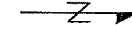


| | | | | |
|-----------------------|------------------|--------|--------------|-----------|
| ROUTE NO. | SEC. | COUNTY | TOTAL SHEETS | SHEET NO. |
| TR320 | * | SHELBY | 15 | 7 |
| FED. ROAD DIST. NO. 7 | ILLINOIS PROJECT | | | |

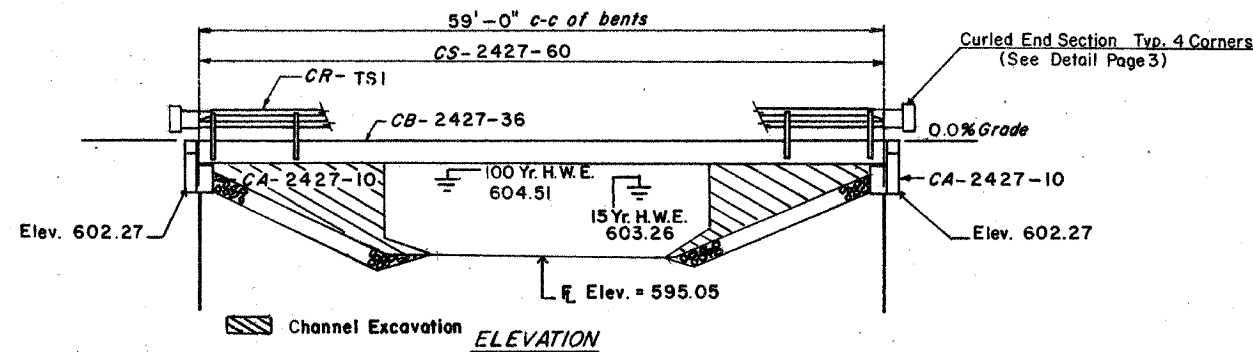
* 03-15127-00BR

B.M.- Chiseled "□", S.W. Corner of North Concrete Abutment
Elev. = 604.00



Existing Structure- 1 Span Deck Girder with Closed Concrete Abutments.
31'-0" Bk.-Bk. Abutments.
15' Face - Face Rail

Salvage - See Special Provisions

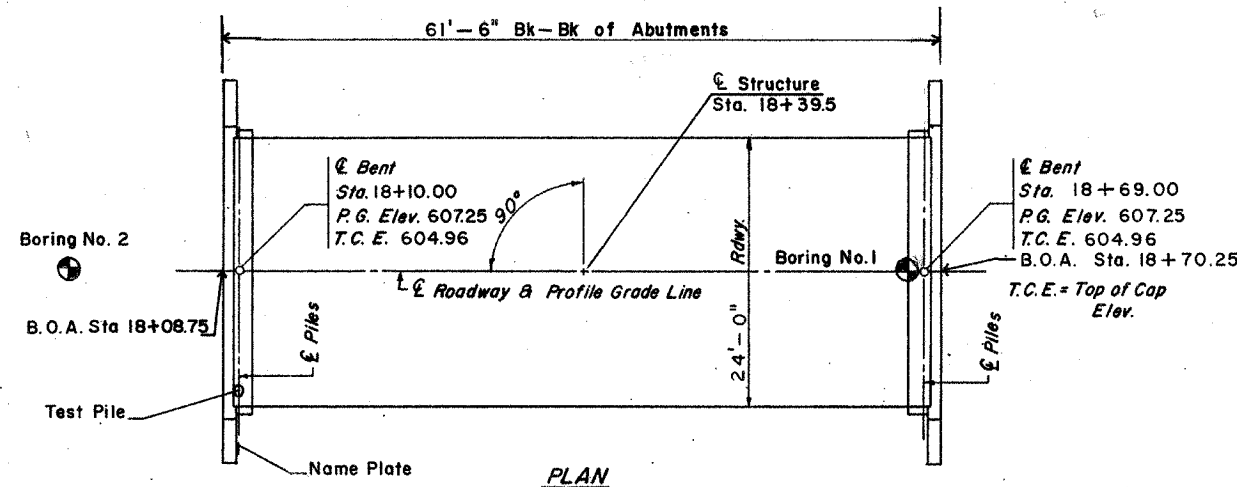


GENERAL NOTES

- The Contractor shall drive 1 test pile, as specified, in a permanent location as directed by the Engineer before ordering the remaining piles. See special provisions for boring logs.
- See special provisions for boring logs.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60 (IL Modified). See Special Provisions.
- Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

TOTAL BILL OF MATERIAL

| Item | Unit | Super | Sub | | Total |
|--------------------------------|----------|-------|-------|--------|-------|
| | | | Piers | Abuts. | |
| Removal of Existing Structure | L. Sum | | | | 1 |
| Stone Riprap, Class A4 | Tons | | | 199 | 199 |
| Filter Fabric | Sq. Yds. | | | 285 | 285 |
| Concrete Structures | Cu. Yds. | | | 18.2 | 18.2 |
| P.P. Conc. Dk. Bm. 27" Dp. | Sq. Ft. | 1440 | | | 1440 |
| Steel Rolling, Type S1 | Lin. Ft. | 120 | | | 120 |
| Reinforcement Bars | Lbs. | | | 2300 | 2300 |
| Furnishing Steel Pile HP 10X42 | Lin. Ft. | | | 175 | 175 |
| Driving Piles | Lin. Ft. | | | 175 | 175 |
| Test Pile | Each | | | 1 | 1 |
| Name Plates | Each | 1 | | | 1 |
| Concrete Encasement | Cu. Yds. | | | 2.1 | 2.1 |
| Structure Excavation | Cu. Yds. | | | 39 | 39 |
| Channel Excavation | Cu. Yds. | | | 172 | 172 |

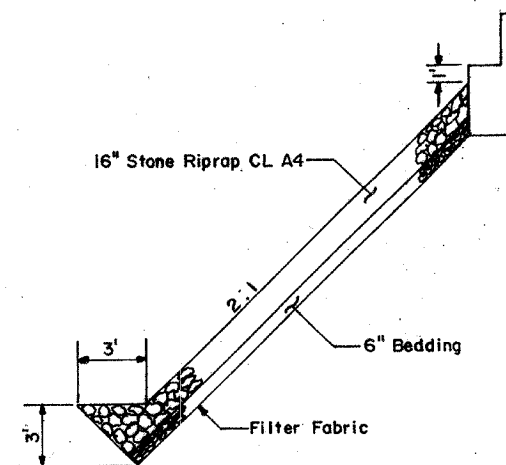


INDEX OF SHEETS

- General Plan & Elevation
- Standard CS-2427-60
- Standard CB-2427-36
- Standard CB-2427-48
- Standard CA-2427-10
- Standard CR-TS1
- Standard CN
- Standard CX-1
- Standard

These plans were prepared by me or by a full-time member of my staff working under my personal supervision.

S. Alan Spesard
County Engineer
Licensed Professional Engineer
of Illinois
Nu. 062-052065
Expiration Date: 11-30-09



RIPRAP DETAIL

ABUTMENT PILE DATA

| | N. ABUTMENT | S. ABUTMENT |
|---------------------------------|----------------|----------------|
| PILE TYPE & SIZE: | Steel HP 10X42 | Steel HP 10X42 |
| NOMINAL REQUIRED BEARING: | 336 kips | 336 kips |
| ALLOWABLE RESISTANCE AVAILABLE: | 112 kips | 112 kips |
| ESTIMATED PILE LENGTH: | 25 Ft. | 25 Ft. |
| NUMBER OF PRODUCTION PILES: | 3 | 4 |
| NUMBER OF TEST PILES: | 1 | 0 |

NOTES:

- The Steel H-Piles shall be according to A.A.S.H.T.O. M270 Grade 50.
- The Test Pile shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.

DESIGN SPECIFICATIONS

2002 A.A.S.H.T.O. STANDARD SPECIFICATIONS, 17th EDITION

LOADING HS 20-44

Allow 50#/sq. ft. for Future Wearing Surface

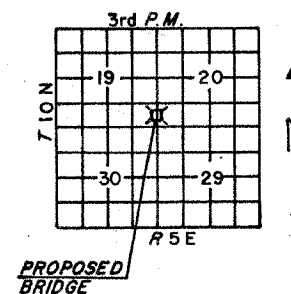
SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 6% g
Site Coefficient (S) = 1.0

STATION 18+39.5
BRUSH CREEK
SEC. 03-15127-00-BR BUILT 200...
PRAIRIE ROAD DISTRICT
SHELBY COUNTY
LOADING HS20 TR 320
STR. NO. 087-3542

LETTERING FOR NAME PLATE

Locate Name Plate at S. E.
Corner of Bridge (See Std. CN)



LOCATION SKETCH

WATERWAY INFORMATION

| Drainage Area = 5.7 Sq. Mi. | | Low Grade Elev. = 604.81 | | At Sta. 18+39.50 | | | |
|-----------------------------|-----------|--------------------------|-----------------|------------------|-----------------|---------------------|---------------------|
| Flood | Freq. Yr. | Q C.F.S. | Opening Sq. Ft. | Natural H.W.E. | Head-Ft. Exist. | Headwater El. Prop. | Headwater El. Prop. |
| Design | 15 | 1203 | 175.27 | 210.68 | 603.26 | | |
| Base | 100 | 1921 | 218.34 | 276.54 | 604.51 | 0.96 | 0.89 |
| Overtopping | | | | | | | |
| Max. Calc. | 500 | 2512 | | | | | |

GENERAL PLAN & ELEVATION

TR ROUTE 320
OVER Brush Creek

SECTION 03-15127-00-BR

SHELBY COUNTY

STATION 18+39.5