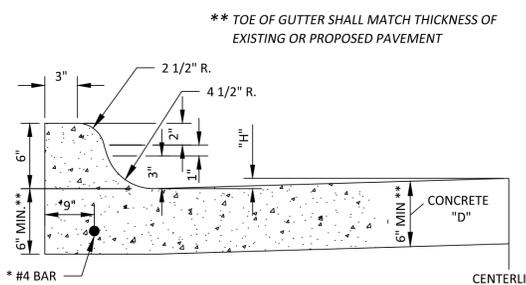


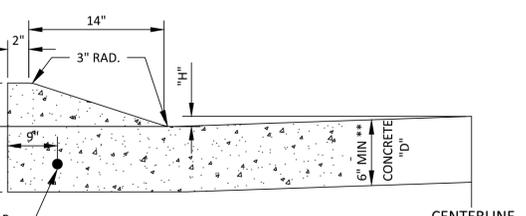
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PLOT DATE: 3/11/2020 4:38 PM
PLOTTED BY: BROOKE WEIR



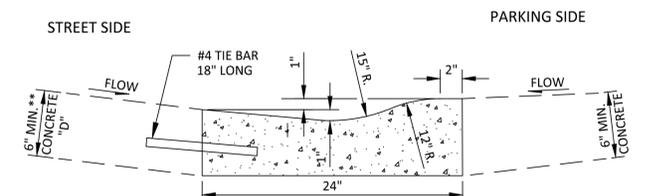
TYPE I - 6" BARRIER CURB
(NOT TO SCALE)

* BAR SHALL BE INSTALLED IF CURB IS NOT POURED MONOLITHICALLY WITH PANEL

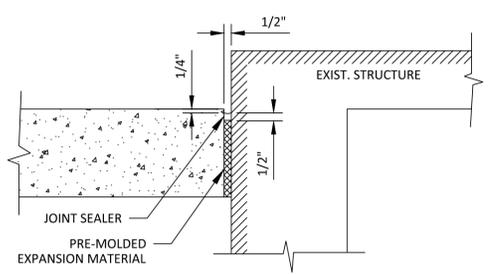


TYPE II - 4" MOUNTABLE CURB
(NOT TO SCALE)

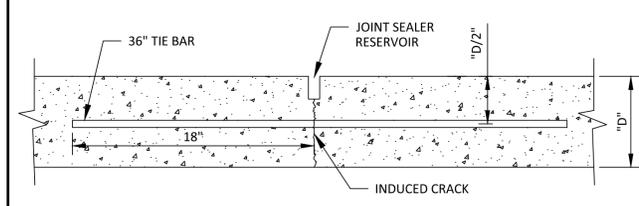
* BAR SHALL BE INSTALLED IF CURB IS NOT POURED MONOLITHICALLY WITH PANEL



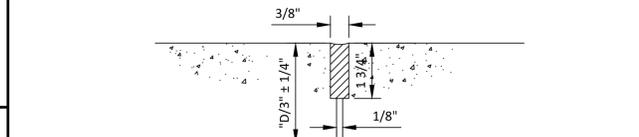
TYPE III - VALLEY GUTTER
(NOT TO SCALE)



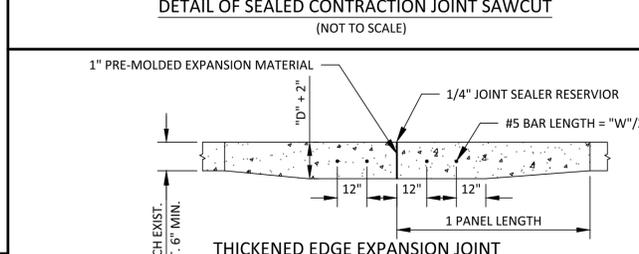
ISOLATION JOINT (TYPE-I)
(NOT TO SCALE)



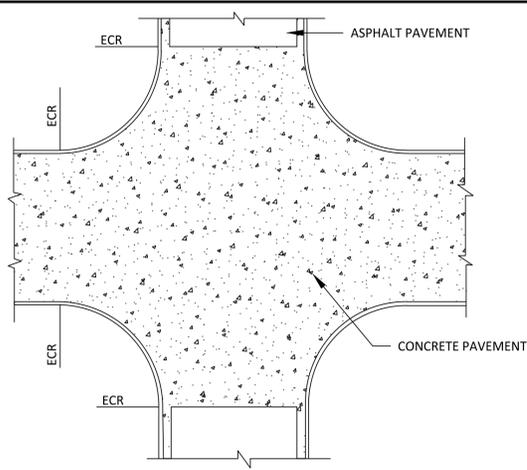
LONGITUDINAL JOINT
(NOT TO SCALE)



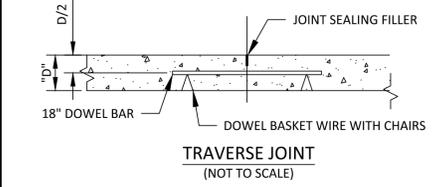
DETAIL OF SEALED CONTRACTION JOINT SAWCUT
(NOT TO SCALE)



THICKENED EDGE EXPANSION JOINT
AT ECR'S AT INTERSECTION
(NOT TO SCALE)



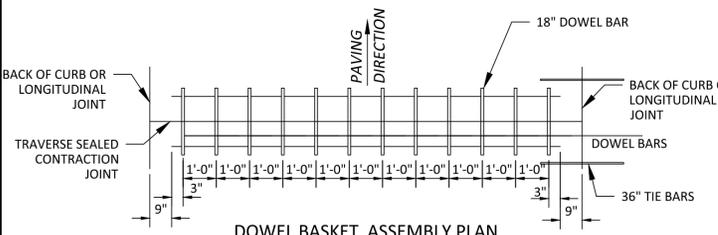
CONCRETE STREET CONNECTION TO ASPHALT SIDE STREET
TYPICAL LAYOUT (NOT TO SCALE)



TRAVERSE JOINT
(NOT TO SCALE)

PAVEMENT DEPTH "D" (IN.)	BAR DIAMETER (IN.)	AVERAGE SPACING (IN.)
6	1/2	12
7	5/8	12
8	1	12
9-10	1-1/4	12
≥11	1-1/2	12

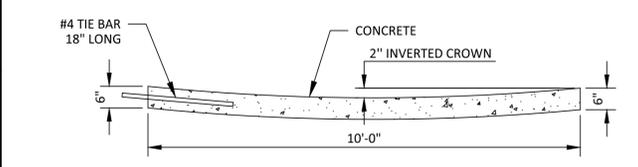
DOWEL BAR SIZE TABLE



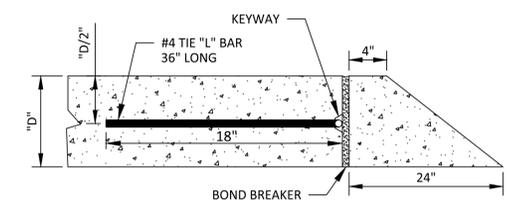
DOWEL BASKET ASSEMBLY PLAN
(NOT TO SCALE)

- NOTES:**
- THE CONTRACTOR MAY SUBSTITUTE OTHER DESIGNS FOR EXPANSION AND CONTRACTION JOINT SUPPORTS IN LIEU OF THE TYPE SHOWN WITH PRIOR WRITTEN APPROVAL BY THE ENGINEER.
 - DOWEL BARS SHALL BE EPOXY COATED AND A MINIMUM OF 18" LENGTH. TIE BARS SHALL BE DEFORMED BARS AND ALL OTHERS SHALL BE SMOOTH.
 - EXPANSION JOINTS SHALL NOT BE SKEWED.
 - "D" = PAVEMENT THICKNESS
 - TRAVERSE JOINT SPACING: MAXIMUM = 12' MINIMUM = 10'

DOWEL BASKET ASSEMBLY
(NOT TO SCALE)

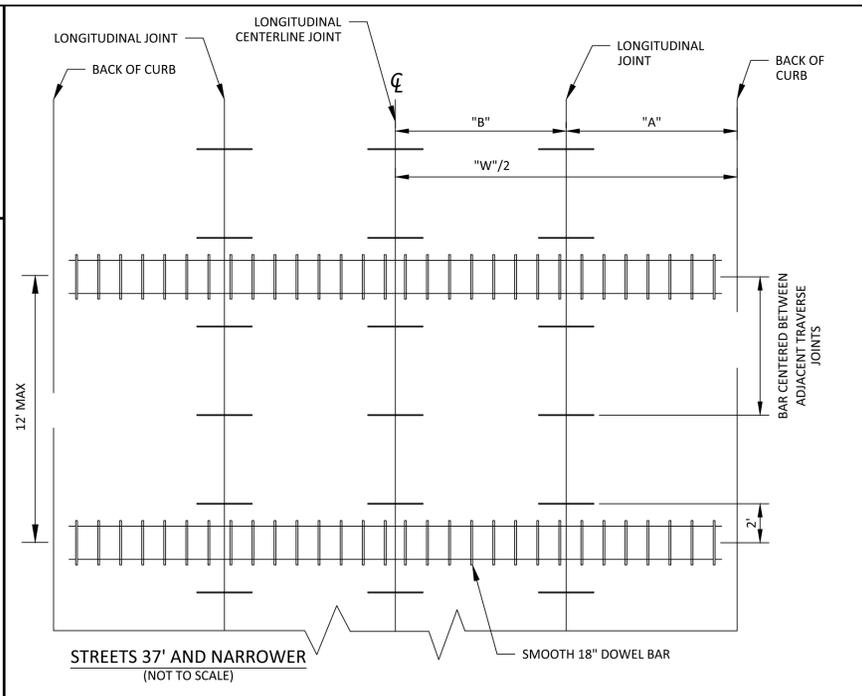


TYPE IV - VALLEY GUTTER SECTION
(NOT TO SCALE)

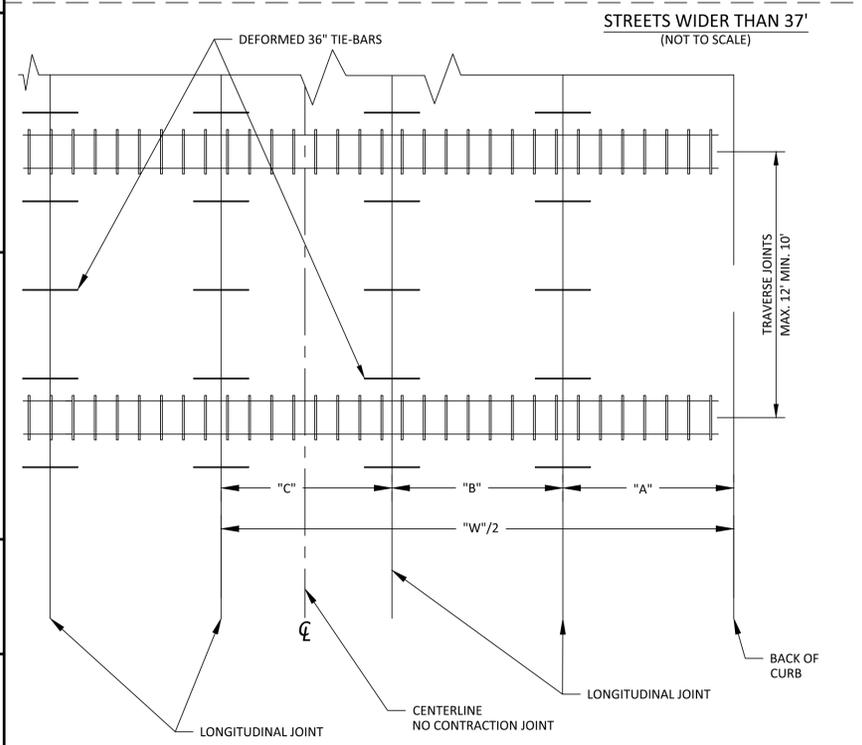


EDGE OF PAVEMENT HEADER
(NOT TO SCALE)

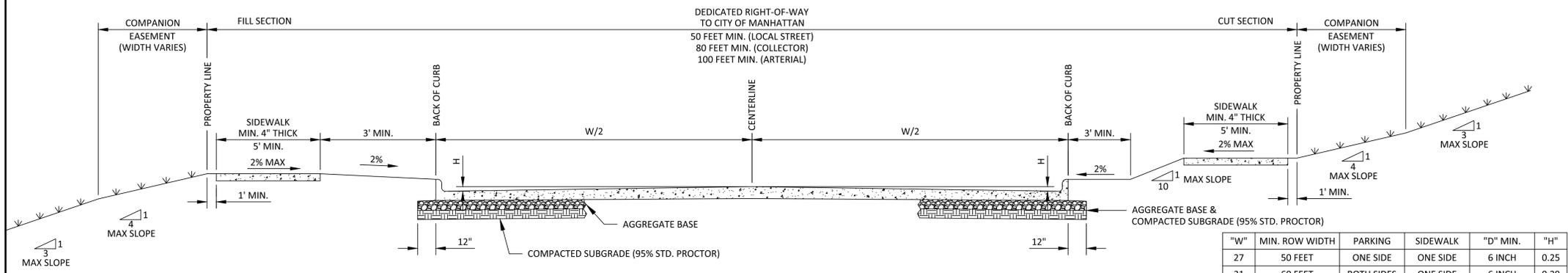
TIE BARS (DEFORMED BARS)		
PAVEMENT DEPTH "D" (IN.)	BAR DIAMETER (IN.)	AVERAGE SPACING (IN.)
6	1/2	24
>6	5/8	24



STREETS 37' AND NARROWER
(NOT TO SCALE)



TYPICAL STREET REINFORCING
(NOT TO SCALE)



TYPICAL STREET SLAB CROSS SECTION
(NOT TO SCALE)

"W"	MIN. ROW WIDTH	PARKING	SIDEWALK	"D" MIN.	"H"
27	50 FEET	ONE SIDE	ONE SIDE	6 INCH	0.25
31	60 FEET	BOTH SIDES	ONE SIDE	6 INCH	0.29
37	60 FEET	BOTH SIDES	ONE SIDE	6 INCH	0.35
41*	80 FEET	NONE	TWO SIDES	8 INCH	0.35
45*	100 FEET	NONE	TWO SIDES	8 INCH	0.39
49*	100 FEET	NONE	TWO SIDES	10 INCH	0.43

* COLLECTORS & ARTERIAL TYPICALLY

"W"	"A"	"B"	"C"	CROSS SLOPE
27	2 @ 6.75'	2 @ 6.75'		2.0%
31	2 @ 7.75'	2 @ 7.75'		2.0%
37	2 @ 9.5'	2 @ 9.0'		2.0%
41	2 @ 9.0'	2 @ 8.0'	1 @ 7.0'	1.8%
45	2 @ 10.0'	2 @ 9.0'	1 @ 7.0'	1.8%
49	2 @ 11.0'	3 @ 10.0'	1 @ 7.0'	1.8%

*WIDTH IS MEASURED FROM BACK OF CURB TO BACK OF CURB

NO.	DATE	DESCRIPTION	BY

City of Manhattan Kansas
PUBLIC WORKS
1101 POYNTZ AVE., MANHATTAN, KS 66502 (785) 587-2415

MANHATTAN STANDARD DETAILS
MSD 2610 CONCRETE PAVING DETAILS

CITY ENGINEER: BRIAN JOHNSON, P.E. DESIGN BY: _____
CITY PROJ. #: _____
DATE: _____ DRAWN BY: _____ PAGE _____ OF _____