## POTENTIAL UNDERCUT

"POROUS GRANULAR EMBANKMENT, SUBGRADE" (PGES) HAS BEEN RECOMMENDED FOR USE AT THE LOCATIONS INDICATED BELOW FOR SOILS THAT TEND TO BE UNSTABLE OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC COMP PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 303.13 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIALS ARE ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH POES AS DETERMINED BY THE GEOTECHNICAL ENGINEER. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE THE CONTRACTOR.

(SEE EARTHWORK SCHEDULE FOR QUANTITIES)

## PROPOSED LEGEND

- ① BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70, 11/2"
- 2 POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50,  $1^{\prime}/_2^{\prime\prime}$
- 3 TEMPORARY PAVEMENT \*\*\*
- (4) CONCRETE MEDIAN SURFACE, 6" (SPECIAL)
- (5) PORTLAND CEMENT CONCRETE PAVEMENT, 11" (JOINTED)
- (6) PORTLAND CEMENT CONCRETE SHOULDERS, 11"
- 7 PORTLAND CEMENT CONCRETE SHOULDERS, 12"
- 8 STABILIZED SUB-BASE, 4"
- 9 COMBINATION CONCRETE CURB & GUTTER, TYPE M-4.12
- (I) SUB-BASE GRANULAR MATERIAL, TYPE B 24" (GRADATION PER 30-YEAR PAVEMENT SPECIFICATION)
- (1) COMBINATION CONCRETE CURB & GUTTER, TYPE B-V.12
- (12) COMBINATION CONCRETE CURB & GUTTER, TYPE M-2.12
- (3) COMBINATION CONCRETE CURB & GUTTER, TYPE M-4.24
- (4) COMBINATION CONCRETE CURB & GUTTER, TYPE M-4.48
- (5) SUB-BASE GRANULAR MATERIAL, TYPE B 6" (CA6 GRADATION)
- (6) PROPOSED RETAINING WALL (SEE STRUCTURAL PLANS)
- (1) CONCRETE BARRIER, DOUBLE FACE, 32 INCH HEIGHT; BARRIER BASE (SEE NOTE BELOW)
- (18) CONCRETE BARRIER TRANSITION (SEE NOTE BELOW)
- (9) STEEL PLATE BEAM GUARDRAIL, TYPE A
- O CONCRETE MEDIAN SURFACE, 5" (MODIFIED)
- (1) TOPSOIL FURNISH & PLACE, 4"; SEEDING, CLASS 2A; EROSION CONTROL BLANKET; & NUTRIENTS
- 2 PORTLAND CEMENT CONCRETE BASE COURSE, 101/2"
- 23) PIPE UNDERDRAIN, 6" (SEE DETAILS)
- @ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- 25 PORTLAND CEMENT CONCRETE BASE COURSE, 9"
- 6 COMBINATION CONCRETE CURB & GUTTER, TYPE M-2.24
- (2) COMBINATION CONCRETE CURB & GUTTER, TYPE M-2.48
- (SEE RETAINING WALL PLANS)
- (29) CONCRETE CURB, TYPE B
- (3) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12
- 31) CHAIN LINK FENCE, 6'
- CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT; BARRIER BASE (SEE NOTE BELOW)
- 33) SUB-BASE GRANULAR MATERIAL, TYPE B 12" (CA6 GRADATION)
- AGGREGATE FILL (INCLUDED IN THE COST OF "CONCRETE MEDIAN SURFACE, 6" (SPECIAL)" OR "CONCRETE MEDIAN SURFACE, 5" (MODIFIED)"
- 35 PORTLAND CEMENT CONCRETE PAVEMENT, 10" (JOINTED)
- CONCRETE BARRIER, SINGLE FACE, 32 INCH HEIGHT; BARRIER BASE (SEE NOTE BELOW)
- 3 BITUMINOUS SHOULDERS, SUPERPAVE 6"
- TOPSOIL FURNISH AND PLACE, 12"; COMPOST FURNISH AND PLACE, 6"; SEEDING, CLASS 2A; EROSION CONTROL BLANKET; NUTRIENTS
- TOPSOIL FURNISH AND PLACE, 12"; COMPOST FURNISH AND PLACE, 6"; PLANTINGS AND HERBICIDE
- 40 FURNISH TEMPORARY CONCRETE BARRIER
- \*\*\*- SEE TYPICAL SECTION PAVEMENT DETAILS

NOTE: A PAINT STRIPE SHALL BE APPLIED TO THE FACE OF BARRIER WALL ADJACENT TO ALL DRAINAGE STRUCTURES. THE STRIPE SHALL BE 4" WIDE BY 12" LONG, AND EXTEND VERTICALLY AT 90 DEGREES FROM THE TOP EDGE OF THE BARRIER. THE PAINT WILL BE SPECIFIED AS ORANGE PAINT. COST OF THE STRIPE IS TO BE INCLUDED IN THE COST OF THE CONCRETE BARRIER.

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## EXISTING LEGEND

ALL EXISTING PAVEMENT DEPTHS ARE FROM AS-BUILT PLANS

- (A) BIT CONC SURFACE COURSE, 11/2"±
- B BIT CONC BINDER COURSE, 11/2"±
- © SUB-BASE GRANULAR MATERIAL, 6"±
- (D) PCC BASE COURSE, 9"±
- (E) PCC PAVEMENT, 10"± (WITH PAVEMENT FABRIC, 80 LBS±/100 SF)
- F CRUSHED STONE, 5"±
- G CHAIN LINK FENCE
- (H) BIT CONC BINDER COURSE, 43/4"±
- (I) COMB CONC CURB & GUTTER
- (J) SIDEWALK
- (K) PCC SHOULDERS, 9"±
- L SUB-BASE GRANULAR MATERIAL, 4"±
- M CONCRETE BARRIER WALL
- (N) CRC PAVEMENT, 10"±
- O SUB-BASE GRANULAR MATERIAL, 12"±
- P STABILIZED SUB-BASE 4"±
- Q PIPE UNDERDRAIN, 6"±
- R BIT CONC BINDER COURSE, 21/2"±
- S STABILIZED SHOULDER, 16"±

## BITUMINOUS MIXTURE REQUIREMENT

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ITEM	AC TYPE	VOIDS	RAP %			
BIT. CONC. SURFACE COURSE, SUPERPAVE, MIX "D", N70	PG 64-22	4%@70 Gyr	10			
POLY. LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50	SBS/SBR PG 76-28	2.5%@50 Gyr	0			
*BIT. CONC. SURFACE COURSE, SUPERPAVE, MIX "D", N50	PG 64-22	4%@50 Gyr	15			
*BIT. BASE COURSE, SUPERPAVE, N50	PG 58-22	2%@50 Gyr	50			
**POLY. BIT. CONC. SURFACE COURSE, SUPERPAVE, MIX "F", N105	SBS 70-22	4%@105 Gyr	0			
**BIT. CONC. BINDER COURSE, SUPERPAVE, IL-19, N105	PG 64-22	4%@105 Gyr	0			
STABILIZED SUBBASE, 4"	PG 58-22	2% <b>©</b> 50 Gyr	50			
BITUMINOUS SHOULDERS, SUPERPAVE, 6"	PG 58-22	2%@30 Gyr	50			

• - TEMPORARY PAVEMENT FOR RAMP TERMINALS
• - TEMPORARY PAVEMENT FOR MAINLINE

QUANTITIES FOR BITUMINOUS SUPERPAVE ITEMS WERE DETERMINED USING THE FOLLOWING RATES: 115 LB/SQ YD/IN FOR LEVELING BINDER, AND 112 LB/SQ YD/IN FOR SURFACE COURSE.

STRUCTURAL DESIGN TRAFFIC: PV = 16,758 SU = 532 MU = 1,710 ROAD/STREET CLASSIFICATION: CLASS 1 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE: P = 100 S = 100 M = 100
TRAFFIC FACTOR: ACTUAL TF = 38.10 AC TYPE = N/A P = 100MINIMUM TF = 16.75AC GRADE: BINDER = - SURFACE = SUBGRADE SUPPORT RATING: SSR = 2.00

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION				
NAME	DATE	TELEMOTO DEL ANTIMENT OF TRANSPORTATION				
		F.A.I. 94 (DAN RYAN EXPRESSWAY)				
		EXISTING & PROPOSED TYPICAL SECTION LEGEND AND MIX DESIGN TABLES				
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04/15/05 DATE: MARCH 25, 2005

DRAWN BY: CHECKED BY:

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