

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	Cumberland	68 *	1
		ILLINOIS	CONTRACT NO. 74364	

* 68 + 2 = 70 TOTAL SHEETS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

ADT (2017) = 1450

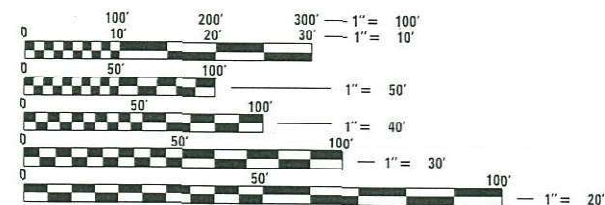
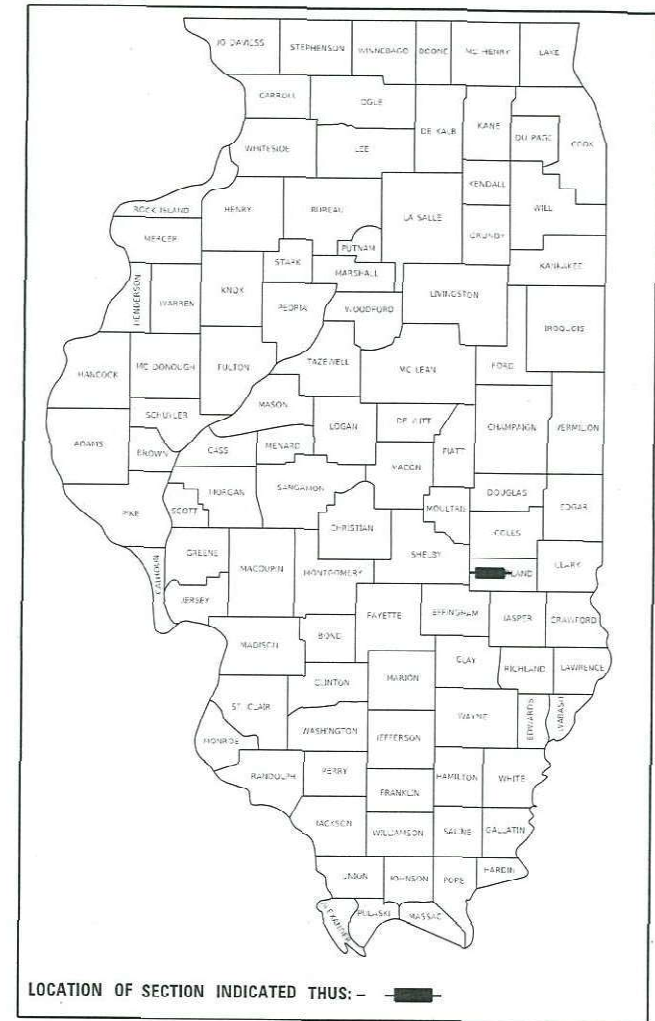
% TRUCKS = 12.1%

PROPOSED HIGHWAY PLANS

FAP ROUTE 773 (IL 121)
SECTION (108BR-2)B-1
PROJECT STP-TLK0(070)
BRIDGE REPLACEMENT
CUMBERLAND COUNTY

C-97-042-09

D-97-019-09

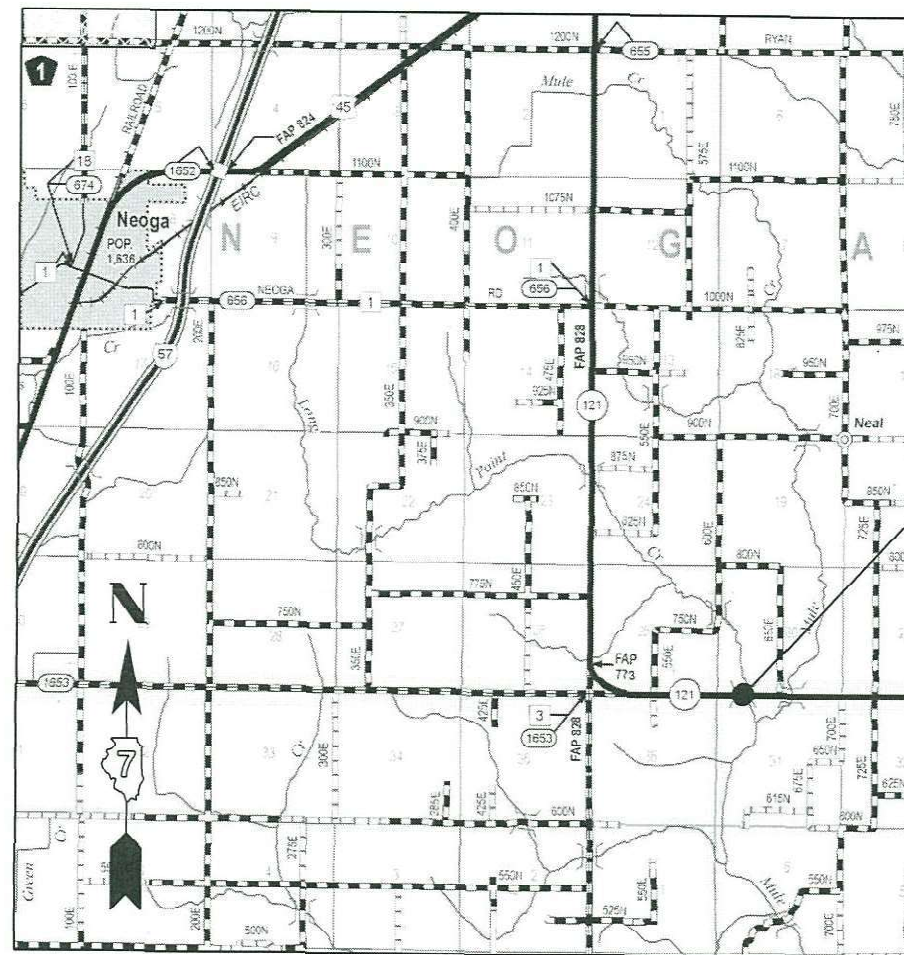


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: DEBRA BARRETT
PROJECT MANAGER: LEAH HILLE

CONTRACT NO. 74364



PROJECT LOCATION
EX SN 018-0028
PR SN 018-0065

GROSS LENGTH = 625.0 FT. = 0.118 MILE
NET LENGTH = 527.0 FT. = 0.100 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 31 2021
Jeffrey P. Myrnes
REGIONAL ENGINEER

October 1 2021
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

October 21 2021
Stephen M. Smith
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

GENERAL NOTES

THIS PROJECT IS LOCATED ON FAP ROUTE 773 (IL 121) IN CUMBERLAND COUNTY, 1.3 MILES EAST OF MONTROSE ROAD OVER LONG POINT BRANCH CREEK. THE WORK INCLUDED IN SECTION (108BR-2)B-1 CONSISTS OF A COMPLETE STRUCTURE REPLACEMENT. THE STRUCTURE IS A SINGLE SPAN PRECAST BEAM STRUCTURE NINETY-EIGHT (98) FEET - ZERO (0) INCHES BACK TO BACK OF ABUTMENTS ON OPEN INTEGRAL ABUTMENTS. THE ROADWAY PROFILE SHALL BE RAISED APPROXIMATELY EIGHT (8) INCHES TO COMPENSATE ELEVATION CHANGE OF THE PROPOSED BRIDGE. FOUR (4) FEET PAVED SHOULDERS SHALL BE CONSTRUCTED ALONG THE ROADWAY, NEW GUARDRAIL, TYPE A GUTTER, AND ALL OTHER WORK NECESSARY TO COMPLETE THIS SECTION.

THE LOCATIONS OF ONE (1) NEW PERMANENT SURVEY MARKERS ARE TO BE DETERMINED BY THE RESIDENT ENGINEER. THIS MARKER SHALL BE AN IDOT ALUMINUM DISK, CAST-IN-PLACE IN NEW STRUCTURE. THE RESIDENT ENGINEER SHALL PROVIDE THE STATION, OFFSET, ELEVATION, AND COORDINATES OF THE PERMANENT MARKERS TO THE DISTRICT 7 CHIEF OF SURVEYS.

TEMPORARY CONCRETE BARRIER WILL NOT BE ALLOWED ON THE PAVEMENT BETWEEN DECEMBER 1 AND MARCH 1.

ALL ELEVATIONS SHOWN IN PLANS ARE BASED ON U.S.G.S. DATUM.

WHEN APPLYING SHORT TERM PAVEMENT MARKINGS, TEMPORARY TAPE SHALL BE USED ON THE SURFACE AND PAINT SHALL BE USED ON THE MILLED SURFACE.

PIPE DRAINS FOUR (4) INCHES SHALL BE ATTACHED TO PIPE UNDERDRAINS FOR STRUCTURES AND SHALL EXTEND TO THE BOTTOM OF THE EMBANKMENT SLOPE AND TERMINATE WITH A CONCRETE HEADWALL.

THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM INFORMATION FURNISHED BY THE UTILITY OWNERS AND MUST BE CONSIDERED APPROXIMATE. FIELD MARKINGS OF FACILITIES IN CRITICAL AREAS MAY BE OBTAINED BY PROVIDING. MINIMUM OF NINETY-SIX (96) HOURS ADVANCE NOTICE THROUGH THE THE J.U.L.I.E. SYSTEM BY CALLING 800-892-0123.

NAME / ADDRESS OF UTILITY COMPANY	TYPE	LOCATION OF CONFLICT	EST. DATE OF RELOCATION
NORRIS ELECTRIC COOP 8543 N HWY 130, P.O. BOX 6000 NEWTON, IL 62448 ATTN: MS. TRISHA BECKMAN (217) 783-8768	POWER	LT STA. 377+50 TO LT STA. 380+75	11/5/2021
FRONTIER COMMUNICATIONS 1205 SOUTH CENTRAL AVE. PARIS, IL 61944 ATTN: MS. MICHELE LEWSADER (217) 463-3129	PHONE / FIBER OPTIC	THROUGHOUT JOB LIMITS	11/5/2021
CLEAR WATER SERVICE CORP. 2020 NO. CR 150 E. MATTOON, IL 61938-8659 ATTN: MR. SHAWN BROWN (217) 258-6711	WATER	RT STA. 375+75 TO RT STA. 377+50	11/5/2021
VILLAGE OF GREENUP 712 E. ELIZABETH ST. GREENUP, IL 62428 ATTN: MR. LARRY TARR (217) 512-3218	GAS	RT STA. 375+75 TO RT STA. 377+50	11/5/2021

COMMITMENTS

TREES THREE (3) INCHES OR GREATER IN DIAMETER AT BREAST HEIGHT SHALL NOT BE CLEARED FROM APRIL 1ST THROUGH SEPTEMBER 30TH OF ANY GIVEN YEAR.

TREE REPLACEMENT	QUANTITY
VILLAGE OF TOLEDO, IL PHONE: 217.849.3336	10
VILLAGE OF NEOGA, IL PHONE: 217.895.3237	40
SUMPTER PARK DISTRICT PHONE: 217.849.3831	10 EASTERN WHITE PINE

APPLICATION RATES

THE FOLLOWING APPLICATION RATES WERE USED IN CALCULATING PLAN QUANTITIES AND HAVE BEEN INCLUDED FOR REFERENCE:

AGGREGATE SURFACE COURSE	2.05 TON/CU YD
BITUMINOUS MATERIALS (PRIME COAT)	0.5 LB/SQ FT (ON MILLED SURFACES)
	0.025 LB/SQ FT (ON HMA LIFTS)
HOT-MIX ASPHALT BINDERS AND SURFACES	112 LB/SQ YD/INCH
NITROGEN FERTILIZER NUTRIENTS	90 LB/ACRE
PHOSPHORUS FERTILIZER NUTRIENTS	90 LB/ACRE
POTASSIUM FERTILIZER NUTRIENTS	90 LB/ACRE

MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE TO THIS PROJECT:

APPLICATION	AC/PG	DESIGN AIR VOIDS	MIXTURE COMPOSITION	FRICTION AGGREGATE	QUALITY MANAGEMENT
HMA SURFACE COURSE, MIX "C", N70	PG 64-22	4.0% @ N=70	IL - 9.5	MIXTURE C	QC/QA
HMA BINDER COURSE	PG 64-22	4.0% @ N=70	IL - 19.0	N/A	QC/QA
INCIDENTAL BITUMINOUS SURFACING	PG 64-22	4.0% @ N=70	IL - 9.5	MIXTURE C	QC/QA
HMA SHOULDERS, 8" (TOP LIFT)	PG 64-22	4.0% @ N=70	IL - 9.5	MIXTURE C	QC/QA
HMA SHOULDERS, 8" (BOTTOM LIFT)	PG 64-22	4.0% @ N=70	IL - 19.0	N/A	QC/QA

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	DRAWN - LMH	REVISED -
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PLOT DATE = 8/19/2021	DATE - 8/19/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES

SCALE: 100,0000' / in SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	Cumberland	68	3
CONTRACT NO. 74364				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0010 80% FEDERAL 20% STATE		
20100500	TREE REMOVAL, ACRES	ACRE	0.5	0.5		
20200100	EARTH EXCAVATION	CU YD	3436	3436		
20300100	CHANNEL EXCAVATION	CU YD	2531	2531		
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	1259	1259		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	85	85		
28000305	TEMPORARY DITCH CHECKS	FOOT	6	6		
28000400	PERIMETER EROSION BARRIER	FOOT	1341	1341		
28100107	STONE RIPRAP, CLASS A4	SQ YD	120	120		
28100109	STONE RIPRAP, CLASS A5	SQ YD	649	649		
28200200	FILTER FABRIC	SQ YD	769	769		
35600724	HOT-MIX ASPHALT BASE COURSE WIDENING, 12"	SQ YD	486	486		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	920	920		
40600990	TEMPORARY RAMP	SQ YD	452	452		
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	248	248		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0010 80% FEDERAL 20% STATE		
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	151	151		
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	2	2		
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	80	80		
44000100	PAVEMENT REMOVAL	SQ YD	107	107		
44000400	GUTTER REMOVAL	FOOT	644	644		
44004250	PAVED SHOULDER REMOVAL	SQ YD	165	165		
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	121	121		
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	214	214		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1		
50200100	STRUCTURE EXCAVATION	CU YD	98	98		
50300225	CONCRETE STRUCTURES	CU YD	79.1	79.1		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	178.5	178.5		
50300260	BRIDGE DECK GROOVING	SQ YD	523	523		

REV. - MS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: 100.0000' / in SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	Cumberland	68	4
			CONTRACT NO. 74364	
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0010 80% FEDERAL 20% STATE		
50300300	PROTECTIVE COAT	SQ YD	668	668		
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	95.3	95.3		
50401305	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BEAMS, IL27N	FOOT	572	572		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	86130	86130		
50800515	BAR SPLICERS	EACH	623	623		
51201600	FURNISHING STEEL PILES HP12X53	FOOT	900	900		
51202305	DRIVING PILES	FOOT	900	900		
51203600	TEST PILE STEEL HP12X53	EACH	1	1		
51500100	NAME PLATES	EACH	1	1		
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	837.8	837.8		
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	238	238		
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	103	103		
60602500	CONCRETE GUTTER, TYPE A	FOOT	648	648		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0010 80% FEDERAL 20% STATE		
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	568	568		
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4		
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3	3		
63200310	GUARDRAIL REMOVAL	FOOT	470	470		
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	4	4		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6		
67100100	MOBILIZATION	L SUM	1	1		
70100100	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	EACH	1	1		
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1		
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1		
70106700	TEMPORARY RUMBLE STRIPS	EACH	3	3		

* SPECIALTY ITEM

REV. - MS

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PLOT DATE = 8/19/2021		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: 100.0000' / in SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	Cumberland	68	5
			CONTRACT NO. 74364	
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0010 80% FEDERAL 20% STATE		
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	2172	2172		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	119	119		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	984	984		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	546	546		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	501	501		
70500100	TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	318	318		
70500670	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	2	2		
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2		
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	3	3		
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2145	2145		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0010 80% FEDERAL 20% STATE		
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	16	16		
* A2001020	TREE, ACER RUBRUM (RED MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	32	32		
* A2001720	TREE, ACER SACCHARUM (SUGAR MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	15	15		
* A2006420	TREE, QUERCUS ALBA (WHITE OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	10	10		
* B2001122	TREE, CERCIS CANADENSIS (EASTERN REDBUD), 2-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	20	20		
* D2002972	EVERGREEN, PINUS STROBUS (EASTERN WHITE PINE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	10	10		
X0326440	SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)	SO YD	67	67		
X2200020	FENCE REMOVAL AND REINSTALLATION	FOOT	1272	1272		
* X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.8	0.8		
X2830495	AGGREGATE DITCH (SPECIAL)	TON	96	96		
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SO YD	1344	1344		

* SPECIALTY ITEM

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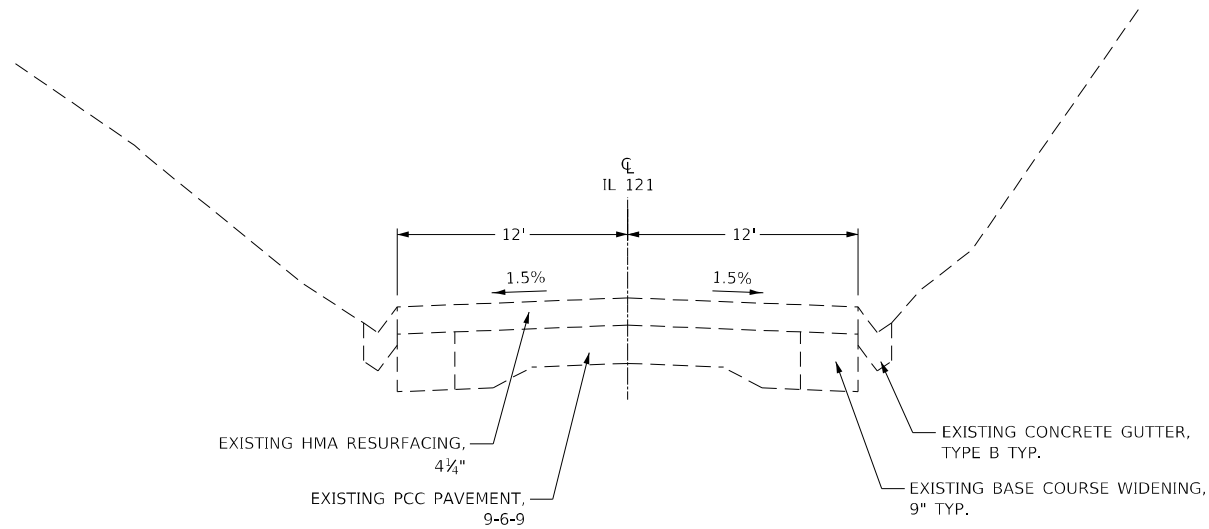
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STATE OF ILLINOIS
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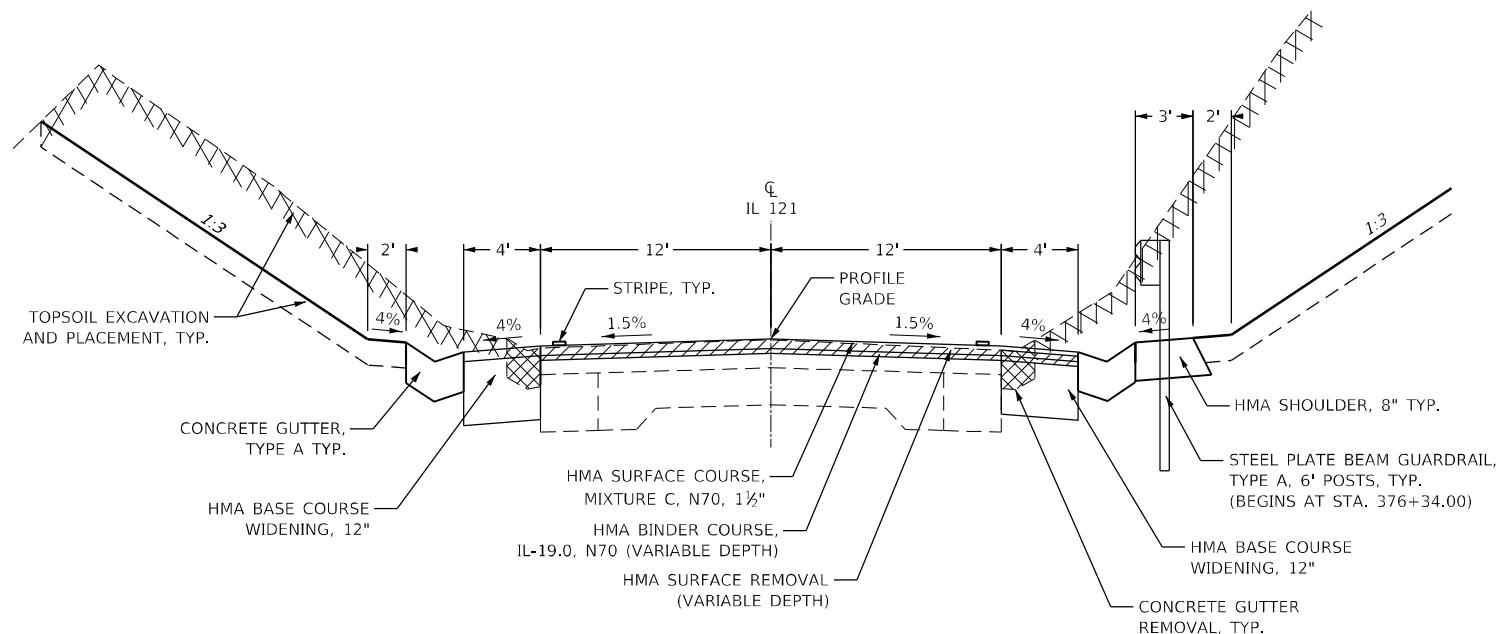
SUMMARY OF QUANTITIES

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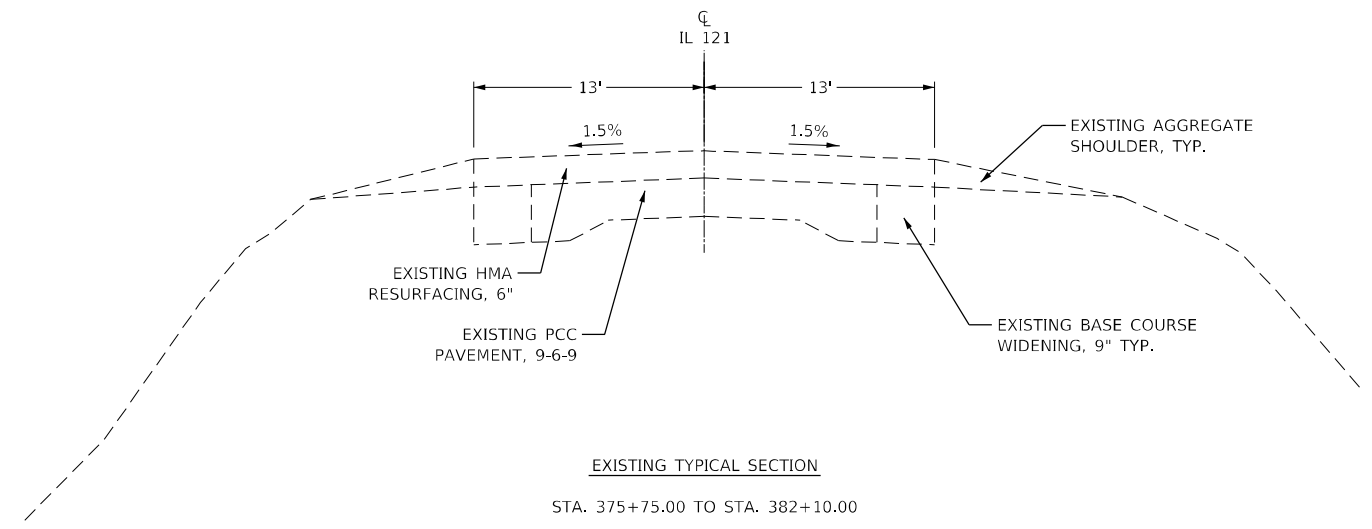
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773	(108BR-2)B-1	Cumberland	68	6
CONTRACT NO. 74364				
ILLINOIS FED. AID PROJECT				



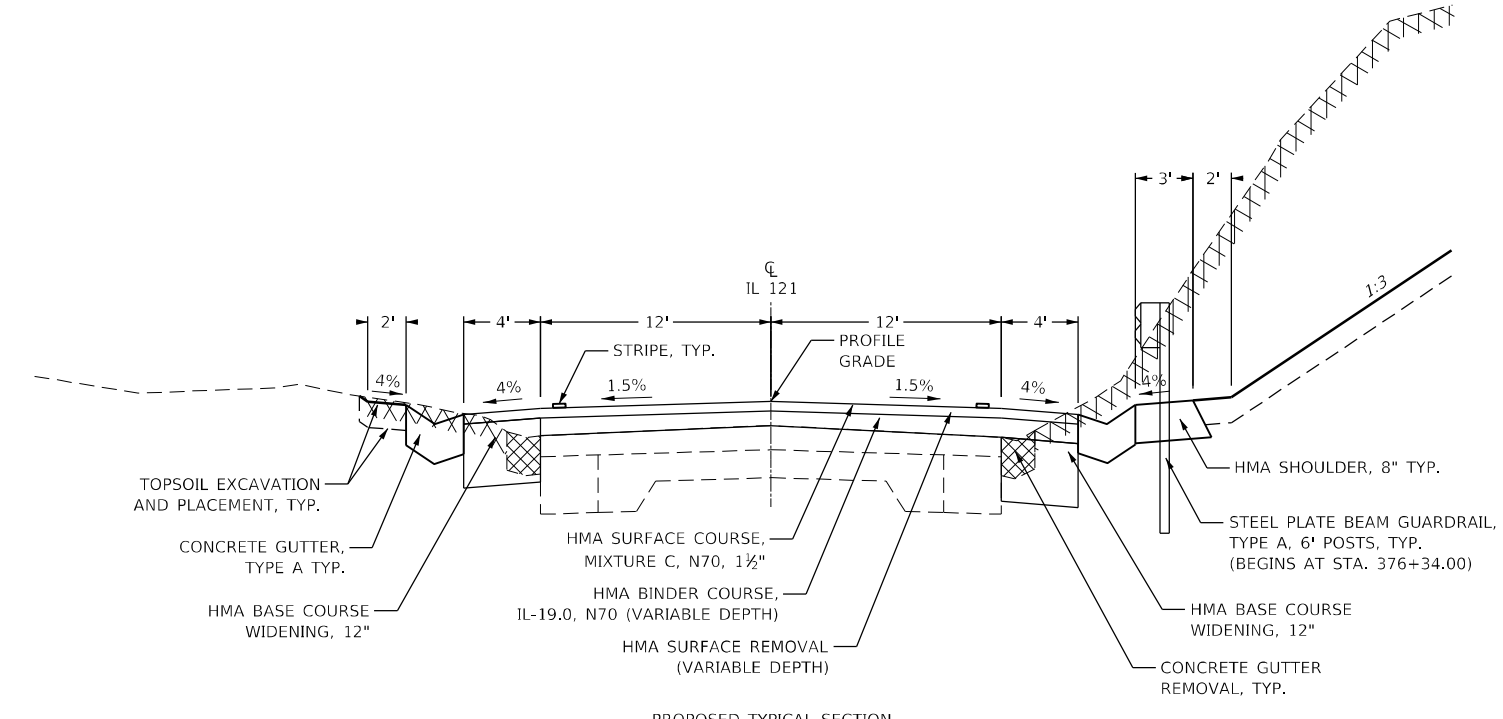
EXISTING TYPICAL SECTION
STA. 375+50.00 TO STA. 377+75.00



PROPOSED TYPICAL SECTION
STA. 375+50.00 TO STA. 376+00.00



EXISTING TYPICAL SECTION
STA. 375+75.00 TO STA. 382+10.00



PROPOSED TYPICAL SECTION
STA. 376+00.00 TO STA. 377+75.00

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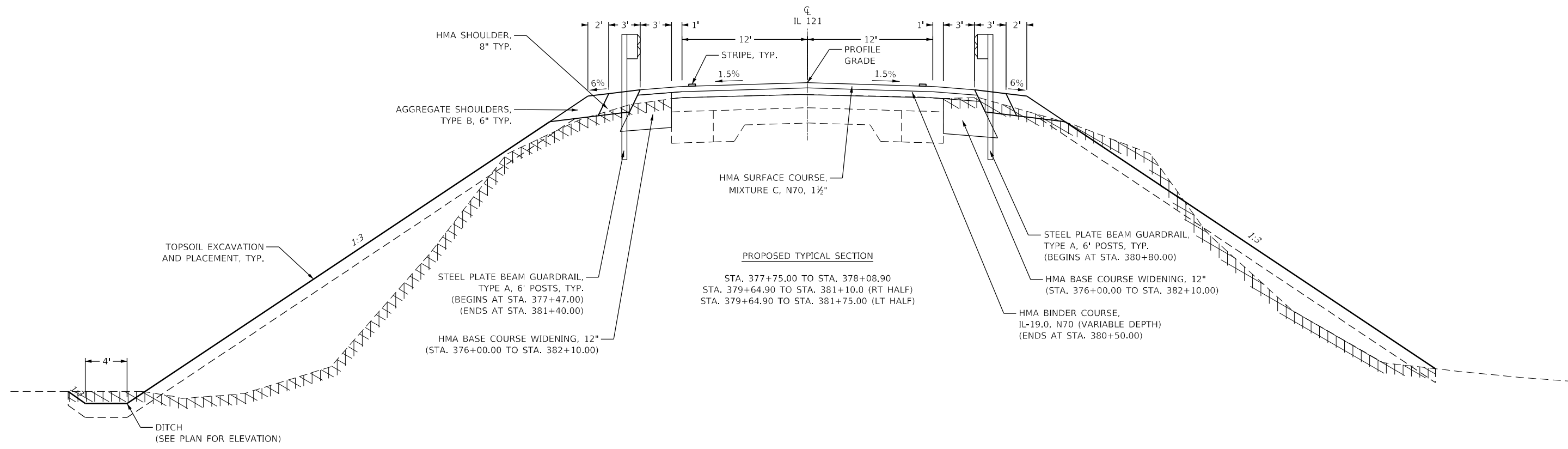
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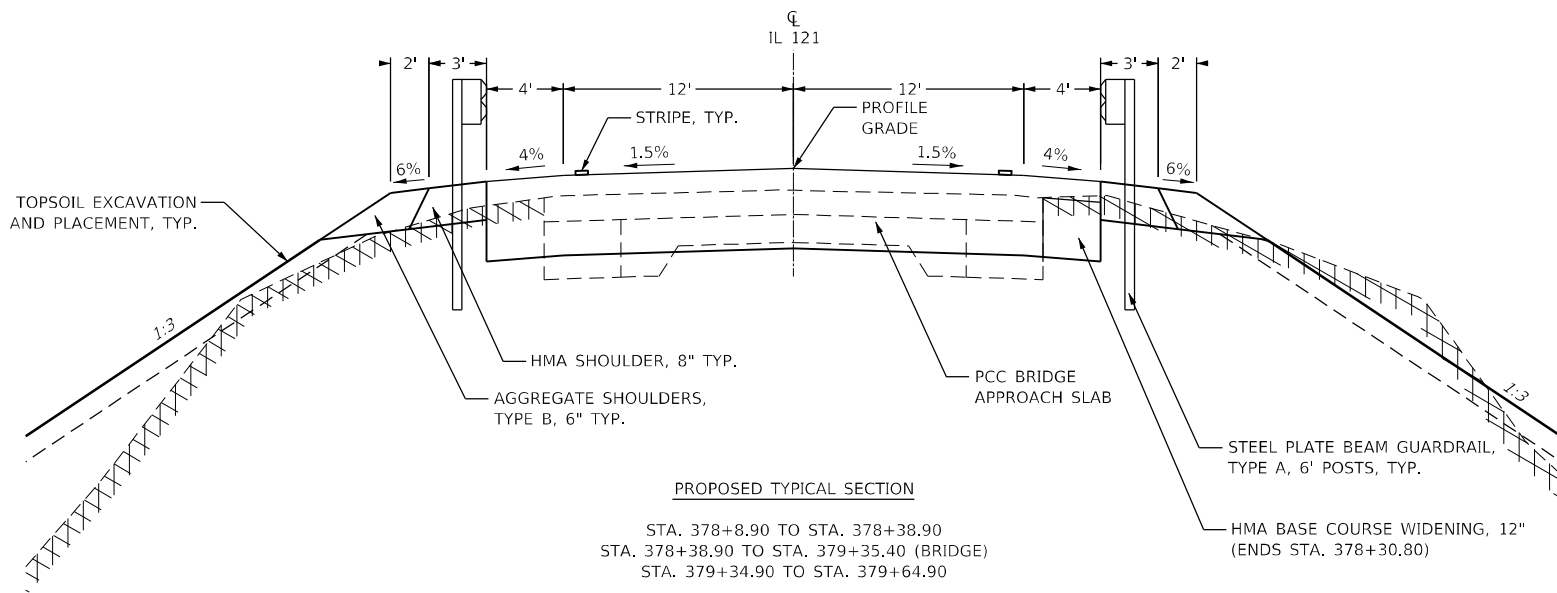
TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

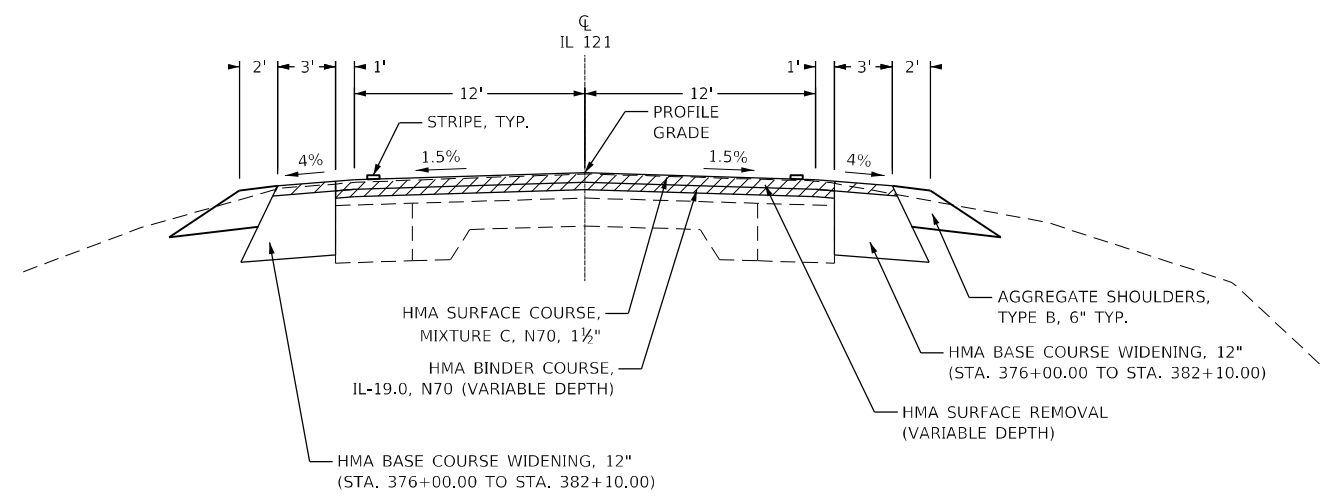
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	Cumberland	68	8
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PROPOSED TYPICAL SECTION
 STA. 377+75.00 TO STA. 378+08.90
 STA. 379+64.90 TO STA. 381+10.0 (RT HALF)
 STA. 379+64.90 TO STA. 381+75.00 (LT HALF)



PROPOSED TYPICAL SECTION
 STA. 378+8.90 TO STA. 378+38.90
 STA. 378+38.90 TO STA. 379+35.40 (BRIDGE)
 STA. 379+34.90 TO STA. 379+64.90



PROPOSED TYPICAL SECTION
 STA. 381+10.00 TO STA. 382+10.00 (RT HALF)
 STA. 381+75.00 TO STA. 382+10.00 (LT HALF)

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PLOT DATE = 8/19/2021		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	Cumberland	68	9
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STAGING SCHEDULE				70106700 TEMPORARY RUMBLE STRIPS	70400100 TEMPORARY CONCRETE BARRIER (USE LARGER VALUE)	70400200 RELOCATE TEMPORARY CONCRETE BARRIER	70600250 IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	70600260 IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	70600350 IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	X7040125 PINNING TEMPORARY CONCRETE BARRIER
STATION TO STATION				EACH	FOOT	FOOT	EACH	EACH	EACH	EACH
STAGE 1	EASTBOUND LANE	356+45.0	356+70.0	1.0	-	-	-	-	-	-
	EASTBOUND LANE	361+45.0	361+70.0	1.0	-	-	-	-	-	-
	EASTBOUND LANE	366+45.0	366+70.0	1.0	-	-	-	-	-	-
STAGE 1	3.0/RT	375+34.1	376+30.0	-	95.9	95.9	-	-	-	-
	3.0/RT	376+30.0	376+55.0	-	25.0	25.0	-	-	-	-
	3.0/RT	378+05.0	381+00.0	-	315.0	295.0	-	-	-	-
	4.0/LT	381+00.0	381+84.8	-	84.8	84.8	-	-	-	-
STAGE 2	3.0/RT	376+27.3	377+00.0	-	72.7	72.7	-	-	-	-
	3.0/RT	377+00.0	381+00.0	-	400.0	400.0	-	-	-	-
	4.0/LT	381+00.0	381+73.2	-	73.2	73.2	-	-	-	-
STAGE 1	LT	375+23.1		-	-	-	1.0	-	-	-
	LT	382+15.8		-	-	-	1.0	-	-	-
STAGE 1	3'/RT	376+75.0	377+10.0	-	-	-	-	1.0	-	-
	3'/RT	377+50.0	377+85.0	-	-	-	-	1.0	-	-
STAGE 2	4'/RT	375+96.3		-	-	-	-	-	1.0	-
	4'/RT	382+04.2		-	-	-	-	-	1.0	-
STAGE 1	2 SEGMENT TRANSITION DRIVEWAY	376+30.0	376+55.0	-	-	-	-	-	-	3
	2 SEGMENT TRANSITION BRIDGE	378+05.0	378+30.0	-	-	-	-	-	-	3
	2 SEGMENT TRANSITION BRIDGE	378+30.0	380+75.0	-	-	-	-	-	-	59
	2 SEGMENT TRANSITION	380+75.0	381+00.0	-	-	-	-	-	-	3
STAGE 2	2 SEGMENT TRANSITION	377+00.0	377+25.0	-	-	-	-	-	-	3.0
	-	377+25.0	377+99.0	-	-	-	-	-	-	18.0
	BRIDGE	377+99.0	379+75.0	-	-	-	-	-	-	-
	-	379+75.0	380+75.0	-	-	-	-	-	-	24.0
	2 SEGMENT TRANSITION	380+75.0	381+00.0	-	-	-	-	-	-	3.0
TOTALS:				3	546	501	2	2	2	116

EROSION CONTROL			28000305 TEMPORARY DITCH CHECKS	28000400 PERIMETER EROSION BARRIER	28100107 STONE RIPRAP, CLASS A4	28100109 STONE RIPRAP, CLASS A5	28200200 FILTER FABRIC	X2830495 AGGREGATE DITCH (SPECIAL)
STATION TO STATION			FOOT	FOOT	SQ YD	SQ YD	SQ YD	TON
LT	375+22.0	377+23.0	-	210.0	-	-	-	-
LT	377+38.0	378+74.0	-	218.0	-	-	-	-
LT	379+06.0	379+49.0	-	68.0	-	-	-	-
LT	379+77.0	381+04.0	-	130.0	-	-	-	-
LT	381+10.0	381+49.0	-	46.0	-	-	-	-
RT	374+70.0	378+07.0	-	352.0	-	-	-	-
RT	378+11.0	378+73.0	-	81.0	-	-	-	-
RT	379+03.0	380+99.0	-	236.0	-	-	-	-
LT	377+50.0	378+00.0	-	-	-	4.0	4.0	-
LT	377+81.4	378+11.9	-	-	50.3	-	58.3	-
RT	377+85.1	378+10.1	-	-	33.3	-	33.3	-
LT	378+00.0	378+37.9	-	-	-	6.3	6.3	-
LT	378+37.9	378+50.0	-	-	-	2.3	2.3	-
LT	379+25.0	379+35.9	-	-	-	2.3	2.3	-
LT	379+35.9	379+50.0	-	-	-	2.3	2.3	-
LT	377+50.0	378+00.0	-	-	-	5.6	5.6	-
LT	378+00.0	378+37.9	-	-	-	7.9	7.9	-
LT	378+37.9	378+50.0	-	-	-	2.4	2.4	-
RT	379+25.0	379+35.9	-	-	-	2.3	2.3	-
RT	379+35.9	379+50.0	-	-	-	2.3	2.3	-
LT	379+49.3	379+75.9	-	-	28.0	-	28.0	-
QUANTITY FROM BRIDGE PLANS			-	-	-	611.0	611.0	-
LT	375+50.0	378+50.0	3.0	-	-	-	-	-
RT	375+50.0	378+50.0	1.0	-	-	-	-	-
LT	378+50.0	382+10.0	1.0	-	-	-	-	-
RT	378+50.0	382+10.0	1.0	-	-	-	-	-
RT	374+75.0	378+22.9	-	-	-	-	-	-
LT	374+75.0	378+22.9	-	-	-	-	-	46.1
RT	375+25.0	378+22.9	-	-	-	-	-	49.5
TOTALS:			6	1341	120	649	769	96

EARTHWORK		20200100 EARTH EXCAVATION	EARTH EXCAVATION EMBANKMENT ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	EARTHWORK BALANCE WASTE(+) OR SHORTAGE (-)	21101505 TOPSOIL EXCAVATION AND PLACEMENT
		CU YD	CU YD	CU YD	CU YD	CU YD
LT	375+00.00	382+10.00	200	150	816	-666
RT	375+00.00	382+10.00	3236	2427	251	2176
TOTALS:		3436	2577	1067	1510	1259

REV. - MS

USER NAME = stefenmk	DESIGNED - LMH	REVISED -
DRAWN - LMH	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/19/2021	DATE - 8/19/2021	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

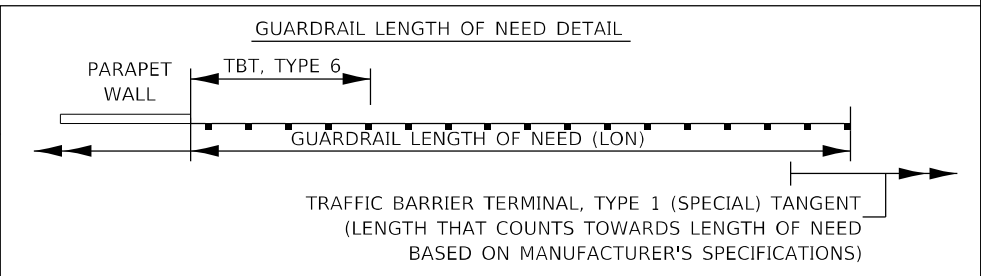
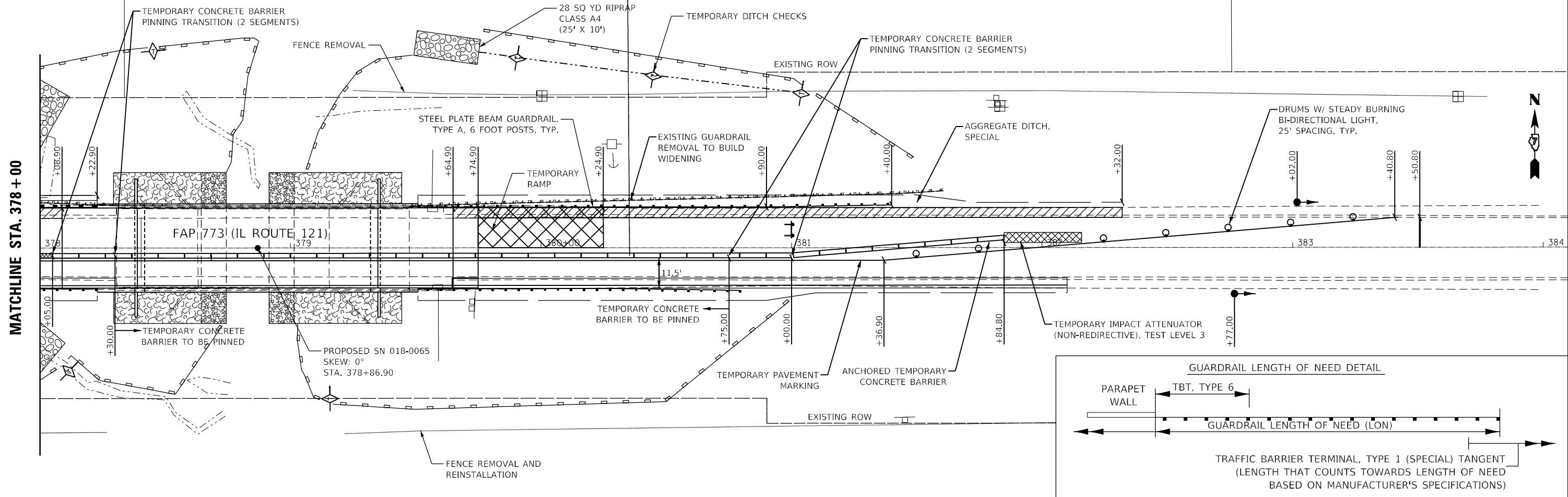
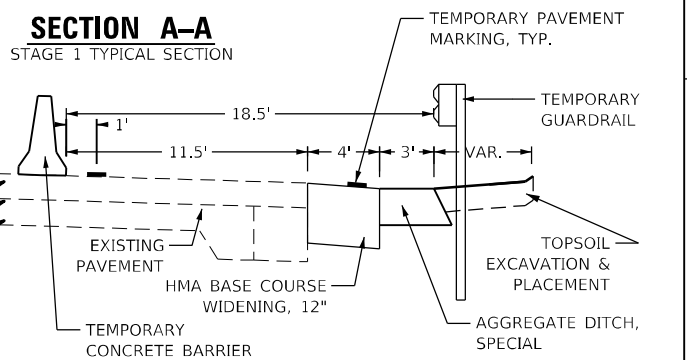
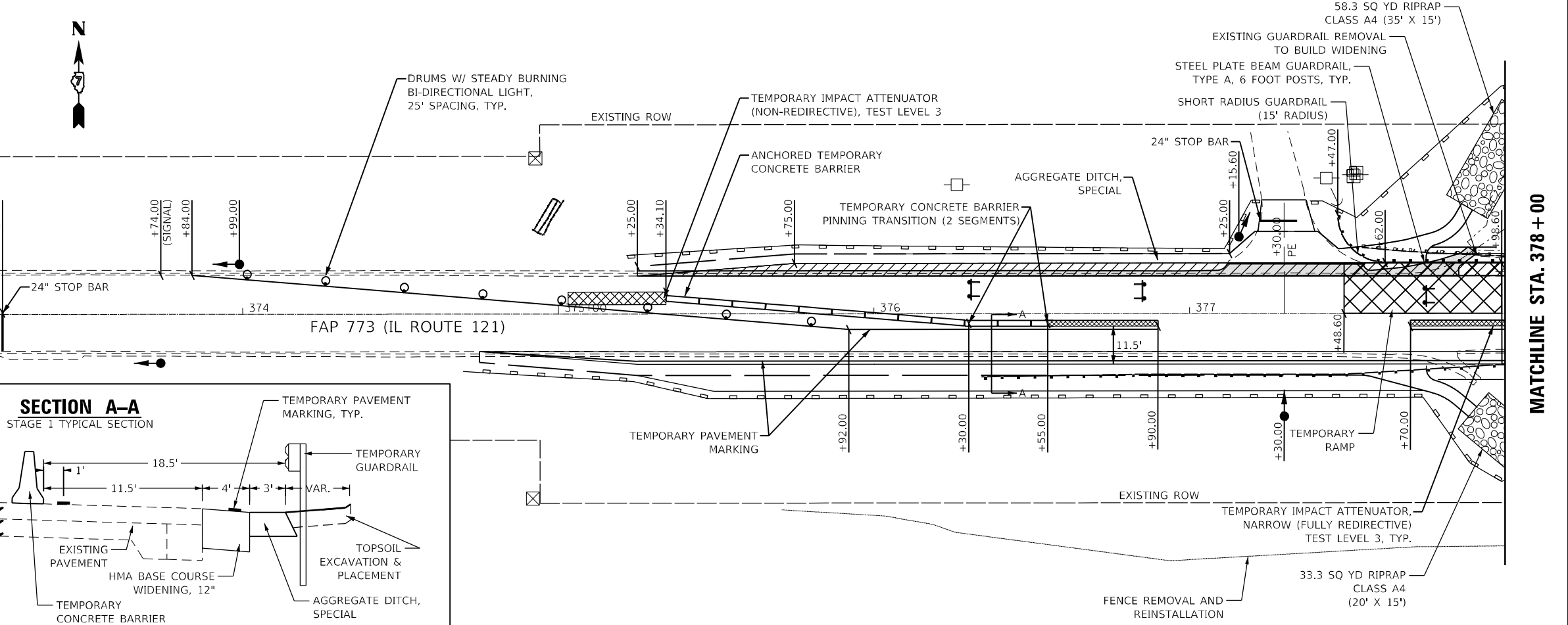
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	Cumberland	68	10
CONTRACT NO. 74364			ILLINOIS FED. AID PROJECT	

LEGEND

- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- EDGE DRUM
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TEMPORARY CONCRETE BARRIER
- TEMPORARY TRAFFIC SIGNAL
- GUARDRAIL REMOVAL
- HMA BASE COURSE WIDENING, 12"
- CONCRETE GUTTER REMOVAL
- PERIMETER EROSION CONTROL BARRIER

- ### NOTES
- SUGGESTED SEQUENCE OF OPERATIONS:
- ERECT STAGE 1 TRAFFIC CONTROL IN ACCORDANCE WITH HIGHWAY STANDARD 701321.
 - REMOVE GUARDRAIL FROM NORTH PORTION OF STRUCTURE.
 - PREFORM STAGE 1 REMOVAL OF EXISTING SN 018-0028.
 - PREFORM STAGE 1 CONSTRUCTION OF PROPOSED SN 018-0065.
 - PREFORM EARTHWORK AND EROSION CONTROL OPERATIONS NORTH SIDE OF IL ROUTE 121.
 - REMOVE EXISTING TYPE B GUTTER IN NORTHWEST QUADRANT OF THE STRUCTURE.
 - CORE OUT MATERIAL FOR BASE COURSE WIDENING AND AGGREGATE DITCH, SPECIAL.
 - CONSTRUCT BASE COURSE WIDENING AND AGGREGATE DITCH, SPECIAL.
 - CONSTRUCT HMA STABILIZATION 6".
 - CONSTRUCT TEMPORARY RAMPS.
 - CONSTRUCT PERMANENT GUARDRAIL AND END TERMINALS.
- SEE TRAFFIC CONTROL AND PROTECTION STANDARD 701321 FOR INFORMATION NOT SHOWN ON THIS SHEET.
TEMPORARY PAVEMENT MARKING INCLUDED IN THE COST OF THE STANDARD (PER ART. 703.07)



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PLOT SCALE = 40,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/19/2021	DATE - 8/19/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL STAGING
STAGE 1**




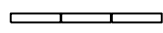

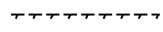




SCALE: 40,0000' / in. SHEET OF SHEETS STA. 375+50.00 TO STA. 382+10.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	Cumberland	68	16
CONTRACT NO. 74364				
ILLINOIS FED. AID PROJECT				

MATCHLINE STA. 378 + 00

MATCHLINE STA. 378 + 00

LEGEND

-  DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  EDGE DRUM
-  TYPE III BARRICADE WITH FLASHING LIGHTS
-  TEMPORARY CONCRETE BARRIER
-  TEMPORARY TRAFFIC SIGNAL
-  GUARDRAIL REMOVAL
-  HMA BASE COURSE WIDENING, 12"
-  CONCRETE GUTTER REMOVAL
-  PERIMETER EROSION CONTROL BARRIER
-  HMA COURSES

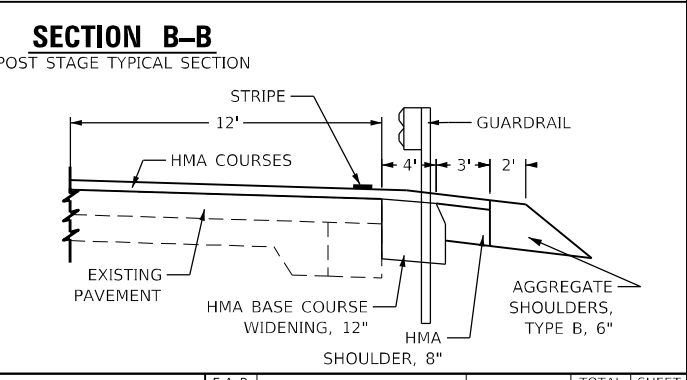
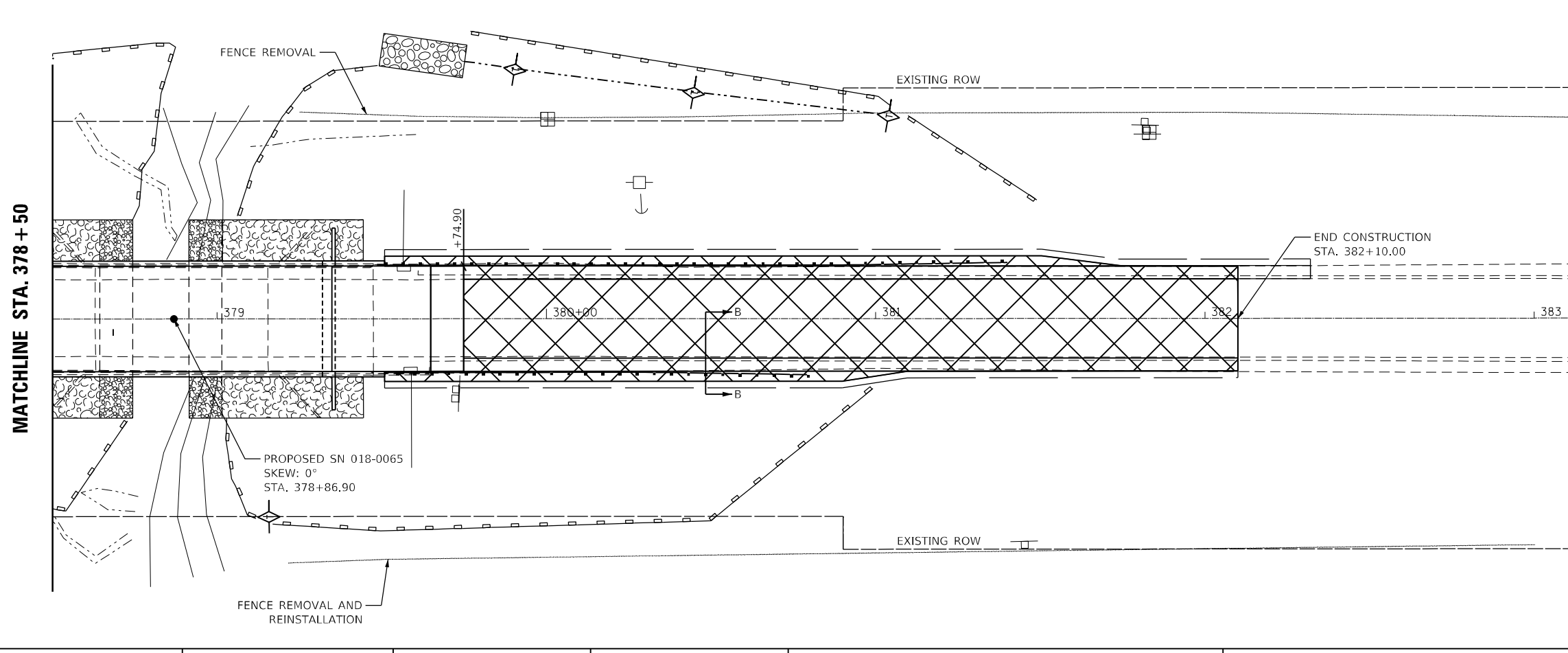
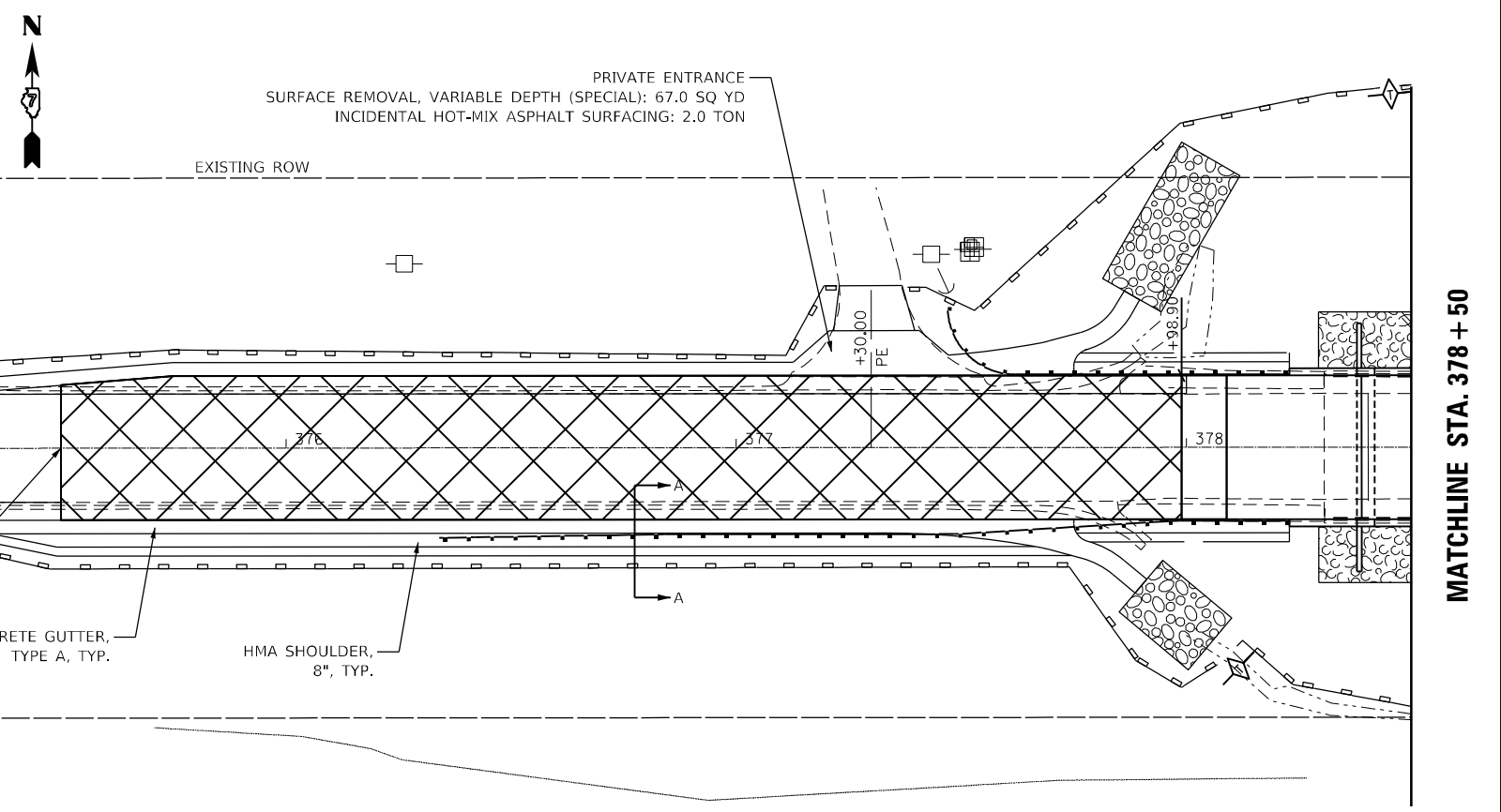
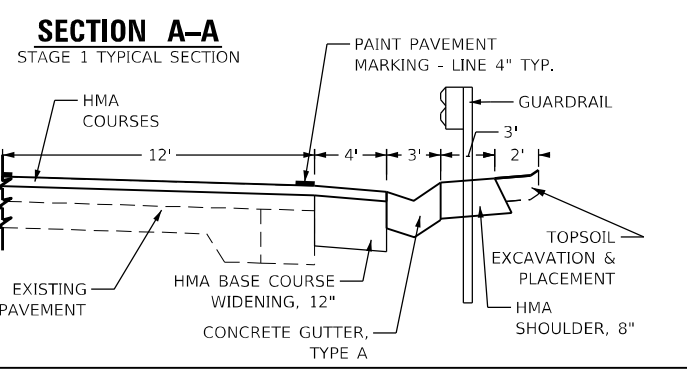
NOTES

SUGGESTED SEQUENCE OF OPERATIONS:

1. REMOVE ALL STAGE TRAFFIC CONTROL.
2. REMOVE TEMPORARY AGGREGATE DITCH, SPECIAL.
3. CONSTRUCT CONCRETE GUTTER, TYPE A WEST OF THE STRUCTURE.
4. CONSTRUCT HMA SHOULDERS, 8" WEST OF THE STRUCTURE.
5. CONSTRUCT HMA COURSES.
6. CONSTRUCT PERMANENT PAVEMENT MARKINGS.

SEE TRAFFIC CONTROL AND PROTECTION STANDARD 701321 FOR INFORMATION NOT SHOWN ON THIS SHEET.

TEMPORARY PAVEMENT MARKING INCLUDED IN THE COST OF THE STANDARD (PER ART. 703.07)



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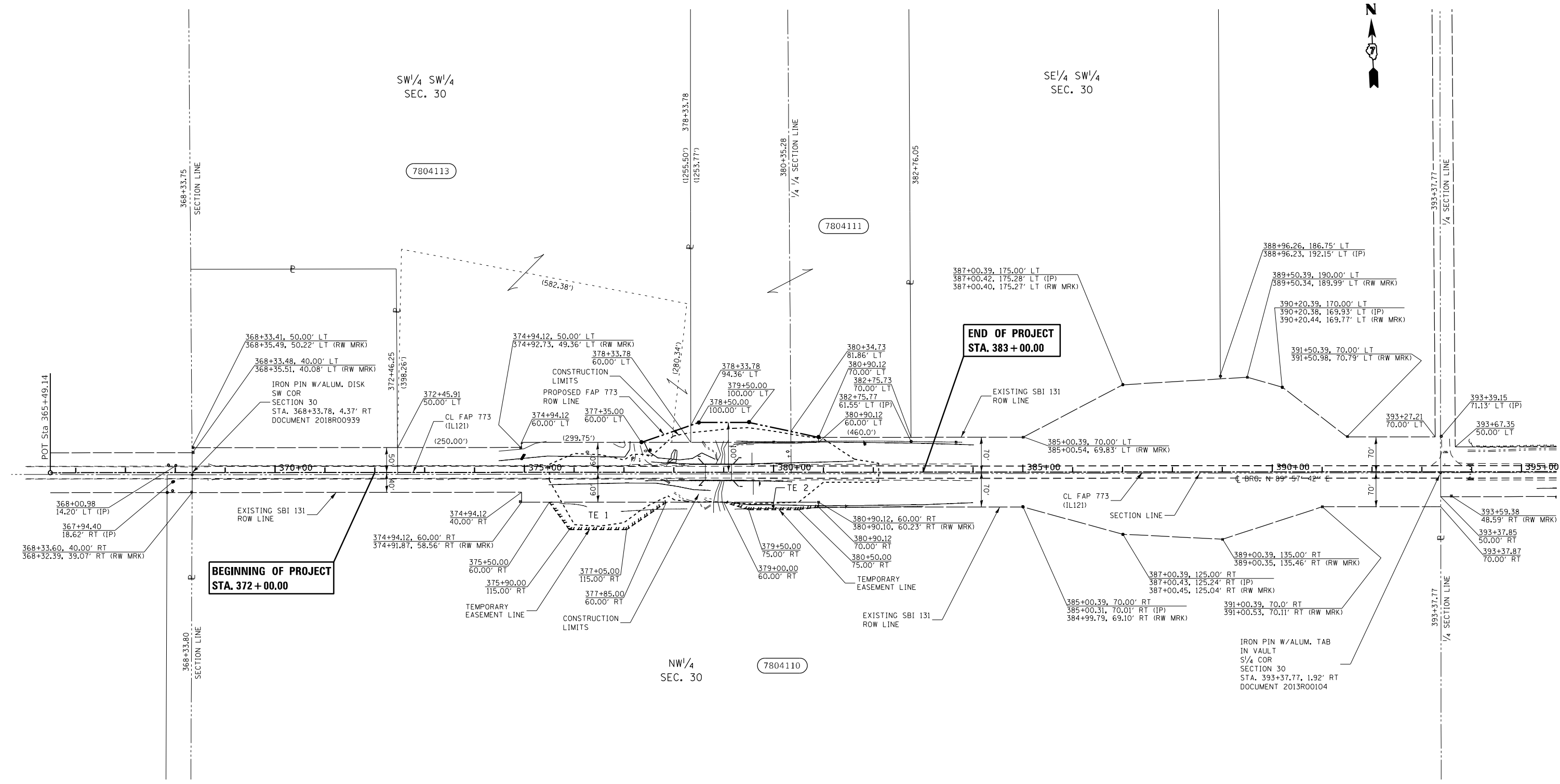
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DRAWN - LMH	REVISIONS -	
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PLOT DATE = 8/19/2021	DATE - 8/19/2021	REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL STAGING POST-STAGE	
SCALE: 40,0000' / in.	SHEET OF SHEETS
STA. 375+50.00	TO STA. 382+10.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	Cumberland	68	18
CONTRACT NO. 74364				
ILLINOIS FED. AID PROJECT				

T.10N.-R.8E., 3rd P.M., NEOGA EAST TWP.



- - EXISTING IRON PIN
- - SET IRON PIN
- ▲ - EXISTING STONE
- ▣ - EXISTING ROW MARKER
- (R) RECORDED DISTANCE

NOTE:
 BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983(11)
 TEMPORARY EASEMENTS NEEDED FOR A WORK AREA

PARCEL	OWNER	AREA TAKEN		EASEMENT	AREA REM	INST	RECORDED				EXCESS		
		ADD	EXIST				MICRO FILM NO	DATE	BOOK	PAGE	AREA	SOLD	
7804110	REUBEN AND LORETTA JESS			0.276 AC.									
	TRACT 1			0.221 AC.									
	TRACT 2			0.055 AC.									
7804111	DARRYL BAKER	0.186 AC.	0.000 AC.		22.103 AC.								
7804113	ROBERT G. AND SARAH K. DILLINGHAM	0.039 AC.	0.000 AC.		25.644 AC.								

FILE NAME D774364-sht-ROW.dgn	USER NAME = steffenmk	DESIGNED - LRF	REVISED -
		DRAWN - LRF	REVISED -
		CHECKED - JMD	REVISED -
		DATE - 07/05/18	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

RIGHT OF WAY PLANS

PROJECT: STA. 366+00.00 TO STA. 395+00.00
 SHEET NO. 2 OF 2 SHEET

F.A.P. R.E. 773	SECTION (108BR-2)B-1	COUNTY CUMBERLAND	TOTAL SHEETS 68	SHEET NO. 19
SCALE: 1" = 100'		CONTRACT NO. 74364	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

REV. - MS



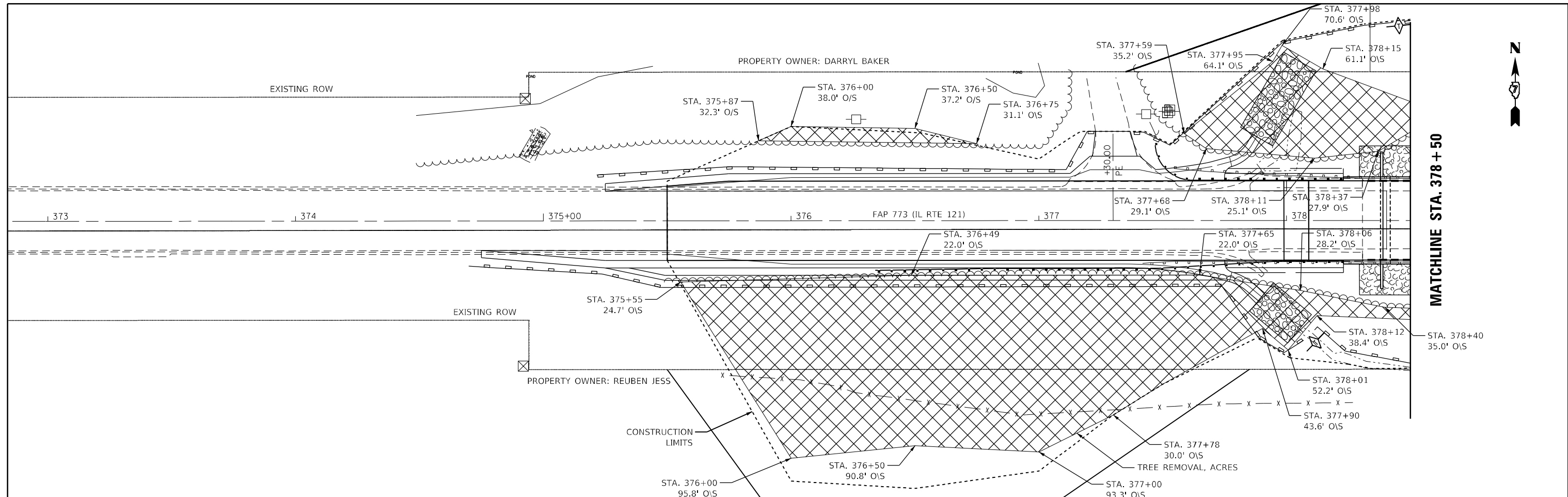
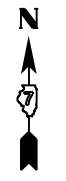
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PLOT DATE = 8/19/2021	DATE - 8/19/2021	REVISED -

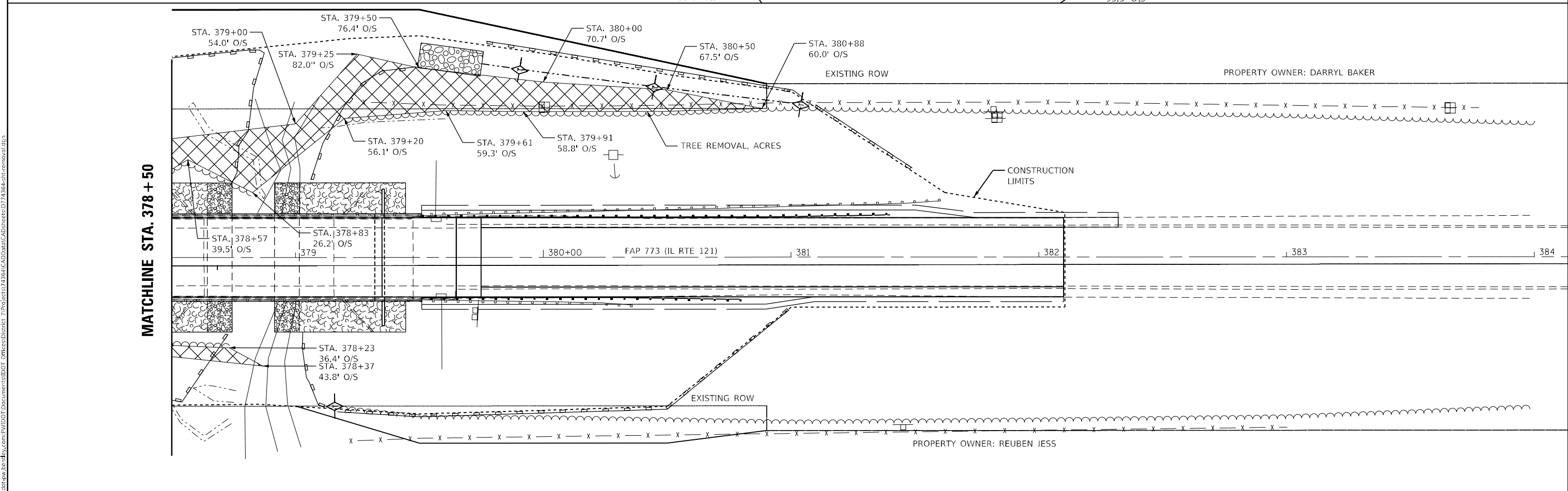
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ENTRANCE GUTTER REPLACEMENT			
SCALE: 20.0000 ' / in.	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.P. RTE. 773	SECTION (108BR-2)B-1	COUNTY Cumberland	TOTAL SHEETS 68	SHEET NO. 20
CONTRACT NO. 74364				
ILLINOIS FED. AID PROJECT				



MATCHLINE STA. 378 + 50



MATCHLINE STA. 378 + 50

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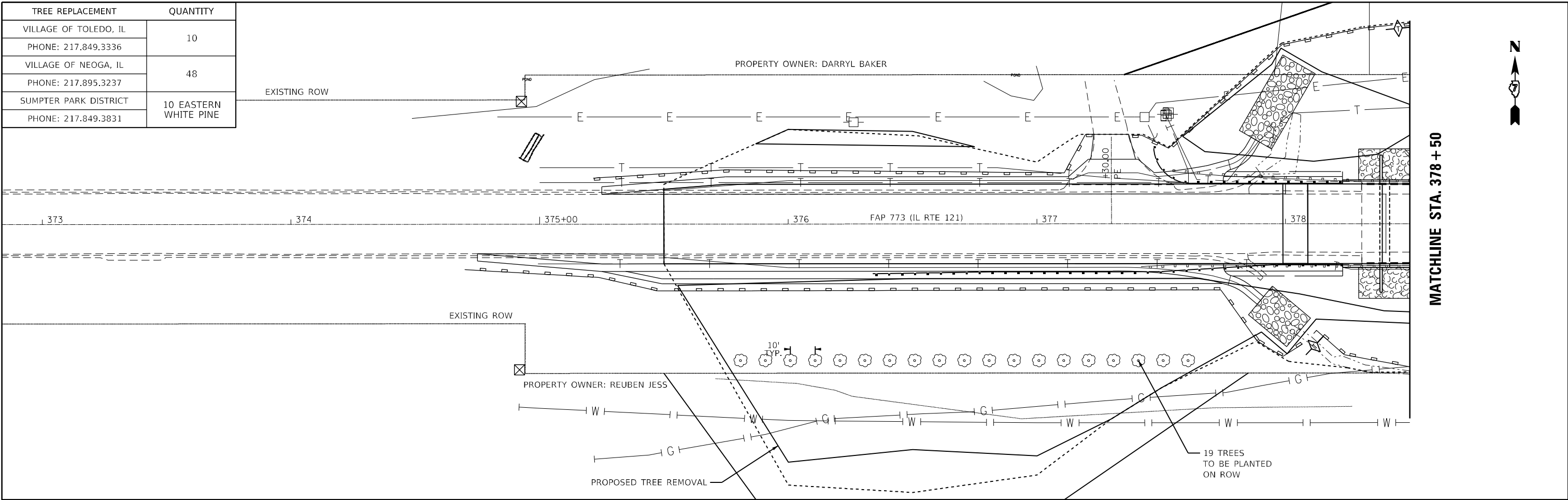
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TREE REMOVAL DETAIL

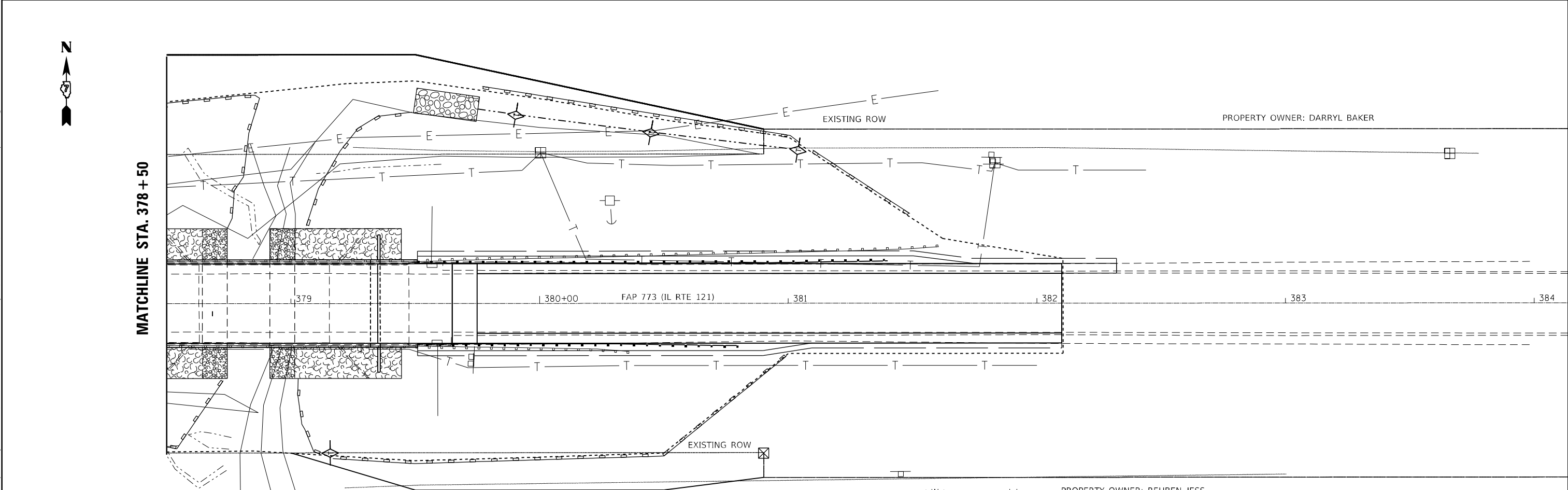
SCALE: 40,0000' / in. SHEET OF SHEETS STA. 375+50.00 TO STA. 381+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	Cumberland	68	21
CONTRACT NO. 74364				
ILLINOIS		FED. AID PROJECT		

TREE REPLACEMENT	QUANTITY
VILLAGE OF TOLEDO, IL PHONE: 217.849.3336	10
VILLAGE OF NEOGA, IL PHONE: 217.895.3237	48
SUMPTER PARK DISTRICT PHONE: 217.849.3831	10 EASTERN WHITE PINE



MATCHLINE STA. 378 + 50



MATCHLINE STA. 378 + 50

USER NAME = steffenmk	DESIGNED - LMH	REVISED -
DRAWN - LMH	CHECKED -	REVISED -
PLOT SCALE = 40,0000' / in.	DATE - 8/19/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TREE REPLACEMENT	
SCALE: 40,0000' / in.	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	Cumberland	68	22
CONTRACT NO. 74364				
ILLINOIS FED. AID PROJECT				

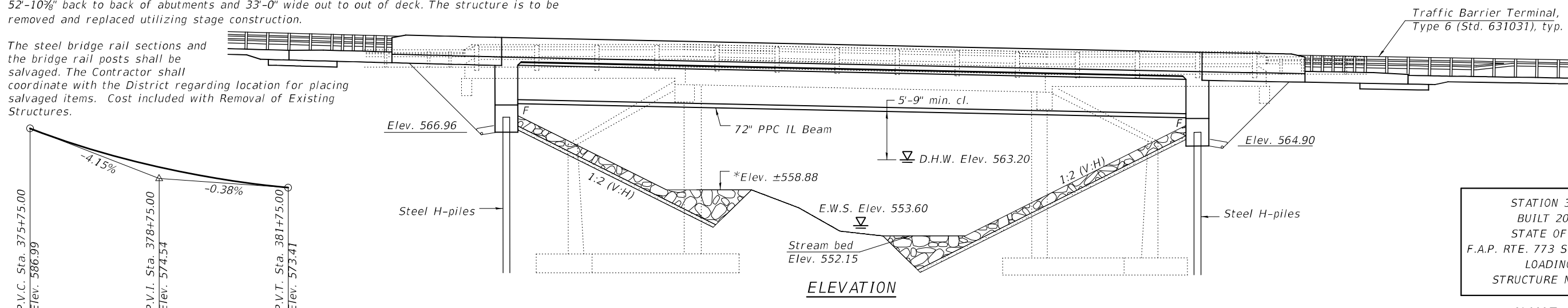
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Benchmark: Brass disc in the top of concrete curb on the Southwest corner of Structure 018-0028, Sta. 378+60, 17' RT, Elev. 577.537

Existing Structure: Structure No. 018-0028, built in 1928 as SBI 131, Sec. 108B. The original Structure was a single span concrete girder superstructure. In 1981 the superstructure was replaced with PPC deck beams. The substructure consists of closed abutments. The existing structure is 52'-10 1/2" back to back of abutments and 33'-0" wide out to out of deck. The structure is to be removed and replaced utilizing stage construction.

The steel bridge rail sections and the bridge rail posts shall be salvaged. The Contractor shall coordinate with the District regarding location for placing salvaged items. Cost included with Removal of Existing Structures.

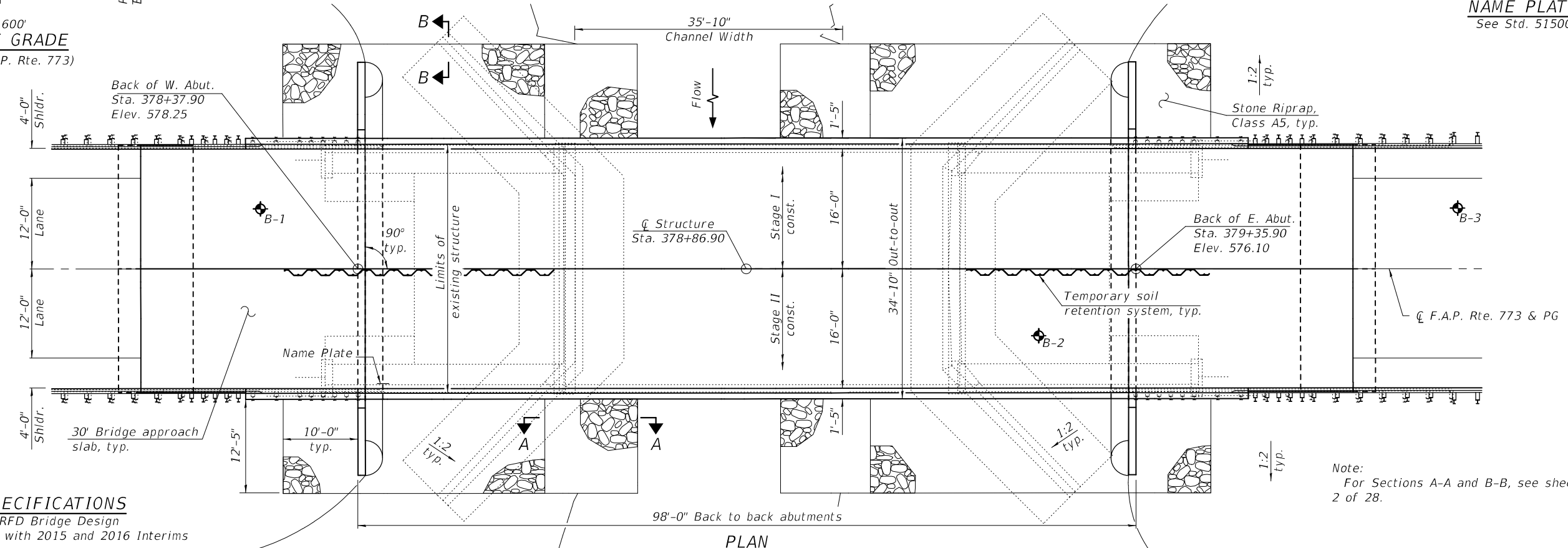
* Elevation shall be adjusted in the field to match existing ground elevation as directed by the Engineer.



STATION 378+86.90
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RTE. 773 SEC. (108BR-2)B-1
LOADING HL-93
STRUCTURE NO. 018-0065

NAME PLATE
See Std. 515001

V.C. = 600'
PROFILE GRADE
(Along \bar{C} F.A.P. Rte. 773)



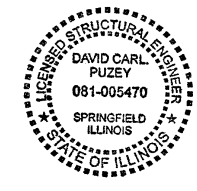
DESIGN SPECIFICATIONS
2014 AASHTO LRFD Bridge Design
Specifications, 7th Edition with 2015 and 2016 Interims

DESIGN STRESSES
FIELD UNITS

$f'_c = 3,500$ psi
 $f'_c = 4,000$ psi (Concrete Superstructure)
 $f_y = 60,000$ psi (Reinforcement)

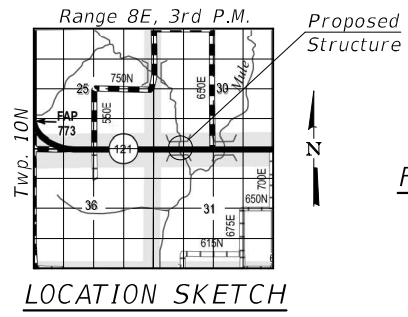
PRECAST PRESTRESSED UNITS

$f'_c = 8,500$ psi
 $f'_ci = 7,000$ psi
 $f_{pu} = 270,000$ psi (0.6" ϕ Low Relaxation Strands)
 $f_{pbt} = 202,300$ psi (0.6" ϕ Low Relaxation Strands)



LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

SEISMIC DATA
Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.194g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.423g
Soil Site Class = D



GENERAL PLAN AND ELEVATION
ILLINOIS ROUTE 121 OVER
LONG POINT BRANCH
F.A.P. ROUTE 773-SECTION (108BR-2)B-1
CUMBERLAND COUNTY
STATION 378+86.90
STRUCTURE NO. 018-0065

DESIGNED - CRYSTAL D. STONE	EXAMINED - <i>Jay F. J...</i>	DATE - 10/5/2020
CHECKED - ADAM L. STAGGEMEYER	PASSED - <i>David Puzey</i>	REVISOR -
DRAWN - IAN J. ANDREWS	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -
CHECKED - C.D.S. / A.L.S.		

9/28/2020 9:30:09 AM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 28 SHEETS

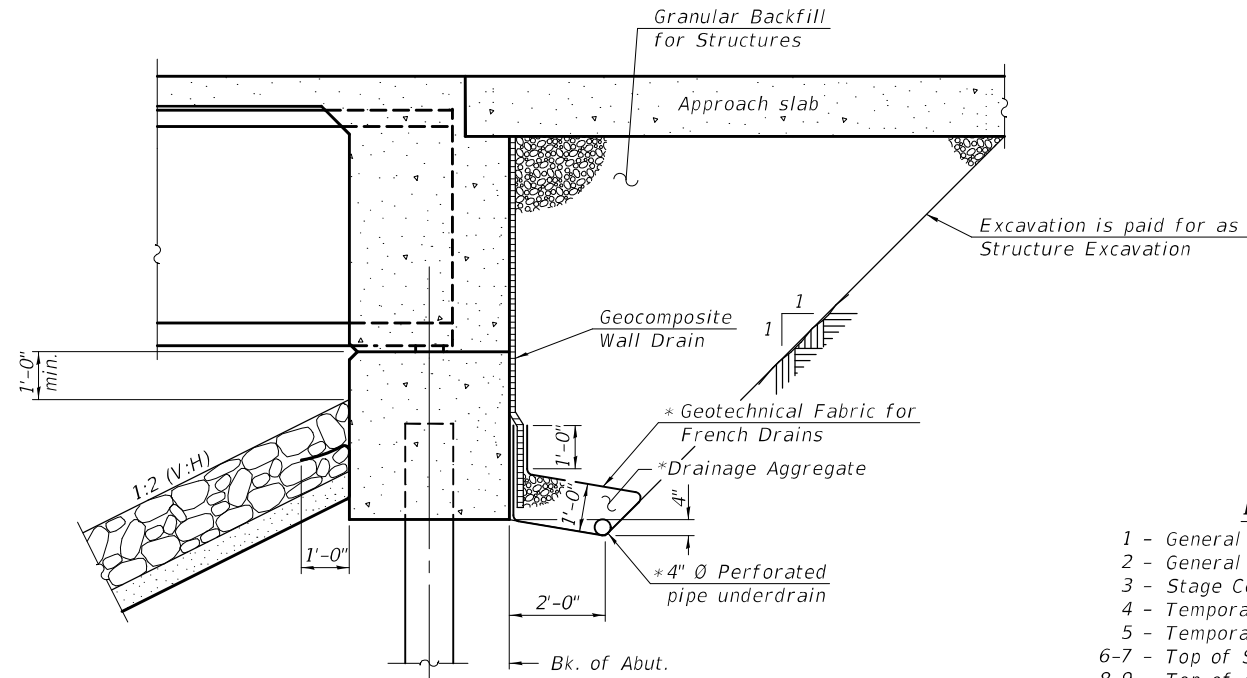
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	CUMBERLAND	66	23
CONTRACT NO. 74364				

ILLINOIS FED. AID PROJECT

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GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
 Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.



SECTION THRU INTEGRAL ABUTMENT
 (Horiz. dim. @ Rt. L's)

*Included in the cost of Pipe Underdrains for Structures.
 (See Special Provisions)

Note:
 All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

INDEX OF SHEETS

- 1 - General Plan & Elevation
- 2 - General Data
- 3 - Stage Construction Details
- 4 - Temporary Soil Retention System
- 5 - Temporary Concrete Barrier for Stage Construction
- 6-7 - Top of Slab Elevations
- 8-9 - Top of Approach Slab Elevations
- 10-11 - Superstructure
- 12-13 - Diaphragm Details
- 14-15 - Bridge Approach Slab Details
- 16-17 - Framing Plan
- 18-19 - IL72N Beam Details
- 20-22 - Abutments
- 23 - HP Pile Details
- 24 - Bar Splicer Assembly and Mechanical Splicer Details
- 25 - Concrete Parapet Slipforming Option
- 26-28 - Soil Boring Logs

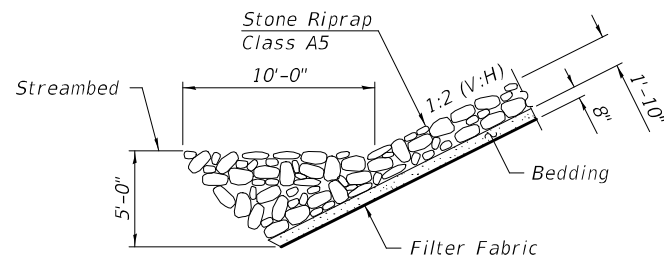
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq. Yd.		611	611
Filter Fabric	Sq. Yd.		611	611
Protective Coat	Sq. Yd.	668		668
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		98	98
Concrete Structures	Cu. Yd.		79.1	79.1
Concrete Superstructure	Cu. Yd.	178.5		178.5
Bridge Deck Grooving	Sq. Yd.	523		523
Concrete Superstructure (Approach Slab)	Cu. Yd.	95.3		95.3
Furnishing and Erecting Precast Prestressed Concrete Beams, IL72N	Foot	572.0		572.0
Reinforcement Bars, Epoxy Coated	Pound	66,170	19,960	86,130
Bar Splicers	Each	507	116	623
Furnishing Steel Piles HP12X53	Foot		900	900
Driving Piles	Foot		900	900
Test Pile Steel HP12X53	Each		1	1
Name Plates	Each	1		1
Temporary Soil Retention System	Sq. Ft.		837.8	837.8
Granular Backfill for Structures	Cu. Yd.		238	238
Geocomposite Wall Drain	Sq. Yd.		103	103
Asbestos Bearing Pad Removal	Each	22		22
Pipe Underdrains for Structures 4"	Foot		162	162

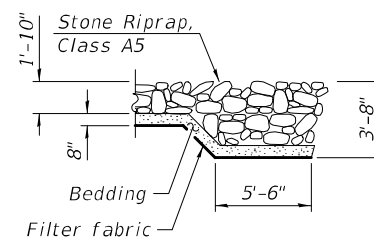
WATERWAY INFORMATION

Existing Overtopping Elev. = 573.0 @ Sta. - 386+02.80
 Drainage Area = 11.91 sq.mi. Proposed Overtopping Elev. = 573.0 @ Sta. - 386+02.80

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	2340	359	373	562.2	0.7	0.6	562.9	562.8
Base	50	3770	408	438	563.2	1.8	1.5	565.0	564.7
Overtop Existing	100	4420	428	465	563.6	2.2	1.9	565.8	565.5
Overtop Proposed	N/A								
Max. Calc.	500	6010	478	535	564.6	3.4	2.8	568.0	567.4



SECTION A-A



SECTION B-B

DESIGN SCOUR ELEVATION TABLE

Event / Limit	Design Scour Elevations (ft.)		
	West Abut.	East Abut.	Item 113
Q100	566.96	564.90	8
Q200	566.96	564.90	
Design	566.96	564.90	
Check	566.96	564.90	

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DESIGNED - CRYSTAL D. STONE	EXAMINED - <i>Joanne F. [Signature]</i>	DATE - OCTOBER 5, 2020
CHECKED - ADAM L. STAGGEMEYER	PASSED - <i>Carl [Signature]</i>	REVISOR -
DRAWN - JACQUES K. ELLOYE	ENGINEER OF BRIDGE DESIGN	REVISION -
CHECKED - C.D.S. / A.L.S.	ENGINEER OF BRIDGES AND STRUCTURES	

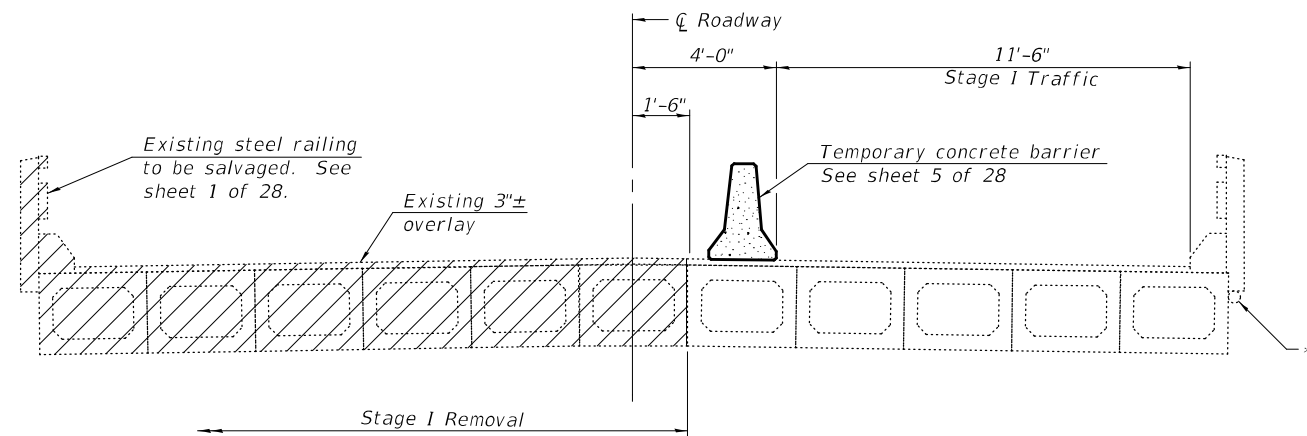
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
 STRUCTURE NO. 018 - 0065**

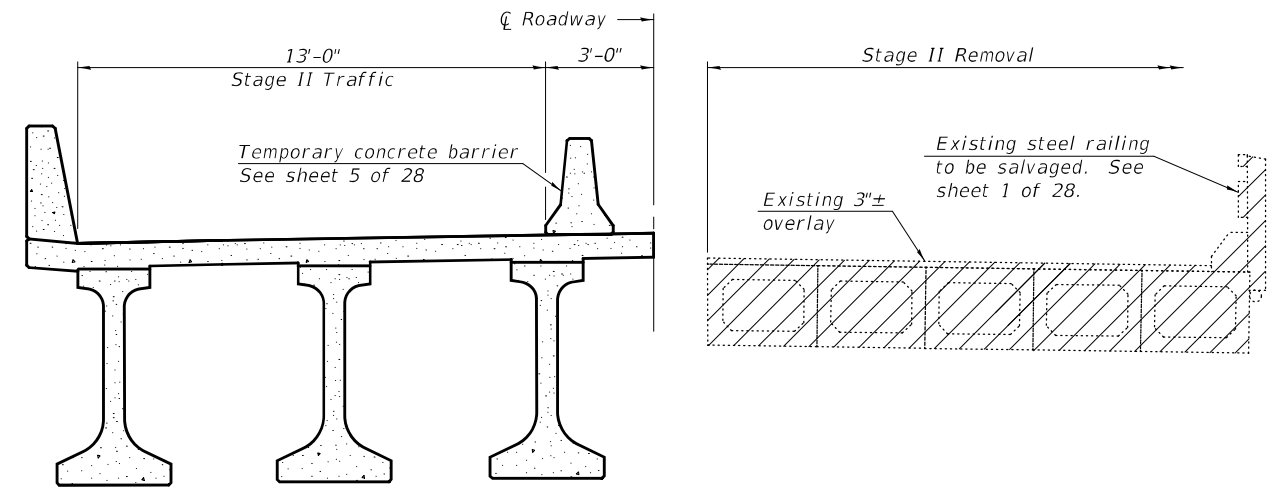
SHEET 2 OF 28 SHEETS

F.A.P. RTE. 773	SECTION (108BR-2)B-1	COUNTY CUMBERLAND	TOTAL SHEETS 66	SHEET NO. 24
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74364	

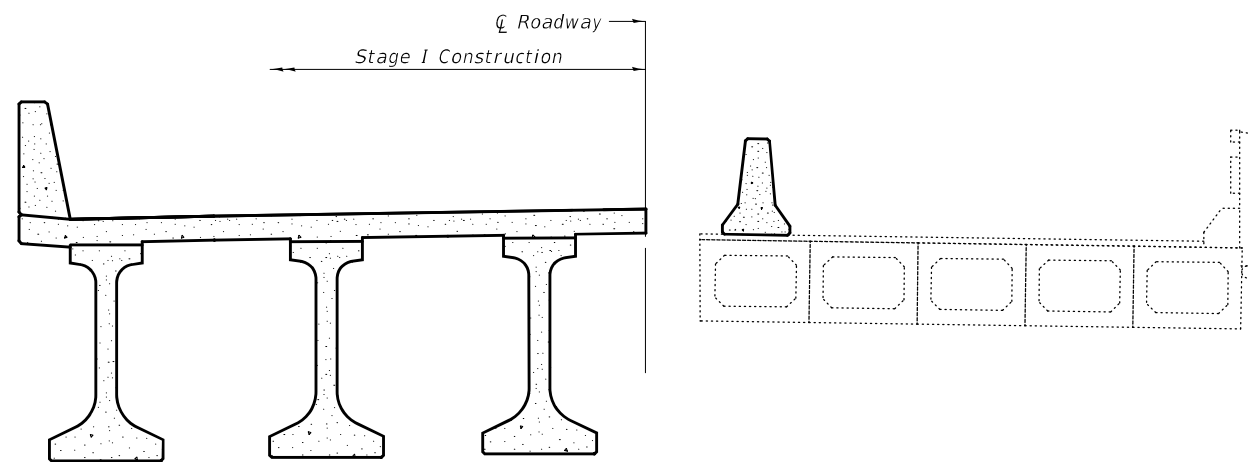
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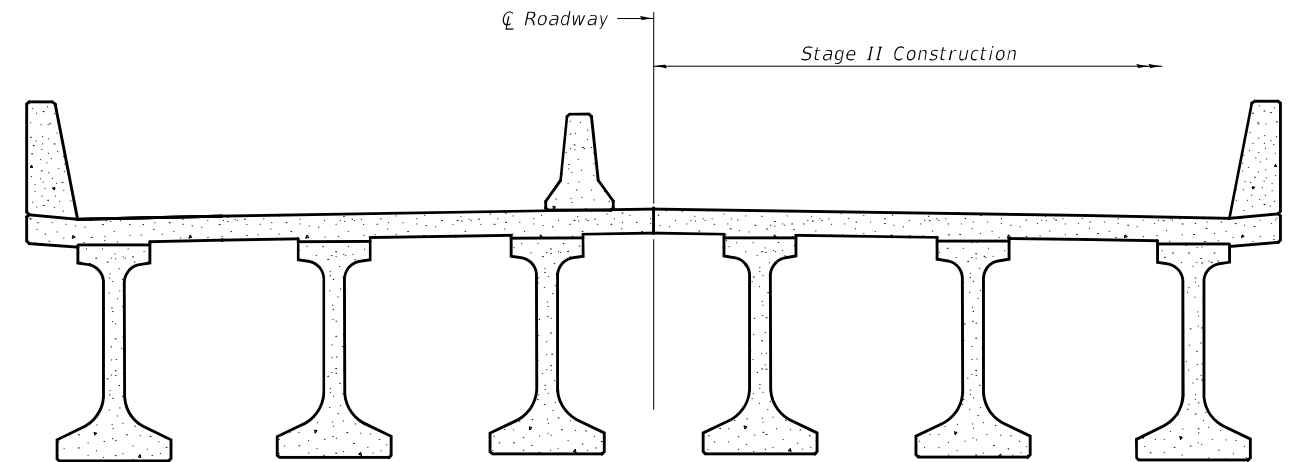
STAGE I REMOVAL



STAGE II REMOVAL



STAGE I CONSTRUCTION



STAGE II CONSTRUCTION

* Existing telephone line conduit to be removed. Cost included in Removal of Existing Structures.

Notes:
 All staging cross sections are looking East.
 For quantity of Temporary Concrete Barrier, see roadway plans.
 Hatched area indicates Removal of Existing Structures.

DESIGNED -	CRYSTAL D. STONE
CHECKED -	ADAM L. STAGGEMEYER
DRAWN -	JACQUES K. ELLOYE
CHECKED -	C.D.S. / A.L.S.

EXAMINED	<i>Joanne F. DeLoe</i> ENGINEER OF BRIDGE DESIGN
PASSED	<i>Carl King</i> ENGINEER OF BRIDGES AND STRUCTURES

DATE -	OCTOBER 5, 2020
REVISED -	
REVISED -	

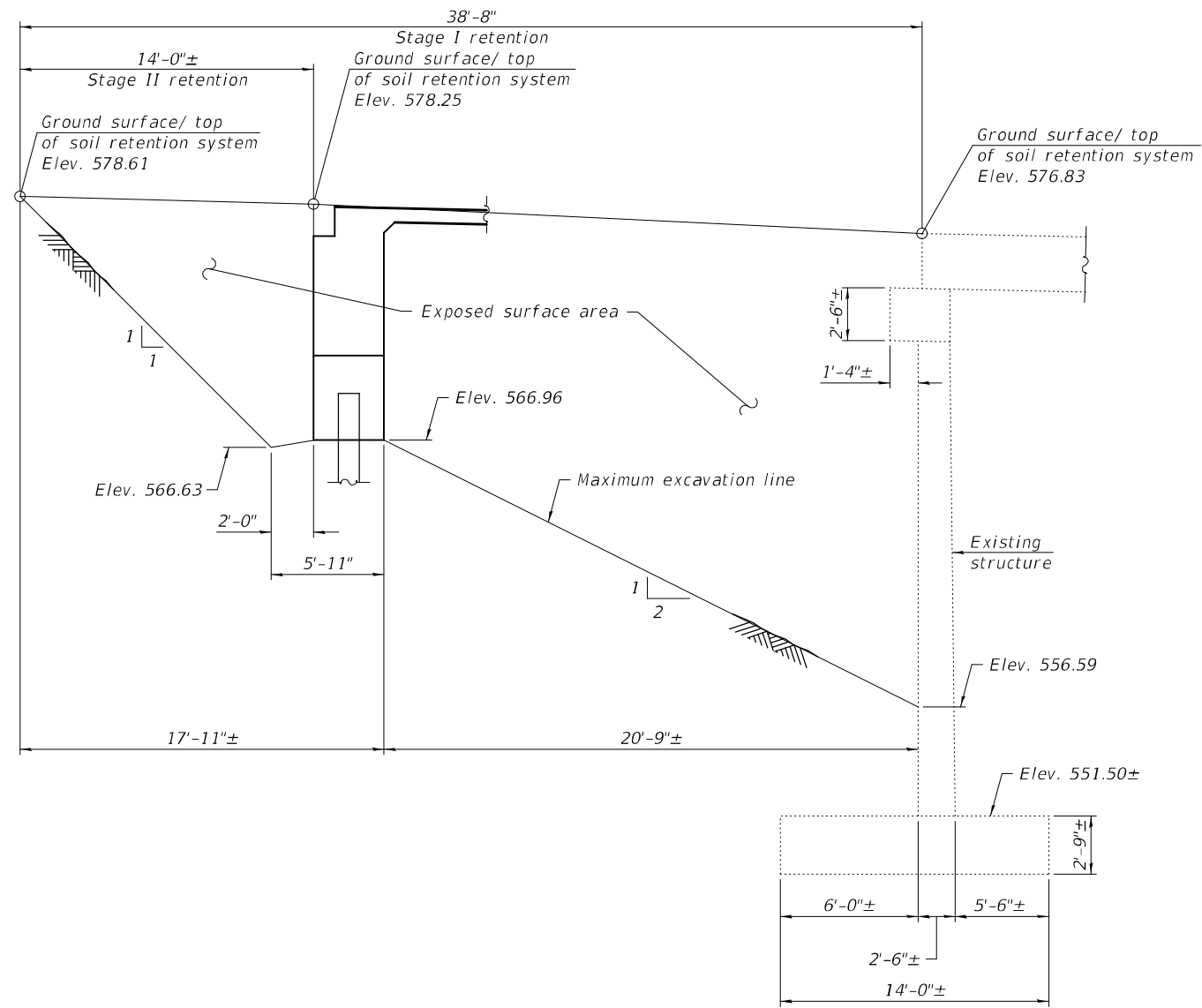
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
 STRUCTURE NO. 018 - 0065

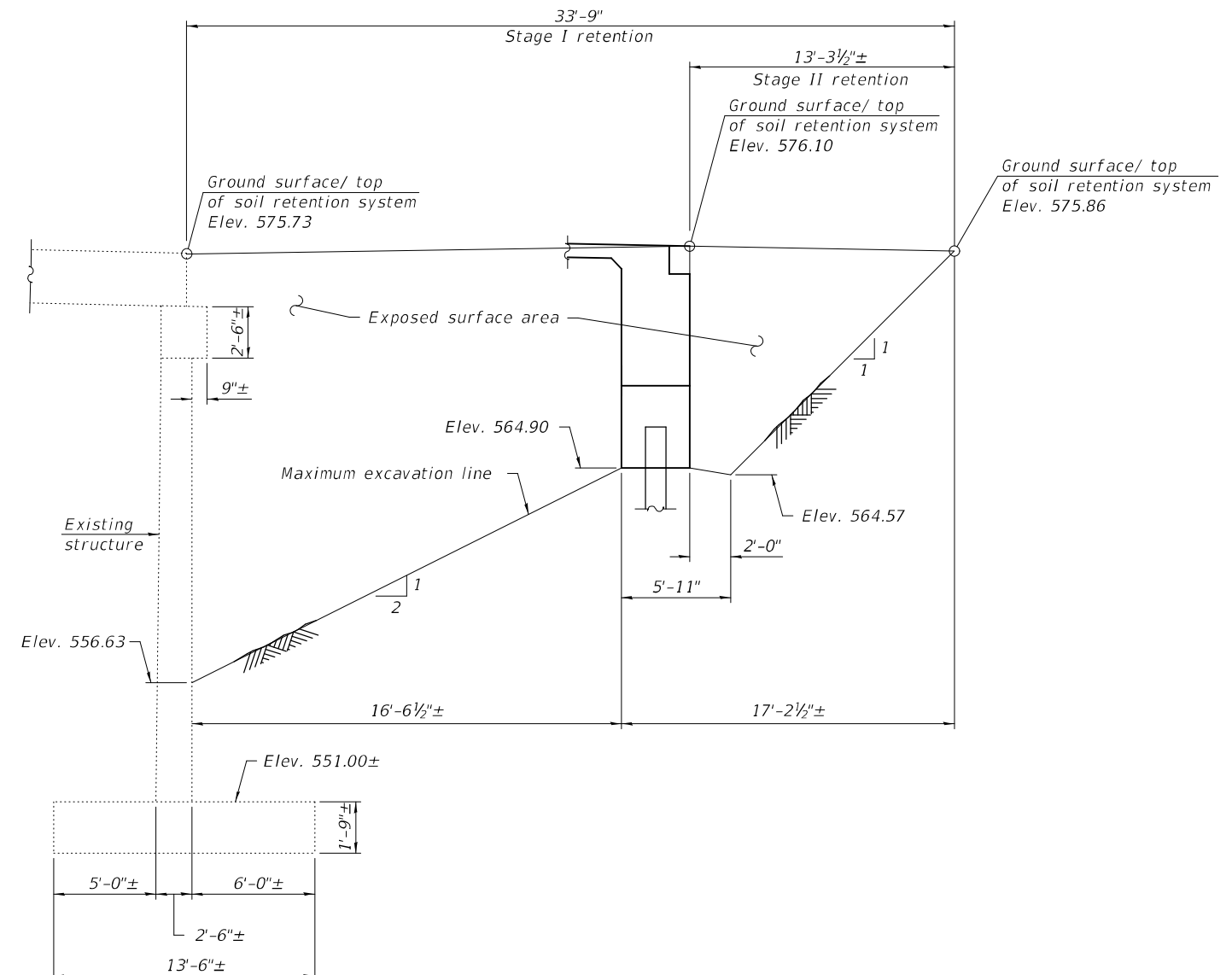
SHEET 3 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	CUMBERLAND	66	25
CONTRACT NO. 74364				
ILLINOIS FED. AID PROJECT				

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**TEMPORARY SOIL RETENTION SYSTEM
 (WEST ABUTMENT)**



**TEMPORARY SOIL RETENTION SYSTEM
 (EAST ABUTMENT)**

Note:
 A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

DESIGNED -	CRYSTAL D. STONE
CHECKED -	ADAM L. STAGGEMEYER
DRAWN -	JACQUES K. ELLOYE
CHECKED -	C.D.S. / A.L.S.

EXAMINED	<i>Jaime F. J. [Signature]</i>
PASSED	<i>Carl [Signature]</i>
	ENGINEER OF BRIDGES AND STRUCTURES

DATE -	OCTOBER 5, 2020
REVISED -	
REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

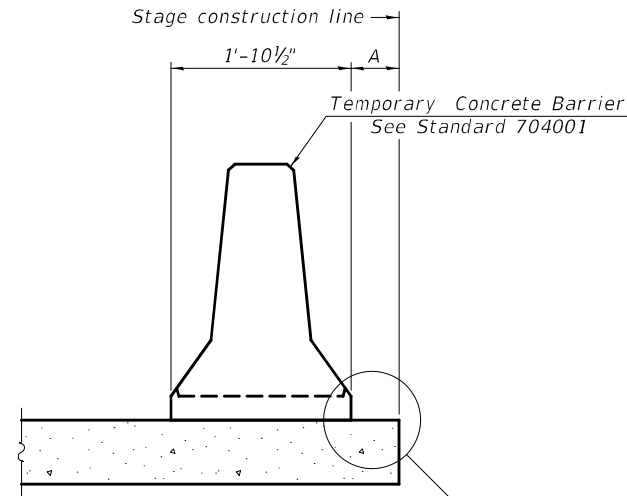
**TEMPORARY SOIL RETENTION SYSTEM
 STRUCTURE NO. 018 - 0065**

SHEET 4 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	CUMBERLAND	66	26
CONTRACT NO. 74364				
ILLINOIS		FED. AID PROJECT		

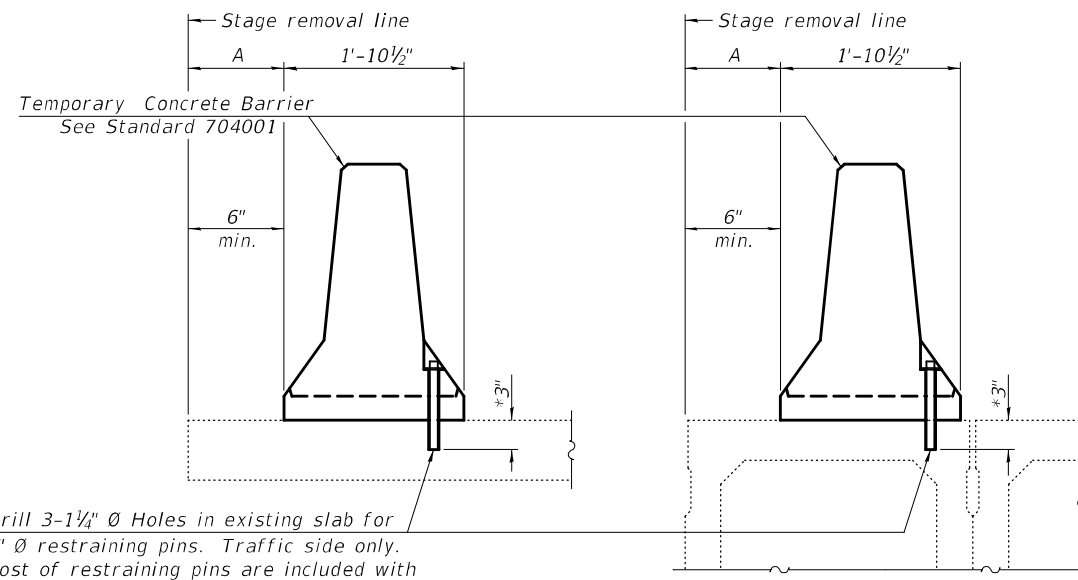
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When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM

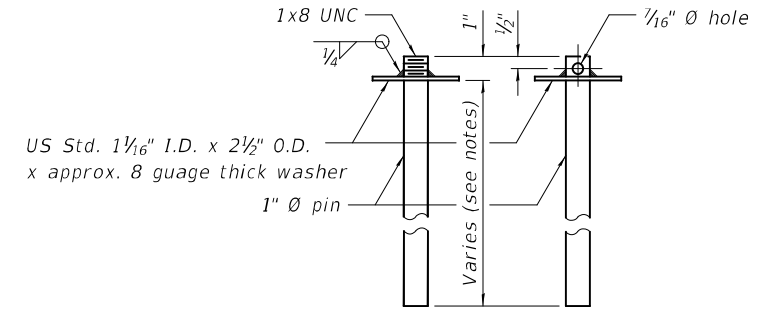


Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

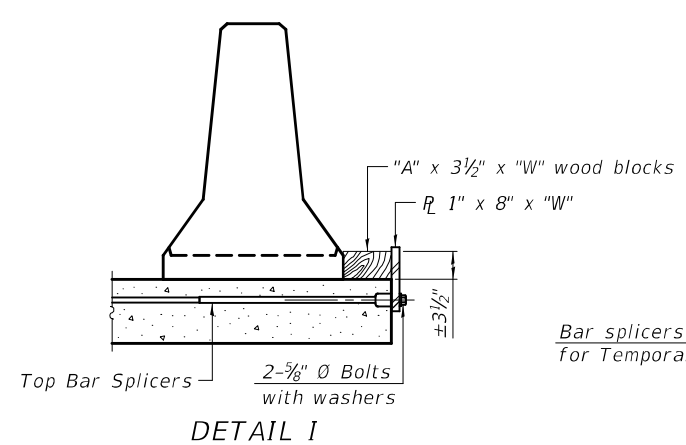
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

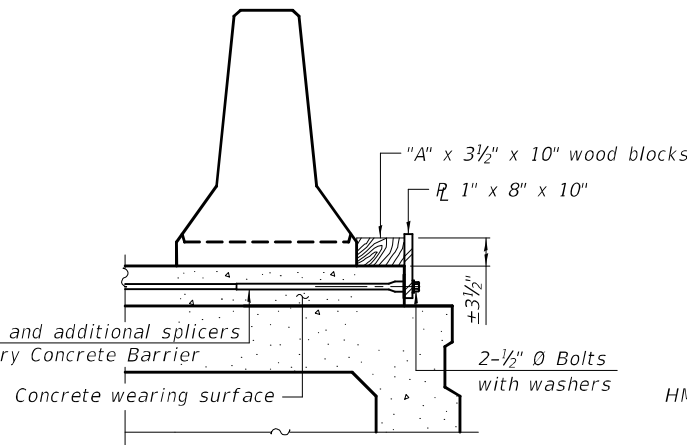


RESTRAINING PIN

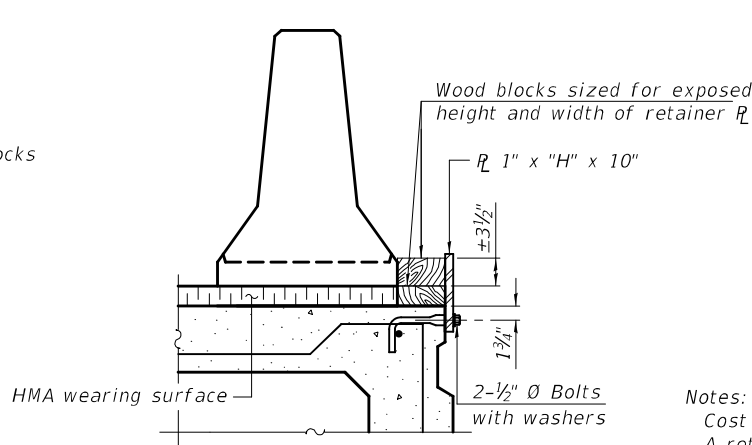
SECTIONS THRU SLAB OR DECK BEAM



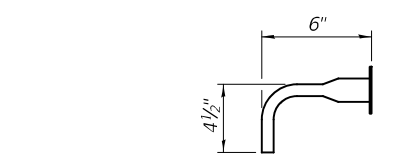
DETAIL I



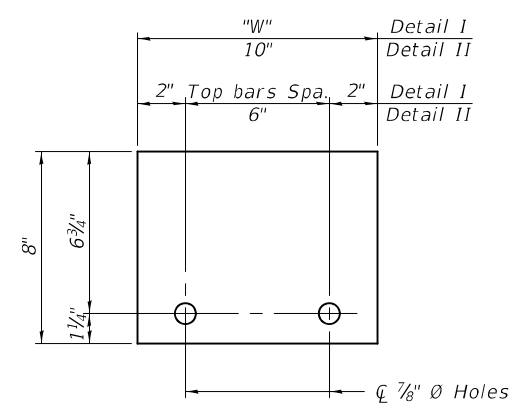
DETAIL II



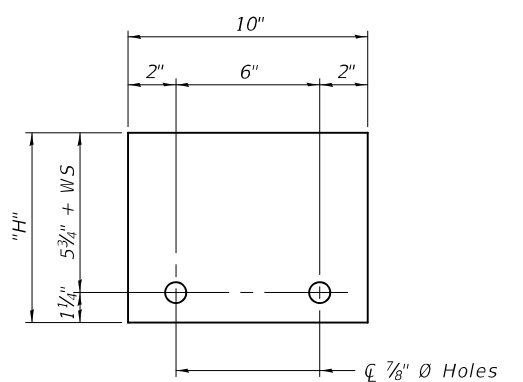
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER R 1" x 8" x "W"
(Detail I and II)



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

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate \bar{c} of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.
Detail I - Installation for a new bridge deck or bridge slab.
Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.
Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

R-27 2-17-2017

DESIGNED - CRYSTAL D. STONE	EXAMINED - <i>Joanne F. J. [Signature]</i>	DATE - OCTOBER 5, 2020
CHECKED - ADAM L. STAGGEMEYER	PASSED - <i>Carl [Signature]</i>	REVISIONS -
DRAWN - MICHAEL B. MOSSMAN	ENGINEER OF BRIDGES AND STRUCTURES	
CHECKED - C.D.S. / A.L.S.		

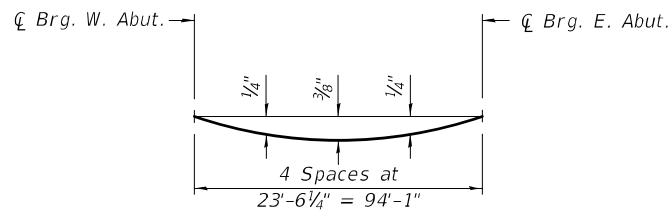
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 018 - 0065**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	CUMBERLAND	66	27
CONTRACT NO. 74364				

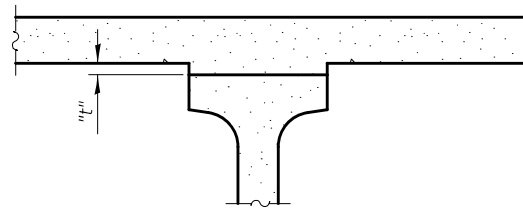
SHEET 5 OF 28 SHEETS

ILLINOIS FED. AID PROJECT



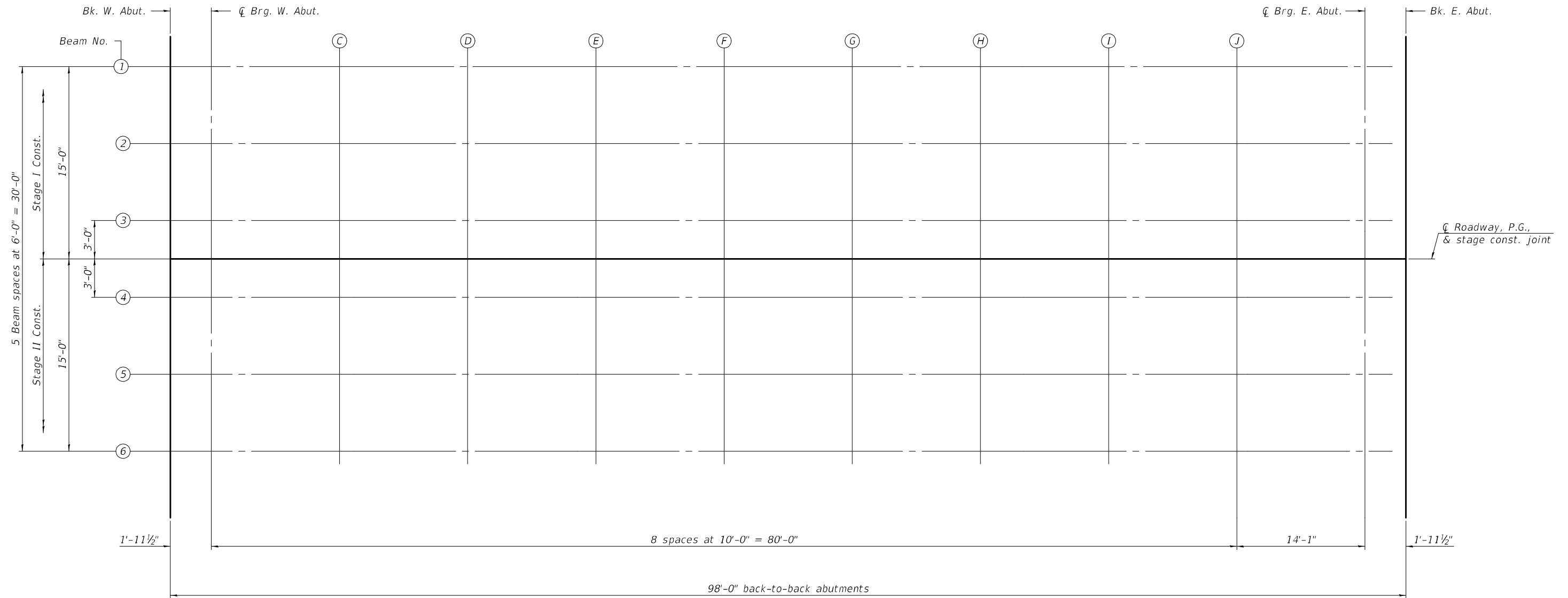
DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete, excluding beams.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheet 7 of 28.



To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown on sheet 7 of 28, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

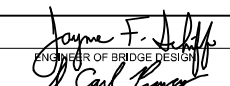

FILLET HEIGHTS



PLAN

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DESIGNED -	CRYSTAL D. STONE
CHECKED -	ADAM L. STAGGEMEYER
DRAWN -	JACQUES K. ELLOYE
CHECKED -	C.D.S. / A.L.S.

EXAMINED		DATE -	OCTOBER 5, 2020
PASSED		REVISED -	
	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 018 - 0065**

SHEET 6 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	CUMBERLAND	66	28
CONTRACT NO. 74364				
ILLINOIS		FED. AID PROJECT		

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	378+37.90	-15.00	578.01	578.01
☐ Brg. W. Abut.	378+39.86	-15.00	577.96	577.96
C	378+49.86	-15.00	577.72	577.73
D	378+59.86	-15.00	577.48	577.49
E	378+69.86	-15.00	577.24	577.27
F	378+79.86	-15.00	577.02	577.04
G	378+89.86	-15.00	576.80	576.83
H	378+99.86	-15.00	576.58	576.61
I	379+09.86	-15.00	576.38	576.40
J	379+19.86	-15.00	576.17	576.19
☐ Brg. E. Abut.	379+33.94	-15.00	575.90	575.90
Back E. Abut.	379+35.90	-15.00	575.86	575.86

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	378+37.90	-9.00	578.12	578.12
☐ Brg. W. Abut.	378+39.86	-9.00	578.07	578.07
C	378+49.86	-9.00	577.82	577.83
D	378+59.86	-9.00	577.58	577.60
E	378+69.86	-9.00	577.35	577.37
F	378+79.86	-9.00	577.12	577.15
G	378+89.86	-9.00	576.90	576.93
H	378+99.86	-9.00	576.69	576.71
I	379+09.86	-9.00	576.48	576.50
J	379+19.86	-9.00	576.28	576.29
☐ Brg. E. Abut.	379+33.94	-9.00	576.01	576.01
Back E. Abut.	379+35.90	-9.00	575.97	575.97

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	378+37.90	-3.00	578.21	578.21
☐ Brg. W. Abut.	378+39.86	-3.00	578.16	578.16
C	378+49.86	-3.00	577.91	577.92
D	378+59.86	-3.00	577.67	577.69
E	378+69.86	-3.00	577.44	577.46
F	378+79.86	-3.00	577.21	577.24
G	378+89.86	-3.00	576.99	577.02
H	378+99.86	-3.00	576.78	576.80
I	379+09.86	-3.00	576.57	576.59
J	379+19.86	-3.00	576.37	576.38
☐ Brg. E. Abut.	379+33.94	-3.00	576.10	576.10
Back E. Abut.	379+35.90	-3.00	576.06	576.06

☐ ROADWAY, P.G. & STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	378+37.90	0.00	578.25	578.25
☐ Brg. W. Abut.	378+39.86	0.00	578.20	578.20
C	378+49.86	0.00	577.96	577.97
D	378+59.86	0.00	577.72	577.73
E	378+69.86	0.00	577.48	577.51
F	378+79.86	0.00	577.26	577.28
G	378+89.86	0.00	577.04	577.07
H	378+99.86	0.00	576.82	576.85
I	379+09.86	0.00	576.62	576.64
J	379+19.86	0.00	576.41	576.43
☐ Brg. E. Abut.	379+33.94	0.00	576.14	576.14
Back E. Abut.	379+35.90	0.00	576.10	576.10

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	378+37.90	3.00	578.21	578.21
☐ Brg. W. Abut.	378+39.86	3.00	578.16	578.16
C	378+49.86	3.00	577.91	577.92
D	378+59.86	3.00	577.67	577.69
E	378+69.86	3.00	577.44	577.46
F	378+79.86	3.00	577.21	577.24
G	378+89.86	3.00	576.99	577.02
H	378+99.86	3.00	576.78	576.80
I	379+09.86	3.00	576.57	576.59
J	379+19.86	3.00	576.37	576.38
☐ Brg. E. Abut.	379+33.94	3.00	576.10	576.10
Back E. Abut.	379+35.90	3.00	576.06	576.06

BEAM 5

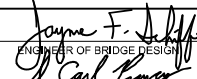
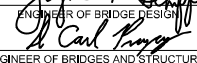
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	378+37.90	9.00	578.12	578.12
☐ Brg. W. Abut.	378+39.86	9.00	578.07	578.07
C	378+49.86	9.00	577.82	577.83
D	378+59.86	9.00	577.58	577.60
E	378+69.86	9.00	577.35	577.37
F	378+79.86	9.00	577.12	577.15
G	378+89.86	9.00	576.90	576.93
H	378+99.86	9.00	576.69	576.71
I	379+09.86	9.00	576.48	576.50
J	379+19.86	9.00	576.28	576.29
☐ Brg. E. Abut.	379+33.94	9.00	576.01	576.01
Back E. Abut.	379+35.90	9.00	575.97	575.97

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	378+37.90	15.00	578.01	578.01
☐ Brg. W. Abut.	378+39.86	15.00	577.96	577.96
C	378+49.86	15.00	577.72	577.73
D	378+59.86	15.00	577.48	577.49
E	378+69.86	15.00	577.24	577.27
F	378+79.86	15.00	577.02	577.04
G	378+89.86	15.00	576.80	576.83
H	378+99.86	15.00	576.58	576.61
I	379+09.86	15.00	576.38	576.40
J	379+19.86	15.00	576.17	576.19
☐ Brg. E. Abut.	379+33.94	15.00	575.90	575.90
Back E. Abut.	379+35.90	15.00	575.86	575.86

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DESIGNED -	CRYSTAL D. STONE
CHECKED -	ADAM L. STAGGEMEYER
DRAWN -	JACQUES K. ELLOYE
CHECKED -	C.D.S. / A.L.S.

EXAMINED	
PASSED	

DATE -	OCTOBER 5, 2020
REVISED -	
REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 018 - 0065**

SHEET 7 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	CUMBERLAND	66	29
CONTRACT NO. 74364				
ILLINOIS FED. AID PROJECT				

NORTH EDGE OF SHOULDER

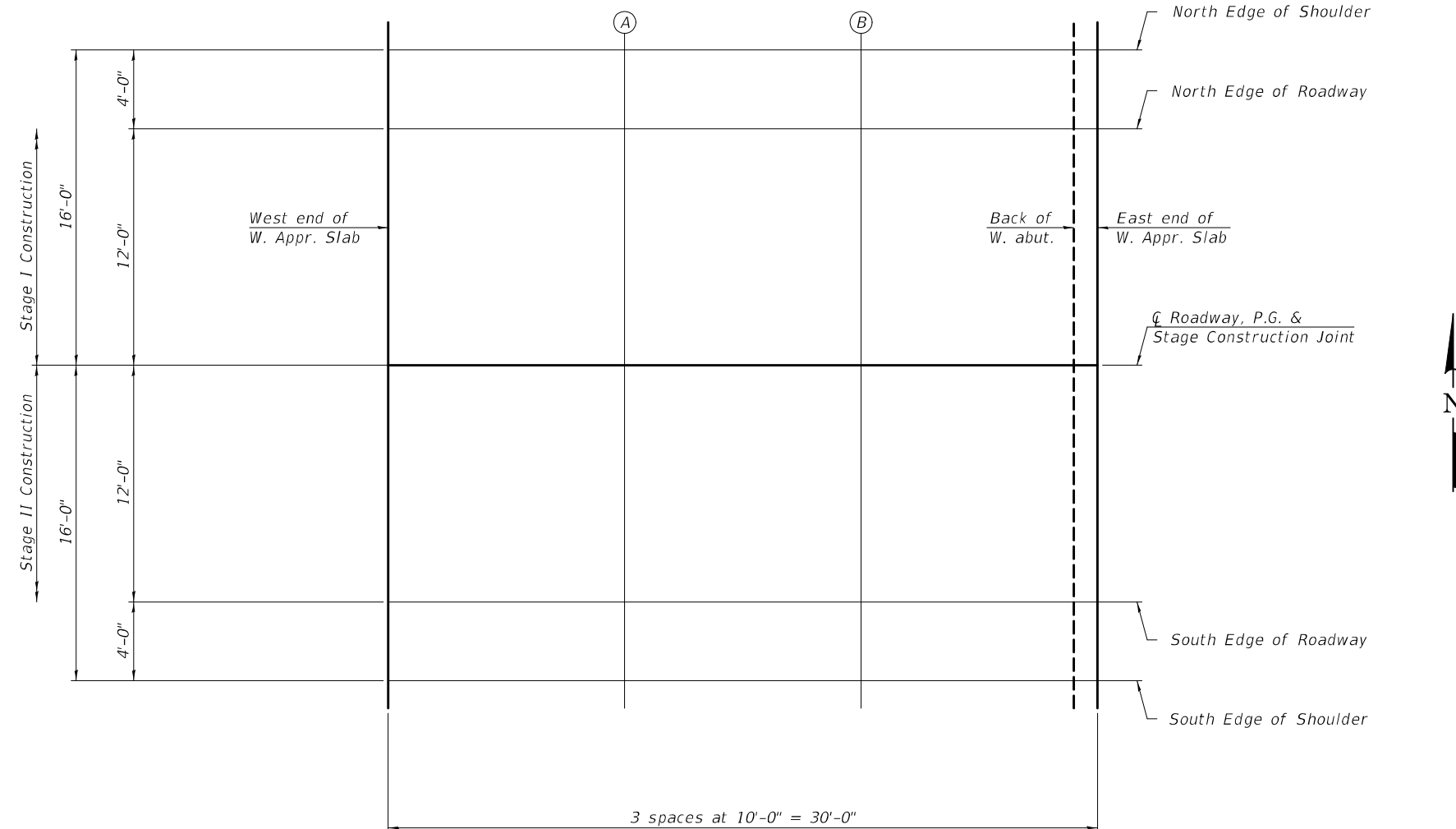
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	378+08.90	-16.00	578.74
A	378+18.90	-16.00	578.48
B	378+28.90	-16.00	578.22
E. End of W. Appr. Slab	378+38.90	-16.00	577.97

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	378+08.90	-12.00	578.82
A	378+18.90	-12.00	578.56
B	378+28.90	-12.00	578.30
E. End of W. Appr. Slab	378+38.90	-12.00	578.05

☐ ROADWAY, P.G. & STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	378+08.90	0.00	579.00
A	378+18.90	0.00	578.74
B	378+28.90	0.00	578.48
E. End of W. Appr. Slab	378+38.90	0.00	578.23



PLAN

SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	378+08.90	12.00	578.82
A	378+18.90	12.00	578.56
B	378+28.90	12.00	578.30
E. End of W. Appr. Slab	378+38.90	12.00	578.05

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	378+08.90	16.00	578.74
A	378+18.90	16.00	578.48
B	378+28.90	16.00	578.22
E. End of W. Appr. Slab	378+38.90	16.00	577.97

MODEL: 0180065-74364-008
 FILE NAME: p:\planroom\dot.illinois.gov\PWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0180065\CADD Plans\0180065-74364

DESIGNED -	CRYSTAL D. STONE
CHECKED -	ADAM L. STAGGEMEYER
DRAWN -	JACQUES K. ELLOYE
CHECKED -	C.D.S. / A.L.S.

EXAMINED	<i>Joanne F. Jaffe</i> ENGINEER OF BRIDGE DESIGN
PASSED	<i>Carl Kasper</i> ENGINEER OF BRIDGES AND STRUCTURES

DATE -	OCTOBER 5, 2020
REVISED -	
REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF WEST APPROACH SLAB ELEVATIONS
 STRUCTURE NO. 018 - 0065**

SHEET 8 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	CUMBERLAND	66	30
CONTRACT NO. 74364				
ILLINOIS		FED. AID PROJECT		

NORTH EDGE OF SHOULDER

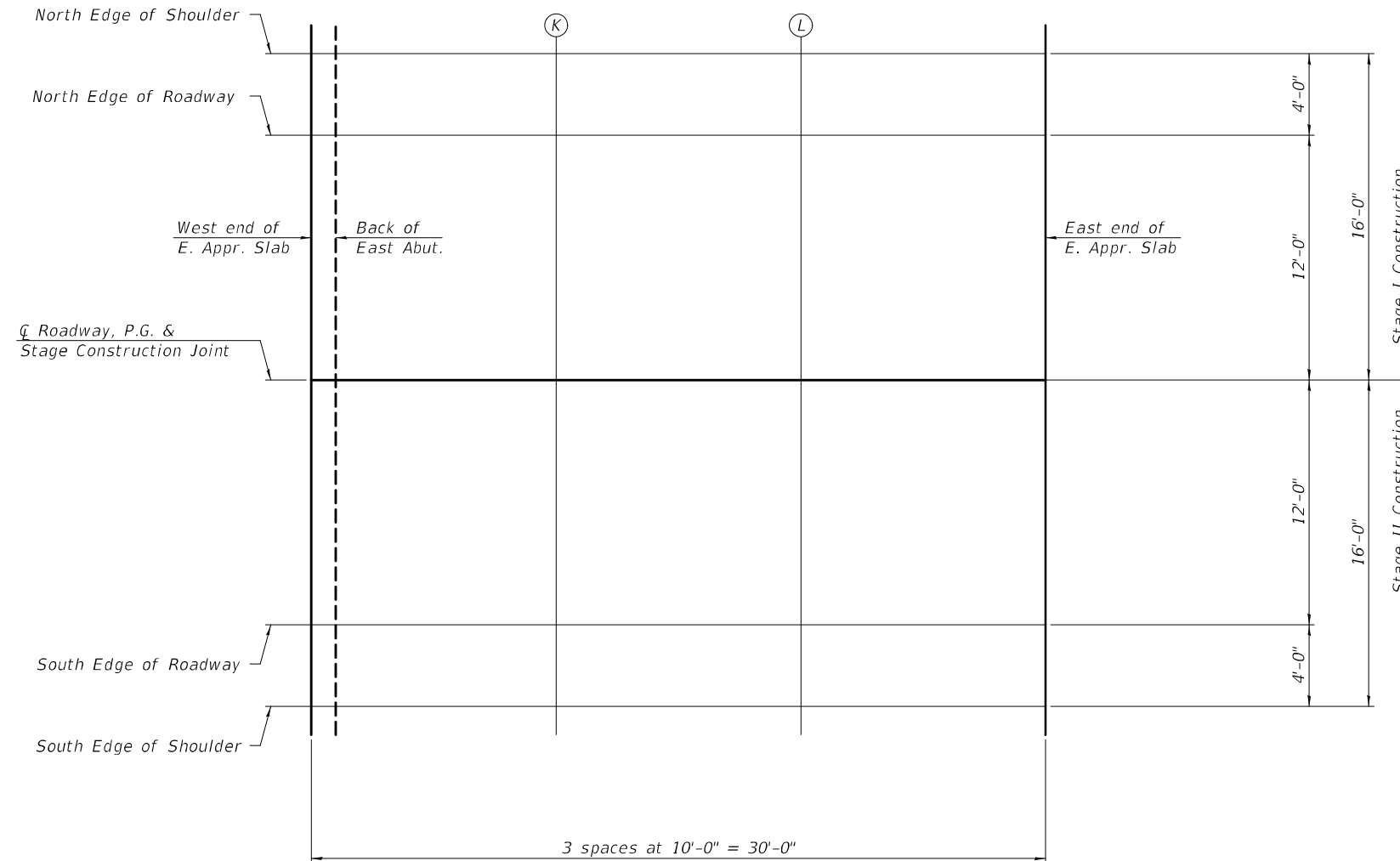
Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	379+34.90	-16.00	575.86
K	379+44.90	-16.00	575.68
L	379+54.90	-16.00	575.50
E. End of E. Appr. Slab	379+64.90	-16.00	575.33

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	379+34.90	-12.00	575.94
K	379+44.90	-12.00	575.76
L	379+54.90	-12.00	575.58
E. End of E. Appr. Slab	379+64.90	-12.00	575.41

☐ ROADWAY, P.G. & STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	379+34.90	0.00	576.12
K	379+44.90	0.00	575.94
L	379+54.90	0.00	575.76
E. End of E. Appr. Slab	379+64.90	0.00	575.59



PLAN

SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	379+34.90	12.00	575.94
K	379+44.90	12.00	575.76
L	379+54.90	12.00	575.58
E. End of E. Appr. Slab	379+64.90	12.00	575.41

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	379+34.90	16.00	575.86
K	379+44.90	16.00	575.68
L	379+54.90	16.00	575.50
E. End of E. Appr. Slab	379+64.90	16.00	575.33

MODEL: 0180065-74364-009
FILE NAME: p:\w\lanroom\dot.illinois.gov\PWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0180065\CADD Plans\0180065-74364

DESIGNED -	CRYSTAL D. STONE
CHECKED -	ADAM L. STAGGEMEYER
DRAWN -	JACQUES K. ELLOYE
CHECKED -	C.D.S. / A.L.S.

EXAMINED	<i>Joanne F. Jaffe</i> ENGINEER OF BRIDGE DESIGN
PASSED	<i>Carl Kasper</i> ENGINEER OF BRIDGES AND STRUCTURES

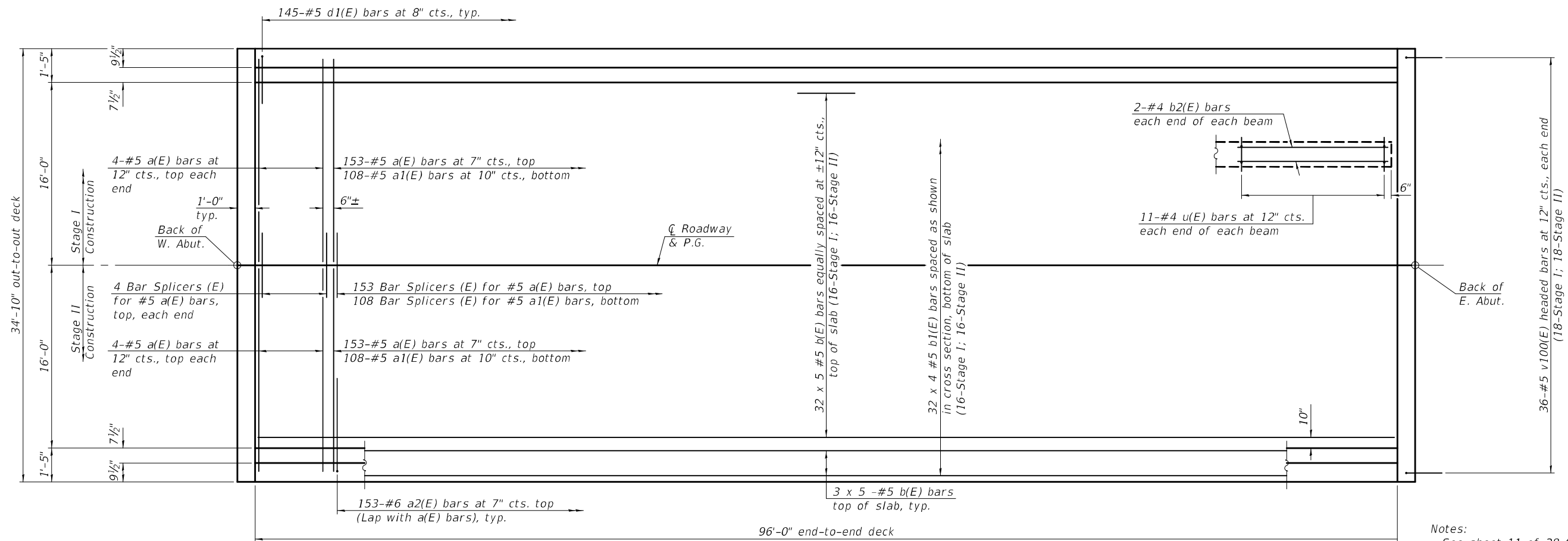
DATE -	OCTOBER 5, 2020
REVISED -	
REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 018 - 0065**

SHEET 9 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	CUMBERLAND	66	31
CONTRACT NO. 74364				
ILLINOIS		FED. AID PROJECT		

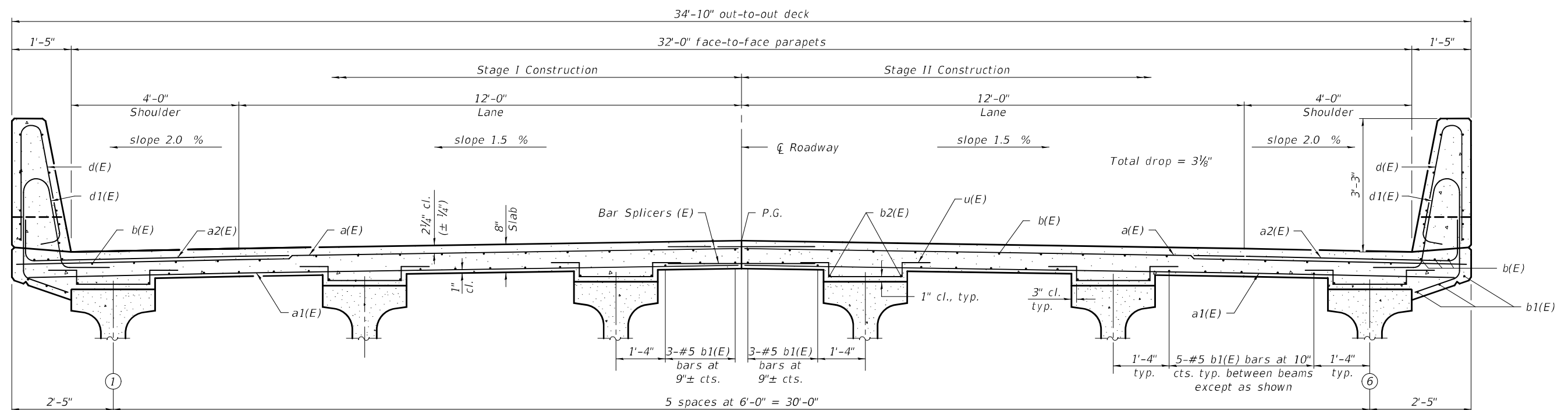


MINIMUM BAR LAP

#5 bar = 3'-6"

PLAN

Notes:
 See sheet 11 of 28 for superstructure details and Bill of Material.
 Bars indicated thus 32 x 5-#5 etc. indicates 32 lines of bars with 5 lengths per line.
 For bar splicer details, see sheet 24 of 28.



CROSS SECTION
(Looking East)

MODEL: 0180065-74364-010
 FILE NAME: p:\lanroom\dtd\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0180065\CADD Plans\0180065-74364

DESIGNED -	CRYSTAL D. STONE
CHECKED -	ADAM L. STAGGEMEYER
DRAWN -	JACQUES K. ELLOYE
CHECKED -	C.D.S. / A.L.S.

EXAMINED	<i>Joanne F. DeLoe</i> ENGINEER OF BRIDGE DESIGN
PASSED	<i>Carl R. King</i> ENGINEER OF BRIDGES AND STRUCTURES

DATE -	OCTOBER 5, 2020
REVISED -	
REVISED -	

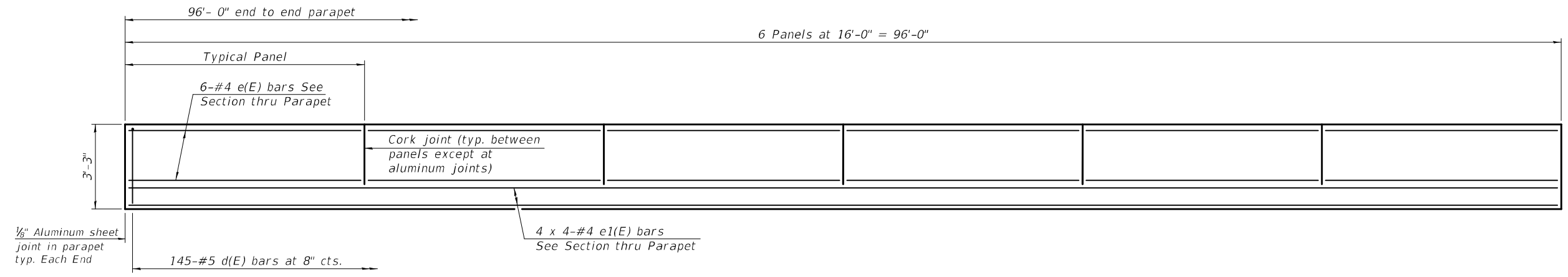
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 018 - 0065

SHEET 10 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	CUMBERLAND	66	32
CONTRACT NO. 74364				
ILLINOIS FED. AID PROJECT				

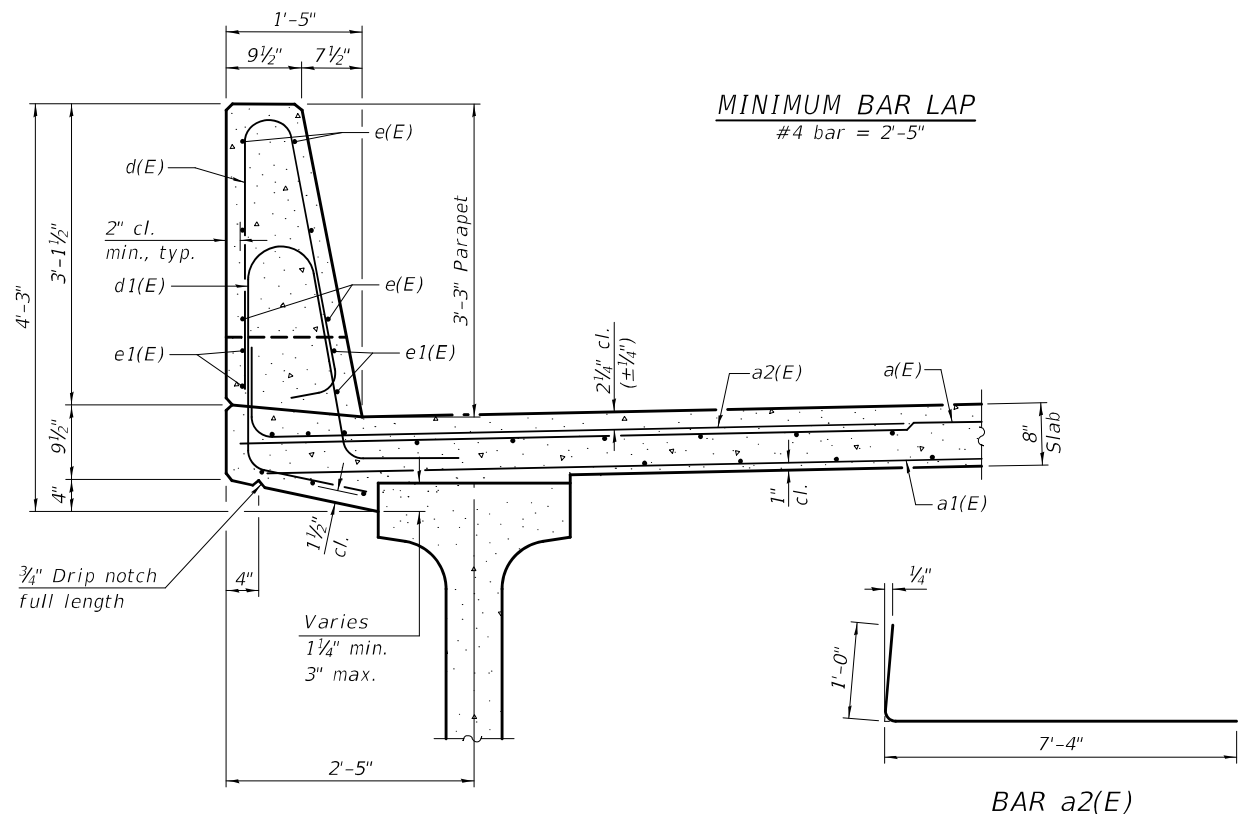
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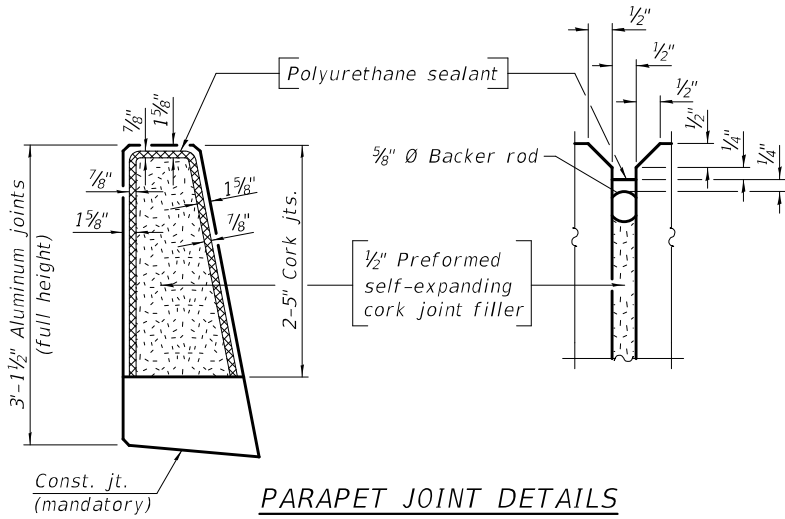
INSIDE ELEVATION OF PARAPET

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	322	#5	17'-2"	—
a1(E)	216	#5	16'-8"	—
a2(E)	306	#6	8'-4"	└
b(E)	190	#5	22'-0"	—
b1(E)	128	#5	26'-7"	—
b2(E)	24	#4	10'-6"	—
d(E)	290	#5	6'-5"	└
d1(E)	290	#5	7'-3"	└
e(E)	72	#4	15'-9"	—
e1(E)	32	#4	25'-9"	—
m(E)	28	#6	17'-2"	—
m1(E)	40	#6	4'-8"	—
m2(E)	20	#6	1'-7"	—
m3(E)	8	#6	2'-6"	—
m4(E)	36	#5	4'-0"	—
s(E)	48	#5	12'-0"	└
s1(E)	48	#5	16'-7"	└
s2(E)	48	#5	10'-8"	└
u(E)	132	#4	3'-6"	└
v100(E)	72	#5	3'-1"	└
Reinforcement Bars, Epoxy Coated		Lbs.	30,600	
Concrete Superstructure		Cu. Yds.	170.7	

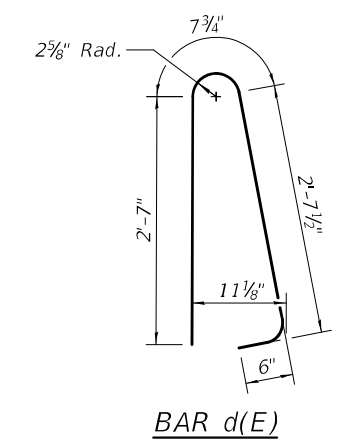


SECTION THRU PARAPET

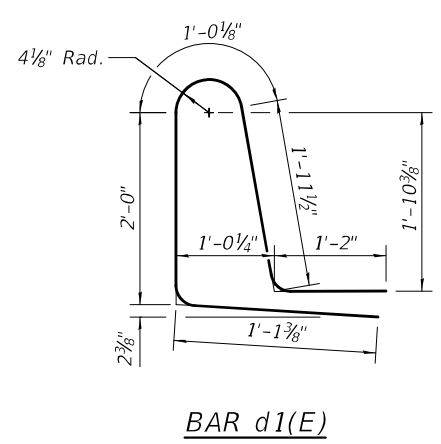


PARAPET JOINT DETAILS

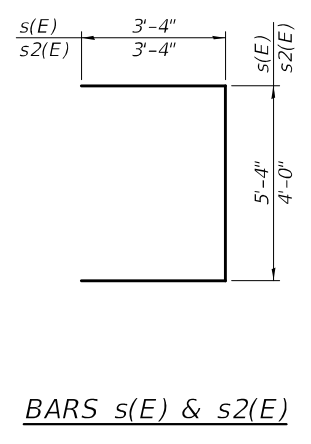
Notes:
 The 1/8" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
 The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.
 Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.



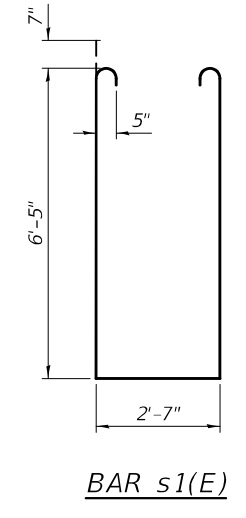
BAR d(E)



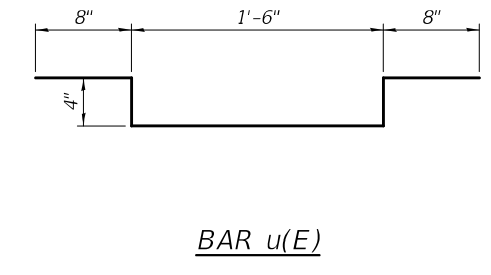
BAR d1(E)



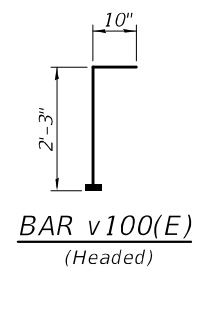
BARS s(E) & s2(E)



BAR s1(E)



BAR u(E)



BAR v100(E)
(Headed)

Bars indicated thus 1 x 3-#8 etc. indicates 1 line of bars with 3 lengths per line.

MODEL: 0180065-74364-011
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DESIGNED - CRYSTAL D. STONE	EXAMINED - <i>Joanne F. Joffe</i>	DATE - OCTOBER 5, 2020
CHECKED - ADAM L. STAGGEMEYER	PASSED - <i>Carl Perry</i>	REVISER -
DRAWN - JACQUES K. ELLOYE	ENGINEER OF BRIDGES AND STRUCTURES	REVISER -
CHECKED - C.D.S. / A.L.S.		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

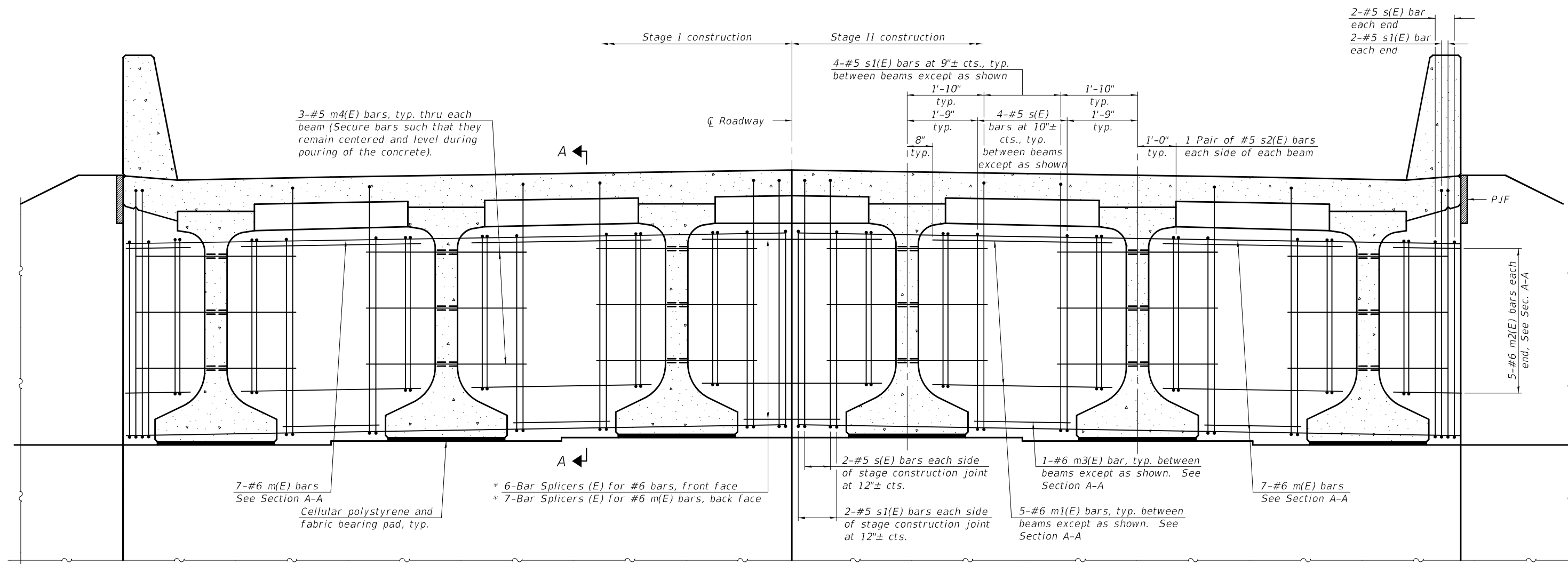
SUPERSTRUCTURE DETAILS
 STRUCTURE NO. 018 - 0065

F.A.P. RTE. 773	SECTION (108BR-2)B-1	COUNTY CUMBERLAND	TOTAL SHEETS 66	SHEET NO. 33
CONTRACT NO. 74364			ILLINOIS FED. AID PROJECT	

SHEET 11 OF 28 SHEETS

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DIAPHRAGM AT ABUTMENT
 (East Abutment shown looking East; West Abutment similar)

* See sheet 24 of 28 for bar splicer details.

DESIGNED - CRYSTAL D. STONE	EXAMINED - <i>Joanne F. Jaffe</i> ENGINEER OF BRIDGE DESIGN	DATE - OCTOBER 5, 2020
CHECKED - ADAM L. STAGGEMEYER	PASSED - <i>Carl Kreyer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - MICHAEL B. MOSSMAN		REVISED -
CHECKED - C.D.S. / A.L.S.		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

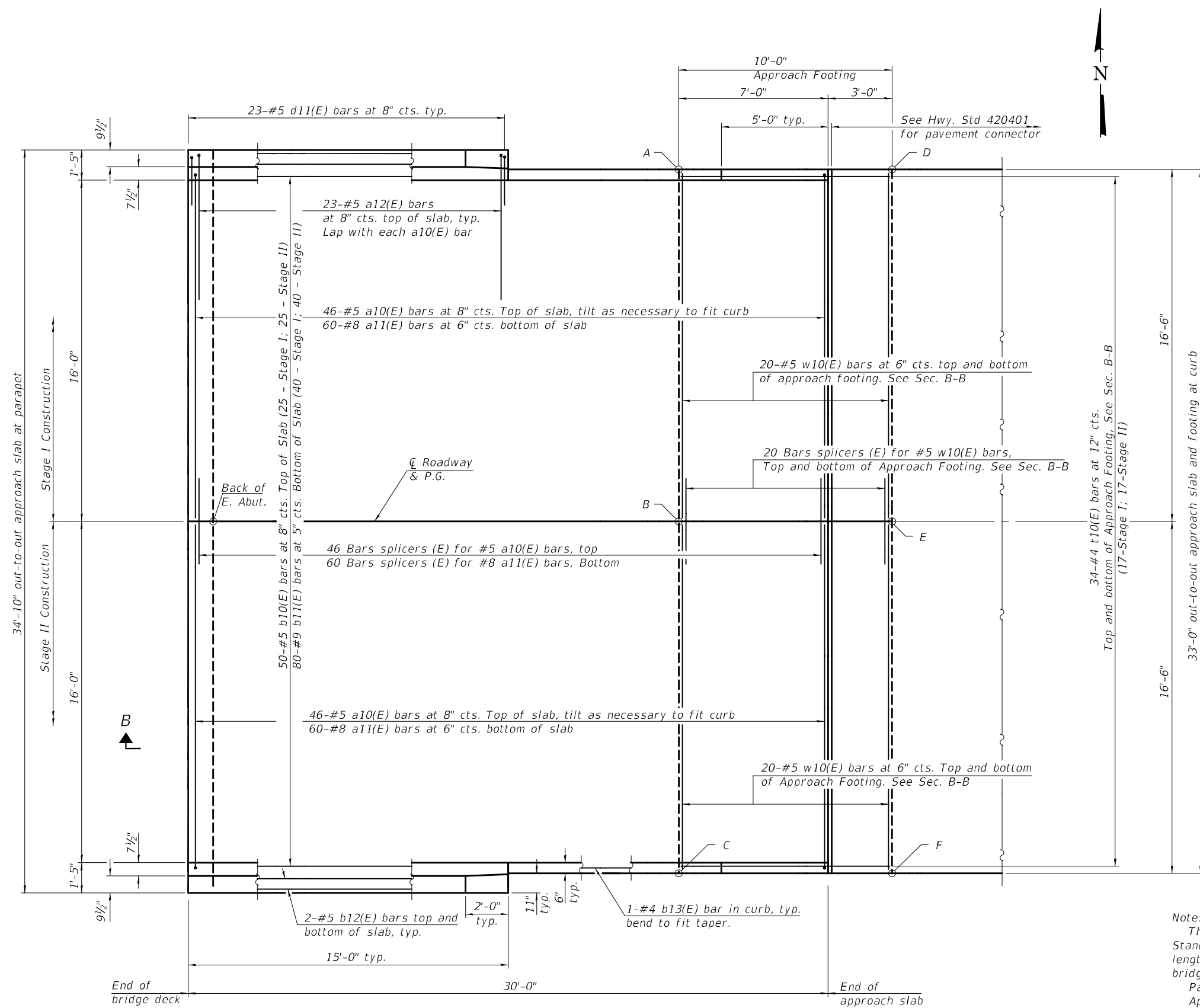
**DIAPHRAGM DETAILS
 STRUCTURE NO. 018 - 0065**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	CUMBERLAND	66	34
CONTRACT NO. 74364				
		ILLINOIS	FED. AID PROJECT	

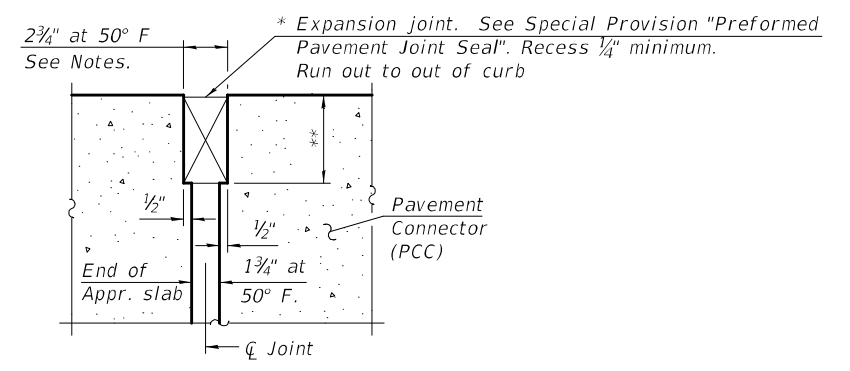
SHEET 12 OF 28 SHEETS

10/5/2020 10:06:00 AM

MODEL: 0180065-74364-014
 FILE NAME: p:\w\lanroom\dot\illinois\gov\p\w\dot\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0180065\CADD Plans\0180065-74364



PLAN
 (East Approach Shown; West Approach Similar)

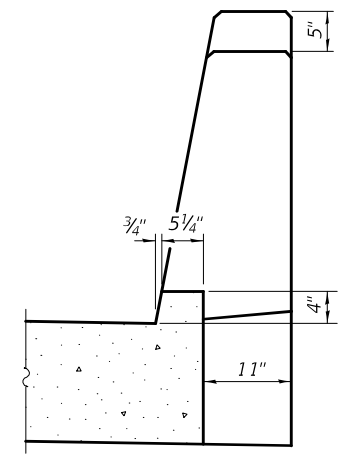


DETAIL A

* Cost included with Concrete Superstructure (Approach Slab).
 ** Per manufacturer's recommendation.

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

Point	West Approach		East Approach	
	Top	Bottom	Top	Bottom
A	577.30	576.47	574.19	573.36
B	577.57	576.74	574.46	573.63
C	577.30	576.47	574.19	573.36
D	577.56	576.73	574.01	573.18
E	577.83	577.00	574.28	573.45
F	577.56	576.73	574.01	573.18



VIEW A-A

Notes:
 The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
 Parapet concrete shall be paid for as Concrete Superstructure.
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 28.
 For bar splicer details, see sheet 24 of 28.

(Sheet 1 of 2)

DESIGNED -	CRYSTAL D. STONE
CHECKED -	ADAM L. STAGGEMEYER
DRAWN -	JACQUES K. ELLOYE
CHECKED -	C.D.S. / A.L.S.

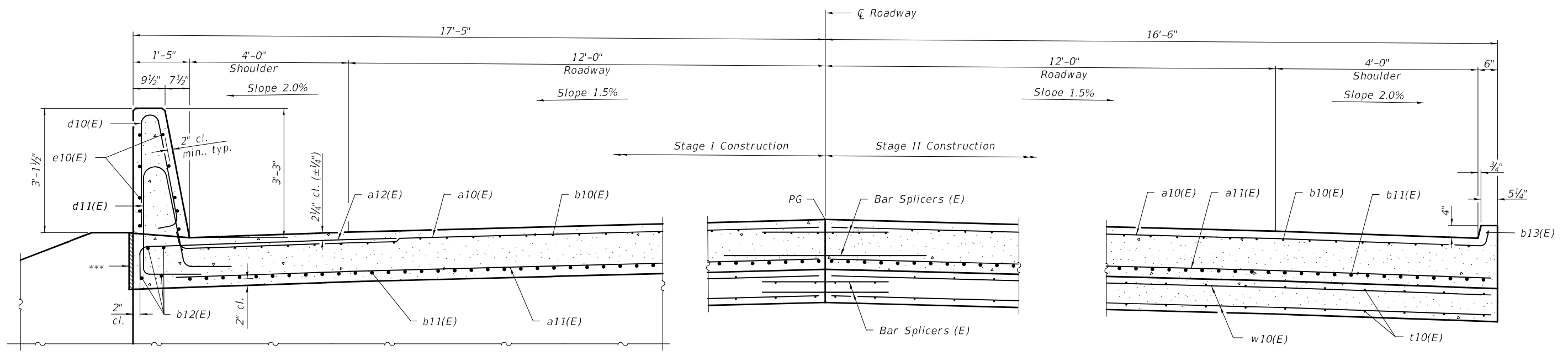
EXAMINED	<i>Joanne F. Joffe</i>	DATE -	OCTOBER 5, 2020
PASSED	<i>Carl Kasper</i>	REVISED -	
	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 018 - 0065

SHEET 14 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	CUMBERLAND	66	36
CONTRACT NO. 74364				
ILLINOIS FED. AID PROJECT				

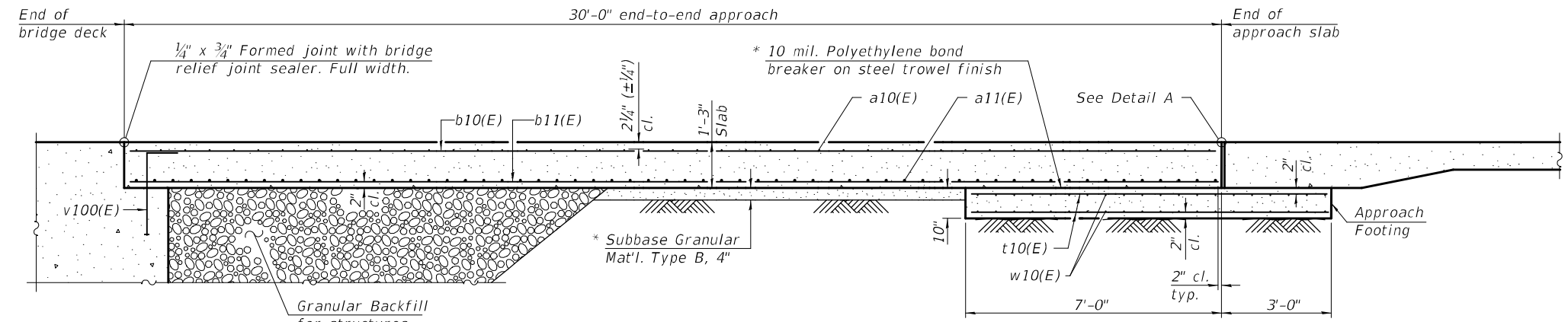


*** 2" PJF (per Article 1051.09 of the Standard Specifications) bonded to wingwall with suitable adhesive as recommended by supplier.

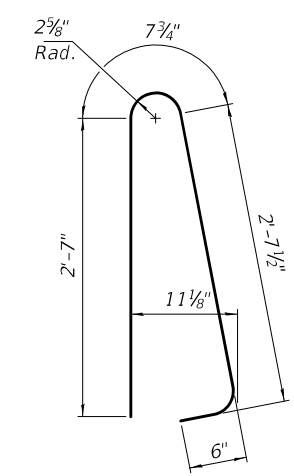
NEAR ABUTMENT

CROSS SECTION (Looking East)

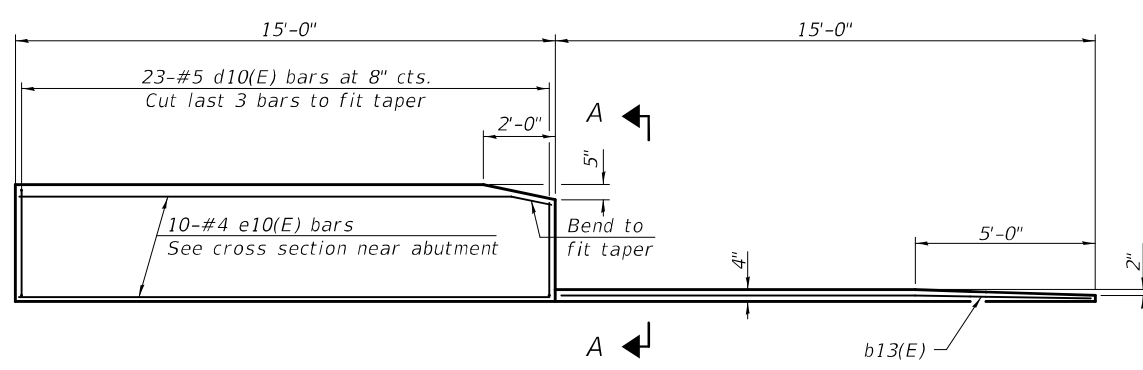
AT APPROACH FOOTING



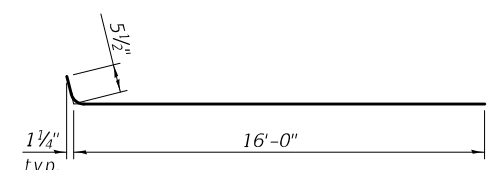
SECTION B-B



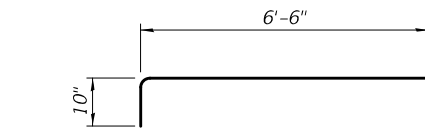
BAR d10(E)



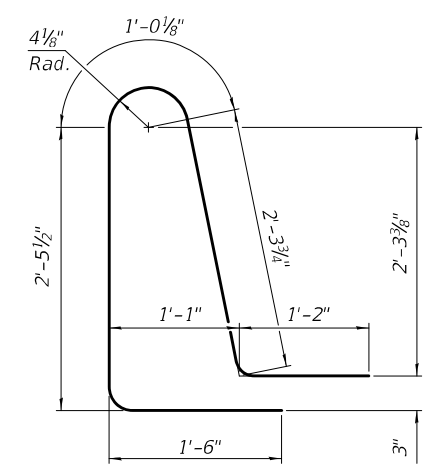
INSIDE ELEVATION OF PARAPET AND CURB



BAR a10(E)



BAR a12(E)



BAR d11(E)

TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	184	#5	16'-6"	—
a11(E)	240	#8	16'-2"	—
a12(E)	92	#5	7'-4"	—
b10(E)	100	#5	29'-8"	—
b11(E)	160	#9	29'-8"	—
b12(E)	16	#5	14'-8"	—
b13(E)	4	#4	14'-8"	—
d10(E)	92	#5	6'-5"	U
d11(E)	92	#5	8'-6"	U
e10(E)	40	#4	14'-8"	—
t10(E)	136	#4	9'-8"	—
w10(E)	160	#5	16'-2"	—
Concrete Superstructure			Cu. Yd.	7.8
Concrete Superstructure (Approach Slab)			Cu. Yd.	95.3
Concrete Structures			Cu. Yd.	20.4
Reinforcement Bars, Epoxy Coated			Pound	39,150

* Cost included with Concrete Superstructure (Approach Slab)

(Sheet 2 of 2)

MODEL: 0180065-74364-015
FILE NAME: p:\w\lanroom\dot\illinois\gov\p\w\dot\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0180065\CADD Plans\0180065-74364

DESIGNED - CRYSTAL D. STONE	EXAMINED - <i>Joanne F. Joffe</i>	DATE - OCTOBER 5, 2020
CHECKED - ADAM L. STAGGEMEYER	PASSED - <i>Carl Kasper</i>	REVISIONS
DRAWN - JACQUES K. ELLOYE		
CHECKED - C.D.S. / A.L.S.		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

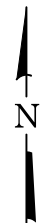
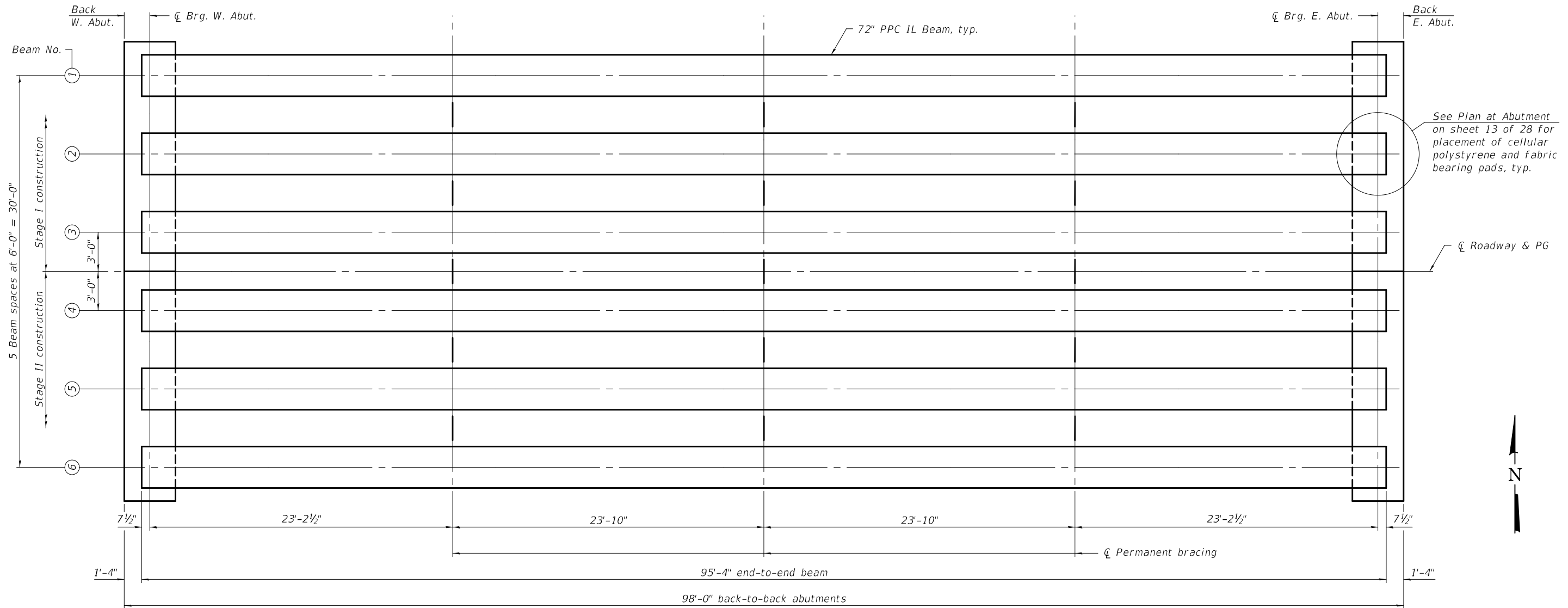
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 018 - 0065

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	CUMBERLAND	66	37
CONTRACT NO. 74364				
ILLINOIS FED. AID PROJECT				

SHEET 15 OF 28 SHEETS

10/5/2020 10:06:02 AM

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 FILE NAME: p:\work\lanroom\dot.illinois.gov\PWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0180065\CADD Plans\0180065-74364



Note:
 For permanent bracing details,
 see sheet 17 of 28.

DESIGNED -	CRYSTAL D. STONE
CHECKED -	ADAM L. STAGGEMEYER
DRAWN -	MICHAEL B. MOSSMAN
CHECKED -	C.D.S. / A.L.S.

EXAMINED	<i>Jaime F. Joffe</i> ENGINEER OF BRIDGE DESIGN
PASSED	<i>Carl Kroyer</i> ENGINEER OF BRIDGES AND STRUCTURES

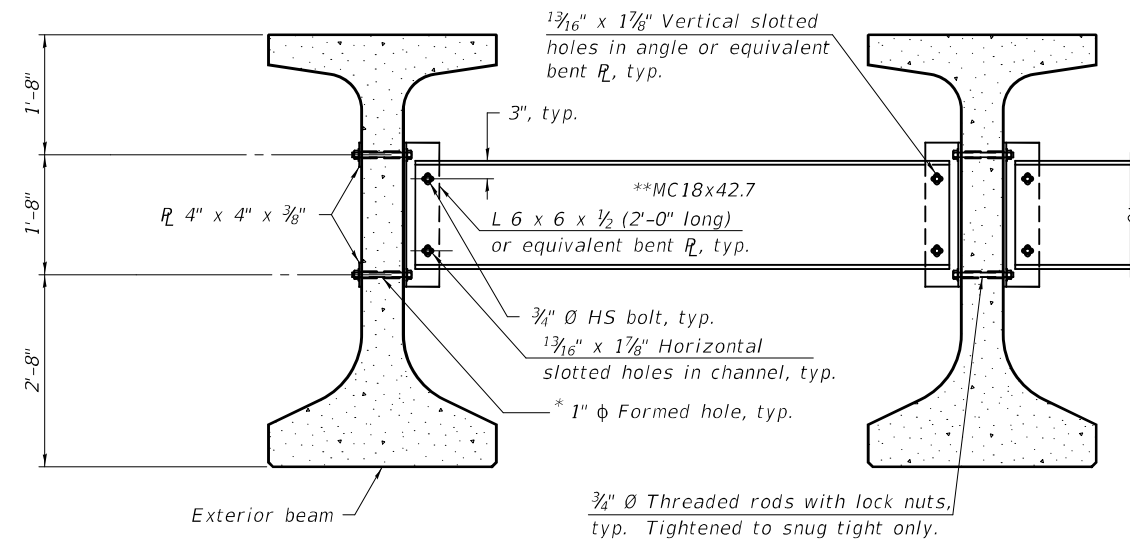
DATE -	OCTOBER 5, 2020
REVISED -	
REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

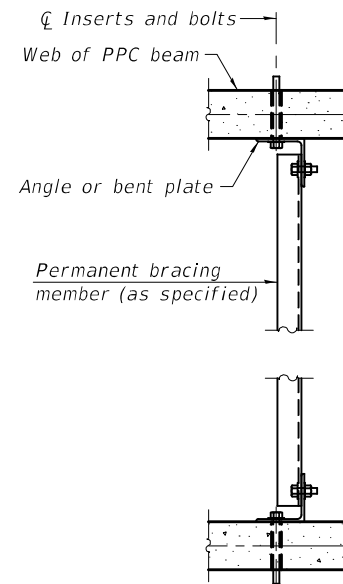
**FRAMING PLAN
 STRUCTURE NO. 018 - 0065**

SHEET 16 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	CUMBERLAND	66	38
CONTRACT NO. 74364				
ILLINOIS		FED. AID PROJECT		



ELEVATION



PLAN

INTERIOR BEAM MOMENT TABLE		
0.5 Span		
I	(in ⁴)	624,180
I'	(in ⁴)	1,328,348
S _b	(in ³)	21,237.8
S _b '	(in ³)	30,107.6
S _t	(in ³)	14,648.6
S _t '	(in ³)	47,645.2
DC1	(k/ft)	1.671
MDC1	(k')	1,849.5
DC2	(k/ft)	0.150
MDC2	(k')	166.0
DW	(k/ft)	0.300
MDW	(k')	332.1
M _L + I _M	(k')	1,566.2

INTERIOR BEAM REACTION TABLE		
Abut.		
RDC1	(k)	78.6
RDC2	(k)	7.1
RDW	(k)	14.1
R _L + I _M	(k)	78.1
R _{Total}	(k)	177.9

PERMANENT BRACING DETAILS

- * Fabricator shall locate to miss strands within permissible tolerances.
- ** Alternate MC18x45.8 channels are permitted to facilitate material acquisition.

Notes:

All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted. Two hardened washers are required for each set of oversized holes.
 All holes shall be 1 3/16" Ø unless otherwise noted. 3/16" x 3" x 3" plate washers are required over all slotted holes.
 All bolts, threaded rods, and hardware shall be galvanized according to AASHTO M232.
 Threaded rods shall be ASTM F 1554 Grade 55.
 Bracing shall be installed as beams are erected and tightened as soon as possible during erection.
 Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete Beams, IL72N.

- I: Non-composite moment of inertia of beam section (in⁴).
- I': Composite moment of inertia of beam section (in⁴).
- S_b: Non-composite section modulus for the bottom fiber of the prestressed beam (in³).
- S_b': Composite section modulus for the bottom fiber of the prestressed beam (in³).
- S_t: Non-composite section modulus for the top fiber of the prestressed beam (in³).
- S_t': Composite section modulus for the top fiber of the prestressed beam (in³).
- DC1: Un-factored non-composite dead load (kips/ft.).
- MDC1: Un-factored moment due to non-composite dead load (kip-ft.).
- DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
- MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
- DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
- MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- M_L + I_M: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

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 FILE NAME: p:\work\lanroom\dot.illinois.gov\p\p\DOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0180065\CADD Plans\0180065-74364

DESIGNED -	CRYSTAL D. STONE
CHECKED -	ADAM L. STAGGEMEYER
DRAWN -	JACQUES K. ELLOYE
CHECKED -	C.D.S. / A.L.S.

EXAMINED		DATE -	OCTOBER 5, 2020
PASSED		REVISED -	
	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

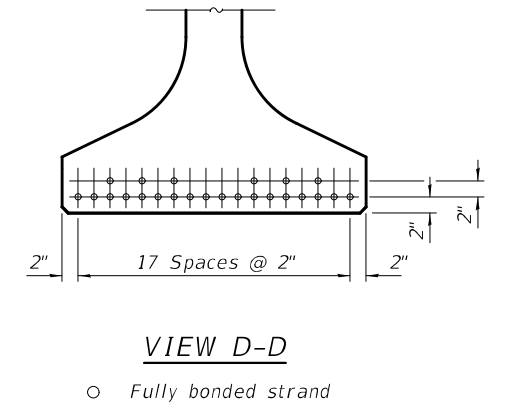
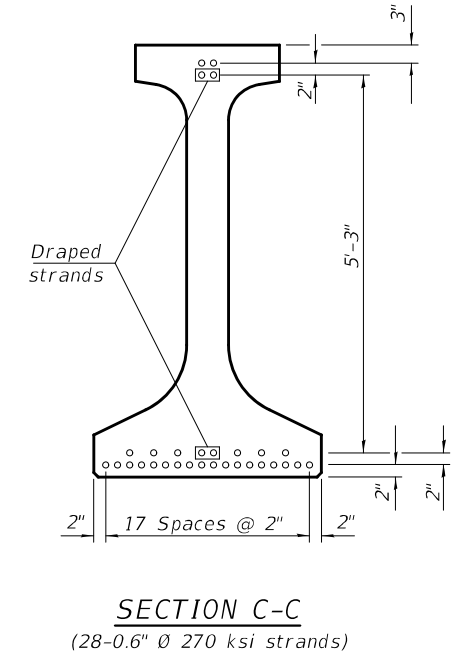
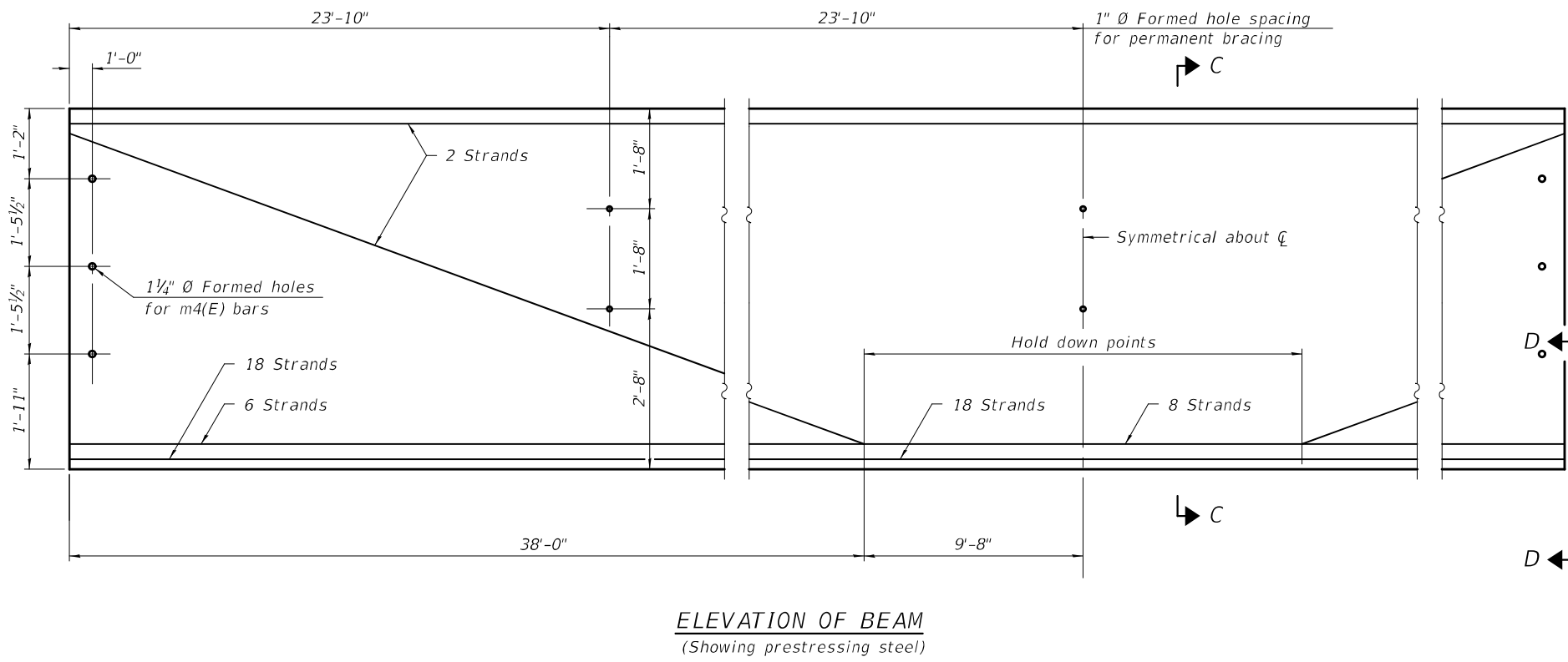
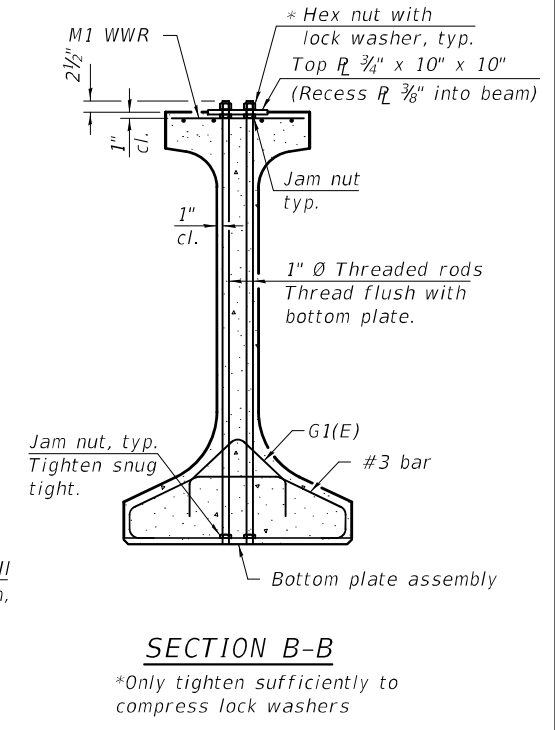
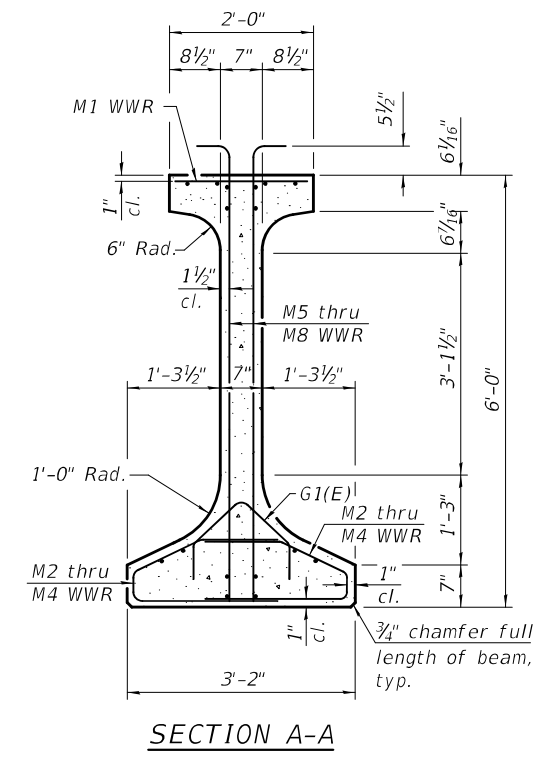
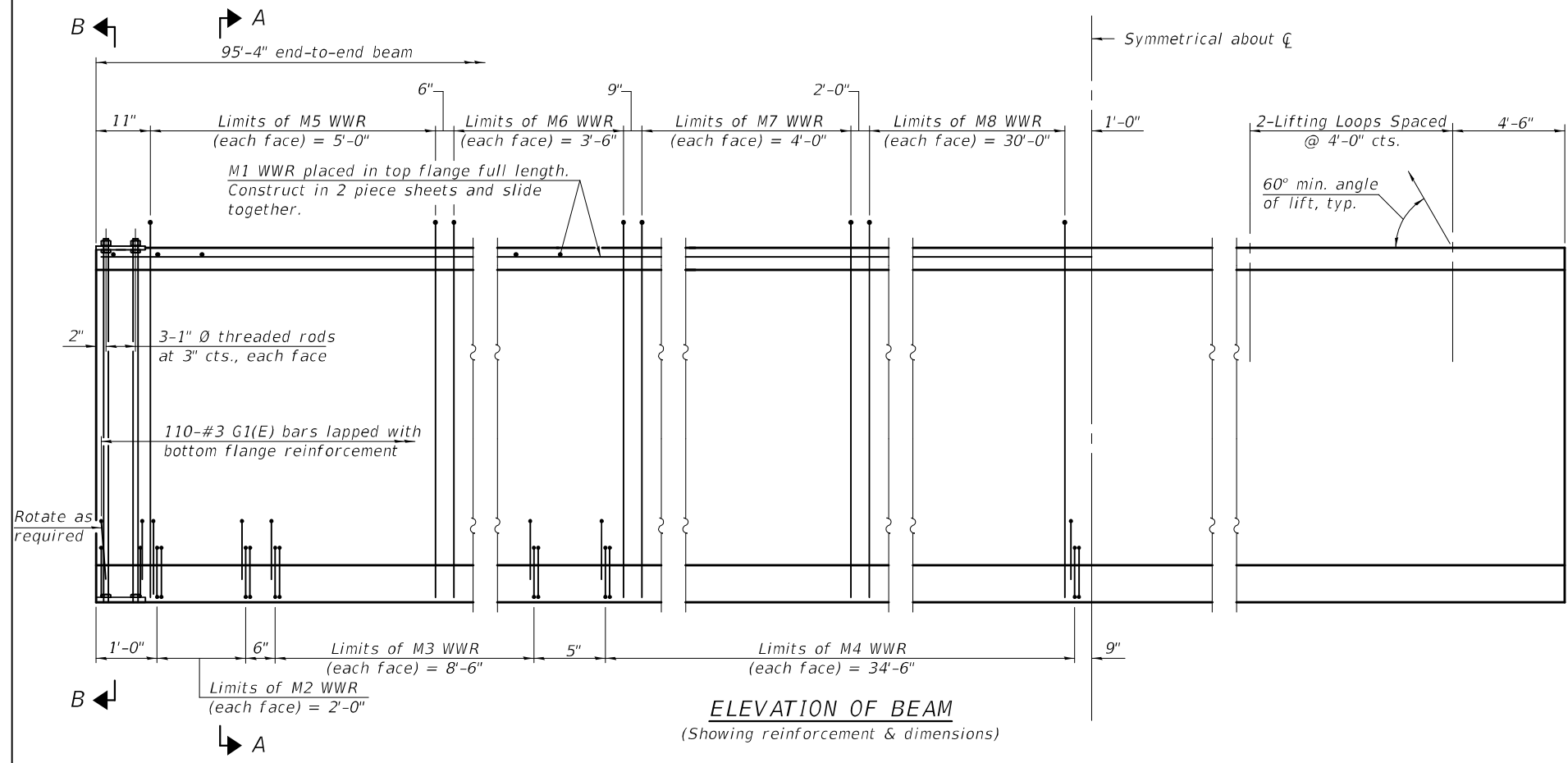
FRAMING DETAILS
 STRUCTURE NO. 018 - 0065

SHEET 17 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	CUMBERLAND	66	39
CONTRACT NO. 74364				
ILLINOIS FED. AID PROJECT				

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MODEL: 0180065-74364-018
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Note:
 See sheet 19 of 28 for additional details and Bill of Material.

DESIGNED - CRYSTAL D. STONE	EXAMINED - <i>Joanne F. J. [Signature]</i>	DATE - OCTOBER 5, 2020
CHECKED - ADAM L. STAGGEMEYER	PASSED - <i>Carl [Signature]</i>	REVISOR -
DRAWN - JACQUES K. ELLOYE	ENGINEER OF BRIDGES AND STRUCTURES	REVISION -
CHECKED - C.D.S. / A.L.S.		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL72N BEAM
STRUCTURE NO. 018 - 0065

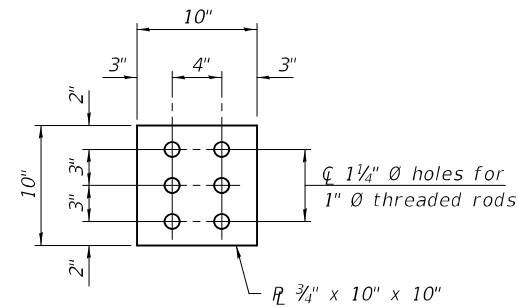
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CONTRACT NO. 74364				
ILLINOIS FED. AID PROJECT				

SHEET 18 OF 28 SHEETS

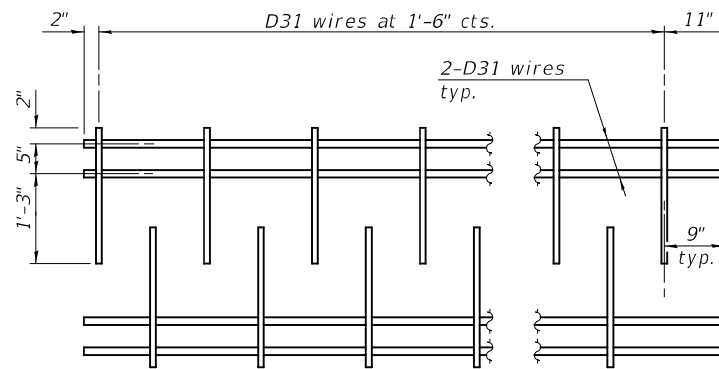
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NOTES

Inserts for 3/4" Ø threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams. Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter for beam strands shall be 0.6" and the nominal cross-sectional area shall be 0.217 sq. in. The nominal diameter for lifting loops shall be 1/2" and the nominal cross sectional area shall be 0.153 sq. in. The beams shall have a final concrete compressive strength, f'c, of 8500 psi and a release concrete compressive strength, f'ci, of 7000 psi. A minimum 2 1/2" Ø lifting pin shall be used to engage the lifting loops during handling. The top and bottom plates shall be galvanized according to AASHTO M270 Grade 50. The top plates and bottom plate assemblies shall be galvanized according to AASHTO M111. The threaded rods, nuts and washers shall be galvanized according to AASHTO M232. Threaded rods shall be ASTM F 1554 Grade 55. Welded Wire Reinforcement (WWR) shall conform to ASTM A884 with a Class A, Type 1 epoxy coating or ASTM A 1060, Table 3 galvanized coating.

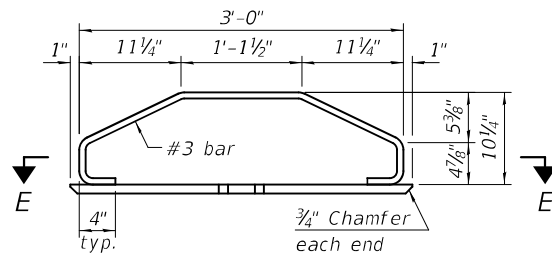


PLAN - TOP PLATE

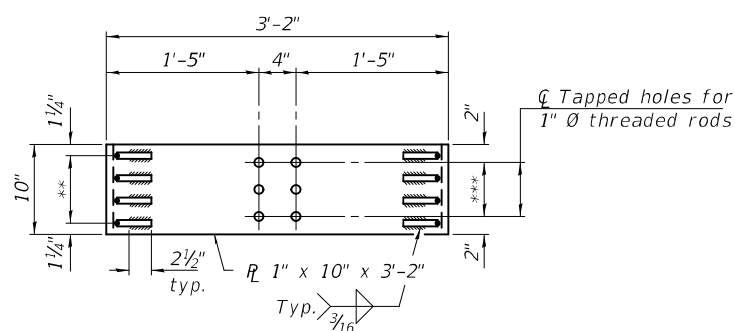


M1 WWR DETAIL

When multiple sheets of M1 WWR are required along the beam length, #5(E) bars (5'-0" long) shall be used to splice the longitudinal D31 wires together (Min. Lap 2'-2").



ELEVATION - BOTTOM PLATE ASSEMBLY



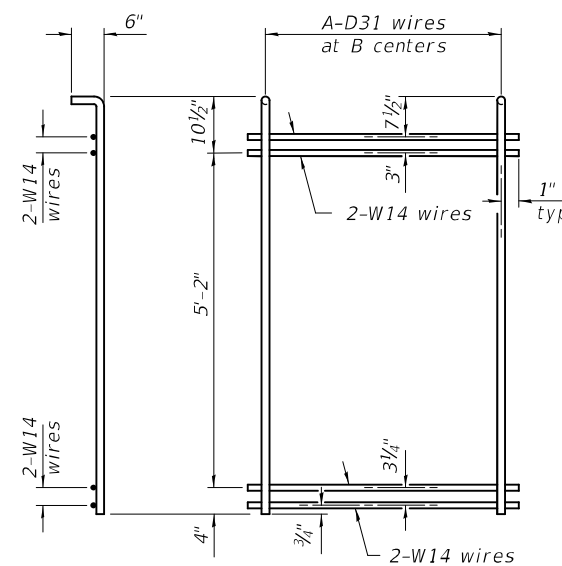
SECTION E-E

** 3 Spaces at 2 1/2" = 7 1/2"
*** 2 Spaces at 3" = 6"

TABLE OF DIMENSIONS

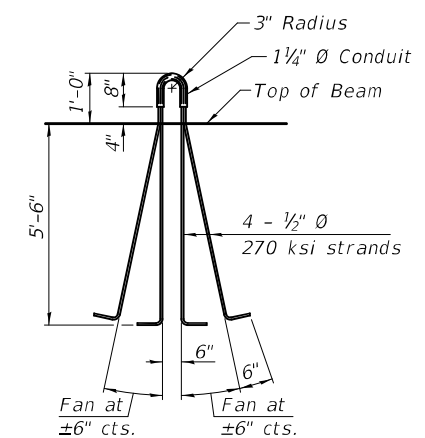
SPAN 1

WWR	A	B
M2	9	3"
M3	18	6"
M4	24	1'-6"
M5	21	3"
M6	8	6"
M7	5	1'-0"
M8	16	2'-0"

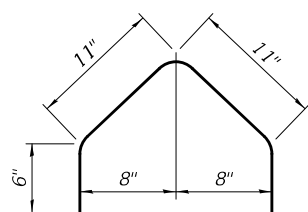


M5 THRU M8 WWR DETAIL

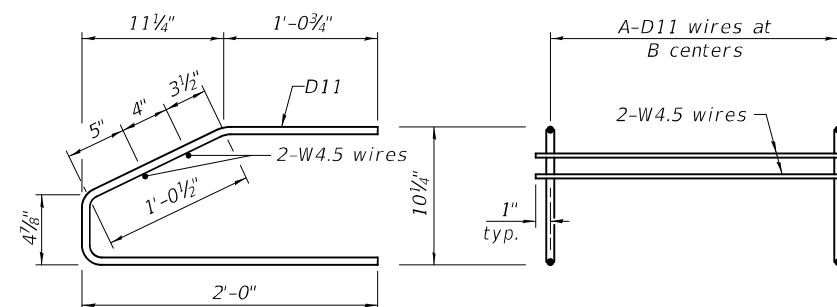
(See Table of Dimensions)



LIFTING LOOP DETAIL



BAR G1(E)



M2 THRU M4 WWR DETAIL

(See Table of Dimensions)

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Beams, IL72N	Ft.	572.0

MODEL: 0180065-74364-019
FILE NAME: p:\lanroom\dot\illinois\gov\p\DOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0180065-74364

DESIGNED - CRYSTAL D. STONE
CHECKED - ADAM L. STAGGEMEYER
DRAWN - JACQUES K. ELLOYE
CHECKED - C.D.S. / A.L.S.

EXAMINED
PASSED
ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES

DATE - OCTOBER 5, 2020
REVISED -
REVISED -

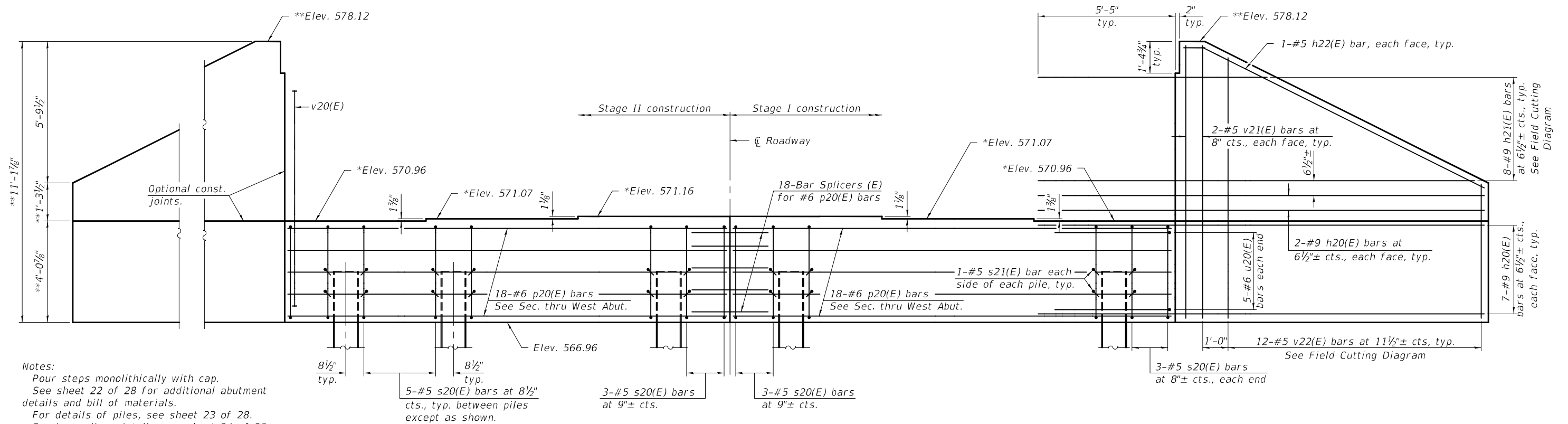
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL72N BEAM DETAILS
STRUCTURE NO. 018 - 0065**

SHEET 19 OF 28 SHEETS

F.A.P. RTE. 773
SECTION (108BR-2)B-1
COUNTY CUMBERLAND
TOTAL SHEETS 66
SHEET NO. 41
CONTRACT NO. 74364
ILLINOIS FED. AID PROJECT

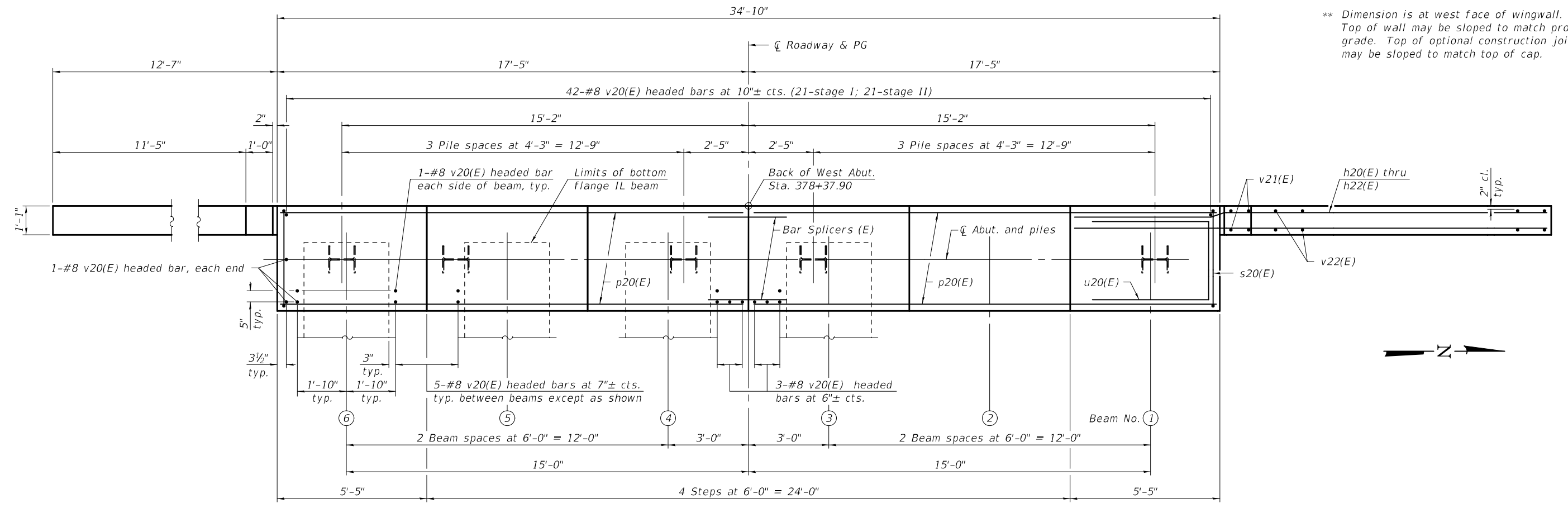
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Notes:
 Pour steps monolithically with cap.
 See sheet 22 of 28 for additional abutment details and bill of materials.
 For details of piles, see sheet 23 of 28.
 For bar splicer details, see sheet 24 of 28.

ELEVATION
 (Looking West)

* At \bar{C} Abutment.
 ** Dimension is at west face of wingwall. Top of wall may be sloped to match profile grade. Top of optional construction joint may be sloped to match top of cap.



PLAN

MODEL: 0180065-74364-020
 FILE NAME: p:\w\lanroom\dot.illinois.gov\PWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0180065\CADD Plans\0180065-74364

DESIGNED - CRYSTAL D. STONE	EXAMINED - <i>Joanne F. J. [Signature]</i>	DATE - OCTOBER 5, 2020
CHECKED - ADAM L. STAGGEMEYER	PASSED - <i>Carl [Signature]</i>	REVISOR -
DRAWN - MICHAEL B. MOSSMAN	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -
CHECKED - C.D.S. / A.L.S.		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

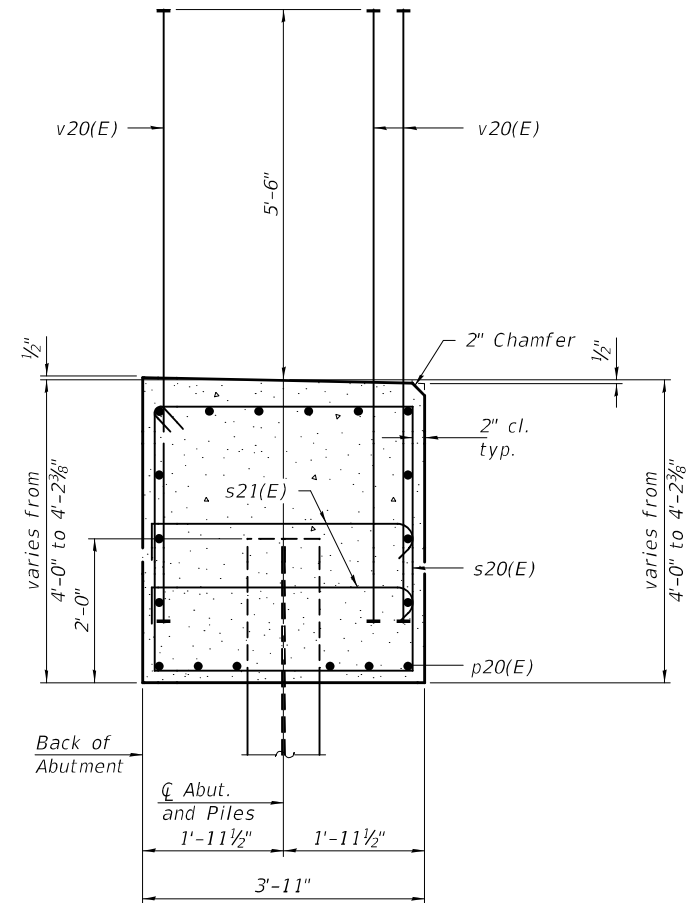
WEST ABUTMENT
STRUCTURE NO. 018 - 0065

SHEET 20 OF 28 SHEETS

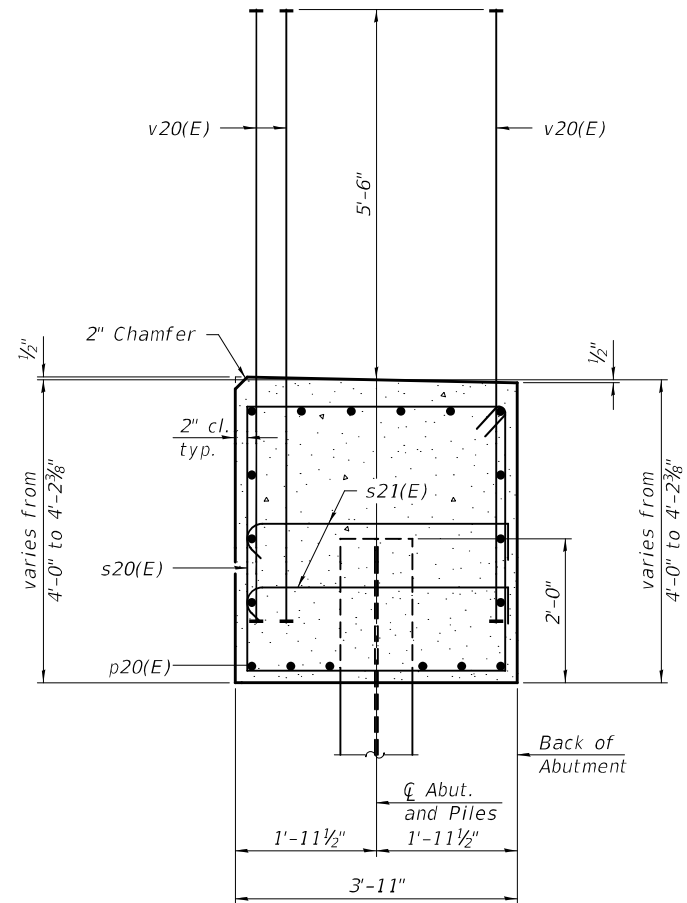
F.A.P. RTE. 773	SECTION (108BR-2)B-1	COUNTY CUMBERLAND	TOTAL SHEETS 66	SHEET NO. 42
CONTRACT NO. 74364			ILLINOIS FED. AID PROJECT	

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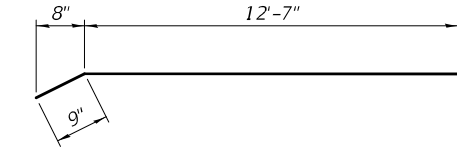
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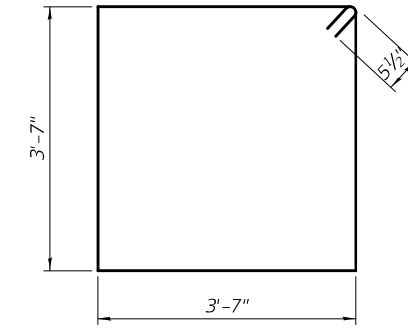
SECTION THRU WEST ABUTMENT



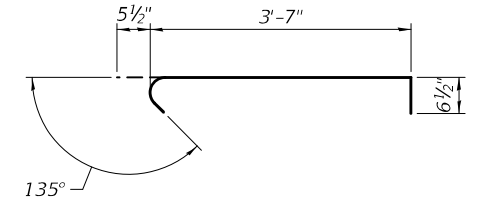
SECTION THRU EAST ABUTMENT



BAR h22(E)



BAR s20(E)



BAR s21(E)

WEST ABUTMENT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h20(E)	36	#9	17'-10"	—
h21(E)	16	#9	26'-3"	—
h22(E)	4	#5	13'-4"	—
p20(E)	36	#6	17'-2"	—
s20(E)	42	#5	15'-3"	□
s21(E)	32	#5	4'-7"	┌
u20(E)	10	#6	12'-1"	□
v20(E)	86	#8	9'-3"	—
v21(E)	8	#5	10'-8"	—
v22(E)	24	#5	15'-4"	—
Structure Excavation			Cu. Yd.	49
Concrete Structures			Cu. Yd.	29.4
Reinforcement Bars, Epoxy Coated			Pound	8,190
Furnishing Steel Piles, HP12x53			Foot	480
Driving Piles			Foot	480

WEST ABUTMENT
PILE DATA

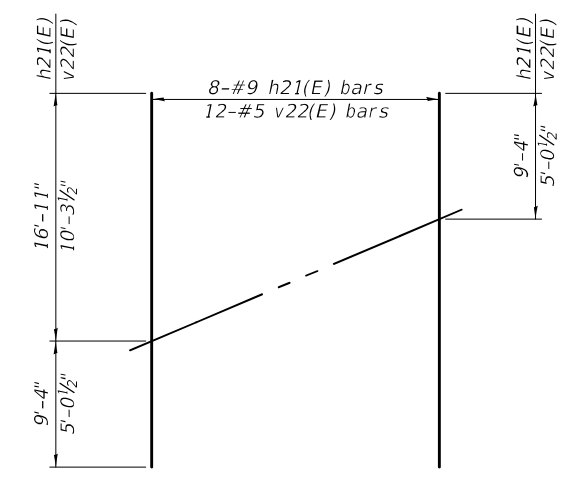
Type: HP 12 x 53
 Nominal Required Bearing: 418 Kips
 Factored Resistance Available: 229 Kips
 Est. Length: 60 ft.
 No. Production Piles: 8
 No. Test Piles: 0

EAST ABUTMENT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h20(E)	36	#9	17'-10"	—
h21(E)	16	#9	26'-3"	—
h22(E)	4	#5	13'-4"	—
p20(E)	36	#6	17'-2"	—
s20(E)	42	#5	15'-3"	□
s21(E)	32	#5	4'-7"	┌
u20(E)	10	#6	12'-1"	□
v20(E)	86	#8	9'-3"	—
v21(E)	8	#5	10'-8"	—
v22(E)	24	#5	15'-4"	—
Structure Excavation			Cu. Yd.	49
Concrete Structures			Cu. Yd.	29.3
Reinforcement Bars, Epoxy Coated			Pound	8,190
Furnishing Steel Piles, HP12x53			Foot	420
Driving Piles			Foot	420
Test Pile Steel HP12x53			Each	1

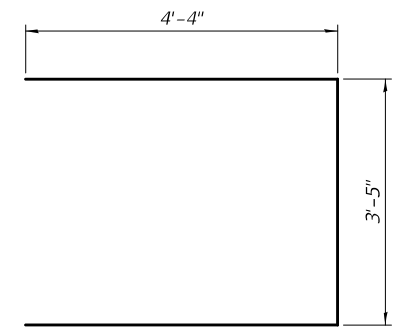
EAST ABUTMENT
PILE DATA

Type: HP 12 x 53
 Nominal Required Bearing: 418 Kips
 Factored Resistance Available: 229 Kips
 Est. Length: 60 ft.
 No. Production Piles: 7
 No. Test Piles: 1

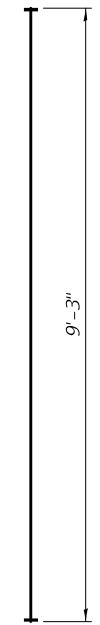


FIELD CUTTING DIAGRAM

Order h21(E) and v22(E) bars full length. Cut as shown and use remainder of bars in opposite face.



BAR u20(E)



BAR v20(E)
(Headed)

Notes:
 Pour steps monolithically with cap.
 Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
 For details of piles see sheet 23 of 28.

DESIGNED - CRYSTAL D. STONE	EXAMINED - <i>Joanne F. J. [Signature]</i>	DATE - OCTOBER 5, 2020
CHECKED - ADAM L. STAGGEMEYER	PASSED - <i>Carl [Signature]</i>	REVISIONS -
DRAWN - MICHAEL B. MOSSMAN	ENGINEER OF BRIDGES AND STRUCTURES	REVISIONS -
CHECKED - C.D.S. / A.L.S.		

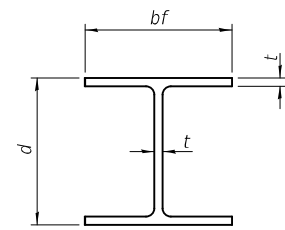
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT DETAILS
STRUCTURE NO. 018 - 0065

SHEET 22 OF 28 SHEETS

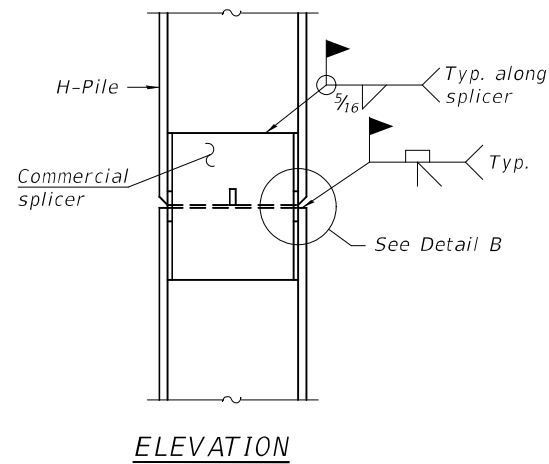
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	CUMBERLAND	66	44
CONTRACT NO. 74364				

ILLINOIS FED. AID PROJECT

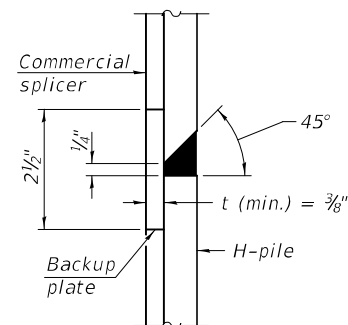


STEEL PILE TABLE

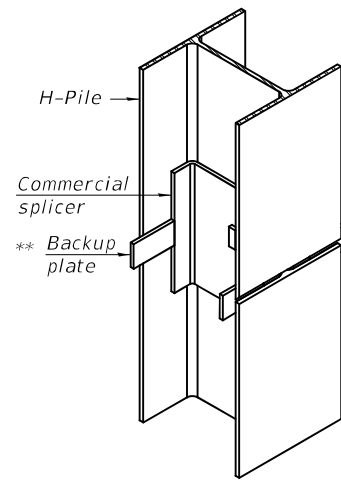
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 3/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

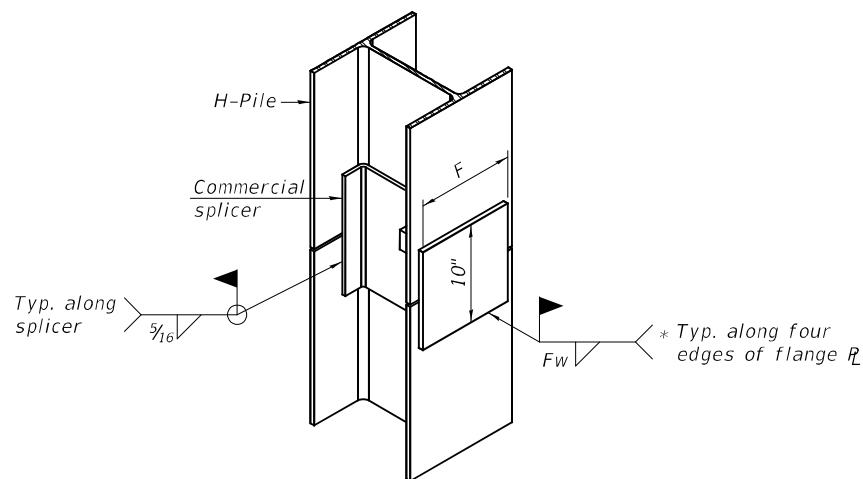


DETAIL "B"



ISOMETRIC VIEW

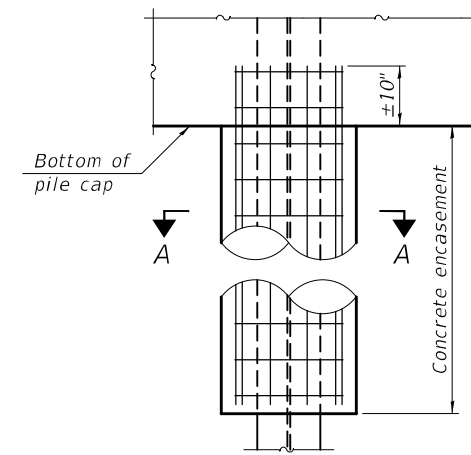
WELDED COMMERCIAL SPLICE



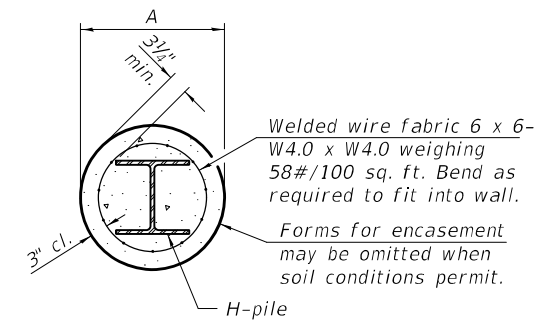
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

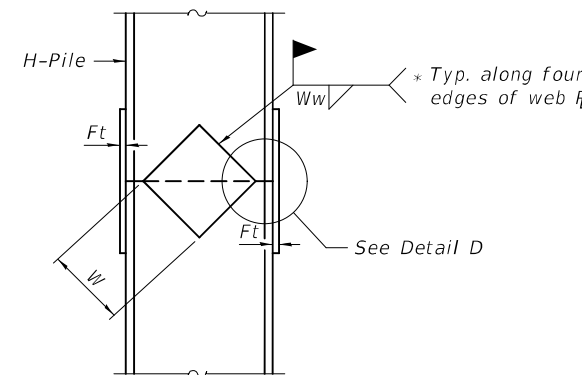


ELEVATION

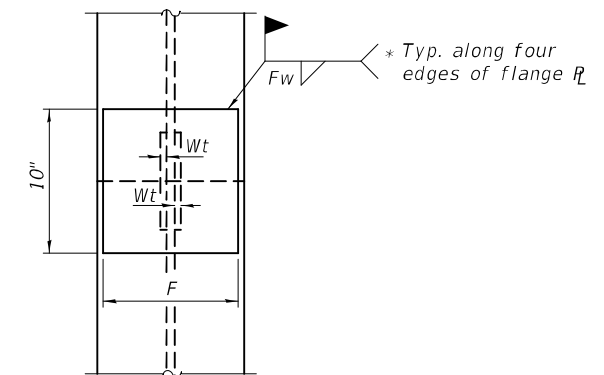


SECTION A-A

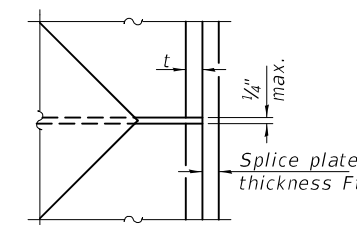
INDIVIDUAL PILE CONCRETE ENCASUREMENT (when specified)



ELEVATION



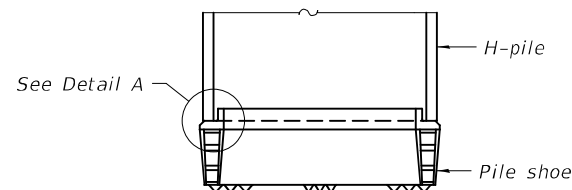
END VIEW



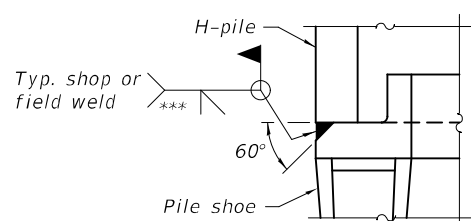
DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"



ELEVATION



DETAIL A

SHOE ATTACHMENT

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

F-HP 1-1-2020

DESIGNED - CRYSTAL D. STONE	EXAMINED
CHECKED - ADAM L. STAGGEMEYER	PASSED
DRAWN - MICHAEL B. MOSSMAN	
CHECKED - C.D.S. / A.L.S.	

DATE - OCTOBER 5, 2020	ENGINEER OF BRIDGE DESIGN
REVISIONS	ENGINEER OF BRIDGES AND STRUCTURES

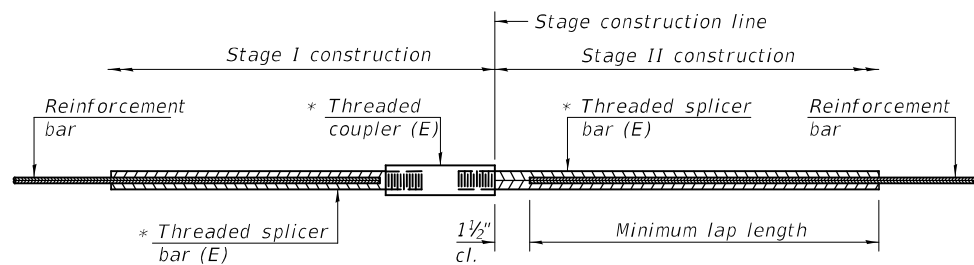
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 018 - 0065

SHEET 23 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	CUMBERLAND	66	45
CONTRACT NO. 74364				

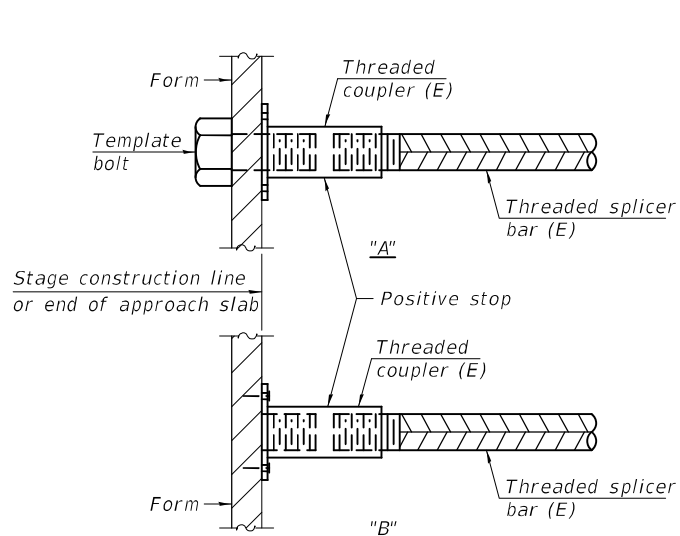
ILLINOIS FED. AID PROJECT



STANDARD BAR SPLICER ASSEMBLY

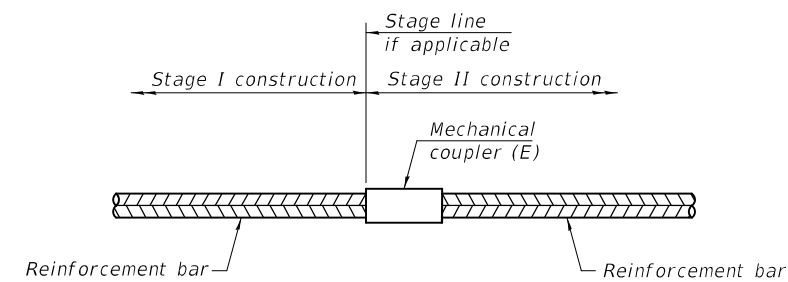
Threaded splicer bar length = min. lap length + 1 1/2" + thread length

* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.



INSTALLATION AND SETTING METHODS

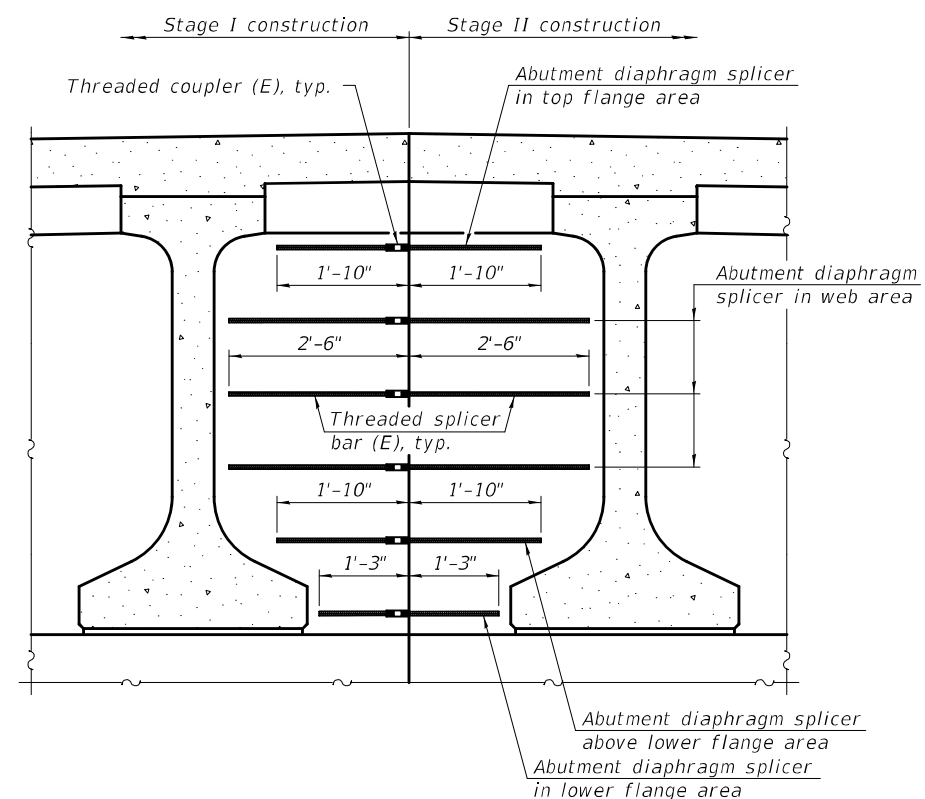
"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



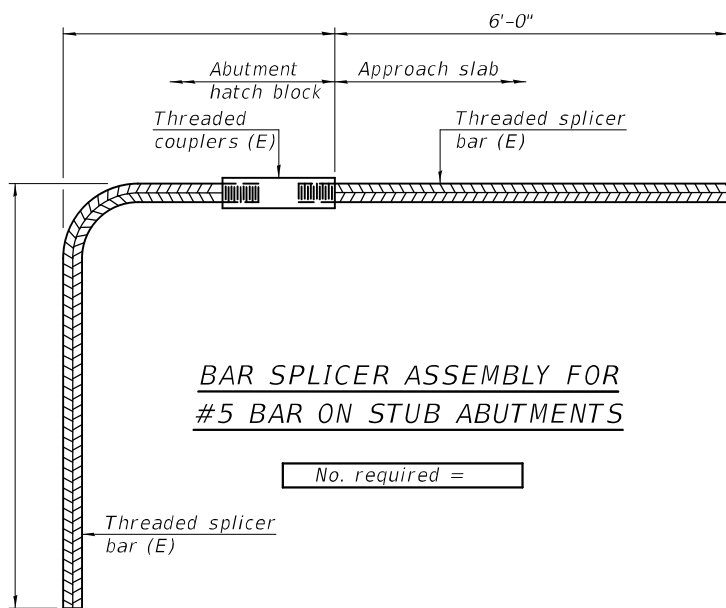
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

Location	Bar size	No. assemblies required	Minimum lap length
Slab	#5	269	3'-6"
Abutment Diaphragm, Back Face	#6	14	4'-6"
Abutment Diaphragm, in top flange area, front face	#6	2	See Diaphragm Bar Splicer Detail
Abutment Diaphragm, in web area, front face	#6	6	See Diaphragm Bar Splicer Detail
Abutment Diaphragm, above lower flange area, front face	#6	2	See Diaphragm Bar Splicer Detail
Abutment Diaphragm, in lower flange area, front face	#6	2	See Diaphragm Bar Splicer Detail
Approach Slab Top	#5	92	3'-7"
Approach Slab Bottom	#8	120	5'-1"
Approach Slab Footing	#5	80	3'-2"
Abutment Cap	#6	36	4'-4"



DIAPHRAGM BAR SPLICER DETAIL
 (Showing splicers at front face of abutment diaphragm)



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

MODEL: 0180065-74364-024
 FILE NAME: p:\v\lanroom\dot\Illinois\gov\PIW\DOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0180065\CADD Plans\0180065-74364

DESIGNED -	CRYSTAL D. STONE
CHECKED -	ADAM L. STAGGEMEYER
DRAWN -	MICHAEL B. MOSSMAN
CHECKED -	C.D.S. / A.L.S.

EXAMINED	<i>Joanne F. Joffe</i> ENGINEER OF BRIDGE DESIGN
PASSED	<i>Carl Kroyer</i> ENGINEER OF BRIDGES AND STRUCTURES

DATE -	OCTOBER 5, 2020
REVISED -	
REVISED -	

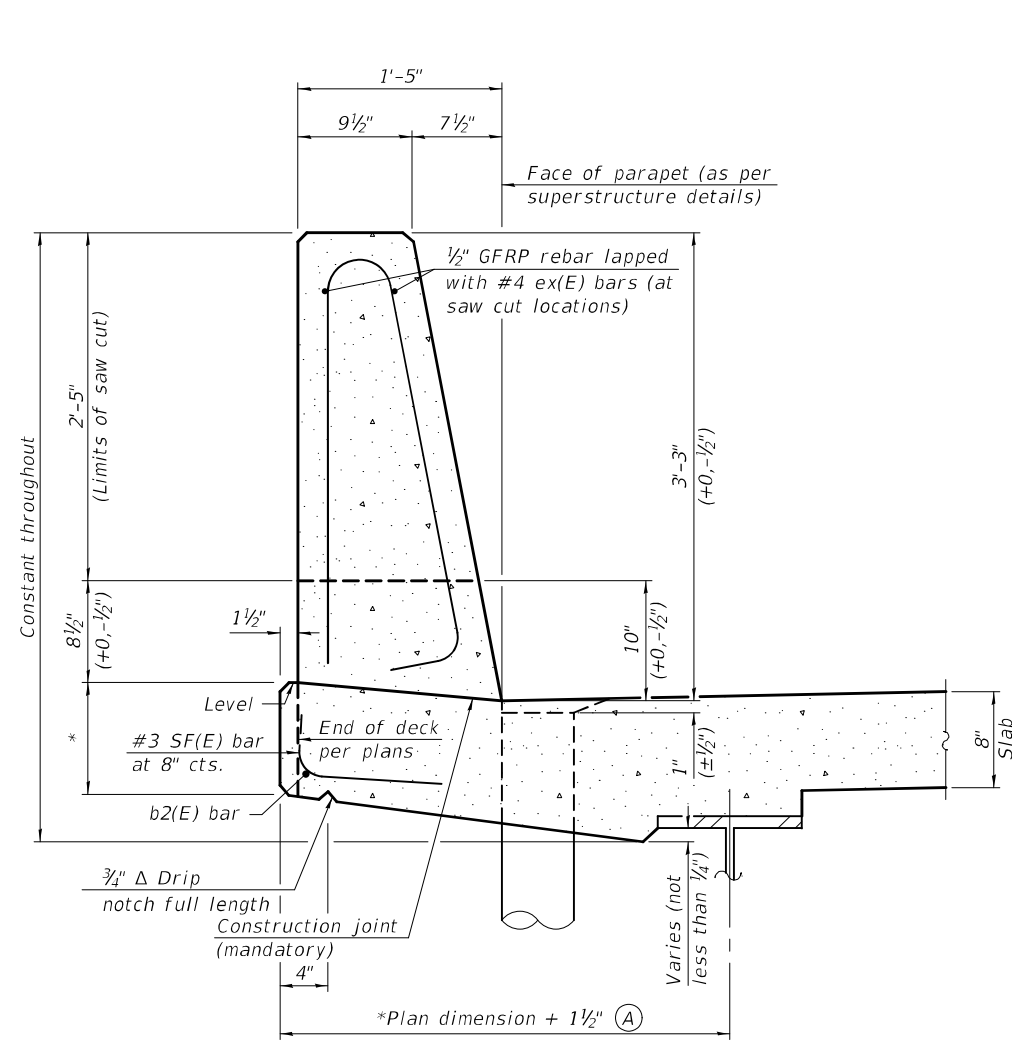
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 018 - 0065**

SHEET 24 OF 28 SHEETS

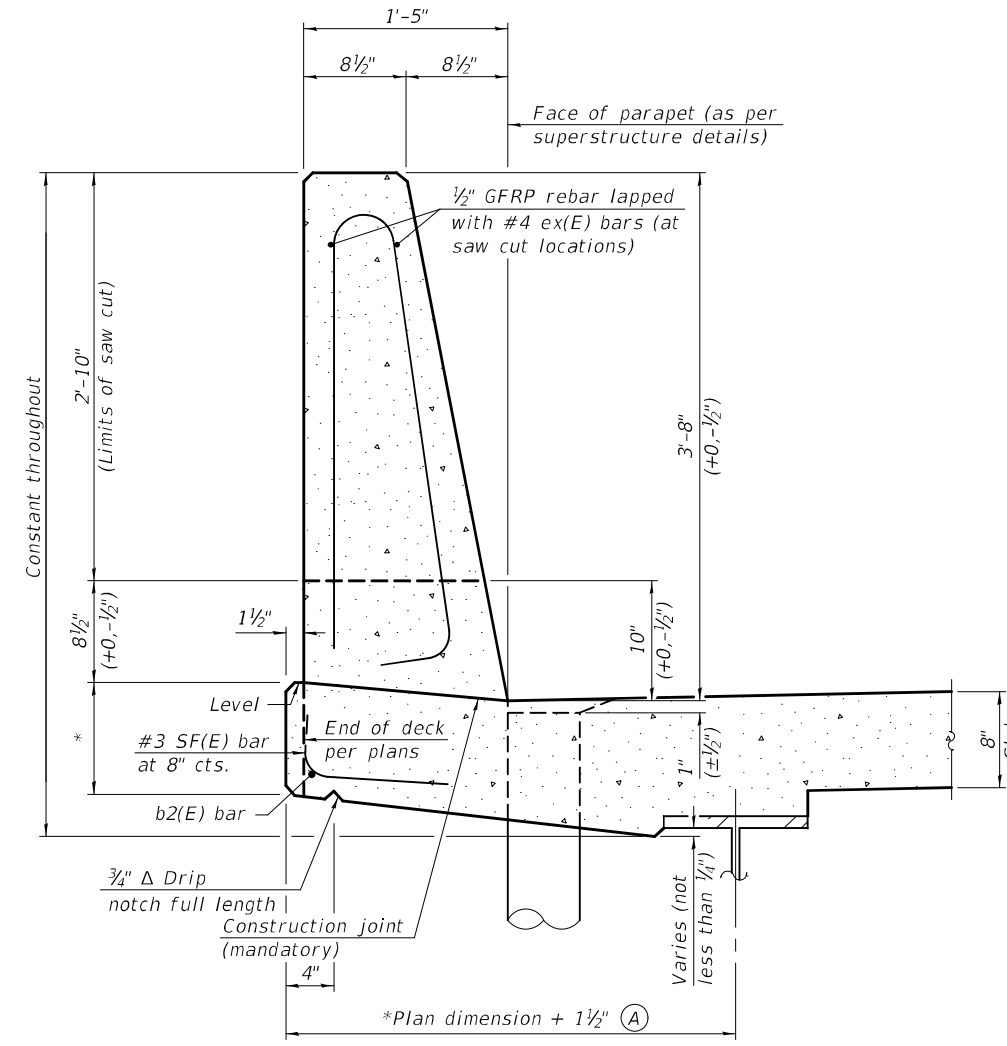
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	CUMBERLAND	66	46
CONTRACT NO. 74364				
ILLINOIS FED. AID PROJECT				

10/5/2020 10:06:05 AM



**39" CONSTANT-SLOPE
PARAPET SECTION**

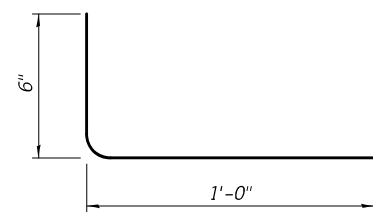
(Showing dimensions, d(E), and 1/2" Ø GFRP rebar)



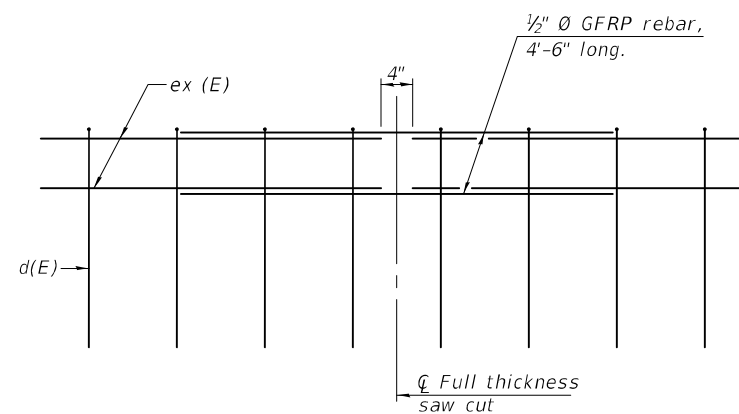
**44" CONSTANT-SLOPE
PARAPET SECTION**

(Showing dimensions, d(E), and 1/2" Ø GFRP rebar)

*See Superstructure Details.



#3 SF(E) BAR



GFRP REBAR STIFFENING DETAIL

(Place as shown in parapet section at each parapet joint location.)

Notes:
All dimensions shall remain the same as shown on superstructure details, except dimension A which is to be revised as shown. Additional concrete needed to revise dimension A = 0.00348 cu. yds./ft. for 39" and 44" parapets.
Place full depth aluminum sheets as shown on superstructure details.
Replace all cork joint filler locations with a full thickness saw cut.
Steel superstructure shown. Other superstructure types similar.

MODEL: 0180065-74364-025
FILE NAME: p:\w\lanroom\dot.illinois.gov\PWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0180065\CADD Plans\0180065-74364

DESIGNED -	CRYSTAL D. STONE
CHECKED -	ADAM L. STAGGEMEYER
DRAWN -	MICHAEL B. MOSSMAN
CHECKED -	C.D.S. / A.L.S.

EXAMINED	<i>Joanne F. Joffe</i> ENGINEER OF BRIDGE DESIGN
PASSED	<i>Carl Rupp</i> ENGINEER OF BRIDGES AND STRUCTURES

DATE -	OCTOBER 5, 2020
REVISED -	
REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONCRETE PARAPET SLIPFORMING OPTION
STRUCTURE NO. 018 - 0065**

SHEET 25 OF 28 SHEETS

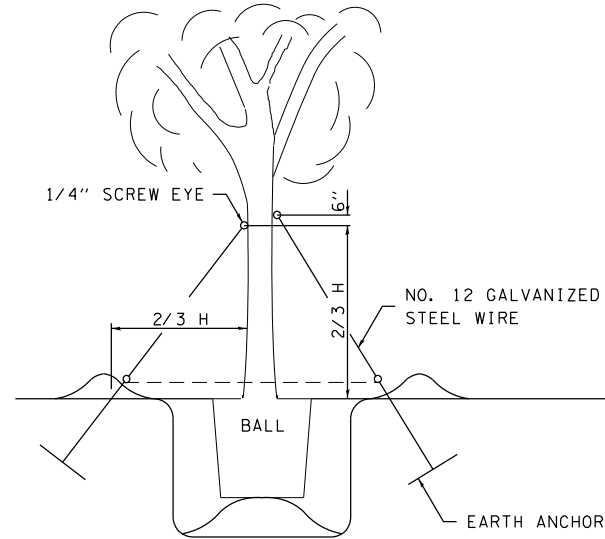
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 74364				
ILLINOIS		FED. AID PROJECT		

10/5/2020 10:06:05 AM

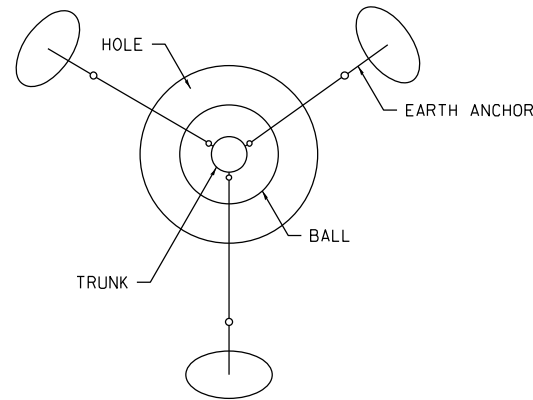
THIS SHEET INTENTIONALLY LEFT BLANK FOR INSERTION OF BRIDGE PLAN SHEET.

THIS SHEET INTENTIONALLY LEFT BLANK FOR INSERTION OF BRIDGE PLAN SHEET.

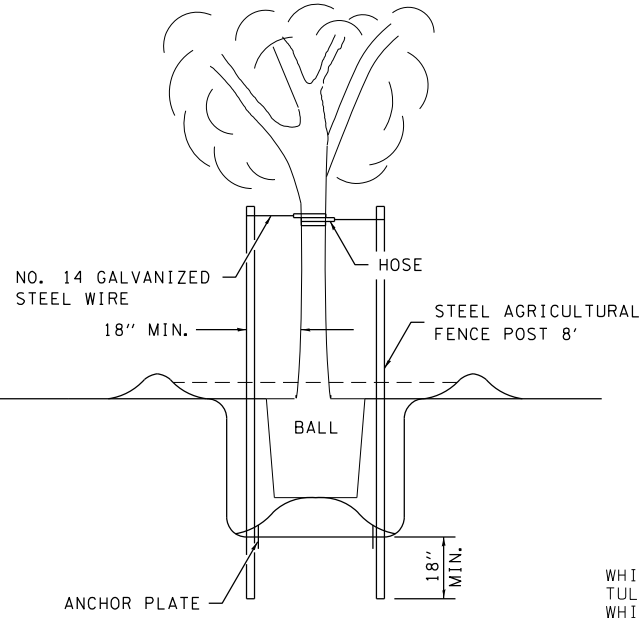
SEE SECTION 253 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION FOR INFORMATION NOT SHOWN.



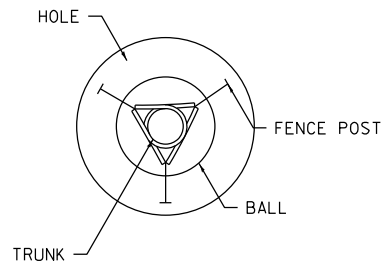
SECTION



PLAN
TREES OVER
4 1/2" IN CALIPER

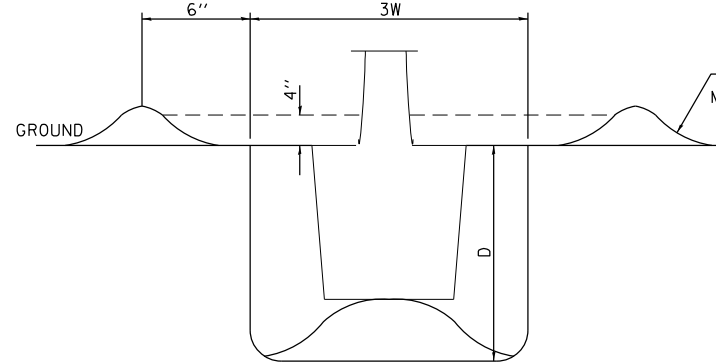


SECTION



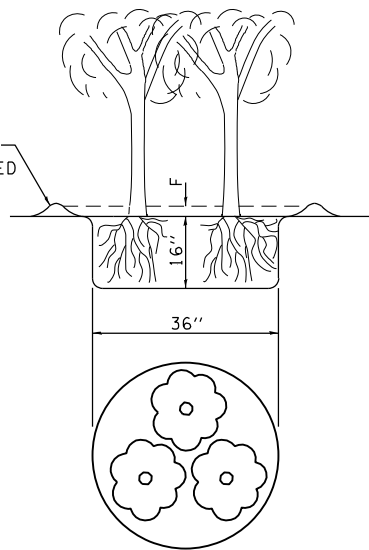
PLAN
TREES OVER 8' TALL AND
4 1/2" IN CALIPER
AND ALL "A" & "D" CODED TREES.
• OVER 4' TALL

BRACING DETAIL



SINGLE PLANT

PLANTING DETAIL
MULCH AND WATER RING



GROUPED PLANTS

INFORMATION ONLY

COMMON NAME	LATIN NAME
WHITE PINE	Pinus strobus
TULIP POPLAR	Liriodendron tulipifera
WHITE OAK	Quercus alba
PIN OAK	Quercus palustris
RED OAK	Quercus rubra
SUGAR MAPLE	Acer saccharum
RED MAPLE	Acer Rubrum
SWEET GUM	Liquidambar styraciflua
DOGWOOD	cornus florida
ASH	Fraxinus americana (Sps.)
CRAB APPLE	Malus sps.
RIVER BIRCH	Betula nigra
WITCH HAZEL	Hamamelis virginiana
RED BUD	Cercis canadensis
BRADFORD PEAR	Pyrus calleryana bradford
SHAGBARK HICKORY	Carya ovata
PINK FLOWERING DOGWOOD	Cornus florida rubra
WHITE CRAB APPLE	Malus snowdrift
NORWAY SPRUCE	Picea abies
TALL HEDGE (SHRUB)	Rhamnus fragula "columnaris"

SPACE LIMITATIONS IN THE ABBREVIATED PAY ITEM DESCRIPTION PRECLUDED SHOWING THE SIZES, YEARS OF GROWTH, AND OTHER CHARACTERISTICS OF TREES, SHRUBS, EVERGREENS AND VINES. THEREFORE, THESE CHARACTERISTICS HAVE BEEN CODED AS SHOWN FOR EACH CATEGORY OF PLANTS.

AN EXAMPLE OF THE APPLICATION OF PREFIX AND CODE IS:

CODE NUMBER ITEM (long description - short description)
A1002008 ACER SACCHARINUM 08 - ACER SACCINUM 08

A - IN THE CODE NUMBER INDICATES THE PREFIX
08 - IN THE ITEM DESCRIPTION IS FOR THE SIZE OF TREE
(IN THIS CASE 2 - 2 1/2 INCH DIAMETER)

SHADE TREES (PREFIX "A")		
CODE	SIZE INCH DIAMETER	
01	1 1/4 - 1 1/2	
02	1 1/4 - 1 1/2	BB
03	1 1/2 - 1 3/4	
04	1 1/2 - 1 3/4	BB
05	1 3/4 - 2	
06	1 3/4 - 2	BB
07	2 - 2 1/2	
08	2 - 2 1/2	BB
09	2 1/2 - 3	
10	2 1/2 - 3	BB
11	3 - 3 1/2	
12	3 - 3 1/2	BB
13	3 1/2 - 4	
14	3 1/2 - 4	BB
15	4 - 4 1/2	
16	4 - 4 1/2	BB
17	4 1/2 - 5	
18	4 1/2 - 5	BB
19	5 - 5 1/2	
20	5 - 5 1/2	BB
21	5 1/2 - 6	
22	5 1/2 - 6	BB
23	6 - 7	
24	6 - 7	BB

NOTES: SIZES ARE BARE ROOT EXCEPT WHEN FOLLOWED BY "BB" WHICH INDICATE BALL AND BURLAP.

EVERGREENS (PREFIX "D")		
CODE	SIZE HEIGHT IN FEET	
01	1 1/2 - 2	BB
02	2 - 2 1/2	BB
03	2 1/2 - 3	BB
04	3 - 3 1/2	BB
05	3 1/2 - 4	BB
06	4 - 5	BB
07	5 - 6	BB
08	6 - 7	BB
09	7 - 8	BB
10	8 - 9	BB

BB = BALL AND BURLAP OR IN POTS

VINES/GROUNDCOVERS
(PREFIX "E")

CODE	SIZE	
01	1 YR. # 1	
02	1 YR. # 1	BB
03	2 YR. # 1	
04	2 YR. # 1	BB
05	3 YR. # 1	
06	3 YR. # 1	BB
07	4 YR. # 1	
08	4 YR. # 1	BB
09	5 YR. # 1	
10	5 YR. # 1	BB

BB = BALL AND BURLAP OR IN POTS

INTERMEDIATE TREES
(PREFIX "B")

CODE	SIZE HEIGHT IN FEET	
01	1 1/2 - 2	BB
02	1 1/2 - 2	BB
03	2 - 3	BB
04	2 - 3	BB
05	3 - 4	BB
06	3 - 4	BB
07	4 - 5	BB
08	4 - 5	BB
09	5 - 6	BB
10	5 - 6	BB
11	6 - 7	BB
12	6 - 7	BB
13	7 - 8	BB
14	7 - 8	BB
15	8 - 9	BB
16	8 - 9	BB
17	9 - 10	BB
18	9 - 10	BB
19	10 - 12	BB
20	10 - 12	BB
21	12 - 14	BB
22	12 - 14	BB
23	14 - 16	BB
24	14 - 16	BB

NOTES: SIZES ARE BARE ROOT EXCEPT WHEN FOLLOWED BY "BB" WHICH INDICATE BALL AND BURLAP.

SEEDLING TREES
(PREFIX "F")

CODE	SIZE YEARS OF GROWTH & TIMES TRANSPLANTED "T"	
01	1 YR.	
02	2 YR.	
03	3 YR. T	
04	2 YR. T	
05	2 - 3'	BR
06	3 - 4'	BR
07	4 - 6'	BR
08	6 - 8'	BR
09	12 - 18"	
10	18 - 24"	

BR = "WHIPS" OR "LINERS"

SEEDLING SHRUBS
(PREFIX "G")

CODE	SIZE CROWN DIAMETER IN INCHES, YEARS OF GROWTH & TIMES TRANSPLANTED "T"
01	1/8 - 3/16
02	3/16 - 1/4
03	1/4 - 3/8
04	1 YR. T
05	1/2 - 3/4
06	2 YR. T

SHRUBS
(PREFIX "C")

CODE	SIZE HEIGHT IN FEET	
01	1 1/2 - 2	
02	1 1/2 - 2	BB
03	2 - 3	
04	2 - 3	BB
05	3 - 4	
06	3 - 4	BB
07	4 - 5	
08	4 - 5	BB
09	5 - 6	
10	5 - 6	BB
11	6 - 7	
12	6 - 7	BB

NOTES: SIZES ARE BARE ROOT EXCEPT WHEN FOLLOWED BY "BB" WHICH INDICATE BALL AND BURLAP.

SEEDLING EVERGREENS
(PREFIX "H")

CODE	SIZE YEARS OF GROWTH & TIMES TRANSPLANTED "T"
01	1 YR.
02	2 YR.
03	2 YR. T
04	3 YR.
05	3 YR. T

NOT TO SCALE

FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISED - MMO 12-99
pw:\sldot-pw\entley.com\PWIDOT\Documents\DOT Offices\District 7\Projects\74364\CAD\Drawings\74364-sht-details.dgn		REVISIONS	REVISED - MKS 04-08
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PLOT DATE = 8/19/2021	DATE -	REVISIONS	REVISED -

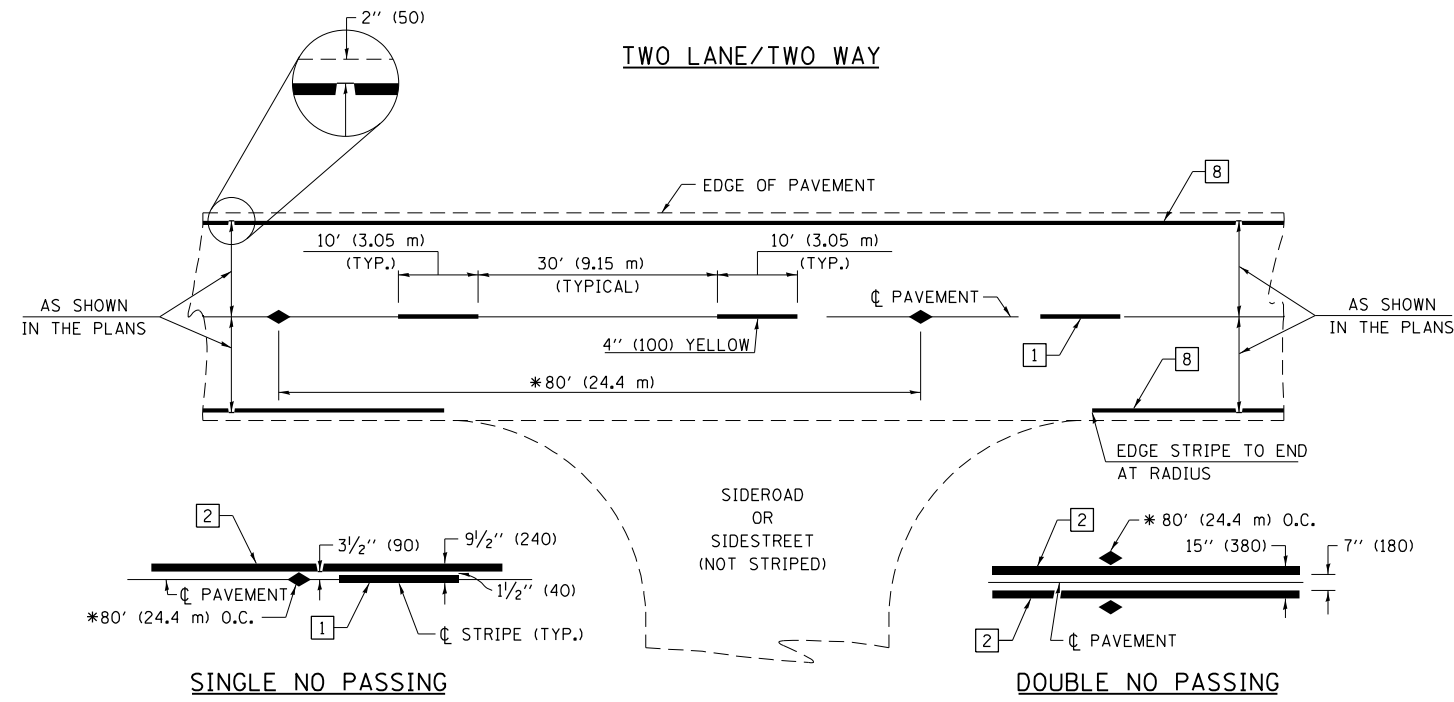
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANTING DETAILS

SCALE: SHEET NO. OF SHEETS STA. TO STA.

DISTRICT 7 DETAIL NO. 2530000

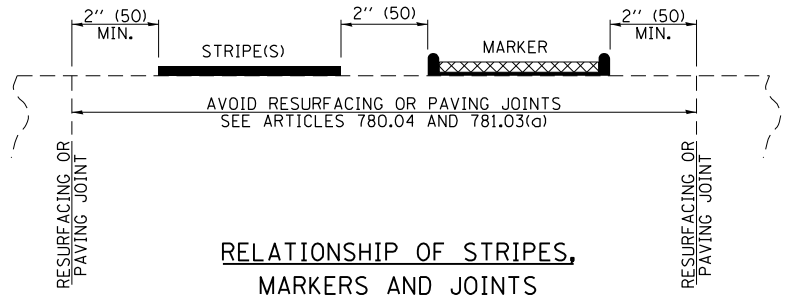
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	Cumberland	68	51
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 74364	



* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE

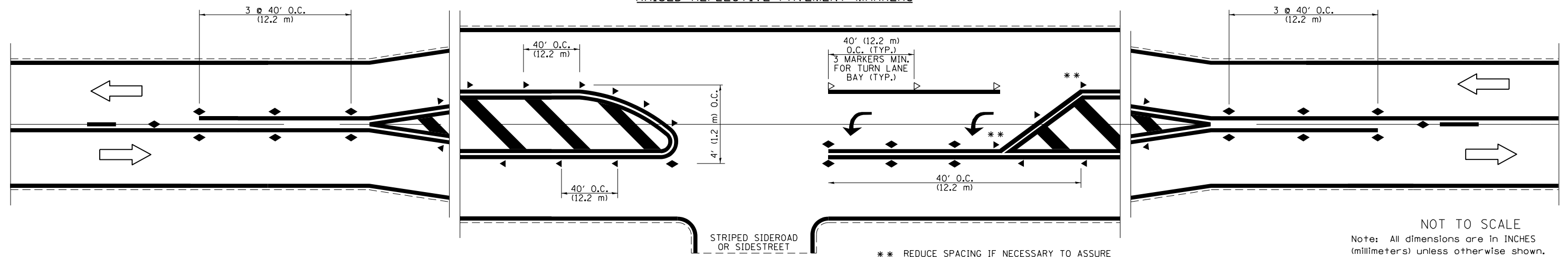


RELATIONSHIP OF STRIPES, MARKERS AND JOINTS

TYPICAL PAVEMENT MARKERS LEGEND

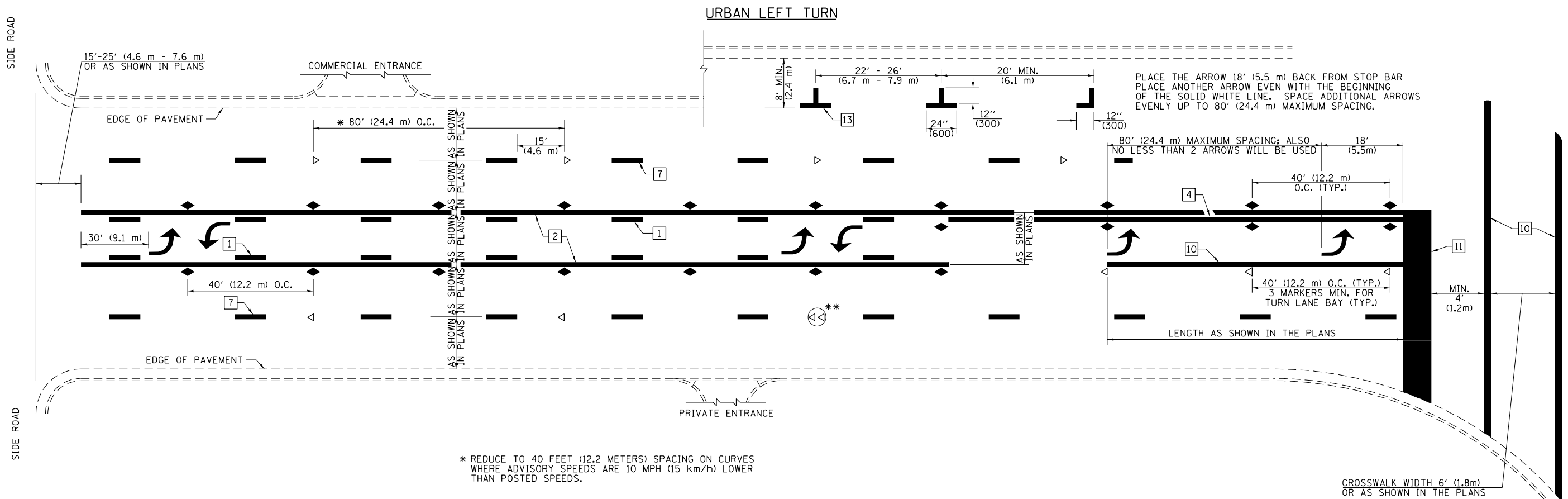
- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

RAISED REFLECTIVE PAVEMENT MARKERS



** REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

NOT TO SCALE
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.



PLACE THE ARROW 18' (5.5 m) BACK FROM STOP BAR
 PLACE ANOTHER ARROW EVEN WITH THE BEGINNING
 OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS
 EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING.

* REDUCE TO 40 FEET (12.2 METERS) SPACING ON CURVES
 WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER
 THAN POSTED SPEEDS.

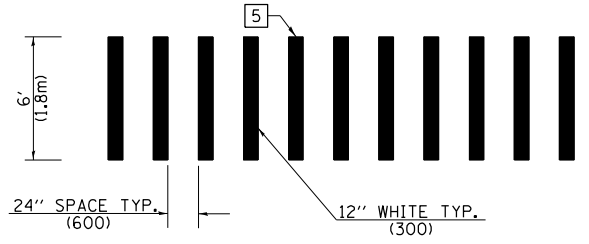
** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED
 AND SPACED AS SHOWN IN HIGHWAY STANDARD
 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED
 HIGHWAYS.

PAVEMENT MARKING LEGEND

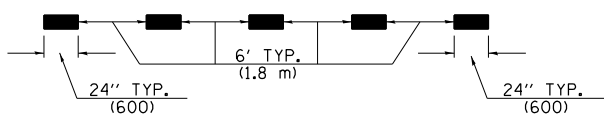
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE

GENERAL NOTES

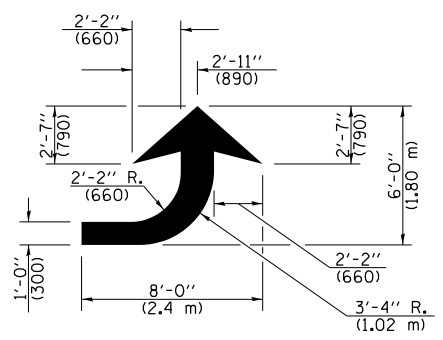
1. TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
2. THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
3. THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER.
4. USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)
5. LANE LINE EXTENSIONS SHALL BE THE SAME COLOR AND WIDTH AS THE LANE LINE BEING EXTENDED.



**CROSSWALK DETAIL
 (DECATUR CITY LIMITS ONLY)**

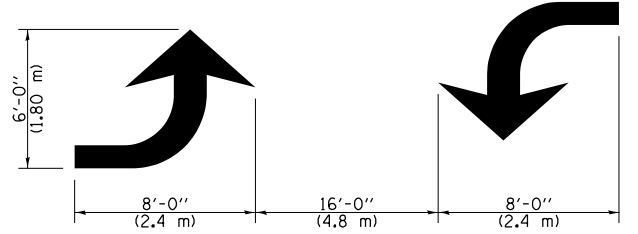


LANE LINE EXTENSIONS



LEFT ARROW

REVERSE FOR RIGHT ARROW
 AREA = 15.6 SQ. FT. (1.47 m²)
 (WHITE)



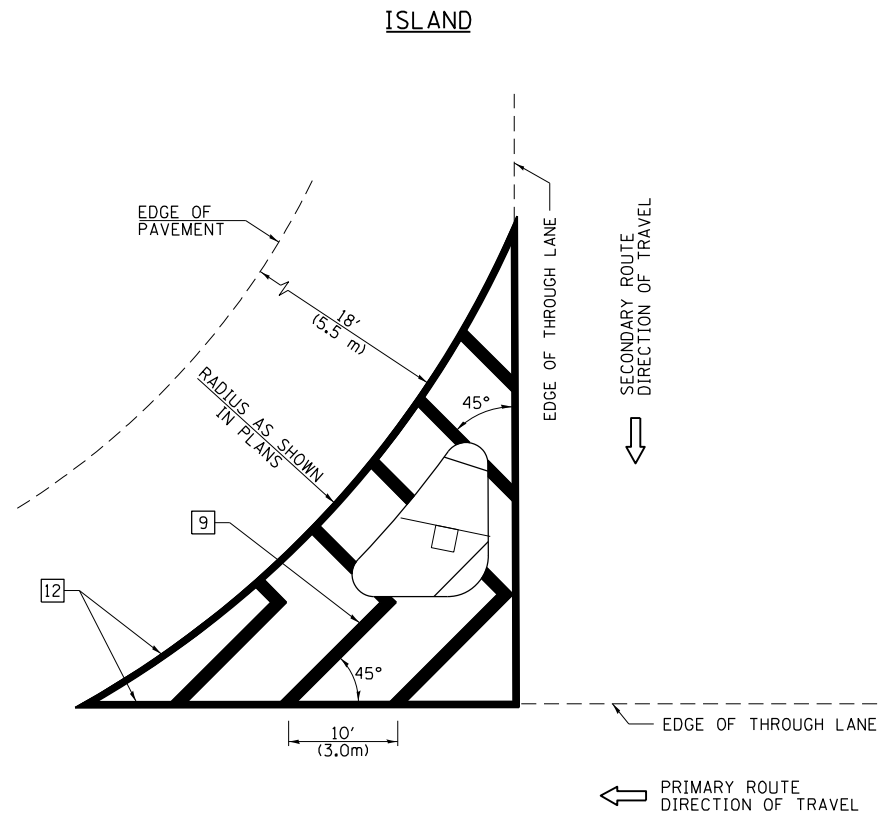
**TYPICAL DOUBLE
 TURN ARROWS (WHITE)**

NOT TO SCALE

Note: All dimensions are in INCHES
 (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 78000001

FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\idot-pw\bentley.com\PWIDOT\Documents\IDOT Offices\District 7\Projects\74364\CADD\Drawings\74364-sht-details.dgn	DRAWN	REVISED -	REVISED -			773	(108BR-2)B-1	Cumberland	68	53
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 74364				
PLOT DATE = 8/19/2021	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT				

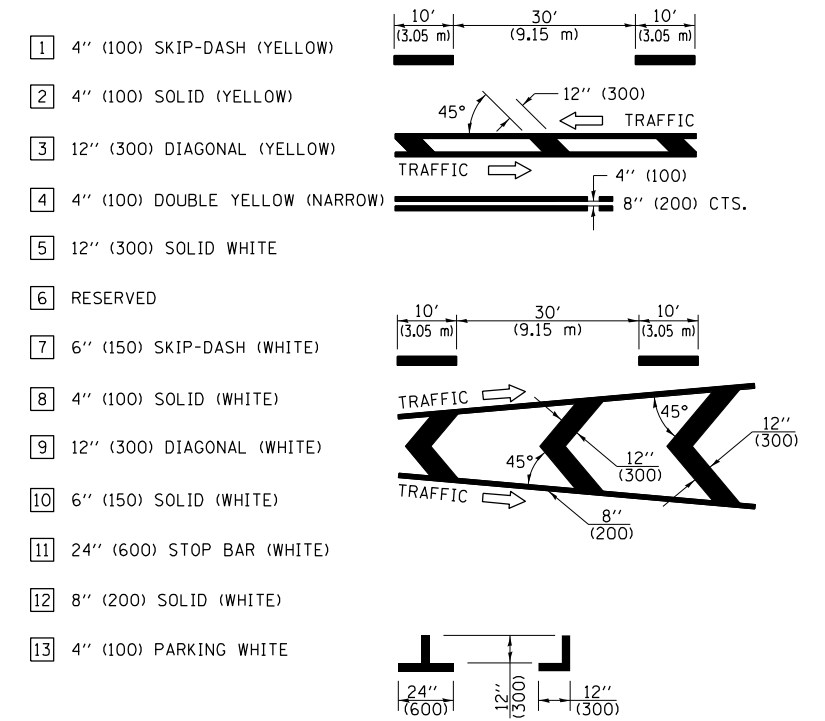


GENERAL NOTES

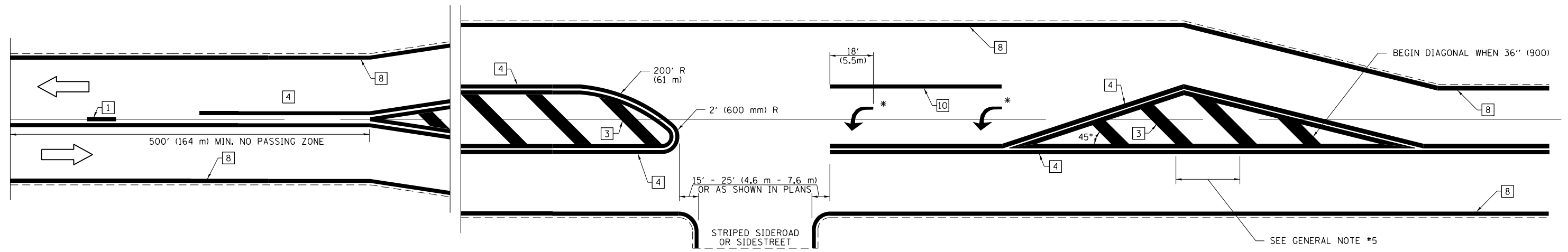
1. RAISED AND CORRUGATED MEDIANS SHALL BE OUTLINED WITH [2] IF PRESENT.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
5. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING:

< 30 MPH (< 50 km/h)	15' (4.5 m)
30-45 MPH (50-75 km/h)	20' (6.0 m)
> 45 MPH (> 75 km/h)	30' (9.0 m)

PAVEMENT MARKING LEGEND



RURAL LEFT TURN STRIPING



* PLACE AN ARROW 18' (5.5 m) BACK FROM STOP BAR. PLACE ANOTHER ARROW EVEN WITH THE BEGINNING OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING. USE MINIMUM OF 2 ARROWS.

NOT TO SCALE
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
p:\dot-pw\bentley.com\PWIDOT\Documents\IDOT Offices\District 7\Projects\74364\CADD\Drawings\Drawings\74364-sht-details.dgn		CHECKED -	REVISED -
		DATE -	REVISED -

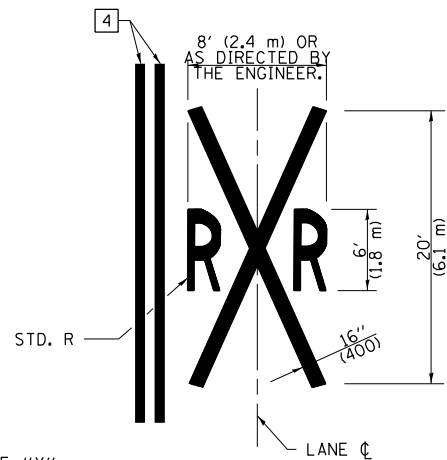
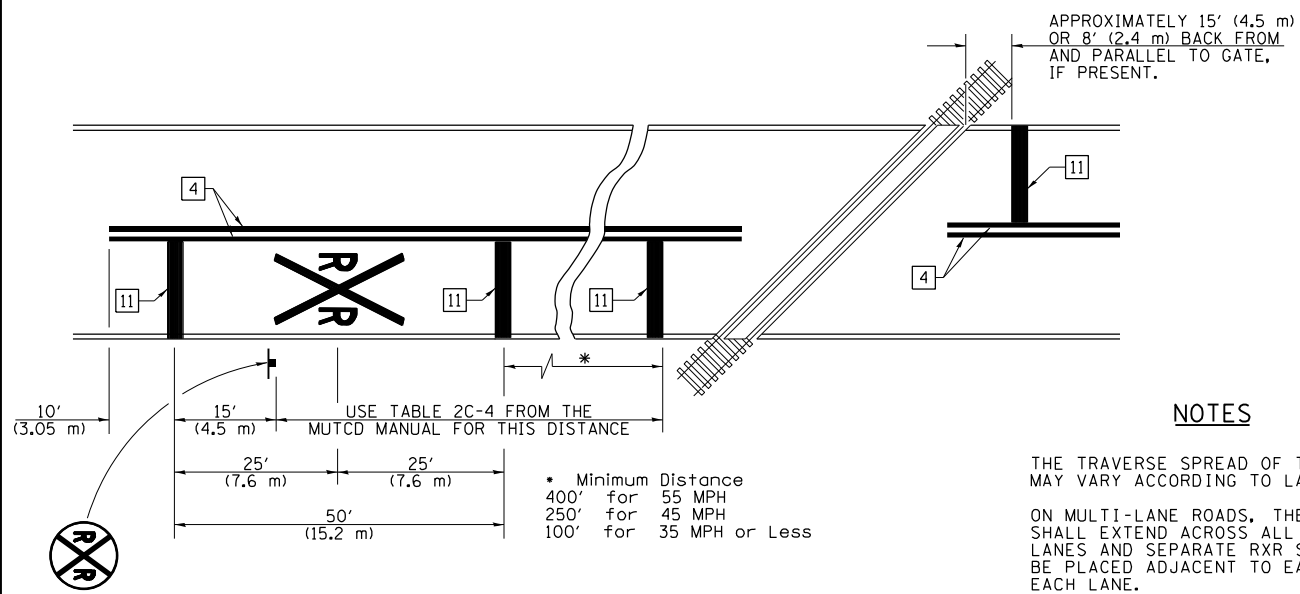
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	Cumberland	68	54
				CONTRACT NO. 74364
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING



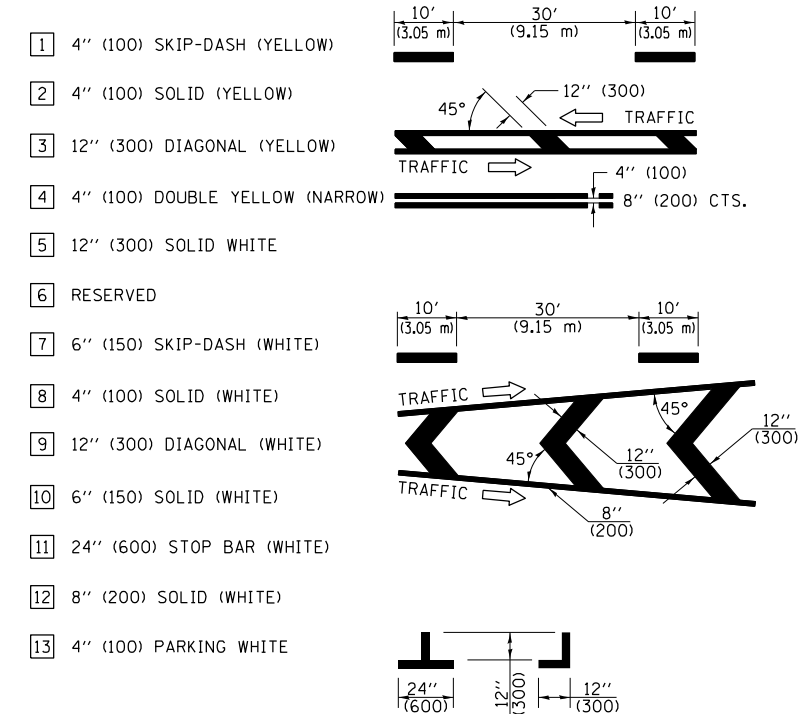
NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

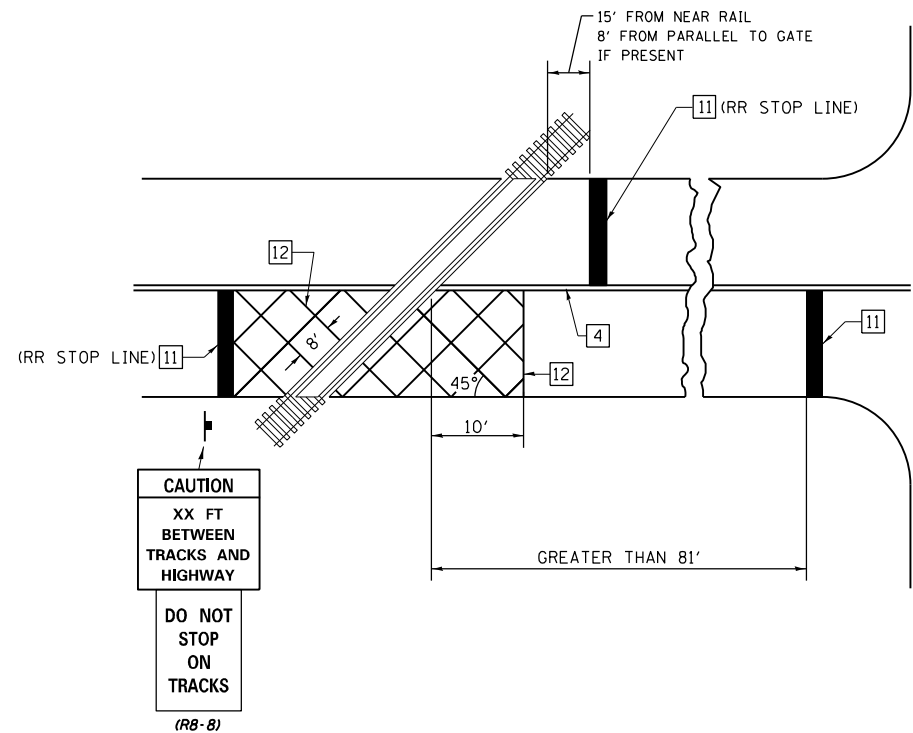
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

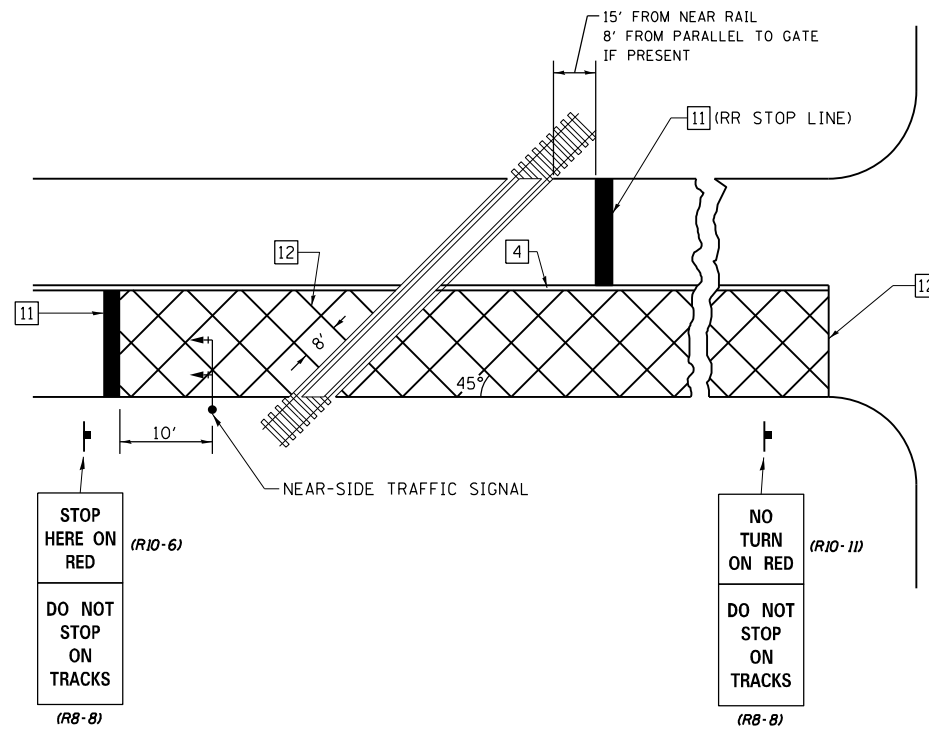
PAVEMENT MARKING LEGEND



RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

GENERAL NOTES

- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.

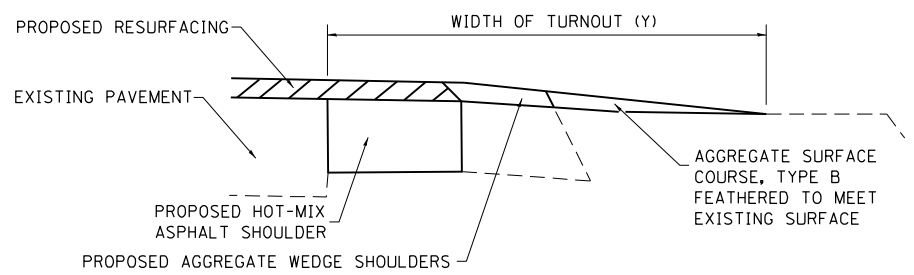
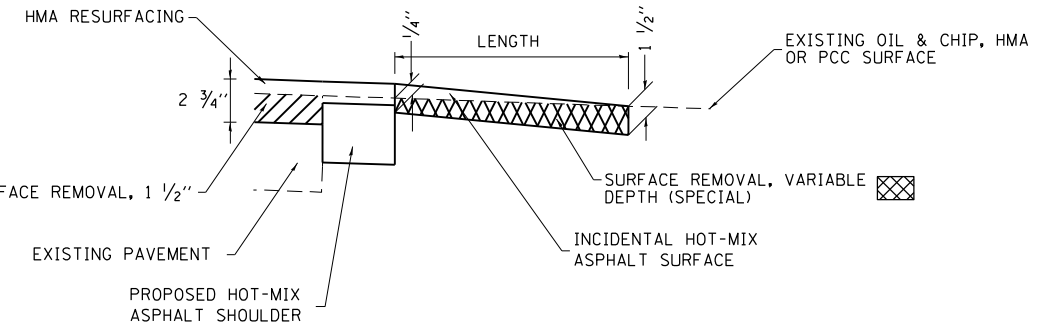
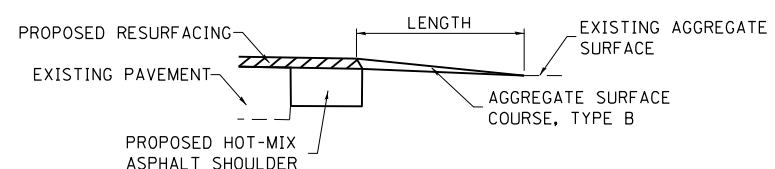
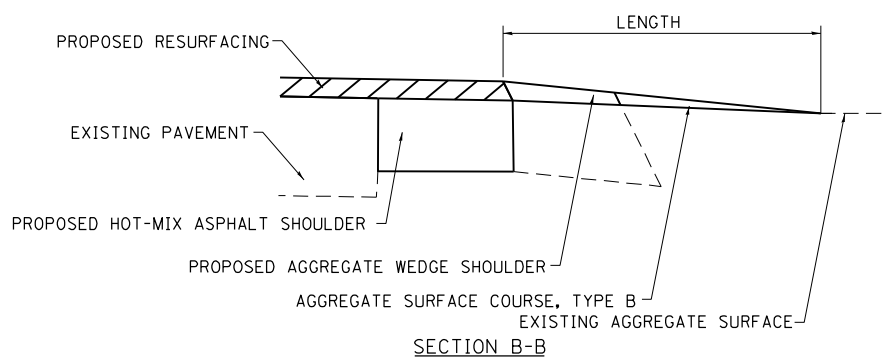
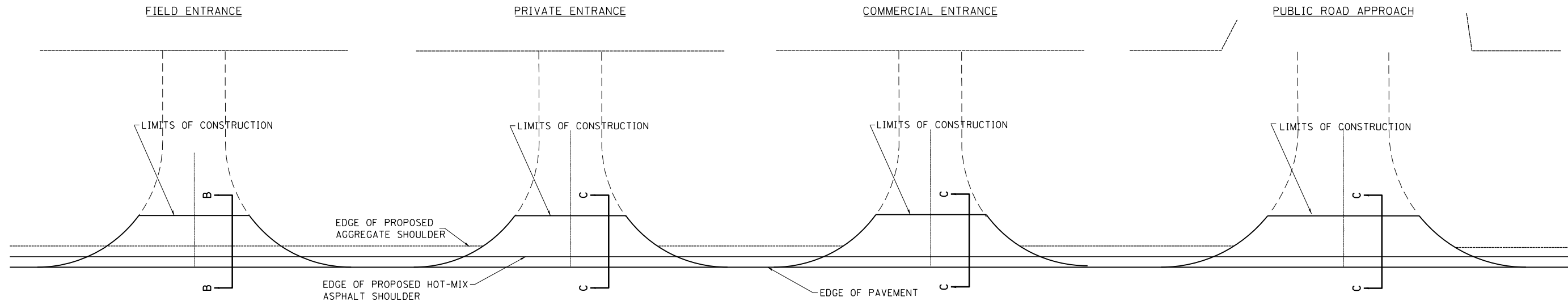
NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\idot-pw\bentley.com\PIDOT\Documents\IDOT Offices\District 7\Projects\74364\CADD\Drawings\Sheets\774364-sht-details.dgn		CHECKED -	REVISED -			773	(108BR-2)B-1	Cumberland	68	55
PLOT SCALE = 100.0000' / in.		DATE -	REVISED -			CONTRACT NO. 74364				
PLOT DATE = 8/19/2021						ILLINOIS FED. AID PROJECT				

SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.



TYPICAL SECTION AT MAILBOX TURNOUT
NOTE: SEE STANDARD 406201 FOR MAILBOX TURNOUT DETAILS

NOTES
 LENGTH = 10' UNLESS OTHERWISE NOTED ON PLANS
 THE THICKNESS OF THE HOT-MIX ASPHALT SHOULDERS THROUGH AGGREGATE COMMERCIAL ENTRANCES AND PUBLIC ROADS SHALL BE 10". THE COST OF THE EXTRA THICKNESS SHALL BE INCLUDED WITH THE HOT-MIX ASPHALT SHOULDERS PAY ITEM.
 THE COST OF THE BITUMINOUS MATERIALS (TACK COAT) FOR ENTRANCES AND PUBLIC ROAD APPROACHES SHALL BE INCLUDED IN THE PAY ITEM INCIDENTAL HOT-MIX ASPHALT SURFACING.

SIDE	STATION	TYPE	SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)		INCIDENTAL HOT-MIX ASPHALT SURFACING	AGGREGATE SURFACE COURSE, TYPE B
			SO	YD		
LT	377+30.0	PE	67.0	2.0	-	-

SIDE	STATION	TYPE	SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)		INCIDENTAL HOT-MIX ASPHALT SURFACING	AGGREGATE SURFACE COURSE, TYPE B
			SO	YD		

SIDE	STATION	TYPE	SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)		INCIDENTAL HOT-MIX ASPHALT SURFACING	AGGREGATE SURFACE COURSE, TYPE B
			SO	YD		

SIDE	STATION	TYPE	SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)		INCIDENTAL HOT-MIX ASPHALT SURFACING	AGGREGATE SURFACE COURSE, TYPE B
			SO	YD		

FE=FIELD ENTRANCE PRA - PUBLIC ROAD APPROACH
 PE=PRIVATE ENTRANCE MBT - MAILBOX TURNOUT
 CE=COMMERCIAL ENTRANCE

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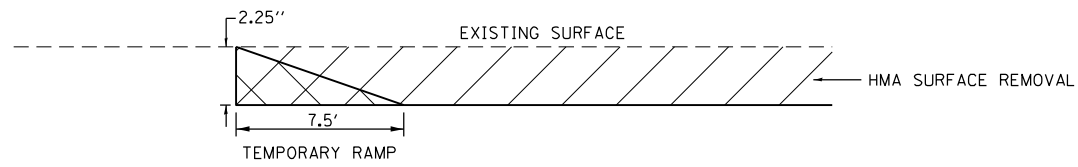
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PLOT DATE = 8/19/2021	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

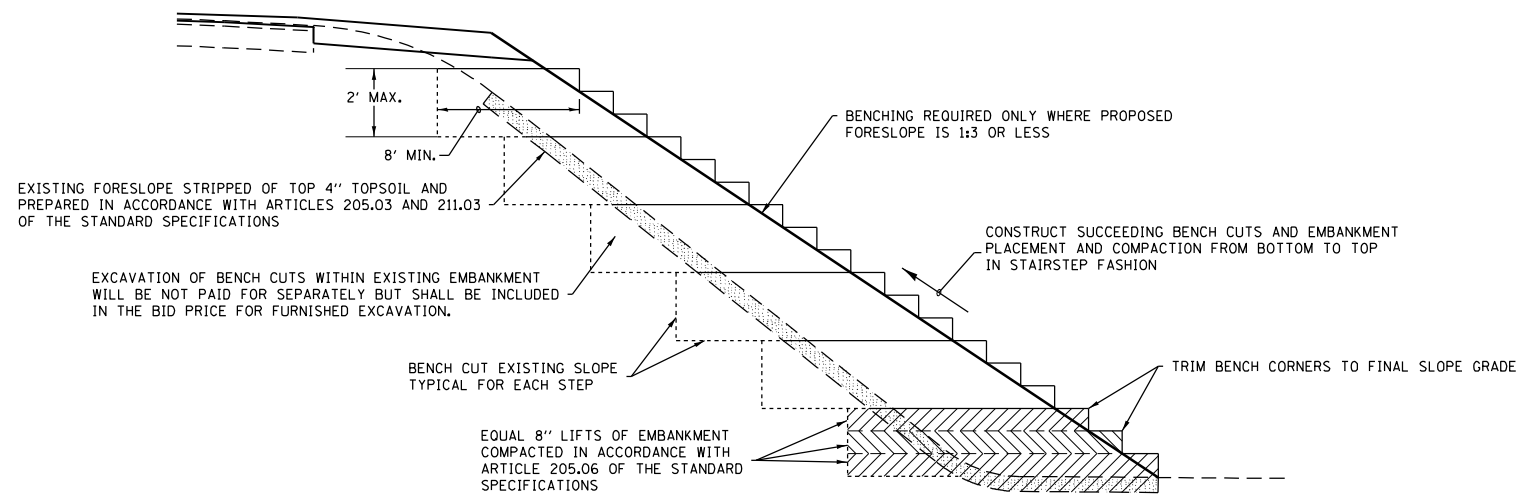
**ENTRANCE SCHEDULE AND MAILBOX TURNOUT DETAILS
 SHOULDERS (PROPOSED)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 773	SECTION (108BR-2)B-1	COUNTY Cumberland	TOTAL SHEETS 68	SHEET NO. 56
CONTRACT NO. 74364			ILLINOIS FED. AID PROJECT	



TEMPORARY RAMP DETAIL



TYPICAL BENCHING FOR EMBANKMENTS DETAIL

(NOT TO SCALE)

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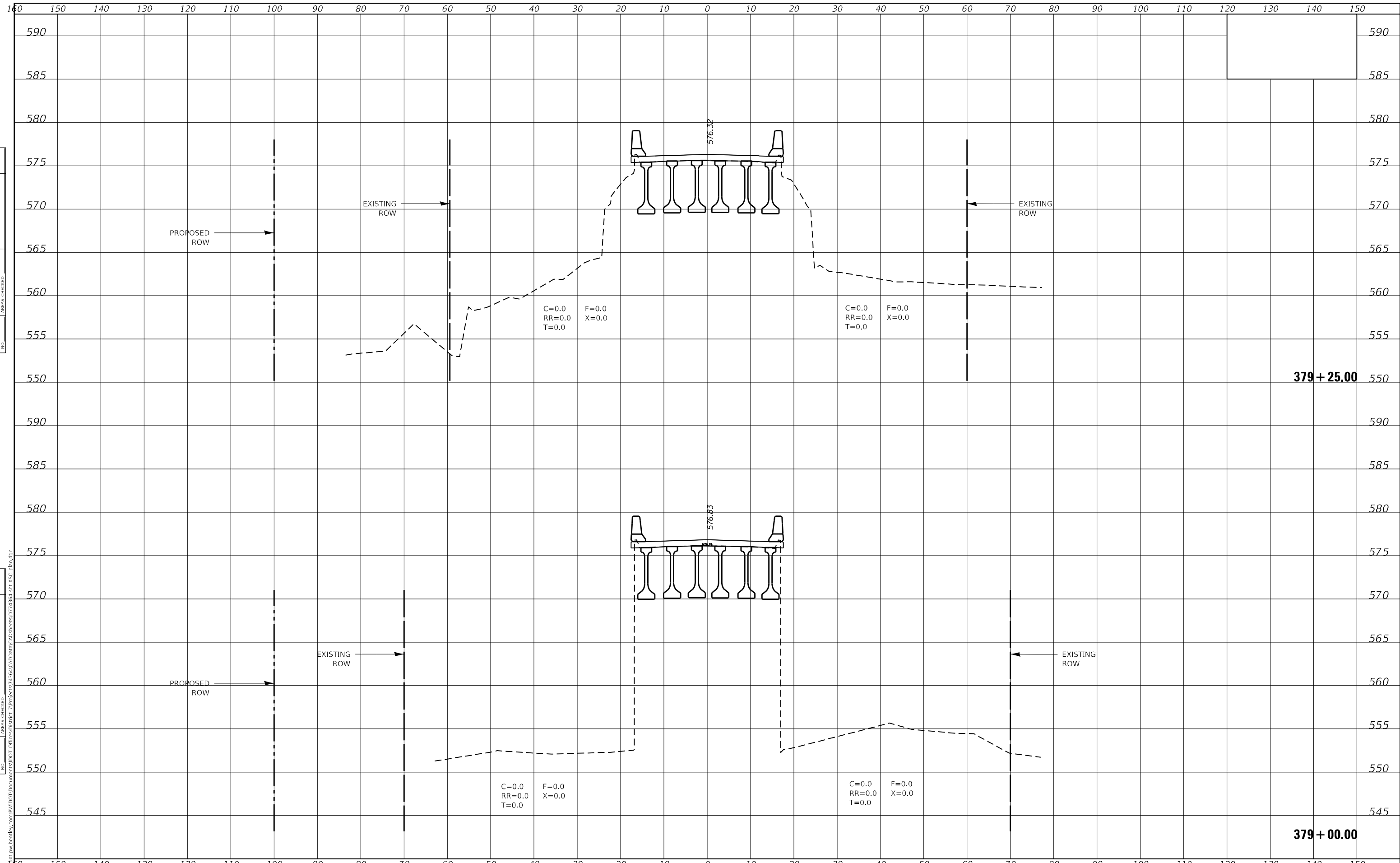
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PLOT DATE = 8/19/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISC. DETAILS

SCALE: NO SCALE SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	Cumberland	68	57
CONTRACT NO. 74364				
ILLINOIS FED. AID PROJECT				



FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

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	DRAWN - ALB	REVISED -
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PLOT DATE = 8/19/2021	DATE - 8/19/2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

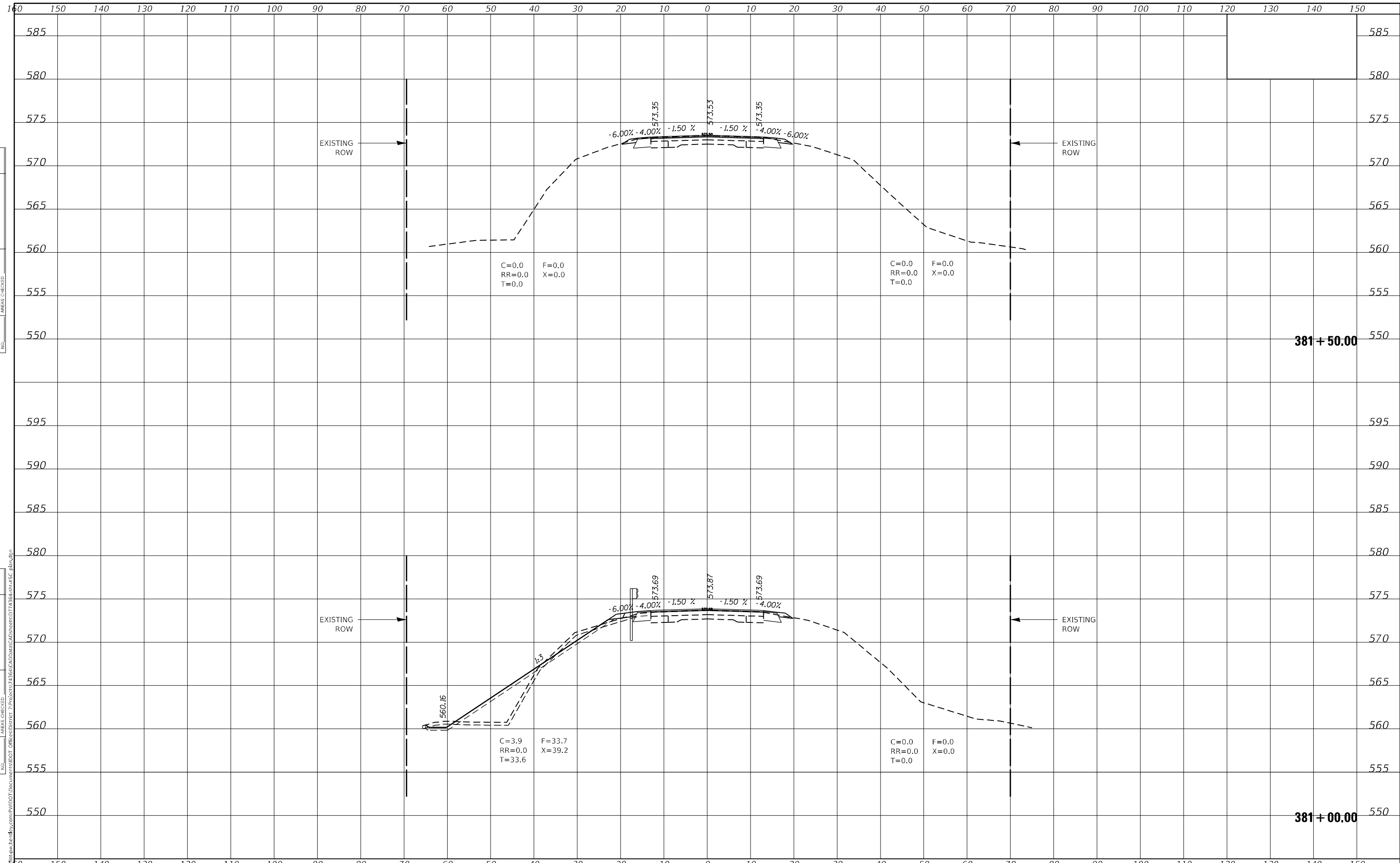
CROSS SECTIONS

SCALE: 20.0000 ' / in. SHEET OF SHEETS STA. 379+00.00 TO STA. 379+25.00

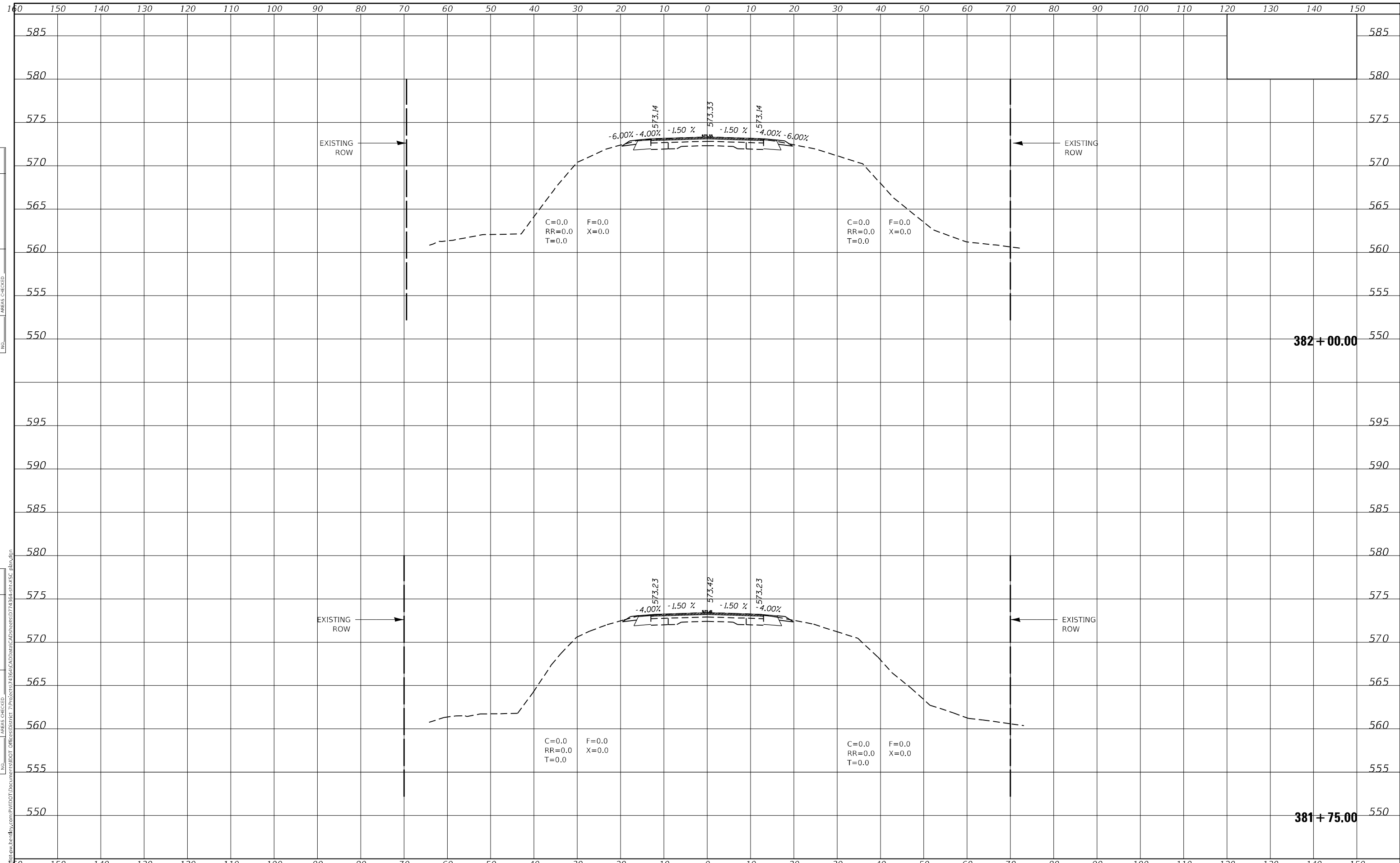
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	Cumberland	68	63
				CONTRACT NO. 74364
				ILLINOIS FED. AID PROJECT

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	



MODEL: Default	USER NAME = stefnemk	DESIGNED - ALB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 8/19/2021	CHECKED -	REVISED -		SCALE: 20,0000 ' / in. SHEET OF SHEETS STA. 381+00.00 TO STA. 381+50.00				CONTRACT NO. 74364			
		DATE - 8/19/2021	REVISED -		ILLINOIS FED. AID PROJECT							



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

USER NAME	= stefnemk
DESIGNED	- ALB
DRAWN	- ALB
PLLOT SCALE	= 20.0000 ' / in.
CHECKED	-
PLLOT DATE	= 8/19/2021
DATE	- 8/19/2021
REVISIED	-
REVISIED	-
REVISIED	-
REVISIED	-

DESIGNED	- ALB	REVISIED	-
DRAWN	- ALB	REVISIED	-
CHECKED	-	REVISIED	-
DATE	- 8/19/2021	REVISIED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS	
SCALE: 20.0000 ' / in.	SHEET OF SHEETS
STA. 381+75.00	TO STA. 382+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108BR-2)B-1	Cumberland	68	67
CONTRACT NO. 74364			ILLINOIS FED. AID PROJECT	

