

PORTLAND CEMENT CONCRETE SIDEWALK, 5'
EXISTING SIDEWALK
FROM STA. 42+53.50 TO STA. 51+35.79
FROM STA. 70+28.22 TO STA. 84+35.00
(ANY MATERIAL USED AS LEVELING MATERIAL UNDER
THE SIDEWALK SHALL BE INCLUDED IN THE PRICE FOR
PORTLAND CEMENT CONCRETE SIDEWALK, 5')

PORTLAND CEMENT CONCRETE SIDEWALK, 5'
EXISTING SIDEWALK
FROM STA. 59+57.94 TO STA. 66+64.43
FROM STA. 69+87.72 TO STA. 73+42.42
(ANY MATERIAL USED AS LEVELING MATERIAL UNDER
THE SIDEWALK SHALL BE INCLUDED IN THE PRICE FOR
PORTLAND CEMENT CONCRETE SIDEWALK, 5')

PROPOSED TYPICAL SECTION
C.H. 35 (55TH ST.)

STA. 9+50.00 TO STA. 32+06.35
STA. 42+41.98 TO STA. 83+40.00

MILLING & RESURFACING CONSISTS OF THE FOLLOWING:
EXISTING HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"
PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"

CONTRACTOR SHALL MILL BEFORE PATCHING.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS			
LOCATION(S)	MIXTURE TYPE	AIR VOIDS	NO. OF LIFTS
C.H. 35 (55TH ST.) (RECONSTRUCT)	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2" (IL-9.5 mm)	4% @ 70 GYR	3
C.H. 35 (55TH ST.) (RECONSTRUCT)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"	4% @ 70 GYR	
C.H. 35 (55TH ST.) (RECONSTRUCT)	HOT-MIX ASPHALT BASE COURSE, 8" (HMA BINDER IL-19 mm)	4% @ 70 GYR	
C.H. 35 (55TH ST.) (WIDENING)	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2" (IL-9.5 mm)	4% @ 70 GYR	3
C.H. 35 (55TH ST.) (WIDENING)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"	4% @ 70 GYR	
C.H. 35 (55TH ST.) (WIDENING)	LEVELING BINDER (MACHINE METHOD), N70 (IL-9.5 mm)	4% @ 70 GYR	
CLARENDON HILLS RD.	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2" (IL-9.5 mm)	4% @ 70 GYR	3
CLARENDON HILLS RD.	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"	4% @ 70 GYR	
CASS AVE. (SOUTH LEG)	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2" (IL-9.5 mm)	4% @ 70 GYR	
CASS AVE. (SOUTH LEG)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"	4% @ 70 GYR	3
CASS AVE. (NORTH LEG)	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2" (IL-9.5 mm)	4% @ 70 GYR	
CASS AVE. (NORTH LEG)	LEVELING BINDER (MACHINE METHOD), N70 (IL-9.5 mm)	4% @ 70 GYR	
ALL OTHER SIDE ROADS	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 1 1/2" (IL-9.5 mm)	4% @ 50 GYR	3
ALL OTHER SIDE ROADS	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/4"	4% @ 50 GYR	
PAVEMENT REMOVAL, HOT-MIX ASPHALT REPLACEMENT & PATCHING	CLASS D PATCHES, 10" (HMA BINDER IL-19 mm)	4% @ 70 GYR	
TEMPORARY PAVEMENT	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 10"	4% @ 50 GYR	3
TEMPORARY RAMPS	LEVELING BINDER (MACHINE METHOD), N70 (IL-9.5 mm)	4% @ 70 GYR	
DRIVEWAYS	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 1" (IL-9.5 mm)	4% @ 50 GYR	3
	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2"	4% @ 50 GYR	

LOCATION: C.H. 35 (55TH ST.)		
MIXTURE USE	SURFACE	BINDER
AC TYPE	PG 58-28	PG 58-28
RAP% : (MAX.)	15%	25%
DESIGN AIR VOIDS	4% @ NDes=70	4% @ NDes=70
MIXTURE COMPOSITION	IL-9.5	IL-19.0
FRICION AGGREGATE	MIX "D"	N/A

C.H. 35 (55TH ST.) STRUCTURAL PAVEMENT DESIGN

STRUCTURAL DESIGN TRAFFIC (S.D.T.) YEAR 2020

PV = 25645 SU = 1050 MU = 215

CLASS I ROAD
SUB-GRADE SUPPORT RATING: POOR
PERCENT OF S.D.T. IN DESIGN LANE: 50%

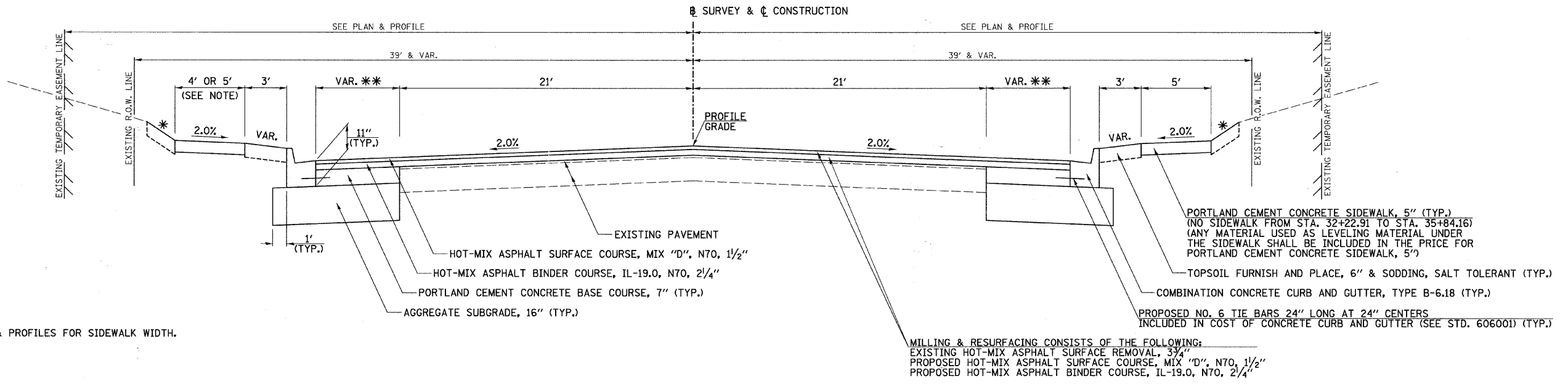
TRAFFIC FACTOR = 2.73

PAVEMENT STRUCTURE MATERIALS WIDENING & RESURFACING

SURFACE COURSE TYPE: HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
BINDER COURSE TYPE: HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"
BASE COURSE TYPE: PORTLAND CEMENT CONCRETE BASE COURSE, 7"
SUB-BASE TYPE: AGGREGATE SUBGRADE, 16"

NOTES:
THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
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."

* 3:1 & VARIES (SEE CROSS SECTIONS).
** 0' FROM
STA. 32+06.35 TO STA. 32+22.91 (LT.) & STA. 32+06.35 TO STA. 32+40.91 (RT.).
VARIES 0' TO 6.7' FROM STA. 32+22.91 TO STA. 34+47.75 (LT.).
VARIES 0' TO 6.2' FROM STA. 32+40.91 TO STA. 34+47.75 (RT.)
6.5' FROM
STA. 38+38.66 TO STA. 39+75.53 (LT.) & STA. 38+38.66 TO STA. 39+76.41 (RT.)
VARIES 6.5' TO 0' FROM
STA. 39+75.53 TO STA. 42+41.98 (LT.) STA. 39+76.41 TO STA. 42+41.98 (RT.)



PORTLAND CEMENT CONCRETE SIDEWALK, 5" (TYP.)
(NO SIDEWALK FROM STA. 32+22.91 TO STA. 35+84.16)
(ANY MATERIAL USED AS LEVELING MATERIAL UNDER
THE SIDEWALK SHALL BE INCLUDED IN THE PRICE FOR
PORTLAND CEMENT CONCRETE SIDEWALK, 5")

PROPOSED TYPICAL SECTION
C.H. 35 (55TH ST.)

STA. 32+06.35 TO STA. 34+47.75
STA. 38+38.66 TO STA. 42+41.98

MILLING & RESURFACING CONSISTS OF THE FOLLOWING:
EXISTING HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"
PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"

NOTE:
SEE PLAN & PROFILES FOR SIDEWALK WIDTH.