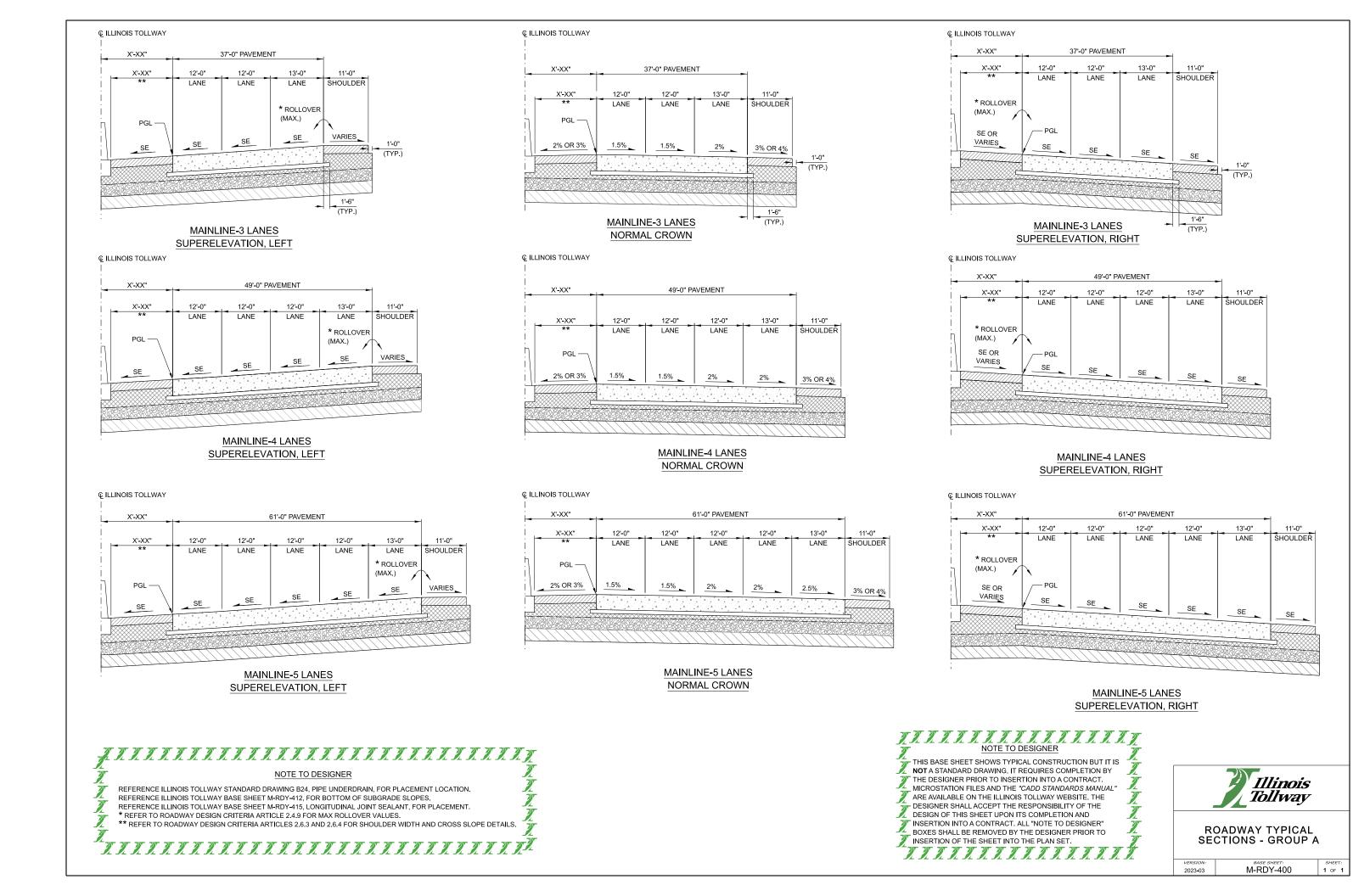
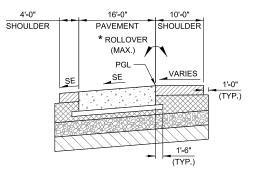
Illinois Tollway Base Sheet Revisions

Base Shee	et Drawings	
Drawing	Modification Summary	Effective: 03-01-2025
	Roadway (RDY) - S	eries 400
M-RDY-40		LE
Sheet 1, 2	rterieed pay item for 7 me manee for reeting	Unclassified Soil" from JT202007 to JT154207.
Sheet 1	Added new note 18 in 'Note to Designer': "K retaining wall) unless there is no excavation	eep all tables(earthwork, topsoil, incidental, and or placement of that type on the contract."
M-RDY-40	B APPROACH SLAB, MAINLINE	
Sheet 3	Added porous granular backfill to the Longitu	idinal Cross Section similar to SDM Figure 10.3.7.
M-RDY-40	APPROACH SLAB, RAMP	
Sheet 3	Added porous granular backfill to the Longitu	dinal Cross Section similar to SDM Figure 10.3.7.
M-RDY-41	PRECAST APPROACH SLAB W/CIP TRAN	ISITION SI AR
Sheet 3		Idinal Cross Section similar to SDM Figure 10.3.7.
Oncot o	Added porous grandial backfill to the Longito	idinal Cross Section similar to SDWT igure 10.5.7.
M-RDY-41	ENVIRONMENTAL SOIL CLASSIFICATION	I
		s version and CADD standard used to create the
M-RDY-41		
Sheet 1	Removed 'Subgrade Filter Fabric (JI282010) for bar splicing details for sleeper slabs.	' from pavement details. Added 'Note to Designer'
Sheet 2	Removed 'Subgrade Filter Fabric (JI282010)	
Sheet 3	Added pavement marking details for the pave Loop System. Added 'Note to Designer' for lo	ement area that is in proximity to the Quantum pop and conduit layout dimensions.
M-RDY-41		
Sheet 1		
Sheet 2	Removed 'Subgrade Filter Fabric (JI282010)	
Sheet 3	Added pavement marking details for the pave Loop System. Added 'Note to Designer' for lo	ement area that is in proximity to the Quantum pop and conduit layout dimensions.

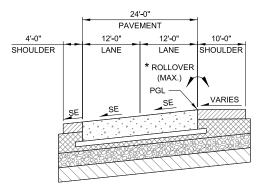
Retired Standard

New Sheet

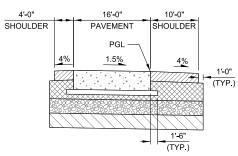




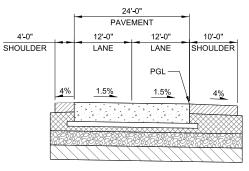
RAMP-1 LANE SUPERELEVATION LEFT



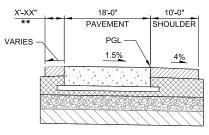
RAMP-2 LANES SUPERELEVATION LEFT



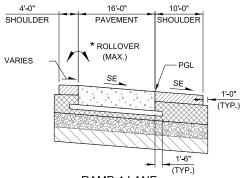
RAMP-1 LANE NORMAL CROWN



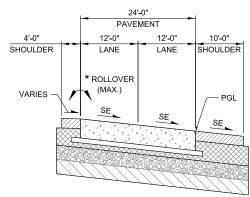
RAMP-2 LANES NORMAL CROWN



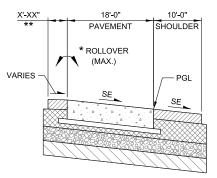
LOOP RAMP NORMAL CROWN



RAMP-1 LANE SUPERELEVATION RIGHT



RAMP-2 LANES SUPERELEVATION RIGHT



LOOP RAMP SUPERELEVATION RIGHT

THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.



ROADWAY TYPICAL SECTIONS - GROUP B

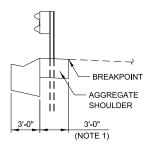
2023-03

1 OF 1

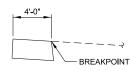
M-RDY-401



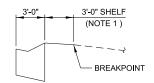




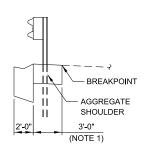
GUTTER, TYPE G-3 WITH GUARDRAIL



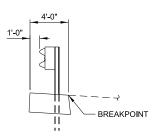
AGGREGATE SHOULDER (NOTE 2)



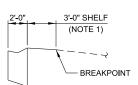
GUTTER, TYPE G-3



GUTTER, TYPE G-2 WITH GUARDRAIL



AGGREGATE SHOULDER WITH GUARDRAIL (NOTE 2)



GUTTER, TYPE G-2

NOTES:

- 1. SLOPE TOWARD GUTTER AT 6% WHEN IN CUT SECTION AND SLOPE AWAY FROM GUTTER AT 6% WHEN IN FILL SECTION.
- 2. AGGREGATE SHOULDER SLOPE SHALL NOT BE FLATTER THAN ADJACENT PAVED SHOULDER.

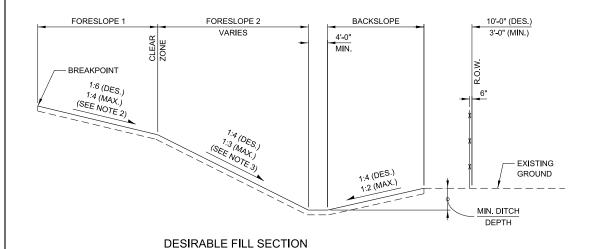
THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS

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MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT, ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.



ROADWAY TYPICAL SECTIONS - GROUP D

2020-03 M-RDY-403 1 OF 1



SIE	ESLOPES	HIERAR	CHY										
(IN ORDER O	OF PREFERE	NCE FOR I	FILL SECTION)										
FORESLO	OPE ***	DITCH	BACKSLOPE										
1	2	(MIN.)	D/(O/(OEO) E										
1:6 OR		4'	1:4 OR										
FLATTER	_	7	FLATTER										
1:6	1:4	4'	1:4										
1:6													
1:6	1:3	4'	1:3										
1:4	-	4'	1:3										
1:4	-	4'	1:2										
1:4	1:3	4'	1:3										
1:6	1:3	4'	1:2										
1:4	1:3	4'	1:2										
1:6	1: 2.5 **	4'	1:2										
1:2.5 *	-	4'	1:3										
1:2.5 *	-	4'	1:2										
1:2.5 *	-	2' **	1:2										
REFER TO RDC ARTICLE 2.6.8 * ** ***													
	R DESIGN REQU												



FLAT

VARIES

SEE

10'-0" (DES.)

3'-0" (MIN.)

MIN. DITCH DEPTH

EXISTING

GROUND

37'-4"

- BREAKPOINT

BREAKPOINT 4'-0" (DES.) 2'-0" (MIN.) 1:2 (MAX.) MIN. DITCH DEPTH



1:2 (

NOTES:

- ALL SLOPES ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENTS TO UNITS OF HORIZONTAL DISPLACEMENTS (V:H).
- 2. SLOPE SHALL BE 1:6 OR FLATTER BEHIND GUTTER WITHOUT GUARDRAIL; IN ALL OTHER CASES THE MAXIMUM SLOPE SHALL BE 1:4. IF 1:4 SLOPE IS USED, INCREASE WIDTH BASED ON CLEAR ZONE REQUIREMENTS.
- 3. FORESLOPE 2 (SEE THE SIDESLOPES HIERARCHY TABLE) STEEPER THAN 1:3 USED FOR THE LOWER SLOPE ON A BARN-ROOF SECTION REQUIRES A DESIGN DEVIATION.
- FORESLOPES STEEPER THAN 1:4 USED WHEN BARN-ROOF SECTION IS NOT USED AND WHEN FILL HEIGHT IS LESS THAN 9' REQUIRE A DESIGN DEVIATION.
- 5. BACKSLOPES STEEPER THAN 1:2.5 FROM THE SHOULDER POINT IN A CUT SECTION REQUIRE A DESIGN DEVIATION.
- CAN BE OMITTED WHEN EXISTING GROUND SLOPES AWAY FROM R.O.W. LINE.
- MINIMUM DITCH DEPTH SHALL FOLLOW DRAINAGE DESIGN MANUAL.
 DESIGNER SHALL MEET CRITERIA FOR DESIGN WATER SURFACE ON TABLE
 6.1 AND ADEQUATELY DRAIN SUBBASE.

NOTE TO DESIGNER

THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS

NOT A STANDARD DRAWING, IT REQUIRES COMPLETION BY

THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT.

MICROSTATION FILES AND THE "CADD STANDARDS MANUAL"

ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE

DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE

DESIGN OF THIS SHEET UPON ITS COMPLETION AND

INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER"

BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO

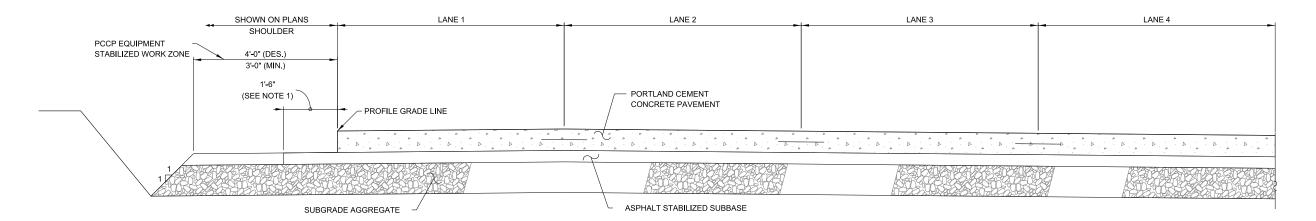
INSERTION OF THE SHEET INTO THE PLAN SET.



ROADWAY TYPICAL SECTIONS - GROUP E

VERSION: BASE SHEET: 2023-03 M-RDY-404

ASE SHEET: SHEET: RDY-404 1 OF 1



PAVEMENT CROSS - SECTION REQUIREMENTS FOR PAVING OPERATIONS

GENERAL NOTES:

- 1. THE 1'-6" WIDE ASPHALT STABILIZED SUBBASE MAY BE REDUCED TO 1'-0" WHEN PAVING EQUIPMENT UTILIZED FOR CONSTRUCTION OF THE PCCP PAVEMENT WILL ALLOW.
- 2. THE STABILIZED WORK ZONE SHOULD ACCOUNT FOR THE PAVER TRACK AND SHOULD BE NOTED IN THE PLANS IF MINIMUMS ARE NOT MET.
- 3. STABILIZED WORK ZONE MAY OR MAY NOT BE CONTINUOUS TO THE ASPHALT STABILIZED BASE. ALTERNATIVES SHOULD BE INVESTIGATED TO DETERMINE THE BEST LOCATION.

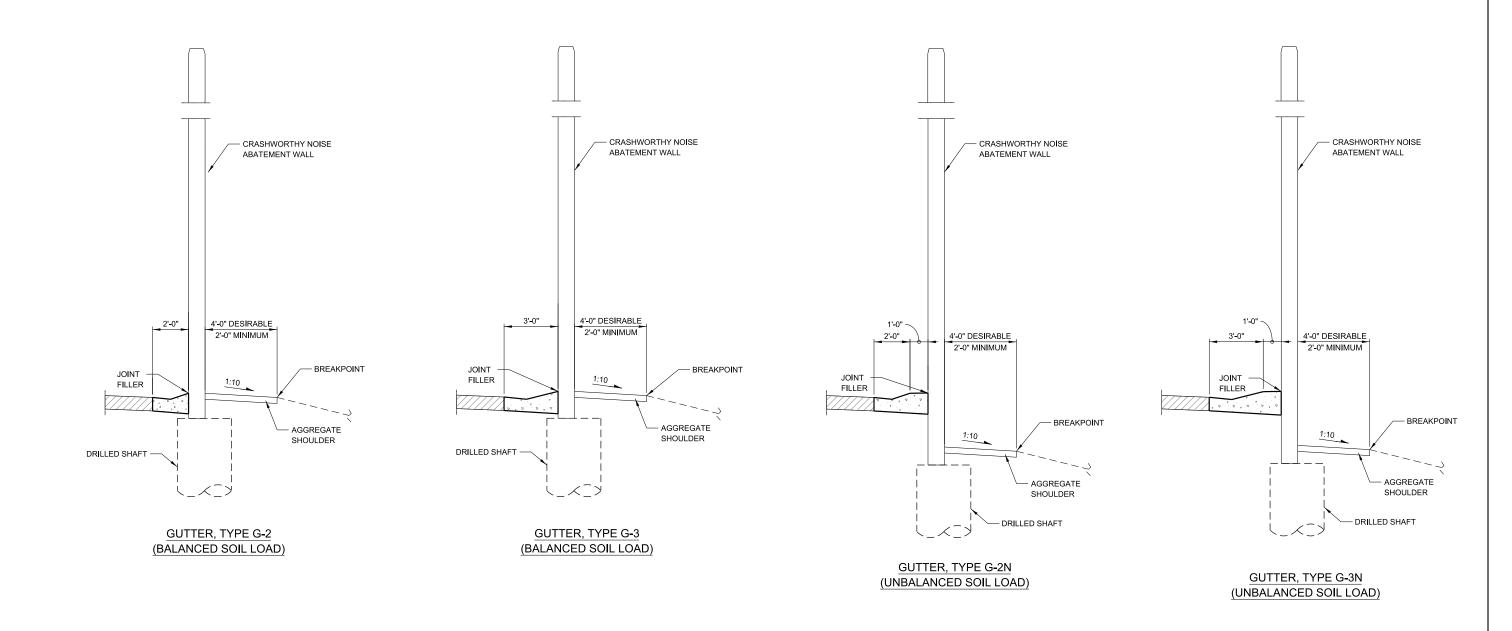




ROADWAY TYPICAL SECTIONS - GROUP F

1 OF 1

VERSION: BASE SHEET: 2020-03 M-RDY-405



CRASHWORTHY GROUND-MOUNTED NOISE ABATEMENT WALL ADJACENT TO PAVED SHOULDER

THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.

NOTE TO DESIGNER

- THE DETAILS SHOWN ABOVE REPRESENT SAMPLE USAGE OF GUTTER. THE SELECTION OF GUTTER TYPE IS DEPENDENT ON THE PRESENCE OF DRAINAGE STRUCTURE(S) AND NOISE ABATEMENT WALL PANEL EMBEDMENT DEPTH. REFER TO 🌙 ROADWAY DESIGN CRITERIA MANUAL, ARTICLE 2.6.6, FOR GUTTER DESIGN REQUIREMENTS.
- FOR GUTTER DETAILS, REFER TO ILLINOIS TOLLWAY STANDARD DRAWING B1.
- FOR DRAINAGE STRUCTURE DETAILS ON THE ROADWAY SIDE, REFER TO ILLINOIS TOLLWAY STANDARD DRAWING B1
- AND ILLINOIS TOLLWAY BASE SHEET M-DRN-607.
 FOR DRAINAGE STRUCTURE DETAILS ON THE RESIDENTIAL SIDE, REFER TO ILLINOIS TOLLWAY BASE SHEET M-DRN-608. FOR NOISE ABATEMENT WALL DETAILS, REFER TO ILLINOIS TOLLWAY STANDARD DRAWING G16 AND ILLINOIS TOLLWAY TRIRIRIRI RILITATIONE



ALL SLOPES ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

NOTE:



ROADWAY TYPICAL SECTIONS - GROUP G

2023-03

M-RDY-406

1 of 1

RTHWORK SCHEDULE C	F QUANTITIES							
				EARTHWORK VOL	LUMES (CUYD)			
	A	В	С	D	E	F (SEE NOTE 3)	G	H (SEE NOTE 3)
LOCATION	EARTH EXCAVATION 20200100	ROCK EXCAVATION 20200200	UNSUITABLE MATERIAL 20201200	STRUCTURE EXCAVATION 50200100	UNSUITABLE MATERIAL FOR STRUCTURES 50200450	SUITABLE EXCAVATION (adjusted for shrinkage %)	EMBANKMENT	EARTHWORK BALANC EXCESS (+) or SHORTAGE (-)
	20200100	20200200	20201200	STAG				
400+00 to 500+00				JIAGI	_ '		I	
500+00 to 600+00								
RAMP A								
RAMP C								
STAGE 1 TOTAL								
				STAGI	= 2			
400+00 to 500+00								
500+00 to 600+00								
RAMP A								
RAMP C								
STAGE 2 TOTAL								
TOTAL				I			I	

EARTHWORK SCHEDULE	OF QUANT	ITIES												
					EN	VIRONMENT	AL CLASSIF	ICATION (CL	JYD)					
	I1	J1	K1	L1	M1	N1	01	P1	Q1	R1	S1	T1	U1	EE1
LOCATION	C: So	OILS APPRO	VED FOR RE	EUSE	B: SOILS	APPROVED	WITH REST	RICTIONS	A: SOII	S NOT APPI	ROVED FOR	REUSE	HAZARDOUS WASTE	UNCLASSIFIED SOIL
	TYPE 1	TYPE 2	TYPE 3	TYPE 4	TYPE 1	TYPE 2	TYPE 3	TYPE 4	TYPE 1	TYPE 2	TYPE 3	TYPE 4	JT669020	
							STAGE 1							
400+00 to 500+00														
500+00 to 600+00														
RAMP A														
RAMP C														
STAGE 1 TOTAL														
							STAGE 2							
400+00 to 500+00														
500+00 to 600+00														
RAMP A														
RAMP C														
STAGE 2 TOTAL														
TOTAL														

SHRINKAGE

1. SS IS THE SOIL SHRINKAGE MULTIPLIER, WHICH IS DETERMINED TO BE XX.

IEPA APPROVED GROUNDWATER ORDINANCE

2. "SOILS APPROVED WITH RESTRICTION" CAN BE REUSED IN THE FOLLOWING MUNICIPALITIES WITH IEPA APPROVED GROUNDWATER ORDINANCES (DSE TO LIST MUNICIPALITIES).

CALCULATIONS

3. SUITABLE EXCAVATION, F, REPRESENTS SUITABLE EXCAVATED MATERIAL VOLUMES ADJUSTED FOR SHRINKAGE AND ONLY INCLUDES EARTHWORK VOLUMES ASSOCIATED WITH EARTH EXCAVATION, A; ROCK EXCAVATION, B; AND STRUCTURE EXCAVATION, D.

 $F=(A+D-(Q1+R1+S1+T1))*SS+B \ WITH \ IEPA \ APPROVED \ GROUNDWATER \ ORDINANCE; \ F=(A+D-(Q1+R1+S1+T1)-(M1+N1+O1+P1))*SS+B \ WITHOUT \ IEPA \ APPROVED \ GROUNDWATER \ ORDINANCE$

W=V-(Q2+R2+S2+T2) WITH IEPA APPROVED GROUNDWATER ORDINANCE; W=V-(Q2+R2+S2+T2)-(M2+N2+O2+P2) WITHOUT IEPA APPROVED GROUNDWATER ORDINANCE

H=F-G

4. INCIDENTAL EXCAVATION IS OUTLINED IN A SEPARATE TABLE WHICH IDENTIFIES ENVIRONMENTAL SOIL CLASSIFICATION AND IS NOT CONSIDERED IN THE CALCULATION FOR SUITABLE EXCAVATION. THIS IS FOR INFORMATION ONLY EXCEPT FOR QUANTITIES OF TYPE 1 SOIL DISPOSAL. PERFORMANCE BASED RETAINING WALLS EXCAVATION IS INCLUDED AS INCIDENTAL TO THE RETAINING WALL AND ASSUMED AS MSE WALLS UNLESS OTHERWISE STATED BY THE DESIGNER. QUANTITIES MAY BE ADJUSTED BASED ON WALL DESIGN.

DISPOSAL

5. "SOILS NOT APPROVED" SHALL NOT BE REUSED ON THE ILLINOIS TOLLWAY ROW AND SHALL BE DISPOSED OF AS NON-SPECIAL WASTE, DISPOSAL TYPE 1 (TYPE 1) OR AS ASSOCIATED WORK PAY ITEM (TYPES 2 THROUGH TYPE 4) OR INCLUDED IN THE COST OF THE ASSOCIATED WORK PAY ITEM.

6. "SOILS APPROVED WITH RESTRICTION" THAT CANNOT BE REUSED WITHIN THE PROJECT MUST BE REMOVED AS EITHER NON-SPECIAL WASTE DISPOSAL, TYPE 1, OR EXCAVATION PAY ITEM (TYPES 2 THROUGH TYPE 4) OR INCLUDED IN THE COST OF THE ASSOCIATED WORK PAY ITEM.

7. WHEN THERE IS EXCESS SOIL APPROVED FOR REUSE OR APPROVED FOR REUSE WITH RESTRICTION, THE CONTRACTOR SHALL FIRST REUSE ENVIRONMENTAL SOILS TYPE 1 TO MINIMIZE THE VOLUME OF MATERIAL DISPOSED AT A NON-SPECIAL WASTE DISPOSAL FACILITY.

8. SOIL QUANTIFIED AS UNCLASSIFIED SOIL SHALL BE MANAGED AS TYPE 1A AND HAS BEEN INCLUDED IN THE QUANTITY FOR TYPE 1A. A
SEPARATE QUANTITY OF ONLY UNCLASSIFIED SOIL IS ALSO PROVIDED. IF THE CONTRACTOR CHOOSES TO TEST THIS MATERIAL, CONTRACT
ALLOWANCE JT154207 WILL BE USED PER TOLLWAY SP FOR "ALLOWANCE FOR TESTING OF UNCLASSIFIED SOIL".

9. WHEN STOCKPILING SOIL, ANY PLACEMENT OF MULTIPLE REUSE OR DISPOSAL TYPES WITHIN THE SAME STOCKPILE SHALL THEREAFTER BE MANAGED AS THE MOST RESTRICTIVE DISPOSAL AND REUSE TYPE INCLUDED IN THE STOCKPILE.

SUBGRADE AGGREGATE

10. SUBGRADE AGGREGATE SHALL BE MANAGED AS TYPE 4C.

GENERAL

1. DSE TO COMPLETE NOTES 1 & 2.

SHRINKAGE FACTOR

- 2. SHRINKAGE FACTOR (SF) SHALL BE DETERMINED BY THE DESIGNER THROUGH GEOTECHNICAL INVESTIGATION. TOPSOIL SHRINKAGE FACTOR IS 0%.
- 3. SS IS THE SHRINKAGE MULTIPLIER FOR SOIL, SS=(1-SF)

CLASSIFICATION

- 4. ENVIRONMENTAL SOIL TYPES COLUMNS IDENTIFICATION
- a. COLUMN U IS HAZARDOUS WASTE
- b. COLUMNS I THROUGH L TYPE 1 THROUGH TYPE 4 APPROVED
- c. COLUMNS M THROUGH P TYPE 1 THROUGH TYPE 4 APPROVED WITH RESTRICTIONS
- d. COLUMNS Q THROUGH T TYPE 1 THROUGH TYPE 4 NOT APPROVED
- e. COLUMN EE IS UNCLASSIFIED SOIL

FOR COLUMN IDENTIFICATION FOR ENVIRONMENTAL TYPES USE SUFFIX 1 FOR EARTHWORK SCHEDULE TABLE (11 THROUGH | U1), SUFFIX 2 FOR TOPSOIL TABLE (12 THROUGH U2), SUFFIX 3 FOR INCIDENTAL TABLE (13 THROUGH U3) AND SO ON.

5. FOR SOILS "NOT APPROVED" TYPE 2, TYPE 3, TYPE 4 AND "APPROVED WITH RESTRICTION" TYPE 2, TYPE 3, AND TYPE 4 THAT ARE IDENTIFIED ON YOUR CONTRACT, THEY SHOULD REMAIN IN THE SCHEDULE PROVIDED. THESE SOIL COLUMNS CAN BE OMITTED IF NOT IDENTIFIED ON THE PROJECT.

6. KEEP ALL EARTHWORK VOLUME COLUMNS (A THROUGH H) ON BASE SHEET FOR CONTRACT PLANS. REMOVE ENVIRONMENTAL CLASSIFICATION COLUMNS ON BASE SHEET IF THERE IS NONE PRESENT OF THAT TYPE ON THE CONTRACT.

7. UNCLASSIFIED SOIL WILL BE QUANTIFIED WITH THE TYPE 1A SOIL. HOWEVER, A SEPARATE QUANTITY OF UNCLASSIFIED SOIL IS ALSO SHOWN IN COLUMN EE. IF THE CONTRACTOR CHOOSES TO TEST THIS MATERIAL, CONTRACT ALLOWANCE JT154207 WILL BE USED PER TOLLWAY SP FOR "ALLOWANCE FOR TESTING UNCLASSIFIED SOIL".

CALCULATIONS

8. PLEASE NOTE THAT THE CALCULATIONS GUIDANCE PROVIDED IN THIS SECTION AND THE NON SPECIAL WASTE TABLES MAY NEED TO BE MODIFIED BASED ON VARIOUS TYPES OF EXCAVATION THAT MAY BE ENCOUNTERED ON YOUR CONTRACT (SUCH AS EXCAVATION OF EXISTING RETAINING WALLS, BENCHING, BALLAST, SUBBALLAST......).

9. I1 THROUGH T1 SHOULD EQUAL TO A+C+D+E; COLUMNS I2 THROUGH T2 SHOULD EQUAL TO V; COLUMNS I3 THROUGH T3 SHOULD EQUAL TO Z+AA+BB+CC; AND COLUMNS I4 THROUGH T4 SHOULD EQUAL TO DD.

10. WITHIN EARTHWORK SCHEDULE OF QUANTITY, ALL SOILS NOT APPROVED SHALL BE SUBTRACTED FROM THE CALCULATION OF SUITABLE EXCAVATION (F). WITHIN THE TOPSOIL SCHEDULE OF QUANTITY ALL SOILS NOT APPROVED SHALL BE SUBTRACTED FROM TOPSOIL STRIPPING (V).

11. MATERIAL APPROVED WITH RESTRICTIONS CAN ONLY BE USED IN MUNICIPALITIES WITH IEPA APPROVED GROUNDWATER ORDINANCE. IN MUNICIPALITIES WITHOUT IEPA APPROVED GROUNDWATER ORDINANCE, WITHIN EARTHWORK SCHEDULE OF QUANTITIES, ALL SOILS APPROVED WITH RESTRICTIONS SHALL BE SUBTRACTED FROM THE CALCULATION OF SUITABLE EXCAVATION (F). IN MUNICIPALITIES WITHOUT IEPA APPROVED GROUNDWATER ORDINANCE, WITHIN THE TOPSOIL SCHEDULE OF QUANTITY ALL SOILS APPROVED WITH RESTRICTIONS SHALL BE SUBTRACTED FROM THE TOPSOIL STRIPPING (V).

12. F=(A+D-(Q1+R1+S1+T1))*SS+B WITH IEPA APPROVED GROUNDWATER ORDINANCE;

F=(A+D-(Q1+R1+S1+T1)-(M1+N1+O1+P1))*SS + B WITHOUT IEPA APPROVED GROUNDWATER ORDINANCE

W=V-(Q2+R2+S2+T2) WITH IEPA APPROVED GROUNDWATER ORDINANCE; W=V-(Q2+R2+S2+T2)-(M2+N2+O2+P2) WITHOUT IEPA APPROVED GROUNDWATER ORDINANCE

13. NON-SPECIAL WASTE DISPOSAL, TYPE 1 CALCULATION MAY BE MODIFIED TO INCLUDE TYPE 1 SOIL APPROVED FOR REUSE DEPENDING ON CONTRACT STAGING. SEE NSW CALCULATIONS IN TABULAR FORM.

DISPOSAL

NOTES TO DESIGNER

14. SOILS CLASSIFIED AS TYPE 1 THAT ARE NOT REUSED WITHIN THE PROJECT ARE DISPOSED OF AND PAID FOR AS NON-SPECIAL WASTE, TYPE 1. SOILS CLASSIFIED AS TYPE 2 THROUGH TYPE 4 THAT ARE NOT REUSED WITHIN THE PROJECT ARE DISPOSED OF AND PAID FOR AS EARTH EXCAVATION, UNSUITABLE MATERIAL, STRUCTURE EXCAVATION OR INCLUDED IN THE ASSOCIATED WORK ITEM.

15. ANY UNSUITABLE (GEOTECHNICALLY) TYPE 1 MATERIAL IS DISPOSED OF AS NON-SPECIAL WASTE, TYPE 1.

PAY ITEMS

16. KEEP ALL THE COLUMNS AND ROWS WITH PAY ITEMS. REPLACE ANY PAY ITEM NUMBERS SHOWN IN TABLES "NOT USED" IF THE PAY ITEM IS NOT INCLUDED IN THE CONTRACT. THE LOCATION WHERE THIS INSTANCE COULD OCCUR IS 1) COLUMN TITLES AND 2) BILL OF MATERIAL SUMMARY TABLE ROWS (I.E. ROCK EXCAVATION).

17. IF YOUR CONTRACT HAS MATERIAL SHOWN ON THE EARTHWORK SCHEDULE OF INCIDENTAL QUANTITIES TO BE USED FOR EMBANKMENT, THE VOLUME OF MATERIAL USED SHALL BE PAID AS FURNISHED EXCAVATION (20400800) OR FURNISHED EXCAVATION SPECIAL (J.1204005) THIS SHOULD BE PAULITATED ON A PROJECT SPECIE

18. KEEP ALL TABLES (EARTHWORK, TOPSOIL, INCIDENTAL, AND RETAINING WALL) UNLESS THERE IS NO EXCAVATION OR PLACEMENT OF THAT TYPE ON THE CONTRACT.

NOTE TO DESIGNER

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EARTHWORK SCHEDULE

version: BASE SHEET: 0205-03 M-RDY-407

SHEET: SHEET: Y-407 1 OF 4

										E	INVIRONMENT	AL CLASSIFICA	TION (CUTD)					
	V	W (SEE NOTE 3, SHEET 1)	х	Y	12	J2	K2	L2	M2	N2	O2	P2	Q2	R2	S2	T2	U2	EE2
	TOPSOIL TRIPPING	SUITABLE TOPSOIL	TOPSOIL PLACEMENT	TOPSOIL BALANCE Excess (+) or	С	: SOILS APPRO	VED FOR REUS	SE	B: SOI	LS APPROVED	WITH RESTRIC	CTIONS	A: S	DILS NOT APPE	ROVED FOR RE	EUSE	HAZARDOUS WASTE	UNCLASSIFIED SOIL
				Shortage (-)	TYPE 1	TYPE 2	TYPE 3	TYPE 4	TYPE 1	TYPE 2	TYPE 3	TYPE 4	TYPE 1	TYPE 2	TYPE 3	TYPE 4	JT669020	
	,							STAGE 1										
100+00 to 500+00																		
500+00 to 600+00																		
RAMP A																		
RAMP C																		
STAGE 1 TOTAL																		<u> </u>
								STAGE 2										
100+00 to 500+00																		
500+00 to 600+00																		
RAMP A		<u> </u>																
RAMP C		·																
STAGE 2 TOTAL																		

	FARTHWORK	VOLUMES (CUY	D)							FN	VIRONMENTA	AL CLASSIFIC	ATION (CUYE))				
	z	AA	ВВ	СС	13	J3	КЗ	L3	МЗ	N3	03	P3	Q3	R3	S3	Т3	U3	EE3
LOCATION	STORM SEWER	ITS	INCIDENTAL EXCAVATION	INCIDENTAL EXCAVATION -	C: 8	SOILS APPRO	VED FOR RE	USE	B: SOILS	APPROVED	WITH RESTR	RICTIONS	A: SOI	LS NOT APPF	ROVED FOR	REUSE	HAZARDOUS WASTE	UNCLASSIFIED SO
	TRENCH	EXCAVATION		(FILL IN TYPE)	TYPE 1	TYPE 2*	TYPE 3*	TYPE 4*	TYPE 1	TYPE 2*	TYPE 3*	TYPE 4*	TYPE 1	TYPE 2*	TYPE 3*	TYPE 4*	JT669020	
							1	STAG	E 1		ı				ı	l.		
400+00 to 500+00																		
500+00 to 600+00																		
RAMP A																		
RAMP C																		
STAGE 1 TOTAL																		
								STAG	E 2									
400+00 to 500+00																		
500+00 to 600+00																		
RAMP A																		
RAMP C																		
STAGE 2 TOTAL																		
TOTAL																		

*THIS EXCAVATION AND DISPOSAL IS NOT PAID FOR SEPARATELY BUT INCLUDED IN THE COST OF THE ASSOCIATED WORK ITEM.

EARTHWORK VOLU	MES (CUYD)						E	NVIRONMENTA	L CLASSIFICA	TION (CUYD)					
	DD	14	J4	K4	L4	M4	N4	04	P4	Q4	R4	S4	T4	U4	EE4
LOCATION	RETAINING WALL	C:	SOILS APPRO	VED FOR REUS	SE	B: SOI	LS APPROVED	WITH RESTRIC	CTIONS	A: S	OILS NOT APPI	ROVED FOR R	EUSE	HAZARDOUS WASTE	UNCLASSIFIED SOI
	EXCAVATION*	TYPE 1**	TYPE 2	TYPE 3	TYPE 4	TYPE 1**	TYPE 2	TYPE 3	TYPE 4	TYPE 1**	TYPE 2	TYPE 3	TYPE 4	JT669020	
							STAGE	1							
400+00 to 500+00															
500+00 to 600+00															
RAMP A															
RAMP C															
STAGE 1 TOTAL															
							STAGE	2							
400+00 to 500+00															
500+00 to 600+00															
RAMP A															
RAMP C															
STAGE 2 TOTAL															
TOTAL															

*EXCAVATION FOR PERFORMANCE BASED RETAINING WALL IS NOT PAID FOR SEPARATELY BUT INCLUDED IN THE COST OF THE WALL. (SEE STRUCTURAL EX FOR OTHER WALLS UNLESS OTHERWISE SPECIFIED)

**SOIL FOR PERFORMANCE BASED RETAINING WALLS THAT CANNOT BE REUSED AND CLASSIFIED AS TYPE 1 SHALL BE PAID AS NON-SPECIAL WASTE DISPOSAL, TYPE 1.

BILL OF MATERIAL	SUMMARY TABLE								
PAY ITEM NO.	DESIGNATION	STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5	TOTAL	UNITS	NOTES
20200100	EARTH EXCAVATION							CUYD	COLUMN A TOTAL, SEE SHEET 1
20200200	ROCK EXCAVATION							CUYD	COLUMN B TOTAL, SEE SHEET 1
20400800	FURNISHED EXCAVATION							CUYD	WHEN H<0 THEN H, ELSE 0
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL							CUYD	COLUMN C TOTAL, SEE SHEET 1
50200100	STRUCTURE EXCAVATION							CUYD	COLUMN D TOTAL, SEE SHEET 1
JI211110	TOPSOIL EXCAVATION AND PLACEMENT							CUYD	WHEN X <w, or="" then="" when="" x="">W, THEN W</w,>
JI211112	TOPSOIL EXCAVATION AND DISPOSAL							CUYD	W-X
JI211126	TOPSOIL FURNISH AND PLACE, 6"							SQYD	WHEN X>W, THEN (X-W)/THICKNESS IN YARDS
JT202009	NON-SPECIAL WASTE DISPOSAL, TYPE 1							CUYD	COLUMN 11 TOTAL, SEE NSW DISPOSAL, TYPE 1 SHEET
JT669020	HAZARDOUS WASTE DISPOSAL							CUYD	U1+U2+U3+U4
*	UNCLASSIFIED SOIL							CUYD	EE1+EE2+EE3+EE4

* QUANTITY IS PROVIDED FOR REFERENCE ONLY. IF THE CONTRACTOR CHOOSES TO TEST THIS MATERIAL, A CONTRACT ALLOWANCE JT154207 WILL BE USED PER TOLLWAY SP FOR "ALLOWANCE FOR TESTING OF UNCLASSIFIED SOIL".

Illinois Tollway

EARTHWORK SCHEDULE

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					NON SPECIAL WAS	STE (NSW) DISPOSAL, TYPE 1					
		EARTHWORK + INCI	IDENTAL (STEP 1)			TOPSOIL	(STEP 2)			STEP 3 (STEP 1 + STEP 2)	
LOCATION	WITH IEPA GROUNDWATE		WITHOUT IEP/ GROUNDWATE		WITH IEPA GROUNDWATE	APPROVED ER ORDINANCE	WITHOUT IEPA APPROVED GROUNDWATER ORDINANCE		WITH IEPA APPROVED GROUNDWATER ORDINACE	WITHOUT IEPA APPROVED GROUNDWATER ORDINANCE	TOTAL NSW DISPOSAL, TYPE 1 (JT202009)
	1	2	3	4	5	6	7 8		9	10	11
						STAGE 1					
400+00 to 500+00											
500+00 to 600+00											
RAMP A											
RAMP C											
STAGE 1 TOTAL											
<u> </u>						STAGE 2					
400+00 to 500+00											
500+00 to 600+00											
RAMP A											
RAMP C											
STAGE 2 TOTAL											
TOTAL											

THESE NOTES TO DESIGNER AS SHOWN BELOW ARE TO CLARIFY THE CALCULATIONS OF JT202009 NON-SPECIAL WASTE DISPOSAL, TYPE 1.

EVALUATE IEPA APPROVED GROUNDWATER ORDINANCE IN THE MUNICIPALITIES WITHIN THE PROJECT LIMITS. UTILIZE THE EQUATIONS BELOW BASED ON THE IEPA APPROVED GROUNDWATER ORDINANCE AS APPLICABLE. ADD RETAINING WALL QUANTITIES WHEN APPLICABLE TO THE FOLLOWING EQUATIONS.

STEP 1 - EARTHWORK AND INCIDENTAL NON-SPECIAL WASTE DISPOSAL, TYPE 1 CALCULATIONS

WITH IEPA APPROVED GROUNDWATER ORDINANCE IF THE SUM OF TYPE 1 APPROVED (I1) AND APPROVED WITH RESTRICTION (M1) ADJUSTED FOR SHRINKAGE IS:

GREATER THAN EMBANKEMENT (G) QUANTITY, THEN

NON SPECIAL WASTE DISPOSAL, TYPE 1 = [{(I1+M1)*SS-G)}/SS] + Q1+I3+Q3+M3 (COLUMN 1)

LESS THAN EMBANKMENT (G) QUANTITY, THEN

NON SPECIAL WASTE DISPOSAL, Type 1 = Q1+I3+Q3+M3 (COLUMN 2)

WITHOUT IEPA APPROVED GROUNDWATER ORDINANCE

IF TYPE 1 APPROVED (I1) ADJUSTED FOR SHRINKAGE IS:

GREATER THAN EMBANKMENT (G) QUANTITY, THEN NON SPECIAL WASTE DISPOSAL, Type 1 = [{(I1)*SS-G)}/SS] + Q1+M1+I3+Q3+M3 (COLUMN 3)

LESS THAN EMBANKMENT (G) QUANTITY, THEN

NON SPECIAL WASTE DISPOSAL, Type 1 = Q1+M1+ I3+Q3+M3 (COLUMN 4)

STEP 2 – TOPSOIL NON-SPECIAL WASTE DISPOSAL, TYPE 1 CALCULATIONS

WITH IEPA APPROVED GROUNDWATER ORDINANCE
IF THE SUM OF TYPE 1 APPROVED (I2) AND APPROVED WITH RESTRICTION (M2) IS:

GREATER THAN TOPSOIL PLACEMENT (X) QUANTITY, THEN

NON SPECIAL WASTE DISPOSAL, TYPE 1 = (I2+M2)-X) + Q2 (COLUMN 5)

LESS THAN TOPSOIL PLACEMENT (X) QUANTITY, THEN

NON SPECIAL WASTE DISPOSAL, TYPE 1 = Q2 (COLUMN 6)

WITHOUT IEPA APPROVED GROUNDWATER ORDINANCE

GREATER THAN TOPSOIL PLACEMENT (X) QUANTITY, THEN

NON SPECIAL WASTE DISPOSAL, TYPE 1 = (I2)-X + Q2+M2 (CCLUMN 7)

LESS THAN TOPSOIL PLACEMENT (X) QUANTITY, THEN

NON SPECIAL WASTE DISPOSAL, TYPE 1 = Q2+M2 (COLUMN 8)

STEP 3 - SUM OF ALL NON-SPECIAL WASTE DISPOSAL, TYPE 1 QUANTITIES

WITH IEPA APPROVED GROUNDWATER ORDINANCE

NON-SPECIAL WASTE DISPOSAL, TYPE 1 = EARTHWORK AND INCIDENTAL WITH IEPA APPROVED GROUNDWATER ORDINANCE + TOPSOIL WITH IEPA APPROVED GROUNDWATER ORDINANCE (COLUMN 9)

WITHOUT IEPA APPROVED GROUNDWATER ORDINANCE

NON-SPECIAL WASTE DISPOSAL, TYPE 1 = EARTHWORK AND INCIDENTAL WITHOUT IEPA APPROVED GROUNDWATER ORDINANCE + TOPSOIL WITHOUT IEPA APPROVED GROUNDWATER ORDINANCE

TOTAL NSW DISPOSAL, TYPE 1 = NON-SPECIAL WASTE DISPOSAL, TYPE 1 = COLUMN 9 + COLUMN 10



EARTHWORK SCHEDULE

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							GL	IARDRAIL SCH	EDULE							
			APPI	ROACH TERM	INAL			GUARDR	AIL TYPE			DEPA	ARTURE TERM	IINAL	REFLECTORS	MARKERS
STATION FROM	STATION TO	OFFSET	TRAFFIC BARRIER TERMINAL TYPE T1 (SPECIAL) TANGENT	TRAFFIC BARRIER TERMINAL TYPE T1-A (SPECIAL)	TRAFFIC BARRIER TERMINAL TYPE T10	STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FOOT POSTS	STEEL PLATE BEAM GUARDRAIL TYPE A, 9 FOOT POSTS	STEEL PLATE BEAM GUARDRAIL TYPE B, 6 FOOT POSTS	GALVANIZED STEEL PLATE BEAM GUARDRAIL TYPE B, 9 FOOT POSTS	STEEL PLATE BEAM GUARDRAIL TYPE C, 6 FOOT POSTS	STEEL PLATE BEAM GUARDRAIL TYPE C, 9 FOOT POSTS	TRAFFIC BARRIER TERMINAL TYPE T2	TRAFFIC BARRIER TERMINAL TYPE T6	TRAFFIC BARRIER TERMINAL TYPE T6B	GUARDRAIL BARRIER REFLECTORS, TYPE B	TERMINAL MARKER - DIRECT APPLIED
			JI631110 EACH	JI631112 EACH	JS631140 EACH	JS630002 FOOT	JS630004 FOOT	JS630007 FOOT	JS630009 FOOT	JS630012 FOOT	JS630014 FOOT	JS631120 EACH	JS631130 EACH	JS631135 EACH	JS782014 EACH	JS725000 EACH
1000+00.00	1002+00.00	RT	1 EACH	EACH	EACH	200.0	F001	FOOT	F001	F001	F001	1	EACH	EACH	EACH	EACH
	1002+37.50	RT	1			300.0		12.5		25.0		'	1			
1010+00.00		RT		1			150.0						1			
1012+00.00	1017+00.00	RT			1	350.0		62.5		87.5			1			
1020+00.00	1022+87.50	RT		1			187.5		75.0		25.0			1		
						 										
						0.50				110.5						
	TOTAL		2	2	1	850	337.5	75	75	112.5	25	1	3	1	0	0

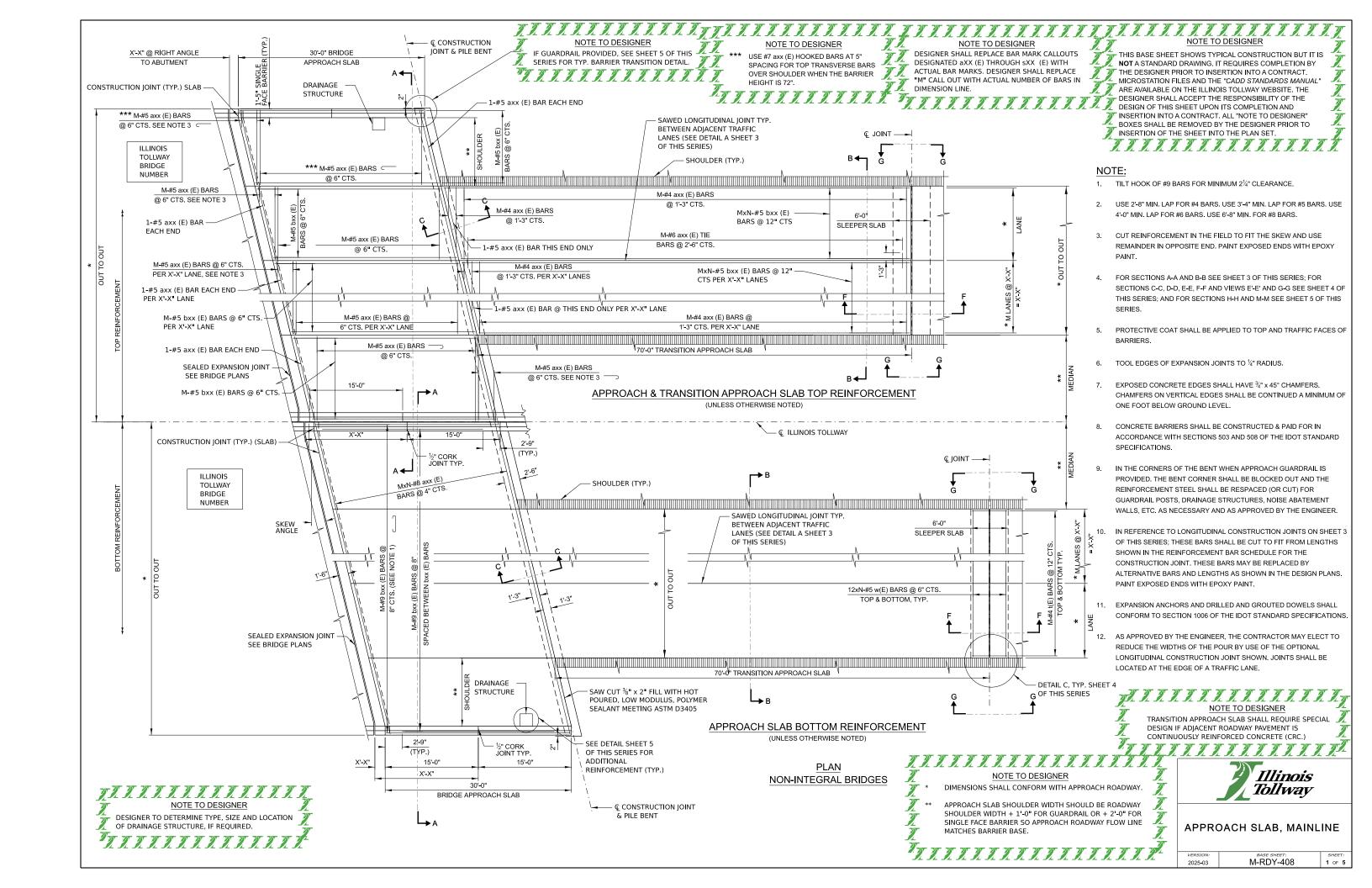
NOTES TO DESIGNER

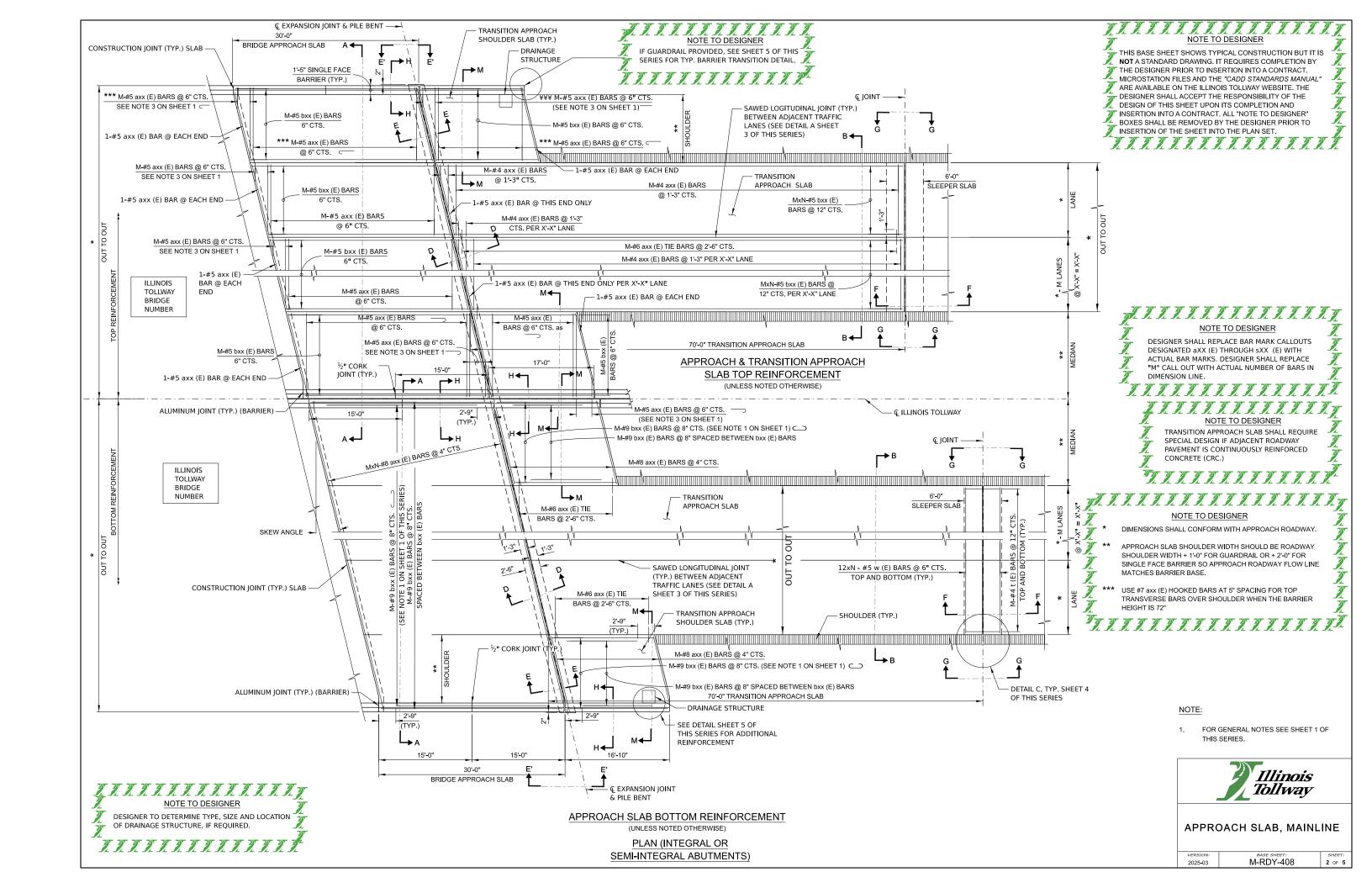
NO DRAINAGE STRUCTURES SHALL BE INSTALLED WITHIN THE
GUARDRAIL TERMINAL LIMITS. THIS INCLUDES CATCH BASINS, SLOPE
DRAIN INLETS, CONCRETE FLUMES AND CURB/GUTTER OUTLETS.

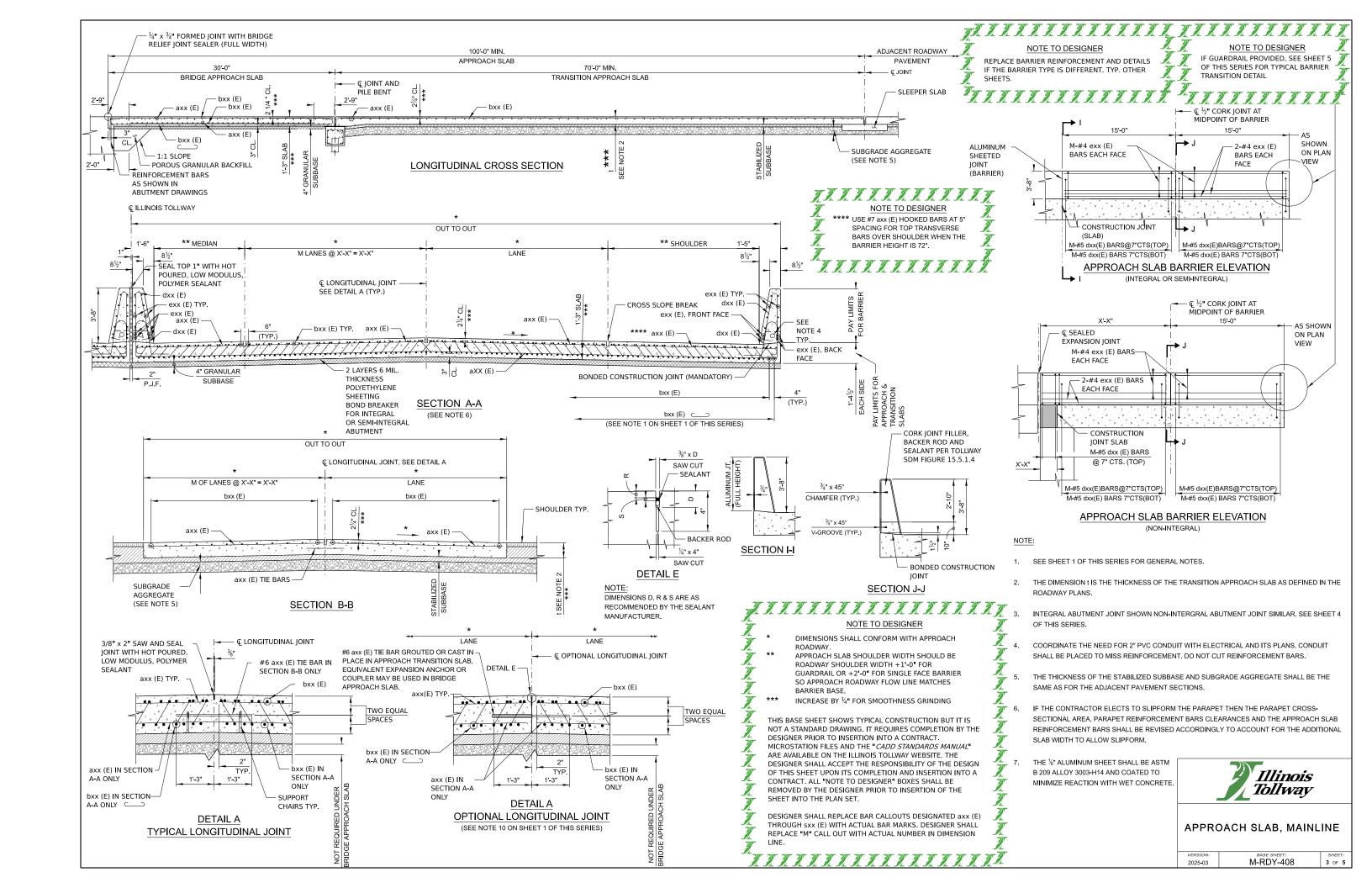


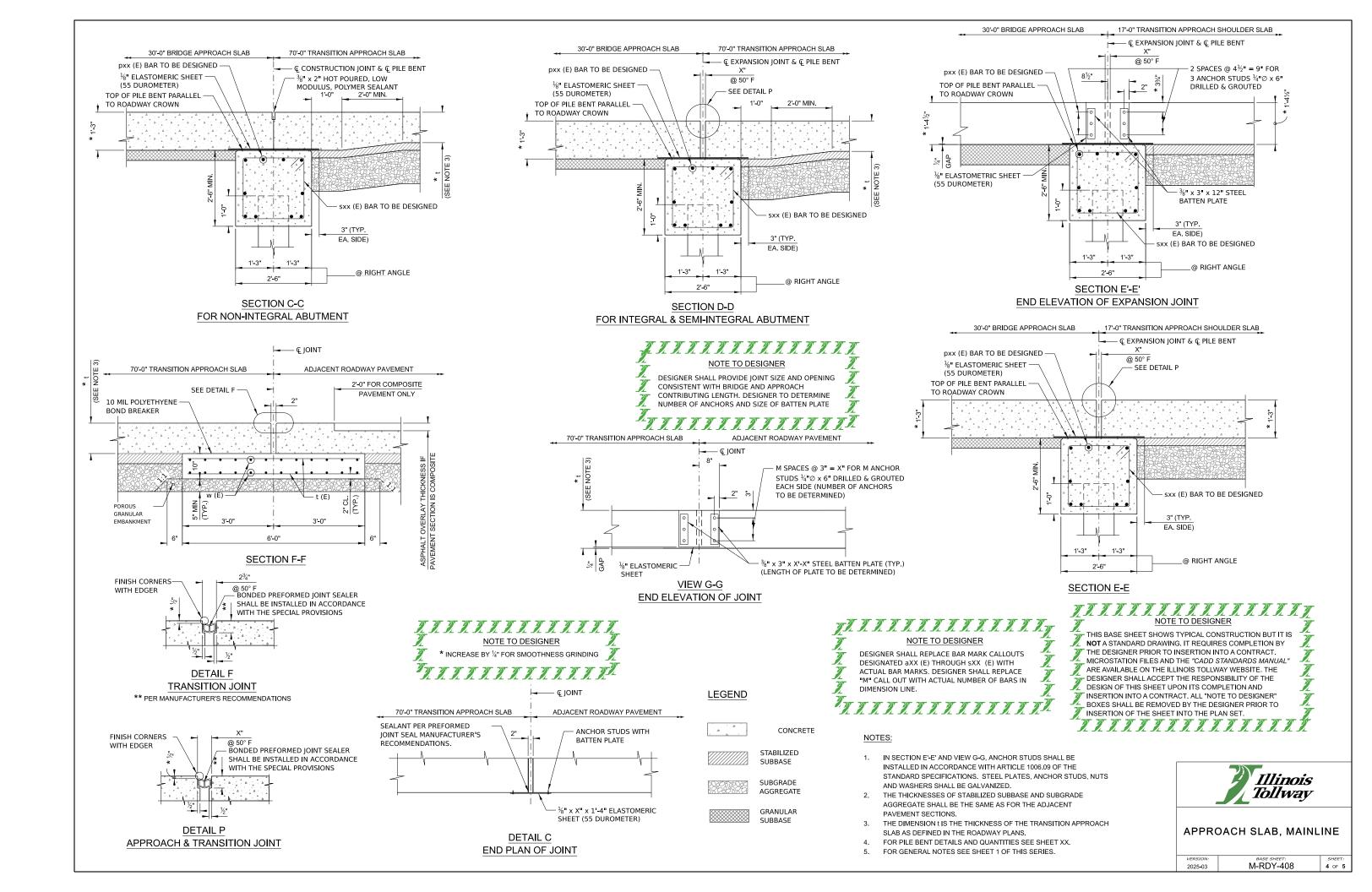
GUARDRAIL SCHEDULE

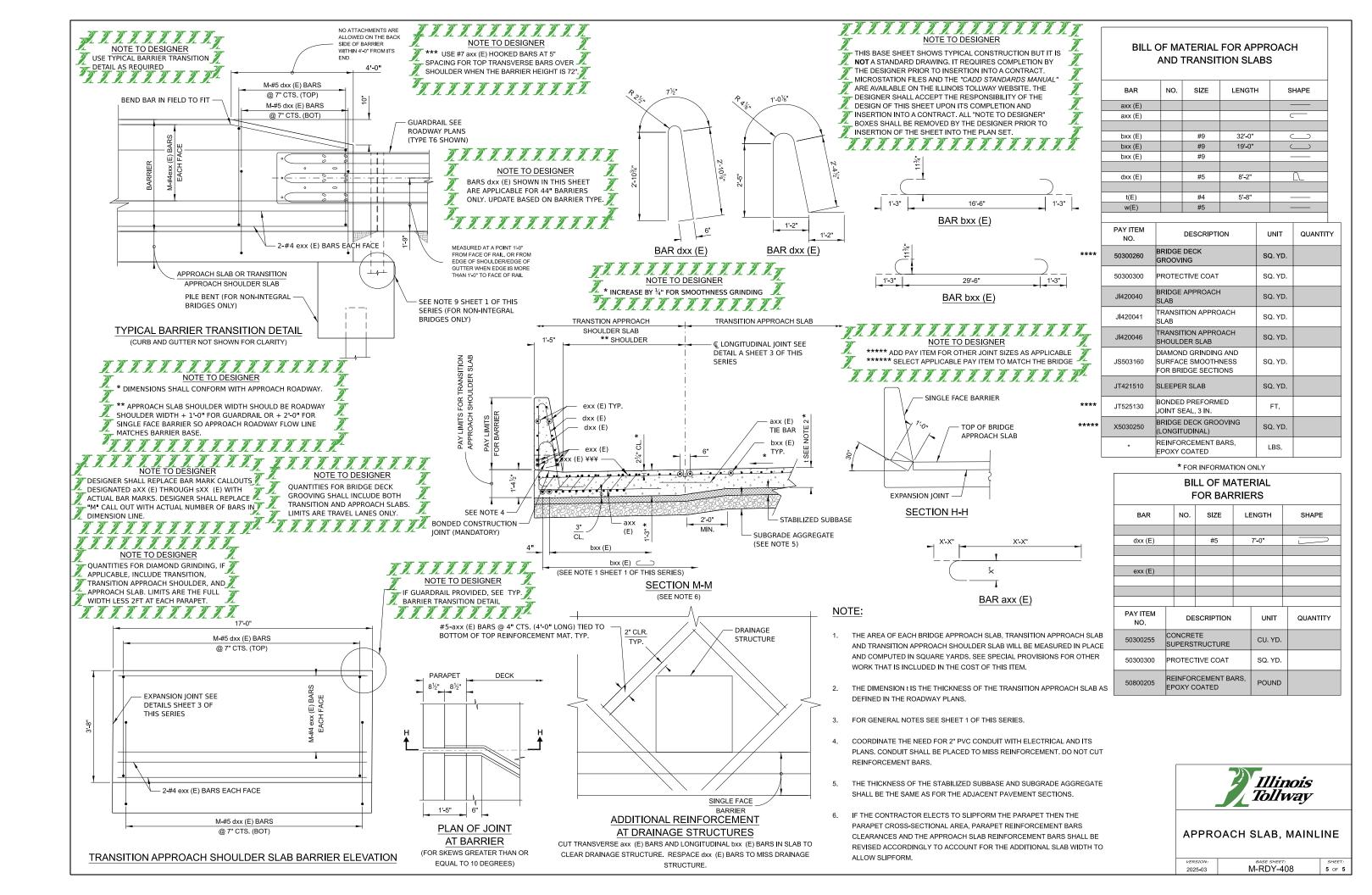
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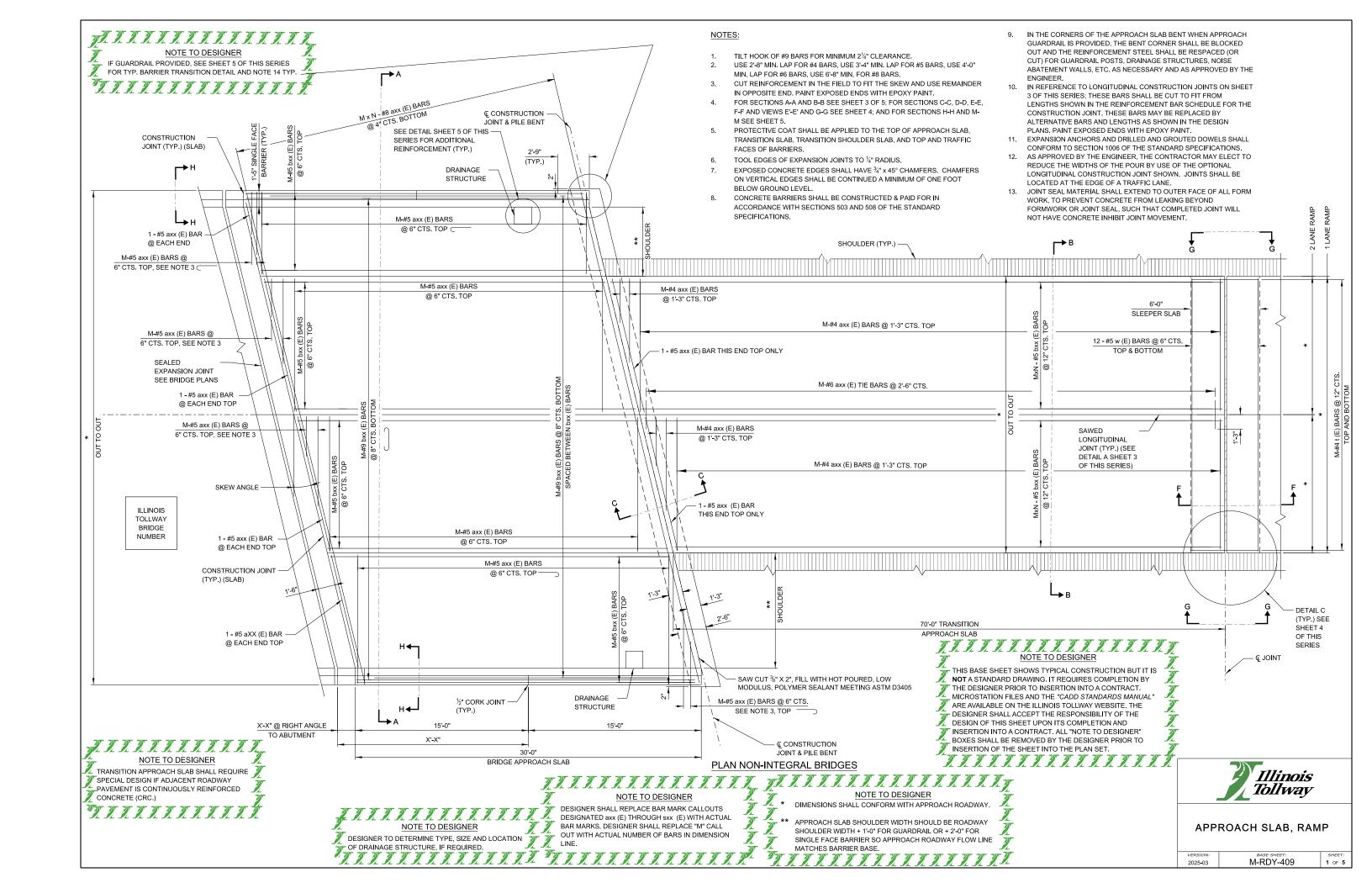


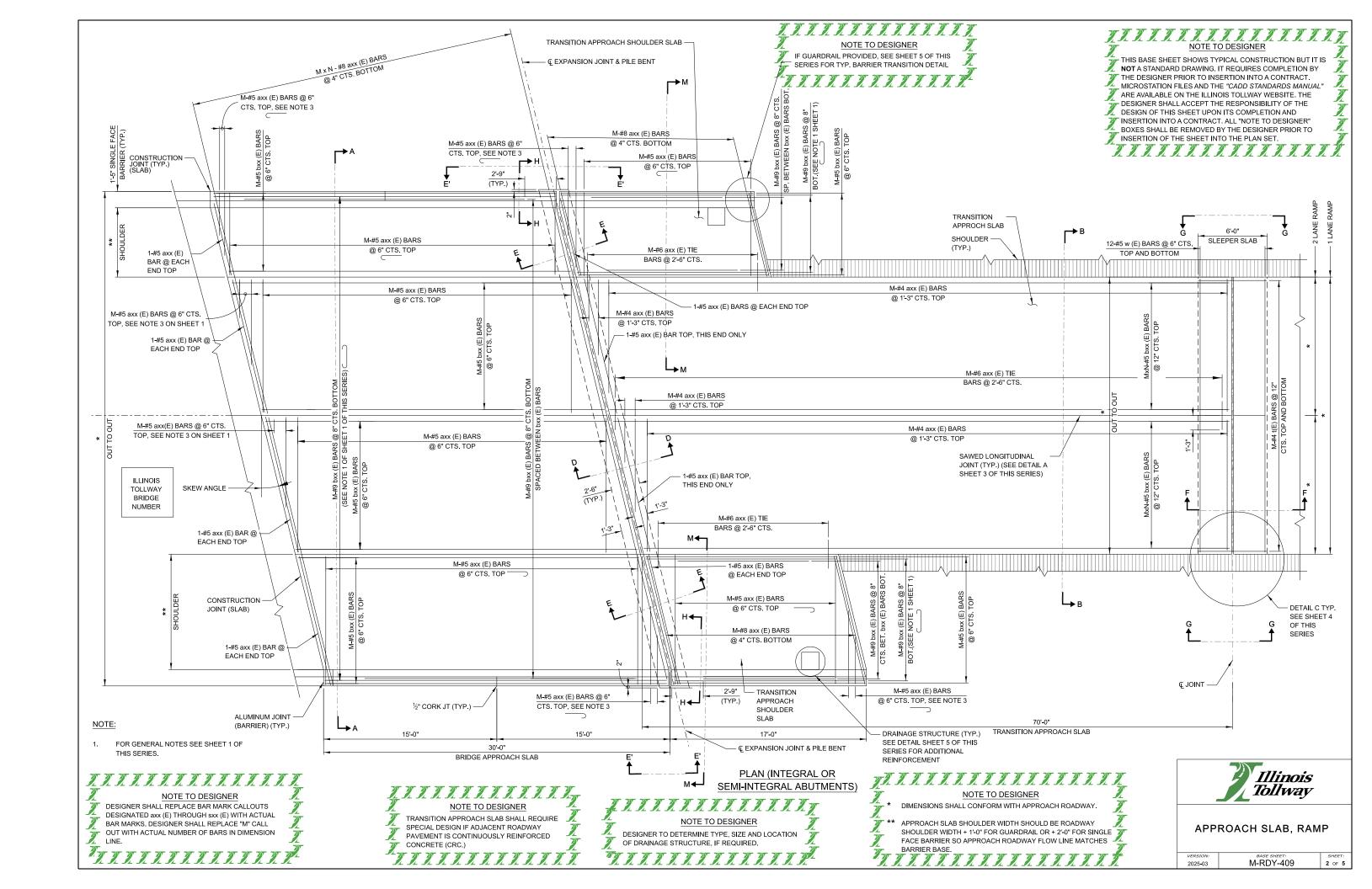


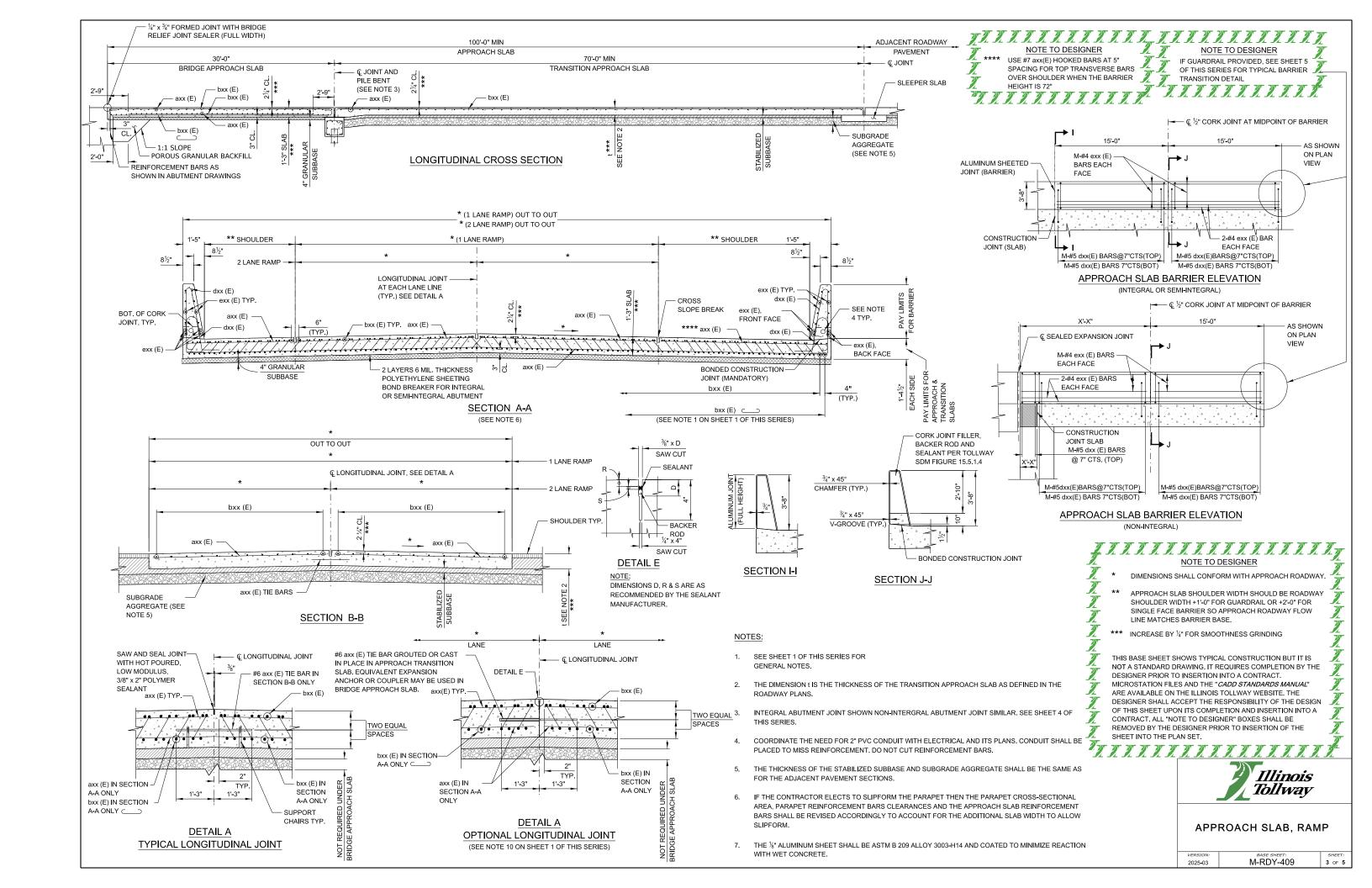


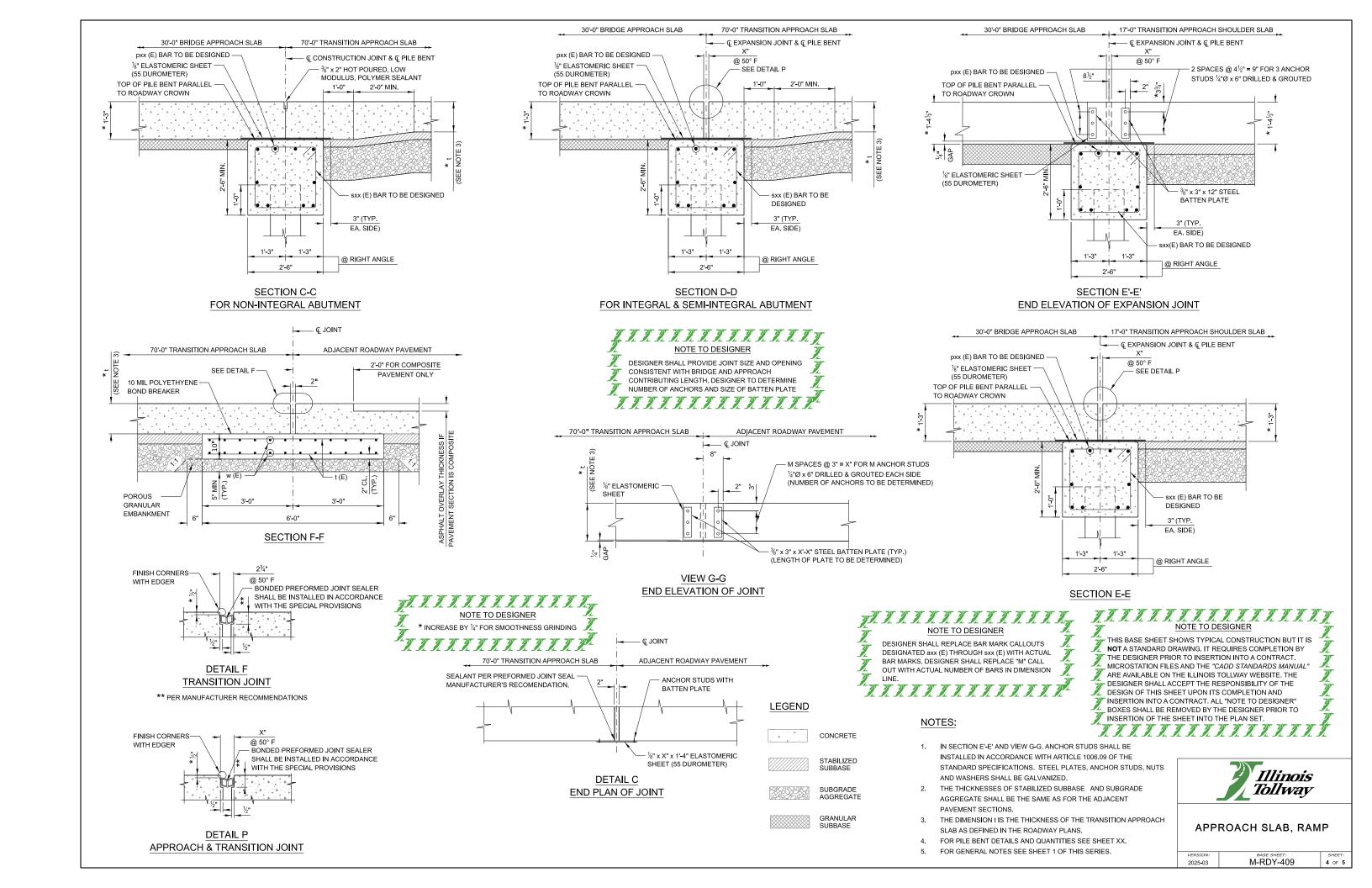


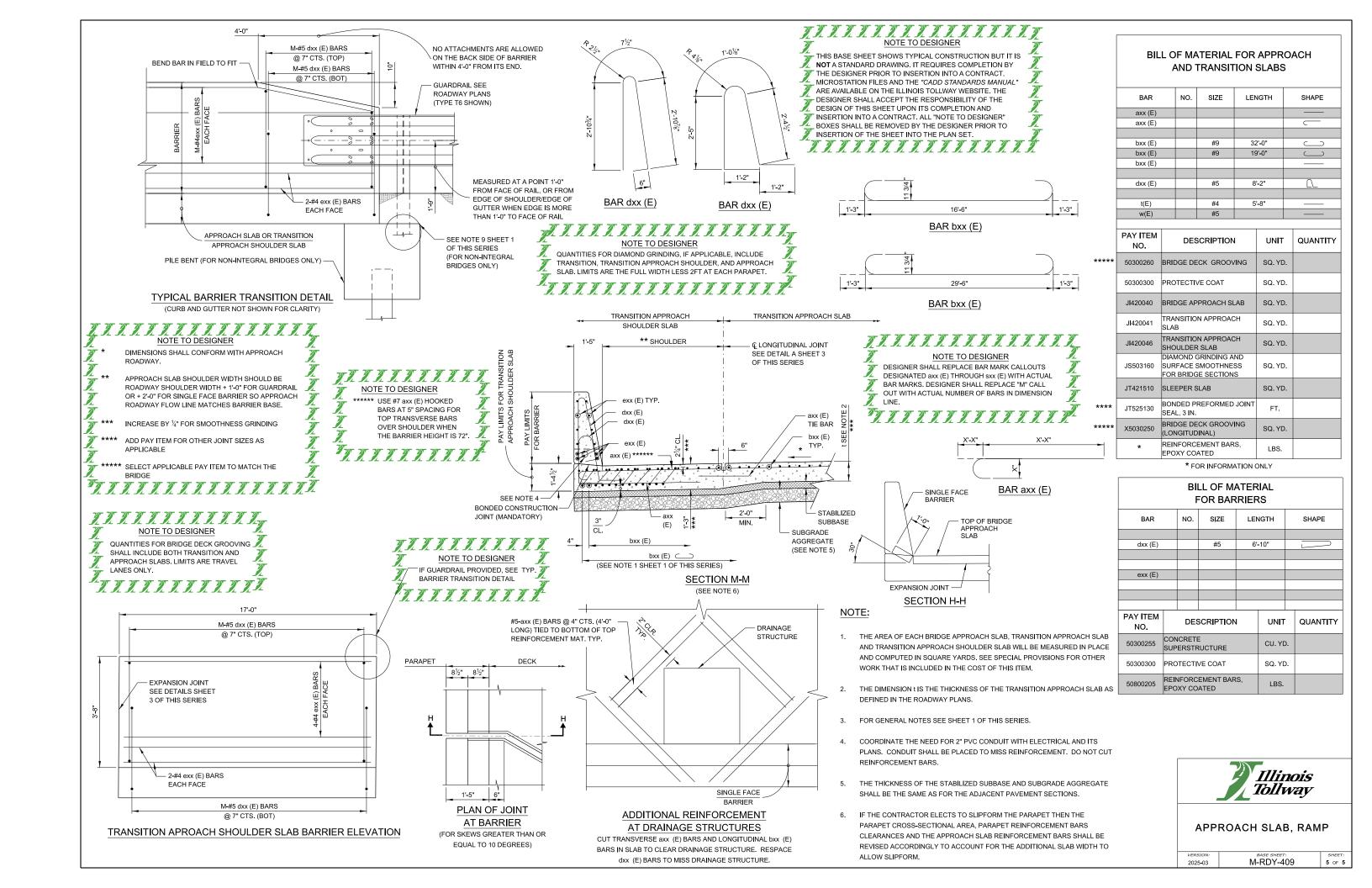


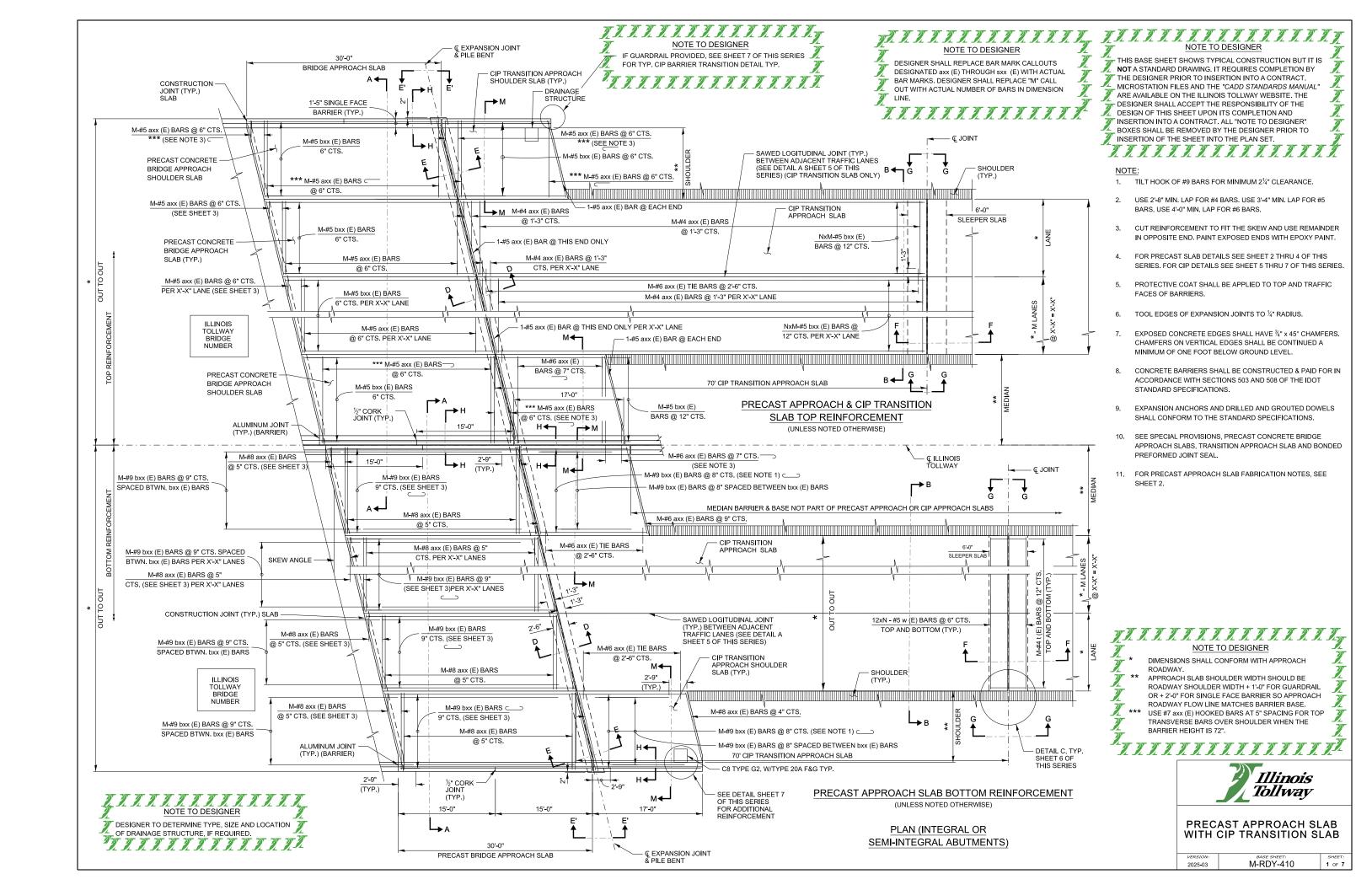




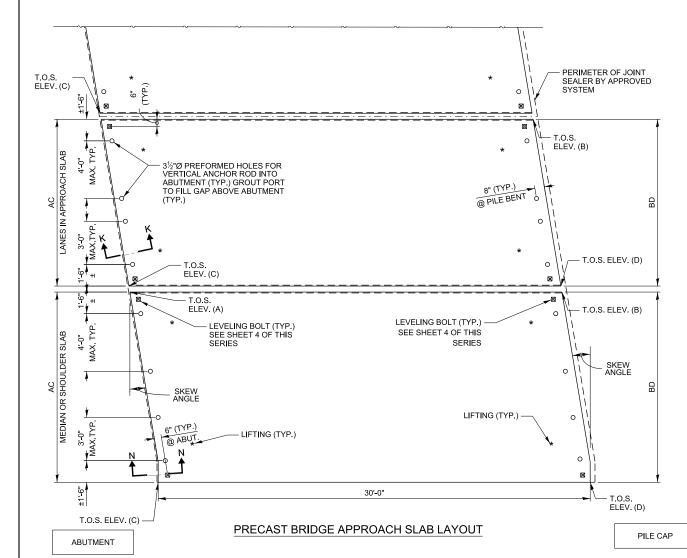








					PRECA	AST SLAB	DATA						
	VARI	ABLES				T.O.S.	T.O.S.	T.O.S.	T.O.S.				
LANE TYPE	SKEW ANGLE (DEG)	M (NO.)	N (NO.)	AC (FT.)	BD (FT.)	ELEV.	ELEV. B	ELEV. C	ELEV. D	AREA (S.F.)	(C.F.)	(TONS)	NO.
MEDIAN													
LANE													
LANE													
SHOULDER									-				



TININI ANN ANTANTANTAN FILL IN TABLE FOR SLABS IN PRECAST APPROACH SLAB. IF DIMENSION IS NOT REQUIRED ENTER "N/A" RADII. NOTE TO DESIGNER PRECAST PANEL WIDTH SHALL SATISFY THE FOLLOWING: PANELS FOR LANES SHALL BE FULL WIDTH. ADDITIONAL LONGITUDINAL CONSTRUCTION JOINT SHALL NOT BE IN THE WHEEL PATH FOR THE FLEX LANE OR SHOULDER, MINIMUM PANEL WIDTH SHALL BE 6 FEET IN THE SHOULDER AREA PANEL CLOSEST TO THE BARRIER SHALL BE THE LARGER PANEL. DESIGNER SHALL VERIFY MAXIMUM PRECAST PANEL WIDTH FOR TRANSPORTATION AND AN ADDITIONAL JOINT SHALL BE SHOWN ON PLANS FOR THE SHOULDER AREA MEETING

THE DESIGNER IS TO INDICATE IF THE SLAB IS PLANAR OR NON-PLANAR, CURVED OR STRAIGHT. IF CURVED SHOW TITITITITITITITITITI

THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND "INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.

FABRICATION GENERAL NOTES:

EPOXY COATED DOWEL BARS USED SHALL COMPLY WITH ASTM A 615 GRADE 60.

2. ALL EMBEDDED LIFTING HARDWARE USED SHALL BE GALVANIZED.

- A. FOR LIFTING INSERTS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION INCLUDING MINIMUM EDGE DISTANCE AND SPACING REQUIREMENTS. UNLESS THE CONTRACTOR AND FABRICATOR WILL BE USING A LIFTING BEAM OR ROLLING SHEAVE TO ENSURE THAT EACH OF THE FOUR INSERTS WILL SHARE THE LOAD FOLIALLY TWO OF THE FOUR INSERTS SHALL BE CAPABLE OF CARRYING THE TOTAL LOAD WITH A 4:1 SAFETY FACTOR WHILE ADJUSTING FOR THE ANGLE OF THE CABLES AND THE STRENGTH OF THE CONCRETE OVER TIME. THE INSERT SHOULD BE RECESSED A MINIMUM OF 1½" UNLESS THE SLAB IS TO BE OVERLAID IMMEDIATELY AFTER PLACEMENT. THE INSERT SHALL LEAVE A MAXIMUM 11/4" DIAMETER THREADED HOLE TO BE GROUTED AFTER SLAB INSTALLATION. IF THE INSERT IS INSTALLED WITH A FULL SLAB PENETRATION, THE LIFTING INSERT CAN BE USED AS A BEDDING GROUT PORT AT THE CONTRACTOR'S DISCRETION.
- B. FOR LIFTING PLATES, INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND HAVE A STANDARD 5:1 SAFETY FACTOR FOR LIFTING HARDWARE. UNLESS A LIFTING BEAM IS USED TO SPACE THE FOUR PICK POINTS DIRECTLY ABOVE THE INSERTS. THE LIFTING HARDWARE SHALL BE RATED FOR LISE WITH CABLES AT AN ANGLE AND TWO OF THE FOUR DEVICES MUST BE CAPABLE OF LIFTING THE FULL LOAD AS WITH THE INSERTS REFERENCED IN THE PREVIOUS NOTE
- REINFORCEMENT USED SHALL BE EPOXY COATED. IN ACCORDANCE WITH ASTM A706 GRADE 60 AND IN COMPLIANCE WITH ARTICLE 1006.10 OF THE IDOT STANDARD SPECIFICATIONS.
- CONCRETE COVER OVER REINFORCEMENT TO BE MAINTAINED USING WIRE OR THERMOPLASTIC CHAIRS OR SPACERS OR AN APPROVED EQUIVALENT.
- ULTRA HIGH PERFORMANCE CONCRETE (UHPC) USED FOR LONGITUDINAL /TRANSVERSE JOINT, SITE CASTING AND DEMONSTRATION PANEL FIT: CLOSURE POUR, UNDERSLAB GAP AND LIFTING LOOP HOLES SHALL MEET THE SPECIAL PROVISIONS FOR ULTRA HIGH-PERFORMANCE CONCRETE (ILLINOIS TOLLWAY)
- PRECAST ELEMENTS: HIGH PERFORMANCE CONCRETE SHALL CONFORM TO TOLLWAY SPECIAL PROVISION OF "PRECAST CONCRETE BRIDGE APPROACH SLABS (ILLINOIS TOLLWAY)" AND AS REQUIRED IN THE PLANS. SITE CASTING SHALL CONFORM TO THE SITE CASTING PROVISIONS LISTED IN THE PLANS AND MATERIALS MUST BE APPROVED BY THE ILLINOIS TOLLWAY MATERIAL ENGINEER PRIOR TO ANY CONCRETE CASTING, COMPRESSIVE STRENGTH OF PRECAST CONCRETE fc SHALL BE 5,000 PSI, COMPRESSIVE STRENGTH OF PRECAST CONCRETE DURING INITIAL LIFTING. fci SHALL BF 4.500 PSI
- POLYETHYLENE SHEET BOND BREAKER MATERIAL: PROVIDE LOW DENSITY POLYETHYLENE SHEET MEETING THE REQUIREMENTS OF ASTM D4635 THAT WILL ALLOW FOR SLIDING OF THE STRUCTURAL CONCRETE AFTER PLACEMENT. SUPPLY SHEETS THAT ARE A MINIMUM OF 6 MIL THICK UNLESS SHOWN OTHERWISE

SLAB DESIGN:

- GENERAL DESIGN REQUIREMENTS:
 - A. USE SLAB DIMENSIONS SHOWN ON THESE DRAWINGS FOR DESIGN THICKNESS. LENGTHS AND WIDTHS OF EACH CUSTOM SLAB SHALL BE OF ACCURATE DIMENSIONS TO COMPLY WITH THE DESIGN AND PROFILE OF THE BRIDGE STRUCTURE. WHICH THE APPROACH SLAB IS DESIGNED
 - B. FOR NON-PLANAR APPROACH SLABS, THE ELEVATIONS SHALL BE OBTAINED BY EITHER CASTING THE SLAB IN A NON-PLANAR FORM: OR BY CASTING THE SLAB PLANAR TO ALLOW FOR TOP SURFACE ELEVATIONS TO BE OBTAINED BY DIAMOND GRINDING AFTER PLACEMENT WHILE MINIMUM TOTAL SLAB THICKNESS AND MINIMUM CONCRETE COVER OVER REINFORCEMENT ARE SATISFIED. OVERCASTING AND GRINDING OF NON-PLANAR SLABS ARE NOT PAID SEPARATELY AND ARE INCLUDED IN THE COST OF PRECAST APPROACH SLABS. IF SURFACE GRINDING IS INCLUDED AS A PAY ITEM, THEN SURFACE GRINDING OF THE APPROACH SLABS IS INCLUDED IN THAT PAY ITEM., UNLESS NOTED OTHERWISE.
- MISCELLANEOUS DETAIL REQUIREMENTS:
 - A. GROUT PORT HOLES SHALL BE LOCATED ON TRANSVERSE LINES ACROSS THE SLAB ABOVE THE ABUTMENT AND PILE CAP THAT ARE PARALLEL WITH EXISTING TRANSVERSE JOINTS. EACH PORT HOLE SHALL BE EVENLY DISTRIBUTED ON EACH LINE. THE DISTANCE BETWEEN BEDDING GROUT PORT HOLES SHALL NOT EXCEED 4'-0" WITH THE PORT HOLES AT THE END OF THE TRANSVERSE LINES TO BE NO LESS THAN 1'-6" AND NO MORE THAN 3'-0" OFF A LONGITUDINAL JOINT. THE TRANSVERSE LINES FOR PORT HOLES SHALL BE NO MORE THAN 4'-0"APART, AND NO MORE 6" OFF OF A TRANSVERSE JOINT.
- B. RECESS LIFTING DEVICES 11/4" MINIMUM BELOW THE SURFACE OF THE SLAB TO ALLOW FOR A MINIMUM GROUT COVER OF 1" COVER AFTER MAXIMUM ½" DIAMOND GRINDING ON SLABS THAT WILL NOT BE OVERLAID. INSTALLATION:

FABRICATION

- PREPARE WORKING DRAWINGS THAT SHALL INCLUDE THE FOLLOWING INFORMATION: SLAB LAYOUT DRAWING FOR TYPICAL SLABS TO BE FABRICATED, WITH ACCURATE
- REINFORCEMENT SIZES, SPACING, NUMBER OF MATS, AND METHOD OF MAINTAINING CONCRETE COVER
- SIZE AND LOCATION OF GROUT PORTS, LIFTING ANCHORS, AND GROUT SEAL
- COMPRESSIVE STRENGTH AT 28 DAYS AND AIR CONTENT OF CONCRETE.
- CONCRETE CURING METHOD TO BE USED.

 MARKING LEGEND FOR EACH SLAB TO INDICATE PRECAST MANUFACTURER, AND
- DATE OF PRODUCTION; AND FOR EACH CUSTOM SLAB TO INCLUDE CONTRACT NUMBER AND MARK NUMBER OF THE SLAB.
- WEIGHT OF EACH SLAB.
- PERFORM A PRE-POUR INSPECTION OF THE FORMS TO CONFIRM THAT THEY ARE ASSEMBLED IN ACCORDANCE WITH THE FOLLOWING TOLERANCES:

LENGTH AND WIDTH DIAGONALS DOWEL VARIANCE FROM,

LEVEL, SQUARENESS TO EDGE OF SLAB, & LOCATION.

EDGE SQUARENESS 1/8" IN 10" (IN RELATION TO TOP AND BOTTOM SURFACES) INCLUDE A 1 INCH CHAMFER ALONG ALL BOTTOM EDGES OF SLABS AND A STONED EDGE TO

- THE EXPOSED SURFACES OF ALL PREFORMED SLOTS FOR DOWEL BARS SHALL BE SANDBLASTED, PLASTIC SLEEVES FOR ANCHOR BOLTS, GROUT PORTS SHALL BE CAST 1/4" LOWER THAN THE FINISHED TOP OF SLAB TO AVOID EXPOSURE AFTER DIAMOND GRINDING OR AN APPROVED METHOD OF CASTING SLEEVE INSTALLATION RESULTING IN THEIR REMOVAL AFTER SLAB IS CAST CAN BE USED
- AFTER REMOVAL OF FORMS AND ANY BLOCKOUTS, NO SPALLS OF THE FINISHED SURFACE WILL BE ALLOWED.
- SHOP DRAWINGS SHALL BE REQUIRED FOR ALL SLABS.

THE PRECAST FABRICATOR SHALL INITIALLY FABRICATE ONE FULL SET OF APPROACH PANELS AND ASSEMBLE THESE PANELS AT THE FABRICATION PLANT TO DEMONSTRATE THE FIT OF THE PANELS TO MATCH THE PROFILE GRADE AND CROSS SLOPES . SKEW OR CURVE AS PER VERIFIED FIELD SURVEYED MEASUREMENT TO THE SATISFACTION OF THE ENGINEER. THE PANELS SHALL BE ASSEMBLED OVER A LEVEL SURFACE THAT WILL NOT CAUSE DAMAGE TO THE PANELS DURING OR AFTER ASSEMBLY. JOINTS BETWEEN PANELS SHOULD BE WITH VERTICAL SIDES AND SHOULD NOT BE SPACED MORE THAN THE SPECIFIED GAP WHEN ASSEMBLED

PANEL JOINT ALIGNMENT FOR THE OUTER SLABS UNDER THE PARAPET SHOULD BE VERIFIED TO MATCH PARAPET WALL ABOVE AS SHOWN ON THE CONSTRUCTION PLANS. ANY PROBLEMS WITH FITTING THE PANELS CAUSED BY IMPERFECTIONS IN THE PANELS SHALL BE CORRECTED PRIOR TO PROCEEDING WITH PANEL FABRICATION. PANEL FABRICATION MAY COMMENCE FOLLOWING THE TRIAL ASSEMBLY ONLY UPON APPROVAL FROM THE ENGINEEER.

TRANSPORTATION

PANELS SHALL BE TRANSPORTED IN SUCH A MANNER THAT THE PANEL WILL NOT BE DAMAGED DURING TRANSPORTATION AS PER ARTICLE 106.07 OF THE IDOT STANDARD SPECIFICTIONS, PLASTIC CORNER PIECES OR SHOCK-ABSORBING CUSHIONING MATERIAL SHALL BE USED AT ALL BEARING POINTS AND ALL EXPOSED CORNERS DURING
TRANSPORTATION OF THE PRECAST ELEMENTS. PANELS SHALL BE PROPERLY SUPPORTED DURING TRANSPOTATION SUCH THAT CRACKING OR DEFORMATION (SAGGING) DOES NOT OCCUR. IF MORE THAN ONE PANEL IS TRANSPORTED PER VEHICLE, PROPER SUPPORT AND SEPARATION MUST BE PROVIDED BETWEEN THE INDIVIDUAL PANELS. PANELS SHALL BE LYING HORIZONTALLY DURING TRANSPORTATION, UNLESS OTHERWISE APPROVED

PRECAST ELEMENTS DAMAGED DURING HANDLING AND STORAGE SHALL BE REPAIRED OR REPLACED AT NO COST TO THE ILLINOIS TOLLWAY.

A PRECAST ELEMENT SHALL NOT BE TRANSPORTED FROM THE CASTING YARD UNTIL THE MINMUM 28 DAY COMPRESSIVE STRENGTH SPECIFIED ON PROJECT PLANS HAS BEEN ATTAINED AS SHOWN BY TEST CYLINDER CURED IN ACCORDANCE WITH AASHTO T 23.

MATERIAL, QUALITY AND CONDITION AFTER SHIPMENT WILL BE INSPECTED AFTER DELIVERY TO THE CONSTRUCTION SITE, WITH THIS AND ANY PREVIOUS INSPECTIONS CONSTITUTING ONLY PARTIAL ACCEPTANCE

REPAIRS

REPAIRS OF DAMAGE CAUSED TO THE PANELS DURING FABRICATION, LIFTING AND HANDLING, OR TRANSPORTATION SHALL BE ADDRESSED ON A CASE-BY-CASE BASIS DAMAGE WITHIN ACCEPTABLE LIMITS CAUSED TO THE TOP OF THE SURFACE (DRIVING SURFACE) OR TO KEYED EDGES OF THE PANELS SHALL BE REPAIRED USING AN APPROVED REPAIR METHOD AT THE FABRICATION PLANT AT THE EXPENSE OF THE CONTRACTOR. REPETITIVE DAMAGE TO PANELS SHALL BE CAUSE FOR STOPPAGE OF FABRICATION OPERATIONS UNTIL CAUSE OF DAMAGE CAN BE

THE FARRICATION AND INSTALLATION OF A NON-GENERIC TO LIWAY APPROVED PRECAST SYSTEM SHALL RE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE FARRICATION AND INSTALLATION OF GENERIC ILLINOIS TOLLWAY SYSTEM PRECAST APPROACH SLABS SHALL BE IN ACCORDANCE WITH THE GENERAL NOTES ON ILLINOIS TOLLWAY STANDARD DRAWINGS A1, IN ADDITION TO WHAT IS SPECIFIED OR NOTED IN THE PLANS FOR THE SPECIFIC CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM ALL 2 AND 3 DIMENSIONAL SURVEYS OF EXISTING PAVEMENTS AND STRUCTURES AS REQUIRED BY THE APPROVED PRECAST SYSTEM MANUFACTURER OR BY TOLLWAY STANDARDS TO PROPERLY FABRICATE AND INSTALL THE SLABS TO OBTAIN THE FINISHED SURFACE ELEVATIONS AND MINIMUM THICKNESSES AS REQUIRED BY THE SPECIFIC CONTRACT

ALL PRECAST SLABS INSTALLED MUST BE SECURED IN PLACE USING NON-COMPRESSIBLE TAPERED SHIMS AS SPECIFIED BEFORE BEING OPENED TO TRAFFIC AND UNTIL THE SLABS ARE PERMANENTLY CONNECTED AND GROUTED TO ADJACENT PAVEMENT.

FOR PRECAST SLABS SUPPORTED AND LEVELED BY LEVELING BOLTS OVER THE PILE CAP AND ABUTMENT, THE SPECIFIED SUPPORT BEDDING GROUT SHALL BE USED AFTER FULL SLAB INSTALLATION TO FILL ALL VOIDS BETWEEN THE PRECAST SLAB OVER UNDERLYING PILE CAP AND ABUTMENT, BEFORE THE SLABS ARE OPENED TO TRAFFIC.

ANY TIE BARS REQUIRED IN LONGITUDINAL JOINTS BETWEEN PRECAST SLABS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARDS OF THE APPROVED SYSTEM USED

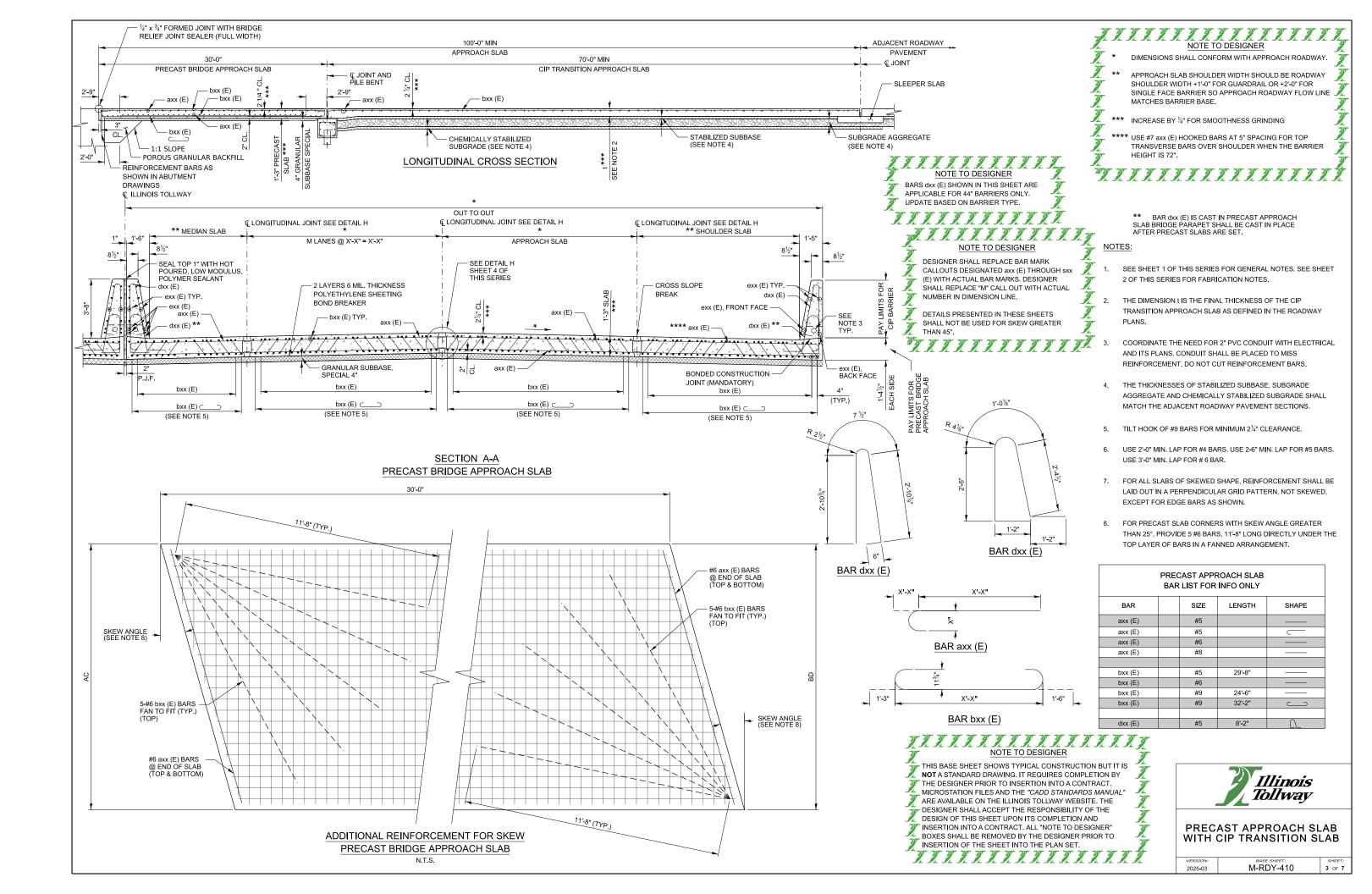
TOP OF SLAB (T.O.S.) ELEVATIONS ARE TO BE BASED ON THE DESIGNED PROFILE FOR THE BRIDGE, WHICH THE APPROACH SLAB IS DESIGNED FOR NON-PLANAR PANELS FOR SUPER ELEVATED STRUCTURES MAY OBTAIN T.O.S. ELEVATIONS (PROFILE AND CROSS SLOPE) BY EITHER CASTING THE PANELS IN NON-PLANAR FORMS OR BY DIAMOND GRINDING IN ACCORDANCE WITH THIS NOTE. DIAMOND GRINDING OF THE PRECAST APPROACH SLAB, TO OBTAIN DESIRED ELEVATIONS, SHALL NOT BE ALLOWED IF MINIMUM TOTAL THICKNESS OR CLEAR COVER OVER TOP REINFORCEMENT CAN NOT BE SATISFIED. PERFORM SLAB GROOVING AFTER DIAMOND GRINDING IS COMPLETE.

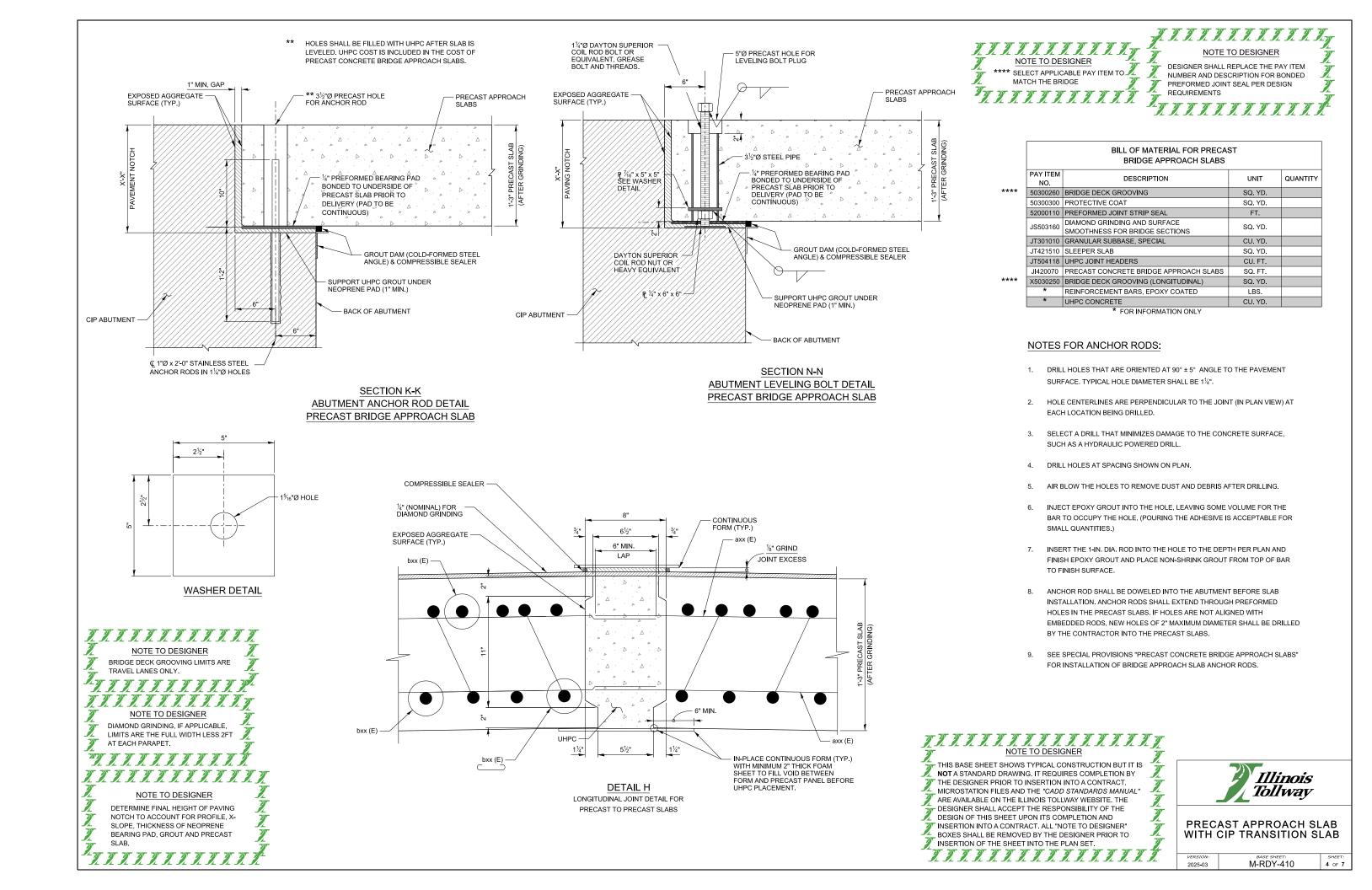


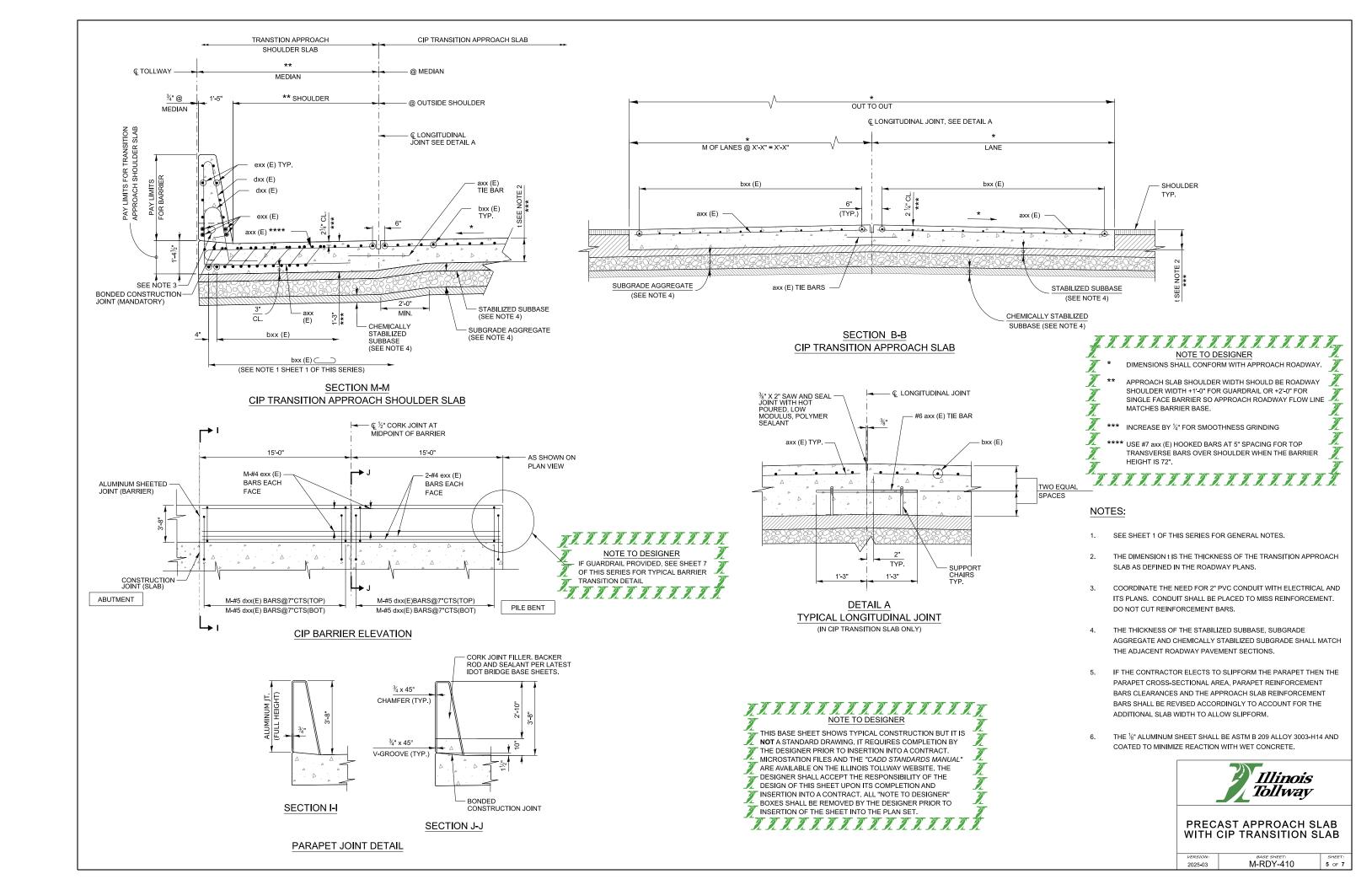
PRECAST APPROACH SLAB WITH CIP TRANSITION SLAB

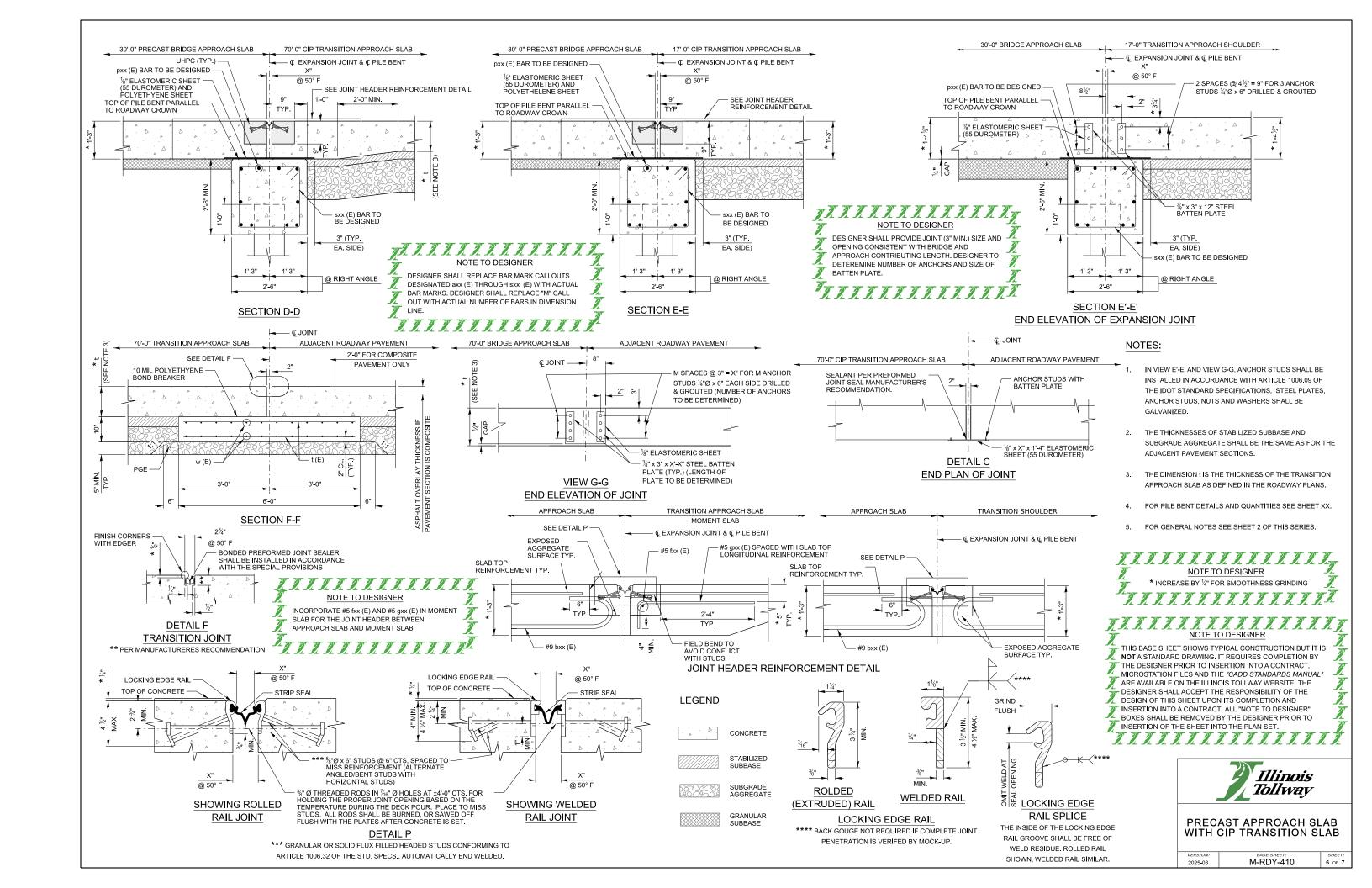
2 of 7

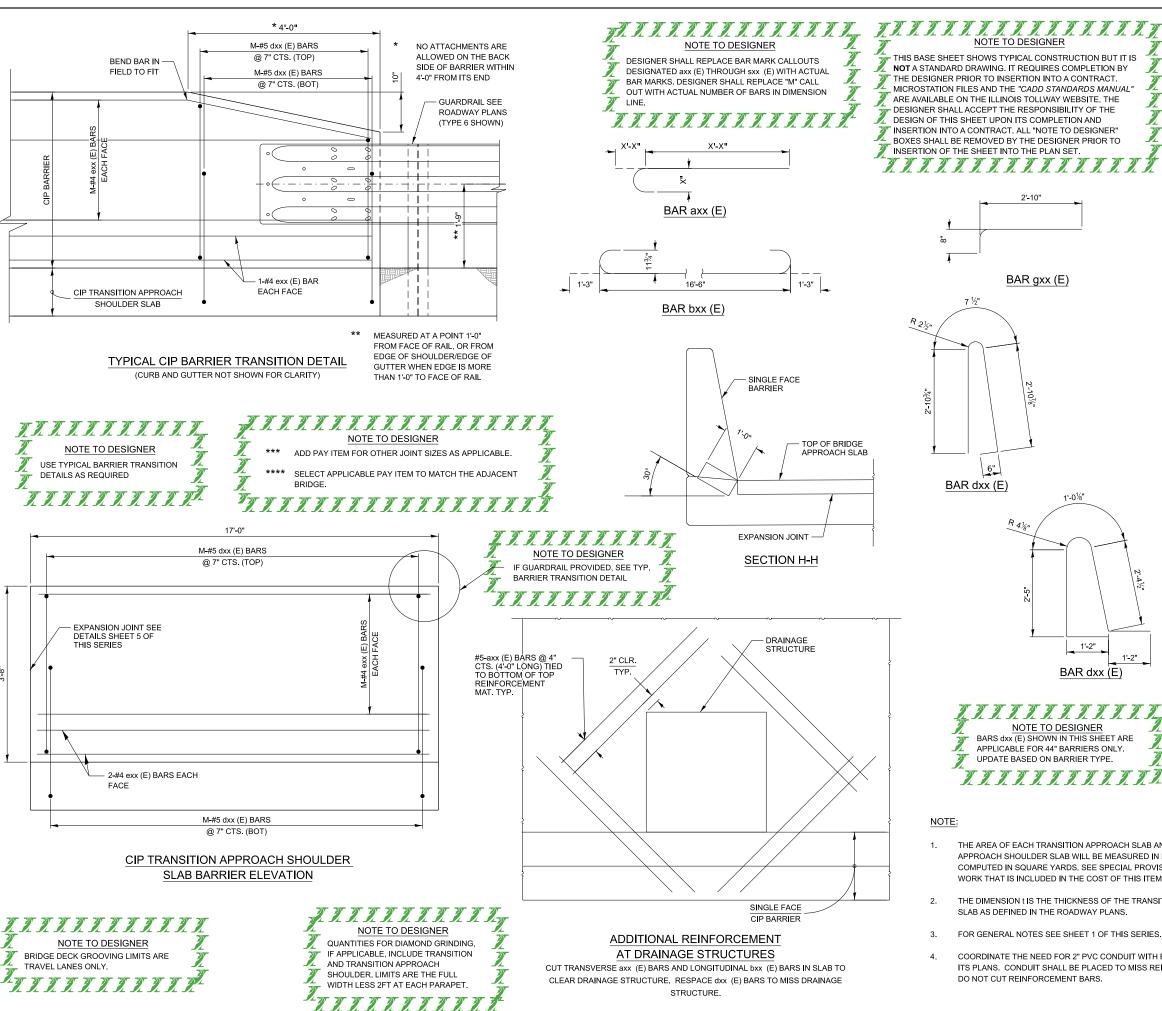
M-RDY-410 2025-03





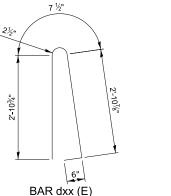


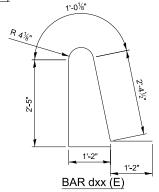




THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT, ALL "NOTE TO DESIGNER". BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.

BAR gxx (E)







* FOR INFORMATION ONLY

BILL OF MATERIAL FOR

CIP TRANSITION APPROACH SHOULDER

AND CIP TRANSITION APPROACH SLAB

LENGTH

19'-0"

8'-2"

3'-6"

5'-8"

UNIT

SQ. YD.

SQ. YD.

SQ. YD.

SQ. YD.

SQ. YD.

SQ. YD.

FT.

SQ. YD.

LBS

SHAPE

 \subseteq

QUANTITY

SIZE

#9

#5

#5

#4

#5

DESCRIPTION

BRIDGE DECK GROOVING

FRANSITION APPROACH

TRANSITION APPROACH

SURFACE SMOOTHNESS FOR BRIDGE SECTIONS

BONDED PREFORMED JOINT

BRIDGE DECK GROOVING

REINFORCEMENT BARS,

PROTECTIVE COAT

SHOULDER SLAB DIAMOND GRINDING AND

SLEEPER SLAB

(LONGITUDINAL)

EPOXY COATED

SEAL, 3 IN.

NO.

axx (E)

axx (E)

bxx (E)

bxx (E)

dxx (E)

fxx (E) gxx (E)

t(E)

w(E)

PAY ITEM

50300260

50300300

JI420041

JI420046

JS503160

JT421510

JT525130

	BILL OF MATERIAL FOR CIP BARRIERS						
BAR	NO.	SIZE	LENGTH		SHAPE		
dxx (E)		#5	7'-0"				
exx (E)		#4					
PAY ITEM NO.	DESCRIPTION			UN	IT	QUANTITY	
50300255	CONCRETE SUPERSTRUCTURE			CU.	YD.		
50300300	PROTECTIVE COAT			SQ.	YD.		
50800205	REINFORCEMENT BARS, EPOXY COATED			LB	S.		

NOTE:

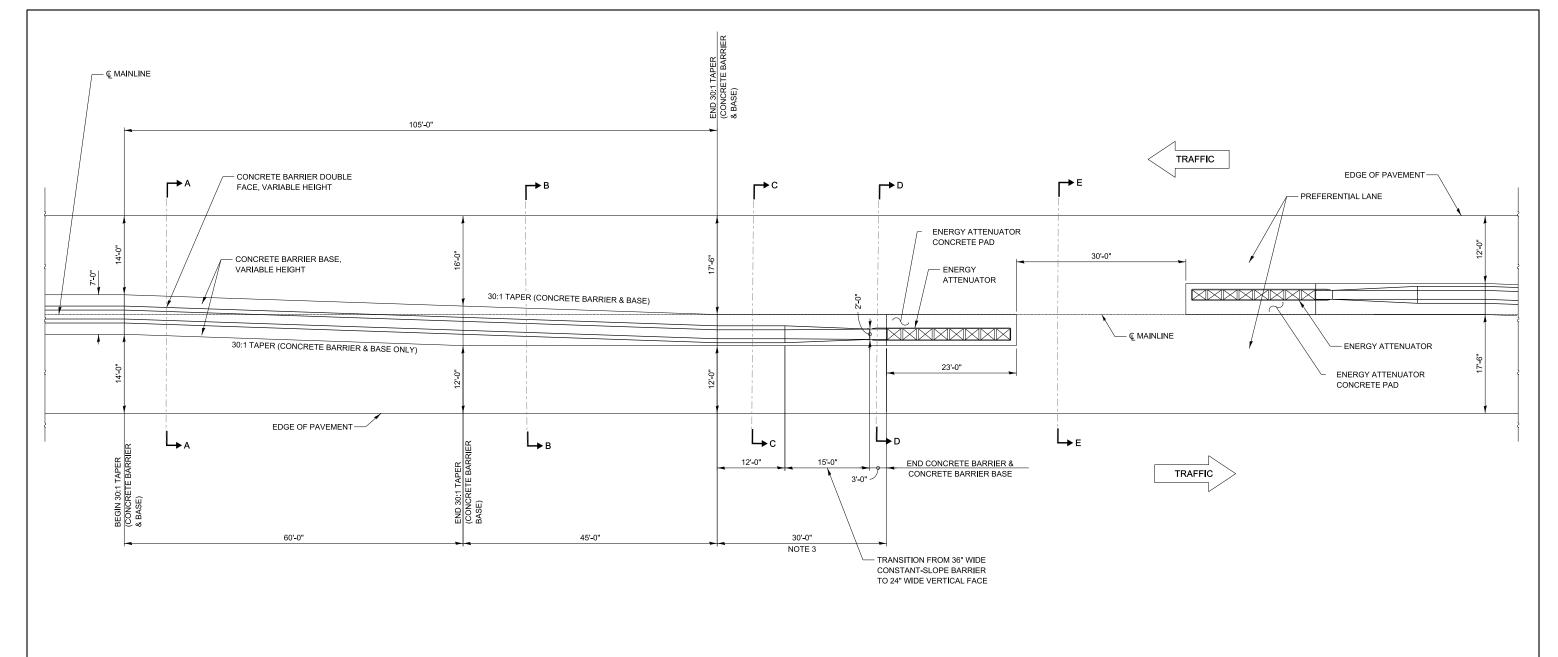
- THE AREA OF EACH TRANSITION APPROACH SLAB AND TRANSITION APPROACH SHOULDER SLAB WILL BE MEASURED IN PLACE AND COMPUTED IN SQUARE YARDS. SEE SPECIAL PROVISIONS FOR OTHER WORK THAT IS INCLUDED IN THE COST OF THIS ITEM.
- THE DIMENSION t IS THE THICKNESS OF THE TRANSITION APPROACH SLAB AS DEFINED IN THE ROADWAY PLANS
- FOR GENERAL NOTES SEE SHEET 1 OF THIS SERIES.
- COORDINATE THE NEED FOR 2" PVC CONDUIT WITH ELECTRICAL AND ITS PLANS. CONDUIT SHALL BE PLACED TO MISS REINFORCEMENT. DO NOT CUT REINFORCEMENT BARS.



PRECAST APPROACH SLAB WITH CIP TRANSITION SLAB

2025-03

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NOTES:

- 1. SEE SHEET 2 OF THIS SERIES FOR SECTIONS A-A THROUGH E-E.
- 2. THE TAPER SHOWN FOR THE CONCRETE BARRIER AND CONCRETE BARRIER BASE IS DUPLICATED FOR THE OPPOSING TRAFFIC DIRECTION.
- 3. CONCRETE BARRIER SHALL BE PINNED TO BARRIER BASE BY PAIRS OF 12" TIE BARS AT 30" CENTERS IN THE LAST 30' OF THE CONCRETE BARRIER.



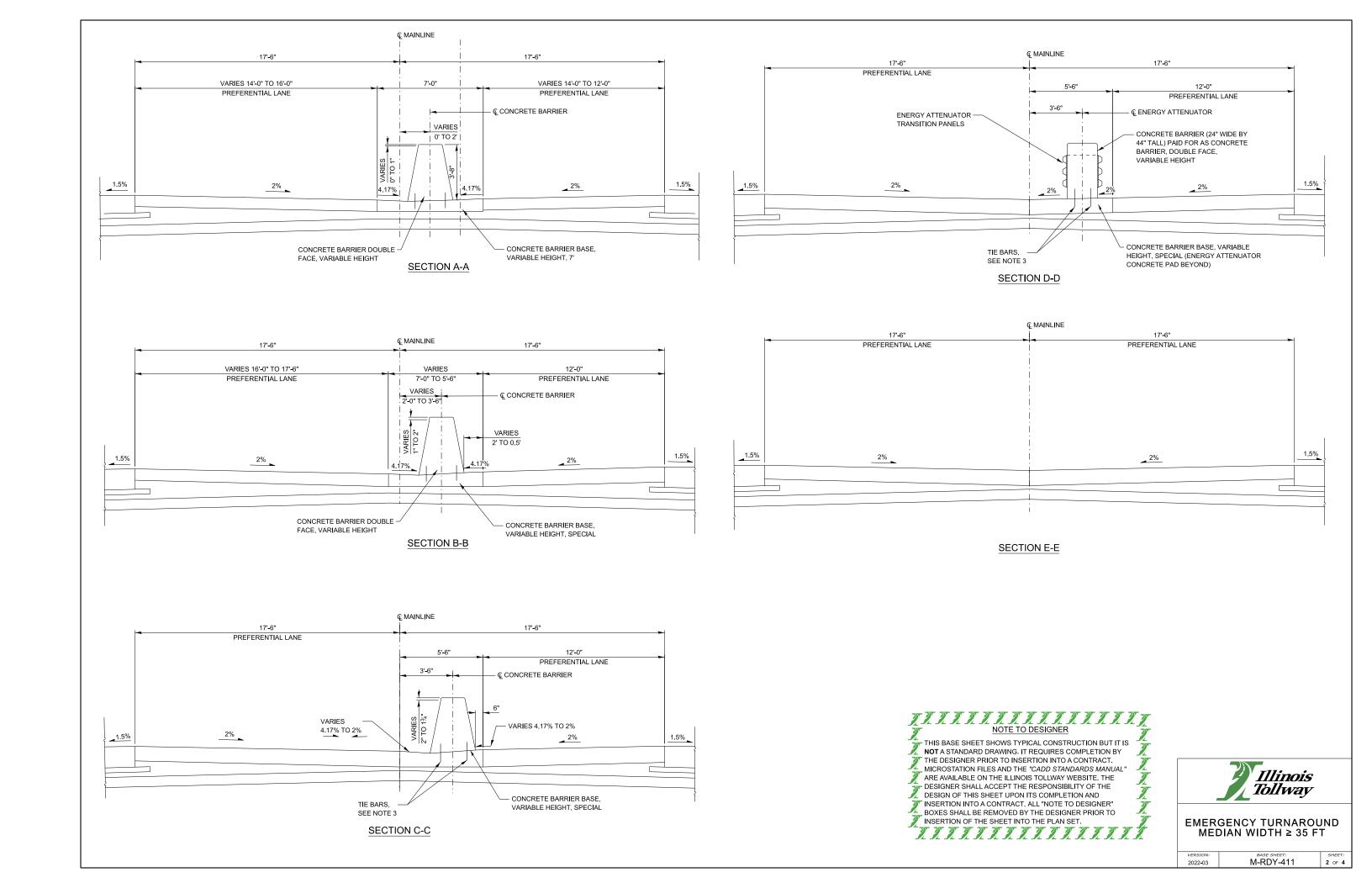


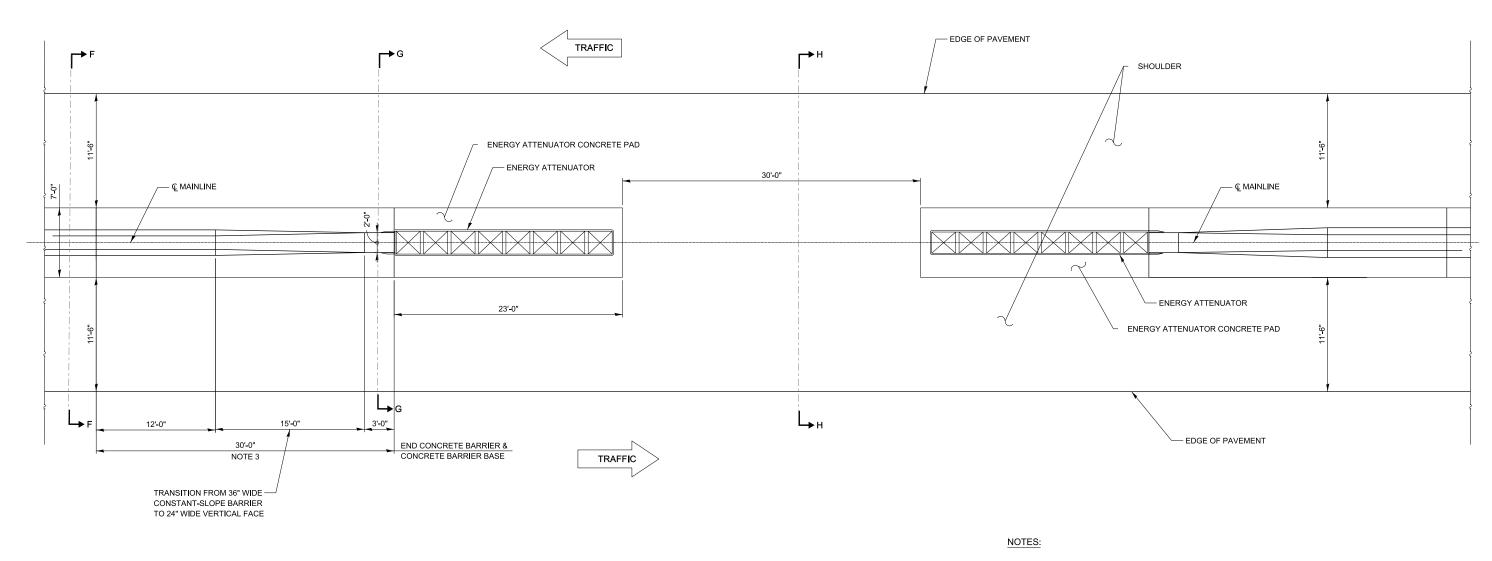
EMERGENCY TURNAROUND MEDIAN WIDTH ≥ 35 FT

VERSION: 2022-03

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1 OF 4





- 1. SEE SHEET 4 OF THIS SERIES FOR SECTIONS F-F THROUGH H-H.
- THE TAPER SHOWN FOR THE CONCRETE BARRIER AND CONCRETE
 BARRIER BASE IS DUPLICATED FOR THE OPPOSING TRAFFIC DIRECTION.
- CONCRETE BARRIER SHALL BE PINNED TO BARRIER BASE BY PAIRS OF 12" TIE BARS AT 30" CENTERS IN THE LAST 30' OF THE CONCRETE BARRIER.



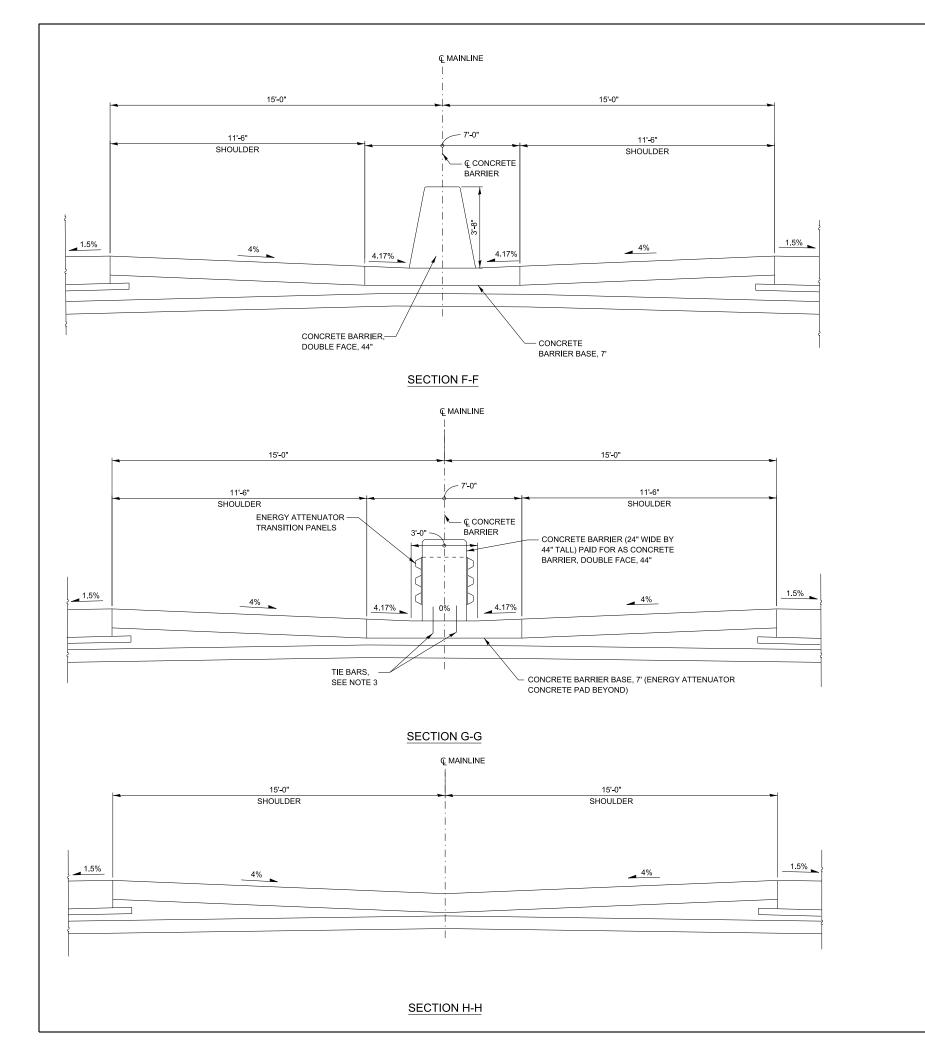


EMERGENCY TURNAROUND MEDIAN WIDTH < 35 FT

VERSION: 2022-03 M-

M-RDY-411

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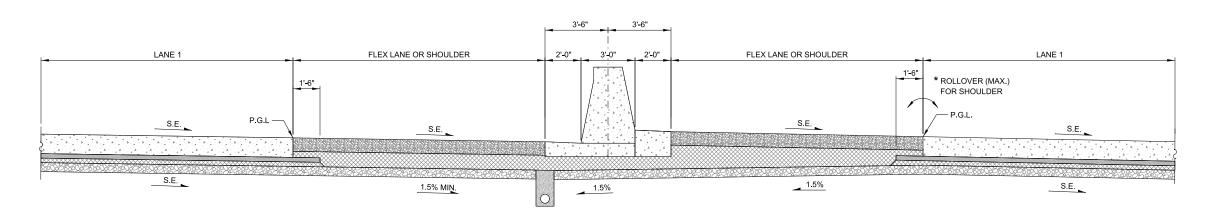


EMERGENCY TURNAROUND MEDIAN WIDTH < 35 FT

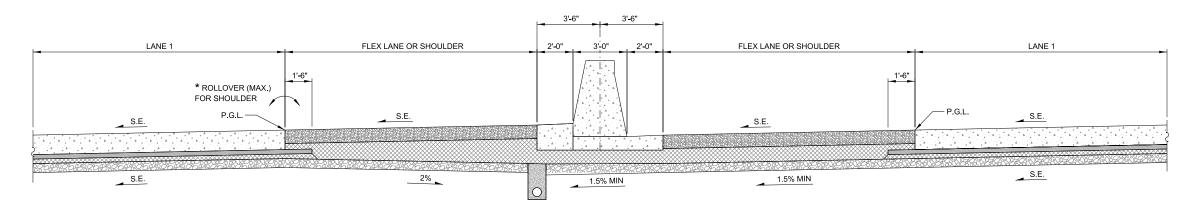
VERSION: 2022-03

BASE SHEET: M-RDY-411

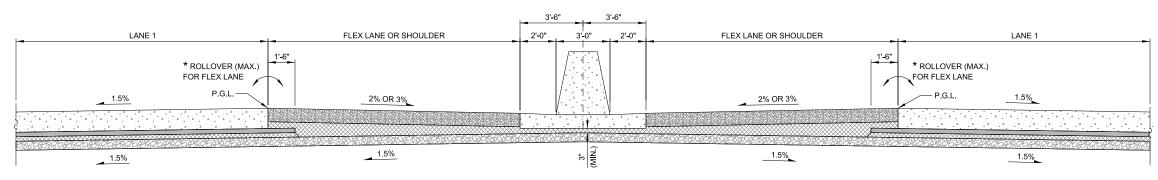
'-411 SHEET: 4 OF 4



SUBGRADE SLOPES AND PIPE UNDERDRAIN LOCATION (SUPERELEVATED SECTION, CURVE TO THE RIGHT)



SUBGRADE SLOPES AND PIPE UNDERDRAIN LOCATION (SUPERELEVATED SECTION, CURVE TO THE LEFT)



SUBGRADE SLOPES (NORMAL CROWN SECTION)



* REFER TO ROADWAY DESIGN CRITERIA SECTION 2.4.9 FOR MAX ROLLOVER VALUES.

NOTE TO DESIGNER

IN CASES WHERE 1.5% SUBGRADE CROSS SLOPE AND 3" MIN SUBGRADE CANNOT BE MET, AN UNDERDRAIN OR ALTERNATIVE DESIGN NEEDS TO BE EVALUATED.

NOTE TO DESIGNER TO THE TOTAL TOTAL

THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS

NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY

THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT.

MICROSTATION FILES AND THE "CADD STANDARDS MANUAL"

ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE

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INSERTION OF THE SHEET INTO THE PLAN SET.

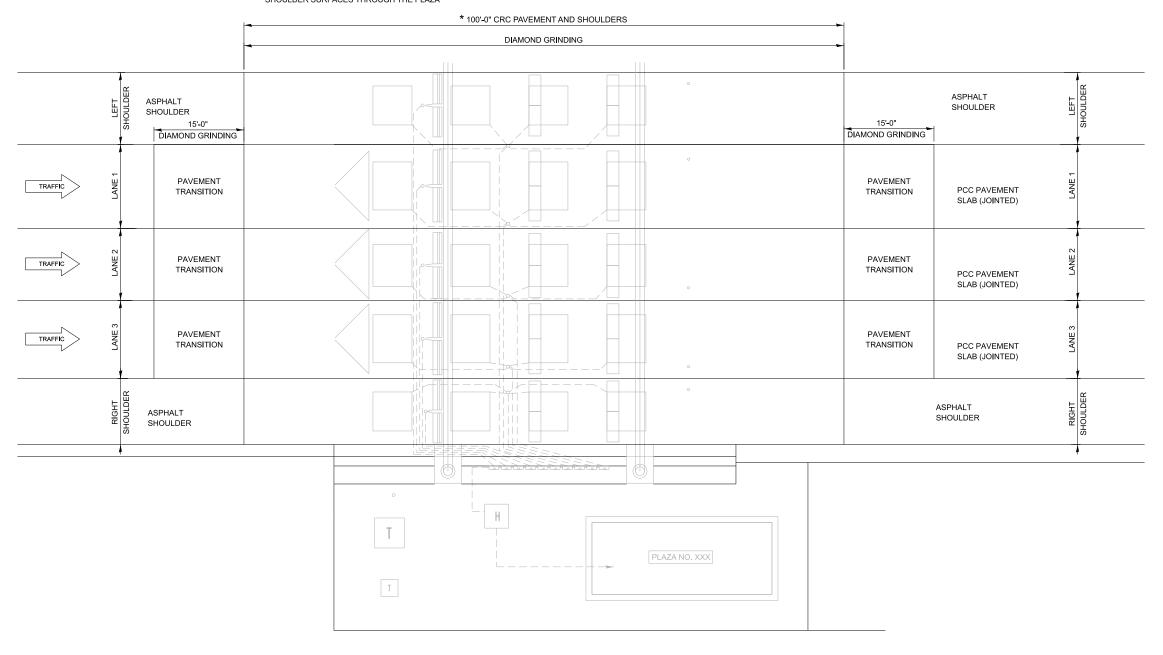


ROADWAY SUBGRADE SLOPES - MEDIAN BARRIER

1 of 1

VERSION: BASE SHEET:
2023-03 M-RDY-412

* OMIT TINING OF CONCRETE PAVEMENT AND SHOULDER SURFACES THROUGH THE PLAZA





NOTE TO DESIGNER

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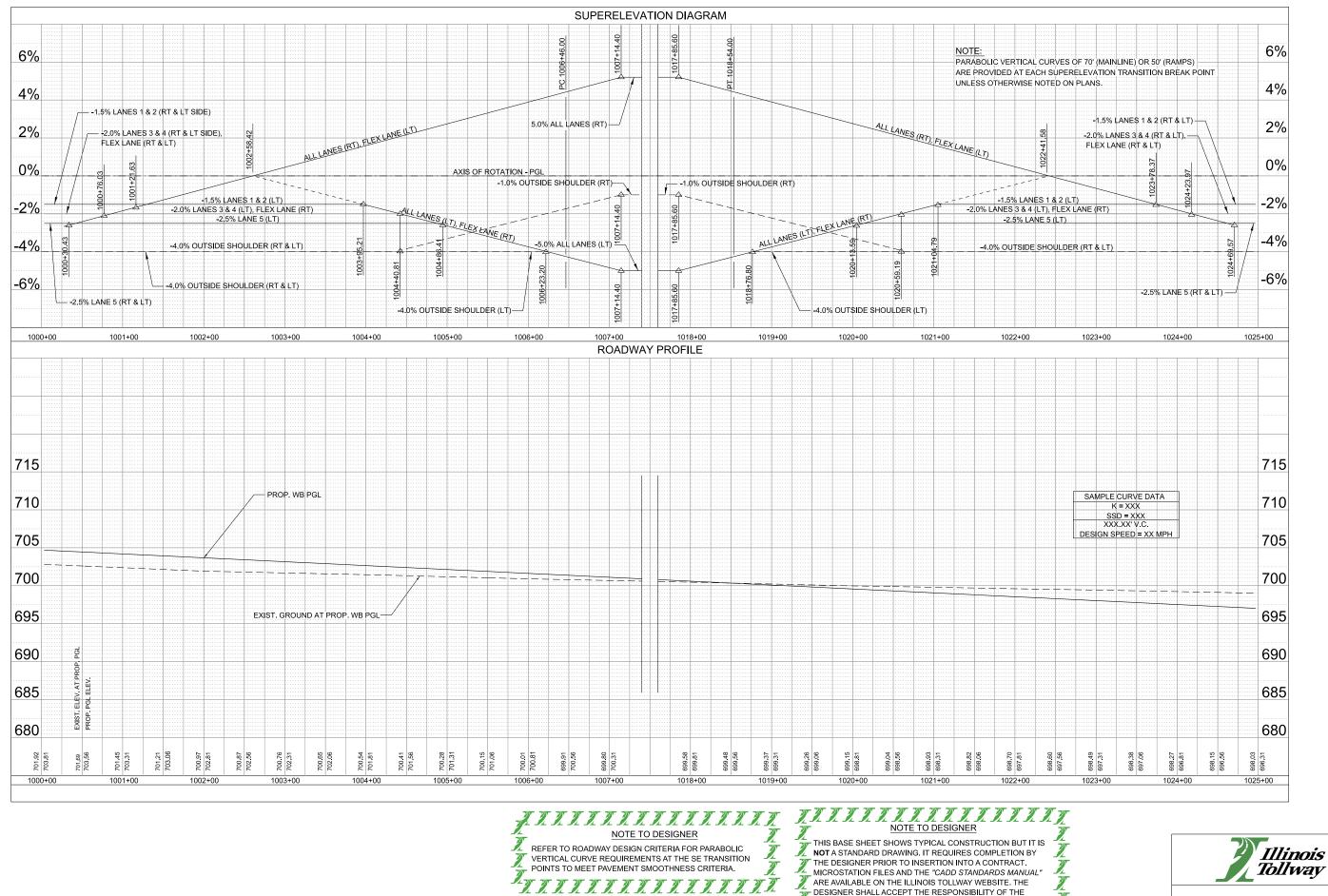
INSERTION OF THE SHEET INTO THE PLAN SET.



DIAMOND GRINDING OF PLAZA

1 OF 1

VERSION: BASE SHEET: 2023-03 M-RDY-413



DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT, ALL "NOTE TO DESIGNER"

INSERTION OF THE SHEET INTO THE PLAN SET.

BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO

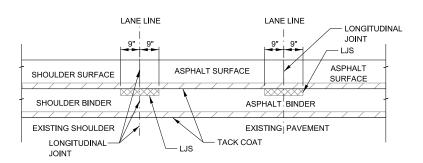
ROADWAY PROFILE AND SUPERELEVATION

2020-03

M-RDY-414

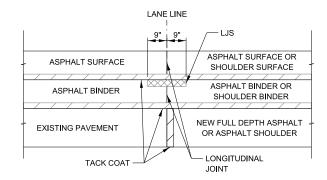
1 OF 1

TYPICAL LJS (FIGURES 1 & 2)



THE LJS APPLICATION SHALL BE CENTERED UNDER THE ASPHALT SURFACE JOINT, LOCATION OF BINDER JOINT MAY VARY.

FIGURE 1 TYPICAL LJS PLACEMENT



WHERE ASPHALT IS PLACED ACROSS AN EXISTING JOINT OR ACROSS A WIDENING JOINT (TYPICALLY FULL DEPTH ASPHALT OR SHOULDER WIDENING ADJACENT TO EXISTING OR NEWLY CONSTRUCTED PCC), THE LJS SHALL BE CENTERED ACROSS THE EXISTING OR WIDENING JOINT.

LEGEND

TACK COAT

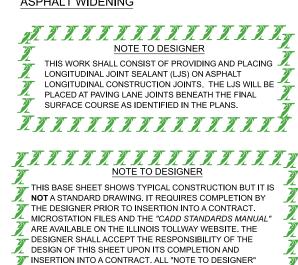
LONGITUDINAL

JOINT SEALANT

MILLED AREA

(LJS)

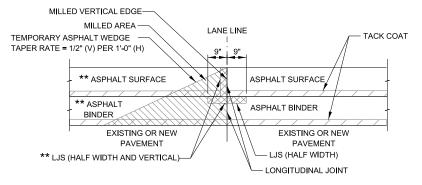
FIGURE 2 TYPICAL LJS PLACEMENT -ASPHALT WIDENING



BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO

INSERTION OF THE SHEET INTO THE PLAN SET.

STAGING LJS (FIGURES 3 & 4)



** PLACED DURING SUBSEQUENT STAGE

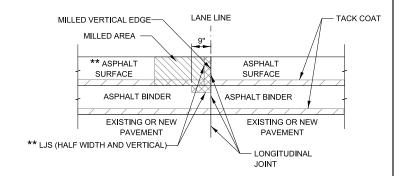
WHERE 2 LAYERS OF ASPHALT ARE SPECIFIED IN THE PLANS. AND THE LANE(S) ARE REQUIRED TO BE OPENED TO TRAFFIC BEFORE THE FINAL LAYER OF SURFACE IS COMPLETE. PRIOR TO SHIFTING TRAFFIC INTO THE LANE CONFIGURATION SHOWN ON THE PLANS WITH A 2" OR GREATER DROP OFF, A TEMPORARY ASPHALT WEDGE SHALL BE CONSTRUCTED.

WEDGE OPTION, AFTER THE WEDGE IS REMOVED, LJS SHALL BE PLACED AT HALF WIDTH UNDER THE MILLED AREA AT THE LONGITUDINAL JOINT AND ON THE MILLED VERTICAL EDGE.

FIGURE 3 MILLED WEDGE AREA

LONGITUDINAL IOINT SEALANT SCHEDULE OF QUANTITIES

LONGITUDINAL JOINT SEALANT SCHEDULE OF QUANTITIES						
NUMBER OF		QUANTITY				
	JOINTS		(FOOT)			
LOCATION	FULL WIDTH	HALF WIDTH	LONGITUDINAL JOINT SEALANT, FULL WIDTH	LONGITUDINAL JOINT SEALANT, HALF WIDTH	LONGITUDINAL JOINT SEALANT, HALF WIDTH AND VERTICAL	
			JI420906	J I 420907	JI420908	
XXX+XX TO XXX+XX						
70007000700						
TOTAL	TOTAL					



** PLACED DURING SUBSEQUENT STAGE

EXTENDED PAVING OPTION, WHERE ASPHALT SURFACE EXTENDS BEYOND THE UNDERLYING PAVEMENT JOINT. AFTER THE WIDENED SURFACE IS MILLED BACK TO THE JOINT, THE LJS SHALL BE PLACED AT HALF WIDTH UNDER THE MILLED AREA AT THE LONGITUDINAL JOINT AND ON THE MILLED VERTICAL EDGE.

FIGURE 4 MILLED SURFACE LAYER

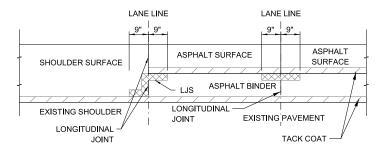
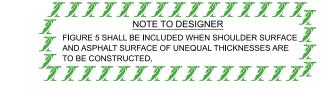


FIGURE 5 TYPICAL LJS PLACEMENT - UNEQUAL SURFACE THICKNESSES



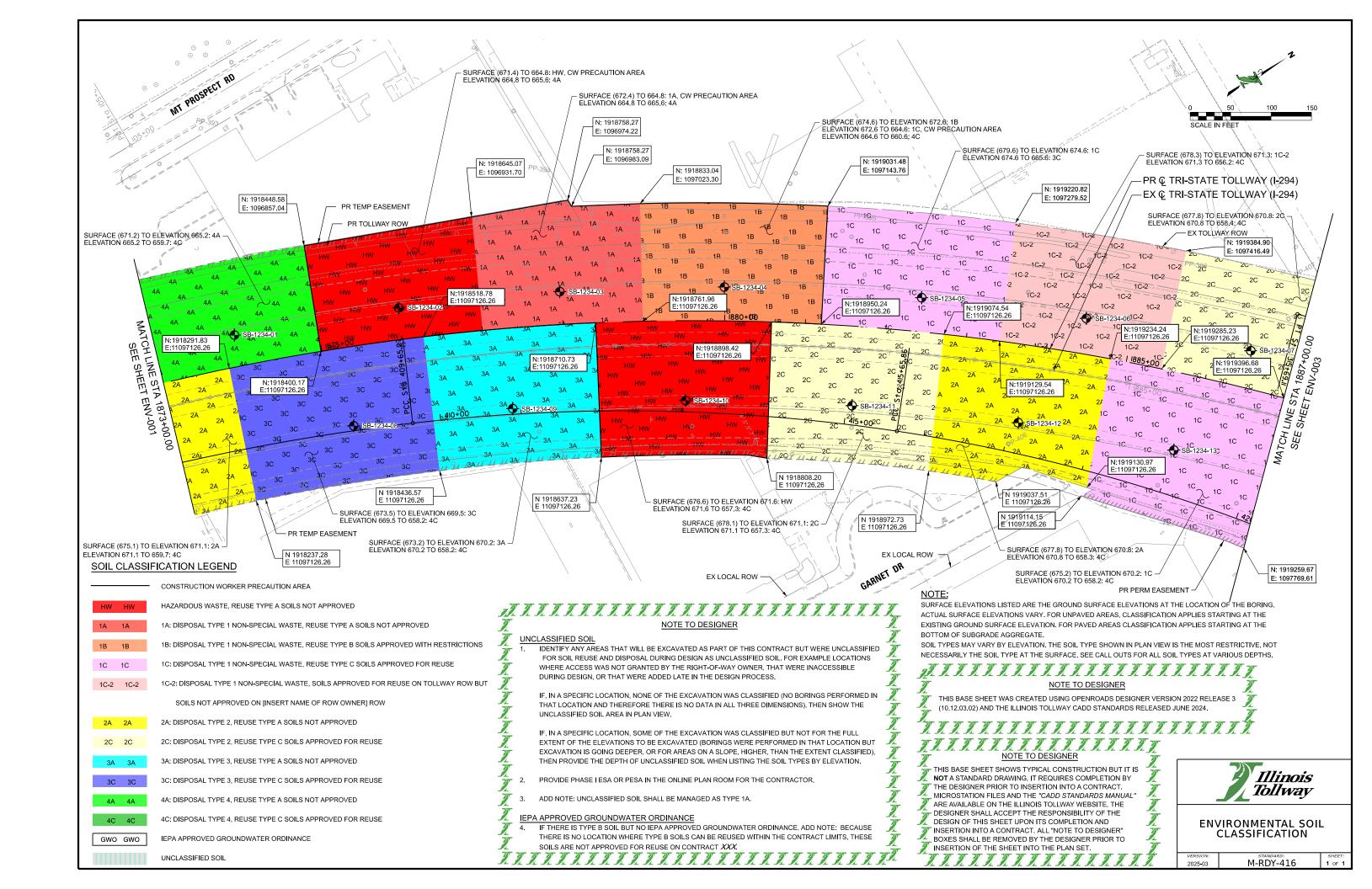


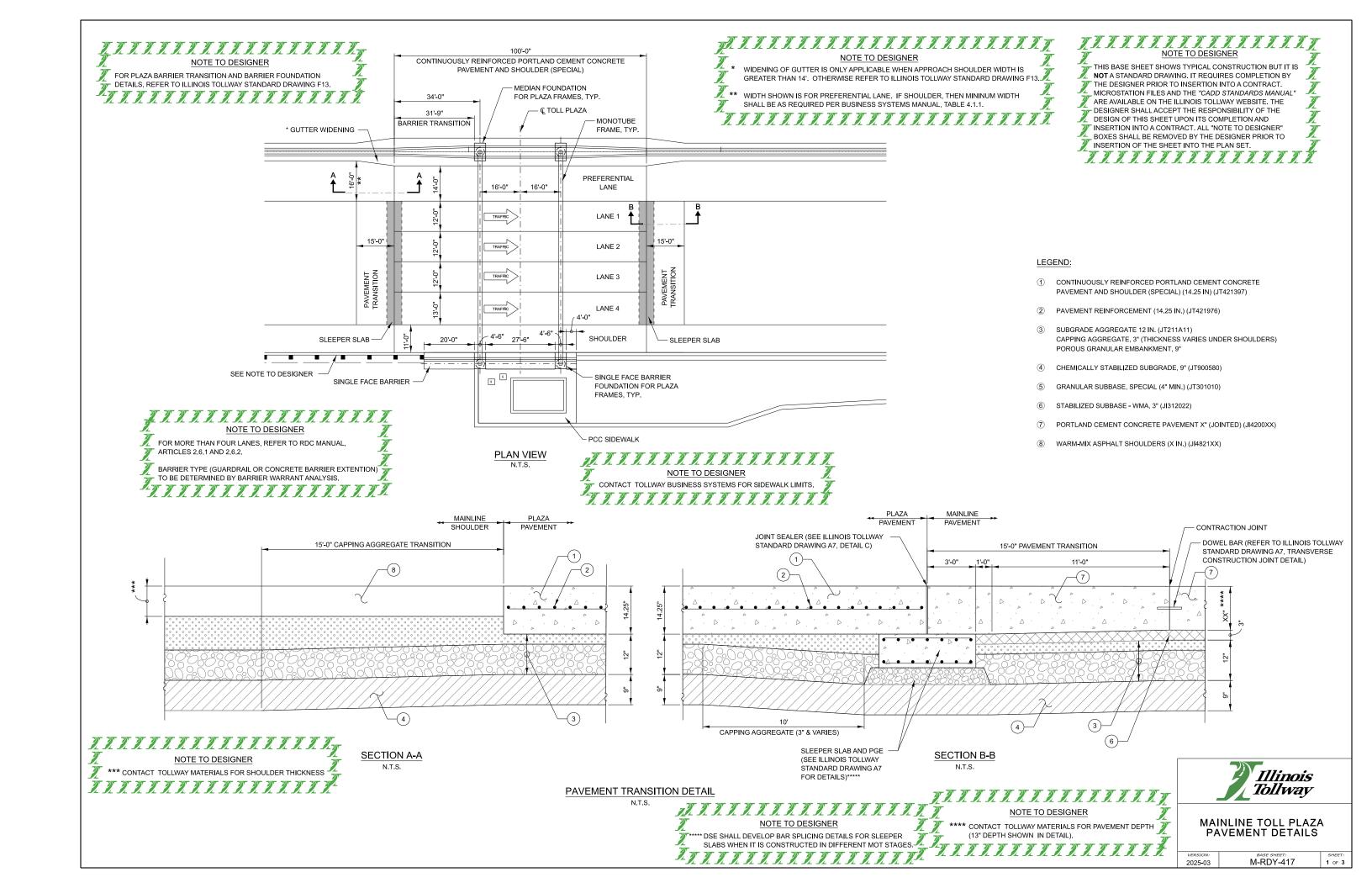


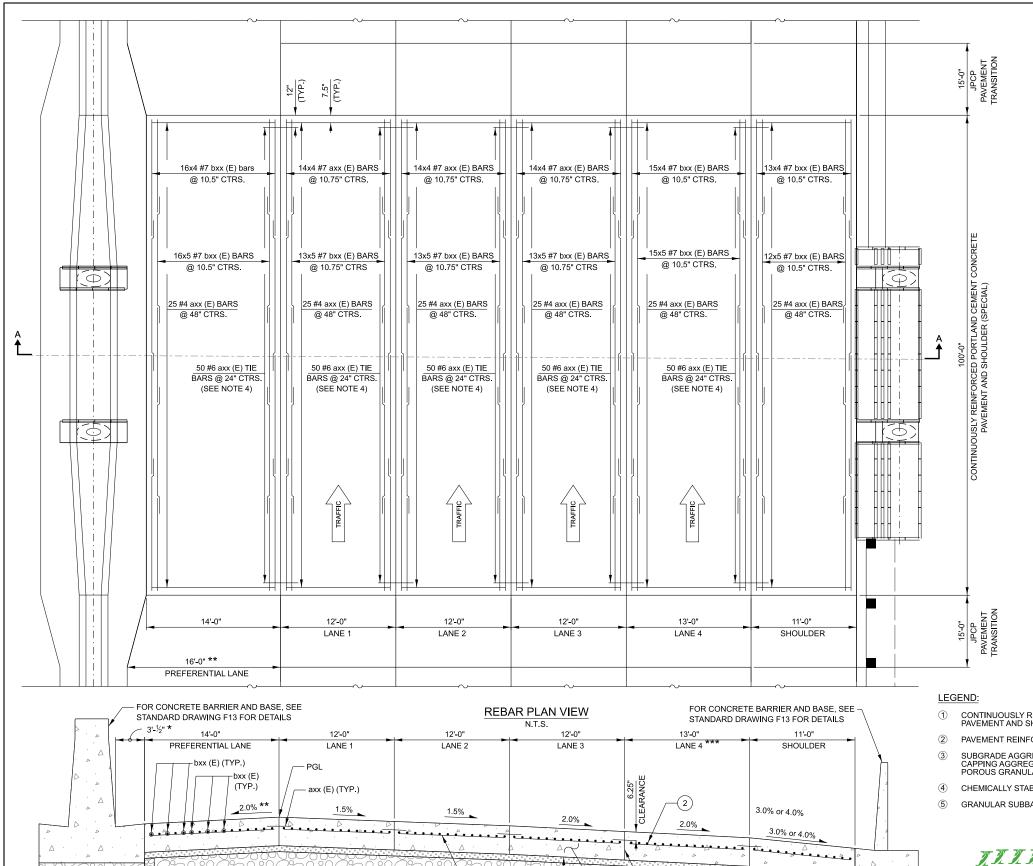
LONGITUDINAL JOINT SEALANT

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- axx (E) (TYP.)

WIDENING OF GUTTER IS ONLY APPLICABLE WHEN APPROACH SHOULDER WIDTH IS GREATER

WIDTH AND CROSS SLOPE SHOWN ARE FOR PREFERENTIAL LANE. IF SHOULDER, THEN WIDTH

AND CROSS SLOPE SHALL BE AS REQUIRED PER BUSINESS SYSTEMS MANUAL, TABLE 4.1.1.

THAN 14'. OTHERWISE REFER TO ILLINOIS TOLLWAY STANDARD DRAWING F13.

FOR MORE THAN FOUR LANES, REFER TO RDC MANUAL, ARTICLES 2.6.1 AND 2.6.2.

SECTION A-A

N.T.S.

LONGITUDINAL

CONSTRUCTION JOINT

NOTES:

- 1. REINFORCEMENT BARS DESIGNATED "E" SHALL BE EPOXY COATED.
- 2. REFER TO SPECIAL PROVISION FOR THE CLASS OF CONCRETE TO BE USED.
- 3. BARS INDICATED THUS MxN #7 ETC. INDICATES M LINES OF BARS WITH N LENGTHS PER LINE.
- 4. BARS AT LONGITUDINAL CONSTRUCTION JOINT BETWEEN ADJACENT LANES OR LANE AND SHOULDER.

REINFORCING BAR SCHEDULE					
BAR	NO.	SIZE	LAP (MIN.)	LENGTH	SHAPE
bxx (E)	344	#7	4'-5"	28'-3"	
bxx (E)	410	#7	4'-5"	23"-6"	
axx (E)	250	#6		2'-6"	
axx (E)	25	#4		13'-9"	
axx (E)	75	#4		11'-9"	
axx (E)	25	#4		12'-9"	
axx (E)	25	#4		10'-9"	
OTAL REINFORCEMENT BARS, EPOXY COATED = XXXX LBS. (FOR INFORMATION ONLY)					

BILL OF MATERIALS					
PAY ITEM	SIZE	UNIT	TOTAL		
JT421397	CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT AND SHOULDER (SPECIAL) (14.25 IN.)	SQ. YD.			
	TIE BARS 3/4"	EACH			
42001300	PROTECTIVE COAT	SQ. YD.			
JT421976	PAVEMENT REINFORCEMENT (14.25 IN.)	SQ. YD.			

- ① CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT AND SHOULDER (SPECIAL) (14.25 IN.) (JT421397)
- PAVEMENT REINFORCEMENT (14.25 IN.) (JT421976)
- 3 SUBGRADE AGGREGATE 12 IN. (JT211A11) CAPPING AGGREGATE, 3" (THICKNESS VARIES UNDER SHOULDERS) POROUS GRANULAR EMBANKMENT, 9"
- 4 CHEMICALLY STABILIZED SUBGRADE, 9" (JT900580)
- 5 GRANULAR SUBBASE, SPECIAL (4" MIN.) (JT301010)

- PIPE UNDERDRAIN

DESIGN TABLE FOR MAINLINE CRC PAVEMENT REINFORCEMENT (#7 BAR SIZE)

LANE/SHOULDER WIDTH (FT.)	NO. OF BARS (EA.)	SPACING (IN.)
11	25	5 1/4
11.5	26	5 1/4
12	27	5 ¾
13	30	5 1/4
14	32	5 1/4

NOTE:

IF DESIGN VARIES FROM SAMPLE SHOWN, USE THE DESIGN TABLE ON THIS SHEET. DESIGNER SHALL REPLACE BAR MARK CALLOUTS DESIGNATED axx (E) THROUGH bxx (E) WITH ACTUAL BAR MARKS. DESIGNER SHALL REPLACE "M" CALLOUT WITH ACTUAL NUMBER OF BARS IN DIMENSION LINE.

NOTE TO DESIGNER

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MICROSTATION FILES AND THE "CADD STANDARDS MANUAL"

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BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO

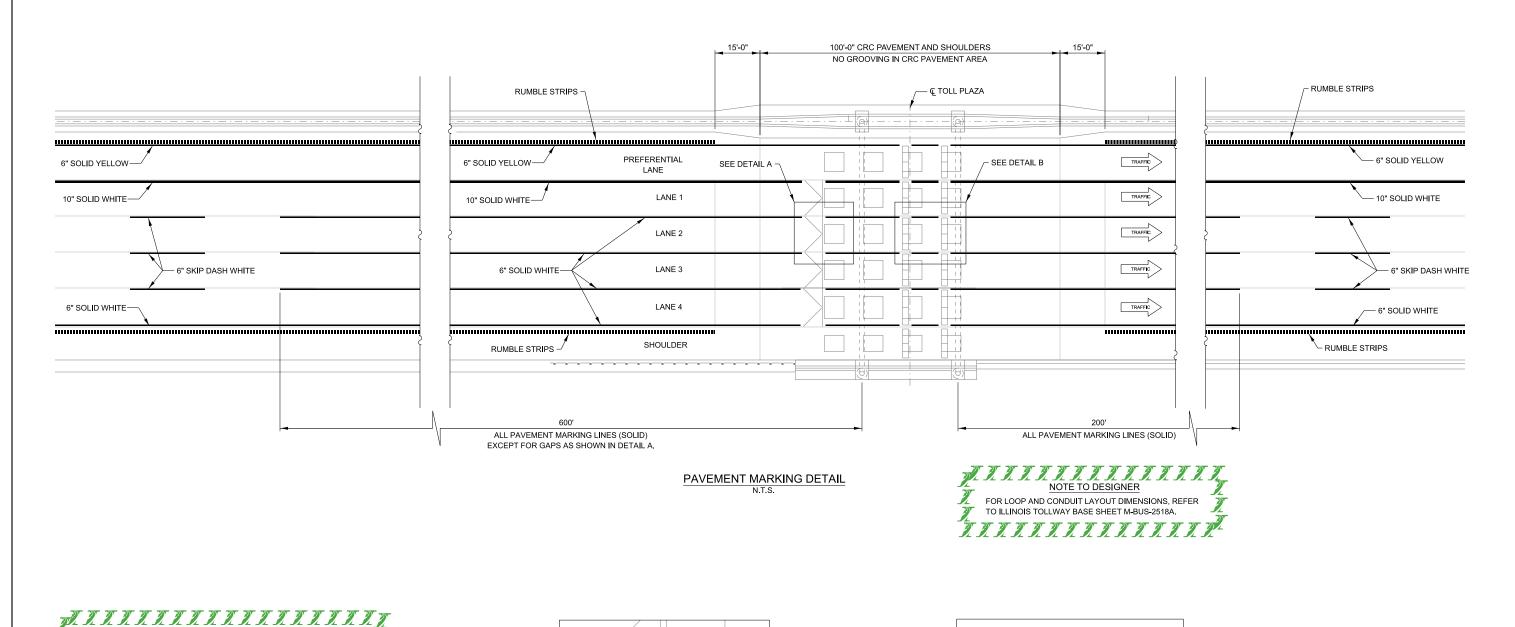
INSERTION OF THE SHEET INTO THE PLAN SET.

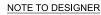


MAINLINE TOLL PLAZA PAVEMENT DETAILS

2 OF 3

VERSION: BASE SHEET:
2025-03 M-RDY-417





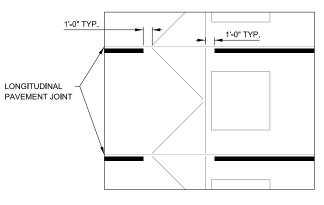
FOR SPACING BETWEEN PAVEMENT MARKING AND EDGE OF PAVED LANE, REFER TO ILLINOIS TOLLWAY STANDARD DRAWING D5.

FOR THE INSIDE SHOULDER WHEN PREFERENTIAL LANE IS NOT PRESENT, REFER TO ILLINOIS TOLLWAY STANDARD DRAWING D5.

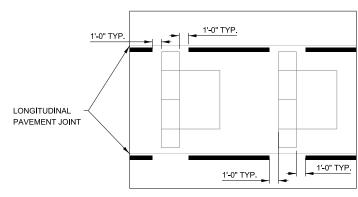
FOR MORE THAN FOUR LANES, REFER TO RDC MANUAL, ARTICLES 2.6.1
AND 2.6.2.

THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING, IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT.

MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.



DETAIL A
PAVEMENT MARKING IN THE
VICINITY OF PIEZO STRIPS

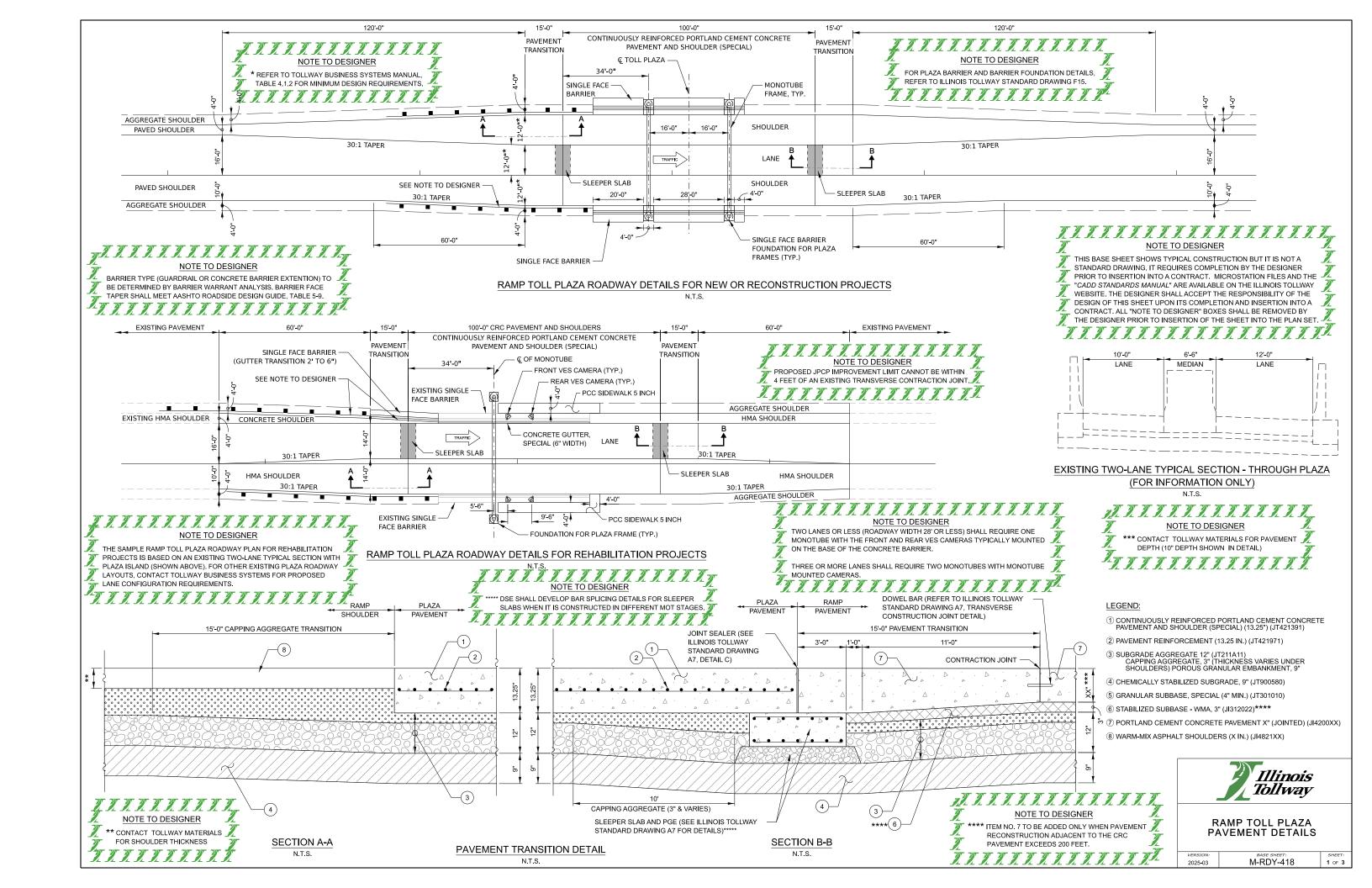


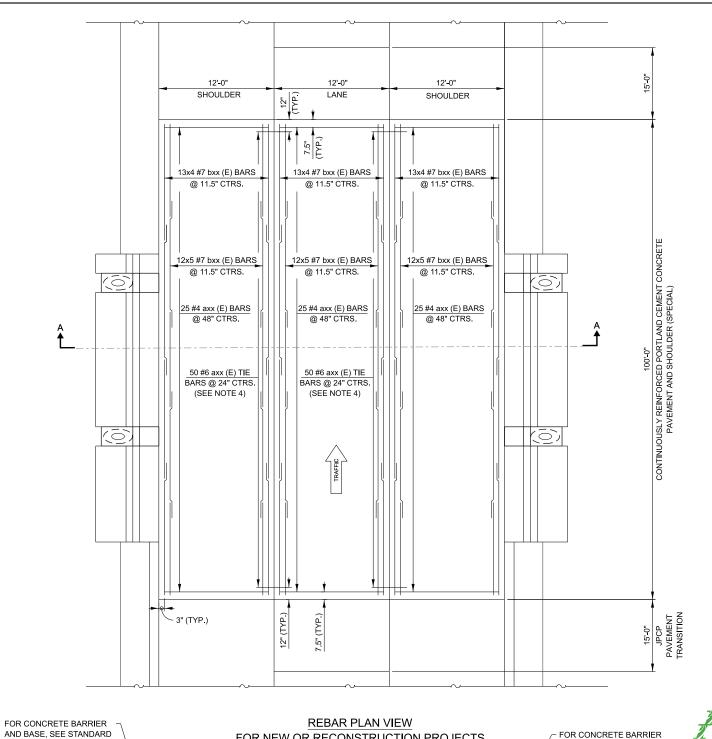
DETAIL B
PAVEMENT MARKING IN THE
VICINITY OF NARROW LOOPS



 VERSION:
 BASE SHEET:
 SHEET:

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 M-RDY-417
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FOR NEW OR RECONSTRUCTION PROJECTS

N.T.S.

12'-0" *

SHOULDER

-(2)

2.0%

- LONGITUDINAL

(TYP.)

CONSTRUCTION JOINT

12'-0" *

PGL

LANE

- axx (E) (TYP.)

3" (TYP.)

2.0%

SECTION A-A

NTS

12'-0" *****

SHOULDER

- bx (E) (TYP.)

– bxx (E) (TYP.)

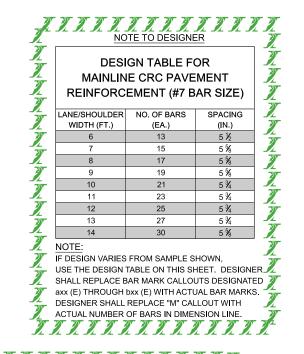
DRAWING F15 FOR DETAILS

** GUTTER SLOPE

(TYP.)

REINFORCING BAR SCHEDULE					
BAR	NO.	SIZE	LAP (MIN.)	LENGTH	SHAPE
bxx (E)	156	#7	4'-5"	28'-3"	
bxx (E)	180	#7	4'-5"	23"-6"	
axx (E)	100	#6		2'-6"	
axx (E)	75	#4		11'-9"	
OTAL REINFORCEMENT BARS, EPOXY COATED = XXXX LBS. (FOR INFORMATION ONLY)					

BILL OF MATERIALS					
PAY ITEM	SIZE	UNIT	TOTAL		
JT421391	CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT AND SHOULDER (SPECIAL)(13.25 IN.)	SQ. YD.			
	TIE BARS 3/4"	EACH			
42001300	PROTECTIVE COAT	SQ. YD.			
JT421971	PAVEMENT REINFORCEMENT (13.25 IN.)	SQ. YD.			



NOTE TO DESIGNER * REFER TO TOLLWAY BUSINESS SYSTEMS MANUAL TABLE 4.1.2 FOR MINIMUM DESIGN REQUIREMENTS. * GUTTER SLOPE SHALL BE REVERSE PITCHED WHEN THE ADJACENT SHOULDER DRAINS AWAY FROM THE GUTTER.

*** CONTACT TOLLWAY MATERIALS FOR FILL TYPE AND DEPTH WHEN ADJACENT TO EXISTING PAVEMENT. NUNUUNUUNUUNUUN

LEGEND:

AND BASE, SEE STANDARD

DRAWING F15 FOR DETAILS

- MATERIAL FILL TYPE

AND DEPTH **

UNDERDRAIN

- CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT AND SHOULDER (SPECIAL) (13.25 IN.) (JT421391)
- PAVEMENT REINFORCEMENT (13.25 IN.) (JT421971)
- SUBGRADE AGGREGATE 12" (JT211A11) CAPPING AGGREGATE, 3" (THICKNESS VARIES UNDER SHOULDERS) POROUS GRANULAR EMBÄNKMENT, 9"
- CHEMICALLY STABILIZED SUBGRADE, 9" (JT900580)
- GRANULAR SUBBASE, SPECIAL (4" MIN.) (JT301010)

NOTES:

- REINFORCING BARS DESIGNATED "E" SHALL BE EPOXY COATED.
- REFER TO SPECIAL PROVISION FOR THE CLASS OF CONCRETE TO BE USED.
- BARS INDICATED THUS MxN #7 ETC. INDICATES M LINES OF BARS WITH N
- BARS AT LONGITUDINAL CONSTRUCTION JOINT BETWEEN ADJACENT LANES OR LANE AND SHOULDER.

TARARARARARAR_ARARARA

THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. _ MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET. TRARARARARARA



RAMP TOLL PLAZA PAVEMENT DETAILS

2025-03

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M-RDY-418

