

LEGEND: PER SWCA DELINEATION (DATED 12/11/18)

- SITE BOUNDARY
- CE PROPOSED OVERHEAD ELECTRIC
- PROPOSED EASEMENT
- PROPOSED PIPELINE
- PROPOSED DRAINAGE DITCH
- PROPOSED REROUTED SABINE RIVER AUTHORITY (SRA) CANAL
- PROPOSED FACILITY FOOTPRINT
- S PROPOSED WASTEWATER TREATMENT PLANT (WWTP) OUTFALL LINE

- EMERGENT WETLANDS - AVOIDED
- FORESTED WETLANDS - AVOIDED
- SCRUB-SHRUB WETLANDS - AVOIDED
- EMERGENT WETLANDS - FILL
- EMERGENT WETLANDS - EXCAVATION/GRADE
- FORESTED WETLANDS - FILL
- FORESTED WETLANDS - EXCAVATION/GRADE
- SCRUB-SHRUB WETLANDS - FILL
- SCRUB-SHRUB WETLANDS - EXCAVATION/GRADE

- JURISDICTIONAL WATERBODIES - FILL
- NON-JURISDICTIONAL WATERBODIES
- JURISDICTIONAL WATERBODIES-AVOIDED
- DRAWING SHEET LIMITS
- WWTP WASTEWATER TREATMENT PLANT

NOTES:

1. WETLAND AREAS AFFECTED BY THE SITE IMPROVEMENTS IN CONJUNCTION WITH THE USE OF LIDAR TOPOGRAPHIC INFORMATION, SOME FILL REQUIREMENT IS APPROXIMATED TO A MINIMUM HEIGHT OF 12-INCHES FOR ANALYSIS PURPOSE IN THE ABSENCE OF DATA FROM SWCA.
2. ALL IMPACTS TO WETLANDS AND STREAMS ARE PERMANENT, THERE ARE NO TEMPORARY IMPACTS, UNLESS OTHERWISE STATED.
3. ENTIRE BOUNDARY OF THE SITE IS FILL FOR SITE HARDENING EFFORTS. PORTIONS OF WETLANDS WITH EXCAVATION/CUT DENOTES EXCAVATION AND GRADING TO REACH SITE HARDENING ELEVATIONS.
4. WETLANDS OUTLINE COLOR DENOTES TYPE OF WETLAND. WETLANDS HATCH COLORS DENOTES TYPE OF WORK DONE (E.G. FILL, EXCAVATION/CUT).
5. PLOT PLAN LAYOUT, ELEVATIONS, AND CROSS-SECTIONS RECEIVED FROM BMZ DATED 09/03/2019 AND 09/08/2019.
6. CONSULT OVERALL LIMITS OF DISTURBANCE SHEETS FOR OVERALL SITE IMPACTS ASSOCIATED WITH ITEM 2 AND ITEM 3 ABOVE.

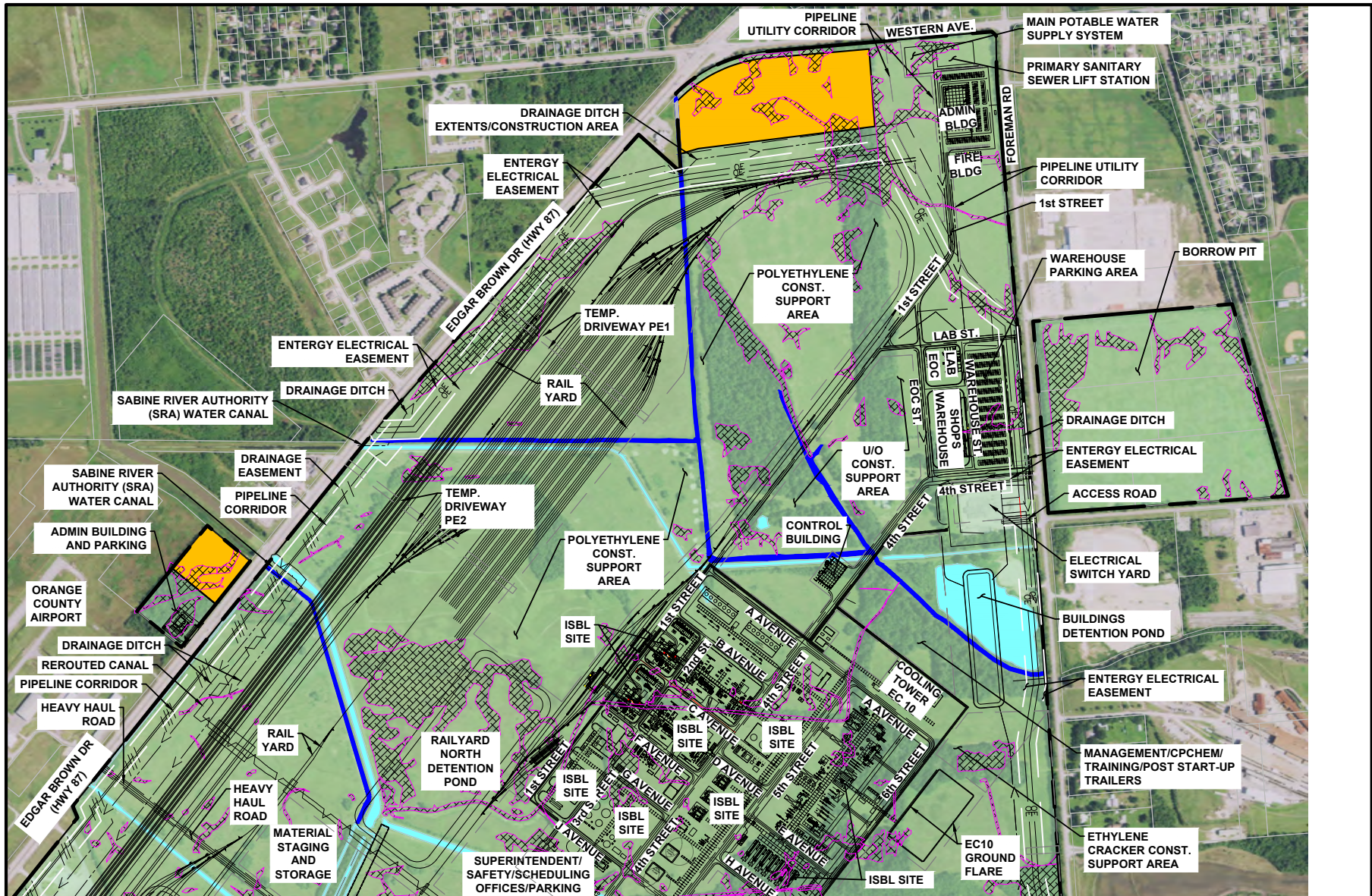
USGC 2 PETROCHEMICAL PROJECT

WETLAND SITE PLAN

EXHIBIT B.1

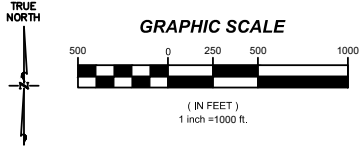
PROJECT No. 58FFHXXX

DATE: 11/20/2019

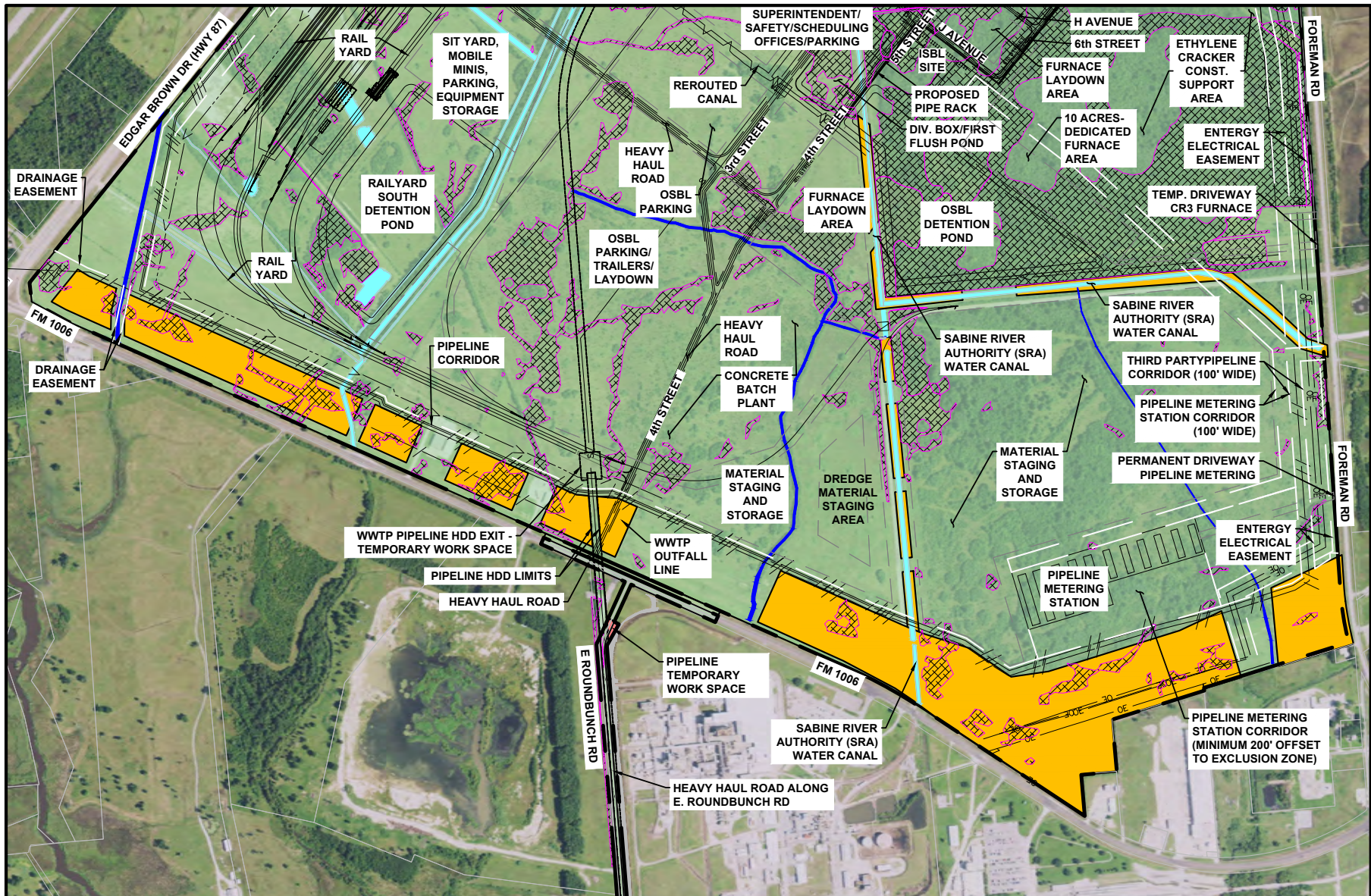


LEGEND PER SWCA DELINEATION (DATED 12/11/18)

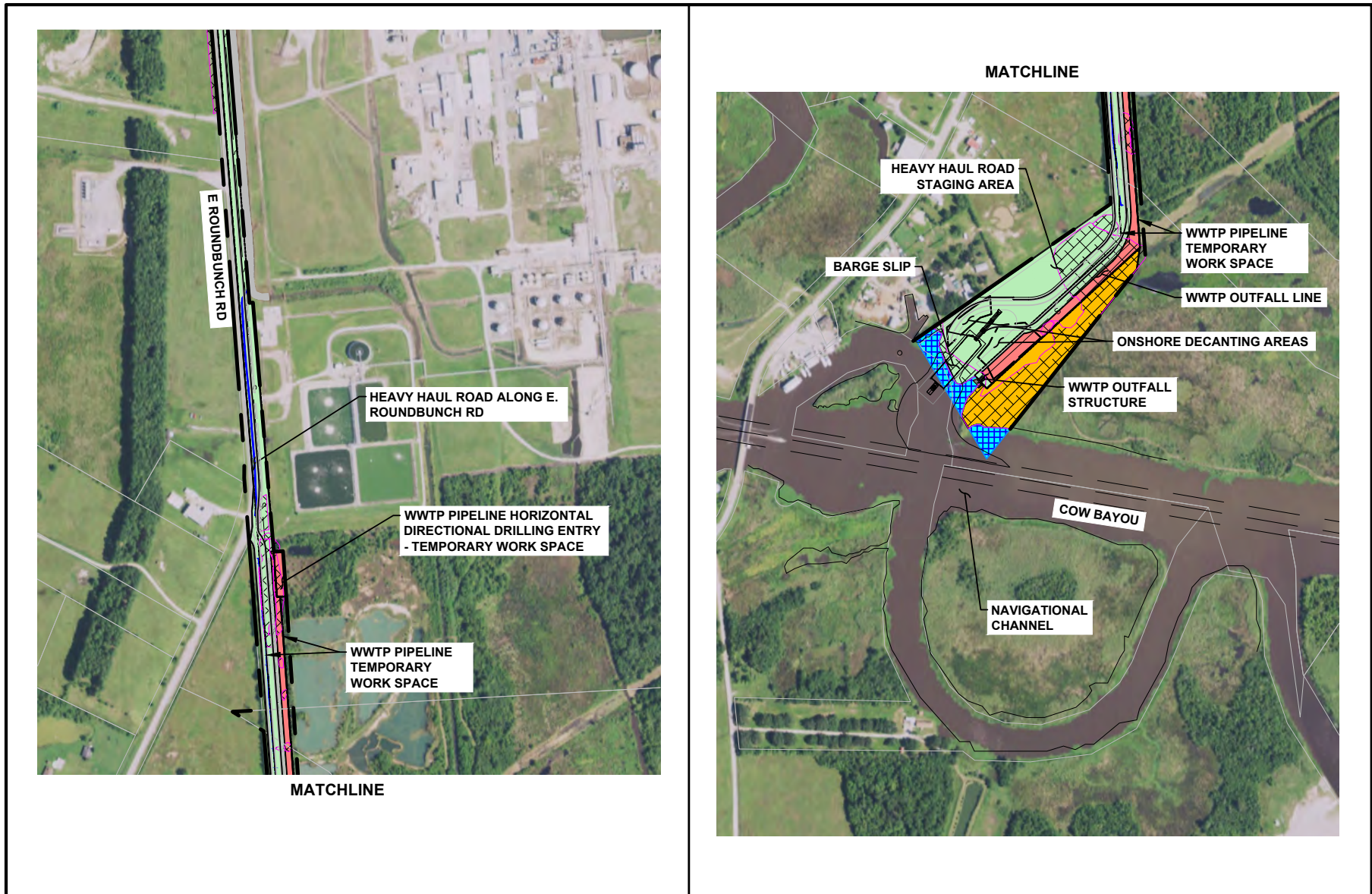
	SITE BOUNDARY		LIMITS OF DISTURBANCE
	PROPOSED OVERHEAD ELECTRIC		AREA TO BE AVOIDED
	PROPOSED EASEMENT		WETLANDS
	EXISTING/PROPOSED PIPELINE		SABINE RIVER AUTHORITY
	PROPOSED DRAINAGE DITCH		JURISDICTIONAL WATERBODIES - FILL
	PROPOSED REROUTED SABINE RIVER AUTHORITY CANAL		NON-JURISDICTIONAL WATERBODIES
	PROPOSED FACILITY FOOTPRINT		JURISDICTIONAL WATERBODIES-AVOIDED
	WASTERWATER TREATMENT PLANT OUTFALL PIPE LINE		



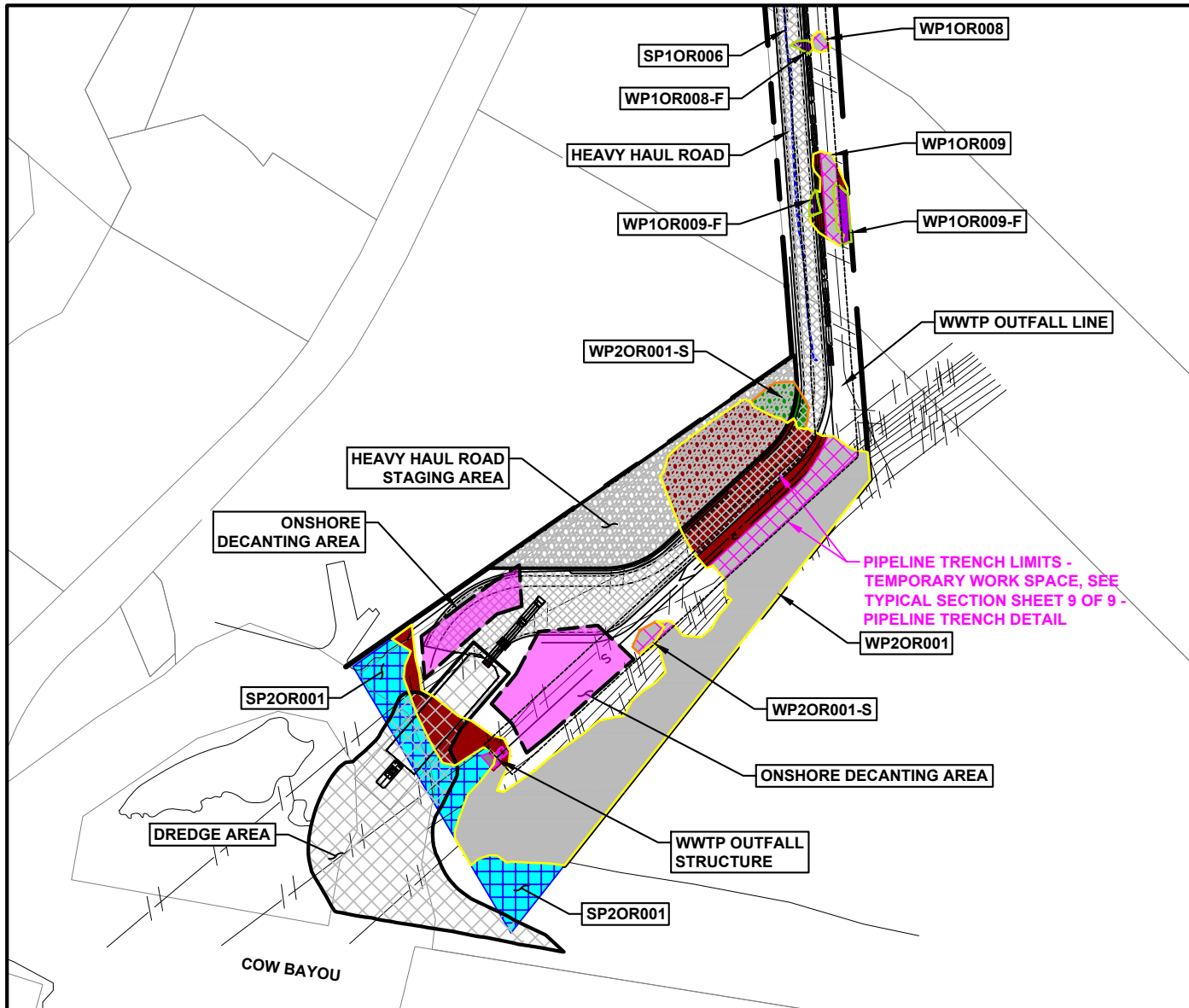
	USGC 2 PETROCHEMICAL PROJECT
	LIMITS OF DISTURBANCE SHEET 1 OF 3
EXHIBIT B.4	
PROJECT No. 58FFHXXX	
DATE: 11/20/2019	



LEGEND PER SWCA DELINEATION (DATED 12/11/18)		SRA SABINE RIVER AUTHORITY WWTW WASTEWATER TREATMENT PLANT		TRUE NORTH GRAPHIC SCALE 500 0 250 500 1000 (IN FEET) 1 inch = 1000 ft.	USGC 2 PETROCHEMICAL PROJECT Chevron Phillips Chemical Company LLC EXHIBIT B.4 PROJECT No. 58FFHXXX DATE: 11/20/2019	LIMITS OF DISTURBANCE SHEET 2 OF 3 JACOBS
--- SITE BOUNDARY --- OE --- OE --- PROPOSED OVERHEAD ELECTRIC --- PROPOSED EASEMENT --- EXISTING/PROPOSED PIPELINE --- PROPOSED DRAINAGE DITCH --- PROPOSED REROUTED SABINE RIVER AUTHORITY CANAL --- PROPOSED FACILITY FOOTPRINT --- WASTEWATER TREATMENT PLANT OUTFALL PIPE LINE	--- LIMITS OF DISTURBANCE --- AREA TO BE AVOIDED --- WETLANDS --- TEMPORARY IMPACT AREA --- JURISDICTIONAL WATERBODIES - FILL --- JURISDICTIONAL WATERBODIES --- JURISDICTIONAL WATERBODIES-AVOIDED					



<p>LEGEND PER SWCA DELINEATION (DATED 12/11/18)</p> <p>--- SITE BOUNDARY</p> <p>--- OE --- OE --- PROPOSED OVERHEAD ELECTRIC</p> <p>--- PROPOSED EASEMENT</p> <p>--- EXISTING/PROPOSED PIPELINE</p> <p>--- PROPOSED DRAINAGE DITCH</p> <p>--- PROPOSED REROUTED SABINE RIVER AUTHORITY CANAL</p> <p>--- PROPOSED FACILITY FOOTPRINT</p> <p>--- S --- WASTEWATER TREATMENT PLANT OUTFALL PIPE LINE</p>		<p>--- LIMITS OF DISTURBANCE</p> <p>--- AREA TO BE AVOIDED</p> <p>--- WETLANDS</p> <p>--- TEMPORARY IMPACT AREA</p> <p>--- JURISDICTIONAL WATERBODIES - FILL</p> <p>--- NON-JURISDICTIONAL WATERBODIES</p> <p>--- JURISDICTIONAL WATERBODIES-AVOIDED</p>		<p>--- COW BAYOU</p> <p>--- WWTP WASTEWATER TREATMENT PLANT</p>		<p>TRUE NORTH</p> <p>GRAPHIC SCALE</p> <p>300 0 150 300 600</p> <p>(IN FEET)</p> <p>1 inch = 600 ft.</p>		<p>USGC 2 PETROCHEMICAL PROJECT</p> <p>Chevron Phillips Chemical Company LLC</p> <p>EXHIBIT B.4</p> <p>PROJECT No. 58FFHXXX</p> <p>DATE: 11/20/2019</p>		<p>LIMITS OF DISTURBANCE SHEET 3 OF 3</p> <p>JACOBS</p>	
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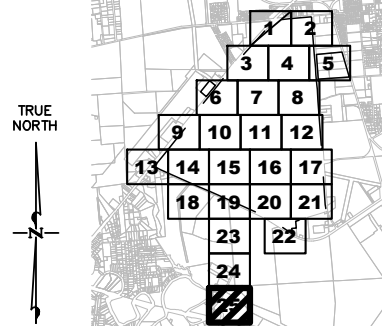
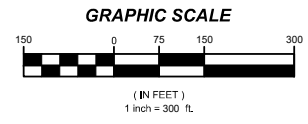


SHEET 25 OF 25			
WETLANDS IMPACTED			
NAME	AREA, ACRES	FILL, CY	CUT, CY
WP1OR008	0.0002	0.32	-
WP1OR008-F	0.01	24.03	-
WP1OR009	0.07	107.06	-
WP1OR009-F	0.05	124.88	-
WP2OR001	1.67	1,980.74	8,760.00
WP2OR001-S	0.10	161.33	-

SHEET 25 OF 25			
WETLANDS TEMPORARY IMPACTS			
NAME	AREA, ACRES	FILL, CY	CUT, CY
WP1OR008	0.02	34.01	-
WP1OR009	0.10	153.35	-
WP2OR001	0.37	593.07	-
WP2OR001-S	0.04	0.04	-

SHEET 25 OF 25	
WETLANDS AVOIDED	
NAME	AREA, ACRE
WP2OR001	2.72
WP1OR009	0.01
WP1OR009-F	0.05
WP1OR008	0.002

SHEET 25 OF 25					
JURISDICTIONAL WATERBODIES					
NAME	IMPACTED, ACRES	AVOIDED, ACRES	IMPACTED, LF	AVOIDED, LF	FILL IMPACT, CY
SP1OR006	0.03	-	698	-	51.69



LEGEND: PER SWCA DELINEATION (DATED 12/11/18)		
	EMERGENT WETLANDS - AVOIDED	
	FORESTED WETLANDS - AVOIDED	
	SCRUB-SHRUB WETLANDS - AVOIDED	
	EMERGENT WETLANDS - FILL	
	EMERGENT WETLANDS - EXCAVATION/GRADE	
	FORESTED WETLANDS - FILL	
	FORESTED WETLANDS - EXCAVATION/GRADE	
	SCRUB-SHRUB WETLANDS - FILL	
	SCRUB-SHRUB WETLANDS - EXCAVATION/GRADE	

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 6. CONSULT OVERALL LIMITS OF DISTURBANCE SHEETS FOR OVERALL SITE IMPACTS ASSOCIATED WITH ITEM 2 AND ITEM 3 ABOVE.

USGC 2 PETROCHEMICAL PROJECT

Chevron Phillips
Chemical Company LLC

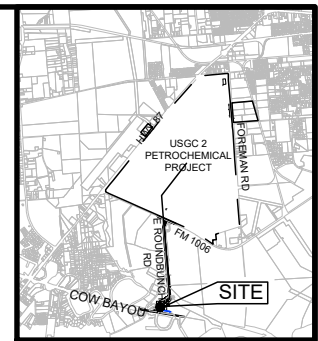
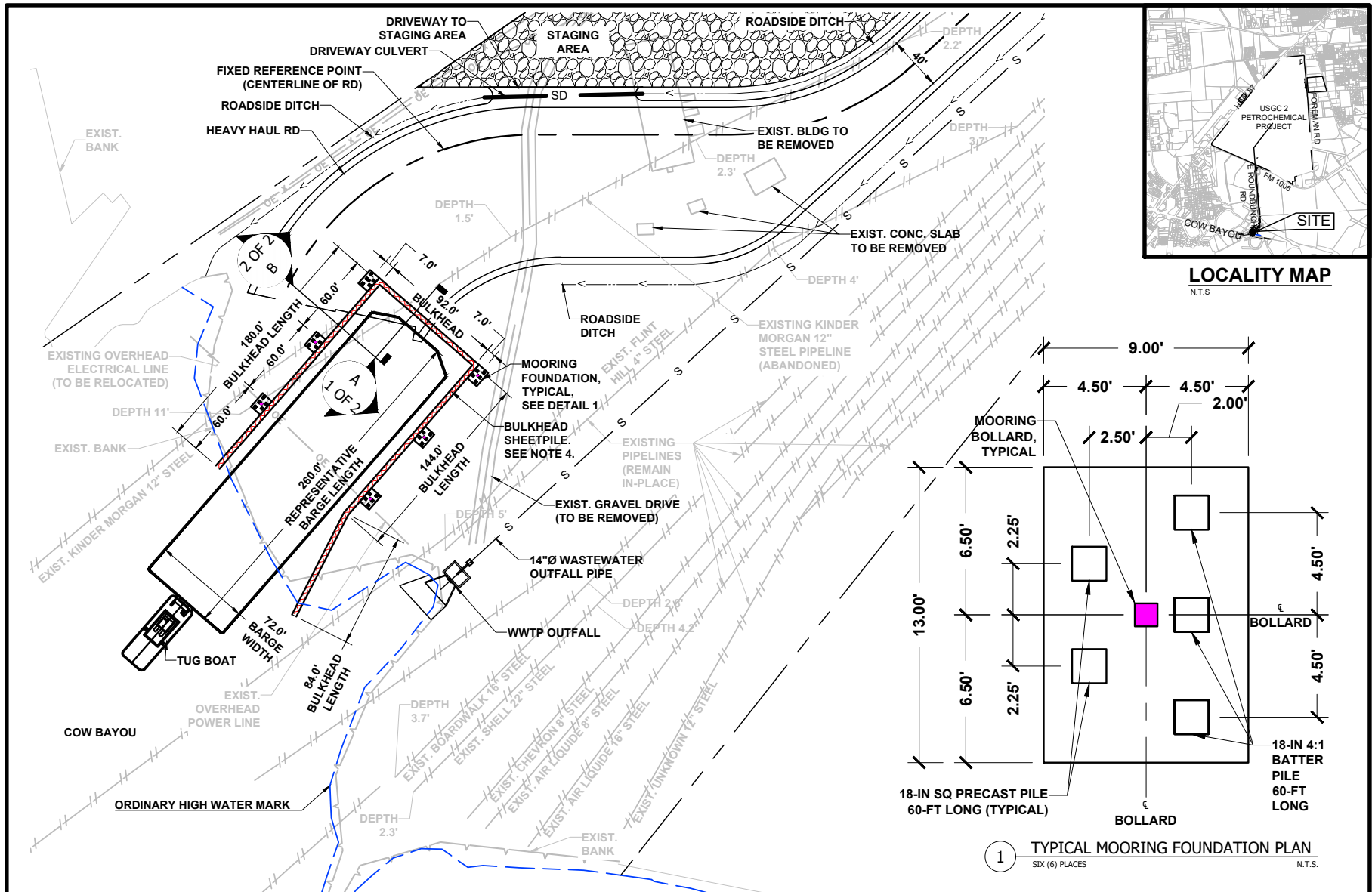
WETLANDS AND WATERS OF THE US IMPACT MAP SHEET 25 OF 25

EXHIBIT B.2

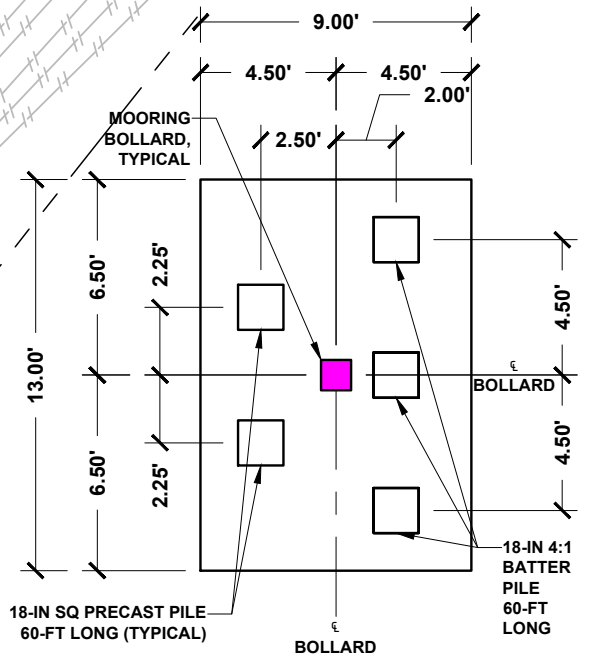
PROJECT No. 58FFHXXX

DATE: 11/20/2019

JACOBS



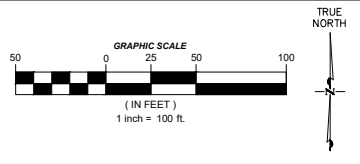
LOCALITY MAP
N.T.S.



1 TYPICAL MOORING FOUNDATION PLAN
SIX (6) PLACES
N.T.S.

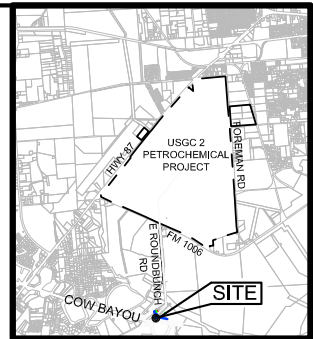
- NOTE:**
- DREDGING METHODS SEE EXHIBIT - COW BAYOU DREDGE - B.6.
 - DREDGE DESIGN RECEIVED FROM BMZ, DATED 11/12/2019 DRAWING NO. 60-CVDSK-00006 (COW BAYOU DREDGE) HORIZONTAL DATUM: TX SC 4204 NAD 83 (96) US FEET, VERTICAL DATUM: NAVD 88.
 - 500-LF U-SHAPED AZ40 TYPE SHEET PILE BULKHEAD 50-FEET TALL WITH A 6-FEET REVEAL ABOVE THE MEAN LOWER LOW WATER (MLLW) LEVEL.
 - BULKHEAD BACKFILL SHALL BE ENGINEERED GRANULAR MATERIAL.
 - BURIED THREADED STEEL RODS AND WHALER BEAMS WILL BE UTILIZED TO SECURE THE BULKHEAD WALL TO THE TIEBACK ANCHORS.
 - INFORMATION RECEIVED FROM BMZ, DATED 11/12/2019 DREDGED MATERIAL MANAGEMENT PLAN (DMMP) DOCUMENT NO. 60-EVPL-00001.

LEGEND:
— OHWM (ORDINARY HIGH WATER MARK)



USGC 2 PETROCHEMICAL PROJECT
Chevron Phillips Chemical Company LLC
BARGE SLIP

EXHIBIT B.5	JACOBS
PROJECT No. 58FFHXXX	
DATE: 11/20/2019	



LOCALITY MAP
N.T.S.

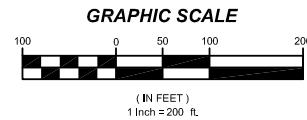


METHOD OF CONSTRUCTION:

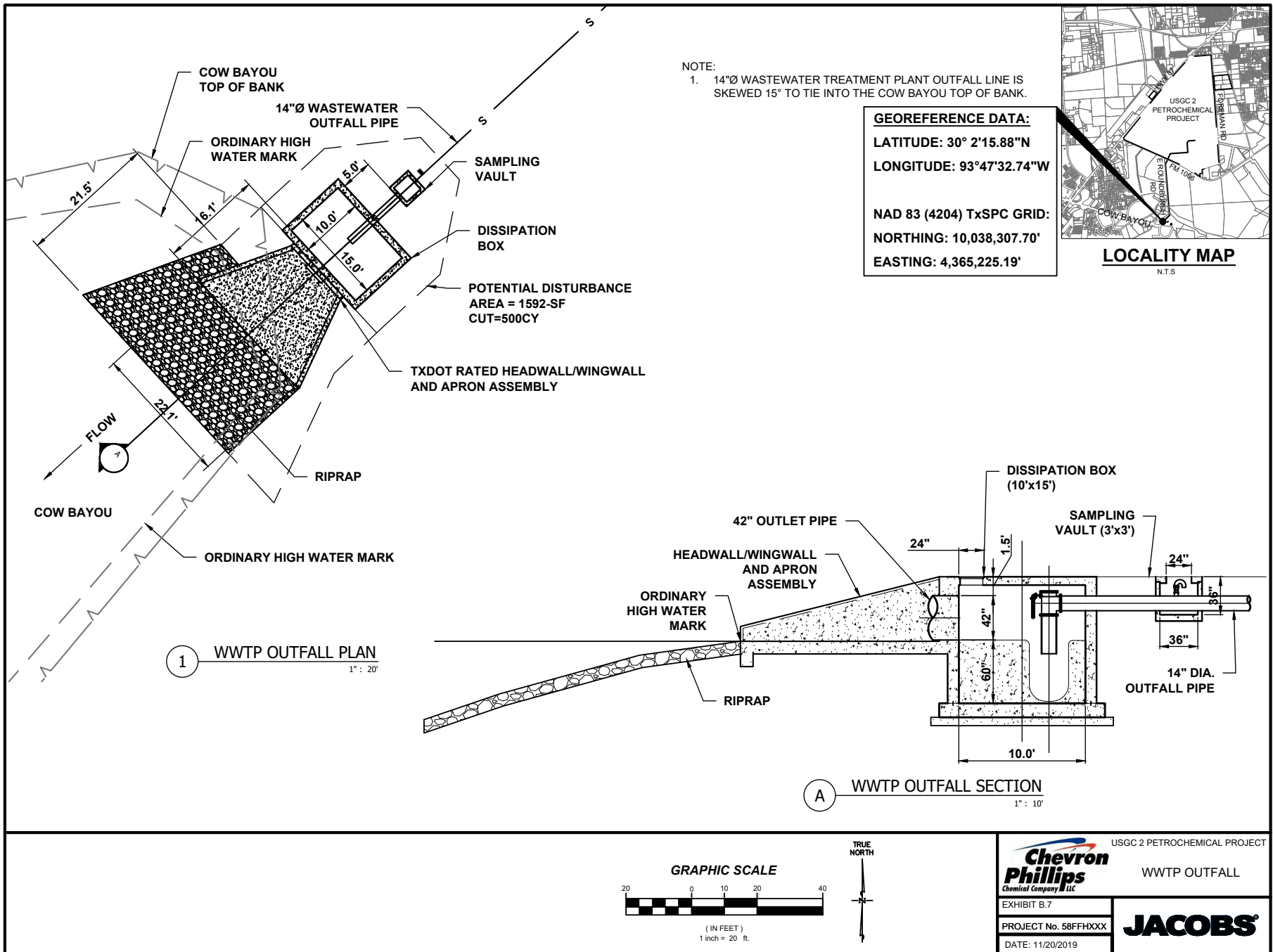
1. INITIAL DREDGING (NEW WORK):
 - 1.1. OFFSHORE DREDGING HAS BEEN DESIGNED TO A DEPTH OF APPROXIMATELY 10-FEET BELOW THE LOWEST OBSERVED TIDE OF ELEVATION -2.89' NAVD88 WITHIN THE AREA OF THE BARGE TURNING MOVEMENT.
 - 1.2. THE OVERALL DREDGE DEPTH INCLUDES APPROXIMATELY 2-FEET OF OVERCUT.
 - 1.3. APPROXIMATELY 8-FEET OF MATERIAL MUST BE DREDGED BELOW THE EXISTING MUD LINE WITHIN THE BARGE TURNING MOVEMENT AREA TO MEET THE TARGET DEPTH.
 - 1.4. FROM THE BOUNDARIES OF THE BARGE TURNING MOVEMENT AREA, A 3H:1V SIDE SLOPES WILL BE EXCAVATED TO NATURAL GRADE.
2. ONSHORE EXCAVATION:
 - 2.1. PRIOR TO COMMENCING OFFSHORE DREDGING, THE SHEET PILES WILL BE INSTALLED USING VIBRATORY METHODS AND THE ASSOCIATED TIEBACK WALL WILL BE CONSTRUCTED.
 - 2.2. AN ONSHORE EXCAVATOR UTILIZING TIMBER MATS WILL BE USED TO EXCAVATE AS MUCH DRY MATERIAL AS POSSIBLE BETWEEN THE SHEET PILE AND THE SHORELINE AND LOAD THE MATERIAL DIRECTLY INTO DUMP TRUCKS.
 - 2.3. A SECTION OF SHORELINE, OR "PLUG", WILL BE LEFT IN PLACE AT THE ENTRANCE TO THE BARGE SLIP TO PREVENT SURFACE WATER FROM COW BAYOU FROM FLOODING THE BARGE SLIP UNTIL ONSHORE EXCAVATION ACTIVITIES ARE COMPLETE.
 - 2.4. WET MATERIAL EXCAVATED FROM THE ONSHORE AREA WILL BE PLACED IN A BERMED DECANTING AREA.
3. MECHANICAL DREDGING METHODS WILL BE USED TO EXCAVATE THE SUBMERGED AREA, EXCAVATES IN-SITU SEDIMENTS WITH A GRAB OR BUCKET FROM LAND OR WATER-BASED STRUCTURE (BARGE).
4. DRY MATERIAL WILL BE EXCAVATED FROM THE ONSHORE BARGE SLIP AREA, PLACED DIRECTLY INTO DUMP TRUCKS AND HAULED TO THE DREDGED MATERIAL PLACEMENT AREA.
5. WET MATERIAL WILL BE DECANTED IN THE ONSHORE DECANTING AREA OR ON-BARGE, TRANSFERRED TO DUMP TRUCKS WITH A BACKHOE, AND THEN HAULED TO THE BERMED DREDGED MATERIAL PLACEMENT AREA ON THE MAIN SITE OR DISPOSED OF AT AN AUTHORIZED WASTE FACILITY.
6. MAINTENANCE DREDGING IS NOT ANTICIPATED DURING THE TIME PERIOD BETWEEN ESTIMATED COMPLETION OF BARGE SLIP CONSTRUCTION AND OPERATIONAL STARTUP OF THE USGC II PROJECT.
7. FINAL STABILIZATION:
 - 7.1. DREDGED MATERIAL WILL BE TILLED WITH OTHER MATERIALS (NATIVE SOILS OR IMPORTED FILL ON THE MAIN SITE) TO MAKE IT SUITABLE FOR USE AS ENGINEERED FILL MATERIAL AS APPLICABLE. MATERIAL WILL BE PLACED AND COMPACTED TO MEET PROJECT SPECIFICATIONS. STORMWATER CONTROLS WILL BE UTILIZED UNTIL FINAL STABILIZATION HAS BEEN ACHIEVED.

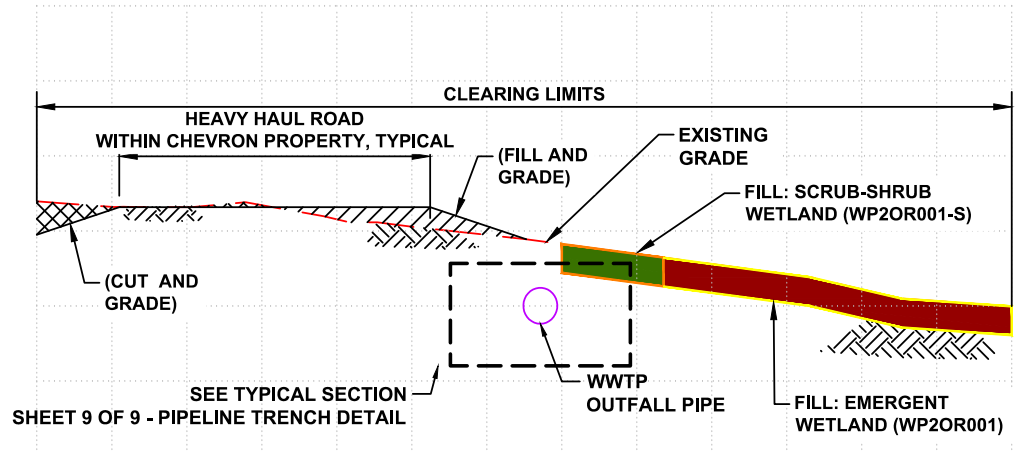
- NOTE:**
1. AERIAL EXTENTS OF THE PROPOSED DREDGE AREA ARE OUTSIDE OF THE FEDERAL NAVIGATIONAL CHANNEL.
 2. DREDGE DESIGN RECEIVED FROM BMZ, DATED 11/12/2019 DRAWING NO. 60-CVDSK-00066 (COW BAYOU DREDGE) HORIZONTAL DATUM: TX SC 4204 NAD 83 (96) US FEET, VERTICAL DATUM: NAVD 88.
 3. TIDAL DATA WAS SOURCED FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) TIDAL STATION AT THE RAINBOW BRIDGE (STATION ID 8770520).
 4. CONSTRUCTION METHODOLOGY ACCORDING TO INFORMATION RECEIVED FROM BMZ, DATED 11/12/2019 DREDGED MATERIAL MANAGEMENT PLAN (DMMP) DOCUMENT NO. 60-EVPL-00001

LEGEND:
— OHWM (ORDINARY HIGH WATER MARK)

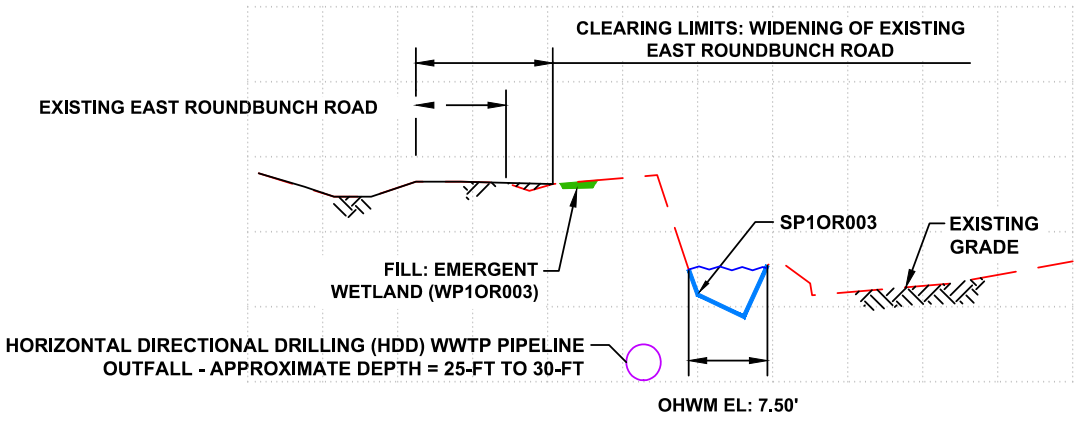


USGC 2 PETROCHEMICAL PROJECT	
Chevron Phillips Chemical Company LLC	
EXHIBIT B.6	
PROJECT No. 58FFHXXX	
DATE: 11/20/2019	
JACOBS	



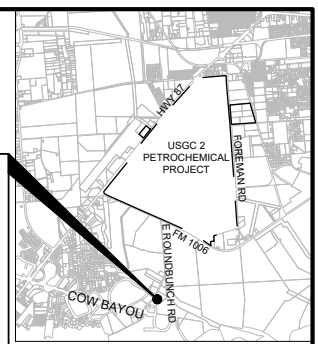


(A) TYPICAL HEAVY HAUL ROAD WETLAND SECTION
N.T.S.



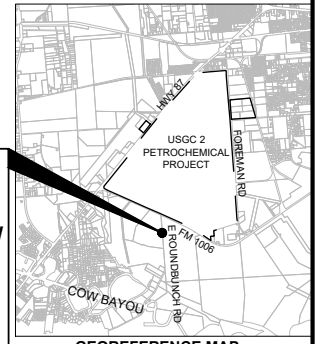
(B) TYPICAL HEAVY HAUL ROAD WETLAND AND STREAM SECTION
N.T.S.

GEOREFERENCE DATA:
 LATITUDE: 30° 2'22.25"N
 LONGITUDE: 93°47'26.46"W
 NAD 83 (4204) TxSPC GRID:
 NORTHING: 13,962,229.91'
 EASTING: 3,616,237.56'



GEOREFERENCE MAP
N.T.S.

GEOREFERENCE DATA:
 LATITUDE: 30° 3'12.32"N
 LONGITUDE: 93°47'26.14"W
 NAD 83 (4204) TxSPC GRID:
 NORTHING: 13,967,284.18'
 EASTING: 3,616,040.42'

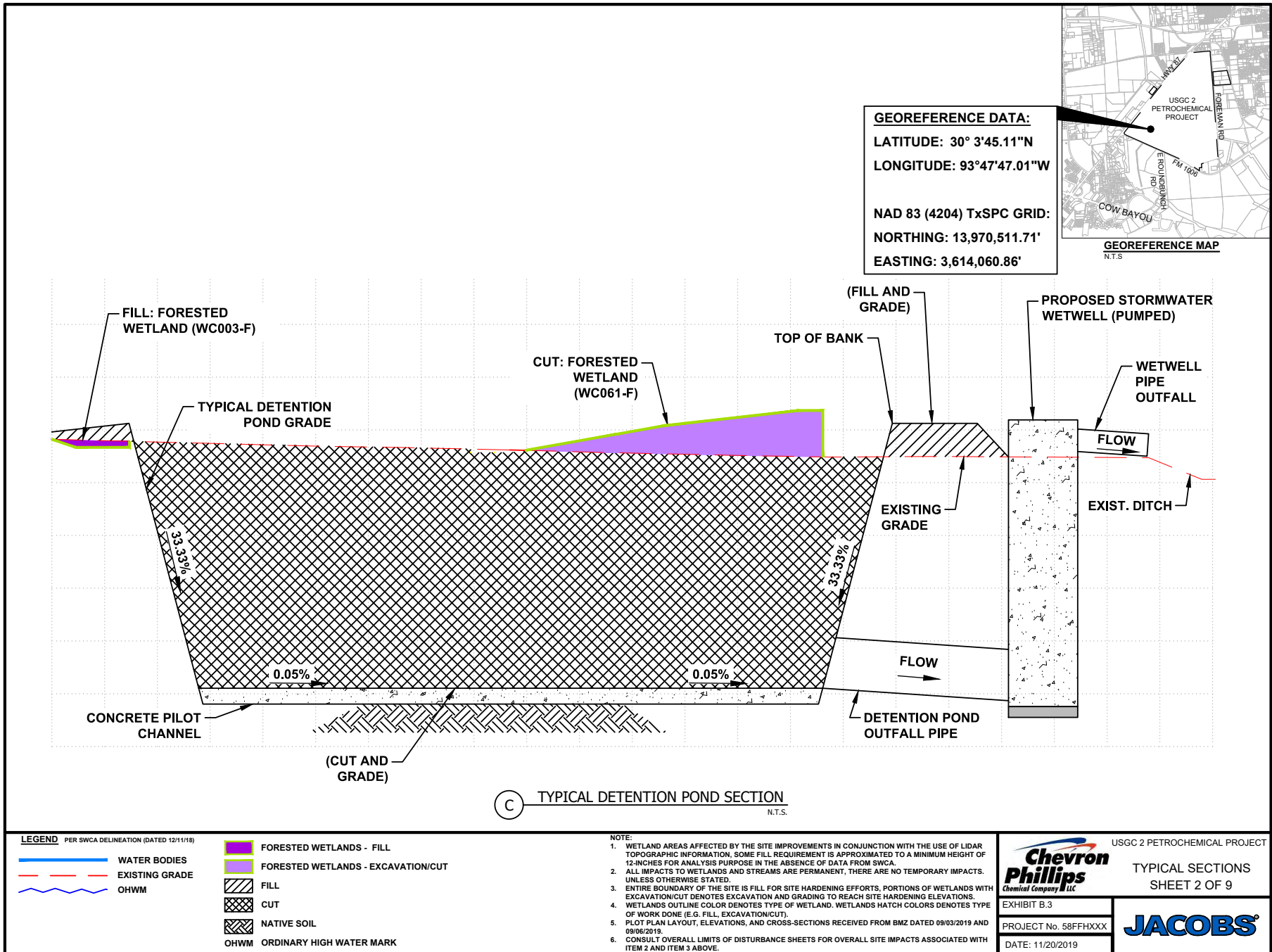


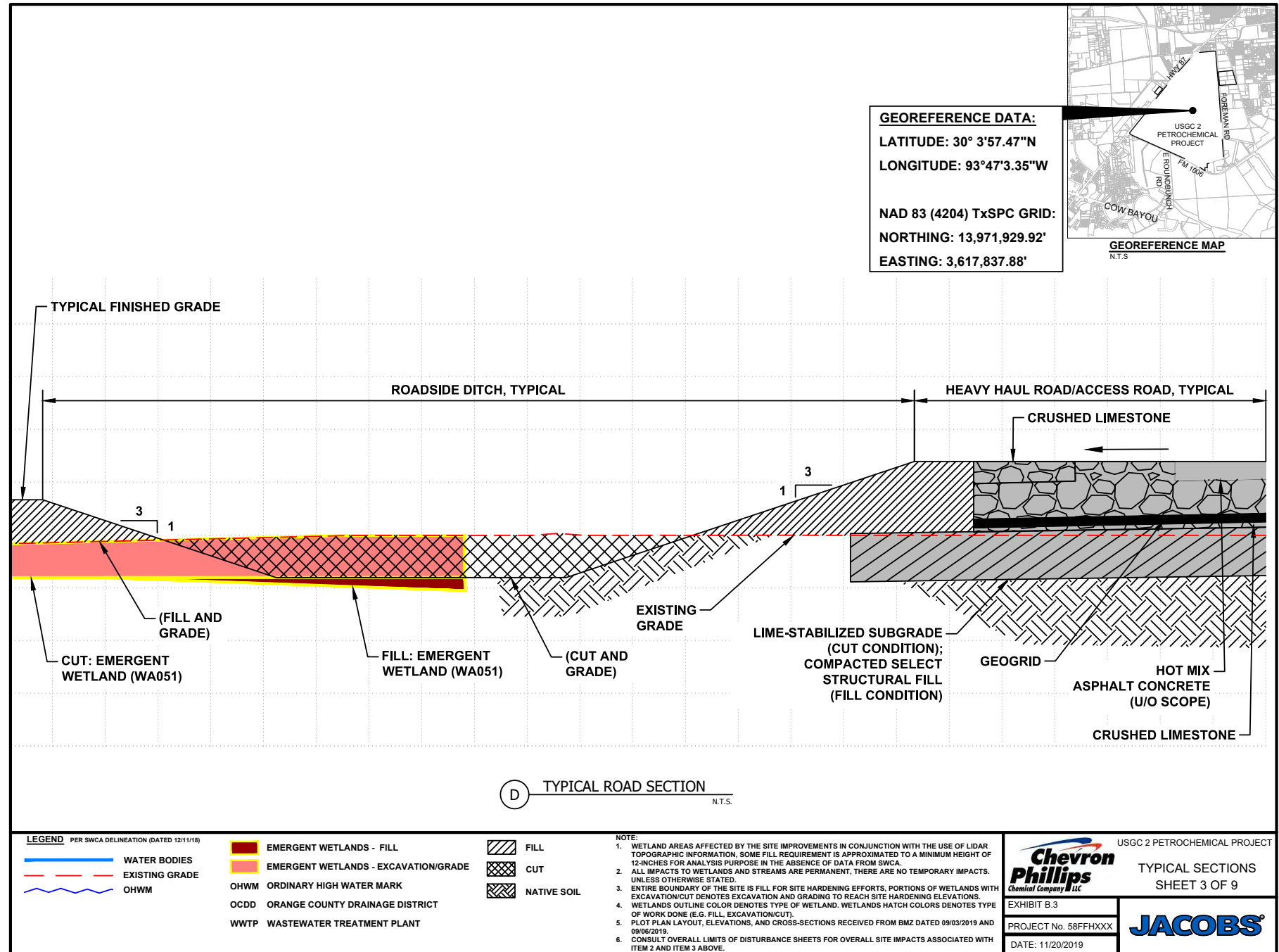
GEOREFERENCE MAP
N.T.S.

LEGEND PER SWCA DELINEATION (DATED 12/11/18)			
	WATER BODIES		EMERGENT WETLANDS - FILL
	EXISTING GRADE		SCRUB-SHRUB WETLANDS - FILL
	OHWM		FILL
OHWM	ORDINARY HIGH WATER MARK		CUT
WWTW	WASTE WATER TREATMENT PLANT		NATIVE SOIL

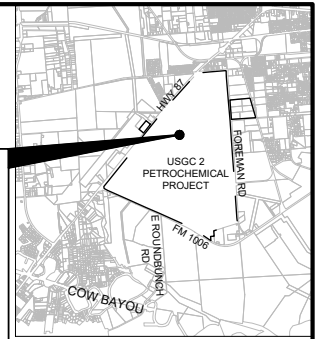
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USGC 2 PETROCHEMICAL PROJECT	
	TYPICAL SECTIONS SHEET 1 OF 9
EXHIBIT B.3	
PROJECT No. 58FFHXXX	
DATE: 11/20/2019	

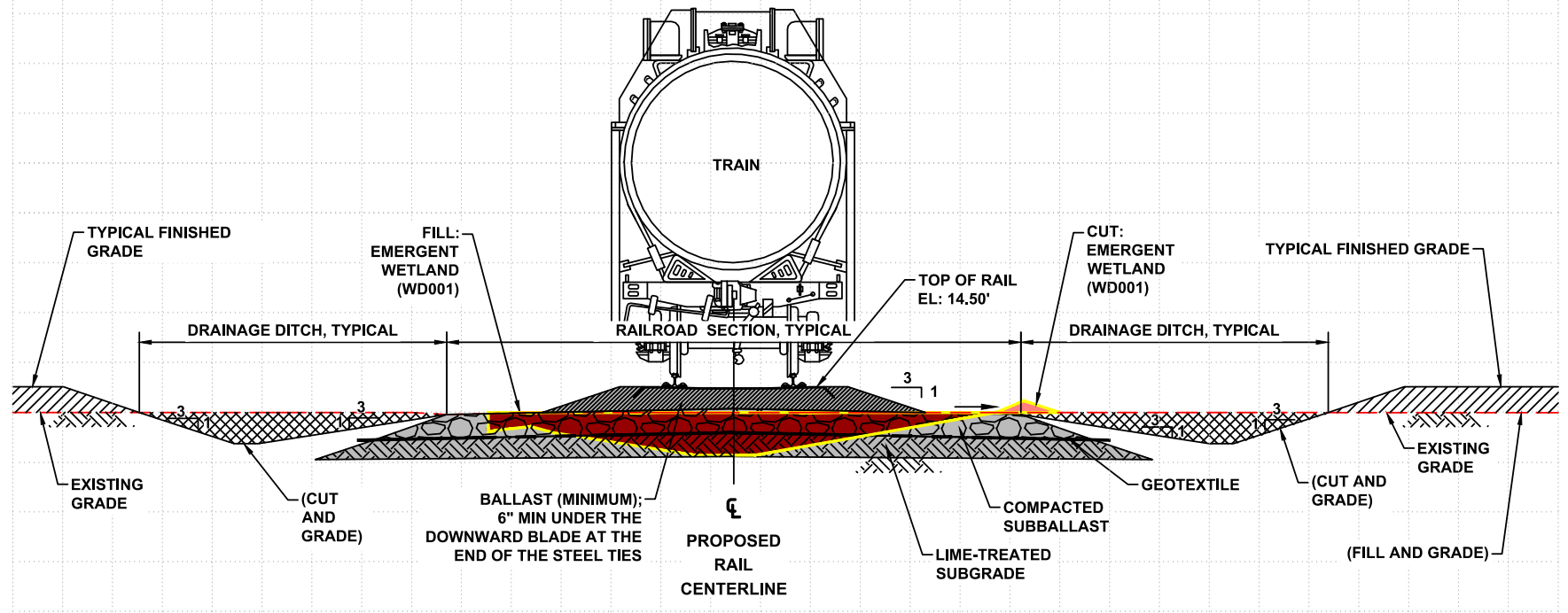




GEOREFERENCE DATA:
LATITUDE: 30° 4'17.50"N
LONGITUDE: 93°47'14.08"W
NAD 83 (4204) TxSPC GRID:
NORTHING: 13,973,909.32'
EASTING: 3,616,805.82'



GEOREFERENCE MAP
N.T.S.



E TYPICAL RAIL SECTION
N.T.S.

LEGEND PER SWCA DELINEATION (DATED 12/11/18)

 WATER BODIES
 EXISTING GRADE
 OHWM

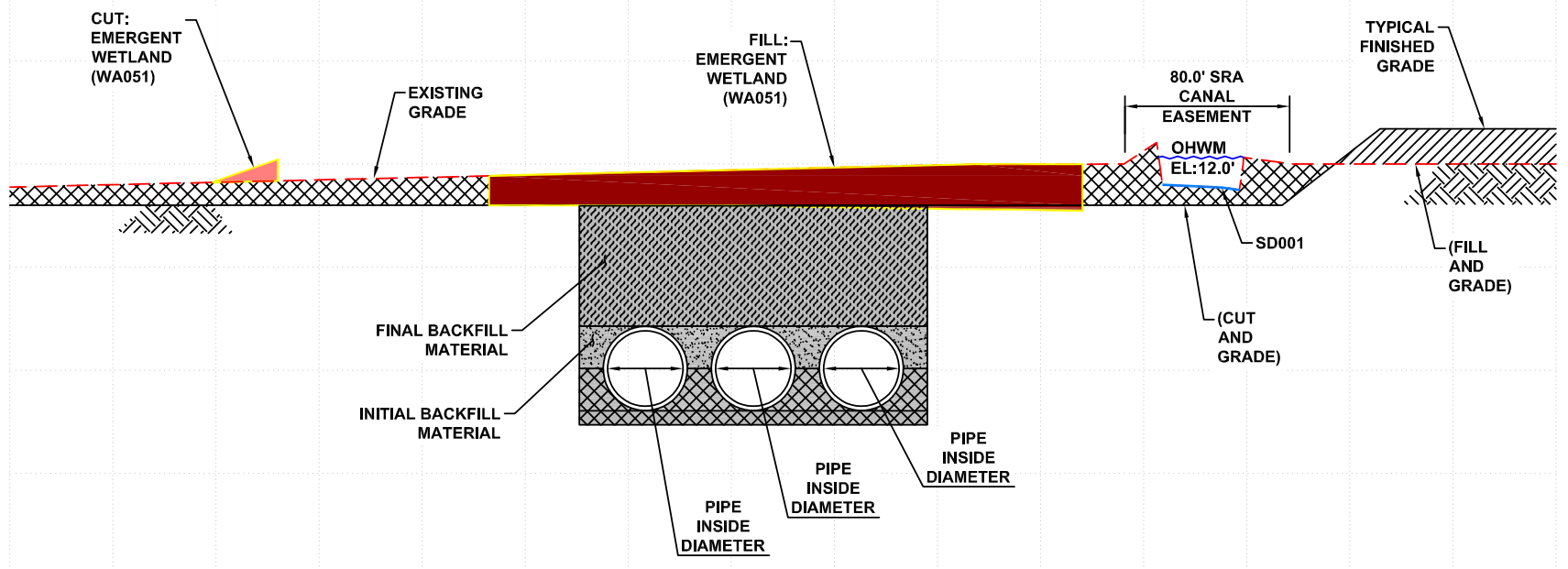
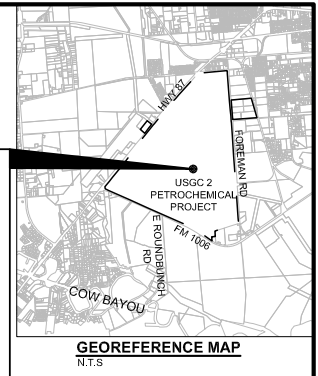
EMERGENT WETLANDS - FILL
 EMERGENT WETLANDS - EXCAVATION/CUT
 OHWM ORDINARY HIGH WATER MARK

FILL
 CUT
 NATIVE SOIL

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USGC 2 PETROCHEMICAL PROJECT	
	TYPICAL SECTIONS SHEET 4 OF 9
EXHIBIT B.3	
PROJECT No. 58FFHXXX	
DATE: 11/20/2019	

GEOREFERENCE DATA:
 LATITUDE: 30° 3'51.64"N
 LONGITUDE: 93°47'2.90"W
 NAD 83 (4204) TxSPC GRID:
 NORTHING: 13,971,343.32'
 EASTING: 3,617,903.64'



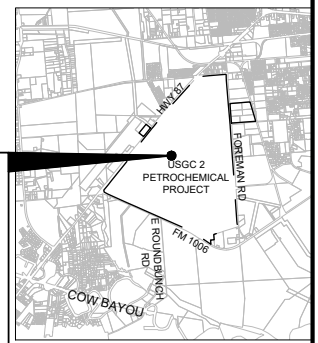
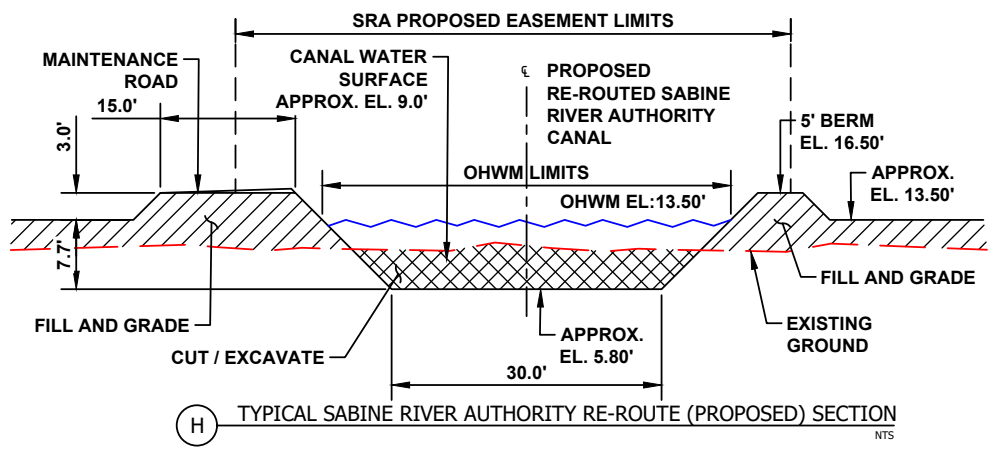
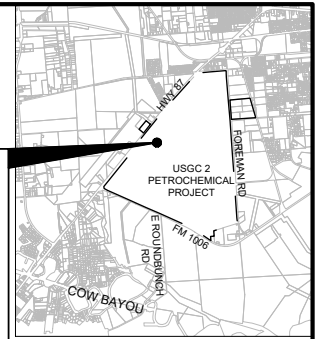
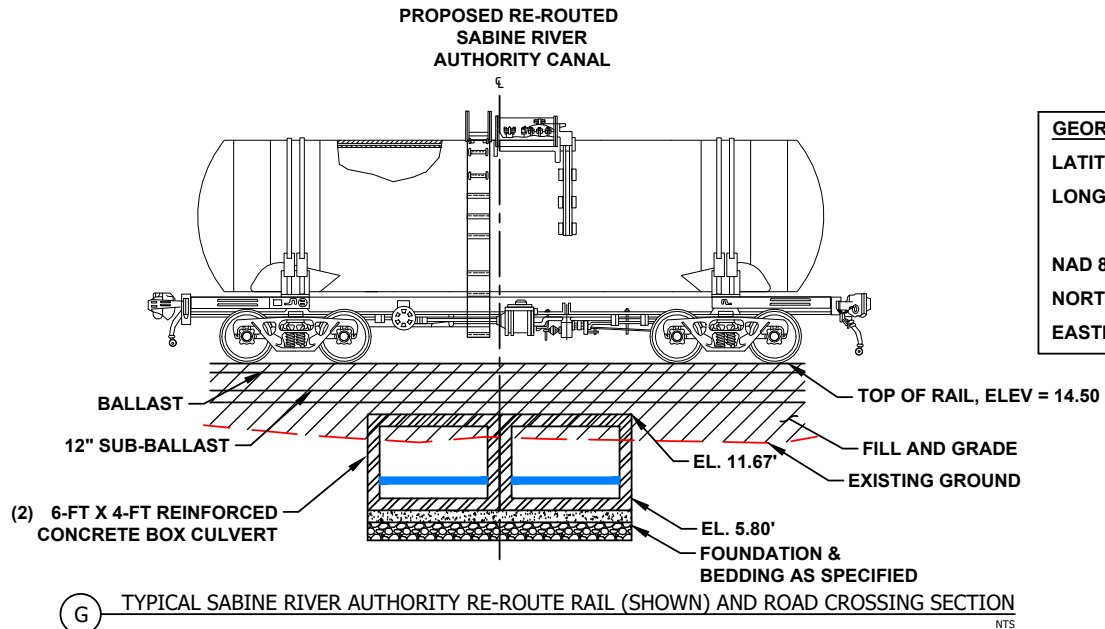
(F) TYPICAL CULVERT SECTION N.T.S.

LEGEND PER SWCA DELINEATION (DATED 12/11/18)	
	WATER BODIES
	EXISTING GRADE
	OHWM
	EMERGENT WETLANDS - FILL
	EMERGENT WETLANDS - EXCAVATION/CUT
	ORDINARY HIGH WATER MARK
	SABINE RIVER AUTHORITY
	FILL
	CUT
	NATIVE SOIL

NOTE:

1. WETLAND AREAS AFFECTED BY THE SITE IMPROVEMENTS IN CONJUNCTION WITH THE USE OF LIDAR TOPOGRAPHIC INFORMATION, SOME FILL REQUIREMENTS IS APPROXIMATED TO A MINIMUM HEIGHT OF 12-INCHES FOR ANALYSIS PURPOSE IN THE ABSENCE OF DATA FROM SWCA.
2. ALL IMPACTS TO WETLANDS AND STREAMS ARE PERMANENT, THERE ARE NO TEMPORARY IMPACTS, UNLESS OTHERWISE STATED.
3. ENTIRE BOUNDARY OF THE SITE IS FILL FOR SITE HARDENING EFFORTS, PORTIONS OF WETLANDS WITH EXCAVATION/CUT DENOTES EXCAVATION AND GRADING TO REACH SITE HARDENING ELEVATIONS.
4. WETLANDS OUTLINE COLOR DENOTES TYPE OF WETLAND, WETLANDS HATCH COLORS DENOTES TYPE OF WORK DONE (E.G. FILL, EXCAVATION/CUT).
5. PLOT PLAN LAYOUT, ELEVATIONS, AND CROSS-SECTIONS RECEIVED FROM BMZ DATED 09/03/2019 AND 09/06/2019.
6. CONSULT OVERALL LIMITS OF DISTURBANCE SHEETS FOR OVERALL SITE IMPACTS ASSOCIATED WITH ITEM 2 AND ITEM 3 ABOVE.

	USGC 2 PETROCHEMICAL PROJECT
	TYPICAL SECTIONS SHEET 5 OF 9
EXHIBIT B.3	
PROJECT No. 58FFHXXX	
DATE: 11/20/2019	



GEOREFERENCE DATA:
 LATITUDE: 30° 4'5.40"N
 LONGITUDE: 93°47'25.32"W
 NAD 83 (4204) TxSPC GRID:
 NORTHING: 13,972,644.20'
 EASTING: 3,615,873.63'

LEGEND PER SWCA DELINEATION (DATED 12/11/18)

	WATER BODIES		FILL
	EXISTING GRADE		EXCAVATION/CUT
	OHWM		OHWM ORDINARY HIGH WATER MARK
	SRA		SABINE RIVER AUTHORITY

USGC 2 PETROCHEMICAL PROJECT

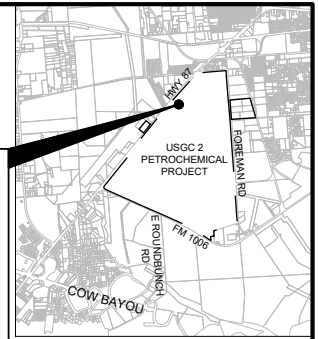
Chevron Phillips
 Chemical Company LLC

TYPICAL SECTIONS
 SHEET 6 OF 9

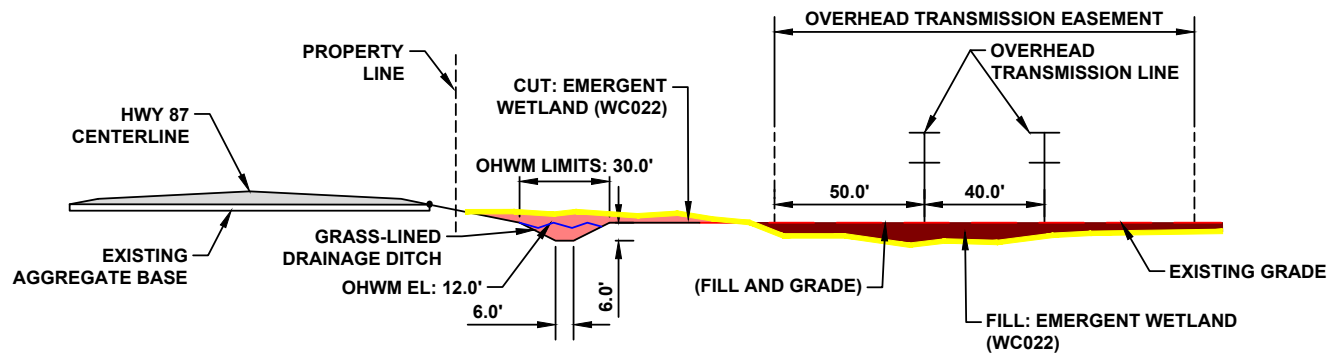
EXHIBIT B.3
 PROJECT No. 58FFHXXX
 DATE: 11/20/2019

JACOBS

GEOREFERENCE DATA:
LATITUDE: 30° 4'40.05"N
LONGITUDE: 93°47'10.95"W
NAD 83 (4204) TxSPC GRID:
NORTHING: 13,976,197.32'
EASTING: 3,616,979.04'



GEOREFERENCE MAP
N.T.S



I TYPICAL SECTION - ORANGE COUNTY DRAINAGE DISTRICT RE-ROUTED DRAINAGE DITCH FOR OFF-SITE FLOWS
N.T.S

LEGEND PER SWCA DELINEATION (DATED 12/11/18)	
	WATER BODIES
	EXISTING GRADE
	OHWM
	FILL
	EXCAVATION/CUT
	EMERGENT WETLANDS - FILL
	EMERGENT WETLANDS - EXCAVATION/CUT
	EXISTING ROAD
	OHWM ORDINARY HIGH WATER MARK

NOTE:

1. WETLAND AREAS AFFECTED BY THE SITE IMPROVEMENTS IN CONJUNCTION WITH THE USE OF LIDAR TOPOGRAPHIC INFORMATION, SOME FILL REQUIREMENT IS APPROXIMATED TO A MINIMUM HEIGHT OF 12-INCHES FOR ANALYSIS PURPOSE IN THE ABSENCE OF DATA FROM SWCA.
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5. PLOT PLAN LAYOUT, ELEVATIONS, AND CROSS-SECTIONS RECEIVED FROM BMZ DATED 09/03/2019 AND 09/06/2019.
6. CONSULT OVERALL LIMITS OF DISTURBANCE SHEETS FOR OVERALL SITE IMPACTS ASSOCIATED WITH ITEM 2 AND ITEM 3 ABOVE.

USGC 2 PETROCHEMICAL PROJECT	
TYPICAL SECTIONS SHEET 7 OF 9	
EXHIBIT B.3	
PROJECT No. 58FFHXXX	
DATE: 11/20/2019	

