

Station 1281+52.63
Sta. 1281+52.63 Elev 669.82

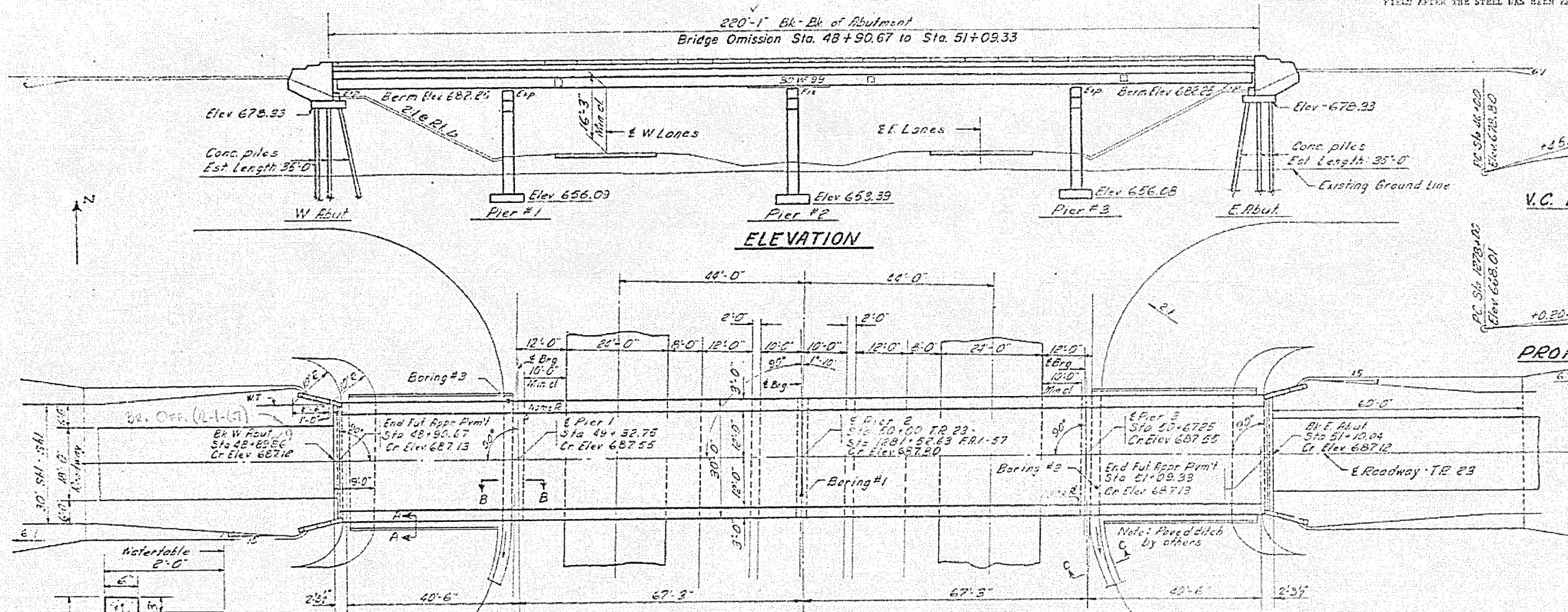
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL
15-25	COLES	23	1	10 SHEETS

STUD SPAN CONNECTIONS ON THE BEAM PLANS SHALL BE PLACED IN THE FIELD AFTER THE STEEL WAS BEEN ERECTED AND THE DECK FORMS ARE IN PLACE.

GENERAL NOTES

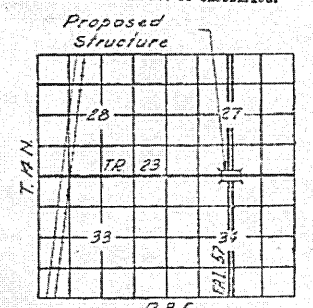
Course aggregate to be used in end post parapet must be absolutely free of chert, flint, lignite and soft sandstone. The concrete floor slab shall be finished in accordance with Article 519 of the Standard Specifications. Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 58# per 100 sq. ft. All reinforcement bars shall be lapped 20 diameters unless otherwise shown. Permanent forms will not be permitted in forming concrete floor. Rivets 3/4" open holes 1 1/2" unless otherwise noted. Anchor bolts shall be set before riveting diaphragms over supports. The exposed surfaces of the expansion guard shall be given two shop coats of red lead paint the contact surfaces shall be given one coat of red lead paint. Anchor studs shall not be painted. Expansion guards are included in quantity of structural steel. Est weight 660 lbs. Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Article 54.1 to 54.5 inclusive of the standard specifications. The contractor shall drive one concrete test pile in a permanent location at West abutment as directed by the Engineer before ordering the remainder of the piles. Concrete piles at abutments shall be driven in holes precast through the embankment in accordance with Article 60.9(c) of the standard specifications. Excavation for portions of structures in the embankment shall not be classified.



V.C. DATA - T.R. 23

PROFILE - F.A.I. 57

STATION 1281+52.63
BUILT 196 BY
STATE OF ILLINOIS
F.A.I. RT 57 - SEC. 15-25 HB
FA. PROJ. I-57-5(11)
LOADING H-15
LETTERING FOR NAME R
See Std. 2113-1



LOCATION PLAN

TOTAL BILL OF MATERIALS

Item	Unit	Sup	Sub	Total
Class A Excavation for Structure	Cu Yds		230	230
Class X Concrete	Cu Yds	228.6	224.3	452.9
Structural Steel	Lbs	135,900		135,900
Aluminum Handrail	Lin Ft	434		434
Reinforcement Bars	Lbs	41,270	15,850	57,120
Concrete Piles	Lin Ft		735	735
Test Pile (Concrete)	Each		1	1
Name Plates	Each		2	2
Slope Wall 4"	Sq Yds		360	360
Protective Coat	Sq Yds	820		820

NOTE: For earthwork quantities see sheet 5
LOCATION 2: 015-0045

DESIGN STRESSES

$f_c = 1400$ psi. Super & Sub
 $f_s = 75$ psi. Figs.
 $f_s = 20,000$ psi. Reint.
 $f_s = 20,000$ psi. Struct.
 $n = 10$
Max. soil pressure under Figs. 4' 7 1/2"
4' Deflection 1/200 non-composite
1/200 composite
LOADING H-15-44

GENERAL PLAN & ELEVATION

PROJ. I-57-5(71) 199
T.R. 23 OVER F.A.I. RT. 57
F.A.I. RT. 57 - SEC. 15-25 HB
COLES COUNTY
STA. 1281+52.63

DESIGNED J. M. Tzannatos
CHECKED N. R. F.
DRAWN T. B. Fuller
CHECKED N. R. F.

EXAMINED M. R. 7 1923
PASSED
APPROVED

Qu - Unconfined Compressive Strength - 1/2" w. water Content - percent age of oven dry weight - %
Type failure: 6 - Bulge failure 5 - Shear failure 6 - Estimated value F - Flow failure

Boring No. 1 Station 1281+43	Elev	N	Remarks	W (%)
Ground Surface 662.0			Medium black organic clay (top soil mixture)	
660.3			Stiff gray brown mottled silty clay	
657.5			Hard brown mottled clay	
654.8			Hard brown mottled clay loam fill with olive inclusions (Gravelly)	
652.5			Very stiff brown mottled clay loam fill (Gravelly)	
650.0			Hard gray clay loam fill with olive inclusions (Gravelly)	
648.0			Hard gray clay loam fill with olive inclusions (Gravelly)	
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642.0			Hard gray clay loam fill with olive inclusions (Gravelly)	
640.0			Hard gray clay loam fill with olive inclusions (Gravelly)	

Boring No. 2 Station 1281+45 Offset 70' Right	Elev	N	Remarks	W (%)
Ground Surface 662.0			Medium black organic clay (top soil mixture)	
659.0			Very stiff sandy clay fill (Gravelly)	
657.0			Stiff brown gray mottled clay	
655.0			Hard gray clay loam fill with olive inclusions (Gravelly)	
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643.0			Hard gray clay loam fill with olive inclusions (Gravelly)	
641.0			Hard gray clay loam fill with olive inclusions (Gravelly)	
639.0			Hard gray clay loam fill with olive inclusions (Gravelly)	

Boring No. 3 Station 1281+67 Offset 70' Left	Elev	N	Remarks	W (%)
Ground Surface 662.0			Medium dark gray clay (top soil mixture)	
660.1			Stiff brown gray mottled clay	
658.1			Hard gray clay loam fill with olive inclusions (Gravelly)	
656.1			Hard gray clay loam fill with olive inclusions (Gravelly)	
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Rev. 5-11-66 J.R.H. Changed Class X Concrete from 199.5 Cu Yds. to 208.6 Cu Yds. & Total Class X Conc. from 422.2 cu yds. to 438.9 Cu Yds.