

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2011-220-N	LAKE	41	1
ILLINOIS			CONTRACT NO. 60R59	

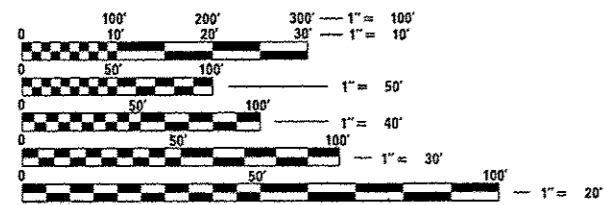
FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT IS LOCATED IN THE CDP OF GAGES LAKE AND THE CITY OF WAUKEGAN.

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 342: IL ROUTE 120
LOCATION 1: AT ALMOND RD.
LOCATION 2: AT RIVER RD.
SECTION 2011-220-N
CHANNELIZATION

PROJECT: HSIP-0342(009)
LAKE COUNTY
C-91-186-12
R 11 E



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.

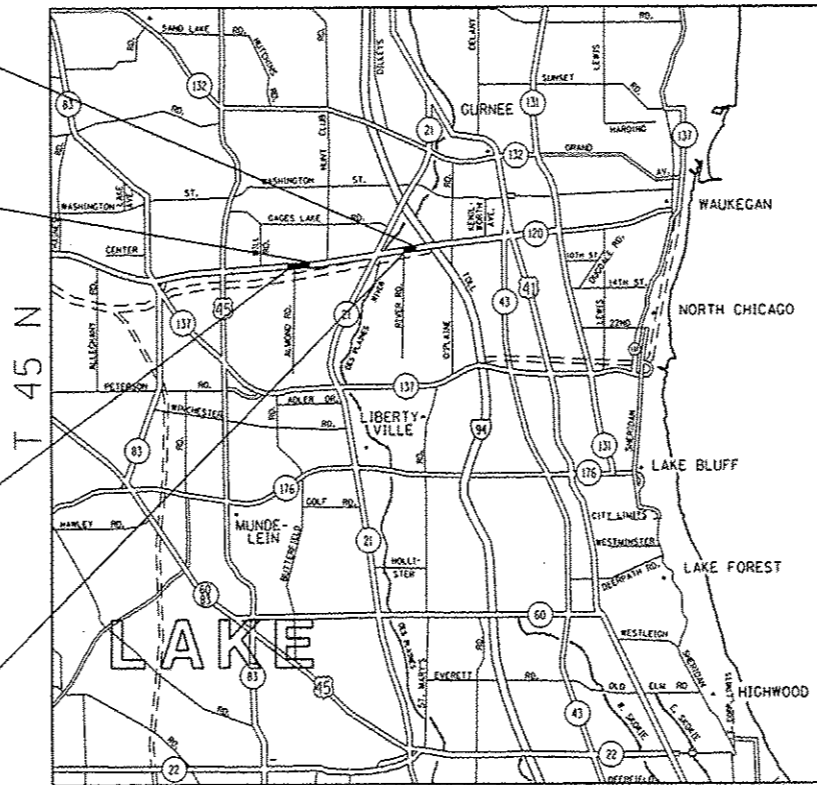
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

LOCATION 2:
PROJECT ENDS:
STATION 123+00

LOCATION 1:
PROJECT ENDS:
STATION 313+00

LOCATION 1:
PROJECT BEGINS:
STATION 306+00

LOCATION 2:
PROJECT BEGINS:
STATION 115+00



TRAFFIC DATA

2011 ADT:
IL 120 AT ALMOND ROAD = 25,700
IL 120 AT RIVER ROAD = 39,100

POSTED SPEED LIMIT:
IL 120 AT ALMOND ROAD = 45 MPH
IL 120 AT RIVER ROAD = 55 MPH

PROJECT ENGINEER DAN WILGREEN (847) 705-4240
PROJECT MANAGER KEN ENG (847) 705-4247

GROSS AND NET LENGTH OF LOCATION 1 (AT ALMOND RD) = 700 FT. = 0.13 MILE
GROSS AND NET LENGTH OF LOCATION 2 (AT RIVER RD) = 800 FT. = 0.15 MILE

CONTRACT NO. 60R59

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED June 28, 2012
[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
August 17, 2012
John D. Baranzelli, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT
August 17, 2012
William R. Frey, Jr.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

INDEX OF SHEETS

STATE STANDARDS

GENERAL NOTES

<u>SHEET NO.</u>	<u>DESCRIPTION</u>	<u>STANDARD NO.</u>	<u>DESCRIPTION</u>
1	COVER SHEET	000001-06	TYPICAL SYMBOLS, ABBREVIATIONS AND PATTERNS
2	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES	280001-06	TEMPORARY EROSION CONTROL SYSTEMS
3-5	SUMMARY OF QUANTITIES	442201-03	CLASS C AND D PATCHES
6-7	EXISTING AND PROPOSED TYPICAL SECTIONS	542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
8	SCHEDULE OF QUANTITIES (EARTHWORK)	542311-03	GRATING FOR CONCRETE FLARED END SECTION (FOR 600mm (24") THRU 1350mm (54") PIPE)
9-12	ALIGNMENT, TIES & BENCHMARKS	601001-04	SUB-SURFACE DRAINS
13-14	EXISTING AND PROPOSED ROADWAY PLAN AND PROFILE	601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
15	EROSION CONTROL NOTES	701101-02	OFF-RD OPERATIONS, MULTILANE, 15' (4.5m) TO 24' (600 mm) FROM PAVEMENT EDGE
16-17	EROSION CONTROL PLAN	701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
18-19	EXISTING & PROPOSED DRAINAGE & UTILITY PLAN	701421-04	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS > 45 MPH TO 55 MPH
20-21	PROPOSED PAVEMENT MARKING, SIGNING & LANDSCAPING PLAN	701426-04	LANE CLOSURE MULTILANE INTERMITTENT OR MOVING OPERATION FOR SPEEDS > 45 MPH
22	FLASHER INSTALLATION PLAN (IL. 120 AT ALMOND ROAD)	701601-07	URBAN LANE CLOSURE MULTILANE 1W OR 2W WITH NONTRAVERSABLE MEDIAN
23	FRAME AND GRATE AND FRAME AND LID DETAIL	701901-02	TRAFFIC CONTROL DEVICES
24	PAVEMENT PATCHING FOR HMA SURFACE PAVEMENT	720001-01	SIGN PANEL MOUNTING DETAILS
25	BUTT JOINTS AND HOT-MIX ASPHALT TAPER DETAILS	720006-03	SIGN PANEL ERECTION DETAILS
26	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTION AND DRIVEWAYS	720011-01	METAL POSTS FOR SIGNS MARKERS & DELINEATORS
27	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)	729001-01	APPLICATIONS OF TYPES A&B METAL POSTS (FOR SIGNS & MARKERS)
28	DISTRICT ONE TYPICAL PAVEMENT MARKINGS		
29	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)		
30	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING		
31	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS		
32	ARTERIAL ROAD INFORMATION SIGNING		
33-41	EXISTING AND PROPOSED CROSS-SECTIONS		

BEFORE STARTING ANY EXCAVATION THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED)

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE UTILITY COMPANIES, LAKE COUNTY DOT, WARREN TOWNSHIP, AND THE CITY OF WAUKEGAN.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

THE RESIDENT ENGINEER SHALL CONTACT MS. DEBBIE HANLON, AREA TRAFFIC ENGINEER, AT (847) 438-2300 PRIOR TO PLACING ANY PAVEMENT MARKINGS.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO START OF WORK.

WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40MM) WHERE THE SPEED LIMIT IS 40 MPH (80 KM/H) OR LESS AND 1 INCH (25MM) WHERE THE SPEED LIMIT IS GREATER THAN 40 MPH (80 KM/H). WITH WRITTEN APPROVAL OF THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H) OR A NOTCHED LONGITUDINAL WEDGE IS USED.

ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

COMMITMENTS:

- NO CONSTRUCTION ACTIVITIES WILL BE PERFORMED ON THE NORTH SIDE OF ILLINOIS ROUTE 120 (BELVIDERE ROAD) AT THE RIVER ROAD LOCATION.
- NO IN-STREAM WORK IS ALLOWED WITHIN THE DES PLAINES RIVER.

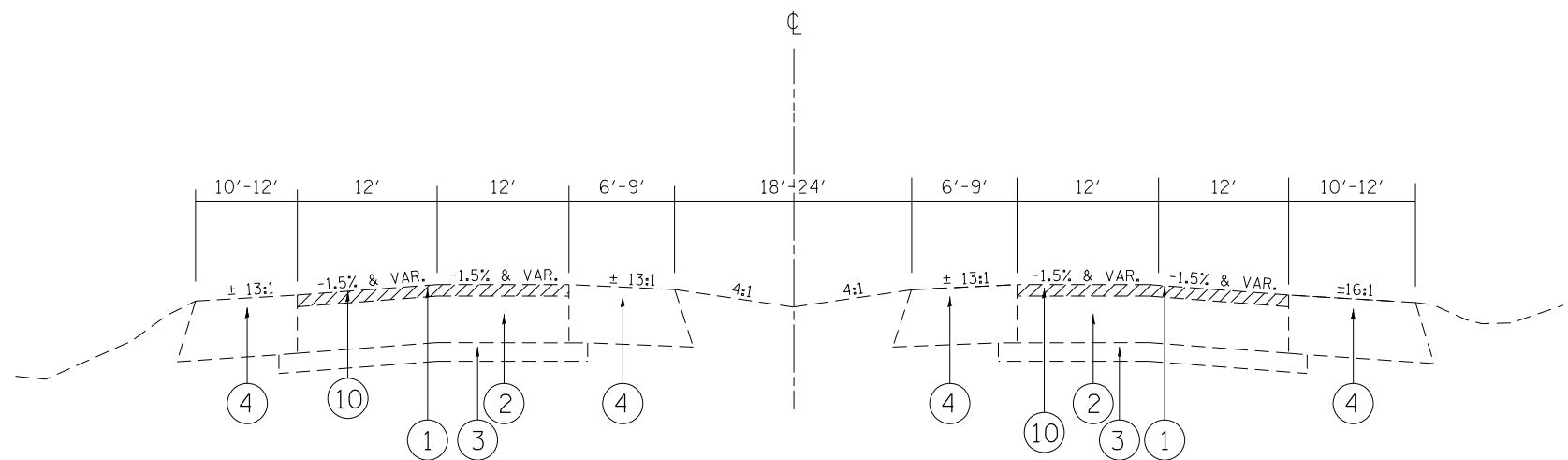
FILE NAME =	USER NAME = pncepl	DESIGNED -	REVISED -	INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES ILLINOIS ROUTE 120 AT ALMOND RD. AND RIVER RD.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwork\pncepl\2012\170309-Design.dgn		DRAWN -	REVISED -		342	2011-220-N	LAKE	41	2
PLOT SCALE = 100.0000 / 1 in.		CHECKED -	REVISED -		CONTRACT NO. 60R59				
PLOT DATE = 6/29/2012		DATE -	REVISED -		[ILLINOIS] FED. AID PROJECT				
				SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.

SUMMARY OF QUANTITIES			URBAN		CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY 0004 FED. 90% STATE 10%					
20200100	EARTH EXCAVATION	CU YD	391	391					
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	162	162					
20400800	FURNISHED EXCAVATION	CU YD	216	216					
20800150	TRENCH BACKFILL	CU YD	42	42					
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	586	586					
25000210	SEEDING, CLASS 2A	ACRE	0.45	0.45					
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	41	41					
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	41	41					
25100630	EROSION CONTROL BLANKET	SQ YD	2196	2196					
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	45	45					
28000305	TEMPORARY DITCH CHECKS	FOOT	192	192					
28000315	AGGREGATE DITCH CHECKS	TON	8	8					
28000400	PERIMETER EROSION BARRIER	FOOT	1428	1428					
28000510	INLET FILTERS	EACH	2	2					
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	1739	1739					
* SPECIALTY	ITEM								

SUMMARY OF QUANTITIES				URBAN		CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY 0004 FED. 90% STATE 10%						
35501317	HOT-MIX ASPHALT BASE COURSE, B 1/4"	SO YD	1115	1115						
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	9	9						
40600300	AGGREGATE (PRIME COAT)	TON	42	42						
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	16	16						
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), 1L-4.75, N50	TON	427	427						
40600895	CONSTRUCTING TEST STRIP	EACH	2	2						
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	126	126						
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	19	19						
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	1014	1014						
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	9230	9230						
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	226	226						
44002210	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 2-1/2"	SO YD	136	136						
* SPECIALTY	ITEM									

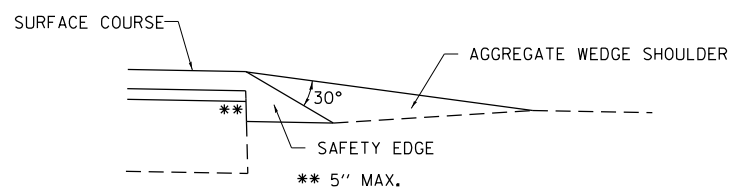
SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY 0004 FED. 90% STATE 10%					
44004000	PAVED DITCH REMOVAL	FOOT	551	551					
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SO YD	64	64					
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SO YD	59	59					
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	1130	1130					
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	180	180					
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SO YD	500	500					
50104400	CONCRETE HEADWALL REMOVAL	EACH	4	4					
50105220	PIPE CULVERT REMOVAL	FOOT	116	116					
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	4	4					
54247130	GRATING FOR CONCRETE FLARED END SECTION 24"	EACH	4	4					
542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	124	124					
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	2	2					
60107600	PIPE UNDERDRAINS 4"	FOOT	1060	1060					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6					
67100100	MOBILIZATION	L SUM	1	1					
* SPECIALTY	ITEM								

SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY 0004 FED. 90% STATE 10%					
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	1					
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1					
70300100	SHORT TERM PAVEMENT MARKING	FOOT	549	549					
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	229	229					
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	6481	6481					
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	530	530					
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	24	24					
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	2735	2735					
72000100	SIGN PANEL - TYPE 1	SO FT	61	61					
72400310	REMOVE SIGN PANEL - TYPE 1	SO FT	56	56					
72900100	METAL POST - TYPE A	FOOT	29	29					
72900200	METAL POST - TYPE B	FOOT	74.5	74.5					
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	229	229					
* SPECIALTY	ITEM								

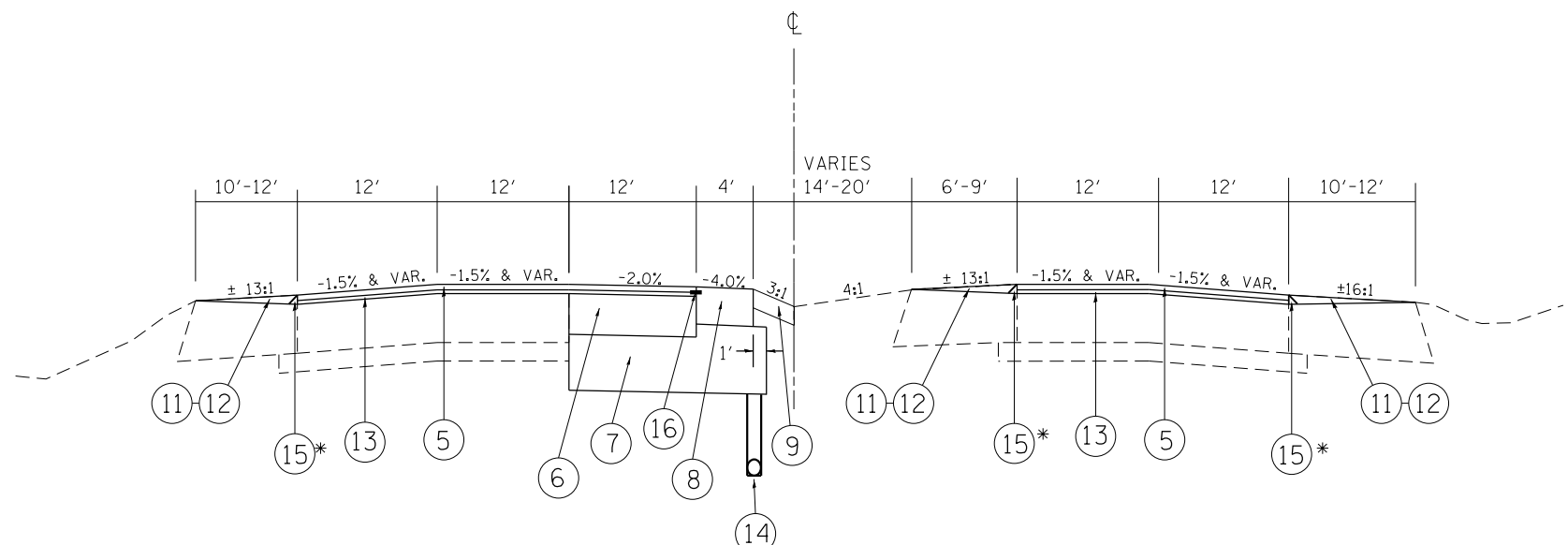


**EXISTING TYPICAL SECTION
ILLINOIS RTE 120 AT ALMOND ROAD
STA. 306+00 TO STA. 313+00**

NOTE: CONTRACTOR SHALL PATCH BEFORE MILLING



* SAFETY EDGE DETAIL



**PROPOSED TYPICAL SECTION
ILLINOIS RTE 120 AT ALMOND ROAD
STA. 306+00 TO STA. 313+00**

LEGEND:

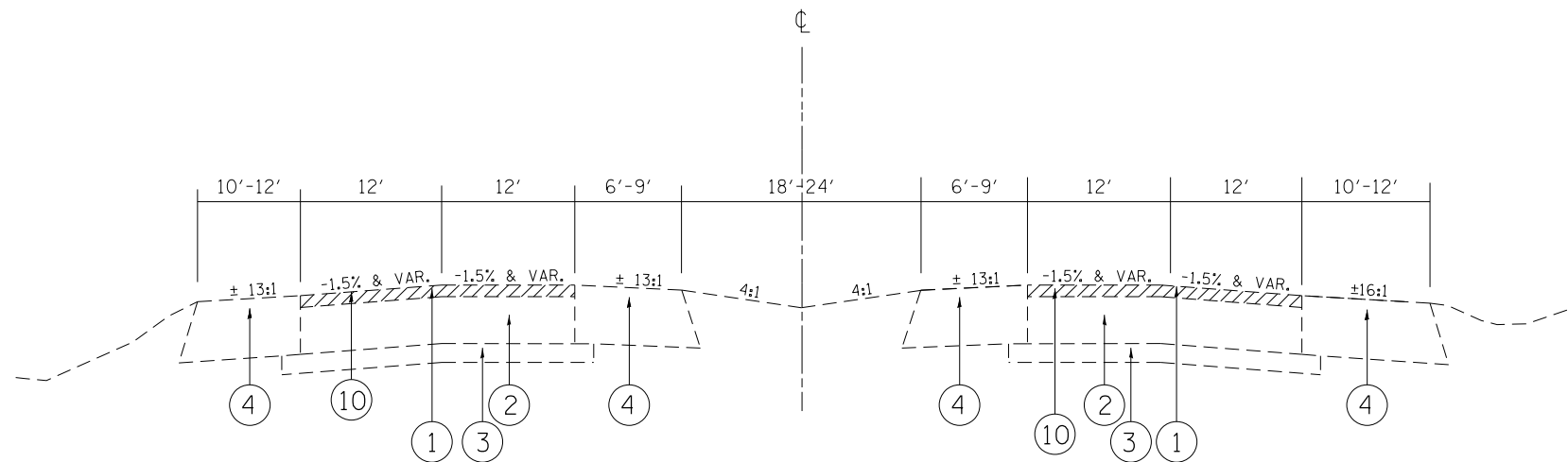
- ① EXISTING HMA SURFACE, 2-1/2" ±
- ② EXISTING PCC BASE COURSE, 10"±
- ③ EXISTING AGGREGATE BASE COURSE
- ④ EXISTING AGGREGATE SHOULDER, 6"±
- ⑤ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
- ⑥ PROPOSED HMA BASE COURSE, 8 1/4"
- ⑦ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ⑧ PROPOSED HMA SHOULDER, 8"
- ⑨ PROPOSED SEEDING AND TOPSOIL 4"
- ⑩ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
- ⑪ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑫ PROPOSED GRADING AND SHAPING SHOULDERS
- ⑬ PROPOSED POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4"
- ⑭ PROPOSED PIPE UNDERDRAIN, 4" STA. 307+51 to STA. 312+81, ± 30" BELOW TOP OF PAVEMENT
- ⑮ PROPOSED SAFETY EDGE
- ⑯ PROPOSED STRIP REFLECTIVE CRACK CONTROL TREATMENT

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS(%) AT N _{DES}
PAVEMENT WIDENING AND RESURFACING	
POLYMERIZED HMA SURFACE COURSE, MIX "F", N90 (IL-9.5mm), 1 3/4"	4% AT 90 GYR.
POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4"	3.5% AT 50 GYR.
HMA BASE COURSE (HMA BINDER IL-19mm), 8 1/4" (3 LIFTS)	4% AT 90 GYR.
SHOULDERS	
POLYMERIZED HMA SURFACE COURSE, MIX "F", N90 (IL-9.5mm), 1 3/4"	4% AT 90 GYR.
HMA BASE COURSE (HMA BINDER IL-19mm), 6 1/4" (2 LIFTS)	4% AT 90 GYR.
PATCHING	
CLASS D PATCHES (HMA BINDER IL-19mm)	4% AT 70 GYR.
HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19mm)	4% AT 70 GYR.

NOTE:

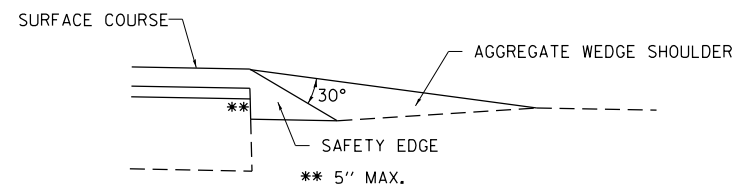
THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE SPECIAL PROVISIONS.

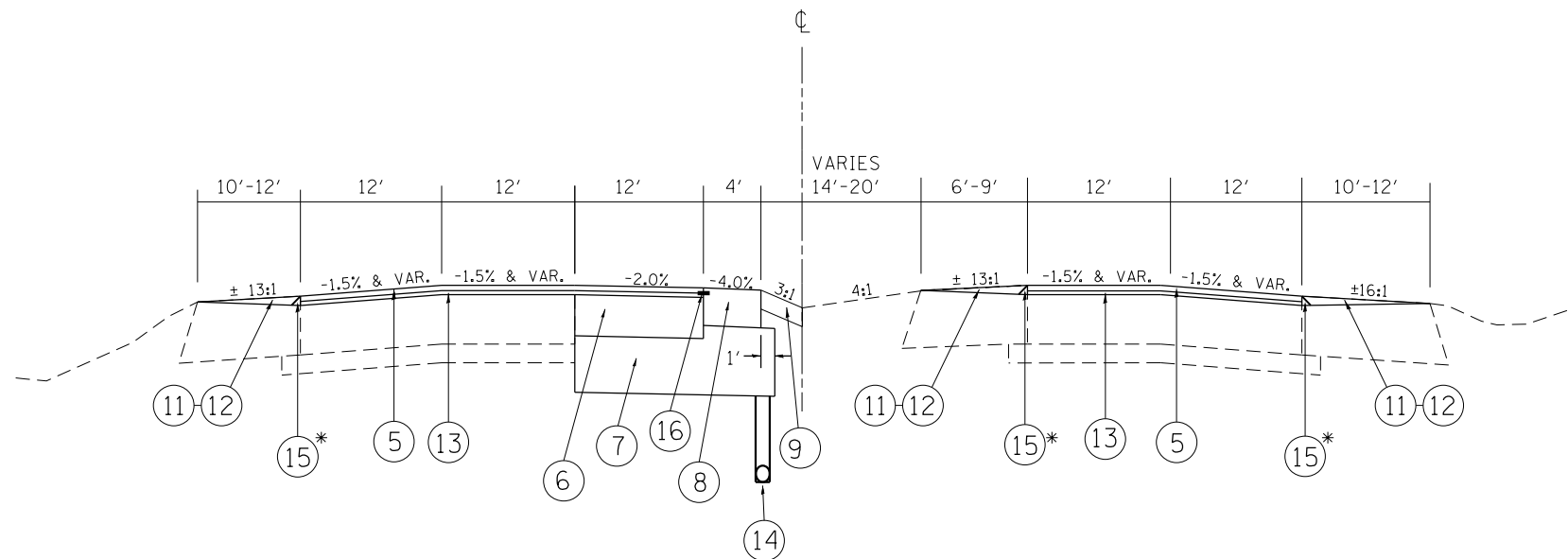


**EXISTING TYPICAL SECTION
ILLINOIS RTE 120 AT N. RIVER ROAD
STA. 115+00 TO STA. 123+00**

NOTE: CONTRACTOR SHALL PATCH BEFORE MILLING



* SAFETY EDGE DETAIL



**PROPOSED TYPICAL SECTION
ILLINOIS RTE 120 AT N. RIVER ROAD
STA. 115+00 TO STA. 123+00**

LEGEND:

- ① EXISTING HMA SURFACE, 2-1/2" ±
- ② EXISTING PCC BASE COURSE, 10"±
- ③ EXISTING AGGREGATE BASE COURSE
- ④ EXISTING AGGREGATE SHOULDER, 6"±
- ⑤ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
- ⑥ PROPOSED HMA BASE COURSE, 8 1/4"
- ⑦ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ⑧ PROPOSED HMA SHOULDER, 8"
- ⑨ PROPOSED SEEDING AND TOPSOIL 4"
- ⑩ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
- ⑪ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑫ PROPOSED GRADING AND SHAPING SHOULDERS
- ⑬ PROPOSED POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4"
- ⑭ PROPOSED PIPE UNDERDRAIN, 4" STA. 116+46 to STA. 121+76, ± 30" BELOW TOP OF PAVEMENT
- ⑮ PROPOSED SAFETY EDGE
- ⑯ PROPOSED STRIP REFLECTIVE CRACK CONTROL TREATMENT

FILE NAME =	USER NAME = wilgreendp	DESIGNED -	REVISED - 7/25/2012 - D.W.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED TYPICAL SECTIONS ILLINOIS ROUTE 120 AT ALMOND RD. AND RIVER RD.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw\work\p\dot\wilgreendp\d0187967\PI70309-Design.dgn	DRAWN -	REVISED -	342			2011-220-N	LAKE	41	7	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 60R59							
PLOT DATE = 7/26/2012	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
				SHEET OF SHEETS STA. TO STA.						

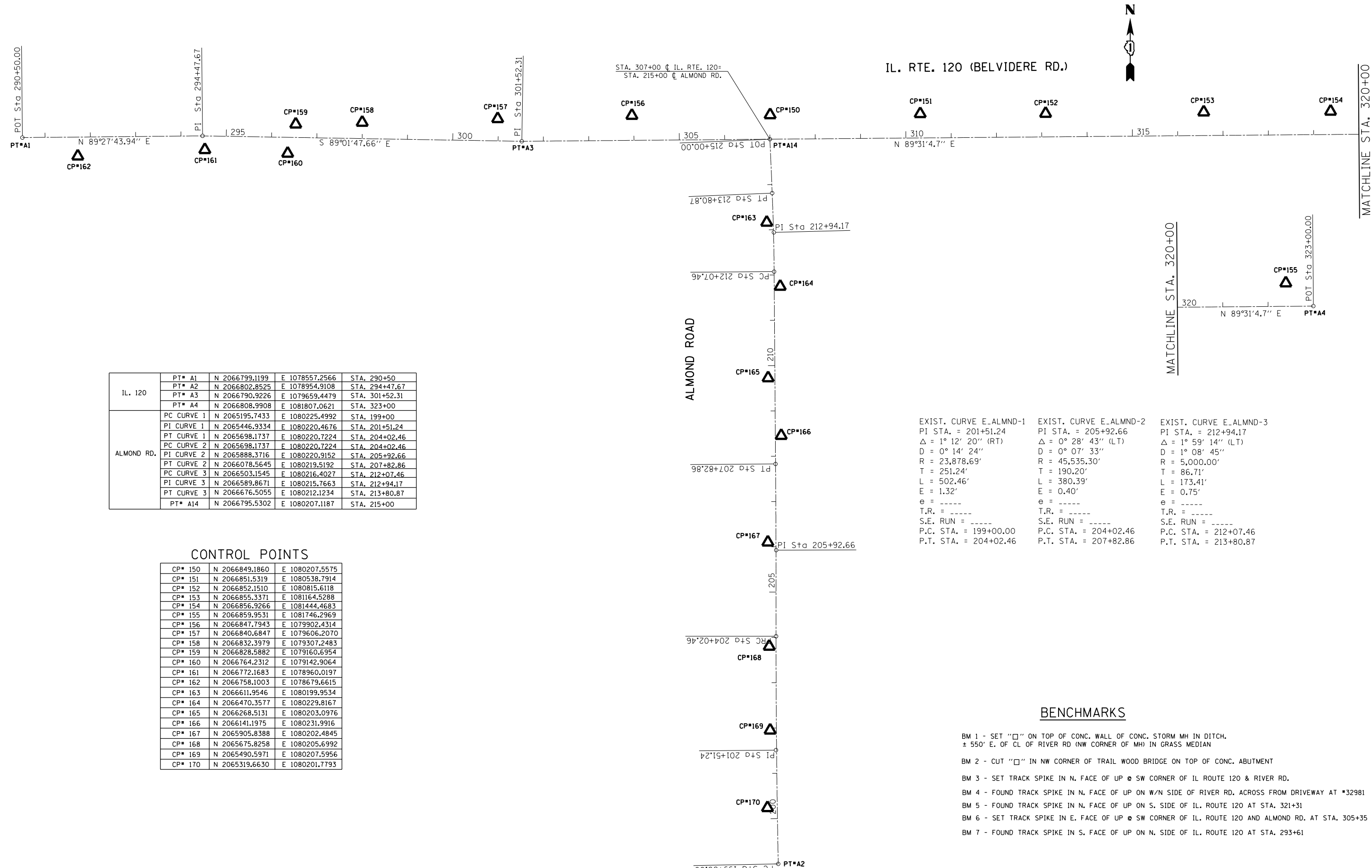
SCHEDULE OF QUANTITIES (EARTHWORK)						
1	2	3	4	5	6	7
IL 120	Earth Excavation (Cu. Yd.)	Unsuitable Material (Cu. Yd.)	Embankment (Cu. Yd.)	Adjustment for Shrinkage (Cu. Yd.)	Furnished Excavation (Cu. Yd.)	Top Soil Excavate and Place (Cu. Yd.)
IL 120 AT ALMOND RD. STA. 306+00 TO 313+00, MEDIAN	188.74	76.12	283.52	160.43	-123.09	281.65
IL 120 AT RIVER RD. STA. 115+00 TO 123+00, MEDIAN	201.64	85.07	264.04	171.39	-92.64	303.96
TOTAL	390.38	161.19	547.56	331.82	-215.73	585.61
Column 1: Location from plans				Column 5: Earth excavation that is to be used as fill material		
Column 2: Cut quantities after unsuitable material is removed				in the embankment, shrinkage factor was		
				determined to be 15%		
Column 3: Material that is determined to be either unstable				Column 6: Column 5 - Column 4, Positive Quantity = extra		
or unsuitable from use in embankment. (Aggregate				excavation, negative quantity = furnished		
shoulder removed at 6" average depth)				excavation needed.		
Column 4: Fill quantities after unsuitable material and topsoil are removed				Column 7: Topsoil Excavate and Placement (Top 12" of topsoil to be		
				salvaged and reused)		

FILE NAME =	USER NAME = pencepl	DESIGNED -	REVISED -
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		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES (EARTHWORK)			
ILLINOIS ROUTE 120 AT ALMOND RD. AND RIVER RD.			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2011-220-N	LAKE	41	8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60R59	



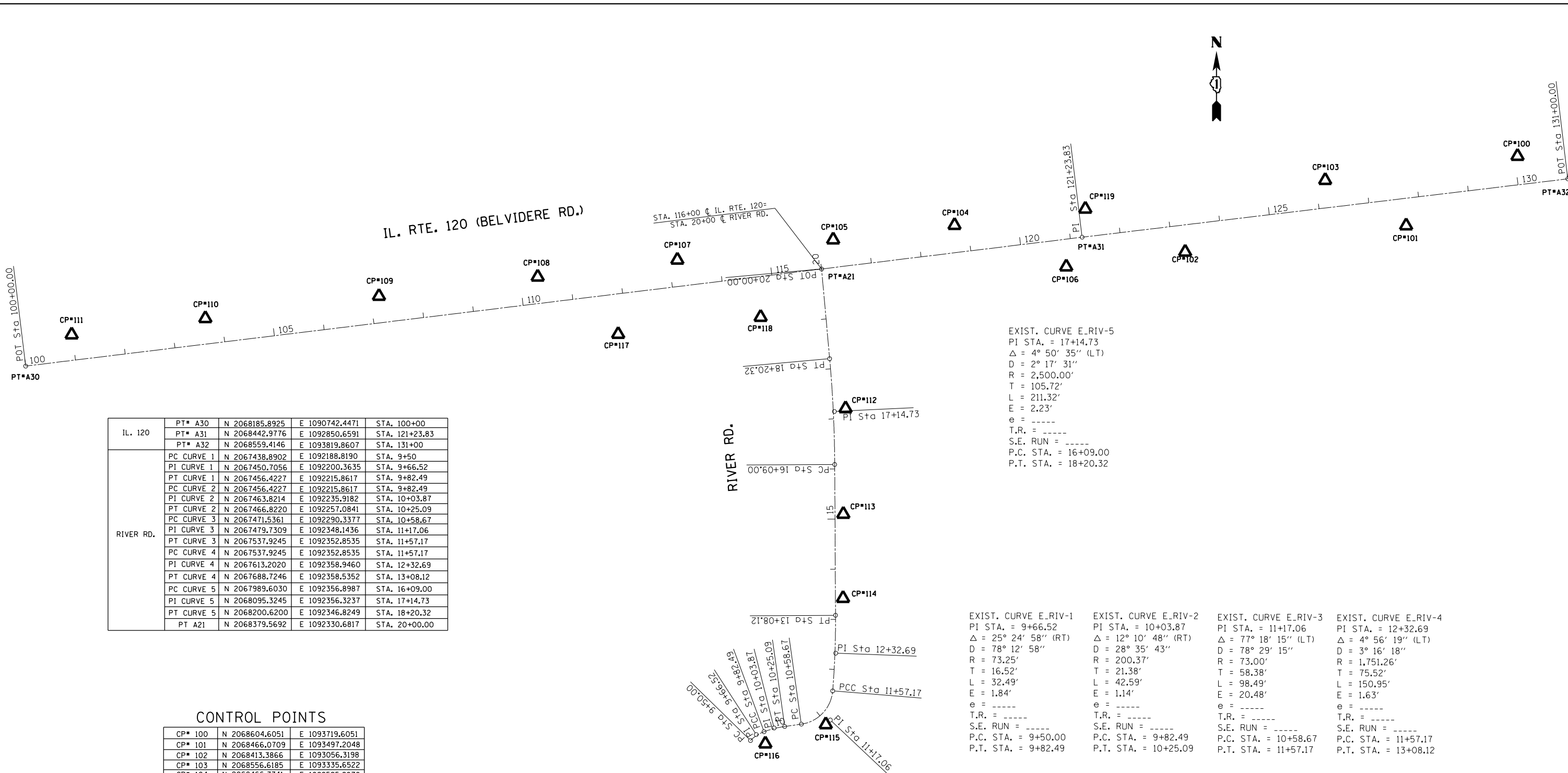
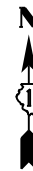
IL. 120	PT* A1	N 2066799.1199	E 1078557.2566	STA. 290+50
	PT* A2	N 2066802.8525	E 1078954.9108	STA. 294+47.67
	PT* A3	N 2066790.9226	E 1079659.4479	STA. 301+52.31
	PT* A4	N 2066808.9908	E 1081807.0621	STA. 323+00
ALMOND RD.	PC CURVE 1	N 2065195.7433	E 1080225.4992	STA. 199+00
	PI CURVE 1	N 2065446.9334	E 1080220.4676	STA. 201+51.24
	PT CURVE 1	N 2065698.1737	E 1080220.7224	STA. 204+02.46
	PC CURVE 2	N 2065698.1737	E 1080220.7224	STA. 204+02.46
	PI CURVE 2	N 2065888.3716	E 1080220.9152	STA. 205+92.66
	PT CURVE 2	N 2066078.5645	E 1080219.5192	STA. 207+82.86
	PC CURVE 3	N 2066503.1545	E 1080216.4027	STA. 212+07.46
	PI CURVE 3	N 2066589.8671	E 1080215.7663	STA. 212+94.17
	PT CURVE 3	N 2066676.5055	E 1080212.1234	STA. 213+80.87
	PT* A14	N 2066795.5302	E 1080207.1187	STA. 215+00

CONTROL POINTS

CP# 150	N 2066849.1860	E 1080207.5575
CP# 151	N 2066851.5319	E 1080538.7914
CP# 152	N 2066852.1510	E 1080815.6118
CP# 153	N 2066855.3371	E 1081164.5288
CP# 154	N 2066856.9266	E 1081444.4683
CP# 155	N 2066859.9531	E 1081746.2969
CP# 156	N 2066847.7943	E 1079902.4314
CP# 157	N 2066840.6847	E 1079606.2070
CP# 158	N 2066832.3979	E 1079307.2483
CP# 159	N 2066828.5882	E 1079160.6954
CP# 160	N 2066764.2312	E 1079142.9064
CP# 161	N 2066772.1683	E 1078960.0197
CP# 162	N 2066758.1003	E 1078679.6615
CP# 163	N 2066611.9546	E 1080199.9534
CP# 164	N 2066470.3577	E 1080229.8167
CP# 165	N 2066268.5131	E 1080203.0976
CP# 166	N 2066141.1975	E 1080231.9916
CP# 167	N 2065905.8388	E 1080202.4845
CP# 168	N 2065675.8258	E 1080205.6992
CP# 169	N 2065490.5971	E 1080207.5956
CP# 170	N 2065319.6630	E 1080201.7793

EXIST. CURVE E-ALMND-1 PI STA. = 201+51.24 Δ = 1° 12' 20" (RT) D = 0° 14' 24" R = 23,878.69' T = 251.24' L = 502.46' E = 1.32' e = ----- T.R. = ----- S.E. RUN = ----- P.C. STA. = 199+00.00 P.T. STA. = 204+02.46	EXIST. CURVE E-ALMND-2 PI STA. = 205+92.66 Δ = 0° 28' 43" (LT) D = 0° 07' 33" R = 45,535.30' T = 190.20' L = 380.39' E = 0.40' e = ----- T.R. = ----- S.E. RUN = ----- P.C. STA. = 204+02.46 P.T. STA. = 207+82.86	EXIST. CURVE E-ALMND-3 PI STA. = 212+94.17 Δ = 1° 59' 14" (LT) D = 1° 08' 45" R = 5,000.00' T = 86.71' L = 173.41' E = 0.75' e = ----- T.R. = ----- S.E. RUN = ----- P.C. STA. = 212+07.46 P.T. STA. = 213+80.87
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- BENCHMARKS**
- BM 1 - SET "□" ON TOP OF CONC. WALL OF CONC. STORM MH IN DITCH. ± 550' E. OF CL OF RIVER RD (NW CORNER OF MH) IN GRASS MEDIAN
 - BM 2 - CUT "□" IN NW CORNER OF TRAIL WOOD BRIDGE ON TOP OF CONC. ABUTMENT
 - BM 3 - SET TRACK SPIKE IN N. FACE OF UP @ SW CORNER OF IL ROUTE 120 & RIVER RD.
 - BM 4 - FOUND TRACK SPIKE IN N. FACE OF UP ON W/N SIDE OF RIVER RD. ACROSS FROM DRIVEWAY AT #32981
 - BM 5 - FOUND TRACK SPIKE IN N. FACE OF UP ON S. SIDE OF IL. ROUTE 120 AT STA. 321+31
 - BM 6 - SET TRACK SPIKE IN E. FACE OF UP @ SW CORNER OF IL. ROUTE 120 AND ALMOND RD. AT STA. 305+35
 - BM 7 - FOUND TRACK SPIKE IN S. FACE OF UP ON N. SIDE OF IL. ROUTE 120 AT STA. 293+61



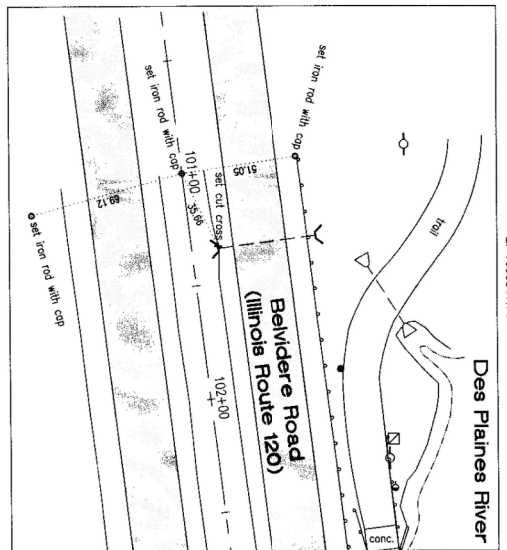
IL. 120	PT#	A30	N	2068185.8925	E	1090742.4471	STA.	100+00
	PT#	A31	N	2068442.9776	E	1092850.6591	STA.	121+23.83
	PT#	A32	N	2068559.4146	E	1093819.8607	STA.	131+00
RIVER RD.	PC CURVE 1	N	2067438.8902	E	1092188.8190	STA.	9+50	
	PI CURVE 1	N	2067450.7056	E	1092200.3635	STA.	9+66.52	
	PT CURVE 1	N	2067456.4227	E	1092215.8617	STA.	9+82.49	
	PC CURVE 2	N	2067456.4227	E	1092215.8617	STA.	9+82.49	
	PI CURVE 2	N	2067463.8214	E	1092235.9182	STA.	10+03.87	
	PT CURVE 2	N	2067466.8220	E	1092257.0841	STA.	10+25.09	
	PC CURVE 3	N	2067471.5361	E	1092290.3377	STA.	10+58.67	
	PI CURVE 3	N	2067479.7309	E	1092348.1436	STA.	11+17.06	
	PT CURVE 3	N	2067537.9245	E	1092352.8535	STA.	11+57.17	
	PC CURVE 4	N	2067537.9245	E	1092352.8535	STA.	11+57.17	
	PI CURVE 4	N	2067613.2020	E	1092358.9460	STA.	12+32.69	
	PT CURVE 4	N	2067688.7246	E	1092358.5352	STA.	13+08.12	
	PC CURVE 5	N	2067989.6030	E	1092356.8987	STA.	16+09.00	
	PI CURVE 5	N	2068095.3245	E	1092356.3237	STA.	17+14.73	
	PT CURVE 5	N	2068200.6200	E	1092346.8249	STA.	18+20.32	
	PT	A21	N	2068379.5692	E	1092330.6817	STA.	20+00.00

CONTROL POINTS

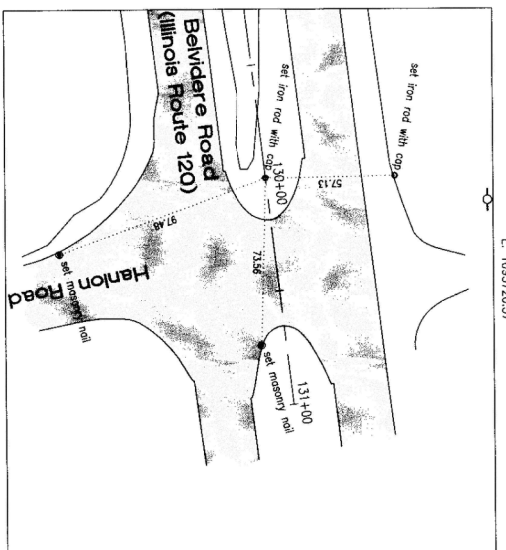
CP# 100	N	2068604.6051	E	1093719.6051
CP# 101	N	2068466.0709	E	1093497.2048
CP# 102	N	2068413.3866	E	1093056.3198
CP# 103	N	2068556.6185	E	1093335.6522
CP# 104	N	2068466.7741	E	1092595.9870
CP# 105	N	2068438.0261	E	1092353.8337
CP# 106	N	2068384.1467	E	1092818.9719
CP# 107	N	2068397.7217	E	1092042.9555
CP# 108	N	2068363.6750	E	1091764.0951
CP# 109	N	2068325.2862	E	1091447.5672
CP# 110	N	2068280.9871	E	1091100.8888
CP# 111	N	2068248.5083	E	1090834.2923
CP# 112	N	2068101.2360	E	1092378.4236
CP# 113	N	2067890.5592	E	1092374.0139
CP# 114	N	2067722.6937	E	1092373.5752
CP# 115	N	2067470.7526	E	1092338.9818
CP# 116	N	2067432.3008	E	1092218.5536
CP# 117	N	2068249.4407	E	1091924.6823
CP# 118	N	2068283.4735	E	1092209.0880
CP# 119	N	2068499.4793	E	1092857.1572

EXIST. CURVE E-RIV-5
 PI STA. = 17+14.73
 Δ = 4° 50' 35" (LT)
 D = 2° 17' 31"
 R = 2,500.00'
 T = 105.72'
 L = 211.32'
 E = 2.23'
 e = ----
 T.R. = ----
 S.E. RUN = ----
 P.C. STA. = 16+09.00
 P.T. STA. = 18+20.32

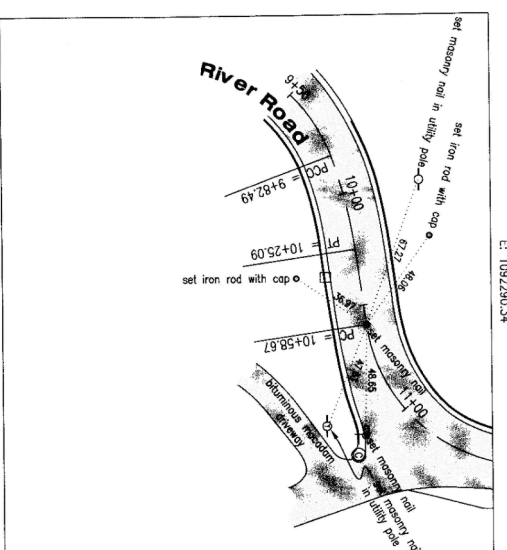
EXIST. CURVE E-RIV-1 PI STA. = 9+66.52 Δ = 25° 24' 58" (RT) D = 78° 12' 58" R = 73.25' T = 16.52' L = 32.49' E = 1.84' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA. = 9+50.00 P.T. STA. = 9+82.49	EXIST. CURVE E-RIV-2 PI STA. = 10+03.87 Δ = 12° 10' 48" (RT) D = 28° 35' 43" R = 200.37' T = 21.38' L = 42.59' E = 1.14' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA. = 9+82.49 P.T. STA. = 10+25.09	EXIST. CURVE E-RIV-3 PI STA. = 11+17.06 Δ = 77° 18' 15" (LT) D = 78° 29' 15" R = 73.00' T = 58.38' L = 98.49' E = 20.48' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA. = 10+58.67 P.T. STA. = 11+57.17	EXIST. CURVE E-RIV-4 PI STA. = 12+32.69 Δ = 4° 56' 19" (LT) D = 3° 16' 18" R = 1,751.26' T = 75.52' L = 150.95' E = 1.63' e = ---- T.R. = ---- S.E. RUN = ---- P.C. STA. = 11+57.17 P.T. STA. = 13+08.12
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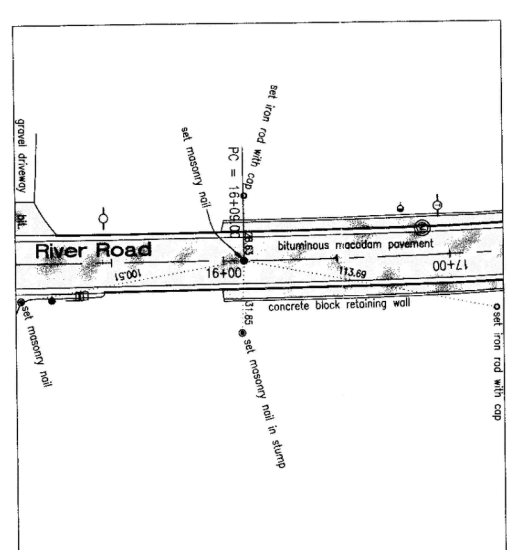
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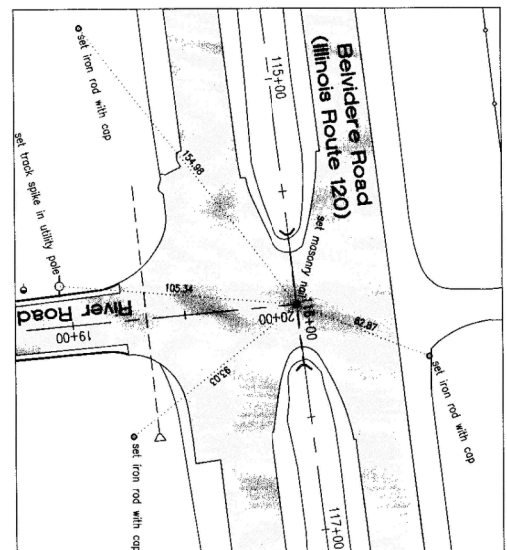
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E: 1092720.57



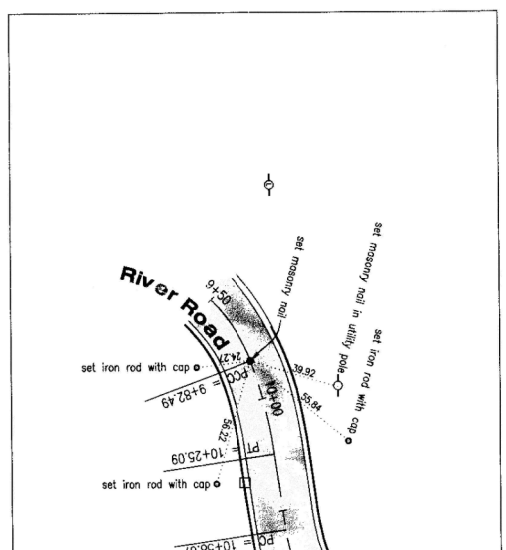
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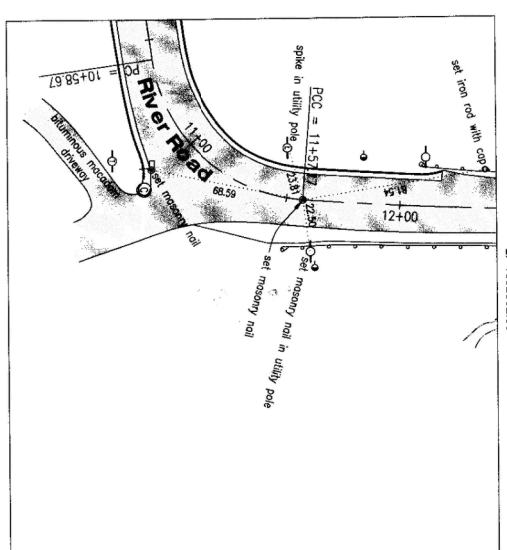
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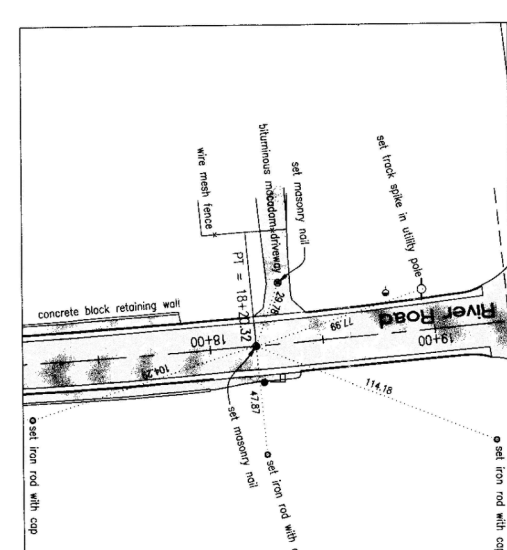
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S1A_20+00.00 (River Road)
N: 2068179.57
E: 1092330.68



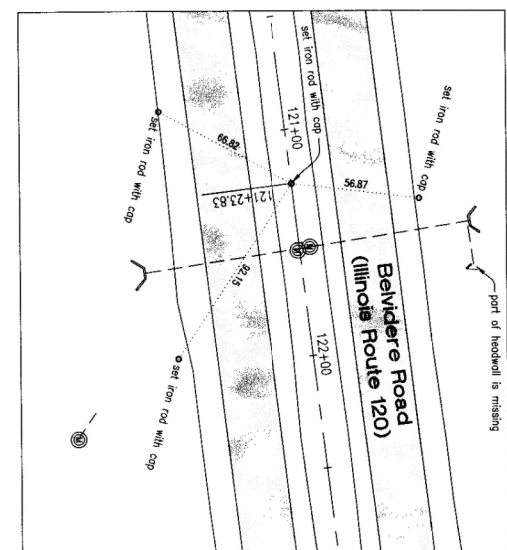
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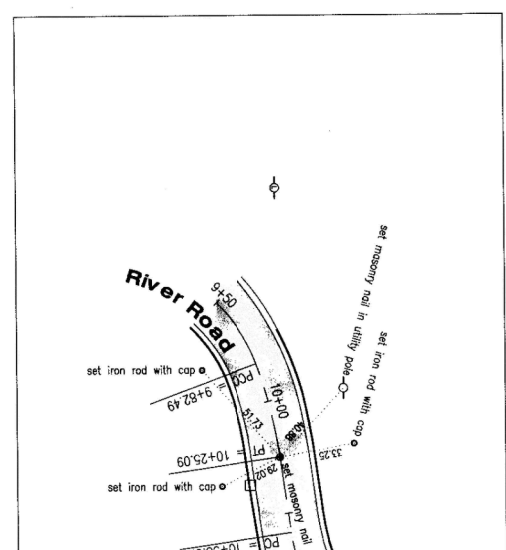
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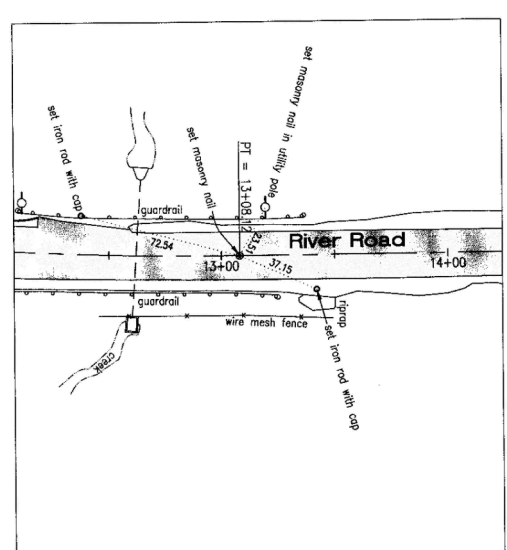
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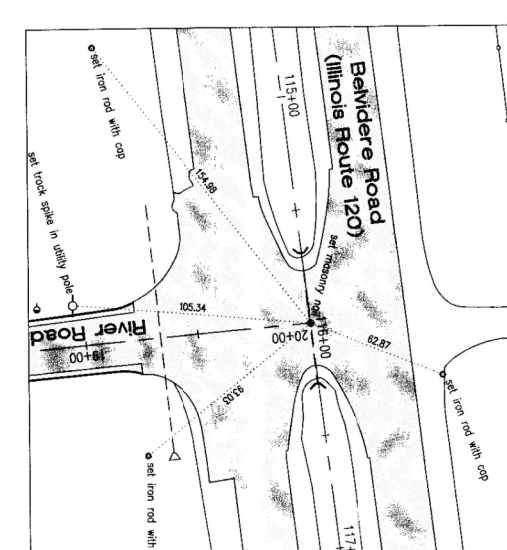
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E: 1092850.66



S1A_10+25.09
N: 2067468.82
E: 1092257.08



S1A_13+08.12
N: 2067660.72
E: 1092358.54



S1A_20+00.00 (River Road)
S1A_116+00.00 (Belvidere Road)
N: 2068179.57
E: 1092330.68

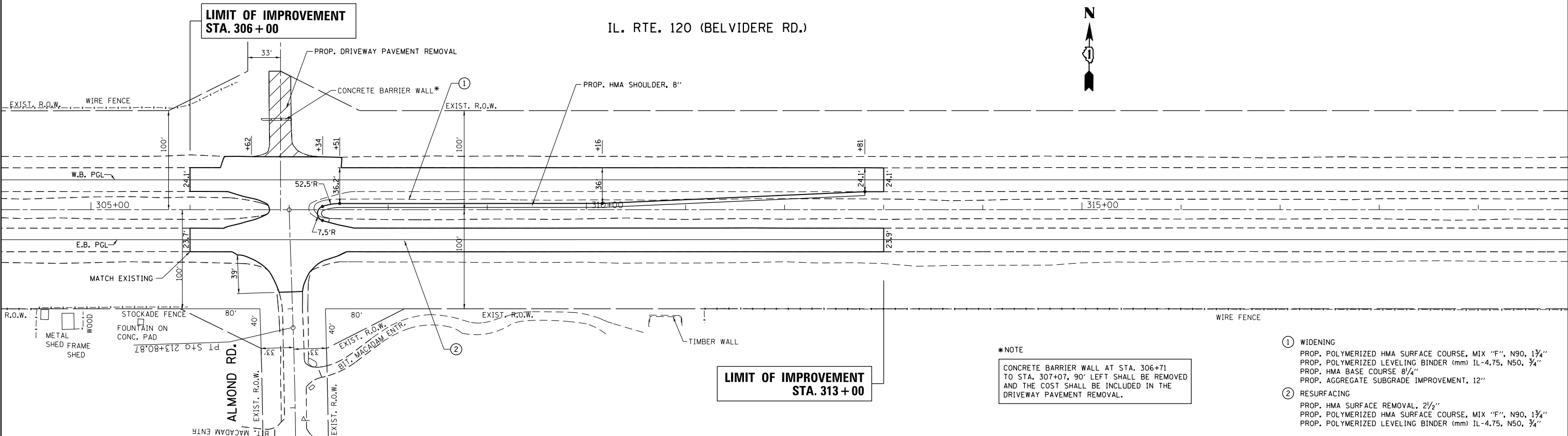
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Default	Default	DRAWN -	REVISED -		ILLINOIS ROUTE 120 AT RIVER RD.			342	2011-220-N	LAKE	41	11	
		CHECKED -	REVISED -		SCALE: 1"=100'								
		DATE -	REVISED -		SHEET OF SHEETS STA. TO STA.								
												CONTRACT NO. 60R59	
												ILLINOIS FED. AID PROJECT	

IL. RTE. 120 (BELVIDERE RD.)



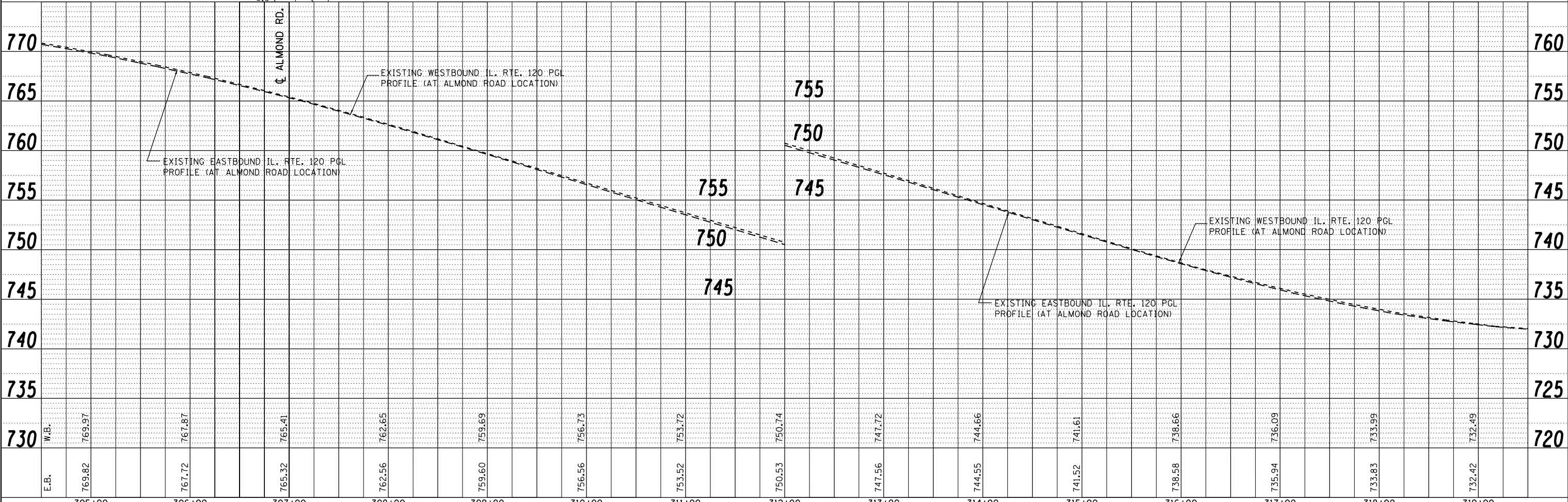
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	PLOTTED		
	ALIGNED		
	CHECKED		
	FILE NAME		

PROFILE	SURVEYED	BY	DATE
	GRADES		
	CHECKED		
	STRUCTURE		
	NOTATIONS		



*NOTE
CONCRETE BARRIER WALL AT STA. 306+71 TO STA. 307+07, 90' LEFT SHALL BE REMOVED AND THE COST SHALL BE INCLUDED IN THE DRIVEWAY PAVEMENT REMOVAL.

- ① WIDENING
PROP. POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
PROP. POLYMERIZED LEVELING BINDER (mm) IL-4.75, N50, 3/4"
PROP. HMA BASE COURSE 8/4"
PROP. AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ② RESURFACING
PROP. HMA SURFACE REMOVAL, 2 1/2"
PROP. POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
PROP. POLYMERIZED LEVELING BINDER (mm) IL-4.75, N50, 3/4"



FILE NAME =	USER NAME = pencepl	DESIGNED -	REVISED -
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		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

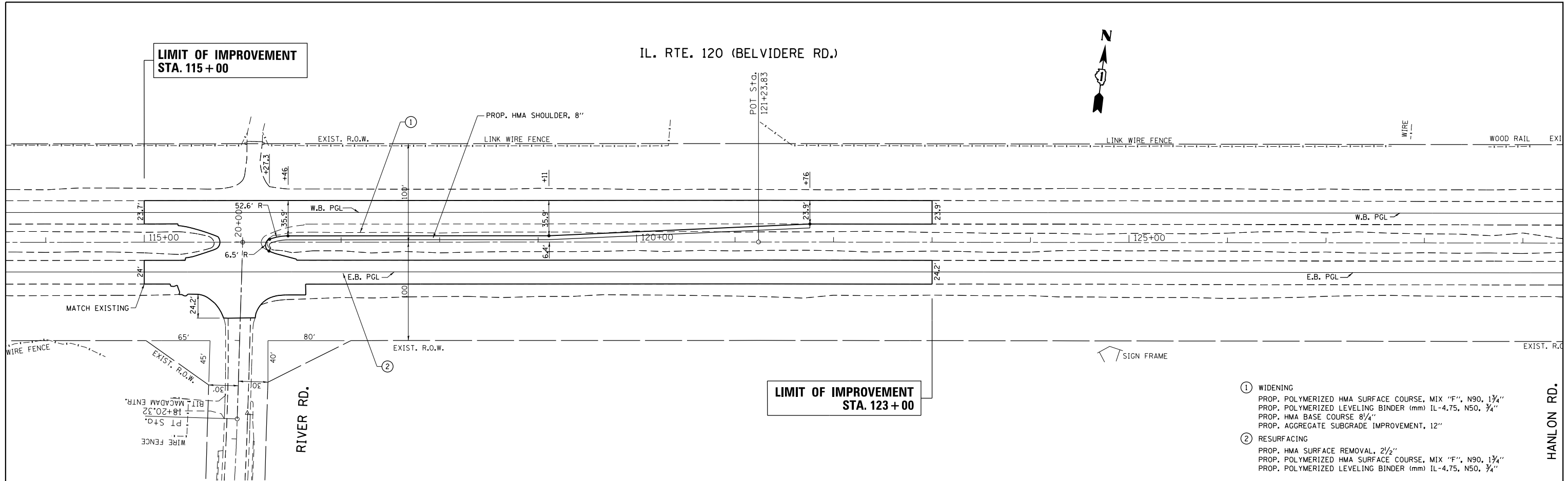
PLAN AND PROFILE
ILLINOIS ROUTE 120 AT ALMOND ROAD

SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

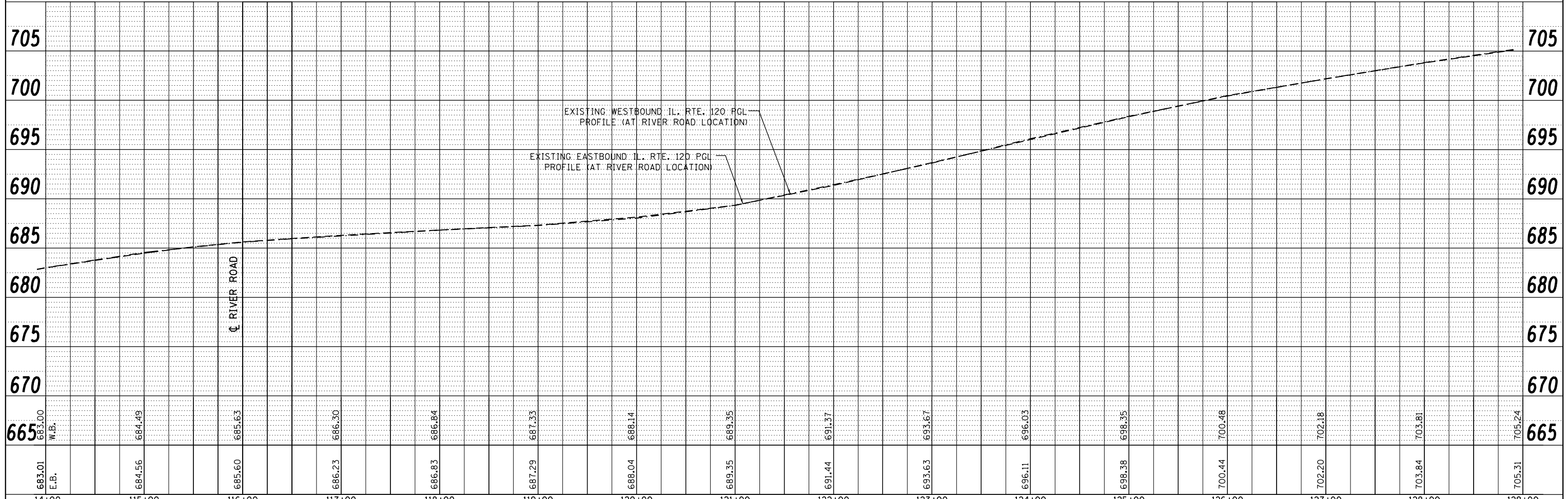
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2011-220-N	LAKE	41	13
CONTRACT NO. 60R59				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	NO.		
	ALIGNED		
	CHECKED		
	FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	NO.		
	STRUCTURE		
	NOTATIONS		



- ① WIDENING
 PROP. POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
 PROP. POLYMERIZED LEVELING BINDER (mm) IL-4.75, N50, 3/4"
 PROP. HMA BASE COURSE 8/4"
 PROP. AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ② RESURFACING
 PROP. HMA SURFACE REMOVAL, 2 1/2"
 PROP. POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
 PROP. POLYMERIZED LEVELING BINDER (mm) IL-4.75, N50, 3/4"



FILE NAME =	USER NAME = pencepl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE ILLINOIS ROUTE 120 AT RIVER ROAD		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\pencepl\d0187990\F170309.sht-plnprf.dgn		DRAWN -	REVISED -		342	2011-220-N	LAKE	41	14		
PLOT SCALE = 100.0081' / in.		CHECKED -	REVISED -		CONTRACT NO. 60R59						
PLOT DATE = 6/29/2012		DATE -	REVISED -		ILLINOIS FED. AID PROJECT						

THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES IMMEDIATELY AFTER STRIPPING OF EXISTING VEGETATION.

NO RUNOFF FROM STRIPPED AREAS WILL LEAVE THE SITE OTHER THAN THROUGH SEDIMENTATION/STILLING BASINS. THE CONTRACTOR WILL ADJUST HIS OPERATIONS AND IMPLEMENT EROSION CONTROL MEASURES ACCORDINGLY.

THE CONTRACTOR SHALL SURROUND ALL EARTH STOCKPILES WITH SILT FENCE AND SHALL BE PAID FOR AS PERIMETER EROSION BARRIER, EROSION CONTROL MEASURES SHALL BE INSPECTED BY THE CONTRACTOR AND ENGINEER WITHIN 24 HOURS OR ANY STORM EXCEEDING 0.5 INCH OF PRECIPITATION.

STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN THREE (3) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE). STOCKPILES TO REMAIN IN PLACE FOR 21 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT POLLUTION OF STORM WATER AND SHALL FOLLOW IEPA & IDOT CONSTRUCTION MEMORANDUM NO. 06-60.

THE CONTRACTOR SHALL APPLY TEMPORARY EROSION CONTROL SEEDING TO ALL ERODIBLE BARE EARTH AREAS WITHIN THE CONTRACT LIMITS EACH WEEK, REGARDLESS OF WEATHER CONDITIONS OR PROGRESS OF THE WORK. UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ERODIBLE EMBANKMENT AND EXCAVATION AREAS WHERE WORK IS IN PROGRESS SHALL BE INCLUDED ON THE AREAS TO BE SEEDED. SEE SPECIAL PROVISION FOR TEMPORARY EROSION CONTROL SEEDING.

REFER TO LANDSCAPING PLAN FOR AREA TO BE SEEDED.

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL.

ALL ADJACENT STREETS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY AND CLEANED WHEN NECESSARY.

ALL EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND AFTER EACH 1/2 " RAIN EVENT.

PRIORITY SHALL BE GIVEN TO THE COMPLETION AND STABILIZATION OF THE DETENTION AREAS. WORK IN THESE AREAS SHALL NOT BE PROLONGED IN ATTEMPT THAT ALL FINAL GRADING AND STABILIZATION CAN TAKE PLACE AT ONE TIME.

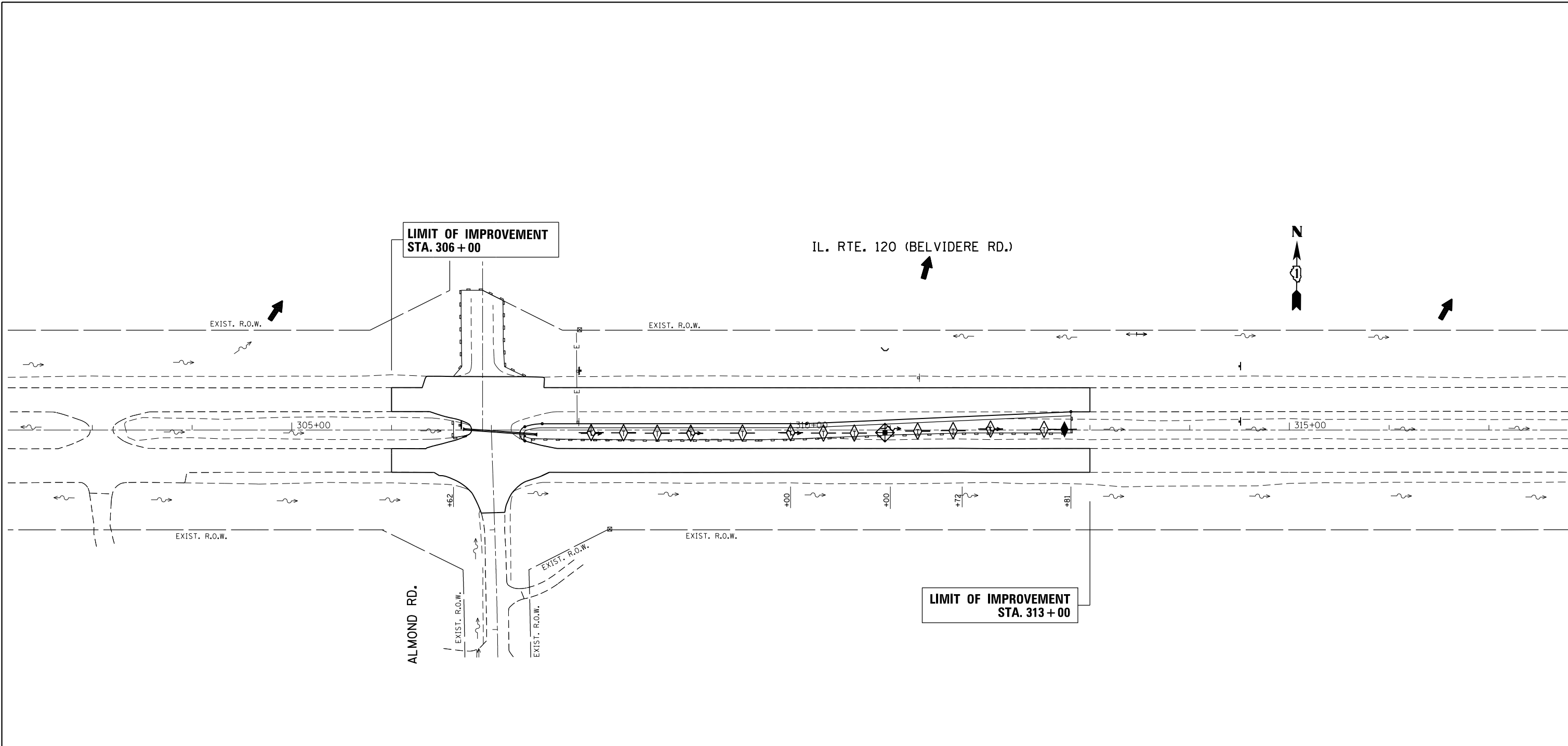
THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL.

SILT FENCE IS TO BE INSTALLED FOLLOWING THE COMPLETION AND STABILIZATION OF THE STORM WATER FACILITIES AND IS TO REMAIN IN PLACE UNTIL THE CONTRIBUTING AREA IS STABILIZED.





IN AREAS WHERE WORK IS COMPLETE, PERMANENT STABILIZATION SHALL OCCUR WITHIN 7 DAYS OF COMPLETION.

COMPLETED SLOPES SHALL BE SEEDED (OR BLANKETED, IF APPLICABLE) AS THE EXCAVATION PROCEEDS TO THE EXTENT CONSIDERED DESIRABLE AND PRACTICAL. PERMANENT SEEDING SHALL BE USED WHENEVER POSSIBLE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME. NO WORK SHALL BE PERFORMED IN FLOWING WATER. WATER IN AND NEAR THE CRITICAL AREAS SHOULD BE ISOLATED FROM CONCENTRATED FLOWS OR STREAM FLOW. THE STREAM BANKS SHOULD BE STABILIZED AT THE END OF EACH DAY. ONCE WORK IN THIS AREA BEGINS, PRIORITY SHALL BE GIVEN TO THE COMPLETION OF THE WORK AND FINAL STABILIZATION OF ALL DISTURBED AREAS.

FILE NAME =	USER NAME = pencepl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL NOTES ILLINOIS ROUTE 120 AT ALMOND RD. AND RIVER RD.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p\idot\pencepl\d0187967\p170309-Design.dgn	DRAWN -	REVISED -	342			2011-220-N	LAKE	41	15	
PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -	CONTRACT NO. 60R59							
PLOT DATE = 6/29/2012	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
				SCALE:	SHEET NO. OF SHEETS	STA. TO STA.				



LEGEND

-  PERIMETER EROSION BARRIER
-  TEMPORARY DITCH CHECKS
-  INLET FILTERS
-  AGGREGATE DITCH CHECK (PERMANENT)

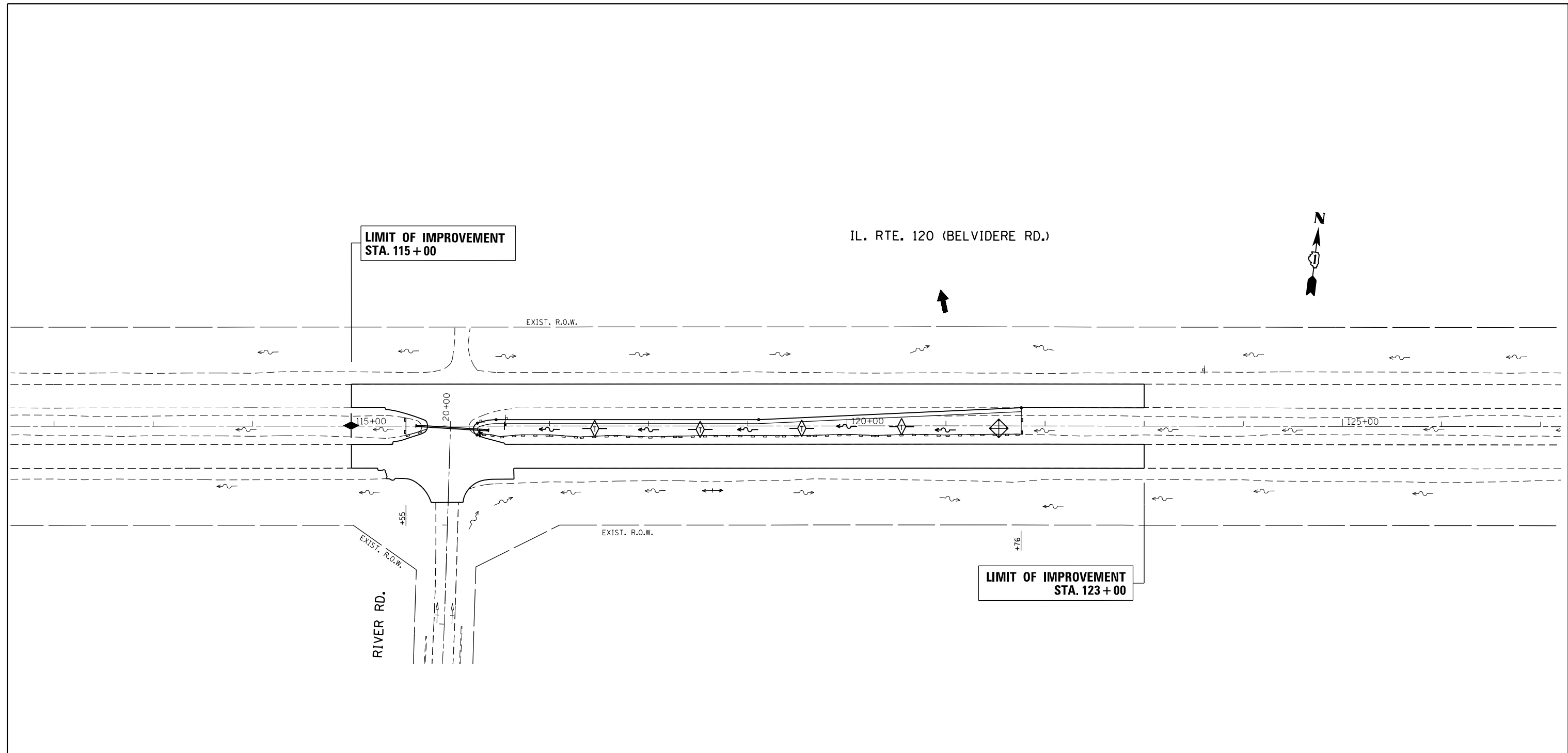
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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/29/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**





**EROSION CONTROL PLAN
ILLINOIS ROUTE 120 AT ALMOND RD.**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2011-220-N	LAKE	41	16
CONTRACT NO. 60R59			ILLINOIS FED. AID PROJECT	



LEGEND

-  PERIMETER EROSION BARRIER
-  TEMPORARY DITCH CHECKS
-  INLET FILTERS
-  AGGREGATE DITCH CHECK (PERMANENT)

FILE NAME =	USER NAME = pencepl	DESIGNED -	REVISED -
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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/29/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN
ILLINOIS ROUTE 120 AT RIVER RD.**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2011-220-N	LAKE	41	17
CONTRACT NO. 60R59				
ILLINOIS FED. AID PROJECT				

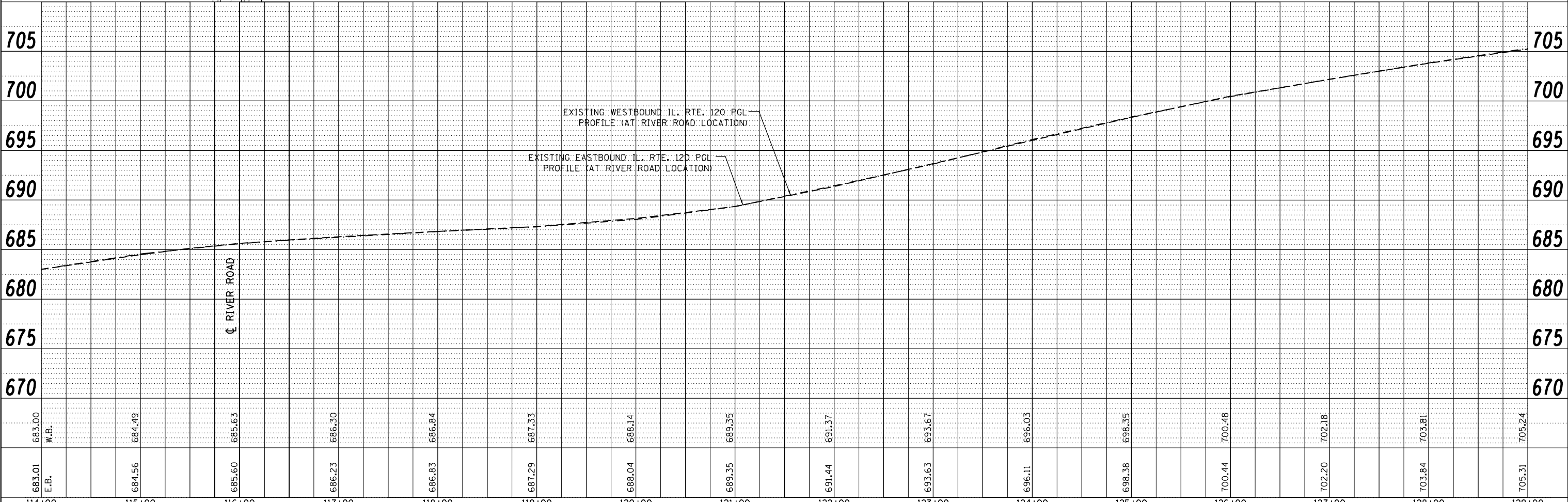
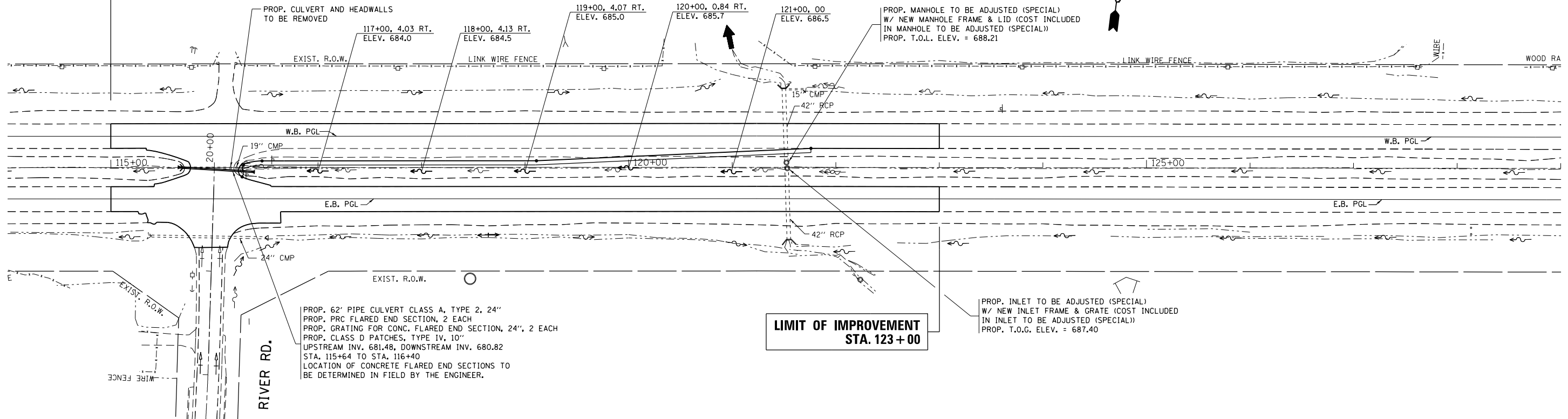
PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHKD		
	NO.		

IL. RTE. 120 (BELVIDERE RD.)

LIMIT OF IMPROVEMENT
STA. 115+00

LIMIT OF IMPROVEMENT
STA. 123+00

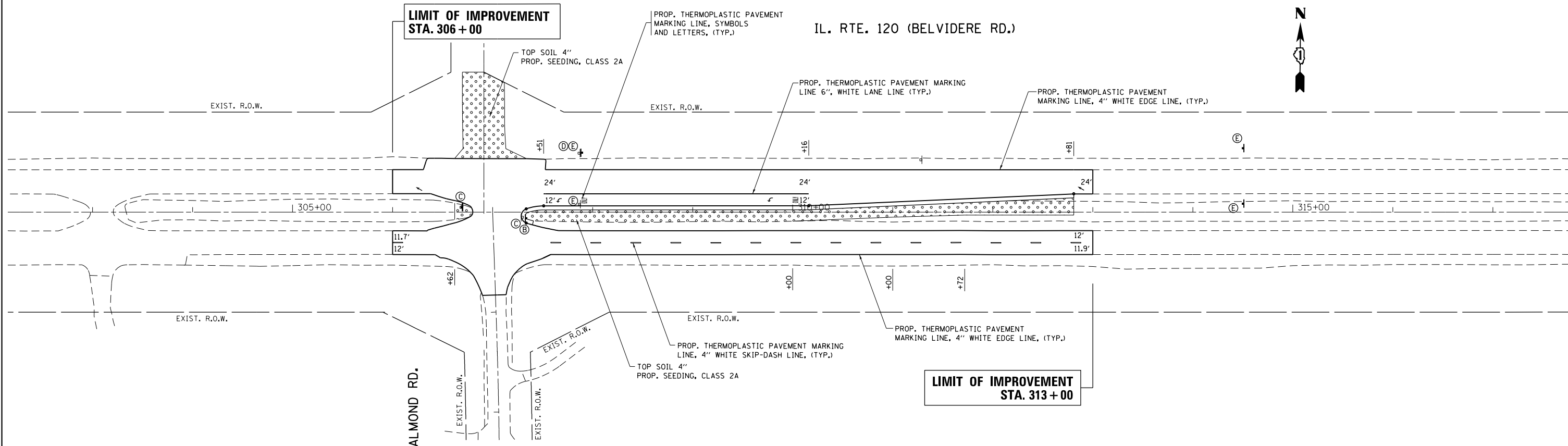


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c:\pwork\pwork\pencepl\d0187990\F170309.sht-dr-ain.dgn		DRAWN -	REVISED -	DRAINAGE AND UTILITY PLAN AND PROFILE				342	2011-220-N	LAKE	41	19
PLOT SCALE = 100.0001' / in.		CHECKED -	REVISED -	ILLINOIS ROUTE 120 AT RIVER ROAD				CONTRACT NO. 60R59				
PLOT DATE = 6/29/2012		DATE -	REVISED -	SCALE: 1"=50'				SHEET NO.	OF SHEETS	STA.	TO STA.	
ILLINOIS FED. AID PROJECT												

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

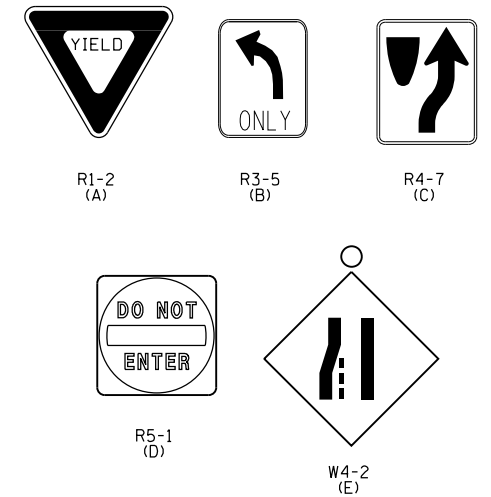
EXISTING AND PROPOSED
DRAINAGE AND UTILITY PLAN AND PROFILE
ILLINOIS ROUTE 120 AT RIVER ROAD

HANLON RD.



SIGN SCHEDULE											
EXISTING (TO BE REMOVED)				PROPOSED				METAL POST TYPE			
SIGN	STATION	OFFSET	TYPE	SIGN	STATION*	OFFSET*	TYPE	SIGN DEPTH	SIGN WIDTH	SIGN HEIGHT	POST TYPE
C	306+69	4.8 Lt	R4-7	C	306+70	5.0 Lt	R4-7	30"	24"	8.0'	B
C	307+30	4.5 Rt	R4-7	C	307+35	5.5 Rt	R4-7	30"	24"	7.5'	B
D	307+87	60.0 Lt	R5-1	D	307+90	60.0 Lt	R5-1	36"	36"	9.0'	B(2)
E			E	314+50	64.0 Lt	W4-2	36"	36"	8.5'	**	
E	307+88	8.8 Lt	W4-2	E	314+50	8.0 Lt	W4-2	36"	36"	8.5'	**

* FINAL LOCATION ESTABLISHED IN FIELD PER RE DIRECTION.
 ** NEW 4"x6" WOOD POST TO BE INSTALLED AND IS INCLUDED IN THE COST OF SOLAR-POWERED FLASHER/POST MOUNTED (YELLOW LED DISPLAY)

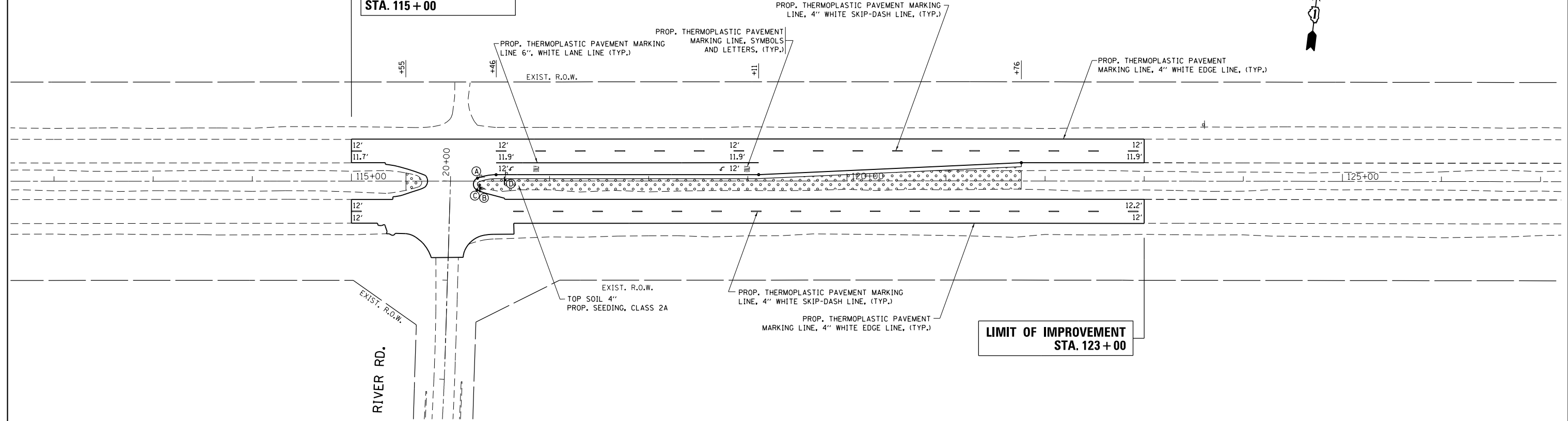


PAVEMENT MARKING NOTES:
 ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (OF THE EXTRUDED TYPE) AND SHOULD BE PLACED IN ACCORDANCE WITH "DISTRICTONE TYPICAL PAVEMENT MARKINGS DETAIL", (TC-13)
 ALL RAISED REFLECTIVE PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKER DETAIL", (TC-11)

LANDSCAPING NOTES:
 1. TOPSOIL, 4" SHALL BE PROVIDED IN ALL AREAS OF SEEDING.
 2. APPLY NITROGEN FERTILIZER NUTRIENT AND POTASSIUM FERTILIZER NUTRIENT TO ALL SEEDING AREAS.

**LIMIT OF IMPROVEMENT
STA. 115 + 00**

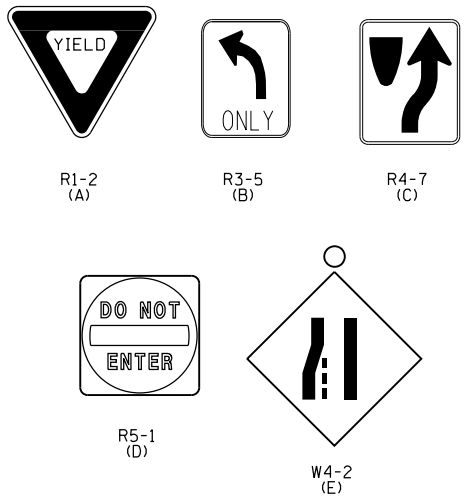
IL. RTE. 120 (BELVIDERE RD.)



**LIMIT OF IMPROVEMENT
STA. 123 + 00**

SIGN SCHEDULE											
EXISTING (TO BE REMOVED)				PROPOSED				METAL POST TYPE			
SIGN	STATION	OFFSET	TYPE	SIGN	STATION*	OFFSET*	TYPE	SIGN DEPTH	SIGN WIDTH	SIGN HEIGHT	POST TYPE
A	116+30	5.0 Lt	R1-2								
C	116+31	7.1 Rt	R4-7	C	116+30	7.0 Rt	R4-7	30"	24"	7.5'	B
				B			R3-5	30"	24"		
D	116+56	7.6 Lt	R5-1	D	116+55	0.5 Lt	R5-1	36"	36"	8.0'	A(2)

*FINAL LOCATION ESTABLISHED IN FIELD PER RE DIRECTION.



PAVEMENT MARKING NOTES:
 ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (OF THE EXTRUDED TYPE) AND SHOULD BE PLACED IN ACCORDANCE WITH "DISTRICT ONE TYPICAL PAVEMENT MARKINGS DETAIL", (TC-13)
 ALL RAISED REFLECTIVE PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKER DETAIL", (TC-11)

LANDSCAPING NOTES:
 1. TOPSOIL, 4" SHALL BE PROVIDED IN ALL AREAS OF SEEDING.
 2. APPLY NITROGEN FERTILIZER NUTRIENT AND POTASSIUM FERTILIZER NUTRIENT TO ALL SEEDING AREAS.

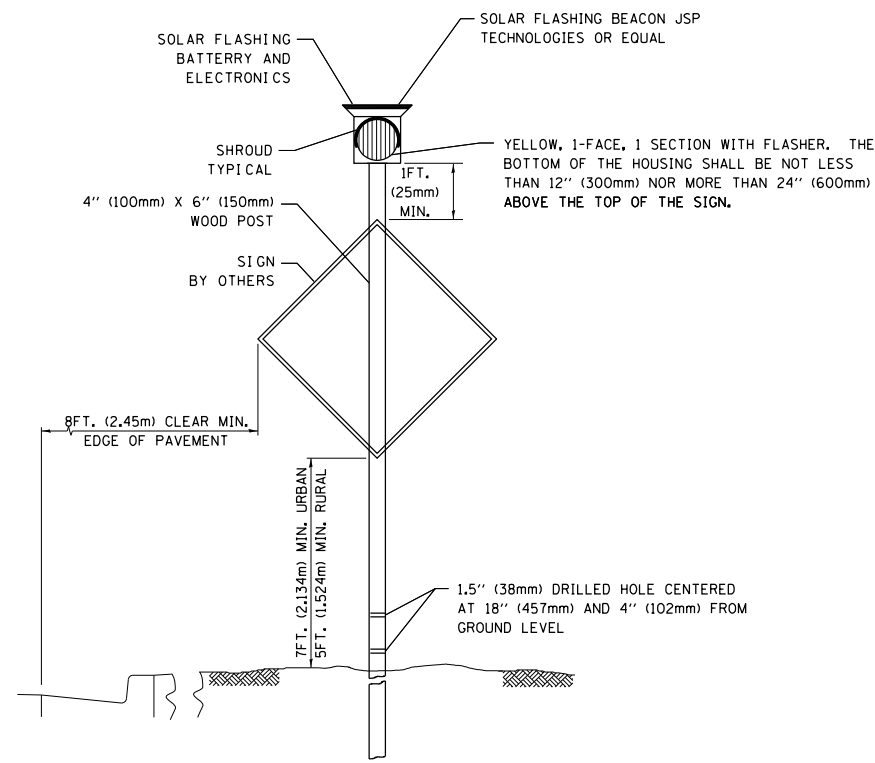
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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/29/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING, SIGNING AND LANDSCAPE PLAN
ILLINOIS ROUTE 120 AT RIVER RD.**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2011-220-N	LAKE	41	21
CONTRACT NO. 60R59				
ILLINOIS FED. AID PROJECT				



PROPOSED SOLAR FLASHER (24-HR)

N. T. S

NOTE FOR FLASHER(S):

1) PRIOR TO INITIATING OPERATION OF ANY FLASHER LOCATION, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT 48 HRS IN ADVANCE, THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATION ENGINEER" AT (847) 705-4139, ILLINOIS DEPARTMENT OF TRANSPORTATION.

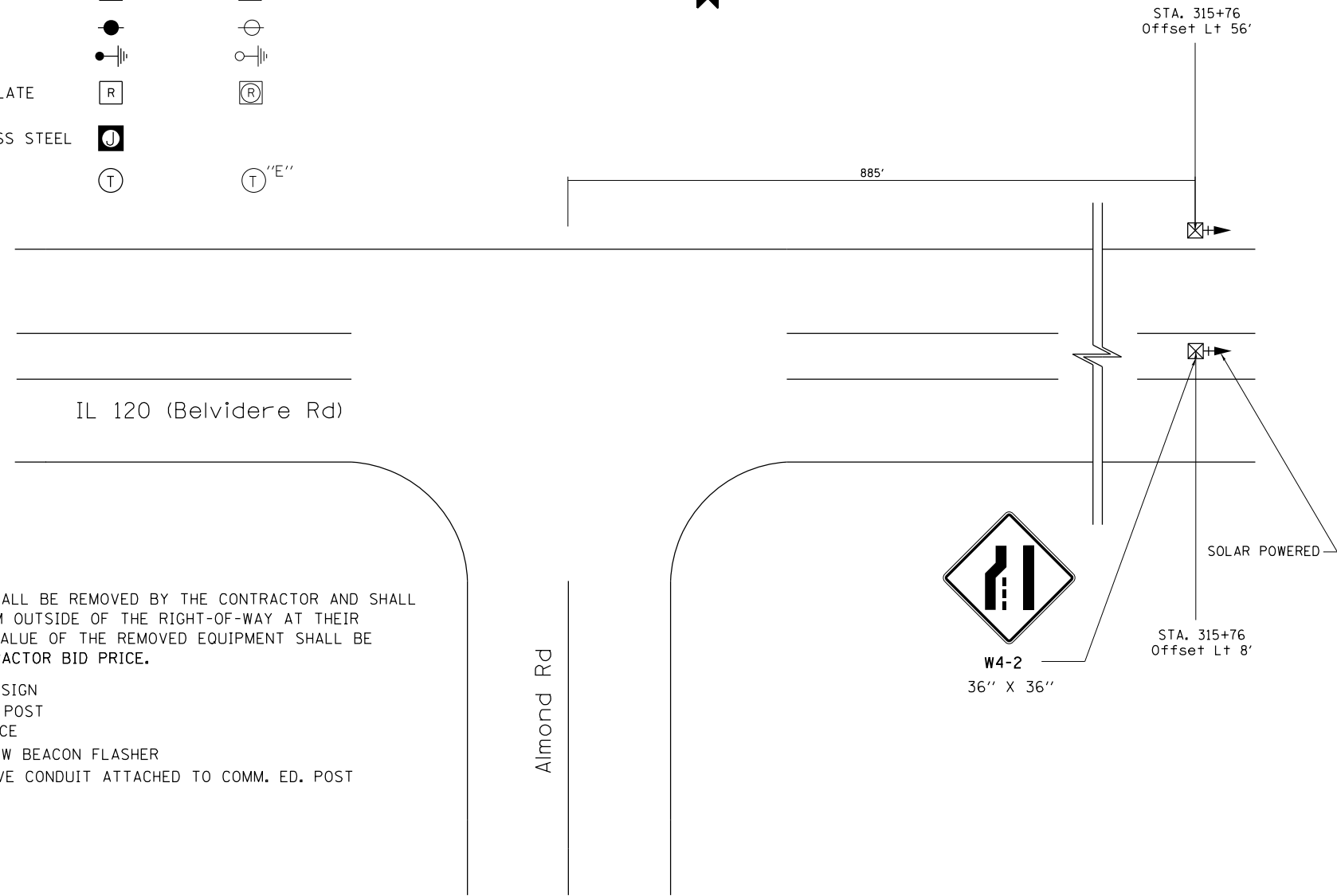
2) PRIOR TO REMOVAL OF THE SERVICE, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT COMM. ED. TO DISCONNECT THE SERVICE.

FLASHER SIGNAL LEGEND

	PROPOSED	EXISTING
SERVICE INSTALLATION	■	□
12" SIGNAL HEAD (LED)	▶	▷
WOOD POST, 4" x 6"	⊠	⊠ "E"
CONDUIT IN GROUND OR UNIT DUCT IN TRENCH	---	====
HANDHOLE	◻	◻
HEAVY-DUTY HANDHOLE	H	H "E"
ELECTRICAL POLE	●	○
GROUND ROD	⚡	⚡
SIGNAL FACE WITH BACKPLATE	R	R
JUNCTION BOX - STAINLESS STEEL	ⓐ	ⓐ
TRANSFORMER	T	T "E"

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE OF THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACTOR BID PRICE.

- 2 EACH W4-2 SIGN
- 2 EACH WOOD POST
- 1 EACH SERVICE
- 2 EACH YELLOW BEACON FLASHER
- 12 FOOT REMOVE CONDUIT ATTACHED TO COMM. ED. POST

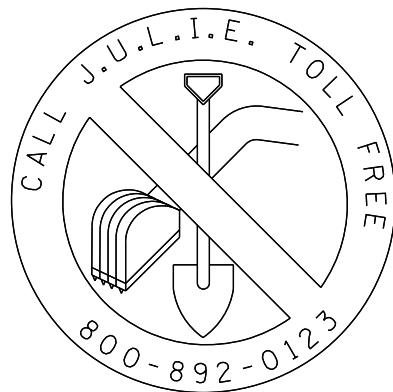


PLAN - TRAFFIC SIGNAL FLASHER

SUMMARY OF QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
X0325936	SOLAR-POWERED FLASHER/POST MOUNTED (YELLOW LED DISPLAY)	EACH	2
89502400	REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE	EACH	1

Illinois Department of Transportation
 Division of Highways / District 1
 201 West Center Court
 Schaumburg, Illinois 60196-1096

ENERGY SUPPLY: SOLAR POWER



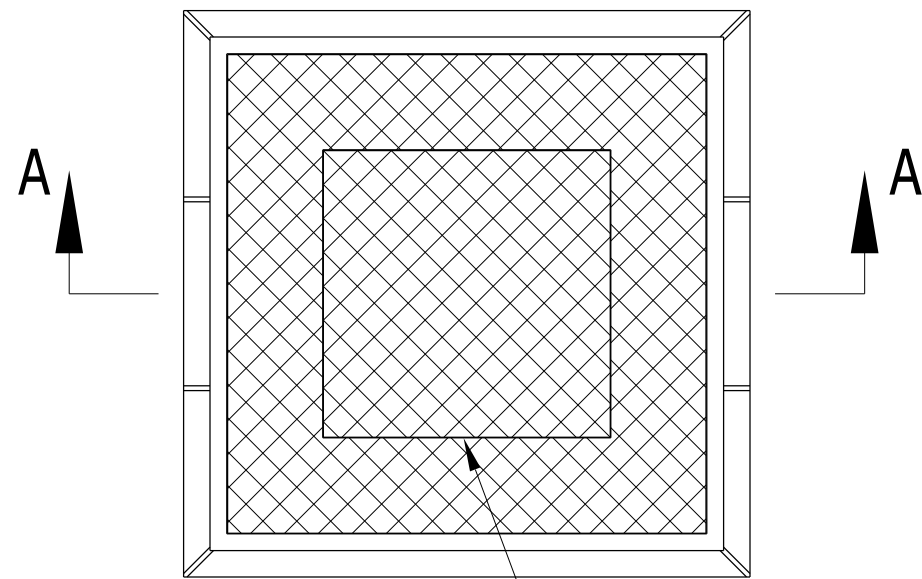
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	PLOT DATE = 6/29/2012	DATE - 06/27/2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FLASHER INSTALLATION PLAN
 ILLINOIS ROUTE 120 AT ALMOND RD.**

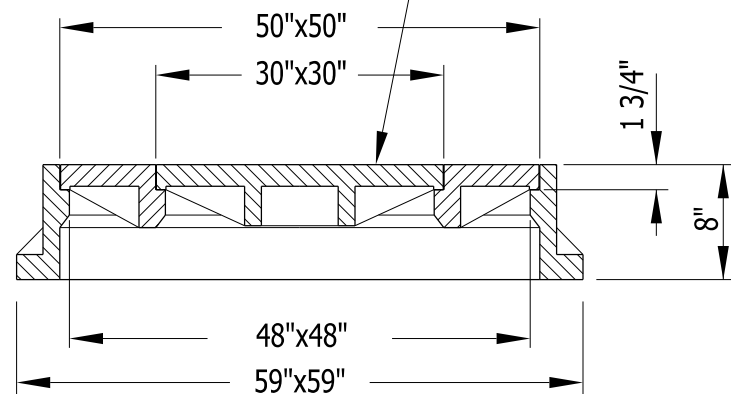
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60R59				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PLAN

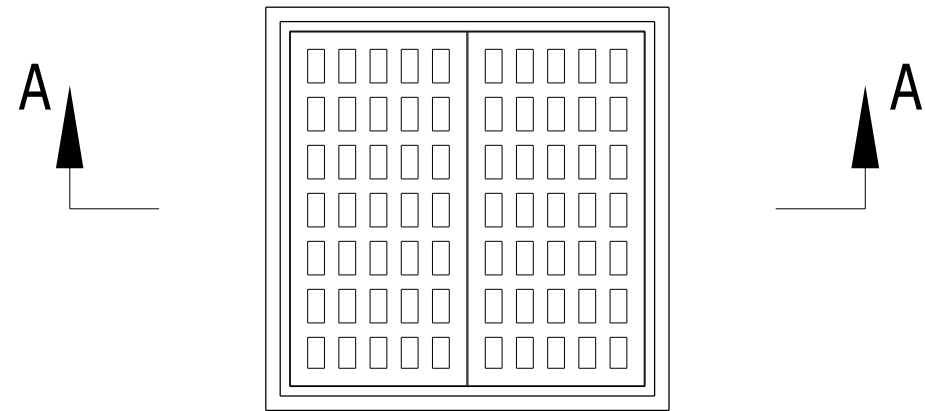
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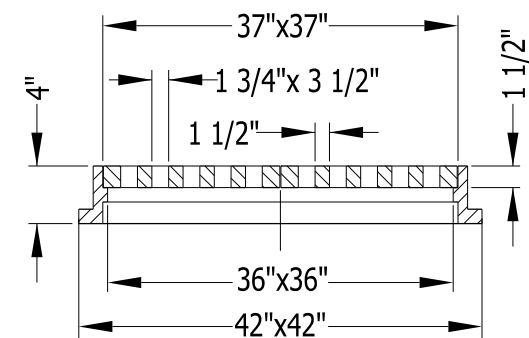
SECTION A-A

MANHOLE FRAME AND LID DETAIL

NOT TO SCALE



PLAN



SECTION A-A

INLET FRAME AND GRATE DETAIL

NOT TO SCALE

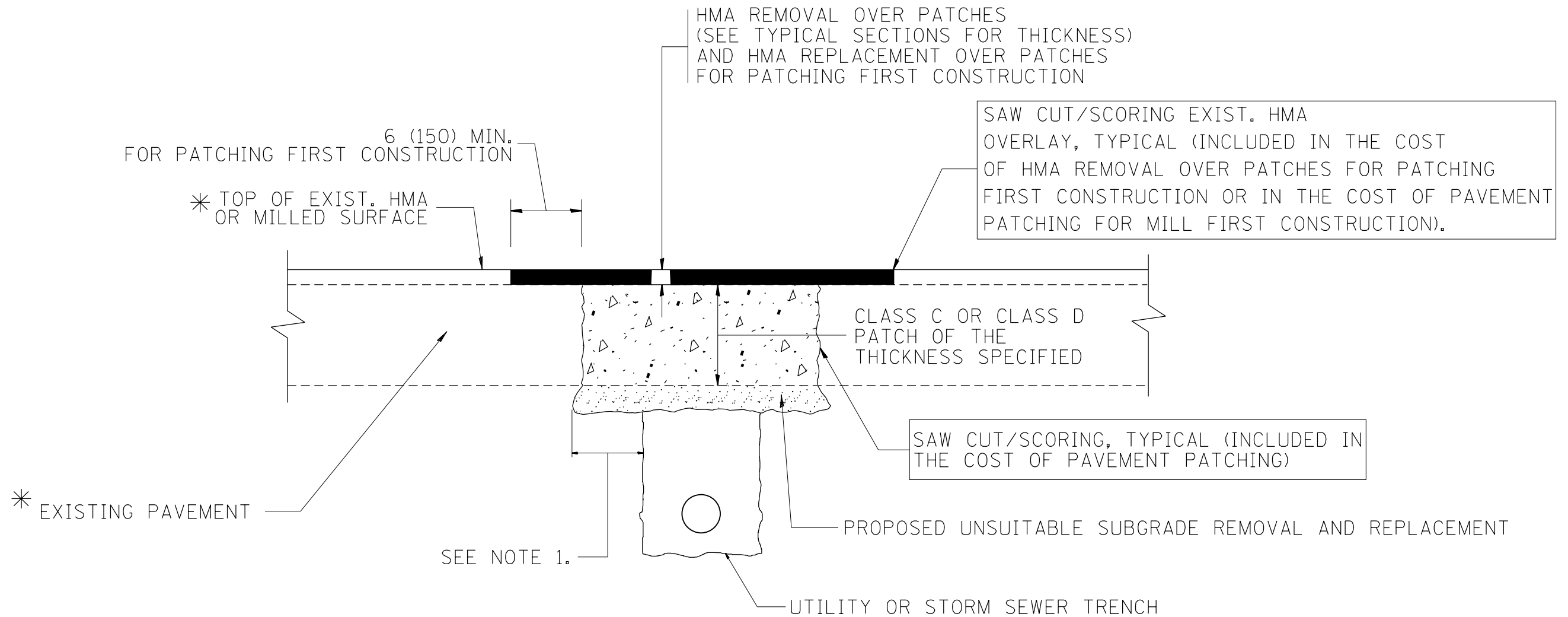
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		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS

FRAME AND GRATE AND FRAME AND LID DETAIL
ILLINOIS ROUTE 120 AT ALMOND RD. AND RIVER RD.

SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2011-220-N	LAKE	41	23
CONTRACT NO. 60R59			ILLINOIS FED. AID PROJECT	



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

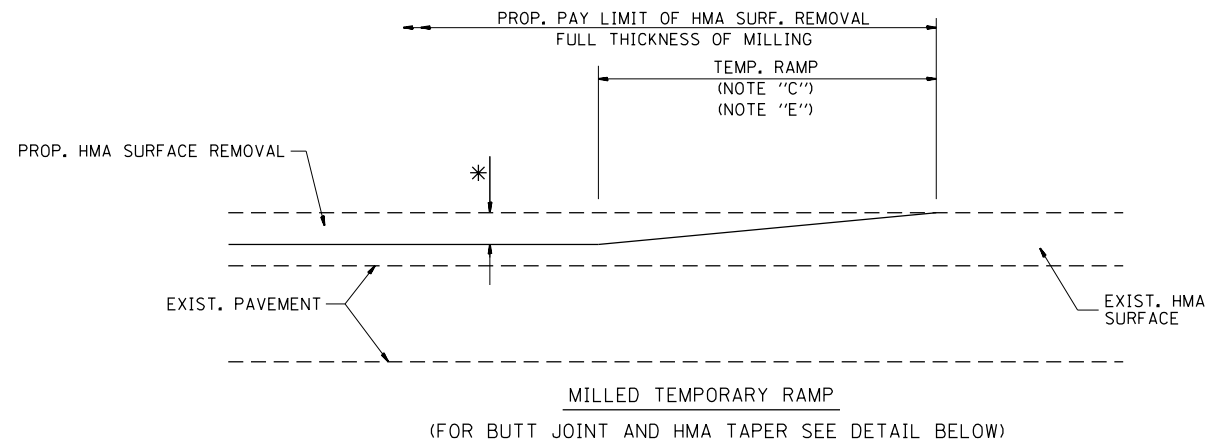
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

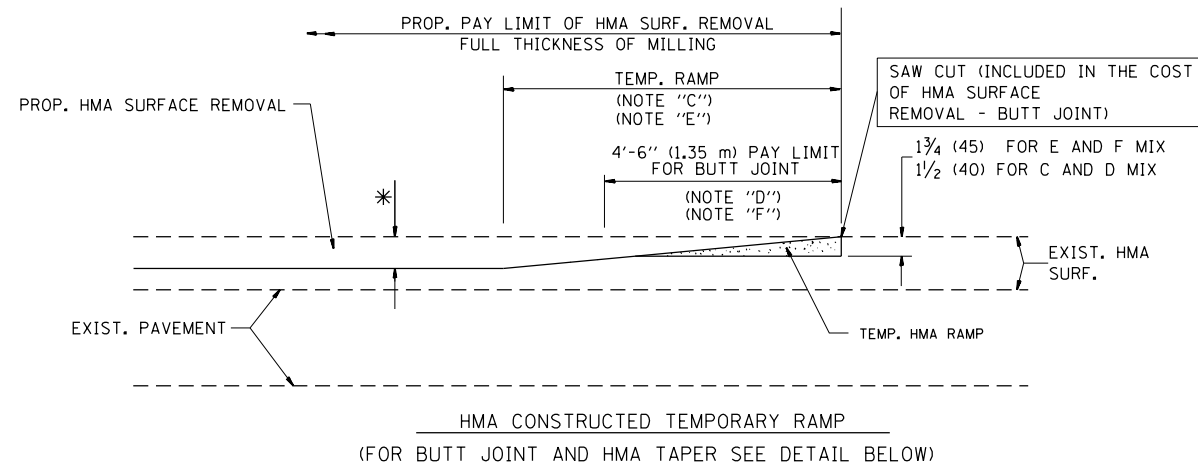
1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

FILE NAME =	USER NAME = pencepl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 6/29/2012	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



OPTION 1

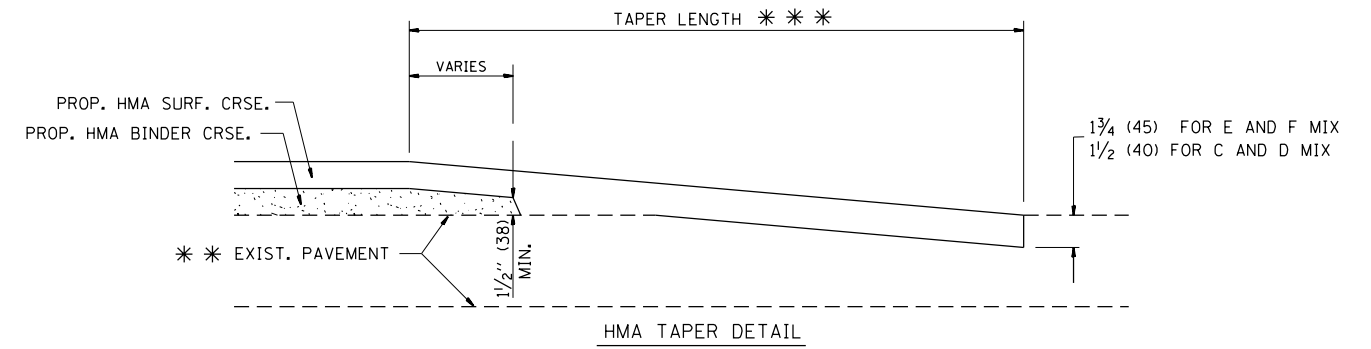


OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

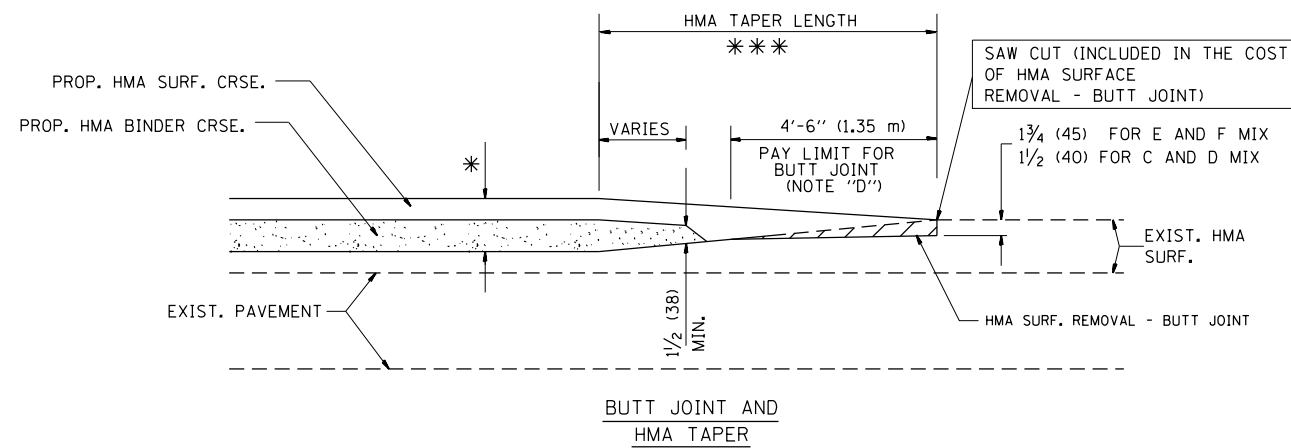
NOTES

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

BASIS OF PAYMENT:

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

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



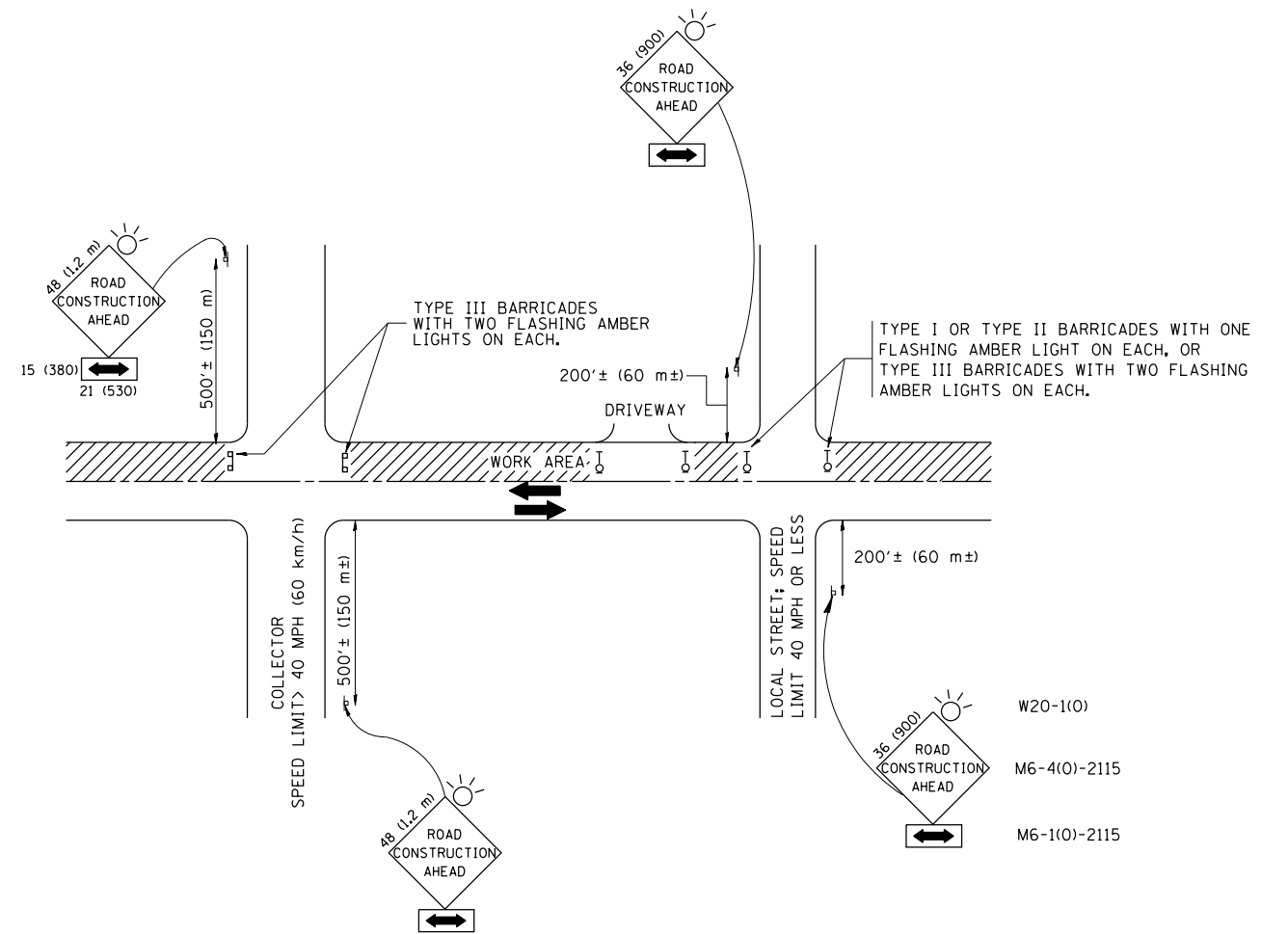
TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

FILE NAME =	USER NAME = pencepl	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
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	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 6/29/2012	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINT AND HMA TAPER DETAILS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2011-220-N	LAKE	41	25
BD400-05 BD32		CONTRACT NO.	60R59	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

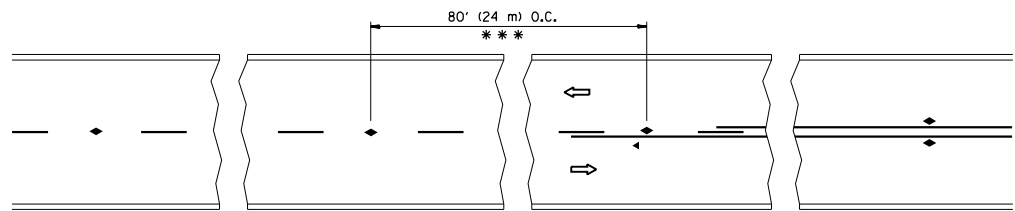
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	PLOT DATE = 6/29/2012	DATE - 06-89	REVISED - T. RAMMACH 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

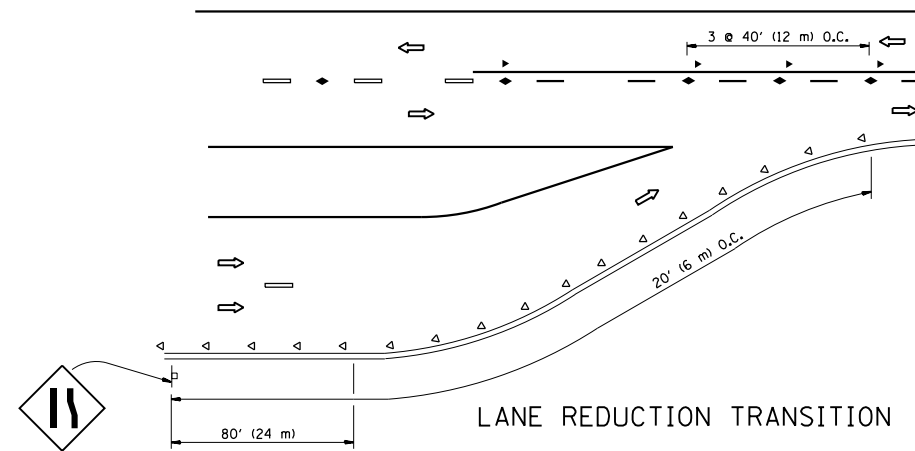
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 60R59	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

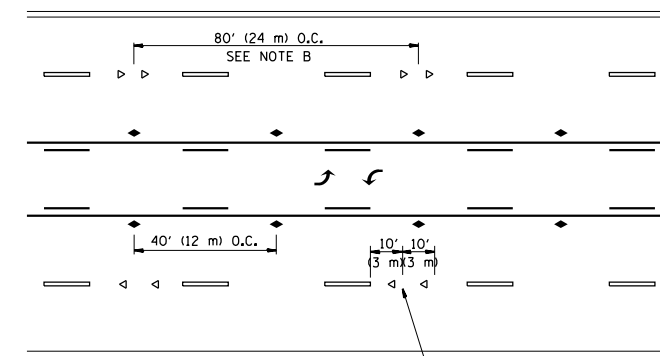


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

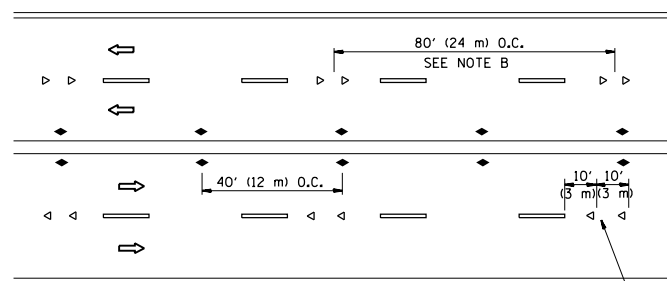
TWO-LANE/TWO-WAY



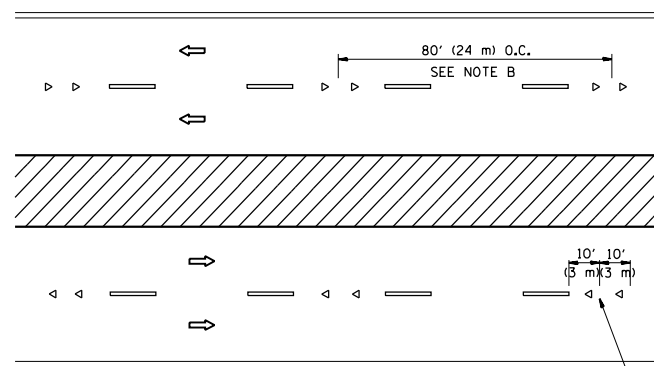
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

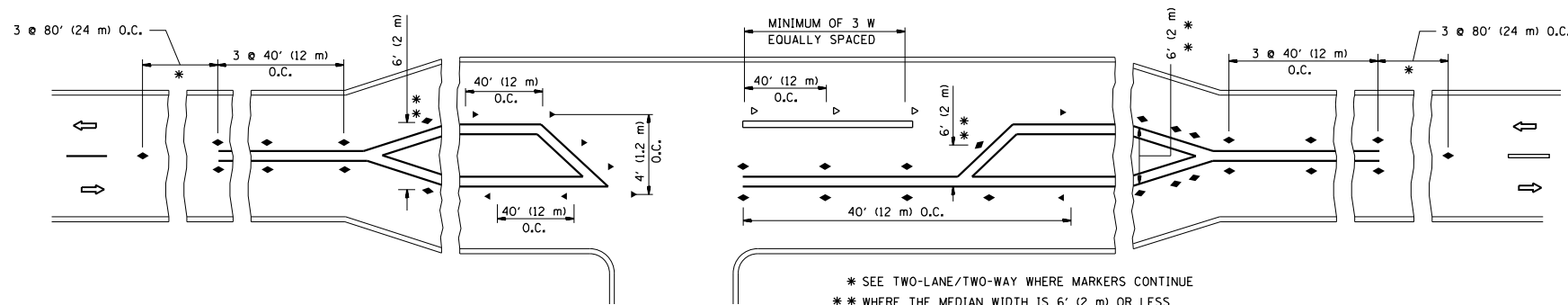
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

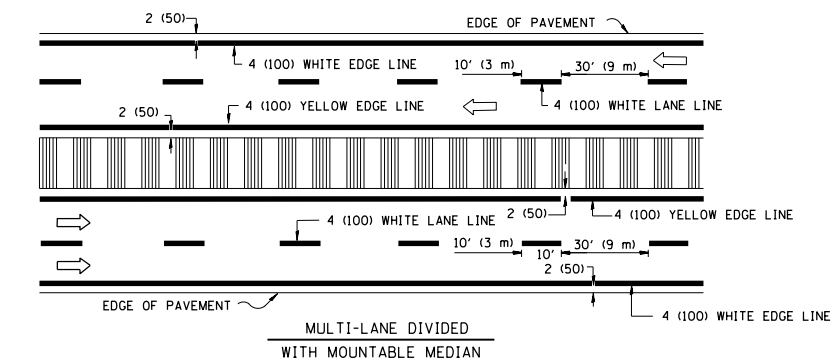
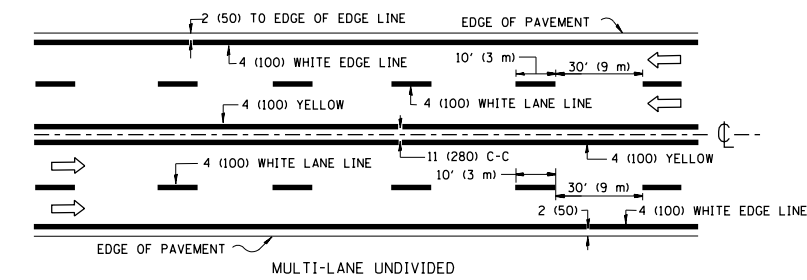
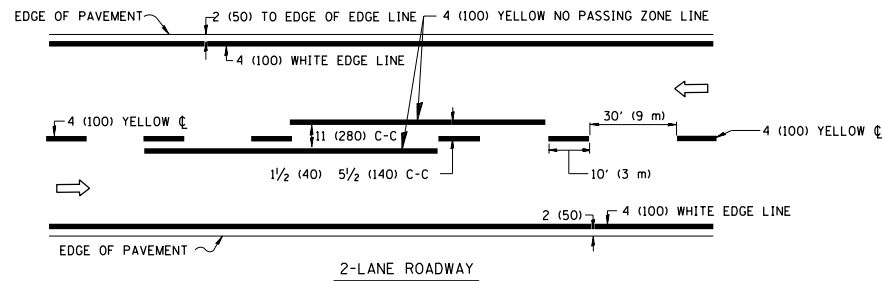
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	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 6/29/2012	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

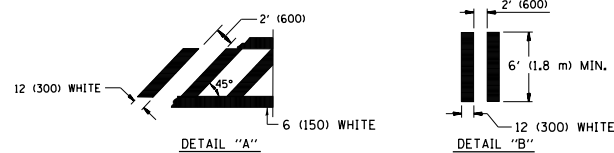
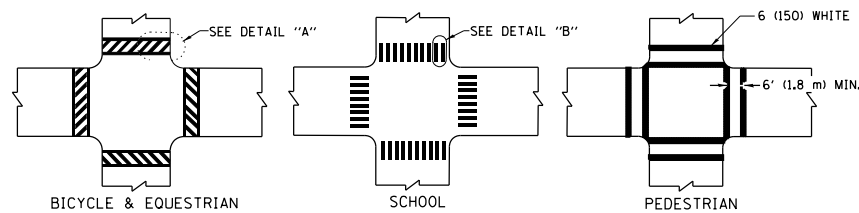
TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2011-220-N	LAKE	41	27
TC-11		CONTRACT NO. 60R59		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

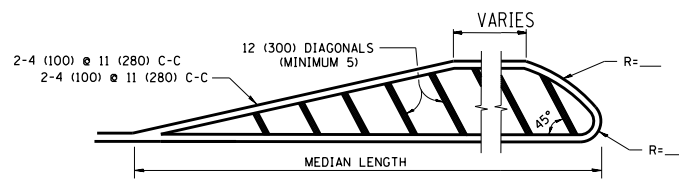
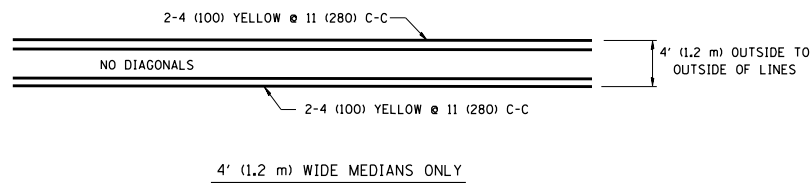


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

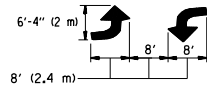
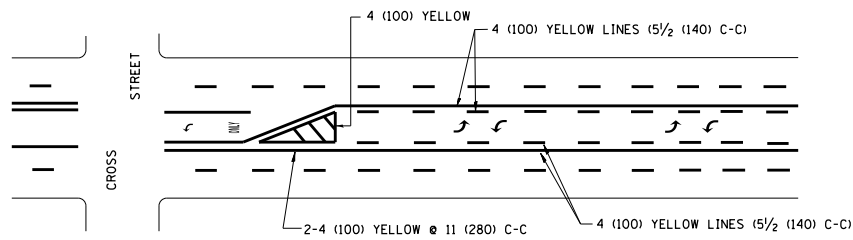


TYPICAL CROSSWALK MARKING



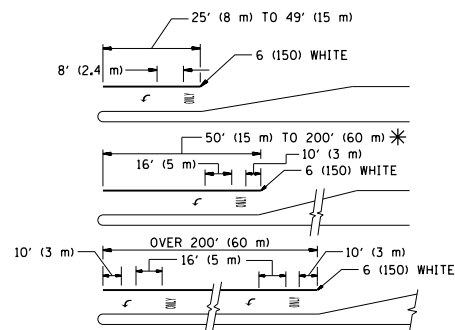
DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

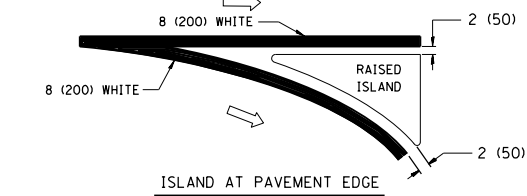
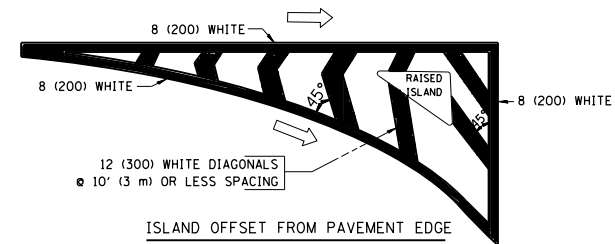


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION	4 (100)	SOLID	YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE
NO PASSING ZONE LINES: FOR BOTH DIRECTIONS	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE. SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE. SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

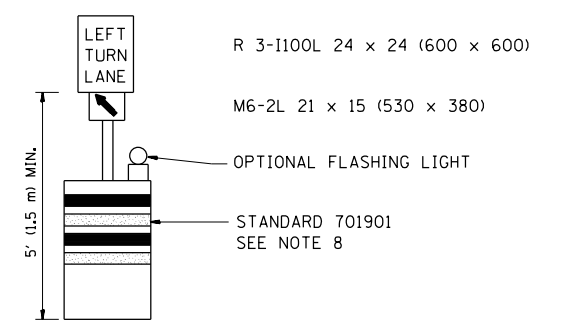
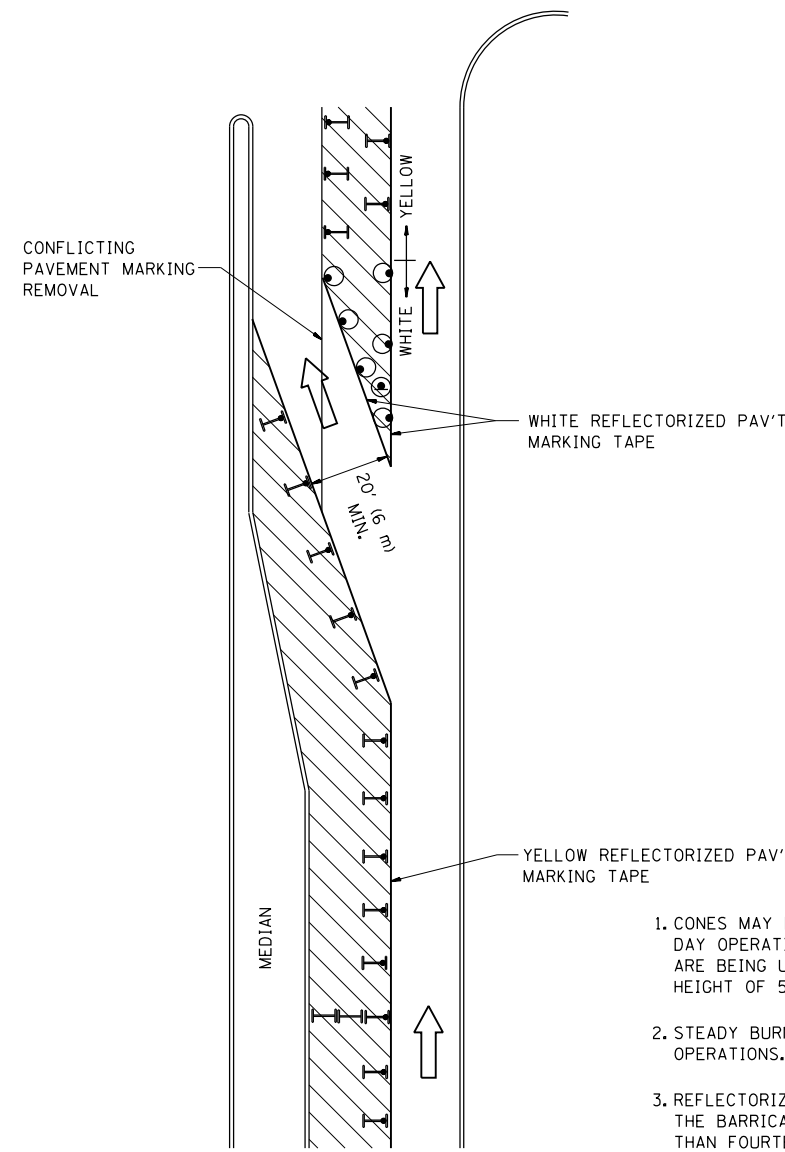
All dimensions are in inches (millimeters) unless otherwise shown.

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	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -
	PLOT DATE = 6/29/2012	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE			
TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2011-220-N	LAKE	41	28
TC-13		CONTRACT NO.	60R59	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

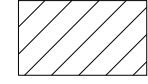







GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 PREQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

LEGEND

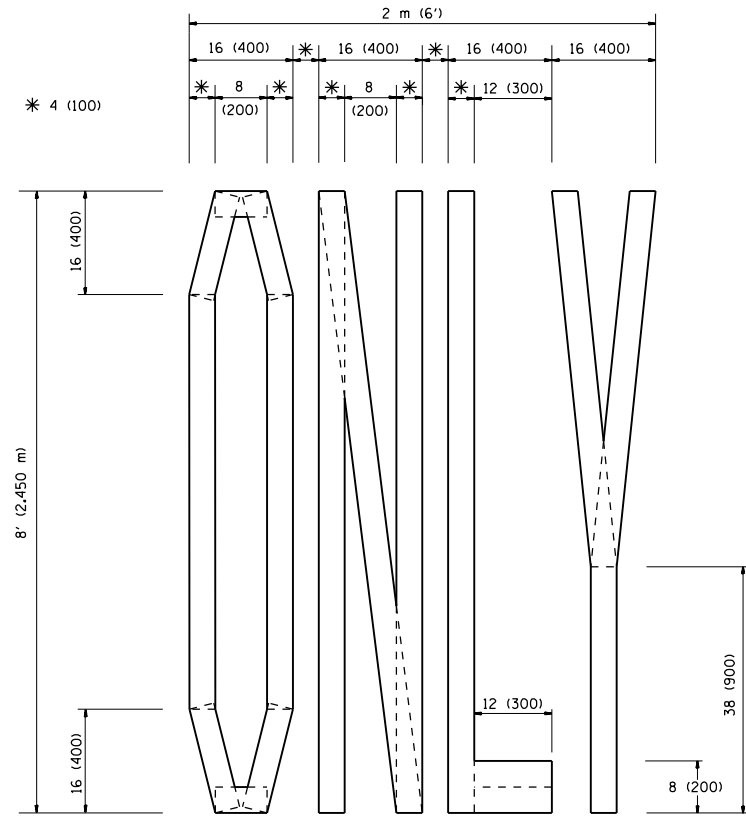
-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

FILE NAME =	USER NAME = pencepl	REVISED -T, RAMMACHER 09-08-94	REVISED - R, BORO 09-14-09
et:\pw\work\p\dot\pencepl\d0187967\Dist\std.dgn		REVISED - A. HOUSEH 11-07-95	REVISED -
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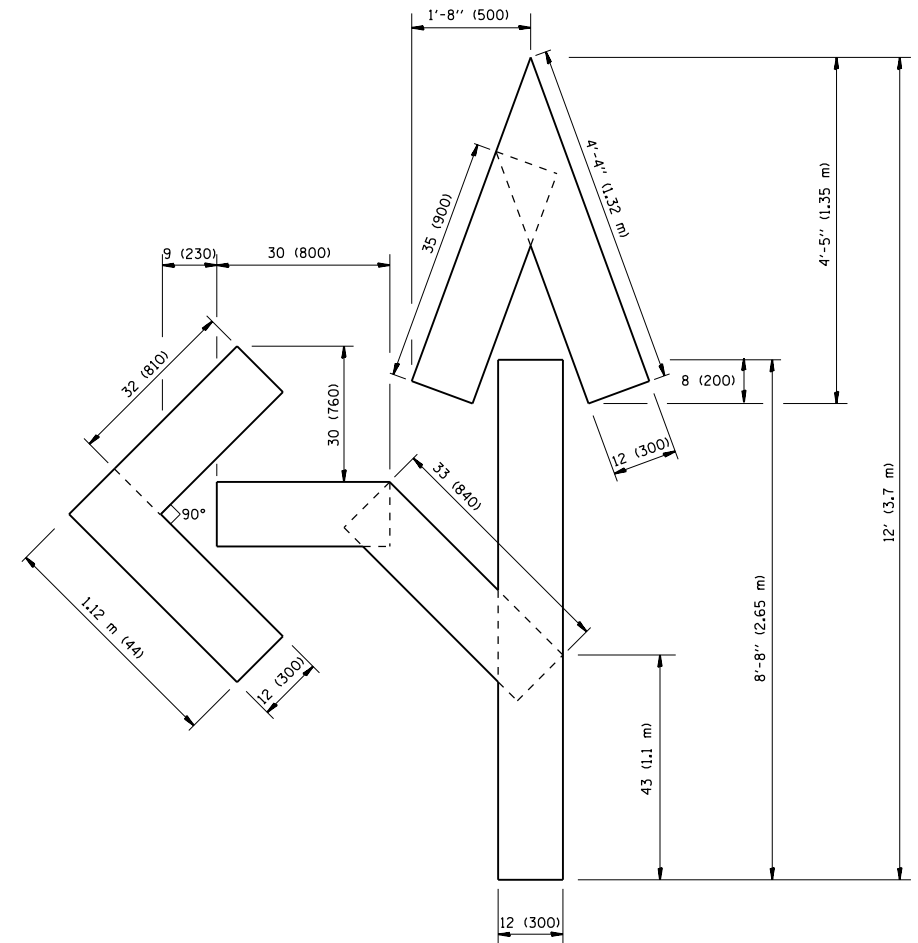
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

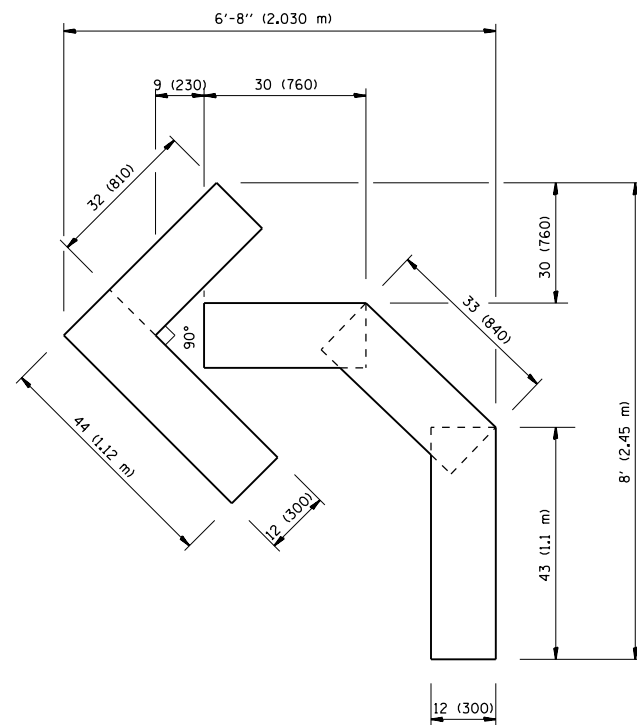
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2011-220-N	LAKE	41	29
TC-14		CONTRACT NO.	60R59	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



QUANTITY
 4 (100) LINE = 64.1 ft. (19.7 m)
 21.1 sq. ft. (1.97 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.39 sq. m)

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

FILE NAME =	USER NAME = pencepl	DESIGNED -	REVISED -T. RAMMACHER 06-05-96
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	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
	PLOT DATE = 6/29/2012	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

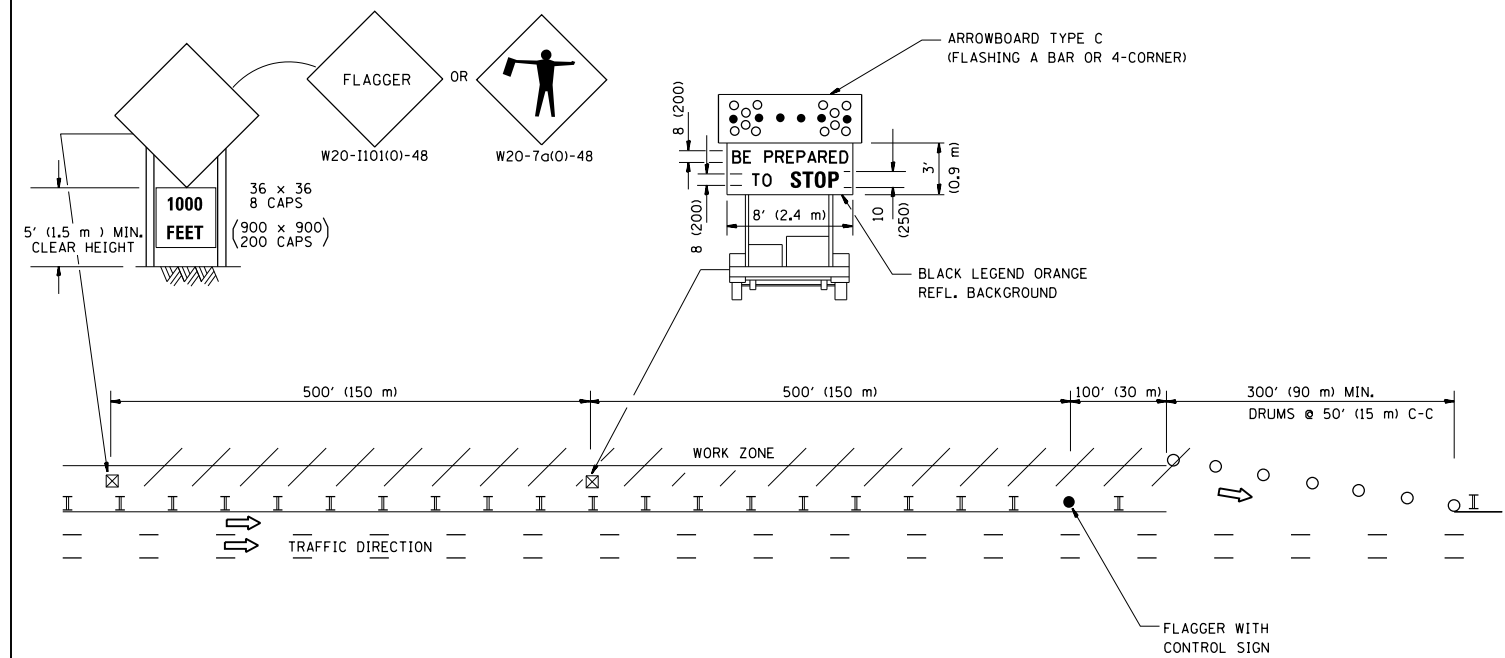
PAVEMENT MARKING LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

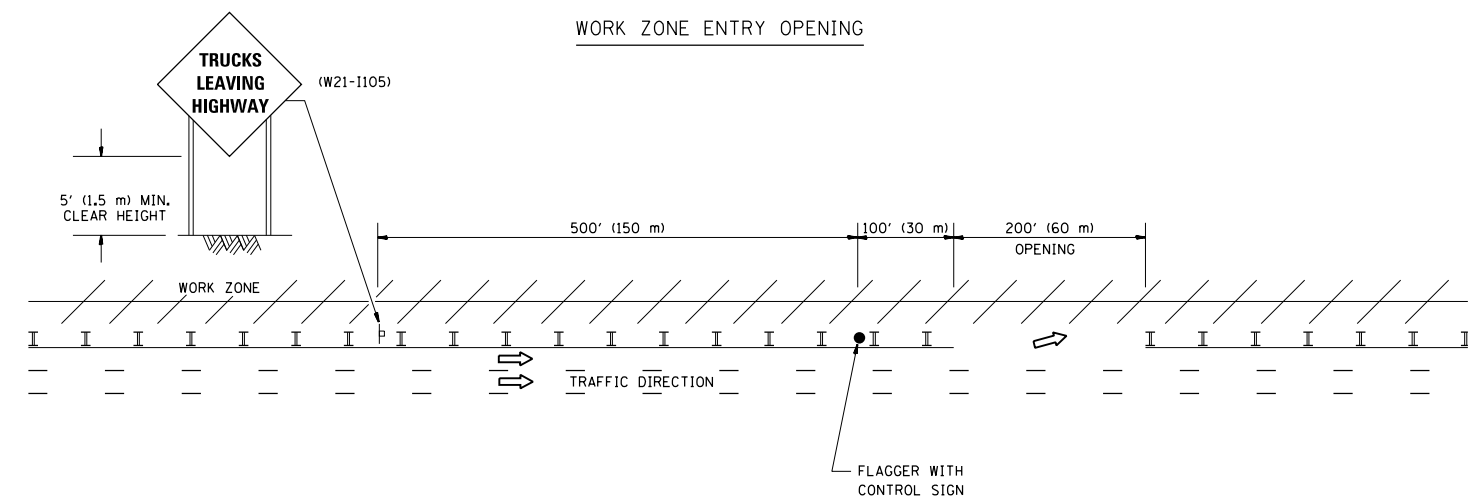
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342	2011-220-N	LAKE	41	30
TC-16			CONTRACT NO. 60R59	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. THE ARROWBOARD, THE FLAGGER AHEAD SIGN AND THE TRUCKS LEAVING HIGHWAY SIGN SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE EXIT OPENINGS SHOULD BE A MINIMUM OF ONE HALF MILE APART.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

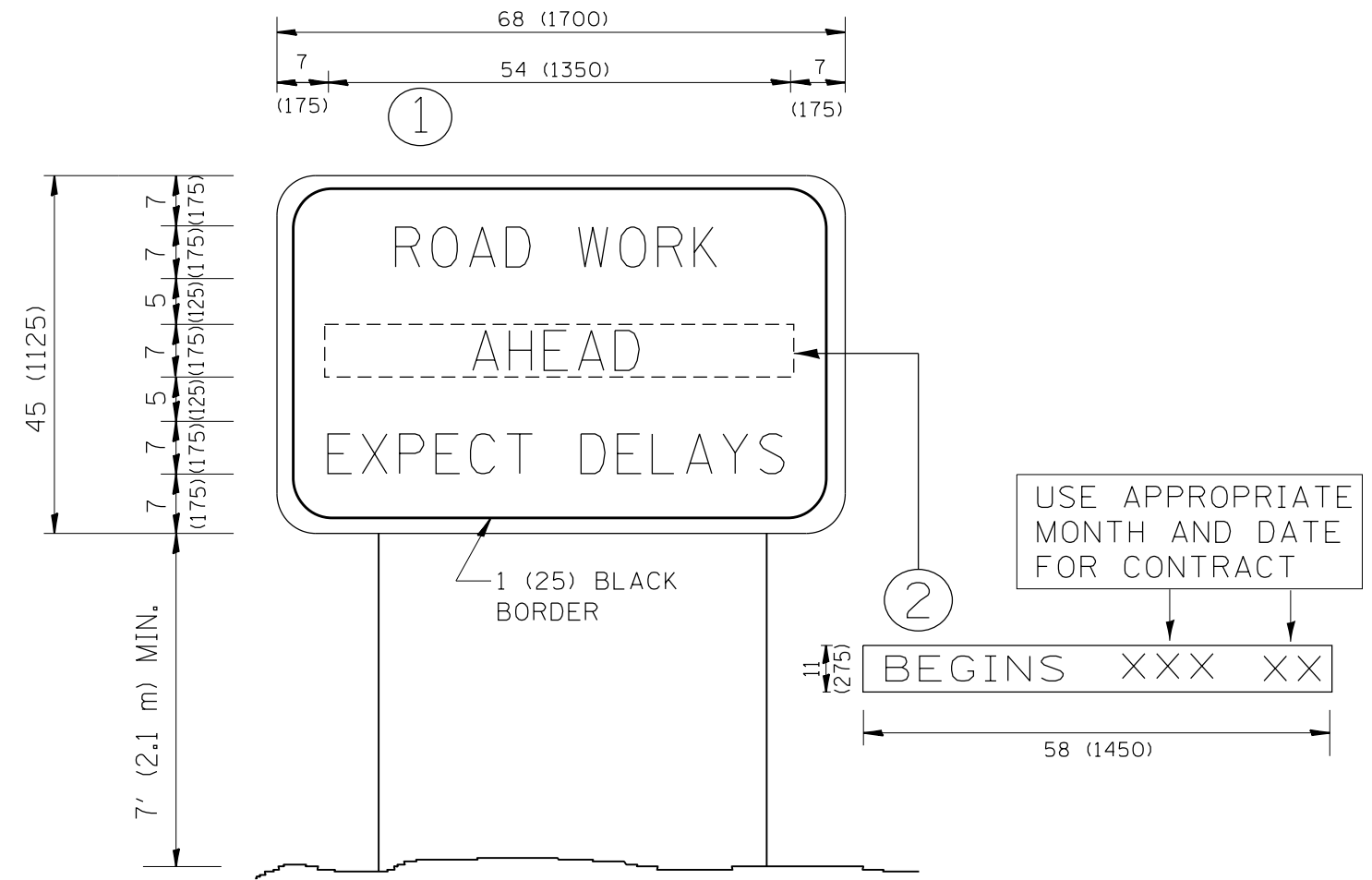
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	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - S.P.B. 01-07
	PLOT DATE = 6/29/2012	DATE -	REVISED - S.P.B. 12-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING FOR FLAGGING OPERATIONS
AT WORK ZONE OPENINGS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2011-220-N	LAKE	41	31
TC-18			CONTRACT NO. 60R59	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

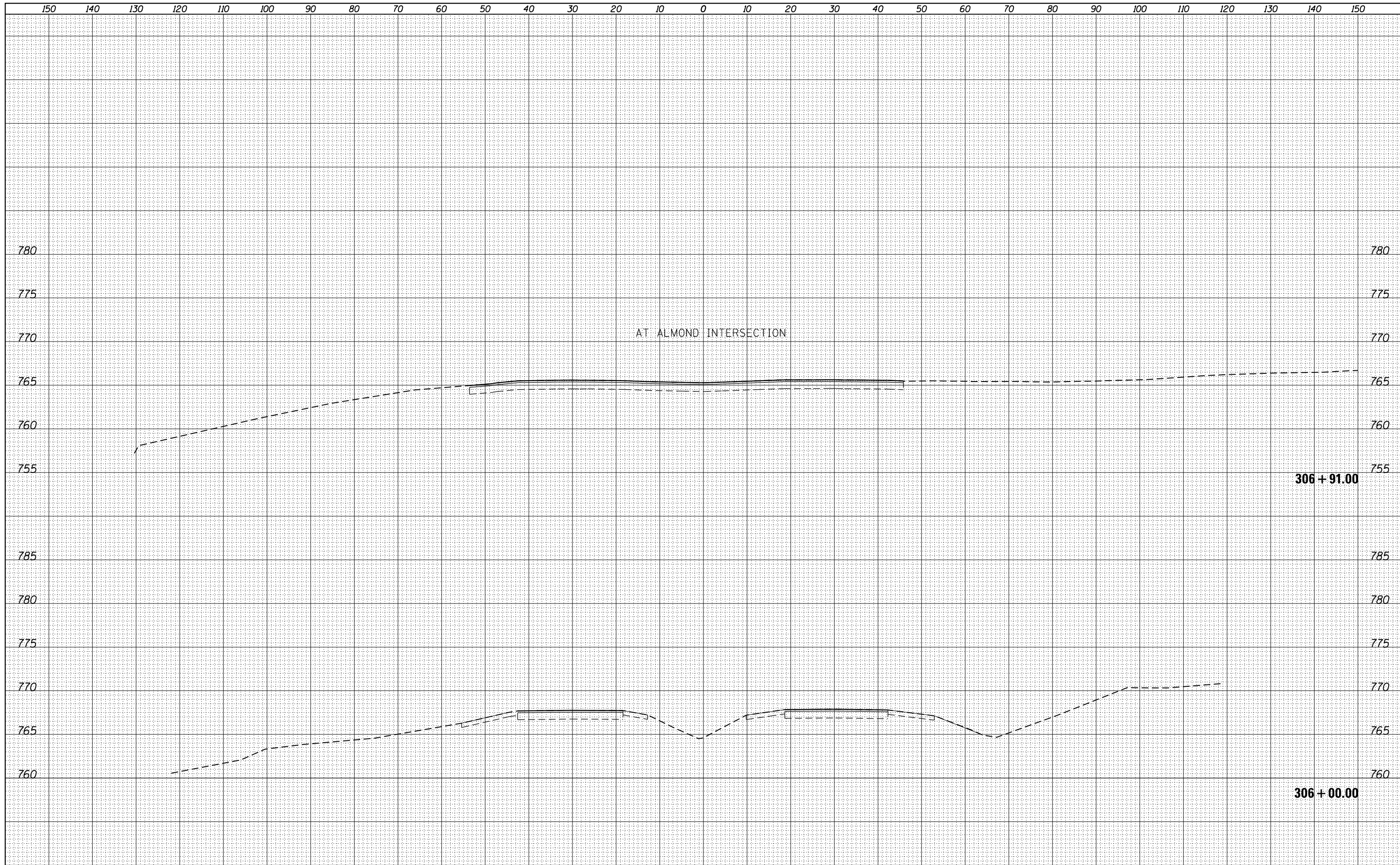
1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.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

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

FILE NAME =	USER NAME = pencepl	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CHECKED -	REVISED - T. RAMMACHER 02-02-99		TC-22			CONTRACT NO. 60R59				
		DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			
		PLOT SCALE = 100.0000' / in.										
		PLOT DATE = 6/29/2012										

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

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



FILE NAME =	USER NAME = pencep1	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

PLOT SCALE = 20.0000' / in.	
PLOT DATE = 6/29/2012	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

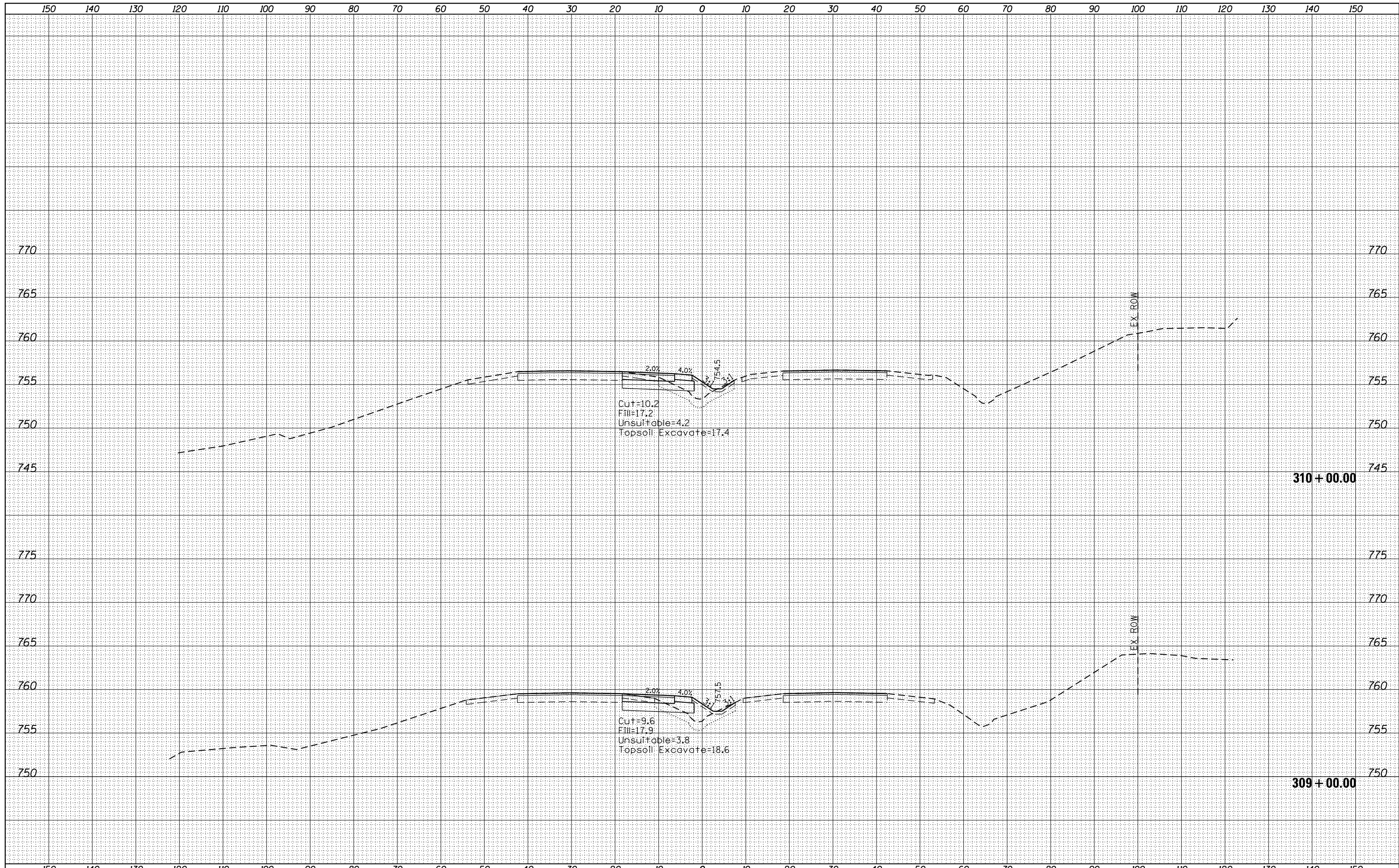
EXISTING AND PROPOSED CROSS SECTIONS
ILLINOIS RTE. 120 AT ALMOND RD.

SCALE: SHEET NO. OF SHEETS STA. 306+00.00 TO STA. 306+91.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2011-220-N	LAKE	41	33
CONTRACT NO. 60R59			ILLINOIS FED. AID PROJECT	

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

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



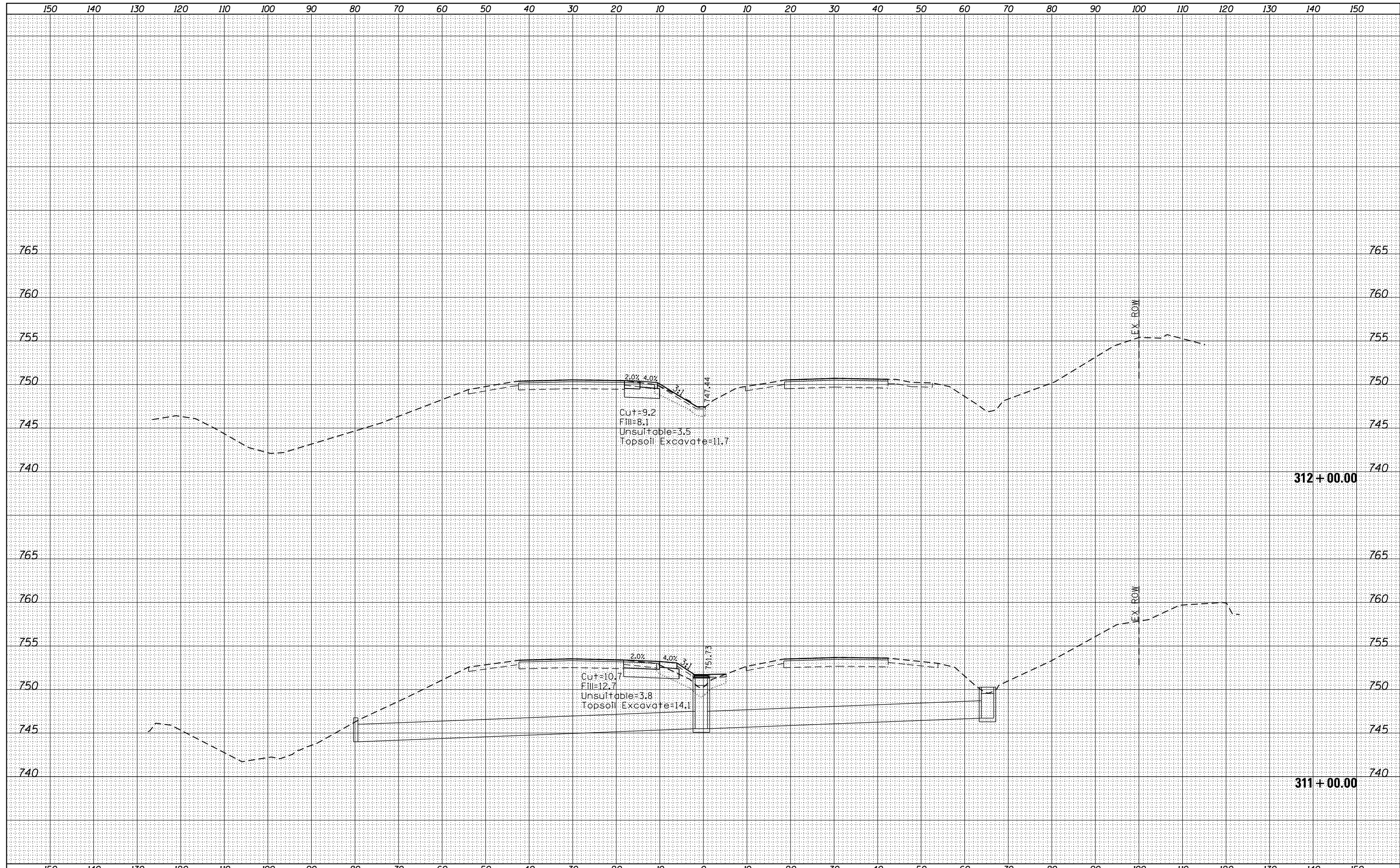
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		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED CROSS SECTIONS
ILLINOIS RTE. 120 AT ALMOND RD.**

SCALE: SHEET NO. OF SHEETS STA. 309+00.00 TO STA. 310+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2011-220-N	LAKE	41	35
CONTRACT NO. 60R59			ILLINOIS FED. AID PROJECT	



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY NO.	

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

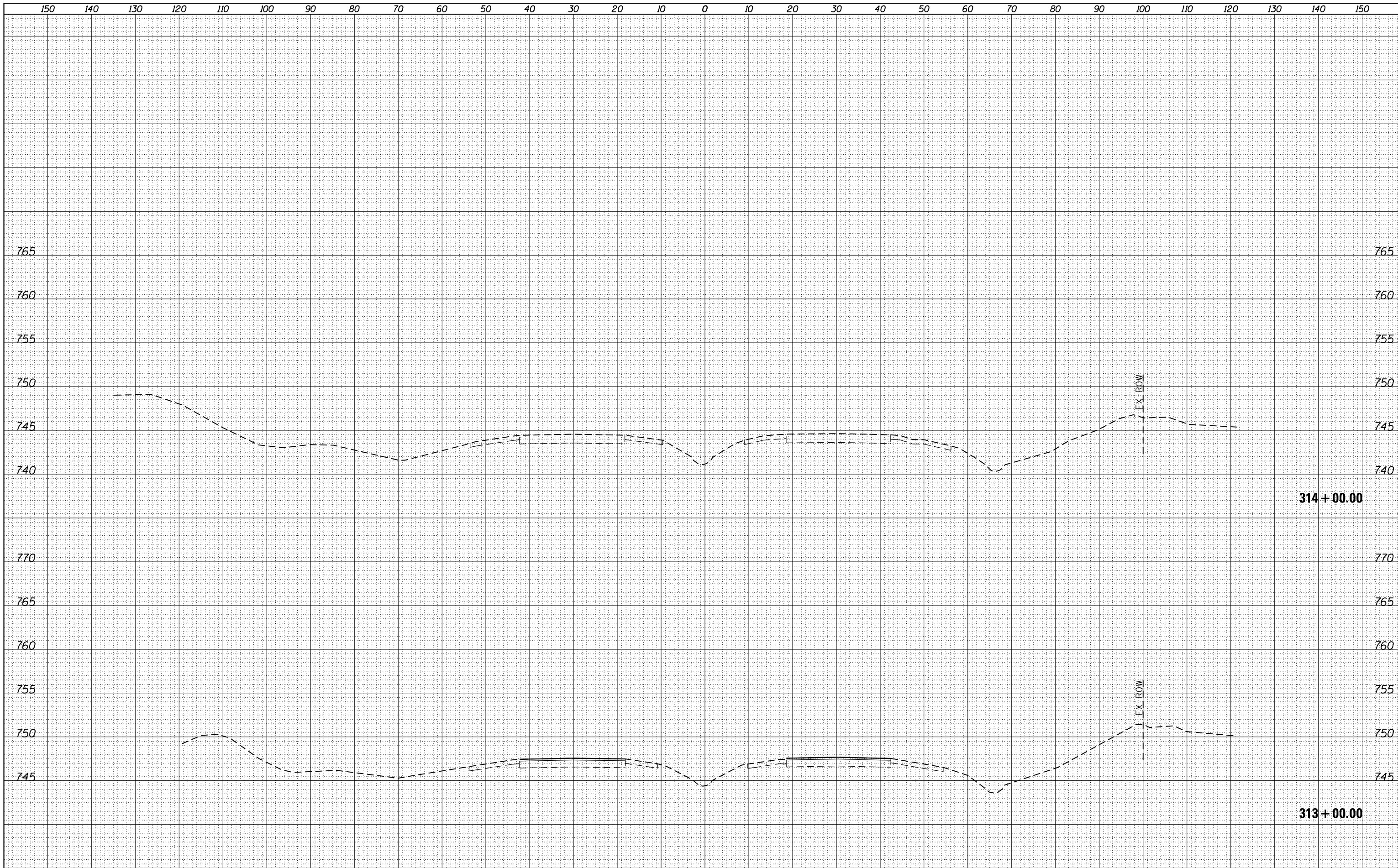
**EXISTING AND PROPOSED CROSS SECTIONS
ILLINOIS RTE. 120 AT ALMOND RD.**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2011-220-N	LAKE	41	36
CONTRACT NO. 60R59			ILLINOIS FED. AID PROJECT	

SCALE: SHEET NO. OF SHEETS STA. 311+00.00 TO STA. 312+00.00

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

BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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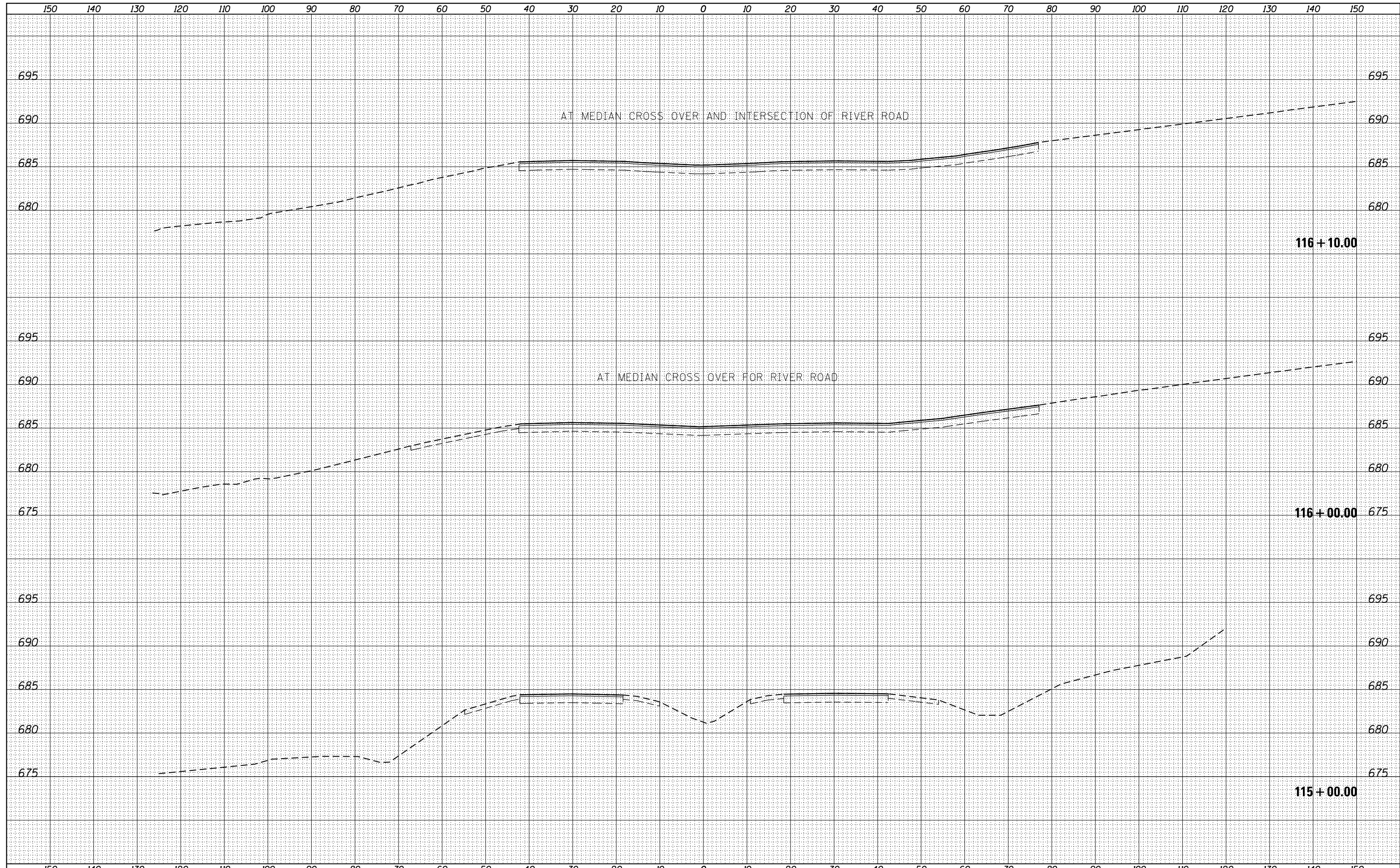
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED CROSS SECTIONS
 ILLINOIS RTE. 120 AT ALMOND RD.**
 SCALE: SHEET NO. OF SHEETS STA. 313+00.00 TO STA. 314+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2011-220-N	LAKE	41	37
CONTRACT NO. 60R59			ILLINOIS FED. AID PROJECT	



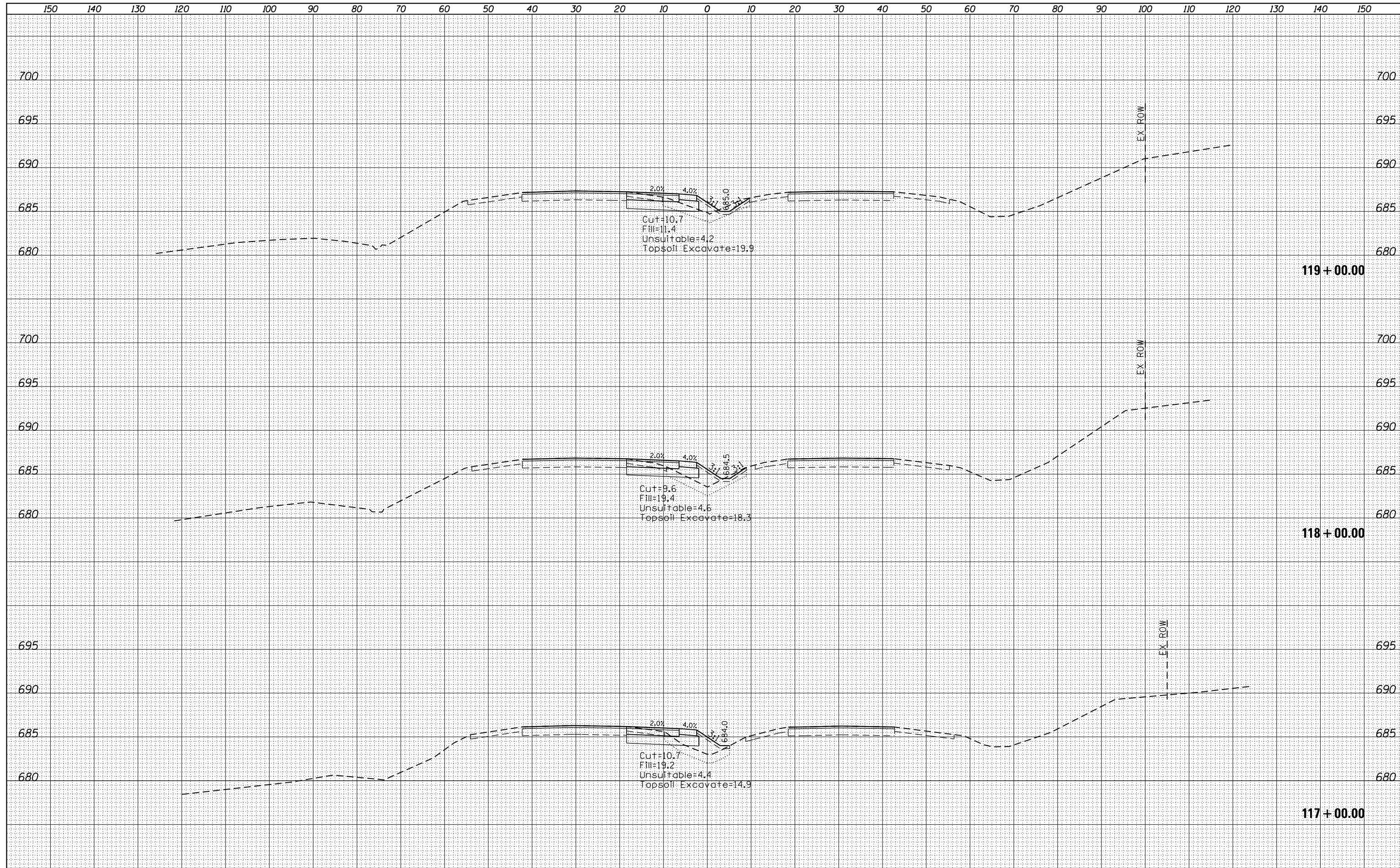
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	NOTE BOOK TEMPLATE
	AREAS AREAS
	CHECKED CHECKED

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

FILE NAME =	USER NAME = pencep1	DESIGNED -	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED CROSS SECTIONS ILLINOIS RTE. 120 AT RIVER RD.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw_work\p1dot\pencep1\d0187967\p170309-sh	xsst-120-riv.dgn	DRAWN -	REVISIED -			342	2011-220-N	LAKE	41	38
		CHECKED -	REVISIED -			CONTRACT NO. 60R59				
		DATE -	REVISIED -			ILLINOIS FED. AID PROJECT				
PLOT SCALE = 20.0000' / in.				SCALE:		SHEET NO. OF SHEETS		STA. 115+00.00 TO STA. 116+10.00		

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

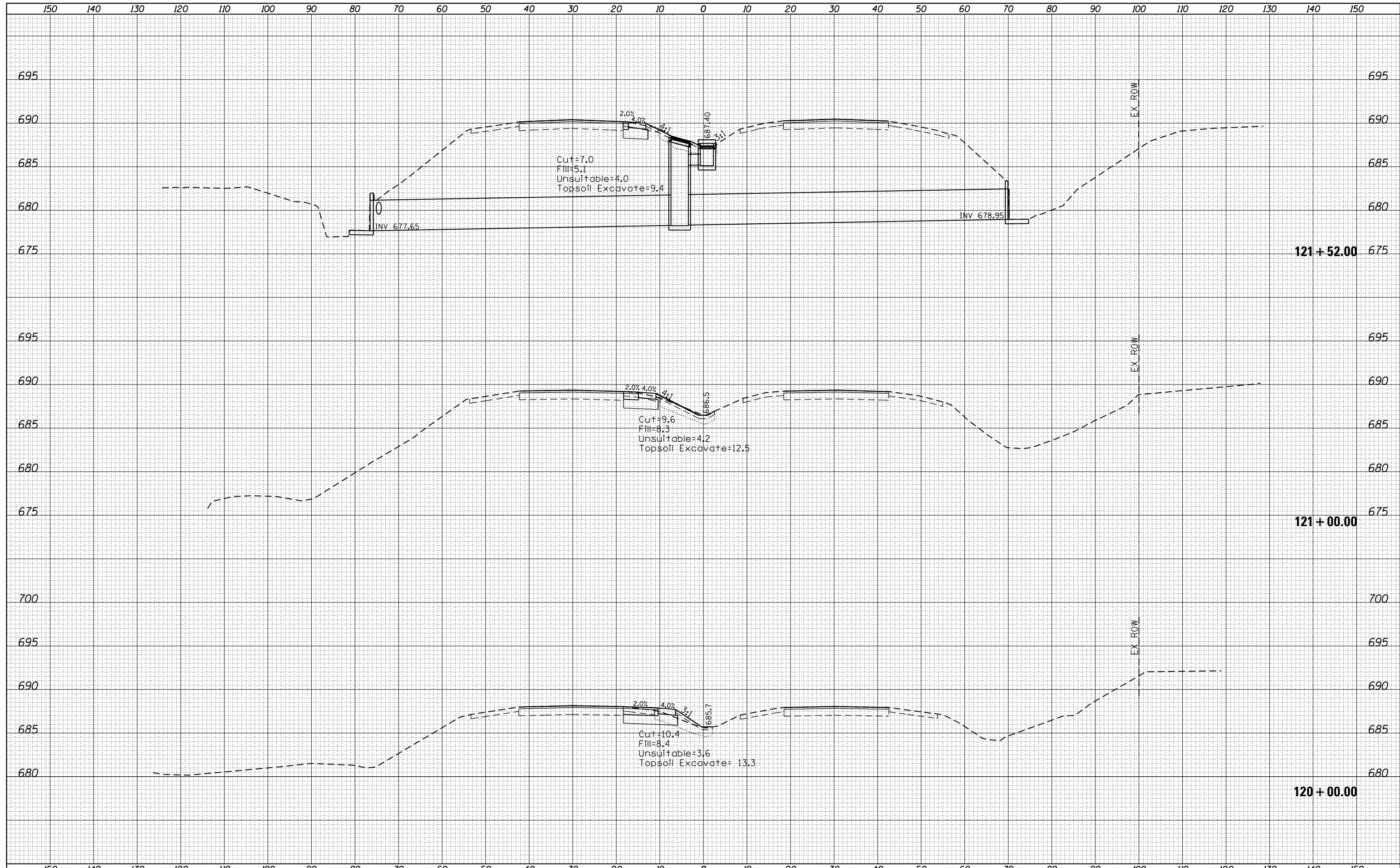
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



FILE NAME =	USER NAME = pencepl	DESIGNED -	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED CROSS SECTIONS ILLINOIS RTE. 120 AT RIVER RD.			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pw_work\p1dot\pencepl\d0187967\p170309-shd\ssht-120-riv.dgn		DRAWN -	REVISIED -		342	2011-220-N	LAKE	41	39			
PLOT SCALE = 20.0000' / in.		CHECKED -	REVISIED -		CONTRACT NO. 60R59							
PLOT DATE = 6/29/2012		DATE -	REVISIED -		SCALE:	SHEET NO.	OF SHEETS	STA. 117+00.00 TO STA. 119+00.00	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.	



FILE NAME =	USER NAME = pencepl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED CROSS SECTIONS ILLINOIS RTE. 120 AT RIVER RD.			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pw_work\pwidth\pencepl\d0187967\p170309-shd\ssht-120-rv.dgn		DRAWN -	REVISED -		342	2011-220-N	LAKE	41	40			
PLOT SCALE = 20.0000' / in.		CHECKED -	REVISED -		CONTRACT NO. 60R59							
PLOT DATE = 6/29/2012		DATE -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA. 120+00.00	TO STA. 121+52.00	ILLINOIS FED. AID PROJECT		

