

Western Federal Lands Highway Division



EEBACS Construction Paynote Examples

Construction Paynote Examples

This book was developed to be used as a tool for Western Federal Lands Highway Division staff, our partnering agencies, and the contractors we work with. The Construction Paynote Examples book gives examples of how a contractor should submit a request for payment (paynote), and what documentation is required to support their request.

Section 109 Measurement and Payment of the FP-03 details how items of work should be measured and paid. Examples in this book were created to demonstrate the various methods of measurement and support documentation. The method prescribed in the FP-03 or Special Contract Requirements supersede any example give in the Field Note Sample Book.

General Instructions

- Take or convert all measurements according to International System of Units (SI), IEEE/ASTM SI 10.
- Prepare, sign, and submit electronic measurement notes (paynotes) using EEBACS .
- To correct an error, generate a new paynote if existing paynote has been submitted to PE and accepted.
- Paynotes and any support documentation shall be organized and clearly legible.
- As a minimum, include the following information in the EEBACS paynote and support documentation:
 - (a) Project number and name;
 - (b) Pay item number and description;
 - (c) Date the work was performed;
 - (d) Location of the work;
 - (e) Measured quantity;
 - (f) Calculations made to arrive at the quantity;
 - (g) Supporting sketches and details as needed to clearly define the work performed and the quantity measured;
 - (h) Names of persons measuring the work;
 - (i) Identification as to whether the measurement is interim or final; and
 - (j) Signed certification statement by the persons taking the measurements and performing the calculations, that the measurements and calculations are correct.

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Section 150

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Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Proj

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 28 INS Pay Item Number: 15101-0000 Line Number: A 0020
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: MOBILIZATION

Acct	Contract Quantities			Revised Quantities		Probables			
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	100%	\$800,000.00	LPSM	\$800,000.00	100%	\$800,000.00	100%	\$800,000.00	0.00
CON01	100%	\$800,000.00	LPSM	\$800,000.00	100%	\$800,000.00	100%	\$800,000.00	0.00

Pay Note Date*: 04-02-2014

Entries:

Pay Note Entry #1

Work Date Start Date*: 03-01-2014

Work Date End Date*: 03-31-2014

Location/Description*:
 Refer to FP-03 151.03(c)
 Original contract amount (\$8,515,025) minus mobilization (\$800,000) = revised total (\$7,715,025)
 Contract work complete to date = \$875,500 (which is greater than 10% contract amount via other bid items)
 Pay lesser of the following two amounts:
 (a) 100% of mobilization = \$800,000
 (b) 10% of original contract = \$851,502.50
 Previous Payment = \$400,000
 Remaining balance for payment: \$800,000 - \$400,000 = \$400,000

CON01 Main account Quantity: \$ 400000

Remarks/Calculations:
 Paynote 2 of 2 in series

CON01 Main account Quantity: \$400,000.00

Total Pay Note Quantity: \$400,000.00

Total Production Days: 31

Production Rate: \$12,903.23/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: Interim Final

Supporting Documentation:

Reference:

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Proj

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 2 INS Pay Item Number: 15201-0000 Line Number: A 0040
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: CONSTRUCTION SURVEY AND STAKING

Acct	Contract Quantities			Revised Quantities		Probables			
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	100%	\$250,000.00	LPSM	\$250,000.00	100%	\$250,000.00	100%	\$250,000.00	0.00
CON01	100%	\$250,000.00	LPSM	\$250,000.00	100%	\$250,000.00	100%	\$250,000.00	0.00

Pay Note Date*: 08-01-2014

Entries:

Pay Note Entry #1

Work Date Start Date*: 07-01-2014

Work Date End Date*: 07-31-2014

Location/Description*:
 Per FP-03 152.06 Payment is prorated based on the total work completed
 Total Bid = \$8,515,025
 Work completed to date \$1,432,000 = 16.8%
 Construction Survey and Staking Bid Item Total = \$250,000
 16.8% of \$250,000 = \$42,000

CON01 Main account Quantity: \$ 42000

Remarks/Calculations:

CON01 Main account Quantity: \$42,000.00

Total Pay Note Quantity: \$42,000.00
 Total Production Days: 31
 Production Rate: \$1,354.84/Day
 Measured By*: Bob COE
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final
 Supporting Documentation:

Reference:

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Pro

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

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FHWA Pay Note

Pay Note: 40 INS Pay Item Number: 15201-0000 Line Number: A 0040
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: CONSTRUCTION SURVEY AND STAKING

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	100%	\$250,000.00	LPSM	\$250,000.00	100%	\$250,000.00	100%	\$250,000.00	0.00
CON01	100%	\$250,000.00	LPSM	\$250,000.00	100%	\$250,000.00	100%	\$250,000.00	0.00

Pay Note Date*: 08-02-2014

Entries:

Pay Note Entry #1

Work Date Start Date*: 07-01-2014

Work Date End Date*: 07-31-2014

Location/Description*:

B I U

Per 152.03 Submit a breakdown for use in progress payment:

100% complete of "Check Existing Control":	\$60,000
100% complete of "Stake Rockery Wall":	\$2,500
50% complete of "Stake Pipe":	(0.5)(\$55,000) = \$27,500
Total this estimate:	\$90,000

Do Not Copy and Paste
Tables. EEBACS Does Not
Like It.

CON01 Main account Quantity:
\$ 90000

Remarks/Calculations:

B I U

*See attached Surveying Work Breakdown

CON01 Main account Quantity: \$90,000.00

Total Pay Note Quantity: \$90,000.00

Total Production Days: 31

Production Rate: \$2,903.23/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: Interim Final

Supporting Documentation:

File Name:
152_Survey_Breakdown_Example.pdf

Reference:

B I U

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Western Federal Lands Highway Division
 Project Engineer
 610 E 5th Street
 Vancouver, WA 98661

WA PRA FVNP 100(1)
 FORT VANCOUVER NATIONAL PARK
 DTFH-C2014

Dear Mr. Engineer,

As per your request here is the following breakdown for Surveying for the above referenced project,

Check Existing Control	24%	\$60,000.00
Stake Pipe	22%	\$55,000.00
Stake Channel Changes	5%	\$12,500.00
Stake Approach Roads	7%	\$17,500.00
Stake Rockery Wall	1%	\$2,500.00
Stake Underdrain System	7%	\$17,500.00
Stake Curb and Gutter	2%	\$5,000.00
Stake Signs	3%	\$7,500.00
Stake Guardrail	2%	\$5,000.00
Set Blue and Red Tops	25%	62,500.00
Layout Striping	2%	\$5,000.00
Grand Total	100%	\$250,000.00

If you have any questions please call me at 360-XXX-XXXX

Sincerely,

John Smith
 Project Manager

Project Number: WA PRA FVNP 100(1) **Project Name:** FORT VANCOUVER NATIONAL PARK **Contract Number:** DTFH-C2014 **States:** WA

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FHWA Pay Note

Pay Note: 4 INS **Pay Item Number:** 15301-0010 **Line Number:** A 0060
Period: 1 INS **Pay Item Type:** Normal pay item **Contract Mod #:**
Description: CONTRACTOR QUALITY CONTROL AND ASSURANCE

Acct	Contract Quantities			Revised Quantities		Probables		% Over / Under	
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity		Amount
	100%	\$500,000.00	LPSM	\$500,000.00	100%	\$500,000.00	100%	\$500,000.00	0.00
CON01	100%	\$500,000.00	LPSM	\$500,000.00	100%	\$500,000.00	100%	\$500,000.00	0.00

Pay Note Date*: 04-01-2014

Entries:

Pay Note Entry #1

Work Date Start Date*: 03-01-2014

Work Date End Date*: 03-31-2014

Location/Description*:

B I U [Icons]

Payment prorated based on total work completed
 Original contract amount: \$8,515,025
 10% of contract work complete to date: \$851,502.50
 Item 15301 bid total is: \$500,000
 10% of 15301: \$50,000
 Payment this estimate: \$50,000

CON01 Main account Quantity:
 \$ 50000

Remarks/Calculations:

B I U [Icons]

Paynote 1 of 2 in Series

CON01 Main account Quantity: \$50,000.00

Total Pay Note Quantity: \$50,000.00
 Total Production Days: 31
 Production Rate: \$1,612.90/Day
 Measured By*: Bob COE
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final
 Supporting Documentation:
 Reference:

B I U [Icons]

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Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Proj

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) **Project Name:** FORT VANCOUVER NATIONAL PARK **Contract Number:** DTFH-C2014 **States:** WA

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FHWA Pay Note

Pay Note: 5 INS **Pay Item Number:** 15401-0000 **Line Number:** A 0080
Period: 1 INS **Pay Item Type:** Normal pay item **Contract Mod #:**
Description: CONTRACTOR TESTING

Acct	Contract Quantities			Revised Quantities		Probables		% Over / Under	
	Quantity	Unit Price	Unit	Qty	Amount	Quantity	Amount		
	100%	\$250,000.00	LPSM	\$250,000.00	100%	\$250,000.00	100%	\$250,000.00	0.00
CON01	100%	\$250,000.00	LPSM	\$250,000.00	100%	\$250,000.00	100%	\$250,000.00	0.00

Pay Note Date*: 05-01-2014

Entries:

Pay Note Entry #1

Work Date Start Date*: 04-01-2014

Work Date End Date*: 04-30-2014

Location/Description*:

B I U [Icons]

Refer to FP-03 154.07(a)
 Original contract amount = \$8,515,025
 Testing facilities in-place, qualified sampling/testing personnel identified, testing commenced
 15401 bid item total = \$250,000
 Pay lesser of the two amounts:
 (a) 25% of 15401 item = \$62,500
 or
 (b) 0.5% of original contract amount = \$42,575.13
 Total this estimate = \$42,575.13

CON01 Main account Quantity:
\$ 42575.13

Remarks/Calculations:

B I U [Icons]

Paynote 1 of 2 in series

CON01 Main account Quantity: \$42,575.13

Total Pay Note Quantity: \$42,575.13

Total Production Days: 30

Production Rate: \$1,419.17/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: Interim Final

Supporting Documentation:

Reference:

B I U [Icons]

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Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Proj

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

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FHWA Pay Note

Pay Note: 61 INS Pay Item Number: 15401-0000 Line Number: A 0080
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: CONTRACTOR TESTING

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	100%	\$250,000.00	LPSM	\$250,000.00	100%	\$250,000.00	100%	\$250,000.00	0.00
CON01	100%	\$250,000.00	LPSM	\$250,000.00	100%	\$250,000.00	100%	\$250,000.00	0.00

Pay Note Date*: 05-21-2014

Entries:

Pay Note Entry #1

Work Date Start Date*: 05-01-2014

Work Date End Date*: 05-20-2014

Location/Description*:
 FP-03 154.07(b): Remainder of 15401 prorated based on total work completed
 Original contract amount = \$8,515,025
 Work complete through current date = \$1,250,000 = 14.7% of original contract amount
 15401 bid item total = \$250,000
 Amount previously paid in Estimate No. 1 = \$42,575.13
 Remaining balance for 15401 = \$250,000 - \$42,575.13 = \$207,424.87
 Remaining total of 15401 prorated at 14.7% = (0.147)(\$207,424.87) = \$30,491.46
 Total this estimate = \$30,491.46

CON01 Main account Quantity: \$ 30491.46

Remarks/Calculations:
 Paynote 2 of 2 in series

CON01 Main account Quantity: \$30,491.46

Total Pay Note Quantity: \$30,491.46
 Total Production Days: 0
 Production Rate: \$0.00/Day
 Measured By*: Doug J Worley
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final
 Supporting Documentation:

Reference:
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Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Proj

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

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FHWA Pay Note

Pay Note: 6 INS Pay Item Number: 15705-0100 Line Number: A 0100
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: SOIL EROSION CONTROL, SILT FENCE

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	500.000	\$18.00	LNFT	\$9,000.00	500.000	\$9,000.00	500.000	\$9,000.00	0.00
CON01	500.000	\$18.00	LNFT	\$9,000.00	500.000	\$9,000.00	500.000	\$9,000.00	0.00

Pay Note Date*: 02-11-2014

Entries:

Pay Note Entry #1

Work Date Start Date*: 02-03-2014

Work Date End Date*: 02-10-2014

Location/Description*:

B I U

Stations Where Silt Fence Was Installed:
 24+59 LT to 25+69 LT = 110'
 24+97 RT to 25+65 RT = 68'
 33+62 RT to 33+87 RT = 25'
 41+51 RT to 42+44 RT = 93'
 45+15 LT to 46+03 LT = 88'
 Total = 384'
 FP-03 157.16(a): pay 50% upon install: (0.50)(384') = 192.00'

CON01 Main account Quantity:
 192.0 LNFT

Remarks/Calculations:

B I U

Paynote 1 of 3 in series

CON01 Main account Quantity: 192.000

Total Pay Note Quantity: 192.000 LNFT
 Total Production Days: 1
 Production Rate: 192 LNFT/Day
 Measured By*: Bob COE
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final
 Supporting Documentation:

Reference:

B I U

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Proj

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 11 INS Pay Item Number: 15705-0100 Line Number: A 0100
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: SOIL EROSION CONTROL, SILT FENCE

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	500.000	\$18.00	LNFT	\$9,000.00	500.000	\$9,000.00	500.000	\$9,000.00	0.00
CON01	500.000	\$18.00	LNFT	\$9,000.00	500.000	\$9,000.00	500.000	\$9,000.00	0.00

Pay Note Date*: 03-06-2014

Entries:

Pay Note Entry #1

Work Date Start Date*: 03-05-2014

Work Date End Date*: 03-05-2014

Location/Description*:

B I U [Icons]

New installation:
 47+36 LT to 47+99 LT = 63'
 49+20 RT to 49+73 RT = 53'
 Total = 116'

FP-03 157.16(a): 50% of the unit bid price will be paid upon installation.
 Current quantity claimed: 50% of 116' = 58'

and

FP-03 157.16(b): additional 25% of unit bid price will be paid following completion of 50% of contract amount
 Total Bid: \$8,515,025
 Work completed to date \$5,000,000 = 59%
 therefore (0.25)(116') = 29'

AND from previous estimate:
 384' feet installed X 0.25 = 96'

Total this estimate = 58' + 29' + 96' = 183.00'

CON01 Main account Quantity:
 LNFT

Remarks/Calculations:

B I U [Icons]

Paynote 2 of 3 in series

CON01 Main account Quantity: 183.000

Total Pay Note Quantity: 183.000 LNFT

Total Production Days:

Production Rate: 183 LNFT/Day

Measured By*:

FHWA Inspector:

Contractor Inspector:

Interim/Final*: Interim Final

Supporting Documentation:

Reference:

B I U [Icons]

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 29 INS Pay Item Number: 15705-0100 Line Number: A 0100
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: SOIL EROSION CONTROL, SILT FENCE

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	500.000	\$18.00	LNFT	\$9,000.00	500.000	\$9,000.00	500.000	\$9,000.00	0.00
CON01	500.000	\$18.00	LNFT	\$9,000.00	500.000	\$9,000.00	500.000	\$9,000.00	0.00

Pay Note Date*: 04-03-2014

Entries:

Pay Note Entry #1

Work Date Start Date*: 04-02-2014

Work Date End Date*: 04-02-2014

Location/Description*:

No new silt fence installed:
 All Silt fence completely removed from the project limits.
 FP-03 157.16(c): Pay remaining portion.
 Total installed: 384' + 116' = 500'
 Total paid to date = 192' + 183' = 375'
 Total remaining payment: 500' - 375' = 125.00'

CON01 Main account Quantity:
 125.0 LNFT

Remarks/Calculations:

Paynote 3 of 3 in series

CON01 Main account Quantity: 125.000

Total Pay Note Quantity: 125.000 LNFT
 Total Production Days: 1
 Production Rate: 125 LNFT/Day
 Measured By*: Bob COE
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final
 Supporting Documentation:

Reference:

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note

Return To Pro

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 7 INS Pay Item Number: 15801-0000 Line Number: A 0120

Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:

Description: WATERING FOR DUST CONTROL

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	100.00	\$55.00	MGAL	\$5,500.00	100.00	\$5,500.00	100.00	\$5,500.00	0.00
CON01	100.00	\$55.00	MGAL	\$5,500.00	100.00	\$5,500.00	100.00	\$5,500.00	0.00

Pay Note Date*: 06-24-2011 select clear

Entries:

Pay Note Entry #1

Work Date Start Date*: 06-24-2011 select clear

Work Date End Date*: 06-24-2011 select clear

Location/Description*:
 Watering for Dust Control:
 STA 4+75 - STA 6+50 = 1 payload
 STA 4+75 - STA 6+50 = 1 payload
 Total Payloads = 2
 1 payload = 3.2 MGAL
 Total Water Placed = 2 x 3.19 MGAL = 6.38 MGAL

CON01 Main account Quantity:
 6.4 MGAL

Remarks/Calculations:
 *See attached supporting documentation and calculation:
 FHWA 17-348 Form
 Initial Weigh Scale Ticket for water truck capacity verification

Delete

Add Entry

CON01 Main account Quantity: 6.40

Total Pay Note Quantity: 6.40 MGAL

Total Production Days: 1

Production Rate: 6.40 MGAL/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: Interim Final

Supporting Documentation: File Name: 15801_Watering_for_Dust_Control_support.pdf

Delete

Add Document

Reference:

Rich text area for reference with formatting tools (B, I, U, list, link, etc.)

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

SECTION 150

FORM FHWA 17-348 (12/2007)



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
 Western Federal Lands Highway Division
 610 E. 5th St. Vancouver, Washington 98661

FP-03 109.01

(a) Project Name: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 (b) Item Number: 15801
 Item Description: Watering for dust control
 (c) Date work performed: 6-24-2011

Date Stamp
Copy Stamp

Daily Record Of Miscellaneous Items

(d), (f) & (g) Locations and Calculations*:
 Truck Number 142

Time Of Load Placement	Start Station	Stop Station	For Payment	Total Water Placed
08:15	02+20	02+50	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	NA
09:30	02+50	03+00	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	NA
10:15	04+00	04+75	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	NA
11:30	04+75	06+50	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.19 Mgal
13:00	02+20	02+50	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	NA
14:30	02+50	03+00	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	NA
16:15	04+00	04+75	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	NA
17:30	04+75	06+50	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.19 Mgal
			<input type="checkbox"/> Yes <input type="checkbox"/> No	
			<input type="checkbox"/> Yes <input type="checkbox"/> No	
			<input type="checkbox"/> Yes <input type="checkbox"/> No	
			<input type="checkbox"/> Yes <input type="checkbox"/> No	
			<input type="checkbox"/> Yes <input type="checkbox"/> No	
				2 Loads @ 3.19 Mgal/load = 6.38 Mgal

*Attach additional sheets if necessary.

(e) Measured Quantity:	6.4	Mgal
-------------------------------	-----	------

(h) Name of person measuring work: Fred Maynes

(i) Interim Measurement Final Measurement

See Appendix C for example tank volume calculations

I certify the above measurements and calculations are correct and the total quantity is subject to direct payment for the item identified.

John B. Contractor
 (j) Contractor Representative

FHWA Use Only	
Verified By:	
Construction Inspector	Entered To Record
Approved:	
FHWA Representative	Checked By:
	Date:

Example initial Weigh Scale ticket to establish capacity:



Central Oregon Division
64500 OB Riley RD
Bend, OR 97701

Mail Address:
PO Box 83
541-388-0445
541-388-8932 (fax)

4248310 Customer

Sold To: HTS CASH SALES

Cash Check Charge COD C.C.

Job: 43190

Driver _____ Truck #RAJ1

Material	Net Tons	Price	Tax	Amount
25SCALE	13.31	0.00	0.00	0.00
Weigher Initials	Dorene Da	Haul Charge	0.00	

Received By _____ Total 0.00

Terms: Cash on or before 10th of month following purchase. Finance charges of 1.5% per month or the maximum rate otherwise permitted by law, whichever is the lesser, may be charged on all past due balances.

7/13/2012 11:38:20AM	
250810	Lone Pine
SCALE USAGE FEE	
	<u>Pounds</u> <u>Tons</u>
Gross	48,160 24.08
Tare	21,540 10.77
Net	26,620 13.31
Order No:	
Loads Today:	1
Qty. Today:	13.31
DELIVER INSTRUCTIONS:	

13.31 tons = 26,620 lbs / 8.3454 lb/gal
= 3.19 Mgal per truck load

Section 200

20101 Clearing and Grubbing_____	Page 16
20206 Selective Clearing and Grubbing, Tree Removal _____	Page 31
20303 Removal of Pavement, Asphalt _____	Page 33
20401 Excavation and Embankment, Roadway Excavation _____	Page 35
20402 Excavation and Embankment, Subexcavation _____	Page 45
20411 Select Borrow _____	Page 53
20701 Earthwork Geotextile _____	Page 56
21101 Roadway Obliteration _____	Page 58
25101 Placed Riprap _____	Page 60
25105 Keyed Riprap_____	Page 65
25125 Boulder _____	Page 67
25210 Rockery Wall _____	Page 69

Projects: WA PRA FVNP 100(1) Constructions: Progress Pay Periods 1 INS: Pay Note Return To Pro

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary Pay Notes Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: G4 INS Pay Item Number: 20101-0000 Line Number: A 0140
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: CLEARING AND GRUBBING

Acct	Contract Quantities				Revised Quantities		Probables		
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	5.50	\$7,900.00	ACRE	\$43,450.00	5.50	\$43,450.00	5.50	\$43,450.00	0.00
CON01	5.50	\$7,900.00	ACRE	\$43,450.00	5.50	\$43,450.00	5.50	\$43,450.00	0.00

Pay Note Date*: 02-12-2015

Entries:

Pay Note Entry #1

Work Date Start Date*: 02-19-2014

Work Date End Date*: 02-18-2014

Location/Description*:
 13+320 to 14+500: 28,628 m2 per FHWA clearing report = 7.0741 acre

Be sure to adjust designed clearing distances and areas to reflect actual areas of work performed

CON01 Main account Quantity:
 7.074 ACRE

Remarks/Calculations:
 see attached documentation:
 (a) Contractor clearing report
 (b) FHWA clearing report
 conversion: 28,628 m2 = 0.000247105 acre/m2 = 7.0741 acre

CON01 Main account Quantity: 7.07

Total Pay Note Quantity: 7.07 ACRE
 Total Production Days: 0
 Production Rate: 0.00 ACRE/Day
 Measured By*: Doug J Worley
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final

Supporting Documentation: File Name:
 20101_Clearing_and_Grubbing_Example_1_support.pdf

Reference:

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Clearing Report
 Project Name: Sunriver to Mt. Bachelor
 Project Number: OR PFH 244-1(1)
 Item No. **20101-0000 Clearing & Grubbing**
 Measurements by: John Smith 7/06/2013
 Calculations by: Fred Maynes 7/08/2013



Stations 13+320 to 18+780

Station	Sq. Meters
13 320	
13 340	458
13 360	462
13 380	461
13 400	460
13 420	458
13 440	454
13 460	457
13 480	467
13 500	474
13 520	486
13 540	497
13 560	507
13 580	527
13 600	530
13 620	526
13 640	532
13 660	537
13 680	527
13 700	495
13 720	473
13 740	468
13 760	464
13 780	448
13 800	469
13 820	412
13 840	338
13 860	385
13 880	412
13 900	403
13 920	400
13 940	398
13 960	431
13 980	459
14 000	425
14 020	397
14 040	390
14 060	391
14 080	383
14 100	387
14 120	419
14 140	472
14 160	525
14 180	540
14 200	649
14 220	643
14 240	554
14 260	563
14 280	531
14 300	526
14 320	546
14 340	577
14 360	593
14 380	598
14 400	594
14 420	615
14 440	661
14 460	563
14 480	426
14 500	385
Total	28628

Station	Sq. Meters
17 580	
17 600	484
17 620	442
17 640	399
17 660	380
17 680	360
17 700	354
17 720	379
17 740	414
17 760	434
17 780	438
17 800	386
17 820	405
17 840	512
17 860	521
17 880	444
17 900	390
17 920	425
17 940	506
17 960	511
17 980	471
18 000	466
18 020	482
18 040	510
18 060	503
18 080	468
18 100	453
18 120	439
Total	11976

Station	Sq. Meters
18 440	
18 460	533
18 480	541
18 500	554
18 520	567
18 540	537
18 560	519
18 580	550
18 600	615
18 620	625
18 640	576
18 660	557
18 680	502
18 700	448
18 720	425
18 740	431
18 760	400
18 780	375
Total	8755

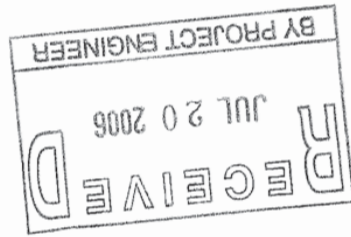
These support pages should be checked and signed by FHWA

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 BY PROJECT ENGINEER

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SUNRIVER TO MT. BACHELOR
 PROJ OR PFH 244-1 (1)
 MAINLINE
 CLEARING REPORT

Page# 42



STATION	CLEARING LT	DISTANCE RT	EXCEPTION WIDTH	AREA m2	SUBTOTAL m2	AREAS ES
13+240.00 R 1	9.273	9.967	0.000	391		
13+260.00 R 1	12.882	13.631	0.000	458		
13+280.00 R 1	11.567	9.745	0.000	479		
13+300.00 R 1	11.843	10.420	0.000	436		
13+320.00 R 1	12.073	10.653	0.000	450		
13+340.00 R 1	12.230	10.777	0.000	458		
13+360.00 R 1	12.291	10.815	0.000	462		
13+380.00 R 1	11.620	11.279	0.000	461		
13+400.00 R 1	11.489	11.514	0.000	460		
13+420.00 R 1	11.209	11.546	0.000	458		
13+440.00 R 1	10.907	11.651	0.000	454		
13+460.00 R 1	11.100	11.968	0.000	457		
13+480.00 R 1	11.532	12.081	0.000	467		
13+500.00 R 1	11.942	11.787	0.000	474		
13+520.00 R 1	12.076	12.753	0.000	486		
13+540.00 R 1	11.915	12.874	0.000	497		
					10912	1.0 (ACCUM m2 294813.0000)

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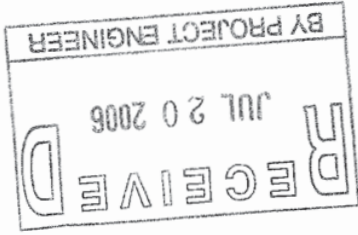
START

01/03/2006

SUNRIVER TO MT. BACHELOR
 PROJ OR PFH 244-1(1)
 MAINLINE

Page# 43

CLEARING REPORT



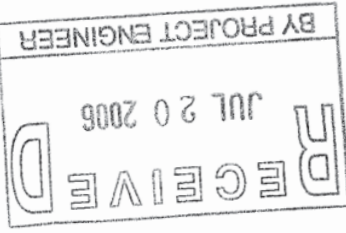
STATION	CLEARING LT	DISTANCE RT	EXCEPTION WIDTH	AREA m2	SUBTOTAL m2	AREAS ES
13+560.00 R 1	12.331	13.511	0.000	507		
13+580.00 R 1	12.878	13.917	0.000	527		
13+600.00 R 1	12.617	13.570	0.000	530		
13+620.00 R 1	12.985	13.412	0.000	526		
13+640.00 R 1	13.397	13.348	0.000	532		
13+660.00 R 1	13.903	12.981	0.000	537		
13+680.00 R 1	13.588	12.165	0.000	527		
13+700.00 R 1	13.215	10.499	0.000	495		
13+720.00 R 1	13.028	10.509	0.000	473		
13+740.00 R 1	12.922	10.308	0.000	468		
13+760.00 R 1	12.251	10.887	0.000	464		
13+780.00 R 1	11.498	10.109	0.000	448		
13+800.00 R 1	10.369	14.855	0.000	469		
13+820.00 R 1	7.089	8.822	0.000	412		
13+840.00 R 1	9.323	8.477	0.000	338		
13+860.00 R 1	12.549	8.137	0.000	385		

76,38 m²

01/03/2006

SUNRIVER TO MT. BACHELOR
 PROJ OR PFH 244-1(1)

Page# 44



MAINLINE
 CLEARING REPORT

STATION	CLEARING LT	DISTANCE RT	EXCEPTION WIDTH	AREA m2	SUBTOTAL m2	AREAS ES
13+880.00 R 1	13.011	7.446	0.000	412		
13+900.00 R 1	12.833	6.951	0.000	403		
13+920.00 R 1	12.725	7.440	0.000	400		
13+940.00 R 1	12.846	6.744	0.000	398		
13+960.00 R 1	13.132	10.335	0.000	431		
13+980.00 R 1	12.369	10.020	0.000	459		
14+000.00 R 1	10.387	9.669	0.000	425	11549	1.1549 (ACCUM m2 306362.0000)
14+020.00 R 1	9.719	9.881	0.000	397		
14+040.00 R 1	9.079	10.266	0.000	390		
14+060.00 R 1	9.148	10.510	0.000	391		
14+080.00 R 1	6.661	11.971	0.000	383		
14+100.00 R 1	6.313	13.732	0.000	387		
14+120.00 R 1	6.513	15.251	0.000	419		
14+140.00 R 1	9.359	16.072	0.000	472		
14+160.00 R 1	11.017	15.999	0.000	525		
14+180.00 R 1	10.501	16.418	0.000	540		

SUNRIVER TO MT. BACHELOR
 PROJ OR PFH 244-1(1)
 MAINLINE
 CLEARING REPORT

01/03/2006



STATION	CLEARING LT	DISTANCE RT	EXCEPTION WIDTH	AREA m2	SUBTOTAL m2	AREAS ES
14+200.00 R 1	13.855	24.066	0.000	649		
14+220.00 R 1	11.103	15.178	0.000	643		
14+240.00 R 1	12.138	16.921	0.000	554		
14+260.00 R 1	10.462	16.707	0.000	563		
14+280.00 R 1	10.456	15.385	0.000	531		
14+300.00 R 1	10.650	16.024	0.000	526		
14+320.00 R 1	11.113	16.776	0.000	546		
14+340.00 R 1	11.917	17.811	0.000	577		
14+360.00 R 1	12.710	16.770	0.000	593		
14+380.00 R 1	12.185	18.083	0.000	598		
14+400.00 R 1	11.802	17.318	0.000	594		
14+420.00 R 1	12.943	19.385	0.000	615		
14+440.00 R 1	20.437	13.276	0.000	661		
14+460.00 R 1	10.209	12.343	0.000	563		
14+480.00 R 1	10.430	9.610	0.000	426		
14+500.00 R 1	9.520	8.872	0.000	385		
					12928	1.2928 (ACCUM m2 319290.0000)

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12928 m²

20101 Clearing and Grubbing -Partial Completion example

Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Proj

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) **Project Name:** FORT VANCOUVER NATIONAL PARK **Contract Number:** DTFH-C2014 **States:** WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 8 INS **Pay Item Number:** 20101-0000 **Line Number:** A 0140
Period: 1 INS **Pay Item Type:** Normal pay item **Contract Mod #:**
Description: CLEARING AND GRUBBING

Contract Quantities				Revised Quantities		Probables			
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	5.50	\$7,900.00	ACRE	\$43,450.00	5.50	\$43,450.00	5.50	\$43,450.00	0.00
CON01	5.50	\$7,900.00	ACRE	\$43,450.00	5.50	\$43,450.00	5.50	\$43,450.00	0.00

Pay Note Date*: 04-02-2014

Entries:

Pay Note Entry #1

Work Date Start Date*: 03-30-2014

Work Date End Date*: 03-31-2014

Location/Description*:

Clearing and Grubbing:

375+00 to 376+50 = 7,876 SQFT
 376+50 to 383+61 = 33,298 SQFT
 383+61 to 389+00 = 25,048 SQFT
 389+00 to 394+50 = 34,852 SQFT
 394+50 to 398+00 = 19,164 SQFT
 398+00 to 400+00 = 15,103 SQFT
 Total = 135,341 SQFT

****Area grubbed, per Appendix A, 75% partial payment**
 (135,341 SQFT)/(43,560 SQFT/ACRE) = 3.1070 acres
 3.107 acres @ 75% complete = 2.3303 acres

CON01 Main account Quantity:
2.330 ACRE

Remarks/Calculations:

*See attached documentation/survey

CON01 Main account Quantity: 2.33

Total Pay Note Quantity: 2.33 ACRE
 Total Production Days: 2
 Production Rate: 1.17 ACRE/Day
 Measured By*: Bob COE
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final

Supporting Documentation:
 File Name: 20101_Clearing_ang_Grubbing_support.pdf

Reference:

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from **APPENDIX 'A'**

**Guidelines for percentage payments for partially
complete work**

<u>Description</u>	<u>Allowance (Cumulative)</u>
Clearing and Grubbing	
• Felled and slashed	35
• Bucked and piled (slashings, brush and logs)	60
• Grubbed	75
• Burned or chipped and removed	98
• Substantially complete including cleanup	100
Excavation and Embankment	
• Pioneered	5
• Drilled	20
• Blasted	35
• Roughed out to grade	85
• Roadbed finished to grade	90
• Slopes seeded	98
• Substantially complete including cleanup	100
Structural Excavation	
• Excavation complete	85
• Backfill complete	98
• Substantially complete including cleanup	100
Aggregate Courses	
• Crushed and stockpiled onsite	50
• Placed on roadway	80
• Spread, compacted and tested	98
• Substantially complete including cleanup	100
Asphalt Pavements	
• Aggregates crushed and stockpiled onsite	50
• Placed, compacted and tested	98
• Substantially complete including cleanup	100

Project Name: FORT VANCOUVER NATIONAL PARK Project Number: WA PRA FVNP 100(1) Item No. 20101-0000 Clearing & Grubbing Field Measurements by: Fred Smith 7/06/2013 Calculations by: John B. Contractor
--

Sta	Sta	SF	
375+00.00	376+50.00	7,876.00	1 acre = 43560 square feet
376+50.00	383+61.10	33,298.00	
383+61.10	389+00.00	25,048.00	
389+00.00	394+50.00	34,852.00	
394+50.00	398+00.00	19,164.00	
398+00.00	400+00.00	15,103.00	
		135,341.00 Total	3.107 acre

WA PFH 208-1(1)
 CAMP GRISDALE ROAD
 Mainline
 CLEARING REPORT

08/15/2007

STATION	CLEARING LT	DISTANCE RT	EXCEPTION WIDTH	AREA SF	SUBTOTAL SF	AREAS ACRES
369+00.00 R 2	36.62	34.60	24.00	2443		
369+50.00 R 2	39.33	35.10	24.00	2442		
370+00.00 R 2	42.05	33.79	24.00	2558		
370+50.00 R 2	56.18	34.75	24.00	2970		
371+00.00 R 2	43.60	33.06	24.00	2990		
371+50.00 R 2	41.32	34.92	24.00	2623		
372+00.00 R 2	43.74	22.39	24.00	2360		
372+50.00 R 2	39.22	25.20	24.00	2064		
373+00.00 R 2	38.87	23.11	24.00	1960		
373+50.00 R 2	44.79	36.14	24.00	2373		
374+00.00 R 2	49.50	45.90	24.00	3209		
374+50.00 R 2	48.94	26.36	24.00	3068		
375+00.00 R 2	48.49	30.41	24.00	2655		
375+50.00 R 2	42.98	32.22	24.00	2653		
376+00.00 R 2	48.76	27.95	24.00	2599		
376+50.00 R 2	52.08	24.14	24.00	2624		

← put in MS Excel spreadsheet
 ✓ 7876 SF

WA PFH 208-1(1)
 CAMP GRISDALE ROAD
 Mainline
 CLEARING REPORT

08/15/2007

STATION	CLEARING LT	DISTANCE RT	EXCEPTION WIDTH	AREA SF	SUBTOTAL SF	AREAS ACRES
377+00.00 R 2	46.56	23.45	24.00	2456		
377+50.00 R 2	44.93	22.38	24.00	2234		
378+00.00 R 2	39.81	22.33	24.00	2037		
378+50.00 R 2	35.30	32.18	24.00	2041		
379+00.00 R 2	24.06	54.41	24.00	2449		
379+50.00 R 2	30.87	50.61	24.00	2799		
380+00.00 R 2	31.04	42.22	24.00	2669		
380+50.00 R 2	30.87	41.81	24.00	2449		
381+00.00 R 2	29.48	40.39	24.00	2364		
381+50.00 R 2	29.77	41.71	24.00	2334		
382+00.00 R 2	28.54	36.00	24.00	2201		
382+50.00 R 2	27.33	26.09	24.00	1750		
383+00.00 R 2	36.05	30.55	24.00	1801		
383+10.60 R 2	41.81	48.02	24.00	575		
383+50.00 R 2	35.85	49.34	24.00	2503		
383+61.10 R 2	28.95	48.41	24.00	636		

Σ 33,298 SF ← put in MS Excel spreadsheet

WA PFH 208-1(1)
 CAMP GRIDDALE ROAD
 Mainline
 CLEARING REPORT

08/15/2007

STATION	CLEARING LT	DISTANCE RT	EXCEPTION WIDTH	AREA SF	SUBTOTAL SF	AREAS ACRES
384+00.00 R 2	28.67	32.86	24.00	1768		
384+50.00 R 2	32.86	46.92	24.00	2333		
384+61.10 R 2	28.55	29.00	24.00	496		
385+00.00 R 2	27.07	29.00	24.00	1277		
385+20.00 R 2	28.70	29.00	24.00	658		
385+47.01 R 2	31.89	29.00	24.00	954		
385+50.00 R 2	32.07	50.98	24.00	144		
385+80.39 R 2	33.82	28.89	24.00	1486		
386+00.00 R 2	35.50	40.57	24.00	891		
386+50.00 R 2	35.44	60.24	24.00	3094		
387+00.00 R 2	31.94	49.31	24.00	3224		
387+50.00 R 2	27.54	37.90	24.00	2468		
388+00.00 R 2	43.27	27.95	24.00	2217		
388+50.00 R 2	40.00	27.51	24.00	2269		
388+92.00 R 2	19.10	34.31	24.00	1532		
389+00.00 R 2	19.10	34.67	24.00	237		

Σ 25,048 SF

WA PFH 208-1(1)
 CAMP GRISDALE ROAD
 Mainline
 CLEARING REPORT

08/15/2007

STATION	CLEARING LT	DISTANCE RT	EXCEPTION WIDTH	AREA SF	SUBTOTAL SF	AREAS ACRES
389+50.00 R 2	43.42	38.92	24.00	2203		
390+00.00 R 2	44.10	40.42	24.00	2972		
390+50.00 R 2	48.32	47.12	24.00	3300		
391+00.00 R 2	49.15	38.33	24.00	3374	141934	3.2584 (ACCUM SF 1.956814.0000)
391+50.00 R 2	45.42	45.43	24.00	3259		
392+00.00 R 2	43.46	41.75	24.00	3202		
392+50.00 R 2	46.72	45.43	24.00	3235		
392+95.00 R 2	43.68	44.21	24.00	2971		
393+00.00 R 2	43.19	45.59	24.00	322		
393+50.00 R 2	42.31	56.21	24.00	3483		
393+55.00 R 2	42.00	56.95	24.00	374		
393+72.00 R 2	39.57	56.70	24.00	1252		
393+75.00 R 2	39.08	55.44	24.00	215		
393+87.50 R 2	39.66	51.10	24.00	859		
394+00.00 R 2	37.19	46.35	24.00	790		
394+50.00 R 2	40.05	46.02	24.00	3041		

Σ 234952 SF

WA PFH 208-1(1)
 CAMP GRISDALE ROAD
 Mainline
 CLEARING REPORT

08/15/2007

STATION	CLEARING LT	DISTANCE RT	EXCEPTION WIDTH	AREA SF	SUBTOTAL SF	AREAS ACRES
395+00.00 R 2	22.65	65.96	24.00	3168		
395+50.00 R 2	22.28	25.98	24.00	2222		
396+00.00 R 2	34.40	32.91	24.00	1690		
396+12.50 R 2	33.69	48.38	24.00	634		
396+25.00 R 2	33.76	52.02	24.00	750		
396+28.00 R 2	33.88	54.65	24.00	190		
396+41.00 R 2	32.91	57.29	24.00	850		
396+45.00 R 2	33.19	54.33	24.00	260		
396+50.00 R 2	33.54	54.01	24.00	318		
397+00.00 R 2	46.15	47.35	24.00	3327		
397+05.00 R 2	46.85	46.56	24.00	348		
397+41.00 R 2	31.00	45.60	24.00	2197		
397+50.00 R 2	31.00	45.82	24.00	475		
397+68.00 R 2	31.00	46.19	24.00	955		
397+95.00 R 2	31.00	47.08	24.00	1449		
398+00.00 R 2	54.78	47.27	24.00	331		

Σ 19,104 SF

Projects: WA PRA FVNP 100(1)... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Pro

Project Info Design Construction Account Team

Core Contract Status Progress Payment SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary Pay Notes Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 0 INS Pay Item Number: 20206-0000 Line Number: A 0160
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: SELECTIVE CLEARING AND GRUBBING (REMOVAL OF TRFF)

Acct	Contract Quantities				Revised Quantities		Probables		
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	25	\$300.00	SQYD	\$7,500.00	25	\$7,500.00	25	\$7,500.00	0.00
CONU1	25	\$300.00	SQYD	\$7,500.00	25	\$7,500.00	25	\$7,500.00	0.00

Pay Note Date*: 04-23-2014

Entries:

Pay Note Entry #1

Work Date Start Date*: 04-22-2014

Work Date End Date*: 04-22-2014

Location/Description*:

B I U

Removal of trees from STA 200+45 to 207+40

average tree cluster size 8/9 sq yd
 250 tree clusters
 250 x 8/9 = 222.222 sqyd

Be sure to confirm trees are outside of original clearing limits

CONU1 Main account Quantity: 222.222 SQYD

Remarks/Calculations:

B I U

*See attached layout documentation

CONU1 Main account Quantity: 222

Total Pay Note Quantity: 222 SQYD

Total Production Days: 1

Production Rate: 222 SQYD/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: Interim Final

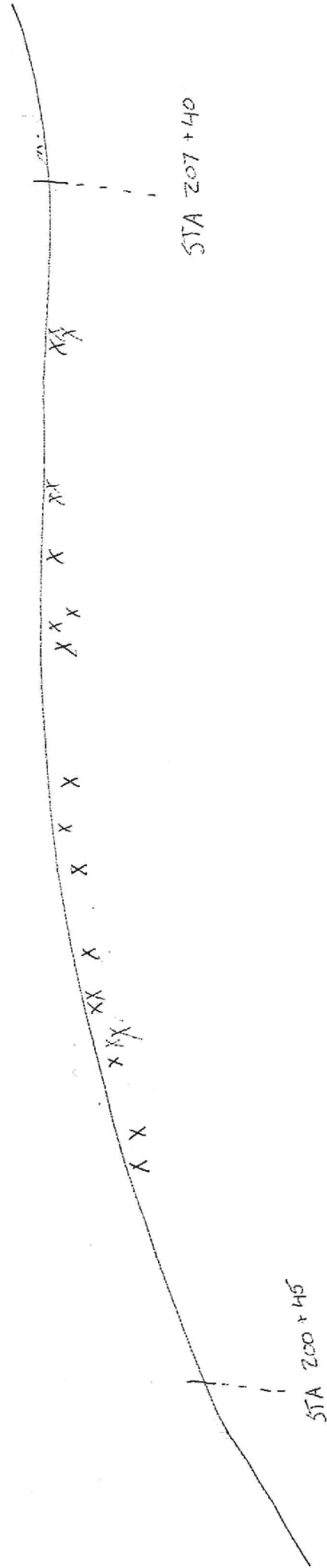
Supporting Documentation: File Name: 20206 Selective C and G Support.pdf

Reference:

B I U

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Project Name: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item No. 20206-0000 Selective Clearing & Grubbing
 Measurements and Calculations by: John Smith 7/06/2013



Area of
 X = tree clusters

250 clusters

avg cluster = 8 1/4 sq yd

$$250 \times 8 \frac{1}{4} = 2062.5 \text{ sq yd}$$

$$2062.5 \times \left(\frac{5280 \text{ ft}}{1 \text{ ac}} \right) = 10890000 \text{ sq ft}$$

Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Proj

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) **Project Name:** FORT VANCOUVER NATIONAL PARK **Contract Number:** DTFH-C2014 **States:** WA
 Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 10 INS **Pay Item Number:** 20303-1600 **Line Number:** A 0180
Period: 1 INS **Pay Item Type:** Normal pay item **Contract Mod #:**
Description: REMOVAL OF PAVEMENT, ASPHALT

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	800.000	\$10.00	SQYD	\$8,000.00	800.000	\$8,000.00	800.000	\$8,000.00	0.00
CON01	800.000	\$10.00	SQYD	\$8,000.00	800.000	\$8,000.00	800.000	\$8,000.00	0.00

Pay Note Date*: 09-30-2011

Entries:

Pay Note Entry #1

Work Date Start Date*: 09-26-2011

Work Date End Date*: 09-27-2011

Location/Description*:

B I U [Icons]

Removal of Pavement -Asphalt

STA
 1691+00 - 1695+00 RT 111.1
 1705+00 - 1707+00 RT 55.5
 1712+00 - 1713+00 LT 27.78
 1715+00 - 1718+00 LT 83.33

Total Square Yard = 277.71 SQYD

CON01 Main account Quantity:
 277.7 SQYD

Remarks/Calculations:

B I U [Icons]

*See attached documentation/calculations

CON01 Main account Quantity: 277.700

Total Pay Note Quantity: 277.700 SQYD
 Total Production Days: 2
 Production Rate: 138.850 SQYD/Day
 Measured By*: Bob COE
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final

Supporting Documentation: File Name: 20303_removal_of_pavement_-_asphalt_support.pdf

Reference:

B I U [Icons]

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Project Name: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item No. **20303-1600 Removal of Pavement -Asphalt**
 Measurements by: John Smith 7/06/2013
 Calculations by: Fred Jones 7/07/2013

	Begin Sta	End Sta	Side	Length	Width	Area - SF	Area - SY
KUM ✓	1715+00	1718+00	LT	300	2.5	750	83.33
✓	1691+00	1695+00	RT	400	2.5	1,000	111.11
✓	1705+00	1707+00	RT	200	2.5	500	55.56
✓	1712+00	1713+00	LT	100	2.5	250	27.78

277.71 RF
 SQYD

Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Proj

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 65 INS Pay Item Number: 20401-0000 Line Number: A 0200
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: ROADWAY EXCAVATION

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	40,500.000	\$23.00	CUYD	\$931,500.00	40,500.000	\$931,500.00	40,500.000	\$931,500.00	0.00
CON01	40,500.000	\$23.00	CUYD	\$931,500.00	40,500.000	\$931,500.00	40,500.000	\$931,500.00	0.00

Pay Note Date*: 02-12-2014

Entries:

Pay Note Entry #1

Work Date Start Date*: 02-03-2014

Work Date End Date*: 02-06-2015

Location/Description*:
 105+366 LT to 105+381.5 LT : 43.20 CUYD

CON01 Main account Quantity:
 43.2 CUYD

Remarks/Calculations:
 see attached documents for sliver excavation:
 (a) differential leveling survey results
 (b) scaled cross section notes
 (c) average end area calculations
 (d) irregular polygon area calculations

CON01 Main account Quantity: 43.200

Total Pay Note Quantity: 43.200 CUYD
 Total Production Days: 0
 Production Rate: 0.000 CUYD/Day
 Measured By*: Doug J Worley
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final

Supporting Documentation: File Name: 20401 Roadway Exc example 1 Support.pdf

Reference:

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Project

Beartooth Highway

Sheet

1
of 6

Detail

STA 105+366 → 381.5 left, Sliver Excavation

9/5/08

Item

Project No. 20401

By T. Erickson
M. Clark

SHOT	Bst	HI	FS	Elev.
STA 105+380 Hub	1.16 ✓			95.98 ✓
			97.14 ✓	
STA 105+366 Back			1.55 ✓	95.59 ✓
STA 105+366 Crest			1.77 ✓	95.37 ✓
STA 105+366 Toe			4.70 ✓	92.44 ✓
STA 105+370 Back			1.21 ✓	95.93 ✓
STA 105+370 Crest			1.42 ✓	95.72 ✓
STA 105+370 Toe			4.62 ✓	92.52 ✓
STA 105+375 Back			1.10 ✓	96.04 ✓
STA 105+375 Crest			1.10 ✓	96.04 ✓
STA 105+375 Toe			4.53 ✓	92.61 ✓
STA 105+380 Back			1.28 ✓	95.86 ✓
STA 105+380 Crest			1.35 ✓	95.79 ✓
STA 105+380 Toe			4.43 ✓	92.71 ✓

✓ John Steuby
9/10/08

Project	Bear Tooth Highway
Detail	STA 105+266 → 381.5 Left, Sliver Excavation

Sheet	2
of	6

9/5/08

Item
Project No. 20401

By T. Erickson
M. Clark

SHOT	BST	HT	FS-	Elev
		97.14 ✓		
STA 105+381.5 Back.			1.61 ✓	95.53 ✓
STA 105+381.5 Crest			1.94 ✓	95.20 ✓
STA 105+381.5 Toe			4.35 ✓	92.79 ✓

✓ John H. Steuby
9/10/08

Project Beartooth Highway
 Detail STA 105+366 → 381.5 Left, Sliver Excavation

Sheet 3
 of 6

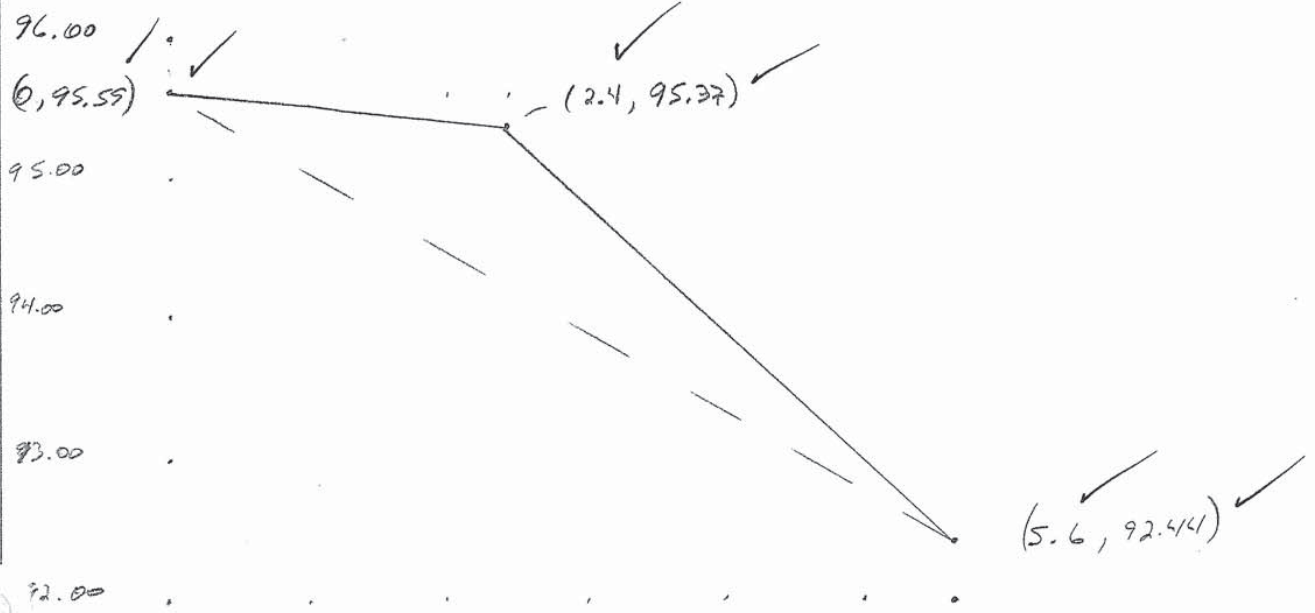
9/5/08

Item
 Project No. 20401

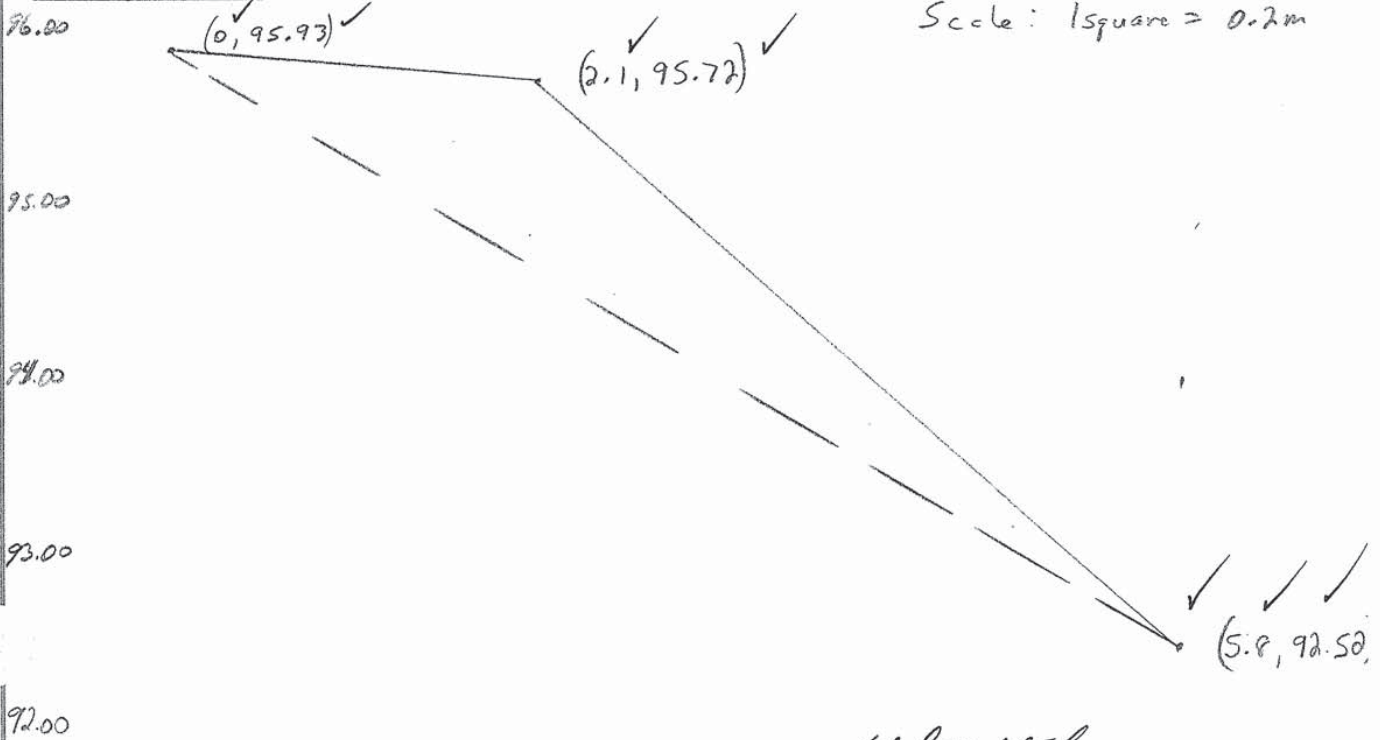
By T. Erickson

Scale: 1 square = 0.25m

STA 105+366



STA 105+370



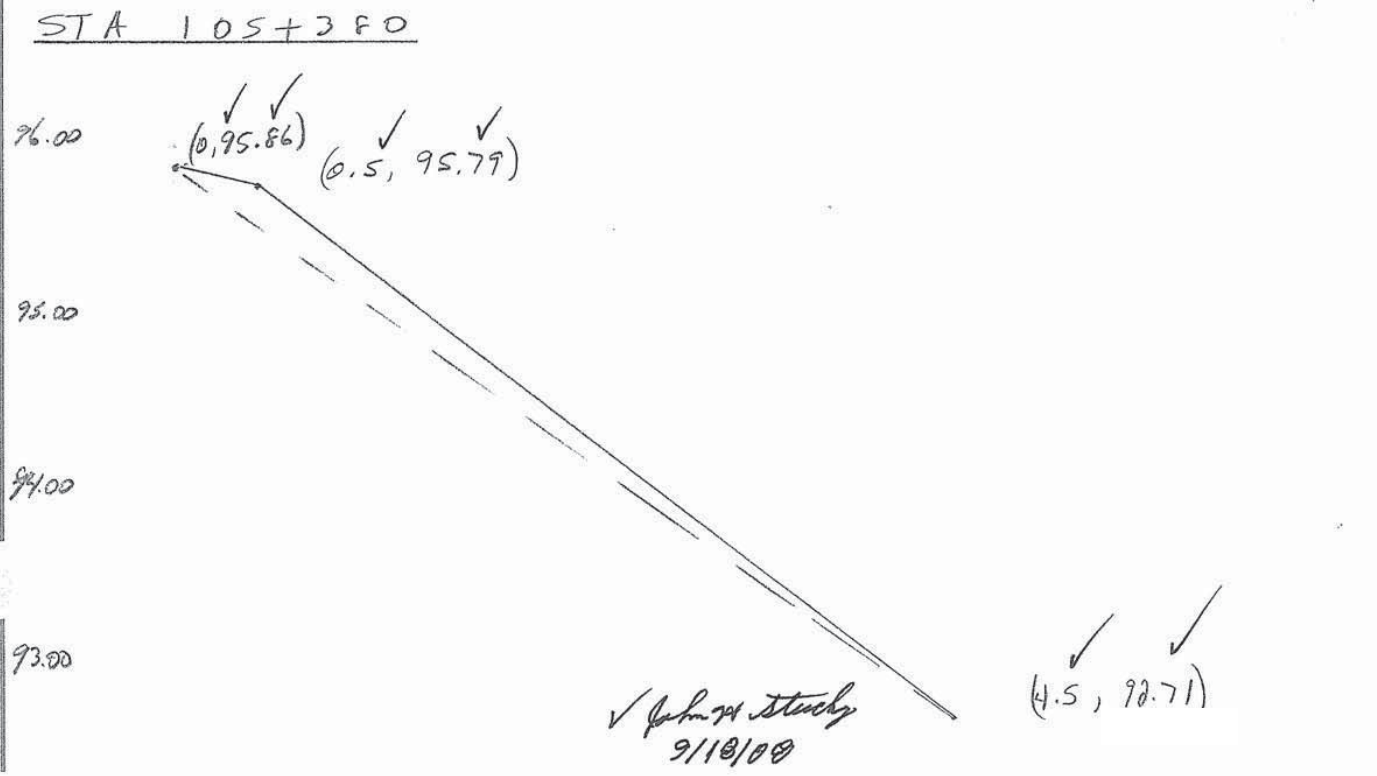
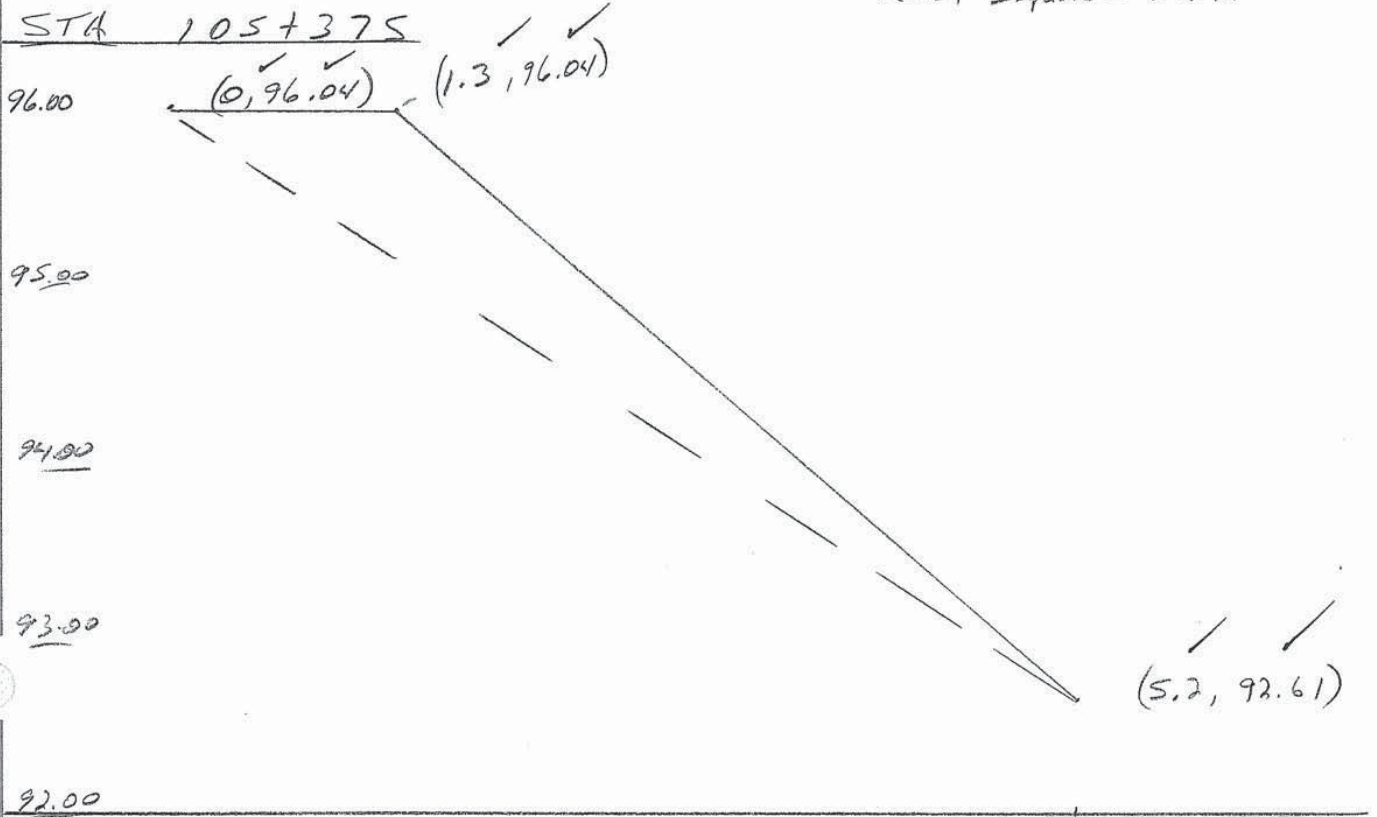
✓ John H. Steuby
 9/18/08

Project	Bear Tooth Highway
Detail	STA 105+366 → 381.5 left. Sliver Excavation
Item	
Project No.	20401
By	T. Erickson

Sheet	4
of	6

9/5/08

Scale: 1 Square = 0.2 m



Project	<i>Beartooth Highway</i>
Detail	<i>STA 105+366 → 381.5 Left, Sliver Excavation</i>

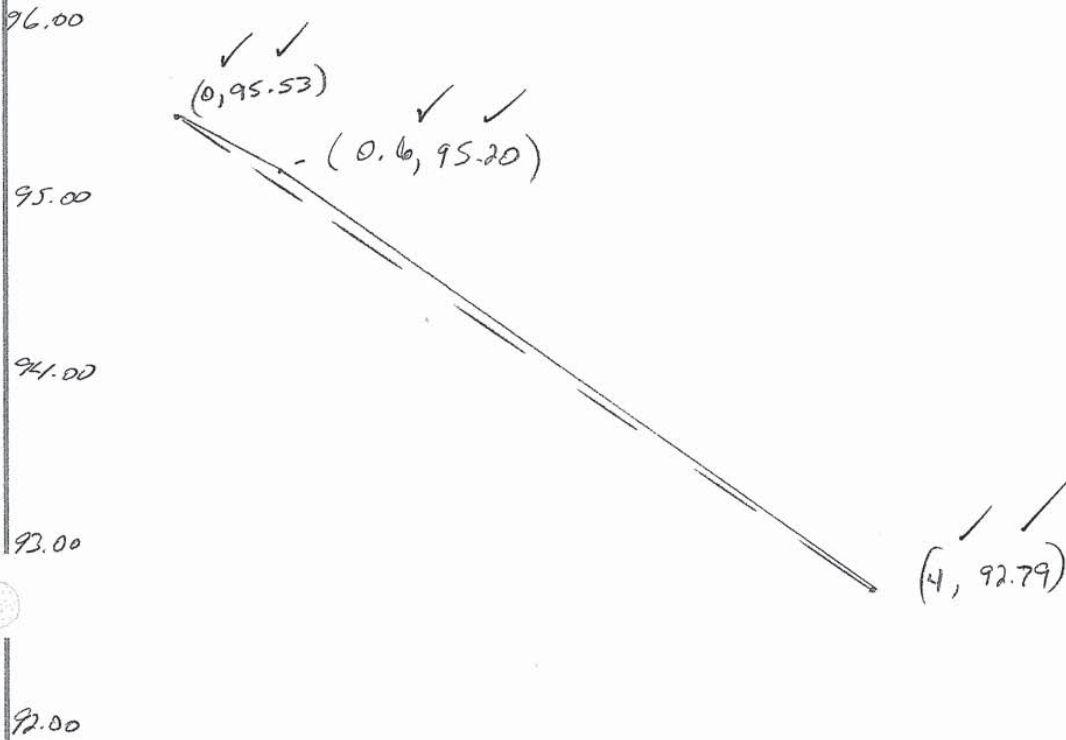
Sheet	<i>5</i>
of	<i>6</i>

9/5/08

From
Project No. *20401*

By *T. Erickson*

STA 105+381.5



✓ John W. Stucky
9/10/08

Project	Beartooth Highway
Detail	STA 105+366 to 381.5 left, Sliver Excavation

Sheet	6
of	6

9/5/08

Itan
Project No. 20401

By T. Erickson

STATION	DIST (m)	Area (m ²)	Avg. Area (m ²)	Volume (m ³)
105+366 ✓		3.16 ✓		
	4 ✓		3.07 ✓	12.28 ✓
105+370 ✓		2.97 ✓		
	5 ✓		2.60 ✓	13.00 ✓
105+375 ✓		2.23 ✓		
	5 ✓		1.43 ✓	7.15 ✓
105+380 ✓		0.63 ✓		
	1.5 ✓		0.40 ✓	0.60 ✓
105+381.5 ✓		0.16 ✓		
TOTAL VOLUME =				33.03 ✓ m ³

conversion: 33.03 m³ * 1.30795 CUYD/m³ = 43.20 CUYD

Total Volume =	43.20	CUYD
----------------	-------	------

✓ John H. Stueby
9/18/08

APPENDIX 'A'

Guidelines for percentage payments for partially complete work

<u>Description</u>	<u>Allowance (Cumulative)</u>
Clearing and Grubbing	
• Felled and slashed	35
• Bucked and piled (slashings, brush and logs)	60
• Grubbed	75
• Burned or chipped and removed	98
• Substantially complete including cleanup	100
Excavation and Embankment	
• Pioneered	5
• Drilled	20
• Blasted	35
• Roughed out to grade	85
• Roadbed finished to grade	90
• Slopes seeded	98
• Substantially complete including cleanup	100
Structural Excavation	
• Excavation complete	85
• Backfill complete	98
• Substantially complete including cleanup	100
Aggregate Courses	
• Crushed and stockpiled onsite	50
• Placed on roadway	80
• Spread, compacted and tested	98
• Substantially complete including cleanup	100
Asphalt Pavements	
• Aggregates crushed and stockpiled onsite	50
• Placed, compacted and tested	98
• Substantially complete including cleanup	100

Checked By: *John W. [Signature]*
Date: 11/13/09

Contractor Generated Notes

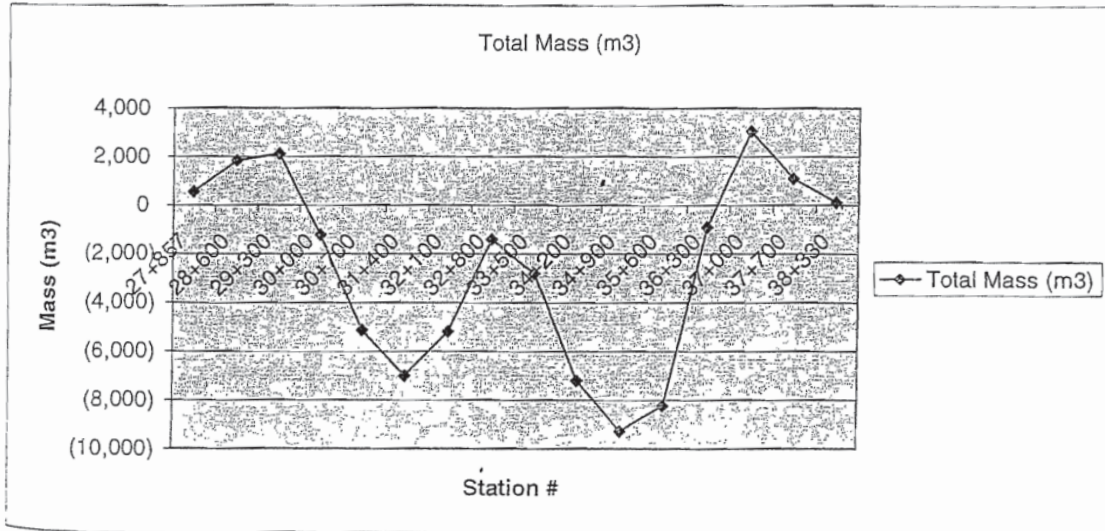
Grand Teton Park North Park Road Phase II

Station	Total Excavation (m3)	Top Soil Ex	Unusable Mat Ex	Embankment (m3)	Mass @ Station (m3)	Total Mass (m3)
27+857	1,186	252		388	546	546
28+600	2,364	250	250	572	1,292	1,838
29+300	1,879	216	287	1,108	268	2,106
30+000	1,006	287	181	3,860	(3,322)	(1,216)
30+700	1,095	448		4,559	(3,912)	(5,128)
31+400	1,418	493		2,805	(1,880)	(7,008)
32+100	2,799	580		409	1,810	(5,198)
32+800	5,529	203	1,340	188	3,798	(1,400)
33+500	6,929	762	6,167	1,405	(1,405)	(2,805)
34+200	1,627	617	1,010	4,397	(4,397)	(7,202)
34+900	6,530	613	5,917	2,078	(2,078)	(9,280)
35+600	9,432	639		11	1,050	(8,230)
36+300	8,140	464		45	7,331	(899)
37+000	5,047	524		46	3,946	3,047
37+700	1,813	521		48	(1,956)	1,091
38+330	303	189		1,077	(963)	128

Total: 24,205 m3
= 31,659 CUYD

Station	Total Mass (m3)
27+857	546
28+600	1,838
29+300	2,106
30+000	(1,216)
30+700	(5,128)
31+400	(7,008)
32+100	(5,198)
32+800	(1,400)
33+500	(2,805)
34+200	(7,202)
34+900	(9,280)
35+600	(8,230)
36+300	(899)
37+000	3,047
37+700	1,091
38+330	128

FHWA project staff should provide a note to reflect that calculations are accurate and reflect the original design or adjusted quantities



Checked By: *John W. [Signature]*
Date: 11/13/09

20402 Subexcavation Example 1

Projects: WA PRA FVNP 100(1)... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Proj

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) **Project Name:** FORT VANCOUVER NATIONAL PARK **Contract Number:** DTFH-C2014 **States:** WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 19 INS **Pay Item Number:** 20402-0000 **Line Number:** A 0220
Period: 1 INS **Pay Item Type:** Normal pay item **Contract Mod #:**
Description: SUBEXCAVATION

Acct	Contract Quantities				Revised Quantities		Probables		
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	4,000	\$15.00	CUYD	\$60,000.00	4,000	\$60,000.00	4,000	\$60,000.00	0.00
CON01	4,000	\$15.00	CUYD	\$60,000.00	4,000	\$60,000.00	4,000	\$60,000.00	0.00

Pay Note Date*: 09-12-2012

Entries:

Pay Note Entry #1

Work Date Start Date*: 09-07-2012

Work Date End Date*: 03-11-2014

Location/Description*:
 Subexcavation Total = 1883.27 CUYD

Measure Subexcavation by the cubic yard (cubic meter) in its original position.

CON01 Main account Quantity: 1883.3 CUYD

Remarks/Calculations:
 *See attached documetation of measurement & calculations

CON01 Main account Quantity: 1,883

Total Pay Note Quantity: 1,883 CUYD

Total Production Days: 5

Production Rate: 377 CUYD/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: Interim Final

Supporting Documentation:
 File Name: 204_Subexcavation_support.pdf

Reference:

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

SUBEXCAVATION Calculations

STA	WIDTH	AVE WIDTH	LENGTH (FT)	AREA (FT ²)	DEPTH SUB EX	VOLUME SUB EX
1675+30	25.76					
1675+50	28.58	27.17	20.00	543.40	3.58	1945.37
1676+00	28.58	28.58	50.00	1429.00	3.58	5115.82
1676+00	43.80	36.19				
1676+26.01	63.52	53.66	26.01	1395.70	3.58	4996.59
1676+50	61.52	62.52	23.99	1499.85	3.58	5369.48
1677+00	57.95	59.74	50.00	2986.75	3.58	10692.57
1677+13.51	55.58	56.77	13.51	766.90	3.58	2745.48
1677+50	52.44	54.01	36.49	1970.82	3.58	7055.55
1677+60	59.46	55.95	10.00	559.50	3.58	2003.01
1678+00	46.91	53.19	40.00	2127.40	3.58	7616.09
1678+20	45.50	46.21	20.00	924.10	3.58	3308.28
TOTALS			290.00	14203.42		50848.25

SUBEXCAVATION = 50848.25 27.00 1883.27 CUYD ✓

Project Name: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item No. **20402-0000 SUBEXCAVATION**
 Field Measurements by: Fred Smith 9/06/2012
 Calculations by: John B. Contractor 9/07/2012

Keleto 9/13/2012
[Signature] 9/13/12

20402 Subexcavation Example 2

Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Proj

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 67 INS Pay Item Number: 20402-0000 Line Number: A 0220
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: SUBEXCAVATION

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	4,000	\$15.00	CUYD	\$60,000.00	4,000	\$60,000.00	4,000	\$60,000.00	0.00
CON01	4,000	\$15.00	CUYD	\$60,000.00	4,000	\$60,000.00	4,000	\$60,000.00	0.00

Pay Note Date*: 02-12-2014

Entries:

Pay Note Entry #1

Work Date Start Date*: 02-03-2014

Work Date End Date*: 02-07-2014

Location/Description*:
 101+440 to 101+680 = 3452.20 CUYD

CON01 Main account Quantity:
 3452.2 CUYD

Remarks/Calculations:
 see attached documentaiothn:
 (a) average end area calculations
 (b) cross-section end area reports
 (c) irregular polygon area calculations

CON01 Main account Quantity: 3,452.2

Total Pay Note Quantity: 3,452.2 CUYD
 Total Production Days: 0
 Production Rate: 0 CUYD/Day
 Measured By*: Doug J Worley
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final

Supporting Documentation:
 File Name:
 204_Subexcavation_example_2_support.pdf

Reference:

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)



COMPUTATIONS		Project #: <u>20402</u>
Client Name:		Sheet <u>1</u> of <u>1</u>
Project Name: <u>Type I Sub-Ex STA 101+440-101+680</u>	Prepared by: <u>T. Erickson</u>	Date: <u>6/29/09</u>
Checked by:		Date:

<u>STA</u>	<u>DIST</u>	<u>Area (m²)</u> ✓	<u>Avg Area (m²)</u>	<u>Volume (m³)</u>
<u>101+440</u>	<u>20 m</u>	<u>14.86</u>	<u>12.79</u>	<u>255.8</u>
<u>101+460</u>	<u>20</u>	<u>10.72</u>	<u>10.52</u>	<u>210.4</u>
<u>101+480</u>	<u>20</u>	<u>10.31</u>	<u>10.77</u>	<u>215.4</u>
<u>101+500</u>	<u>20</u>	<u>11.22</u>	<u>11.09</u>	<u>221.8</u>
<u>101+520</u>	<u>20</u>	<u>10.96</u>	<u>10.37</u>	<u>207.4</u>
<u>101+540</u>	<u>20</u>	<u>9.78</u>	<u>9.33</u>	<u>186.6</u>
<u>+560</u>	<u>20</u>	<u>8.88</u>	<u>9.48</u>	<u>189.6</u>
<u>101+580</u>	<u>20</u>	<u>10.08</u>	<u>10.66</u>	<u>213.2</u>
<u>101+600</u>	<u>20</u>	<u>11.23</u>	<u>11.49</u>	<u>229.8</u>
<u>101+620</u>	<u>20</u>	<u>11.75</u>	<u>11.85</u>	<u>237</u>
<u>101+640</u>	<u>20</u>	<u>11.94</u>	<u>11.17</u>	<u>223.4</u>
<u>101+660</u>	<u>20</u>	<u>10.40</u>	<u>12.45</u>	<u>249</u>
<u>101+680</u>	<u>20</u>	<u>14.50</u>		

RECEIVED
 JUL 01 2009
 BY PROJECT MANAGER

TOTAL = 2639.4 m³
 conversion: 2639.4 m³ * 1.30795 CUYD/m³
Total Volume = 3453.20 CUYD

MFH ✓

CROSS-SECTION END AREAS REPORT

Project: MT PFH 59-1(2) NE Entrance Road
 Description: Sub cut *Type 1*

Station: 1014+60.00

101460

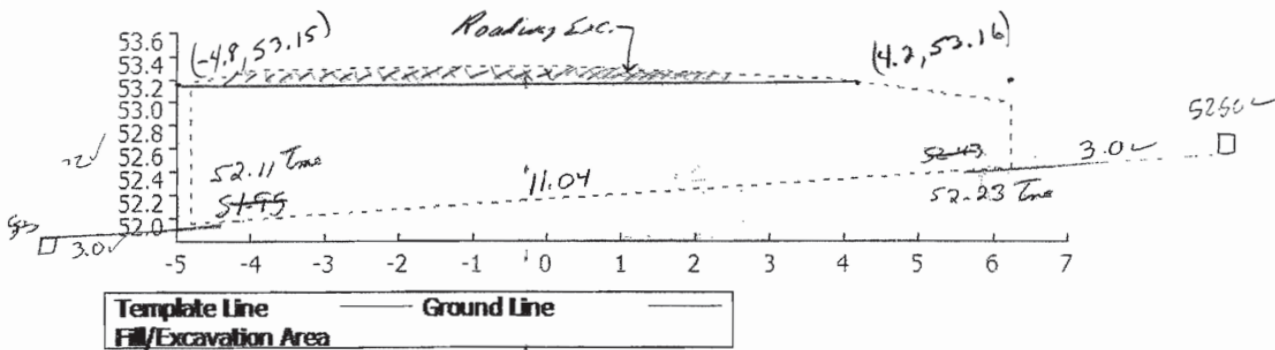
(-)Left Elevation(m) (+)Right
 Offset Distance(m)

TEMPLATE LINE <i>52.11 Line</i>		<i>52.23 Line</i>		
53.170	51.950	52.160 ✓	52.430	53.000
-4.800	-4.800	0.000	6.240	6.240

GROUND LINE				
53.170	53.280	53.310	53.200	53.000
-4.800	-3.880	0.000	3.830	6.240

CATCHES AND ZERO-ZEROS	
53.170 ✓	
-4.800 ✓	

Cut Area (sq. m) : ~~11.504~~ ✓ *10.72* Fill Area (sq. m) : 0.000



Projects: WA PRA FVNP 100(1)... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Proj

Project Info Design **Construction** Account Team
Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 20 INS Pay Item Number: 20411-0000 Line Number: A 0240
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: SELECT BORROW

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	2,500.0	\$12.00	TON	\$30,000.00	2,500.0	\$30,000.00	2,500.0	\$30,000.00	0.00
CON01	2,500.0	\$12.00	TON	\$30,000.00	2,500.0	\$30,000.00	2,500.0	\$30,000.00	0.00

Pay Note Date*: 07-13-2009 select clear

Entries:

Pay Note Entry #1

Work Date Start Date*: 07-08-2009 select clear

Work Date End Date*: 07-08-2009 select clear

Location/Description*:
 Subexcavation backfill from station 104+200 to station 104+220.

Do not measure borrow excavation until suitable roadway excavation is completed.

When measuring by the cubic yard (cubic meter) measure in its original position.
 If borrow excavation is measured by the cubic yard (cubic meter) in-place, take initial cross-sections of the ground surface after stripping overburden. Upon completion of excavation and after the borrow source waste material is returned to the source, retake cross-sections before replacing the overburden.

CON01 Main account Quantity: 115.7 TON

Remarks/Calculations:
 See attached:
 Daily Mass Record
 Street Delivery Report

Delete Add Entry

CON01 Main account Quantity: 115.7

Total Pay Note Quantity: 115.7 TON

Total Production Days: 1

Production Rate: 115.7 TON/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: Interim Final

Supporting Documentation:
 File Name: 20406 Example.pdf
Delete Add Document

Reference:
 See attached documentation:
 (a) daily mass record
 (b) street delivery report - spread report

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Proj

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 35 INS Pay Item Number: 20701-0300 Line Number: A 0260
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: EARTHWORK GEOTEXTILE, TYPE I-C

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	1,500	\$5.50	SQYD	\$8,250.00	1,500	\$8,250.00	1,500	\$8,250.00	0.00
CON01	1,500	\$5.50	SQYD	\$8,250.00	1,500	\$8,250.00	1,500	\$8,250.00	0.00

Pay Note Date*: 04-18-2014

Entries:

Pay Note Entry #1

Work Date Start Date*: 04-17-2014

Work Date End Date*: 04-17-2014

Location/Description*:
 Crew installed Earthwork Geotextile, Type I-C from 35+10 to 35+90
 Total Length = 80ft
 Width of fabric = 20ft
 Depth of trench = 3ft x 2 sides = 6ft
 Total installed: (80ft x 20ft) + (80ft x 6ft) = 2080 sqft 2080 sqft x (1 sqyd / 9 sqft) = 231.11

CON01 Main account Quantity:
 231.1 SQYD

Remarks/Calculations:
 *See attached documentation/calculations

Do not pay for fabric overlap

CON01 Main account Quantity: 231.1

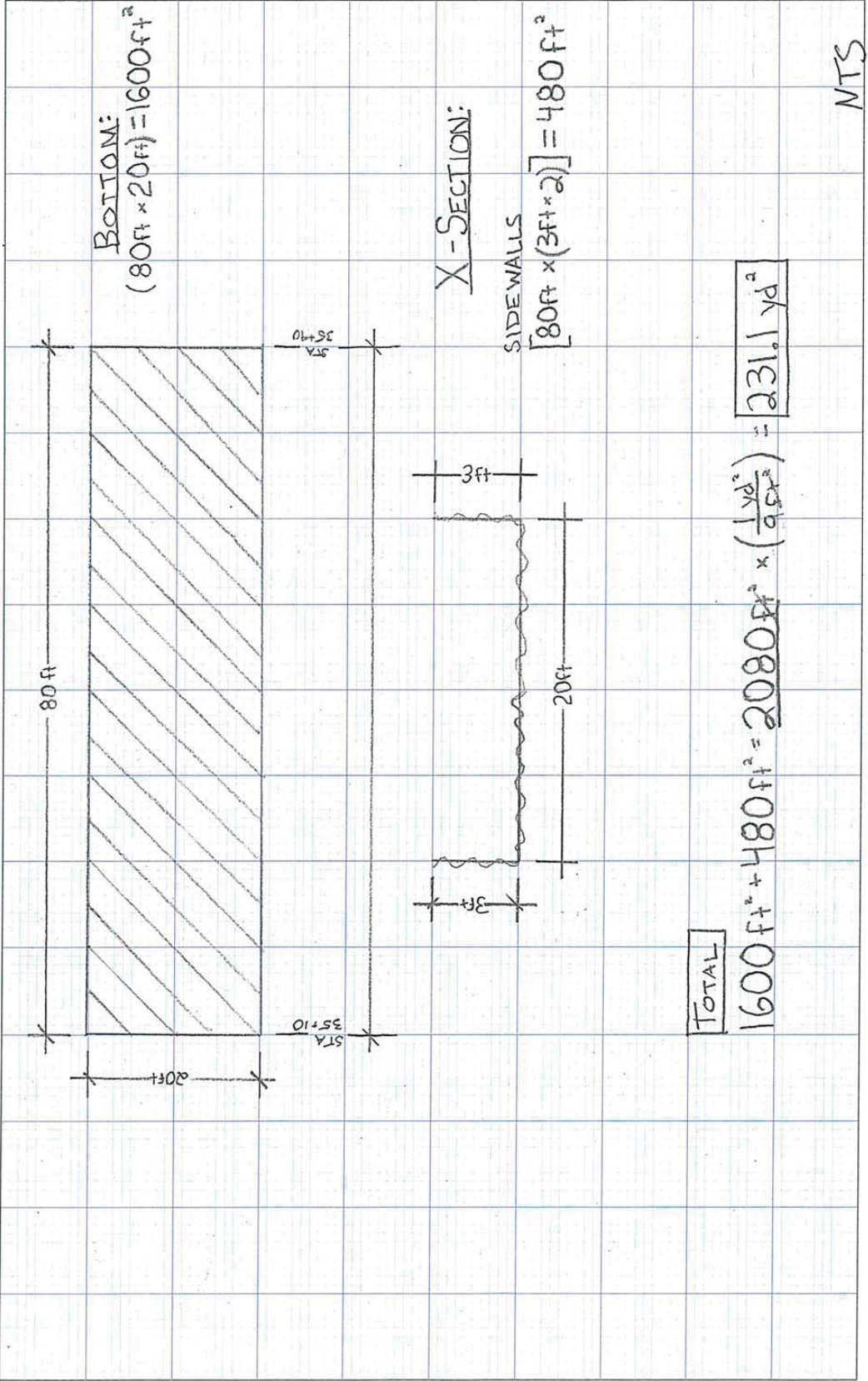
Total Pay Note Quantity: 231.1 SQYD
 Total Production Days: 1
 Production Rate: 231.1 SQYD/Day
 Measured By*: Bob COE
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final

Supporting Documentation:
 File Name: 207_Example.pdf

Reference:

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Project Name: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item No. 20701-0300 Earthwork Geotextile, Type 1-C
 Field Measurements and Calculations by: John Smith 7/06/2013



Project Name: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item No. **21101-100 Roadway Obliteration**
 Roadway Oblit Stations 1970+50 and 1974+00
 Field Measurements by: Fred Smith 6/20/2012
 Calculations by: John B. Contractor Jones 6/24/2012

Station	Width	Length	Horizontal Increment (feet)	Average Area (ft ²)
1970+50	0.00	0.00		
			50.00	87.50
1971+00	3.50	50.00		
			50.00	262.50
1971+50	7.00	100.00		
			50.00	437.50
1972+00	10.50	150.00		
			50.00	612.50
1972+50	14.00	200.00		
			50.00	725.00
1973+00	15.00	250.00		
			50.00	762.50
1973+50	15.50	300.00		
			50.00	775.00
1974+00	15.50	350.00		
		Totals:	350	3663 ft ²
		checks	350	406.9 yd ²

amount removed on June 12 2012

taper runs from the edge of the shoulder to the edge of existing pavement at a rate of 4:1

Length of b 62 feet
 Length of c 15.5 feet
 Area to be 480.5 ft²
 53.39 yd² amount removed approx June 19, 2012

Total area 460.3 yd² ← ✓ JBR

Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#) Return To Proj

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

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* indicates a required field

FHWA Pay Note

Pay Note: 38 INS Pay Item Number: 25101-3000 Line Number: A 0300
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: **PLACED RIPRAP, CLASS 3**

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	250	\$55.00	CUYD	\$13,750.00	250	\$13,750.00	250	\$13,750.00	0.00
CON01	250	\$55.00	CUYD	\$13,750.00	250	\$13,750.00	250	\$13,750.00	0.00

Pay Note Date*: 11-15-2011

Entries:

Pay Note Entry #1

Work Date Start Date*: 11-14-2011

Work Date End Date*: 11-14-2011

Location/Description*:
 Placed Riprap, Class 3
 19+32: 10yd long x 2.5yd wide x 0.5yd thick = 12.50 CUYD
 20+14: 7yd long x 2yd wide x 0.3yd thick = 4.20 CUYD
 Total = 16.70 CUYD

CON01 Main account Quantity:
 16.7 CUYD

Remarks/Calculations:
 *See attached placed riprap detail and volumes

CON01 Main account Quantity: 16.7

Total Pay Note Quantity: 16.7 CUYD
 Total Production Days: 1
 Production Rate: 16.7 CUYD/Day
 Measured By*: Bob COE
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final

Supporting Documentation:
 File Name: 25101 Placed Rip Rap Class 3 example1 support.pdf

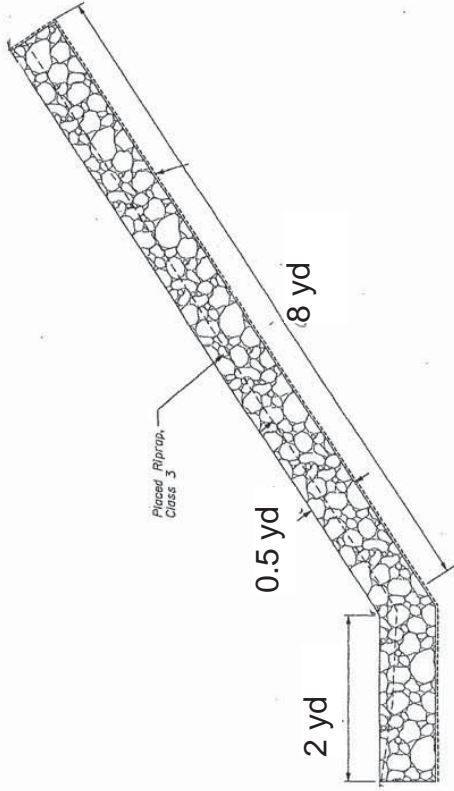
Reference:

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

STATE	PROJECT
OR	PIN 244-111

Project Name: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item No. **25101-0300 Placed Rip Rap, Class 3**
 Station 19+32 @ 20' left of center line
 Field Measurements and Calculations by: John Smith 11/03/2007

Sta 19+32
 H: 12.5 CU YD



PLACED RIPRAP,
 CLASS 3

Width 2.5 yd

John Smith

RECEIVED
 NOV 09 2007
 BY PROJECT ENGINEER

PLACED RIPRAP, CLASS 3

12/2/2005 Stanley Chang 12/2/2005 Checked by: 12/2/2005 Michael Smith 12/2/2005 Designed by: 12/2/2005 4:18:19 PM

Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Proj

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

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FHWA Pay Note

Pay Note: 68 INS Pay Item Number: 25101-3000 Line Number: A 0300
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: PLACED RIPRAP, CLASS 3

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	250	\$55.00	CUYD	\$13,750.00	250	\$13,750.00	250	\$13,750.00	0.00
CON01	250	\$55.00	CUYD	\$13,750.00	250	\$13,750.00	250	\$13,750.00	0.00

Pay Note Date*: 02-12-2014

Entries:

Pay Note Entry #1

Work Date Start Date*: 02-03-2014

Work Date End Date*: 02-07-2014

Location/Description*:
 Class 3 Rip Rap placement at 104+300 LT to 104+447 LT: 2503.20 CUYD

CON01 Main account Quantity:
 2503.2 CUYD

Remarks/Calculations:
 see attached documnetation:
 (a) average end area hand calculation sheet

CON01 Main account Quantity: 2,503.2

Total Pay Note Quantity: 2,503.2 CUYD
 Total Production Days: 0
 Production Rate: 0 CUYD/Day
 Measured By*: Doug J Worley
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final

Supporting Documentation:
 File Name: 25101 Placed Rip Rap Class 3 example 2 support.pdf

Reference:

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Project Name: Fort Vancouver National Park
 Project Number: WA PRA FVNP 100(1)
 Item No. **25101-3000 Placed Rip Rap, Class 3**
 Placed: STA 104+300 to 104+447
 Field Measurements and calcs by: John Smith 8/30/2008

Sheet
 /
 of /

STA	DIST (yd)	SLOPE LENGTH (yd)	Average SLOPE LENGTH (yd)	DEPTH (yd)	Volume (CUYD)
104+300		6.6 m -			
	10 ✓		12 ✓	1 ✓	120 ✓
104+310		17.4 m -			
	10 ✓		21 ✓	2 ✓	210 ✓
104+320		24.6 -			
	20 ✓		23.3 ✓	1 ✓	466 ✓
104+340		22 -			
	20 ✓		20.6 ✓	1 ✓	412 ✓
104+360		19.2 -			
	20 ✓		20.6 ✓	1 ✓	412 ✓
104+380		22 -			
	21 ✓		18.2 ✓	1 ✓	382.2 ✓
104+401		14.4 -			
	20 ✓		12.95 ✓	1 ✓	259 ✓
104+421 (Klusters Driveway)		11.5 -			
	20 ✓		10 ✓	1 ✓	200 ✓
104+441 (Klusters Driveway)		8.5 -			
	6 ✓		7 ✓	1 ✓	42 ✓
104+447 (Klusters Driveway)		5.5 -			
					2503.2 CUYD ✓

In order to check the As-Builts when the project is complete, these quantities should also have a reference to center line.

John W. Smith
 9/2/08

Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Proj

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) **Project Name:** FORT VANCOUVER NATIONAL PARK **Contract Number:** DTFH-C2014 **States:** WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 37 INS **Pay Item Number:** 25105-4000 **Line Number:** A 0320
Period: 1 INS **Pay Item Type:** Normal pay item **Contract Mod #:**
Description: KEYED RIPRAP, CLASS 4

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	3,500	\$45.00	CUYD	\$157,500.00	3,500	\$157,500.00	3,500	\$157,500.00	0.00
CON01	3,500	\$45.00	CUYD	\$157,500.00	3,500	\$157,500.00	3,500	\$157,500.00	0.00

Pay Note Date*: 05-15-2012

Entries:

Pay Note Entry #1

Work Date Start Date*: 05-14-2012

Work Date End Date*: 05-14-2012

Location/Description*:

B I U

STA 1+005 - End Section
Area Volume = 215.00 CUYD

STA 1+015
Area Volume = 729.30 CUYD

STA 1+030
Area Volume = 789.30 CUYD

STA 1+045
Area Volume = 695.30 CUYD

STA 1+060
Area Volume = 208.50 CUYD

STA 1+070 - End Section
Total = 2637.40 CUYD

CON01 Main account Quantity:
2637.4 CUYD

Remarks/Calculations:

B I U

*See attached cross-section + average end area calculation spreadsheet

CON01 Main account Quantity: 2,637.4

Total Pay Note Quantity: 2,637.4 CUYD

Total Production Days: 1

Production Rate: 2,637.4 CUYD/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: Interim Final

Supporting Documentation: File Name: 25105_Keyed_Rip_Rap_Class_4_Support.pdf

Reference:

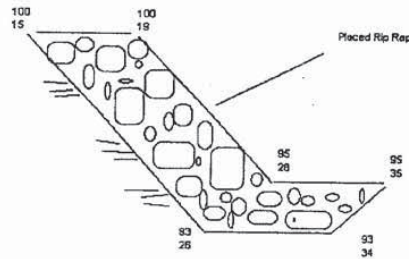
B I U

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Project Name: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item No. **25105-4000 Keyed Rip Rap, Class 4**
 Field Measurements and Calculations by: John Smith 5/01/2012

Criss-Cross average end area method using elevations and distance

Station									0.0			
1005	0.0 End section								0.0	Area	Volume	215.0
	0.0											
1015	100.0	100.0	95.0	95.0	93.0	93.0	100.0	100.0				
	15.0	19.0	28.0	35.0	34.0	26.0	15.0	19.0				
		1300.0	1520.0	570.0	-837.0	-1767.0	-700.0		43.0			
									Area	Volume	729.3	
1030	98.9	99.0	94.0	93.8	91.7	91.5	98.9	99.0				
	15.0	19.0	29.0	34.8	33.5	25.0	15.0	19.0				
		1386.0	1485.2	422.1	-898.7	-1692.8	-593.4		54.2			
									Area	Volume	789.3	
1045	100.0	100.0	95.0	95.0	93.0	93.0	100.0	100.0				
	15.5	20.0	28.0	36.0	35.0	24.5	15.5	20.0				
		1250.0	1520.0	665.0	-1069.5	-1813.5	-450.0		51.0			
									Area	Volume	695.3	
1060	101.3	101.7	96.2	96.2	94.5	94.5	101.3	101.7				
	15.0	19.0	28.0	35.0	34.0	26.0	15.0	19.0				
		1322.1	1539.2	577.2	-850.5	-1795.5	-709.1		41.7			
									Area	Volume	208.5	
1070	0.0 End section								0.0	Area		
	0.0								0.0	Area		
									Total	2637.4	CUYD	



Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Proj

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) **Project Name:** FORT VANCOUVER NATIONAL PARK **Contract Number:** DTFH-C2014 **States:** WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 21 INS **Pay Item Number:** 25125-0000 **Line Number:** A 0340
Period: 1 INS **Pay Item Type:** Normal pay item **Contract Mod #:**
Description: BOULDER

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	50.00	\$100.00	EACH	\$5,000.00	50.00	\$5,000.00	50.00	\$5,000.00	0.00
CON01	50.00	\$100.00	EACH	\$5,000.00	50.00	\$5,000.00	50.00	\$5,000.00	0.00

Pay Note Date*: 07-11-2014

Entries:

Pay Note Entry #1

Work Date Start Date*: 07-09-2014

Work Date End Date*: 07-09-2014

Location/Description*:

B I U

Crew placed 4 boulders as directed by FHWA in Rockefeller Turnout at STA 32+975 RT.

CON01 Main account Quantity:
 EACH

Remarks/Calculations:

B I U

CON01 Main account Quantity: 4.00

Total Pay Note Quantity: 4.00 EACH

Total Production Days:

Production Rate: 4 EACH/Day

Measured By*:

FHWA Inspector:

Contractor Inspector:

Interim/Final*: Interim Final

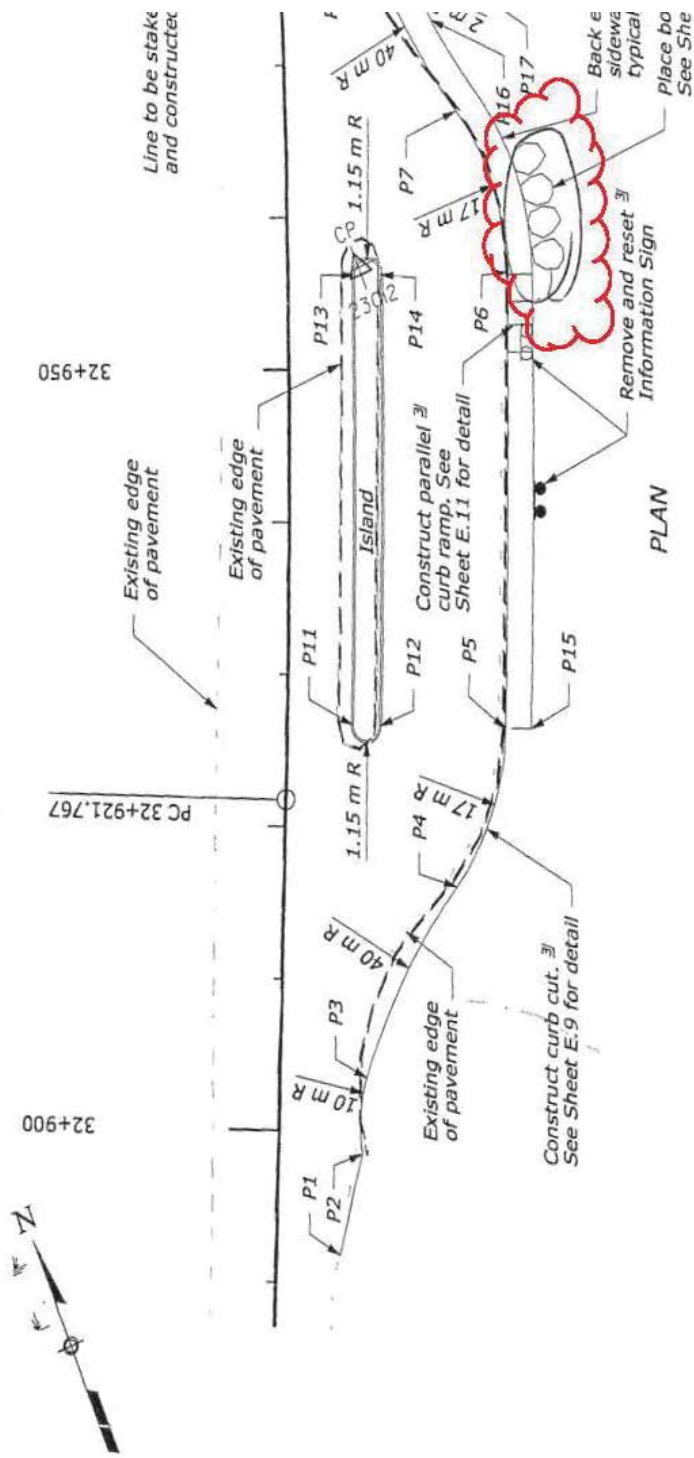
Supporting Documentation:
File Name:

Reference:

B I U

*See attached plan sheet

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)



LAYOUT INFORMATION

POINT	LOCATION	NOTE	POINT	LOCATION	NOTE	POINT	LOCATION	NOTE	POINT	LOCATION
P1	Sta. = 32+891.877 Offset = 4.900	Begin widening for turnout	P6	Sta. = 32+956.152 Offset = 16.800	Begin radius	P11	Sta. = 32+926.717 Offset = 4.900	Begin radius	P16	Sta. = 32+926.717 Offset = 3.
P2	Sta. = 32+898.568 Offset = 6.434	Begin radius	P7	Sta. = 32+966.649 Offset = 13.109	Begin radius	P12	Sta. = 32+926.718 Offset = 7.200	End radius	P17	Sta. = 32+926.718 Offset = 3.
P3	Sta. = 32+903.584 Offset = 6.652	Begin radius	P8	Sta. = 32+978.536 Offset = 6.729	Begin radius	P13	Sta. = 32+956.147 Offset = 4.900	Begin radius	P18	Sta. = 32+956.147 Offset = 3.
P4	Sta. = 32+916.325 Offset = 13.241	Begin radius	P9	Sta. = 32+985.027 Offset = 6.904	End radius	P14	Sta. = 32+956.146 Offset = 7.200	End radius	P19	Sta. = 32+956.146 Offset = 3.
P5	Sta. = 32+926.720 Offset = 16.800	End radius	P10	Sta. = 32+990.156 Offset = 4.900	End widening for turnout	P15	Sta. = 32+926.714 Offset = 18.750	Begin sidewalk	P20	Sta. = 32+926.714 Offset = 3.
									P21	Sta. = 32+926.714 Offset = 3.

Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Pr

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) **Project Name:** FORT VANCOUVER NATIONAL PARK **Contract Number:** DTFH-C2014 **States:** WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 46 INS **Pay Item Number:** 25210-0000 **Line Number:** A 0360
Period: 1 INS **Pay Item Type:** Normal pay item **Contract Mod #:**
Description: ROCKERY

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	150.0	\$225.00	SQYD	\$33,750.00	150.0	\$33,750.00	150.0	\$33,750.00	0.00
CON01	150.0	\$225.00	SQYD	\$33,750.00	150.0	\$33,750.00	150.0	\$33,750.00	0.00

Pay Note Date*: 09-27-2013

Entries: **Pay Note Entry #1**

Work Date Start Date*: 09-23-2013
 Work Date End Date*: 09-26-2013

Location/Description*:
 Rockery wall station 104+31 to station 104+61.1 (12' left offset from center line) = 134,270 m2 = 160,586 SQYD

CON01 Main account Quantity: 160.59 SQYD

Remarks/Calculations:
 *See attached documentation/calculations:
 (a) field cross section
 (b) irregular polygon area calculator sheets
 1 m2 = 1.19599 SQYD

CON01 Main account Quantity: 160.6

Total Pay Note Quantity: 160.6 SQYD
 Total Production Days: 4
 Production Rate: 40.15 SQYD/Day
 Measured By*: Bob COE
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final

Supporting Documentation: File Name: 25210_Rockery_Support.pdf

Reference:

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)



1015 S. Montana St.
P.O. Box 3588
Butte, MT 59701

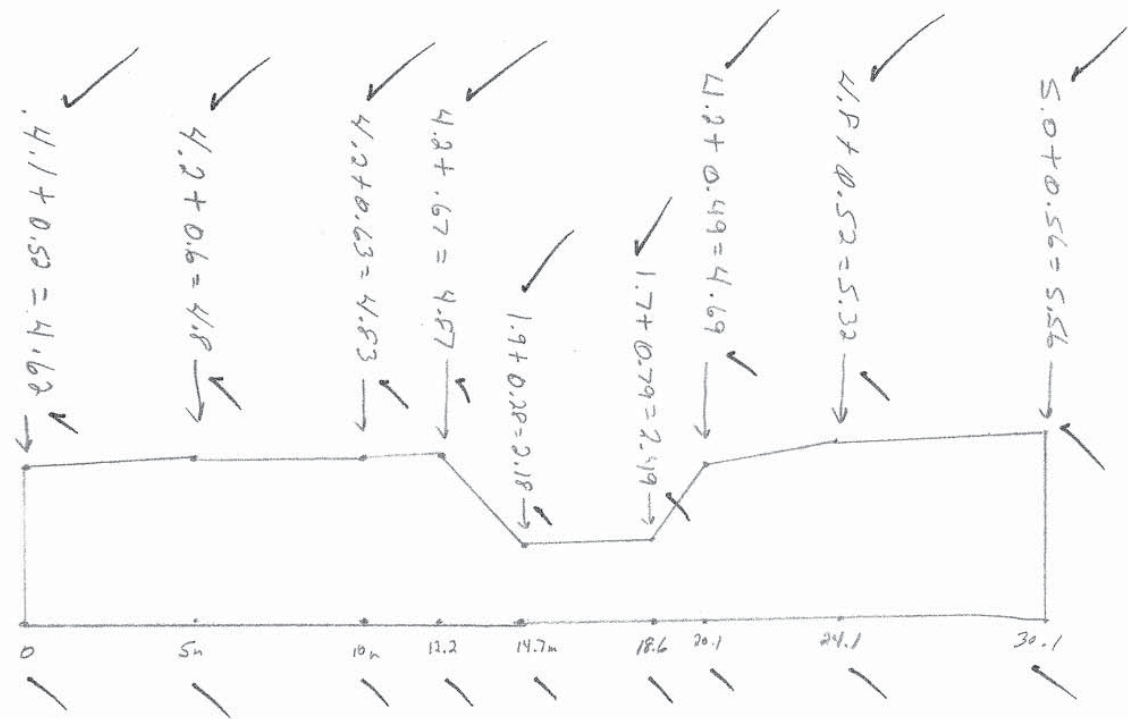
Project *Beartooth Highway*
Detail *Rockery Wall Square Footage*

Sheet *1*
of *1*

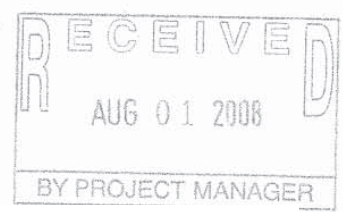
Date *7/31/08*

Project No. *26201*

By *T. Erickson*



AREA = $134.27 m^2$
Rounds to
Area = $134.3 m^2$



90/1/18 ✓
A. Dendane
by hand

Rockery Wall
West Area to 0 to 14.7 Meters

Irregular Polygon Area Calculator - Microsoft Internet Explorer

Address: http://www.analyzemath.com/geometry_calculators/irregular_polygon_area.html

Web: www.analyzemath.com

x	y
0	0
5	0
10	0
12.2	0
11.7	0
14.7	2.18
12.2	4.87
10	4.83
5	4.8
0	4.62

Area = 67.1075

RECEIVED
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More Online Geometry Calculators and Solvers

Home Page - Online Calculators - Trigonometry - Graphing - Precalculus Tutorials - Calculus Tutorials
Calculus Questions - Geometry Tutorials - Precalculus Aspiets - Applied Math - Precalculus Questions and Problems -
Equations, Systems and Inequalities - Geometry Calculators - Math Software - Elementary Statistics -
Author - e-mail

Updated: 25 November 2007 (A Dendane)

http://www.analyzemath.com/geometry.html

*8/11/08
V
John M. Stankov*

Rockery Wall
East Area to 14.7 to 30.1 Meters

Irrregular Polygon Area Calculator - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Go Google Go Settings

http://www.analyzemath.com/geometry_calculators/irregular_polygon_area.html

Web www.analyzemath.com
Google Search

n = 10

x	y
✓ 14.7	0
✓ 18.6	0
✓ 20.1	0
✓ 21.1	0
✓ 30.1	0
✓ 30.1	5.56
✓ 24.1	5.32
✓ 20.1	4.69
✓ 18.6	2.49
✓ 14.7	2.18

Enter

Area = 67.1515

RECEIVED
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More Online Geometry Calculators and Solvers

Home Page - Online Calculators - Trigonometry - Antennas - Graphing - Precalculus Tutorials - Calculus Tutorials
Calculus Questions - Geometry Tutorials - Precalculus Applets - Applied Math - Precalculus Questions and Problems -
Equations, Systems and Inequalities - Geometry Calculators - Math Software - Elementary Statistics -
Author - e-mail

Updated: 25 November 2007 (A Dendane)

Applet: Irregular_Polygons_Areas started

Internet

Section 300

30101 Untreated Aggregate Base, Grading D _____ Page 73

30416 Cement _____ Page 78

31001 Recycled Aggregate Base _____ Page 82

Projects: WA PRA FVNP 100(1)... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Proj

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

* indicates a required field

FHWA Pay Note

Pay Note: 22 INS Pay Item Number: 30101-2000 Line Number: A 0380
 Period: 1 INS Pay Item Type: Normal pay item, may need material incentive Contract Mod #:
 Description: AGGREGATE BASE GRADING D

Acct	Contract Quantities			Revised Quantities		Probables		% Over / Under	
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity		Amount
	25,000.0	\$17.00	TON	\$425,000.00	25,000.0	\$425,000.00	25,000.0	\$425,000.00	0.00
CON01	25,000.0	\$17.00	TON	\$425,000.00	25,000.0	\$425,000.00	25,000.0	\$425,000.00	0.00

Pay Note Date*: 08-07-2013

Entries:

Pay Note Entry #1

Work Date Start Date*: 08-05-2013

Work Date End Date*: 08-06-2013

Location/Description*:
 Station 1277+60 to 1281+40 placed : 368.550 tons
 Lot 1

Do not scan individual Haul Tickets into EEBACS. Provide ORIGINAL Hardcopies of all Haul Tickets to Project Engineer.

CON01 Main account Quantity:
 368.5 TON

Remarks/Calculations:
 See attached documentation:
 (a) Daily Mass Record WFLHD 422M
 (b) Street Delivery Report, spread report WFLHD 434
 (c) Tare Chart WFLHD 443
 (d) ticket check MS Excel spreadsheet

CON01 Main account Quantity: 368.5

Total Pay Note Quantity: 368.5 TON
 Total Production Days: 2
 Production Rate: 184.3 TON/Day
 Measured By*: Bob COE
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final

Supporting Documentation:
 File Name:
 30101_Agg_base_D_support.pdf

Reference:

Reference

(This area contains a rich text editor with formatting options like Bold, Italic, Underline, etc.)

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

WFLHD-443
(Rev 12/90)

TARE CHART

PAGE NO. 1

PROJECT: AK PRA DENA 10(13)

LOADS NOT APPEARING ON
STREET DELIVERY REPORT
WILL BE DELETED UNLESS
SATISFACTORILY EXPLAINED.

DATE 9/23/2013

EM NO.: 30101-2000 Agg Base Grading D

Pay Lot No.: 1

SHEET NO. 1 OF 1

SOURCE NO.: GNW - MP 247 Parks Hwy pit

TRUCK NO.	519	922	203	781	928
TARE 1	36,100	36,500	39,800	36,600	36,500
TARE 2	36,300	36,300	37,350	36,750	36,400
TARE 3					
TARE AVERAGE	36,200	36,400	38,575	36,675	36,450
TRUCK TALLY					
NUMBER LOADS	2	3	2	2	3
TARE WEIGHT	72400	109200	77150	73350	109350
TRUCK NO.	Blk #4				
TARE 1	37,300				
TARE 2	37,200				
TARE 3					
TARE AVERAGE	37,250				
TRUCK TALLY					
NUMBER LOADS	3				
TARE WEIGHT	111750				
TRUCK NO.					
TARE 1					
TARE 2					
TARE 3					
TARE AVERAGE					
TRUCK TALLY					
NUMBER LOADS					
TARE WEIGHT					

RECEIVED
SEP 27 2013
BY PROJECT E

TOTAL TARE WEIGHT 553200 ✓

I CERTIFY THIS INFORMATION TO BE
C O R R E C T

BY: Steve Myzant

DATE: 9/27/2013

COMPANY: Tutka, LLC

wflhd443.wpf

Denali Park Road -Sanctuary Area
AK PRA DENA 10(13)
30101-2000 Agg Base Grading D
Haul Ticket Check 9/23/2013
by: John Smith

Load	Quan.	Remark
	1	50900
	2	47000
	3	46100
	4	51300
	5	48400
	6	50400
	7	49900
	8	49500
	9	49300
	10	49900
	11	47850
	12	49150
	13	48900
	14	50400
	15	48100
TOTAL:	368.55	tons

FHWA Pay Note

Pay Note: 23 INS **Pay Item Number:** 30416-0000 **Line Number:** A 0400
Period: 1 INS **Pay Item Type:** Normal pay item **Contract Mod #:**
Description: CEMENT

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	100.0	\$250.00	TON	\$25,000.00	100.0	\$25,000.00	100.0	\$25,000.00	0.00
CON01	100.0	\$250.00	TON	\$25,000.00	100.0	\$25,000.00	100.0	\$25,000.00	0.00

Pay Note Date*: 09-27-2010

Entries:

Pay Note Entry #1

Work Date Start Date*: 09-26-2010

Work Date End Date*: 09-26-2010

Location/Description*:
 Station 180+68 to station 260+37
 Load 1 = 30,104 lb
 Load 2 = 71,350 lb
 Load 3 = 71,600 lb
 = 173,054 lbs = 86.527 tons

CON01 Main account Quantity:
 86.53 TON

Remarks/Calculations:
 *See attached documentation/calculations

CON01 Main account Quantity: 86.5

Total Pay Note Quantity: 86.5 TON
 Total Production Days: 1
 Production Rate: 86.53 TON/Day
 Measured By*: Bob COE
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final
 Supporting Documentation:
 File Name: 304_Example.pdf

Reference:

COMBINED UNIFORM STRAIGHT BILL OF LADING AND FREIGHT BILL ORIGINAL • NOT NEGOTIABLE



Portland Bulk Dispatch 503-255-7902 Fax: 503-255-9245
 Portland Heavy Haul Dispatch 503-255-7904 Fax: 503-257-9028
 Portland Nationwide WATS 800-727-7900

Seattle 206-878-7980
 Seattle Fax: 206-878-0229
 Seattle Nationwide WATS 800-727-7980

RECEIVED, subject to the carrier's rules and rate tariff and other pricing agreements in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every consignment to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment. The carrier hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing carrier's rules, tariff and the said terms and conditions are hereby agreed to by the shipper and acceptor of the bill of lading.

SHIPPER RGC	SU BH 01	DATE 9-26-10	TRUCK # 27-270	TRAILER # 474/474	P.O. #
CONSIGNEE Ground VR Road	CITY & STATE Kennewick, WA			SHIPPER B.L. # 7768229116	
BILL TO NAME	CITY & STATE Proline, ID			ROUTE CODE	
C.O.D.			\$		

COMMODITY CODE	NO. SHIPPING UNITS	KIND OF PACKAGING, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	NET WEIGHT (Subject to Correction)	RATE	CHARGES
	17+	type II cement 15 TON	30140		

CARRIER'S LIABILITY FOR LOST OR DAMAGED FREIGHT IS LIMITED BY CARRIER'S RULES TARIFF WHICH IS INCORPORATED BY REFERENCE. SHIPPER SHALL FILE ALL CLAIMS WITHIN THE TIME LIMITS SET FORTH IN CARRIER'S RULES TARIFF. CLAIMS MUST BE FILED WITHIN 270 DAYS FROM THE DATE OF DELIVERY.

SHIPPER SIGNATURE:	LOADING DRIVER Ed Fieger	PILOT CARS ONE <input type="radio"/> TWO <input type="radio"/>
	DATE 9/26/10 TIME ARRIVED 0600	STARTED LOADING 0600 TIME LEFT 0630
CONSIGNEE SIGNATURE: RECEIVED ABOVE FREIGHT IN GOOD ORDER.	UNLOADING DRIVER Ed Fieger	PILOT CARS ONE <input type="radio"/> TWO <input type="radio"/>
	DATE 9/26/10 TIME ARRIVED 1000	STARTED UNLOADING 1015 TIME LEFT 1100

MISCELLANEOUS CHARGES

DO NOT DIVERT WITHOUT CONSENT OF ASH GROVE CEMENT CO

TRUCK LOADED PER DRIVER'S INSTRUCTIONS

RAIL-LOADED TO FULL VISIBLE CAPACITY

SPECIAL INSTRUCTIONS

Certified Mill Analysis D10-15

Permanent post office address of seller
 ASH GROVE CEMENT COMPANY
 PO BOX 240 PORTLAND, OR 97207-0240

CUSTOMER PICK UP ONLY. This acknowledges receipt and title to the material described hereon, which is for use at the destination indicated above.

LOADED BY

BY: _____

RECEIVED FOR CONSIGNEE. Prior to signing delivery receipt, consignee shall verify condition of shipment. No claims for shortage of goods, loss or damage will be considered unless noted on the Bill of Lading at the time of delivery and supported by documentation acceptable to seller.

ACCEPTED FOR CARRIER:
 BY:

ALL SALES SUBJECT TO THE TERMS AND CONDITIONS ON FRONT AND BACK SIDES.

CONSIGNEE RECORD

REV. 6-3-1



COMBINED UNIFORM STRAIGHT BILL OF LADING AND FREIGHT BILL ORIGINAL • NOT NEGOTIABLE

Portland Bulk Dispatch 503-255-7902 Fax: 503-255-9245
 Portland Heavy Haul Dispatch 503-255-7904 Fax: 503-257-9028
 Portland Nationwide WATS 800-727-7900

Seattle 206-878-7980
 Seattle Fax: 206-878-0229
 Seattle Nationwide WATS 800-727-7980

RECEIVED, subject to the carrier's rules and rate tariff and other pricing agreements in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as to contents and condition of contents of packages (unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that the carrier hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification on the date of shipment, and that the shipper and his assignors are hereby notified that the property described above is being shipped under the terms and conditions of the governing classification on the date of shipment and that the shipper and his assignors are hereby notified that the property described above is being shipped under the terms and conditions of the governing classification on the date of shipment and that the shipper and his assignors are hereby notified that the property described above is being shipped under the terms and conditions of the governing classification on the date of shipment.

SHIPPER 258 ASH GROVE CEMENT COMPANY	CITY & STATE DURKEE OR	TRUCK # 27-151	TRAILER # 35-357B 35-358B	P.O. #
CONSIGNEE 7829 GROUND UP ROAD CONSTRUCTION	CITY & STATE OROFINO ID	DATE 05/26/10		SHIPPER B.L. # 204104094
TO NAME SHPOR ASH GROVE CEMENT COMPANY	CITY & STATE LAKE OSWEGO OR	BILL TO NAME ASH GROVE CEMENT COMPANY		ROUTE CODE 1
NO. SHIPPING UNITS 1.00	KIND OF PACKAGING, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS TYPE 1-2 CEMENT	NET WEIGHT (Subject to Correction) 71,350	RATE	CHARGES

CARRIER'S LIABILITY FOR LOST OR DAMAGED FREIGHT IS LIMITED BY CARRIER'S RULES TARIFF WHICH IS INCORPORATED BY REFERENCE. SHIPPER SHALL FILE ALL CLAIMS WITHIN THE TIME SET FORTH IN CARRIER'S RULES TARIFF. CLAIMS MUST BE FILED WITHIN 270 DAYS FROM THE DATE OF DELIVERY.

PER SIGNATURE:

LOADING DRIVER BRYAN BEAUPRE	PILOT CARS ONE <input type="radio"/> TWO <input type="radio"/>
DATE 5/26/10	TIME ARRIVED 1645
STARTED LOADING 1645	TIME LEFT 1715
UNLOADING DRIVER BRYAN BEAUPRE	PILOT CARS ONE <input type="radio"/> TWO <input type="radio"/>
DATE 5/27/10	TIME ARRIVED 1430
STARTED UNLOADING 1630	TIME LEFT

NOT DIVERT WITHOUT CONSENT OF ASH GROVE CEMENT CO.

SPECIAL INSTRUCTIONS

Certified Mill Analysis 10-15

ASH GROVE CEMENT COMPANY Seller
Permanent address of Seller: 5 Centerpointe Drive Suite 350 Lake Oswego, OR 97035

ACCEPTED BY: This acknowledges receipt and title to the material described hereon, which is for use at the destination indicated above.

Robert Wash

B. Beupre

LOADED BY

TIME USED BY CONSIGNEE FOR UNLOADING TRUCK, IN EXCESS OF TIME ALLOWED IN TARIFF, WILL BE ASSESSED AT THE APPLICABLE TARIFF RATES AND CHARGED TO CONSIGNEE. PRIOR TO SIGNING DELIVERY RECEIPT, VERIFY CONDITION OF SHIPMENT, TRUCK ARRIVAL, AND UNLOADING COMPLETED TIME. NO CLAIMS FOR SHORTAGE OF GOODS, LOSS OR DAMAGE WILL BE CONSIDERED UNLESS SUPPORTED BY DOCUMENTATION ACCEPTABLE TO SELLER.

PER

RAIL-LOADED TO FULL VISIBLE CAPACITY
 TRUCK LOADED PER DRIVER'S INSTRUCTIONS

RECEIVED FOR CONSIGNEE BY

Randy Andrews 9-28-10

(ALL SALES SUBJECT TO THE TERMS AND CONDITION ON THE FRONT AND BACK SIDES.)



COMBINED UNIFORM STRAIGHT BILL OF LADING AND RECEIPT
 Portland Bulk Dispatch 503-255-7902 Fax: 503-255-9245
 Portland Heavy Haul Dispatch 503-255-7904 Fax: 503-257-9028
 Portland Nationwide WATS 800-727-7900

Seattle 206-878-7980
 Seattle Fax: 206-878-0229
 Seattle Nationwide WATS 800-727-7980

RECEIVED, subject to the carrier's rules and rate tariff and other pricing agreements in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every carrier to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

SHIPPER: Ash Grove cement
 CONSIGNEE: Ground Up Road Const Orofino
 DATE: 09/26/10
 TRUCK#: 21-159
 TRAILER #: 361B-362B
 CITY & STATE: Durkee OR
 CITY & STATE: Orofino ID

COMMODITY CODE	NO. SHIPPING UNITS	KIND OF PACKAGING, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	NET WEIGHT (Subject to Correction)	RATE	CHARGES
		TYPE I - 4 cement	71.600		

CARRIER'S LIABILITY FOR LOST OR DAMAGED FREIGHT IS LIMITED BY CARRIER'S RULES TARIFF WHICH IS INCORPORATED BY REFERENCE. SHIPPER SHALL FILE ALL CLAIMS WITHIN THE TIME LIMITS SET FORTH IN CARRIER'S RULES TARIFF. CLAIMS MUST BE FILED WITHIN 270 DAYS FROM THE DATE OF DELIVERY.

SHIPPER SIGNATURE: P. J. GTF
 LOADING DRIVER: Pete K. Touber
 DATE: 09/26/10
 TIME ARRIVED: 12:45
 STARTED LOADING: 12:45
 TIME LEFT: 13:15
 CONSIGNEE SIGNATURE: M. Buehler
 UNLOADING DRIVER: Pete K. Touber
 DATE: 09/27/10
 TIME ARRIVED: 1:30
 STARTED UNLOADING: 1:40

NOT DIVERT WITHOUT CONSENT OF ASH GROVE CEMENT CO.

SPECIAL INSTRUCTIONS

Certified Mill Analysis 10-15

ASH GROVE CEMENT COMPANY Seller
 Permanent address of Seller:
 5 Centerpointe Drive Suite 350
 Lake Oswego, OR 97035

ACCEPTED BY: This acknowledges receipt and title to the material described hereon, which is for use at the destination indicated above.

LOADED BY

TIME USED BY CONSIGNEE FOR UNLOADING TRUCK, IN EXCESS OF TIME ALLOWED IN TARIFF, WILL BE ASSESSED AT THE APPLICABLE TARIFF RATES AND CHARGED TO CONSIGNEE. PRIOR TO SIGNING DELIVERY RECEIPT, VERIFY CONDITION OF SHIPMENT, TRUCK ARRIVAL, AND UNLOADING COMPLETED TIME. NO CLAIMS FOR SHORTAGE OF GOODS, LOSS OR DAMAGE WILL BE CONSIDERED UNLESS SUPPORTED BY DOCUMENTATION ACCEPTABLE TO SELLER.

PER

RAIL-LOADED TO FULL VISIBLE CAPACITY
 TRUCK LOADED PER DRIVER'S INSTRUCTIONS

RECEIVED FOR CONSIGNEE BY

Randy Norland 9-28-10

(ALL SALES SUBJECT TO THE TERMS AND CONDITION ON THE FRONT AND BACK SIDES.)

Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Pr

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 3 INS Pay Item Number: 31001-0000 Line Number: A 0420
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: RECYCLED AGGREGATE BASE

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	5,000	\$5.00	SQYD	\$25,000.00	5,000	\$25,000.00	5,000	\$25,000.00	0.00
CON01	5,000	\$5.00	SQYD	\$25,000.00	5,000	\$25,000.00	5,000	\$25,000.00	0.00

Pay Note Date*: 08-08-2013

Entries:

Pay Note Entry #1

Work Date Start Date*: 08-07-2013

Work Date End Date*: 08-07-2013

Location/Description*:
 45+455.5 to 46+104.1 (Including pullout width):
 Total = 5363.30 SQYD

CON01 Main account Quantity:
 5363.3 SQYD

Remarks/Calculations:
 *See attached field measurements and calculations
 Conversion: (4484.40 m2 * 1.19599 SQYD/m2) = 5363.30 SQYD

CON01 Main account Quantity: 5,363.3

Total Pay Note Quantity: 5,363.3 SQYD
 Total Production Days: 1
 Production Rate: 5,363.3 SQYD/Day
 Measured By*: Bob COE
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final

Supporting Documentation: File Name: 31001_Recycled_Agg_Base_support.pdf

Reference:

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)



COMPUTATIONS		Project #:
Client Name:		Sheet <u>1</u> of <u>2</u>
Prepared by: <i>T. Erickson</i>	Date: <i>6/16/09</i>	Checked by: Date

Project Name: *Beartooth Hwy.*

DETAIL = Milling Area East of NE Park Entrance

Total Length Measured of wheel = 649m

Pullout (25m length)

STA	DIST	WIDTH LENGTH	WIDTH AVG. LENGTH	Area (m ²)
0		0		
	5m		1.65m	8.25
5m		3.3		
	5m		3.85	19.25
10m		4.4		
	5m		4.6	23
15m		4.8		
	5m		4.4	22
20m		4.0 ✓		
	5m		2	10 ✓
25m ✓		0		

Pullout TOTAL =

RECEIVED
JUN 16 2009
[Signature]

187.5 m² ✓

OFTEDAL CONSTRUCTION, INC

ROADWAY

STA	DIST	WIDTH	AVG WIDTH	Area (m ²)
46+104.1		7.4		
	34.1		7.2	245.52
46+070		7.0		
	30		6.9	207
46+050		6.8		
	30		6.8	204
45+950		6.8 ✓		
	30		6.75	202.5
45+900		6.7		
	30		6.7	201
45+850		6.7		
	30		6.7	201

✓
[Signature]
7/31/09

COMPUTATIONS		Project #:
Client Name: <i>Oftedal</i>		Sheet <u>2</u> of <u>2</u>
Project Name: <i>Heartleaf Hwy NE RAMP → Cooke City</i>	Prepared by: <i>T. Erickson</i>	Date: <i>6/6/09</i>
Checked by:		Date:

STA	DIST	WIDTH	AUG. WIDTH	Area (m ²)
45+920	30	6.7	6.7	201
45+890	30	6.7	6.75	202.5 ✓
45+860	30	6.8	6.75	202.5
45+830	30	6.7	6.7	201
45+800	30	6.7	6.7	201
45+770	30	6.7	6.7	201
45+740	30	6.7	6.7	201
45+710	30	6.6	6.65	199.5
45+680	30	6.7 ✓	6.65	199.5
45+650	30	6.8	6.75	202.5
45+620	30	6.8	6.8	204 ✓
45+590	30	6.8	6.8	204
45+560	30	6.6	6.7	201
45+530	30	6.7	6.65	199.5
45+500	30	6.7 ✓	6.7	201
45+470	30	7.2 ✓	6.95	208.5
45+455.5	14.5	1.3	7.75	112.38

[Signature]
7/31/09

3140.08

Total Roadway = 4401.9 m² ✓
 + Shoulder = 82.5 m²
GRAND TOTAL = 4484.4 m² ✓

Section 400

40101 Superpave Hot Asphalt Concrete Pavement _____ Page 85

40105 Antistrip Additive _____ Page 90

41201 Tack Coat _____ Page 94

Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Proj

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 24 INS Pay Item Number: 40101-0100 Line Number: A 0440
 Period: 1 INS Pay Item Type: Normal pay item, may need roughness incentive Contract Mod #:
 Description: SUPERPAVE PAVEMENT, 3/8-INCH NOMINAL MAXIMUM SIZE AGGREGATE, <0.3 MILLION ESAL

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	35,000.000		TON	\$4,025,000.00	35,000.000	\$4,025,000.00	35,000.000	\$4,025,000.00	0.00
CON01	35,000.000	\$115.00	TON	\$4,025,000.00	35,000.000	\$4,025,000.00	35,000.000	\$4,025,000.00	0.00

Pay Note Date*: 06-08-2010

Entries:

Pay Note Entry #1

Work Date Start Date*: 06-08-2010

Work Date End Date*: 06-08-2010

Location/Description*:
 Station 1277+60 to 1281+40 : 368.550 tons
 Lot 1

Do not scan individual Haul Tickets into EEBACS. Provide ORIGINAL Hardcopies of all Haul Tickets to Project Engineer.

CON01 Main account Quantity: 368.5 TON

Remarks/Calculations:
 See attached documentation:
 (a) Daily Mass Record WFLHD 422M
 (b) Street Delivery Report, spread report WFLHD 434
 (c) Tare Chart WFLHD 443
 (d) ticket check MS Excel spreadsheet

CON01 Main account Quantity: 368.500

Total Pay Note Quantity: 368.500 TON
 Total Production Days: 1
 Production Rate: 368.500 TON/Day
 Measured By*: Bob COE
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final

Supporting Documentation: File Name: 40101_Superpave_asphalt_support.pdf

Reference:

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

WFLHD-443
(Rev 12/90)

TARE CHART

PAGE NO. 1

PROJECT: AK PRA DENA 10(13)

LOADS NOT APPEARING ON
STREET DELIVERY REPORT
WILL BE DELETED UNLESS
SATISFACTORILY EXPLAINED.

DATE 9/23/2013

EM NO.: 40101 Superpave Pavement

SOURCE NO.: GNW - MP 247 Parks Hwy pit

Pay Lot No.: 1

SHEET NO. 1 OF 1

TRUCK NO.	519	922	203	781	928
TARE 1	36,100	36,500	39,800	36,600	36,500
TARE 2	36,300	36,300	37,350	36,750	36,400
TARE 3					
TARE AVERAGE	36,200	36,400	38,575	36,675	36,450
TRUCK TALLY					
NUMBER LOADS	2	3	2	2	3
TARE WEIGHT	72400	109200	77150	73350	109350
TRUCK NO.	Blk #4				
TARE 1	37,300				
TARE 2	37,200				
TARE 3					
TARE AVERAGE	37,250				
TRUCK TALLY					
NUMBER LOADS	3				
TARE WEIGHT	111750				
TRUCK NO.					
TARE 1					
TARE 2					
TARE 3					
TARE AVERAGE					
TRUCK TALLY					
NUMBER LOADS					
TARE WEIGHT					

RECEIVED
SEP 27 2013
BY PROJECT E

TOTAL TARE WEIGHT 553200 ✓

I CERTIFY THIS INFORMATION TO BE
C O R R E C T
BY: Steve Myzant
DATE: 9/27/2013
COMPANY: Tutka, LLC

wflhd443.wpf

Denali Park Road -Sanctuary Area
AK PRA DENA 10(13)
40101-0100 Superpave Pavement
Haul Ticket Check 9/23/2013
by: John Smith

Load	Quan.	Remark
	1	50900
	2	47000
	3	46100
	4	51300
	5	48400
	6	50400
	7	49900
	8	49500
	9	49300
	10	49900
	11	47850
	12	49150
	13	48900
	14	50400
	15	48100
TOTAL:	368.55	tons

Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Proj

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 25 INS Pay Item Number: 40105-1000 Line Number: A 0480
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: ANTISTRIP ADDITIVE, TYPE 1

Acct	Contract Quantities				Revised Quantities		Probables		
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	100.0	\$25.00	TON	\$2,500.00	100.0	\$2,500.00	100.0	\$2,500.00	0.00
CON01	100.0	\$25.00	TON	\$2,500.00	100.0	\$2,500.00	100.0	\$2,500.00	0.00

Pay Note Date*: 09-17-2010

Entries:

Pay Note Entry #1

Work Date Start Date*: 09-11-2010

Work Date End Date*: 09-16-2010

Location/Description*:

B I U

9/11 = 26.4 tons
 9/14 = 28.7 tons
 9/16 = 27.2 tons
 Total = 82.3 tons

8,700.97 tons of Superpave Pavement Placed, @ 5.5% AC mix design = 8,222.41 tons of rock
 Antistrip Additive added at 1% per weight of rock = 82.2 tons
 Invoice totals verified by weight of total tons placed.

CON01 Main account Quantity:
 82.3 TON

Remarks/Calculations:

B I U

*See attached documentation/calculations

CON01 Main account Quantity: 82.3

Total Pay Note Quantity: 82.3 TON
 Total Production Days: 3
 Production Rate: 27.4 TON/Day
 Measured By*: Bob COE
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final

Supporting Documentation:
 File Name: 401_A.S_Example.pdf

Reference:

B I U

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Graymont Western US Inc.
Indian Creek Plant
4 1/2 miles west Indian Creek Road
P.O Box 550
Townsend MT 59644

Ship To: 653892

BILL OF LADING - Not Negotiable

Customer#:	173264	B/L Number:	2440962	Page:	1
Customer PO#:	id pfh cdp 67(2)	Ship Date:	09/11/10		
Our Order No:	104443 SO	Broker #:	172957 FCA-COLLECT		
Related Ord No:		Broker Name:	Customer's Truck		
Order Date:	09/07/10	Zone:	Blank		
Terms:	Net 30	Delivery:	09/09/10		
Shipment#:	27354079	CTQ/NIR:			

165897

Gross:	86460 lb	21:00	Scale ID:	20501
Tare:	33660 lb	20:22	Car/Truck #:	0051
Net:	52800 lb		Carrier:	Warren Transport Inc.

Item	Quantity	Description
2000	26.400 TN	Chem Hydrate, Bulk High Calcium Hydrated Lime

This shipment of hydrated lime for the above name project, identified and covered by this B/L conforms to the chemical and physical requirements of AASHTO M 216 Type 1 Hydrated Lime.

EMERGENCY TEL. NO. WHMIS: (800) 424-9300 CHEMTREC (US)
(613) 996-6666 CANUTEC (CANADA)

TRUCK INSPECTED BY _____



Delivery Instructions:

Shipper/Deputy:

Carrier:

Consignee:

pe. SS

per [Signature]

per _____

B/L Number 2440962

ACKNOWLEDGEMENT OF DELIVERY

Graymont Western US Inc.
Indian Creek Plant
4 1/2 miles west Indian Creek Road
P.O Box 550
Townsend MT 59644

Ship To: _____ 653892

ILL OF LADING - Not Negotiable

Customer#:	173264	B/L Number:	2443374	Page:	1
Customer PO#:	id pfh cdp 67(2)	Ship Date:	09/14/10		
Our Order No:	104443 SO	Broker #:	172957 FCA-COLLECT		
Related Ord No:		Broker Name:	Customer's Truck		
Order Date:	09/07/10	Zone:	Blank		
Terms:	Net 30	Delivery:	09/10/10		
Shipment#:	27354087	CTQ/NIR:			

165897

Gross:	91460 lb	13:27	Scale ID:	20501
Tare:	34060 lb	11:57	Car/Truck #:	0051
Net:	57400 lb		Carrier:	Warren Transport Inc.

Item	Quantity	Description
2000	28.700 TN	Chem Hydrate, Bulk High Calcium Hydrated Lime

This shipment of hydrated lime for the above name project, identified and covered by this B/L conforms to the chemical and physical requirements of AASHTO M 216 Type 1 Hydrated Lime.

EMERGENCY TEL. NO. WHMIS: (800) 424-9300 CHEMTREC (US)
(613) 996-6666 CANUTEC (CANADA)

TRUCK INSPECTED BY _____



Delivery Instructions:

Shipper/Deputy:

Carrier:

Consignee:

pe JH

per [Signature]

per _____

B/L Number 2443374

ACKNOWLEDGEMENT OF DELIVERY

PFH CDP 67(2)
ngement

Truck Shift Total: -12.25 T
Accum Shift Total: 13.95 T

No.	31850	41202-1000 Tack Coat
Load of	Tack Coat	
From	
To	FWHA	
	Time	Date
	08:34AM	09/04/2010
	14	
	Gross	17.34 T
	Tare	12.25 T
Tack Truck	Net	5.09 T
Driver	
	<i>Emily Guandau</i> Weigher	

Section 500

55101 Driven Piles _____ Page 98

55201 Strucutal Concrete _____ Page 101

Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Pr

Project Info Design Construction Account Team

Core Contract Status Progress Payment SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary Pay Notes Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 53 INS Pay Item Number: 55101-1800 Line Number: A 0540
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: STEEL H-PILES 14 X 73, IN PLACE

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	800.0	\$120.00	LNFT	\$96,000.00	800.0	\$96,000.00	800.0	\$96,000.00	0.00
CON01	800.0	\$120.00	LNFT	\$96,000.00	800.0	\$96,000.00	800.0	\$96,000.00	0.00

Pay Note Date*: 08-12-2013

Entries:

Pay Note Entry #1

Work Date Start Date*: 08-06-2013

Work Date End Date*: 08-09-2013

Location/Description*: STA 8+143.037, drive steel H-piles for Abutment No. 2 = 152.4 m = 500.024 LNFT

See Appendix F for Wave Equation example

When measuring piles by the linear foot (meter), measure the length of pile from the cutoff elevation to the tip.

CON01 Main account Quantity: 500.02 LNFT

Remarks/Calculations: 1 m = 3.281 ft
152.4 m x 3.281 ft = 500.024 LNFT
*See attached documentation: pile layout and driving record

CON01 Main account Quantity: 500.0

Total Pay Note Quantity: 500.0 LNFT

Total Production Days: 4

Production Rate: 125.0 LNFT/Day

Measured By*: Bob COE

FHWA Inspector:

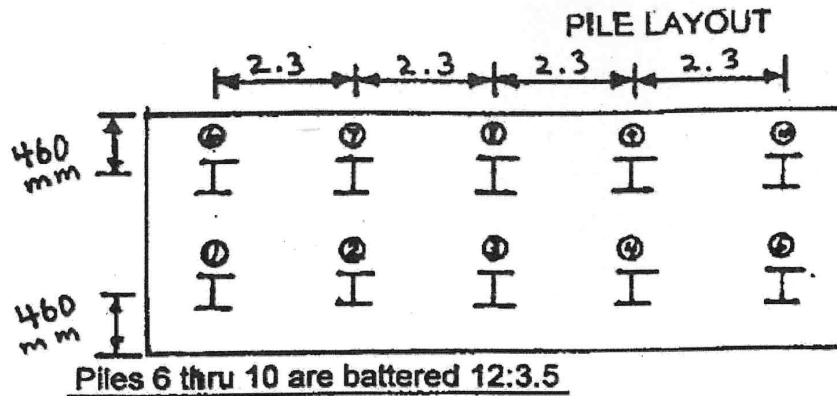
Contractor Inspector:

Interim/Final*: Interim Final

Supporting Documentation: File Name: 551_Steel_H-Piles_14x73..._In_Place_Example.pdf

Reference:

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)



8+143.037

C/L ABUT

Pile Driving Record

1/10/1998
 Bolder Creek Bridge
 Abutment #2

Pile Type: **Steel H-Pile,**
 Hammer Name/Model: Delmag D8-22

Hammer Energy: 23.87 kN-m
 Req'D Bearing: 440 kN

Pile No.	Length in Leads (m)	Cut Off Length (m)	Cut Off Elev. (m)	Tip Elev. (m)
1	7.62	0.229	238.658	225.552
	7.62	1.905	238.658	
2	15.24	3.100	238.658	226.518
3	15.24	3.200	238.658	226.619
4	15.24	2.819	238.658	226.238
5	15.24	2.234	238.658	225.653
6	7.62	0.305	238.658	225.857
	7.62	1.600	238.658	
7	15.24	2.643	238.658	226.564
8	15.24	2.691	238.658	226.613
9	15.24	2.286	238.658	226.223
10	15.24	1.829	238.658	225.784
	152.4	24.841		

Pile No.	Ground Elev (m)	Blows per 25mm	55101 (m)	55106 (ea)
1	238.354	6	13.11	1
	238.354			
2	238.354	7	12.14	
3	238.354	7	12.04	
4	238.354	6	12.42	
5	238.354	6	13.01	
6	238.354	6	12.8	1
	238.354			
7	238.354	7	12.09	
8	238.354	7	12.05	
9	238.354	8	12.44	
10	238.354	6	12.87	
			125.0	2

WDFD-472
3/83

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
VANCOUVER, WASHINGTON

MISC. CONSTRUCTION NOTES

DATE: _____ LINE: _____ PARTY: _____
PROJECT: _____ ITEM - 55101
Steel H-Piles
In Place

CAPACITY COMPUTATIONS

FP96 TABLE 551-1 PILE HAMMER MINIMUM ENERGY
CALCULATE ULTIMATE PILE CAPACITY (RU):
RU = 440 KN REQUIRED BEARING x
FACTOR OF SAFETY (3) = 1320 KN
FROM TABLE 551-1: 1320 KN => 21 kJ REQUIRED
HAMMER ENERGY (kJ = kN-m)
CHECK PROPOSED HAMMER ENERGY:
DELMAG D8-22 MAX. ENERGY RATING = 23.87 kN-m

DYNAMIC FORMULA:

RU = $7\sqrt{E} \log(10N) - 550$
RU = ULTIMATE PILE CAPACITY (KN) = 1320 KN
E = MANUFACTURER'S RATED HAMMER ENERGY
IN JOULES AT THE FIELD OBSERVED RAM
STROKE = 23870 JOULES (AT MAX. ENERGY)
N = NUMBERS OF HAMMER BLOWS PER 25mm AT
FINAL PENETRATION

SOLVING FOR N: _____ WHERE $N = 10^x$
Therefore $X = \left(\frac{RU + 550}{7\sqrt{E}} \right) - 1$

SUBSTITUTE VALUES AND SOLVE FOR X:	
$X = \left(\frac{1320 + 550}{7\sqrt{23870}} \right) - 1$	
X = 0.73	
SOLVING FOR N:	
N = 10^x	
N = $10^{0.73}$	
N = 5.4 BLOWS PER 25 mm AT MAX. ENERGY *	

NOTES: * 1) Hammers seldom operate at the maximum manufacturer's rated energy. Hammer energy values should be based on field observed ram stroke. Hammer manufacturers can provide tables of ram stroke versus hammer energy. Use dynamic formula (FP96 Subsection 551.06(b) to determine ultimate capacity (blow per mm) unless the wave equation is required according to FP96 Subsection 551.03(b) if wave equation is used. WFLHD Geotech Branch will furnish the amount of blows required to obtain pile capacity.

2)

COMPUTED BY: ABC CHECKED BY: JKD
DATE: _____ DATE: _____

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 39 INS Pay Item Number: 55201-0200 Line Number: A 0560
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: STRUCTURAL CONCRETE, CLASS A (AE)

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	120.000	\$450.00	CUYD	\$54,000.00	120.000	\$54,000.00	120.000	\$54,000.00	0.00
CON01	120.000	\$450.00	CUYD	\$54,000.00	120.000	\$54,000.00	120.000	\$54,000.00	0.00

Pay Note Date*: 10-03-2011

Entries:

Pay Note Entry #1

Work Date Start Date*: 09-30-2011

Work Date End Date*: 09-30-2011

Location/Description*:

B I U [Icons]

Pier Cap, abutment 1 = 4.27 X 11.4 X 0.88 = 42.84CUYD
 Pier Cap, abutment 2 = 4.27 X 11.4 X 0.88 = 42.84CUYD
 Total = 85.68CUYD

per contract quantity

CON01 Main account Quantity:
 112.07 CUYD

Remarks/Calculations:

B I U [Icons]

abutment 1 @ 8 +357
 abutment 2 @ 8 +453

*See attached supporting sketch and calculations

CON01 Main account Quantity: 112.070

Total Pay Note Quantity: 112.070 CUYD
 Total Production Days: 1
 Production Rate: 112.070 CUYD/Day
 Measured By*: Bob COE
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final

Supporting Documentation:
 File Name: 55201_struc_conc_support.pdf

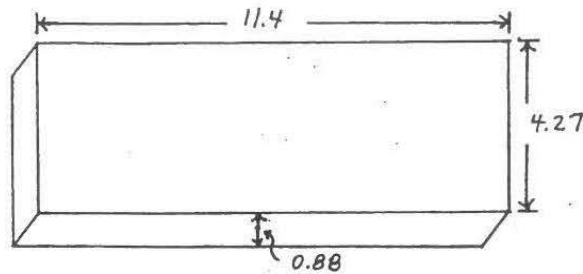
Reference:

B I U [Icons]

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Project Name: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item No. **55201-0200 Structural Concrete**
 Measurements and Calculations by: John Smith 7/06/2013

Pier Cap Abut. No. 1				
	4.27 x 11.4 x .88 =		42.84	CUYD
Pier Cap Abut. No. 2				
	Same as Pier Cap Abut. No. 1		42.84	CUYD
Total Item 55201 Est. No. 1			85.68	CUYD



(Documentation for Progress Est.)				

Section 600

60101 Minor Concrete Structures _____	Page 103
60201 Culvert _____	Page 109
60510 Collector Pipe _____	Page 116
60801 Concrete and Rubble Paved Waterway _____	Page 118
61701 Guardrail System _____	Page 120
61702 Guardrail Terminal Section _____	Page 122
62201 Motor Grader _____	Page 124
62301 General Labor _____	Page 125
62503 Turf Establishment _____	Page 126
63316 Remove and Reset Signs _____	Page 129
63401 Pavement Markings _____	Page 131
63504 Temporary Traffic Control, Construction Sign _____	Page 137
63507 Temporary Traffic Control, Traffic and Safety Supervisor _____	Page 140
63509 Temporary Traffic Control, Flagger _____	Page 142

Projects: WA PRA FVNP 100(1)... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Proc

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 49 INS Pay Item Number: 60101-0000 Line Number: A 0580
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: CONCRETE (HEADWALLS)

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	12.0	\$200.00	CUYD	\$2,400.00	12.0	\$2,400.00	12.0	\$2,400.00	0.00
CON01	12.0	\$200.00	CUYD	\$2,400.00	12.0	\$2,400.00	12.0	\$2,400.00	0.00

Pay Note Date*: 09-08-2008

Entries:

Pay Note Entry #1

Work Date Start Date*: 09-07-2008

Work Date End Date*: 09-07-2008

Location/Description*:
 Headwall at STA 102+08:
 (16.07 SQYD + 5.7 SQYD) x (0.15 YD) = 3.266 CUYD

CON01 Main account Quantity:
 3.27 CUYD

Remarks/Calculations:
 *See attached documentation/calculations:
 (a) hand drawn field cross section
 (b) irregular polygon area calculation sheets

CON01 Main account Quantity: 3.3

Total Pay Note Quantity: 3.3 CUYD
 Total Production Days: 1
 Production Rate: 3.27 CUYD/Day
 Measured By*: Bob COE
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final

Supporting Documentation:
 File Name: 60101_Conc_Minor_Structures_(Headwall)_support.pdf

Reference:

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)



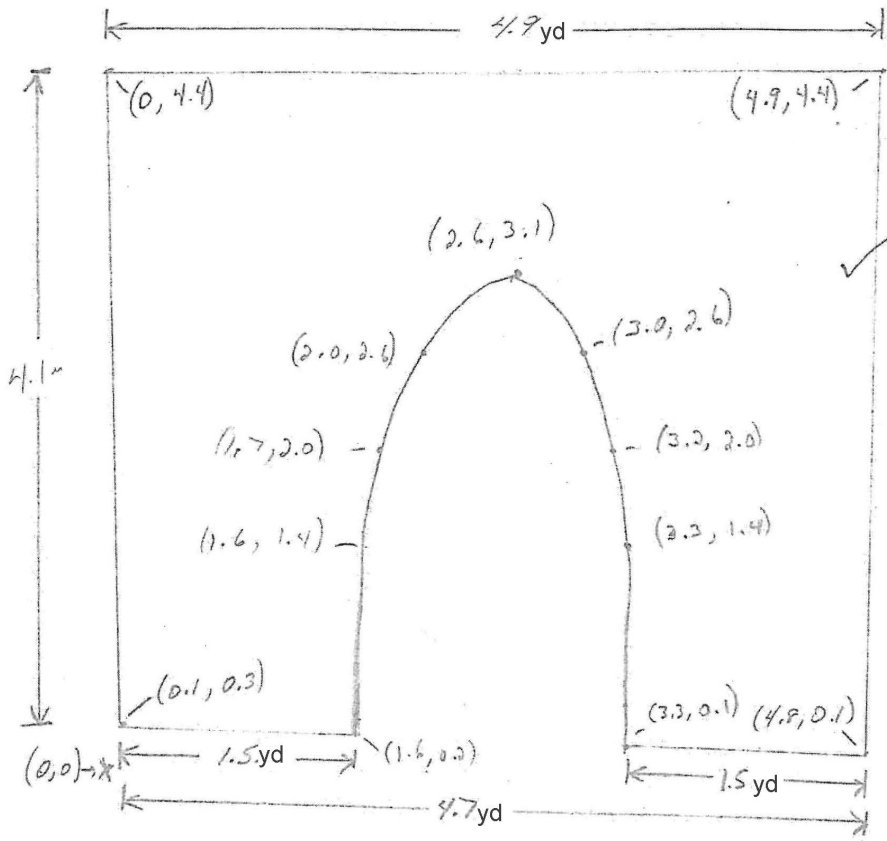
1015 S. Montana St.
P.O. Box 3588
Butte, MT 59701

Project Beartooth Highway
Detail STA 102+00 PT Headwall Conc. Volume
Project No. 60101 By T. Erickson

Sheet 4
of 7

9/4/08

SLOPE SECTION

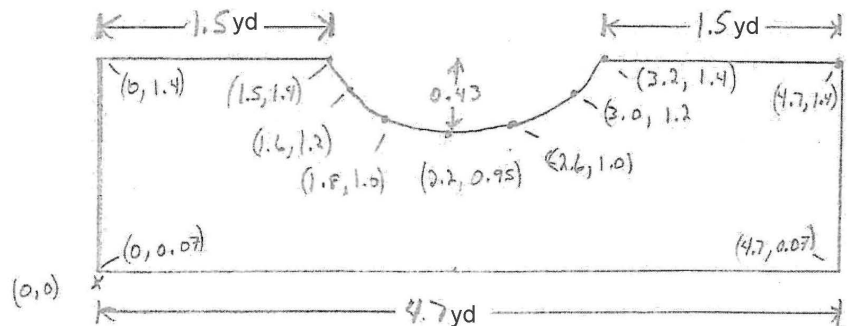


RECEIVED
SEP 08 2008
BY PROJECT MANAGER

4.3 yd

20.16 sqyd
- 4.09 sqyd
16.07 sqyd

FACE SECTION



6.25 sqyd
- 0.55 sqyd
5.7 sqyd

16.06 sqyd + 5.7 sqyd x 0.15 depth = 3.266 CUYD

STA 102+08 Culvert Concrete Headwall
Pipe in Slope Section Area to Subtract

Irregular Polygon Area Calculator - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Google Go Settings

Address http://www.analyzemath.com/Geometry_calculators/irregular_polygon_area.ht...

Web www.analyzemath.com

Google Search

n = 9

x	y
1.6	0.2
1.6	1.4
1.7	2.0
2.0	2.6
2.6	3.1
3.0	2.6
3.2	2.0
3.3	1.4
3.3	0.1

Enter

Area = 4.085

More Online Geometry Calculators and Solvers.

Home Page - Online Calculators - Trigonometry - Antennas - Graphing - Precalculus Tutorials - Calculus Tutorials
 Calculus Questions - Geometry Tutorials - Precalculus Applets - Applied Math - Precalculus Questions and Problems -
 Equations, Systems and Inequalities - Geometry Calculators - Math Software - Elementary Statistics -
 Author - e-mail

Updated: 25 November 2007 (A Dendane)

Applet Irregular Polygons Areas started

STA 102+08 Culvert Concrete Headwall
Face Section Area

The screenshot shows a web browser window with the following content:

- Browser Title:** Irregular Polygon Area Calculator - Microsoft Internet Explorer
- Address Bar:** http://www.analyzemath.com/Geometry/calculators/irregular_polygon_area.htm
- Calculator Interface:**
 - Number of sides: $n = 4$
 - Input table:

x	y
0	0.07
0	1.4
4.7	1.4
4.7	0.07
 - Buttons: "Enter" and "Calculate"
 - Result: "Area = 6.251" with a checkmark
- Navigation Links:**
 - Home Page
 - Online Calculators
 - Trigonometry
 - Antennas
 - Graphing
 - Precalculus Tutorials
 - Calculus Tutorials
 - Calculus Questions
 - Geometry Tutorials
 - Precalculus Applied
 - Applied Math
 - Precalculus Questions and Problems
 - Equations, Systems and Inequalities
 - Geometry Calculators
 - Math Software
 - Elementary Statistics
 - Author
 - e-mail
- Footer:** Updated: 25 November 2007 (A Dendane)

STA 102+08 Culvert Concrete Headwall
Pipe in Face Section Area to Subtract

The screenshot shows a web browser window with the title "Irregular Polygon Area Calculator - Microsoft Internet Explorer". The address bar contains the URL "http://www.analyzemath.com/Geometry_calculators/irregular_polygon_area.htm". The main content area features a calculator interface with the following elements:

- A table for entering coordinates:

x	y
1.5	1.4
1.6	1.2
1.8	1
2.2	0.95
2.6	1
3.0	1.2
3.2	1.4
- A field for the number of sides: "n = 7".
- An "Enter" button.
- The calculated result: "Area = 0.55".

Below the calculator, there is a link: "More Online Geometry Calculators and Solvers." At the bottom of the page, it says "Updated: 25 November 2007 (A Dendane)" and "Applet: Irregular_Polygons_Areas started".

Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Proj

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 12 INS Pay Item Number: 60201-0600 Line Number: A 0600
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: 18-INCH PIPE CULVERT

Acct	Contract Quantities				Revised Quantities		Probables		
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	100.0	\$60.00	LNFT	\$6,000.00	100.0	\$6,000.00	100.0	\$6,000.00	0.00
CON01	100.0	\$60.00	LNFT	\$6,000.00	100.0	\$6,000.00	100.0	\$6,000.00	0.00

Pay Note Date*: 03-18-2014

Entries:

Pay Note Entry #1

Work Date Start Date*: 03-17-2014

Work Date End Date*: 03-17-2014

Location/Description*:

B I U [Icons]

18 Inch Pipe Culvert Installed at Sta. 30+82
 Pipe Length = 50.00 ft (excluding end sections)

CON01 Main account Quantity:
 50.0 LNFT

Remarks/Calculations:

B I U [Icons]

*See attached documentation/plans

CON01 Main account Quantity: 50.0

Total Pay Note Quantity: 50.0 LNFT
 Total Production Days: 1
 Production Rate: 50.0 LNFT/Day
 Measured By*: Bob COE
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final

Supporting Documentation:
 File Name: 602_18in_Example.pdf

Reference:

B I U [Icons]

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U.S. Department of Transportation
 Western Federal Lands Highway Division
 610 East Fifth Street
 Vancouver, Washington 98661

Page: 1 of 1

Date: _____

Project: _____

Culvert Notes

Staking _____
 crew: _____

Station	Size	Length	Gauge or Class	Type	Inspector's Signature
30+82	18"	62'	Class IV	Concrete	

Beveled End Sections Inlet 1:2 In Place Ft. Lt. _____ Extend: Ft. Lt. _____
 Outlet 1:2 Ft. Rt. _____ Ft. Rt. _____

Pipe Installed Date: _____ New: _____ Salvaged _____
 Elevation Lt. 535.11 Rt. 533.87 Total Fall: 1.24
 Cover Min: 1.0 Max: 1.73 Grade: 2%

Skew: _____

Station	Elevation		CROSS - SECTION NOTES			
	Grade	Ground				
30+82						
0.00			533.87 Outlet Rt.	Subgrade Elev 538.15	536.54	538.16
17.75			534.22 Shldr. Rt.	Top of pipe 536.47	536.81	537.16
34.75			534.56 CL	Depth of cover 1.68	1.73	1.0
51.75			534.94 Shldr. Lt			
62.00			535.11 Inlet Lt.			

Good practice to record pipe heat numbers here to verify material certifications.

SUMMARY OF QUANTITIES

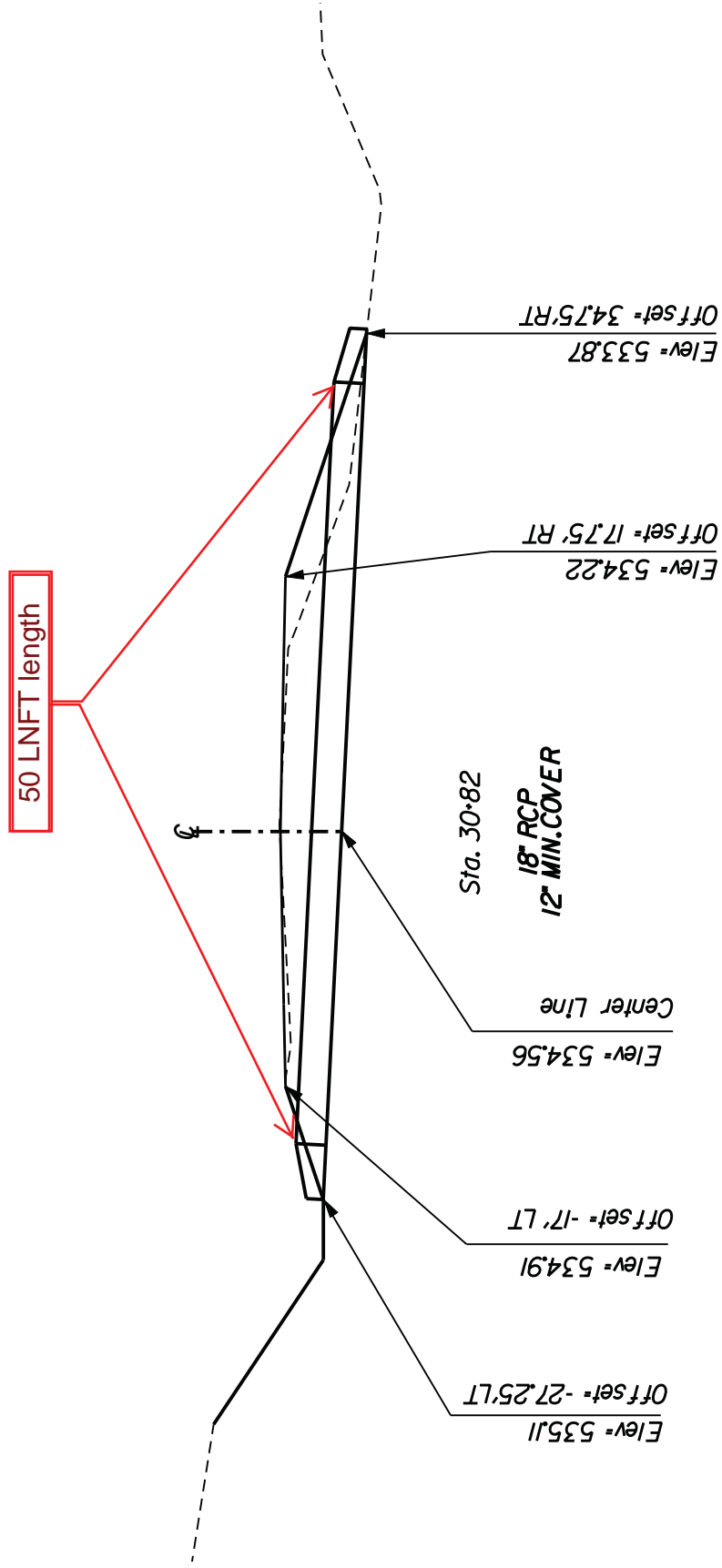
Item No.	Description	Quantity	Unit	Ent. in Sum Book	
				Page No.	Date
60201-0600	18-Inch Pipe Culvert (62' total-12' end sections=50' total length)	50	LNFT		
60210-0600	End Section for 18-inch pipe culvert	2	EA		

Computed by: _____ Checked by: _____

Date: _____ Date: _____

culvert.wpf

Project Name: FORT VANCOUVER NATIONAL PARK
Project Number: WA PRA FVNP 100(1)
Item No. 60201-0600 18-INCH PIPE CULVERT
Field Measurements by: John Smith 7/06/2013



Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Pro

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) **Project Name:** FORT VANCOUVER NATIONAL PARK **Contract Number:** DTFH-C2014 **States:** WA

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FHWA Pay Note

Pay Note: 27 INS **Pay Item Number:** 60201-0800 **Line Number:** A 0620
Period: 1 INS **Pay Item Type:** Normal pay item **Contract Mod #:**
Description: 24-INCH PIPE CULVERT

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	250.0	\$75.00	LNFT	\$18,750.00	250.0	\$18,750.00	250.0	\$18,750.00	0.00
CON01	250.0	\$75.00	LNFT	\$18,750.00	250.0	\$18,750.00	250.0	\$18,750.00	0.00

Pay Note Date*: 05-03-2013

Entries:

Pay Note Entry #1

Work Date Start Date*: 05-02-2013

Work Date End Date*: 05-02-2013

Location/Description*:

B I U [List Icons] [ABC]

Culvert installed at STA 20+12 RT: 24" pipe culvert = 12.50 ft

CON01 Main account Quantity:
 LNFT

Remarks/Calculations:

B I U [List Icons] [ABC]

*See attached documentation:
hand drawn cross section

CON01 Main account Quantity: 12.5

Total Pay Note Quantity: 12.5 LNFT

Total Production Days:

Production Rate: 12.5 LNFT/Day

Measured By*:

FHWA Inspector:

Contractor Inspector:

Interim/Final*: Interim Final

Supporting Documentation:

Reference:

B I U [List Icons] [ABC]

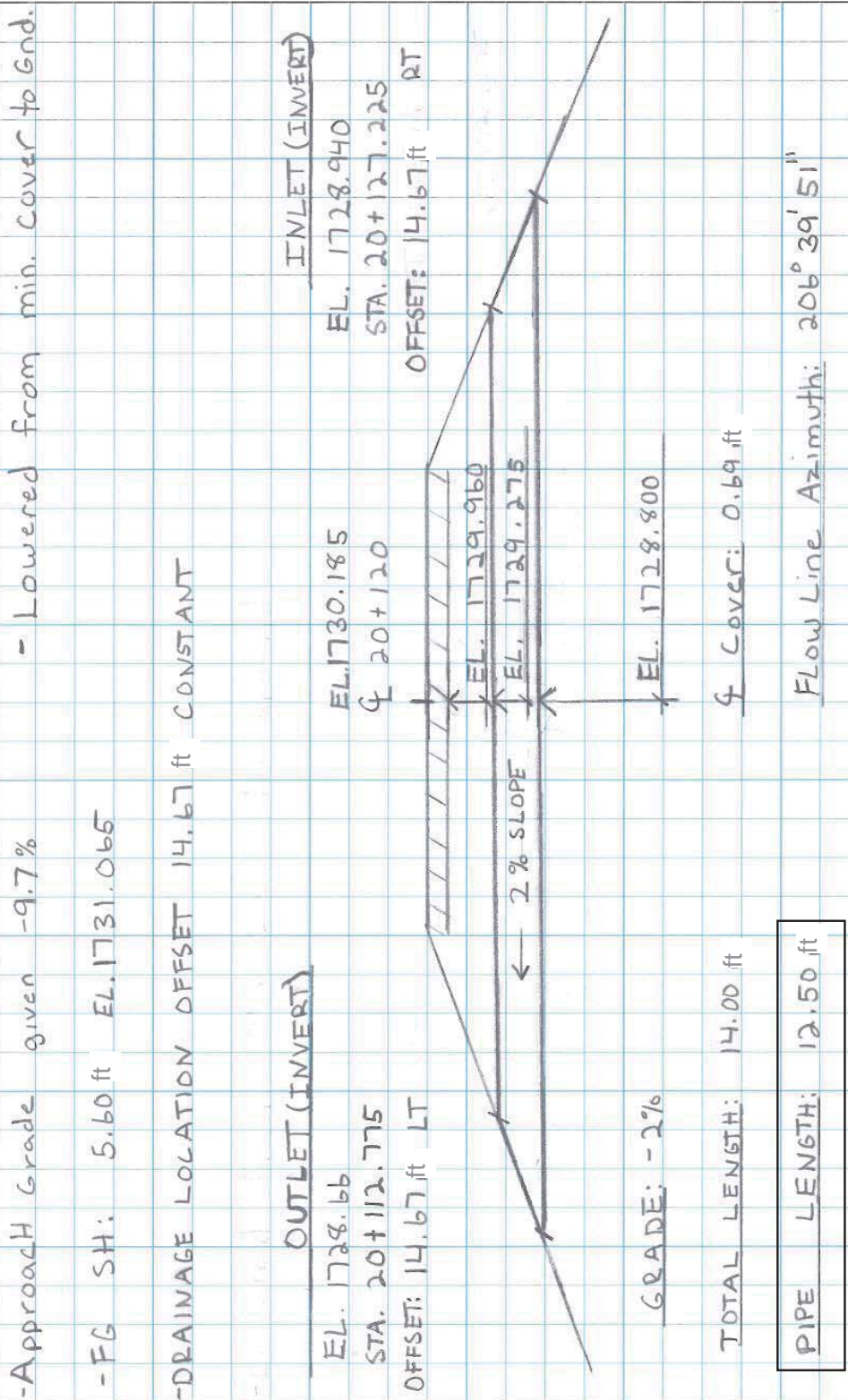
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Project Name: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item No. **60201-0800** 24-inch Pipe Culvert
 Station: 20+12 RT
 Measurements and Calculations by: Jake Mastrud 6/06/2011

Checked by:

08-NOV-2006 11:12 AM | Designed by:

F:\CAD_Services\Geotech\GRID.dgn [US_int2D]



- Approach Grade given -9.7% - Lowered from min. cover to Gnd.

- FG SH: 5.60 ft EL. 1731.065

- DRAINAGE LOCATION OFFSET 14.67 ft CONSTANT

OUTLET (INVERT)
 EL. 1728.66
 STA. 20+112.775
 OFFSET: 14.67 ft LT

INLET (INVERT)
 EL. 1728.940
 STA. 20+127.225
 OFFSET: 14.67 ft RT

GRADE: -2%

TOTAL LENGTH: 14.00 ft

PIPE LENGTH: 12.50 ft

COVER: 0.69 ft

Flow Line Azimuth: 206° 39' 51"

field measurements by:

- JAKE MASTRUD
 JUNE 6TH, 2011

Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Pro

Project Info Design **Construction** Account Team
Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

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FHWA Pay Note

Pay Note: 13 INS **Pay Item Number:** 60201-1000 **Line Number:** A 0640
Period: 1 INS **Pay Item Type:** Normal pay item **Contract Mod #:**
Description: 36-INCH PIPE CULVERT

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	200.0	\$85.00	LNFT	\$17,000.00	200.0	\$17,000.00	200.0	\$17,000.00	0.00
CON01	200.0	\$85.00	LNFT	\$17,000.00	200.0	\$17,000.00	200.0	\$17,000.00	0.00

Pay Note Date*: 03-19-2014 select clear

Entries:

Pay Note Entry #1

Work Date Start Date*: 03-18-2014 select clear

Work Date End Date*: 03-18-2014 select clear

Location/Description*:

B I U [Icons]

36 inch pipe installed at 243+08.54
Pipe Length = 68.29' (excluding end sections)

CON01 Main account Quantity: 68.3 LNFT

Remarks/Calculations:

B I U [Icons]

*See attached as built drawing

Delete

Add Entry

CON01 Main account Quantity: 68.3

Total Pay Note Quantity: 68.3 LNFT
 Total Production Days: 1
 Production Rate: 68.3 LNFT/Day
 Measured By*: Bob COE
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final

Supporting Documentation:

File Name: 602_36in_Example.pdf

Delete

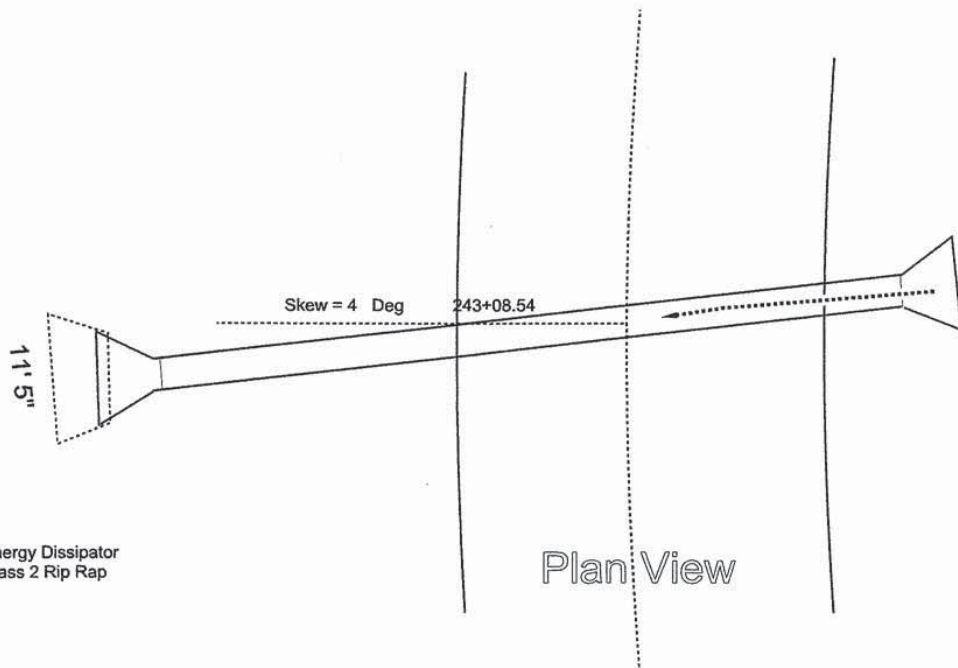
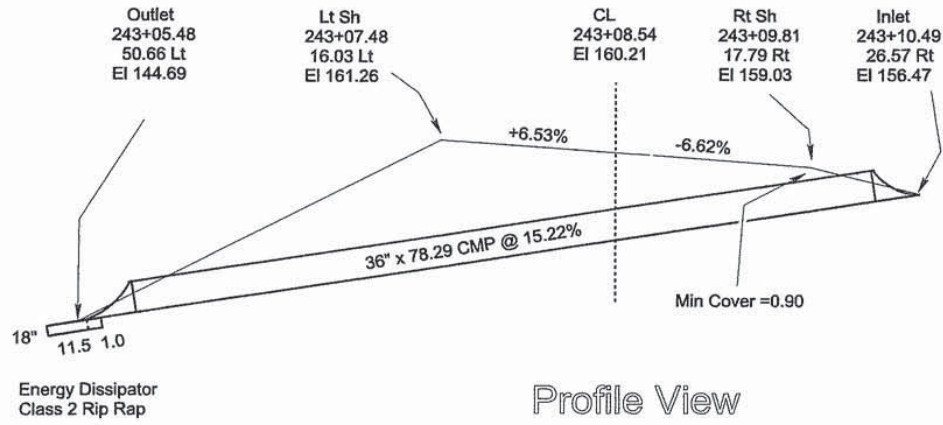
Add Document

Reference:

B I U [Icons]

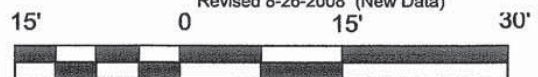
Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Asbuilt 36" x 78.29 CMP @ 243+08.54



- Notes:
1. 78.29 CMP includes End Sections @ 5' Each
 2. 1 Energy Dissipator
 3. Template = Subgrade Elevations

Submitted By: _____
 Drawn By: DM
 8-10-2008
 Revised 8-26-2008 (New Data)



Projects: WA PRA FVNP 100(1) Constructions: Progress Pay Periods 1 INS: Pay Note Return To Pr

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

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FHWA Pay Note

Pay Note: 48 INS Pay Item Number: 60510-0700 Line Number: A 0680
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: 6-INCH COLLECTOR PIPE

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	350.0	\$8.00	LNFT	\$2,800.00	350.0	\$2,800.00	350.0	\$2,800.00	0.00
CON01	350.0	\$8.00	LNFT	\$2,800.00	350.0	\$2,800.00	350.0	\$2,800.00	0.00

Pay Note Date*: 09-27-2012

Entries:

Pay Note Entry #1

Work Date Start Date*: 09-26-2012

Work Date End Date*: 09-26-2012

Location/Description*:
 Crew Installed 308 ft of Collector Pipe in the subex area from STA 34+915 to 35+010

CON01 Main account Quantity:
 308.0 LNFT

Remarks/Calculations:
 *See supporting sketch documentation

CON01 Main account Quantity: 308.0

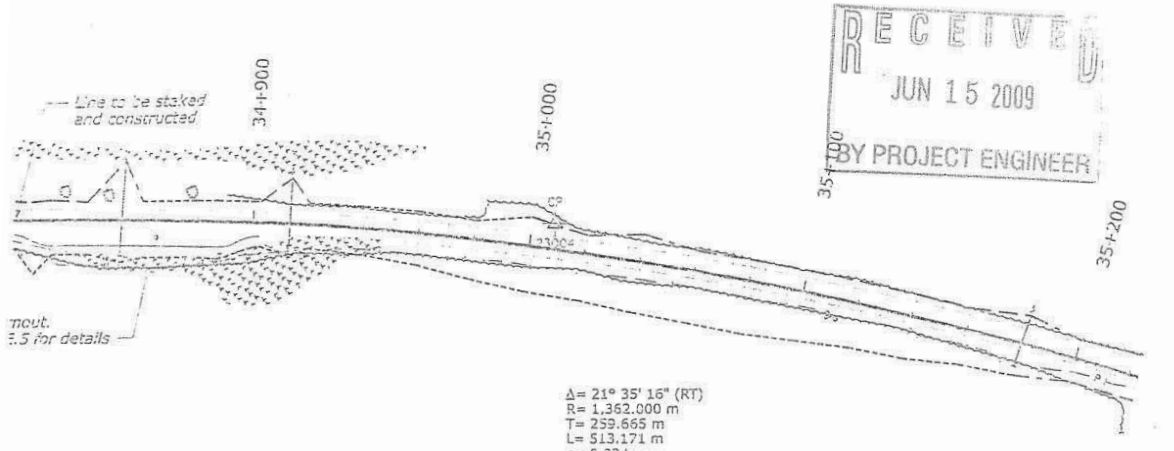
Total Pay Note Quantity: 308.0 LNFT
 Total Production Days: 1
 Production Rate: 308 LNFT/Day
 Measured By*: Bob COE
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final

Supporting Documentation: File Name: 60501_Collector_Pipe_support.pdf

Reference:

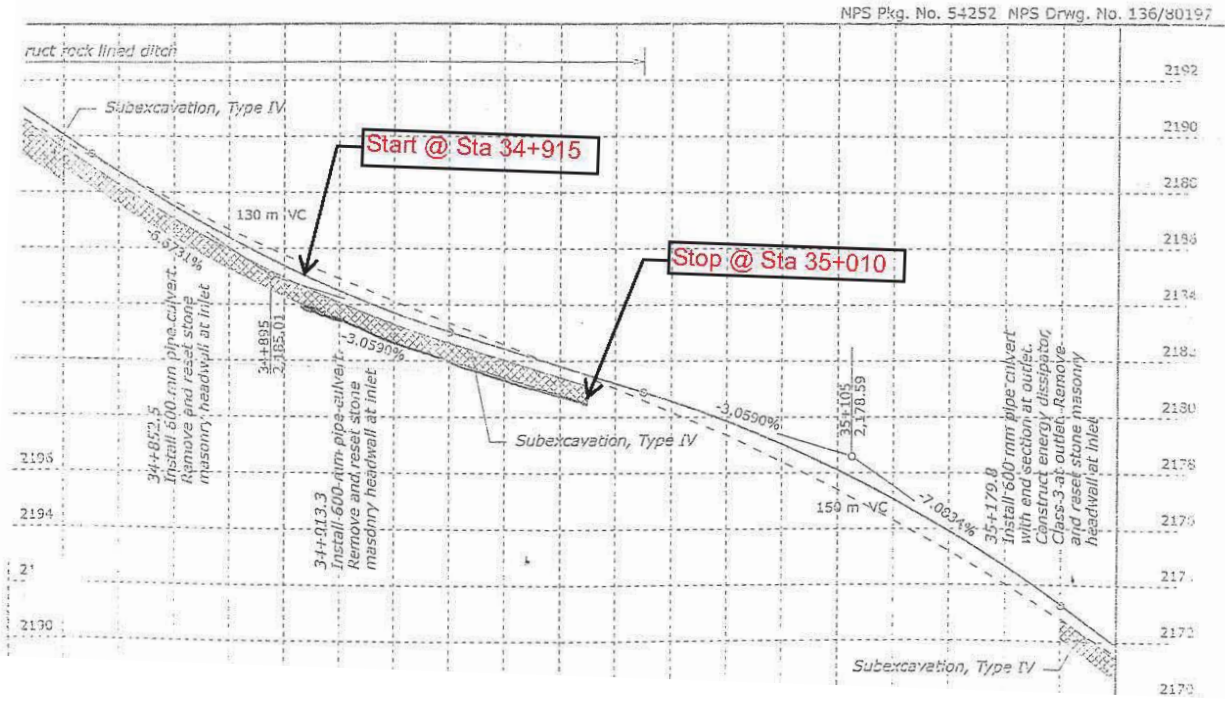
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Project Name: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item No. 60510-0700 6 inch collector pipe
 Measured by: John Smith 6/06/2009



TOPSOIL WASTE		
STATION TO STATION	SIDE LT / RT	QUANTITY m3
760.000	3++950.000	LT 94

LEGEND:
 Designated wetlands



NPS Pkg. No. 54252 NPS Drwg. No. 136/80197

Projects: WA PRA FVNP 100(1) Constructions: Progress Pay Periods 1 INS: Pay Note Return To Pr

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

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FHWA Pay Note

Pay Note: 14 INS Pay Item Number: 60801-0300 Line Number: A 0700
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: PAVED WATERWAY, TYPE 3

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	600	\$45.00	SQYD	\$27,000.00	600	\$27,000.00	600	\$27,000.00	0.00
CON01	600	\$45.00	SQYD	\$27,000.00	600	\$27,000.00	600	\$27,000.00	0.00

Pay Note Date*: 03-31-2014

Entries:

Pay Note Entry #1

Work Date Start Date*: 04-16-2014

Work Date End Date*: 04-23-2014

Location/Description*:
 STA 78+15 to STA 92+28
 (Length 1413') x (Avg Width 3.4') = 4804.2 SQFT = 533.75 SQYD

CON01 Main account Quantity:
 533.8 SQYD

Remarks/Calculations:
 *See attached spreadsheet and measurement drawing

CON01 Main account Quantity: 533.8

Total Pay Note Quantity: 533.8 SQYD
 Total Production Days: 5
 Production Rate: 106.76 SQYD/Day
 Measured By*: Bob COE
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final

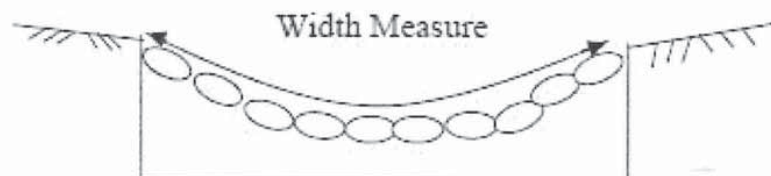
Supporting Documentation:
 File Name: 608_Paved_Waterway_type_3_Example.pdf

Reference:

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Project Name: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item No. **60801-0300 Paved Waterway, Type 3**
 Field Measured by: Fred Smith 7/06/2013
 Calculations by: John B. Contractor

DATE	STATION	STATION	WIDTH (ft)	RT. LT.	INSP.
	78+15	79+42	3.5	LT	
	79+42	82+33	3.1	LT	
	82+33	87+68	3.6		
	87+68	92+28	3.4		
		Length	1413	ft	
		Ave. Width	3.4	ft	



Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Project

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

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FHWA Pay Note

Pay Note: 42 INS Pay Item Number: 61701-1250 Line Number: A 0720
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: GUARDRAIL SYSTEM G4, TYPE 2, CLASS A WOOD POSTS

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	625.0	\$35.00	LNFT	\$21,875.00	625.0	\$21,875.00	625.0	\$21,875.00	0.00
CON01	625.0	\$35.00	LNFT	\$21,875.00	625.0	\$21,875.00	625.0	\$21,875.00	0.00

Pay Note Date*: 10-15-2012

Entries:

Pay Note Entry #1

Work Date Start Date*: 10-01-2012

Work Date End Date*: 10-12-2012

Location/Description*:
 installed 5924' for Guardrail System G-4
 from STA 20+60 - 553+74
 Total = 5924.00'
 *see attached quantity documentation spreadsheet

CON01 Main account Quantity:
 5924.0 LNFT

Remarks/Calculations:
 *See attached documentation/calculations

CON01 Main account Quantity: 5,924.0

Total Pay Note Quantity: 5,924.0 LNFT

Total Production Days: 1

Production Rate: 5,924 LNFT/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: Interim Final

Supporting Documentation:
 File Name: 617_Guardrail_System_Example.pdf

Reference:

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Project: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item: **61701-1250 Guardrail System G4**
 Field Measured by: Fred Smith 10/28/2009
 Calculations by: John B. Contractor

GUARDRAIL QUANTITIES				
10/28/2009				
Begin Station	End Station	Side	Item 61701-1250 Guardrail system G4, type 2, class A wood posts (lnft)	Item 61702-0600 Terminal section, type flared (each)
20+60	23+38	Lt	203.0	2
35+13	37+86	Rt	198.0	2
39+04	45+39	Rt	560.0	2
195+00	198+75	Lt	300.0	2
202+62	206+90	Lt	353.0	2
236+08	239+92	Rt	309.0	2
237+10	240+89	Lt	304.0	2
270+12	272+39	Rt	152.0	2
270+62	272+90	Lt	153.0	2
281+12	283+50	Rt	163.0	2
282+12	284+38	Lt	151.0	2
348+10	350+88	Lt	203.0	2
348+66	350+92	Rt	151.0	2
393+61	396+40	Rt	204.0	2
434+60	437+88	Lt	253.0	2
443+69	444+69	Rt	62.5	1
444+02	444+52	Lt	12.5	1
445+29	446+29	Lt	62.5	1
445+46	445+96	Rt	12.5	1
484+50	486+83	Rt	195.5	2
484+98	486+12	Lt	76.5	1
511+62	514+90	Rt	253.0	2
512+60	516+38	Lt	303.0	2
522+10	526+42	Lt	357.0	2
523+62	525+88	Rt	151.0	2
553+23	557+89	Rt	391.0	2
553+74	558+39	Lt	390.0	2
Total			5924.0 LNFT	49 EA

Projects: WA PRA FVNP 100(1)... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Proj

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 41 INS Pay Item Number: 61702-0600 Line Number: A 0740
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: **TERMINAL SECTION, TYPE FLARED**

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	22	\$3,000.00	EACH	\$66,000.00	22	\$66,000.00	22	\$66,000.00	0.00
CON01	22	\$3,000.00	EACH	\$66,000.00	22	\$66,000.00	22	\$66,000.00	0.00

Pay Note Date*: 09-24-2013

Entries:

Pay Note Entry #1

Work Date Start Date*: 09-02-2013

Work Date End Date*: 09-23-2013

Location/Description*: **B I U** Installed terminal sections at locations between STA 20+60 and STA 558+39
 Total = 49 each

CON01 Main account Quantity: 49 EACH

Remarks/Calculations: **B I U** *See attached quantity documentation for locations

CON01 Main account Quantity: 49

Total Pay Note Quantity: 49 EACH
 Total Production Days: 1
 Production Rate: 49 EACH/Day
 Measured By*: Bob COE
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final

Supporting Documentation: File Name: 61701_Guardrail_support.pdf

Reference: **B I U**

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Project: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item: **61701-1250 Guardrail System G4**
 Field Measured by: Fred Smith 10/28/2009
 Calculations by: John B. Contractor

GUARDRAIL QUANTITIES				
10/28/2009				
Begin Station	End Station	Side	Item 61701-1250 Guardrail system G4, type 2, class A wood posts (lnft)	Item 61702-0600 Terminal section, type flared (each)
20+60	23+38	Lt	203.0	2
35+13	37+86	Rt	198.0	2
39+04	45+39	Rt	560.0	2
195+00	198+75	Lt	300.0	2
202+62	206+90	Lt	353.0	2
236+08	239+92	Rt	309.0	2
237+10	240+89	Lt	304.0	2
270+12	272+39	Rt	152.0	2
270+62	272+90	Lt	153.0	2
281+12	283+50	Rt	163.0	2
282+12	284+38	Lt	151.0	2
348+10	350+88	Lt	203.0	2
348+66	350+92	Rt	151.0	2
393+61	396+40	Rt	204.0	2
434+60	437+88	Lt	253.0	2
443+69	444+69	Rt	62.5	1
444+02	444+52	Lt	12.5	1
445+29	446+29	Lt	62.5	1
445+46	445+96	Rt	12.5	1
484+50	486+83	Rt	195.5	2
484+98	486+12	Lt	76.5	1
511+62	514+90	Rt	253.0	2
512+60	516+38	Lt	303.0	2
522+10	526+42	Lt	357.0	2
523+62	525+88	Rt	151.0	2
553+23	557+89	Rt	391.0	2
553+74	558+39	Lt	390.0	2
Total			5924.0 LNFT	49 EA

Projects: WA PRA FVNP 100(1)... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Proj

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

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FHWA Pay Note

Pay Note: 15 INS Pay Item Number: 62201-2850 Line Number: A 0760
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: MOTOR GRADER, 12 FOOT MINIMUM BLADE

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	100.0	\$175.00	HOUR	\$17,500.00	100.0	\$17,500.00	100.0	\$17,500.00	0.00
CON01	100.0	\$175.00	HOUR	\$17,500.00	100.0	\$17,500.00	100.0	\$17,500.00	0.00

Pay Note Date*: 03-29-2014

Entries:

Pay Note Entry #1

Work Date Start Date*: 03-28-2014

Work Date End Date*: 03-28-2014

Location/Description*:
 Performing extra work on detour route per direction of CO: 6.00 Hours
 *see Contractor Daily Record for 3/28/2014

CON01 Main account Quantity: 6.00 HOUR

Remarks/Calculations:
 *See CDR for 3/28/2014

CON01 Main account Quantity: 6.0

Total Pay Note Quantity: 6.0 HOUR
 Total Production Days: 1
 Production Rate: 6 HOUR/Day
 Measured By*: Bob COE
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final

Supporting Documentation: File Name: Contractor_Daily_Record_3-28-2014.docx

Reference:
 Performing extra work on detour route per direction of CO: 6.00 Hours
 *see Contractor Daily Record for 3/28/2014

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

STATION	PLAN (m2)	SLURRY UNITS	DATE	INITIALS
0+035				
	944	1	9/28/92	JKD
0+055				
	1002	1	9/28/92	JKD
1+206				
	985	1	9/28/92	JKD
1+278				
	1907	2	9/28/92	JKD
1+322				
	990	1	9/28/92	JKD
1+400				
	1020	1	9/29/92	JKD
1+520				
	1000	1	9/29/92	JKD
1+599				
	995	1	9/29/92	JKD
1+624				
	1000	1	9/29/92	JKD
PAGE TOTAL		10		

1 SLURRY UNIT = 4000 LITERS OF WATER PL				
8.810 kg BULK SEED				
(6.725 kg LIVE SEED)				
22.7 kg 10:20:10 FERTILIZER				
13.6 kg 38:0:0 FERTILIZER				
AND MULCH FOR TRACER:				
16.812 kg PER SLURRY UNIT				
10 SLURRY UNITS PER HECTARE				
10000 square meters = 1 hectare				
10000/10 = 1000 m ² PER SLURRY UNIT				

Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#) [Return To Proj](#)

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

* indicates a required field

FHWA Pay Note

Pay Note: 18 INS Pay Item Number: 63316-1000 Line Number: A 0820
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: REMOVE AND RESET SIGN

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	40.00	\$250.00	EACH	\$10,000.00	40.00	\$10,000.00	40.00	\$10,000.00	0.00
CON01	40.00	\$250.00	EACH	\$10,000.00	40.00	\$10,000.00	40.00	\$10,000.00	0.00

Pay Note Date*: 03-25-2014 [select](#) [clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*: 03-24-2014 [select](#) [clear](#)
 Work Date End Date*: 03-25-2014 [select](#) [clear](#)
 Location/Description*:
 Signs Removed and Reset = 19 each
 *see attached supporting documnetation spreadsheet

CON01 Main account Quantity:
 19.00 EACH

Remarks/Calculations:
 *See attached documentation

[Delete](#)
[Add Entry](#)

CON01 Main account Quantity: 19.00

Total Pay Note Quantity: 19.00 EACH
 Total Production Days: 1
 Production Rate: 19 EACH/Day
 Measured By*: Bob COE
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final

Supporting Documentation:
 File Name: Remove_Reset_Sign_support.pdf
[Delete](#)
[Add Document](#)

Reference:

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

Project Name: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item No. **63316-1000 Remove and Reset Sign**
 Measured by: John Smith 3/25/2015

Removed/ Reset	Work Completed	Station	Side	Sign
		5+75	RT	Reverse Turn Sign Right
		11+75	RT	Deer Crossing (symbol)
		14+50	LT	Pavement Ends
x	3/24/2014	25+68	RT	Reverse Turn Sign Right
x	3/24/2014	54+95	RT	Lights On for Safety
x	3/24/2014	107+75	RT	MP 1
x	3/24/2014	160+55	RT	MP 2
x	3/24/2014	213+35	RT	MP 3
x	3/24/2014	266+15	RT	MP 4
x	3/24/2014	318+95	RT	MP 5
x	3/24/2014	371+75	RT	MP 6
x	3/24/2014	424+55	RT	MP 7
x	3/25/2014	450+35	RT	MP 8
x	3/25/2014	450+44	LT	National Forest
x	3/25/2014	478+69	RT	MP 9
x	3/25/2014	530+15	RT	MP 10
x	3/25/2014	563+50	RT	Rd #7830
x	3/25/2014	582+95	RT	Rd #7860
x	3/25/2014	605+00	RT	MP 11
x	3/25/2014	607+80	LT	Intersection Ahead
x	3/25/2014	610+64	LT	Lights On For Safety
x	3/25/2014	613+34	LT	Deer Crossing (symbol)

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 30 INS Pay Item Number: 63401-0300 Line Number: A 0840
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: PAVEMENT MARKINGS, TYPE B, SOLID (YELLOW)

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	52,000	\$0.75	LNFT	\$39,000.00	52,000	\$39,000.00	52,000	\$39,000.00	0.00
CON01	52,000	\$0.75	LNFT	\$39,000.00	52,000	\$39,000.00	52,000	\$39,000.00	0.00

Pay Note Date*: 09-24-2013

Entries:

Pay Note Entry #1

Work Date Start Date*: 09-20-2013

Work Date End Date*: 09-20-2013

Location/Description*:
 Pavement Markings, Type B, Solid (Yellow)
 Requesting payment for 27,795.0 LNFT of solid yellow paint.

CON01 Main account Quantity: 27795 LNFT

Remarks/Calculations:
 *See attached documentation:
 (a) quantity spreadsheet
 (b) striping layout table

CON01 Main account Quantity: 27,795

Total Pay Note Quantity: 27,795 LNFT
 Total Production Days: 1
 Production Rate: 27,795 LNFT/Day
 Measured By*: Bob COE
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final

Supporting Documentation: File Name: 63401 -0300 Pavement Markings, Type B, Solid (Yellow) _support.pdf

Reference:

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

SECTION 600

Project Name: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item No. **63401-0300 Pavement Markings, Type B, Solid (Yellow)**
 Field Measurements by: Fred Smith 7/06/2013
 Calculations by: John B. Contractor 7/07/2013

North Park Road	Beginning Station	Ending Station	Length	
	27+900	38+330	10430.00	LNFT
Double Yellow	27+900 to 28+700 ✓	4*800 ✓	3200.00	✓
Single Yellow	28+700 to 28+840 ✓ NB	2*140 ✓	280.00	✓
Single Yellow	29+300 to 29+520 ✓ SB	2*220 ✓	440.00	✓
Double Yellow	29+520 to 31+600 ✓	4*2080 ✓	8320.00	✓
Single Yellow	31+600 to 31+760 ✓ NB	2*160 ✓	320.00	✓
Single Yellow	32+220 to 32+420 ✓ SB	2*200 ✓	400.00	✓
Double Yellow	32+420 to 33+100 ✓	4*680 ✓	2720.00	✓
Single Yellow	33+100 to 33+300 ✓ NB	2*200 ✓	400.00	✓
Single Yellow	34+080 to 34+320 ✓ SB	2*240 ✓	480.00	✓
Double Yellow	34+320 to 35+820 ✓	4*1500 ✓	6000.00	✓
Single Yellow	35+820 to 36+800 ✓ NB	2*980 ✓	1960.00	✓
Double Yellow	36+800 to 37+500 ✓	4*700 ✓	2800.00	✓
Single Yellow	37+500 to 37+700 ✓ SB	2*200 ✓	400.00	✓
Single Yellow	38+220 to 38+330 ✓ NB	2*110 ✓	220.00	✓
			27940.00	LNFT
Gap	27+960 to 27+990 ✓		(28.00)	✓
Gap	28+120 to 28+150 ✓		(27.10)	✓
Gap	32+660 to 32+685 ✓		(23.60)	✓
Gap	32+725 to 32+750 ✓		(18.88)	✓
Gap	32+900 to 32+925 ✓		(24.32)	✓
Gap	32+960 to 32+980 ✓		(23.08)	✓
			(144.98)	LNFT
SOLID YELLOW GRAND TOTAL			27795.02	LNFT

RECEIVED
 JUL 01 2010
 BY PROJECT ENGINEER

John B. Contractor
 7/16/2010

Station	Striping Layout
BOP 27+860	Double Yellow
28+700	Passing zone N bound
28+840	Single skip
29+300	Passing zone S bound
29+520	Double Yellow
31+600	Passing zone N bound
31+760	Single skip
32+220	Passing zone S bound
32+420	Double Yellow
33+100	Passing zone N bound
33+300	Single skip
34+080	Passing zone S bound
34+320	Double Yellow
35+820	Passing zone N bound
36+800	Double Yellow
37+500	Passing zone S bound
37+700	Single skip
38+220	Passing zone N bound
EOP 38+330	Existing markings

Projects: WA PRA FVNP 100(1) Constructions: Progress Pay Periods 1 INS: Pay Note Return To Pr

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 44 INS Pay Item Number: 63401-0400 Line Number: A 0860
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: PAVEMENT MARKINGS, TYPE B, BROKEN

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	52,000	\$0.75	LNFT	\$39,000.00	52,000	\$39,000.00	52,000	\$39,000.00	0.00
CON01	52,000	\$0.75	LNFT	\$39,000.00	52,000	\$39,000.00	52,000	\$39,000.00	0.00

Pay Note Date*: 09-16-2013

Entries:

Pay Note Entry #1

Work Date Start Date*: 09-12-2013

Work Date End Date*: 09-12-2013

Location/Description*:
 Pavement Markings, Type B, Broken (Yellow)
 Crew Painted 1,285 LF of broken yellow
 STA 279+00 160 ft = 160 LF
 STA 421+95 80 ft = 80 LF
 STA 523+30 400 ft = 400 LF
 STA 566+90 400 ft = 400 LF
 STA 567+90 100 ft = 100 LF
 STA 573+15 145 ft = 145 LF
 Total = 1,285 LF

CON01 Main account Quantity:
 1285 LNFT

Remarks/Calculations:
 *See attached excel table of measured quantities

CON01 Main account Quantity: 1,285

Total Pay Note Quantity: 1,285 LNFT
 Total Production Days: 1
 Production Rate: 1,285 LNFT/Day
 Measured By*: Bob COE
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final

Supporting Documentation:
 File Name: 634_Pavement Markings, Type B, Broken (Yellow)_Example.pdf

Reference:

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Project Name: Sunriver to Mt. Bahelor							
Project Number: OR PFH 244-1(1)							
Item No. 63401-0400 Pavement Markings, Type B, Broken							
Field Measurements by: Fred Smith 7/06/2013							
Calcs by: John B, Contractor 7/08/2013							
Type: ddy= Double Double Yellow, dy= Double Yellow, sd= Solid/Broken, d= Broken, g= Gap							
Station	Distance	Type	Double Yellow	Single Yellow	Broken	Gap	
27335							
27375	40	ddy	160				
27740	365	dy	730				
27900	160	sd		160	160 ✓		
42115							
42195	80	sd		80	80 ✓		
46150	3955	dy	7910				
46250	100	g				100	
49585	3335	dy	6670				
50625							
50950	325	dy	650				
51930	51930	d					
52330	400	sd		400	400 ✓		
53875	1545	dy	3090				
54300							
54525	225	dy	450				
54796							
56290	1494	dy	2988				
56690	400	sd		400	400 ✓		
56790	100	d			100 ✓		
57170							
57315	145	sd		145	145 ✓		
59990	2675	dy	5350				
60080	90	g				90	
60330	250	dy	500				
Colter North	1130	dy	2260				
	Less Radius		-50				
Colter middle	380	dy	760				
	Less Radius		-112				
Colter	530	dy	1060				

	South	Less Radius		-52			
	Leeks	861	dy	1722			
	South	Less Radius		-46			
	Leeks						
	North	453	dy	906			
	Totals single coat ✓			34946	1185	1285 ✓	190

Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Pro

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA
 Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 17 INS Pay Item Number: 63504-1000 Line Number: A 0880
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: TEMPORARY TRAFFIC CONTROL, CONSTRUCTION SIGN

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	125.000	\$20.00	SQFT	\$2,500.00	125.000	\$2,500.00	125.000	\$2,500.00	0.00
CON01	125.000	\$20.00	SQFT	\$2,500.00	125.000	\$2,500.00	125.000	\$2,500.00	0.00

Pay Note Date*: 03-27-2014

Entries:

Pay Note Entry #1

Work Date Start Date*: 03-13-2014

Work Date End Date*: 03-13-2014

Location/Description*:

B I U [Icons]

2 each Road Work Ahead (x2) 36"x36" = 18 SQFT
 2 each One Lane Road Ahead (x2) 36"x36" = 18 SQFT
 2 each Flagger (symbol) (x2) 36"x36" = 18 SQFT
 2 each Be Prepared To Stop (x2) 36"x36" = 18 SQFT
 2 each Road Work 1000 FT (x2) 36"x36" = 18 SQFT
 Total = 90 SQFT

Refer to Section 635.25(a), 50% payment upon install.
 (0.5)(90SQFT) = 45 SQFT

Paynote 1 of 3 in Series

CON01 Main account Quantity: 45.0 SQFT

Remarks/Calculations:

B I U [Icons]

CON01 Main account Quantity: 45.000

Total Pay Note Quantity: 45.000 SQFT
 Total Production Days: 1
 Production Rate: 45.000 SQFT/Day
 Measured By*: Bob COE
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final
 Supporting Documentation:

Reference:

B I U [Icons]

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Pro

Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) **Project Name:** FORT VANCOUVER NATIONAL PARK **Contract Number:** DTFH-C2014 **States:** WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 62 INS **Pay Item Number:** 63504-1000 **Line Number:** A 0880
Period: 1 INS **Pay Item Type:** Normal pay item **Contract Mod #:**
Description: TEMPORARY TRAFFIC CONTROL, CONSTRUCTION SIGN

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	125.000	\$20.00	SQFT	\$2,500.00	125.000	\$2,500.00	125.000	\$2,500.00	0.00
CON01	125.000	\$20.00	SQFT	\$2,500.00	125.000	\$2,500.00	125.000	\$2,500.00	0.00

Pay Note Date*: 04-19-2014

Entries:

Pay Note Entry #1

Work Date Start Date*: 04-15-2014
 Work Date End Date*: 04-15-2014
 Location/Description*:
 New signs this period:
 2 each Begin Construction (x2) 36"x36" = 18 SQFT
 2 each End Construction (x2) 36"x36" = 18 SQFT
 Total = 36 SQFT
 NOTE: +50% of contract complete; therefore pay an additional 25% per Section 635.25(b)
 from previous Paynote pay: (25%)(90 SQFT) = 22.5 SQFT
 Current Paynote: (50% + 25%)(36 SQFT) = 27 SQFT
 Total for this payment: 49.5 SQFT

Paynote 2 of 3 in Series

CON01 Main account Quantity: 49.5 SQFT

Remarks/Calculations:

CON01 Main account Quantity: 49.500

Total Pay Note Quantity: 49.500 SQFT
 Total Production Days: 0
 Production Rate: 0.000 SQFT/Day
 Measured By*: Doug J Worley
 FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: Interim Final
 Supporting Documentation:

Reference:

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#) Return To Pro

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) **Project Name:** FORT VANCOUVER NATIONAL PARK **Contract Number:** DTFH-C2014 **States:** WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 63 INS **Pay Item Number:** 63504-1000 **Line Number:** A 0880
Period: 1 INS **Pay Item Type:** Normal pay item **Contract Mod #:**
Description: TEMPORARY TRAFFIC CONTROL, CONSTRUCTION SIGN

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	125.000	\$20.00	SQFT	\$2,500.00	125.000	\$2,500.00	125.000	\$2,500.00	0.00
CON01	125.000	\$20.00	SQFT	\$2,500.00	125.000	\$2,500.00	125.000	\$2,500.00	0.00

Pay Note Date*: 06-15-2014

Entries:

Pay Note Entry #1

Work Date Start Date*: 06-10-2014

Work Date End Date*: 06-10-2014

Location/Description*:

B I U [Icons]

No new construction sign installation.
 NOTE: per Section 635.25(c) pay remaining portion when all TTC devices are removed from the project.
 Total installed: 90 + 36 = 126 SQFT
 Total paid to date: 45 SQFT + 49.5 SQFT = 94.5 SQFT
 Remaining balance: 126 SQFT - 94.5 SQFT = 31.5 SQFT

Paynote 3 of 3 in Series

CON01 Main account Quantity: 31.5 SQFT

Remarks/Calculations:

B I U [Icons]

CON01 Main account Quantity: 31.500

Total Pay Note Quantity: 31.500 SQFT

Total Production Days: 0

Production Rate: 0.000 SQFT/Day

Measured By*: Doug J Worley

FHWA Inspector:

Contractor Inspector:

Interim/Final*: Interim Final

Supporting Documentation:

Reference:

B I U [Icons]

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FORM FHWA 17-348 (12/2007)



U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 Western Federal Lands Highway Division
 610 E. 5th St. Vancouver, Washington 98661

FP-03 109.01

(a) Project Name: _____
 Project Number: _____
 (b) Item Number: _____
 Item Description: _____
 (c) Date work performed: _____

Date Stamp
Copy Stamp

Daily Record of Inspection & Activities

(f) & (g) Calculations and Supporting Details*:

Name of TCS	Day <input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> T <input type="checkbox"/> W <input type="checkbox"/> T <input type="checkbox"/> F <input type="checkbox"/> S	Temperature High ^{°F} Low ^{°F}	Name of Technician(s)
Weather <input type="checkbox"/> Clear <input type="checkbox"/> Pt. Cloudy <input type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Snow	Wind Conditions <input type="checkbox"/> Calm <input type="checkbox"/> Light <input type="checkbox"/> Strong	Arrival Time	Departure Time

(d) Location/Today's Operations:

Evidence Of An Accident	<input type="checkbox"/> Yes <input type="checkbox"/> No	Appropriate Number Of Flaggers Being Utilized	<input type="checkbox"/> Yes <input type="checkbox"/> No
Adequate Buffer Space	<input type="checkbox"/> Yes <input type="checkbox"/> No	Flaggers Equipped With Proper PPE	<input type="checkbox"/> Yes <input type="checkbox"/> No
Is the Work Area Protected	<input type="checkbox"/> Yes <input type="checkbox"/> No	Flaggers Stationed Proper Distance From Hazards	<input type="checkbox"/> Yes <input type="checkbox"/> No
Materials Properly Stored	<input type="checkbox"/> Yes <input type="checkbox"/> No	Flagger Stations Highly Visible	<input type="checkbox"/> Yes <input type="checkbox"/> No
Traffic Delays & Closures Meet Contract Specifications	<input type="checkbox"/> Yes <input type="checkbox"/> No	Advanced Warning Signs Installed Per Contract & MUTCD	<input type="checkbox"/> Yes <input type="checkbox"/> No

	Number Used	Number Stored	All Correct	Missing	Damaged	Adequate	Inadequate
Pilot Vehicle			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Flaggers			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Construction Signs			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Barricades			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Drums			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Vertical Panels			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Tubular Traffic Markers			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Pavement Markings			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Arrow Board			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Variable Message Board Message			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Temporary Concrete Barrier			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Other			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

Location (Station) Of Missing Or Damaged Devices

Maintenance Corrections Or Replacements

Date Last Cleaned: Cones Lights Signs Barricades

*Attach additional sheets if necessary.

(h) Name of person measuring work: _____

(e) Measured Quantity:	1 Day
-------------------------------	-------

(i) Interim Measurement Final Measurement

I certify the above measurements and calculations are correct and the total quantity is subject to direct payment for the item identified.

 (j) Contractor Representative

FHWA Use Only	
Verified By:	_____
Construction Inspector	_____
Approved	Entered To Record
_____	Checked By: _____
FHWA Representative	Date: _____

Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Proj

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) **Project Name:** FORT VANCOUVER NATIONAL PARK **Contract Number:** DTFH-C2014 **States:** WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 43 INS **Pay Item Number:** 63509-1000 **Line Number:** A 0920
Period: 1 INS **Pay Item Type:** Normal pay item **Contract Mod #:**
Description: TEMPORARY TRAFFIC CONTROL, FLAGGER

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	500.0	\$53.00	FXHR	\$26,500.00	500.0	\$26,500.00	500.0	\$26,500.00	0.00
CON01	500.0	\$53.00	FXHR	\$26,500.00	500.0	\$26,500.00	500.0	\$26,500.00	0.00

Pay Note Date*: 09-14-2012

Entries:

Pay Note Entry #1

Work Date Start Date*: 09-10-2012

Work Date End Date*: 09-10-2012

Location/Description*:
 North End of Project:
 F1 @ STA 565+00 = 8 Hours
 F2 @ STA 596+00 = 8 Hours

CON01 Main account Quantity:
 16.0 FXHR

Remarks/Calculations:
 *See attached sketch/flagger locations

CON01 Main account Quantity: 16.0

Total Pay Note Quantity: 16.0 FXHR

Total Production Days: 1

Production Rate: 16.0 FXHR/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

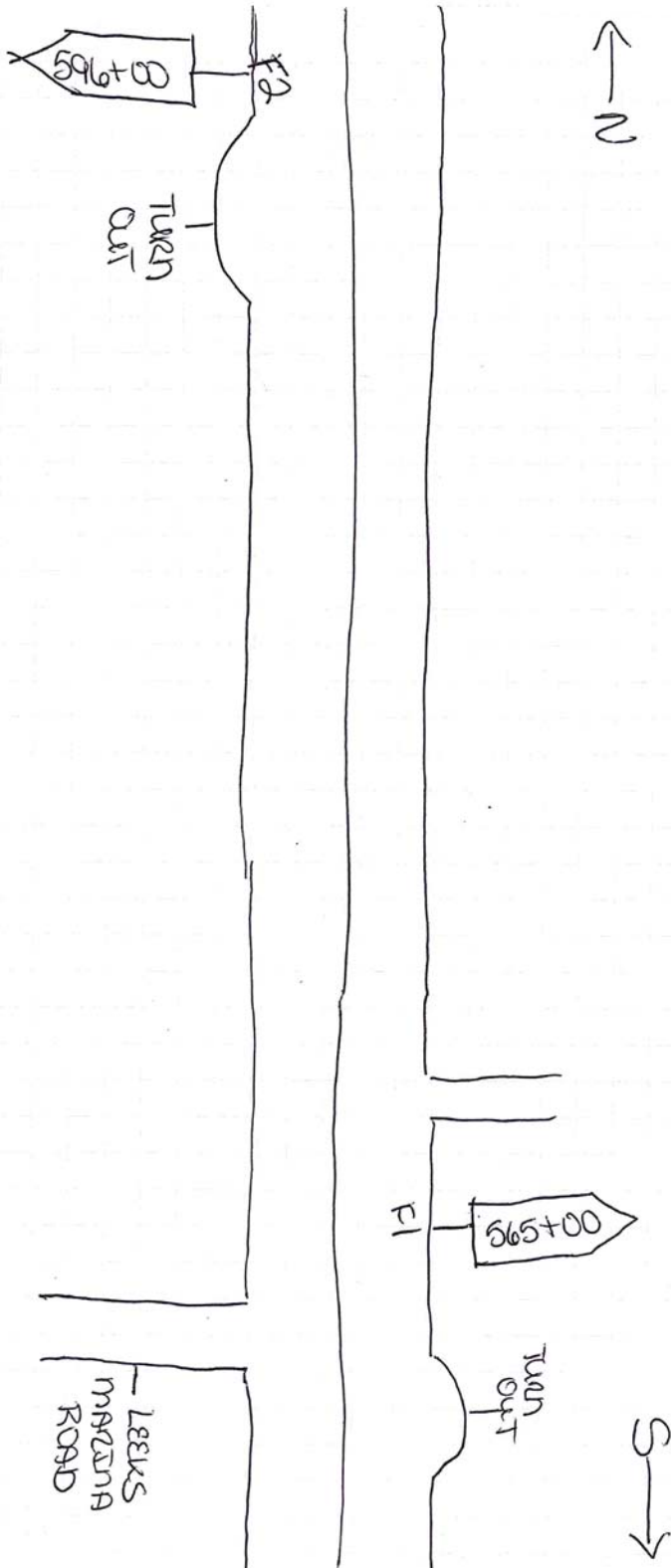
Interim/Final*: Interim Final

Supporting Documentation:
 File Name: 63509 TTC Flagger_support.pdf

Reference:

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Project: FORT VANCOUVER NATIONAL PARK
Project Number: WA PRA FVNP 100(1)
Item: **63509 Temporary Traffic Control, Flagger**
Date: 9/10/2012
Shoulder Reconstruction Flagger Layout



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SEP 14 2012
BY PROJECT ENGINEER

Appendices

A. Guidelines for Partial Payment _____	Page A-1
B. Haul Vehicle Volume Calculations _____	Page B-1
C. Water Truck Volume Calculations _____	Page C-1
D. Volume Correction Factors for Asphalt _____	Page D-1
E. Reinforcing Steel Weights and Marks _____	Page E-1
F. Pile Driving Example _____	Page F-1
G. Metric Conversion Factors – General _____	Page G-1
H. Example of Contractor's Invoice and Support Data _____	Page H-1
I. Slope Stake Notes & Cross Section Examples, Including Culvert Staking__	Page I-1

Appendix A

APPENDIX 'A'

Guidelines for percentage payments for partially complete work

<u>Description</u>	<u>Allowance (Cumulative)</u>
Clearing and Grubbing	
• Felled and slashed	35
• Bucked and piled (slashings, brush and logs)	60
• Grubbed	75
• Burned or chipped and removed	98
• Substantially complete including cleanup	100
Excavation and Embankment	
• Pioneered	5
• Drilled	20
• Blasted	35
• Roughed out to grade	85
• Roadbed finished to grade	90
• Slopes seeded	98
• Substantially complete including cleanup	100
Structural Excavation	
• Excavation complete	85
• Backfill complete	98
• Substantially complete including cleanup	100
Aggregate Courses	
• Crushed and stockpiled onsite	50
• Placed on roadway	80
• Spread, compacted and tested	98
• Substantially complete including cleanup	100
Asphalt Pavements	
• Aggregates crushed and stockpiled onsite	50
• Placed, compacted and tested	98
• Substantially complete including cleanup	100

PCC Pavement

- Forms set 35
- Concrete in place 90
- Forms removed and testing complete 98
- Substantially complete including cleanup 100

Concrete Structures

- Falsework erected 10
- Forming complete 20
- Concrete in place 80
- Forms removed 90
- Concrete tested and finished 98
- Substantially complete including cleanup 100

Steel Structures

- Falsework erected 10
- Steel in place 80
- Bolting and welding complete 90
- Painting complete 98
- Substantially complete including cleanup 100

Notes:

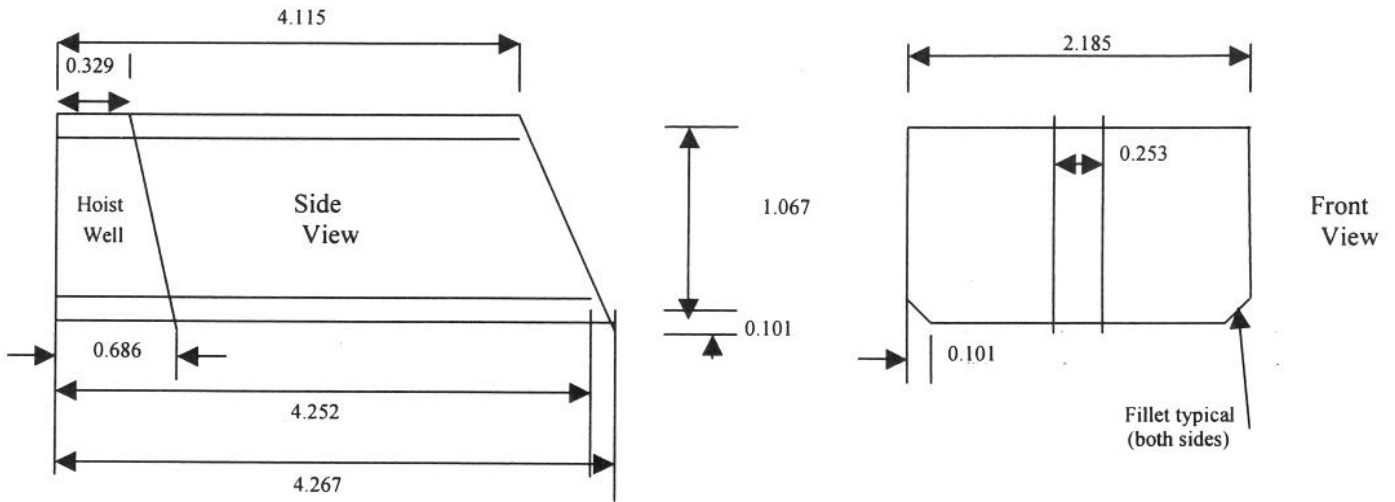
- (1) These percentages are typical. They may be adjusted based on a detailed analysis of circumstances on given project.
- (2) Whenever partially complete work entails continuing maintenance, an appropriate percentage should be retained to cover those costs.

Appendix B

Truck Measurement Example

Truck No. ? (tractor)
 Trailer No. ? (belly dump)
 License No. XXXXX

Project Name XXXXXXXXXXXXXXX
 Project Number XX XXX XXXX (X)



(dimensions are meters unless otherwise noted)

Volume

$$\frac{4.115 + 4.267}{2} \times 2.185 \times 1.067 = 9.771$$

Less Hoist Well

$$\frac{0.686 + 0.329}{2} \times 0.253 \times 1.067 = -0.137 \text{ (minus)}$$

Less Fillets

$$\frac{0.101 \times 0.101}{2} \times \frac{4.252 + 4.267}{2} \times 2 = -0.043 \text{ (minus)}$$

$$\text{Total Volume} = 9.591 \text{ m}^3$$

NOTE

The above computations are for illustration only, and not necessarily part of survey notes. However, to ensure measurements are adequate, the surveyor might make at least rough computations for complicated shapes.

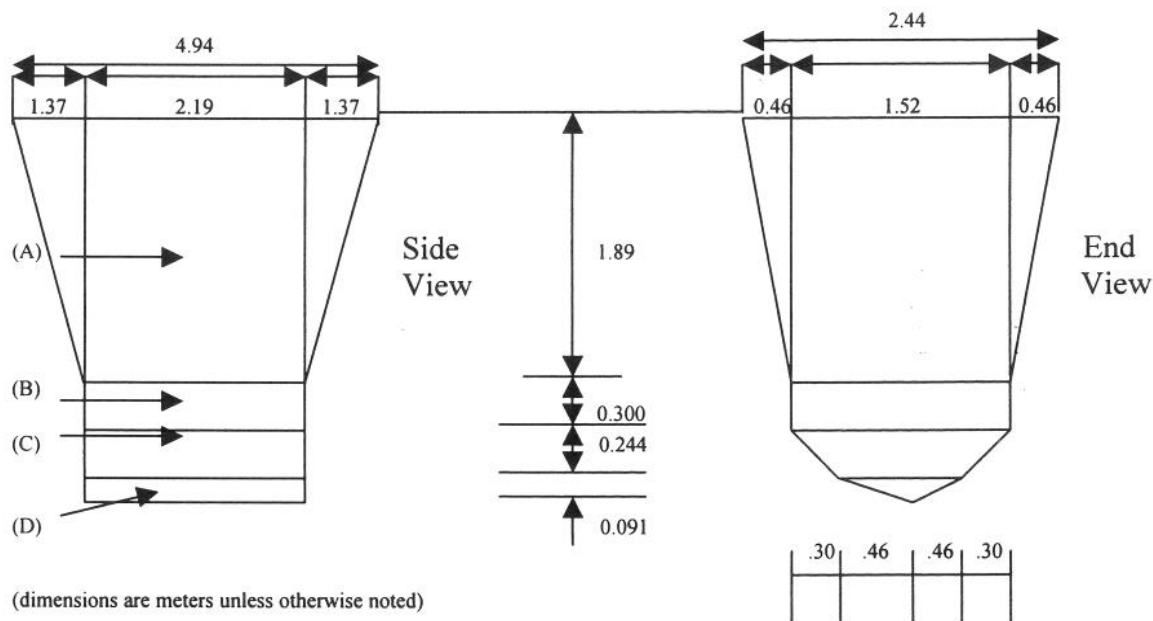
Composed By: _____

Checked By: _____

Truck Measurement Example

Truck No. ? (tractor)
Trailer No. ? (belly dump)

Project Name XXXXXXXXXXXXXXX
Project Number XX XXX XXXX (X)



Volume (A) (Use prismatic formula, $V = \frac{h}{b} (A_1 + (4A_m + A_2))$)

$h = 1.89$

$A_1 = 4.94 \times 2.44 = 12.05$

$A_2 = 2.19 \times 1.52 = 3.33$

$A_m = \frac{(4.94 + 2.19) \times (2.44 + 1.52)}{2} = 7.07$

$V = \frac{1.89}{b} (12.05 + (4 \times 7.07) + 3.33) = 13.753$

Volume (B)

$V = 2.19 \times 1.52 \times 0.30 = 0.999$

Volume (C)

$V = 2.19 \times \frac{1.52 + 0.92}{2} \times 0.244 = 0.652$

Volume (D)

$V = 2.19 \times \frac{0.92}{2} \times 0.091 = 0.092$

Total Volume = 15.496 m³

Composed By: _____

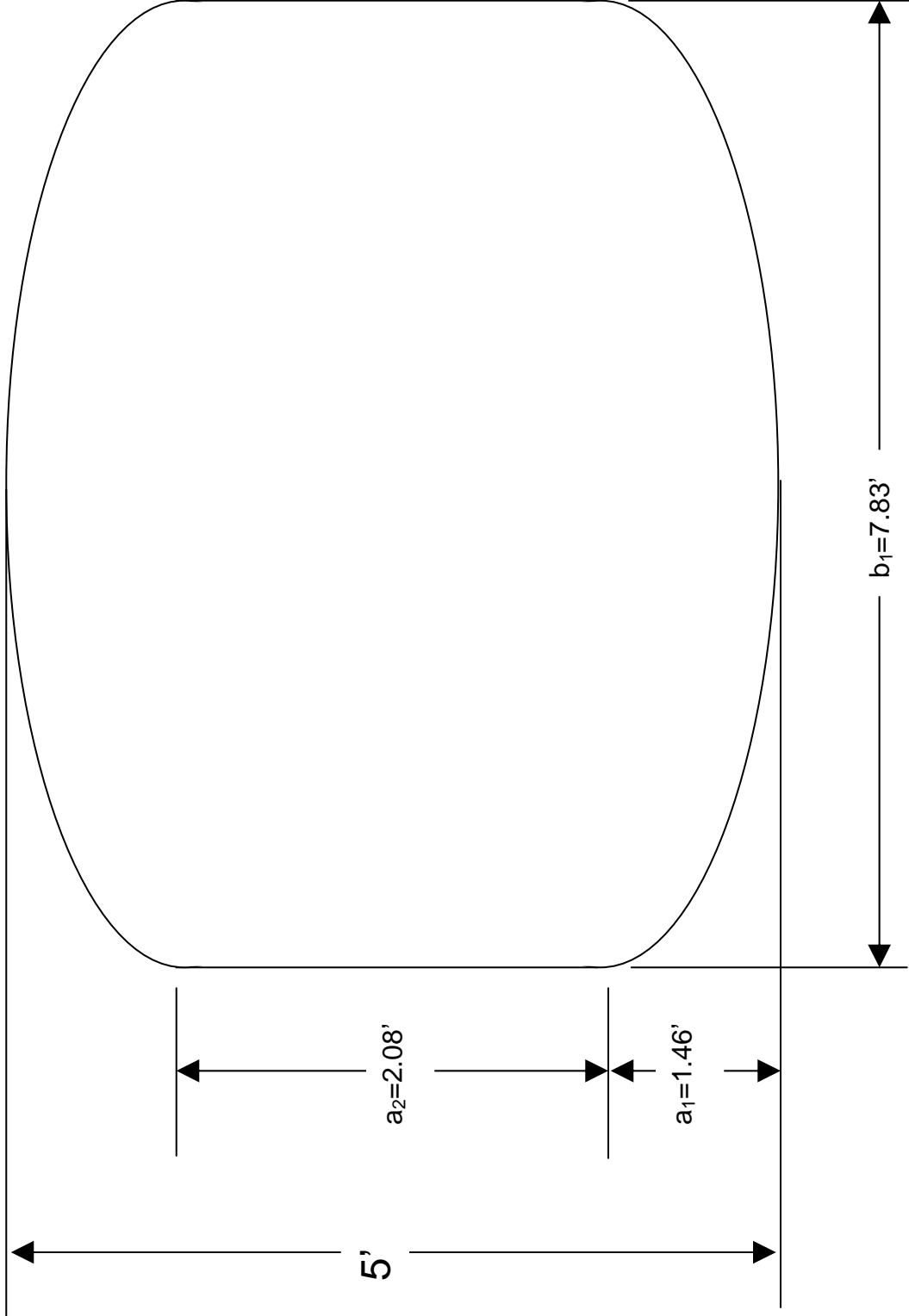
Checked By: _____

Appendix C

Water Truck Dimensions

142

Date _____



$$A_1 = \pi \cdot a_1 \cdot b_1$$

$$= \pi \cdot (1.46) \cdot (7.83/2)$$

$$= 17.98 \text{ SF}$$

$$A_2 = a_2 \cdot b_1$$

$$= (2.08) \cdot (7.83)$$

$$= 16.29 \text{ SF}$$

$$A_1 + A_2 = 34.27 \text{ SF}$$

$$\text{Volume} = \text{Area} \times \text{Length}$$

$$= (34.27) (17.25)$$

$$= 591.16 \text{ FT}^3$$

$$1 \text{ ft}^3 = 7.48 \text{ Gallons}$$

$$\text{Total Volume} = 4421.9 \text{ gal}$$

$$\text{Total Volume} = 4.4 \text{ MGAL}$$

Truck Measure Agreement

Dated _____

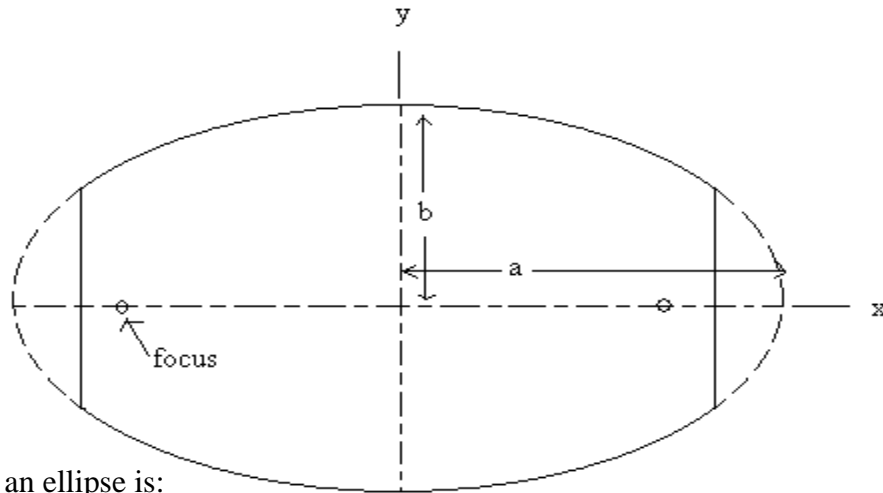
FHWA Representative

Contractor Representative

Water truck # 143 Volume Calculation

The cross section of the water tank was determined to be an ellipse with both ends of the major axes cut off vertically.

The foci were determined by taping two ends of a string to the tank such that a triangle could be formed at any point on the tank edge using a third point on the span of the string. The locations of the two string ends where this occurs are the locations of the foci.



The equation of an ellipse is:

$$\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1, \text{ point } (h,k) \text{ represents the center of the ellipse } (0,0)$$

$$\therefore \text{ Through manipulation: } y = \pm b\sqrt{1-x^2/a^2}$$

The area of the portion of the ellipse that represents the cross section of the tank can be expressed as:

$$A = \int_{x_1}^{x_2} \int_{y=-b\sqrt{1-x^2/a^2}}^{y=b\sqrt{1-x^2/a^2}} dy dx, \text{ and } |-x_1| = x_2, \therefore A = 4b \int_0^{x_2} \left(1-x^2/a^2\right)^{\frac{1}{2}} dx$$

TI 89 integration was used w/ measured values of $a = 1.330\text{m}$, $b = 0.765\text{m}$, $x_2 = 1.230\text{m}$

$$A = 3.12 \text{ m}^2$$

The tank length was measured to be 4.67m

$$\therefore \nabla = A \times L = 3.12 \times 4.67 = \mathbf{14.57\text{m}^3} = \mathbf{3846.5\text{gallons}}$$

Appendix D

TEMPERATURE-VOLUME CORRECTIONS FOR ASPHALTIC MATERIALS (CUSTOMARY UNITS)

GROUP 0 – SPECIFIC GRAVITY AT 60°F OF 0.850 TO 0.966

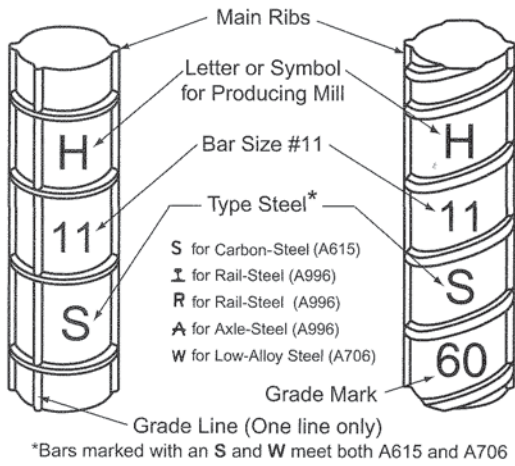
LEGEND: t = Observed Temperature in Degrees Fahrenheit

M = Multiplier for Correcting Oil Volumes to the Basis of 60°F

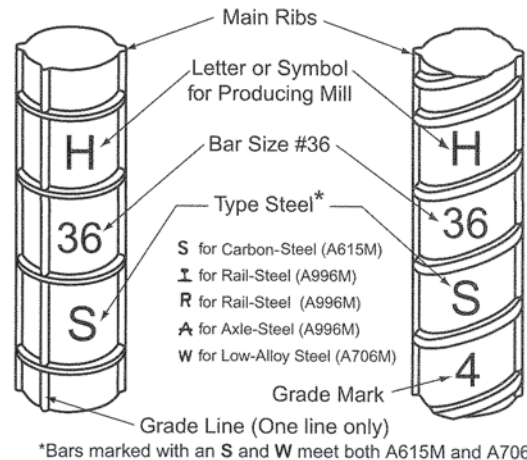
t	M	t	M	t	M	t	M	t	M
0	1.0241	50	1.0040	100	0.9842	150	0.9647	200	0.9456
1	1.0237	51	1.0036	101	0.9838	151	0.9643	201	0.9452
2	1.0233	52	1.0032	102	0.9834	152	0.9639	202	0.9448
3	1.0229	53	1.0028	103	0.9830	153	0.9635	203	0.9444
4	1.0225	54	1.0024	104	0.9826	154	0.9632	204	0.9441
5	1.0221	55	1.0020	105	0.9822	155	0.9628	205	0.9437
6	1.0217	56	1.0016	106	0.9818	156	0.9624	206	0.9433
7	1.0213	57	1.0012	107	0.9814	157	0.9620	207	0.9429
8	1.0209	58	1.0008	108	0.9810	158	0.9616	208	0.9425
9	1.0205	59	1.0004	109	0.9806	159	0.9612	209	0.9422
10	1.0201	60	1.0000	110	0.9803	160	0.9609	210	0.9418
11	1.0197	61	0.9996	111	0.9799	161	0.9605	211	0.9414
12	1.0193	62	0.9992	112	0.9795	162	0.9601	212	0.9410
13	1.0189	63	0.9988	113	0.9791	163	0.9597	213	0.9407
14	1.0185	64	0.9984	114	0.9787	164	0.9593	214	0.9403
15	1.0181	65	0.9980	115	0.9783	165	0.9589	215	0.9399
16	1.0177	66	0.9976	116	0.9779	166	0.9585	216	0.9395
17	1.0173	67	0.9972	117	0.9775	167	0.9582	217	0.9391
18	1.0168	68	0.9968	118	0.9771	168	0.9578	218	0.9388
19	1.0164	69	0.9964	119	0.9767	169	0.9574	219	0.9384
20	1.0160	70	0.9960	120	0.9763	170	0.9570	220	0.9380
21	1.0156	71	0.9956	121	0.9760	171	0.9566	221	0.9376
22	1.0152	72	0.9952	122	0.9756	172	0.9562	222	0.9373
23	1.0148	73	0.9948	123	0.9752	173	0.9559	223	0.9369
24	1.0144	74	0.9944	124	0.9748	174	0.9555	224	0.9365
25	1.0140	75	0.9940	125	0.9744	175	0.9551	225	0.9361
26	1.0136	76	0.9936	126	0.9740	176	0.9547	226	0.9358
27	1.0132	77	0.9932	127	0.9736	177	0.9543	227	0.9354
28	1.0128	78	0.9929	128	0.9732	178	0.9539	228	0.9350
29	1.0124	79	0.9925	129	0.9728	179	0.9536	229	0.9346
30	1.0120	80	0.9921	130	0.9725	180	0.9532	230	0.9343
31	1.0116	81	0.9917	131	0.9721	181	0.9528	231	0.9339
32	1.0112	82	0.9913	132	0.9717	182	0.9524	232	0.9335
33	1.0108	83	0.9909	133	0.9713	183	0.9520	233	0.9331
34	1.0104	84	0.9905	134	0.9709	184	0.9517	234	0.9328
35	1.0100	85	0.9901	135	0.9705	185	0.9513	235	0.9324
36	1.0096	86	0.9897	136	0.9701	186	0.9509	236	0.9320
37	1.0092	87	0.9893	137	0.9697	187	0.9505	237	0.9316
38	1.0088	88	0.9889	138	0.9693	188	0.9501	238	0.9313
39	1.0084	89	0.9885	139	0.9690	189	0.9498	239	0.9309
40	1.0080	90	0.9881	140	0.9686	190	0.9494	240	0.9305
41	1.0076	91	0.9877	141	0.9682	191	0.9490	241	0.9301
42	1.0072	92	0.9873	142	0.9678	192	0.9486	242	0.9298
43	1.0068	93	0.9869	143	0.9674	193	0.9482	243	0.9294
44	1.0064	94	0.9865	144	0.9670	194	0.9478	244	0.9290
45	1.0060	95	0.9861	145	0.9666	195	0.9475	245	0.9286
46	1.0056	96	0.9857	146	0.9662	196	0.9471	246	0.9283
47	1.0052	97	0.9854	147	0.9659	197	0.9467	247	0.9279
48	1.0048	98	0.9850	148	0.9655	198	0.9463	248	0.9275
49	1.0044	99	0.9846	149	0.9651	199	0.9460	249	0.9272

Appendix E

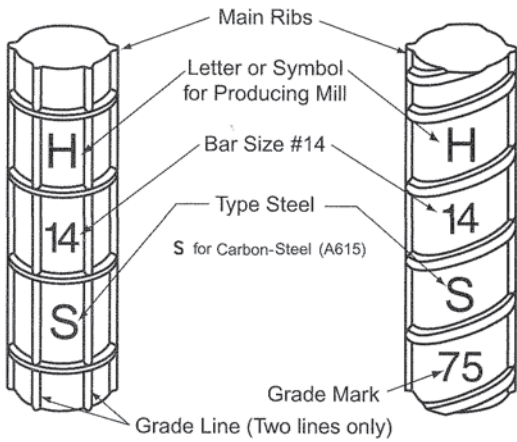
MATERIAL SPECIFICATIONS FOR REINFORCING BARS



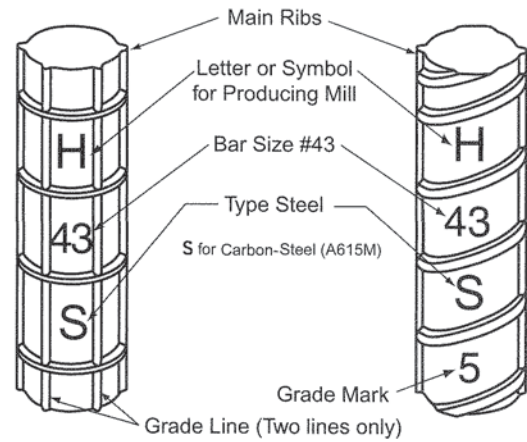
GRADE 60



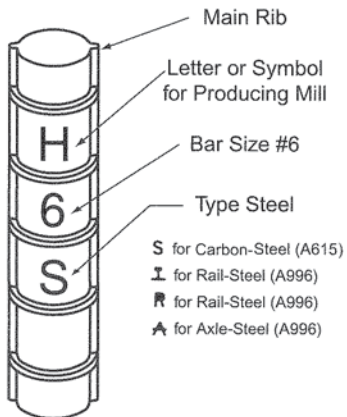
GRADE 420



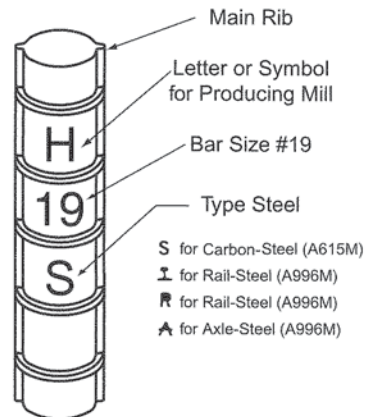
GRADE 75



GRADE 520



GRADE 40 AND 50



GRADE 280 AND 350

MATERIAL SPECIFICATIONS FOR REINFORCING BARS

ASTM SPECIFICATIONS – BAR SIZES, GRADES, TENSILE AND BENDING REQUIREMENTS

Type of Steel and ASTM Specification	Bar Sizes	Grade	Minimum Yield Strength, psi [MPa]	Minimum Tensile Strength, psi [MPa]	Minimum Percentage Elongation in 8 in. [203.2 mm]	Bend Test Pin Diameter (d = nominal diameter of bar)
Carbon-Steel A615/A615M	#3 - #6 [#10 - #19]	40 [280]	40,000 [280]	60,000 [420]	#3 [#10]11 #4, #5, #6 [#13, #16, #19] 12	#3, #4, #5 [#10, #13, #16] ... $.3\frac{1}{2}d$ #6 [#19] $5d$
	#3 - #18 [#10 - #57]	60 [420]	60,000 [420]	90,000 [620]	#3, #4, #5, #6 [#10, #13, #16, #19]9 #7, #8 [#22, #25]8 #9, #10, #11, #14, #18 [#29, #32, #36, #43, #57]7	#3, #4, #5 [#10, #13, #16] ... $.3\frac{1}{2}d$ #6, #7, #8 [#19, #22, #25] $.5d$ #9, #10, #11 [#29, #32, #36] $.7d$ #14, #18 (90°) [#43, #57 (90°)] $.9d$
	#3 - #18 [#10 - #57]	75 [520]	75,000 [520]	100,000 [690]	#3, #4, #5, #6, #7, #8 [#10, #13, #16, #19, #22, #25]7 #9, #10, #11, #14, #18 [#29, #32, #36, #43, #57]6	#3, #4, #5, #6, #7, #8 [#10, #13, #16, #19, #22, #25] $.5d$ #9, #10, #11 [#29, #32, #36] $.7d$ #14, #18 (90°) [#43, #57 (90°)] $.9d$
Low-Alloy Steel A706/A706M	#3 - #18 [#10 - #57]	60 [420]	60,000 [420]	80,000 [550]	#3, #4, #5, #6 [#10, #13, #16, #19]14 #7, #8, #9, #10, #11 [#22, #25, #29, #32, #36]12 #14, #18 [#43, #57]10	#3, #4, #5 [#10, #13, #16] $.3d$ #6, #7, #8 [#19, #22, #25] $.4d$ #9, #10, #11 [#29, #32, #36] $.6d$ #14, #18 [#43, #57] $.8d$
Stainless-Steel A955/A955M	#3 - #6 [#10 - #19]	40 [280]	40,000 [280]	70,000 [500]	#3, #4, #5, #6 [#10, #13, #16, #19]20	#3, #4, #5 [#10, #13, #16] ... $.3\frac{1}{2}d$ #6 [#19] $5d$
	#3 - #18 [#10 - #57]	60 [420]	60,000 [420]	90,000 [620]	#3 - #18 [#10 - #57]20	#3, #4, #5 [#10, #13, #16] ... $.3\frac{1}{2}d$ #6, #7, #8 [#19, #22, #25] $.5d$ #9, #10, #11 [#29, #32, #36] $.7d$ #14, #18 (90°) [#43, #57 (90°)] $.9d$
	#6 - #18 [#19 - #57]	75 [520]	75,000 [520]	100,000 [690]	#6 - #18 [#19 - #57]20	#6, #7, #8 [#19, #22, #25] $.5d$ #9, #10, #11 [#29, #32, #36] $.7d$ #14, #18 (90°) [#43, #57 (90°)] $.9d$

For low-alloy steel reinforcing bars, ASTM A706/A706M prescribes a maximum yield strength of 78,000 psi [540 MPa] and tensile strength must be 1.25 times the actual yield strength.

Bend tests are 180° except ASTM A615/A615M permits 90° for bar sizes #14 and #18 [#43 and #57].

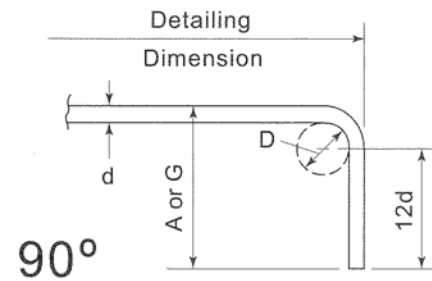
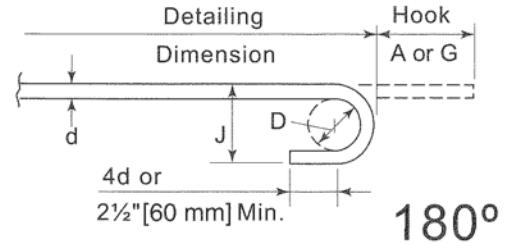
RECOMMENDED INDUSTRY PRACTICE FOR DETAILING CONCRETE REINFORCING STEEL

STANDARD HOOKS

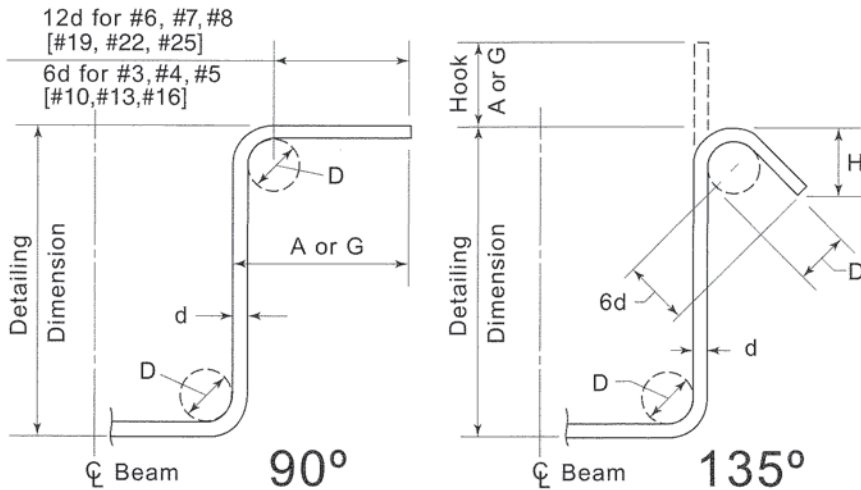
All specific dimension recommended by CRSI below meet minimum requirements of ACI 318 [318M]. Galvanized bars that are bent cold prior to galvanizing may have finished bend diameters larger than those shown below. See ASTM A767/A767M, Section 7.

RECOMMENDED END HOOKS ALL GRADES OF STEEL D = Finished bend diameter

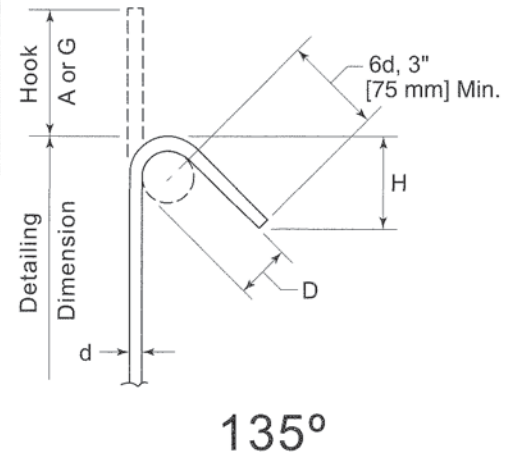
Bar Size	D, in. [mm]	180° Hooks, ft-in. [mm]		90° Hooks, ft-in. [mm]
		A or G	J	A or G
#3 [#10]	2 1/4 [60]	0-5 [125]	0-3 [80]	0-6 [150]
#4 [#13]	3 [80]	0-6 [150]	0-4 [105]	0-8 [200]
#5 [#16]	3 3/4 [95]	0-7 [175]	0-5 [130]	0-10 [250]
#6 [#19]	4 1/2 [115]	0-8 [200]	0-6 [155]	1-0 [300]
#7 [#22]	5 1/4 [135]	0-10 [250]	0-7 [180]	1-2 [375]
#8 [#25]	6 [155]	0-11 [275]	0-8 [205]	1-4 [425]
#9 [#29]	9 1/2 [240]	1-3 [375]	0-11 1/4 [300]	1-7 [475]
#10 [#32]	10 3/4 [275]	1-5 [425]	1-1 1/4 [335]	1-10 [550]
#11 [#36]	12 [305]	1-7 [475]	1-2 3/4 [375]	2-0 [600]
#14 [#43]	18 1/2 [465]	2-3 [675]	1-9 3/4 [550]	2-7 [775]
#18 [#57]	24 [610]	3-0 [925]	2-4 1/2 [725]	3-5 [1050]



90° AND 135° STIRRUP AND TIE HOOKS



135° SEISMIC STIRRUP/TIE HOOKS



STIRRUP (TIES SIMILAR) STIRRUP/TIE HOOK DIMENSIONS ALL GRADES OF STEEL

Bar Size	D, in. [mm]	90° Hook, ft-in. [mm]	135° Hook, in. [mm]	
		Hook A or G	Hook A or G	H (Approx.)
#3 [#10]	1 1/2 [40]	0-4 [105]	4 [105]	2 1/2 [65]
#4 [#13]	2 [50]	0-4 1/2 [115]	4 1/2 [115]	3 [80]
#5 [#16]	2 1/2 [65]	0-6 [155]	5 1/2 [140]	3 3/4 [95]
#6 [#19]	4 1/2 [115]	1-0 [305]	8 [205]	4 1/2 [115]
#7 [#22]	5 1/4 [135]	1-2 [355]	9 [230]	5 1/4 [135]
#8 [#25]	6 [155]	1-4 [410]	10 1/2 [270]	6 [155]

135° SEISMIC STIRRUP/TIE HOOK DIMENSIONS ALL GRADES OF STEEL

Bar Size	D, in. [mm]	135° Hook, in. [mm]	
		Hook A or G	H (Approx.)
#3 [#10]	1 1/2 [40]	4 1/2 [110]	3 [80]
#4 [#13]	2 [50]	4 1/2 [115]	3 [80]
#5 [#16]	2 1/2 [65]	5 1/2 [140]	3 3/4 [95]
#6 [#19]	4 1/2 [115]	8 [205]	4 1/2 [115]
#7 [#22]	5 1/4 [135]	9 [230]	5 1/4 [135]
#8 [#25]	6 [155]	10 1/2 [270]	6 [155]

Appendix F

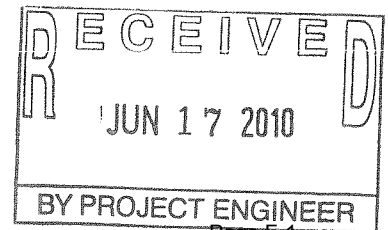
Submittal 551.03 Pile Driving Equipment

Contractor Information

(a) General

Pile Driving operations will be performed by **Bob's Bridge Builders** of **Riggins, ID**.
The operations will be to pre-bore for the pipe piles to a depth of 3' above the estimated pile tip depth of 25'. The depth will be no more than 22' deep. The pre-bore will be the same diameter or smaller than the 14" pipe pile.

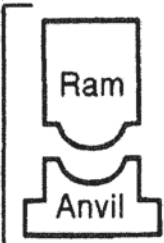


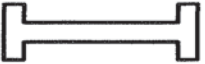
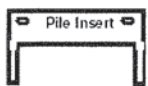

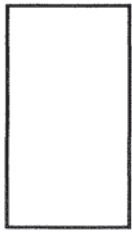
Example



Pile and Driving Equipment Data Form (English)

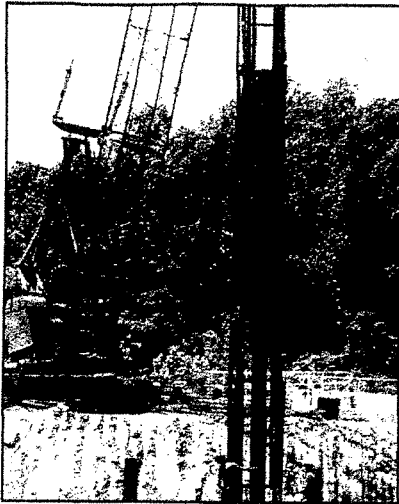
Note: Use internet to look up manufacture's data for your contractor's equipment

Contract No.: DTFH70-10-C-00204 Structure Name and/or No.: Bridge Over Troubled Water
 Project: Bridge Over Troubled Waters Project
 Piling Driving Contractor: Bob's Bridge Builders
 County: _____

Hammer Components		Manufacturer: <u>Ape</u> Model No.: <u>D19-42</u> Hammer Type: <u>Diesel</u> Serial No.: <u>990952</u> Manufacturers Maximum Rated Energy: <u>47,335</u> (ft-lbs) Stroke at Maximum Rated Energy: <u>10' 2"</u> Range in Operating Energy: <u>22,721</u> to <u>47,335</u> (ft-lbs) Range in Operating Stroke: <u>6</u> to <u>10' 3"</u> (ft) Ram Weight: <u>4,190</u> (lbs) Anvil weight: <u>749 LBS</u> Modifications: <u>None</u>
		Striker Plate Weight: <u>628</u> (lbs) Diameter: <u>22.5</u> (inches) Thickness: <u>6"</u> (inches)
		Hammer Cushion Material: <u>Monocast MC 904</u> Area: <u>471</u> (in ²) Thickness of Plate: <u>2</u> (in) No. of Plates: <u>1</u> Total Thickness of Hammer Cushion: <u>2</u> (in) Modulus of Elasticity (E): <u>285 ksi</u> (psi) Coefficient of Restitution (e): <u>.80</u>
		Helmet (Drive Head) Weight: <u>1,076</u> (lbs) One Piece Helmet? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
		Pile Insert (Bonnet) Weight of Insert <u>948</u> (lbs) Total Helmet Weight <u>2,652</u> (lbs)
		Pile Cushion Material: <u>Manufacturer requires only with concrete pile</u> Area: _____ (in ²) Thickness/Sheet: _____ (in) No. of Sheets: _____ Total Thickness of Pile Cushion: _____ (in)
		Pile Pile Type: <u>14" diameter pipe pile</u> Wall thickness: <u>1/2"</u> (in) Taper: <u>NA</u> Cross Sectional Area: <u>21.21</u> (in ²) Weight/foot: <u>72.09</u> (lbs) Order Length: <u>30</u> (feet) Ultimate Pile Capacity: _____ (tons) Driving Shoe/Closure Plate Description: _____ Description of Splice (If Applicable): <u>NA</u>
Submitted By: <u>Builder Bob, Bob's Bridge Builders</u> Date: <u>6/1/2010</u> Telephone No.: <u>(208) 541-3704</u> FAX No.: <u>(208) 541-62564</u> E-Mail Address: <u>buildembig@bridgesmail.com</u>		
<p>This set up will be used on Bents 1, & 2.</p>		

APE Model D19-42 Single Acting Diesel Impact Hammer

D19-42 driving H-beam.



MODEL D19-42 (1.9 metric ton ram)

SERIAL # 990952

SPECIFICATIONS

Stroke at maximum rated energy	135 in (343 cm)
Maximum rated energy (Setting 4)	47,335 ft-lbs (64,177 Nm)
Setting 3	37,868 ft-lbs (51,341 Nm)
Setting 2	31,715 ft-lbs (42,999 Nm)
Minimum rated energy (Setting 1)	22,721 ft-lbs (2,567 Nm)

(Variable throttle allows for lower minimum energy and infinite fuel settings.)

Maximum obtainable stroke	150 in (381 cm)
Maximum obtainable energy	52,362 ft-lbs (70,992 Nm)
Speed (blows per minute)	34-52

WEIGHTS

Ram	4,189 lbs (1,900 kg)
Anvil	749 lbs (340 kg)
Anvil cross sectional area	124.42 sq in (316.02 sq-cm)
Hammer weight (includes trip device)	8,400 lbs (3,810 kg)
Typical operating (weight with DB26 and H-beam insert)	11,052 lbs (5,013 kg)

CAPACITIES

Fuel tank (runs on diesel or bio-diesel)	8.3 gal (31.41 liters)
Oil tank	2.3 gal (8.7 liters)

CONSUMPTION

Diesel or Bio-diesel fuel	1.3 gal/hr (6.6 liters/hr)
Lubrication	.13 gal/hr (.49 liters/hr)
Grease	8 to 10 pumps every 45 minutes of operation time.

Optional Variable Throttle.



STRIKER PLATE FOR DB 26

Weight	628 lbs (284 kg)
Diameter	22.5 in (57.15 cm)
Area	471 sq-in (696 sq-cm)
Thickness	6 inches (15.24 cm)

STRIKER PLATE FOR DB 20

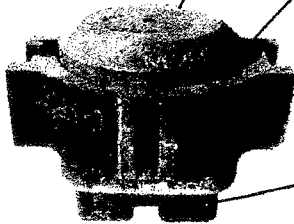
Weight	440 lbs (199 kg)
Diameter	17.3/4 in (45.08 cm)
Area	247 sq-in (628 sq-cm)
Thickness	6 inches (15.24 cm)

CUSHION MATERIAL - ONLY REQ'D

Type	Monocast MC 904
Diameter-DB26	22.5 in (57.15 cm)
Diameter-DB20	17.3/4 in (45.08 cm)
Thickness	2 inches (5.08)
Elastic-modulus	285 ksi (1,965 mpa)
Coeff. of restitution	.8

FOR CONCRETE PILE.

Drive Base Assembly.



DRIVE CAP

DB 26:	1,076 lbs (488 kg)
DB 20:	750 lbs (340 kg)

INSERT WEIGHT

H-Beam insert for 12" (305 mm) and 14" (355 mm):	948 lbs (430 kg)
Large pipe insert for sizes 12" to 24" diameter:	1,830 lbs (830 kg)

MINIMUM BOX LEAD SIZE/OPERATING LENGTH

Minimum box leader size	8 in x 21 in (3.14 cm x 53.34 cm)
Operating length w/ base and insert	348 in (884 cm)

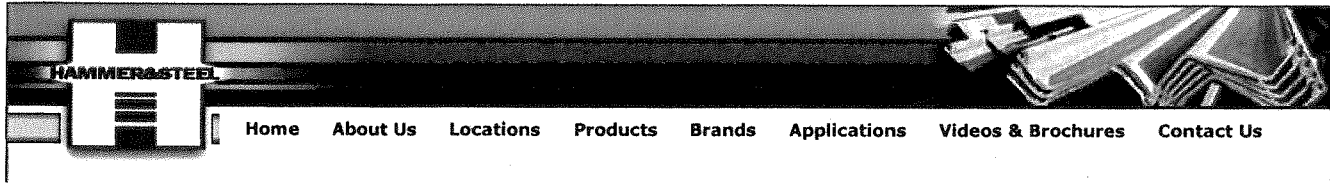


APE Corporate Offices
7032 South 196th
Kent, Washington 98032 USA
(800) 248-8498 & (253) 872-0141
(253) 872-8710 Fax

Visit our WEB site:
www.apetro.com
e-mail: ape@apetro.com

Note: All specifications are subject to change without notice 1/07.

Example



- ABI
- Delmag
- Diesel Hammers
- Drill Rigs
- Lead Systems
- Attachments
- Bay Shore/LoDrill
- Bruce
- Dawson
- PVE
- Hammer & Steel
- Gerdau Ameristeel
- Boart Longyear
- Junttan
- Scheltzke
- Krupp
- Gamperl & Hatlapa GmbH
- Steel Dynamics
- Soilttek

Bearing Capacity Chart -- Delmag Diesel Pile Hammers

Delmag D19-42 Single Acting Diesel Pile Hammer

Blows Per Min.	Piston Stroke (ft)	Hammer Energy (ft-lbs)	Bearing Capacity (tons) for a Pile Set (blows / in) of :																
			2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0
54	4.65	18670	106	117	127	135	142	148	153	158	163	167	171	174	178	181	184	186	189
53	4.84	19433	109	121	130	138	145	152	157	162	167	171	175	179	182	185	188	191	194
52	5.04	20236	112	124	134	142	149	156	161	167	171	176	180	183	187	190	193	196	199
51	5.25	21079	115	128	138	146	154	160	166	171	176	180	184	188	192	195	198	201	204
50	5.47	21962	119	131	142	150	158	164	170	176	181	185	189	193	197	200	203	206	209
49	5.71	22926	122	135	146	155	162	169	175	181	186	190	194	198	202	206	209	212	215
48	5.97	23970	126	139	150	159	167	174	180	186	191	196	200	204	208	211	215	218	221
47	6.24	25054	130	144	155	164	172	179	185	191	196	201	206	210	214	217	221	224	227
46	6.52	26178	134	148	159	169	177	184	191	196	202	207	211	215	219	223	227	230	233
45	6.83	27422	139	153	164	174	182	190	196	202	208	213	217	222	226	230	233	237	240
44	7.16	28747	143	157	169	179	188	195	202	208	214	219	224	228	232	236	240	243	247
43	7.51	30153	148	162	174	185	193	201	208	214	220	225	230	235	239	243	247	250	254
42	7.88	31638	152	168	180	190	199	207	214	221	227	232	237	242	246	250	254	258	261
41	8.29	33284	158	173	186	196	206	214	221	228	234	239	245	249	254	258	262	266	269
40	8.72	35011	163	179	192	203	212	221	228	235	241	247	252	257	262	266	270	274	277
39	9.19	36898	169	185	198	210	219	228	236	243	249	255	260	265	270	274	278	282	286
38	9.70	38946	175	191	205	217	227	235	243	251	257	263	269	274	279	283	287	292	295
37	10.25	41154	181	198	212	224	234	243	252	259	266	272	278	283	288	292	297	301	305
36	10.84	43523	187	205	220	232	242	252	260	268	275	281	287	292	297	302	307	311	315
35	11.48	46092	194	213	227	240	251	261	269	277	284	291	297	302	308	312	317	322	326

REQUEST QUOTE
DOWNLOAD BROCHURES

Calculates bearing capacities based upon FHWA modified Gates formula:

$$R_u = 0.5 [1.75 \sqrt{E} (\log 10N) - 100]$$

where

R_u = Driven bearing capacity of the pile in tons

N = Number of hammer blows per inch

E = Energy developed by the hammer per blow in ft-lbs

Company Headquarters

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Ph: 314.895.4600
Fx: 314.895.4070

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Ph: 904.284.6800

Kansas City, Kansas
Ph: 913.681.9295

Boston, Massachusetts
Ph: 508-419-7374

Houston, Texas
Ph: 281.852.1136

Minneapolis, Minnesota
Ph: 952.469.6060

Example

Appendix G

NOTES ON METRICATION

(Asterisk denotes exact number)

Quantity	To Convert From . . .	To . . .	Multiply By . . .
Length	mile	km	1.609 344*
	yard	m	0.9144*
	foot	m	0.3048*
	foot	mm	304.8*
	inch	mm	25.4*
Area	square mile	km ²	2.589 998
	acre	m ²	4046.873
	acre	ha	0.404 687 3
	square yard	m ²	0.836 127 4*
	square foot	m ²	0.092 903 04*
	square inch	mm ²	645.16*
Volume	acre foot	m ³	1233.489
	cubic yard	m ³	0.764 554 9
	cubic foot	m ³	0.028 316 85
	cubic foot	cm ³	28 316.85
	cubic foot	L	28.316 85
	100 board feet	m ³	0.235 973 7
	gallon	L	3.785 412
	cubic inch	cm ³	16.387 06
	cubic inch	mm ³	16 387.06
Mass	pound	kg	0.453 592 4
	ton (2,000 pounds)	kg	907.184 7
	kip	t	0.453 592 4
Mass/unit length	pound/foot	kg/m	1.488 164
Mass/unit area	pound/foot ²	kg/m ²	4.882 428
Mass density	pound/foot ³	kg/m ³	16.018 46
Force	pound	N	4.448 222
	kip	kN	4.448 222
Force/unit length	pound/foot	N/m	14.593 90
	kip/foot	kN/m	14.593 90
Pressure, stress	pound/foot ²	Pa	47.880 26
	kip/foot ²	kPa	47.880 26
	pound/inch ²	kPa	6.894 757
	kip/inch ²	MPa	6.894 757
	pound /inch ²	N/mm ²	0.006 895
	kip/inch ²	N/mm ²	6.894 757
Bending Moment, torque	foot-pound	N•m	1.355 818
	foot-kip	kN•m	1.355 818
Moment of mass	pound-foot	kg•m	0.138 255 0
Moment of inertia	pound-foot ²	kg•m ²	0.042 140 11
Second moment of inertia	inch ⁴	mm ⁴	416 231.4
Section modulus	inch ³	mm ³	16 387.06
Temperature	°F	°C	(°F - 32)/5/9
Plane angle	degree	rad	0.017 453 29

Appendix H

Project No.: ID PFH CDP 67(2)

Project Name: GRANGEMONT ROAD

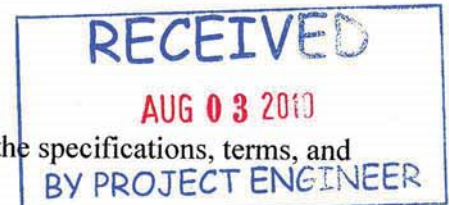
Contract No.: DTFH 70-10-C-00009

Award date: APRIL 28, 2010

The certification, Subcontractor listing, and attached itemized request for payment of \$326,286.11 serves as the contractor's invoice for work performed during the period indicated below, and under the contract cited.

CONTRACTOR CERTIFICATION
[FAR Clause 52.232-5 & FAR 52.232-27]

I hereby certify, to the best of my knowledge and belief, that:



- (1) The amounts requested are only for performance in accordance with the specifications, terms, and conditions of the contract;
(2) Payments to subcontractors and suppliers have been made from previous payments received under the contract, and timely payments will be made from the proceeds of the payment covered by this certification, in accordance with subcontract agreements and the requirements of Chapter 39 of Title 31, United States Code; and
(3) This request for progress payments does not include any amounts which the prime contractor intends to withhold or retain from a subcontractor or supplier in accordance with the terms and conditions of the subcontract.

Pave Earth First, Inc.
Contractor Company Name

Aug 2, 2010
Date Signed

Submitted by: Name A. Lincoln
Print Name and Title

2
Estimate Number

Submitted by: A. Lincoln
Signature

July 1, 10 through July 31, 10
Dates for Progress Payment Period

Table with 6 columns: Subcontractor, SF1413 & WFLHD 130 Submitted Y/N, Total Amount of Subcontract, Previous Payments, Amount Included in this Estimate*, Cumulative Retent through this Estimate. Rows include S by SW Survey, We Flag, Inc., Erosion Control, Inc., and Testers-R-Us, LLC.

* Excludes any retent included in the right-most column. Check if continued on additional page

Pave Earth First

Paynote Information:

Bid Item	Description	Quantity	Unit	Unit Price	Total	Previous Quantity	Previous Amount	Month Quantity	Month Revenue	To Date Quantity	To Date Revenue	Quantity Remaining	Revenue Remainder
1	15101-0000 Mobilization	1	LS	\$135,561.44	\$135,561.44	0.14	\$18,978.60	0.50	\$67,780.72	0.64	\$86,759.32	0.36	\$48,802.12
2	15201-0000 Construction Survey and Staking	1	LS	\$112,670.25	\$112,670.25	0.35	\$39,434.59	0.35	\$39,434.59	0.70	\$78,869.18	0.30	\$33,801.08
3	15301-0000 Contractor Quality Control	1	LS	\$69,382.00	\$69,382.00	0	\$0.00	0.05	\$3,469.10	0.05	\$3,469.10	0.95	\$65,912.90
4	15401-0000 Contractor Testing	1	LS	\$54,250.00	\$54,250.00	0	\$0.00	0.12	\$6,510.00	0.12	\$6,510.00	0.88	\$47,740.00
5	15705-1500 Soil Erosion Control, Sediment Wattle	5,920	LNT	\$2.34	\$13,852.80	0	\$0.00	5700	\$13,338.00	5700	\$13,338.00	220	\$514.80
6	15801-0000 Watering for Dust Control	3,000	MGAL	\$2.00	\$6,000.00	0	\$0.00	0	\$0.00	0	\$0.00	3,000	\$6,000.00
7	20301-2400 Removal of Signs	74	EA	\$15.00	\$1,110.00	0	\$0.00	0	\$0.00	0	\$0.00	74	\$1,110.00
8	20302-1300 Removal of Guardrail, Concrete Barrier	2,600	LNT	\$5.00	\$13,000.00	0	\$0.00	0	\$0.00	0	\$0.00	2,600	\$13,000.00
9	20402-0000 Subexcavation	250	CUYD	\$17.00	\$4,250.00	0	\$0.00	0	\$0.00	0	\$0.00	250	\$4,250.00
10	20410-0000 Select Borrow	250	CUYD	\$31.56	\$7,890.00	0	\$0.00	0	\$0.00	0	\$0.00	250	\$7,890.00
11	20703-0000 GeoGrid	550	SQYD	\$5.50	\$3,025.00	0	\$0.00	0	\$0.00	0	\$0.00	550	\$3,025.00
12	30302-1000 Ditch Reconditioning	17,100	LNT	\$0.53	\$9,063.00	0	\$0.00	9990	\$5,294.70	9990	\$5,294.70	7,110	\$3,768.30
13	30306-4000 Pulverization, 8in depth	268,000	SQYD	\$0.74	\$198,320.00	0	\$0.00	0	\$0.00	0	\$0.00	268,000	\$198,320.00
14	30405-1100 Cement Aggregate Stabilization, In-place Aggregate, 8in	268,000	SQYD	\$0.57	\$152,760.00	0	\$0.00	0	\$0.00	0	\$0.00	268,000	\$152,760.00
15	30416-0000 Cement	3,350	TON	\$127.10	\$425,785.00	0	\$0.00	0	\$0.00	0	\$0.00	3,350	\$425,785.00
16	30806-0000 Bedding and Backfill Aggregate	150	TON	\$12.17	\$1,825.50	0	\$0.00	0	\$0.00	0	\$0.00	150	\$1,825.50
17	40101-1000 Superpave Pavement: 3/4" Nominal Max 0.3-3 Mil ESAL	46,400	TON	\$62.33	\$2,892,112.00	0	\$0.00	0	\$0.00	0	\$0.00	46,400	\$2,892,112.00
18	40105-3000 Antistrip Additive, Type 3	465	TON	\$210.00	\$97,650.00	0	\$0.00	0	\$0.00	0	\$0.00	465	\$97,650.00
19	41101-1000 Prime Coat, Grade CMS-2	0	TON	\$0.00	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
20	41105-0000 Blotter	2,000	TON	\$0.00	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	2,000	\$0.00
21	41201-1000 Tack Coat Grade CSS-1, CSS-1H, SS-1, or SS-1H	236	TON	\$350.72	\$82,769.92	0	\$0.00	0	\$0.00	0	\$0.00	236	\$82,769.92
22	60901-2100 Curb, Asphalt, 4 inch depth	350	LNT	\$8.35	\$2,922.50	0	\$0.00	0	\$0.00	0	\$0.00	350	\$2,922.50
23	61701-1200 Guardrail System G4, Type 2, Class A Steel Posts	3,650	LNT	\$29.00	\$105,850.00	0	\$0.00	0	\$0.00	0	\$0.00	3,650	\$105,850.00
24	61702-0600 Terminal Section, Type Flared	7	EA	\$2,900.00	\$20,300.00	0	\$0.00	0	\$0.00	0	\$0.00	7	\$20,300.00
25	61702-0800 Terminal Section, Type Tangent	7	EA	\$2,900.00	\$20,300.00	0	\$0.00	0	\$0.00	0	\$0.00	7	\$20,300.00
26	62201-1000 Wheel Loader, 4 Cubic Yard Minimum Capacity	30	HOUR	\$120.43	\$3,612.90	0	\$0.00	0	\$0.00	0	\$0.00	30	\$3,612.90
27	62201-2050 Roller	30	HOUR	\$102.83	\$3,084.90	0	\$0.00	0	\$0.00	0	\$0.00	30	\$3,084.90
28	62201-2850 Motor Grader, 12 Foot Minimum Blade	30	HOUR	\$145.43	\$4,362.90	0	\$0.00	0	\$0.00	0	\$0.00	30	\$4,362.90
29	62301-0000 General Labor	90	HOUR	\$39.27	\$3,534.30	0	\$0.00	0	\$0.00	0	\$0.00	90	\$3,534.30
30	63302-0000 Sign System	660	SOFT	\$38.00	\$25,080.00	0	\$0.00	0	\$0.00	0	\$0.00	660	\$25,080.00
31	63309-0200 Delineator, Type 2	450	EA	\$26.00	\$11,700.00	0	\$0.00	0	\$0.00	0	\$0.00	450	\$11,700.00
32	63401-0300 Pavement Markings, Type B, Solid Yellow	280,500	LNT	\$0.04	\$11,220.00	0	\$0.00	0	\$0.00	0	\$0.00	280,500	\$11,220.00
33	63401-0300 Pavement Markings, Type B, Solid White	374,000	LNT	\$0.04	\$14,960.00	0	\$0.00	0	\$0.00	0	\$0.00	374,000	\$14,960.00
34	63401-0400 Pavement Markings, Type B, Broken Yellow	93,500	LNT	\$0.02	\$1,870.00	0	\$0.00	0	\$0.00	0	\$0.00	93,500	\$1,870.00
35	63502-0400 Temporary Traffic Control, Barricade Type 1	20	EA	\$35.00	\$700.00	0	\$0.00	0	\$0.00	0	\$0.00	20	\$700.00
36	63502-0600 Temporary Traffic Control, Barricade Type 3	12	EA	\$75.00	\$900.00	0	\$0.00	0	\$0.00	0	\$0.00	12	\$900.00
37	63502-100 Temporary Traffic Control, Cone, Type 36 inch	600	EA	\$7.00	\$4,200.00	0	\$0.00	0	\$0.00	0	\$0.00	600	\$4,200.00
38	63502-1300 Temporary Traffic Control, Drum	120	EA	\$18.00	\$2,160.00	0	\$0.00	0	\$0.00	0	\$0.00	120	\$2,160.00
39	63504-1000 Temporary Traffic Control, Construction Sign	2,050	SOFT	\$4.25	\$8,712.50	216	\$918.00	72	\$306.00	288	\$1,224.00	1,762	\$7,488.50
40	63506-0600 Temporary Traffic Control, Pilot Car	250	HOUR	\$59.00	\$14,750.00	0	\$0.00	0	\$0.00	0	\$0.00	250	\$14,750.00
41	63507-0700 Temporary Traffic Control, Traffic and Safety Supervisor	110	DAY	\$450.00	\$49,500.00	4	\$1,800.00	16	\$7,200.00	20	\$9,000.00	90	\$40,500.00
42	63509-1000 Temporary Traffic Control, Flagger	2,900	HOUR	\$47.00	\$136,300.00	36	\$1,692.00	249	\$11,703.00	285	\$13,395.00	2,615	\$122,905.00
43	MOH-40101-1000 Material on Hand for Superpave Aggregate	1	LS	\$171,250.00	\$171,250.00	0	\$0.00	1	\$171,250.00	1	\$171,250.00	0	\$0.00
Totals					\$4,895,746.91		\$62,823.19		\$326,286.11		\$389,109.30		\$4,506,637.61
Retainage					\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
Totals Minus Retainage					\$4,895,746.91		\$62,823.19		\$326,286.11		\$389,109.30		\$4,506,637.61

Appendix I

WA PFH 208-1(1)
 CAMP GRISDALE ROAD
 UPDATED STAKING NOTES 370+00 - 400+00
 SLOPE STAKE REPORT (Ft)

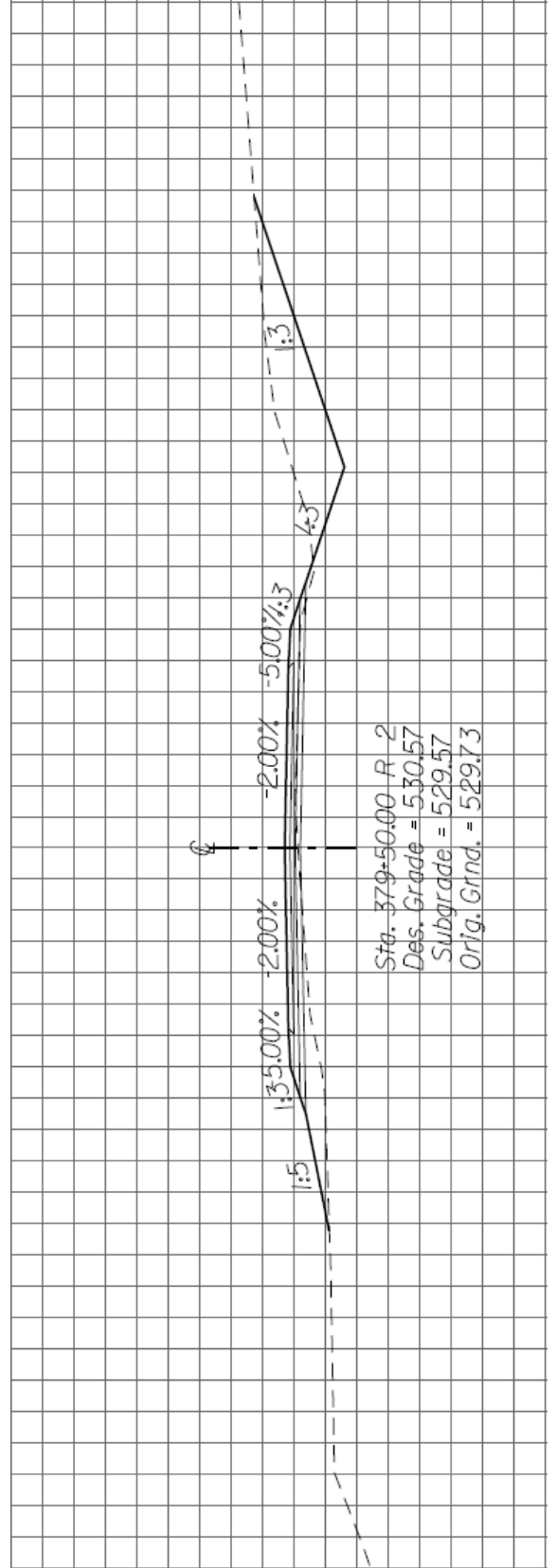
STATION

Region 2

Terrain Elevation = 529.73
 Design Elevation = 529.57 DIFF = C 0.16

CHANGE	LT STAKE	ELEV	SLOPE	CENTERLINE	SLOPE	ELEV	RT STAKE	CHANGE
	RP NO REF HUB						RP NO REF HUB	
	F 1.50	527.74	-5.00:1	MAIN	+3.00:1	532.53	C 5.75	
	HP 24.44	529.24	-2.00%		-3.00:1	526.79	41.54	
	HP 16.95	529.24	-2.00%			529.24	24.30	
	-0.11						-2.45	
	HP 11.50	529.34	-2.00%			529.24	16.95	
	-0.23						-0.11	
	0.00	529.57	-2.00%			529.34	11.50	
							-0.23	
						529.57	0.00	

RE-CROSS SECTION NOTES



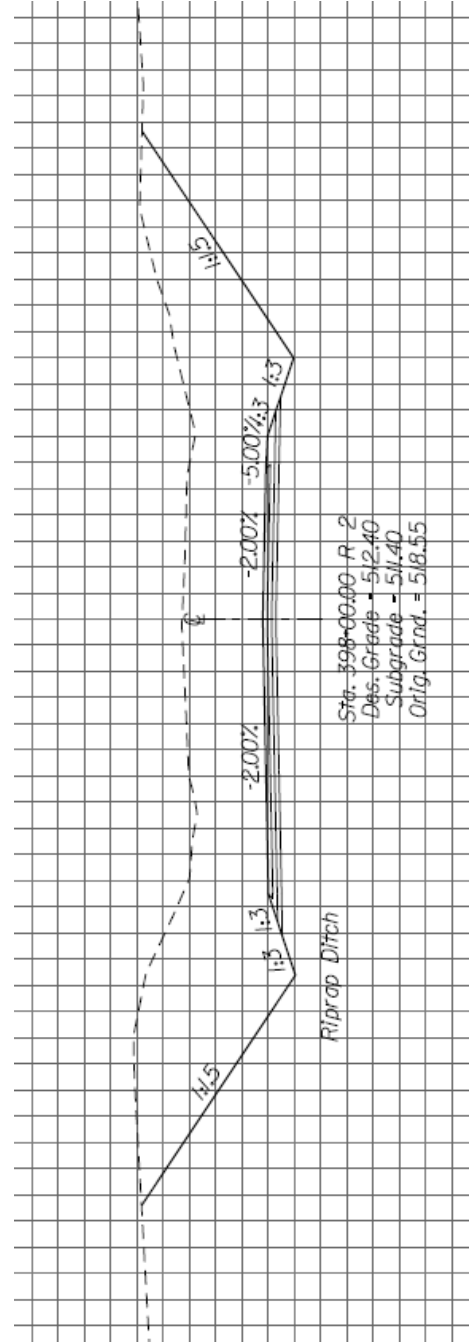
STATION

398+00.00 Region 2

Terrain Elevation = 518.55
 Design Elevation = 511.40 DIFF = C 7.15

CHANGE	LT STAKE	ELEV	SLOPE	CENTERLINE	SLOPE	ELEV	RT STAKE	CHANGE
	RP NO REF HUB						RP NO REF HUB	
	C	521.65	+1.50:1	MAIN	+1.50:1	521.61	C	11.55
								37.27
								19.95
	HP	510.92	-3.00:1		-3.00:1	510.07	HP	-1.00
								16.95
								-0.11
								11.50
								-0.23
								0.00
								511.17
								-0.23
								0.00
								511.40

RE-CROSS SECTION NOTES



STATION

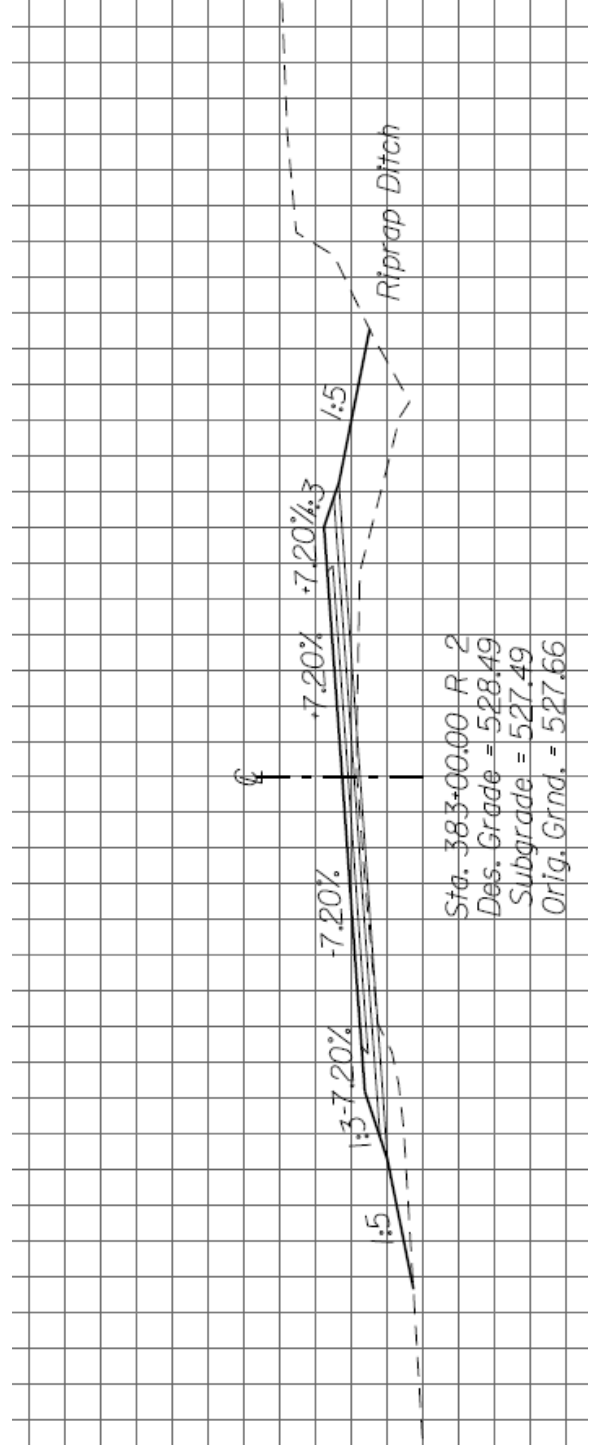
Region 2

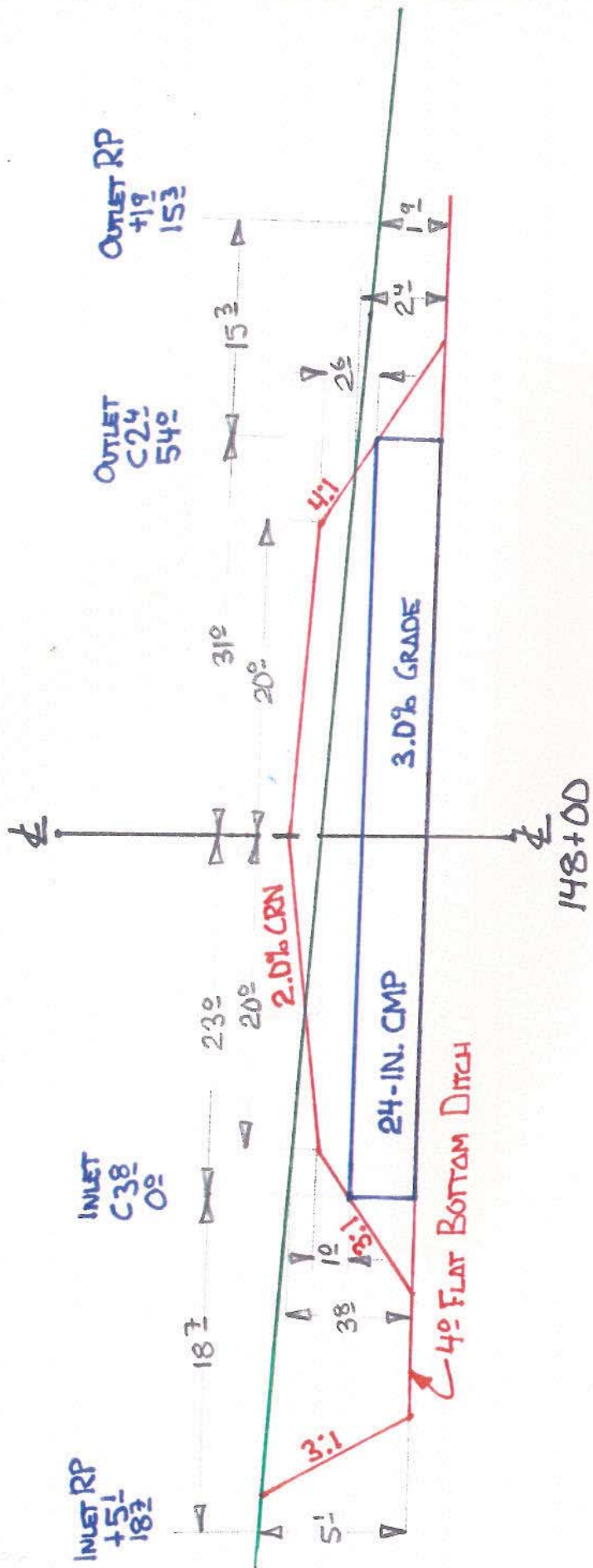
Terrain Elevation = 527.66
 Design Elevation = 527.49

DIFF = C 0.16

CHANGE	LT STAKE	ELEV	SLOPE	CENTERLINE	SLOPE	ELEV	RT STAKE	CHANGE
	RP NO REF HUB	524.51		MAIN		526.96	RP NO REF HUB	
	F 1.44		-5.00:1				F 1.72	
	28.65						25.06	
	HP 21.43	525.95	-7.20%		-5.00:1	528.68	HP 16.47	
	-0.46						0.36	
	15.10	526.41	-7.20%		+7.20%	528.32	11.50	
	-0.26						0.83	
	11.50	526.67	-7.20%		+7.20%	527.49	0.00	
	-0.83							
	0.00	527.49						

RE-CROSS SECTION NOTES





RP
PIPE
OUTLET
+19
153
C
24
54°
GRADE
3.0% | 24-IN x 54° CMP
w/ 2 END SECTIONS

PIPE
OUTLET
C
24
54°
GRADE
3.0% | 24-IN. x 54° CMP
w/ 2 END SECTIONS

PIPE
INLET
C
38
0°
GRADE
3.0% | 24-IN. x 54° CMP
w/ 2 END SECTIONS

RP
PIPE
INLET
+51
187
C
38
0°
GRADE
3.0% | 24-IN. x 54° CMP
w/ 2 END SECTIONS

