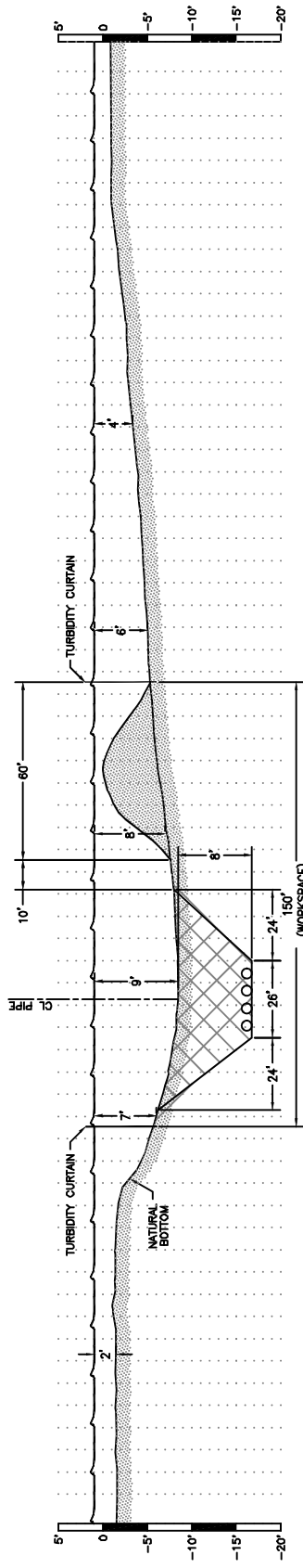
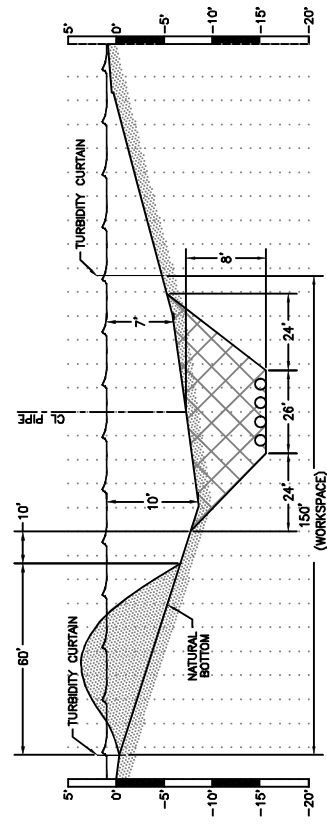


SECTION A-A' (HDD EXIT SITE)



SECTION B-B'



SECTION C-C'

NOTE:
TRENCH SIDE SLOPES ARE 3:1.

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Date: 12/27/2018
Revised: 3/3/2019

CROSS-SECTIONS
PLs: Aransas Fac. to Harbor Island



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PREPARED BY: LAW
CHECKED BY:
APPROVED BY:
PROJECT NO.: 19012
REISSUE DATE: 3/25/19

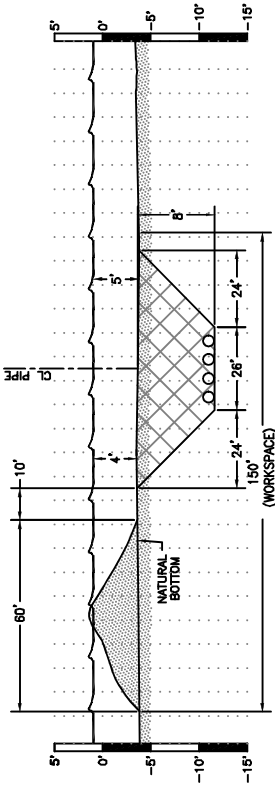
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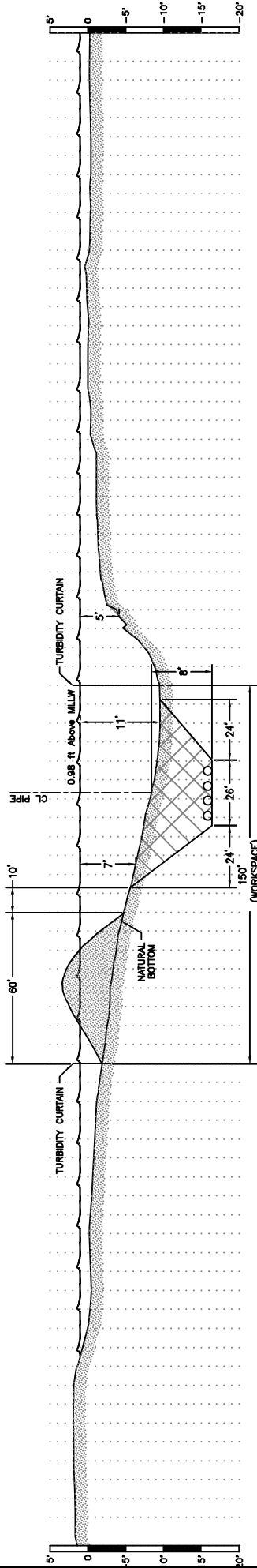
AXIS MIDSTREAM

AXIS MIDSTREAM HOLDINGS, LLC
Proposed Pipelines & Facilities
MIDWAY to HARBOR ISLAND PROJECT
SAN PATRICIO & NUECES COUNTIES, TEXAS
Prepared BY: Project Consulting Services, Inc.

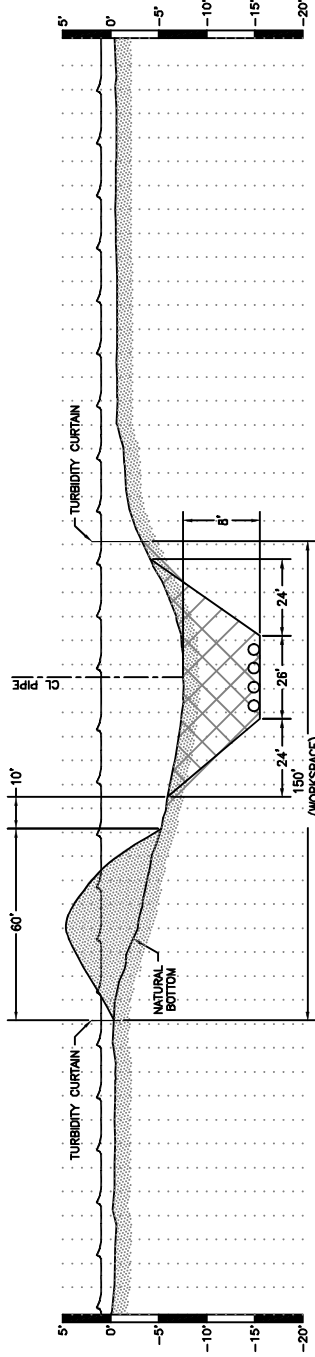
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SECTION D-D'



SECTION E-E'



SECTION F-F'

NOTE:
TRENCH SIDE SLOPES ARE 3:1.

HORIZONTAL SCALE: 1"=60'
VERTICAL SCALE: 1"=20'

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CROSS-SECTIONS
PLs: Aransas Fac. to Harbor Island



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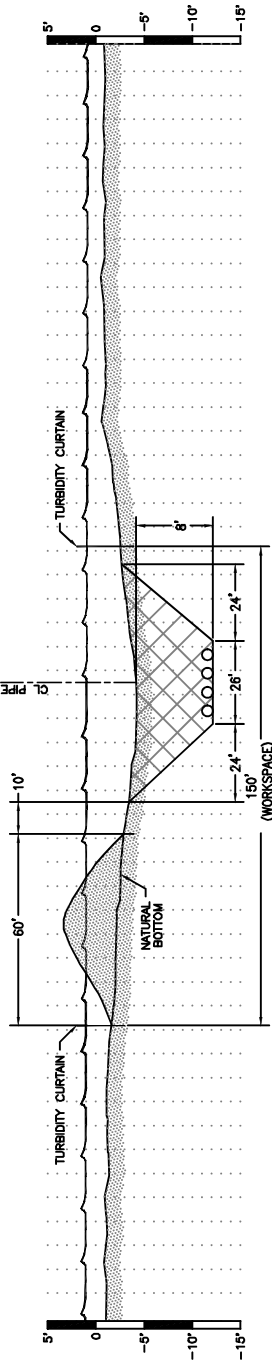
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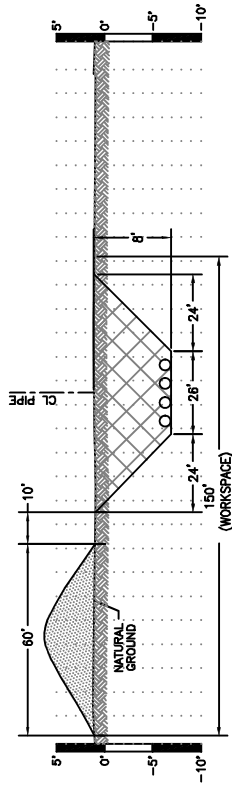
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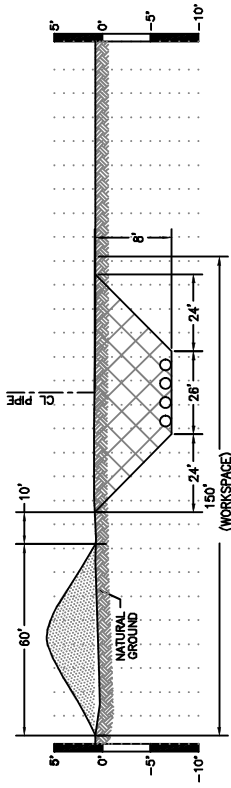
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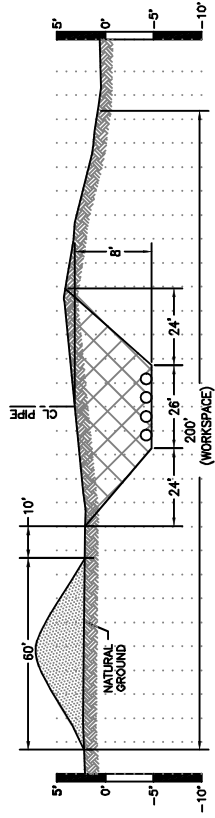
SECTION G-G'



SECTION H-H'



SECTION I-I'



SECTION J-J'

NOTE:
TRENCH SIDE SLOPES ARE 3:1.

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CROSS-SECTIONS
Pls: Aransas Fac. to Harbor Island



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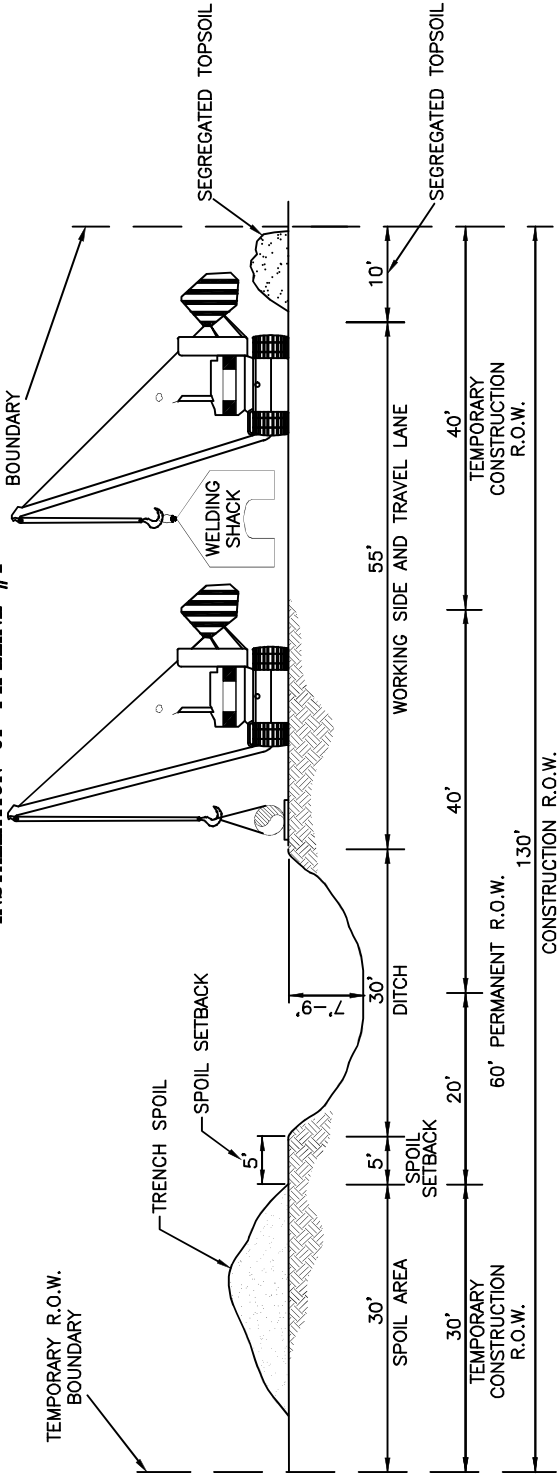


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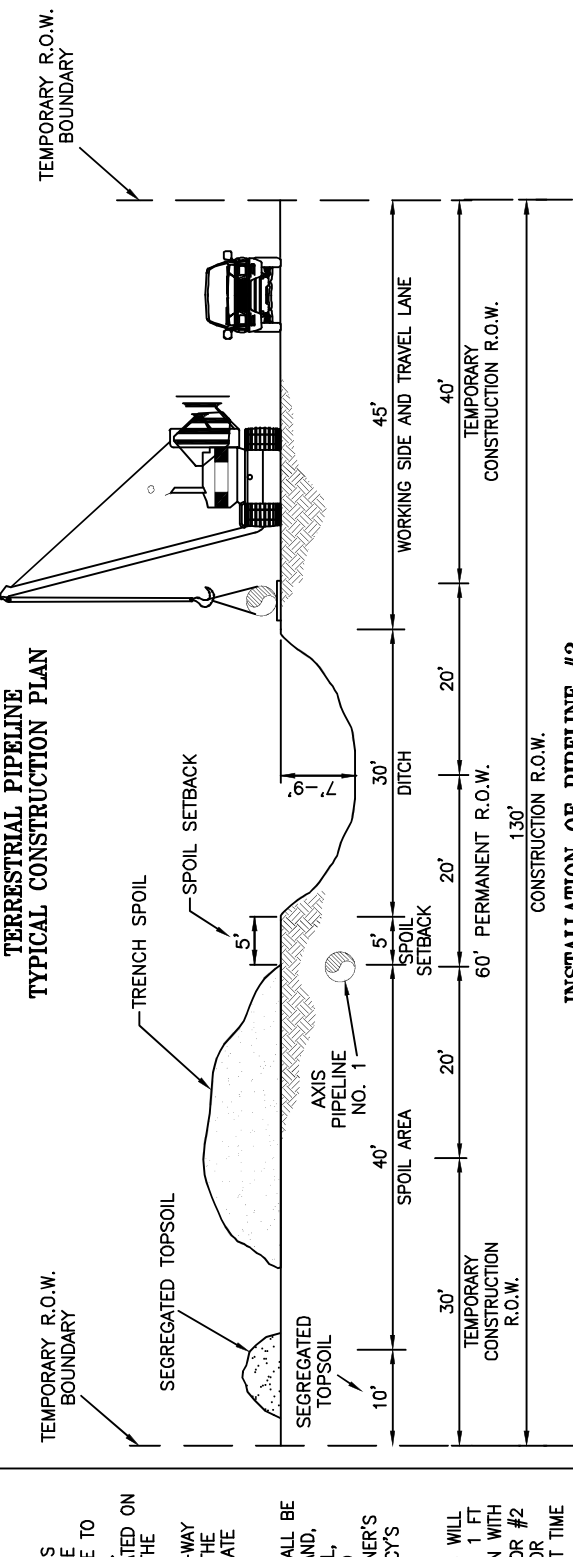
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INSTALLATION OF PIPELINE #1



TERRESTRIAL PIPELINE TYPICAL CONSTRUCTION PLAN



TYPICAL CROSS-SECTION
PLs: Midway T.F. to Arkansas Fac.



INSTALLATION OF PIPELINE #2

- NOTES:**
- ALTHOUGH THE DIMENSIONS SHOWN ARE TYPICAL, SOME VARIATIONS MAY EXIST DUE TO SITE SPECIFIC CONDITIONS. UNLESS OTHERWISE INDICATED ON THE ALIGNMENT SHEETS, THE MAXIMUM WIDTH OF THE CONSTRUCTION RIGHT-OF-WAY SHALL BE AS SHOWN IN THE TABLE FOR THE APPROPRIATE PIPE DIAMETER.
 - TOPSOIL AND SUBSOIL SHALL BE SEGREGATED WITHIN WETLAND, RESIDENTIAL, AGRICULTURAL, PASTURES, HAYFIELDS AND OTHER AREAS AT LANDOWNER'S OR LAND MANAGING AGENCY'S REQUEST.
 - 6" PIPELINE (NOT SHOWN) WILL BE PLACED IN DITCH WITH 1 FT WALL TO WALL SEPARATION WITH EITHER 36" PIPELINE #1 OR #2 DEPENDING ON CONTRACTOR SEQUENCE PREFERENCE AT TIME OF INSTALLATION.

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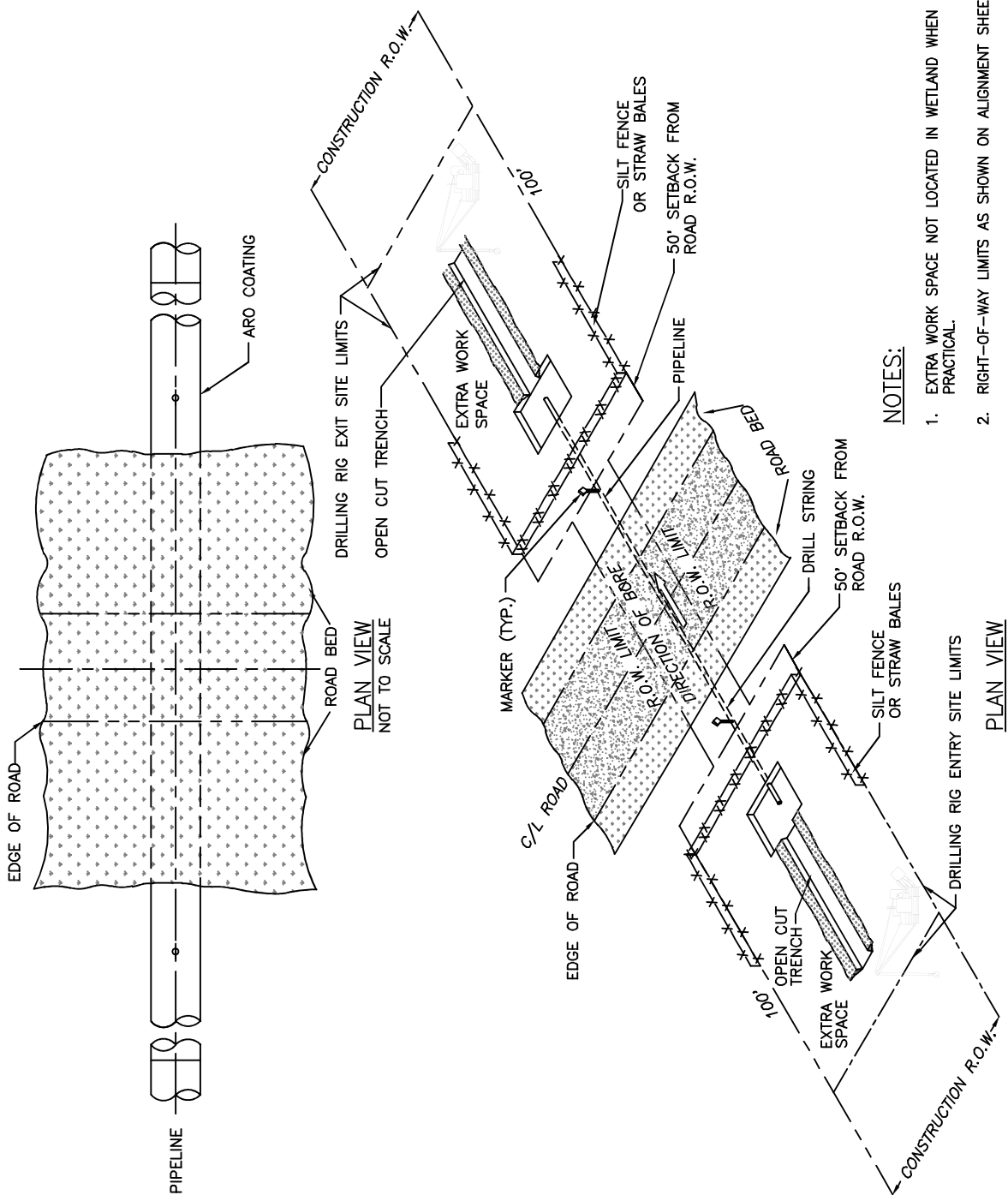


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Proposed Pipelines & Facilities
MIDWAY TO HARBOR ISLAND PROJECT

SAN PATRICIO & NUECES COUNTIES, TEXAS
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NOTES:

1. EXTRA WORK SPACE NOT LOCATED IN WETLAND WHEN POSSIBLE AND PRACTICAL.
2. RIGHT-OF-WAY LIMITS AS SHOWN ON ALIGNMENT SHEETS.
3. WORK AREA WILL BE TEMPORARILY MAINTED FOR MARSH AREAS.

TYPICAL CONST. LAYOUT
 PLs: Road Crossing Bore

PLAN VIEW
 NOT TO SCALE

Date: 12/27/2018
 Revised: 3/3/2019

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 MIDWAY TO HARBOR ISLAND PROJECT
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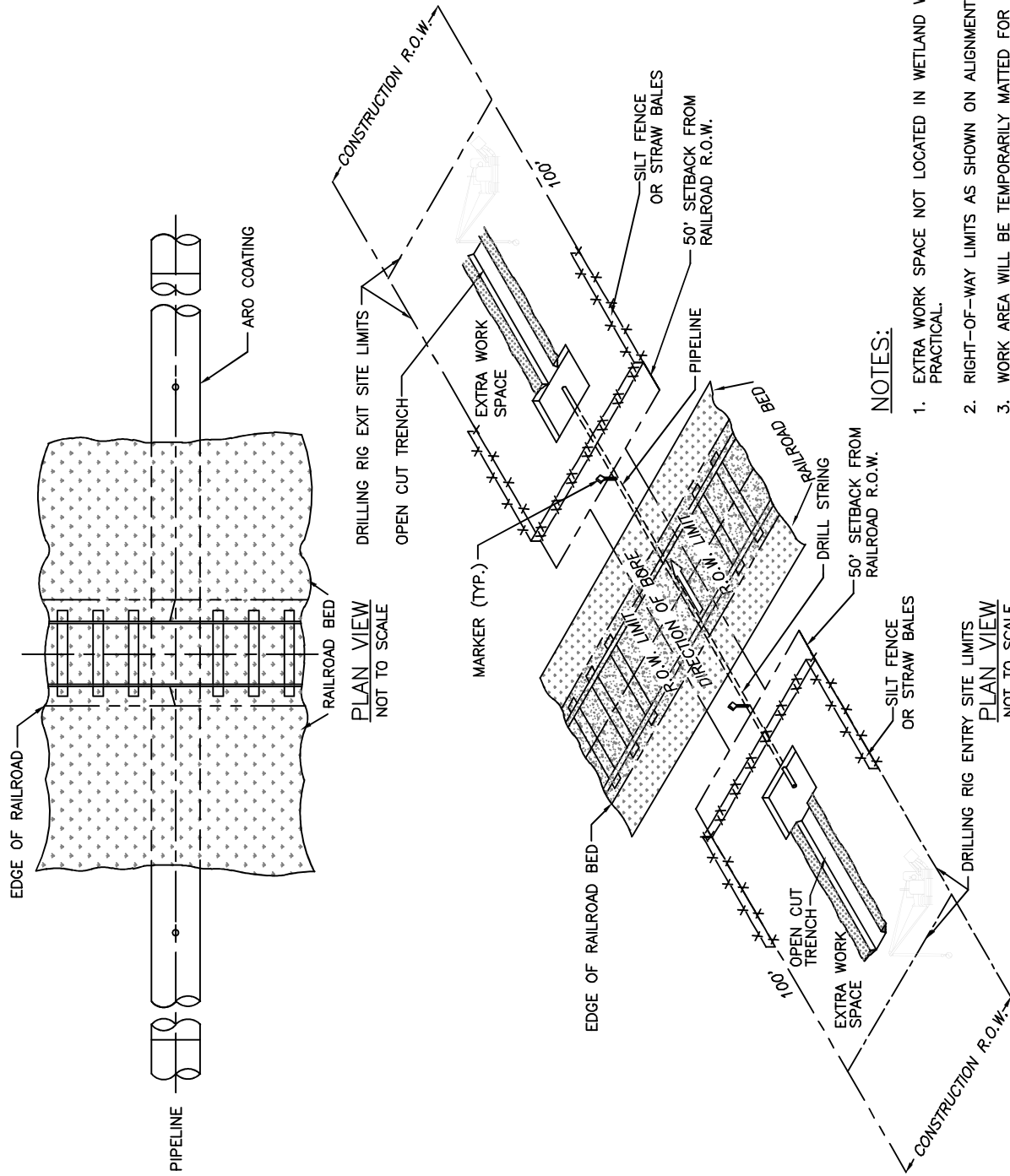
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NOTES:

1. EXTRA WORK SPACE NOT LOCATED IN WETLAND WHEN POSSIBLE AND PRACTICAL.
2. RIGHT-OF-WAY LIMITS AS SHOWN ON ALIGNMENT SHEETS.
3. WORK AREA WILL BE TEMPORARILY MATTED FOR MARSH AREAS.

TYPICAL CONST. LAYOUT
 PLS: Railroad Crossing Bore

PLAN VIEW
 NOT TO SCALE

Date: 12/27/2018
 Revised: 3/3/2019

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 MIDWAY TO HARBOR ISLAND PROJECT
 SAN PATRICIO & NUECES COUNTIES, TEXAS
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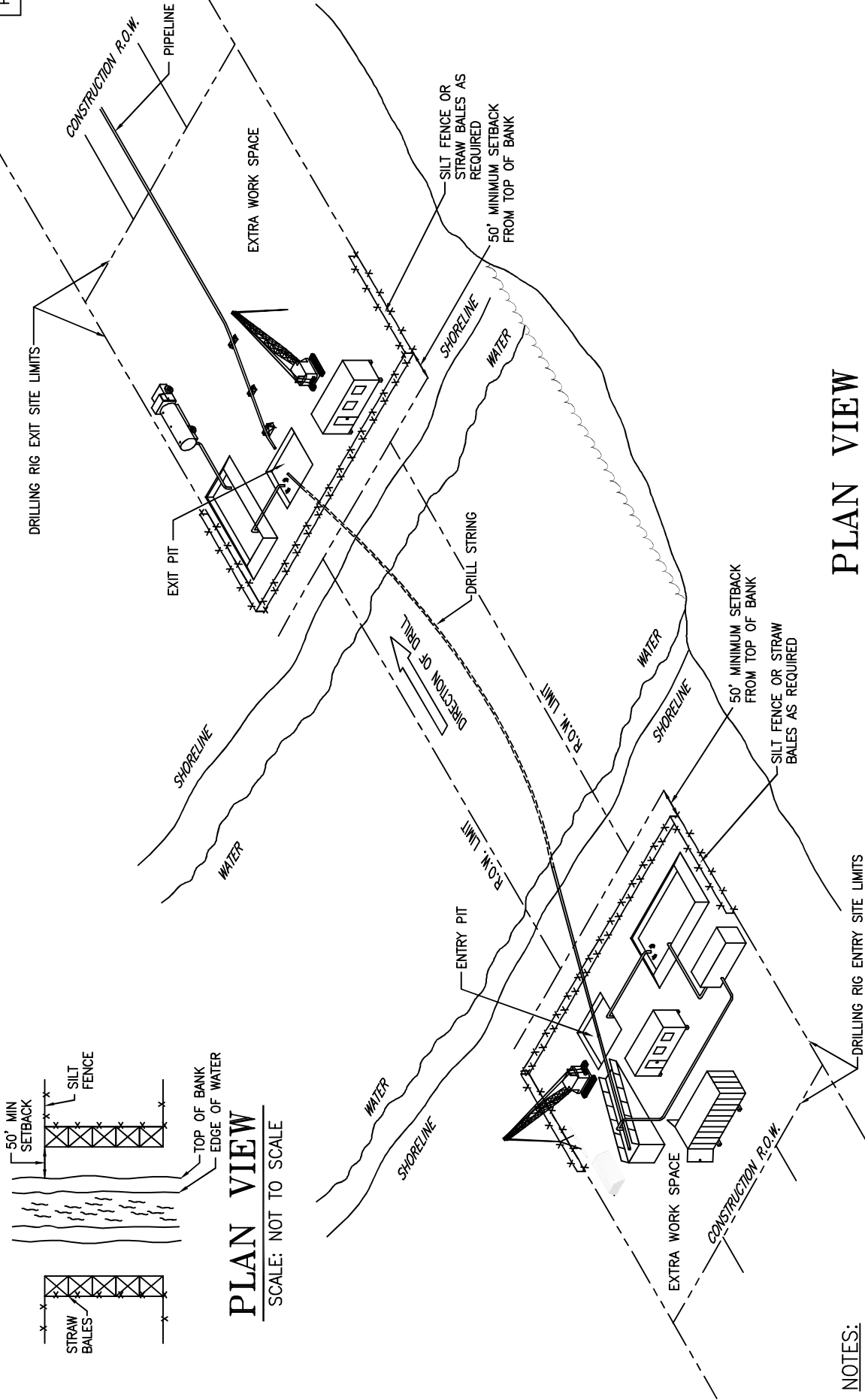
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PLAN VIEW
SCALE: NOT TO SCALE

PLAN VIEW
NOT TO SCALE

- NOTES:**
- EXTRA WORK SPACE NOT LOCATED IN WETLANDS WHEN POSSIBLE.

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Date: 12/27/2018
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TYPICAL CONST. LAYOUT
PLs: Waterbody Crossing

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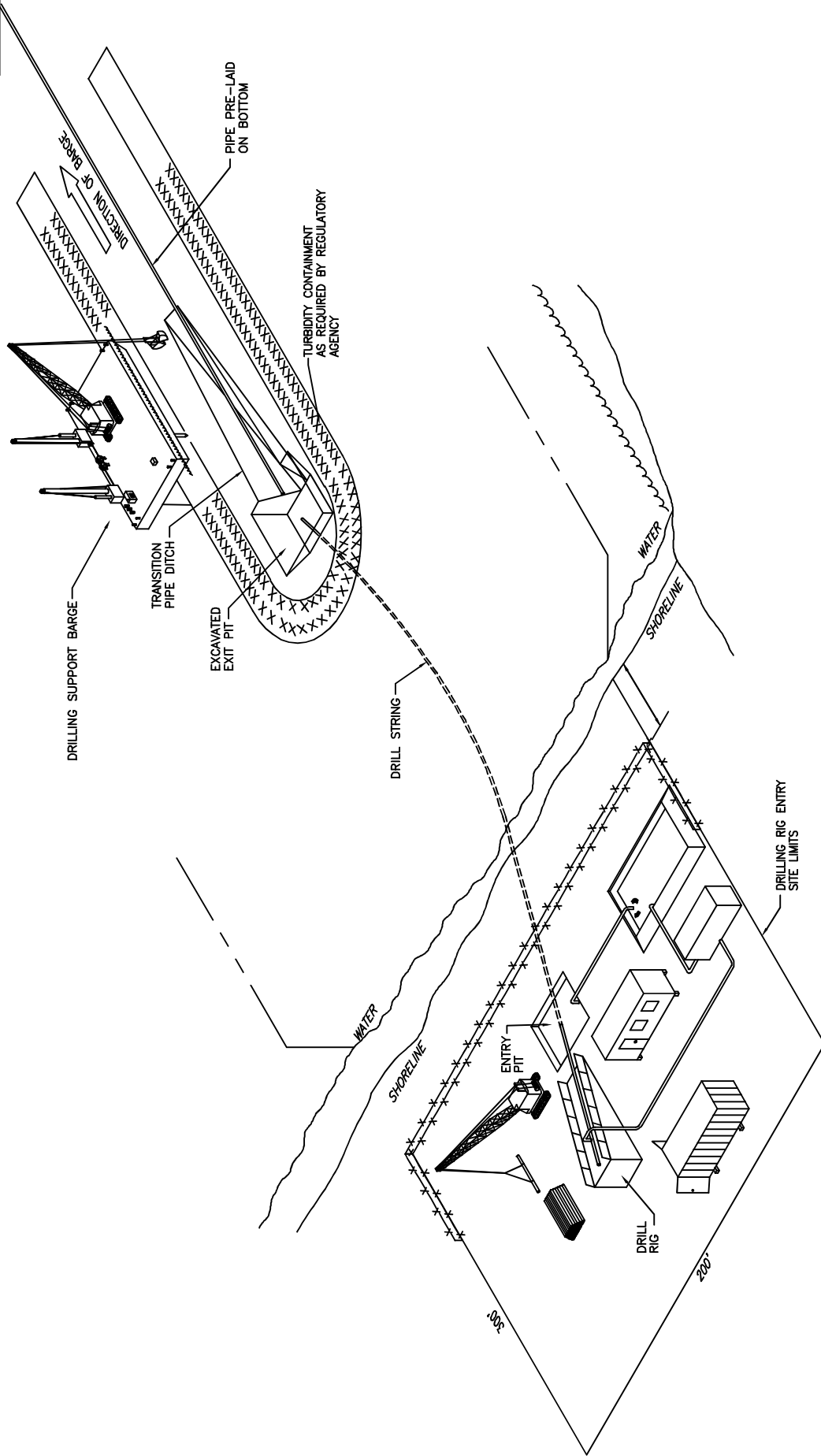
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HORIZONTAL DIRECTIONAL DRILLING LAND TO WATER

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

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Date: 12/27/2018
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TYPICAL CONST. LAYOUT
PLs: Land to Water



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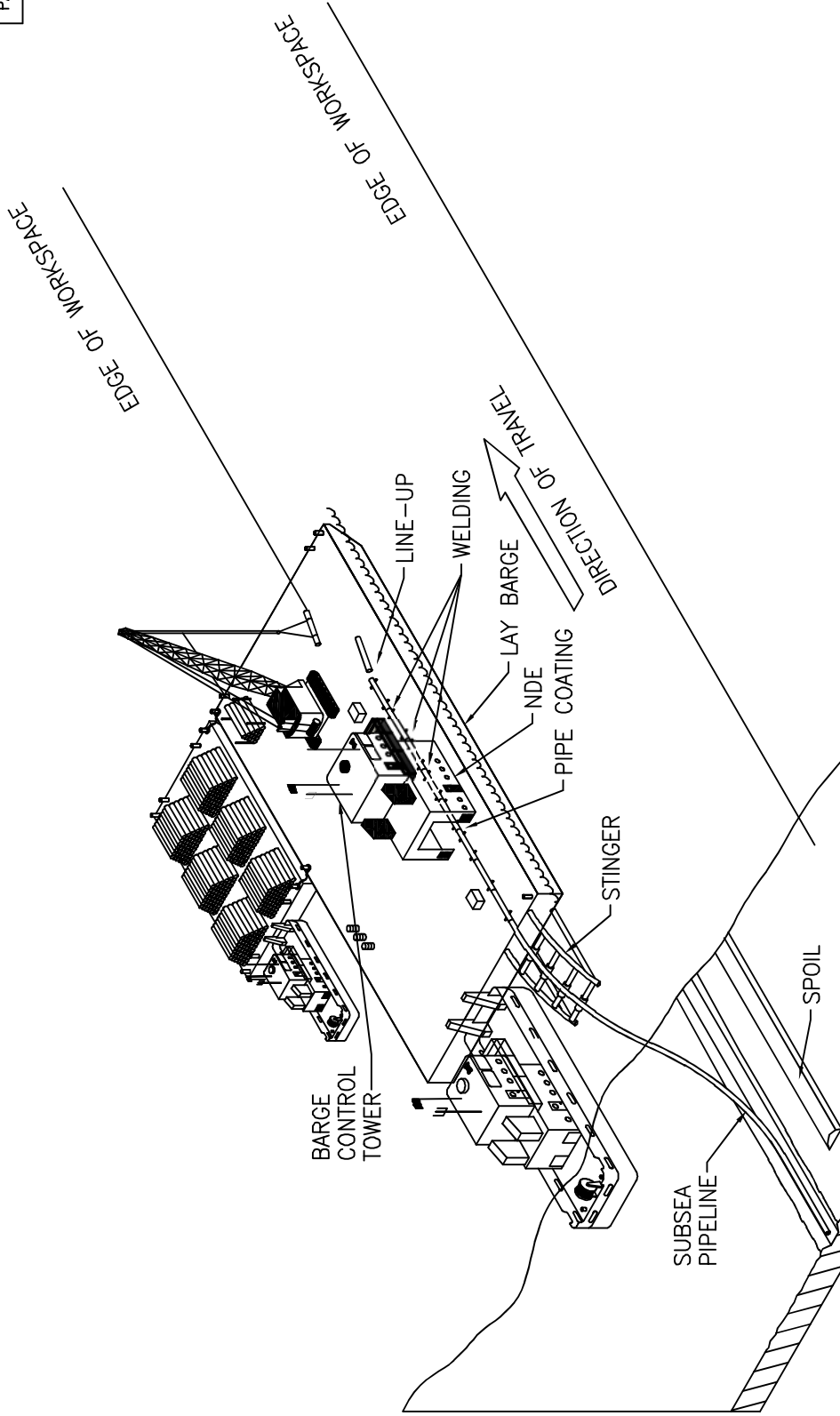
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Proposed Pipelines & Facilities
MIDWAY to HARBOR ISLAND PROJECT
SAN PATRICIO & NUECES COUNTIES, TEXAS
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TYPICAL PIPELINE LAY BARGE SPREAD

SCALE
CONDENSED FOR ILLUSTRATIVE PURPOSES

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Date: 12/27/2018
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TYPICAL CONST. LAYOUT
PLs: Shallow Water Lay Barge



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MIDWAY to HARBOR ISLAND PROJECT

SAN PATRICIO & NUECES COUNTIES, TEXAS

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PLAN VIEW
Midway Tank Farm

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MIDWAY to HARBOR ISLAND PROJECT
SAN PATRICIO & NUECES COUNTIES, TEXAS
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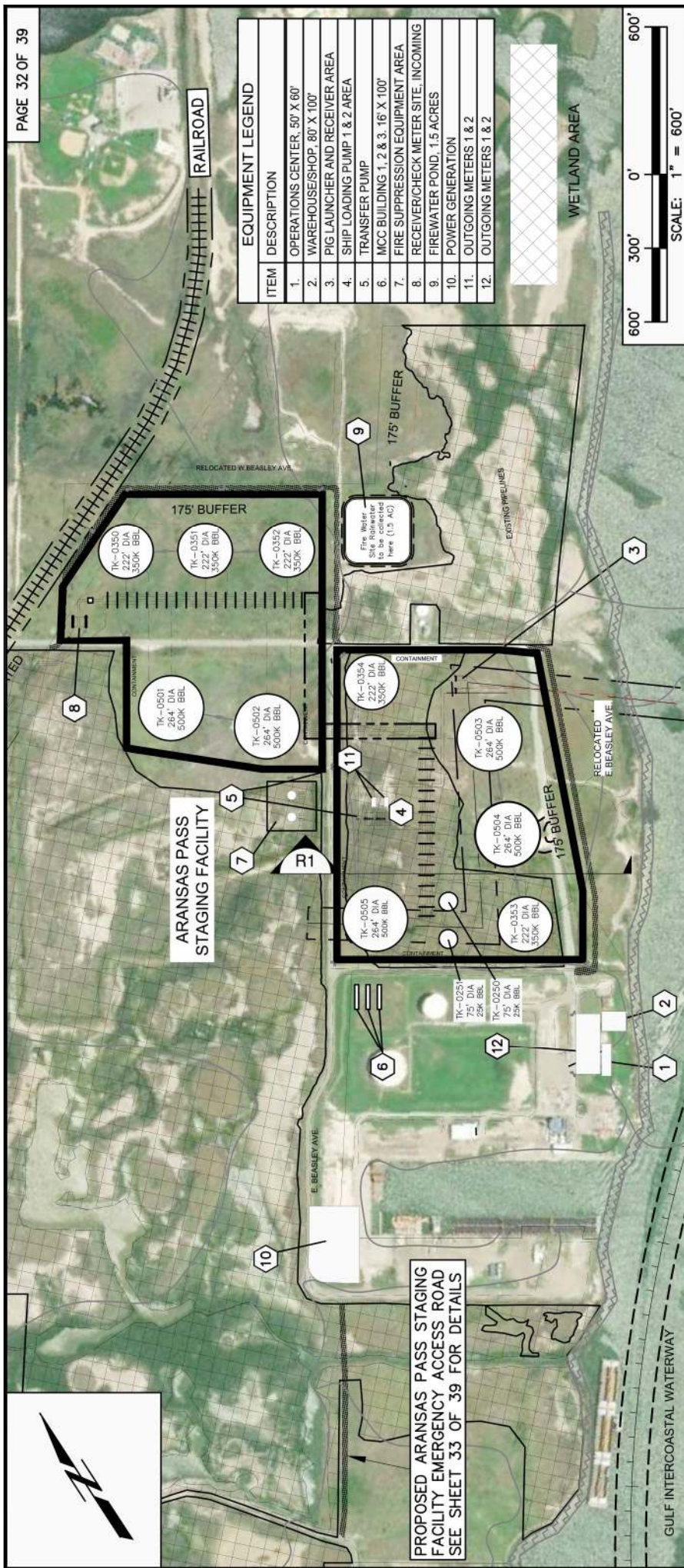
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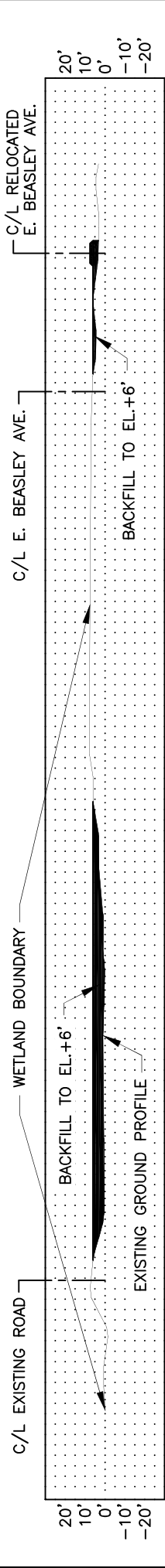
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ITEM	DESCRIPTION
1.	OPERATIONS CENTER, 50' X 60'
2.	WAREHOUSE/SHOP, 80' X 100'
3.	PIG LAUNCHER AND RECEIVER AREA
4.	SHIP LOADING PUMP 1 & 2 AREA
5.	TRANSFER PUMP
6.	MCC BUILDING 1, 2 & 3, 16' X 100'
7.	FIRE SUPPRESSION EQUIPMENT AREA
8.	RECEIVER/CHECK METER SITE, INCOMING
9.	FIREWATER POND, 1.5 ACRES
10.	POWER GENERATION
11.	OUTGOING METERS 1 & 2
12.	OUTGOING METERS 1 & 2



R1 CROSS SECTION
SCALE: 1"=150'
VERT. SCALE: 1"=75'

PLAN VIEW/CROSS-SECTION
Arkansas Pass Staging Facility

Date: 12/27/2018
Revised: 3/3/2019, 5/3/2019

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Proposed Pipelines & Facilities
MIDWAY to HARBOR ISLAND PROJECT

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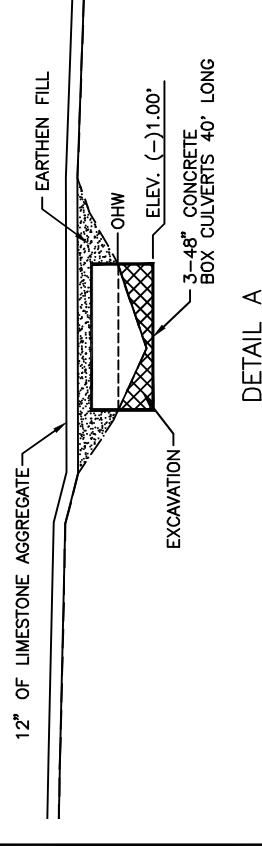
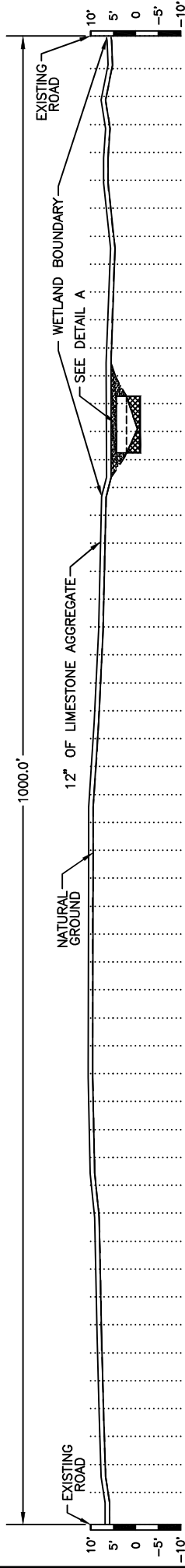
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SWG-2018-00789

AXIS MIDSTREAM



NOTES:

LIMESTONE AGGREGATE (EAST SIDE)	195 CU. YDS.
LIMESTONE AGGREGATE (IN WETLANDS)	540 CU. YDS.
EARTHEN FILL FOR ROAD	163 CU. YDS.
RIP-RAP	17 CU. YDS.
EXCAVATION FOR CULVERTS	102 CU. YDS.

PLAN VIEW/CROSS SECTION
ACCESS ROAD - ARANSAS FAC.

AXIS MIDSTREAM HOLDINGS, LLC
Proposed Pipelines & Facilities
MIDWAY TO HARBOR ISLAND PROJECT

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SAN PATRICIO & NUECES COUNTIES, TEXAS
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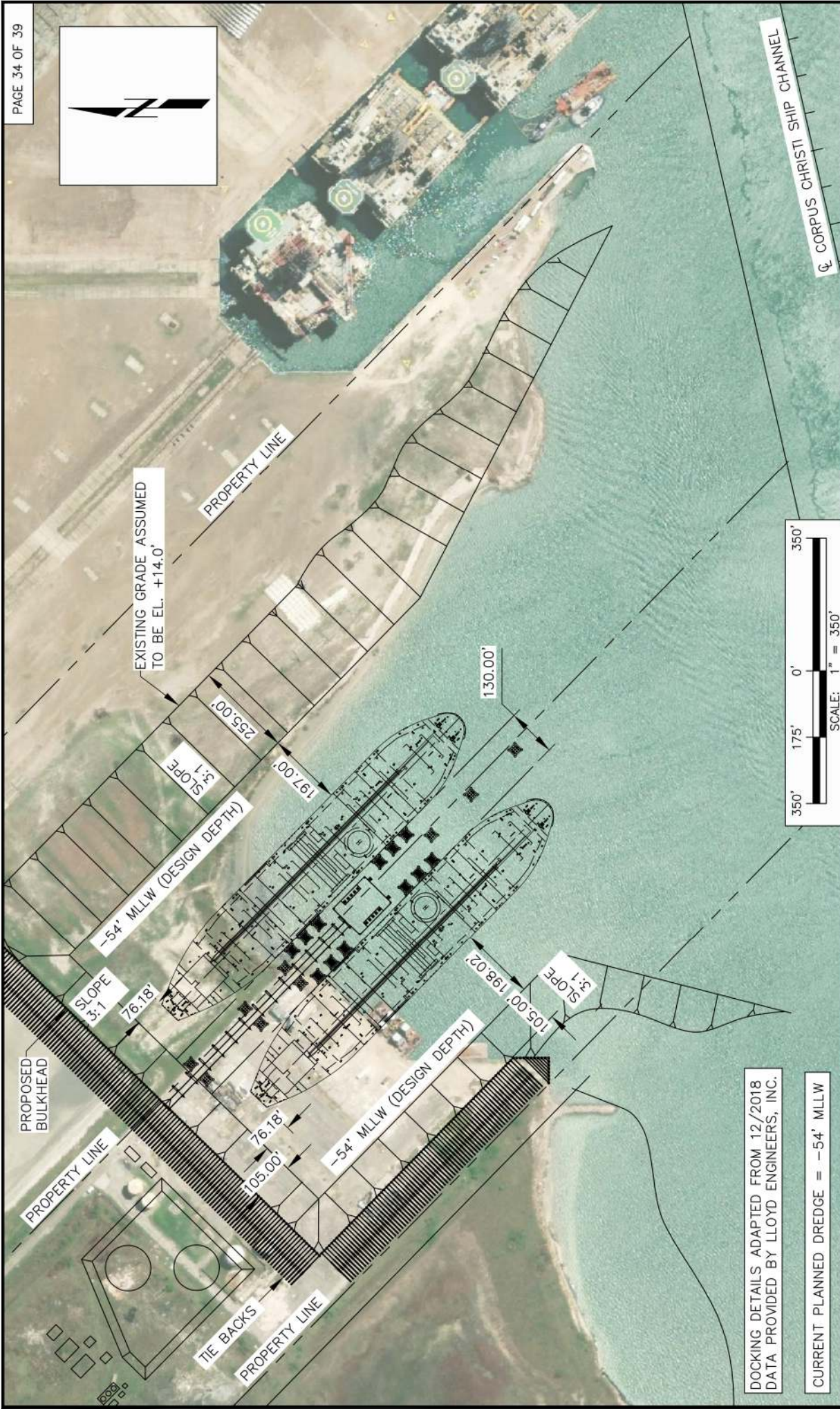
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DOCKING DETAILS ADAPTED FROM 12/2018 DATA PROVIDED BY LLOYD ENGINEERS, INC.

CURRENT PLANNED DREDGE = -54' MLLW

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Date: 12/27/2018
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PLAN VIEW
Harbor Island Marine Terminal



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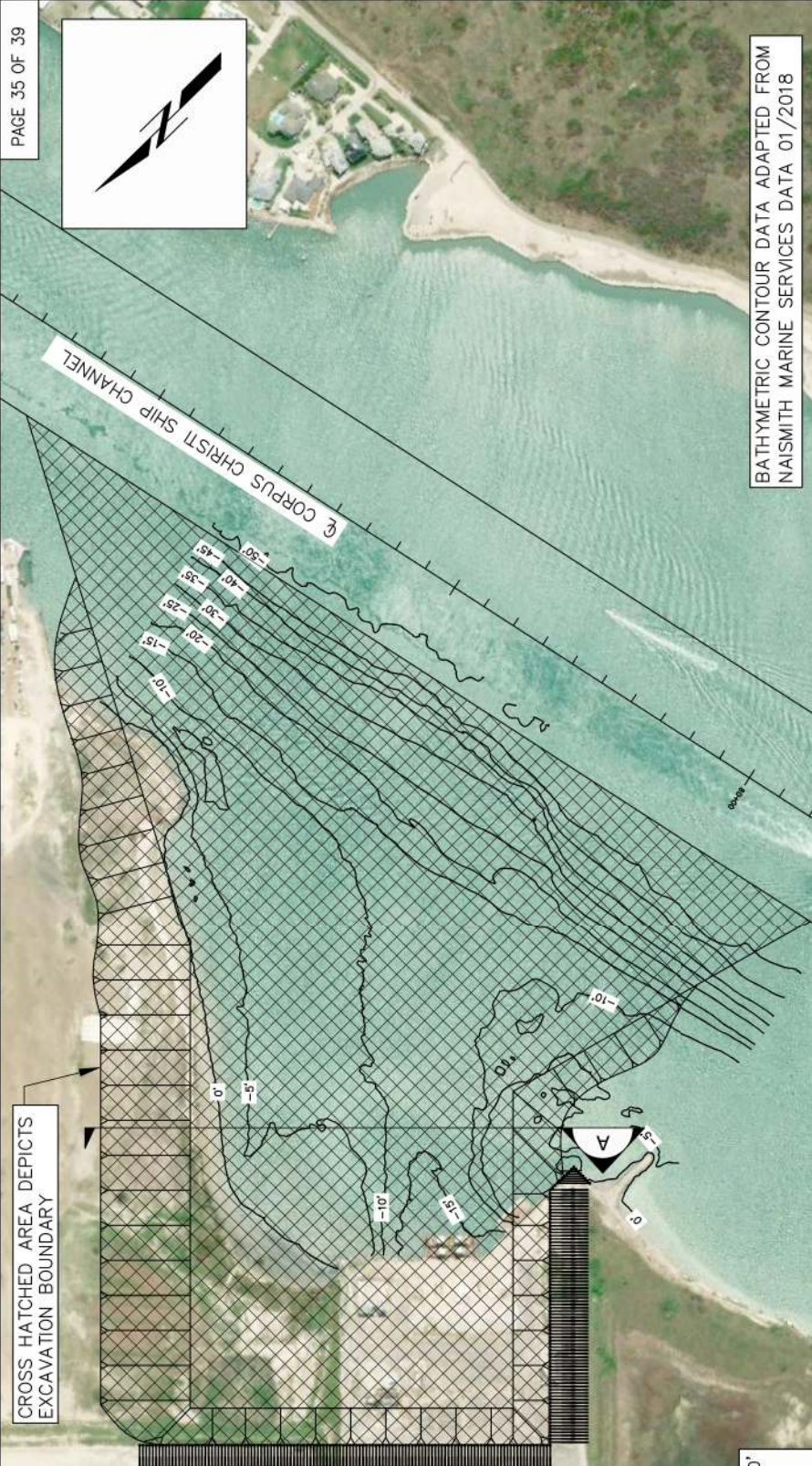
Proposed Pipelines & Facilities

MIDWAY TO HARBOR ISLAND PROJECT
SAN PATRICIO & NUECES COUNTIES, TEXAS
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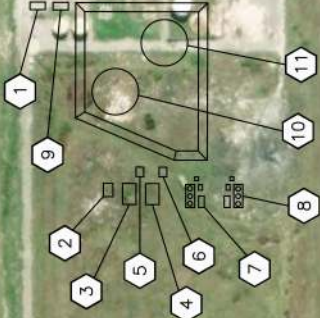


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NAISMITH MARINE SERVICES DATA 01/2018

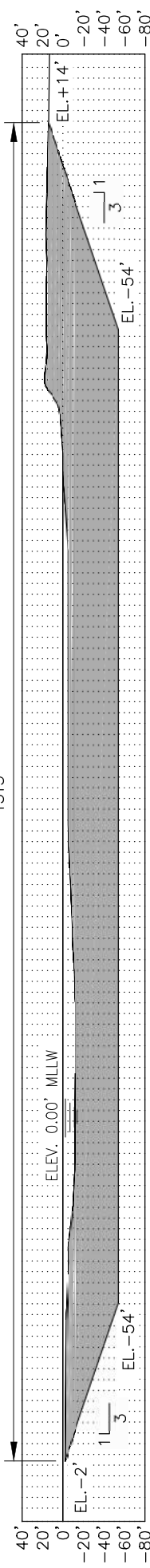


CROSS HATCHED AREA DEPICTS
EXCAVATION BOUNDARY

ITEM	DESCRIPTION
1.	OFFICE
2.	16" PIG LAUNCHER/RECEIVER
3.	42" PIG LAUNCHER/RECEIVER #1
4.	42" PIG LAUNCHER/RECEIVER #2
5.	METER SKID #1
6.	METER SKID #2
7.	COMBUSTOR UNIT #1
8.	COMBUSTOR UNIT #2
9.	CONTROL BUILDING
10.	80K BBL. TANK
11.	80K BBL. TANK



1313'



A CROSS SECTION
SCALE: 1" = 150'

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PLAN VIEW/CROSS SECTION
Harbor Island Marine Terminal



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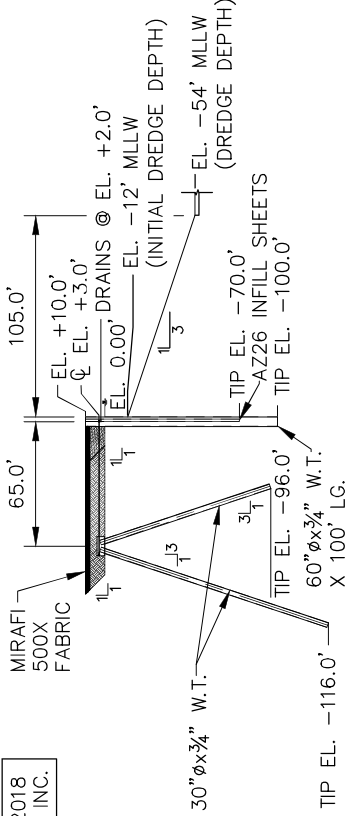
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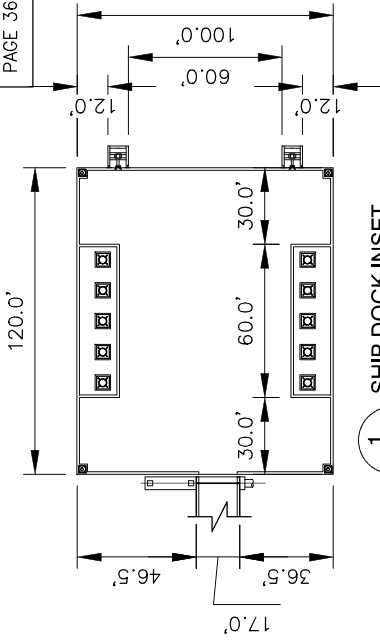


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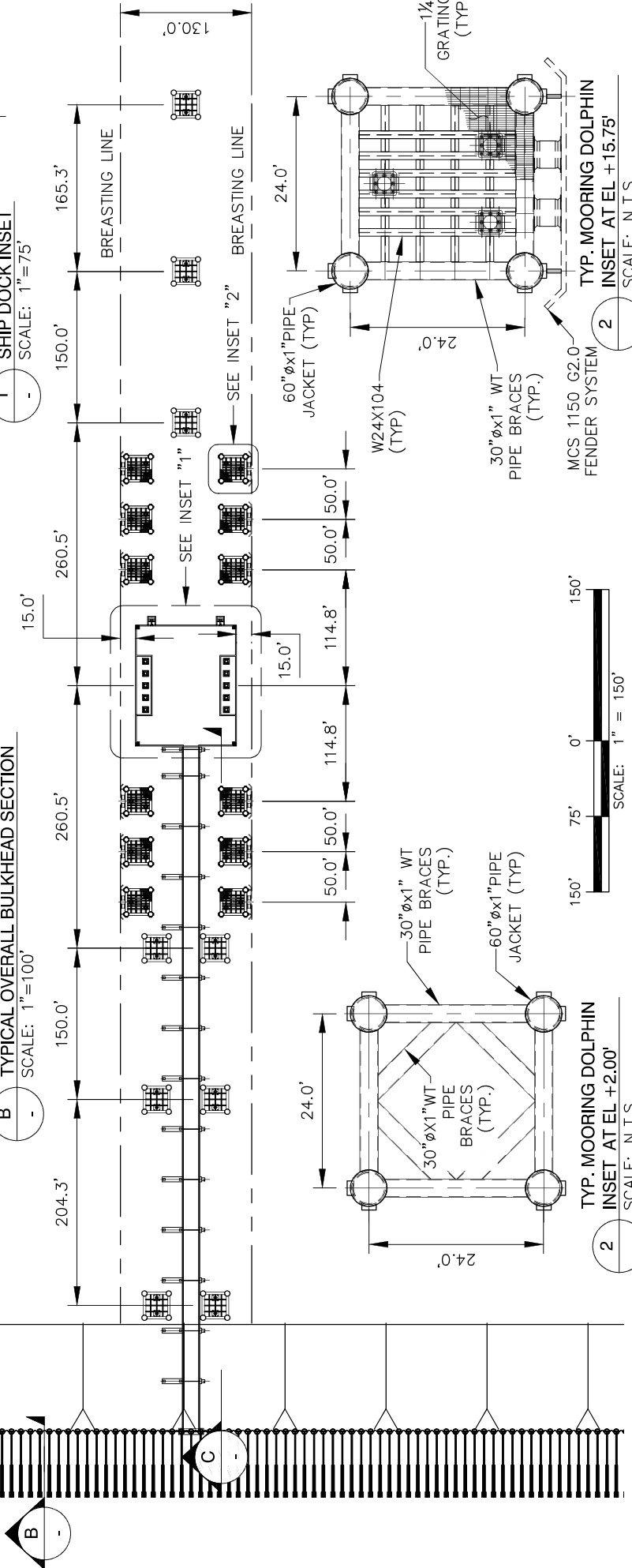
Sheet
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B TYPICAL OVERALL BULKHEAD SECTION
SCALE: 1" = 100'



1 SHIP DOCK INSET
SCALE: 1" = 75'



2 TYP. MOORING DOLPHIN INSET AT EL. +2.00'
SCALE: N.T.S.

2 TYP. MOORING DOLPHIN INSET AT EL. +15.75'
SCALE: N.T.S.

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

Date: 12/27/2018
Revised: 3/3/2019

PLAN VIEW/CROSS SECTIONS
Harbor Island Marine Terminal



PROJECT CONSULTING SERVICES, INC.
www.projectconsulting.com

PREPARED BY: RAM
CHECKED BY:
APPROVED BY:
PROJECT NO.: 19012
REISSUE DATE: 3/25/19

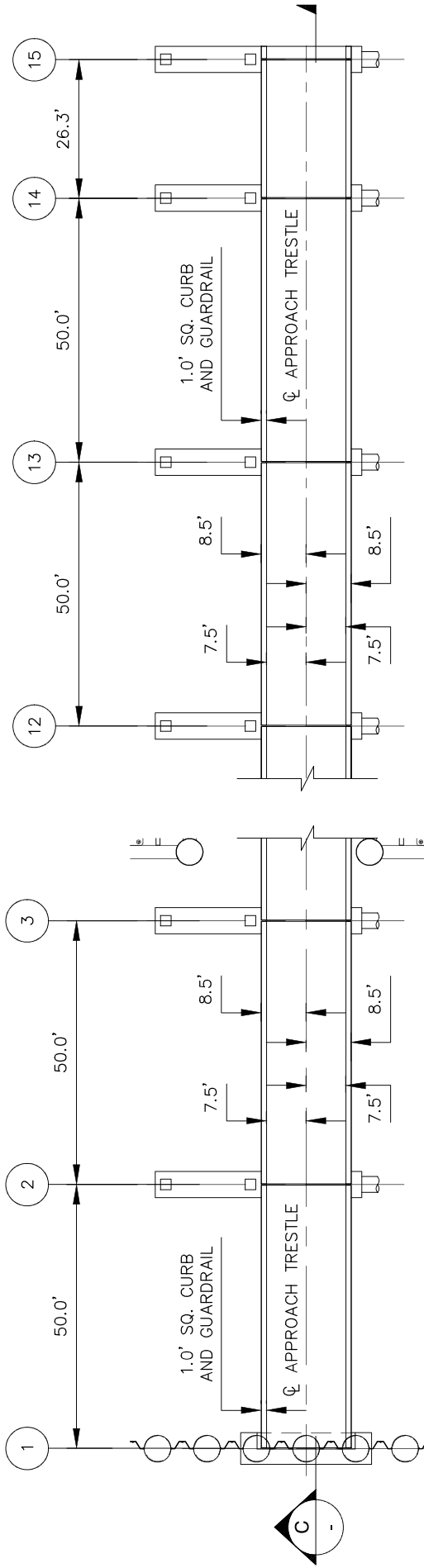
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BIRMINGHAM, AL ♦ ATLANTA, GA ♦ LAFAYETTE, LA
MANDERLIE, LA ♦ SAN ANTONIO, TX
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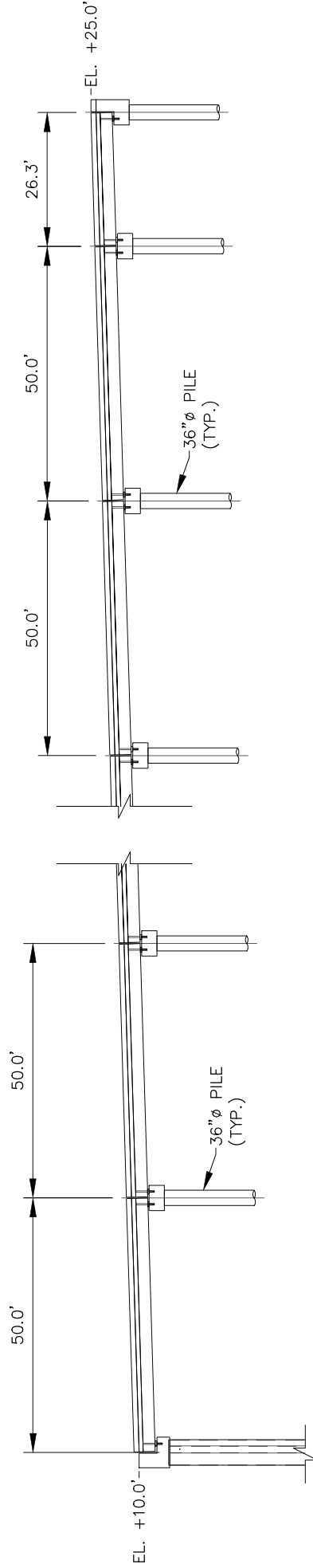
AXIS MIDSTREAM

AXIS MIDSTREAM HOLDINGS, LLC
Proposed Pipelines & Facilities
MIDWAY TO HARBOR ISLAND PROJECT
SAN PATRICIO & NUECES COUNTIES, TEXAS
Prepared BY: Project Consulting Services, Inc.

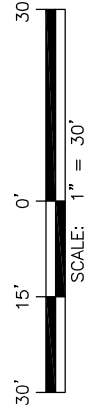
Sheet 36/42



1 APPROACH AND PIPE TRESTLE ENLARGED PLAN
SCALE: 1"=30'-0"



C APPROACH TRESTLE SECTION
SCALE: 1"=30'-0"



DOCKING DETAILS ADAPTED FROM 12/2018 DATA PROVIDED BY LLOYD ENGINEERS, INC.

Date: 12/27/2018
Revised: 3/3/2019

PLAN VIEW/CROSS SECTIONS
Harbor Island Marine Terminal

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CHECKED BY:
APPROVED BY:
PROJECT NO.: 19012
REISSUE DATE: 3/25/19

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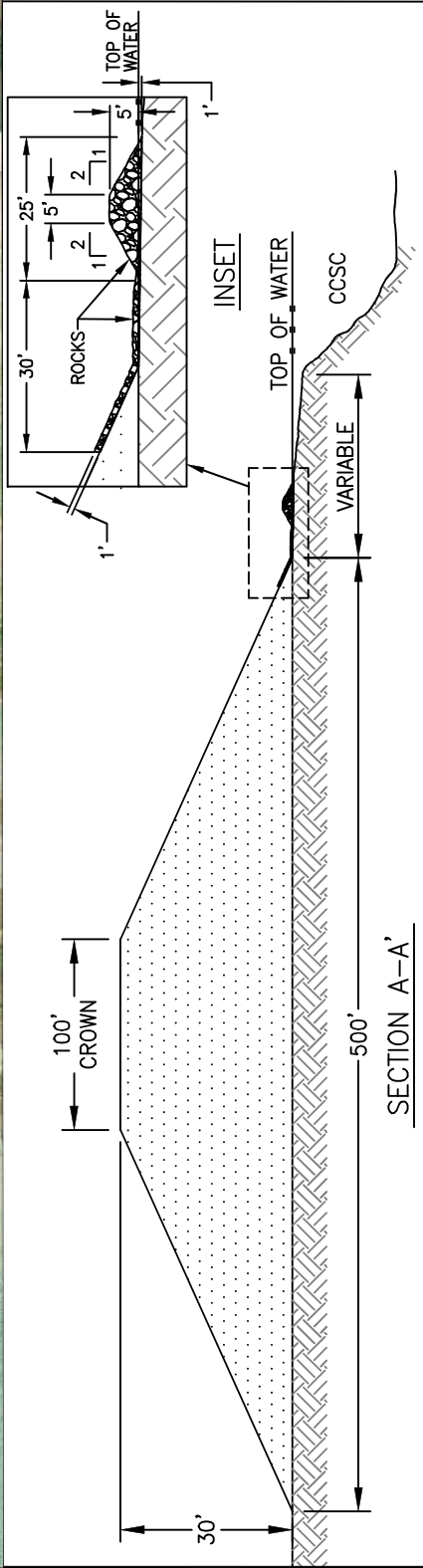
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MIDWAY TO HARBOR ISLAND PROJECT
SAN PATRICIO & NUECES COUNTIES, TEXAS
Prepared BY: Project Consulting Services, Inc.



SWG-
2018-
00789



NOTE:
 THE DISPOSAL SITE FOR THE EXCAVATED MATERIAL FROM THE PROPOSED HARBOR ISLAND MARINE TERMINAL WILL BE STRATEGICALLY PLACED ALONG THE NORTHERN BANKLINE OF THE CORPUS CHRISTI SHIP CHANNEL (CCSC), AS DETAILED. AS A CONCEPTUAL COMPENSATORY MITIGATION PLAN, THE MATERIAL IS BEING POSITIONED ALONG THE SHORELINE TO PROTECT THE REDFISH BAY STATE SCIENTIFIC AREA (RBSSA), MORE SPECIFICALLY THE SENSITIVE SEAGRASS BEDS, FROM FURTHER IMPACTS RESULTING FROM THE FAILING SHORELINE BETWEEN THE RBSSA AND THE CCSC.



CONCEPTUAL MITIGATION
 PLs & Fac: Midway T.F. to Harbor Island

Date: 12/27/2018
 Revised: 3/3/2019, 5/3/2019

AXIS MIDSTREAM HOLDINGS, LLC
 Proposed Pipelines & Facilities
 MIDWAY to HARBOR ISLAND PROJECT

Sheet 38/42

SAN PATRICIO & NUECES COUNTIES, TEXAS
 Prepared BY: Project Consulting Services, Inc.

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 CHICAGO, IL ♦ NORTH HAMPTON, NH

PREPARED BY: LRW
 CHECKED BY:
 APPROVED BY:
 PROJECT NO.: 19012
 REISSUE DATE: 3/25/19

SWG-2018-00789

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



Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards

Action	Volume (yd3)	Material Type
Excavation/fill for Pipeline Installation		
Terrestrial excavation/fill in freshwater wetlands	68,112	Native freshwater marsh
Terrestrial excavation/fill in waterbodies	4,585	Freshwater ponds/drainages
Excavation/fill in seagrass	90,351	Vegetated bay bottoms
Excavation/fill in estuarine wetlands & tidal flats	60,393	Native estuarine marsh
Excavation/fill for pipeline burial in oil & gas canals	52,770	Canal bottom material
Excavation/fill for pipeline burial in Redfish Bay	87,925	Unvegetated bay bottoms
Excavation/Fill at Facilities		
Action	Volume (yd3)	Material Type
Fill for Aransas Pass Staging Facility	106,076	Earthen fill
Fill for Emergency Access Road (Earthen)	163	Earthen fill
Fill for Emergency Access Road (Aggregate)	735	Limestone aggregate
Fill for Emergency Access Road (Rip-Rap)	17	Rock rip-rap
Excavation for Emergency Access Road	102	Water bottom (tidal)
Excavation at Harbor Island Loading Terminal (Uplands)	2,802,849	Uplands
Excavation at Harbor Island Loading Terminal (Water Bottoms)	2,785,450	Water bottom (tidal)
Excavation/Fill at Mitigation Site		
Fill for Breakwater	40,275	Rock rip-rap
Fill for Levee	5,588,299	Earthen fill

Surface Area in Acres of Wetlands or Other Waters Filled

Resource Type	Affected Acres	Impact Type
Midway Tank Farm to Aransas Pass Staging Facility Pipeline Installation		
Wetlands (Freshwater)	13.08	Temporary
Wetlands (Estuarine/Tidal)	0.45	Temporary
Waterbodies	0.27	Temporary
Aransas Pass Staging Facility to Harbor Island Loading Terminal Pipeline Installation		
Resource Type	Affected Acres	Impact Type
Black Mangrove	0.41	Temporary
Seagrass Beds	2.30	Permanent
Seagrass Beds	5.46	Temporary
Tidal Flats	10.56	Temporary
Water Bottoms (O&G canal)	21.96	Temporary
Water Bottoms (Redfish Bay)	23.84	Temporary
Wetlands (Estuarine Marsh)	0.11	Temporary
Aransas Pass Staging Facility/Emergency Access Road		
Resource Type	Affected Acres	Impact Type
Wetlands (Freshwater)	15.92	Permanent
Wetlands (Estuarine/Tidal)	0.75	Permanent
Water Bottom (Tidal)	0.03	Temporary
Mitigation Site		
Resource Type	Affected Acres	Impact Type
Tidal Flats (Levee)	1.70	Permanent
Water Bottoms (Breakwater)	8.3	Permanent

NOTES FOR TERRESTRIAL CROSS SECTIONS:

- 1.) PRIOR TO COMMENCEMENT OF EXCAVATION ACTIVITIES THE APPLICANT OR THEIR CONTRACTOR SHALL NOTIFY TEXAS811.
- 2.) SPOIL WILL BE TEMPORARILY STOCKPILED ADJACENT TO THE PIPELINE TRENCH AND USED AS BACKFILL UPON COMPLETION.

NOTES ON MARINE CROSS SECTIONS:

- 1.) PRIOR TO COMMENCEMENT OF EXCAVATION ACTIVITIES THE APPLICANT OR THEIR CONTRACTOR SHALL NOTIFY TEXAS811.
- 2.) SPOIL WILL BE TEMPORARILY STOCKPILED ADJACENT TO THE PIPELINE TRENCH AND USED AS BACKFILL UPON COMPLETION.
- 3.) PILE SUPPORTED SIGNS WILL BE DEPLOYED ADJACENT TO THE TEMPORARY SPOIL AREAS TO NOTIFY MARINERS OF THE POTENTIAL SUBMERGED HAZARD

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

Date: 12/27/2018
Revised: 3/3/2019, 5/3/2019

IMPACT TABLES & NOTES
PLs & Fac: Midway T.F. to Harbor Island



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PREPARED BY: LRW
CHECKED BY:
APPROVED BY:
PROJECT NO.: 19012
REISSUE DATE: 3/25/19



AXIS MIDSTREAM

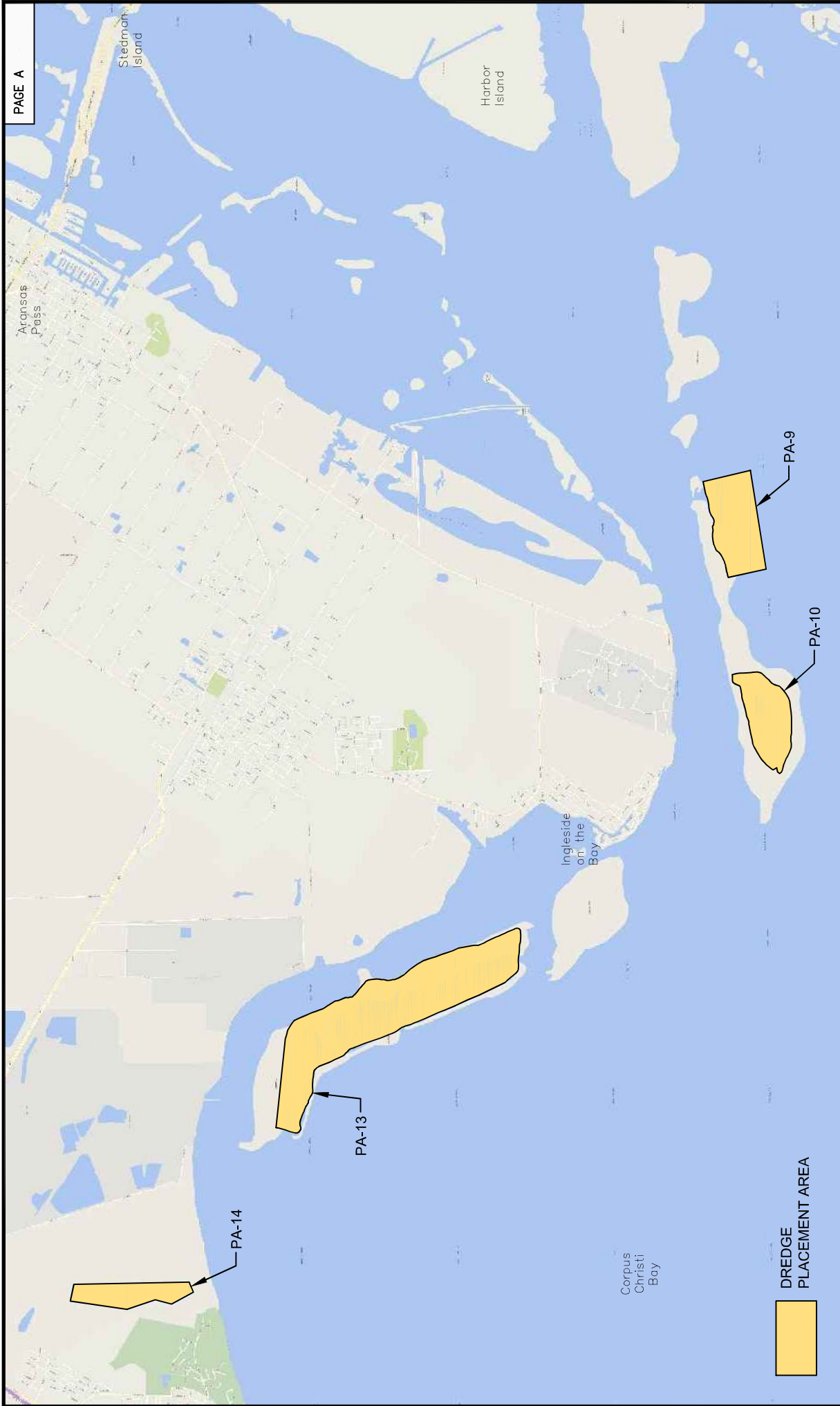
AXIS MIDSTREAM HOLDINGS, LLC

Proposed Pipelines & Facilities
MIDWAY to HARBOR ISLAND PROJECT

Sheet
39/42

SAN PATRICIO & NUECES COUNTIES, TEXAS

Prepared BY: Project Consulting Services, Inc.



PROPOSED ALTERNATE DREDGE PLACEMENT AREAS

Date: 5/3/2019

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 MIDWAY to HARBOR ISLAND PROJECT
 SAN PATRICIO & NUECES COUNTIES, TEXAS
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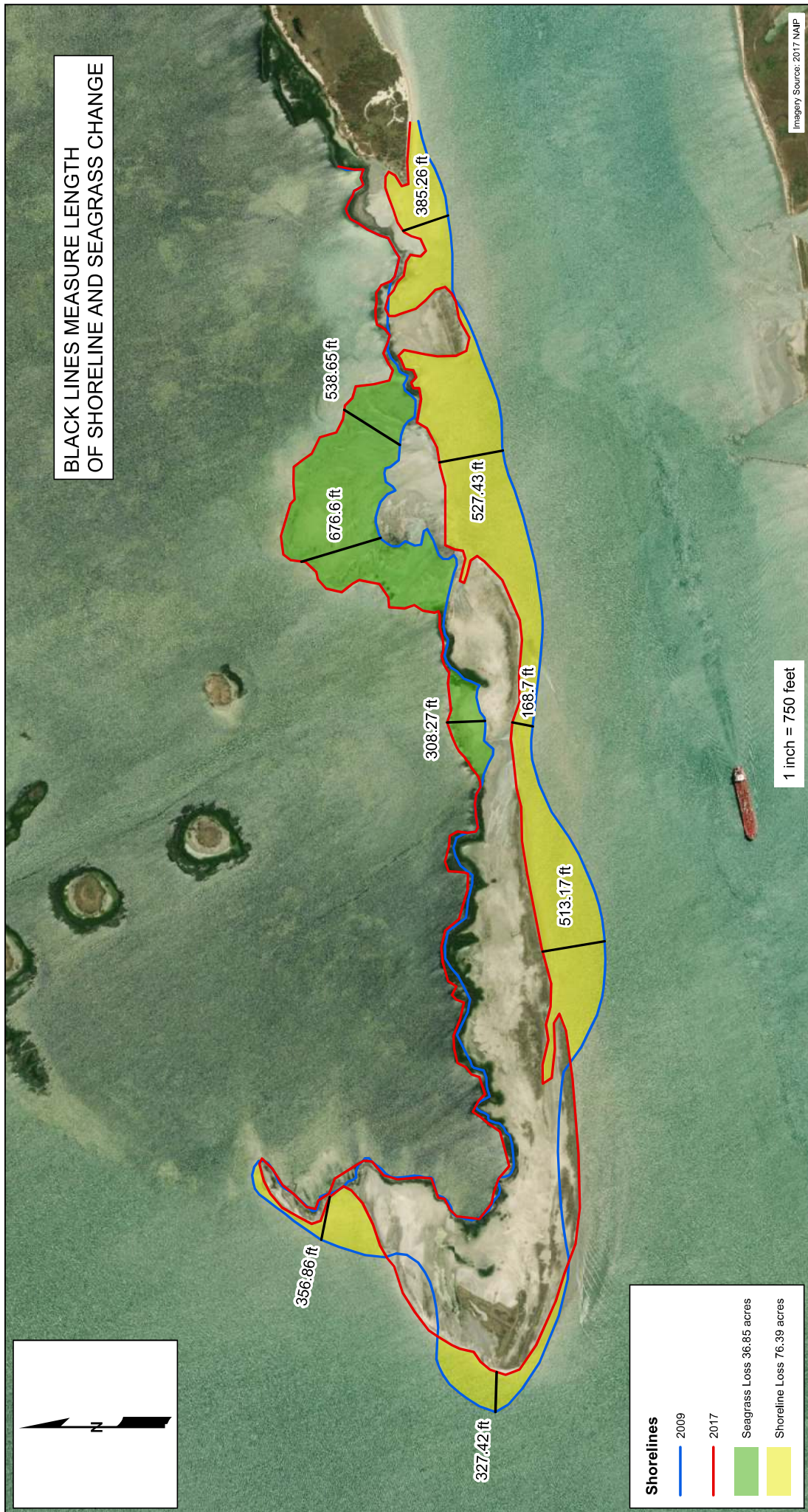
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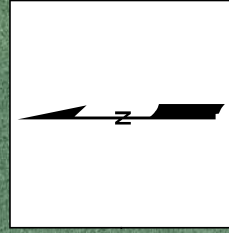
PREPARED BY: KMA
CHECKED BY:
APPROVED BY:
PROJECT NO.: 19012
REISSUE DATE: 5/3/19

BLACK LINES MEASURE LENGTH OF SHORELINE AND SEAGRASS CHANGE



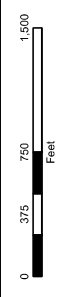
Imagery Source: 2017 NAIP

1 inch = 750 feet



Shorelines	
—	2009
—	2017
■	Seagrass Loss 36.85 acres
■	Shoreline Loss 76.39 acres

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SEAGRASS AND SHORELINE LOSS AT HARBOR ISLAND



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Prepared By: AWIS
 Checked By:
 Approved By:
 Project No.: 19012



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AXIS MIDSTREAM HOLDINGS, LLC.

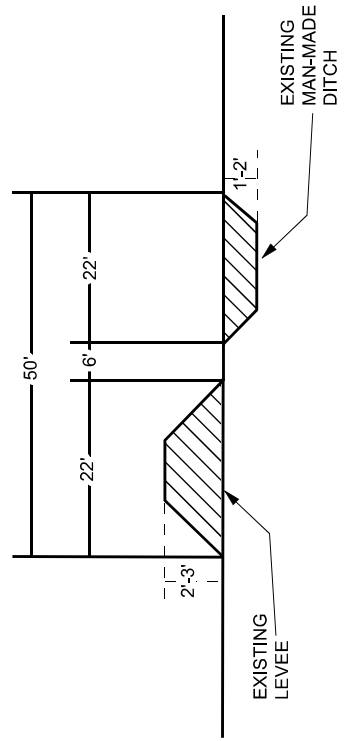
Proposed Pipelines & Facilities
 MIDWAY TO HARBOR ISLAND PROJECT
 NUECES COUNTY, TEXAS

Prepared By: Project Consulting Services, Inc.

-  Area Restored (2.0 Acres)
-  Positive Affected Area (8.7 Acres)



EXCAVATION VOLUME: 2,431 CU. YDS.
 AREA RESTORED: 2.0 AC.
 POSITIVE AFFECTED AREA: 8.7 AC.



TYPICAL CROSS-SECTION
 NOT TO SCALE

ARANSAS PASS FACILITY TIDAL WETLAND RESTORATION



AXIS MIDSTREAM HOLDINGS, LLC
 Proposed Pipelines & Facilities **Sheet**
 MIDWAY to HARBOR ISLAND PROJECT
 SAN PATRICIO & NUECES COUNTIES, TEXAS **42/42**

Date: 6/5/19

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Prepared By: MJE
 Checked By: RG
 Approved By: RL
 Project No.: 19012
 Reissue Date: 6/5/19

2018-00789

Jones, Robert N CIV USARMY CESWG (USA)

From: Trant, Angela G CIV USARMY CESWG (USA)
Sent: Monday, July 29, 2019 9:27 AM
To: Jones, Robert N CIV USARMY CESWG (USA)
Subject: FW: REGULATORY Internal Review Request - S: 2 August 2019 - GIWW, REDFISH BAY, CORPUS CHRISTI SHIP CHANNEL, San Patricio and Nueces Counties, Texas - SWG-2018-00789
Attachments: SAM req. - New Real Estate Application.pdf

-----Original Message-----

From: CESWG-RE-INT-REV
Sent: Monday, July 29, 2019 9:12 AM
To: Trant, Angela G CIV USARMY CESWG (USA) <Angela.G.Trant@usace.army.mil>
Cc: dodell@midstream.com; Garcia, Francisco T Jr CIV USARMY CESWG (USA) <Frank.T.Garcia@usace.army.mil>
Subject: RE: REGULATORY Internal Review Request - S: 2 August 2019 - GIWW, REDFISH BAY, CORPUS CHRISTI SHIP CHANNEL, San Patricio and Nueces Counties, Texas - SWG-2018-00789

We recently reviewed your permit number and your plans indicated that you will be building within a government easement. Please be advised that the United States has an active easement and all permanent fixture in the area requires a Real Estate Outgrant.

Please find the attached Real Estate application with instructions. The work described in your Regulatory application will likely require the following approval documents: Regulatory Permit, 408 letter signed by the District Commander and a Real Estate Instrument (Outgrant) signed by the Real Estate Contracting Officer. All of the review processes may be initiated simultaneously, but each final approval is contingent upon the others. The Realty Specialist and Operation personnel that review your proposed project will determine what approvals are required. To initiate the approval process; complete the application attached and send project specific information to Dave Mairs by emailing SWG-RE@usace.army.mil or mailing a hardcopy to Attn: Mr. Mairs Real Estate Division, Galveston District 2000 Fort Point Road, P.O. Box 1229, Galveston, Texas 77553-1229.

See attached for the RE Application to be completed by the Applicant - Please also submit:

1. Articles of Incorporation
2. W-9
3. CADD/GIS files

Once all of the appropriate documentation has been received, a cost estimate will be created and routed for approval. A letter will be sent to the applicant requesting administrative fees. Applicants are encouraged to wire funds to reduce the time for processing, wiring instructions can be found on the fee letter. Once administrative fees are received an applicant's request will be forwarded to a Realty Specialist for processing. Your assigned Realty Specialist will contact you directly via email and he or she will review all the project specific information, if additional information is needed you will be notified. Once a review is completed a summary report and project specific information will be forwarded to our Land Use Coordinator (Frank Garcia 409-766-3111) located within our Operation Division. The Land Use Coordinator will ensure the appropriate reviews (Navigation, Environmental, Cultural, Engineering etc..) are conducted to include a 408 review, if applicable. Once all reviews are complete a packet will be sent back to your assigned Realty Specialist. The Realty Specialist will finalize the outgrant package and prepare a Real Estate instrument for executed. A Real Estate instrument will be issued for construction, once final as-built data is received a long term Real Estate instrument will granted.

Read below for specific recommendations:

1. The following documents must have the exact same entity name: Real Estate application, Regulatory Permit, W-9, and Articles of Incorporation (also known as Formation Documents).
2. The address on the W-9 provided is where a refund of administrative fees would be sent.
3. The name listed in block 1c of the application should be the applicant's signatory, the names listed in block 1c and 3c cannot be the same individual.
4. The address listed in block 1g should be the applicants physical address not a P.O. Box.
5. Regulatory tracking number should be placed in block 4c of the application. Ask Regulatory for the correct tracking number.
6. The Real Estate instrument granted will cover all Real Estate impacts along the entire length of the project.
7. Block 5f - applicants are encouraged to use a continuation sheet. The project description should include, X and Y where the project begins and ends. The plans should include the X and Y of Federally controlled placement areas.
8. The overall project description should be represented well in the project drawings, they should be easy to follow so all parties conducting a review can gain a quick understanding of the proposed project.
9. Provide cross sections of federal channel, in relation to any nearby levees, or placement areas etc..
10. Project plans should include a timeline for construction and providing final as-built data.
11. All GIS data submissions should be provided to USACE as a compressed (.zip) file containing a geodatabase (.gdb) and/or shapefile(.shp) components.

*Dataset must be a 3D line feature(s) and include z-values, or heights, to correctly locate themselves in 3D space. These objects must be modeled as 3D line features.

*Dataset must have a horizontal projection in either the coordinate system of NAD1983 State Plane Texas South US feet or NAD 1983 State Plane Texas South Central US feet.

*Dataset must have a defined vertical coordinate system for the feature class's z-values on the containing feature dataset or on the feature class itself.

The design data should consist of simple lines and polygons indicating the limits of the construction only. The coordinate system and datum that the drawing is currently in must be clearly shown.

For CADD drawings, please ensure that all layers are properly named to describe that specific feature. If the layers are named using acronyms we need a legend or shoe boxes with leader lines, identifying each feature class within the drawing. All areas must be created in real-world (model space) with an assigned coordinate system. Please do not send drawings with XREFs or reference files, insert all needed files or feature layers into one design file. Cut-sheet or plate layouts in CADD are not needed however, PDF's of proposed project plans and/or as-built are required for further review.

For GIS drawings, assign a proper name sequence to describe that specific feature or it can also be defined in the spatial data within the shape file. To help keep file sizes to the minimum, imagery and USGS Quads do not need to be provided.

The projected coordinate system is:

- (a) Datum: North American 1983 (Survey Feet)
- (b) Projection: State Plane
- (c) Zone: Texas South or Texas South Central

Thank you!

Kelsey Ciarrocca
Cartographer
Real Estate Division
USACE, Galveston District

Jones, Robert N CIV USARMY CESWG (USA)

From: Laskowski, Nicholas A (Nick) CIV USARMY CESWG (USA)
Sent: Monday, July 29, 2019 9:52 AM
To: Jones, Robert N CIV USARMY CESWG (USA)
Cc: Trant, Angela G CIV USARMY CESWG (USA); Howard, Brent S CIV USARMY CESWG (USA); Tate, Carlos D CIV USARMY CESWG (USA); Tirpak, Sharon M CIV USARMY CESWG (USA)
Subject: RE: REGULATORY Internal Review Request - S: 2 August 2019 - GIWW, REDFISH BAY, CORPUS CHRISTI SHIP CHANNEL, San Patricio and Nueces Counties, Texas - SWG-2018-00789 (UNCLASSIFIED)

Classification: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED

Bobby,

Based upon a quick review have concerns with the proposed disposal plans but may have other concerns as additional details are understood.

Also coping Mr. Steve Howard for his review and coordination as necessary.

FEDERAL INTEREST, WILL EFFECT, 408 REQUIRED: There is a Federal Interest located WITHIN / ADJACENT TO the project area that may be adversely impacted by the proposed project. The applicant must complete the Section 408 process prior to the finalization of a Regulatory Permit Decision. The applicant must submit a Real Estate Application to continue evaluation of the proposed project. Please see Nicholas Laskowski, PM-J for additional information.

v/r

Nick

-----Original Message-----

From: Trant, Angela G CIV USARMY CESWG (USA)

Sent: Monday, July 29, 2019 8:29 AM

To: Androy, Jerry L CIV USARMY CESWG (US) <Jerry.L.Androy@usace.army.mil>; Botello, Janet T CIV USARMY CESWG (USA) <janet.t.botello@usace.army.mil>; Bowles, Richard L CIV USARMY CESWG (US) <Richard.L.Bowles@usace.army.mil>; Brown, Harmon III CIV USARMY CESWG (US) <Harmon.Brown@usace.army.mil>; Brown, Karl B CIV USARMY CESWG (USA) <karl.b.brown@usace.army.mil>; Brown, Rhonda G CIV USARMY CESWG (USA) <Rhonda.G.Brown@usace.army.mil>; Bunker, Kurt M CIV USARMY CESWG (USA) <Kurt.M.Bunker@usace.army.mil>; Burks-Copes, Kelly A CIV USARMY CESWG (US) <Kelly.A.Burks-Copes@usace.army.mil>; Carelock, Donald W CIV USARMY CESWG (US) <donald.w.carelock@usace.army.mil>; CATANZARO, Andrea K CIV USARMY CESWG (USA) <Andrea.K.Catanzaro@usace.army.mil>; Craft, Franchelle E CIV USARMY CESWG (US) <Franchelle.E.Craft@usace.army.mil>; Croft, Bradley D CIV USARMY CESWG (USA) <Bradley.D.Croft@usace.army.mil>; Darko-Kagya, Kenneth K CIV USARMY CESWG (USA) <Kenneth.K.Darko-Kagya@usace.army.mil>; Davidson, John P II CIV USARMY CESWG (USA) <John.P.Davidson@usace.army.mil>; Davis, Andria E CIV USARMY CESWG (US) <Andria.E.Davis@usace.army.mil>; Edwards, Aron S CIV USARMY CESWG (USA) <Aron.S.Edwards@usace.army.mil>; Gonzalez, Michael D CIV USARMY CESWG (US) <Michael.D.Gonzalez@usace.army.mil>; HEINLY, Robert W CIV USARMY CESWG (USA) <Robert.W.Heinly@usace.army.mil>; Hernandez, Pablo CIV USARMY CESWG (USA) <Pablo.Hernandez@usace.army.mil>; Irigoyen, Eduardo CIV (USA) <Eduardo.Irigoyen@usace.army.mil>; Jaynes, Kenneth E CIV USARMY CESWG (US) <Kenneth.E.Jaynes@usace.army.mil>; Johnson, Darrell W CIV USARMY CESWG (US) <Darrell.W.Johnson@usace.army.mil>; Laskowski, Nicholas A (Nick) CIV USARMY CESWG (USA)

Jones, Robert N CIV USARMY CESWG (USA)

From: Ganczak, Robert <rganczak@projectconsulting.com>
Sent: Monday, July 29, 2019 10:16 AM
To: Jones, Robert N CIV USARMY CESWG (USA)
Subject: [Non-DoD Source] RE: REGULATORY Internal Review Request - S: 2 August 2019 - GIWW, REDFISH BAY, CORPUS CHRISTI SHIP CHANNEL, San Patricio and Nueces Counties, Texas - SWG-2018-00789 (UNCLASSIFIED)

Thanks for the updates!

-----Original Message-----

From: Jones, Robert N CIV USARMY CESWG (USA) <Robert.N.Jones2@usace.army.mil>
Sent: Monday, July 29, 2019 10:02 AM
To: Ganczak, Robert <rganczak@projectconsulting.com>; Leonhard, Richard <rleonhard@projectconsulting.com>; David O'Dell <dodell@axismidstream.com>
Cc: Laskowski, Nicholas A (Nick) CIV USARMY CESWG (USA) <Nicholas.A.Laskowski@usace.army.mil>
Subject: FW: REGULATORY Internal Review Request - S: 2 August 2019 - GIWW, REDFISH BAY, CORPUS CHRISTI SHIP CHANNEL, San Patricio and Nueces Counties, Texas - SWG-2018-00789 (UNCLASSIFIED)

All, from our Programs Chief:

"Based upon a quick review have concerns with the proposed disposal plans but may have other concerns as additional details are understood.

Also coping Mr. Steve Howard for his review and coordination as necessary.

FEDERAL INTEREST, WILL EFFECT, 408 REQUIRED: There is a Federal Interest located WITHIN / ADJACENT TO the project area that may be adversely impacted by the proposed project. The applicant must complete the Section 408 process prior to the finalization of a Regulatory Permit Decision. The applicant must submit a Real Estate Application to continue evaluation of the proposed project. Please see Nicholas Laskowski, PM-J for additional information."

Bobby Jones, Regulatory Project Manager
USACE - Galveston District
Corpus Christi Regulatory Field Office
5151 Flynn Parkway, Suite 306
Corpus Christi, Texas 78411-4318
Desk: 361-814-5847x1010
Mobile: 361-558-3766

Jones, Robert N CIV USARMY CESWG (USA)

From: Brown, Karl B CIV USARMY CESWG (USA)
Sent: Monday, July 29, 2019 12:28 PM
To: Trant, Angela G CIV USARMY CESWG (USA); Jones, Robert N CIV USARMY CESWG (USA)
Subject: RE: REGULATORY Internal Review Request - S: 2 August 2019 - GIWW, REDFISH BAY, CORPUS CHRISTI SHIP CHANNEL, San Patricio and Nueces Counties, Texas - SWG-2018-00789

Robert/Angela,

From the Project Operations Side,

a) NO FEDERAL INTEREST: There are no Federal Interests located within the project area.

Frank may have an interest from a Navigation Side.

v/r
Karl

-----Original Message-----

From: Trant, Angela G CIV USARMY CESWG (USA)
Sent: Monday, July 29, 2019 8:29 AM
To: Androy, Jerry L CIV USARMY CESWG (US) <Jerry.L.Androy@usace.army.mil>; Botello, Janet T CIV USARMY CESWG (USA) <janet.t.botello@usace.army.mil>; Bowles, Richard L CIV USARMY CESWG (US) <Richard.L.Bowles@usace.army.mil>; Brown, Harmon III CIV USARMY CESWG (US) <Harmon.Brown@usace.army.mil>; Brown, Karl B CIV USARMY CESWG (USA) <karl.b.brown@usace.army.mil>; Brown, Rhonda G CIV USARMY CESWG (USA) <Rhonda.G.Brown@usace.army.mil>; Bunker, Kurt M CIV USARMY CESWG (USA) <Kurt.M.Bunker@usace.army.mil>; Burks-Copes, Kelly A CIV USARMY CESWG (US) <Kelly.A.Burks-Copes@usace.army.mil>; Carelock, Donald W CIV USARMY CESWG (US) <donald.w.carelock@usace.army.mil>; CATANZARO, Andrea K CIV USARMY CESWG (USA) <Andrea.K.Catanzaro@usace.army.mil>; Craft, Franchelle E CIV USARMY CESWG (US) <Franchelle.E.Craft@usace.army.mil>; Croft, Bradley D CIV USARMY CESWG (USA) <Bradley.D.Croft@usace.army.mil>; Darko-Kagya, Kenneth K CIV USARMY CESWG (USA) <Kenneth.K.Darko-Kagya@usace.army.mil>; Davidson, John P II CIV USARMY CESWG (USA) <John.P.Davidson@usace.army.mil>; Davis, Andria E CIV USARMY CESWG (US) <Andria.E.Davis@usace.army.mil>; Edwards, Aron S CIV USARMY CESWG (USA) <Aron.S.Edwards@usace.army.mil>; Gonzalez, Michael D CIV USARMY CESWG (US) <Michael.D.Gonzalez@usace.army.mil>; HEINLY, Robert W CIV USARMY CESWG (USA) <Robert.W.Heinly@usace.army.mil>; Hernandez, Pablo CIV USARMY CESWG (USA) <Pablo.Hernandez@usace.army.mil>; Irigoyen, Eduardo CIV (USA) <Eduardo.Irigoyen@usace.army.mil>; Jaynes, Kenneth E CIV USARMY CESWG (US) <Kenneth.E.Jaynes@usace.army.mil>; Johnson, Darrell W CIV USARMY CESWG (US) <Darrell.W.Johnson@usace.army.mil>; Laskowski, Nicholas A (Nick) CIV USARMY CESWG (USA) <Nicholas.A.Laskowski@usace.army.mil>; Maglio, Coraggio K CIV USARMY CESWG (USA) <Coraggio.K.Maglio@usace.army.mil>; Mairs, Lisa Mccracken CIV USARMY CESWG (USA) <Lisa.M.Mairs@usace.army.mil>; Marik, Marshall A CIV USARMY CESWG (USA) <Marshall.A.Marik@usace.army.mil>; Martin, Susan E CIV USARMY CESWG (USA) <Susan.E.Martin@usace.army.mil>; Meyer, Alton H III CIV USARMY CESWG (US) <alton.h.meyer@usace.army.mil>; Misir, Shakhar D CIV USARMY CESWG (US) <shakhar.d.misir@usace.army.mil>; Moore, Randy E CIV CESWG CESWD (US) <randy.e.moore@usace.army.mil>; Morgan, Jennifer B CIV USARMY CESWG (US)

Jones, Robert N CIV USARMY CESWG (USA)

From: Edwards, Aron S CIV USARMY CESWG (USA)
Sent: Tuesday, July 30, 2019 11:42 AM
To: Jones, Seth W CIV CESWG CESWD (USA); Jones, Robert N CIV USARMY CESWG (USA)
Cc: Garcia, Francisco T Jr CIV USARMY CESWG (USA)
Subject: FW: REGULATORY Internal Review Request - S: 2 August 2019 - GIWW, REDFISH BAY, CORPUS CHRISTI SHIP CHANNEL, San Patricio and Nueces Counties, Texas - SWG-2018-00789
Attachments: SWG-2018-00789 IR Axis Midstream.docx; SWG-2018-00789 IR Plans.pdf
Classification: UNCLASSIFIED

From the Operations Division, Navigation Branch perspective:

ADJACENT FEDERAL INTEREST, MAY EFFECT, INFO NEEDED: There is a Federal Interest in the vicinity of the project area. Additional information is needed to determine if the proposed project could impact the adjacent Federal Interest. The permit application package has been forwarded to the appropriate Operations Manager (Seth Jones) for further review.

Aron Edwards
Operations Manager
Navigation Branch
USACE, Galveston District
P.O. Box 1229
Galveston, Texas 77553-1229
409-766-3028 (office)
409-974-0342 (cell)

-----Original Message-----

From: Trant, Angela G CIV USARMY CESWG (USA)
Sent: Monday, July 29, 2019 8:29 AM
To: Androy, Jerry L CIV USARMY CESWG (US) <Jerry.L.Androy@usace.army.mil>; Botello, Janet T CIV USARMY CESWG (USA) <janet.t.botello@usace.army.mil>; Bowles, Richard L CIV USARMY CESWG (US) <Richard.L.Bowles@usace.army.mil>; Brown, Harmon III CIV USARMY CESWF (US) <Harmon.Brown@usace.army.mil>; Brown, Karl B CIV USARMY CESWG (USA) <karl.b.brown@usace.army.mil>; Brown, Rhonda G CIV USARMY CESWG (USA) <Rhonda.G.Brown@usace.army.mil>; Bunker, Kurt M CIV USARMY CESWG (USA) <Kurt.M.Bunker@usace.army.mil>; Burks-Copes, Kelly A CIV USARMY CESWG (US) <Kelly.A.Burks-Copes@usace.army.mil>; Carelock, Donald W CIV USARMY CESWG (US) <donald.w.carelock@usace.army.mil>; CATANZARO, Andrea K CIV USARMY CESWG (USA) <Andrea.K.Catanzaro@usace.army.mil>; Craft, Franchelle E CIV USARMY CESWG (US) <Franchelle.E.Craft@usace.army.mil>; Croft, Bradley D CIV USARMY CESWG (USA) <Bradley.D.Croft@usace.army.mil>; Darko-Kagya, Kenneth K CIV USARMY CESWG (USA) <Kenneth.K.Darko-Kagya@usace.army.mil>; Davidson, John P II CIV USARMY CESWG (USA) <John.P.Davidson@usace.army.mil>; Davis, Andria E CIV USARMY CESWG (US) <Andria.E.Davis@usace.army.mil>; Edwards, Aron S CIV USARMY CESWG (USA) <Aron.S.Edwards@usace.army.mil>; Gonzalez, Michael D CIV USARMY CESWG (US) <Michael.D.Gonzalez@usace.army.mil>; HEINLY, Robert W CIV USARMY CESWG (USA) <Robert.W.Heinly@usace.army.mil>; Hernandez, Pablo CIV USARMY CESWG (USA) <Pablo.Hernandez@usace.army.mil>; Irigoyen, Eduardo CIV (USA) <Eduardo.Irigoyen@usace.army.mil>; Jaynes, Kenneth E CIV USARMY CESWG (US) <Kenneth.E.Jaynes@usace.army.mil>; Johnson, Darrell W CIV USARMY CESWG (US) <Darrell.W.Johnson@usace.army.mil>; Laskowski, Nicholas A (Nick) CIV USARMY CESWG (USA) <Nicholas.A.Laskowski@usace.army.mil>; Maglio, Coraggio K CIV USARMY CESWG (USA)

Jones, Robert N CIV USARMY CESWG (USA)

From: Ganczak, Robert <rganczak@projectconsulting.com>
Sent: Tuesday, July 30, 2019 1:48 PM
To: Jones, Robert N CIV USARMY CESWG (USA)
Cc: Leonhard, Richard
Subject: [Non-DoD Source] FW: Axis Midstream Holdings, Inc. - Midway to Harbor Island Project (SWG-2018-00789)

Bobby:

Just wanted to follow up regarding the possible meeting on 8/8/2019. Please let me know the best time for you and Dwayne. I can send out a meeting request once I have that information. Thanks!

Bob

-----Original Message-----

From: Ganczak, Robert
Sent: Friday, July 26, 2019 11:58 AM
To: Jones, Robert N CIV USARMY CESWG (USA) <Robert.N.Jones2@usace.army.mil>
Cc: Leonhard, Richard <rleonhard@projectconsulting.com>
Subject: RE: Axis Midstream Holdings, Inc. - Midway to Harbor Island Project (SWG-2018-00789)

Bobby:

Thanks for your response. I will cancel the JEM. I would like to schedule the 8/8/2019 afternoon meeting with you and Dwayne. I believe that meeting will be much more productive. I will call your cell as requested this afternoon.

Bob

-----Original Message-----

From: Jones, Robert N CIV USARMY CESWG (USA) <Robert.N.Jones2@usace.army.mil>
Sent: Friday, July 26, 2019 11:03 AM
To: Ganczak, Robert <rganczak@projectconsulting.com>
Cc: Leonhard, Richard <rleonhard@projectconsulting.com>
Subject: RE: Axis Midstream Holdings, Inc. - Midway to Harbor Island Project (SWG-2018-00789)

Bob:

Thanks Bob. That's fine, I know I didn't do what I said, and know I am doing all I can. Right now, it's just the way things are. I wish I could get into more detail, but honestly this is getting to be a skipping record with me. Truth is it's the reality right now. We have staffing challenges, project management challenges throughout our district. I wish I could tell you better news. I can say I went through the additional info and everything is there I believe. I completely understand that your patience is wearing thin. I do and I completely emphasize with that. All I can do I apologize but I know it is not enough.

I will see you on the 6th when it gets scheduled. Honestly, think it would be a waste of time and a meeting with me and Dwayne might serve you better. I will be out Aug 1-5, returning 6th, and likely not have much time to focus on a JEM that day, but a meeting maybe Thursday afternoon the 8th might be appropriate. By then we will have a better idea on a path forward.

Jones, Robert N CIV USARMY CESWG (USA)

From: Jones, Robert N CIV USARMY CESWG (USA)
Sent: Monday, August 5, 2019 8:29 AM
To: 'Ganczak, Robert'
Subject: RE: Axis Midstream Holdings, LLC - Midway to Harbor Island Project (SWG-2018-00789), path forward

Bob:

Thursday afternoon is no longer available. I forgot we established that was our "Engineers Day" since we don't take part in the one up there. Also, Thursday morning I have meeting from 1030-1130 (from which we will be closed the rest of the day).

Friday is no good either. Tomorrow and Wednesday I am strictly project work. It will have to be next week. Shoot me another day.

Bobby Jones, CCRFO, Reg PM
Desk: 361-814-5847x1010
Mobile: 361-558-3766

-----Original Message-----

From: Ganczak, Robert [mailto:rganczak@projectconsulting.com]
Sent: Monday, August 5, 2019 6:48 AM
To: Jones, Robert N CIV USARMY CESWG (USA) <Robert.N.Jones2@usace.army.mil>
Subject: [Non-DoD Source] RE: Axis Midstream Holdings, LLC - Midway to Harbor Island Project (SWG-2018-00789), path forward

Will do.

From: Jones, Robert N CIV USARMY CESWG (USA) <Robert.N.Jones2@usace.army.mil>
Sent: Monday, August 05, 2019 6:38 AM
To: Ganczak, Robert <rganczak@projectconsulting.com>; Leonhard, Richard <rleonhard@projectconsulting.com>; Thomas, Charles <cthomas@projectconsulting.com>
Subject: RE: Axis Midstream Holdings, LLC - Midway to Harbor Island Project (SWG-2018-00789), path forward

Bob, mark is available. Please provide an agenda and list of who will be attending. When you have that resend the invite with those two things attached.

Bobby Jones, CCRFO, Reg PM
Desk: 361-814-5847x1010