

04-22-2016 LETTING ITEM 016

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

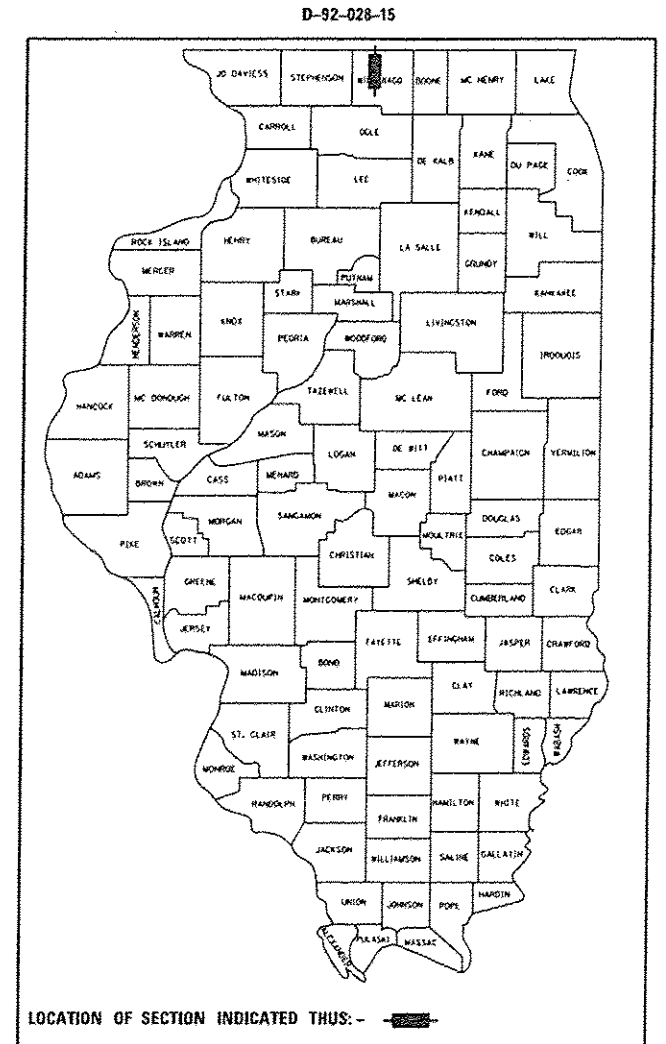
**PROPOSED
HIGHWAY PLANS**

**FAS 38 (HARRISON ROAD)
SECTION (T-1-15d)M
SCOUR COUNTERMEASURES
WINNEBAGO COUNTY**

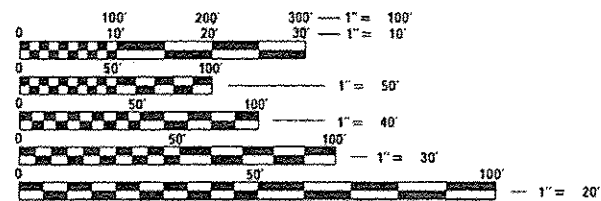
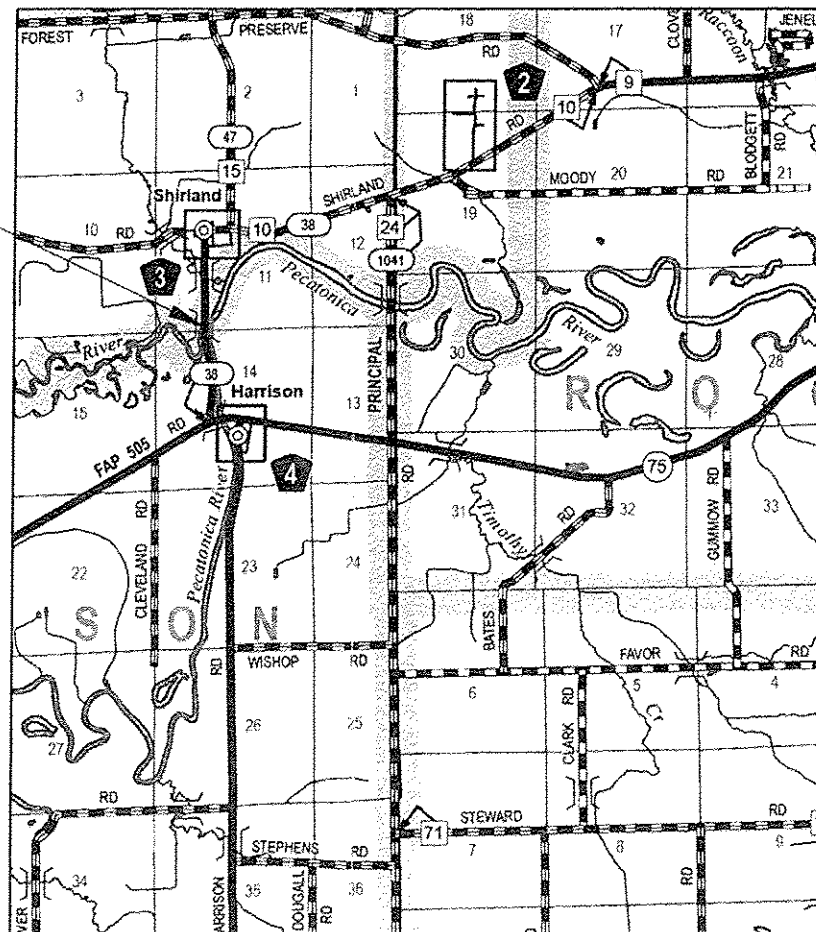
C-92-066-15

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
38	(T-1-15d)M	WINNEBAGO	4	1
ILLINOIS			CONTRACT NO. 64K78	

FOR INDEX OF SHEETS, SEE SHEET NO. 2



SCOUR MITIGATION
AT SN 101-0085,
FAS 38 OVER
SUGAR RIVER,
N42.4359, W-89.1980

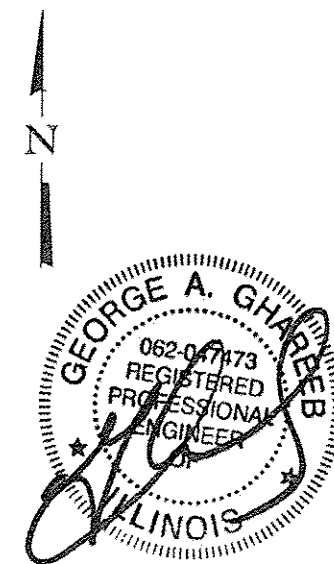


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: K. FIELDS
PROJECT MANAGER

CONTRACT NO. 64K78



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Jan. 22nd 2016
Paul C. [Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 13 2016
Maurice M. Addis PE
ENGINEER OF DESIGN AND ENVIRONMENT

March 13 2016
Over Osman PE
DIRECTOR OF HIGHWAYS/CHIEF ENGINEER

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SUMMARY OF QUANTITIES

100%
STATE
0014

CODE NO.	ITEM	UNIT	TOTAL
20200100	EARTH EXCAVATION	CU YD	139
20300100	CHANNEL EXCAVATION	CU YD	273
28100209	STONE RIPRAP, CLASS A5	TON	618
28200200	FILTER FABRIC	SQ YD	386
67100100	MOBILIZATION	L SUM	1
70100450	TRAFFIC CONTROL & PROTECTION, STANDARD 701201	L SUM	1

GENERAL NOTES

This section shall be constructed in accordance with the plans; the Standard Specifications for Road and Bridge Construction, Adopted January 1, 2012; the Supplemental Specifications and Recurring Special Provisions indicated on the checksheet; and the Special Provisions included in the proposal.

The work included in this project consists of scour mitigation, channel excavation and all other work necessary to complete this section.

Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to the construction or ordering of material. Such variations shall not be cause for additional compensation or a change in the scope of work. The Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123.

IDOT is not a member of JULIE. If you are near any overhead lighting, intersection lighting or traffic signals, contact the IDOT Traffic Office at 815/284-5469 at least 48 hours prior to work.

G.N. - 281

The riprap gradation shall be in accordance with the gradation specified in the plans, or, with approval of the Engineer, a riprap gradation meeting a D50 greater than or equal to 1.1 feet for A5. D50 is defined as the mean rock size as described in the FHWA Hydraulic Engineering Circulars (HEC 11, HEC 14, AND HEC 15).

If gravel is used for the bedding material under riprap, the gravel shall be crushed as allowed under Article 1005.01.

The cost of bedding material will not be paid for separately but should be included in the cost of riprap.

Any disturbances to ditches, slopes or other areas within the work area shall be regraded and reseeded at the Contractor's expense at the completion of the contract.

INDEX OF SHEETS

- 1 Cover Sheet
- 2 Summary of Quantities, Highway Standards, General Notes & Index of Sheets
- 3-4 Scour Mitigation Plan Sheets

LIST OF HIGHWAY STANDARDS

- 000001-06 Standard Symbols, Abbreviations and Patterns
- 001006 Decimal of an Inch and of a Foot
- 701006-05 Off-Rd Operations, 2L, 2W 15' to 24' From Pavement Edge
- 701011-04 Off-Rd Moving Operations, 2L, 2W Day Only
- 701201-04 Lane Closure, 2L, 2W Day Only for Speeds > 45 mph
- 701901-05 Traffic Control Devices
- 720011-01 Metal Post for Signs, Markers and Delineators
- 728001-01 Telescoping Steel Sign Support
- 729001-01 Application of Types A and B Metal Paste (For Signs & Markers)

**SHIRLAND ROAD OVER
SUGAR RIVER
F.A.S. ROUTE 38
WINNEBAGO COUNTY
STRUCTURE NO. 101-0085**

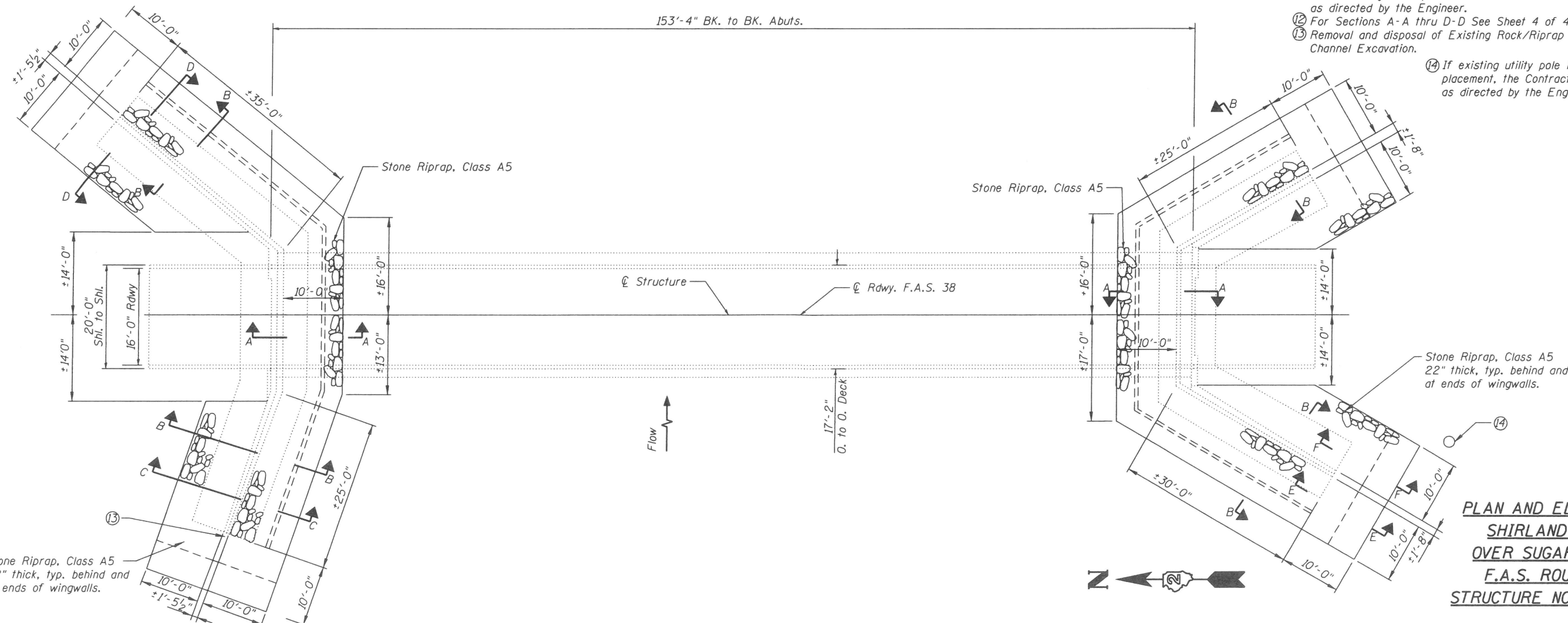
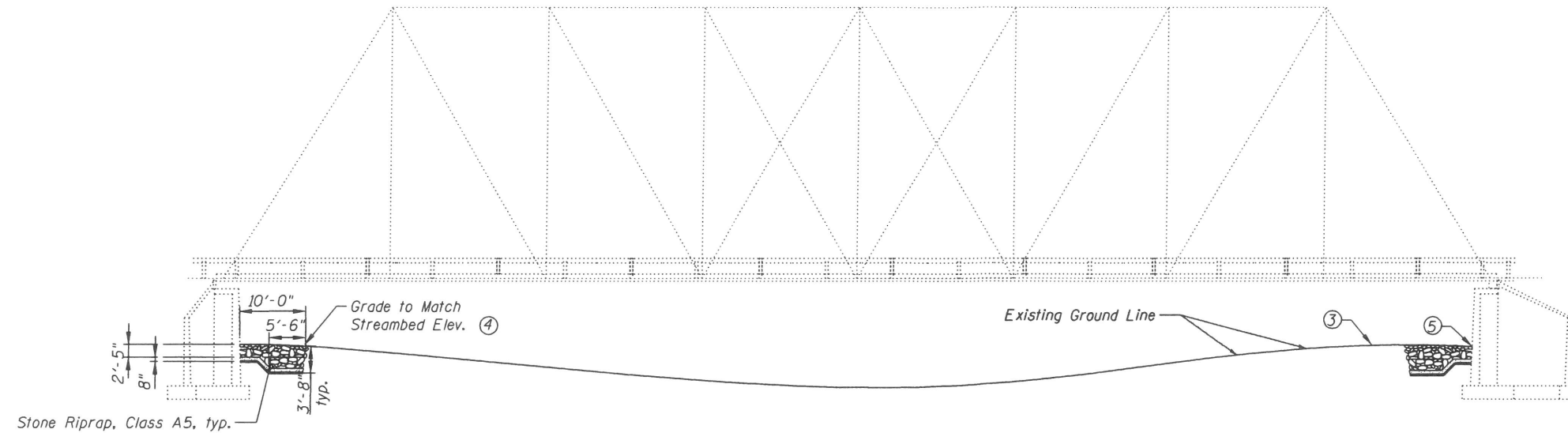
	USER NAME :	DESIGNED :	REVISED :	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES, HIGHWAY STANDARDS, GENERAL NOTES & INDEX OF SHEETS	F.A.S. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PILOT SOURCE :	CHECKED :	REVISED :			38	(7-1)-(15)M	WINNEBAGO	4	2	
	PILOT DATE :	DRAWN :	REVISED :			CONTRACT NO. 64K7B					
		CHECKED :	REVISED :			ILLINOIS FED. AID PROJECT					

Existing Structure: Structure Number 101-0085 steel thru truss bridge on closed abutments with 153'-4" bk. to bk. abuts. by 19'-2" wide c. to c. trusses. Originally built in 1923. In 1987, the existing stringers and floor beams were replaced, truss members strengthened, a 7 1/2" reinforced concrete deck added. The substructure was reconstructed as required.

⑩ TOTAL BILL OF MATERIALS

ITEM	UNIT	TOTAL
EARTH EXCAVATION	CU YD	139
⑦ CHANNEL EXCAVATION	CU YD	273
STONE RIPRAP, CLASS A5	TON	618
FILTER FABRIC	SQ YD	386

- Notes:
- ① The Contractor shall field verify existing dimensions, details, and conditions affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.
 - ② Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer. Slope protection system shall be placed in a manner that does not reduce the total waterway opening.
 - ③ Grade channel bank to a slope that will provide a stable base for riprap as directed by the Engineer, cost included in Channel Excavation.
 - ④ Grade streambed so that the top of the Stone Riprap approximately matches the existing stream profile as directed by the Engineer. Filling of scour holes may be required.
 - ⑤ At the abutment face, the filter fabric shall not be lower than the top of footing.
 - ⑥ Additional excavation and reshaping of channel and bank may be required to facilitate proper placement of Stone Riprap as directed by the Engineer. Cost to be included as Channel Excavation.
 - ⑦ Channel Excavation shall include the cost of removing and disposing of existing riprap, concrete, brush, rubble, or other material as encountered.
 - ⑧ Contractor to locate existing underground utilities. Where existing underground utilities conflict with riprap placement, the Contractor shall adjust the layout as directed by the Engineer.
 - ⑨ Vertical clearance from groundline to bottom of superstructure varies between 7 and 18 feet. Actual conditions may vary.
 - ⑩ Estimated quantities. Actual quantities to be determined in the field.
 - ⑪ Under no circumstances are the bridge abutment footings to be uncovered. If footings are encountered during excavation, riprap thickness will be above footing as required to match into the existing streambed profile and as directed by the Engineer.
 - ⑫ For Sections A-A thru D-D See Sheet 4 of 4.
 - ⑬ Removal and disposal of Existing Rock/Riprap is included in the cost of Channel Excavation.
 - ⑭ If existing utility pole interferes with riprap placement, the Contractor shall adjust the layout as directed by the Engineer.



PLAN AND ELEVATION
SHIRLAND ROAD
OVER SUGAR RIVER
F.A.S. ROUTE 38
STRUCTURE NO. 101-0085



USER NAME =	DESIGNED -	REVISED
PLOT SCALE =	CHECKED -	REVISED
PLOT DATE =	DRAWN -	REVISED
	CHECKED -	REVISED

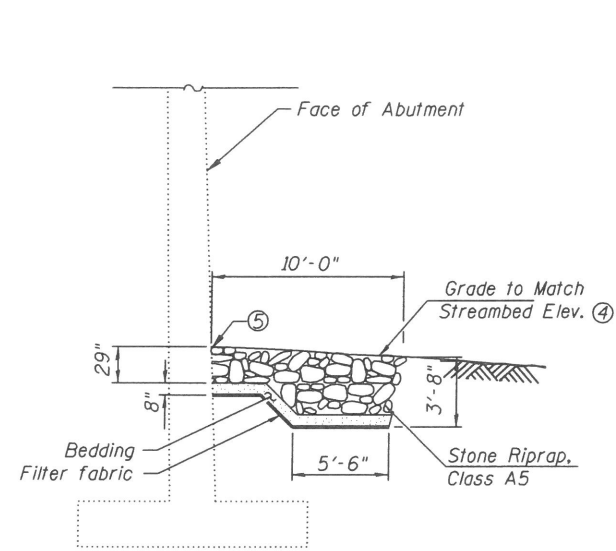
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCOUR MITIGATION
PLAN AND ELEVATION
SHEET NO. 3 OF 4

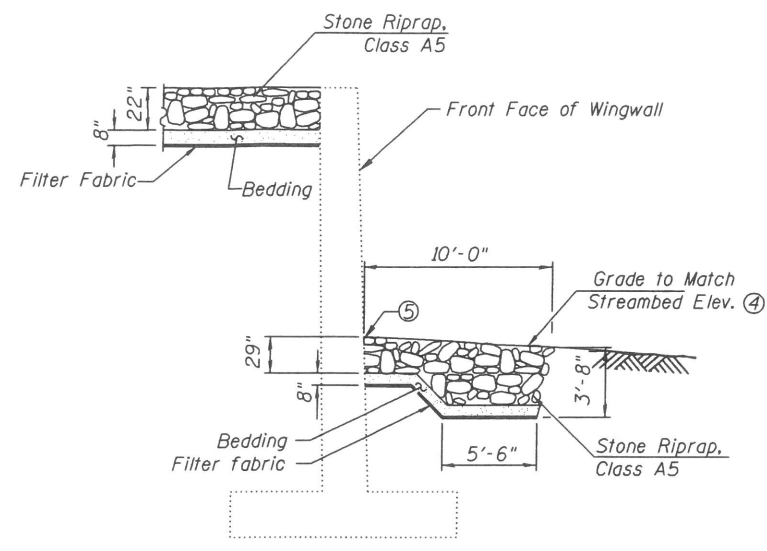
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
38	(T-1-15)DM	WINNEBAGO	4	3
CONTRACT NO. 64K78				
[ILLINOIS] FED. AID PROJECT				

Notes:

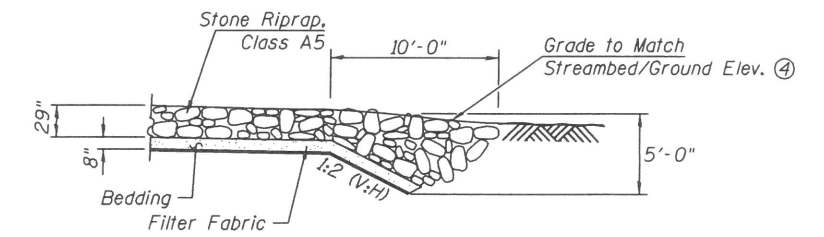
1. For locations of Sections A-A thru D-D see Sheet 3 of 4.
2. The designation (3), etc. refers to a note number. See Sheet 3 of 4 for numbered notes.
3. Excavate eroded area down to firm soil and to a slope that will provide a stable base for riprap. Excavated material may include concrete, brick, block and other loose materials as may be encountered. Set top of riprap to match into existing grade as directed by the Engineer. Depth/thickness of riprap varies with ground conditions.



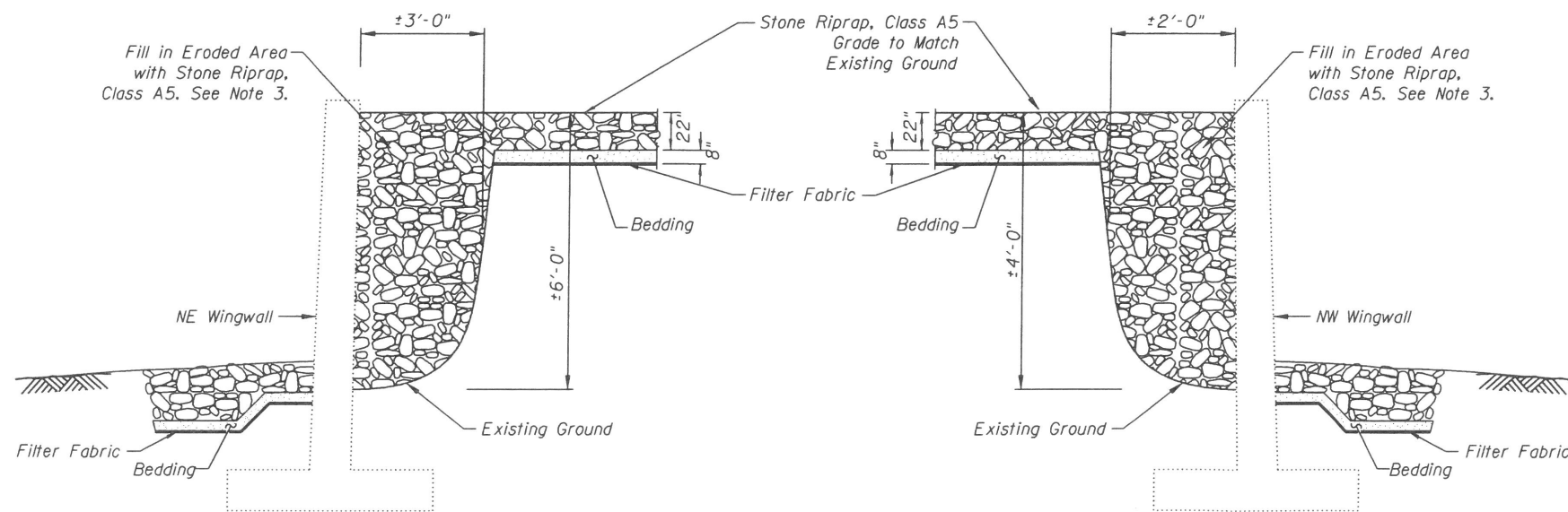
SECTION A-A



SECTION B-B

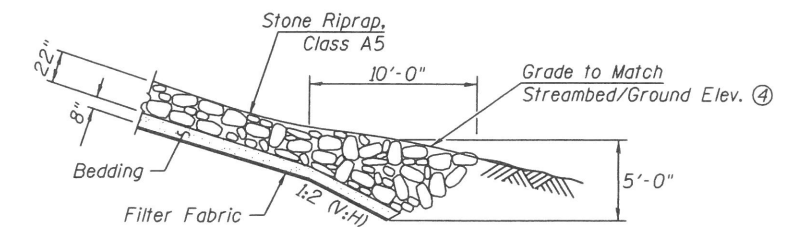


SECTION E-E



SECTION D-D THRU END OF NE WINGWALL

SECTION C-C THRU END OF NW WINGWALL



SECTION F-F

**RIPRAP DETAILS
SHIRLAND ROAD
OVER SUGAR RIVER
F.A.S. ROUTE 38
WINNEBAGO COUNTY
STRUCTURE NO. 101-0085**



USER NAME =	DESIGNED -	REVISED
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCOUR MITIGATION
RIPRAP DETAILS**

SHEET NO. 4 OF 4 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
38	(T-1-15d)M	WINNEBAGO	4	4
CONTRACT NO. 64K78				
ILLINOIS FED. AID PROJECT				