

PAVEMENT STRUCTURAL DESIGN - (GARNSEY AVENUE)

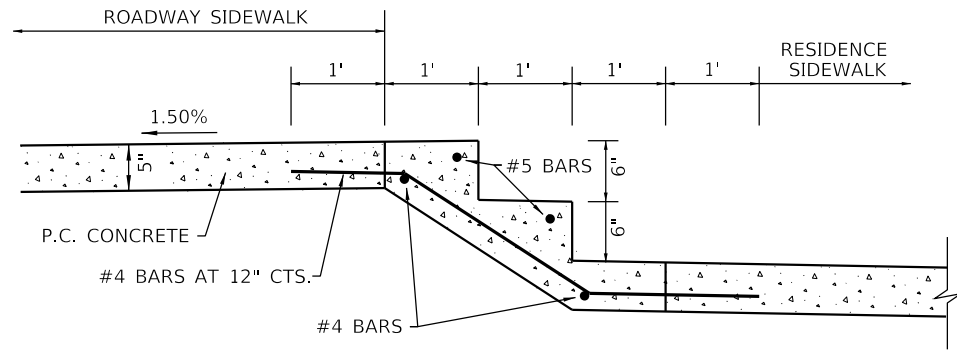
STRUCTURAL DESIGN TRAFFIC (S.D.T.) = YEAR 2040	
CLASS III STREET	P.V. 1,320
80,000# TRUCK DESIGN	S.U. 105 } 1,500 ADT
	M.U. 75
E _{Ri} : (ASSUMED) 2 ksi	
TF = 0.40	
HMA MIX TEMP. 78° F	
HMA E _{AC} = 593 ksi	
HMA DESIGN STRAIN 189 microstrain	
2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	
4.75" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	
12" AGGREGATE SUBGRADE IMPROVEMENT	

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ NDES
HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 6 3/4"	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5MM); 2"	4% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 4.75" (IN 2 LIFTS)	4% @ 50 GYR.
CLASS D PATCHES, TYPE III, 4" - IL-19.0 BINDER (IN 2 LIFTS)	4% @ 50 GYR.
CLASS D PATCHES, TYPE IV, 4" - IL-19.0 BINDER (IN 2 LIFTS)	4% @ 50 GYR.
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5MM); 1 1/2"	4% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 2.50" (IN 1 LIFT)	4% @ 50 GYR.

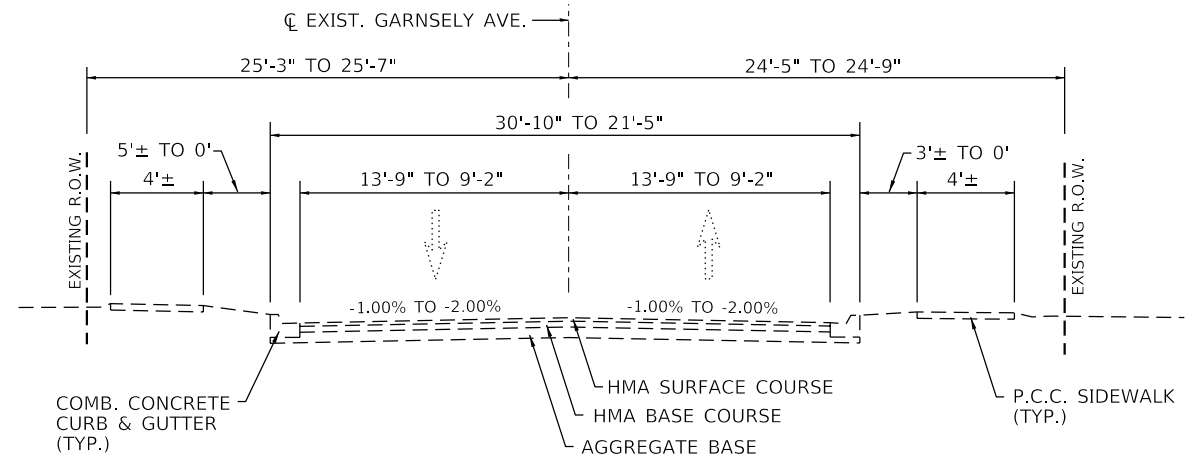
THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ. YD./IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS, SEE SPECIAL PROVISIONS.



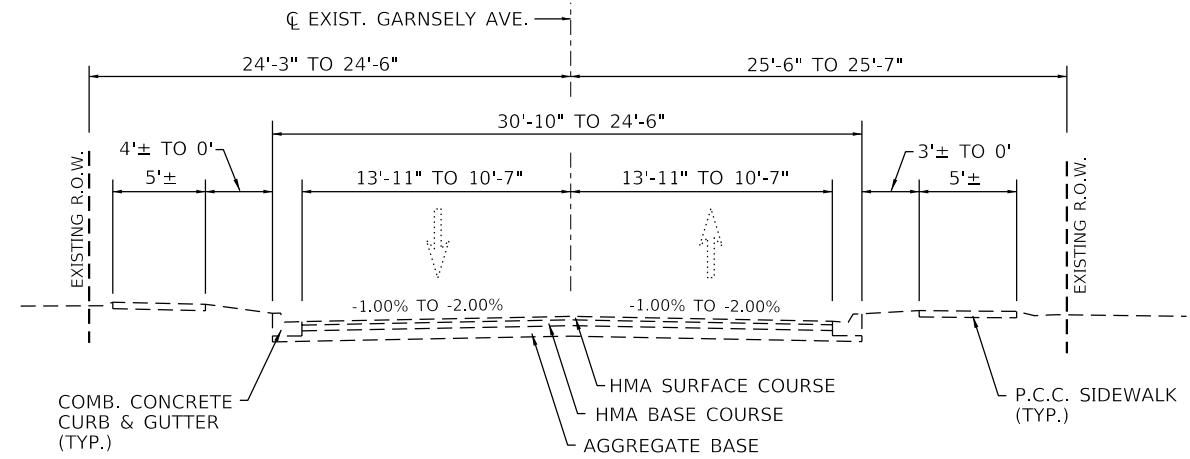
CONCRETE STEP DETAIL

RT STA. 19+60
RT STA. 20+53



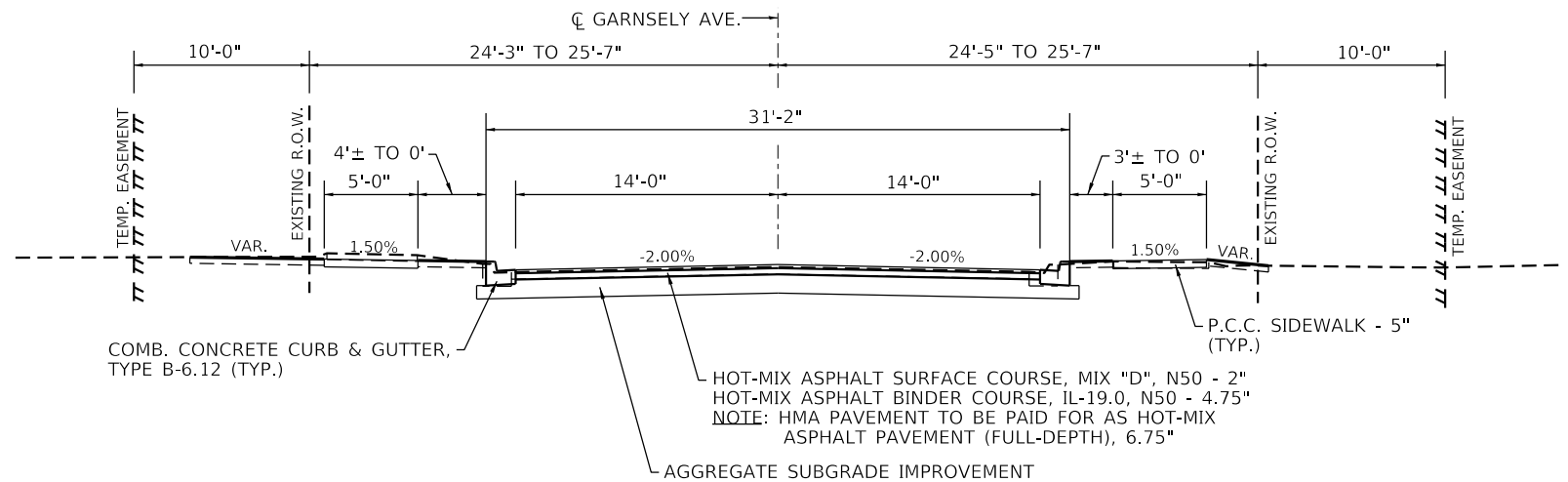
EXISTING TYPICAL SECTION - (GARNSEY AVENUE)

(LOOKING NORTH)
STA. 20+22.80 TO STA. 21+35.00



EXISTING TYPICAL SECTION - (GARNSEY AVENUE)

(LOOKING NORTH)
STA. 18+35.00 TO STA. 19+77.20



PROPOSED TYPICAL SECTION - (GARNSEY AVENUE)

(LOOKING NORTH)
STA. 18+35.00 TO STA. 19+47.20
STA. 20+52.80 TO 21+35.00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT DESIGN & TYPICAL SECTIONS
STRUCTURE NO. 099-6480

SHEET NO. 1 OF 1 SHEETS

M.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1083	11-00443-00-BR	WILL	50	6
WHA# 1319D11		CONTRACT NO. 61G53		
ILLINOIS FED. AID PROJECT J93L330				

USER NAME =	DESIGNED - MAH	REVISED - GBG - 5/17/2021
	CHECKED - MAH	REVISED -
PLOT SCALE =	DRAWN - GFS	REVISED -
PLOT DATE =	CHECKED - GFS	REVISED -