

Bench Mark: BM #16 Chiseled "□" S.W. abut. S.N. 068-0028. Elev. 561.26

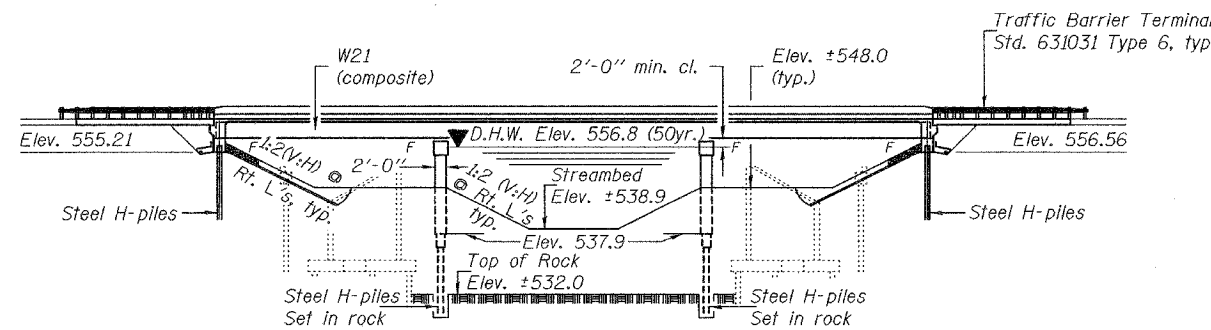
Existing Structure: S.N. 068-0028 Built ±1930. Superstructure replaced 1968 as F.A. Rte. 140, Sec. 10BR at Sta. 498+37.00. Structure consists of single span PPC deck beam superstructure on pile supported closed abutments with PPC deck beam approach spans. 131'-8 1/2" Bk.-Bk. appr. bents. 46'-6" O.-O. deck. Structure to be removed and replaced using stage construction.

No salvage

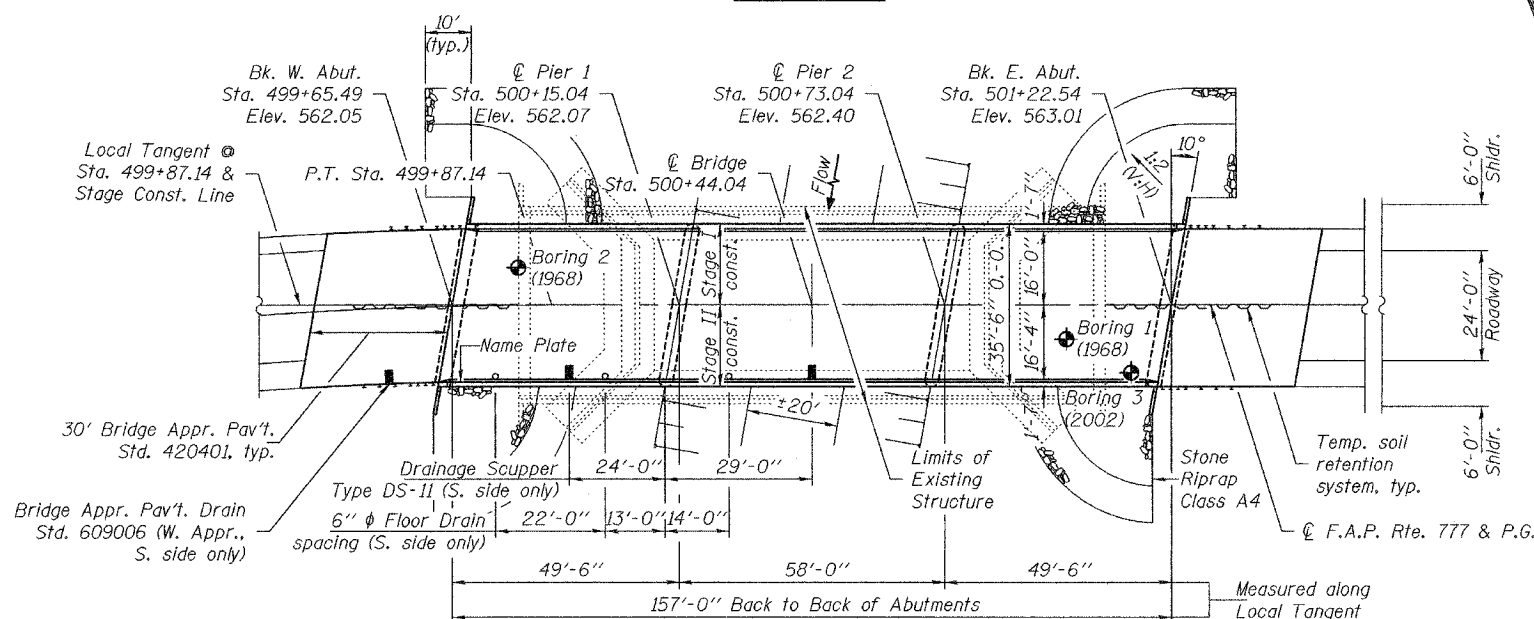
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	FEET	SHEET NO.	SHEET NO. 1
FAP 777	10B-1	MONTGOMERY	104	53	23 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

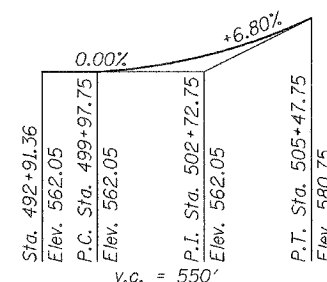
Contract #92667



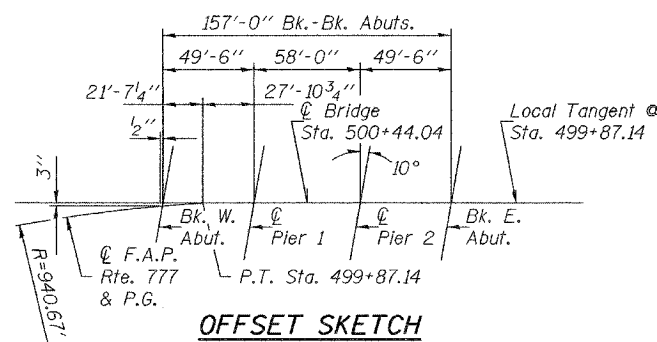
ELEVATION



PLAN



PROFILE GRADE
(along centerline of roadway)



OFFSET SKETCH

WATERWAY INFORMATION

Drainage Area = 77.1 sq. mi. Low Grade Elev. 560.40 @ Sta. 424+00							
Flood Yr.	Q C.F.S.	Opening Exist.	Opening Prop.	Nat. H.W.E.	Head - Ft. Exist. Prop.	Headwater El. Exist. Prop.	
Design	50	7710	1042	1420	556.8	1.6 0.7	558.4 557.5
Base	100	8770	1075	1462	557.1	1.9 0.9	559.0 558.0
Overtopping	-	-	-	-	-	-	-
Max. Calc.	500	11,300	1162	1573	557.9	2.5 1.2	560.4 559.1

LOADING HS20-44

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

1996 AASHTO with 1997 thru 2002 Interims

DESIGN STRESSES

FIELD UNITS

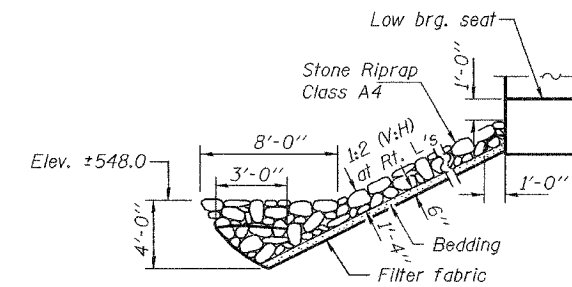
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)
 $f_y = 50,000$ psi (AASHTO M270 Grade 50W)

SEISMIC DATA

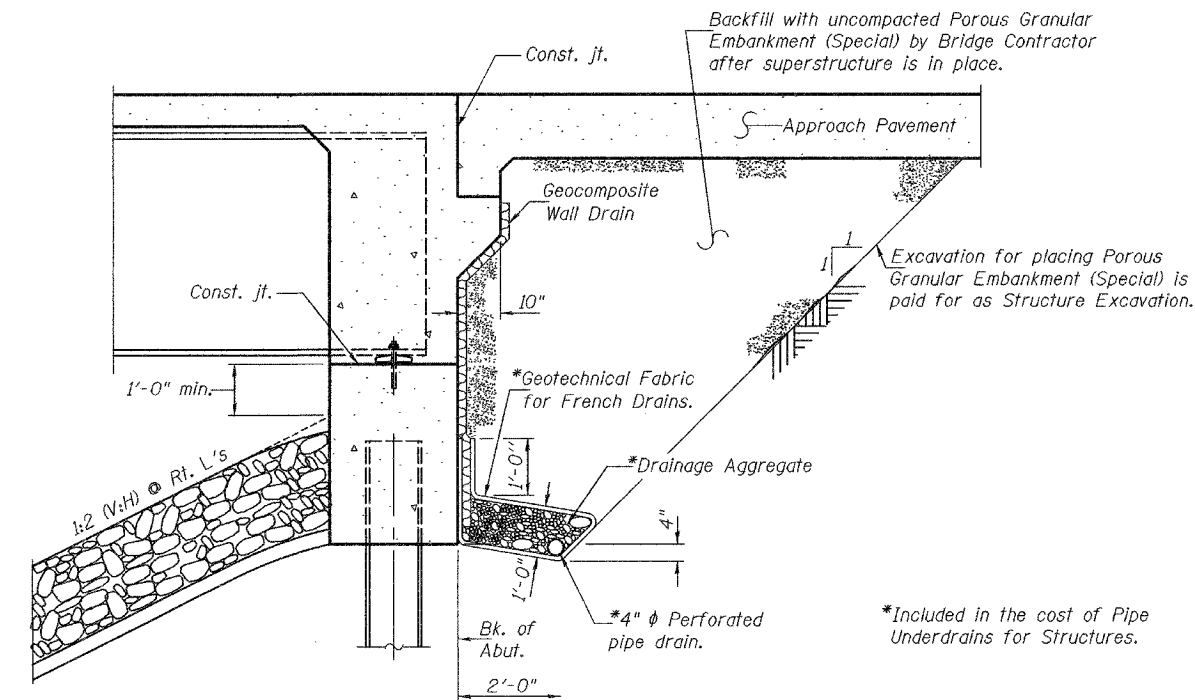
Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 7.3%
 Site Coefficient (S) = 1.0

CURVE DATA

@ F.A.P. Rte. 777
 P.I. Sta. = 497+91.17
 $\Delta = 24^\circ-14'-26''$
 $D = 6^\circ-05'-27''$
 $R = 940.67'$
 $T = 202.01'$
 $L = 397.98'$
 $E = 21.45'$
 $S.E. = 6.0\%$
 P.C. Sta. = 495+89.16
 P.T. Sta. = 499+87.14
 S.E. Removed Sta. 499+26.42 to Sta. 501+56.42



STONE RIPRAP ANCHOR DETAIL



SECTION THRU INTEGRAL ABUTMENT

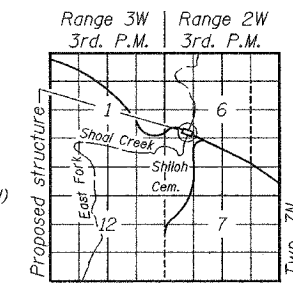
Notes: Cap end of 4" ϕ perforated pipe drain at stage construction line. Set pipes to drain away from stage construction line in each direction. All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Art. 601.05 of the Std. Spec's. and Highway Std. 601101.)

DESIGNED	David F. Brunson
CHECKED	Stephen R. Ryan
DRAWN	R. Doty
CHECKED	Dr. J. S. R.

February 3, 2006
 EXAMINED Thomas J. Donaghy
 PASSED Robert E. Odum



Expires 11-30-06



LOCATION SKETCH

GENERAL PLAN & ELEVATION
 ILLINOIS ROUTE 185 OVER
 EAST FORK OF SHOAL CREEK
 F.A.P. ROUTE 777- SECTION 10B-1
 MONTGOMERY COUNTY
 STATION 500+44.04
 STRUCTURE NO. 068-0505