

100-1D 10-18-05
PROJECT DESCRIPTION
This project is for various RCB culvert extensions along US 6 from 0.4 miles East of County V-52 to 1.15 miles East of IA 220. It will involve PCC patching, grading, and granular shoulder construction.

100-0A 10-28-97					
ESTIMATED ROADWAY QUANTITIES (1 DIVISION PROJECT)					
Item No.	Item Code	Item	Unit	Total	As Built Qty.
1	2102-0425070	SPECIAL BACKFILL	TON	324.8	
2	2102-2625000	EMBANKMENT-IN-PLACE	CY	1,324.0	
3	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	936.0	
4	2102-2710090	EXCAVATION, CLASS 10, WASTE	CY	8.0	
5	2105-8425005	TOPSOIL, FURNISH AND SPREAD	CY	409.0	
6	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	364.0	
7	2107-0875100	COMPACTION WITH MOISTURE CONTROL	CY	112.0	
8	2121-7425020	GRANULAR SHOULDERS, TYPE B	TON	281.9	
9	2213-2713300	EXCAVATION, CLASS 13, FOR WIDENING	CY	104.5	
10	2402-0425040	FLOODED BACKFILL	CY	74.0	
11	2414-7200010	SAFETY GRATE, TYPE 1, CULVERT	EACH	3	
12	2414-7200020	SAFETY GRATE, TYPE 2, CULVERT	EACH	1	
13	2416-0102254	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 54 IN.	EACH	1	
14	2416-1200254	CULVERT, LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 54 IN.	LF	8	
15	2422-0360018	APRONS, UNCLASSIFIED, 18 IN. DIA.	EACH	2	
16	2422-1722018	CULVERT, UNCLASSIFIED ENTRANCE PIPE, 18 IN. DIA.	LF	60	
17	2507-3250005	ENGINEERING FABRIC	SY	497.8	
18	2507-6800061	REVTMENT, CLASS E	TON	289.3	
19	2519-3280000	FENCE, FIELD	LF	420.6	
20	2519-4200140	REMOVAL OF FENCE, FIELD	LF	326.3	
21	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	STA	53.80	
22	2527-9263131	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS	STA	11.55	
23	2527-9263180	PAVEMENT MARKINGS REMOVED	STA	56.69	
24	2528-8400048	TEMPORARY BARRIER RAIL, CONCRETE	LF	1,250.0	
25	2528-8400256	TEMPORARY TRAFFIC SIGNALS	EACH	4	
26	2528-8445110	TRAFFIC CONTROL	LS	1.00	
27	2528-8445113	FLAGGERS	EACH	See Proposal	
28	2529-2242304	CD JOINT ASSEMBLY	EACH	4	
29	2529-2242320	CT JOINT	EACH	2	
30	2529-5070110	PATCHES, FULL-DEPTH FINISH, BY AREA	SY	185.6	
31	2529-5070120	PATCHES, FULL-DEPTH FINISH, BY COUNT	EACH	6	
32	2529-8174010	SUBBASE (PATCHES)	SY	185.6	
33	2551-0000110	TEMP CRASH CUSHION	EACH	14	
34	2602-0000020	SILT FENCE	LF	3,425.0	
35	2602-0000030	SILT FENCE FOR DITCH CHECKS	LF	94.8	
36	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	3,519.8	
37	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF	352.0	

100-4A 10-29-02		
ESTIMATE REFERENCE INFORMATION		
Item No.	Item Code	Description
1	2102-0425070	SPECIAL BACKFILL Item is for placement under granular shoulders. See detail WHKS-1 on Sheet B.1 and Tab. 112-9 on Sheet C.10 for details. Bid item quantity is increased 5% for irregularities.
2	2102-2625000	EMBANKMENT-IN-PLACE Item is for additional fill material required for grading. Bid item does not include shrinkage. See T Sheets for details.
3	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW Item is for the total cut material required for grading. See T Sheets for details.
4	2102-2710090	EXCAVATION, CLASS 10, WASTE Item is for excess cut material. See T Sheets for details.
5	2105-8425005	TOPSOIL, FURNISH AND SPREAD Item is for additional topsoil fill material required for grading. Proposed depth assumed at 12 inches. See T Sheets for details.
6	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD Item is for the total topsoil cut material required for grading. Existing depth assumed at 4 inches. See T Sheets for details.
7	2107-0875100	COMPACTION WITH MOISTURE CONTROL Item is for backfill of 12' x 4' RCB. See Tab. 104-4 on Sheet C.7 for details.

100-4A 10-29-02		
ESTIMATE REFERENCE INFORMATION		
Item No.	Item Code	Description
8	2121-7425020	GRANULAR SHOULDERS, TYPE B Item is for placement of 6" granular shoulders. See detail WHKS-1 on Sheet B.1 and Tab. 112-9 on Sheet C.10 for details. See D Sheets for locations.
9	2213-2713300	EXCAVATION, CLASS 13, FOR WIDENING Item is for removal of existing granular shoulders. See Tab. 112-9 on Sheet C.10 for details.
10	2402-0425040	FLOODED BACKFILL Item is for backfill of RCB and LCP. See Tab. 104-3 and 104-4 on Sheet C.7 for details.
11	2414-7200010	SAFETY GRATE, TYPE 1, CULVERT
12	2414-7200020	SAFETY GRATE, TYPE 2, CULVERT See Tab. 108-24 on Sheet C.6. See Sheet 9 for Design 217 existing safety grate removal information.
13	2416-0102254	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 54 IN.
14	2416-1200254	CULVERT, LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 54 IN. See Tab. 104-3 on Sheet C.7.
15	2422-0360018	APRONS, UNCLASSIFIED, 18 IN. DIA.
16	2422-1722018	CULVERT, UNCLASSIFIED ENTRANCE PIPE, 18 IN. DIA. See Tab. 102-3 on Sheet C.8.
17	2507-3250005	ENGINEERING FABRIC
18	2507-6800061	REVTMENT, CLASS E Item is for placement at RCB outlet and inlet. See V Sheets for details and locations.
19	2519-3280000	FENCE, FIELD Item is for installation of fence around permanent easement limits. See Sheet D.6 for locations.
20	2519-4200140	REMOVAL OF FENCE, FIELD Item is for removal of existing fence. See Sheet D.6 for locations.
21	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED
22	2527-9263131	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS
23	2527-9263180	PAVEMENT MARKINGS REMOVED See Tab. 108-22 on Sheet C.9-C.10.
24	2528-8400048	TEMPORARY BARRIER RAIL, CONCRETE See Tab. 108-33 on Sheet C.8.
25	2528-8400256	TEMPORARY TRAFFIC SIGNALS See Tab. 108-28 on Sheet C.8.
26	2528-8445110	TRAFFIC CONTROL See Tab. 108-23A on Sheet J.1 for details.
27	2528-8445113	FLAGGERS
28	2529-2242304	CD JOINT ASSEMBLY
29	2529-2242320	CT JOINT
30	2529-5070110	PATCHES, FULL-DEPTH FINISH, BY AREA
31	2529-5070120	PATCHES, FULL-DEPTH FINISH, BY COUNT
32	2529-8174010	SUBBASE (PATCHES) See Tab. 102-6C on Sheet C.6. See Tab. 102-5 on Sheet C.6 for existing pavement information.
33	2551-0000110	TEMP CRASH CUSHION See Tab. 108-30 on Sheet C.8.
34	2602-0000020	SILT FENCE See Tab. 100-17 on Sheet C.6 for details. Verify specific locations with the Engineer prior to placement. Bid item quantity is increased by 25% for field adjustments and replacement.
35	2602-0000030	SILT FENCE FOR DITCH CHECKS Refer to Tab. 100-18 on Sheet C.6. 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.
36	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS This item is included for silt fence or silt fence for ditch check removal to allow for replacment (replacment to be paid seperately), or for areas that have achieved 70% permanent growth. Item is estimated at 100% of the total Tab. 100-0A quantity for Silt Fence and Silt Fence for Ditch Checks.
37	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK This item is included for clean-out of and repair of the silt fence and silt fence for ditch checks during the guardrail grading. Item is estimated at 10% of the total Tab. 100-0A quantity for Silt Fence and Silt Fence for Ditch Checks.