



**PAVEMENT DESIGN DATA**

|  |          |          |
|--|----------|----------|
| STRUCTURAL DESIGN TRAFFIC: YEAR 2030                 |          |          |
| PV= 24225  | SU = 765 | MU = 510 |
| ROAD/STREET CLASSIFICATION: CLASS I                  |          |          |
| PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE: |          |          |
| P = 32%  | S = 45%  | M = 45%  |
| TRAFFIC FACTOR: ACTUAL TF = 4.21                     |          |          |
| MINIMUM TF = 6.02                                    |          |          |
| STRUCTURE NUMBER (SNc) = 5.44                        |          |          |

**LEGEND**

**EXISTING CONDITIONS**

- ① EXISTING HMA SURFACE, 1 1/2"
- ② EXISTING HMA BINDER COURSE, 1 1/2"
- ③ EXISTING PCC BASE, 8"
- ④ EXISTING SUB-BASE GRANULAR MATERIAL
- ⑤ EXISTING B-6.18 CONCRETE CURB AND GUTTER
- ⑥ EXISTING B-6.12 CONCRETE CURB AND GUTTER
- ⑦ EXISTING PCC SIDEWALK
- ⑧ EXISTING TIE BARS
- ⑨ EXISTING HMA BASE
- ⑩ HMA SURFACE REMOVAL 3"

REMOVAL

**PROPOSED CONDITIONS**

- Ⓐ SODDING, SALT TOLERANT
- Ⓑ TOPSOIL, FURNISH AND PLACE, (6")
- Ⓒ HMA SURFACE COURSE, MIX "D", N70, 2"
- Ⓓ STRIP REFLECTIVE CRACK CONTROL TREATMENT
- Ⓔ POLYMERIZED LEVELING BINDER, (MACHINE METHOD), IL-4.75, N50, 1"
- Ⓕ COMBINATION CONCRETE CURB AND GUTTER, B-6.18
- Ⓖ BITUMINOUS MATERIAL (PRIME COAT)
- Ⓗ PCC BASE COURSE 8"
- Ⓘ PCC SIDEWALK, 5"
- Ⓝ AGGREGATE SUBGRADE, 16"
- Ⓚ TIE BARS (SEE NOTE 3)

**NOTES**

1. THE CONTRACTOR SHALL PERFORM THE PAVEMENT PATCHING OPERATIONS PRIOR TO THE HMA SURFACE REMOVAL OPERATION. SEE IDOT DISTRICT 1 DETAIL PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22) FOR ADDITIONAL INFORMATION.
2. CLASS B PATCHING PERFORMED THROUGHOUT CONCRETE SECTION ONLY.
3. TIE BARS SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICE FOR THE PORTLAND CEMENT CONCRETE ITEM INVOLVED.

**HOT MIX ASPHALT MIXTURE REQUIREMENTS**

| MIXTURE TYPE   | AIR VOIDS @ Ndes |
|--|------------------|
| PAVEMENT RESURFACING                                       |                  |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5mm)    | 4% @ 70 GYR.     |
| POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 | 4% @ 50 GYR.     |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (DRIVEWAY)    | 4% @ 50 GYR.     |
| PATCHING   | 4% @ 70 GYR.     |
| CLASS D PATCHES (HMA BINDER IL-19 MM)                      | 4% @ 70 GYR.     |
| HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19MM)          |                  |

**MIXTURE NOTES:**

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SQ YD/IN
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

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|                  |           |
|------------------|-----------|
| DESIGNED - CJD   | REVISED - |
| DRAWN - CJD      | REVISED - |
| CHECKED - TVN    | REVISED - |
| DATE - 5/20/2011 | REVISED - |

**DUPAGE COUNTY  
DEPARTMENT OF TRANSPORTATION**

**ROSELLE RD. & WALNUT ST.  
INTERSECTION IMPROVEMENTS**

**TYPICAL SECTIONS**

SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. TO STA.

|                    |                |        |              |           |
|--------------------|----------------|--------|--------------|-----------|
| F.A.P. RTE.        | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 364                | 07-00184-12-CH | DUPAGE | 49           | 7         |
| CONTRACT NO. 63611 |                |        |              |           |

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

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