Illinois Tollway Base Sheet Revisions

ion M Base She	et Drawings	
Drawin	g Modification Summary	Effective: 03-01-2024
	Roadway (RDY)-Series 400
M-RDY-4	D7 EARTHWORK AND GUARDRAIL SCH	EDULE, SHEETS 1 and 2
Sheet 1	Clarified note 7 in 'NOTES TO DESIGNE	R' and note 8 in 'NOTES' sections.
Sheet 1 8	2 Added pay item JT202007 for "Allowance	e for Testing Unclassified Soil".
Sheet 1 8	2 Deleted pay item JT202006 and revised	Testing of Unclassified soil' to 'Unclassified soil'.
Sheet 2	Added contract allowance JT202007 foo	note for 'Bill of Material summary table'.
M-RDY-4	10 PRECAST APPROACH SLAB W/CIP T	RANSITION SLAB, SHEETS 3 and 4
Sheet 3	Changed the note 8 to require fanned ba	rs if skew angle is greater than 25° instead of 45°
Sheet 4	Changed the callout for forms to require	2" thick foam sheet instead of 1/4" backer rod (detail H)
	Specified the 6" extension of forms beyo	nd the UHPC joint (detail H)
M-RDY-4	15 LONGITUDINAL JOINT SEALANT	
	Added a new figure and 'NOTE TO DES SURFACE THICKNESSES'	GNER' for 'TYPICAL LJS PLACEMENT - UNEQUAL
M-RDY-4	16 ENVIRONMENTAL SOIL CLASSIFICAT	
	Added new note in 'NOTE' section regard	ding soil types.
M-RDY-4	I7 MAINLINE TOLL PLAZA PAVEMENT D	ETAILS
Sheet 1	Added a call-out and 'NOTE TO DESIGN	IER' for PCC Sidewalk.
Sheet 2	Clarified concrete barrier call out in Secti	on A-A.
M-RDY-4		NI S
Sheet 2	Added a call-out and a note in 'NOTE TO when adjacent to existing pavement.	DESIGNER' regarding material fill type and depth
	Clarified concrete barrier call out in Secti	on A-A.



Retired Standard







2023-03

M-RDY-400



RAMP-2 LANES

SUPERELEVATION LEFT

















THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. 1 _ MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE 1 DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGNER SHALL ACCEPT UPON ITS COMPLETION AND 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. 1 Ŧ*ĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸ*ĸĸĸĸ



NORMAL CROWN



LOOP RAMP SUPERELEVATION RIGHT



ROADWAY TYPICAL SECTIONS - GROUP B

2023-03

M-RDY-401



WITH GUARDRAIL



AGGREGATE
SHOULDER
(NOTE 2)



GUTTER, TYPE G-3



WITH GUARDRAIL



AGGREGATE SHOULDER WITH GUARDRAIL (NOTE 2)



GUTTER, TYPE G-2



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.





ROADWAY TYPICAL SECTIONS - GROUP D

2020-03

standard: M-RDY-403

1 OF 1





SIDESLOPES HIERARCHY														
(IN ORDER (OF PREFERE	NCE FOR I	FILL SECTION)											
FORESLO	OPE ***	DITCH	BACKSLOPE											
1	2	(MIN.)	5,101102-01-2											
1:6 OR		<i>\</i> /'	1:4 OR											
FLATTER FLATTER														
1:6 1:4 4' 1:4 1:6 1:4 4' 1:3														
1:6 1:4 4' 1:3														
1:6 1:3 4' 1:3 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											
REFE	R TO RDC ART	ICLE 2.6.8 *	** ***											

FOR DESIGN REQUIREMENTS



ACCEPTABLE FILL SECTION FILL ≥ 9" (CLEAR ZONE UNDEFINED)

NOTES:

- ALL SLOPES ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENTS TO 1. UNITS OF HORIZONTAL DISPLACEMENTS (V:H).
- SLOPE SHALL BE 1:6 OR FLATTER BEHIND GUTTER WITHOUT GUARDRAIL; IN 2. ALL OTHER CASES THE MAXIMUM SLOPE SHALL BE 1:4. IF 1:4 SLOPE IS USED, INCREASE WIDTH BASED ON CLEAR ZONE REQUIREMENTS.
- FORESLOPE 2 (SEE THE SIDESLOPES HIERARCHY TABLE) STEEPER THAN з. 1:3 USED FOR THE LOWER SLOPE ON A BARN-ROOF SECTION REQUIRES A DESIGN DEVIATION.
- 4. 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.
- 6. CAN BE OMITTED WHEN EXISTING GROUND SLOPES AWAY FROM R.O.W. LINE.
- 7. MINIMUM DITCH DEPTH SHALL FOLLOW DRAINAGE DESIGN MANUAL. DESIGNER SHALL MEET CRITERIA FOR DESIGN WATER SURFACE ON TABLE 6.1 AND ADEQUATELY DRAIN SUBBASE.

NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND W 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.







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.
- THE STABILIZED WORK ZONE SHOULD ACCOUNT FOR THE PAVER TRACK AND SHOULD BE NOTED IN 2. 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.

ŢĨĨĨĨĨĨĨĨĨĨĨĨĨĨĨĨĨĨĨ NOTE TO DESIGNER Ż 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" Ŋ Ŋ ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE ZERON OF THIS SHEET UPON ITS COMPLETION AND Ż INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" X

 INDERTINATION OF THE SHEET INTO THE PLAN SET.
 INSERTION OF THE SHEET INTO THE PLAN SET.

 INSERTION OF THE SHEET INTO THE PLAN SET.
 INSERTION OF THE SHEET INTO THE PLAN SET.





ROADWAY TYPICAL SECTIONS - GROUP F

2020-03

M-RDY-405



				EARTHWORK VOL	UMES (CUYD)			
	A	В	С	D	E	F (SEE NOTE 3)	G	H (SEE NOTE 3)
LOCATION	EARTH EXCAVATION	ROCK EXCAVATION	UNSUITABLE MATERIAL	STRUCTURE EXCAVATION	UNSUITABLE MATERIAL FOR STRUCTURES	SUITABLE EXCAVATION (adjusted for	EMBANKMENT	EARTHWORK BALANCE EXCESS (+) or
	20200100	20200200	20201200	50200100	50200450	shrinkage %)		SHORTAGE (-)
				STAGE	É1			
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								

IEPA APPROVED GROUNDWATER ORDINANCE

ORDINANCES (DSE TO LIST MUNICIPALITIES)

CALCULATIONS

SHRINKAGE

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

APPROVED GROUNDWATER ORDINANCE

H=F-G

DISPOSAL

EARTHWORK SCHEDULE OF QUANTITIES

				ENVIRONMENTAL CLASSIFICATION (CUYD)											
	11	J1	K1	L1	M1	N1	01	P1	Q1	R1	S1	T1	U1	EE1	5. "SOILS NOT APPROVED" SHALL NOT BE REU DISPOSAL TYPE 1 (TYPE 1) OR AS ASSOCIATE
LOCATION	C: S	OILS APPRO	DVED FOR R	EUSE	B: SOILS	APPROVED	WITH REST	RICTIONS	A: SOII	LS NOT APP	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															7. WHEN THERE IS EXCESS SOIL APPROVED F
500+00 to 600+00															ENVIRONMENTAL SOILS TYPE 1 TO MINIMIZE
RAMP A															-
RAMP C															8. SOIL QUANTIFIED AS UNCLASSIFIED SOIL S
STAGE 1 TOTAL															SEPARATE QUANTITY OF ONLY UNCLASSIFIED
			•				STAGE 2								ALLOWANCE J1202007 WILL BE USED PER TOI
400+00 to 500+00															9 WHEN STOCKPILING SOIL ANY PLACEMENT
500+00 to 600+00															MANAGED AS THE MOST RESTRICTIVE DISPO
RAMP A															
RAMP C															SUBGRADE AGGREGATE
STAGE 2 TOTAL															
															10. SUBGRADE AGGREGATE SHALL BE MANAG
TOTAL															

NOTES TO DESIGNER

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 | 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 JT202007 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 VARICUS 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 14 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

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 (JI204005). THIS SHOULD BE EVALUATED ON A PROJECT SPECIFIC BASIS.

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

2. "SOILS APPROVED WITH RESTRICTION' CAN BE REUSED IN THE FOLLOWING MUNICIPALITIES WITH IEPA APPROVED GROUNDWATER

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

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.

> JSED ON THE ILLINOIS TOLLWAY ROW AND SHALL BE DISPOSED OF AS NON-SPECIAL WASTE, ED WORK PAY ITEM (TYPES 2 THROUGH TYPE 4) OR INCLUDED IN THE COST OF THE ASSOCIATED

AT CANNOT BE REUSED WITHIN THE PROJECT MUST BE REMOVED AS EITHER NON-SPECIAL WASTE 1 (TYPES 2 THROUGH TYPE 4) OR INCLUDED IN THE COST OF THE ASSOCIATED WORK PAY ITEM.

OR REUSE OR APPROVED FOR REUSE WITH RESTRICTION, THE CONTRACTOR SHALL FIRST REUSE THE VOLUME OF MATERIAL DISPOSED AT A NON-SPECIAL WASTE DISPOSAL FACILITY.

HALL BE MANAGED AS TYPE 1A AND HAS BEEN INCLUDED IN THE QUANTITY FOR TYPE 1A. A SOIL IS ALSO PROVIDED. IF THE CONTRACTOR CHOOSES TO TEST THIS MATERIAL, CONTRACT LLWAY SP FOR "ALLOWANCE FOR TESTING UNCLASSIFIED SOIL"

FOF MULTIPLE REUSE OR DISPOSAL TYPES WITHIN THE SAME STOCKPILE SHALL THEREAFTER BE SAL AND REUSE TYPE INCLUDED IN THE STOCKPILE.

GED AS TYPE 4C.

NOTES TO DESIGNER

THIS BASE SHEET SHOWS TYPICAL NEW 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 AVAILABE 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

EARTHWORK SCHEDULE

EARTHWORK SCHEDULE O	F TOPSOIL QUANT	ITIES														
	EARTH	WORK VOLUMES (CUYD)									ENVIRONMENT	AL CLASSIFIC	ATION (CUYD)			
	V	W (SEE NOTE 3, SHEET 1)	х	Y	12	J2	K2	L2	M2	N2	02	P2	Q2	R2	S2	
LOCATION	TOPSOIL STRIPPING	SUITABLE TOPSOIL	TOPSOIL PLACEMENT	TOPSOIL BALANCE Excess (+) or	С	SOILS APPRO	VED FOR REU	SE	B: SO	ILS APPROVED	WITH RESTRIC	CTIONS	A: 5	OILS NOT APPI	ROVED FOR R	EUSE
				Shortage (-)	TYPE 1	TYPE 2	TYPE 3	TYPE 4	TYPE 1	TYPE 2	TYPE 3	TYPE 4	TYPE 1	TYPE 2	TYPE 3	TY
								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																

EARTHWORK SCHEDULE C	F INCIDENTAL	QUANTITIES																
	EARTHWOR	K VOLUMES (CUY	′D)							EN	VIRONMENT	AL CLASSIFIC	ATION (CUYI	D)				
	z	AA	BB	сс	13	J3	КЗ	L3	M3	N3	03	P3	Q3	R3	S3	тз	U3	EE3
LOCATION	STORM	ITS			C: S	OILS APPRO	VED FOR RE	USE	B: SOILS	APPROVED	WITH RESTR	RICTIONS	A: SO	LS NOT APPE	ROVED FOR F	REUSE	HAZARDOUS WASTE	UNCLASSIFIED SOIL
	TRENCH	EXCAVATION	(FILL IN TYPE)	(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	
								STAG	E 1									
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 SCHEDULE O	F PERFORMANCE I	BASED RETAIN	IING WALLS QU	IANTITIES													
EARTHWORK VOLU	MES (CUYD)						E	NVIRONMENT/	AL CLASSIFICA	TION (CUYD)							
	DD	14	J4	K4	L4	M4	N4	04	P4	Q4	R4	S4	T4	U4	EE4		
LOCATION	RETAINING WALL	с	: SOILS APPRO	VED FOR REU	SE	B: SOI	LS APPROVED	WITH RESTRIC	CTIONS	A: S	OILS NOT APP	ROVED FOR RE	EUSE	HAZARDOUS WASTE	UNCLASSIFIED SOIL		
	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

DILL OF MATLINA	- JONNMART 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 JT202007 WILL BE USED PER TOLLWAY SP FOR "ALLOWANCE FOR TESTING UNCLASSIFIED SCIL".

2	U2	EE2
	HAZARDOUS WASTE	UNCLASSIFIED SOIL
Ξ4	JT669020	

EARTHWORK SCHEDULE

version: 2024**-**03

M-RDY-407

SHEET: 2 OF 4

					NON SPECIAL W	ASTE (NSW) DISPOSAL TYPE	1								
		EARTHWORK + IN	CIDENTAL (STEP 1)			TOPSOIL	(STEP 2)		STEP 3 (STEP 1 + STEP 2)						
LOCATION	WITH IEPA GROUNDWATE	APPROVED R ORDINANCE	WITHOUT IEPA APPROVED GROUNDWATER ORDINANCE		WITH IE GROUNDW	WITH IEPA APPROVED W GROUNDWATER ORDINANCE GR			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	11					
						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															
	ł					· ·		*							
TOTAL															

NOTES:

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

<u>With IEPA Approved groundwater ordinance</u> If the sum of Type 1 approved (I1) and approved with restriction (M1) adjusted for shrinkage is:

Greater than embankment (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 = (12+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 If Type 1 approved (I2) is:

Greater than Topsoil Placement (X) quantity, then Non Special Waste Disposal, Type 1 = (12)-X + Q2+M2 (Column 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 (Column 10)

Total NSW Disposal, Type 1 = NON-SPECIAL WASTE DISPOSAL, TYPE 1 = Column 9 + Column 10

							GL	ARDRAIL SCH	EDULE							
			APPI	ROACH TERM	INAL			GUARDR	AIL TYPE			DEPA	ARTURE TERM	IINAL	REFLECTORS	MARKERS
			TRAFFIC	TRAFFIC	TRAFFIC	GALVANIZED	GALVANIZED	GALVANIZED	GALVANIZED	GALVANIZED	GALVANIZED	TRAFFIC	TRAFFIC	TRAFFIC	GUARDRAIL	TERMINAL
			BARRIER	BARRIER	BARRIER	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	BARRIER	BARRIER	BARRIER	BARRIER	MARKER -
			TERMINAL	TERMINAL	TERMINAL	PLATE BEAM	PLATE BEAM	PLATE BEAM	PLATE BEAM	PLATE BEAM	PLATE BEAM	TERMINAL	TERMINAL	TERMINAL	REFLECTORS,	DIRECT
STATION	STATION		TYPE T1	TYPE T1-A	TYPE T10	GUARDRAIL	GUARDRAIL	GUARDRAIL	GUARDRAIL	GUARDRAIL	GUARDRAIL	TYPE T2	TYPE T6	TYPE T6B	TYPE B	APPLIED
STATION	STATION	OFFSET	(SPECIAL)	(SPECIAL)		TYPE A,	TYPE A,	TYPE B,	TYPE B,	TYPE C,	TYPE C,					
FROM	10		TANGENT			6 FOOT	9 FOOT	6 FOOT	9 FOOT	6 FOOT	9 FOOT					
						POSTS	POSTS	POSTS	POSTS	POSTS	POSTS					
			JI631110	JI631112	JS631140	JS630002	JS630004	JS630007	JS630009	JS630012	JS630014	JS631120	JS631130	JS631135	JS782014	JS725000
			EACH	EACH	EACH	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH
1000+00.00	1002+00.00	RT	1			200.0						1				
1005+00.00	1008+37.50	RT	1			300.0		12.5		25.0			1			
1010+00.00	1011+50.00	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		
	TOTAL	1	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

version: 2024-03

standard: M-RDY-407 SHEET: 4 OF 4

BILL OF MATERIAL FOR APPROACH AND TRANSITION SLABS

BAR	NO.	SIZE	LEN	IGTH		SHAPE
axx (E)						
axx (E)						
bxx (E)		#9	32	?'-0"		\square
bxx (E)		#9	19	9'-0"		\square
bxx (E)		#9				
dxx (E)	_	#5	8	-2"		
t(E)		#4	5	-8"		
w(E)		#5				
PAY ITEM NO.	DI	ESCRIPTIO	N	UNIT		QUANTITY
50300260	BRIDGE GROOVI	BRIDGE DECK GROOVING) .	
50300300	PROTEC	PROTECTIVE COAT			э.	
J I 420040	BRIDGE SLAB	APPROACH	ł	SQ. YE	Э.	
J l 420041	TRANSIT SLAB	ION APPRO	DACH	SQ. YE	э.	
J I 420046	TRANSIT	ION APPRO ER SLAB	DACH	SQ. YE	Э.	
JS503160	DIAMON SURFAC FOR BRI	D GRINDING E SMOOTH DGE SECTI	G AND NESS ONS	SQ. YE).	
JT421510	SLEEPER	SLEEPER SLAB			э.	
JT525130	BONDED	BONDED PREFORMED JOINT SEAL, 3 IN.				
X5030250	BRIDGE (LONGIT	DECK GRO UD I NAL)	oving	SQ. YE	Э.	
*	REINFOR	RCEMENT E	ARS,	LBS.		

* FOR INFORMATION ONLY

BILL OF MATERIAL FOR BARRIERS									
BAR	NO.	SIZE	LENGTH		SHAPE				
dxx (E)		#5		7'-0"					
exx (E)									
PAY ITEM NO.	DE	DESCRIPTION			QUANTITY				
50300255	CONCRE SUPERS	CONCRETE SUPERSTRUCTURE							
50300300	PROTEC	PROTECTIVE COAT							
50800205	REINFOR	REINFORCEMENT BARS, EPOXY COATED							

APPROACH SLAB, MAINLINE

2023-03

M-RDY-408

BILL OF MATERIAL FOR APPROACH AND TRANSITION SLABS

BAR	NO.	SIZE	LENGTH	SHAPE
axx (E)				
axx (E)				
bxx (E)		#9	32'-0"	
bxx (E)		#9	19'-0"	\bigcup
bxx (E)				
dxx (E)		#5	8'-2"	۵_
t(E)		#4	5'-8"	
w(E)		#5		

PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
50300260	BRIDGE DECK GROOVING	SQ. YD.	
50300300	PROTECTIVE COAT	SQ. YD.	
J I 420040	BRIDGE APPROACH SLAB	SQ. YD.	
JI420041	TRANSITION APPROACH SLAB	SQ. YD.	
J I 420046	TRANSITION APPROACH SHOULDER SLAB	SQ. YD.	
JS503160	DIAMOND GRINDING AND SURFACE SMOOTHNESS FOR BRIDGE SECTIONS	SQ. YD.	
JT421510	SLEEPER SLAB	SQ. YD.	
JT525130	BONDED PREFORMED JOINT SEAL, 3 IN.	FT.	
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ. YD.	
*	REINFORCEMENT BARS, EPOXY COATED	LBS.	

* FOR INFORMATION ONLY

BILL OF MATERIAL FOR BARRIERS									
BAR		NO.	SIZE	LENGTH			SHAPE		
dxx (E)			#5	6'-	-10"				
exx (E)									
PAY ITEM NO.		DES	SCRIPTION	I	UNIT		QUANTITY		
50300255	CON SUP	ICRETE ERSTR		CU. YE).				
50300300	PRC	PROTECTIVE COAT).			
50800205	RE l î EPC	NFORC	EMENT BAR ATED	LBS.					

APPROACH SLAB, RAMP

FABRICATION GENERAL NOTES:

MATERIALS

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

- ALL EMBEDDED LIFTING HARDWARE USED SHALL BE GALVANIZED. 2.
 - A. FOR LIFTING INSERTS, INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S C. SIZE AND LOCATION OF GROUT PORTS, LIFTING ANCHORS, AND GROUT SEAL SPECIFICATION INCLUDING MINIMUM EDGE DISTANCE AND SPACING REQUIREMENTS. UNLESS GASKETS. COMPRESSIVE STRENGTH AT 28 DAYS AND AIR CONTENT OF CONCRETE. THE CONTRACTOR AND FABRICATOR WILL BE USING A LIFTING BEAM OR ROLLING SHEAVE TO D. ENSURE THAT EACH OF THE FOUR INSERTS WILL SHARE THE LOAD FOURLY TWO OF THE FOUR INSERTS SHALL BE CAPABLE OF CARRYING THE TOTAL LOAD WITH A 4:1 SAFETY FACTOR WHILE DATE OF PRODUCTION; AND FOR EACH CUSTOM SLAB TO INCLUDE CONTRACT ADJUSTING FOR THE ANGLE OF THE CABLES AND THE STRENGTH OF THE CONCRETE OVER NUMBER AND MARK NUMBER OF THE SLAB. TIME. THE INSERT SHOULD BE RECESSED A MINIMUM OF 11/2" UNLESS THE SLAB IS TO BE WEIGHT OF EACH SLAB. G. OVERLAID IMMEDIATELY AFTER PLACEMENT. THE INSERT SHALL LEAVE A MAXIMUM $1^{\rm 1}\!4"$ 9. PERFORM A PRE-POUR INSPECTION OF THE FORMS TO CONFIRM THAT THEY ARE DIAMETER THREADED HOLE TO BE GROUTED AFTER SLAB INSTALLATION. IF THE INSERT IS ASSEMBLED IN ACCORDANCE WITH THE FOLLOWING TOLERANCES: INSTALLED WITH A FULL SLAB PENETRATION, THE LIFTING INSERT CAN BE USED AS A BEDDING LENGTH AND WIDTH ± GROUT PORT AT THE CONTRACTOR'S DISCRETION.

10

- 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 USE 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 3 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, 5. 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 BE 4,500 PSI
- POLYETHYLENE SHEET BOND BREAKER MATERIAL: PROVIDE LOW DENSITY POLYETHYLENE SHEET 7. 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.
- 9 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 THAN 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:

THE FARRICATION AND INSTALLATION OF A NON-GENERIC TOLLWAY APPROVED PRECAST SYSTEM SHALL BE 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

CONNECTED AND GROUTED TO ADJACENT PAVEMENT.

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

FABRICATION

- PREPARE WORKING DRAWINGS THAT SHALL INCLUDE THE FOLLOWING INFORMATION: SLAB LAYOUT DRAWING FOR TYPICAL SLABS TO BE FABRICATED, WITH ACCURATE DIMENSIONS CITED
- В. REINFORCEMENT SIZES, SPACING, NUMBER OF MATS, AND METHOD OF MAINTAINING
- CONCRETE COVER

- CONCRETE CURING METHOD TO BE USED. MARKING LEGEND FOR EACH SLAB TO INDICATE PRECAST MANUFACTURER, AND

- 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 ALL TOP EDGES OF THE SLAB.
- THE EXPOSED SURFACES OF ALL PREFORMED SLOTS FOR DOWEL BARS SHALL BE 11 SANDBLASTED. PLASTIC SLEEVES FOR ANCHOR BOLTS. GROUT PORTS SHALL BE CAST $\frac{1}{4}$ " OWER 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. 13. SHOP DRAWINGS SHALL BE REQUIRED FOR ALL SLABS.

SITE CASTING AND DEMONSTRATION PANEL FIT:

- 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 CORVERS 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 REMEDIED

- 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
- 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

PRECAST APPROACH SLAB WITH CIP TRANSITION SLAB

2024-03

DIMENSIONS SHALL CONFORM WITH APPROACH ROADWAY. APPROACH SLAB SHOULDER WIDTH SHOULD BE ROADWAY SHOULDER WIDTH +1'-0" FOR GUARDRAIL OR +2'-0" FOR SINGLE FACE BARRIER SO APPROACH ROADWAY FLOW LINE MATCHES BARRIER BASE. INCREASE BY $\frac{1}{4}$ " FOR SMOOTHNESS GRINDING アオオオオオオオオオオオオオオオオオオ NOTE TO DESIGNER USE #7 axx (E) HOOKED BARS AT 5" SPACING FOR TOP TRANSVERSE BARS OVER SHOULDER WHEN THE BARRIER HEIGHT IS 72". アオオオオオオオオオオオオオオオオオ ** BAR dxx (E) IS CAST IN PRECAST APPROACH SLAB BRIDGE PARAPET SHALL BE CAST IN PLACE AFTER PRECAST SLABS ARE SET. SEE SHEET 1 OF THIS SERIES FOR GENERAL NOTES. SEE SHEET 2 OF THIS SERIES FOR FABRICATION NOTES. THE DIMENSION t IS THE FINAL THICKNESS OF THE CIP TRANSITION APPROACH SLAB AS DEFINED IN THE ROADWAY COORDINATE NEED FOR 2" PVC CONDUIT WITH ELECTRICAL AND ITS PLANS, CONDUIT SHALL BE PLACED TO MISS REINFORCEMENT. DO NOT CUT REINFORCEMENT BARS. 4. THE THICKNESSES OF STABILIZED SUBBASE, SUBGRADE AGGREGATE AND CHEMICALLY STABILIZED SUBGRADE SHALL MATCH THE ADJACENT ROADWAY PAVEMENT SECTIONS. TILT HOOK OF #9 BARS FOR MINIMUM 21/4" CLEARANCE. USE 2'-0" MIN. LAP FOR #4 BARS. USE 2-6" MIN. LAP FOR #5 BARS. USE 3'-0" MIN. LAP FOR # 6 BAR. 7. FOR ALL SLABS OF SKEWED SHAPE, REINFORCEMENT SHALL BE LAID OUT IN A PERPENDICULAR GRID PATTERN, NOT SKEWED, EXCEPT FOR EDGE BARS AS SHOWN FOR PRECAST SLAB CORNERS WITH SKEW ANGLE GREATER THAN 25 DEGREE, PROVIDE 5 #6 BARS, 11'-8" LONG DIRECTLY UNDER THE TOP LAYER OF BARS IN A FANNED ARRANGEMENT PRECAST APPROACH SLAB BAR LIST FOR INFO ONLY

	axx (E)	
	axx (E)	
	axx (E)	
	bxx (E)	
	bxx (E)	
	bxx (E)	
► ' '•	bxx (E)	

PRECAST APPROACH SLAB WITH CIP TRANSITION SLAB

SIZE

#5

#5 #6

#8 #5

#6 #9

#9

#5

LENGTH

29'-8"

24'-6"

32'-2"

8'**-**2"

SHAPE

 \subseteq

	BILL OF MATERIAL FOR PRECAST BRIDGE APPROACH SLABS									
	PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY						
**	50300260	BRIDGE DECK GROOVING	SQ. YD.							
	50300300	PROTECTIVE COAT	SQ. YD.							
	52000110	PREFORMED JOINT STRIP SEAL	FT.							
	JS503160	DIAMOND GRINDING AND SURFACE SMOOTHNESS FOR BRIDGE SECTIONS	SQ. YD.							
	JT301010	GRANULAR SUBBASE, SPECIAL	CU. YD.							
	JT421510	SLEEPER SLAB	SQ. YD.							
	JT504118	UHPC JOINT HEADERS	CU. FT.							
	JI420070	PRECAST CONCRETE BRIDGE APPROACH SLABS	SQ. FT.							
**	X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ. YD.							
	*	REINFORCEMENT BARS, EPOXY COATED	LBS.							
	*	UHPC CONCRETE	CU. YD.							

BILL OF MATERIAL FOR CIP TRANSITION APPROACH SHOULDER AND CIP TRANSITION APPROACH SLAB

						-	
BAR		NO.	SIZE	LENG	ЭТΗ		SHAPE
axx (E)							
axx (E)							
bxx (E)			#9	19'-	0"		
bxx (E)							
dxx (E)			#5	8'-2	2"		۵_
fxx (E)			#5				
gxx (E)			#5	3'-6	8"		
t(E)			#4	5'-8	3"		
w(E)			#5				
PAY ITEM NO.		DESCRIPTION				т	QUANTITY
50300260	BR	IDGE	DECK GROO	VING	SQ. Y	ſD.	
50300300	PR	OTEC	FIVE COAT		SQ.`	ſD.	
J I 420041	TR SL	TRANSITION APPROACH SLAB				۲D.	
J I 420046	TR SH	ANSIT	ION APPROA	ACH	SQ.`	ſD.	
JS503160	DI/ SU FC	DIAMOND GRINDING AND SURFACE SMOOTHNESS FOR BRIDGE SECTIONS				ſD.	
JT421510	SL	SLEEPER SLAB				۲D.	
JT525130	BC SE	BONDED PREFORMED JOINT SEAL, 3 IN.			FT	•	
X5030250	BR (LC	IDGE I DNGITU	DECK GROO JDINAL)	VING	SQ. `	ſD.	
*	RE	INFOR	CEMENT BA	ARS,	LBS	6.	

* FOR INFORMATION ONLY

BILL OF MATERIAL FOR CIP BARRIERS								
BAR	NO.	SIZE	LENGTH			SHAPE		
dxx (E)		#5	7'-0	"	i			
exx (E)		#4						
PAY ITEM NO.		DESCRIPTION				QUANTITY		
50300255	CONCRE	CONCRETE SUPERSTRUCTURE						
50300300	PROTEC	TIVE COAT	SQ.	YD.				
50800205	REINFO	RCEMENT B/ COATED	ARS,	LB	S.			

Z

X

1'-2"

PRECAST APPROACH SLAB WITH CIP TRANSITION SLAB

NOTES:

- DIRECTION.
- CONCRETE BARRIER.

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

3. CONCRETE BARRIER SHALL BE PINNED TO BARRIER BASE BY PAIRS OF 12" TIE BARS AT 30" CENTERS IN THE LAST 30' OF THE

2 THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" 1 X ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSTIE. 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. Ĭ X

EMERGENCY TURNAROUND MEDIAN WIDTH ≥ 35 FT

version: 2022-03

M-RDY-411

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 DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGNER SHALL BE REMOVED BY THE DESIGNER PRIOR TO 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. Ż X Ĭ Ĭ

EMERGENCY TURNAROUND MEDIAN WIDTH < 35 FT

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SHEET: 4 OF 4

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

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.

> FIGURE 2 **TYPICAL LJS PLACEMENT -**ASPHALT WIDENING

Z

X

** 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 JOINT SEALANT SCHEDULE OF QUANTITIES								
	NUMB JOII	ER OF NTS						
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								
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.

THIS TABLE SHALL BE ADDED TO THE SCHEDULE OF $\,\mathbb Z\,$ QUANTITIES AND REMOVED FROM THIS SHEET.

LONGITUDINAL JOINT SEALANT

2024-03

REINFORCEMENT 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 LENGTHS PER LINE.

BARS AT LONGITUDINAL CONSTRUCTION JOINT BETWEEN ADJACENT LANES OR LANE AND SHOULDER

REINFORCING BAR SCHEDULE								
NO.	SIZE	LAP (MIN.)	LENGTH	SHAPE				
344	#7	4'-5"	28'-3"					
410	#7	4'-5"	23"-6"					
250	#6		2'-6"					
25	#4		13'-9"					
75	#4		11'-9"					
25	#4		12'-9"					
25	#4		10'-9"					

TOTAL REINFORCEMENT BARS, EPOXY COATED = XXXX LBS. (FOR INFORMATION ONLY)

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

Ż **DESIGN TABLE FOR** Ĭ Ĭ Ĭ X MAINLINE CRC PAVEMENT X **REINFORCEMENT (#7 BAR SIZE)** N N オオオオ LANE/SHOULDER NO. OF BARS SPACING WIDTH (FT.) (EA.) (IN.) Ĭ Ĭ 11 25 5 ¼ 11.5 26 5 % 12 27 5 % 7 13 30 5 1/4 X X 14 5 1/4 32 20 NOTE: TF DESIGN VARIES FROM SAMPLE SHOWN, USE THE **W** DESIGN TABLE ON THIS SHEET. DESIGNER SHALL 2 - 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. Illinois Tollway MAINLINE TOLL PLAZA Z **PAVEMENT DETAILS** 2024-03 M-RDY-417 2 OF 3

TRATATATATAT NOTE TO DESIGNER

NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY MICROSTATION FILES AND THE "CADD STANDARDS MANUAL"

NTS

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.			

LEGEND:

- (1) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT AND SHOULDER (SPECIAL) (13.25 IN.) (JT421391)
- 2 PAVEMENT REINFORCEMENT (13.25 IN.) (JT421971)
- 3 SUBGRADE AGGREGATE 12" (JT211A11) CAPPING AGGREGATE, 3" (THICKNESS VARIES UNDER SHOULDERS) POROUS GRANULAR EMBANKMENT, 9"
- ④ SUBGRADE FILTER FABRIC (JI282010)
- 5 CHEMICALLY STABILIZED SUBGRADE, 9" (JT900580)
- 6 GRANULAR SUBBASE, SPECIAL (4" MIN.) (JT301010)

NOTES:

- 1. REINFORCING 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.

RAMP TOLL PLAZA PAVEMENT DETAILS

standard: M-RDY-418

DULDER	OULDEREXISTING PAVEMENT	
DULDER		