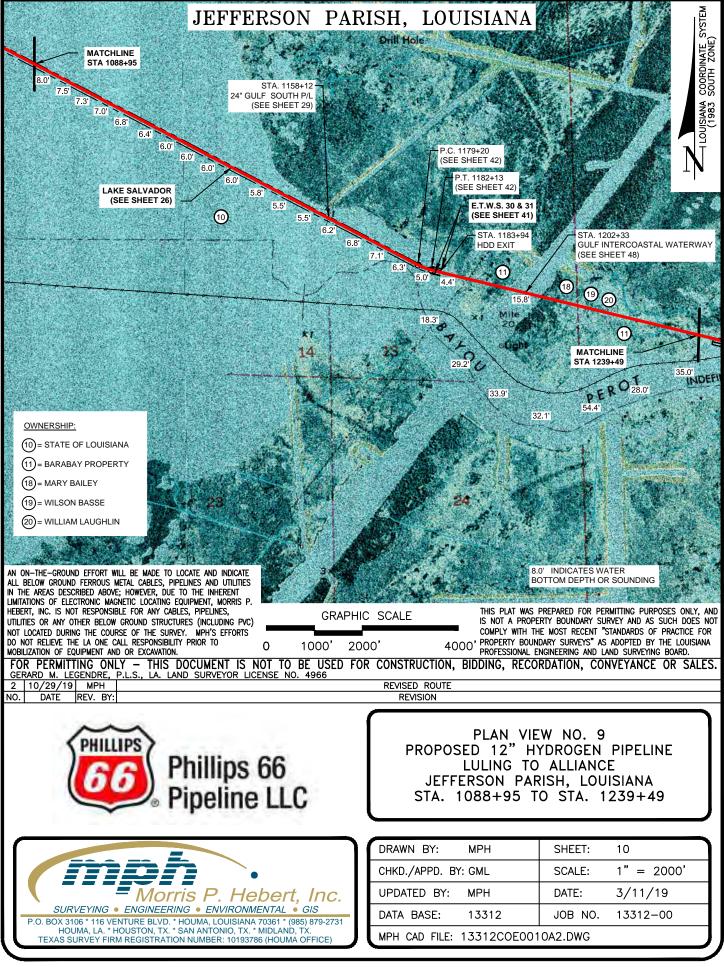


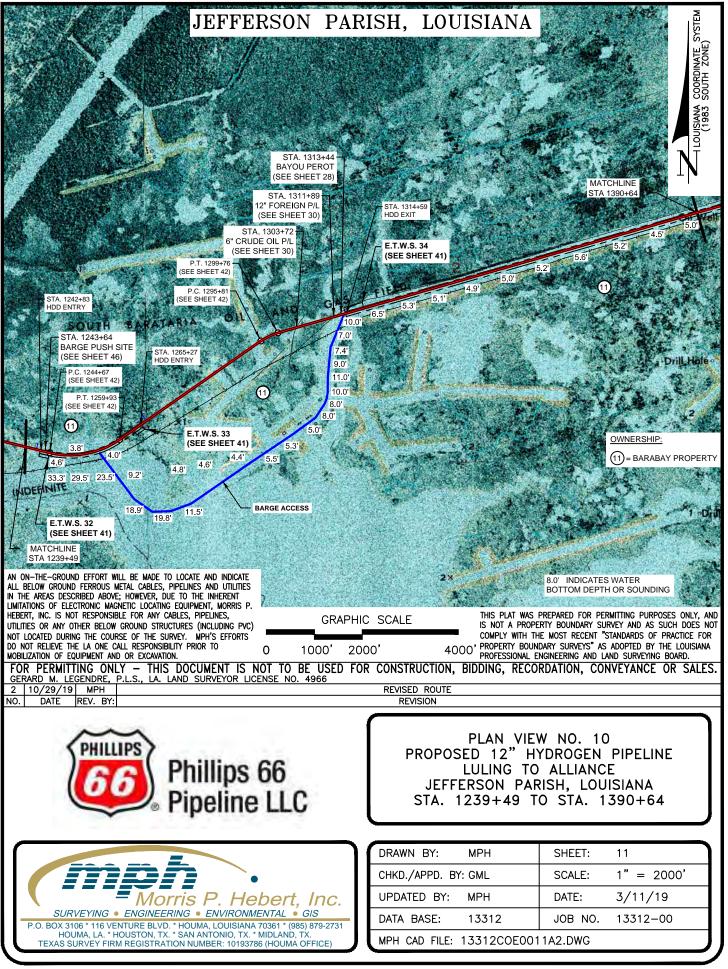


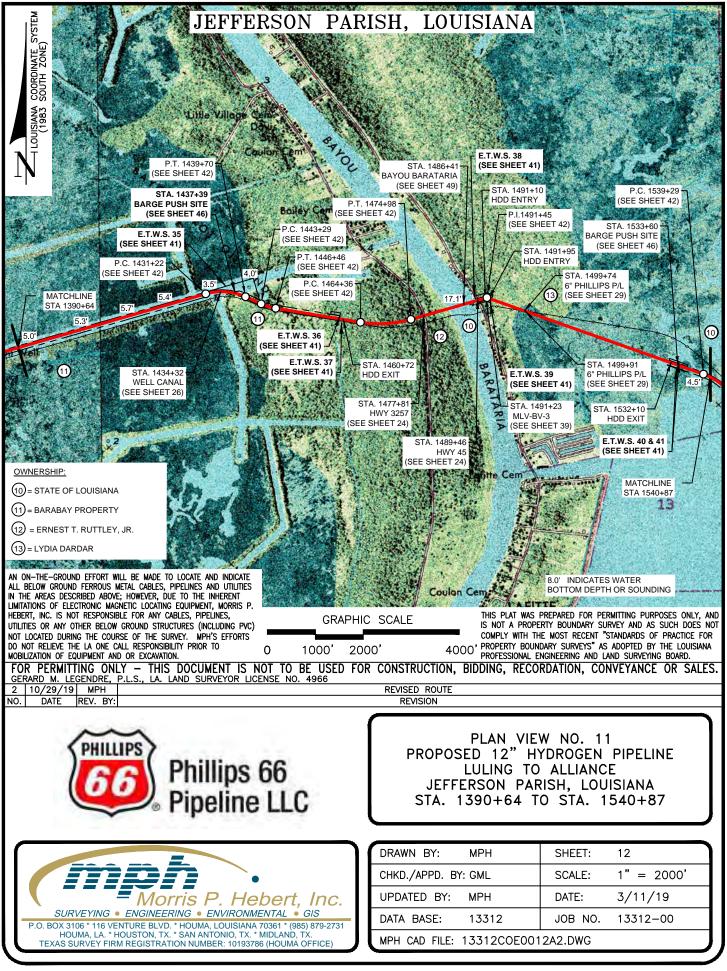


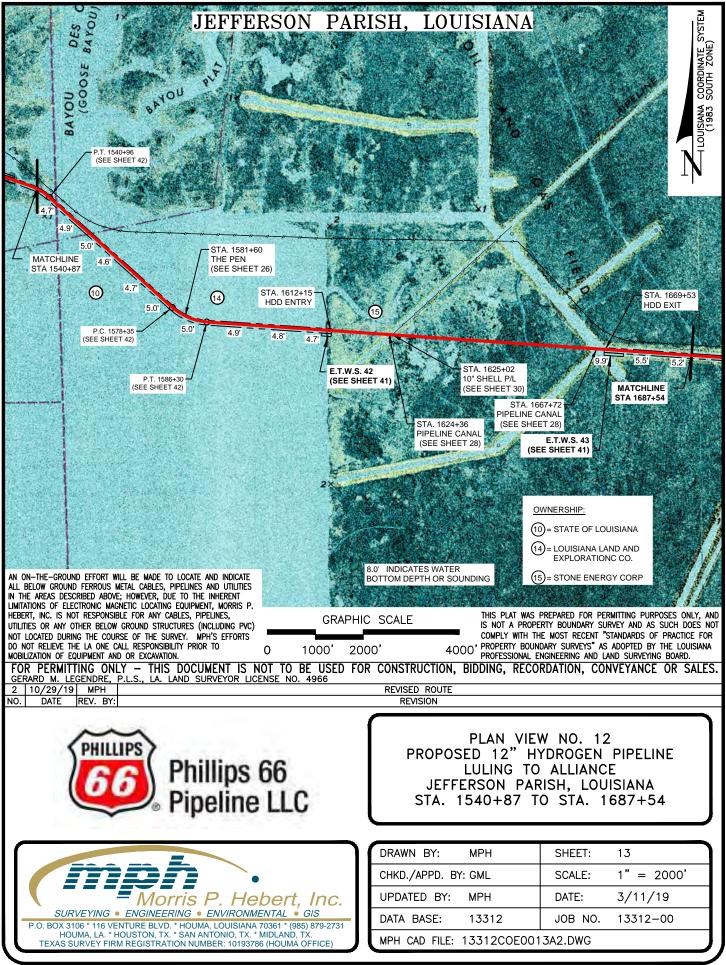


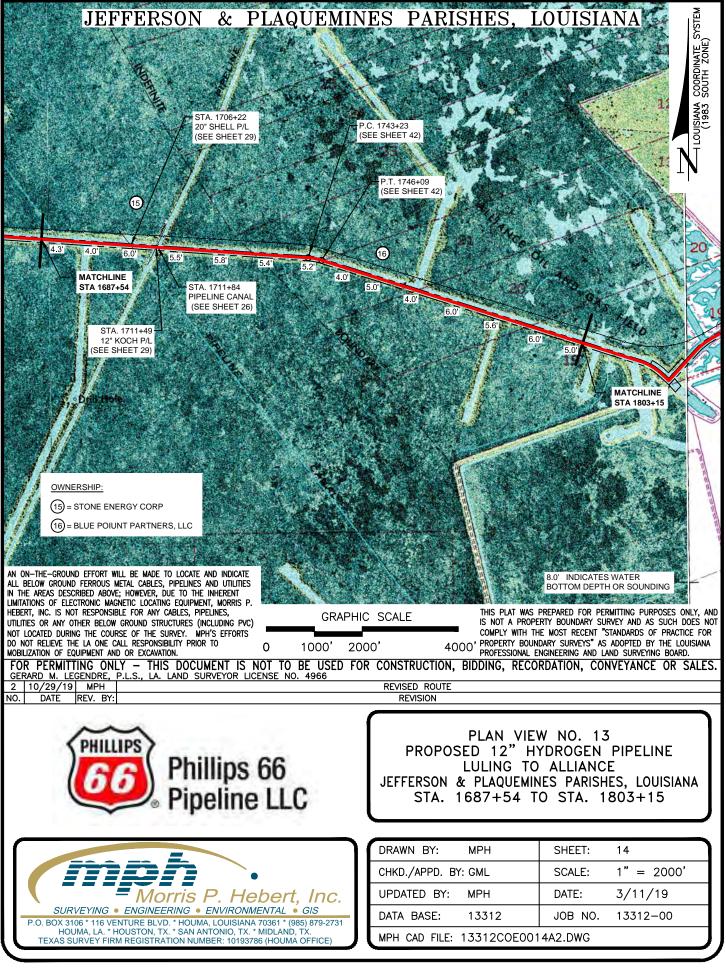


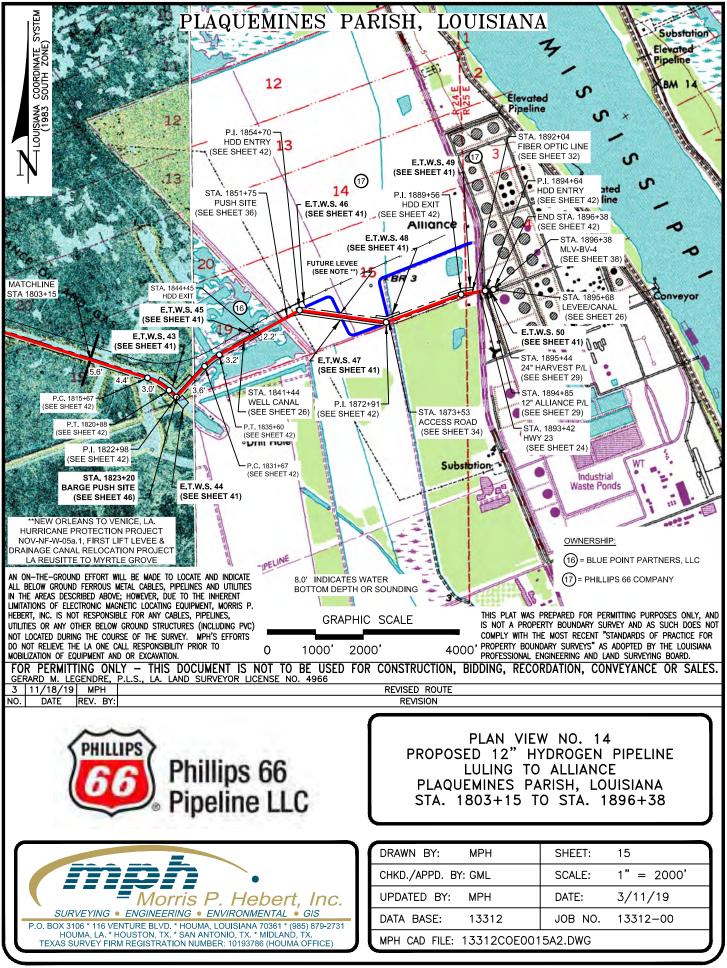


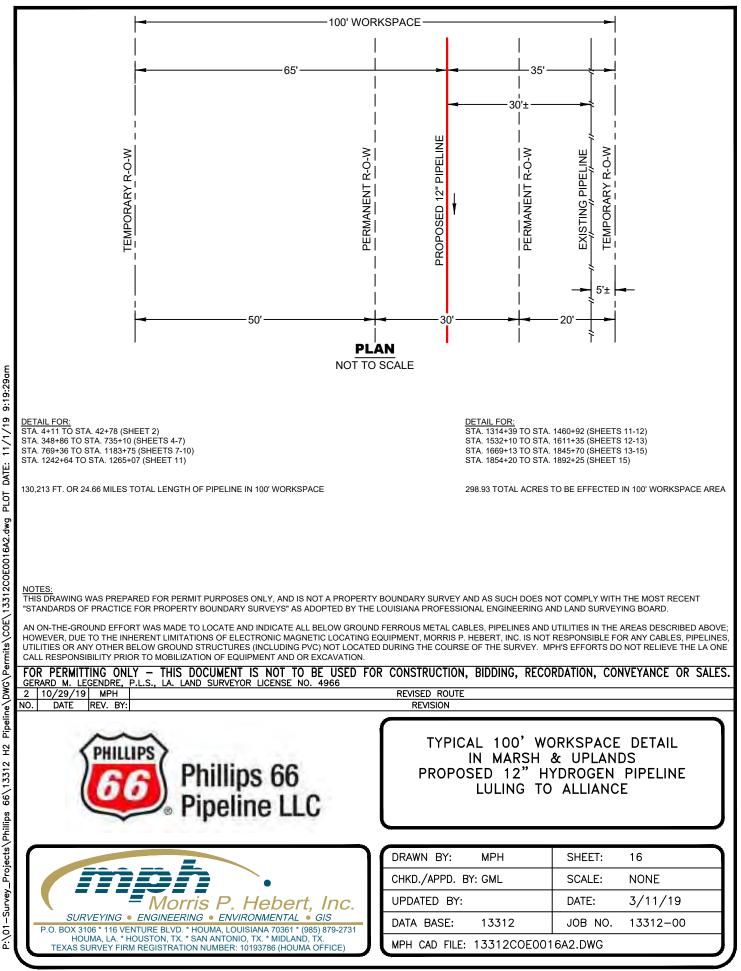


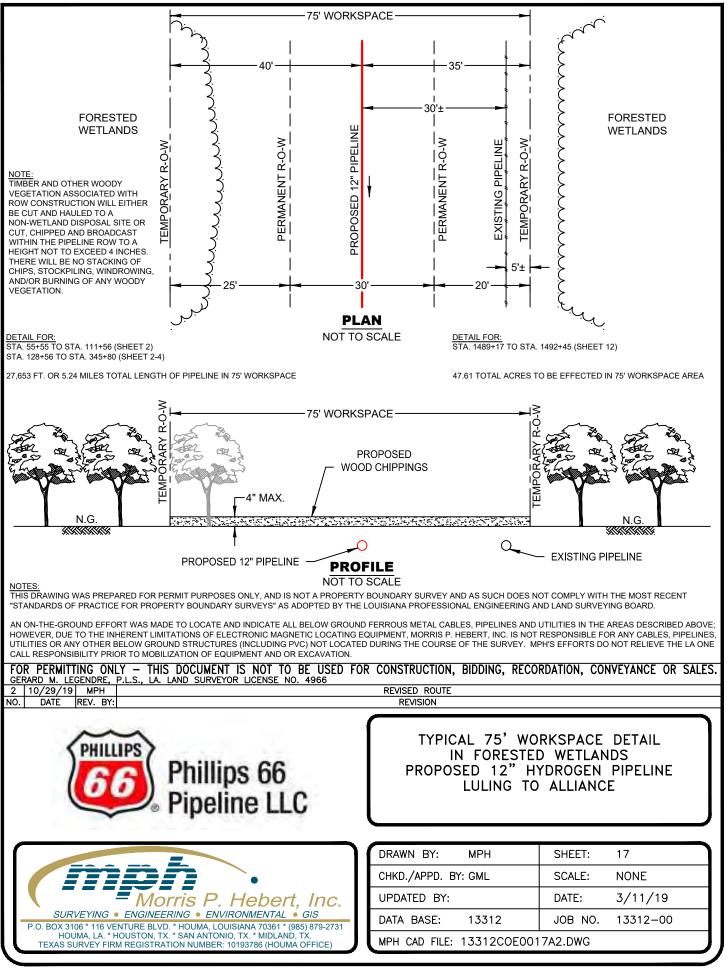


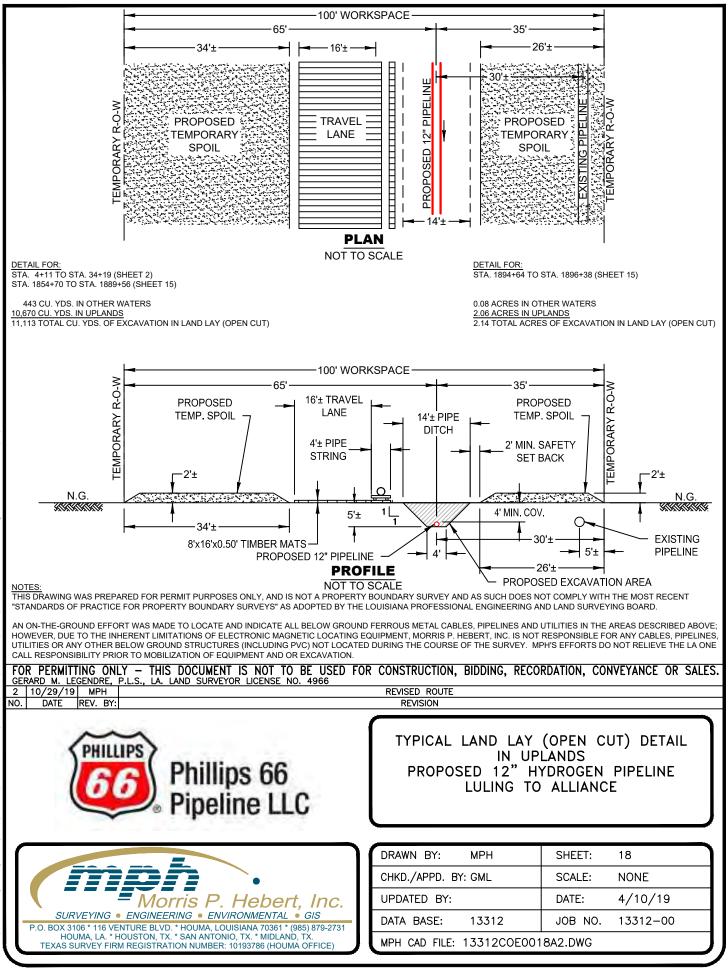


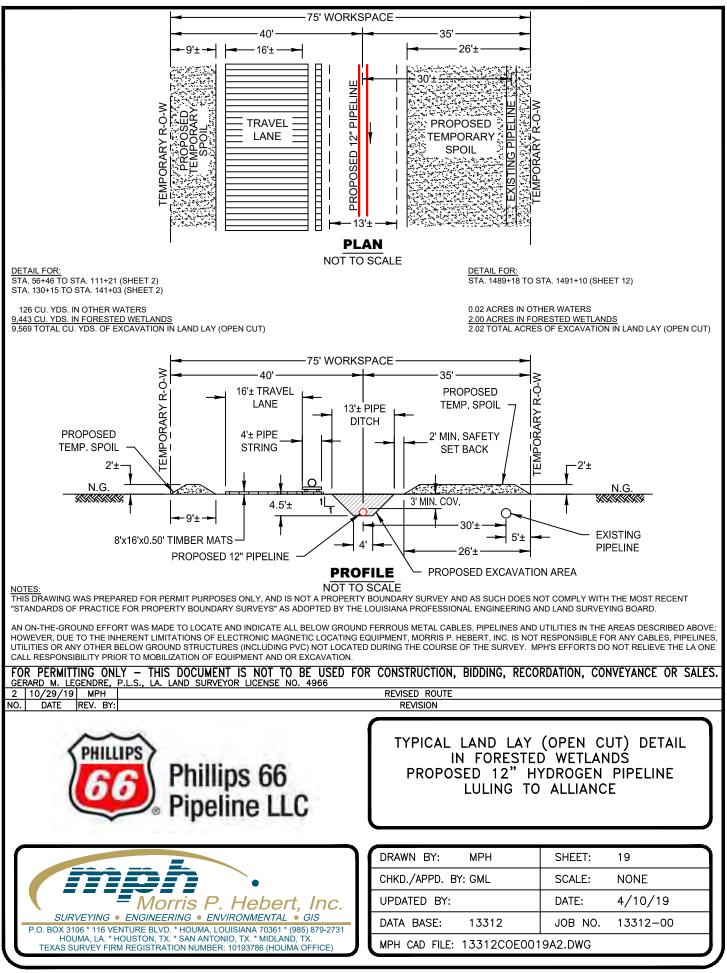


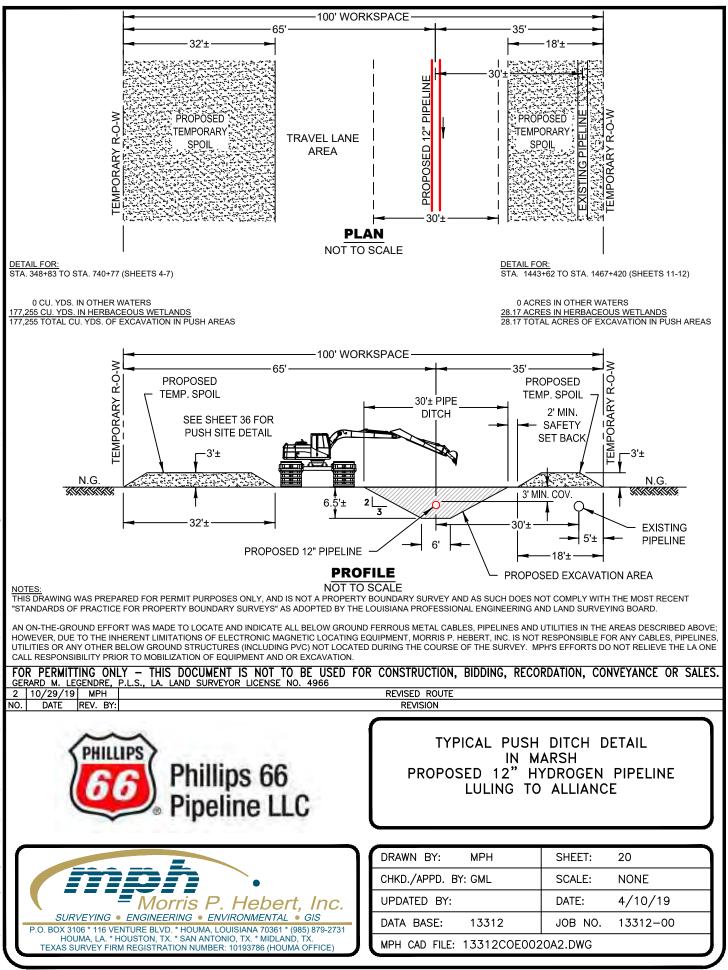


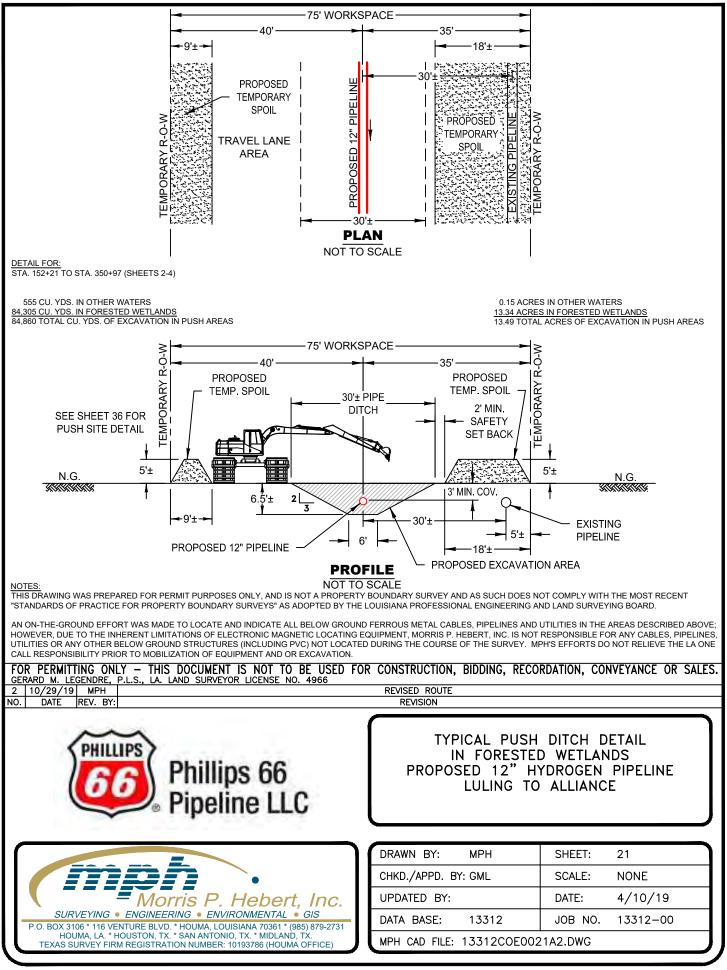


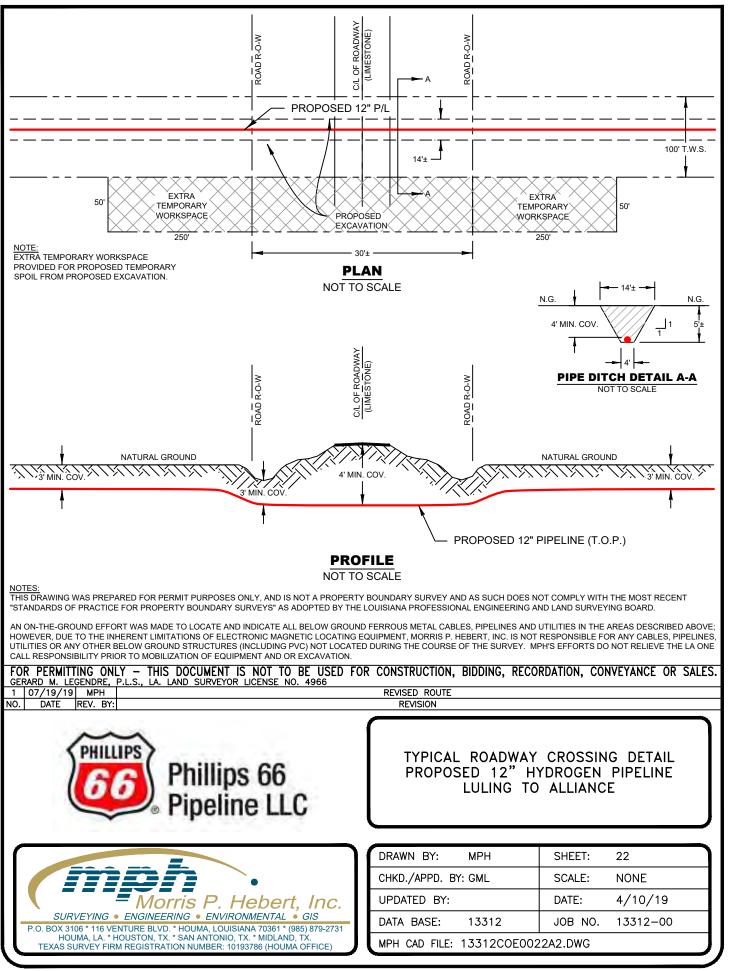


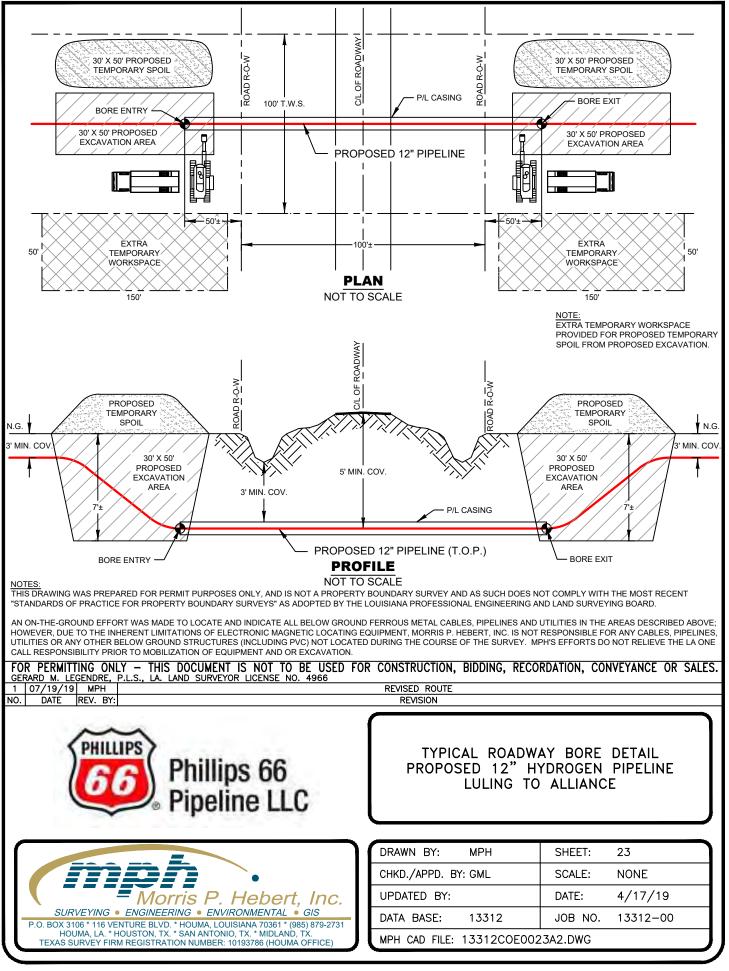


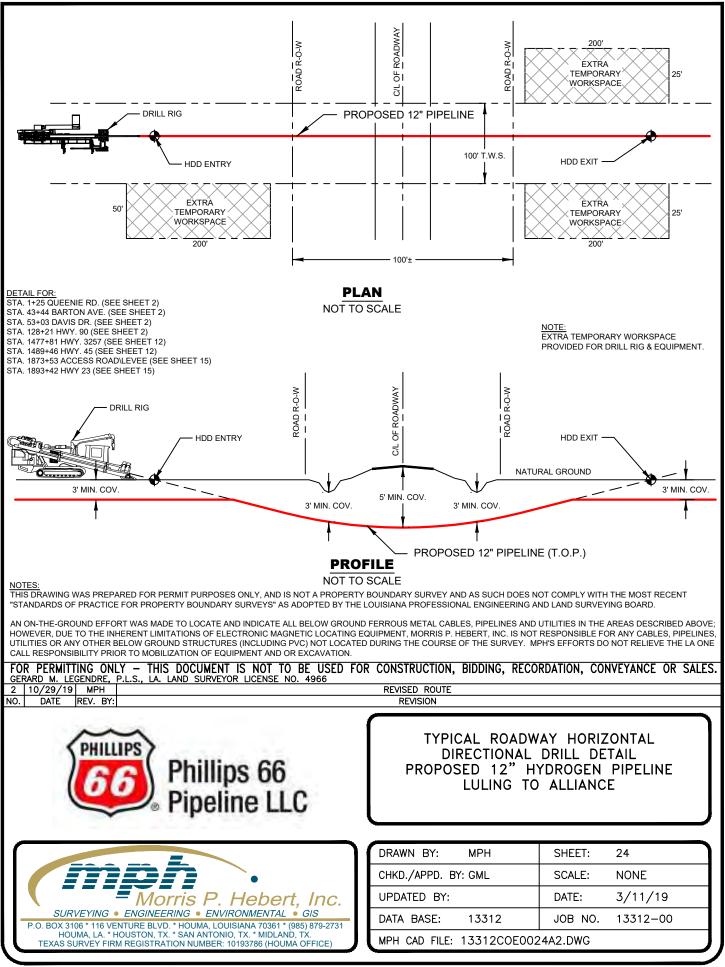


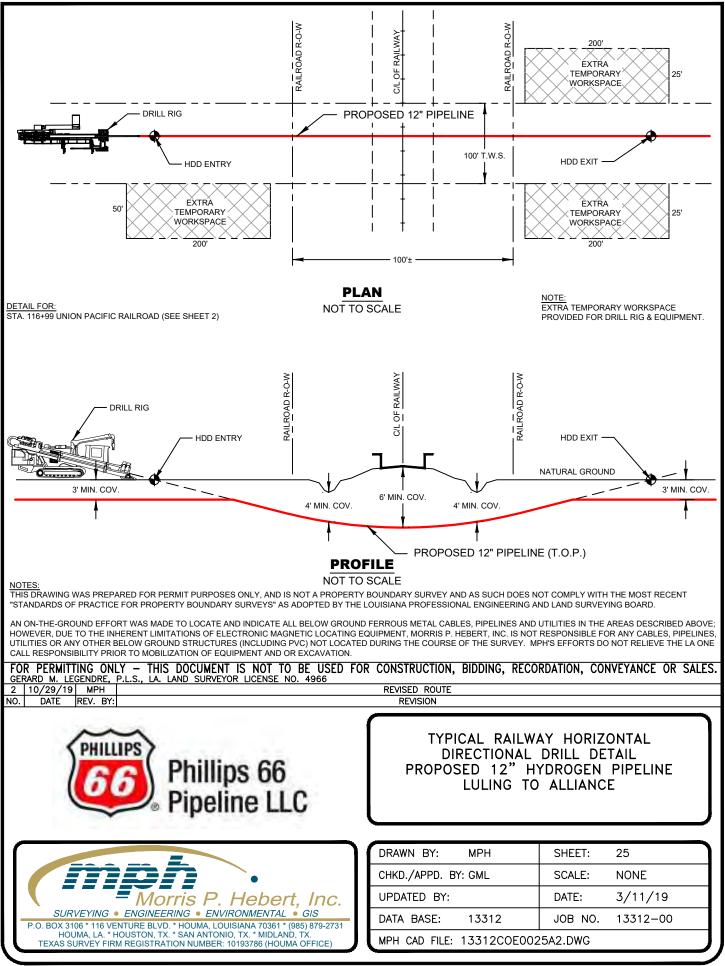


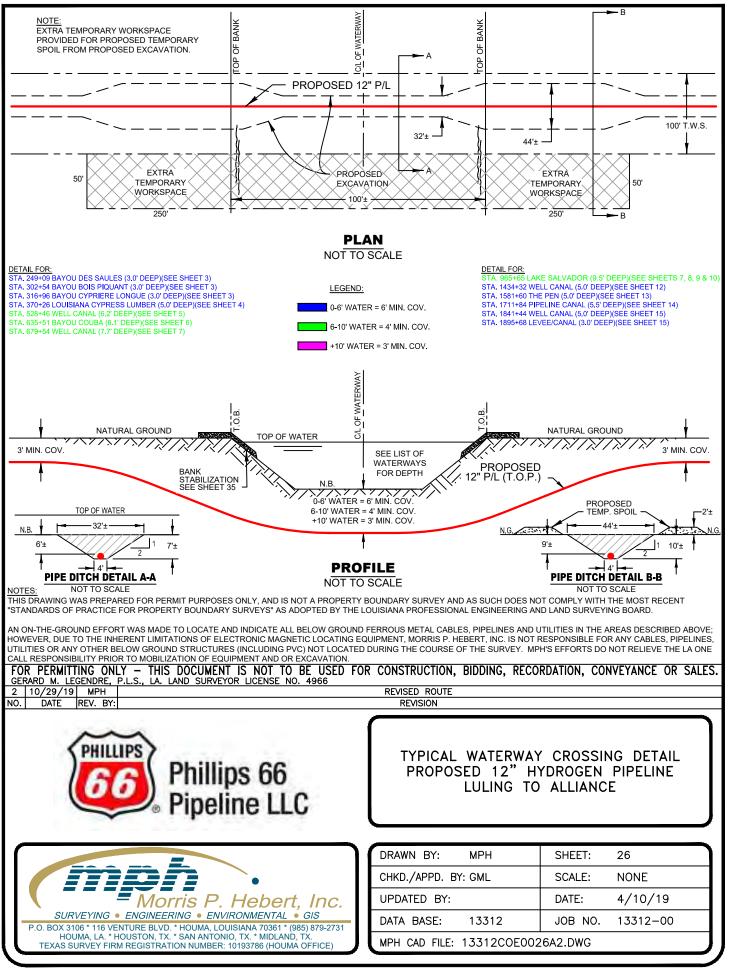


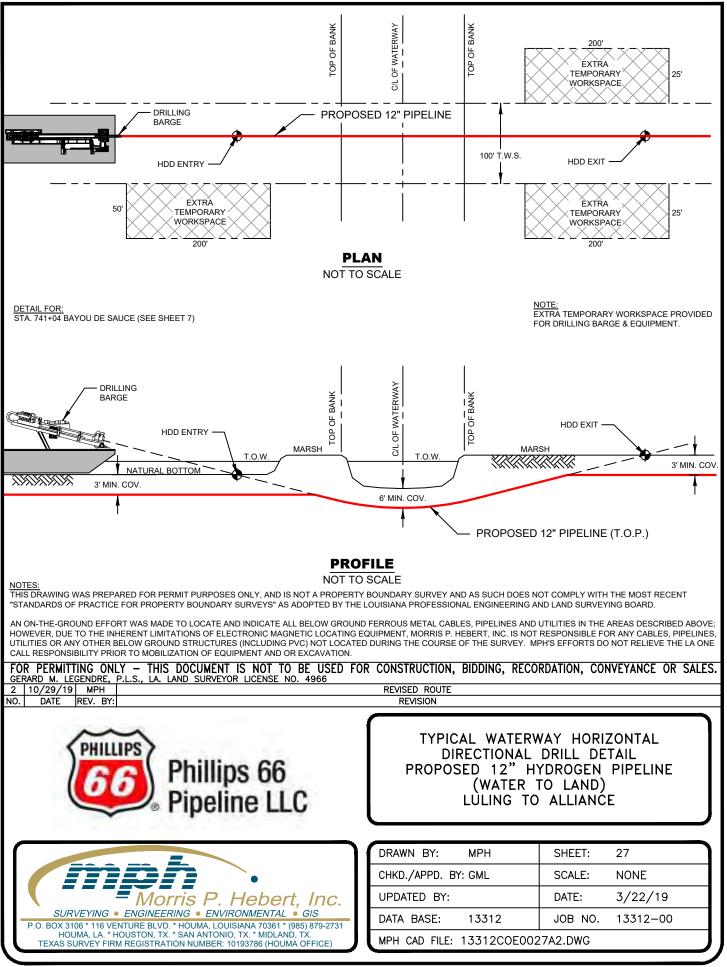


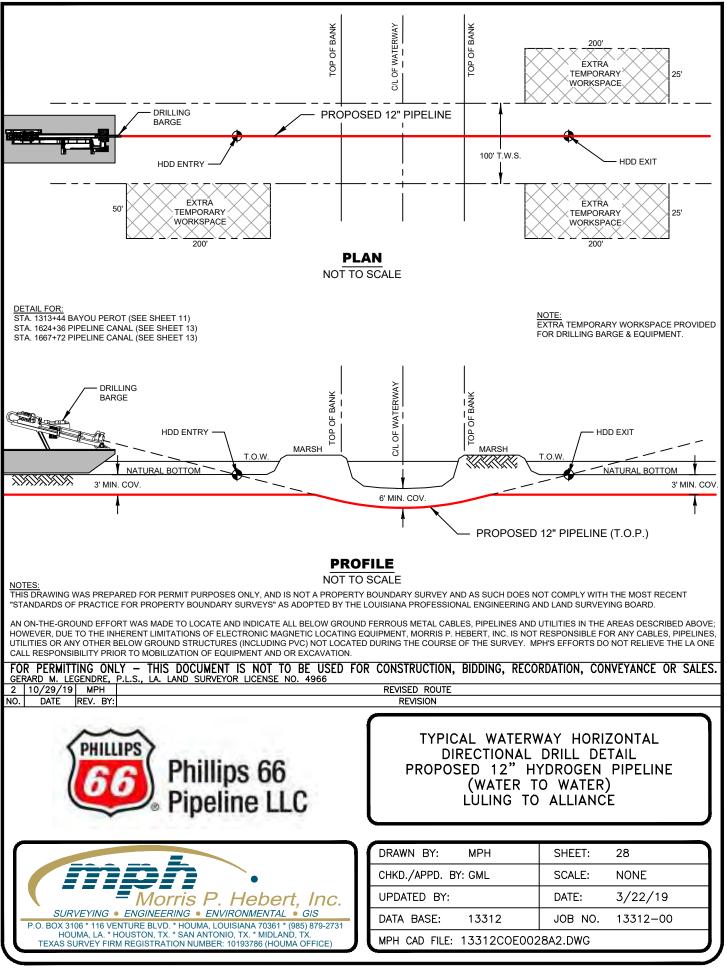


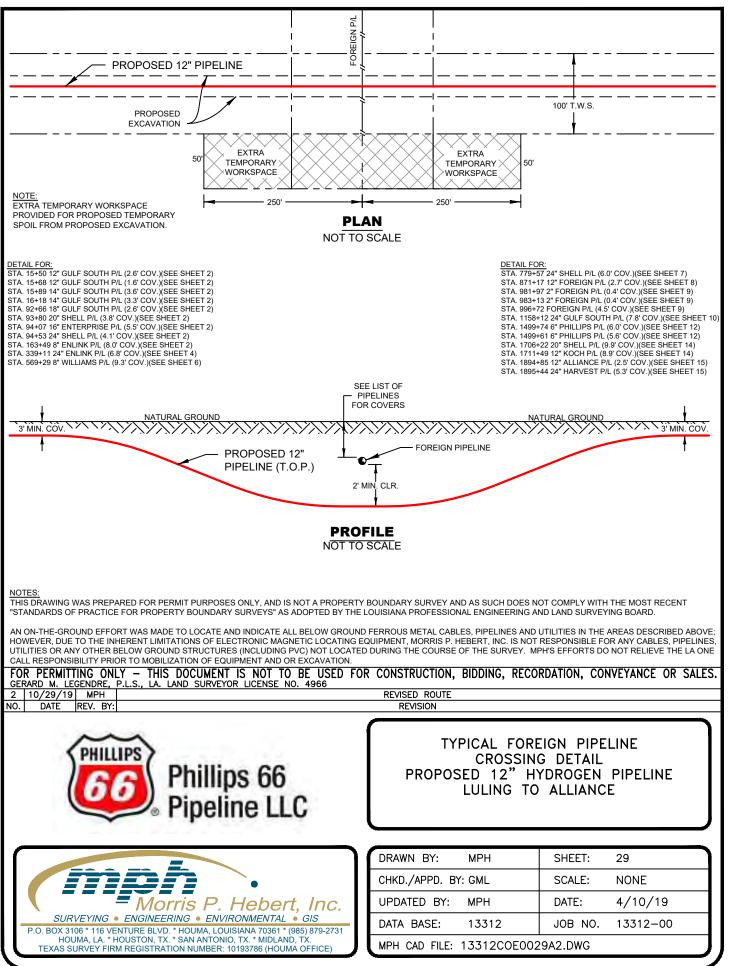




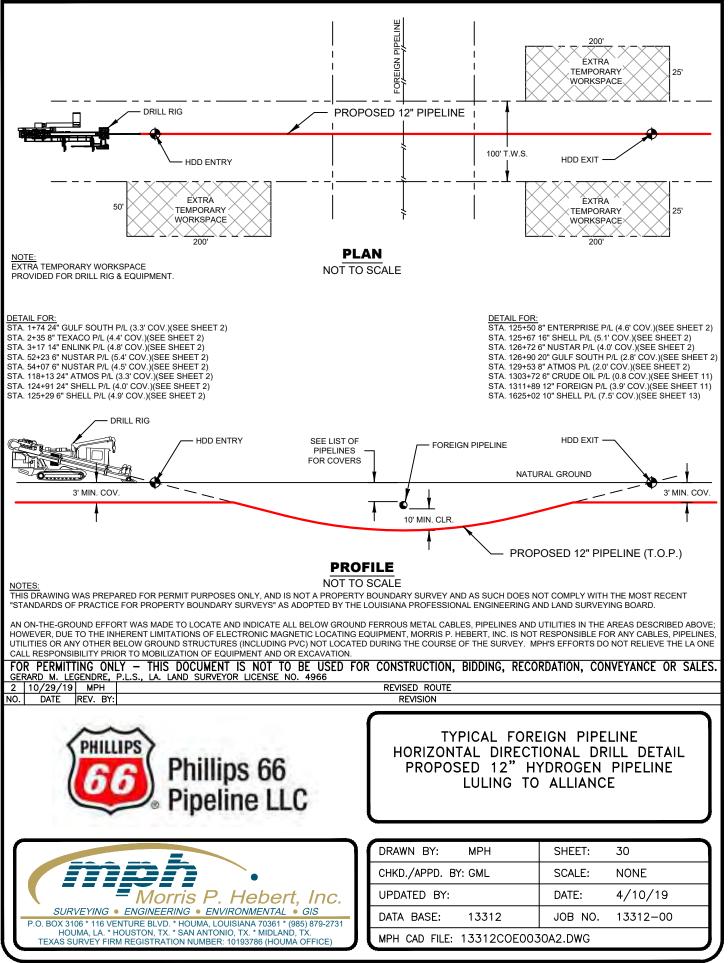


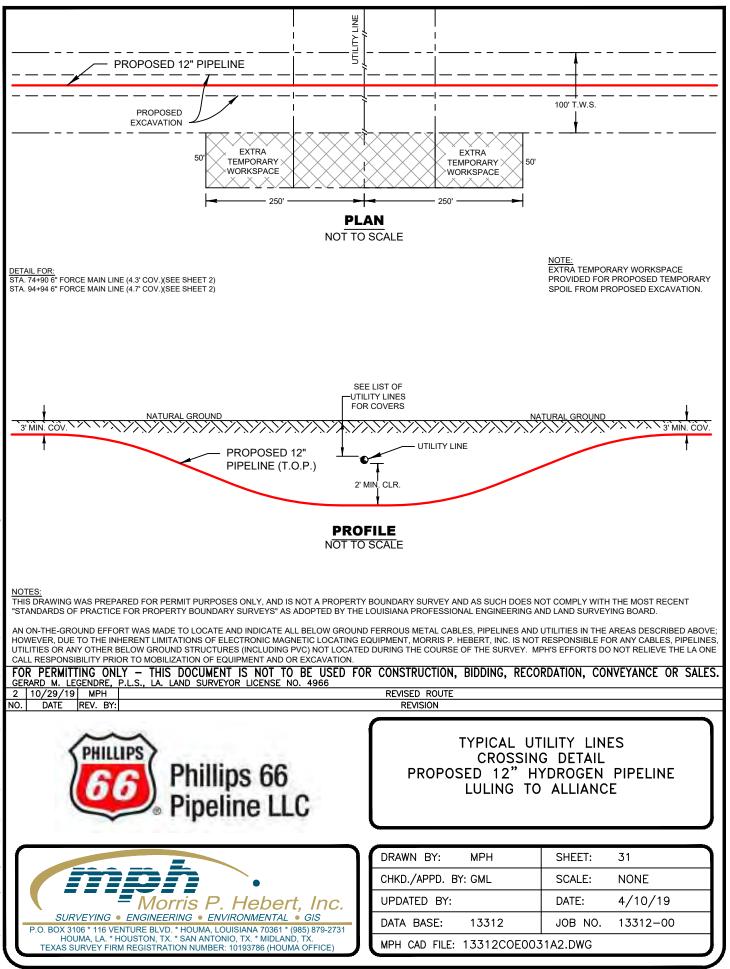


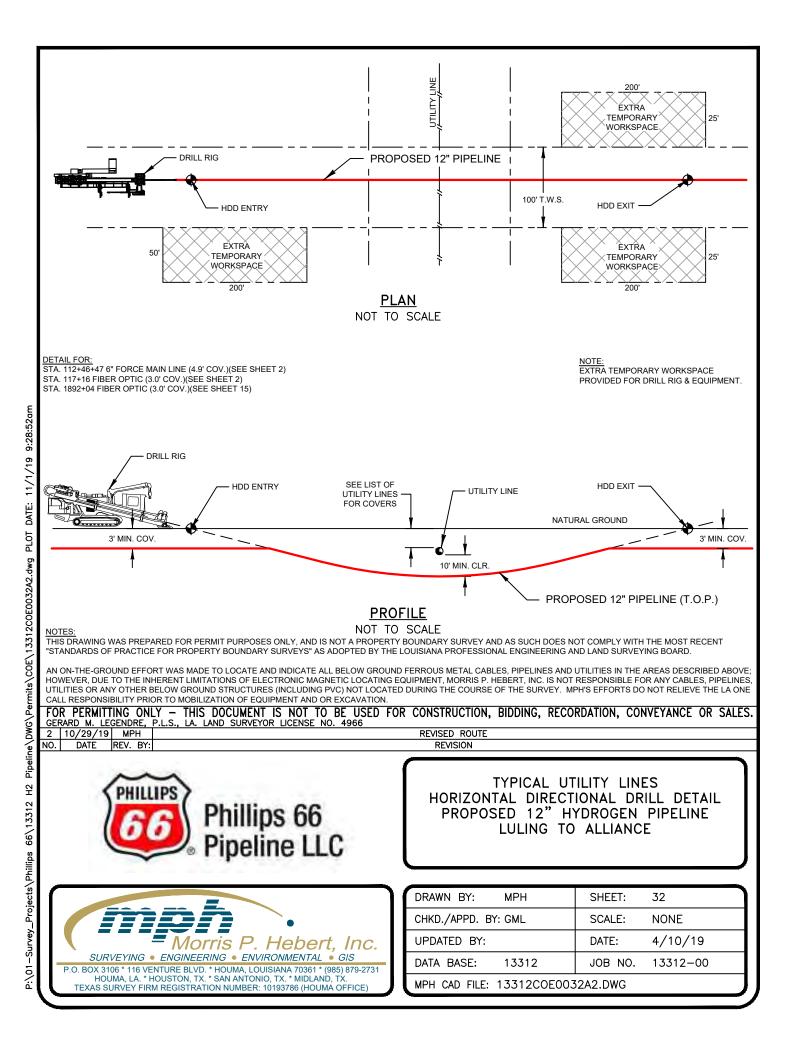


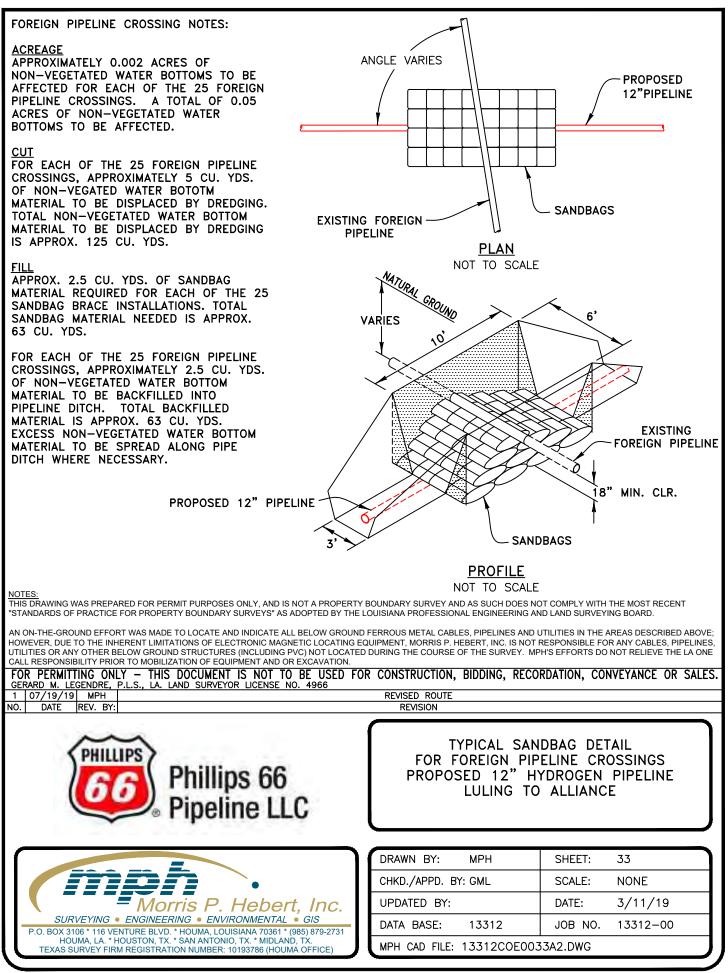


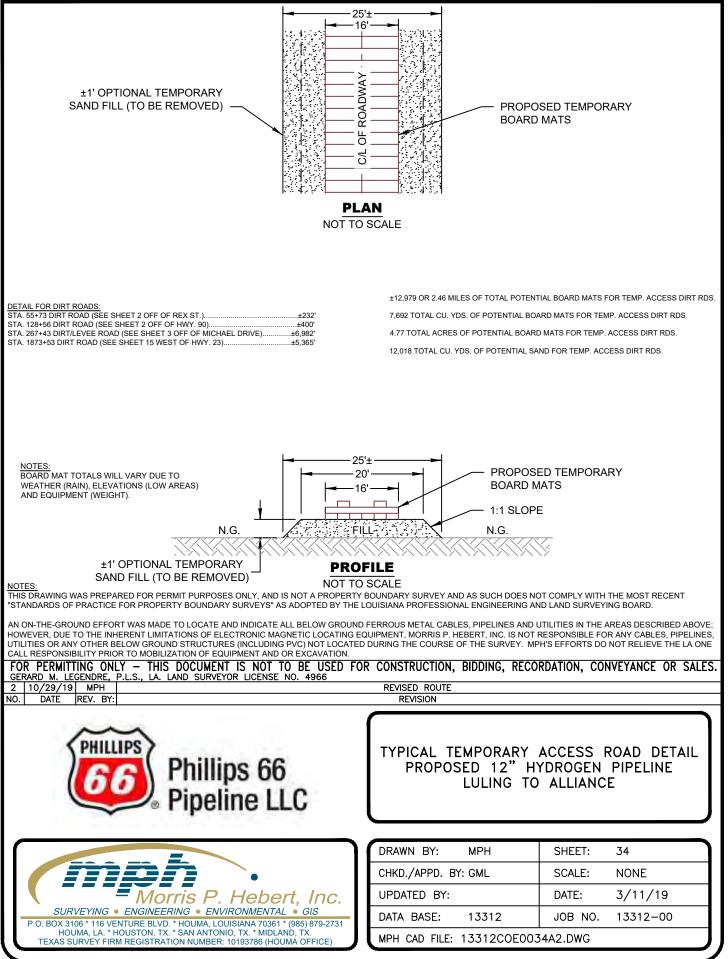
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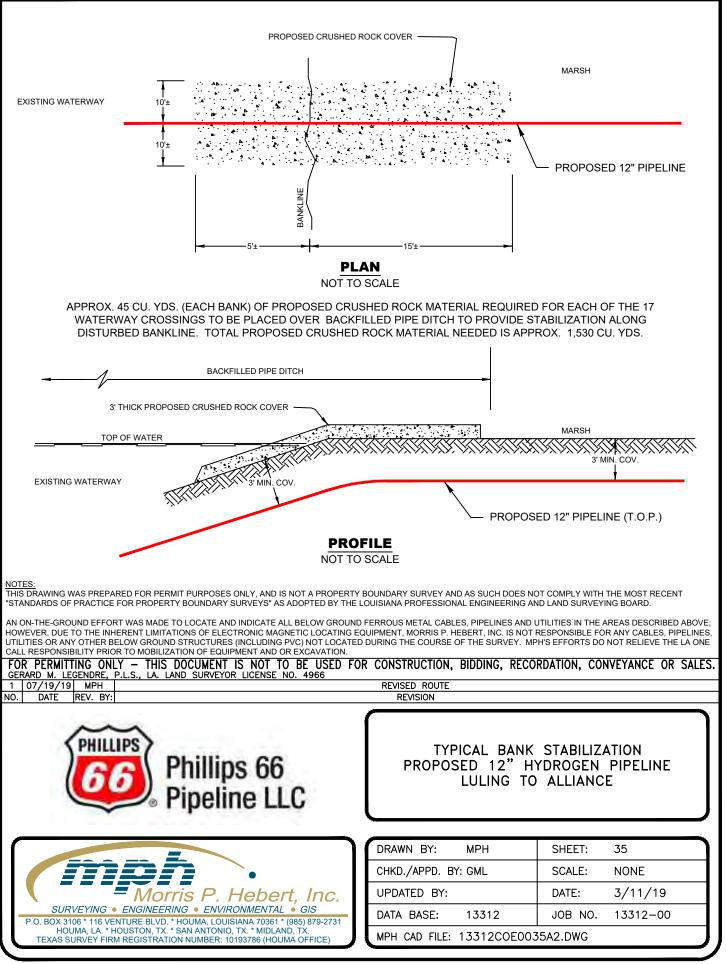


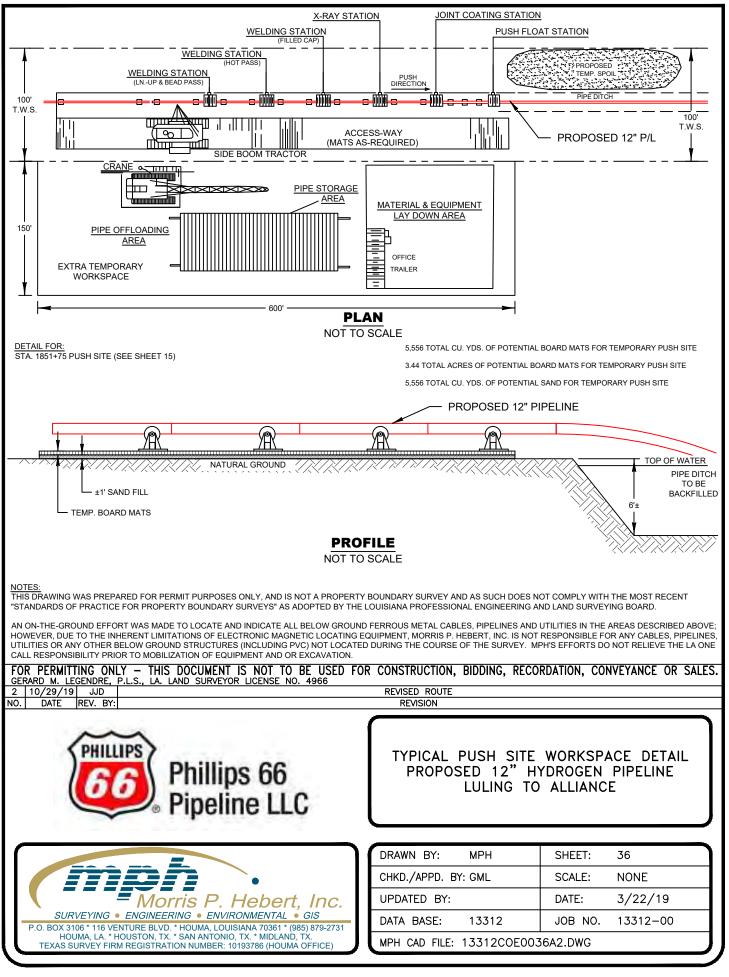


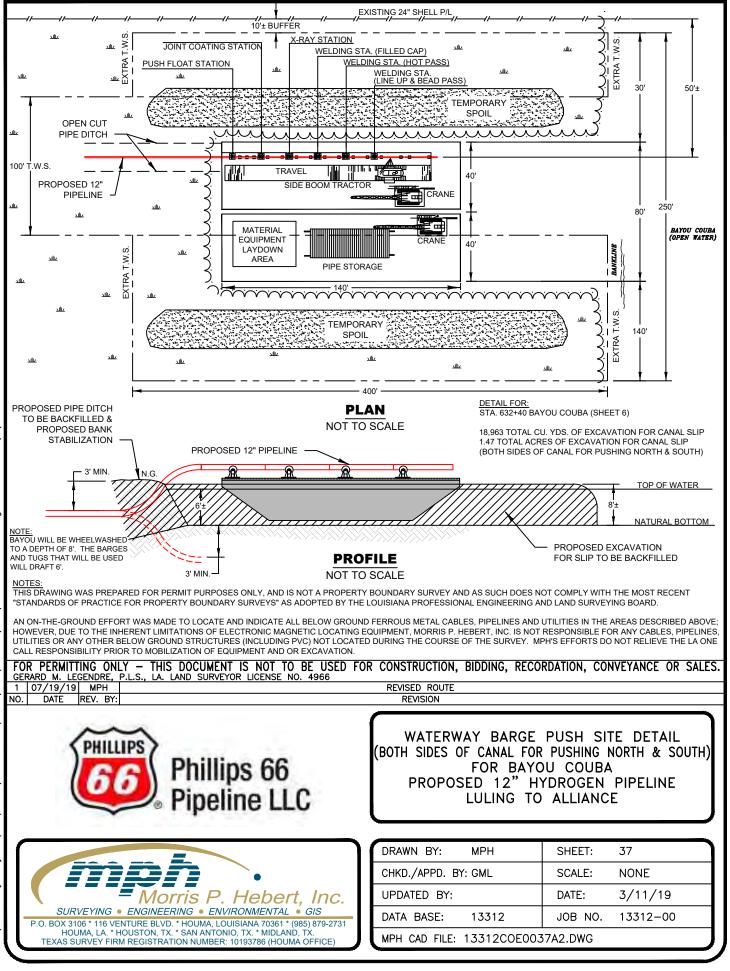


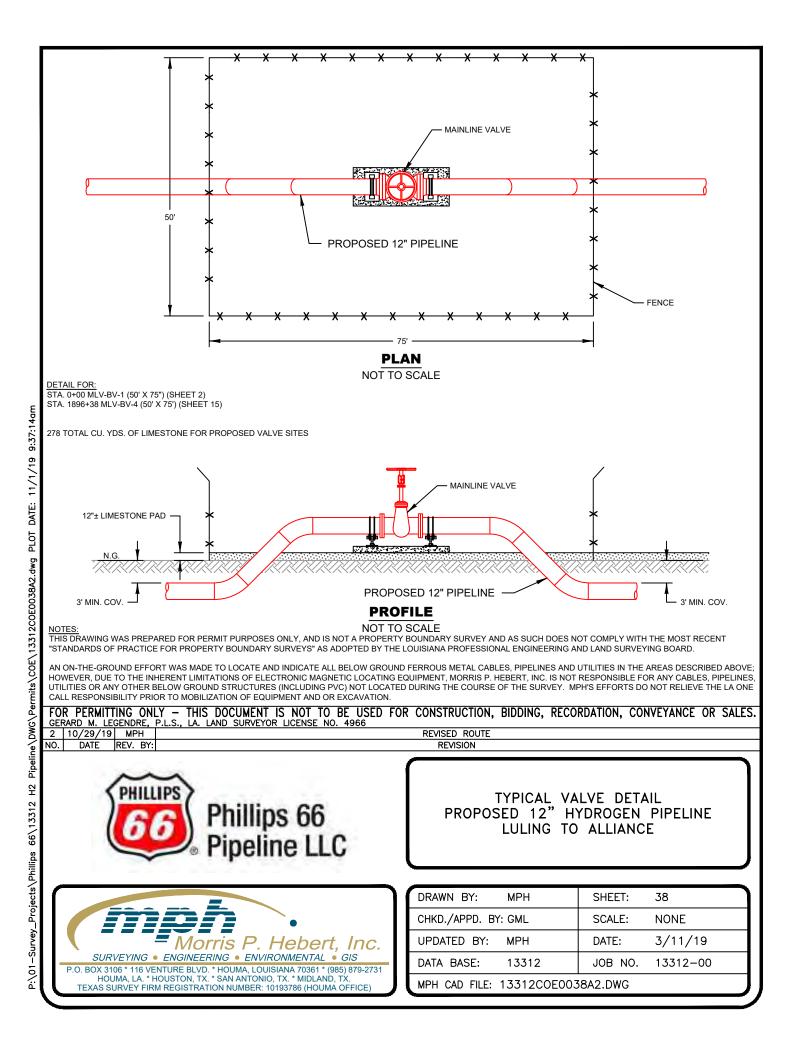


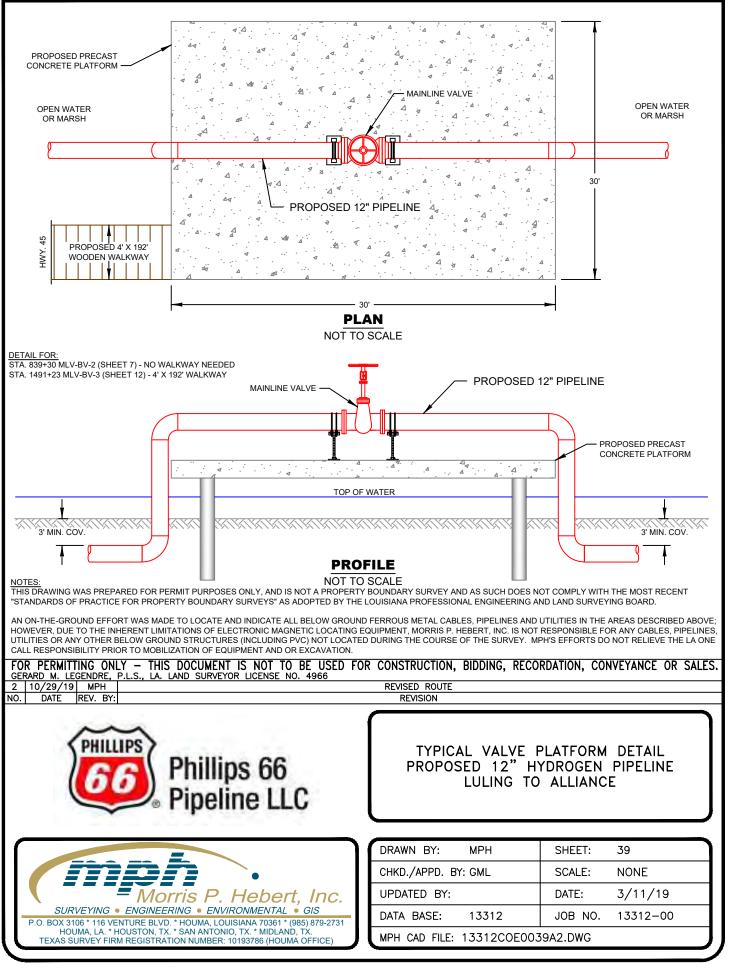












11/1/19 9:38:05am DATE: PLOT Pipeline\DWG\Permits\COE\13312C0E0039A2.dwg £ 66\13312 P:\01-Survey_Projects\Phillips

LEGEND FOR PLAN VIEW

	CENTERLINE OF PROPOSED PIPELINE		- CENTERLINE OF PROPOSED PIPELINE
	ACCESS ROUTE		- PERMANENT R-O-W
— <i>II</i> —— <i>II</i> —— <i>II</i> ——	FOREIGN PIPELINE OR	/ <i>I</i> ////////	- FOREIGN PIPELINE OR
	UTILITY LINE (AS LABELED) —— RIGHT OF WAY/		UTILITY LINE (AS LABELED) TEMPORARY R-O-W/EXTRA TEMPORA
- x - x - x - x	TEMPORARY WÓRKSPACE —— FENCE LINE	- x - x - x - x	WORKSPACE - FENCE LINE
	CENTERLINE OF ROAD		
	EXTRA TEMPORARY WORK SPACE		- CENTERLINE OF ROAD
E.T.W.S.	EXTRA TEMPORARY WORK SPACE	�	BORE & HDD ENTRY/EXIT
STA.	STATION	Ň	VALVE
P/L	PIPELINE	R-O-W	RIGHT OF WAY
C/L	CENTERLINE	STA.	STATION
HWY.	HIGHWAY	P/L	PIPELINE
R.R.	RAILROAD	C/L	CENTERLINE
SHT.	SHEET	HWY.	HIGHWAY
P.I.	POINT OF INTERSECTION	MIN.	MINIMUM
Р.Т.	POINT OF TANGENCY	COV.	COVER
P.C.	POINT OF CURVATURE	N.G.	NATURAL GROUND
#	OWNERSHIP	HDD	HORIZONTAL DIRECTIONAL DRILL
HDD	HORIZONTAL DIRECTIONAL DRILL	TEMP.	TEMPORARY
NAT.	NATURAL	T.W.S	TEMPORARY WORK SPACE
Δ	DELTA ANGLE	PROP.	PROPOSED
R	GENERAL SEGMENT CURVE RADIUS		
L	LENGTH		
	GENERAL SEGMENT CURVE CHORD DIRECTION		
С	DIRECTION		



LEGEND PROPOSED 12" HYDROGEN PIPELINE LULING TO ALLIANCE

LEGEND FOR DETAIL/TYPICALS

DRAWN BY: MPH	SHEET:	40			
CHKD./APPD. BY: GML	SCALE:	NONE			
UPDATED BY:	DATE:	3/11/19			
DATA BASE: 13312	JOB NO.	13312-00			
MPH CAD FILE: 13312COE0040A2.DWG					

P:\01-Survey_Projects\Phillips 66\13312 H2 Pipeline\DWG\Permits\C0E\13312C0E0040A2.dwg PLOT DATE: 11/1/19 9:38:20am

	SHEET NO.	SIZE	DESCRIPTION	Northing	Easting	Latitude	Longitude
1	2	150° X 196°	HDD ENTRY	518,370.19	3,592,723.90	N29"55'18.24"	W90°20'55.52''
2	2	200' X 150'	HDD EXIT	518,091.68	3,593,093.52	N29°55'15.43''	W90°20'51.35"
3	2	50' X 463'	BACKSTRING	518,214.95	3,593,429.56	N29"55'16.65"	W90°20'47.52"
4	2	50' X 500'	PIPELINE X-ING	517,170.16	3,592,845.82	N29°55'06.35"	W90°20'54.26"
5	2	50' X 137'	HDD ENTRY	516.081.44	3,593,154.74	N29"54'55.55"	W90°20'50.85"
6	2	72' X 103	HODENIRY	515,950.07	3,593,083.27	N29°54'54.26"	W90°20'51.68"
7	2	86' X 141'	BARTON AVENUE	516,165.67	3,594,040.19	N29°54'56.31"	W90°20'70.78"
8	2	85' X 200'	HDD EXIT	516,716.11	3,595,406.43	N29"55'01.64"	W90°20'25.20"
9	2	50' X 1722'	BACKSTRING	519,353.55	3,600,060,68	N29°55'27.35''	W90°19'32.05"
10	2	150' X 200'	HDD EXIT	518,491.39	3,600,485.18	N29"55'18.77"	W90°19'27.31"
11	2	85' X 200'	HDD ENTRY	516,578.65	3,600,837.78	N29°54'59.81"	W90°19'23.50''
12	2	117 X 346	ACCESS ROAD	516,605,51	3,601,012.88	N29"55'00.06"	W90°19'21.51"
13	2	60' X 330'	SOUTH OF HWY 90	516,027.44	3,601,5/3.45	N29"54'54.29"	W90°19'15.19''
13	2	100' X 263'	SOUTH OF HWY 90	515,833.73	3,601,760.57	N29°54'54.35"	W90°19'11.78''
14	2	100 X 263			- · · · ·		W90°19'12.77"
16	2	50' X 542'	SOUTH OF HWY 90	516,039.87	3,601,873.46	N29°54'53.14" N29°54'34.37"	W90°19'12.77
			SOUTH OF HWY 90	514,021.42	3,602,255.88		
17	3	275' X 1263	LEVEE/CANAL	503,991.07	3,603,116.07	N29"52'55.00"	W90°18'58.88''
18	3	275' x 1263'	LEVEE/CANAL	504,106.95	3,602,898.25	N29°52'56.17"	W90°19'01.34''
19	3	297' x 589'	LEVEE/CANAL	503,556.02	3,602,995.69	N29"52'50.71"	W90°19'00.29''
20	4	50' X 500'	PIPELINE X-ING	496,614.59	3,603,276.71	N29°51'41.9/"	W90°18'57.80''
21	4	50' X 585'	LOUISIANA CYPRESS LUMBER	493,505.66	3,603,374.76	N29°51'11.19"	W90°18'57.00"
22	5	50' X 648'	WELL CANAL	477,725.89	3,603,999.39	N29°48'34.92''	W90°18'51.50''
23	6	50' X 603'	PIPELINE X-ING	473,681.84	3,604,159.47	N29°47'54.88'	W90°18'50.09"
24	6	140 X 1002	BARGE PUSH SITE	467,002.09	3,604,358.83	N29°46'48.74''	W90°18'48.50''
25	7	50' X 728'	WELL CANAL	462,706.25	3,605,243.66	N29°46'06.13"	W09°18'38.90"
26	7	10' X 200'	HOD EXIT	457,426.33	3,606,430.36	N29"45"13.76"	W90°18'25.97''
27	7	40' X 200'	HDD EXIT	457,453.29	3,606,552.42	N29°45'14.02"	W90°18'24.58"
28	7	60' X 560'	HDD ENTRY	453,616.97	3,606,947.07	N29°44 36.01"	W90°18'20.49
29	7	50' × 1136'	PIPELINE X ING	453,410.50	3,607,096.36	N29°44'33.95"	W90°18'18.82''
30	10	10' X 200'	HOD EXIT	434,409.30	3,643,234.95	N29°41'22.46"	W90°11'31.03"
31	10	40' X 200'	HDD EXIT	434,530.76	3,643,266.51	N29°41'23.66"	W90°11'30.66''
32	11	60' X 200'	HDD ENTRY	432,956.61	3,649,108.79	N29°41'07.50"	W90°10'24.60"
33	11	60' X 200'	HDDENIRY	433,479.19	3,651,115.05	N29°41'12.47"	W90°10'01.80''
34	11	90' X 400'	HDD EXIT	436.054.95	3,655,562.45	N29°41'37.52"	W90°09'11.08"
35	12	462' X 1043	BARGE PUSH SITE	439.284.23	3,667,396.13	N29°42'08.26"	W90°06'56.52"
36	12	10' X 200'	HDD EXIT	438,733.79	3,669,328.17	N29°42'02.61"	W90°06'34.68"
37	12	35' X 262'	(2) HDD ENTRY	438,996.51	3,672,459,74	N29°42'04.88''	W90°05'58.29"
38	12	65' X 409'	HDD ENTRY	439,111.63	3,672,393.04	N29°42'06.02''	W90°05'59.88''
39	12	10' X 400'	HDD ENTRY	437,596.34	3,676,431.58	N29"41'50.59"	W90°05'14.28''
40	12	40' X 400'	HDD EXIT	437,714.20	3,6/6,4/3.22	N29°41'51.75"	W90°50'13.79"
41	13	60' X 200'	HDD ENTRY	434.371.59	3,683,163.55	N29°41'17.94"	W90°03'58.35"
42	13	60' X 400'	HDD EXIT	433,960.20	3,689,147.73	N29°41'13.21"	W90°02'50.56''
43	15	80' X 839'	BARGE PUSH SITE	433,360.20	3,703,836.87	N29°40'43.32"	W90°00'04.41"
4.5	15	175' X 200	BARGE PUSH SITE	430,900.42	3,703,970.59	N29°40'41.24"	W90°00'02.92"
45	15	69' X 200'	HDD EXIT	430,500.42	3,705,456.52	N29°40'55.51"	W89°59'45.88''
45							W89°59'36.88''
40	15 15	166' X 589' 50' X 2069'	PUSH SITE	432,804.92	3,706,245.88	N29°40'59.83'' N29°40'58.00''	
			ACCESS ROAD	432,631.55	3,/0/,26/.43		W89°59'25.32"
48	15	50' X 494'	ACCESS ROAD	432,670.41	3,708,248.12	N29°40'58.27"	W89°59'14.20"
49	15	40' X 197'	HDD EXIT	433,154.36	3,709,967.47	N29°41'02.86"	W89°58'54.64''
50	15	180' X 338'	HDD ENTRY	433,188.93	3,710,334.54	N29°41'03.16"	W89°58'50.47

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REVISION

DATE REV. BY: NO.



SURVEYING • ENGINEERING • ENVIRONMENTAL • GIS P.O. BOX 3106 * 116 VENTURE BLVD. * HOUMA, LOUISIANA 70361 * (985) 879-2731 HOUMA, LA. * HOUSTON, TX. * SAN ANTONIO, TX. * MIDLAND, TX. TEXAS SURVEY FIRM REGISTRATION NUMBER: 10193786 (HOUMA OFFICE)

EXTRA TEMPORARY WORKSPACE PROPOSED 12" HYDROGEN PIPELINE LULING TO ALLIANCE

DRAWN BY: MPH	SHEET:	41			
CHKD./APPD. BY: GML	SCALE:	NONE			
UPDATED BY:	DATE:	3/11/19			
DATA BASE: 13312	JOB NO.	13312-00			
MPH CAD FILE: 13312COE0041A2.DWG					

Station	Northing	Easting	Latitude	Longitude	Station	Northing	Easting	Latitude	Longitude
0+00	518427.87	3592764.31'	N29°55' 18.81"	W90°20' 55.06"	1182+13	434501.12	3643155.58	N29°41' 23.38"	W90°11' 31.92"
3+96	518307.17	3593141.07	N29°55' 17.58"	W90°20' 50.79"	1244+67	433024.20	3649232.94	N29°41' 08.16"	W90°10' 23.19"
25+76	516241.56	3592431.82	N29°54' 57.20"	W90°20' 59.05"	1259+93	433297.00	3650687.84	N29°41' 10.71"	W90°10'06.66"
33+53	515990.34	3593163.47	N29°54' 54.65"	W90°20' 50.76"	1295+81	435350.21	3653631.14	N29°41' 30.74"	W90°09' 33.06"
57+65	516652.16	3595482.95	N29°55' 01.00"	W90°20' 24.34"	1299+76	435519.46	3653986.66	N29°41' 32.38"	W90°09' 29.01'
100+80	517977.52	3599588.66	N29°55' 13.77"	W90°19' 37.55"	1431+22	439145.85	3666621.86	N29°42' 06.97"	W90°07' 05.32"
111+11	518433.08	3600513.90	N29°55' 18.19"	W90°19' 26.99"	1439+70	439084.55	3667450.14	N29°42' 06.28"	W90°06' 55.93"
118+00	517815.22	3600818.11	N29°55' 12.05"	W90°19' 23.60"	1443+29	438935.51	3667777.49	N29°42' 04.77"	W90°06' 52.24"
125+53	517084.36	3600957.58	N29°55' 04.80"	W90°19' 22.09"	1446+46	438843.67	3668079.27	N29°42' 03.83"	W90°06' 48.83"
131+67	516471.57	3600908.21	N29°54' 58.74"	W90°19' 22.71"	1464+36	438552.15	3669845.21	N29°42' 00.76"	W90°06' 28.84"
141+26	516011.07	3601749.09	N29°54' 54.11"	W90°19' 13.20"	1474+98	438612.83	3670896.80	N29°42' 01.24"	W90°06' 16.91"
142+24	515912.92	3601751.31	N29°54' 53.14"	W90°19' 13.19"	1491+45	439066.33	3672480.53	N29°42' 05.57"	W90°05' 58.90"
147+04	515682.56	3602171.49	N29°54' 50.82"	W90°19'08.43"	1539+29	437472.74	3676991.64	N29°41' 49.31"	W90°05' 07.94"
229+33	507486.66	3602909.88	N29°53' 29.63"	W90°19'00.87"	1540+96	437234.96	3677392.74	N29°41' 46.91"	W90°05' 03.43"
229+93	507426.45	3602913.78	N29°53' 29.03"	W90°19'00.83"	1578+35	434941.71	3679952.10	N29°41' 23.93"	W90°04' 34.69"
264+52	503970.45	3603050.59	N29°52' 54.81"	W90°18' 54.81"	1586+30	434638.18	3680670.67	N29°41' 20.85"	W90°04' 26.58"
265+82	503907.52	3602936.83	N29°52' 54.19"	W90°19'00.92"	1743+23	433561.91	3696326.71	N29°41' 08.46"	W90°01' 29.23"
268+40	503681.20	3603062.04	N29°52' 51.94"	W90°18' 59.52"	1746+09	433508.47	3696607.54	N29°41' 07.90"	W90°01' 26.05"
626+32	467917.88	3604477.70	N29°46' 57.79"	W90°18' 47.06"	1815+67	431402.86	3703239.67	N29°40' 46.30"	W90°00' 11.14"
627+87	467762.99	3604473.83	N29°46' 56.26"	W90°18' 47.12"	1820+88	431144.02	3703687.08	N29°40' 43.68"	W90°00' 06.10"
629+42	467608.15	3604469.95	N29°46' 54.73"	W90°18' 47.18"	1822+98	431002.56	3703841.52	N29°40' 42.27"	W90°00' 04.37"
641+45	466406.04	3604517.53	N29°46' 42.82"	W90°18' 46.76"	1831+67	431643.51	3704428.61	N29°40' 48.54"	W89°59' 57.63"
645+13	466045.89	3604587.94	N29°46' 39.25"	W90°18' 46.00"	1835+60	431885.06	3704736.33	N29°40' 50.90"	W89°59' 54.11"
646+68	465897.09	3604631.05	N29°46' 37.77"	W90°18'45.52"	1854+70	432810.71	3706406.94	N29°40' 59.87"	W89°59' 35.05"
758+56	454972.54	3607044.04	N29°44' 49.42"	W90°18' 19.26"	1872+91	432560.52	3708210.49	N29°40' 57.18"	W89°59' 14.64"
761+50	454680.21	3607071.81	N29°44' 46.52"	W90°18' 18.97"	1889+56	433206.77	3709956.74	N29°41' 03.38"	W89°58' 54.76'

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REVISION



Morris P. Hebert, Inc. SURVEYING • ENGINEERING • ENVIRONMENTAL • GIS P.O. BOX 3106 * 116 VENTURE BLVD. * HOUMA, LOUISIANA 70361 * (985) 879-2731 HOUMA, LA. * HOUSTON, TX. * SAN ANTONIO, TX. * MIDLAND, TX. TEXAS SURVEY FIRM REGISTRATION NUMBER: 10193786 (HOUMA OFFICE)

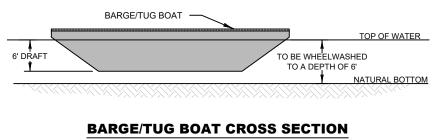
COORDINATE LIST PROPOSED 12" HYDROGEN PIPELINE LULING TO ALLIANCE

DRAWN BY: MPH	SHEET:	42		
CHKD./APPD. BY: GML	SCALE:	NONE		
UPDATED BY: MPH	DATE:	3/11/19		
DATA BASE: 13312	JOB NO.	13312-00		
MPH CAD FILE: 13312COE0042A2.DWG				

CALCULATION CHART							
	WETLANDS	OTHER WATERS	UPLANDS	TOTALS			
TEMPORARY EXCAVATION IN CU. YDS. (INCLUDES EXCAVATION FOR PUSH BARGE & WHEEL-WASHING)	289,966	74,075	10,670	374,711			
TEMPORARY EXCAVATION IN ACRES (INCLUDES EXCAVATION FOR PUSH BARGE & WHEEL-WASHING)	44.98	48.78	2.06	95.82			
TEMPORARY SPOIL IN CU. YDS. (INCLUDES SPOIL FOR PUSH BARGE & WHEEL-WASHING)	289,966	74,075	10,670	374,711			
TEMPORARY SPOIL IN ACRES (INCLUDES SPOIL FOR PUSH BARGE & WHEEL-WASHING)	117.18	160.06	18.24	295.48			
PROPOSED LIMESTONE FOR PROPOSED VALVE SITES IN CU. YDS.	-	-	649	649			
POTENTIAL BOARD MATS FOR TEMPORARY ACCESS DIRT ROADS IN CU. YDS.	-	-	7,692	7,692			
POTENTIAL BOARD MATS FOR TEMPORARY ACCESS DIRT ROADS IN ACRES	-	-	4.77	4.77			
POTENTIAL SAND FOR TEMPORARY ACCESS DIRT ROADS IN CU. YDS.	-	-	12,018	12,018			
POTENTIAL BOARD MATS FOR TEMPORARY PUSH SITES IN CU. YDS.	-	-	5,556	5,556			
POTENTIAL BOARD MATS FOR TEMPORARY PUSH SITES IN ACRES	-	-	3.44	3.44			
POTENTIAL SAND FOR TEMPORARY PUSH SITES IN CU. YDS.	-	-	5,556	5,556			
POTENTIAL BOARD MATS FOR T.W.S. & EXTRA T.W.S. IN CU. YDS. (INCLUDES HDD & BORE SITES)	11,111	-	4,445	15,556			
POTENTIAL BOARD MATS FOR T.W.S. & EXTRA T.W.S. IN ACRES (INCLUDES HDD & BORE SITES)	6.89	-	2.75	9.64			
POTENTIAL SAND FOR T.W.S. & EXTRA T.W.S. IN CU. YDS. (INCLUDES HDD & BORE SITES)	11,111	-	4,445	15,556			
PROPOSED SANDBAGS FOR FOREIGN PIPELINE CROSSINGS IN CU. YDS.	43	-	20	63			
PROPOSED CRUSHED ROCK FOR BANK STABILIZATION IN CU. YDS.	1,440	-	90	1,530			

EQUIPMENT LIST
AIRBOAT
BACKHOE
BARGE MOUNTED BUCKET DREDGE
MARSH BUGGY
OTHER TRACKED OR WHEELED VEHICLES
HDD EQUIPMENT
SELF PROPELLED BARGES
CARGO BARGES
WORK BARGES
LAY BARGE
JETTING EQUIPMENT
TUG BOAT

NATURAL BOTTOMS OF ALL ACCESS ROUTES, TEMPORARY R.O.W. & EXTRA TEMPORARY WORKSPACE IN OPEN WATER WILL BE WHEEL-WASHED TO A DEPTH OF 6'. THE BARGES AND TUGS THAT WILL BE USED WILL DRAFT 6'.



NOT TO SCALE

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DATA BASE:

13312

MPH CAD FILE: 13312COE0043A2.DWG

JOB NO.

13312-00

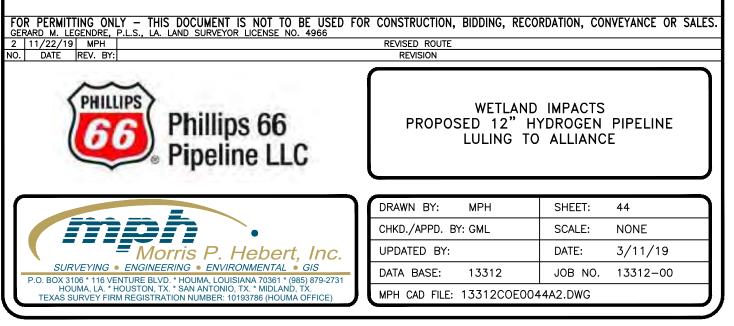
	WETLAND IMPACTS								
	PERMANENT R-O-W PALUSTRINE EMERGENT (PEM)	TEMPORARY R-O-W PALUSTRINE EMERGENT (PEM)	PERMANENT R-O-W ESTUARINE EMERGENT (E2EM)	TEMPORARY R-O-W ESTUARINE EMERGENT (E2EM)	PERMANENT R-O-W PALUSTRINE SCRUB-SHRUB (PSS)	TEMPORARY R-O-W PALUSTRINE SCRUB-SHRUB (PSS)			
ST. CHARLES	36.68	81.83	0.00	0.00	2.10	3.45			
JEFFERSON	0.00	0.00	8.81	2.00	2.36	0.72			
PLAQUEMINES	0.05	0.80	0.00	0.00	0.03	0.00			
TOTAL	36.73	82.63	8.81	2.00	4.49	4.17			
			UNITS ARE IN ACRES						

WETLAND IMPACTS										
	PA BOT	ANENT LUSTRI TOMLA WOOD	NE AND	PA BO1	DRARY LUSTRI TOMLA NOOD	NE AND	PERMANENT R-O-W PALUSTRINE BALD CYPRESS SWAMP (PFO2)	TEMPORARY R-O-W PALUSTRINE BALD CYPRESS SWAMP (PFO2)	OTHER WATERS (OW)	UPLANDS (U)
ST. CHARLES	0.06	0.26	2.45	0.24	0.47	3.70	5.76	12.01	77.56	17.51
JEFFERSON	0.15	0.24	1.01	0.00	0.29	1.27	0.83	1.42	101.74	0.15
PLAQUEMINES	0.00	0.00	0.00	0.02	0.00	0.04	0.00	0.00	29.54	13.60
TOTAL	0.21	0.50	3.46	0.26	0.76	5.01	6.59	13.43	208.84	31.26
							UNITS ARE IN ACRES			

WORKSPACE							
ST. CHARLES	JEFFERSON	PLAQUEMINES	TOTAL				
244.08 AC.	120.99 AC.	44.08 AC.	409.15 AC.				







GENERAL NOTES:

- 1. HYDROGEN PIPELINE SHALL COMPLY WITH ALL APPLICABLE STATE LAWS REGARDING THE NEED TO CONTACT THE LOUISIANA ONE-CALL SYSTEM (1-800-272-3020) TO LOCATE ANY BURIED CABLES & PIPELINES.
- 2. AN ON-THE-GROUND EFFORT WILL BE MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.
- 3. THIS PLAT WAS PREPARED FOR PERMITTING PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.
- 4. THESE DRAWINGS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.

CZM NOTES:

- ALL STRUCTURES, FACILITIES, WELL, AND PIPELINES/FLOWLINES OCCURRING IN OPEN WATER AREAS OR IN OILFIELD CANALS OR SLIPS SHALL BE REMOVED WITHIN 120 DAYS OF ABANDONMENT OF THE FACILITIES FOR THE HEREIN PERMITTED USE, UNLESS PRIOR WRITTEN APPROVAL TO LEAVE SUCH STRUCTURES IN PLACE IS RECEIVED FROM THE COASTAL MANAGEMENT DIVISION. THIS CONDITION DOES NOT PRECLUDE THE NECESSITY FOR REVISING THE CURRENT PERMIT OR OBTAINING A SEPARATE COASTAL USE PERMIT, SHOULD ONE BE REQUIRED, FOR SUCH REMOVAL ACTIVITIES.
- 2. AS-BUILT DRAWINGS SHALL BE SUBMITTED WITHIN 30 DAYS OF COMPLETION OF THIS PROJECT TO THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, COASTAL MANAGEMENT DIVISION, P.O. BOX 44487, BATON ROUGE, LA. 70804-4487.
- 3. STRUCTURES WILL BE MARKED/LIGHTED IN ACCORDANCE WITH U.S. COAST GUARD REGULATIONS.
- 4. IN ORDER TO ENSURE THE SAFETY OF ALL PARTIES, THE PERMITTEE SHALL CONTACT THE LOUISIANA ONE-CALL SYSTEM (1-800-272-3020) A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION (DIGGING, DREDGING, JETTING, ETC.) OR DEMOLITION ACTIVITY.

STANDARD MANATEE CONDITIONS FOR IN-WATER ACTIVITIES NOTE:

DURING IN-WATER WORK IN AREAS THAT POTENTIALLY SUPPORT MANATEES, ALL PERSONNEL ASSOCIATED WITH THE PROJECT SHALL BE INSTRUCTED & AWARE OF THE POTENTIAL PRESENCE OF MANATEES, MANATEES SPEED ZONES, & THE NEED TO AVOID COLLISIONS WITH, & INJURY TO, MANATEE. ALL PERSONNEL SHALL BE ADVISED THAT THERE ARE CIVIL & CRIMINAL PENALTIES FOR HARMING, HARASSING, OR KILLING MANATEES WHICH ARE PROTECTED UNDER THE MARINE MAMMAL PROTECTION ACT OF 1972 & THE ENDANGERED SPECIES ACT OF 1973. ADDITIONALLY, PERSONNEL SHALL BE INSTRUCTED NOT TO ATTEMPT TO FEED OR OTHERWISE INTERACT WITH THE ANIMAL.

ALL ON-SITE PERSONNEL ARE RESPONSIBLE FOR OBSERVING WATER-RELATED ACTIVITIES FOR THE PRESENCE OF MANATEE(S). TO MINIMIZE POTENTIAL IMPACTS TO MANATEES IN AREAS OF THEIR POTENTIAL PRESENCE, THE PERMITTEE SHALL INSURE THE FOLLOWING ARE ADHERED TO:

- ALL WORK, EQUIPMENT, & VESSEL OPERATION SHALL CEASE IF A MANATEE IS SPOTTED WITHIN A 50-FOOT RADIUS (BUFFER ZONE) OF THE ACTIVE WORK AREA. ONCE THE
 MANATEE HAS LEFT THE BUFFER ZONE ON ITS OWN ACCORD (MANATEES MUST NOT BE HERDED OR HARASSED INTO LEAVING), OR AFTER 30 MINUTES HAVE PASSED WITHOUT
 ADDITIONAL SIGHTINGS OF MANATEE(S) IN THE BUFFER ZONE, IN-WATER WORK CAN RESUME UNDER CAREFUL OBSERVATION FOR MANATEE(S).
- IF A MANATEE(S) IS SIGHTED IN OR NEAR THE PROJECT AREA, ALL VESSELS ASSOCIATED WITH THE PROJECT SHALL OPERATE AT "NO WAKE/IDLE" SPEEDS WITHIN THE CONSTRUCTION AREA AND AT ALL TIMES WHILE IN WATERS WHERE THE DRAFT OF THE VESSEL PROVIDES LESS THAN A FOUR-FOOT CLEARANCE FROM THE BOTTOM. VESSELS SHALL FOLLOW ROUTES OF DEEP WATER WHENEVER POSSIBLE.
- IF USED, SILTATION OR TURBIDITY BARRIERS SHALL BE PROPERLY SECURED, MADE OF MATERIAL IN WHICH MANATEES CANNOT BECOME ENTANGLED, AND BE MONITORED TO
 AVOID MANATEE ENTRAPMENT OR IMPEDING THEIR MOVEMENT.
- TEMPORARY SIGNS CONCERNING MANATEES SHALL BE POSTED PRIOR TO & DURING ALL IN-WATER PROJECT ACTIVITIES & REMOVED UPON COMPLETION. EACH VESSEL INVOLVED IN CONSTRUCTION ACTIVITIES SHALL DISPLAY AT THE VESSEL, A TEMPORARY SIGN AT LEAST 8 ½" X 11" READING LANGUAGE SIMILAR TO THE FOLLOWING: "CAUTION BOATERS: MANATEE AREA/ IDLE SPEED IS REQUIRED IN CONSTRUCTION AREA & WHERE THERE IS LESS THAN FOUR FOOT BOTTOM CLEARANCE WHEN MANATEE IS PRESENT". A SECOND TEMPORARY SIGN MEASURING 8 ½" X 11" SHALL BE POSTED AT A LOCATION PROMINENTLY VISIBLE TO ALL PERSONNEL ENGAGED IN WATER-RELATED ACTIVITIES & SHALL READ LANGUAGE SIMILAR TO THE FOLLOW: "CAUTION: MANATEE AREA/EQUIPMENT MUST BE SHUTDOWN IMMEDIATELY IF A MANATEE COMES WITHIN 50 FEET OF OPERATION".
- COLLISIONS WITH, INJURY TO, OR SIGHTING OF MANATEES SHALL BE IMMEDIATELY REPORTED TO THE U.S. FISH & WILDLIFE SERVICE'S LOUISIANA ECOLOGICAL SERVICES OFFICE (337/291-3100) & THE LOUISIANA DEPARTMENT OF WILDLIFE & FISHERIES, NATURAL HERITAGE PROGRAM (225/765-2821). PLEASE PROVIDE THE NATURE OF THE CALL (I.E., REPORT OF AN INCIDENT, MANATEE SIGHTING, ETC.); TIME OF INCIDENT/SIGHTING; & THE APPROXIMATE LOCATION, INCLUDING THE LATITUDE & LONGITUDE COORDINATES, IF POSSIBLE.

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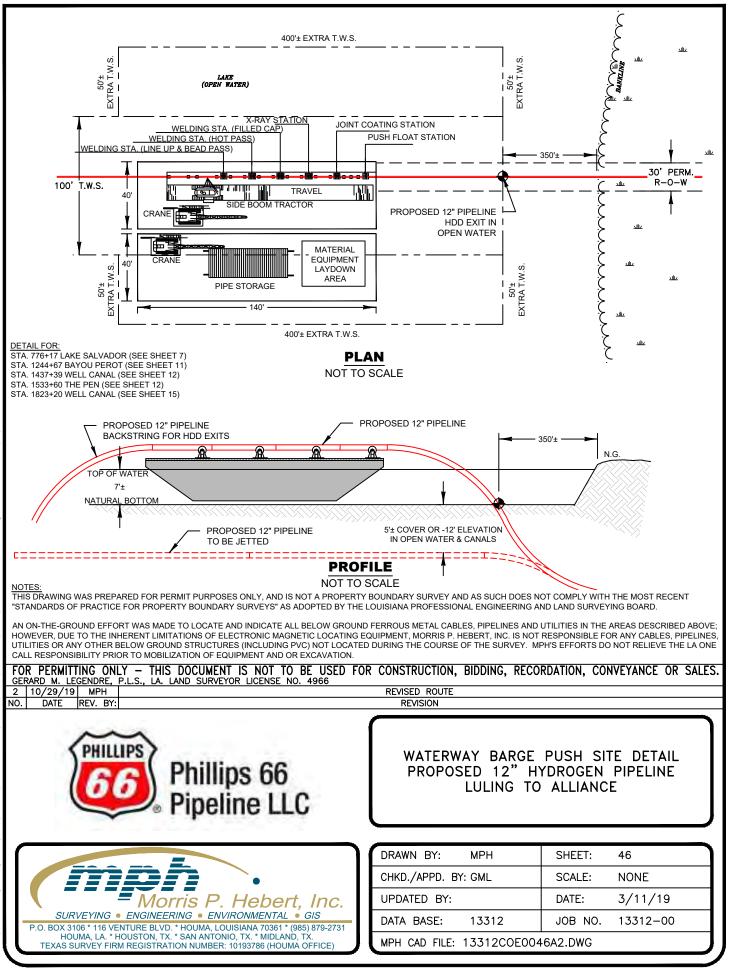
1 07/19/19 MPH NO. DATE REV. BY:

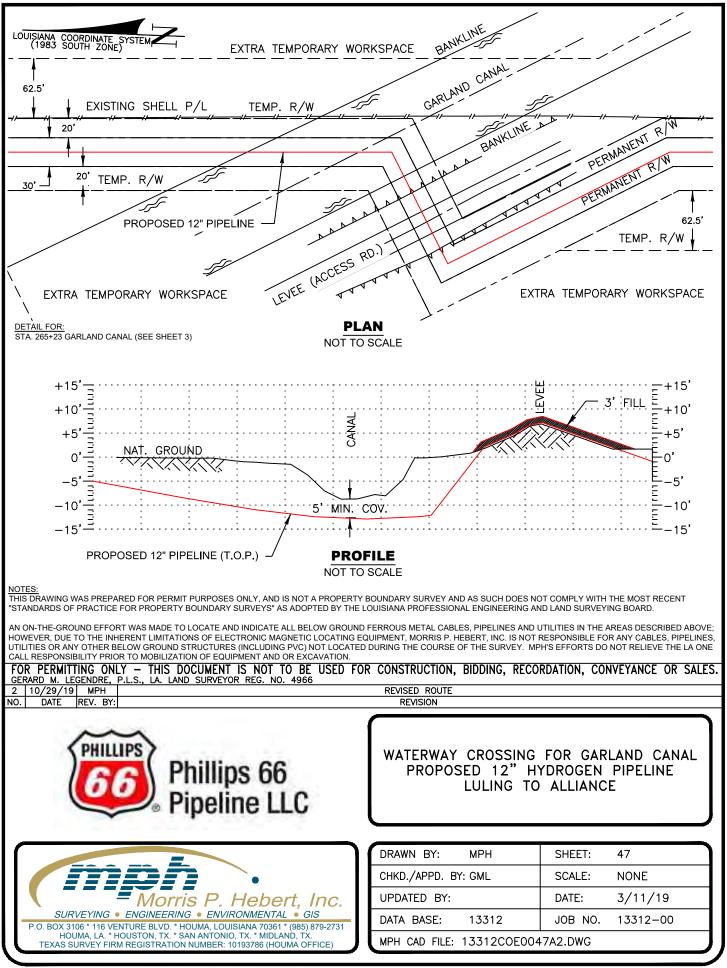
REVISION

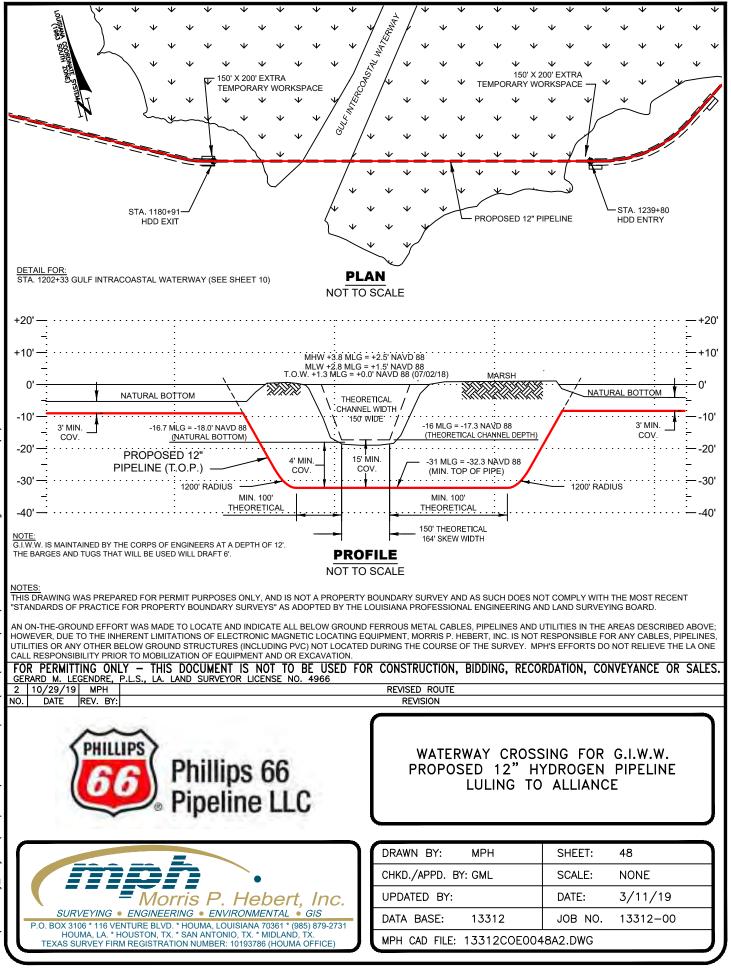


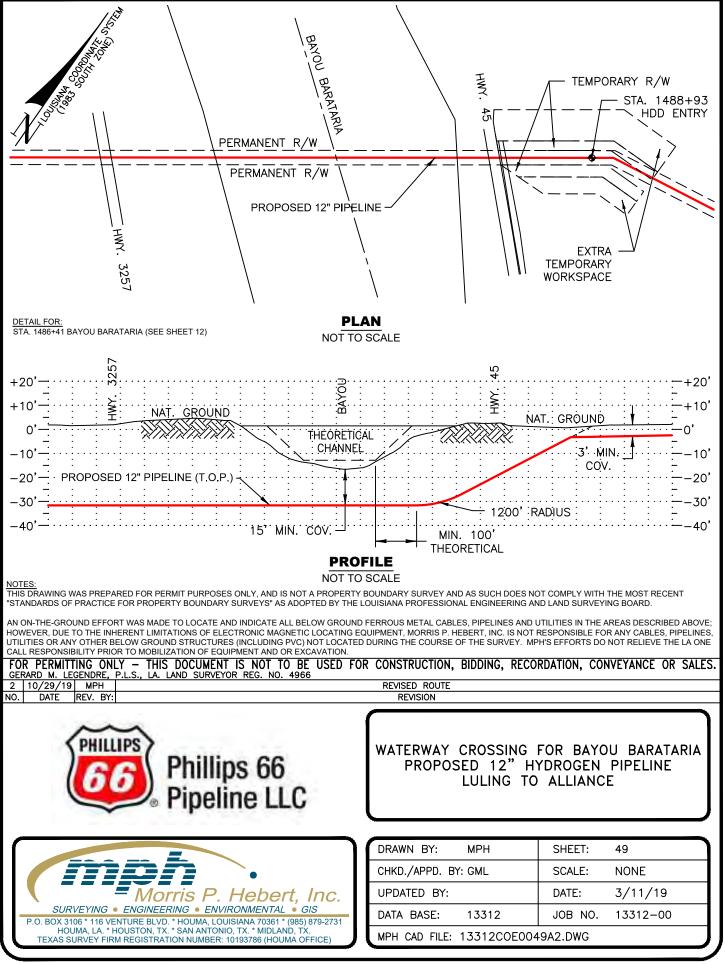
Morris P. Hebert, Inc. SURVEYING • ENGINEERING • ENVIRONMENTAL • GIS P.O. BOX 3106 * 116 VENTURE BLVD. * HOUMA, LOUISIANA 70361 * (985) 879-2731 HOUMA, LA. * HOUSTON, TX. * SAN ANTONIO, TX. * MIDLAND, TX. TEXAS SURVEY FIRM REGISTRATION NUMBER: 10193786 (HOUMA OFFICE) GENERAL NOTES, CZM NOTES, & STANARD MANATEE CONDITIONS PROPOSED 12" HYDROGEN PIPELINE LULING TO ALLIANCE

DRAWN BY: MPH	SHEET:	45			
CHKD./APPD. BY: GML	SCALE:	NONE			
UPDATED BY:	DATE:	3/11/19			
DATA BASE: 13312	JOB NO.	13312-00			
MPH CAD FILE: 13312COE0045A2.DWG					

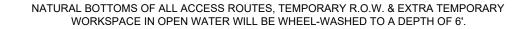


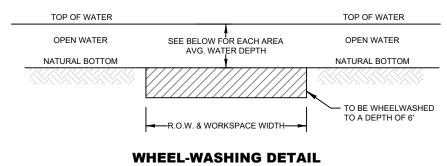






11/1/19 9:44:32am DATE: PLOT Pipeline\DWG\Permits\COE\13312COE0049A2.dwg Ħ 66\13312 P:\01-Survey_Projects\Phillips





NOT TO SCALE

WHEEL-WASHING AREAS CALCULATIONS

P.O.B. LATITUDE	P.O.B. LONGITUDE	P.O.E. LATITUDE	P.O.E. LONGITUDE	AVERAGE DEPTH	LENGTH X WIDTH X DEPTH	DISPLACED TEMP. CUBIC YARDS	
29°47'15.16"	90°14'18.92"	29°46'48.70"	90°18'46.97"	4.2' DEEP	24,365' X 10' X 1.8'	16,009 CU. YDS.	
29°41'08.66"	90°10'25.44"	29°41'08.17"	90°10'23.24"	4.1' DEEP	200' X 130' X 1.9'	1,830 CU. YDS.	
29°41'05.11"	90°10'23.93"	29°41'07.08"	90°10'24.09"	4.0' DEEP	200' X 50' X 2.0'	741 CU. YDS.	
29°41'13.81"	90°10'01.47"	29°41'12.69"	90°10'03.34"	4.1' DEEP	200' X 130' X 1.9'	1,830 CU. YDS.	
29°41'04.92"	90°10'01.74"	29°41'11.83"	90°10'02.27"	4.0' DEEP	700' X 50' X 2.0'	2,593 CU. YDS.	
29°41'08.87"	90°09'32.44"	29°41'35.83"	90°09'14.05"	4.0' DEEP	3,500' X 50' X 2.0'	12,963 CU. YDS.	
29°41'51.92"	90°05'16.14"	29°41'50.56"	90°05'11.88"	4.8' DEEP	400' X 120' X 1.2'	2,133 CU. YDS.	
29°38'34.20"	90°05'45.34"	29°41'18.54"	90°04'02.79"	5.5' DEEP	19,263' X 50' X 0.5'	17,836 CU. YDS.	
29°41'18.80"	90°03'57.14"	29°41'18.95"	90°03'59.40"	4.8' DEEP	200' X 120' X 1.2'	1,067 CU. YDS.	
29°40'46.84"	90°04'05.51"	29°41'14.26"	90°02'54.30"	5.5' DEEP	7,000' X 50' X 0.5'	6,481 CU. YDS.	
29°41'14.30"	90°02'52.74"	29°41'13.98"	90°02'48.22"	4.8' DEEP	200' X 130' X 1.2'	1,156 CU. YDS.	
29°40'45.43"	90°00'08.85"	29°40'46.11"	90°00'00.24"	4.8' DEEP	800' X 160' X 1.2'	5,689 CU. YDS.	
29°40'41.99"	90°00'03.66"	29°40'40.49"	90°00'02.18"	4.8' DEEP	200' X 175' X 1.2'	1,556 CU. YDS.	
29°40'54.47"	89°59'46.53"	29°40'55.41"	89°59'44.53"	4.8' DEEP	200' X 120' X 1.2'	1,067 CU. YDS.	
	29°47'15.16" 29°41'08.66" 29°41'05.11" 29°41'04.92" 29°41'04.92" 29°41'04.92" 29°41'51.92" 29°38'34.20" 29°41'18.80" 29°40'46.84" 29°40'46.84" 29°40'45.43" 29°40'45.43"	29°47'15.16" 90°14'18.92" 29°41'08.66" 90°10'25.44" 29°41'05.11" 90°10'23.93" 29°41'13.81" 90°10'14.74" 29°41'04.92" 90°10'01.47" 29°41'08.87" 90°03'32.44" 29°41'51.92" 90°05'16.14" 29°38'34.20" 90°05'45.34" 29°41'18.80" 90°03'57.14" 29°41'446.84" 90°04'05.51" 29°41'14.30" 90°02'52.74" 29°40'45.43" 90°00'08.85" 29°40'41.99" 90°00'03.66"	29°47'15.16" 90°14'18.92" 29°46'48.70" 29°41'08.66" 90°10'25.44" 29°41'08.17" 29°41'05.11" 90°10'23.93" 29°41'07.08" 29°41'13.81" 90°10'10.47" 29°41'12.69" 29°41'04.92" 90°10'01.74" 29°41'13.83" 29°41'08.87" 90°0'32.44" 29°41'35.83" 29°41'51.92" 90°5'16.14" 29°41'35.68" 29°3'34.20" 90°05'16.14" 29°41'18.54" 29°41'45.84" 90°03'57.14" 29°41'18.55" 29°41'46.84" 90°04'05.51" 29°41'13.98" 29°41'14.30" 90°02'52.74" 29°41'13.98" 29°40'45.43" 90°00'03.66" 29°40'46.41"	29°41'08.66" 90°10'25.44" 29°41'08.17" 90°10'23.24" 29°41'05.11" 90°10'23.93" 29°41'07.08" 90°10'24.09" 29°41'13.81" 90°10'01.47" 29°41'12.69" 90°10'03.34" 29°41'04.92" 90°10'01.74" 29°41'13.83" 90°10'02.27" 29°41'51.92" 90°0'32.44" 29°41'55.58" 90°0'14.05" 29°41'51.92" 90°0'5'16.14" 29°41'50.56" 90°0'14.05" 29°38'34.20" 90°0'5'45.34" 29°41'18.54" 90°04'02.79" 29°41'46.84" 90°04'05.51" 29°41'18.95" 90°03'59.40" 29°41'46.84" 90°04'05.51" 29°41'14.26" 90°02'54.30" 29°41'14.30" 90°02'52.74" 29°41'13.98" 90°02'48.22" 29°40'45.43" 90°00'08.85" 29°40'46.11" 90°00'00.24" 29°40'45.43" 90°00'03.66" 29°40'40.49" 90°00'02.18"	29°47'15.16" 90°14'18.92" 29°46'48.70" 90°18'46.97" 4.2' DEEP 29°41'08.66" 90°10'25.44" 29°41'08.17" 90°10'23.24" 4.1' DEEP 29°41'05.11" 90°10'23.93" 29°41'07.08" 90°10'24.09" 4.0' DEEP 29°41'13.81" 90°10'10.147" 29°41'12.69" 90°10'03.34" 4.1' DEEP 29°41'04.92" 90°10'01.74" 29°41'18.38" 90°10'02.27" 4.0' DEEP 29°41'08.87" 90°0'32.44" 29°41'55.56" 90°0'14.05" 4.0' DEEP 29°41'51.92" 90°0'5'16.14" 29°41'55.56" 90°0'14.05" 4.8' DEEP 29°41'8.80" 90°0'0'55.14" 29°41'18.54" 90°0'4'02.79" 5.5' DEEP 29°41'48.80" 90°0'0'55.14" 29°41'18.54" 90°0'2'54.30" 4.8' DEEP 29°41'44.84" 90°0'0'55.14" 29°41'13.98" 90°0'2'54.30" 5.5' DEEP 29°41'14.30" 90°0'0'55.14" 29°41'13.98" 90°0'2'48.22" 4.8' DEEP 29°40'46.84" 90°0'0'88.5" 29°40'46.11" 90°0'0'0.24" 4.8' DEEP 29°40'45.43"	29°47'15.16"90°14'18.92"29°46'48.70"90°18'46.97"4.2' DEEP24,365' X 10' X 1.8'29°41'08.66"90°10'23.94"29°41'08.17"90°10'23.24"4.1' DEEP200' X 130' X 1.9'29°41'05.11"90°10'23.93"29°41'07.08"90°10'24.09"4.0' DEEP200' X 50' X 2.0'29°41'04.92"90°10'01.47"29°41'12.69"90°10'02.27"4.0' DEEP200' X 50' X 2.0'29°41'08.87"90°10'01.74"29°41'35.83"90°01'02.27"4.0' DEEP700' X 50' X 2.0'29°41'51.92"90°5'16.14"29°41'35.83"90°09'14.05"4.0' DEEP3,500' X 50' X 2.0'29°41'51.92"90°5'16.14"29°41'5.56"90°5'11.88"4.8' DEEP400' X 120' X 1.2'29°38'34.20"90°03'57.14"29°41'18.54"90°04'02.79"5.5' DEEP19,263' X 50' X 0.5'29°41'48.80"90°04'05.51"29°41'14.26"90°02'54.30"4.8' DEEP200' X 130' X 1.2'29°40'46.84"90°04'05.51"29°41'13.98"90°02'54.30"5.5' DEEP7,000' X 50' X 0.5'29°41'14.30"90°02'52.74"29°41'13.98"90°02'48.22"4.8' DEEP200' X 130' X 1.2'29°40'45.43"90°00'88.5"29°40'46.11"90°00'02.18"4.8' DEEP800' X 160' X 1.2'29°40'41.99"90°00'3.66"29°40'40.49"90°00'2.18"4.8' DEEP200' X 130' X 1.2'	

APPROXIMATELY 72,951 TOTAL CUBIC YARDS (48.53 ACRES) OF WATER BOTTOM TO BE TEMPORARY DISPLACED DURING PROPOSED WHEEL-WASHING.

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Pipeline\DWG\Permits\COE\13312C0E0050A2.dwg PLOT DATE: 11/1/19 9:32:02am

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 GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR LICENSE NO. 4966

 2
 10/29/19

 MPH
 REVISED ROUTE

 NO.
 DATE

 REV.
 REVISION





WHEEL-WASHING DETAIL, CALCULATIONS & COORDINATES PROPOSED 12" HYDROGEN PIPELINE LULING TO ALLIANCE

DRAWN BY: MPH	SHEET:	50			
CHKD./APPD. BY: GML	SCALE:	NONE			
UPDATED BY: MPH	DATE:	3/22/19			
DATA BASE: 13312	JOB NO.	13312-00			
MPH CAD FILE: 13312COE0050A2.DWG					