

GENERAL NOTES

The removal of Bituminous Surfacing less than 6 inch thickness not on a rigid type base removed in conjunction with the base shall be removed as EARTH EXCAVATION. The removal of Bituminous Surfacing on a rigid type base or a thickness of 6 inches or more on a flexible base removed in conjunction with the base shall be included in the contract unit price for PAVEMENT REMOVAL of the type specified.

The final top 4 inches of soil in any right-of-way area disturbed by the Contractor must be capable of supporting vegetation. The soil must be from the A horizon (zero to 2' deep) of soil profiles of local soils. The cost of this work shall be included in the unit prices bid and no additional compensation will be allowed.

All Borrow/Waste/Use sites must be approved by the Department prior to removing any material from the project or initiating any earthmoving activities, including temporary stockpiling outside the limits of construction.

The Contractor shall seed all disturbed areas within the project limits. Seeding Class 4 or 2A shall be used, except in front of properties where the grass will be mowed, then use Seeding, Class 1. Class 2A shall be used on front slopes and ditch bottoms. Class 4 shall be used behind Type A gutter, on all backslopes and areas behind the backslope, and beyond the toe of front slope on fill sections without ditches.

Placement and compaction of the backfill for proposed across road culverts and existing across road culverts that are removed shall conform to Section 502.10 of the Standard Specifications, except that the material shall conform to Article 208.02 of the Standard Specifications, and shall be compacted to a minimum of 95% of the standard laboratory density. Any material conforming to the requirements of Article 1003.04 or 1004.05 which has been excavated from the trenches shall be used for backfilling the trenches. The entire excavation, within 2 feet outside of each shoulder, shall be backfilled with trench backfill material to the bottom of the proposed subgrade. Impervious material shall be used on the outer 3 feet of each end of the culvert. This trench backfill material will not be measured for payment, but shall be included in the contract unit price for the class of concrete involved or other unit price item of the work for which it is required.

The subgrade on this project, exclusive of rock cut areas is scheduled to be improved to a 12" depth according to Mechanistic Pavement Design. The areas scheduled to be improved to a depth greater than 12" are estimated based on the original geotechnical investigation. The subgrade shall be processed in accordance with Article 301.04 of the Standard Specifications before the engineer shall determine the limits and the additional thickness of improvement required, if any. Any additional undercutting required after this evaluation shall be paid for as EARTH EXCAVATION.

All "Aggregate Subgrade Improvement" (Section 303), shall be completed in accordance with Articles 311.04, 311.05, 311.05(a), 311.06 and 311.07. All aggregate subgrade thicknesses equal to or less than 12 inches shall be constructed of aggregate of CA02 gradation. All aggregate subgrade thicknesses greater than 12 inches shall be constructed of CS02.

All embankment constructed of cohesive soil shall be constructed with not more than 110% of optimum moisture content, determined by the standard proctor test. Cohesive soil shall be defined as any soil which contains greater than 10% particles by weight passing the 75 µm (#200 sieve). The 110% of optimum moisture limit may be waived in free-draining granular material when approved by the Engineer.

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Incidental		
PG:	PG 64-22		
Design Air Voids	3 @ N50		
Mixture Composition (Gradation Mixture)	IL 9.5		
Friction Aggregate	C		
20 Year ESAL			
Quality Management Program to be Used			

* On projects with less than 2000 tons Level Binder, Growth Curve will be used for Density and IL 9.5 may be used

The area to be primed shall be limited to that which can be covered with HMA on the next day's production, but no more than five days in advance of the placement of the HMA, unless approved by the Engineer.

A Nationwide 404 Permit has been issued for this project and the conditions of that permit must be adhered to.

The soils report and profiles are available at the District Office for Contractor's review.

The boring logs for this structure indicate that groundwater levels may encroach on the construction limits of this culvert. It shall be the responsibility of the contractor to control the ground water and divert the stream flow during construction in order to keep the construction area free of water. The method of controlling the water shall be subject to approval of the Engineer and the cost shall be included in the contract unit price for the associated drainage structure.

Culvert & bridge flows must be maintained throughout the project. Normal flow shall be allowed to pass at the rate it enters the jobsite. High flows shall be allowed to pass without causing damage to upstream properties.

The Contractor shall remove all entrance culverts in condition for reuse which are not to be left in place. They shall be cleaned and stored along the right of way as directed. In no case shall they be roughly handled or shoved by heavy machinery. Unusable material shall be disposed of by the Contractor at his expense. Cost of the work to be included in the contract unit price for EARTH EXCAVATION.

The proposed pipes for entrances and side roads shall be placed in line with the existing or proposed ditch line.

Connecting bands for corrugated metal pipes shall be metal and shall be coated with the same material as the pipe sections. The connecting bands shall be a minimum of 18" wide.

It is anticipated that several mailboxes will require relocation to the approach side of the entrances. When this is done, the contractor shall be required to mount the mailbox on a 4" x 4" wood post 40" above the shoulder surface and extending to a minimum of 24" into the embankment. This work shall be included in the contract unit price for the EARTH EXCAVATION. There are an estimated 16 mailboxes to be relocated.

The new manhole lids on this project shall have the word "STORM", "SANITARY", or "WATER" on the lid. The word to be used is noted on the plans. It will be the Contractor's responsibility to determine the word to be used on other lids not noted on the plans. No additional compensation will be allowed for this work.

All proposed manholes on this project shall be cast-in-place or precast. This work will be paid for at the contract unit price Each for MANHOLE of the type and size specified.

Where field tile is encountered, storm sewer or pipe drain will be used in accordance with Section 611. The minimum size for replacement will be 6" for Pipe Drains and 8" for Storm Sewer, but the size must be at least 2" larger than the adjoining tile. A Field Tile Junction Vault will be constructed at the right of way to connect the tile and storm sewer. See the Summary of Quantities for the estimated quantities.

The underdrain system scheduled on this project is to be constructed in accordance with Section 601 of the Standard Specifications for Road and Bridge Construction, except CA 16 shall be used in lieu of FA 1 or FA 2 for trench backfill. The CA 16 shall be according to Article 1004.05 and Article 1004.01 of the Standard Specifications, except in the table, Course Aggregate Gradation, the percent passing the No. 16 sieve shall be 4 ± 4%. The trench shall be wrapped using a fabric envelope meeting the requirements of Article 1080.05 of the Standard Specifications. Fabric encasing the pipe shall be eliminated.

Delineators shall be installed as shown in Standard 635001, except that the post shall be rotated 180° and only metal-backed delineators shall be permitted. Delineators shall be placed at the ends of approach guardrail terminal sections, and at each headwall or end section of AR Culverts. This work will be paid for at the contract unit price each for DELINEATORS.

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	PLOT SCALE =	DRAWN -	REVISED -			FAU 5789 (US 8) & FAU 5881 (R 84)	2R-1	Henry	235	9
	PLOT DATE = 8/6/2014 11:45 AM	CHECKED -	REVISED -			CONTRACT NO. 64J43				
		DATE - 8/4/2014 1:13 PM	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	
						ILLINOIS	FED. AID PROJECT			