



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, NEW ORLEANS DISTRICT
7400 LEAKE AVENUE
NEW ORLEANS LA 70118-3651

July 1, 2024

Regulatory Division
Central Evaluation Branch

Project Manager:
James W. Little, Jr.
(504) 862-1879
James.little@usace.army.mil

Application #: MVN-2023-1228-WII

PUBLIC NOTICE

Interested parties are hereby notified that a permit application has been received by the U.S. Army Corps of Engineers (USACE), New Orleans District (CEMVN) pursuant to: [] 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), and/or [] Section 14 of the Rivers and Harbors Act of 1899 (33 U.S.C. Section 408)

CONSTRUCT 6 & 8 INCH PIPELINES AND FIBER OPTIC CABLES FOR PROJECT JUPITER IN ST. JAMES AND ASCENSION PARISHES

NAME OF APPLICANT: Occidental Chemical Corporation, LLC (OxyChem), c/o Project Consulting Services, Inc., 1347 North Causeway Blvd, Suite 201, Mandeville, La 70471.

LOCATION OF WORK: The project is to take place between the OxyChem Convent and Geismar Facilities. The lines will exit OxyChem's Convent Plant in St. James Parish, 30.0594, -90.8283. The co-located lines will traverse northwesterly 16.18 miles to a point approximately 0.75 miles southeast of the Geismar Facility, 30.1749, -90.9710; where the lines will diverge. The 6-Inch line and fiber optic cables will terminate at a POE, 30.1853, -90.9769, located within OxyChem's Geismar Plant in Ascension Parish. The 8-Inch line will terminate at a POE, 30.1856, -90.9857 also located within the Geismar Plant, as shown on the attached drawings. The project area is located within the Lake Maurepas sub-basin (HUC 08070204).

CHARACTER OF WORK: The applicant has requested Department of Army authorization to construct, install, maintain and operate new pipelines in order to transport products, chlorine and ethylene dichloride, between the OxyChem Convent and Geismar Facilities. Specifically, the applicant has requested authorization to clear, grade, excavate, and temporary place fill to construct approximately 17.01 miles of 6-Inch chlorine pipeline and fiber optic cables, and approximately 17.36 miles of 8-Inch pipeline, in St. James and Ascension parishes. The proposed project will require approximately 113,254 cubic yards of excavation and temporary fill material to be placed in wetlands. Following

construction, areas temporarily impacted by the project will be restored to pre-construction grade to the maximum extent practicable and allowed to revegetate. Project implementation would affect approximately 21.11 acres of PEM (herbaceous) wetlands, 1.70 acres of PSS (scrub-shrub) wetlands, and 37.72 acres of PFO1 (bottomland hardwood) wetlands, and 22.36 acres of PFO2 (swamp) wetlands. There will be a permanent conversion of approximately 0.19 acres of PSS (scrub-shrub) wetlands, 14.81 acres of PFO1 (bottomland hardwood) wetlands, and 8.90 acres of PFO2 (swamp) wetlands. Finally, as proposed the project will not result in any permanent loss of wetlands.

MITIGATION: As compensation for unavoidable wetland impacts, the applicant has proposed to offset those impacts by providing compensatory mitigation at Corps approved mitigation banks within the watershed of impact.

The comment period for the requested Department of Army Permit will close **20 days** from the date of this 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 request, and must be submitted so as to be received before or by the last day of the comment period. Letters and/or comments concerning the subject permit application must reference the Applicant's Name and the Permit Application Number and can be preferably emailed to the CEMVN's project manager listed above or forwarded to the CEMVN at the address above, **ATTENTION: REGULATORY DIVISION, RGC, James W. Little, Jr.** Individuals or parties may also request an extension of time in which to comment on the proposed work by mail or preferably by emailing the specified project manager listed above. Any request for an extension of time to comment 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 Branch Chief will review the request and the requester will be promptly notified of the decision to grant or deny the request. If granted, the time extension will be continuous and inclusive of the initial comment period and will not exceed a total of 30 calendar days. This public notice is also available for review online at <https://go.usa.gov/xennJ>

USACE 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.

CEMVN is soliciting comments from area residents, 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 CEMVN 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 communities with environmental justice concerns, 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. Further, all factors that may be relevant to the proposal will be considered, including the potential cumulative effects associated with the proposed project.

The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistorical, historical sites, or data. As deemed necessary, copies of this public notice will be sent to the State Archeologist, State Historic Preservation Officer, and federally listed tribes regarding potential impacts to cultural resources.

Our initial finding is that the proposed work would have no effect on any species listed as endangered by the U.S. Department of Commerce, nor affect any habitat designated as critical to the survival and recovery of any such species.

Based on the Information Planning and Consultation (IPaC) tool for Endangered Species in Louisiana, as signed on January 27, 2020, between the CEMVN and the U.S. Fish and Wildlife Service, Ecological Services Office (USFWS), it has been determined that the proposed project would have no effect to any species listed as threatened or endangered by the USFWS, nor affect any habitat designated as critical to the survival and recovery of any such species.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The applicant's proposal may result in the destruction, alteration, and/or disturbance of [X] 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 LA Department of Environmental Quality before a Department of the Army permit is issued.

Any person may request, (preferably by email to the project manager, or 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 (Louisiana Coastal Zone Application P20220033). 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 Louisiana Department of Energy and Natural Resources.

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

John M. Herman
Chief, Central Evaluation Branch
Regulatory Division

Enclosures

P.O.E.
X= 3390642.6759
Y= 613186.7050
LAT: N30° 11' 08.46"
LON: W90° 59' 08.86"

PROPOSED 8" JUPITER PIPELINE
6,211' – 1.18 MILES

P.O.E.
X= 3393424.9206
Y= 613090.9660
LAT: N30° 11' 07.42"
LON: W90° 58' 37.16"

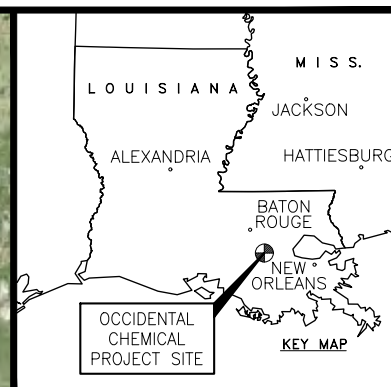
PROPOSED 6" JUPITER PIPELINE
4,387' – 0.83 MILES

COASTAL ZONE BOUNDARY
X= 3424958.31'
Y= 589598.03'
LAT: N30° 07' 13.76"
LON: W90° 52' 38.92"

PROPOSED 8" & 6" JUPITER PIPELINE
TOTAL CO-LOCATE LENGTH 85,456' – 16.18 MILES
TOTAL CO-LOCATE LENGTH OUTSIDE CZ 45,079 – 8.53 MILES
TOTAL CO-LOCATE LENGTH IN CZ 40,377.00' – 7.65 MILES

COASTAL ZONE BOUNDARY

P.O.B.
X= 3440576.64'
Y= 567449.50'
LAT: N30° 03' 33.86"
LON: W90° 49' 42.19"



NOTE: THE CONTENTS OF THIS DRAWING ARE DESIGNED SPECIFICALLY FOR THE PURPOSE OF SECURING FEDERAL, STATE AND LOCAL ENVIRONMENTAL/REGULATORY AUTHORIZATIONS ONLY.

8,000' 0' 8,000'
SCALE IN FEET

GEOGRAPHIC COORDINATE SYSTEM: NAD83, LOUISIANA STATE PLANE, SOUTH ZONE, U.S. FOOT (LA83-SF-MOD).

APPLICATION BY:

OCCIDENTAL CHEMICAL CORPORATION



Date: 11-15-23
Project No.: 21161
Drawn By: NMS

Checked By: TD
Approved By:

PREPARED BY:



PROJECT CONSULTING SERVICES, INC.

3300 WEST ESPLANADE AVE., S. SUITE 500
METairie, LA 70002-7406
(504) 833-6321 Fax (504) 833-4940
www.projectconsulting.com

Revised Date: 3-26-24
Revised Approved By: DW

PROJECT JUPITER
PROPOSED 6" & 8" PIPELINES
ASCENSION AND ST. JAMES PARISHES, LA

VICINITY MAP

DWG. NO. 21161_OXY-0000

P.O.E.
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LON: W90° 59' 08.86"

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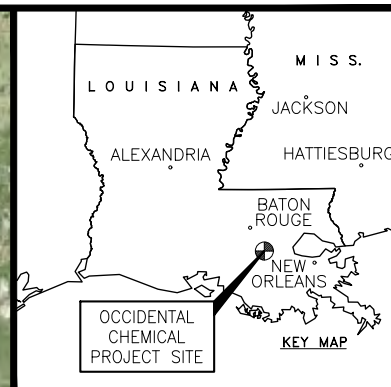
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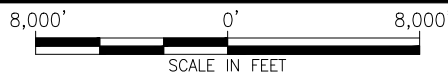
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APPLICATION BY:

OCCIDENTAL CHEMICAL CORPORATION



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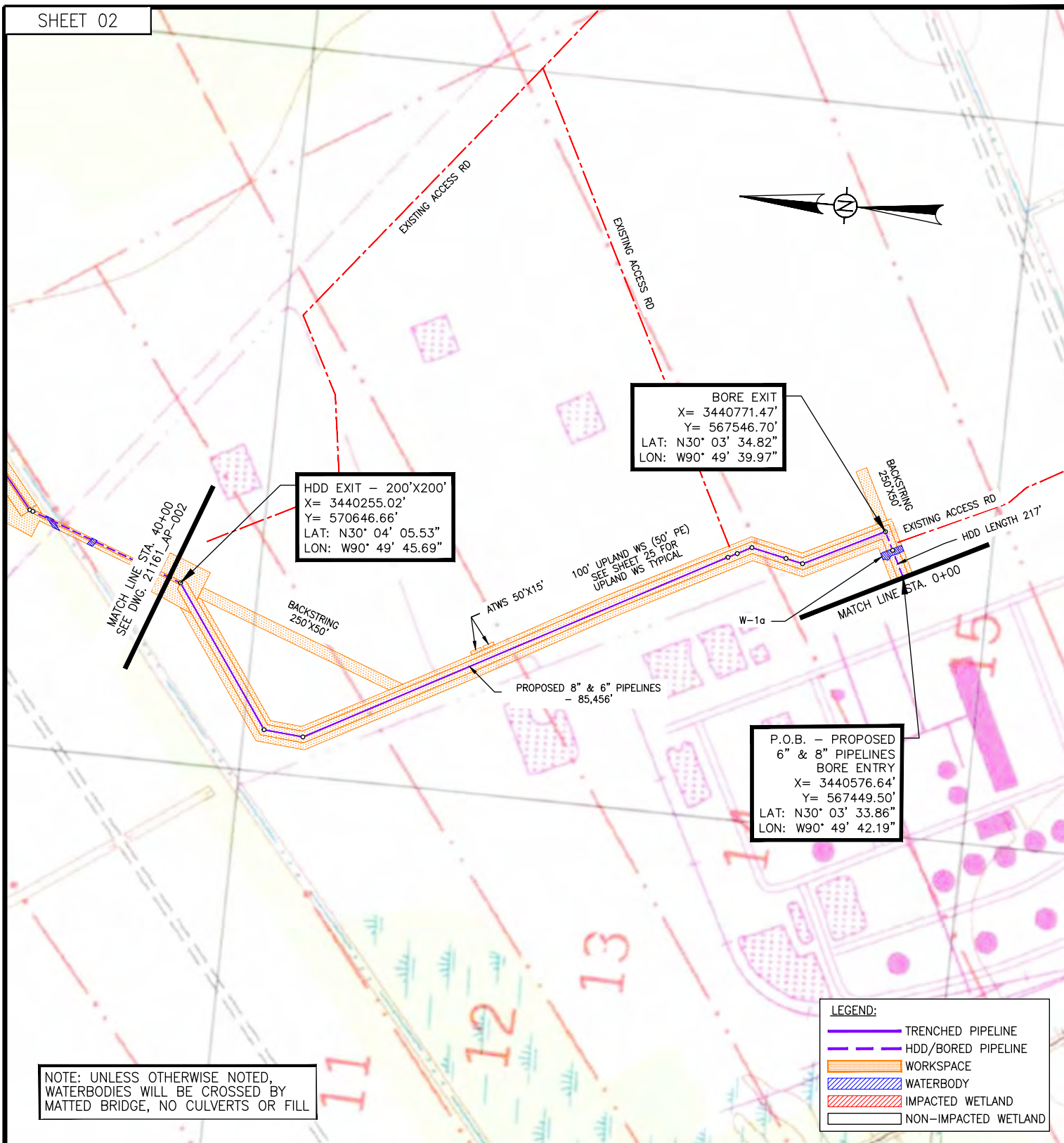
3300 WEST ESPLANADE AVE., S. SUITE 500
METairie, LA 70002-7406
(504) 833-6321 Fax (504) 833-4940
www.projectconsulting.com

Revised Date: 3-26-24
Revised Approved By: DW

PROJECT JUPITER
PROPOSED 6" & 8" PIPELINES
ASCENSION AND ST. JAMES PARISHES, LA

VICINITY MAP

DWG. NO. 21161_OXY-0000



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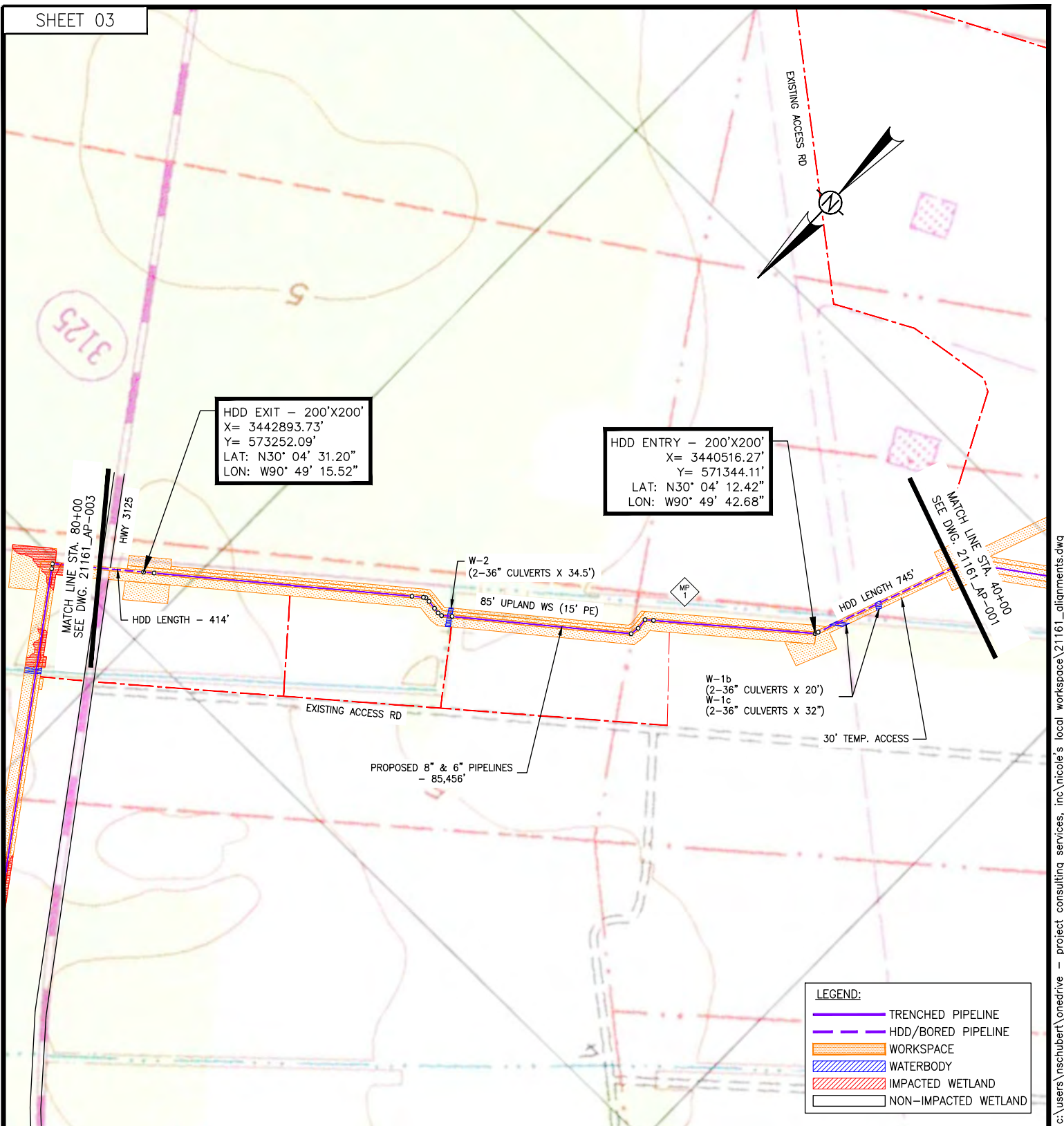
3300 WEST ESPLANADE AVE., S., SUITE 500
 METAIRIE, LA 70002-7406
 (504) 833-6321 Fax: (504) 833-4940
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Revised Date: 3-26-24
 Revised Approved By: DW

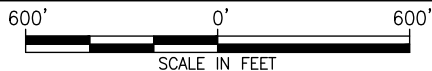
PROJECT JUPITER
 PROPOSED 6" & 8" PIPELINES
 ASCENSION AND ST. JAMES PARISHES, LA

STA. 0+00 TO STA. 40+00

DWG. NO. 21161_OXY-AP-0001



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GEOGRAPHIC COORDINATE SYSTEM: NAD83, LOUISIANA STATE PLANE, SOUTH ZONE, U.S. FOOT (LA83-SF-MOD).

APPLICATION BY:

OCCIDENTAL CHEMICAL CORPORATION



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Drawn By: NMS

Checked By: TD
Approved By:

PREPARED BY:



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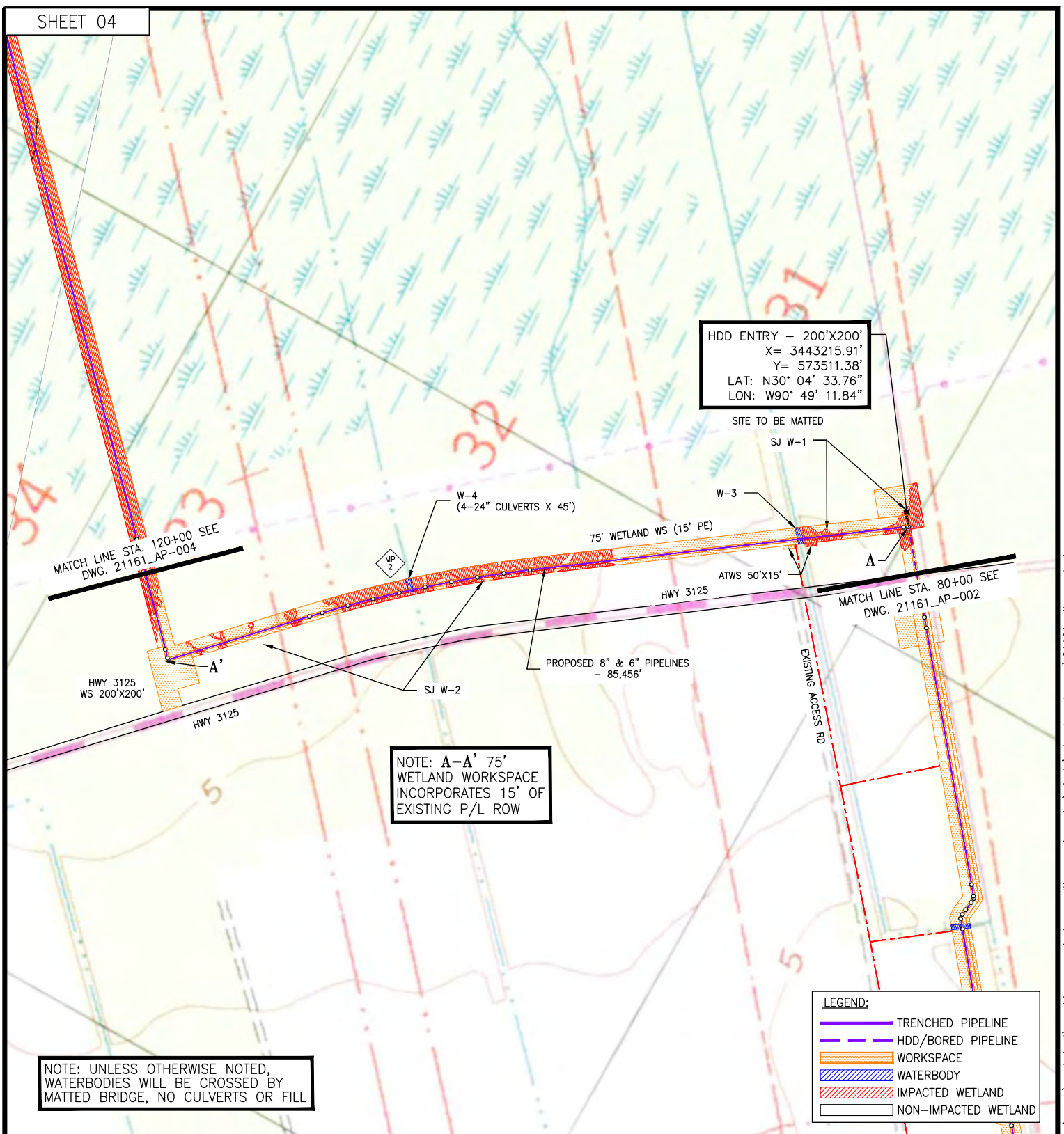
3300 WEST ESPLANADE AVE., S., SUITE 500
METAIRIE, LA 70002-7406
(504) 833-5321 Fax (504) 833-4940
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Revised Date: 3-26-24
Revised Approved By: DW

PROJECT JUPITER
PROPOSED 6" & 8" PIPELINES
ASCENSION AND ST. JAMES PARISHES, LA

STA. 40+00 TO STA. 80+00

DWG. NO. 21161_OXY-AP-0002



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600' 0' 600'
SCALE IN FEET

GEOGRAPHIC COORDINATE SYSTEM: NAD83, LOUISIANA STATE PLANE, SOUTH ZONE, U.S. FOOT (LA83-SF-MOD).

APPLICATION BY:

OCCIDENTAL CHEMICAL CORPORATION



Date: 11-15-23
Project No.: 21161
Drawn By: NMS

Checked By: TD
Approved By:

PREPARED BY:



PROJECT CONSULTING SERVICES, INC.

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METairie, LA 70002-7406
(504) 833-8321 Fax (504) 833-4940
www.projectconsulting.com

Revised Date: 3-26-24
Revised Approved By: DW

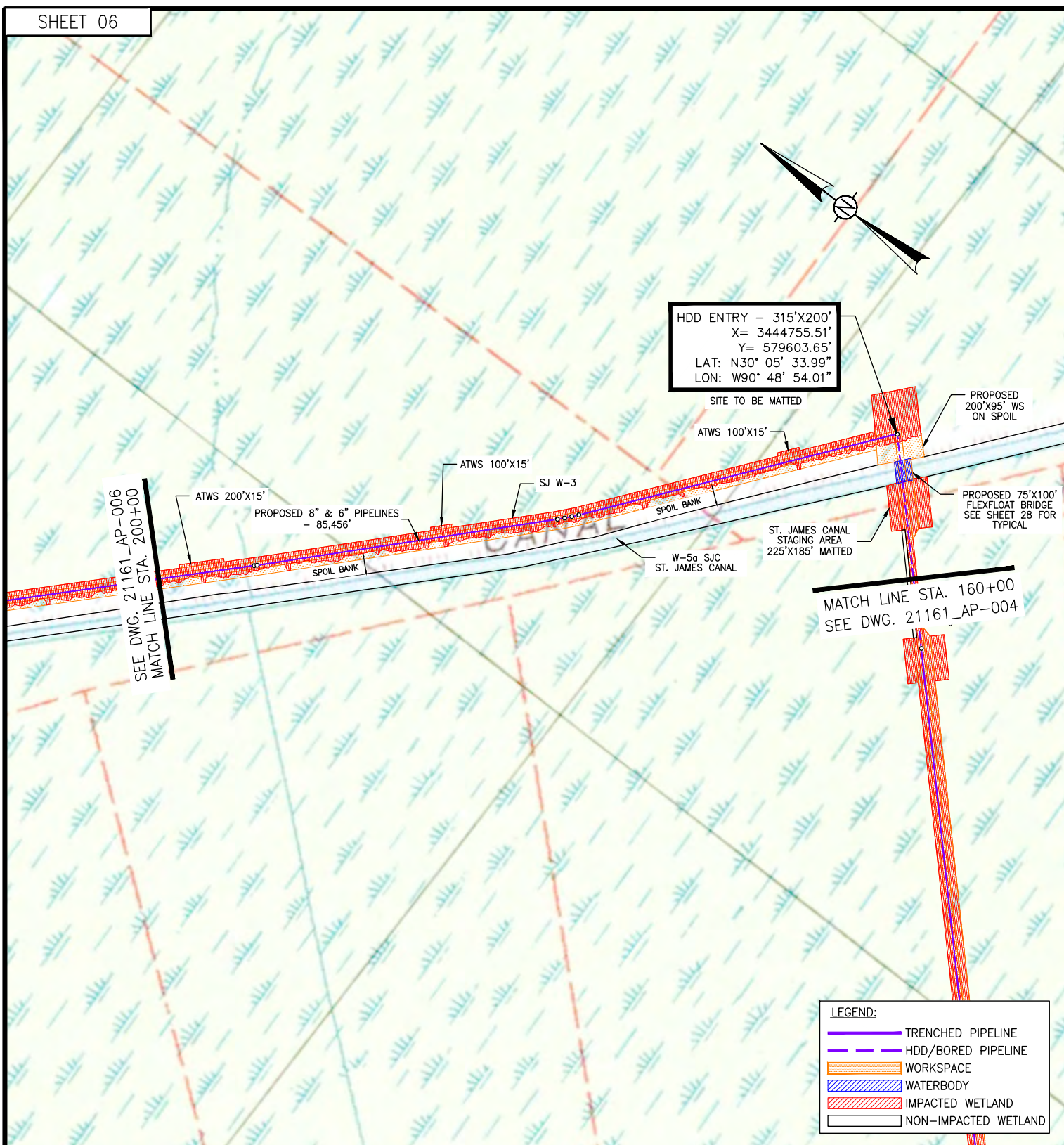
PROJECT JUPITER
PROPOSED 6" & 8" PIPELINES
ASCENSION AND ST. JAMES PARISHES, LA

STA. 80+00 TO STA. 120+00

DWG. NO. 21161_OXY-AP-0003

GEOGRAPHIC COORDINATE SYSTEM: NAD83,
LOUISIANA STATE PLANE, SOUTH ZONE, U.S.
FOOT (LA83-SF-MOD).

DWG. NO. 21161_OXY-AP-0004



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600' 0' 600'
 SCALE IN FEET

GEOGRAPHIC COORDINATE SYSTEM: NAD83, LOUISIANA STATE PLANE, SOUTH ZONE, U.S. FOOT (LA83-SF-MOD).

APPLICATION BY:

OCCIDENTAL CHEMICAL CORPORATION



Date: 11-15-23
 Project No.: 21161
 Drawn By: NMS

Checked By: TD
 Approved By:

PREPARED BY:

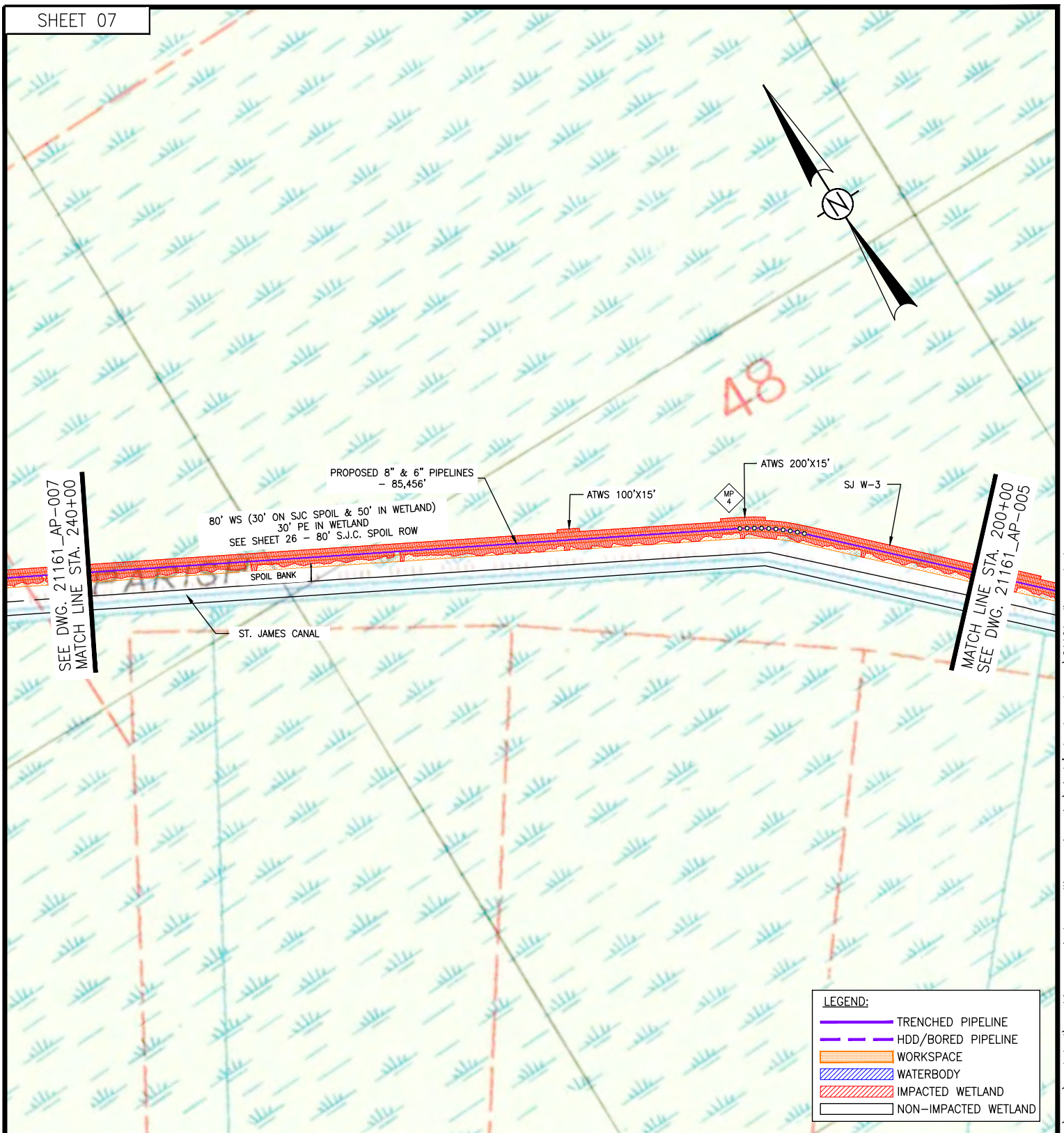


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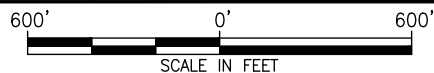
Revised Date: 4-25-24
 Revised Approved By: DW

PROJECT JUPITER
 PROPOSED 6" & 8" PIPELINES
 ASCENSION AND ST. JAMES PARISHES, LA
 STA. 160+00 TO STA. 200+00

DWG. NO. 21161_OXY-AP-0005



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GEOGRAPHIC COORDINATE SYSTEM: NAD83, LOUISIANA STATE PLANE, SOUTH ZONE, U.S. FOOT (LA83-SF-MOD).

LEGEND:	
	TRENCHED PIPELINE
	HDD/BORED PIPELINE
	WORKSPACE
	WATERBODY
	IMPACTED WETLAND
	NON-IMPACTED WETLAND

APPLICATION BY:

OCCIDENTAL CHEMICAL CORPORATION



Date: 11-15-23
Project No.: 21161
Drawn By: NMS

Checked By: TD
Approved By:

PREPARED BY:

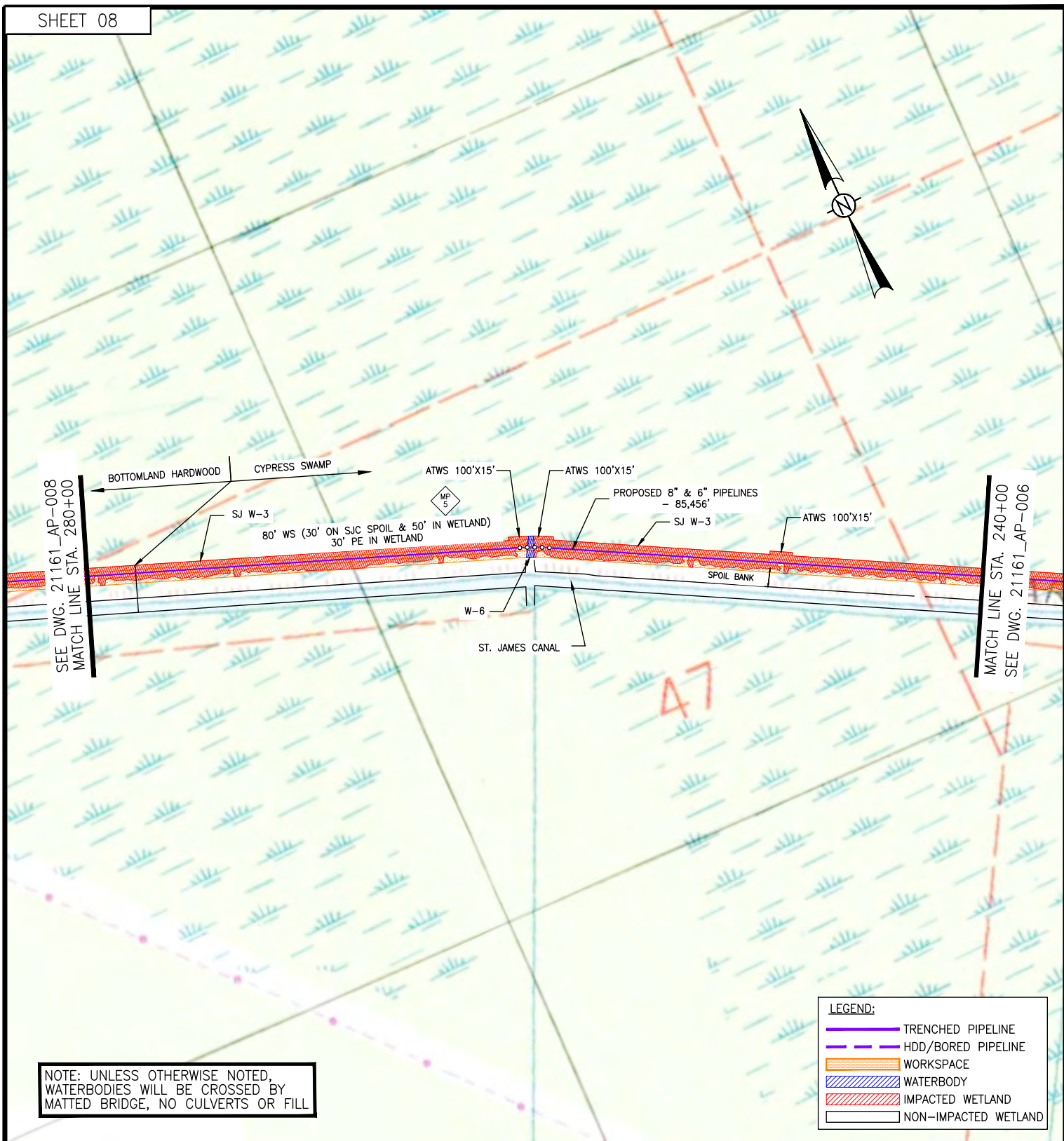


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METairie, LA 70002-7406
(504) 833-5321 Fax (504) 833-4940
www.projectconsulting.com

Revised Date: 4-25-24
Revised Approved By: DW

PROJECT JUPITER
PROPOSED 6" & 8" PIPELINES
ASCENSION AND ST. JAMES PARISHES, LA
STA. 200+00 TO STA. 240+00

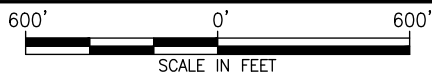
DWG. NO. 21161_OXY-AP-0006



NOTE: UNLESS OTHERWISE NOTED,
WATERBODIES WILL BE CROSSED BY
MATTED BRIDGE, NO CULVERTS OR FILL

LEGEND:	
	TRENCHED PIPELINE
	HDD/BORED PIPELINE
	WORKSPACE
	WATERBODY
	IMPACTED WETLAND
	NON-IMPACTED WETLAND

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GEOGRAPHIC COORDINATE SYSTEM: NAD83,
LOUISIANA STATE PLANE, SOUTH ZONE, U.S.
FOOT (LA83-SF-MOD).

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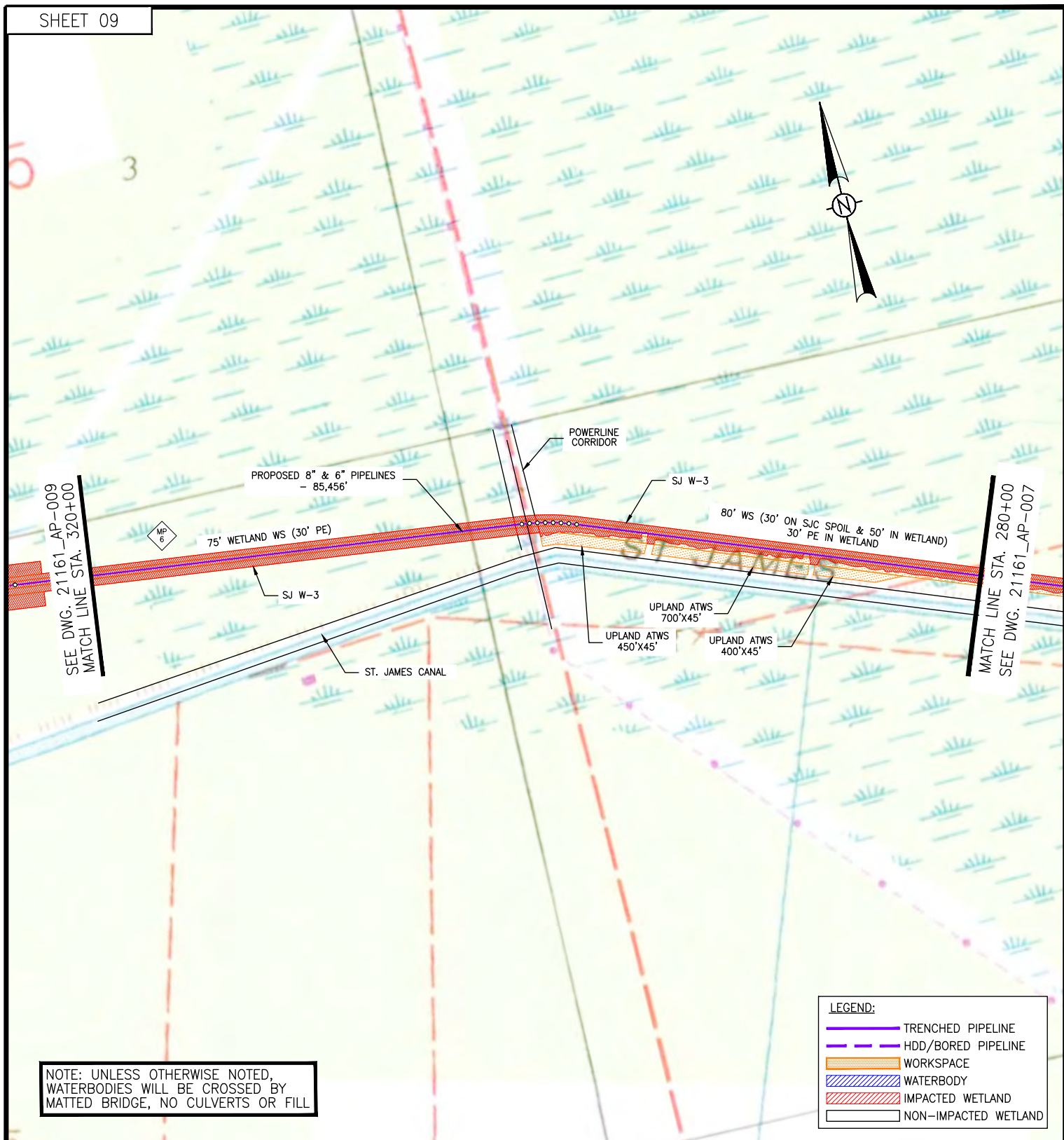


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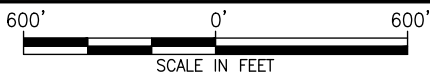
Revised Date: 4-25-24
Revised Approved By: DW

PROJECT JUPITER
PROPOSED 6" & 8" PIPELINES
ASCENSION AND ST. JAMES PARISHES, LA
STA. 240+00 TO STA. 280+00

DWG. NO. 21161_OXY-AP-0007



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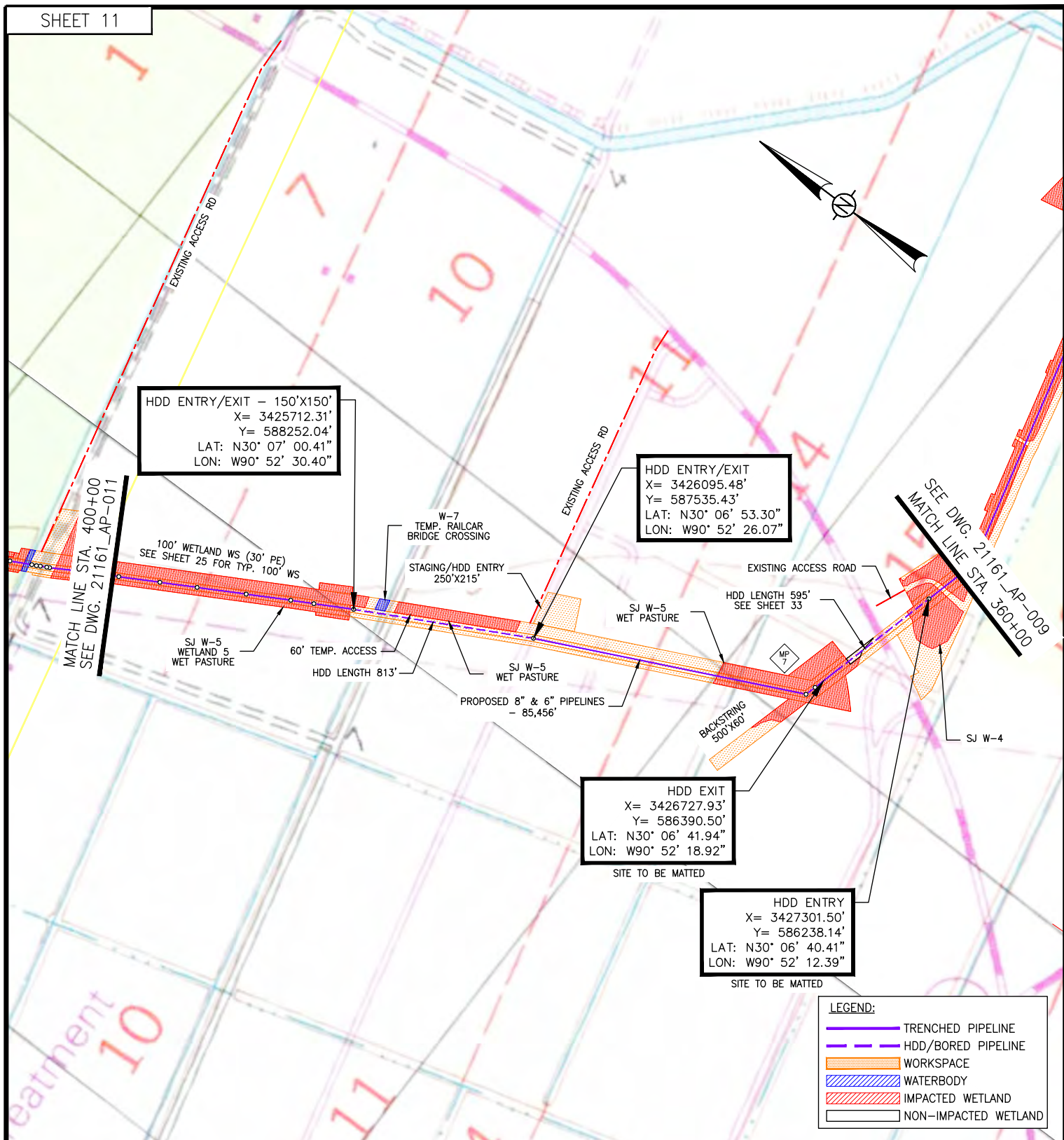


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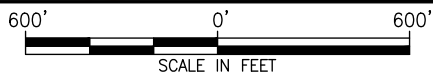
Revised Date: 3-26-24
Revised Approved By: DW

PROJECT JUPITER
PROPOSED 6" & 8" PIPELINES
ASCENSION AND ST. JAMES PARISHES, LA
STA. 280+00 TO STA. 320+00

DWG. NO. 21161_OXY-AP-0008



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APPLICATION BY:

OCCIDENTAL CHEMICAL CORPORATION



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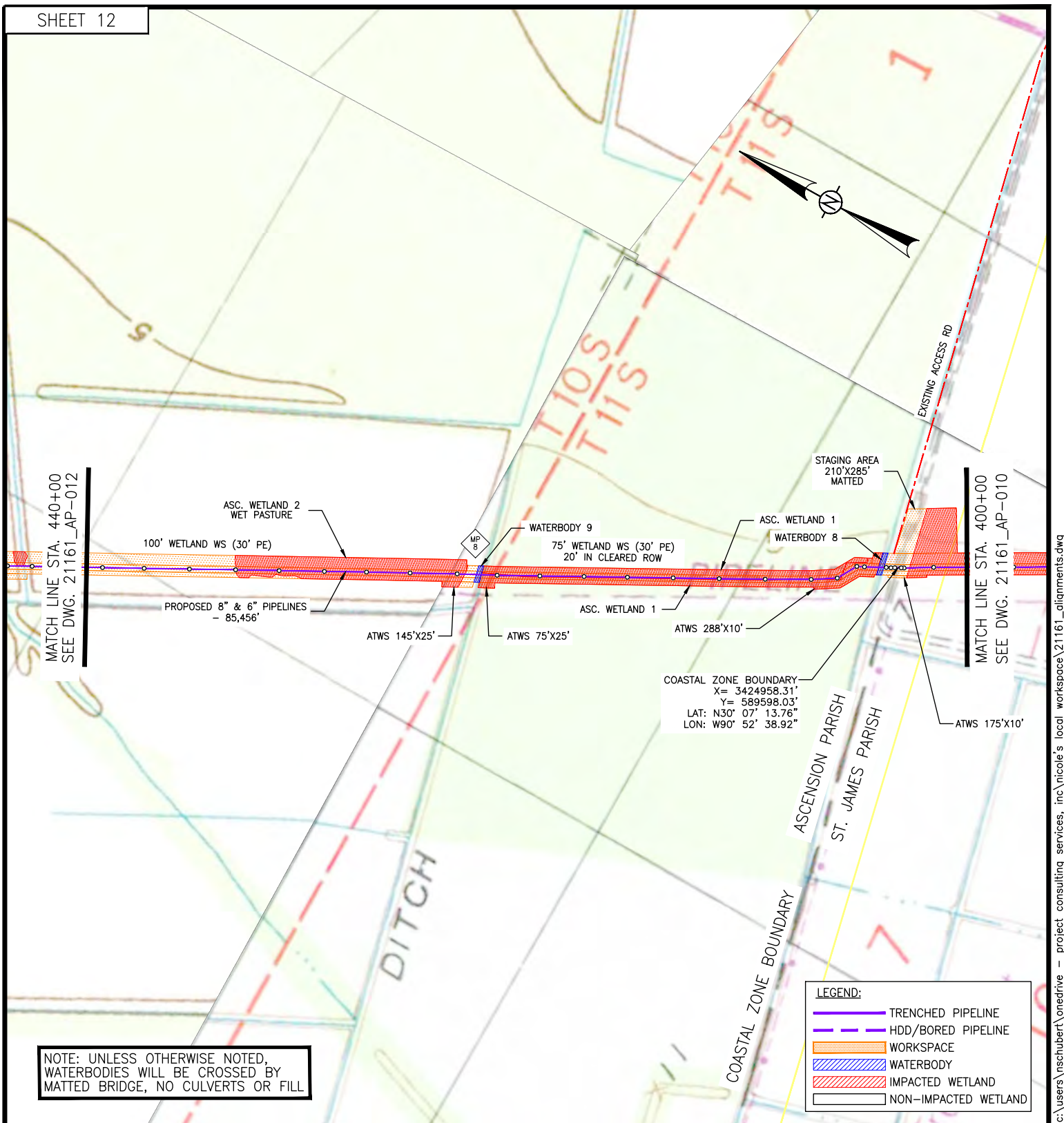
PROJECT CONSULTING SERVICES, INC.

3300 WEST ESPLANADE AVE., S. SUITE 500
METAIRIE, LA 70002-7406
(504) 833-5321 Fax (504) 833-4940
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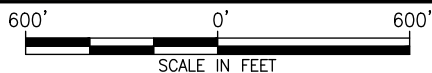
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PROJECT JUPITER
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ASCENSION AND ST. JAMES PARISHES, LA
STA. 360+00 TO STA. 400+00

DWG. NO. 21161_OXY-AP-0010



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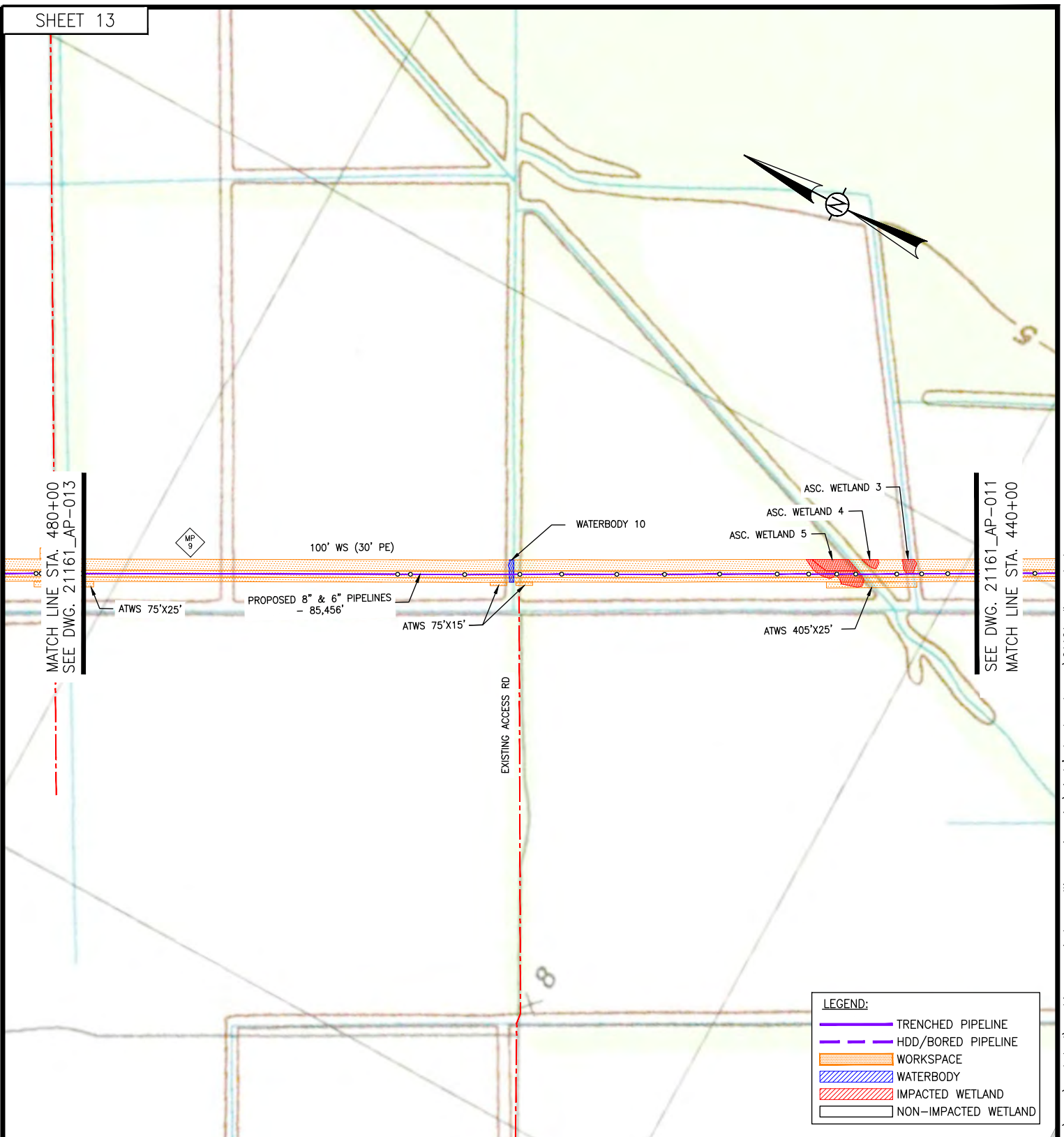
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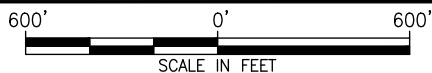
Revised Date: 3-29-24
Revised Approved By: DW

PROJECT JUPITER
PROPOSED 6" & 8" PIPELINES
ASCENSION AND ST. JAMES PARISHES, LA
STA. 400+00 TO STA. 440+00

DWG. NO. 21161_OXY-AP-0011



NOTE: THE CONTENT OF THIS DRAWING IS DESIGNED SPECIFICALLY FOR THE PURPOSE OF SECURING FEDERAL, STATE AND LOCAL ENVIRONMENTAL/REGULATORY AUTHORIZATIONS ONLY.



GEOGRAPHIC COORDINATE SYSTEM: NAD83, LOUISIANA STATE PLANE, SOUTH ZONE, U.S. FOOT (LA83-SF-MOD).

APPLICATION BY:

OCCIDENTAL CHEMICAL CORPORATION



Date: 11-15-23
Project No.: 21161
Drawn By: NMS

Checked By: TD
Approved By:

PREPARED BY:



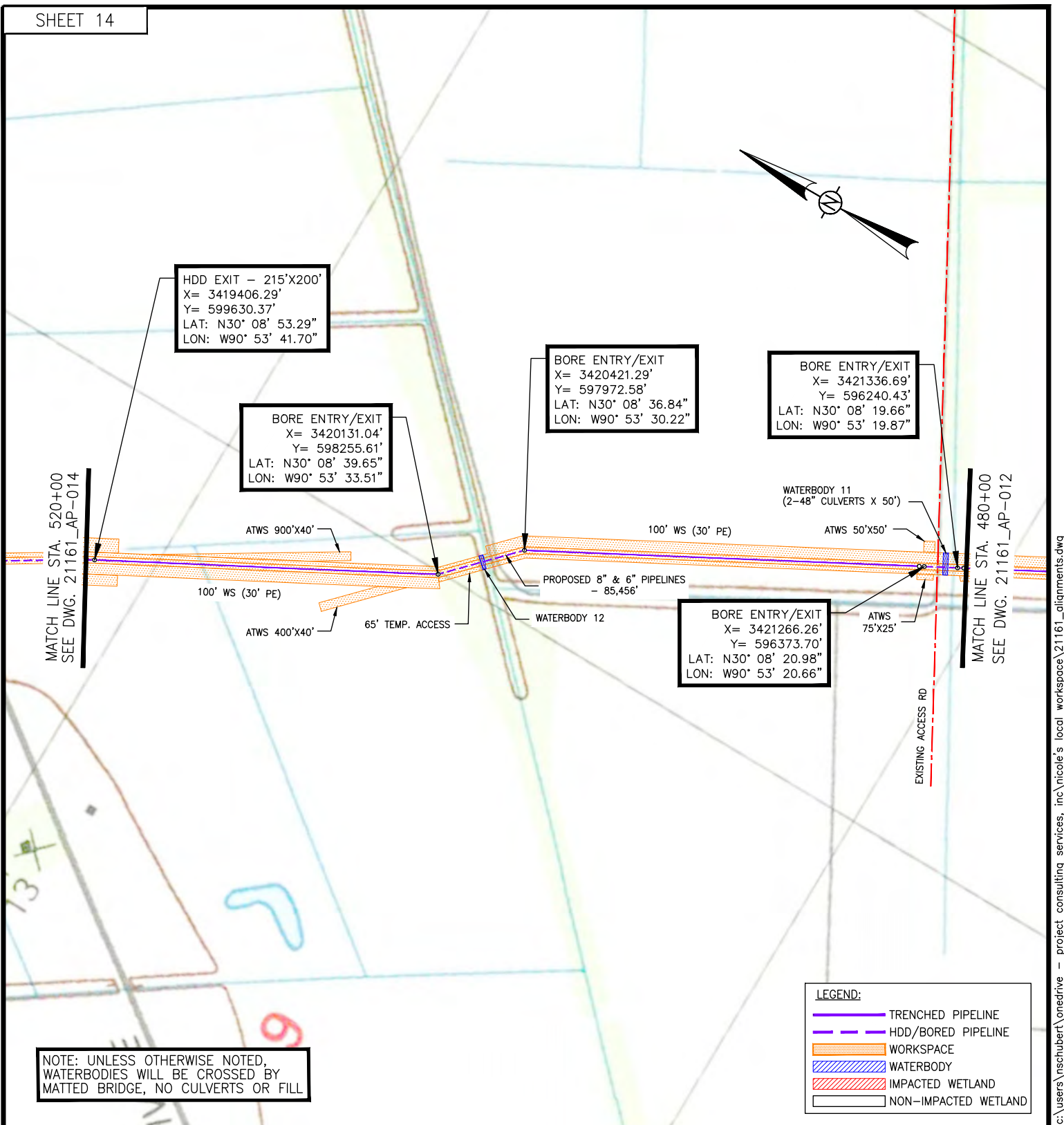
PROJECT CONSULTING SERVICES, INC.
3300 WEST ESPLANADE AVE., S., SUITE 500
METAIRIE, LA 70002-7406
(504) 833-5321 Fax (504) 833-4940
www.projectconsulting.com

Revised Date: 3-26-24
Revised Approved By: DW

PROJECT JUPITER
PROPOSED 6" & 8" PIPELINES
ASCENSION AND ST. JAMES PARISHES, LA

STA. 440+00 TO STA. 480+00

DWG. NO. 21161_OXY-AP-0012



APPLICATION BY:

OCCIDENTAL CHEMICAL CORPORATION



Date: 11-15-23
 Project No.: 21161
 Drawn By: NMS

Checked By: TD
 Approved By:

PREPARED BY:



PROJECT CONSULTING SERVICES, INC.

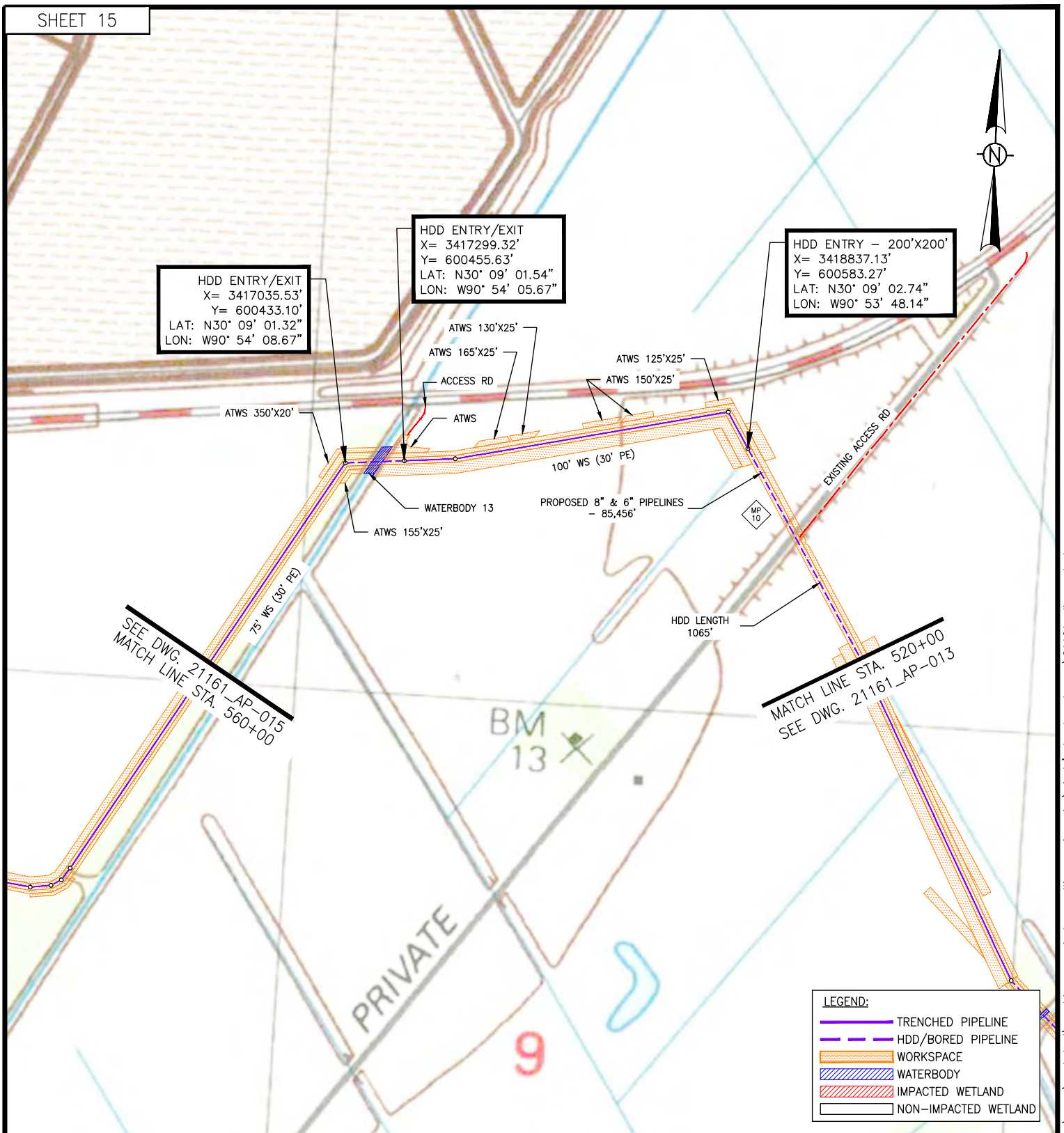
3300 WEST ESPLANADE AVE., S., SUITE 500
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 (504) 833-5321 Fax (504) 833-4940
 www.projectconsulting.com

Revised Date: 3-26-24
 Revised Approved By: DW

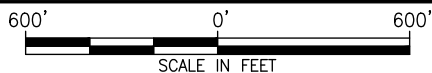
PROJECT JUPITER
 PROPOSED 6" & 8" PIPELINES
 ASCENSION AND ST. JAMES PARISHES, LA

STA. 480+00 TO STA. 520+00

DWG. NO. 21161_OXY-AP-0013



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GEOGRAPHIC COORDINATE SYSTEM: NAD83, LOUISIANA STATE PLANE, SOUTH ZONE, U.S. FOOT (LA83-SF-MOD).

APPLICATION BY:

OCCIDENTAL CHEMICAL CORPORATION



Date: 11-15-23
Project No.: 21161
Drawn By: NMS

Checked By: TD
Approved By:

PREPARED BY:

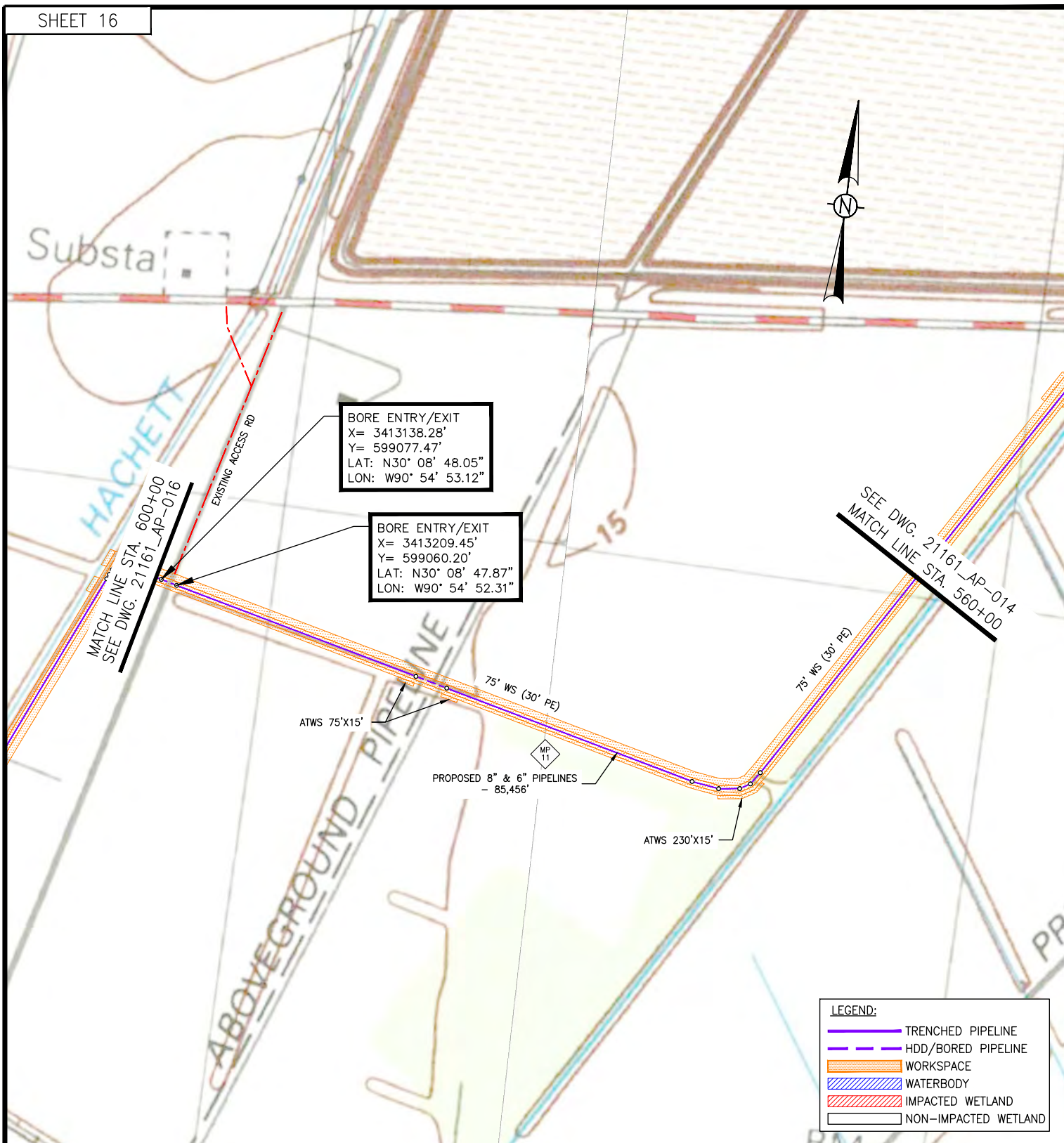


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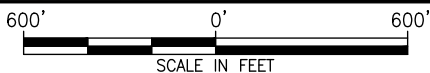
Revised Date: 3-26-24
Revised Approved By: DW

PROJECT JUPITER
PROPOSED 6" & 8" PIPELINES
ASCENSION AND ST. JAMES PARISHES, LA
STA. 520+00 TO STA. 560+00

DWG. NO. 21161_OXY-AP-0014



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GEOGRAPHIC COORDINATE SYSTEM: NAD83, LOUISIANA STATE PLANE, SOUTH ZONE, U.S. FOOT (LA83-SF-MOD).

APPLICATION BY:

OCCIDENTAL CHEMICAL CORPORATION



Date: 11-15-23
Project No.: 21161
Drawn By: NMS

Checked By: TD
Approved By:

PREPARED BY:

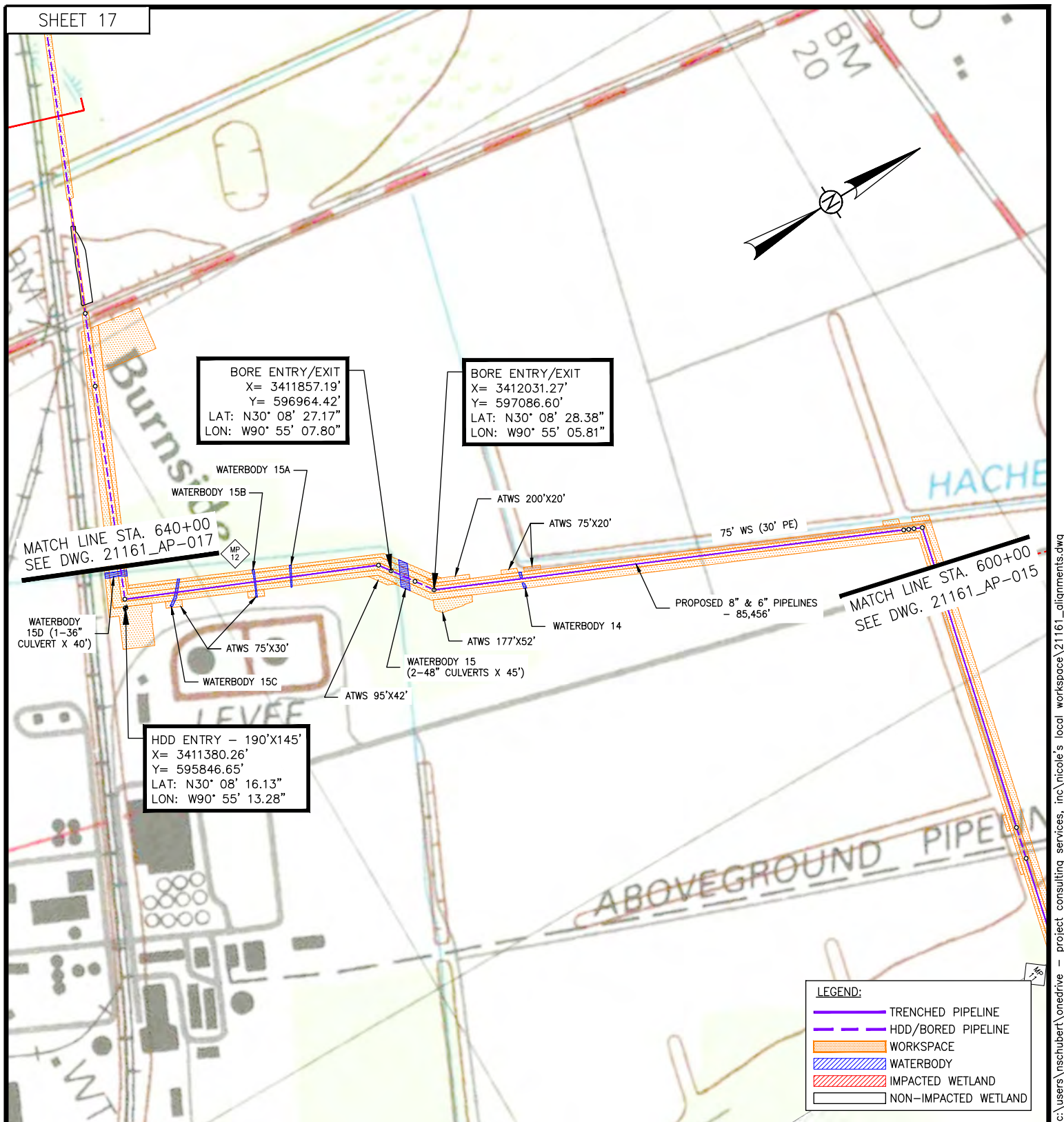


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Revised Date: 3-26-24
Revised Approved By: DW

PROJECT JUPITER
PROPOSED 6" & 8" PIPELINES
ASCENSION AND ST. JAMES PARISHES, LA
STA. 560+00 TO STA. 600+00

DWG. NO. 21161_OXY-AP-0015



APPLICATION BY:

OCCIDENTAL CHEMICAL CORPORATION



Date: 11-15-23
 Project No.: 21161
 Drawn By: NMS

Checked By: TD
 Approved By:

PREPARED BY:



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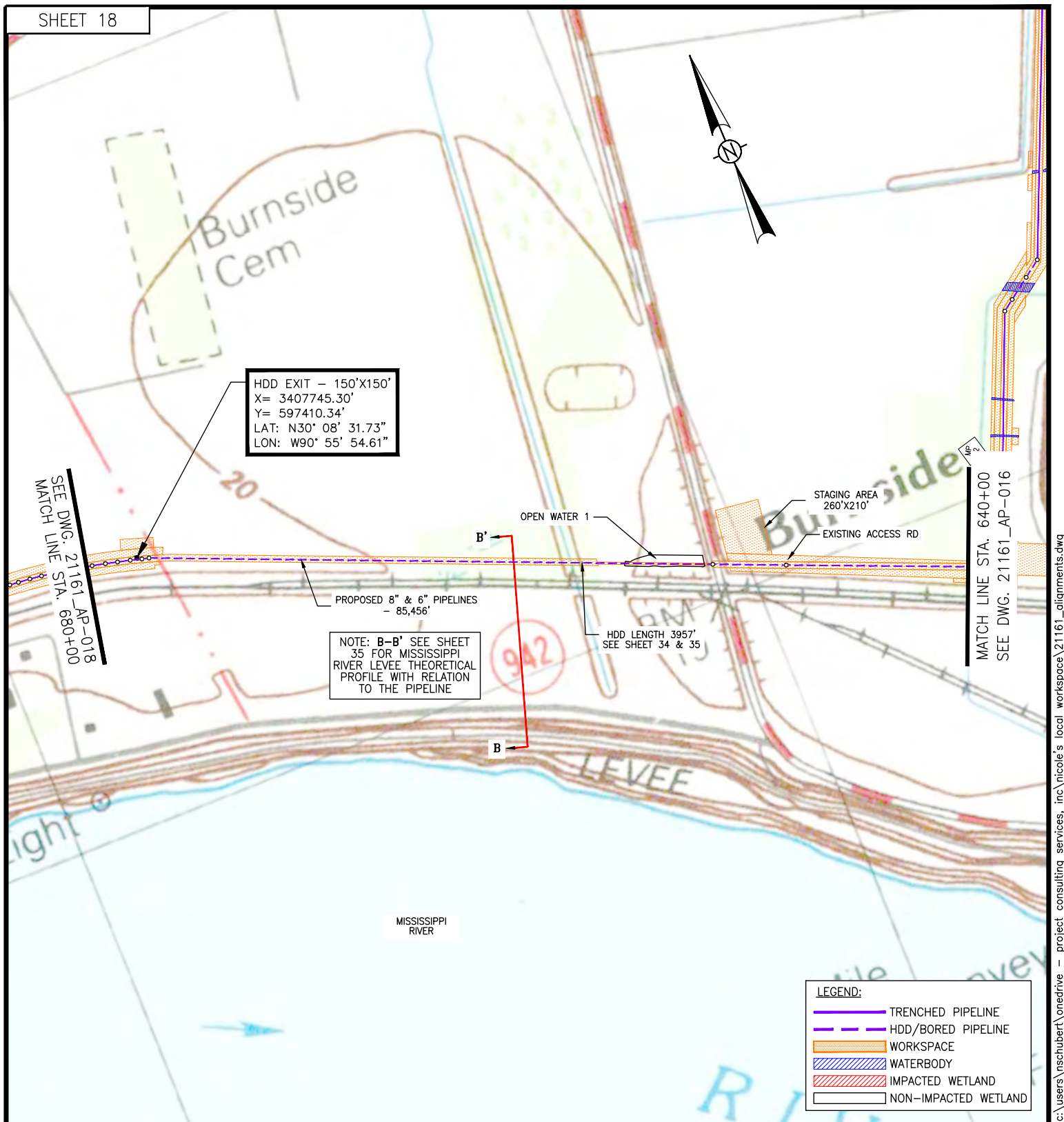
3300 WEST ESPLANADE AVE., SUITE 500
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 (504) 833-8321 Fax (504) 833-4940
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Revised Date: 3-26-24
 Revised Approved By: DW

PROJECT JUPITER
 PROPOSED 6" & 8" PIPELINES
 ASCENSION AND ST. JAMES PARISHES, LA

STA. 600+00 TO STA. 640+00

DWG. NO. 21161_OXY-AP-0016



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APPLICATION BY:

OCCIDENTAL CHEMICAL CORPORATION



Date: 11-15-23
Project No.: 21161
Drawn By: NMS

Checked By: TD
Approved By:

PREPARED BY:



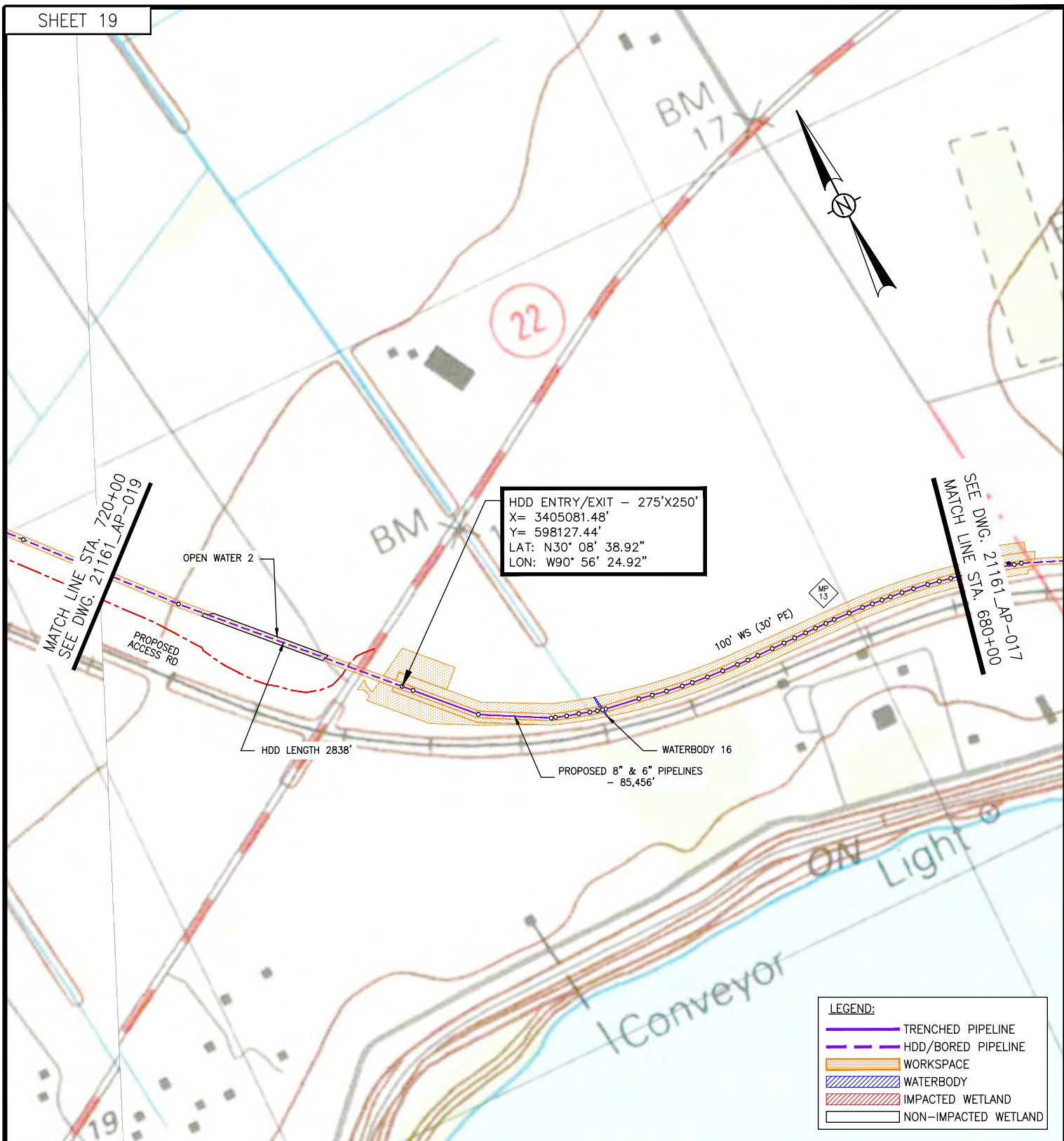
PROJECT CONSULTING SERVICES, INC.
3300 WEST ESPLANADE AVE., S., SUITE 500
METairie, LA 70002-7406
(504) 833-5321 Fax (504) 833-4940
www.projectconsulting.com

Revised Date: 3-26-24
Revised Approved By: DW

PROJECT JUPITER
PROPOSED 6" & 8" PIPELINES
ASCENSION AND ST. JAMES PARISHES, LA

STA. 640+00 TO STA. 680+00

DWG. NO. 21161_OXY-AP-0017



NOTE: THE CONTENT OF THIS DRAWING IS DESIGNED SPECIFICALLY FOR THE PURPOSE OF SECURING FEDERAL, STATE AND LOCAL ENVIRONMENTAL/REGULATORY AUTHORIZATIONS ONLY.

600' 0' 600'
SCALE IN FEET

GEOGRAPHIC COORDINATE SYSTEM: NAD83, LOUISIANA STATE PLANE, SOUTH ZONE, U.S. FOOT (LA83-SF-MOD).

APPLICATION BY:

OCCIDENTAL CHEMICAL CORPORATION



Date: 11-15-23
Project No.: 21161
Drawn By: NMS

Checked By: TD
Approved By:

PREPARED BY:

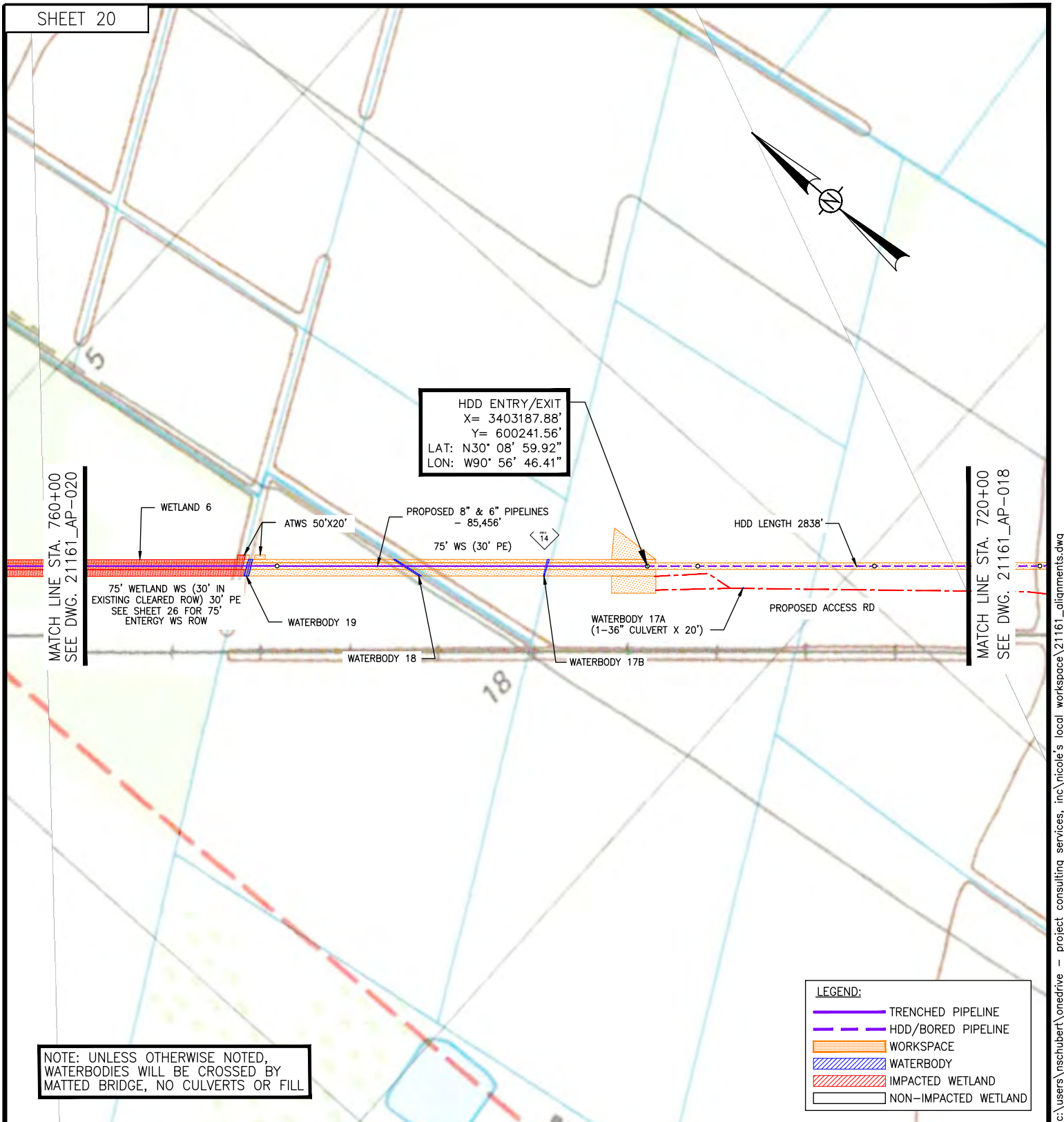


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Revised Date: 3-26-24
Revised Approved By: DW

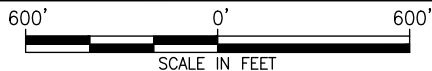
PROJECT JUPITER
PROPOSED 6" & 8" PIPELINES
ASCENSION AND ST. JAMES PARISHES, LA
STA. 680+00 TO STA. 720+00

DWG. NO. 21161_OXY-AP-0018



NOTE: UNLESS OTHERWISE NOTED,
WATERBODIES WILL BE CROSSED BY
MATTED BRIDGE, NO CULVERTS OR FILL

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GEOGRAPHIC COORDINATE SYSTEM: NAD83,
LOUISIANA STATE PLANE, SOUTH ZONE, U.S.
FOOT (LA83-SF-MOD).

APPLICATION BY:

OCCIDENTAL CHEMICAL CORPORATION



Date: 11-15-23
Project No.: 21161
Drawn By: NMS

Checked By: TD
Approved By:

PREPARED BY:



PROJECT CONSULTING SERVICES, INC.

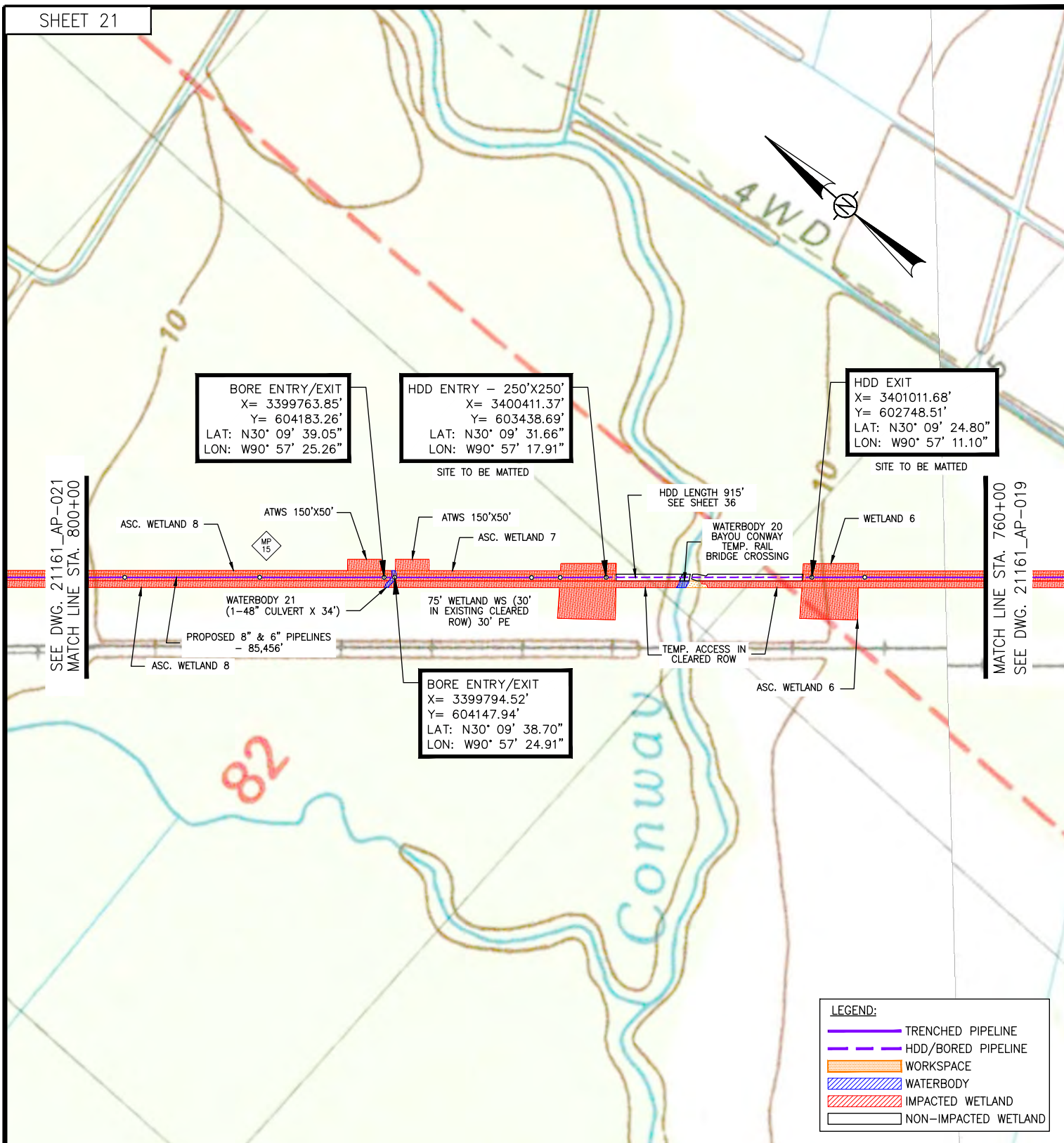
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(504) 833-5321 Fax (504) 833-4940
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Revised Date: 3-26-24
Revised Approved By: DW

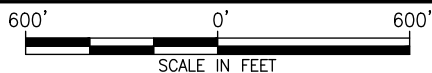
PROJECT JUPITER
PROPOSED 6" & 8" PIPELINES
ASCENSION AND ST. JAMES PARISHES, LA

STA. 720+00 TO STA. 760+00

DWG. NO. 21161_OXY-AP-0019



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GEOGRAPHIC COORDINATE SYSTEM: NAD83, LOUISIANA STATE PLANE, SOUTH ZONE, U.S. FOOT (LA83-SF-MOD).

APPLICATION BY:

OCCIDENTAL CHEMICAL CORPORATION



Date: 11-15-23
Project No.: 21161
Drawn By: NMS

Checked By: TD
Approved By:

PREPARED BY:

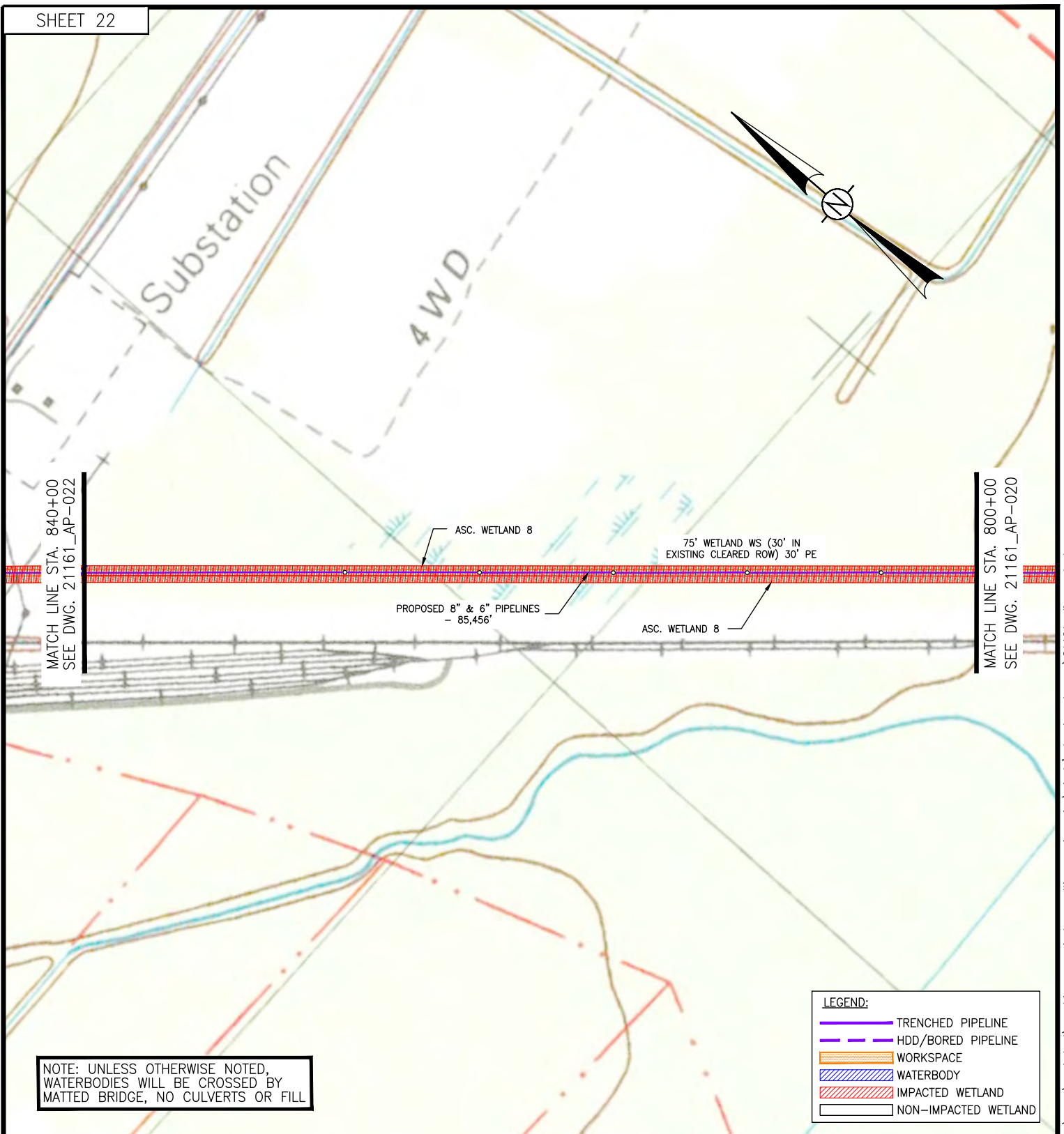


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(504) 833-5321 Fax (504) 833-4940
www.projectconsulting.com

Revised Date: 3-26-24
Revised Approved By: DW

PROJECT JUPITER
PROPOSED 6" & 8" PIPELINES
ASCENSION AND ST. JAMES PARISHES, LA
STA. 760+00 TO STA. 800+00

DWG. NO. 21161_OXY-AP-0020



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600' 0' 600'
SCALE IN FEET

GEOGRAPHIC COORDINATE SYSTEM: NAD83,
LOUISIANA STATE PLANE, SOUTH ZONE, U.S.
FOOT (LA83-SF-MOD).

APPLICATION BY:

OCCIDENTAL CHEMICAL CORPORATION



Date: 11-15-23
Project No.: 21161
Drawn By: NMS

Checked By: TD
Approved By:

PREPARED BY:



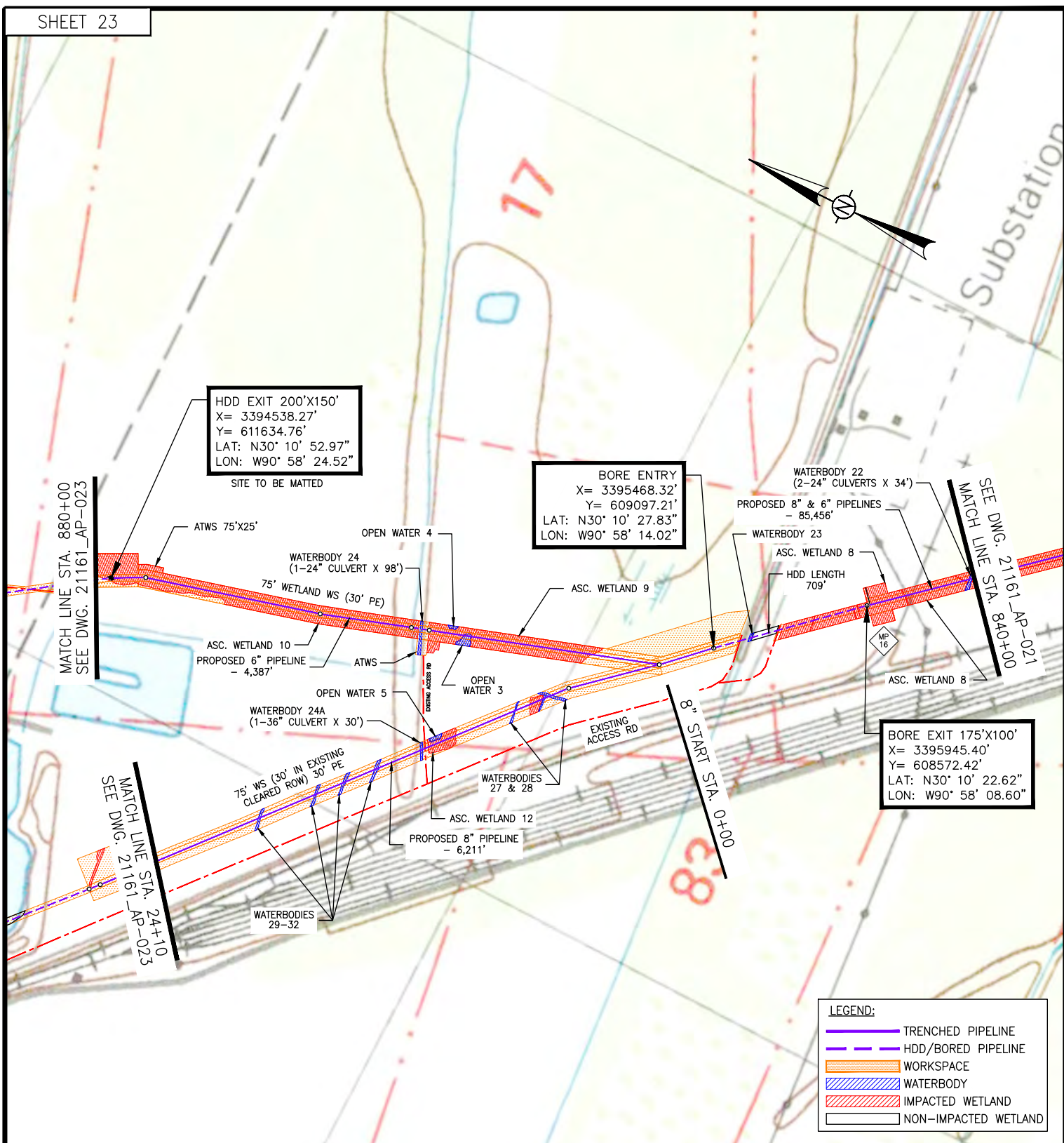
PROJECT CONSULTING SERVICES, INC.
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METairie, LA 70002-7406
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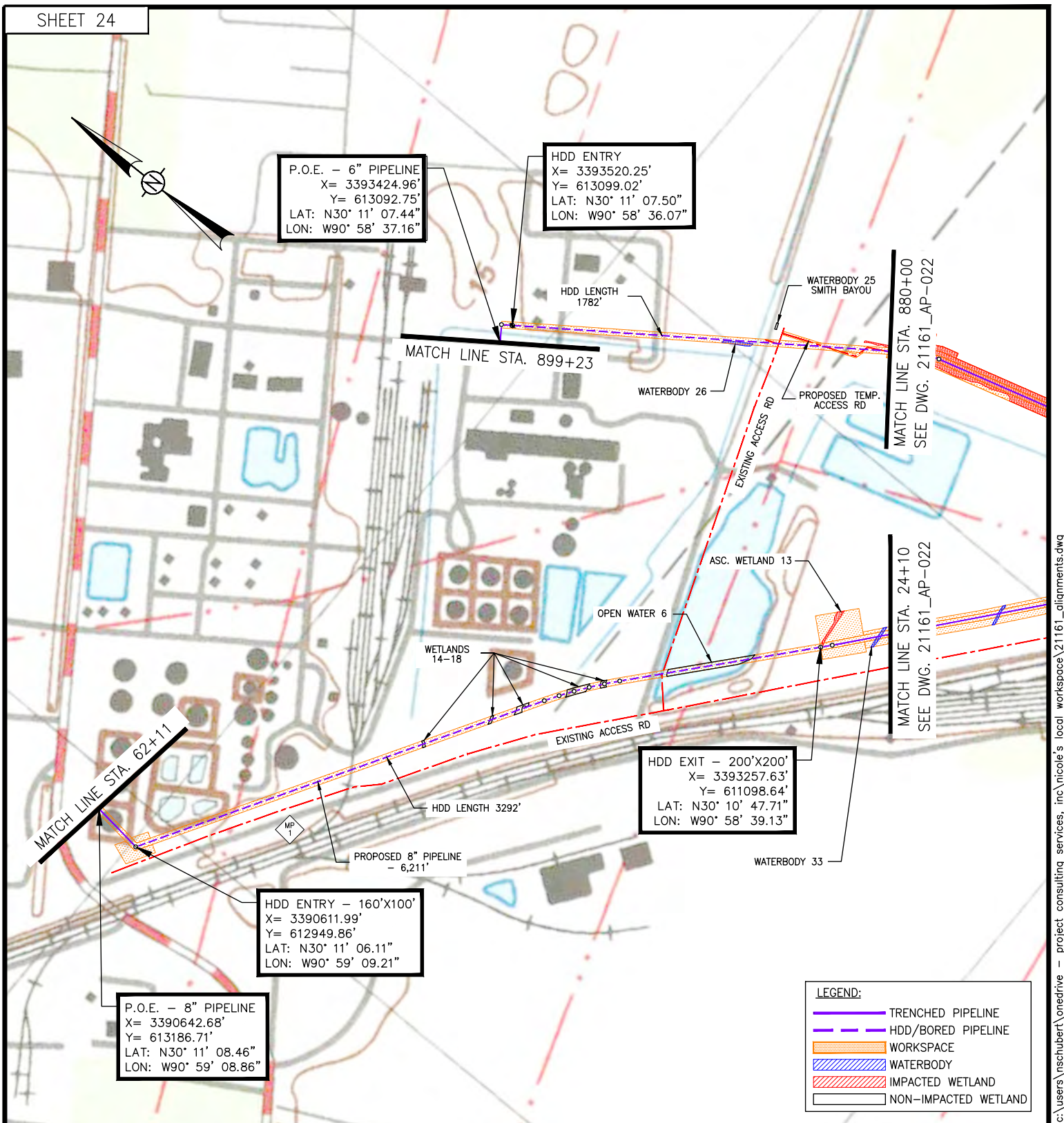
Revised Date: 3-26-24
Revised Approved By: DW

PROJECT JUPITER
PROPOSED 6" & 8" PIPELINES
ASCENSION AND ST. JAMES PARISHES, LA

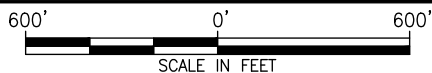
STA. 800+00 TO STA. 840+00

DWG. NO. 21161_OXY-AP-0021





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GEOGRAPHIC COORDINATE SYSTEM: NAD83, LOUISIANA STATE PLANE, SOUTH ZONE, U.S. FOOT (LA83-SF-MOD).

APPLICATION BY:

OCCIDENTAL CHEMICAL CORPORATION



Date: 11-15-23
 Project No.: 21161
 Drawn By: NMS

Checked By: TD
 Approved By:

PREPARED BY:



PROJECT CONSULTING SERVICES, INC.

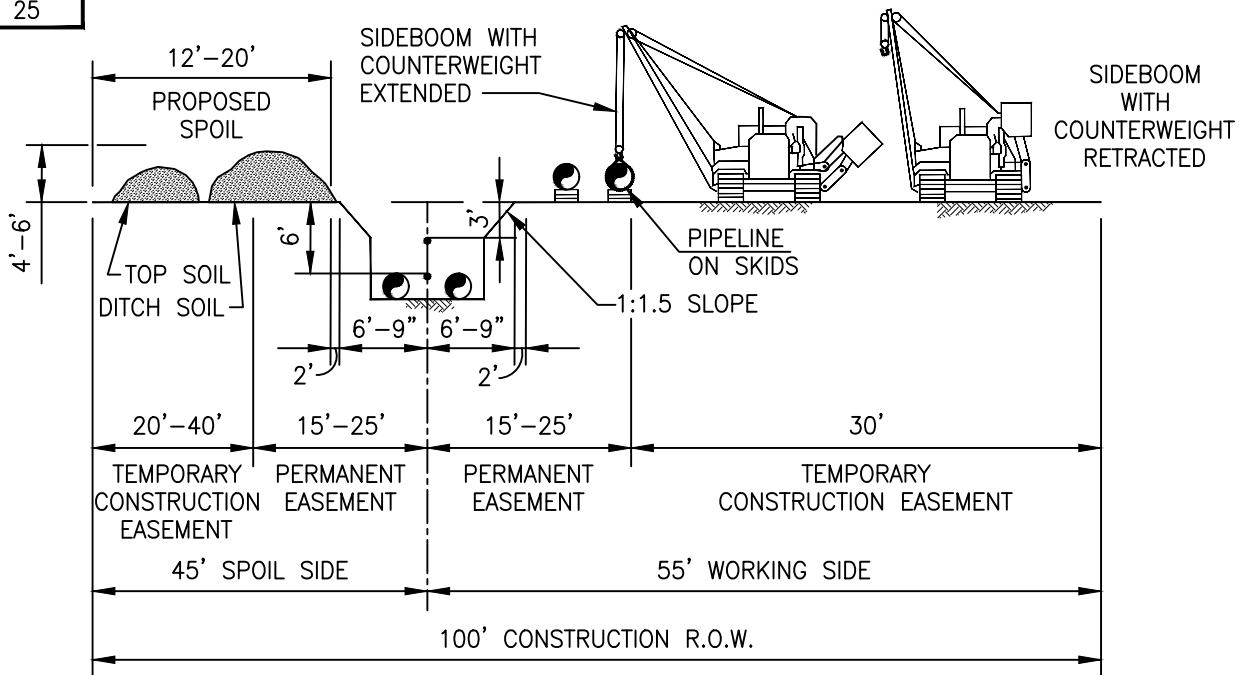
3300 WEST ESPLANADE AVE., S., SUITE 500
 METAIRIE, LA 70002-7406
 (504) 833-6321 Fax (504) 833-4940
 www.projectconsulting.com

Revised Date: 3-29-24
 Revised Approved By: DW

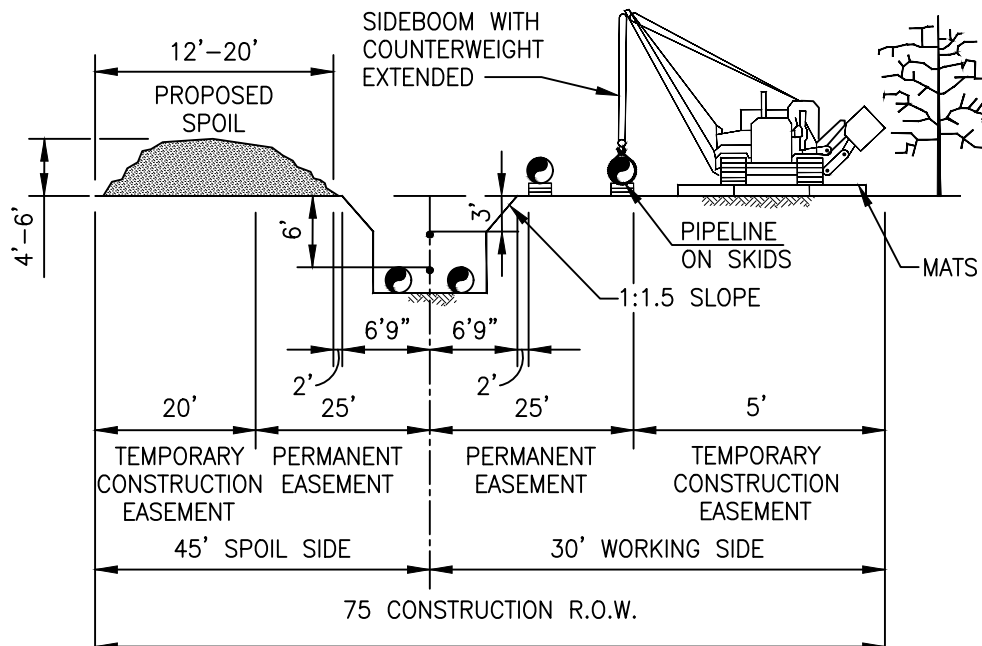
PROJECT JUPITER
 PROPOSED 6" & 8" PIPELINES
 ASCENSION AND ST. JAMES PARISHES, LA

STA. 880+00 TO STA. 899+23

DWG. NO. 21161_OXY-AP-0023




UPLAND AND HERBACEOUS WETLAND CONSTRUCTION ROW

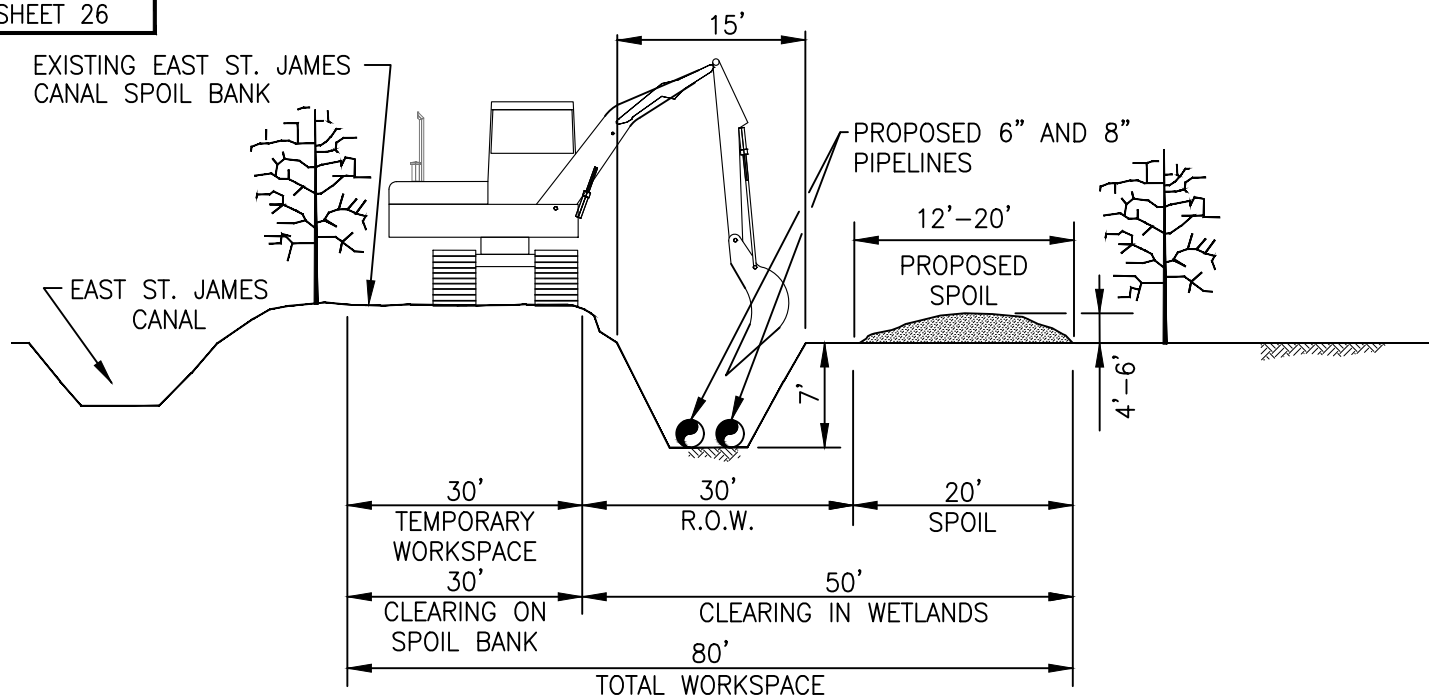


75' FORESTED WETLAND CONSTRUCTION ROW

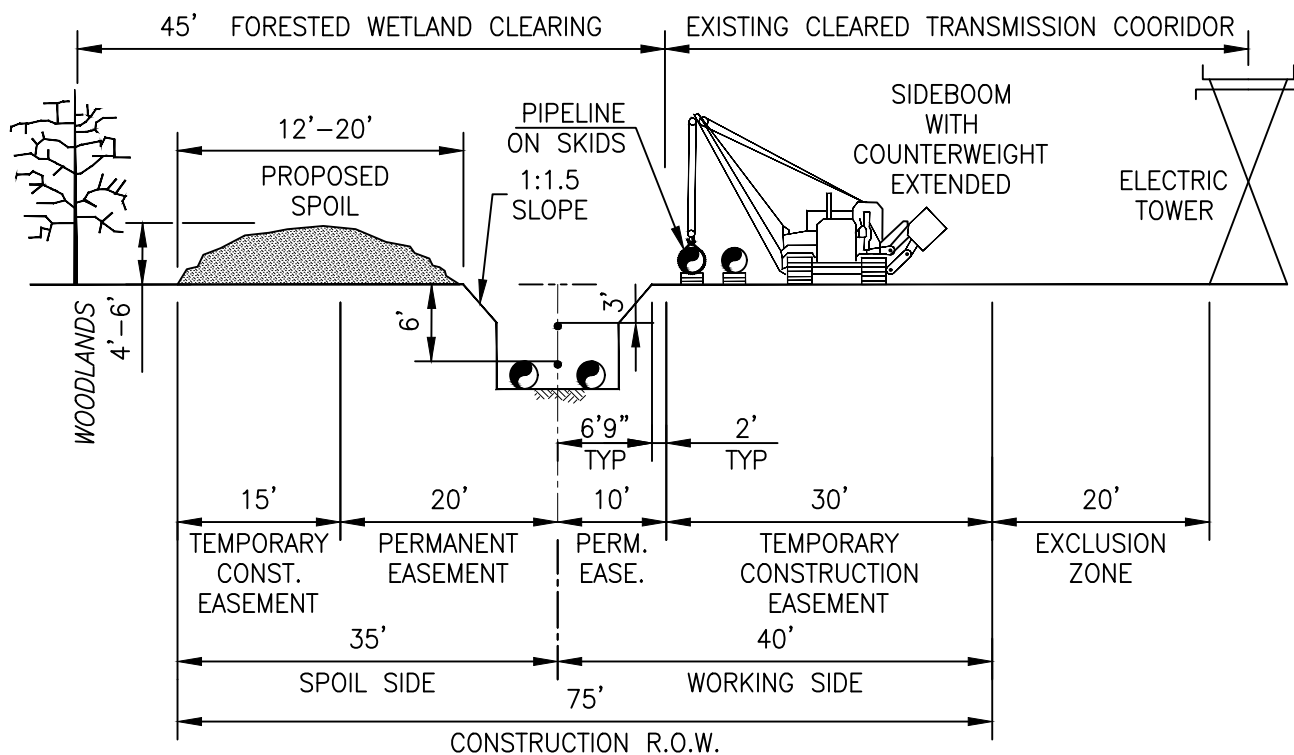
NOTES:

1. FLAG WETLAND BOUNDARIES PRIOR TO CLEARING.
2. INSTALL TIMBER MATS THROUGH ENTIRE WETLAND AREA. EQUIPMENT NECESSARY FOR RIGHT-OF-WAY CLEARING MAY MAKE ONE (1) PASS THROUGH THE WETLAND BEFORE MATS ARE INSTALLED.
3. RESTRICT ROOT GRUBBING TO ONLY THAT AREA OVER THE DITCHLINE AND DITCH SPOIL AREAS AND REMOVE FROM WETLAND FOR DISPOSAL.
4. REMOVE TIMBER MATS OR PREFABRICATED MATS FROM WETLAND UPON COMPLETION.
5. RESTORE GRADE TO NEAR PRE-CONSTRUCTION TOPOGRAPHY.
6. BASED UPON SOIL CONDITIONS, SPOIL PILE CONFIGURATION MAY BE ADJUSTED.
7. TOP SOIL SEGREGATION WILL OCCUR IN AGRICULTURAL LAND.
8. PROJECT CONSISTS OF ONE 6" PIPELINE WITH 1"-1.5" CONCRETE WEIGHT COATING, ONE 8" PIPELINE, AND ONE 2" FIBER LINE BURIED TO 6' DEPTH OF COVER.
9. ONE 2" FIBER LINE WILL BE INSTALLED TO 3' DEPTH OF COVER.
10. PIPELINES TO MAINTAIN MINIMUM 2' SEPARATION.
11. BOARD MATS TO BE UTILIZED AS NECESSARY.

 PROJECT CONSULTING SERVICES, INC. 3300 WEST ESPLANADE AVE., S., SUITE 500 METAIRIE, LA 70002-7408 (504) 833-5321 Fax (504) 833-4940 www.projectconsulting.com		TYPICAL CONSTRUCTION ROW CROSS-SECTIONS	
		DRAWN BY: PCS DATE: 12/1/23	CHK'D. BY: PCS APPRV. BY: PCS
DWG. NO. OXY-0001		REV A	



EAST ST. JAMES CANAL CONSTRUCTION ROW



ENTERGY TRANSMISSION CORRIDOR CONSTRUCTION ROW

NOTES:

1. FLAG WETLAND BOUNDARIES PRIOR TO CLEARING.
2. INSTALL TIMBER MATS THROUGH ENTIRE WETLAND AREA. EQUIPMENT NECESSARY FOR RIGHT-OF-WAY CLEARING MAY MAKE ONE (1) PASS THROUGH THE WETLAND BEFORE MATS ARE INSTALLED.
3. RESTRICT ROOT GRUBBING TO ONLY THAT AREA OVER THE DITCHLINE AND DITCH SPOIL AREAS AND REMOVE FROM WETLAND FOR DISPOSAL.
4. REMOVE TIMBER MATS OR PREFABRICATED MATS FROM WETLAND UPON COMPLETION.
5. RESTORE GRADE TO NEAR PRE-CONSTRUCTION TOPOGRAPHY.
6. BASED UPON SOIL CONDITIONS, SPOIL PILE CONFIGURATION MAY BE ADJUSTED.

PROJECT CONSULTING SERVICES, INC.
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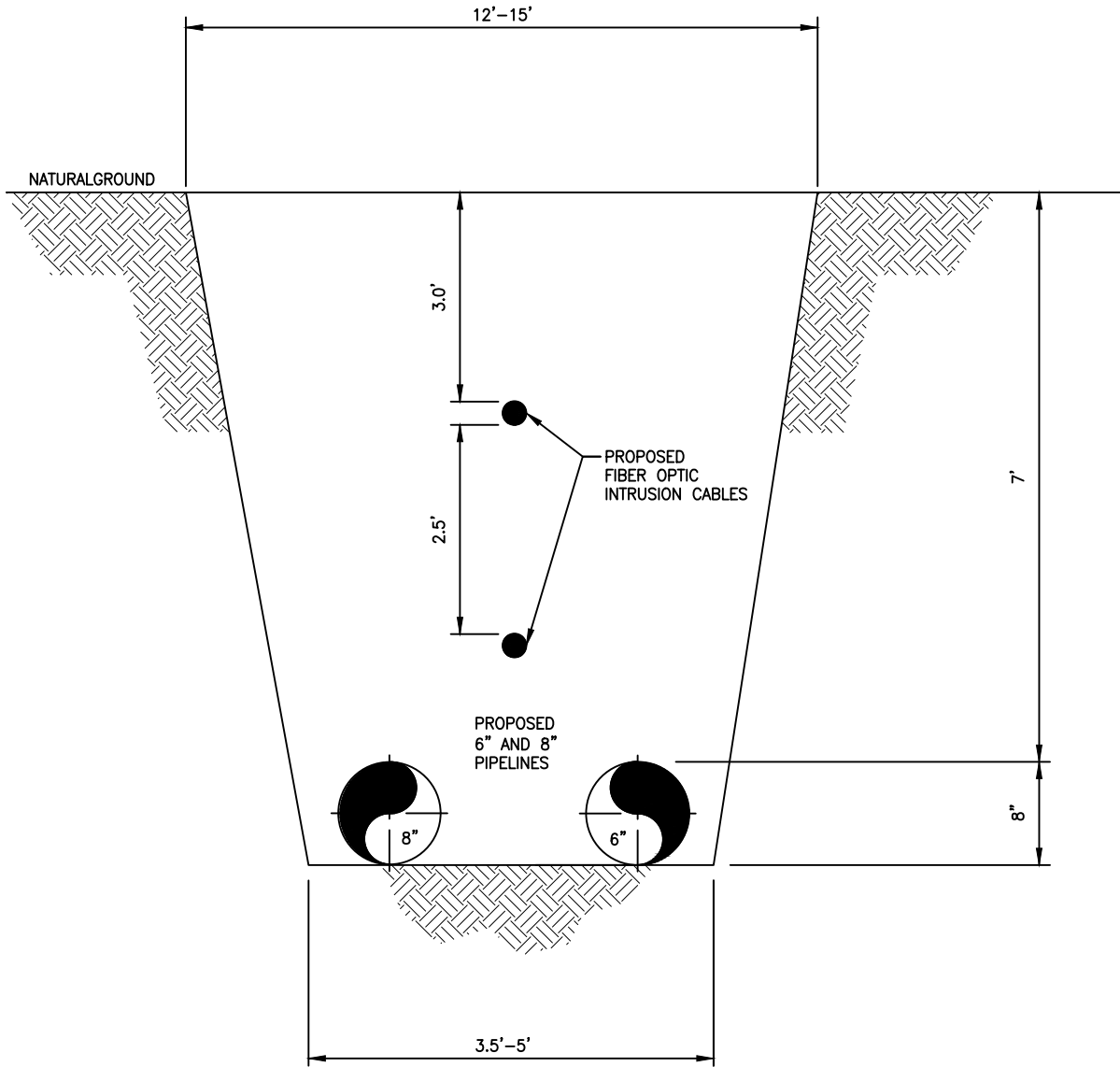
**TYPICAL CONSTRUCTION
ROW CROSS-SECTIONS**

DRAWN BY: PCS CHK'D. BY: PCS

DATE: 12/1/23 APPRV. BY: PCS

DWG. NO. OXY-0003

REV
A




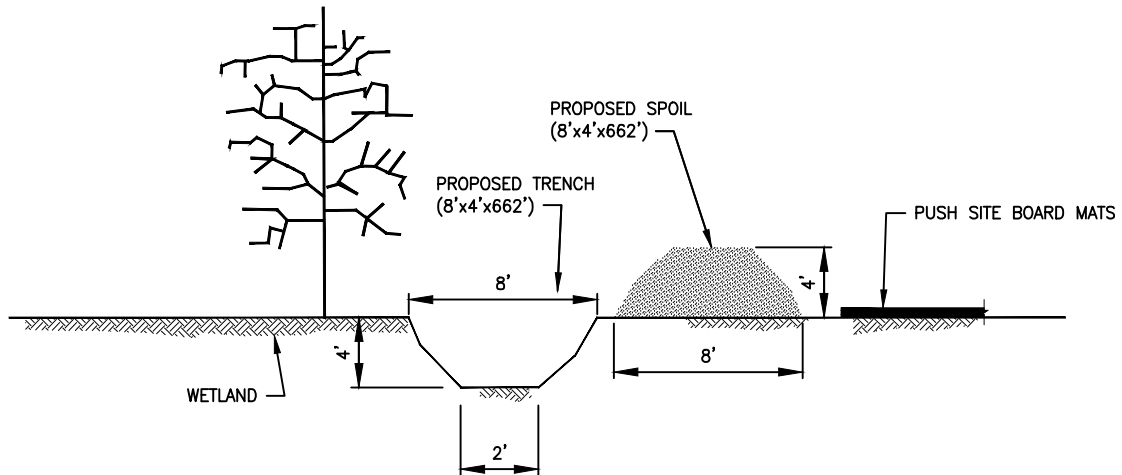
TYPICAL TRENCH PROFILE

NOT TO SCALE

NOTES:

1. ALTHOUGH THE DIMENSIONS SHOWN ARE TYPICAL, SOME VARIATIONS MAY EXIST DUE TO SITE SPECIFIC CONDITIONS.
2. PROJECT CONSISTS OF ONE 6" PIPELINE WITH 1"-1.5" CONCRETE WEIGHT COATING, ONE 8" PIPELINE, AND ONE 2" FIBER LINE BURIED TO 6' DEPTH OF COVER.
3. ONE 2" FIBER LINE WILL BE INSTALLED TO 3' DEPTH OF COVER.
4. PIPELINES TO MAINTAIN MINIMUM 2' SEPARATION.

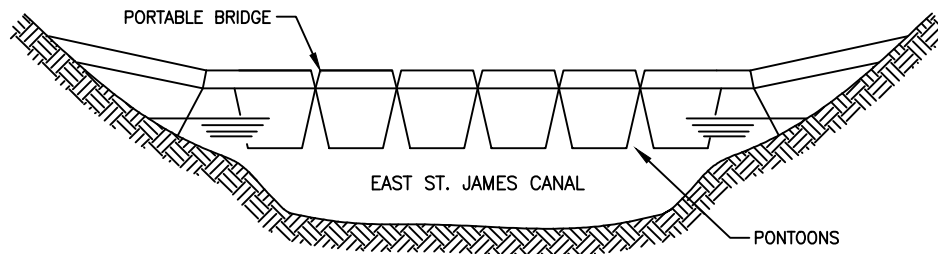
 PROJECT CONSULTING SERVICES, INC. 3300 WEST ESPLANADE AVE., S., SUITE 500 METAIRIE, LA 70002-7406 (504) 833-5321 Fax (504) 833-4940 www.projectconsulting.com		TYPICAL CONSTRUCTION TRENCH DETAIL	
		DRAWN BY: PCS	CHK'D. BY: PCS
DATE: 12/1/23		APPRV. BY: PCS	
DWG. NO. OXY-0005			REV A



PROPOSED CRAWFISH POND PUSH SITE LEVEE

NOTES:

1. 492 CUBIC YARDS OF EXCAVATED MATERIAL.



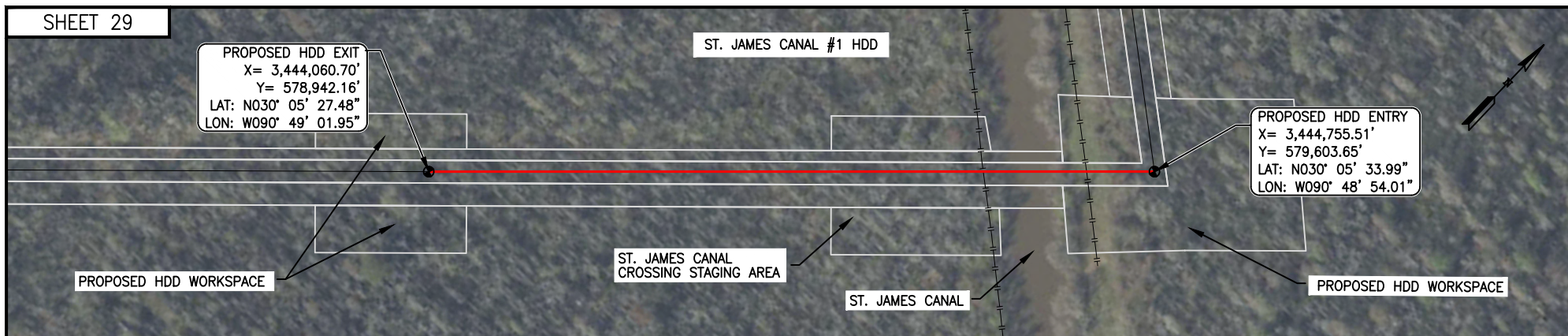
TEMPORARY EQUIPMENT BRIDGE

FLEXI-FLOAT OR PORTABLE

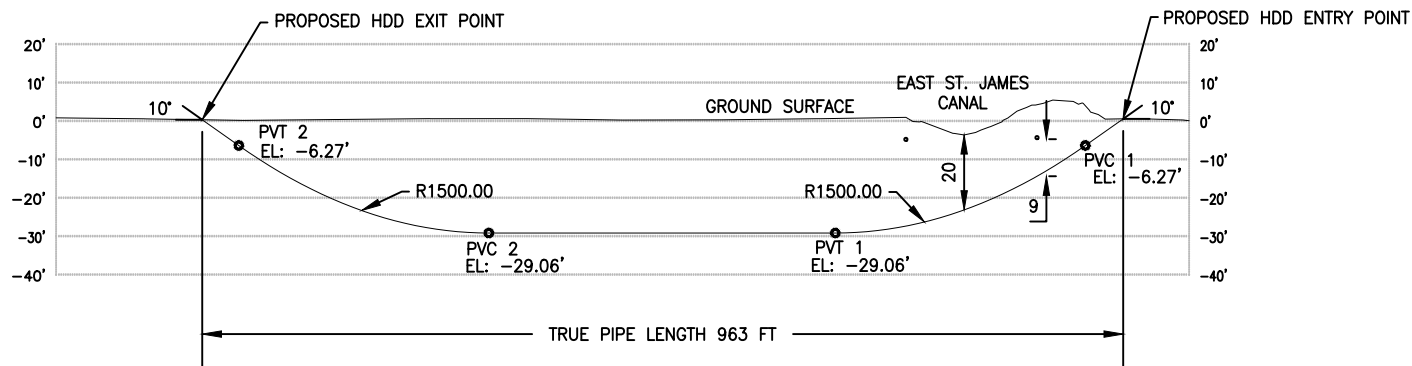
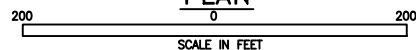
NOTES:

1. REMOVE FLOTATION DURING CLEANUP.
2. THE WIDTH AND LENGTH OF THE FLOTATION DEVICE WILL VARY DEPENDING ON THE DEPTH AND WIDTH OF THE CROSSING.

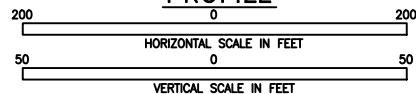
 PROJECT CONSULTING SERVICES, INC. 3300 WEST ESPLANADE AVE., S., SUITE 500 METAIRIE, LA 70002-7406 (504) 833-5321 Fax (504) 833-4940 www.projectconsulting.com		TYPICAL CONSTRUCTION CRAWFISH POND PUSH SITE LEVEE TEMPORARY EQUIPMENT BRIDGE	
		DRAWN BY: PCS	CHK'D. BY: PCS
DATE: 12/1/23		APPRV. BY: PCS	
DWG. NO. OXY-0006			REV A



PLAN



PROFILE



DIRECTIONAL DRILL DATA 6 & 8 INCH ST. JAMES CANAL #1 HDD		
DESCRIPTION	STATION (FT)	ELEVATION (FT)
ENTRY @ 10"	0+00	0.68
PVC1 (10.00' @ 1,500 FT R.)	0+39	-6.27
PVT1	3+00	-29.06
PVC2 (10.00' @ 1,500 FT R.)	6+61	-29.06
PVT2	9+21	-6.27
EXIT @ 10"	9+59	0.45
HORIZONTAL DISTANCE = 959 FT		
DIRECT DRILL PIPE LENGTH = 963 FT		

NOTE: REFERENCE DRAWING - PCS HDD DRAWING, 21161_HDD-014, REV A, 11/6/23.



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JUPITER PIPELINE
ST. JAMES CANAL #1 HDD
PLAN & PROFILE

DRAWN BY: PCS CHK'D. BY: PCS

DATE: 12-2-23 APPRV. BY: PCS

DWG. NO. OXY-0007

REV
A

PROPOSED HDD EXIT
 X= 3,429,591.70'
 Y= 586,690.58'
 LAT: N030° 06' 44.80"
 LON: W090° 51' 46.30"

EAST ST. JAMES CANAL
 PUSH SITE & EAST ST.
 JAMES CANAL #2 HDD
 WORKSPACE

ST. JAMES CANAL #2 HDD

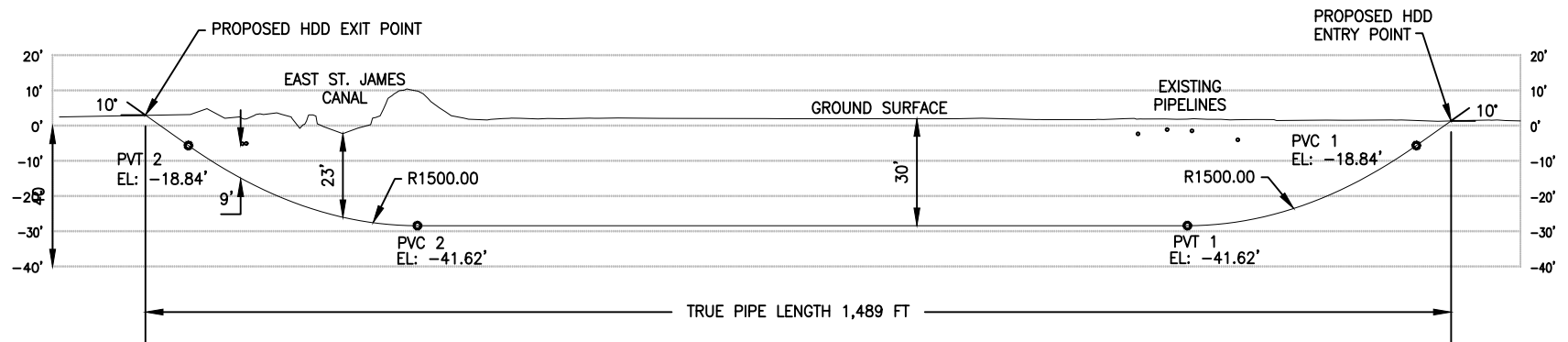
PROPOSED TEMPORARY WORKSPACE

EAST ST. JAMES CANAL

PROPOSED HDD ENTRY
 X= 3,431,049.25'
 Y= 586,533.20'
 LAT: N030° 06' 43.18"
 LON: W090° 51' 29.71"

PLAN

200 0 200
 SCALE IN FEET



PROFILE

200 0 200
 HORIZONTAL SCALE IN FEET
 50 0 50
 VERTICAL SCALE IN FEET

DIRECTIONAL DRILL DATA 6 & 8 INCH ST. JAMES CANAL #2 HDD		
DESCRIPTION	STATION (FT)	ELEVATION (FT)
ENTRY @ 10°	0+00	1.44
PVC1 (10.00° @ 1,500 FT R.)	0+39	-5.52
PVT1	3+00	-28.31
PVC2 (10.00° @ 1,500 FT R.)	11+76	-28.31
PVT2	14+36	-5.52
EXIT @ 10°	14+85	3.09
HORIZONTAL DISTANCE = 1,485 FT		
DIRECT DRILL PIPE LENGTH = 1,489 FT		

NOTE: REFERENCE DRAWING - PCS HDD DRAWING, 21161_HDD-15, REV A, 11/6/23.



PROJECT CONSULTING SERVICES, INC.

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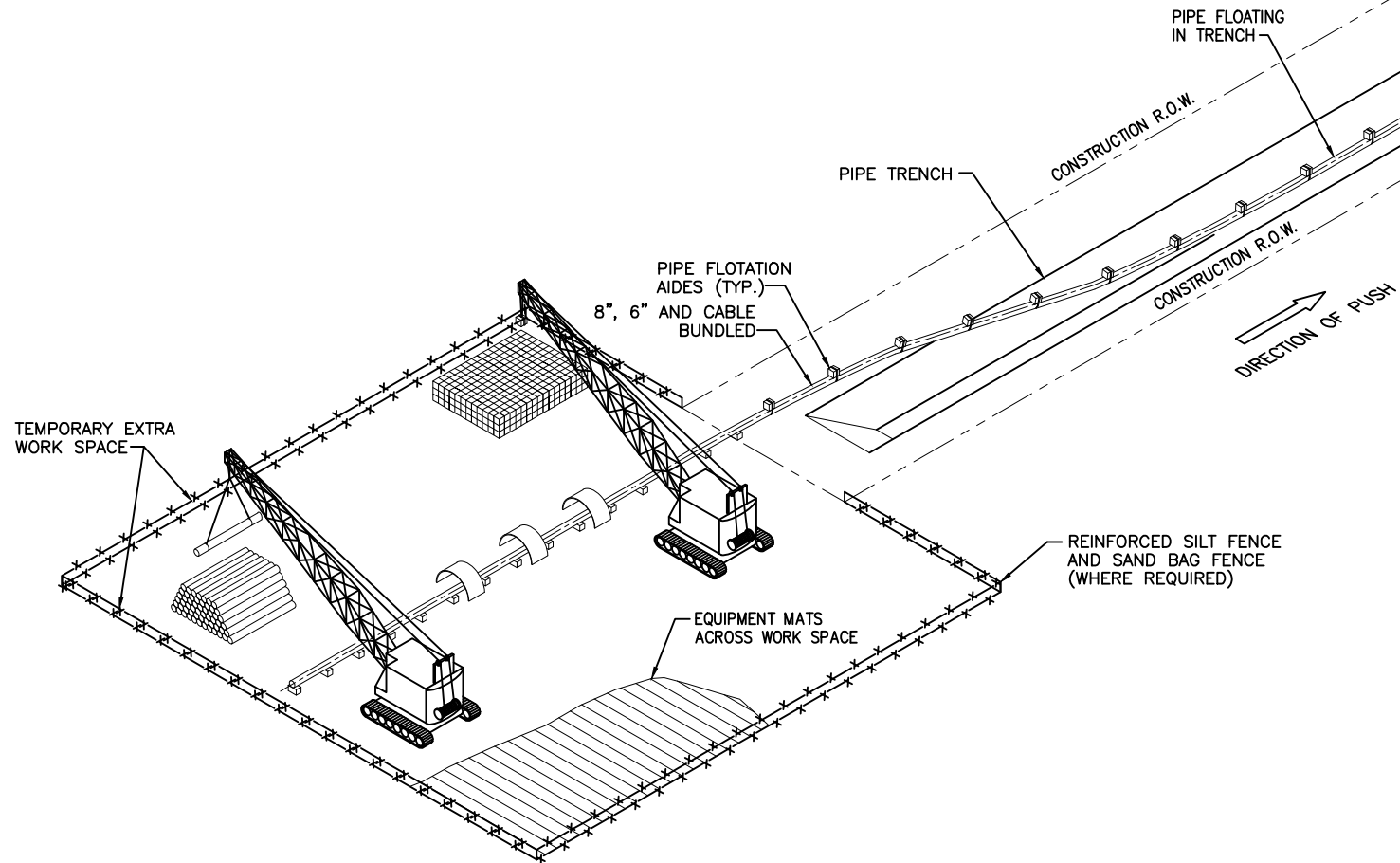
JUPITER PIPELINE
 ST. JAMES CANAL #2 HDD
 PLAN & PROFILE

DRAWN BY: PCS CHK'D. BY: PCS

DATE: 12-2-23 APPRV. BY: PCS

DWG. NO. OXY-0008


REV A

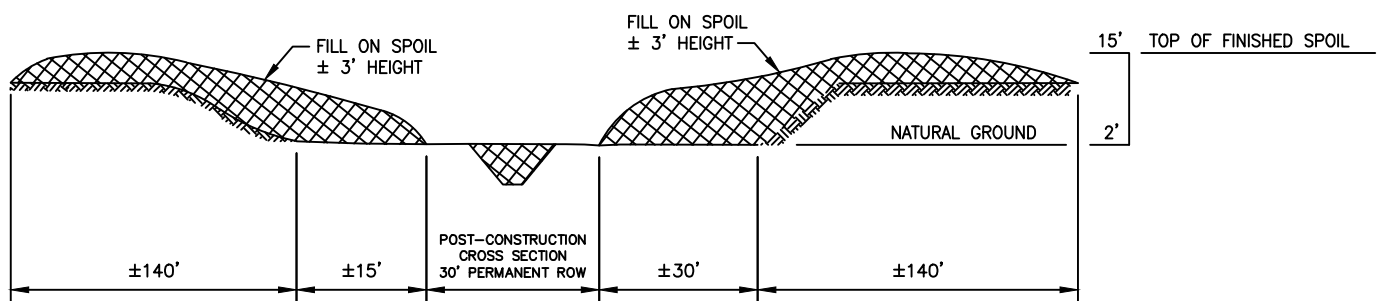
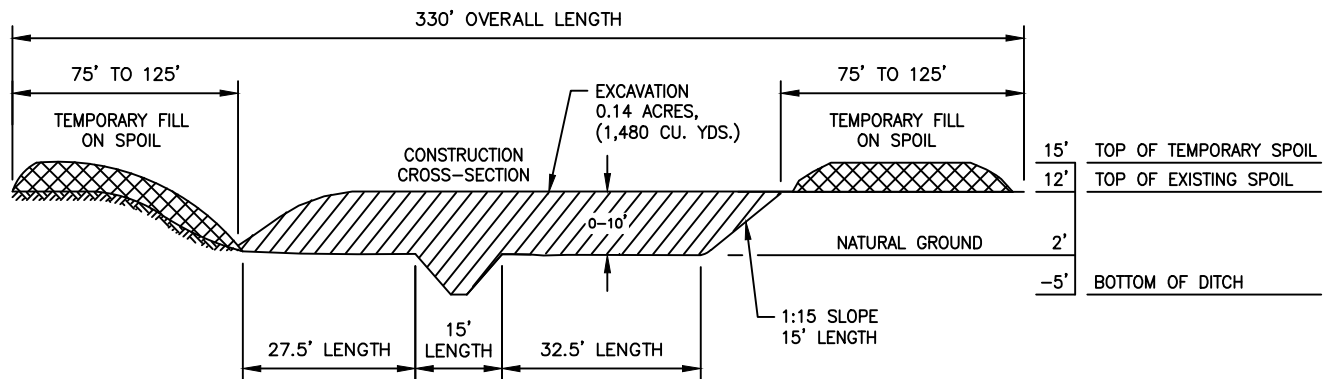
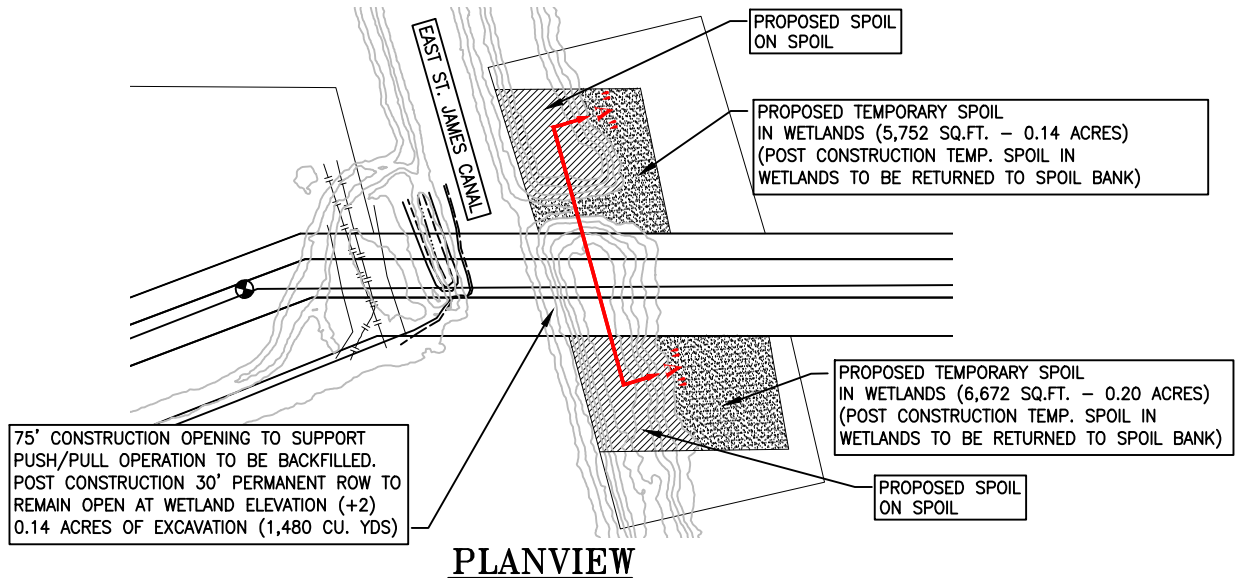


PLAN

DRAWING CONDENSED FOR ILLUSTRATIVE PURPOSES
(NOT TO SCALE)

NOTE:
SEE SHEET 10 FOR PUSH SITE DIMENSIONS.

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TYPICAL CONSTRUCTION PUSH SITE	
DRAWN BY: PCS	CHK'D. BY: PCS
DATE: 12-01-23	APPRV. BY: PCS
DWG. NO. OXY-0009	REV A



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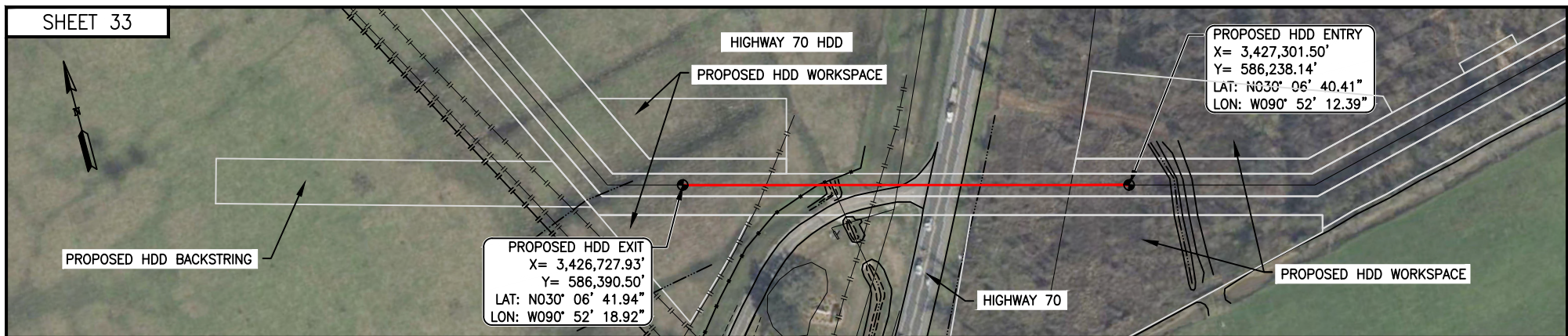
**TYPICAL CONSTRUCTION
SPOIL CUT DETAIL
PLAN AND PROFILE**

DRAWN BY: PCS CHK'D. BY: PCS

DATE: 12-07-23 APPRV. BY: PCS

DWG. NO. OXY-0010

REV
A

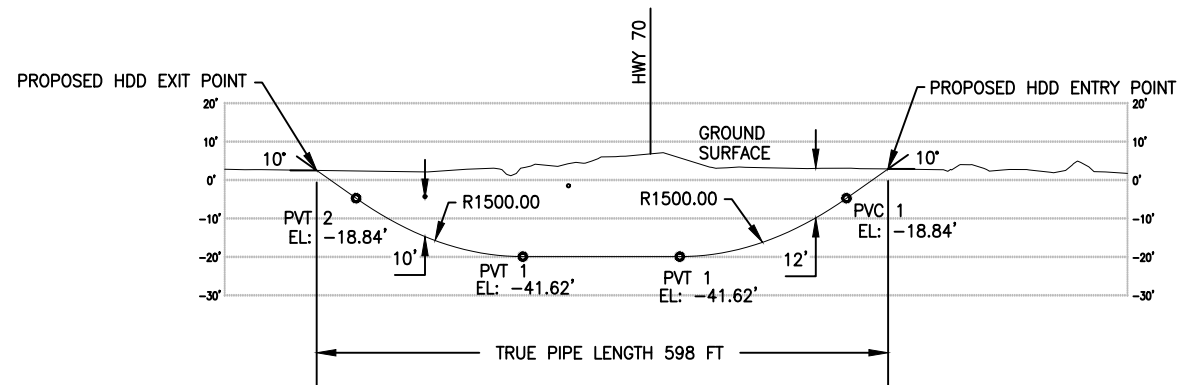


PROPOSED HDD EXIT
 X= 3,426,727.93'
 Y= 586,390.50'
 LAT: N030° 06' 41.94"
 LON: W090° 52' 18.92"

PROPOSED HDD ENTRY
 X= 3,427,301.50'
 Y= 586,238.14'
 LAT: N030° 06' 40.41"
 LON: W090° 52' 12.39"

PLAN

200 0 200
 SCALE IN FEET



PROFILE

200 0 200
 HORIZONTAL SCALE IN FEET
 50 0 50
 VERTICAL SCALE IN FEET

DIRECTIONAL DRILL DATA 6 & 8 INCH HIGHWAY 70 HDD		
DESCRIPTION	STATION (FT)	ELEVATION (FT)
ENTRY @ 10°	0+00	3.03
PVC1 (10.00° @ 1,000 FT R.)	0+43	-4.61
PVT1	2+17	-19.82
PVC2 (10.00° @ 1,000 FT R.)	3+80	-19.82
PVT2	5+54	-4.61
EXIT @ 10°	5+95	2.32
HORIZONTAL DISTANCE = 595 FT		
DIRECT DRILL PIPE LENGTH = 598 FT		



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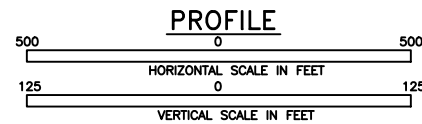
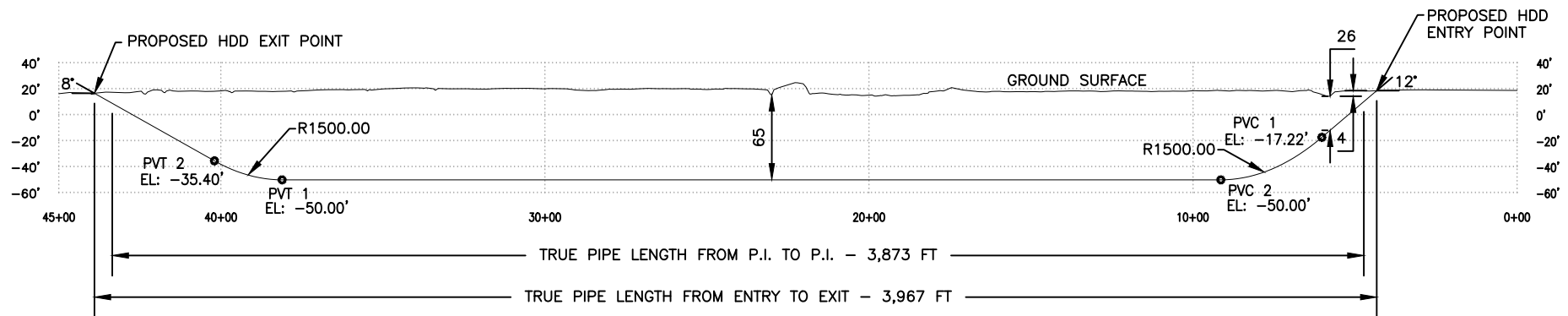
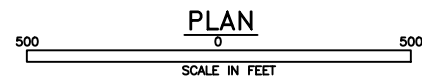
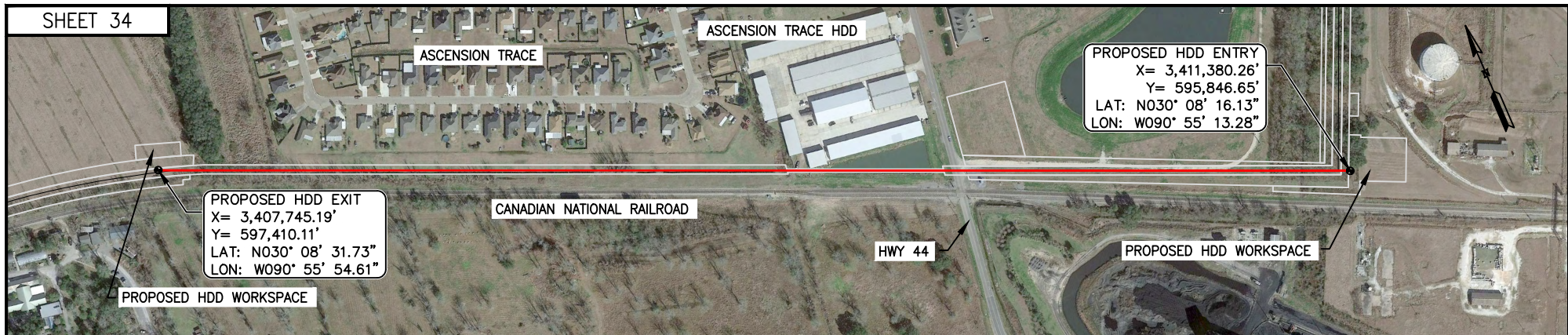
JUPITER PIPELINE
 HIGHWAY 70 HDD
 PLAN & PROFILE

DRAWN BY: PCS CHK'D. BY: PCS

DATE: 12-2-23 APPRV. BY: PCS

DWG. NO. OXY-0011

REV
A



DIRECTIONAL DRILL DATA 6 & 8 INCH ASCENSION TRACE HDD		
DESCRIPTION	STATION (FT)	ELEVATION (FT)
ENTRY @ 12" (P.I.)	4+72	10.15
PVC1 (12.00' @ 1,500 FT R.)	6+03	-17.22
PVT1	9+14	-50.00
PVC2 (8.00' @ 1,500 FT R.)	38+11	-50.00
PVT2	40+20	-35.40
EXIT @ 8" (P.I.)	43+35	17+46
HORIZONTAL DISTANCE = 3,862 FT		
DIRECT DRILL PIPE LENGTH = 3,873 FT		

NOTE: REFERENCE DRAWING - PCS HDD DRAWING, 21161_HDD-08-PER, REV A, 3/18/24.



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**JUPITER PIPELINE
ASCENSION TRACE HDD
PLAN & PROFILE**

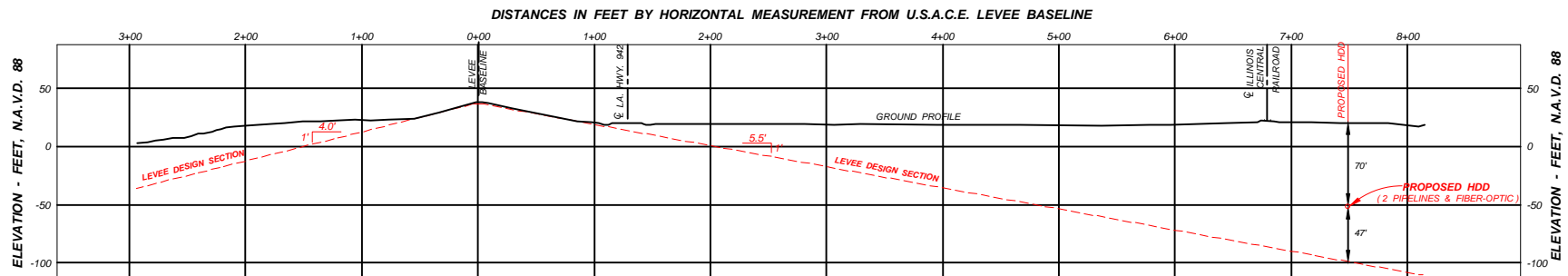
DRAWN BY: PCS CHK'D. BY: PCS

DATE: 12-2-23 APPRV. BY: PCS

DWG. NO. OXY-0012

REV
B

MISSISSIPPI RIVER LEVEE THEORETICAL PROFILE



B-B' CROSS SECTION

1" = 150' HORIZ.
1" = 150' VERT.

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TYPICAL CONSTRUCTION MISSISSIPPI RIVER LEVEE THEORETICAL PROFILE	
DRAWN BY: PCS	CHK'D. BY: PCS
DATE: 12-01-23	APPRV. BY: PCS
DWG. NO. OXY-0013	REV A

PROPOSED HDD EXIT
 X= 3,400,411.37'
 Y= 603,438.69'
 LAT: N030° 09' 31.66"
 LON: W090° 57' 17.91"

BAYOU CONWAY HDD

PROPOSED HDD ENTRY
 X= 3,401,011.68'
 Y= 602,748.51'
 LAT: N030° 09' 24.80"
 LON: W090° 57' 11.10"

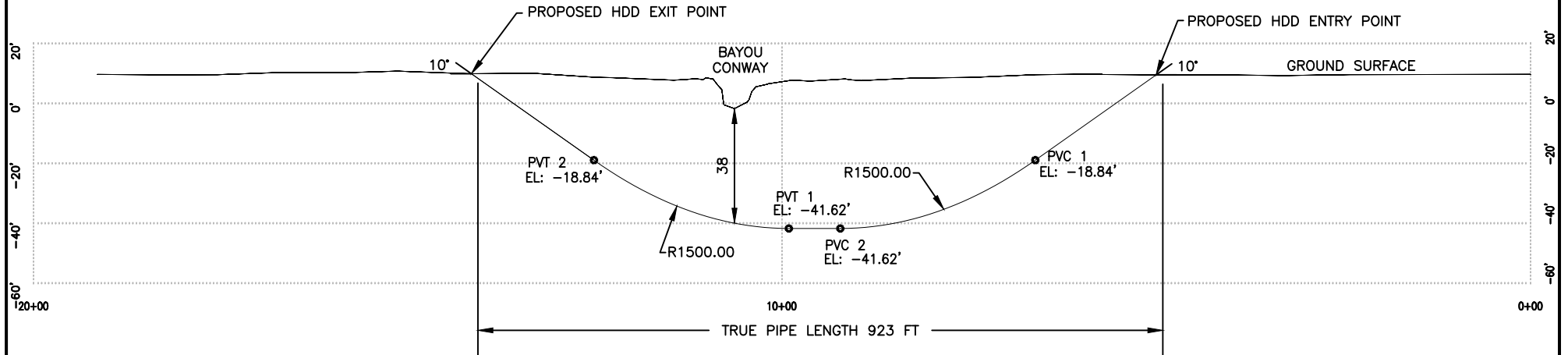
PROPOSED HDD WORKSPACE

BAYOU CONWAY

PROPOSED HDD WORKSPACE

PLAN

200 0 200
 SCALE IN FEET



PROFILE

200 0 200
 HORIZONTAL SCALE IN FEET
 50 0 50
 VERTICAL SCALE IN FEET

DIRECTIONAL DRILL DATA 6 & 8 INCH BAYOU CONWAY HDD		
DESCRIPTION	STATION (FT)	ELEVATION (FT)
ENTRY @ 10°	5+00	9.67
PVC1 (10.00° @ 1,500 FT R.)	6+62	-18.84
PVT1	9+22	-42.62
PVC2 (10.00° @ 1,500 FT R.)	9+91	-42.62
PVT2	12+51	-18.84
EXIT @ 10°	14+15	10.02
HORIZONTAL DISTANCE = 915 FT		
DIRECT DRILL PIPE LENGTH = 923 FT		

NOTE: REFERENCE DRAWING - PCS HDD DRAWING, 21161_HDD-06 OPTION 2, REV A, 8/11/23.



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JUPITER PIPELINE
 BAYOU CONWAY HDD
 PLAN & PROFILE

DRAWN BY: PCS

CHK'D. BY: PCS

DATE: 12-2-23

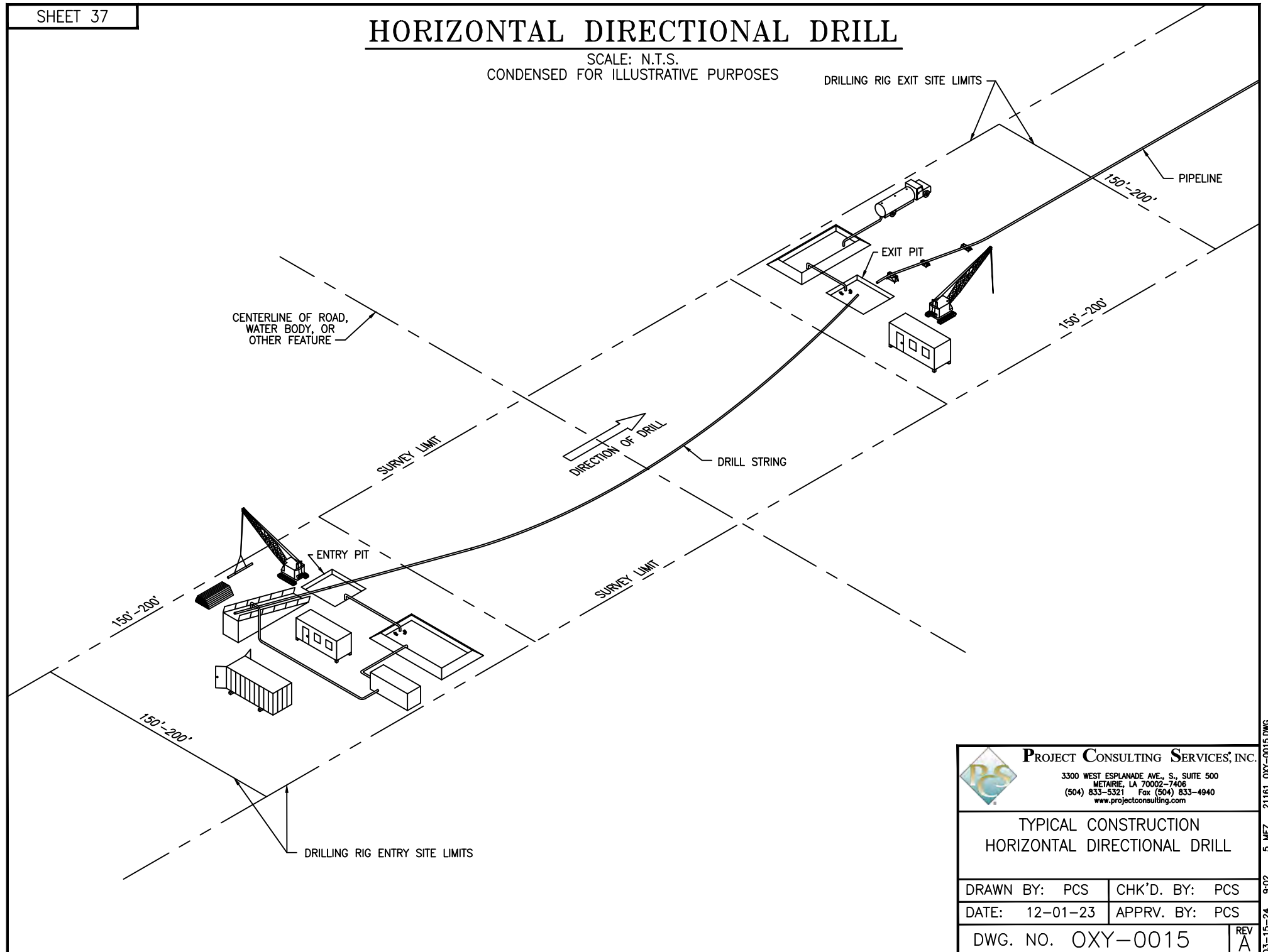
APPRV. BY: PCS

DWG. NO. OXY-0014

REV
A

HORIZONTAL DIRECTIONAL DRILL

SCALE: N.T.S.
CONDENSED FOR ILLUSTRATIVE PURPOSES



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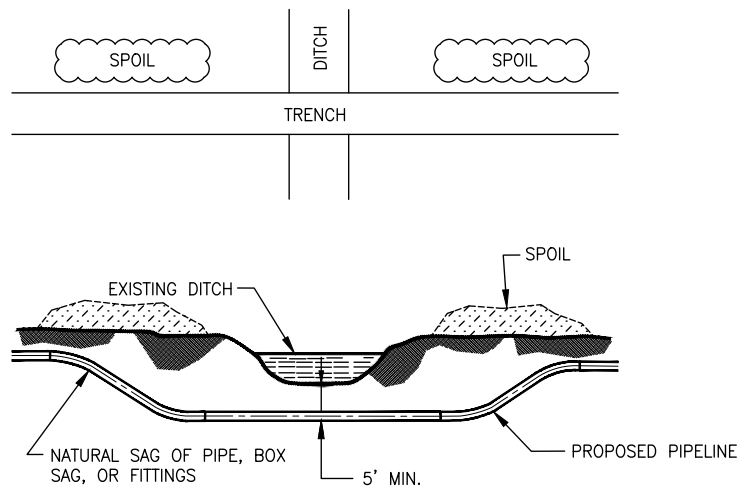
TYPICAL CONSTRUCTION HORIZONTAL DIRECTIONAL DRILL

DRAWN BY: PCS | CHK'D. BY: PCS

DATE: 12-01-23 | APPRV. BY: PCS

DWG. NO. OXY-0015

REV
A

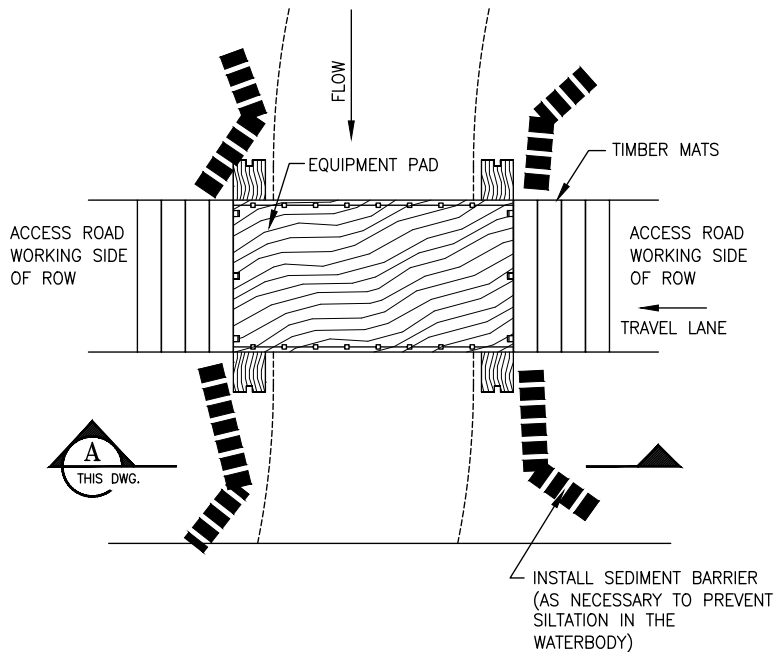


TYPICAL CANAL/DITCH CROSSING

NOT TO SCALE

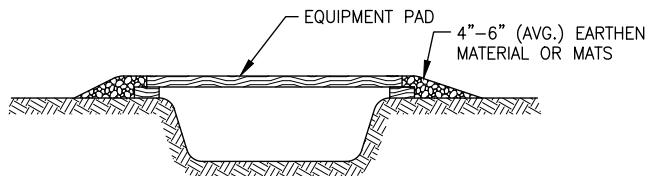
NOTES:

- CROSSING INSTALLATION SHALL BE IN ACCORDANCE WITH APPLICABLE ASCENSION AND ST. JAMES PARISH REQUIREMENTS.



PLAN

SCALE: NOT TO SCALE



SECTION

SCALE: NOT TO SCALE



SPOIL

TYPICAL ACCESS ROAD EQUIP. BRIDGE

NOT TO SCALE

NOTES:

- TEMPORARY SEDIMENT BARRIER OF SILT FENCE AND/OR STRAW BALES, OR OTHER APPROPRIATE MATERIALS AS NEEDED.
- EQUIPMENT PAD TYPICALLY CONSTRUCTED OF HARDWOOD TIMBER MATS; MUST ACCOMMODATE THE LARGEST EQUIPMENT USED. LARGER DRAINAGE FEATURES MAY REQUIRE RAIL CAR BED.
- CONSTRUCT BRIDGE TO PREVENT SOIL FROM ENTERING WATERBODY.

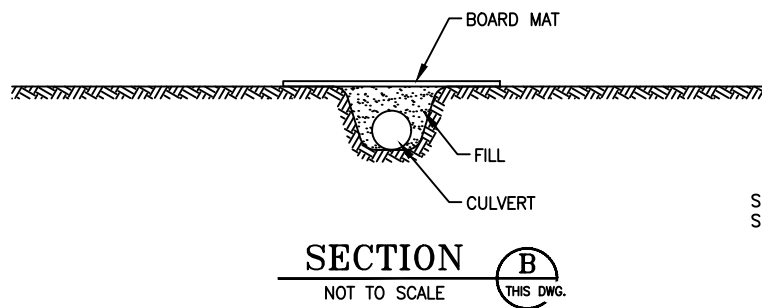
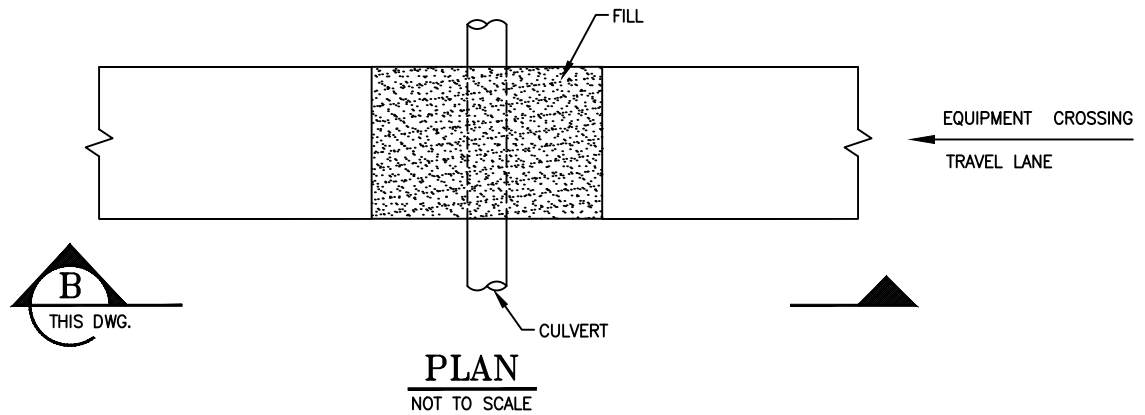
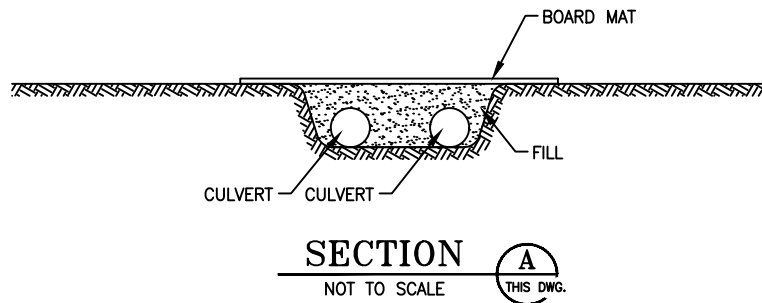
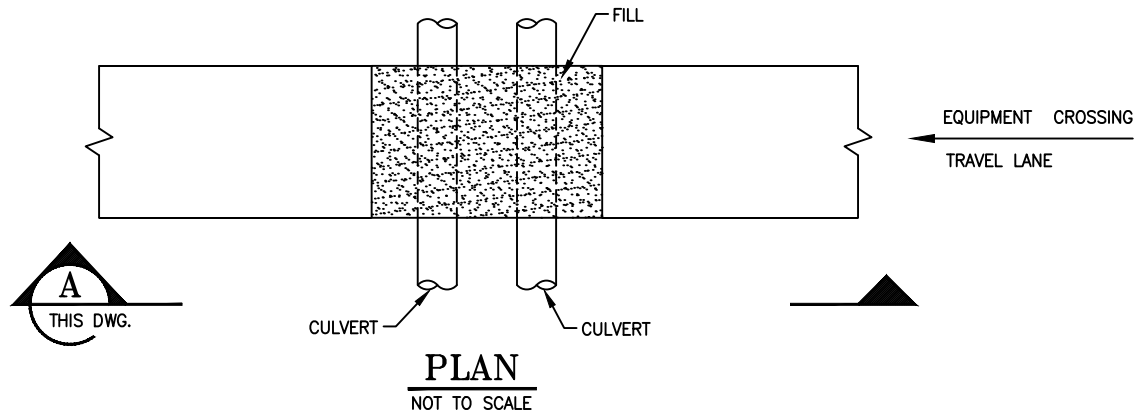


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TYPICAL CONSTRUCTION PIPELINE CANAL CROSSING ACCESS ROAD EQUIP. BRIDGE

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DATE: 12-01-23	APPRV. BY: PCS
DWG. NO. OXY-0017	REV A



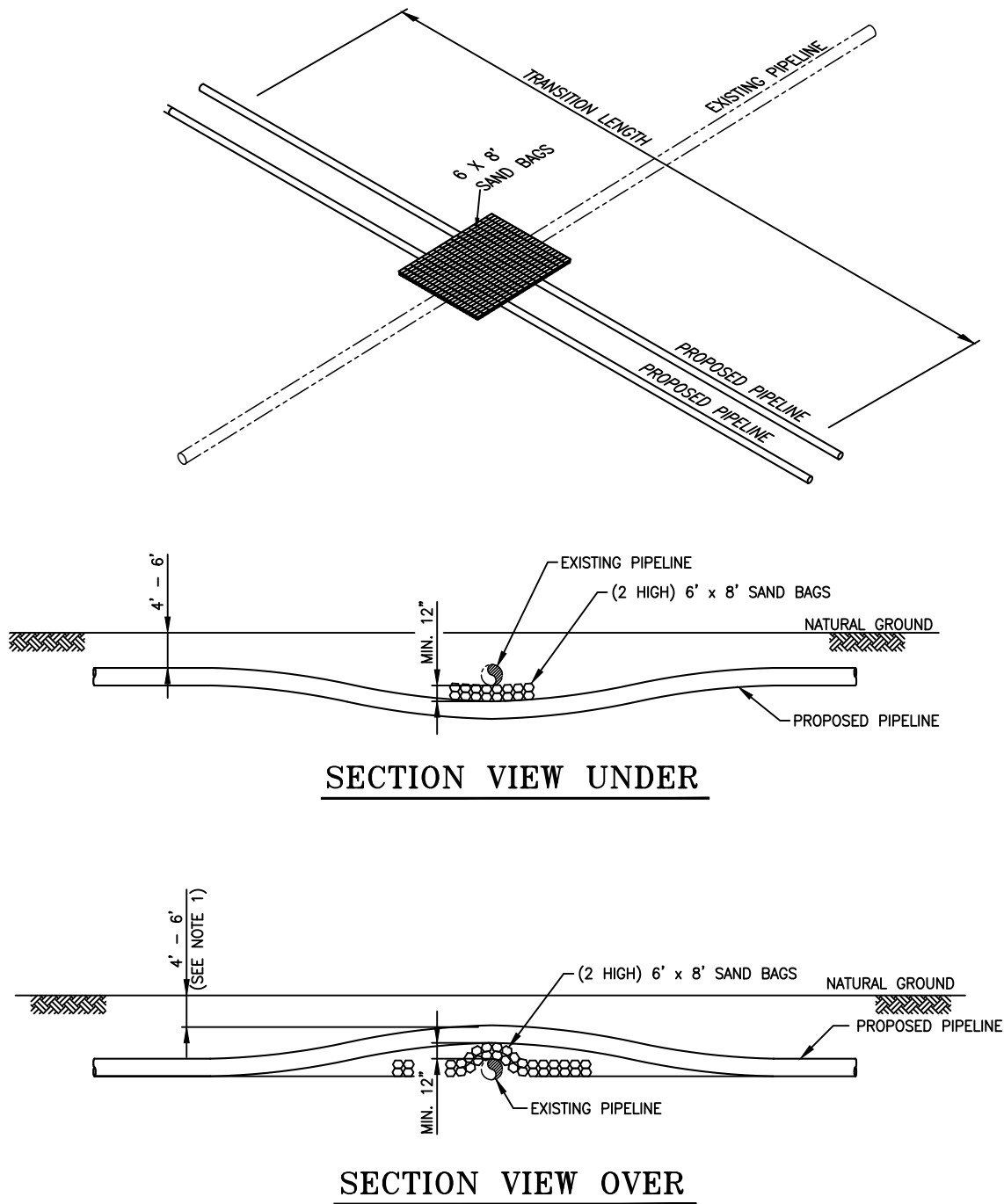
SEE SHEET 45 FOR THE CULVERT
SIZE AND FILL VOLUME TABLE.

NOTES:

1. SIZE AND NUMBER OF CULVERTS ARE DEPENDENT OF DITCH DIMENSIONS.
2. ADDITIONAL EQUIPMENT PADS CAN BE PUT SIDE BY SIDE IF EXTRA WIDTH IS REQUIRED.


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TYPICAL CONSTRUCTION EQUIPMENT BRIDGE (MATS & CULVERTS)	
DRAWN BY: PCS	CHK'D. BY: PCS
DATE: 12-01-23	APPRV. BY: PCS
DWG. NO. OXY-0018	
REV A	

TYP. PIPELINE CROSSING EXISTING PIPELINE



NOTES:

1. SAND BAGS WILL BE USED TO ACHIEVE 18 INCH SEPERATION BETWEEN PIPELINES.
2. TOTAL OF 5 PIPELINE CROSSINGS - 2 YARDS OF MATERIAL PER CROSSING FOR 10 TOTAL YARDS OF SAND BAGS.

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TYPICAL PIPELINE CROSSING UNDER & OVER EXISTING PIPELINE	
DRAWN BY: PCS	CHK'D. BY: PCS
DATE: 12-01-23	APPRV. BY: PCS
DWG. NO. OXY-0019	
REV A	

Points	RouteID	NAD83 X	NAD83 Y	NAD83 Lat	NAD83 Long
1	6" and 8"	3440576.725	567447.6973	30.05940477	-90.82836334
2	6" and 8"	3440771.559	567544.8909	30.05966969	-90.8277461
3	6" and 8"	3440595.434	567898.6908	30.06064468	-90.82829792
4	6" and 8"	3440646.175	568129.4808	30.06127844	-90.8281343
5	6" and 8"	3439622.655	570039.965	30.06654442	-90.83134334
6	6" and 8"	3439639.017	570214.9322	30.06702534	-90.8312892
7	6" and 8"	3440255.1	570644.8605	30.0687001	-90.82933557
8	6" and 8"	3440516.352	571342.3082	30.07011475	-90.82849995
9	6" and 8"	3441112.991	571831.0251	30.07145136	-90.82660688
10	6" and 8"	3441108.691	571880.9256	30.07158862	-90.82661978
11	6" and 8"	3441114.34	571920.6552	30.0716978	-90.82660136
12	6" and 8"	3441787.735	572456.4307	30.07316284	-90.82446491
13	6" and 8"	3441895.133	572447.5718	30.07313717	-90.8241255
14	6" and 8"	3441904.445	572454.1626	30.07315518	-90.82409678
15	6" and 8"	3442275.999	573509.5851	30.07604724	-90.8199445
16	6" and 8"	3442226.366	574904.222	30.07988829	-90.82304371
17	6" and 8"	3442008.683	575187.1306	30.08066888	-90.82377799
18	6" and 8"	3441691.443	575543.473	30.08165261	-90.82472603
19	6" and 8"	3441089.315	576132.2324	30.08327888	-90.8266216
20	6" and 8"	3444757.458	579601.6834	30.09277387	-90.81497419
21	6" and 8"	3443565.724	580354.3534	30.09540823	-90.81872878
22	6" and 8"	3442571.857	581517.2426	30.09806816	-90.82185803
23	6" and 8"	3441705.492	582378.0342	30.10044572	-90.82458567
24	6" and 8"	3441555.358	582500.7226	30.10078491	-90.82505873
25	6" and 8"	3437181.677	584844.234	30.10728157	-90.8388581
26	6" and 8"	3437061.672	584898.5511	30.10743235	-90.83923689
27	6" and 8"	3433551.205	586216.3844	30.1110972	-90.85032158
28	6" and 8"	3433450.827	586248.1462	30.1111857	-90.85063863
29	6" and 8"	3433447.667	586269.1786	30.11124473	-90.85090467
30	6" and 8"	3429644.088	586691.4038	30.11244809	-90.86267259
31	6" and 8"	3427541.932	586172.8055	30.11104565	-90.86937789
32	6" and 8"	3426632.714	586414.8017	30.11122117	-90.87270042
33	6" and 8"	3426095.508	587533.6466	30.11480363	-90.87388529
34	6" and 8"	3425712.337	588250.2672	30.11677837	-90.87508814
35	6" and 8"	3425038.882	589447.3573	30.12006369	-90.87770321
36	6" and 8"	3424940.34	589642.3307	30.12058714	-90.87751251
37	6" and 8"	3424850.937	589683.683	30.12072932	-90.87759465
38	6" and 8"	3424787.727	589783.720	30.12100512	-90.87790333

Points	RouteID	NAD83 X	NAD83 Y	NAD83 Lat	NAD83 Long
39	6" and 8"	3424587.163	590148.6066	30.12201062	-90.87867314
40	6" and 8"	3422572.785	593904.3323	30.13235968	-90.88494831
41	6" and 8"	3420421.249	597970.8396	30.14356443	-90.89170492
42	6" and 8"	3420128.536	598256.2639	30.14435236	-90.89262753
43	6" and 8"	3419393.289	599651.3607	30.14819627	-90.89493681
44	6" and 8"	3418785.516	600740.8131	30.15119746	-90.89700483
45	6" and 8"	3417035.471	600431.3662	30.15036564	-90.90238747
46	6" and 8"	3415888.607	608556.8046	30.14522292	-90.90603826
47	6" and 8"	3415851.467	598502.1079	30.1450779	-90.90615641
48	6" and 8"	3415806.599	598475.3124	30.14499968	-90.90629868
49	6" and 8"	3415713.729	598463.1674	30.14496724	-90.90659264
50	6" and 8"	3415592.458	598480.2385	30.14501542	-90.90697612
51	6" and 8"	3412931.716	599125.814	30.14681753	-90.91538677
52	6" and 8"	3412031.244	597084.8191	30.14121436	-90.91825915
53	6" and 8"	3411806.018	596926.7393	30.14078192	-90.9189735
54	6" and 8"	3411344.786	595862.7631	30.13786086	-90.92044482
55	6" and 8"	3407735.901	597386.7798	30.14208617	-90.93165515
56	6" and 8"	3407544.284	597453.9607	30.14277332	-90.93245045
57	6" and 8"	3407260.936	597506.8192	30.14242139	-90.93334631
58	6" and 8"	3406937.251	597533.9051	30.14249897	-90.93437006
59	6" and 8"	3406512.663	597543.809	30.14253027	-90.93571324
60	6" and 8"	3406317.635	597556.9064	30.14256814	-90.93633012
61	6" and 8"	3406126.235	597581.7295	30.14263822	-90.93693538
62	6" and 8"	3405834.119	597634.1224	30.14278506	-90.93785899
63	6" and 8"	3405612.602	597703.0071	30.14297657	-90.93855907
64	6" and 8"	3405329.835	597862.1682	30.1434169	-90.93945194
65	6" and 8"	3404353.137	598898.2121	30.14627493	-90.94253081
66	6" and 8"	3397038.031	607319.0701	30.16949637	-90.9655893
67	6" and 8"	3395945.354	608570.6186	30.1729475	-90.9690346
68	Split	3395798.293	609278.8931	30.17490073	-90.9710911
69	6"	3394815.214	610729.1277	30.17889261	-90.97258966
70	6"	3394609.834	611496.0652	30.18100324	-90.97323204
71	6"	3394538.263	611634.7421	30.18138518	-90.97345718
72	6"	3393492.04	613137.6761	30.1855268	-90.97675365
73	6"	3393424.914	613090.9481	30.18539888	-90.97696658

Points	RouteID	NAD83 X	NAD83 Y	NAD83 Lat	NAD83 Long
1	Split	3395253.253	609278.8931	30.17490073	-90.9710911
2	8"	3395018.096	609551.317	30.1757622	-90.97195861
3	8"	3393257.239	611061.527	30.17981966	-90.97739063
4	8"	3393257.578	611096.8268	30.17961706	-90.97751581
5	8"	3392568.546	611713.006	30.18163889	-90.97969024
6	8"	3392515.062	611756.0279	30.18173599	-90.97965939
7	8"	3392459.887	611800.1289	30.18165773	-90.98003558
8	8"	3392403.189	611842.2538	30.18157404	-90.98021262
9	8"	3392345.039	611882.3508	30.18208479	-90.98039628
10	8"	3392285.509	611926.3681	30.18219583	-90.98058432
11	8"	3390511.939	612948.038	30.18502968	-90.98587132
12	8"	3390542.526	613184.8855	30.18568068	-90.98577192



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TYPICAL CONSTRUCTION CHLORINE EDC ROUTE VERTICES

DRAWN BY: PCS

CHK'D. BY: PCS

DATE: 12-01-23

APPRV. BY: PCS

DWG. NO. OXY-0019A

REV
B

St. James Parish Wetlands - Coastal Zone (CZ)					
Name	Type	Class	Total Acres Impacted	Temporary Construction ROW ^{1&2}	Permanent ROW ³
SJ W-1	Herbaceous Bottomland Hardwood	PEM1C PFO1A	0.13 0.54	0.13 0.53	0.0 0.01
SJ W-2	Herbaceous Bottomland Hardwood Cypress Tupelo Swamp	PEM1C PFO1A PFO2F	0.71 5.14 4.76	0.71 3.41 3.40	0.0 1.73 1.36
SJ W-3	Herbaceous Bottomland Hardwood Cypress Tupelo Swamp Scrub Shrub Swamp	PEM1A PFO1A PFO2F PFO2/1F	0.40 10.04 17.60 0.0	0.40 6.34 10.06 0.0	0.0 3.7 7.54 0.0
SJ W-4	Bottomland Hardwood Scrub Shrub	PFO6Ch (PEM1Ch) PSS6(PEM1Ch)	6.54 1.70	5.05 1.51	1.49 0.19
SJ W-5	Herbaceous	PEM1C	7.06	7.06	0.0
Total Impacts:		Herbaceous (PEM1A and PEM1C)	8.30	8.30	0.0
		Scrub Shrub (PSS6)	1.70	1.51	0.19
		Bottomland Hardwood (PFO1A and PFO6Ch)	22.26	15.33	6.93
		Cypress Tupelo Swamp (PFO2F)	22.36	13.46	8.9
		Scrub Shrub Swamp (PFO2/1F)	0.0	0.0	0.0

¹The Temporary Fill acreage includes the proposed board mat acreage.

²Impacts outside of the 30- ft. Permanent ROW will be allowed to re-vegetate.

³Impacts within the maintained 30-ft. Permanent ROW

St. James Parish Waters - Coastal Zone (CZ)			
Name	Type	Class	Temporary Trenching Impacts (Acres)
W-1a	Other Waters	R5UBx	--
W-1b	Other Waters	R5UBFx	--
W-1c	Romeville Canal	R5UBFx	--
W-2	Other Waters	R5UBFx	0.04
W-3	Other Waters	R5UBFx	0.03
W-4	Other Waters	R5UBFx	0.03
W-5 SJC	East St James Canal	R2UBHx	--
W-6	Other Waters	R2UBHx	0.03
W-5 SJC	East St James Canal	R2UBHx	--
W-7	Other Waters	R2UBHx	--
Total Trenching Impacts:		Other Waters	0.13



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METairie, LA 70002-7406
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ENVIRONMENTAL TABLES
ST. JAMES PARISH

DRAWN BY: PCS CHK'D. BY: PCS

DATE: 12-01-23 APPRV. BY: PCS


DWG. NO. OXY-0020

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Ascension Parish Wetlands (Outside Coastal Zone - OCZ)					
Name	Type	Class	Total Acres Impacted	Temporary Impacts*	Permanent Conversion
ASC W-1	Herbaceous Wetland Bottomland Hardwood	PEM1C	1.60	1.60	0.0
		PFO1C	1.66	1.00	0.66
ASC W-2	Herbaceous Wetland	PEM1C	2.37	2.37	0.0
ASC W-3	Bottomland Hardwood	PFO1A	0.07	0.06	0.01
ASC W-4	Bottomland Hardwood	PFO1A	0.05	0.05	0.00
ASC W-5	Herbaceous Wetland Bottomland Hardwood	PEM1C	0.26	0.26	0.0
		PFO1A	0.18	0.18	0.00
ASC W-6	Herbaceous Wetland Bottomland Hardwood	PEM1C	2.18	2.18	0.0
		PFO1A	1.78	0.73	1.05
ASC W-7	Herbaceous Wetland Bottomland Hardwood	PEM1C	1.69	1.69	0.0
		PFO1A	1.37	0.69	0.68
ASC W-8	Herbaceous Wetland Bottomland Hardwood	PEM1C	4.39	4.39	0.0
		PFO1A	6.60	2.61	3.99
ASC W-9	Bottomland Hardwood	PFO1A	1.34	0.85	0.49
ASC W-10	Bottomland Hardwood	PFO1A	2.41	1.41	1.00
ASC W-11	Herbaceous Wetland	PEM1C	0.08	0.08	0.0
ASC W-12	Herbaceous Wetland	PEM1C	0.19	0.19	0.0
ASC W-13	Herbaceous Wetland	PEM1C	0.05	0.05	0.0
ASC W-14	Herbaceous Wetland	PEM1A	0.00	NI	0.0
ASC W-15	Herbaceous Wetland	PEM1A	0.00	NI	0.0
ASC W-16	Herbaceous Wetland	PEM1A	0.00	NI	0.0
ASC W-17	Herbaceous Wetland	PEM1A	0.00	NI	0.0
ASC W-18	Herbaceous Wetland	PEM1A	0.00	NI	0.0
Total Impacts:					
Herbaceous (PEM1A, PEM1C)			12.81	12.81	0.0
Bottomland Hardwood (PFO1A, PFO1C)			15.46	7.58	7.88

* The Temporary Fill acreage includes the proposed board mat acreage.

Ascension Parish Waters (Outside Coastal Zone - OCZ)			
Name	Type	Class	Temporary Trenching Impacts (Acres)
W-8	Other Waters	R5UBFx	0.05
W-9	Other Waters	R5UBFx	0.04
W-10	Other Waters	R5UBFx	0.05
W-11	Other Waters	R5UBFx	--
W-12	Other Waters	R5UBFx	--
W-13	Other Waters	R5UBFx	--
W-14	Other Waters	R5UBFx	0.02
W-15	Other Waters	R5UBFx	--
W-15a	Other Waters	R5UBFx	0.02
W-15b	Other Waters	R5UBFx	0.02
W-15c	Other Waters	R5UBFx	0.03
Open Water 1	Pond	L1UBx	--
W-16	Other Waters	R5UBFx	0.02
Open Water 2	Pond	L1UBx	--
W-17a	Other Waters	R5UBFx	--
W-17b	Other Waters	R5UBFx	0.01
W-18	Other Waters	R5UBFx	0.02
W-19	Other Waters	R5UBFx	0.04
W-20 Conway	Other Waters	R2UBH	--
W-21	Other Waters	R5UBJ	--
W-22	Other Waters	R5UBFx	0.03
W-23	Other Waters	R4SBC	--
Open Water 3	Pond	L1UBx	0.06
Open Water 4	Pond	L1UBx	0.01
W-24	Other Waters	R4SBC	0.04
W-24a	Other Waters	R4SBC	0.02
W-25 Smith Bayou	Smith Bayou	R5UBFx	--
W-26	Other Waters	R5UBFx	--
W-27	Other Waters	R4SBC	0.04
W-28	Other Waters	R4SBC	0.01
Open Water 5	Other Waters	L1UBx	0.02
W-29	Other Waters	R4SBC	0.03
W-30	Other Waters	R4SBC	0.03
W-31	Other Waters	R4SBC	0.02
W-32	Other Waters	R4SBC	0.02
W-33	Other Waters	R4SBC	0.03
Open Water 6	Pond	L1UBh	--
Total Trenching Impacts:			0.68

 PROJECT CONSULTING SERVICES, INC. 3300 WEST ESPLANADE AVE., S., SUITE 500 METAIRIE, LA 70002-7406 (504) 833-5321 Fax (504) 833-4940 www.projectconsulting.com		ENVIRONMENTAL TABLES	
		ASCENSION PARISH	
DRAWN BY: PCS		CHK'D. BY: PCS	
DATE: 12-01-23		APPRV. BY: PCS	
DWG. NO. OXY-0021			REV B

Trenching Footages and Volumes

Location	Type	Linear Footage	Volume (cu./yds)
Co-Located (6" & 8") Coastal Zone (CZ)	Upland	10,085	28,648
	Herb. Wetlands	2,109	5,991
	Forested Wetlands	22,879	64,993
	Other Waters	75	213
	SubTotal:	35,148	99,845
*Outside Coastal Zone (OCZ)	Upland	25,805	73,305
	Herb. Wetlands	1,949	5,537
	Forested Wetlands	11,596	32,941
	Other Waters	352	1,000
	SubTotal:	39,702	112,783
Total:		74,850	212,628

**Includes Co-Located and separate Chlorine and EDC ROW after split cubic yardage calculated based on a 5' trench bottom width and a 15' trench top width or 76.7 sq. feet per linear foot*

Horizontal Directional Drilling and Bore Lengths

Location	Type	Linear Footage
Coastal Zone (CZ)	HDD	±5,229
Outside Coastal Zone (OCZ)	HDD/Bore	±15,975
Project Total:		±21,204

Total Project Excavation Volumes cu. yds:

212,628 (Total Trenching) + 1,480 (St. James Canal Spoil Cut Area) = 214,108 cu. yds

Total Project Excavation Acreage:

(74,850 linear feet x 15' wide) / 43560 sq. ft./acre = 25.77 acres.

St. James Canal Spoil Cut Area = 0.14 acres

Total Excavation Acreage – 25.91 acres

Total Project Fill Volumes cu. yds:

212,628 + 1,480 (Spoil Cut Area) + 1089 (culvert fill) + 10 (sand bags) = 215,207 cu. yds

Total Project Fill Acreages:

74,850 linear feet x 16' wide (avg. of 12' and 20' wide spoil) / 43560 sq. ft./acre = 27.49 acres.


St. James Canal Spoil Cut Area temp fill in wetlands = 0.34 acres

Total Fill Acreage – 27.83 acres

Temporary Fill Acreage associated with Spoil in Wetlands

CZ – 9.52 Acres Total (Wetland Spoil Placement @ 16' wide + 0.34 acres of temporary fill in wetlands at St. James Canal Spoil Cut Area)

OCZ – 4.92 Acres Total

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DRAWN BY: PCS		CHK'D. BY: PCS	
DATE: 12-01-23		APPRV. BY: PCS	
DWG. NO. OXY-0022			REV B

Workspace ROW Lengths		
Location	ROW Width	Linear Footage
Coastal Zone (CZ)	100'	±9,620
	75'	±12,085
	80' East St. James Canal	±13,443
Outside Coastal Zone (OCZ)	100'	±13,645
	75'	±13,055
	75' Entergy Transmission	±13,050

Culvert Length and Fill Volumes			
Water	Culverts # and Size	Length	Fill Volume (yd)
St. James – (Coastal Zone - CZ)			
W-1b	2-36"	20	21.3
W-1C	2-36"	32	43.5
W-2	2-36"	34.5	81.4
W-4	4-24"	45	79.1
Ascension – (Outside Coastal Zone – OCZ)			
W-11	2-48"	50	204.5
W-15	2-48"	35	222.2
W-15D	1-36"	40	135.6
W-17A	1-36"	20	24.8
W-21	1-48"	34	225.7
W-22	2-24"	34	13.5
W-24	1-24"	98	17.6
W-24a	1-36"	30	19.8
Fill Total			1089
Total CZ			225.3



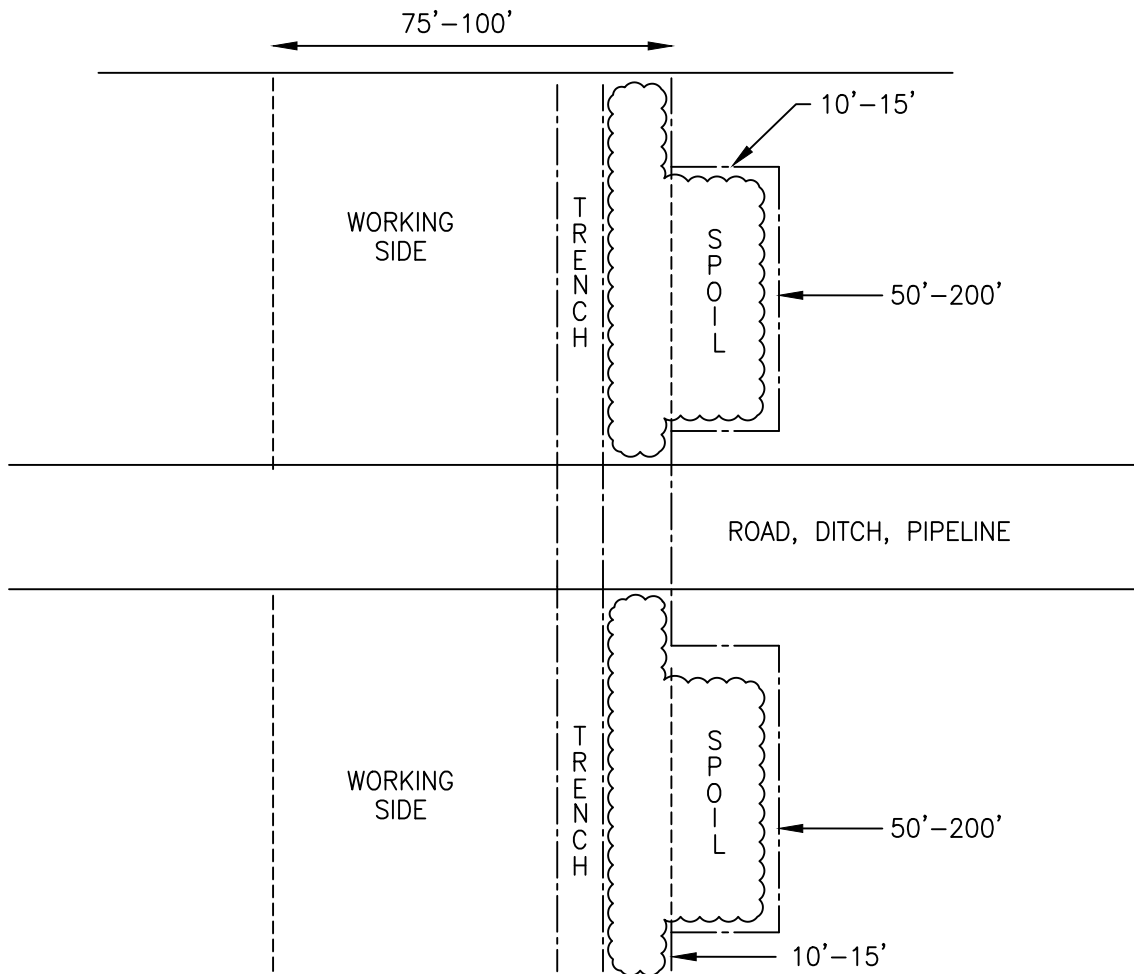
ENVIRONMENTAL TABLES
 ROW LENGTHS AND CULVERTS

DRAWN BY: PCS CHK'D. BY: PCS

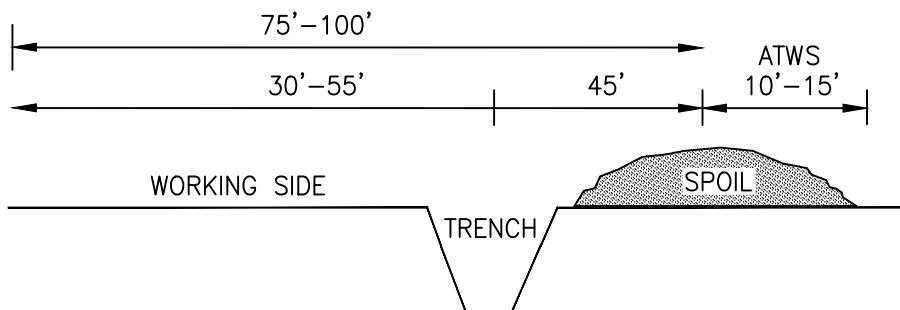
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DWG. NO. OXY-0023

REV
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ATWS TYPICAL
PLAN VIEW

ATWS PROFILE



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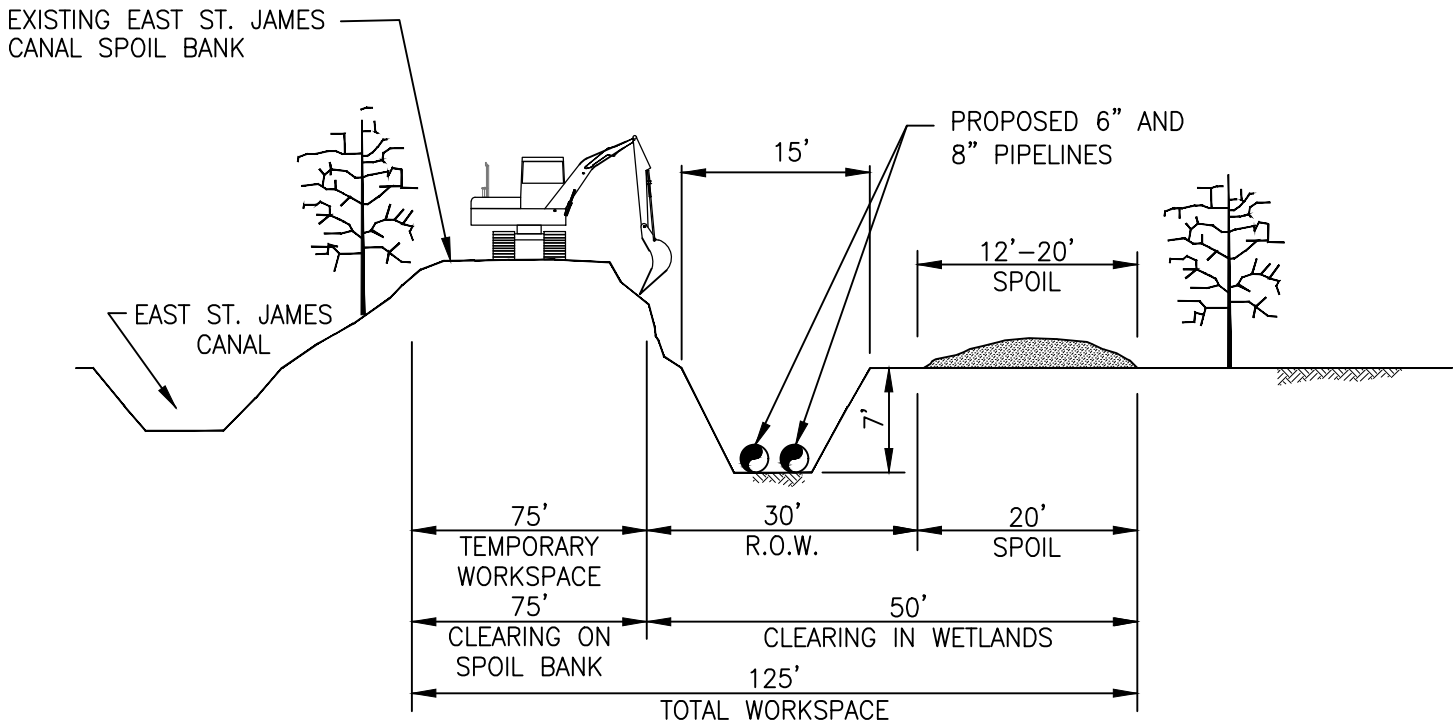
ATWS TYPICAL

DRAWN BY: PCS	CHK'D. BY: PCS
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DATE: 12/1/23	APPRV. BY: PCS
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DWG. NO. OXY-0025


REV A

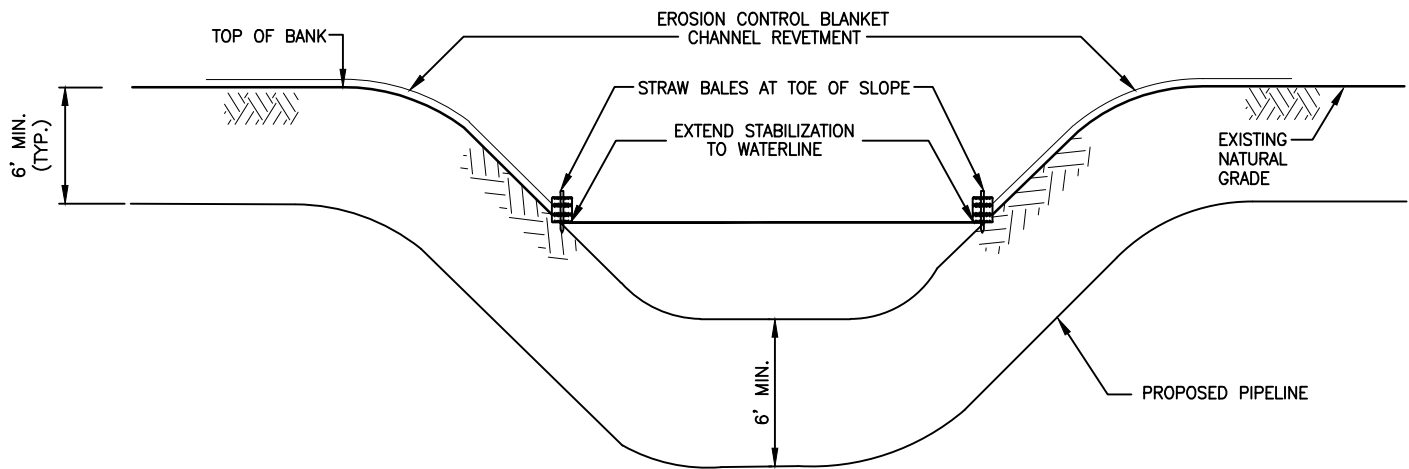


EAST ST. JAMES CANAL, LDWF SPOIL BANK CONSTRUCTION ROW
TYPICAL

NOTES:

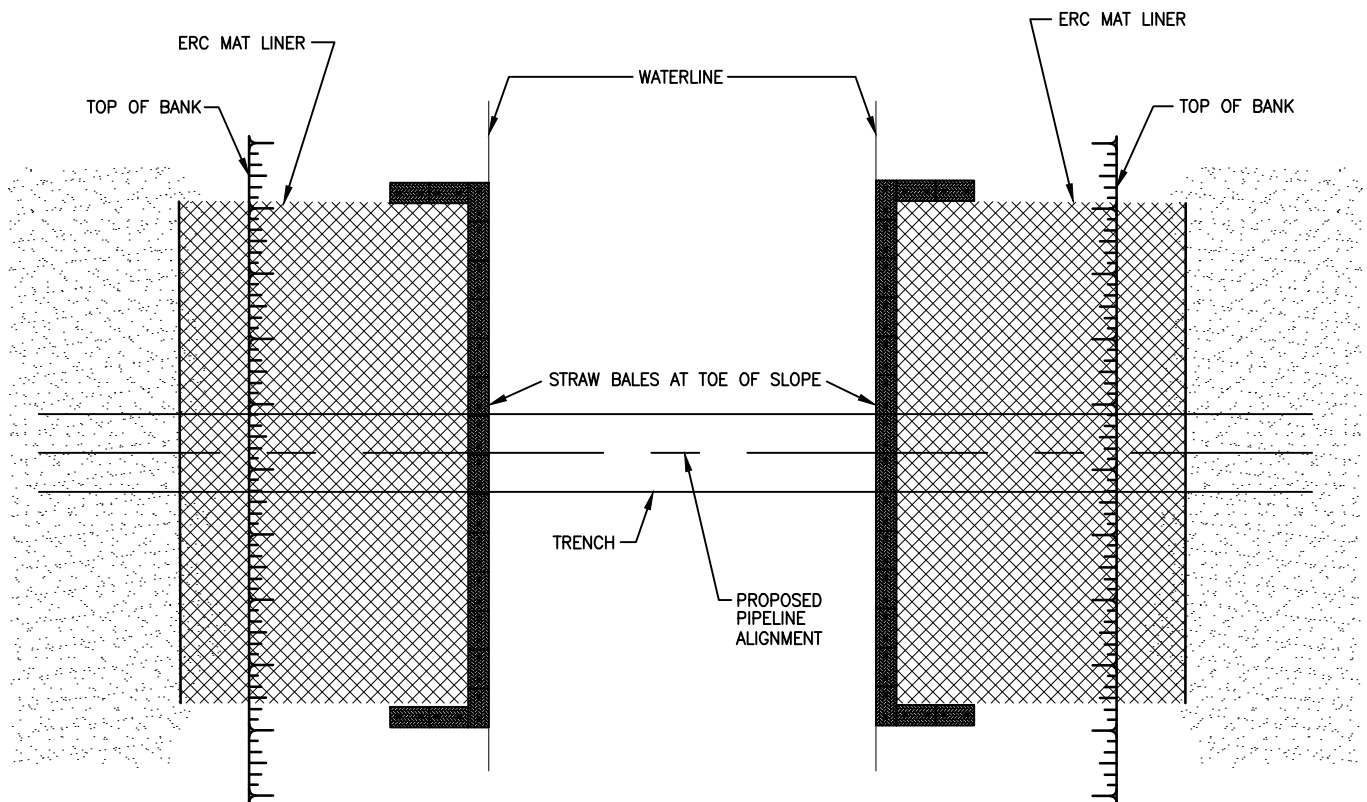
1. FLAG WETLAND BOUNDARIES PRIOR TO CLEARING.
2. RESTORE GRADE TO NEAR PRE-CONSTRUCTION TOPOGRAPHY.
3. UPON COMPLETION, THE SPOIL BANK IS TO BE REPLANTED WITH NATIVE TREE SPECIES, PER LDWF.

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DRAWN BY: PCS		CHK'D. BY: PCS	
DATE: 12/1/23		APPRV. BY: PCS	
DWG. NO. OXY-0026			REV A



PROFILE VIEW

SCALE: N.T.S.




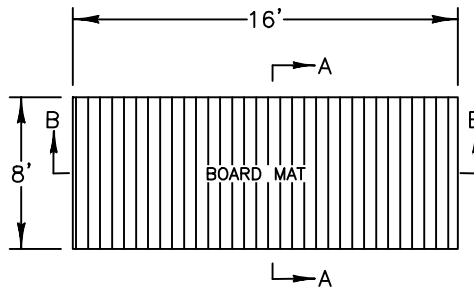
PLAN VIEW

SCALE: N.T.S.

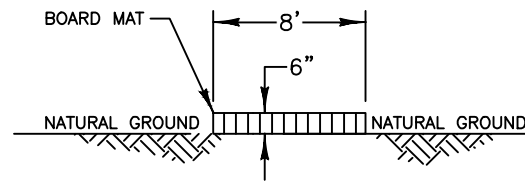
NOTES:

1. TO BE INSTALLED AT ALL OPEN CUT AND CULVERTED WATERBODY CROSSINGS, AS OUTLINED IN THE STORMWATER POLLUTION PREVENTION PLAN PER LDEQ LAR 1000000.

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		TYPICAL CONSTRUCTION BANK STABILIZATION	
DRAWN BY: PCS		CHK'D. BY: PCS	
DATE: 04/02/02		APPRV. BY: PCS	
DWG. NO. OXY-0027			REV A



TYPICAL BOARD MAT DETAIL
NOT TO SCALE



CROSS SECTION A-A
NOT TO SCALE

NOTES:

1. ALL TEMPORARY BOARD MATS AND BRIDGES WILL BE REMOVED UPON COMPLETION OF THE PROJECT.

Notes:

1. As-built drawings and/or plats shall have written on them the date of completion of said activities and shall be submitted to the Louisiana Department of Natural Resources, Office of Coastal Management, P. O. Box 44487, Baton Rouge, LA 70804-4487 within 30 days following project completion.
2. All structures built under the authorization and conditions of this permit shall be removed from the site within 120 days of abandonment of the facilities for the herein permitted use, or when these structures fall into a state of disrepair such that they can no longer function as intended. 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.
3. Structures must also 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.

NOTE: THE CONTENTS OF THIS DRAWING ARE DESIGNED SPECIFICALLY FOR THE PURPOSE OF SECURING FEDERAL, STATE AND LOCAL ENVIRONMENTAL/REGULATORY AUTHORIZATIONS ONLY.

APPLICATION BY:

OCCIDENTAL CHEMICAL CORPORATION



Date: 11-15-23
Project No.: 21161
Drawn By: NMS

Checked By: TD
Approved By:

PREPARED BY:



PROJECT CONSULTING SERVICES, INC.

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(504) 833-5321 Fax (504) 833-4940
www.projectconsulting.com

Revised Date:
Revised Approved By:

PROJECT JUPITER
PROPOSED 6" & 8" PIPELINES
ASCENSION & ST. JAMES PARISHES, LA

TYPICAL BOARD MAT & NOTES

DWG. NO. **OXY-0024**