



**PAVEMENT TRANSITION DETAIL**

**LEGEND**

- ① EXISTING BITUMINOUS SURFACE ON AGGREGATE BASE
- ② BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE MIX D, N70 (1 1/2" MINIMUM THICKNESS)
- ③ BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE IL 19.0, N50 (1 3/4" THICKNESS)
- ④ LEVELING BINDER, MACHINE METHOD, SUPERPAVE N70 (THICKNESS VARIES AS REQUIRED)
- ⑤ BITUMINOUS BASE COURSE, SUPERPAVE 10.5"
- ⑥ STRIP REFLECTIVE CRACK CONTROL TREATMENT
- ⑦ TEMPORARY RAMP AT 1:40 (SEE ARTICLE 406.18)
- ⑧ BITUMINOUS SURFACE REMOVAL - BUTT JOINT
- ⑨ PAVEMENT REMOVAL
- ⑩ BRIDGE APPROACH PAVEMENT (STANDARD 420401)
- ⑪ STEEL PLATE BEAM GUARD RAIL. SEE SCHEDULE OF QUANTITIES FOR LOCATIONS
- ⑫ SUB-BASE GRANULAR MATERIAL, TY B, 4"
- ⑬ FURNISHING AND PLACING TOPSOIL, 4"
- ⑭ BITUMINOUS MATERIALS (PRIME COAT)
- ⑮ AGGREGATE BASE COURSE TY. A (SPECIAL) 6"
- ⑯ BITUMINOUS BASE COURSE, SUPERPAVE 4.5"
- ⑰ SUB-BASE GRANULAR MATERIAL, TY A, 4"
- ⑱ AGGREGATE SHOULDER TY. A (SPECIAL) 4"
- ⑳ TEMPORARY CONCRETE BARRIER
- ㉑ PROPOSED GUARD RAIL
- ㉒ REMOVE STEEL PLATE BEAM GUARD RAIL
- ㉔ BITUMINOUS BASE COURSE SUPERPAVE 6"
- ㉕ BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE MIX C, N50 (2" MINIMUM THICKNESS)
- ㉖ PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT 7"
- ㉗ FLEXIBLE PAVEMENT CONNECTOR

MIXTURE REQUIREMENTS	
LOCATION(S):	C.H. 14 (MILLBURN ROAD) MAINLINE
MIXTURE USE(S):	SURFACE COURSE
AC/PG:	PG 64-22
RAP % (MAX):	10%
DESIGN AIR VOIDS:	4% @ Ndes 70
MIXTURE COMPOSITION: (GRADATION MIXTURE):	IL 9.5 OR IL 12.5
FRICITION AGGREGATE:	MIXTURE D
MIXTURE WEIGHTS	112 LBS/SY/INCH THICKNESS

MIXTURE REQUIREMENTS	
LOCATION(S):	C.H. 14 (MILLBURN ROAD) MAINLINE
MIXTURE USE(S):	LEVELING BINDER (MACHINE METHOD)
AC/PG:	PG 64-22
RAP % (MAX):	10%
DESIGN AIR VOIDS:	4% @ Ndes 70
MIXTURE COMPOSITION: (GRADATION MIXTURE):	IL 9.5 OR IL 12.5
FRICITION AGGREGATE:	MIXTURE D
MIXTURE WEIGHTS	112 LBS/SY/INCH THICKNESS

MIXTURE REQUIREMENTS	
LOCATION(S):	C.H. 14 (MILLBURN ROAD) MAINLINE
MIXTURE USE(S):	BASE COURSE
AC/PG:	PG 58-22
RAP % (MAX):	25%
DESIGN AIR VOIDS:	4% @ Ndes 50
MIXTURE COMPOSITION: (GRADATION MIXTURE):	IL 19.0
FRICITION AGGREGATE:	-
MIXTURE WEIGHTS	112 LBS/SY/INCH THICKNESS

MIXTURE REQUIREMENTS	
LOCATION(S):	BIKE PATH
MIXTURE USE(S):	SURFACE COURSE
AC/PG:	PG 64-22
RAP % (MAX):	15%
DESIGN AIR VOIDS:	4% @ Ndes 50
MIXTURE COMPOSITION: (GRADATION MIXTURE):	IL 9.5 OR IL 12.5
FRICITION AGGREGATE:	MIXTURE C
MIXTURE WEIGHTS	112 LBS/SY/INCH THICKNESS

MIXTURE REQUIREMENTS	
LOCATION(S):	BIKE PATH
MIXTURE USE(S):	BINDER COURSE
AC/PG:	PG 64-22
RAP % (MAX):	15%
DESIGN AIR VOIDS:	4% @ Ndes 50
MIXTURE COMPOSITION: (GRADATION MIXTURE):	IL 19.0
FRICITION AGGREGATE:	-
MIXTURE WEIGHTS	112 LBS/SY/INCH THICKNESS

MIXTURE REQUIREMENTS	
LOCATION(S):	C.H. 14 (MILLBURN ROAD) MAINLINE
MIXTURE USE(S):	BITUMINOUS SHOULDERS (TOP LIFT)
AC/PG:	PG 64-22
RAP % (MAX):	10%
DESIGN AIR VOIDS:	4% @ Ndes 70
MIXTURE COMPOSITION: (GRADATION MIXTURE):	IL 9.5 OR IL 12.5
FRICITION AGGREGATE:	MIXTURE D
MIXTURE WEIGHTS	112 LBS/SY/INCH THICKNESS

MIXTURE REQUIREMENTS	
LOCATION(S):	C.H. 14 (MILLBURN ROAD) MAINLINE
MIXTURE USE(S):	BITUMINOUS SHOULDERS (BOTTOM LIFT)
AC/PG:	PG 58-22
RAP % (MAX):	25%
DESIGN AIR VOIDS:	4% @ Ndes 50
MIXTURE COMPOSITION: (GRADATION MIXTURE):	IL 19.0
FRICITION AGGREGATE:	-
MIXTURE WEIGHTS	112 LBS/SY/INCH THICKNESS

MIXTURE REQUIREMENTS	
LOCATION(S):	DRIVEWAYS
MIXTURE USE(S):	INCIDENTAL BITUMINOUS SURFACING
AC/PG:	PG 64-22
RAP % (MAX):	15%
DESIGN AIR VOIDS:	4% @ Ndes 50
MIXTURE COMPOSITION: (GRADATION MIXTURE):	IL 9.5 OR IL 12.5
FRICITION AGGREGATE:	MIXTURE C
MIXTURE WEIGHTS	112 LBS/SY/INCH THICKNESS

**HLR** Rice, Berry and Associates  
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**ROADWAY DETAILS**  
 SECTION 99-00076-11-BR  
 C.H. 14 / MILLBURN ROAD  
 LAKE COUNTY