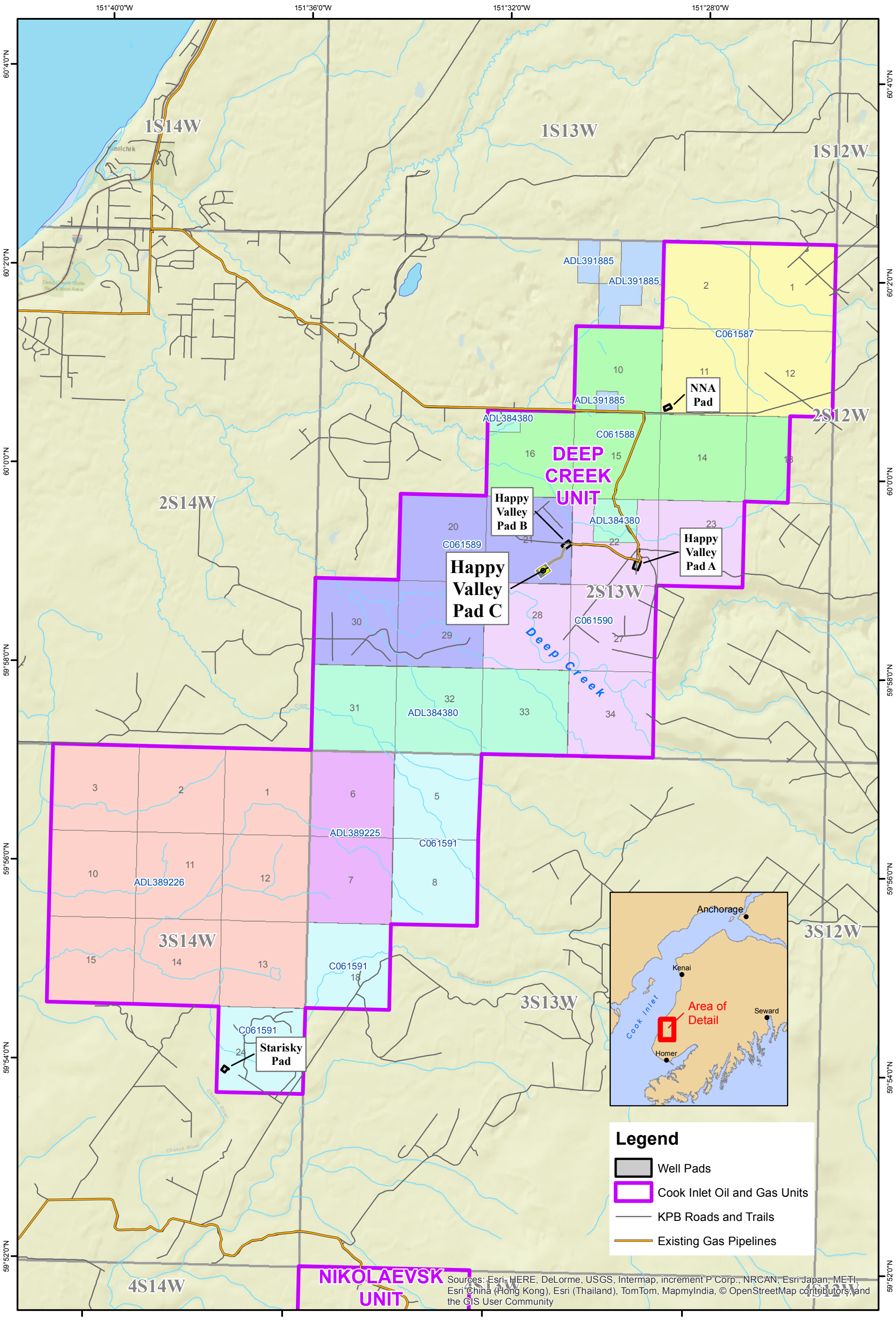


Hilcorp Alaska, LLC

Map Date: 7/9/2014

Deep Creek Unit Boundary and Associated Leases

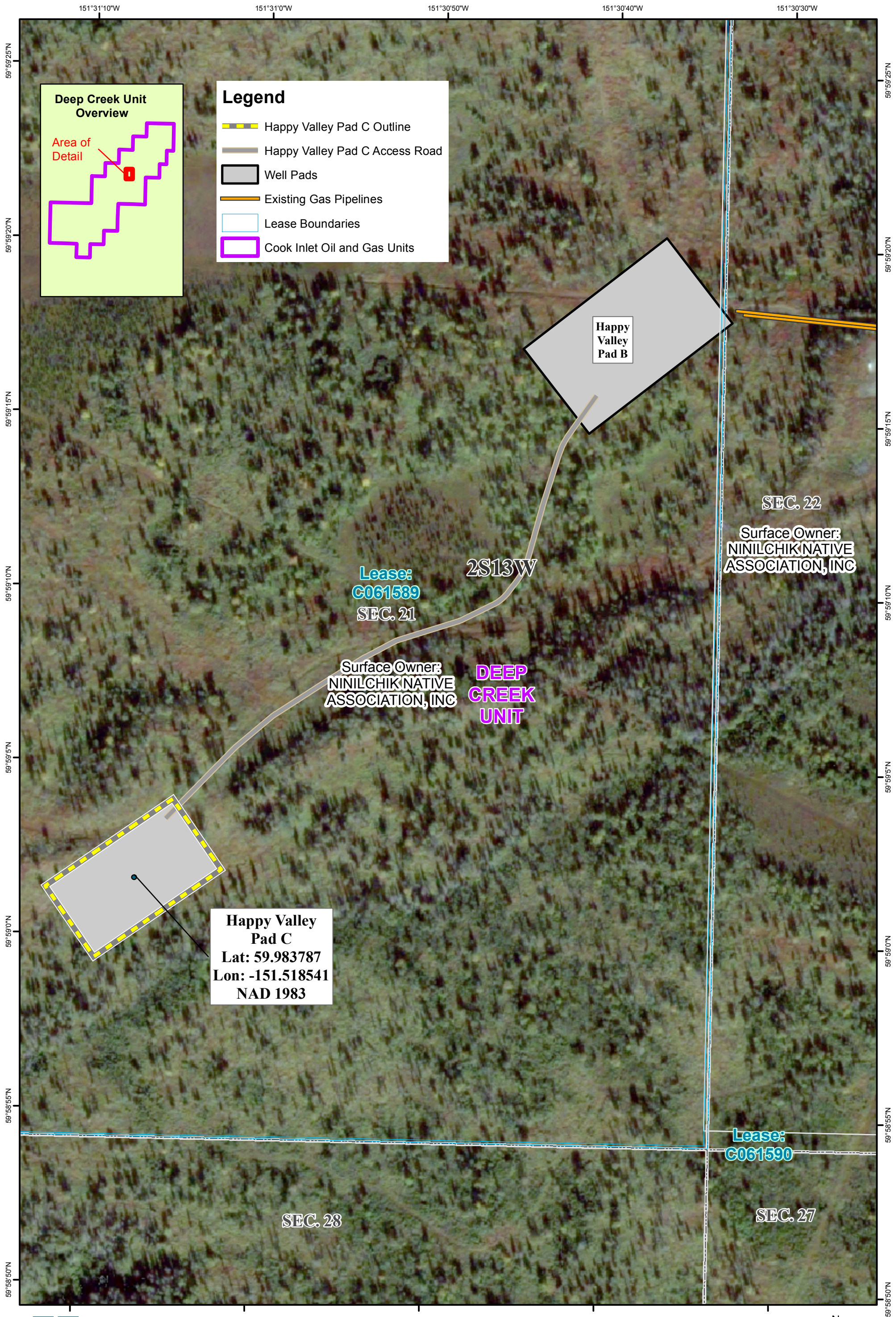
Figure 1

1 inch = 5,280 feet

N

Feet

0 5,000 10,000



Hilcorp Alaska, LLC

Map Date: 7/9/2014

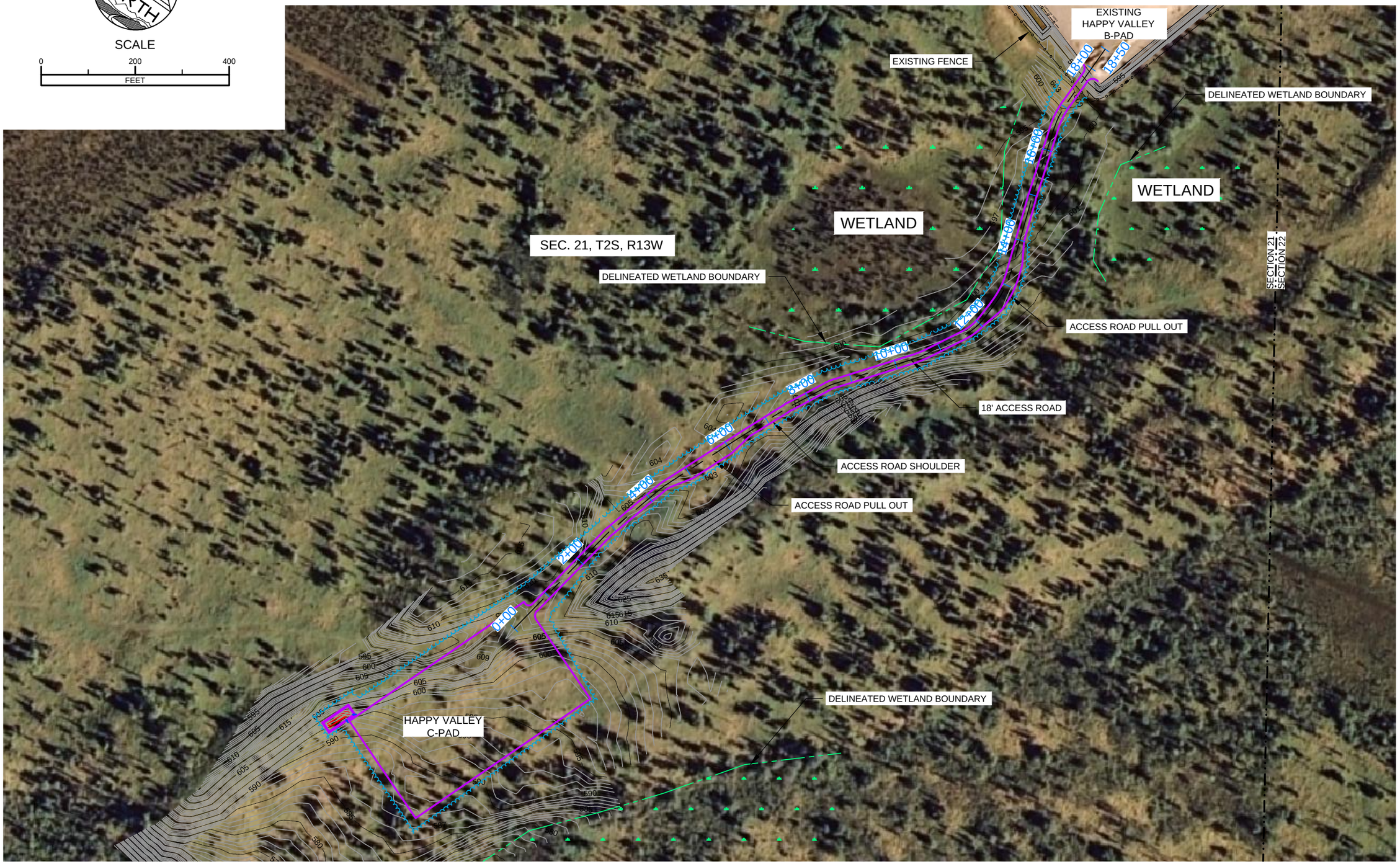
Happy Valley C Pad
Land Ownership

Figure 2

1 inch = 250 feet

N

0 100 200 300 400 500 Feet



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2	6/27/14	BID ISSUE	BGB
1	5/16/14	REVIEW ISSUE	BGB

HILCORP ALASKA LLC
C PAD
EXISTING CONDITIONS

Hilcorp Alaska, LLC

FIELD WORK DATE: NOV 2013

FIELD BOOK NO. 13-20 & 13-22

JOB NO. 133090

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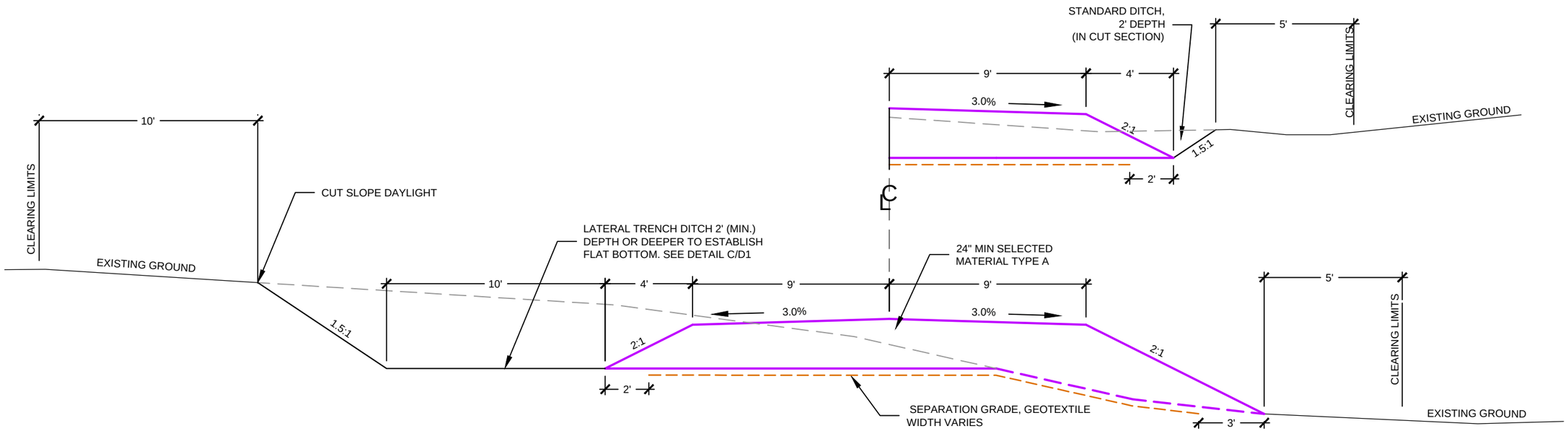
HORZ. SCALE: 1" = 200'

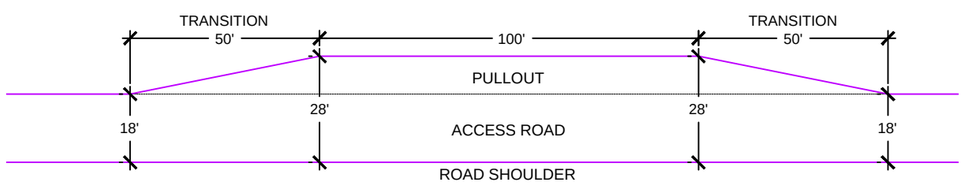
VERT. SCALE: N/A

Figure 3



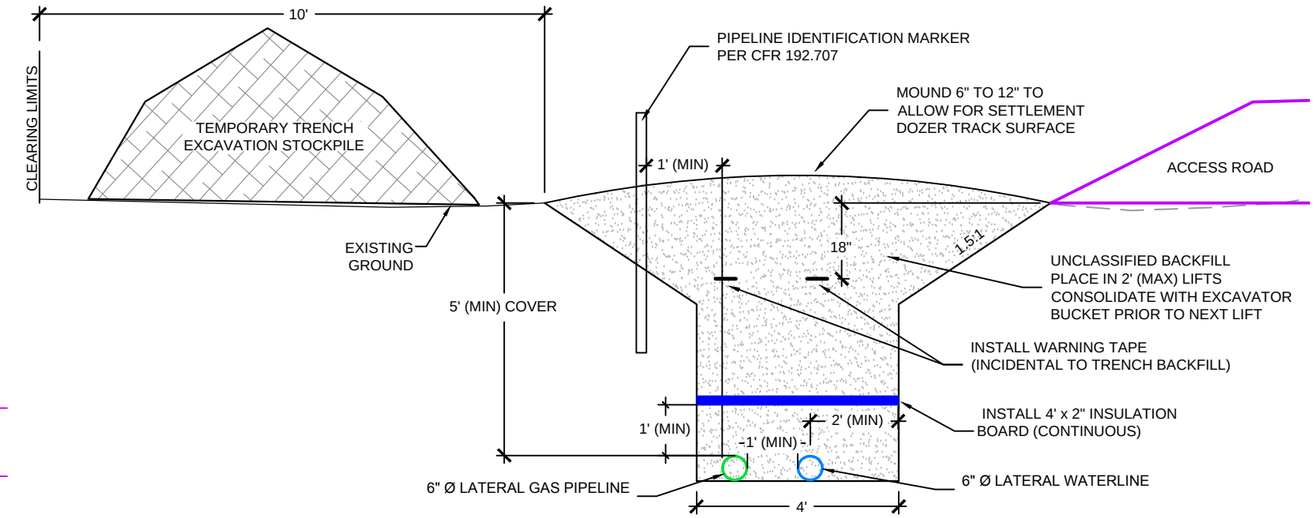
A/D1 18' ACCESS ROAD - TYPICAL SECTION

SCALE: 1" = 5'



B/D1 TYPICAL ACCESS ROAD PULLOUT

SCALE: 1" = 40' - STATIONS 4+50 - 6+50 & 12+00 - 14+00



NOTES:
1. MINIMUM 5' COVERAGE OVER PIPING.
2. UNCLASSIFIED EXCAVATION MAY BE USED AS BACKFILL AS LONG AS IS IT DOES NOT CONSIST OF LARGE ROCKS. SAND BEDDING MAY BE SUBSTITUTED IF THE UNCLASSIFIED EXCAVATION IS DEEMED UNSUITABLE. SAND SHALL BE INSTALLED USING A WATER JET METHOD. DO NOT BACKFILL WITH PEAT, MUCK OR OTHER DELETRIOUS MATERIALS.
3. 1' MINIMUM SEPARATION BETWEEN PIPES.
4. TRENCH SHOWN PER OSHA MANNED EXCAVATION GUIDELINES. VERTICAL WALLS AT THE BASE OF THE EXCAVATION MAY BE NO GREATER THAN 3.5'. SLOPE REMAINING PIT WALLS AT 1.5:1 (H:V)

C/D1 TYPICAL LATERAL TRENCH SECTION

SCALE: N.T.S.

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49TH
STAN A. McLANE
CE - 7963
REGISTERED PROFESSIONAL ENGINEER
6/27/14

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C PAD
DETAILS & TYPICAL SECTIONS

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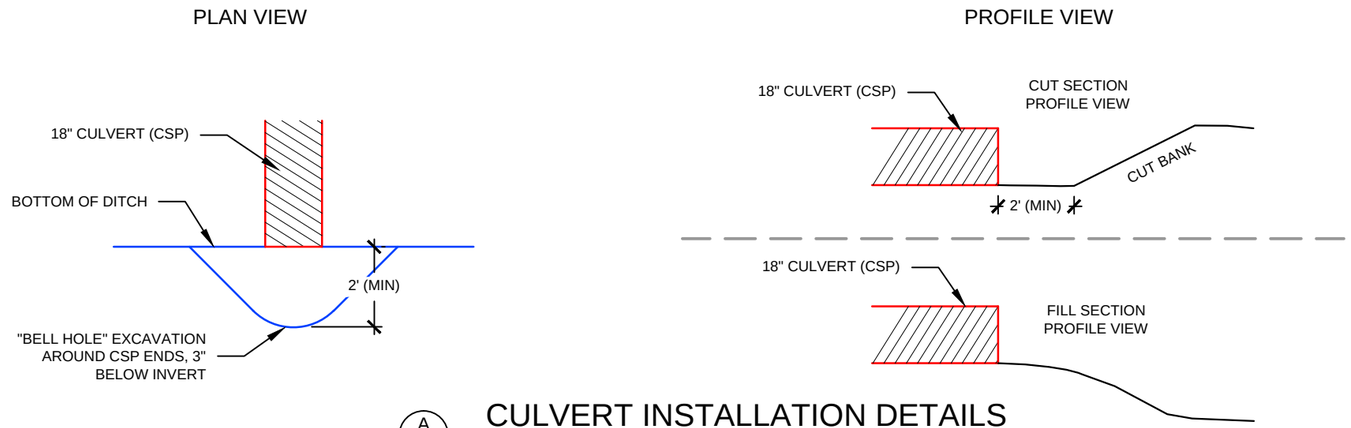
HORZ. SCALE: AS SHOWN
VERT. SCALE: N/A

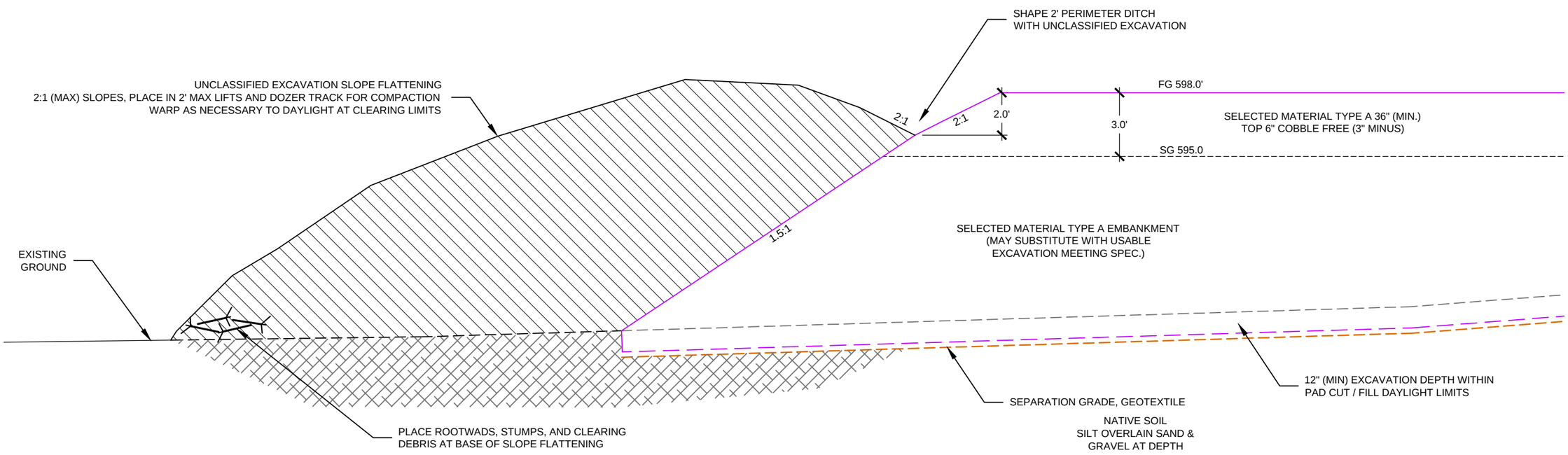
Figure 4



A
D2

CULVERT INSTALLATION DETAILS

SCALE: 1" = 4'



B
D2

PAD FILL SECTION

SCALE: 1" = 5'

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CE - 7963
REGISTERED PROFESSIONAL ENGINEER
6/27/14

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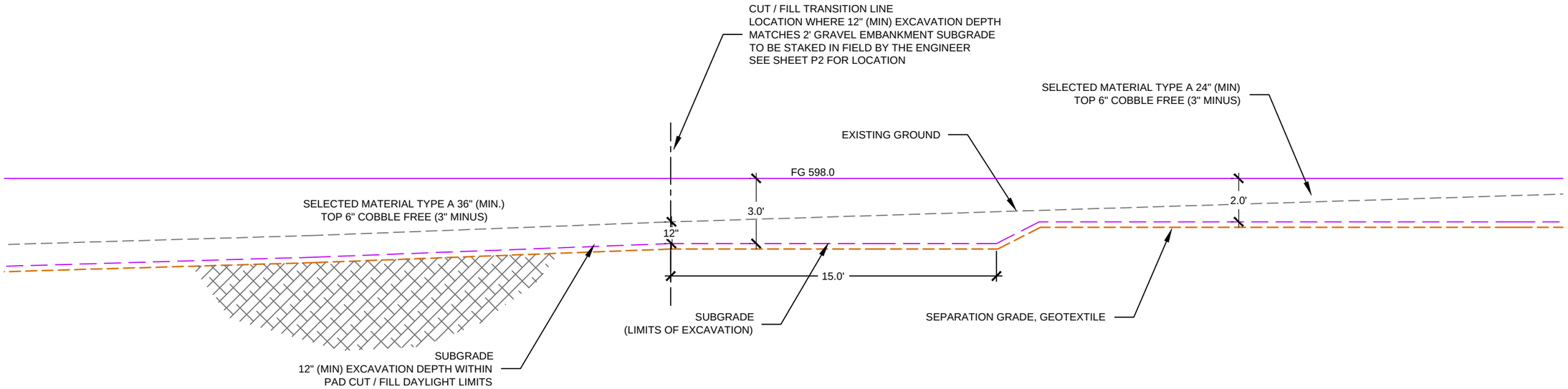
HORZ. SCALE: AS SHOWN
VERT. SCALE: N/A

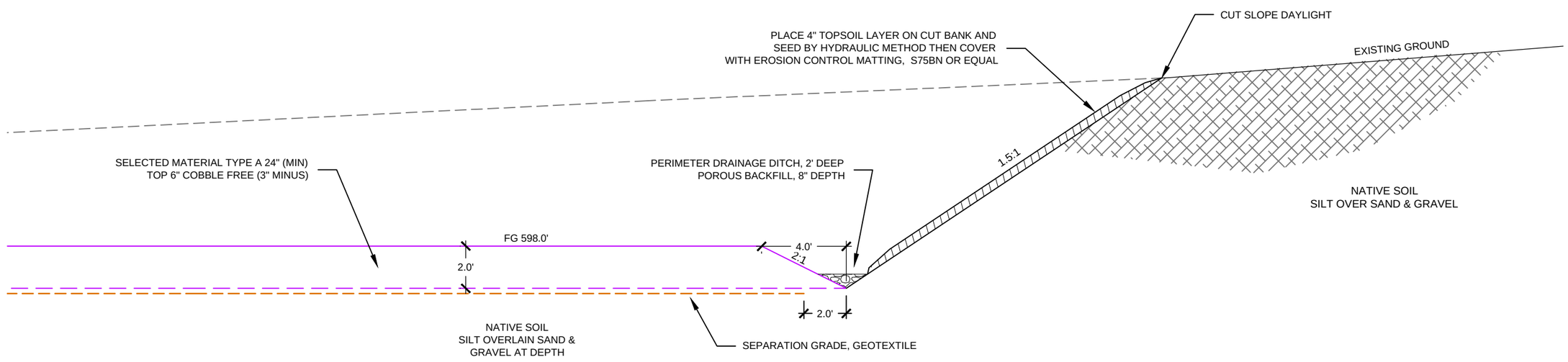
Figure 5



A
D3

PAD CUT / FILL TRANSITION

SCALE: 1" = 5'



B
D3

PAD CUT SECTION

SCALE: 1" = 5'

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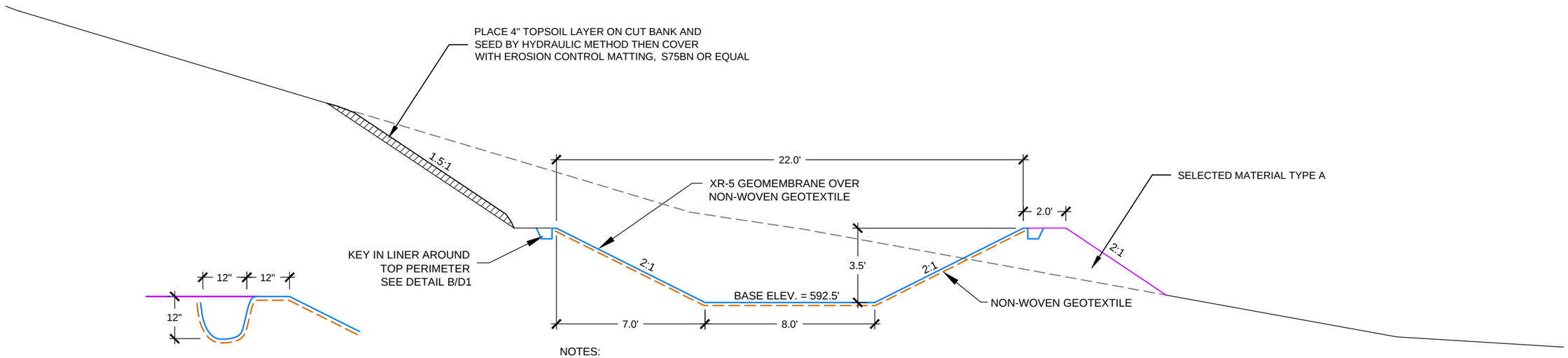
HORZ. SCALE: AS SHOWN
VERT. SCALE: N/A

Figure 6



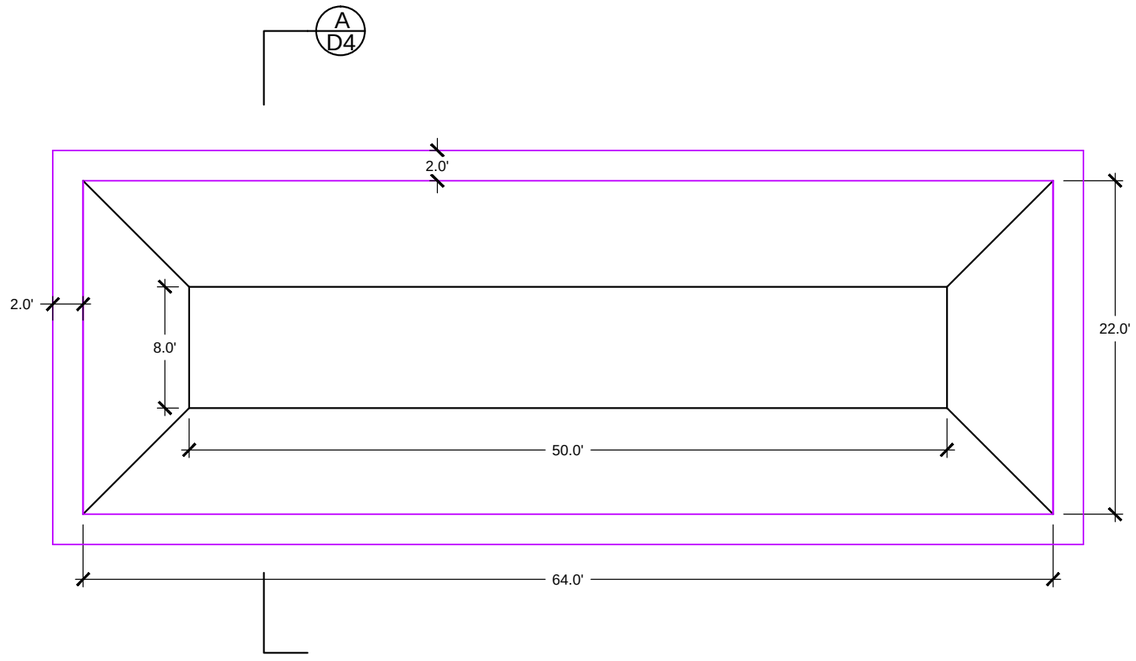
B/D4 KEY-IN DETAIL

SCALE: N/A

NOTES:
1. ALL EXCAVATION SHALL BE OFF PAD NEAR SE CORNER..
2. CONTAINMENT BERM SHALL BE BUCKET PACKED FOR COMPACTION.
3. REMOVE COBBLES. LINE BASIN EXCAVATION WITH 4" SAND LAYER.
4. LINE BASIN WITH GEOTEXTILE, NW601 OR EQUAL, AND WITH GEOMEMBRANE, SEAMANS XR-5.
5. KEY GEOMEMBRANE AROUND TOP PERIMETER AT FINISHED PAD GRADE ELEVATION.
6. PROVIDE INLET AT EACH END. DEPRESS LINER KEY 12".
7. GROSS CAPACITY IS 490 BARRELS (FULL TO PAD GRAD).

A/D4 TYPICAL DRAINAGE RETENTION BASIN SECTION

SCALE: 1" = 5'



C/D4 TYPICAL DRAINAGE RETENTION BASIN PLAN

SCALE: 1" = 10'

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49TH
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CE - 7963
PROFESSIONAL ENGINEER
6/17/14

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HILCORP ALASKA LLC
C PAD
DETAILS & TYPICAL SECTIONS

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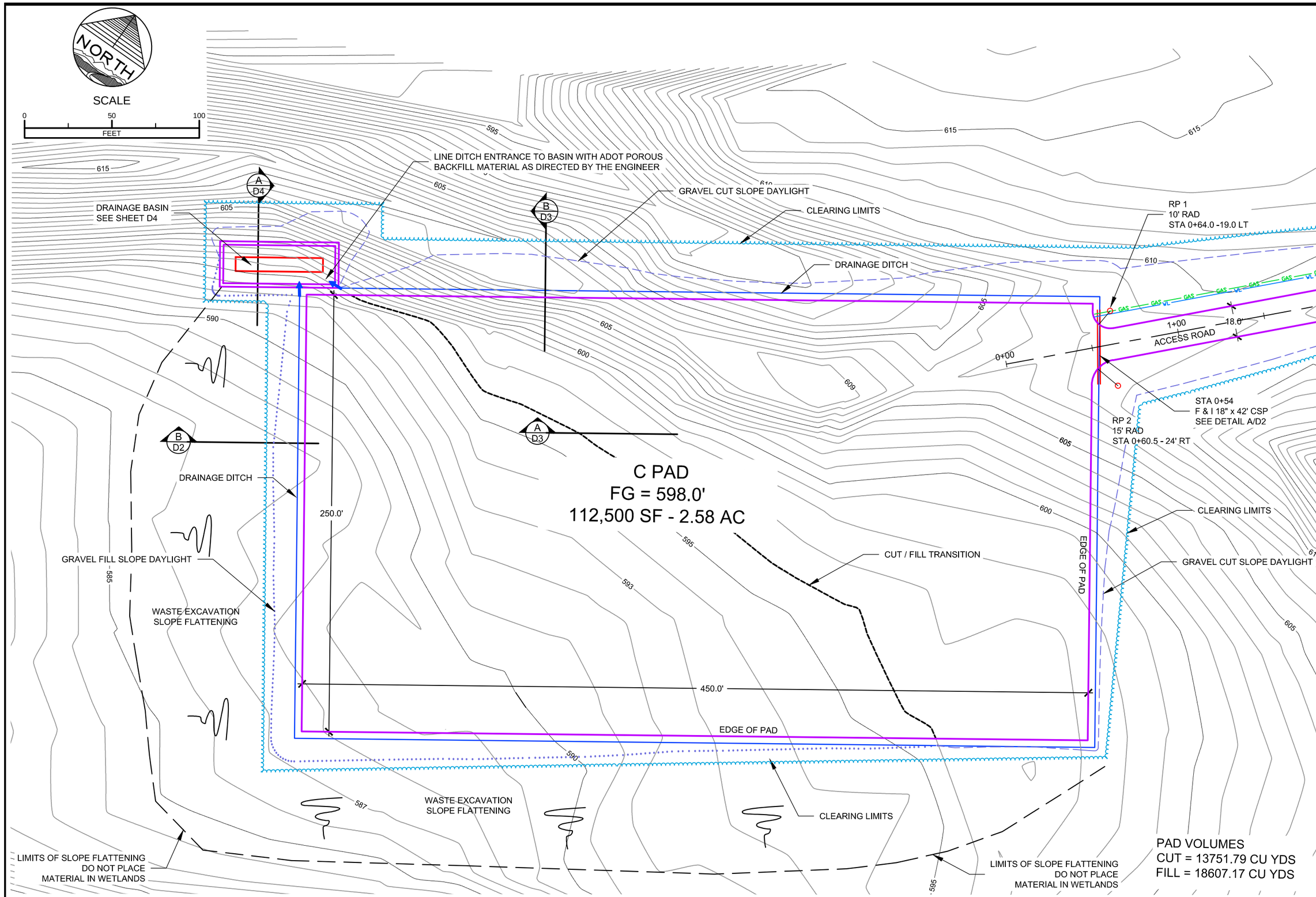
HORZ. SCALE: AS SHOWN
VERT. SCALE: N/A

Figure 7



STATE OF ALASKA
49TH
STAN A. McLANE
CE - 7983
REGISTERED PROFESSIONAL ENGINEER
6/27/14

REV	DATE	DESCRIPTION	BY
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C PAD ACCESS ROAD PLAN & PROFILE

JOB NO. 133090

FIELD BOOK NO. 13-20 & 13-22

FIELD WORK DATE: NOV 2013

Hilcorp Alaska, LLC

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HORZ. SCALE: 1" = 50'

VERT. SCALE: N/A

Figure 8

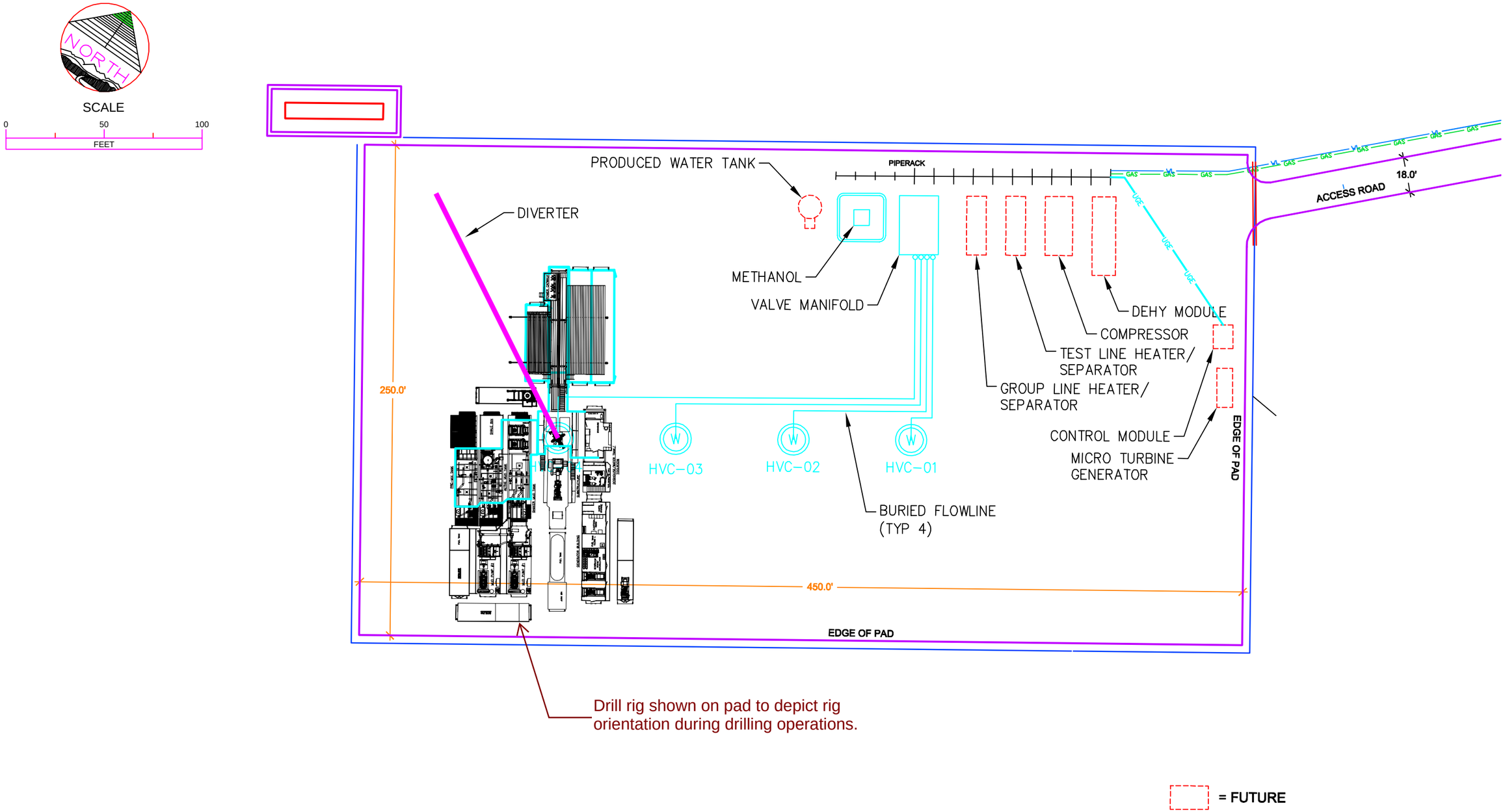


Figure 9

DWG. NUMBER	SHT	REFERENCE DRAWINGS

NOTES:

REV	DATE	REVISED	REV. BY	CKD. BY	APP'D BY
A	08/28/2014	ISSUED FOR PLAN OF OPERATIONS SUBMITTAL	JAG	NA	NA

ENGINEERING APPROVAL
DRAWN BY
CHD BY
PROJECT
STRUCTURAL
MECHANICAL
ELECTRICAL
INSTRUMENT
SCALE
DATE

CONTRACTOR

JOB NUMBER

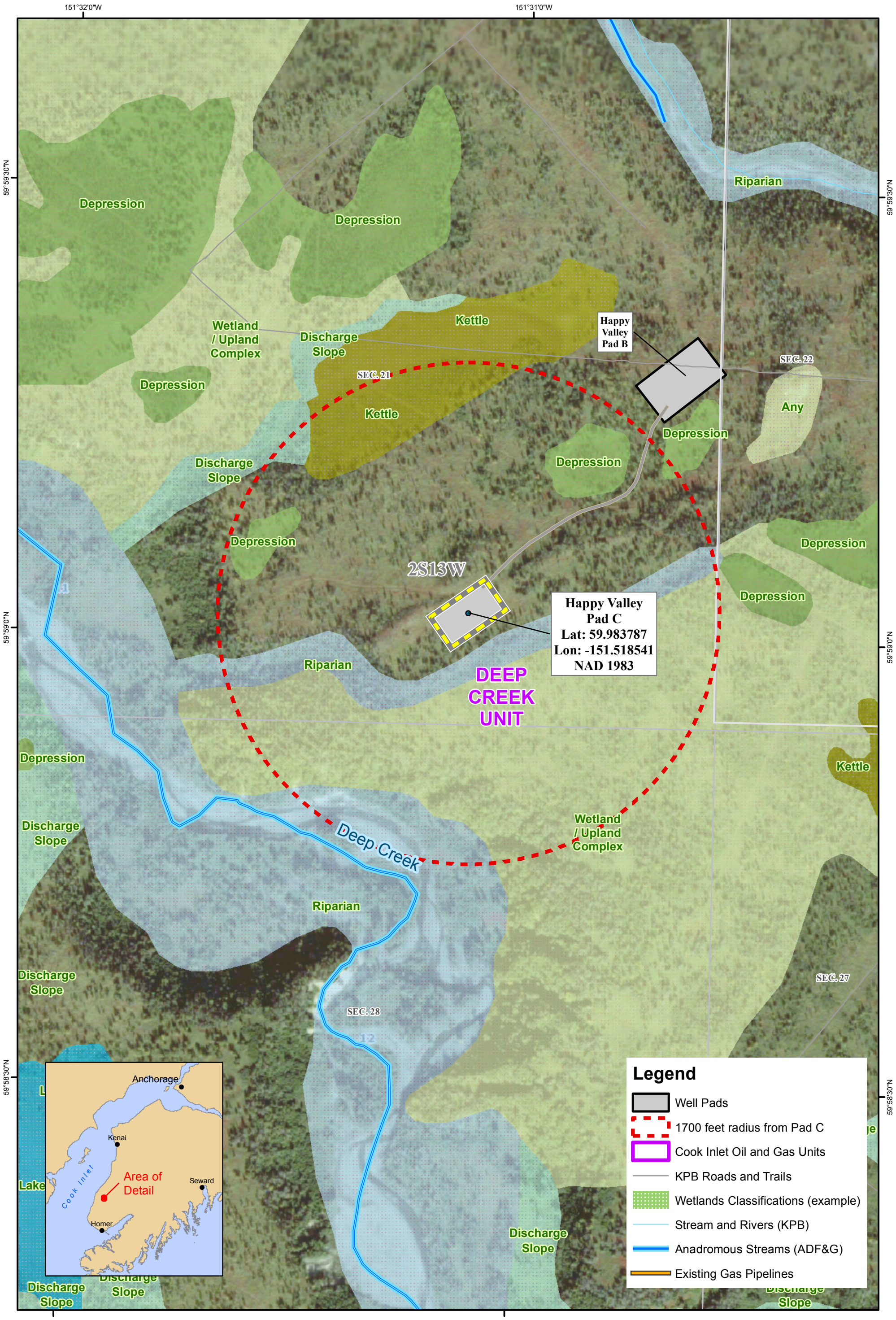
HAPPY VALLEY C PAD

HAPPY VALLEY ALASKA

HAPPY VALLEY C PAD
PLOT PLAN
(PROPOSED)

HILCORP ALASKA, LLC

DRAWING NO.	SHT NO.	REV. NO.
Y-CC-0201	001	A



Hilcorp Alaska, LLC

Map Date: 7/10/2014

Happy Valley Pad C
Streams/Rivers/Wetlands

Figure 10