



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

PUBLIC NOTICE

February 13, 2023

United States Army
Corps of Engineers
New Orleans District
Attn: Regulatory Division, RGW
7400 Leake Ave.
New Orleans, Louisiana 70118-3651

Project Manager:
Johnny J. Duplantis
(504) 862-2548
johnny.j.duplantis@usace.army.mil
Application #: MVN-2022-01059-WPP

Interested parties are hereby notified that a permit application has been received by the New Orleans District of the U.S. Army Corps of Engineers pursuant to: [] Section 10 of the Rivers and Harbors Act of March 3, 1899 (30 Stat. 1151; 33 USC 403); and/or [] Section 404 of the Clean Water Act (86 Stat. 816; 33 USC 1344).

INSTALLATION OF OIL EXPORT PIPELINE IN THE GULF OF MEXICO

NAME OF APPLICANT: Manta Ray Gathering Company, LLC, 919 Milam Street, Suite 210, Houston, Texas 77002.

LOCATION OF WORK: Located in the Gulf of Mexico, Outer Continental Shelf, Louisiana, Point of Beginning latitude 26.88628, longitude -91.567608, Point of Ending latitude 27.9231339, longitude -91.553897, as shown within the enclosed drawings.

CHARACTER OF WORK: The installation of approximately 105.26 statute miles of 20-inch diameter oil export pipeline. The proposed pipeline would begin in the Walker Ridge Area, Block 52, and would terminate in the Garden Banks Area, Block 72. The proposed project does not include a discharge of fill material into waters of the US and/or include any wetland impacts or effects to special aquatic sites. The applicant has not proposed to provide compensatory mitigation, as there are no plans to impact wetlands resources through project construction.

The comment period on the requested Department of the Army Permit will close **15 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 Corps of Engineers project manager listed above or forwarded to the Corps of Engineers at the address above, **ATTENTION: REGULATORY DIVISION, RGW, Johnny Duplantis**. 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 requestor 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.

Corps of Engineers 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.

The U.S. Army Corps of Engineers is soliciting comments from 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 the U.S. Army Corps of Engineers 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 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.

The New Orleans District is unaware of properties listed on the National Register of Historic Places near the proposed work. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistorical, historical sites, or data. Copies of this public notice are being sent to the State Archeologist and State Historic Preservation Officer regarding potential impacts to cultural resources.

Our initial finding is that the proposed work would neither affect any species listed as endangered by the U.S. Departments of Interior or Commerce, nor affect any habitat designated as critical to the survival and recovery of any endangered species. Based on the Information Planning and Consultation (IPaC) tool for Endangered Species in Louisiana, as signed on January 27, 2020, between the U.S. Army Corps of Engineers, New Orleans and the U.S. Fish and Wildlife Service, it has been determined that the project would have no effect to any listed species.

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.

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 0 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.

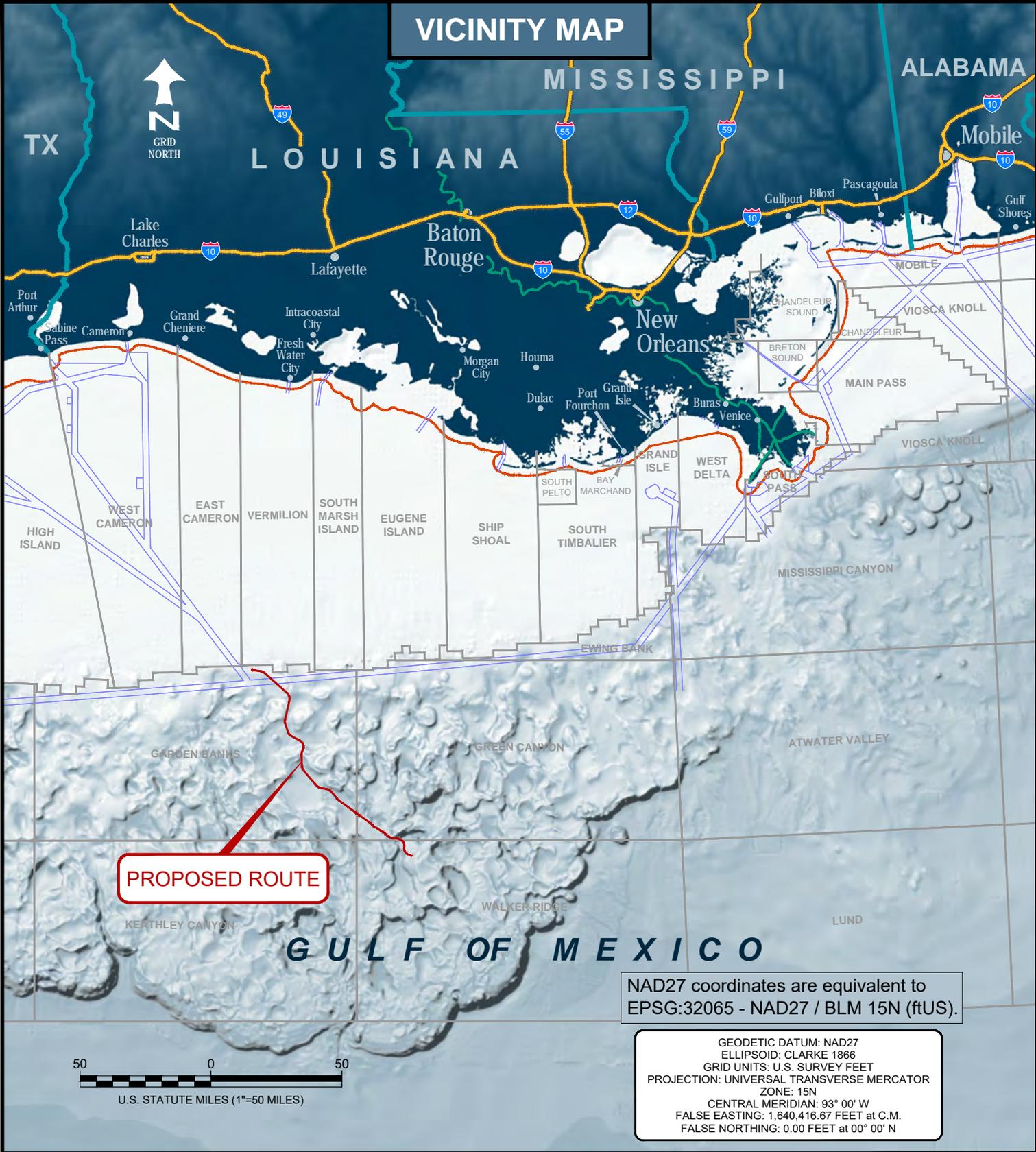
Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

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.

Darrell S. Barbara
Chief, Western Evaluation Branch
Regulatory Division

Enclosure

VICINITY MAP



PROPOSED ROUTE

NAD27 coordinates are equivalent to
EPSG:32065 - NAD27 / BLM 15N (ftUS).

GEODETIC DATUM: NAD27
 ELLIPSOID: CLARKE 1866
 GRID UNITS: U.S. SURVEY FEET
 PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
 ZONE: 15N
 CENTRAL MERIDIAN: 93° 00' W
 FALSE EASTING: 1,640,416.67 FEET at C.M.
 FALSE NORTHING: 0.00 FEET at 00° 00' N

MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
 Block 52 Proposed PLET Hub, Walker Ridge Area
 to
 Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
 202 STANTON STREET
 BROUSSARD, LA 70518
 (337) 210-0000
 LA Reg. No. 747

JOB: 216819	DRW: J. Guidry	DATE: August 12, 2022
CKD: D. Pierrotte	APP: R. Frost	SHEET 1 of 51
DOC: 216819-OII-DRW-PRM-001-01		

MATCH LINE

CURVE 1 DATA	
PC1	84+69.06'
X=	2,099,316.88'
Y=	9,761,916.26'
Lat=	26°53'42.696"N
Lon=	91°35'29.828"W
PT1	240+80.60'
X=	2,091,490.27'
Y=	9,774,260.75'
Lat=	26°55'45.818"N
Lon=	91°36'54.788"W
PI1	
X=	2,090,955.45'
Y=	9,765,268.32'
R=	12,500.00'
T=	9,008.32'
Δ=	71°33'29"
L=	15,611.53'

N68°09'16"W
8,469.06'

PROP. SHENANDOAH 20" OIL EXPORT P/L ROUTE
TOTAL LENGTH = 555,746.59' = 105.26 statute miles

00+00.00'
PROPOSED PLET HUB
X= 2,107,177.78'
Y= 9,758,764.87'
Lat= 26°53'10.610"N
Lon= 91°34'03.392"W

04+93.20'
BLOCKLINE CROSSING
X= 2,106,720.00'
Y= 9,758,948.39'
Lat= 26°53'12.479"N
Lon= 91°34'08.426"W

STATE OF LOUISIANA
ROBERT M. FROST
License No. 4573

THE PROPOSED ROUTE IS ACCURATELY REPRESENTED.

NOT FOR CONSTRUCTION
SIGNED & SEALED

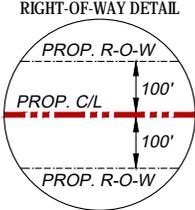
Robert M. Frost

ROBERT M. FROST
PROFESSIONAL LAND SURVEYOR
LOUISIANA REGISTRATION No. 4573

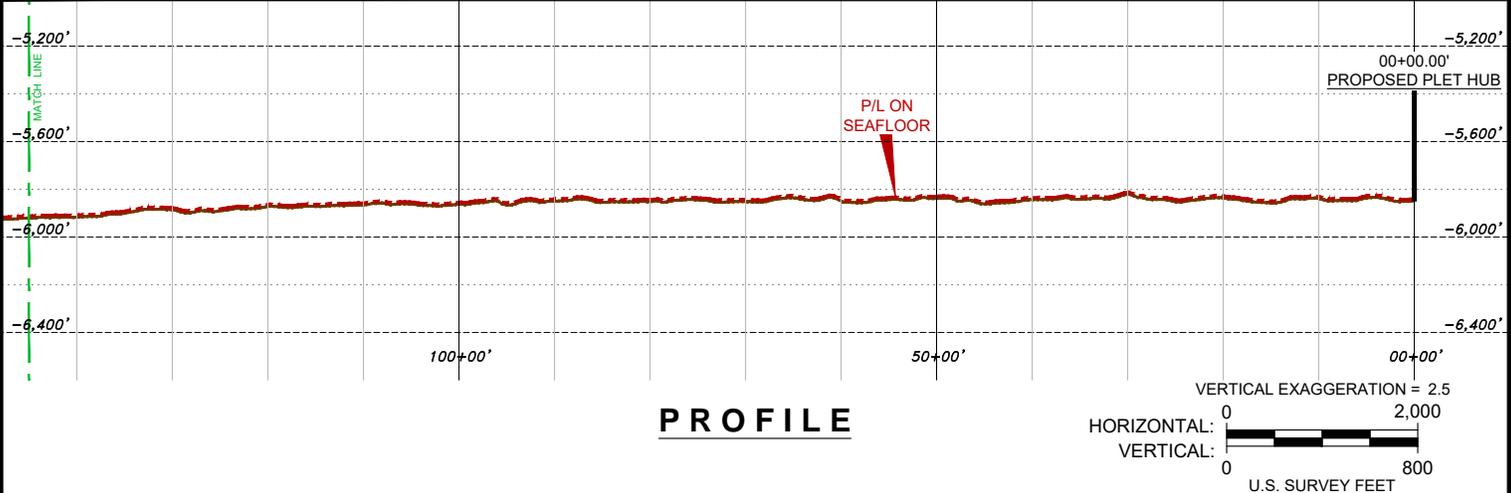
FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.



NADCON version 2.1 utilized for WGS84-NAD27 conversions.



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



MANTA RAY GATHERING COMPANY, L.L.C.

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Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY: OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819	DRW: J. Guidry	DATE: August 12, 2022
CKD: D. Pierrotte	APP: R. Frost	SHEET 2 of 51
DOC: 216819-OII-DRW-PRM-001-02		

WR6

N03°24'13"E
4,860.09'

WR7

OCS-G-37315
BEACON

230+99.39'
BLOCKLINE CROSSING
X= 2,091,470.50'
Y= 9,773,280.00'
Lat= 26°55'36.106"N
Lon= 91°36'55.125"W

WR50

WR51
OCS-G-31938
BOE E&P



CURVE 1 DATA	
PC1	84+69.06'
X=	2,099,316.88'
Y=	9,761,916.26'
Lat=	26°53'42.696"N
Lon=	91°35'29.121"W
PT1	240+80.60'
X=	2,091,490.27'
Y=	9,774,260.75'
Lat=	26°55'45.111"N
Lon=	91°36'54.111"W
PI1	
X=	2,090,955.45'
Y=	9,765,268.32'
R=	12,500.00'
T=	9,008.32'
Δ=	1°33'29"Δ
L=	15,611.53'

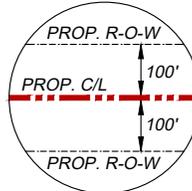
WR50

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

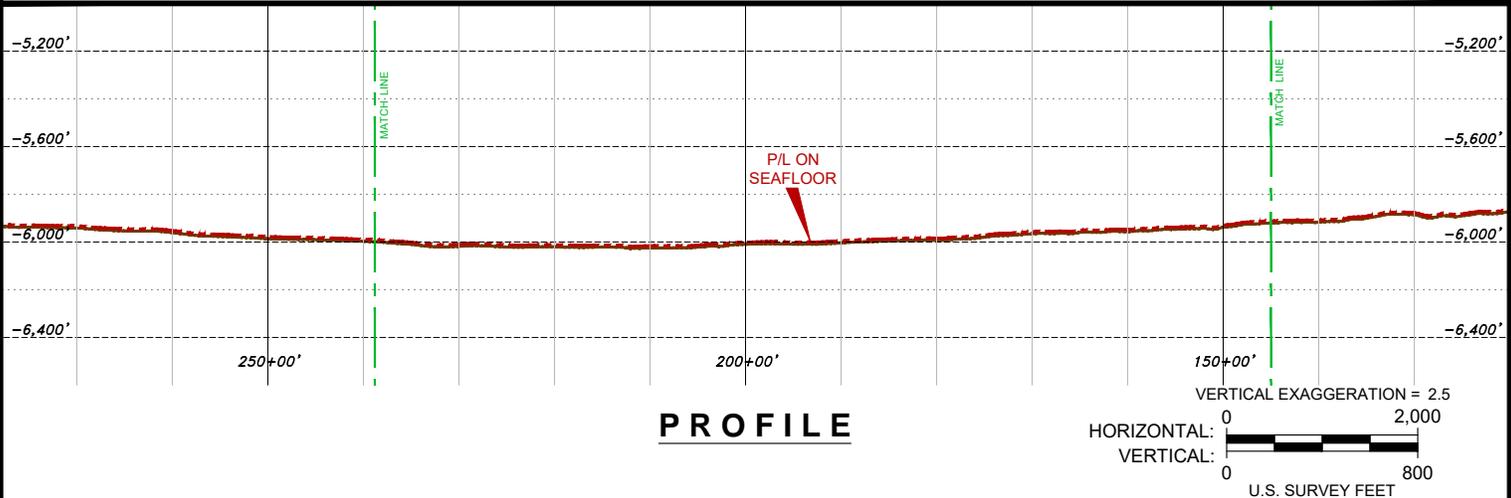


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
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BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819

DRW: J. Guidry

DATE: August 12, 2022

CKD: D. Pierrotte

APP: R. Frost

DOC: 216819-OII-DRW-PRM-001-03

SHEET 3 of 51

REV. 1



WR6

CURVE 1 DATA		CURVE 2 DATA	
PC1	84+69.06'	PC2	289+40.69'
X=	2,099,316.88'	X=	2,091,778.81'
Y=	9,761,916.26'	Y=	9,779,112.27'
Lat=	26°53'42.696"N	Lat=	26°56'33.838"N
Lon=	91°35'29.828"W	Lon=	91°36'51.013"W
PT1	240+80.60'	PT2	424+86.04'
X=	2,091,490.27'	X=	2,085,797.88'
Y=	9,774,260.75'	Y=	9,790,533.28'
Lat=	26°55'45.818"N	Lat=	26°58'27.603"N
Lon=	91°36'54.788"W	Lon=	91°37'55.739"W
PI1		PI2	
X=	2,090,955.45'	X=	2,092,225.49'
Y=	9,765,268.32'	Y=	9,786,622.73'
R=	12,500.00'	R=	12,500.00'
T=	9,008.32'	T=	7,523.73'
Δ=	71°33'29"	Δ=	62°05'14"
L=	15,611.53'	L=	13,545.35'

PC2

FLOW

N03°24'13"E
4,860.09'

PT1

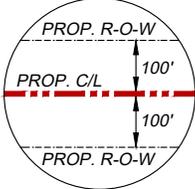
WR7
OCS-G-37315
BEACON

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

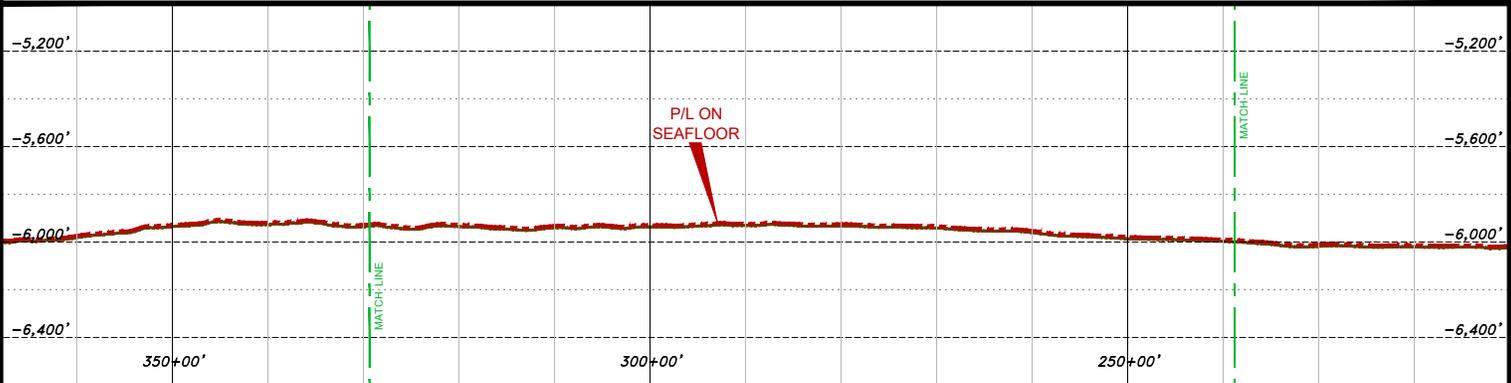


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

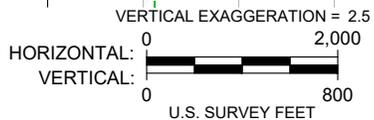
RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
ÖÇÜVÜCŞİT ÖÜÖÖNİBŞİAİÖ'AV
FALSE EASTING: 1,640,416.67 FEET at C.M.
ÖCŞÜÖANU ÜVPÖİÖV.ÖÖÖÖVÖÖÖ'Ö'Ö'AN



PROFILE



MANTA RAY GATHERING COMPANY, L.L.C.

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Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



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BROUSSARD, LA 70518
(337) 210-0000
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JOB: 216819	DRW: J. Guidry	DATE: August 12, 2022
CKD: D. Pierrotte	APP: R. Frost	SHEET 4 of 51
DOC: 216819-OII-DRW-PRM-001-04		



GC975
OCS-G-37301
BEACON

GREEN CANYON AREA
WALKER RIDGE AREA

WR7
OCS-G-37315
BEACON

GC974

MATCH LINE

N58°41'01"W
4,521.12'

401+19.85'
BLOCKLINE CROSSING
X= 2,087,691.23'
Y= 9,789,120.00'
Lat= 26°58'13.402"N
Lon= 91°37'34.981"W

WR6

345+11.26'
BLOCKLINE CROSSING
X= 2,090,880.00'
Y= 9,784,563.26'
Lat= 26°57'27.925"N
Lon= 91°37'00.286"W

CURVE 2 DATA	
PC2	289+40.69'
X=	2,091,778.81'
Y=	9,779,112.27'
Lat=	26°56'33.838"N
Lon=	91°36'51.013"W
PT2	424+86.04'
X=	2,085,797.88'
Y=	9,790,533.28'
Lat=	26°58'27.603"N
Lon=	91°37'55.739"W
PI2	
X=	2,092,225.49'
Y=	9,786,622.73'
R=	12,500.00'
T=	7,523.73'
Δ=	62°05'14"
L=	13,545.35'

FLOW

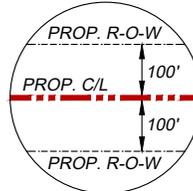
MATCH LINE

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

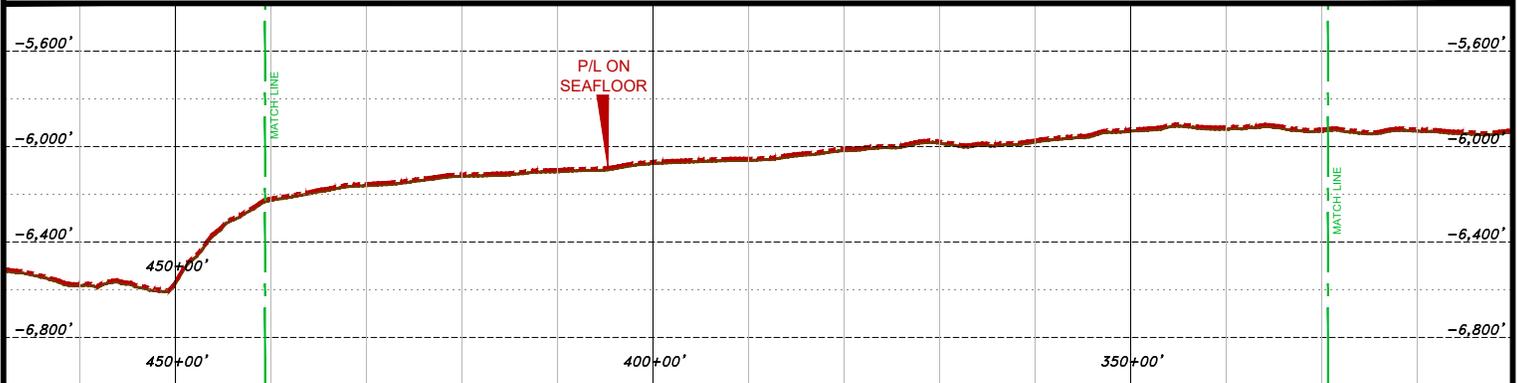


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

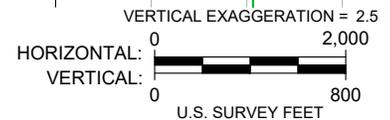
RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



PROFILE



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to
Block 72 BOR at "A" Platform, Garden Banks Area

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BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819

DRW: J. Guidry

DATE: August 12, 2022

CKD: D. Pierrotte

APP: R. Frost

DOC: 216819-OII-DRW-PRM-001-05

SHEET 5 of 51

REV. 1



CURVE 2 DATA	
PC2	289+40.69'
X=	2,091,778.81'
Y=	9,779,112.27'
Lat=	26°56'33.838"N
Lon=	91°36'51.013"W
PT2	424+86.04'
X=	2,085,797.88'
Y=	9,790,533.28'
Lat=	26°58'27.603"N
Lon=	91°37'55.739"W
PI2	
X=	2,092,225.49'
Y=	9,786,622.73'
R=	12,500.00'
T=	7,523.73'
Δ=	62°05'14"
L=	13,545.35'

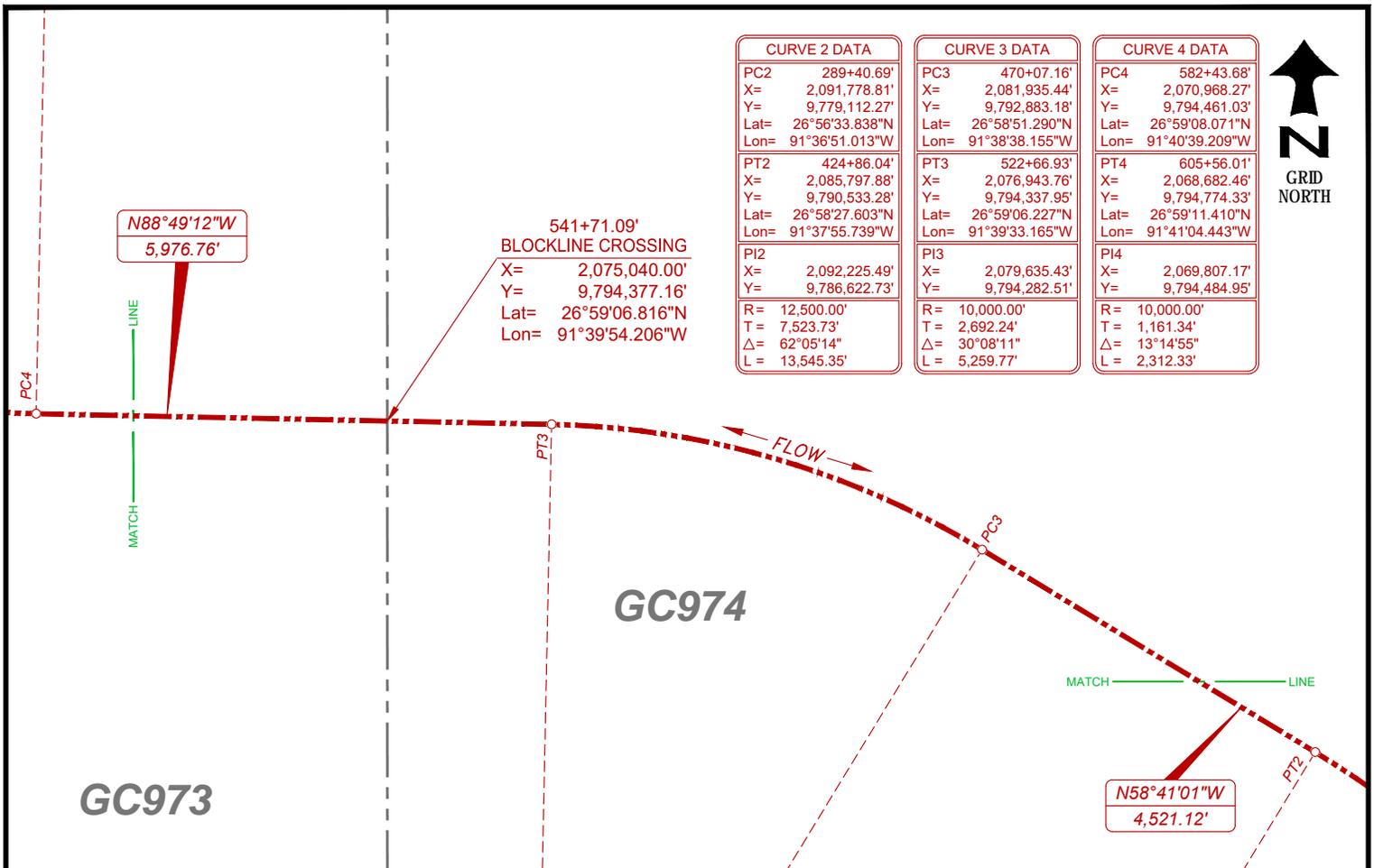
CURVE 3 DATA	
PC3	470+07.16'
X=	2,081,935.44'
Y=	9,792,883.18'
Lat=	26°58'51.290"N
Lon=	91°38'38.155"W
PT3	522+66.93'
X=	2,076,943.76'
Y=	9,794,337.95'
Lat=	26°59'06.227"N
Lon=	91°39'33.165"W
PI3	
X=	2,079,635.43'
Y=	9,794,282.51'
R=	10,000.00'
T=	2,692.24'
Δ=	30°08'11"
L=	5,259.77'

CURVE 4 DATA	
PC4	582+43.68'
X=	2,070,968.27'
Y=	9,794,461.03'
Lat=	26°59'08.071"N
Lon=	91°40'39.209"W
PT4	605+56.01'
X=	2,068,682.46'
Y=	9,794,774.33'
Lat=	26°59'11.410"N
Lon=	91°41'04.443"W
PI4	
X=	2,069,807.17'
Y=	9,794,484.95'
R=	10,000.00'
T=	1,161.34'
Δ=	13°14'55"
L=	2,312.33'

N88°49'12"W
5,976.76'

541+71.09'
BLOCKLINE CROSSING
X= 2,075,040.00'
Y= 9,794,377.16'
Lat= 26°59'06.816"N
Lon= 91°39'54.206"W

N58°41'01"W
4,521.12'

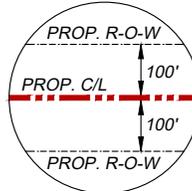


FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

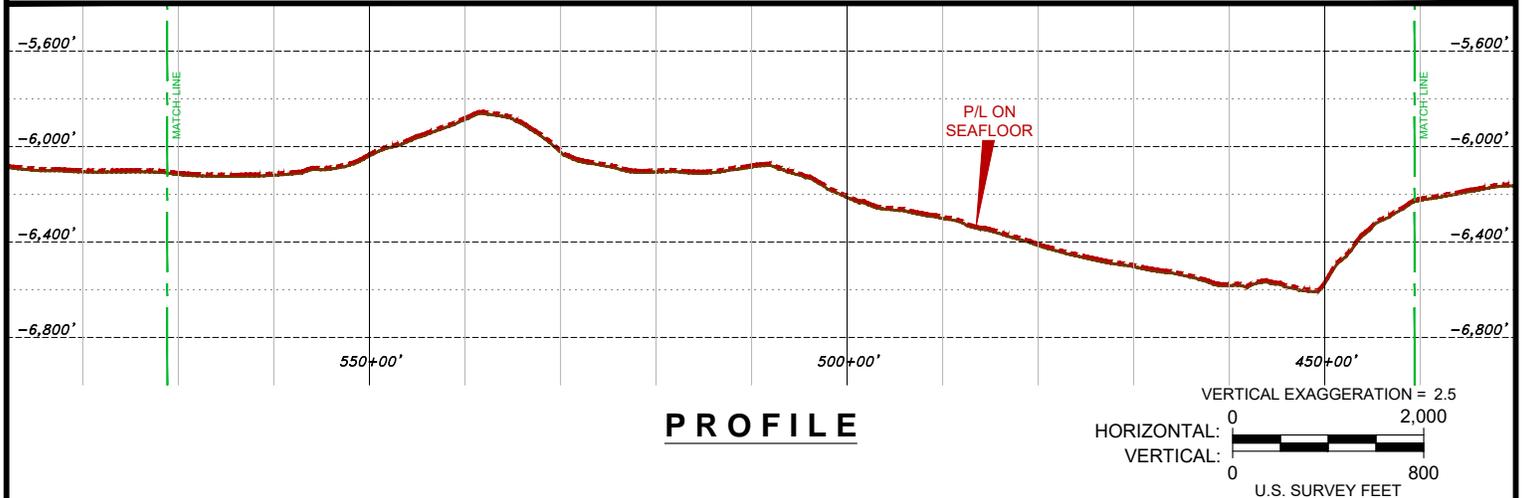


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



PROFILE

VERTICAL EXAGGERATION = 2.5
HORIZONTAL: 0 2,000
VERTICAL: 0 800
U.S. SURVEY FEET

MANTA RAY GATHERING COMPANY, L.L.C.

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Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



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BROUSSARD, LA 70518
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LA Reg. No. 747

JOB: 216819

DRW: J. Guidry

DATE: August 12, 2022

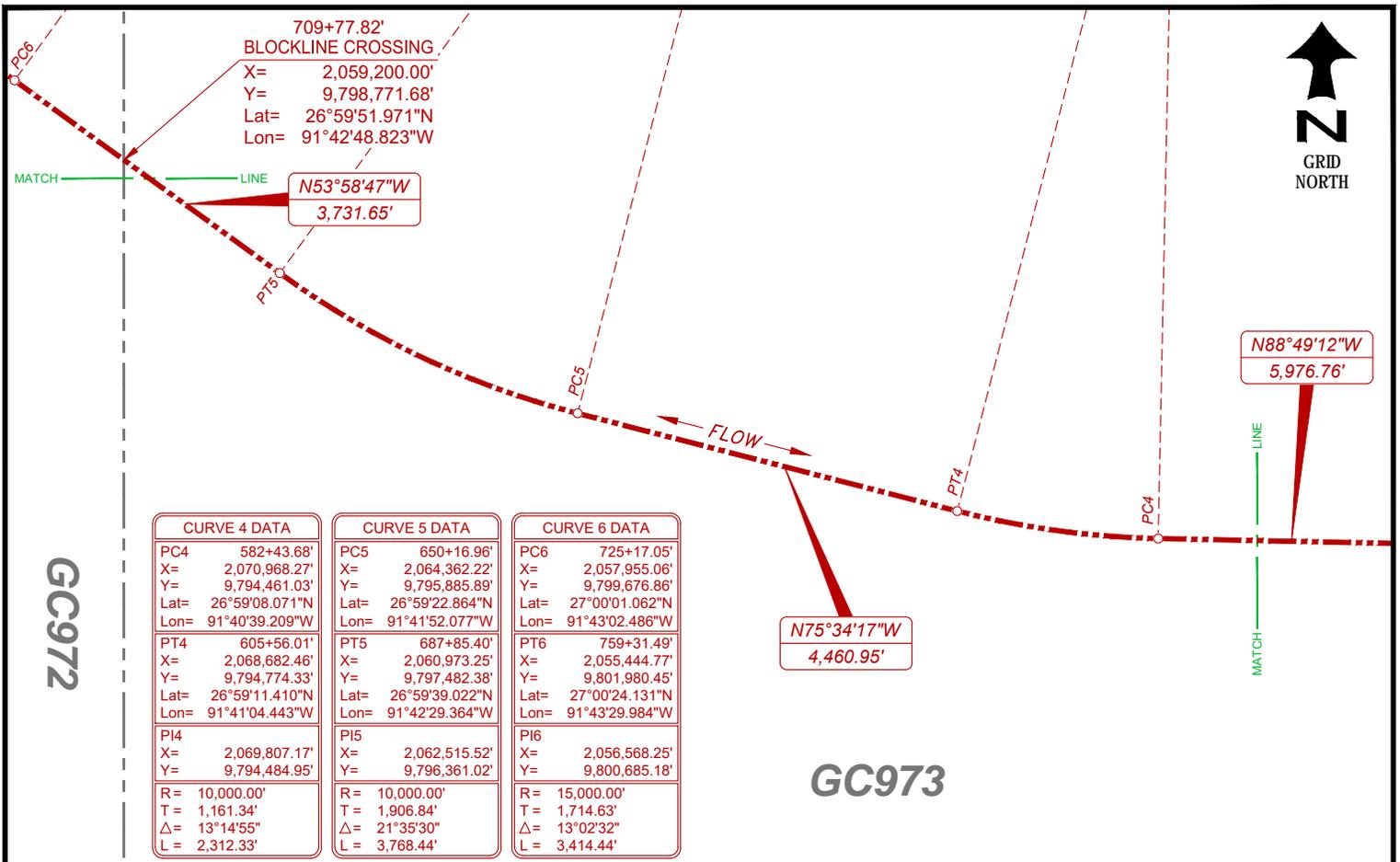
CKD: D. Pierrotte

APP: R. Frost

DOC: 216819-OII-DRW-PRM-001-06

SHEET 6 of 51

REV. 1



CURVE 4 DATA	
PC4	582+43.68'
X=	2,070,968.27'
Y=	9,794,461.03'
Lat=	26°59'08.071\"N
Lon=	91°40'39.209\"W
PT4	605+56.01'
X=	2,068,682.46'
Y=	9,794,774.33'
Lat=	26°59'11.410\"N
Lon=	91°41'04.443\"W
PI4	
X=	2,069,807.17'
Y=	9,794,484.95'
R=	10,000.00'
T=	1,161.34'
Δ=	13°14'55\"
L=	2,312.33'

CURVE 5 DATA	
PC5	650+16.96'
X=	2,064,362.22'
Y=	9,795,885.89'
Lat=	26°59'22.864\"N
Lon=	91°41'52.077\"W
PT5	687+85.40'
X=	2,060,973.25'
Y=	9,797,482.38'
Lat=	26°59'39.022\"N
Lon=	91°42'29.364\"W
PI5	
X=	2,062,515.52'
Y=	9,796,361.02'
R=	10,000.00'
T=	1,906.84'
Δ=	21°35'30\"
L=	3,768.44'

CURVE 6 DATA	
PC6	725+17.05'
X=	2,057,955.06'
Y=	9,799,676.86'
Lat=	27°00'01.062\"N
Lon=	91°43'02.486\"W
PT6	759+31.49'
X=	2,055,444.77'
Y=	9,801,980.45'
Lat=	27°00'24.131\"N
Lon=	91°43'29.984\"W
PI6	
X=	2,056,568.25'
Y=	9,800,685.18'
R=	15,000.00'
T=	1,714.63'
Δ=	13°02'32\"
L=	3,414.44'

GC972

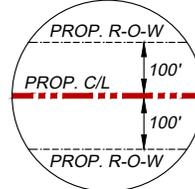
GC973

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

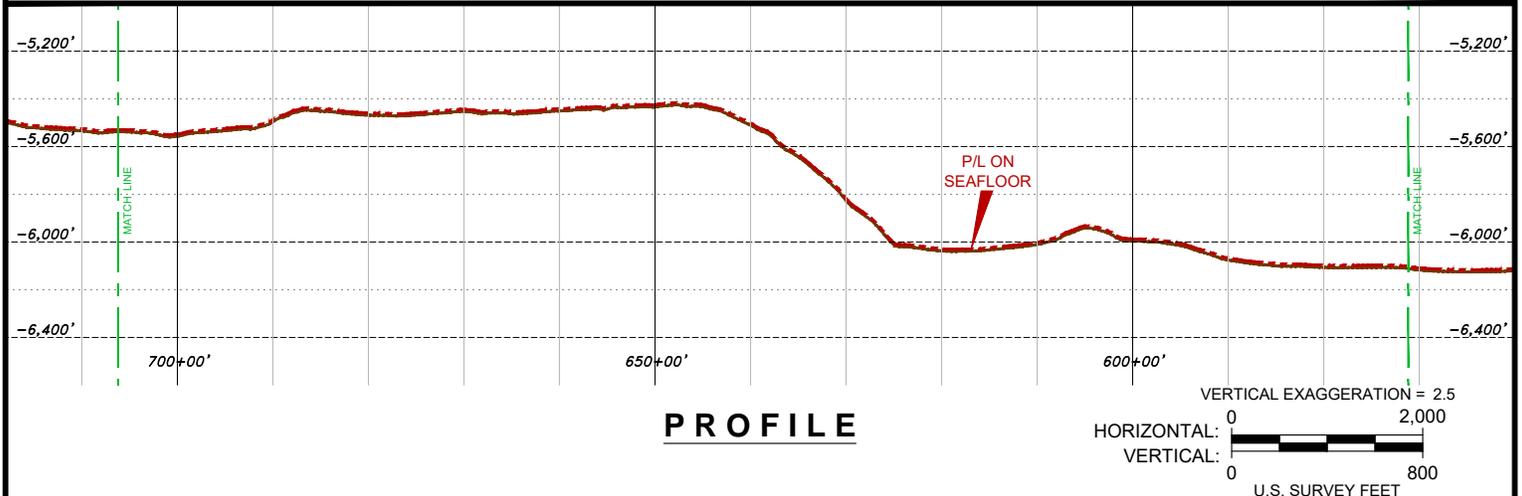


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



MANTA RAY GATHERING COMPANY, L.L.C.

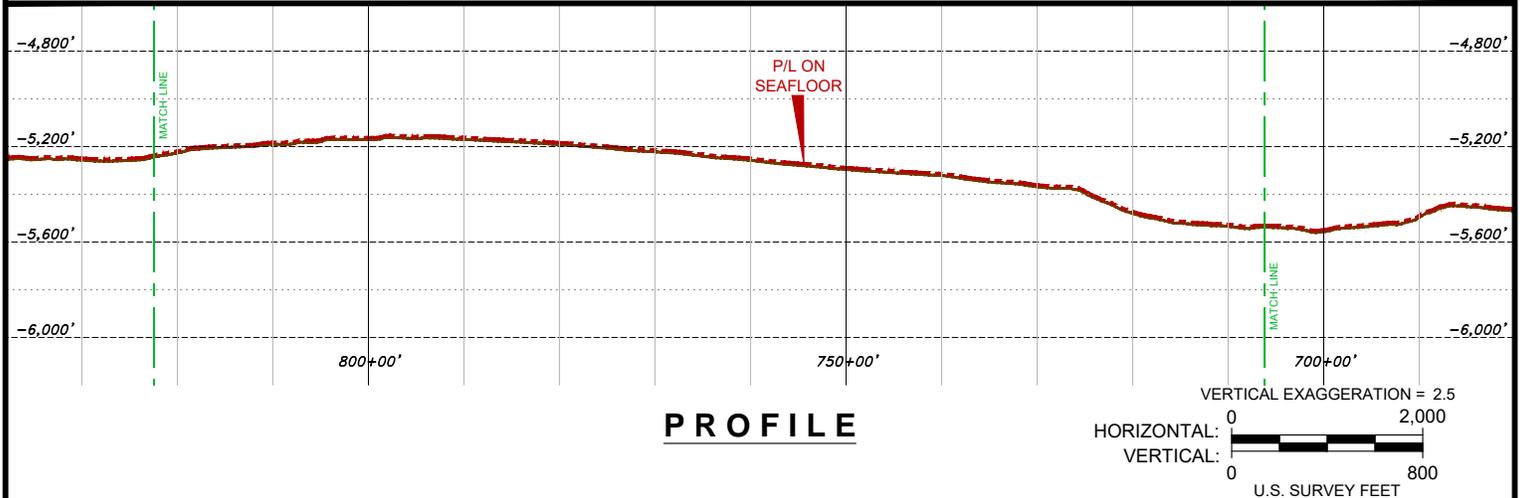
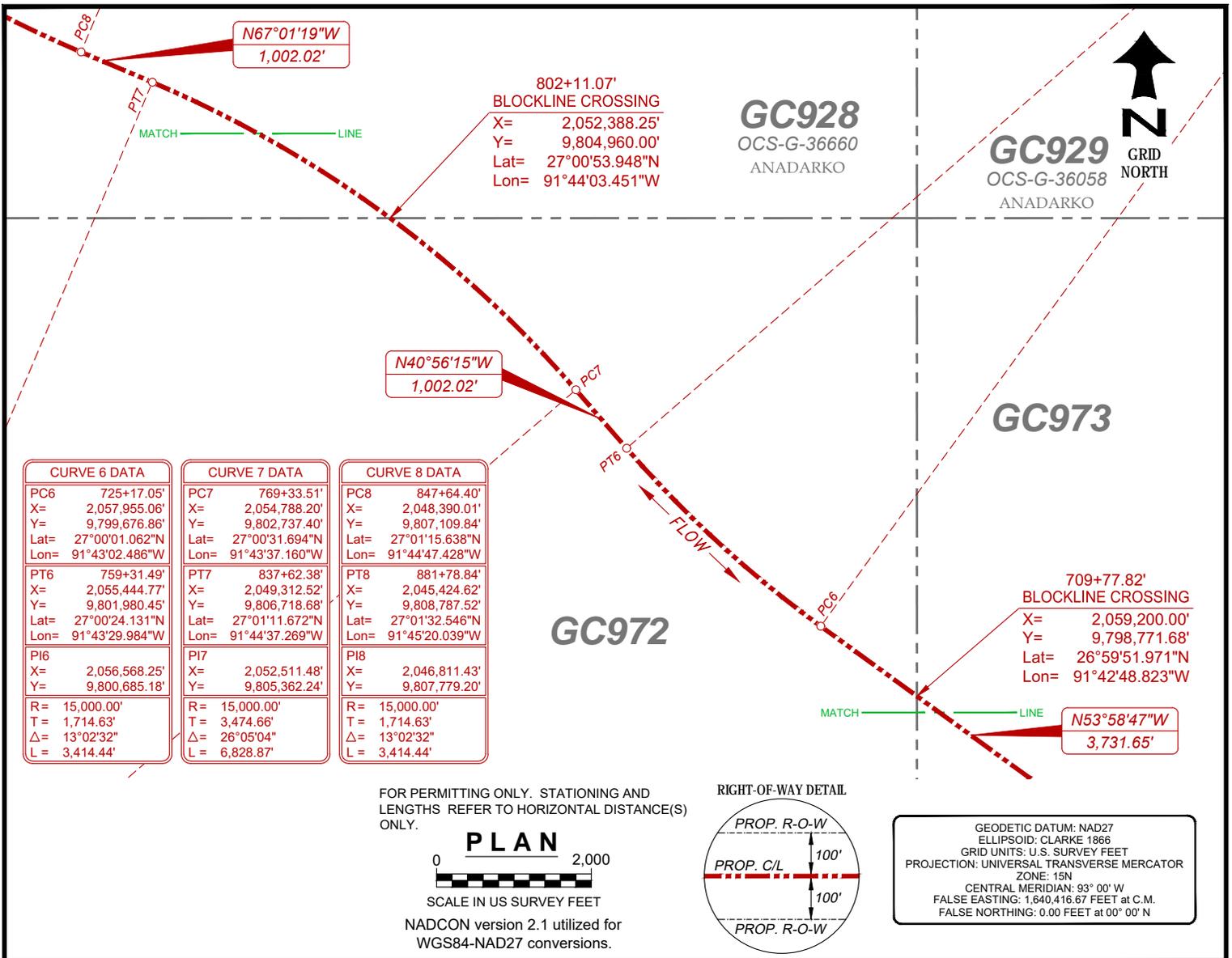
PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819	DRW: J. Guidry	DATE: August 12, 2022
CKD: D. Pierrotte	APP: R. Frost	SHEET 7 of 51
DOC: 216819-OII-DRW-PRM-001-07		



<p>MANTA RAY GATHERING COMPANY, L.L.C.</p>	<p>PROPOSED 20" OIL EXPORT ROUTE Block 52 Proposed PLET Hub, Walker Ridge Area to Block 72 BOR at "A" Platform, Garden Banks Area</p>		
	<p>PREPARED BY: OCEANEERING</p>	<p>OCEANEERING INTERNATIONAL, INC. 202 STANTON STREET BROUSSARD, LA 70518 (337) 210-0000 LA Reg. No. 747</p>	<p>JOB: 216819 DRW: J. Guidry DATE: August 12, 2022</p> <p>CKD: D. Pierrotte APP: R. Frost</p> <p>DOC: 216819-OII-DRW-PRM-001-08</p>



CURVE 7 DATA		CURVE 8 DATA	
PC7	769+33.51'	PC8	847+64.40'
X=	2,054,788.20'	X=	2,048,390.01'
Y=	9,802,737.40'	Y=	9,807,109.84'
Lat=	27°00'31.694"N	Lat=	27°01'15.638"N
Lon=	91°43'37.160"W	Lon=	91°44'47.428"W
PT7	837+62.38'	PT8	881+78.84'
X=	2,049,312.52'	X=	2,045,424.62'
Y=	9,806,718.68'	Y=	9,808,787.52'
Lat=	27°01'11.672"N	Lat=	27°01'32.546"N
Lon=	91°44'37.269"W	Lon=	91°45'20.039"W
PI7		PI8	
X=	2,052,511.48'	X=	2,046,811.43'
Y=	9,805,362.24'	Y=	9,807,779.20'
R=	15,000.00'	R=	15,000.00'
T=	3,474.66'	T=	1,714.63'
Δ=	26°05'04"	Δ=	13°02'32"
L=	6,828.87'	L=	3,414.44'

N53°58'47"W
10,421.99'

907+31.51'
BLOCKLINE CROSSING
X= 2,043,360.00'
Y= 9,810,288.67'
Lat= 27°01'47.616"N
Lon= 91°45'42.709"W

GC928
OCS-G-36660
ANADARKO

N67°01'19"W
1,002.02'

802+11.07'
BLOCKLINE CROSSING
X= 2,052,388.25'
Y= 9,804,960.00'
Lat= 27°00'53.948"N
Lon= 91°44'03.451"W

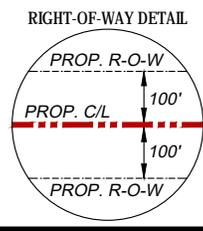
GC971

GC972

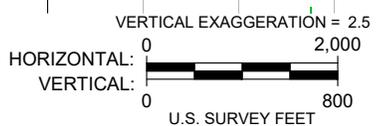
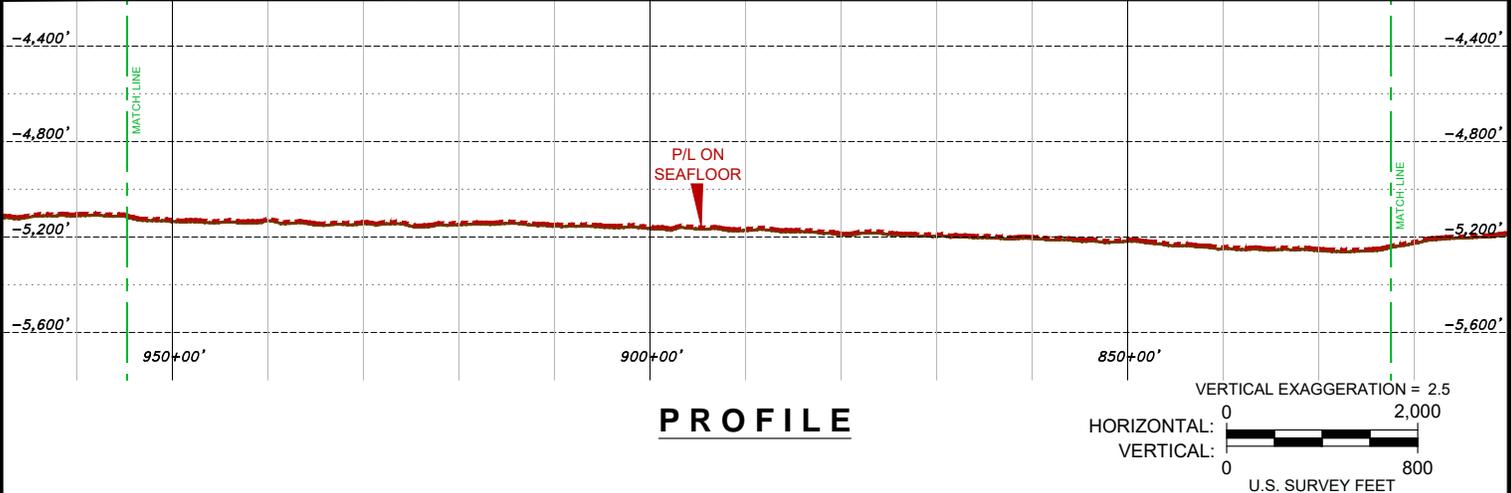
FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.



SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819	DRW: J. Guidry	DATE: August 12, 2022
CKD: D. Pierrotte	APP: R. Frost	SHEET 9 of 51
DOC: 216819-OII-DRW-PRM-001-09		



GC927

GC926
OCS-G-36057
ANADARKO

CURVE 9 DATA	
PC9	986+00.83'
X=	2,036,995.22'
Y=	9,814,916.40'
Lat=	27°02'34.068"N
Lon=	91°46'52.607"W
PT9	1018+18.23'
X=	2,034,171.89'
Y=	9,816,439.10'
Lat=	27°02'49.420"N
Lon=	91°47'23.674"W
PI9	
X=	2,035,686.24'
Y=	9,815,868.13'
R=	12,000.00'
T=	1,618.41'
Δ=	15°21'43"
L=	3,217.40'

CURVE 10 DATA	
PC10	1032+01.62'
X=	2,032,877.45'
Y=	9,816,927.15'
Lat=	27°02'54.377"N
Lon=	91°47'37.941"W
PT10	1096+36.42'
X=	2,027,735.06'
Y=	9,820,666.09'
Lat=	27°03'31.896"N
Lon=	91°48'34.434"W
PI10	
X=	2,029,792.65'
Y=	9,818,090.23'
R=	12,000.00'
T=	3,296.78'
Δ=	30°43'26"
L=	6,434.79'

N69°20'30"W
1,383.39'

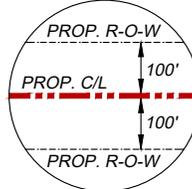
N53°58'47"W
10,421.99'

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

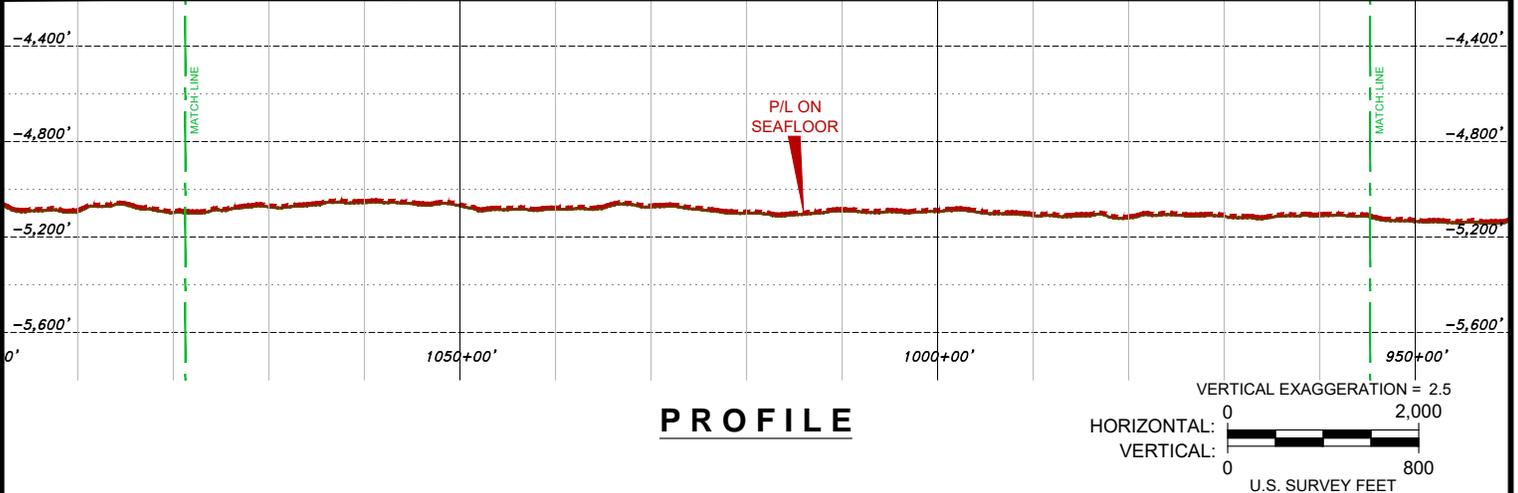


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
OCSUOCS4 OUCON83 A00 AV
FALSE EASTING: 1,640,416.67 FEET at C.M.
OCSUOANU UVP Q10 A0.00 A00CV A00 A00 AV



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819

DRW: J. Guidry

DATE: August 12, 2022

CKD: D. Pierrotte

APP: R. Frost

SHEET 10 of 51

REV. 1

DOC: 216819-OII-DRW-PRM-001-10



GC882

GC883

GC926
OCS-G-36057
ANADARKO

GC927

N53°58'47"W
25,288.80'

1127+44.67'
S-17364 BP 2" Cable
X= 2,025,702.15'
Y= 9,823,012.78'
Lat= 27°03'55.330"N
Lon= 91°48'56.680"W

1099+81.00'
BLOCKLINE CROSSING
X= 2,027,520.00'
Y= 9,820,935.32'
Lat= 27°03'34.583"N
Lon= 91°48'36.785"W

1098+07.80'
BLOCKLINE CROSSING
X= 2,027,628.10'
Y= 9,820,800.00'
Lat= 27°03'33.233"N
Lon= 91°48'35.603"W

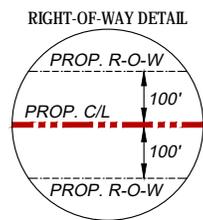
N38°37'04"W
1,383.39'

CURVE 10 DATA		CURVE 11 DATA	
PC10	1032+01.62'	PC11	1110+19.81'
X=	2,032,877.45'	X=	2,026,871.65'
Y=	9,816,927.15'	Y=	9,821,746.97'
Lat=	27°02'54.377"N	Lat=	27°03'42.683"N
Lon=	91°47'37.941"W	Lon=	91°48'43.873"W
PT10	1096+36.42'	PT11	1142+37.21'
X=	2,027,735.06'	X=	2,024,552.59'
Y=	9,820,666.09'	Y=	9,823,963.21'
Lat=	27°03'31.896"N	Lat=	27°04'04.851"N
Lon=	91°48'34.434"W	Lon=	91°49'09.299"W
PI10		PI11	
X=	2,029,792.65'	X=	2,025,861.57'
Y=	9,818,090.23'	Y=	9,823,011.48'
R=	12,000.00'	R=	12,000.00'
T=	3,296.78'	T=	1,618.41'
Δ=	30°43'26"	Δ=	15°21'43"
L=	6,434.79'	L=	3,217.40'

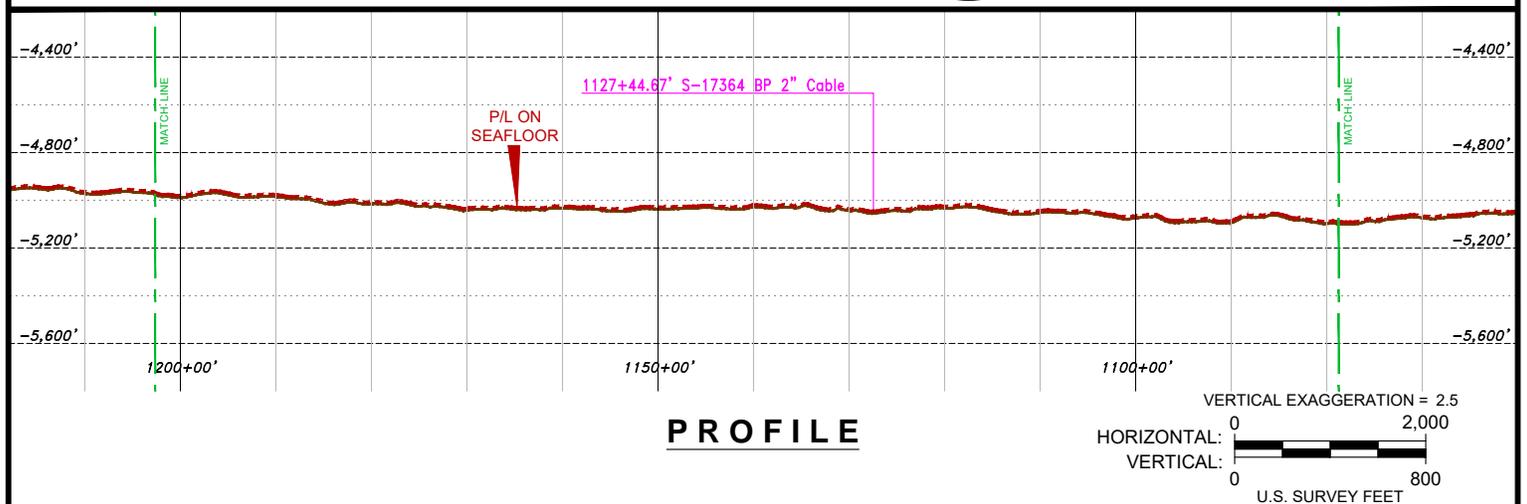
FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.



SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819	DRW: J. Guidry	DATE: August 12, 2022
CKD: D. Pierrotte	APP: R. Frost	SHEET 11 of 51
DOC: 216819-OII-DRW-PRM-001-11		



MATCH LINE

1301+52.69'
BLOCKLINE CROSSING
X= 2,011,680.00'
Y= 9,833,322.65'
Lat= 27°05'38.735"N
Lon= 91°51'30.780"W

GC881

GC882

N53°58'47"W
25,288.80'

FLOW

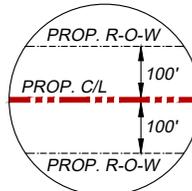
MATCH LINE

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

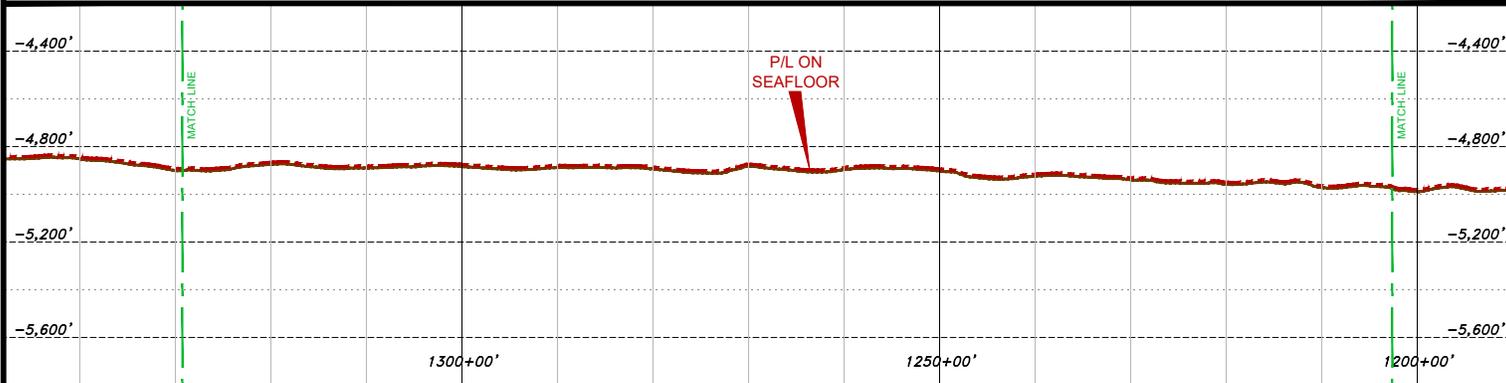


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

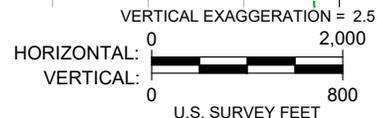
RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



PROFILE



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819

DRW: J. Guidry

DATE: August 12, 2022

CKD: D. Pierrottie

APP: R. Frost

DOC: 216819-OII-DRW-PRM-001-12

SHEET 12 of 51

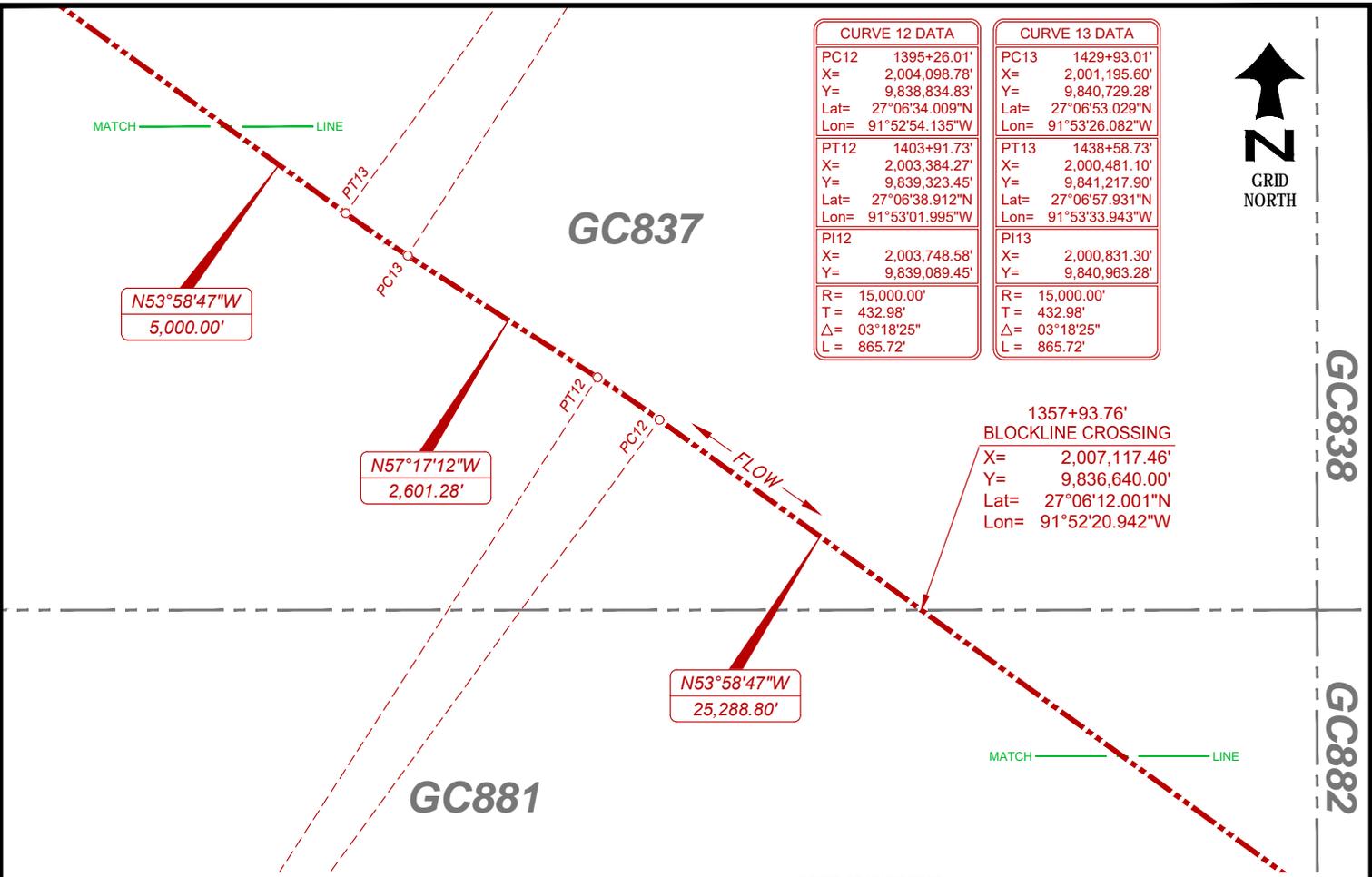
REV. 1



CURVE 12 DATA		CURVE 13 DATA	
PC12	1395+26.01'	PC13	1429+93.01'
X=	2,004,098.78'	X=	2,001,195.60'
Y=	9,838,834.83'	Y=	9,840,729.28'
Lat=	27°06'34.009"N	Lat=	27°06'53.029"N
Lon=	91°52'54.135"W	Lon=	91°53'26.082"W
PT12	1403+91.73'	PT13	1438+58.73'
X=	2,003,384.27'	X=	2,000,481.10'
Y=	9,839,323.45'	Y=	9,841,217.90'
Lat=	27°06'38.912"N	Lat=	27°06'57.931"N
Lon=	91°53'01.995"W	Lon=	91°53'33.943"W
PI12		PI13	
X=	2,003,748.58'	X=	2,000,831.30'
Y=	9,839,089.45'	Y=	9,840,963.28'
R=	15,000.00'	R=	15,000.00'
T=	432.98"	T=	432.98"
Δ=	03°18'25"	Δ=	03°18'25"
L=	865.72'	L=	865.72'

GC838

GC882

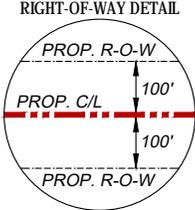


1357+93.76'
BLOCKLINE CROSSING
X= 2,007,117.46'
Y= 9,836,640.00'
Lat= 27°06'12.001"N
Lon= 91°52'20.942"W

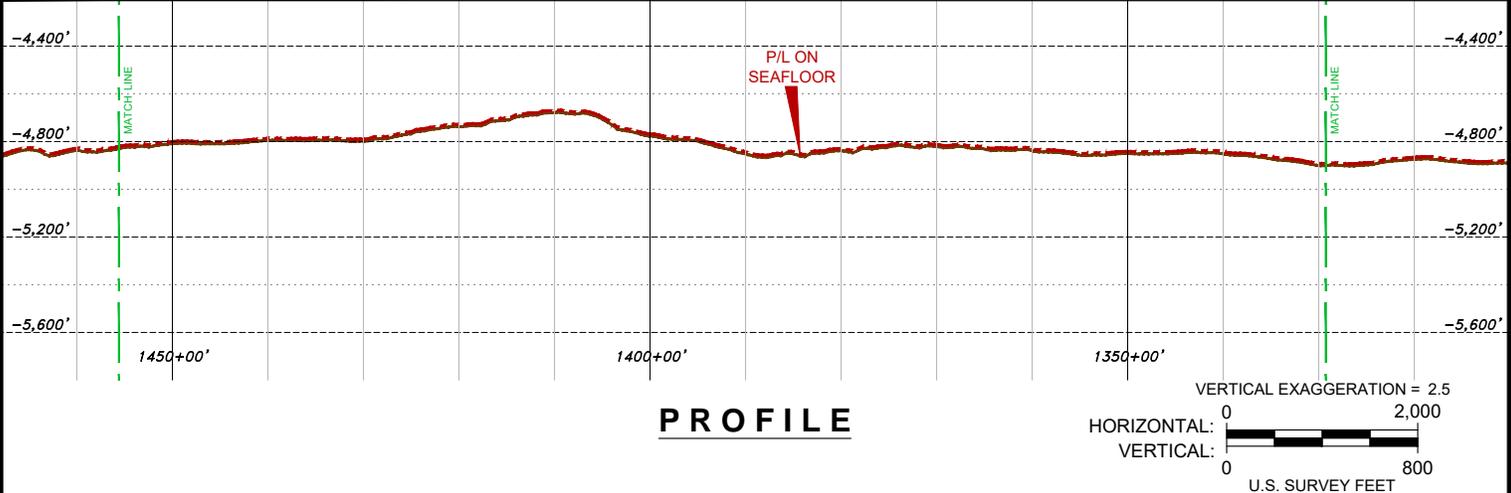
FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.



SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819	DRW: J. Guidry	DATE: August 12, 2022
CKD: D. Pierrotte	APP: R. Frost	SHEET 13 of 51
DOC: 216819-OII-DRW-PRM-001-13		



GC837

GARDEN BANKS AREA
GREEN CANYON AREA

MATCH ——— LINE

N53°58'47"W
41,732.68'

N50°40'23"W
2,601.28'

N53°58'47"W
5,000.00'

GB877

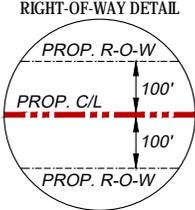
CURVE 13 DATA		CURVE 14 DATA		CURVE 15 DATA	
PC13	1429+93.01'	PC14	1488+58.73'	PC15	1523+25.73'
X=	2,001,195.60'	X=	1,996,437.05'	X=	1,993,739.73'
Y=	9,840,729.28'	Y=	9,844,158.26'	Y=	9,846,335.83'
Lat=	27°01'53.029"N	Lat=	27°07'27.407"N	Lat=	27°07'49.209"N
Lon=	91°53'21.082"W	Lon=	91°54'18.422"W	Lon=	91°54'48.072"W
PT13	1438+58.73'	PT14	1497+24.45'	PT15	1531+91.45'
X=	2,000,481.10'	X=	1,995,751.93'	X=	1,993,054.60'
Y=	9,841,217.90'	Y=	9,844,687.28'	Y=	9,846,864.86'
Lat=	27°01'57.931"N	Lat=	27°07'32.701"N	Lat=	27°07'54.507"N
Lon=	91°53'33.943"W	Lon=	91°54'25.955"W	Lon=	91°54'55.101"W
PI13		PI14		PI15	
X=	2,000,831.30'	X=	1,996,086.85'	X=	1,993,404.80'
Y=	9,840,963.28'	Y=	9,844,412.88'	Y=	9,846,610.23'
R=	15,000.00'	R=	15,000.00'	R=	15,000.00'
T=	432.98'	T=	432.98'	T=	432.98'
Δ=	03°18'25"	Δ=	03°18'25"	Δ=	03°18'25"
L=	865.72'	L=	865.72'	L=	865.72'

1496+10.94'
BLOCKLINE CROSSING
X= 1,995,840.00'
Y= 9,844,615.68'
Lat= 27°07'31.989"N
Lon= 91°54'24.987"W

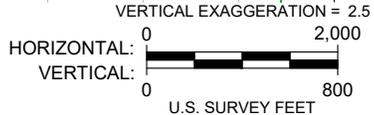
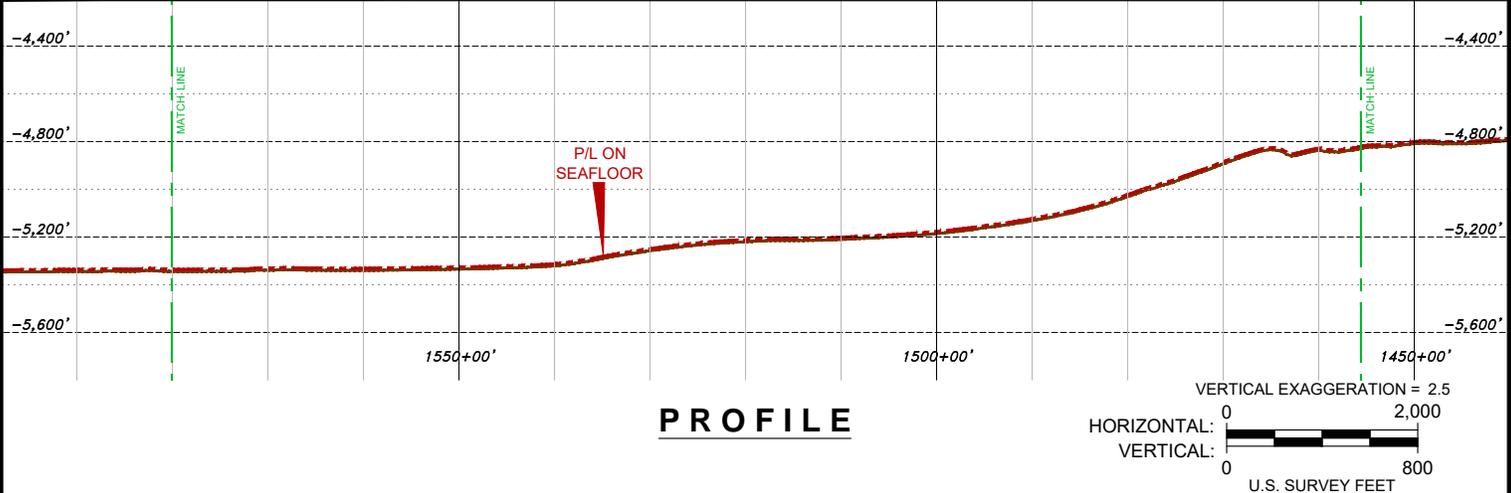
FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.



NADCON version 2.1 utilized for WGS84-NAD27 conversions.



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY: OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819	DRW: J. Guidry	DATE: August 12, 2022
CKD: D. Pierrotte	APP: R. Frost	SHEET 14 of 51
DOC: 216819-OII-DRW-PRM-001-14		



GB833

GB832

GB876

GB877

1693+31.97'
BLOCKLINE CROSSING
X= 1,980,000.00'
Y= 9,856,356.63'
Lat= 27°09'29.624"N
Lon= 91°57'19.252"W

1627+39.86'
BLOCKLINE CROSSING
X= 1,985,331.77'
Y= 9,852,480.00'
Lat= 27°08'50.781"N
Lon= 91°56'20.576"W

N53°58'47"W
41,732.68'

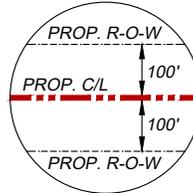
MATCH LINE

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

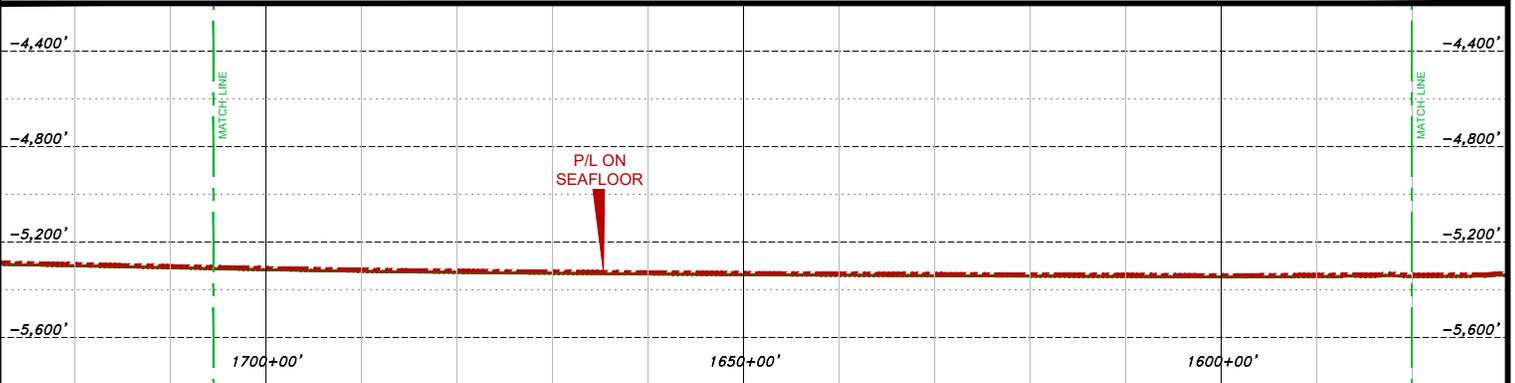


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

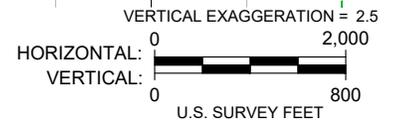
RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



PROFILE



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819

DRW: J. Guidry

DATE: August 12, 2022

CKD: D. Pierrotte

APP: R. Frost

DOC: 216819-OII-DRW-PRM-001-15

SHEET 15 of 51

REV. 1



GB833

GB832

1788+72.11'
S-18606 SE KC PIPELINE 18"
X= 1,972,283.85'
Y= 9,861,966.91'
Lat= 27°10'25.825"N
Lon= 91°58'44.189"W

N53°58'47"W
41,732.68'

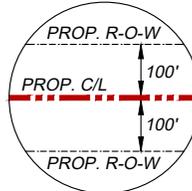
1693+31.97'
BLOCKLINE CROSSING
X= 1,980,000.00'
Y= 9,856,356.63'
Lat= 27°09'29.624"N
Lon= 91°57'19.252"W

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

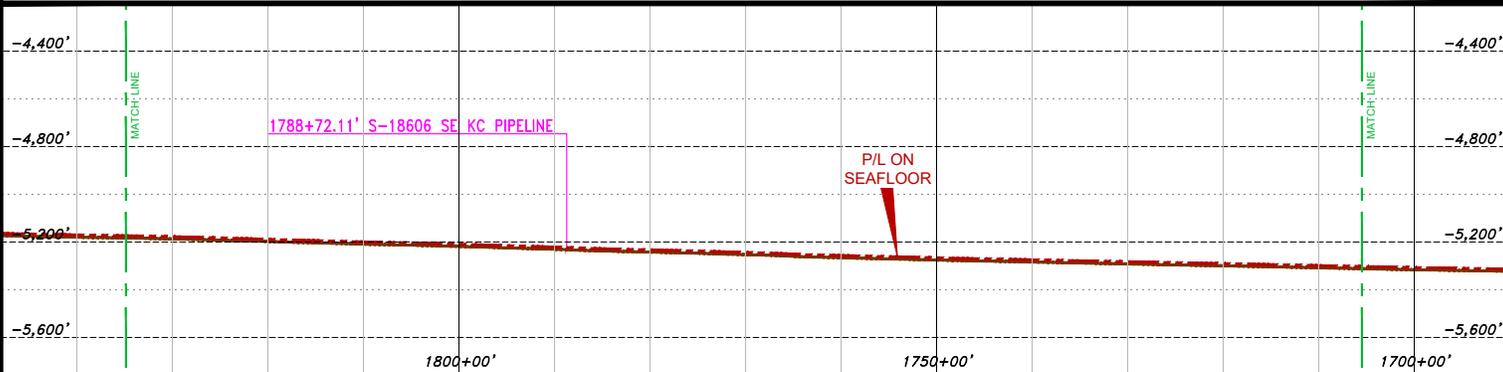


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

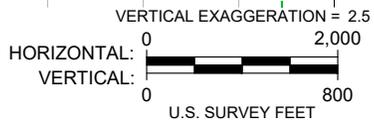
RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



PROFILE



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819

DRW: J. Guidry

DATE: August 12, 2022

CKD: D. Pierrotte

APP: R. Frost

DOC: 216819-OII-DRW-PRM-001-16

SHEET 16 of 51

REV. 1



GB788

GB787

GB832

GB831

CURVE 16 DATA	
PC16	1949+24.13'
X=	1,959,300.83'
Y=	9,871,406.64'
Lat=	27°12'00.358"N
Lon=	92°01'07.155"W
PT16	1987+20.34'
X=	1,956,544.08'
Y=	9,874,001.79'
Lat=	27°12'26.277"N
Lon=	92°01'37.469"W
PI16	
X=	1,957,757.38'
Y=	9,872,528.86'
R=	15,000.00'
T=	1,908.30'
Δ=	14°30'02"
L=	3,796.21'

N53°58'47"W
41,732.68'

1889+16.32'
BLOCKLINE CROSSING
X= 1,964,160.00'
Y= 9,867,873.63'
Lat= 27°11'24.981"N
Lon= 92°00'13.639"W

N53°58'47"W
41,732.68'

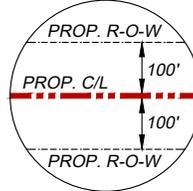
1896+75.37'
BLOCKLINE CROSSING
X= 1,963,546.07'
Y= 9,868,320.00'
Lat= 27°11'29.451"N
Lon= 92°00'20.400"W

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

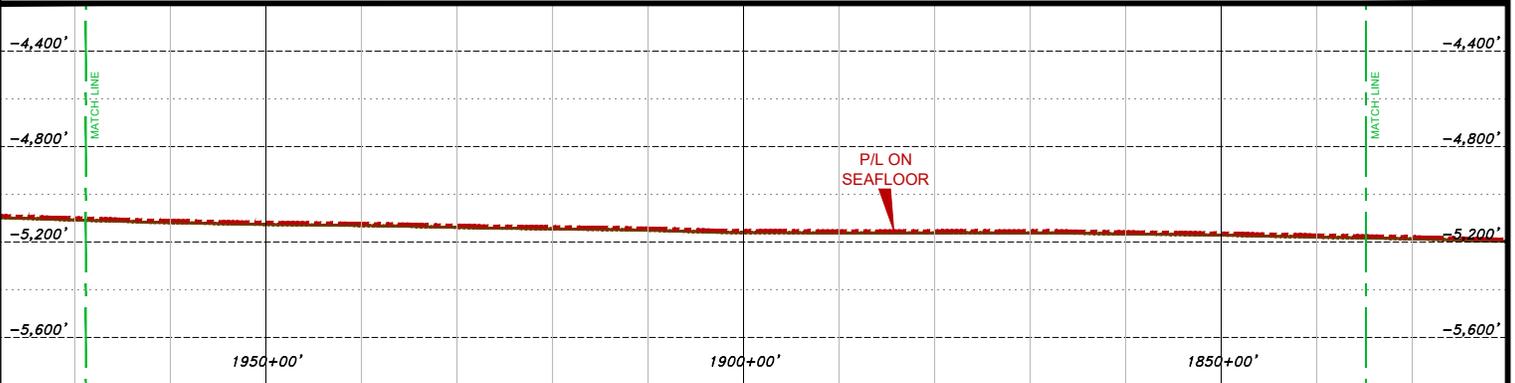


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

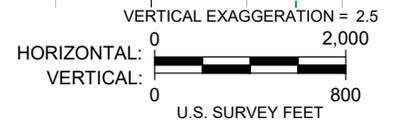
RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



PROFILE



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819

DRW: J. Guidry

DATE: August 12, 2022

CKD: D. Pierrotte

APP: R. Frost

SHEET 17 of 51

REV. 1

DOC: 216819-OII-DRW-PRM-001-17



GB786

MATCH LINE

N39°28'45"W
18,283.27'

FLOW

N39°28'45"W
18,283.27'

MATCH LINE

GB787

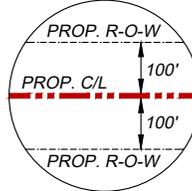
CURVE 16 DATA	
PC16	1949+24.13'
X=	1,959,300.83'
Y=	9,871,406.64'
Lat=	27°12'00.358"N
Lon=	92°01'07.155"W
PT16	1987+20.34'
X=	1,956,544.08'
Y=	9,874,001.79'
Lat=	27°12'26.277"N
Lon=	92°01'37.469"W
PI16	
X=	1,957,757.38'
Y=	9,872,528.86'
R=	15,000.00'
T=	1,908.30°
Δ=	14°30'02"
L=	3,796.21'

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

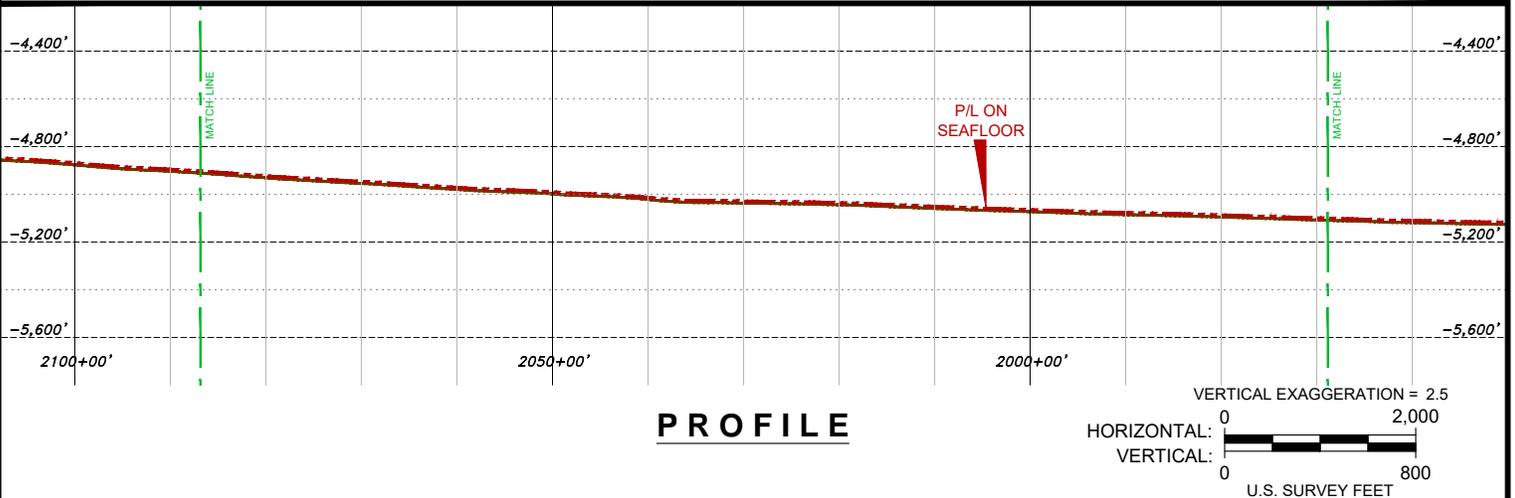


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
 ELLIPSOID: CLARKE 1866
 GRID UNITS: U.S. SURVEY FEET
 PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
 ZONE: 15N
 00N000000 000000 000000 000000
 FALSE EASTING: 1,640,416.67 FEET at C.M.
 00000000 000000 000000 000000



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
 Block 52 Proposed PLET Hub, Walker Ridge Area
 to
 Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
 202 STANTON STREET
 BROUSSARD, LA 70518
 (337) 210-0000
 LA Reg. No. 747

JOB: 216819

DRW: J. Guidry

DATE: August 12, 2022

CKD: D. Pierrottie

APP: R. Frost

SHEET 18 of 51

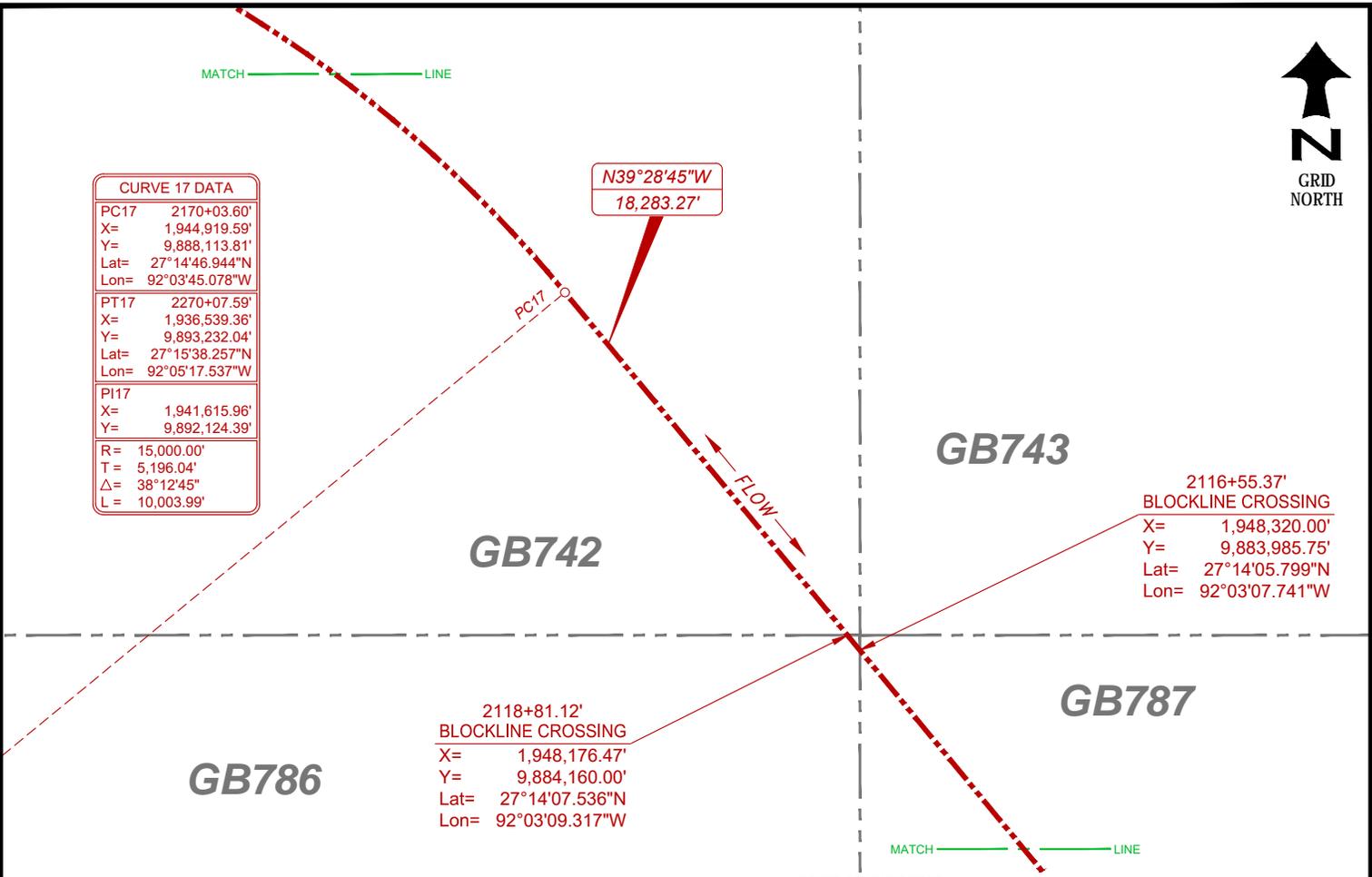
REV. 1

DOC: 216819-OII-DRW-PRM-001-18



CURVE 17 DATA	
PC17	2170+03.60'
X=	1,944,919.59'
Y=	9,888,113.81'
Lat=	27°14'46.944"N
Lon=	92°03'45.078"W
PT17	2270+07.59'
X=	1,936,539.36'
Y=	9,893,232.04'
Lat=	27°15'38.257"N
Lon=	92°05'17.537"W
PI17	
X=	1,941,615.96'
Y=	9,892,124.39'
R=	15,000.00'
T=	5,196.04'
Δ=	38°12'45"
L=	10,003.99'

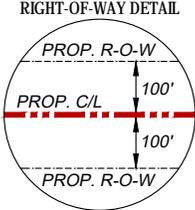
N39°28'45"W
18,283.27'



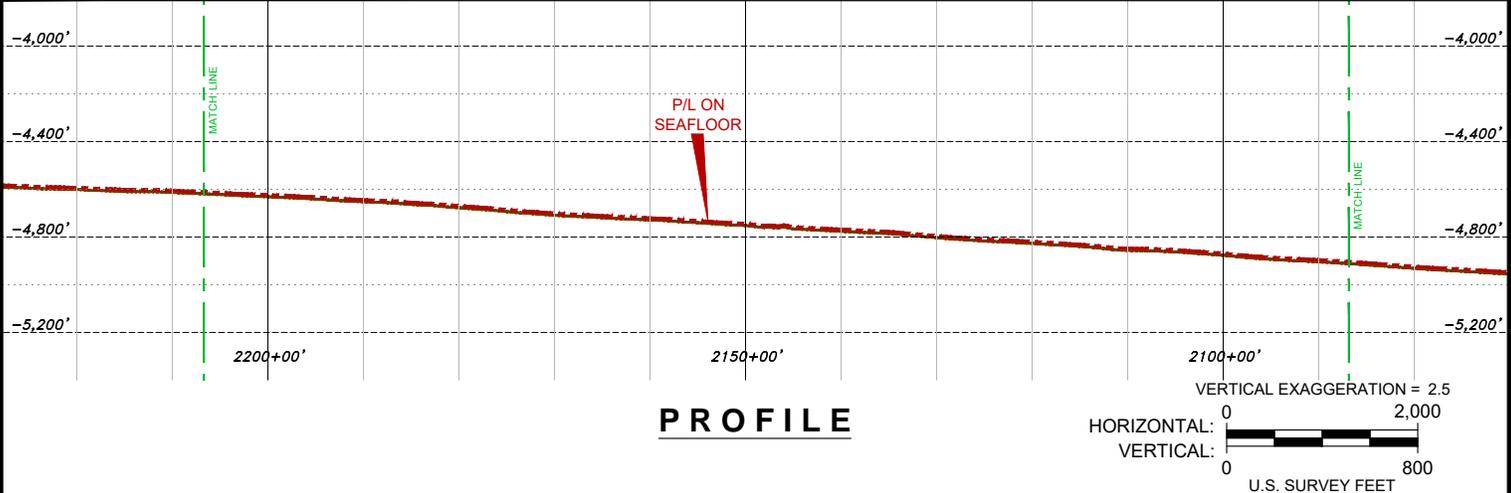
FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.



SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.



GEODETIC DATUM: NAD27
 ELLIPSOID: CLARKE 1866
 GRID UNITS: U.S. SURVEY FEET
 PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
 ZONE: 15N
 ÖÇÜMÜÇSÜ ÖLÇÜMÜÇSÜ ÖLÇÜMÜÇSÜ
 FALSE EASTING: 1,640,416.67 FEET at C.M.
 ÖLÇÜMÜÇSÜ ÖLÇÜMÜÇSÜ ÖLÇÜMÜÇSÜ



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
 Block 52 Proposed PLET Hub, Walker Ridge Area
 to
 Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:

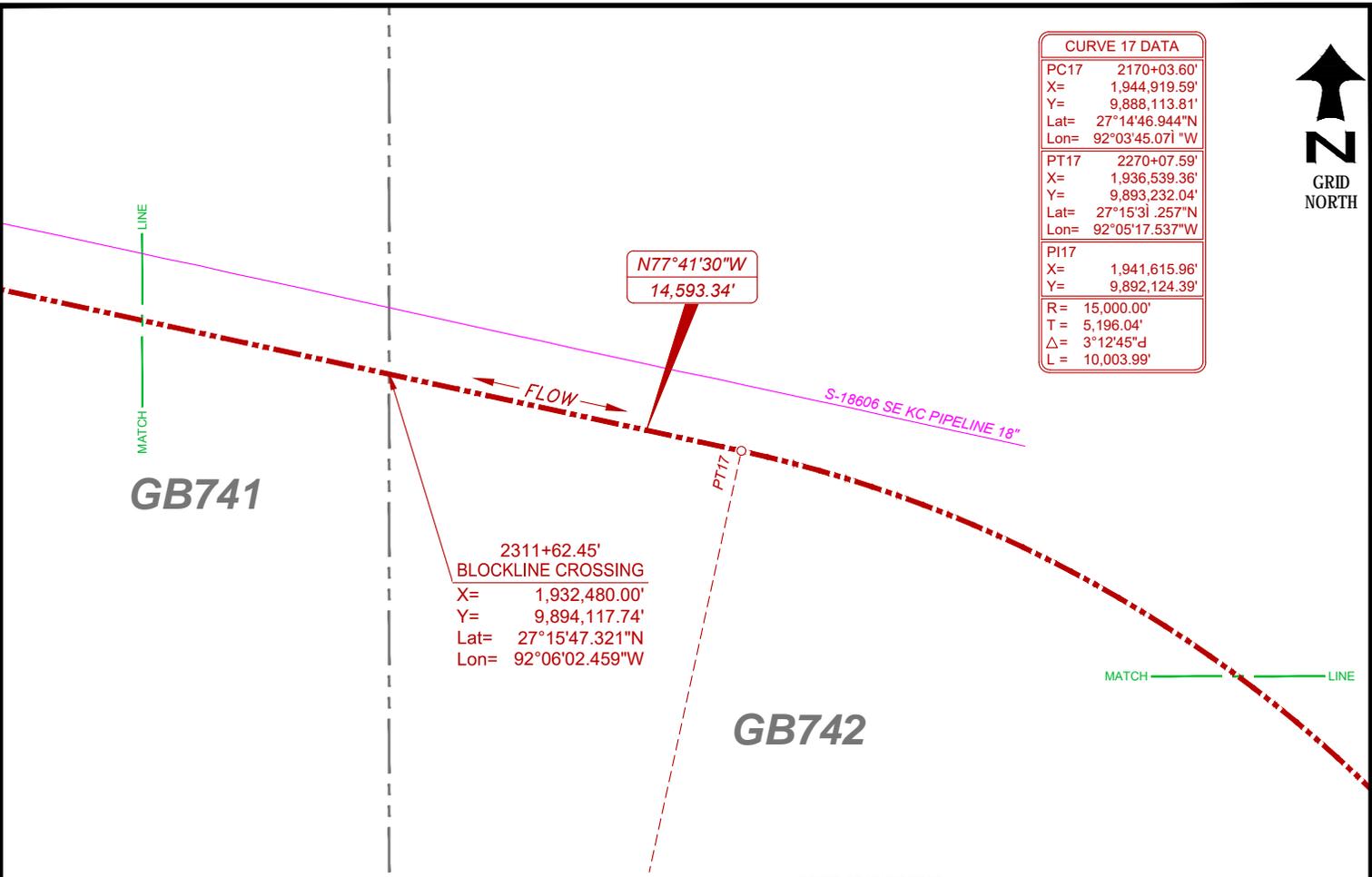


OCEANEERING INTERNATIONAL, INC.
 202 STANTON STREET
 BROUSSARD, LA 70518
 (337) 210-0000
 LA Reg. No. 747

JOB: 216819	DRW: J. Guidry	DATE: August 12, 2022
CKD: D. Pierrotte	APP: R. Frost	SHEET 19 of 51
DOC: 216819-OII-DRW-PRM-001-19		



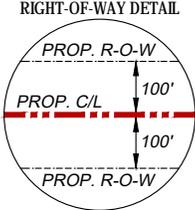
CURVE 17 DATA	
PC17	2170+03.60'
X=	1,944,919.59'
Y=	9,888,113.81'
Lat=	27°14'46.944"N
Lon=	92°03'45.071"W
PT17	2270+07.59'
X=	1,936,539.36'
Y=	9,893,232.04'
Lat=	27°15'31.257"N
Lon=	92°05'17.537"W
PI17	
X=	1,941,615.96'
Y=	9,892,124.39'
R=	15,000.00'
T=	5,196.04'
Δ=	3°12'45"D
L=	10,003.99'



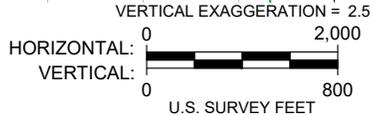
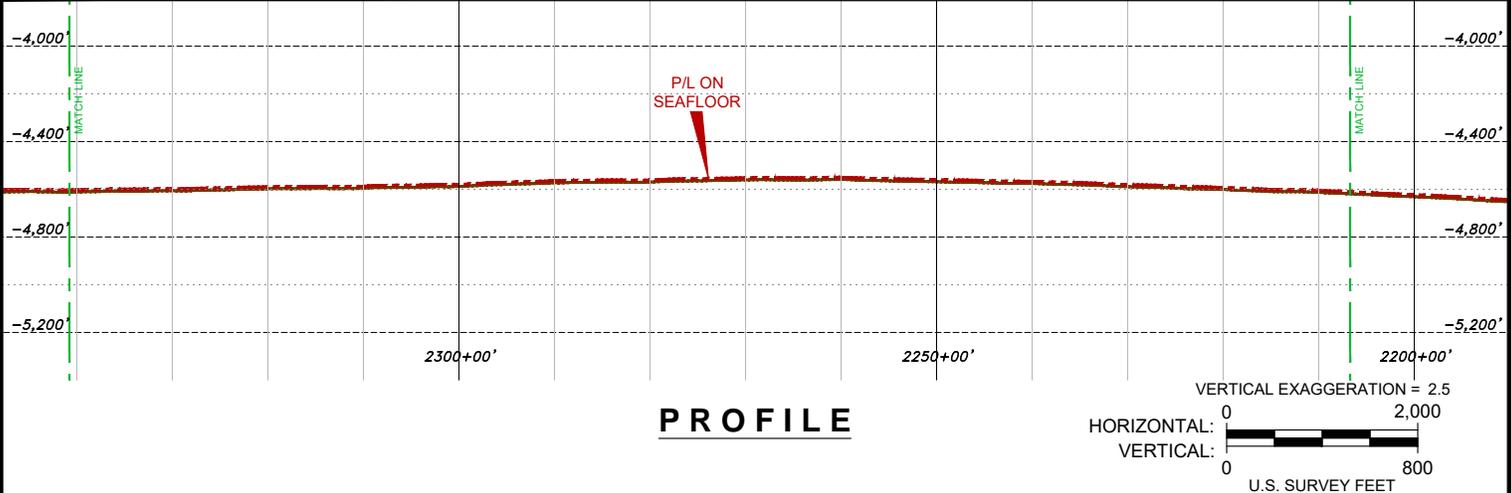
FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.



PLAN
SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.



GEODETIC DATUM: NAD27
 ELLIPSOID: CLARKE 1866
 GRID UNITS: U.S. SURVEY FEET
 PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
 ZONE: 15N
 CENTRAL MERIDIAN: 93° 00' W
 FALSE EASTING: 1,640,416.67 FEET at C.M.
 FALSE NORTHING: 0.00 FEET at 00° 00' N



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
 Block 52 Proposed PLET Hub, Walker Ridge Area
 to
 Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
 202 STANTON STREET
 BROUSSARD, LA 70518
 (337) 210-0000
 LA Reg. No. 747

JOB: 216819	DRW: J. Guidry	DATE: August 12, 2022
CKD: D. Pierrotte	APP: R. Frost	SHEET 20 of 51
DOC: 216819-OII-DRW-PRM-001-20		



GB697

GB740

GB741

MATCH LINE

MATCH LINE

2478+30.92'
BLOCKLINE CROSSING
X= 1,916,640.00'
Y= 9,898,879.09'
Lat= 27°16'35.584"N
Lon= 92°08'57.671"W

CURVE 18 DATA	
PC18	2416+00.93'
X=	1,922,281.45'
Y=	9,896,342.93'
Lat=	27°16'10.077"N
Lon=	92°07'55.328"W
PT18	2514+36.06'
X=	1,914,009.30'
Y=	9,901,331.43'
Lat=	27°17'00.053"N
Lon=	92°09'26.650"W
PI18	
X=	1,917,297.06'
Y=	9,897,430.46'
R=	15,000.00'
T=	5,101.66'
Δ=	37°34'03"
L=	9,835.13'

N77°41'30"W
14,593.34'

S-18606 SE KC PIPELINE 18"

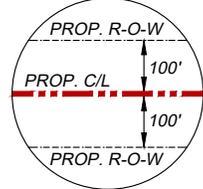
FLOW

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

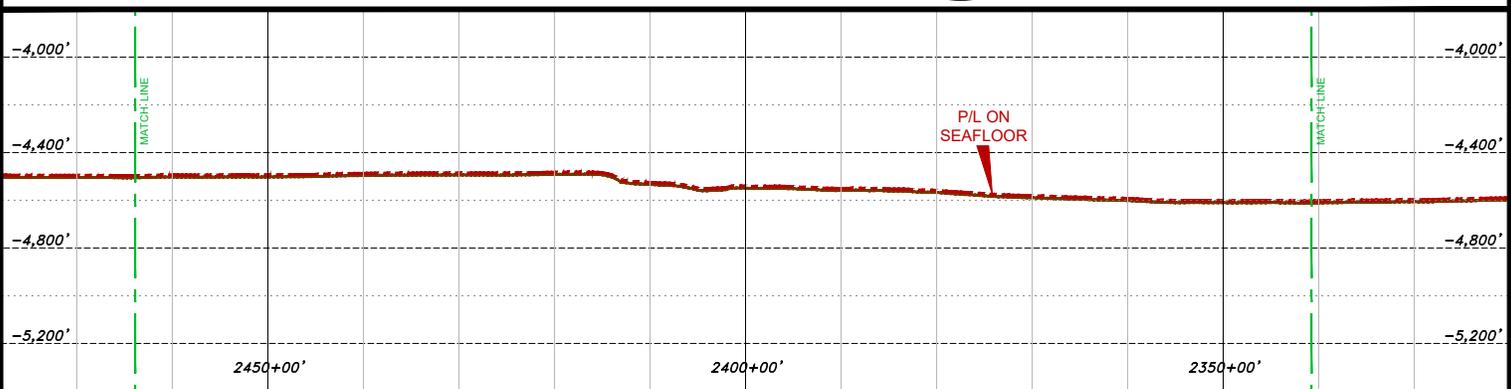


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

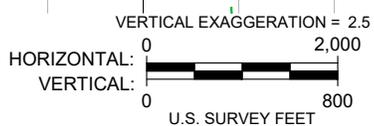
RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



PROFILE



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819	DRW: J. Guidry	DATE: August 12, 2022
CKD: D. Pierrottie	APP: R. Frost	SHEET 21 of 51
DOC: 216819-OII-DRW-PRM-001-21		

GB696

GB697

GB741

GB740



N40°07'27"W
36,052.22'

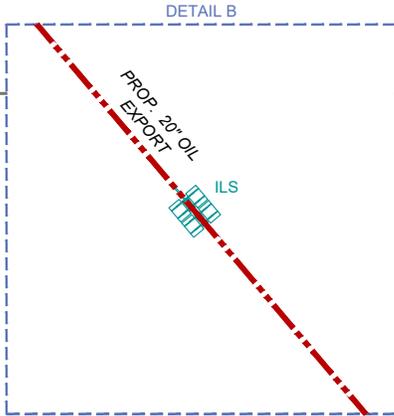
N40°07'27"W
2,609.96'

2540+46.01'
IN-LINE SLED
X= 1,912,327.32'
Y= 9,903,327.13'
Lat= 27°17'19.934"N
Lon= 92°09'45.149"W

2495+95.11'
BLOCKLINE CROSSING
X= 1,915,278.99'
Y= 9,900,000.00'
Lat= 27°16'46.779"N
Lon= 92°09'12.674"W

2478+30.92'
BLOCKLINE CROSSING
X= 1,916,640.00'
Y= 9,898,879.09'
Lat= 27°16'35.584"N
Lon= 92°08'57.671"W

CURVE 18 DATA	
PC18	2416+00.93'
X=	1,922,281.45'
Y=	9,896,342.93'
Lat=	27°16'10.077"N
Lon=	92°07'55.328"W
PT18	2514+36.06'
X=	1,914,009.30'
Y=	9,901,331.43'
Lat=	27°17'00.053"N
Lon=	92°09'26.650"W
PI18	
X=	1,917,297.06'
Y=	9,897,430.46'
R=	15,000.00'
T=	5,101.66'
Δ=	37°34'03"
L=	9,835.13'

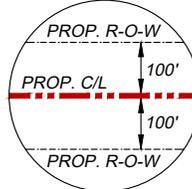


FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

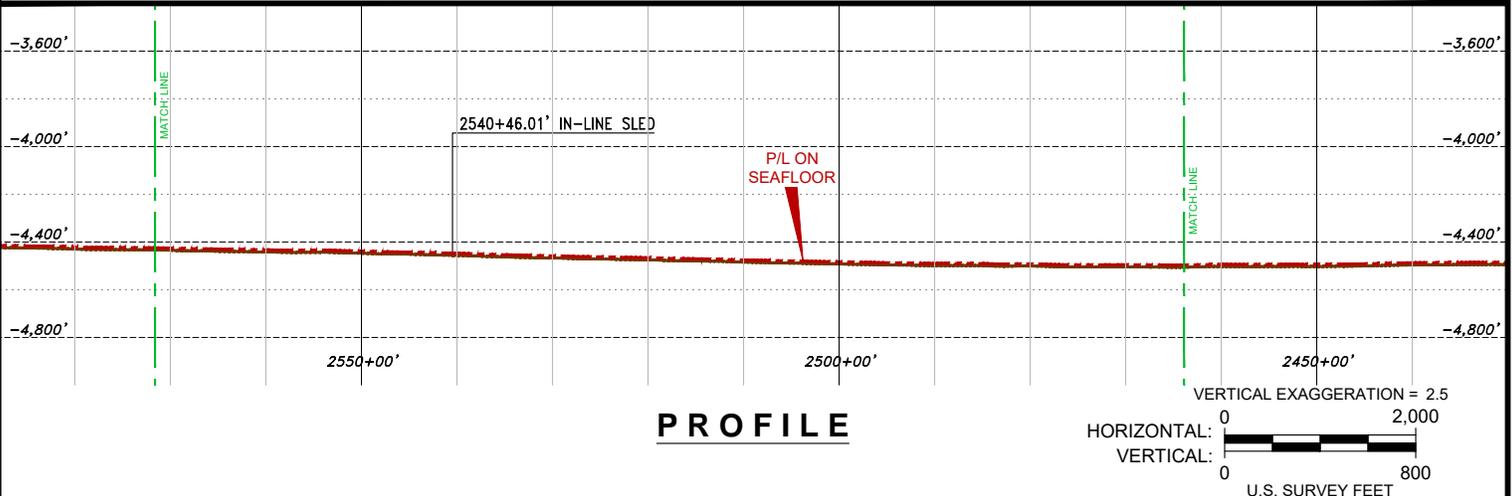


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
 ELLIPSOID: CLARKE 1866
 GRID UNITS: U.S. SURVEY FEET
 PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
 ZONE: 15N
 CENTRAL MERIDIAN: 93° 00' W
 FALSE EASTING: 1,640,416.67 FEET at C.M.
 FALSE NORTHING: 0.00 FEET at 00° 00' N



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
 Block 52 Proposed PLET Hub, Walker Ridge Area
 to
 Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
 202 STANTON STREET
 BROUSSARD, LA 70518
 (337) 210-0000
 LA Reg. No. 747

JOB: 216819

DRW: J. Guidry

DATE: August 12, 2022

CKD: D. Pierrotte

APP: R. Frost

DOC: 216819-OII-DRW-PRM-001-22

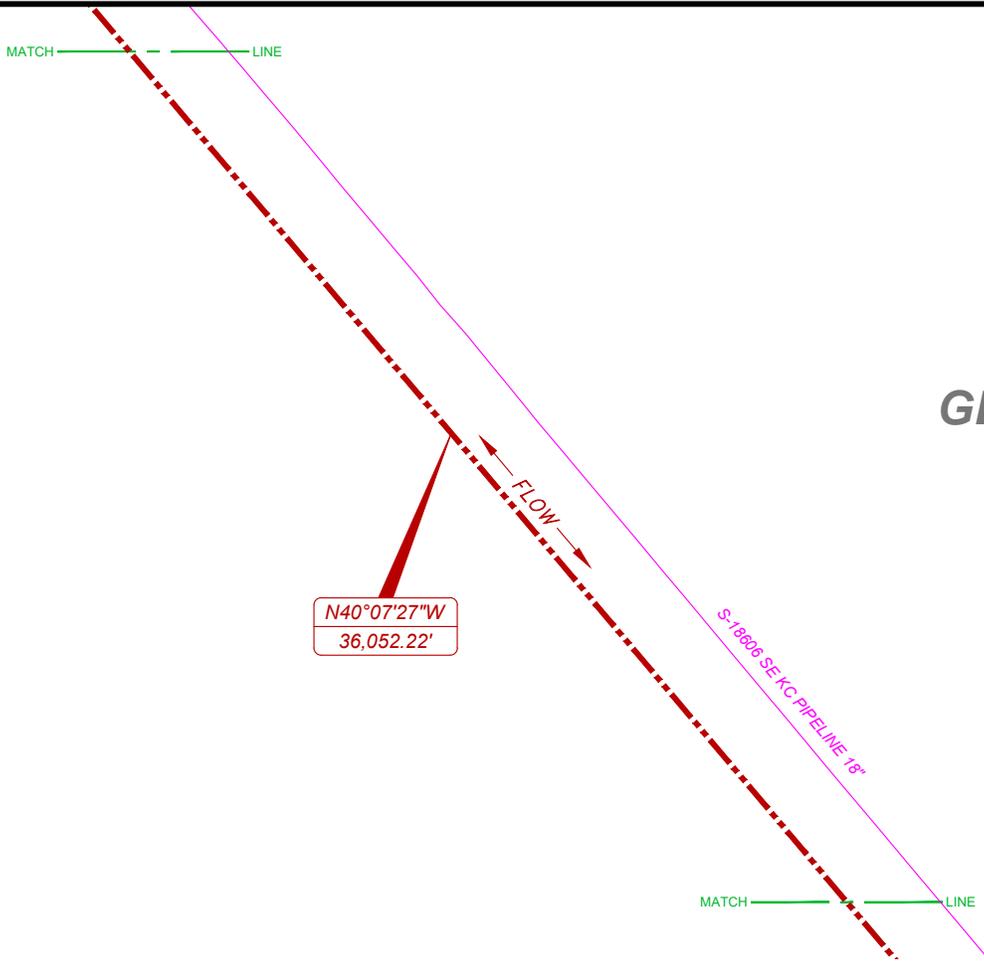
SHEET 22 of 51

REV. 1



GB695

GB696

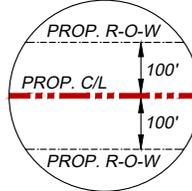


FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

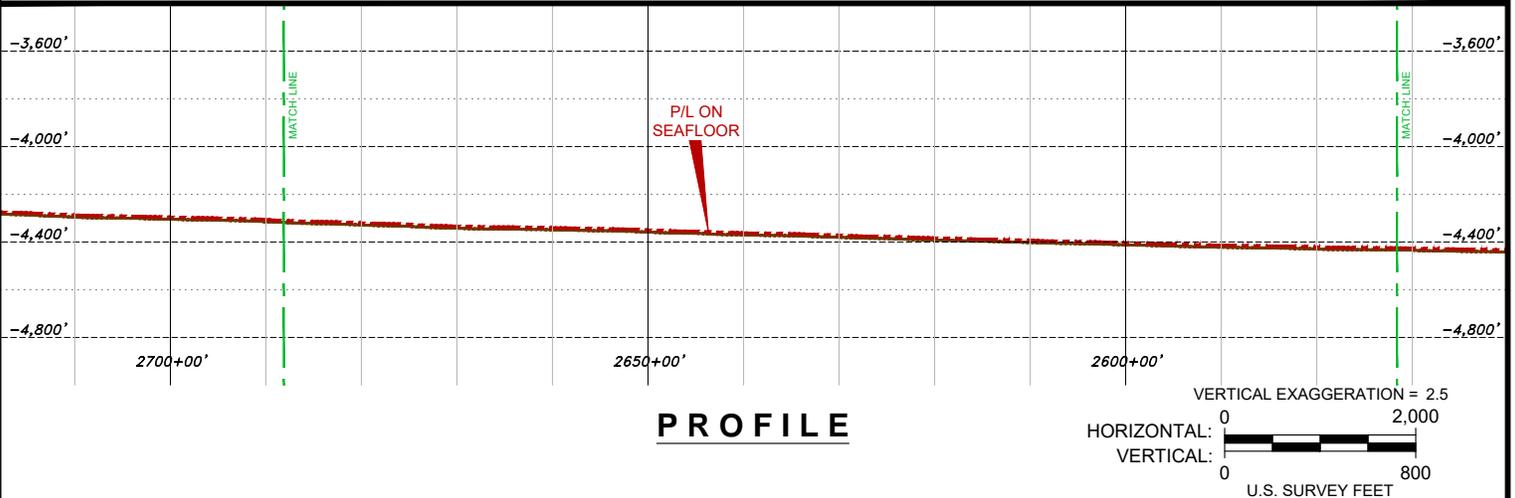


PLAN
SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819

DRW: J. Guidry

DATE: August 12, 2022

CKD: D. Pierrotte

APP: R. Frost

SHEET 23 of 51

REV. 1

DOC: 216819-OII-DRW-PRM-001-23



GB651

GB652

N40°07'27"W
36,052.22'

2719+33.14'
BLOCKLINE CROSSING
X= 1,900,800.00'
Y= 9,917,004.50'
Lat= 27°19'36.170"N
Lon= 92°11'51.975"W

2704+10.22'
BLOCKLINE CROSSING
X= 1,901,781.44'
Y= 9,915,840.00'
Lat= 27°19'24.572"N
Lon= 92°11'41.174"W

GB695

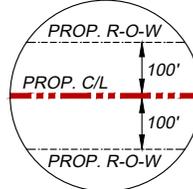
GB696

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

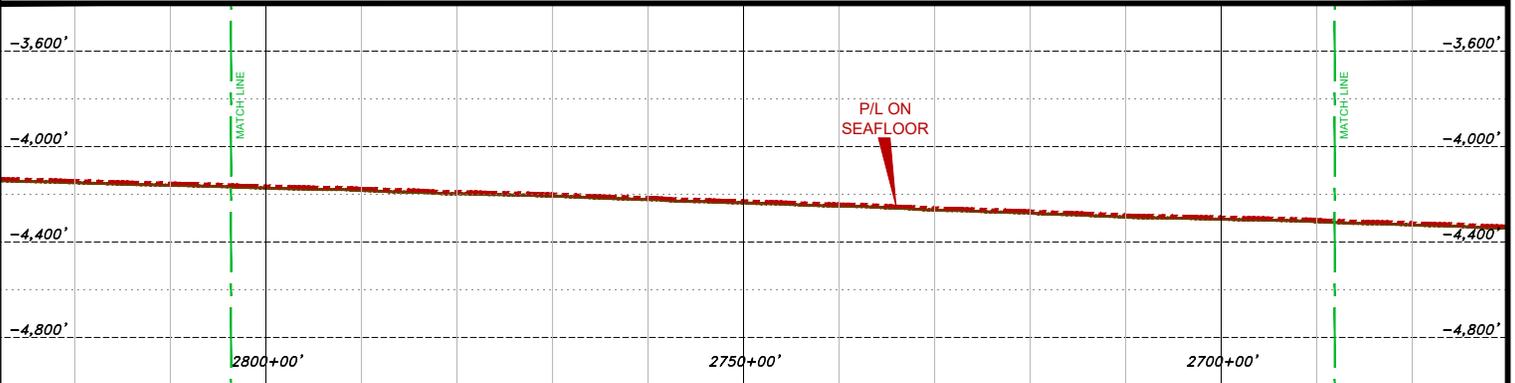


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

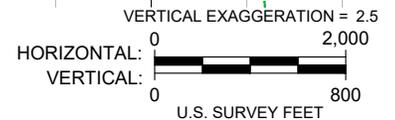
RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



PROFILE



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819	DRW: J. Guidry	DATE: August 12, 2022
CKD: D. Pierrotte	APP: R. Frost	SHEET 24 of 51
DOC: 216819-OII-DRW-PRM-001-24		

GB607



2910+98.28'
BLOCKLINE CROSSING
X= 1,888,475.03'
Y= 9,931,680.00'
Lat= 27°22'02.311"N
Lon= 92°14'07.669"W

2898+73.07'
S-14351 ENBRIDGE 16"
X= 1,889,238.65'
Y= 9,930,722.23'
Lat= 27°21'52.777"N
Lon= 92°13'59.262"W

2902+97.02'
S-14350 SHELL 14"
X= 1,888,966.45'
Y= 9,931,047.25'
Lat= 27°21'56.013"N
Lon= 92°14'02.260"W

CURVE 19 DATA	
PC19	2900+98.23'
X=	1,889,093.55'
Y=	9,930,894.40'
Lat=	27°21'54.491"N
Lon=	92°14'00.160"W
PT19	2997+34.79'
X=	1,885,588.38'
Y=	9,939,693.65'
Lat=	27°23'21.161"N
Lon=	92°14'39.156"W
PI19	
X=	1,885,877.02'
Y=	9,934,710.86'
R=	15,000.00'
T=	4,991.14'
Δ=	36°4'32"Δ
L=	9,636.56'

GB650

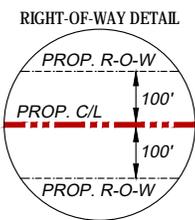
GB651

N40°07'27"W
36,052.22'

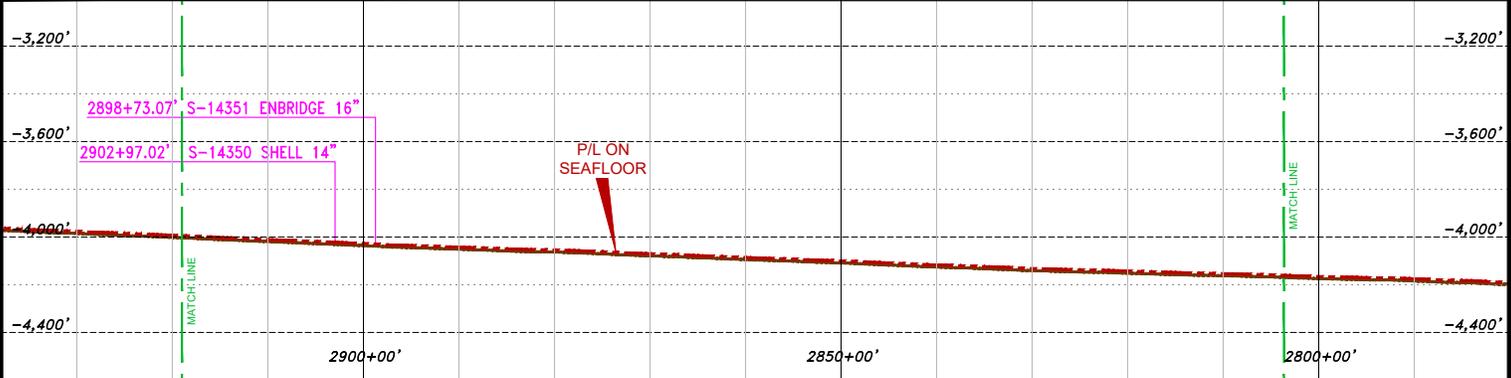
FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.



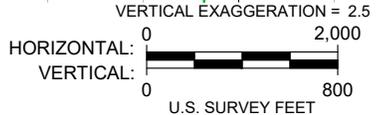
SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



PROFILE



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819	DRW: J. Guidry	DATE: August 12, 2022
CKD: D. Pierrotte	APP: R. Frost	SHEET 25 of 51
DOC: 216819-OII-DRW-PRM-001-25		

GB562

GB563



3076+01.17'
BLOCKLINE CROSSING
X= 1,885,133.46'
Y= 9,947,546.86'
Lat= 27°24'39.688"N
Lon= 92°14'43.676"W

GB606

GB607

N03°18'55"W
22,244.46'

MATCH LINE

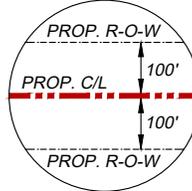
MATCH LINE

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

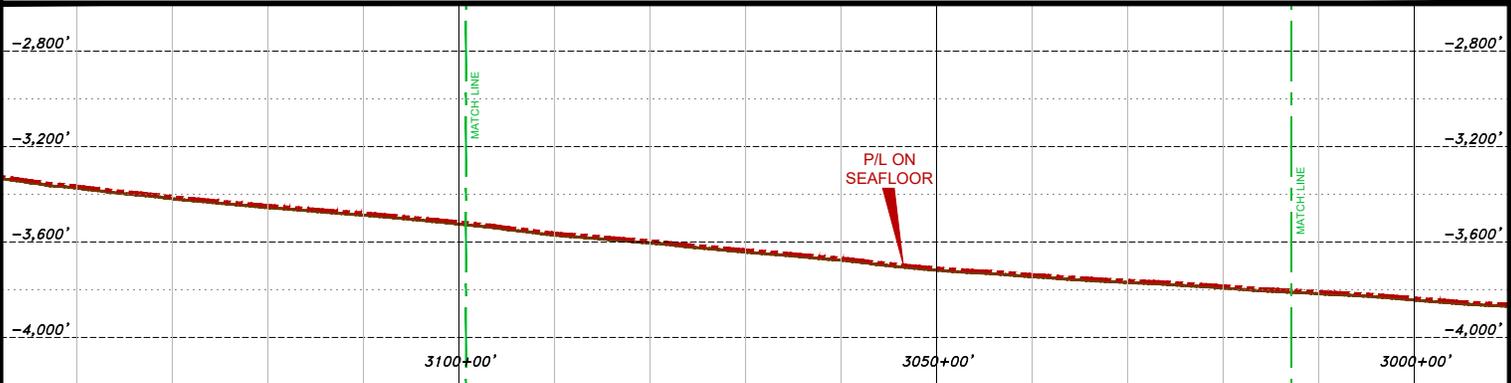


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

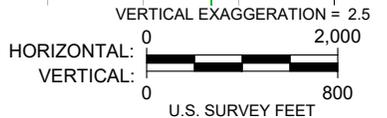
RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



PROFILE



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819

DRW: J. Guidry

DATE: August 12, 2022

CKD: D. Pierrotte

APP: R. Frost

DOC: 216819-OII-DRW-PRM-001-27

SHEET 27 of 51

REV. 1

GB562

GB563



N03°18'55"W
22,244.46'

3106+00.50'
BLOCKLINE CROSSING
X= 1,884,960.00'
Y= 9,950,541.17'
Lat= 27°25'09.360"N
Lon= 92°14'45.400"W

MATCH LINE

FLOW

S-14351 ENBRIDGE 16"
S-14350 SHELL 14"

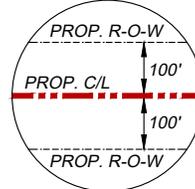
MATCH LINE

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

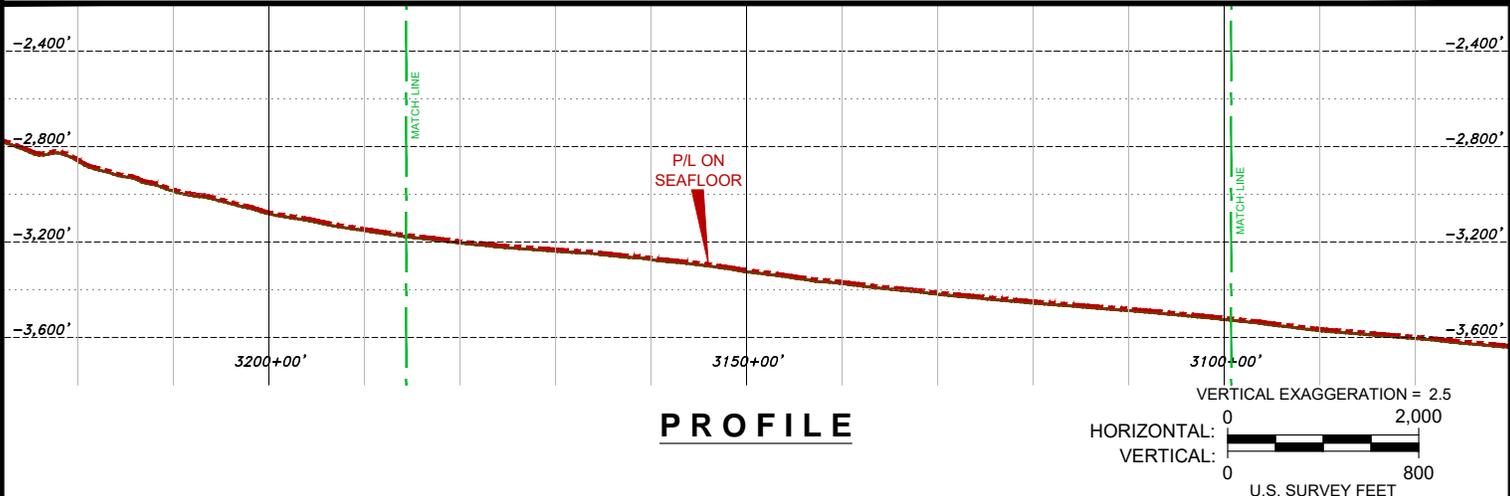


NADCON version 2.1 utilized for WGS84-NAD27 conversions.

RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819	DRW: J. Guidry	DATE: August 12, 2022
CKD: D. Pierrotte	APP: R. Frost	SHEET 28 of 51
DOC: 216819-OII-DRW-PRM-001-28		

CURVE 20 DATA	
PC20	3219+79.24'
X=	1,884,301.95'
Y=	9,961,900.87'
Lat=	27°27'01.927"N
Lon=	92°14'51.941"W
PT20	3310+70.77'
X=	1,886,475.18'
Y=	9,970,586.11'
Lat=	27°28'27.830"N
Lon=	92°14'27.223"W
PI20	
X=	1,884,030.71'
Y=	9,966,583.26'
R=	15,000.00'
T=	4,690.23'
Δ=	34°43'37"
L=	9,091.53'

3273+91.66'
BLOCKLINE CROSSING
X= 1,884,960.00'
Y= 9,967,243.60'
Lat= 27°27'54.811"N
Lon= 92°14'44.275"W

3234+39.01'
BLOCKLINE CROSSING
X= 1,884,288.52'
Y= 9,963,360.00'
Lat= 27°27'16.381"N
Lon= 92°14'51.992"W

N03°18'55"W
22,244.46'

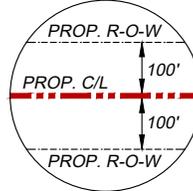


FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

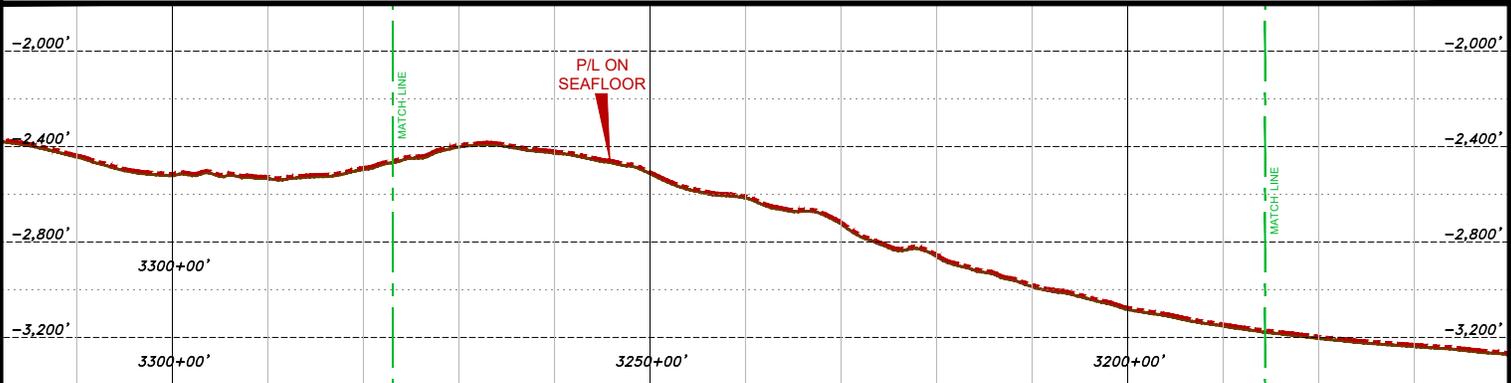


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

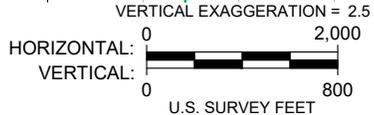
RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



PROFILE



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY: OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819	DRW: J. Guidry	DATE: August 12, 2022
CKD: D. Pierrotte	APP: R. Frost	SHEET 29 of 51
DOC: 216819-OII-DRW-PRM-001-29		



GB519

GB518

N31°24'42"E
178.55'

3273+91.66'
BLOCKLINE CROSSING
X= 1,884,960.00'
Y= 9,967,243.60'
Lat= 27°27'54.811"N
Lon= 92°14'44.275"W

CURVE 20 DATA		CURVE 21 DATA	
PC20	3219+79.24'	PC21	3312+49.33'
X=	1,884,301.95'	X=	1,886,568.24'
Y=	9,961,900.87'	Y=	9,970,738.50'
Lat=	27°27'01.927"N	Lat=	27°28'29.334"N
Lon=	92°14'51.941"W	Lon=	92°14'21.179"W
PT20	3310+70.77'	PT21	3556+67.42'
X=	1,886,475.18'	X=	1,880,841.34'
Y=	9,970,586.11'	Y=	9,991,783.05'
Lat=	27°28'27.830"N	Lat=	27°31'58.139"N
Lon=	92°14'27.223"W	Lon=	92°15'28.381"W
PI20		PI21	
X=	1,884,030.71'	X=	1,894,845.46'
Y=	9,966,583.26'	Y=	9,984,292.51'
R=	15,000.00'	R=	15,000.00'
T=	4,690.23'	T=	15,881.55'
Δ=	34°43'37"	Δ=	93°1'13"D
L=	9,091.53'	L=	24,418.09'

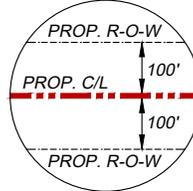
MATCH — LINE

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

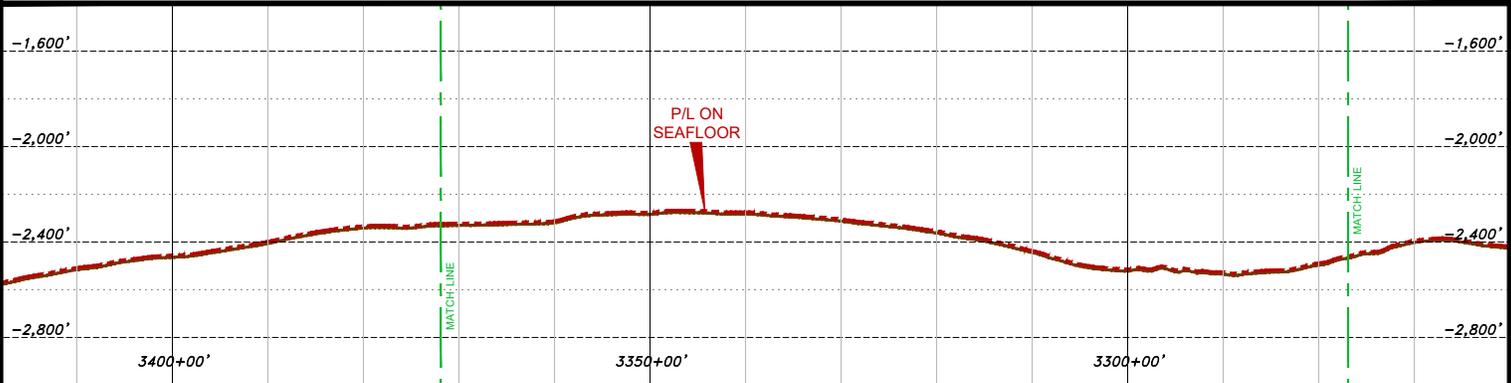


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

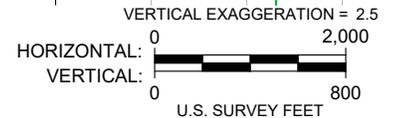
RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



PROFILE



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819

DRW: J. Guidry

DATE: August 12, 2022

CKD: D. Pierrotte

APP: R. Frost

SHEET 30 of 51

REV. 1

DOC: 216819-OII-DRW-PRM-001-30



CURVE 21 DATA	
PC21	3312+49.33'
X=	1,886,568.24'
Y=	9,970,738.50'
Lat=	27°28'29.334"N
Lon=	92°14'21.179"W
PT21	3556+67.42'
X=	1,880,841.34'
Y=	9,991,783.05'
Lat=	27°31'58.139"N
Lon=	92°15'28.381"W
PI21	
X=	1,894,845.46'
Y=	9,984,292.51'
R=	15,000.00'
T=	15,881.55'
Δ=	93°1'13"d
L=	24,418.09'

GB474

GB475

MATCH ——— LINE

FLOW

3401+16.83'
BLOCKLINE CROSSING
X= 1,888,752.76'
Y= 9,979,200.00'
Lat= 27°29'53.018"N
Lon= 92°14'01.339"W

GB518

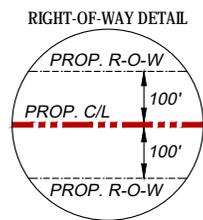
GB519

MATCH ——— LINE

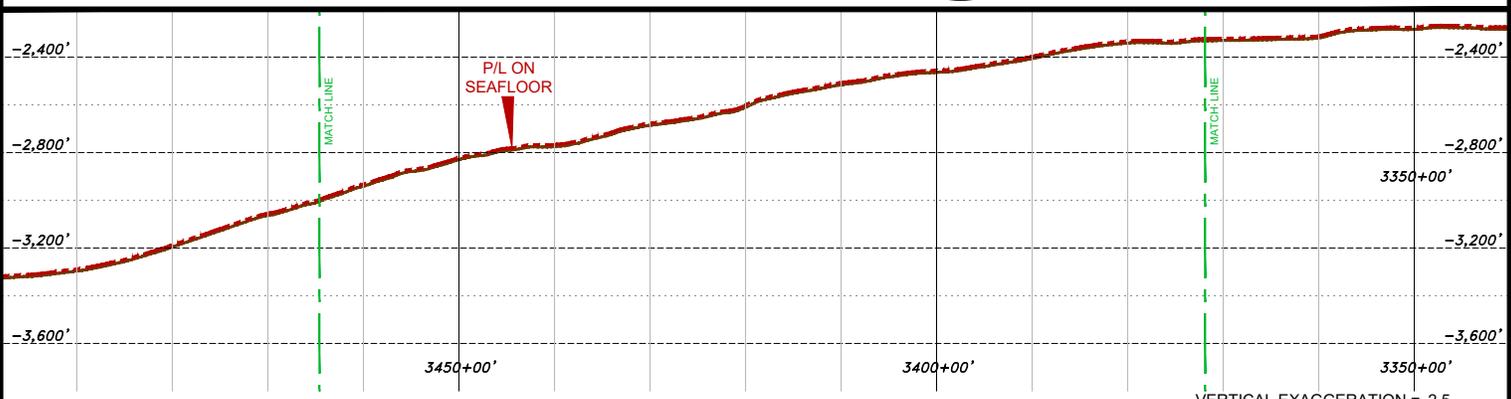
FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.



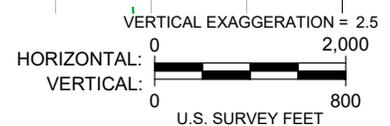
SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



PROFILE



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819	DRW: J. Guidry	DATE: August 12, 2022
CKD: D. Pierrotte	APP: R. Frost	SHEET 31 of 51
DOC: 216819-OII-DRW-PRM-001-31		



MATCH LINE

N61°51'31"W
19,604.67'

GB474

GB475

3503+99.18'
BLOCKLINE CROSSING
X= 1,884,960.00'
Y= 9,988,541.62'
Lat= 27°31'25.784"N
Lon= 92°14'42.837"W

CURVE 21 DATA	
PC21	3312+49.33'
X=	1,886,568.24'
Y=	9,970,738.50'
Lat=	27°28'29.334"N
Lon=	92°14'26.179"W
PT21	3556+67.42'
X=	1,880,841.34'
Y=	9,991,783.05'
Lat=	27°31'58.139"N
Lon=	92°15'28.381"W
PI21	
X=	1,894,845.46'
Y=	9,984,292.51'
R=	15,000.00'
T=	15,881.55'
Δ=	93°16'13"
L=	24,418.09'

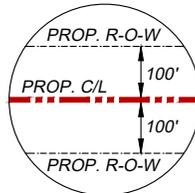
MATCH LINE

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

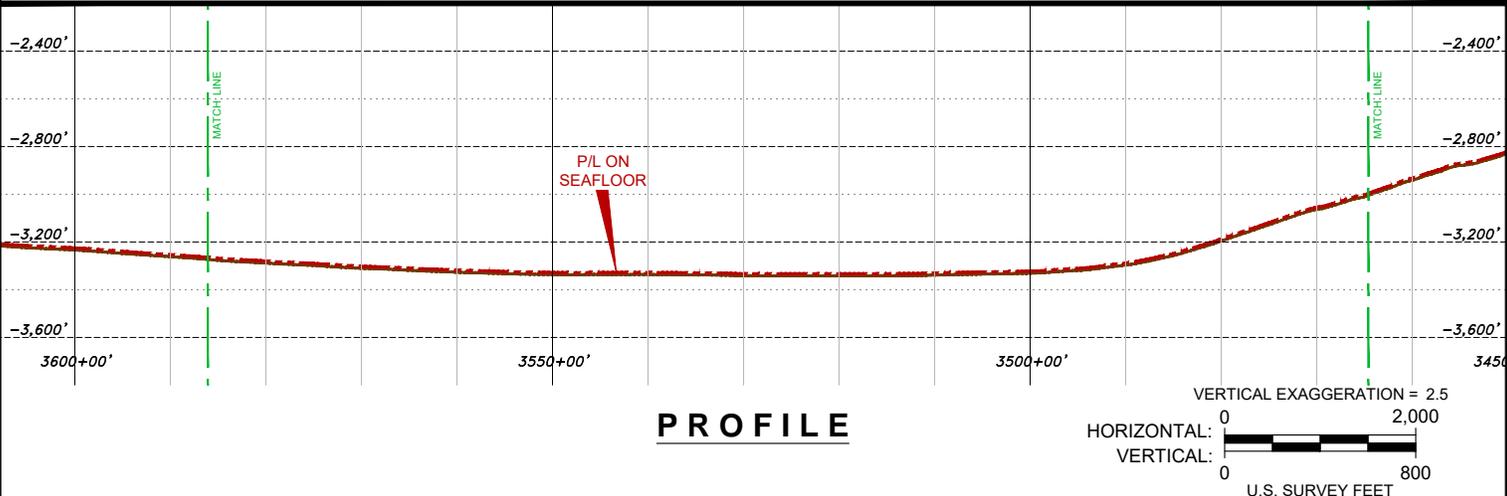


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

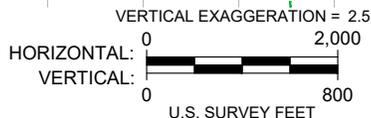
RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



PROFILE



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819

DRW: J. Guidry

DATE: August 12, 2022

CKD: D. Pierrotte

APP: R. Frost

DOC: 216819-OII-DRW-PRM-001-32

SHEET 32 of 51

REV. 1



GB429

GB473

GB430

GB474

3689+60.15'
BLOCKLINE CROSSING
X= 1,869,120.00'
Y= 9,998,052.57'
Lat= 27°33'00.922"N
Lon= 92°17'38.224"W

N61°51'31"W
19,604.67'

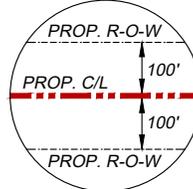
3625+72.86'
BLOCKLINE CROSSING
X= 1,874,752.22'
Y= 9,995,040.00'
Lat= 27°32'30.758"N
Lon= 92°16'35.828"W

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

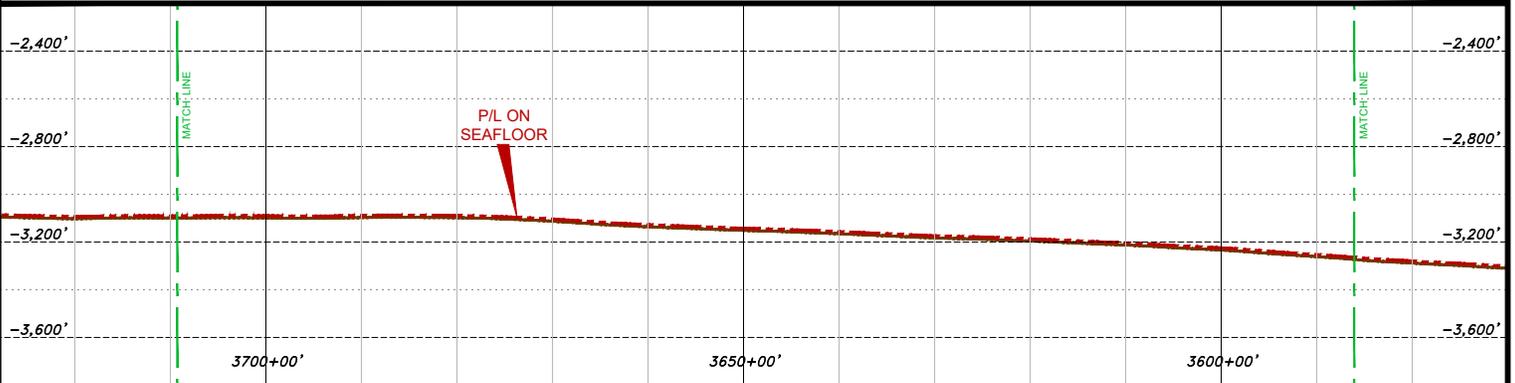


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

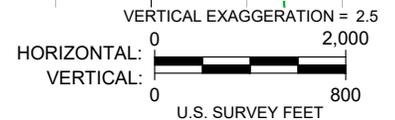
RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



PROFILE



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819

DRW: J. Guidry

DATE: August 12, 2022

CKD: D. Pierrottie

APP: R. Frost

DOC: 216819-OII-DRW-PRM-001-33

SHEET 33 of 51

REV. 1



GB430

MATCH ——— LINE

FLOW →

GB429

3689+60.15'
BLOCKLINE CROSSING
X= 1,869,120.00'
Y= 9,998,052.57'
Lat= 27°33'00.922"N
Lon= 92°17'38.224"W

CURVE 22 DATA	
PC22	3752+72.09'
X=	1,863,554.22'
Y=	10,001,029.60'
Lat=	27°33'30.722"N
Lon=	92°18'39.894"W
PT22	3847+69.79'
X=	1,857,583.70'
Y=	10,008,121.99'
Lat=	27°34'41.303"N
Lon=	92°19'45.824"W
PI22	
X=	1,859,152.94'
Y=	10,003,383.76'
R=	12,500.00'
T=	4,991.33'
Δ=	43°32'03"
L=	9,497.70'

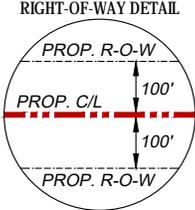
N61°51'31"W
19,604.67'

MATCH ——— LINE

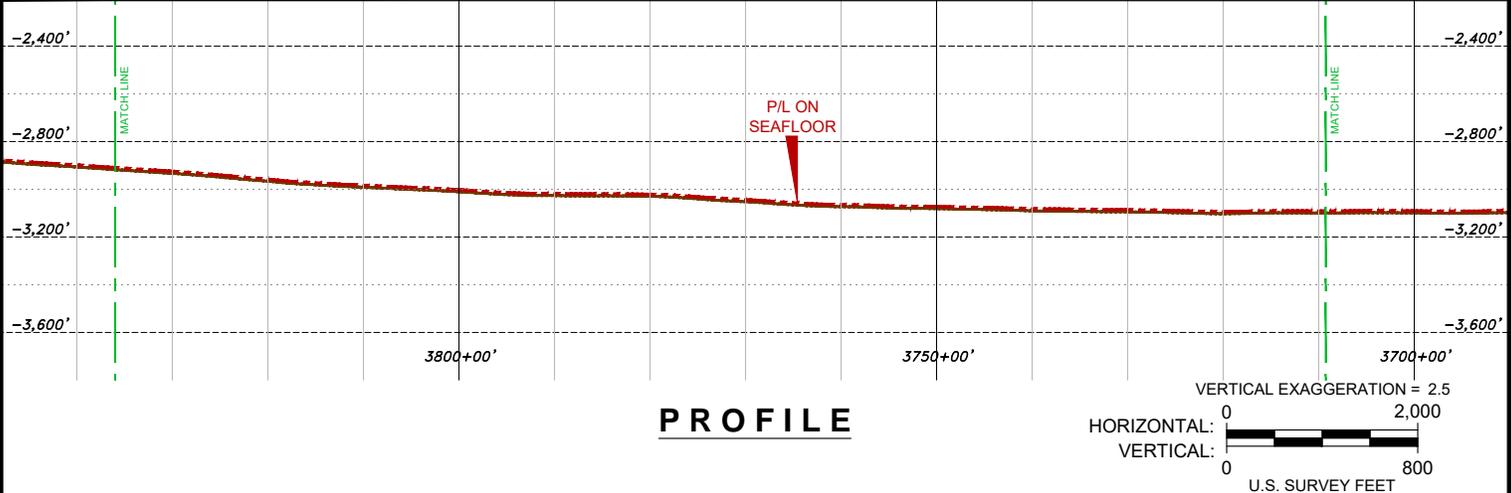
FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.



SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819	DRW: J. Guidry	DATE: August 12, 2022
CKD: D. Pierrotte	APP: R. Frost	SHEET 34 of 51
DOC: 216819-OII-DRW-PRM-001-34		



GB384

3908+43.66' SHELL
S-14323 8" & S-14324 12" Casing
X= 1,855,674.11'
Y= 10,013,887.86'
Lat= 27°35'38.521"N
Lon= 92°20'06.706"W

GB385
OCS-G-17358
SHELL

N18°19'27"W
19,099.83'

3876+75.13'
BLOCKLINE CROSSING
X= 1,856,670.28'
Y= 10,010,880.00'
Lat= 27°35'08.672"N
Lon= 92°19'55.812"W

3901+85.15' SHELL
S-14325 8" & S-14326 12" Casing
X= 1,855,881.14'
Y= 10,013,262.75'
Lat= 27°35'32.317"N
Lon= 92°20'04.442"W

CURVE 22 DATA	
PC22	3752+72.09'
X=	1,863,554.22'
Y=	10,001,029.60'
Lat=	27°33'30.722"N
Lon=	92°18'39.894"W
PT22	3847+69.79'
X=	1,857,583.70'
Y=	10,008,121.99'
Lat=	27°34'41.303"N
Lon=	92°19'45.824"W
PI22	
X=	1,859,152.94'
Y=	10,003,383.76'
R=	12,500.00'
T=	4,991.33'
Δ=	43°32'03"
L=	9,497.70'

GB428

3860+30.98'
S-14327 SHELL 5" Umb.
X= 1,857,187.19'
Y= 10,009,319.22'
Lat= 27°34'53.184"N
Lon= 92°19'50.159"W

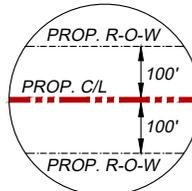
GB429

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

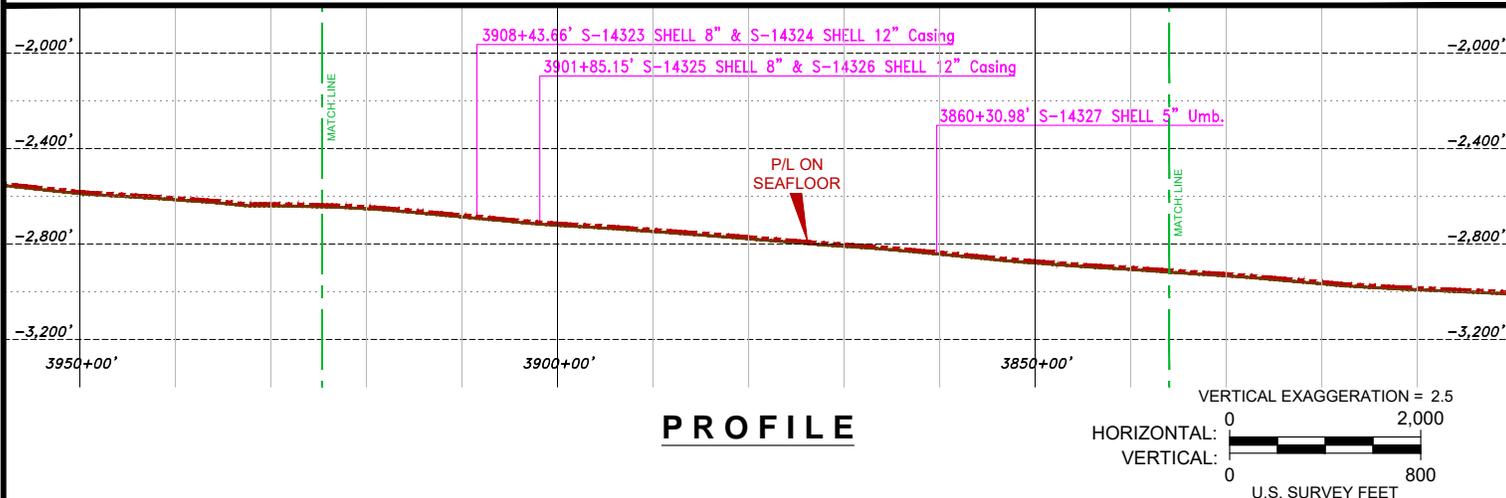


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819

DRW: J. Guidry

DATE: August 12, 2022

CKD: D. Pierrotte

APP: R. Frost

DOC: 216819-OII-DRW-PRM-001-35

SHEET 35 of 51

REV.
1



3984+58.65'
BLOCKLINE CROSSING
X= 1,853,280.00'
Y= 10,021,116.72'
Lat= 27°36'50.255"N
Lon= 92°20'32.896"W

3983+41.88'
S-14170 SHELL 5" Umb.
X= 1,853,316.71'
Y= 10,021,005.87'
Lat= 27°36'49.155"N
Lon= 92°20'32.494"W

GB384

GB385
OCS-G-17358
SHELL

S-14170 SHELL 5" Umb.

N18°19'27"W
19,099.83'

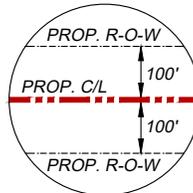
FLOW

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

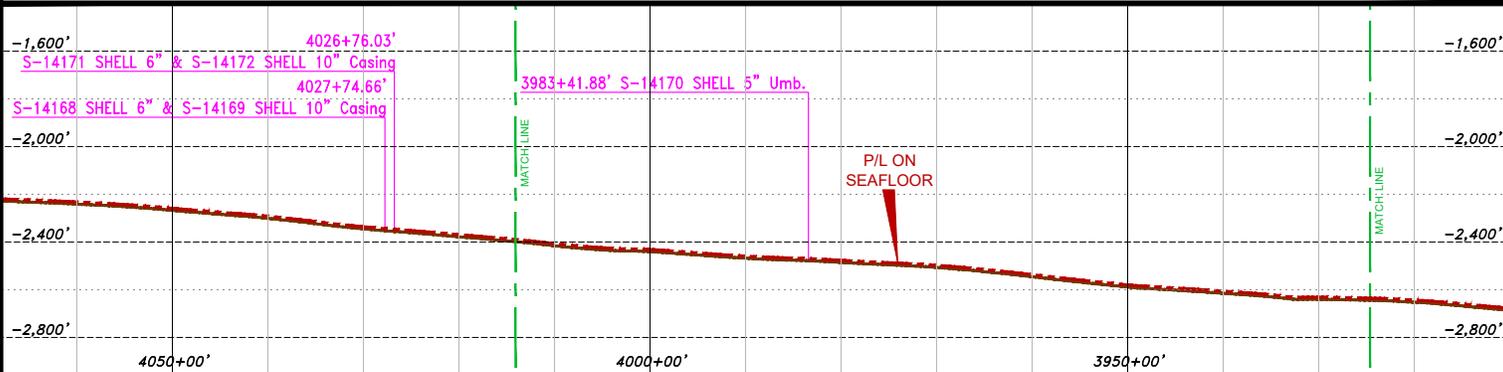


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

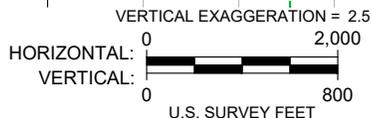
RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



PROFILE



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819

DRW: J. Guidry

DATE: August 12, 2022

CKD: D. Pierrottie

APP: R. Frost

DOC: 216819-OII-DRW-PRM-001-36

SHEET 36 of 51

REV. 1



4156+78.65'
S-9344 SHELL 12"
X= 1,852,373.95'
Y= 10,037,845.19'
Lat= 27°39'36.011"N
Lon= 92°20'41.984"W

4146+57.88'
S-11229 SHELL 12"
X= 1,852,146.48'
Y= 10,036,850.07'
Lat= 27°39'26.165"N
Lon= 92°20'44.574"W

4118+48.24'
S-10915 SHELL 14"
X= 1,851,520.40'
Y= 10,034,111.08'
Lat= 27°38'59.066"N
Lon= 92°20'51.699"W

CURVE 23 DATA	
PC23	4038+69.63'
X=	1,851,578.82'
Y=	10,026,253.32'
Lat=	27°37'41.226"N
Lon=	92°20'51.511"W
PT23	4106+76.35'
X=	1,851,259.27'
Y=	10,032,968.65'
Lat=	27°38'47.763"N
Lon=	92°20'54.671"W
PI23	
X=	1,850,481.58'
Y=	10,029,566.37'
R=	12,500.00'
T=	3,490.03'
Δ=	31°11'59"
L=	6,806.72'

GB340

GB341
OCS-G-15879
SHELL

N12°52'32"E
40,645.27'

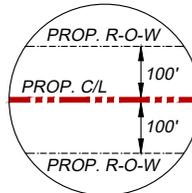
MATCH — LINE

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

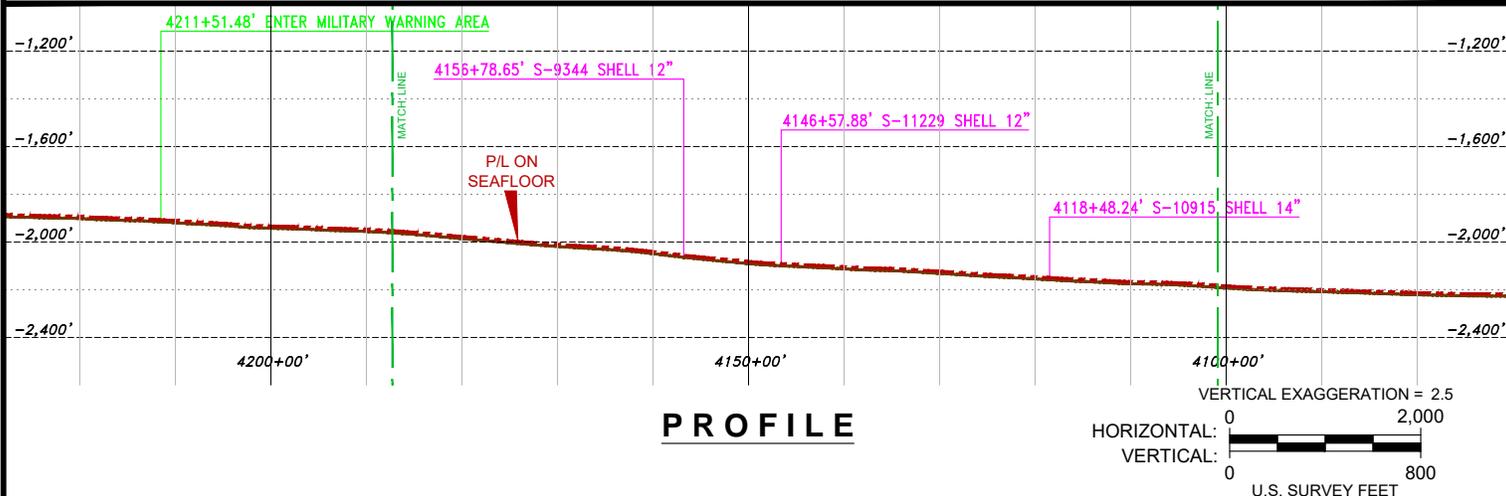


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819

DRW: J. Guidry

DATE: August 12, 2022

CKD: D. Pierrotte

APP: R. Frost

DOC: 216819-OII-DRW-PRM-001-38

SHEET 38 of 51

REV.
1

GB296

GB297



N12°52'32"E
40,645.27'

4205+15.07'
BLOCKLINE CROSSING
X= 1,853,451.66'
Y= 10,042,560.00'
Lat= 27°40'22.658"N
Lon= 92°20'29.716"W

4211+51.48'
ENTER MILITARY WARNING AREA
X= 1,853,593.47'
Y= 10,043,180.41'
Lat= 27°40'28.796"N
Lon= 92°20'28.101"W

MILITARY WARNING AREA W-147AB

4197+44.73'
BLOCKLINE CROSSING
X= 1,853,280.00'
Y= 10,041,809.03'
Lat= 27°40'15.228"N
Lon= 92°20'31.670"W

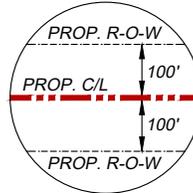
GB341
OCS-G-15879
SHELL

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

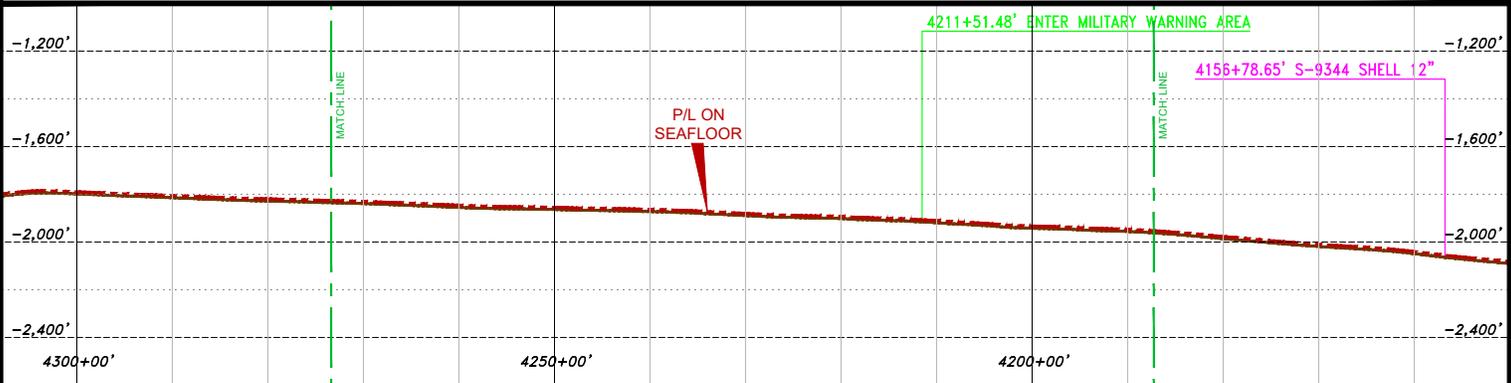


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

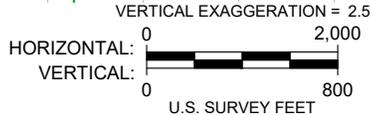
RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



PROFILE



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE

Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

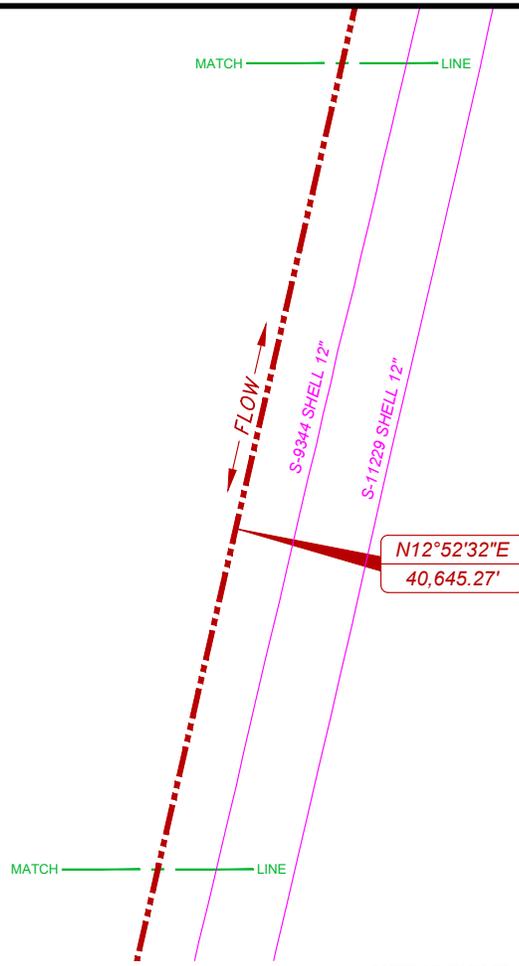
JOB: 216819	DRW: J. Guidry	DATE: August 12, 2022
CKD: D. Pierrottie	APP: R. Frost	SHEET 39 of 51
DOC: 216819-OII-DRW-PRM-001-39		



GB296

MILITARY WARNING
AREA W-147AB

GB297



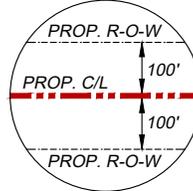
N12°52'32"E
40,645.27'

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

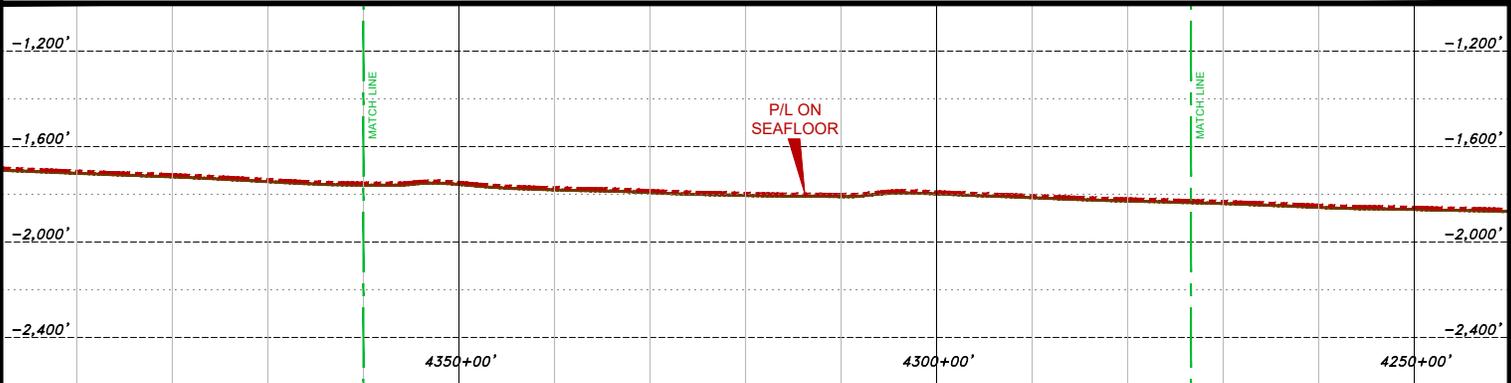


PLAN
SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



PROFILE

VERTICAL EXAGGERATION = 2.5
HORIZONTAL: 0 2,000
VERTICAL: 0 800
U.S. SURVEY FEET

MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819

DRW: J. Guidry

DATE: August 12, 2022

CKD: D. Pierrotte

APP: R. Frost

DOC: 216819-OII-DRW-PRM-001-40

SHEET 40 of 51

REV.
1



GB252

MILITARY WARNING
AREA W-147AB

GB253

4367+63.61'
BLOCKLINE CROSSING
X= 1,857,072.36'
Y= 10,058,400.00'
Lat= 27°42'59.370"N
Lon= 92°19'48.475"W

N12°52'32"E
40,645.27'

MATCH LINE

FLOW

S-9344 SHELL 12"

S-11229 SHELL 12"

GB296

MATCH LINE

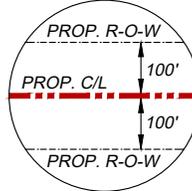
GB297

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

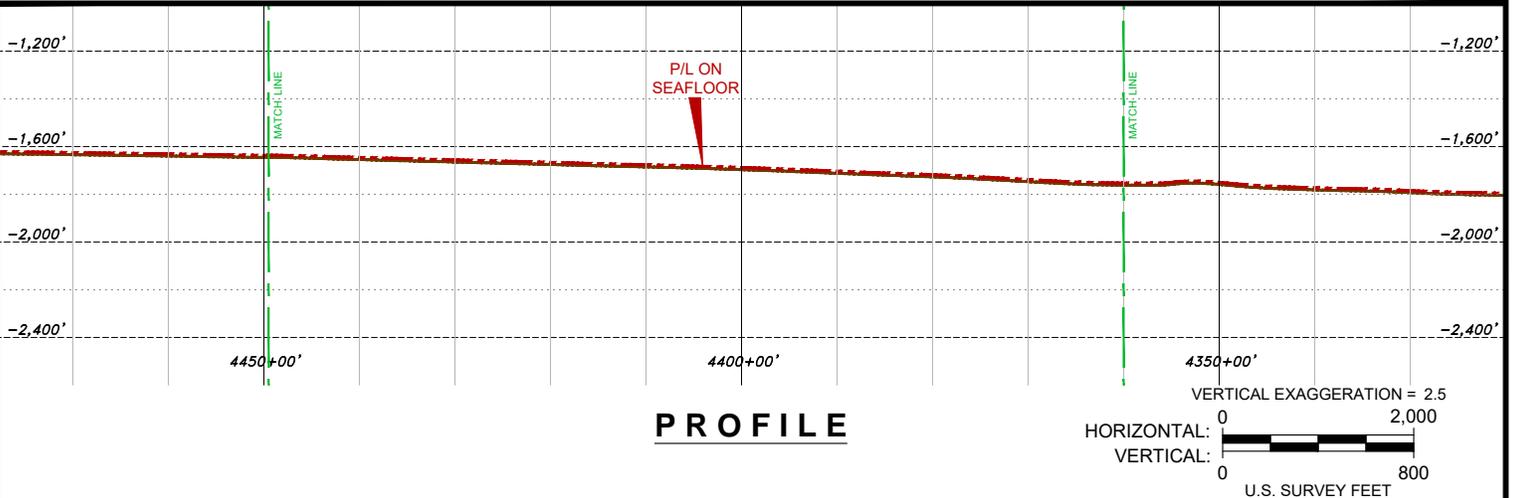


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



VERTICAL EXAGGERATION = 2.5
HORIZONTAL: 0 2,000
VERTICAL: 0 800
U.S. SURVEY FEET

MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819

DRW: J. Guidry

DATE: August 12, 2022

CKD: D. Pierrotte

APP: R. Frost

DOC: 216819-OII-DRW-PRM-001-41

SHEET 41 of 51

REV. 1

GB209

MATCH LINE

4529+94.32'
BLOCKLINE CROSSING

X= 1,860,597.49'
Y= 10,074,240.00'
Lat= 27°45'36.083"N
Lon= 92°19'08.265"W



MILITARY WARNING
AREA W-147AB

N12°52'32"E
40,645.27'

FLOW
S-9344 SHELL 12"
S-11229 SHELL 12"

GB253

GB252

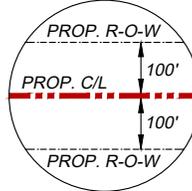
MATCH LINE

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

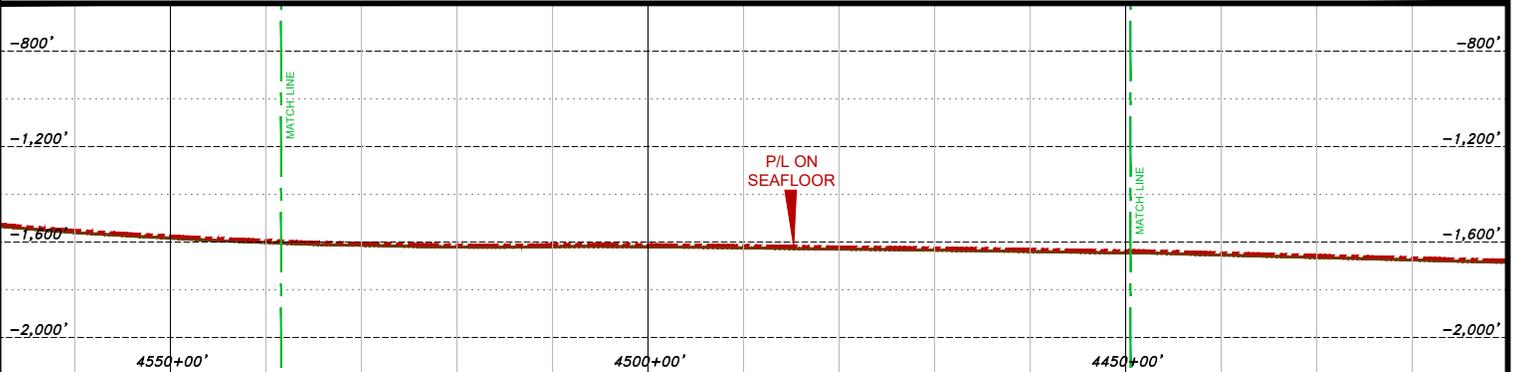


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

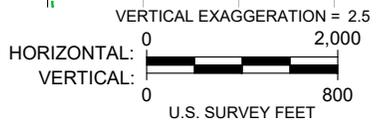
RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



PROFILE



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819

DRW: J. Guidry

DATE: August 12, 2022

CKD: D. Pierrotte

APP: R. Frost

SHEET 42 of 51

REV. 1

DOC: 216819-OII-DRW-PRM-001-42



GB209

CURVE 24 DATA	
PC24	4513+21.61'
X=	1,860,316.36'
Y=	10,072,591.96'
Lat=	27°45'19.773"N
Lon=	92°19'11.497"W
PT24	4673+33.93'
X=	1,855,674.48'
Y=	10,087,131.78'
Lat=	27°47'44.049"N
Lon=	92°20'02.303"W
PI24	
X=	1,862,291.62'
Y=	10,081,233.45'
R=	15,000.00'
T=	8,864.36'
Δ=	61°09'45"
L=	16,012.32'

GB208

MATCH — LINE

FLOW

**MILITARY WARNING
AREA W-147AB**

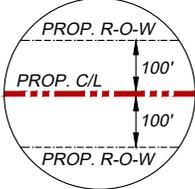
MATCH — LINE

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

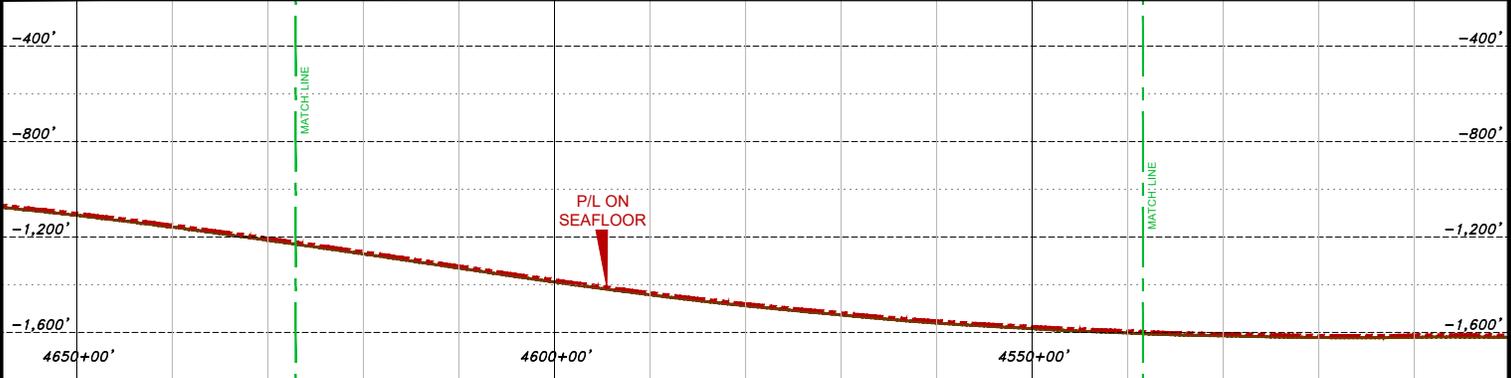


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

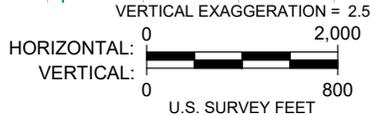
RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
 ELLIPSOID: CLARKE 1866
 GRID UNITS: U.S. SURVEY FEET
 PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
 ZONE: 15N
 ÖÖNÜÖSÄ ÖÜÖÖNÖSÄÖÖNÖSÄ
 FALSE EASTING: 1,640,416.67 FEET at C.M.
 ÖÖSÜÖNÜ ÖÜVPÖÖNÖSÄ ÖÖÖÖVÖÖNÖSÄ



PROFILE



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
 Block 52 Proposed PLET Hub, Walker Ridge Area
 to
 Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
 202 STANTON STREET
 BROUSSARD, LA 70518
 (337) 210-0000
 LA Reg. No. 747

JOB: 216819	DRW: J. Guidry	DATE: August 12, 2022
CKD: D. Pierrotte	APP: R. Frost	SHEET 43 of 51
DOC: 216819-OII-DRW-PRM-001-43		

GB164

GB165

GB209

GB208



4717+64.69'
BLOCKLINE CROSSING
X= 1,852,366.97'
Y= 10,090,080.00'
Lat= 27°48'13.429"N
Lon= 92°20'38.967"W

4705+41.59'
BLOCKLINE CROSSING
X= 1,853,280.00'
Y= 10,089,266.15'
Lat= 27°48'05.319"N
Lon= 92°20'28.845"W

CURVE 24 DATA	
PC24	4513+21.61'
X=	1,860,316.36'
Y=	10,072,591.96'
Lat=	27°45'19.773"N
Lon=	92°19'11.497"W
PT24	4673+33.93'
X=	1,855,674.48'
Y=	10,087,131.78'
Lat=	27°47'44.049"N
Lon=	92°20'02.303"W
PI24	
X=	1,862,291.62'
Y=	10,081,233.45'
R=	15,000.00'
T=	8,864.36'
Δ=	61°09'45"
L=	16,012.32'

4708+27.56'
S-14663 MCMORAN 2" Umb.
X= 1,853,066.53'
Y= 10,089,456.43'
Lat= 27°48'07.216"N
Lon= 92°20'31.212"W

S-14663 MCMORAN 2" Umb.
S-14662 MCMORAN 4"

N48°17'14"W
60,426.89'

4707+61.62'
S-14662 MCMORAN 4"
X= 1,853,115.75'
Y= 10,089,412.56'
Lat= 27°48'06.778"N
Lon= 92°20'30.666"W

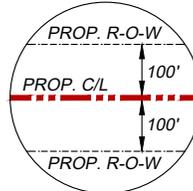
MILITARY WARNING
AREA W-147AB

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

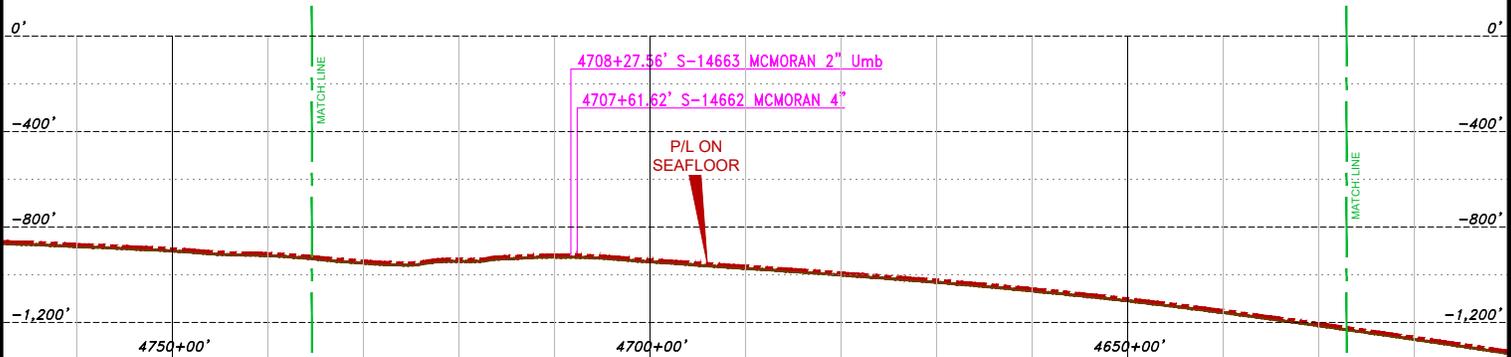


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

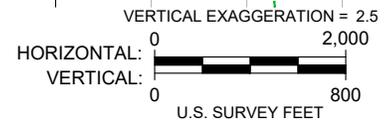
RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 93° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



PROFILE



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
Block 52 Proposed PLET Hub, Walker Ridge Area
to
Block 72 BOR at "A" Platform, Garden Banks Area

PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
202 STANTON STREET
BROUSSARD, LA 70518
(337) 210-0000
LA Reg. No. 747

JOB: 216819

DRW: J. Guidry

DATE: August 12, 2022

CKD: D. Pierrotte

APP: R. Frost

DOC: 216819-OII-DRW-PRM-001-44

SHEET 44 of 51

REV. 1

MATCH LINE

GB164



N48°17'14"W
60,426.89'

FLOW

MILITARY WARNING
AREA W-147AB

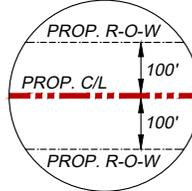
MATCH LINE

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

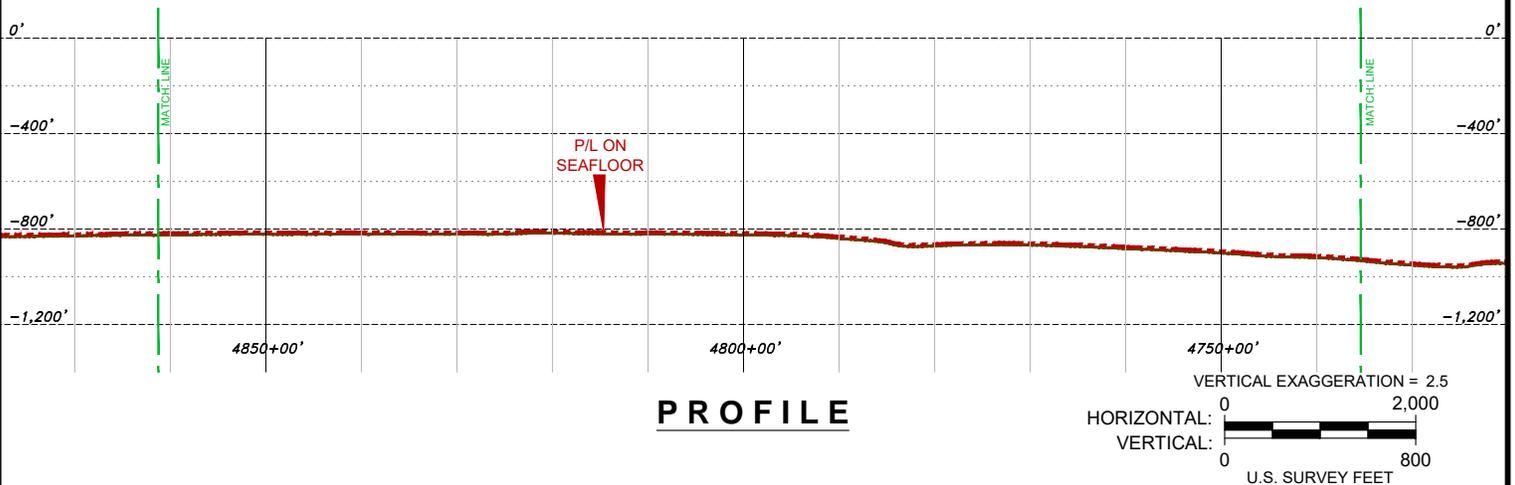


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
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MANTA RAY GATHERING COMPANY, L.L.C.

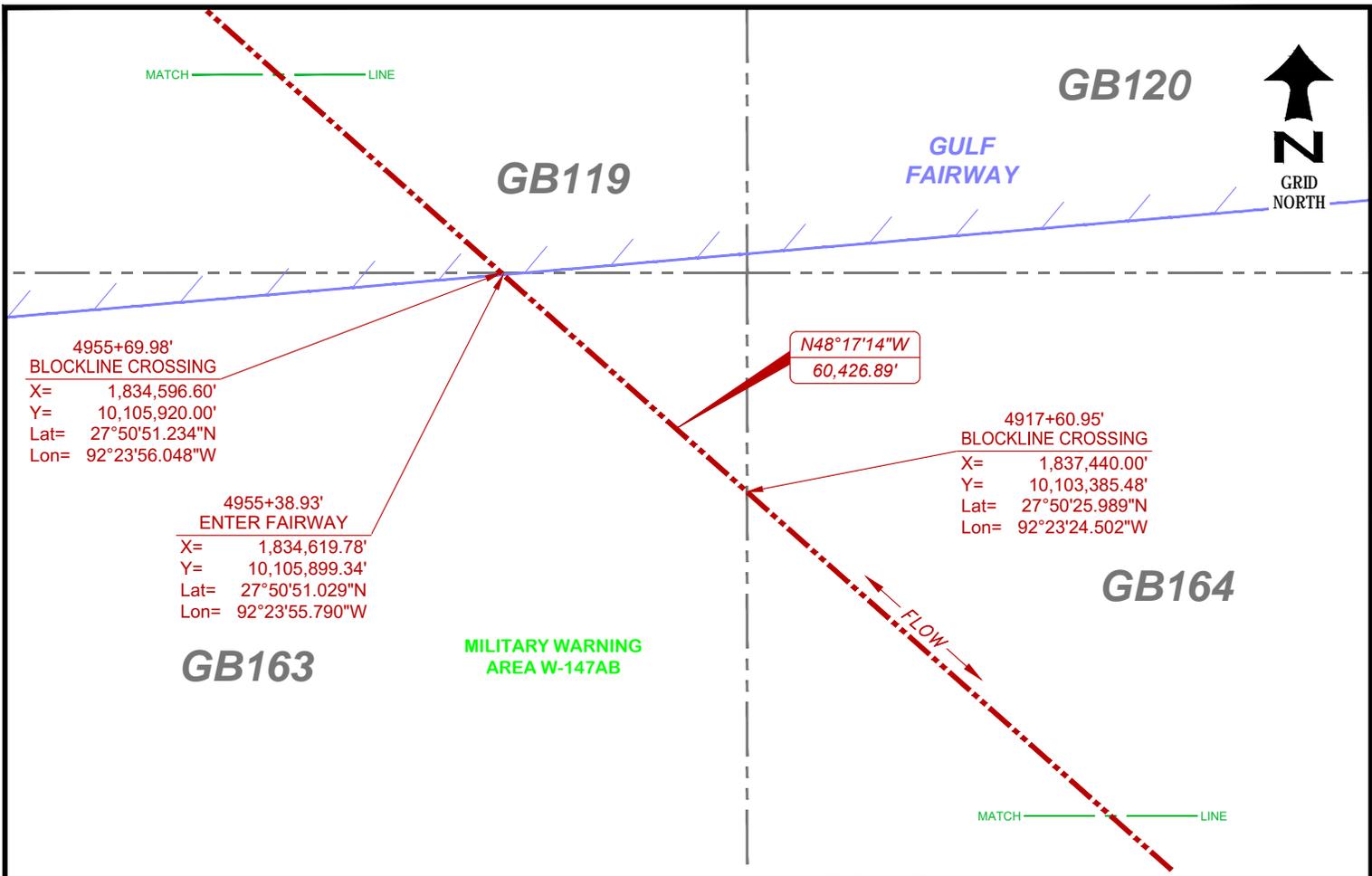
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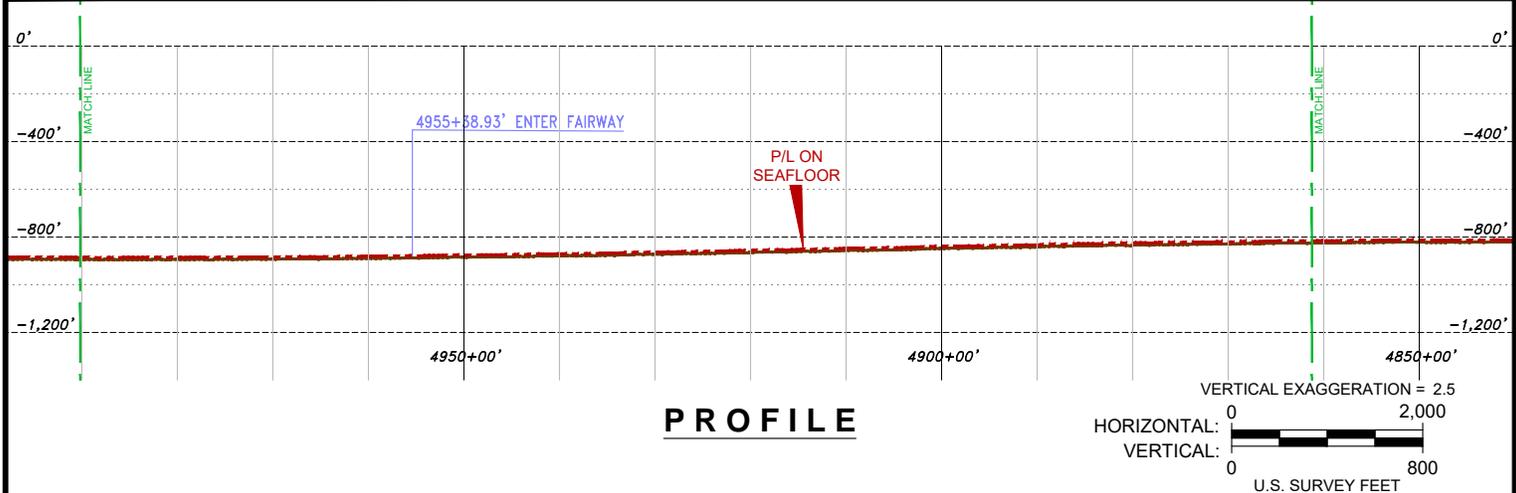
JOB: 216819	DRW: J. Guidry	DATE: August 12, 2022
CKD: D. Pierrotte	APP: R. Frost	SHEET 45 of 51
DOC: 216819-OII-DRW-PRM-001-45		



FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.



NADCON version 2.1 utilized for WGS84-NAD27 conversions.

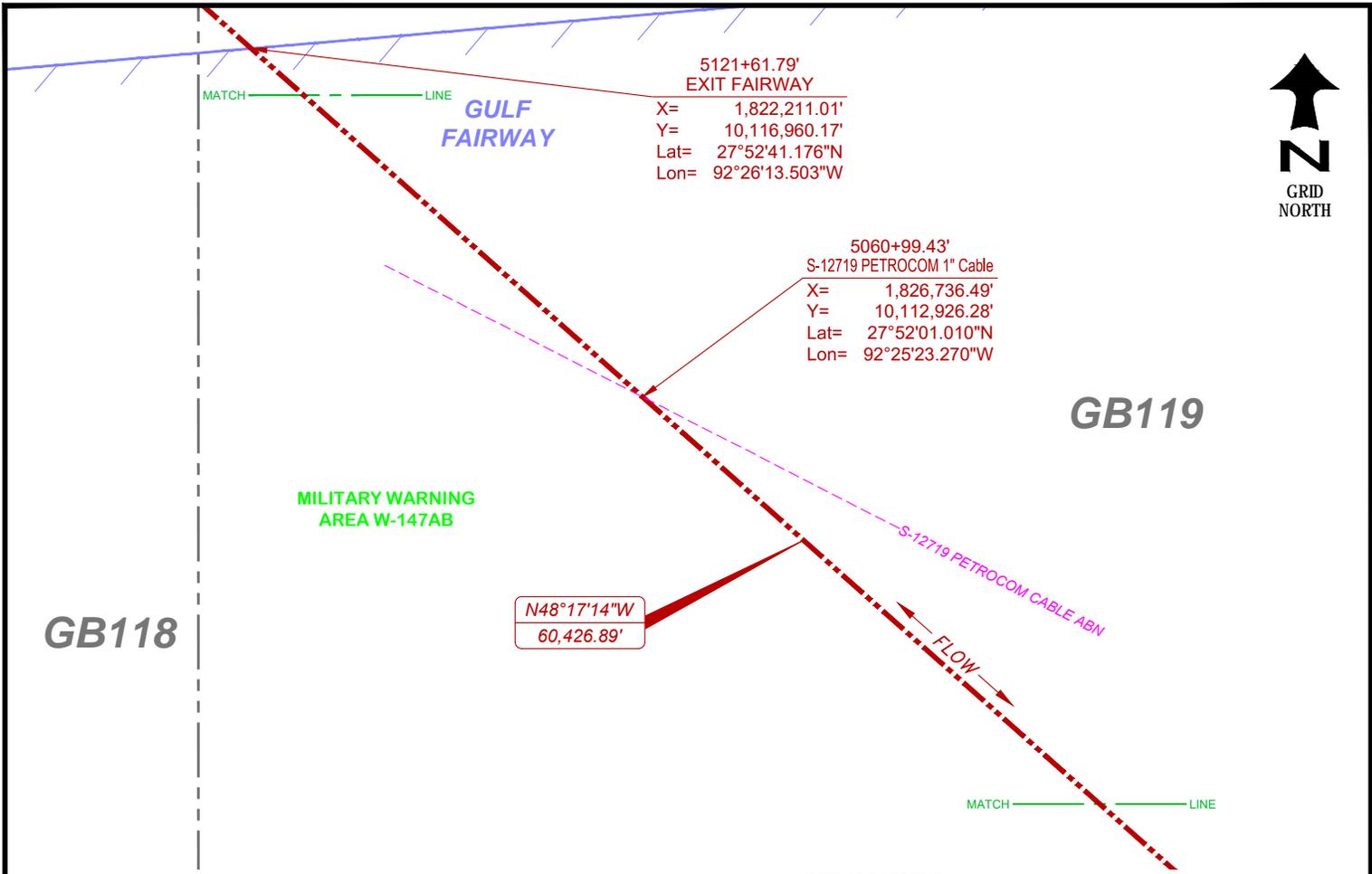


MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
 Block 52 Proposed PLET Hub, Walker Ridge Area
 to
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 202 STANTON STREET
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 (337) 210-0000
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JOB: 216819	DRW: J. Guidry	DATE: August 12, 2022
CKD: D. Pierrotte	APP: R. Frost	SHEET 46 of 51
DOC: 216819-OII-DRW-PRM-001-46		

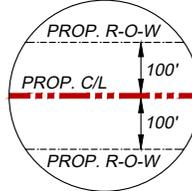


FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

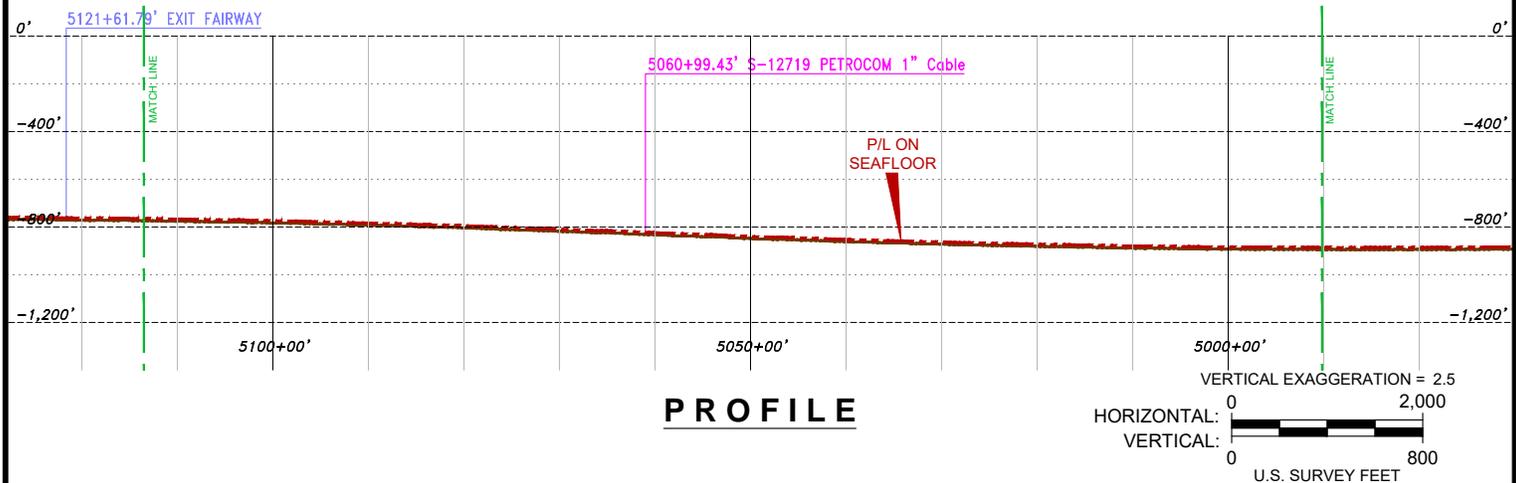


PLAN
 SCALE IN US SURVEY FEET
 NADCON version 2.1 utilized for WGS84-NAD27 conversions.

RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
 ELLIPSOID: CLARKE 1866
 GRID UNITS: U.S. SURVEY FEET
 PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
 ZONE: 15N
 CENTRAL MERIDIAN: 93° 00' W
 FALSE EASTING: 1,640,416.67 FEET at C.M.
 FALSE NORTHING: 0.00 FEET at 00° 00' N



MANTA RAY GATHERING COMPANY, L.L.C.

PROPOSED 20" OIL EXPORT ROUTE
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PREPARED BY:



OCEANEERING INTERNATIONAL, INC.
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 (337) 210-0000
 LA Reg. No. 747

JOB: 216819

DRW: J. Guidry

DATE: August 12, 2022

CKD: D. Pierrotte

APP: R. Frost

DOC: 216819-OII-DRW-PRM-001-47

SHEET 47 of 51

REV. 1



GRID NORTH

GB74

GB75

MILITARY WARNING AREA W-147AB

GB118

GB119

5193+75.27'
BLOCKLINE CROSSING
X= 1,816,826.23'
Y= 10,121,760.00'
Lat= 27°53'28.963"N
Lon= 92°27'13.287"W

N48°17'14"W
60,426.89'

5129+80.30'
BLOCKLINE CROSSING
X= 1,821,600.00'
Y= 10,117,504.80'
Lat= 27°52'46.599"N
Lon= 92°26'20.286"W

5121+61.79'
EXIT FAIRWAY
X= 1,822,211.01'
Y= 10,116,960.17'
Lat= 27°52'41.176"N
Lon= 92°26'13.503"W

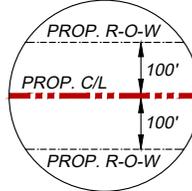
MATCH LINE GULF FAIRWAY

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

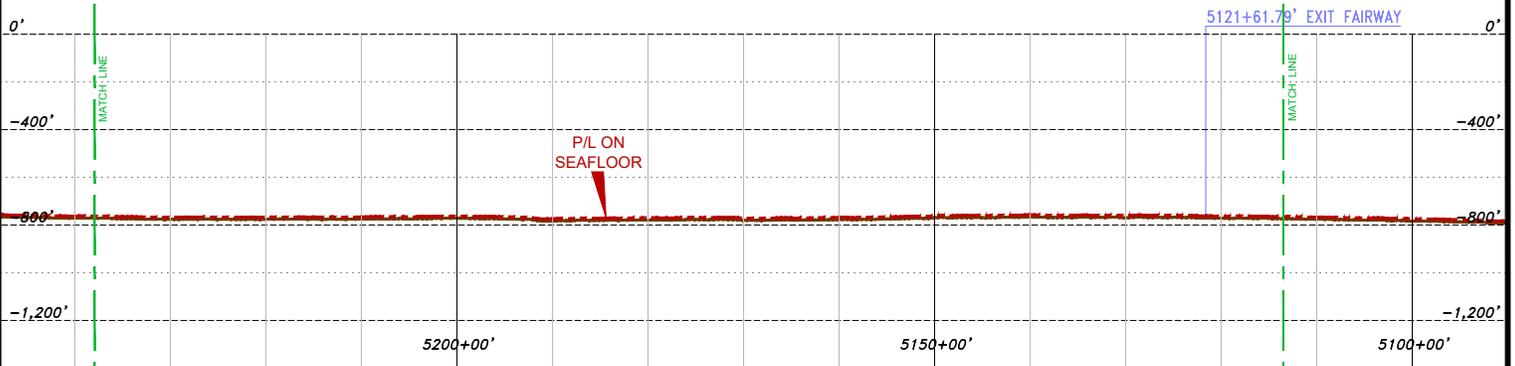


SCALE IN US SURVEY FEET
NADCON version 2.1 utilized for WGS84-NAD27 conversions.

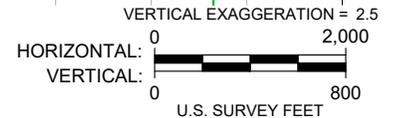
RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
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FALSE EASTING: 1,640,416.67 FEET at C.M.
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PROFILE



MANTA RAY GATHERING COMPANY, L.L.C.

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to
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202 STANTON STREET
BROUSSARD, LA 70518
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JOB: 216819

DRW: J. Guidry

DATE: August 12, 2022

CKD: D. Pierrotte

APP: R. Frost

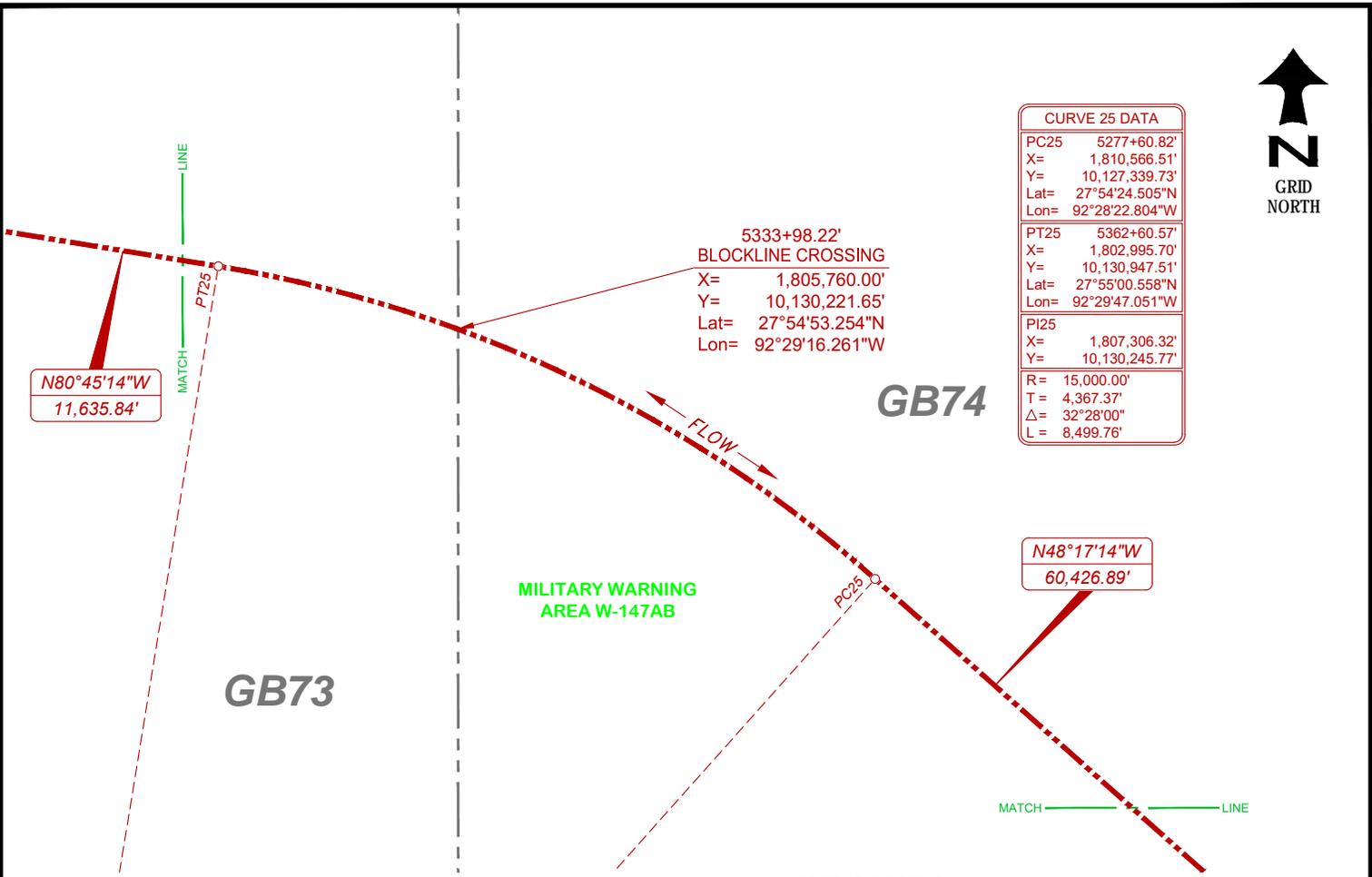
DOC: 216819-OII-DRW-PRM-001-48

SHEET 48 of 51

REV. 1



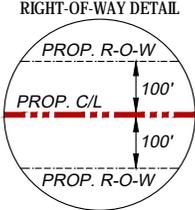
CURVE 25 DATA	
PC25	5277+60.82'
X=	1,810,566.51'
Y=	10,127,339.73'
Lat=	27°54'24.505"N
Lon=	92°28'22.804"W
PT25	5362+60.57'
X=	1,802,995.70'
Y=	10,130,947.51'
Lat=	27°55'00.558"N
Lon=	92°29'47.051"W
PI25	
X=	1,807,306.32'
Y=	10,130,245.77'
R=	15,000.00'
T=	4,367.37'
Δ=	32°28'00"
L=	8,499.76'



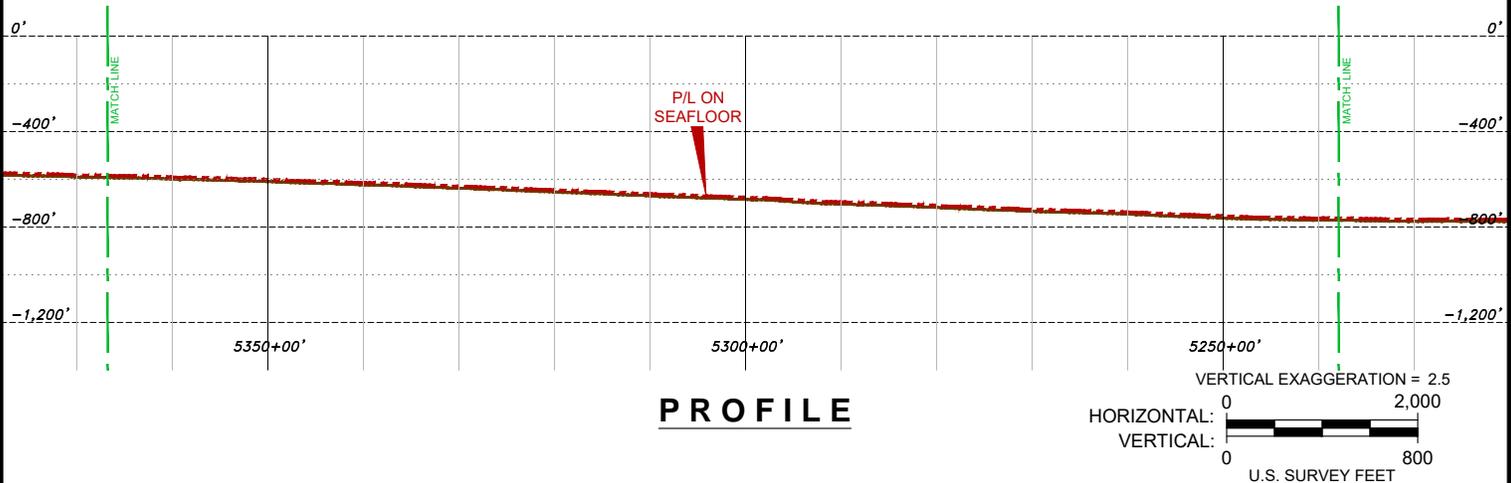
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NADCON version 2.1 utilized for WGS84-NAD27 conversions.



GEODETIC DATUM: NAD27
 ELLIPSOID: CLARKE 1866
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JOB: 216819	DRW: J. Guidry	DATE: August 12, 2022
CKD: D. Pierrotte	APP: R. Frost	SHEET 49 of 51
DOC: 216819-OII-DRW-PRM-001-49		

