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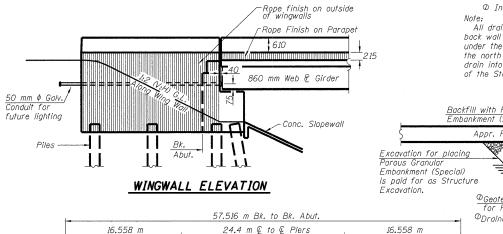
DGM/ADL

W/ W

CHECKED

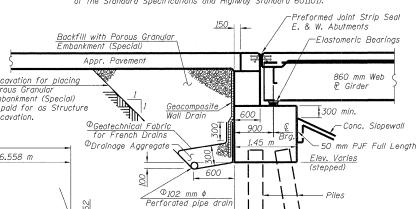
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DRAWN



① Included in the cost of Pipe Underdrains for Structures,

All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls. The pipe shall extend under the south wingwall to SN 060-0311. The pipe shall also extend under the north wingwall until intersecting the north side slopes. The pipes shall drain into a concrete headwall on north side slope. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

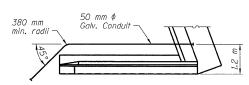


SECTION THRU ABUTMENT

(Horiz. Dim. at Rt. L's, unless noted)

SHEETS SHEET NO. 2 MADISON 149 33 36 SHEETS FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PR

* 60-15VB-1 & 2 Contract #76634



50 mm ¢ Galv. Conduit shall be Sch. 40 pipe. Extend to clear wingwall at a point outside of the shoulder.
Cost included with "Concrete Superstructures"
See Sheet #1 of 36 for locations.

PARTIAL PLAN OF ABUTMENT

(Showing Electrical Conduit)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Furnishing and Erecting Structural Steel	Lump Sum	0.5		0.5
Stud Shear Connectors	Each	6,183		6,183
Test Pile Metal Shells	Each		2	2
Name Plates	Each	1		1
Pipe Underdrains for structures, 100 mm	Meter		71.1	71.1
Geocomposite Wall Drain	m2		98	98
Concrete Encasement	m3		13.6	13.6
Anchor Bolts, M24	Each		36	36
Anchor Bolts, M36	Each		36	36
Porous Granular Embankment (Special)	m3		181	181
Stone Riprap, Class A3	m2		92	92
Filter Fabric	m2		92	92
Protective Coat	m2	1,339		1,339
Structure Excavation	m3		981	981
Elastomeric Bearing Assembly, Type 1	Each	27		27
Concrete Structures .	m3		626.8	626.8
Concrete Superstructure	m3	307.2		307.2
Bridge Deck Grooving	m2	1,181		1,181
Reinforcement Bars, Epoxy Coated	kg	52,310	34,260	86,57
Bar Splicers	Each		150	150
Furnishing Metal Shell Piles 356mmX6.35mm	Meter		1,801.0	1,801.
Driving Piles	Meter		1,801.0	1,801.
Concrete Sealer	m2		149	149
Slopewall 100 mm	m2		1,081	1,081
Form Liner Textured Surface	m2	24	62	86
Temporary Sheet Piling	m2		767	767
Preformed Joint Strip Seal	Meter	46.0		46.0

*** For Quantity North of Local Tangent to $\ \ \ \ \ \ \ \$ FAP 310 at Sta. 39+157.48.

STATION 39+160.297 BUILT 200_ BY STATE OF ILLINOIS F.A.P. RT. 310 SEC. 60-15VB-1&2 LOADING MS18 STR. NO. 060-0310

> NAME PLATE See Std. 515001

TOTAL BILL OF MATERIALS. GENERAL NOTES AND DETAILS FAP RTE 310 (IL RTE 255) NB & RAMP C OVER UNION PACIFIC & KANSAS CITY SOUTHERN R.R. SECTION 60-15VB-1 & 2 MADISON COUNTY STATION 39+160.297 STRUCTURE NUMBER 060-0310

GENERAL NOTES

OFFSET SKETCH

17,234 m

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts M22, open holes 24 mm ϕ , unless otherwise noted.

Calculated mass of Structural Steel = 124,010 kg (M270M Grade 345) 15,630 kg (M270M Grade 250)

Pier #1
 ↑

7.166 m

Skew (typ)

-Local Tangent to

Grade at

N.B. Lanes

132 Bk. E. Abut. N.B. Lane Profile

Sta. 39+157.48 -Profile Grade Line

The inorganic zinc rich primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior surfaces shall be gray, Munsell No. 58 7/1. The color of the finish for the exterior and bottom flange of the fascia girders shall be Reddish Brown, Munsell No. 2.5 YR 3/4. See Special Provisions for "Cleaning and Painting New Metal Structures".

€ Pier #2_\

Bk. W. Abut.

The structural steel bearing plates of the Elastomeric Bearing Assemblies shall conform to the requirements of AASHTO M 270M Grade 345.

Slope wall shall be reinforced with welded wire fabric, 152 x 152-MW25.8 x MW25.8 with a mass of 2.91 kg/m².

The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments. Pile driving at the abutments will NOT be allowed until two (2) months after the

The contractor shall drive one (1) metal shell test pile in a permanent location at the East Abutment and at Pier #2 as directed by the Engineer before ordering the remainder of piles.

Concrete Sealer shall be applied to designated seat areas of the abutments.

The elevations of the existing top-of-rail profiles shall be verified prior to beginning construction.

All dimensions are in millimeters (mm) except as noted.

All structural steel shall be AASHTO M 270M Grade 345 unless noted otherwise.

No field welding is permitted except as specified in the contract documents.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 400. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

Bearing seat surfaces shall be constructed or adjusted to their designated elevations within a tolerance of 3 mm. Adjustment shall be made either by grinding the surface or by shimming the bearings.

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.

All diaphraams shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

Two 3 mm adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details,

Piles shall be driven through 380 mm diameter precored holes extending to elevation 185.5 at East Abutment & Elevation 184.5 at West Abutment according to Article 512.09(c) of the Standard Specifications. Cost included in driving piles.

If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

Slip forming of parapets will not be allowed.

Klinaner & Assoc., P.C.