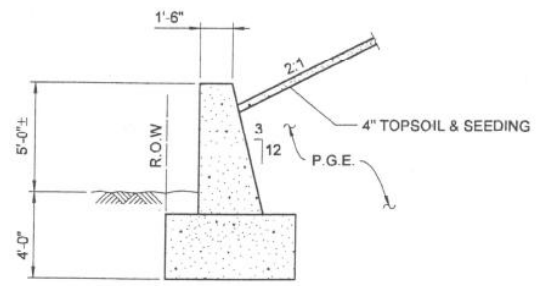


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

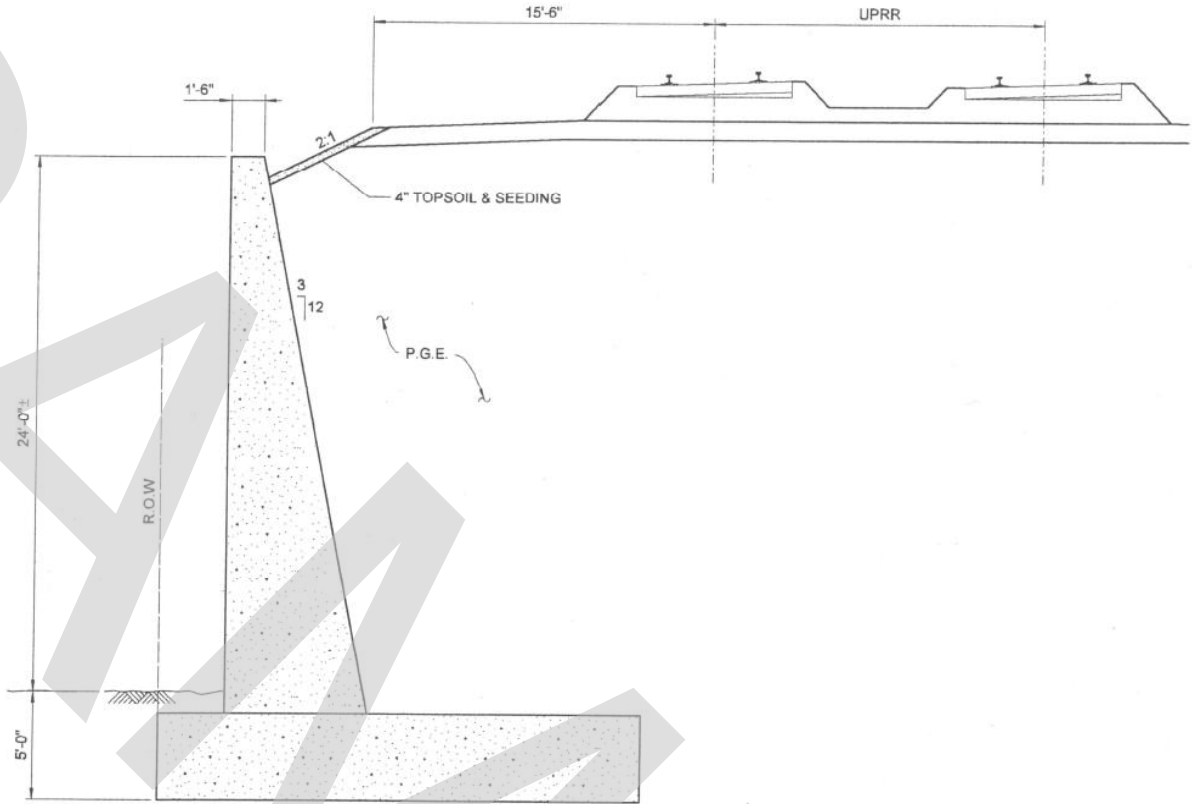
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. \_\_\_\_\_  
SHEETS \_\_\_\_\_

**BENCH MARK**  
CP #1001, IRON ROD WITH YELLOW CAP  
STA 214+75.74 85.12' LT.  
N = 1,924,028.25  
E = 1,097,992.26  
ELEV = 659.72



**SECTION A-A**  
SCALE: 1/4" = 1'-0"



**SECTION B-B**  
SCALE: 1/4" = 1'-0"

**SPECIFICATIONS**

CONCRETE DESIGN IN ACCORDANCE WITH AREMA CHAPTER 8 CONCRETE STRUCTURES AND FOUNDATIONS, MANUAL FOR RAILWAY ENGINEERING, DATED 2003, AS MODIFIED BY THE UNION PACIFIC RAILROAD. WORKMANSHIP AND MATERIALS IN ACCORDANCE WITH THE AREMA AND UNION PACIFIC RAILROAD SPECIFICATIONS, AS WELL AS THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION, ADOPTED JANUARY 1, 2002, AND CURRENT IDOT SUPPLEMENTAL SPECIFICATION, RECURRING SPECIAL PROVISIONS, AND INTERIM SPECIAL PROVISIONS.

**DESIGN DATA**

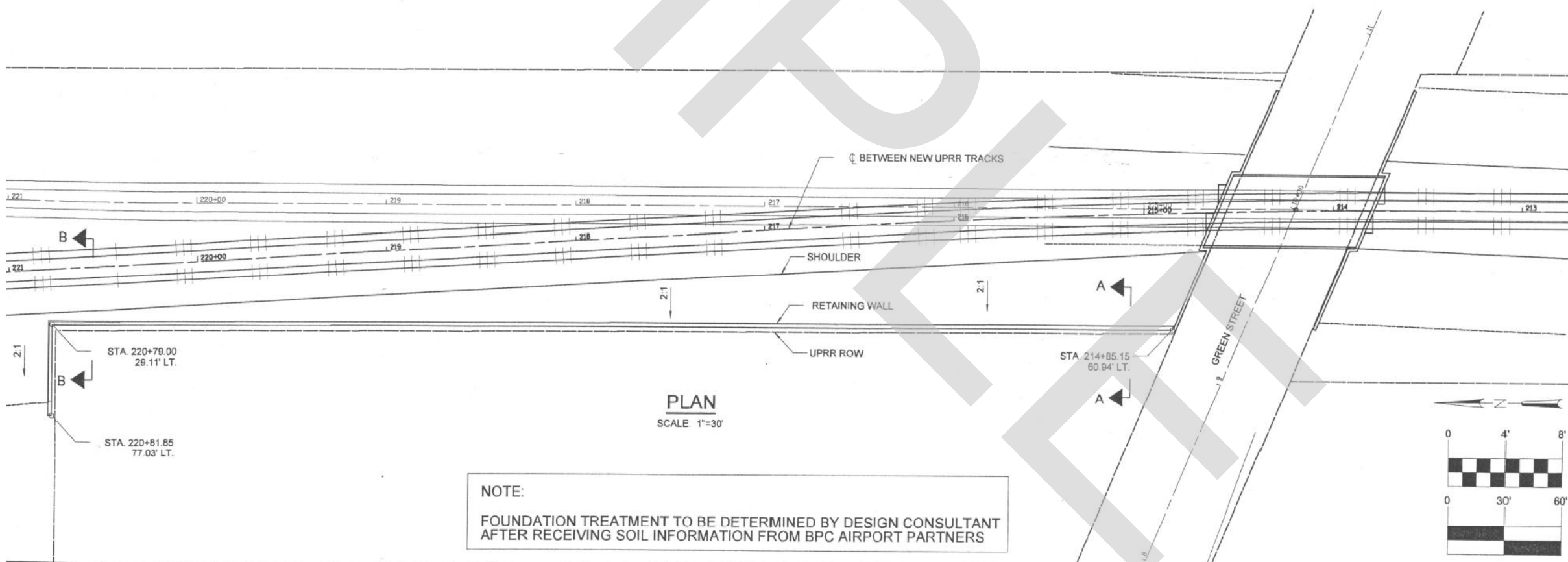
**LIVE LOAD**  
COOPER E-80

**ALLOWABLE STRESSES**

$f_s$  (TENSION) REINFORCING BARS A615, (GRADE 60) = 24,000 PSI  
 $f_c$  (COMPRESSION STRENGTH) CONCRETE AT 14 DAYS = 3,500 PSI  
 $f_c$  (COMPRESSION STRENGTH IN FLEXURE) = 1,400 PSI  
 $V_c$  (SHEAR IN FOOTINGS) CONCRETE = 60 PSI

**CURVE DATA**

SPIRAL & CIRCULAR CURVE RRPUP01  
 PI STA = 214+82.79  
 PI = N 1,924,040.90 E 1,098,078.12  
 $\Delta$  = 2°31'31" LT  
 D = 1°00'00"  
 R = 5,729.65'  
 T = 126.28'  
 L = 252.52'  
 E = 1.30'  
 DESIGN SPEED = 50 MPH  
 S.E. = 0.75'  
 Ls = 82  
 SC STA = 231+56.50  
 SC = N 1,923,914.74 E 1,098,083.73  
 CS STA = 216+09.03  
 CS = N 1,924,166.69 E 1,098,066.96



**PLAN**  
SCALE: 1" = 30'

**NOTE:**  
FOUNDATION TREATMENT TO BE DETERMINED BY DESIGN CONSULTANT AFTER RECEIVING SOIL INFORMATION FROM BPC AIRPORT PARTNERS

DESIGNED	-
CHECKED	-
DRAWN	-
CHECKED	-

