

ALASKA LNG PROJECT	DOCKET No. CP17-__-000 DRAFT RESOURCE REPORT No. 1 APPENDIX E – TYPICAL DRAWINGS	DOC No: USAI-PE-SRREG-00- 000001-000 DATE: APRIL 14, 2017 REVISION: 0
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APPENDIX E TYPICAL DRAWINGS

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TYPICAL DRAWING NUMBER	REV.	DRAWING CATEGORY	DRAWING DESCRIPTION
GTP			
E-1	2	GTP Supports	GTP Anchor Supports
E-2	2	GTP Supports	GTP Pipe Supports
E-3	2	GTP Supports	PBTL Anchor Supports
E-4	2	GTP Supports	PBTL Pipe Support
E-5	2	GTP Supports	VSM Embedment
E-6	2	GTP	Putuligayuk River Intake Access
E-7	2	GTP Roads	GTP Water Pipeline Road Crossing
E-8	2	GTP Roads	GTP Mine (Gravel) Haul Road – Cross Section
E-9	2	GTP Roads	GTP Emergency Access & River Access Roads – Cross Section
E-10	2	GTP Roads	GTP Module Haul Road Built on Existing Road – Cross Section
E-11	2	GTP Roads	GTP Module Haul Road (New) – Cross Section
E-12	3	GTP	Ice Road Construction for PBTL & GTP Transfer Lines
E-13	3	GTP	Ice Road Construction for Two GTP Pipelines
E-14	2	GTP	Ice Road Construction for a Single GTP Pipeline
E-15	0	GTP	Dockhead 4 Layout
E-16	0	GTP	Causeway Expansion
E-17	0	GTP	Barge Bridge Layout
E-18	0	GTP	GTP Mine Site Layout
E-19	0	GTP	GTP Reservoir Layout
MARINE TERMINAL			
E-20	3	Marine	Product Loading Facility General Arrangement
E-21	2	Marine Berth	Berth 1 & 2 Arrangements
E-22	3	Marine Trestle	Trestle Foundation Plan and Profile 1 of 2
E-23	3	Marine Trestle	Trestle Foundation Plan and Profile 2 of 2
E-24	3	Marine Trestle	Trestle Foundation Plan Type 1
E-25	3	Marine Trestle	Trestle Foundation Plan Type 2
E-26	3	Marine Trestle	Trestle Foundation Plan Type 3
E-27	3	Marine MOF	Material Offloading Facility General Arrangement
E-28	2	Marine Dredging	MOF Dredging Plan View
E-29	1	Marine Dredging	MOF Dredging Section View
E-30	1	Marine	Typical Derrick and Pipelay Barge
LNG PLANT			
E-31	1	LNG	LNG Tank
PIPELINES			
E-32	2	TRENCH MODE	TRENCH DETAIL
E-33			NOT USED
E-34			NOT USED
E-35	3	RIGHT-OF-WAY MODES	ROW MODE #1 – ICE WORK PAD ROW NORTH SLOPE (WINTER)

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TYPICAL DRAWING NUMBER	REV.	DRAWING CATEGORY	DRAWING DESCRIPTION
E-36	3	RIGHT-OF-WAY MODES	ROW MODE #2 - WINTER FROST PACKED
E-37	3	RIGHT-OF-WAY MODES	ROW MODE #3 - MATTED SUMMER WETLANDS
E-38	3	RIGHT-OF-WAY MODES	ROW MODE #4 - GRANULAR WORK PAD OVER THAW SENSITIVE PERMAFROST (WINTER & SUMMER)
E-39	3	RIGHT-OF-WAY MODES	ROW MODE #5A - GRADED CROSS SLOPES (WINTER OR SUMMER)
E-40	3	RIGHT-OF-WAY MODES	ROW MODE #5B - MOUNTAIN GRADED CUT (SUMMER)
E-41	2	RIGHT-OF-WAY MODES	ROW MODE #6 - PTTL ABOVE GROUND PIPELINE ON VSMs
E-42	0	RIGHT-OF-WAY MODES	ADDITIONAL TEMPORARY WORKSPACE 1/3
E-43	0	RIGHT-OF-WAY MODES	ADDITIONAL TEMPORARY WORKSPACE 2/3
E-44	0	RIGHT-OF-WAY MODES	ADDITIONAL TEMPORARY WORKSPACE 3/3
E-45	2	BUOYANCY CONTROL	CONCRETE COATING, ONSHORE
E-46	2	BUOYANCY CONTROL	SADDLE BAGS
E-47	2	BUOYANCY CONTROL	BOLT-ON RIVER WEIGHTS
E-48	2	BUOYANCY CONTROL	SCREW ANCHORS
E-49	1	CORROSION CONTROL	COATINGS
E-50	1	CATHODIC PROTECTION	DEEP VERTICAL ANODE BED
E-51	2	CATHODIC PROTECTION	HORIZONTAL ANODE BED
E-52	1	ACCESS ROADS	PERMANENT ROAD SECTIONS
E-53	1	ACCESS ROADS	TEMPORARY ROAD SECTIONS
E-54	1	ACCESS ROADS	TEMPORARY SNOW/ICE ROAD SECTIONS
E-55	1	ACCESS ROADS	TEMPORARY SHOEFLY ROAD
E-56	2	ACCESS ROADS	RAMP OFF EXISTING ROAD
E-57	2	CONSTRUCTION TYPICALS	HORIZONTAL BORING/DRILLING ROADS
E-58	2	CONSTRUCTION TYPICALS	OPEN-CUT ROADS
E-59	1	EQUIPMENT CROSSINGS	TEMPORARY BRIDGE
E-60	2	CONSTRUCTION TYPICALS	EQUIPMENT CROSSING - FORD
E-61	2	CONSTRUCTION TYPICALS	EQUIPMENT CROSSING - MAT BRIDGE
E-62	2	CONSTRUCTION TYPICALS	EQUIPMENT CROSSING - MAT ROCK/CULVERT BRIDGE
E-63	2	CONSTRUCTION TYPICALS	EQUIPMENT CROSSING -TYPICAL ROCK/CULVERT BRIDGE
E-64	2	CONSTRUCTION TYPICALS	EQUIPMENT CROSSING - ICE BRIDGE
E-65	2	CONSTRUCTION TYPICALS	EQUIPMENT CROSSING – CLEAN SNOW FILL WITH ICE COVER
E-66	3	CONSTRUCTION TYPICALS	EQUIPMENT CROSSING – LOG FILL
E-67	2	120 BED PIONEER CAMPS (SKID MOUNTED)	4.3 ACRES
E-68	1	240 PERSON CAMP	8 ACRES
E-69	0	300 PERSON CAMP	7.4 ACRES
E-70	0	400 PERSON CAMP	8.7 ACRES
E-71	0	600 PERSON CAMP	14 ACRES
E-72	0	700 PERSON CAMP	14 ACRES

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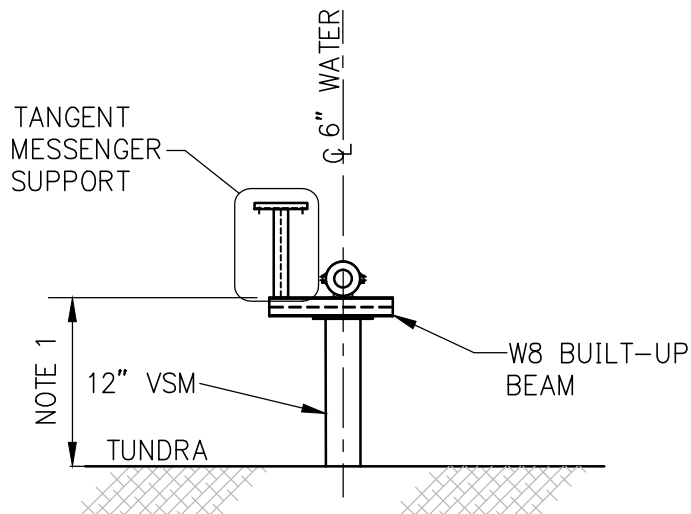
TYPICAL DRAWING NUMBER	REV.	DRAWING CATEGORY	DRAWING DESCRIPTION
E-73	1	120 MAN CAMP & CONTRACTOR YARD	OPTION 1
E-73A	0	120 MAN CAMP & CONTRACTOR YARD	OPTION 1 ELEVATION
E-74	1	240 MAN CAMP & CONTRACTOR YARD	OPTION 2
E-74A	0	240 MAN CAMP & CONTRACTOR YARD	OPTION 2 ELEVATION
E-75	1	360 MAN CAMP & CONTRACTOR YARD	OPTION 3
E-75A	0	360 MAN CAMP & CONTRACTOR YARD	OPTION 3 ELEVATION
E-76	1	480 MAN CAMP & CONTRACTOR YARD	OPTION 4
E-76A	0	480 MAN CAMP & CONTRACTOR YARD	OPTION 4 ELEVATION
E-77	1	600 MAN CAMP & CONTRACTOR YARD	OPTION 5
E-77A	0	600 MAN CAMP & CONTRACTOR YARD	OPTION 5 ELEVATION
E-78	1	660 MAN CAMP & CONTRACTOR YARD	OPTION 6
E-78A	0	660 MAN CAMP & CONTRACTOR YARD	OPTION 6 ELEVATION
E-79	1	600 MAN CAMP & CONTRACTOR YARD	OPTION 7
E-79A	0	600 MAN CAMP & CONTRACTOR YARD	OPTION 7 ELEVATION
E-80	1	960 MAN CAMP & CONTRACTOR YARD	OPTION 8
E-80A	0	960 MAN CAMP & CONTRACTOR YARD	OPTION 8 ELEVATION
E-81	1	960 MAN CAMP & CONTRACTOR YARD W/ FUEL DEPOT	OPTION 9
E-81A	0	960 MAN CAMP & CONTRACTOR YARD W/ FUEL DEPOT	OPTION 9 ELEVATION
E-82	1	1080 MAN CAMP & CONTRACTOR YARD	OPTION 10
E-82A	0	1080 MAN CAMP & CONTRACTOR YARD	OPTION 10 ELEVATION
E-83	1	1080 MAN CAMP & CONTRACTOR YARD	OPTION 11
E-83A	0	1080 MAN CAMP & CONTRACTOR YARD	OPTION 11 ELEVATION
E-84	1	400 MAN CAMP & CONTRACTOR YARD	OPTION 12
E-84A	0	400 MAN CAMP & CONTRACTOR YARD	OPTION 12 ELEVATION

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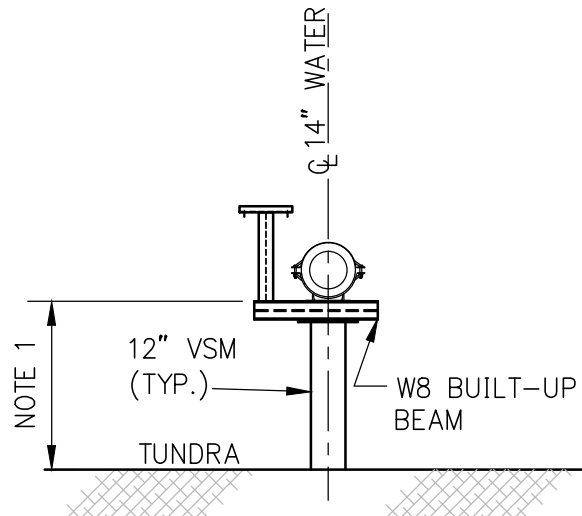
TYPICAL DRAWING NUMBER	REV.	DRAWING CATEGORY	DRAWING DESCRIPTION
E-85	1	960 MAN CAMP & CONTRACTOR YARD	OPTION 13
E-85A	0	960 MAN CAMP & CONTRACTOR YARD	OPTION 13 ELEVATION
E-86	1	940 MAN CAMP & CONTRACTOR YARD	OPTION 14
E-86A	0	940 MAN CAMP & CONTRACTOR YARD	OPTION 14 ELEVATION
E-87	1	SMALL STANDALONE PIPE STORAGE YARD	6.4 ACRES
E-87A	0	SMALL STANDALONE PIPE STORAGE YARD	6.4 ACRES ELEVATION
E-88	2	MEDIUM STANDALONE PIPE STORAGE YARD	9.2 ACRES
E-88A	0	MEDIUM STANDALONE PIPE STORAGE YARD	9.2 ACRES ELEVATION
E-89	2	LARGE STANDALONE PIPE STORAGE YARD	11 ACRES
E-89A	0	LARGE STANDALONE PIPE STORAGE YARD	11 ACRES ELEVATION
E-90	2	VERY LARGE STANDALONE PIPE STORAGE YARD	15.6 ACRES
E-90A	0	VERY LARGE STANDALONE PIPE STORAGE YARD	15.6 ACRES ELEVATION
E-91	2	STANDALONE CONTRACTOR YARD	8 ACRES
E-91A	0	STANDALONE CONTRACTOR YARD	8 ACRES ELEVATION
E-92	1	CONSTRUCTION TYPICALS	WATER DISCHARGE SITE
E-93	2	CONSTRUCTION TYPICALS	HYDROSTATIC TEST POINT
E-94	2	CONCEPTUAL “ZEE” FAULT CROSSING DESIGN	STRIKE-SLIP FAULTS
E-95	2	CONCEPTUAL “U” FAULT CROSSING DESIGN	STRIKE-SLIP FAULTS
E-96	2	CONCEPTUAL “ZEE” FAULT CROSSING DESIGN	REVERSE OR THRUST FAULTS
E-97	2	FOREIGN PIPELINE AND UTILITY CROSSINGS	FOREIGN PIPELINES
E-98	2	RAILROAD CROSSINGS	RAILROAD CROSSINGS
E-99	2	ROAD CROSSINGS	ROAD CROSSINGS
E-100	1	PTTL – ROAD CROSSING	ROAD CROSSING
E-101	2	FOREIGN PIPELINE AND UTILITY CROSSINGS	BURIED UTILITY
E-102	2	PIPELINE FACILITIES	MAINLINE BLOCK VALVE PLOT PLAN
E-102A	0	PIPELINE FACILITIES	MAINLINE BLOCK VALVE ELEVATION
E-103	2	PIPELINE FACILITIES	TEE AND VALVE GAS DELIVERY POINT PLOT PLAN
E-103A	0	PIPELINE FACILITIES	TEE AND VALVE GAS DELIVERY POINT ELEVATION

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E-104	1	PIPELINE FACILITIES	MLBV AT COMPRESSOR STATIONS
E-104A	0	PIPELINE FACILITIES	MLBV AT COMPRESSOR STATIONS ELEVATION
E-105	1	FRACTURE ARREST DEVICE	FRACTURE CONTROL METHOD
E-106	1	CONSTRUCTION TYPICALS	HELIPADS
E-107	1	TYPICAL HELIPORT	APPROACH/DEPARTURE MODES – CLEARING AREA
E-108	1	PTTL: SUPPORT TYPICALS	ANCHORS, OFFSETS AND GUIDED/SLIDING SUPPORTS
E-109	1	PTTL: SUPPORT TYPICALS	SUPPORT
E-110	1	PTTL: SUPPORT TYPICALS	SHARED HSM/VSM FOR PTTL AND PTU WEST GATHERING LINE
E-111	2	WATERBODY CROSSINGS	OPEN CUT
E-112	1	WATERBODY CROSSINGS	MAJOR/INTERMEDIATE - HDD
E-113	2	WATERBODY CROSSINGS	MAJOR/INTERMEDIATE – OPEN CUT
E-114	2	WATERBODY CROSSINGS	MINOR – OPEN CUT
E-115	2	WATERBODY CROSSINGS	ISOLATED OPEN-CUT – DAM AND PUMP
E-116	2	WATERBODY CROSSINGS	ISOLATED OPEN-CUT – DAM AND FLUME
E-117	1	WATERBODY CROSSINGS	ISOLATED OPEN-CUT – DAM AND DIVERT
E-118	1	WATERBODY CROSSINGS	HORIZONTAL DIRECTIONAL DRILL
E-119	0	TAPS ABOVE GROUND CROSSING	PLAN
E-119A	0	TAPS ABOVE GROUND CROSSING	ELEVATION
E-120	0	TAPS BELOW GROUND CROSSING AT ATIGUN PASS	PLAN
E-120A	0	TAPS BELOW GROUND CROSSING AT ATIGUN PASS	ELEVATION
E-121	0	NENANA RIVER CROSSING AT MOODY, ALTERNATIVE 6 UPSTREAM 3	SPAN STEEL BRIDGE
E-122	0	CROSS SECTION	MATERIAL SITE ABOVE WATER TABLE
E-123	0	CROSS SECTION	MATERIAL SITE BELOW WATER TABLE



GTP ANCHOR SUPPORT 1



GTP ANCHOR SUPPORT 2

PRELIMINARY &
SUBJECT TO CHANGE.
ALL DRAWINGS AND
DIMENSIONS TYPICAL.



NOTES:

1. MATCH EXISTING T.O.S. WHEN PARALLELING EXISTING PIPELINES OTHERWISE 7'-0" MIN. TO T.O.S. FOR CROSS COUNTRY PIPELINES.
2. LOOP SIZES & ANALYSIS IS REQUIRED IN FEED TO CONFIRM STRESS/SIZE.

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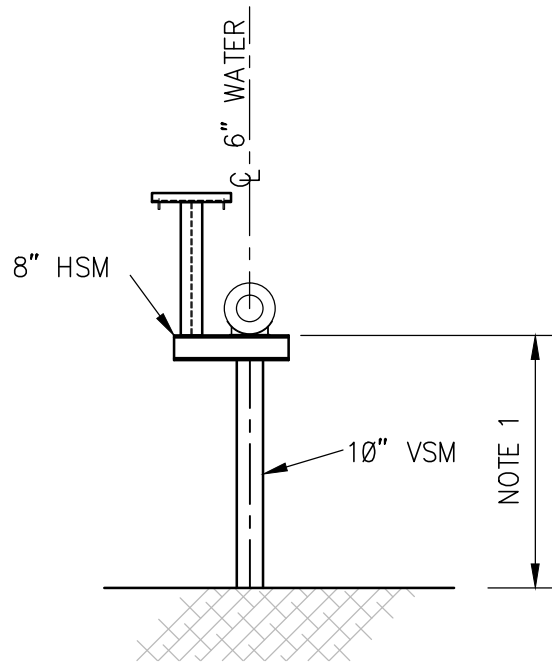
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GTP ANCHOR SUPPORTS

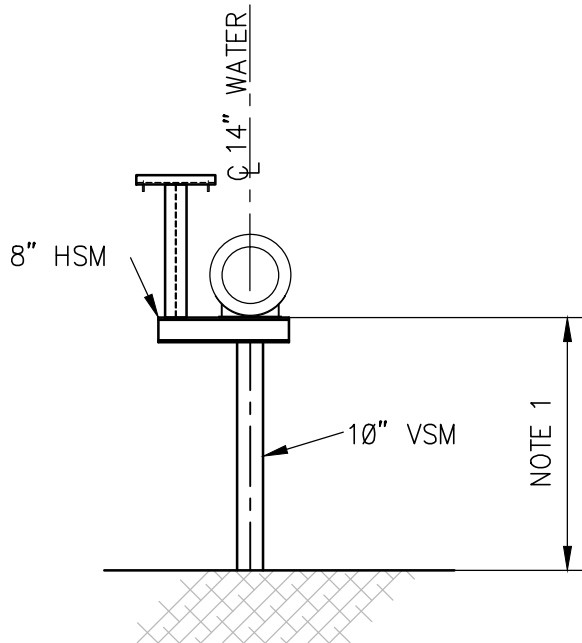
TYPICAL

FIGURE E-1

ALASKA LNG



GTP PIPE SUPPORT 1



GTP PIPE SUPPORT 2

PRELIMINARY &
SUBJECT TO CHANGE.
ALL DRAWINGS AND
DIMENSIONS TYPICAL.



NOTES:

1. MATCH EXISTING T.O.S. WHEN PARALLELING EXISTING PIPELINES OTHERWISE 7'-0" MIN. TO T.O.S. FOR CROSS COUNTRY PIPELINES.
2. LOOP SIZES & ANALYSIS IS REQUIRED IN FEED TO CONFIRM STRESS/SIZE.

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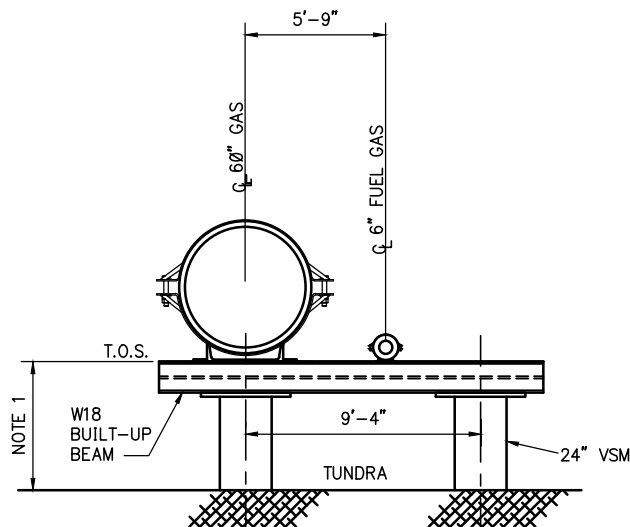
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GTP PIPE SUPPORTS

TYPICAL

FIGURE E-2

ALASKA LNG



PBTL ANCHOR SUPPORT

PRELIMINARY &
SUBJECT TO CHANGE.
ALL DRAWINGS AND
DIMENSIONS TYPICAL.



NOTES:

1. MATCH EXISTING T.O.S. WHEN PARALLELING EXISTING PIPELINES OTHERWISE 7'-0" MIN. TO T.O.S. FOR CROSS COUNTRY PIPELINES.
2. LOOP SIZES & ANALYSIS IS REQUIRED IN FEED TO CONFIRM STRESS/SIZE.
3. NO ANCHOR REQUIRED FOR 2" GAS LINE.

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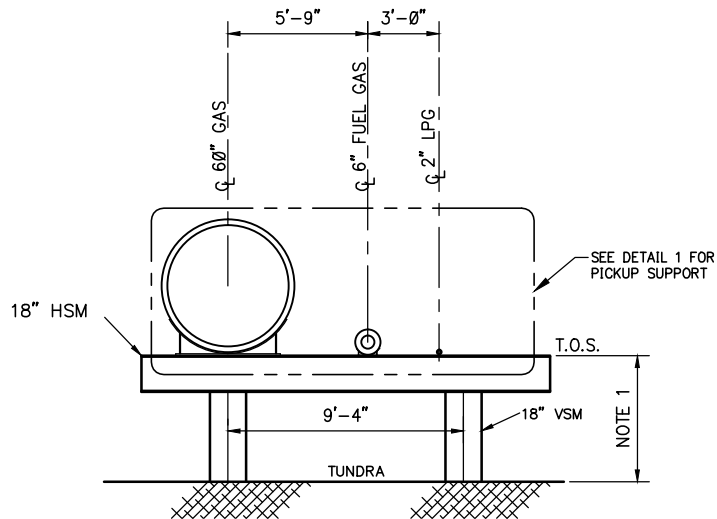
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PBTL ANCHOR SUPPORTS

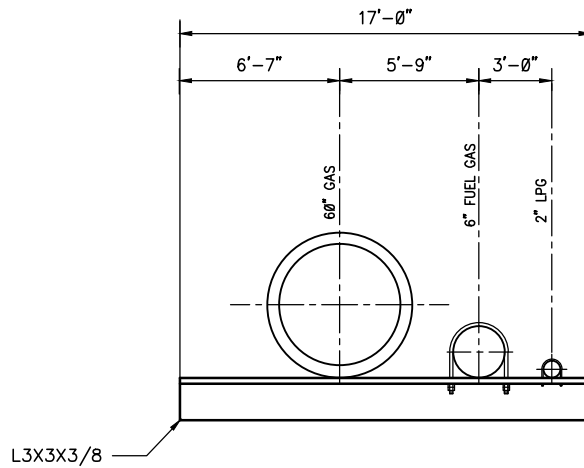
TYPICAL

FIGURE E-3

ALASKA LNG



PBTL PIPE SUPPORT



DETAIL 1 - INTERMEDIATE PICKUP SUPPORT

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ALL DRAWINGS AND
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NOTES:

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2. LOOP SIZES & ANALYSIS IS REQUIRED IN FEED TO CONFIRM STRESS/SIZE.

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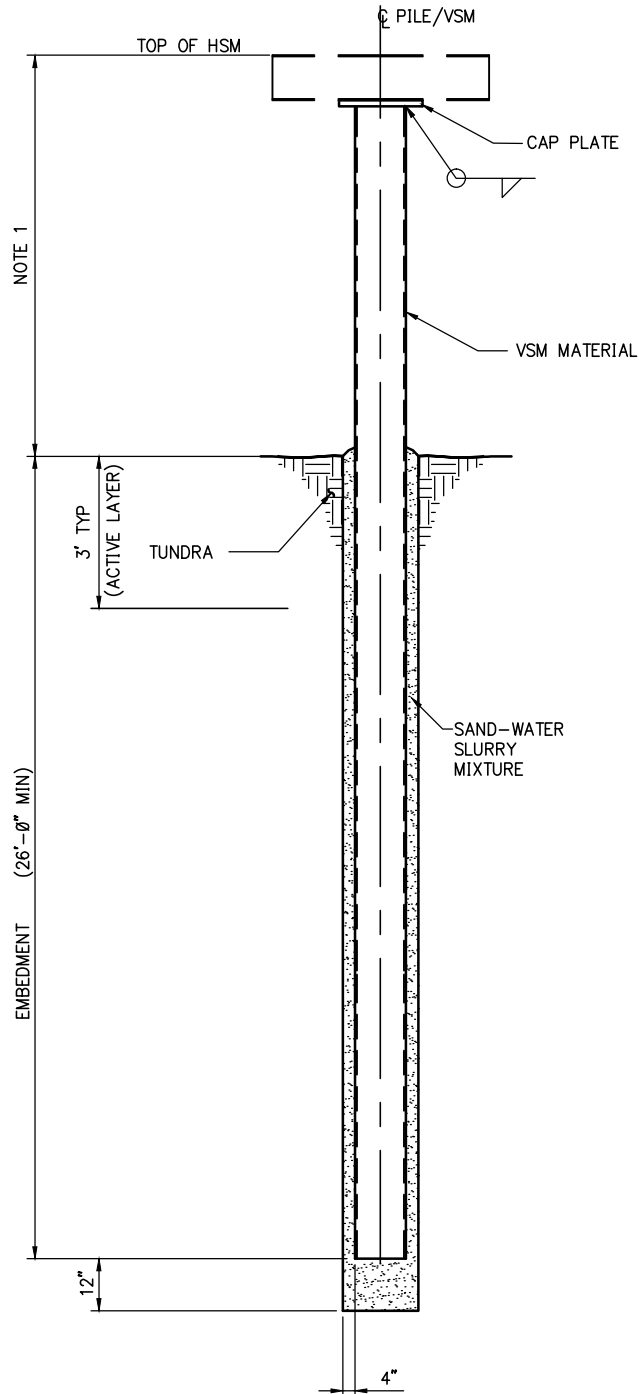
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PBTL PIPE SUPPORT

TYPICAL

FIGURE E-4

ALASKA LNG



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ALL DRAWINGS AND
DIMENSIONS TYPICAL.



- NOTES:
1. MATCH EXISTING T.O.S. WHEN PARALLELING EXISTING PIPELINES OTHERWISE 7'-0" MIN. TO T.O.S. FOR CROSS COUNTRY PIPELINES.

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VSM EMBEDMENT
DETAIL

TYPICAL

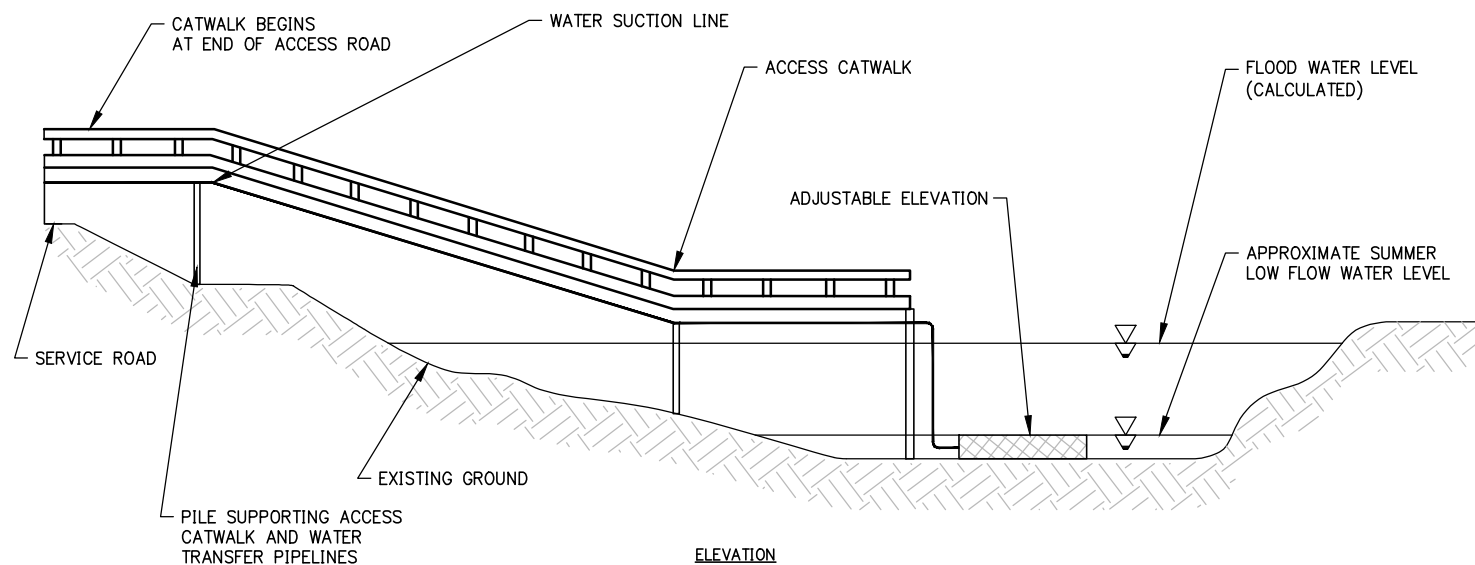
FIGURE E-5

ALASKA LNG

PRELIMINARY
PUTULIGAYUK RIVER
INTAKE ACCESS DETAIL

TYPICAL FIGURE E-6

ALASKA LNG



ELEVATION
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VICINITY MAP



NOTES:

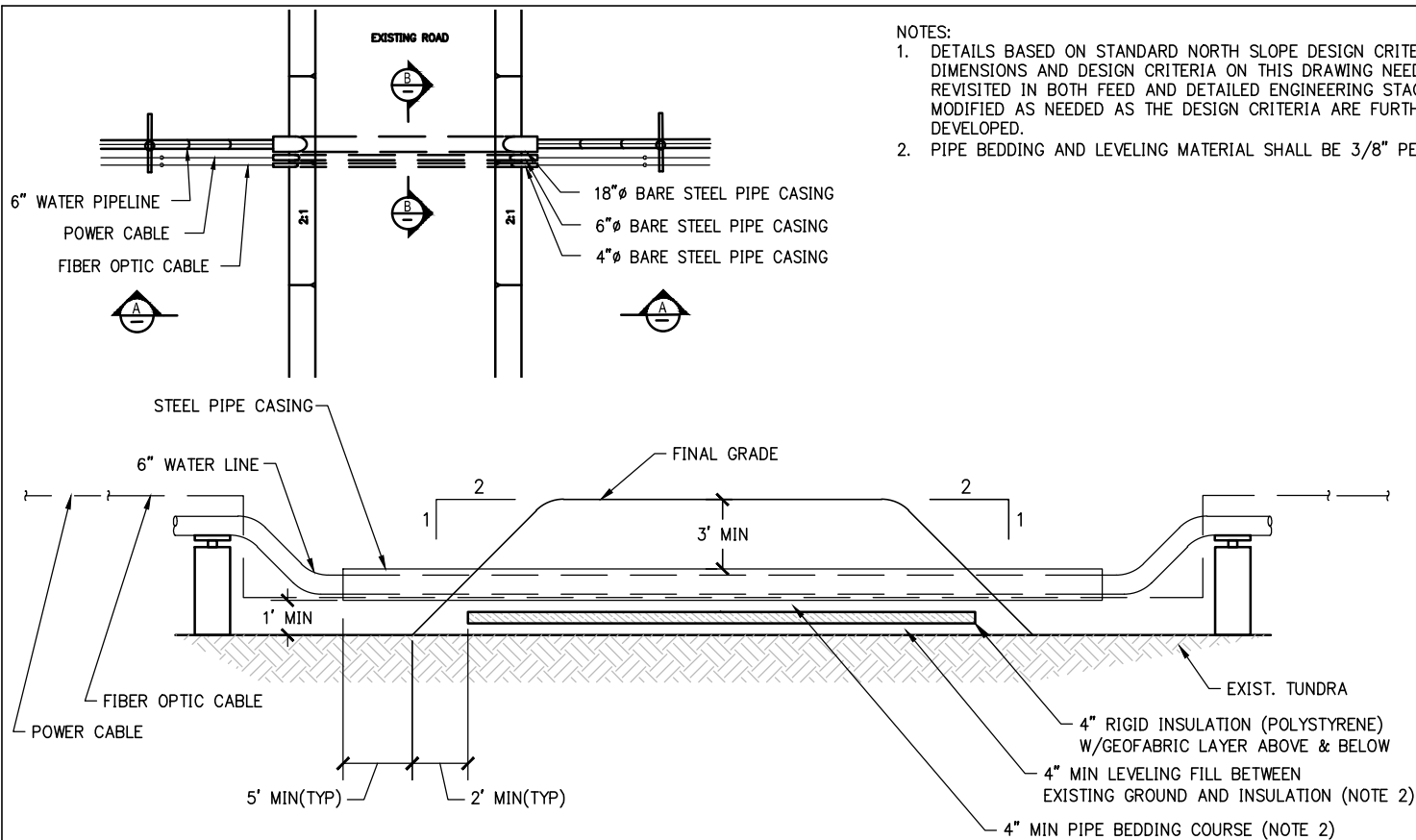
1. DETAILS BASED ON STANDARD NORTH SLOPE DESIGN CRITERIA. ALL DESIGN CRITERIA ON THIS DRAWING NEED TO BE REVISITED IN BOTH FEED AND DETAILED ENGINEERING STAGES, AND MODIFIED AS NEEDED AS THE DESIGN CRITERIA ARE FURTHER DEVELOPED.

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DIMENSIONS TYPICAL.

GTP WATER PIPELINE ROAD CROSSING

TYPICAL FIGURE E-7

ALASKA LNG



NOTES:

1. DETAILS BASED ON STANDARD NORTH SLOPE DESIGN CRITERIA. ALL DIMENSIONS AND DESIGN CRITERIA ON THIS DRAWING NEED TO BE REVISITED IN BOTH FEED AND DETAILED ENGINEERING STAGES, AND MODIFIED AS NEEDED AS THE DESIGN CRITERIA ARE FURTHER DEVELOPED.
2. PIPE BEDDING AND LEVELING MATERIAL SHALL BE 3/8" PEA GRAVEL.

DISCLAIMER:

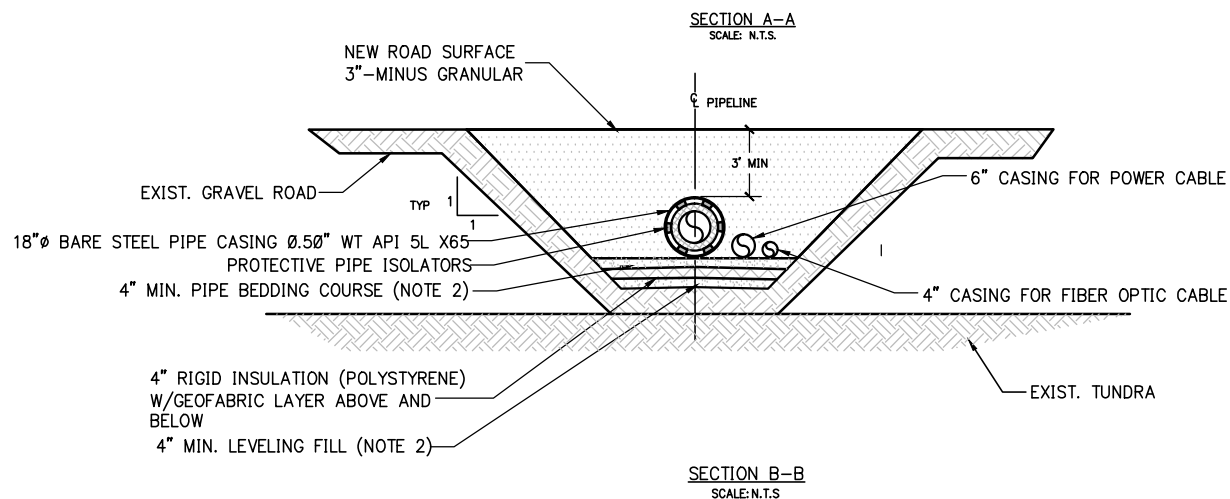
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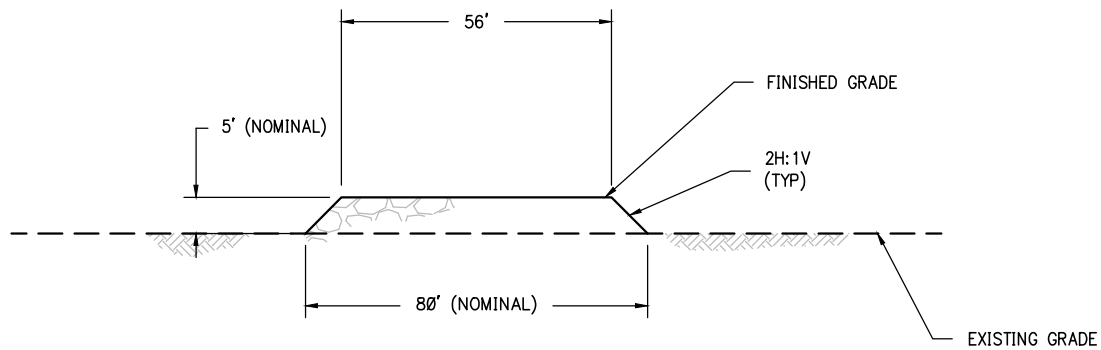
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VICINITY MAP



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ALL DRAWINGS AND
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NOTES:

1. 5 FOOT GRAVEL THICKNESS IS NOMINAL. GRAVEL THICKNESS WILL VARY BASED ON TOPOGRAPHY AND WILL BE SUFFICIENT TO STABILIZE THE FOOTPRINT OF THE ROAD.

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DIMENSIONS TYPICAL.



LEGEND

FINAL GRADE	—————
EXISTING GRADE	—————
GRAVEL FILL	
EXISTING TUNDRA/FILL	

DISCLAIMER:

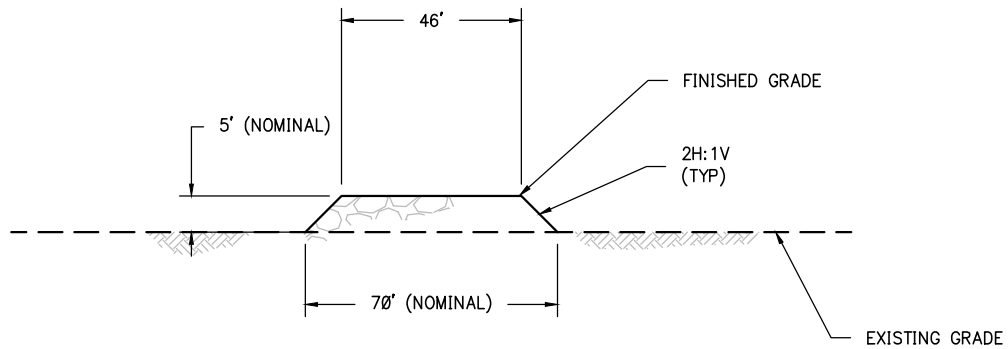
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SCALE:	N.T.S.
DATE:	2017-04-14
SHEET:	1 OF 1

GTP MINE (GRAVEL) HAUL ROAD - CROSS SECTION

TYPICAL FIGURE E-8

ALASKA LNG



NOTES:

1. 5 FOOT GRAVEL THICKNESS IS NOMINAL. GRAVEL THICKNESS WILL VARY BASED ON TOPOGRAPHY AND WILL BE SUFFICIENT TO STABILIZE THE FOOTPRINT OF THE ROAD.

PRELIMINARY &
SUBJECT TO CHANGE.
ALL DRAWINGS AND
DIMENSIONS TYPICAL.



LEGEND

FINAL GRADE	—————
EXISTING GRADE	—————
GRAVEL FILL	
EXISTING TUNDRA/FILL	

DISCLAIMER:

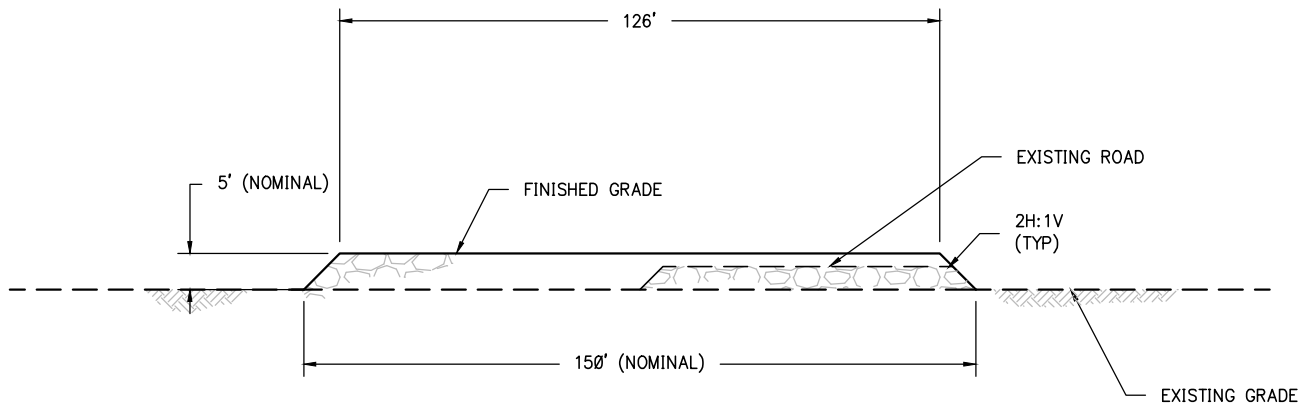
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**GTP EMERGENCY
ACCESS & RIVER ACCESS
ROADS - CROSS SECTION**

TYPICAL FIGURE E-9

ALASKA LNG



NOTES:

1. 5 FOOT GRAVEL THICKNESS IS NOMINAL. GRAVEL THICKNESS WILL VARY BASED ON TOPOGRAPHY AND WILL BE SUFFICIENT TO STABILIZE THE FOOTPRINT OF THE ROAD.

PRELIMINARY &
SUBJECT TO CHANGE.
ALL DRAWINGS AND
DIMENSIONS TYPICAL.



LEGEND

FINAL GRADE	—————
EXISTING GRADE	—————
GRAVEL FILL	
EXISTING TUNDRA/FILL	

DISCLAIMER:

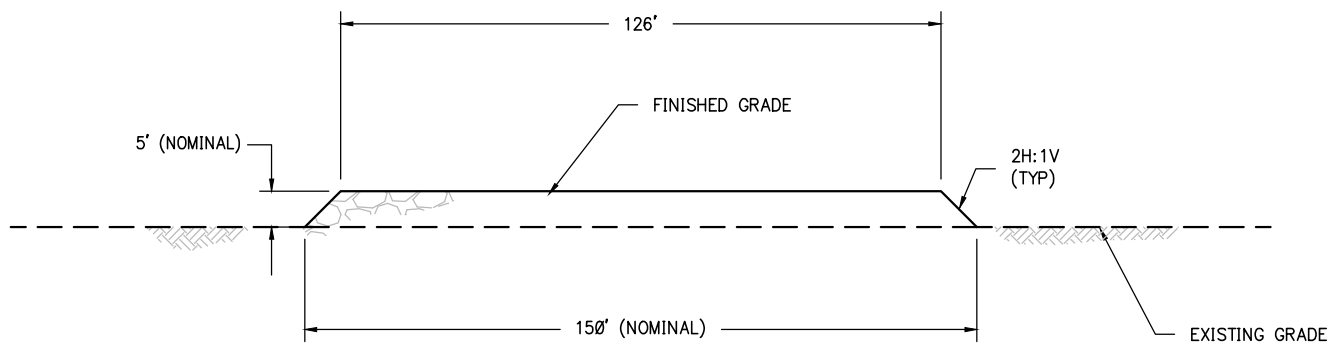
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GTP MODULE HAUL ROAD BUILT ON EXISTING ROAD - CROSS SECTION

TYPICAL FIGURE E-10

ALASKA LNG



NOTES:

1. 5 FOOT GRAVEL THICKNESS IS NOMINAL. GRAVEL THICKNESS WILL VARY BASED ON TOPOGRAPHY AND WILL BE SUFFICIENT TO STABILIZE THE FOOTPRINT OF THE ROAD.

PRELIMINARY &
SUBJECT TO CHANGE.
ALL DRAWINGS AND
DIMENSIONS TYPICAL.



LEGEND

FINAL GRADE	---
EXISTING GRADE	---
GRAVEL FILL	
EXISTING TUNDRA/FILL	

DISCLAIMER:

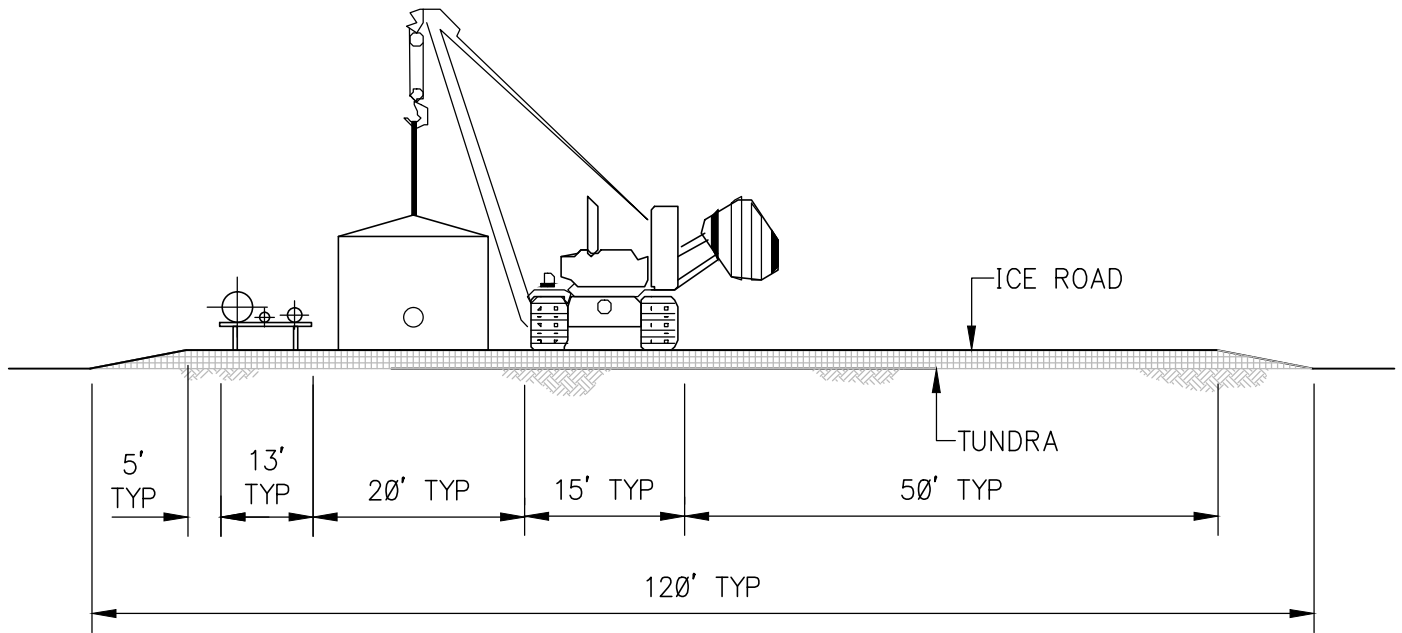
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GTP MODULE HAUL ROAD (NEW) - CROSS SECTION

TYPICAL FIGURE E-11

ALASKA LNG



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ALL DRAWINGS AND
DIMENSIONS TYPICAL.



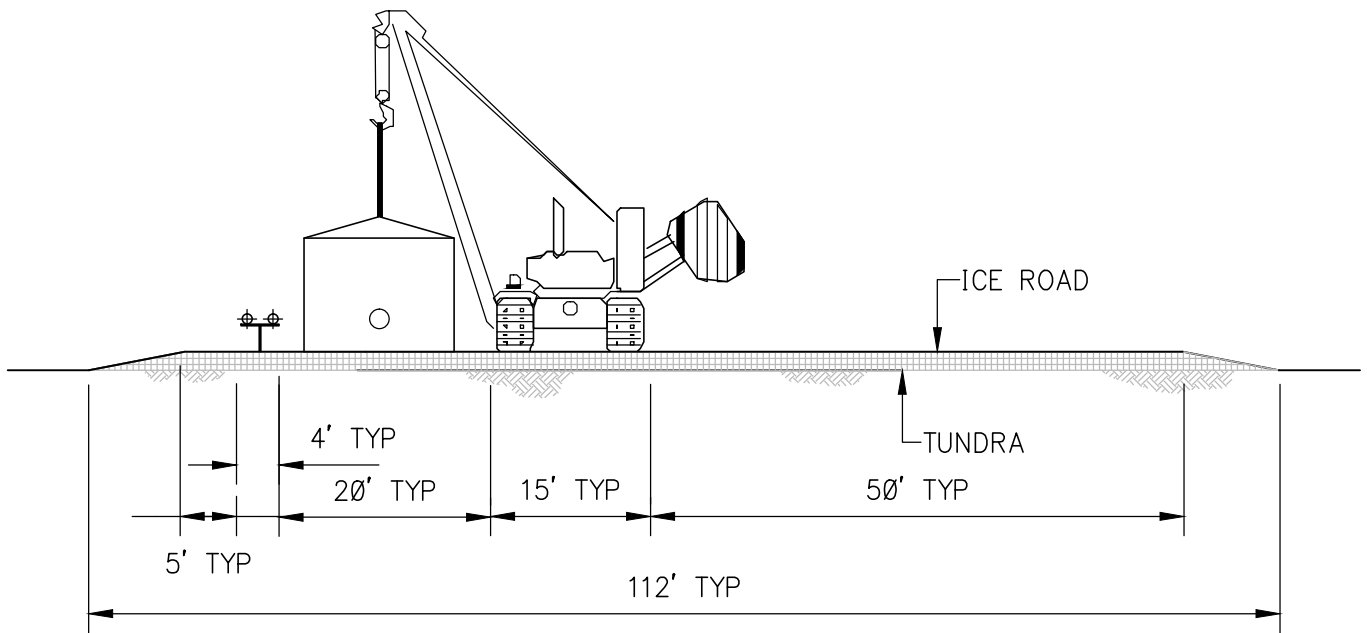
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ICE ROAD CONSTRUCTION
FOR PBTL & GTP
TRANSFER LINES

TYPICAL FIGURE E-12

ALASKA LNG



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ALL DRAWINGS AND
DIMENSIONS TYPICAL.



LEGEND

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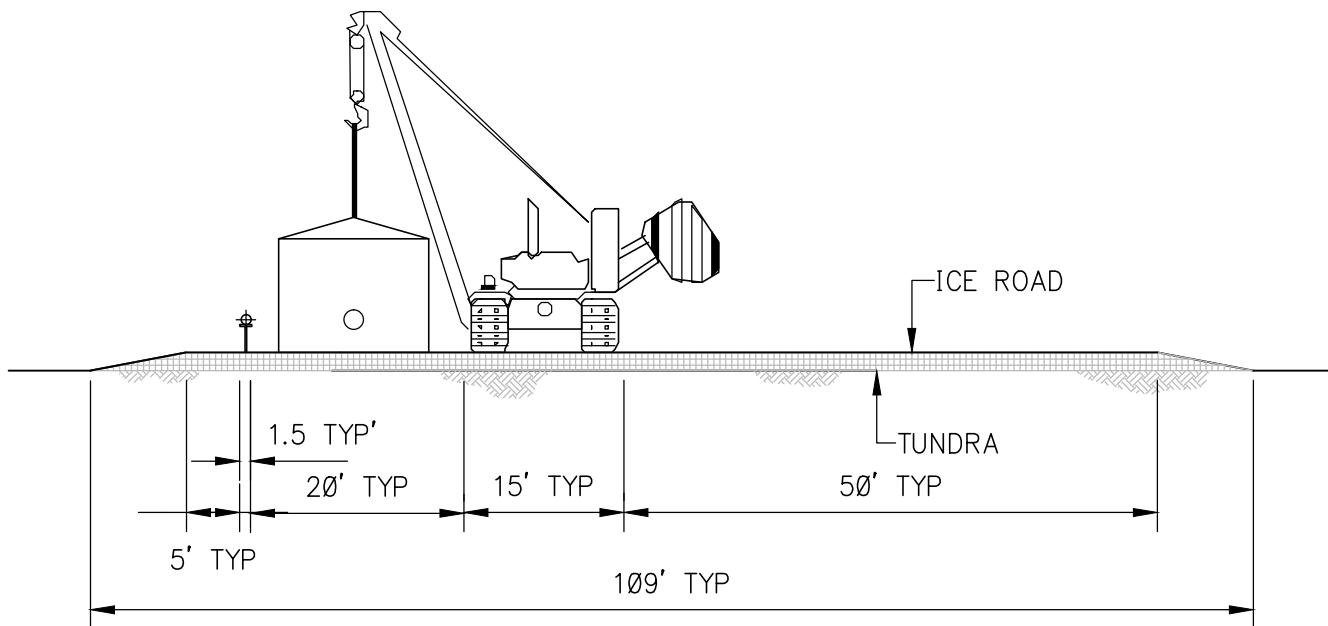
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ICE ROAD CONSTRUCTION FOR TWO GTP PIPELINES

TYPICAL

FIGURE E-13

ALASKA LNG



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ALL DRAWINGS AND
DIMENSIONS TYPICAL.



LEGEND

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ICE ROAD CONSTRUCTION FOR A SINGLE GTP PIPELINE

TYPICAL

FIGURE E-14

ALASKA LNG

DOCKHEAD 4 LAYOUT

TYPICAL FIGURE E-15

ALASKA LNG

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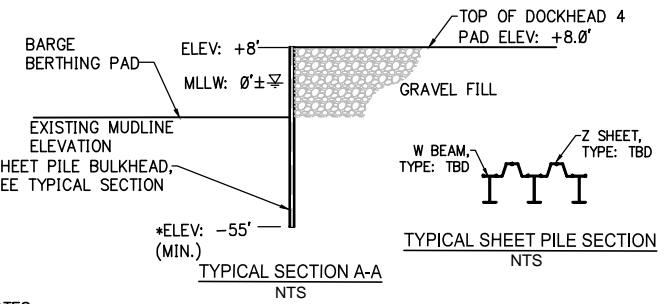
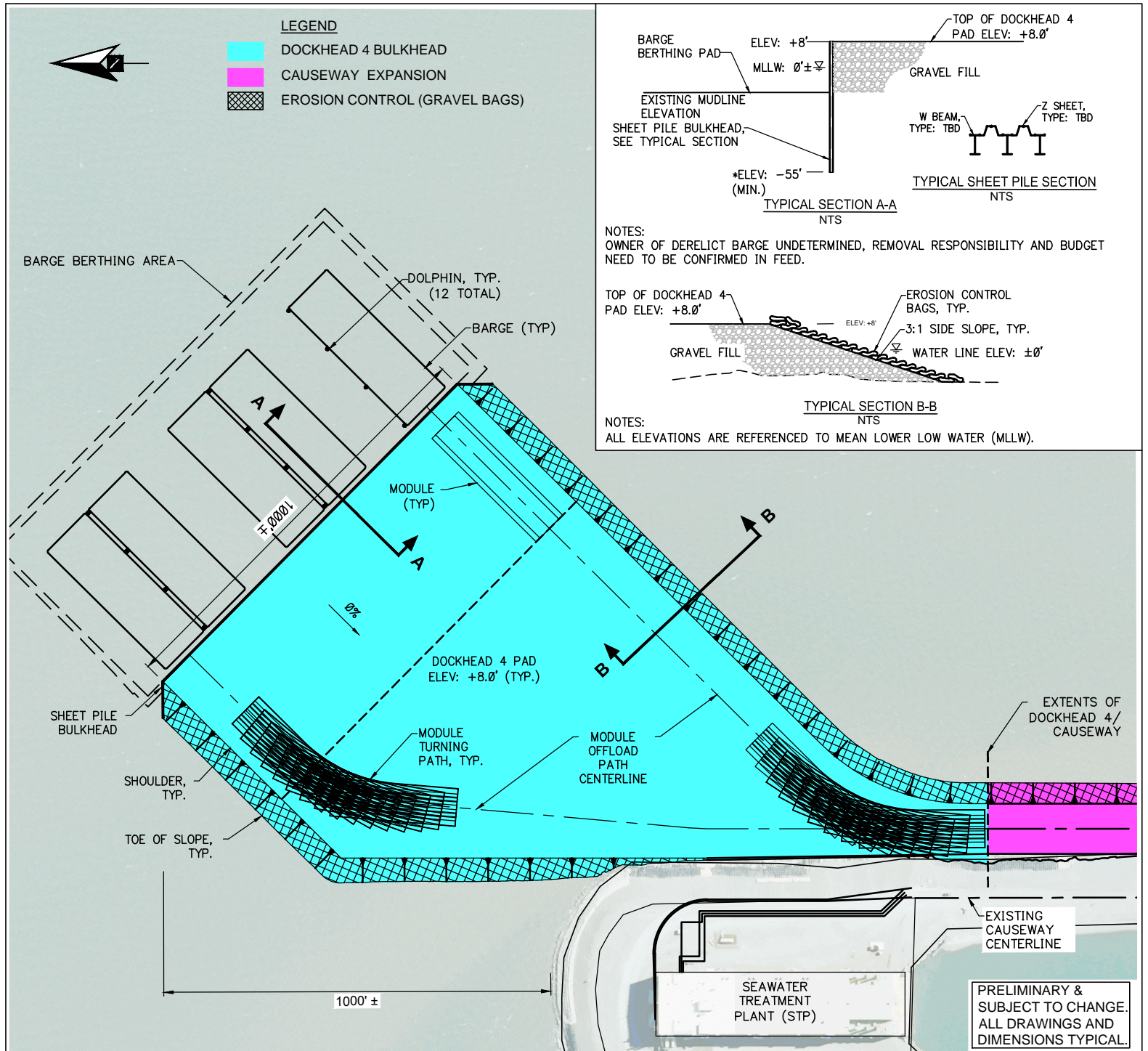
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VICINITY MAP

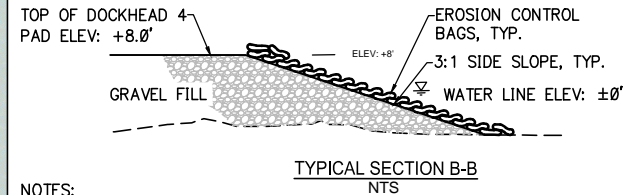


LEGEND

- DOCKHEAD 4 BULKHEAD
- CAUSEWAY EXPANSION
- EROSION CONTROL (GRAVEL BAGS)



NOTES:
OWNER OF DERELICT BARGE UNDETERMINED, REMOVAL RESPONSIBILITY AND BUDGET NEED TO BE CONFIRMED IN FEED.



NOTES:
ALL ELEVATIONS ARE REFERENCED TO MEAN LOWER LOW WATER (MLLW).

CAUSEWAY EXPANSION

TYPICAL

FIGURE E-16

ALASKA LNG

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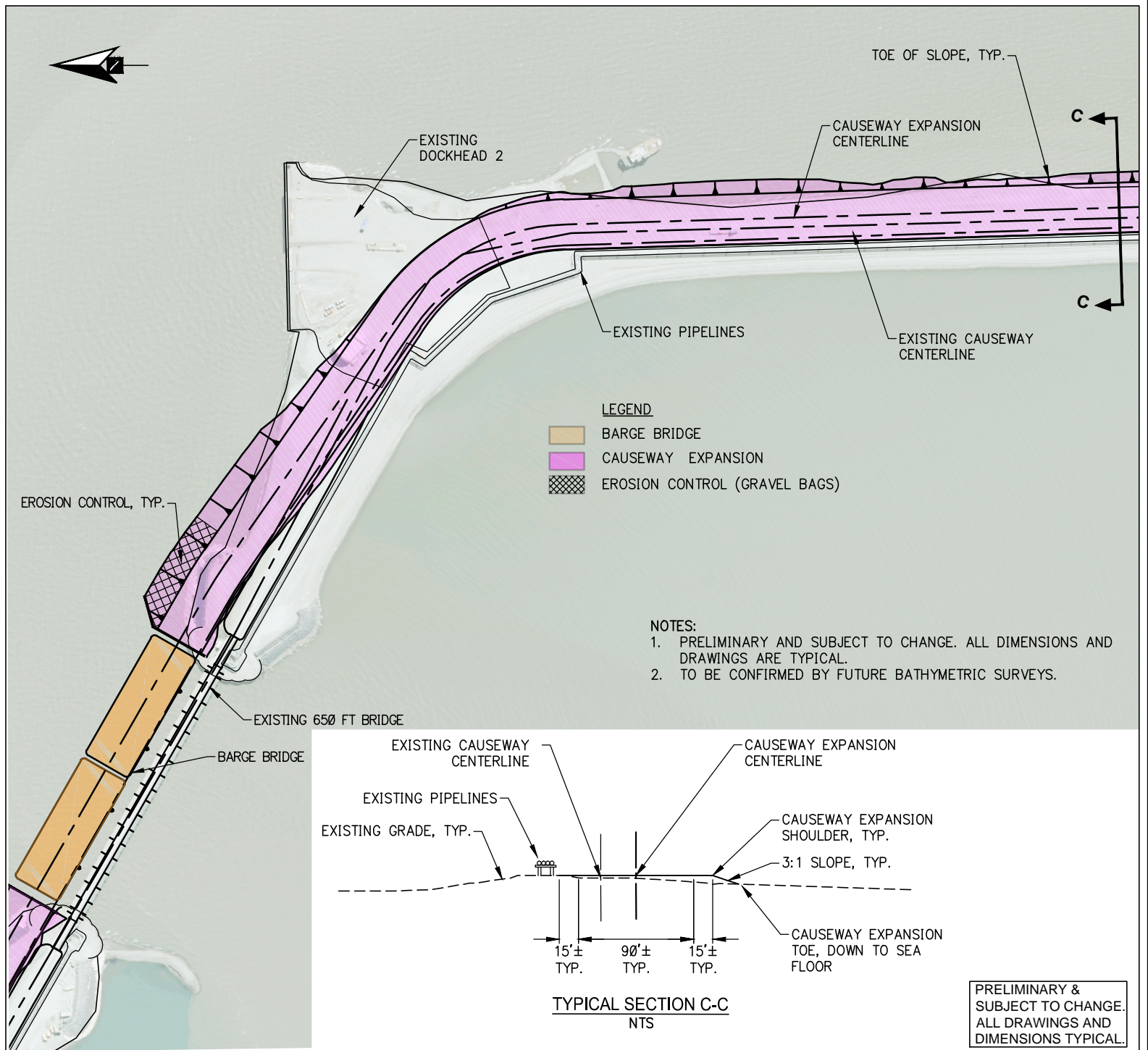
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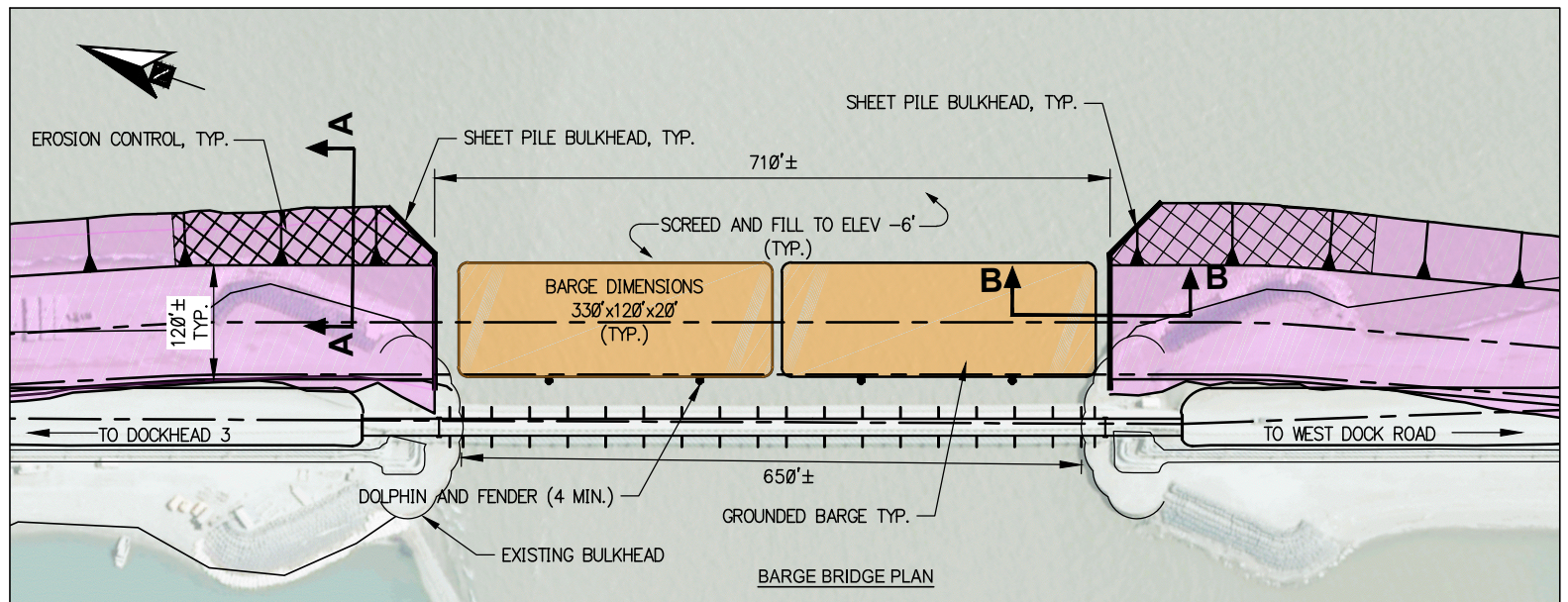
VICINITY MAP



BARGE BRIDGE LAYOUT

TYPICAL
ALASKA LNG

FIGURE E-17



LEGEND

- BARGE BRIDGE
- CAUSEWAY EXPANSION
- EROSION CONTROL (GRAVEL BAGS)



TYPICAL SHEET PILE SECTION
NTS

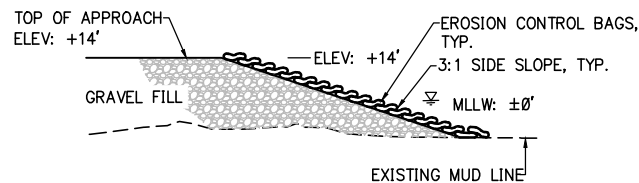
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- TO BE CONFIRMED BY FUTURE BATHYMETRIC SURVEYS.

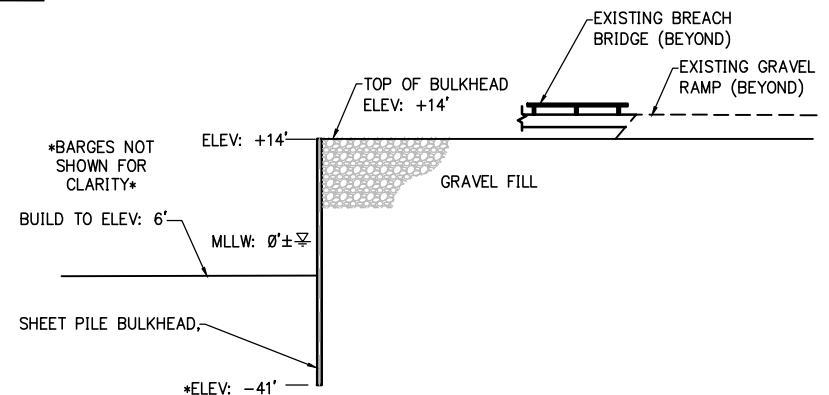
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TYPICAL SECTION A-A
NTS



TYPICAL SECTION B-B
NTS

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GAS TREATMENT PLANT MINE SITE LAYOUT

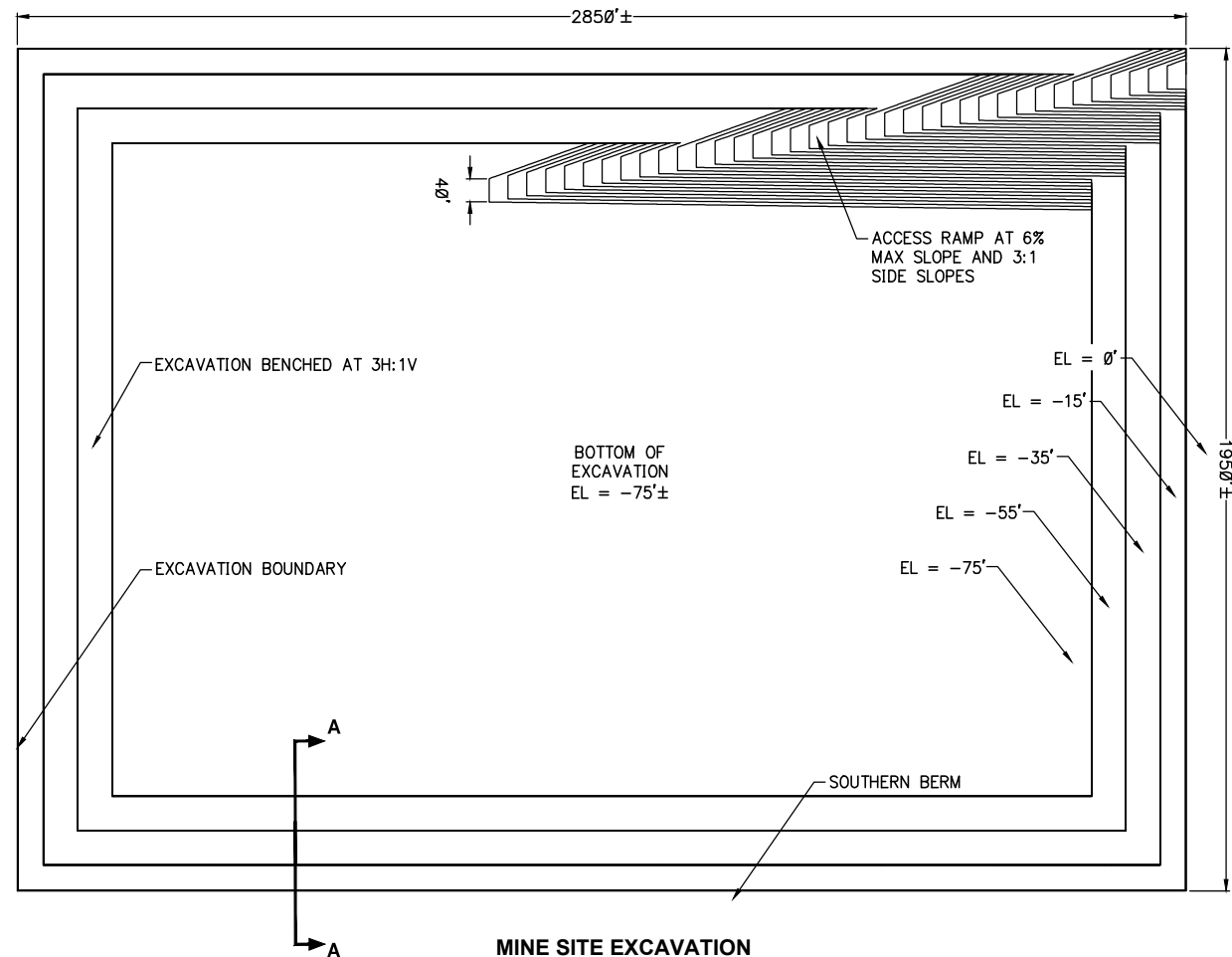
TYPICAL FIGURE E-18

ALASKA LNG

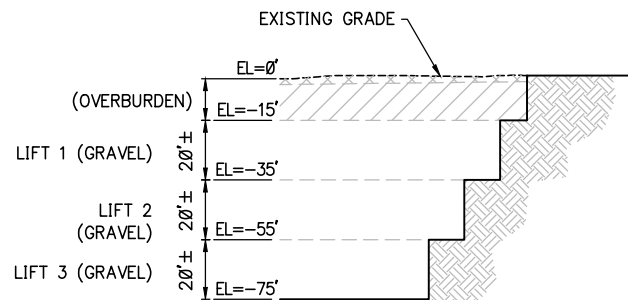
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MINE SITE EXCAVATION
NTS



SECTION A-A
MINE SITE EXCAVATION
NTS

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2. TO BE CONFIRMED/REVISED USING MORE GEOTECHNICAL DATA.
3. SOME FLEXIBILITY SHOULD BE MAINTAINED TO ACCOUNT FOR ACTUAL IN-PLACE MATERIALS AS DISCOVERED DURING EXCAVATIONS.
4. BERM REQUIREMENTS, DESIGN, AND CONSTRUCTION TO BE ADDRESSED IN FEED USING HYDROLOGY AND OTHER DATA REQUIRED.

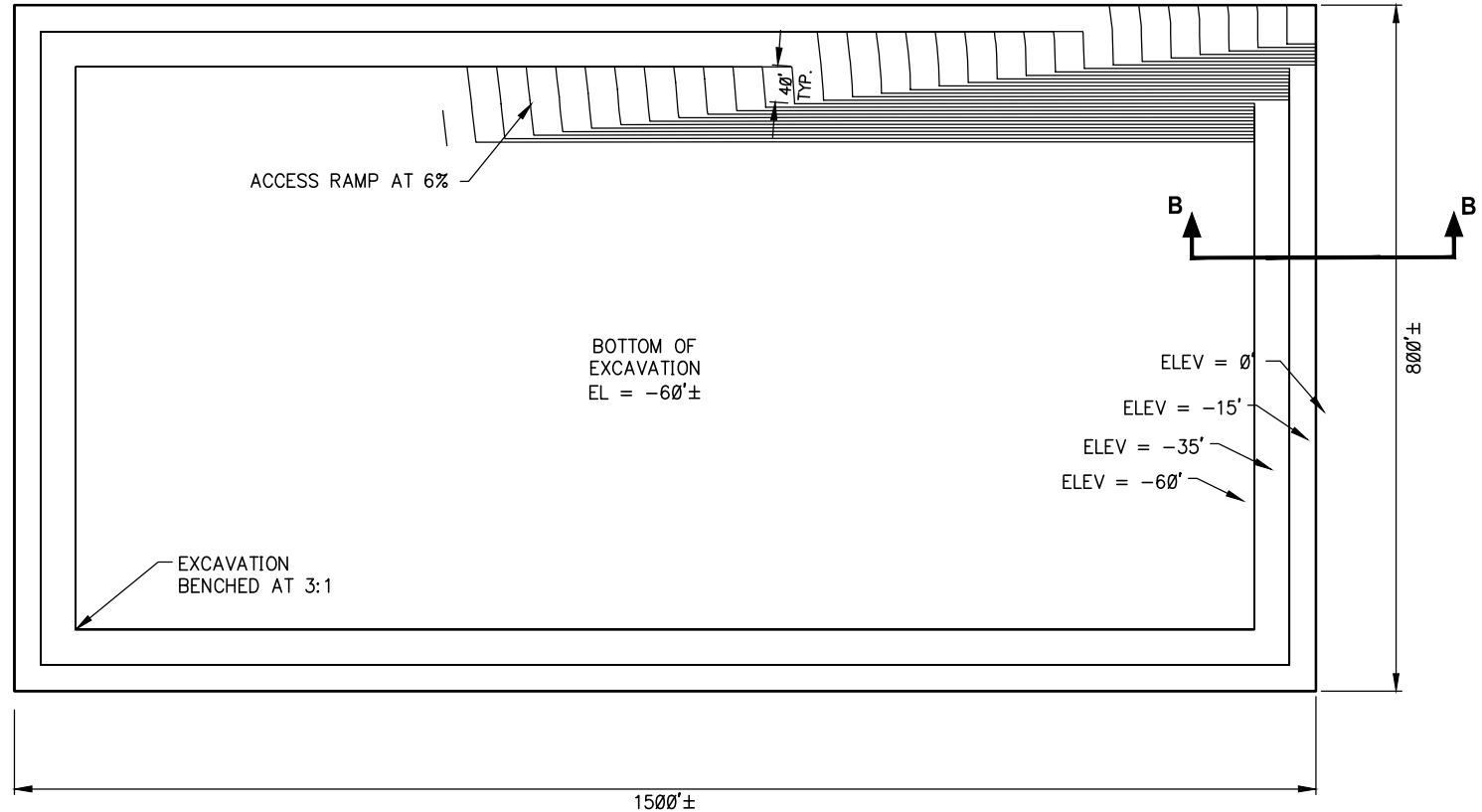
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GAS TREATMENT PLANT RESERVOIR LAYOUT

TYPICAL

FIGURE E-19

ALASKA LNG



RESERVOIR EXCAVATION

NTS

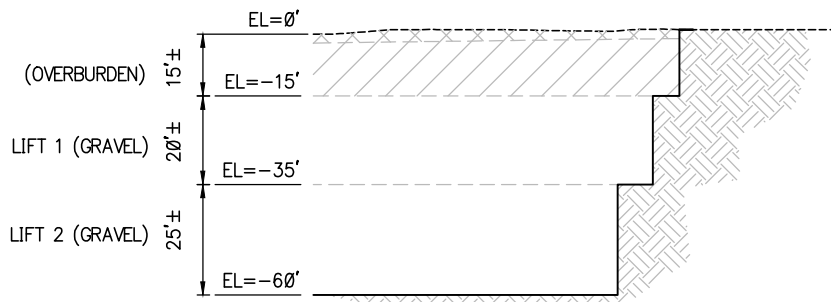
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SECTION B-B RESERVOIR EXCAVATION

NTS

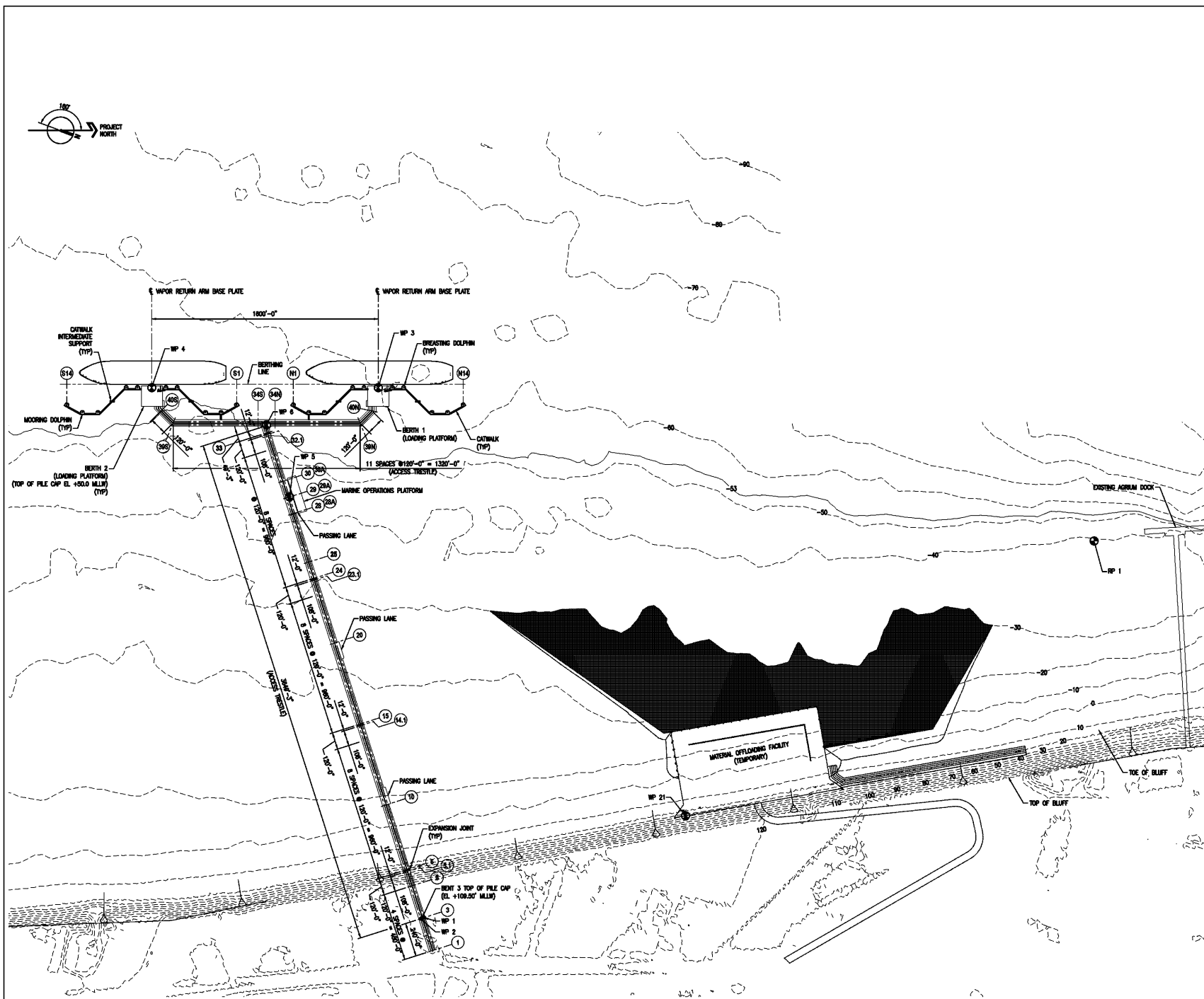
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4. BERM REQUIREMENTS, DESIGN, AND CONSTRUCTION TO BE ADDRESSED IN FEED USING HYDROLOGY AND OTHER DATA REQUIRED.

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TYPICAL FIGURE E-20

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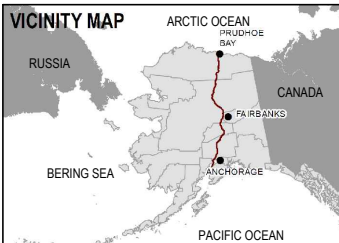
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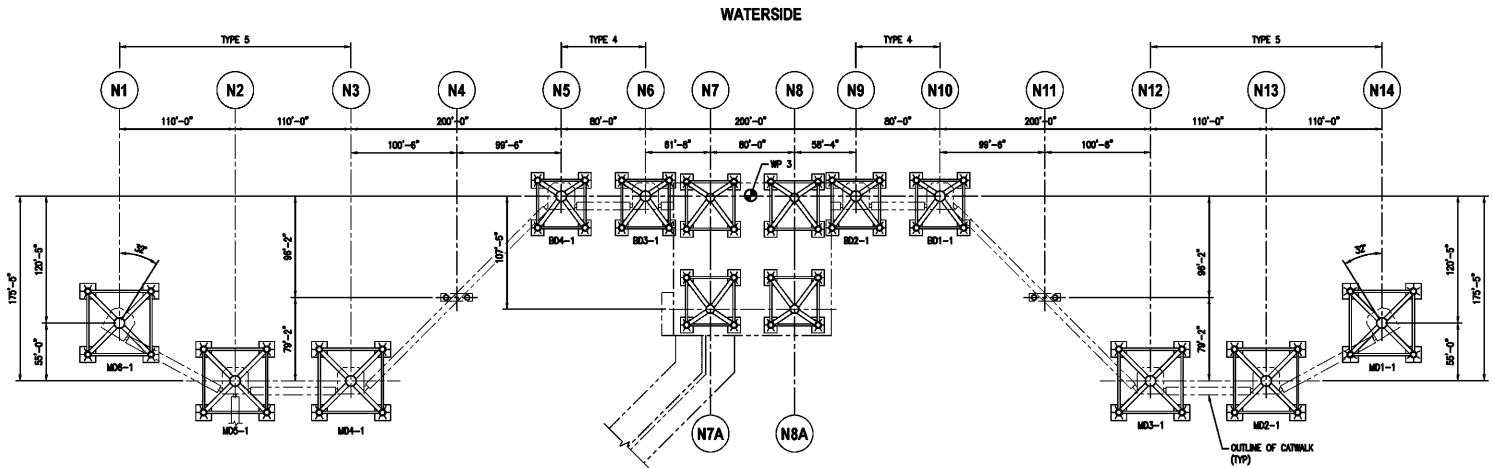
BERTH GENERAL ARRANGEMENT

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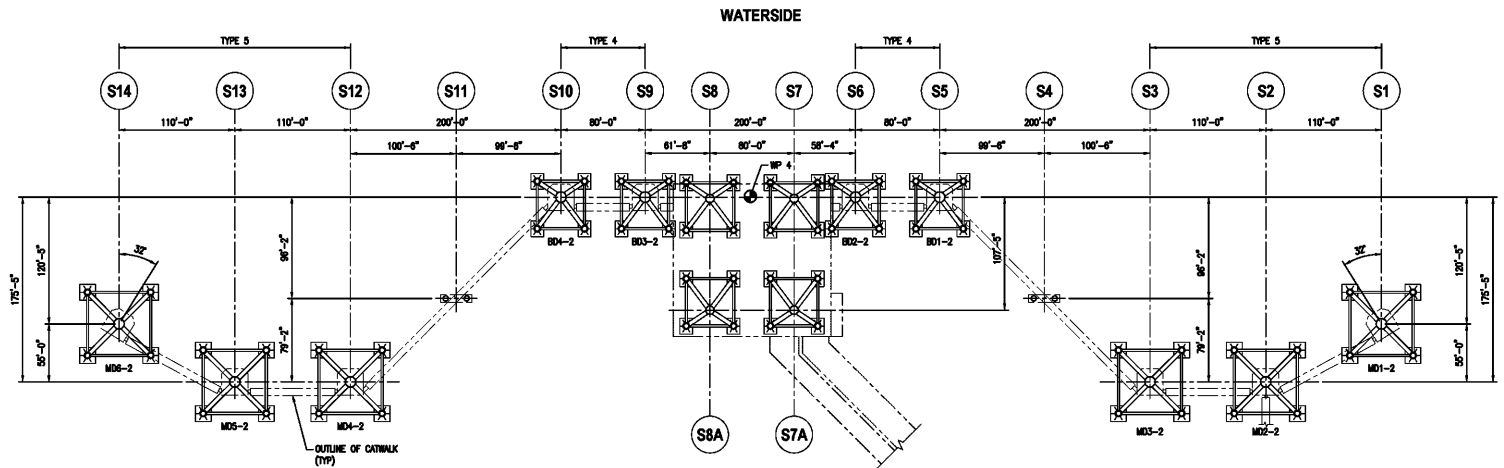
BERTH 1 & 2 ARRANGEMENTS

TYPICAL FIGURE E-21

ALASKA LNG



BERTH 1 (NORTH BERTH)



BERTH 2 (SOUTH BERTH)

BERTH FOUNDATION PLAN

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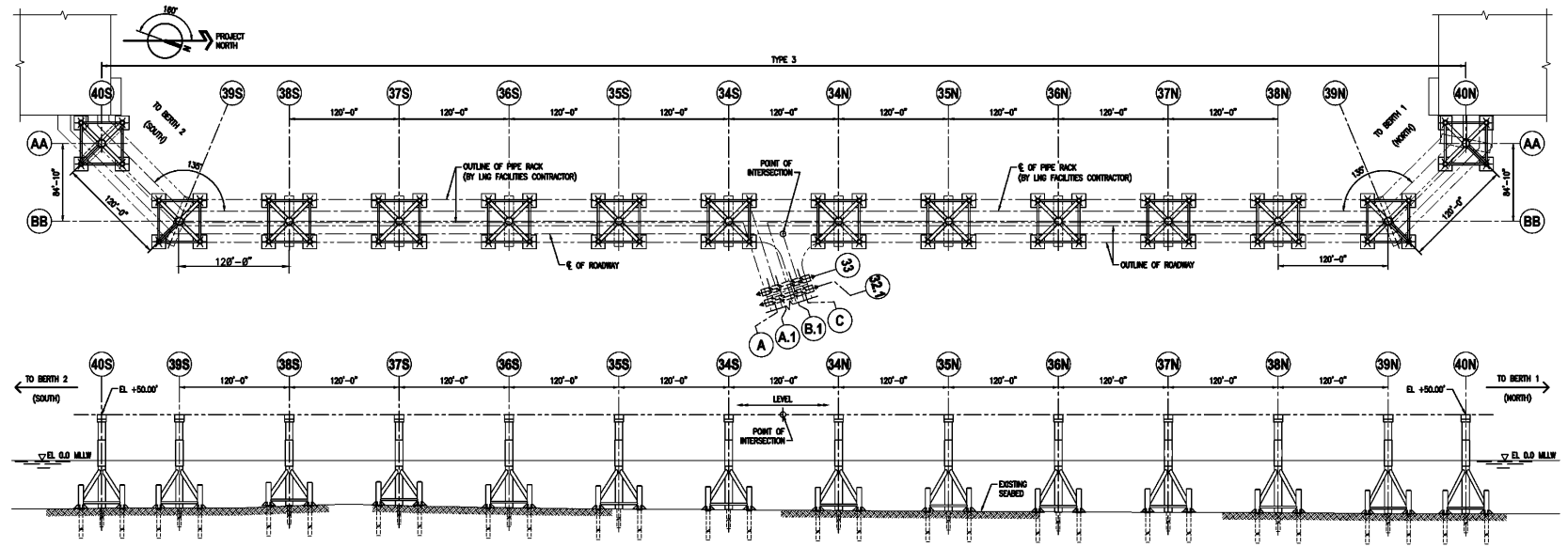


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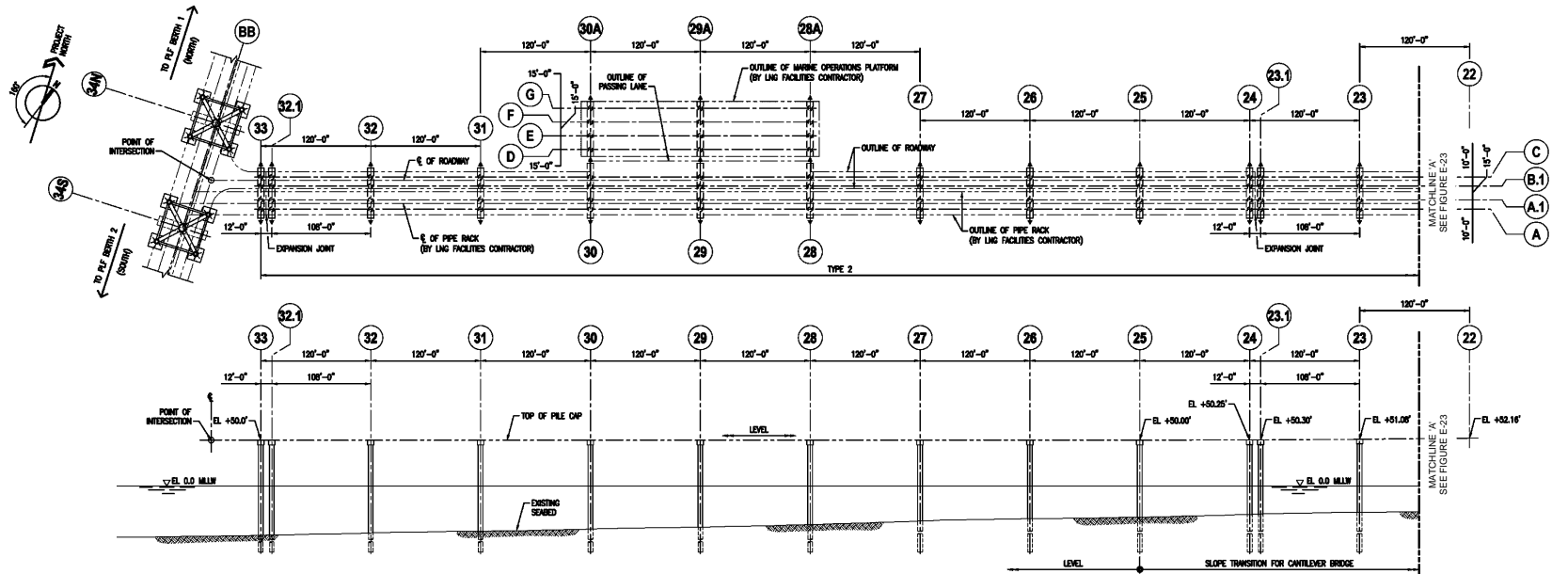
TRESTLE FOUNDATION PLAN & PROFILE 1/2

TYPICAL FIGURE E-22

ALASKA LNG



ACCESS TRESTLE FOUNDATION PLAN AND ELEVATION (N-S)



ACCESS TRESTLE FOUNDATION PLAN AND ELEVATION (E-W)

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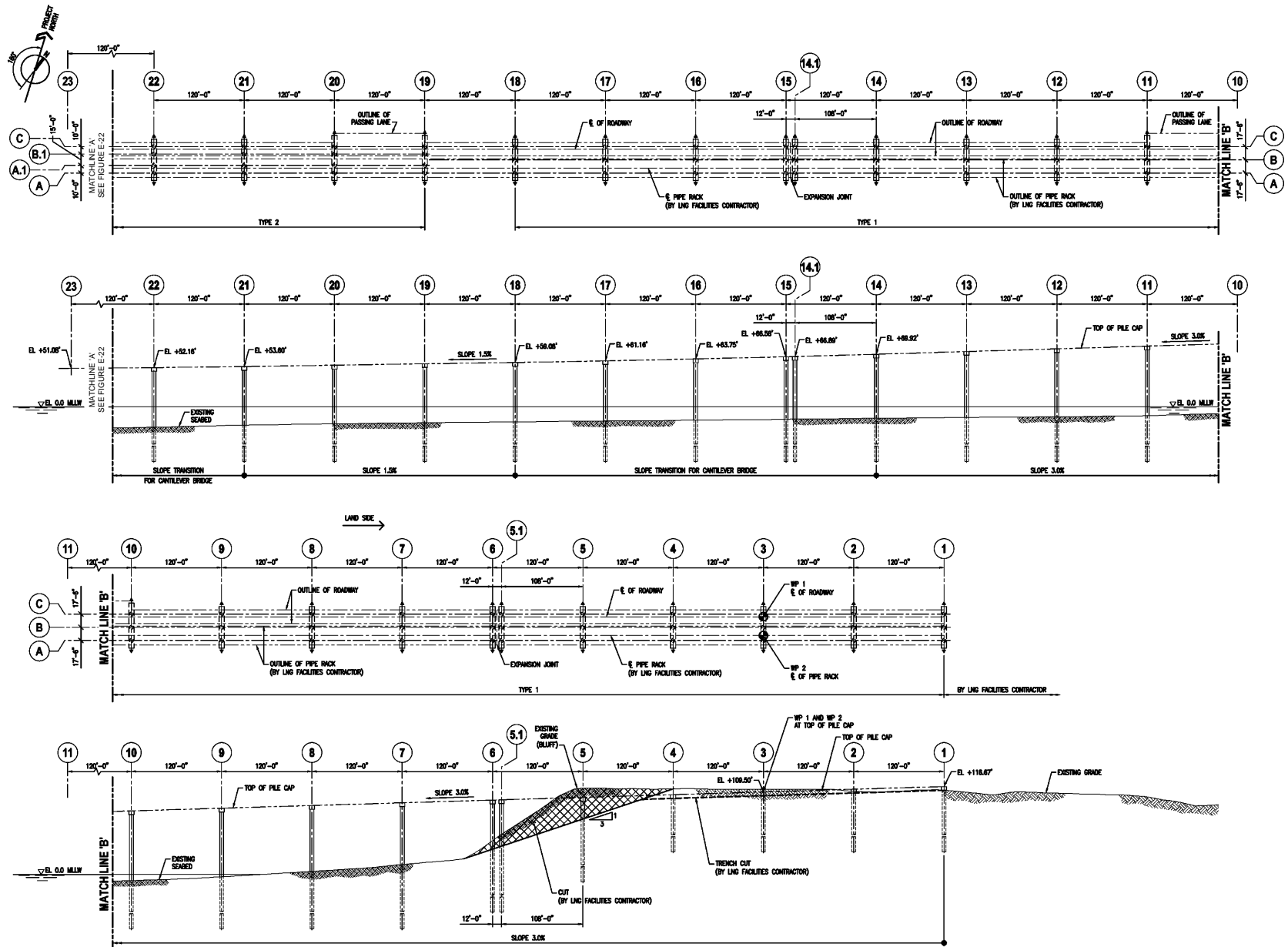


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TRESTLE FOUNDATION PLAN & PROFILE 2/2

TYPICAL FIGURE E-23

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ACCESS TRESTLE FOUNDATION PLAN AND ELEVATION (E-W)

PRELIMINARY &
SUBJECT TO CHANGE.
ALL DRAWINGS AND
DIMENSIONS TYPICAL

TYPICAL

FIGURE E-24

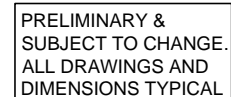
ALASKA LNG

ALASKA LNG



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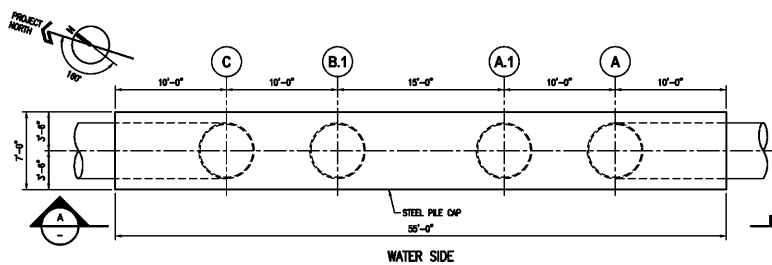
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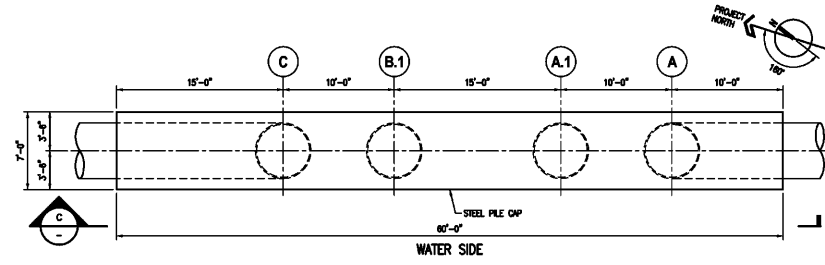
TRESTLE FOUNDATION PLAN TYPE 2

TYPICAL FIGURE E-25

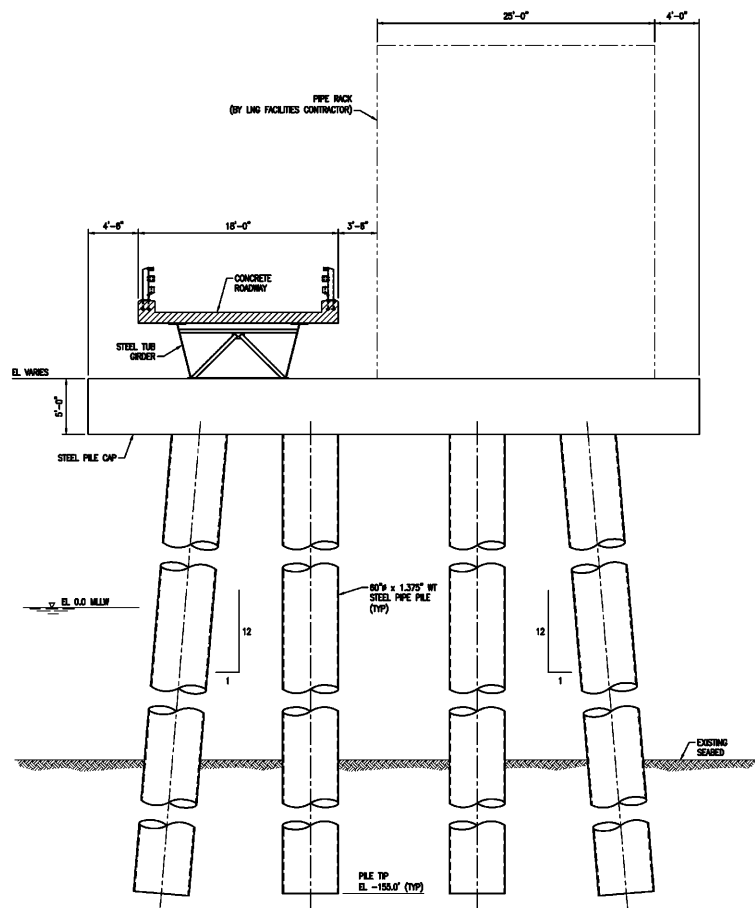
ALASKA LNG



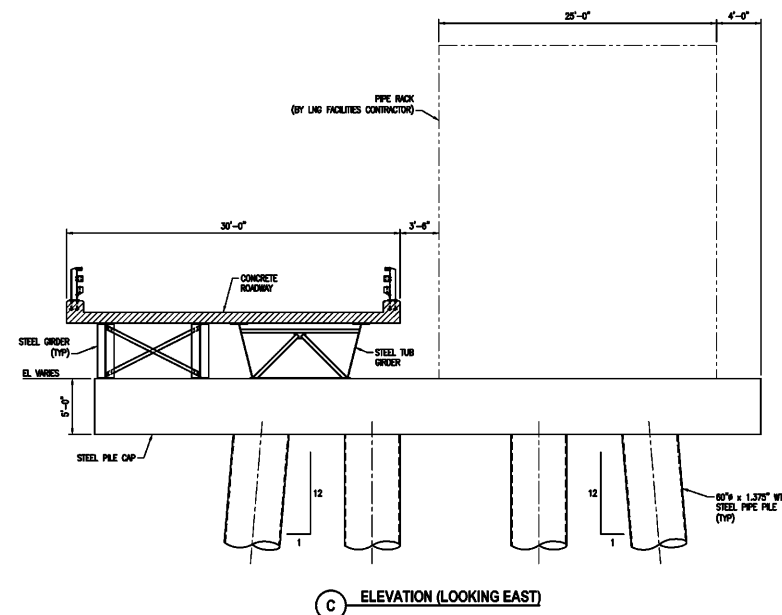
NOTE: PIPE RACK (BY LNG FACILITIES CONTRACTOR) NOT SHOWN FOR CLARITY
PLAN - ACCESS TRESTLE FOUNDATION TYPE 2 (BENTS 19 THRU 33)



NOTE: PIPE RACK (BY LNG FACILITIES CONTRACTOR) NOT SHOWN FOR CLARITY
PLAN - ACCESS TRESTLE STEEL PILE CAP AT PASSING LANE (BENTS 19, 20 AND 28 THRU 30)



A ELEVATION (LOOKING EAST)



C ELEVATION (LOOKING EAST)

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SCALE: NTS
DATE: 2017-04-14 SHEET: 1 OF 1



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TRESTLE FOUNDATION PLAN TYPE 3

TYPICAL FIGURE E-26

ALASKA LNG

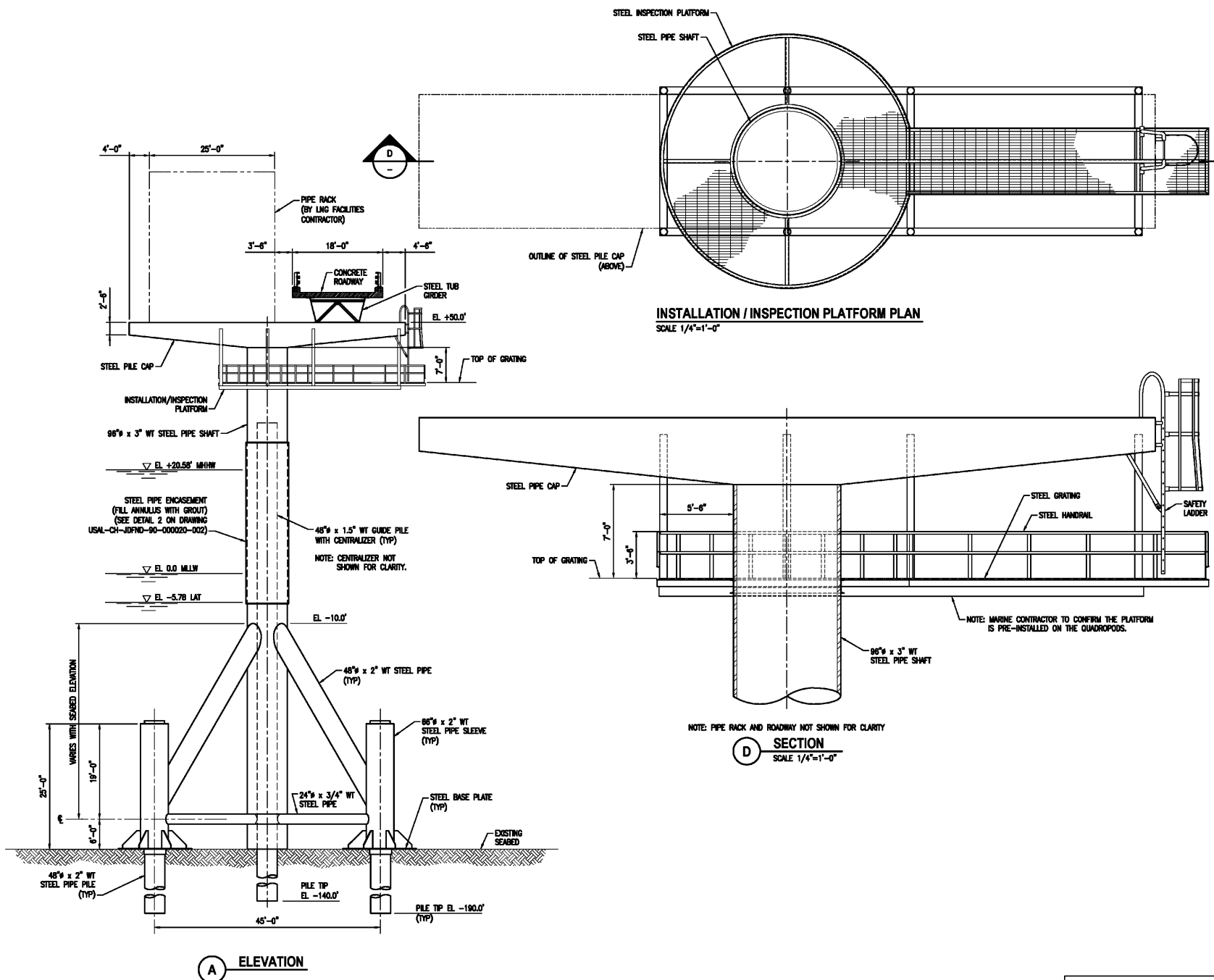
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MATERIAL OFFLOADING FACILITY GENERAL ARRANGEMENT

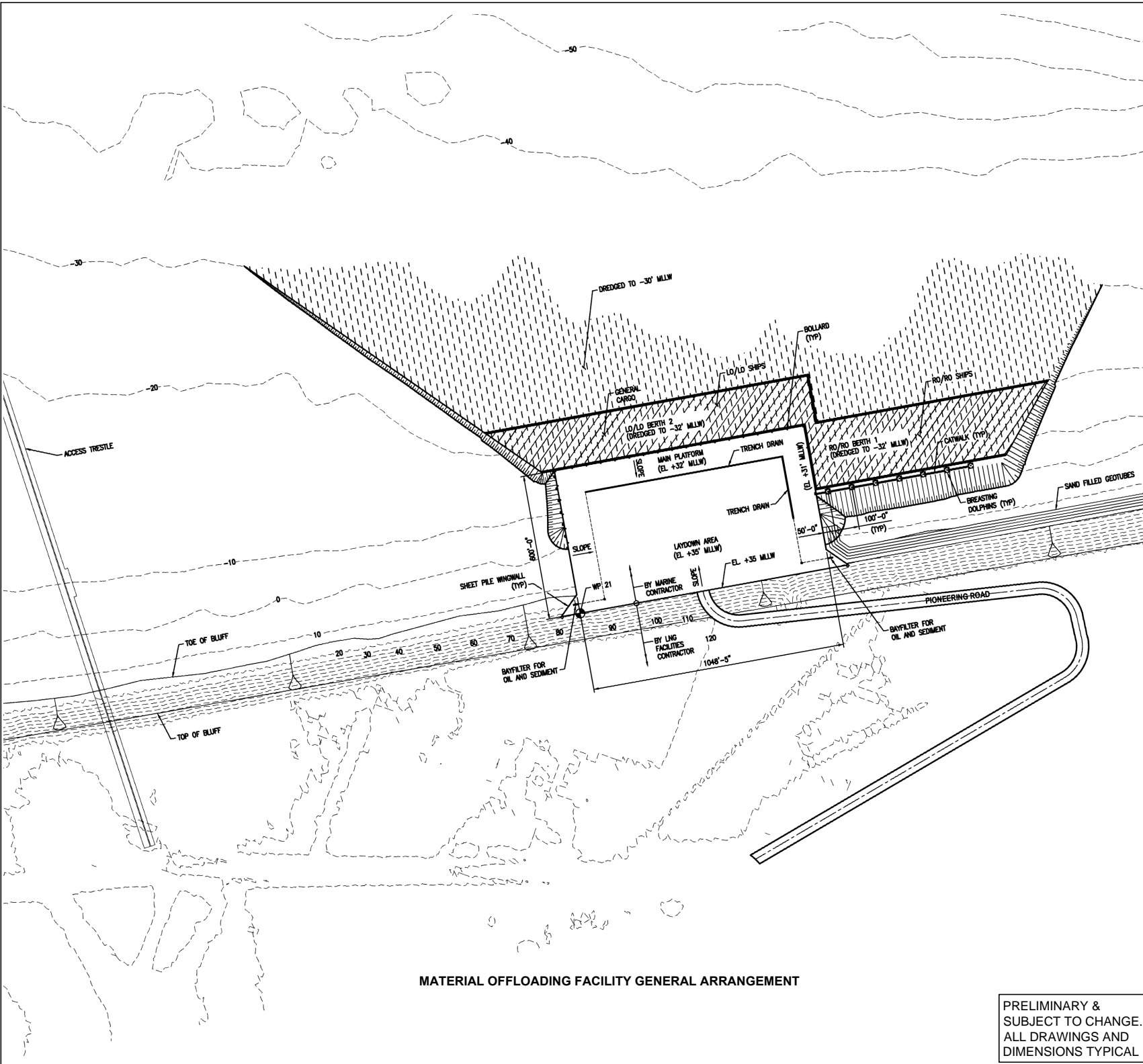
TYPICAL FIGURE E-27

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MATERIAL OFFLOADING FACILITY GENERAL ARRANGEMENT

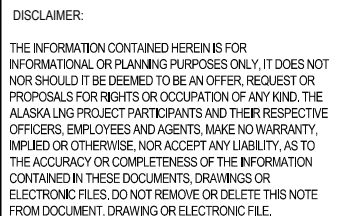
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TYPICAL

FIGURE E-28

ALASKA LNG

ALASKA LNG



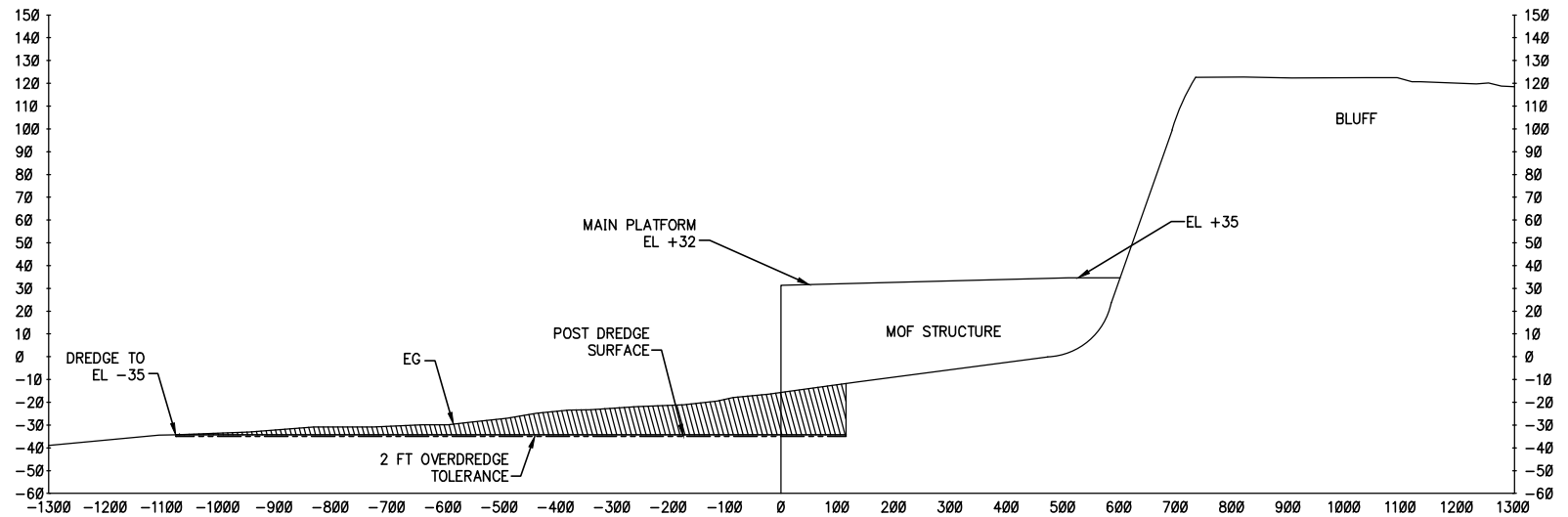
A vicinity map of Alaska showing the study area. The map includes labels for the Arctic Ocean, Bering Sea, Pacific Ocean, Russia, and Canada. A red line indicates the proposed pipeline route from Prudhoe Bay in the north to Anchorage in the south. The Fairbanks area is also marked.

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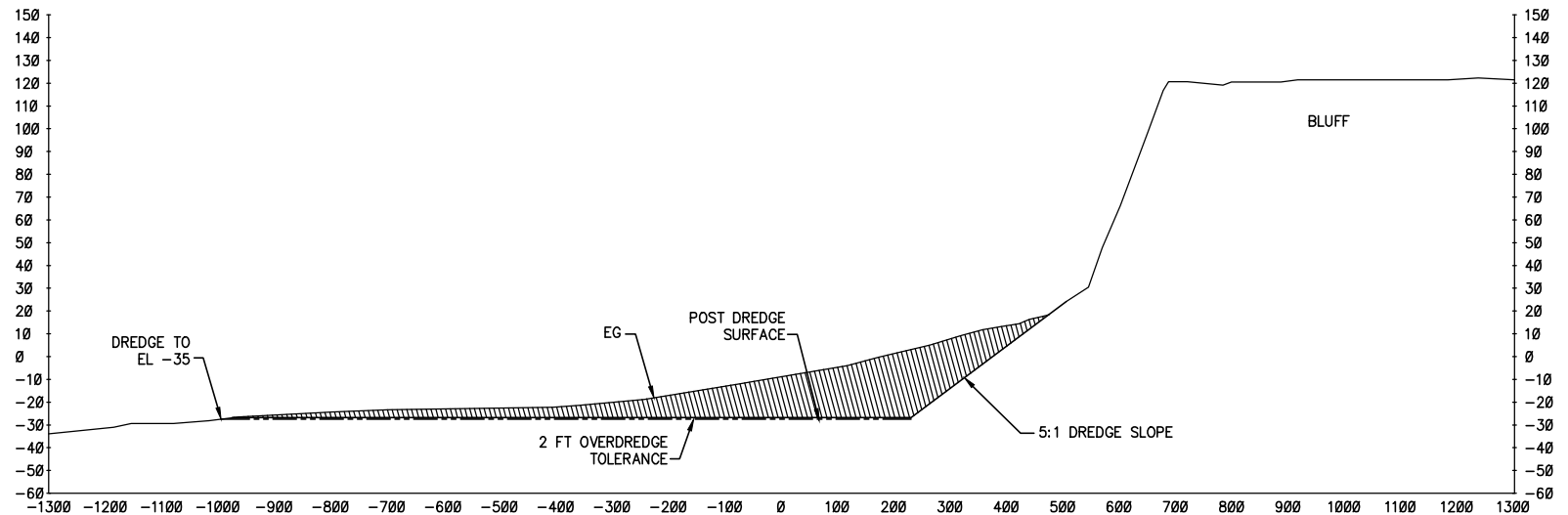
MOF DREDGING SECTION

TYPICAL FIGURE E-29

ALASKA LNG



A SECTION
H: 1"=100' V: 1"=40'



B SECTION
H: 1"=100' V: 1"=40'

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SCALE: 1" = 400'

DATE: 2017-04-14 SHEET: 1 OF 1



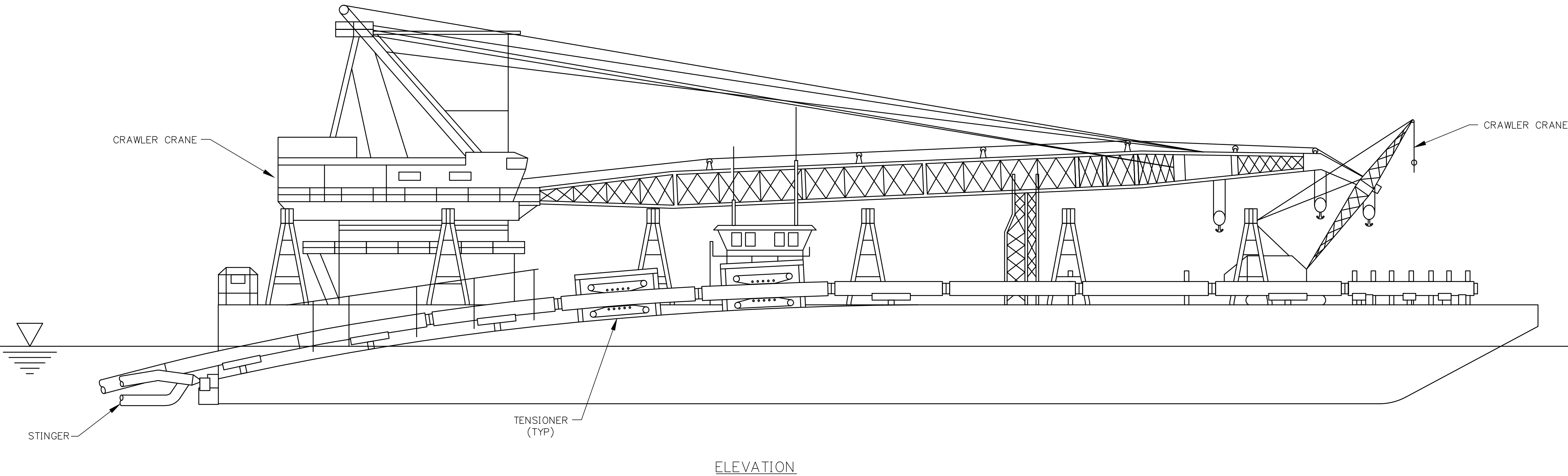
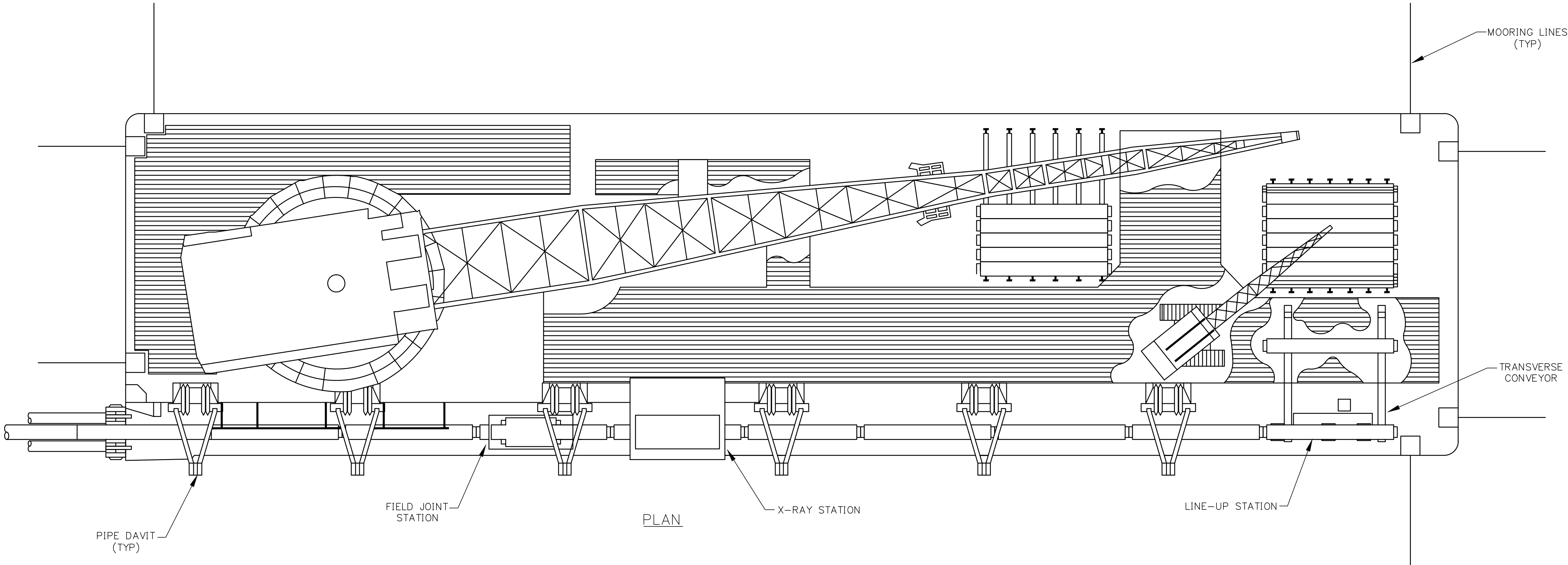
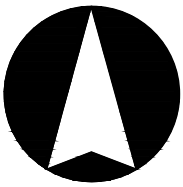
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DIMENSIONS TYPICAL

DERRICK AND
PIPELAY BARGE
DETAIL

TYPICAL FIGURE E-30

ALASKA LNG

TYPICAL DIMENSIONS
LENGTH: 400 ft
WIDTH: 120 ft
DEPTH: 30 ft
OPERATING DRAFT: 14 ft



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DIMENSIONS TYPICAL

LNG TANK

TYPICAL

FIGURE E-31

ALASKA LNG

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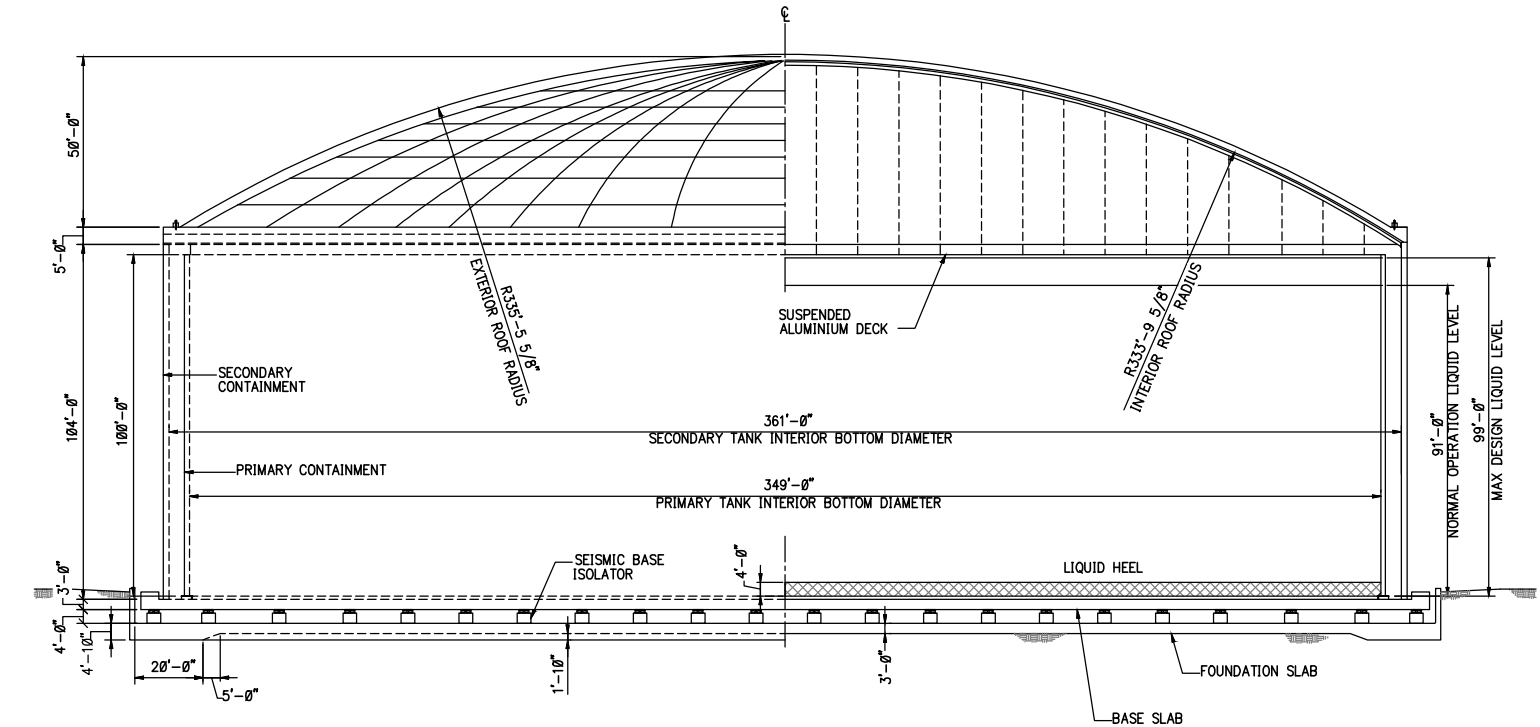
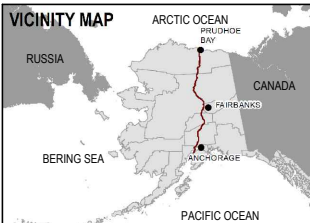
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VICINITY MAP



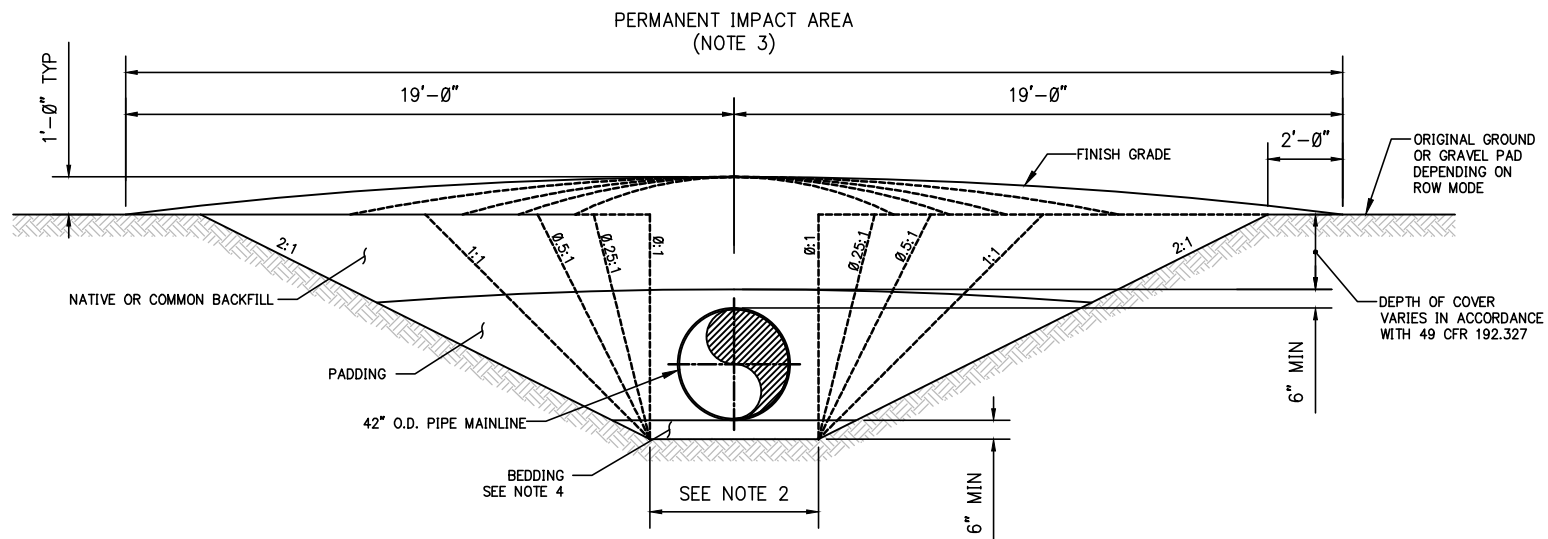
ELEVATION

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ALL DRAWINGS AND
DIMENSIONS TYPICAL

TRENCH MODE - TRENCH DETAIL

TYPICAL FIGURE E-32

ALASKA LNG



BURIED PIPE IN CONVENTIONAL TRENCH DETAIL (VARYING SIDE SLOPES)

NOT TO SCALE

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SIDE SLOPES ARE BASED ON SOIL TYPE AND TRENCHING EQUIPMENT		
GENERALIZED DITCH SOILS	SIDEWALL SLOPE	CONSTRUCTION MODE
FROZEN COARSE-GRAINED SOIL	VERTICAL	CHAIN DITCHER - DIFFICULT
FROZEN COARSE-GRAINED SOIL (STEEP)	VERTICAL	CHAIN DITCHER - DIFFICULT
FROZEN COARSE-GRAINED SOIL W/COBBLES	VERTICAL	CHAIN DITCHER - DIFFICULT
FROZEN FINE-GRAINED SOIL	VERTICAL	CHAIN DITCHER
FROZEN FINE-GRAINED SOIL (STEEP)	VERTICAL	CHAIN DITCHER
FROZEN FINE-GRAINED SOIL W/COBBLES	VERTICAL	CHAIN DITCHER
FROZEN ORGANICS/PEAT	VERTICAL	CHAIN DITCHER
FROZEN WEATHERED ROCK	0.5	RIP & BACKHOE
THAWED / FROZEN WEATHERED ROCK	VERTICAL	CHAIN DITCHER - DIFFICULT
THAWED COARSE-GRAINED SOIL	1	BACKHOE
THAWED COARSE-GRAINED SOIL (HIGH WATER)	2	BACKHOE
THAWED COARSE-GRAINED SOIL W/COBBLES	1	BACKHOE
THAWED COARSE-GRAINED SOIL W/COBBLES (HIGH WATER)	2	BACKHOE
THAWED FINE-GRAINED SOIL	VERTICAL	WHEEL DITCHER
THAWED FINE-GRAINED SOIL (STEEP)	0.25	BACKHOE
THAWED OR FROZEN COMPETENT ROCK, FROZEN COARSE, FINE GRAINED SOIL	2	DRILL & SHOOT

NOTES:

1. TYPICAL PIPE IN WETLANDS.
2. 5' FOR TRENCHER, 6' FOR BACKHOE.
3. IMPACT TO WOUS AND WETLANDS ARE CALCULATED ON THE ACTUAL TOE TO TOE WIDTH. THE TOE-TO-TOE DIMENSION VARIES FROM A MINIMUM OF 9 UP TO A MAXIMUM OF 38 FEET.
4. BEDDING ONLY REQUIRED IF NATIVE TRENCH MATERIAL IS NOT SUITABLE, OTHERWISE PIPE CAN REST ON NATIVE SOIL TRENCH BOTTOM.

49 CFR 192.327 COVER		
LOCATION	NORMAL SOIL	CONSOLIDATED ROCK
	INCHES (MILLIMETERS)	INCHES (MILLIMETERS)
CLASS 1 LOCATIONS	30 (762)	18 (457)
CLASS 2, 3, AND 4 LOCATIONS	36 (914)	24 (610)
DRAINAGE DITCHES OF PUBLIC ROADS AND RAILROAD CROSSINGS	36 (914)	24 (610)
STRAN BASED DESIGN PIPE	36 (914)	36 (914)
ROCK OR PERMAFROST	2	DRILL & SHOOT

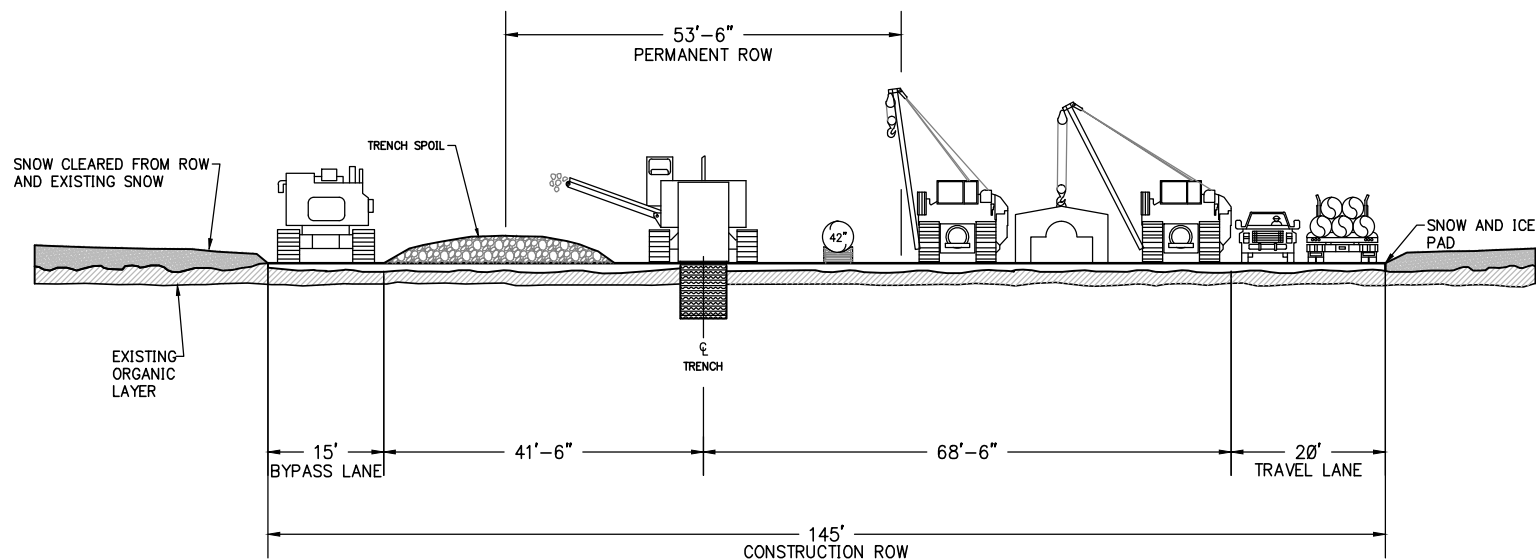
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RIGHT-OF WAY MODE #1 -
ICE WORK PAD NORTH
SLOPE (WINTER)

TYPICAL

FIGURE E-35

ALASKA LNG



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DATE: 2017-04-14 SHEET: 1 OF 1

VICINITY MAP



NOTES:

1. DRILL AND SHOOT MAY BE REQUIRED FOR DITCHING ACROSS LARGE ROCKY AREAS. IN THIS CASE, VOLUME OF DITCH AND SPOIL WOULD BE LARGER, REQUIRING ATWS FOR STORAGE (NOT SHOWN)

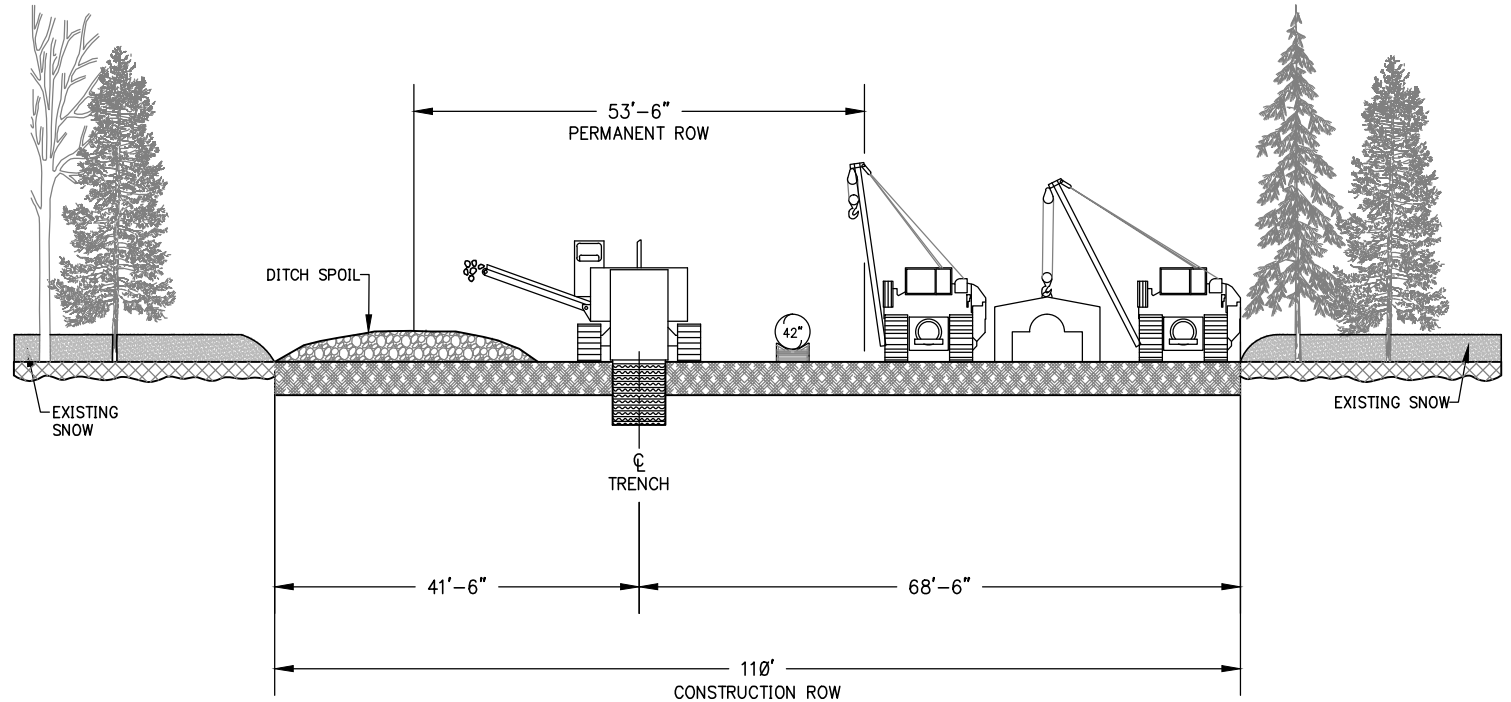
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RIGHT-OF WAY MODE # 2 -
WINTER FROST PACKED

TYPICAL

FIGURE E-36

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VICINITY MAP



NOTES:

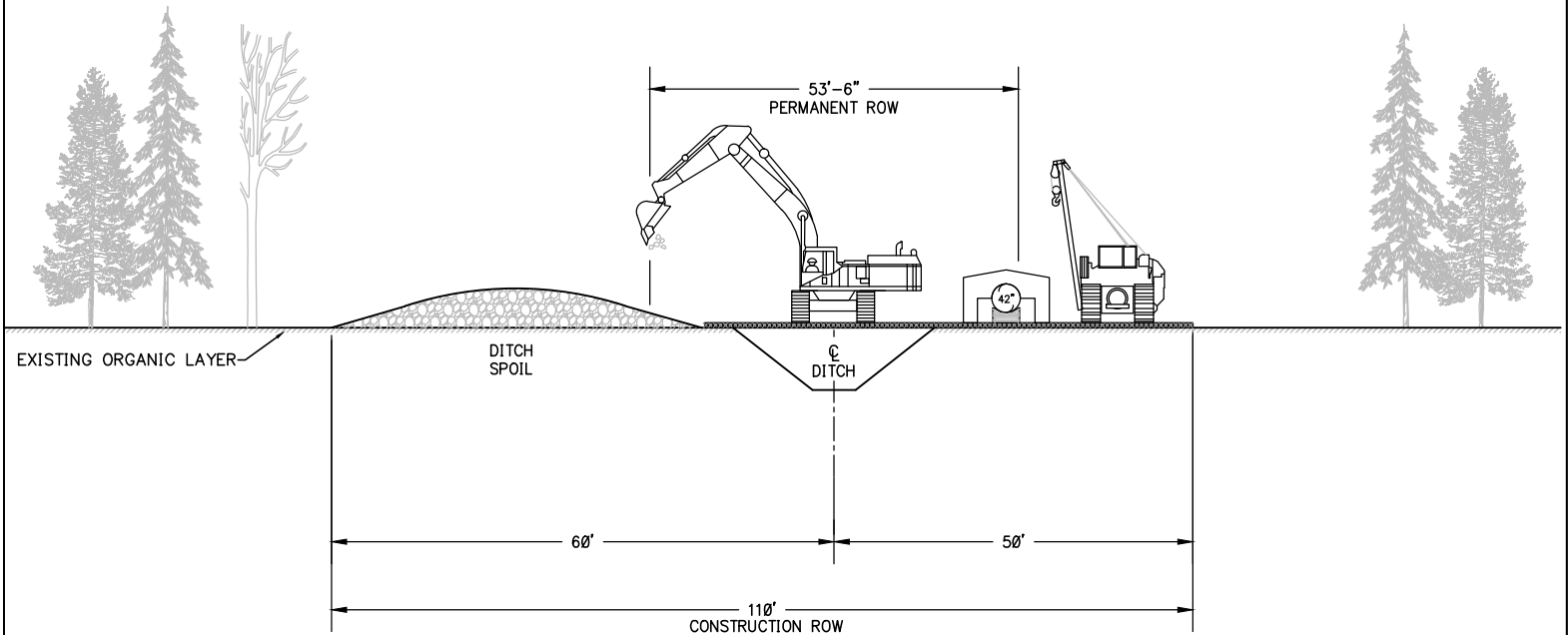
1. WHERE REQUIRED, 20 FEET MORE FOR TRAVEL LANE ON WORKING SIDE.
2. WHERE REQUIRED, 15 FEET MORE FOR BYPASS LANE ON SPOIL SIDE.
3. DRILL AND SHOOT MAY BE REQUIRED FOR DITCHING ACROSS ROCKY AREAS. IN THIS CASE, VOLUME OF DITCH AND SPOIL WOULD BE LARGER, REQUIRING ATWS FOR STORAGE (NOT SHOWN).
4. STORAGE FOR SNOW MANAGEMENT AND LOOSE SURFACE MATERIAL WILL REQUIRE ATWS (NOT SHOWN).
5. TREE STUMPS WILL BE REMOVED OVER THE DITCH-LINE AND DISPOSED OF, PRIOR TO DITCHING ACTIVITIES.

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DIMENSIONS TYPICAL

RIGHT-OF WAY MODE # 3 -
MATTED SUMMER WETLANDS

TYPICAL FIGURE E-37

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VICINITY MAP



NOTES:

1. WHERE REQUIRED, 20 FEET MORE FOR TRAVEL LANE ON WORKING SIDE.
2. WHERE REQUIRED, 15 FEET MORE FOR BYPASS LANE ON SPOIL SIDE.
3. MATS WILL BE TRADITIONAL PIPELINE WETLAND MATS (HARDWOOD OR COMPOSITE).
4. MATS WILL BE USED ONLY AT SITE SPECIFIC LOCATIONS WHERE SATURATED WETLANDS PREVENT CONSTRUCTION EQUIPMENT FROM WORKING ON THE ROW.

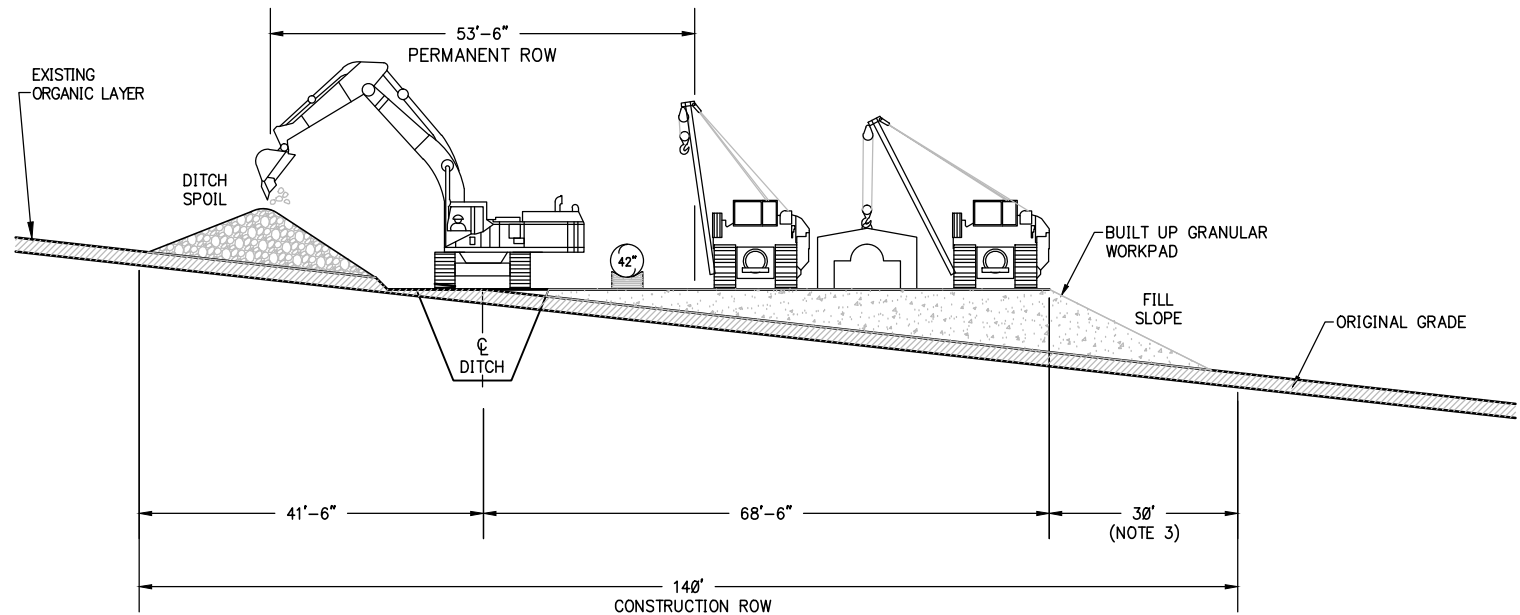
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ALL DRAWINGS AND
DIMENSIONS TYPICAL

RIGHT-OF WAY MODE # 4 -
GRANULAR WORK PAD OVER
THAW SENSITIVE PERMAFROST
(WINTER & SUMMER)

TYPICAL

FIGURE E-38

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VICINITY MAP



NOTES:

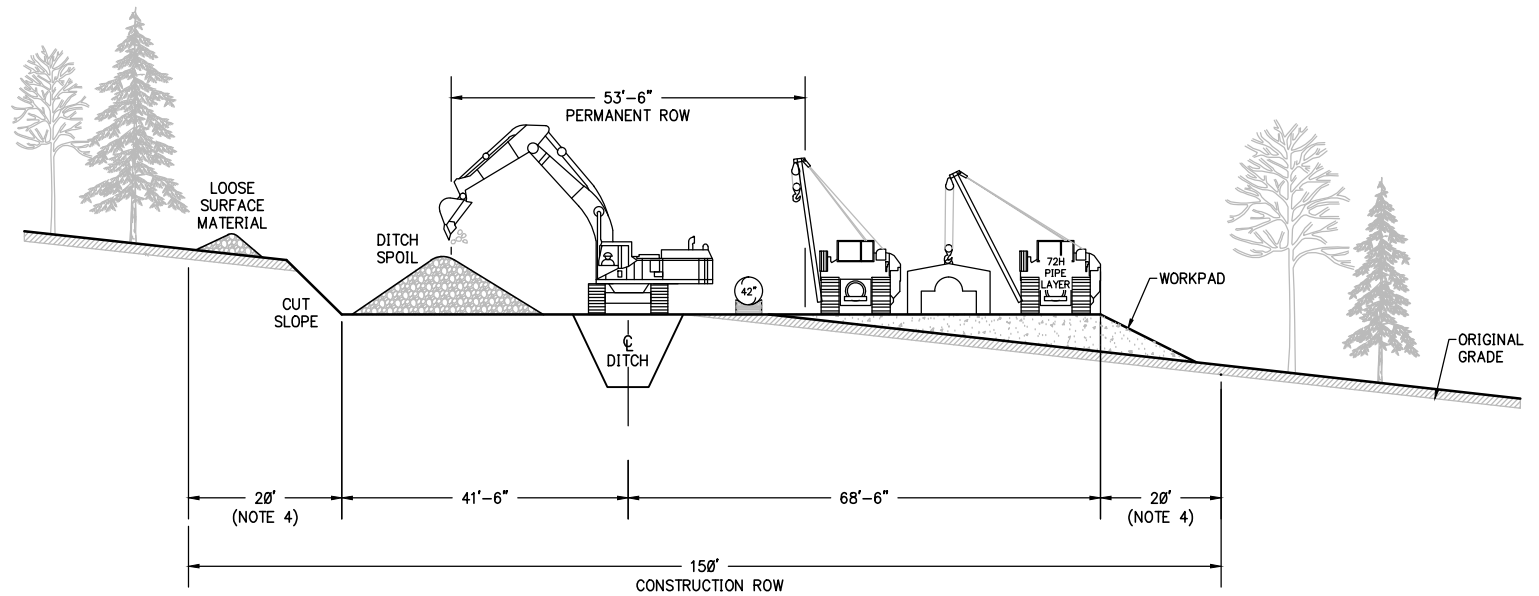
1. GEOTEXTILE AND GEOGRID REINFORCEMENT MAY BE PLACED AT BASE OF BUILT-UP WORK PAD.
2. NOMINAL CONFIGURATION FOR MAXIMUM OF 10% CROSS SLOPE.
3. WIDTH OF AREA FOR FILL SLOPE WILL VARY WITH TOPOGRAPHY AND MAY EXCEED VALUE SHOWN. CUT SLOPE AREA MAY ALSO BE REQUIRED FOR CROSS SLOPES STEEPER THAN 10%.
4. WHERE REQUIRED, 20 FEET MORE FOR TRAVEL LANE ON WORKING SIDE.
5. WHERE REQUIRED, 15 FEET MORE FOR BYPASS LANE ON SPOIL SIDE

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RIGHT-OF WAY MODE # 5A -
GRADED CROSS SLOPES
(WINTER OR SUMMER)

TYPICAL FIGURE E-39

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DATE: 2017-04-14 SHEET: 1 OF 1

VICINITY MAP



NOTES:

1. WHERE REQUIRED, 20 FEET MORE FOR TRAVEL LANE ON WORKING SIDE.
2. WHERE REQUIRED, 15 FEET MORE FOR BYPASS LANE ON SPOIL SIDE.
3. LOOSE SURFACE MATERIAL FROM GRADED CUT WILL BE STORED ON TOP OF CUT SLOPE WHERE REQUIRED.
4. WIDTH OF AREAS WILL VARY WITH TOPOGRAPHY AND MAY EXCEED VALUE SHOWN.

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RIGHT-OF WAY MODES #5B -
MOUNTAIN GRADED CUT
(SUMMER)

TYPICAL

FIGURE E-40

ALASKA LNG

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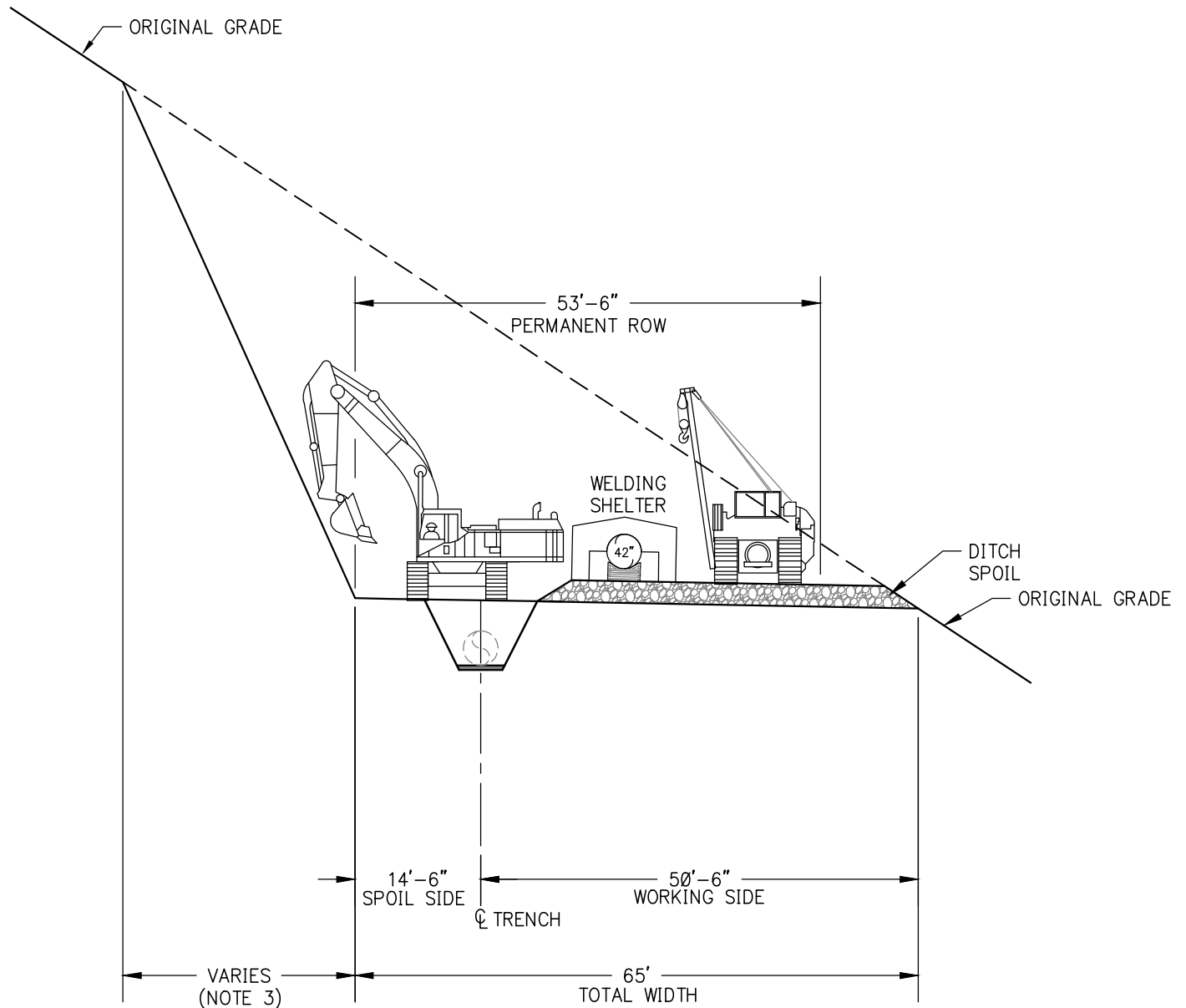
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VICINITY MAP



NOTES:

1. ROW CUT MATERIAL TO BE HAULED TO DISPOSAL AREA.
2. CUT SLOPE VARIES WITH TERRAIN AND COMPETENCY OF ROCK.
3. WIDTH OF AREA FOR CUT SLOPE WILL VARY WITH TOPOGRAPHY.

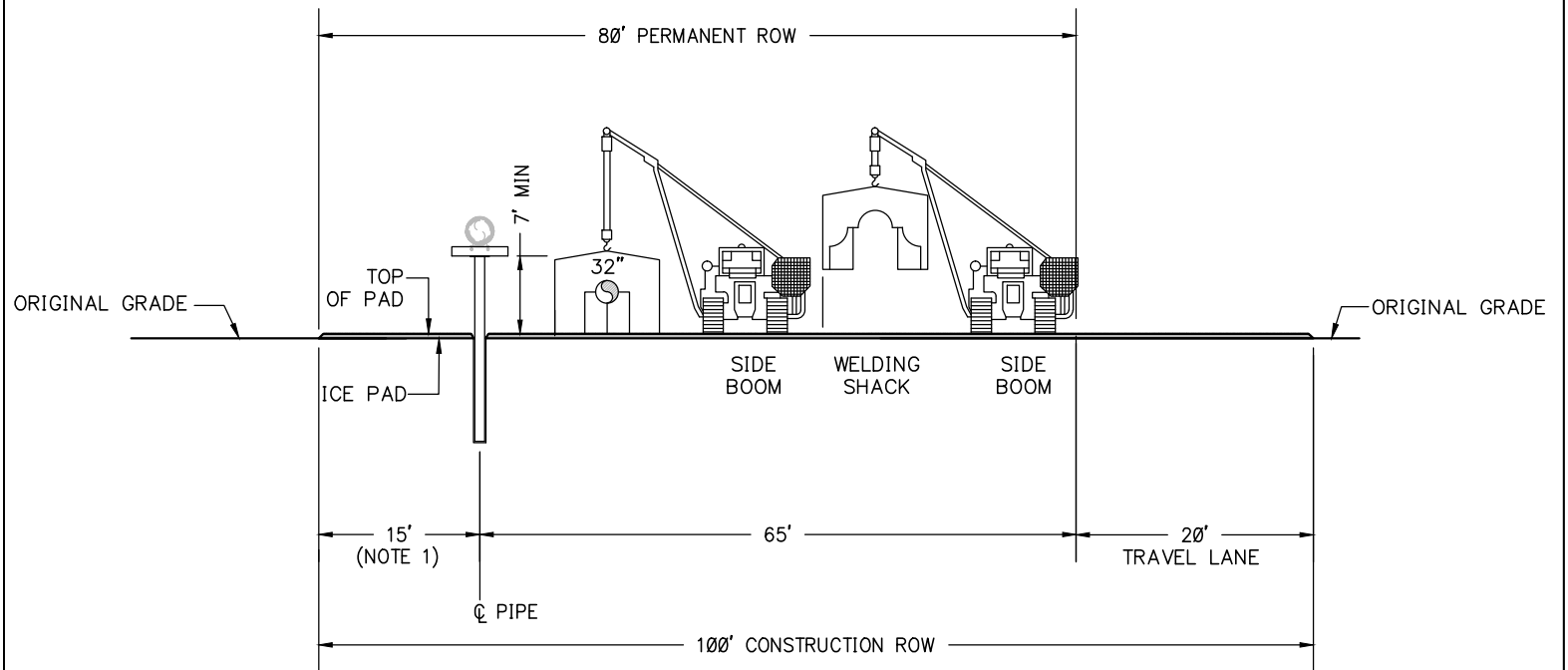
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RIGHT-OF WAY MODE # 6 -
PTTL ABOVE GROUND
PIPELINE ON VSMs

TYPICALS

FIGURE E-41

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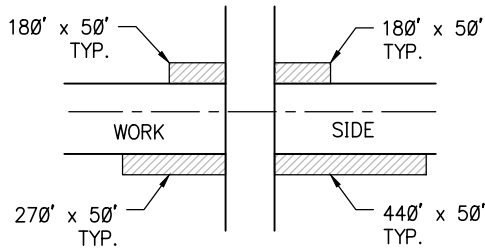
VICINITY MAP



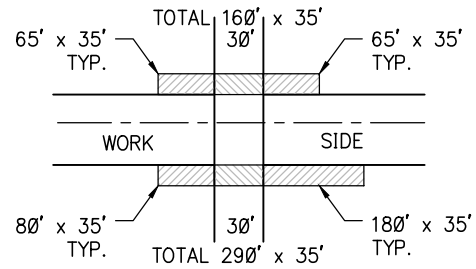
NOTES:

1. WORKING AREA FOR DRILLING AND VSM STRINGING.

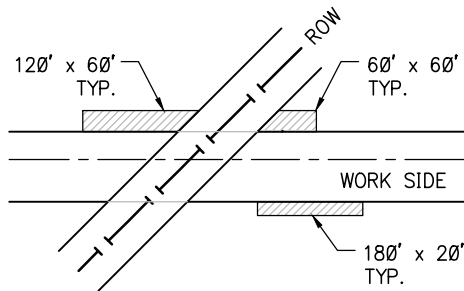
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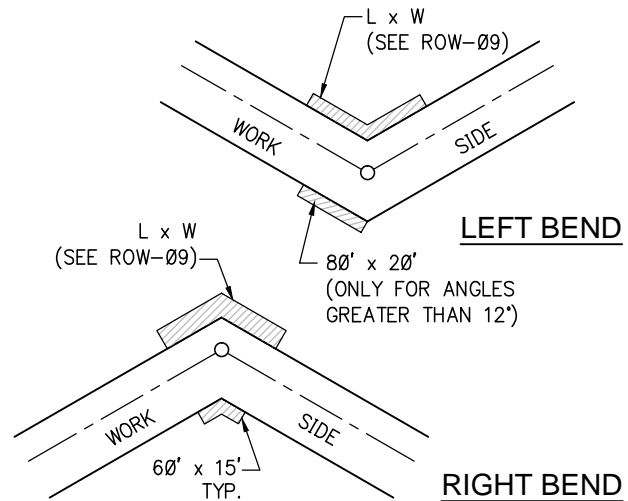
HIGHWAY CROSSING (BORED)



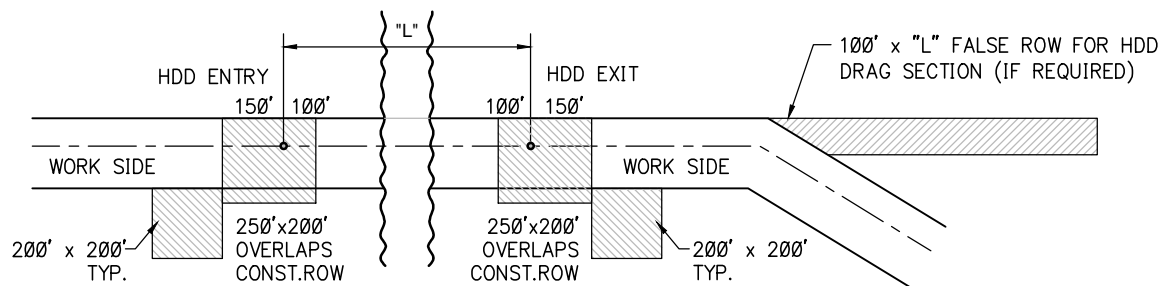
ROAD CROSSING (OPEN CUT)



FOREIGN PIPELINE CROSSING



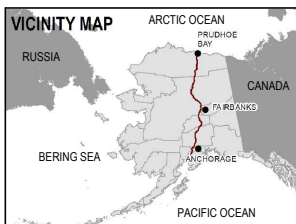
RIGHT BEND



HORIZONTAL DIRECTIONAL DRILL (HDD)

--- PROPOSED GAS PIPELINE
 --- CONSTRUCTION ROW BOUNDARY
 [Hatched Box] ADDITIONAL TEMPORARY WORKSPACE (N.T.S.)

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 DIMENSIONS TYPICAL



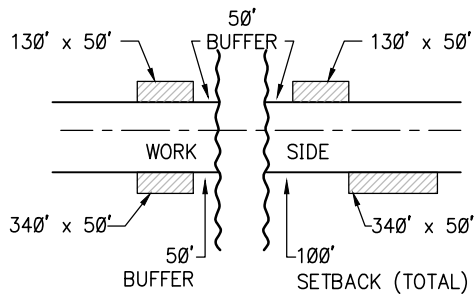
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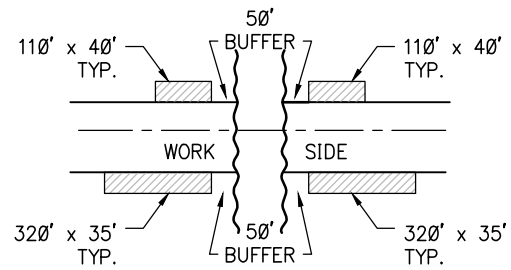
ADDITIONAL TEMPORARY
 WORKSPACE 1/3

TYPICAL FIGURE E-42

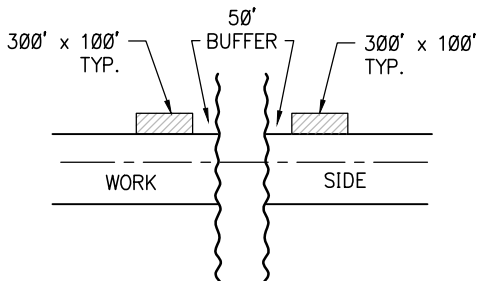
ALASKA LNG



**WATERCOURSE CROSSING
INTERMEDIATE (UP TO 100')**



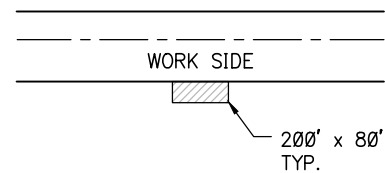
**WATERCOURSE CROSSING
MINOR**



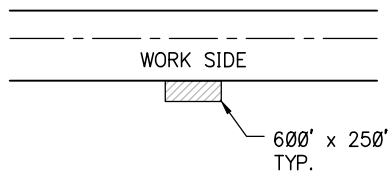
WETLAND CROSSING (SUMMER)

WETLAND CROSSING (WINTER)

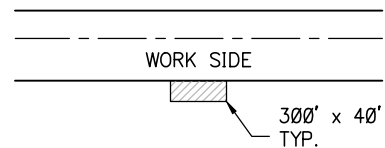
ATWS ON WETLAND x 60'
(NOT IN TUNDRA AREAS)



TURN AROUND



BEGINNING/END OF SPREAD



TIMBER DECK

--- PROPOSED GAS PIPELINE
--- CONSTRUCTION ROW BOUNDARY
[Hatched Box] ADDITIONAL TEMPORARY
WORKSPACE (N.T.S.)

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ADDITIONAL TEMPORARY
WORKSPACE 2/3

TYPICAL FIGURE E-43

ALASKA LNG

HORIZONTAL BENDS

LEFT	LENGTH (FT)	WIDTH (FT)	LOCATION
2'-12'	320	35	SPOILSIDE (320' SPLIT 100' AND 220' AT PI)
12'-90'	80	20	WORKSIDE (ONE SIDE OF PI)
12'-20'	120	35	SPOILSIDE
20'-30'	140	35	SPOILSIDE
30'-40'	150	35	SPOILSIDE
40'-50'	170	35	SPOILSIDE
50'-60'	180	35	SPOILSIDE
60'-70'	190	35	SPOILSIDE
70'-80'	200	35	SPOILSIDE
80'-90'	210	35	SPOILSIDE
RIGHT	LENGTH (FT)	WIDTH (FT)	LOCATION
2'-90'	60	15	WORKSIDE (WRAP AROUND PI)
2'-12'	340	35	SPOILSIDE
12'-20'	240	35	SPOILSIDE
20'-30'	250	35	SPOILSIDE
30'-40'	260	35	SPOILSIDE
40'-50'	290	35	SPOILSIDE
50'-60'	290	35	SPOILSIDE
60'-70'	300	35	SPOILSIDE
70'-80'	330	35	SPOILSIDE
80'-90'	340	35	SPOILSIDE

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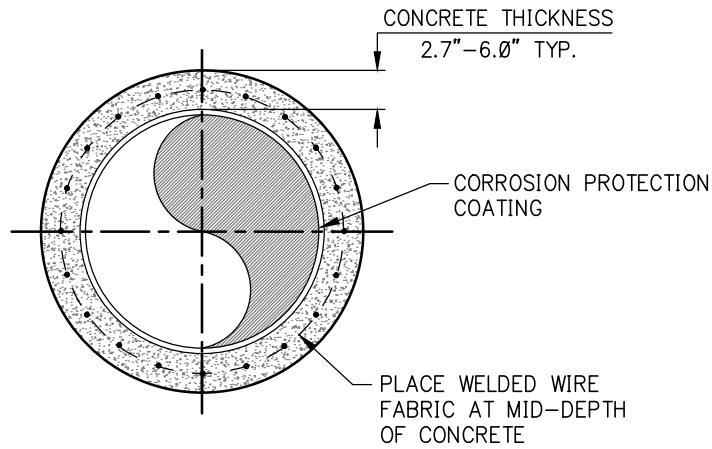
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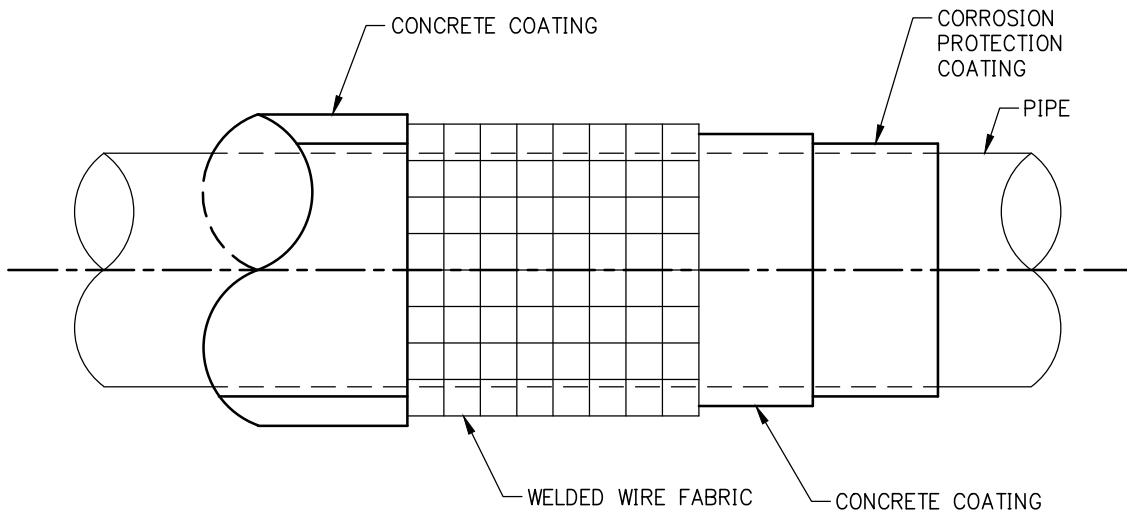
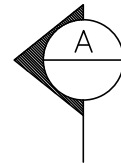
ADDITIONAL TEMPORARY
WORKSPACE 3/3

TYPICALFIGURE E-44

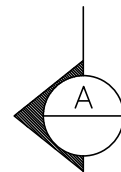
ALASKA LNG



SECTION A



ELEVATION



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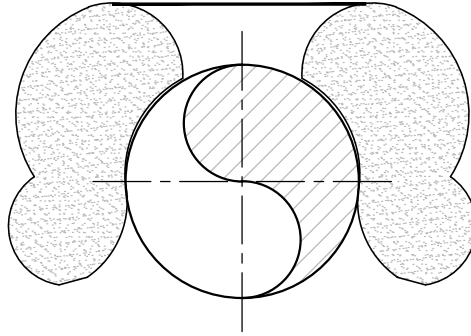
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DATE:	2017-04-14
SHEET:	1 OF 1

BUOYANCY CONTROL -
CONCRETE COATING,
ONSHORE

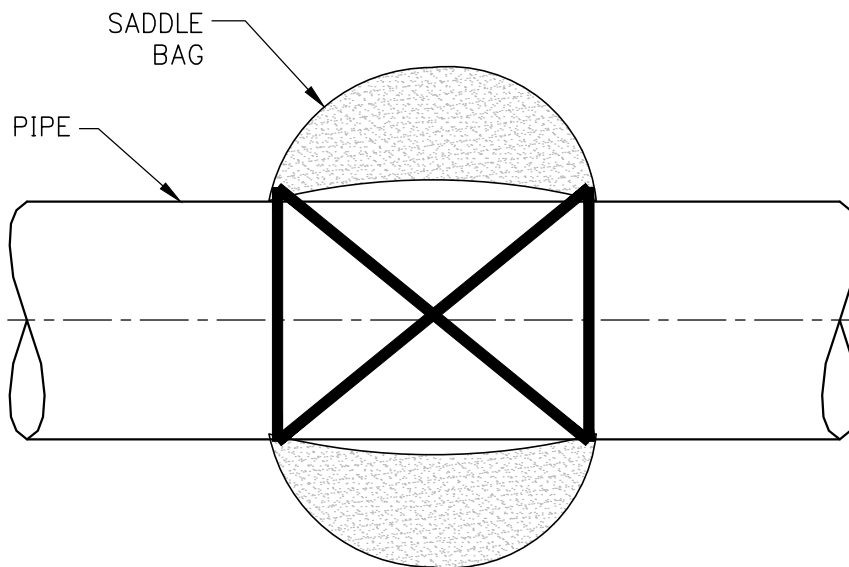
TYPICAL

FIGURE E-45

ALASKA LNG



SECTION

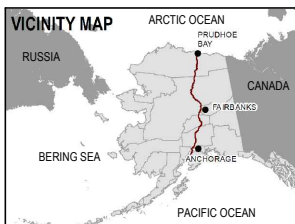


PLAN

NOTE:

1. BAGS FILLED WITH LOCALLY SOURCED OR IMPORTED MINERAL SOIL.

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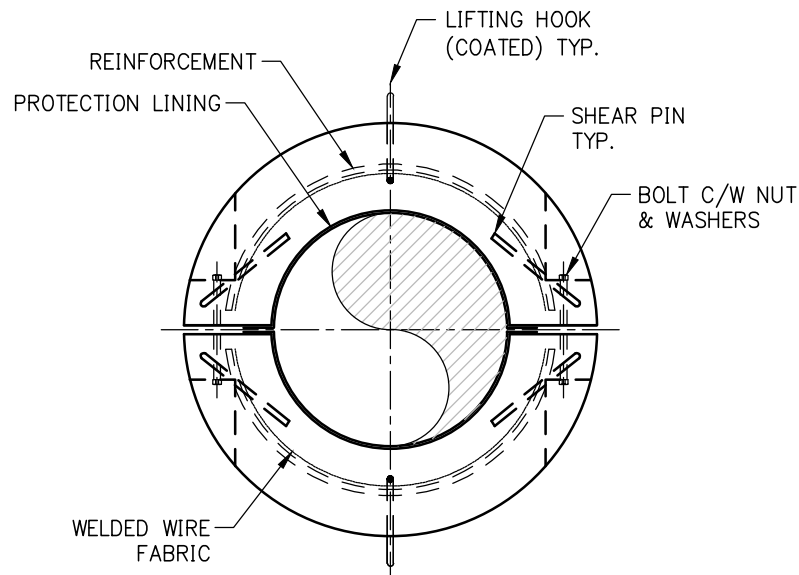
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BUOYANCY CONTROL -
SADDLE BAGS

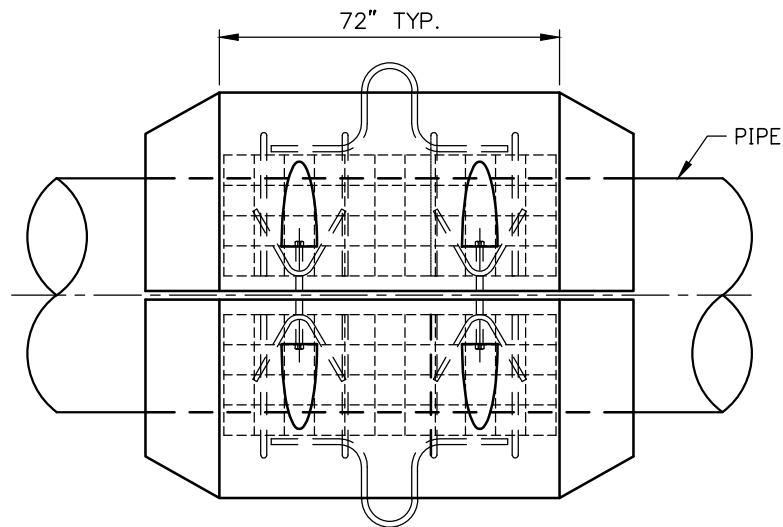
TYPICAL

FIGURE E-46

ALASKA LNG



SECTION



ELEVATION

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DIMENSIONS TYPICAL



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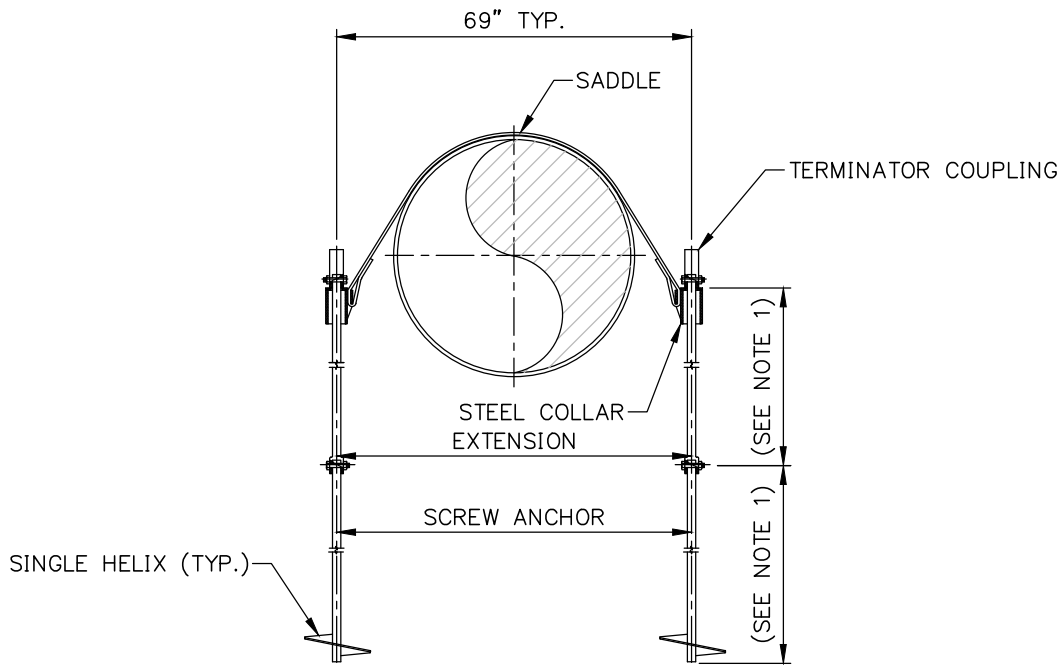
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BUOYANCY CONTROL -
BOLT-ON RIVER WEIGHTS

TYPICAL

FIGURE E-47

ALASKA LNG

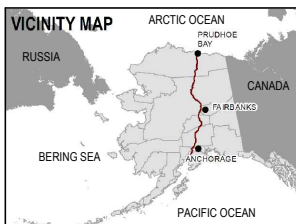


SECTION

NOTE:

1. EXTENSIONS WILL BE REQUIRED IF MINIMUM DEPTH (TBD) AND TORQUE (TBD) ARE NOT MET. IF BEDROCK ENCOUNTERED, ALTERNATE BUOYANCY CONTROL MEASURES WILL BE REQUIRED.

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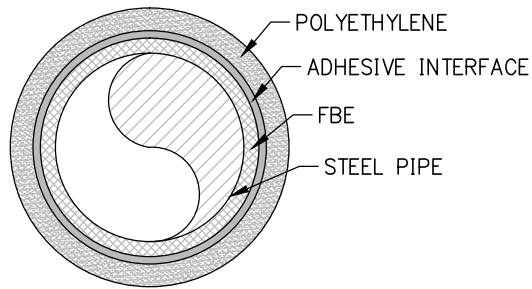
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BUOYANCY CONTROL - SCREW ANCHORS

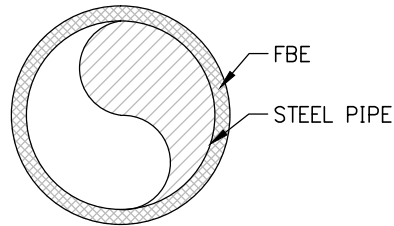
TYPICAL

FIGURE E-48

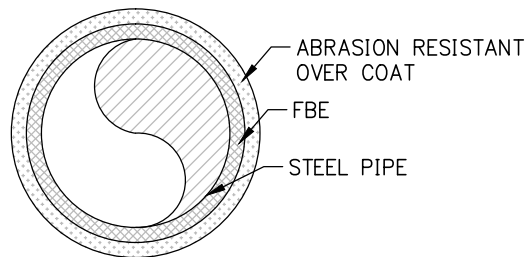
ALASKA LNG



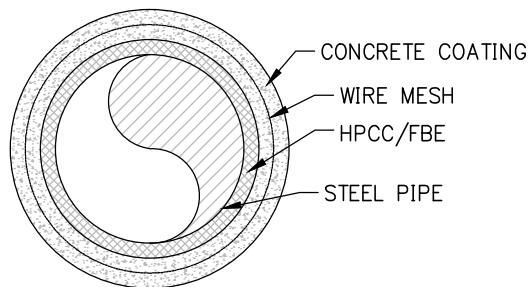
3 LAYER POLYETHYLENE



FUSION BONDED EPOXY (FBE)



ABRASION COATED FBE



CONCRETE FOR ROCK PROTECTION

NOTE:

1. COATINGS INDICATIVE, TO BE REPLACED WITH VENDOR SPECIFIC DRAWINGS.

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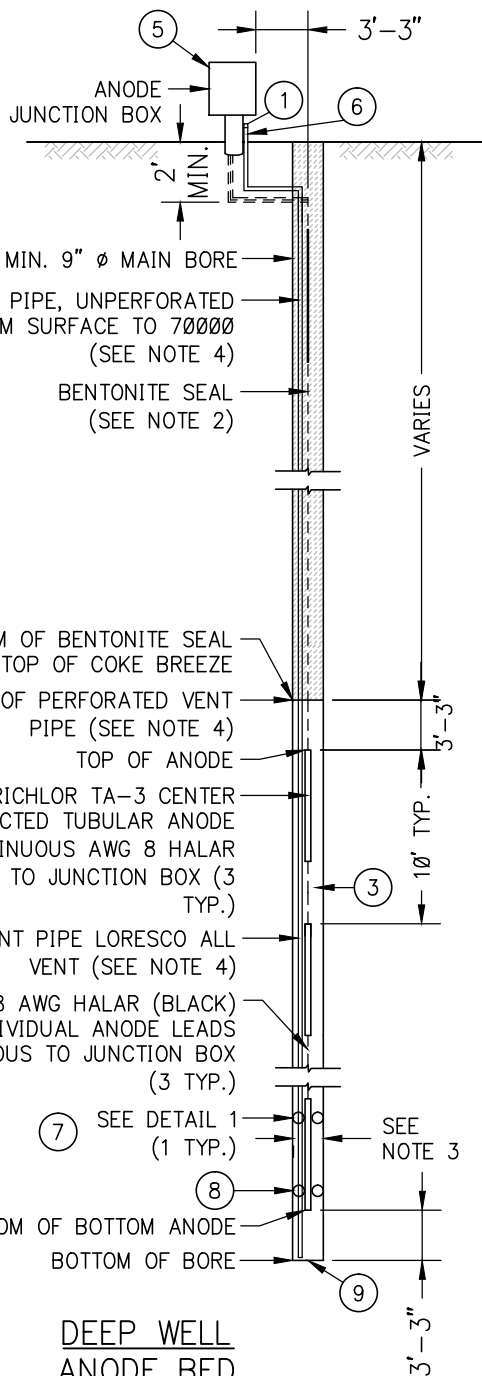
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CORROSION CONTROL -
COATINGS

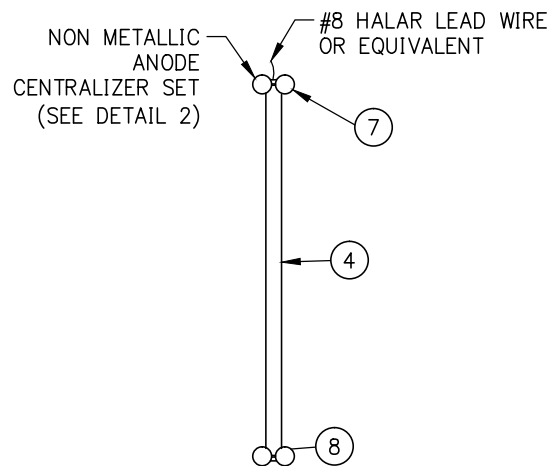
TYPICAL

FIGURE E-49

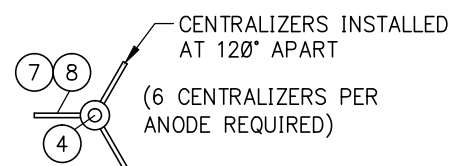
ALASKA LNG



MATERIALS LIST		
No.	DESCRIPTION	QTY
1	SCREENED CAP FOR 1" PVC VENT PIPE	1
2	1" DIAMETER CONTINUOUS VENT PIPE, PERFORATED (SEE NOTE 4)	39'-4"
3	CALCINED PETROLEUM COKE BREEZE	1100 lb
4	DURICHLOR TA-3, 2.6" x 7' (OR EQUIVALENT) CENTER CONNECTED TUBULAR SiFeCr ALLOY ANODE, c/w #8 AWG INDIVIDUAL HALAR LEAD WIRE CONTINUOUS TO JUNCTION BOX	4
5	4 CIRCUIT ANODE JUNCTION BOX	1
6	1" DIAMETER CONTINUOUS UNPERFORATED PVC VENT PIPE (SEE NOTE 4)	VARIES
7	ANODE CENTRALIZERS (TOP)	12
8	ANODE CENTRALIZERS (BOTTOM)	12
9	END CAP FOR 1" PVC VENT PIPE	1



DETAIL 1
ANODE DETAIL



DETAIL 2
ANODE CENTRALIZER

NOTES:

- ALL DIMENSIONS IN INCHES AND FEET UNLESS OTHERWISE NOTED.
- THE BENTONITE SEAL IS TO EXTEND FROM THE TOP OF THE COKE BREEZE COLUMN TO GROUND SURFACE.
- THE DIAMETER OF THE MAIN BORE SHALL BE A MINIMUM OF 9".
- VENT PIPE TO BE CONTINUOUS 1" Ø PVC PIPE WITH ONLY THE PORTION WITHIN THE ACTIVE GROUND BED TO BE PERFORATED.

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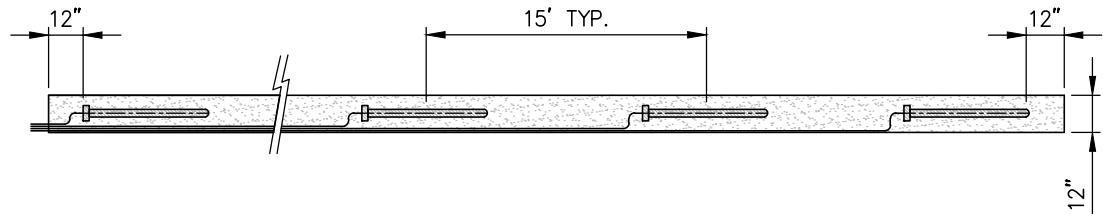
CATHODIC PROTECTION - DEEP VERTICAL ANODE BED

TYPICAL FIGURE E-50

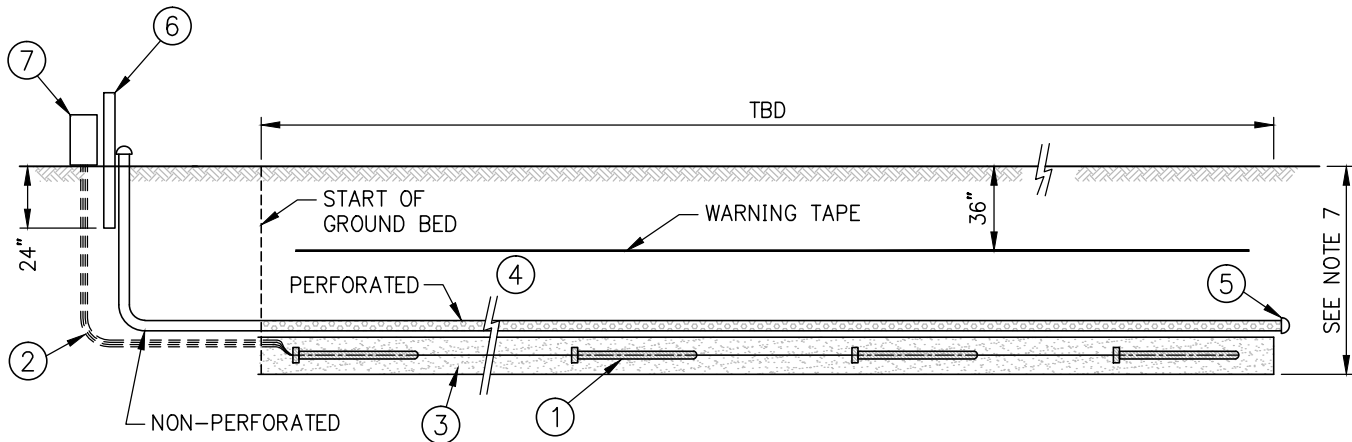
ALASKA LNG

MATERIAL LIST

No.	DESCRIPTION	QTY
1	2" x 60" SiFeCr. ANODES	TO SUIT
2	#8 HMWPE (BLACK) ANODE LEADS	TO SUIT
3	55 lb BAGS OF CALCINED PETROLEUM COKE BREEZE	TO SUIT
4	4.5" WEEPING TILE	TO SUIT
5	4.5" CAP FOR WEEPING TILE	2
6	4.5" x 4.5" x 5' TREATED CEDAR POST	1
7	B2 WIRING PEDESTAL	1



SECTIONAL PLAN VIEW

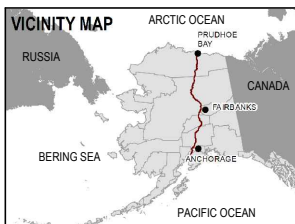


SECTIONAL ELEVATION VIEW

GENERAL INSTALLATION PROCEDURE:

1. EXCAVATE A TRENCH.
2. POUR A 4" BED OF COKE BREEZE EVENLY ALONG THE TRENCH AND TAMP TO COMPACT.
3. PLACE ANODES AT THE NOTED SPACING IN THE CENTRE OF THE COKE BREEZE BED.
4. POUR COKE BREEZE BACKFILL OVER THE ANODES TO ACHIEVE A TRENCH COVER 4" ABOVE THE ANODES AND TAMP TO COMPACT.
5. PLACE THE WEEPING TILE SYSTEM IN THE TRENCH ABOVE THE COKE BREEZE.
6. LAY WARNING TAPE AS SHOWN.
7. BURIAL DEPTH WILL VARY WITH GROUND CONDITIONS.

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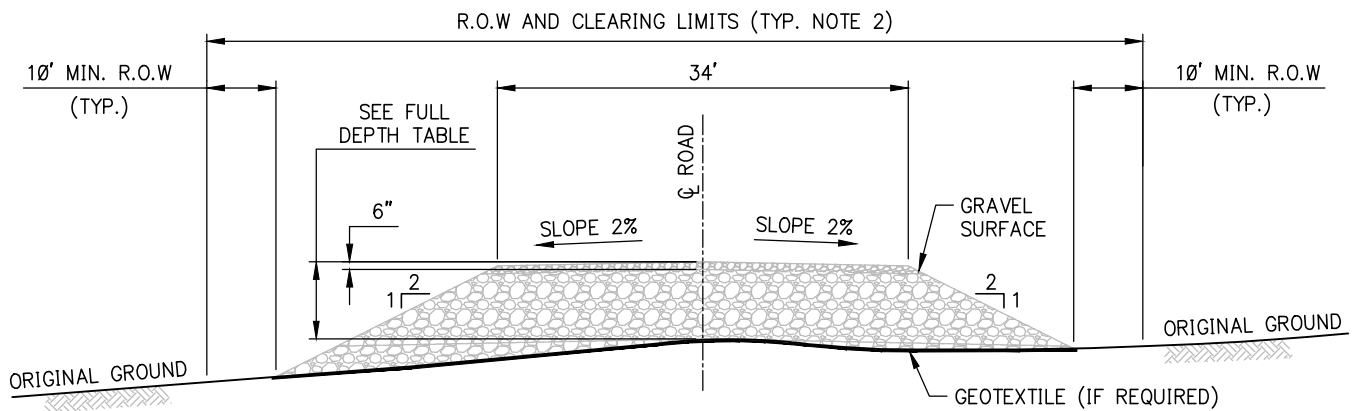
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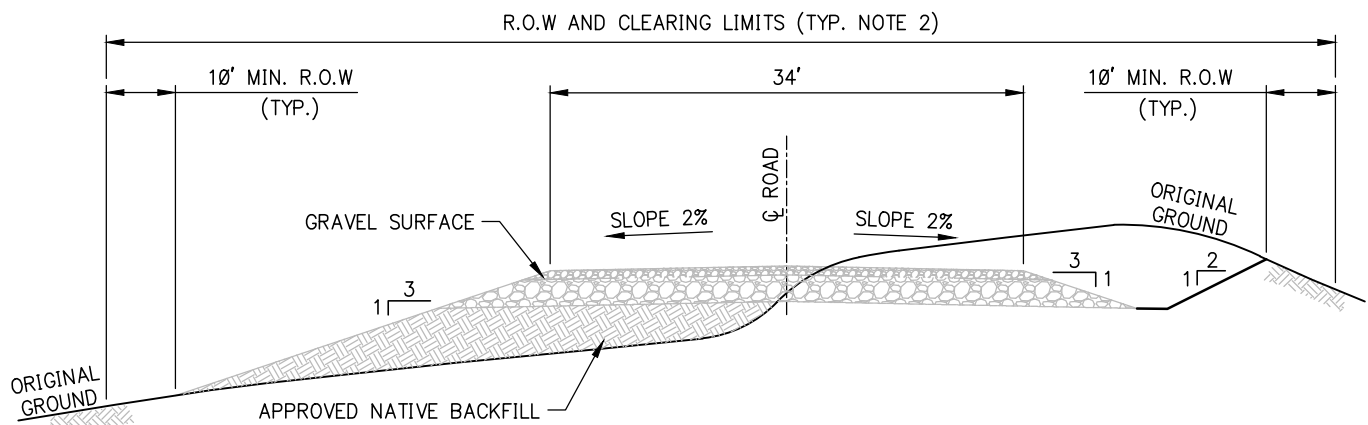
CATHODIC PROTECTION - HORIZONTAL ANODE BED

TYPICAL FIGURE E-51

ALASKA LNG



TYPICAL CROSS – SECTION ALL WEATHER ROAD FOR PERMAFROST AREA



TYPICAL CROSS-SECTION ALL WEATHER ROAD FOR NON-PERMAFROST AREA

DESIGN STANDARDS CLASS III ALL WEATHER ROAD

1. MAXIMUM GRADE: SUSTAINED – 6%
PITCH – 8%
2. RIGHT-OF-WAY WIDTH 75' MIN. TO 100' MAX, DEPENDING ON CROSS SLOPE, ROAD DEPTH AND SOIL CONDITIONS.
3. SEE TABLE 1 FOR TYPICAL SUBGRADE HEIGHT.

TABLE 1
FULL DEPTH

FROM – TO	DEPTH OF FILL
MP 0–193	5'
MP 193–400	4'
MP 400–572	3'
MP 572–807	2'

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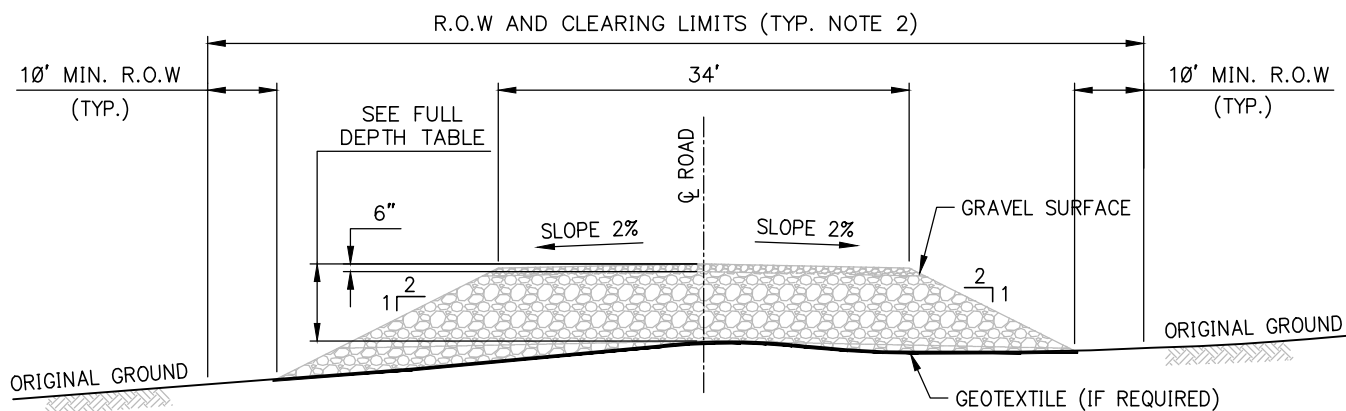
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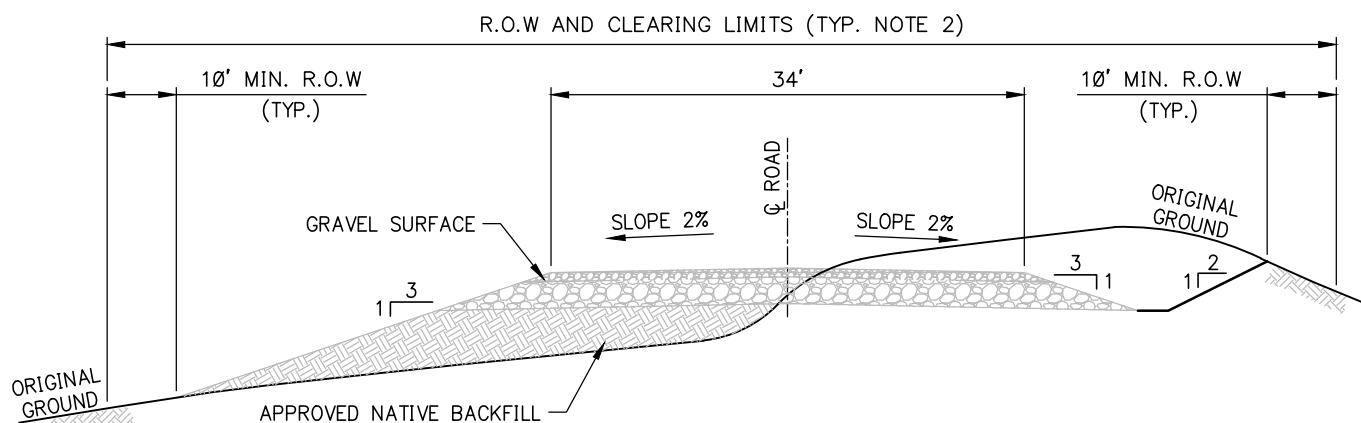
**ACCESS ROADS -
PERMANENT ROAD
SECTIONS**

TYPICAL FIGURE E-52

ALASKA LNG



TYPICAL CROSS – SECTION ALL WEATHER ROAD FOR PERMAFROST AREA



TYPICAL CROSS-SECTION ALL WEATHER ROAD FOR NON-PERMAFROST AREA

TABLE 1
FULL DEPTH

FROM – TO	DEPTH OF FILL
MP 0–141	3'
MP 141–171	2'
MP 171–490	3'
MP 490–522	2'
MP 522–572	3'
MP 572–807	2'

DESIGN STANDARDS CLASS III ALL WEATHER ROAD

1. MAXIMUM GRADE: SUSTAINED – 6%
PITCH – 8%
2. RIGHT-OF-WAY WIDTH 75' MIN. TO 100' MAX, DEPENDING ON CROSS SLOPE, ROAD DEPTH AND SOIL CONDITIONS.
3. SEE TABLE 1 FOR TYPICAL SUBGRADE HEIGHT.

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SUBJECT TO CHANGE.
ALL DRAWINGS AND
DIMENSIONS TYPICAL



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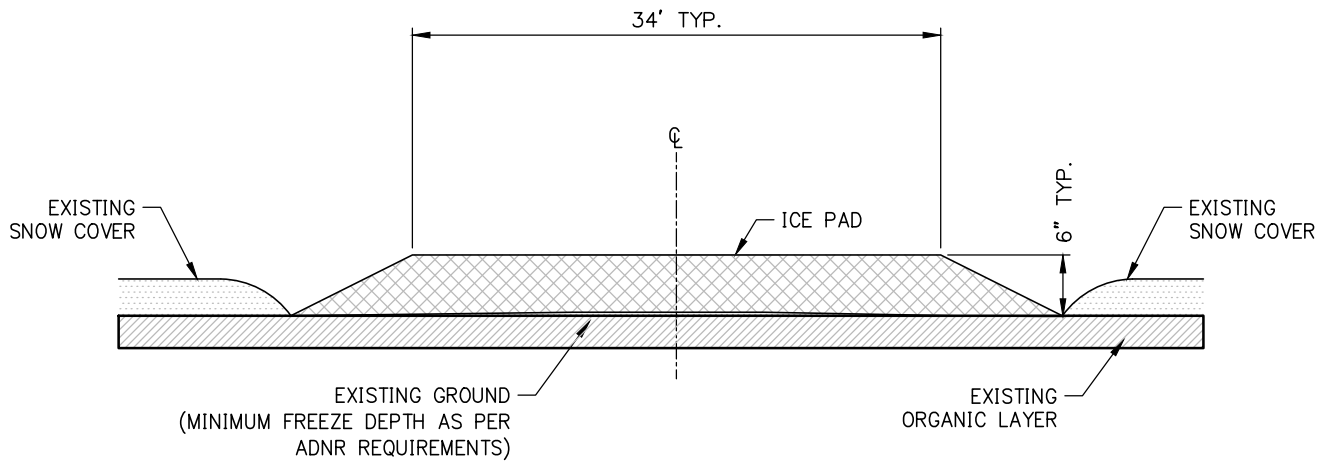
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**ACCESS ROADS -
TEMPORARY ROAD
SECTIONS**

TYPICAL FIGURE E-53

ALASKA LNG



SECTION

NOTE:

1. RIGHT-OF-WAY 70 FEET.

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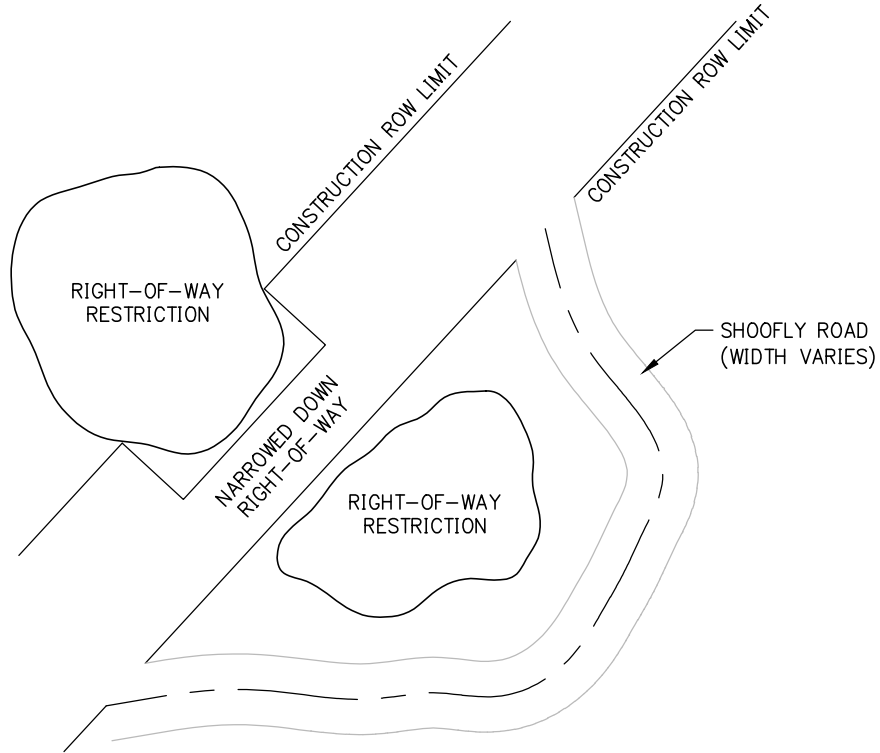
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ACCESS ROADS - TEMPORARY SNOW/ICE ROAD SECTIONS

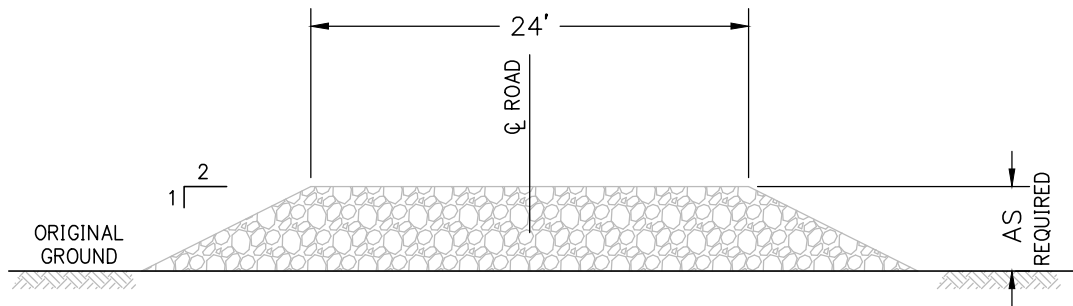
TYPICAL

FIGURE E-54

ALASKA LNG



PLAN



CROSS-SECTION

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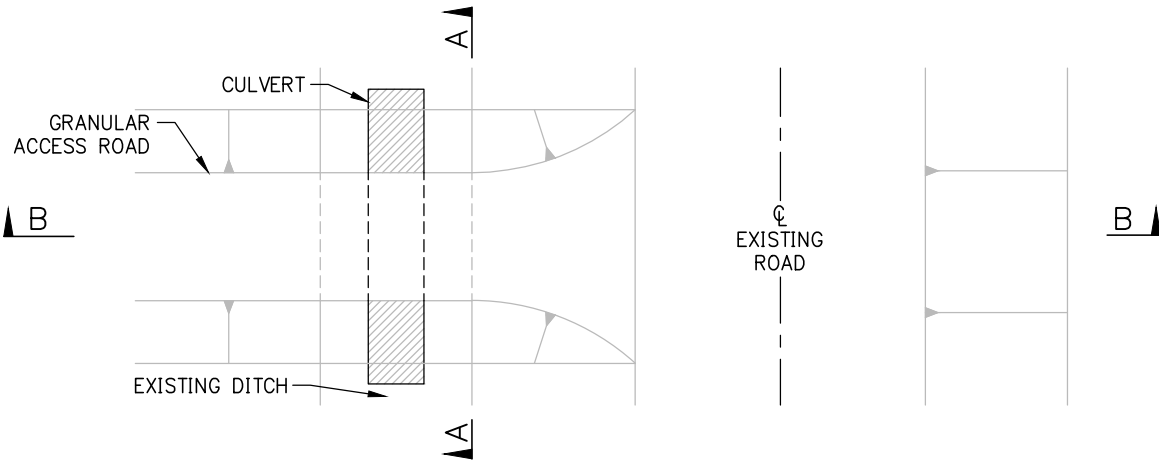
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ACCESS ROADS -
TEMPORARY SHOOFLY
ROAD

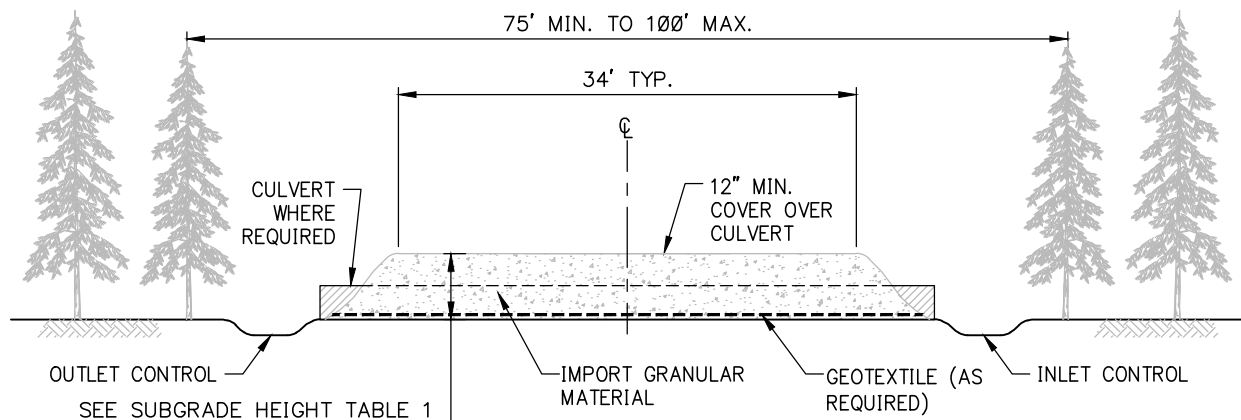
TYPICAL

FIGURE E-55

ALASKA LNG



PLAN - EXISTING ROAD PLAN



SECTION 'A-A'

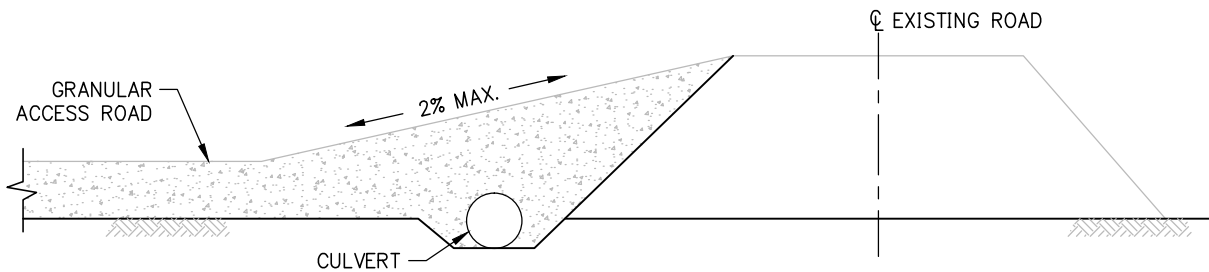


TABLE 1
SUBGRADE HEIGHT

FROM - TO	DEPTH OF FILL
MP 0-141	3'
MP 141-171	2'
MP 171-490	3'
MP 490-522	2'
MP 522-572	3'
MP 572-807	2'

SECTION 'B-B'
EXISTING ROAD RAMP

NOTES:

1. ROAD RAMP SHALL BE IN ACCORDANCE WITH ADOT & PF REQUIREMENTS.

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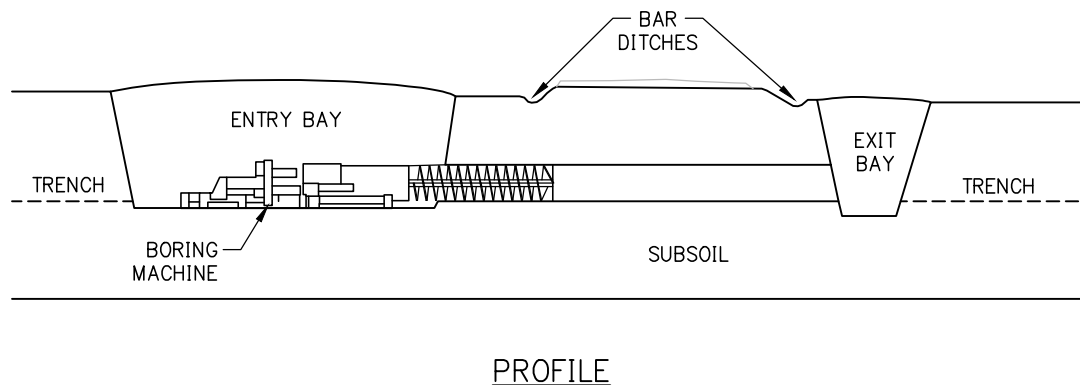
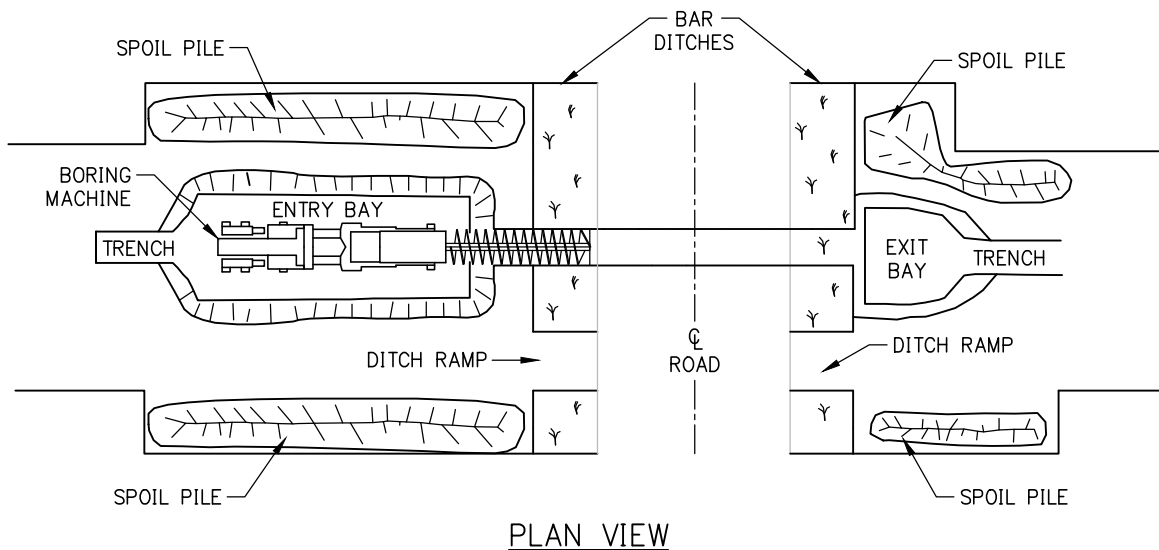
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ACCESS ROADS - RAMP
OFF EXISTING ROAD

TYPICAL FIGURE E-56

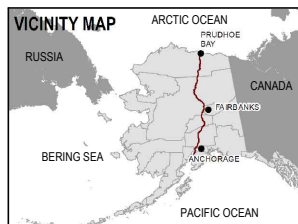
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NOTES:

1. ADDITIONAL TEMPORARY WORKSPACE WILL BE ACQUIRED PRIOR TO CONSTRUCTION. SEE FIGURE E-42.
2. SHORING TO BE PROVIDED IF REQUIRED.

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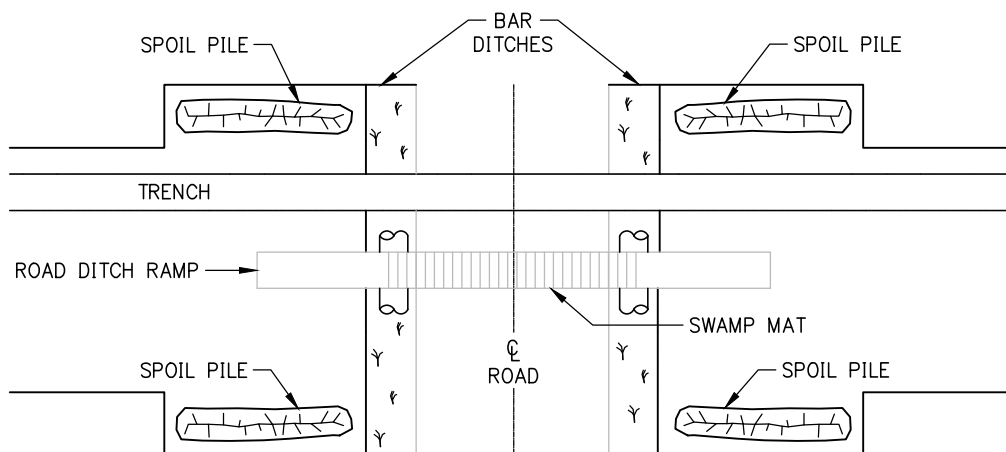
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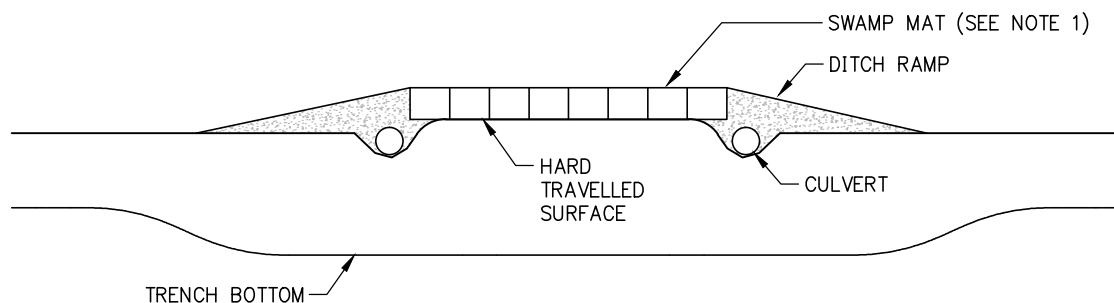
CONSTRUCTION - HORIZONTAL BORING/DRILLING ROADS

TYPICAL FIGURE E-57

ALASKA LNG



PLAN VIEW



PROFILE

NOTES:

1. SWAMP MATS MAY BE REQUIRED ACROSS ROAD TO PROTECT HARD TRAVELED SURFACE FROM EQUIPMENT, DURING INSTALLATION.
2. TRENCH SPOIL TO BE REPLACED IN 6" LIFTS AND COMPACTED TO 95% OF THE MAXIMUM PROCTOR DRY DENSITY.
3. ORIGINAL HARD TRAVELED SURFACE TO BE RESTORED TO ORIGINAL CONDITION FOLLOWING COMPLETION OF CROSSING INSTALLATION.
4. SEE FIGURE E-99 FOR ADDITIONAL DESIGN DETAILS.
5. SEE FIGURE E-42 FOR ATWS LIMITS.

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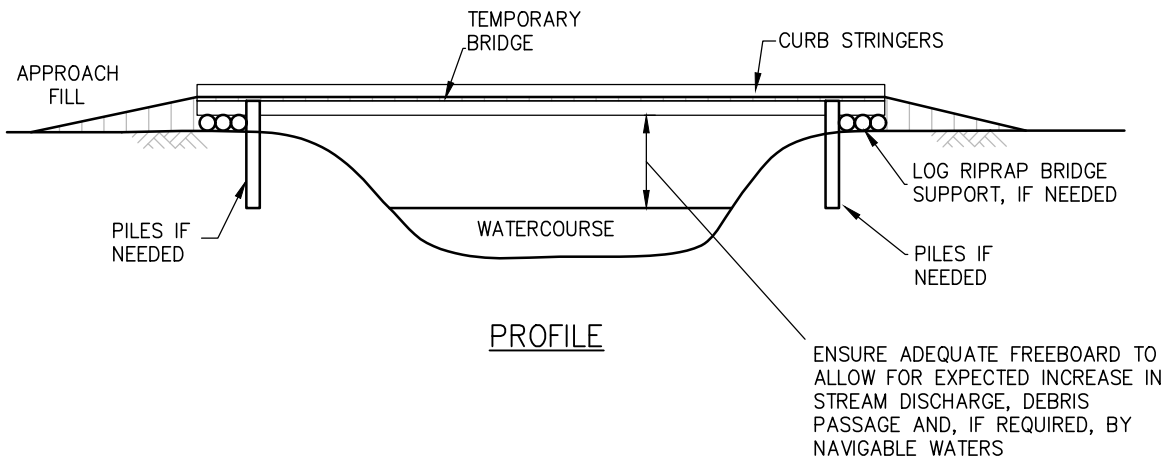
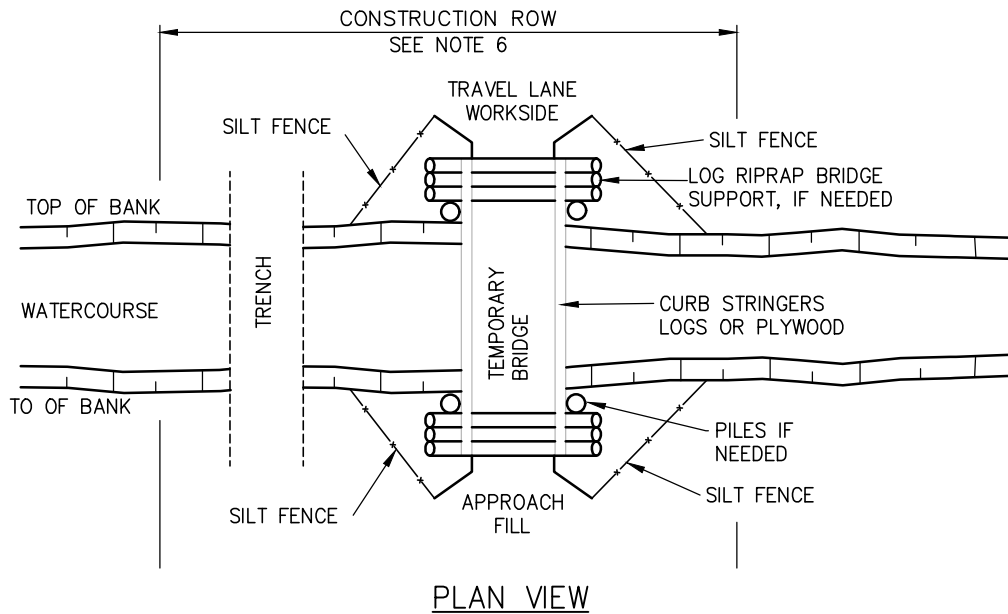
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CONSTRUCTION -
OPEN-CUT ROADS

TYPICAL

FIGURE E-58

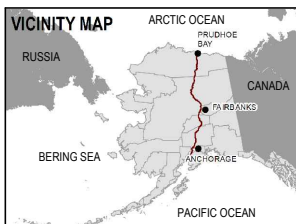
ALASKA LNG



NOTES:

1. TEMPORARY BRIDGE WILL BE USED AT SENSITIVE WATERCOURSES OR WATERCOURSES WITH UNSTABLE BED OR BANKS.
2. TEMPORARY BRIDGE CROSSING SHALL BE LIMITED TO WATERCOURSES LESS THEN 100' IN WIDTH.
3. APPROACH FILLS SHALL BE USED TO AVOID CUTTING BANKS.
4. CURB STRINGERS OR PLYWOOD SHALL BE INSTALLED TO PREVENT FILL MATERIAL SPILL INTO THE WATERCOURSE.
5. BRIDGE TO BE REMOVED IMMEDIATELY AFTER USE.
6. SEE FIGURES E-35 THROUGH E-41 FOR CONSTRUCTION ROW WIDTH.

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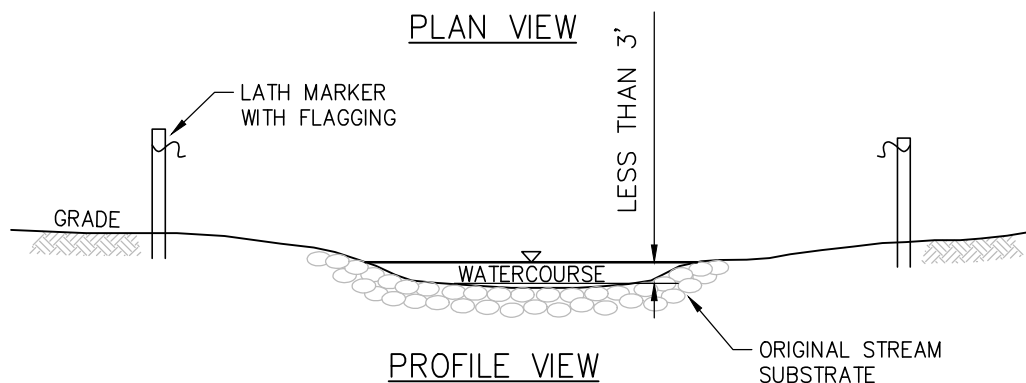
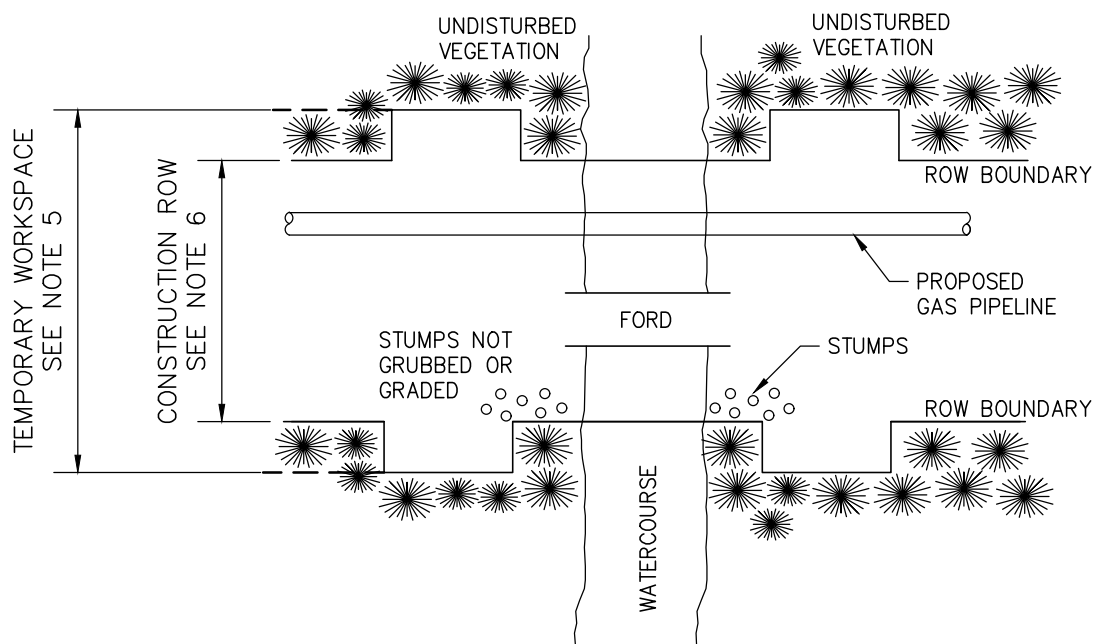
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EQUIPMENT CROSSING - TEMPORAY BRIDGE

TYPICAL FIGURE E-59

ALASKA LNG



NOTES:

1. USED FOR VEHICLE TRANSPORT ACROSS SHALLOW AND NARROW WATERCOURSES WITH GRANULAR BEDS AND STABLE BANKS.
2. FORD WILL NOT BE USED DURING FISH SPAWNING, INCUBATION OR MIGRATION PERIODS.
3. BANKS AND APPROACHES CAN BE STABILIZED BY A GEOTEXTILE.
4. BOUNDARIES OF FORD SHALL BE MARKED.
5. SEE FIGURE E-43 FOR ATWS DIMENSIONS.
6. SEE FIGURES E-35 THROUGH E-41 FOR CONSTRUCTION ROW WIDTH.

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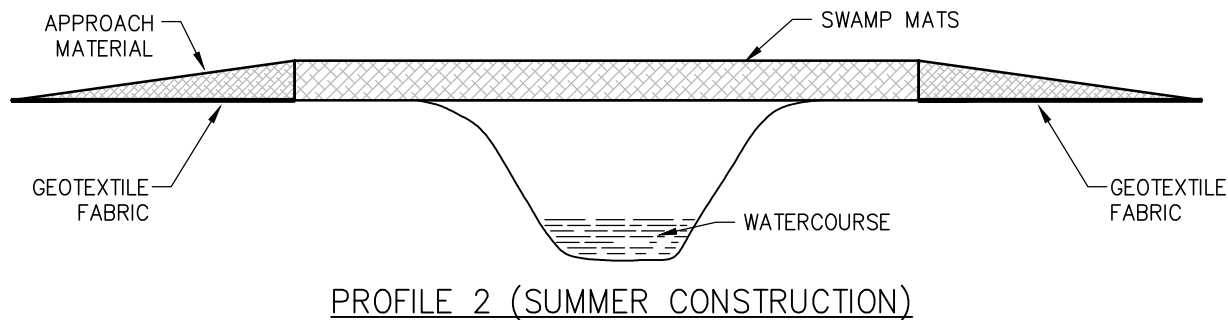
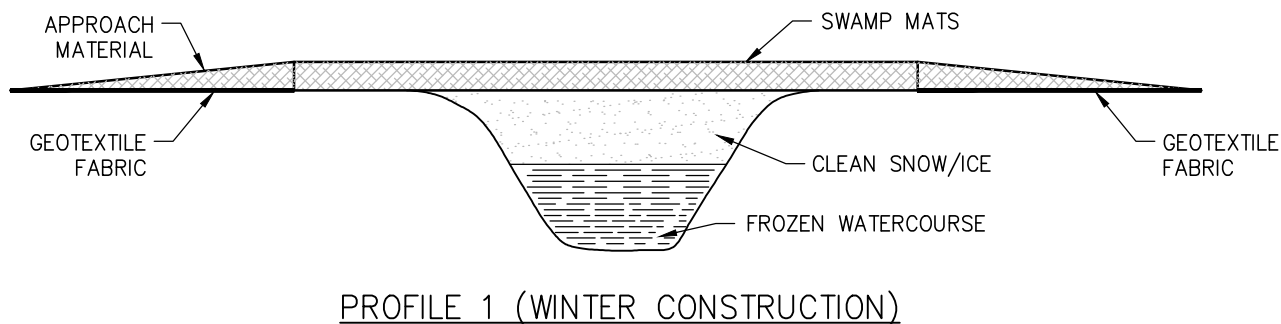
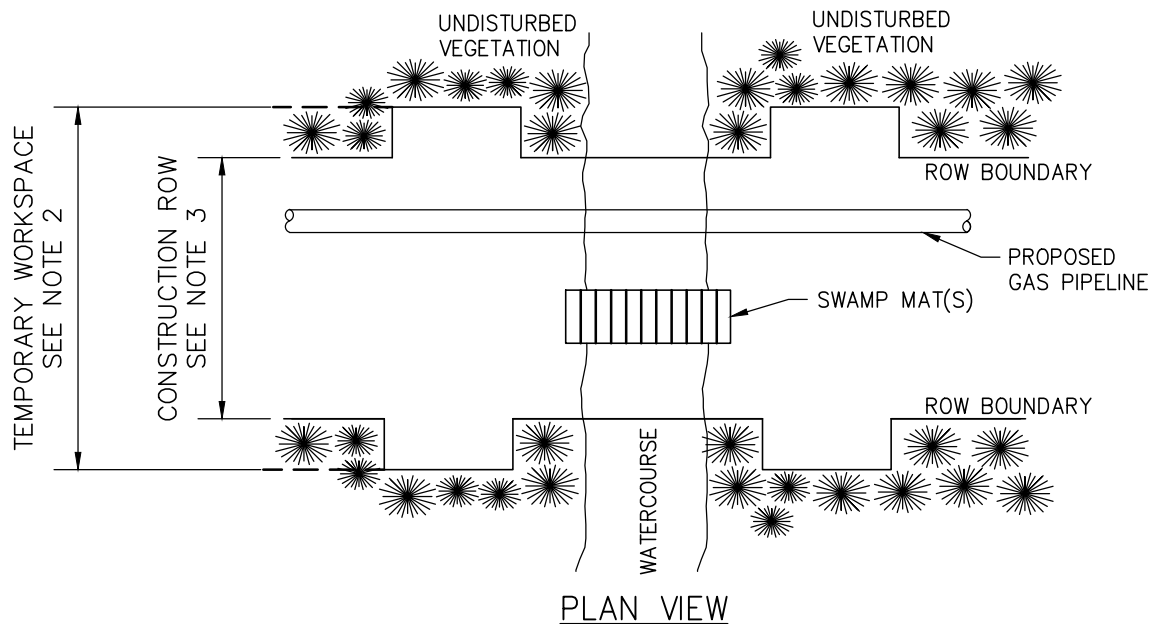
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CONSTRUCTION - EQUIPMENT CROSSING - FORD

TYPICAL FIGURE E-60

ALASKA LNG



NOTES:

1. SWAMP MATS WILL BE USED TO PROVIDE VEHICULAR ACCESS ACROSS WATERCOURSE IN BOTH FROZEN AND UN-FROZEN CONDITIONS.
2. SEE FIGURE E-43 FOR ATWS DIMENSIONS.
3. SEE FIGURES E-35 THROUGH E-41 FOR CONSTRUCTION ROW WIDTH.

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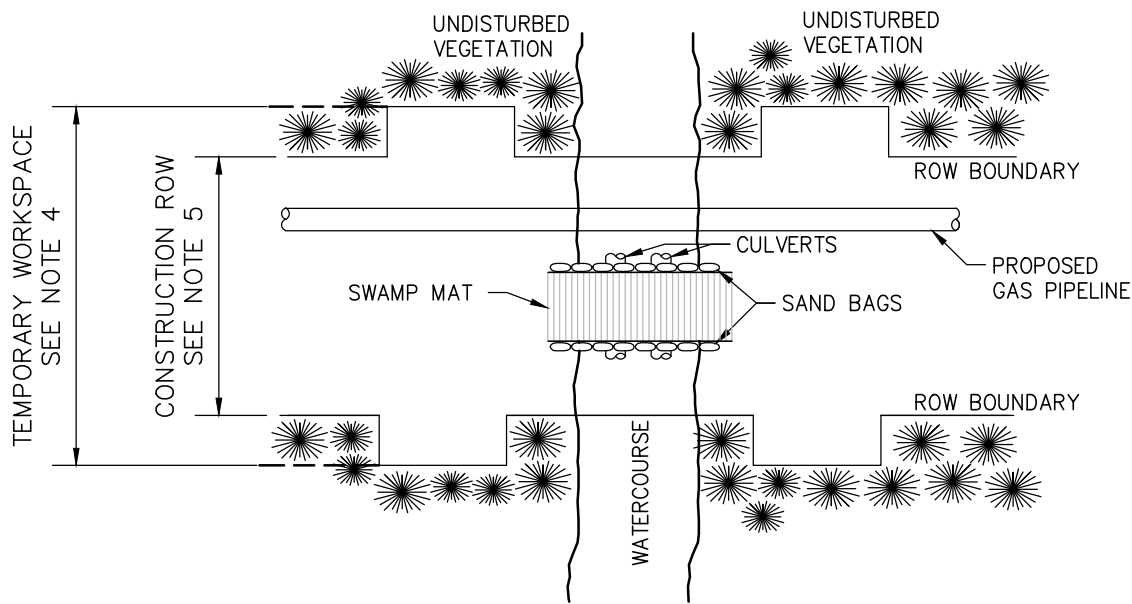
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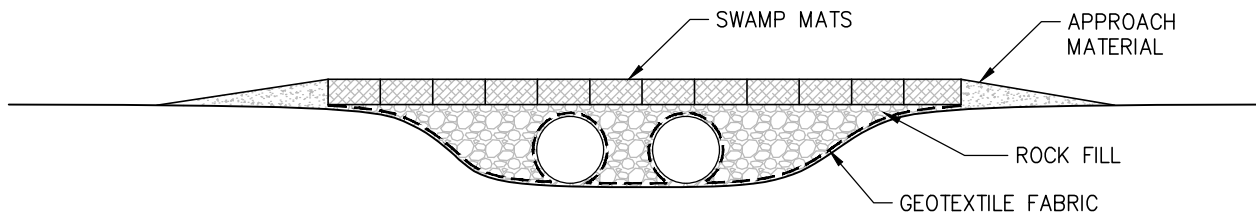
CONSTRUCTION - EQUIPMENT CROSSING MAT BRIDGE

TYPICAL FIGURE E-61

ALASKA LNG



PLAN VIEW



PROFILE VIEW

NOTES:

1. CULVERTS WILL BE INSTALLED AS REQUIRED TO PROTECT IT FROM EROSION AND BE SUFFICIENT SIZE AND NUMBER TO HANDLE ONE IN TWENTY YEAR STREAM FLOW. CULVERTS WILL BE SUFFICIENT WALL THICKNESS AND GRADE TO HANDLE THE CONSTRUCTION EQUIPMENT THAT WILL BE OPERATED DURING THE CROSSING CONSTRUCTION.
2. RAMPS WILL BE SUFFICIENT DEPTH TO PREVENT COLLAPSE OF THE CULVERT.
3. RAMPS WILL BE CONSTRUCTED FROM COMPANY APPROVED LOCAL MATERIAL SUBSOIL FREE OF ORGANICS OR OTHER DELETERIOUS MATERIAL.
4. SEE FIGURE E-43 FOR ATWS DIMENSIONS.
5. SEE FIGURES E-35 THROUGH E-41 FOR CONSTRUCTION ROW WIDTH.

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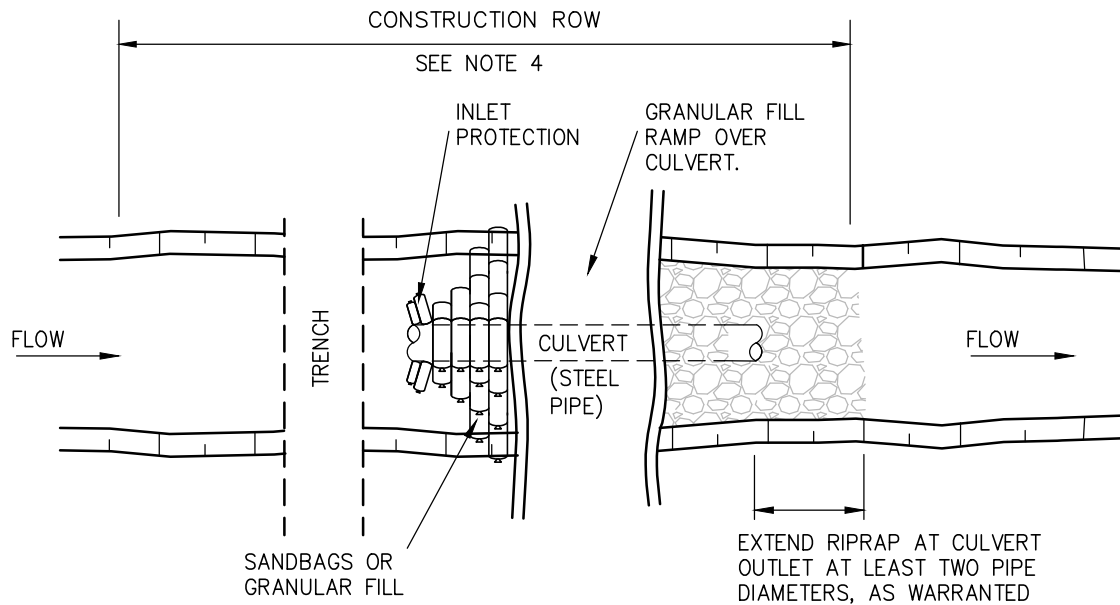
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CONSTRUCTION -
EQUIPMENT CROSSING - MAT
ROCK/CULVERT BRIDGE

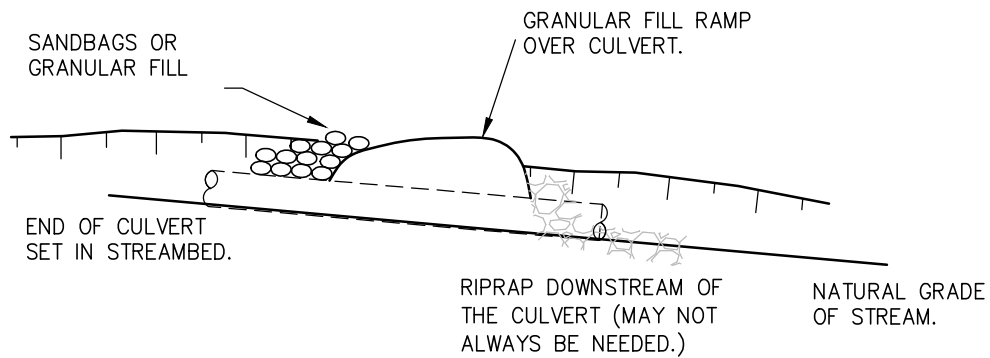
TYPICAL

FIGURE E-62

ALASKA LNG



PLAN VIEW

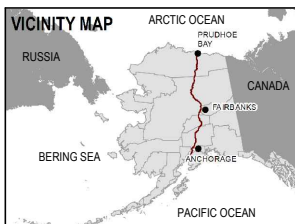


PROFILE

NOTES:

1. ROCK/CULVERT BRIDGE TO BE INSTALLED AT NARROW WATERCOURSES WITH LITTLE OR NO FLOW.
2. CULVERTS WILL HANDLE UP TO 150% OF THE MAXIMUM ANTICIPATED FLOW.
3. BRIDGE SHALL BE REMOVED AFTER USE.
4. SEE FIGURES E-35 THROUGH E-41 FOR CONSTRUCTION ROW WIDTH.

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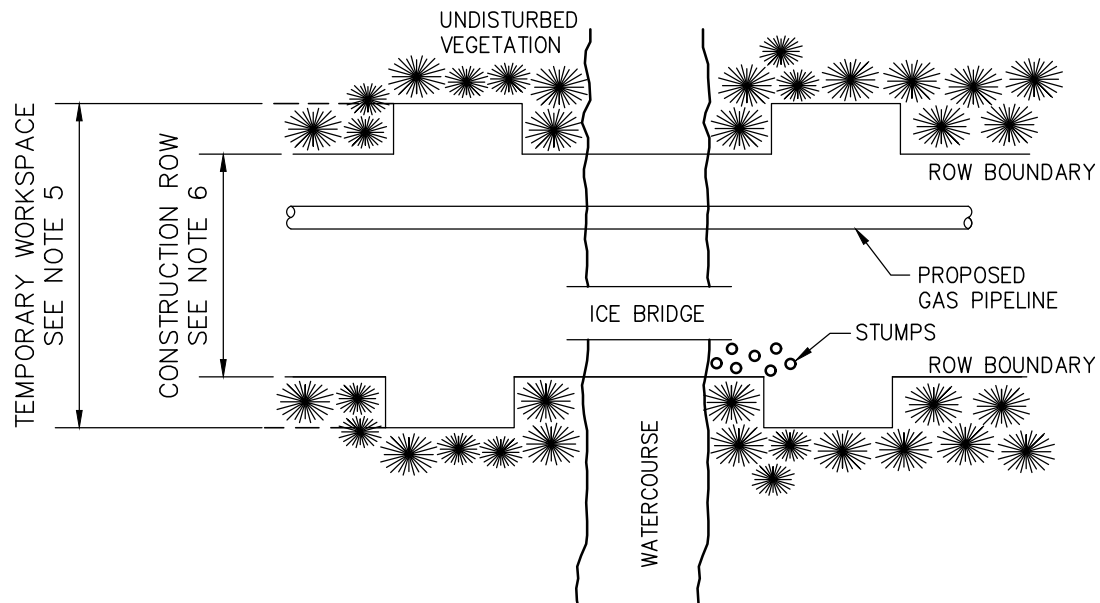
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CONSTRUCTION -
EQUIPMENT CROSSING
ROCK/CULVERT BRIDGE

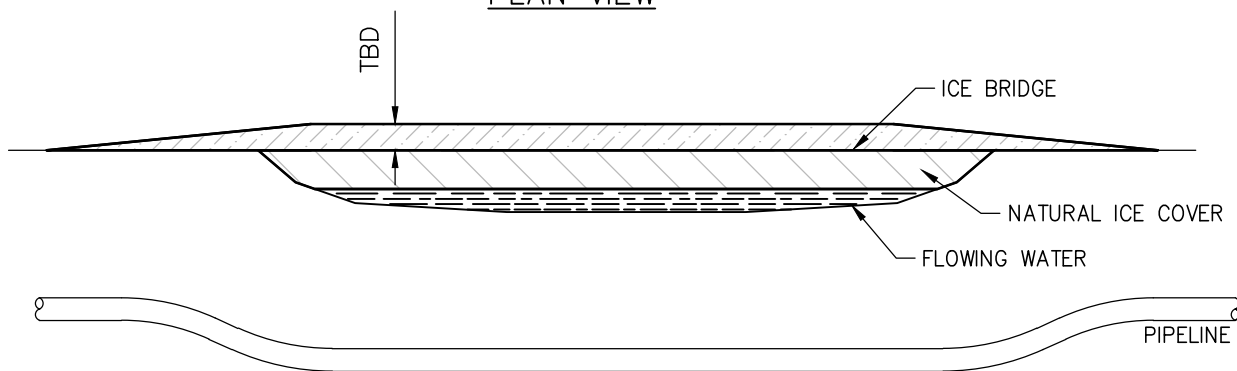
TYPICAL

FIGURE E-63

ALASKA LNG



PLAN VIEW

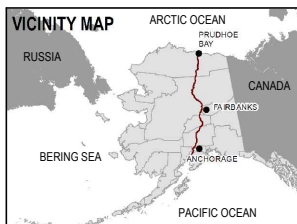


PROFILE VIEW

NOTES:

1. SAFE ICE THICKNESS SHALL BE MONITORED AND MAINTAINED DURING USE.
2. SNOW AND ICE APPROACHES SHALL BE USED INSTEAD OF CUTTING BANKS.
3. BRIDGE SHALL NOT IMPEDE FLOW.
4. V-NOTCH IN THE CENTRE OF THE ICE BRIDGE SHALL BE CREATED AFTER USE.
5. SEE FIGURE E-43 FOR ATWS DIMENSIONS.
6. SEE FIGURES E-35 THROUGH E-41 FOR CONSTRUCTION ROW WIDTH.

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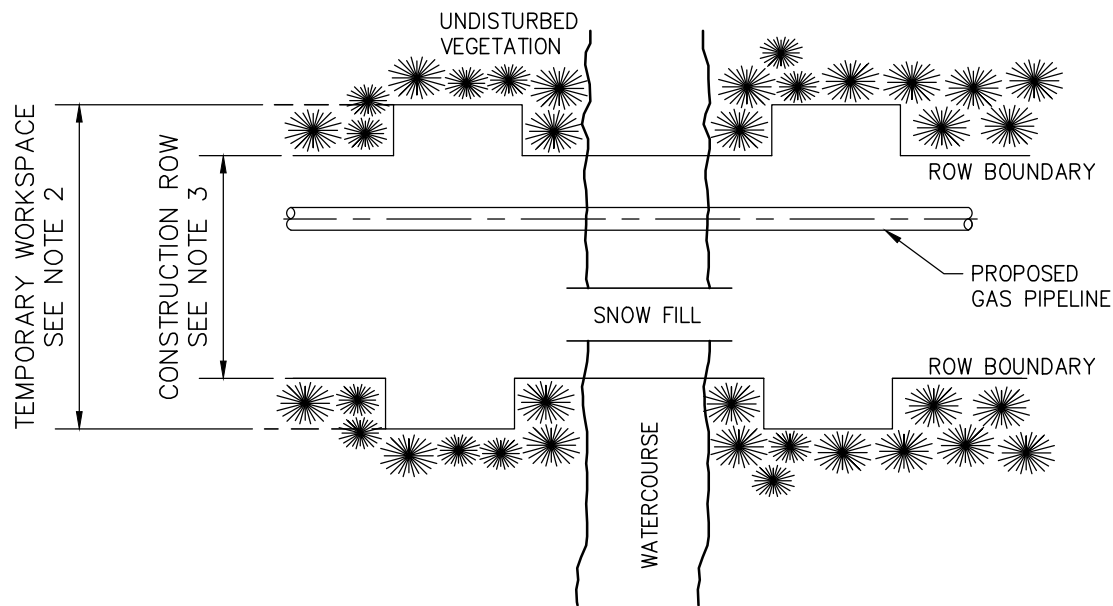
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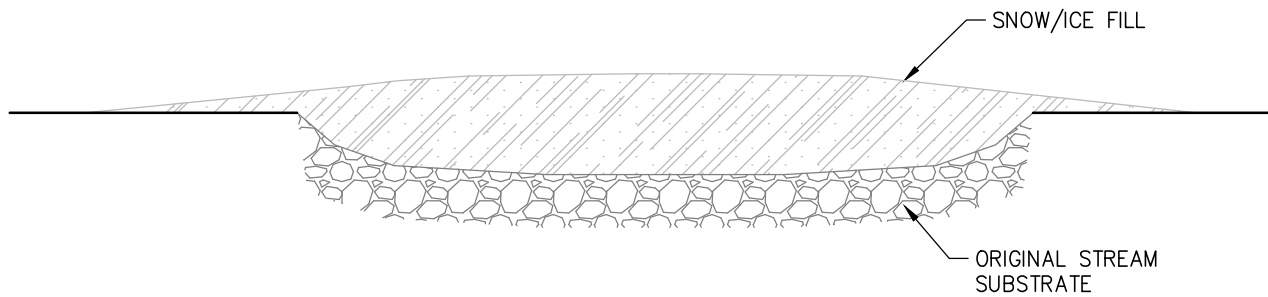
CONSTRUCTION -
EQUIPMENT CROSSING - ICE
BRIDGE

TYPICAL FIGURE E-64

ALASKA LNG



PLAN VIEW

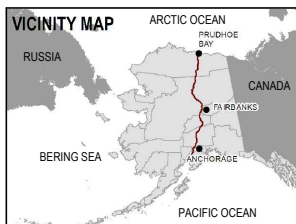


PROFILE VIEW

NOTES:

1. SNOW FILLS WILL BE USED TO PROVIDE VEHICULAR ACCESS ACROSS WATERCOURSE WITH LITTLE OR NO FLOW.
2. SEE FIGURE E-43 FOR ATWS DIMENSIONS.
3. SEE FIGURES E-35 THROUGH E-41 FOR CONSTRUCTION ROW WIDTH.

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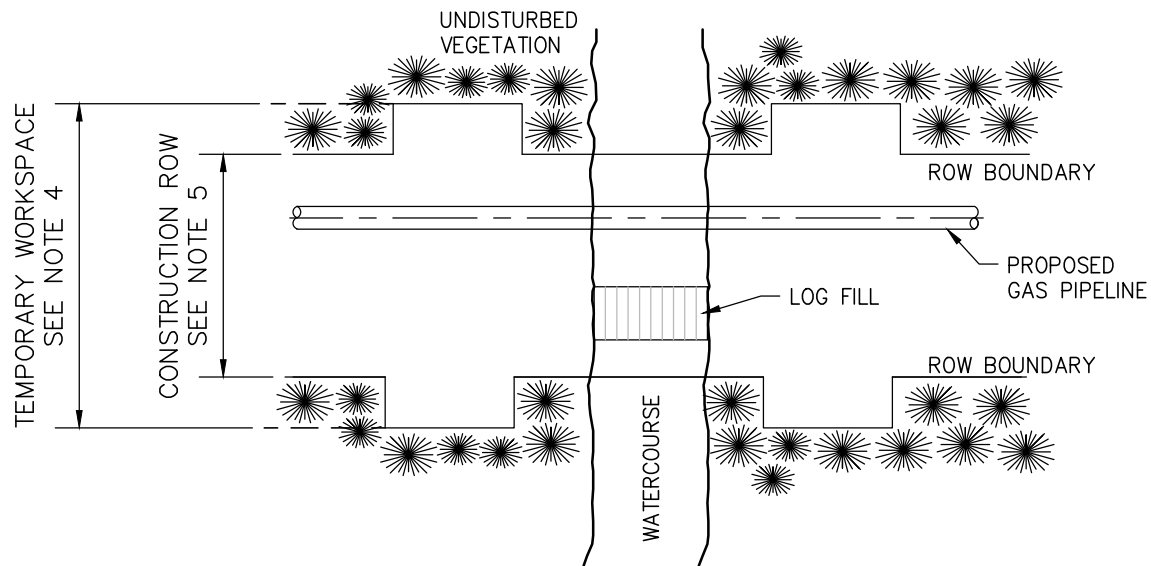
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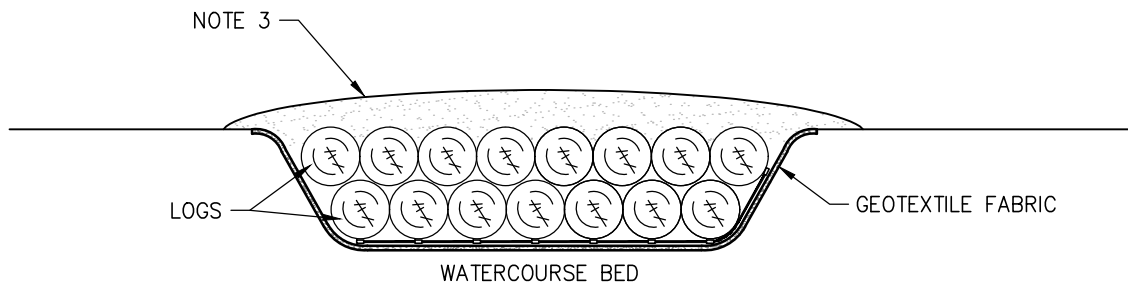
CONSTRUCTION - EQUIPMENT
CROSSING - CLEAN SNOW FILL
WITH ICE COVER

TYPICAL FIGURE E-65

ALASKA LNG



PLAN VIEW



PROFILE

NOTES:

1. LOG FILL WILL BE USED TO PROVIDE VEHICULAR ACCESS ACROSS WATERCOURSES WITH LITTLE OR NO FLOW.
2. THE LOGS WILL BE BUNDLED WITH CABLE TO FACILITATE EASY REMOVAL AND PLACED ONTO GEOTEXTILE FABRIC IN THE CHANNEL. THE GEOTEXTILE FABRIC IS THEN WRAPPED AROUND THE LOG FILL.
3. APPROVED MATERIAL (E.G. SWAMP MAT, SNOW, SOIL) IS PLACED OVER THE LOG FILL TO PROVIDE STABLE DRIVING SURFACE.
4. SEE FIGURE E-43 FOR ATWS DIMENSIONS.
5. SEE FIGURES E-35 THROUGH E-41 FOR CONSTRUCTION ROW WIDTH.

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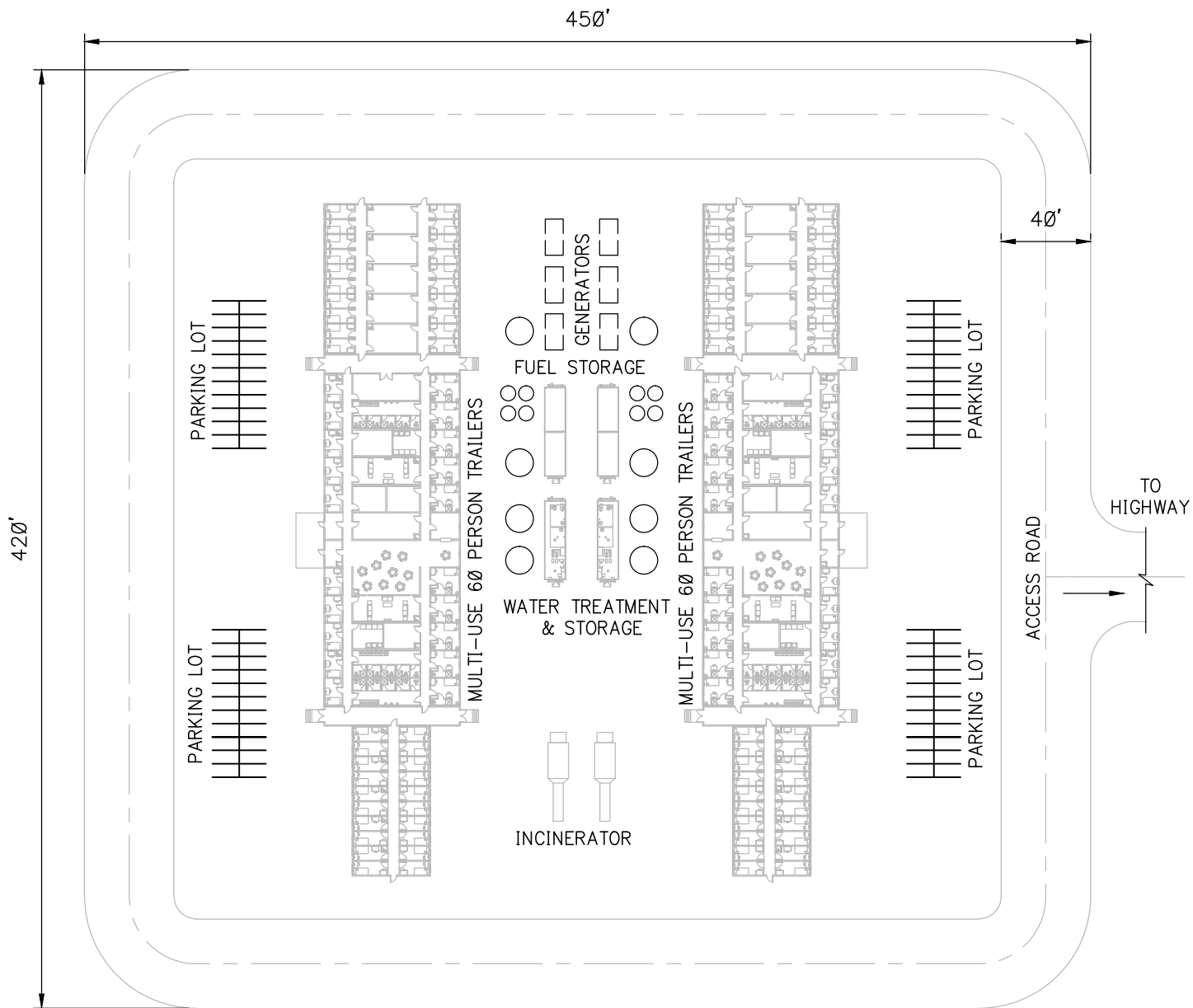
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CONSTRUCTION -
EQUIPMENT
CROSSING - LOG FILL

TYPICAL

FIGURE E-66

ALASKA LNG



NOTES:

1. INCINERATOR TO BE DOWNWIND OF PREVAILING WINDS.
2. ACTUAL LAYOUT CONFIGURATION MAY CHANGE DEPENDING ON SITE CONDITIONS, BUT OVERALL ACREAGE WILL NOT INCREASE.

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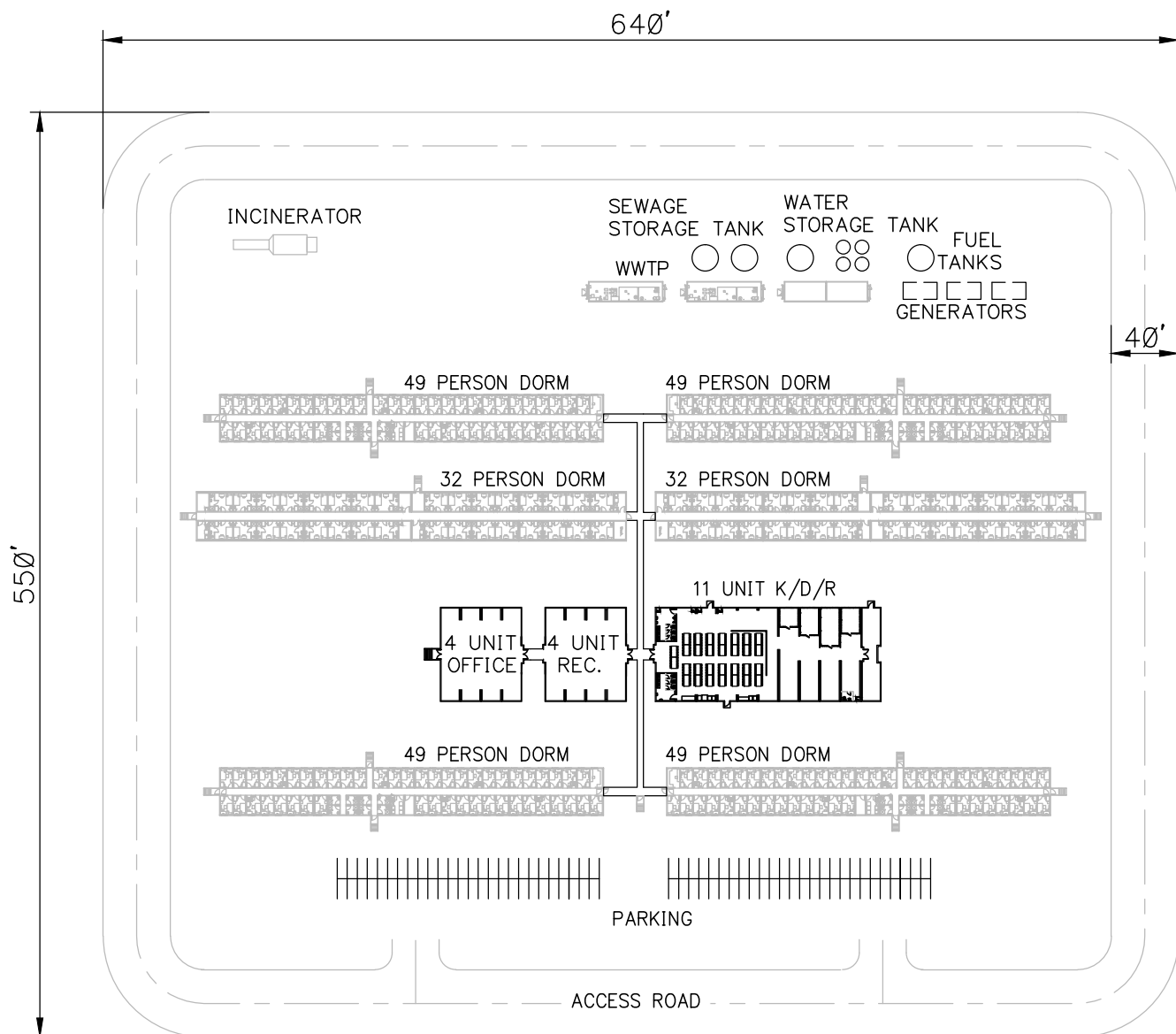
PREPARED BY:	EXP ENERGY SERVICES INC.
SCALE:	N.T.S.
DATE:	2017-04-14
SHEET:	1 OF 1

120 BED PIONEER CAMPS
(SKID MOUNTED) - 4.3 ACRES

TYPICAL

FIGURE E-67

ALASKA LNG



NOTES:

1. INCINERATOR TO BE DOWNWIND OF PREVAILING WINDS.
2. ACTUAL LAYOUT CONFIGURATION MAY CHANGE DEPENDING ON SITE CONDITIONS, BUT OVERALL ACREAGE WILL NOT INCREASE.

PRELIMINARY &
SUBJECT TO CHANGE.
ALL DRAWINGS AND
DIMENSIONS TYPICAL



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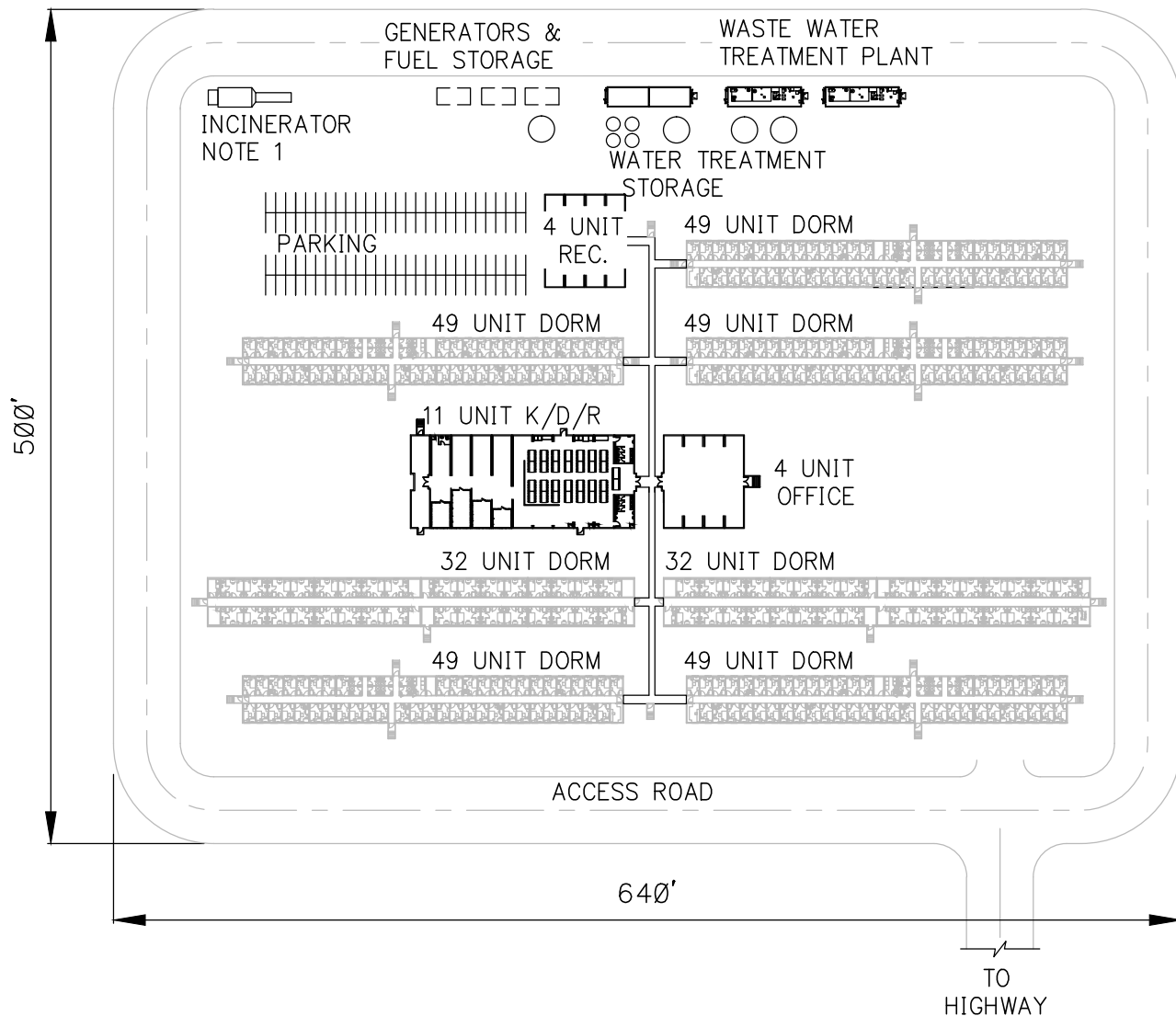
PREPARED BY:	EXP ENERGY SERVICES INC.
SCALE:	N.T.S.
DATE:	2017-04-14
SHEET:	1 OF 1

**240 PERSON CAMP -
8 ACRES**

TYPICAL

FIGURE E-68

ALASKA LNG



NOTES:

1. INCINERATOR TO BE DOWNWIND OF PREVAILING WINDS.
2. ACTUAL LAYOUT CONFIGURATION MAY CHANGE DEPENDING ON SITE CONDITIONS, BUT OVERALL ACREAGE WILL NOT INCREASE.
3. HELIPAD TO BE LOCATED WITHIN THIS FOOTPRINT BUT LOCATION IS DEPENDANT UPON SITE CONDITIONS.

PRELIMINARY &
SUBJECT TO CHANGE.
ALL DRAWINGS AND
DIMENSIONS TYPICAL



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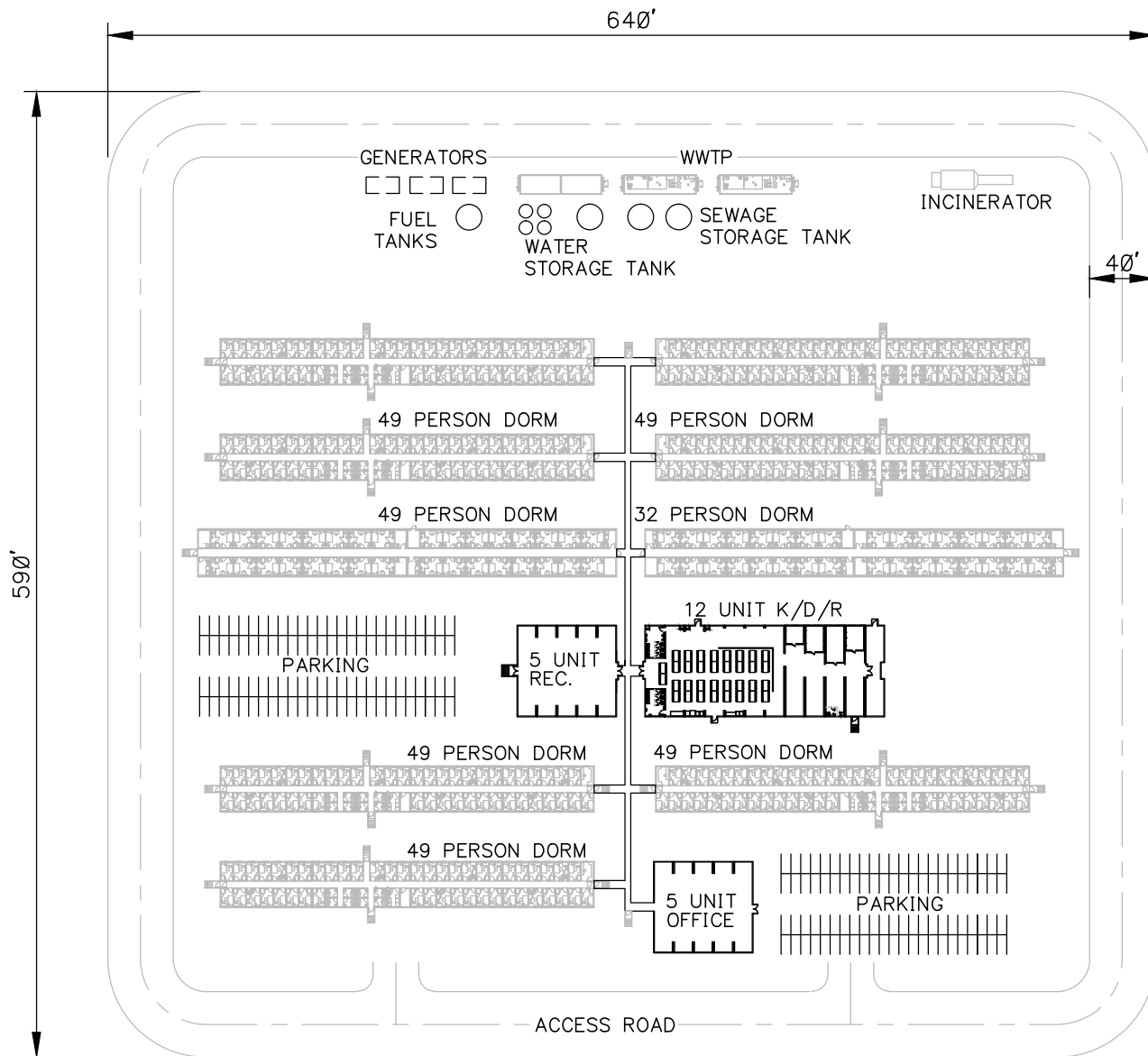
PREPARED BY:	EXP ENERGY SERVICES INC.
SCALE:	N.T.S.
DATE:	2017-04-14
SHEET:	1 OF 1

300 PERSON CAMP -
7.4 ACRES

TYPICAL

FIGURE E-69

ALASKA LNG



NOTES:

1. INCINERATOR TO BE DOWNWIND OF PREVAILING WINDS.
2. ACTUAL LAYOUT CONFIGURATION MAY CHANGE DEPENDING ON SITE CONDITIONS, BUT OVERALL ACREAGE WILL NOT INCREASE.

PRELIMINARY &
SUBJECT TO CHANGE.
ALL DRAWINGS AND
DIMENSIONS TYPICAL



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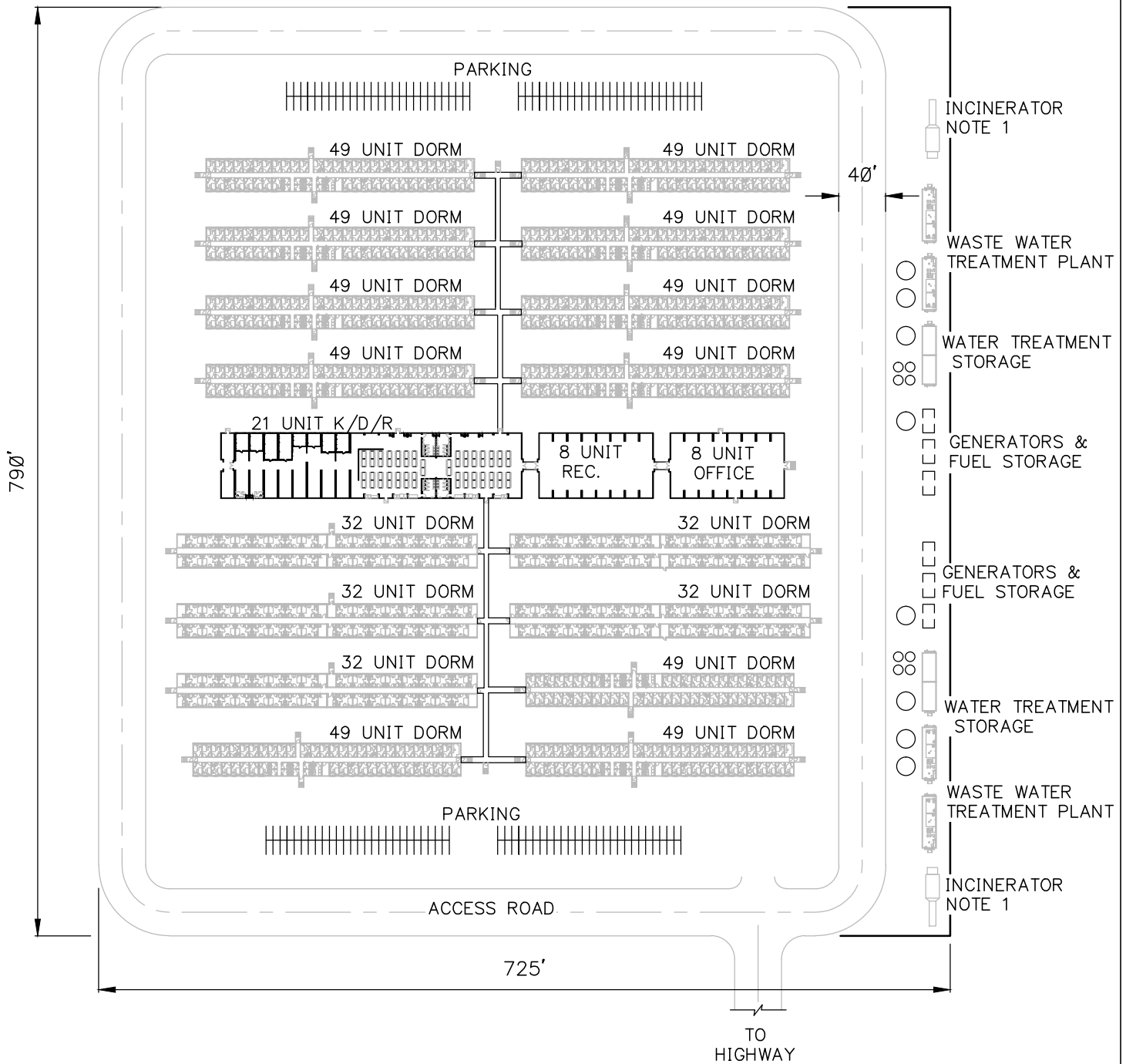
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SCALE: N.T.S.
DATE: 2017-04-14 SHEET: 1 OF 1

400 PERSON CAMP -
8.7 ACRES

TYPICAL FIGURE E-70

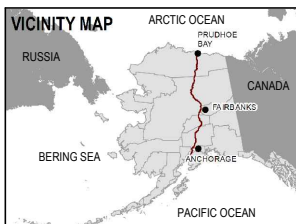
ALASKA LNG



NOTES:

1. INCINERATOR TO BE DOWNWIND OF PREVAILING WINDS.
2. ACTUAL LAYOUT CONFIGURATION MAY CHANGE DEPENDING ON SITE CONDITIONS, BUT OVERALL ACREAGE WILL NOT INCREASE.

PRELIMINARY &
SUBJECT TO CHANGE.
ALL DRAWINGS AND
DIMENSIONS TYPICAL



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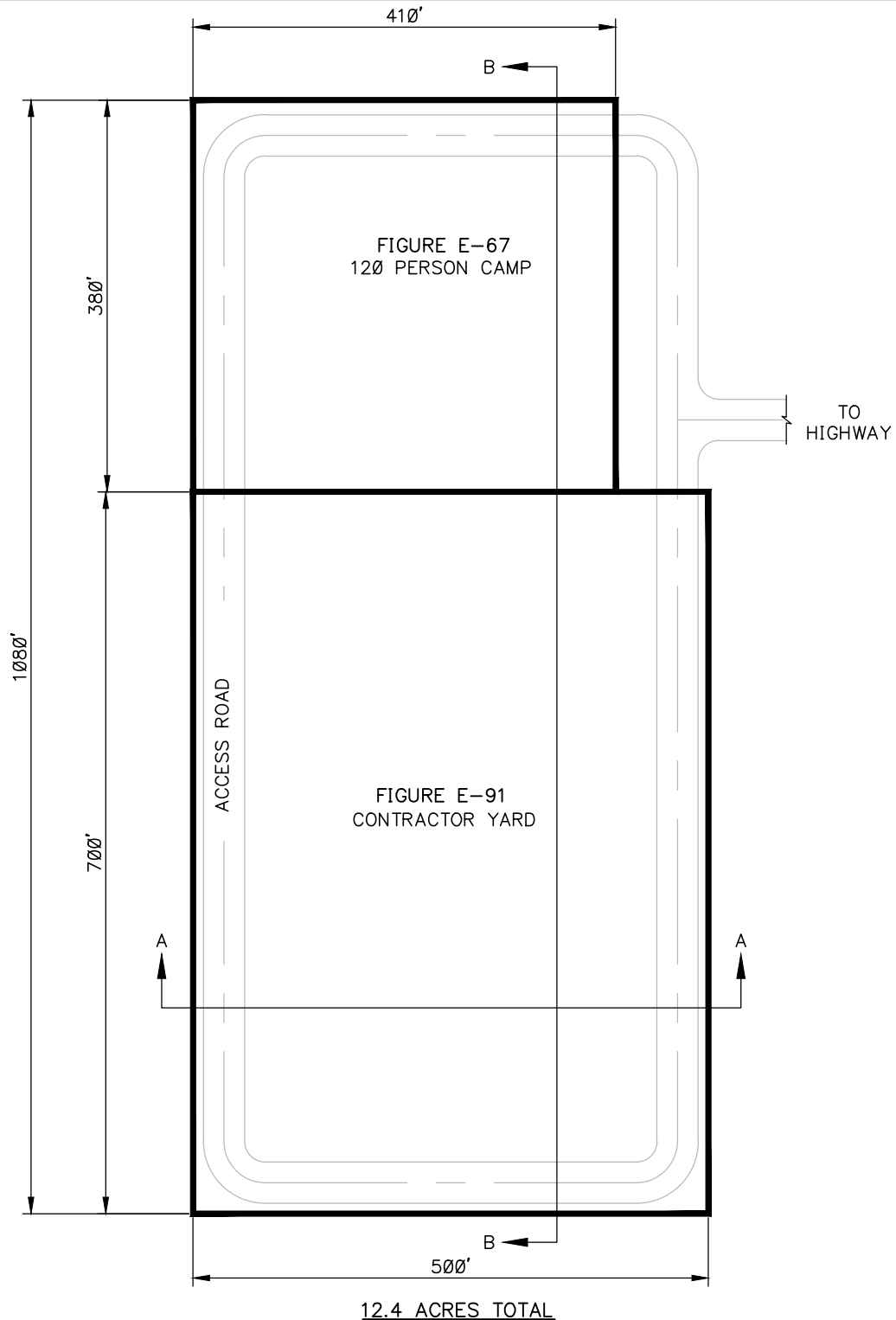
PREPARED BY:	EXP ENERGY SERVICES INC.
SCALE:	N.T.S.
DATE:	2017-04-14
SHEET:	1 OF 1

700 PERSON CAMP -
14 ACRES

TYPICAL

FIGURE E-72

ALASKA LNG



NOTE:

1. HELIPAD TO BE LOCATED WITHIN THIS FOOTPRINT BUT LOCATION IS DEPENDANT UPON SITE CONDITIONS.
2. ACTUAL LAYOUT CONFIGURATION MAY CHANGE DEPENDING ON SITE CONDITIONS, BUT OVERALL ACREAGE WILL NOT INCREASE.

PRELIMINARY &
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ALL DRAWINGS AND
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SCALE:	N.T.S.
DATE:	2017-04-14
SHEET:	1 OF 1

**120 MAN CAMP & CONTRACTOR
YARD - OPTION 1**

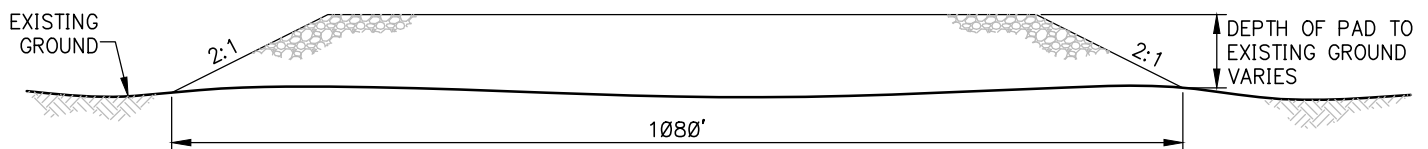
TYPICAL

FIGURE E-73

ALASKA LNG

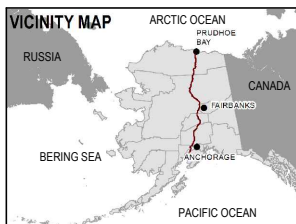


ELEVATION AA
NOT TO SCALE



ELEVATION BB
NOT TO SCALE

PRELIMINARY &
SUBJECT TO CHANGE.
ALL DRAWINGS AND
DIMENSIONS TYPICAL



DISCLAIMER:

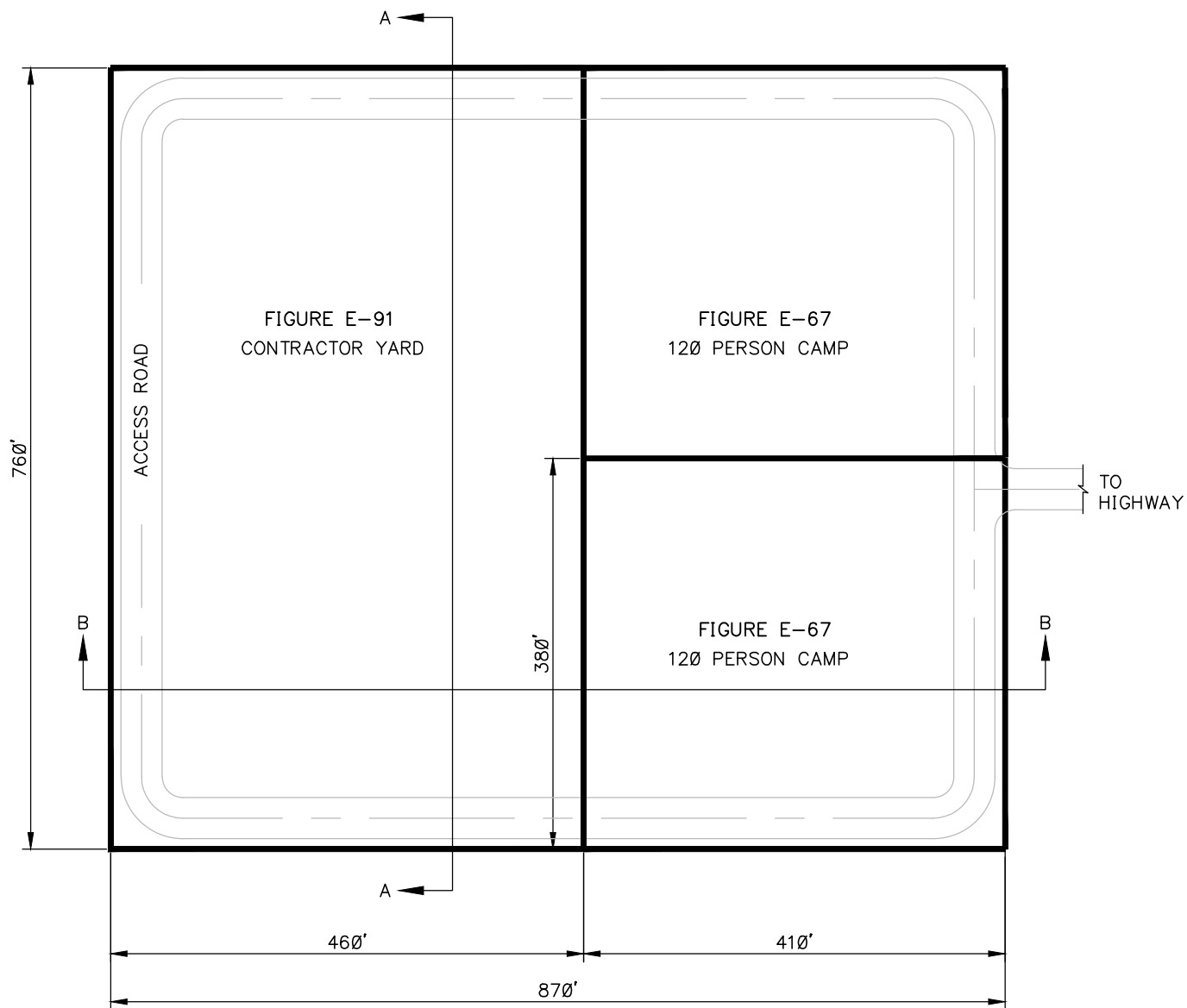
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SCALE:	N.T.S.
DATE:	2017-04-14
SHEET:	1 OF 1

120 MAN CAMP & CONTRACTOR
YARD - OPTION 1 ELEVATION

TYPICAL FIGURE E-73A

ALASKA LNG

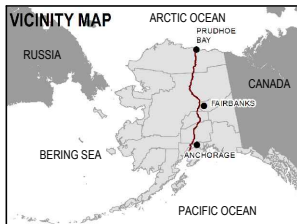


15 ACRES TOTAL

NOTE:

1. HELIPAD TO BE LOCATED WITHIN THIS FOOTPRINT BUT LOCATION IS DEPENDANT UPON SITE CONDITIONS.
2. ACTUAL LAYOUT CONFIGURATION MAY CHANGE DEPENDING ON SITE CONDITIONS, BUT OVERALL ACREAGE WILL NOT INCREASE.

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ALL DRAWINGS AND
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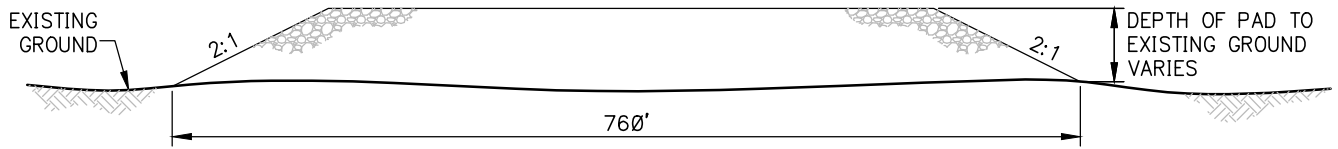
PREPARED BY:	EXP ENERGY SERVICES INC.
SCALE:	N.T.S.
DATE:	2017-04-14
SHEET:	1 OF 1

240 MAN CAMP & CONTRACTOR
YARD - OPTION 2

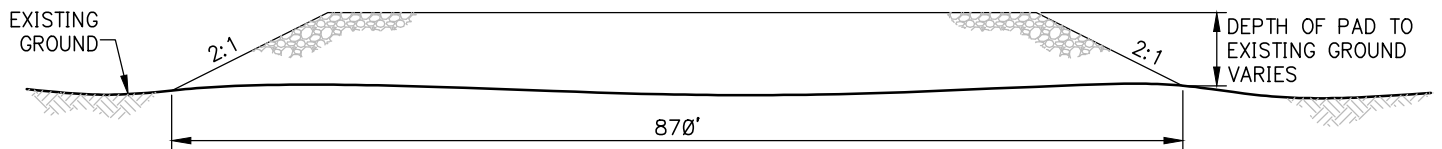
TYPICAL

FIGURE E-74

ALASKA LNG



ELEVATION AA
NOT TO SCALE



ELEVATION BB
NOT TO SCALE

PRELIMINARY &
SUBJECT TO CHANGE.
ALL DRAWINGS AND
DIMENSIONS TYPICAL



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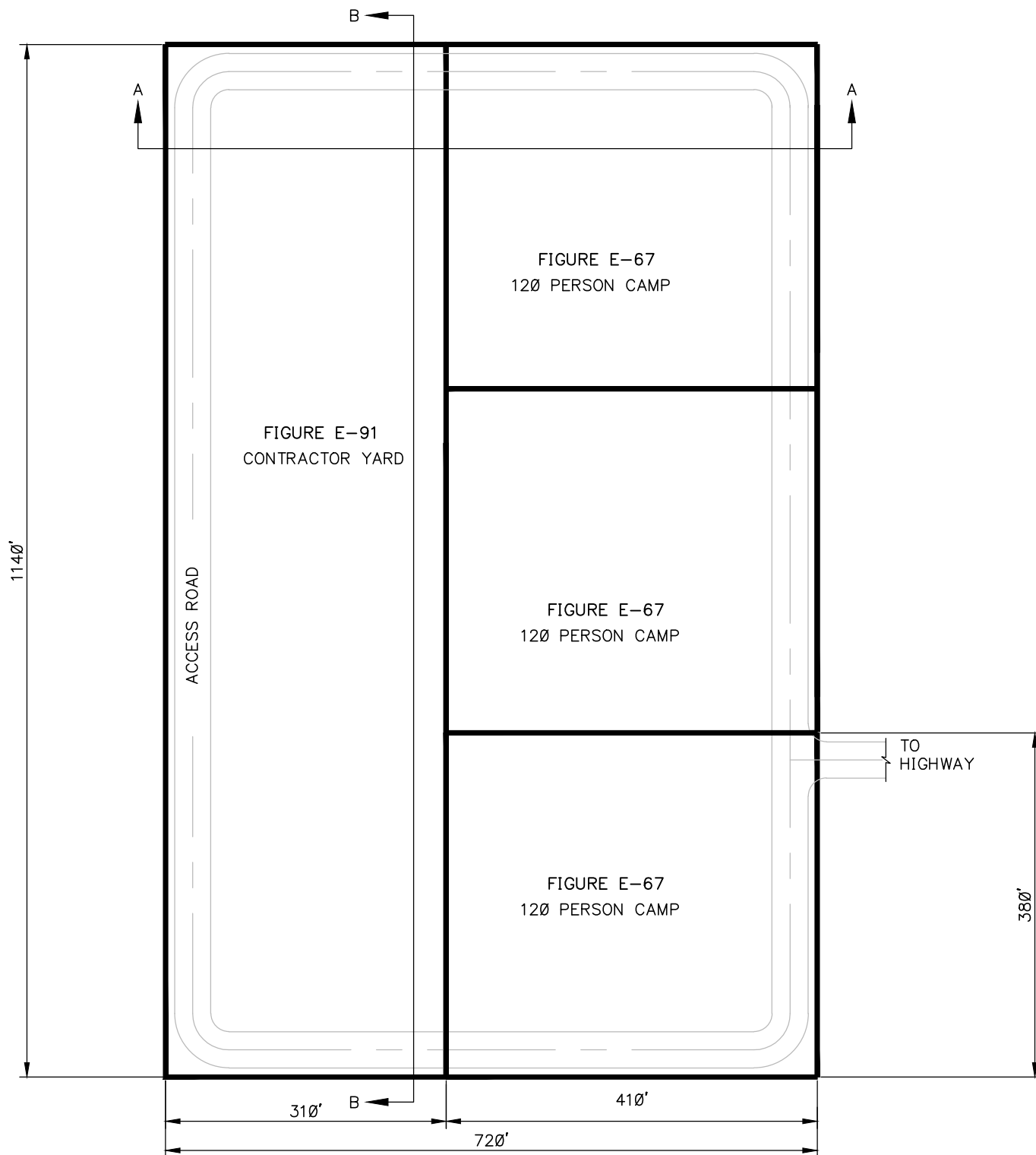
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SCALE:	N.T.S.
DATE:	2017-04-14
SHEET:	1 OF 1

240 MAN CAMP & CONTRACTOR
YARD - OPTION 2 ELEVATION

TYPICAL FIGURE E-74A

ALASKA LNG

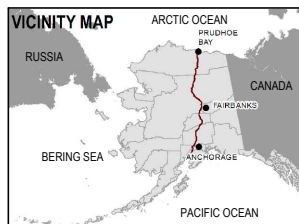


NOTE:

- HELIPAD TO BE LOCATED WITHIN THIS FOOTPRINT BUT LOCATION IS DEPENDANT UPON SITE CONDITIONS.
- ACTUAL LAYOUT CONFIGURATION MAY CHANGE DEPENDING ON SITE CONDITIONS, BUT OVERALL ACREAGE WILL NOT INCREASE.

18.8 ACRES TOTAL

PRELIMINARY &
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ALL DRAWINGS AND
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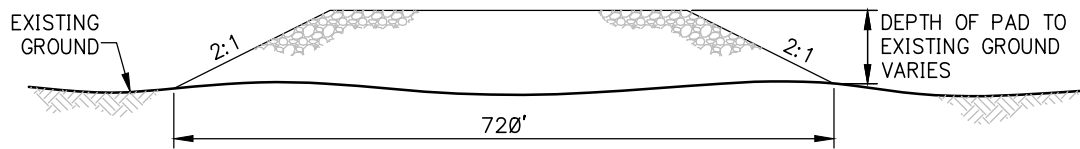
PREPARED BY:	EXP ENERGY SERVICES INC.
SCALE:	N.T.S.
DATE:	2017-04-14
SHEET:	1 OF 1

**360 MAN CAMP & CONTRACTOR
YARD - OPTION 3**

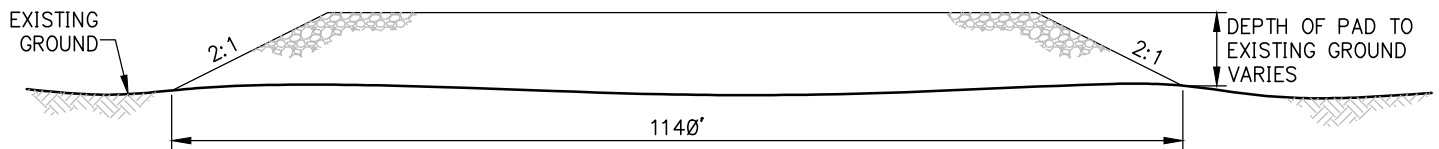
TYPICAL

FIGURE E-75

ALASKA LNG



ELEVATION AA
NOT TO SCALE



ELEVATION BB
NOT TO SCALE

PRELIMINARY &
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ALL DRAWINGS AND
DIMENSIONS TYPICAL



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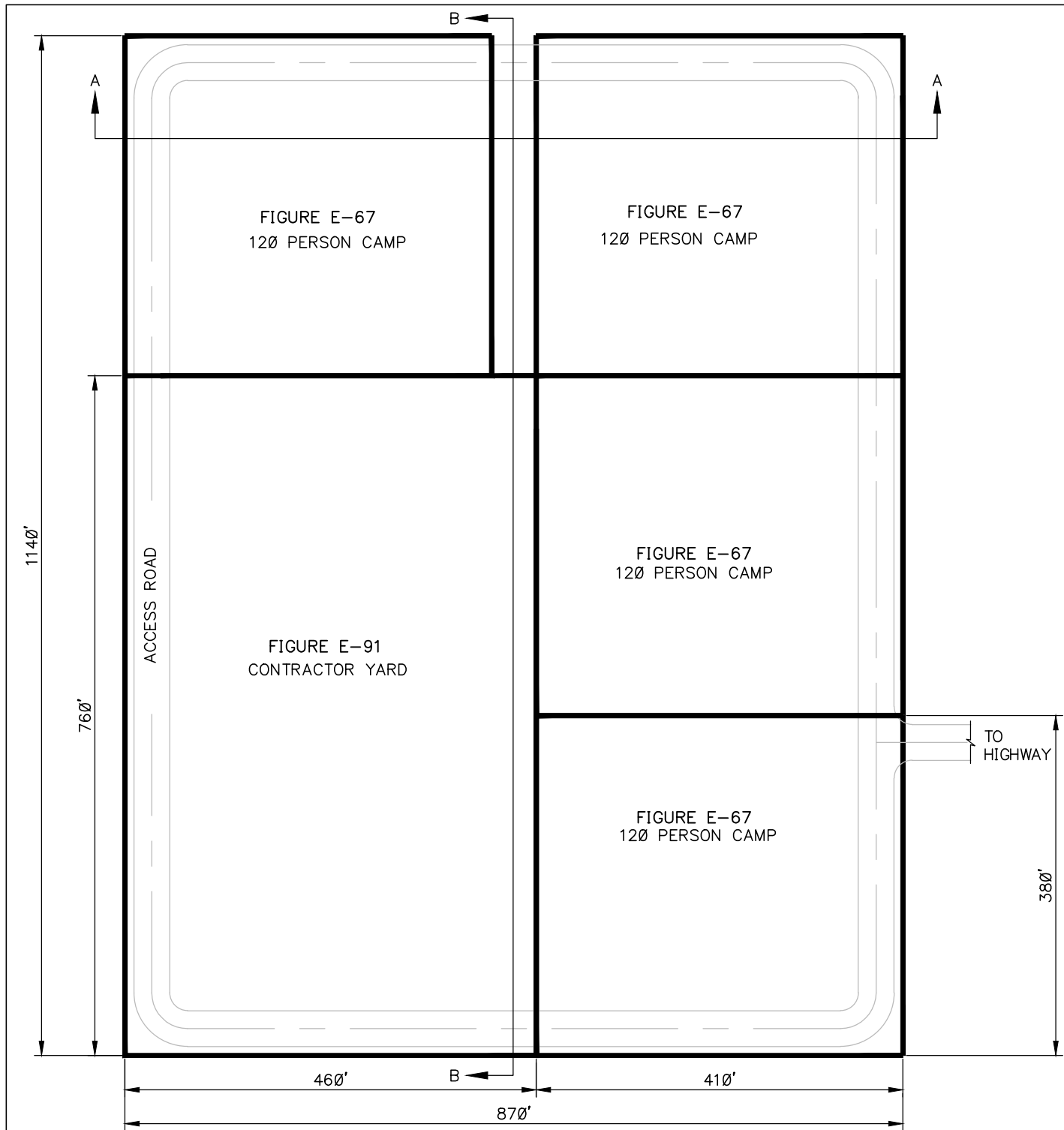
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SCALE:	N.T.S.
DATE:	2017-04-14
SHEET:	1 OF 1

360 MAN CAMP & CONTRACTOR
YARD - OPTION 3 ELEVATION

TYPICAL FIGURE E-75A

ALASKA LNG



NOTE:

- HELIPAD TO BE LOCATED WITHIN THIS FOOTPRINT BUT LOCATION IS DEPENDANT UPON SITE CONDITIONS.
- ACTUAL LAYOUT CONFIGURATION MAY CHANGE DEPENDING ON SITE CONDITIONS, BUT OVERALL ACREAGE WILL NOT INCREASE.

22.8 ACRES TOTAL

PRELIMINARY &
SUBJECT TO CHANGE.
ALL DRAWINGS AND
DIMENSIONS TYPICAL



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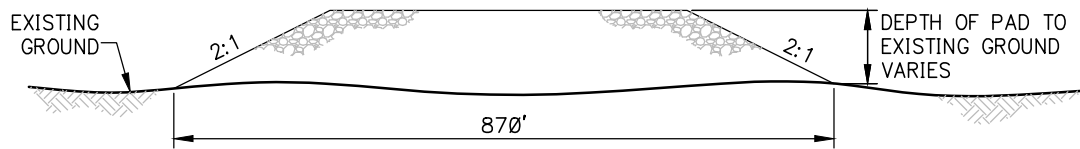
PREPARED BY: EXP ENERGY SERVICES INC.
SCALE: N.T.S.
DATE: 2017-04-14 SHEET: 1 OF 1

**480 MAN CAMP & CONTRACTOR
YARD - OPTION 4**

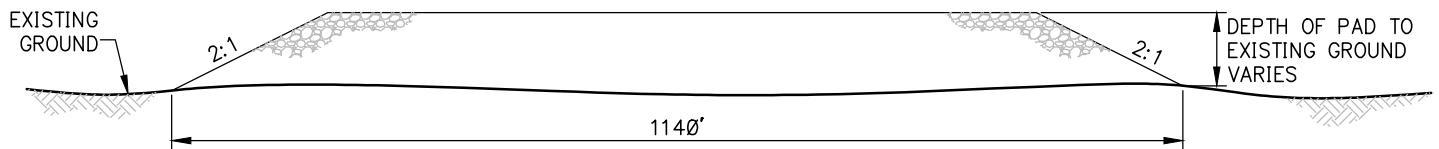
TYPICAL

FIGURE E-76

ALASKA LNG



ELEVATION AA
NOT TO SCALE



ELEVATION BB
NOT TO SCALE

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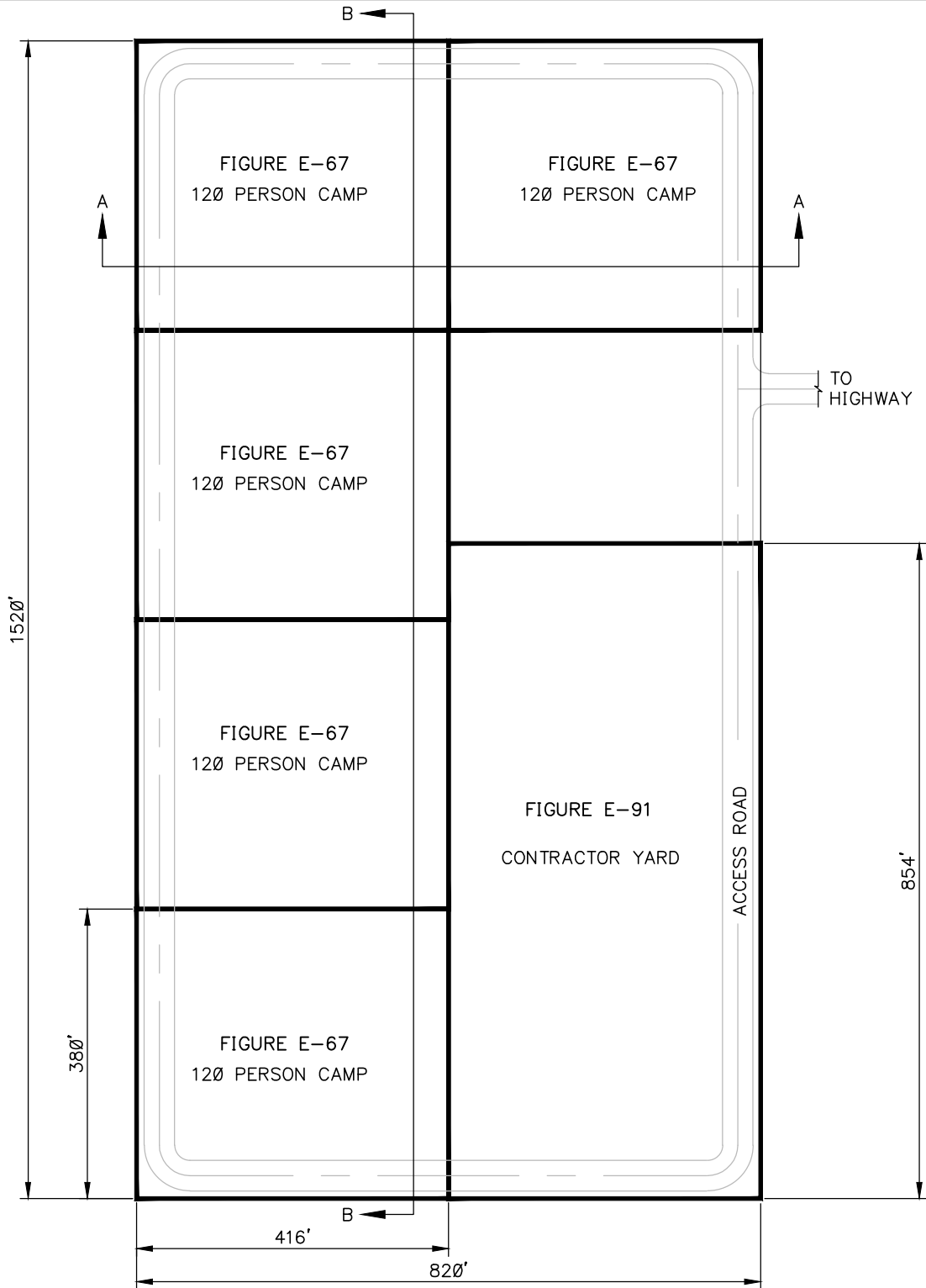
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SCALE:	N.T.S.
DATE:	2017-04-14
SHEET:	1 OF 1

480 MAN CAMP & CONTRACTOR
YARD - OPTION 4 ELEVATION

TYPICAL FIGURE E-76A

ALASKA LNG



NOTE:

- HELIPAD TO BE LOCATED WITHIN THIS FOOTPRINT BUT LOCATION IS DEPENDANT UPON SITE CONDITIONS.
- ACTUAL LAYOUT CONFIGURATION MAY CHANGE DEPENDING ON SITE CONDITIONS, BUT OVERALL ACREAGE WILL NOT INCREASE.

28.6 ACRES TOTAL

**PRELIMINARY &
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ALL DRAWINGS AND
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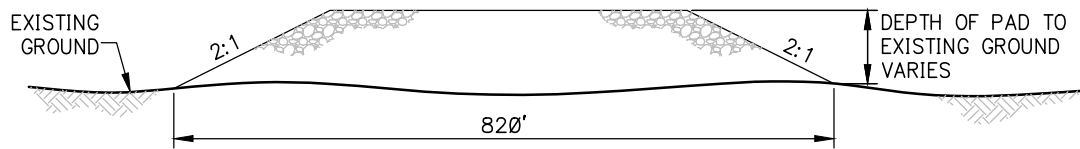
PREPARED BY:	EXP ENERGY SERVICES INC.
SCALE:	N.T.S.
DATE:	2017-04-14
SHEET:	1 OF 1

**600 MAN CAMP & CONTRACTOR
YARD - OPTION 5**

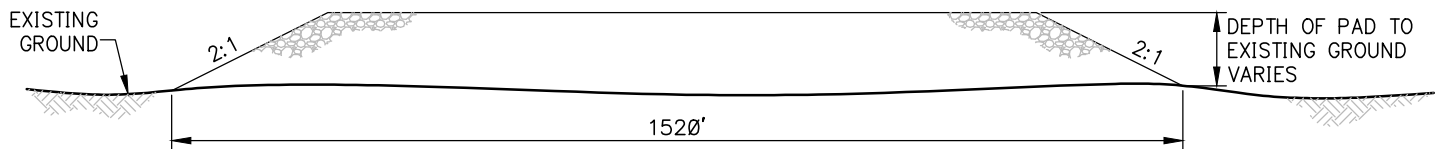
TYPICAL

FIGURE E-77

ALASKA LNG



ELEVATION AA
NOT TO SCALE



ELEVATION BB
NOT TO SCALE

PRELIMINARY &
SUBJECT TO CHANGE.
ALL DRAWINGS AND
DIMENSIONS TYPICAL



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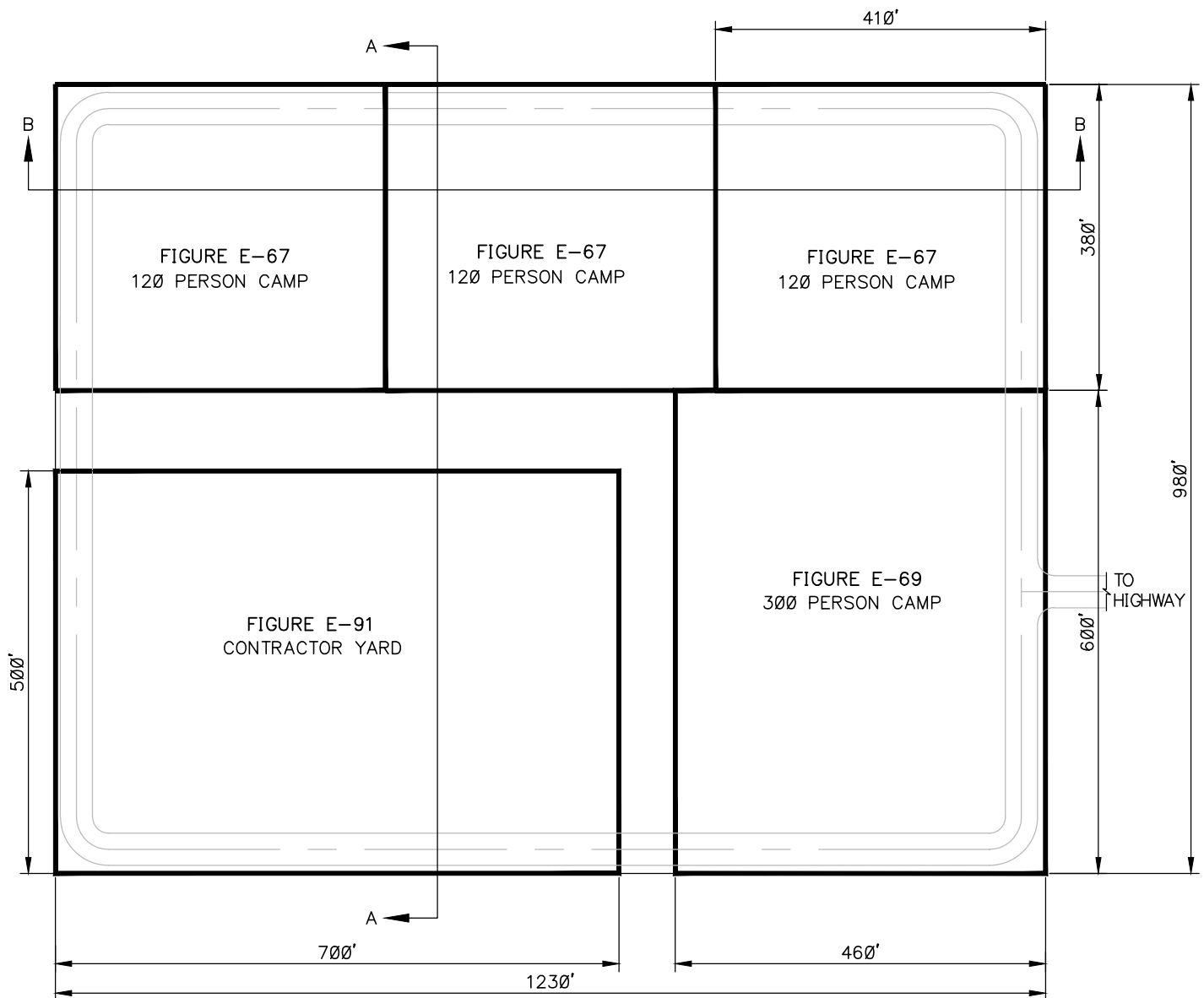
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DATE:	2017-04-14
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600 MAN CAMP & CONTRACTOR
YARD - OPTION 5 ELEVATION

TYPICAL FIGURE E-77A

ALASKA LNG



27.7 ACRES TOTAL

NOTE:

1. HELIPAD TO BE LOCATED WITHIN THIS FOOTPRINT BUT LOCATION IS DEPENDANT UPON SITE CONDITIONS.
2. ACTUAL LAYOUT CONFIGURATION MAY CHANGE DEPENDING ON SITE CONDITIONS, BUT OVERALL ACREAGE WILL NOT INCREASE.

PRELIMINARY &
SUBJECT TO CHANGE.
ALL DRAWINGS AND
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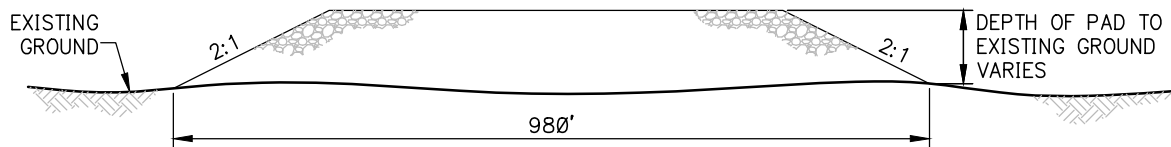
PREPARED BY:	EXP ENERGY SERVICES INC.
SCALE:	N.T.S.
DATE:	2017-04-14
SHEET:	1 OF 1

660 MAN CAMP & CONTRACTOR
YARD - OPTION 6

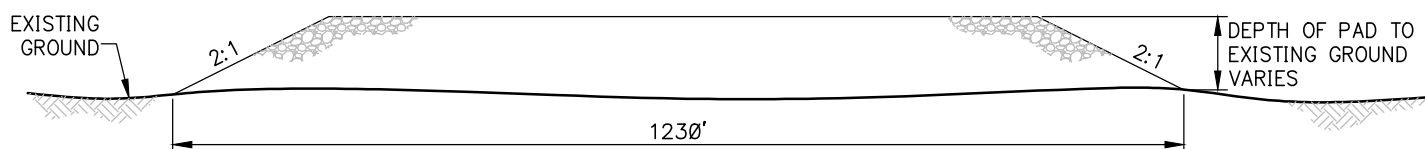
TYPICAL

FIGURE E-78

ALASKA LNG



ELEVATION AA
NOT TO SCALE



ELEVATION BB
NOT TO SCALE

PRELIMINARY &
SUBJECT TO CHANGE.
ALL DRAWINGS AND
DIMENSIONS TYPICAL



DISCLAIMER:

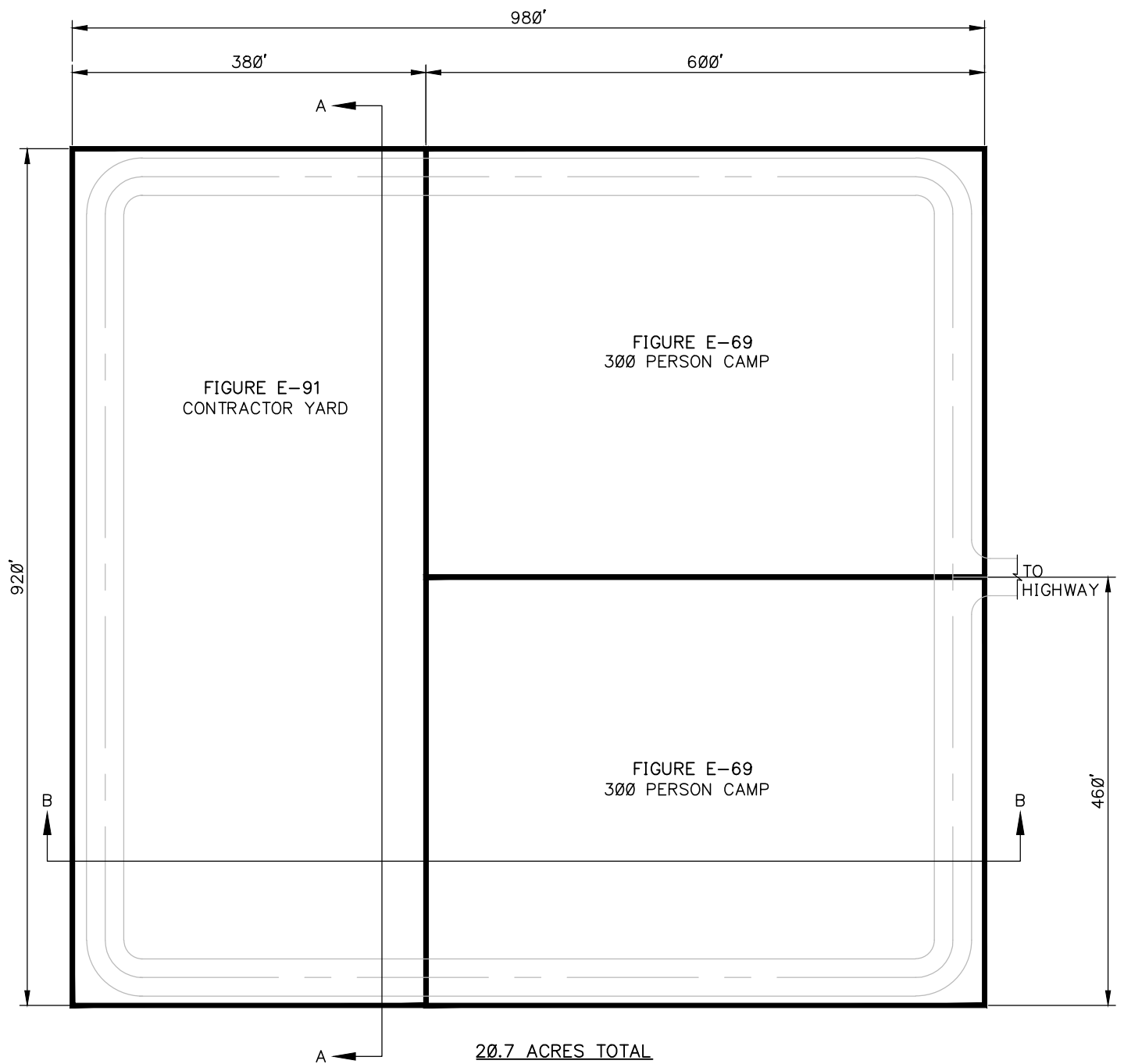
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SCALE:	N.T.S.
DATE:	2017-04-14
SHEET:	1 OF 1

660 MAN CAMP & CONTRACTOR
YARD - OPTION 6 ELEVATION

TYPICAL FIGURE E-78A

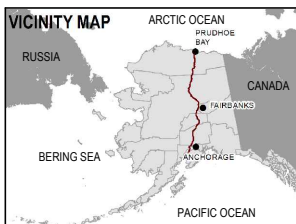
ALASKA LNG



NOTE:

1. HELIPAD TO BE LOCATED WITHIN THIS FOOTPRINT BUT LOCATION IS DEPENDANT UPON SITE CONDITIONS.
2. ACTUAL LAYOUT CONFIGURATION MAY CHANGE DEPENDING ON SITE CONDITIONS, BUT OVERALL ACREAGE WILL NOT INCREASE.

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ALL DRAWINGS AND
DIMENSIONS TYPICAL



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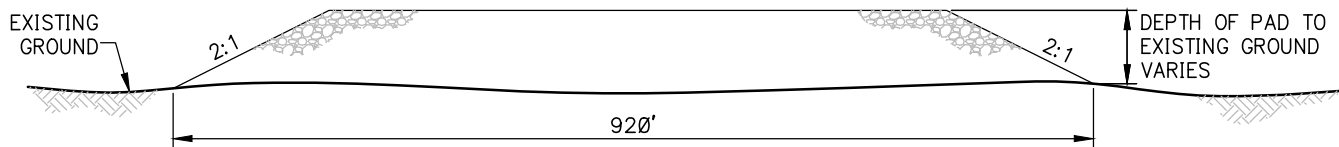
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SCALE:	N.T.S.
DATE:	2017-04-14
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**600 MAN CAMP & CONTRACTOR
YARD - OPTION 7**

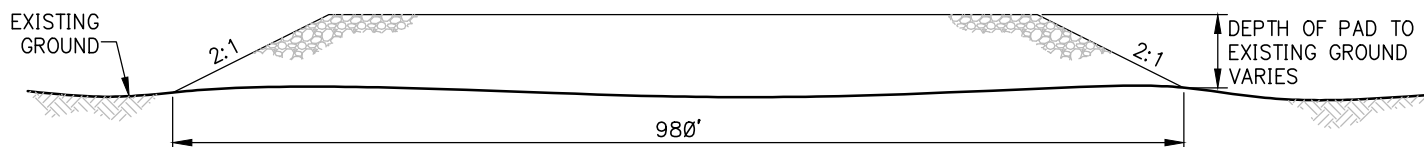
TYPICAL

FIGURE E-79

ALASKA LNG

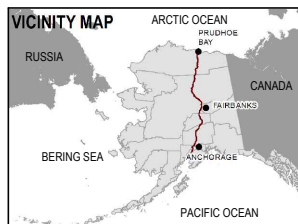


ELEVATION AA
NOT TO SCALE



ELEVATION BB
NOT TO SCALE

PRELIMINARY &
SUBJECT TO CHANGE.
ALL DRAWINGS AND
DIMENSIONS TYPICAL



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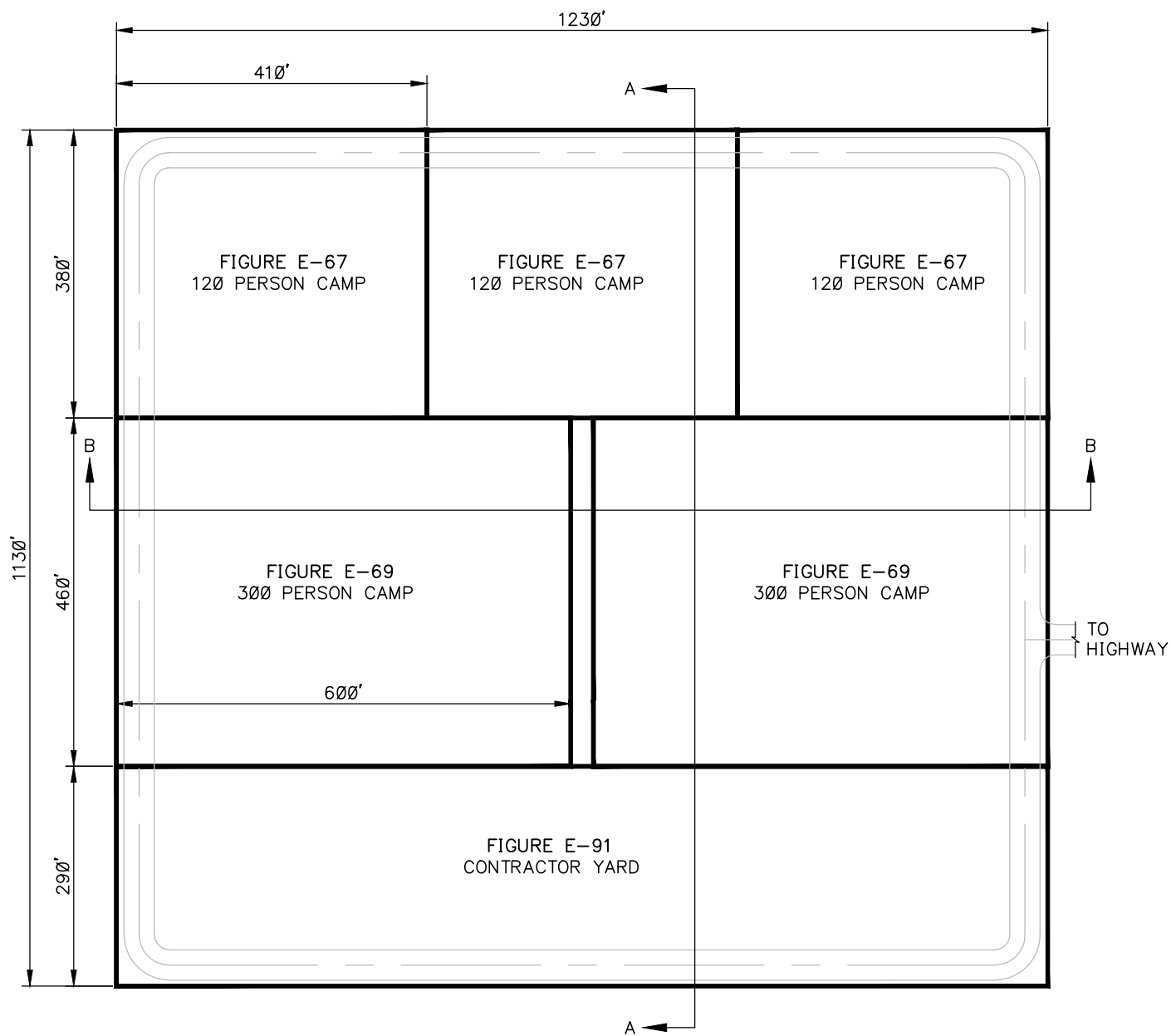
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600 MAN CAMP & CONTRACTOR
YARD - OPTION 7 ELEVATION

TYPICAL FIGURE E-79A

ALASKA LNG

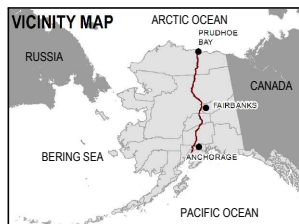


32 ACRES TOTAL

NOTE:

1. HELIPAD TO BE LOCATED WITHIN THIS FOOTPRINT BUT LOCATION IS DEPENDANT UPON SITE CONDITIONS.
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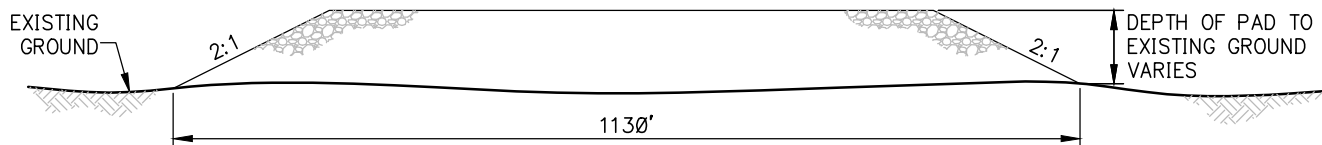
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DATE:	2017-04-14
SHEET:	1 OF 1

**960 MAN CAMP & CONTRACTOR
YARD - OPTION 8**

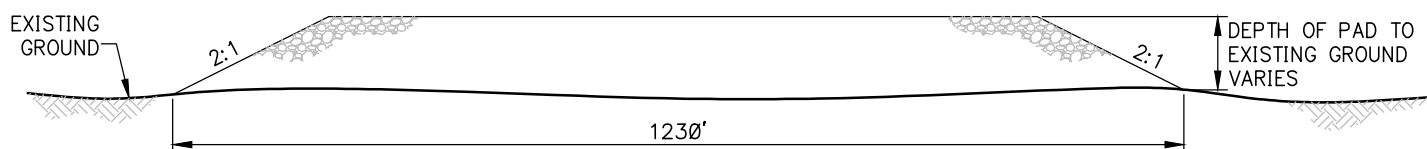
TYPICAL

FIGURE E-80

ALASKA LNG

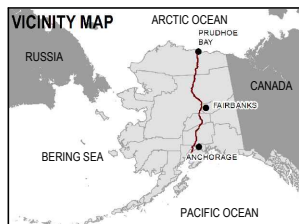


ELEVATION AA
NOT TO SCALE



ELEVATION BB
NOT TO SCALE

PRELIMINARY &
SUBJECT TO CHANGE.
ALL DRAWINGS AND
DIMENSIONS TYPICAL



DISCLAIMER:

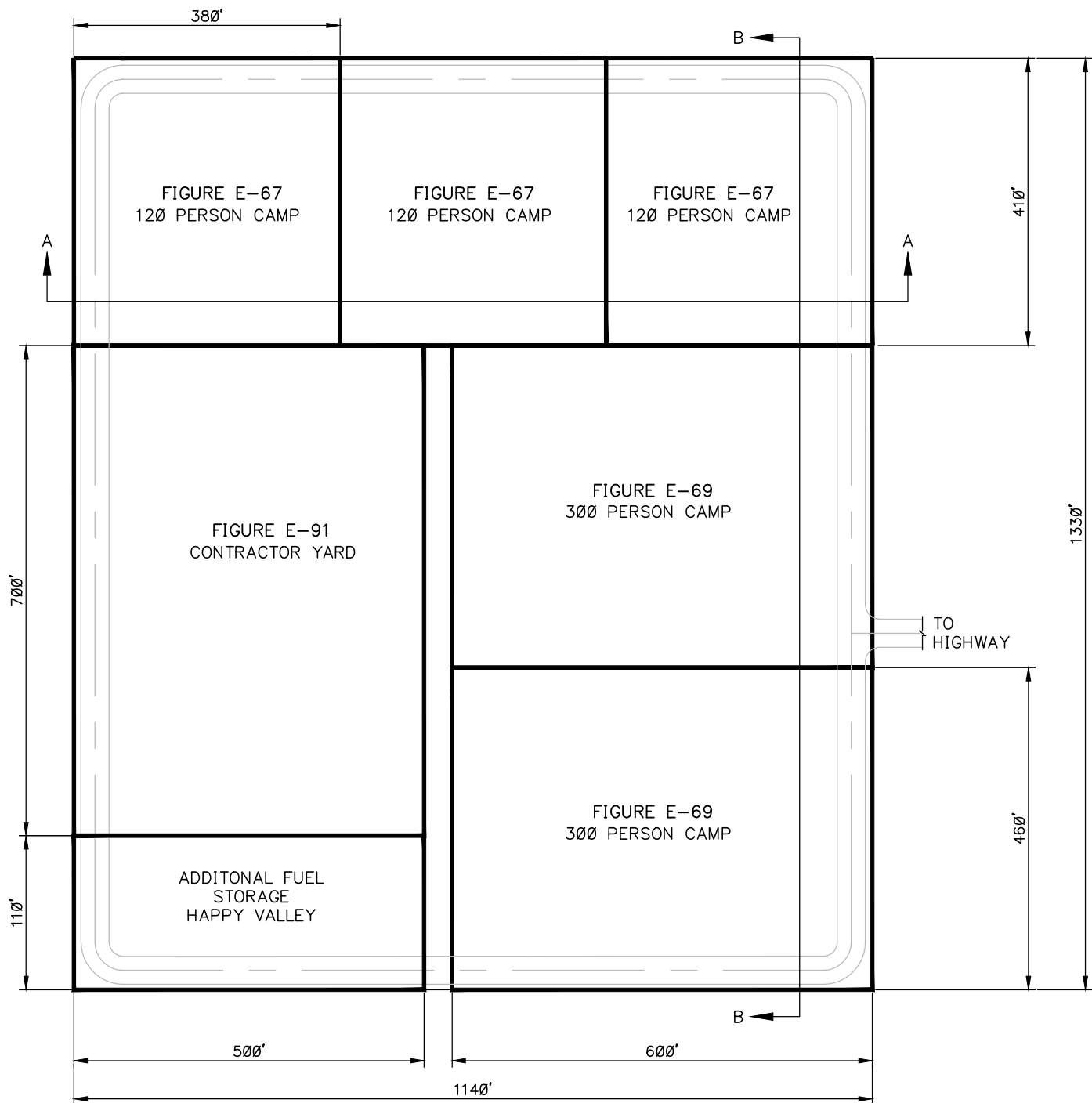
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960 MAN CAMP & CONTRACTOR
YARD - OPTION 8 ELEVATION

TYPICAL FIGURE E-80A

ALASKA LNG

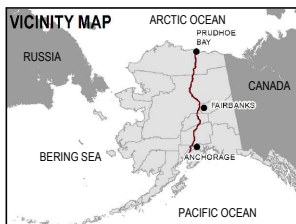


34.8 ACRES TOTAL

NOTE:

1. HELIPAD TO BE LOCATED WITHIN THIS FOOTPRINT BUT LOCATION IS DEPENDANT UPON SITE CONDITIONS.
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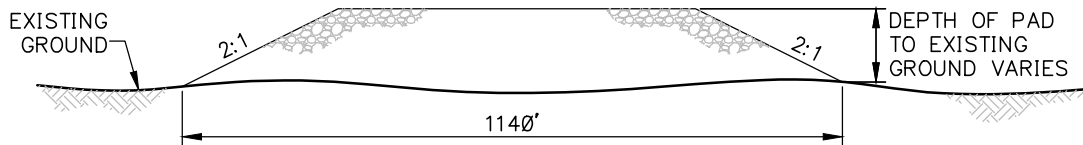
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960 MAN CAMP & CONTRACTOR
YARD W/FUEL DEPOT-
OPTION 9

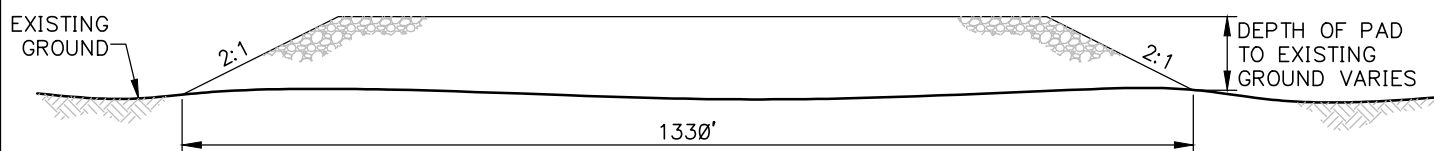
TYPICAL

FIGURE E-81

ALASKA LNG



ELEVATION AA
NOT TO SCALE



ELEVATION BB
NOT TO SCALE

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ALL DRAWINGS AND
DIMENSIONS TYPICAL



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960 MAN CAMP & CONTRACTOR
YARD W/FUEL DEPOT-
OPTION 9 ELEVATION

TYPICAL FIGURE E-81A

ALASKA LNG

1080 MAN CAMP & CONTRACTOR
YARD -
OPTION 10

TYPICAL FIGURE E-82

ALASKA LNG

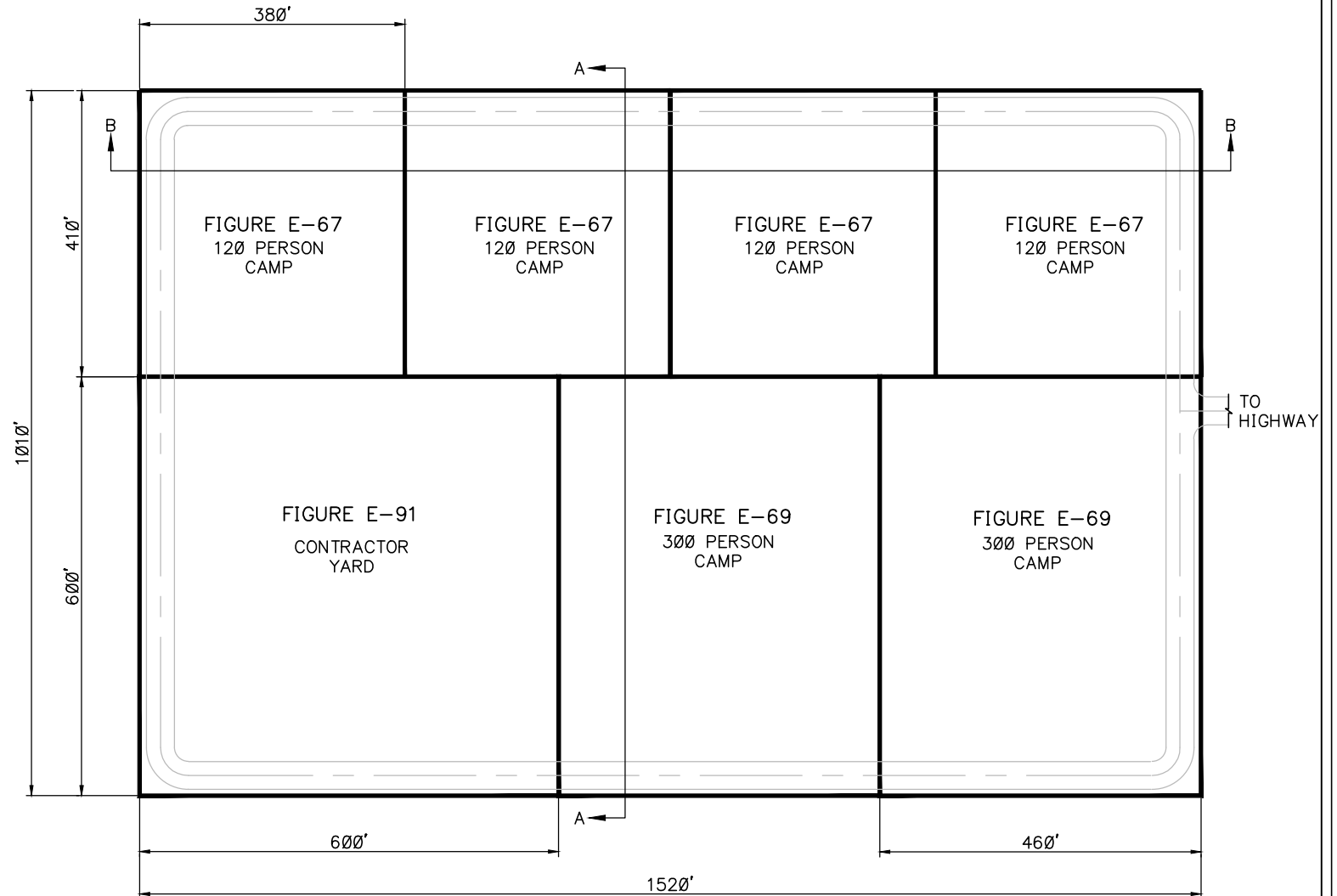
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35.2 ACRES TOTAL

NOTE:

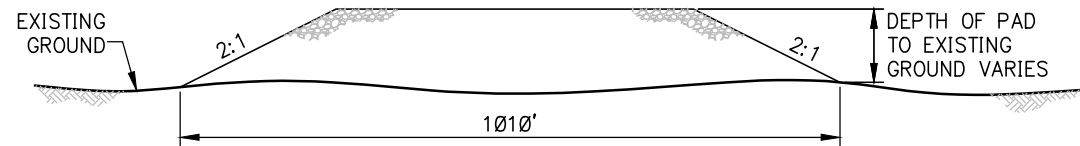
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ALL DRAWINGS AND
DIMENSIONS TYPICAL

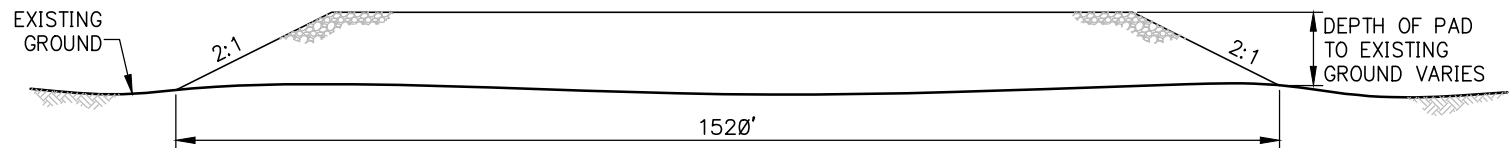
1080 MAN CAMP & CONTRACTOR
YARD -
OPTION 10 ELEVATION

TYPICAL FIGURE E-82A

ALASKA LNG



ELEVATION AA
NOT TO SCALE



ELEVATION BB
NOT TO SCALE

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ALL DRAWINGS AND
DIMENSIONS TYPICAL

1080 MAN CAMP & CONTRACTOR
YARD -
OPTION 11

TYPICAL FIGURE E-83

ALASKA LNG

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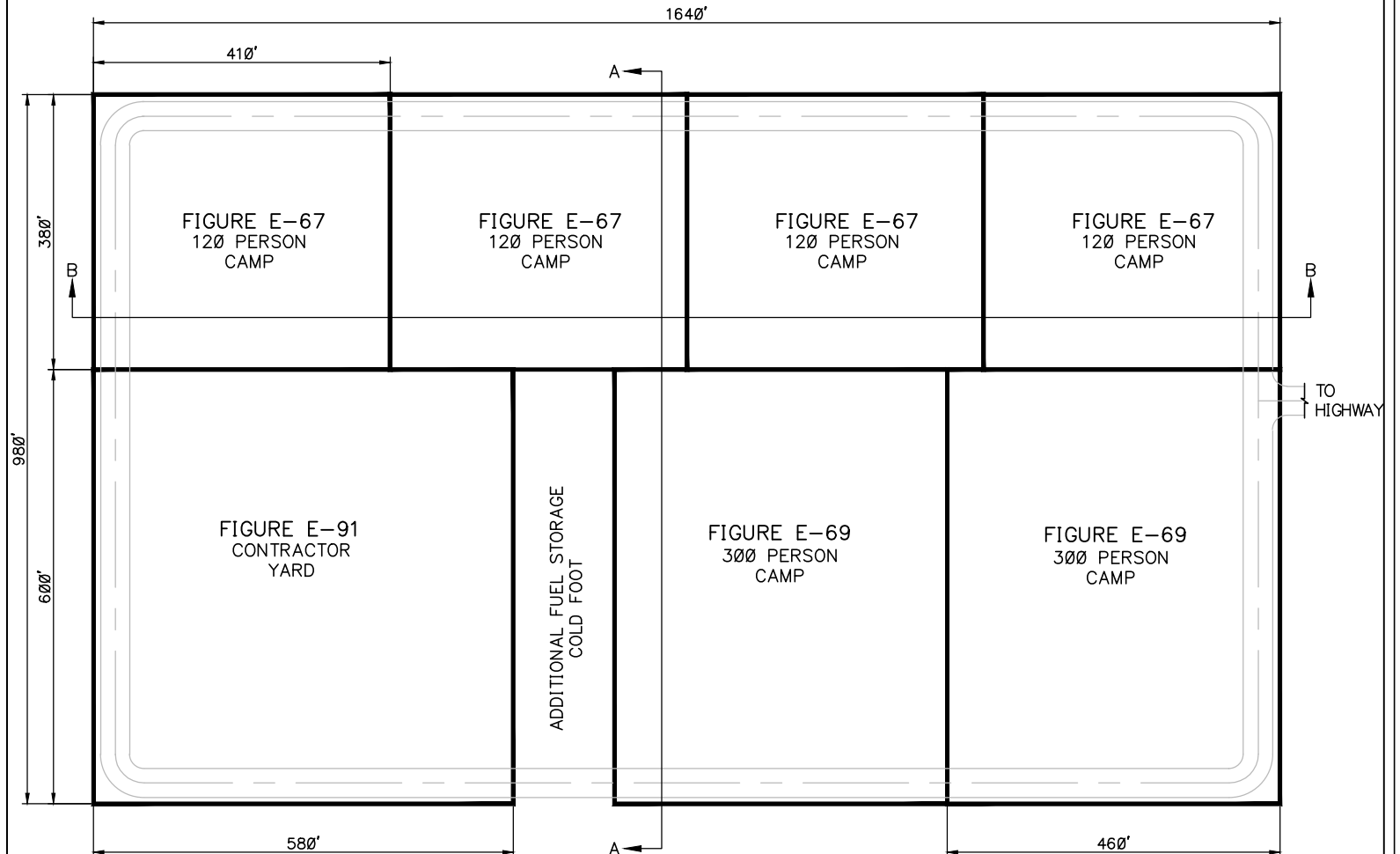
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VICINITY MAP



36.9 ACRES TOTAL

NOTE:

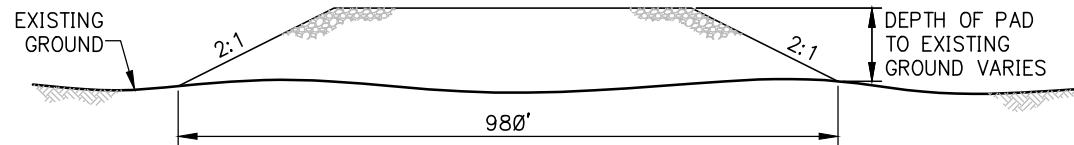
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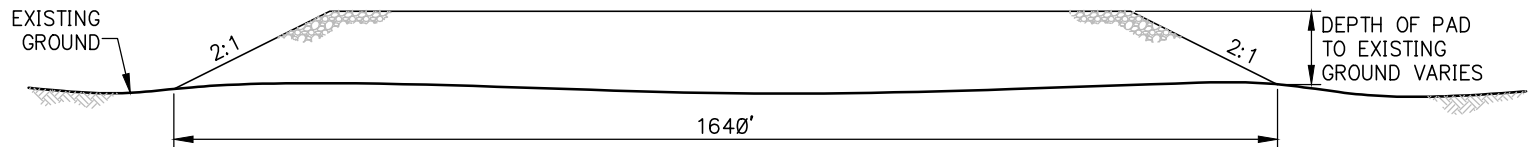
1080 MAN CAMP & CONTRACTOR
YARD -
OPTION 11 ELEVATION

TYPICAL FIGURE E-83A

ALASKA LNG



ELEVATION AA
NOT TO SCALE



ELEVATION BB
NOT TO SCALE

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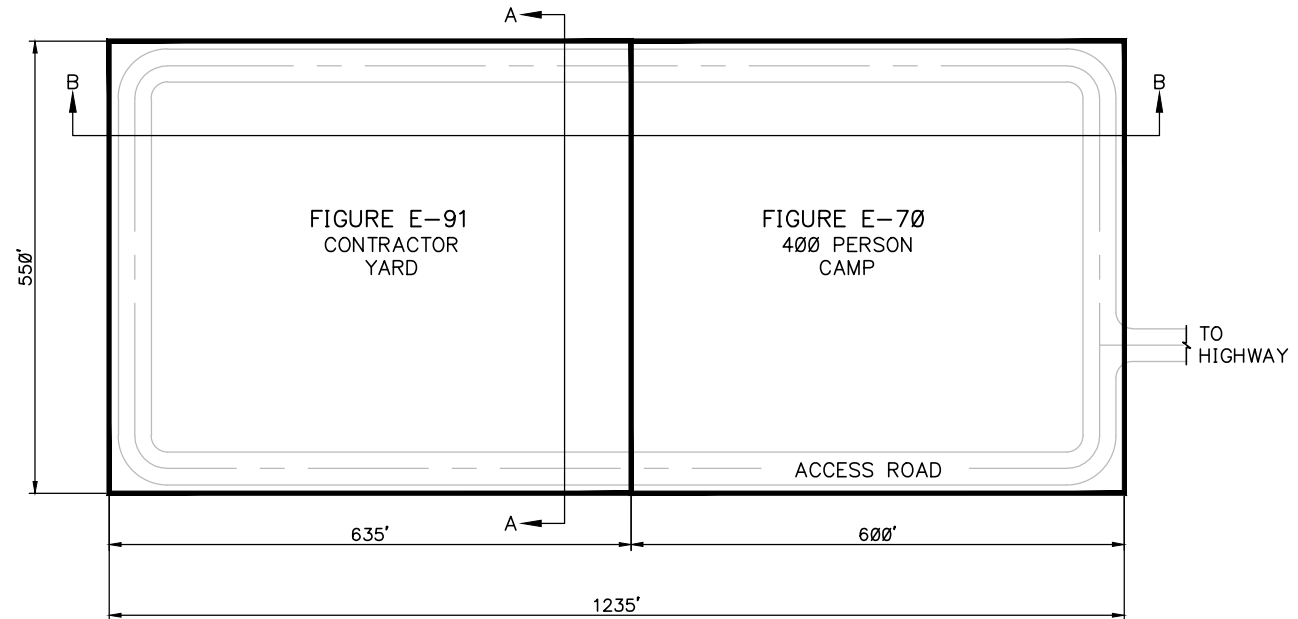


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ALL DRAWINGS AND
DIMENSIONS TYPICAL

400 MAN CAMP & CONTRACTOR
YARD -
OPTION 12

TYPICAL FIGURE E-84

ALASKA LNG



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15.6 ACRES TOTAL

NOTE:

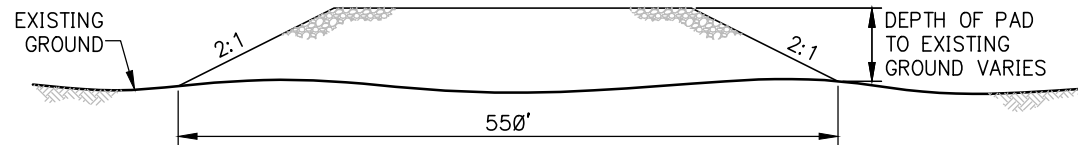
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ALL DRAWINGS AND
DIMENSIONS TYPICAL

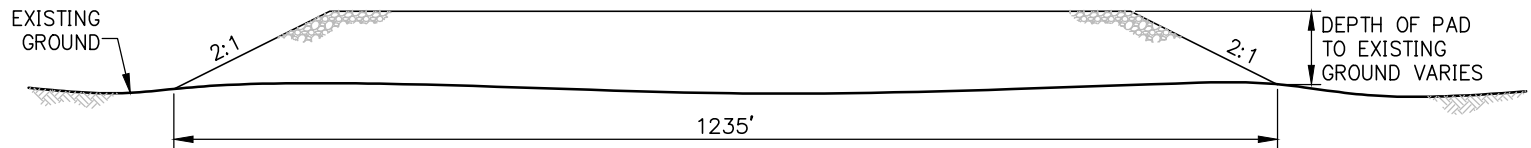
400 MAN CAMP & CONTRACTOR
YARD -
OPTION 12 ELEVATION

TYPICAL FIGURE E-84A

ALASKA LNG



ELEVATION AA
NOT TO SCALE



ELEVATION BB
NOT TO SCALE

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VICINITY MAP



PRELIMINARY &
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ALL DRAWINGS AND
DIMENSIONS TYPICAL

960 MAN CAMP & CONTRACTOR
YARD -
OPTION 13

TYPICAL FIGURE E-85

ALASKA LNG

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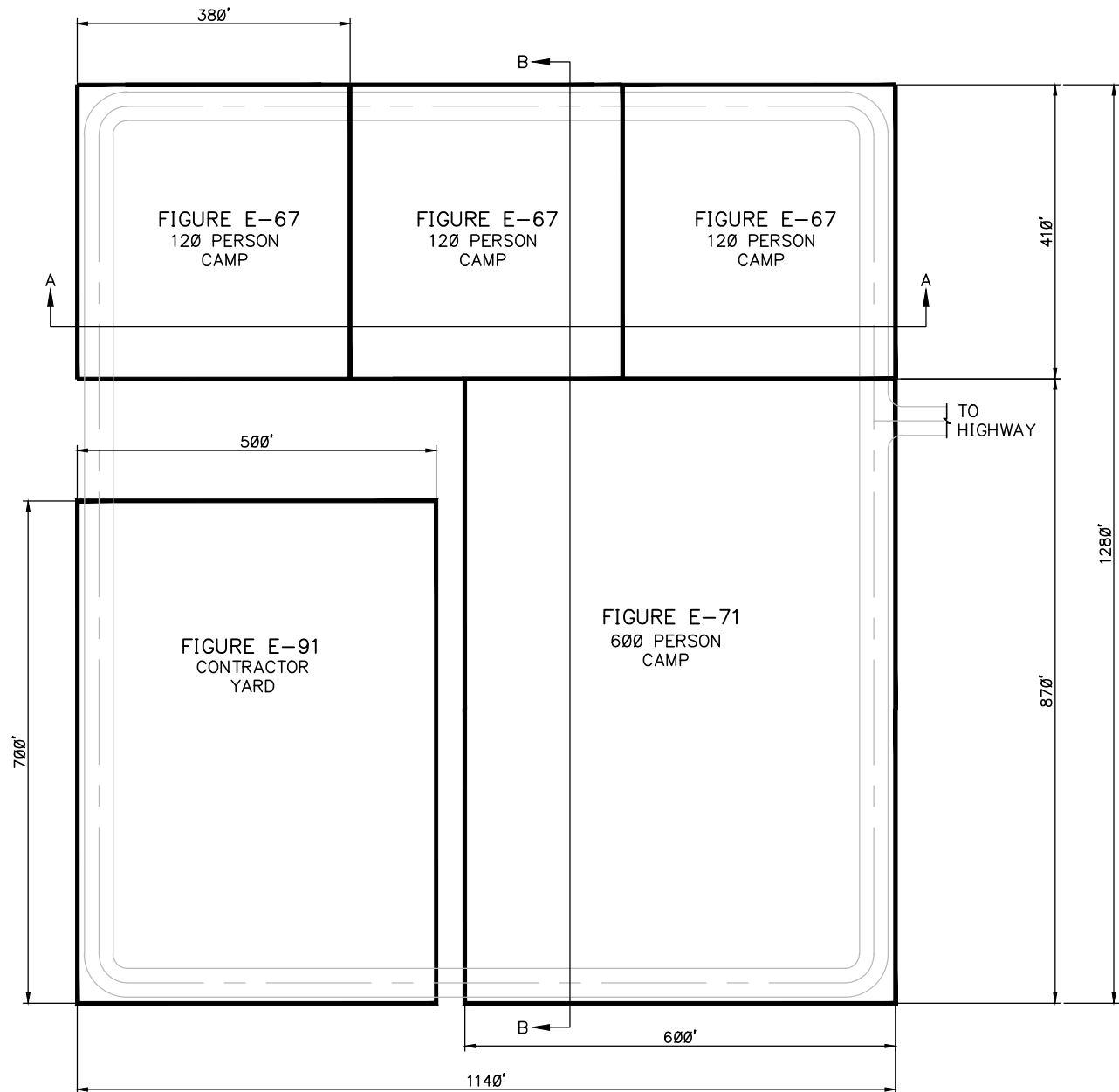
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VICINITY MAP



NOTE:

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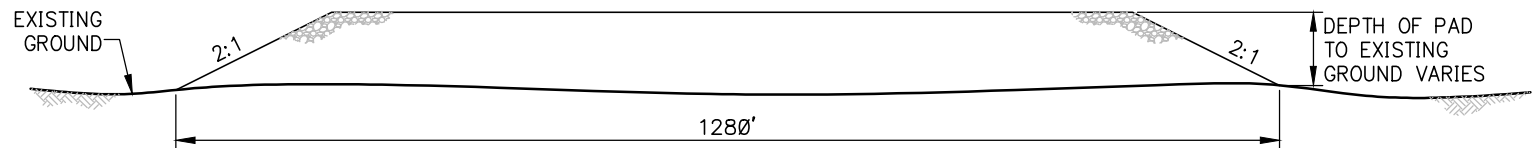
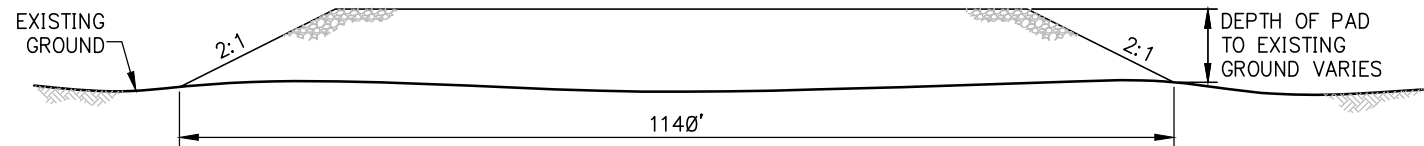
33.5 ACRES TOTAL

PRELIMINARY &
SUBJECT TO CHANGE.
ALL DRAWINGS AND
DIMENSIONS TYPICAL

960 MAN CAMP & CONTRACTOR
YARD -
OPTION 13 ELEVATION

TYPICAL FIGURE E-85A

ALASKA LNG



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ALL DRAWINGS AND
DIMENSIONS TYPICAL

940 MAN CAMP & CONTRACTOR
YARD -
OPTION 14

TYPICAL FIGURE E-86

ALASKA LNG

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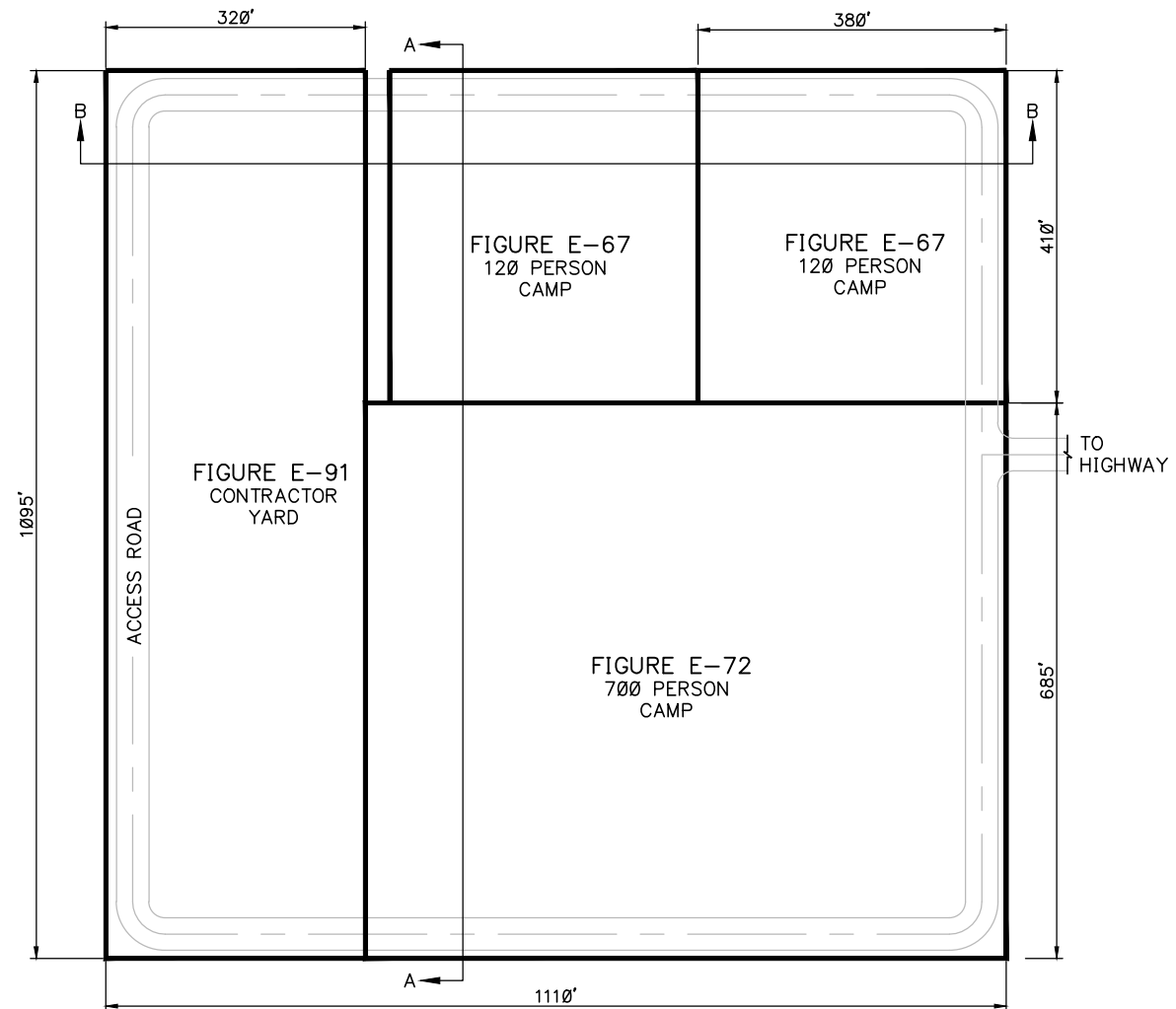
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VICINITY MAP



28 ACRES TOTAL

NOTE:

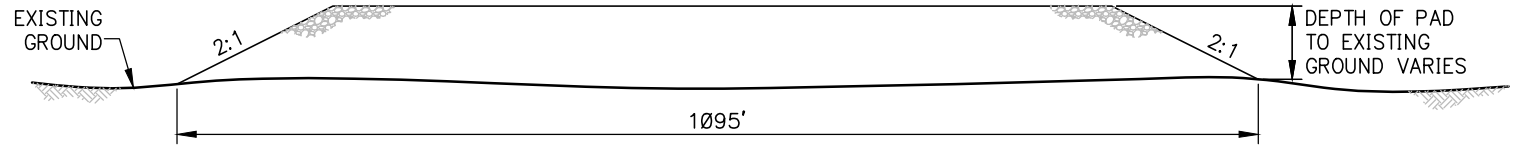
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DIMENSIONS TYPICAL

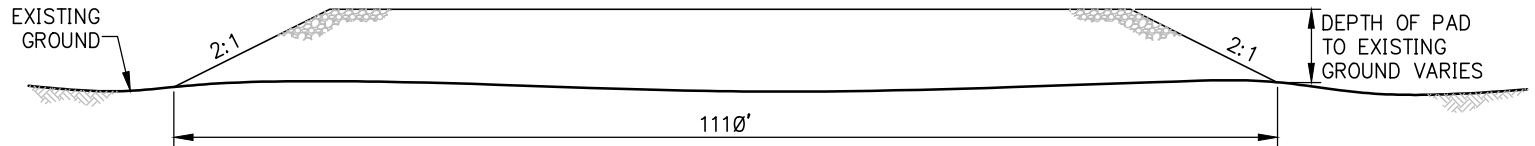
940 MAN CAMP & CONTRACTOR
YARD -
OPTION 14 ELEVATION

TYPICAL FIGURE E-86A

ALASKA LNG



ELEVATION AA
NOT TO SCALE



ELEVATION BB
NOT TO SCALE

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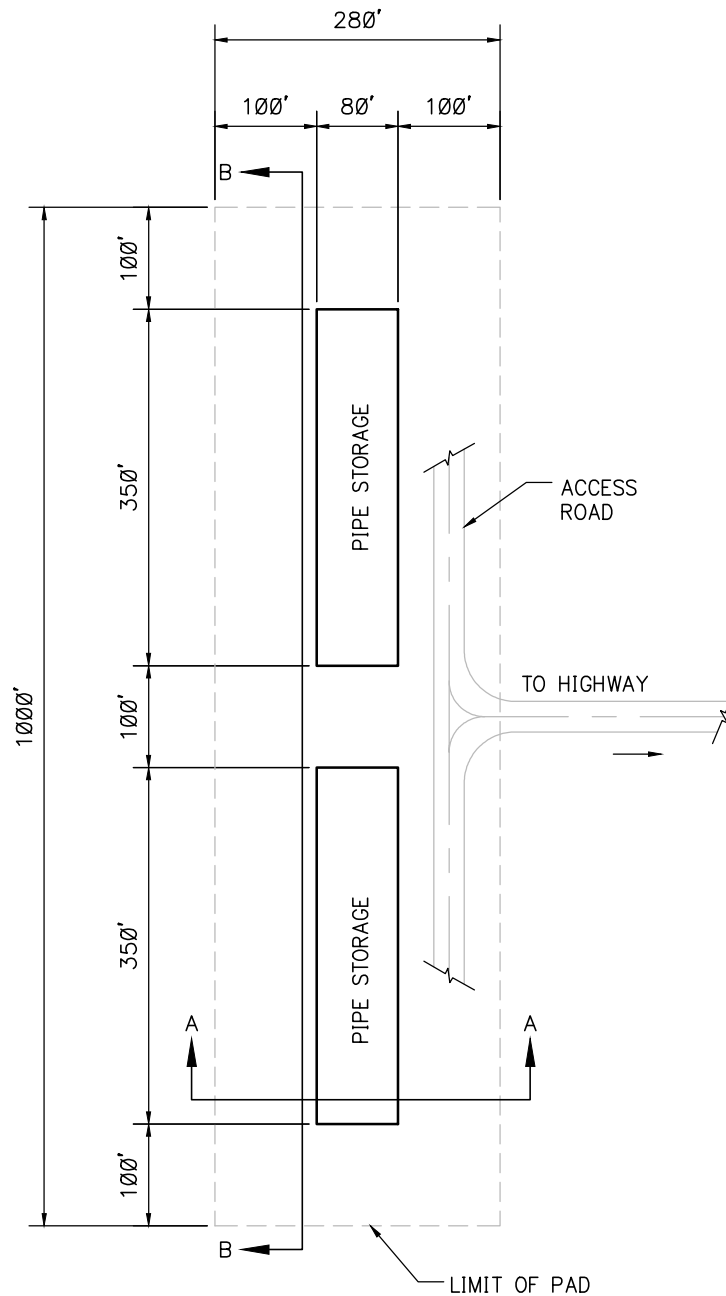
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NOTE:

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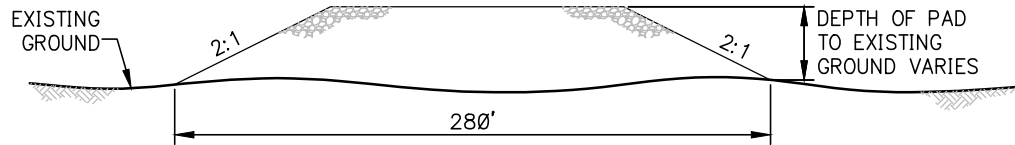
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**SMALL STANDALONE PIPE
STORAGE YARD - 6.4 ACRES**

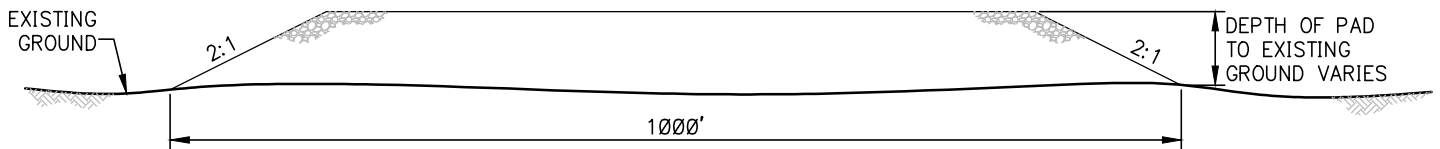
TYPICAL

FIGURE E-87

ALASKA LNG



ELEVATION AA
NOT TO SCALE



ELEVATION BB
NOT TO SCALE

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DIMENSIONS TYPICAL



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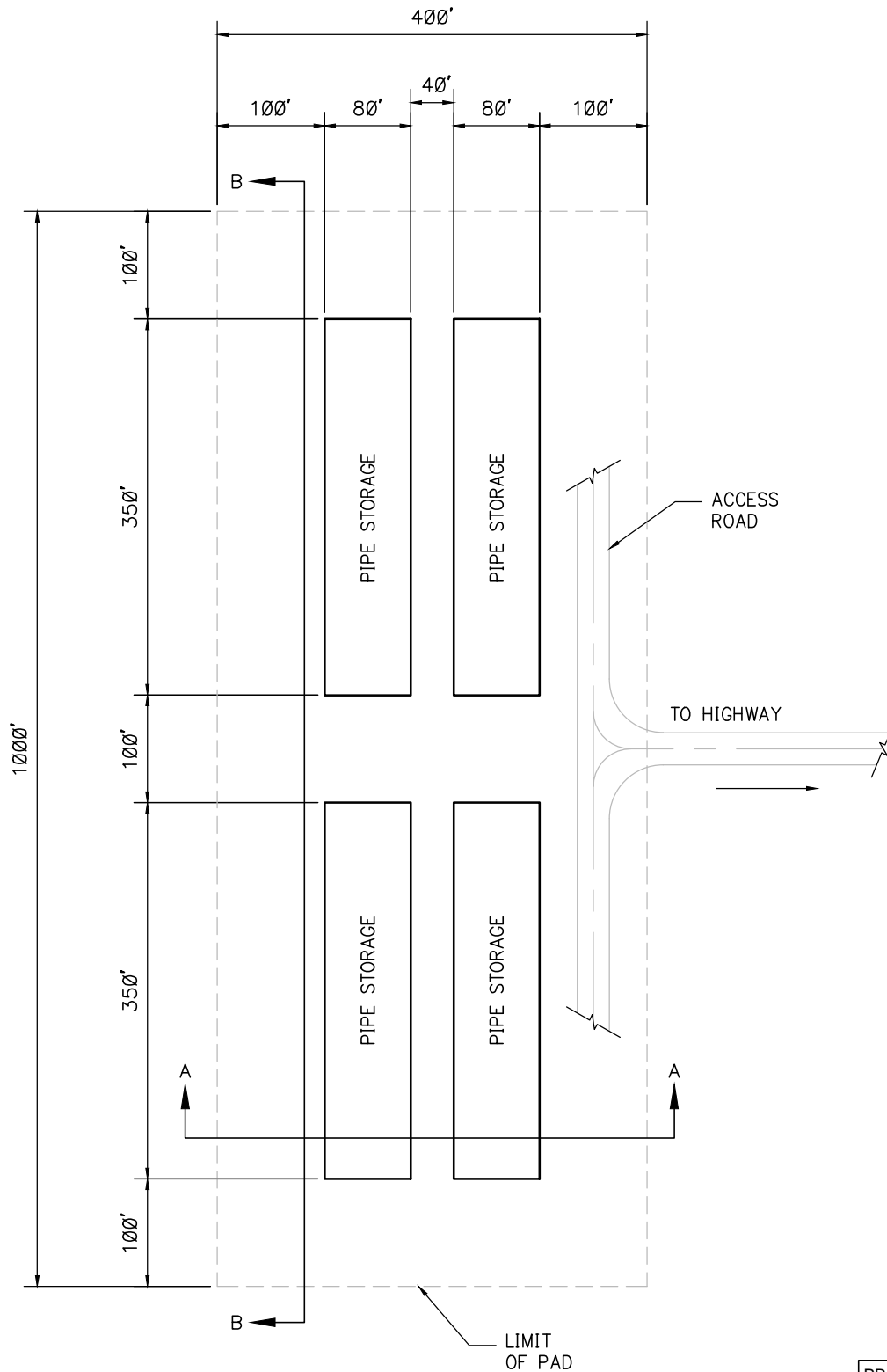
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DATE:	2017-04-14
SHEET:	1 OF 1

SMALL STANDALONE PIPE
STORAGE YARD - 6.4 ACRES
ELEVATION

TYPICAL FIGURE E-87A

ALASKA LNG



NOTE:

1. CONFIGURATION MAY CHANGE DEPENDING ON SITE CONDITIONS, BUT OVERALL ACREAGE WILL NOT INCREASE.

PRELIMINARY &
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ALL DRAWINGS AND
DIMENSIONS TYPICAL



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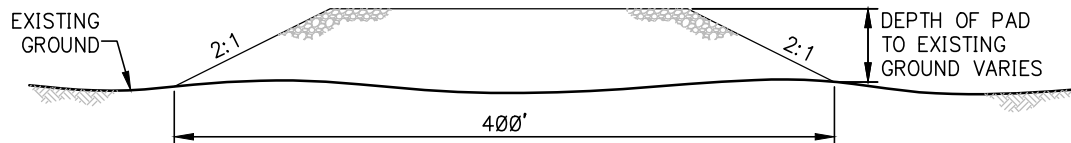
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**MEDIUM STANDALONE PIPE
STORAGE YARD - 9.2 ACRES**

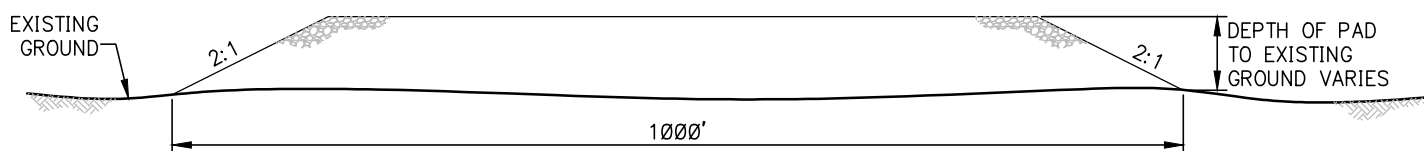
TYPICAL

FIGURE E-88

ALASKA LNG



ELEVATION AA
NOT TO SCALE



ELEVATION BB
NOT TO SCALE

PRELIMINARY &
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ALL DRAWINGS AND
DIMENSIONS TYPICAL



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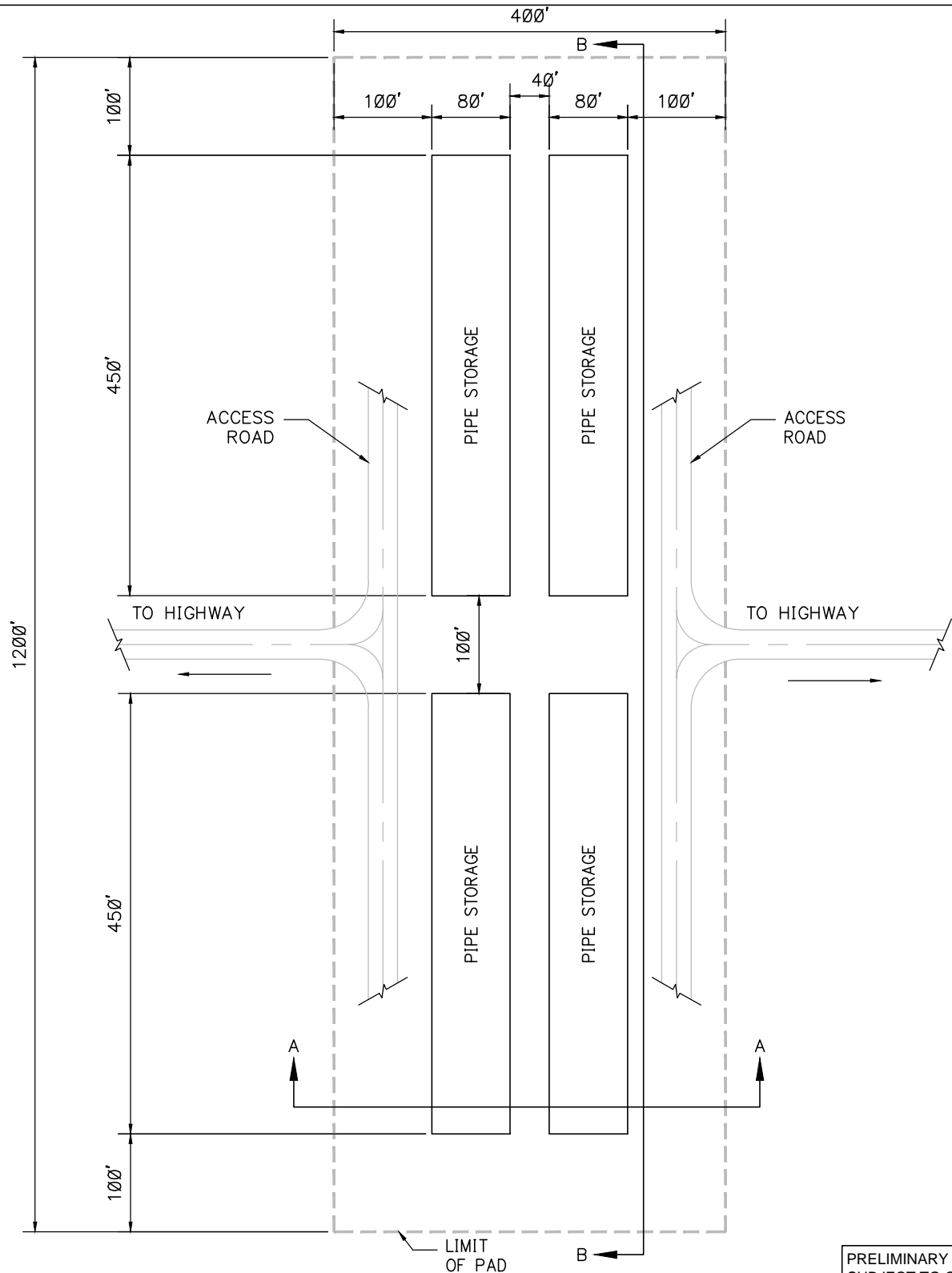
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**MEDIUM STANDALONE PIPE
STORAGE YARD - 9.2 ACRES
ELEVATION**

TYPICAL FIGURE E-88A

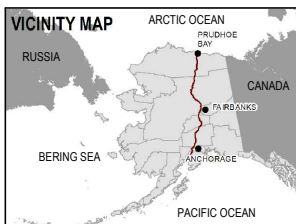
ALASKA LNG



NOTE:

1. CONFIGURATION MAY CHANGE DEPENDING ON SITE CONDITIONS, BUT OVERALL ACREAGE WILL NOT INCREASE.

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ALL DRAWINGS AND
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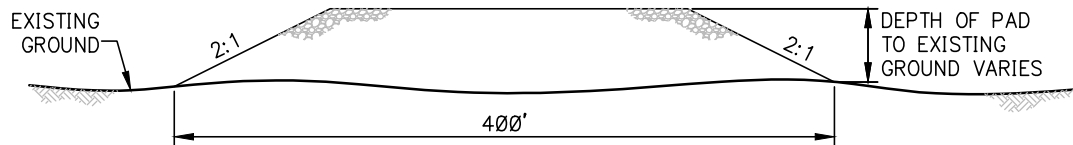
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**LARGE STANDALONE PIPE
STORAGE YARD - 11 ACRES**

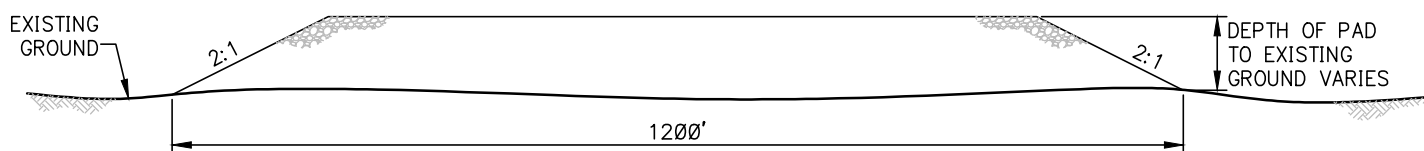
TYPICAL

FIGURE E-89

ALASKA LNG



ELEVATION AA
NOT TO SCALE



ELEVATION BB
NOT TO SCALE

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DIMENSIONS TYPICAL



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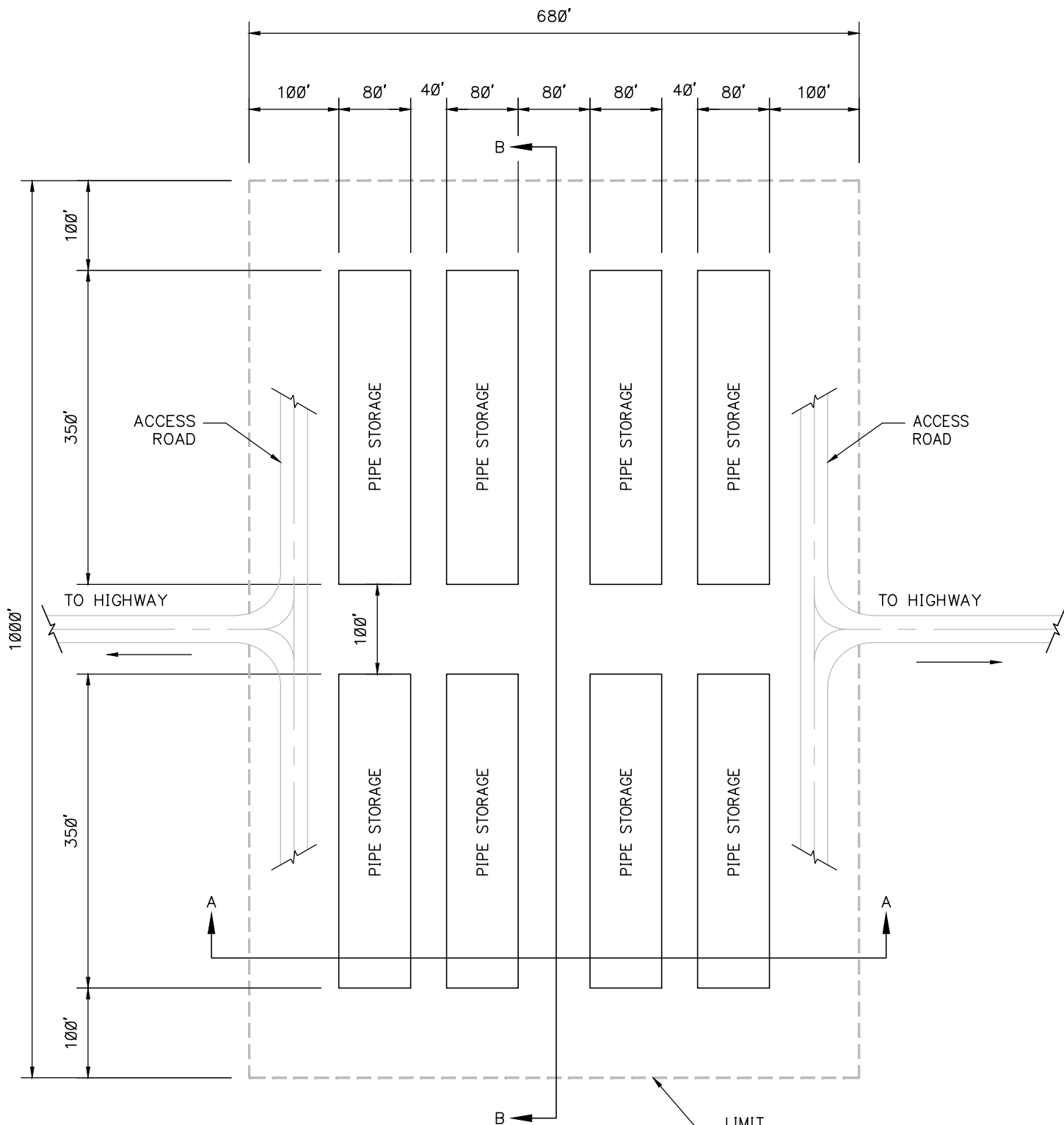
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LARGE STANDALONE PIPE
STORAGE YARD - 11 ACRES
ELEVATION

TYPICAL FIGURE E-89A

ALASKA LNG



NOTE:

1. CONFIGURATION MAY CHANGE DEPENDING ON SITE CONDITIONS, BUT OVERALL ACREAGE WILL NOT INCREASE.

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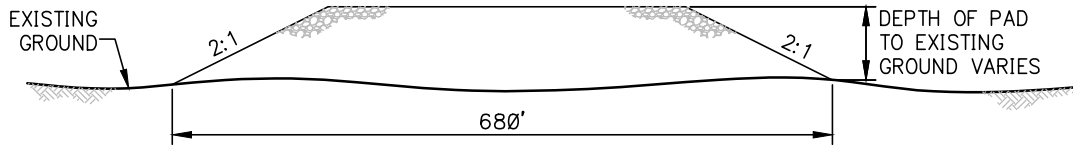
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**VERY LARGE STANDALONE
PIPE STORAGE YARD -
15.6 ACRES**

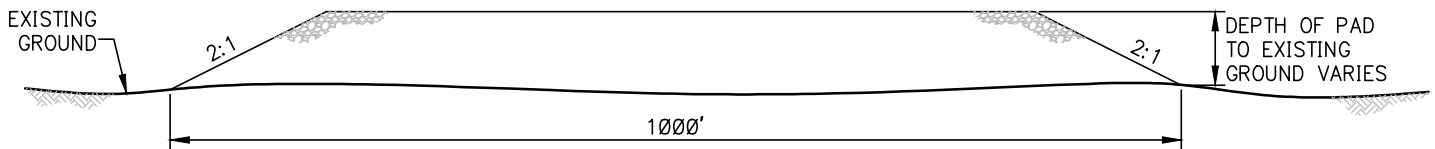
TYPICAL

FIGURE E-90

ALASKA LNG



ELEVATION AA
NOT TO SCALE



ELEVATION BB
NOT TO SCALE

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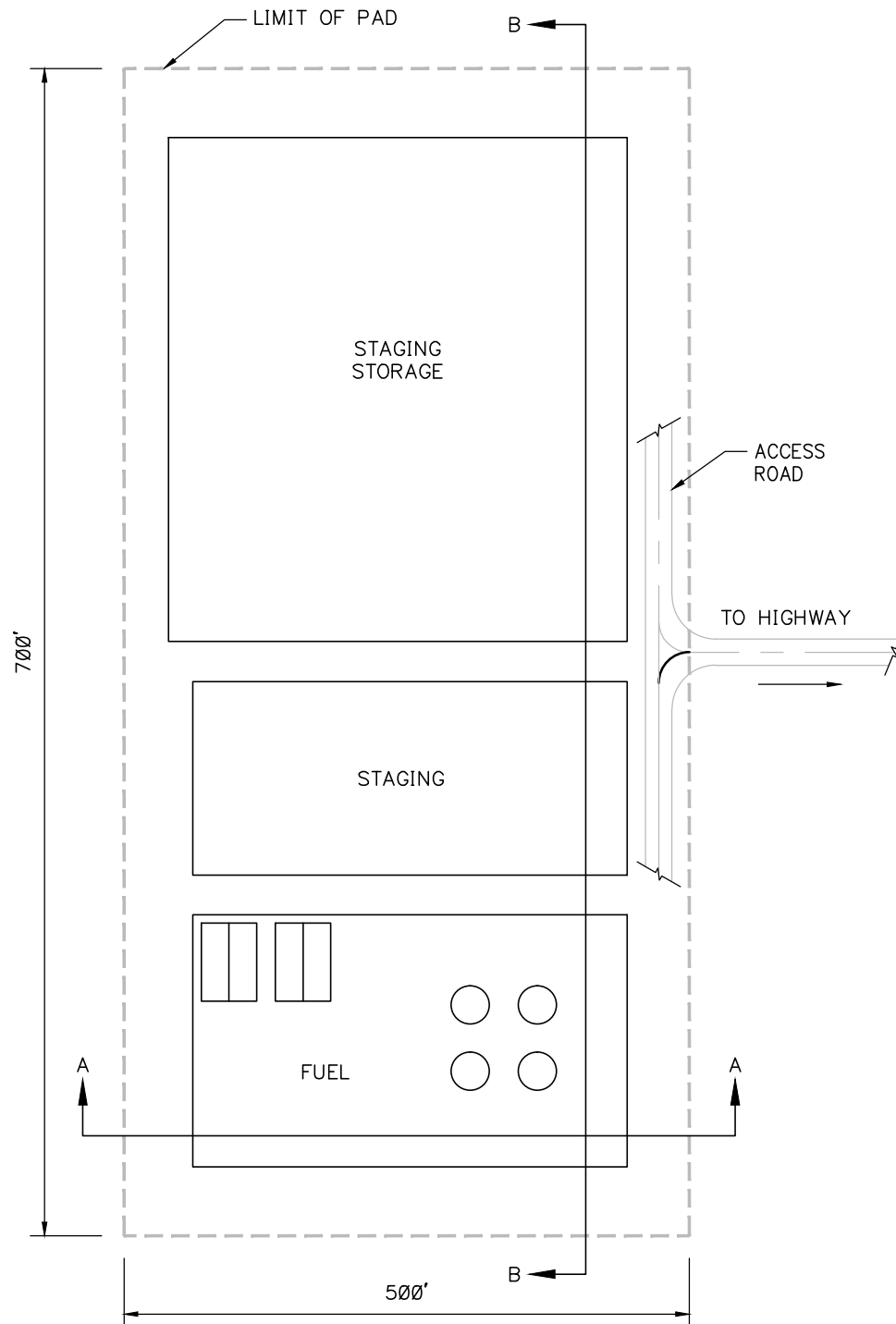
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VERY LARGE STANDALONE
PIPE STORAGE YARD -
15.6 ACRES ELEVATION

TYPICAL FIGURE E-90A

ALASKA LNG



NOTE:

1. ALL STAND ALONE CONTRACTOR YARDS WILL MAINTAIN AN 8 ACRE FOOTPRINT. HOWEVER, DIMENSIONS WILL VARY IN SOME CASES.

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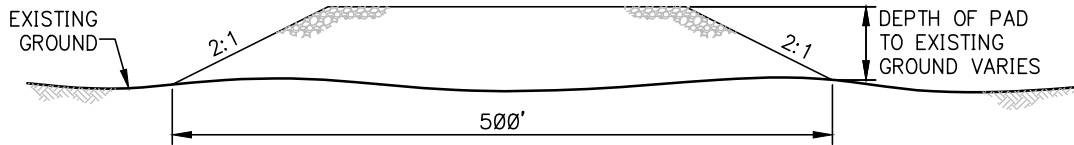
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**STANDALONE CONTRACTOR
YARD - 8 ACRES**

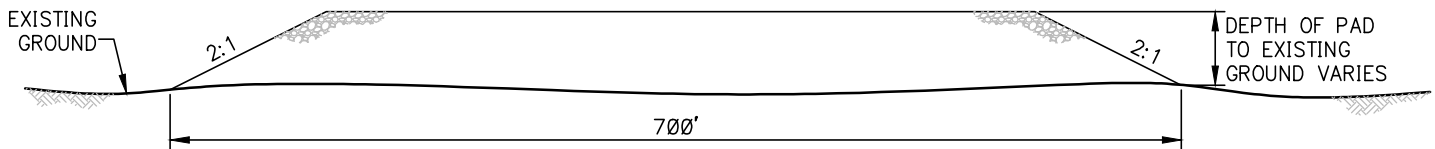
TYPICAL

FIGURE E-91

ALASKA LNG



ELEVATION AA
NOT TO SCALE



ELEVATION BB
NOT TO SCALE

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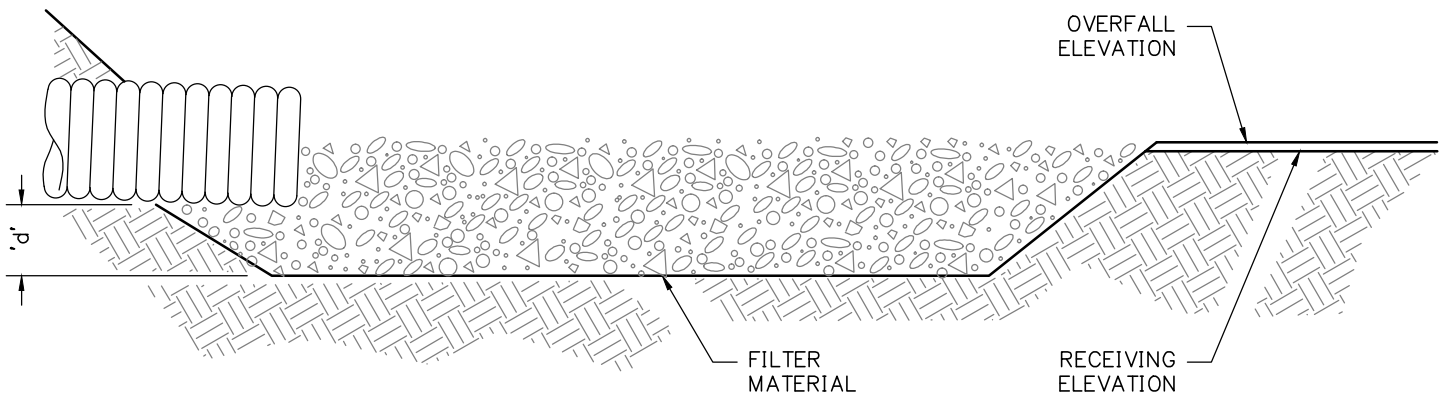
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STANDALONE CONTRACTOR
YARD - 8 ACRES
ELEVATION

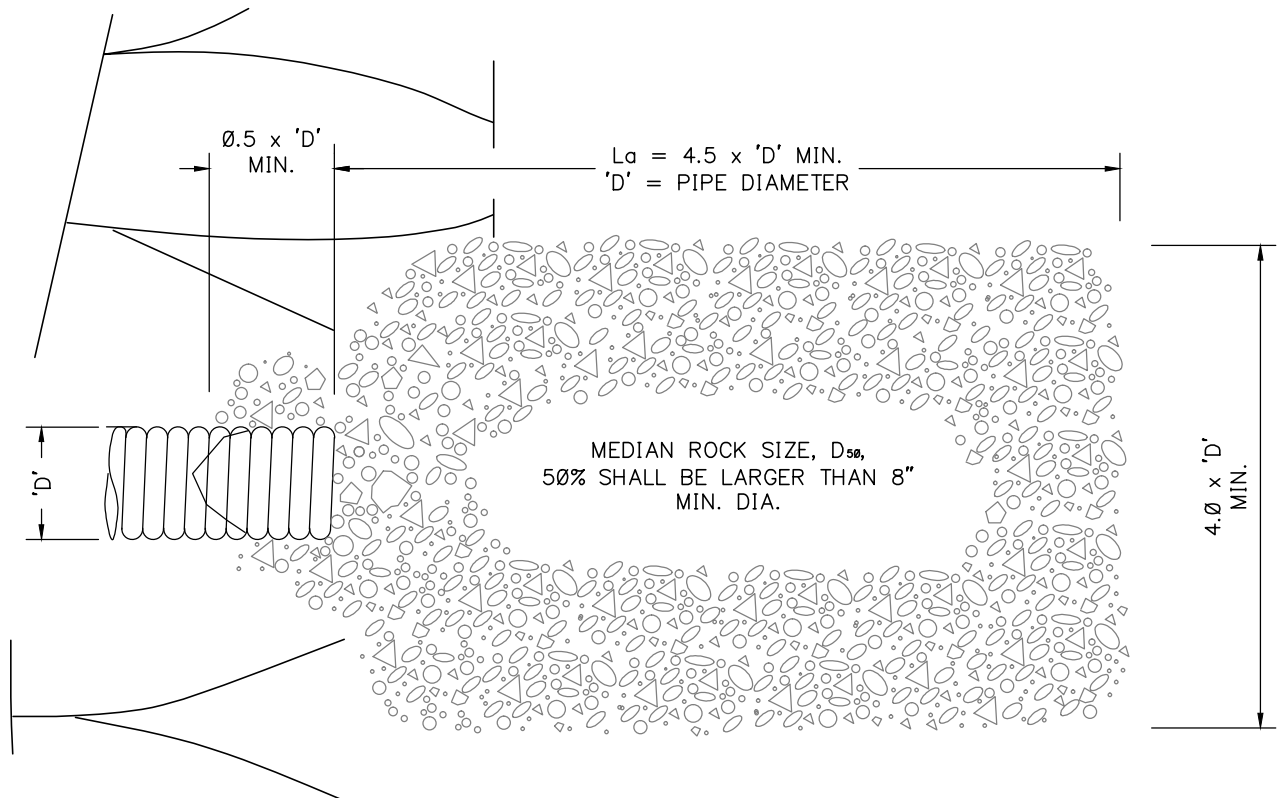
TYPICAL FIGURE E-91A

ALASKA LNG



('d') MINIMUM THICKNESS = 12". (i.e. $1.5 \times D_{50}$) FOR $D_{50} = 8"$.

SECTION



PLAN

NOTES:

1. 'La' = LENGTH OF APRON. DISTANCE 'La' SHALL BE OF SUFFICIENT LENGTH TO DISSIPATE ENERGY.
2. APRON SHALL BE SET AT A ZERO GRADE AND ALIGNED STRAIGHT.
3. FILTER MATERIAL SHALL BE FILTER FABRIC OR 6" THICK MINIMUM GRADED GRAVEL LAYER.

PRELIMINARY &
SUBJECT TO CHANGE.
ALL DRAWINGS AND
DIMENSIONS TYPICAL



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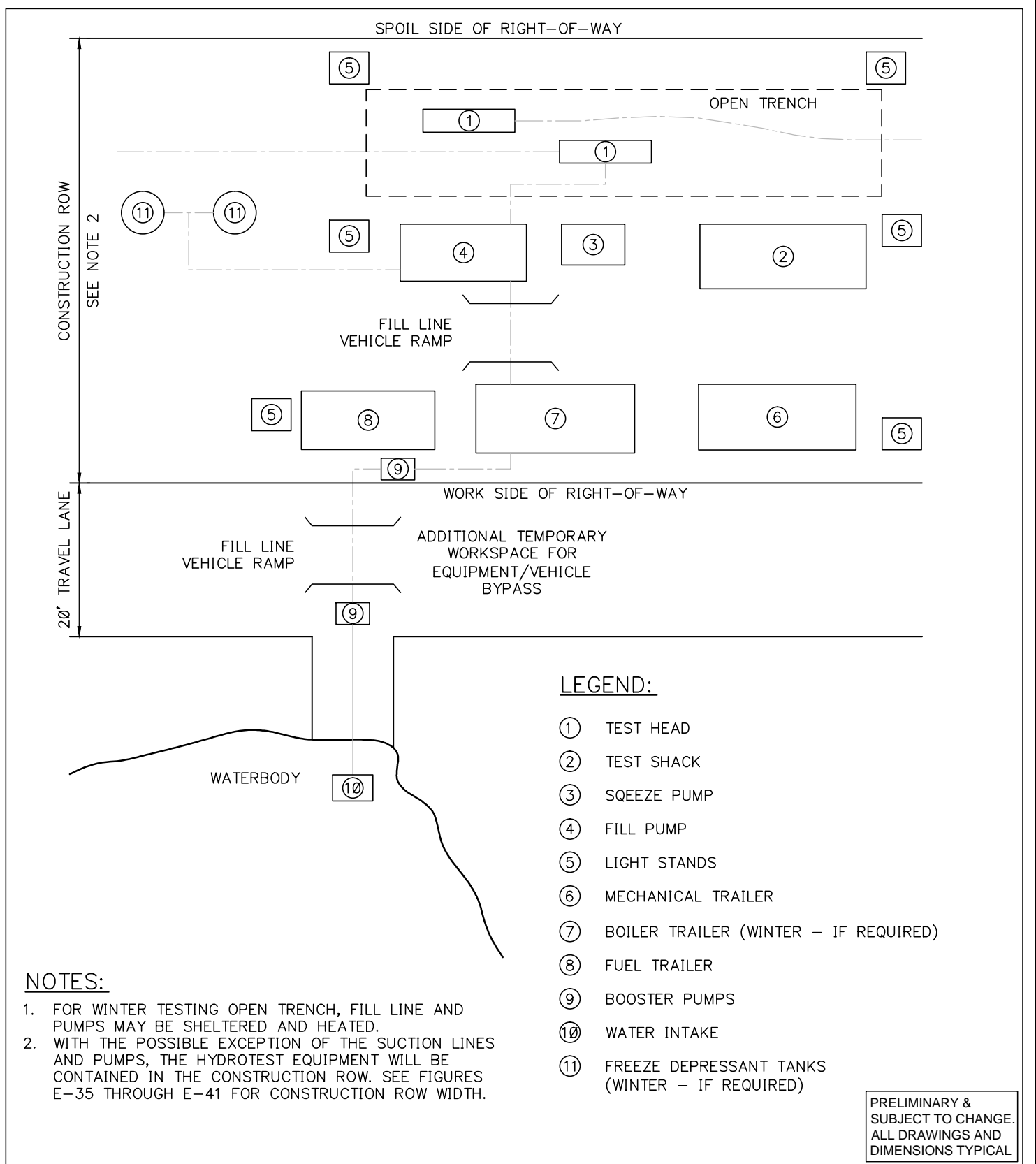
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CONSTRUCTION - WATER DISCHARGE SITE

TYPICAL

FIGURE E-92

ALASKA LNG



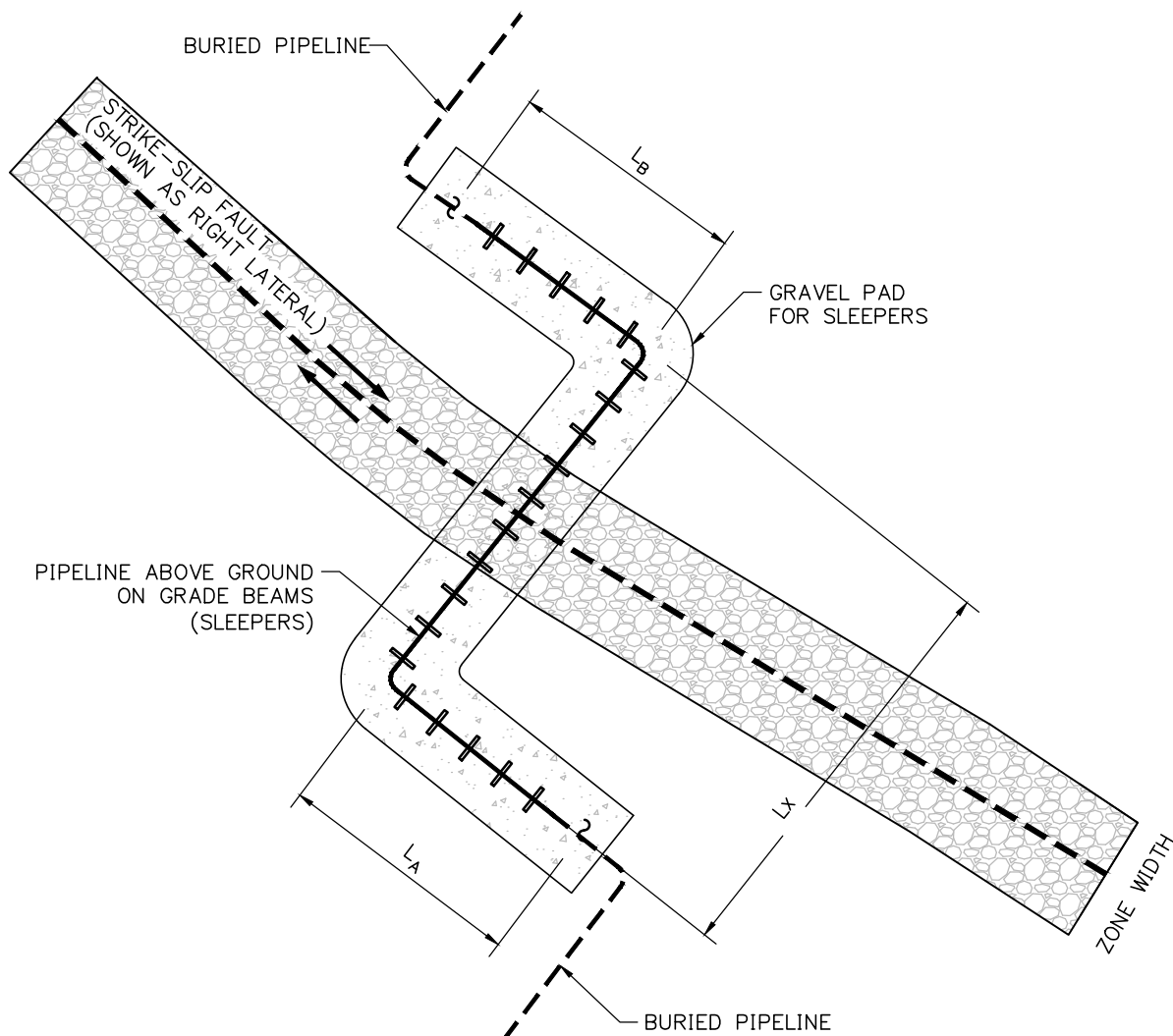
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**CONSTRUCTION -
HYDROSTATIC TEST
POINT**

TYPICAL FIGURE E-93

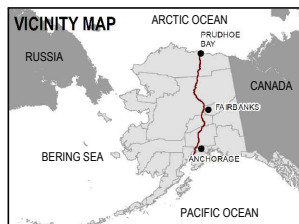
ALASKA LNG



NOTES:

1. "ZEE" CONFIGURATION MAY BE OPPOSITE HAND.
2. DESIGN PARAMETERS TO BE DETERMINED ON A SITE SPECIFIC BASIS INCLUDE:
 - TRANSITION LEGS, L_A AND L_B
 - CROSSING LEG, L_X
 - SLEEPER SPACING
 - SLEEPER BEAM LENGTH
 - PIPE SHOE LENGTH
 - TYPE AND THICKNESS OF GRANULAR PAD TO SUPPORT SLEEPERS
3. SEE FIGURE E-96 FOR TYPICAL ELEVATION.

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ALL DRAWINGS AND
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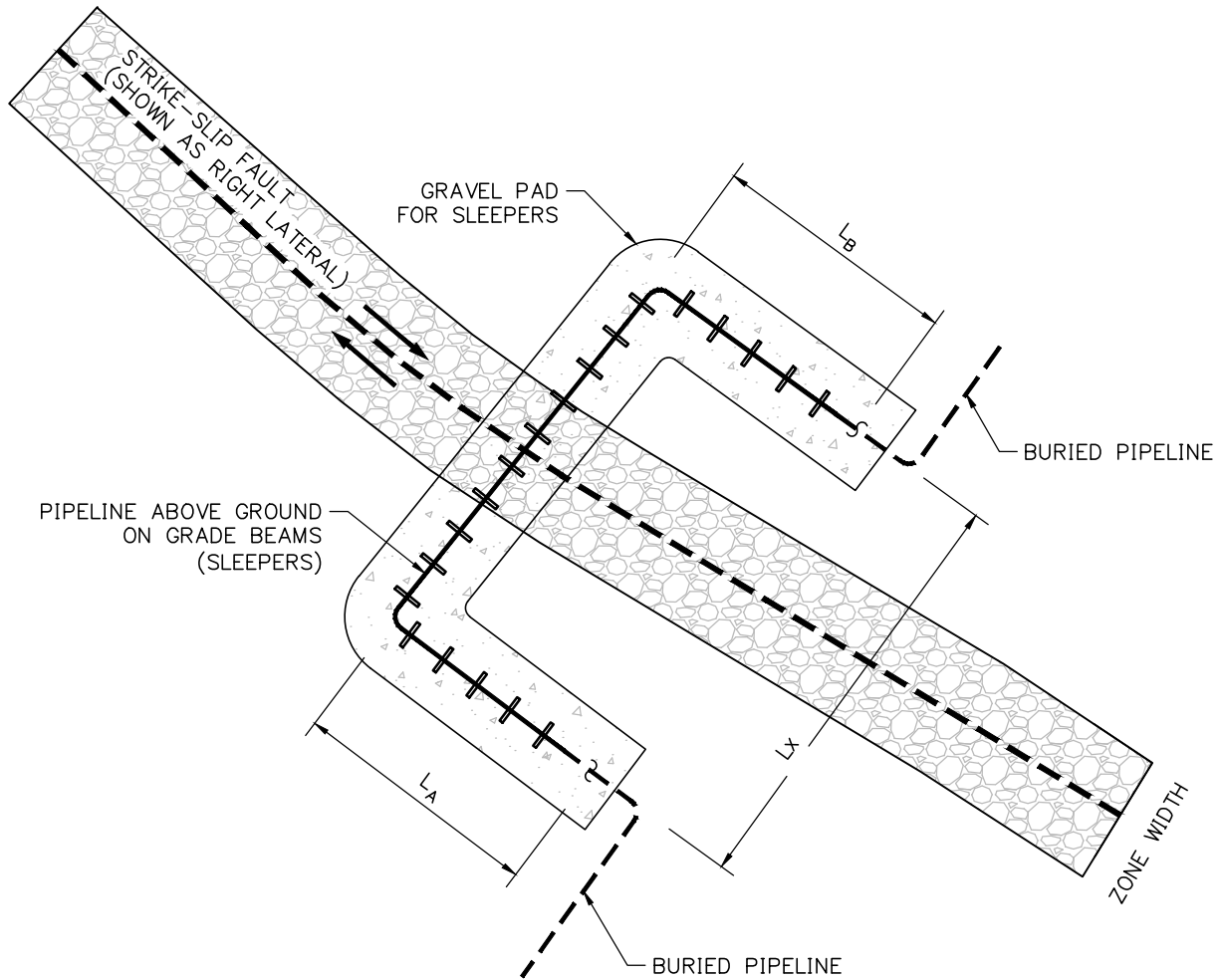
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CONCEPTUAL "ZEE" FAULT CROSSING DESIGN - STRIKE-SLIP FAULTS

TYPICAL

FIGURE E-94

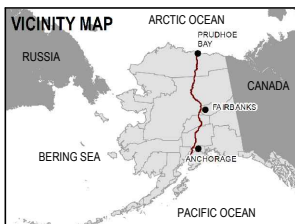
ALASKA LNG



NOTES:

1. "U" CONFIGURATION MAY BE OPPOSITE HAND.
2. DESIGN PARAMETERS TO BE DETERMINED ON A SITE SPECIFIC BASIS INCLUDE:
 - TRANSITION LEGS, L_A AND L_B
 - CROSSING LEG, L_X
 - SLEEPER SPACING
 - SLEEPER BEAM LENGTH
 - PIPE SHOE LENGTH
 - TYPE AND THICKNESS OF GRANULAR PAD TO SUPPORT SLEEPERS
3. SEE FIGURE E-96 FOR TYPICAL ELEVATION.

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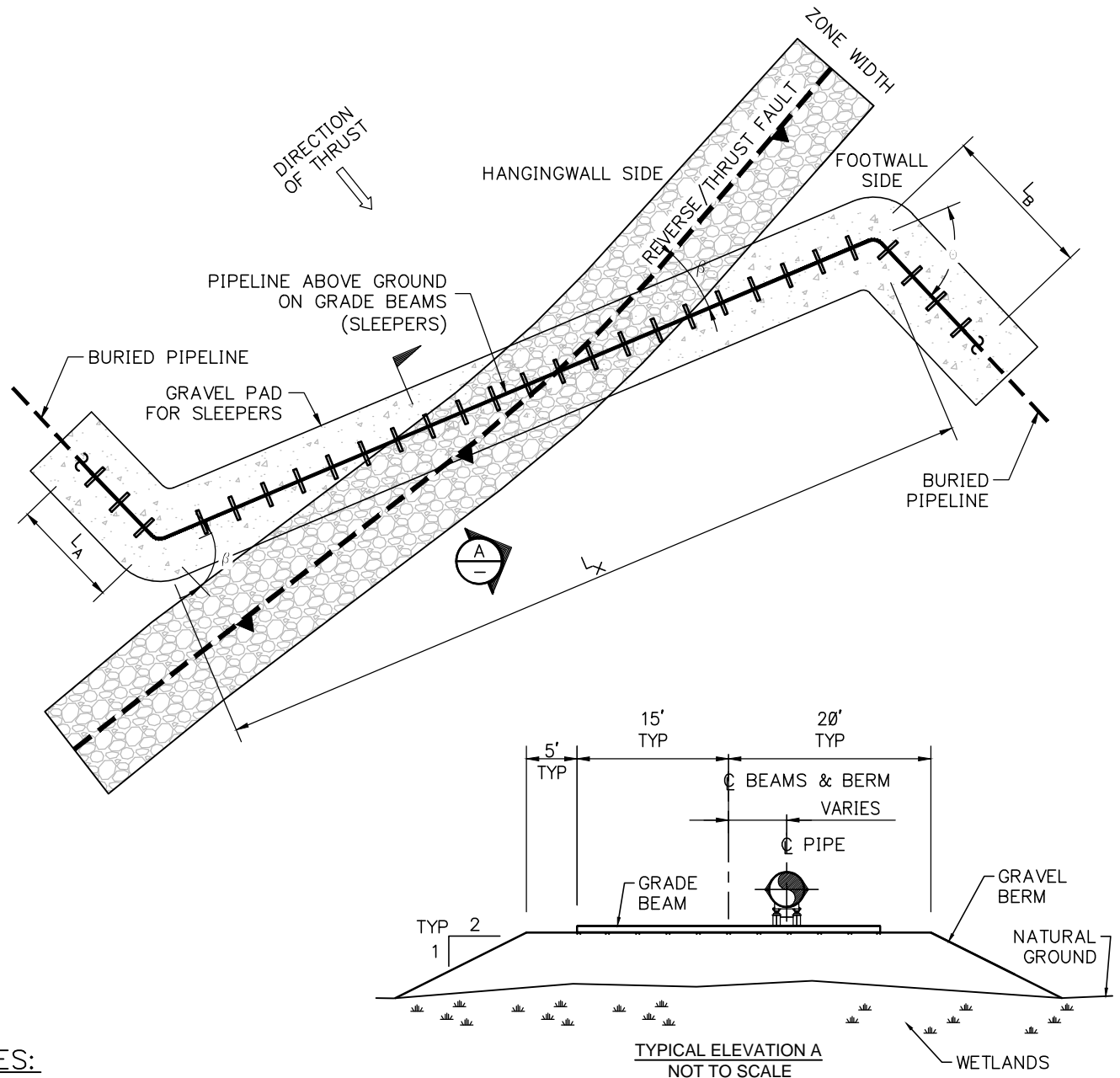
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SHEET:	1 OF 1

CONCEPTUAL "U" FAULT CROSSING DESIGN - STRIKE-SLIP FAULTS

TYPICAL

FIGURE E-95

ALASKA LNG



NOTES:

- "ZEE" CONFIGURATION MAY BE OPPOSITE HAND.
- DESIGN PARAMETERS TO BE DETERMINED ON A SITE SPECIFIC BASIS INCLUDE:
 - TRANSITION LEGS, L AND L
 - CROSSING LEG, L
 - SLEEPER SPACING
 - SLEEPER BEAM LENGTH
 - PIPE SHOE LENGTH
 - TYPE AND THICKNESS OF GRANULAR PAD TO SUPPORT SLEEPERS
 - INTERSECTION ANGLE, β
 - BEND ANGLE, θ

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SUBJECT TO CHANGE.
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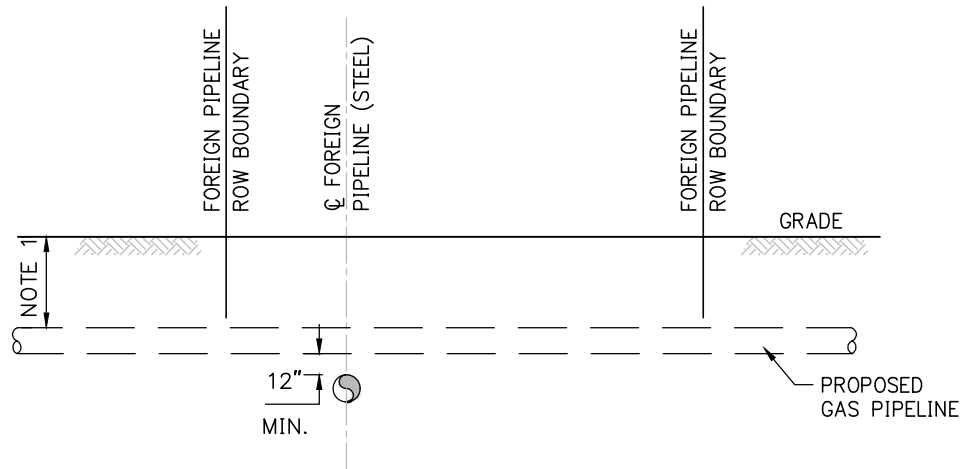
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CONCEPTUAL "ZEE" FAULT CROSSING DESIGN - REVERSE OR THRUST FAULTS

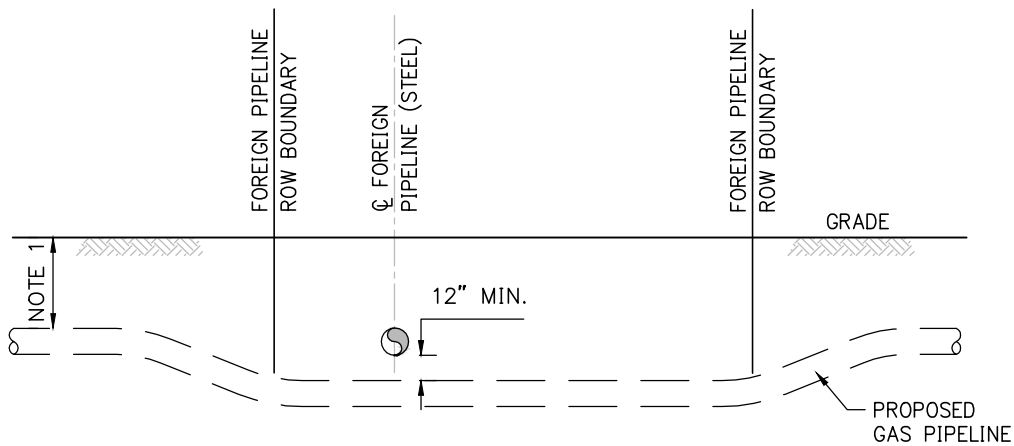
TYPICAL FIGURE E-96

ALASKA LNG



DETAIL "A"

NEW PIPELINE IS PLACED OVER
EXISTING FOREIGN PIPELINE



DETAIL "B"

NEW PIPELINE IS PLACED UNDER
EXISTING FOREIGN PIPELINE

NOTE:

1. SEE FIGURE E-32 FOR MINIMUM DEPTH OF COVER.

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ALL DRAWINGS AND
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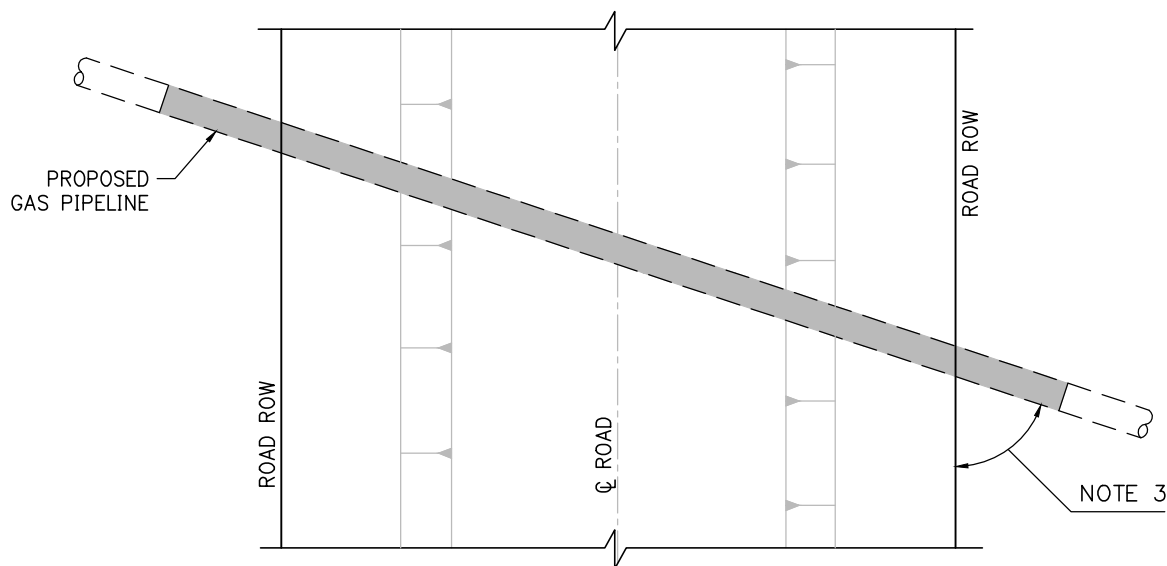
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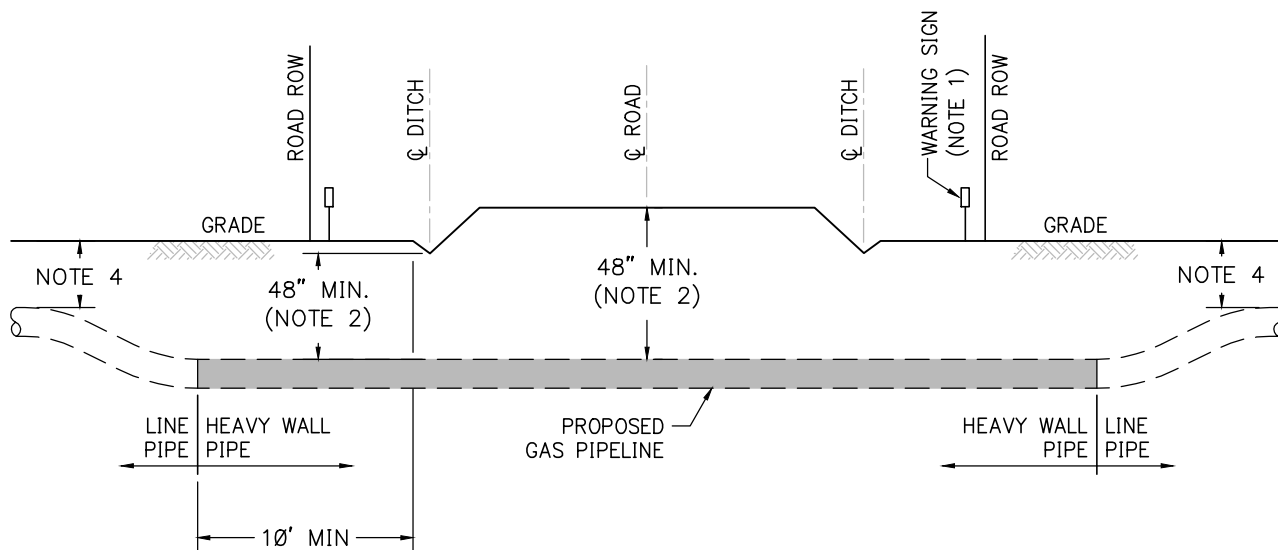
**FOREIGN PIPELINE AND
UTILITY CROSSINGS -
FOREIGN PIPELINES**

TYPICAL FIGURE E-97

ALASKA LNG



PLAN



PROFILE

NOTES:

1. WARNING SIGNS TO BE INSTALLED ON EACH SIDE OF ROAD ROW.
2. MINIMUM DEPTHS OF COVER SHOWN, CROSSING AGREEMENTS MAY DICTATE ADDITIONAL DEPTH.
3. CROSSING ANGLE TO BE AS CLOSE AS PRACTICAL TO 90° OR AS SPECIFIED IN THE CROSSING AGREEMENT.
4. SEE FIGURE E-32 FOR MINIMUM DEPTH OF COVER.

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ALL DRAWINGS AND
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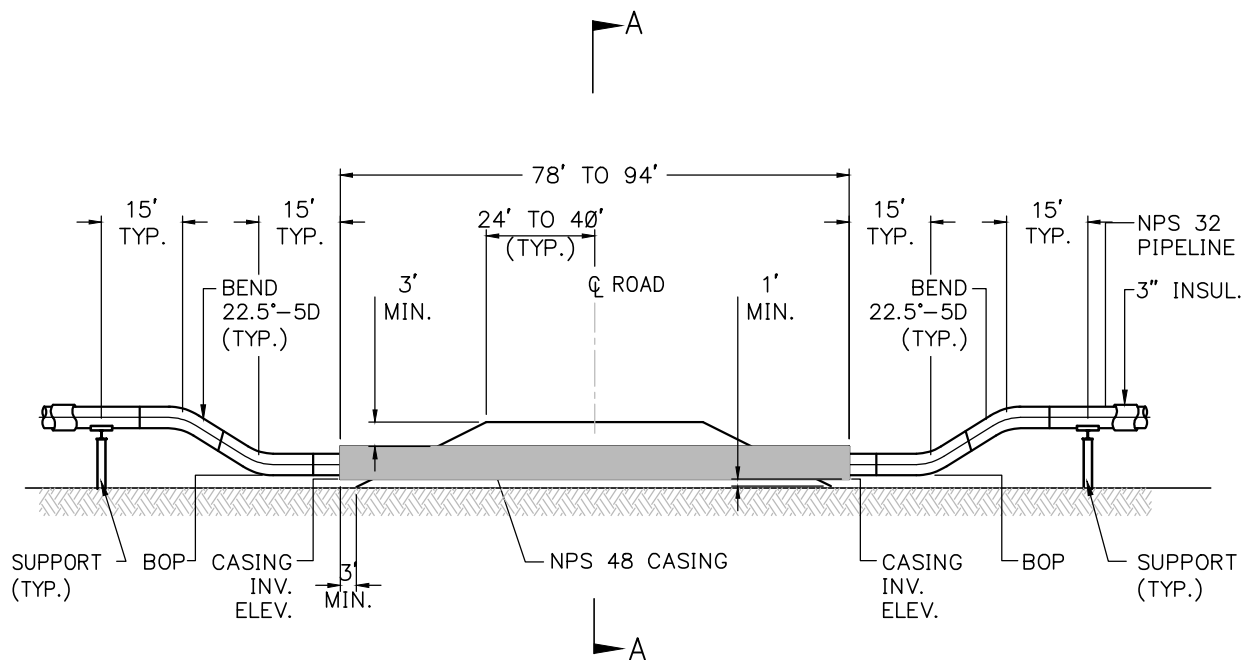
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ROAD CROSSING

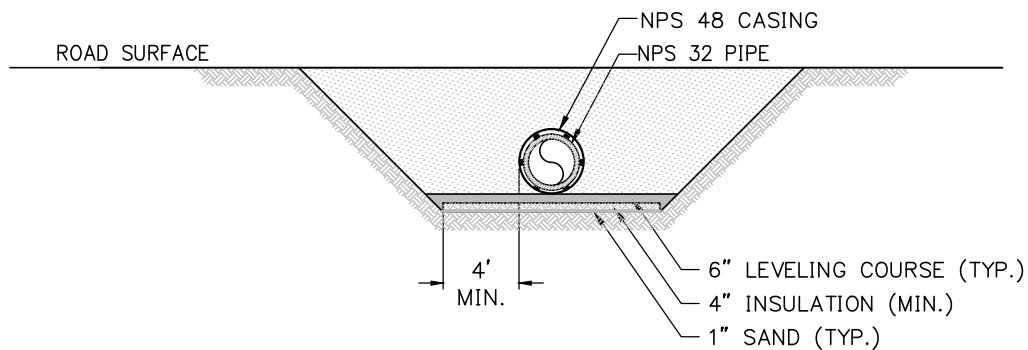
TYPICAL

FIGURE E-99

ALASKA LNG



ROAD CROSS ELEVATION



ROAD CROSS-SECTION 'A-A'

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SUBJECT TO CHANGE.
ALL DRAWINGS AND
DIMENSIONS TYPICAL



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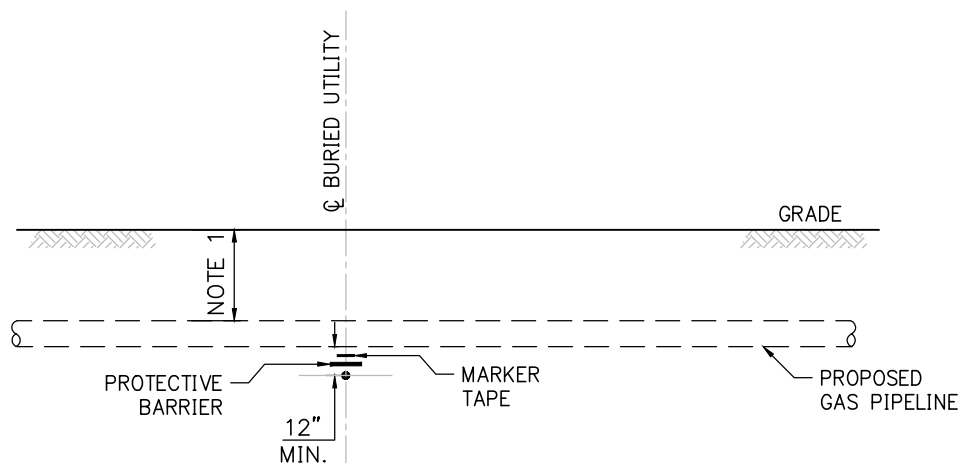
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DATE: 2017-04-14 SHEET: 1 OF 1

PTTL - ROAD CROSSING

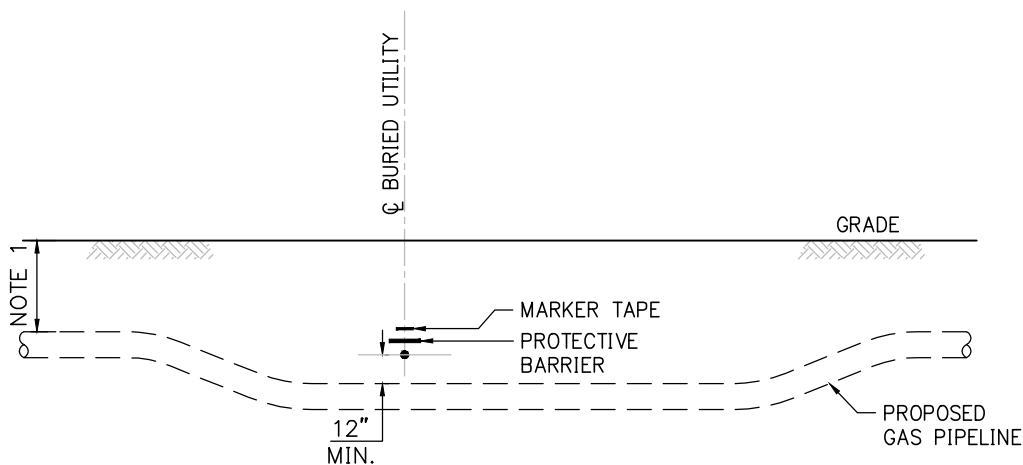
TYPICAL FIGURE E-100

ALASKA LNG



DETAIL "A"

NEW PIPELINE IS PLACED OVER
EXISTING BURIED UTILITY



DETAIL "B"

NEW PIPELINE IS PLACED UNDER
EXISTING BURIED UTILITY

NOTE:

1. SEE FIGURE E-32 FOR MINIMUM DEPTH OF TRENCH.

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ALL DRAWINGS AND
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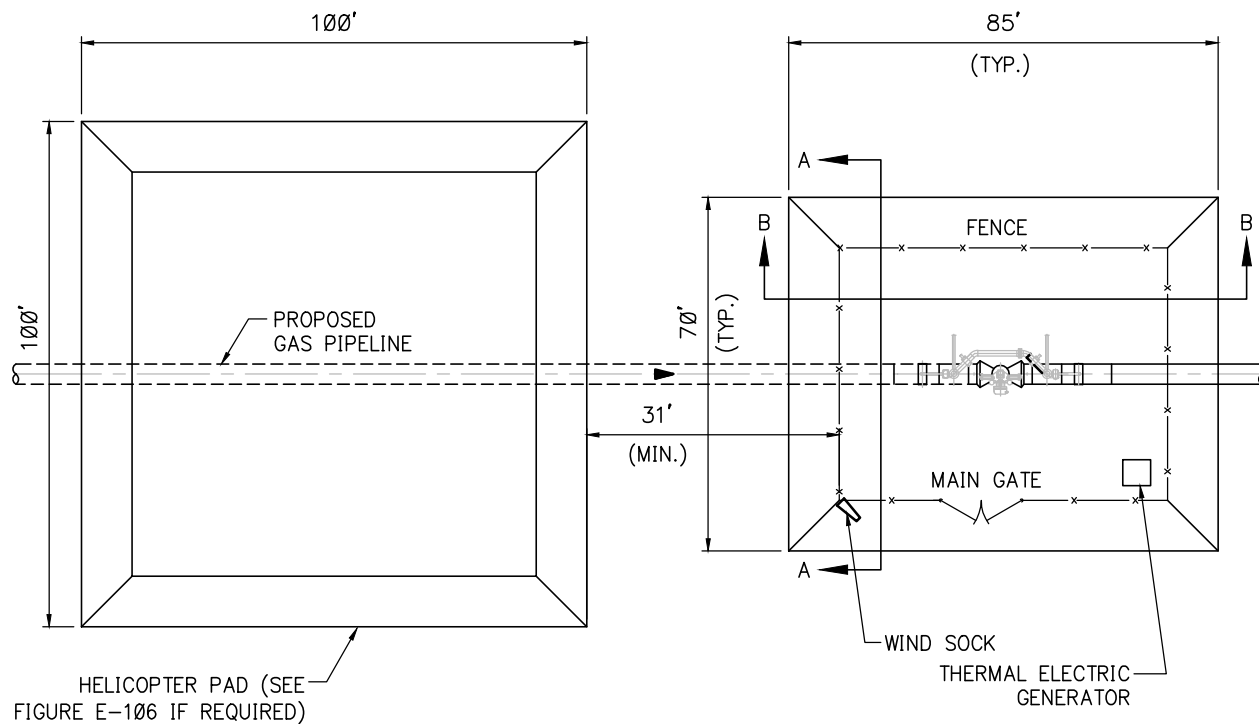
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FOREIGN PIPELINE AND UTILITY CROSSINGS - BURIED UTILITY

TYPICAL FIGURE E-101

ALASKA LNG



PLAN

NOTES:

1. A HELICOPTER PAD WILL BE PROVIDED FOR ALL BLOCK VALVE LOCATIONS.
2. A THERMAL ELECTRIC GENERATOR UNIT WILL BE PROVIDED FOR AUTOMATED VALVE OPERATION AND CATHODIC PROTECTION WHERE CONVENTIONAL POWER IS NOT AVAILABLE.

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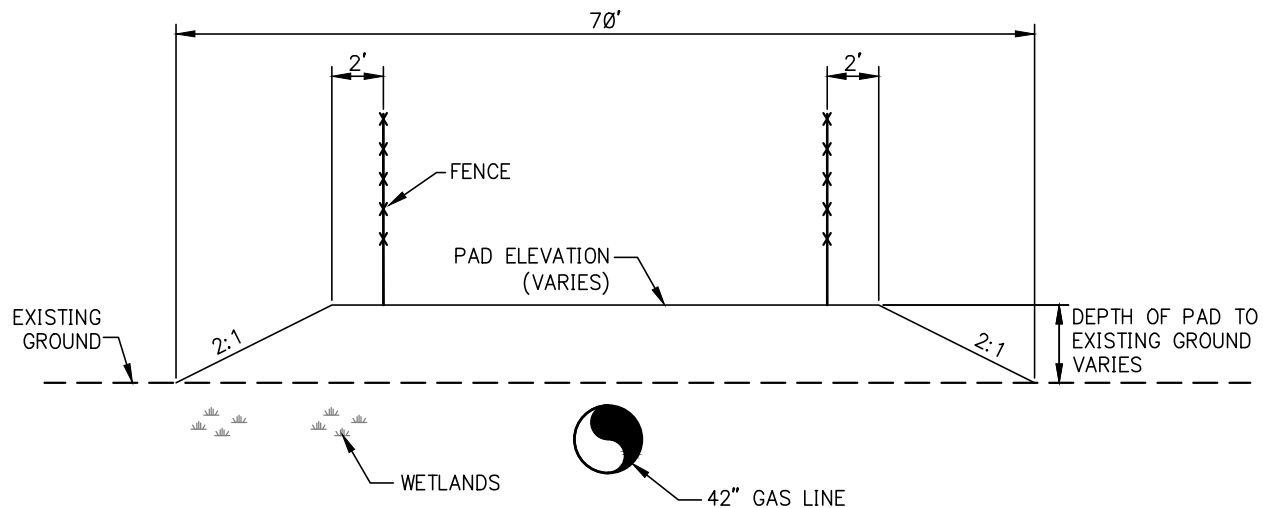
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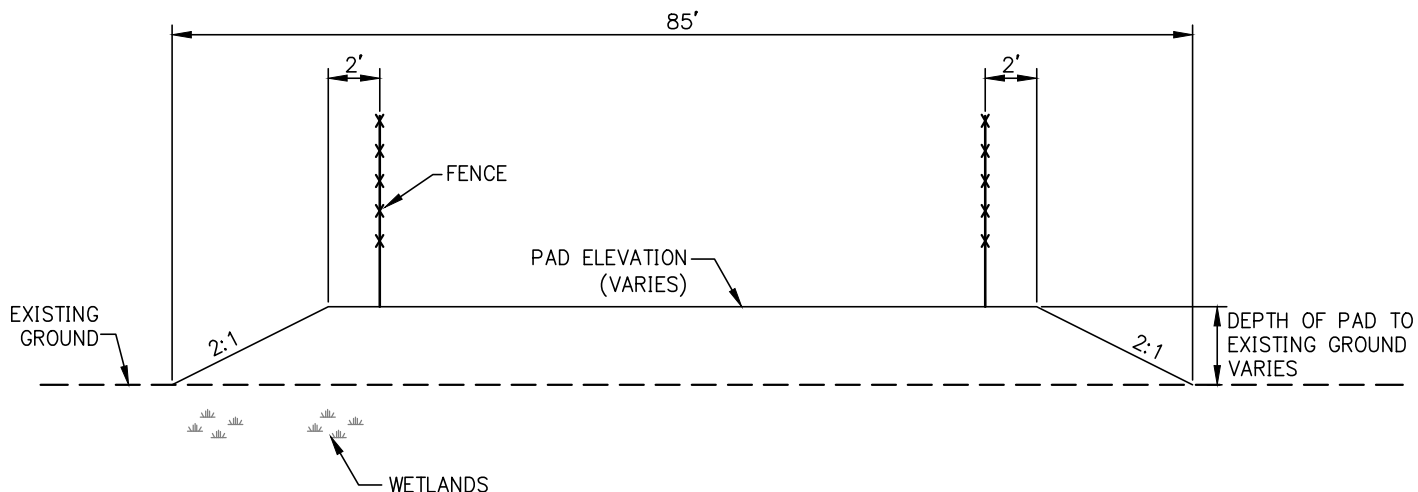
PIPELINE FACILITIES -
MAINLINE BLOCK VALVE
PLOT PLAN

TYPICAL FIGURE E-102

ALASKA LNG



ELEVATION AA
NOT TO SCALE



ELEVATION BB
NOT TO SCALE

NOTES:

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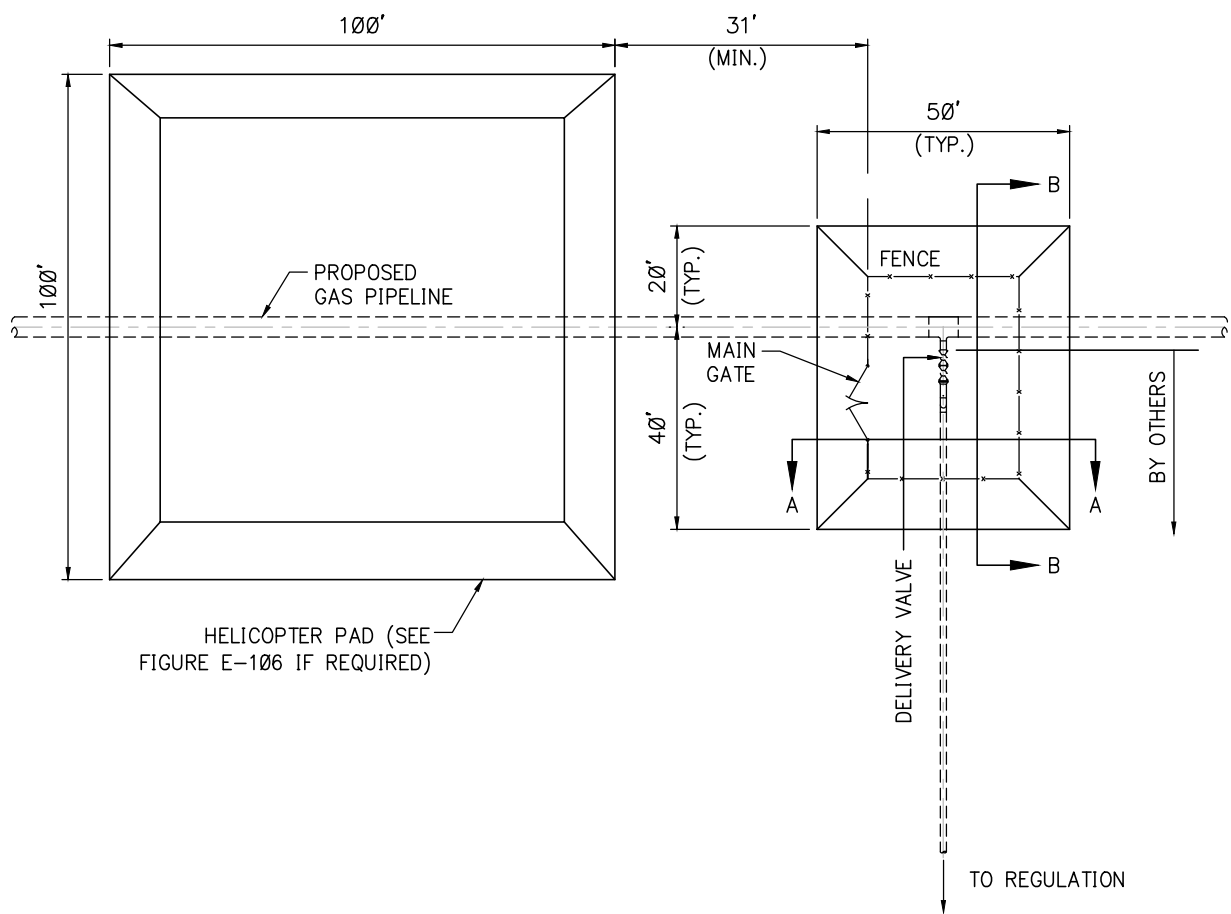
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PIPELINE FACILITIES -
MAINLINE BLOCK VALVE
ELEVATION

TYPICAL FIGURE E-102A

ALASKA LNG

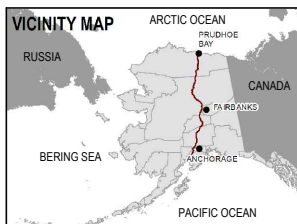


PLAN

NOTES:

1. A HELICOPTER PAD WILL BE PROVIDED FOR REMOTE DELIVERY POINT TAKE-OFFS WITH NO ACCESS.
2. TAKE-OFF CONNECTIONS SIZE VARY.

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SUBJECT TO CHANGE.
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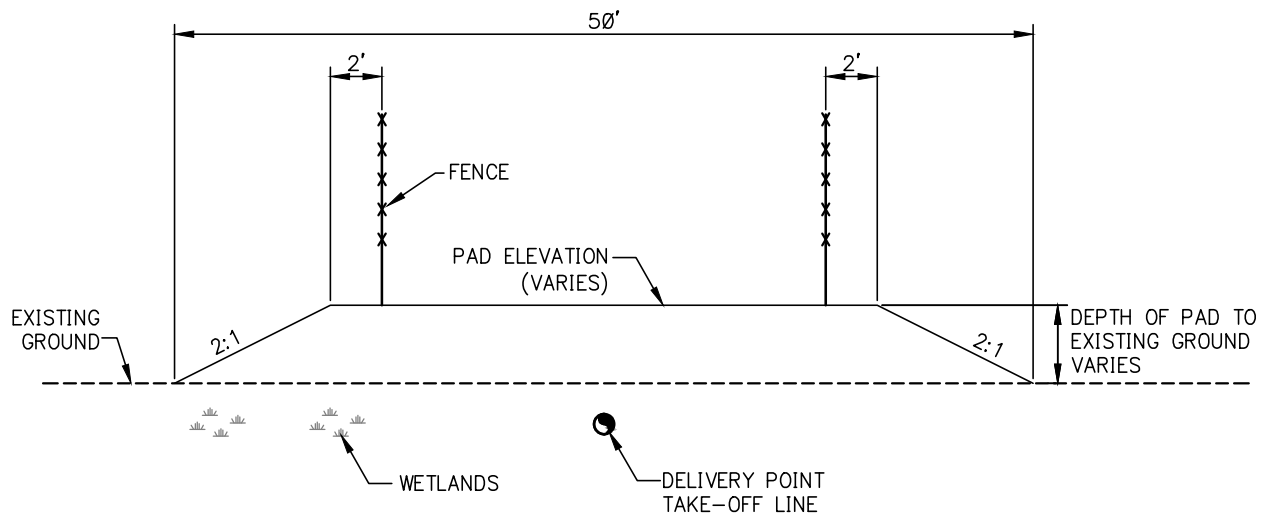
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PIPELINE FACILITIES -
TEE & VALVE GAS DELIVERY
POINT PLOT PLAN

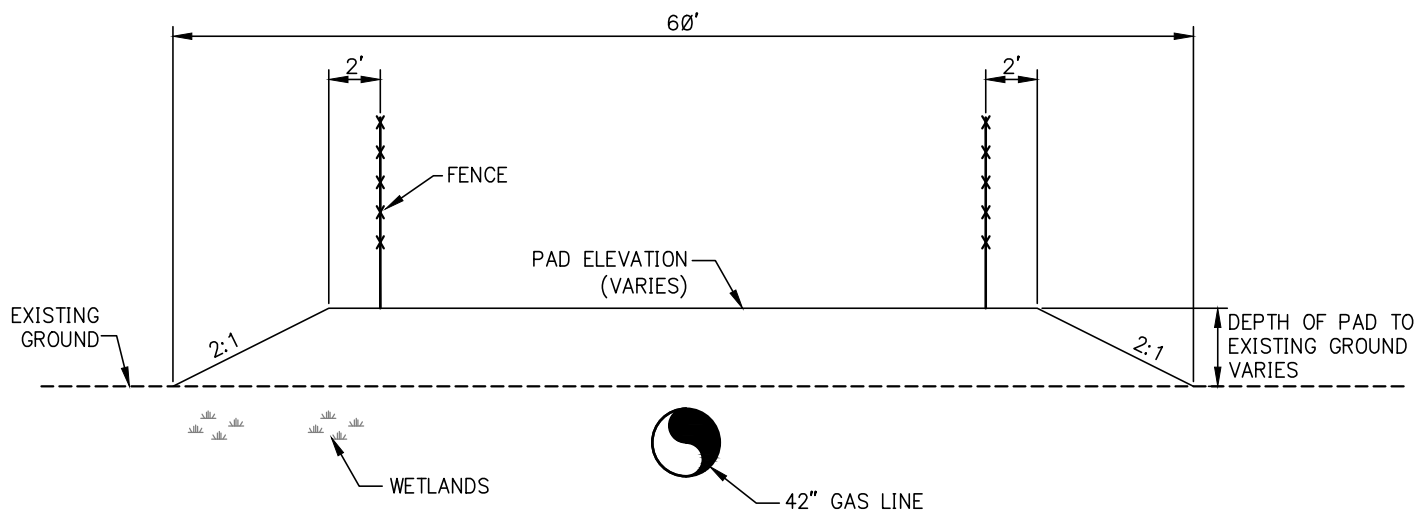
TYPICAL

FIGURE E-103

ALASKA LNG



ELEVATION AA
NOT TO SCALE



ELEVATION BB
NOT TO SCALE

NOTES:

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PIPELINE FACILITIES -
TEE & VALVE GAS DELIVERY
POINT ELEVATION

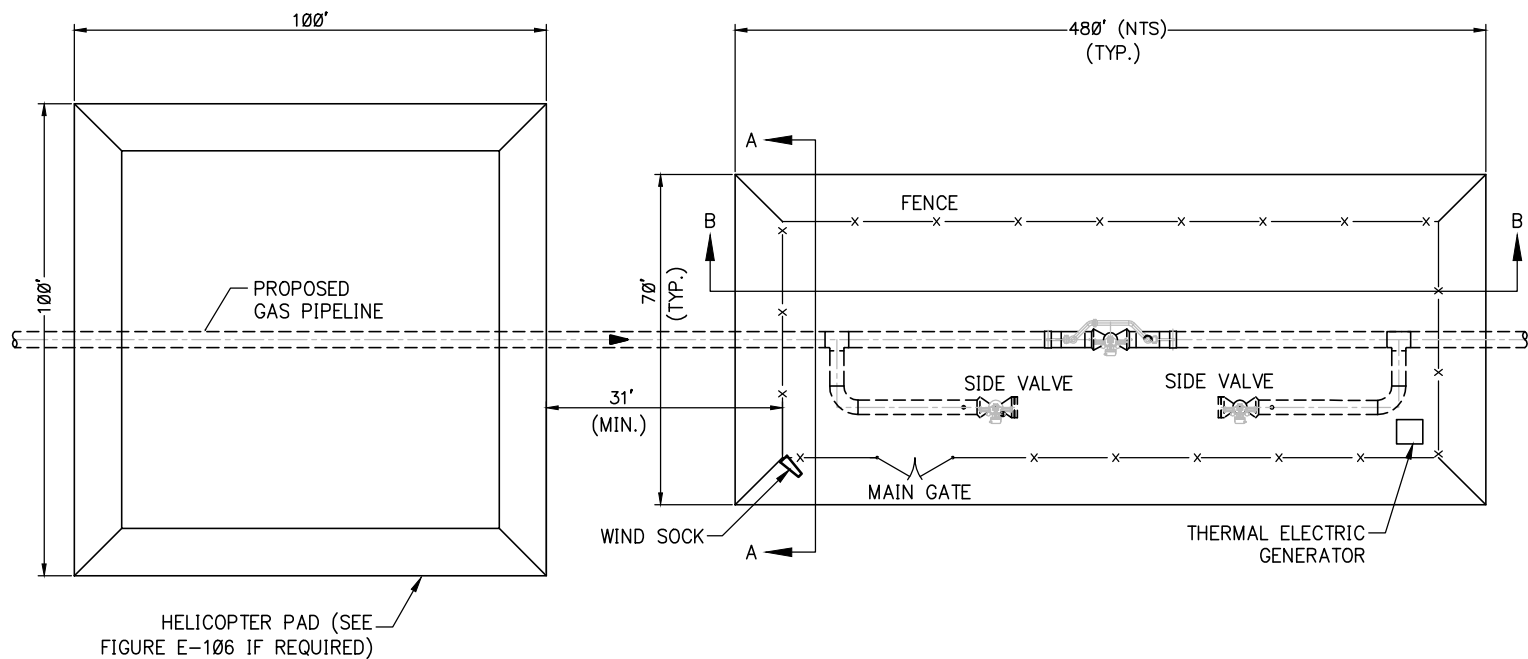
TYPICAL FIGURE E-103A

ALASKA LNG

PIPELINE FACILITIES - MLBV
AT COMPRESSOR STATIONS

TYPICAL FIGURE E-104

ALASKA LNG



PLAN

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VICINITY MAP



NOTES:

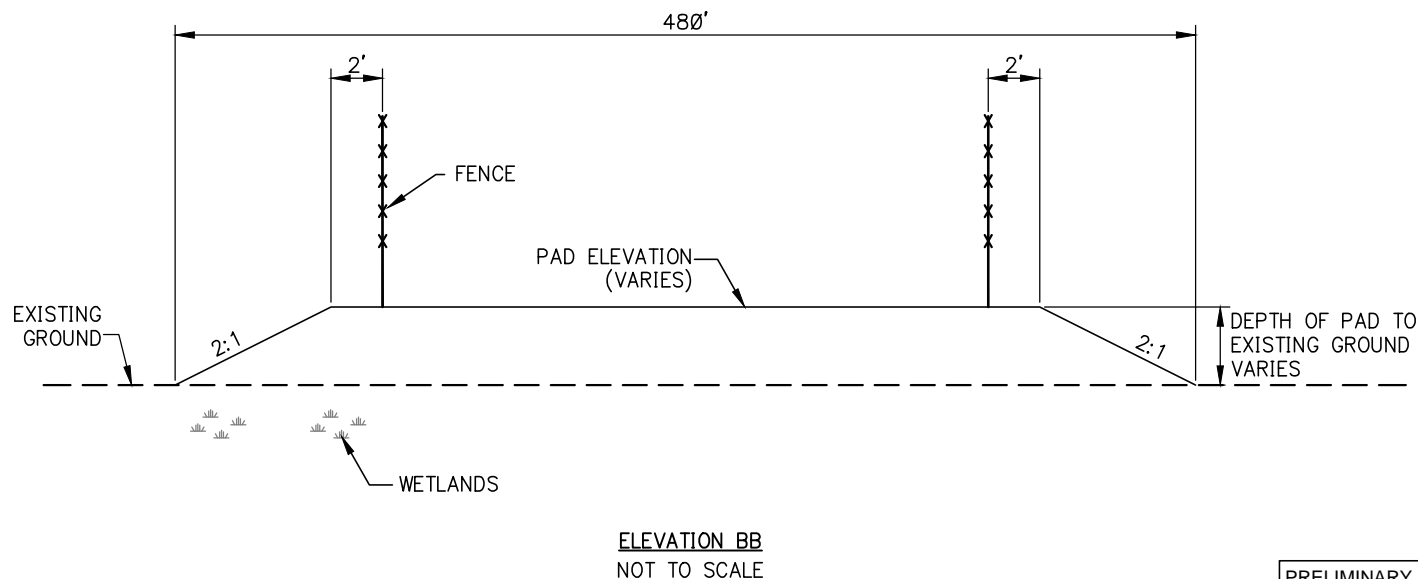
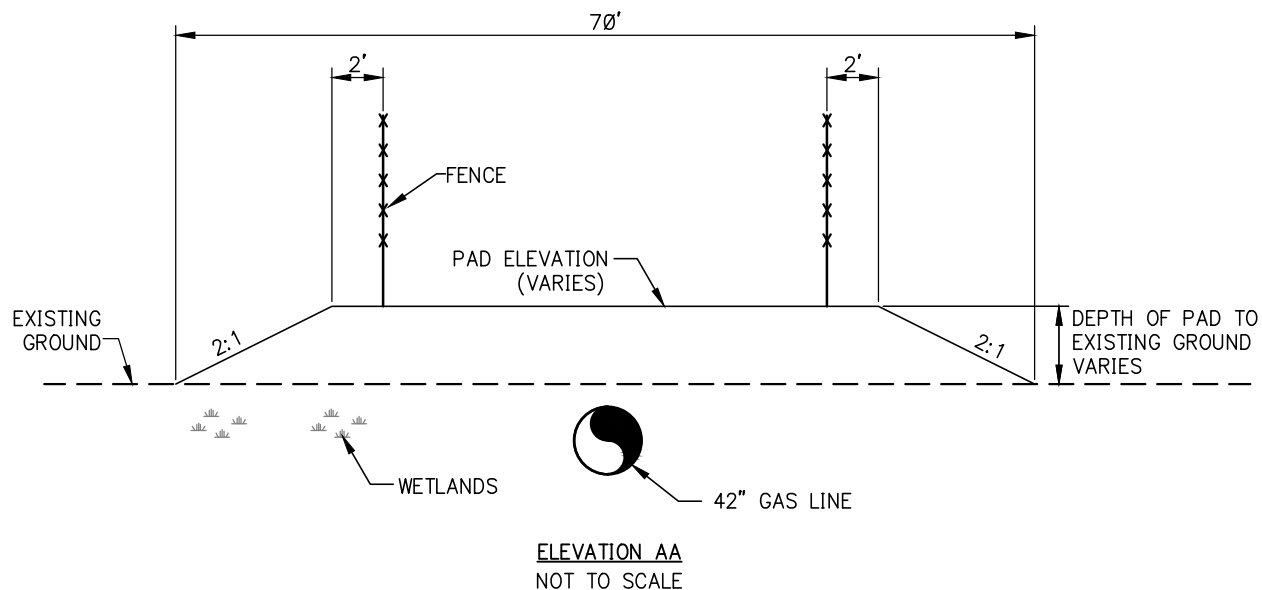
1. A THERMAL ELECTRIC GENERATOR UNIT WILL BE PROVIDED FOR AUTOMATED VALVE OPERATION AND CATHODIC PROTECTION WHERE CONVENTIONAL POWER IS NOT AVAILABLE.

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PIPELINE FACILITIES - MLBV
AT COMPRESSOR STATIONS
ELEVATION

TYPICAL FIGURE E-104A

ALASKA LNG



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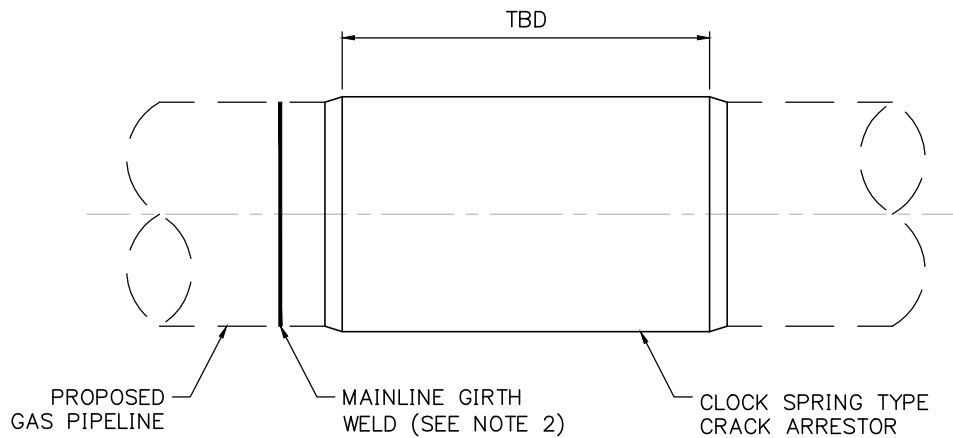
VICINITY MAP



NOTES:

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ALL DRAWINGS AND
DIMENSIONS TYPICAL



NOTES:

1. CLOCK SPRING TYPE CRACK ARRESTORS INSTALLED ON TOP OF EXTERNAL COATING AT THE COATING MILL OR OTHER SUITABLE LOCATIONS.
2. CRACK ARRESTORS SHALL BE INSTALLED AT PIPE ENDS WITH SUFFICIENT CLEARANCE NOT TO INTERFERE WITH THE WELDING OR NDE PROCESS.
3. CRACK ARRESTOR SIZE AND SPACING ARE TBD.
4. CRACK ARRESTORS WILL NOT BE USED IN AREAS WHERE PIPE IS DESIGNED FOR INTRINSIC ARREST.

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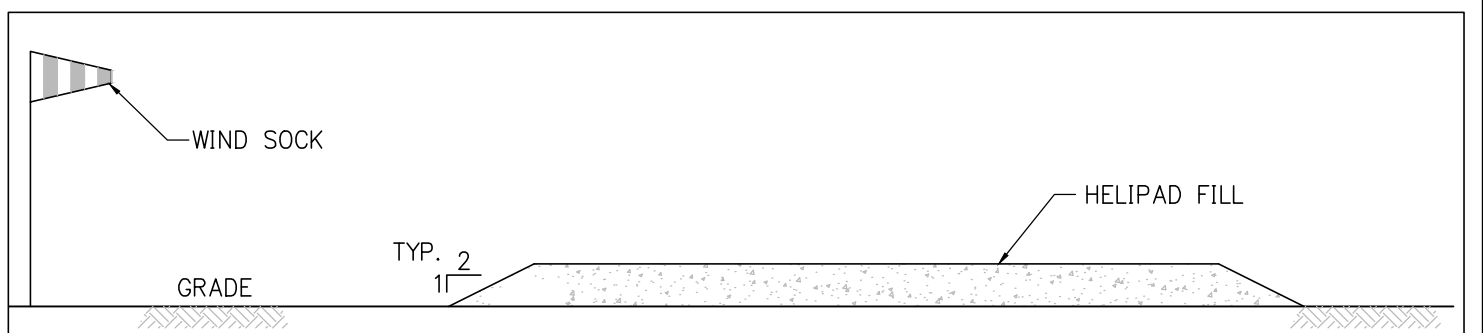
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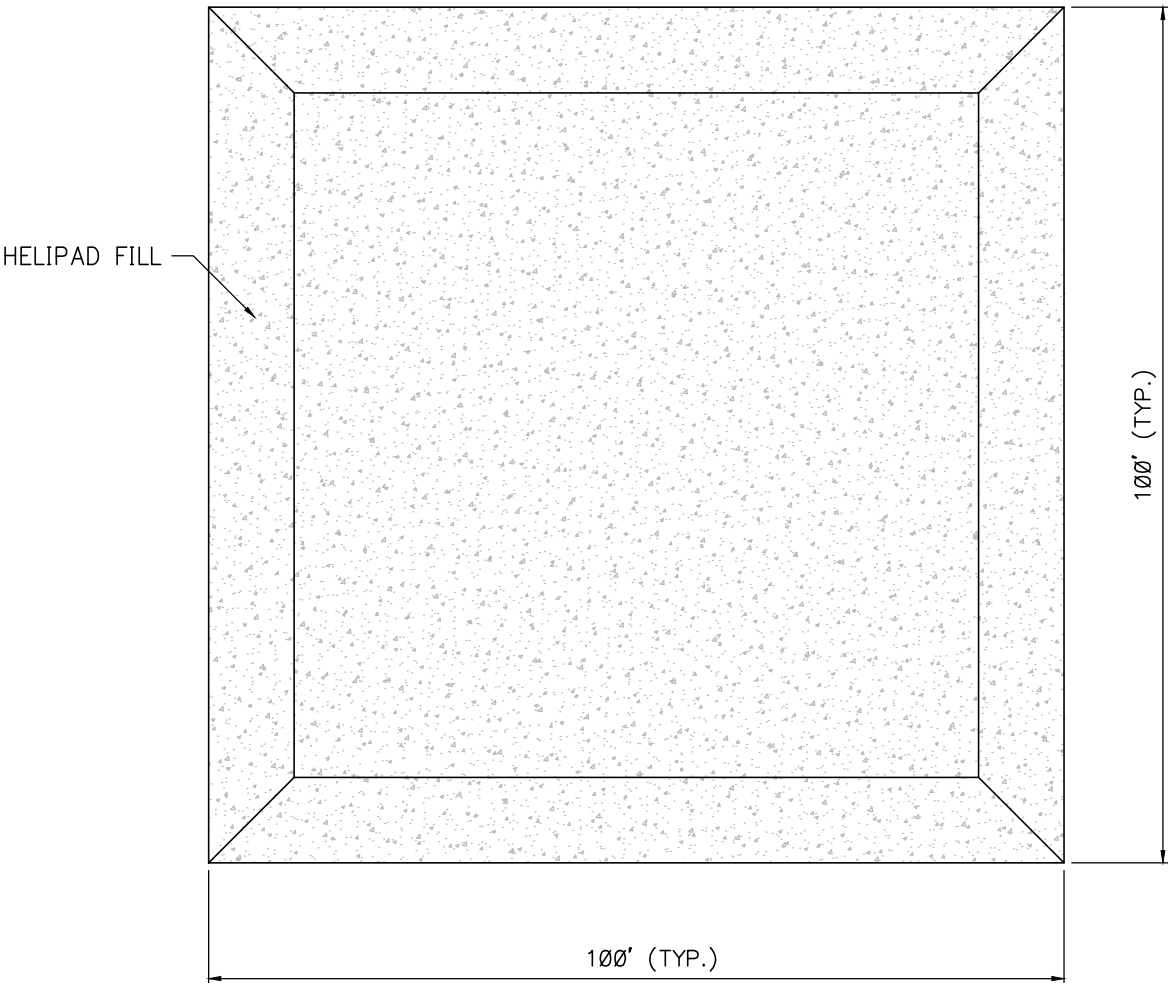
FRACTURE ARREST DEVICE - TYPICAL FRACTURE CONTROL METHOD

TYPICAL FIGURE E-105

ALASKA LNG



PROFILE



PLAN

NOTE:

- HELIPAD THICKNESS WILL DEPEND ON LOCAL GROUND CONDITIONS.

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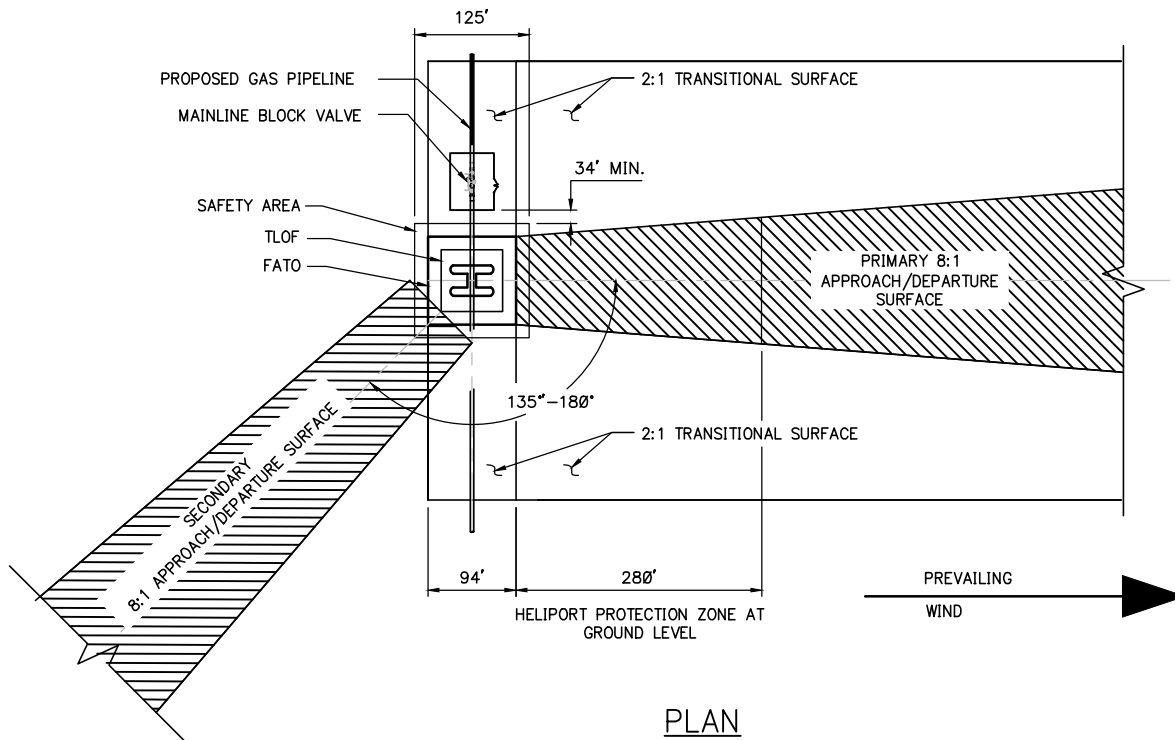
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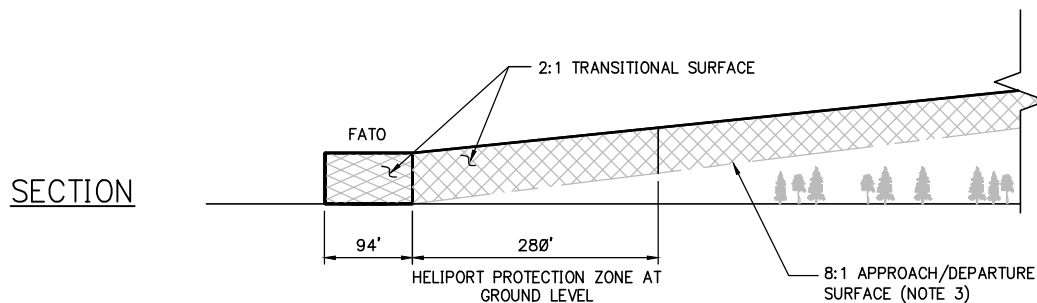
CONSTRUCTION - HELIPADS

TYPICAL FIGURE E-106

ALASKA LNG



PLAN



SECTION



8:1 APPROACH/DEPARTURE SURFACE



2:1 TRANSITIONAL SURFACE

5 ACRES CLEARING AREA

NOTES:

1. FAA ADVISORY CIRCULAR 150/5390-2C HELIPORT DESIGN PRIOR PERMISSION REQUIRED (PPR) HELIPORT.
2. DIMENSIONS ARE APPLICABLE TO BELL 214.
3. PRIMARY APPROACH/DEPARTURE SURFACE SLOPE DEPEND UPON ACTUAL SITE CONDITIONS.
4. ROUTINE VEGETATION MAINTENANCE AREA=10 ACRES.

PLANE

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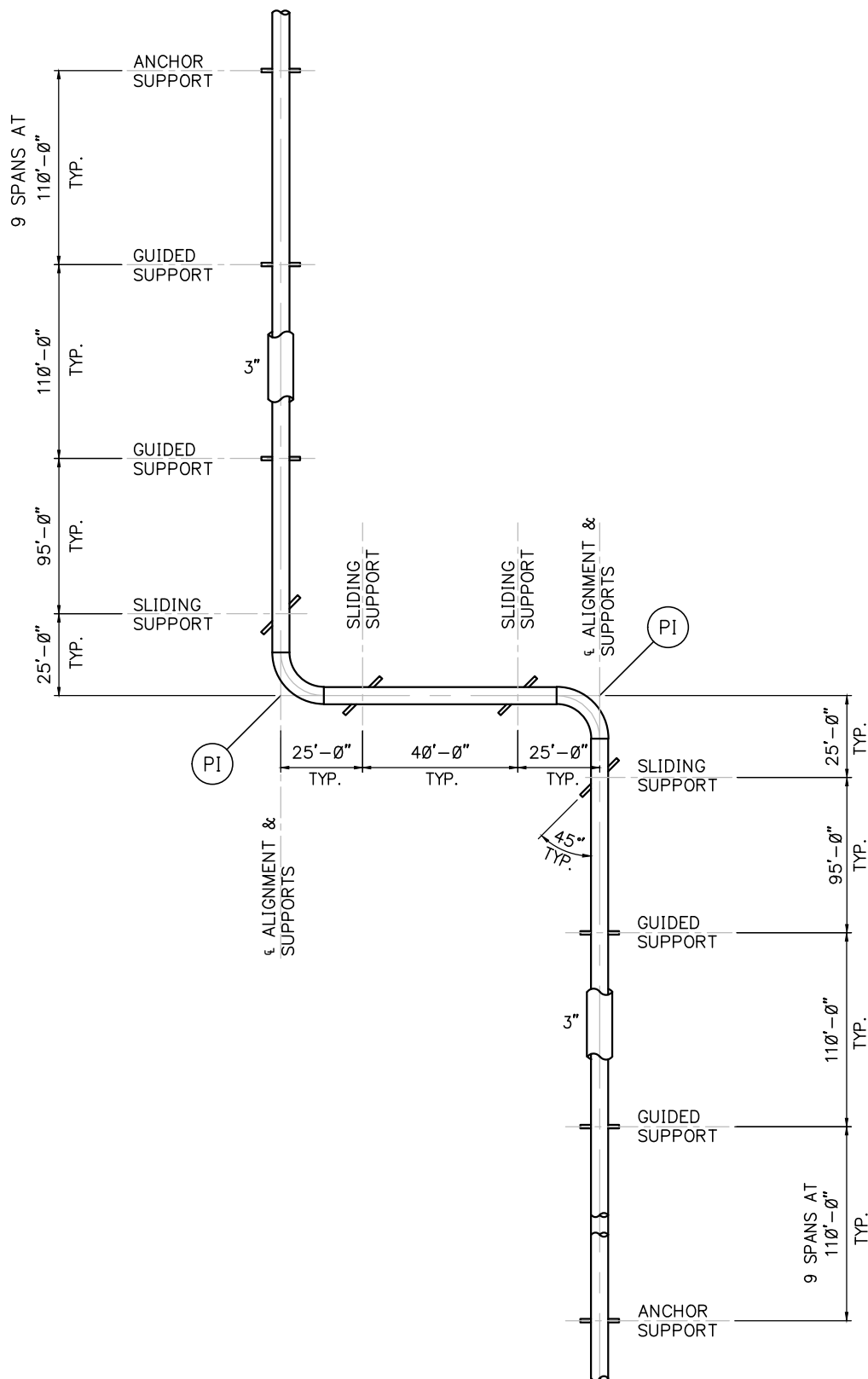
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**HELIPORT
APPROACH/DEPARTURE
MODES - CLEARING AREA**

TYPICAL FIGURE E-107

ALASKA LNG



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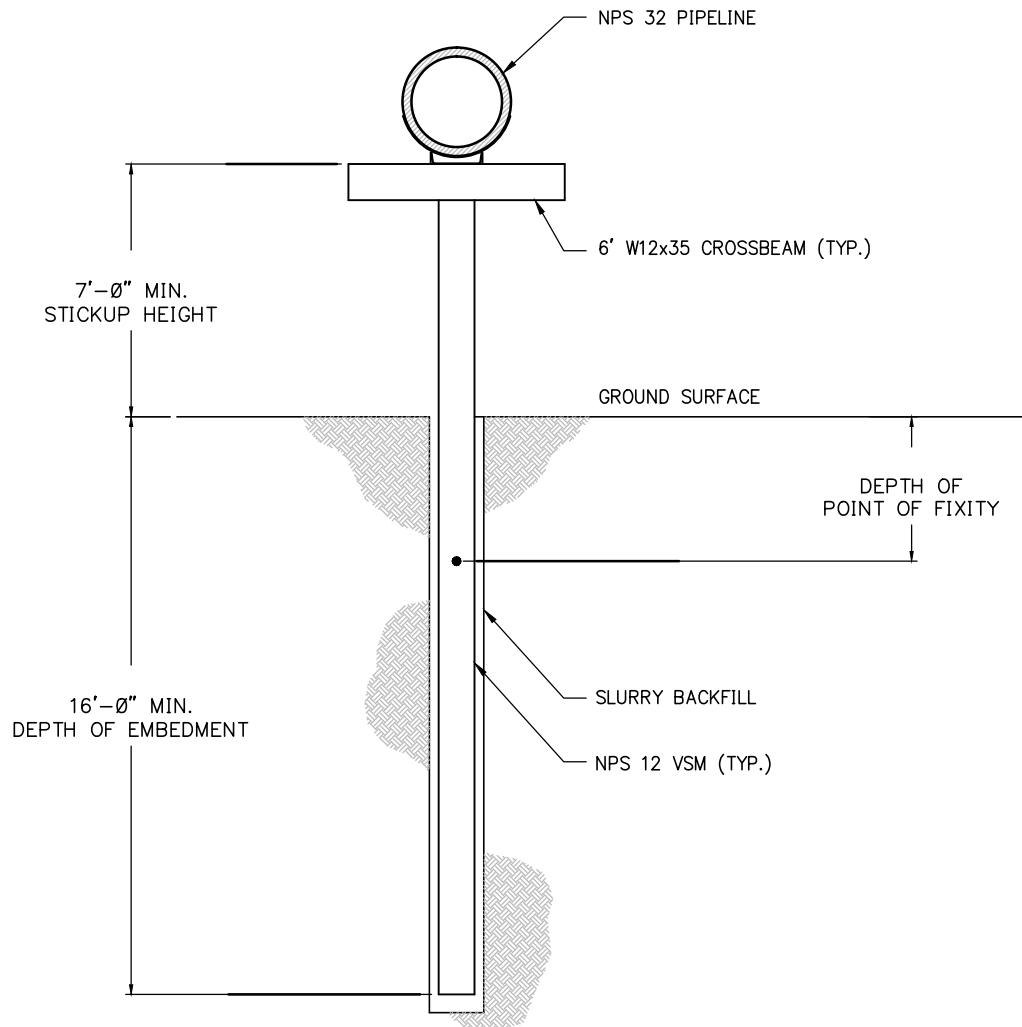
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PTTL: SUPPORT TYPICALS -
ANCHORS, OFFSETS AND
GUIDED/SLIDING SUPPORTS

TYPICAL FIGURE E-108

ALASKA LNG



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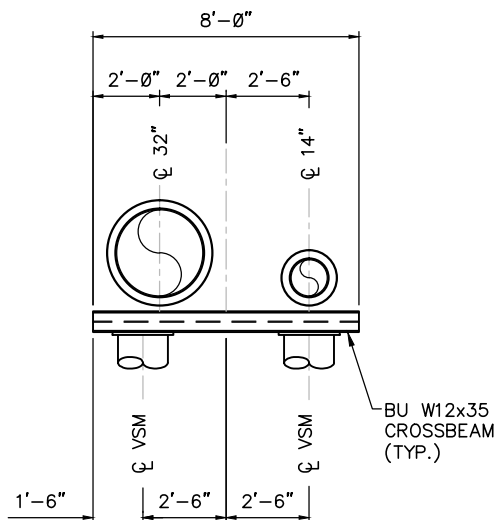
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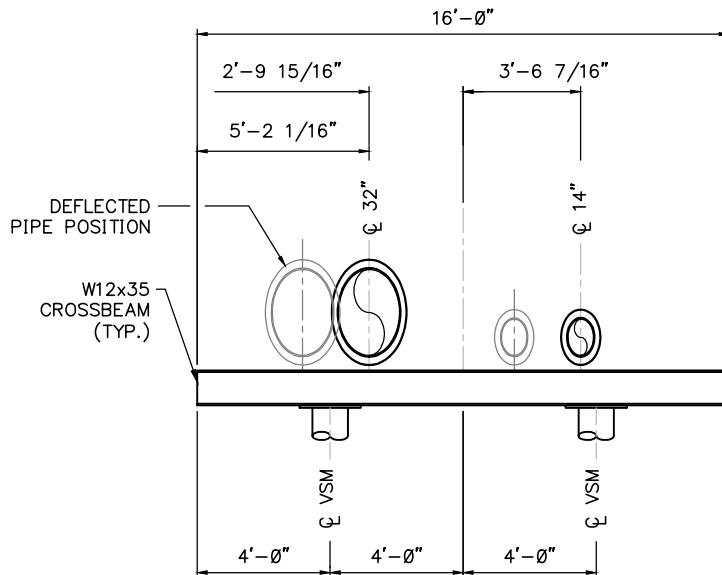
PTTL: SUPPORT TYPICALS -
SUPPORT

TYPICAL FIGURE E-109

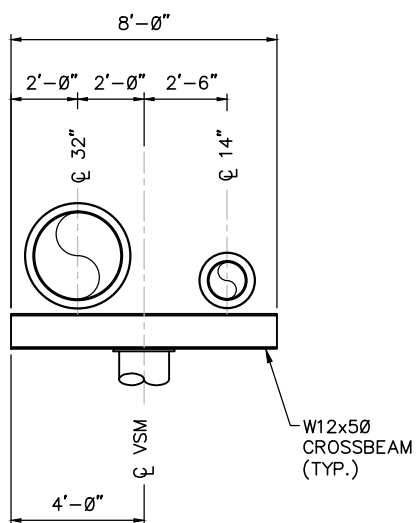
ALASKA LNG



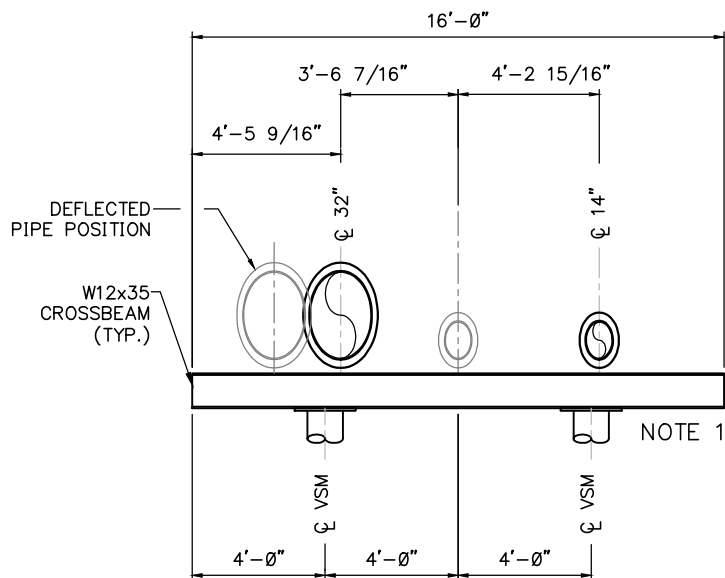
ANCHOR SUPPORT



SLIDING SUPPORT
(VIEWED AT 45° TO PIPE IN LINE)



GUIDED SUPPORT
(ADJACENT TO LOOP)

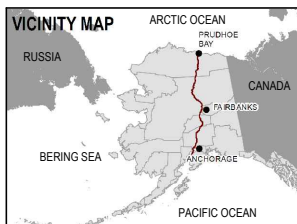


SLIDING SUPPORT
(VIEWED AT 45° TO PIPE IN LOOP)

NOTE:

1. SLIDING SUPPORTS ARE TYPICALLY INSTALLED AT 45° FROM THE ALIGNMENT. DIMENSIONS SHOWN ARE ALONG THE HSM.

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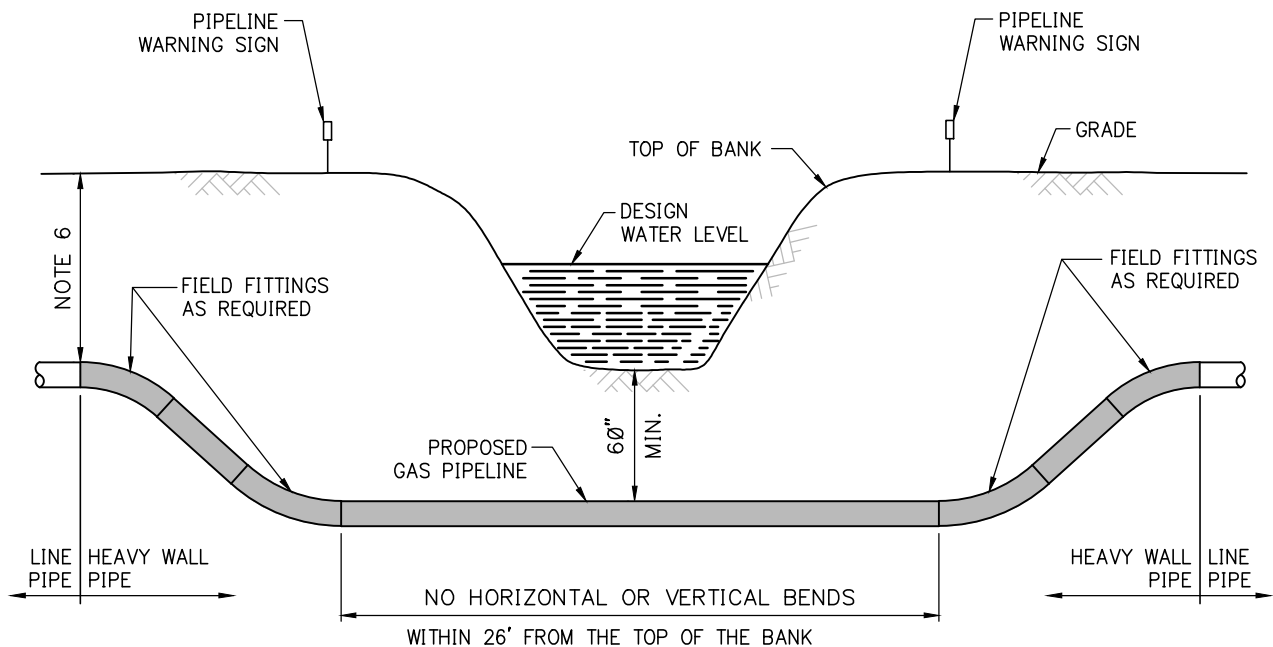
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PTTL: SUPPORT TYPICALS -
SHARED HSM/VSM FOR PTTL AND
PTU WEST GATHERING LINE

TYPICAL FIGURE E-110

ALASKA LNG



PROFILE

NOTES:

1. CROSSING SHALL BE CONSTRUCTED IN ACCORDANCE WITH AKLNG PROCEDURES AND WITH THE METHOD APPROVED FROM AUTHORITIES HAVING JURISDICTION.
2. EROSION CONTROL DESIGN SHALL BE IMPLEMENTED AS PER AKLNG PLAN.
3. APPROVED AND APPROPRIATE VEHICLE CROSSING WILL BE INSTALLED AS REQUIRED.
4. ALL MAJOR WATERBODY CROSSINGS WILL HAVE A DETAILED SITE SPECIFIC CROSSING DRAWING INCLUDING RECLAMATION PLANS. PROFILE SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY.
5. MINIMUM DEPTH OF COVER FOR WATER CROSSINGS WHEN CONSOLIDATED ROCK IS ENCOUNTERED ABOVE THE DITCH BOTTOM SHOULD BE <5'.
6. SEE FIGURE E-32 FOR MINIMUM DEPTH OF COVER.

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ALL DRAWINGS AND
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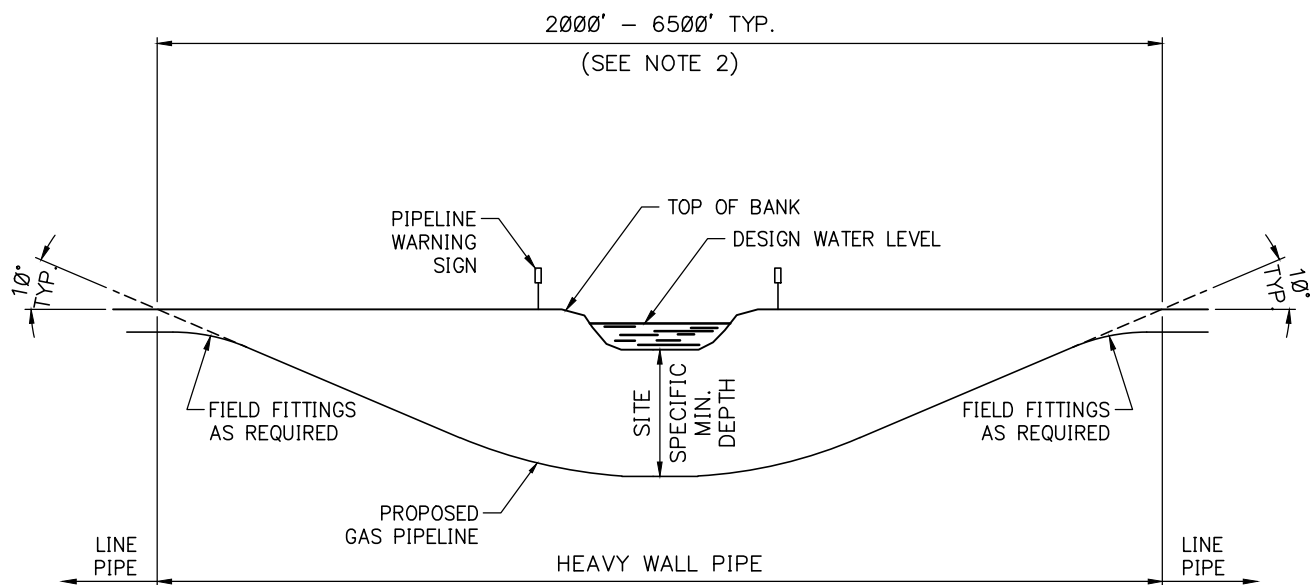
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WATERBODY CROSSINGS - OPEN CUT

TYPICAL FIGURE E-111

ALASKA LNG

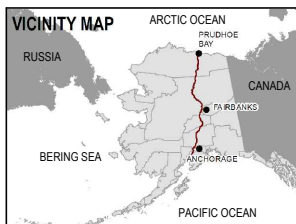


PROFILE

NOTES:

1. ALL HDD INSTALLATIONS WILL HAVE A DETAILED SITE SPECIFIC CROSSING DRAWING.
2. LENGTH OF HDD DEPENDS ON WATERBODY CROSSING WIDTH, DEPTH OF CHANNEL AND APPROACH SLOPE ANGLES.

PRELIMINARY &
SUBJECT TO CHANGE.
ALL DRAWINGS AND
DIMENSIONS TYPICAL



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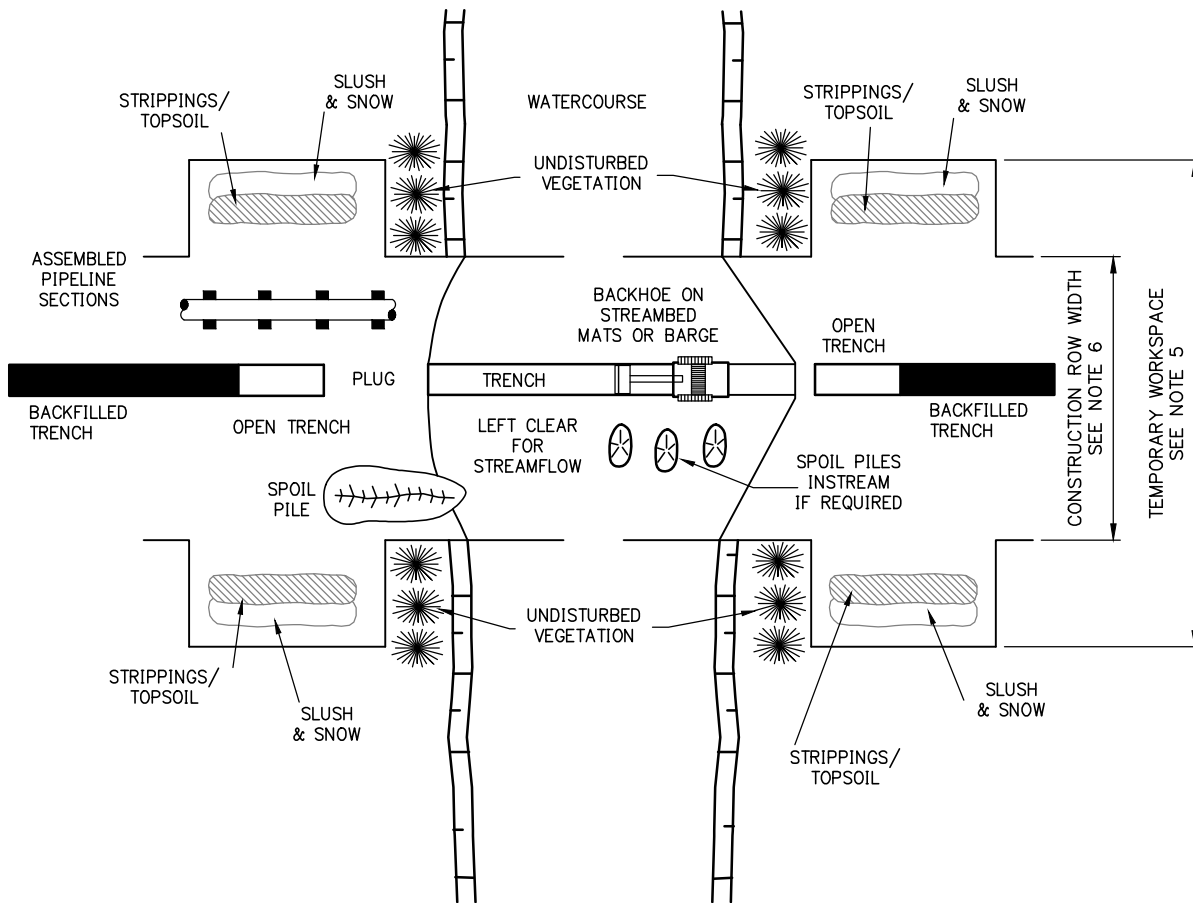
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WATERBODY CROSSINGS - MAJOR/INTERMEDIATE - HDD

TYPICAL FIGURE E-112

ALASKA LNG

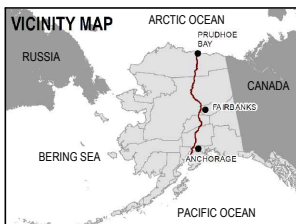


PLAN VIEW

NOTES:

1. CROSSING SHALL BE CONSTRUCTED IN ACCORDANCE WITH AKLNG PROCEDURES AND WITH THE METHOD APPROVED FROM AUTHORITIES HAVING JURISDICTION.
2. EROSION CONTROL DESIGN SHALL BE IMPLEMENTED AS PER AKLNG PLAN.
3. INSTALL APPROVED AND APPROPRIATE VEHICLE CROSSING AS REQUIRED.
4. ALL MAJOR WATERBODY CROSSINGS WILL HAVE A DETAILED SITE SPECIFIC CROSSING DRAWING INCLUDING RECLAMATION PLANS. PROFILE SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY.
5. SEE FIGURE E-43 FOR ATWS DIMENSIONS.
6. SEE FIGURES E-35 THROUGH E-41 FOR CONSTRUCTION ROW WIDTH.

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ALL DRAWINGS AND
DIMENSIONS TYPICAL



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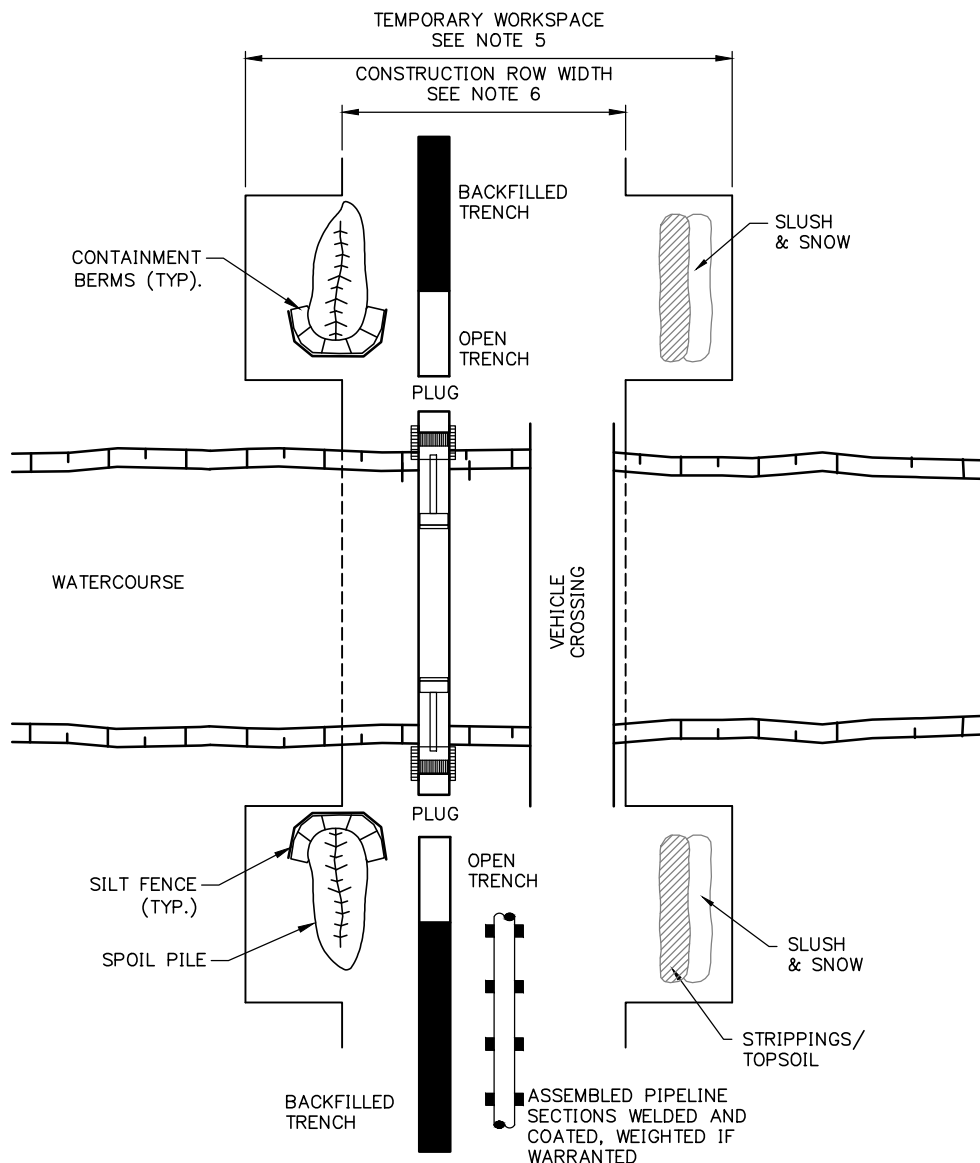
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WATERBODY CROSSINGS - MAJOR/INTERMEDIATE - OPEN CUT

TYPICAL FIGURE E-113

ALASKA LNG

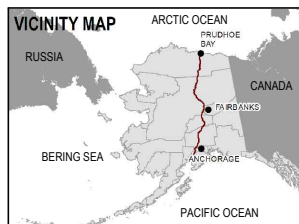


PLAN VIEW

NOTES:

1. WORK SPACE AND MATERIAL STORAGE AREAS WILL BE CLEARED FROM VEGETATION, LEAVING THE VEGETATED BUFFER BACK FROM THE BANK ON THE STORAGE SIDE OF THE RIGHT OF WAY.
2. ROOTS AND SALVAGE SPOIL MATERIAL FROM GRADED EXCAVATED AREAS WILL BE STORED SEPARATELY OUT OF THE WAY OF CROSSING ACTIVITIES.
3. SPOIL CONTAINMENT BERMS AND SEDIMENT CONTROL FEATURE WILL BE INSTALLED DOWNSLOPE OF PROPOSED SPOIL AREAS.
4. THE INSTREAM PIPE SECTIONS WILL BE CONSTRUCTED AND HYDROSTATICALLY PRETESTED PRIOR TO INSTREAM ACTIVITIES.
5. SEE FIGURE E-43 FOR ATWS DIMENSIONS.
6. SEE FIGURES E-35 THROUGH E-41 FOR CONSTRUCTION ROW WIDTH.

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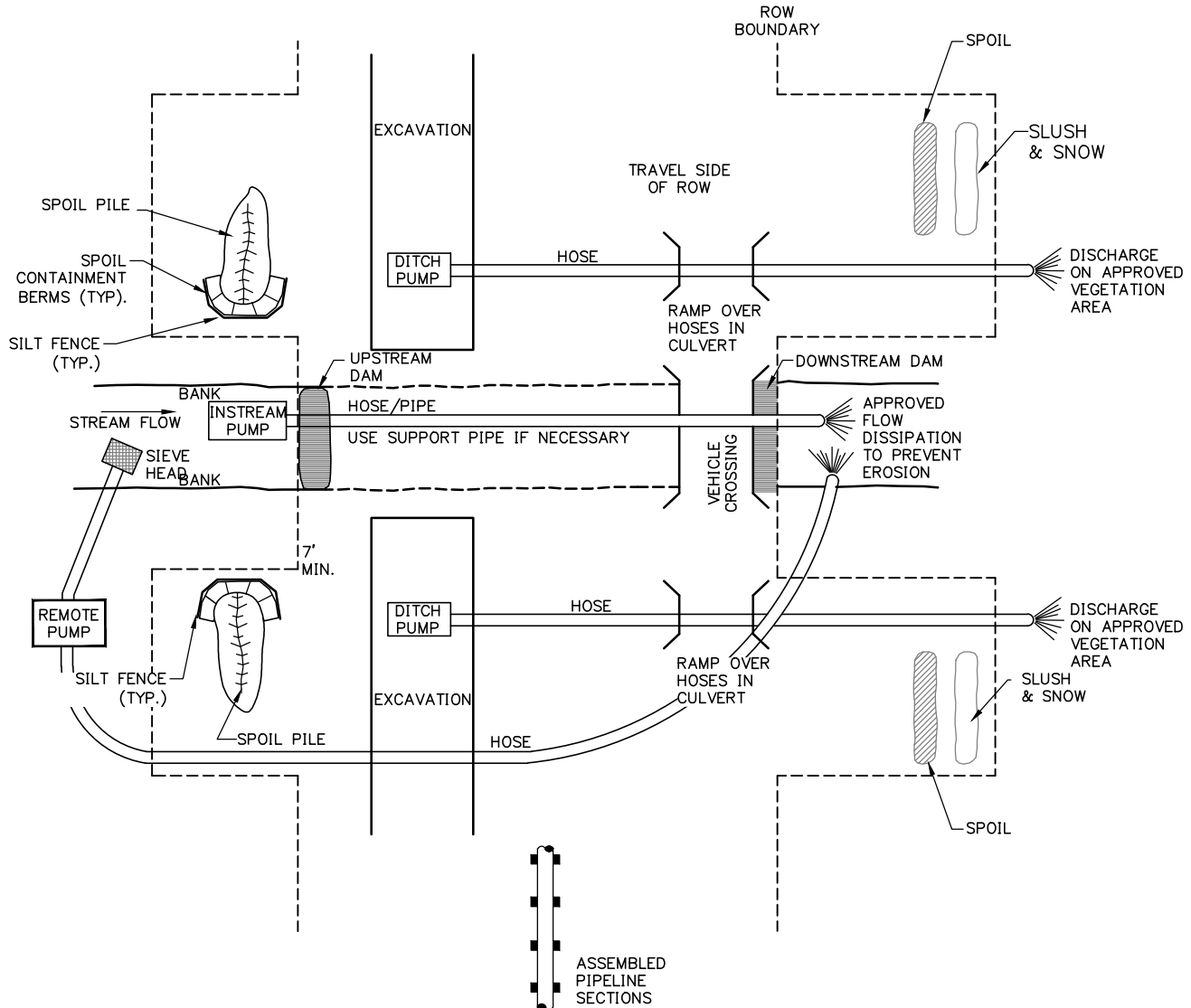
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WATERBODY CROSSINGS - MINOR - OPEN CUT

TYPICAL FIGURE E-114

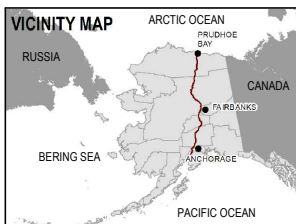
ALASKA LNG



NOTES:

1. VEHICLE CROSSING WILL BE INSTALLED ON THE WORK SIDE EDGE OF THE RIGHT TO WAY TO ALLOW FOR A WIDE EXCAVATION.
2. SPOIL SIDE DAM WILL BE CONSTRUCTED USING SPECIFIED DAMMING TECHNIQUES ON THE SPOIL EDGE OF THE RIGHT OF WAY TO ALLOW FOR A WIDE EXCAVATION.
3. THE VEHICLE CROSSING CULVERT WILL BE PLUGGED OR DOWNSTREAM DAM WILL BE CONSTRUCTED USING SPECIFIED DAMMING TECHNIQUES. WHERE THE BRIDGE IS USED, THE DAM WILL BE CONSTRUCTED AS CLOSE TO THE SPOIL SIDE OF THE BRIDGE AS POSSIBLE TO ALLOW FOR A WIDE EXCAVATION.
4. THE STREAM CHANNEL WILL BE BACKFILLED. WATER CONTAINMENT SUMPS WILL BE CONSTRUCTED IF NECESSARY.
5. THE STREAM CHANNEL BED AND BANKS WILL BE STABILIZED
6. THE VEGETATION BUFFER MINIMUM DISTANCE WILL BE 50ft. OR AS DICTATED IN PERMITS.

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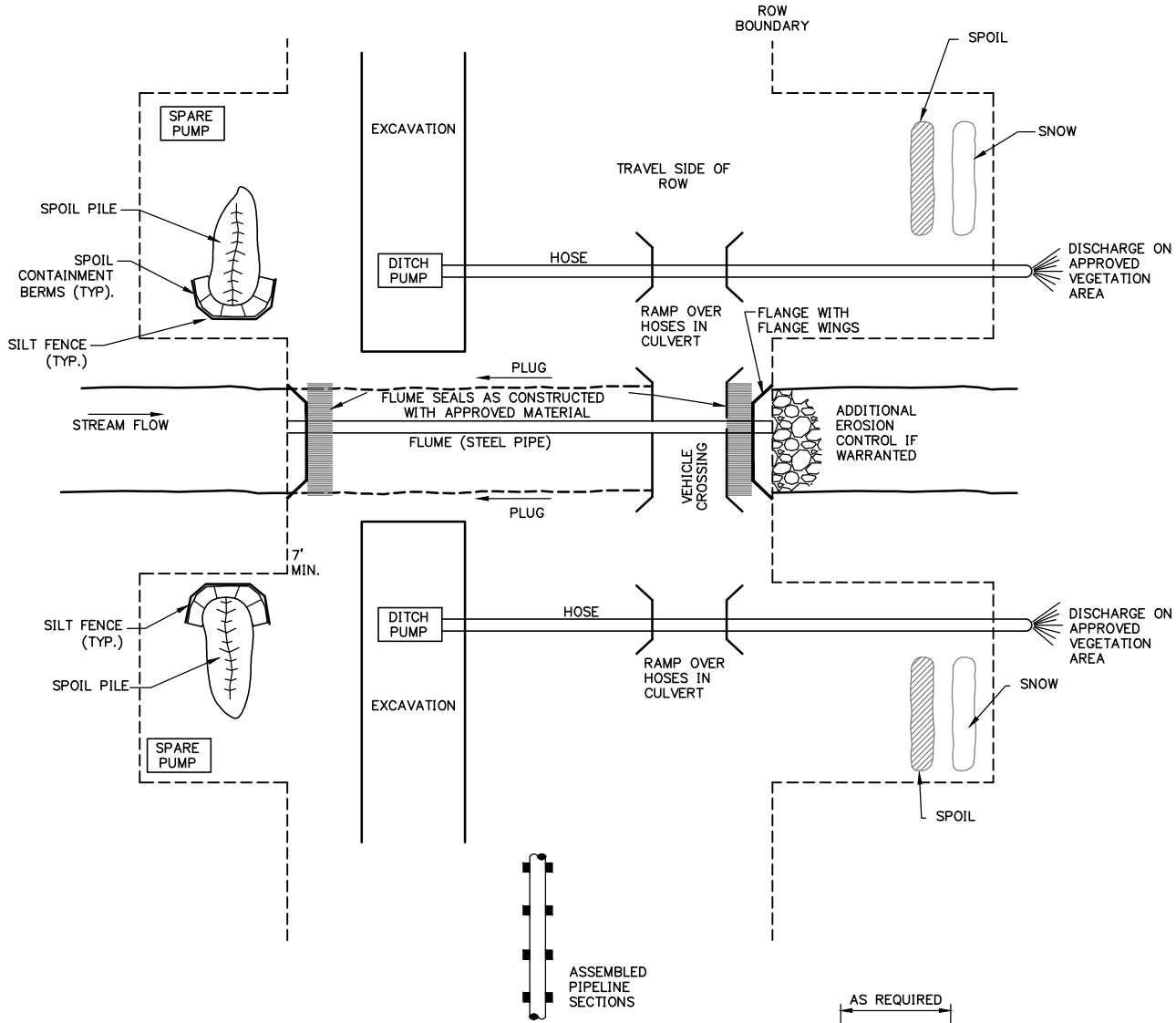
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WATERBODY CROSSINGS - ISOLATED OPEN CUT - DAM AND PUMP

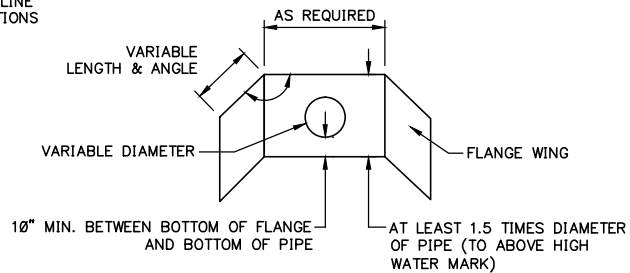
TYPICAL FIGURE E-115

ALASKA LNG



NOTES:

1. VEHICLE CROSSING WILL BE INSTALLED ON THE WORK SIDE EDGE OF THE RIGHT OF WAY TO ALLOW FOR A WIDE EXCAVATION.
2. THE FLUME WILL BE INSTALLED WITH FLANGES AS PER SPECIFICATION.
3. THE FLUME WILL BE INSTALLED IN THE STREAM CHANNEL USING SEALING TECHNIQUES AND AREA BETWEEN FLANGE WINGS WILL BE DEWATERED.
4. THE STREAM CHANNEL BED AND BANKS WILL BE STABILIZED
5. VEGETATION BUFFER MINIMUM DISTANCE WILL BE 50ft. OR AS DICTATED IN PERMITS.



DETAIL 'A'
FRONT VIEW OF FLUME FACE (UPSTREAM)

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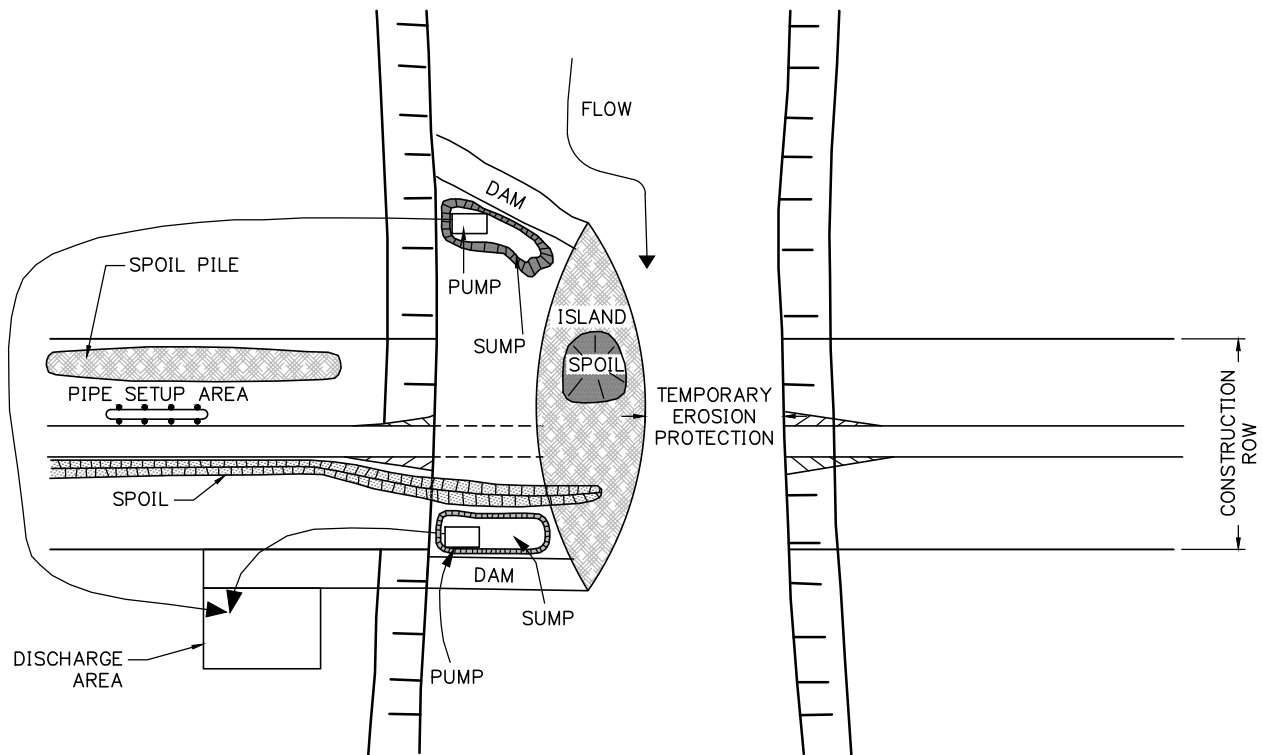
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WATERBODY CROSSINGS - ISOLATED OPEN CUT - DAM AND FLUME

TYPICAL FIGURE E-116

ALASKA LNG

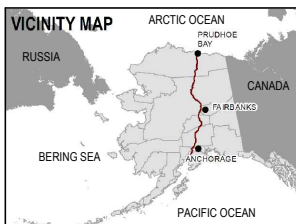


PLAN VIEW

NOTES:

1. DEFLECTION BARRIER WILL BE CONSTRUCTED IN CASE OF HIGH VELOCITY STREAM FLOW.
2. THE DAM WILL BE CONSTRUCTED FROM LOCAL MATERIALS, SANDBAGS, AQUADAMS, SHEET PILING, MEDIAN BARRIERS, GRAVE OR OTHER APPROPRIATE MATERIALS TO EXTEND OVER HALFWAY ACROSS THE WATERCOURSE.
3. IF DAM IS CONSTRUCTED OF LOOSE MATERIAL, RIPRAP WILL BE INSTALLED ON THE UPSTREAM SIDE TO PROTECT THE DAM FROM EROSION.
4. SPOIL STORAGE WILL BE ABOVE HIGH WATER MARK OR PROTECTED BY EROSION CONTROL MEASURES.
5. TEMPORARY CHANNEL DIVERSION THROUGH A CHANNEL EXCAVATED INTO A FLOOD PLAIN CAN BE CONSIDERED IF LINED OR PASSED THROUGH.
6. DISCHARGE AREA DIMENSIONS ARE SITE-SPECIFIC AND WILL BE DETERMINED DURING DETAIL DESIGN.

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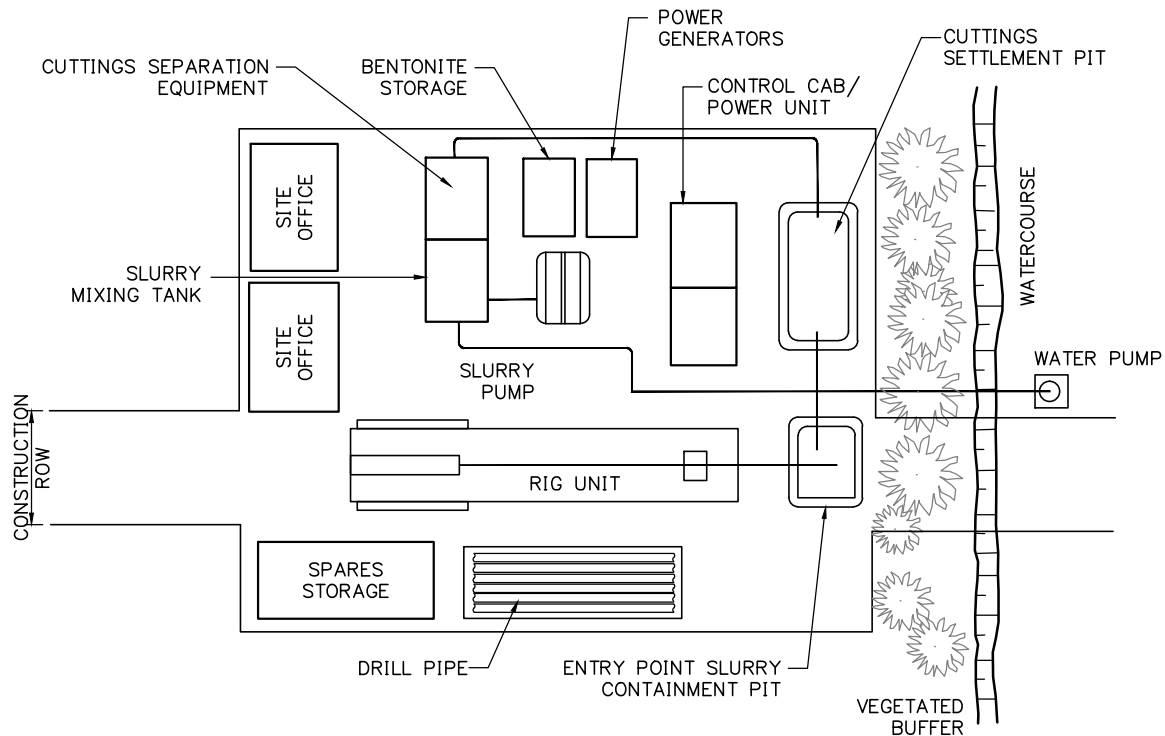
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WATERBODY CROSSINGS - ISOLATED OPEN CUT - DAM AND DIVERT

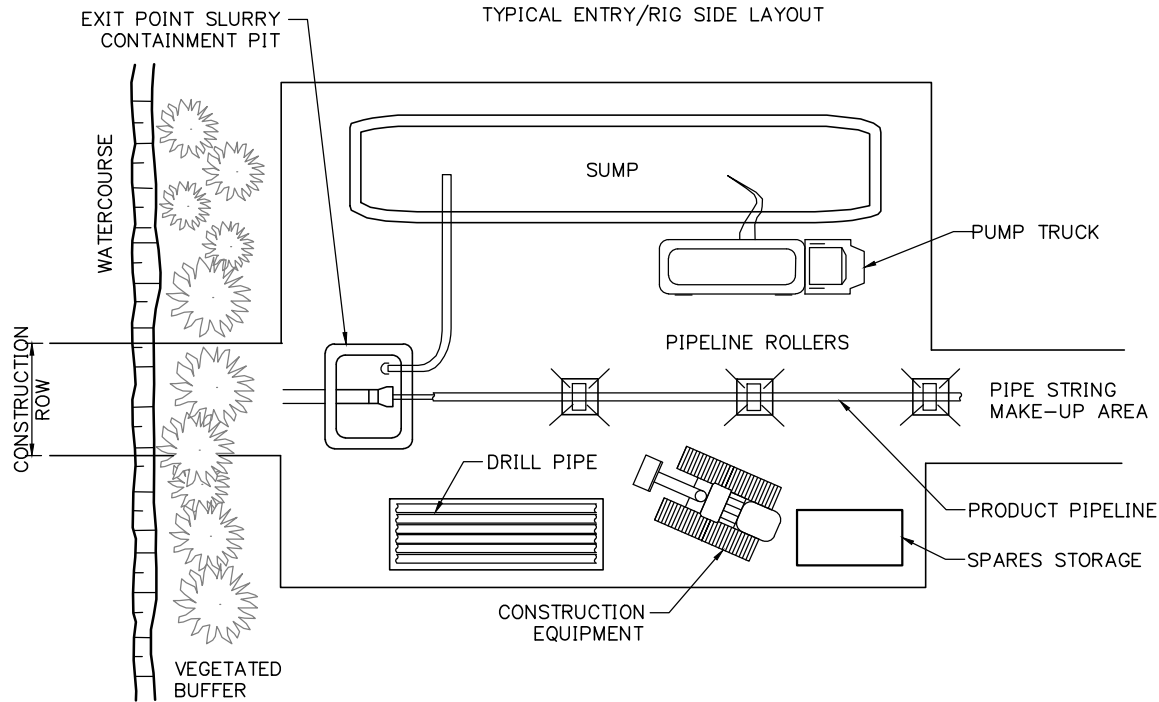
TYPICAL

FIGURE E-117

ALASKA LNG



PLAN VIEW
TYPICAL ENTRY/RIG SIDE LAYOUT

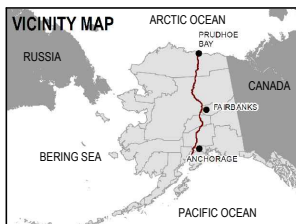


PLAN VIEW
TYPICAL EXIT/PIPE SIDE LAYOUT

NOTE:

1. SEE DRAWING WB-02 FOR ADDITIONAL DESIGN DETAILS.

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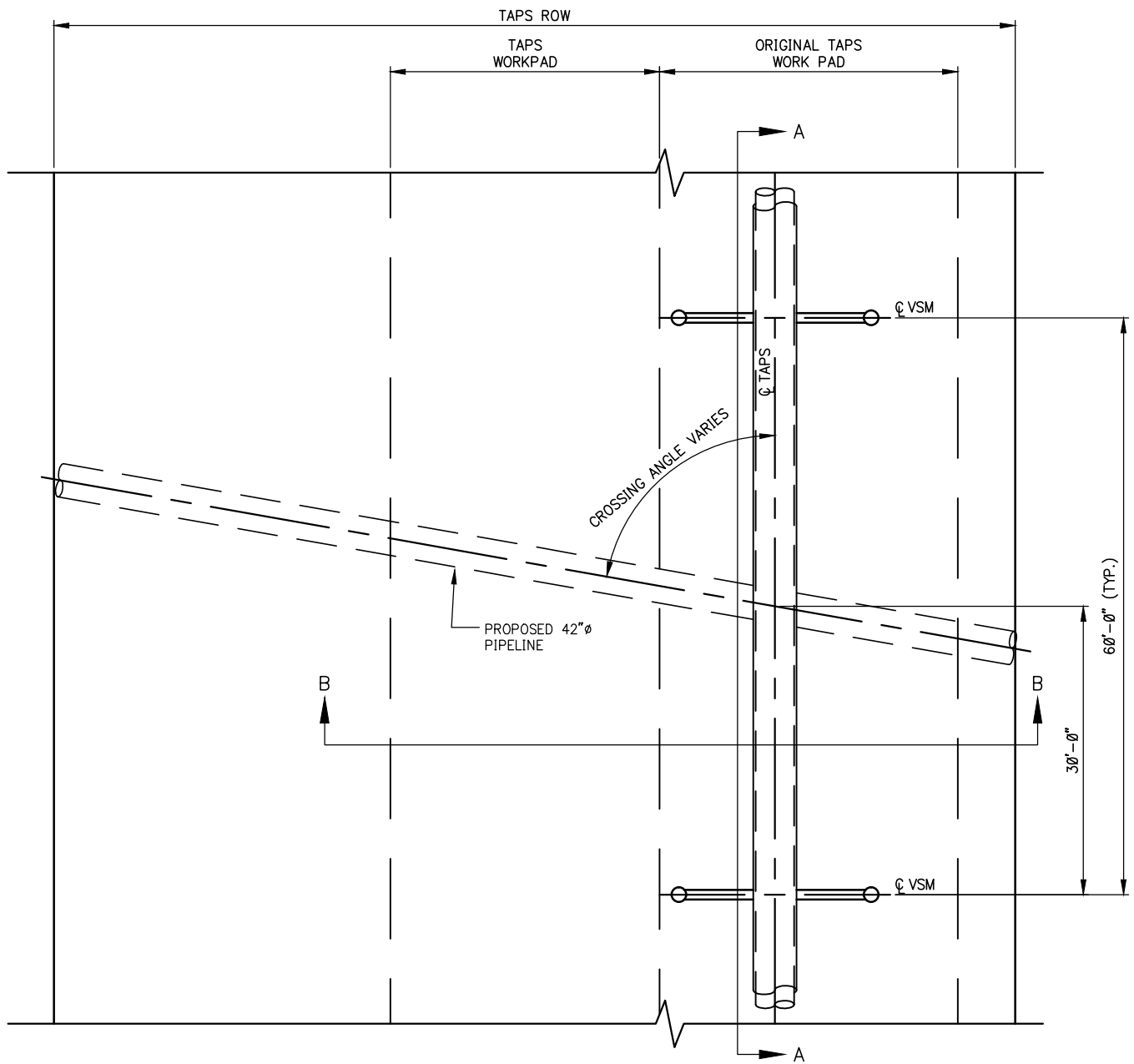
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**WATERBODY CROSSINGS -
HORIZONTAL DIRECTIONAL
DRILL**

TYPICAL FIGURE E-118

ALASKA LNG



PLAN

NOTES:

1. SEE FIGURE E-119A FOR ELEVATIONS.

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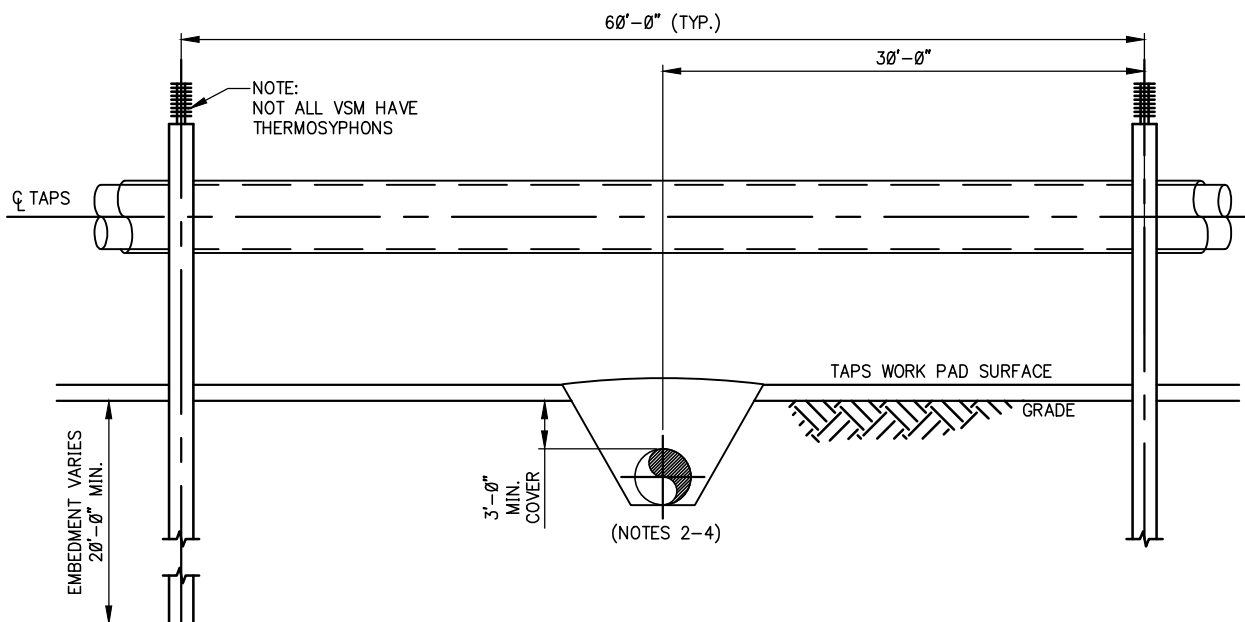
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**TAPS ABOVE GROUND
CROSSING - PLAN**

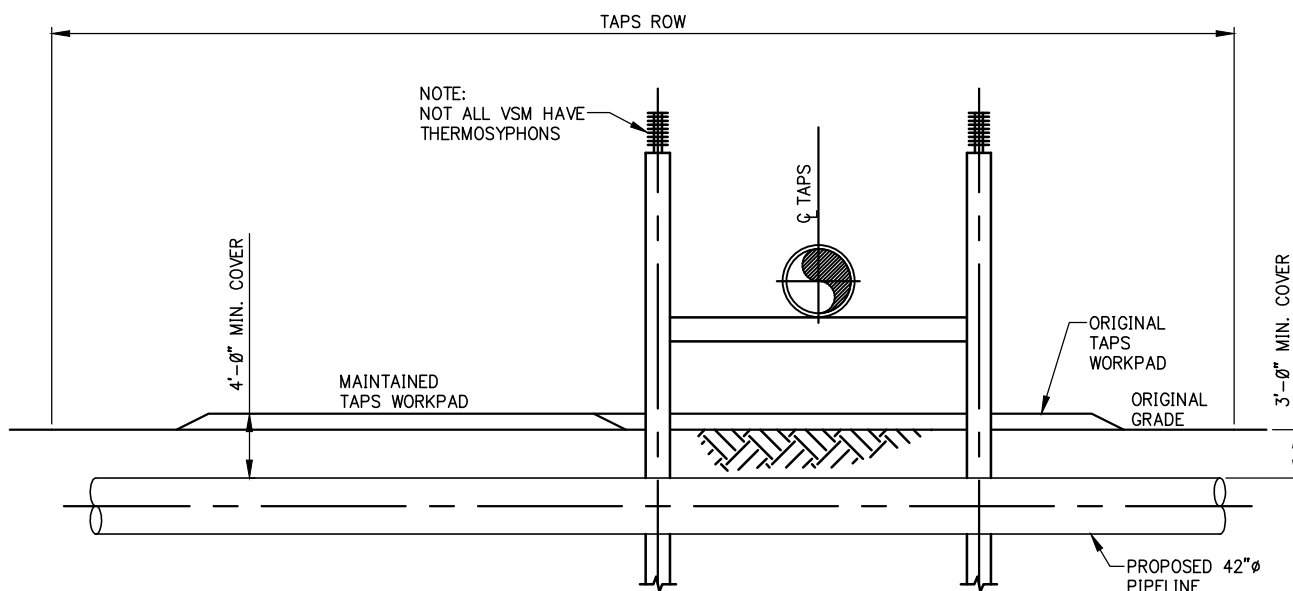
TYPICAL

FIGURE E-119

ALASKA LNG



ELEVATION A



ELEVATION B

NOTES:

1. MINIMUM DEPTH OF COVER UNDER TAPS CENTERLINE AND ADJACENT NATURAL GRADE IS 3 FT., UNDER TAPS ACCESS ROAD IS 4 FT. STRAIGHT PIPE WILL BE MAINTAINED WITHIN TAPS ROW WHERE POSSIBLE.
2. BACKFILL WITH SELECTED MATERIAL ON TAPS ROW.
3. REPLACE INSULATION BOARD IF PRESENT AT GROUND LEVEL.
4. REPLACE TAPS WORKPAD GRANULAR MATERIAL.

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**TAPS ABOVE GROUND
CROSSING - ELEVATION**

TYPICAL

FIGURE E-119A

ALASKA LNG

TAPS BELOW GROUND CROSSING AT ATIGUN
PASS - PLAN

TYPICAL

FIGURE E-120

ALASKA LNG

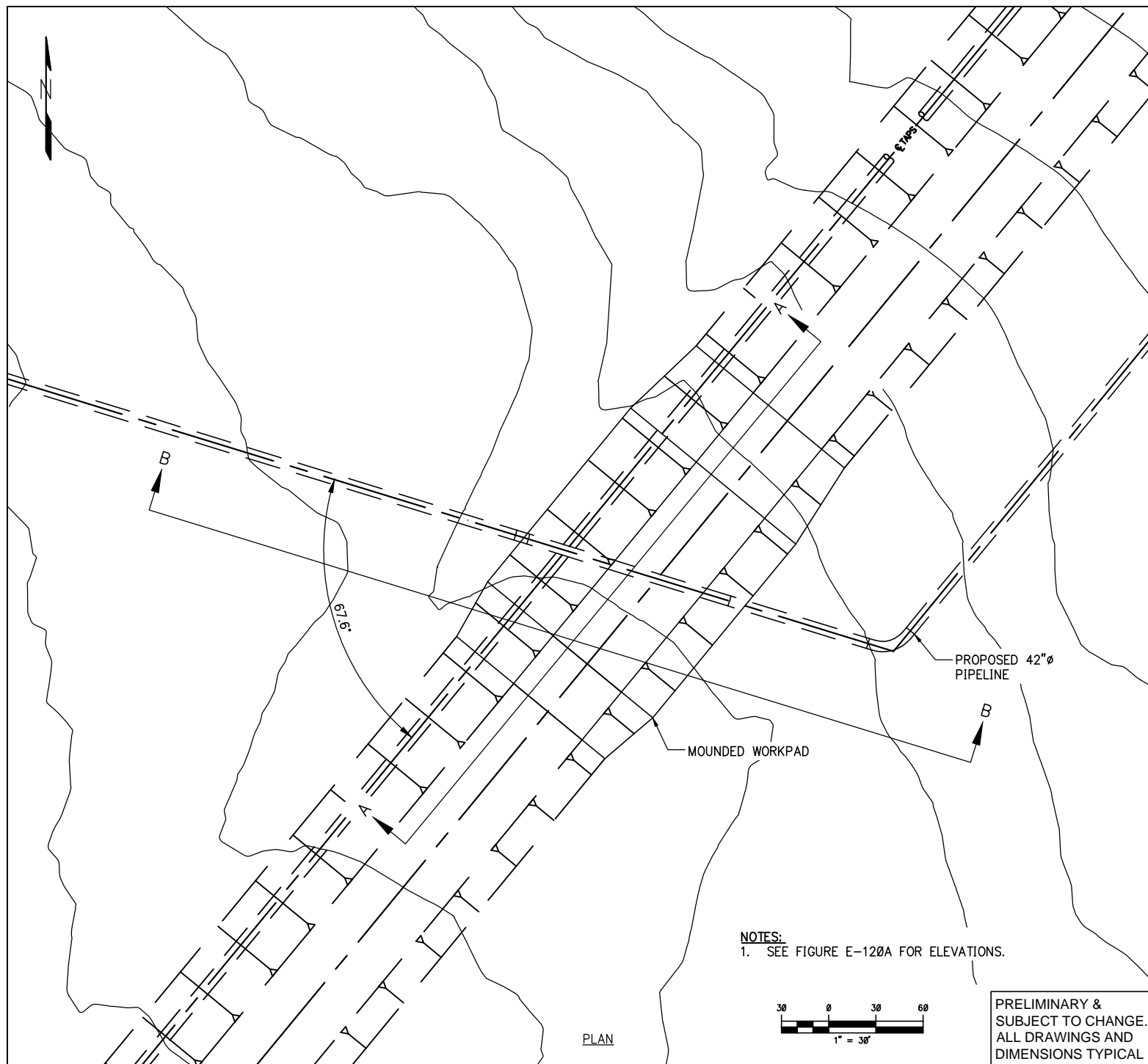
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NOTES:

1. SEE FIGURE E-120A FOR ELEVATIONS.



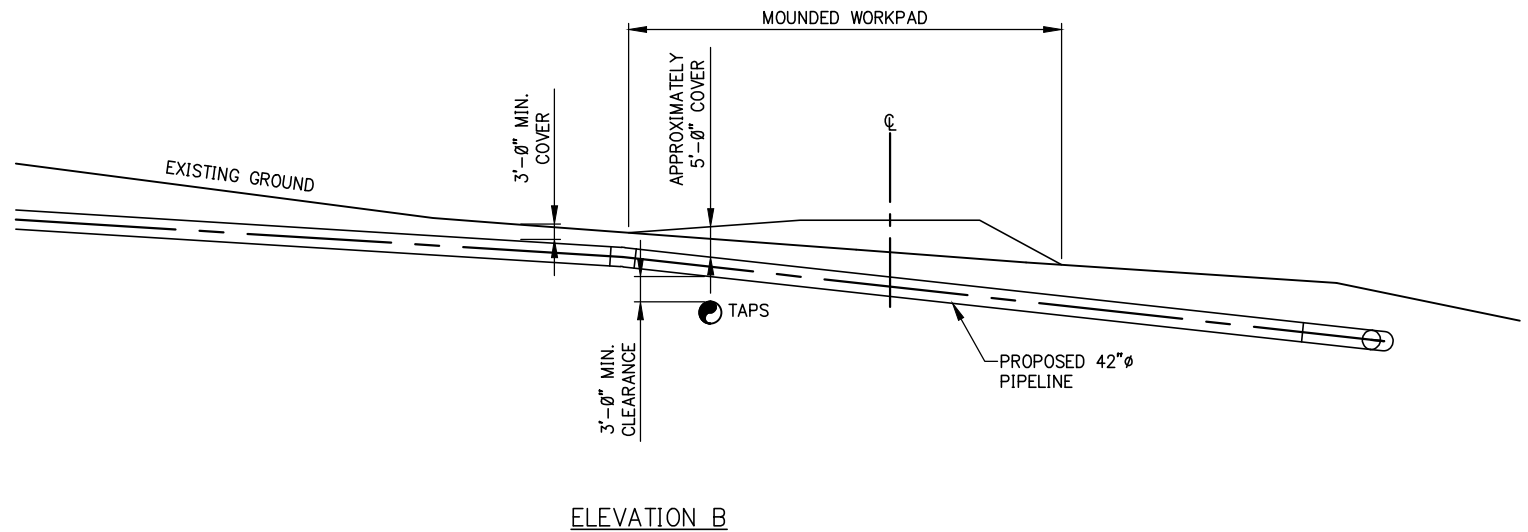
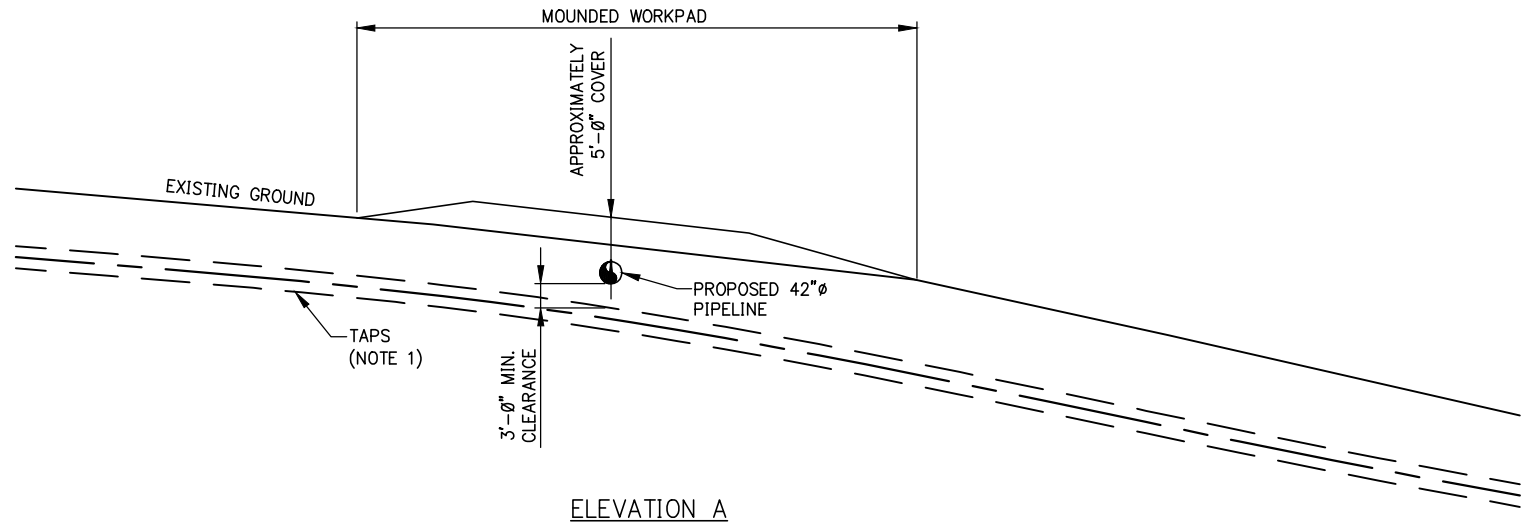
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TAPS BELOW GROUND CROSSING AT ATIGUN
PASS - ELEVATION

TYPICAL

FIGURE E-120A

ALASKA LNG



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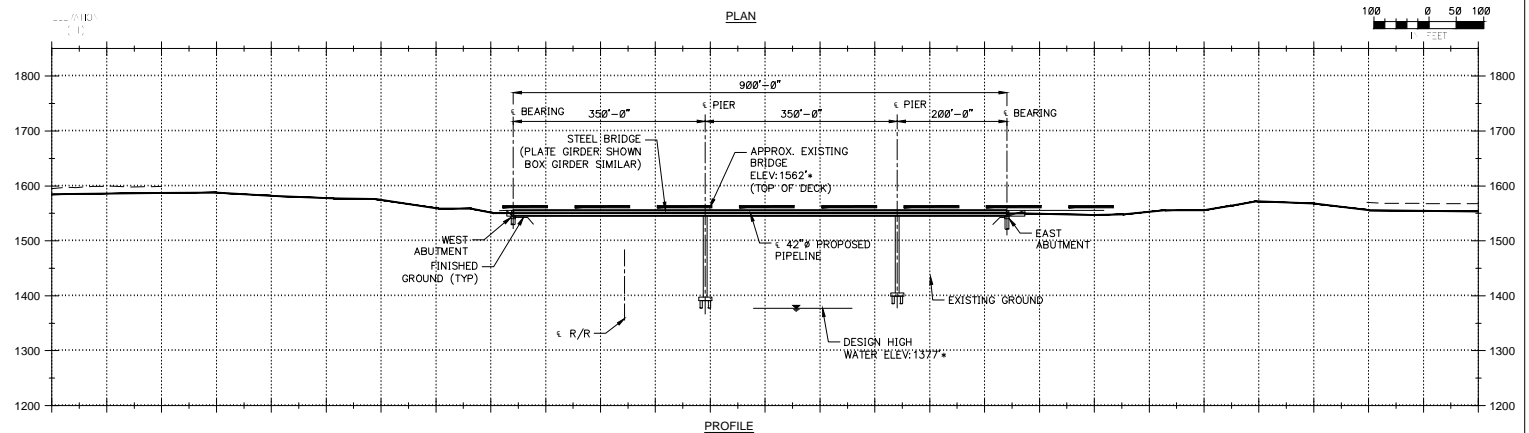
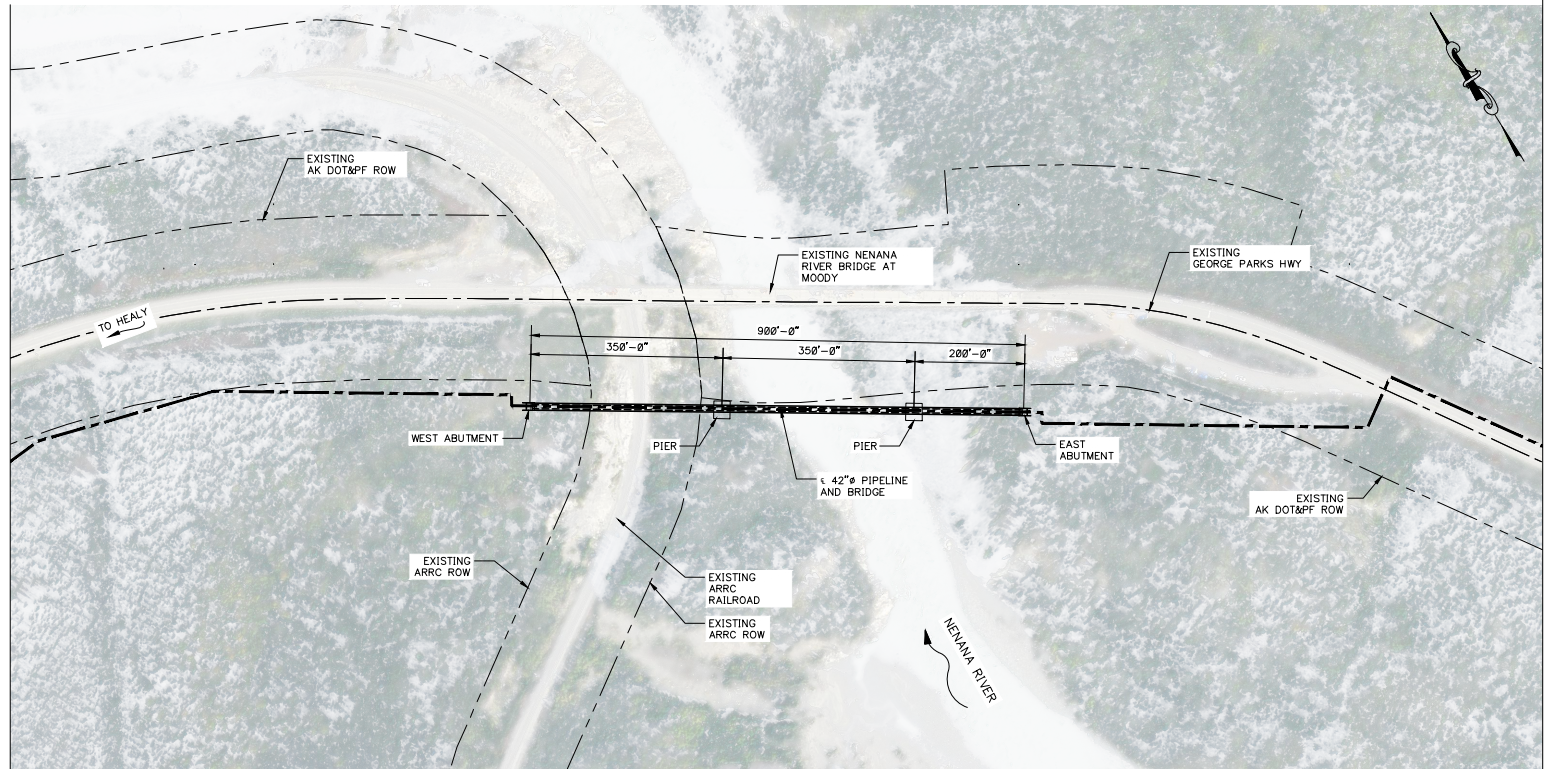
1. TAPS UNDERGROUND DATA BASED ON ILI DATA RECEIVED FROM APSC.

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NENANA RIVER CROSSING AT
MOODY, ALTERNATIVE 6 UPSTREAM 3
- SPAN STEEL BRIDGE

TYPICAL FIGURE E-121

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VICINITY MAP



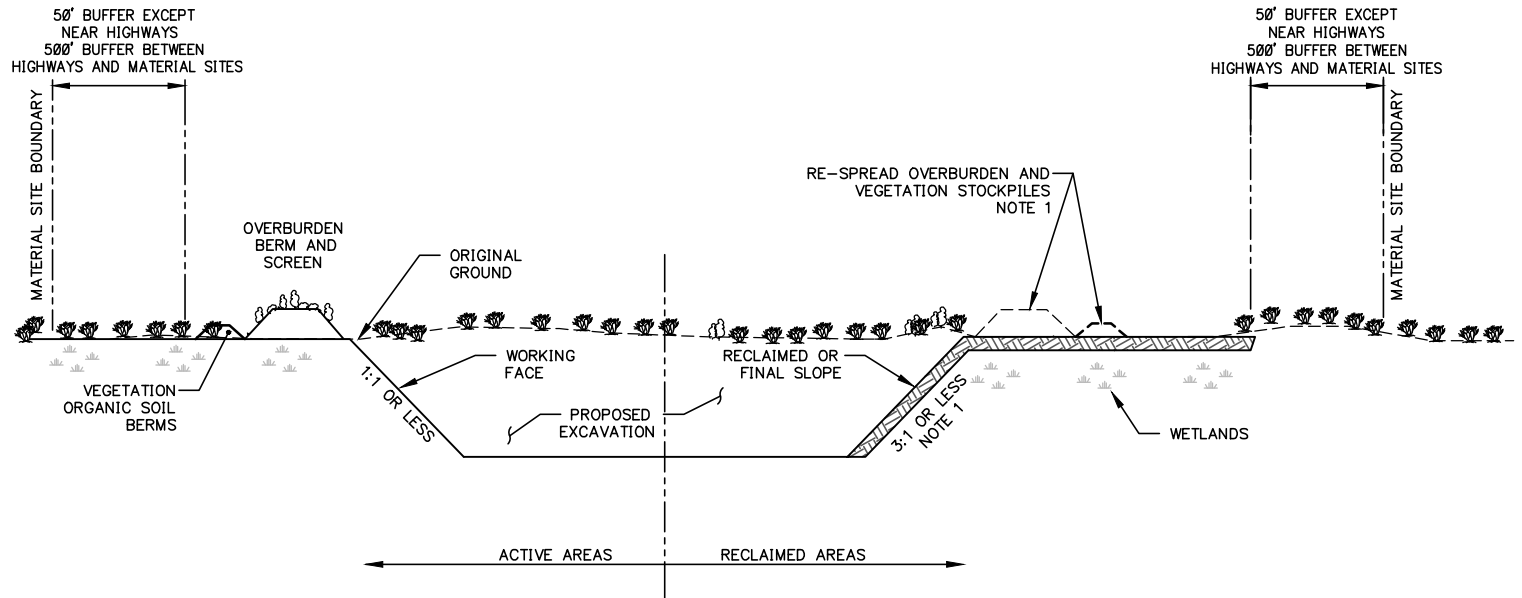
* ELEVATIONS BASED ON INFORMATION SHOWN IN EXISTING NENANA RIVER BRIDGE AT MOODY AS-BUILTS DATED 1972.

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CROSS SECTION - MATERIAL SITE ABOVE WATER TABLE

TYPICAL FIGURE E-122

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CROSS SECTION - MATERIAL SITE ABOVE WATER TABLE
NOT TO SCALE

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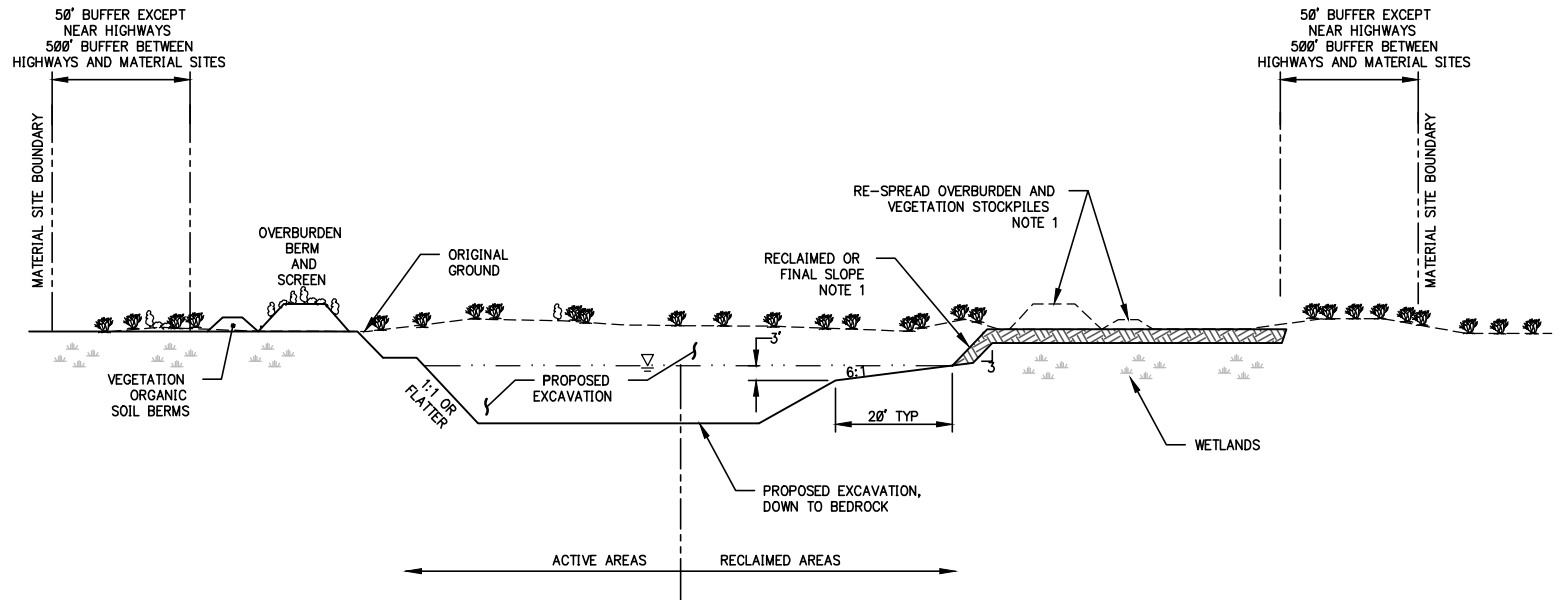
1. RE-SPREAD A THIN LAYER OF OVERBURDEN AND ORGANIC LAYER/VEGETATION TO PROMOTE REVEGETATION.

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ALL DRAWINGS AND
DIMENSIONS TYPICAL

CROSS SECTION - MATERIAL
SITE BELOW WATER TABLE

TYPICAL FIGURE E-123

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CROSS SECTION - MATERIAL SITE BELOW WATER TABLE
NOT TO SCALE

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NOTE:

1. RE-SPREAD A THIN LAYER OF OVERBURDEN AND ORGANIC LAYER/VEGETATION TO PROMOTE REVEGETATION.

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