

PROPOSED ROUNDABOUT  
 TYPICAL SECTION

**STRUCTURAL PAVEMENT DESIGN INFORMATION**

STATE STREET & OBERNUEFEMANN/N. GREENMOUNT ROAD

STRUCTURAL DESIGN TRAFFIC (S.D.T.) : YEAR = 2026

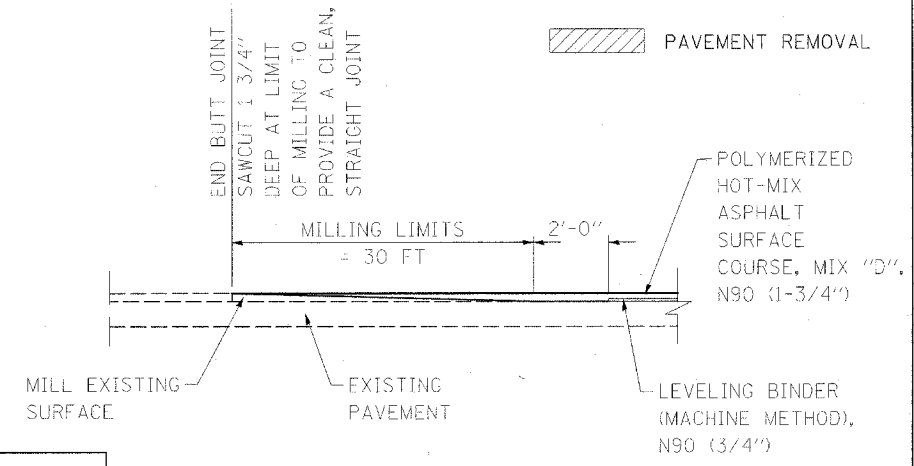
CURRENT ADT (2006): STATE ST: 15,769  
 OBERNUEFEMANN/N. GREENMOUNT: 6,504

DESIGN YEAR (2026): STATE ST: 23,430  
 OBERNUEFEMANN/N. GREENMOUNT: 9,666

CLASS II STREET P.V. = 11,130  
 S.U. = 234  
 M.U. = 351

MINIMUM SOIL SUPPORT: IBR = 3 (ASSUMED FOR ENTIRE PROJECT)

PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:  
 P.C. = 95 S.U. = 2 M.U. = 3 T.F. = 1.63



BUTT JOINT DETAIL

BITUMINOUS MIXTURES REQUIREMENT TABLE

MIXTURE USE(S):	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE	HOT-MIX ASPHALT BINDER COURSE	LEVELING BINDER (MACHINE METHOD)	HOT-MIX ASPHALT BASE COURSE	CLASS D PATCHES TYPE II	HOT-MIX ASPHALT SHOULDERS (BOTTOM LIFT 4")	HOT-MIX ASPHALT SHOULDERS (TOP LIFT 2")
AC/PG:	SBS PG 70-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 58-22	PG 58-22
RAP% (MAX): **	0%	10%	10%	10%	10%	30%	30%
DESIGN AIR VOIDS:	4.0% @ Ndes=90	4.0% @ Ndes=90	4.0% @ Ndes=90	4.0% @ Ndes=90	4.0% @ Ndes=90	2.0% @ Ndes=30	**2.0% @ Ndes=30
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-12.5	IL 19.0	IL 19.0	IL 19.0	IL 19.0		
FRICITION AGGREGATE	MIXTURE "D"	MIXTURE "C"	MIXTURE "C"	MIXTURE "B"	MIXTURE "B"	BAM	BAM

\*\* TOP LIFT SHOULDERS - DESIGN THIS MIX AT 2.0% VOIDS AND ADD ASPHALT TO REDUCE VOIDS TO 1.5%.

LEGEND

- 1 EXISTING HOT-MIX ASPHALT OVERLAY
- 2 EXISTING HOT-MIX ASPHALT PAVEMENT (VARIABLE DEPTH)
- 3 EXISTING PCC PAVEMENT (VARIABLE DEPTH)
- 4 EXISTING AGGREGATE SHOULDER
- 5 EXISTING HOT-MIX ASPHALT SHOULDER
- 6 EXISTING MOUNTABLE CONCRETE CURB AND GUTTER
- 7 EXISTING BARRIER CONCRETE CURB AND GUTTER
- 8 EXISTING CONCRETE SIDEWALK
- 9 PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90 (1-3/4")
- 10 PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 (VARIABLE DEPTH)
- 11 PROPOSED HOT-MIX ASPHALT BASE COURSE (9")
- 12 PROPOSED HOT-MIX ASPHALT SHOULDERS (6")
- 13 PROPOSED COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.18
- 14 PROPOSED COMBINATION CONCRETE CURB & GUTTER, TYPE B-9.18
- 15 PROPOSED COMBINATION CONCRETE CURB & GUTTER, TYPE M-2.06
- 16 PROPOSED COMBINATION CONCRETE CURB & GUTTER, TYPE B-9.18 (SPECIAL)
- 17 PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK, 4"
- 18 PROPOSED CONCRETE MEDIAN, TYPE SB-6.06
- 19 PROPOSED LEVELING BINDER (MACHINE METHOD), N90 (3/4")
- 20 PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE A, (VARIABLE DEPTH)
- 21 PROPOSED PC CONCRETE PAVEMENT, 7.5"
- 22 PROPOSED PAVEMENT FABRIC
- 23 TOPSOIL FURNISH AND PLACE, (VARIABLE DEPTH)
- 24 HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (DUE TO SLOPE CORRECTION)

CITY OF O'FALLON, ILLINOIS

**STATE STREET & OBERNUEFEMANN ROAD**

TYPICAL SECTIONS

SCALE: NONE  
 DATE: 10/05/06

DRAWN BY: SSM  
 CHECKED BY: SRD