

WASHINGTON STREET SUPERELEVATION TRANSITIONS	
NORTHBOUND LANES	
CROSS-SLOPE	LOCATION
<del>0.50%</del> (MATCH EXISTING)	427+95.00
<del>1.50%</del>	429+00.00 TO 430+50.00
<del>0.0%</del> <del>1.50%</del>	431+00.00
<del>2.0%</del> <del>2.0%</del> (A)	431+60.00 TO 436+10.00
<del>0.0%</del>	436+54.00
<del>2.80%</del> (FULL SE)	437+16.00 TO 442+61.00
<del>0.0%</del>	443+23.00
<del>2.0%</del>	443+67.00 TO 444+18.32
<del>2.50%</del> <del>2.0%</del>	444+18.32 TO 448+53.00
<del>2.0%</del>	448+73.00
<del>0.0%</del>	449+49.00
<del>3.10%</del> (FULL SE)	450+68.00 TO 451+49.00
<del>0.0%</del>	452+68.00
<del>2.0%</del>	453+44.00
	453+44.00 TO 454+87.44 (SEE INTERSECTION DETAIL SHEETS)
<del>2.5%</del> <del>2.0%</del> <del>1.5%</del> <del>1.5%</del> (B)	454+87.44 TO 455+21.00
<del>1.5%</del> <del>1.5%</del>	455+38.00
<del>0.0%</del> <del>1.5%</del>	455+93.00
<del>1.5%</del>	456+48.00
<del>3.5%</del> (FULL SE)	457+21.00 TO 458+22.00
<del>1.5%</del>	458+95.00
<del>0.0%</del> <del>1.5%</del> (C)	459+50.00
(D) <del>2.50%</del> <del>2.00%</del>	460+22.00 TO 466+50.00
<del>0.0%</del>	467+00.00
<del>2.00%</del> (MATCH EXISTING)	467+52.70

WASHINGTON STREET SUPERELEVATION TRANSITIONS	
SOUTHBOUND LANES	
CROSS-SLOPE	LOCATION
<del>0.50%</del> (MATCH EXISTING)	527+95.00
<del>1.50%</del>	529+00.56 TO 530+99.33
<del>2.00%</del>	531+59.57 TO 536+68.00
<del>2.80%</del> (FULL SE)	537+28.00 TO 542+60.00
<del>2.00%</del>	543+20.00
<del>2.00%</del> <del>2.50%</del>	543+40.00 TO 549+26.00
<del>2.50%</del>	549+85.00
<del>3.10%</del> (FULL SE)	550+56.00 TO 551+96.90
<del>2.50%</del>	552+68.70
<del>2.00%</del>	553+27.00
	553+27.00 TO 554+75.00 (SEE INTERSECTION DETAIL SHEETS)
<del>2.00%</del> <del>2.50%</del>	554+75.00 TO 555+15.00
<del>2.50%</del>	555+86.00
<del>3.00%</del> (FULL SE)	556+57.00 TO 557+88.0
<del>2.50%</del>	558+59.00
<del>2.00%</del> <del>2.50%</del> (MATCH EXISTING)	559+30.00 TO PROJECT LIMIT

- OUTSIDE LANE ENDS AT STA. 565+54.20 THROUGH LANES CONTINUE AT 2.0% TO PROJECT LIMIT
- (A) LEFT TURN LANE ENDS AT STA 435+53.95
- (B) DUAL LEFT TURN LANES, 3 THRU LANES
- (C) LEFT TURN LANES ENDS AT STA. 460+17.84
- (D) LANE ENDS AT STA. 461+43.06

STRUCTURAL PAVEMENT DESIGN INFORMATION

STRUCTURAL DESIGN TRAFFIC: YEAR = 2018  
 PV = 40,870 SU = N/A MU = 1,930 (75th ST.)  
 PV = 32,020 SU = N/A MU = 1,690 (WASHINGTON ST.)  
 ROAD/STREET CLASSIFICATIONS: CLASS 1  
 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:  
 P = 8% S = 37% M = 37% (75th ST. - 6 LANE SECTION)  
 P = 32% S = 45% M = 45% (4 LANE SECTIONS)  
 TRAFFIC FACTOR: ACTUAL TF = 9.94 (75th ST. - 6 LANE SECTION)  
 ACTUAL TF = 12.11 (75th ST. - 4 LANE SECTION)  
 ACTUAL TF = 10.59 (WASHINGTON ST. - 4 LANE SECTION)  
 AC TYPE = N/A MINIMUM TF = N/A  
 AC GRADE: BINDER = 70-22 SURFACE = 70-22  
 SUBGRADE SUPPORT RATING: SSR = POOR

IDOT HOT-MIX ASPHALT MIXTURE REQUIREMENTS

ITEM	AC TYPE	AIR VOIDS
RESURFACING/PAVEMENT WIDENING		
75TH STREET, WASHINGTON STREET AND HOBSON ROAD		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL-9.5mm)	SBS/SBR 70-22	4%±90 Gyr
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N 90	SBS/SBR 70-22	4%±90 Gyr
SHARED-USED PATH/PEDESTRIAN TUNNEL PATH		
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL-9.5mm)	PG 64-22	4%±50 Gyr
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	PG 64-22 *	4%±50 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 BINDER COURSE, IL-19.0, N70 (8")	PG 64-22 *	4%±70 Gyr
TEMPORARY HMA OVERLAY		
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	PG 64-22 *	4%±70 Gyr
HMA REPLACEMENT OVER PATCHES		
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	PG 64-22 *	4%±70 Gyr
CLASS "D" PATCHES		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL-9.5mm) (2")	SBS/SBR 70-22	4%±90 Gyr
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N 90 (10")	SBS/SBR 70-22	4%±90 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.

REVISIONS	
NAME	DATE

INTERSECTION IMPROVEMENT  
 WASHINGTON STREET - 75th STREET  
 PROPOSED TYPICAL SECTIONS -  
 SUPERELEVATION AND PAVEMENT  
 DESIGN  
 SHEET 11 OF 11

CONSULTANT  
**TYLIN INTERNATIONAL**

City of  **Naperville**

DRAWN: \_\_\_\_\_ SHEET NO. \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 APPROVED: \_\_\_\_\_  
 DATE: APRIL 11, 2008  
 SCALE: NONE  
 JOB NO. P-91-494-00 PROJECT NO. M-CMM-7003 (985)