

WILLIAMSPORT-PILE BAY ROAD SPOT REPAIR
STP-0001(349) / 51651

DESCRIPTION OF WORK: This federally funded project will consist of drainage repairs, culvert installation and replacement, erosion protection, 12" grade raise, roadway widening with turnouts, ditching, and signing along the Williamsport-Pile Bay Road from MP 3 to MP 9. Work will also include re-decking of the Four Mile Creek and Timberline Creek bridges.

The existing bridges within the project limits at Four Mile Creek (MP 4.15) and at Timberline Creek (MP 7.64) are currently rated for 3 ton live loads, and will not be strong enough to support heavy construction equipment. Fords exist adjacent to the bridges at each stream crossing; however, the Contractor **may not** run construction equipment through these fords without securing all necessary permits from the relevant resource agencies and permission from the landowners. The Contractor will need to confirm the load ratings of any other bridges used during the course of the project.

No material sites will be provided for this project. All material sources will be the responsibility of the Contractor.

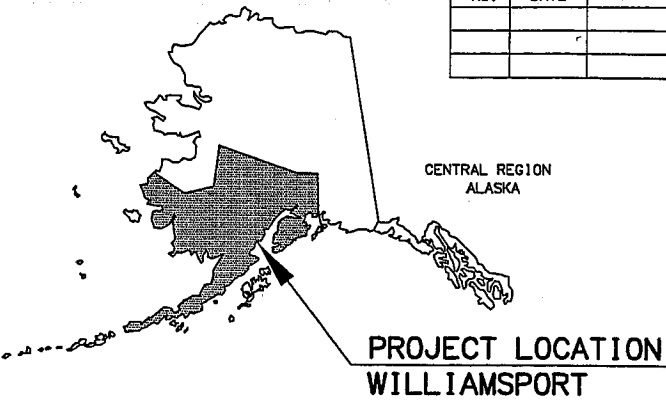
The Williamsport – Pile Bay road is not maintained year round and is used only during summer (snowfree) months. Contract road maintenance is performed by Ray Williams (Anchor Point (winter) 907-235-8360, Pile Bay (summer) 907-571-1596).

Barge access to Williamsport is dependent on high tides for adequate water depth. This may restrict shipping to the highest tides each month and will require a landing craft or barge with a shallow draft. Also there is limited public access and storage at the Williamsport barge landing.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

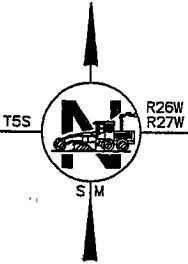
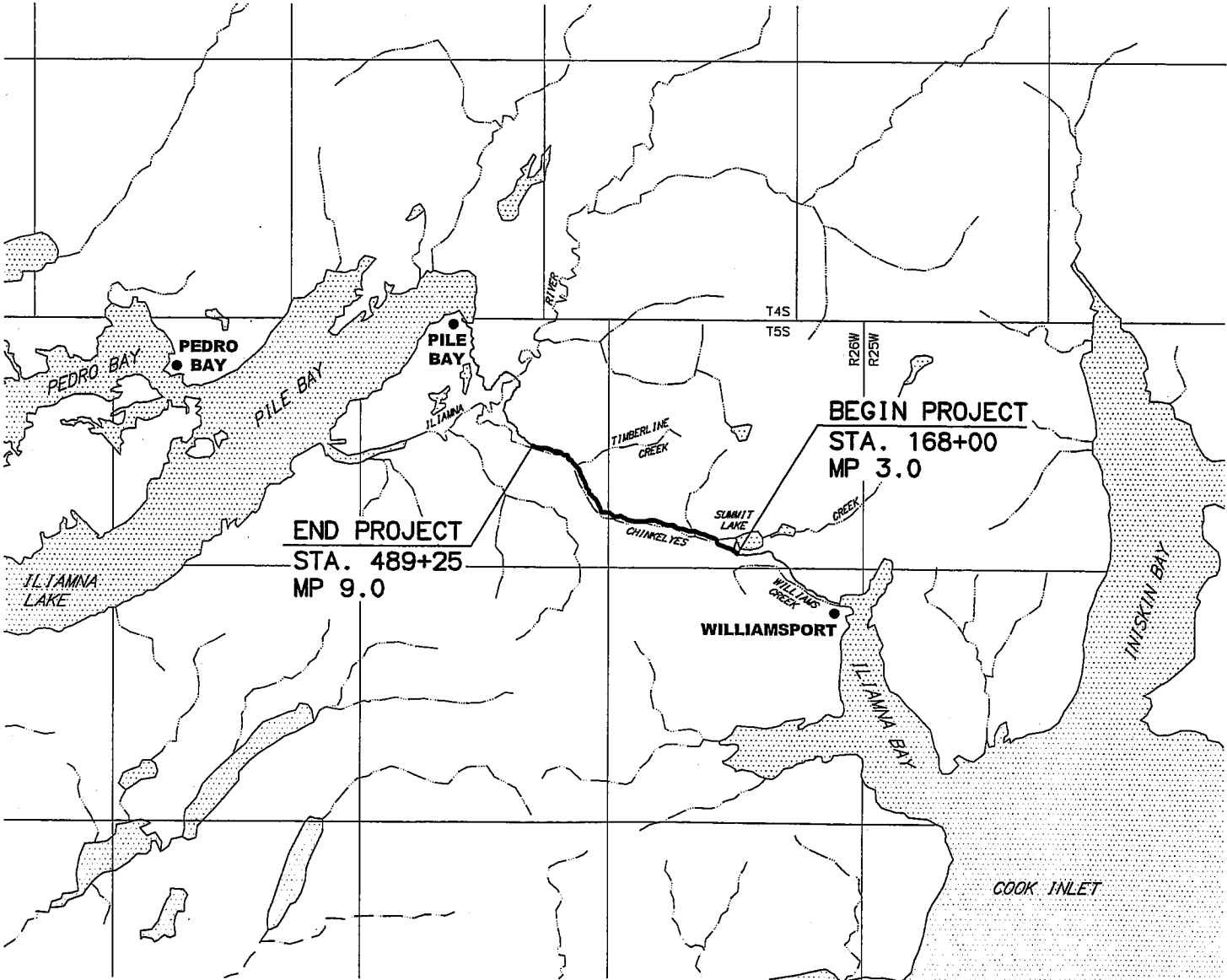
PROPOSED HIGHWAY PROJECT
WILLIAMSPORT-PILE BAY ROAD
SPOT REPAIR
STP-0001(349)/51651
GRADING AND DRAINAGE

REVISIONS			YEAR	STATE	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			2007	ALASKA	STP-0001(349)/51651	A1	47
			ROUTE: 074000		MILEPOINT 3.0 TO 9.0		



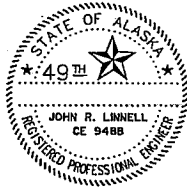
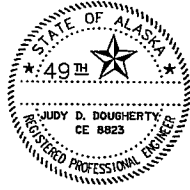
INDEX	
SHEET NO.	DESCRIPTION
A1 - A3	TITLE, LEGEND, LANDMARKS
B1 - B3	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES
D1 - D8	SUMMARIES
E1 - E16	DETAILS
H1 - H4	TRAFFIC SIGNING
J1 - J2	TRAFFIC CONTROL SHEETS
Q1 - Q6	EROSION AND SEDIMENT CONTROL
N1 - N4	BRIDGE STRUCTURES

DESIGN DESIGNATION	
ROUTE:	115952
A.D.T. 2004	ASSUME <50
V. (MPH)	ASSUME 25



PRELIMINARY PLAN
CENTRAL DISTRICT
DATE 8-16-07

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES



APPROVED:
REGIONAL PRE-CONSTRUCTION ENGINEER DATE
CONCUR:
DIRECTOR, CONSTRUCTION & OPERATIONS DATE
CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD CONDITION:
CONSTRUCTION PROJECT MANAGER DATE

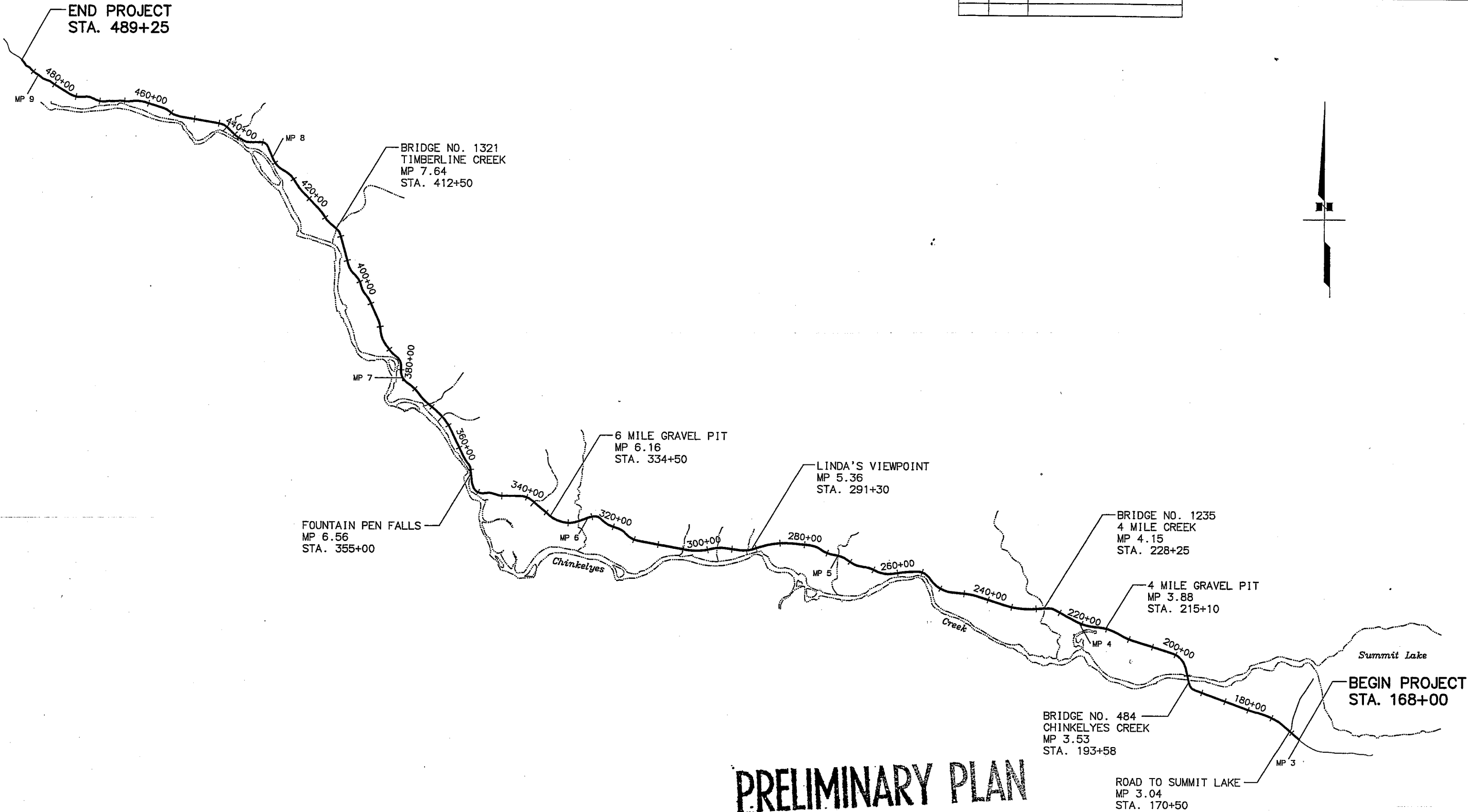
THE FOLLOWING STANDARD
DRAWINGS APPLY TO THIS
PROJECT:
C-04.12
D-01.02, D-04.21, D-07.00, D-14.10,
D-30.01*
S-00.10, S-05.01, S-30.03

* AS MODIFIED HEREIN

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DRAFTED BY: [blank]
XREFS: NONE

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION					
			ALASKA	STP-0001(349)/51651	2007	A3	A3

DESIGNED BY	VS
CHECKED BY	
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NOTE: ALL PITS NOTED ARE PRIVATELY OWNED SOURCES. CONTRACTOR MUST NEGOTIATE ROYALTY USE WITH OWNER(S). AK DOT&PF DOES NOT WARRANT AVAILABILITY/QUANTITY/QUALITY OF SOURCES NOTED.

PRELIMINARY PLAN
CENTRAL DISTRICT
DATE 8-16-07



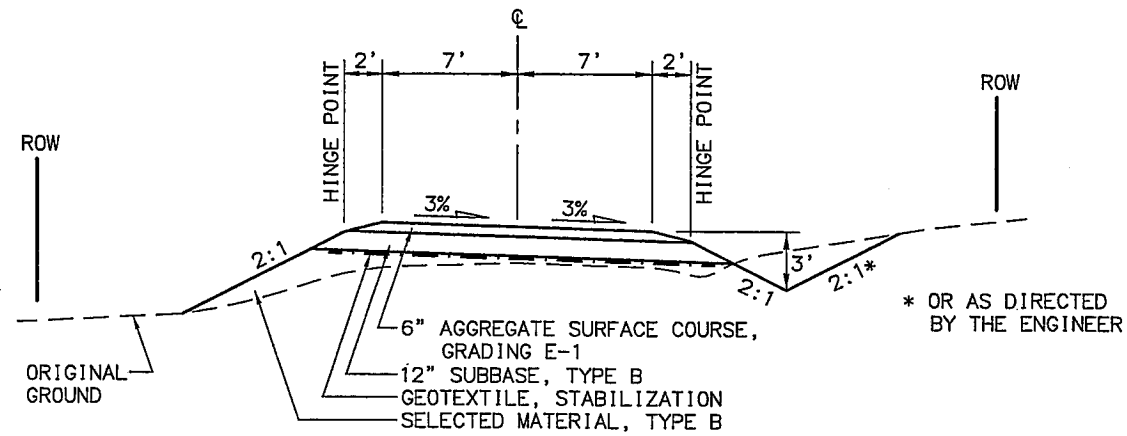
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
**WILLIAMSPORT-PILE BAY ROAD
SPOT REPAIR**

LANDMARK LOCATIONS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	STP-0001(349)/51651	2007	B1	B3

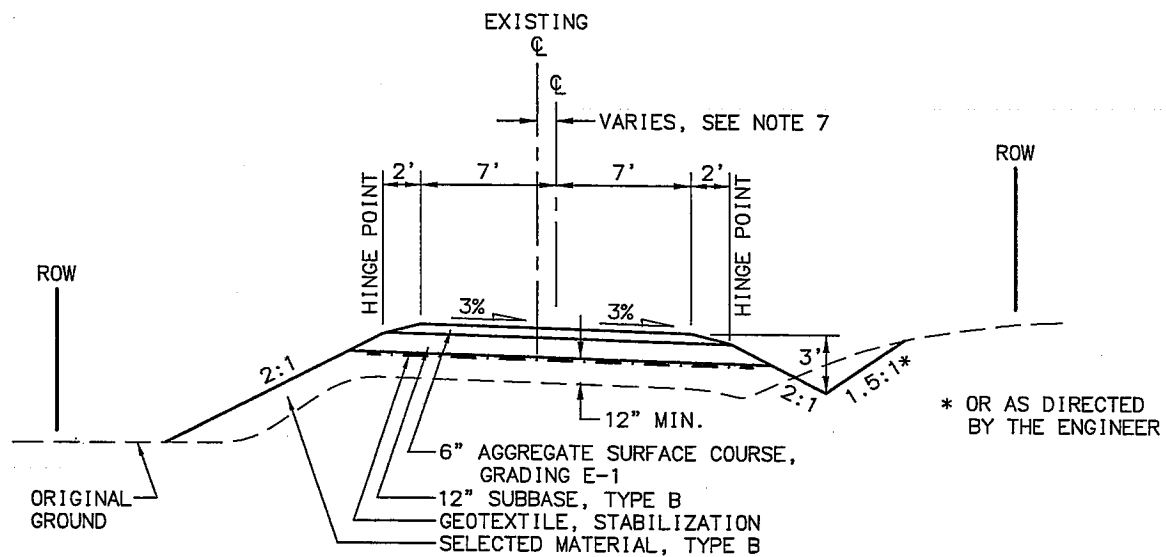
GENERAL NOTES:

1. THE STATIONING FOR THIS PROJECT IS BASED ON GPS TRACKING AND IS APPROXIMATE. STATIONING IS INTENDED ONLY TO PROVIDE GENERAL GUIDANCE FOR LOCATING PROJECT FEATURES. SPECIFIC INSTALLATIONS WILL REQUIRE FIELD ADJUSTMENT.
2. THE HORIZONTAL ALIGNMENT IS THE APPROXIMATE CENTERLINE OF THE EXISTING ROAD OR AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR SHALL PLACE SEEDING ON ALL NEW CUT AND FILL SLOPES AND AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, OR AS DIRECTED BY THE ENGINEER.
4. ALL CONSTRUCTION ACTIVITIES SHALL BE DONE WITHIN THE RIGHT-OF-WAY LIMITS. RIGHT OF WAY IS 50' FROM CENTER OF THE EXISTING ROADWAY.
5. CLEARING AND GRUBBING SHALL OCCUR WHEREVER THERE IS EARTH WORK OR AS DIRECTED BY THE ENGINEER. THE CLEARING AND GRUBBING LIMIT SHALL EXTEND 10 FEET BEYOND FILL OR CUT SLOPE OR TO THE ROW, WHICHEVER IS LESS.
6. IN WETLAND AREAS, NO CLEARING, GRUBBING OR SOIL DISTURBANCE IS AUTHORIZED BEYOND THE SLOPE LIMITS UNLESS OTHERWISE SHOWN ON THE PLANS.
7. SHIFT ROAD CENTERLINE AS DIRECTED BY THE ENGINEER TO AVOID PLACING FILL INTO WETLANDS.
8. END STABILIZATION GEOTEXTILE 1' FROM FACE OF EMBANKMENT.
9. FOR ALL HEADWALLS, USE CLASS A CONCRETE.



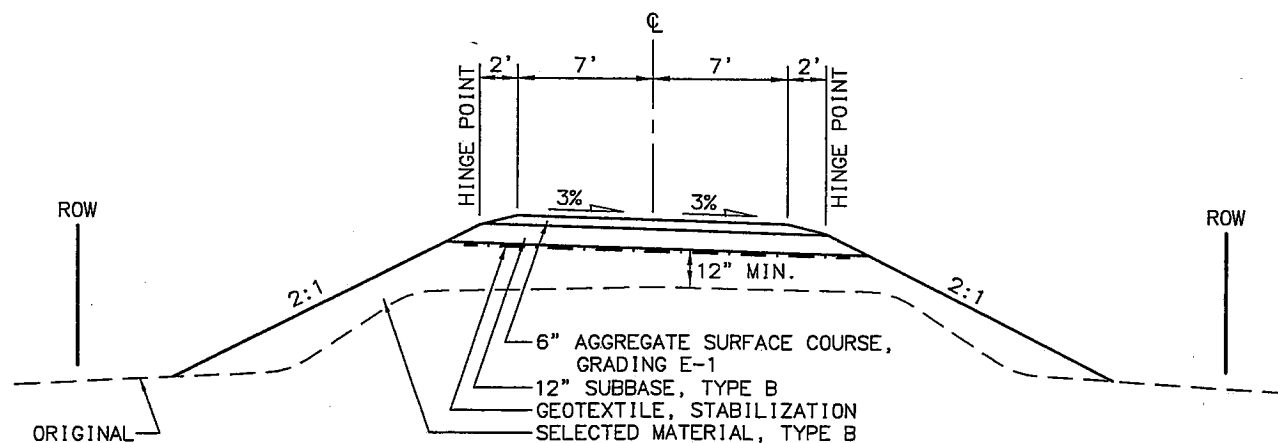
WILLIAMSPORT-PILE BAY ROAD

STA. 168+00 TO STA. 489+25



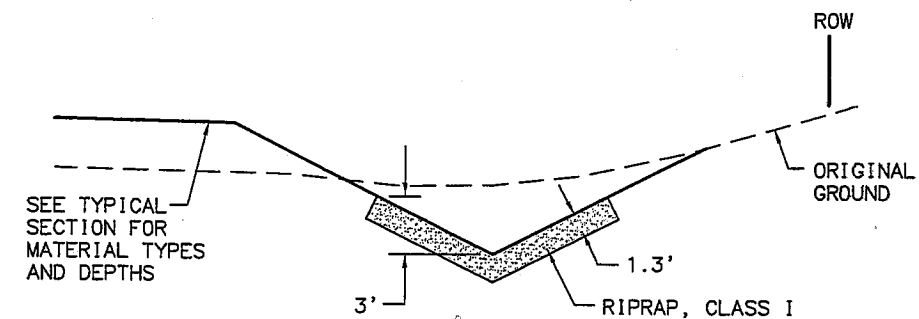
GRADE RAISE

STA. 297+50 TO STA. 298+50
STA. 455+25 TO STA. 457+25
STA. 463+00 TO STA. 464+00



GRADE RAISE

STA. 448+00 TO STA. 452+00



DITCH LINING

NOTE: INSTALL DITCH LINING WHERE DITCH GRADE EXCEEDS 5%.

PRELIMINARY PLAN

CENTRAL DISTRICT
DATE 8-16-07

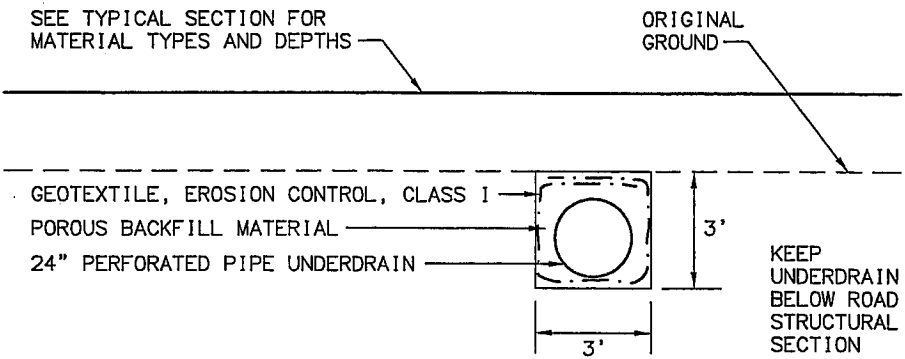


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
WILLIAMSPORT-PILE BAY ROAD
SPOT REPAIR

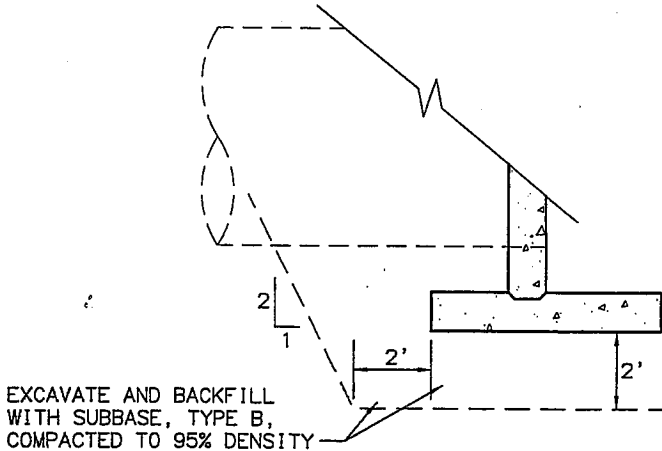
TYPICAL SECTIONS

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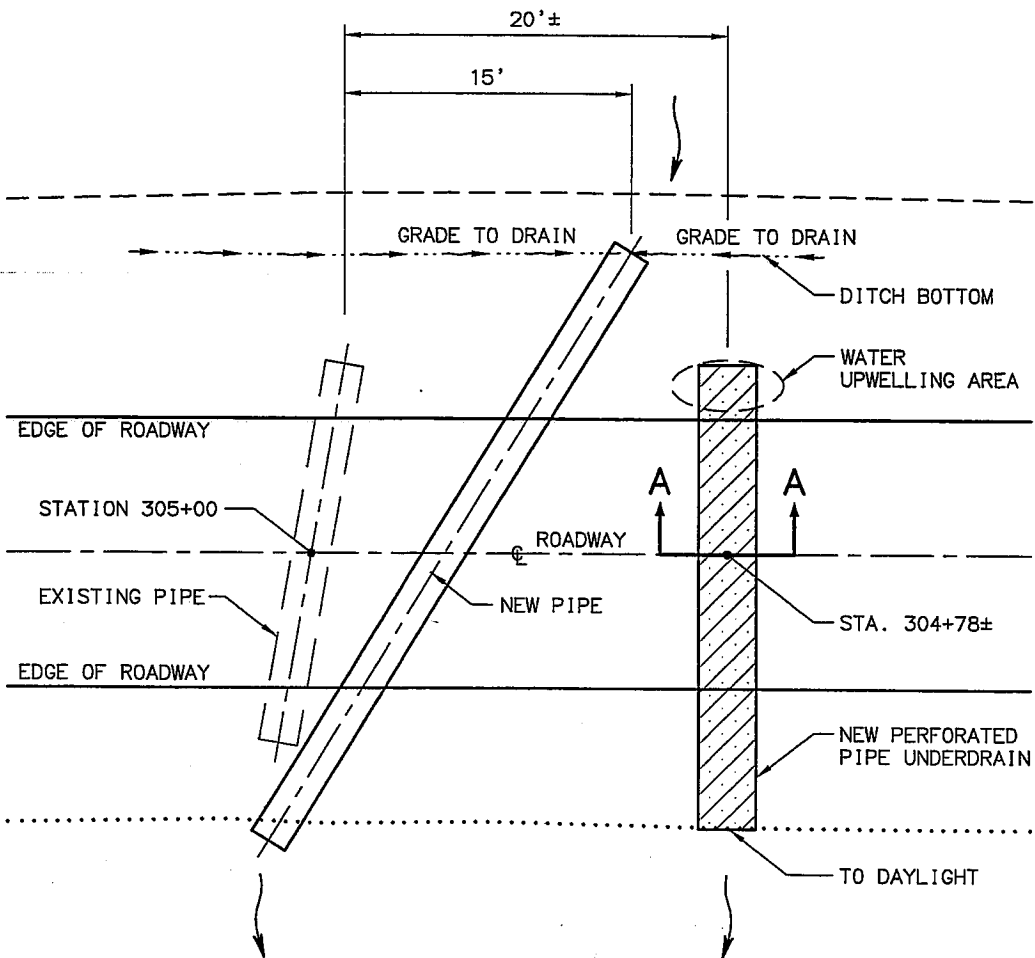
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No.	DATE	DESCRIPTION	ALASKA	STP-0001(349)/51651	2007	B3	B3



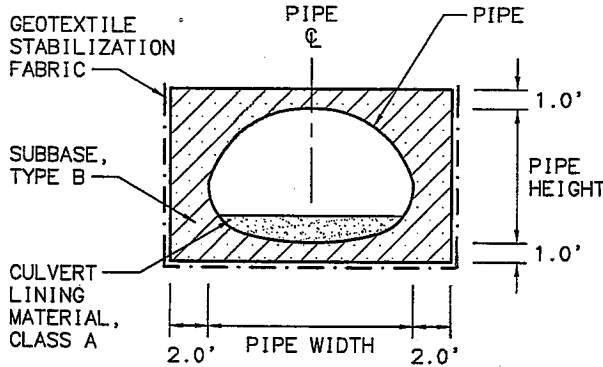
**PERFORATED PIPE UNDERDRAIN
SECTION A-A**
STA. 304+78±



**HEADWALL EXCAVATION
AND BACKFILL**



PERFORATED PIPE UNDERDRAIN
STA. 304+78



CULVERT DETAIL

LIMITS FOR CULVERT BEDDING AND CULVERT LINING MATERIAL, CLASS A
INSTALL CULVERT LINING MATERIAL, CLASS A AS SHOWN IN PIPE INSTALLATION DETAILS
WRAP GEOTEXTILE STABILIZATION FABRIC UP SIDES TO TOP OF CULVERT BEDDING MATERIAL.

PRELIMINARY PLAN

**CENTRAL DISTRICT
DATE 8-16-07**



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

WILLIAMSPORT-PILE BAY ROAD
SPOT REPAIR

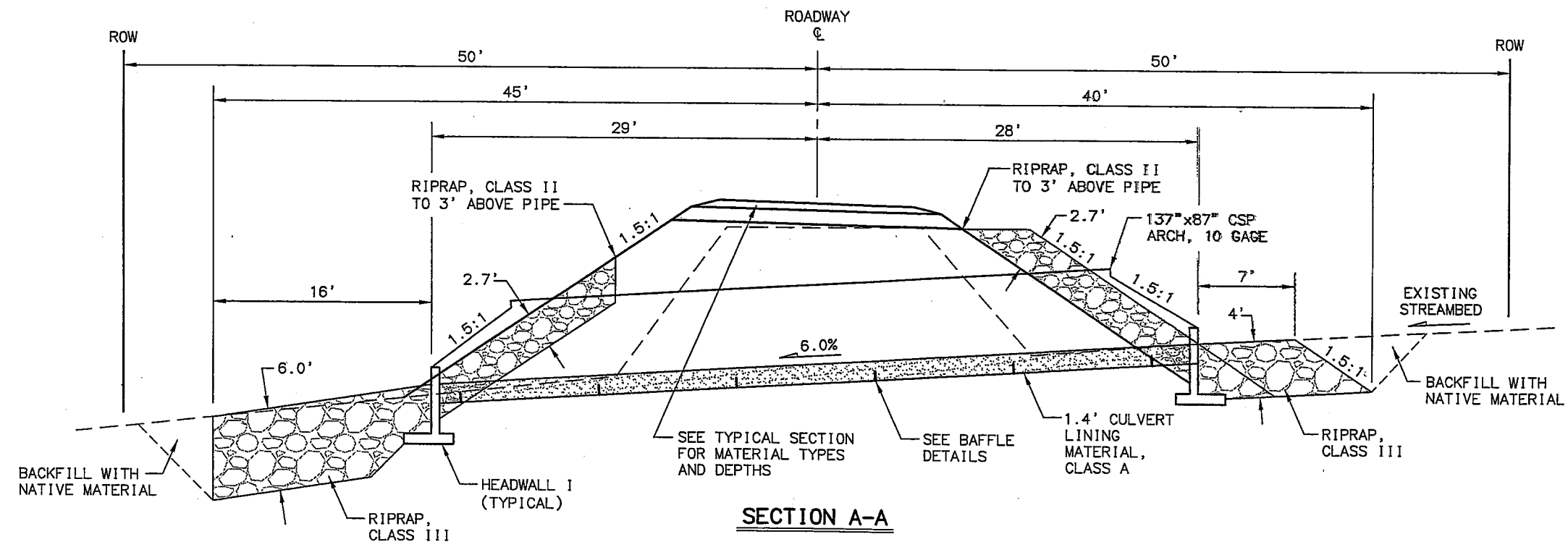
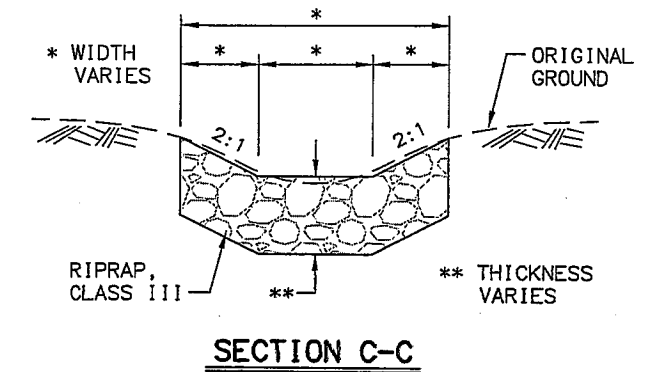
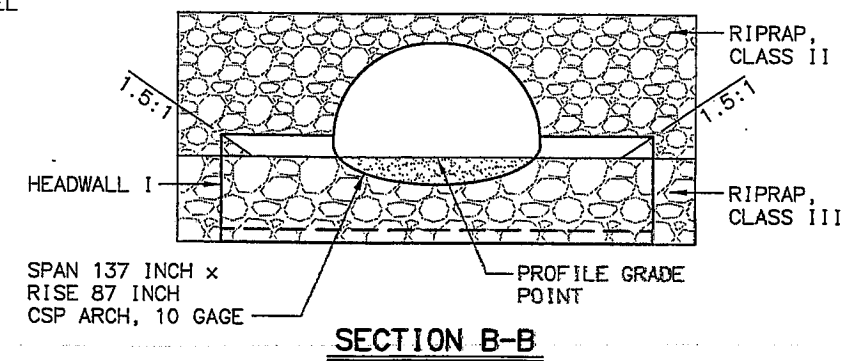
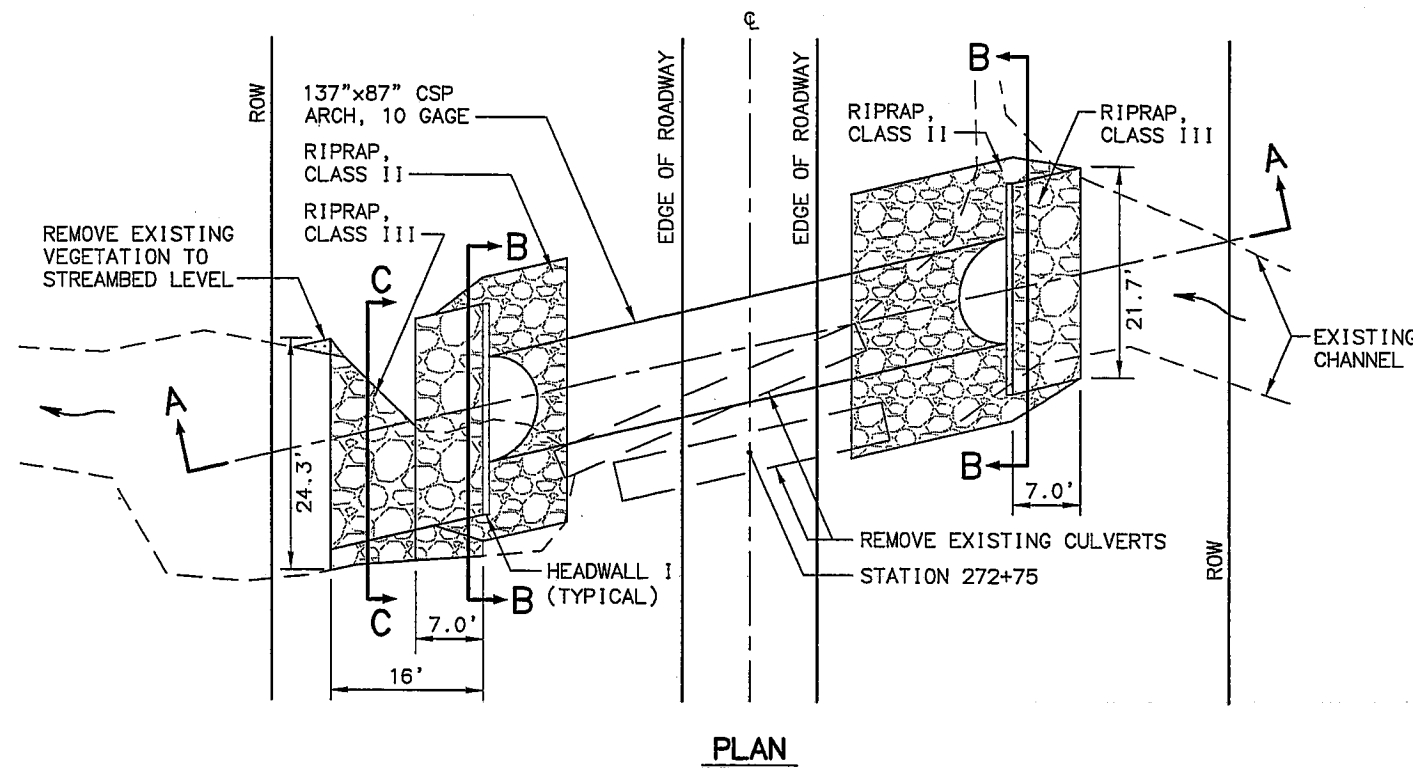
TYPICAL SECTIONS

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REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	STP-0001(349)/51651	2007	E2	E16

NOTES:

1. PLACE THE INLET INVERT 1.4' BELOW THE STREAMBED.
2. WRAP THE EMBANKMENT RIPRAP AROUND ENDS OF HEADWALL USING 2:1 SLOPE TOWARDS THE PIPE TO PREVENT HEADWALL FLANKING.



HYDROLOGIC AND HYDRAULIC SUMMARY			
DRAINAGE AREA = 1.1 SQUARE MILES			
EXCEEDANCE PROBABILITY	2%	1%	REGULATORY FLOOD
RETURN PERIOD	50 YEAR (Q ₅₀)	100 YEAR (Q ₁₀₀)	N/A
DESIGN DISCHARGE	235 C.F.S.	290 C.F.S.	N/A
DESIGN HIGH WATER ELEVATION	5.6 FEET ABOVE CULVERT INLET INVERT	6.1 FEET ABOVE CULVERT INLET INVERT	N/A
ANTICIPATED ADDITIONAL BACKWATER AT (Q ₁₀₀) = 0.0 FEET			

PRELIMINARY PLAN

CENTRAL DISTRICT

DATE _____

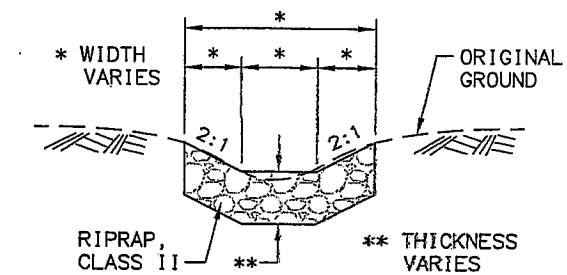
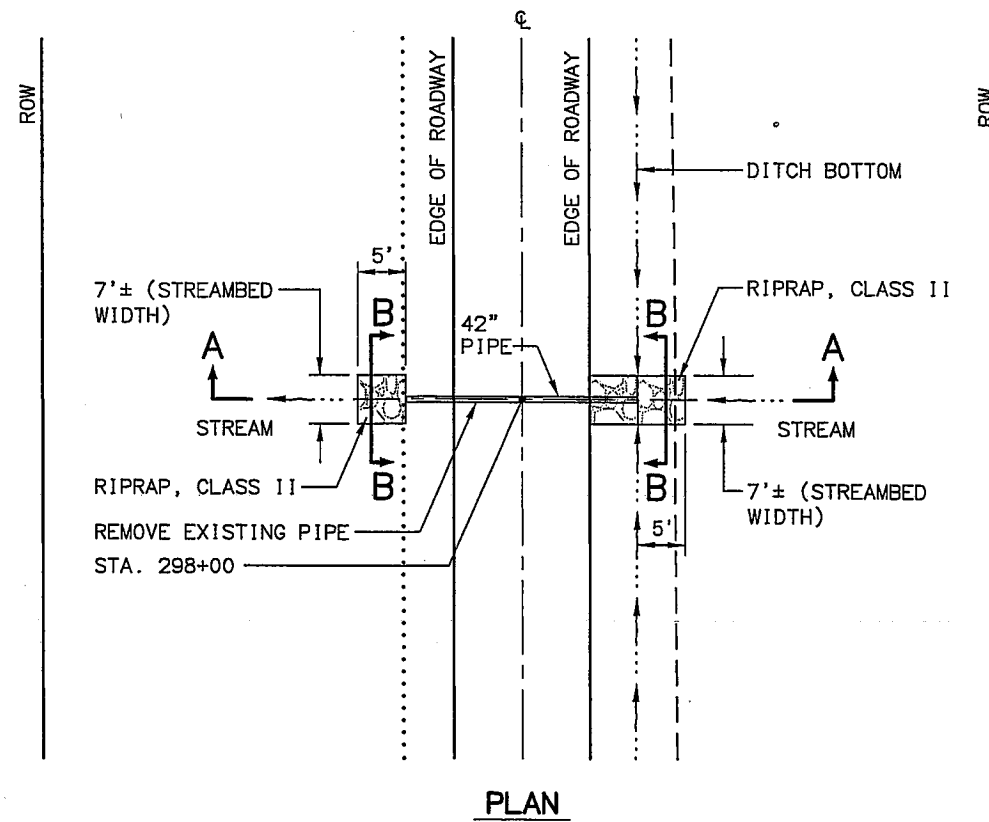


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
WILLIAMSPORT-PILE BAY ROAD
SPOT REPAIR
PIPE INSTALLATION DETAIL
MP 5.0
STATION 272+75

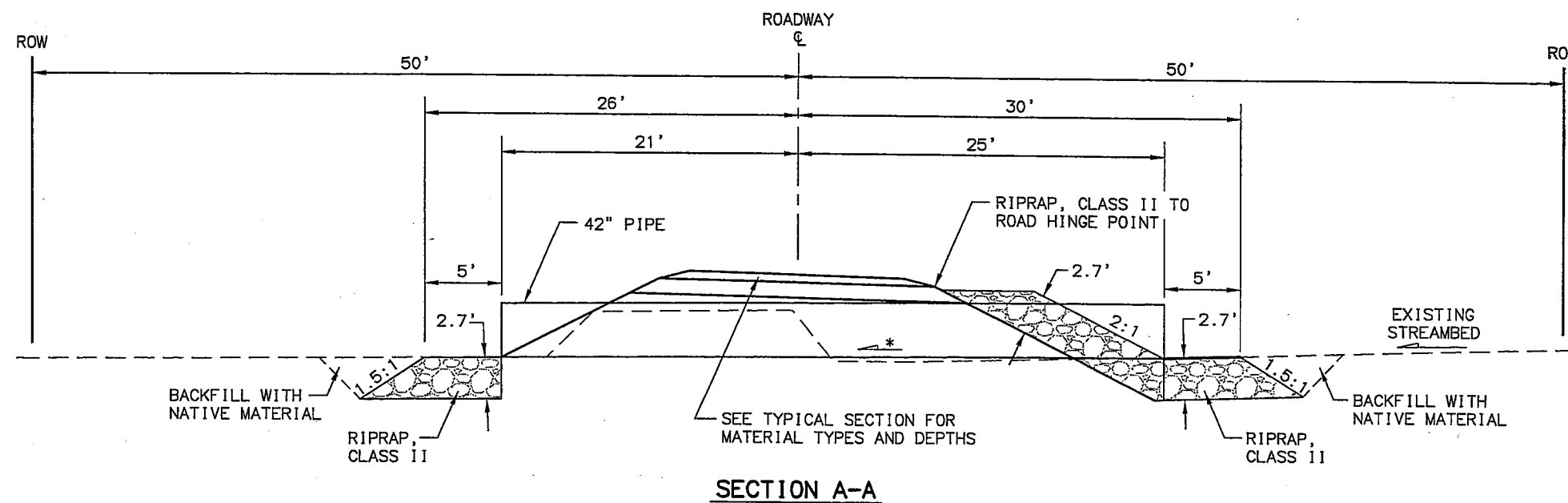
REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	STP-0001(349)/51651	2007	E4	E16

NOTE:

1. ROAD SHIFTED RIGHT.



SECTION B-B



PRELIMINARY PLAN

CENTRAL DISTRICT
DATE 8-16-07

*MATCH EXISTING
STREAM



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

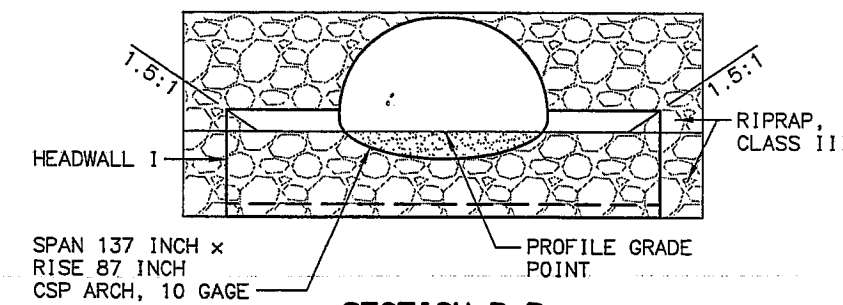
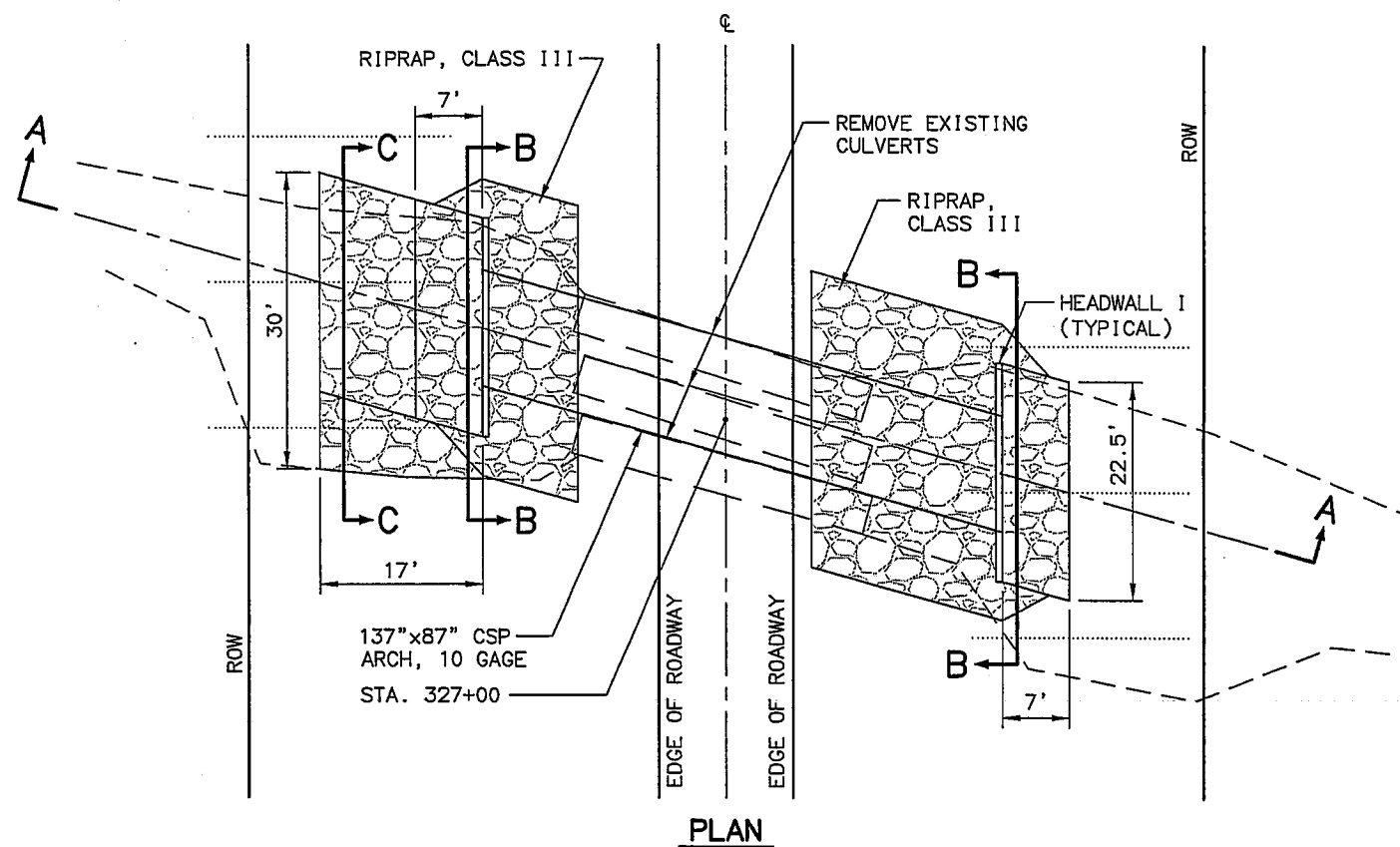
WILLIAMSPORT-PILE BAY ROAD
SPOT REPAIR

PIPE INSTALLATION DETAIL
MP 5.49
STATION 298+00

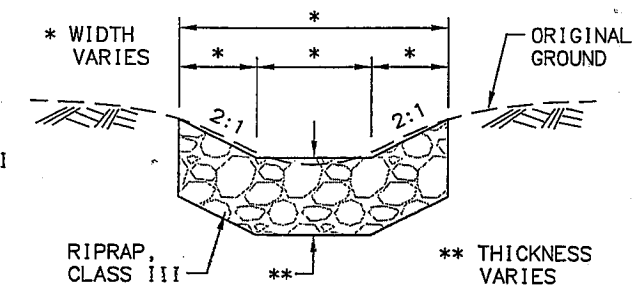
REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	STP-0001(349)/51651	2007	E5	E16

NOTES:

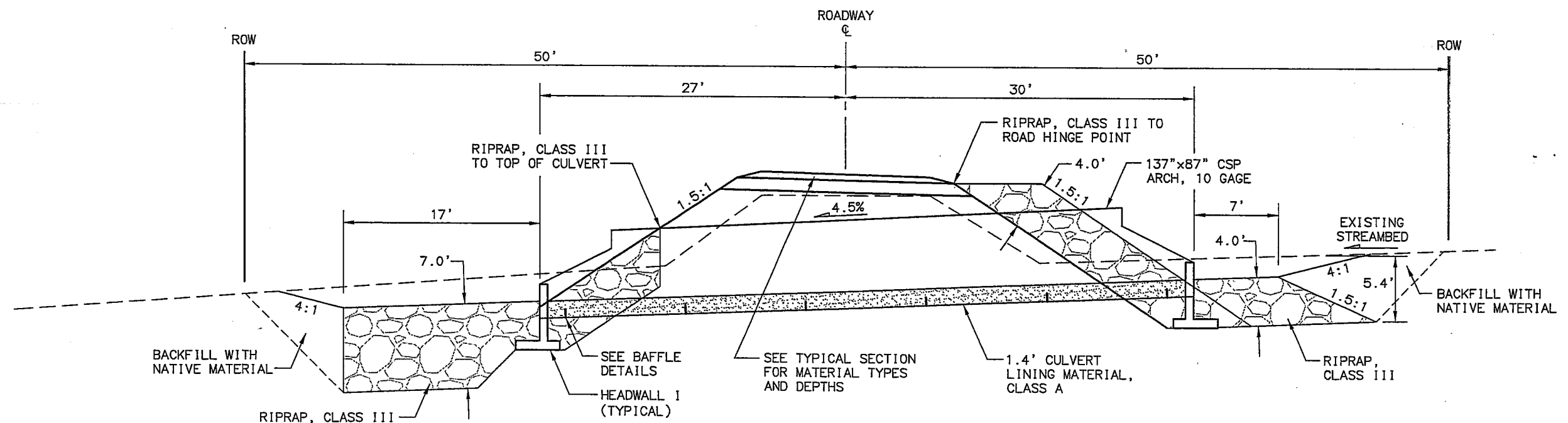
1. PLACE THE INLET INVERT 3.2' BELOW THE EXISTING LEFT (LOOKING DOWNSTREAM) CULVERT INLET INVERT.
2. WRAP THE EMBANKMENT RIPRAP AROUND ENDS OF HEADWALL USING 2:1 SLOPE TOWARDS THE PIPE TO PREVENT HEADWALL FLANKING.



SECTION B-B



SECTION C-C



SECTION A-A

HYDROLOGIC AND HYDRAULIC SUMMARY			
DRAINAGE AREA = 1.4 SQUARE MILES			
EXCEEDANCE PROBABILITY	2%	1%	REGULATORY FLOOD
RETURN PERIOD	50 YEAR (Q ₅₀)	100 YEAR (Q ₁₀₀)	N/A
DESIGN DISCHARGE	305 C.F.S.	376 C.F.S.	N/A
DESIGN HIGH WATER ELEVATION	6.3 FEET ABOVE CULVERT INLET INVERT	7.0 FEET ABOVE CULVERT INLET INVERT	N/A
ANTICIPATED ADDITIONAL BACKWATER AT (Q ₁₀₀) = 0.0 FEET			

PRELIMINARY PLAN

CENTRAL DISTRICT
DATE 8-16-07



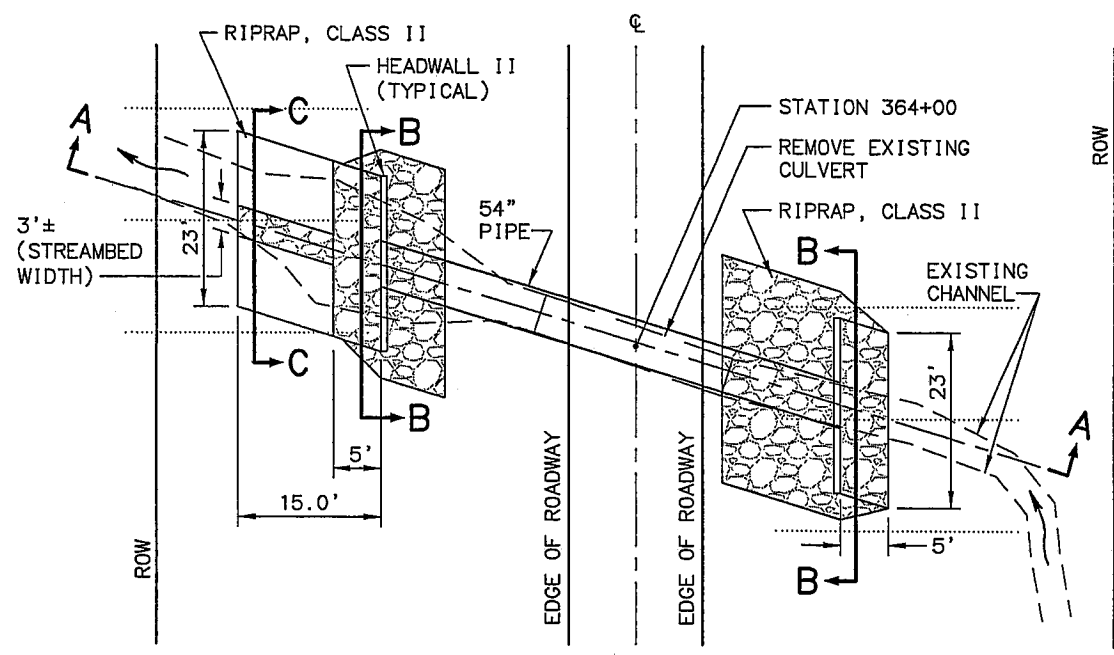
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

WILLIAMSPORT-PILE BAY ROAD
SPOT REPAIR

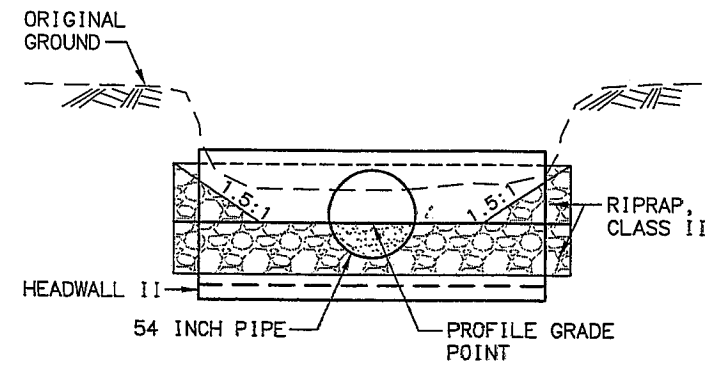
PIPE INSTALLATION DETAIL
MP 6.02
STATION 327+00

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	STP-0001(349)/51651	2007	E7	E16

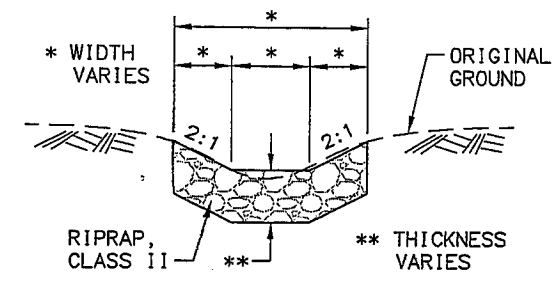
- NOTES:**
1. PLACE THE INLET INVERT 3.3' BELOW THE INLET INVERT OF THE EXISTING CULVERT.
 2. WRAP THE EMBANKMENT RIPRAP AROUND ENDS OF HEADWALL USING 2:1 SLOPE TOWARDS THE PIPE TO PREVENT HEADWALL FLANKING.



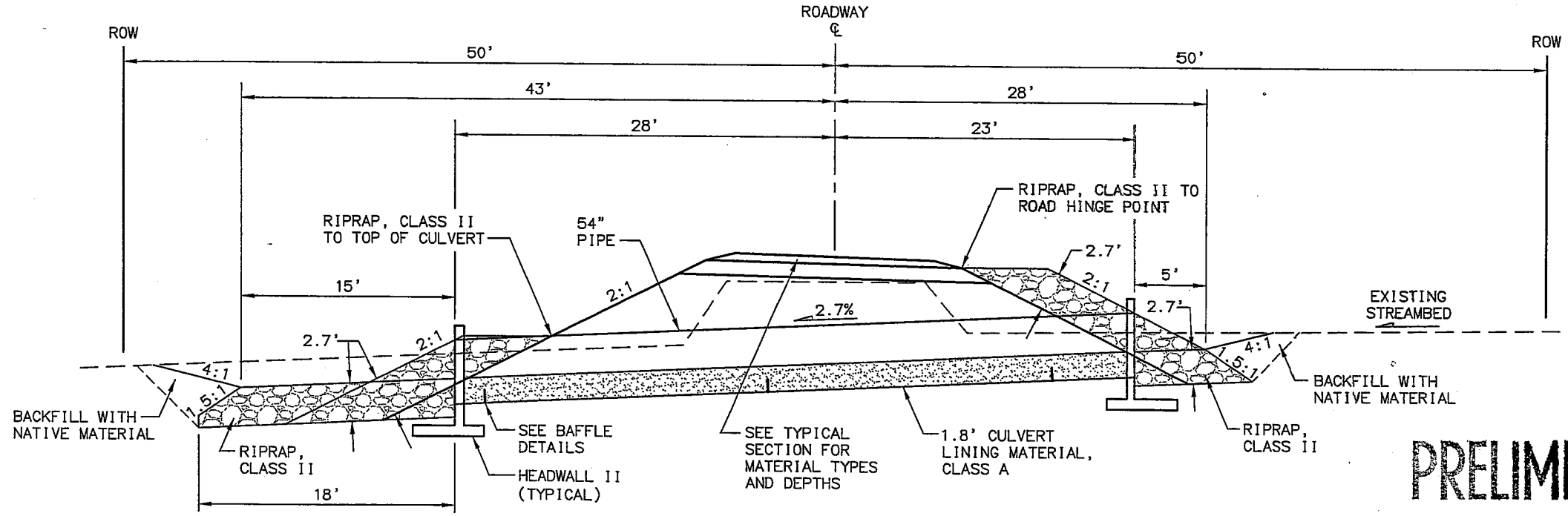
PLAN



SECTION B-B



SECTION C-C



SECTION A-A

PRELIMINARY PLAN

CENTRAL DISTRICT
DATE 8-16-07

HYDROLOGIC AND HYDRAULIC SUMMARY			
DRAINAGE AREA = 0.3 SQUARE MILES			
EXCEEDANCE PROBABILITY	2%	1%	REGULATORY FLOOD
RETURN PERIOD	50 YEAR (Q ₅₀)	100 YEAR (Q ₁₀₀)	N/A
DESIGN DISCHARGE	53 C.F.S.	66 C.F.S.	N/A
DESIGN HIGH WATER ELEVATION	4.9 FEET ABOVE CULVERT INLET INVERT	5.3 FEET ABOVE CULVERT INLET INVERT	N/A
ANTICIPATED ADDITIONAL BACKWATER AT (Q ₁₀₀) = 0.0 FEET			



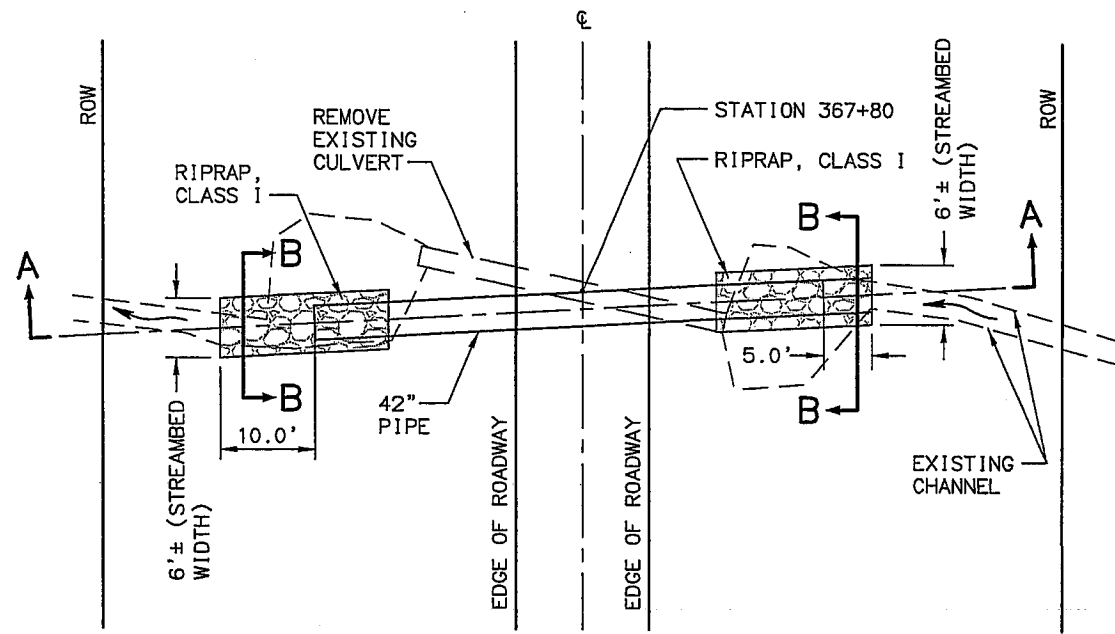
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
**WILLIAMSPORT-PILE BAY ROAD
SPOT REPAIR**

PIPE INSTALLATION DETAIL
MP 6.72
STATION 364+00

DRAWING LOCATION: H:\Staff\Engineering\Projects\2004\Williamsport\dwg\Culverts_VP\Bldwg_8/16/2007_114147 AM ADT LAYOUT: MP 6.72 SCALE: 1:5 DESIGNED BY: JAW CHECKED BY: JSP

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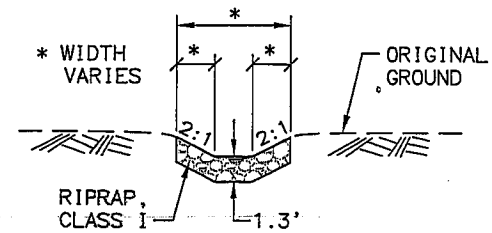
REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION					
			ALASKA	STP-0001(349)/51651	2007	E9	E16



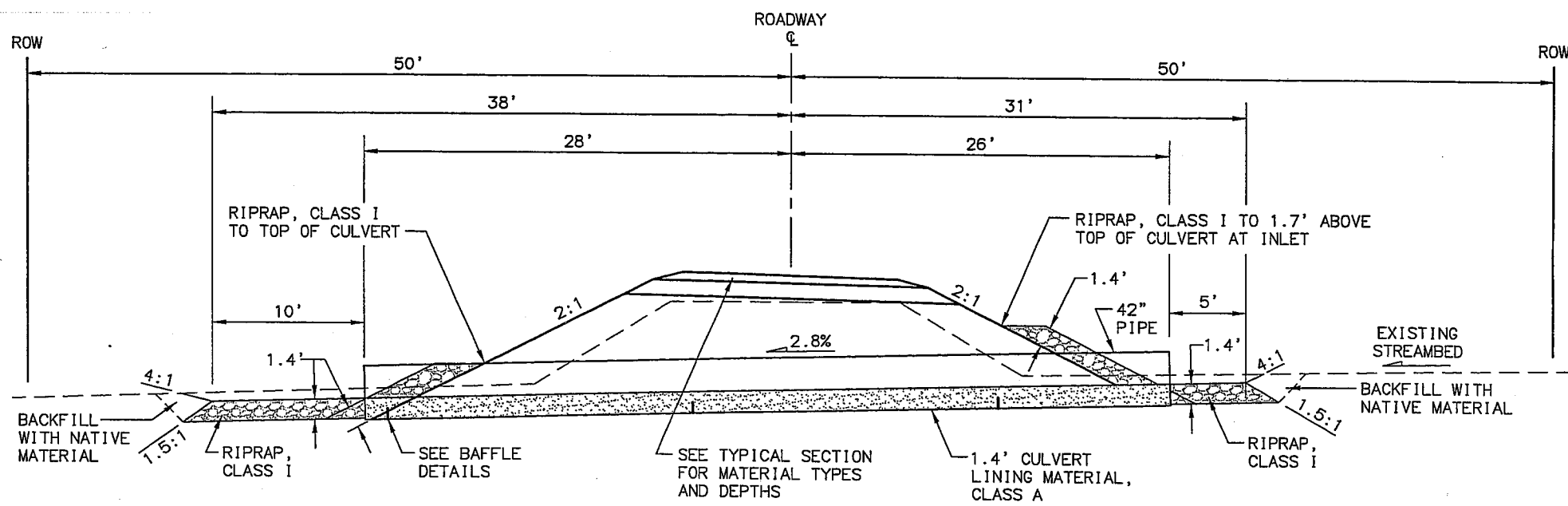
PLAN

NOTES:

1. PLACE THE INLET INVERT 2.0' BELOW THE INLET INVERT OF THE EXISTING CULVERT.
2. BACKFILL RIPRAP IN THE STREAM CHANNEL WITH CULVERT LINING MATERIAL.



SECTION B-B



SECTION A-A

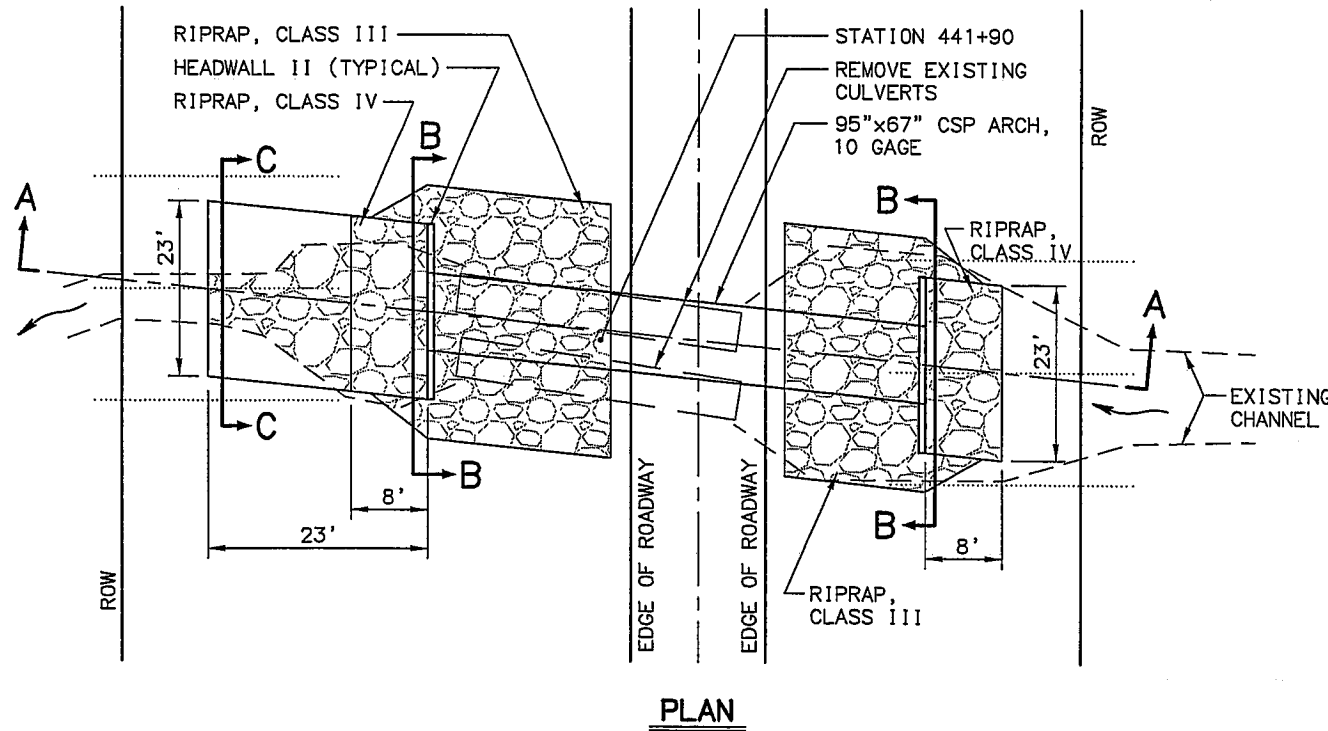
PRELIMINARY PLAN

CENTRAL DISTRICT
DATE 8-16-07



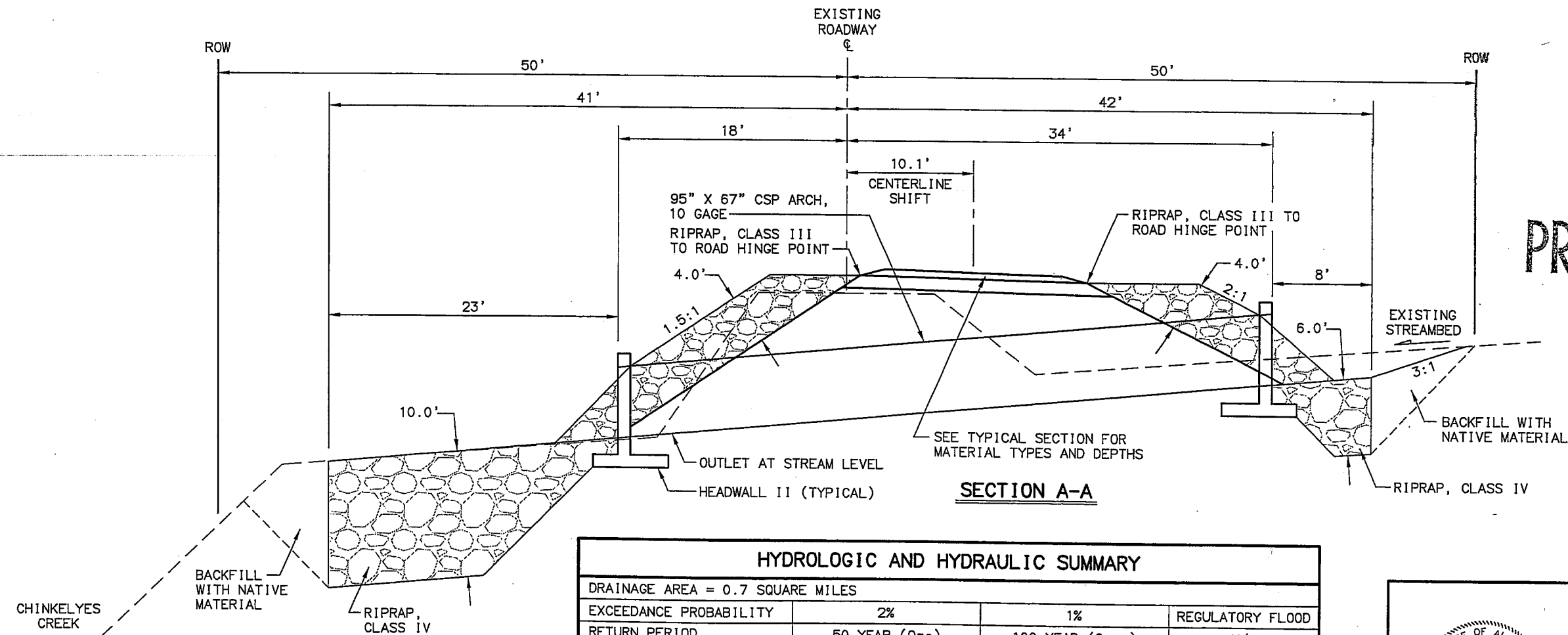
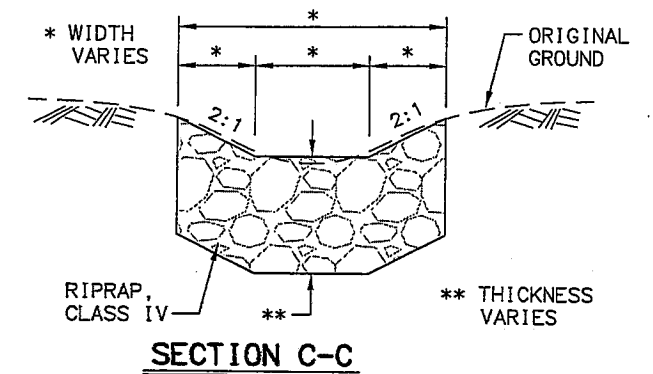
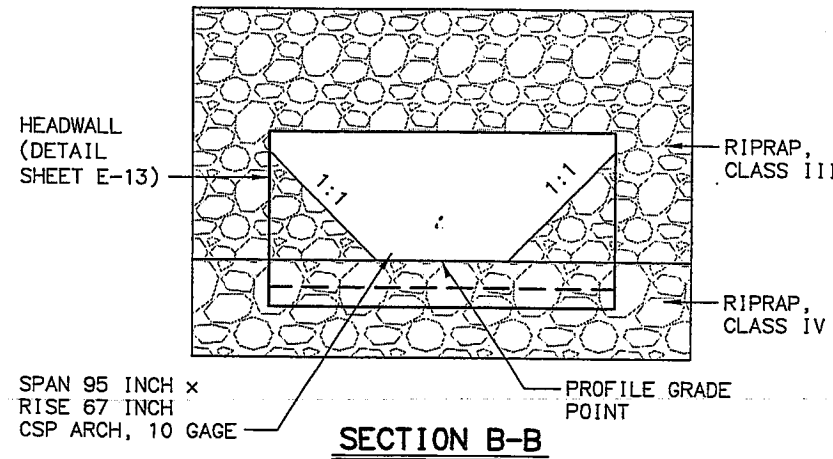
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND
 PUBLIC FACILITIES
WILLIAMSPORT-PILE BAY ROAD
SPOT REPAIR
PIPE INSTALLATION DETAIL
MP 6.8
STATION 367+80

DRAWING LOCATION
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ADT
LAYOUT
MP8.2
SCALE
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DESIGNED BY
N/A
CHECKED BY
N/A
DRAFTED BY
N/A



NOTES:

1. PLACE THE INLET INVERT 2.0' BELOW THE STREAMBED.
2. PLACE THE OUTLET INVERT ON STREAM BED.
3. CONSTRUCT HEADWALL PER SHEET E13.
4. WRAP THE EMBANKMENT RIPRAP AROUND ENDS OF HEADWALL USING 2:1 SLOPE TOWARDS THE PIPE TO PREVENT HEADWALL FLANKING.



PRELIMINARY PLAN

CENTRAL DISTRICT
DATE 8-16-07

HYDROLOGIC AND HYDRAULIC SUMMARY

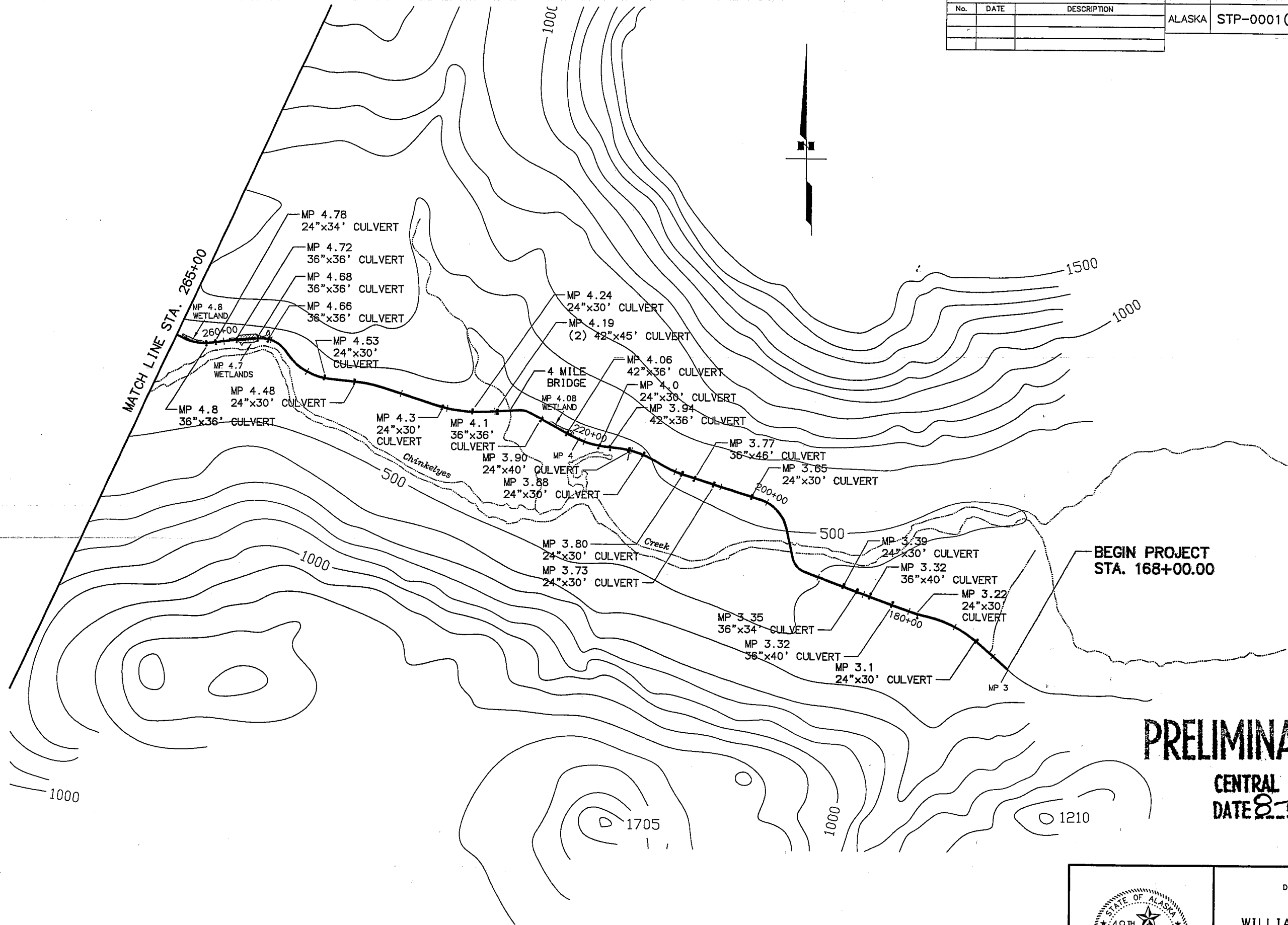
DRAINAGE AREA = 0.7 SQUARE MILES			
EXCEEDANCE PROBABILITY	2%	1%	REGULATORY FLOOD
RETURN PERIOD	50 YEAR (Q ₅₀)	100 YEAR (Q ₁₀₀)	N/A
DESIGN DISCHARGE	161 C.F.S.	199 C.F.S.	N/A
DESIGN HIGH WATER ELEVATION	4.0 FEET ABOVE CULVERT INLET INVERT	4.7 FEET ABOVE CULVERT INLET INVERT	N/A
ANTICIPATED ADDITIONAL BACKWATER AT (Q ₁₀₀) = 0.0 FEET			



STATE OF ALASKA
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WILLIAMSPORT-PILE BAY ROAD
SPOT REPAIR
PIPE INSTALLATION DETAIL
MP 8.2
STATION 441+90

DRAWING LOCATION
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DESIGNED BY
CHECKED BY
DRAFTED BY
VS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION					
			ALASKA	STP-0001(349)/51651	2007	Q6	Q6



PRELIMINARY PLAN
CENTRAL DISTRICT
DATE 8-16-07



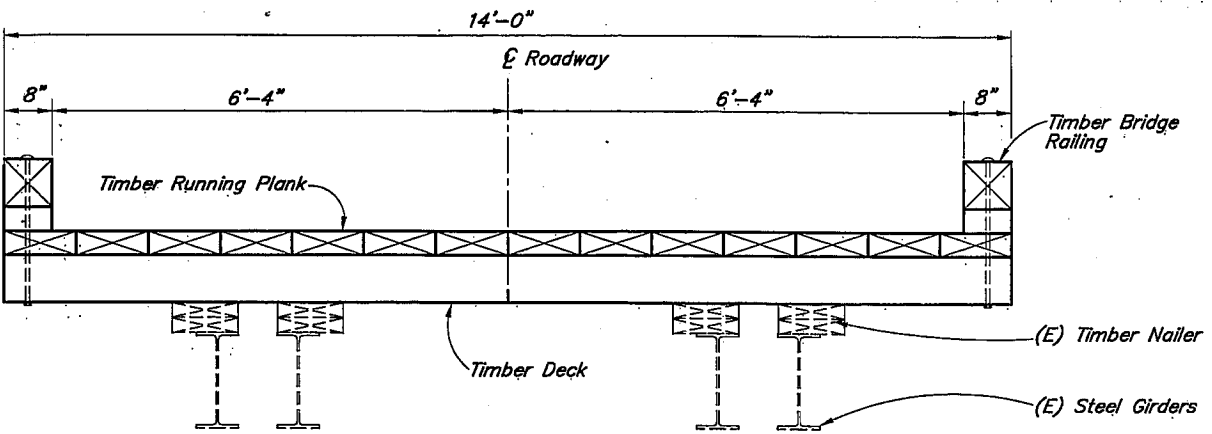
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

WILLIAMSPORT-PILE BAY ROAD
SPOT REPAIR

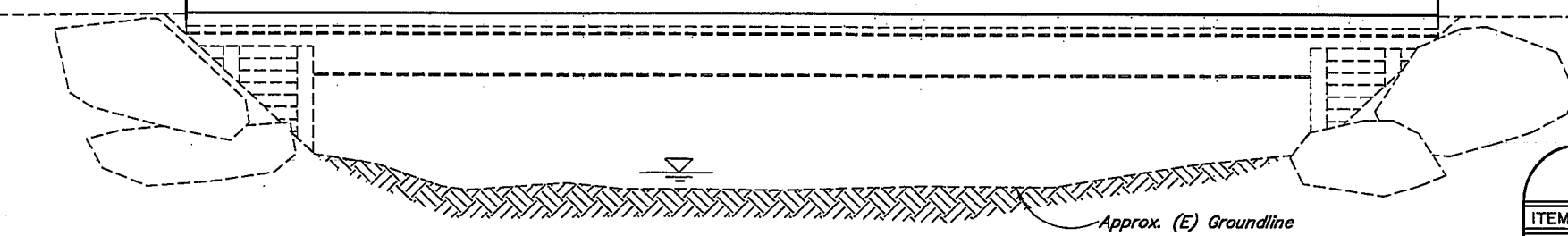
EROSION AND SEDIMENT CONTROL
OVERVIEW

BEGIN BRIDGE 39'-0"± END BRIDGE

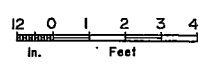
4'-3"± (E) Brg. Abut. 1 30'-6"± (E) Brg. Abut. 2 4'-3"±



TYPICAL SECTION



ELEVATION



Approx. O.H.W.

FOURMILE CREEK

To Pile Bay

BEGIN BRIDGE

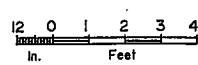
END BRIDGE

Williamsport - Pile Bay Road

To Williamsport

Approx. O.H.W.

PLAN



BRIDGE BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	SUBST.	SUPERST.	TOTAL
506(3)	Treated Timber	MBM	MBM	-	4475	4475
506(4)	Untreated Timber	MBM	MBM	-	2184	2184
507(5)	Timber Bridge Railing	LF	LF	-	78.0	78.0

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

BRIDGE DRAWING INDEX

TITLE	DWG. NO.
GENERAL LAYOUT	1
MISCELLANEOUS DETAILS	2

REHABILITATION

PRELIMINARY PLAN

CENTRAL DISTRICT
DATE 8-16-07

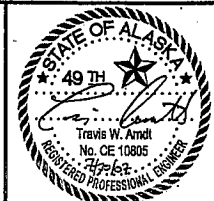
NOTES:

- (E) = Existing
- = Existing
- = Proposed
- O.H.W. = Ordinary High Water

Elevations, Bearings and Dimensions are based on "AS-BUILT" plans. Verify all controlling field dimensions before ordering or fabricating any material.

DESIGNED BY: Todd Boris	CHECKED: Travis Arndt	LAYOUT BY: Todd Boris	CHECKED BY: Travis Arndt
DRAWN BY: G. Anderson	CHECKED: Todd Boris	SPECIFICATIONS BY: Todd Boris	P'S & E COMPARED: Todd Boris
QUANTITIES BY: Todd Boris	CHECKED: Travis Arndt	APPROVAL RECOMMENDED BY: Richard Pratt	

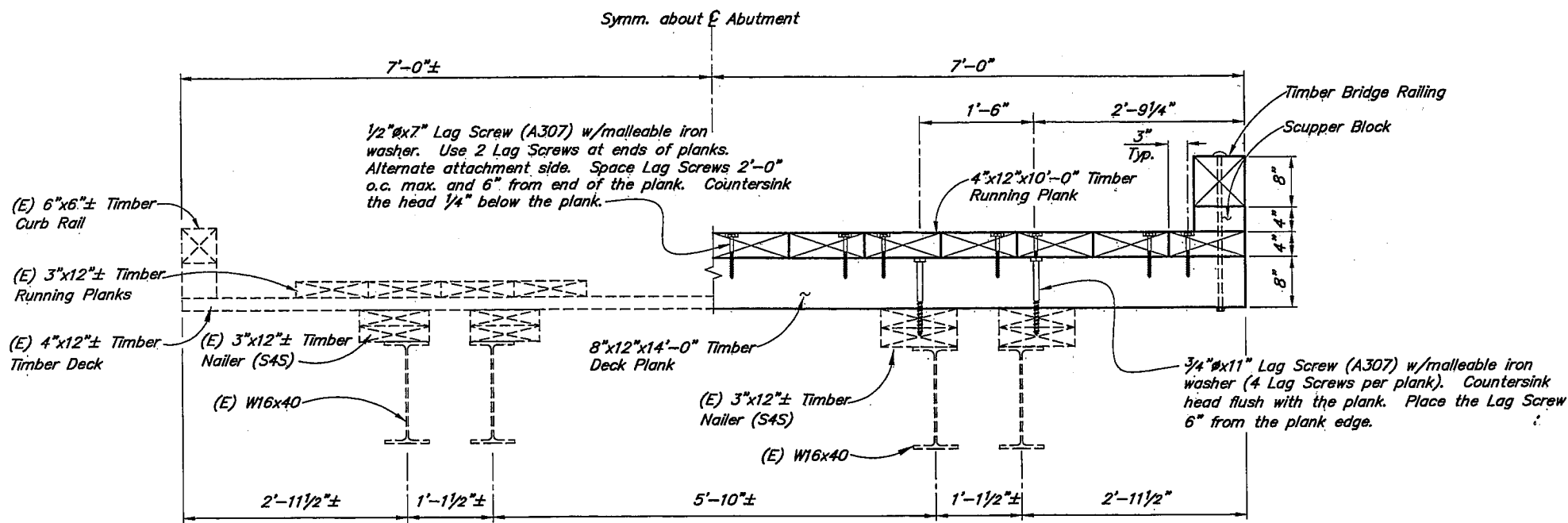
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION



FOURMILE CREEK BRIDGE
WILLIAMSPORT - PILE BAY ROAD
GENERAL LAYOUT

BRIDGE NO. 1235
DWG. NO. 1

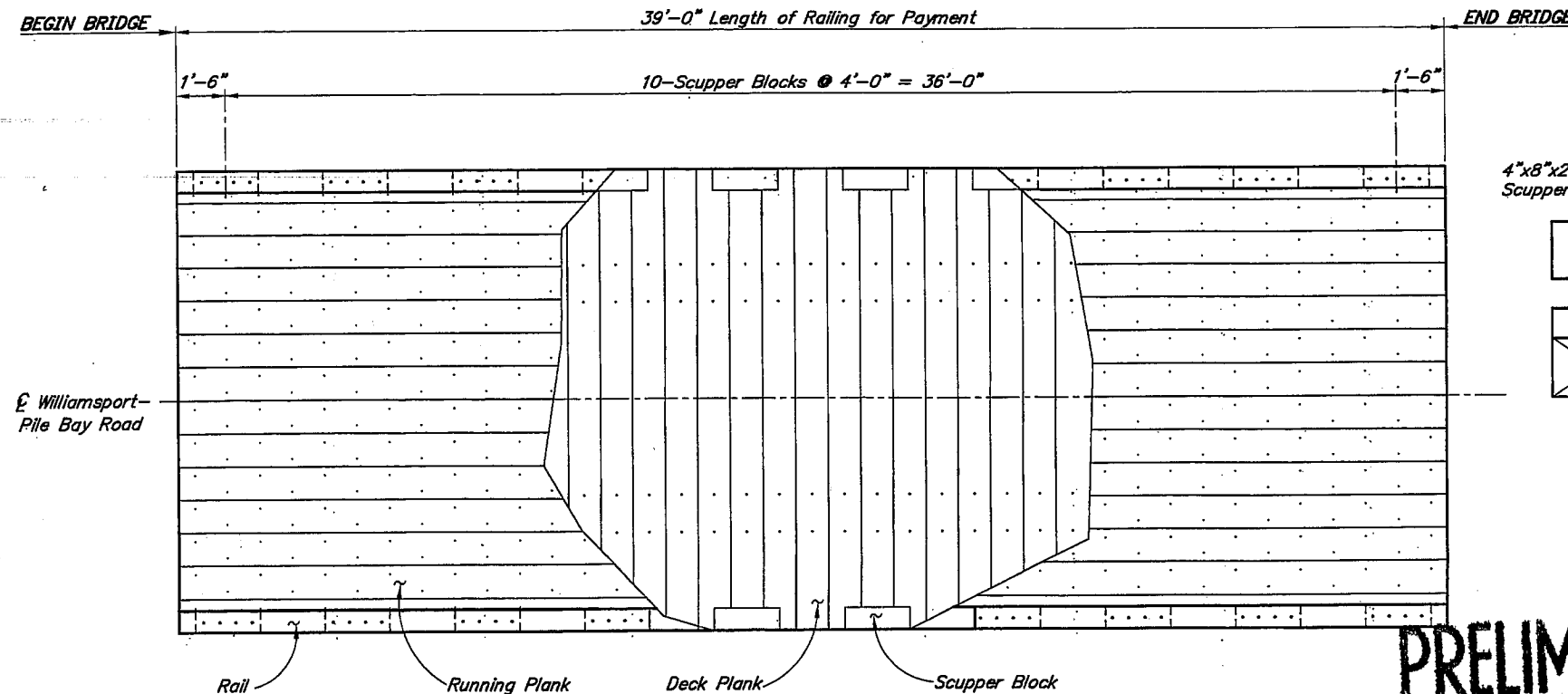
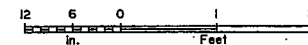
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-0001(349)/51651	2007	N2	N4



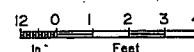
EXISTING

TYPICAL SECTION

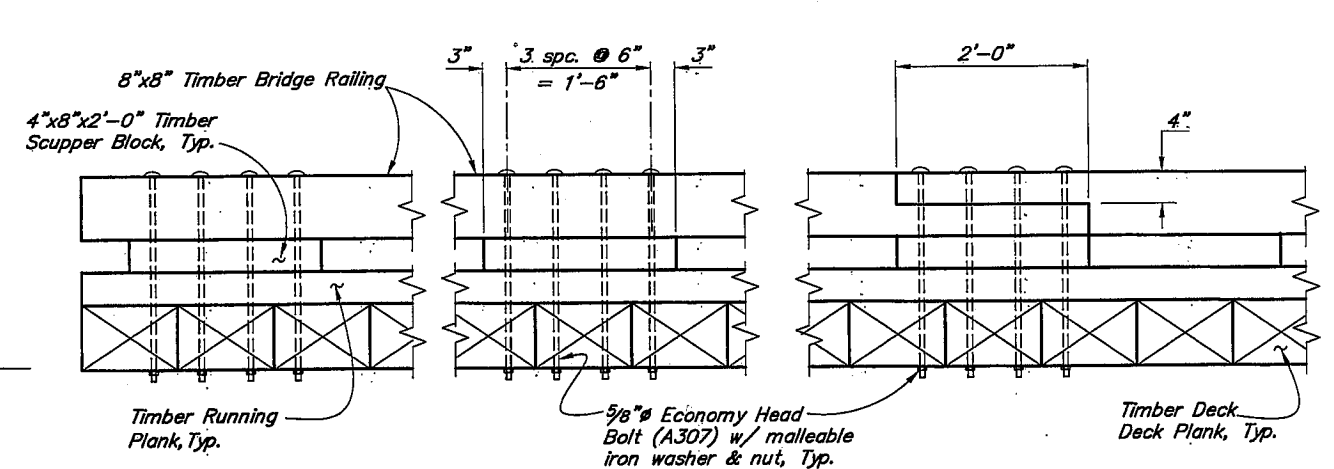
PROPOSED



DECK PLAN



END BRIDGE



END

TYPICAL SCUPPER BLOCK

TYPICAL SPLICE

NOTES:

(E) = Existing

--- = Existing

— = Denotes new Construction

Make Curb Rail continuous over 2 Scupper Blocks, Min.

Elevations, Bearings and Dimensions are based on "AS-BUILT" plans. Verify all controlling field dimensions before ordering or fabricating any material.

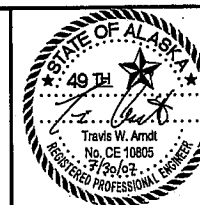
PRELIMINARY PLAN

CENTRAL DISTRICT
DATE 8-16-07

DESIGNED BY:	Todd Boris	CHECKED:	Travis Arndt
DRAWN BY:	C. Anderson	CHECKED:	Todd Boris
QUANTITIES BY:	Todd Boris	CHECKED:	Travis Arndt

REHABILITATION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION



FOURMILE CREEK BRIDGE
WILLIAMSPORT - PILE BAY ROAD
MISCELLANEOUS DETAILS



BRIDGE NO. 1235

DWG. NO. 2