

B.M. #47: Chiseled "L" on parapet at S.W. corner of bridge, S.N. 072-0039, Gate Ave. over I-74. Elev. 180.151

Existing Structure: The existing culvert (S.N. 072-2005) is a two-barrel reinforced concrete box culvert with an attached reinforced concrete flume. They were built as F.A.I. Rte 74, Sec. 12-1-HB-1 in 1965.

A North MSE retaining wall will be built to retain Ramp C-3 in areas where there is no existing or new culvert extension. The MSE wall will be built in conjunction with a new extension to the existing box culvert.

Traffic will be closed on Ramp C-3 during construction.

Sta. 10+300.000 Ramp C-3 = Sta. 145+800.450 W.R. F.A.I. 74

Note: All stationing is on Ramp C-3 baseline unless otherwise noted.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

POLICE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	72-7R-3	PEORIA	1360	1039
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

Contract No. 68200

TABLE OF ELEVATIONS

Station @ Ramp C-3	Offset Left of h (m)	Finish Grade Elev. At Front Face Of Wall	Elev. At Bottom Of Coping/T.O. Exp. CIP Face	Elevation At Bottom Of Wall
10+442.153	6.5	167.45	171.22	165.20
10+450.000	6.5	168.25	174.52	165.20
10+460.900	6.5	168.75	174.90	165.20
10+470.000	6.5	169.48	175.26	165.73
10+480.000	6.5	170.25	175.60	166.30
10+490.000	6.5	171.68	175.98	166.87
10+500.000	6.5	172.00	176.36	167.44
10+510.000	6.5	173.00	176.73	168.01
10+520.000	6.5	174.00	177.12	168.58
10+530.000	6.5	175.21	177.49	169.15
10+540.000	6.5	176.05	177.87	169.72
10+550.000	6.5	176.85	178.25	170.29
10+560.000	6.83	177.66	178.61	170.86
10+570.000	7.34	178.48	178.98	171.43
10+575.000	7.59	178.99	179.16	171.72

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

FIELD UNITS

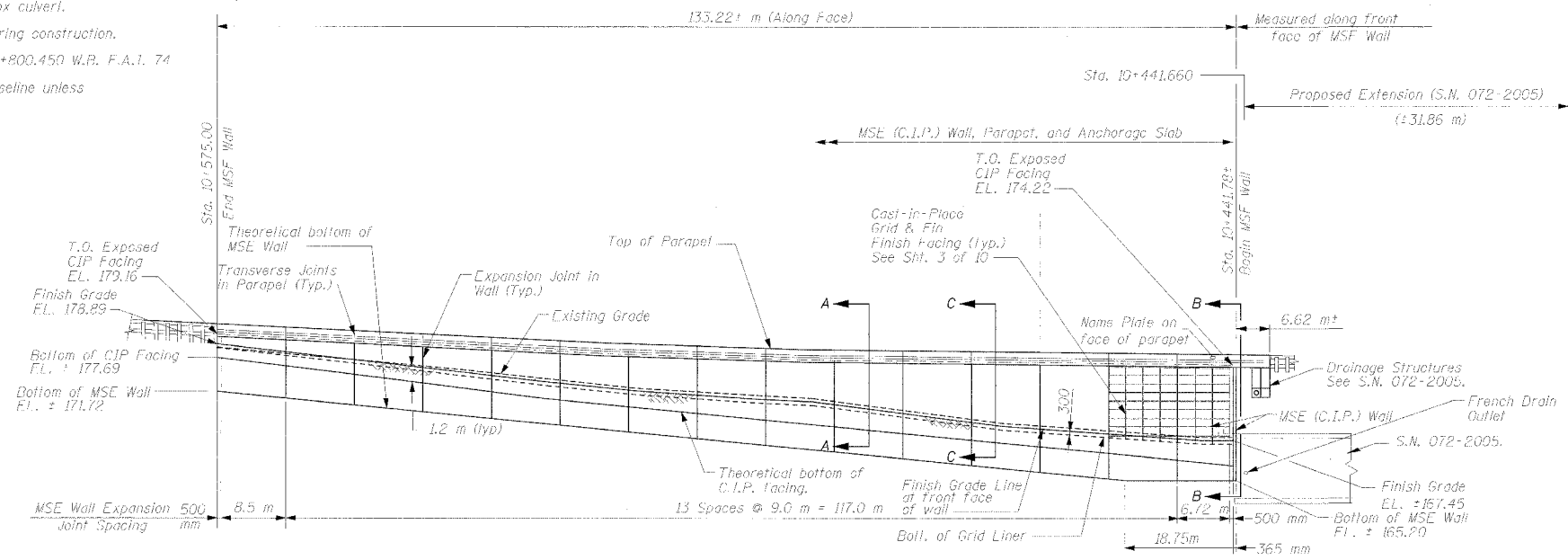
NEW CONSTRUCTION

$f'_c = 24 \text{ MPa}$  (28 day) Conc.  
 $f_y = 400 \text{ MPa}$  (Reinf.)

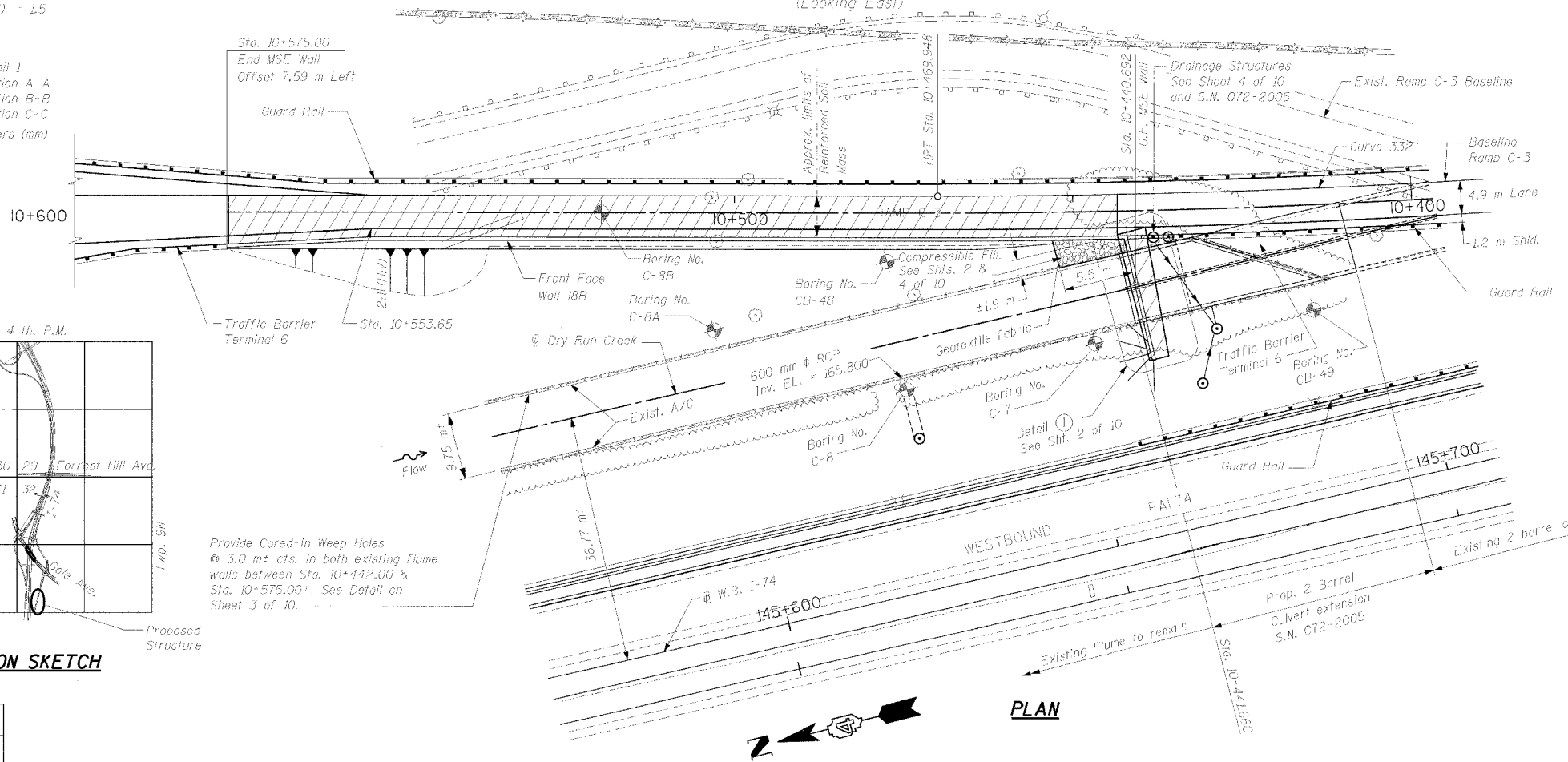
SEISMIC DATA

Seismic Performance Category (SPC) = A  
Bedrock Acceleration Coefficient (A) = 0.043 g  
Site Coefficient (S) = L5

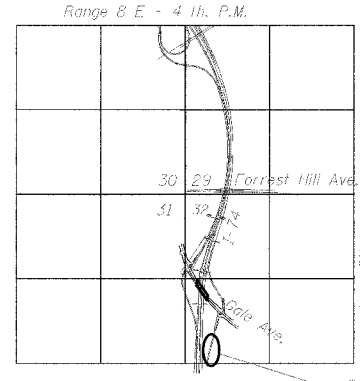
See Sheet #2 of 10 for Detail 1  
See Sheet #3 of 10 for Section A-A  
See Sheet #4 of 10 for Section B-B  
See Sheet #5 of 10 for Section C-C  
All dimensions are in millimeters (mm) unless noted otherwise.



ELEVATION OF NORTH MSE RETAINING WALL  
(Looking East)



PLAN



LOCATION SKETCH

DESIGNED	GEK
CHECKED	
DRAWN	GEK
CHECKED	



Gerald E. Koylass, S.E.  
ILLINOIS LICENSED STRUCTURAL ENGINEER No. 5264  
EXP. DATE: NOVEMBER 30, 2006  
Date: 1/27/05

PLAN & ELEVATION OF NORTH MSE WALL  
RAMP C-3 OVER DRY RUN CREEK  
F.A.I. RTE 74(I-74) SECTION (72-7)R-3  
PEORIA COUNTY  
STA. 10+442.15 TO STA. 10+575 (RAMP C-3)  
STRUCTURE NUMBER 072-8618 - WALL 18B

**CE**  
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