



- LEGEND:**
- ① PORTLAND CEMENT CONCRETE PAVEMENT 10 1/4" (JOINTED)
  - ② PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)
  - ③ AGGREGATE SUBGRADE 12"
  - ③a 3" CA-6 AGGREGATE CAP (THICKNESS VARIES UNDER SHOULDER) (SEE NOTE 2)
  - ③b 9" POROUS GRANULAR EMBANKMENT (SEE NOTE 2)
  - ④ STABILIZED SUBBASE - HOT-MIX ASPHALT, 3" (PER ISTHA DESIGN)
  - ⑤ HOT-MIX ASPHALT SHOULDERS, 6"
  - ⑥ CONCRETE MEDIAN, TYPE SB-6.12
  - ⑦ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
  - ⑧ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
  - ⑨ GUTTER, TYPE G-2
  - ⑩ CONCRETE MEDIAN SURFACE, 4 INCH
  - ⑪ 1 3/4" POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F" N90
  - ⑫ 1" LEVELING BINDER, (MACHINE METHOD), N70
  - ⑬ PORTLAND CEMENT CONCRETE PAVEMENT 10 1/4" OR MATCH EXISTING
  - ⑭ SUB-BASE, GRANULAR MATERIAL, TYPE B 4"
  - ⑮ TOPSOIL, 4", SEEDING AND EROSION CONTROL BLANKET (SEE LANDSCAPING PLANS)
  - ⑯ STEEL PLATE BEAM GUARDRAIL OR TRAFFIC BARRIER TERMINAL, TYPE VARIES
  - ⑰ TEMPORARY PAVEMENT
  - ⑱ AGGREGATE SHOULDER, TYPE B 4"
  - ⑲ PIPE UNDERDRAIN 6"
  - ⑳ PORTLAND CEMENT CONCRETE BASE COURSE, 10 1/4"
  - ㉑ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (SHALL NOT CROSS UNDERDRAIN TRENCHES)
  - ㉒ TOPSOIL, 4" AND SODDING (SEE LANDSCAPING PLANS)

LEGEND APPLIES TO PROPOSED TYPICAL SECTION SHEETS 1-4 OF 5 ONLY.

**IDOT HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

ITEM	AC TYPE	AIR VOIDS
RESURFACING/PAVEMENT WIDENING		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL-9.5mm)	SBS/SBR 76-22	4%±90 Gyr
LEVELING BINDER (MACHINE METHOD), N70 (IL-9.5mm)	PG 64-22*	4%±70 Gyr
HOT-MIX ASPHALT SHOULDERS, 6"	PG 64-22*	2%±30 Gyr
TEMPORARY PAVEMENT (HMA OPTION)		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5mm) (2")	PG 64-22	4%±70 Gyr.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19.0mm) (8")	PG 64-22*	4%±50 Gyr.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LB/SQ YD/IN. USE 135 LB/SQ YD/IN. IF USING A SMA MIX.

\* WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.

CHART APPLIES TO PROPOSED TYPICAL SECTION SHEETS 1-4 OF 5 ONLY.

**ADDITIONAL UNDERCUT:**

- "POROUS GRANULAR EMBANKMENT, SUBGRADE" (PGES) IS RECOMMENDED FOR USE UNDER THE PROPOSED PAVEMENT AT LOCATIONS WITH SOILS THAT ARE 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 ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHALL BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 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 PGES AS DETERMINED BY THE 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.
- WHERE NOTED ON THE TYPICAL SECTIONS, POTENTIAL AREAS OF ADDITIONAL "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL" AT THE TOE OF EXISTING EMBANKMENTS SHALL BE BACKFILLED IMMEDIATELY WITH "POROUS GRANULAR EMBANKMENT, SUBGRADE" (PGES). THE UNDERCUT SHALL BE IN A TRANSVERSE DIRECTION WITH THE LONGITUDINAL WIDTH KEPT TO A MINIMUM.
- SEE SCHEDULE OF QUANTITIES - EARTHWORK AND/OR CROSS-SECTIONS FOR LOCATIONS.

**NOTES:**

- REFER TO PAVEMENT JOINTING AND ELEVATION PLANS FOR THE DESCRIPTIONS AND DETAILS OF PAVEMENT JOINTS.
- 3" CA-6 AGGREGATE CAP AND 9" POROUS GRANULAR EMBANKMENT TOGETHER ARE PAID FOR AS AGGREGATE SUBGRADE 12". THE ADDITIONAL THICKNESS OF THE CAPPING LAYER SHALL BE INCLUDED IN THE COST OF AGGREGATE SUBGRADE 12".

**STRUCTURAL PAVEMENT DESIGN INFORMATION**

STRUCTURAL DESIGN TRAFFIC: YEAR = 2030  
 PV = 47,137 SU = 2,330 MU = 3,496  
 ROAD/STREET CLASSIFICATION: CLASS 1  
 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:  
 P = 8% S = 37% M = 37%  
 TRAFFIC FACTOR: ACTUAL TF = 20.51 AC TYPE = N/A  
 MINIMUM TF = 4.96  
 AC GRADE: BINDER = - SURFACE = -  
 SUBGRADE SUPPORT RATING: SSR = POOR

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 ILLINOIS RTE 60 OVER I-94

PROPOSED TYPICAL SECTIONS  
 IL RTE 60 (TOWNLIN ROAD)  
 (SHEET 1 OF 5)

SCALE: NONE DRAWN BY: CBS  
 DATE: MAY 8, 2007 CHECKED BY: MFG