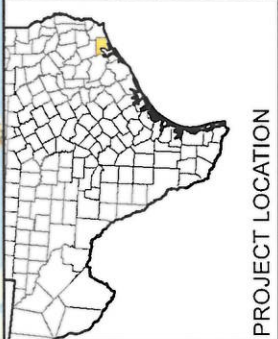
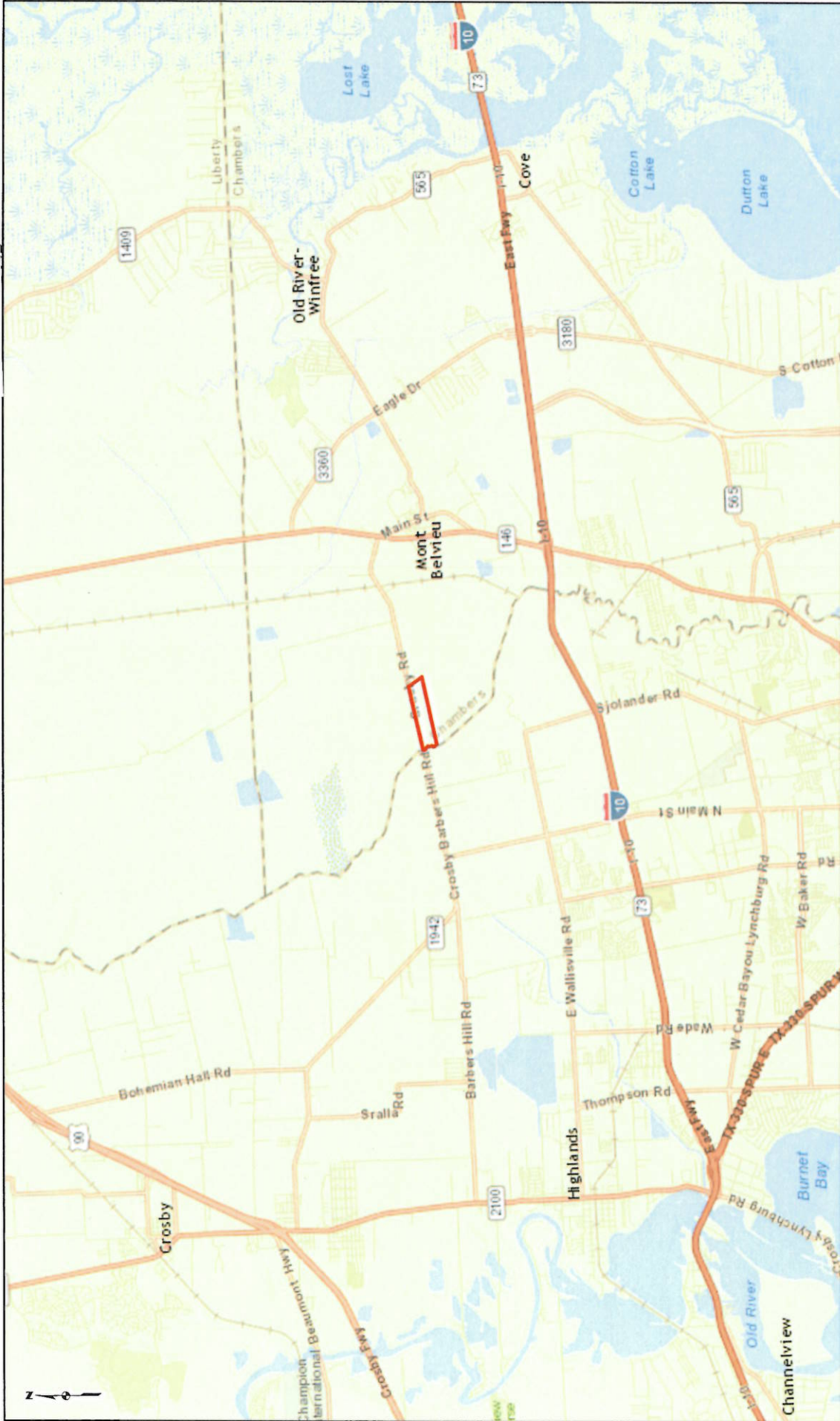


NOV 24 2017



REFERENCE:
 WORLD STREETMAP, OBTAINED
 THROUGH ESRI ARCGIS ONLINE,
 © 2012 ESRI, DeLORME, NAVTEQ,
 TOMTOM, ACCESSED 09/2017.

LEGEND
 134-ACRE STUDY AREA

*SWG - 2017-00254
 SHEET 1 OF 7.*



**FIGURE 1
 VICINITY MAP**

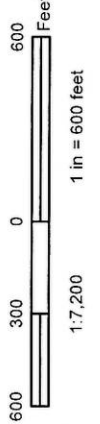
LLOYD
 ENGINEERING, INC.
 TARGA BRINE PONDS PROJECT
 TARGA DOWNSTREAM LLC
 CHAMBERS COUNTY, TEXAS

DRAWN BY: SWW DATE: 9/25/2017
 CHECKED: MDO/TMA APPROVED: JW
 C:\Users\wedeksw\Desktop\WORKING\A170627\MXD\Figure_1_Vicinity_Map_2017_09_25.mxd

NOV 24 2017



Estri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, Source: Esri, DigitalGlobe, GeoEye, I-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Legend



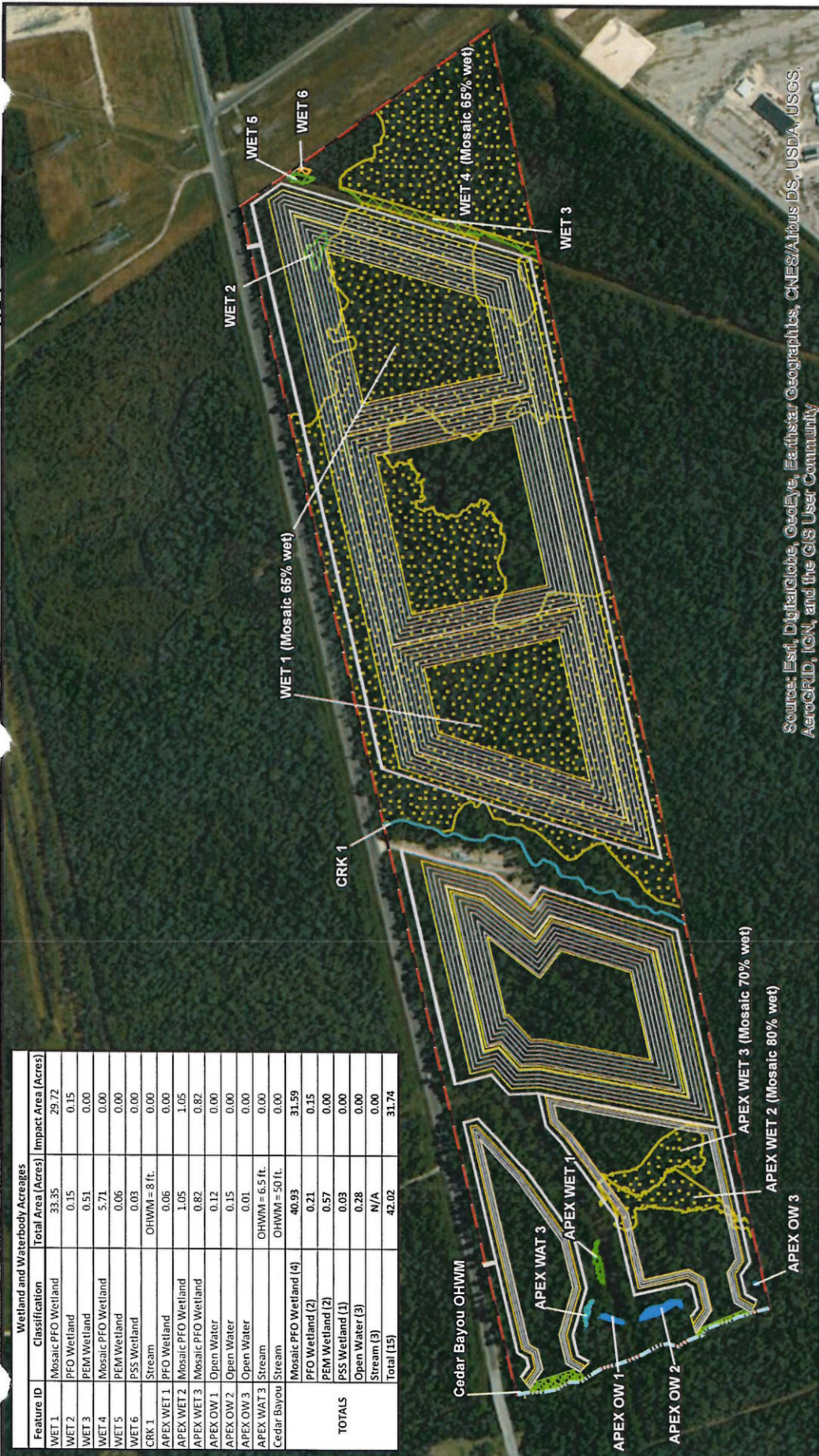
Project Area

TARGA DOWNSTREAM LLC
SWG-2017-00254
SHEET 2 OF 7.

Figure 1: Project Location on Aerial Imagery

Cultural Resources Survey
 Brine Pond 137.1-acre Tract
 Chambers County, Texas
 January 2015
 Apex Project No. 7010814N055

Wetland and Waterbody Acreages		
Feature ID	Classification	Impact Area (Acres)
WET 1	Mosaic PFO Wetland	29.72
WET 2	PFO Wetland	0.15
WET 3	PEM Wetland	0.51
WET 4	Mosaic PFO Wetland	5.71
WET 5	PEM Wetland	0.06
WET 6	PSS Wetland	0.03
CRK 1	Stream	OHWM = 8 ft.
APEX WET 1	PFO Wetland	0.06
APEX WET 2	Mosaic PFO Wetland	1.05
APEX WET 3	Mosaic PFO Wetland	0.82
APEX OW 1	Open Water	0.12
APEX OW 2	Open Water	0.15
APEX OW 3	Open Water	0.01
APEX WAT 3	Stream	OHWM = 6.5 ft.
Cedar Bayou	Stream	OHWM = 50 ft.
	Mosaic PFO Wetland (4)	40.93
	PFO Wetland (2)	0.21
	PEM Wetland (2)	0.57
	PSS Wetland (1)	0.03
	Open Water (3)	0.28
	Stream (3)	N/A
TOTALS		42.02
		31.74



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

- Project Area
- Proposed Rip-Rap
- Proposed Brine Pond
- Proposed Stormwater Detention Pond
- Proposed Berm Slope
- Proposed Access Road
- Cedar Bayou OHWM
- Stream

- Mosaic PFO Wetland
- PEM Wetland
- PFO Wetland
- PSS Wetland
- Open Water

Figure 3
Aerial Based Project Overview Impact Map
 Brine Pond 6, 7, 8, and 9 Project
 Targa Downstream LLC
 Chambers County, Texas

SWG-2017-00254
SHEET 3 OF 7.

Scientific System, NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
 Datum: North American 1983
 False Easting: 1589,900,000.00
 Central Meridian: -99.0000
 Standard Parallel 1: 28.3833
 Standard Parallel 2: 30.2833
 Units: Feet US

1 inch = 600 feet
 Date: Nov 02, 2017
 Prepared By: J. Wiedeman



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

- Project Area
- Proposed Rip-Rap
- Proposed Brine Pond
- Proposed Stormwater Detention Pond
- Proposed Berm Slope
- Proposed Access Road
- Cedar Bayou OHWM



Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
 Datum: North American 1983
 False Easting: 1,988,500.0000
 False Northing: 150,000.0000
 Standard Parallel 1: 28.3833
 Standard Parallel 2: 30.2833
 True Origin: 27.8333
 Units: Feet US

Figure 2

Site Layout Overview Map
 Brine Pond 6, 7, 8, and 9 Project
 Targa Downstream LLC

Chambers County, Texas

1 inch = 600 feet

Date: Nov 14, 2017

Prepared By: J. Wiedeman

SWG-2017-00254
 SHEET 4 OF 7.





Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

- Project Area
- Cross Section
- Proposed Rip-Rap
- Proposed Brine Pond
- Proposed Stormwater Detention Pond
- Proposed Berm Slope
- Proposed Access Road
- Cedar Bayou OHWM

SWG-2017-00254
SHEET 5 OF 7.



Figure 5

Cross Section Overview Map
Brine Pond 6, 7, 8, and 9 Project
Targa Downstream LLC

Chambers County, Texas

1 inch = 600 feet

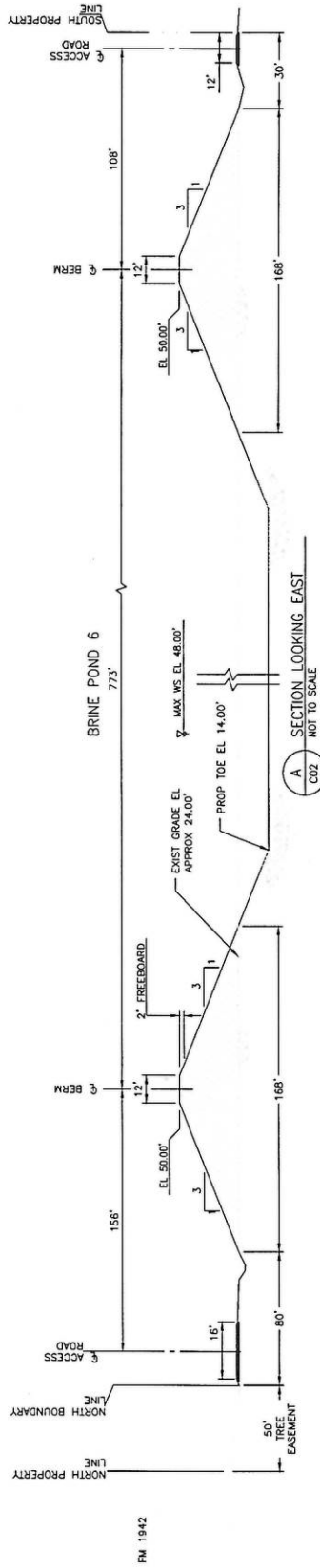
Date: Nov 14, 2017

Prepared By: J. Wiedeman

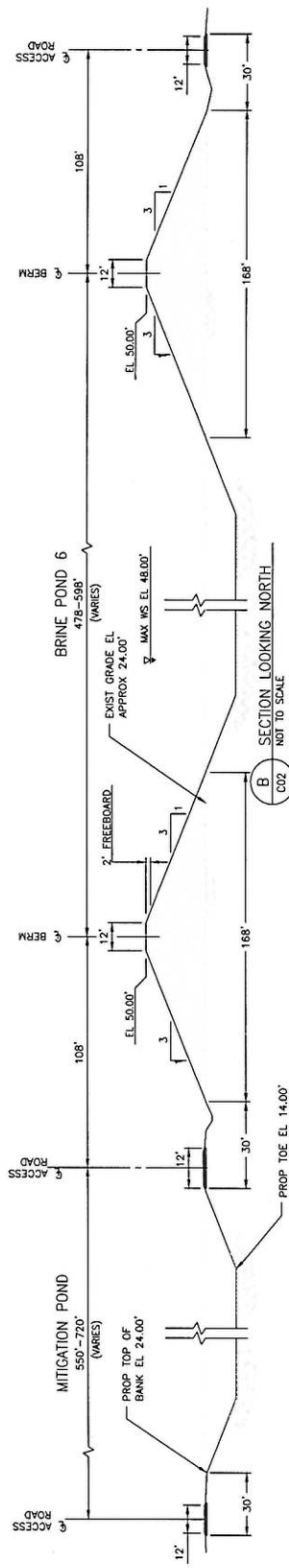


Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 5004 Feet
Datum: North American 1983
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False Northing: 1,568,500.0000
Scale: Meters: 1.000000
Standard Meridian 1: 28.3633
Standard Parallel 1: 28.3633
Standard Parallel 2: 27.8533
Units: Feet US

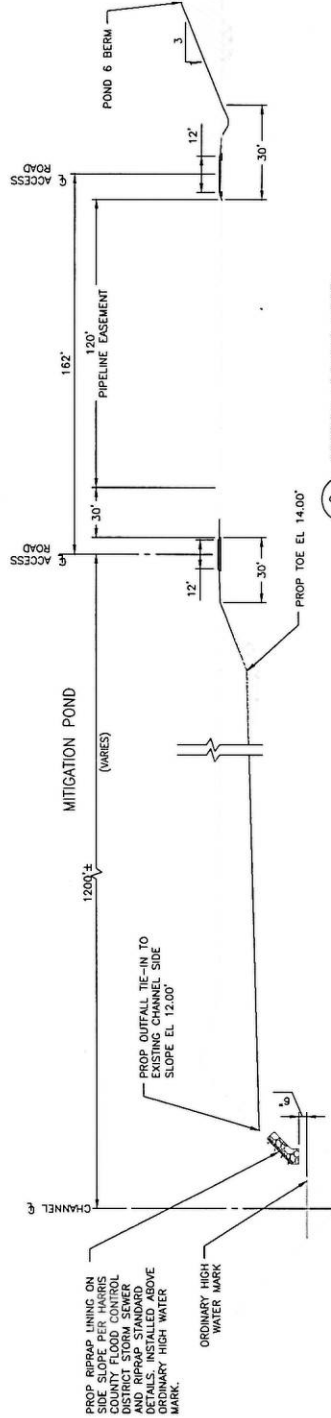
NOV 24 2017



A SECTION LOOKING EAST
NOT TO SCALE



B SECTION LOOKING NORTH
NOT TO SCALE



C SECTION LOOKING NORTH
NOT TO SCALE

CHANSOTHI OUM, P.E.
TX LIC. 97349
10/31/2017

FOR INTERIM REVIEW AND NOT
INTENDED FOR CONSTRUCTION,
BIDDING, OR PERMIT PURPOSES
URS CORPORATION, F-3162

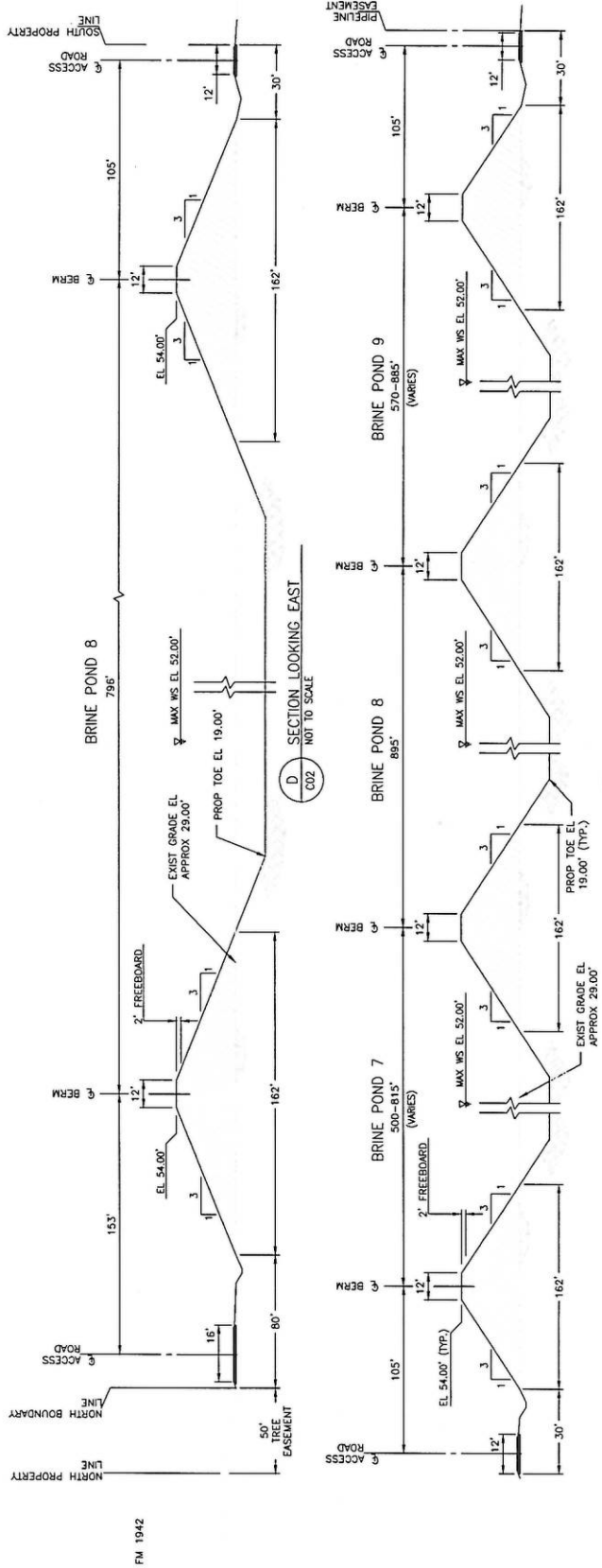
PRELIMINARY

URS		POND 6 CROSS SECTIONS	
10000 WATKINS ROAD, SUITE 100 HOUSTON, TEXAS 77060 P.O. BOX 16467-2600 P.M.A. TEXAS		TARGA BRINE PONDS 6/7/09 MONT BELVUE, TEXAS	
Drawn by: AS	Check by: LDE	Client: TARGA DOWNSTREAM LLC	Sheet No: C03
Date: 10/31/2017	Project No: 60221885	File Name: C03-CROSS SECTIONS.dwg	003

SWG-2017-00254.
SHEET 6 OF 7.

NOV 24 2017

NOV 24 2017



CHANSOTHI OUM, P.E.
 TX LIC. 97546
 08/17/2017

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 BIDDING, OR PERMIT PURPOSES

URS CORPORATION, F-3182

PRELIMINARY

URS		1018 MCKINNEY SUITE 100 HOUSTON, TEXAS 77004 P.O. BOX 1000 FAX (281) 542-2801	
Client:	TARGA DOWNSTREAM LLC	Project:	PONDS 7-9 CROSS SECTIONS
Drawn By:	LDE	Project No.:	00521885
Checked By:	EP	File Name:	CO3-SITE LAYOUT.dwg
Date:	08/17/2017	Sheet No.:	004
Scale:	AS NOTED		

SWG-2017-00254.
 SHEET 7 OF 7.