

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Roadway Items : Roadway Items

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Roadway Items	
1	2528-8445110	TRAFFIC CONTROL	LS	1	Refer to Tab. 108-23A.
2	2533-4980005	MOBILIZATION	LS	1	- -
3	2599-9999009	('LINEAR FEET' ITEM) CLEAN OUT RCB CULVERT	LF	200	<p>Remove soil, sediment, grit and debris from the barrel of dual 20'x14' x 110'RCB at Sta. 1241+98.00. Work includes cleanout and removal from the project site of all fill material and debris blocking RCB culverts. All work shall be done within existing state right of way. Silt, mud or other materials removed from culverts is prohibited from migrating onto private properties. Refer to sheet U.1 for flood debris photos.</p> <p>Method of measurement and basis for payment will be per linear foot (measured by the engineer to nearest foot) of existing roadway culverts that are cleaned of all foreign and obstructing materials.</p> <p>If the contractor wants to construct a temporary causeway within the Yeader Creek, they will be responsible for acquiring all the permits prior to the construction of the causeway.</p> <p>The contractor will need to coordinate with the Rock Island District U.S. Army Corps of Engineers for a Section 404 Permit and the Iowa Department of Natural Resources for a Sovereign lands Construction Permit.</p> <p>The contractor should be aware that obtaining a 404 permit has been taking us up to two months and a Sovereign Lands permit could take several months.</p> <p>If debris is to be cleared by equipment from the riverbank, then they are not to put equipment in the river.</p>

PROJECT DESCRIPTION

This project involves the cleaning and removal of all fill material and debris obstructing the RCB culvert over Yeader Creek on US 69.

100-1D
10-18-05

STANDARD ROAD PLANS

105-4
0-18-11

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

[illegible]

<div><div>232-3A 10-19-21</div><div>EROSION CONTROL (RURAL SEEDING)</div><div>Area to be seeded is estimated to be less than 1 acre. If the contractor determines the area exceeds 2 acres, notify the Engineer. Approved quantity in excess of 2 acres will be paid for as extra work according to Article 1109.03,B of the Standard Specifications. Following the completion of work in a disturbed area and according to the seeding dates in Section 2601 of the Standard Specifications, place seed, fertilizer, and mulch on the disturbed area lying 8 feet adjacent to shoulder and median as follows: Place seed and fertilize according to the requirements of Article 2601.03,C,3 and Section 4169 of the Standard Specifications. Place mulch according to the requirements of Articles 2601.03,E,2,a and 4169.07,A of the Standard Specifications. Preparing the seedbed, furnishing and applying seed, fertilizer, and mulch are all incidental to mobilization and will not be paid for separately.</div></div>			<div><div>232-3C 10-19-21</div><div>EROSION CONTROL (NATIVE GRASS SEEDING)</div><div>Area to be seeded is estimated to be less than 1 acre. If the Contractor determines the area exceeds 2 acres, notify the Engineer. Approved quantity in excess of 2 acres will be paid for as extra work according to Article 1109.03,B of the Standard Specifications. Following the completion of work in a disturbed area and according to the seeding dates in Section 2601 of the Standard Specifications, place seed and mulch on the disturbed area lying 8 feet or more beyond the shoulder as follows: SEED MIX: Big bluestem (Andropogon gerardii) 6 lbs. PLS/Acre (7.0 kg/ha) Indiangrass (Sorghastrum nutans) 6 lbs. PLS/Acre (7.0 kg/ha) Little bluestem (Schizachyrium scoparium) 6 lbs. PLS/Acre (7.0 kg/ha) Partridge Pea (Chamaecrista fasciculata) 4 lbs. PLS/Acre (4.5 kg/ha) Sideoats grama (Bouteloua curtipendula) 4 lbs. PLS/Acre (4.5 kg/ha) Canada wildrye (Elymus canadensis) 2 lbs. PLS/Acre (2.2 kg/ha) Switchgrass (Panicum virgatum) 1 lbs. PLS/Acre (1.1 kg/ha) Oats (Avena sativa) 32 lbs./Acre (36.0 kg/ha) Furnish Big bluestem, Indiangrass, Canada wildrye and Little bluestem that is bearded or equal to facilitate the application of seed. Furnish seed certified as Source Identified Class (Yellow Tag) Source G0-Iowa. Oats are excluded from this requirement. Place seed according to the requirements of Article 4169.02 of the Standard Specifications. Place mulch according to the requirements of Articles 2601.03,E,2,a and 4169.07,A of the Standard Specifications. Preparing the seedbed, furnishing and applying seed and mulch are incidental to mobilization and will not be paid for separately.</div></div>			<div><div>232-11 10-19-21</div><div>EROSION CONTROL (STABILIZING CROP SEEDING)</div><div>Area to be seeded is estimated to be less than 1 acre. If the contractor determines the area exceeds 2 acres, notify the Engineer. Approved quantity in excess of 2 acres will be paid for as extra work according to Article 1109.03,B of the Standard Specifications. If outside of permanent seeding dates in Section 2601 of the Standard Specifications, or if required by a storm water permit, place stabilizing crop, fertilizer, and mulch on the disturbed area as follows: Place seed and fertilize according to the requirements of Article 2601.03,C,1 and Section 4169 of the Standard Specifications. Place mulch according to the requirements of Articles 2601.03,E,2,a and 4169.07,A of the Standard Specifications. Preparing the seedbed, furnishing and applying seed, fertilizer, and mulch are incidental to mobilization and will will not be paid for separately.</div></div>		
<div><div>262-6 10-18-05</div><div>UTILITIES (NOT A POINT 25 PROJECT)</div><div>This is NOT a POINT 25 project and is not subject to the provisions of IAC 761-115.25.</div></div>								
<div><div>FILE NO.</div><div>ENGLISH</div><div>DESIGN TEAM VORTHERMS\ADEY\TAMRAKAR</div><div>POLK COUNTY</div><div>PROJECT NUMBER MB-069-1(504)82--77-77</div><div>SHEET NUMBER C.3</div></div>								
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108-23A
08-01-08

TRAFFIC CONTROL PLAN

1. Through traffic will be maintained on the project at all times.

2. Traffic control on this project shall be in accordance with the Standard Road Plans listed in Tab. 105-4.

108-25
10-21-14

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
US69	NB/SB	Polk	Yeader Creek 3.8 mi S of I-235	Yeader Creek	Traffic Control Device	7781.9S069	Horizontal					FHWA #40491

FILE NO.

ENGLISH

DESIGN TEAM VORTHERMS\ADEY\TAMRAKAR

POLK COUNTY

PROJECT NUMBER MB-069-1(504)82--77-77

SHEET NUMBER J.1

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FLOOD SEDIMENTATION AND DEBRIS: PHOTOGRAPHS

76' Fin. Rdwy.

44' 32'

54' 42'

Gutter Line El. 835.20

Sho. El. 836.10

3:1 slope

Gr. El. 836.27

Gutter Line El. 835.53

Sho. El. 836.43

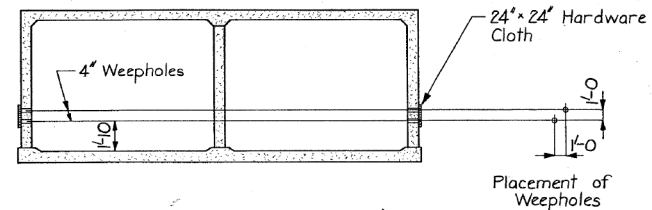
3:1 slope

Present Ground Line

Fl. El. 819.0

Fl. El. 818.0

Anticipated Settlement = 0.27'
No camber required



24" x 24" ~ 1/8" Mesh Size, galvanized hardware cloth centered on weepholes. Hardware cloth to be firmly attached to concrete on outside face of walls. Include cost in price bid for concrete. See "Situation Plan" for location of weepholes.

Item No	Item	Unit	Quantity
1	Structural Concrete C.I.C	Cu.Yds.	889.6
2	Reinforcing Steel	Lbs.	151013
3	Class 20 Excavation	Cu. Yds.	3000
4	Granular Backfill	Cu. Yds.	1150
5	Flowable Mortar	Cu. Yds.	165
6	Temporary Support	L.S.	lump sum
7	Removal of Existing Structure	L.S.	lump sum
8	Storm Sewer 18" dia. 2000 D	Lin. Ft.	4.0
9	Storm Sewer 18" dia. 1500 D	Lin. Ft.	4.0
10	Storm Sewer 15" dia. 1500 D	Lin. Ft.	8.0

- 1 Includes cost of galvanized hardware cloth required at the weepholes.
- 5 Includes cost of bond breaker required for placement of flowable mortar.



HYDRAULIC DATA:
D.A. = 4.3 sq.mi. R-H
Q₅₀ = 3800 cfs
Nat. Stage El. 833.1
Q₁₀₀ = 4600 cfs
Nat. Stage El. 834.1
Extreme H.W. - not available
Over Topping Flood = 5300 cfs

TRAFFIC COUNT:
A.D.T. = 47,000 V.P.D. (2003)

Design Sheet No.: 1 Of 12 File No.: 26510 Design No.: 181

PROJECT NUMBER	STATE	FED. ROAD DIST. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HFS-65-4(34)--2H-77	IOWA	5		99B	304

SHEET NUMBER **U.2**