

Existing Structure:
 Single 6' x 6' box culvert built in 1940 under Section 66B-15d. The box transitions into a single 5' x 4' box culvert south. The existing box will be extended to the south and a grouted drop box constructed. One lane of traffic to be maintained at all times utilizing staged construction.

No salvage.

INDEX OF SHEETS

1. General Plan & Elevation
2. Box Culvert End Section with Drop Box
3. Box Culvert End Section with Drop Box Details
4. Traversable Steel Pipe System with Drop Box

GENERAL NOTES

1. The barrel slab and walls shall be poured monolithically with the drop box.
2. All exposed concrete edges shall be chamfered 3/4" unless otherwise noted.
3. All construction joints shall be bonded.
4. The contract unit price "Each" for Box Culvert End Sections of the culvert end section specified shall include the Concrete Box Culverts, Reinforcement Bars, Earth Excavation where required and necessary grading to fit the structures as shown, or to the slope.
5. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details 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 scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
6. This work shall be done according to the applicable portion of of 501, 503, 505, 508, 540 and 584 of the Standard Specifications.
7. Drainage holes shall conform to the requirements of Article 503.11 of the Standard Specifications.
8. A precast option will not be allowed at this site.
9. Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.
10. Expansion bolts for culvert end section shall be 3/4" ϕ hooked bolts and shall extend a minimum of 9" into new concrete.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

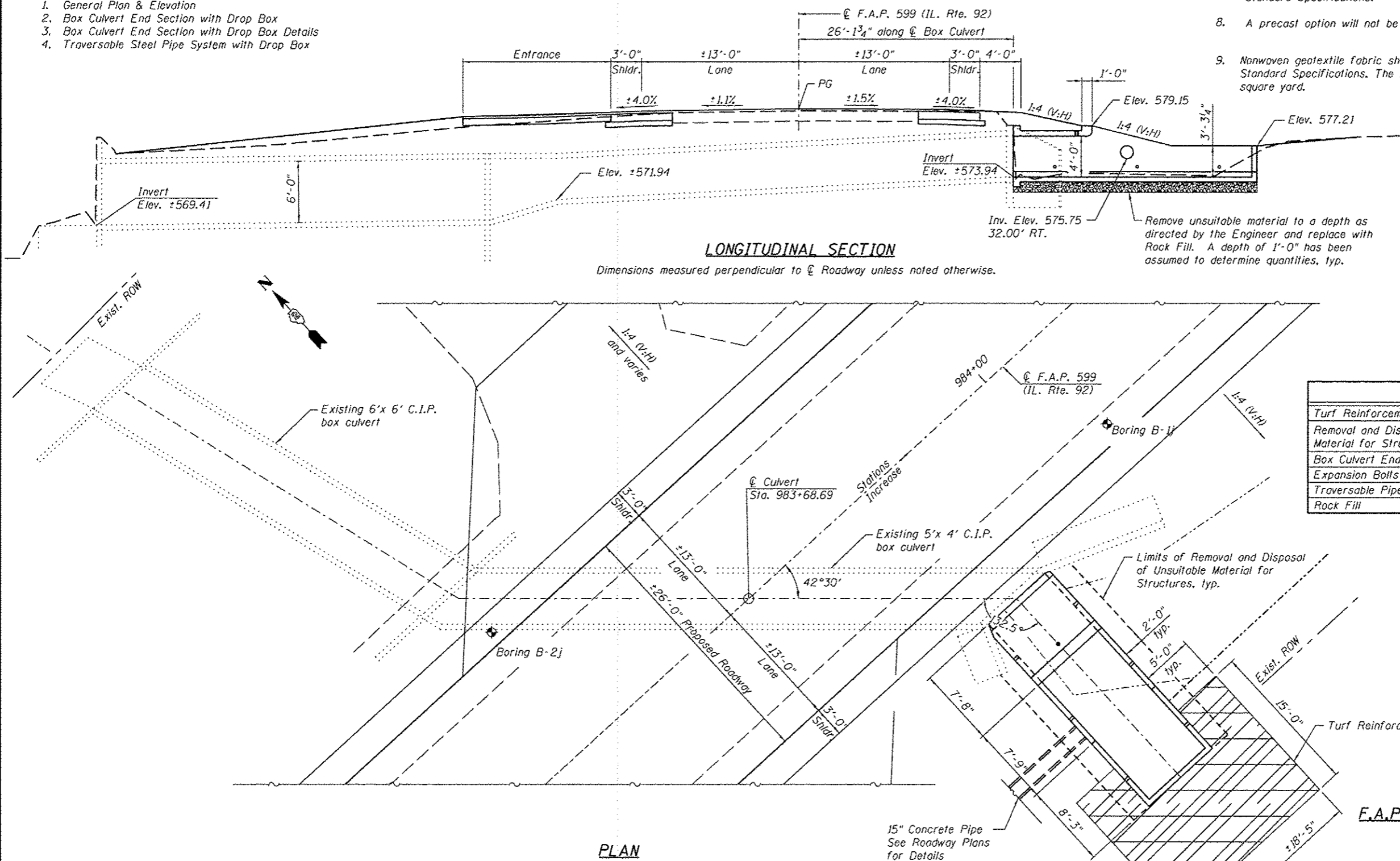
TOTAL BILL OF MATERIAL

| ITEM | UNIT | TOTAL |
|--|---------|-------|
| Turf Reinforcement Mat | Sq. Yd. | 32 |
| Removal and Disposal of Unsuitable Material for Structures | Cu. Yd. | 11 |
| Box Culvert End Sections, Culvert No. 15 | Each | 1 |
| Expansion Bolts 3/4 Inch | Each | 8 |
| Traversable Pipe Grate | Foot | 57.4 |
| Rock Fill | Ton | 20 |



Signature: *Andrew E. Underwager*
 Date: 3-13-2013
 License Expires: 11-30-2014

GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 92
F.A.P. RTE 599 - SEC. (83MFT & 103MFT)W
ROCK ISLAND COUNTY
STATION 983+68.69



LONGITUDINAL SECTION

Dimensions measured perpendicular to ϕ Roadway unless noted otherwise.

PLAN

FILE NAME: X:\Projects\2013\121228_P10_157125\cadd\Structure\103mft\13.03.2013_983+68.69\Submittal_13.03.2013_983+68.69\SAH11-081_CPE.dwg

WILLS BURKE KELSEY ASSOCIATES LTD.
 116 West Main Street, Suite 201
 St. Charles, Illinois 60174

| | | |
|-----------------------|----------------|-----------|
| USER NAME = hferaki | DESIGNED - AWH | REVISED - |
| PLOT SCALE = | CHECKED - AEU | REVISED - |
| PLOT DATE = 3/20/2013 | DRAWN - AWH | REVISED - |
| | CHECKED - AEU | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STA. 983 + 68.69
 SHEET NO. 1 OF 4 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|-------------------|-------------|--------------|-----------|
| 599 | (83MFT & 103MFT)W | ROCK ISLAND | 340 | 206 |

CONTRACT NO. 64H11
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT