

# CONTRACT

FA96 (Form 850019)  
05-12

Letting Date: April 16, 2013 Contract ID: 78-0292-078 Bid Order No.: 109  
County: POTTAWATTAMIE Project Engineer: COUNCIL BLUFFS RCE  
Cost Center: 601000 Object Code: 890 DBE Commitment: \$158,400.00  
Contract Work Type: PCC PAVEMENT - GRADE/REPLACE

2013 APR 24 AM 10:45

This agreement made and entered by and between the IOWA DEPARTMENT OF TRANSPORTATION,  
CONTRACTING AUTHORITY, AND  
CEDAR VALLEY CORP., LLC. OF WATERLOO, IA, (CE099), CONTRACTOR

It is agreed that the notice and instructions to bidders, the proposal filed by the Contractor, the specifications, the plan, if any, for project(s) listed below, together with Contractor's performance bond, are made a part hereof and together with this instrument constitute the contract. This contract contains all of the terms and conditions agreed upon by the parties hereto. A true copy of said plan is now on file in the office of the Contracting Authority under date of 04/11/2013.

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PROJECT: IMX-029-2(78)44--02-78 COUNTY: POTTAWATTAMIE  
WORK TYPE: PCC PAVEMENT - GRADE/REPLACE ACCOUNTING ID: 30667  
ROUTE: I-29 LENGTH (MILES): 2.12  
LOCATION: FROM MILLS CO. N. TO IA 92  
FEDERAL AID - PREDETERMINED WAGES ARE IN EFFECT  
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The specifications consist of the Standard Specifications for Highway and Bridge Construction, Series 2012 of the Iowa Department of Transportation plus the following Supplemental Specifications, Special Provisions, and addendums: DS-12007, DS-12025, DS-12027, DS-12034, DS-12037, DS-12040, FHWA-1273.05, GS-12002, IA13-1.0, SP-120040, ADDENDUMS: 16APR109.A01, 16APR109.A02, 16APR109.A03

Contractor, for and in considerations of \$7,919,579.26 payable as set forth in the specifications constituting a part of this contract, agrees to construct various items of work and/or provide various materials or supplies in accordance with the plans and specifications therefore, and in the locations designated in the Notice to Bidders.

Contractor certifies by signature on this contract, under pain of penalties for false certification, that the Contractor has complied with Iowa Code Section 452A.17(8) as amended, if applicable, and Iowa Code Section 91C.5 (Public Registration Number), if applicable.

In consideration of the foregoing, Contracting authority hereby agrees to pay the Contractor promptly and according to the requirements of the specifications the amounts set forth, subject to the conditions as set forth in the specifications.

It is further understood and agreed that the above work shall also be commenced or completed in accordance with Page 1B of this Contract and assigned Proposal Notes.

To accomplish the purpose herein expressed, the Contracting authority and Contractor have signed this and one other identical instrument.

By [Signature] Contractor, \_\_\_\_\_ Contractor (if joint venture)

By Wm W. Burgess Contracting Authority \_\_\_\_\_ Contract Award Date APR 25 2013

Iowa DOT Concurrence \_\_\_\_\_ For Local Agency Contracts \_\_\_\_\_ Concurrence Date \_\_\_\_\_

Letting Date: April 16, 2013 Contract ID: 78-0292-078

Bid Order No. : 109

It is further understood and agreed that the above work shall be commenced or completed in accordance with the following schedule:

SITE NUMBER	CONTRACT PERIOD /SITE DESCRIPTION	LIQUIDATED DAMAGES
01	TIME BID SITE LATE START DATE 06/03/2013 98 CALENDAR DAYS	\$5,000.00
02	APPROX START DATE 10/07/2013 15 WORKING DAYS TO COMPLETE CLEAN UP AND EROSION CONTROL	\$1,500.00

CONTRACT NOTES

\*\*\* SITE 01 A+B BIDDING \*\*\*

ARTICLE 1112 A+B BIDDING SHALL APPLY TO SITE 01 WITH THE FOLLOWING CONDITIONS:

DAILY ROAD USER COST: \$5000.00/DAY.

MAXIMUM NUMBER OF CALENDAR DAYS ALLOWED: 120

THE ROAD USER COST PER CALENDAR DAY (DAILY ROAD USER COST) SHOWN IN THE PROPOSAL INCLUDES COSTS TO THE TRAVELING PUBLIC AND DAMAGES TO THE CONTRACTING AUTHORITY WHEN TRAFFIC ON I-29 IS TWO-WAY, TWO-LANE.

THE DOLLAR AMOUNT 'LIQUIDATED DAMAGES' FOR THE TIME BID SITE IS EQUAL TO THE DAILY ROAD USER COST. THE DISINCENTIVE ASSESSMENT/INCENTIVE PAYMENT IS EQUAL TO THE DAILY ROAD USER COST.

\*\*\* CRITICAL CLOSURE ACTIVITY \*\*\*

THE CRITICAL CLOSURE ACTIVITY IS WHEN I-29 TRAFFIC IS TWO-WAY, TWO-LANE INCLUDING ALL ACTIVITIES TO SET UP, SWITCH AND REMOVE TRAFFIC CONTROL.

CONTRACT SCHEDULE OF PRICES

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 Contract ID No.: 78-0292-078 Letting Date: April 16, 2013  
 Primary Work Type: PCC PAVEMENT - GRADE & REPLACE 10:00 A.M.  
 Primary County: POTTAWATTAMIE

Line No	Item Number Item Description	Item Quantity and Unit	Unit Price Dollars   Cts	Bid Amount Dollars   Cts
SECTION 0001 ROADWAY ITEMS				
0010	2102-0425071 SPECIAL BACKFILL	 35,166.000  CY	 16.10000	 566,172.60
0020	2102-2710070 EXCAVATION, CLASS 10, ROADWAY AND BORROW	 86,774.000  CY	 5.40000	 468,579.60
0030	2102-2713070 EXCAVATION, CLASS 13, ROADWAY AND BORROW	 685.000  CY	 12.00000	 8,220.00
0040	2105-8425005 TOPSOIL, FURNISH AND SPREAD	 18,384.000  CY	 6.00000	 110,304.00
0050	2111-8174100 GRANULAR SUBBASE	 104,450.000  SY	 5.70000	 595,365.00
0060	2121-7425020 GRANULAR SHOULDERS, TYPE B	 215.000  TON	 60.00000	 12,900.00
0070	2122-5190501 PAVED SHOULDER, PORTLAND CEMENT CONCRETE (PAVED SHOULDER PANEL FOR BRIDGE END DRAIN)	 251.500  SY	 73.53000	 18,492.80
0080	2123-7450000 SHOULDER CONSTRUCTION, EARTH	 443.750  STA	 280.00000	 124,250.00
0090	2301-0690200 BRIDGE APPROACH, RK-20	 1,060.300  SY	 143.51000	 152,163.65
0100	2301-1004110 STANDARD OR SLIP-FORM PORTLAND CEMENT CONCRETE PAVEMENT, QM-C, CLASS 3I DURABILITY, 11 IN.	 89,175.300  SY	 31.98000	 2,851,826.09

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			Dollars	Cts	Dollars	Cts
0110	2301-9090000 QUALITY MANAGEMENT - CONCRETE (QM-C)	27,678.000 CY	1.00000		27,678.00	
0120	2304-0100000 DETOUR PAVEMENT	2,939.000 SY	48.08000		141,307.12	
0130	2312-8260250 GRANULAR SURFACING ON ROAD, CRUSHED STONE	25.000 TON	60.00000		1,500.00	
0140	2412-0000100 LONGITUDINAL GROOVING IN CONCRETE	1,112.400 SY	3.50000		3,893.40	
0150	2416-0100024 APRONS, CONCRETE, 24 IN. DIA.	5.000 EACH	1,342.00000		6,710.00	
0160	2416-0100048 APRONS, CONCRETE, 48 IN. DIA.	1.000 EACH	1,865.00000		1,865.00	
0170	2416-1180024 CULVERT, CONCRETE ROADWAY PIPE, 24 IN. DIA.	20.000 LF	334.00000		6,680.00	
0180	2416-1180048 CULVERT, CONCRETE ROADWAY PIPE, 48 IN. DIA.	4.000 LF	478.00000		1,912.00	
0190	2417-2307036 DRAIN, CORRUGATED METAL SLOTTED PIPE, 36 IN., W/6 IN. GRATE	116.000 LF	76.00000		8,816.00	
0200	2417-5895015 BEVELED PIPE AND GUARD, 15 INCH	2.000 EACH	1,125.00000		2,250.00	
0210	2422-1720000 UNCLASSIFIED PIPE CULVERT, ENTRANCE, 15 IN. DIA.	268.000 LF	16.95000		4,542.60	

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Line No	Item Number Item Description	Item Quantity and Unit	Unit Price		Bid Amount	
			Dollars	Cts	Dollars	Cts
0220	2502-6745952 REMOVAL OF SUBDRAIN	1,370.000 LF	3.60000		4,932.00	
0230	2502-8212204 SUBDRAIN, PERFORATED PLASTIC PIPE, 4 IN. DIA.	23,639.000 LF	4.70000		111,103.30	
0240	2502-8220196 SUBDRAIN OUTLET, RF-19E	102.000 EACH	150.00000		15,300.00	
0250	2503-0500400 BRIDGE END DRAIN, RF-40	10.000 EACH	5,500.00000		55,000.00	
0260	2505-4008120 REMOVAL OF STEEL BEAM GUARDRAIL	3,527.000 LF	1.50000		5,290.50	
0270	2505-4008300 STEEL BEAM GUARDRAIL	2,181.300 LF	14.00000		30,538.20	
0280	2505-4008400 STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION	6.000 EACH	1,200.00000		7,200.00	
0290	2505-4021010 STEEL BEAM GUARDRAIL END ANCHOR, BOLTED	8.000 EACH	200.00000		1,600.00	
0300	2505-4021020 STEEL BEAM GUARDRAIL END ANCHOR, W-BEAM	2.000 EACH	800.00000		1,600.00	
0310	2505-4021700 STEEL BEAM GUARDRAIL END TERMINAL	10.000 EACH	1,700.00000		17,000.00	
0320	2505-6000111 HIGH TENSION CABLE GUARDRAIL	9,838.000 LF	9.25000		91,001.50	

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			Dollars	Cts	Dollars	Cts
0330	2505-6000121 HIGH TENSION CABLE GUARDRAIL, END ANCHOR	8.000 EACH	2,200.00000		17,600.00	
0340	2505-6000131 HIGH TENSION CABLE GUARDRAIL, SPARE PARTS KIT	8.000 EACH	2,200.00000		17,600.00	
0350	2510-6745850 REMOVAL OF PAVEMENT	100,917.000 SY	5.45000		549,997.65	
0360	2518-0470005 CROSSOVER BARRICADE	1.000 EACH	3,750.00000		3,750.00	
0370	2518-6765001 REMOVE AND REINSTALL CROSSOVER BARRICADES	1.000 EACH	1,750.00000		1,750.00	
0380	2518-6910000 SAFETY CLOSURE	4.000 EACH	100.00000		400.00	
0390	2524-6765014 REMOVE AND REINSTALL MILEPOST MARKER	2.000 EACH	100.00000		200.00	
0400	2524-6765015 REMOVE AND REINSTALL DELINEATOR POSTS	40.000 EACH	55.00000		2,200.00	
0410	2524-9089110 DELINEATOR, RIGID - TYPE IA	42.000 EACH	55.00000		2,310.00	
0420	2524-9210000 MILEPOST MARKERS	2.000 EACH	125.00000		250.00	
0430	2527-9263109 PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	1,366.900 STA	13.75000		18,794.88	

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Line No	Item Number Item Description	Item Quantity and Unit	Unit Price		Bid Amount	
			Dollars	Cts	Dollars	Cts
0440	2527-9263131 WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS	106.400 STA	120.00000		12,768.00	
0450	2527-9263137 PAINTED SYMBOLS AND LEGENDS, WATERBORNE OR SOLVENT-BASED	16.000 EACH	125.00000		2,000.00	
0460	2527-9263180 PAVEMENT MARKINGS REMOVED	1,405.840 STA	12.75000		17,924.46	
0470	2527-9263190 SYMBOLS AND LEGENDS REMOVED	16.000 EACH	125.00000		2,000.00	
0480	2528-4983200 MONITORING WITH INCIDENT RESPONSE	350.000 CDAY	200.00000		70,000.00	
0490	2528-8400048 TEMPORARY BARRIER RAIL, CONCRETE	360.000 LF	20.75000		7,470.00	
0500	2528-8400157 TEMPORARY FLOODLIGHTING LUMINAIRE	4.000 EACH	4,850.00000		19,400.00	
0510	2528-8445110 TRAFFIC CONTROL	LUMP	LUMP		62,500.00	
0520	2533-4980005 MOBILIZATION	LUMP	LUMP		599,700.00	
0530	2548-0000200 MILLED SHOULDER RUMBLE STRIPS, PCC SURFACE	236.790 STA	22.00000		5,209.38	
0540	2551-0000110 TEMP CRASH CUSHION	5.000 EACH	1,500.00000		7,500.00	

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Line No	Item Number Item Description	Item Quantity and Unit	Unit Price		Bid Amount	
			Dollars	Cts	Dollars	Cts
0550	2601-2634100 MULCHING 	 33.630  ACRE	 700.00000 	 	 23,541.00 	 
0560	2601-2638352 SLOPE  PROTECTION, WOOD  EXCELSIOR MAT	 1,005.000  SQ	 10.95000 	 	 11,004.75 	 
0570	2601-2642100 STABILIZING  CROP - SEEDING AND  FERTILIZING	 33.630  ACRE	 50.00000 	 	 1,681.50 	 
0580	2601-2643110 WATERING  FOR SOD, SPECIAL DITCH  CONTROL, OR SLOPE  PROTECTION	 201.000  MGAL	 60.00000 	 	 12,060.00 	 
0590	2601-2643300  MOBILIZATION FOR  WATERING	 3.000  EACH	 350.00000 	 	 1,050.00 	 
0600	2602-0000020 SILT FENCE 	 8,775.000  LF	 1.55000 	 	 13,601.25 	 
0610	2602-0000030 SILT FENCE  FOR DITCH CHECKS 	 780.000  LF	 1.85000 	 	 1,443.00 	 
0620	2602-0000050 SILT BASINS 	 10.000  EACH	 250.00000 	 	 2,500.00 	 
0630	2602-0000071 REMOVAL OF  SILT FENCE OR SILT FENCE  FOR DITCH CHECKS	 960.000  LF	 0.10000 	 	 96.00 	 
0640	2602-0000101 MAINTENANCE  OF SILT FENCE OR SILT  FENCE FOR DITCH CHECK 	 960.000  LF	 0.50000 	 	 480.00 	 
0650	2602-0000312 PERIMETER  AND SLOPE SEDIMENT  CONTROL DEVICE, 12 IN.  DIA.	 960.000  LF	 2.45000 	 	 2,352.00 	 

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Line No	Item Number Item Description	Item Quantity and Unit	Unit Price		Bid Amount	
			Dollars	Cts	Dollars	Cts

0660	2602-0000320 PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 20 IN. DIA.	960.000 LF	3.75000		3,600.00	
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0670	2602-0010010 MOBILIZATIONS, EROSION CONTROL	1.000 EACH	500.00000		500.00	
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0680	2602-0010020 MOBILIZATIONS, EMERGENCY EROSION CONTROL	1.000 EACH	1,000.00000		1,000.00	
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SECTION 0002 ALTERNATE 'AA' OPTION 1: PCC SHOULDERS  
 BID THIS SECTION IF ALTERNATE 'AA' OPTION 1 IS CHOSEN  
 ALT GROUP AA1

0690	2102-0425071 SPECIAL BACKFILL	3,623.400 CY	32.50000		117,760.50	
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0700	2122-5190007 PAVED SHOULDER, P.C. CONCRETE, 7 IN.	14,525.700 SY	32.05000		465,548.69	
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0710	2548-0000200 MILLED SHOULDER RUMBLE STRIPS, PCC SURFACE	207.420 STA	22.00000		4,563.24	
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SECTION 0004 ALTERNATE 'BB' OPTION 1: NO MACHINE CONTROL  
 BID THIS SECTION IF ALTERNATE 'BB' OPTION 1 IS CHOSEN  
 ALT GROUP BB1

0770	2526-8285000 CONSTRUCTION SURVEY	LUMP	LUMP		75,000.00	
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SECTION 0006 ROADWAY ITEMS - NON-PARTICIPATING

0810	2555-0000010 DELIVER AND STOCKPILE SALVAGED MATERIALS	LUMP	LUMP		500.00	
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SECTION 0007 DESIGN NO. 0813; A 172'-2 X 40'-0 PRETENSIONED PRESTRESSED  
 CONCRETE BEAM BRIDGE - RETROFIT CONCRETE BARRIER RAILING

CONTRACT SCHEDULE OF PRICES

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Line No	Item Number Item Description	Item Quantity and Unit	Unit Price		Bid Amount	
			Dollars	Cts	Dollars	Cts
0820	2401-6745636 REMOVAL OF EXISTING HANDRAIL AND END POSTS	LUMP	LUMP			2,808.00
0830	2414-6431100 RETROFIT CONCRETE BARRIER RAILING	380.000 LF	59.75000			22,705.00
0840	2499-0800000 PAVING NOTCH REPLACEMENT	80.000 LF	218.46000			17,476.80
SECTION 0008 DESIGN NO. 0913; A 172'-2 X 40'-0 PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGE - RETROFIT CONCRETE BARRIER RAILING						
0850	2401-6745636 REMOVAL OF EXISTING HANDRAIL AND END POSTS	LUMP	LUMP			2,808.00
0860	2414-6431100 RETROFIT CONCRETE BARRIER RAILING	380.000 LF	59.75000			22,705.00
0870	2499-0800000 PAVING NOTCH REPLACEMENT	80.000 LF	218.46000			17,476.80
SECTION 0009 PAYMENT ADJUSTMENT INCENTIVE ITEMS						
0880	2301-7000110 PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT THICKNESS (BY SCHEDULE)	80,000.000 EACH	1.00000			80,000.00
0890	2301-7000120 PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR QM-C PCC PAVEMENT COARSENESS AND WORKABILITY FACTORS	72,000.000 EACH	1.00000			72,000.00

CONTRACT SCHEDULE OF PRICES

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			Dollars	Cts	Dollars	Cts
0900	2317-7000110 PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT SMOOTHNESS (BY SCHEDULE)	66,000.000 EACH	1.00000		66,000.00	
TOTAL BID						7,919,579.26

# A d d e n d u m

Iowa Department of Transportation  
Office of Contracts

Date of Letting: April 16, 2013  
Date of Addendum: April 4, 2013

<b>B.O.</b>	<b>Proposal ID</b>	<b>Proposal Work Type</b>	<b>County</b>	<b>Project Number</b>	<b>Addendum</b>
109	78-0292-078	PCC PAVEMENT - GRADE & REPLACE	POTTAWATTAMIE	IMX-029-2(78)44--02-78	16APR109.A01

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Notice: Only the bid proposal holders receive this addendum and responsibility for notifying any potential subcontractors or suppliers remains with the proposal holder.

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Make the following change to plan sheet J.1:

Replace plan sheet J.1 with attached plan sheet J.1.

Note: Tabulation 102-15 was revised. Tabulation 111-01 was added.

**TRAFFIC CONTROL PLAN**

108-23A  
08-01-08

INTERSTATE 29 SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES. CONSTRUCTION STAGING REQUIRES THE USE OF THE TC-61 STANDARD ROAD PLAN TO SWITCH TRAFFIC TO TWO-LANE, TWO-WAY OPERATIONS TO ACCOMMODATE CLOSING THE SOUTHBOUND LANES DURING THEIR RECONSTRUCTION AND THE NORTHBOUND LANES DURING THEIR RECONSTRUCTION.

THE CONTRACTOR SHALL UTILIZE STANDARD ROAD PLAN TC-402 DURING CONSTRUCTION OF THE MEDIAN CROSSOVER AT STA. 210+04.

**STAGING NOTES**

108-26A  
08-01-08

**STAGE 1A**  
CONSTRUCT MEDIAN CROSSOVER AT STA. 210+04  
PREPARE EXISTING MEDIAN CROSSOVER AT STA 60+25 FOR TRAFFIC.  
REMOVE AND INSTALL PAVEMENT MARKING FOR STAGE 1 RECONSTRUCTION.  
INSTALL TC-61, SHIFTING TRAFFIC TO THE NORTHBOUND LANES.  
INSTALL TC-420 AT THE SB ENTRANCE RAMP FROM HWY 92.

**STAGE 1B**  
SWITCH TRAFFIC TO TWO-LANE, TWO-WAY OPERATION IN THE NORTHBOUND LANES.  
RECONSTRUCT SOUTHBOUND LANES.  
REMOVE 3' OF MEDIAN CROSSOVER PAVEMENT ADJACENT TO THE SOUTHBOUND LANES AT STA. 60+25 TO ACCOMMODATE SLIPFORM PAVING.  
PERFORM BRIDGE WORK AT THE SOUTHBOUND PONY CREEK BRIDGE, STA. 78+61.  
EXTEND MEDIAN PIPES UNDER SOUTHBOUND LANES AND PIPE AT STA. 107+06.  
INSTALL ALL SOUTHBOUND GUARDRAIL AND THE HIGH TENSION CABLE GUARDRAIL AT STA.109+92 LT.  
COMPLETE EROSION CONTROL AND STABILIZING SEEDING ADJACENT TO THE SOUTHBOUND LANES.

**STAGE 2A**  
REMOVE AND INSTALL PAVEMENT MARKING FOR STAGE 2 RECONSTRUCTION.  
INSTALL TC-61, SHIFTING TRAFFIC TO THE NEWLY CONSTRUCTED SOUTHBOUND LANES.

**STAGE 2B**  
SWITCH TRAFFIC TO TWO-LANE, TWO-WAY OPERATION IN THE SOUTHBOUND LANES.  
RECONSTRUCT NORTHBOUND LANES.  
REMOVE 3' OF MEDIAN CROSSOVER PAVEMENT ADJACENT TO THE NORTHBOUND LANES AT STA. 60+25 TO ACCOMMODATE SLIPFORM PAVING.  
PERFORM BRIDGE WORK AT THE NORTHBOUND PONY CREEK BRIDGE, STA. 78+61.  
EXTEND THE MEDIAN PIPE UNDER THE NORTHBOUND LANES.  
INSTALL NORTHBOUND GUARDRAIL AND THE REMAINING HIGH TENSION CABLE GUARDRAIL.  
COMPLETE EROSION CONTROL AND STABILIZING SEEDING ADJACENT TO THE NORTHBOUND LANES.

**TABULATION OF SPECIAL EVENTS**

102-15  
08-01-08

Event	Location	Date
COLLEGE WORLD SERIES	OMAHA, NEBRASKA	JUNE 14-20, 2013
FIREWORKS DISPLAY	OMAHA, NEBRASKA	JULY 4, 2013
ROCK n ROLL REUNION	GLENWOOD, IOWA	JULY 4, 2013
2013 US SENIOR OPEN GOLF CHAMPIONSHIP	OMAHA, NEBRASKA	JULY 8 - 14, 2013
RED, WHITE AND QUE	BELLEVUE, NEBRASKA	JULY 19 - 24, 2013
WESTFAIR	COUNCIL BLUFFS, IOWA	JULY 24-29, 2013
SIDNEY RODEO	SIDNEY, IOWA	JULY 30 - AUGUST 3, 2013
KEG CREEK DAYS	GLENWOOD, IOWA	AUGUST, 2013
ARROWS TO AEROSPACE	BELLEVUE, NEBRASKA	AUGUST 15 - 17, 2013
OFFUTT AIR SHOW	BELLEVUE, NEBRASKA	AUGUST 24 - 25, 2013
SEPTEMBERFEST	OMAHA, NEBRASKA	AUG. 30-31 SEPT. 1-2, 2013
APPLEJACK FESTIVAL	NEBRASKA CITY, NEBRASKA	SEPTEMBER 20 - 22, 2013
RIVERCITY ROUNDUP	OMAHA, NEBRASKA	SEPTEMBER 26-29, 2013
HOME-COMING REUNION	GLENWOOD, IOWA	OCTOBER, 2013
MID-AMERICA MOTORPLEX	PACIFIC JUNCTION, IOWA	WEEKENDS

**COORDINATED OPERATIONS**

111-01  
04-17-12

Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.

Project	Type of Work
	MULTIPLE ON-GOING PROJECTS AND LANE RESTRICTIONS WITHIN THE CD CORRIDOR

# A d d e n d u m

Iowa Department of Transportation  
Office of Contracts

Date of Letting: April 16, 2013  
Date of Addendum: April 5, 2013

B.O.	Proposal ID	Proposal Work Type	County	Project Number	Addendum
109	78-0292-078	PCC PAVEMENT - GRADE & REPLACE	POTTAWATTAMIE	IMX-029-2(78)44--02-78	16APR109.A02

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Notice: Only the bid proposal holders receive this addendum and responsibility for notifying any potential subcontractors or suppliers remains with the proposal holder.

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Make the following changes to the plan:

Replace plan sheets B.4, C.1, C.2, C.3, C.4, C.5, C.7, C.8, C.11, C.19, V.1 and V.4 with attached plan sheets B.4, C.1, C.2, C.3, C.4, C.5, C.7, C.8, C.11, C.19, V.1 and V.4.

Make the following change to plan sheet C.3:

For Item Code 2105-8425005 TOPSOIL, FURNISH AND SPREAD add the following Estimate Reference Information:

Topsoil computed based on area disturbed from edge of paved outer shoulders to slope intercepts and from edge of paved median shoulder (SB) to edge of paved median shoulder (NB).

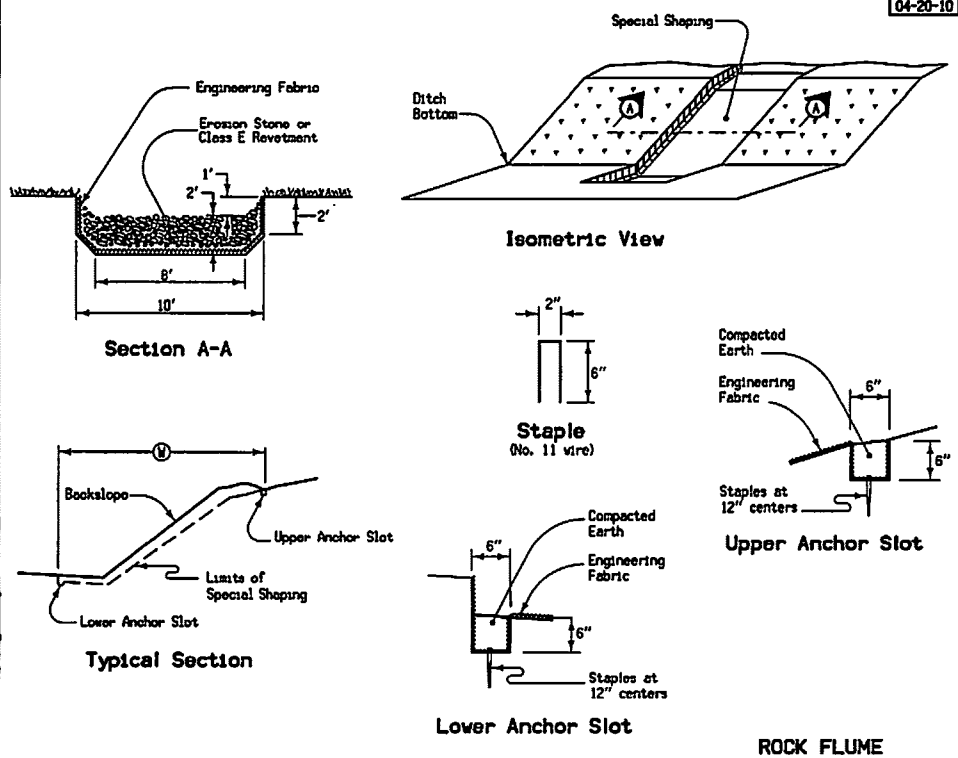
For Item Code 2123-7450000 SHOULDER CONSTRUCTION, EARTH add the following Estimate Reference Information:

The top 6" of Earth Shoulder Construction material is paid for as Topsoil, Furnish and Spread.

The following shall be included in the plan set:

Station 60+20 = M.P. 44.74 (+/-)  
Station 176+65 = M.P. 46.95 (+/-)

4403  
04-20-10



Refer to Tabulation 100-23 for additional information.

Road Design Detail 7145 deleted from Final Plans.  
Earth Fill to be used in lieu of Granular Shoulder Fillet.  
Top 6' of Earth Shoulder Fill is Topsoil and included in Topsoil Quantities.

7145  
04-15-03

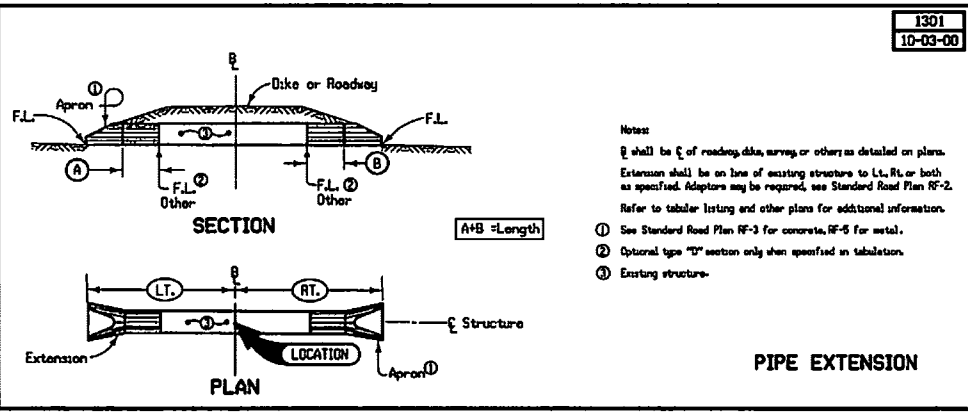
Notes:  
This typical illustrates the construction requirements for an aggregate fillet at the edge of a paved shoulder.  
The aggregate used in the fillet shall meet the requirements of Aggregate for Paved Shoulder Fillet, as specified in Article 712.02.  
The furnishing and finishing of aggregate for paved shoulder fillets is incidental to the paved shoulder.

① Not a bid item. Quantities are per station per side.  
② Match slope of under side of shoulder pavement.  
③ 6:1 Slope minimum.

ROAD IDENTIFICATION	LOCATION		SIDE	QUANTITIES ①	
	STATION TO STATION			AGGREGATE FOR PAVED SHOULDER FILLET	
				PPC 10mm	MMA Tons
1-29 SB	60+20	77+43.5	LT	13.37	---
1-29 SB	79+98.9	82+13.6	LT	15	15.68
1-29 SB	82+13.6	105+65.0	LT	13.37	---
1-29 SB	105+65.0	110+62.4	LT	15	15.68
1-29 SB	110+62.4	167+07.5	LT	13.37	---
1-29 SB	170+12.5	172+81.1	LT	15	15.68
1-29 SB	172+81.1	176+65.0	LT	13.37	---
1-29 SB	62+67.5	77+43.5	RT	15	15.68
1-29 SB	79+98.9	167+07.7	RT	15	15.68
1-29 SB	170+12.3	176+65.0	RT	15	15.68
1-29 NB	62+63.6	77+43.4	LT	15	15.68
1-29 NB	79+98.9	166+30.3	LT	15	15.68
1-29 NB	169+34.6	176+65.0	LT	15	15.68
1-29 NB	60+20	75+28.6	RT	13.37	---
1-29 NB	75+28.6	77+43.3	RT	15	15.68
1-29 NB	79+98.8	103+36.9	RT	13.37	---
1-29 NB	103+36.9	107+22.0	RT	15	15.68
1-29 NB	107+22.0	161+11.5	RT	13.37	---
1-29 NB	161+11.5	165+95.9	RT	15	15.68
1-29 NB	169+34.6	176+65.0	RT	13.37	---

**AGGREGATE FOR PAVED SHOULDER FILLET**

1301  
10-03-00



**PROJECT DESCRIPTION**

This project includes the complete reconstruction of both NB and SB I-29 from Sta. 68+20 to Sta. 176+65. The existing roadway will be replaced with new PCC pavement. The outside shoulder will be constructed full depth and 12' wide, and paid for as concrete pavement. All shoulders and pavement north of the BNRR Bridge at Sta. 168+21 will be placed full depth to address staging on future projects. The full depth shoulders will be placed and paid for as PCC pavement. The inside shoulder at all other locations will be alternative pavement HMA or PCC. Median drains will be extended in the median to accommodate the new typical section. The new roadway will be 2' wider than the existing typical section, and it will have flatter slopes. Guardrail will be updated throughout the project. High-Tension Cable Guardrail will be installed throughout the project in the median.

This project will be completed in two stages, SB lanes first and NB lanes second. Traffic will run in a two-lane, two-way operation in the lanes not being constructed. A new median crossover will be constructed at the north end of the project, an existing median crossover will be Used-As-Constructed at the south end of the project.

All median and side slopes will be stripped at the completion of the each stage and seeded with Stabilizing Seed Crop.

**ESTIMATED PROJECT QUANTITIES  
(UP TO A 5 DIVISION PROJECT)**

Division 1: Roadway Items  
Division 2: Bridge Items (Refer to Sheets V.1 and V.4)  
Division 3: Alternate AA Option 1  
Division 4: Alternate AA Option 2  
Division 5: Alternate BB Option 1

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Item No.	Item Code	Item	Unit	Estimated					Total	As Built				
				Division 1	Division 2	Division 3	Division 4	Division 5		Division 1	Division 2	Division 3	Division 4	Division 5
1	2102-0425071	SPECIAL BACKFILL	CY	35166										
2	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	86774										
3	2102-2713070	EXCAVATION, CLASS 13, ROADWAY AND BORROW	CY	685										
4	2105-0425005	TOPSOIL, FURNISH AND SPREAD	CY	18384										
5	2111-0174100	GRANULAR SUBBASE	SY	104450										
6	2121-7425020	GRANULAR SHOULDERS, TYPE B	TON	215										
7	2122-5190501	PAVED SHOULDER, PORTLAND CEMENT CONCRETE (PAVED SHOULDER PANEL FOR BRIDGE END DRAIN)	SY	251.5										
8	2123-7450000	SHOULDER CONSTRUCTION, EARTH	STA	443.75										
9	2301-0690200	BRIDGE APPROACH, RK-20	SY	1066.3										
10	2301-1004110	STANDARD OR SLIP-FORM PORTLAND CEMENT CONCRETE PAVEMENT, OM-C, CLASS 3I DURABILITY, 11 IN.	SY	89175.3										
11	2301-0090000	QUALITY MANAGEMENT - CONCRETE (QM-C)	CY	27678										
12	2301-0090000	DETOUR PAVEMENT	SY	2939										
13	2412-0160350	GRANULAR SURFACING ON ROAD, CRUSHED STONE	TON	25										
14	2412-0000100	LONGITUDINAL GROOVING IN CONCRETE	SY	1112.4										
15	2416-0100024	APRONS, CONCRETE, 24 IN. DIA.	EACH	5										
16	2416-0100048	APRONS, CONCRETE, 48 IN. DIA.	EACH	1										
17	2416-1180024	CULVERT, CONCRETE ROADWAY PIPE, 24 IN. DIA.	LF	20										
18	2416-1180048	CULVERT, CONCRETE ROADWAY PIPE, 48 IN. DIA.	LF	4										
19	2417-2307036	DRAIN, CORRUGATED METAL, SLOTTED PIPE, 36 IN., W/6 IN. GRATE	LF	116										
20	2417-5090915	BEVELED PIPE AND GUARD, 15 INCH	EACH	2										
21	2422-1720000	UNCLASSIFIED PIPE CULVERT, ENTRANCE, 15 IN. DIA.	LF	268										
22	2502-6745052	REMOVAL OF SUBDRAIN	LF	1370										
23	2502-8212204	SUBDRAIN, PERFORATED PLASTIC PIPE, 4 IN. DIA.	LF	23639										
24	2502-8220196	SUBDRAIN OUTLET, RF-19E	EACH	102										
25	2503-0500400	BRIDGE END DRAIN, RF-40	EACH	30										
26	2505-4000120	REMOVAL OF STEEL BEAM GUARDRAIL	LF	3527										
27	2505-4000300	STEEL BEAM GUARDRAIL	LF	2151.3										
28	2505-4000400	STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION	EACH	6										
29	2505-4021010	STEEL BEAM GUARDRAIL END ANCHOR, BOLTED	EACH	8										
30	2505-4021020	STEEL BEAM GUARDRAIL END ANCHOR, W-BEAM	EACH	2										
31	2505-4021700	STEEL BEAM GUARDRAIL END TERMINAL	EACH	10										
32	2505-6000111	HIGH TENSION CABLE GUARDRAIL	LF	9838										
33	2505-6000121	HIGH TENSION CABLE GUARDRAIL, END ANCHOR	EACH	8										
34	2505-6000131	HIGH TENSION CABLE GUARDRAIL, SPARE PARTS KIT	EACH	0										
35	2510-6745050	REMOVAL OF PAVEMENT	SY	100917										
36	2510-0470005	CROSSOVER BARRICADE	EACH	1										
37	2510-6765001	REMOVE AND REINSTALL CROSSOVER BARRICADES	EACH	1										
38	2510-6910000	SAFETY CLOSURE	EACH	4										
39	2524-6765014	REMOVE AND REINSTALL MILEPOST MARKERS	EACH	2										
40	2524-6765015	REMOVE AND REINSTALL DELINEATOR POSTS	EACH	40										
41	2524-9210010	DELINEATOR BEGID - TYPE 1A	EACH	2										
42	2524-9210000	MILEPOST MARKERS	EACH	2										
43	2527-9263100	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	STA	1366.0										
44	2527-9263131	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS	STA	106.4										
45	2527-9263137	PAINTED SYMBOLS AND LEGENDS, WATERBORNE OR SOLVENT-BASED	EACH	16										
46	2527-9263180	PAVEMENT MARKINGS REMOVED	STA	1405.04										
47	2527-9263190	SYMBOLS AND LEGENDS REMOVED	EACH	16										
48	2528-0400100	WHITING WITH INCIDENT RESPONSE	CDAY	BY CONTRACTS										
49	2528-0400040	TEMPORARY BARRIER RAIL	LF	350										
50	2528-0400157	TEMPORARY FLOODLIGHTING LUMINAIRE	EACH	4										
51	2520-0445110	TRAFFIC CONTROL	LS	1										
52	2533-4900005	MOBILIZATION	LS	1										
53	2540-0000200	MILLED SHOULDER RUMBLE STRIPS, PCC SURFACE	STA	236.79										
54	2551-0000110	TEMPORARY CRASH CUSHION	EACH	5										
55	2601-2634100	MULCHING	ACRE	33.63										
56	2601-2638352	SLOPE PROTECTION, WOOD EXCELSION MAT	SQ	1005										
57	2601-2642100	STABILIZE CROP - SEED/FERTILIZE	ACRE	33.63										

**ESTIMATED PROJECT QUANTITIES  
(UP TO A 5 DIVISION PROJECT)**

Division 1: Roadway Items  
Division 2: Bridge Items (Refer to Sheets V.1 and V.4)  
Division 3: Alternate AA Option 1  
Division 4: Alternate AA Option 2  
Division 5: Alternate BS Option 1

Item No.	Item Code	Item	Unit	Quantities																	
				Estimated					As Built												
				Division 1	Division 2	Division 3	Division 4	Division 5	Total	Division 1	Division 2	Division 3	Division 4	Division 5							
58	2601-3643110	WATERING FOR SOO, SPECIAL DITCH CONTROL, OF SLOPE PROTECTION	MGAL	201																	
59	2601-3643200	MOBILIZATIONS FOR WATERING	EACH	3																	
60	2602-0000010	SILT FENCE	LF	8775																	
61	2602-0000030	SILT FENCE FOR DITCH CHECKS	LF	780																	
62	2602-0000050	SILT BASINS	EACH	10																	
63	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	960																	
64	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF	960																	
65	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	960																	
66	2602-0000320	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 20 IN. DIA.	LF	960																	
67	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	1																	
68	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	1																	
ALTERNATE AA OPTION 1																					
69	2102-0425071	SPECIAL BACKFILL	CY			3623.4															
70	2122-5190007	PAVED SHOULDER, P.C. CONCRETE, 7 IN.	SY			14525.7															
71	2548-0000200	HILLED SHOULDER RUMBLE STRIPS, PCC SURFACE	STA			207.42															
ALTERNATE AA OPTION 2																					
72	2102-0425071	SPECIAL BACKFILL	CY				3152.9														
73	2122-5300000	PAVED SHOULDER, HOT MIX ASPHALT MIXTURE, 8 IN.	SY				14525.7														
74	2548-0000100	HILLED SHOULDER RUMBLE STRIPS, PPA SURFACE	STA				207.42														
75	2548-0000110	ASPHALT EMULSION FOR FOG SEAL (SHOULDER RUMBLE STRIPS)	GAL				224.7														
76	2303-6911000	HOT MIX ASPHALT PAVEMENT SAMPLES	LS				1														
ALTERNATE BS OPTION 1																					
77	2526-8285000	CONSTRUCTION SURVEY	LS							1											

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**ESTIMATED PROJECT QUANTITIES  
(UP TO A 5 DIVISION PROJECT)**

Division 6: Alternate BS Option 2  
Division 7: Non-Participating Items

Item No.	Item Code	Item	Unit	Quantities																	
				Estimated					As Built												
				Division 6	Division 7	Division 8	Division 9	Division 10	Total	Division 1	Division 2	Division 3	Division 4	Division 5							
ALTERNATE BS OPTION 2																					
78	2301-9090100	PCC PAVING 3-D MACHINE CONTROL	LS	1																	
79	2526-8285000	CONSTRUCTION SURVEY	LS	1																	
80	2526-8286000	GPS MACHINE CONTROL GRADING	LS	1																	
NON-PARTICIPATING ITEMS																					
81	2555-0000010	DELIVER AND STOCKPILE SALVAGE MATERIALS	LS			1															

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
1	2102-0425071	SPECIAL BACKFILL REFER TO TYPICAL 4D GRADE ON SHEET B.1 AND TYPICAL ON SHEET B.2 FOR LOCATIONS AND DETAILS OF CONSTRUCTION. REFER TO TAB 112-9 ON SHEETS C.17 AND C.18 FOR LOCATIONS. CONTRACTOR MAY RECYCLE EXISTING PAVEMENT TO USE AS SPECIAL BACKFILL IN ACCORDANCE WITH DOT MATERIAL REQUIREMENTS.
2	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW TEMPLATE QUANTITIES INCLUDE SPECIAL SHAPING AT GUARDRAIL LOCATIONS. REFER TO TAB 107-29 SHEETS T.1 - T.4 FOR DETAILED CUTS AND FILLS. REFER TO TYPICAL 4D GRADE ON SHEET B.1 FOR DETAILS OF CONSTRUCTION. REFER TO STANDARD ROAD PLANS EM-301, RL-2A, RL-9, AND RL-12 FOR ADDITIONAL DETAILS. OVERHAUL WILL NOT BE MEASURED FOR PAYMENT ON THIS PROJECT, BUT SHALL BE CONSIDERED INCIDENTAL TO THE ROADWAY EXCAVATION ON THIS PROJECT. THE EXISTING PAVEMENT REMOVAL VOLUME HAS BEEN DEDUCTED FROM THIS QUANTITY. A SHRINKAGE FACTOR OF 30% HAS BEEN APPLIED TO THE CLASS 10 FILL VOLUMES. REFER TO TAB 103-7 ON SHEET C.7. THIS PROJECT INCLUDES 86,774 CY OF CUT AND 5,441 CY OF ADJUSTED FILL. THERE WILL BE APPROXIMATELY 81,333 CY OF WASTE ON THIS PROJECT.
3	2102-2713070	EXCAVATION, CLASS 13, ROADWAY AND BORROW REFER TO TAB 112-8 ON SHEET C.8 FOR LOCATIONS. REFER TO STANDARD ROAD PLAN PV-500 FOR DETAILS OF CONSTRUCTION.
4	2105-0425005	TOPSOIL, FURNISH AND SPREAD REFER TO TAB 103-4 ON SHEET C.20. A SHRINKAGE ADJUSTMENT OF 40% HAS BEEN APPLIED TO THE TOPSOIL. AVERAGE DEPTH OF TOPSOIL WILL BE 6 INCHES.
5	2111-0174100	GRANULAR SUBBASE REFER TO TYPICAL 4DP ON SHEET B.2 FOR LOCATIONS AND DETAILS OF CONSTRUCTION.
6	2121-7425020	GRANULAR SHOULDERS, TYPE B REFER TO TAB 112-8 ON SHEET C.8 FOR LOCATIONS. REFER TO STANDARD ROAD PLAN PV-500 FOR DETAILS OF CONSTRUCTION.
7	2122-5190501	PAVED SHOULDER, PORTLAND CEMENT CONCRETE (PAVED SHOULDER PANEL FOR BRIDGE END DRAIN) REFER TO TAB 104-6A ON SHEET C.12 FOR LOCATIONS. REFER TO TAB 100-27 ON SHEET C.7 FOR SMOOTHNESS AND TEXTURE. REFER TO STANDARD ROAD PLANS RF-40, PV-12, PV-101, PV-102 AND RK-20 FOR DETAILS OF CONSTRUCTION.
8	2123-7450000	SHOULDER CONSTRUCTION, EARTH REFER TO TAB 112-9 ON SHEETS C.17 AND C.18 FOR LOCATIONS.
9	2301-0690200	BRIDGE APPROACH, RK-20 REFER TO TAB 112-6 ON SHEET C.12 FOR LOCATIONS. REFER TO STANDARD ROAD PLANS RK-20, PV-12, PV-101 AND PV-102 FOR DETAILS OF CONSTRUCTION.
10	2301-1004110	STANDARD OR SLIP-FORM PORTLAND CEMENT CONCRETE PAVEMENT, (M-C, CLASS 31 DURABILITY, 11 IN. REFER TO TYPICALS 4DP AND 4_P_FULLPCC ON SHEETS B.2 AND B.3 FOR DETAILS. FULL DEPTH SHOULDER TO BE PAID AS PCC PAVEMENT. REFER TO TAB 100-24 ON SHEET C.10 FOR LOCATIONS. REFER TO STANDARD ROAD PLANS PV-12, PV-101 AND PV-102 FOR ADDITIONAL DETAILS.
11	2301-9090000	QUALITY MANAGEMENT - CONCRETE (M-C)
12	2304-0100000	DETOUR PAVEMENT REFER TO TAB 112-8 ON SHEET C.8 FOR LOCATIONS. REFER TO STANDARD ROAD PLAN PV-500 FOR DETAILS OF CONSTRUCTION. DETOUR PAVEMENT TO BE USED TO REPLACE SEGMENTS OF CROSSOVER AT STA. 60+20 TO ACCOMMODATE S/F PAVING.
13	2312-0260250	GRANULAR SURFACING ON ROAD, CRUSHED STONE USE TO DRESS THE MAINTENANCE CROSS-OVER AT STA. 150+40.
14	2412-0000100	LONGITUDINAL GROOVING IN CONCRETE REFER TO TAB 100-28 ON SHEET C.7.
15	2416-0100024	APRONS, CONCRETE, 24 IN. DIA.
16	2416-0100048	APRONS, CONCRETE, 48 IN. DIA.
17	2416-1180024	CULVERT, CONCRETE ROADWAY PIPE, 24 IN. DIA.
18	2416-1180048	CULVERT, CONCRETE ROADWAY PIPE, 48 IN. DIA. REFER TO TAB 104-3 ON SHEET C.11 FOR LOCATIONS. REFER TO TYPICAL 1301 ON SHEET B.4 AND STANDARD ROAD PLANS RF-2, RF-3, RF-14, RF-26, RF-30A, RF-30C AND RF-31 FOR DETAILS OF CONSTRUCTION AND ADDITIONAL INFORMATION.
19	2417-2307036	DRAIN, CORRUGATED METAL SLOTTED PIPE, 36 IN., W/6 IN. GRATE
20	2417-5895015	BEVELED PIPE AND GUARD, 15 INCH REFER TO TAB 112-8 ON SHEET C.8 FOR LOCATIONS. REFER TO STANDARD ROAD PLANS PV-500, RF-27 AND RF-45 FOR DETAILS OF CONSTRUCTION.
21	2422-1720000	UNCLASSIFIED PIPE CULVERT, ENTRANCE, 15 IN. DIA. REFER TO TAB 112-8 ON SHEET C.8 FOR LOCATIONS. REFER TO STANDARD ROAD PLANS PV-500, RF-27 AND RF-45 FOR DETAILS OF CONSTRUCTION. DESCRIPTION: CONSTRUCT AND INSTALL ENTRANCE CULVERT FOR WHICH INSIDE DIMENSIONS AND LENGTH ARE AS NOTED IN PLANS. THE SELECTION OF PIPE OF A TYPE PERMITTED BY SECTION 2422 OF THE SPECIFICATIONS. REFER TO ARTICLE 2416.01 OF THE SPECIFICATIONS FOR DEFINITIONS OF ENTRANCE CULVERTS.

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ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
		SELECT THE TYPE OF PIPE CULVERT FOR UNCLASSIFIED ENTRANCE PIPE FROM TABLE 2422.02-2 IN THE SPECIFICATIONS. REFER TO 2422.03 FOR METHODS OF CONSTRUCTION. REFER TO 2422.04 FOR METHOD OF MEASUREMENT. REFER TO 2422.05 FOR BASIS OF PAYMENT.
22	2502-6745952	REMOVAL OF SUBDRAIN MEASUREMENT FOR THIS ITEM WILL BE BASED ON LINEAR FEET OF EXISTING SUBDRAIN REMOVED, FROM END OF OUTLET TO END OF RUN. BASIS OF PAYMENT SHALL BE FULL COMPENSATION FOR TRENCHING AND BACKFILLING NECESSARY TO REMOVE THE SUBDRAIN AND RESTORE THE SUBGRADE TO STABLE CONDITION. IT SHALL INCLUDE ALL LABOR, EQUIPMENT AND TOOLS NECESSARY TO COMPLETE THE WORK. PAYMENT INCLUDES DISPOSAL OF THE SUBDRAIN AND ITS APPURTENANCES.
23	2502-0212204	SUBDRAIN, PERFORATED PLASTIC PIPE, 4 IN. DIA.
24	2502-0220196	SUBDRAIN OUTLET, RF-19E REFER TO TAB 104-9 ON SHEETS C.13 AND C.14 FOR LOCATIONS. REFER TO STANDARD ROAD PLANS RF-19C AND RF-19E FOR DETAILS OF CONSTRUCTION. REFER TO TYPICALS ON SHEET B.2 FOR LOCATIONS.
25	2503-0500400	BRIDGE END DRAIN, RF-40 REFER TO TAB 104-8A ON SHEET C.12 FOR LOCATIONS. REFER TO STANDARD ROAD PLAN RF-40.
26	2505-4008120	REMOVAL OF STEEL BEAM GUARDRAIL REFER TO TAB 110-7A ON SHEET C.12 FOR LOCATIONS. REFER TO TAB 110-13 ON SHEET C.7 FOR DETAILS OF SALVAGED GUARDRAIL.
27	2505-4008300	STEEL BEAM GUARDRAIL
28	2505-4008400	STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION
29	2505-4021010	STEEL BEAM GUARDRAIL END ANCHOR, BOLTED
30	2505-4021020	STEEL BEAM GUARDRAIL END ANCHOR, W-BEAM
31	2505-4021700	STEEL BEAM GUARDRAIL END TERMINAL REFER TO TABS 108-8A MOD AND 108-8C ON SHEET C.11 FOR LOCATIONS. REFER TO TAB 107-23 ON SHEET C.19 FOR GRADING LOCATIONS. REFER TO STANDARD ROAD PLANS BA-200, 201, 202, 203, 205, 250 AND 251; AND SI-211 FOR DETAILS OF CONSTRUCTION. REFER TO TAB EM-301 FOR DETAILS OF GRADING BEHIND GUARDRAIL.
32	2505-6000111	HIGH TENSION CABLE GUARDRAIL
33	2505-6000121	HIGH TENSION CABLE GUARDRAIL, END ANCHOR
34	2505-6000131	HIGH TENSION CABLE GUARDRAIL, SPARE PARTS KIT REFER TO TAB 107-24 ON SHEET C.12 FOR LOCATIONS. REFER TO TAB 107-24 ON SHEET C.20 FOR GRADING LOCATIONS. REFER TO STANDARD ROAD PLAN BA-351 AND RL-12 FOR DETAILS OF CONSTRUCTION.
35	2510-6745050	REMOVAL OF PAVEMENT REFER TO TABS 102-5 ON SHEET C.7 AND 110-1 AND 112-8 ON SHEET C.8 FOR DETAILS OF EXISTING PAVEMENT AND REMOVAL LOCATIONS.
36	2510-0470005	CROSSOVER BARRICADE
37	2510-6765001	REMOVE AND REINSTALL CROSSOVER BARRICADES REFER TO DETAIL SHEET 540-13 ON SHEET U.1 FOR DETAILS OF CONSTRUCTION. REMOVE AND REINSTALL CROSSOVER BARRICADE AT STA. 60+20; INSTALL CROSSOVER BARRICADE AT STA. 210+84 AT COMPLETION OF PROJECT.
38	2510-6910000	SAFETY CLOSURE REFER TO TAB 108-13A ON SHEET C.7 FOR LOCATIONS. REFER TO STANDARD ROAD PLAN TC-61 FOR DETAILS OF CONSTRUCTION.
39	2524-6765014	REMOVE AND REINSTALL MILEPOST MARKERS
40	2524-6765015	REMOVE AND REINSTALL DELINEATOR POSTS REFER TO TAB HQ-51 ON SHEET N.1 FOR LOCATIONS AND DETAILS. REFER TO STANDARD ROAD PLANS SI-171 AND SI-172 FOR ADDITIONAL DETAILS. MEASUREMENT FOR THIS ITEM WILL BE FOR EACH DELINEATOR OR MILEPOST MARKER THAT IS REMOVED, STORED BY THE CONTRACTOR AND REINSTALLED AT ITS ORIGINAL LOCATION. BASIS OF PAYMENT WILL INCLUDE ALL MATERIALS, TOOLS, EQUIPMENT AND LABOR NECESSARY TO REMOVE EACH SIGN WITHOUT DAMAGING, STORING IN A SAFE LOCATION AND REINSTALLING WITHOUT DAMAGE. ANY MILEPOST SIGNS, DELINEATORS OR THEIR RESPECTIVE POSTS WHICH ARE DAMAGED AS A RESULT OF THE CONTRACTORS OPERATIONS, SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
41	2524-9080110	DELINEATOR RIGID - TYPE 1A
42	2524-9210000	MILEPOST MARKERS REFER TO TAB HQ-51 ON SHEET N.1 FOR LOCATIONS AND DETAILS. REFER TO STANDARD ROAD PLANS SI-171 AND SI-172 FOR ADDITIONAL DETAILS. AT LOCATIONS WHERE DELINEATORS ARE NOTED FOR REMOVAL AND REPLACEMENT WITH A NEW DELINEATOR, THE COST OF REMOVAL AND DISPOSAL SHALL BE CONSIDERED INCIDENTAL TO THE NEW DELINEATOR.
43	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED REFER TO TAB 108-22 ON SHEETS C.15 AND C.16 FOR LOCATIONS. REFER TO STANDARD ROAD PLAN PH-110 FOR ADDITIONAL INFORMATION.
44	2527-9263131	MEY RETROREFLECTIVE REMOVABLE TAPE MARKINGS REFER TO TAB 108-22 ON SHEETS C.15 AND C.16 FOR LOCATIONS. REFER TO STANDARD ROAD PLANS PH-110 AND TC-61 FOR ADDITIONAL INFORMATION.
45	2527-9263137	PAINTED SYMBOLS AND LEGENDS, WATERBORNE OR SOLVENT-BASED

**ESTIMATE REFERENCE INFORMATION**

Item No.	Item Code	Description
		REFER TO TAB 108-29 ON SHEET C.16 FOR LOCATIONS. REFER TO STANDARD ROAD PLAN PM-110 FOR ADDITIONAL INFORMATION.
46	2527-9263180	PAVEMENT MARKINGS REMOVED REFER TO TAB 108-22 ON SHEETS C.15 AND C.16 FOR LOCATIONS.
47	2527-9263190	SYMBOLS AND LEGENDS REMOVED REFER TO TAB 108-29 ON SHEET C.16 FOR LOCATIONS.
48	2528-4983200	MONITORING WITH INCIDENT RESPONSE
49	2528-8400048	TEMPORARY BARRIER RAIL REFER TO TAB 108-33 ON SHEET C.7 FOR LOCATIONS. REFER TO STANDARD ROAD PLANS BA-401 AND TC-61 FOR ADDITIONAL DETAILS.
50	2528-8400157	TEMPORARY FLOODLIGHTING LUMINAIRE REFER TO TAB 108-27 ON SHEET C.5 FOR LOCATIONS. REFER TO STANDARD ROAD PLAN TC-61 FOR ADDITIONAL DETAILS.
51	2528-8445110	TRAFFIC CONTROL REFER TO 108-23A ON SHEET 3.1 FOR DETAILS. REFER TO STANDARD ROAD PLANS TC-1, TC-61, TC-402, TC-414, TC-420, TC-432 AND TC-433 FOR ADDITIONAL INFORMATION.
52	2533-4980005	MOBILIZATION
53	2548-0000200	MILLED SHOULDER RUMBLE STRIPS, PCC SURFACE REFER TO TAB 112-10 ON SHEET C.19 FOR LOCATIONS. REFER TO STANDARD ROAD PLAN PV-12 FOR DETAILS OF CONSTRUCTION.
54	2551-0000110	TEMPORARY CRASH CUSHION REFER TO TAB 108-30 ON SHEET C.8 FOR LOCATIONS. REFER TO STANDARD ROAD PLAN BA-500 AND TC-61 FOR ADDITIONAL DETAILS OF CONSTRUCTION.
55	2601-2634100	MULCHING ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED AT THE CONCLUSION OF EACH STAGE.
56	2601-2630352	SLOPE PROTECTION, WOOD EXCELSTOR MAT REFER TO TAB 108-22 ON SHEET C.9 FOR LOCATIONS. REFER TO STANDARD ROAD PLAN EC101 AND EC-103 FOR DETAILS OF CONSTRUCTION.
57	2601-2642100	STABILIZE CROP - SEED+FERTILIZE ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED AT THE CONCLUSION OF EACH STAGE.
58	2601-2643110	WATERING FOR SOO, SPECIAL DITCH CONTROL, OF SLOPE PROTECTION ESTIMATED AT 50 GALLONS PER SQUARE OF MAT.
59	2601-2643300	MOBILIZATIONS FOR WATERING ASSUME 3 MOBILIZATIONS FOR EACH OF TWO STAGES.
60	2602-0000010	SILT FENCE REFER TO TAB 100-17 ON SHEET C.9 FOR LOCATIONS. INCLUDES ESTIMATED LOCATIONS FOR PLACEMENT OF SILT FENCE TO ADDRESS EROSION TO BE ENCOUNTERED DURING CONSTRUCTION. VERIFY THE SPECIFIC LOCATIONS WITH THE ENGINEER PRIOR TO BEGINNING PLACEMENT. BID ITEM INCLUDES 25% ADDITIONAL QUANTITY FOR FIELD ADJUSTMENTS AND REPLACEMENTS.
61	2602-0000030	SILT FENCE FOR DITCH CHECKS REFER TO TAB 100-18 ON SHEET C.9 FOR LOCATIONS. INCLUDES ESTIMATED LOCATIONS FOR PLACEMENT OF SILT FENCE FOR DITCH CHECKS TO ADDRESS EROSION TO BE ENCOUNTERED DURING CONSTRUCTION. VERIFY THE SPECIFIC LOCATIONS WITH THE ENGINEER PRIOR TO BEGINNING PLACEMENT. BID ITEM INCLUDES 25% ADDITIONAL QUANTITY FOR FIELD ADJUSTMENTS AND REPLACEMENTS.
62	2602-0000050	SILT BASINS REFER TO TAB 100-14 ON SHEET C.9 FOR LOCATIONS. INCLUDES ESTIMATED LOCATIONS FOR PLACEMENT OF SILT BASINS TO ADDRESS EROSION TO BE ENCOUNTERED DURING CONSTRUCTION. VERIFY THE SPECIFIC LOCATIONS WITH THE ENGINEER PRIOR TO BEGINNING PLACEMENT. BID ITEM INCLUDES 100% ADDITIONAL QUANTITY FOR FIELD ADJUSTMENTS AND MAINTENANCE.
63	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS THIS ITEM IS INCLUDED FOR SILT FENCE AND SILT FENCE FOR DITCH CHECK REMOVAL REQUIRED FOR STAGING REASONS, REMOVAL TO ALLOW FOR REPLACEMENT (REPLACEMENT TO BE PAID SEPERATELY), OR FOR AREAS THAT HAVE ACHIEVED 70% PERMANENT GROWTH.
64	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK THIS ITEM IS INCLUDED FOR CLEAN-OUT AND REPAIR OF THE SILT FENCE AND SILT FENCE FOR DITCH CHECKS DURING THE GRADING PROJECT.
65	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.
66	2602-0000320	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 20 IN. DIA. TO BE USED AS DIRECTED BY THE ENGINEER OR AS RECOMMENDED BY THE CONTRACTOR.
67	2602-0010010	MOBILIZATIONS, EROSION CONTROL
68	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL
ALTERNATE AA OPTION 1		

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**ESTIMATE REFERENCE INFORMATION**

Item No.	Item Code	Description
69	2102-0425070	SPECIAL BACKFILL
70	2122-5190007	PAVED SHOULDER, P.C. CONCRETE, 7 IN.
71	2548-0000200	MILLED SHOULDER RUMBLE STRIPS, PCC SURFACE REFER TO TABS 112-9 ON SHEETS C.17 AND C.18 AND 112-10 ON SHEET C.19 FOR LOCATIONS. REFER TO STANDARD ROAD PLANS PV-12 AND PV-101 FOR DETAILS. REFER TO TYPICALS ON SHEET B.2. CONTRACTOR MAY RECYCLE EXISTING PAVEMENT TO USE AS SPECIAL BACKFILL IN ACCORDANCE WITH DOT MATERIAL REQUIREMENTS.
72	2102-0425070	ALTERNATE AA OPTION 2 SPECIAL BACKFILL
73	2122-5500080	PAVED SHOULDER, HOT MIX ASPHALT MIXTURE, 8 IN.
74	2548-0000100	MILLED SHOULDER RUMBLE STRIPS, HMA SURFACE
75	2548-0000110	ASPHALT EMULSION FOR PCC SEAL (SHOULDER RUMBLE STRIPS)
76	2303-6910000	HOT MIX ASPHALT PAVEMENT SAMPLES REFER TO TABS 112-9 ON SHEETS C.17 AND C.18 AND 112-10 ON SHEET C.19 FOR LOCATIONS. REFER TO STANDARD ROAD PLANS PV-12 AND PV-101 FOR DETAILS. REFER TO TYPICALS ON SHEET B.2. CONTRACTOR MAY RECYCLE EXISTING PAVEMENT TO USE AS SPECIAL BACKFILL IN ACCORDANCE WITH DOT MATERIAL REQUIREMENTS. PAY QUANTITY IS BASED ON THE UNDILUTED RATE OF ASPHALT EMULSION. TABULATION QUANTITY ON TAB 112-10 ON SHEET 19 IS BASED ON THE DILUTED APPLICATION RATE.
77	2526-8285000	ALTERNATE BB OPTION 1 CONSTRUCTION SURVEY
78	2301-9090100	ALTERNATE BB OPTION 2 PCC PAVING 3-D MACHINE CONTROL
79	2526-8285000	CONSTRUCTION SURVEY
80	2526-8286000	GPS MACHINE CONTROL GRADING
81	2555-0000010	NON-PARTICIPATING ITEMS DELIVER AND STOCKPILE SALVAGE MATERIALS REFER TO TAB 110-13 ON SHEET C.7 FOR ADDITIONAL INFORMATION.

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10-18-11

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100-17	TABULATION OF SILT FENCES	C.9
100-18	TABULATION OF SILT FENCES FOR DITCH CHECKS	C.9
100-1CA	ESTIMATED PROJECT QUANTITIES (UP TO A 5 DIVISION PROJECT)	C.1
100-1CB	ESTIMATED PROJECT QUANTITIES (UP TO A 5 DIVISION PROJECT)	C.2
100-1CB	ESTIMATED PROJECT QUANTITIES (UP TO A 5 DIVISION PROJECT)	C.2
100-1D	PROJECT DESCRIPTION	C.1
100-22	SPECIAL DITCH CONTROL AND SLOPE PROTECTION	C.9
100-24	TABULATION OF PAVEMENT	C.10
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100-4A	ESTIMATE REFERENCE INFORMATION	C.4
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**STANDARD ROAD PLANS**

105-4  
10-18-11

The following Standard Road Plans apply to construction work on this project.

Number	Date	Title
BA-200	10-18-11	Steel Beam Guardrail Components
BA-201	10-19-10	Steel Beam Guardrail Barrier Transition Section
BA-202	10-18-11	Steel Beam Guardrail Bolted End Anchor
BA-203	10-18-11	Steel Beam Guardrail W-Beam End Anchor
BA-205	10-18-11	Steel Beam Guardrail End Terminal
BA-250	10-18-11	Steel Beam Guardrail Installation at Concrete Barrier or Bridge End Post
BA-251	10-18-11	Steel Beam Guardrail Installation at Side Obstacle (Two-Way Protection)
BA-351	04-20-10	High Tension Cable Guardrail
BA-401	04-16-13	Temporary Barrier Rail (Precast Concrete)
BA-500	04-20-10	Temporary Crash Cushions Sand Barrel
EC-101	04-20-10	Wood Excelsior Mat for Ditch Protection
EC-103	04-20-10	Wood Excelsior Mat for Slope Protection
EC-201	04-20-10	Silt Fence
EC-204	10-16-12	Perimeter and Slope Sediment Control Devices
EW-301	04-19-11	Guardrail Grading
PW-110	04-16-13	Line Types
PM-111	10-16-12	Symbols and Legends
PV-12	04-17-12	Milled Shoulder Rumble Strips
PV-101	04-17-12	Joints
PV-102	04-16-13	PCC Curb Details
PV-500	04-16-13	Median Crossover (50' Median)
RF-2	10-18-11	Construction of Type "C" Concrete Adaptors for Pipe Culvert Connections
RF-3	10-18-11	Concrete Aprons
RF-14	04-16-13	Connected Pipe Joints
RF-19C	10-16-12	Subdrains (Longitudinal)
RF-19E	10-16-12	Outlets for Longitudinal, Transverse and Backslope Subdrains
RF-26	10-16-12	Pipe Apron Guard
RF-27	10-19-10	Beveled Pipe and Guard
RF-30A	10-19-10	Culvert (Bedding and Backfill)
RF-30C	04-16-13	Pipe Culvert (Installation Details)
RF-31	03-28-95	Depth of Cover Tables for Concrete Pipe
RF-40	04-16-13	Rock Flume for Bridge End Drain
RF-45	10-19-10	Stotted Drain for Median Crossovers
RK-20	04-16-13	Double Reinforced 12" Approach
RL-2A	10-18-05	Details of Embankment Subgrade Treatment, Moisture Density Control & Special Compaction
RL-9	04-20-10	Temporary Erosion Control Measures
RL-12	04-20-10	Special Shaping for High Tension Cable Guardrail at Median Obstacles
RM-4B	10-16-12	Temporary Floodlighting
SI-171	10-20-09	Reference Posts
SI-172	10-18-11	Delineators
SI-211	10-19-10	Object Marker and Delineator Placement with Guardrail
TC-1	04-16-13	Work NOT Affecting Traffic (Two-Lane or Multi-Lane)
TC-61	10-16-12	Two-Lane, Two-Way Operation
TC-402	04-16-13	Shoulder Closure (Multi-Lane)
TC-418	10-16-12	Lane Closure on Divided Highway
TC-420	04-17-12	Lane Closure at Ramps
TC-432	04-16-13	Shoulder Rumble Strip Operations
TC-433	04-16-13	Pavement Marking Operations

**INCIDENT MANAGEMENT**

254-1  
18-02-01

An incident management plan, provided by the District Office, will be discussed at the pre-construction conference.

**TEMPORARY FLOODLIGHTING LUMINAIRES**

108-27  
10-16-12

No.	Location Station	Offset	Number Lumin.	Remarks
1	59+39.7	53' LT	1	CROSSOVER STAGE 1B
2	211+69.4	53' LT	1	CROSSOVER STAGE 1B
3	59+39.7	53' RT	1	CROSSOVER STAGE 2B
4	211+69.4	53' RT	1	CROSSOVER STAGE 2B

**UTILITIES**

**(NOT A POINT 25 PROJECT)**

262-6  
10-18-05

This is NOT a POINT 25 project and is not subject to the provisions of IAC 761-115.25.

**INCIDENTAL ITEMS**

100-26  
03-01-00

Special or unique items where method of measurement / basis of payment is not indicated in the specifications or other contract documents.

No.	Incidental Item	Quantity	Incidental To	Remarks
	PIPE APRON GUARD	5	2416-0100024	APRONS, CONCRETE, 24 IN. DIA.
	ADAPTORS - RF-2	5	2416-1180024	CULVERT, CONCRETE RDMV PIPE, 24 IN. DIA.
		1	2416-1180048	CULVERT, CONCRETE RDMV PIPE, 48 IN. DIA.
	PIPE JOINT CONNECTORS	5	2416-0100024	APRONS, CONCRETE, 24 IN. DIA.
		1	2416-0100048	APRONS, CONCRETE, 48 IN. DIA.

**EXISTING PAVEMENT**

No.	Location					Year	Type	Project Number	Surface		Base		Subbase		Removal		Coarse Aggregate			Reinforcement	Remarks
	County	Route	Dir. of Travel	Begin Milepost	End Milepost				Type	Depth	Type	Depth	Type	Depth	Type	Depth	Source	Type	Durability Class	Type	
	POTTAWATTAMIE	I-29	SB	43.63	46.83	1989		IR-29-2(33)44	ACC	4							SHAFFTON	DOLOMITE			
	POTTAWATTAMIE	I-29	SB	43.63	46.83	1989		I-IG-29-2(9)43--04-65	PCC	8	ATB		4				WEEPING WATER	C. LST.	I		CRC
	POTTAWATTAMIE	I-29	SB	46.83	48.03	2005		MP-29-4(703)47--76-78	AAC	2											
	POTTAWATTAMIE	I-29	SB	46.83	48.03	1985		IR-29-1(29)25	AAC	1.5	1.5						DELL RAPIDS	QUARTZ			
	POTTAWATTAMIE	I-29	SD	46.83	48.03	1969		I-IG-29-2(7)49--04-78	PCC	8	ATB		4				WEEPING WATER	C. LST.	I		CRC
	POTTAWATTAMIE	I-29	NB	43.63	44.9	2009		DPX-029-2(65)38--02-65	PCC	9	HMA		1		SCR	4					WHITETOPPING
	POTTAWATTAMIE	I-29	NB	43.63	44.9	1989		IR-29-2(33)44	AAC	4							SHAFFTON	DOLOMITE			
	POTTAWATTAMIE	I-29	NB	43.63	44.9	1969		I-IG-29-2(9)43--04-65	PCC	8	ATB		4				WEEPING WATER	C. LST.	I		CRC
	POTTAWATTAMIE	I-29	NB	44.9	46.83	1989		IR-29-2(33)44	ACC	4							SHAFFTON	DOLOMITE			
	POTTAWATTAMIE	I-29	NB	44.9	46.83	1969		I-IG-29-2(9)43--04-65	PCC	8	ATB		4				WEEPING WATER	C. LST.	I		CRC
	POTTAWATTAMIE	I-29	NB	46.83	48.03	1985		IR-29-1(29)25	ACC	4							SHAFFTON	DOLOMITE			
	POTTAWATTAMIE	I-29	NB	46.83	48.03	1969		I-IG-29-2(7)43--04-65	PCC	8	ATB		4				WEEPING WATER	C. LST.	I		CRC

**SHRINKAGE DATA**

Material	%	Remarks
Class 30 Topsoil	30%	
	40%	

**LONGITUDINAL GROOVING**

Location	Total	Remarks
	SY	
78+61.00	277.0	Pony Cr. Br. SB S. Approach
78+61.00	279.4	Pony Cr. Br. SB N. Approach
78+61.00	279.0	Pony Cr. Br. NB S. Approach
78+61.00	277.0	Pony Cr. Br. NB N. Approach

**PAVEMENT SMOOTHNESS + PCC TEXTURE**

Road Identification	Begin Station	End Station	Proposed Posted Speed			Remarks
			35 or less	40 - 45	over 45	
I-29 Southbound	60+20.00	77+83.65			X	MAINLINE
I-29 Southbound	60+20.00	77+43.48			X	OUTSIDE SHOULDER
I-29 Southbound	79+58.78	166+59.85			X	MAINLINE
I-29 Southbound	79+98.88	167+07.36			X	OUTSIDE SHOULDER
I-29 Southbound	170+60.21	176+65.00			X	MAINLINE
I-29 Southbound	170+12.50	176+65.00			X	OUTSIDE SHOULDER
I-29 Northbound	60+20.00	77+82.9			X	MAINLINE
I-29 Northbound	60+20.00	77+43.40			X	OUTSIDE SHOULDER
I-29 Northbound	79+59.40	165+84.95			X	MAINLINE
I-29 Northbound	79+98.90	166+30.08			X	OUTSIDE SHOULDER
I-29 Northbound	169+84.62	176+65.00			X	MAINLINE
I-29 Northbound	169+34.56	176+65.00			X	OUTSIDE SHOULDER

**SAFETY CLOSURES**

Refer to Section 2518 of the Standard Specifications

Station	Closure Type		Remarks
	Road Ovt.	Hazard Ovt.	
STAGE 1B			
60+19.20	1		SB CONSTRUCTION
210+85.10	1		SB CONSTRUCTION
STAGE 2B			
60+13.00	1		NB CONSTRUCTION
210+85.10	1		NB CONSTRUCTION

**TEMPORARY BARRIER RAIL**

Refer to BA-400 and BA-401

\* Not a bid item. Anchorage requirements are based on TBR locations shown in the plans. TBR alignments that vary from what is shown in the plans may result in additional TBR sections requiring anchorage.

No.	Station to Station	Length	(Select One)		Anchored*	Remarks
			Steel BA-400	Concrete BA-401		
1	58+60.90	60+30.30	180.0		X	CROSSOVER STAGE 1B
2	210+71.90	212+49.30	180.0		X	CROSSOVER STAGE 2B

**DELIVERY AND STOCKPILING**

Item Description	Quantity	Units	Delivery Location	Contact Name & Number	Remarks
GUARDRAIL, POSTS AND HARDWARE	550	LF	CB MAINT. GARAGE	DICK MATTOX - 712-366-0332	SB STA. 162+16 TO STA. 167+66
GUARDRAIL, POSTS AND HARDWARE	250	LF	CB MAINT. GARAGE	DICK MATTOX - 712-366-0332	SB STA. 170+82 TO STA. 172+46
GUARDRAIL, POSTS AND HARDWARE	235	LF	CB MAINT. GARAGE	DICK MATTOX - 712-366-0332	SB STA. 170+05 TO STA. 172+24
GUARDRAIL, POSTS AND HARDWARE	513	LF	CB MAINT. GARAGE	DICK MATTOX - 712-366-0332	NB STA. 161+34 TO STA. 167+47
GUARDRAIL, POSTS AND HARDWARE	238	LF	CB MAINT. GARAGE	DICK MATTOX - 712-366-0332	NB STA. 164+83 TO STA. 166+39

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**CRASH CUSHIONS**

\* Bid Item  
 ① Lane(s) to which the installation is adjacent.  
 ② Complete this section when using the Temporary Crash Cushion bid item and Earthwork is needed for Sand Barrel placement. Refer to BA-506

No.	Direction of Traffic	Location Station	Side	Crash Cushion (Select One)*					Sand Barrel Details ②					Earthwork*		Spare Parts Kit (Select One)*		Obstacle Description	Remarks		
				Obstacle Width	Temporary	Temporary Reductive	Temporary Severe Use	Permanent	Permanent Severe Use	V	W	X	Y	Z	Excavation Class 1B	Embankment In Place	Permanent			Permanent Severe Use	
																					Length
1	SB	60+38.38	LT	1.88	X							25.28									STAGE 1B
2	SB	169+34.60	RT	1.90	X							3.80									STAGE 1B
3	NB	77+83.70	RT	1.90	X							4.10									STAGE 2B
4	NB	167+26.10	RT	1.90	X							4.00									STAGE 2B
5	NB	210+71.90	RT	1.90	X							25.40									STAGE 2B

**MEDIAN CROSSOVERS**

Refer to PV-500 Series.

\* Not a bid item

Road Ident.	Location Station	Standard Road Plan No.	Detour Pavement SY	Special Backfill TOH	Granular Shoulder TOH	Embankment in Place CY	Class 10 Excavation CY	Class 13 Excavation CY	Removal of Pavement SY	Saw Cut* LF	15" Unclassified Roadway Pipe LF	36" CMP Slotted Drain/ 6" Grate LF	Beveled Pipe and Guard No.	Remarks
1-29 SB	60+25.40	PV-500	125.5	0.0	0.0				125.5					REM. 3' WIDTH OF EX. X-OVER TO ACCOMMODATE PAVING & REPLACE
1-29 NB	60+25.00	PV-500	118.1	0.0	0.0				118.1					REM. 3' WIDTH OF EX. X-OVER TO ACCOMMODATE PAVING & REPLACE
1-29	210+84.40	PV-500	2695.0	1265.0	215.0	---	---	685.0	1098.5	24.0	268.0	116.0	2	

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**REMOVAL OF PAVEMENT**

Refer to Tabulation 102-5

\* Not a Bid Item

Begin Station	End Station	Side	Pavement Type	Area	Saw Cut*		Remarks
					SY	LF	
60+20.00	77+83.50	Both	HMA/PCC	7837.8	294.6		SB ML & SHOULDERS; REFER TO TAB 112-8 FOR ADD. REM.
79+58.75	161+99.40	Both	HMA/PCC	36625.1	40.0		SB ML & SHOULDERS
161+99.40	166+59.90	Both	HMA/PCC	2338.3	24.0		SB ML & SHOULDERS
166+60.10	167+07.40	Rt.	HMA/PCC	74.1	58.0		SB SHOULDER
166+59.70	167+07.70	Lt.	HMA/PCC	30.4	54.0		SB SHOULDER
170+32.50	170+31.60	Rt.	HMA/PCC	23.1	29.9		SB SHOULDER
170+31.60	170+59.60	Rt.	HMA/PCC	37.6	28.1		SB SHOULDER
169+93.80	170+58.70	Lt.	HMA/PCC	51.9	72.7		SB SHOULDER
170+59.60	172+44.20	Both	HMA/PCC	1007.1	24.0		SB ML & SHOULDERS
172+44.20	176+65.00	Both	HMA/PCC	1870.2	41.2		SB ML & SHOULDERS
60+20.00	77+13.90	Both	HMA/PCC	7520.4	287.9		NB ML & SHOULDERS; REFER TO TAB 112-8 FOR ADD. REM.
77+13.90	77+83.40	Both	HMA/PCC	310.4	40.2		NB ML & SHOULDERS
79+50.70	161+11.40	Both	HMA/PCC	30234.2	40.0		NB ML & SHOULDERS
161+11.40	165+05.00	Both	HMA/PCC	2368.0	24.0		NB ML & SHOULDERS
165+05.00	166+30.20	Lt.	HMA/PCC	37.7	52.0		NB SHOULDER
165+05.00	166+30.20	Rt.	HMA/PCC	61.3	56.2		NB SHOULDER
169+34.50	169+84.00	Lt.	HMA/PCC	43.0	56.3		NB SHOULDER
169+34.50	169+84.00	Rt.	HMA/PCC	65.4	61.1		NB SHOULDER
169+84.00	176+65.00	Both	HMA/PCC	3023.1	66.0		NB ML & SHOULDERS



MILLED RUMBLE STRIPS

See PV-12 and PV-13.

\* Calculated at 18" width for Shoulder.

Road Identification	Location		Length		Type (Centerline, Rt or Lt Shoulder)	Fog Seal* (Milled Rumble Strip) Shoulder GAL	Effective Shoulder Width			Remarks
	Station to Station	Station to Station	PCC	HMA			PCC Paved	HMA Paved	Granular/ Earth	
			STA	STA						
I-29 SB - OUTSIDE SHOULDER	60+20.00	60+48.00	0.20		Left Shoulder	0.0				
I-29 SB - OUTSIDE SHOULDER	60+48.00	77+23.50	16.84		Left Shoulder	0.0				
I-29 SB - OUTSIDE SHOULDER	80+18.70	167+06.30	86.83		Left Shoulder	0.0				
I-29 SB - OUTSIDE SHOULDER	167+06.30	176+65.00	9.59		Left Shoulder	0.0				
I-29 NB - OUTSIDE SHOULDER	60+20.00	60+48.00	0.20		Right Shoulder	0.0				
I-29 NB - OUTSIDE SHOULDER	60+48.00	77+23.50	16.83		Right Shoulder	0.0				
I-29 NB - OUTSIDE SHOULDER	80+18.80	165+07.10	86.60		Right Shoulder	0.0				
I-29 NB - OUTSIDE SHOULDER	169+46.30	176+65.00	7.19		Right Shoulder	0.0				
I-29 SB - INSIDE SHOULDER	60+20.00	77+43.50	17.24	17.24	Right Shoulder	37.3				
I-29 SB - INSIDE SHOULDER	79+98.90	166+65.90	86.67	86.67	Right Shoulder	187.8				
I-29 SB - INSIDE SHOULDER	170+15.10	176+65.00	6.50		Right Shoulder	0.0				
I-29 NB - INSIDE SHOULDER	60+20.00	77+43.50	17.24	17.24	Left Shoulder	37.3				
I-29 NB - INSIDE SHOULDER	79+98.90	166+27.30	86.28	86.28	Left Shoulder	186.9				
I-29 NB - INSIDE SHOULDER	169+76.40	176+65.00	6.89		Left Shoulder	0.0				

GRADING FOR GUARDRAIL INSTALLATIONS

Refer to EM-301

① Lane(s) to which the installation is adjacent.

Direction of Traffic	Location		Foreslope at Guardrail	Dimensions (Feet)								Earthwork		Remarks	
	Station	Side		X1	Y1	X2	Y2	X3	Y3	X4	Y4	Z	Excavation Class 10 CY		Embankment In Place CY
SB	79+62.97	RT	4:1	38.0	5.0	87.7	10.0	175.2	10.0	225.4	12.0	65.0	Incl. in EW		
SB	79+62.97	LT	6:1	38.0	9.0	62.9	11.5	237.9	11.5	288.0	14.0	72.0	Incl. in EW		
SB	107+21.46	RT	4:1	268.8	10.0	-	-	-	-	318.9	12.0	65.0	Incl. in EW	UNDER OVERPASS (PIER)	
SB	170+06.48	RT	4:1	52.4	6.0	114.9	6.0	164.4	11.0	214.6	13.0	69.0	Incl. in EW		
SB	169+66.05	LT	6:1	64.8	8.5	127.3	8.5	164.6	12.3	214.8	15.0	76.0	Incl. in EW		
NB	77+76.00	RT	4:1	38.0	5.0	87.8	10.0	175.3	10.0	225.4	13.0	68.0	Incl. in EW		
NB	77+76.00	LT	6:1	38.0	9.0	62.9	5.5	225.4	5.5	275.6	8.0	58.0	Incl. in EW		
NB	104+93.02	RT	4:1	256.3	10.0	-	-	-	-	306.4	13.0	69.0	Incl. in EW	UNDER OVERPASS (PIER)	
NB	166+83.12	LT	6:1	247.0	5.0	-	-	-	-	297.2	6.0	43.0	Incl. in EW		
NB	166+36.0	RT	4:1	27.5	5.0	64.8	7.0	452.3	9.0	582.5	11.0	61.0	Incl. in EW		

Page 11 of 13

### ESTIMATED BRIDGE REPAIR QUANTITIES

ITEM NO.	ITEM CODE	ITEM	UNIT	TOTAL	AS BUILT QUANTITY
1	2401-6745636	REMOVAL OF EXISTING HANDRAIL AND END POSTS	LS	1	
2	2414-6431100	RETROFIT CONCRETE BARRIER RAILING	LF	380	
3	2499-0800000	PAVING NOTCH REPLACEMENT	LF	80	

NOTE: THE ROADWAY WILL BE CLOSED TO TRAFFIC. REFER TO THE TRAFFIC CONTROL PLAN ON THE ROAD PLAN IN THESE PLANS.

### GENERAL NOTES:

THIS DESIGN IS FOR REPAIRS TO THE EXISTING 172'-2 X 40'-0 PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGE WITH A 0° SKEW ON I-29 OVER PONY CREEK. COPIES OF ORIGINAL DESIGN PLANS WILL BE MADE AVAILABLE TO THE CONTRACTOR. CONTACT THE OFFICE OF CONTRACTS - HIGHWAY DIVISION - IOWA D.O.T. - AMES.

THE REPAIRS SHALL CONSIST OF REPLACING THE PAVING NOTCHES AT BOTH ENDS OF THE BRIDGE AND REMOVING THE EXISTING RAILING AND REPLACING IT WITH NEW CAST-IN-PLACE CONCRETE BARRIER RAILING. CONSTRUCTION SHALL BE DONE IN STAGES WITH AT LEAST ONE LANE OF TRAFFIC MAINTAINED AT ALL TIMES IN ACCORDANCE WITH "TRAFFIC CONTROL PLAN" NOTE.

MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR IS TO BE 2" UNLESS OTHERWISE NOTED OR SHOWN. THE PERMISSIBLE CONSTRUCTION JOINTS ARE TO BE PLACED BETWEEN VERTICAL BARS AT A MINIMUM SPACING OF 20 FEET. CONSTRUCTION JOINT CONTACT SURFACES ARE TO BE COATED WITH AN APPROVED BOND BREAKER.

ALL DIMENSIONS AND DETAILS SHOWN IN THESE PLANS PERTINENT TO NEW CONSTRUCTION IN RELATION TO EXISTING PORTIONS OF THE STRUCTURE SHALL BE VERIFIED IN THE FIELD BY THE BRIDGE CONTRACTOR BEFORE STARTING CONSTRUCTION.

FAINT LINES ON PLANS INDICATE THE EXISTING STRUCTURE. THESE BRIDGE PLANS LABEL ALL REINFORCING STEEL WITH ENGLISH NOTATION (50# IS 5/8 INCH DIAMETER BAR). ENGLISH REINFORCING STEEL RECEIVED IN THE FIELD MAY DISPLAY THE FOLLOWING "BAR DESIGNATION". THE "BAR DESIGNATION" IS THE STAMPED IMPRESSION ON THE REINFORCING BARS, AND IS EQUIVALENT TO THE BAR DIAMETER IN MILLIMETERS.

ENGLISH SIZE	3	4	5	6	7	8	9	10	11
BAR DESIGNATION	10	13	16	19	22	25	29	32	36

COST OF JOINT SEALER AND BOND BREAKER SHALL BE CONSIDERED INCIDENTAL TO OTHER CONSTRUCTION.

THE RETROFIT BARRIER RAIL IS TO BE BID ON A LINEAL FOOT BASIS MEASURED FROM END TO END OF RAIL. THE NUMBER OF LINEAL FEET OF RETROFIT BARRIER RAIL INSTALLED WILL BE PAID FOR AT THE CONTRACT PRICE PER LINEAL FOOT BASED ON PLAN QUANTITIES. PRICE BID FOR RETROFIT CONCRETE BARRIER RAILING SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIAL (INCLUDING REIN. STEEL AND 1" PLASTIC CONDUIT) PLUS ALL OF THE EQUIPMENT AND LABOR REQUIRED TO ERECT THE RAIL IN ACCORDANCE WITH THESE PLANS AND CURRENT SPECIFICATIONS.

ALL RETROFIT BARRIER RAIL CONCRETE IS TO BE EITHER CLASS BR MIX OR CLASS C MIX. CLASS BR CONCRETE SHALL BE USED FOR THE SLIP FORMING METHOD. CLASS C CONCRETE SHALL BE USED FOR THE CAST-IN-PLACE METHOD. THE PRICE BID FOR THE CAST-IN-PLACE METHOD SHALL INCLUDE THE FORMWORK.

ALL REINFORCING STEEL IS TO BE GRADE 60 AND EPOXY COATED. THE JOINT SEALER SHALL BE LIGHT GRAY MONGSAG LATEX CAULKING SEALER MARKETED FOR OUTDOOR USE. NO TESTING OR CERTIFICATION IS REQUIRED. THE PRICE BID FOR "REMOVAL OF EXISTING HANDRAIL AND END POSTS" SHALL INCLUDE ALL COSTS ASSOCIATED WITH DISMANTLING THE EXISTING HANDRAIL (APPROX. 352 LF AND 42 POSTS). THE RAILS AND POSTS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE SITE BY THE CONTRACTOR. THE BID ITEM SHALL ALSO INCLUDE ALL COSTS ASSOCIATED WITH THE REMOVAL OF THE EXISTING CONCRETE END POSTS AND THE CUTTING OFF AND PAINTING OF THE EXISTING RAIL POST ANCHOR BOLTS IF REQUIRED.

ANY REMOVALS REQUIRED SHALL BE IN ACCORDANCE WITH SECTION 2401, OF THE STANDARD SPECIFICATIONS. ANY DAMAGE TO OTHER PORTIONS OF THE EXISTING STRUCTURE NOT NOTED FOR REMOVAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE STATE.

EXISTING BRIDGE RAIL IS NOT TO BE REMOVED UNTIL AUTHORIZED BY THE ENGINEER. DIMENSIONS SHOWN ON THESE PLANS ARE BASED ON DESIGN PLANS (ORIGINAL DESIGN NO. 1466). UTILITY COMPANIES WHOSE FACILITIES ARE SHOWN ON THESE PLANS OR KNOWN TO BE WITHIN THE CONSTRUCTION LIMITS SHALL BE NOTIFIED BY THE BRIDGE CONTRACTOR OF THE STARTING DATE.

### ESTIMATE REFERENCE INFORMATION

ITEM NO.	ITEM CODE	DESCRIPTION
1	2401-6745636	REMOVAL OF EXISTING HANDRAIL AND END POSTS
2	2414-6431100	RETROFIT CONCRETE BARRIER RAILING INCLUDES FURNISHING AND INSTALLING 1" DIAMETER PLASTIC CONDUIT. INCLUDES 24.5 CY OF CLASS C OR CLASS BR STRUCTURAL CONCRETE AND 4,151 LBS OF GRADE 60 EPOXY COATED REINFORCING STEEL.  IF PLACEMENT OF CONCRETE IS DONE BY THE SLIPFORMING METHOD, CLASS BR CONCRETE IS REQUIRED. CAST-IN-PLACE BARRIER RAILS SHALL USE CLASS C MIX. PRICE BID FOR THIS ITEM SHALL INCLUDE THE COST OF CAST-IN-PLACE FORMS IF REQUIRED FOR PLACEMENT OF THE CONCRETE.
3	2499-0800000	PAVING NOTCH REPLACEMENT INCLUDES 5.6 CY OF STRUCTURAL CONCRETE CLASS C, 1,280 LBS OF EPOXY-COATED REINFORCING STEEL, EXCAVATION, REMOVING AND DISPOSING OF EXISTING PAVING NOTCH AND CONCRETE REMOVED TO FORM THE SHEAR KEYWAYS, DRILLING HOLES FOR THE DOWEL BARS, AND POLYMER GROUT MATERIAL.

### STRUCTURAL DESIGN

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.



Signature: *Stephen W. Moffitt* Date: 12/28/12  
Printed or Typed Name: Stephen W. Moffitt

My license renewal date is December 31, 2013

Pages or sheets covered by this seal: SHEETS V.1 THRU V.3

### BARRIER RAIL DOWEL SETTING NOTE:

THE 6c1 AND 6c2 BARS SHALL BE SET AS DOWELS IN DRILLED HOLES. HOLES ARE TO BE 10" DEEP. THE DOWELS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. EITHER OF THE FOLLOWING SYSTEMS MAY BE USED AS A BONDING AGENT FOR VERTICAL DOWELS, BUT ONLY SYSTEM "A" MAY BE USED FOR HORIZONTAL DOWELS:

- POLYMER GROUT SYSTEM SHALL BE IN ACCORDANCE WITH ARTICLE 2301.03, E, OF THE STANDARD SPECIFICATIONS.
- HYDRAULIC CEMENT GROUT SYSTEMS, DRILLED HOLES ARE TO BE 2 1/2 TIMES THE DOWEL DIAMETER AND ARE TO BE BLOWN CLEAN WITH COMPRESSED AIR IMMEDIATELY PRIOR TO PLACING GROUT. THE HYDRAULIC CEMENT GROUT SHALL BE ONE OF THOSE APPROVED IN MATERIALS 1.4.49.13 AND SHALL BE USED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

NOTE A: SEE SECTION A-A ON BARRIER RAIL LAYOUT SHEET V.2. ON EACH RAIL OF BRIDGE, DIMENSION "X" SHALL BE A MINIMUM OF 1" AND A MAXIMUM OF 3", BUT MUST BE CONSTANT FOR FULL LENGTH OF BRIDGE, HOWEVER APPROXIMATELY 10 LINEAR FEET AT EITHER END OF STANDARD RAIL SECTION SHALL BE TRANSITIONED TO 2" AT END SECTION AS SHOWN.

### SPECIFICATIONS:

DESIGN: AASHTO SERIES OF 2002.  
CONSTRUCTION: IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, SERIES 2012, PLUS APPLICABLE GENERAL, SUPPLEMENTAL, DEVELOPMENTAL SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS SHALL APPLY TO CONSTRUCTION WORK ON THIS PROJECT.

### DESIGN STRESSES:

DESIGN STRESSES FOR THE FOLLOWING MATERIALS ARE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SERIES OF 2002. REINFORCING STEEL IN ACCORDANCE WITH SECTION 6, GRADE 60. CONCRETE IN ACCORDANCE WITH SECTION 8, f'c = 4.0 KSI.

### CONCRETE PLACEMENT SUMMARY

SECTION	TOTAL
STANDARD SECTION 350'-4 AT 0.06 CU. YDS. PER LIN. FT	21.0
END SECTIONS 4 AT 0.87 CU. YDS. PER SECTION	3.5
<b>TOTAL (CU. YDS.)</b>	<b>24.5</b>

REVISED 4/4/13; REVISED SECTION AND MAINTENANCE NUMBER

### LOCATION

I-29 OVER PONY CREEK  
T 74 N R 25 W  
SECTION 30  
LEWIS TOWNSHIP  
LATITUDE: 41.8180603  
LONGITUDE: -95.82368618  
POTTAWATTAMIE COUNTY  
MAINTENANCE NO. 7845-0229-0286  
PHWA NO. 044560 (286) 7845.1029 (581)

### DESIGN HISTORY AT THIS SITE

DES. NO.	TYPE OF WORK
1466	ORIGINAL DESIGN
778	DECK OVERLAY
813	PAVING NOTCH AND RETROFIT RAIL

DESIGN FOR REPAIRS TO A 0° SKEW  
172'-2 X 40'-0 PRETENSIONED  
PRESTRESSED CONCRETE BEAM BRIDGE  
51'-7 END SPANS 89'-0 INTERIOR SPAN  
QUANTITIES AND GENERAL NOTES  
STA. 78+61 JANUARY, 2013

### POTTAWATTAMIE COUNTY

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION  
DESIGN SHEET NO. 1 OF 3 FILE NO. 30836 DESIGN NO. 813

### ESTIMATED BRIDGE REPAIR QUANTITIES

ITEM NO.	ITEM CODE	ITEM	UNIT	TOTAL	AS BUILT QUANTITY
1	2401-6745636	REMOVAL OF EXISTING HANDRAIL AND END POSTS	LS	1	
2	2414-6431100	RETROFIT CONCRETE BARRIER RAILING	LF	380	
3	2499-0800000	PAVING NOTCH REPLACEMENT	LF	80	

NOTE: THE ROADWAY WILL BE CLOSED TO THRU TRAFFIC, REFER TO THE TRAFFIC CONTROL PLAN ON THE ROAD PLAN IN THESE PLANS.

### ESTIMATE REFERENCE INFORMATION

ITEM NO.	ITEM CODE	DESCRIPTION
1	2401-6745636	REMOVAL OF EXISTING HANDRAIL AND END POSTS
2	2414-6431100	RETROFIT CONCRETE BARRIER RAILING INCLUDES FURNISHING AND INSTALLING 1" DIAMETER PLASTIC CONDUIT. INCLUDES 24.5 CY OF CLASS C OR CLASS BR STRUCTURAL CONCRETE AND 4,151 LBS OF GRADE 60 EPOXY COATED REINFORCING STEEL.  IF PLACEMENT OF CONCRETE IS DONE BY THE SLIPFORMING METHOD, CLASS BR CONCRETE IS REQUIRED. CAST-IN-PLACE BARRIER RAILS SHALL USE CLASS C MIX. PRICE BID FOR THIS ITEM SHALL INCLUDE THE COST OF CAST-IN-PLACE FORMS IF REQUIRED FOR PLACEMENT OF THE CONCRETE.
3	2499-0800000	PAVING NOTCH REPLACEMENT INCLUDES 5.6 CY OF STRUCTURAL CONCRETE CLASS C, 1,280 LBS OF EPOXY-COATED REINFORCING STEEL, EXCAVATION, REMOVING AND DISPOSING OF EXISTING PAVING NOTCH AND CONCRETE REMOVED TO FORM THE SHEAR KEYWAYS, DRILLING HOLES FOR THE DOWEL BARS, AND POLYMER GROUT MATERIAL.

### STRUCTURAL DESIGN

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.



Signature: *Stephen W. Moffitt* Date: 12/28/12

Printed or Typed Name: Stephen W. Moffitt

My license renewal date is December 31, 2013

Pages or sheets covered by this seal: SHEETS V.4 THRU V.6

### BARRIER RAIL DOWEL SETTING NOTE :

THE Gc1 AND Gc2 BARS SHALL BE SET AS DOWELS IN DRILLED HOLES. HOLES ARE TO BE 10" DEEP. THE DOWELS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. EITHER OF THE FOLLOWING SYSTEMS MAY BE USED AS A BONDING AGENT FOR VERTICAL DOWELS, BUT ONLY SYSTEM "A" MAY BE USED FOR HORIZONTAL DOWELS:

- POLYMER GROUT SYSTEM SHALL BE IN ACCORDANCE WITH ARTICLE 2301.03, E, OF THE STANDARD SPECIFICATIONS.
- HYDRAULIC CEMENT GROUT SYSTEMS. DRILLED HOLES ARE TO BE 2 1/2 TIMES THE DOWEL DIAMETER AND ARE TO BE BLOWN CLEAN WITH COMPRESSED AIR IMMEDIATELY PRIOR TO PLACING GROUT. THE HYDRAULIC CEMENT GROUT SHALL BE ONE OF THOSE APPROVED IN MATERIALS 1.44.491.13 AND SHALL BE USED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

### NOTE A2: SEE SECTION A-A ON BARRIER RAIL LAYOUT SHEET V.2.

ON EACH RAIL OF BRIDGE, DIMENSION "X" SHALL BE A MINIMUM OF 1" AND A MAXIMUM OF 3", BUT MUST BE CONSTANT FOR FULL LENGTH OF BRIDGE, HOWEVER APPROXIMATELY 10 LINEAR FEET AT EITHER END OF STANDARD RAIL SECTION SHALL BE TRANSITIONED TO 2" AT END SECTION AS SHOWN.

### SPECIFICATIONS:

DESIGN: AASHTO SERIES OF 2002.  
CONSTRUCTION: IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, SERIES 2012, PLUS APPLICABLE GENERAL SUPPLEMENTAL SPECIFICATIONS, DEVELOPMENTAL SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS SHALL APPLY TO CONSTRUCTION WORK ON THIS PROJECT.

### DESIGN STRESSES:

DESIGN STRESSES FOR THE FOLLOWING MATERIALS ARE IN ACCORDANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SERIES OF 2002. REINFORCING STEEL IN ACCORDANCE WITH SECTION 8, GRADE 60. CONCRETE IN ACCORDANCE WITH SECTION 8, f'c = 4.0 KSI.

### CONCRETE PLACEMENT SUMMARY

SECTION	TOTAL
STANDARD SECTION 350'-4 AT 0.06 CU. YDS. PER LIN. FT	21.0
END SECTIONS 4 AT 0.87 CU. YDS. PER SECTION	3.5
TOTAL (CU. YDS.)	24.5

### GENERAL NOTES:

THIS DESIGN IS FOR REPAIRS TO THE EXISTING 172'-2 X 40'-0 PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGE WITH A 0° SKEW ON I-29 OVER PONY CREEK. COPIES OF ORIGINAL DESIGN PLANS WILL BE MADE AVAILABLE TO THE CONTRACTOR. CONTACT THE OFFICE OF CONTRACTS - HIGHWAY DIVISION - IOWA D.O.T. - AMES.

THE REPAIRS SHALL CONSIST OF REPLACING THE PAVING NOTCHES AT BOTH ENDS OF THE BRIDGE AND REMOVING THE EXISTING RAILING AND REPLACING IT WITH NEW CAST-IN-PLACE CONCRETE BARRIER RAILING. CONSTRUCTION SHALL BE DONE IN STAGES WITH AT LEAST ONE LANE OF TRAFFIC MAINTAINED AT ALL TIMES IN ACCORDANCE WITH "TRAFFIC CONTROL PLAN" NOTE.

MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR IS TO BE 2" UNLESS OTHERWISE NOTED OR SHOWN. THE PERMISSIBLE CONSTRUCTION JOINTS ARE TO BE PLACED BETWEEN VERTICAL BARS AT A MINIMUM SPACING OF 20 FEET. CONSTRUCTION JOINT CONTACT SURFACES ARE TO BE COATED WITH AN APPROVED BOND BREAKER.

ALL DIMENSIONS AND DETAILS SHOWN IN THESE PLANS PERTINENT TO NEW CONSTRUCTION IN RELATION TO EXISTING PORTIONS OF THE STRUCTURE SHALL BE VERIFIED IN THE FIELD BY THE BRIDGE CONTRACTOR BEFORE STARTING CONSTRUCTION.

FAINT LINES ON PLANS INDICATE THE EXISTING STRUCTURE. THESE BRIDGE PLANS LABEL ALL REINFORCING STEEL WITH ENGLISH NOTATION (50# IS 5/8 INCH DIAMETER BAR). ENGLISH REINFORCING STEEL RECEIVED IN THE FIELD MAY DISPLAY THE FOLLOWING "BAR DESIGNATION". THE "BAR DESIGNATION" IS THE STAMPED IMPRESSION ON THE REINFORCING BARS, AND IS EQUIVALENT TO THE BAR DIAMETER IN MILLIMETERS.

ENGLISH SIZE	3	4	5	6	7	8	9	10	11
BAR DESIGNATION	10	13	16	19	22	25	29	32	36

COST OF JOINT SEALER AND BOND BREAKER SHALL BE CONSIDERED INCIDENTAL TO OTHER CONSTRUCTION.

THE RETROFIT BARRIER RAIL IS TO BE BID ON A LINEAL FOOT BASIS MEASURED FROM END TO END OF RAIL. THE NUMBER OF LINEAL FEET OF RETROFIT BARRIER RAIL INSTALLED WILL BE PAID FOR AT THE CONTRACT PRICE PER LINEAL FOOT BASED ON PLAN QUANTITIES. PRICE BID FOR RETROFIT CONCRETE BARRIER RAILING SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIAL (INCLUDING REINFORCING STEEL AND 1" PLASTIC CONDUIT) PLUS ALL OF THE EQUIPMENT AND LABOR REQUIRED TO ERECT THE RAIL IN ACCORDANCE WITH THESE PLANS AND CURRENT SPECIFICATIONS.

ALL RETROFIT BARRIER RAIL CONCRETE IS TO BE EITHER CLASS BR MIX OR CLASS C MIX.

CLASS BR CONCRETE SHALL BE USED FOR THE SLIP FORMING METHOD. CLASS C CONCRETE SHALL BE USED FOR THE CAST-IN-PLACE METHOD. THE PRICE BID FOR THE CAST-IN-PLACE METHOD SHALL INCLUDE THE FORMWORK.

ALL REINFORCING STEEL IS TO BE GRADE 60 AND EPOXY COATED. THE JOINT SEALER SHALL BE LIGHT GRAY NONSAG LATEX CAULKING SEALER MARKETED FOR OUTDOOR USE. NO TESTING OR CERTIFICATION IS REQUIRED.

THE PRICE BID FOR "REMOVAL OF EXISTING HANDRAIL AND END POSTS" SHALL INCLUDE ALL COSTS ASSOCIATED WITH DISMANTLING THE EXISTING HANDRAIL (APPROX. 352 LF AND 42 POSTS). THE RAILS AND POSTS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE SITE BY THE CONTRACTOR. THE BID ITEM SHALL ALSO INCLUDE ALL COSTS ASSOCIATED WITH THE REMOVAL OF THE EXISTING CONCRETE END POSTS AND THE CUTTING OFF AND PAINTING OF THE EXISTING RAIL POST ANCHOR BOLTS IF REQUIRED.

ANY REMOVALS REQUIRED SHALL BE IN ACCORDANCE WITH SECTION 2401, OF THE STANDARD SPECIFICATIONS. ANY DAMAGE TO OTHER PORTIONS OF THE EXISTING STRUCTURE NOT NOTED FOR REMOVAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE STATE. EXISTING BRIDGE RAIL IS NOT TO BE REMOVED UNTIL AUTHORIZED BY THE ENGINEER.

DIMENSIONS SHOWN ON THESE PLANS ARE BASED ON DESIGN PLANS (ORIGINAL DESIGN NO. 1466) OR KNOWN TO BE WITHIN THE CONSTRUCTION LIMITS SHALL BE NOTIFIED BY THE BRIDGE CONTRACTOR OF THE STARTING DATE.

REVISED 1/4/13. REVISED SECTION AND MAINTENANCE NUMBER

### LOCATION

I-29 OVER PONY CREEK  
T 74 N. R. 43 E.  
SECTION 30  
LEWIS TOWNSHIP  
LATITUDE: 41.18180701  
LONGITUDE: -95.82368617  
POTTAWATTAMIE COUNTY  
MAINTENANCE NO. 7845-0000-0000  
FRWA NO. 044550-0001-02-7845-10229 (03)

### DESIGN HISTORY AT THIS SITE

DES. NO.	TYPE OF WORK
1466	ORIGINAL DESIGN
778	DECK OVERLAY
913	PAVING NOTCH AND RETROFIT RAIL

DESIGN FOR REPAIRS TO A 0° SKEW  
172'-2 X 40'-0 PRETENSIONED  
PRESTRESSED CONCRETE BEAM BRIDGE  
51'-7 END SPANS 69'-0 INTERIOR SPAN  
QUANTITIES AND GENERAL NOTES  
STA. 70+61 JANUARY, 2013

### POTTAWATTAMIE COUNTY

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION  
DESIGN SHEET NO. 1 OF 3 FILE NO. 30936 DESIGN NO. 913

Page 13 of 13

REVISED: APRIL 4, 2013

# A d d e n d u m

Iowa Department of Transportation  
Office of Contracts

Date of Letting: April 16, 2013  
Date of Addendum: April 12, 2013

<b>B.O.</b>	<b>Proposal ID</b>	<b>Proposal Work Type</b>	<b>County</b>	<b>Project Number</b>	<b>Addendum</b>
109	78-0292-078	PCC PAVEMENT - GRADE & REPLACE	POTTAWATTAMIE	IMX-029-2(78)44--02-78	16APR109.A03

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Notice: Only the bid proposal holders receive this addendum and responsibility for notifying any potential subcontractors or suppliers remains with the proposal holder.

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Make the following change to plan sheet C.7:

Add the following to Tabulation 102-5 EXISTING PAVEMENT:

NOTE: The existing shoulders on I-29 are HMA with an estimated 12 in. thickness

**REQUIRED CONTRACT PROVISIONS  
FEDERAL-AID CONSTRUCTION CONTRACTS**

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

**ATTACHMENTS**

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

**I. GENERAL**

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

**II. NONDISCRIMINATION**

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

**1. Equal Employment Opportunity:** Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under

this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

**2. EEO Officer:** The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

**3. Dissemination of Policy:** All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

**4. Recruitment:** When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

**5. Personnel Actions:** Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

**6. Training and Promotion:**

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are

applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

**7. Unions:** If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

**8. Reasonable Accommodation for Applicants / Employees with Disabilities:** The contractor must be familiar

with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

**9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment:** The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

**10. Assurance Required by 49 CFR 26.13(b):**

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

**11. Records and Reports:** The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor

will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

### III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

### IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

#### 1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions

of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b.(1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or

will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

## 2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

## 3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-

Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b.(1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

#### 4. Apprentices and trainees

##### a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly

rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

##### b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

**5. Compliance with Copeland Act requirements.** The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

**6. Subcontracts.** The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

**7. Contract termination: debarment.** A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

**8. Compliance with Davis-Bacon and Related Act requirements.** All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

**9. Disputes concerning labor standards.** Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

**10. Certification of eligibility.**

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

**V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT**

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

**1. Overtime requirements.** No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

**2. Violation; liability for unpaid wages; liquidated damages.** In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

**3. Withholding for unpaid wages and liquidated damages.** The FHWA or the contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

**4. Subcontracts.** The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

## VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;

(2) the prime contractor remains responsible for the quality of the work of the leased employees;

(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and

(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is

evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

## VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

## VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

#### **IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT**

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.

2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

#### **X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION**

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

##### **1. Instructions for Certification – First Tier Participants:**

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this

covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

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## **2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:**

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

### **2. Instructions for Certification - Lower Tier Participants:**

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which

this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the

department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

\*\*\*\*\*

**Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:**

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

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**XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING**

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.



**PREDETERMINED WAGE RATE**

**IA 13 - 1.0**

**ELECTRICIANS: (STREET AND HIGHWAY LIGHTING AND TRAFFIC SIGNALS)**

ZONE 1, ZONE 2, AND ZONE 3	20.55	5.20
ZONE 4	19.25	5.20
ZONE 5	17.00	5.20

**IRONWORKERS: (SETTING OF STRUCTURAL STEEL)**

ZONES 1 AND 2	25.05	7.45
ZONE 3	24.75	7.75
ZONE 4	20.65	6.60
ZONE 5**	20.25	6.10

**LABORERS:**

	Rates	Fringes
ZONE 1 AND ZONE 2		
GROUP AA	20.56	7.60
GROUP A	19.76	7.60
GROUP B	17.88	7.60
GROUP C	14.65	7.60
ZONE 3		
GROUP AA	20.56	7.60
GROUP A	19.76	7.60
GROUP B	17.88	7.60
GROUP C	14.65	7.60
ZONE 4		
GROUP A	16.90	7.60
GROUP B	15.58	7.60
GROUP C	12.70	7.60
ZONE 5		
GROUP A	17.55	5.90
GROUP B	14.80	5.90
GROUP C	14.20	5.90

**POWER EQUIPMENT OPERATORS:**

ZONE 1		
GROUP A	26.30	12.90
GROUP B	24.70	12.90
GROUP C	22.20	12.90
GROUP D	22.20	12.90
ZONE 2		
GROUP A	25.55	12.90
GROUP B	23.95	12.90
GROUP C	21.40	12.90
GROUP D	21.40	12.90
ZONE 3		
GROUP A	26.70	14.20
GROUP B	24.90	14.20
GROUP C	23.90	14.20
GROUP D	23.90	14.20

**PREDETERMINED WAGE RATE**

**IA 13 - 1.0**

<b>ZONE 4</b>		
GROUP A	25.50	7.85
GROUP B	24.36	7.85
GROUP C	22.28	7.85
GROUP D	22.28	7.85
<b>ZONE 5</b>		
GROUP A	22.07	6.20
GROUP B	21.03	6.20
GROUP C	19.70	6.20
GROUP D	18.70	6.20

**TRUCK DRIVER (AND PAVEMENT MARKING DRIVER/SWITCHPERSON)**

ZONE 1	19.25	9.50
ZONE 2	19.25	9.50
ZONE 3	19.25	9.50
ZONE 4	19.30	5.20
ZONE 5	17.35	5.20

**ZONE DEFINITIONS**

- ZONE 1** The Counties of Polk, Warren and Dallas for all Crafts, and Linn County Carpenters only.
- ZONE 2** The Counties of Dubuque for all Crafts and Linn County for all Crafts except Carpenters.
- ZONE 3** The Cities of Burlington, Clinton, Fort Madison, Keokuk, and Muscatine (and abutting municipalities of any such cities).
- ZONE 4** Story, Black Hawk, Cedar, Jasper, Jones, Jackson, Louisa, Madison, and Marion Counties; Clinton County (except the City of Clinton), Johnson County, Muscatine County (except the City of Muscatine), the City of Council Bluffs, Lee County and Des Moines County.
- ZONE 5** All areas of the state not listed above.

**LABORER CLASSIFICATIONS - ALL ZONES**

**GROUP AA** - Skilled pipelayer (sewer, water and conduits) and tunnel laborers (zones 1, 2 and 3).

**GROUP A** - Carpenter tender on bridges and box culverts; curb machine (without a seat); deck hand; diamond & core drills; drill operator on air tracs, wagon drills and similar drills; form setter/stringman on paving work; gunnite nozzleman; joint sealer kettleman; laser operator; pipelayer (sewer, water, and conduits) Zone 4 & 5; powderman tender; powderman/blaster; saw operator; tunnel laborer (zones 4 and 5).

## PREDETERMINED WAGE RATE

IA 13 - 1.0

GROUP B - Air, gas, electric tool operator; barco hammer; carpenter tender; caulker; chain sawman; compressor (under 400 cfm); concrete finisher tender; concrete processing materials and monitors; cutting torch on demolition; drill tender; dumpmen; electric drills; fence erectors; form line expansion joint assembler; form tamper; general laborer; grade checker; handling and placing metal mesh, dowel bars, reinforcing bars and chairs; hot asphalt laborer; installing temporary traffic control devices; jackhammerman; mechanical grouter; painter (all except stripers); paving breaker; planting trees, shrubs and flowers; power broom (not self-propelled); power buggyman; rakers; rodman (tying reinforcing steel); sandblaster; seeding and mulching; sewer utility topman/bottom man; spaders; stressor or stretcherman on pre or post tensioned concrete; stringman on re/surfacing/no grade control; swinging stage, tagline, or block and tackle; tampers; timberman; tool room men and checkers; tree climber; tree groundman; underpinning and shoring caissons over twelve feet deep; vibrators; walk behind trencher; walk behind paint stripers; walk behind vibrating compactor; water pumps (under three inch); work from bosun chair.

GROUP C - Scale weigh person; traffic control/flagger, surveillance or monitor; water carrier.

### POWER EQUIPMENT OPERATOR CLASSIFICATIONS - ALL ZONES

GROUP A - All terrain (off road) forklift, Asphalt breakdown roller (vibratory); Asphalt laydown machine; asphalt plant; Asphalt screed; bulldozer (finish); central mix plant; concrete pump; crane; crawler tractor pulling scraper; directional drill (60,000 (lbs) pullback and above); dragline and power shovel; dredge engineer; excavator (over ½ cu. yd.); front end loader (4 cy and over); horizontal boring machine; master mechanic; milling machine (over 350 hp); motor grader (finish); push cat; rubber tired backhoe (over ½ cu. yd.); scraper (12 cu. yd. and over or finish); Self-propelled rotary mixer/road reclaimer; sidebroom tractor; slipform portland concrete paver; tow or push boat; trenching machine (Cleveland 80 or similar).

GROUP B - Articulated off road hauler, asphalt heater/planer; asphalt material transfer vehicle; Asphalt roller; belt loader or similar loader; bulldozer (rough); churn or rotary drill; concrete curb machine; crawler tractor pulling ripper, disk or roller; deck hand/oiler; directional drill (less than 60,000 (lbs) pullback); distributor; excavator (1/2 cu. yd. and under); form riding concrete paver; front end loader (2 to less than 4 cu. yd.); group equipment greaser; mechanic; milling machine (350 hp. and less); paving breaker; portland concrete dry batch plant; rubber tired backhoe (1/2 cu. yd. and under); scraper (under 12 cu. yd.); screening, washing and crushing plant (mobile, portable or stationary); shoulder machine; skid loader (1 cu. yd. and over); subgrader or trimmer; trenching machine; water wagon on compaction.

GROUP C - Boom & winch truck; concrete spreader/belt placer; deep wells for dewatering; farm type tractor (over 75 hp.) pulling disc or roller; forklift; front end loader (under 2 cu. yd.); motor grader (rough); pile hammer power unit; pump (greater than three inch diameter); pumps on well points; safety boat; self-propelled roller (other than asphalt); self-propelled sand blaster or shot blaster, water blaster or striping grinder/remover; skid loader (under 1 cu. yd.); truck mounted post driver.

## PREDETERMINED WAGE RATE

IA 13 - 1.0

GROUP D - Boiler; compressor; cure and texture machine; dow box; farm type or utility tractor (under 75 hp.) pulling disk, roller or other attachments; group greaser tender; light plants; mechanic tender; mechanical broom; mechanical heaters; oiler; pumps (under three inch diameter); tree chipping machine; truck crane driver/oiler.

### **\*\*CARPENTERS AND PILEDRIVERMEN, or IRONWORKERS (ZONE 5)**

Setting of structural steel; any welding incidental to bridge or culvert construction; setting concrete beams.

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WELDERS: Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29 CFR 5.5 (a) (1) (ii)).

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In the listing above, the "SU" designation means that rates listed under that identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

## WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations  
Wage and Hour Division  
U. S. Department of Labor  
200 Constitution Avenue, N. W.  
Washington, D. C. 20210

**PREDETERMINED WAGE RATE**

**IA 13 - 1.0**

- 2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N. W.  
Washington, D. C. 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

- 3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board  
U. S. Department of Labor  
200 Constitution Avenue, N. W.  
Washington, D. C. 20210

- 4.) All decisions by the Administrative Review Board are final.

**END OF GENERAL DECISION**