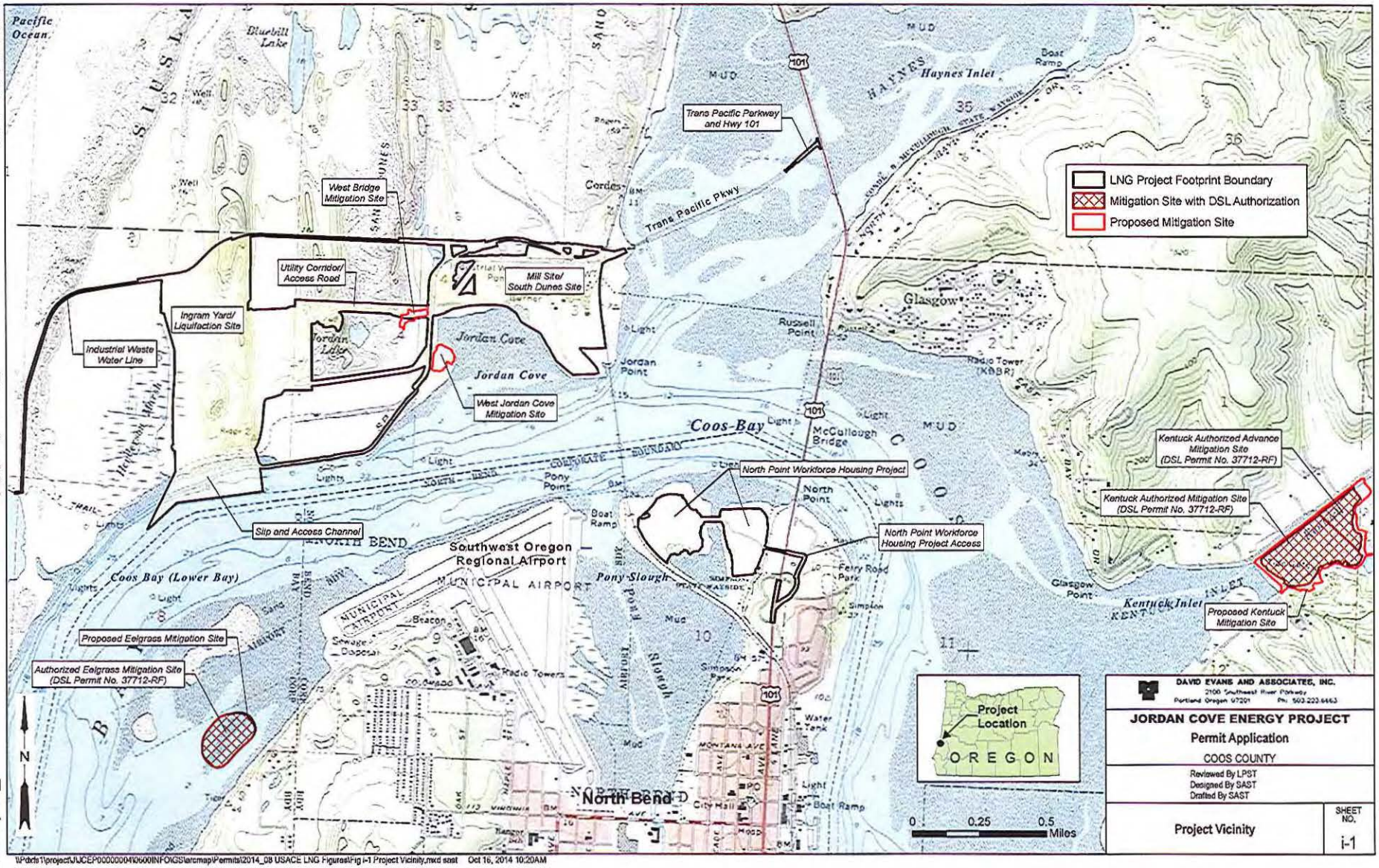

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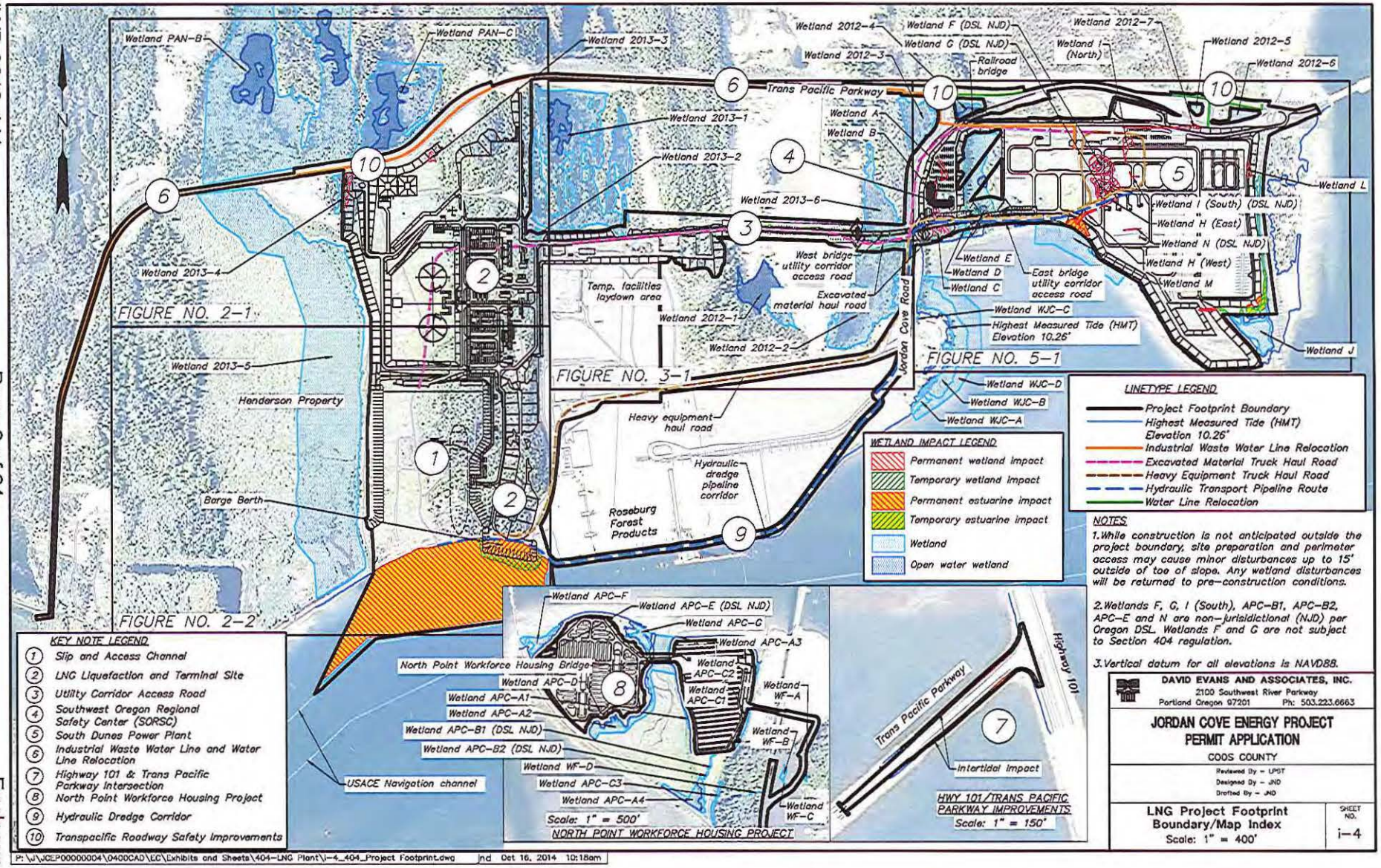
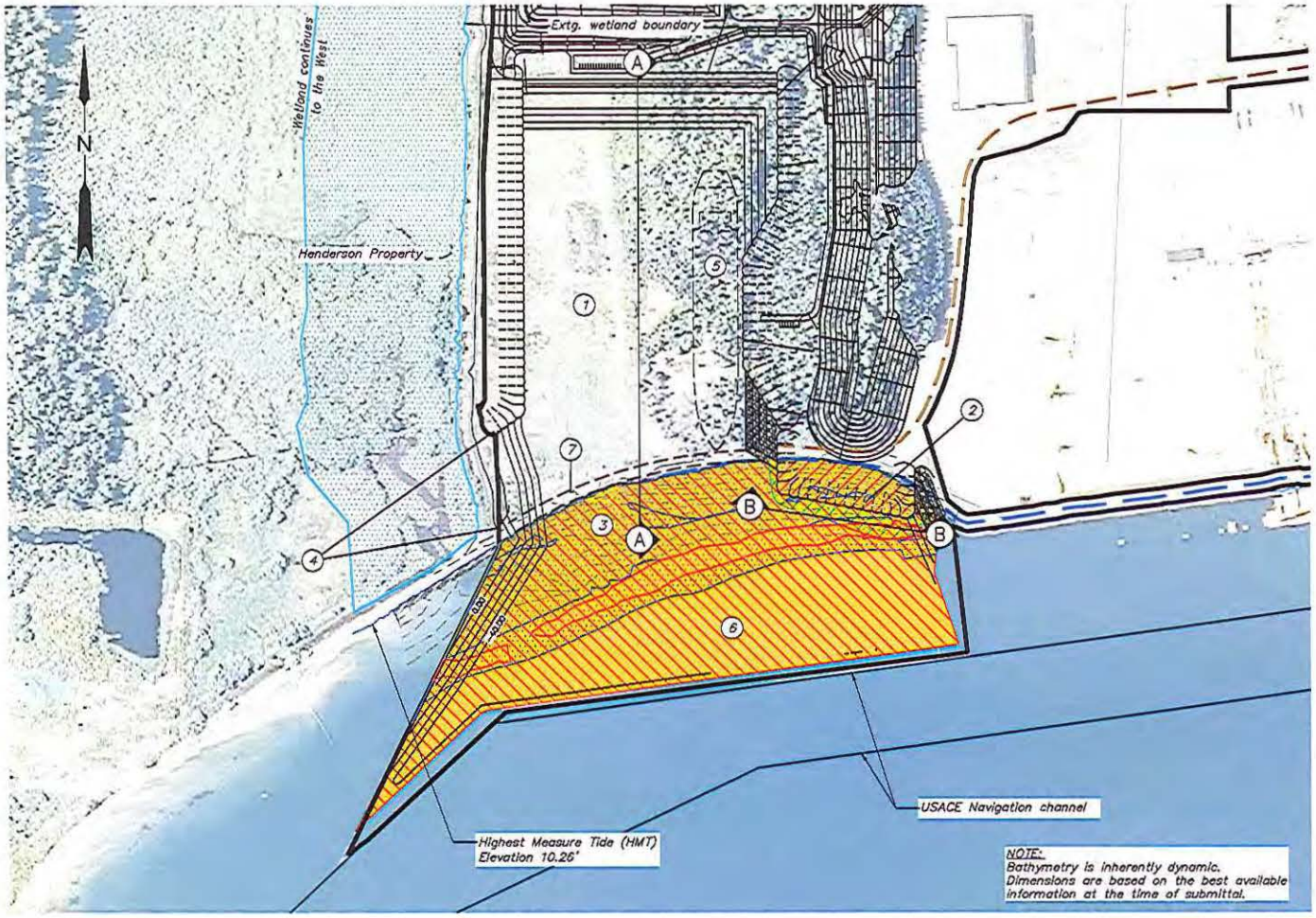

Wetland PAN-B
Wetland PAN-C
Wetland 2013-3
Wetland 2012-4
Wetland F (DSL NJD)
Wetland G (DSL NJD)
Wetland 2012-3
Railroad bridge
Wetland 2012-7
Wetland I (North)
Wetland 2012-5
Wetland 2012-6
Trans Pacific Parkway
Wetland 2013-1
Wetland A
Wetland B
Wetland 2013-2
Wetland 2013-6
Wetland L
Wetland I (South) (DSL NJD)
Wetland H (East)
Wetland N (DSL NJD)
Wetland H (West)
Wetland M
Wetland E
Wetland D
Wetland C
East bridge utility corridor access road
West bridge utility corridor access road
Excavated material haul road
Temp. facilities laydown area
Wetland 2012-1
Wetland 2012-2
Wetland 2013-4
FIGURE NO. 2-1
Wetland 2013-5
Henderson Property
FIGURE NO. 3-1
Jordan Cove Road
Wetland WJC-C
Highest Measured Tide (HMT) Elevation 10.26'
FIGURE NO. 5-1
Wetland J
Wetland WJC-D
Wetland WJC-B
Wetland WJC-A
Heavy equipment haul road
Hydraulic dredge pipeline corridor
Roseburg Forest Products
Barge Berth
FIGURE NO. 2-2
Wetland APC-F
Wetland APC-E (DSL NJD)
Wetland APC-G
Wetland APC-A3
North Point Workforce Housing Bridge
Wetland APC-D
Wetland APC-C2
Wetland APC-C1
Wetland WF-A
Wetland APC-A1
Wetland APC-A2
Wetland APC-B1 (DSL NJD)
Wetland WF-B
Wetland APC-B2 (DSL NJD)
Wetland WF-D
Wetland APC-C3
Wetland APC-A4
Wetland WF-C
Scale: 1" = 500'
NORTH POINT WORKFORCE HOUSING PROJECT
USACE Navigation channel
Trans Pacific Parkway
Highway 101
Intertidal impact
HWY 101/TRANS PACIFIC PARKWAY IMPROVEMENTS
Scale: 1" = 150'
N
LINETYPE LEGEND
Project Footprint Boundary
Highest Measured Tide (HMT) Elevation 10.26'
Industrial Waste Water Line Relocation
Excavated Material Truck Haul Road
Heavy Equipment Truck Haul Road
Hydraulic Transport Pipeline Route
Water Line Relocation
WETLAND IMPACT LEGEND
Permanent wetland impact
Temporary wetland impact
Permanent estuarine impact
Temporary estuarine impact
Wetland
Open water wetland
KEY NOTE LEGEND
1 Slip and Access Channel
2 LNG Liquefaction and Terminal Site
3 Utility Corridor Access Road
4 Southwest Oregon Regional Safety Center (SORSC)
5 South Dunes Power Plant
6 Industrial Waste Water Line and Water Line Relocation
7 Highway 101 & Trans Pacific Parkway Intersection
8 North Point Workforce Housing Project
9 Hydraulic Dredge Corridor
10 Transpacific Roadway Safety Improvements
NOTES
1. While construction is not anticipated outside the project boundary, site preparation and perimeter access may cause minor disturbances up to 15' outside of toe of slope. Any wetland disturbances will be returned to pre-construction conditions.
2. Wetlands F, G, I (South), APC-B1, APC-B2, APC-E and N are non-jurisdictional (NJD) per Oregon DSL. Wetlands F and G are not subject to Section 404 regulation.
3. Vertical datum for all elevations is NAVD88.
DAVID EVANS AND ASSOCIATES, INC.
2100 Southwest River Parkway
Portland Oregon 97201 Ph: 503.223.6663
JORDAN COVE ENERGY PROJECT
PERMIT APPLICATION
COOS COUNTY
Reviewed By - LPST
Designed By - JND
Drafted By - JND
LNG Project Footprint Boundary/Map Index
Scale: 1" = 400'
SHEET NO.
i-4
P:\J\JCEP00000004\0400CAD\EC\Exhibits and Sheets\404-LNG Plant\i-4_404_Project Footprint.dwg jnd Oct 16, 2014 10:18am



1 / 1-1 SLIP AND ACCESS CHANNEL PROJECT FOOTPRINT
SCALE: 1"=400'

0 200 400 800

2 / 1-1 KEY MAP
SCALE: 1"=5000'

LEGEND

1. Slip
2. Barge berth
3. Access channel
4. Sheet pile wall
5. LNG vessel
6. Deep sub-tidal excavation (below -15ft)
7. Temporary insitu berm (approx. 40ft wide)

- Project Footprint Boundary
- Proposed contour
- Heavy Equipment Truck Haul Road
- Hydraulic Transport Pipeline Route
- Inter-tidal area
- Shallow sub-tidal area
- Salt marsh habitat area
- Eel-grass habitat area
- Wetland

RESOURCE IMPACT LEGEND

- Permanent estuarine impact
- Temporary estuarine impact

NOTE: Vertical datum for all elevations is NAVD88.

DAVID EVANS AND ASSOCIATES, INC.
2100 Southwest River Parkway
Portland Oregon 97201 Ph: 503.223.6663

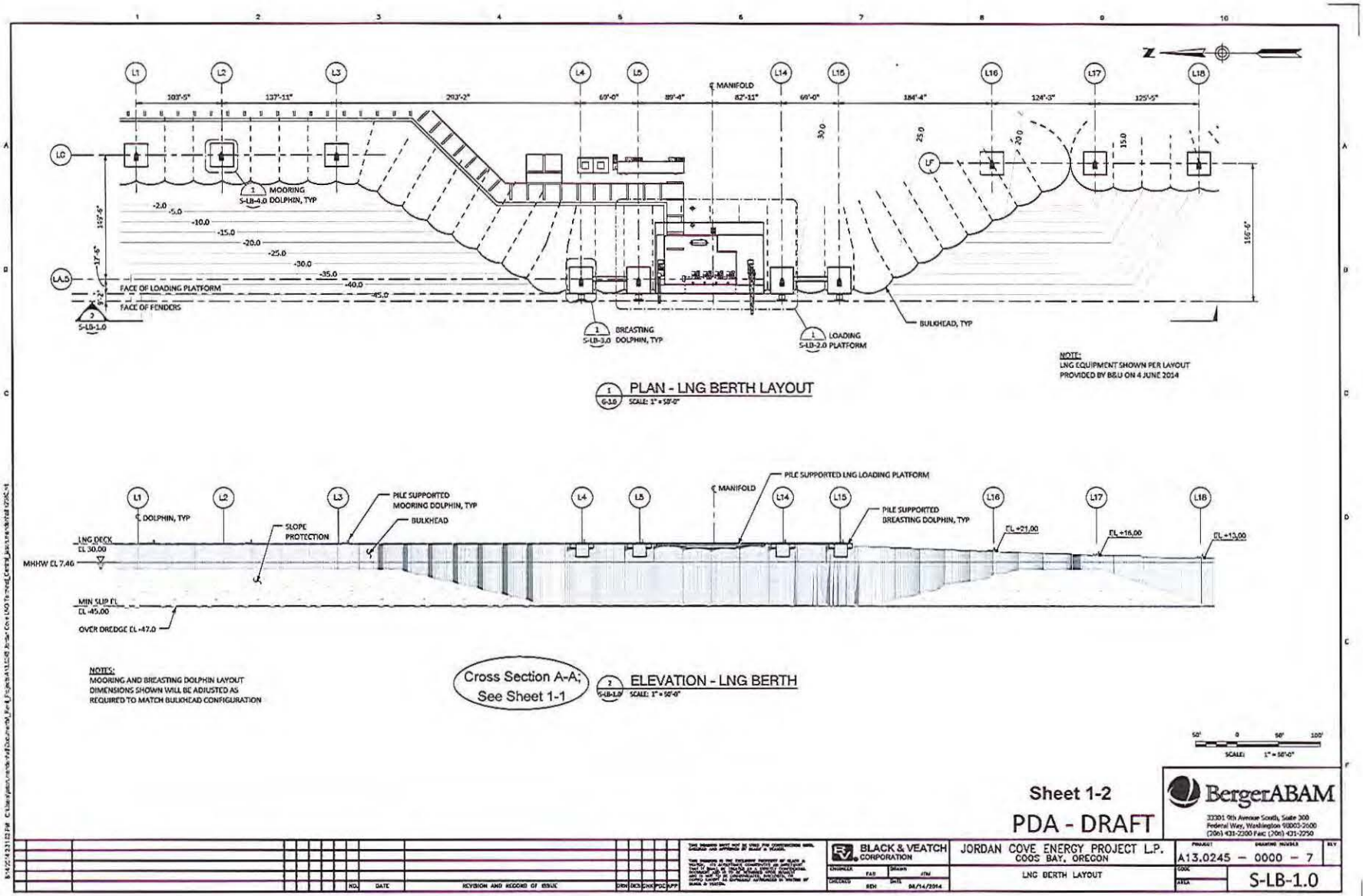
JORDAN COVE ENERGY PROJECT PERMIT APPLICATION
COOS COUNTY

Reviewed By - LPST
Designed By - JND
Drafted By - JND

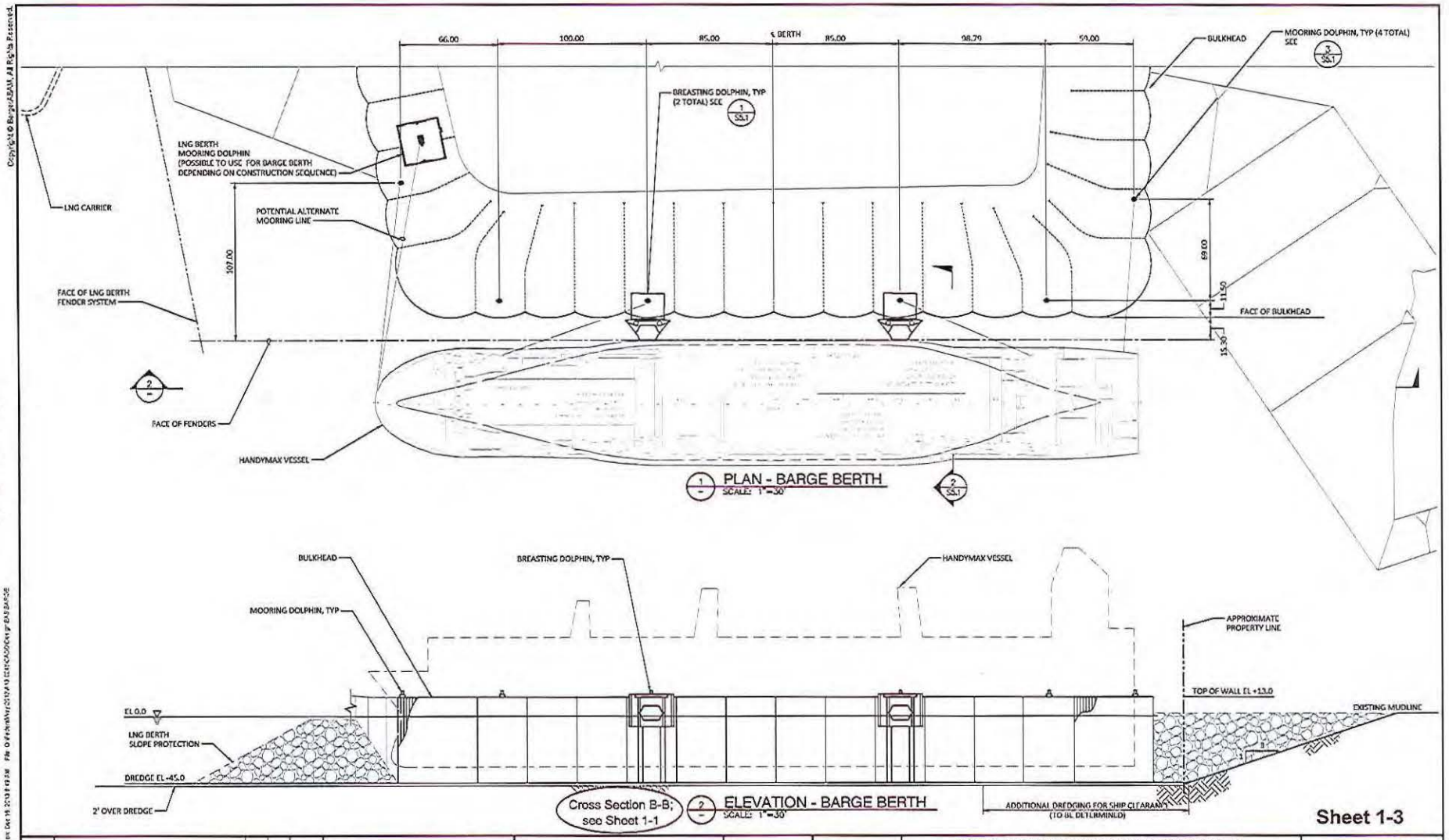
Slip and Access Channel Footprint Boundary

SHEET NO. 1-1

P:\JOCEP\0000000410400CAD\EC\Exhibits and Sheets\404-Slip and Access Channel\1-1_404_Slip and access channel.dwg jnd Oct 16, 2014 10:39am



L1
L2
L3
L4
L5
L14
L15
L16
L17
L18
℄ MANIFOLD
103'-5"
137'-11"
293'-2"
69'-0"
89'-4"
82'-11"
69'-0"
184'-4"
124'-3"
125'-5"
LC
LF
LA.5
MOORING DOLPHIN, TYP
S-LB-4.0
-2.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
-35.0
-40.0
-45.0
FACE OF LOADING PLATFORM
FACE OF FENDERS
S-LB-1.0
BREASTING DOLPHIN, TYP
S-LB-3.0
LOADING PLATFORM
S-LB-2.0
BULKHEAD, TYP
NOTE:
LNG EQUIPMENT SHOWN PER LAYOUT PROVIDED BY B&U ON 4 JUNE 2014
PLAN - LNG BERTH LAYOUT
SCALE: 1" = 50'-0"
PILE SUPPORTED LNG LOADING PLATFORM
PILE SUPPORTED MOORING DOLPHIN, TYP
BULKHEAD
SLOPE PROTECTION
℄ DOLPHIN, TYP
PILE SUPPORTED BREASTING DOLPHIN, TYP
EL +21.00
EL +16.00
EL +13.00
LNG DECK EL 30.00
MHHW EL 7.46
MIN SLIP EL EL -45.00
OVER DREDGE EL -47.0
NOTES:
MOORING AND BREASTING DOLPHIN LAYOUT DIMENSIONS SHOWN WILL BE ADJUSTED AS REQUIRED TO MATCH BULKHEAD CONFIGURATION
Cross Section A-A; See Sheet 1-1
ELEVATION - LNG BERTH
SCALE: 1" = 50'-0"
SCALE: 1" = 50'-0"
Sheet 1-2
PDA - DRAFT
BergerABAM
33301 9th Avenue South, Suite 300
Federal Way, Washington 98003-2600
(206) 431-2300 Fax: (206) 431-2250
BLACK & VEATCH CORPORATION
JORDAN COVE ENERGY PROJECT L.P.
COOS BAY, OREGON
LNG BERTH LAYOUT
A13.0245 – 0000 – 7
S-LB-1.0
NO. DATE REVISION AND RECORD OF ISSUE



Sheet 1-3

MARK	REVISION DESCRIPTION	BY	APP.	DATE

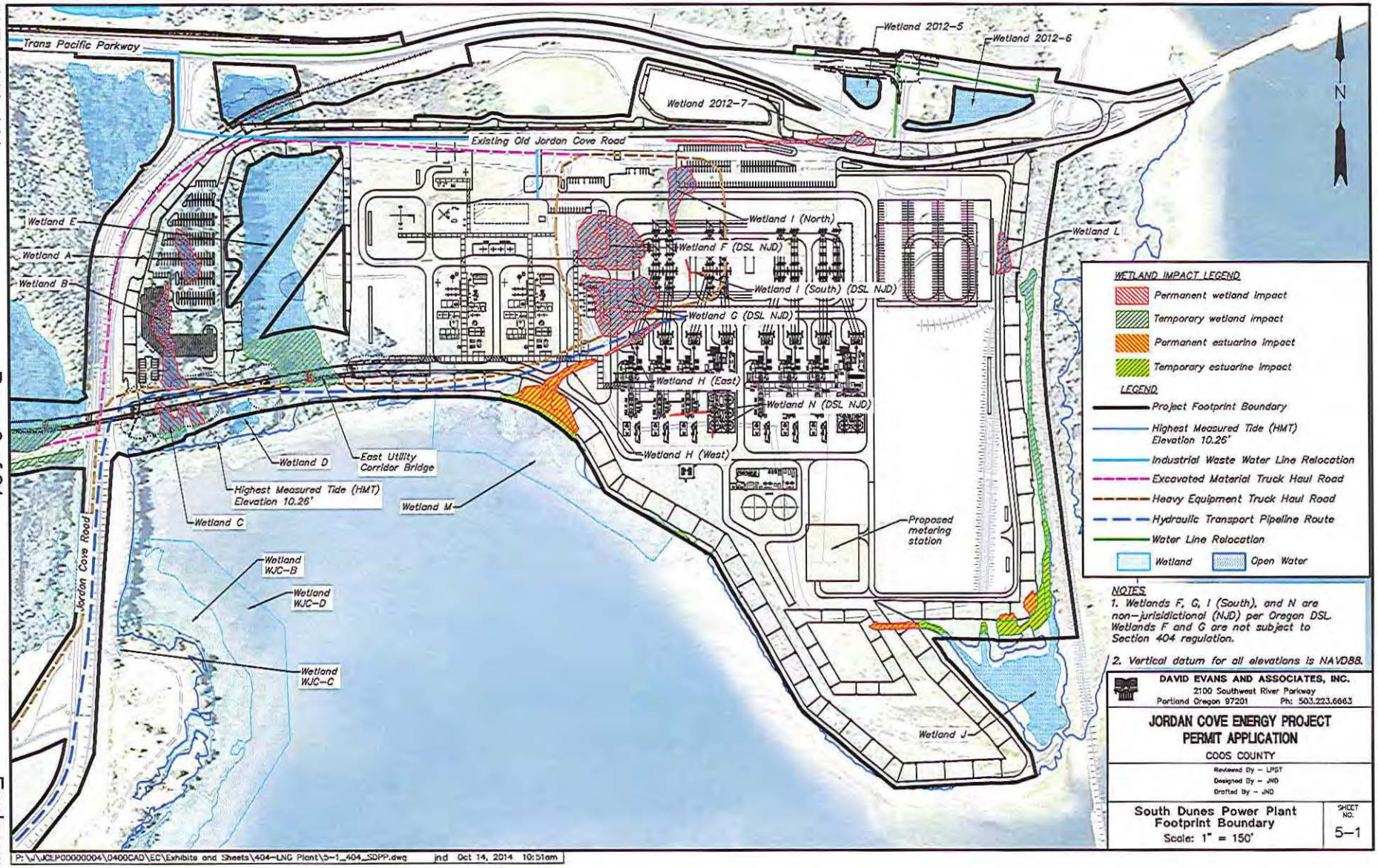
BergerABAM
33301 9th Avenue South, Suite 300
Federal Way, Washington 98003-2600
(206) 431-2300 Fax: (206) 431-2250

DRAWN BY MDB
DESIGN BY EAS
CHECK BY FLY
PROJ MGR EWD

JORDAN COVE ENERGY PROJECT L.P.
JORDAN COVE LNG TERMINAL COOS BAY, OREGON
APPENDIX A PRE PDA PHASE DRAWINGS

CONCEPTUAL BARGE BERTH SITE PLAN

DRAWING NO. S5.0
PROJECT NO. A13.0245
DATE: 12/13/13
SHEET NO. 1 OF 2


Trans Pacific Parkway
Wetland 2012-5
Wetland 2012-6
Wetland 2012-7
Existing Old Jordan Cove Road
N
Wetland E
Wetland A
Wetland B
Wetland I (North)
Wetland F (DSL NJD)
Wetland I (South) (DSL NJD)
Wetland G (DSL NJD)
Wetland H (East)
Wetland N (DSL NJD)
Wetland H (West)
Wetland L
Wetland D
East Utility Corridor Bridge
Highest Measured Tide (HMT) Elevation 10.26'
Wetland M
Wetland C
Jordan Cove Road
Wetland WJC-B
Wetland WJC-D
Wetland WJC-C
Proposed metering station
Wetland J
WETLAND IMPACT LEGEND
Permanent wetland impact
Temporary wetland impact
Permanent estuarine impact
Temporary estuarine impact
LEGEND
Project Footprint Boundary
Highest Measured Tide (HMT) Elevation 10.26'
Industrial Waste Water Line Relocation
Excavated Material Truck Haul Road
Heavy Equipment Truck Haul Road
Hydraulic Transport Pipeline Route
Water Line Relocation
Wetland
Open Water
NOTES
1. Wetlands F, G, I (South), and N are non-jurisdictional (NJD) per Oregon DSL. Wetlands F and G are not subject to Section 404 regulation.
2. Vertical datum for all elevations is NAVD88.
DAVID EVANS AND ASSOCIATES, INC.
2100 Southwest River Parkway
Portland Oregon 97201 Ph: 503.223.6663
JORDAN COVE ENERGY PROJECT
PERMIT APPLICATION
COOS COUNTY
Reviewed By – LPST
Designed By – JND
Drafted By – JND
South Dunes Power Plant
Footprint Boundary
Scale: 1" = 150'
SHEET NO.
5-1
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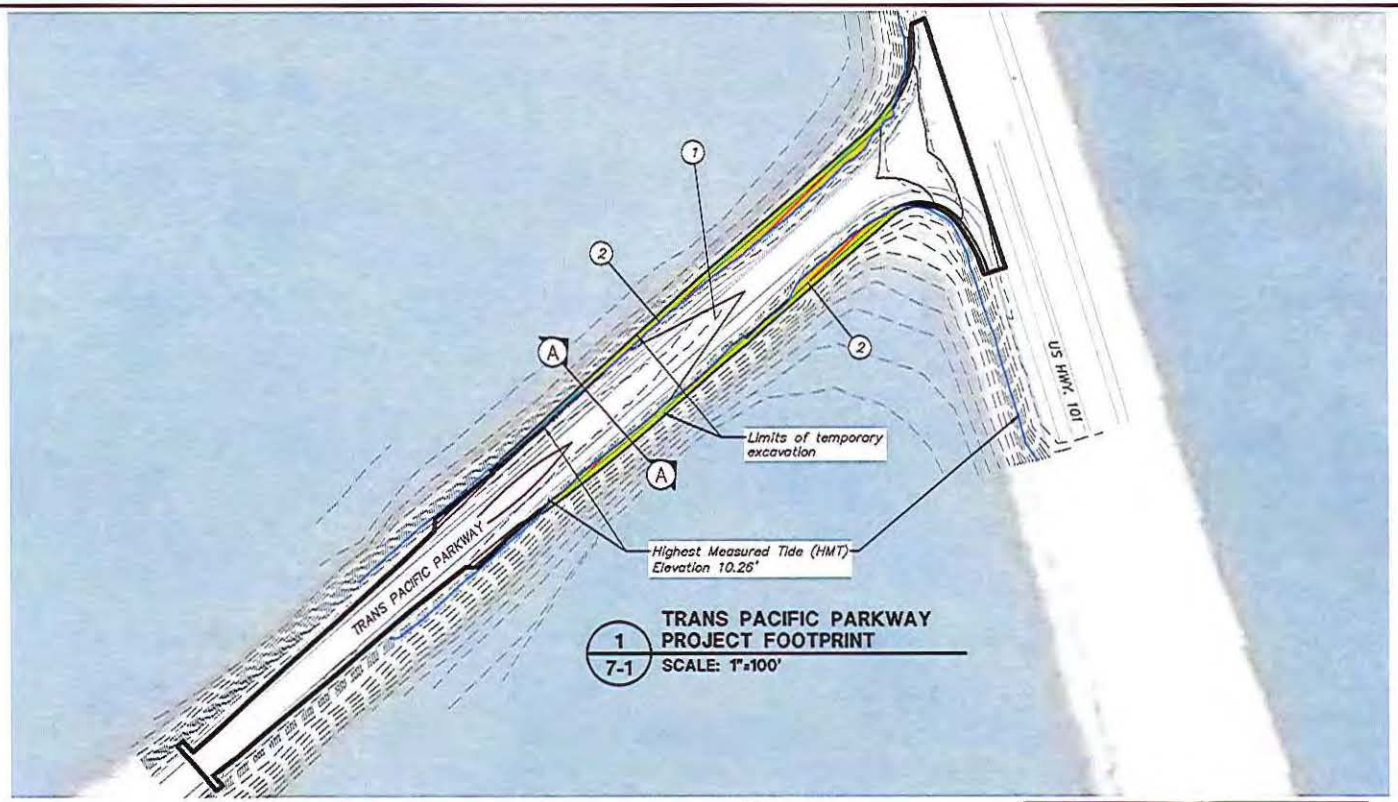
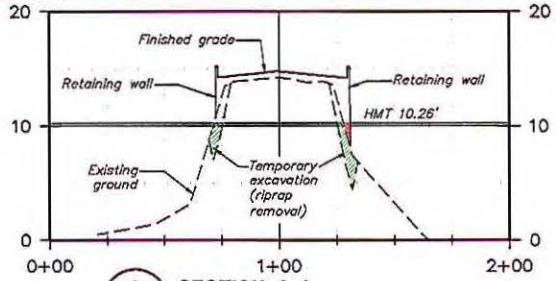
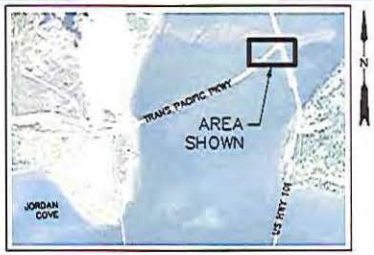


1 / 7-1 TRANS PACIFIC PARKWAY PROJECT FOOTPRINT
SCALE: 1"=100'



2 / 7-1 SECTION A-A
SCALE: H:1"=50' V:1"=10'



3 / 7-1 KEY MAP
SCALE: 1"=3000'

LEGEND

1 Trans Pacific Parkway
2 Sheet pile retaining wall
Project Footprint Boundary
Existing contour (1' interval)
Proposed contour (1' interval)
Highest Measured Tide (HMT) Elevation 10.26'

IMPACT LEGEND

Temporary estuarine impact
Permanent estuarine impact

0 50 100 200

NOTE: Vertical datum for all elevations is NAVD88.

DAVID EVANS AND ASSOCIATES, INC.
2100 Southwest River Parkway
Portland Oregon 97201 Ph: 503.223.6663

JORDAN COVE ENERGY PROJECT
PERMIT APPLICATION
COOS COUNTY

Reviewed By - LPST
Designed By - JND
Drafted By - JND

Trans Pacific Parkway Footprint Boundary

SHEET NO. 7–1

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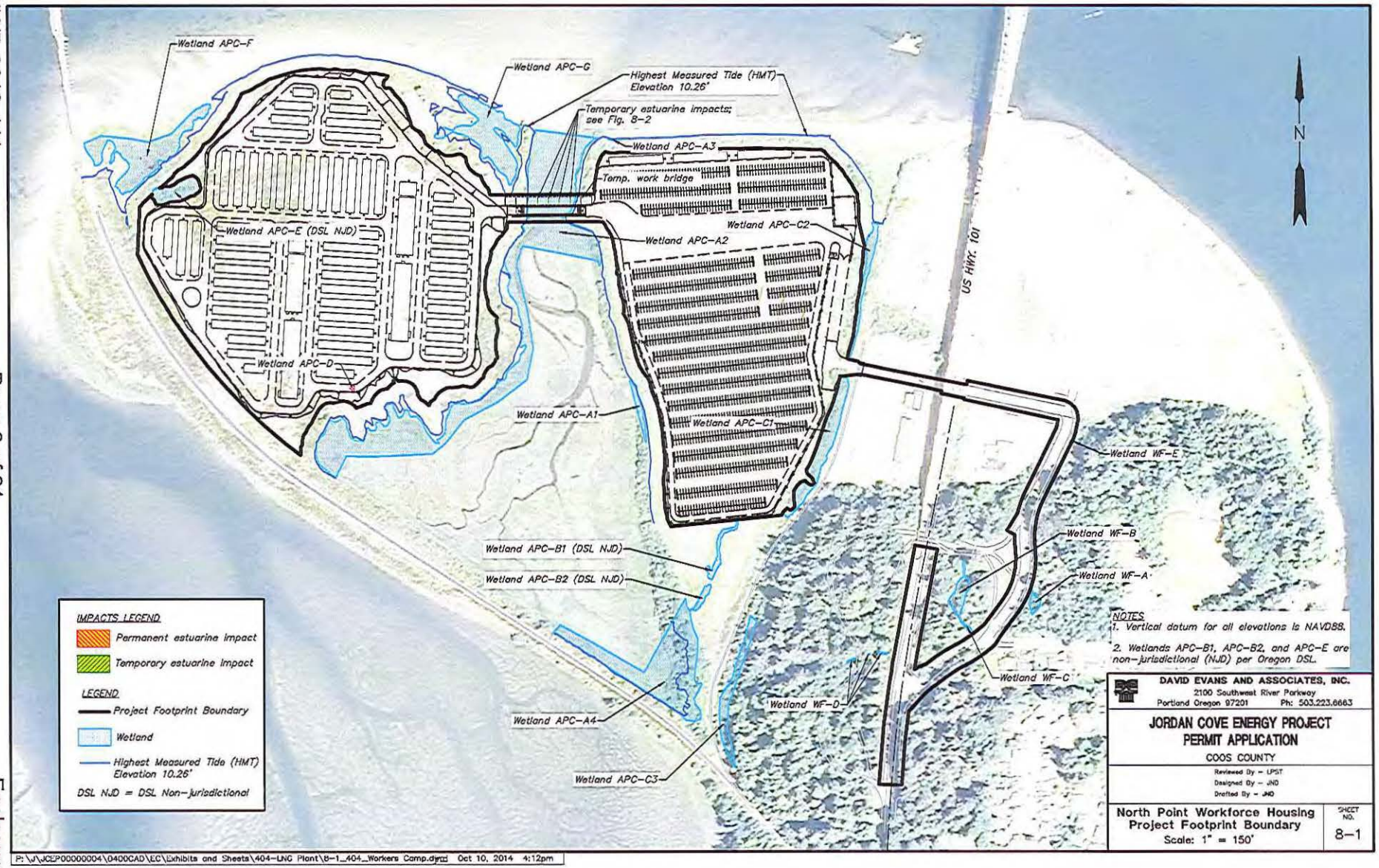
Wetland APC-F
Wetland APC-G
Highest Measured Tide (HMT) Elevation 10.26'
Temporary estuarine impacts; see Fig. 8-2
Wetland APC-A3
Temp. work bridge
Wetland APC-C2
Wetland APC-A2
Wetland APC-E (DSL NJD)
Wetland APC-D
Wetland APC-A1
Wetland APC-C1
US Hwy. 101
N
Wetland WF-E
Wetland WF-B
Wetland WF-A
Wetland APC-B1 (DSL NJD)
Wetland APC-B2 (DSL NJD)
Wetland WF-C
Wetland WF-D
Wetland APC-A4
Wetland APC-C3
IMPACTS LEGEND
Permanent estuarine impact
Temporary estuarine impact
LEGEND
Project Footprint Boundary
Wetland
Highest Measured Tide (HMT) Elevation 10.26'
DSL NJD = DSL Non-jurisdictional
NOTES
1. Vertical datum for all elevations is NAVD88.
2. Wetlands APC-B1, APC-B2, and APC-E are non-jurisdictional (NJD) per Oregon DSL.
DAVID EVANS AND ASSOCIATES, INC.
2100 Southwest River Parkway
Portland Oregon 97201 Ph: 503.223.6663
JORDAN COVE ENERGY PROJECT
PERMIT APPLICATION
COOS COUNTY
Reviewed By - LPST
Designed By - JND
Drafted By - JND
North Point Workforce Housing
Project Footprint Boundary
Scale: 1" = 150'
SHEET NO.
8-1
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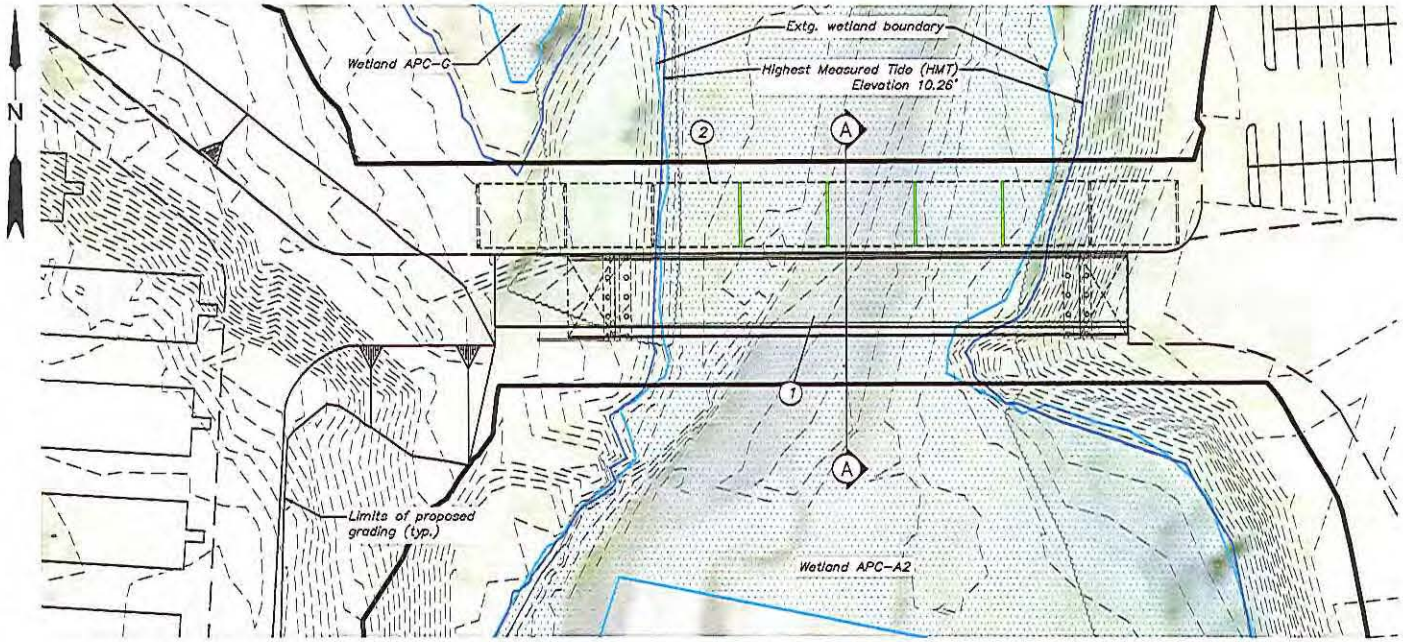


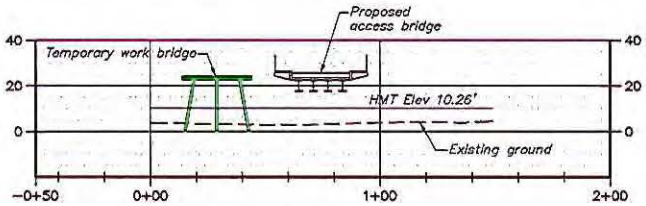
1 / 8-2 NORTH POINT WORKFORCE HOUSING PROJECT BRIDGE PROJECT FOOTPRINT
SCALE: 1"=50'

LEGEND

- (1) Permanent access bridge
- (2) Temporary work bridge
- LNG Project Footprint Boundary
- Existing contour (1' Interval)
- Highest Measured Tide (HMT) Elevation 10.26'
- Wetland

IMPACTS LEGEND

- Temporary estuarine impact



2 / 8-2 SECTION A-A
SCALE: 1"=50'

3 / 8-2 KEY MAP
SCALE: 1"=5000'

0 25 50 100

NOTE: Vertical datum for all elevations is NAVD88.

DAVID EVANS AND ASSOCIATES, INC.
2100 Southwest River Parkway
Portland Oregon 97201 Ph: 503.223.6663

JORDAN COVE ENERGY PROJECT
PERMIT APPLICATION
COOS COUNTY

Reviewed By – LPST
Designed By – JND
Drafted By – JND

North Point Workforce Housing
Project Bridge Footprint Wetland Impacts

SHEET NO. 8–2

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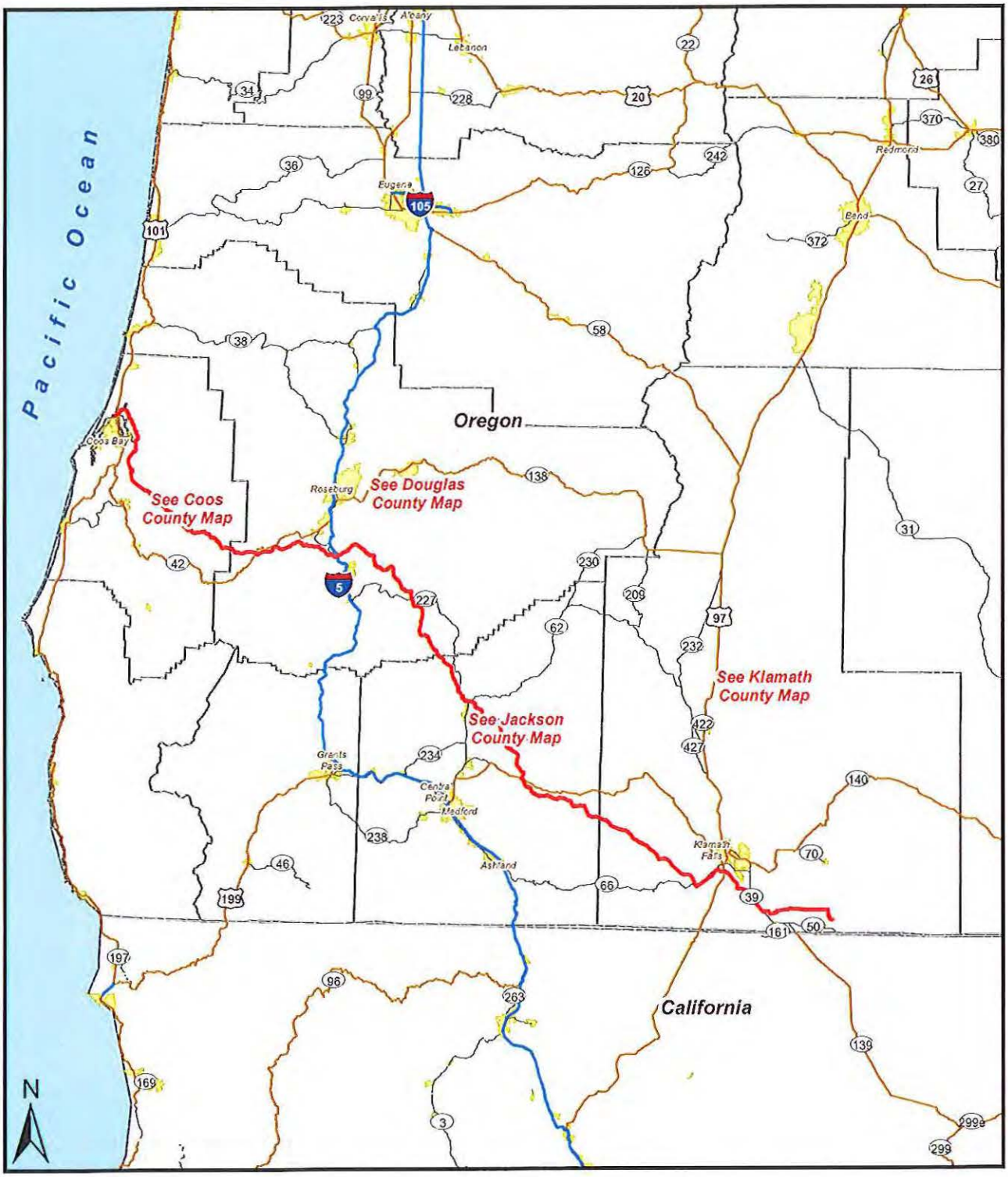


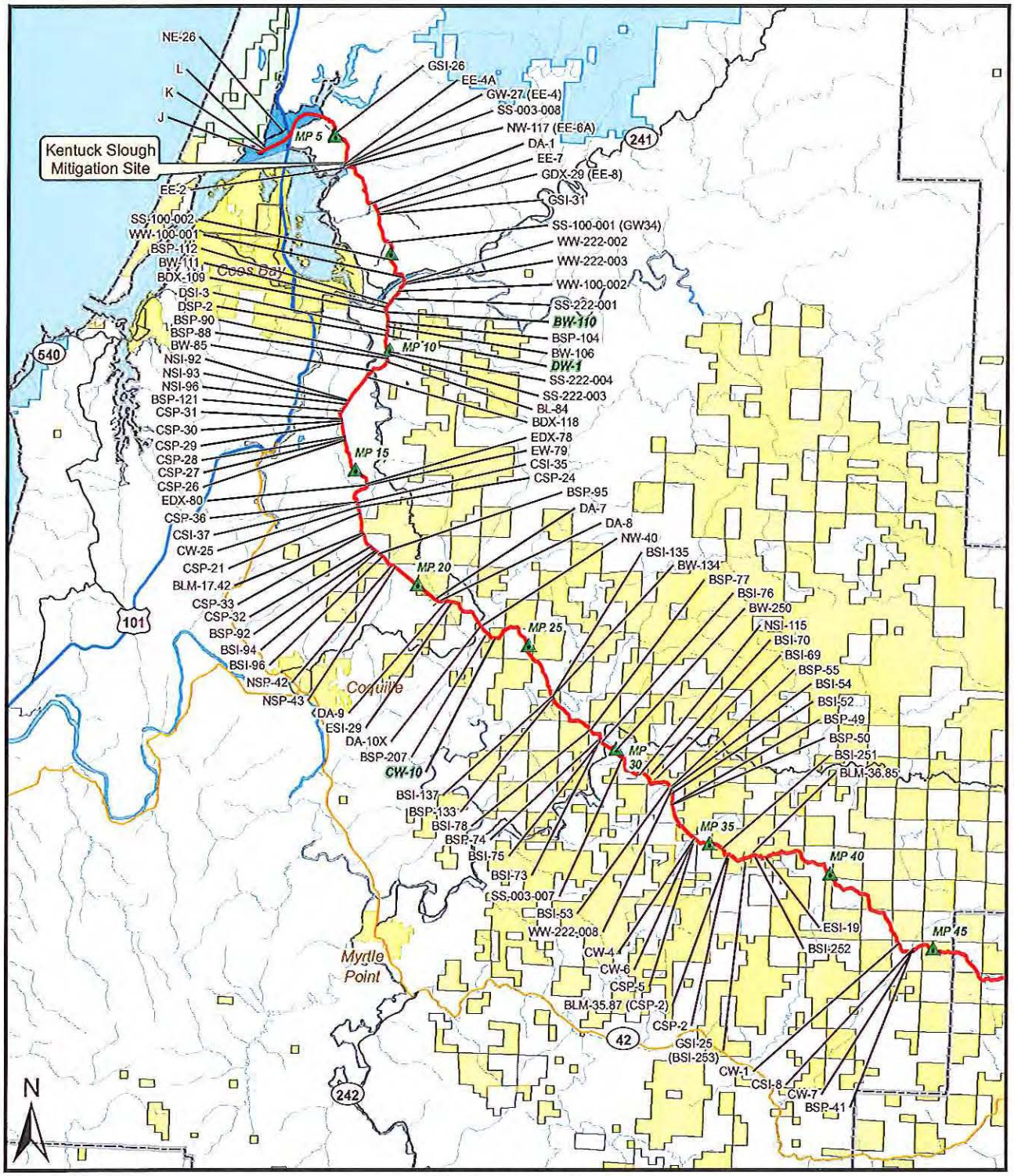
Proposed PCGP Centerline
Affected Counties

Reference: _____

Proposed: 36-Inch Natural Gas Pipeline
Purpose: Interstate Natural Gas Transmission
Applicant: Pacific Connector Gas Pipeline, LP

Sheet 1 of 12

Date: June, 2014



Coos County

▲ Milepost (5-mile)	Surface Ownership
— Proposed PCGP Centerline	BLM
— Wetlands with Permanent Conversion	USFS
	State
	Private

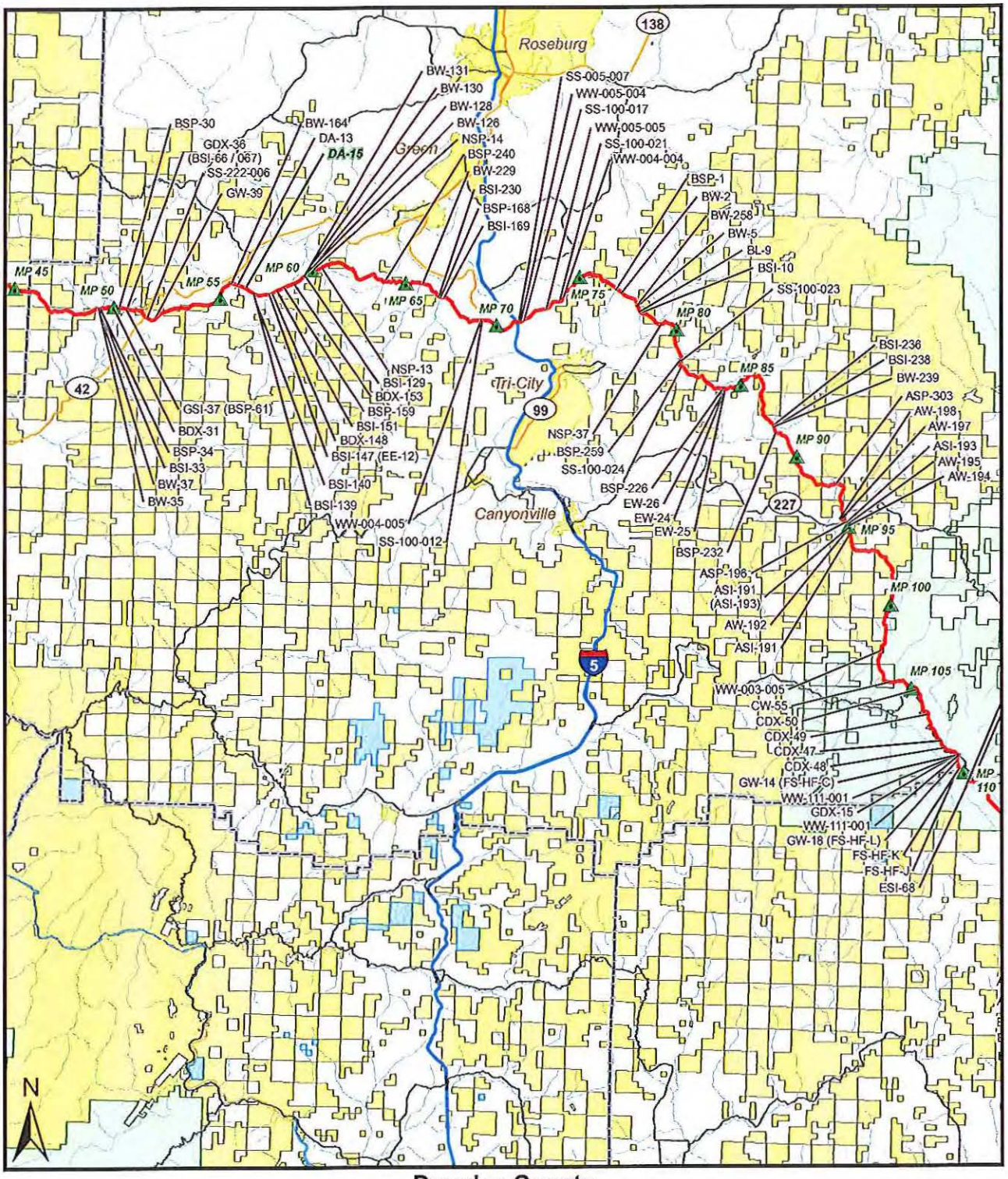
Reference: _____

Proposed: 36-Inch Natural Gas Pipeline
Purpose: Interstate Natural Gas Transmission
Applicant: Pacific Connector Gas Pipeline, LP

NOTE:
Naming conventions correlate to potential waters of the U.S.

Sheet 2 of 12

Date: September, 2014



Douglas County

▲ Milepost (5-mile)	Surface Ownership
Proposed PCGP Centerline	BLM
Wetlands with Permanent Conversion	USFS
	State
	Private

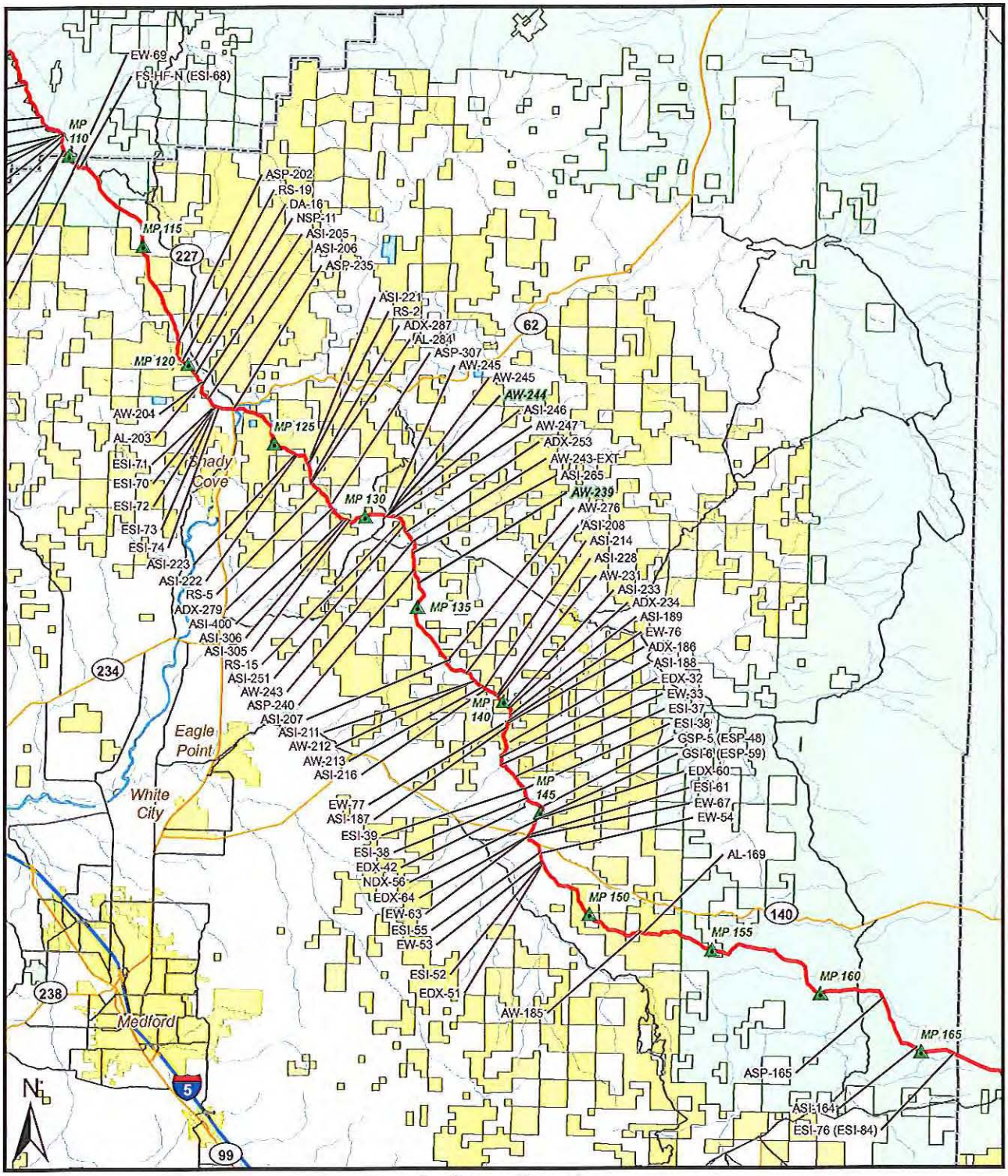
NOTE:
Naming conventions correlate to potential waters of the U.S.

Reference: _____

Proposed: 36-Inch Natural Gas Pipeline
Purpose: Interstate Natural Gas Transmission
Applicant: Pacific Connector Gas Pipeline, LP

Sheet 3 of 12

Date: September, 2014



Jackson County

▲ Milepost (5-mile)	Surface Ownership
Proposed PCGP Centerline	BLM
Wetlands with Permanent Conversion	USFS
	State
	Private

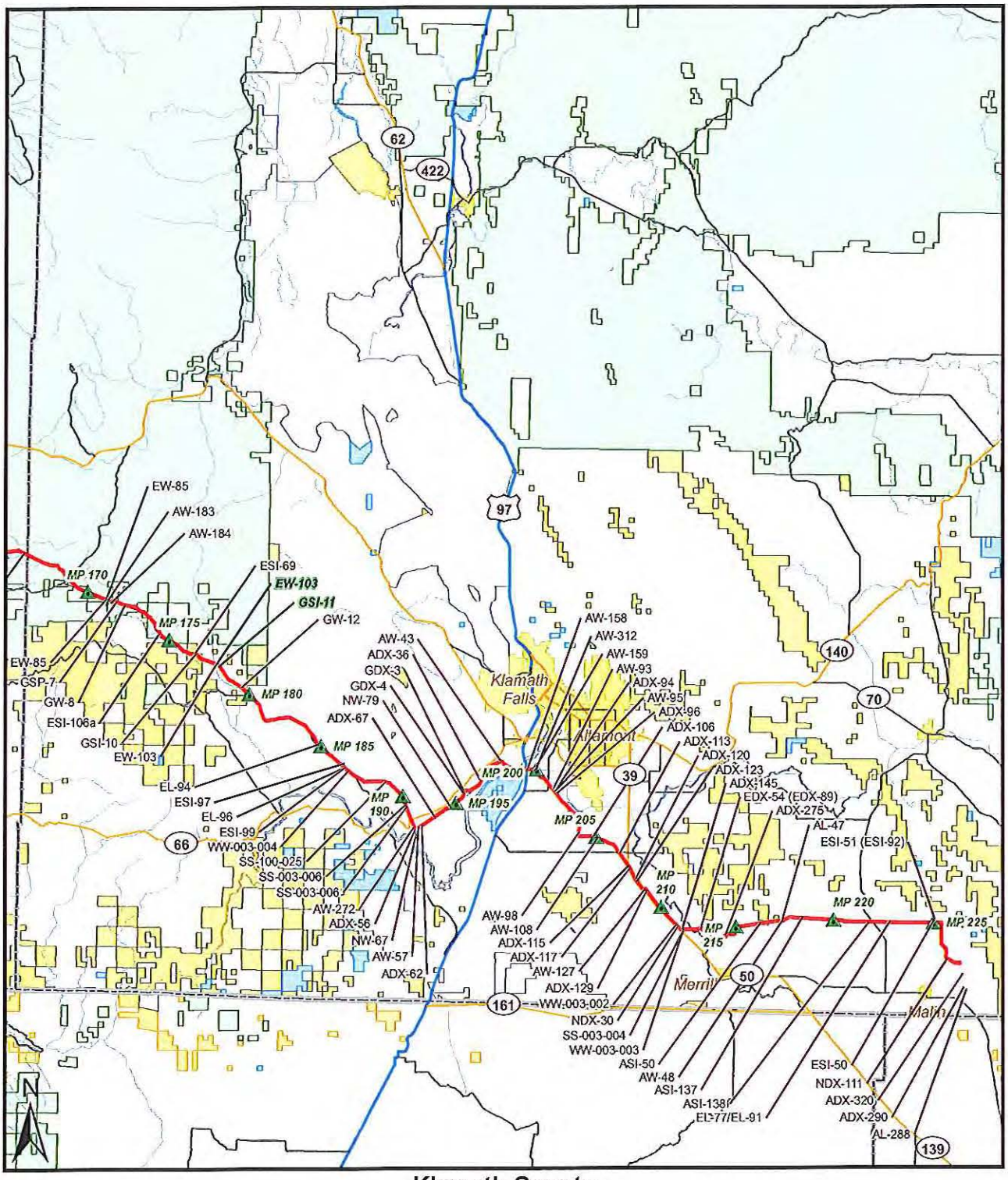
NOTE:
Naming conventions correlate to potential waters of the U.S.

Reference: _____

Proposed: 36-Inch Natural Gas Pipeline
Purpose: Interstate Natural Gas Transmission
Applicant: Pacific Connector Gas Pipeline, LP

Sheet 4 of 12

Date: September, 2014



Klamath County

▲ Milepost (5-mile)	Surface Ownership
Proposed PCGP Centerline	BLM
Wetlands with Permanent Conversion	USFS
	State
	Private

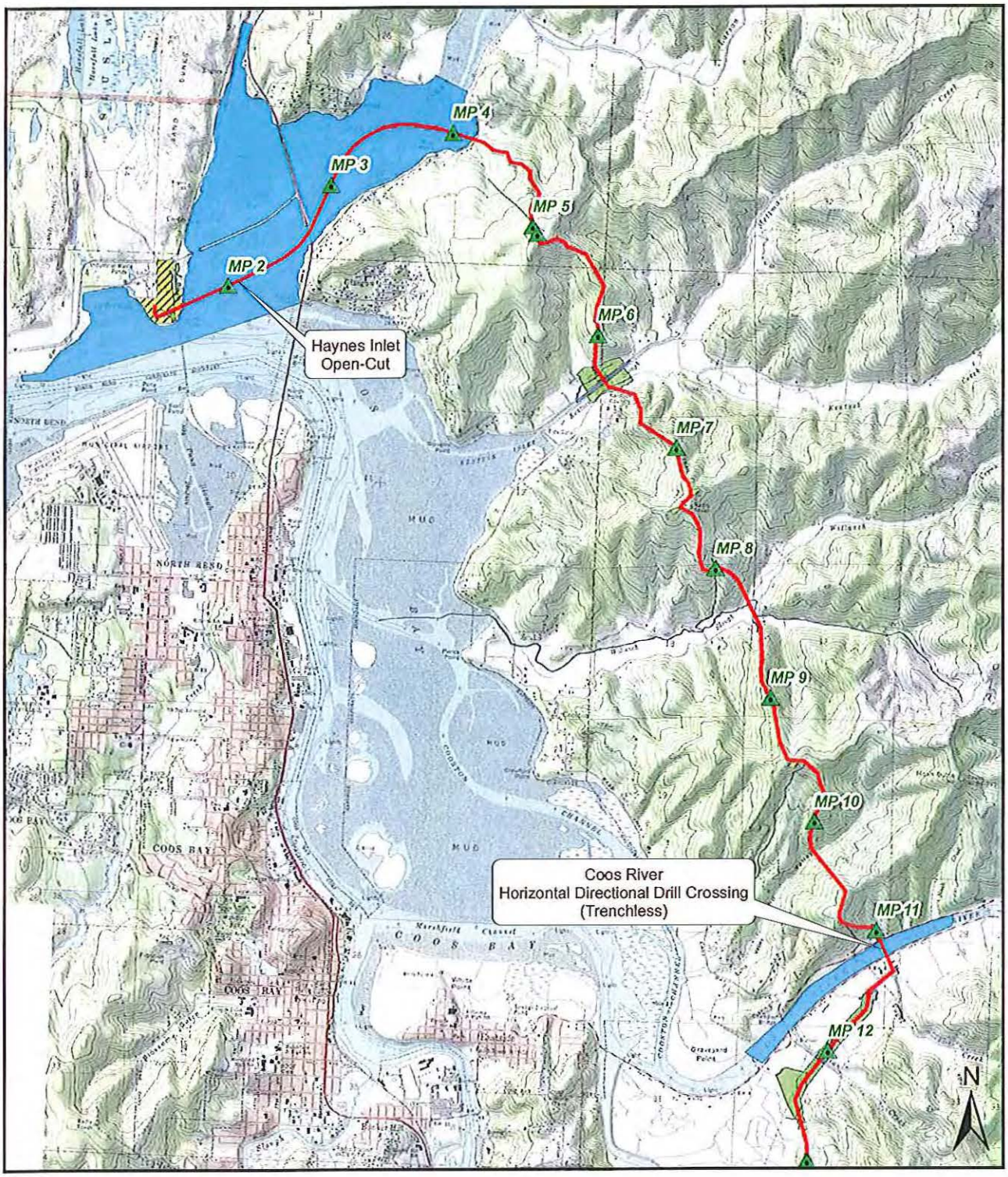
NOTE:
Naming conventions correlate to potential waters of the U.S.

Reference: _____

Proposed: 36-Inch Natural Gas Pipeline
Purpose: Interstate Natural Gas Transmission
Applicant: Pacific Connector Gas Pipeline, LP

Sheet 5 of 12

Date: September, 2014



Coos County - Haynes Inlet & Coos River

- Proposed 36-Inch Pipeline
- Waterbodies
- Wetlands
- Temporary Extra Work Space

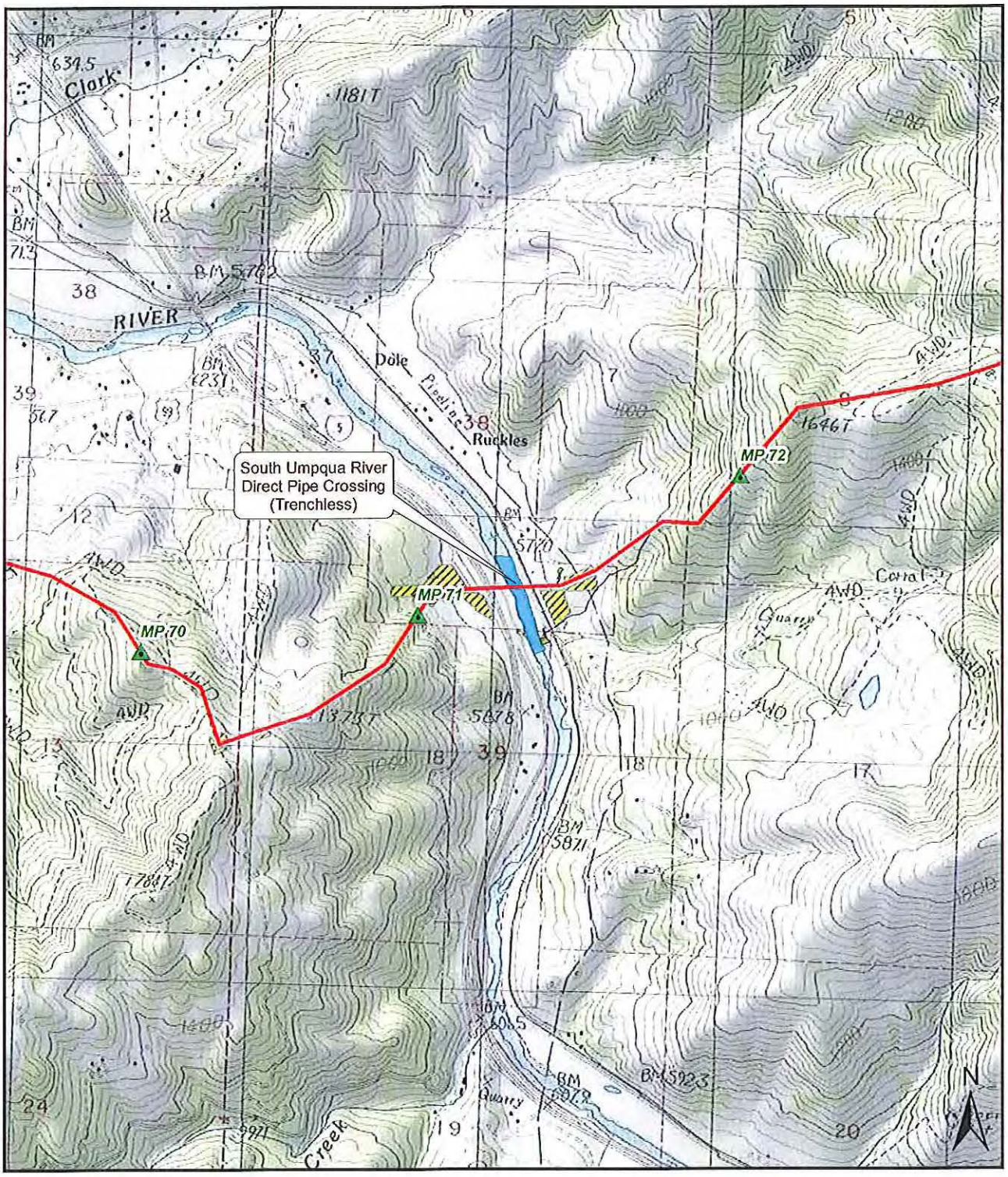
Scale: 1 inch = 5000 feet

Reference: _____

Proposed: 36-Inch Natural Gas Pipeline
Purpose: Interstate Natural Gas Transmission
Applicant: Pacific Connector Gas Pipeline, LP

Sheet 6 of 12

Date: September, 2014



Douglas County - South Umpqua River

- Proposed 36-Inch Pipeline
- Waterbodies
- Wetlands
- Temporary Extra Work Space

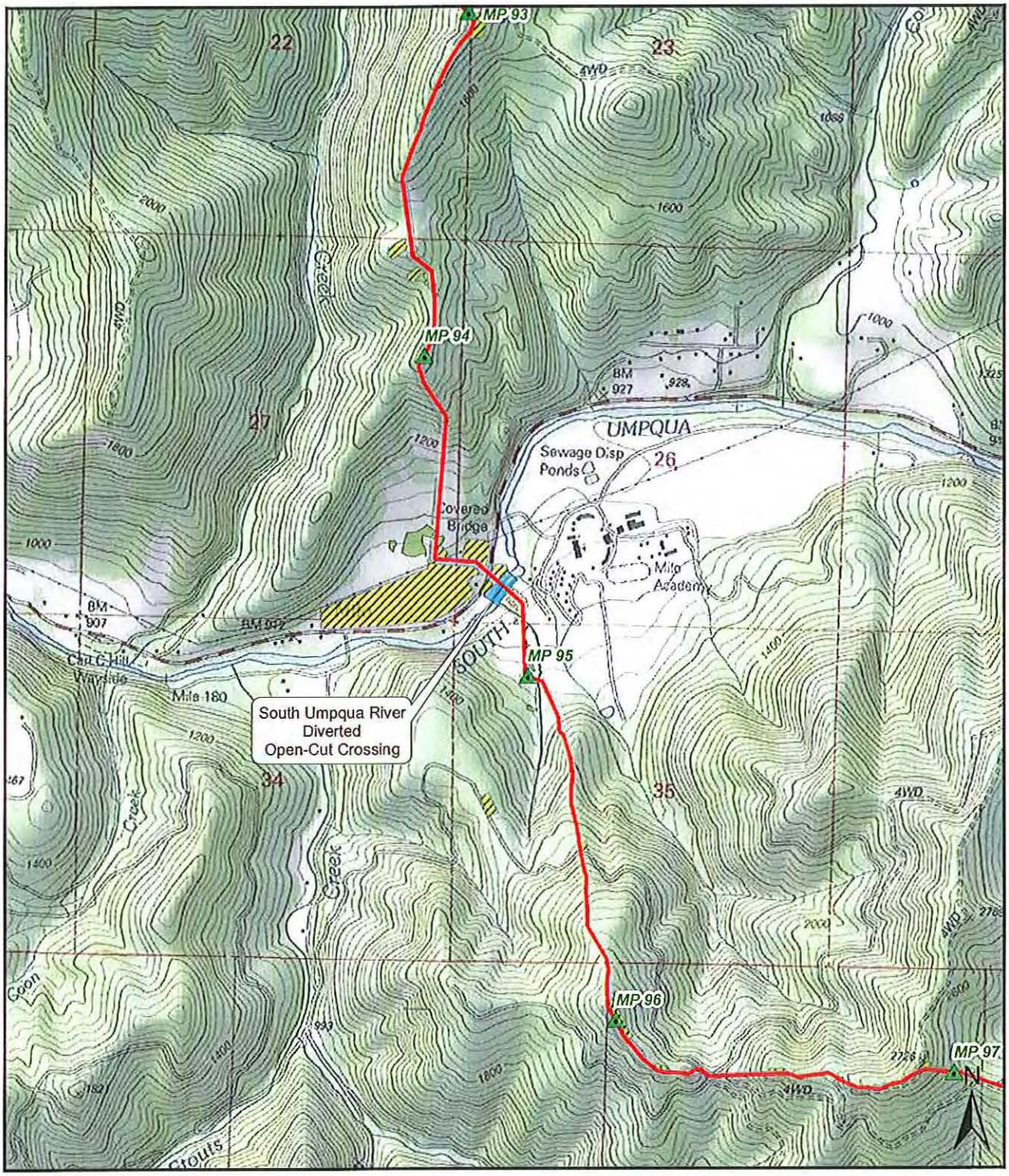
Scale: 1 inch = 2000 feet

Reference: _____

Proposed: 36-Inch Natural Gas Pipeline
Purpose: Interstate Natural Gas Transmission
Applicant: Pacific Connector Gas Pipeline, LP

Sheet 7 of 12

Date: September, 2014



Douglas County - South Umpqua River

- Proposed 36-Inch Pipeline
- Waterbodies
- Wetlands
- Temporary Extra Work Space

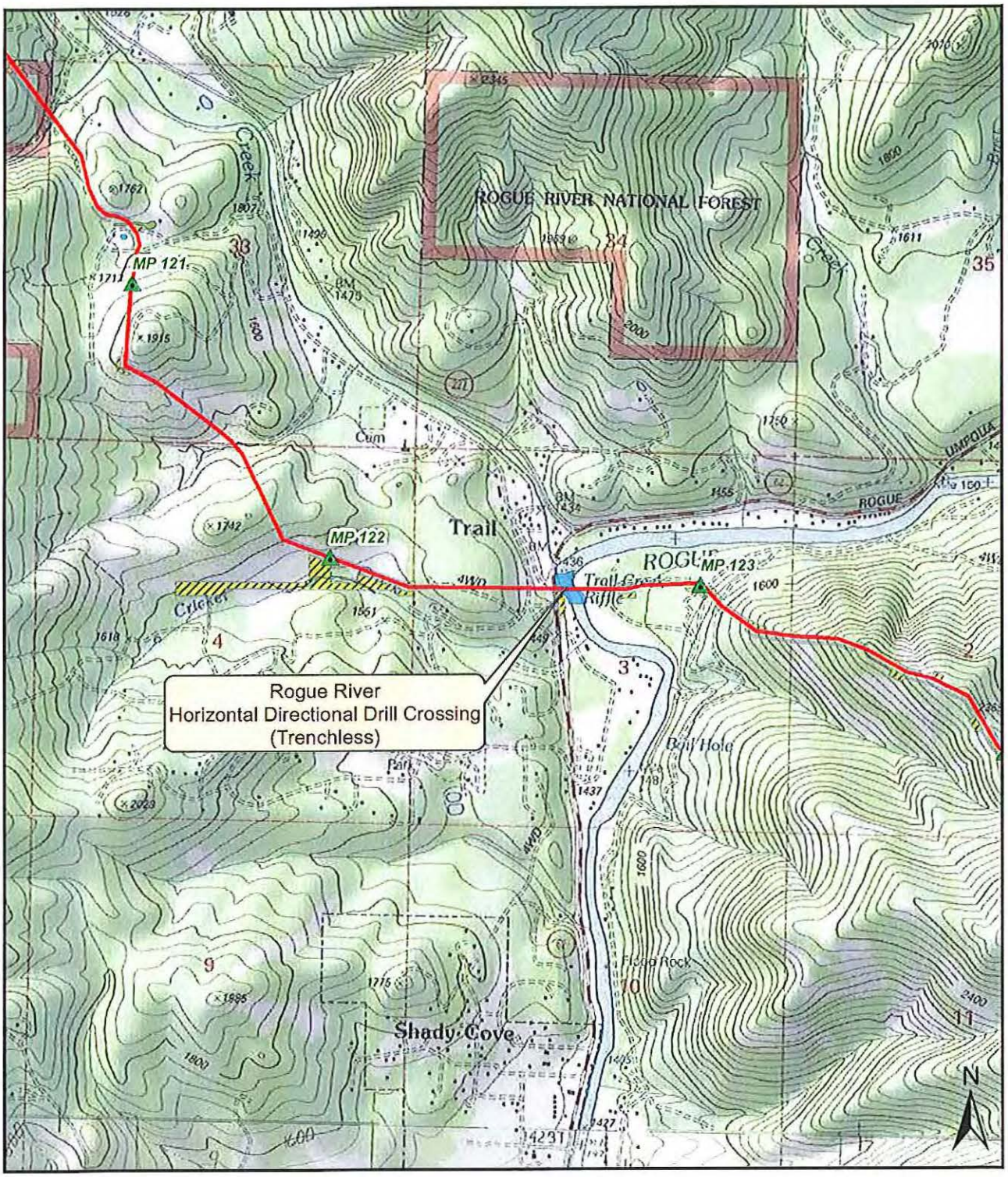
Scale: 1 inch = 2000 feet

Reference: _____

Proposed: 36-Inch Natural Gas Pipeline
Purpose: Interstate Natural Gas Transmission
Applicant: Pacific Connector Gas Pipeline, LP

Sheet 8 of 12

Date: September, 2014



Jackson County - Rogue River

- Proposed 36-Inch Pipeline
- Waterbodies
- Wetlands
- Temporary Extra Work Space

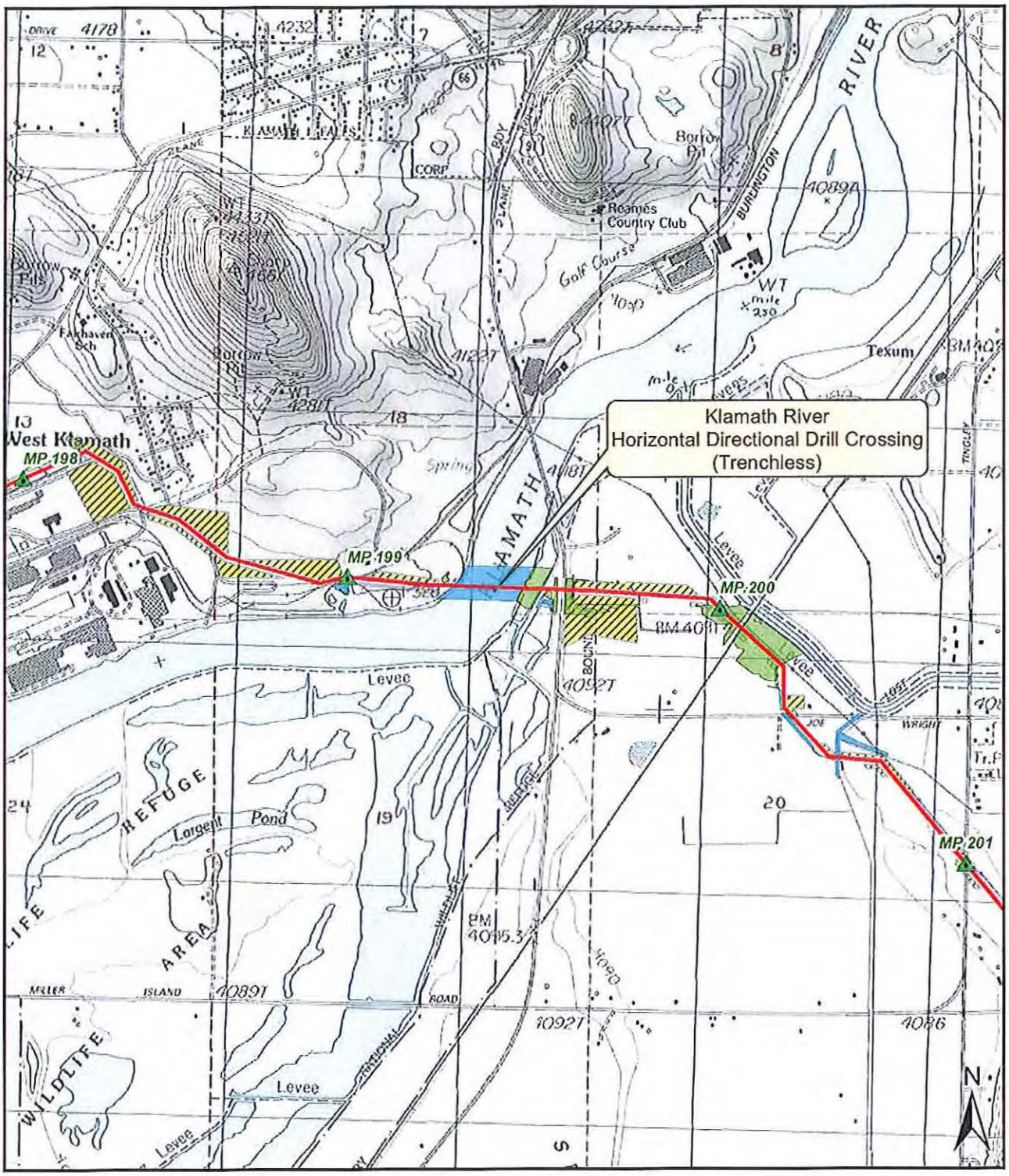
Scale: 1 inch = 2000 feet

Reference: _____

Proposed: 36-Inch Natural Gas Pipeline
Purpose: Interstate Natural Gas Transmission
Applicant: Pacific Connector Gas Pipeline, LP

Sheet 9 of 12

Date: September, 2014



Klamath County - Klamath River

- Proposed 36-Inch Pipeline
- Waterbodies
- Wetlands
- Temporary Extra Work Space

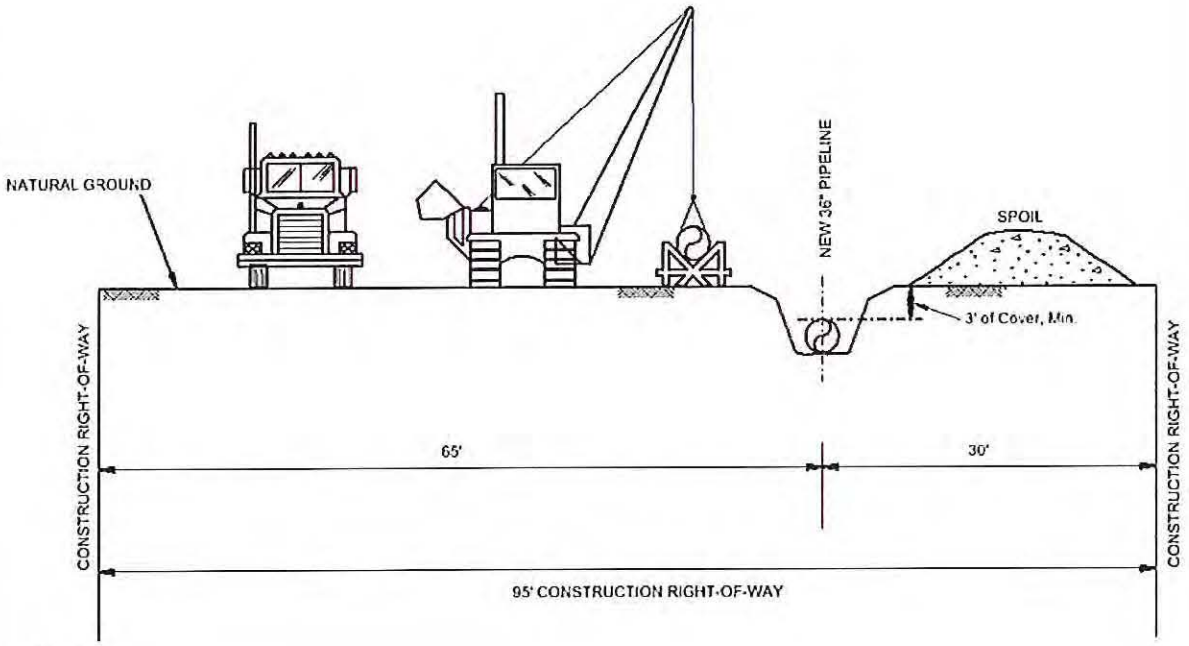
Scale: 1 inch = 2000 feet

Reference: _____

Proposed: 36-Inch Natural Gas Pipeline
Purpose: Interstate Natural Gas Transmission
Applicant: Pacific Connector Gas Pipeline, LP

Sheet 10 of 12

Date: September, 2014



NOTE:

95' CONSTRUCTION RIGHT-OF-WAY TYPICAL FOR LEVEL TERRAIN WITH NO CONSTRUCTION OBSTACLES.

WHERE FEASIBLE, THE CONSTRUCTION RIGHT-OF-WAY IN WETLANDS HAS BEEN NARROWED TO 75' IN WIDTH.

LOCATIONS REQUIRING ADDITIONAL WORK SPACE ARE
*** TOPSOIL AREAS**
*** UNLEVEL TERRAIN**
*** ROAD AND STREAM CROSSINGS**
*** HORIZONTAL DRILLING**

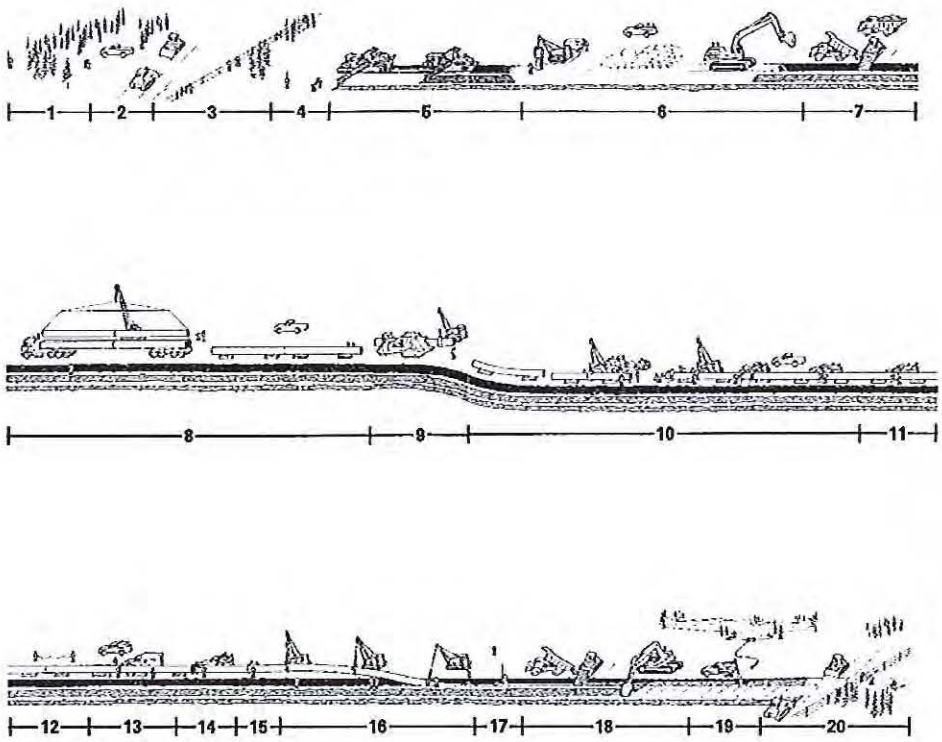
Reference: _____

Proposed: 36-Inch Natural Gas Pipeline
Purpose: Interstate Natural Gas Transmission
Applicant: Pacific Connector Gas Pipeline, LP

Sheet 11 of 12

Date: June, 2014

PIPELINE CONSTRUCTION SEQUENCE



LEGEND

1 - Right-of-Way Acquisition and Survey*
2 - Clearing and Grading
3 - Fencing
4 - Centerline Survey of Ditch*
5 - Ditching (Rock-Free)
6 - Ditching (Rock)
7 - Padding Ditch Bottom
8 - Stringing
9 - Bending
10 - Line Up, Stringer Bead and Hot Pass
11 - Fill and Cap Weld
12 - As-Built Footage*
13 - X-Ray* and Weld Repair
14 - Coating Field and Factory Welds
15 - Inspection (Jeeping) and Repair of Coating
16 - Lowering In and Tie-Ins
17 - As-Built Survey*
18 - Pad and Backfill
19 - Test and Final Tie-In
20 - Replace Topsoil and Cleanup

*Owner's Responsibility

Reference: _____

Proposed: 36-Inch Natural Gas Pipeline
Purpose: Interstate Natural Gas Transmission
Applicant: Pacific Connector Gas Pipeline, LP

Sheet 12 of 12

Date: June, 2014