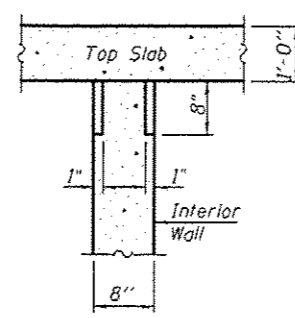
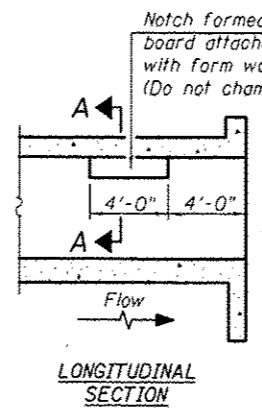
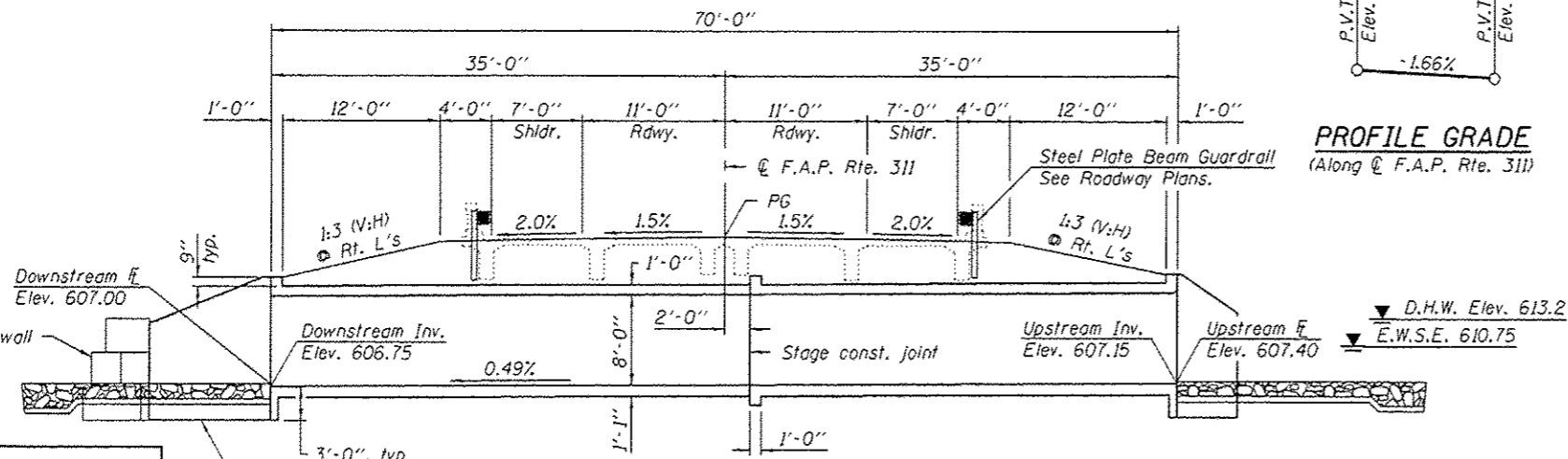


Benchmark: Chiseled "□" on southeast wingwall of S.N. 050-0065; Sta. 590+67.74, 21.06' Rt., Elev. 620.44

Existing Structure: S.N. 050-0065 built in 1947 as F.A. Route 97, Section 4B, at Sta. 590+92. The existing structure consists of a single span reinforced concrete T-girder superstructure supported on closed abutments with untreated timber piles, 34'-0" back-to-back abutments and 40'-4" out-to-out deck. The existing structure is to be removed and replaced. Traffic is to be maintained using stage construction.

No salvage.



GENERAL NOTES
 Reinforcement bars designated (E) shall be epoxy coated.
 Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
 Precast alternate not allowed.
 Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.

TOTAL BILL OF MATERIAL

| ITEM | UNIT | TOTAL |
|----------------------------------|---------|--------|
| Stone Riprap, Class A4 | Sq. Yd. | 210 |
| Filter Fabric | Sq. Yd. | 210 |
| Gabions | Cu. Yd. | 17 |
| Removal of Existing Structures | Each | 1 |
| Reinforcement Bars, Epoxy Coated | Pound | 40,590 |
| Bar Splicers | Each | 120 |
| Name Plates | Each | 1 |
| Concrete Box Culverts | Cu. Yd. | 203.6 |
| Geotextile Retaining Wall | Sq. Ft. | 78 |
| Temporary Soil Retention System | Sq. Ft. | 335 |

PHOEBE NESTING SITE DETAILS
 (Downstream End Only)

WATERWAY INFORMATION

Existing Low Grade Elev. 616.33 @ Sta. 597+00
 Proposed Low Grade Elev. 616.33 @ Sta. 597+00
 Drainage Area = 1.78 sq. mi.

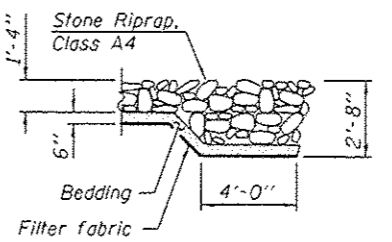
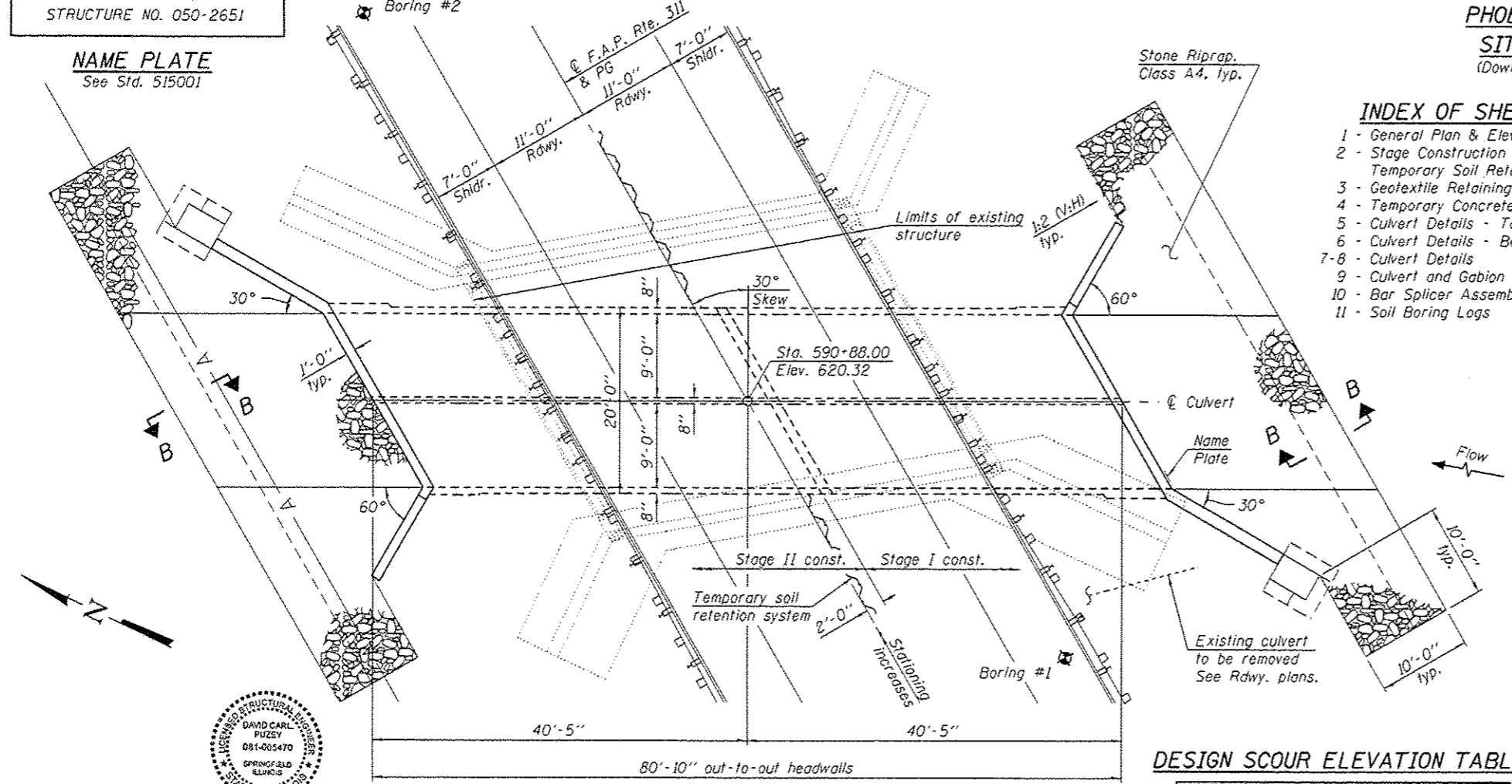
| Flood | Freq. Yr. | Q C.F.S. | Opening Sq. Ft. | | Nat. H.W.E. | Head - Ft. | | Headwater El. | |
|-------------|-----------|----------|-----------------|-------|-------------|------------|-------|---------------|-------|
| | | | Exist. | Prop. | | Exist. | Prop. | Exist. | Prop. |
| 10 | 10 | 361 | 128 | 86 | 612.2 | 0.0 | 0.0 | 612.2 | 612.2 |
| Design | 50 | 564 | 158 | 105 | 613.2 | 0.0 | 0.0 | 613.2 | 613.2 |
| Base | 100 | 647 | 169 | 111 | 613.6 | 0.0 | 0.2 | 613.6 | 613.7 |
| Overtopping | - | - | - | - | - | - | - | - | - |
| Max. Calc. | 500 | 851 | 193 | 126 | 614.4 | 0.2 | 0.7 | 614.6 | 615.1 |

Existing 10-year velocity = 2.8 ft./sec.
 Proposed 10-year velocity = 4.2 ft. / sec.

- INDEX OF SHEETS**
- 1 - General Plan & Elevation
 - 2 - Stage Construction Details and Temporary Soil Retention System
 - 3 - Geotextile Retaining Wall
 - 4 - Temporary Concrete Barrier
 - 5 - Culvert Details - Top Slab
 - 6 - Culvert Details - Bottom Slab
 - 7-8 - Culvert Details
 - 9 - Culvert and Gabion Wall Details
 - 10 - Bar Splicer Assembly Details
 - 11 - Soil Boring Logs

STATION 590+88.00
 BUILT 201 BY
 STATE OF ILLINOIS
 F.A.P. RTE 311 - SEC. (4)BR-1
 LOADING HL-93
 STRUCTURE NO. 050-2651

NAME PLATE
 See Std. 515001



DESIGN STRESSES
 FIELD UNITS
 f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)

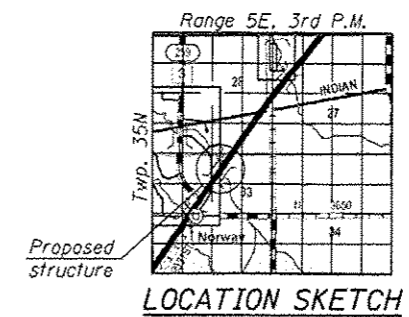
DESIGN SPECIFICATIONS
 2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

LOADING HL-93
 Allow 50#/sq. ft. for future wearing surface.

GENERAL PLAN & ELEVATION
 ILLINOIS ROUTE 71 OVER
 TRIBUTARY TO FOX RIVER
 F.A.P. RTE. 311 - SEC. (4)BR-1
 LASALLE COUNTY
 STATION 590+88.00
 STRUCTURE NO. 050-2651

DESIGN SCOUR ELEVATION TABLE

| Design Scour Elevation (ft.) | Upstream | Downstream |
|------------------------------|----------|------------|
| | 604.15 | 603.75 |



EXPIRES 11-30-2014

PLAN

| | | |
|----------|----------|-----------|
| DESIGNED | EXAMINED | DATE |
| CHECKED | PASSED | 10/1/2013 |
| DRAWN | | |
| CHECKED | | |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------|---------|--------------|-----------|
| 311 | (4)BR-1 | LASALLE | 38 | 18 |

CONTRACT NO. 66B13
 SHEET NO. 1 OF 11 SHEETS
 ILLINOIS FED. AID PROJECT