06-15-2018 LETTING ITEM 002

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

INCHES CONTRACT NO. 60M88

27+4-1 = 30 TOTAL SHEETS

D-91-194-11

PROPOSED HIGHWAY PLANS

F.A.I. ROUTE 55 / I-55 E. FRONTAGE ROAD AT I & M CANAL (THOMAS SECTION 86B-3-I DILLON DR)

PROJECT STP-IPRP(270) **BRIDGE DECK OVERLAY WILL COUNTY**

C-91-194-11

PROJECT LOCATION I-55 E. FRONTAGE ROAD AT I & M CANAL STRUCTURE NO. 099-0035

TRAFFIC DATA: EXISTING ADT = 1650 (2016) POSTED SPEED = 35 MPH

PROJECT IS LOCATED IN THE VILLAGE OF CHANNAHON

IMPROVEMENT ENDS STA. 1099 + 84

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

PROJECT ENGINEER: RAGHAD ADEIS DAHHAN, SE PE (847) 705-4237 PROJECT MANAGER: FAWAD AQUEEL, PE, PTOE (847) 705-4247

NET LENGTH OF PROJECT = 88/FEET = 6.77 MILES

SECTION 34

TROY TOWNSHIP

GROSS LENGTH OF PROJECT = 881 FEET = 0.17 MILES



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

DATE: 3/20/2018
IL. LICENSED PROFESSIONAL LICENSE EXPIRES ON 11/30/2019 DATE: 3/20/2018 IL, LICENSED PROFESSIONAL LICENSE EXPIRES ON IL/30/2018 IMPROVEMENT BEGINS STA. 1095 + 64

LOCATION OF SECTION INDICATED THUS: – \dashv

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CONTRACT NO. 60M88

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INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, STATE STANDARDS, GENERAL NOTES AND COMMITMENTS
- 3 SUMMARY OF QUANTITIES SHEET 1 OF 2
- 4 SUMMARY OF QUANTITIES SHEET 2 OF 2
- 5 EXISTING & PROPOSED TYPICAL SECTIONS
- 6 ALIGNMENT, TIES & BENCHMARK
- 7 PLAN & SCHEDULE OF QUANTITIES
- 8 TRAFFIC CONTROL GENERAL NOTES AND SUGGESTED CONSTRUCTION SEQUENCING
- 9 SUGGESTED STAGE OF CONSTRUCTION & TRAFFIC CONTROL STAGE
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- 11 EROSION CONTROL PLAN
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- 19 STEEL RAILING, TYPE 2399
- 20-21D CROSS SECTIONS
- 22 BD-32 DISTRICT ONE BUTT JOINT AND HMA TAPER DETAILS
- 23 BD-51 BENCHING DETAIL FOR EMBANKMENT WIDENING
- 24 TC-10 DISTRICT ONE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS,
 INTERSECTIONS, AND DRIVEWAYS
- 25 NOT USED
- 26 TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS
- 27 TC-22 DISTRICT ONE ARTERIAL ROAD INFORMATION SIGN

STATE STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-03	NAME PLATE FOR BRIDGES
630001-12	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-08	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701321-17	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901-07	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKING
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

COMMITMENTS

MONE

GENERAL NOTES:

- THESE PLANS HAVE BEEN PREPARED FROM INFORMATION ACQUIRED FROM EXISTING PLANS AND NOTES RECEIVED FROM IDOT FIELD MAINTENANCE ENGINEERS.
- 2. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO VARIATIONS FOUND IN THE FIELD. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. ANY ADJUSTMENTS PROPOSED BY THE CONTRACTOR MUST BE APPROVED BY THE ENGINEER. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED UPON THE UNIT PRICE.
- 3. FORTY-EIGHT HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR WILL CALL J.U.L.I.E. (1-800-892-0123) OR 811 FOR LOCATIONS OF THE EXISTING UTILITIES.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- SAW CUTTING PRIOR TO ANY REMOVAL ITEMS NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEMS BEING REMOVED.
- 6. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS
 WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE
 REPAIRED AT THE CONTRACTOR'S EXPENSE.
- WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL
 EXERCISE THE UTMOST PRECAUTION IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING
 PUBLIC AS WELL AS ADJOINING RESIDENTIAL AREAS.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, AS REQUIRED, PRIOR TO COMMENCING WITH CONSTRUCTION.
- 10. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ASSURE THAT NO DEBRIS FALLS INTO THE I&M CANAL OR THE I&M CANAL TRAIL. THE COST OF THIS WORK SHALL BE INCLUDED IN THE VARIOUS PAY ITEMS.
- THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A
 MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL
 DEVICES.
- 12. THE RESIDENT ENGINEER SHALL CONTACT ERIC CAMPOS, IDOT'S AREA TRAFFIC FIELD ENGINEER FOR THE WILL COUNTY, VIA E-MAIL AT ERIC.CAMPOS@ILLINOIS.GOV AND, OR AT (815) 485-6475 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 13. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OUTSIDE THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 14. ACCESS SHALL BE PROVIDED AT ALL TIMES TO PROPERTIES ABUTTING THE PROPOSED

SCALE: N/A

15. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

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PLOT DATE = 5/8/2018	DATE	_	04/30/2018	REVISED	

I-55 E. FRONTAGE ROAD AT I&M CANAL	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEE T S	NO.
INDEX OF SHEETS, STATE STANDARDS	55	86B-3-l	WILL	2.7	02
GENERAL NOTES AND COMMITMENTS			CONTRACT		88M0
CHEET 1 OF 1 CHEETC CTA TO CTA		713 71436 655	ALD DO DEFENT		

SUMMARY OF QUANTITIES

				CONSTRUCTION	ON CODE
			URBAN		ł
CODE NO.	ITEM	UNIT	TOTAL	ROADWAY 0013 URBAN	BRIDGE 0013 86B-3-I
20100110	TREE REMOVAL (6 TO IS UNITS DIAMETER)	UNIT	165	165	
20101400	NITROGEN FERTILIZER NUTRIENT	POUND	17	17	
20100210	TREE REMOVAL COVER IS UNITS PIAMMETER)	UNIT	132	132	
20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	17	17	
20101700	SUPPLEMENTAL WATERING	UNIT	7	7	
20200100	EARTH EXCAVATION	CU YD	790	790	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	899	899	
25000300	SEEDING, CLASS 3	ACRE	0.25	0.25	
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQYD	899	899	
28000400	PERIMETER EROSION BARRIER	FOOT	1285	1285	
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YP	585	585	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	13	13	
31101900	SUBBASE GRANULAR MATERIAL, TYPE C	TON	30	30	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	347	347	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	34	34	
48101200	AGGREGATE SHOOLDERS, TYPE B 6"	SO YP	481	481	
48203037	WOT MIV ACCUAL T CHOLE DESC. 40°	SQYD	583	583	
10203037	HOT-MIXASPHALT SHOULDERS, 10"	ou fu	767	207	

			CONSTRUCT 80% FED	-,
	<u> </u>	"	20% ST ROADWAY	ATE BRIDGE
ITEM	UNIT	TOTAL QUANTITY	00/13_ URBAN	0013 86B-3-I
CONCRETE REMOVAL	CU YĐ	3		3
PROTECTIVE SHIELD	SQ YD	184		184
FLOOR DRAINS	EACH	4		4
BRIDGE DECK GROOVING	SQ YD	173		173
STEEL RAILING, TYPE 2399	FOOT	87		87
	FOOT	588	588	
TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1	
TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	3	3	
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3	5	
GUARDRAIL REMOVAL	FOOT	235	235	
CABLE ROAD GUARD REMOVAL	FOOT	84	84	
ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4	
MOBILIZATION	LSUM	1	1	
	CONCRETE REMOVAL PROTECTIVE SHIELD FLOOR DRAINS BRIDGE DECK GROOVING STEEL RAILING, TYPE 2399 STEEL PLATE BEAM GUARPRAIL, TYPE A, 9 FOOT POSTS TRAFFIC BARRIER TERMINAL, TYPE 2 TRAFFIC BARRIER TERMINAL, TYPE 6A TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT GUARDRAIL REMOVAL CABLE ROAD GUARD REMOVAL ENGINEER'S FIELD OFFICE, TYPE A	CONCRETE REMOVAL CU YD PROTECTIVE SHIELD SQ YD FLOOR DRAINS EACH BRIDGE DECK GROOVING SQ YD STEEL RAILING, TYPE 2399 STEEL PLATE DEAM GUAR PRAIL; TYPE A, 9 FOOT POSTS TRAFFIC BARRIER TERMINAL, TYPE 2 EACH TRAFFIC BARRIER TERMINAL, TYPE 6A EACH TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT EACH CUARDRAIL REMOVAL FOOT CABLE ROAD GUARD REMOVAL FOOT ENGINEER'S FIELD OFFICE, TYPE A CAL MO	CONCRETE REMOVAL CU YD 3 PROTECTIVE SHIELD SQ YD 184 FLOOR DRAINS EACH 4 BRIDGE DECK GROOVING SQ YD 173 STEEL RAILING, TYPE 2399 FOOT 87 STEEL PLATE BEAM GUAR PLAIL, TYPE A, 9 FOOT POSTS TRAFFIC BARRIER TERMINAL, TYPE 9 TRAFFIC BARRIER TERMINAL, TYPE 9 GUARDRAIL REMOVAL FOOT 235 CABLE ROAD GUARD REMOVAL ENGINEER'S FIELD OFFICE, TYPE A CAL MO 4	SOW FED 20% ST SOW

* SPECIALTY ITEMS



USER NAME = tmohammed	DESIGNED - TOM	REVISED
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PLOT DATE = 3/22/2018	DATE - 03/22/2018	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

								T CANAL T 1 OF 2
SCALE:	N/A	SHEET	1	OF	2	SHEETS	STA.	TO STA.

SUMMARY OF QUANTITIES

			urban	80% FEI 20% S	DERAL
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 00/3 URBAN	9013 86B-3-I
110.					
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	-
70300100	SHORT TERM PAVEMENT MARKING	FOOT	ui	m)	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	462	402	
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	4765	4765	
70300924	PAVEMENT MARKING TAPE, TYPE IV 24"	FOOT	66	66	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	896	896	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,011	1,011	
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	4	4	
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	6	6	
78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	4,872	4,872	
			-		
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	26	26	
89000050	TEMPORARY BRIDGE TRAFFIC SIGNAL INSTALLATION	EACH	1	1	

			45 .	CONSTRUCT 80% FEE	
			URBAN	20% S1	TATE .
				ROADWAY	BRIDGE
CODE			TOTAL	0013	0013
NO.	ITEM	UNIT	QUANTITY	URBAN	86B-3-I
D326131 c	RELOCATE EXISTING TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	2	
0327979 ×	PAVEMENT MARKING REMOVAL - GRINDING	SQFT	1,624	1,624	
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1/2011	
x6310088	TRAFFIC BARRIER TERMINAL TYPE 6A (SPECIAL)	EACH	1	1	
6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	25	25.00	
K6650206	WOVEN WIRE FENCE TO BE REMOVED AND RE-ERECTED	FOOT	289	284	
X7010218	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	1	1	
X701500\$	CHANGEABLE MESSAGE SIGN	CAL DAY	140	140	
×7030005-	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	2,138	2,138	
•					
20006014	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ YD	173		173
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	173		173
70047754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5	SQ FT	31		31
20012754 200/3798	INCHES) CONSTRUCTION LAYOUT	L SUM	1	1	1 ,
20013 79 1 20016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQYD	2	r	2
	DEGREE SELECTION OF SELECTION O				<u> </u>
Z0016002°	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	29		29
			-		
Z0030850 <	TEMPORARY INFORMATION SIGNING	SQFT	52	52	
Z0049790 °	RELOCATING NAME PLATES	EACH	1		1

* SPECIALTY ITEMS

Ì		Ų:
	111 S. Wacker Drive, Suite 3910	
	Chicago, IL 60606 ENGINEERS & SURVEYORS Ph: 312-235-6783	PI
31		

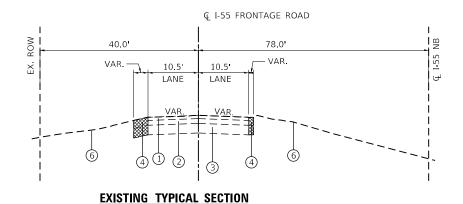
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

				ROAD /			
SHEET	- 7	ΩF	2	SHEETS	STA.		to sta.

SCALE: N/A

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F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
55	86B-3-I	WHLL	27	04	
		CONTRACT	NO. 6	88MC	
	ILLINOIS	FED. A	D PROJECT		
	ILLINOIS	reo. A	D FAOJECI		



STA. 1096+37.00 TO STA. 1097+55.00

STA. 1097+90.00 TO STA. 1099+00.00

40.0'
78.0'

3'-4'

4'-7.5'

10.50'

10.50'

4'-7.5'

HMA
SHLD

A%
VAR
VAR
VAR
BA
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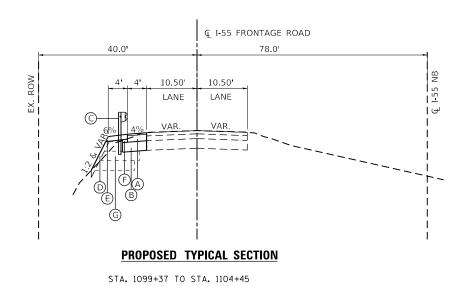
PROPOSED TYPICAL SECTION

STA. 1095+64 TO STA. 1097+54

STA. 1097+93 TO STA. 1099+37

Q 1-55 FRONTAGE ROAD 40.0' VAR. 10.5' VAR. VAR. VAR. VAR. (6) (78.0' VAR. VAR. (6) EXISTING TYPICAL SECTION

STA. 1098+92.00 TO STA. 1099+84.00



HMA MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ NDES	QUALITY MANAGEMENT PROGRAM (QMP)					
HMA SURFACE COURSE							
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 MM)	4% @ 70 GYR	QC/QA					
HOT MIX ASPHALT SHOULDERS, 10"							
2" HMA SURFACE COURSE, MIX D N70 (IL-9.5MM)	4% @ 70 GYR	QC/QA					
8" HMA BINDER IL-19 MM 4% @ 70 GYR QC/QA							
QMP DESIGNATION: QUALITY CONTROL/	QUALITY ASSURANCE (QO	C/QA)					

MIXTURE TABLE NOTES

- 1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQYD/IN.
- 2. THE "AC TYPE" 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.
- 3. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

EXISTING LEGEND

- ① EXISTING HMA SURFACE COURSE, (VAR. THICKNESS)
- ② EXISTING HMA OVERLAY (VAR. THICKNESS)
- ③ EXISTING HMA BASECOURSE (VAR. THICKNESS)
- 4 EXISTING AGGREGATE TO BE REMOVED PAID FOR AS EARTH EXCAVATION
- 5 EXISTING GUARD RAIL TO BE REMOVED
- 6 EXISTING EMBANKMENT
- 7 EXISTING CABLE ROAD GUARD TO BE REMOVED

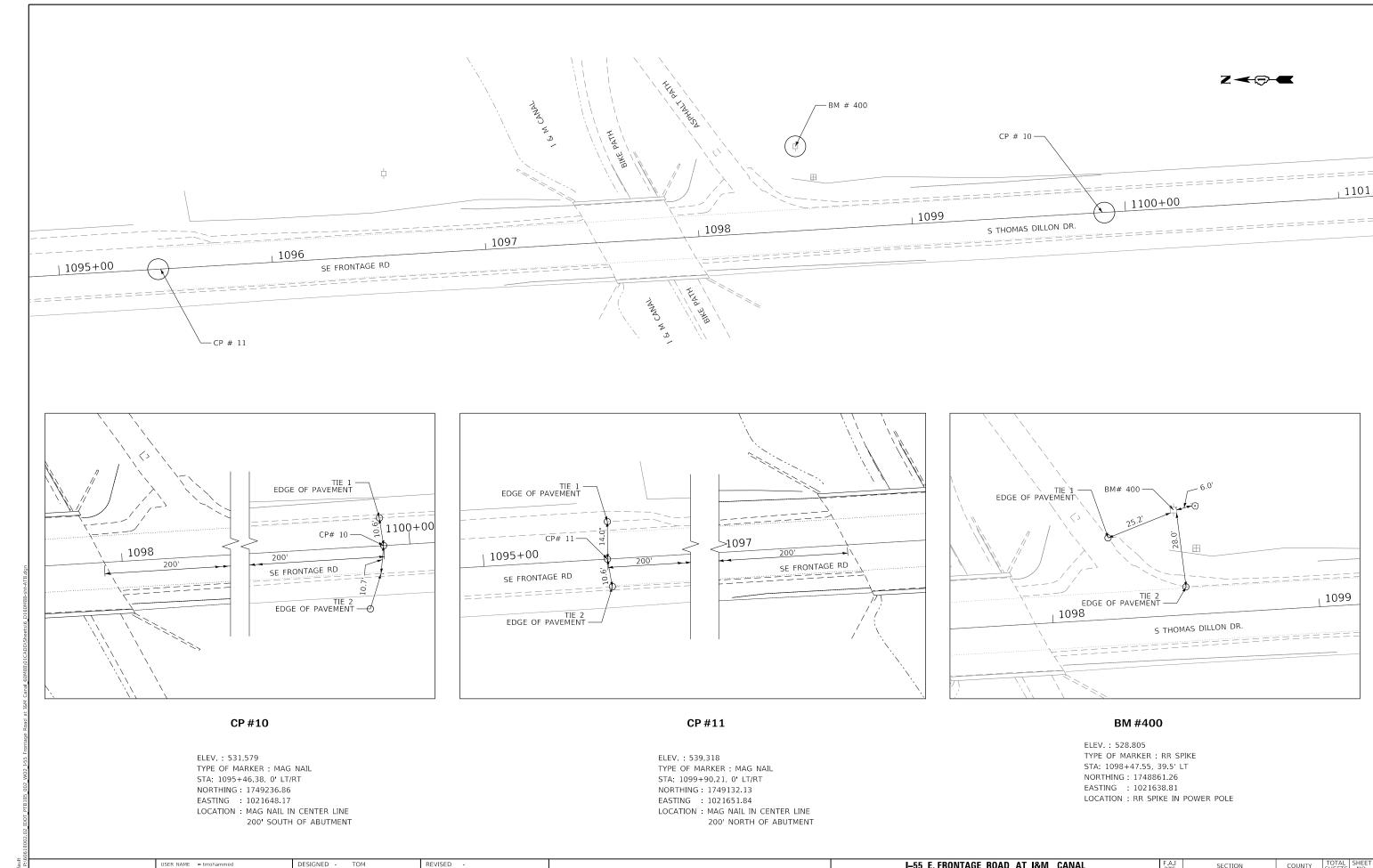
PROPOSED LEGEND

- (A) HOT MIX ASPHALT SHOULDERS, 10"
 -1 3/4" HOT-MIX ASPHALT SURFACE COURSE,
 -MIX "D", N70 (IL 9.5 MM)
 - -8" HMA BINDER IL-19 MM
- B AGGREGATE SUBGRADE IMPROVEMENT 12"
- © STEEL PLATE GUARDRAIL, TYPE A, 9 FOOT POSTS
- RESTORATION LANDSCAPING:
 HEAVY DUTY EROSION CONTROL BLANKET
 SEEDING, CLASS 3
 TOPSOIL FURNISH AND PLACE, 4"
- -
- E AGGREGATE SHOULDERS, TYPE B 6"
- F) SUBBASE GRANULAR MATERIAL, TYPE C
- G EARTH EXCAVATION

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9\:d		
NAME:	111 S. Wacker Drive, Suite 3910	
Z H	Chicago, IL 60606 ENGINEERS & SURVEYORS Ph: 312–235–6783	
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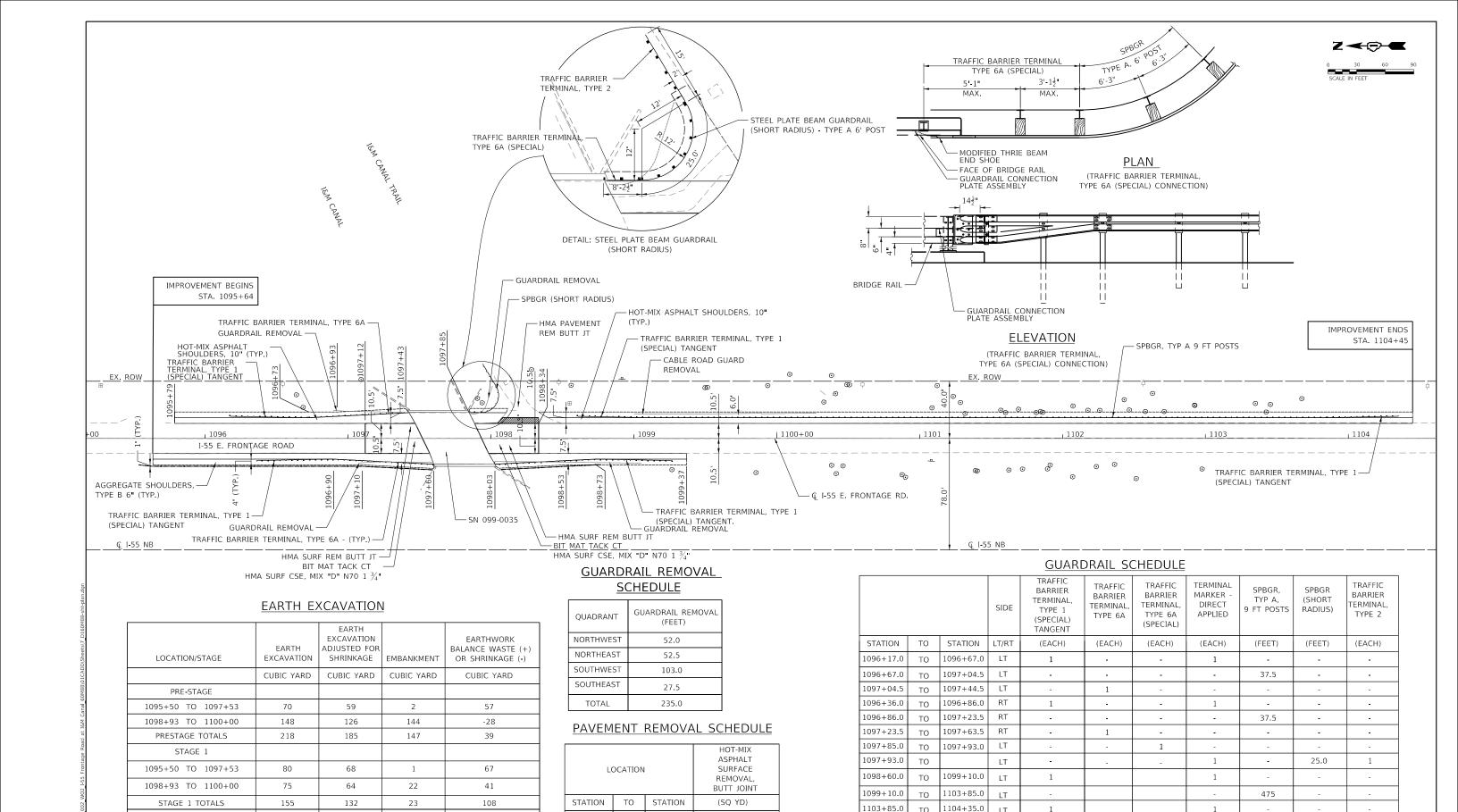
	I–55 E.	FRONTAGI	ROAD	AT I&M	CANAL	F.A.I RTE	SEC	ΠΟΝ	COUNTY	TOTAL SHEETS	SHEET NO.
FXIST	NG &	PROPO	SED TY	PICAL	SECTIONS	55	86E	i-3-I	WILL	27	05
EXISTING & FROTOGED TITIONE DESTINATE								CONTRAC	T NO. 60	38MC	
	SHEET	OF	SHEETS	STA.	TO STA.			ILLINOIS FED	AID PROJECT		



111 S. W. Suite 39 Chicago, Ph: 312-3

| DRAWN - YN REVISED - | PLOT DATE = 3/22/2018 | DATE - 03/22/2018 | REVISED - | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



111 S. Wacker Drive, Suite 3910 Chicago, IL 60606 ENGINEERS & SURVEYORS Ph: 312-235-6783

STAGE 2

1100+00 TO 1104+40

	USER NAME = tmohammed	DESIGNED -	TOM	REVISED -
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	PLOT SCALE = 60.0000 ' / in.	CHECKED -	MO	REVISED -
	PLOT DATE = 4/30/2018	DATE -	04/30/2018	REVISED -

532

138

352

670

415

788

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

168

179

347

1097+99.5

1098+39.5

1098+77.0

TO

TO

TO

SCALE: 1" = 30'

1098+39.5

1098 + 77.0

1099+27.0

RT

RT

RT

1097 + 12

1097+94

TO

TO

1097+52

1098+34

I–55 E.	FRO	NTA	GE ROAD	AT I&	M CANAI	L	F.A.I RTE	SEC ⁻	ΠΟN		COUNTY	TOTAL SHEETS	SHEET NO.
PLAN & SCHEDULE OF QUANTITIES				55	86B	-3-I		WILL	27	07			
											CONTRAC	T NO. 60	38MC
SHEET	1	OF	1 SHEE	S STA.		TO STA.			ILLINOIS	EED A	ID PROJECT		

37.5

587.5

25.0

MAINTENANCE OF TRAFFIC GENERAL NOTES

- 1. THE MAINTENANCE OF TRAFFIC CONTROL (MOT) PLANS SHALL SERVE AS A GUIDE FOR SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT. HOWEVER, THE CONTRACTOR MAY MODIFY THE MOT PLANS TO MEET CONSTRUCTION NEEDS BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE MOT PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- 2. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGE TO THE MOT PLANS.
- 3. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- 4. ALL VEHICLES, EQUIPMENT, WORKERS, AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.
- 5. ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE MAINTENANCE OF TRAFFIC STRIPING SHALL BE REMOVED. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT, "PAVEMENT MARKING REMOVAL" OF DESIGNATED METHOD.
- 6. THE CONTRACTOR SHALL REMOVE ALL PAVEMENT MARKING TAPE WHICH CONFLICTS WITH THE NEXT STAGE OR FINAL STRIPING. REMOVAL OF TEMPORARY PAVEMENT MARKING TAPE WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT, "TEMPORARY PAVEMENT MARKING REMOVAL".
- 7. ALL TRAFFIC CONTROL DEVICES USED FOR THE MAINTENANCE OF TRAFFIC, AS DETAILED ON THE PLANS, OR HIGHWAY STANDARD SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS SPECIFIED IN THE MAINTENANCE OF TRAFFIC SPECIAL PROVISION OR AS DIRECTED BY THE ENGINEER.
- 8. ALL DRUMS, VERTICAL PANELS, AND BARRICADES ADJACENT TO THE EDGE OF TRAVELED WAY SHALL BE EQUIPPED WITH STEADY-BURNING BIDIRECTIONAL LIGHTS.
- 9. TEMPORARY CONCRETE BARRIER SHALL BE USED ACROSS THE BRIDGE WHEN SPECIFIED IN THE PLANS.
- 10. ALL EXISTING SIGNS WITHIN THE LIMITS OF MAINTENANCE OF TRAFFIC WHICH ARE OBSCURED BY OR OTHERWISE INTERFERED WITH BY THE CONSTRUCTION OPERATIONS AND MAINTENANCE OF TRAFFIC, SHALL BE COVERED OR REMOVED BY THE CONTRACTOR UNLESS SPECIFIED IN THE PLANS OR WHEN DIRECTED BY THE ENGINEER. THIS WORK SHALL BE IN ACCORDANCE WITH ARTICLE 107.25 OF THE IDOT STANDARD SPECIFICATIONS.
- 11. TEMPORARY, OFF-PEAK HOUR LANE CLOSURES MUST BE REQUESTED THROUGH THE ENGINEER AND AS SPECIFIED IN THE SPECIAL PROVISIONS. WHEN OFF-PEAK HOUR OR WEEKEND LANE CLOSURES ARE REQUIRED, A PORTABLE CHANGEABLE MESSAGE SIGN SHALL BE INSTALLED ONE WEEK PRIOR TO THE CLOSURE. THE MESSAGE SIGN WORDING AND LOCATION WILL BE DETERMINED BY THE ENGINEER.
- 12. THE CONTRACTOR SHALL PLACE A CHANGEABLE MESSAGE SIGN AT EACH END OF THE PROJECT AND/OR AS DIRECTED BY THE ENGINEER TO INFORM MOTORISTS OF UPCOMING CONSTRUCTION ACTIVITIES. THE MESSAGE SIGNS WITH THE APPROPRIATE INFORMATION SHALL BE IN PLACE TWO WEEKS BEFORE START OF CONSTRUCTION ACTIVITY. THIS WORK IS TO BE PAID FOR AT THE CONTRACT UNIT PRICE PER CALENDAR DAY, "CHANGEABLE MESSAGE SIGN".
- 13. ALL TEMPORARY INFORMATION SIGNS SHALL BE PAID FOR SEPARATELY AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR "TEMPORARY INFORMATION SIGNING".
- 14. HIGH-INTENSITY FLASHING LIGHTS SHALL BE USED ON EACH APPROACH IN ADVANCE OF THE WORK ZONE DURING HOURS OF DARKNESS AND INSTALLED ABOVE THE FIRST TWO SIGNS IN EACH SERIES.
- 15. THE ENGINEER MUST BE NOTIFIED AT LEAST 72 HOURS PRIOR TO PLACING THE TEMPORARY TRAFFIC SIGNALS IN OPERATION SO THAT ARRANGEMENTS CAN BE MADE TO INSPECT THE INSTALLATION AND SET THE TIMING OF THE SIGNALS. THE CONTRACTOR SHALL FURNISH TIMING CYCLE GEARS OF 60, 65, 70, 80, 90, 100, AND 120 SECONDS FOR THE CONTROLLER.
- 16. FOR ADDITIONAL TEMPORARY TRAFFIC SIGNAL INFORMATION, SEE IDOT STANDARD 701321.
- 17. FOR ADDITIONAL BRIDGE CONSTRUCTION STAGING INFORMATION, SEE STRUCTURAL PLANS.

SUGGESTED CONSTRUCTION SEQUENCING

PRE STAGE

CONSTRUCTION:

INSTALL TEMPORARY TRAFFIC SIGNALS AND ASSOCIATED MOT ITEMS. REMOVE EXISTING EXCAVATION & EMBANKMENT ALONG NORTHBOUND LANE. REMOVE EXISTING GUARDRAIL AND TERMINAL SECTIONS ALONG NORTHBOUND LANE. PLACE HMA AND AGGREGATE SHOULDER ON NORTHBOUND SHOULDER. PLACE NEW GUARDRAIL TERMINAL SECTIONS AND STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS).

MAINTENANCE OF TRAFFIC: UTILIZE STANDARD 701301.

STAGE 1

CONSTRUCTION:

SOUTHBOUND LANE: REMOVE EXISTING GUARDRAIL AND TERMINAL SECTIONS REMOVE EXISTING AGGREGATE SHOULDERS ALONG SOUTHBOUND LANE.

PERFORM BRIDGE DECK PATCHING.

PERFORM BRIDGE DECK SCARIFICATION 3/4".

PLACE 2½" BRIDGE DECK LATEX CONCRETE OVERLAY.

PLACE 1¾" HMA SURFACE COURSE. INSTALL STEEL BAILING TYPE 2399

PLACE NEW GUARDRAIL TERMINAL SECTIONS. CONSTRUCT HMA AND AGGREGATE SHOULDER ON SOUTHBOUND SHOULDER.

MAINTENANCE OF TRAFFIC:

UTILIZE MAINTENANCE OF TRAFFIC DETAILS IN THE PLANS AND STANDARD 701321.

STAGE 2

CONSTRUCTION:

NORTHBOUND LANE:

PERFORM BRIDGE DECK PATCHING. PERFORM BRIDGE DECK SCARIFICATION ¾". PLACE 21/2" BRIDGE DECK LATEX CONCRETE OVERLAY. PLACE 134 HMA SURFACE COURSE. INSTALL STEEL RAILING, TYPE 2399.

MAINTENANCE OF TRAFFIC:

UTILIZE MAINTENANCE OF TRAFFIC DETAILS IN THE PLANS AND STANDARD 701321.

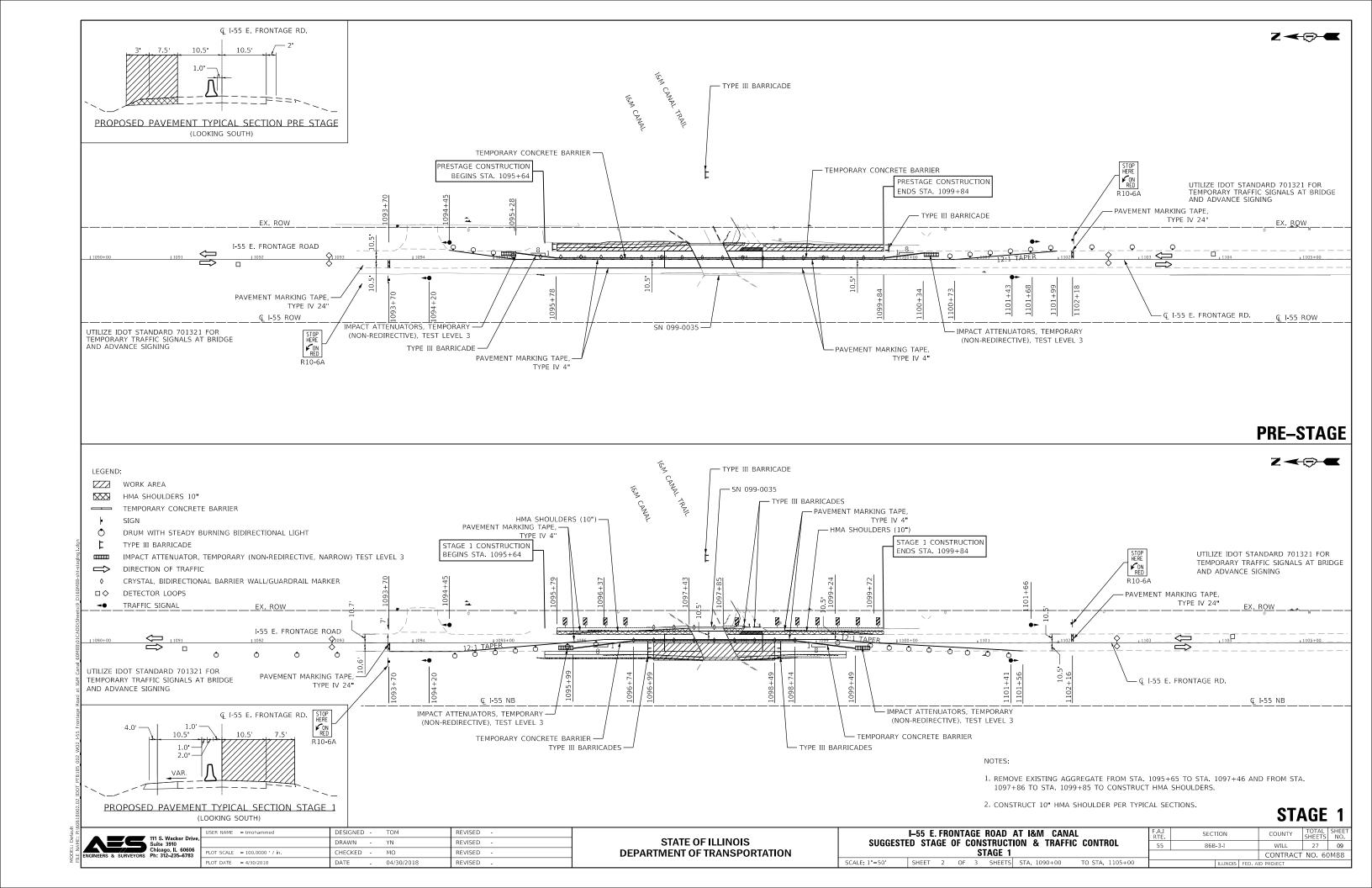
STAGE 3

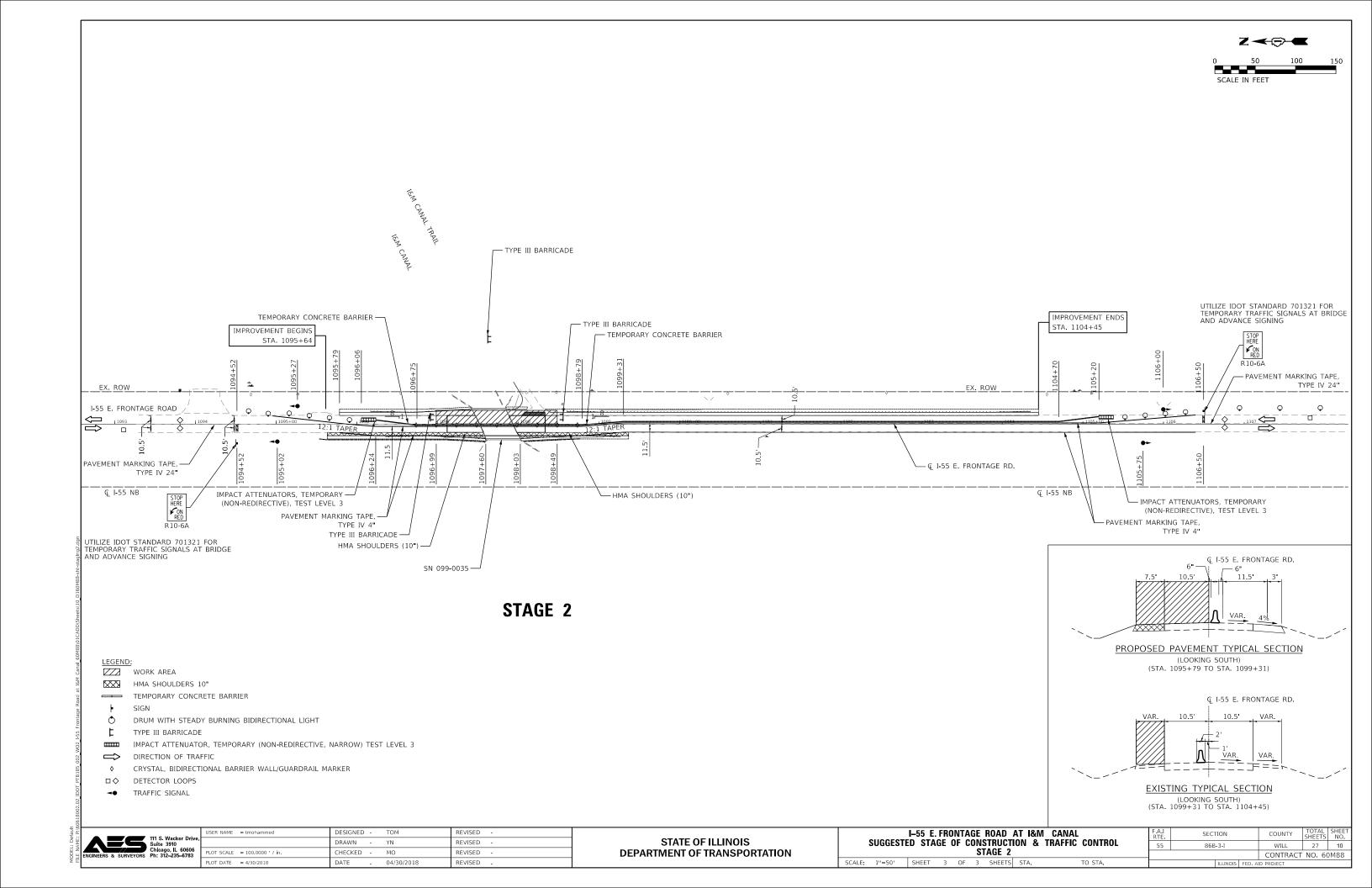
CONSTRUCTION:

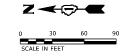
PLACE PERMANENT PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS.

MAINTENANCE OF TRAFFIC:

UTILIZE STANDARD 701301.

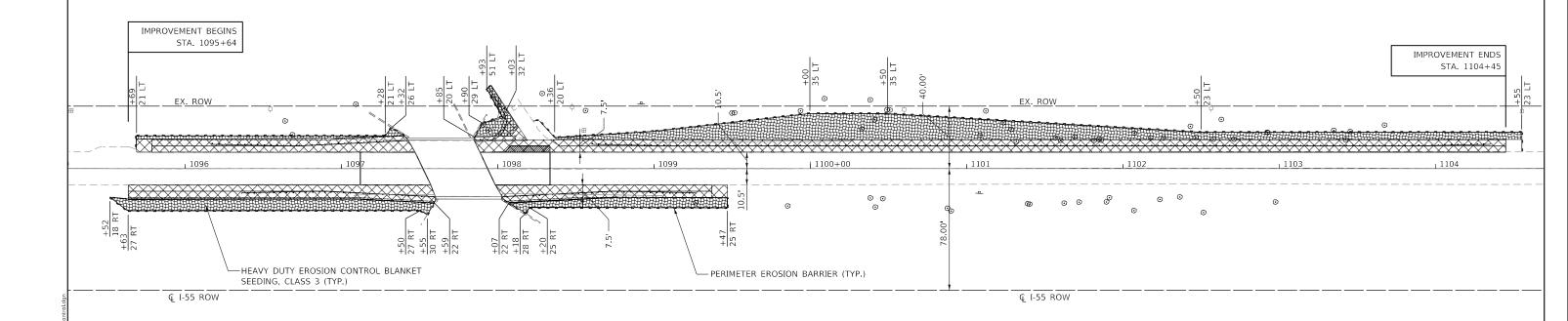






NOTES:

- 1. THE CONTRACTOR SHALL INSTALL PERIMETER EROSION BARRIER PRIOR TO STRIPPING OF VEGETATION
- 2. DIRECT OR INDIRECT PUMPING OF SEDIMENT LADEN WATER INTO STORM WATER FACILITY WITHOUT FILTRATION IS PROHIBITED
- 3. RUNOFF FROM EXCAVATED AREAS SHALL LEAVE THE SITE THROUGH SEDIMENT CONTROL DEVICES SHOWN IN IDOT STD. 280001, AND/OR NRCS DETAILS FROM THE MOST RECENT VERSION OF THE ILLINOIS URBAN MANUAL.
- 4. THE CONTRACTOR SHALL PROTECT ANY NECESSARY EARTH STOCKPILES WITH PERIMETER EROSION BARRIER
- 5. HEAVY DUTY EROSION CONTROL BLANKET SHALL BE USED FOR COVERING SLOPES STEEPER THAN 3H:1V



SEEDING AND EROSION CONTROL SCHEDULE

LOCATION	SIDE	TOPSOIL FURNISH AND PLACE, 4"	NITROGEN FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	SEEDING CLASS 3
STATION TO STATION	LT/RT	(SQ YD)	(POUND)	(POUND)	(ACRE)
I-55 FRONTAGE ROAD					
1095+64 TO 1097+52	LT	33	1	1	0.01
1095+64 TO 1097+52	RT	161	3	3	0.04
1097+94 TO 1104+45	LT	620	11	11	0.12
1097+94 TO 1099+47	RT	85	2	2	0.02
TOTAL		899	17	17	0.25

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PERIMETER EROSION BARRIER

EROSION CONTROL BLANKET

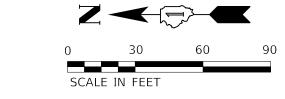
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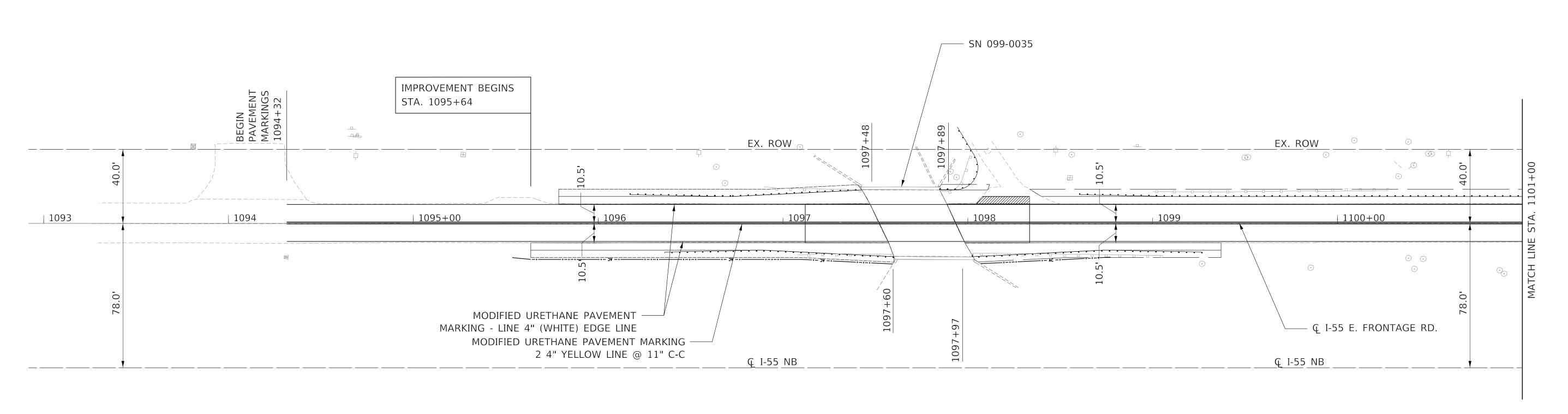
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VAME	111 S. Wacker Drive, Suite 3910	_
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	I-55 E. FRONTAGE ROAD AT I&M CANAL									
	EROSION CONTROL PLAN									
SCALE:	1" = 30'	SHEET	1	OF	1	SHEETS	STA.	TO STA.		

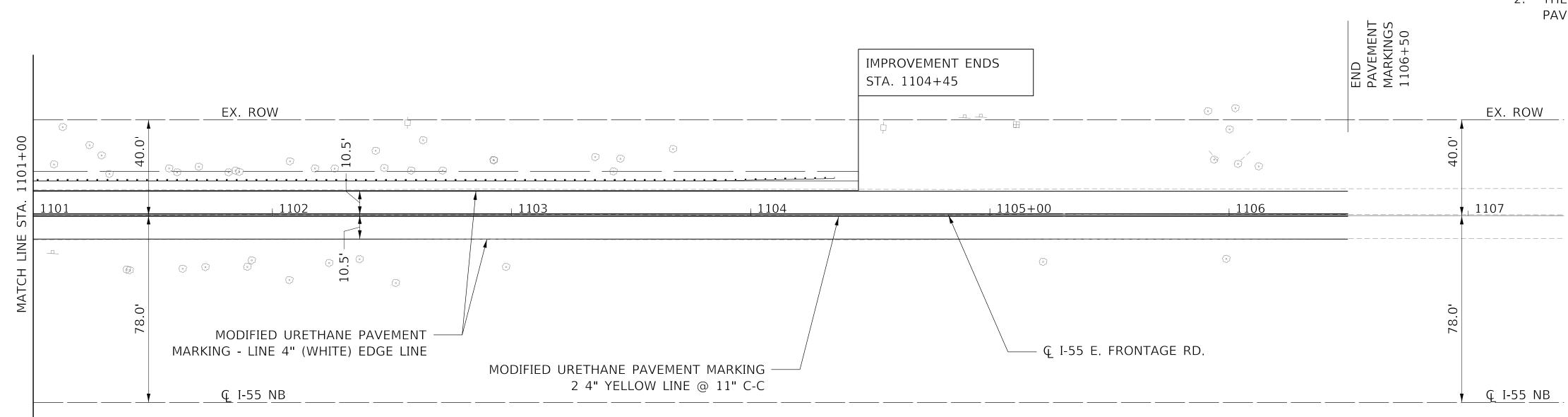
F.A.I RTE	SECTION		COUNTY	TOTAL SHEETS	SHEE NO.	
55	86B-3-I		WILL	27	11	
				CONTRACT	NO. 60	38MC
	ILLIN	OIS	FED. A	ID PROJECT		





NOTES:

- 1. TYPICAL PAVEMENT MARKINGS INSTALLED ACCORDING TO IDOT'S D1 DETAIL TC-13
- 2. THE PROPOSED PAVEMENT MARKINGS SHALL BE PLACED IN THE SAME LOCATIONS AS THE EXISTING PAVEMENT MARKINGS OR AS DIRECTED BY THE ENGINEER.



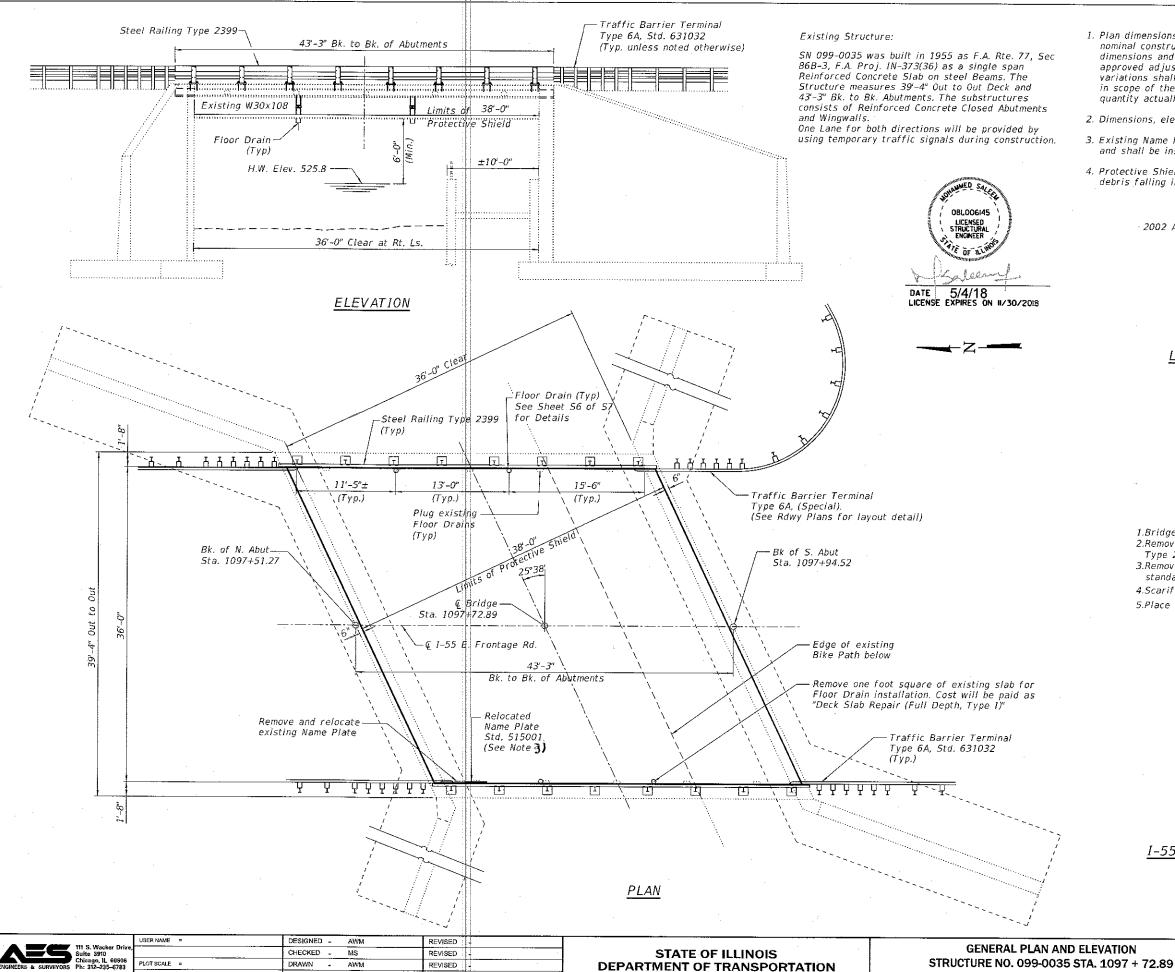
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STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

			RONTAGE			CANAL
		PAVI	EMENT M	IAKKING	PLAN	
SCALE:	1"=30'	SHEET	OF	SHEETS	STA.	TO STA.

F.A.I RTE.	SECT	CTION		COUNTY	TOTAL SHEETS	SHEET NO.
55	86B	-3-I		WILL	27	12
				CONTRACT	NO. 60	88MC
		ILLINOIS	FED. Al	D PROJECT		



GENERAL NOTES

- 1. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering materials. Such variations shall not be cause for additional compensation for a change in scope of the work. However, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- 2. Dimensions, elevations and Stations were taken from the existing plans.
- 3. Existing Name Plate shall be removed so as not to damage the plate and shall be installed per Section 515 of Standard Specifications.
- 4. Protective Shield system shall be erected and maintained to prevent any debris falling into the canal or trail path.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications, 17th Edition

DESIGN STRESSES

EXISTING

fc = 1,400 psi (Superstructure)fc = 800 psi (Substructure) fs = 20,000 psi (Reinforcement) fs = 18,000 psi (Structural)

Soil Pressure = 3.04 K/sq.ft.

LAST DELAMINATION SURVEY

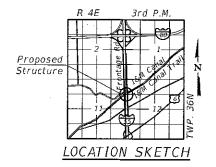
August 25. 2017

INDEX OF SHEETS

- S1 General Plan and Elevation
- S2 Stage Construction Details
- 53 Temporary Concrete Barrier
- 54 Bridge Deck & Abutment Repair Details S5 - Deck Plan and Cross Section
- 56 Parapet Elevation Section and Details
- S7 Steel Railing, Type 2399

SCOPE OF WORK

- 1.Bridge Deck Patching Partial and Full Depth 2.Remove concrete Railing and Post and replace with Type 2399 Steel Railing.
- 3.Remove and replace steel guardrail with current standards.
- 4.Scarify Bridge Deck ¾"
- 5.Place $2\frac{1}{2}$ " Latex Concrete Overlay on Bridge Deck.



GENERAL PLAN & ELEVATION I-55 E. FRONTAGE RD. OVER I&M CANAL

> F.A.I. RT. 55 - SEC. 86B-3-I WILL COUNTY

STATION 1097+72.89 STRUCTURE NO. 099-0035

GENERAL PLAN AND ELEVATION

SHEET S1 OF S7 SHEETS

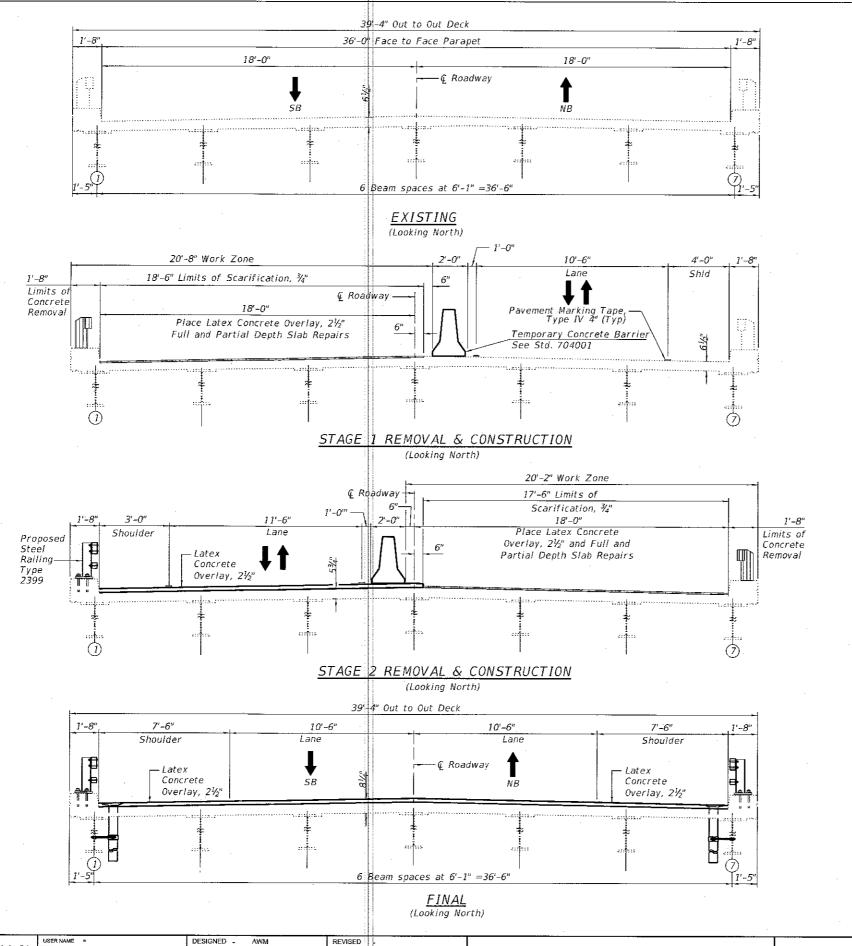
COUNTY TOTAL SHEETS NO. SECTION WILL 27 13 55 CONTRACT NO. 60M88 ILLINOIS FED, AID PROJECT

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STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

TOTAL BILL OF MATERIAL

ITEM	<u>UNI</u> T	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	3		3
Protective Shield	Sq. Yd.	184	-	184
Floor Drains	Each	4	_	4
Bridge Deck Grooving	Sg. Yd.	173	-	173
Steel Railing, Type 2399	Foot	87	-	87
Bridge Deck Latex Concrete Overlay, 21/2"	5q. Yd.	173	_	173
Bridge Deck Scarification ¾"	Sq. Yd.	173	-	173
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	-	31	31
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	2	-	2
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	29	-	29
Relocating Name Plates	Each	1	-	1

LEGEND:

Bridge Deck Scarification 3/4"

Concrete Removal

Deck Slab repair are not shown for clarity of drawing. See Sheet S4 of S7 for Deck Slab repairs.

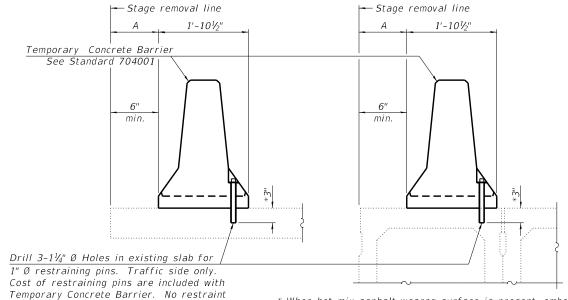
SECTION STAGE CONSTRUCTION DETAILS STRUCTURE NO. 099-0035 STA. 1097 + 72.89 SHEET S2 OF S7 SHEETS

COUNTY WILL CONTRACT NO. 60M88

PLOT SCALE =

– See Detail I, II or III When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



* When hot-mix asphalt wearng surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

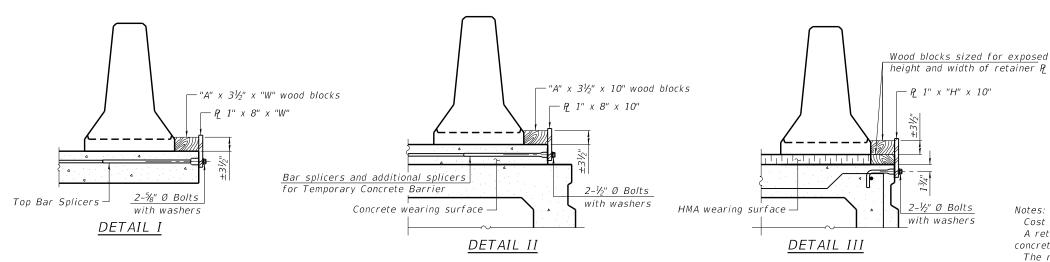
US Std. $1\frac{1}{16}$ " I.D. x $2\frac{1}{2}$ " O.D. x approx. 8 guage thick washer RESTRAINING PIN

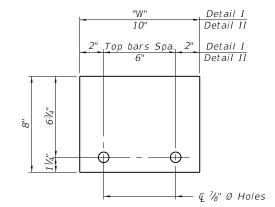
1x8 UNC

SECTIONS THRU SLAB OR DECK BEAM

is required when "A" is greater than 3'-1".

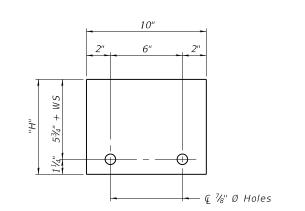
EXISTING SLAB



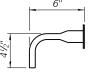


STEEL RETAINER P 1" x 8" x "W"

(Detail I and II)



STEEL RETAINER P 1" x "H" x 10" (Detail III)



BAR SPLICER FOR #4 BAR - DETAIL III

Notes:

Cost of retainer assembly is included with Temporary Concrete Barrier. A retainer assembly shall be located at the approximate Q of each temporary concrete barrier.

The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.

When the 'A' dimension is less than $1\frac{1}{2}$ ", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

- Detail I Installation for a new bridge deck or bridge slab.
- Detail II Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.
- Detail III Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

R-27

8-11-2017

	US
111 S. Wacker Drive Suite 3910	1
Chicago, IL 60606 ENGINEERS & SURVEYORS Ph: 312-235-6783	PL
	PL

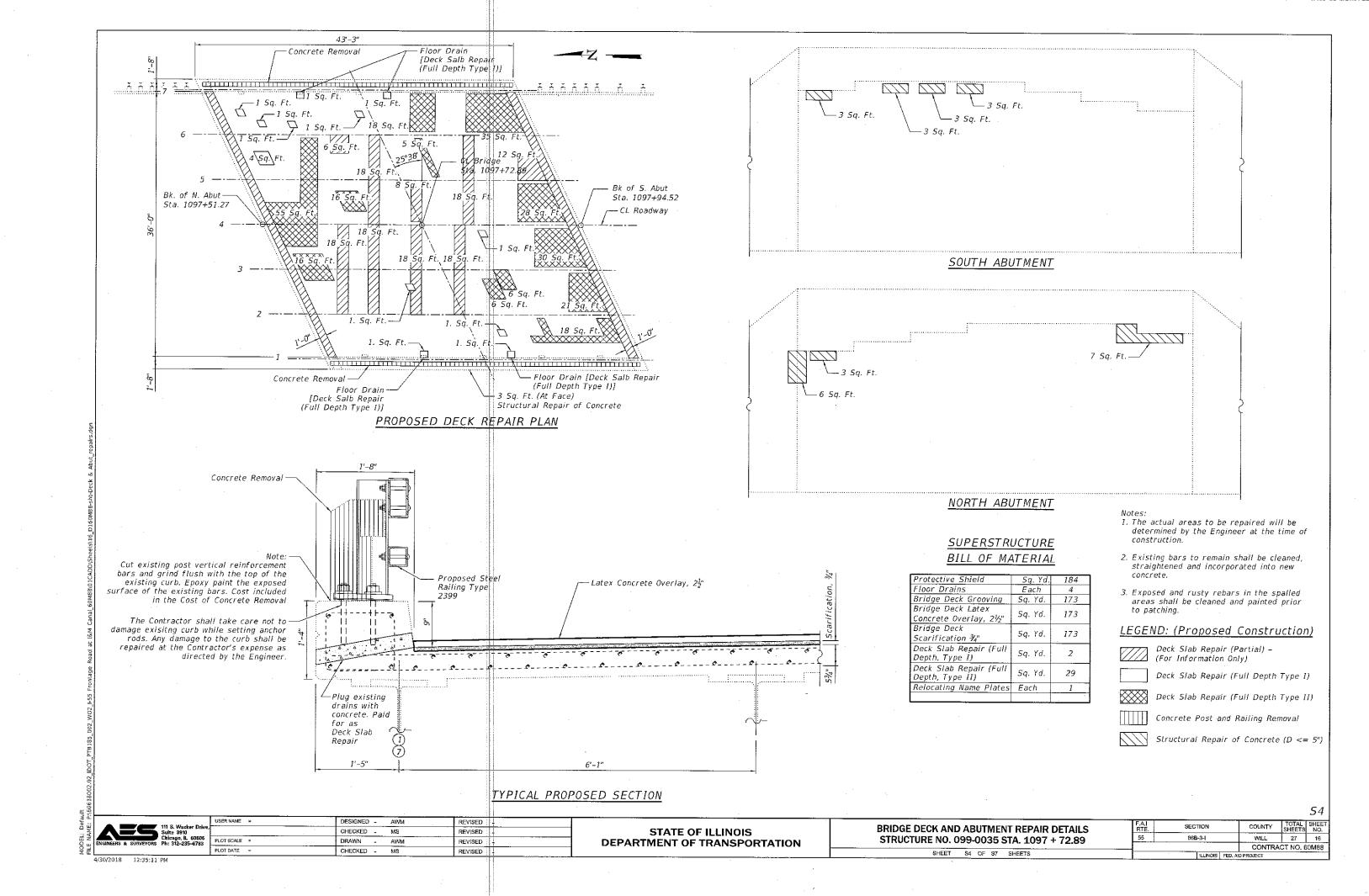
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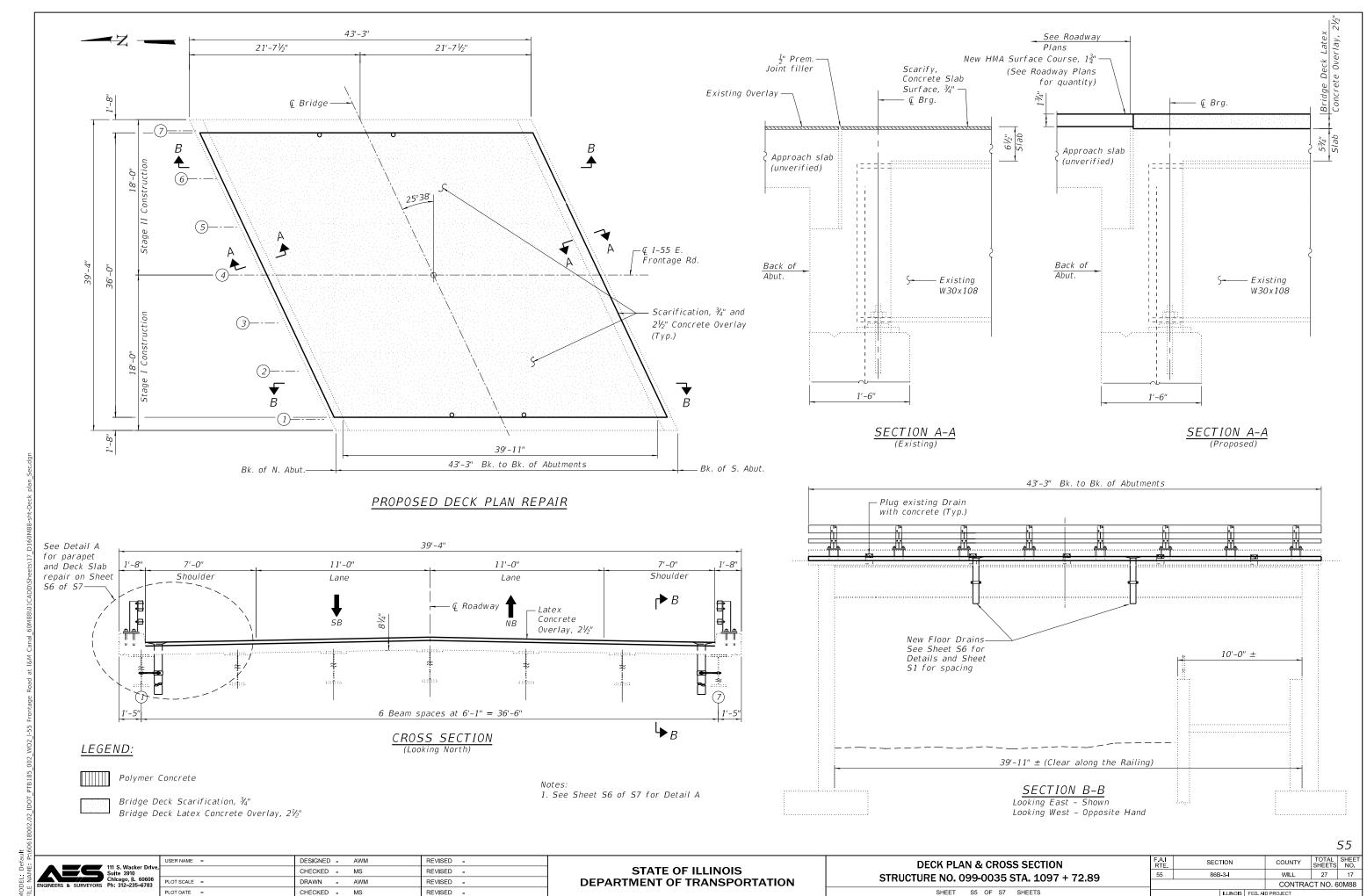
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION	F.A.I RTE.	
STRUCTURE NO. 099-0035 STA. 1097 + 72.89	55	
3111001011L1101 033-0033 31A, 1031 1 12,03		
SHEET S3 OF S7 SHEETS		

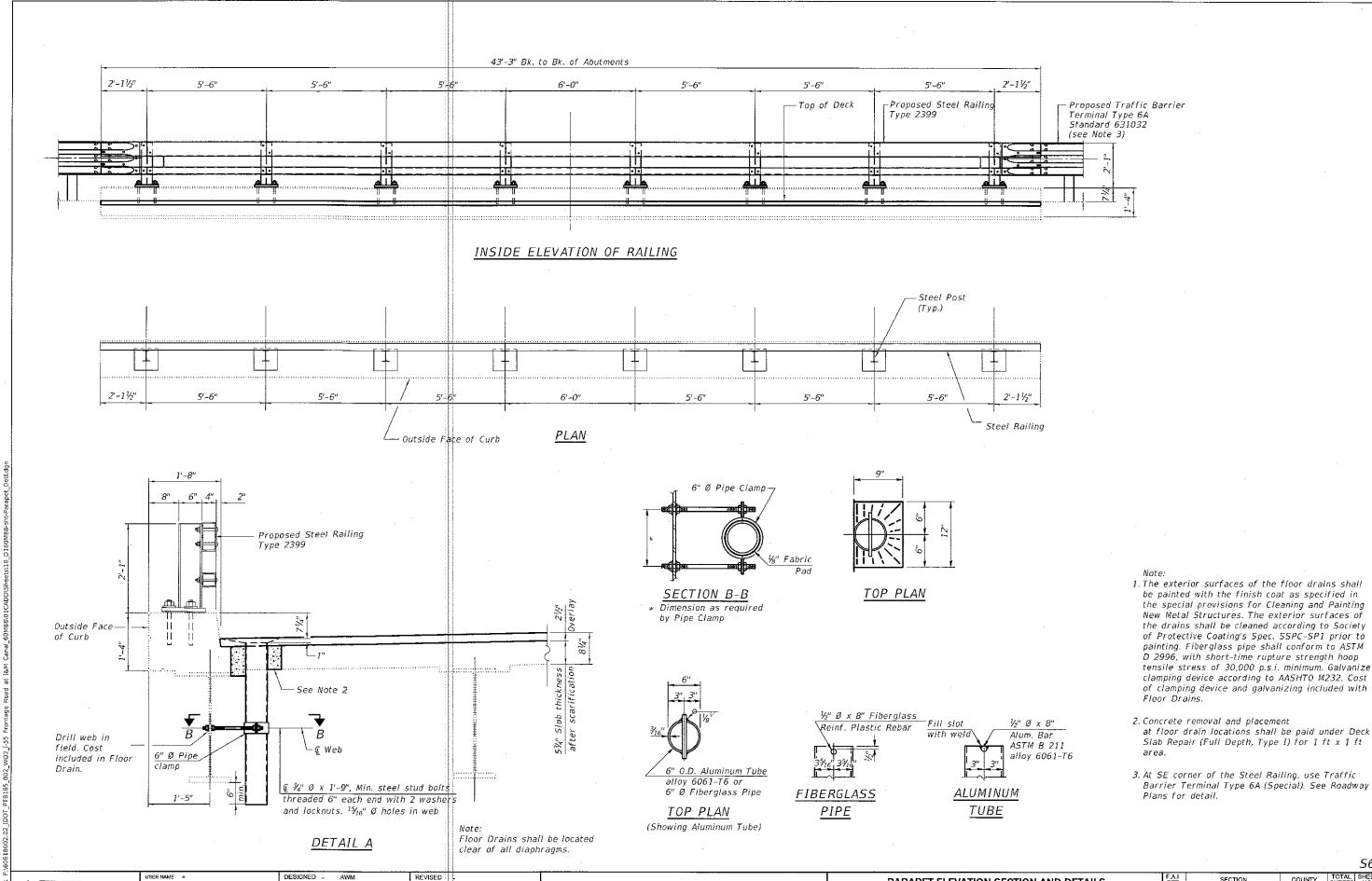
SECTION COUNTY 86B-3-I WILL 27 15 CONTRACT NO. 60M88

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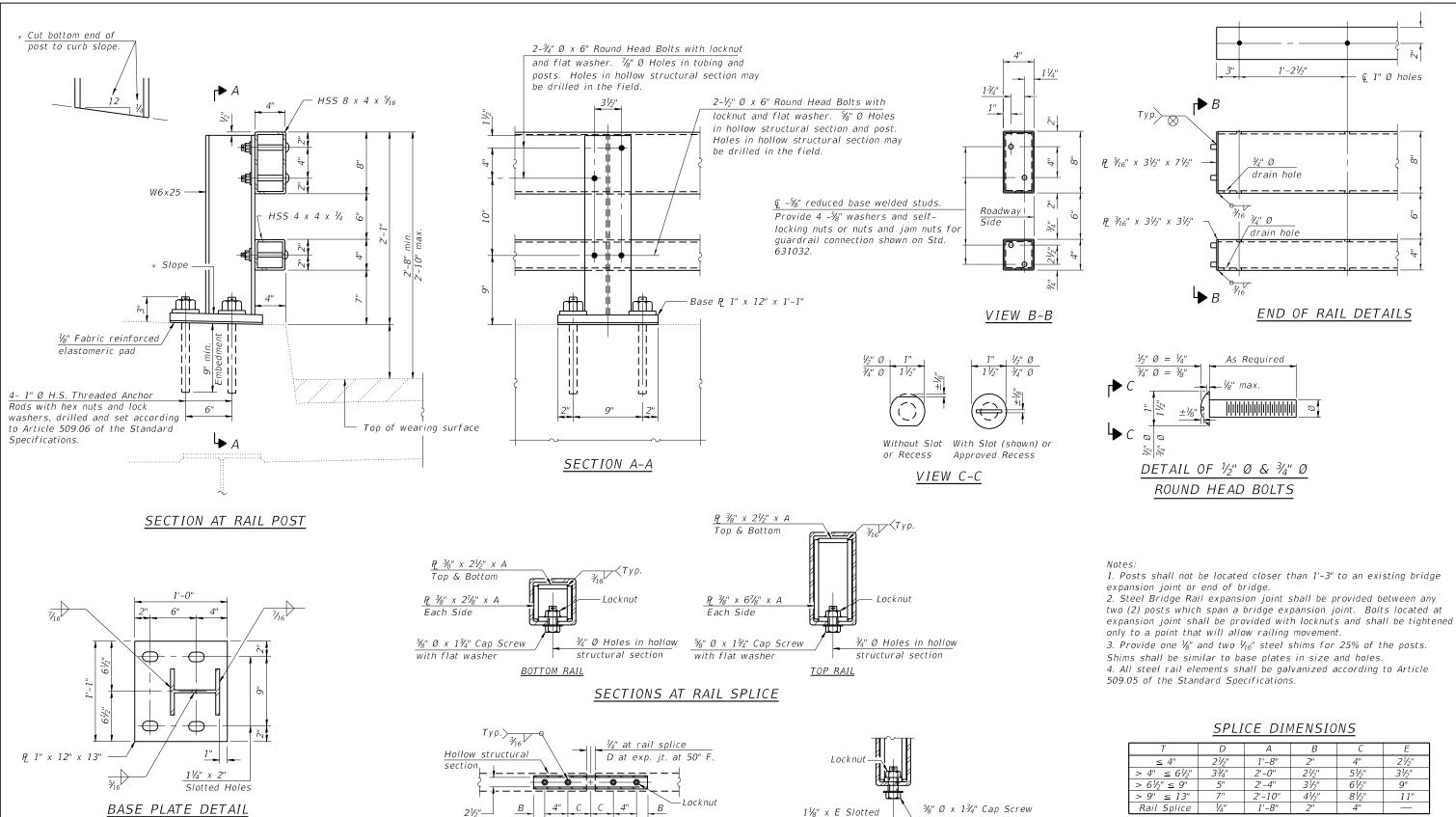
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

PARAPET ELEVATION SECTION AND DETAILS STRUCTURE NO. 099-0035 STA. 1097 + 72.89 SHEET S6 OF S7 SHEETS

F.A.I RTE. 55 SECTION SHEETS NO. 27 18 WILL CONTRACT NO. 60M88 ILLINOIS FED. AID PROJECT



1	D	A	В	L	E
≤ 4"	21/2"	1'-8"	2"	4"	21/2"
$> 4'' \le 6\frac{1}{2}''$	3¾"	2'-0"	21/2"	5½"	31/2"
$> 6\frac{1}{2}$ " ≤ 9 "	5"	2'-4"	31/2"	6½"	9"
> 9" ≤ 13"	7"	2'-10"	41/2"	81/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	
•					

T = Total movement at expansion joint as shown on the design plans

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	87

(6'-3" Maximum Post Spacing) R-31 8-11-2017

USER NAME = DESIGNED - AWM REVISED -CHECKED - MS REVISED -DRAWN AWM REVISED -PLOT DATE = CHECKED - MS REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Holes in hollow

structural section

RAIL SPLICE CONNECTION

AT EXPANSION JT.

1½16" Ø holes

in ¾" ₽_

PLAN-BOTT. SPLICE P

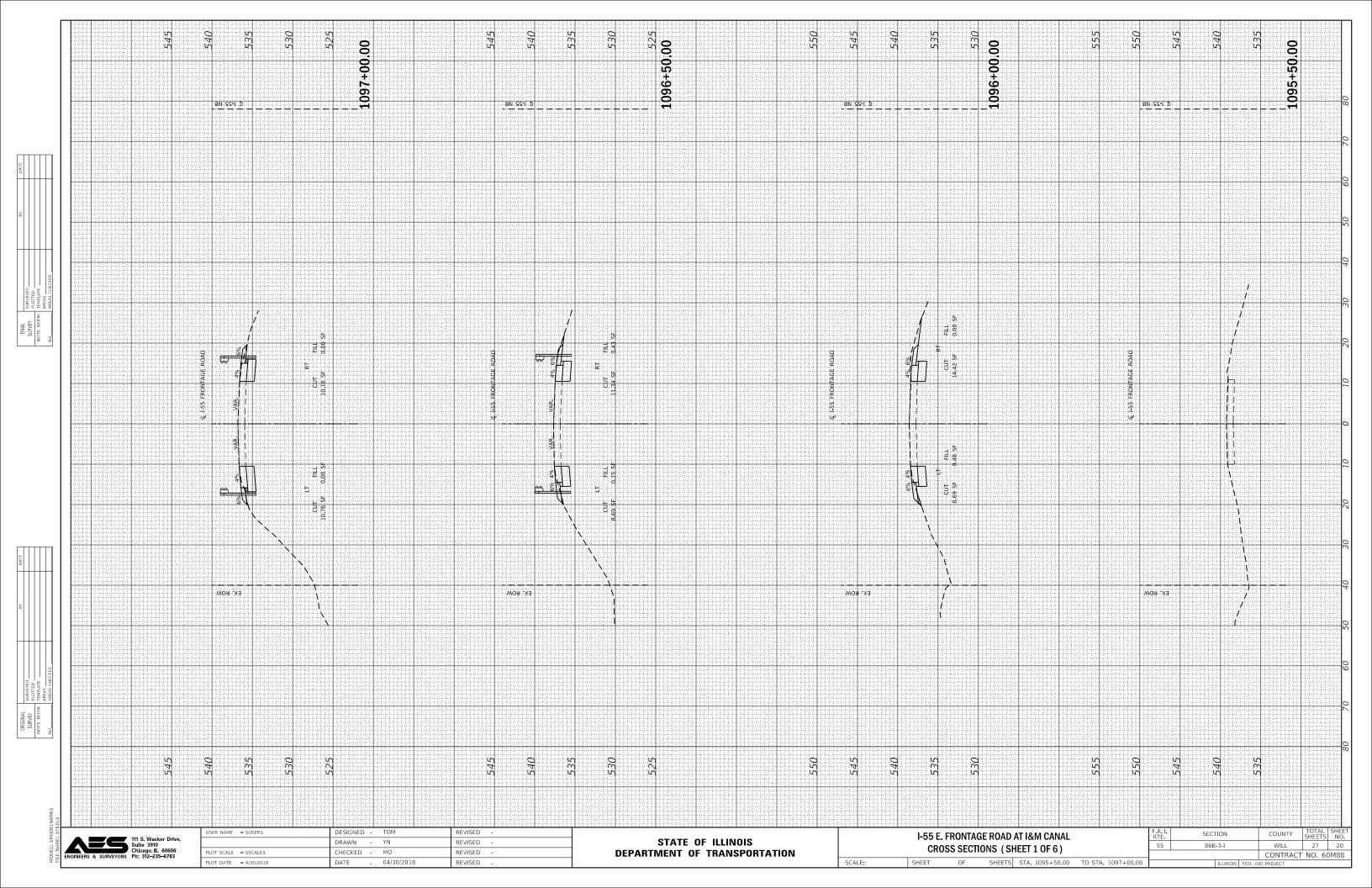
TYPICAL

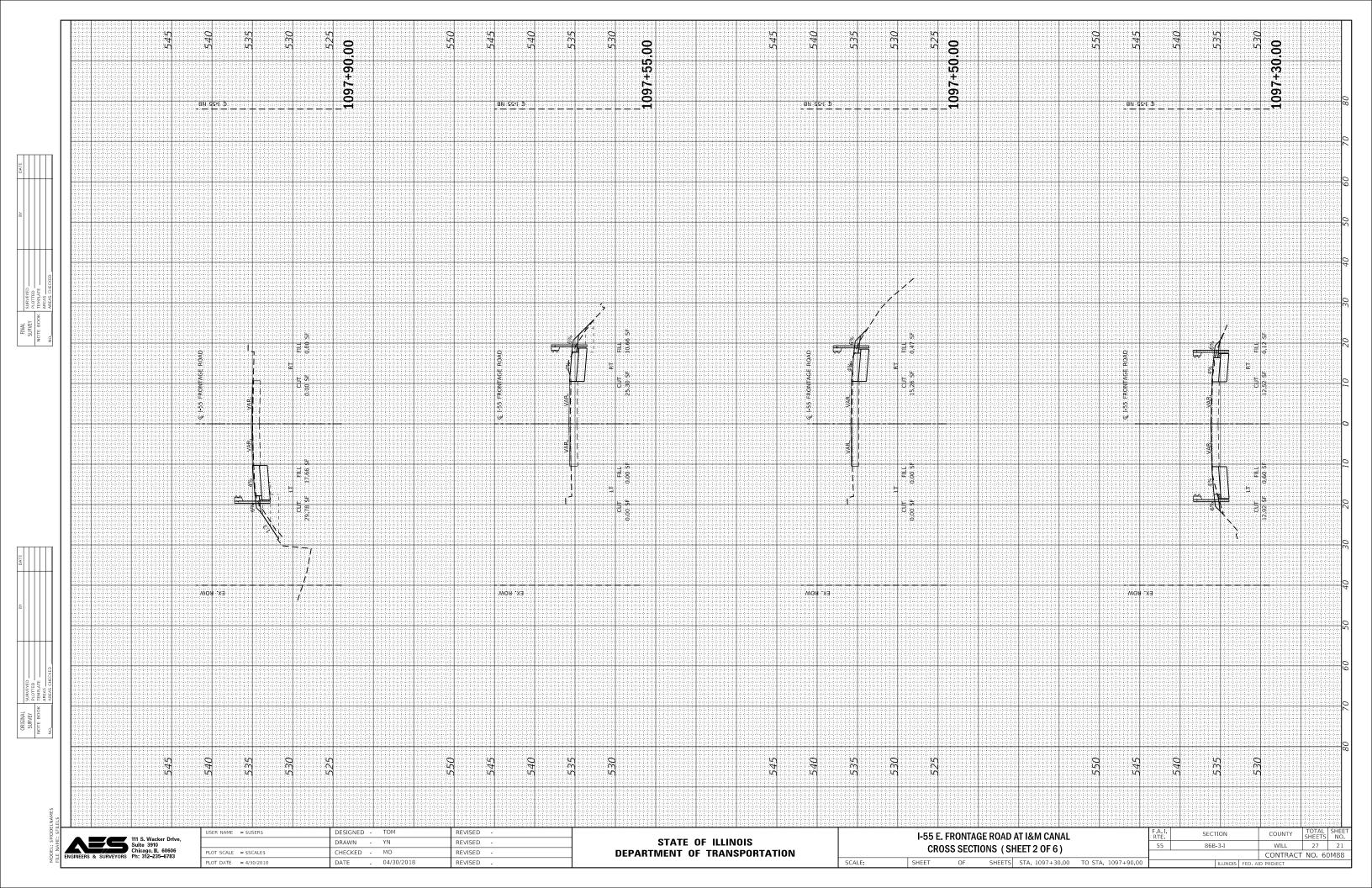
STEEL RAILING, TYPE 2399 STRUCTURE NO. 099-0035 STA. 1097 + 72.89 SHEET S7 OF S7 SHEETS

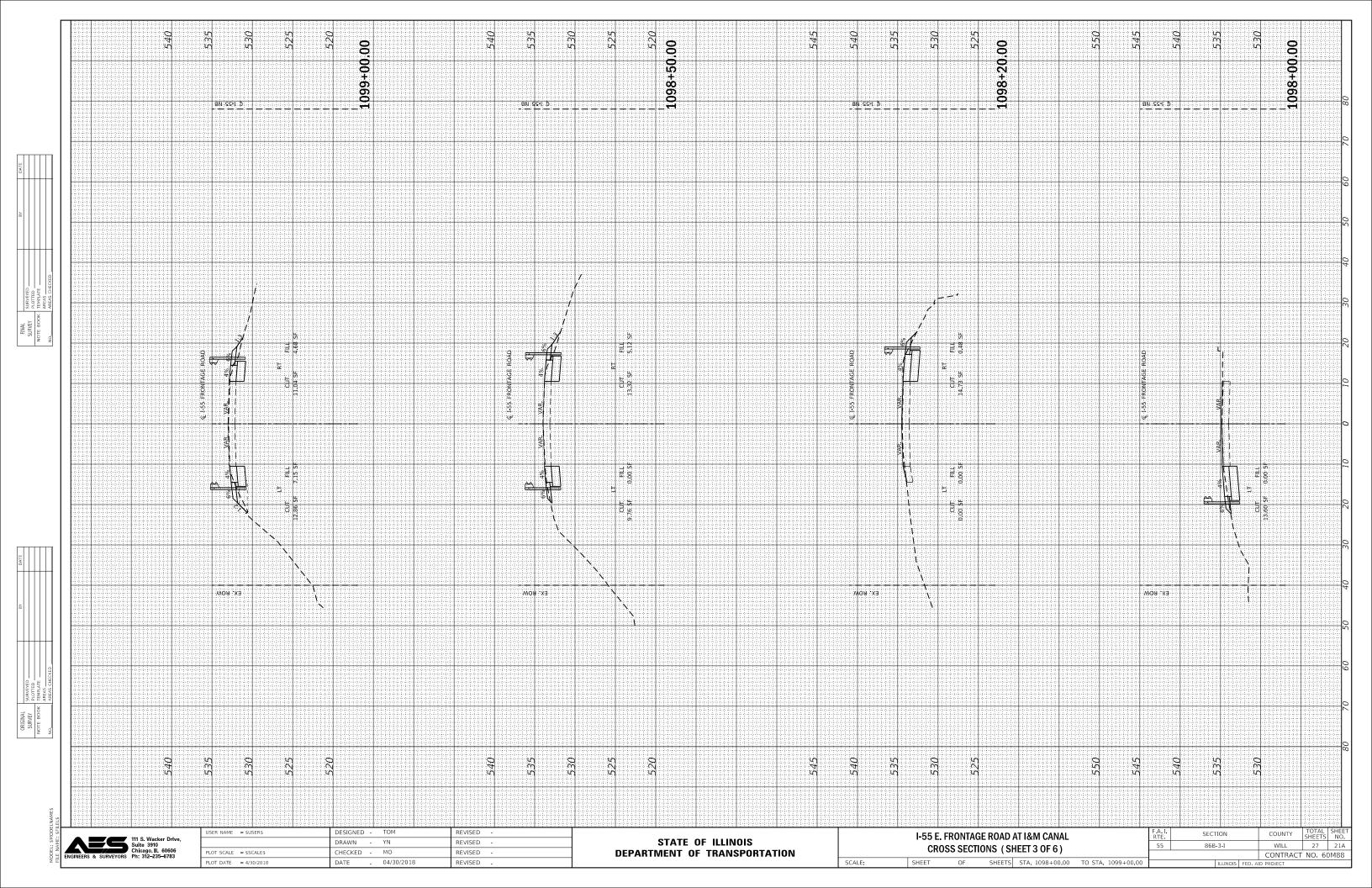
with flat washer & 3/4" Ø

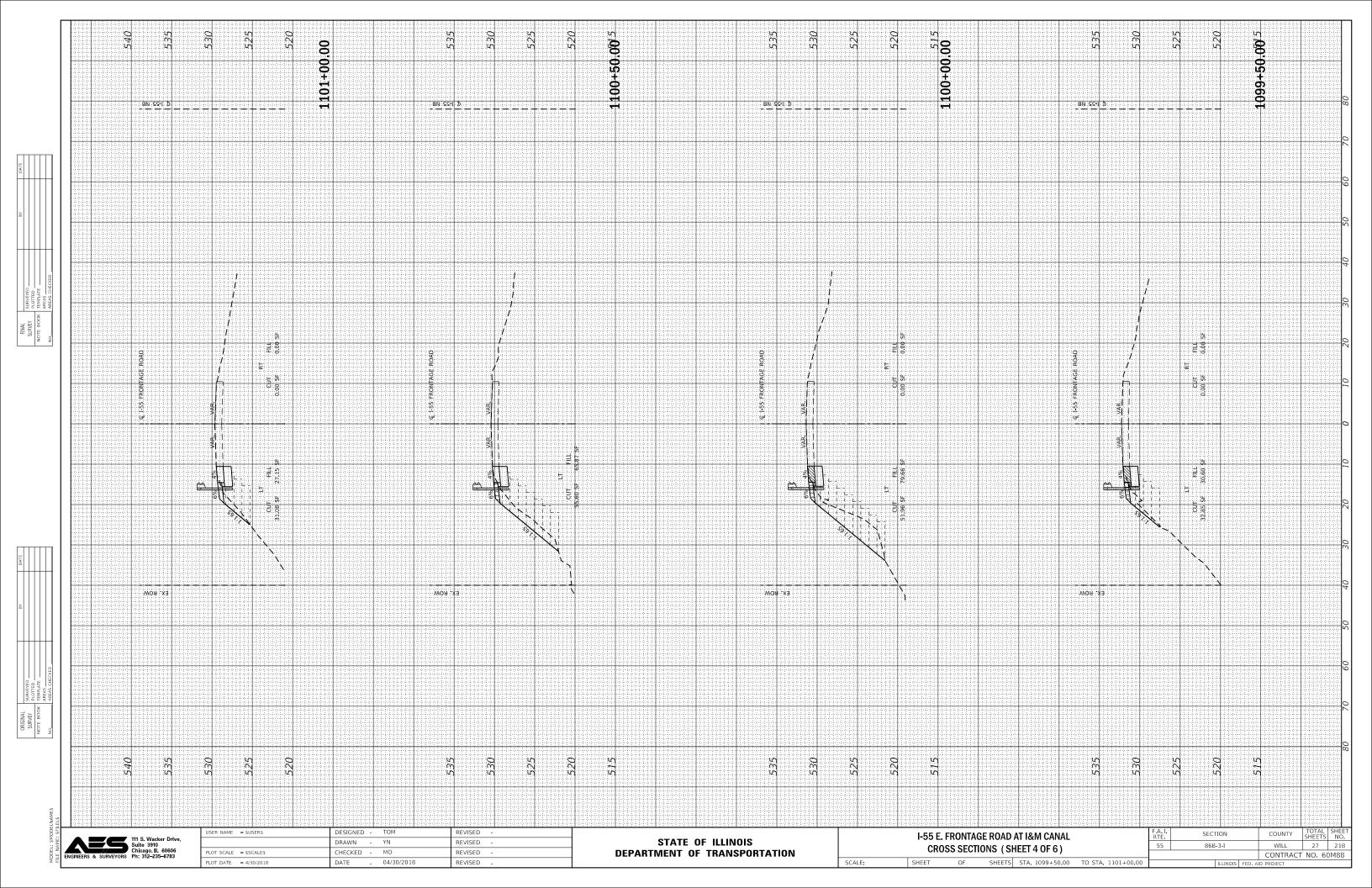
XS pipe spacer, ½" long.

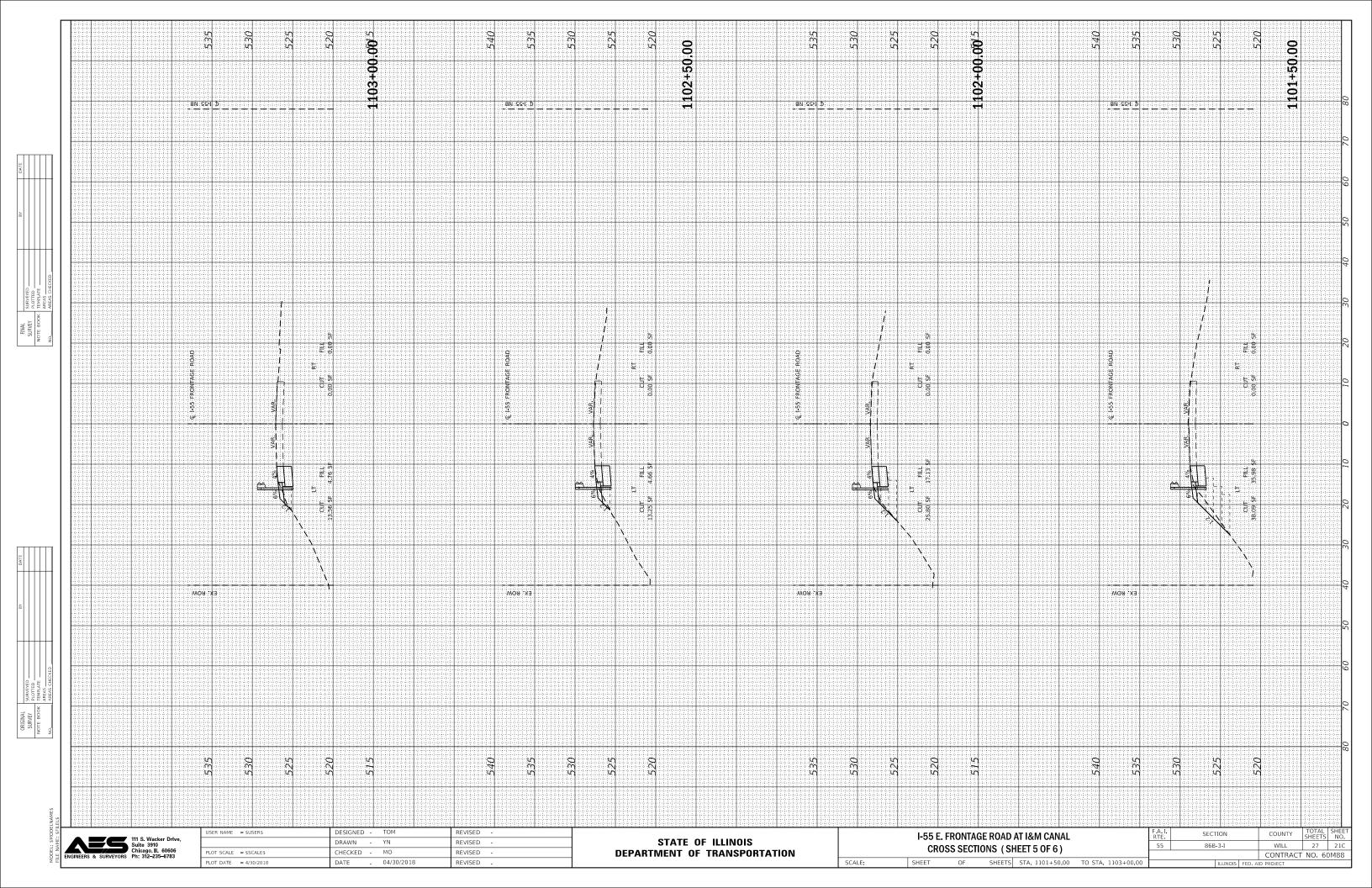
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			CONTRACT NO. 60M88				
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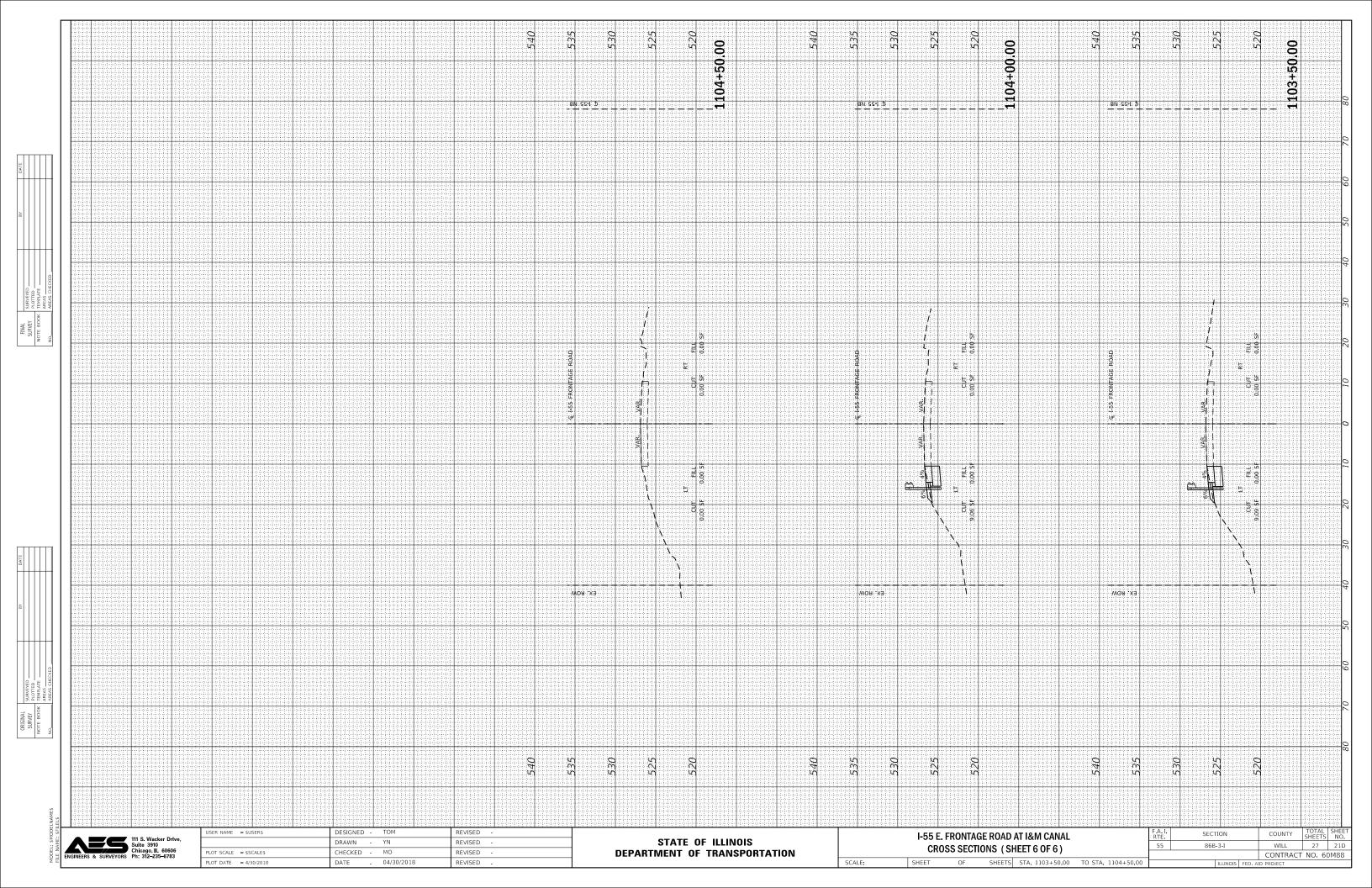


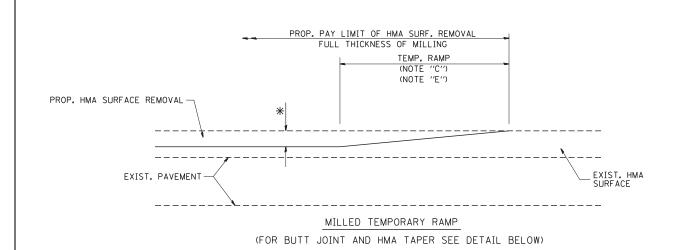




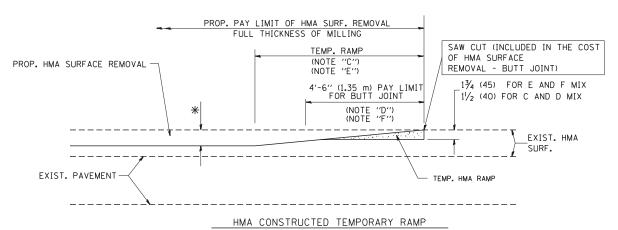








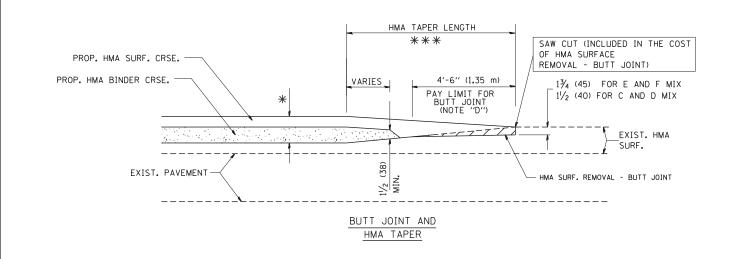
OPTION 1



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



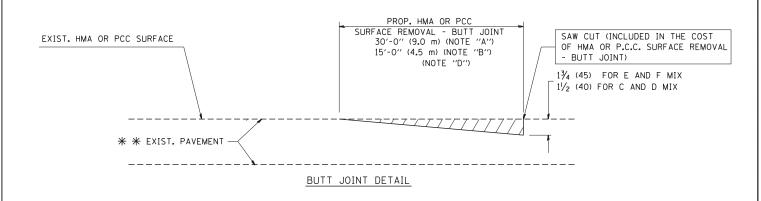
TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

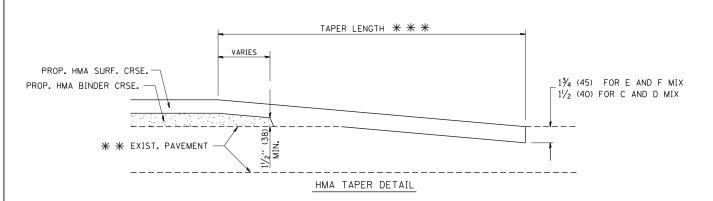
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS

OTHERWISE SHOWN.





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

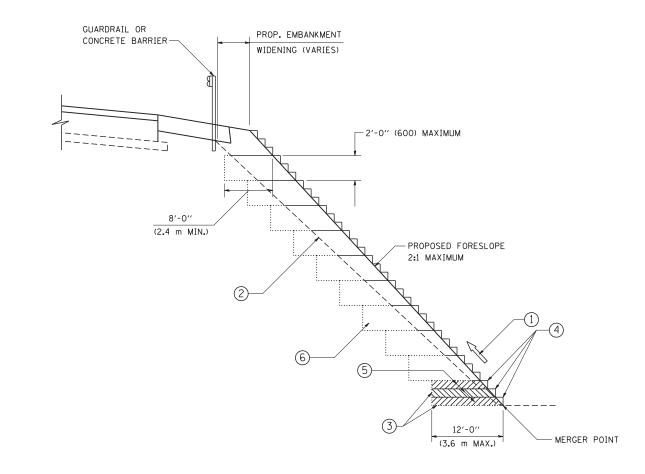
NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- ** * 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A") 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

SCALE: NONE



TYPICAL BENCHING DETAIL FOR EMBANKMENT

NOTES:

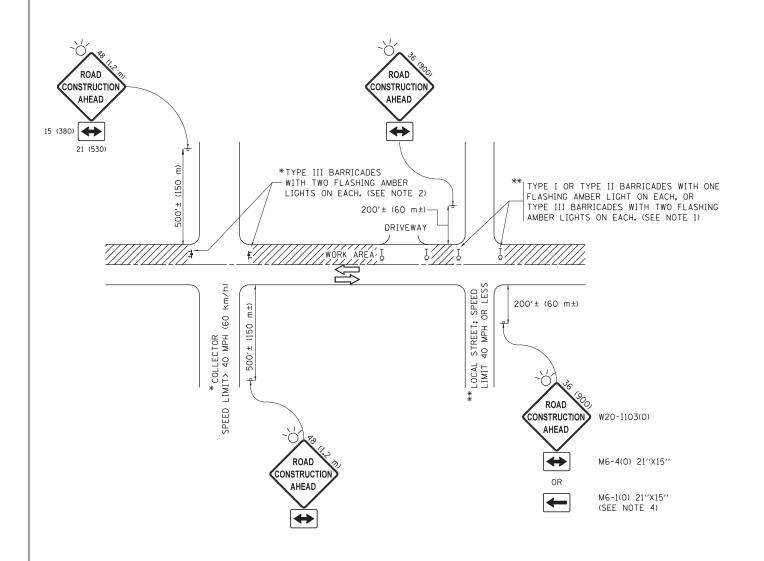
- CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03
 OF THE STANDARD SPECIFICATIONS.
- 3 BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- (4) TRIM TO FINAL SLOPE.
- (5) EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- 6 EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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	PLOT DATE = 1/4/2008	DATE	-	06-16-04	REVISED -	ı

STATI	E OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

BENCHING DETAIL						F.A.I. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
FOR EMBANKMENT WIDENING						55	86B-3-I	WILL	27	23
FOR EINDANKMENT WIDENING							BD-51	CONTRACT	NO.	60M88
SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	FED. R	DAD DIST. NO. 1 JULINOIS FED	AID PROJECT		



NOTES:

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200" (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500" (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710)
- 4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

SCALE: NONE

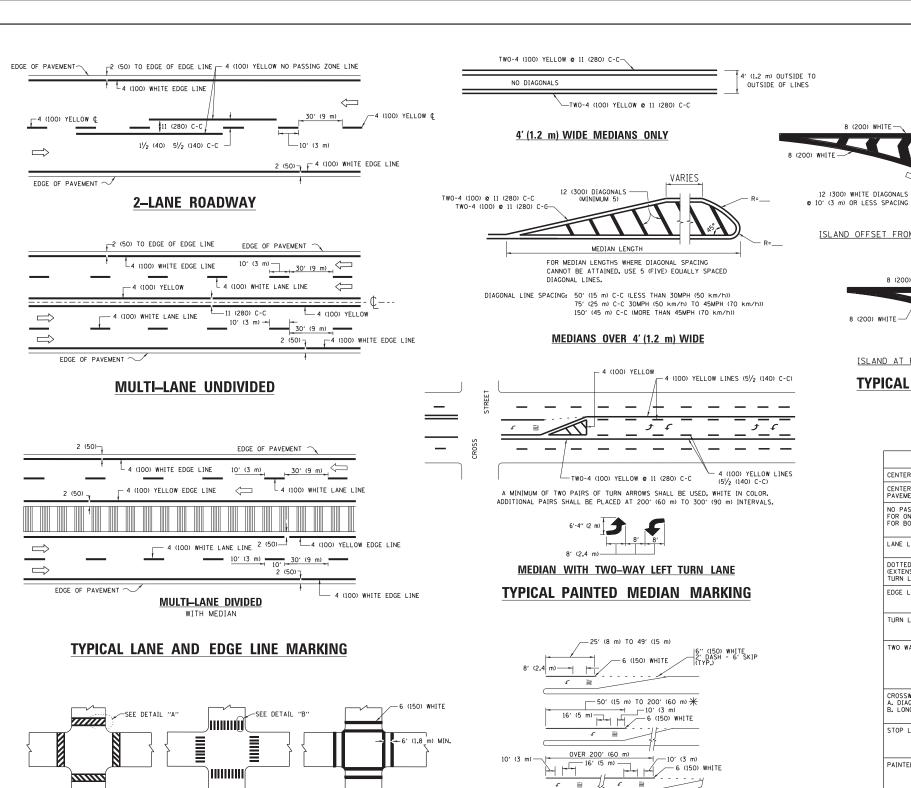
- 5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- 6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER
- 7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

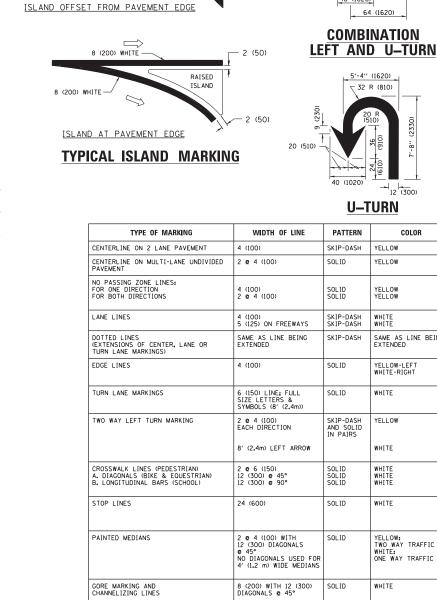
All dimensions are in inches (millimeters) unless otherwise shown.

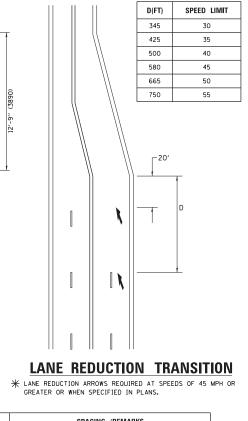
FILE NAME =	USER NAME = footemj	DESIGNED - L.H.A.	REVISED	- A. HOUSEH 10-15-96
pw:\\IL084EBIDINTEG.:1ll:no:s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\Dist	t @R‰wm \CADData\CADsheets\tc10.dgn	REVISED	-T. RAMMACHER 01-06-00
	PLOT SCALE = 50.000 '/ in.	CHECKED -	REVISED	- A. SCHUETZE 07-01-13
Default	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED	- A. SCHUETZE 09-15-16

STATE OF ILLINOIS							
DEPARTMENT	0F	TRANSPORTATION					

TRAFFIC CONTROL AND PROTECTION FOR	F.A.I RTE.	SECTION 86B-3-I	COUNTY	TOTAL SHEETS 27	SHEET NO.
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS	_	TC-10			0M88
SHEET 1 OF 1 SHEETS STA. TO STA.		ILL INOIS FED. AL	D PROJECT		







TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½; (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1,2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIACONALS: 15' (4,5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) T0 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA 0F: "%"=3.6 50. FT. (0.33 m ²) EACH "X"=54.0 S0. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8′)	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters

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TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF

6 (150) WHITE

DETAIL "A"

2' (600)

DETAIL "B"

12 (300) WHITE

PEDESTRIAN

BICYCLE & EQUESTRIAN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.

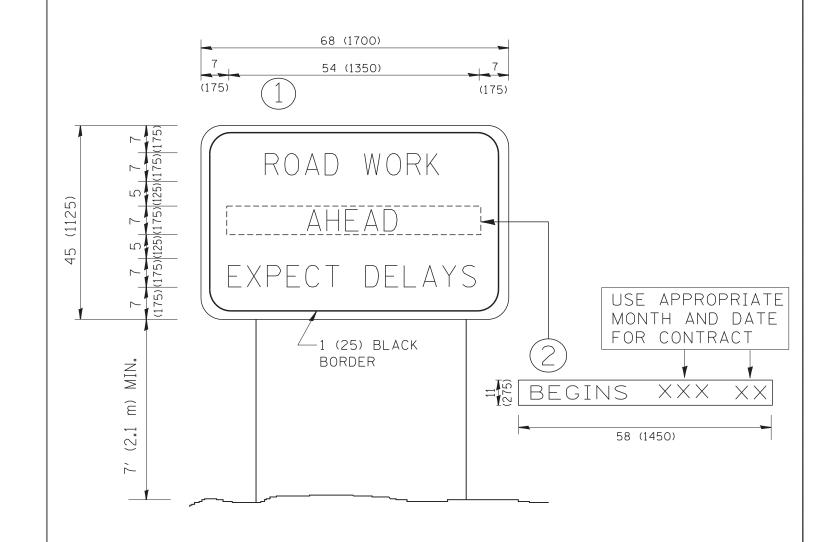
ARROW - "ONLY".

T AREA = 15.6 SO. FT. (1.5 m²) ONLY AREA = 20.8 SO. FT. (1.9 m²)

** TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



NOTES:

- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
- 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
- 7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97			ARTERIAL ROAD		F.A.I.	SECTION	COUNTY	TOTAL	SHEET NO.
W:\diststd\22x34\tc22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS		INFORMATION SIGN	55	86B-3-I	WILL	27	27	
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION		INFURMATION SIGN			TC-22	CONTRAC	T NO.	60M88
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD		FED. AID PROJECT		