INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	EXISTING SHEET
3-15	MAINTENANCE OF TRAFFIC
16-23	SPECIAL DETAILS
24	EXPANSION JOINT DETAILS
25	CENERAL PLAN
26	STAGING PLAN
27-33	EXISTING SHEETS
34-36	DECK RESURFACING DETAILS
37	BEAM REPAIR DETAILS
38	TIPICAL APPROACH SECTION

CITY OF DETROIT IN CO-OPERATION WITH MICHIGAN DEPARTMENT OF TRANSPORTATION

FEDERAL HIGHWAY ADMINISTRATION PLAN FOR BRIDGE REHABILATION PLYMOUTH ROAD OVER ROUGE RIVER STATE BRIDGE NO. : BO1 OF 82000 JOB NO.: 207699A CONTROL SECTION NO. : BHT-82000

THE DESIGN OF THIS STRUCTURE IS BASED ON CURRENT AMERICAN ASSOCIATION OF THE STATE HIGHWAY AND TRANSPORTATION OFFICIALS. (AASHTO), FOR HIGHWAY BRIDGES HE 93 LOADING LIVE LOAD PLUS IMPACT DEFLECTION DOES NOT EXCEED INVO OF THE SPAN LENGTH. THE LIKED METHOD OF DESIGN WAS USED FOR THIS STRUCTURE.

EXCEPT WHERE OTHERWISE INDICTED ON THESE PLANS, THE PROPOSAL AND SUPPLEMENTAL SPECIFICATIONS CONTAINED HEREIN, ALL MATERIALS AND WORKMANSHIP SHALL BE ACCORDANCE WITH THE MICHIGAN
DEPARTMENT OF TRANSPORTATION STANDARDS SPECIFICATIONS FOR CONSTRUCTION 2012 EDITION.

ALL EXPOSED CONCRETE CORNERS SHOWN SQUARE ON THE PLANS SHALL BE BELIEVE WITH 1/2" TRIANGULAR MOLDINGS EXCEPT AS OTHERWISE NOTED.

THE DESIGN OF THE STRUCTRAL MEMBERS IS BASED ON MATERIALS OF THE FOLLOWING CRADES AND STRESSES.

> CONCRETE: CRADE 52 CONCRETE: GRADE D STEEL REINFORCENIENT:

f'c = 3.0000 PSIf'c = 4,500 PSI $\dot{N} = 60,000 PSI$ 6

69

20

82000

CHECKED

BY:

DRAWN

ALL DIMENSIONS ON THISE PLANS ARE IN INCHES EXCEPT AS NOTED.

THE STATIONING AS SHOWN ON THESE PLANS FOR THE INTERSECTION OF THE CENTERLINE OF BRIDGE AND BRIDGE REFERENCE LINES IS BELIEVING TO BE CORRECT. IT SHALL, HOWEVER HE CHECKED AT THE TIME OF STARTING CONSTRUCTION AND IF THE STATIONING SHOWN ON THE PLANS IS INCORRECT, IT SHALL BE REPORTED TO THE DETROIT DEPARTEMENT OF PUBLIC WORK AND THE STRUCTURE SHALL BE STAKE OUT USING THE ACTUAL SECTION OF THE CENTERLINE OF SIDGE AND BRIDGE IN THE UNITED AS THE CONTROL POINT.

BIDDERS WILL BE FURNISHED WITH SCANNED INJAGES OF PLAN SHEETS OF THE EXISTING STRUCTURES IF REQUESTED. JUSE ON ALL PROJECTS WHERE EXISTING STRUCTURE PLANS ARE KNOWN TO EXIST! (I.U. 2-22-2006)

SITY OD DETROIT STANDARD PLANS

HE FOLLOWING ITEMS ARE CALLED FOR ON THE PLANS THEY A TO BE CONSTRUCTED ACCORDING TO THE STANDARDS PLAN GIVEN BELOW OPPOSITE EACH ITEM UNLESS OTHERWISE INDICATED AS INCLUDED IN THE POPOSAL

STANDARD CURB DETAILS	C-4380
DETAIL OF ALLEY RETURN AND DRIVE APPROACH	C-4384
STANDERD SEWER AND DROP MANHOLES	C-4387
MANHOLE FRAME AND COVER	C-4391
FLAT TYPE GRATE AND FRAME	C-4392
DOME CRATE AND FRAME	C-4394
STANDARD CATCH BASING "A" AND FLAT GRATE AND FRAME	C-5028

MDOT STANDARD PLANS

ARE TO BE CONSTRUCTED ACCORDING THE STANDARD PLAN GIVEN BELOW OPPOSITE FACH ITEM UNLESS THE WISE INDICATED. DRIVEWAY OPENING & APPROACHES AND CONCRETE SIDEWALK INTEGRAL CURB AND INTEGRAL CURB & CUTTER B-103.F

MOLDING, BEVEL LIGHT STANDARD ANCHOR BOLT

WHERE THE FOLLOWING ITEMS ARE ALLED FOR ON THE PLANS THEY

MDOT SPECIAL DITAILS

WHERE THE FOLLOWING ITEMS ARE ALLED FOR ON THE PLANS THEY ARE TO BE CONSTRUCTED ACCORDING THE SPECIAL DETAIL GIVEN BELOW OPPOSITE EACH ITEM UNLESS THE WISE INDICATED.

SIDELVALK RAMP DETAILS PLACEMENT OF TAMPORARY CONCRETE BARRIER R-126-1 8-101-G B-25-/ DRAIN CASTING ASSEMBLY FETAILS BRIDGE RAILING, AESTHETIC PARAPET TUPE

"SEE WZO-125-D FOR TEMPORARY TRAFFIC CONTROL DEVICE DETAILS.

UTILITIES

CITY OF DETROIT, PUBLIC LIGHTING DEPT (PLD) 9449 GRINNELL DETROIT, MI 48213 ATTN.: ASHOK PINNAMANENI PHONE NO .: (313) 804-1772

CITY OF DETROIT, DETROIT WATER & SEWERAGE DEPT (DUSD) I MADISON BLDG 1420 WASHINGTON BLVD. SUITE 100 DETROIT, All 48226 ATTN .: RODNEY BURLETT PHONE NO :(313) 267-4863

PUBLIC LIGHTING AUTHORTY 65 CADILLAC SQUARE, SUITE 3100 DETROIT, NII 48226 ATTN .: NIUKESH PATE PHONE NO.:(313) 324-8290

2152 S. 114TH STRFFT WEST ALLIS, WI 53227 PHONE NO.

ELECTRIC, LIGHTING

DETROIT MI J8226 ATTN.: ERIC JONES, FIRE CHIEF PHONE NO. - (313) 596-2900

CITY OF DETROIT

DIE ENERGY

DETROIT MI 48201 ATTN.: LAURA FORRESTER PHONE NO.: (313) 389-7261

FIBER OPTIC

5 PROJECT LOCATION

FIRE

DOVER

JOY

 \leq

WADSWORT

MICHIGAN CONSOLIDATED GAS CO. (MCG) GAS MAIN REPLACEMENT TEAM, 2ND FLOOR 3200 HOBSON

ORANGELAWN WEST CHICAGO AZELTON MEADOWPARK RIVER ROUGE PARK

SPINOZA

CSX

PLYMOUTH

N.

PIERSON CT

TRAFFIC DATA: COMMERCIAL % DESIGN SPEED

POSTED SPEED

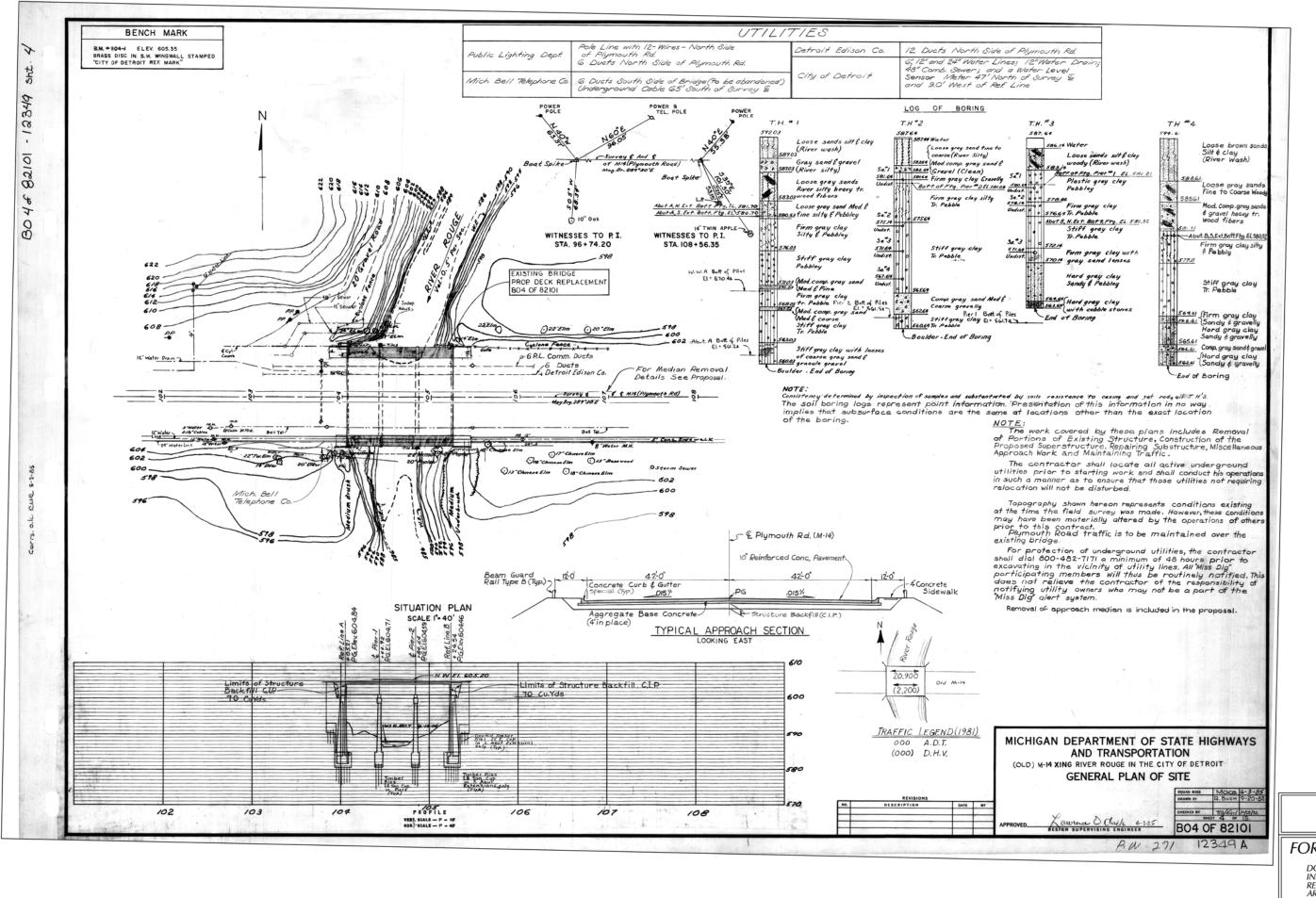
2020 2040 22930 1207 12696 1172

BHT-82000

FOR PLYMOUTH ROAD BRIDGE OVER ROUGE RIVER LOCAL AUTHORITY APPROVAL CITY OF DETROIT CITY ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS 17121 MAHER ELSALTI MAHER ELSANT ELSALTI ENGINEER No. 6201065111 CONTROL SECTION ACM ACTIVITIES

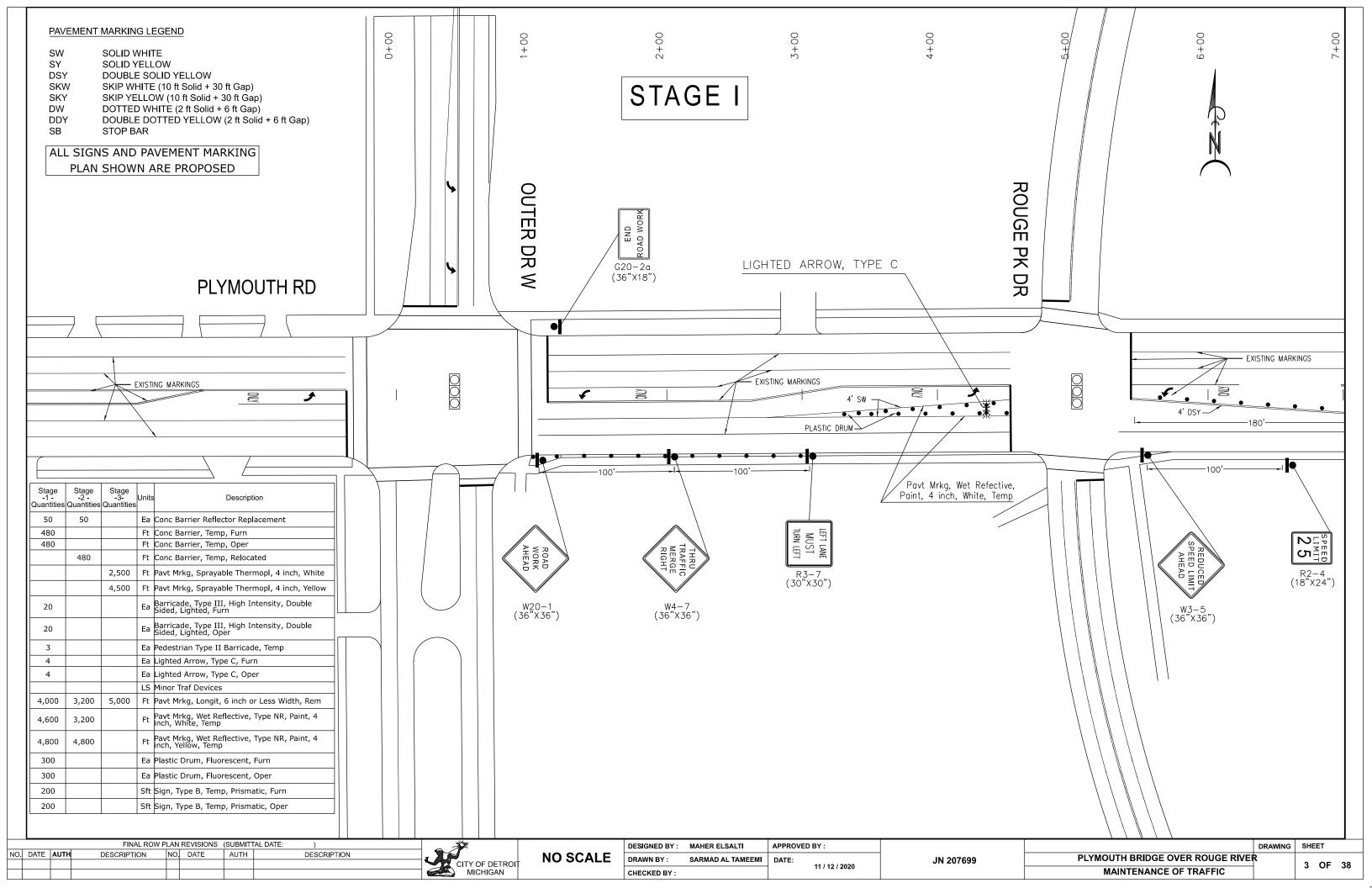
CONTRACT FOR STRUCTURE REHABILITATION AND RELATED APPROACH WORK

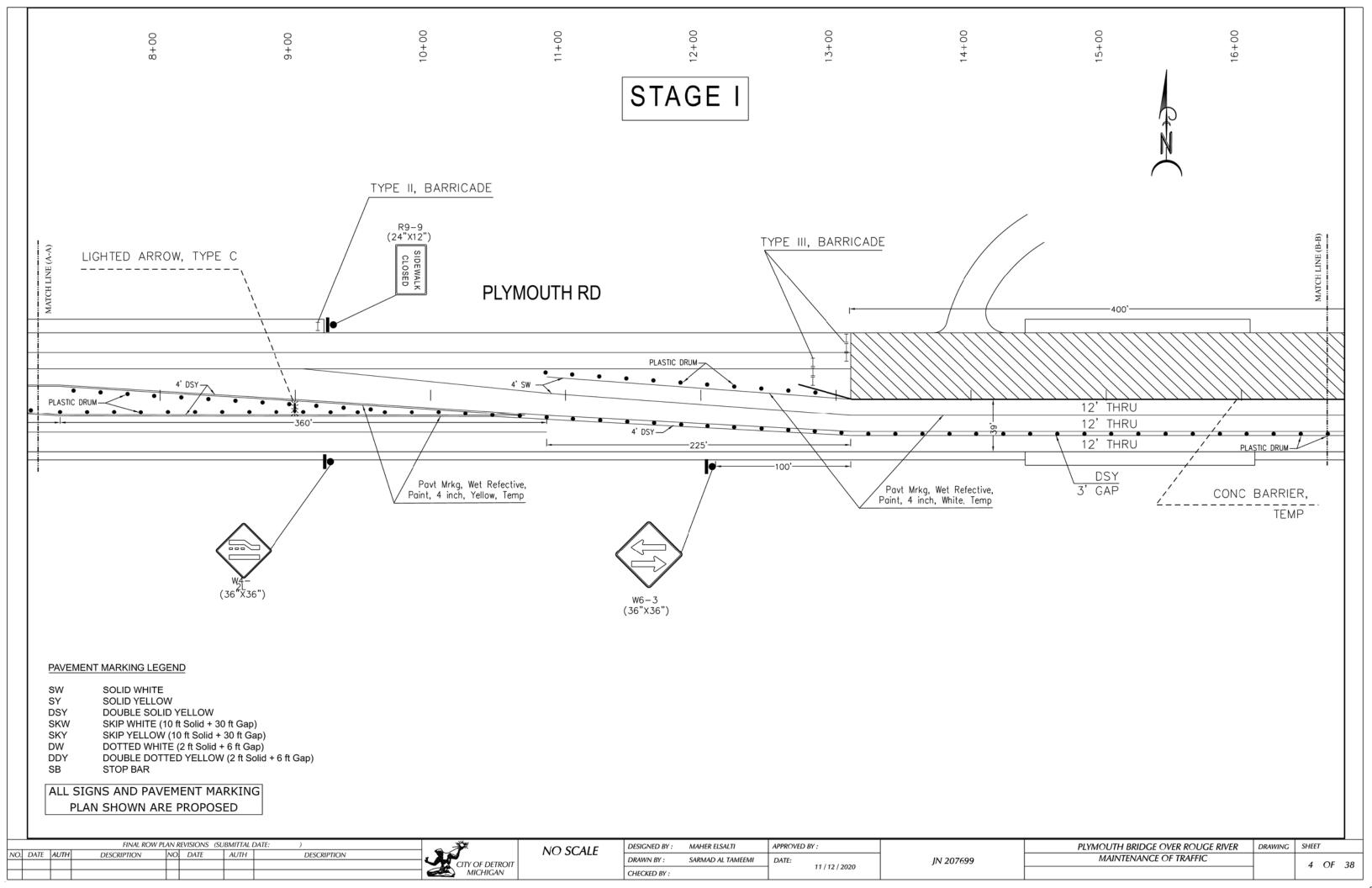
207699

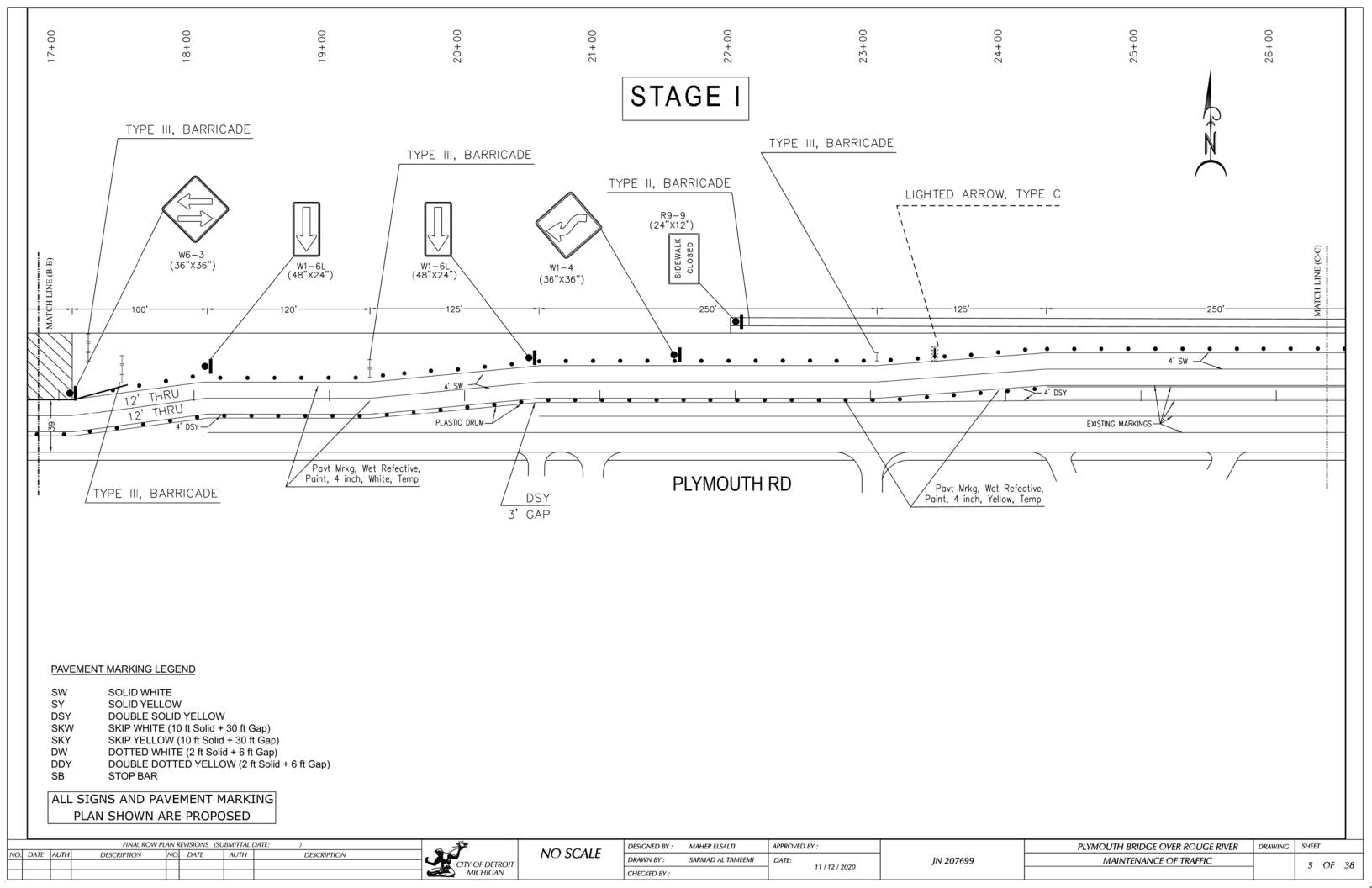


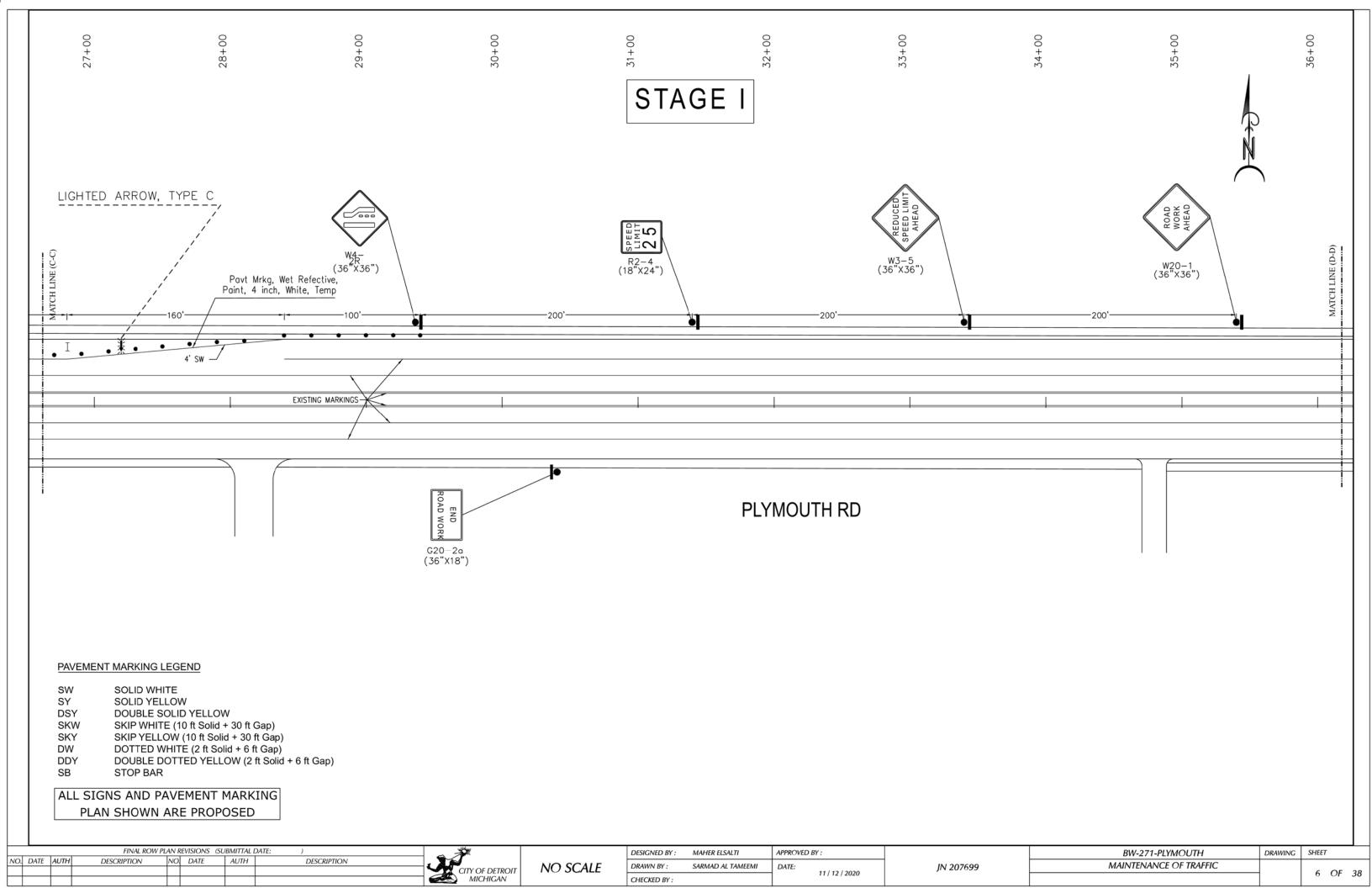
FOR INFORMATION ONLY

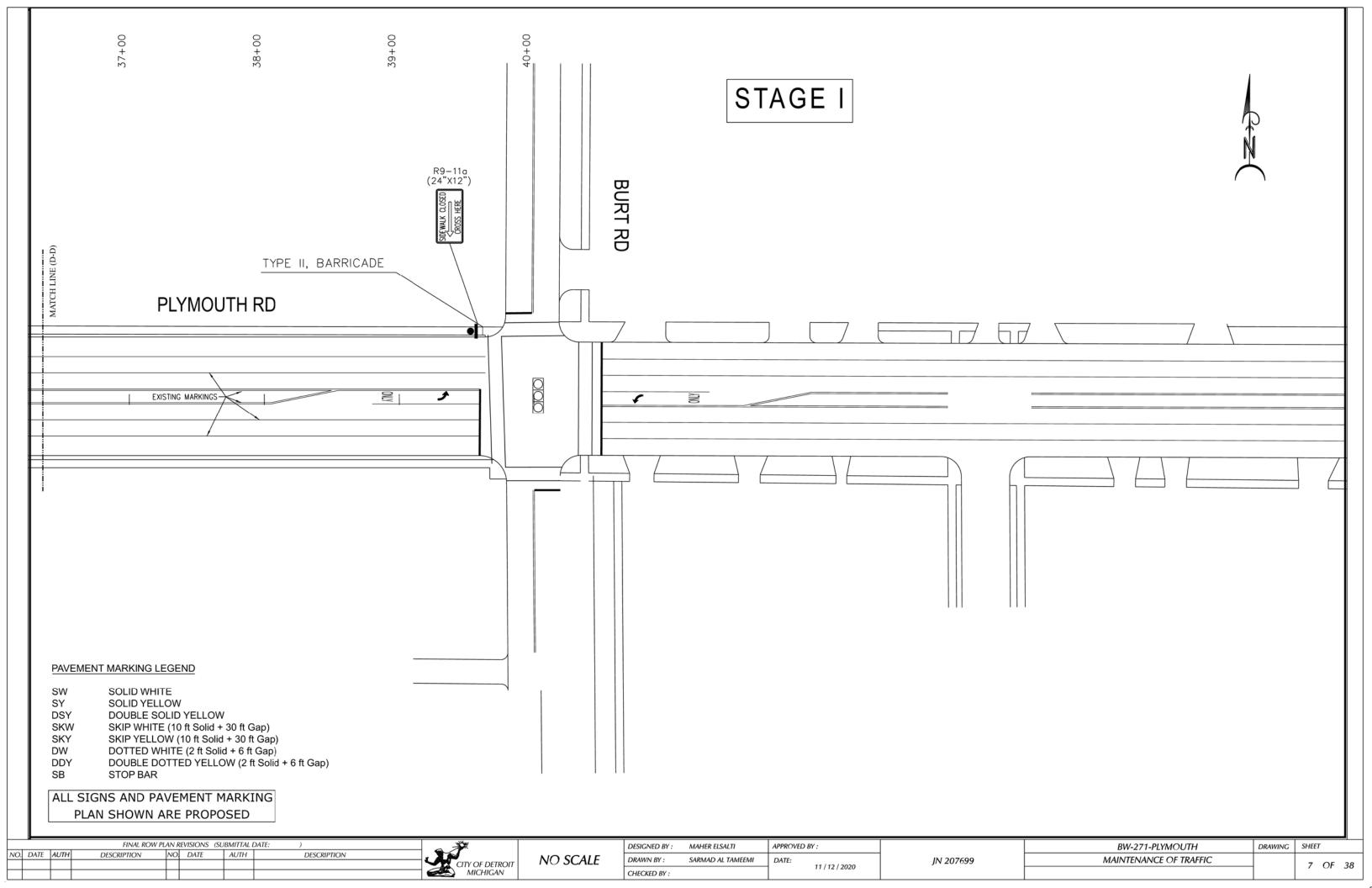
	FINAL ROW PL	LAN REVISIONS (SU)			DESIGNED BY :	MAHER ELSALTI	APPROVED BY:	CS: BHT-82000	BW-271-PLYMOUTH	DRAWING	SHEET
NO. DATE AUTH	DESCRIPTION	NO. DATE	AUTH	DESCRIPTION	□. ૧ .	NO SCALE	DDAWAL DV .	SARMAD AL TAMEEMI	DATE	1	EVICTING CLIEFT		
					CITY OF DETRO	I NO SCALE	DRAWN BY :	SARMAD AL TAMEEMI	DATE: 11 / 12 / 2020		EXISTING SHEET		2 OF 38
					MICHIGAN	1	CHECKED BY :		11/12/2020	JN: 207699A			

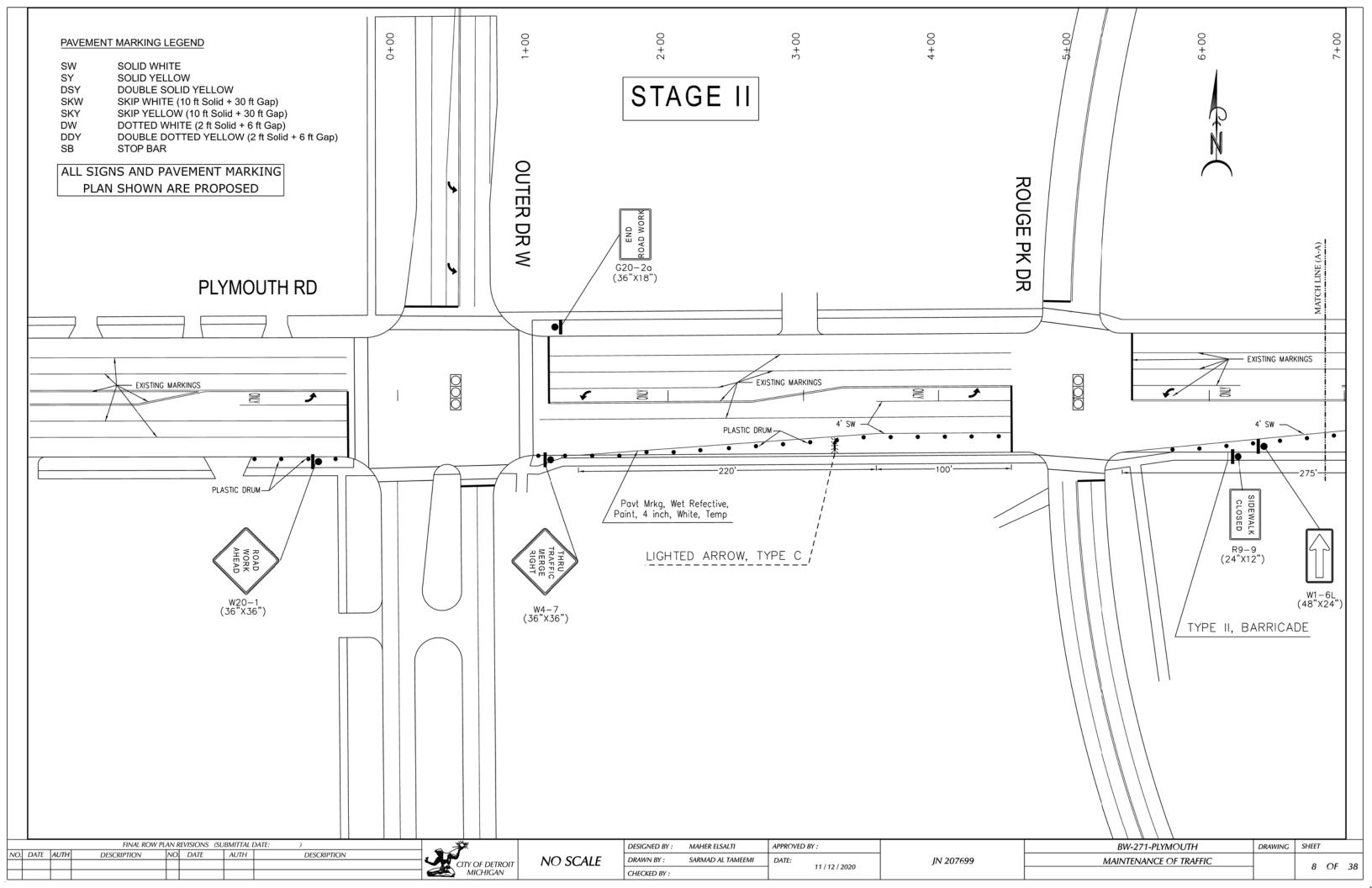


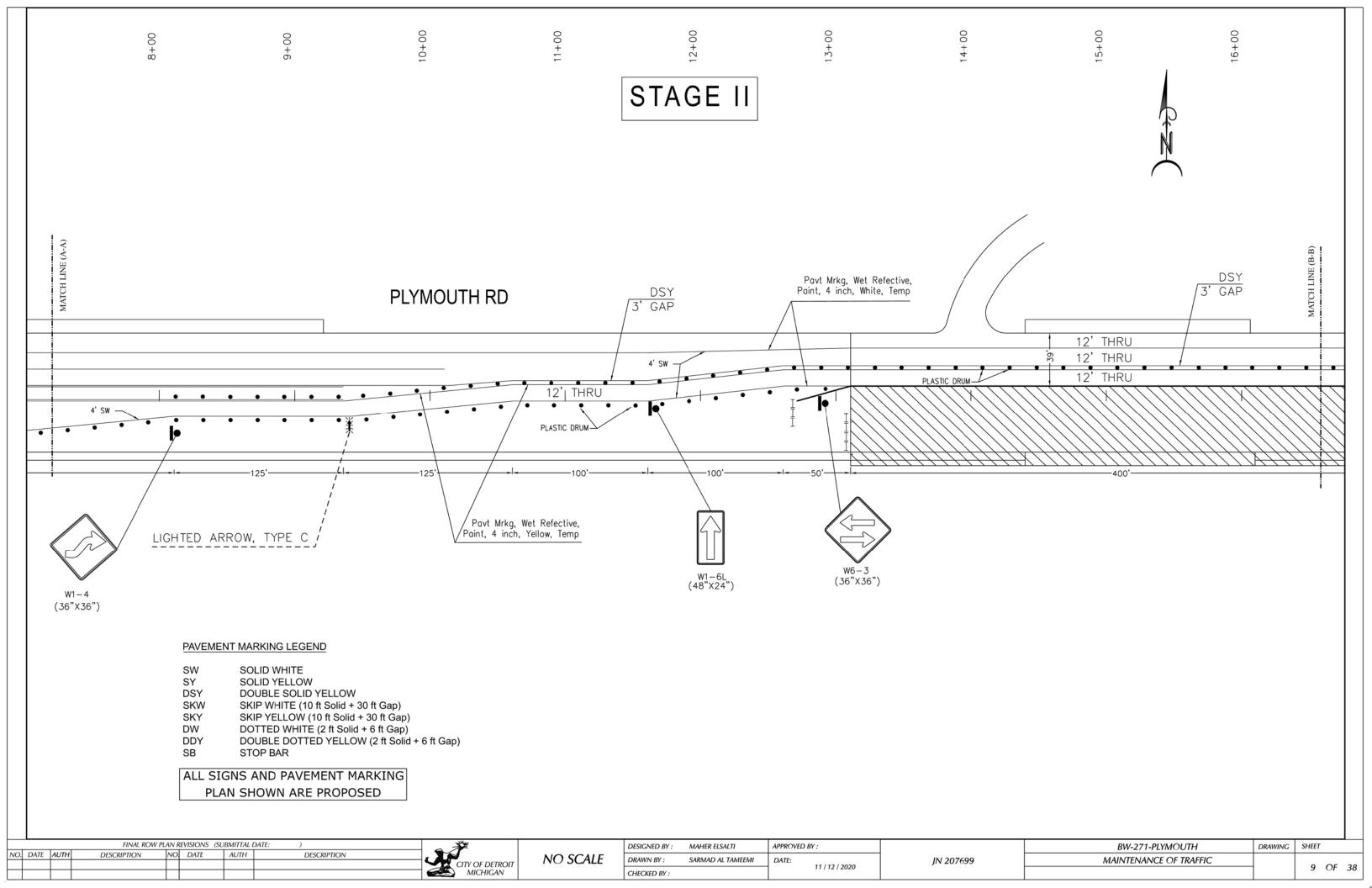


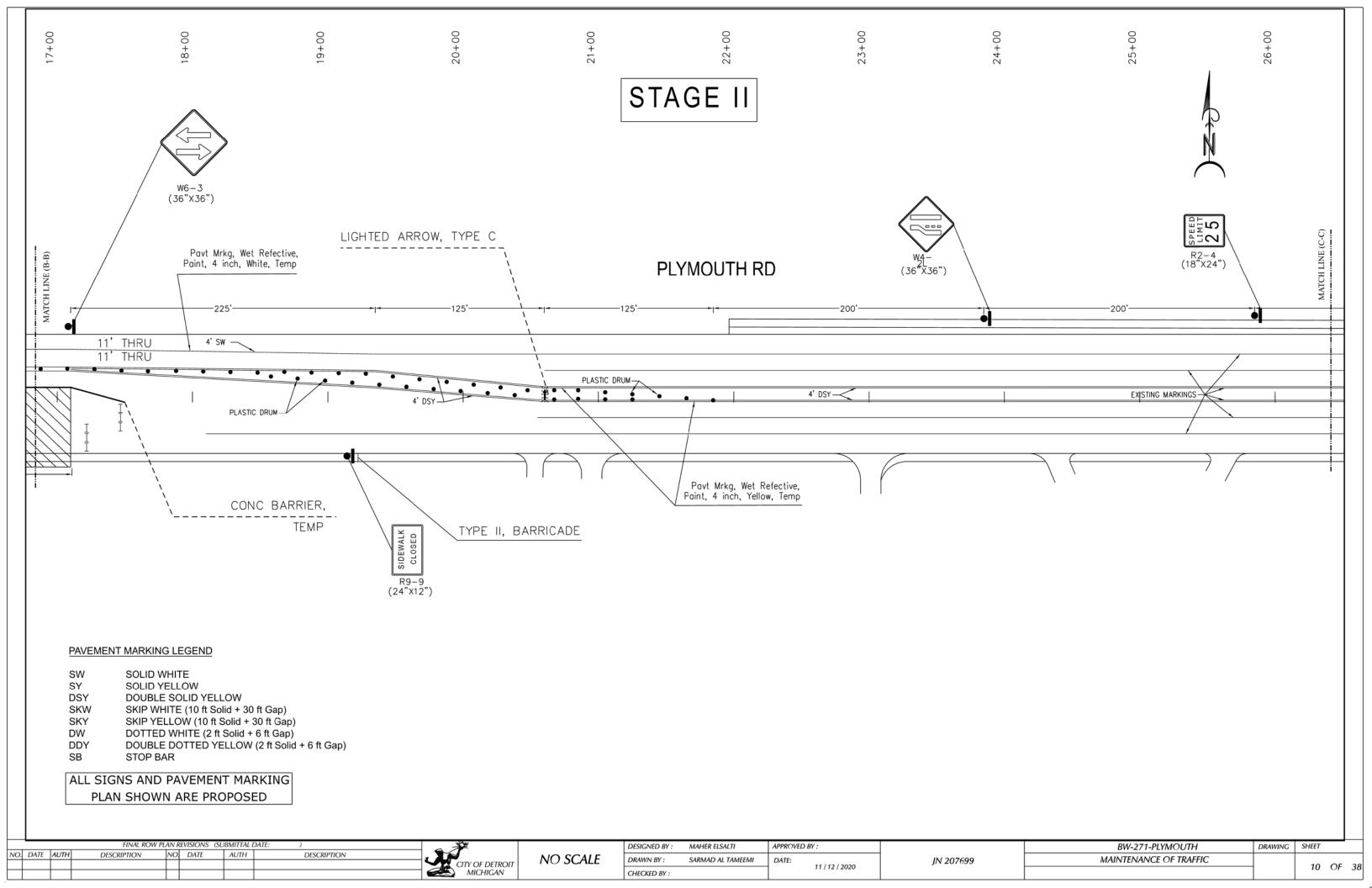


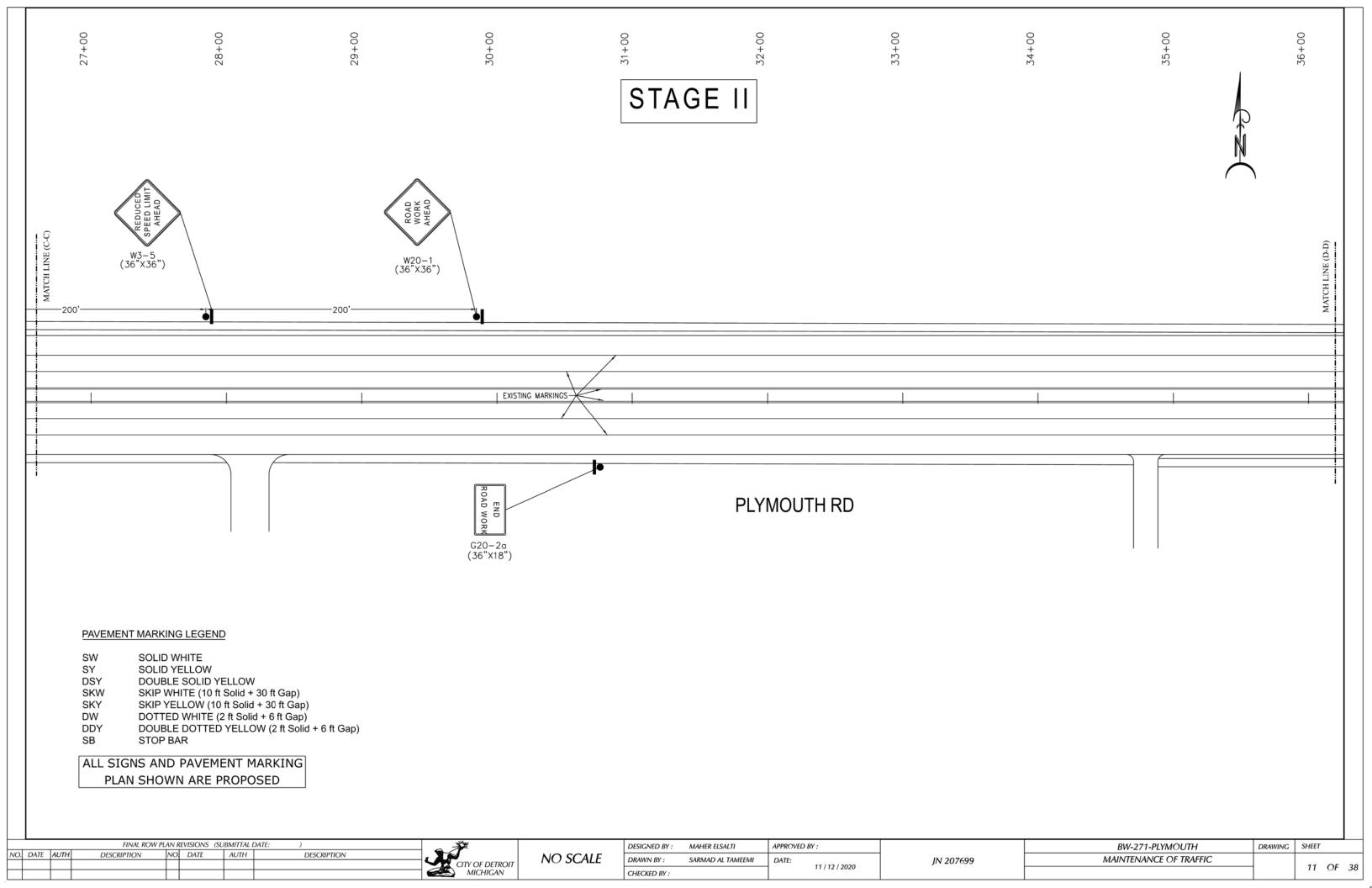


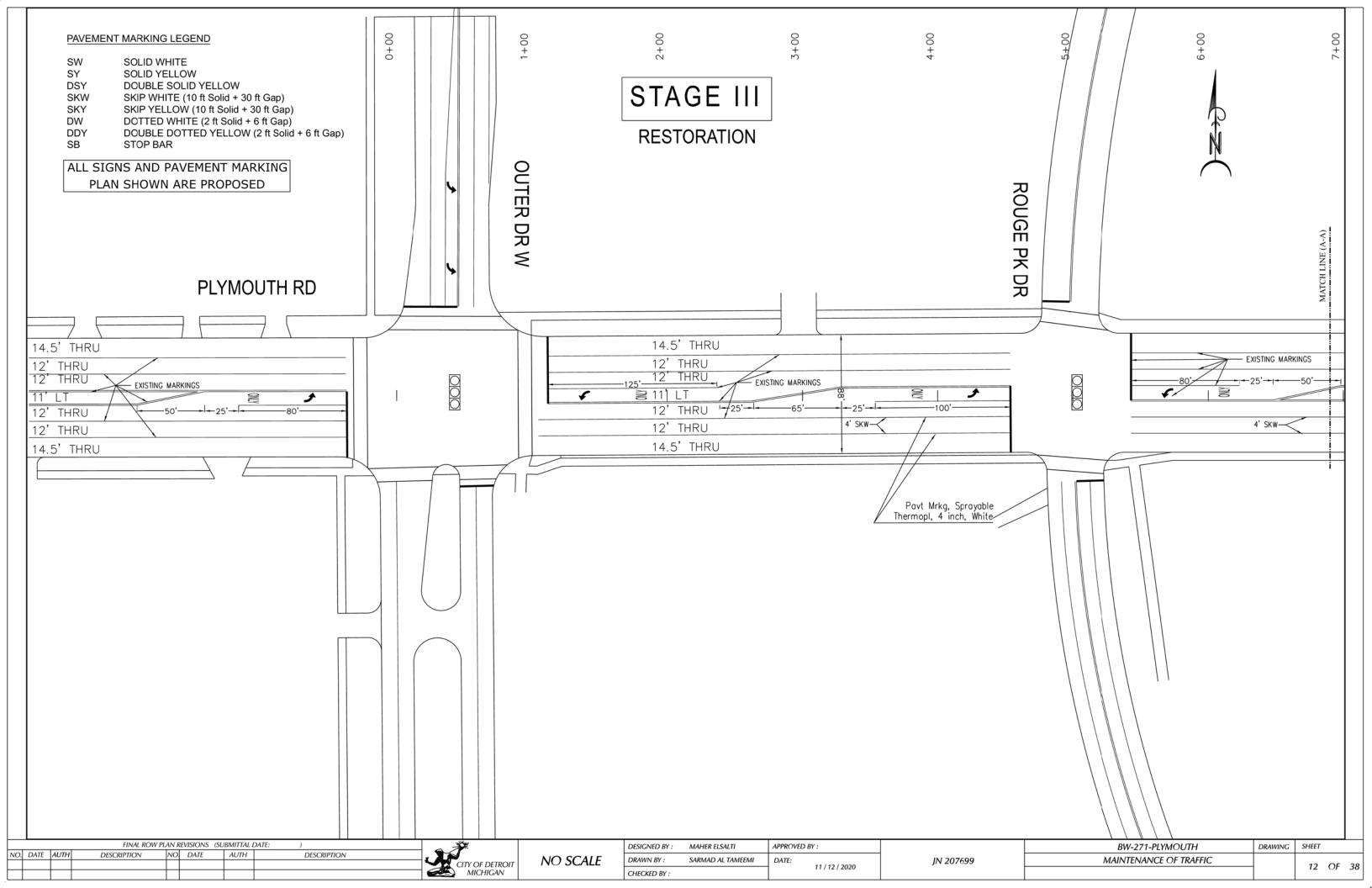


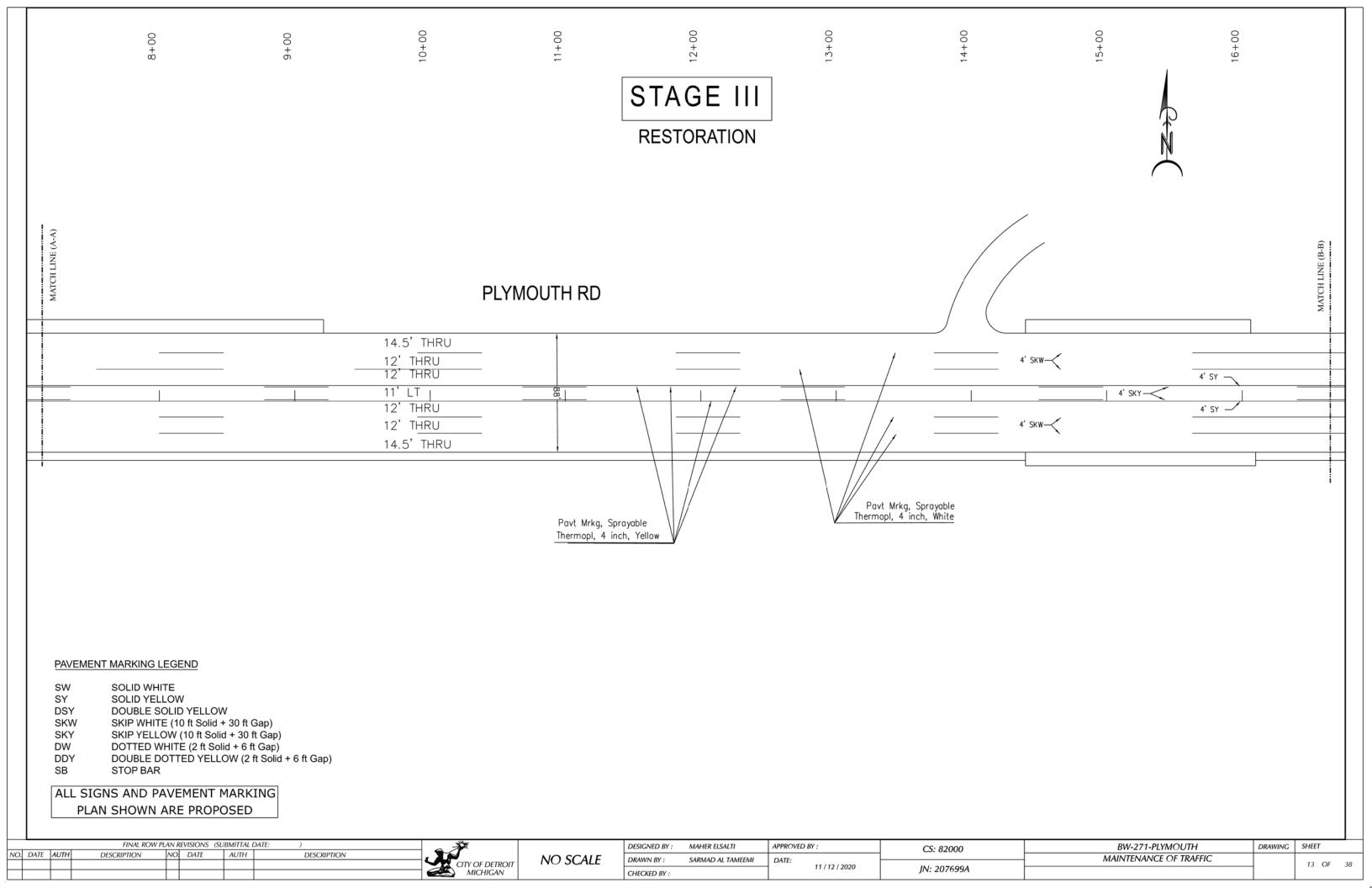


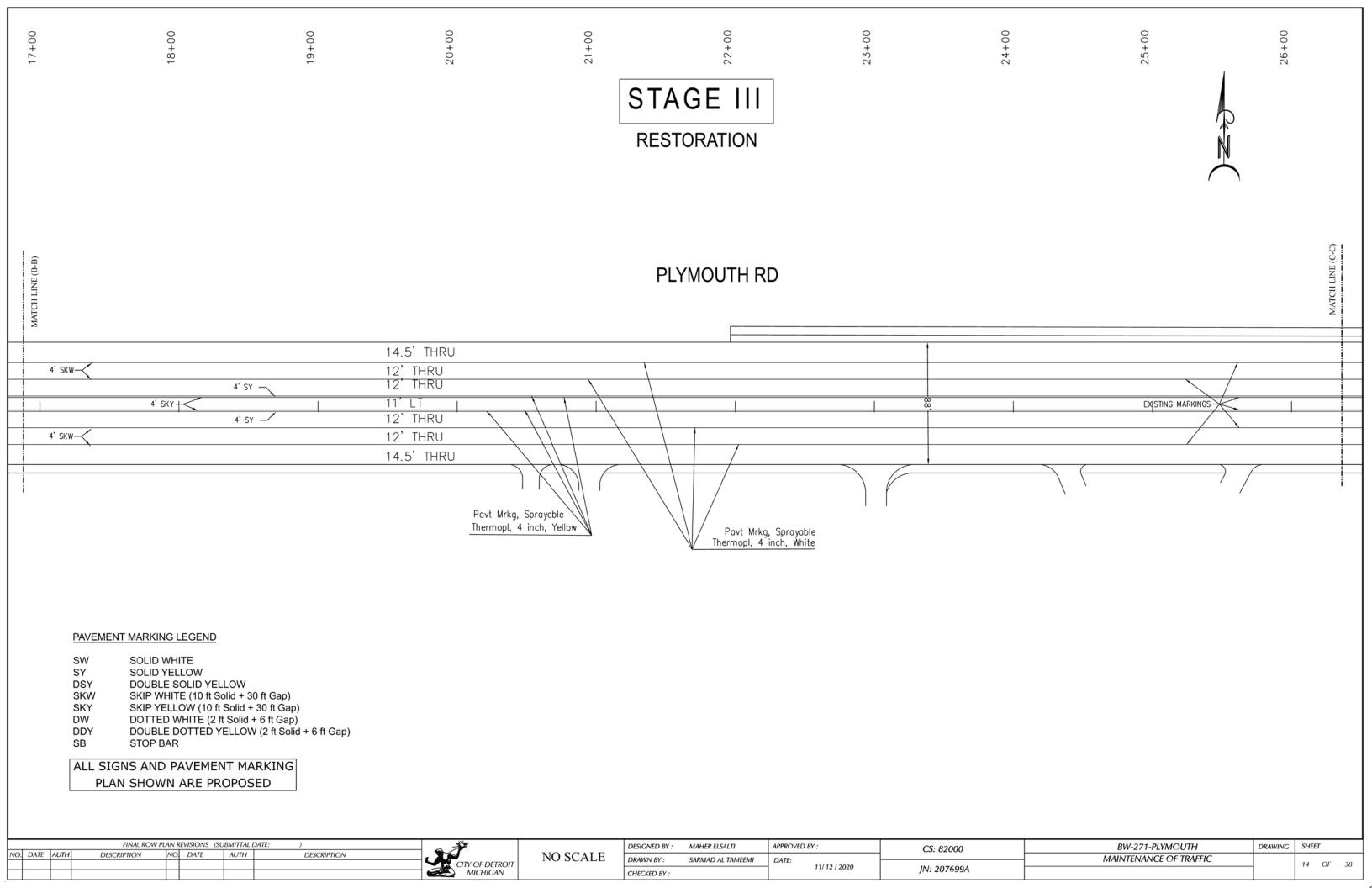


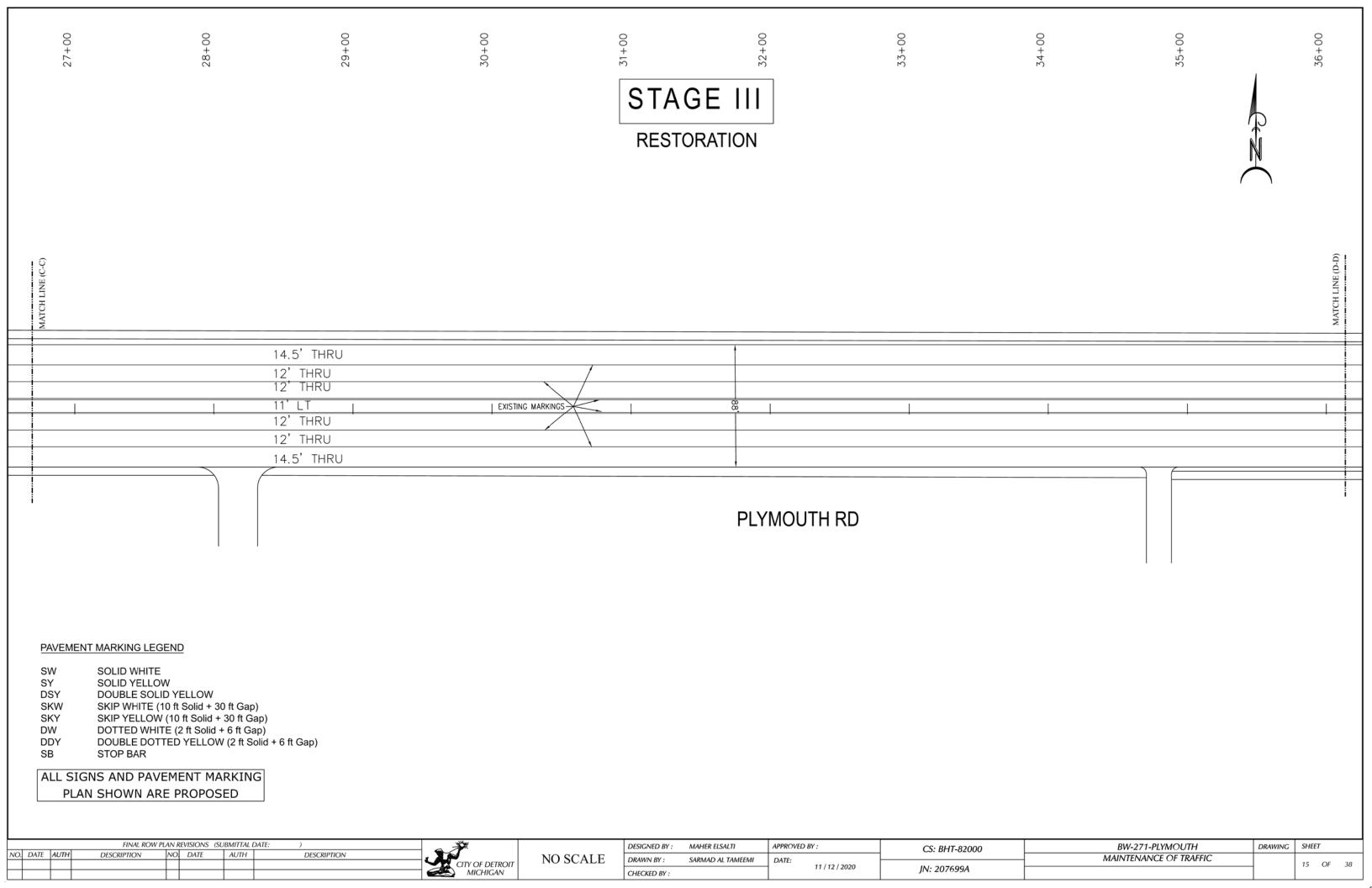


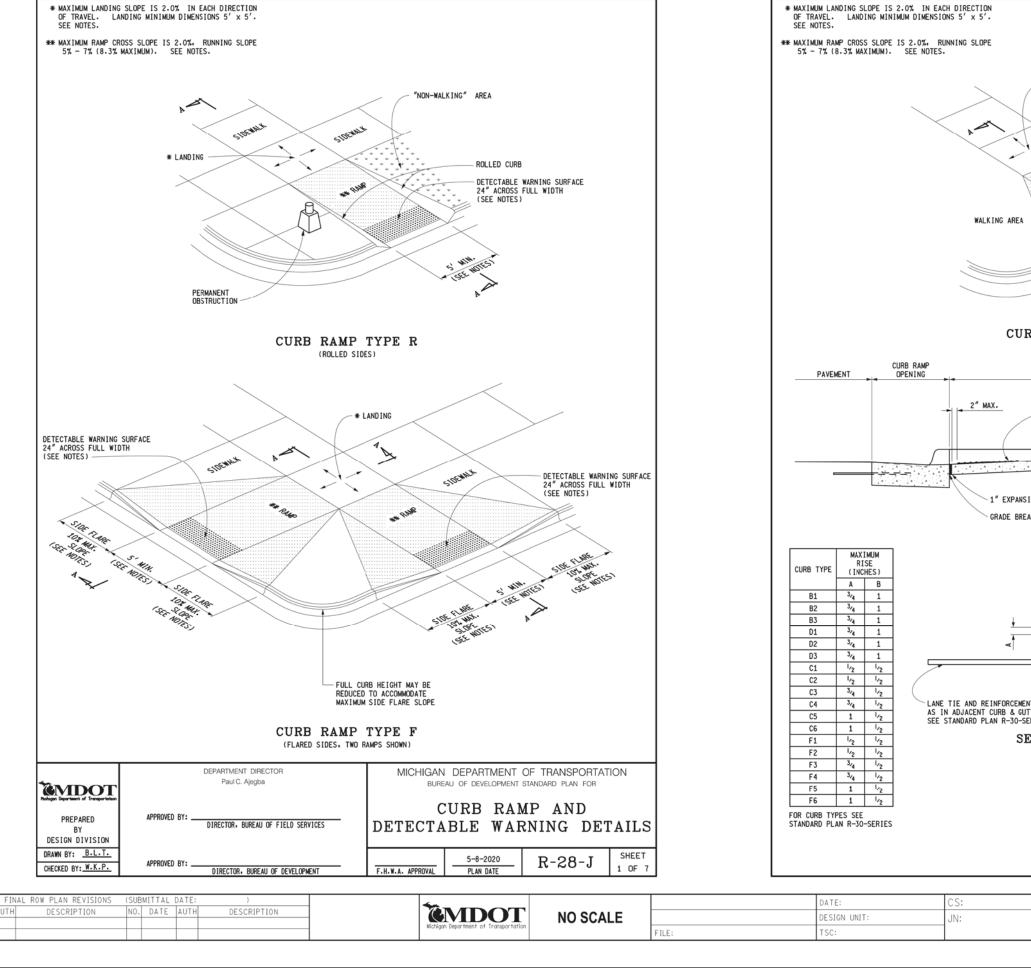


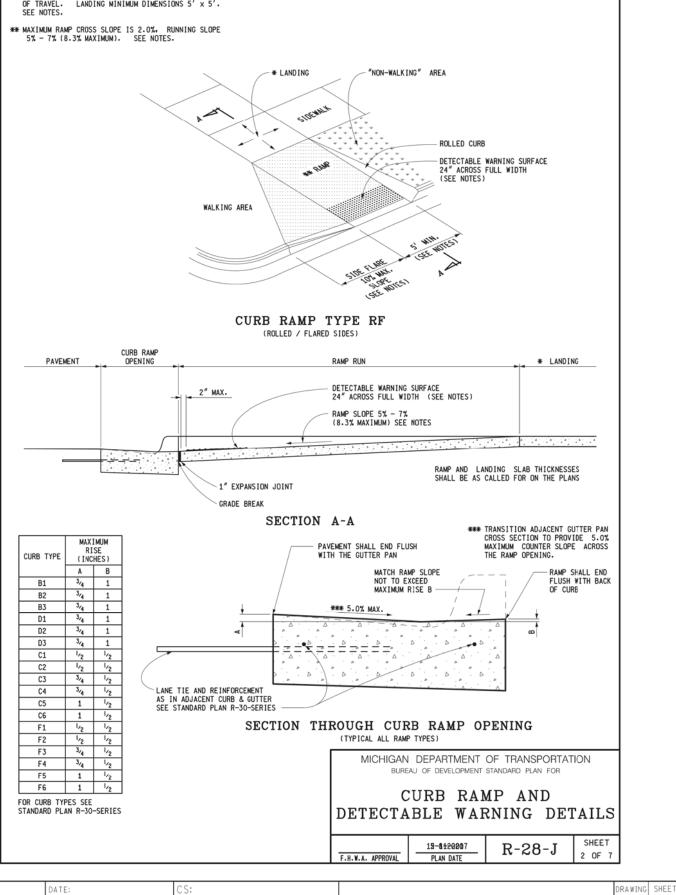






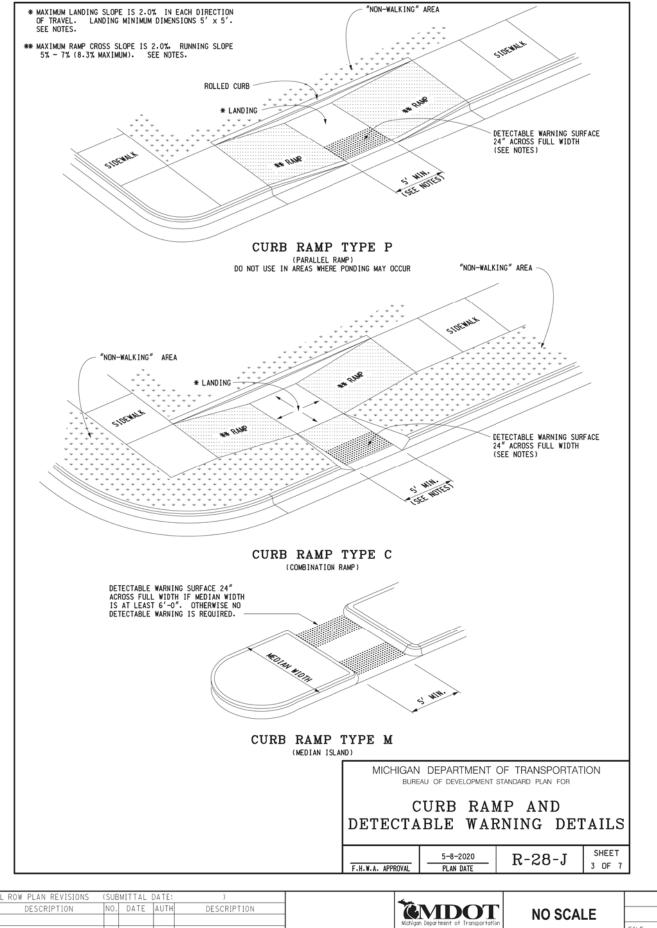


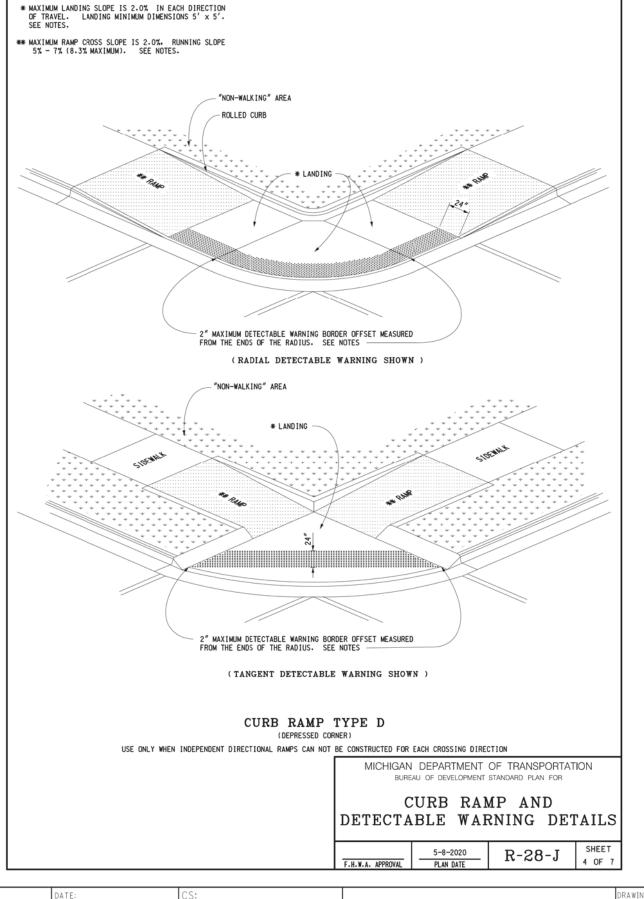




NO	. DATE AUTH	DESCRIPTION	NO. DATE AUT	H DESCRIPTION	EMDOT	NO SCALE		DESIGN UNIT:	JN:	SECT
					Michigan Department of Transportation		FILE:	TSC:		
_										

L	FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)			DATE:)	<i>*</i>		DESIGNED BY :	MAHER ELSALTI	APPROVED BY :	CS: BHT-82000	BW-271-PLYMOUTH	DRAWING	SHEET			
Λ	NO. DATE AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION	」. ∑	NO SCALE	DRAWN BY .	SARMAD AL TAMEEMI	DATE:		SPECIAL DETAILS			
Г							CITY OF DETROI	I NO SCALE	DICAWN DI :	SARMAD AL TAMEEMI	11 / 12 / 2020	W. 2076004	SI ECIAL DETAILS	1	16 OF	38
t							MICHIGAN		CHECKED BY:		7771272020	JN: 207699A				

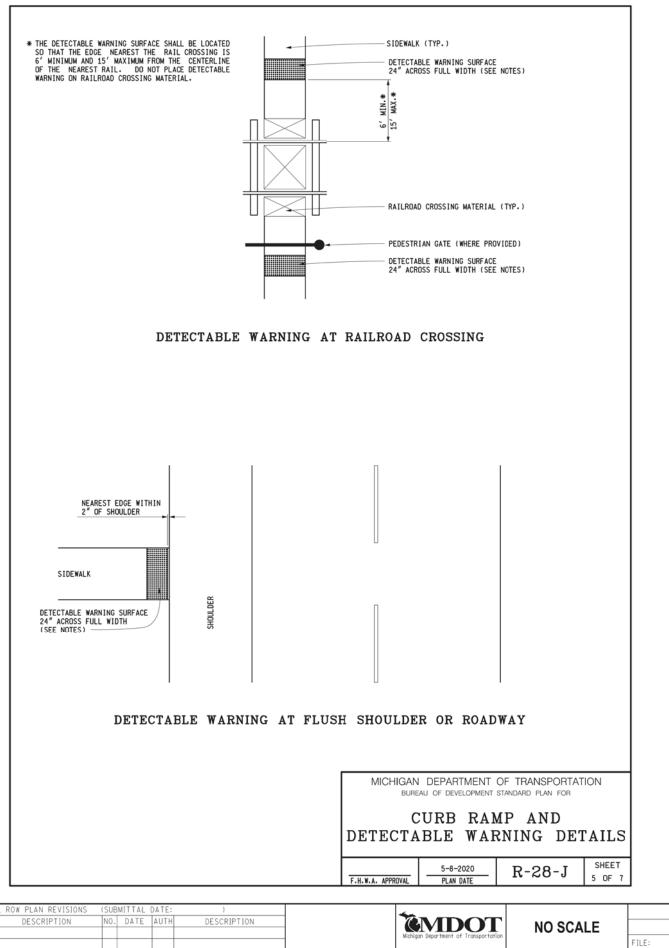


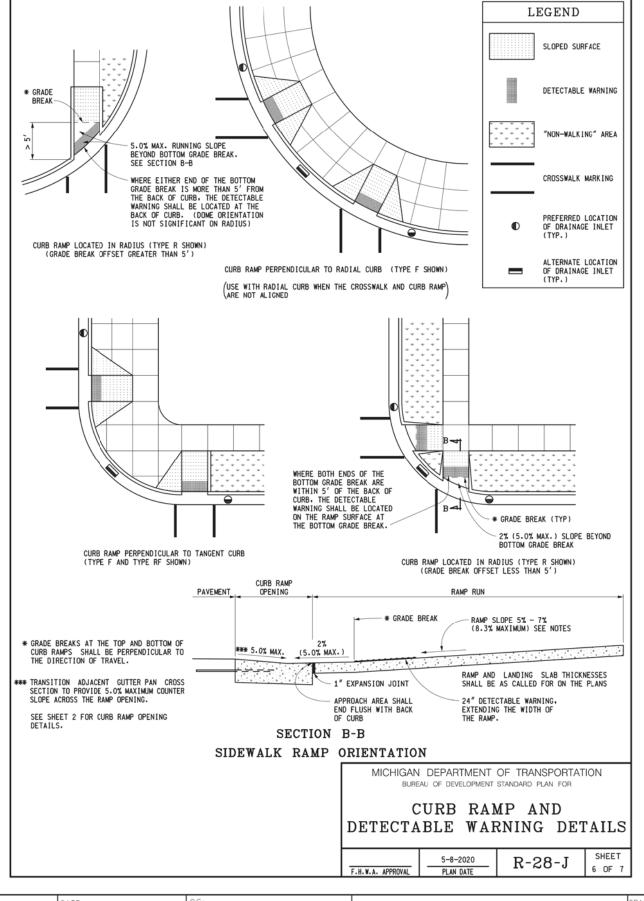


		FIN	DATE:)			
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

	DATE:	CS:	DRAWING	SHEET
	DESIGN UNIT:	JN:		SECT
FILE:	TSC:			

		W PLAN REVISIONS (S		:)	— — <i>*</i>		DESIGNED BY: MAHER ELSALTI APPROVED BY: CS: BHT-82000		BW-271-PLYMOUTH	DRAWING	SHEET		
NO. DATE AUTH	DESCRIPTION	NO. DATE	AUTH	DESCRIPTION	CITY OF DETROIT	NO SCALE	DRAWN BY:	SARMAD AL TAMEEMI	DATE:		SPECIAL DETAILS		
					CITY OF DETROIT	I NO SCALE	DIONWIN BT :	SAKWAD AL TAWEEWI	11 / 12 / 2020	#1.00 = 5004	SPECIAL DETAILS	_	17 OF 38
					MICHIGAN		CHECKED BY:		11/12/2020	JN: 207699A			

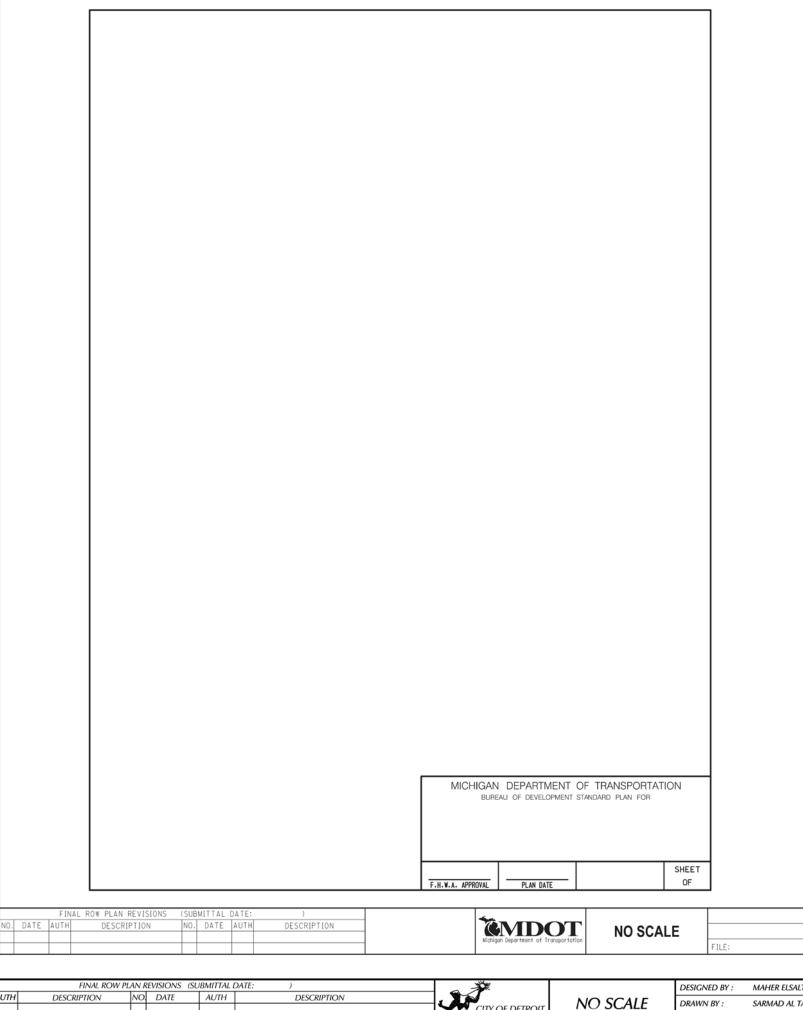


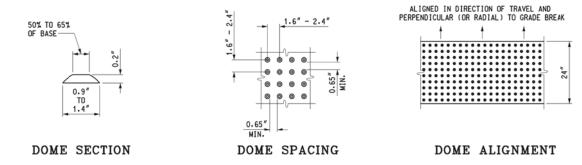


		FIN	IAL ROW PLAN REVISIONS	(SUB	MITTAL D	DATE:)
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

	DATE:	CS:	DRAWING	SHEET
	DESIGN UNIT:	JN:		SECT
FILE:	TSC:			

		FINAL ROW	PLAN RI	EVISIONS (SU		DATE:)		1	DESIGNED BY :	MAHER ELSALTI	APPROVED BY:	CS: BHT-82000	BW-271-PLYMOUTH	DRAWING	SHEET	
NO. DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION		NO SCALE	DRAWN RY	SARMAD AL TAMEEMI	DATE:		SPECIAL DETAILS			
							CITY OF DETROIT	INO SCALE	DICAWIN BI :	SARMAD AL TAMEEMI	11 / 12 / 2020	11. 2076004	SECIAL DETAILS	1	18 OF	38
	\top		\top				MICHIGAN MICHIGAN		CHECKED BY:		77/12/2020	JN: 207699A				





DETECTABLE WARNING DETAILS

NOTES:

DETAILS SPECIFIED ON THIS PLAN APPLY TO ALL CONSTRUCTION-RECONSTRUCTION. OR ALTERATION OF STREETS. CURBS, OR SIDEWALKS IN THE PUBLIC RIGHT OF WAY.

CURB RAMPS ARE TO BE LOCATED AS SPECIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

RAMPS SHALL BE PROVIDED AT ALL CORNERS OF AN INTERSECTION WHERE THERE IS EXISTING OR PROPOSED SIDEWALK AND CURB. RAMPS SHALL ALSO BE PROVIDED AT MARKED AND/OR SIGNALIZED MID-BLOCK CROSSINGS

SURFACE TEXTURE OF THE RAMP SHALL BE THAT OBTAINED BY A COARSE BROOMING, TRANSVERSE TO THE RUNNING SLOPE.

SIDEWALK SHALL BE RAMPED WHERE THE DRIVEWAY CURB IS EXTENDED ACROSS THE WALK.

CARE SHALL BE TAKEN TO ASSURE A UNIFORM GRADE ON THE RAMP. WHERE CONDITIONS PERMIT, IT IS DESIRABLE THAT THE SLOPE OF THE RAMP BE IN ONLY ONE DIRECTION, PARALLEL TO THE DIRECTION OF TRANCE

RAMP WIDTH SHALL BE INCREASED, IF NECESSARY, TO ACCOMMODATE SIDEWALK SNOW REMOVAL EQUIPMENT NORMALLY USED BY THE MUNICIPALITY.

WHEN 5' MINIMUM WIDTHS ARE NOT PRACTICABLE, RAMP WIDTH MAY BE REDUCED TO NOT LESS THAN 4' AND LANDINGS TO NOT LESS THAN

CURB RAMPS WITH A RUNNING SLOPE ≤5% DO NOT REQUIRE A TOP LANDING. HOWEVER, ANY CONTINUOUS SIDEWALK OR PEDESTRIAN ROUTE CROSSING THROUGH OR INTERSECTING THE CURB RAMP MUST INDEPENDENTLY MAINTAIN A CROSS SLOPE NOT GREATER THAN 2% PERPENDICULAR TO 1TS OWN DIRECTION(S) OF TRAVEL.

DETECTABLE WARNING SURFACE COVERAGE IS 24" MINIMUM IN THE DIRECTION OF RAMP/PATH TRAVEL AND THE FULL WIDTH OF THE RAMP/PATH OPENING EXCLUDING CURBED OR FLARED CURB TRANSITION AREAS. A BORDER OFFSET NOT GREATER THAN 2" MEASURED ALONG THE EDGES OF THE DETECTABLE WARNING IS ALLOWABLE. FOR RADIAL CURB THE OFFSET IS MEASURED FROM THE ENDS OF THE RADIUS.

FOR NEW ROADWAY CONSTRUCTION, THE RAMP CROSS SLOPE MAY NOT EXCEED 2.0%. FOR ALTERATIONS TO EXISTING ROADWAYS, THE CROSS SLOPE MAY BE TRANSITIONED TO MEET AN EXISTING ROADWAY GRADE. THE CROSS SLOPE TRANSITION SHALL BE APPLIED UNIFORMLY OVER THE FULL LENGTH OF THE RAMP.

THE MAXIMUM RUNNING SLOPE OF 8.3% IS RELATIVE TO A FLAT (0%) REFERENCE. HOWEVER, IT SHALL NOT REQUIRE ANY RAMP OR SERIES OF RAMPS TO EXCEED 15 FEET IN LENGTH NOT INCLUDING LANDINGS OR TRANSITIONS.

DRAINAGE STRUCTURES SHOULD NOT BE PLACED IN LINE WITH RAMPS. THE LOCATION OF THE RAMP SHOULD TAKE PRECEDENCE OVER THE LOCATION OF THE DRAINAGE STRUCTURE. WHERE EXISTING DRAINAGE STRUCTURES ARE LOCATED IN THE RAMP PATH OF TRAVEL. USE A MANUFACTURER'S ADA COMPLIANT GRATE. OPENINGS SHALL NOT BE GREATER THAN 1-2". ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.

THE TOP OF THE JOINT FILLER FOR ALL RAMP TYPES SHALL BE FLUSH WITH THE ADJACENT CONCRETE.

CROSSWALK AND STOP LINE MARKINGS, IF USED, SHALL BE SO LOCATED AS TO STOP TRAFFIC SHORT OF RAMP CROSSINGS. SPECIFIC DETAILS FOR MARKING APPLICATIONS ARE GIVEN IN THE "MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

FLARED SIDES WITH A SLOPE OF 10% MAXIMUM, MEASURED ALONG THE ROADSIDE CURB LINE. SHALL BE PROVIDED WHERE AN UNOBSTRUCTED CIRCULATION PATH LATERALLY CROSSES THE CURB RAMP. FLARED SIDES ARE NOT REQUIRED WHERE THE RAMP IS BORDERED BY LANDSCAPING, UNPAYED SURFACE OR PERMANENT FIXED OBJECTS. WHERE THEY ARE NOT REQUIRED, FLARED SIDES CAN BE CONSIDERED IN ORDER TO AVOID SHARP CURB RETURNS AT RAMP OPENINGS.

DETECTABLE WARNING PLATES MUST BE INSTALLED USING FABRICATED OR FIELD CUIT UNITS CAST AND/OR ANCHORED IN THE PAVEMENT TO RESIST SHIFTING OR HEAVING.

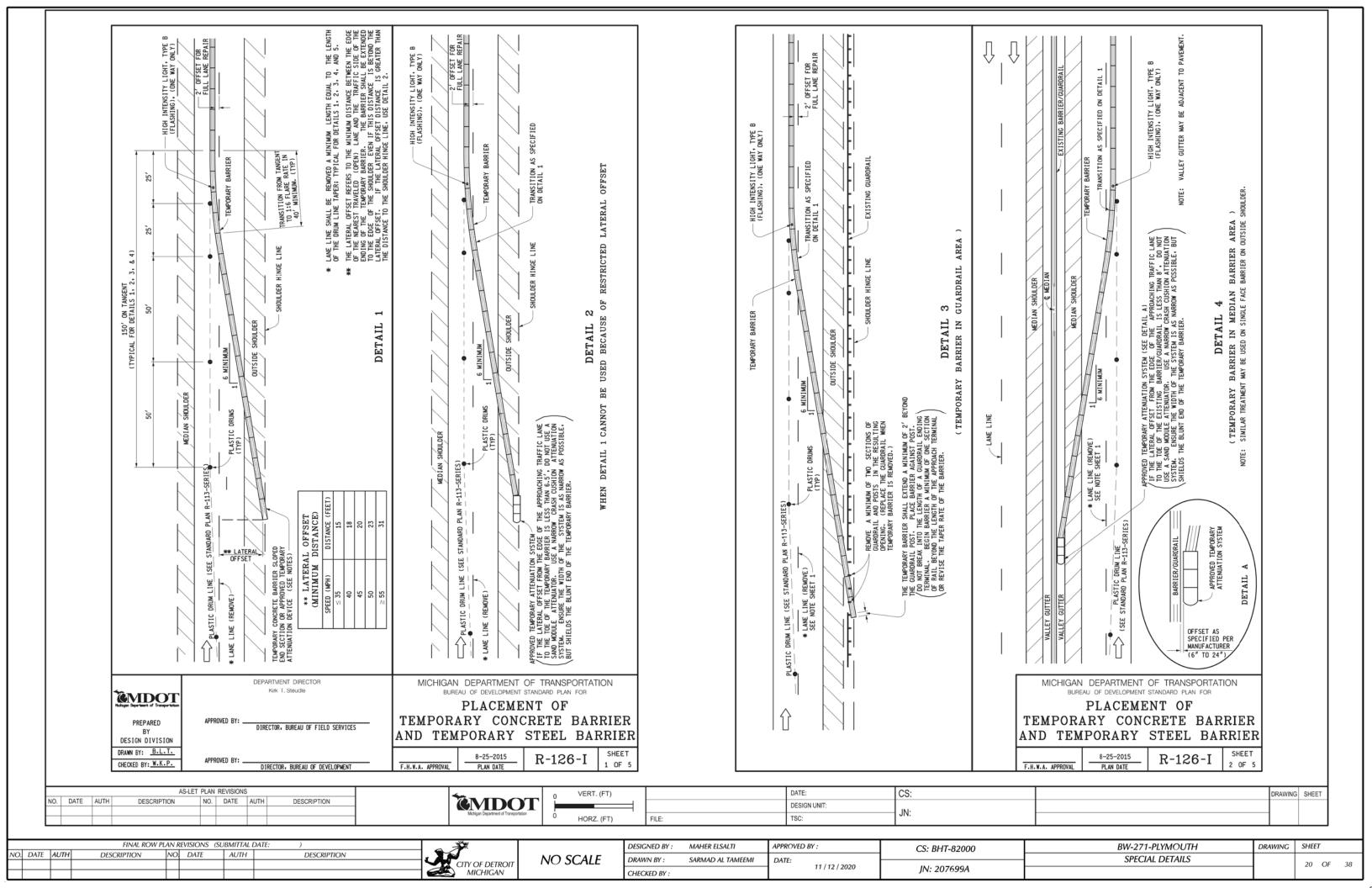
MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF DEVELOPMENT STANDARD PLAN FOR

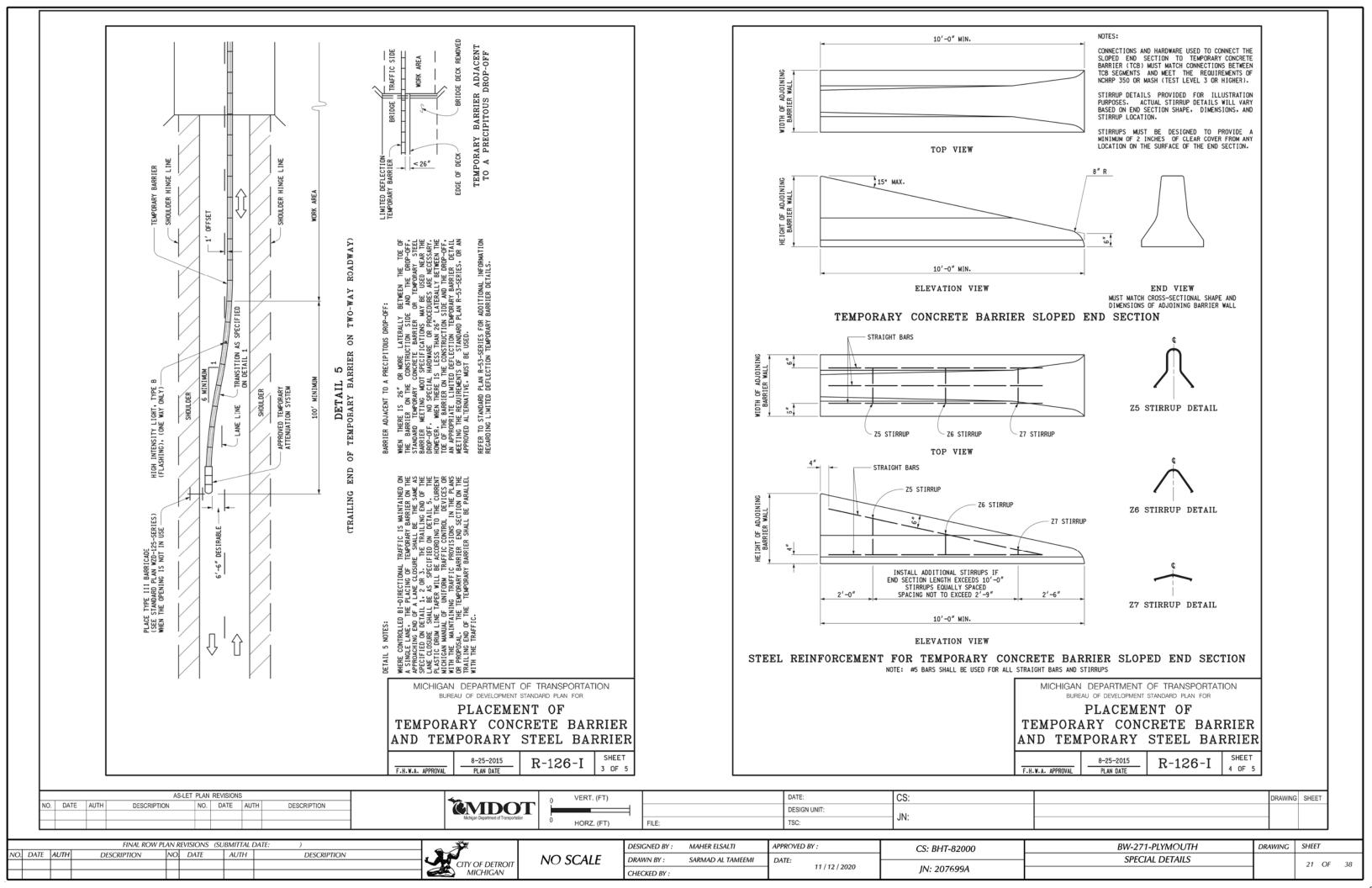
CURB RAMP AND DETECTABLE WARNING DETAILS

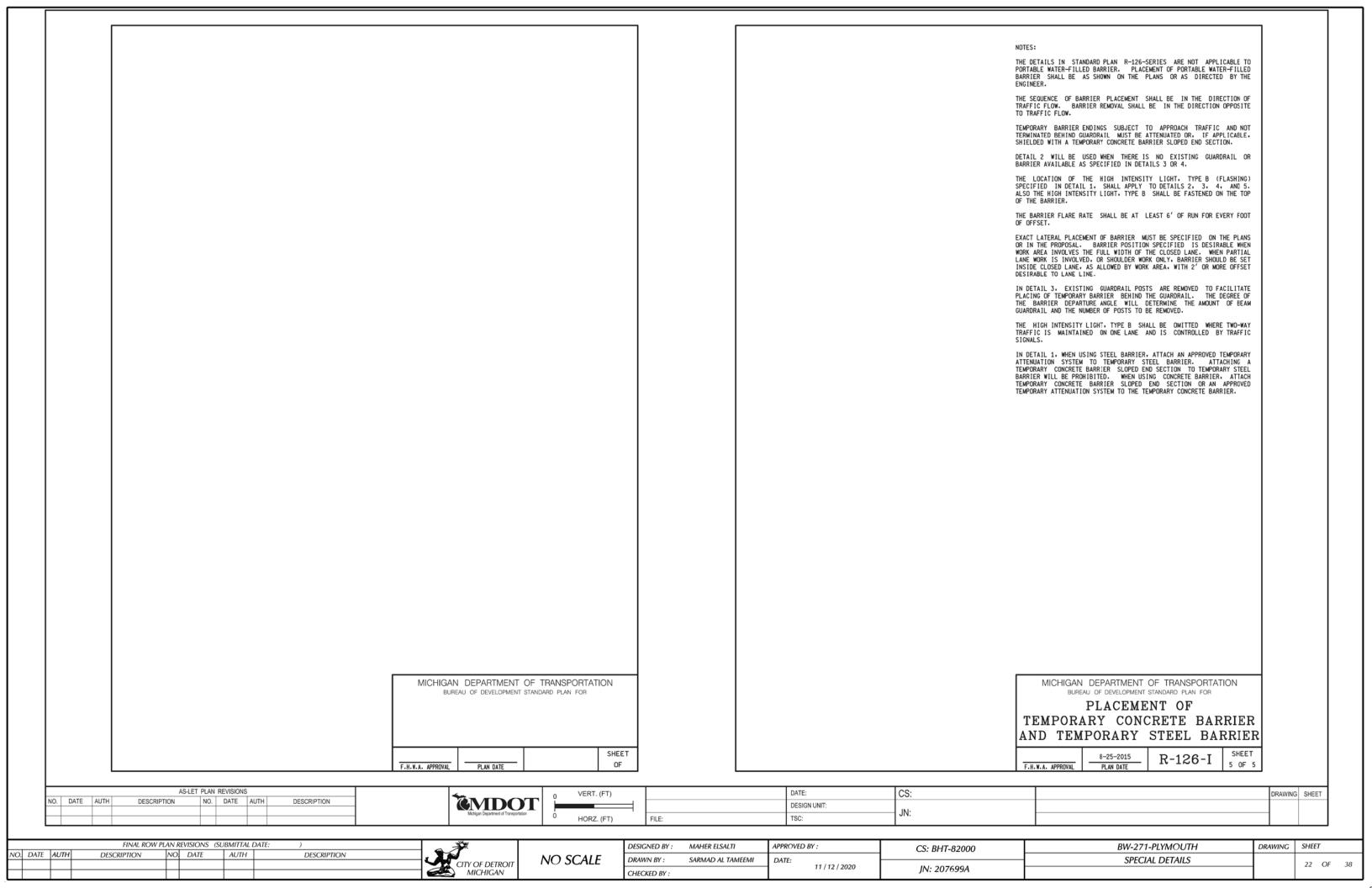
	5-8-2020	R-28-J	SHEET
F.H.W.A. APPROVAL	PLAN DATE	K-20-1	7 OF 7

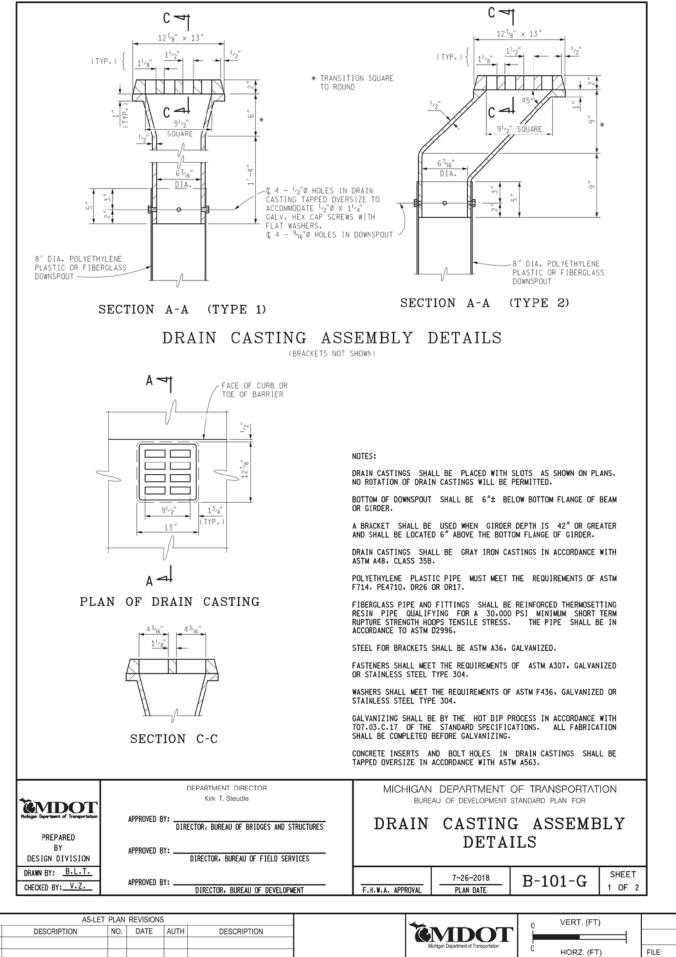
		DATE:	CS:	DRAWING	SHEET
Ε		DESIGN UNIT:	JN:		SECT
	FILE:	TSC:			

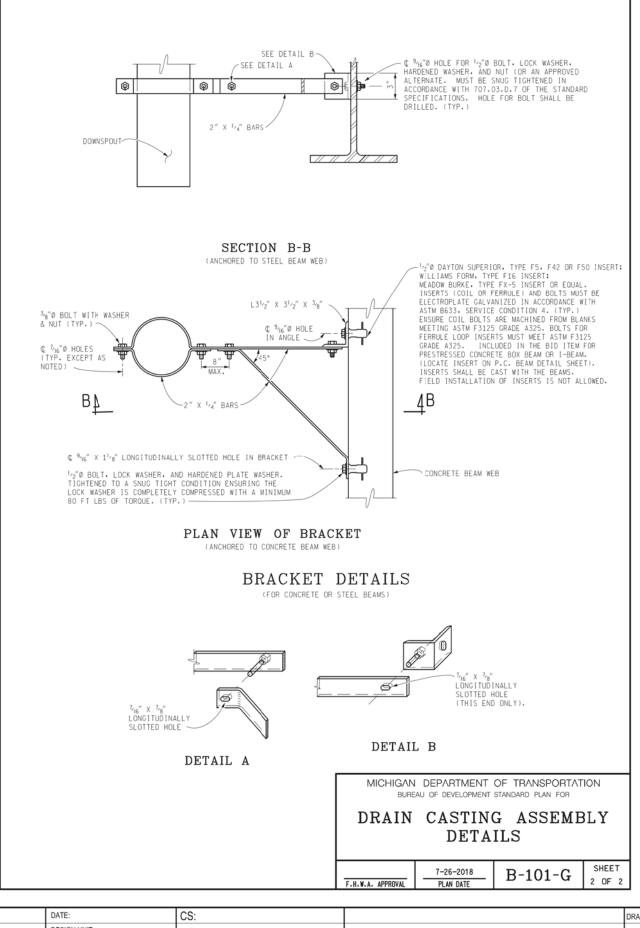
FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)			DESIGNED BY :	MAHER ELSALTI	APPROVED BY:	CS: BHT-82000	BW-271-PLYMOUTH	DRAWING	SHEET
NO. DATE AUTH DESCRIPTION NO DATE AUTH DESCRIPTION	. 💓	NO SCALE	DRAWN BY :	SARMAD AL TAMEEMI	DATE:	CO. DITT-02000	SPECIAL DETAILS		
	CITY OF DETROIT MICHIGAN	NO SCALL	CHECKED BY :	or down to the indirection	11 / 12 / 2020	JN: 207699A	31 E 31 / 11 E 3	1	19 OF 38











AS-LET PLAN EVISION
NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION

NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION NO. DATE AUTH DES

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE DESIGNED BY: MAHER ELSALTI APPROVED BY **BW-271-PLYMOUTH** DRAWING SHEET CS: BHT-82000 NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION NO SCALE SARMAD AL TAMEEMI SPECIAL DETAILS DRAWN BY : DATE: CITY OF DETROIT 23 OF 38 11 / 12 / 2020 JN: 207699A CHECKED BY

SIDEWALK SECTIONS

ALL STEEL FOR COVER PLATE SHALL BE AASHTO M270, GRADE 36, MEET THE REQUIREMENTS OF ASTM A786 AND GALVANIZED (ASTM A123).

USE ASTM F 593 (TYPE 304) STAINLESS STEEL 3#4" OR 1#2" DIAMETER FLATHEAD COUNTERSUNK SCREWS WITH 3#4" OR 1#2" DIAMETER INSERTS OR FLUSH TYPE EXPANSION ANCHORS WITH A MINIMUM ALLOWABLE OR SAFE WORKING TENSION LOAD CAPACITY OF 1200 POUNDS.

CAST CURBS AND SIDEWALKS WITH 3#8" SUDING PLATES IN PLACE TO INSURE THAT INSERTS AND SCREWS ARE ALIGNED PROPERLY. APPLY BOND BREAKER TO SUDING PLATES PRIOR TO INSTALLATION.

FORM CONCRETE RECESS AREA IN SIDEWALK AND GRIND TO PROVIDE SMOOTH SURFACE. TOOL OR GRIND CONCRETE EDGES TO 1#4" RADIUS. APPLY ONE COAT OF EPOXY RESIN ADHESIVE TO ALLOW BENT SUDING PLATE TO MOVE FREELY WITHOUT FRICTION. CARE SHALL BE TAKEN SO THAT NO ADHESIVE COMES IN CONTACT WITH ANY PART OF THE EXPANSION JOINT DEVICE OR CLAND. REMOVE ANY FOREIGN PARTICLES FROM THE SURFACE PRIOR TO INSTALLING PLATES.

INSTALL PLATES SO THAT THE SCREWS AND INSERTS ARE SET ON THE HIGH SIDE OF LONGITUDINAL SIDEWALK GRADE.

THE COST OF ALL MATERIALS AND LABOR REQUIRED FOR PROPER INSTALLATION OF THE COVER PLATE IS INCLUDED IN THE PAYMENT FOR THE EXPANSION JOINT DEVICE COVER PLATE.

NOTES:

JOINT TYPES

THE EXPANSION JOINT DEVICE SHALL BE OF A TYPE THAT INCLUDES A CONTINUOUS NEOPRENE (OR EQUIVALENT) SEAL ACROSS THE DECK. UNLESS OTHERWISE NOTED ON THE PUNNS, THE CONTRACTOR HAS THE OPTION OF USING ANY OF THE DEVICES LISTED BELOW:

DEVICE	WAINCHACTURER
WABO STRIP SEAL - TYPE	W WATSON-BOWMAN & ACME, INC.
WABO STRIP SEAL - TYPE	A WATSON-BOWMAN & ACME, INC.
STEELFLEX-SSA2	
STEELFLEX-SSCM	D.S. BROWN
ONFLEX 40 SS	STRUCTURAL RUBBER PRODUCTS CO.
ONFLEX 40 SSA	STRUCTURAL RUBBER PRODUCTS CO.

THE MODEL OF THE JOINT TYPE SELECTED SHALL BE SUITABLE TO ACCOMMODATE THE TOTAL MOVEMENT NOTED ON THE PLANS.

COMPLETE WORKING DRAWINGS OF ALL DETAILS OF FABRICATION OF THE EXPANSION JOINT DEVICE SHALL BE SUBMITTED FOR REVIEW IN ACCORDANCE WITH STANDARD SPECIFICATION 104, 02. THIS REQUIREMENT IS WAVED FOR EXPANSION JOINT DEVICES FOR WHICH A SET OF STANDARD INSTALLATION DETAILS CAN BE OBTAINED FROM THE DESIGN DIVISION.

FABRICATION AND INSTALLATION

REMOVE SHIPPING BOLTS PRIOR TO PLACEMENT OF CONCRETE.

THE EXPANSION JOINT SHALL BE SHOP FABRICATED TO CONFORM TO THE CONTOUR OF THE BRIDGE DECK, BARRIERS, ETC. IT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS SUBJECT TO NOTES HEREIN AND THE APPROVAL OF THE ENGINEER.

TIE DECK REINFORCING STEEL TO STEEL FRAME ANCHORS TO MAXIMUM EXTENT PRACTICABLE WITHOUT DAMAGING GALVANIZED OR FPONY COATINGS. THE TOP OF THE EXPANSION JOINT DEVICE SHALL BE SET 1#4" - 3#8" BELOW THE CONCRETE SLAB (PAVEMENT).

THE STEEL ANCHORAGE FOR STRIP SEAL GLANDS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH SUBSECTION 707.03C.17 OF THE STANDARD SPECIFICATIONS.

THE AREA OF THE STEEL ANCHORAGE AND SEALING GLAND WHICH WILL BE IN CONTACT WITH A SEALANT, OR LUBRICANT-ADHESIVE SHALL BE CLEANED WITH TOLUENE OR OTHER APPROVED SOLVENT.

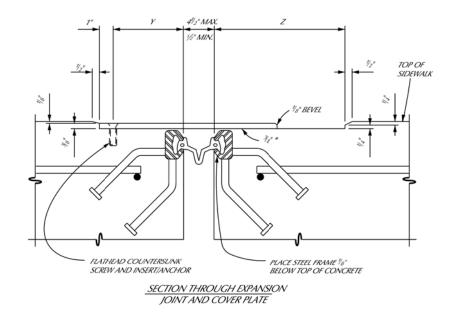
IN THE EVENT THAT SPLICING IS REQUIRED OF THE SEALING GLAND, IT SHALL BE SPLICED BY AN APPROVED METHOD (SUCH AS COLD VULCANIZATION) BY A TRAINED REPRESENTATIVE OF THE MANUFACTURER.

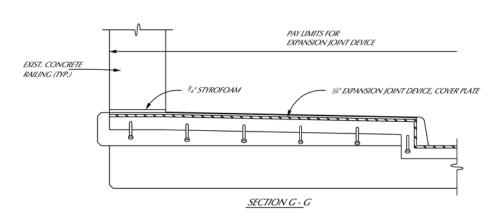
DETAILS AT CURBS OR BARRIERS

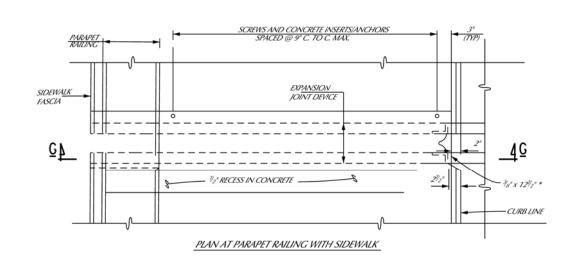
THE DETAILS ON THIS SHEET SHOW AN APPROVED MEANS OF TERMINATING THE EXPANSION JOINT DEVICE AT CURBS OR BARRIERS. VARIATIONS OR ALTERNATIVE SCHEMES WILL BE CONSIDERED AND MAY BE USED IF APPROVED BY THE ENGINEER.

MATERIALS

THE COST OF ALL MATERIALS AND LABOR REQUIRED FOR PROPER INSTALLATION OF THE EXPANSION JOINT AND THE TERMINAL ASSEMBLIES AT THE CURBS, SIDEWALKS, OR BARRIERS IS INCLUDED IN THE PAYMENT FOR THE EXPANSION JOINT DEVICE.







WABO STRIP SEAL TYPE M								
TOTAL TRAVEL *	PLATE WIDTH	Y	Z					
1"	10°	3¾"	53/4"					

ALL OTHER L	DEVICES		
TOTAL TRAVEL *	PLATE WIDTH	γ	Z
1"	8"	21/2"	5"

* SEE TABLE FOR MINIMUM TOTAL TRAVEL ALONG CENTERLINE OF BRIDGE

STRUCTURE NUMBER	ANGLE OF CROSSING TO NEAREST 10°	LOCATION OF JOINT	MIN. TOT. TRAVEL ALONG CENTERLINE OF BRIDGE	REQUIRED LENGTH OF EXPANSION JOINT DEVICE
B01	90°	PIER 1		112'
B01	90°	PIER 2		112'
BO1	0.0°	cl deck		120'
7	TOTAL		34	14'

UNIT	AMOUNT
	AMOON
FT	224'
FT	40'

	FINAL ROW PLAIN REVISIONS (SUBMITTAL DATE:)						
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

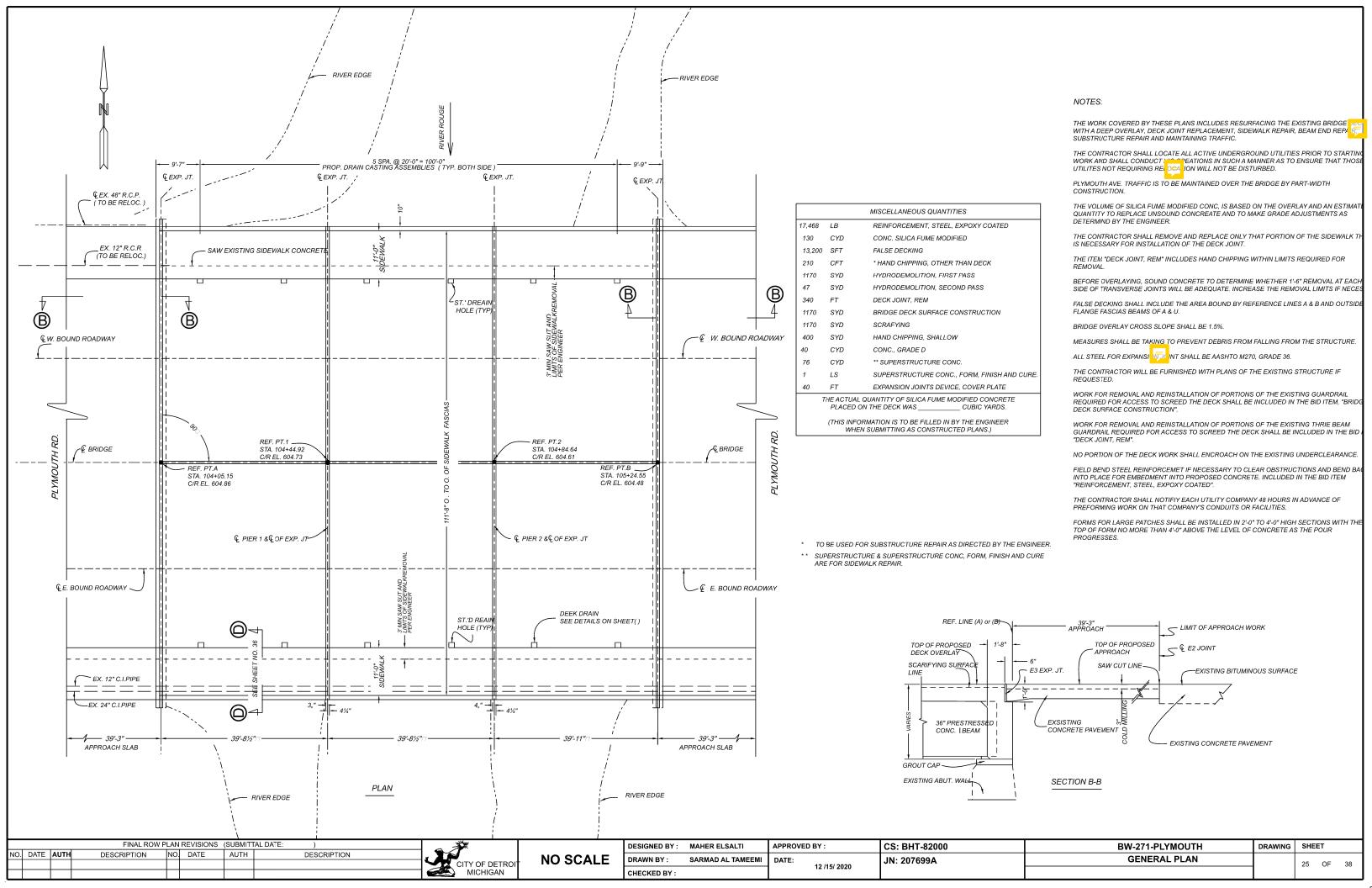


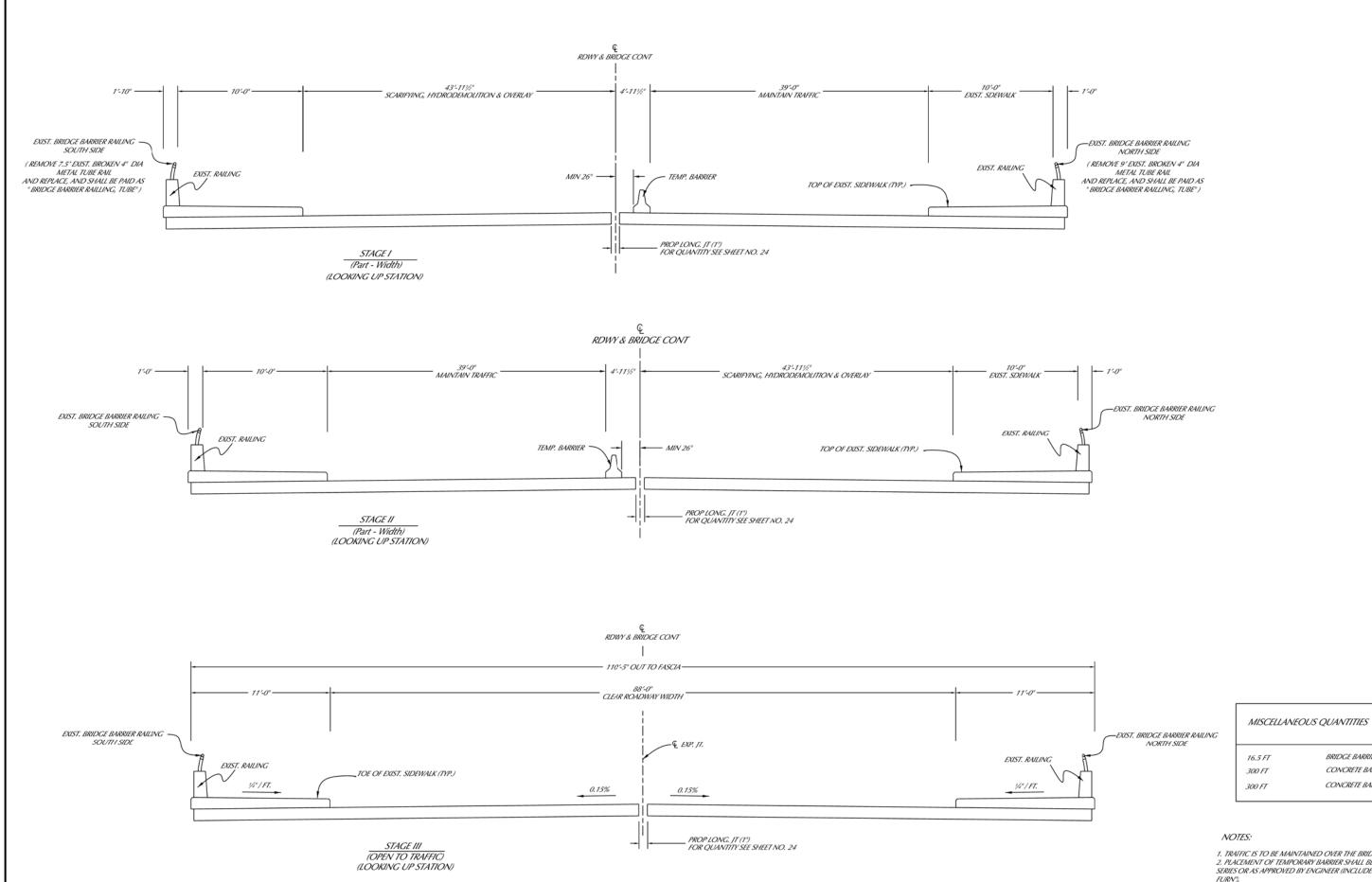
NO	SCAL
	00, 12.

CHECKED BY

DESIGNED BY :	MAHER ELSALTI	APPROVED BY
DRAWN BY :	SARMAD AL TAMEEMI	DATE:

CS: BHT-82000	BW-271-PLYMOUTH
	EXPANSION JOINT DETAILS
JN: 207699A	





NO SCALE

CHECKED BY :

CITY OF DETROIT
MICHIGAN

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:

AUTH

DESCRIPTION

NO. DATE

DESCRIPTION

NO. DATE AUTH

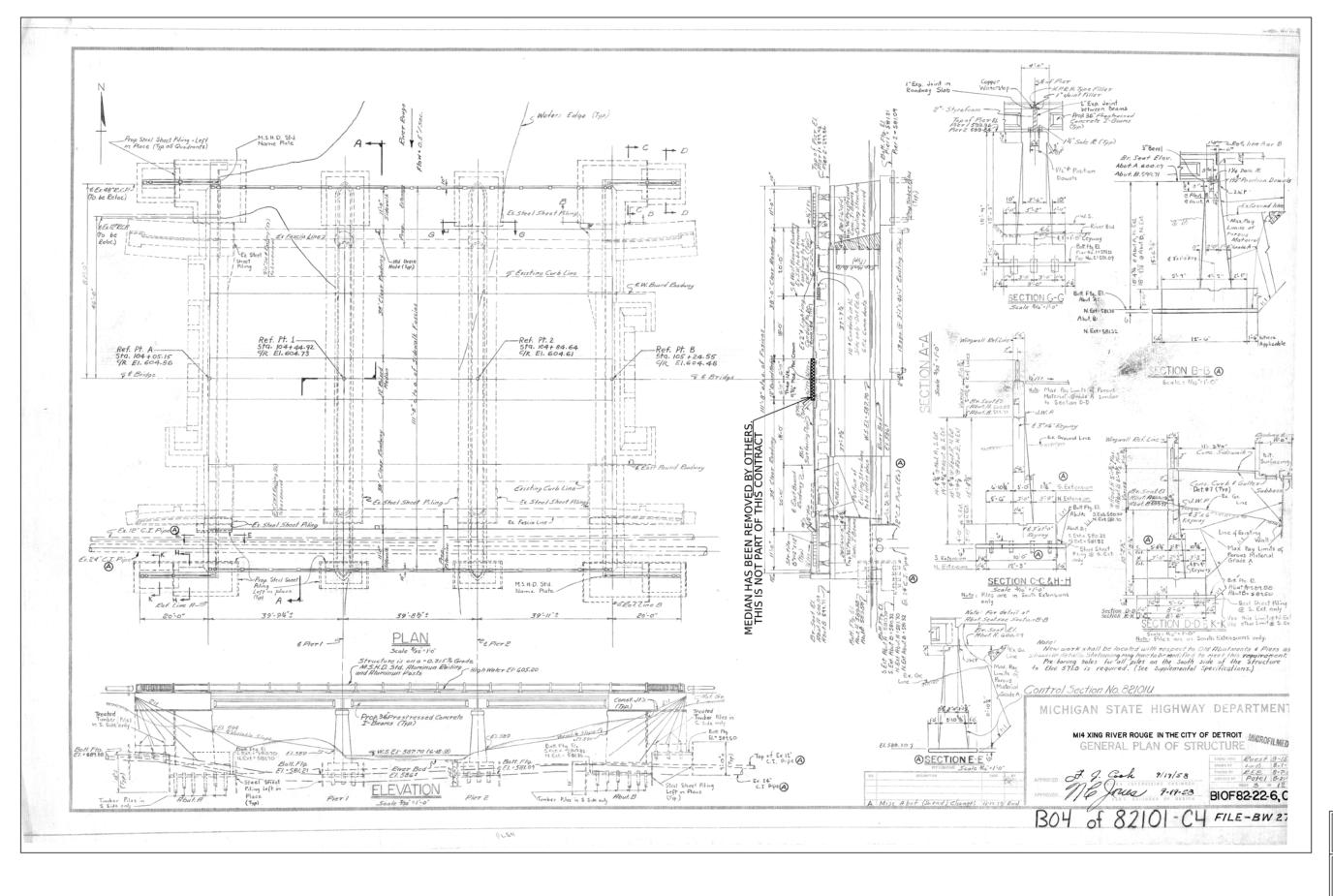
1. TRAFFIC IS TO BE MAINTAINED OVER THE BRIDGE BY PART-WIDTH CONSTRUCTION. 2. PLACEMENT OF TEMPORARY BARRIER SHALL BE ACCORDING TO STANDARD PLAN R-126-SERIES OR AS APPROVED BY ENGINEER (INCLUDED IN PAY ITEM "CONC BARRIER, TEMP,

BRIDGE BARRIER RAILLING, TUBE

CONCRETE BARRIER TEMP, FURN

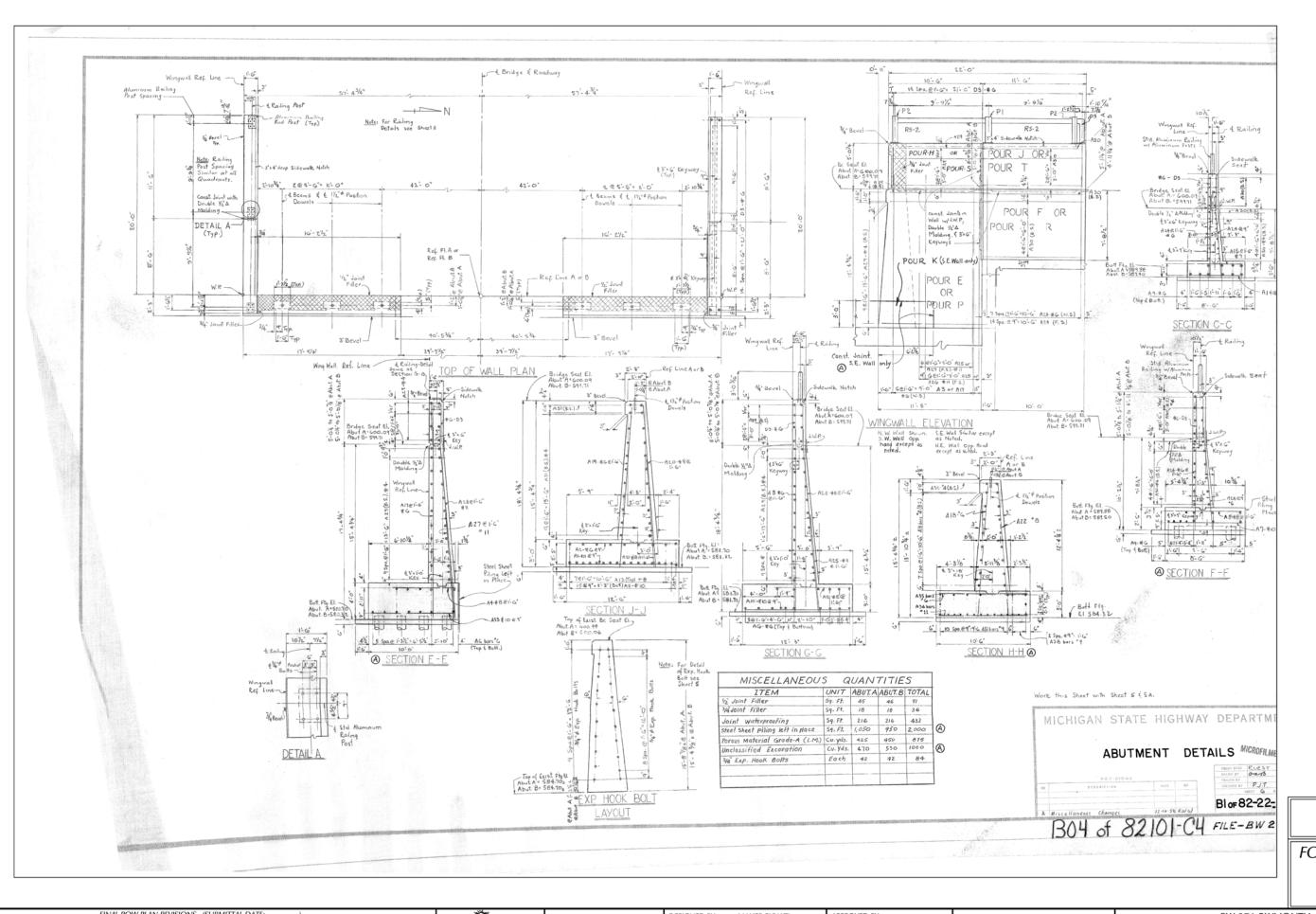
CONCRETE BARRIER TEMP, OPER

DESIGNED BY: BW-271-PLYMOUTH MAHER ELSALTI APPROVED BY : DRAWING SHEET CS: BHT-82000 STAGING PLAN DRAWN BY: SARMAD AL TAMEEMI DATE: 26 OF 38 12 / 15 / 2020 JN: 207699A



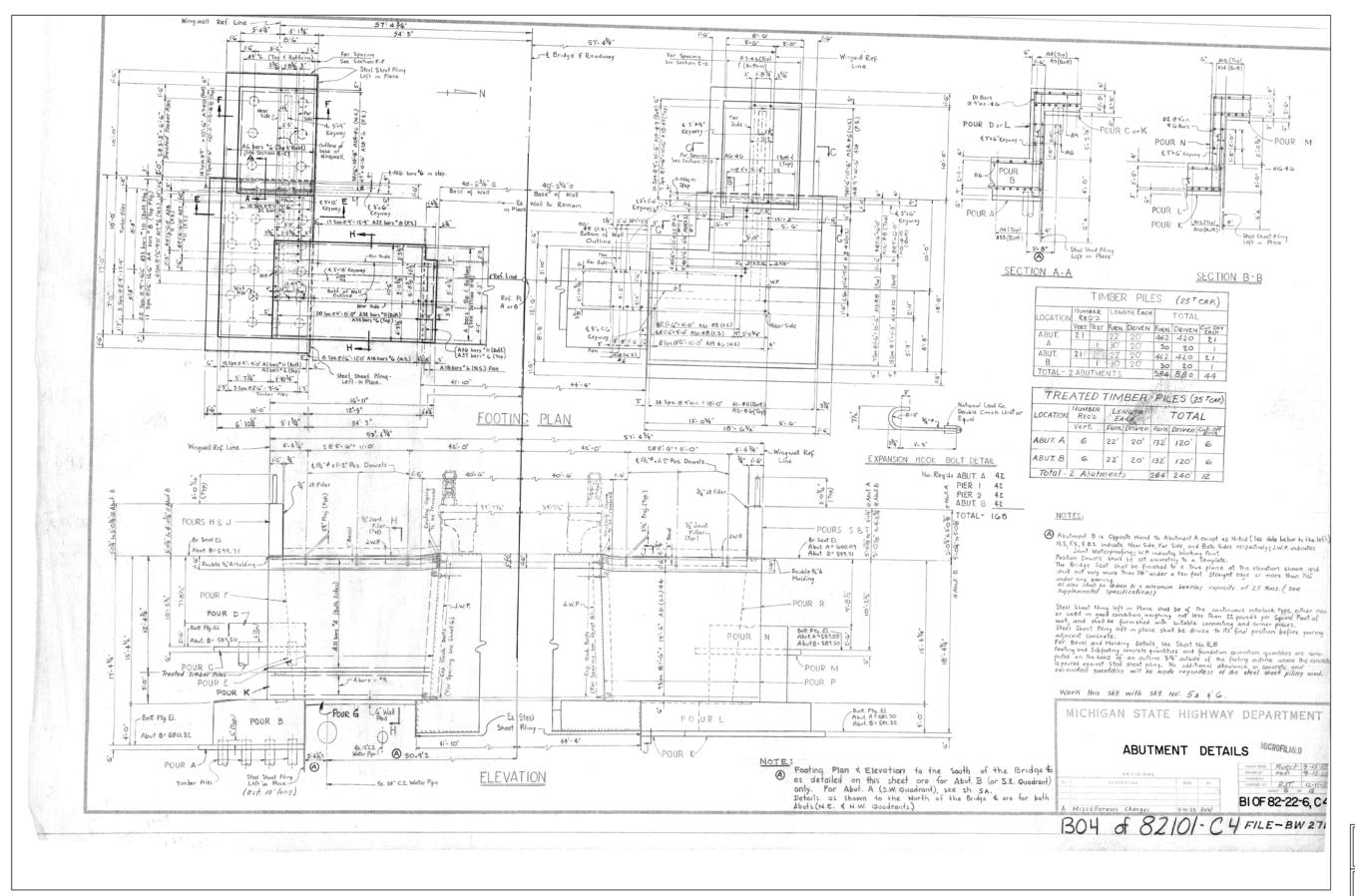
FOR INFORMATION ONLY

		FINAL ROW PLA	N REVISIONS (S	JBMITTAL D	DATE:)			DESIGNED BY :	MAHER ELSALTI	APPROVED BY :	CS: BHT-82000	BW-271-PLYMOL	JTH DRAWII	IG SHEE	ET
NO.	DATE AUT	DESCRIPTION	NO. DATE	AUTH	DESCRIPTION], 💥 📈	NO SCALE	DRAWAL BY .	SARMAD AL TAMEEMI	DATE	CS: DITT-02000	EVICTING CLIEF	7		
						CITY OF DETROIT	I NO SCALE	DRAWN BY :	SARMAD AL TAMEEMI	DATE: 11 / 12 / 2020	11. 2076064	EXISTING SHEE	:1	27	OF 38
						MICHIGAN		CHECKED BY:		17/12/2020	JN: 207699A				,



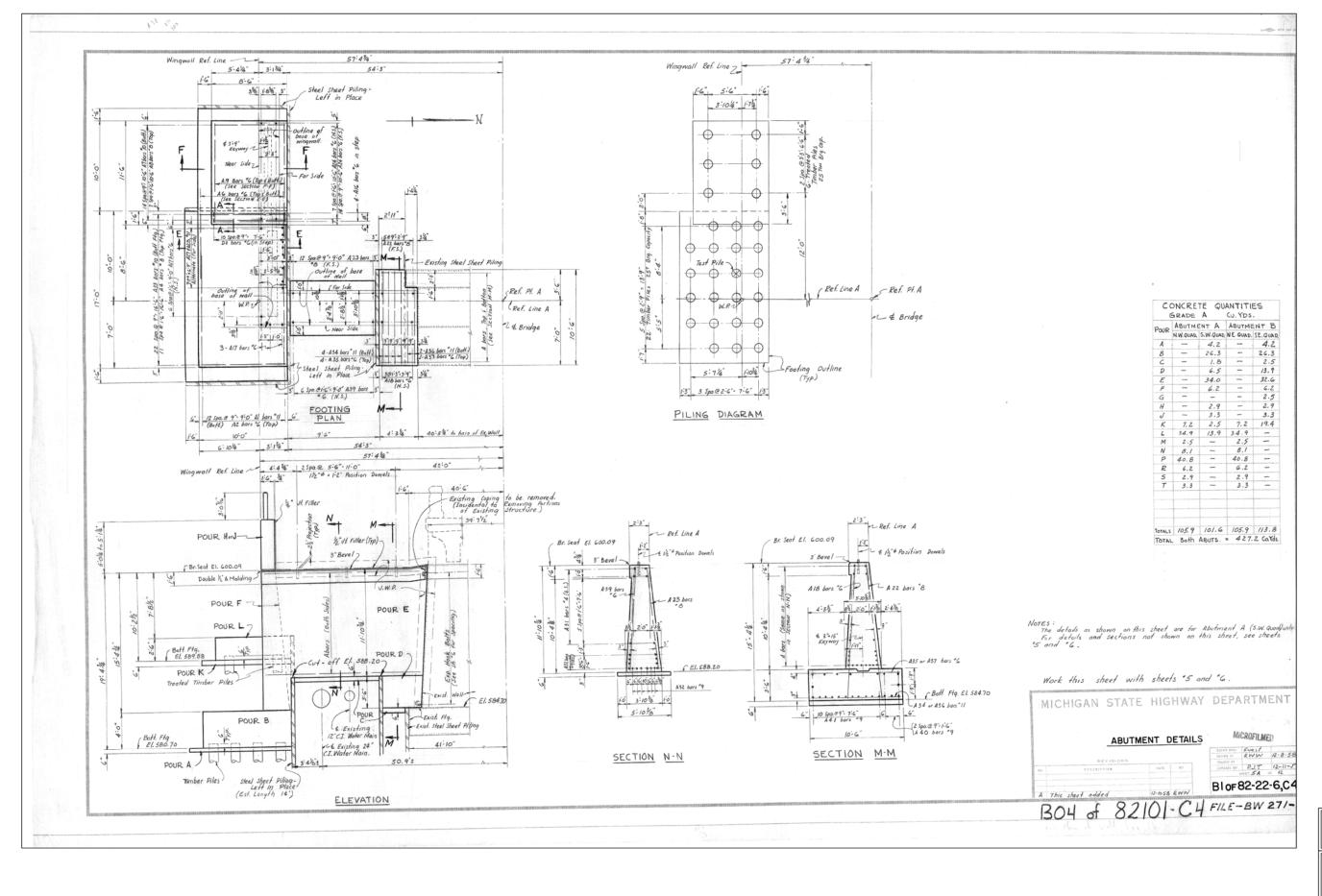
FOR INFORMATION ONLY

Н		FINAL ROV	V PLAN REVISIONS (S)			DESIGNED BY :	MAHER ELSALTI	APPROVED BY:	CS: BHT-82000	BW-271-PLYMOUTH	DRAWING	SHEET
	NO. DATE AUTH	DESCRIPTION	NO. DATE	AUTH	DESCRIPTION		NO SCALE	DD4W/M DV	CARLAID AL TALIFFIA	DATE		EVICTING CLIEFT		
						CITY OF DETROIT	NO SCALE	DRAWN BY :	SARMAD AL TAMEEMI	DATE: 11 / 12 / 2020		EXISTING SHEET		28 OF 38
Н						MICHIGAN	1	CHECKED BY:		11/12/2020	JN: 207699A			



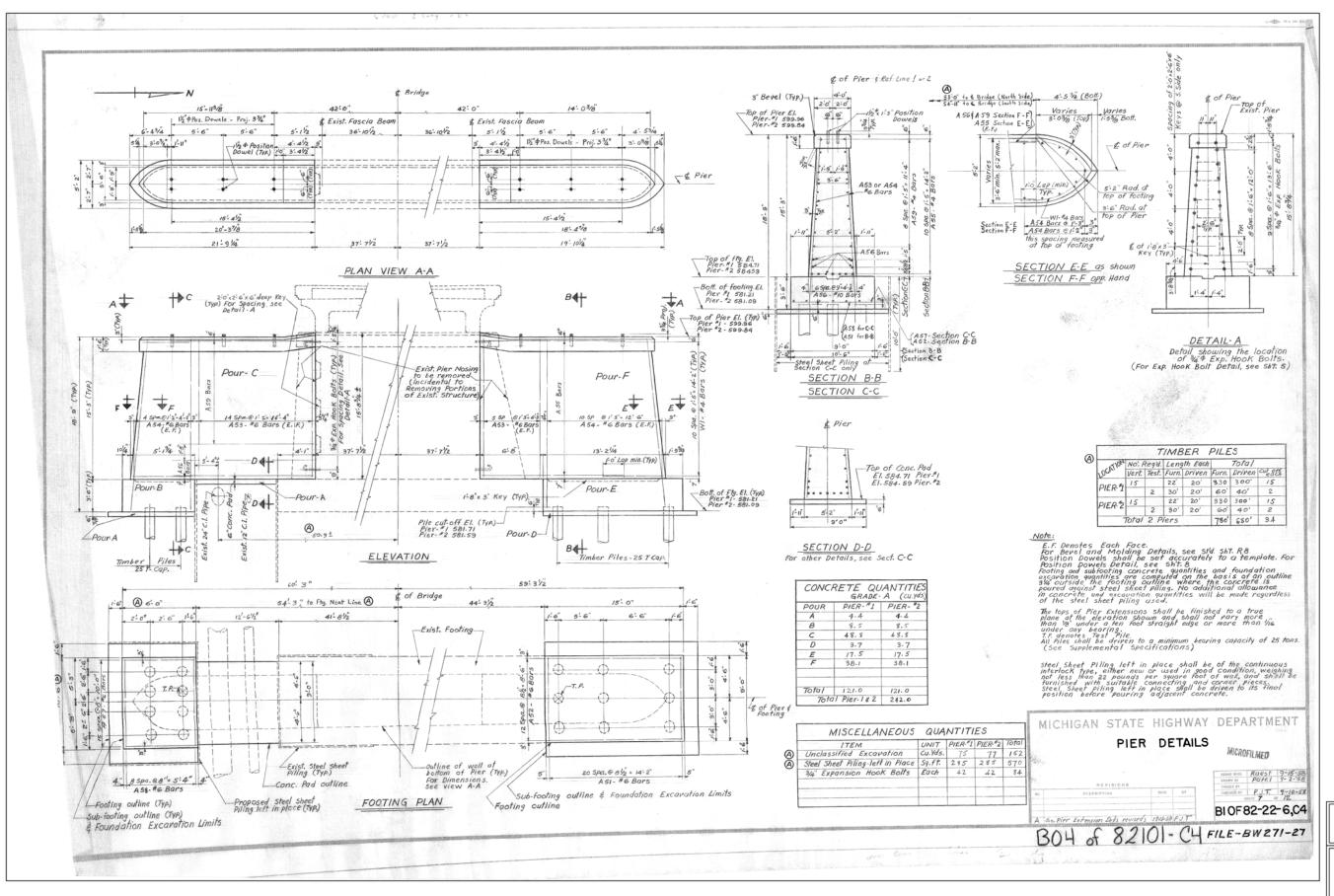
FOR INFORMATION ONLY

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)			DESIGNED BY :	MAHER ELSALTI	APPROVED BY:	CS: BHT-82000	BW-271-PLYMOUTH	DRAWING	SHEET
NO. DATE AUTH DESCRIPTION NO DATE AUTH DESCRIPTION		NO SCALE	DRAWN BY :	SARMAD AL TAMEEMI	DATE:		EXISTING SHEET		
	CITY OF DETROIT	NO SCALE	DIOWIN BI :	SARWAD AL TAWEEWII	11 / 12 / 2020	INI. 207600A	EXISTING SHEET	-	29 OF 38
	MICHIGAN MICHIGAN		CHECKED BY:		11/12/2020	JN: 207699A			



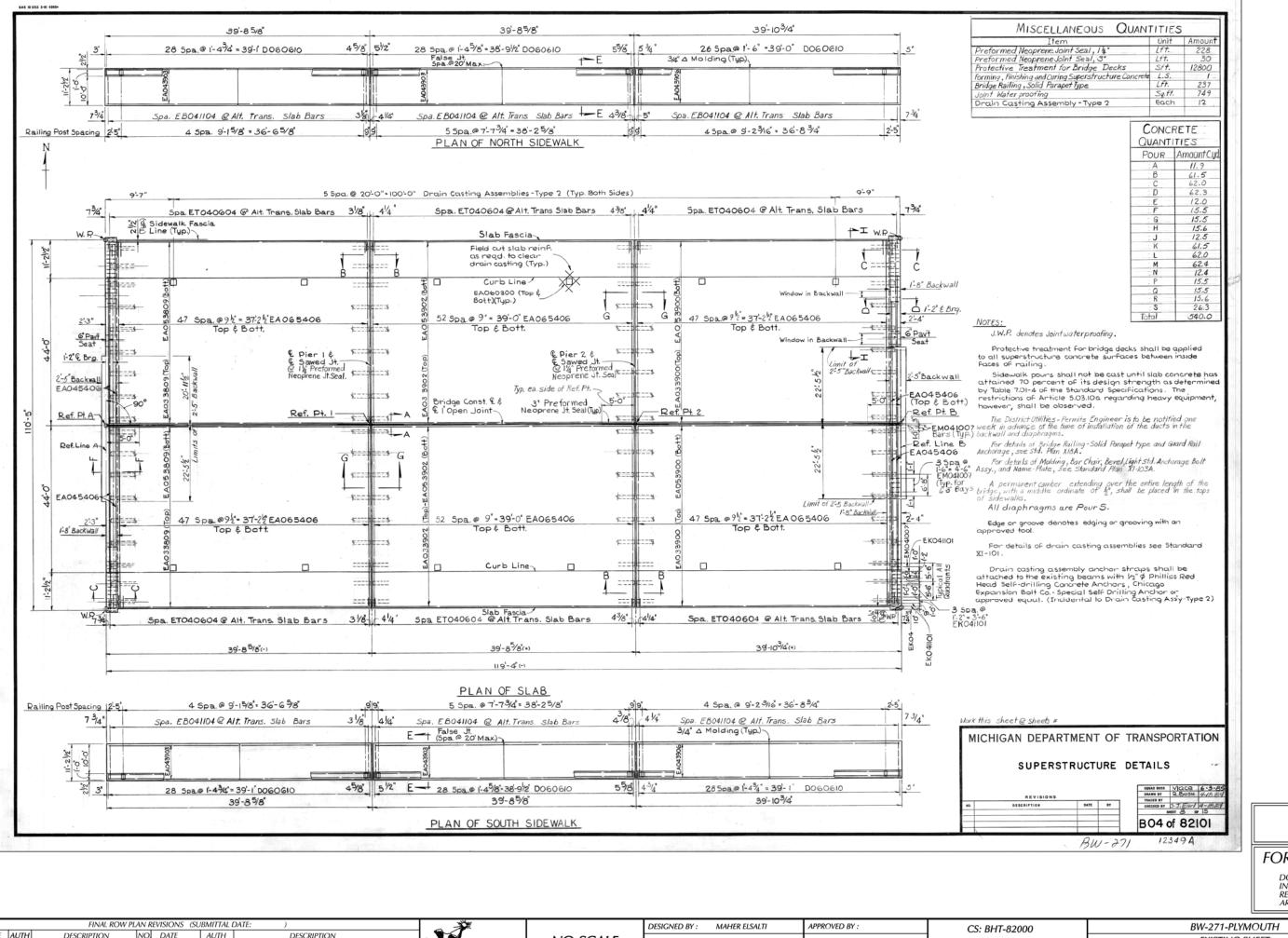
FOR INFORMATION ONLY

	FINAL ROW PL	AN REVISIONS (SU					DESIGNED BY :	MAHER ELSALTI	APPROVED BY:	CS: BHT-82000	BW-271-PLYMOUTH	DRAWING	SHEET
NO. DATE AUTH	DESCRIPTION	NO. DATE	AUTH	DESCRIPTION	CITY OF DETPOIT	NO SCALE	DRAWN BY :	SARMAD AL TAMEEMI	DATE:		EXISTING SHEET		
					CITTOT DEIROIT	TVO SCALL			11 / 12 / 2020	JN: 207699A			30 OF 38
					MICHIGAN		CHECKED BY :			j. 1. 207 333/1			



FOR INFORMATION ONLY

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)			DESIGNED BY: MA	AHER ELSALTI	APPROVED BY :	CS: BHT-82000	BW-271-PLYMOUTH	DRAWING SHEET
NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION	. 🖫 🐷	NO SCALE	DDAWAY BY . CAR	RMAD AL TAMEEMI	DATE		EXISTING SHEET	
	CITY OF DETROIT	NO SCALE	DRAWN BY: SAR	RMAD AL TAMEEMI	DATE: 11 / 12 / 2020		EXISTING SPICET	31 OF 38
	MICHIGAN		CHECKED BY:		11/12/2020	JN: 207699A		



00

82101-12349

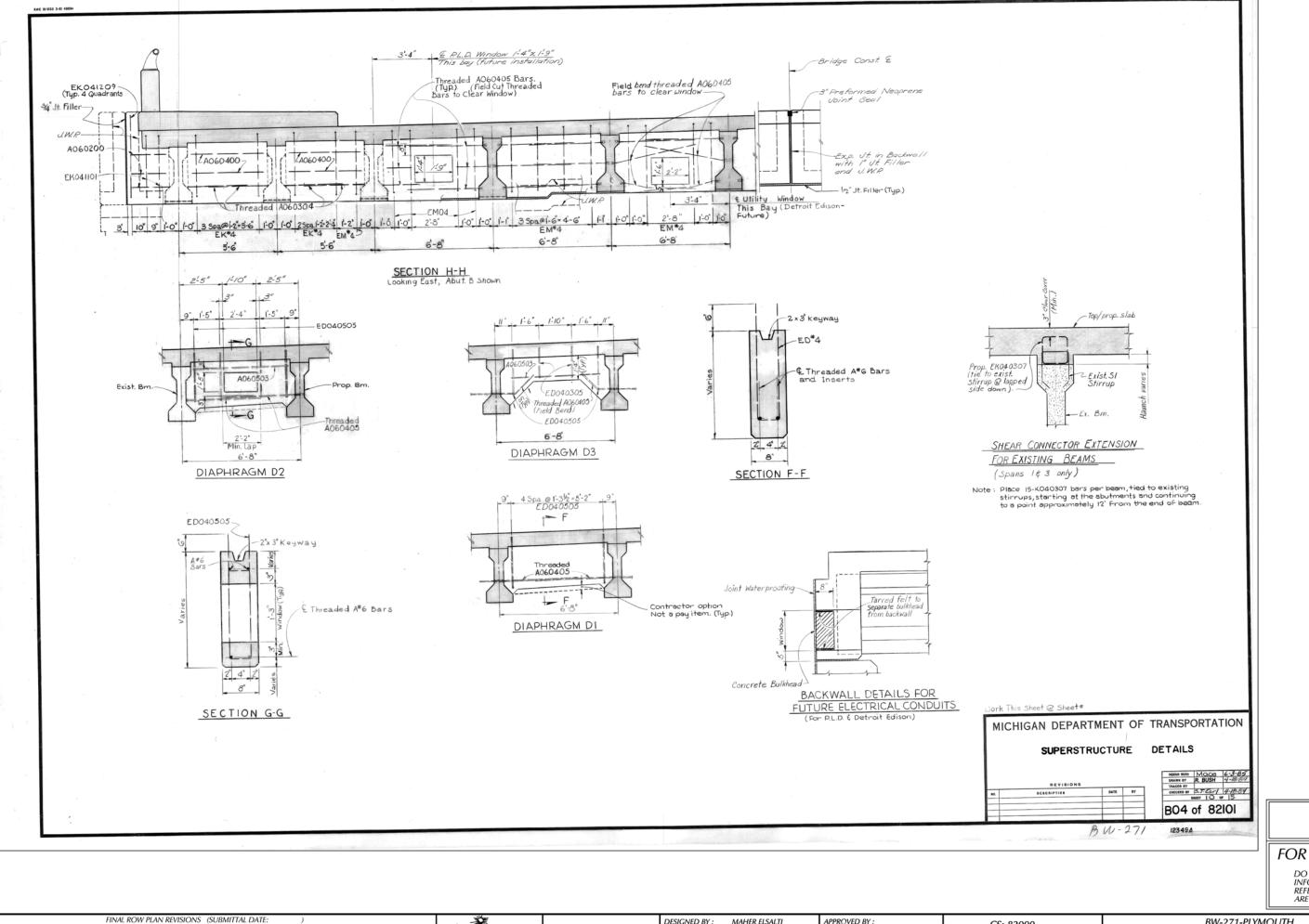
4ºF

80

EXISTING

FOR INFORMATION ONLY

_												
		FINAL ROW PLAN REVISIONS (SUBMITTAL	DATE:)			DESIGNED BY :	MAHER ELSALTI	APPROVED BY :	CS: BHT-82000	BW-271-PLYMOUTH	DRAWING	SHEET
NO	O. DATE AUTH	DESCRIPTION NO DATE AUTH	DESCRIPTION	. 1	NO SCALE	DRAWN RY ·	SARMAD AL TAMEEMI	DATE	1	EXISTING SHEET		
Г				CITY OF DETROIT	NO SCALE	DRAWN BY :	SARMAD AL TAMEEMI	DATE: 11 / 12 / 2020		EXISTING SHEET		32 OF 38
\vdash	 			MICHIGAN		CHECKED BY .		11 / 12 / 2020	JN: 207699A		1	,

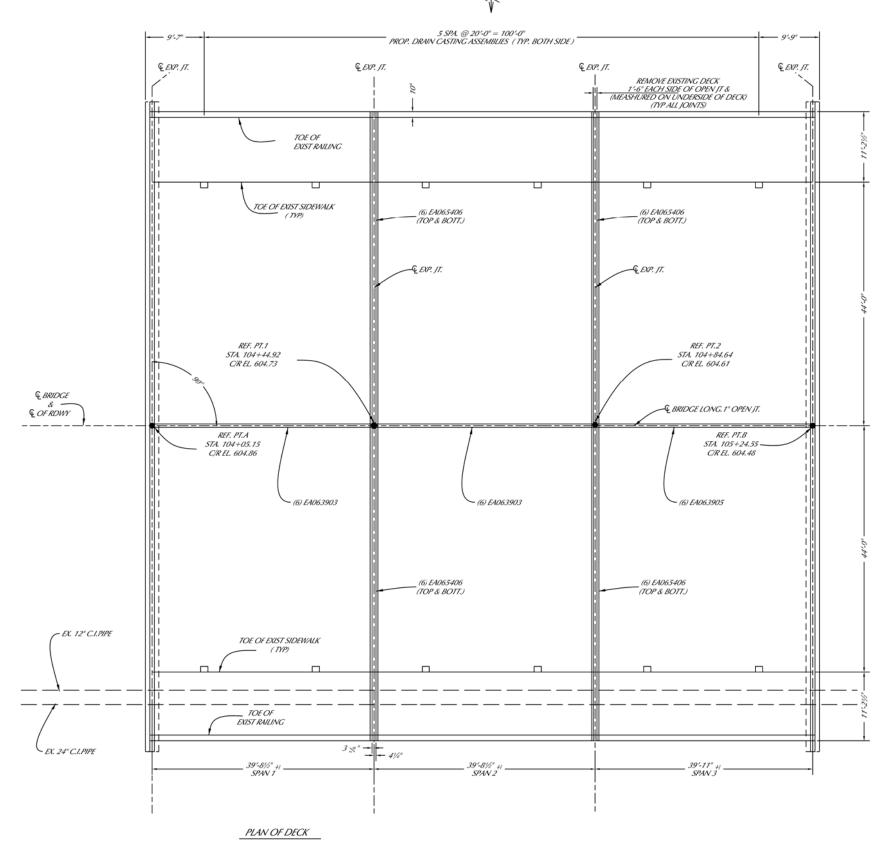


BO4 of 82101-12349

EXISTING

FOR INFORMATION ONLY

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)			DESIGNED BY:	MAHER ELSALTI	APPROVED BY:	CS: 82000	BW-271-PLYMOUTH	DRAWING	SHEET
NO. DATE AUTH DESCRIPTION NO DATE AUTH DESCRIPTION	CITY OF DETROIT	NO SCALE	DRAWN BY:	SARMAD AL TAMEEMI	DATE:	cs. 62666	EXISTING SHEET		
	CITY OF DETROIT	NO SCALE	DKAVVIN BY :	SARMAD AL TAMEEMI	DATE: 11 / 12 / 2020	INI. 207600A	EXISTING SPICET		33 OF 38
	MICHIGAN MICHIGAN		CHECKED BY:		11/12/2020	JN: 207699A			

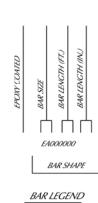


	EPOXY COATED STEEL PEINFORCEMENT	
BAR	NO. REQ'D	TOTAL WT
EA065406	48	3929
EA063903	24	1415
EA063905	12	711
EA063601	96	5203
* OVERRUN		2605
TOTAL		17468

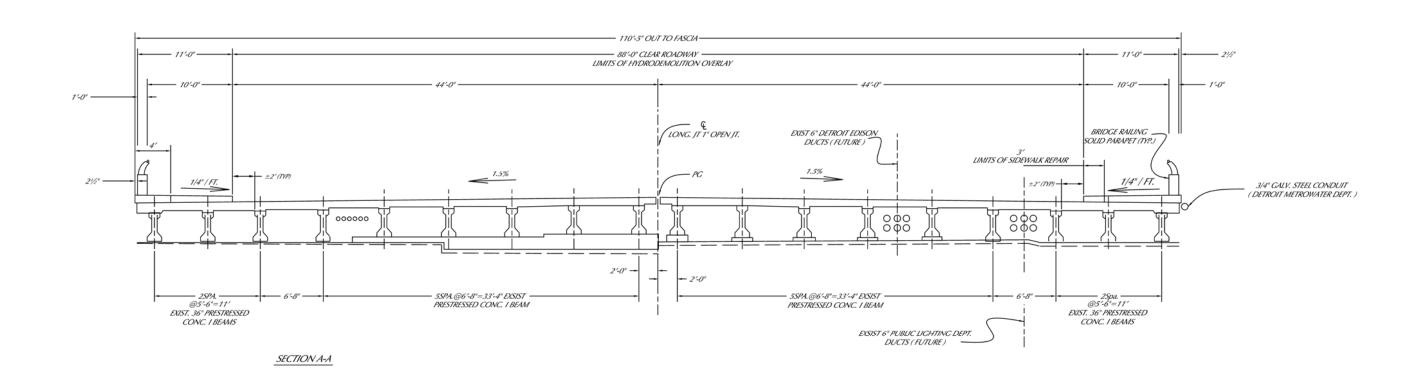
* OVER RUN INCLUDED REINFORCEMENT FOR REPLACEMENT OF EXISTING RUSTED OR DAMAGED RE-BARS IN SIDEWALK

LEGEND —

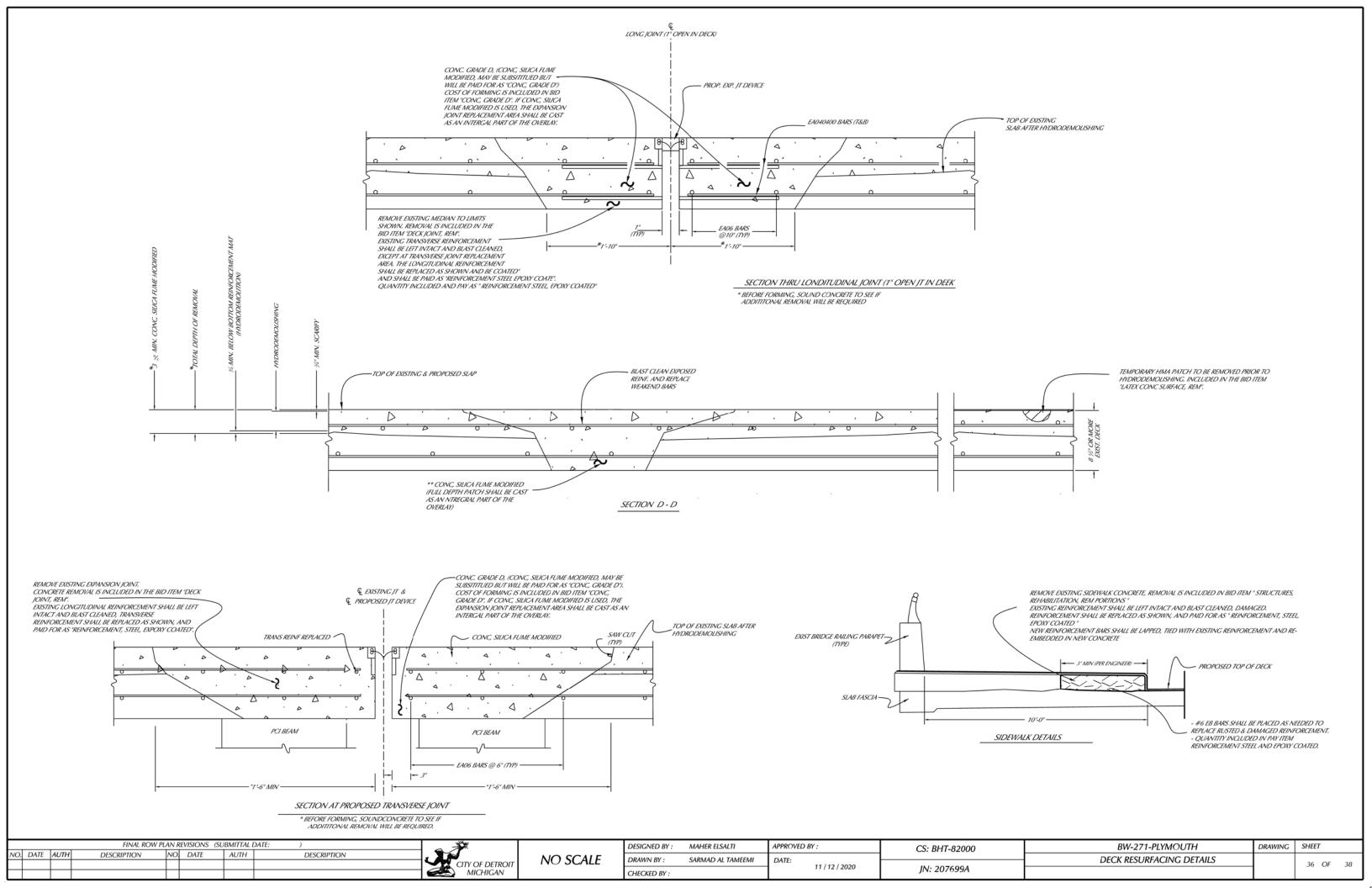
EA BAR

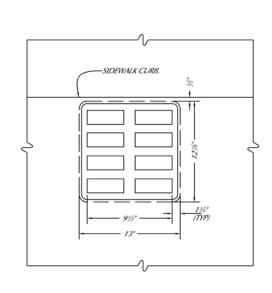


	FINAL ROW PLA	AN REVISIONS (S	UBMITTAL I	DATE:)			DESIGNED BY :	MAHER ELSALTI	APPROVED BY:	CS: BHT-82000	BW-271-PLYMOUTH	DRAWING	SHEET
NO. DATE AUT	H DESCRIPTION	NO. DATE	AUTH	DESCRIPTION	. 1	NO SCALE	DRAWN RV ·	SARMAD AL TAMEEMI	DATE	GS. DITT-02000	DECK BEST BEACING DETAILS		
					CITY OF DETROIT	NO SCALE	DKAWN BY :	SARMAD AL TAMEEMI	DATE: 11 / 12 / 2020	W. 0075004	DECK RESURFACING DETAILS]	34 OF 38
					MICHIGAN		CHECKED BY:		11/12/2020	JN: 207699A			

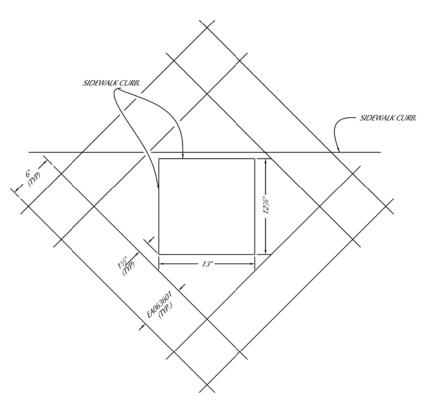


FINAL ROW PLAN REVISIONS (SUBMITTAL DATE: CITY OF DETROIT MICHIGAN DESIGNED BY: MAHER ELSALTI APPROVED BY : BW-271-PLYMOUTH DRAWING SHEET CS: BHT-82000 NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION NO SCALE DECK RESURFACING DETAILS DRAWN BY : SARMAD AL TAMEEMI DATE: 35 OF 38 11 / 12 / 2020 JN: 207699A CHECKED BY:

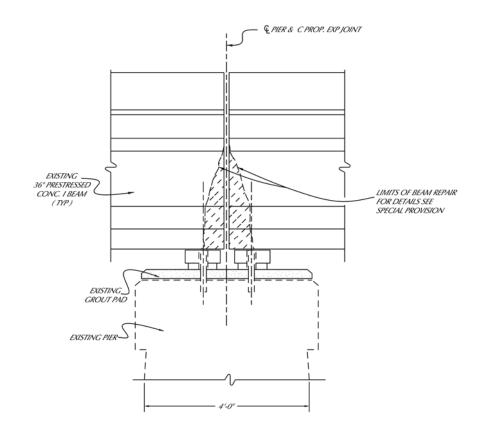








DRAIN CASTING
REINFORCEMENT DETAILS.



BEAM END REPAIR DETAIL

	MISCELLANEOUS QUANTITIES
120 FT ³	BEAM END REPAIR LATEX MODIFIED, CONC
12 Ea	DRAIN CASTING, TYPE 1

FINAL ROW PLAN REVISIO	,	_ >		DESIGNED BY :	MAHER ELSALTI	APPROVED BY:		BW-271-PLYMOUTH	DRAWING	SHEET
NO. DATE AUTH DESCRIPTION NO DATE	AUTH DESCRIPTION	- CITY OF DETROIT	NO SCALE	DRAWN BY :	SARMAD AL TAMEEMI	DATE:	JN 207699	BEAM REPAIR DETAILS		27 OF 20
		MICHIGAN	710 00 122	CHECKED BY :		11 / 12 / 2020	,=		1	37 OF 38

