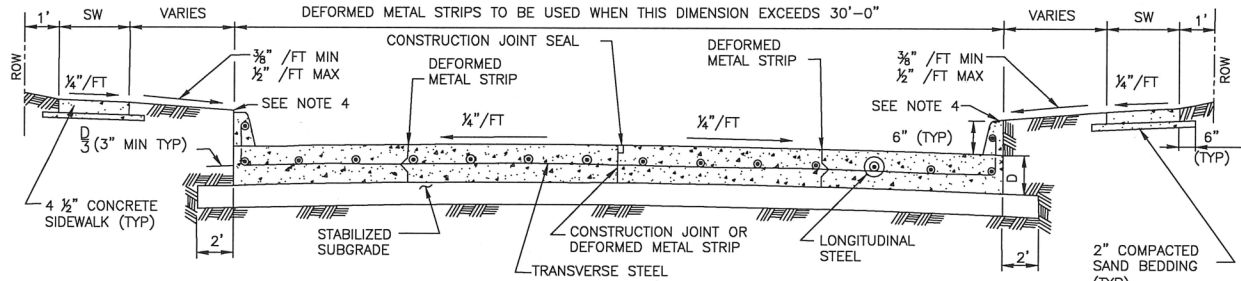


TYPICAL DOUBLE ROADWAY SECTION FOR CONCRETE PAVEMENT WITH CURBS NOTES:

1. THE MAXIMUM WIDTH BETWEEN LONGITUDINAL JOINTS SHALL NOT EXCEED 15'-0".
2. ALL EARTHEN AREAS ARE TO BE HYDROMULCHED UNLESS SHOWN OTHERWISE ON DRAWINGS.
3. CONTRACTOR MAY SAW CUT IN LIEU OF DEFORMED METAL STRIP.
4. USE STRIP OF SOD GRASS TO PREVENT EROSION UNTIL STAND OF GRASS IS ESTABLISHED.
5. AN EQUAL OR LARGER AREA OF WELDED REINFORCEMENT BAR CONFORMING TO ASTM A497, MAY BE SUBSTITUTED FOR REBARS LISTED IN TABLE 1.
6. IF AVAILABLE ROW IS NOT SUFFICIENT TO ACCOMMODATE SIDEWALK WIDTH (SW) ACCORDING TO IDM REQUIREMENTS, ENGINEER SHALL OBTAIN A VARIANCE FROM THE CITY ENGINEER.



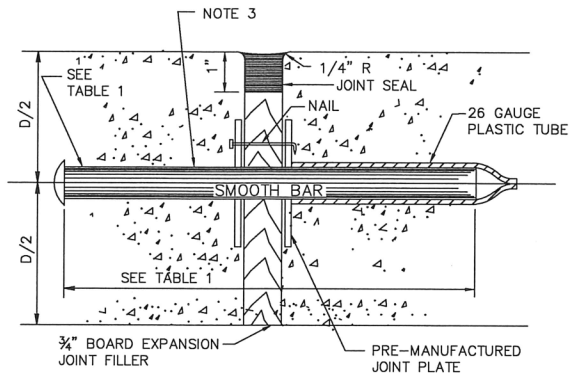
TYPICAL SINGLE ROADWAY SECTION FOR CONCRETE PAVEMENT WITH CURBS

TABLE 1
REINFORCING STEEL BAR SIZES AND SPACINGS FOR VARIOUS PAVEMENT THICKNESSES (D) WITH:
MAXIMUM TRANSVERSE CONTROL JOINT SPACING = 20'-0"
MAXIMUM EXPANSION JOINT SPACING = 80'-0"
f_c' = 4,000 PSI/28 DAYS AND F_y = 60,000 PSI

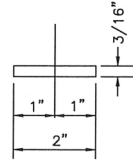
PAVEMENT THICKNESS D (IN)	PAVEMENT WIDTH (FT)	LONGITUDINAL STEEL						TRANSVERSE STEEL					
		# 4 BARS			# 5 BARS			# 6 BARS			# 4 BARS	# 5 BARS	# 6 BARS
		NUMBER OF BARS	SPACING (IN)	END BAR SPACING (IN)	NUMBER OF BARS	SPACING (IN)	END BAR SPACING (IN)	NUMBER OF BARS	SPACING (IN)	END BAR SPACING (IN)	SPACING (IN)	SPACING (IN)	SPACING (IN)
6	28	17	20.50	4	-	-	-	-	-	-	36	-	-
7	25	17	18.25	4	-	-	-	-	-	-	36	-	-
7	35	24	18.00	3	-	-	-	-	-	-	36	-	-
7	36	25	17.75	3	-	-	-	-	-	-	36	-	-
7	37	25	18.25	3	-	-	-	-	-	-	36	-	-
7	41	28	18.00	3	-	-	-	-	-	-	36	-	-
7	45	31	17.75	3.75	-	-	-	-	-	-	36	-	-
8	25	20	15.50	2.75	13	24.50	3	-	-	-	36	36	-
8	34	27	15.50	2.50	17	25.00	4	-	-	-	36	36	-
8	35	27	16.00	2	18	24.25	4	-	-	-	36	36	-
8	36	28	15.75	3.25	18	25.00	3	-	-	-	30	36	-
8	44	24	15.75	4	22	24.75	4	-	-	-	30	36	-
8	45	35	15.75	2.25	23	24.25	3	-	-	-	30	36	-
9	25	22	14.00	3	14	22.50	4	-	-	-	36	36	-
9	34	31	13.50	2	19	22.25	3.50	-	-	-	30	36	-
9	35	31	13.75	3.75	20	21.75	3.50	-	-	-	30	36	-
9	36	32	13.75	3	21	21.25	3.50	-	-	-	30	36	-
9	44	39	13.75	2.75	25	21.75	3	-	-	-	24	36	-
9	45	39	14.00	4	26	21.25	4.50	-	-	-	24	36	-
10	25	24	12.75	3.5	17	18.25	4	-	-	-	36	36	36
10	34	33	12.50	4	21	20.00	4	-	-	-	30	36	36
10	35	34	12.50	3.75	23	18.75	4	-	-	-	30	36	36
10	36	35	12.50	3.5	24	18.50	3	-	-	-	30	36	36
10	44	44	12.00	4	29	18.50	4.50	-	-	-	24	36	36
10	45	44	12.50	3	29	19.00	3	-	-	-	24	36	36
11	25	27	11.25	3	17	18.25	4	12	26.75	3	36	36	36
11	34	36	11.50	2.75	24	17.50	2.5	17	25.00	4	24	36	36
11	35	37	11.50	3	24	18.00	3	17	25.75	4	24	36	36
11	36	40	11.00	2	25	17.75	3	17	26.50	4	24	36	36
11	44	48	11.125	2.5	30	18.00	3	21	26.00	4	24	36	36
11	45	49	11.125	3	31	17.75	4	22	25.50	3	24	36	36
12	25	-	-	-	19	16.25	4	13	24.50	3	36	36	36
12	34	-	-	-	26	16.00	4	18	23.50	4	24	36	36
12	35	-	-	-	26	16.50	4	19	23.00	3	24	36	36
12	36	-	-	-	27	16.25	4.5	20	22.25	4.5	24	36	36
12	44	-	-	-	33	16.25	4	24	22.50	5	24	30	36
12	45	-	-	-	35	15.75	3	25	22.25	3	24	30	36

MINIMUM LAP LENGTH (L):
A. # 4 BARS ; L = 22 INCHES
B. # 5 BARS ; L = 27 INCHES
C. # 6 BARS ; L = 32 INCHES

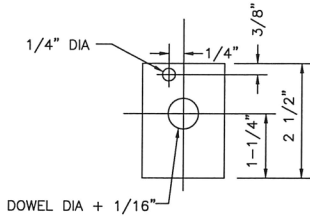
CONCRETE PAVEMENT DETAILS
NTS



SECTION
DOWEL TYPE EXPANSION JOINT
N.T.S.



PLAN - JOINT PLATE



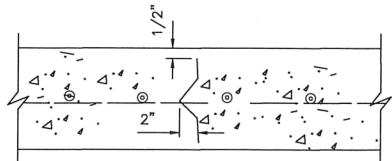
ELEVATION - JOINT PLATE
N.T.S.

- NOTES:
1. STEEL TO MEET ASTM STANDARD SPECIFICATIONS FOR CONCRETE REINFORCING BARS. UNITS TO BE SPACED ON 12" CENTRS.
 2. EXPANSION JOINT TO BE PLACED AT THE END OF EACH CURB RADIUS.
 3. CENTER DOWEL HORIZONTALLY ON JOINT.
 4. CENTER DOWEL VERTICALLY IN CONCRETE BASE. EXTEND THICKENED CONCRETE AS NEEDED TO MAINTAIN 3" MIN COVER.
 5. CITY OF HOUSTON APPROVED PRODUCTS MAY BE USED AS JOINT PLATE ALTERNATIVE.

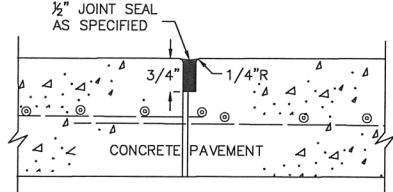
TABLE 1

PAVEMENT THICKNESS (IN)	DOWEL SIZES AND SPACINGS		
	DIAMETER (IN)	LENGTH (IN)	SPACING (IN)
6	3/4	18	12
7	1	18	12
8	1	18	12
9	1 1/4	18	12
10	1 1/4	18	12
11	1 1/4	18	12
12	1 1/4	18	12

PAVEMENT EXPANSION AND CONSTRUCTION JOINT DETAILS
NTS



SECTION
DEFORMED METAL STRIP
N.T.S.



SECTION
CONSTRUCTION JOINT SEAL
N.T.S.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

STREET PAVING AND SIDEWALK
02751-01 THROUGH 02752-01

APPROVED BY: [Signature]
CITY ENGINEER
APPROVED BY: [Signature]
DEPUTY DIRECTOR

APPROVED BY: [Signature]
DIRECTOR OF HOUSTON PUBLIC WORKS

EFFECTIVE DATE: JUL-01-2020
FOR CITY OF HOUSTON USE ONLY