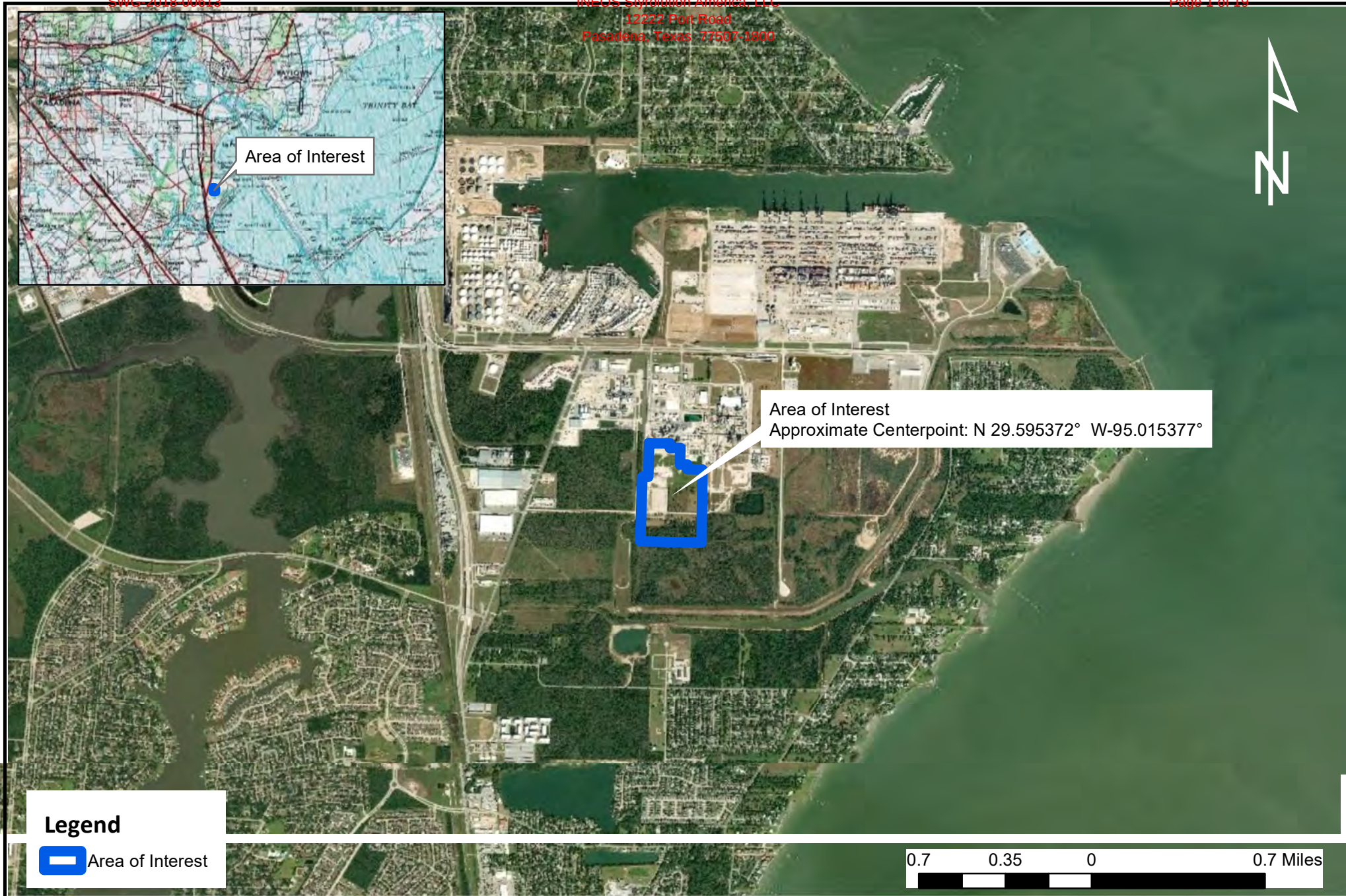
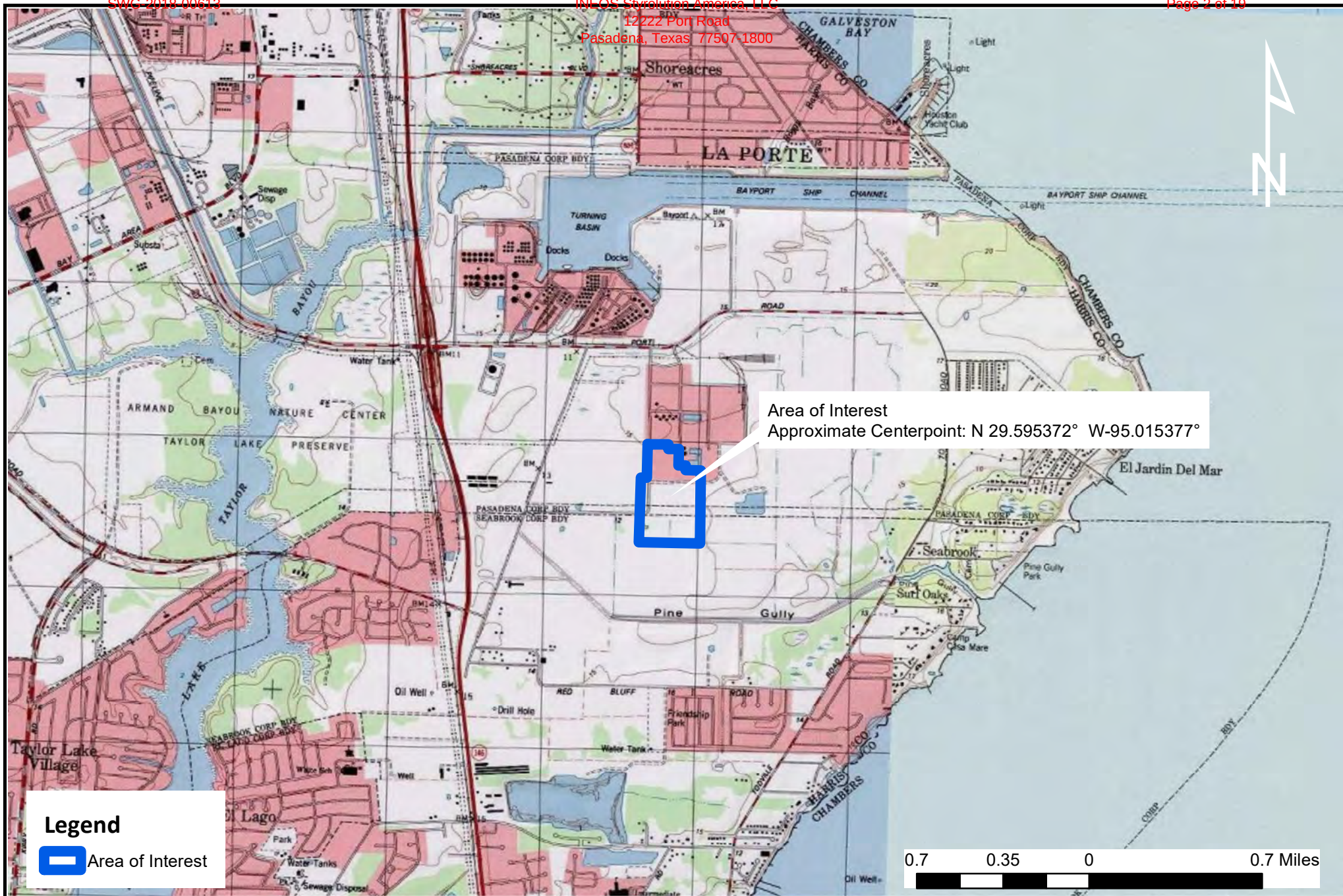
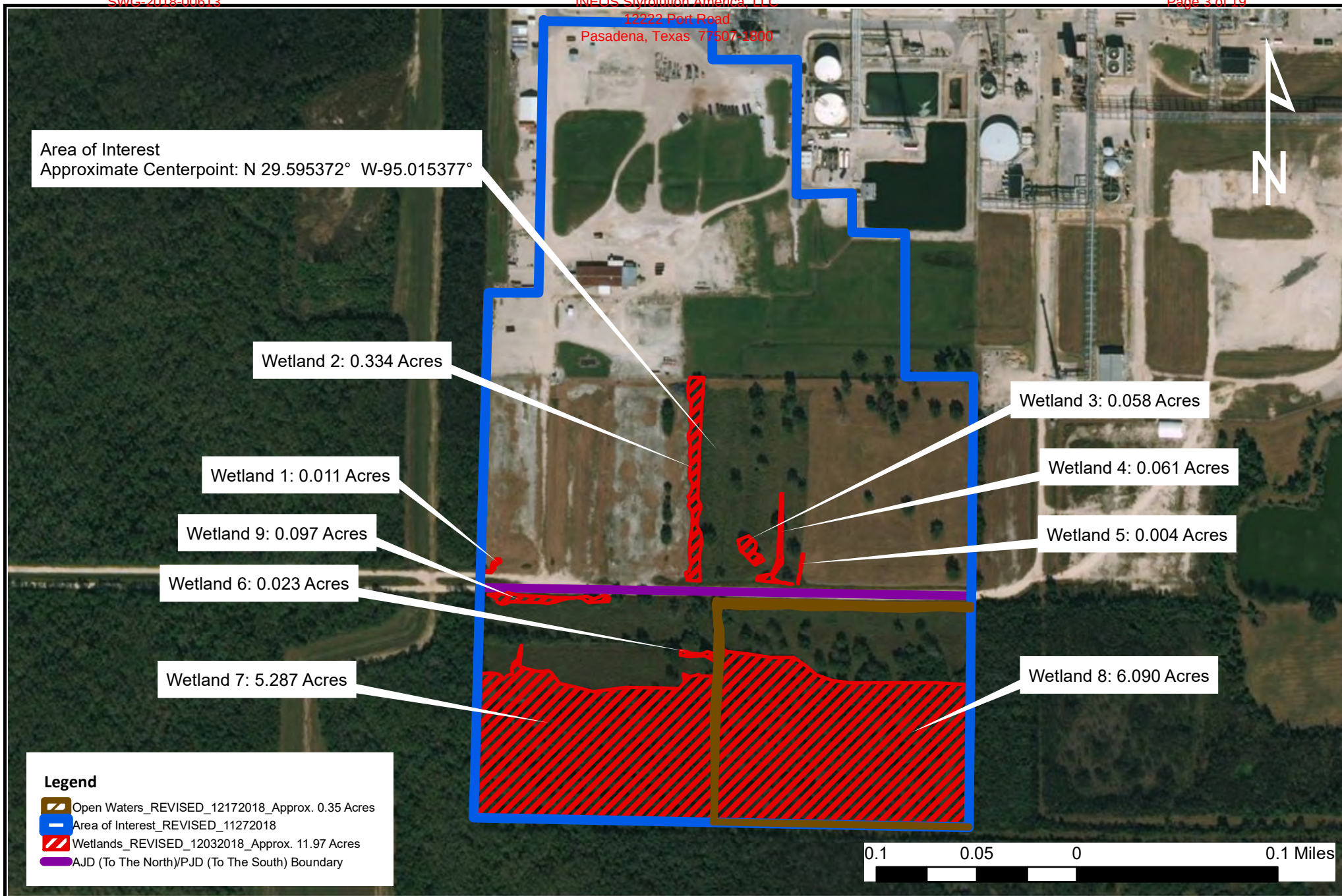


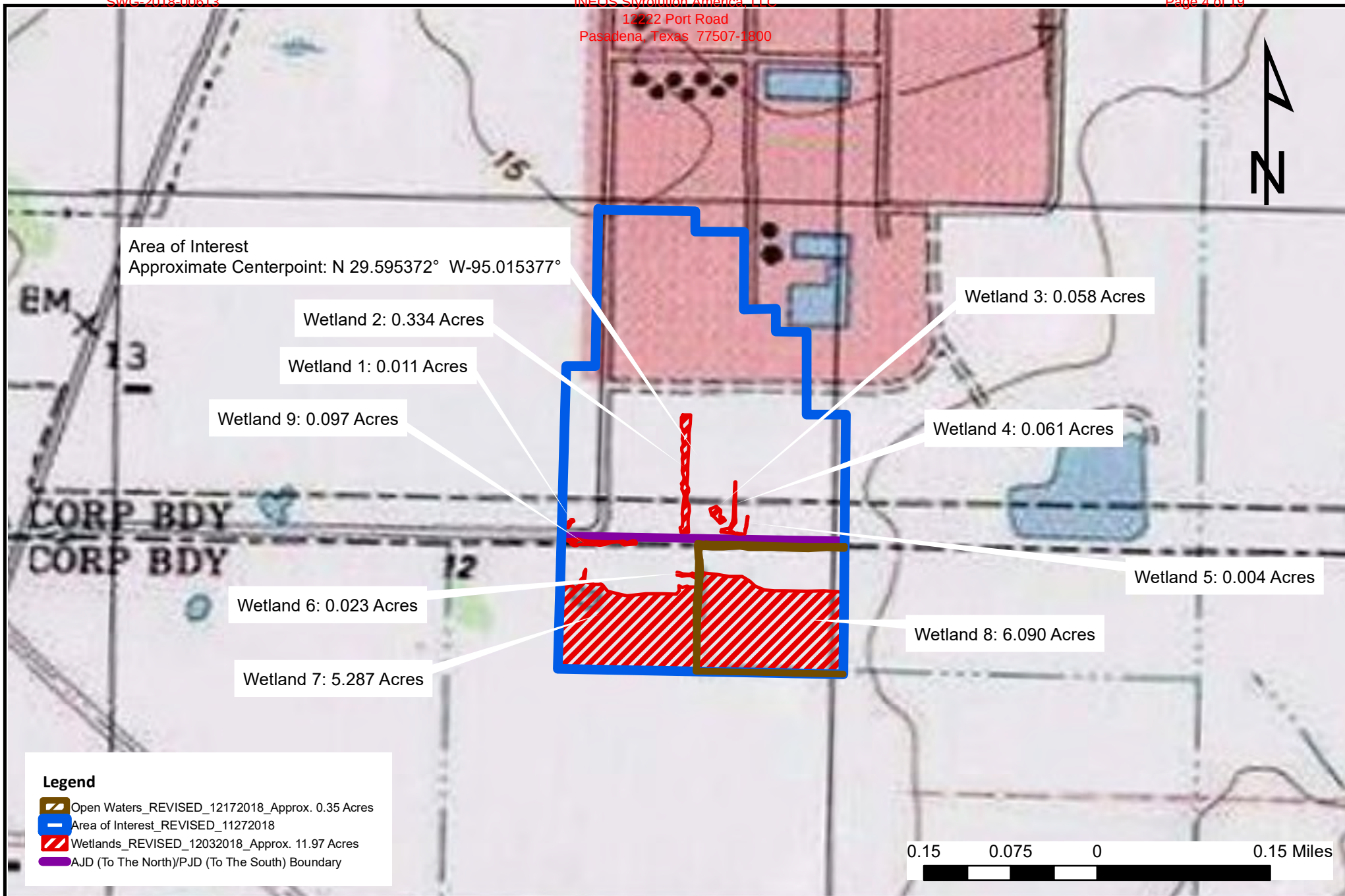




**Figure 2: Vicinity Map- Topographic
INEOS Bayport Facility ESPN Project**



**Figure 3: Wetlands and Waterbodies Map_Revised
INEOS Bayport Facility ESPN Project**



**Figure 4: Wetlands and Waterbodies Map_Topo_ Revised
INEOS Bayport Facility ESPN Project**

National Flood Hazard Layer FIRMette

4923 Port Road
Pasadena, Texas 77507-1800

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

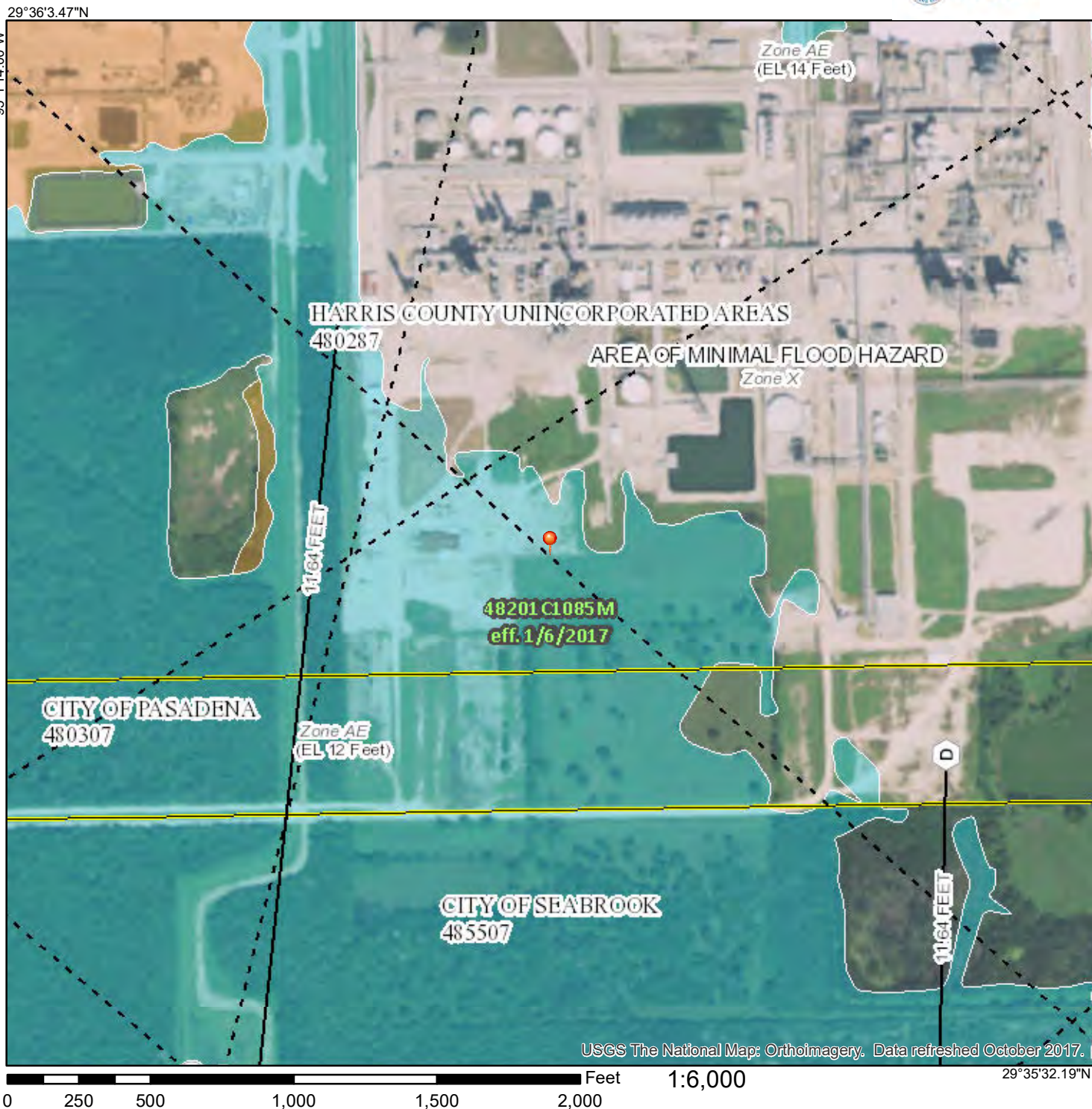


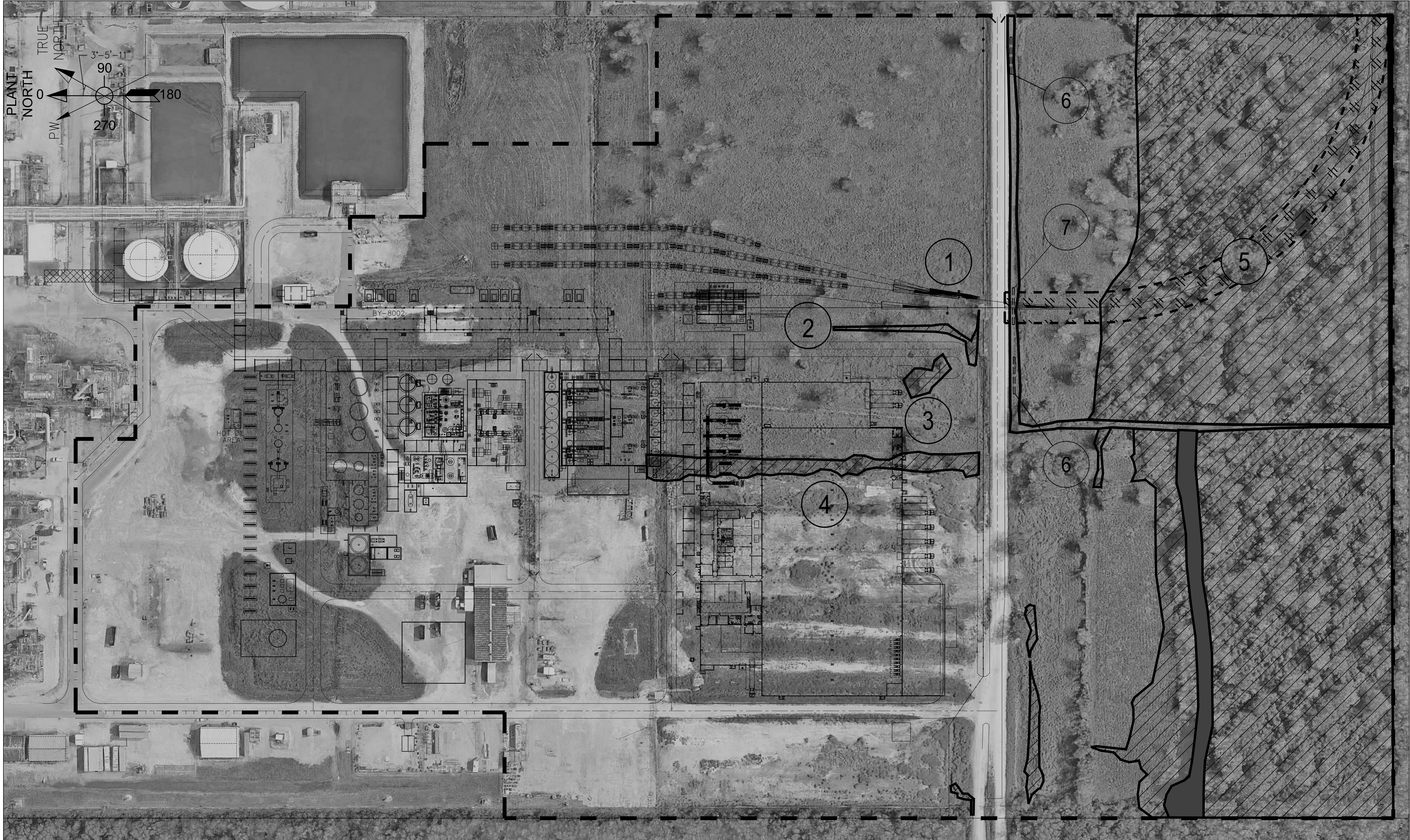
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **10/4/2018 at 1:54:37 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.





SEE WETLANDS PROJECT IMPACT DRAWING
FOR WETLANDS AREA FILL INFORMATION.

D	05/09/2019	ISSUED FOR USE	REE	HC	DS
C	01/16/2019	ISSUED FOR USE	TN	HC	DS
B	01/02/2019	RE-ISSUED FOR WETLAND PERMIT	TN	HC	DS
A	07/24/2018	WETLAND PERMIT DRAWING	RW		
REV	DATE	DESCRIPTION	BY	CHK	APP



WorleyParsons
resources & energy

INEOS
STYROLUTION

CLIENT/PROJECT TITLE
ENHANCED SPECIALTIES PRODUCTION IN NORTH AMERICA (ESPN)

PROJECT NO.
208005-00071
WP#: 208005-00071-00-CI-DSK-0002

ASA PLANT
AREA X
WETLAND SITE PLAN LOCATIONS
WETLAND PROJECT IMPACT

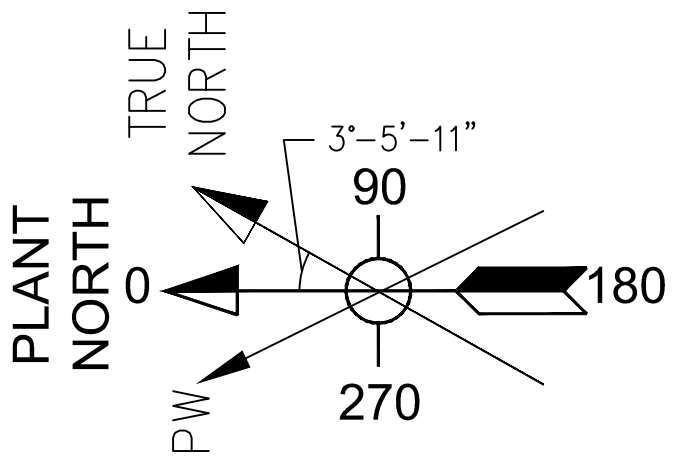
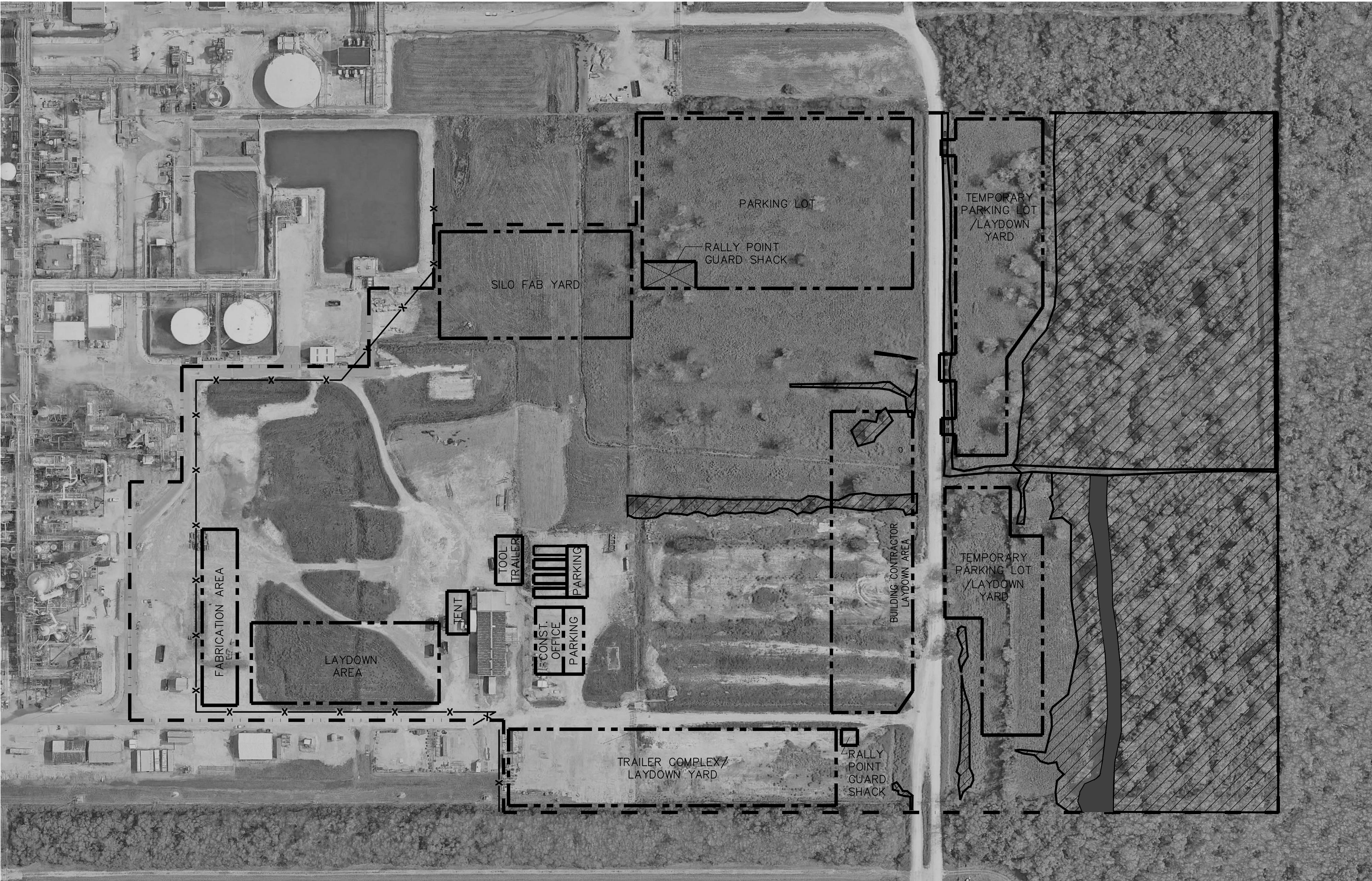
SCALE
1:1000

DWG. NO.	208005-00071-00-CI-DSK-0002	REVISION	D
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LEGEND		
--- FUTURE	WATERS OF THE US	WETLANDS
NEW CONSTRUCTION	AREA OF INTEREST	50' CLEARANCE @ RAILROAD

ASA WETLAND SITE PLAN

NOTE: THIS DRAWING AND THE DATA CONTAINED HEREIN ARE OF A CONFIDENTIAL NATURE AND SHALL BE USED ONLY FOR THE ORIGINAL PURPOSE INTENDED. COPYING IN ANY FORM OR DISTRIBUTION OF THE ORIGINAL OR COPIES SHALL REQUIRE WRITTEN PERMISSION FROM THE DRAWING OWNER.



LEGEND			
--- TEMPORARY	WATERS OF THE US	WETLANDS	
- - - AREA OF INTEREST	TEMPORARY FENCE		
- - - LIMITS OF FAB/LAYDOWN AREA			

ASA WETLAND TEMPORARY SITE PLAN

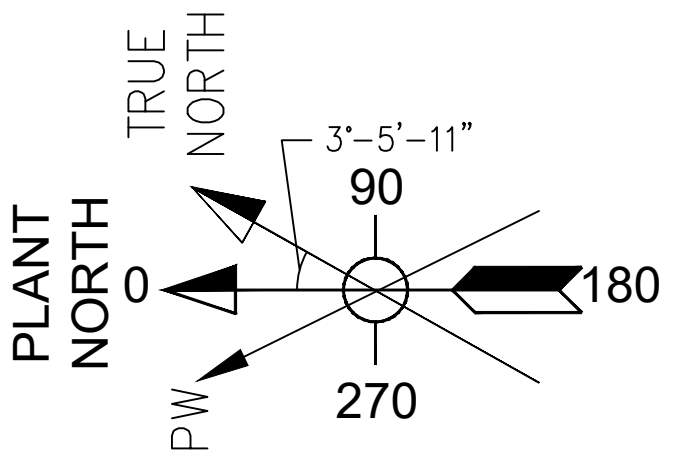
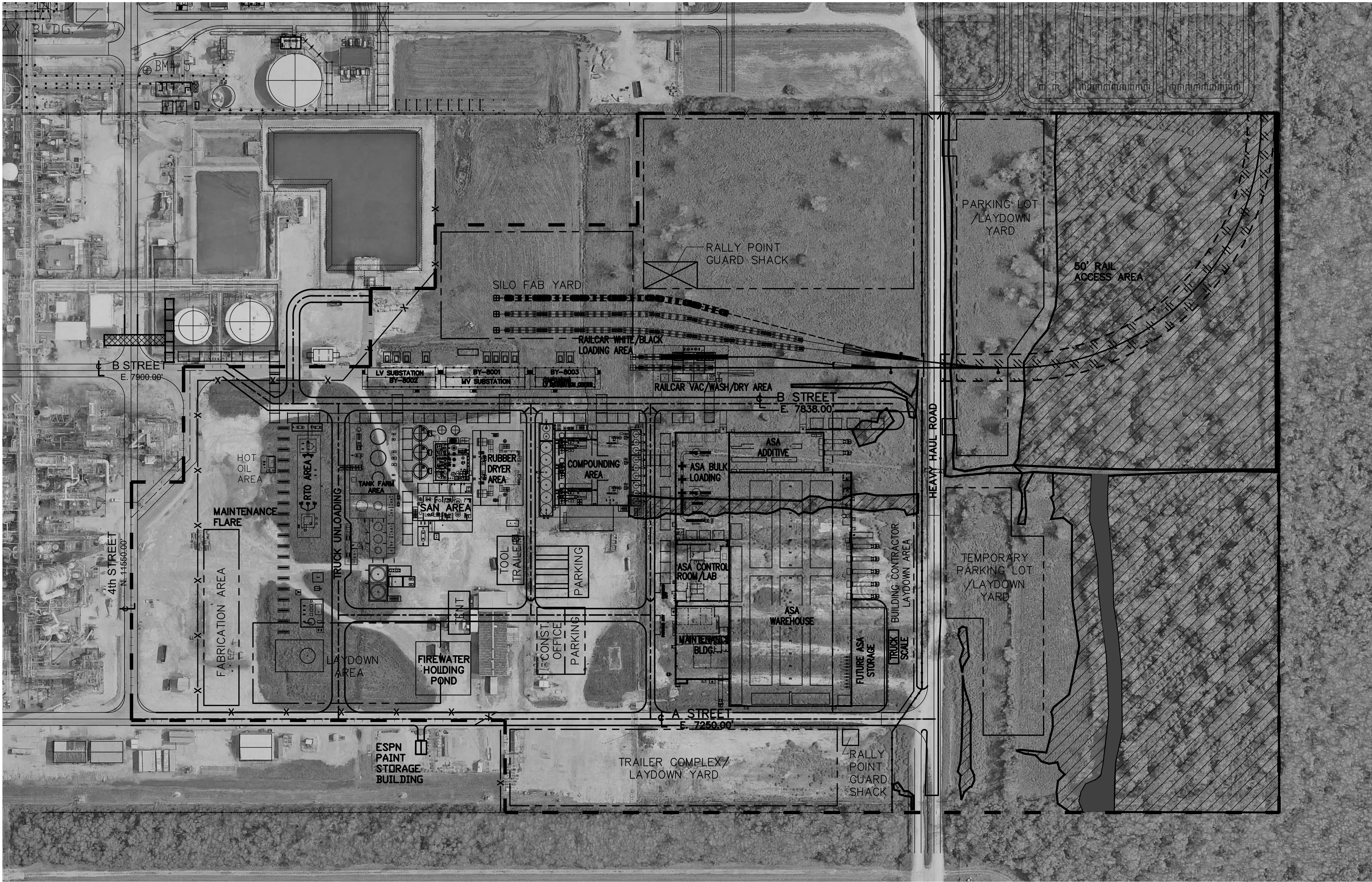
SCALE: 1/96"=1'-0"

D	05/09/2019	ISSUED FOR USE	REE	HC	DS
C	01/16/2019	ISSUED FOR USE	TN	HC	DS
B	01/02/2019	RE-ISSUED FOR WETLAND PERMIT	TN	HC	DS
A	07/24/2018	WETLAND PERMIT DRAWING	RW		
REV	DATE	DESCRIPTION	BY	CHK	APP

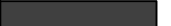
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INEOS STYROLUTION	
CLIENT/PROJECT TITLE ENHANCED SPECIALTIES PRODUCTION IN NORTH AMERICA (ESPN)	
PROJECT NO. 208005-00071 WP#: 208005-00071-00-CI-DSK-0003	
ASA PLANT AREA X ASA WETLAND TEMP, CONSTRUCTION SITE PLAN WETLAND PROJECT IMPACT	
SCALE AS NOTED	
DWG. NO. 208005-00071-00-CI-DSK-0003	REVISION D

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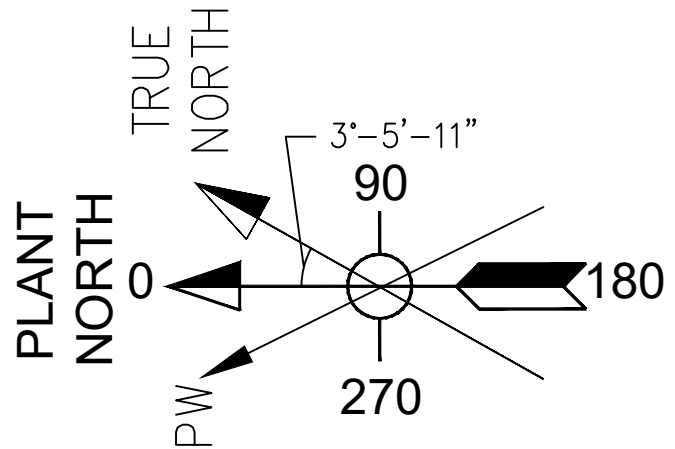
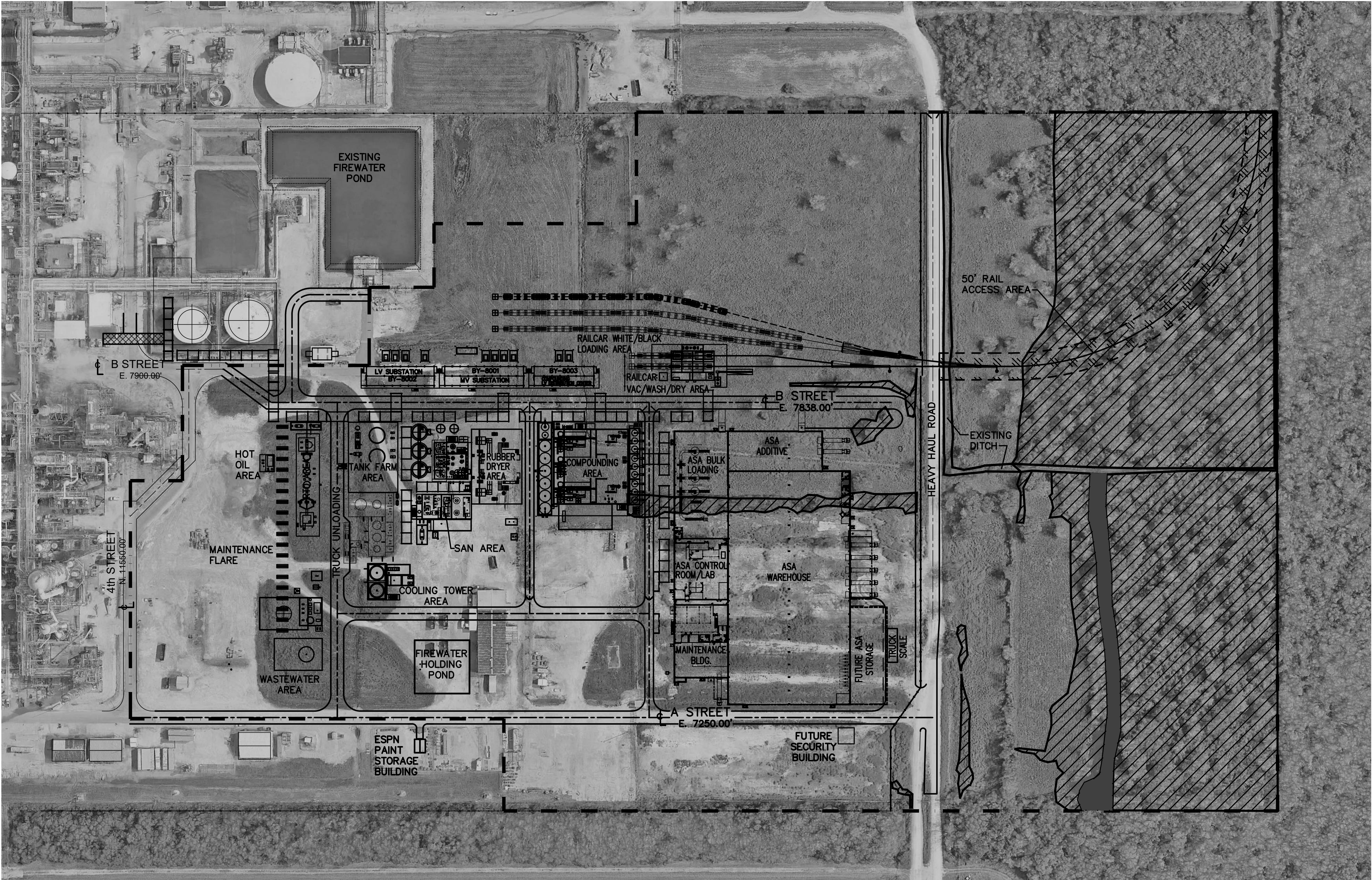


ASA WETLAND OVERALL PLANT PLOT PLAN
(NEW, TEMP & EXIST. WETLAND)
SCALE: 1/96"=1'-0"

LEGEND			
	AREA OF INTEREST	 FUTURE	 TEMPORARY
	NEW CONSTRUCTION		TEMPORARY FENCE
	WATERS OF THE US		WETLANDS
			50' CLEARANCE ⊙ RAILROAD

C	01/16/2019	ISSUED FOR USE	TN	HC	DS	
B	01/02/2019	RE-ISSUED FOR WETLAND PERMIT	TN	HC	DS	
A	07/24/2018	WETLAND PERMIT DRAWING	RW			
REV	DATE	DESCRIPTION	BY	CHK	APP	CLIENT
 WorleyParsons resources & energy INEOS STYROLUTION						
CLIENT/PROJECT TITLE						
ENHANCED SPECIALTIES PRODUCTION IN NORTH AMERICA (ESPN)						
PROJECT NO. 208005-00071 WP#: 208005-00071-00-CI-DSK-0004						
ASA PLANT AREA X WETLAND OVERALL PLAN (NEW, TEMP & EXIST.) WETLAND PROJECT IMPACT						
SCALE AS NOTED						
DWG. NO. 208005-00071-00-CI-DSK-0004						
						REVISION C

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ASA WETLAND PLANT PLOT PLAN

SCALE: 1/96"=1'-0"

LEGEND			
NEW CONSTRUCTION	WATERS OF THE US	WETLANDS	
AREA OF INTEREST	50' CLEARANCE @ RAILROAD		

REV	DATE	DESCRIPTION	BY	CHK	APP	CLIENT
C	01/16/2019	ISSUED FOR USE	TN	HC	DS	
B	01/02/2019	RE-ISSUED FOR WETLAND PERMIT	TN	HC	DS	
A	07/24/2018	WETLAND PERMIT DRAWING	RW			



WorleyParsons
resources & energy

INEOS
STYROLUTION

CLIENT/PROJECT TITLE
ENHANCED SPECIALTIES PRODUCTION IN NORTH AMERICA (ESPN)

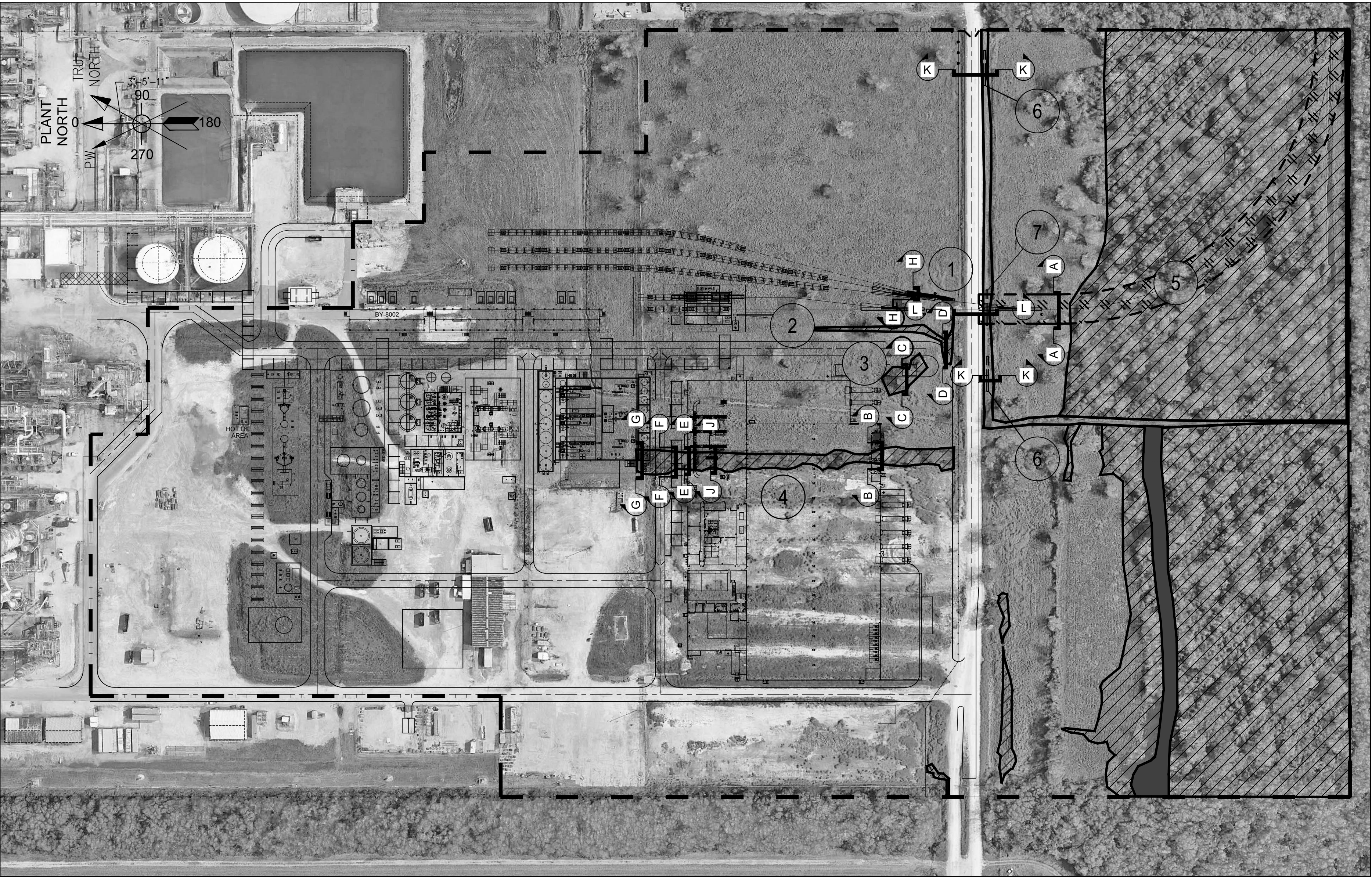
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208005-00071
WP#: 208005-00071-00-CI-DSK-0005

ASA PLANT
AREA X
WETLAND OVERALL PLAN (NEW & EXIST.)
WETLAND PROJECT IMPACT

SCALE
AS NOTED

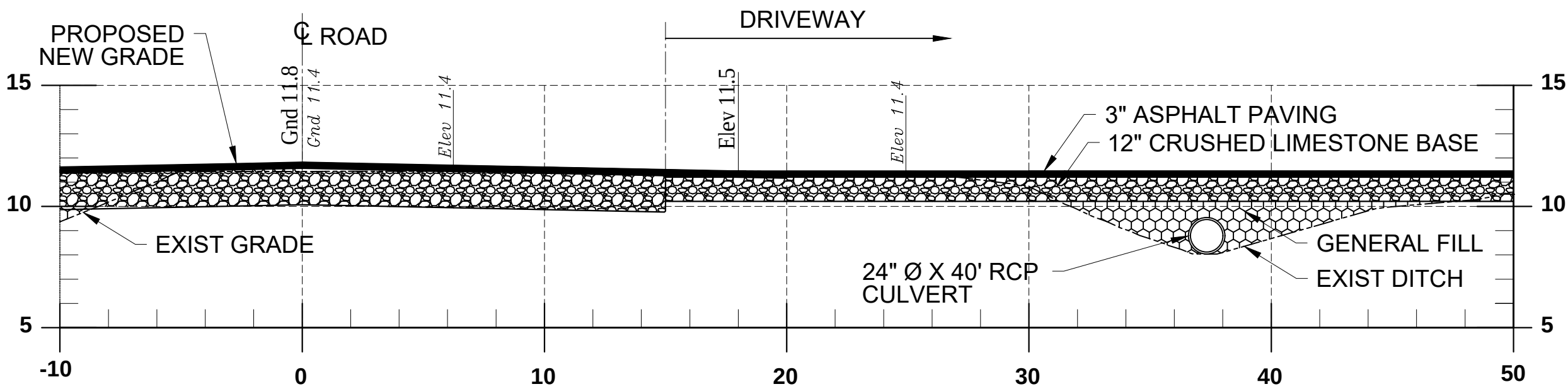
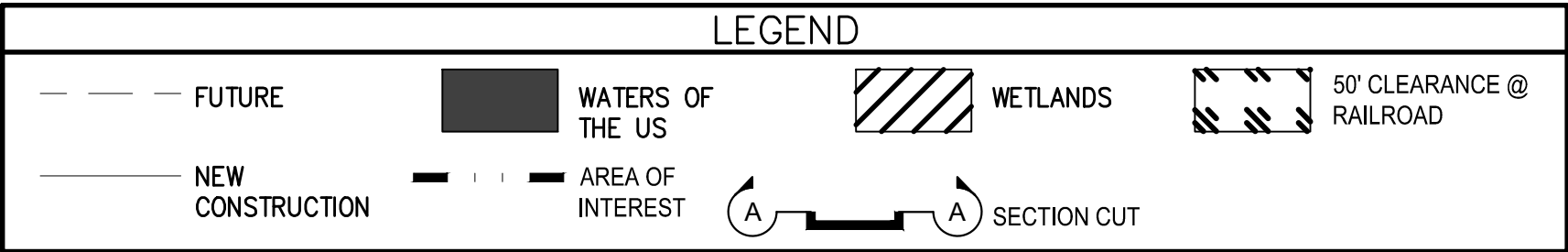
DWG. NO.	REVISION
208005-00071-00-CI-DSK-0005	C

WETLANDS AREA TO BE FILLED				
ID#	FILL MATERIAL	EST. CUT/FILL VOLUME (CY)	WETLAND BACKFILL (CY)	FILL METHOD
1	COMPACTED STRUCTURAL/LIME TREATED FILL		TO ROUGH GRADE ELEVATION 11' - 97 CY	BACKHOE & BULLDOZER
	WETLAND 24" DEMUCKING	65 CY		
	12" LIME TREATED SUBGRADE	SUBGRADE 32 CY		
	14" COMPACTED BALLAST	SUBBALLAST 37.6 CY		
	15" BALLAST	BALLAST 40 CY		
2	COMPACTED STRUCTURAL/LIME TREATED FILL, CRUSHED LIMESTONE AND ASPHALT		TO ROUGH GRADE ELEVATION 11' - 200CY	BACKHOE & BULLDOZER
	WETLAND 24" DEMUCKING	133 CY		
	CRUSHED LIMESTONE PAVING			
	CRUSHED STONE	9.72 CY		
	6" STRUCTURAL FILL	19.51 CY		
	5" THICK ASPHALT	11.4 CY		
3	8" CRUSHED LIMESTONE BASE	22.8 CY	TO ROUGH GRADE ELEVATION 11' - 200CY	BACKHOE & BULLDOZER
	8" STABILIZED SUBGRADE	22.8 CY		
	COMPACTED STRUCTURAL/LIME TREATED FILL, CRUSHED LIMESTONE AND REINFORCED CONCRETE			
	WETLAND 24" DEMUCKING	257 CY		
	CRUSHED LIMESTONE PAVING (3" THICK)			
	CRUSHED STONE	16 CY		
4	6" STRUCTURAL FILL	32 CY	TO ROUGH GRADE ELEVATION 11' - 1500CY	BACKHOE & BULLDOZER
	FINISH PAVING			
	CONCRETE	43 CY		
	CRUSHED LIMESTONE BASE	33 CY		
	STRUCTURAL FILL SUB BASE	33 CY		
	COMPACTED STRUCTURAL/LIME TREATED FILL, CRUSHED LIMESTONE, ASPHALT AND REINFORCED CONCRETE		TO ROUGH GRADE ELEVATION 11' - 1500CY	BACKHOE & BULLDOZER
5	WETLAND 24" DEMUCKING	1244 CY		
	CRUSHED LIMESTONE PAVING (3" THICK)			
	CRUSHED STONE	19 CY		
	6" STRUCTURAL FILL	42 CY		
	FINISH PAVING			
	CONCRETE	110 CY		
6	CRUSHED LIMESTONE BASE	80 CY	TO ROUGH GRADE ELEVATION 11'-8.5' 13550 CY	BACKHOE & BULLDOZER
	STRUCTURAL FILL SUB BASE	80 CY		
	BUILDING FOUNDATION (ASSUME 3" MAT FDN.)			
	CONCRETE	1072 CY		
	ASPHALT ROAD			
	ASPHALT	10.5 CY		
7	8" CRUSHED LIMESTONE BASE	21 CY	TO ROUGH GRADE ELEVATION 11'-8.5' 13550 CY	BACKHOE & BULLDOZER
	8" STABILIZED SUBGRADE	21 CY		
	COMPACTED STRUCTURAL/LIME TREATED FILL AND CRUSHED LIMESTONE			
	STRIPPING/GRUBBING (CUT)	4926 CY		
	50' RAILROAD ACCESS			
	ITEMS ABOVE ROUGH GRADE			
8	20" BALLAST	3287 CY	NONE	BACKHOE & BULLDOZER
	14" COMPACTED SUBBALLAST	3311 CY		
	12" LIME TREATED SUBGRADE	3247.5 CY		
	ASPHALT FOR TEMPORARY PARKING ACCESS	22 CY (FOR 2 DRIVEWAYS)		
	COMPACTED CRUSHED CONCRETE FILL	90 CY (FOR 2 DRIVEWAYS)		
	(2) 24"Ø RCP CULVERT	80.00' (FOR 2 DRIVEWAYS)		
9	NATURAL COMPETENT SOIL OR GENERAL FILL	36 CY (FOR 2 DRIVEWAYS)	NONE	BACKHOE & BULLDOZER
	ITEMS ABOVE ROUGH GRADE			
	20" BALLAST	3 CY		
	14" COMPACTED SUBBALLAST	1 CY		
	12" LIME TREATED SUBGRADE	0.5 CY		
	24"Ø RCP CULVERT	40.00'		



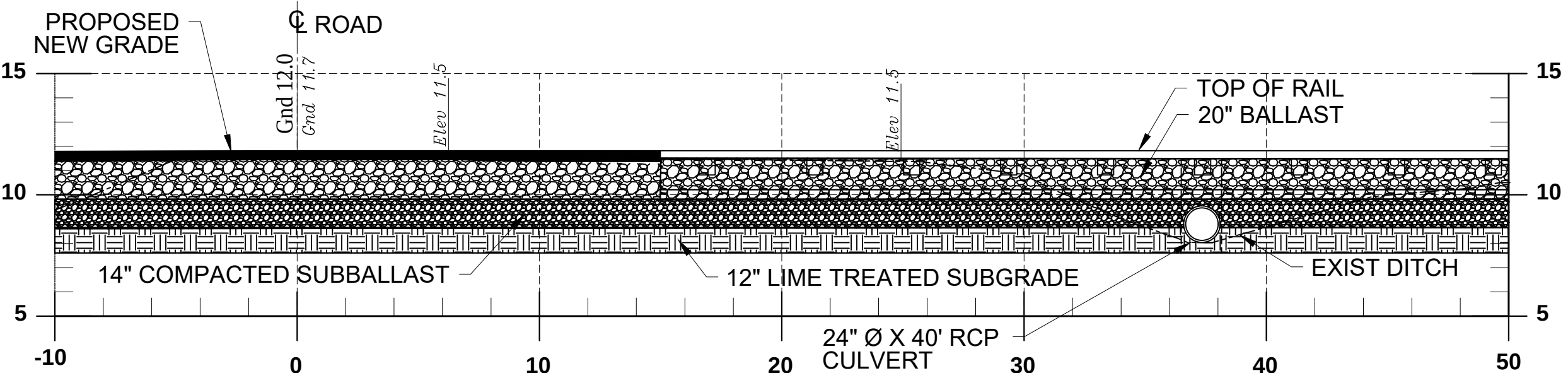
ASA WETLAND SITE PLAN

SCALE: 1"=120'-0"



SECTION "K" - CULVERT FOR PARKING LOT ACCESS

SCALE: 1"=60'
(SIMILAR 2 PLACES)



SECTION "L" - CULVERT UNDER RAIL TRACK CROSSING

SCALE: 1"=60'

D	05/09/2019	ISSUED FOR USE	RE	HC	DS
C	01/16/2019	ISSUED FOR USE	TN	HC	DS
B	01/02/2019	RE-ISSUED FOR WETLAND PERMIT	TN	HC	DS
A	07/24/2018	WETLAND PERMIT DRAWING	RW		
REV	DATE	DESCRIPTION	BY	CHK	APP



INEOS
STYROLUTION

CLIENT/PROJECT TITLE
ENHANCED SPECIALTIES PRODUCTION IN NORTH AMERICA (ESPN)

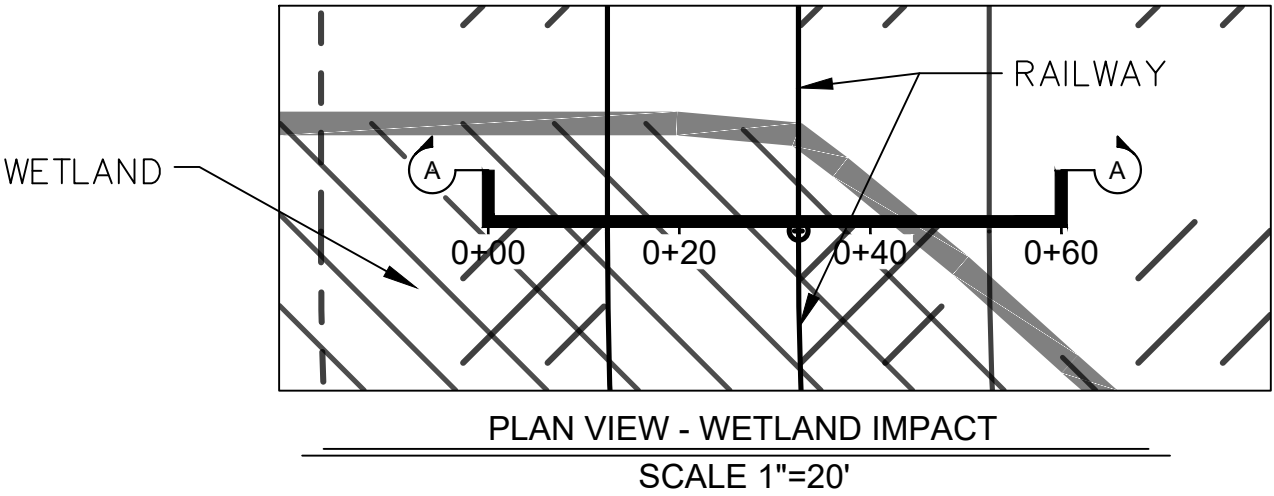
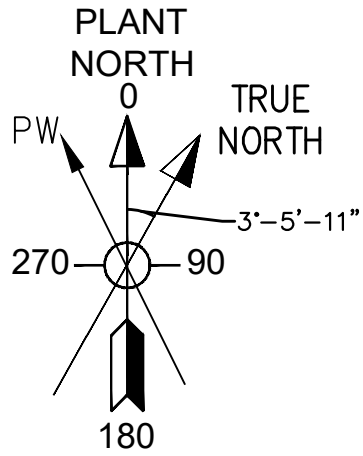
PROJECT NO.
208005-00071
WP#: 208005-00071-00-CI-DSK-0006

ASA PLANT
AREA X
SITE PLAN /SECTION LOCATIONS
WETLAND PROJECT IMPACT

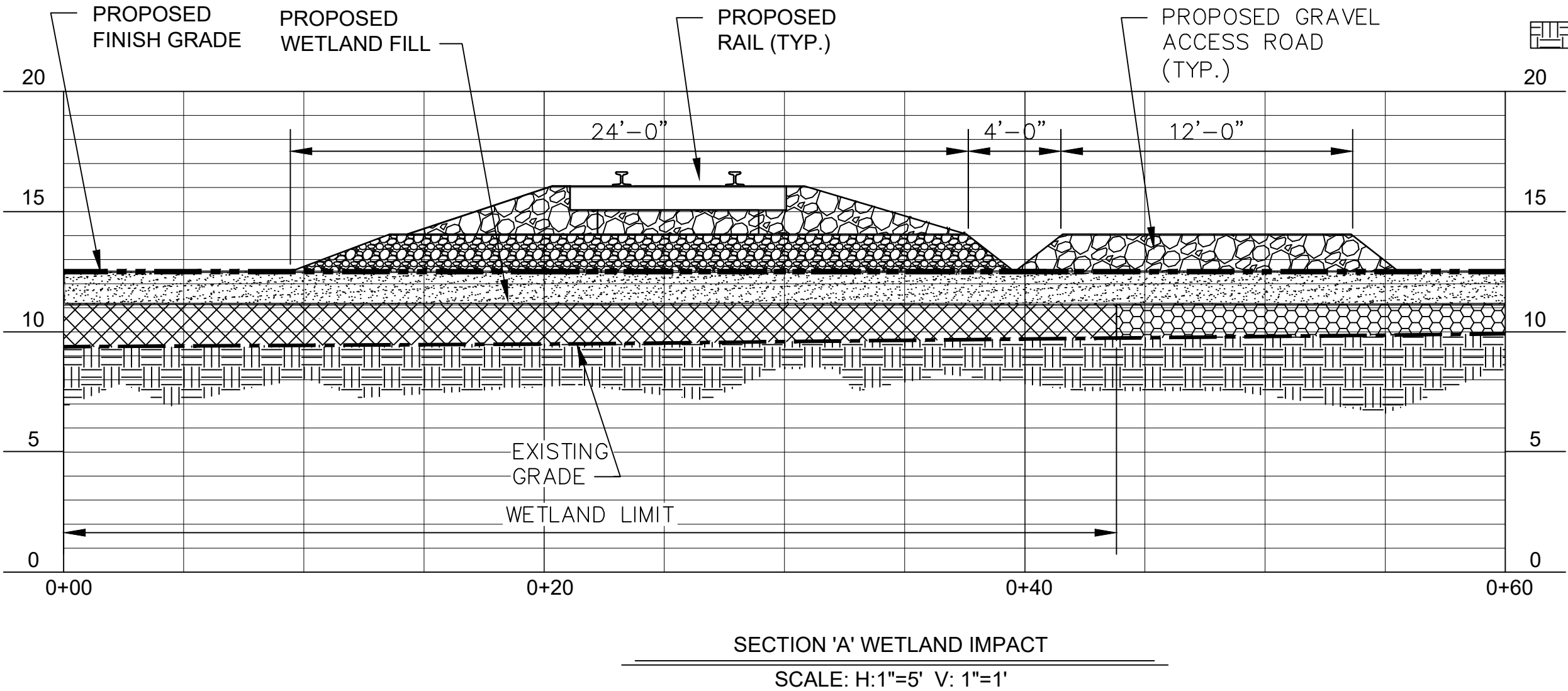
SCALE
AS NOTED

DWG. NO.	208005-00071-00-CI-DSK-0006	REVISION	D
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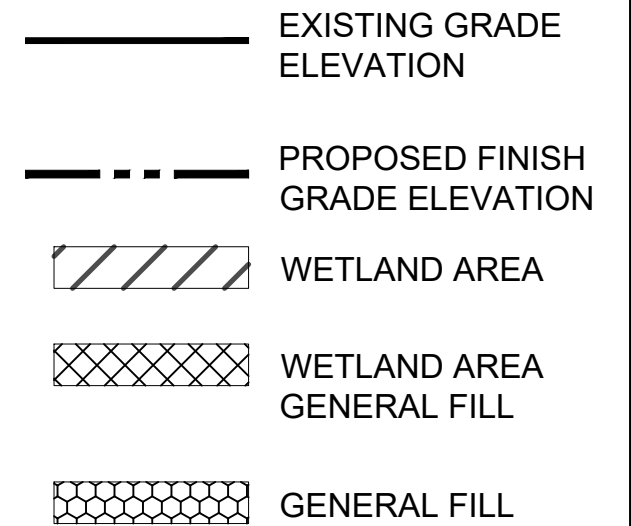
NOTE: THIS DRAWING AND THE DATA CONTAINED HEREIN ARE OF A CONFIDENTIAL NATURE AND SHALL BE USED ONLY FOR THE ORIGINAL PURPOSE INTENDED. COPYING IN ANY FORM OR DISTRIBUTION OF THE ORIGINAL OR COPIES SHALL REQUIRE WRITTEN PERMISSION FROM THE DRAWING OWNER.



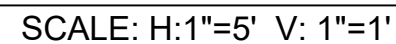
- EXISTING GRADE ELEVATION
- PROPOSED FINISH GRADE ELEVATION
- WETLAND AREA
- WETLAND AREA GENERAL FILL
- GENERAL FILL
- CRUSHED LIMESTONE
- GRAVEL/BALLAST
- COMPACTED GRAVEL/COMPACTED BALLAST
- SUB GRADE



C	01/16/2019	ISSUED FOR USE		TN	HC	DS	
B	01/02/2019	RE-ISSUED FOR WETLAND PERMIT		TN	HC	DS	
A	07/24/2018	WETLAND PERMIT DRAWING		RW	HC	DS	
REV	DATE	DESCRIPTION		BY	CHK	APP	CLIENT
WorleyParsons resources & energy							
INEOS STYROLUTION							
CLIENT/PROJECT TITLE							
ENHANCED SPECIALTIES PRODUCTION IN NORTH AMERICA (ESPN)							
PROJECT NO. 208005-00071 WP#: 208005-00071-00-CI-DSK-0007							
ASA PLANT AREA X SECTION 'A' WETLAND PROJECT IMPACT							
SCALE AS NOTED							
DWG. NO. 208005-00071-00-CI-DSK-0007				REVISION C			



SCALE 1"=20'



C	01/16/2019	ISSUED FOR USE	TN	HC	DS	
B	01/02/2019	RE-ISSUED FOR WETLAND PERMIT	TN	HC	DS	
A	07/24/2018	WETLAND PERMIT DRAWING	RN			
REV	DATE	DESCRIPTION	BY	CHK	APP	CLIENT



INEOS
STYROLUTION

CLIENT/PROJECT TITLE

ENHANCED SPECIALTIES PRODUCTION IN NORTH AMERICA (ESPN)

PROJECT NO.

208005-00071

WP#: 208005-00071-00-CI-DSK-0008

ASA PLANT
AREA X
SECTION 'B'
WETLAND PROJECT IMPACT

SCALE

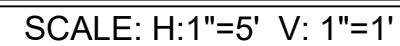
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DWG. NO.	
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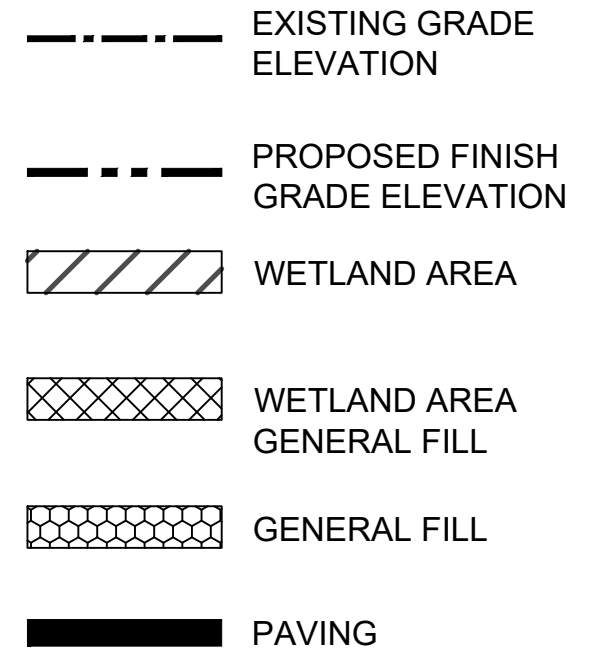
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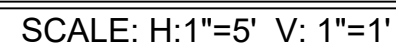
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C	01/16/2019	ISSUED FOR USE				TN	HC	DS	
B	01/02/2019	RE-ISSUED FOR WETLAND PERMIT				TN	HC	DS	
A	07/24/2018	WETLAND PERMIT DRAWING				RW			
REV	DATE	DESCRIPTION				BY	CHK	APP	CLIENT
 WorleyParsons <u>resources & energy</u>									
INEOS STYROLUTION									
CLIENT/PROJECT TITLE									
ENHANCED SPECIALTIES PRODUCTION IN NORTH AMERICA (ESPN)									
PROJECT NO.									
208005-00071									
WP#: 208005-00071-00-CI-DSK-0009									
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SCALE									
AS NOTED									
DWG. NO.						REVISION			
208005-00071-00-CI-DSK-0009						C			

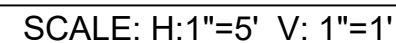
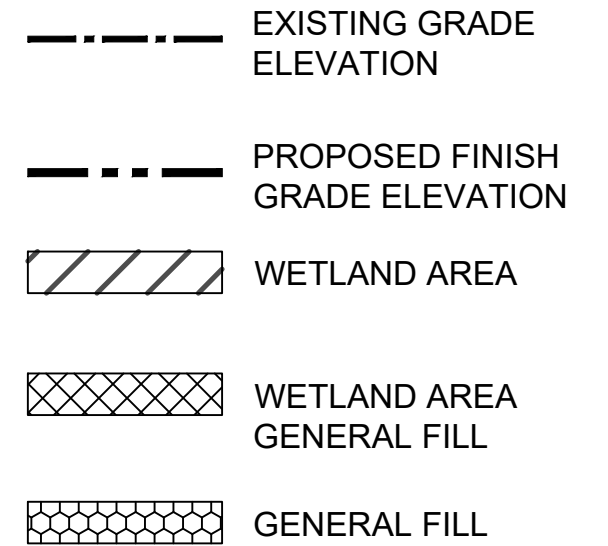


SCALE 1"=20'



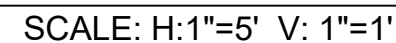
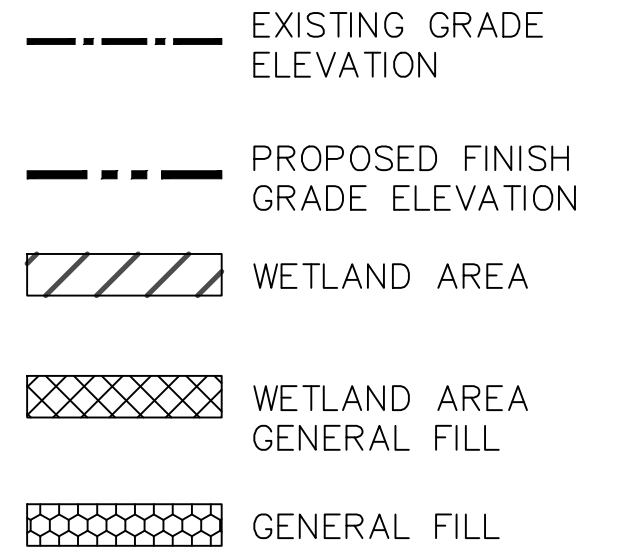
DWG. NO.	208005-00071-00-CI-DSK-0010	REVISION	C
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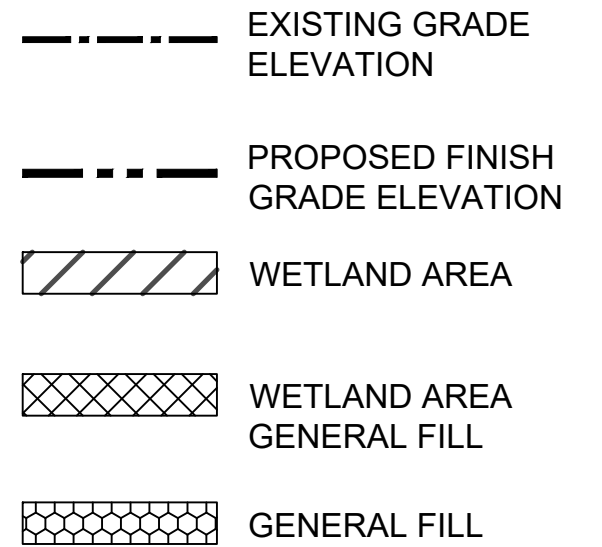
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A	07/24/2018	WETLAND PERMIT DRAWING				RW			
REV	DATE	DESCRIPTION				BY	CHK	APP	CLIENT
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INEOS STYROLUTION									
CLIENT/PROJECT TITLE									
ENHANCED SPECIALTIES PRODUCTION IN NORTH AMERICA (ESPN)									
PROJECT NO.									
208005-00071									
WP#: 208005-00071-00-CI-DSK-0011									
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SCALE									
AS NOTED									
DWG. NO.								REVISION	
208005-00071-00-CI-DSK-0011								C	

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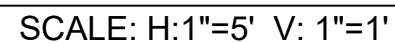


DWG. NO.	208005-00071-00-CI-DSK-0012	REVISION	6
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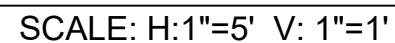
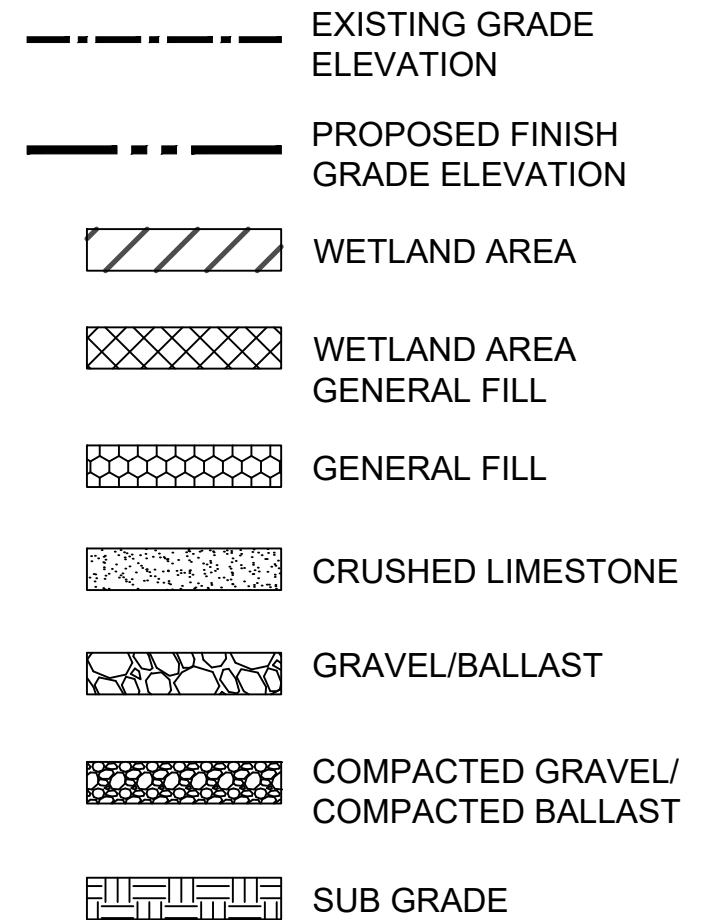


SCALE 1"=20'



DWG. NO.	208005-00071-00-CI-DSK-0013	REVISION	1
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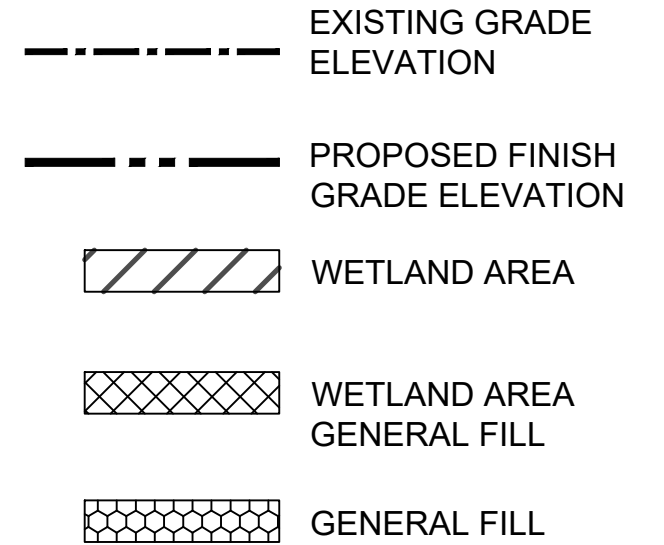
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C	01/16/2019	ISSUED FOR USE	TN	HC	DS				
B	01/02/2019	RE-ISSUED FOR WETLAND PERMIT	TN	HC	DS				
A	07/24/2018	WETLAND PERMIT DRAWING	RW						
REV	DATE	DESCRIPTION	BY	CHK	APP	CLIENT			
									
INEOS STYROLUTION									
CLIENT/PROJECT TITLE ENHANCED SPECIALTIES PRODUCTION IN NORTH AMERICA (ESPN)									
PROJECT NO. 208005-00071 WP#: 208005-00071-00-CI-DSK-0014									
ASA PLANT AREA X SECTION 'H' WETLAND PROJECT IMPACT									
SCALE AS NOTED									
DWG. NO. 208005-00071-00-CI-DSK-0014							REVISION C		

7 x 11

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SCALE 1"=20'



SCALE: H:1"=5' V: 1"=1'

DWG. NO.	208005-00071-00-CI-DSK-0015	REVISION	C
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17 x 11

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