

# A d d e n d u m

Iowa Department of Transportation  
Office of Contracts

Date of Letting: July 19, 2016  
Date of Addendum: July 12, 2016

<b>B.O.</b>	<b>Proposal ID</b>	<b>Proposal Work Type</b>	<b>County</b>	<b>Project Number</b>	<b>Addendum</b>
305	31-0321-038	GRADING	DUBUQUE	NHSX-032-1(38)--3H-31	19jul305.a02

Make the following changes to the PROPOSAL SCHEDULE OF PRICES:

Change Proposal Line No. 0030 2102-2710070 EXCAVATION, CLASS 10, ROADWAY AND BORROW:

From: 731,428.000 CY  
To: 336,579.000 CY

Change Proposal Line No. 0060 2102-2712070 EXCAVATION, CLASS 12, ROADWAY AND BORROW

From: 1,362.000 CY  
To: 396,214.000 CY

If the above changes are not made, they will be made as shown here.

Replace Page 2 of the Proposal Details with the attached.

Make the following changes to the PROPOSAL SPECIAL PROVISIONS LIST & TEXT:

Delete 500.01

Add 500.07.2016

\*\*\* WINTER WORK \*\*\*

Winter work will be allowed during the winter of 2016/2017.

No working days will be charged between November 15, 2016 and April 1, 2017.

Add 500.07.2017

\*\*\* WINTER WORK \*\*\*

Winter work will be allowed during the winter of 2017/2018.

No working days will be charged between November 15, 2017 and April 1, 2018.

Make the following changes to the plan:

Replace B.13, C.4, C.5, C.6, C.20, J.1, and K.5 with the attached.

Sheet B.13 revised backfill material note.

Sheet C.4 revised reference notes for Class 10 and Class 12 excavation.

Sheets C.5 and C.6 repositioned reference notes.

Sheet C.20 added Tab. 102-3.

Sheet J.1 added winter work note.

Sheet K.5 deleted old bridge note.

PROPOSAL DETAILS

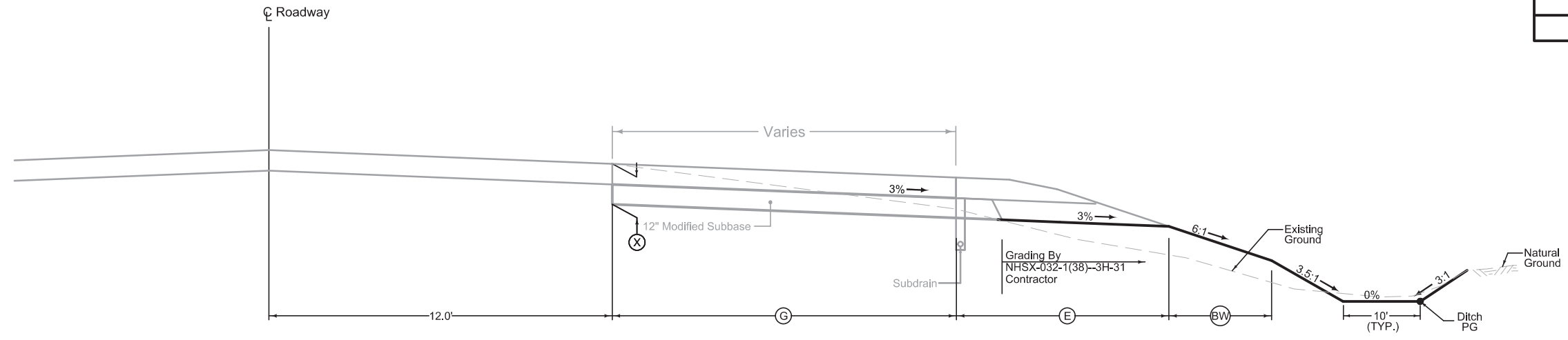
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Proposal ID No.:	31-0321-038	Bid Order No.:	305
Primary Work Type:	GRADING	Letting Date:	July 19, 2016 10:00 A.M.

Site Number	Contract Period/ Site Description		Liquidated Damages
CONTRACT	LATE START DATE: 09/19/16	240 WORKING DAYS	\$ 2,500.00
01	LATE START DATE: 09/19/16 COMPLETE GRADING RAMP A AND RAMP D	30 WORKING DAYS	\$ 2,500.00

PROPOSAL NOTES

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Section view is in direction of traffic.  
 Normal sections shown may be appropriately modified for areas specifically designated by the Engineer such as intersections or super-elevated curves.

**TYPICAL CROSS SECTION GRADING FOR RAMP TAPERS**

LOCATION			DIMENSIONS			
INTERCHANGE	RAMP	STATION TO STATION	ⓐ Feet	ⓔ Feet	Ⓧ Inches	ⓑw Feet
US 20 & SWA	A	1238+21.00 1245+41.00	Varies 2.0 to 50.0	15.3	22	12.7
US 20 & SWA	B	1202+40.00 1208+40.00	Varies 0.0 to 40.0	21.0	22	9.0
US 20 & SWA	C	1235+80.00 1245+80.00	Varies 2.0 to 22.0	21.0	22	9.0
US 20 & SWA	D	1192+00.00 1205+00.00	Varies 2.0 to 28.0	15.3	22	12.7

WHKS 19

The diagram shows a cross-section of a subcut excavation and backfill in rock and shale. It features a finished shoulder on the left, a foreslope, a subgrade surface, and a subcut excavation with backfill. The backfill has a 12" thickness. The subgrade surface has a normal slope. A note indicates 'See Typical Cross Section' for the normal subgrade width and 'Proposed P.C. Concrete Pavement' for the pavement structure.

Contractor shall excavate Class 12 area indicated and replace with suitable backfill. If subcut excavation is in Shale, then backfill shall be with cohesive Class 10 material, meeting the requirements of Article 2102.02, A. If subcut excavation is in Limestone, then backfill may be with Class 10, or the contractor may optionally use Special Backfill at no additional cost to the project.

See T-Sheet quantities for additional information.  
 See typical cross sections for ditches and backslopes.

ROAD IDENTIFICATION	Ⓧ Inches
SEIPPEL RD	27.0
SOUTHWEST ARTERIAL	28.0
EAST ACCESS CONNECTOR	27.0
RAMPS	22.0

**TYPICAL CROSS SECTION  
 SUBCUT EXCAVATION AND BACKFILL  
 IN ROCK AND SHALE**

WHKS 20

The diagram shows a cross-section of a subcut excavation and backfill in rock and shale, identical to WHKS 19. It features a finished shoulder on the left, a foreslope, a subgrade surface, and a subcut excavation with backfill. The backfill has a 12" thickness. The subgrade surface has a normal slope. A note indicates 'See Typical Cross Section' for the normal subgrade width and 'Proposed P.C. Concrete Pavement' for the pavement structure.

Contractor shall excavate Class 12 area indicated and replace with suitable backfill. If subcut excavation is in Shale, then backfill shall be with cohesive Class 10 material, meeting the requirements of Article 2102.02, A. If subcut excavation is in Limestone, then backfill may be with Class 10, or the contractor may optionally use Special Backfill at no additional cost to the project.

See T-Sheet quantities for additional information.  
 See typical cross sections for ditches and backslopes.

ROAD IDENTIFICATION	Ⓧ Inches
SEIPPEL RD	27.0
SOUTHWEST ARTERIAL	28.0
EAST ACCESS CONNECTOR	27.0
RAMPS	22.0

**TYPICAL CROSS SECTION  
 SUBCUT EXCAVATION AND BACKFILL  
 IN ROCK AND SHALE**

**ESTIMATE REFERENCE INFORMATION**

Item No.	Item Code	Description
1	2101-0850001	CLEARING AND GRUBBING See Tab 110-17 on C Sheets for locations and details.
2	2102-0425070	SPECIAL BACKFILL See Tab 103-3 on C Sheets. Includes area under Detour Pavement. Refer to Typical and Details on B sheets for additional information. Recycled concrete used as Special Backfill must meet the requirements of the Standard Specifications.
3	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW See Tab 107-28 on T Sheets for template quantities. Quantity is based on the Total Cut Adjusted column, [10] minus the Template Rock Volume column, [8] minus the Template Shale Volume column, [9]. Overhaul will not be measured or paid for, but shall be considered incidental to roadway excavation. The Contractor may use legal loads vehicles to transport material across US 20, using existing accesses. Temporary signing on US 20 while the material is being transported shall be reviewed and approved by the Engineer. This temporary signing will not be measured for separate payment but shall be incidental to Class 10 excavation.
4	2102-2710090	EXCAVATION, CLASS 10, WASTE See Tab 107-28 on T Sheets for template quantities. Quantity is based on the Total Cut Adjusted column, [10] minus the Total Fill Adjusted column [15].
5	2102-2712015	EXCAVATION, CLASS 12, BOULDERS AND ROCK FRAGMENTS See Sheet CS.1 for locations and details.
6	2102-2712070	EXCAVATION, CLASS 12, ROADWAY AND BORROW Item is for limestone (rock), and shale uncovered during excavation. Bedrock, mostly consisting of shale, was encountered at various depths. Some of the excavations will extend into the bedrock. Rippability of the bedrock will vary depending on the type of bedrock. In general, significant penetration into the shale bedrock was possible when the soil borings were obtained. The shale material is typically weathered and behaves similar to a hard soil. Therefore, excavation with backhoes equipped with teeth may be possible in the shale bedrock, although no guarantees of this condition can be made. Placement of the shale in the new constructed embankments shall comply with the Special Provisions for Shale and Soft Rock Embankments. No payment for overhaul will be allowed for this item. Measurement and payment for this item will include all work necessary to meet this Special Provision. See Tab 107-28 on T Sheets. Total quantity is based on Template Rock Volume column, [8] plus Template Shale Volume column, [9]. Also see Typical WHKS 19 and WHKS 20 on B-Sheets for additional details. Item also includes 50 CY for sanitary excavation. Existing rip rap is not included. The Contractor may use legal loads vehicles to transport material across US 20, using existing accesses. Temporary signing on US 20 while the material is being transported shall be reviewed and approved by the Engineer. This temporary signing will not be measured for separate payment but shall be incidental to Class 12 excavation.
7	2103-0000100	PRESPLITTING OF ROCK CUT See Tab 107-25 on Sheet CS.1 for locations and details.
8	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD See Tab 107-28 on T Sheets for locations and details. Proposed topsoil thickness was calculated at 8". Existing varies between 0" and 12". Refer to T Sheets and Cross Sections.
9	2107-0875100	COMPACTION WITH MOISTURE CONTROL See Tab 103-6 on CS Sheets and Tab 107-28 on T Sheets. Includes 514,581 CY template fill.
10	2115-0100000	MODIFIED SUBBASE Includes area under Ramp B and Ramp C with curb and gutter sections. Refer to Typical on the B Sheets. See Tab 100-24 on C Sheets for locations and details. Recycled concrete used as Modified Subbase must meet the requirements of the Standard Specifications.
11	2121-7425010	GRANULAR SHOULDERS, TYPE A See Tab 112-9 on C Sheets for locations and details.
12	2210-0475290	MACADAM STONE BASE See Tab 100-24 on C Sheets for locations and details.
13	2401-6745354	REMOVAL OF CONCRETE FOOTINGS, AS PER PLAN See Tab 110-16 and 190-62 on C Sheets for locations and details. Method of measurement: The Engineer will count the number of concrete footings removed. Basis of Payment: The contractor will be paid the contract unit price for the number of concrete footings removed.
14	2401-6745625	REMOVAL OF EXISTING BRIDGE See E Sheets for Cousins Rd bridge information. The lump sum bid for "Removal of Existing Bridge" shall include 100' X 200' continuous concrete slab bridge. Removals shall be in accordance with Section 2401, of the Standard Specifications. Plans of the existing structure will be made available to the contractor. Contact The Office of Contracts - Highway Division - IOWA D.O.T. - Ames.
15	2401-6745650	REMOVAL OF EXISTING STRUCTURE See Tab 110-2 on C Sheets for locations and details.
16	2401-6745910	REMOVAL OF SIGN See Tab 190-62 on C Sheets for locations and details.
17	2402-2720100	EXCAVATION, CLASS 20, FOR ROADWAY PIPE CULVERT See Tab 104-3 on C Sheets and M Sheets for locations and details.

**ESTIMATE REFERENCE INFORMATION**

Item No.	Item Code	Description
18	2416-0100015	APRONS, CONCRETE, 15 IN. DIA. See M Sheets for locations and details.
19	2416-0100018	APRONS, CONCRETE, 18 IN. DIA. See M Sheets for locations and details.
20	2416-0100024	APRONS, CONCRETE, 24 IN. DIA. See M Sheets for locations and details.
21	2416-0100030	APRONS, CONCRETE, 30 IN. DIA. See M Sheets and Tab 104-3 on C Sheets for locations and details.
22	2416-0100036	APRONS, CONCRETE, 36 IN. DIA. See M Sheets and Tab 104-3 on C Sheets for locations and details.
23	2416-0100048	APRONS, CONCRETE, 48 IN. DIA. See M Sheets for locations and details.
24	2416-0100054	APRONS, CONCRETE, 54 IN. DIA. See M Sheets and Tab 104-3 on C Sheets for locations and details.
25	2416-0100072	APRONS, CONCRETE, 72 IN. DIA. See M Sheets for locations and details.
26	2416-1180018	CULVERT, CONCRETE ROADWAY PIPE, 18 IN. DIA. See M Sheets and Tab 104-3 on C Sheets for locations and details.
27	2416-1180024	CULVERT, CONCRETE ROADWAY PIPE, 24 IN. DIA. See M Sheets and Tab 104-3 on C Sheets for locations and details.
28	2416-1180030	CULVERT, CONCRETE ROADWAY PIPE, 30 IN. DIA. See M Sheets and Tab 104-3 on C Sheets for locations and details.
29	2416-1180048	CULVERT, CONCRETE ROADWAY PIPE, 48 IN. DIA. See M Sheets and Tab 104-3 on C Sheets for locations and details.
30	2416-1180054	CULVERT, CONCRETE ROADWAY PIPE, 54 IN. DIA. See M Sheets and Tab 104-3 on C Sheets for locations and details.
31	2416-1180072	CULVERT, CONCRETE ROADWAY PIPE, 72 IN. DIA. See M Sheets and Tab 104-3 on C Sheets for locations and details.
32	2417-0225030	APRONS, METAL, 30 IN. DIA. See M Sheets for locations and details.
33	2417-1060030	CULVERT, CORRUGATED METAL ROADWAY PIPE, 30 IN. DIA. See M Sheets for locations and details.
34	2417-0130148	MANHOLE, SANITARY SEWER, SW-301, 48 IN. See Tab 104-5B on M Sheets and M Sheets for locations and details. Removal, disposal, and capping of existing sanitary pipe shall be considered incidental to this item.
35	2435-0250100	INTAKE, SW-501 See Tab 104-5B on M Sheets and M Sheets for locations and details.
36	2435-0250260	INTAKE, SW-502 60 IN. See Tab 104-5B on M Sheets and M Sheets for locations and details.
37	2435-0250500	INTAKE, SW-505 See Tab 104-5B on M Sheets and M Sheets for locations and details.
38	2503-0114215	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 15 IN. See Tab 104-5B on the M Sheets for locations and details.
39	2503-0114236	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 36 IN. See Tab 104-5B on M Sheets and M Sheets for locations and details.
40	2503-0200036	REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN. See Tab 110-14 on C Sheets for locations and details.
41	2503-0200136	REMOVE STORM SEWER PIPE GREATER THAN 36 IN. See Tab 110-14 on C Sheets for locations and details.
42	2504-0116012	SANITARY SEWER GRAVITY MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 12 IN. See Tab 104-5B on M Sheets for locations and details. Where shown on the Plans, pipe insulation required for frost protection shall be high density extruded polystyrene meeting ASTM D2842, Minimum 60 psi, equivalent to R-20 per four-inch (4") thick insulation. Insulation will not be measured and shall be considered incidental.
43	2504-0116018	SANITARY SEWER GRAVITY MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 18 IN. See Tab 104-5B on M Sheets for locations and details.
44	2504-0136012	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED DUCTILE IRON PIPE (DIP), 12 IN.

**ESTIMATE REFERENCE INFORMATION**

Item No.	Item Code	Description
		See Tab 104-5B on M Sheets for locations and details.
45	2504-0136018	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED DUCTILE IRON PIPE (DIP), 18 IN. See Tab 104-5B on M Sheets for locations and details.
46	2506-4984000	FLOWABLE MORTAR See Tab 110-9 on C Sheets for locations and details.
47	2507-3250005	ENGINEERING FABRIC See Tab 100-23 on C Sheets for locations and details.
48	2507-6800061	REVTMENT, CLASS E See Tab 100-23 on C Sheets for locations and details.
49	2510-6745850	REMOVAL OF PAVEMENT See Tab 110-1 on C Sheets for locations and details. See the B Sheets and Tab 102-5 on the C Sheets for available existing pavement information. Includes approximately 849 LF of full depth sawcut. Concrete crushing onsite, within the project limits, needs to meet current specifications and the local jurisdictional codes and ordinances.
50	2510-6750600	REMOVAL OF INTAKES AND UTILITY ACCESSES See Tab 104-5B on the M Sheets for locations and details.
51	2515-2475006	DRIVEWAY, P.C. CONCRETE, 6 IN. This item is for proposed turnaround on Cousins Road at Sta. 504+24.
52	2518-0470005	CROSSOVER BARRICADE Locations at US 20 WB Sta. 1206+65-1207+30 and US 20 WB Sta. 1226+00-1227+80.
53	2518-6891810	PERMANENT ROAD CLOSURE, RURAL, SI-181 See Tab 102-4 on C Sheets for locations and details.
54	2518-6910000	SAFETY CLOSURE See Tab 108-13A on C Sheets for locations and details.
55	2524-6765010	REMOVE AND REINSTALL SIGN AS PER PLAN See Tab 190-61 and 190-62 on C Sheets for locations and details. Method of measurement: The Engineer will count the number of signs removed and reinstalled. Basis of Payment: The Contractor will be paid the contract unit price for the number of signs removed and replaced. The contractor shall carefully remove and stockpile bid items for later installation. Any damaged items as determined by the Engineer shall be replaced by the contractor at no cost to the State. The signs shall be cleaned as directed by the Engineer before installation. The Contractor shall restore any area disturbed by the removal operation to an acceptable condition.
56	2524-6765014	REMOVE AND REINSTALL MILEPOST MARKER See Tab 190-62 on C Sheets for locations and details. Method of measurement: The Engineer will count the number of milepost markers removed and reinstalled. Basis of Payment: The Contractor will be paid the contract unit price for the number of milepost markers removed and replaced. The contractor shall carefully remove and stockpile bid items for later installation. Any damaged items as determined by the Engineer shall be replaced by the contractor at no cost to the State. The milepost markers shall be cleaned as directed by the Engineer before installation. The Contractor shall restore any area disturbed by the removal operation to an acceptable condition.
57	2524-6765015	REMOVE AND REINSTALL DELINEATOR POSTS See Tab 190-62 on C Sheets for locations and details. Method of measurement: The Engineer will count the number of delineator posts removed and reinstalled. Basis of Payment: The Contractor will be paid the contract unit price for the number of delineator posts removed and replaced. The contractor shall carefully remove and stockpile bid items for later installation. Any damaged items as determined by the Engineer shall be replaced by the contractor at no cost to the State. The delineator posts shall be cleaned as directed by the Engineer before installation. The Contractor shall restore any area disturbed by the removal operation to an acceptable condition.
58	2524-9275222	WOOD POSTS FOR TYPE A OR B SIGNS, 4" X 6" See Tab 190-61 on C Sheets for locations and details.
59	2526-8285000	CONSTRUCTION SURVEY
60	2528-8445110	TRAFFIC CONTROL See Traffic Control Plan on J Sheets for locations and details.
61	2533-4980005	MOBILIZATION
62	2554-0112012	WATER MAIN, TRENCHED, DIP, 12" Refer to M Sheets for locations and details.
63	2554-0112016	WATER MAIN, TRENCHED, DIP, 16" Refer to M Sheets. Water main shown on sheets M.25 to M.36 is for information only and is not to be installed. The casing pipe near the roundabout on Sheet M.30 will be installed as part of this project.
64	2554-0132012	WATER MAIN WITH CASING PIPE, TRENCHED, DIP, 12" Refer to M Sheets
65	2554-0132016	WATER MAIN WITH CASING PIPE, TRENCHED, DIP, 16"

**ESTIMATE REFERENCE INFORMATION**

Item No.	Item Code	Description
		Refer to M Sheets
66	2554-0203000	FITTINGS BY WEIGHT, DI Refer to M Sheets. This item includes sanitary and water main fittings.
67	2554-0206000	VALVE, BUTTERFLY, DIP, 16" Refer to M Sheets
68	2554-0207012	VALVE, GATE, DIP, 12" Refer to M Sheets
69	2554-0210201	FIRE HYDRANT ASSEMBLY, WM-201 Refer to M Sheets
70	2555-0000010	DELIVER AND STOCKPILE SALVAGED MATERIALS Fire hydrants, water valves, and other associated equipment shall be delivered to the City of Dubuque maintenance garage at 910 Kerper Blvd Dubuque, IA 52001
71	2590-0000020	PROJECT MANAGEMENT Refer to Special Provision SS-15002.
72	2599-9999001	SUBGRADE STABILIZATION Apply and distribute evenly and uniformly 1.5 tons per acre of dry cereal straw or native grass straw. Use Certified Noxious Weed Seed Free Mulch certified by the Iowa Crop Improvement Association or other state's Crop Improvement Associations.  The general absence of straw longer than 6 inches after distribution will be considered excessive pulverization and will not be accepted.  After the application of the dry cereal straw or native grass straw, apply a tackifier that will easily mix with water and shall be noncorrosive to hydraulic application equipment. The tackifier will be nonfoaming and contain mixture enhancers to prevent foaming and mixing problems during agitation in the application equipment.  Application equipment will have both mechanical agitation and a slurry bypass.  Application rate will be as indicated by the manufacturer product label for the site conditions and time of year.  Tackifiers will be considered safe to the applicator, adjacent workers, and the environment when properly applied according to Environmental Protection Agency (EPA) and other regulatory agencies.  Material Safety Data Sheets (MSDS) will be required to be submitted to the Engineer prior to application.  The tackifier will be nontoxic to plants, fish and other wildlife and 100% biodegradable.  The tackifier will be water soluble natural proteins, vegetable gums, guar gums, starch, psyllium, pitch, or rosen type blended with gelling and hardening agents, or a water soluble blend of hydrophilic polymers, viscosifiers, sticking aids and other gums.  Guar gum based tackifiers will consist of a minimum of 95% guar gum, by weight. The remaining 5% will consist of dispersing and cross-link additives. Starch will be a non-ionic, cold-water soluble (pre-gelatinized) granular cornstarch. Psyllium will be a finely ground muciloid coating of plantago seeds that is applied in a wet slurry to the surface of the soil. Pitch and Rosen will be a non-ionic pitch and rosin emulsion that has a minimum solids content of 48 percent. The rosin will be a minimum of 26 percent of the total solids content. The tackifier will be a non-corrosive, water-dilutable emulsion that cures to water-insoluble binding and cementing agent upon application.  Approved products include: Hyrdatack P by Innovative Turf Solutions, LLC HF5000 Tack by Rantec Corporation Second Nature Tacpac GTX by Central Fiber Corp. Startak 100 P by Chemstar  Method of Measurement will be in acres to the nearest 0.1 acre of subgrade stabilized.  Basis of Payment for Subgrade Stabilization will be the contract unit price per acre to the nearest 0.1 acre for Subgrade Stabilization. Payment is full compensation for preparing the area and all materials, labor, and equipment required to stabilized the subgrade.
73	2599-9999005	CONNECT TO EXISTING VAULT OR HANDHOLE See N Sheets for locations and details.
74	2599-9999005	CORE DRILL VAULT OR HANDHOLE See N Sheets for locations and details.
75	2599-9999005	FIBER VAULT, SQUARE See N Sheets for locations and details.
76	2599-9999009	BUNDLED MICRODUCT CONDUIT, TRENCHED See N Sheets for locations and details. Refer to special provision
77	2599-9999009	FIBER OPTIC CABLE See N Sheets for locations and details. Refer to special provision

**ESTIMATE REFERENCE INFORMATION**

Item No.	Item Code	Description
78	2599-9999009	WATER MAIN, REMOVAL Refer to M Sheets for locations. Method of measurement: shall be the quantity removed measured by the Engineer. Basis of payment: for water main pipe removed, the Contractor will be paid the contract unit price per linear foot. This payment shall be full compensation for materials, equipment and removal of existing 16", 12", and 8" pipe and fittings.
79	2601-2640350	SPECIAL DITCH CONTROL, WOOD EXCELSIOR MAT See Tab 100-22 on C Sheets or locations and details.
80	2601-2642100	STABILIZING CROP - SEEDING AND FERTILIZING Included for disturbed areas as directed by the Engineer.  Prepare seedbed according to 2601.03, B, 4, a.  Seed mixture shall be: Oats 50 lbs. per acre Grain rye 50 lbs. per acre *Canada wildrye (Elymus canadensis) 5 lbs. PLS per acre *Big bluestem (Andropogon gerardii) 3 lbs. PLS per acre *Little bluestem (Schizachyrium scoparium) 3 lbs. PLS per acre *Indiangrass (Sorghastrum nutans) 3 lbs. PLS per acre Sideoats grama (Bouteloua curtipendula) 3 lbs. PLS per acre Switchgrass (Panicum virgatum) 1 lbs. PLS per acre Partridge Pea (Chamaecrista fasciculata) 2 lbs. PLS per acre Butterfly weed (Asclepias tuberosa) 3 oz. PLS per acre Swamp Milkweed (Asclepias incarnata) 3 oz. PLS per acre  *Note: Canada wildrye, Big bluestem, Little bluestem and Indiangrass shall be debarbed or equal to facilitate the application of seed.  For stabilizing crop only, seed will not be required to be certified as Source Identified Class (Yellow Tag) Source G0-Iowa.  Seed may be applied by broadcasting or with a Native Grass Drill.  Broadcasted seed will require one complete rolling of the area seeded with a cultipacker within 24 hours after seeding and prior to mulching or hydromulching.  Native Grass Drilled seed must meet Article 2601.03, A, 11 and be completed per Article 2601.03, C, 5. prior to mulching or hydromulching.  All seed shall be mixed off-site by a seed conditioner approved by the Iowa Crop Improvement or other state's Crop Improvement Association. Bags shall arrive onsite from seed conditioner in sealed/unopened bags.  All disturbed areas shall be fertilized per Article 2601.03, C, 1.
81	2602-0000020	SILT FENCE Refer to Tab. 100-17 in C Sheets. The tabulation includes estimated locations for placement of Silt Fence to address possible erosion during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 25% additional quantity for field adjustments and replacements.
82	2602-0000030	SILT FENCE FOR DITCH CHECKS Refer to Tab. 100-18 in C Sheets. The tabulation includes estimated locations for placement of Silt Fence for Ditch Checks to address possible erosion during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 50% additional quantity for field adjustments and replacements.
83	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS Refer to Tab 100-17 and 100-18 in C Sheets. This item is included for silt fence and silt fence for ditch check removal required for staging reasons, for replacement (replacement to be paid separately), or for areas that have achieved 70% permanent growth.
84	2602-0000101	MAINT OF SILT FENCE/SILT FENCE-DITCH CHECK Refer to Tab 100-17 and 100-18 in C Sheets. This item is included for cleanout and repair of the silt fence and silt fence for ditch checks during the project.
85	2602-0000160	ROCK CHECK DAM Refer to Tab 100-32 in C Sheets. Method of measurement: The Engineer will measure installed rock check dams in linear feet to the nearest 0.1 foot. Basis of Payment: The Contractor will be paid the contract unit price per linear foot. Payment is full compensation for all materials, labor, and equipment required to construct the rock check dam as shown. Class 10 excavation required to cut trench and engineering fabric installed prior to placing revetment are incidental and will not be paid for separately.
86	2602-0000170	MAINT OF ROCK CHECK DAM Refer to Tab 100-32 in C Sheets. Method of Measurement: The Engineer will count each occurrence. Basis of Payment: The Contractor will be paid the contract unit price for each occurrence. Payment if full compensation for clean out and disposal of material when capacity reaches 50%, and for any repair that is needed during the project.
87	2602-0000309	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 9 IN. DIA.

**ESTIMATE REFERENCE INFORMATION**

Item No.	Item Code	Description
	-	See Tab 100-19 on C Sheets for locations and details. This item is for storm sewer inlet protection.
88	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA. This item is for as needed storm sewer erosion protection.
89	2602-0000320	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 20 IN. DIA. This item is for as needed storm sewer erosion protection.
90	2602-0000350	REMOVAL OF PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE See Tab 100-19 on C Sheets for locations and details.
91	2602-0010010	MOBILIZATIONS, EROSION CONTROL Refer to Standard Specifications
92	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL Refer to Standard Specifications



**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 IN	Type	Depth IN	Type	Depth IN	Type	Depth IN	Source	Type	Durability Class		
	Dubuque	US 20	Both				PCC/ACC		ACC	Unknown		Unknown	Unknown		Unknown	Unknown	Unknown				
	Dubuque	Cousins Rd	Both				ACC		ACC	Unknown		Unknown	Unknown		Unknown	Unknown	Unknown				
	Dubuque	Seippel Rd	Both				PCC		PCC	9		Special Backfill	12		Unknown	Unknown	Unknown				

**PROPOSED SUBGRADE TREATMENT**

(For Additional Details see Soils Survey Sheet No. \_\_\_\_\_ to \_\_\_\_\_.)

No.	Location			Description				Type	Shrink %	Quantity		Polymer Grid SY	Available From		Remarks
	Begin Station	End Station	Side	Type	Depth FT	Width FT	Area SF			Material	CY		TON	Quantity CY	
	64+99.75	75+76.11	BOTH	Standard	1.0	Var.	69,746.1	SPECIAL BACKFILL (SEE ART. 4132)	0.00%	2,583.2	4,882.227			Southwest Arterial	
	182+53.93	201+83.70	BOTH	Standard	1.0	Var.	81,862.7	SPECIAL BACKFILL (SEE ART. 4132)	0.00%	3,032.0	5,730.400			Southwest Arterial EB	
	282+53.93	301+36.47	BOTH	Standard	1.0	Var.	83,393.2	SPECIAL BACKFILL (SEE ART. 4132)	0.00%	3,088.6	5,837.500			Southwest Arterial WB	

**DRAINAGE STRUCTURE BY ROAD CONTRACTOR**

Length of unclassified pipe calculated is based on using Reinforced Concrete Pipe.

- \* Not a bid item
- ① Diameter or equivalent diameter
- ② UNCL = Unclassified Pipe

CMP = Corrugated Metal Pipe RCP = Reinforced Concrete Pipe LCP = Arch or Elliptical Low Clearance Pipe SARC = Steel Arch Pipe

Drainage Area	Location	Type	Size ①	Kind Of Pipe ②	Length New Const.	Bedding Class	Design Cover (H)	Camber* (DR-102)	Apron No.		Apron Guard* (DR-213)	Elbow* (DR-141)	Diaphragm* (DR-501)	Tee Section* (DR-142)	"D" Section* (DR-141)	Reducer*	Type 'C' Connections* (DR-122)	Connected Pipe Joint* (DR-121)	4" Perforated Subdrain*	Flow Line Elevations				Dimensions Lin. Ft.				Skew Ahead Degrees		Dike			Class 20	Flowable Mortar	Floodable* Backfill (A)	Porous* Backfill (B)	Flooded Backfill (A+B)	Remarks
									IN	OUT										Lt.	Rt.	Other	Other	Lt.	Rt.	Lt.	Rt.	Lt.	Rt.	Lt.	Rt.	Lt.						
46.0	SWA O.A. 97+34.00	CONC	48	RCP	410		24.0		1	1					2					779.00	791.00		780.94	192.0	218.0				45				8677.8					
28.0	EAST ACCESS CONN. 0+95.05	CONC	30	RCP	138		14.5			1					1					780.38	779.72			56.7	78.3								64.0					
3.0	US 20 1194+65.00	CONC	24	RCP	10		1.8			1					1	C-1	1			853.00		853.09		10.0		10.0			15					3.9				
1.6	1236+01.00	CONC	24	RCP	101		5.3			1					1	C-1	1			769.28			776.08	53.8	47.2	101.0							13.2					
46.0	1236+21.12	CONC	54	RCP	132		10.8		1	1		1				C-2	2			769.05	758.50	767.12	762.06	72.0	60.0	72.0	60.0	25						27.4				
13.0	1245+23.00	CONC	30	RCP	20		5.5			1					2	C-1	1			788.44	780.79	788.16	781.30	8.0	12.0	8.0	12.0											
	EB SWA 1245+23.00	CMP	30	CMP	39		3.2			1						C-2	1					773.92		780.79		38.6		38.6		Lt	1244+72.55	792.76	M					
2.2	RAMP A 193+00.00	CONC	24	RCP	100		4.6			1	1	1								784.88	779.85			17.5	82.5									217.8				
131.0	COUSINS RD 1523+21.38	CONC	72	RCP	178		17.0			1	1									759.50	757.80																	
SD	504+24.00	CMP	18	CMP	28		1.5									C-1	1			800.40	803.84			18.0	10.0													

**ACCESS POINTS AND SAFETY RAMPS**

Refer to Cross-Sections

Length of unclassified pipe calculated is based on using Reinforced Concrete Pipe.

- ① Refer to MI-210
- ② Refer to EW-501.
- ③ Refer to EW-501 or EW-502.

\*Predetermined for access point not constructed with this project.

Location		Type	Length of Opening ①			Pipe Culvert ③								Driveway Surface Area		Driveway Surfacing Material	Remarks		
Station	Side	A, B, C, Safety Ramp, or Predetermined*	Case	1 1/2" Dropped Curb	3" Dropped Curb	W	①	②	③	H	Size	Pipe Length	Lt.	Rt.	Aprons			HMA	PCC
			1 or 2	LF	LF	FT	FT	FT	FT	IN	LF	LF	LF	LF	No.	SY	SY	TON	
504+24.00	Lt	B	1			22.0	15.0	10.0	1.5	18.0	28.0	18.0	10.0				121.4		Connect proposed culvert to existing culvert under the adjacent entrance. Connect with Type C Concrete Adapter.

Changed by Addenda



### 511 TRAVEL RESTRICTIONS

Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No., Structure ID, or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks
	No Travel Restrictions Expected											

**108-23A**  
08-01-08

### TRAFFIC CONTROL PLAN

Refer to Tab. 108-26A for traffic control specifics.

Traffic control on this project shall be in accordance with Standard Road Plans listed on Tab 105-4.  
For additional complementary information, refer to part 6 of the Manual on Uniform Traffic Control Devices and to the current Standard Specifications.

US 20  
Maintain two lanes of traffic, both eastbound and westbound, at all times during construction, with the following exception:  
No Winter Work will be allowed on US 20 within 40 feet of the edge of traveled way.

Single lane closures, both eastbound and westbound, may be allowed between the hours of 9:00 pm. and 6:00 am, with the approval of the Engineer

The US 20 Intersection with Seippel Road shall be permanently closed.  
Seippel Road traffic will be detoured to the Northwest Arterial.

Seippel Road  
Seippel Road shall be permanently closed at US 20.  
Seippel Road traffic will be detoured to the Northwest Arterial.

Cousins Road  
Cousins Road shall be permanently closed to the limits shown on the plan.

Contractor shall furnish, maintain and remove detours shown on Sheet J.2.

**108-26A**  
08-01-08

### STAGING NOTES

The grading of Ramp A shall be completed by winter shut down and Ramp D shall be completed by October 31, 2016.

No other staging shall be required.

**111-01**  
04-17-12

### COORDINATED OPERATIONS

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
NHSX-032-1(37)--3H-31	PCC Pavement - Grade and New
NHSX-032-1(25)--3H-31	Grading
NHSX-020-9(209)--3H-31	Bridge New - PPCB
NHSX-020-9(210)--3H-31	PCC Pavement - Grade and New
NHSX-020-9(211)--3H-31	Bridge New
NHSX-020-9(237)--3H-31	Bridge New - PPCB
NHSX-032-1(42)--3H-31	Bridge New - PPCB

Changed by Addenda

