

★58+2=60

D-88-012-09



TOWNSHIP: SHILOH VALLEY
FUNCTIONAL CLASSIFICATION: OTHER PRINCIPAL ARTERIAL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED March 20 2009
Mary C. James
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

May 8 2009
Charles J. Gravers
ENGINEER OF DESIGN AND ENVIRONMENT

May 8 2009
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

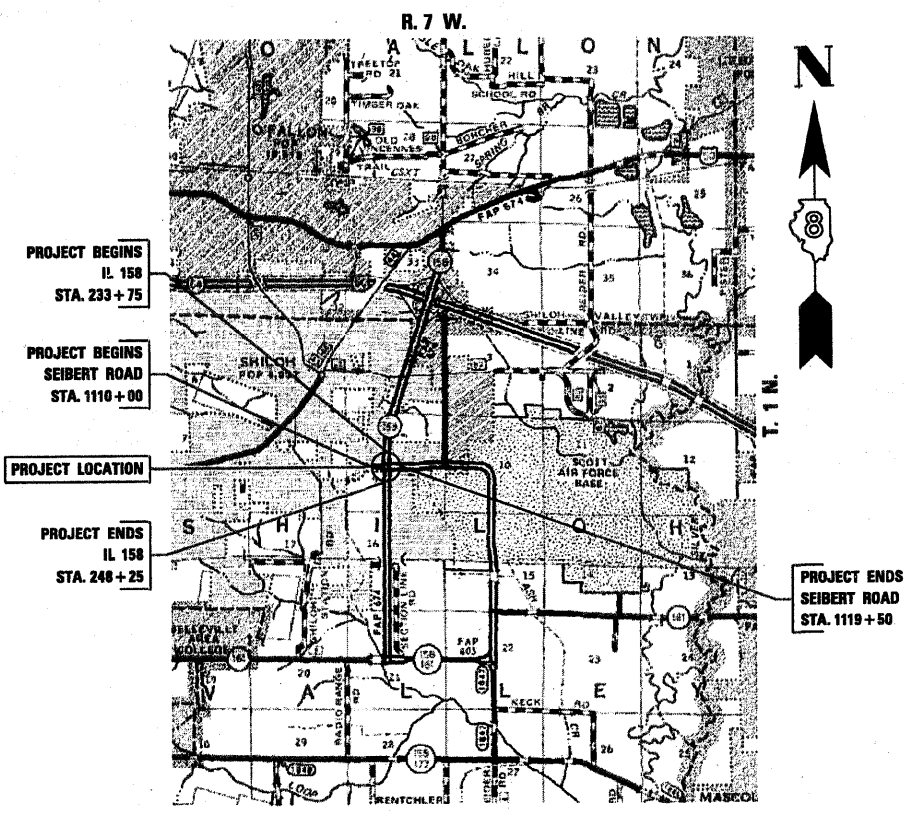
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OF THE STATE OF ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

F.A.P. ROUTE 674 /F.A.U. ROUTE 9177 (IL 158)
SECTION 410-1-N
PROJECT: NHF-0674(006)
INTERSECTION IMPROVEMENT
ST. CLAIR COUNTY

C-98-051-09



LOCATION MAP

GROSS LENGTH (IL 158) = 1450.00 FT. = 0.275 MILE
GROSS LENGTH (SEIBERT ROAD) = 950.00 FT. = 0.180 MILE
SCALE: 1" = 1 MILE

RICHARD K. ALLEN
LICENSED PROFESSIONAL ENGINEER
OF ILLINOIS
063-054438
Expiration Date: 11/30/2009

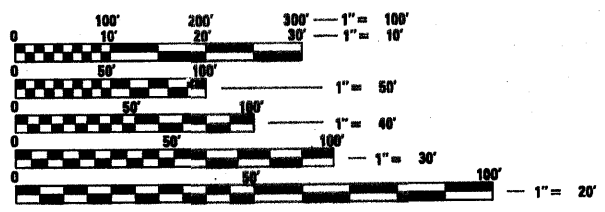
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	STANDARDS

LIST OF ILLINOIS DOT STANDARDS

000001-05	608301-04	781001-03
001006	781006-02	805001-01
280001-04	781101-01	814001-02
363001-04	781106-02	814006-02
482006-03	781311-03	857001-01
482011-03	781421-02	873001-02
542546-01	781426-03	877001-04
602306-02	781701-08	878001-07
602801-02	781801-01	880006-01
804001-03	720806-02	886001-01
804086-02	720818-02	886006-01
804081-02	720811-01	
808001-04	780001-02	

NORTH OF SEIBERT ROAD	A.D.T.	SOUTH OF SEIBERT ROAD
2007 A.D.T. = 18,500		2007 A.D.T. = 8,400
2027 A.D.T. = 24,800		2027 A.D.T. = 10,700
2.3% SU		4.2% SU
1.8% MU		2.7% MU



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

PROJECT ENGINEER PATTI LEBEAU (618)-346-3179
PROJECT MANAGER CHERYL KEPLAR (618)-346-3186

CONTRACT NO. 76C63

GENERAL NOTES

- 1.) THE THICKNESS OF BITUMINOUS MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
- 2.) EXCEPT AS NOTED IN THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- 3.) SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET OR IN AN UNTILLABLE CONDITION. AREAS TO BE SEEDED SHALL BE DETERMINED BY THE ENGINEER AND SEEDED AS SOON AS POSSIBLE.
- 4.) ALL SAW CUTS, NECESSARY TO COMPLETE THE WORK DETAILED IN THESE PLANS, SHALL BE INCLUDED IN THE COST FOR THE VARIOUS PAY ITEMS INVOLVED. THE MINIMUM SAW CUT DEPTH IN THE PAVEMENT SHALL BE 1 1/2 " UNLESS UNLESS OTHERWISE SPECIFIED IN A DETAIL SHOWN IN THE PLANS.
- 5.) UNLESS DIRECTED BY THE ENGINEER, PAVEMENT MARKING LINES SHALL NOT BE LAID DIRECTLY OVER A LONGITUDINAL CRACK OR JOINT NOR OVER A TAR OR ASPHALT PAINTED LINE. THE EDGE OF A CENTERLINE OR LANE LINE SHALL BE OFFSET A MINIMUM DISTANCE OF 2" FROM A LONGITUDINAL CRACK OR JOINT. EDGE LINES SHALL BE APPROXIMATELY 2" FROM THE EDGE LINE OF PAVEMENT. SEE SECTION 780 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
- 6.) ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OUTSIDE THE LIMITS OF RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN THE COST PER CUBIC YARD FOR EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 7.) IN ADDITION TO THE FIELD SURVEYS, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE A CAUSE FOR ADDITIONAL COMPENSATION DUE TO CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- 8.) THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION WILL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR WILL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT, AND NO COMPENSATION WILL BE ALLOWED. DAMAGE IS THE CONTRACTOR'S RESPONSIBILITY.
- 9.) THE LOCATION OF ALL UTILITIES ARE BASED ON INFORMATION PROVIDED BY OTHERS AND IS INTENDED TO BE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS CONSTRUCTION ACTIVITIES WITH THE VARIOUS UTILITY OWNERS. ALL POTENTIAL CONFLICTS SHALL BE INVESTIGATED AND REMEDIAL ACTION TAKEN PRIOR TO INTERRUPTION OF THE CONTRACTOR'S PROGRESS.
- 10.) ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON U.S.G.S. MEAN SEA LEVEL DATUM. ALL STATION AND OFFSET REFERENCES ARE TO THE ROADWAY CENTERLINE UNLESS OTHERWISE NOTED. THE STATE PLANE COORDINATE SYSTEM HAS BEEN USED FOR THE HORIZONTAL CONTROL.
- 11.) ALL AREAS DISTURBED FOR ANY REASON SHALL BE PERMANENTLY SEEDED AS DIRECTED BY THE ENGINEER. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDED AT THE CONTRACTOR'S EXPENSE.
- 12.) ALL EXISTING AND PROPOSED RIGHT-OF-WAY LINES AND PROPERTY LINES SHOWN ON THE PLAN SHEETS ARE GRAPHICAL REPRESENTATIONS AND SHALL NOT BE USED AS A MEANS TO ESTABLISH OWNERSHIP. IN ALL MATTERS RELATING TO RIGHT-OF-WAY, THE PLAT OF HIGHWAYS SHALL BE THE CONTROLLING DOCUMENT.
- 13.) THE STANDARDS AND REVISION NUMBERS LISTED SHALL APPLY TO THIS PROJECT.
- 14.) ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY.

AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

- CITY OF O'FALLON
- AMEREN IP
- CHARTER COMMUNICATIONS
- AT&T CORPORATION
- AT&T ILLINOIS
- ILLINOIS AMERICAN WATER COMPANY
- VILLAGE OF SHILOH
- QWEST COMMUNICATIONS
- SCOTT AIR FORCE BASE

MEMBERS OF J.U.L.I.E. (800)-892-0123 ARE INDICATED BY *. NON J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

- 15.) PROTECTIVE COAT SHALL BE APPLIED TO ALL GUTTER FLAGS, FACE OF CURB, AND MEDIAN SURFACE.
- 16.) THE RESIDENT ENGINEER SHALL VERIFY THE EXISTENCE OF HIGHWAY LIGHTING AND/OR ITS UTILITIES WITHIN THE PROJECT LIMITS. IF HIGHWAY LIGHTING AND/OR ITS EXISTS WITHIN THE PROJECT LIMITS, AND IF THESE ITEMS REQUIRE LOCATING, THE CONTRACTOR SHALL BE DIRECTED TO DO SO ACCORDING TO SECTION 803 OF THE STANDARD SPECIFICATIONS. IF LOCATING UNDERGROUND CABLE IS NOT INCLUDED AS PART OF THE PLANS, THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

- 17.) THE MANUFACTURER SHALL SPECIFICALLY RECOMMEND ALL EROSION CONTROL PRODUCTS FURNISHED FOR THE USE SPECIFIED IN THE EROSION CONTROL PLAN. PRIOR TO THE APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATE BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURERS RECOMMENDED INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.
- 18.) THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 19.) "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT EACH END OF THE PROJECT PLUS THE INTERSECTING SIDE ROADS, AND WILL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE 48" X 48".
- 20.) FLAGGERS SHALL BE PRESENT DURING ALL CLOSURE HOURS, INCLUDING LUNCH HOUR, AND NO ADDITIONAL COMPENSATION SHALL BE APPLIED.
- 21.) EXCAVATION ADJACENT TO EDGE OF PAVEMENT SHALL BE PROTECTED WITH EXTENDED LEG BARRICADES WITH STEADY BURN LIGHTS.
- 22.) SHORT-TERM PAVEMENT MARKING SHALL BE APPLIED TO THE MILLED, PRIMED, AND FINAL BITUMINOUS SURFACE. A QUANTITY FOR TEMPORARY PAVEMENT MARKING EQUAL TO THE AMOUNT OF PERMANENT PAVEMENT MARKING HAS BEEN ADDED TO THE PLANS. ONLY REMOVAL FROM FINAL SURFACE WILL BE PAID FOR AS WORK ZONE PAVEMENT MARKING REMOVAL.
- 23.) ALL TEMPORARY PAVEMENT MARKINGS WILL BE PLACED IN SUCH A MANNER SO AS NOT TO INTERFERE WITH THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

COMMITMENTS

NONE

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED TO CALCULATE THE PLAN QUANTITIES:

BITUMINOUS MATERIALS (PRIME COAT)	0.00038 TON/SQ. YD. (ON PAVEMENT)
BITUMINOUS MATERIALS (PRIME COAT)	0.001425 TON/SQ.YD. (ON AGG)
HOT MIX ASPHALT SURFACE / BINDER	0.056 TON/SQ. YD. PER 1"
AGGREGATE MATERIAL	2.05 TON/CU. YD.
RIPRAP	1.5 TON/CU. YD.
NITROGEN FERTILIZER NUTRIENT	90 LBS./ACRE
PHOSPHOROUS FERTILIZER NUTRIENT	90 LBS./ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LBS./ACRE
AGGREGATE PRIME COAT	0.002 TON/SQ. YD.
AGRICULTURAL GROUND LIMESTONE	2.0 TON/ACRE

MIXTURE REQUIREMENTS

MIXTURE USE(S)	POLYMERIZED HMA SURFACE COURSE	LEVELING BINDER	HMA SHOULDERS	TOP LIFT SHOULDERS
AC/PG	SBS PG 76-22	PG 64-22	PG 64-22	PG 64-22
RAP % MAX	10%	10%	30%	30%
DESIGN AIR VOIDS	4.0% @ N DESIGN = 90	4.0% @ N DESIGN = 90	2.0% @ N DESIGN = 30	**2.0% @ N DESIGN = 30
MIXTURE COMPOSITION				
FRICTION AGGREGATE	MIX D	MIX C	BAM	BAM

** TOP LIFT SHOULDERS - DESIGN THIS MIX AT 2.0% VOIDS AND ADD ASPHALT TO REDUCE VOIDS TO 1.5%.

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED -	REVISED -		Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	GENERAL NOTES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						674	410-1-N	ST. CLAIR	58	2
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -						CONTRACT NO. 76C63				
	PLOT DATE = #DATE#	DATE -	REVISED -						FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
						SCALE: NONE	SHEET NO. 2 OF 58 SHEETS	STA.	TO STA.				

SUMMARY OF QUANTITIES

URBAN

		CONSTRUCTION TYPE CODE	
		1000-1A	
CODE NO.	SUMMARY OF QUANTITIES PAY ITEM	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD	865
20800150	TRENCH BACKFILL	CU YD	167
25000210	SEEDING, CLASS 2A	ACRE	0.4
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	36
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	36
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	36
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.8
25100115	MULCH, METHOD 2	ACRE	0.4
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	80
28000300	TEMPORARY DITCH CHECKS	EACH	2
28000400	PERIMETER EROSION BARRIER	FOOT	1682
28000500	INLET AND PIPE PROTECTION	EACH	8
28000720	MULCH, METHOD 2	ACRE	0.4
35100300	AGGREGATE BASE COURSE, TYPE A 4"	SQ YD	4849
35300300	PORTLAND CEMENT CONCRETE BASE COURSE 8"	SQ YD	4296
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	9.3
40600300	AGGREGATE (PRIME COAT)	TON	48.8
40600645	LEVELING BINDER (MACHINE METHOD), N90	TON	1153
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	61
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	267
40600990	TEMPORARY RAMP	SQ YD	740
40603545	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	1761
44000100	PAVEMENT REMOVAL	SQ YD	471
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	16741
44003100	MEDIAN REMOVAL	SQ FT	17354
44003900	MEDIAN SURFACE REMOVAL AND REPLACEMENT	SQ FT	1003
44004250	PAVED SHOULDER REMOVAL	SQ YD	2335
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	334
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	1037
48203100	HOT-MIX ASPHALT SHOULDERS	TON	329
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	46
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	250
54244405	FLUSH INLET BOX FOR MEDIAN, STANDARD 542546	EACH	1
60240320	INLETS, TYPE B, TYPE 15 FRAME AND LID	EACH	2
60260300	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	2
60261500	INLETS TO BE ADJUSTED WITH NEW TYPE 15 FRAME AND LID	EACH	1

SUMMARY OF QUANTITIES

URBAN

		CONSTRUCTION TYPE CODE	
		1000-1A	
CODE NO.	SUMMARY OF QUANTITIES PAY ITEM	UNIT	QUANTITY
60267155	FLUSH INLET BOX FOR MEDIAN (542546) TO BE RECONSTRUCTED	EACH	1
60401040	FRAMES, TYPE 24	EACH	1
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	75
60620000	CONCRETE MEDIAN, TYPE SB-6.24	SQ FT	19364
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4
67100100	MOBILIZATION	L SUM	1
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1
70103700	TRAFFIC CONTROL COMPLETE	L SUM	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	90
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	1320
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	156
70300220	TEMPORARY PAVEMENT MARKING-LINE 4"	FOOT	22150
70300250	TEMPORARY PAVEMENT MARKING-LINE 8"	FOOT	2618
70300260	TEMPORARY PAVEMENT MARKING-LINE 12"	FOOT	978
70300280	TEMPORARY PAVEMENT MARKING-LINE 24"	FOOT	226
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	18566
* 72000200	SIGN PANEL - TYPE 2	SQ FT	32
* 73000100	WOOD SIGN SUPPORT	FOOT	30
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	156
* 78000200	THERMOPLASTIC PAVEMENT MARKING-LINE 4"	FOOT	12408
* 78000500	THERMOPLASTIC PAVEMENT MARKING-LINE 8"	FOOT	2618
* 78000600	THERMOPLASTIC PAVEMENT MARKING-LINE 12"	FOOT	978
* 78000650	THERMOPLASTIC PAVEMENT MARKING-LINE 24"	FOOT	204
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	301
* 78200300	PRISMATIC CURB REFLECTOR	EACH	105
78300100	PAVEMENT MARKING REMOVAL	SQ FT	1264
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	170
* 80300100	LOCATING UNDERGROUND CABLE	FOOT	200
* 80400105	ELECTRIC SERVICE INSTALLATION, SPECIAL	EACH	1
* 81000300	CONDUIT IN TRENCH, 1" DIA., GALVANIZED STEEL	FOOT	14
* 81000500	CONDUIT IN TRENCH, 1 1/2" DIA., GALVANIZED STEEL	FOOT	14
* 81012300	CONDUIT IN TRENCH, 1" DIA., PVC	FOOT	1250
* 81012400	CONDUIT IN TRENCH, 1 1/4" DIA., PVC	FOOT	13
* 81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	61
* 81012800	CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	28
* 81012900	CONDUIT IN TRENCH, 3 1/2" DIA., PVC	FOOT	70

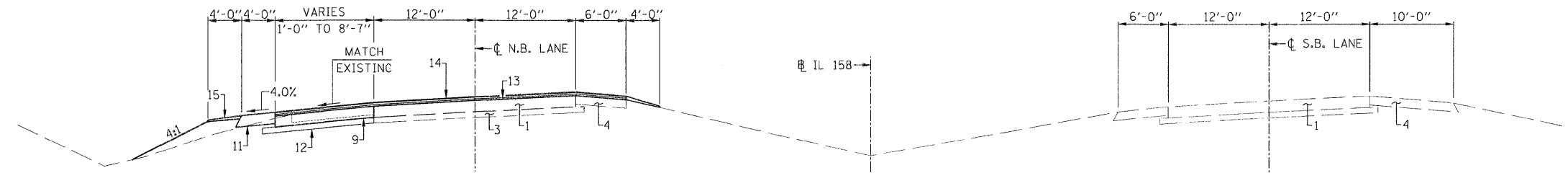
SUMMARY OF QUANTITIES

		CONSTRUCTION TYPE CODE	
		1000-1A	
CODE NO.	SUMMARY OF QUANTITIES PAY ITEM	UNIT	QUANTITY
81013000	CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	8
81013100	CONDUIT IN TRENCH, 5" DIA., PVC	FOOT	23
81018200	CONDUIT PUSHED, 1" DIA., GALVANIZED STEEL	FOOT	48
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	235
81018700	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	40
81018800	CONDUIT PUSHED, 3 1/2" DIA., GALVANIZED STEEL	FOOT	149
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	62
81019000	CONDUIT PUSHED, 5" DIA., GALVANIZED STEEL	FOOT	95
81400100	HANDHOLE	EACH	11
81400300	DOUBLE HANDHOLE	EACH	1
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1481
85700200	FULL - ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
85706000	INTERSECTION MONITOR UNIT	EACH	1
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	6433
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1702
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	6661
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	14
87502680	TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	EACH	1
87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
87700250	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
87700290	STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	3
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	3
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	41
87900200	DRILL EXISTING HANDHOLE	EACH	4
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	8
88500100	INDUCTIVE LOOP DETECTOR	EACH	17
88600100	DETECTOR LOOP, TYPE I	FOOT	1466
89000105	TEMPORARY TRAFFIC SIGNAL INSTALLATION (SPECIAL)	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502380	REMOVE EXISTING HANDHOLE	EACH	9
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	8

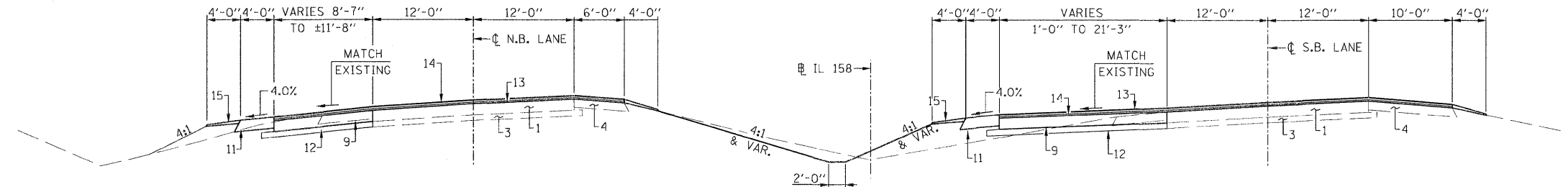
SUMMARY OF QUANTITIES

		CONSTRUCTION TYPE CODE	
		1000-1A	
CODE NO.	SUMMARY OF QUANTITIES PAY ITEM	UNIT	QUANTITY
X7240500	RELOCATE EXISTING SIGNS	EACH	3
X7800100	PAINT PAVEMENT MARKING - RAISED MEDIAN	SQ FT	316
X7800200	PAINT PAVEMENT MARKING CURB	FOOT	976
Z0076600	2 TRAINEES	HOURS	1,000

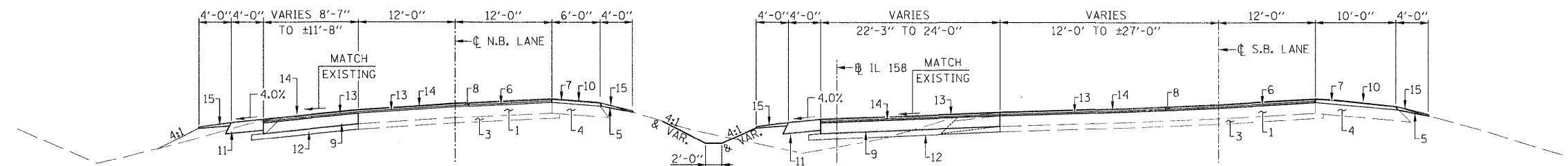
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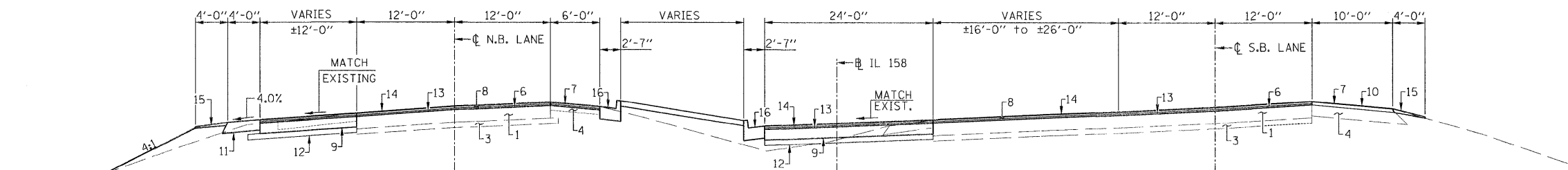
TYPICAL SECTION #1 - IL 158
(STA. 233+75 TO STA. 235+50)



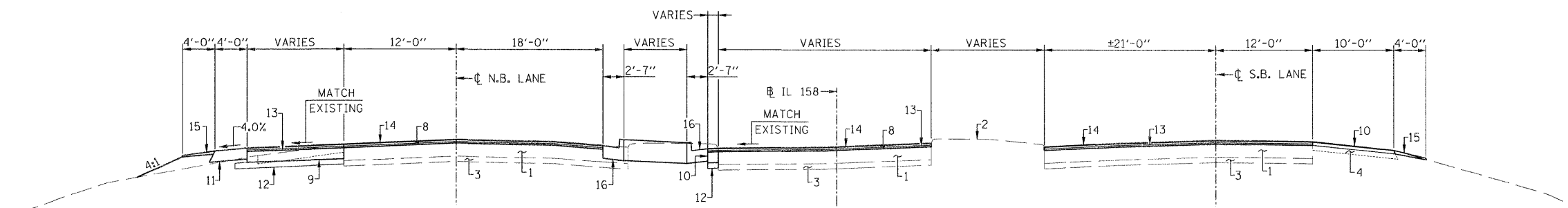
TYPICAL SECTION #2 - IL 158
(STA. 235+50 TO STA. 237+70)



TYPICAL SECTION #3 - IL 158
(STA. 237+70.00 TO STA. 240+11.82)



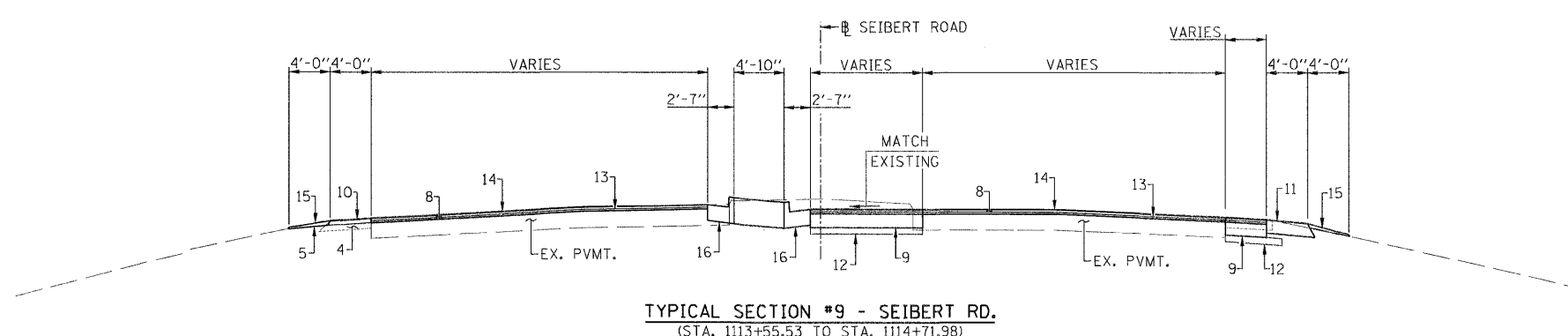
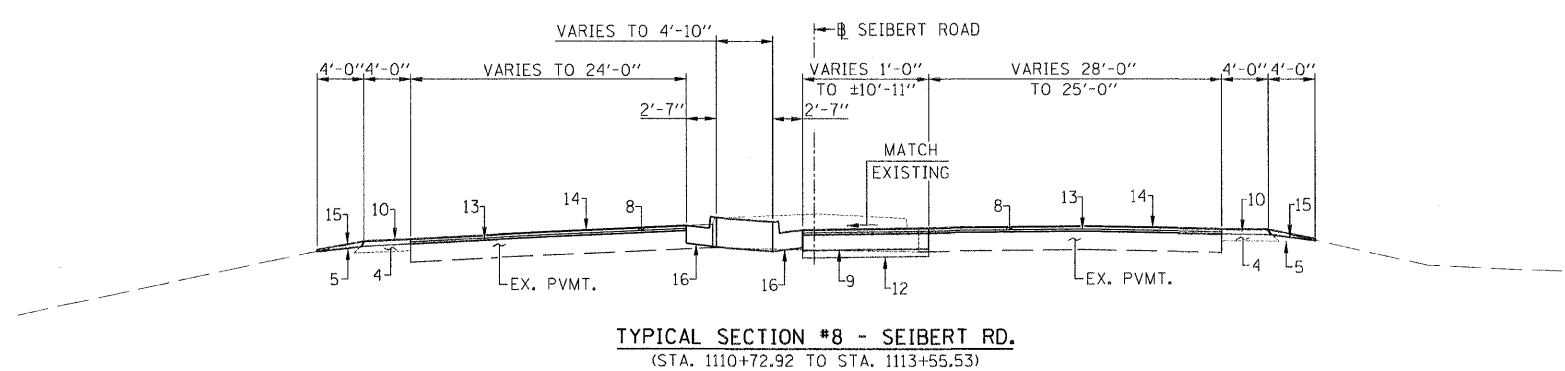
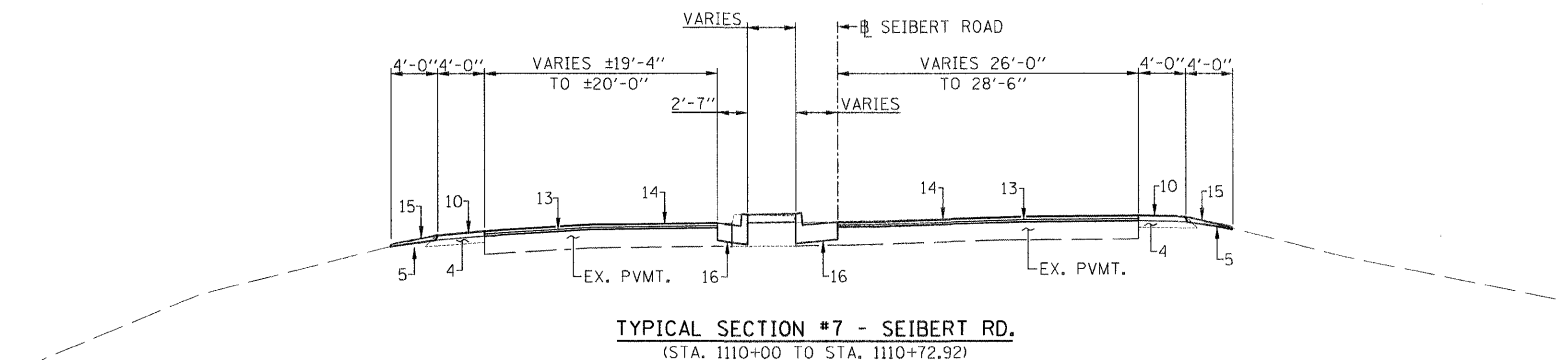
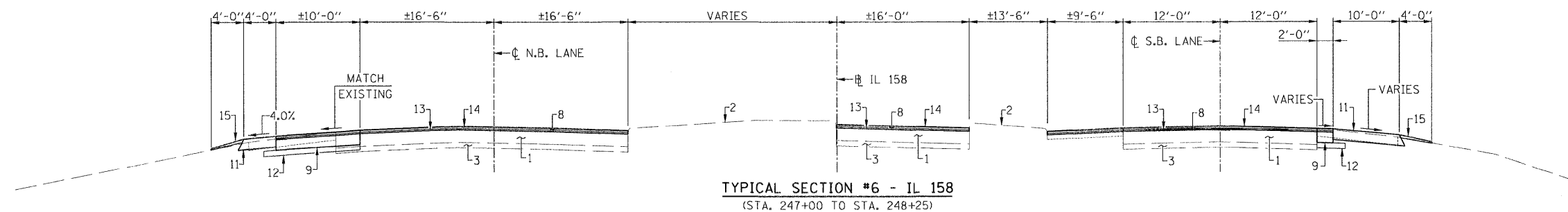
TYPICAL SECTION #4 - IL 158
(STA. 240+11.82 TO STA. 242+37.00)



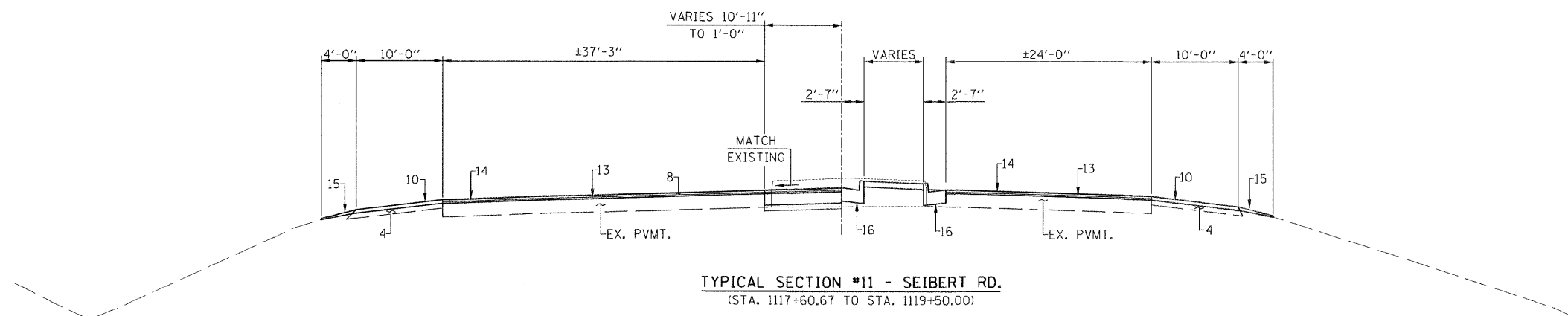
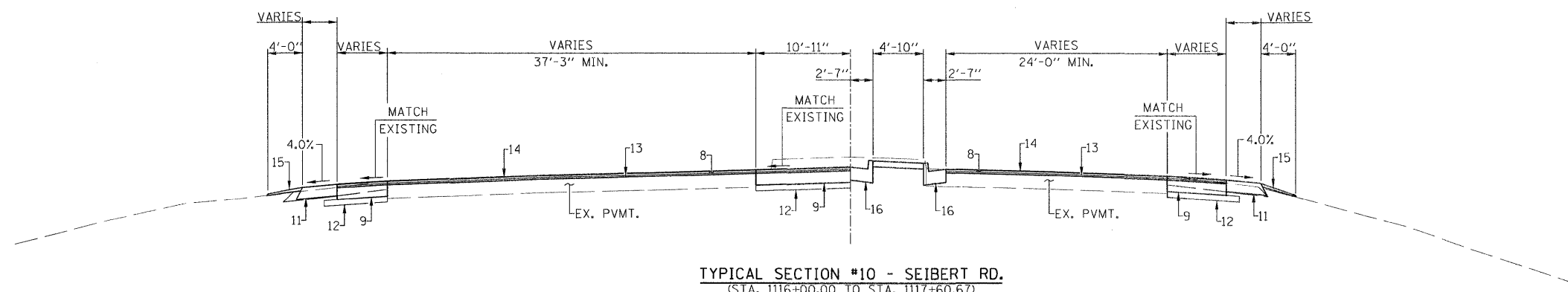
TYPICAL SECTION #5 - IL 158
(STA. 242+37.00 TO STA. 245+77.00)

- LEGEND**
1. EXISTING PCC PAVEMENT, 8"
 2. EXISTING CURB AND GUTTER
 3. EXISTING GRANULAR SUBBASE, 4"
 4. EXISTING HOT-MIX ASPHALT SHOULDERS, 8"
 5. EXISTING AGGREGATE SHOULDERS
 6. EXISTING LEVELING BINDER, 1"
 7. EXISTING SURFACE COURSE, 1 1/2"
 8. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
 9. PROPOSED PCC BASE COURSE, 8"
 10. PROPOSED HOT-MIX ASPHALT SHOULDERS (2 1/2")
 11. PROPOSED HOT-MIX ASPHALT SHOULDERS, 8"
 12. PROPOSED AGGREGATE BASE COURSE, TYPE A 4"
 13. PROPOSED LEVELING BINDER (MACHINE METHOD) (1")
 14. PROPOSED HOT-MIX ASPHALT SURFACE COURSE (1 1/2")
 15. PROPOSED AGGREGATE WEDGE SHOULDERS, TYPE B
 16. PROPOSED CONCRETE MEDIAN, TYPE SB-6.24

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	TYPICAL SECTIONS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN -	REVISED -				674	410-1-N	ST. CLAIR	58	5
		CHECKED -	REVISED -								
		DATE -	REVISED -								
					SCALE:		SHEET NO. 5 OF 58 SHEETS	STA.	TO STA.	CONTRACT NO. 76C63	
										FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



- LEGEND**
1. EXISTING PCC PAVEMENT, 8"
 2. EXISTING CURB AND GUTTER
 3. EXISTING GRANULAR SUBBASE, 4"
 4. EXISTING HOT-MIX ASPHALT SHOULDERS, 8"
 5. EXISTING AGGREGATE SHOULDERS
 6. EXISTING LEVELING BINDER, 1"
 7. EXISTING SURFACE COURSE, 1 1/2"
 8. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
 9. PROPOSED PCC BASE COURSE, 8"
 10. PROPOSED HOT-MIX ASPHALT SHOULDERS (2 1/2")
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 15. PROPOSED AGGREGATE WEDGE SHOULDERS, TYPE B
 16. PROPOSED CONCRETE MEDIAN, TYPE SB-6.24



LEGEND

1. EXISTING PCC PAVEMENT, 8"
2. EXISTING CURB AND GUTTER
3. EXISTING GRANULAR SUBBASE, 4"
4. EXISTING HOT-MIX ASPHALT SHOULDERS, 8"
5. EXISTING AGGREGATE SHOULDERS
6. EXISTING LEVELING BINDER, 1"
7. EXISTING SURFACE COURSE, 1 1/2"
8. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
9. PROPOSED PCC BASE COURSE, 8"
10. PROPOSED HOT-MIX ASPHALT SHOULDERS (2 1/2")
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15. PROPOSED AGGREGATE WEDGE SHOULDERS, TYPE B
16. PROPOSED CONCRETE MEDIAN, TYPE SB-6.24

FILE NAME = \$FILE\$	USER NAME = \$USER\$	DESIGNED -	REVISED -		Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	TYPICAL SECTIONS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -							674	410-1-N	ST. CLAIR	58	7
PLOT SCALE = \$SCALE\$		CHECKED -	REVISED -			SCALE: SHEET NO. 7 OF 58 SHEETS STA. TO STA.				CONTRACT NO. 76C63				
PLOT DATE = \$DATE\$		DATE -	REVISED -							FED. ROAD DIST. NO.	ILLINOIS	FED. AID	PROJECT	

SCHEDULE
EARTHWORK

LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD
IL. 158				
STA. 233+75 TO STA. 245+00	712	534	594	-60
STA. 247+00 TO STA. 248+25	90	68	35	+33
SEIBERT RD.				
STA. 1110+00 TO STA. 1114+50	38	29	2	+27
STA. 1116+50 TO STA. 1119+50	25	19	19	0
TOTAL	865	650	650	0

SCHEDULE
TRENCH BACKFILL

LOCATION	QUANTITY (CU. YD.)
STA. 240+09 TO STA. 242+02	159.0
STA. 1113+00	2.0
STA. 1114+33 TO STA. 1114+68	6.0
TOTAL	167.0

SCHEDULE
BASE COURSE

LOCATION	PCC BASE COURSE, 8" (SQ. YD.)	AGG. BASE COURSE, TY. A 4" (SQ. YD.)
STA. 233+87.4 LT. TO STA. 1117+60.7 LT.	1478	1690
STA. 235+61.5 RT. TO STA. 244+53.7 LT.	1644	1794
STA. 1110+72.9 TO STA. 1114+72	406	475
STA. 1113+55.5 RT. TO STA. 247+74.5 RT.	118	151
STA. 248+10.3 LT. TO STA. 1117+49.3 RT.	300	341
STA. 1116+00 TO STA. 1119+02.5	350	398
TOTAL	4296	4849

SCHEDULE
EROSION CONTROL ITEMS

LOCATION	PERIMETER EROSION BARRIER (FT.)	TEMP. DITCH CHECK (EACH)	TEMP. EROSION CONTROL SEEDING (POUND)	INLET AND PIPE PROTECTION (EACH)
STA. 235+50 TO STA. 240+11			80	
STA. 237+00 LT.		1		
STA. 239+00 LT.		1		
STA. 233+75 TO STA. 245+55 LT	1260			
STA. 1113+45 TO STA. 1114+57 RT.	185			
STA. 1116+24 TO STA. 1117+60 RT.	237			
STA. 239+50 LT.				1
STA. 242+00				1
STA. 245+50 LT.				1
STA. 245+72 RT.				1
STA. 1113+00.5				2
STA. 1114+33 LT.				1
STA. 1114+68.3 RT.				1
TOTAL	1682	2	80	8

SCHEDULE
PERMANENT SEEDING

LOCATION	SEEDING CLASS 2 (ACRE)	NITROGEN FERT. NUT. (POUND)	PHOSPHORUS FERT. NUT. (POUND)	POTASSIUM FERT. NUT. (POUND)	MULCH METHOD 2 (ACRE)	AGRICULTURAL GROUND LIMESTONE (TON)
STA. 235+50 TO STA. 240+11 (CEN. MED.)	0.4	36	36	36	0.4	0.8
TOTAL	0.4	36	36	36	0.4	0.8

SCHEDULE
PAINT PAVEMENT MARKING - RAISED MEDIAN

LOCATION	QUANTITY (SQ. FT.)
IL. 158	
STA. 242+37 RT.	35
STA. 245+55 LT.	24
STA. 246+92 RT.	45
SEIBERT RD.	
STA. 1110+19 LT.	20
STA. 1114+48 LT.	24
STA. 1116+27 RT.	24
N.E. ISLAND	36
S.E. ISLAND	36
S.W. ISLAND	36
N.W. ISLAND	36
TOTAL	316

SCHEDULE
PAVEMENT MARKING

LOCATION	THERMOPLASTIC PAVEMENT MARKING							TEMPORARY PAVEMENT MARKING					SHORT-TERM PVMT. MRK. LINE	WORK ZONE PVMT. MRK. REMOVAL	PAVEMENT MARKING REMOVAL	SIGN PANEL - TYPE 2	WOOD SIGN SUPPORT
	SOLID 4"	SKIP-DASH (2'/6") WHITE 4"	SKIP-DASH (10'/30") WHITE 4"	SOLID 8"	SOLID 12"	SOLID WHITE 24"	LETTERS & SYMBOLS	LINE 4"	LINE 8"	LINE 12"	LINE 24"	LETTERS & SYMBOLS					
	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ. FT.	FOOT	FOOT	FOOT	FOOT	SQ. FT.	FOOT	SQ. FT.	SQ. FT.	SQ. FT.	FOOT
IL. 158																	
STA. 233+75 TO STA. 248+25	4651	98	940	1574	285	87	93.6	5689	1574	285	87	93.6	798	7256			
SEIBERT RD.																	
STA. 1105+05 TO STA. 1114+80	4220	34	120	350	258	66	31.2	4374	350	258	66	31.2	260	4312			
STA. 1115+80 TO STA. 1120+00	2155		190	694	435	51	31.2	2345	694	435	51	31.2	262	3710			
STAGE I								2476						825	492		
STAGE III								5715						1903	701		
STAGE IV								1551			22			560	71		
STA. 237+30 RT. (W4-2) 48"																16	15
STA. 240+98 RT. (W9-1) 48"																16	15
SUB-TOTAL	11026	132	1250														
TOTAL		12408		2618	978	204	156	22150	2618	978	226	156	1320	18566	1264	32	30

SCHEDULE
RAISED REFLECTIVE PAVEMENT MARKER

LOCATION	RAISED REFL PAVT MRK REM (EACH)	RAISED REFL PAVT MRK (EACH)
IL. 158		
STA. 233+75 TO STA. 248+25	150	204
SEIBERT RD.		
STA. 1110+00 TO STA. 1115+35.19	20	97
TOTAL	170	301

SCHEDULE
PRISMATIC CURB REFLECTOR

LOCATION	QUANTITY (EACH)
IL. 158	
STA. 240+11.8 TO STA. 245+56 LT.	30
SEIBERT RD.	
STA. 1110+19.2 TO STA. 1114+47.9 LT.	28
STA. 1116+26.5 TO STA. 1119+38.6	18
N.W. CORNER ISLAND	7
S.W. CORNER ISLAND	10
S.E. CORNER ISLAND	12
TOTAL	105

SCHEDULE
PAINT PAVEMENT MARKING CURB

LOCATION	QUANTITY (FOOT)
IL. 158	
STA. 240+11 TO STA. 240+75 LT.	48
STA. 242+37 TO STA. 243+73 RT.	116
STA. 244+80 TO STA. 245+55 LT.	68
STA. 245+64 TO STA. 245+75 RT.	40
STA. 246+64 TO STA. 246+74	55
STA. 246+92 TO STA. 247+02 RT.	68
SEIBERT RD.	
STA. 1110+19 TO STA. 1110+94 LT.	68
STA. 1113+73 TO STA. 1114+48 LT.	68
STA. 1116+27 TO STA. 1117+00 RT.	68
N.E. ISLAND	124
S.E. ISLAND	111
S.W. ISLAND	72
N.W. ISLAND	70
TOTAL	976

SCHEDULE
PAVEMENT

LOCATION	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE PRIME COAT	LEVELING BINDER (MACHINE METHOD) N90	HMA SURF. CRSE. MIX D N90	TEMPORARY RAMP
	TON	TON	TON	TON	SQ. YD.
STA. 233+75 TO STA. 234+25 (N.B.)	0.07	0.37		15.8	
STA. 234+25 TO STA. 236+00 (N.B.)	0.29	1.53	33.6	50.4	
STA. 235+50 TO STA. 236+00 (S.B.)	0.08	0.42		16.4	
STA. 236+00 TO STA. 242+37 (N.B./S.B.)	3.12	16.42	367.0	550.5	
STA. 242+37 TO STA. 245+77 (N.B./S.B.)	1.91	10.03	251.8	377.7	
STA. 246+63 TO STA. 248+00 (N.B./S.B.)	0.71	3.72	92.7	139.1	
STA. 248+00 TO STA. 248+25 (N.B.)	0.04	0.24	5.2	7.7	
STA. 1110+00 TO STA. 1114+64 (E.B./W.B.)	1.26	6.63	167.5	251.3	
STA. 1114+64 TO STA. 1116+00 (E.B./W.B.)	0.60	3.15	88.2	132.2	
STA. 1116+00 TO STA. 1119+50 (E.B./W.B.)	1.19	6.26	146.6	219.9	
STAGE I					240
STAGE II					300
STAGE III					200
TOTAL	9.3	48.8	1153	1761	740

SCHEDULE
PAVEMENT REMOVAL

LOCATION	QUANTITY (SQ. YD.)
STA. 243+00 TO STA. 245+57 (E. MED.)	78.0
STA. 245+01 TO STA. 245+77 (W. MED.)	6.0
STA. 1110+14 TO STA. 1114+72 (CEN. MED.)	106.0
STA. 1114+43 TO STA. 1114+69 (N.W.)	21.5
STA. 1114+47 TO STA. 1114+72 (S.W.)	39.0
STA. 1116+00 TO STA. 1119+39 (CEN. MED.)	93.5
STA. 1116+02 TO STA. 1119+49 (S.E.)	127.00
TOTAL	471.0

SCHEDULE
PAVED SHOULDER REMOVAL

LOCATION	QUANTITY (SQ. YD.)
STA. 233+87.4 TO STA. 245+78.5 LT.	1427
STA. 235+61.5 TO STA. 243+27 RT.	495
STA. 1113+55.5 TO STA. 1114+80.5 RT.	126
STA. 1116+00 TO STA. 1117+49.3	287
TOTAL	2335

SCHEDULE
HOT-MIX ASPHALT SHOULDERS, 8"

LOCATION	QUANTITY (SQ. YD.)
IL. 158	
STA. 233+87.4 TO STA. 245+76.53 (N.B./E.)	608.8
STA. 235+61.5 TO STA. 240+11.61 (S.B./E.)	201.3
SEIBERT RD.	
STA. 1113+55.5 TO STA. 1114+78.5 (S.W. CORN)	92.6
STA. 1116+01.4 TO STA. 1117+49.25 (S.E. CORN)	134.2
TOTAL	1036.9

SCHEDULE
HOT-MIX ASPHALT SHOULDERS

LOCATION	QUANTITY (TON)
IL. 158	
STA. 233+75 TO STA. 233+87.35 (N.B./E. & W.)	3.0
STA. 233+87.35 TO STA. 235+61.45 (N.B./W.)	15.1
STA. 235+50 TO STA. 235+61.45 (N.B./W., S.B./E.&W.)	3.8
STA. 235+61.45 TO STA. 240+11.82 (N.B./W., S.B./W.)	110.5
STA. 240+11.82 TO STA. 245+60 (S.B./W.)	81.3
STA. 247+74.47 TO STA. 248+00 (S.B./W.)	4.0
STA. 248+10.3 TO STA. 248+25 (N.B./E.)	2.3
SEIBERT RD.	
STA. 1110+00 TO STA. 1113+55.5 (N. & S.)	43.8
STA. 1113+55.5 TO STA. 1114+27.5 (N.)	4.5
STA. 1117+49.3 TO STA. 1117+60.7 (S.)	1.8
STA. 1117+60.7 TO STA. 1119+50 (N. & S.)	58.9
TOTAL	329

SCHEDULE
MEDIAN REMOVAL

LOCATION	QUANTITY (SQ. FT.)
STA. 243+04 TO STA. 245+56 (E. MED.)	3358
STA. 245+01 TO STA. 245+76 (W. MED.)	192
STA. 1110+15 TO STA. 1114+71 (CEN. MED.)	7067
STA. 1114+69 TO STA. 1114+67 (N.W.)	188
STA. 1114+62 TO STA. 1114+69 (S.W.)	35
STA. 1116+01 TO STA. 1119+39 (CEN. MED.)	6337
STA. 1116+04 TO STA. 1116+21 (S.E.)	177
TOTAL	17354

SCHEDULE
HMA SURFACE REMOVAL 2 1/2"

LOCATION	QUANTITY (SQ. YD.)
STA. 237+70 TO STA. 242+37 (N.B./S.B.)	4062.8
STA. 242+37 TO STA. 245+77 (N.B./S.B.)	4140.6
STA. 246+63 TO STA. 248+00 (N.B./S.B.)	1316.1
STA. 248+00 TO STA. 248+25 (N.B.)	106.6
STA. 1110+00 TO STA. 1114+64 (E.B./W.B.)	2955.9
STA. 1114+64 TO STA. 1116+00 (E.B./W.B.)	1229.1
STA. 1116+00 TO STA. 1119+50 (E.B./W.B.)	2929.9
TOTAL	16741

SCHEDULE
STORM SEWER

LOCATION	STORM SEWER CL. A, TY. 2 18"	STORM SEWER CL. A, TY. 2 24"	INLETS, TY. B, TY. 15 FRAME AND LID	INLETS TO BE ADJUSTED W/ NEW TY. 1 FRAME, OPEN LID	INLETS TO BE ADJUSTED W/ NEW TY. 15 FRAME AND LID	FLUSH INLET BOX FOR MEDIAN, STD. 524546	FLUSH INLET BOX FOR MEDIAN (524546) TO BE RECONSTRUCTED	FRAMES, TYPE 24
	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH
STA. 239+50, 15.3' LT.						1		
STA. 239+50 TO STA. 242+00		250					1	1
STA. 242+00								
STA. 245+50 LT.					1			
STA. 1113+00.5	10		1	1				
STA. 1114+32.94 LT.			1					
STA. 1114+32.94 TO STA. 1114+68.3	36			1				
STA. 1114+68.3								
TOTAL	46	250	2	2	1	1	1	1

SCHEDULE
AGGREGATE WEDGE SHOULDER, TYPE B

LOCATION	QUANTITY (TON)
IL. 158	
STA. 233+75 TO STA. 235+50 (N.B./E. & W.)	15.5
STA. 235+50 TO STA. 240+11.6 (N.B./S.B., E. & W.)	81.8
STA. 240+11.6 TO STA. 245+60 (N.B./E. & S.B./W.)	50.9
STA. 235+61.45 TO STA. 240+11.82 (N.B./W., S.B./W.)	110.5
STA. 246+77 TO STA. 248+00 (N.B./E. & S.B./W.)	13.1
STA. 248+00 TO STA. 248+25 (N.B./E.)	1.1
SEIBERT RD.	
STA. 1110+00 TO STA. 1114+24 (N. & S.)	37.7
STA. 1116+87 TO STA. 1119+50 (N. & S.)	22.9
TOTAL	334

SCHEDULE
COMB. CONC. CURB & GUTTER, TY. B-6.24

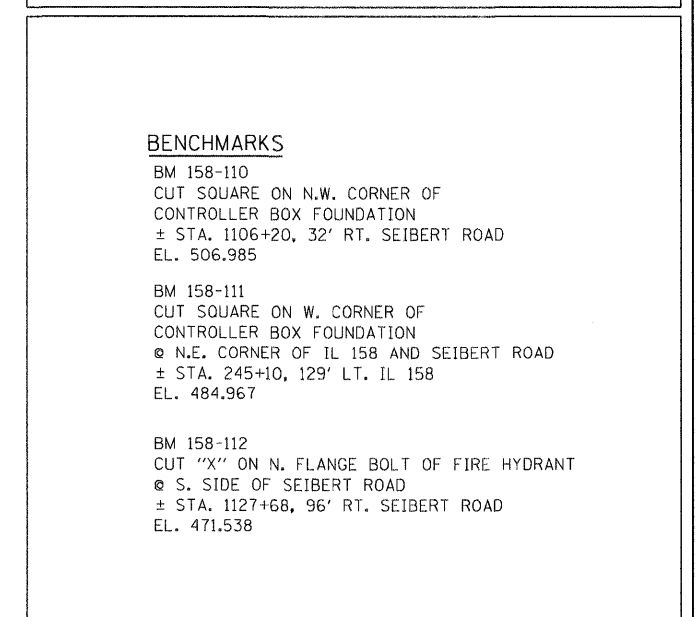
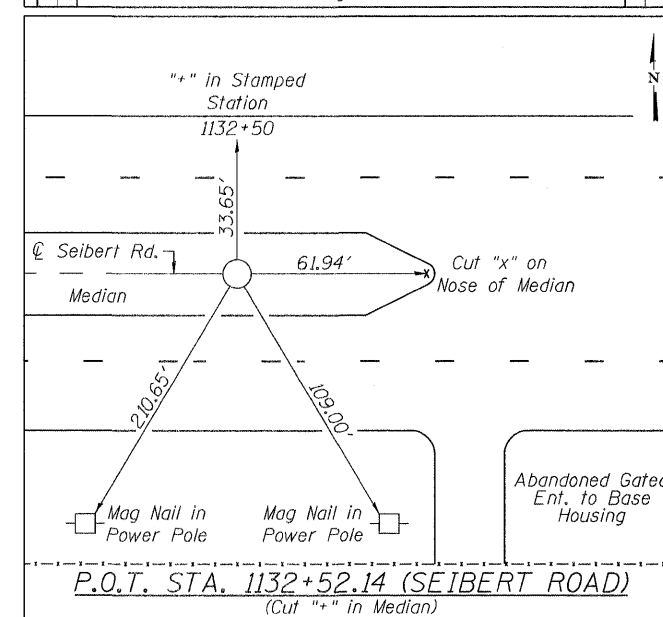
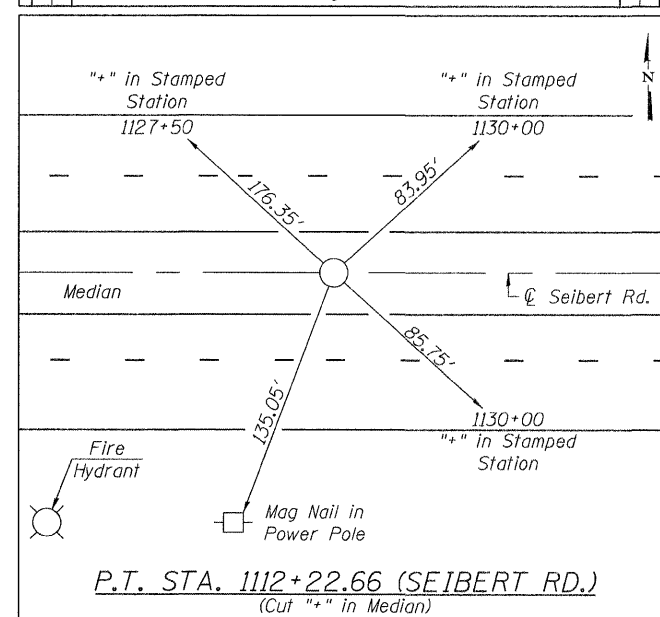
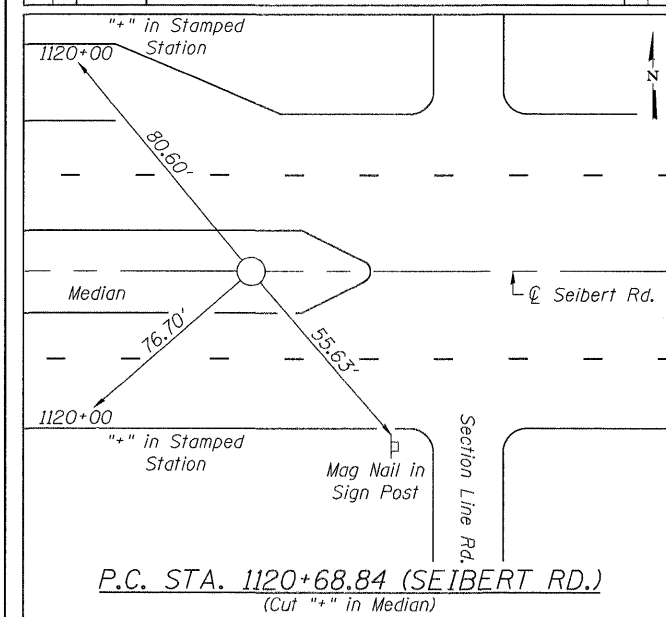
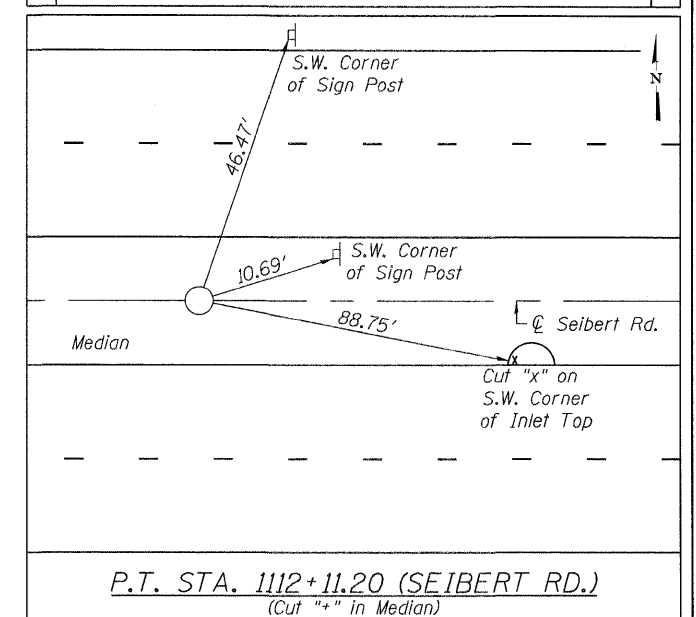
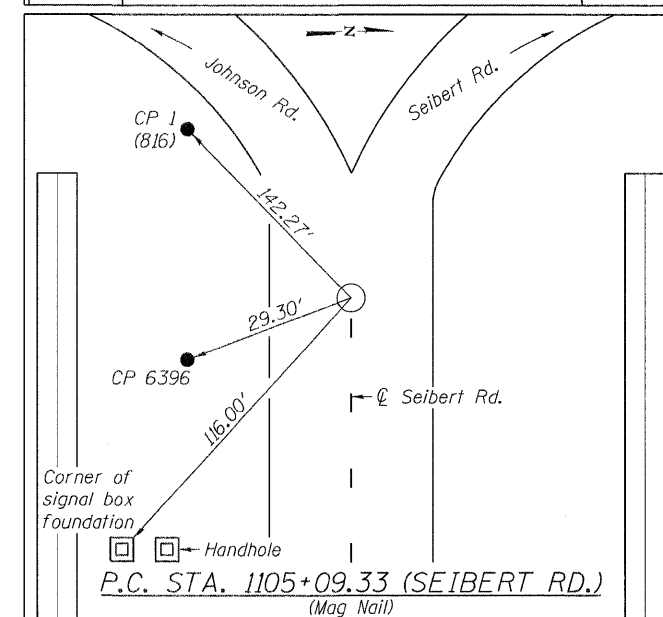
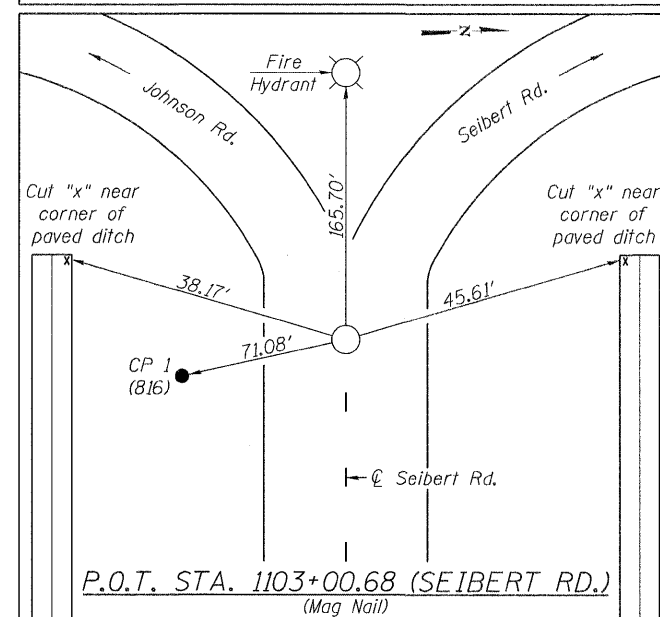
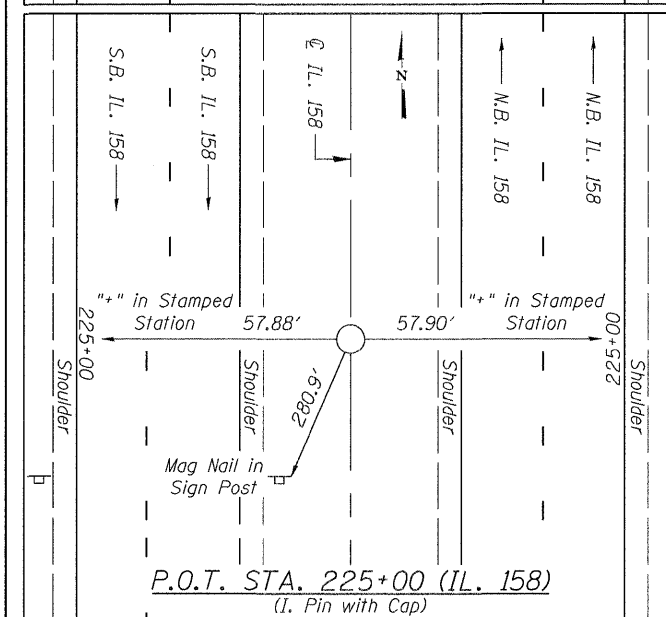
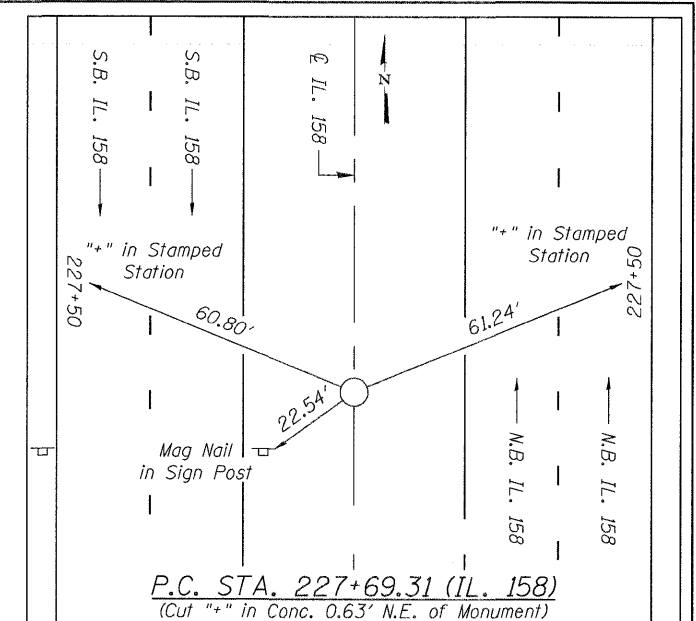
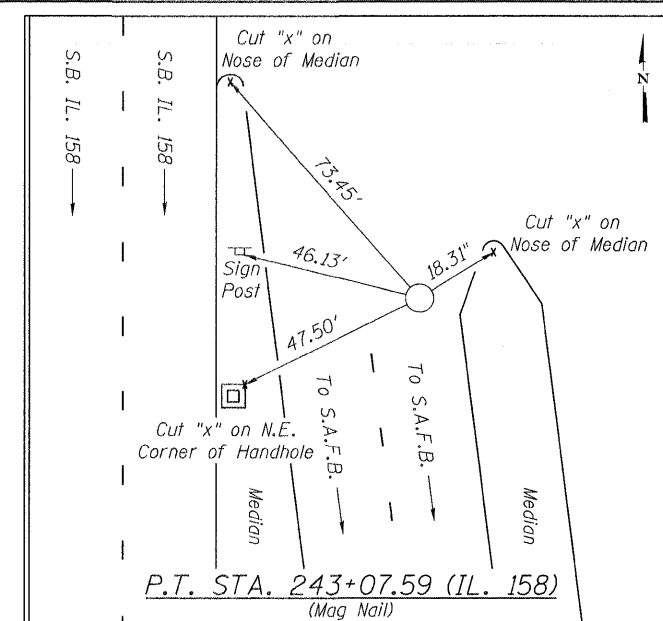
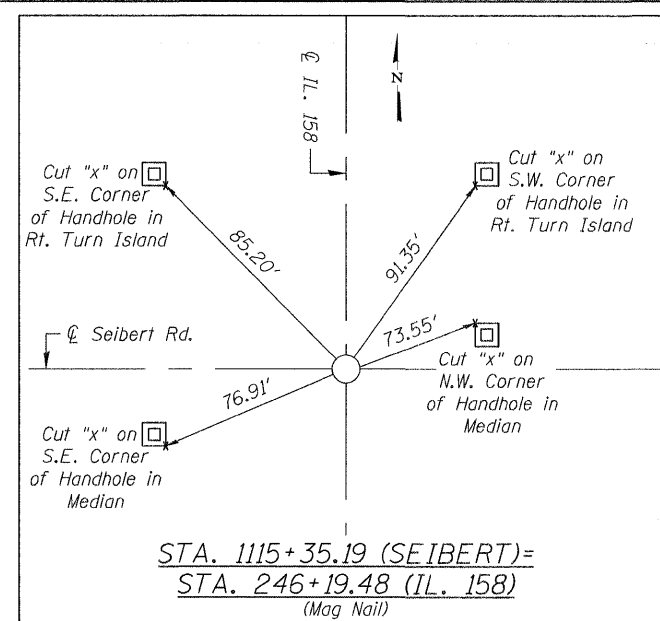
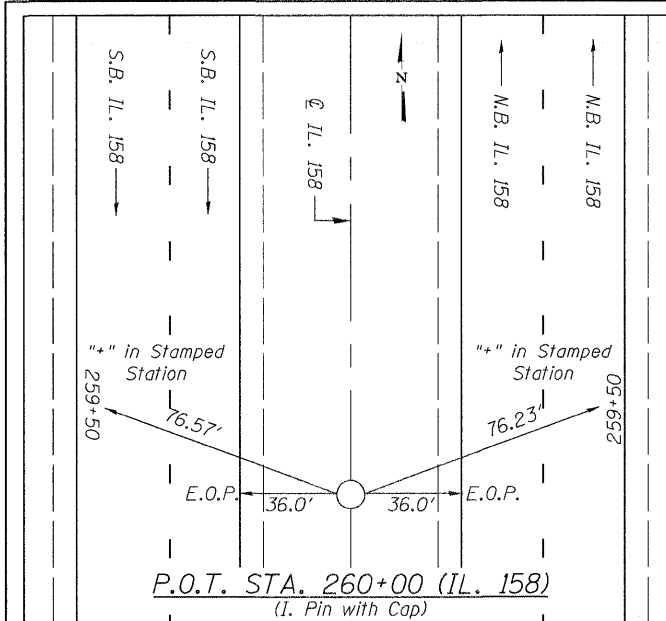
LOCATION	QUANTITY (FOOT)
STA. 245+00 TO STA. 245+76.8	75
TOTAL	75

SCHEDULE
CONC. MEDIAN, TY. SB-6.24

LOCATION	QUANTITY (SQ. FT.)
STA. 240+11.8 TO STA. 245+56.8	9370
STA. 1110+14.4 TO STA. 1114+68	4298
STA. 1114+43.2 TO STA. 1114+69.3 (N.W.)	384
STA. 1114+46.6 TO STA. 1114+72 (S.W.)	387
STA. 1116+01 TO STA. 1116+44 (S.E.)	984
STA. 1116+00 TO STA. 1119+38.6 (CEN. MED.)	3941
TOTAL	19364

SCHEDULE
SURFACE REMOVAL - BUTT JOINT

LOCATION	HMA (SQ. YD.)	PCC (SQ. YD.)
STA. 233+75 TO STA. 234+25 (N.B.)	47	133.5
STA. 235+50 TO STA. 236+00 (S.B.)	14	133.5
TOTAL	61	267



BENCHMARKS

BM 158-110
CUT SQUARE ON N.W. CORNER OF
CONTROLLER BOX FOUNDATION
± STA. 1106+20, 32' RT. SEIBERT ROAD
EL. 506.985

BM 158-111
CUT SQUARE ON W. CORNER OF
CONTROLLER BOX FOUNDATION
± N.E. CORNER OF IL 158 AND SEIBERT ROAD
± STA. 245+10, 129' LT. IL 158
EL. 484.967

BM 158-112
CUT "X" ON N. FLANGE BOLT OF FIRE HYDRANT
± S. SIDE OF SEIBERT ROAD
± STA. 1127+68, 96' RT. SEIBERT ROAD
EL. 471.538

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	ALIGNMENT, TIES & BENCHMARKS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\$FILEL\$		DRAWN -	REVISED -		SCALE: NONE		674	410-1-N	ST. CLAIR	58	10
		CHECKED -	REVISED -		SHEET NO. 10 OF 58 SHEETS						
		DATE -	REVISED -		STA. TO STA.						
							FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
							CONTRACT NO. 76C63				

LEGEND

- SIGN 1. -

ROAD
CONSTRUCTION
1 MILE

(W20-1103(O)-48)

SIGN 2. -

ROAD
CONSTRUCTION
AHEAD

(W20-1103(O)-48)

SIGN 3. -

↑

45
MPH

W1-4R(O)-48

W13-1(24X24)

SIGN 4. -

↑

45
MPH

W1-4L(O)-48

W13-1(24X24)
- SIGN 5. -

WORKERS

W21-1110(O)-48

NOTE: ONLY USED WHEN WORKERS
ARE PRESENT.

SIGN 6. -

WORK
ZONE

SPEED
LIMIT

45

BEGINS

\$XXXFINE
MINIMUM

W2-1115(O)-3618

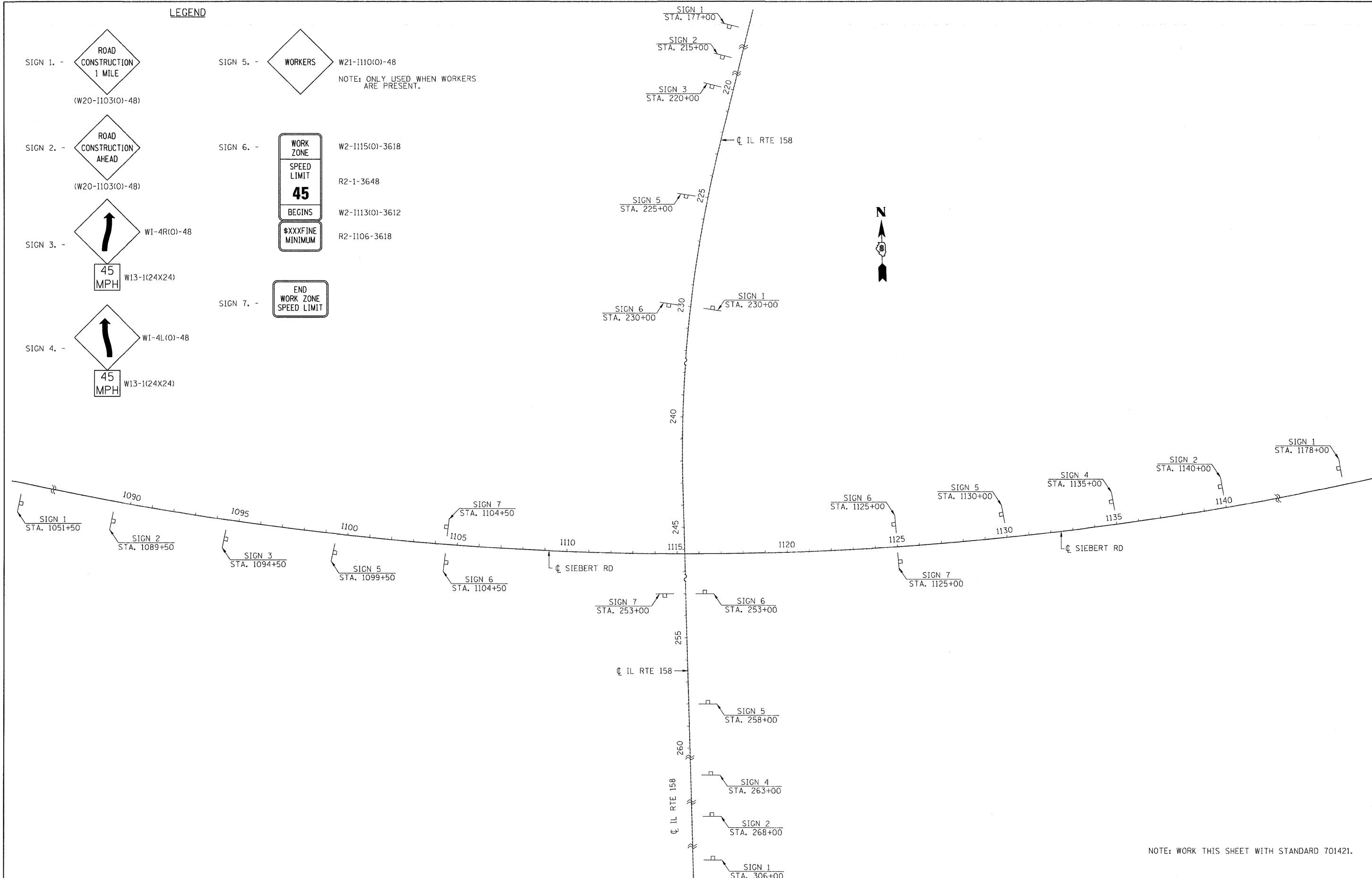
R2-1-3648

W2-1113(O)-3612

R2-1106-3618

SIGN 7. -

END
WORK ZONE
SPEED LIMIT



NOTE: WORK THIS SHEET WITH STANDARD 701421.

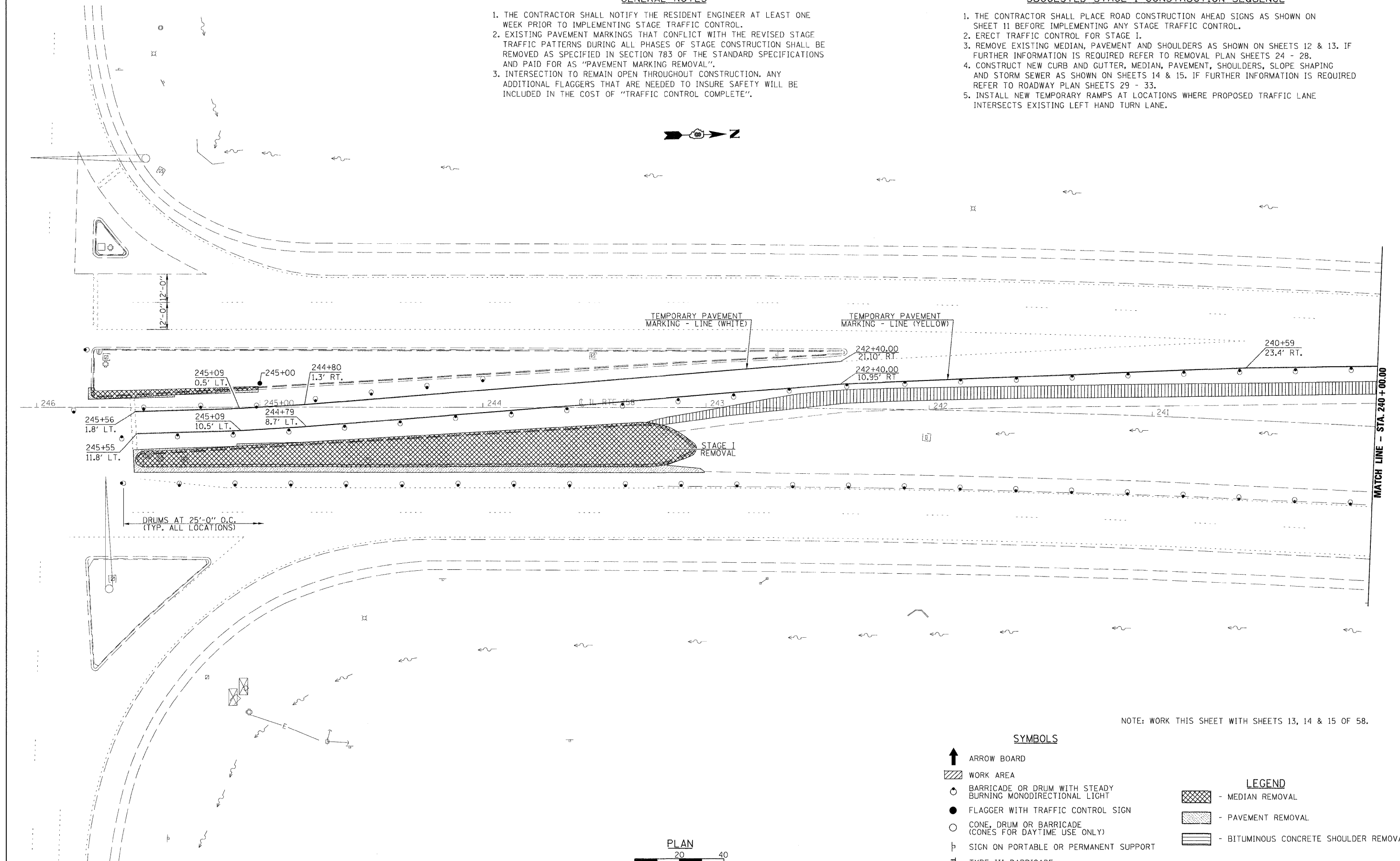
FILE NAME = \$FILEL\$	USER NAME = \$USER\$	DESIGNED -	REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8083 IL Design Firm No. 184-001907	STAGE CONSTRUCTION SIGNING PLAN		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -				674	410-1-N	ST. CLAIR	58	11
		CHECKED -	REVISED -		SCALE: NONE		SHEET NO. 11 OF 58 SHEETS		STA. TO STA.		FED. ROAD DIST. NO.
		DATE -	REVISED -								ILLINOIS FED. AID PROJECT

GENERAL NOTES

1. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AT LEAST ONE WEEK PRIOR TO IMPLEMENTING STAGE TRAFFIC CONTROL.
2. EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE REVISED STAGE TRAFFIC PATTERNS DURING ALL PHASES OF STAGE CONSTRUCTION SHALL BE REMOVED AS SPECIFIED IN SECTION 783 OF THE STANDARD SPECIFICATIONS AND PAID FOR AS "PAVEMENT MARKING REMOVAL".
3. INTERSECTION TO REMAIN OPEN THROUGHOUT CONSTRUCTION. ANY ADDITIONAL FLAGGERS THAT ARE NEEDED TO INSURE SAFETY WILL BE INCLUDED IN THE COST OF "TRAFFIC CONTROL COMPLETE".

SUGGESTED STAGE I CONSTRUCTION SEQUENCE

1. THE CONTRACTOR SHALL PLACE ROAD CONSTRUCTION AHEAD SIGNS AS SHOWN ON SHEET 11 BEFORE IMPLEMENTING ANY STAGE TRAFFIC CONTROL.
2. ERECT TRAFFIC CONTROL FOR STAGE 1.
3. REMOVE EXISTING MEDIAN, PAVEMENT AND SHOULDERS AS SHOWN ON SHEETS 12 & 13. IF FURTHER INFORMATION IS REQUIRED REFER TO REMOVAL PLAN SHEETS 24 - 28.
4. CONSTRUCT NEW CURB AND GUTTER, MEDIAN, PAVEMENT, SHOULDERS, SLOPE SHAPING AND STORM SEWER AS SHOWN ON SHEETS 14 & 15. IF FURTHER INFORMATION IS REQUIRED REFER TO ROADWAY PLAN SHEETS 29 - 33.
5. INSTALL NEW TEMPORARY RAMP AT LOCATIONS WHERE PROPOSED TRAFFIC LANE INTERSECTS EXISTING LEFT HAND TURN LANE.



DRUMS AT 25'-0" O.C.
(TYP. ALL LOCATIONS)

NOTE: WORK THIS SHEET WITH SHEETS 13, 14 & 15 OF 58.

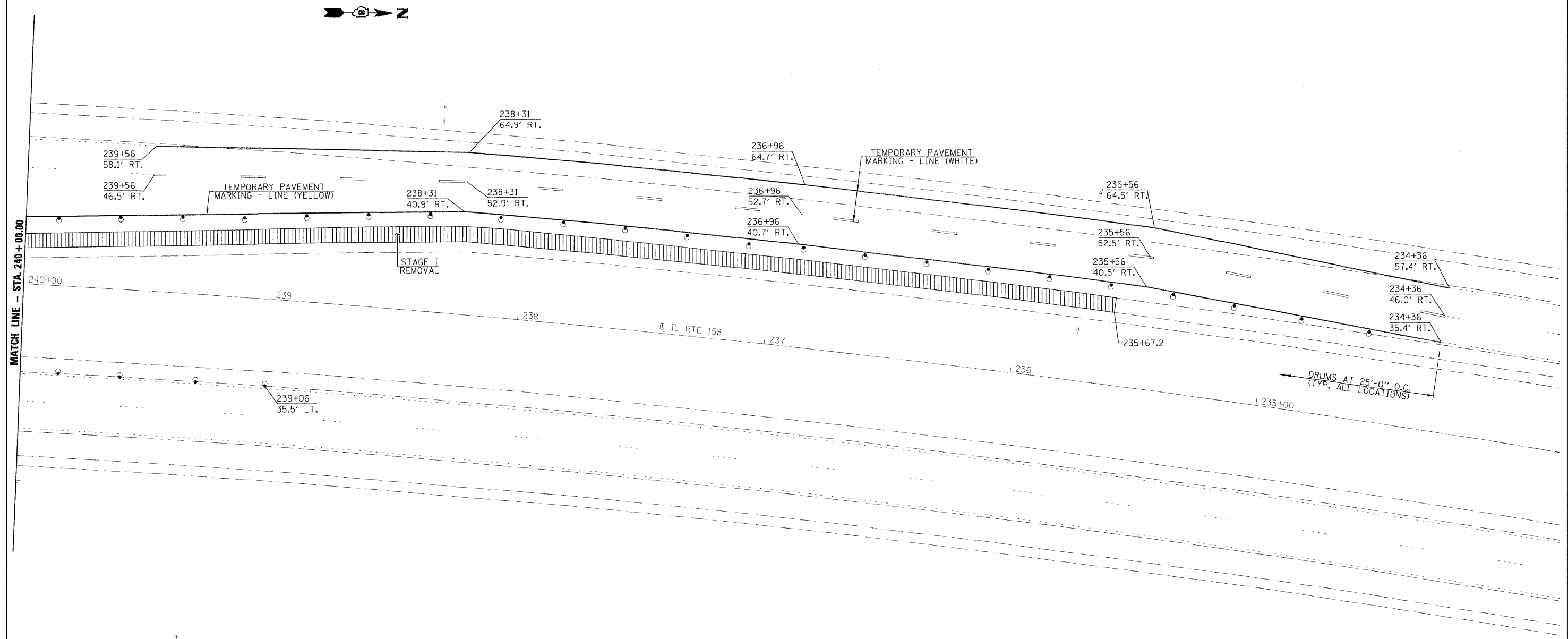
SYMBOLS

- ↑ ARROW BOARD
- ▨ WORK AREA
- BARRICADE OR DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL SIGN
- CONE, DRUM OR BARRICADE (CONES FOR DAYTIME USE ONLY)
- └ SIGN ON PORTABLE OR PERMANENT SUPPORT
- └ TYPE III BARRICADE

LEGEND

- ▨ - MEDIAN REMOVAL
- ▨ - PAVEMENT REMOVAL
- ▨ - BITUMINOUS CONCRETE SHOULDER REMOVAL

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED -	REVISED -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	STAGE I TRAFFIC CONTROL			F.A.P. RTE. 674	SECTION 410-1-N	COUNTY ST. CLAIR	TOTAL SHEETS 58	SHEET NO. 12
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -		SCALE: 1" = 20'	SHEET NO. 12 OF 58 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 76C63	
	PLOT DATE = #DATE#	DATE -	REVISED -									



PLAN

SCALE: 1" = 20'

SYMBOLS

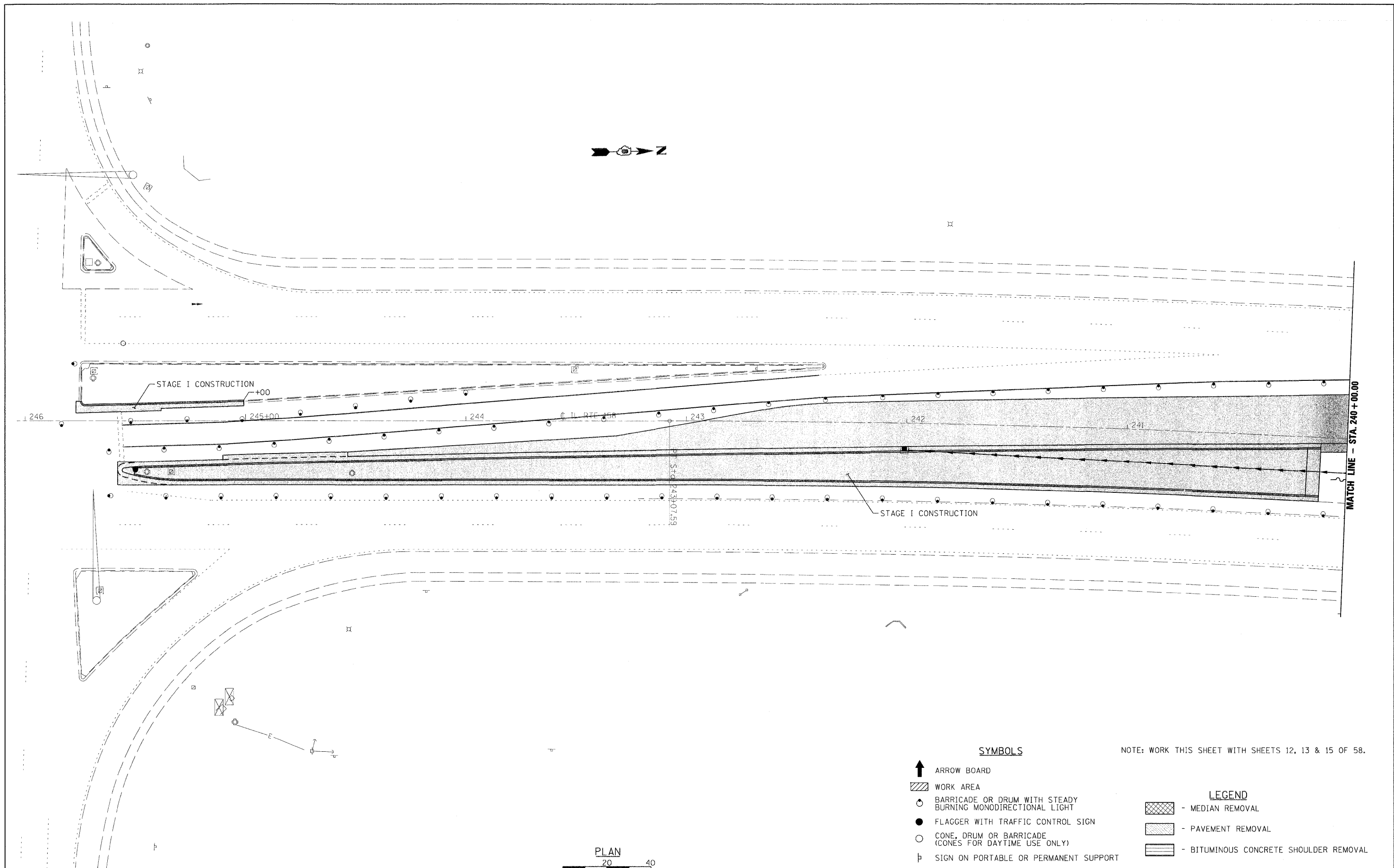
- ↑ ARROW BOARD
- ▨ WORK AREA
- BARRICADE OR DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL SIGN
- CONE, DRUM OR BARRICADE (CONES FOR DAYTIME USE ONLY)
- ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT
- ⌈ TYPE III BARRICADE

LEGEND

- ▨ - MEDIAN REMOVAL
- ▨ - PAVEMENT REMOVAL
- ▨ - BITUMINOUS CONCRETE SHOULDER REMOVAL

NOTE: WORK THIS SHEET WITH SHEETS 12, 14 & 15 OF 58.

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL. Design Firm No. 184-001907	STAGE I TRAFFIC CONTROL				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\$FILE\$		DRAWN -	REVISED -						674	410-1-N	ST. CLAIR	58	13
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -		CONTRACT NO. 76C63								
	PLOT DATE = \$DATE\$	DATE -	REVISED -										
					SCALE: 1" = 20'	SHEET NO. 13 OF 58 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



SYMBOLS

- ↑ ARROW BOARD
- ▨ WORK AREA
- BARRICADE OR DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL SIGN
- CONE, DRUM OR BARRICADE (CONES FOR DAYTIME USE ONLY)
- ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT
- ⌈ TYPE III BARRICADE

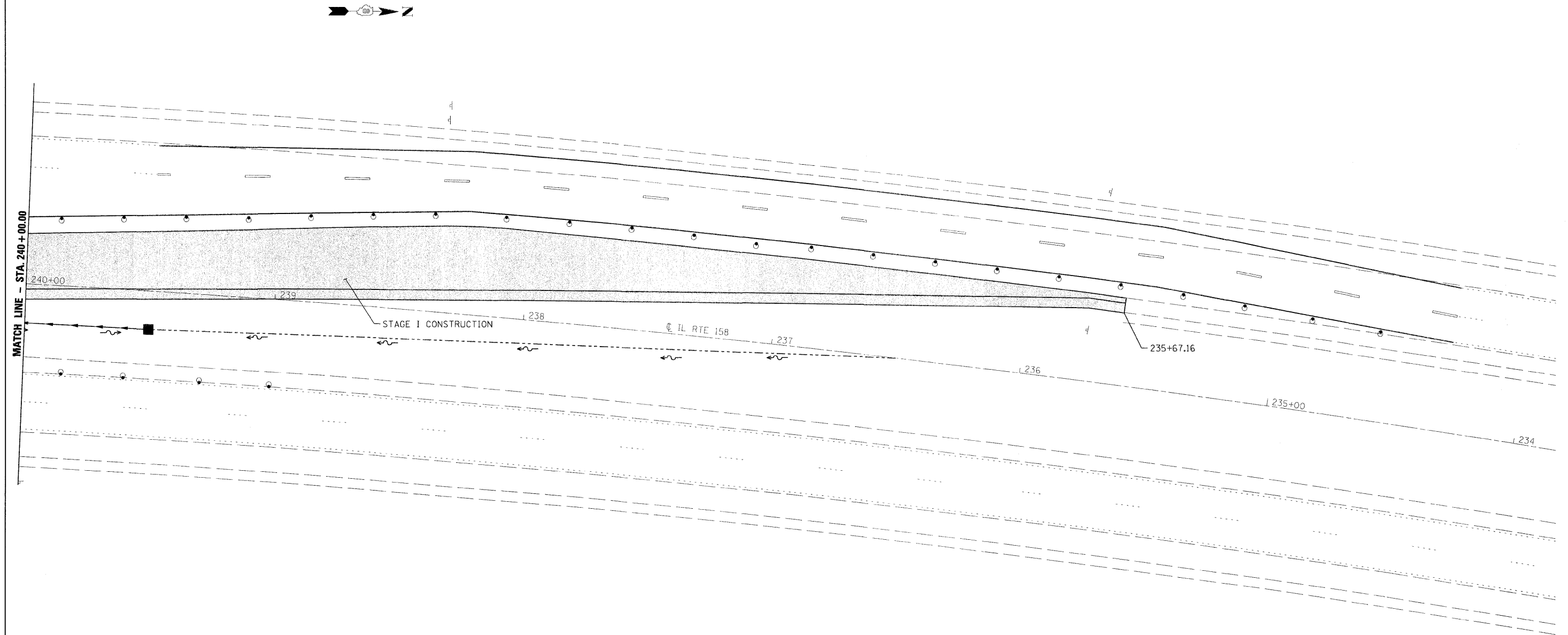
LEGEND

- ▨ - MEDIAN REMOVAL
- ▨ - PAVEMENT REMOVAL
- ▨ - BITUMINOUS CONCRETE SHOULDER REMOVAL

NOTE: WORK THIS SHEET WITH SHEETS 12, 13 & 15 OF 58.

PLAN
20 40
SCALE: 1" = 20'

FILE NAME = \$FILEL\$	USER NAME = \$USER\$	DESIGNED -	REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL. Design Firm No. 184-001907	STAGE I CONSTRUCTION			F.A.P. RTE. 674	SECTION 410-1-N	COUNTY ST. CLAIR	TOTAL SHEETS 58	SHEET NO. 14
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -		SCALE: 1" = 20'	SHEET NO. 14 OF 58 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 76C63	
	PLOT DATE = \$DATE\$	DATE -	REVISED -									



SYMBOLS

- ↑ ARROW BOARD
- ▨ WORK AREA
- BARRICADE OR DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL SIGN
- CONE, DRUM OR BARRICADE (CONES FOR DAYTIME USE ONLY)
- ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT
- ⌈ TYPE III BARRICADE

NOTE: WORK THIS SHEET WITH SHEETS 12, 13 & 14 OF 58.

LEGEND

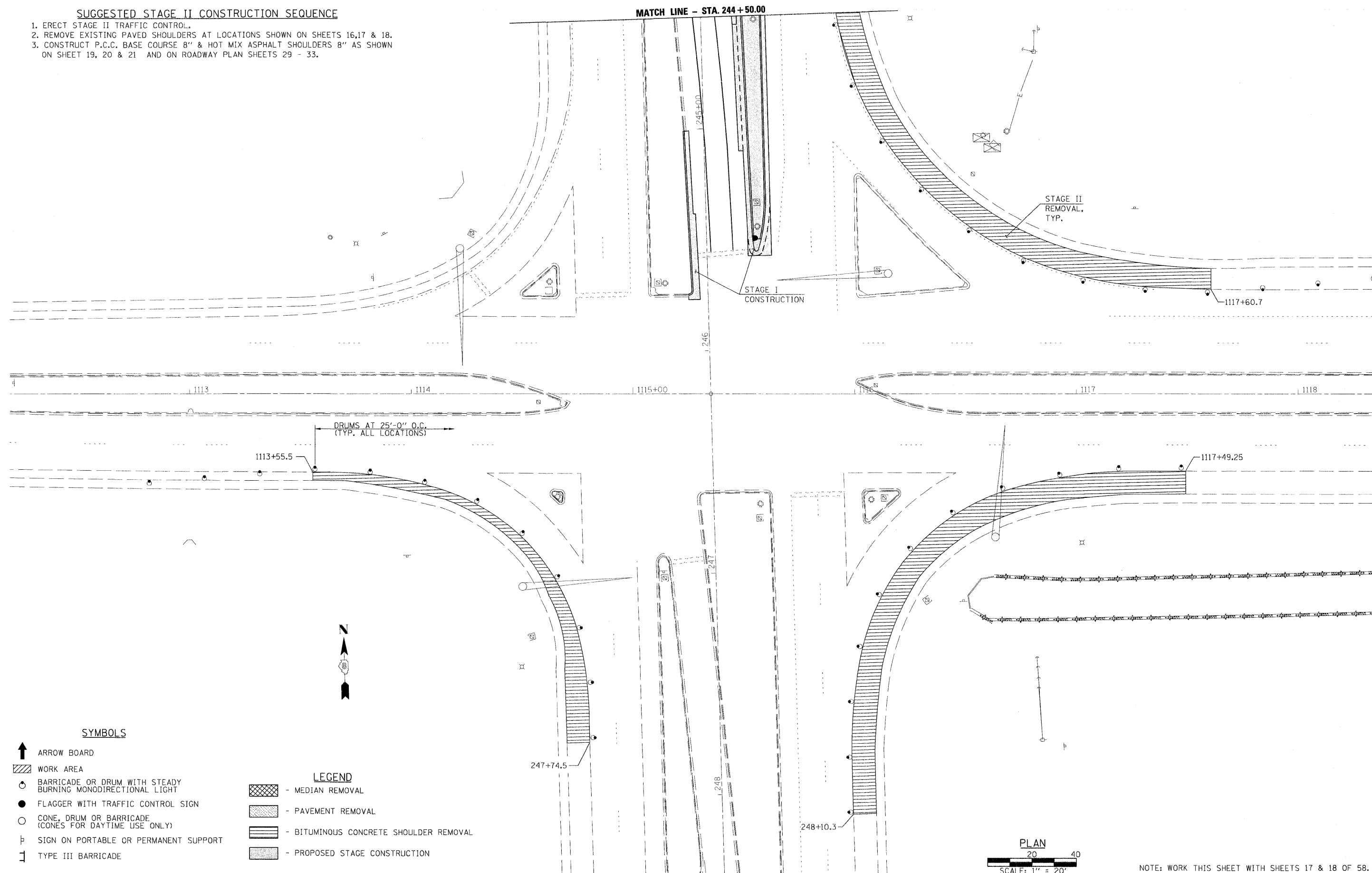
- ▨ - MEDIAN REMOVAL
- ▨ - PAVEMENT REMOVAL
- ▨ - BITUMINOUS CONCRETE SHOULDER REMOVAL
- ▨ - PROPOSED STAGE CONSTRUCTION

PLAN
20 40
SCALE: 1" = 20'

FILE NAME = \$FILEL\$	USER NAME = \$USER\$	DESIGNED - DRAWN -	REVISED - REVISED -		Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	STAGE I CONSTRUCTION				F.A.P. RTE. 674	SECTION 410-1-N	COUNTY ST. CLAIR	TOTAL SHEETS 58	SHEET NO. 15
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -							CONTRACT NO. 76C63				
	PLOT DATE = \$DATE\$	DATE -	REVISED -			SCALE: 1" = 20'	SHEET NO. 15 OF 58 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SUGGESTED STAGE II CONSTRUCTION SEQUENCE

1. ERECT STAGE II TRAFFIC CONTROL.
2. REMOVE EXISTING PAVED SHOULDERS AT LOCATIONS SHOWN ON SHEETS 16,17 & 18.
3. CONSTRUCT P.C.C. BASE COURSE 8" & HOT MIX ASPHALT SHOULDERS 8" AS SHOWN ON SHEET 19, 20 & 21 AND ON ROADWAY PLAN SHEETS 29 - 33.



SYMBOLS

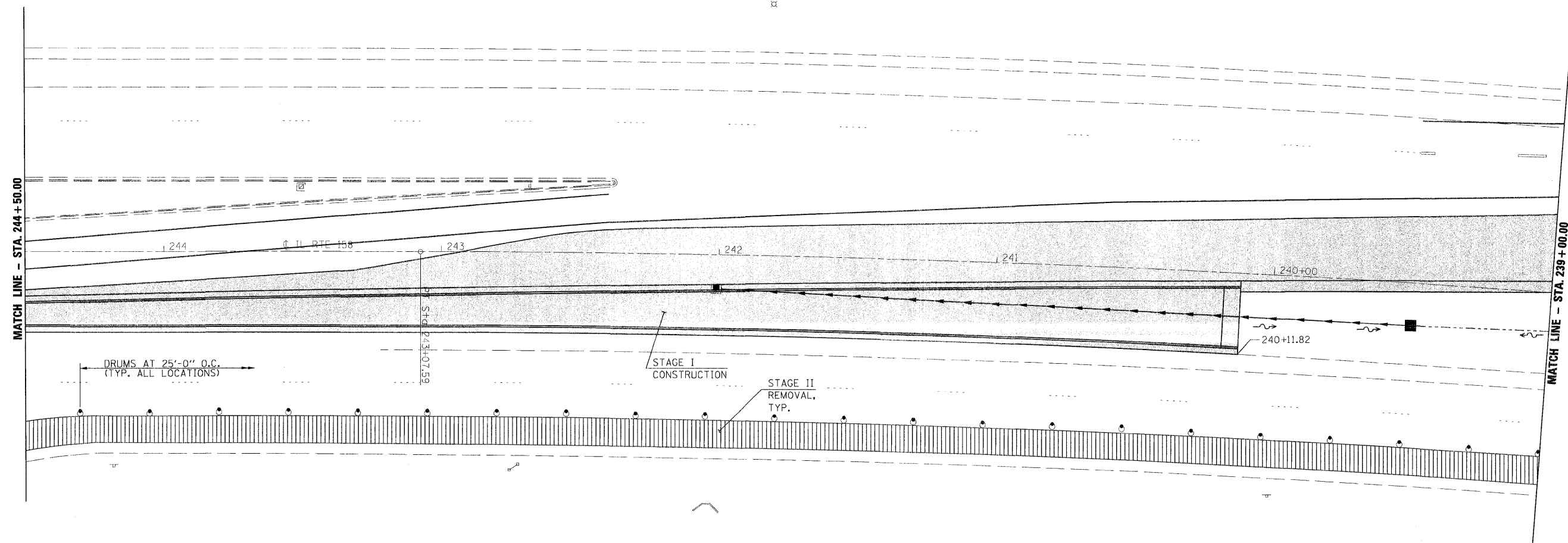
- ↑ ARROW BOARD
- ▨ WORK AREA
- BARRICADE OR DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL SIGN
- CONE, DRUM OR BARRICADE (CONES FOR DAYTIME USE ONLY)
- ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT
- ⌈ TYPE III BARRICADE

LEGEND

- ▨ - MEDIAN REMOVAL
- ▨ - PAVEMENT REMOVAL
- ▨ - BITUMINOUS CONCRETE SHOULDER REMOVAL
- ▨ - PROPOSED STAGE CONSTRUCTION

NOTE: WORK THIS SHEET WITH SHEETS 17 & 18 OF 58.

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -		Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	STAGE II TRAFFIC CONTROL				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\$FILEL\$		DRAWN -	REVISED -			674	410-1-N	ST. CLAIR	58	16				
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	PLOT DATE = \$DATE\$	DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								
						SCALE: 1" = 20'	SHEET NO. 16 OF 58 SHEETS	STA. _____	TO STA. _____					



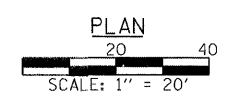
SYMBOLS

- ↑ ARROW BOARD
- ▨ WORK AREA
- BARRICADE OR DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL SIGN
- CONE, DRUM OR BARRICADE (CONES FOR DAYTIME USE ONLY)
- ⌋ SIGN ON PORTABLE OR PERMANENT SUPPORT
- ⌋ TYPE III BARRICADE

LEGEND

- ▨ - MEDIAN REMOVAL
- ▨ - PAVEMENT REMOVAL
- ▨ - BITUMINOUS CONCRETE SHOULDER REMOVAL

NOTE: WORK THIS SHEET WITH SHEETS 16 & 18 OF 58.



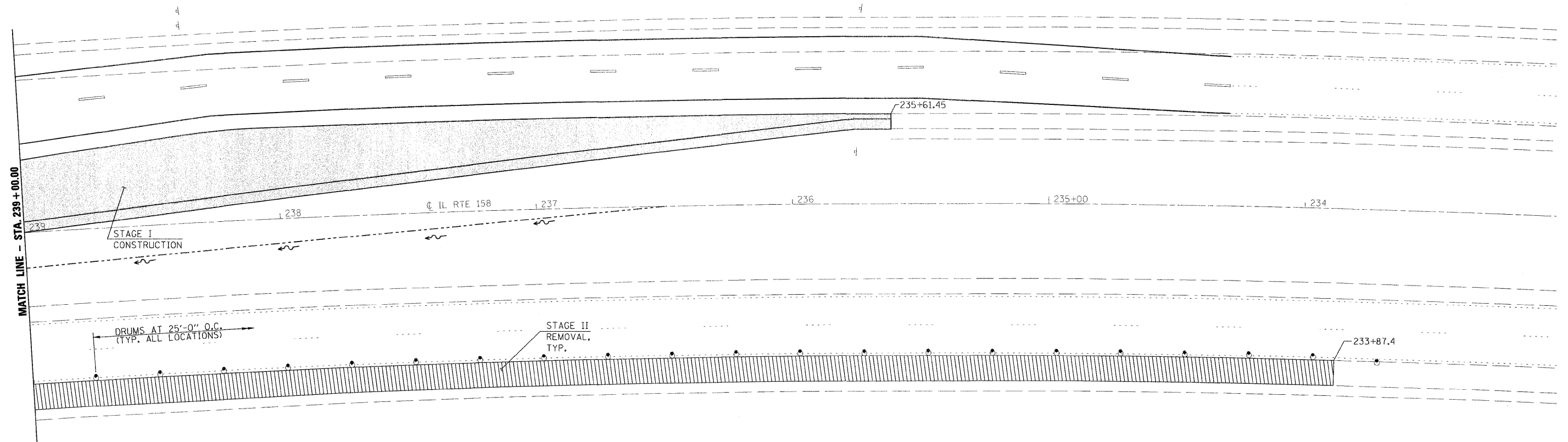
Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL Design Firm
No. 184-001907

STAGE II TRAFFIC CONTROL

SCALE: 1" = 20' SHEET NO. 17 OF 58 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	410-1-N	ST. CLAIR	58	17
CONTRACT NO. 76C63				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -
#FILE#		DRAWN -	REVISED -
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -
	PLOT DATE = #DATE#	DATE -	REVISED -



PLAN
20 40
SCALE: 1" = 20'

SYMBOLS

- ↑ ARROW BOARD
- ▨ WORK AREA
- BARRICADE OR DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL SIGN
- CONE, DRUM OR BARRICADE (CONES FOR DAYTIME USE ONLY)
- ⌋ SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE III BARRICADE

NOTE: WORK THIS SHEET WITH SHEETS 16 & 17 OF 58.

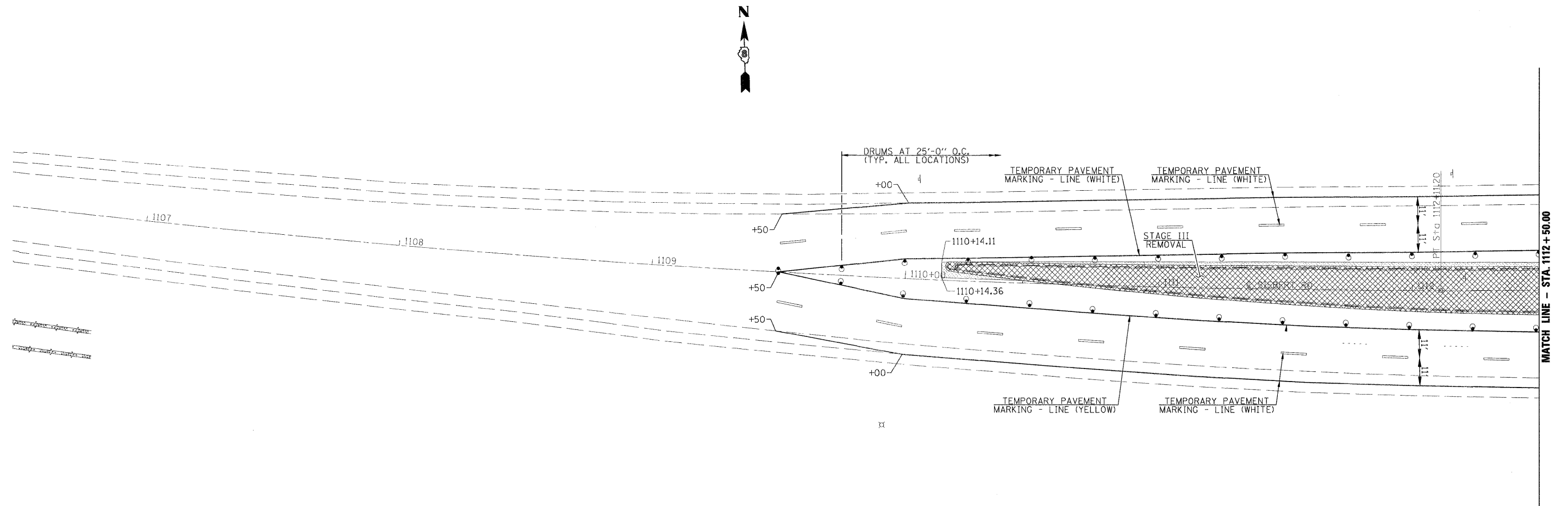
LEGEND

- ▨ - MEDIAN REMOVAL
- ▨ - PAVEMENT REMOVAL
- ▨ - BITUMINOUS CONCRETE SHOULDER REMOVAL

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -		Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL. Design Firm No. 184-001907	STAGE II TRAFFIC CONTROL			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILEL#	PLOT SCALE = #SCALE#	DRAWN -	REVISED -						674	410-1-N	ST. CLAIR	58	18
	PLOT DATE = #DATE#	CHECKED -	REVISED -			SCALE: 1" = 20'	SHEET NO. 18 OF 58 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 76C63	
		DATE -	REVISED -										

SUGGESTED STAGE III CONSTRUCTION SEQUENCE

1. ERECT STAGE III TRAFFIC CONTROL.
2. REMOVE EXISTING MEDIAN AND PAVEMENT AS SHOWN ON SHEETS 19, 20 & 21.
3. CONSTRUCT NEW MEDIAN, PAVEMENT, INLETS AND STORM SEWER AS SHOWN ON SHEET 22 AND ROADWAY PLAN SHEETS 29 - 33.
4. REMOVE STAGE I & III TRAFFIC CONTROL.



SYMBOLS

- ↑ ARROW BOARD
- ▨ WORK AREA
- BARRICADE OR DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL SIGN
- CONE, DRUM OR BARRICADE (CONES FOR DAYTIME USE ONLY)
- ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT
- ⊥ TYPE III BARRICADE

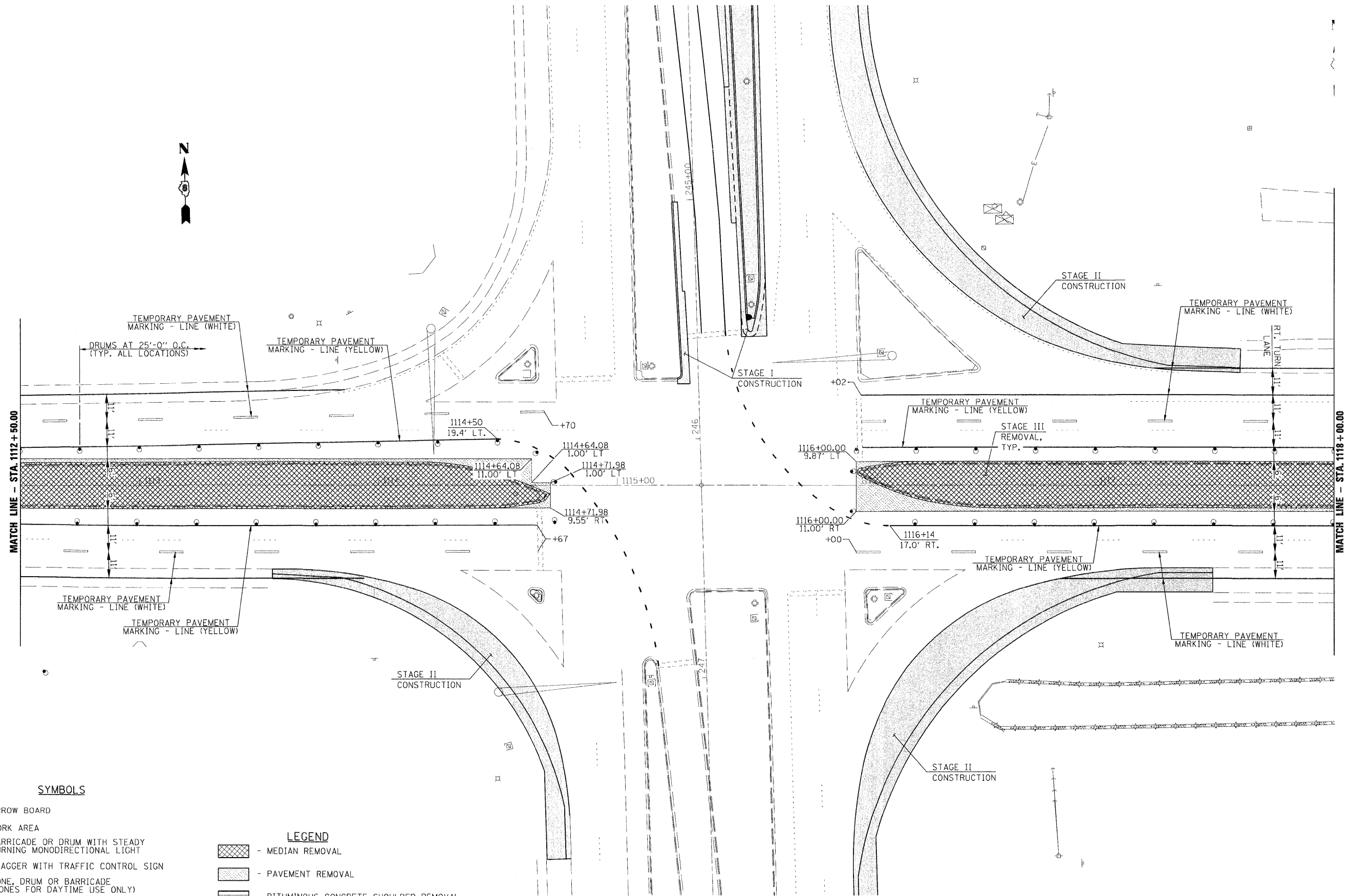
NOTE: WORK THIS SHEET WITH SHEETS 20 & 21 OF 58.

LEGEND

- ▨ - MEDIAN REMOVAL
- ▨ - PAVEMENT REMOVAL
- ▨ - BITUMINOUS CONCRETE SHOULDER REMOVAL

PLAN
20 40
SCALE: 1" = 20'

FILE NAME = \$FILEL\$	USER NAME = \$USER\$	DESIGNED -	REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL. Design Firm No. 184-001907	STAGE III TRAFFIC CONTROL			F.A.P. RTE. 674	SECTION 410-1-N	COUNTY ST. CLAIR	TOTAL SHEETS 58	SHEET NO. 19
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -		SCALE: 1" = 20'	SHEET NO. 19 OF 58 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 76C63
	PLOT DATE = \$DATE\$	DATE -	REVISED -									



SYMBOLS

- ARROW BOARD
- WORK AREA
- BARRICADE OR DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL SIGN
- CONE, DRUM OR BARRICADE (CONES FOR DAYTIME USE ONLY)
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE III BARRICADE

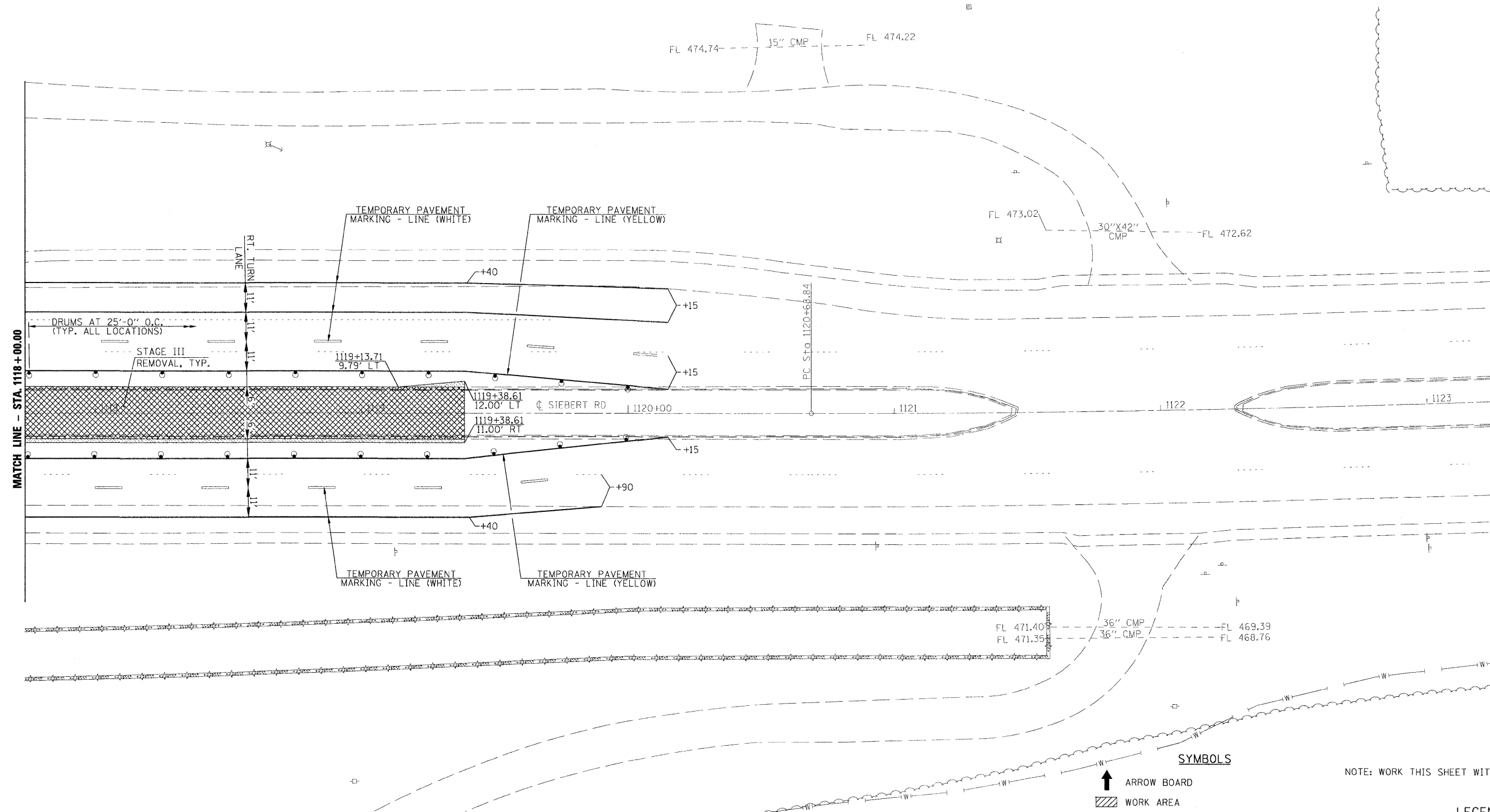
LEGEND

- MEDIAN REMOVAL
- PAVEMENT REMOVAL
- BITUMINOUS CONCRETE SHOULDER REMOVAL

PLAN
20 40
SCALE: 1" = 20'

NOTE: WORK THIS SHEET WITH SHEETS 19 & 21 OF 58.

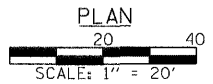
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -		Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	STAGE III TRAFFIC CONTROL				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
\$FILEL\$		DRAWN -	REVISED -				674	410-1-N	ST. CLAIR	58	20				
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -												
	PLOT DATE = \$DATE\$	DATE -	REVISED -												
									CONTRACT NO. 76C63						
									FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						



- SYMBOLS**
- ↑ ARROW BOARD
 - ▨ WORK AREA
 - BARRICADE OR DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT
 - FLAGGER WITH TRAFFIC CONTROL SIGN
 - CONE, DRUM OR BARRICADE (CONES FOR DAYTIME USE ONLY)
 - ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT
 - ⊥ TYPE III BARRICADE

NOTE: WORK THIS SHEET WITH SHEETS 19 & 21 OF 58.

- LEGEND**
- ▨ - MEDIAN REMOVAL
 - ▨ - PAVEMENT REMOVAL
 - ▨ - BITUMINOUS CONCRETE SHOULDER REMOVAL



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Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL Design Firm
No. 184-001907

STAGE III TRAFFIC CONTROL

SCALE: 1" = 20' SHEET NO. 21 OF 58 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	410-1-N	ST. CLAIR	58	21
CONTRACT NO. 76C63				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

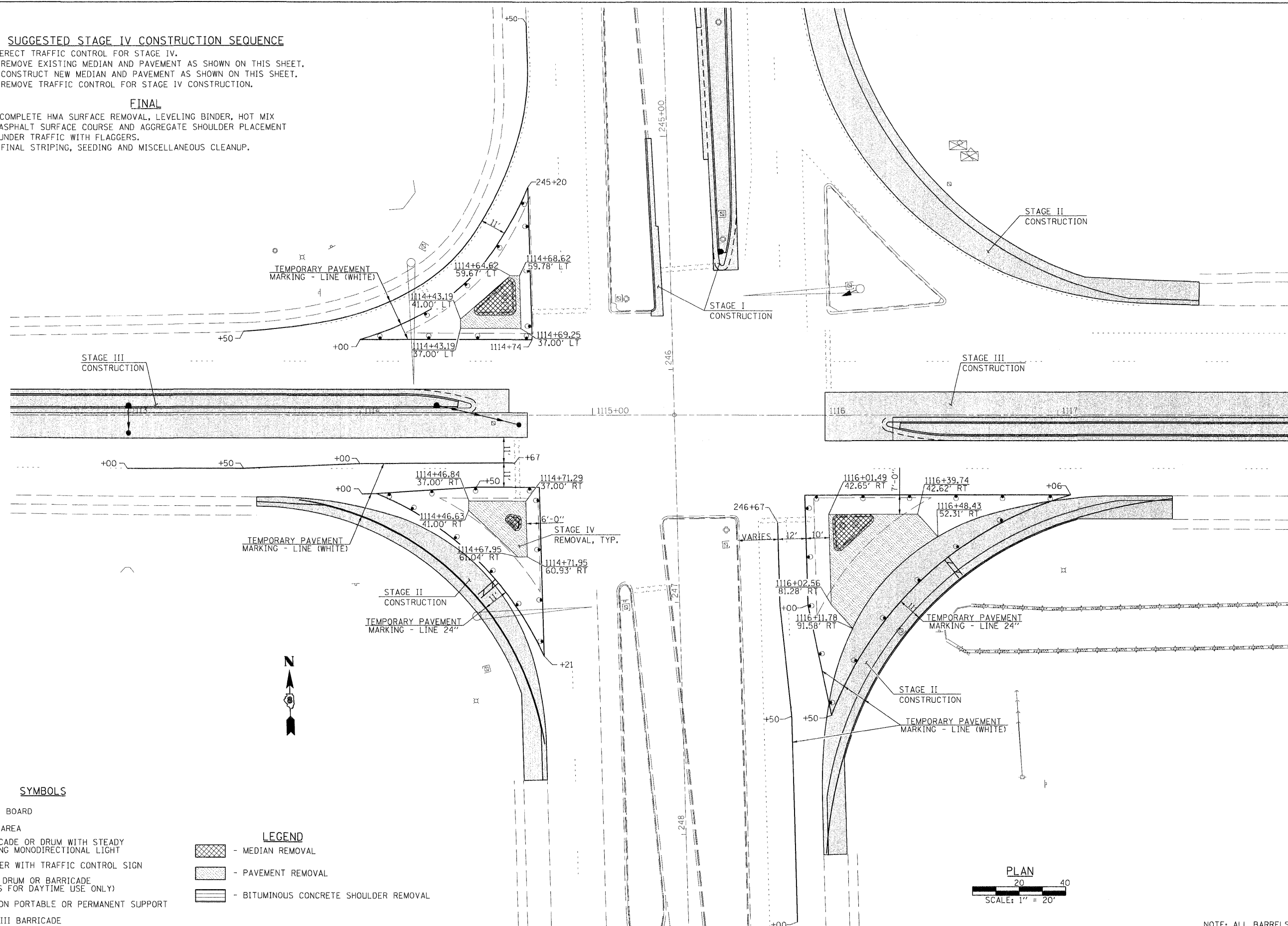
FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -
#FILE#		DRAWN -	REVISED -
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -
	PLOT DATE = #DATE#	DATE -	REVISED -

SUGGESTED STAGE IV CONSTRUCTION SEQUENCE

1. ERECT TRAFFIC CONTROL FOR STAGE IV.
2. REMOVE EXISTING MEDIAN AND PAVEMENT AS SHOWN ON THIS SHEET.
3. CONSTRUCT NEW MEDIAN AND PAVEMENT AS SHOWN ON THIS SHEET.
4. REMOVE TRAFFIC CONTROL FOR STAGE IV CONSTRUCTION.

FINAL

1. COMPLETE HMA SURFACE REMOVAL, LEVELING BINDER, HOT MIX ASPHALT SURFACE COURSE AND AGGREGATE SHOULDER PLACEMENT UNDER TRAFFIC WITH FLAGGERS.
2. FINAL STRIPING, SEEDING AND MISCELLANEOUS CLEANUP.

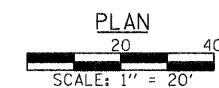


SYMBOLS

- ↑ ARROW BOARD
- ▨ WORK AREA
- BARRICADE OR DRUM WITH STEADY BURNING MONODIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL SIGN
- CONE, DRUM OR BARRICADE (CONES FOR DAYTIME USE ONLY)
- ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT
- ⌂ TYPE III BARRICADE

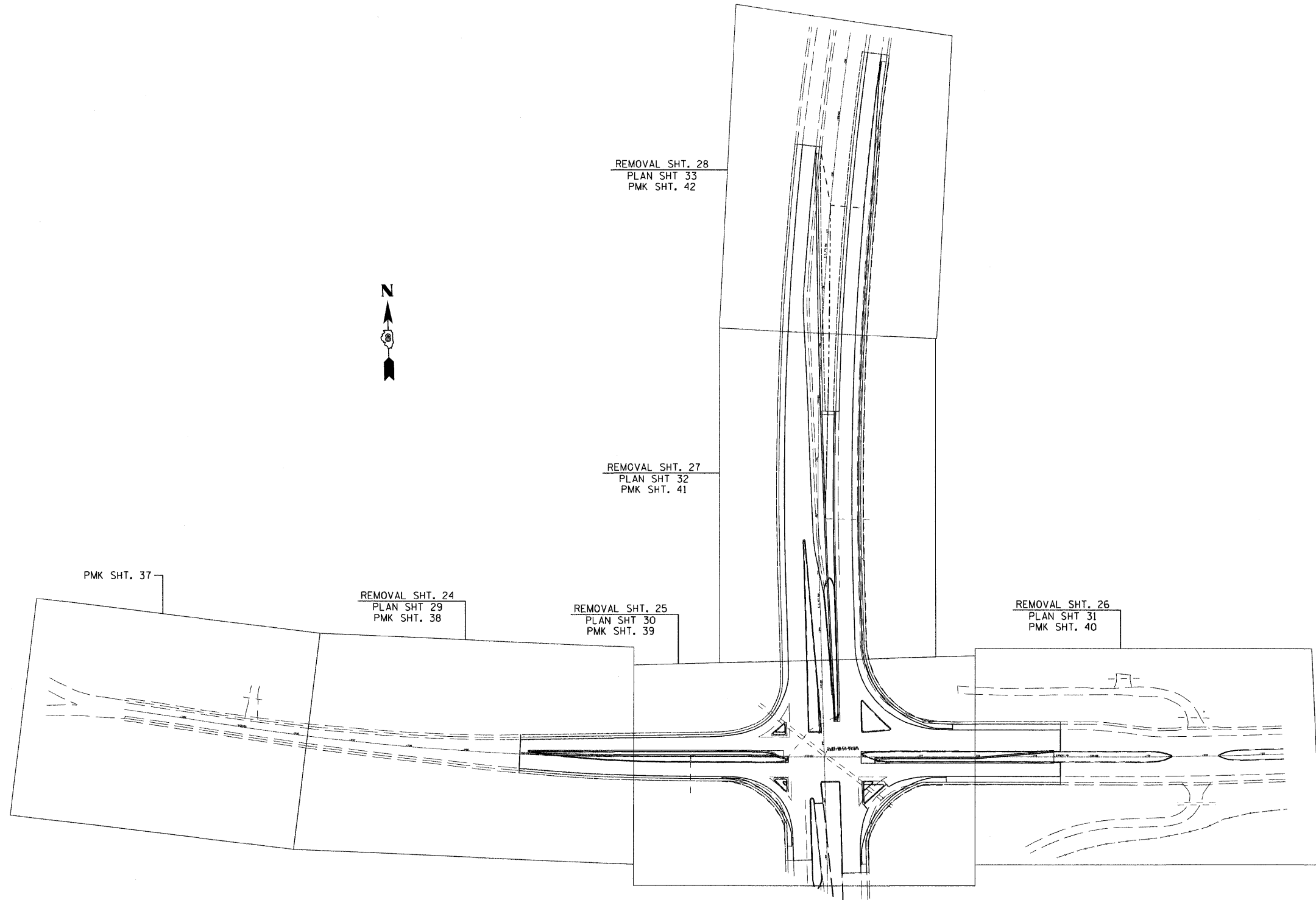
LEGEND

- ▨ - MEDIAN REMOVAL
- ▨ - PAVEMENT REMOVAL
- ▨ - BITUMINOUS CONCRETE SHOULDER REMOVAL



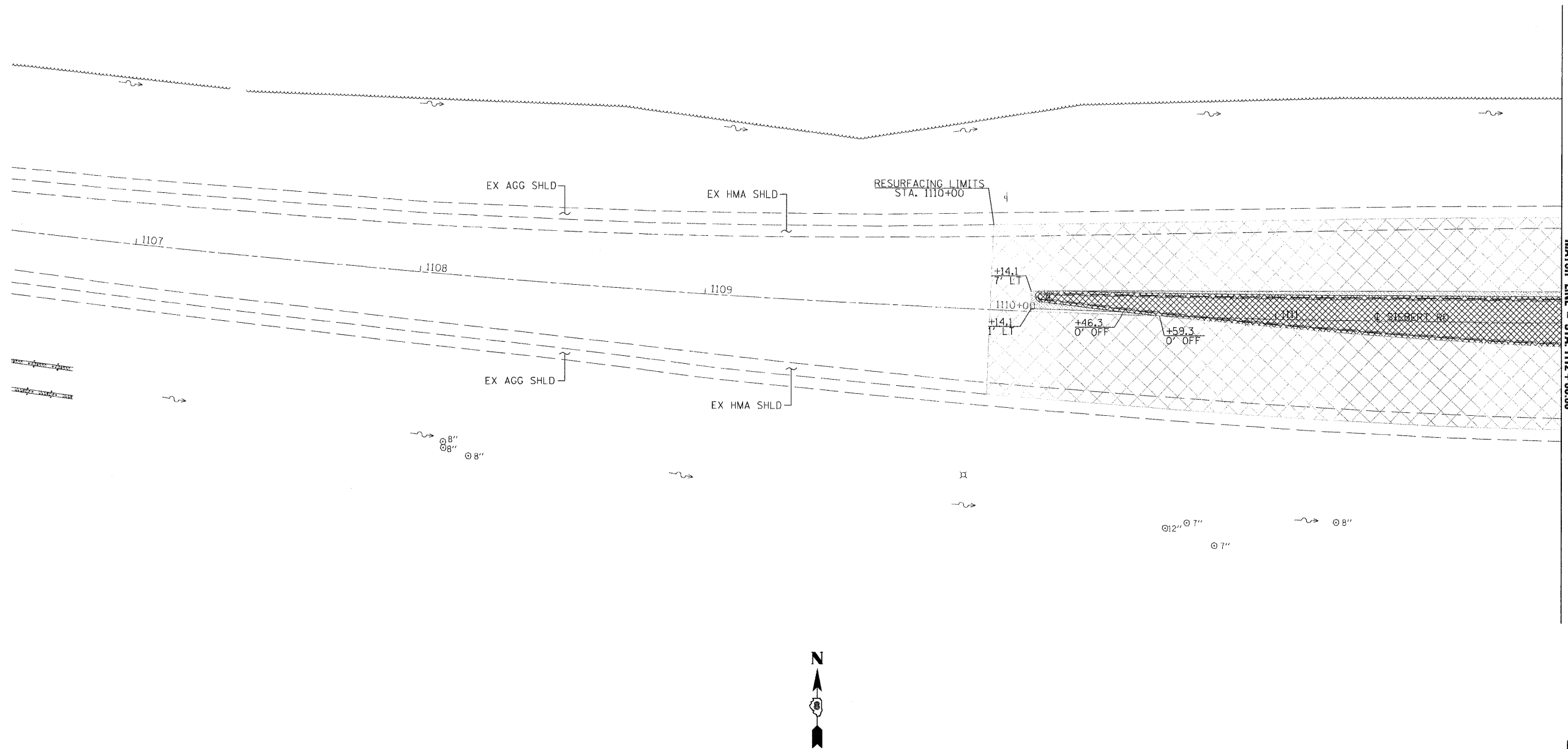
NOTE: ALL BARRELS ARE AT 20' O.C.

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -		Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	STAGE IV TRAFFIC CONTROL				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN -	REVISED -			674	410-1-N	ST. CLAIR	58	22				
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -			CONTRACT NO. 76C63								
	PLOT DATE = #DATE#	DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								
						SCALE: 1" = 20'	SHEET NO. 20 OF 58 SHEETS	STA.	TO STA.					



FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	PLAN SHEET KEY		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\$FILEL\$		DRAWN -	REVISED -				674	410-1-N	ST. CLAIR	58	23
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -		SCALE: 1" = 100'	SHEET NO. 21 OF 58 SHEETS	STA.	TO STA.	CONTRACT NO. 76C63		
	PLOT DATE = \$DATE\$	DATE -	REVISED -						FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

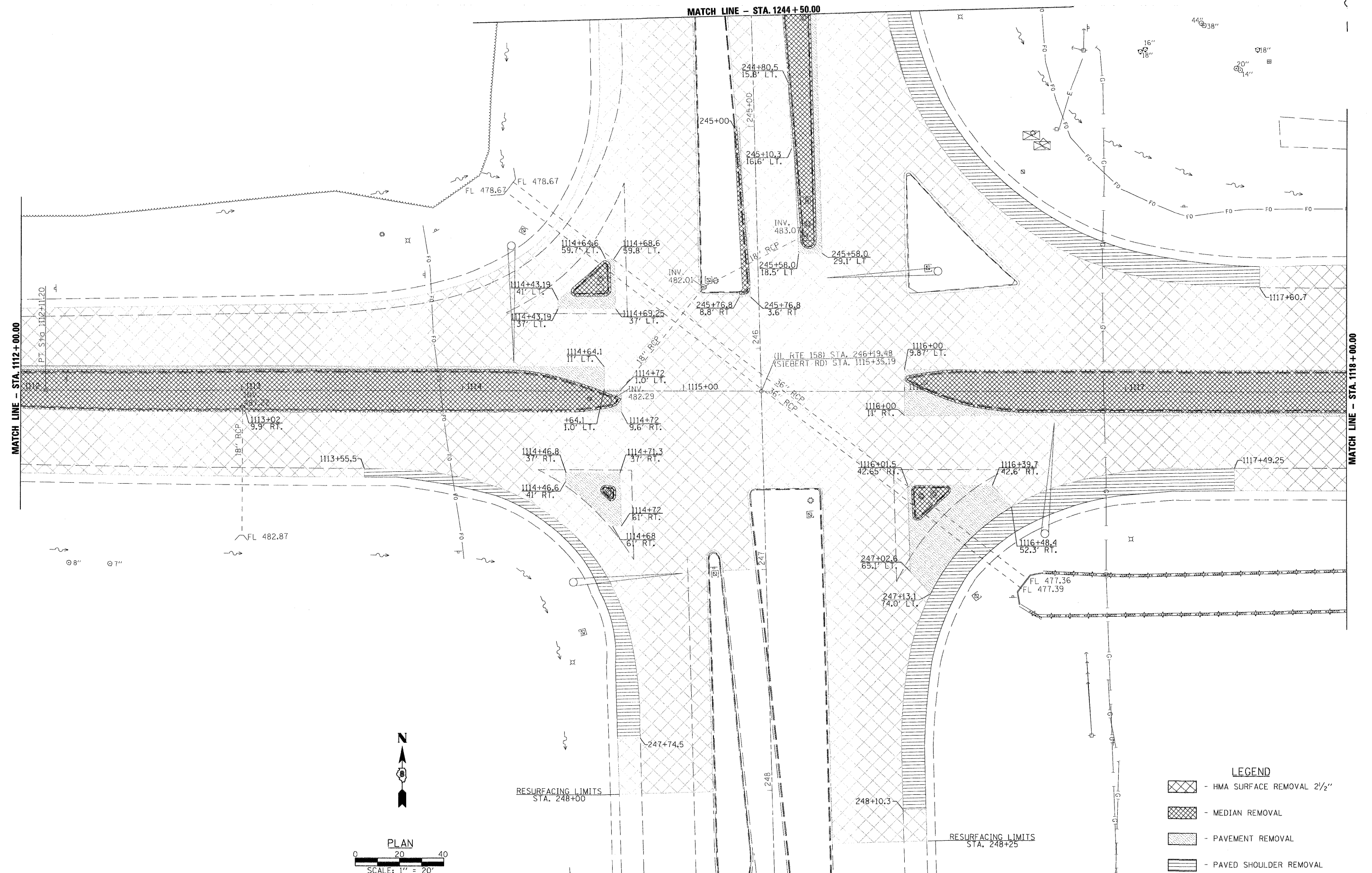
EXIST. CURVESEIB-1
PI STA. =1108+60.88
 $\Delta = 8^{\circ} 18' 10''$ (LT)
D = $1^{\circ} 10' 59''$
R = 4,843.52'
T = 351.55'
L = 701.87'
E = 12.74'
e = ----
T.R. = ----
S.E. RUN = ----
P.C. STA. =1105+09.33
P.T. STA. =1112+11.20



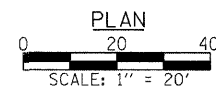
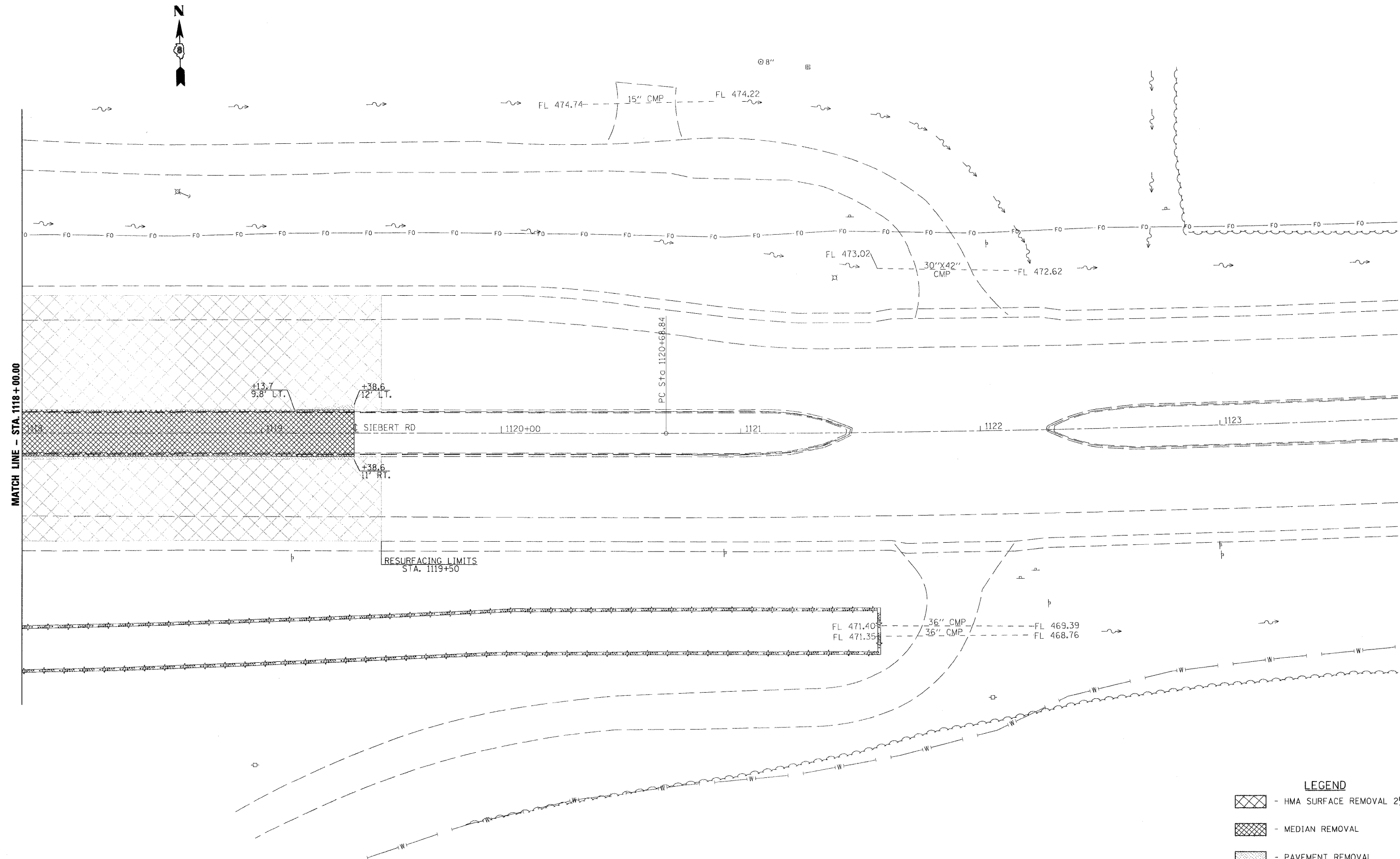
LEGEND

-  - HMA SURFACE REMOVAL, 2 1/2"
 - MEDIAN REMOVAL
 - PAVEMENT REMOVAL
 - PAVED SHOULDER REMOVAL

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED -	REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	REMOVAL PLAN			F.A.P. RTE. 674	SECTION 410-1-N	COUNTY ST. CLAIR	TOTAL SHEETS 58	SHEET NO. 24
	PLOT SCALE = #SCALE#	DRAWN -	REVISED -					CONTRACT NO. 76C63				
	PLOT DATE = #DATE#	CHECKED -	REVISED -		SCALE: 1" = 20'	SHEET NO. 24 OF 58 SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
		DATE -	REVISED -									

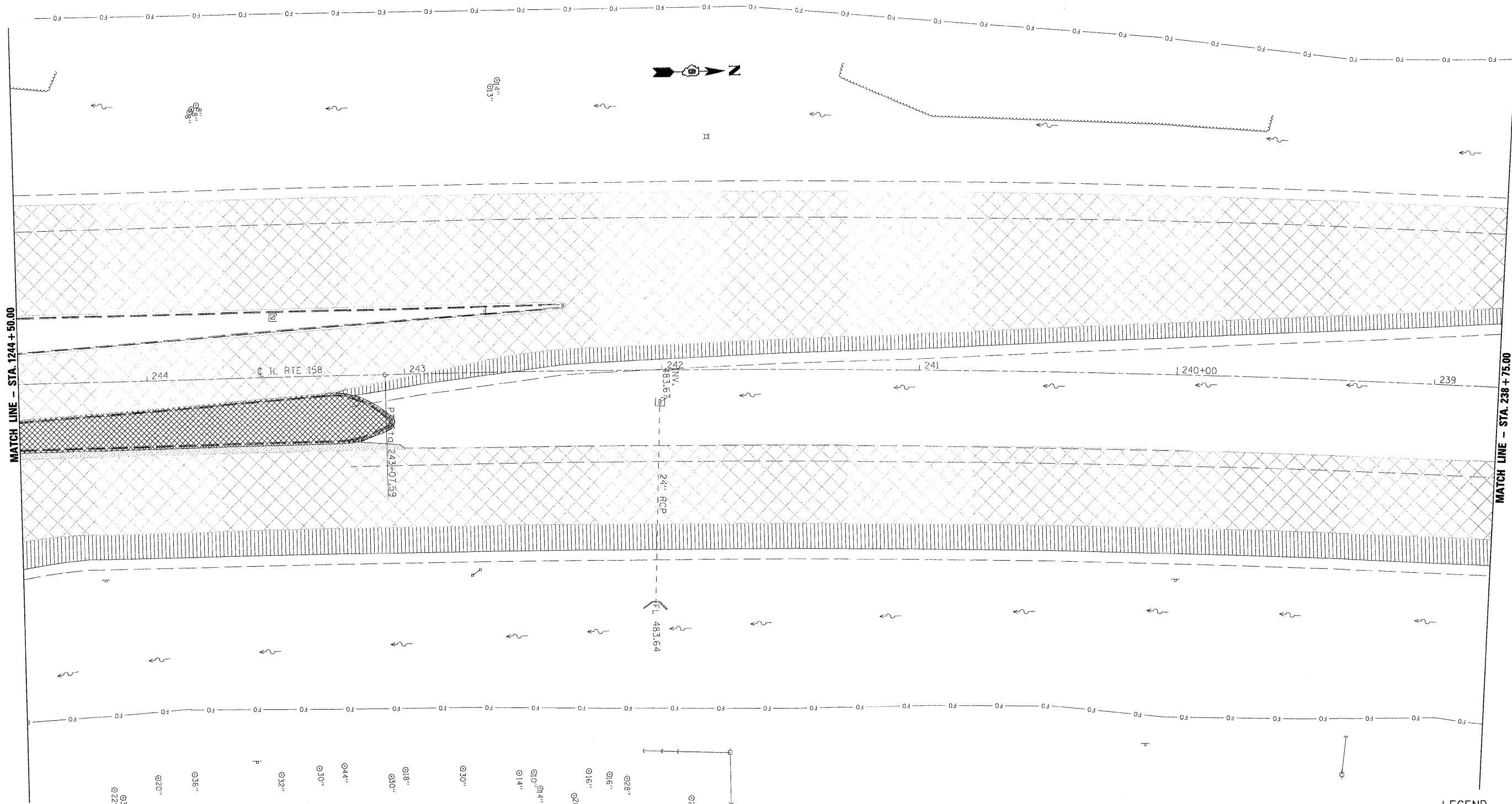


FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED - DRAWN -	REVISED - REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	REMOVAL PLAN				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = #SCALE#	CHECKED -	REVISED -	674						410-I-N	ST. CLAIR	58	25	
PLOT DATE = #DATE#	DATE -	REVISED -			SCALE: 1" = 20'	SHEET NO. 25 OF 58 SHEETS	STA.	TO STA.	CONTRACT NO. 76C63				
					FED. ROAD DIST. NO.				ILLINOIS FED. AID PROJECT				



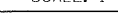
LEGEND				
	- HMA SURFACE REMOVAL 2 1/2"			
	- MEDIAN REMOVAL			
	- PAVEMENT REMOVAL			
	- PAVED SHOULDER REMOVAL			

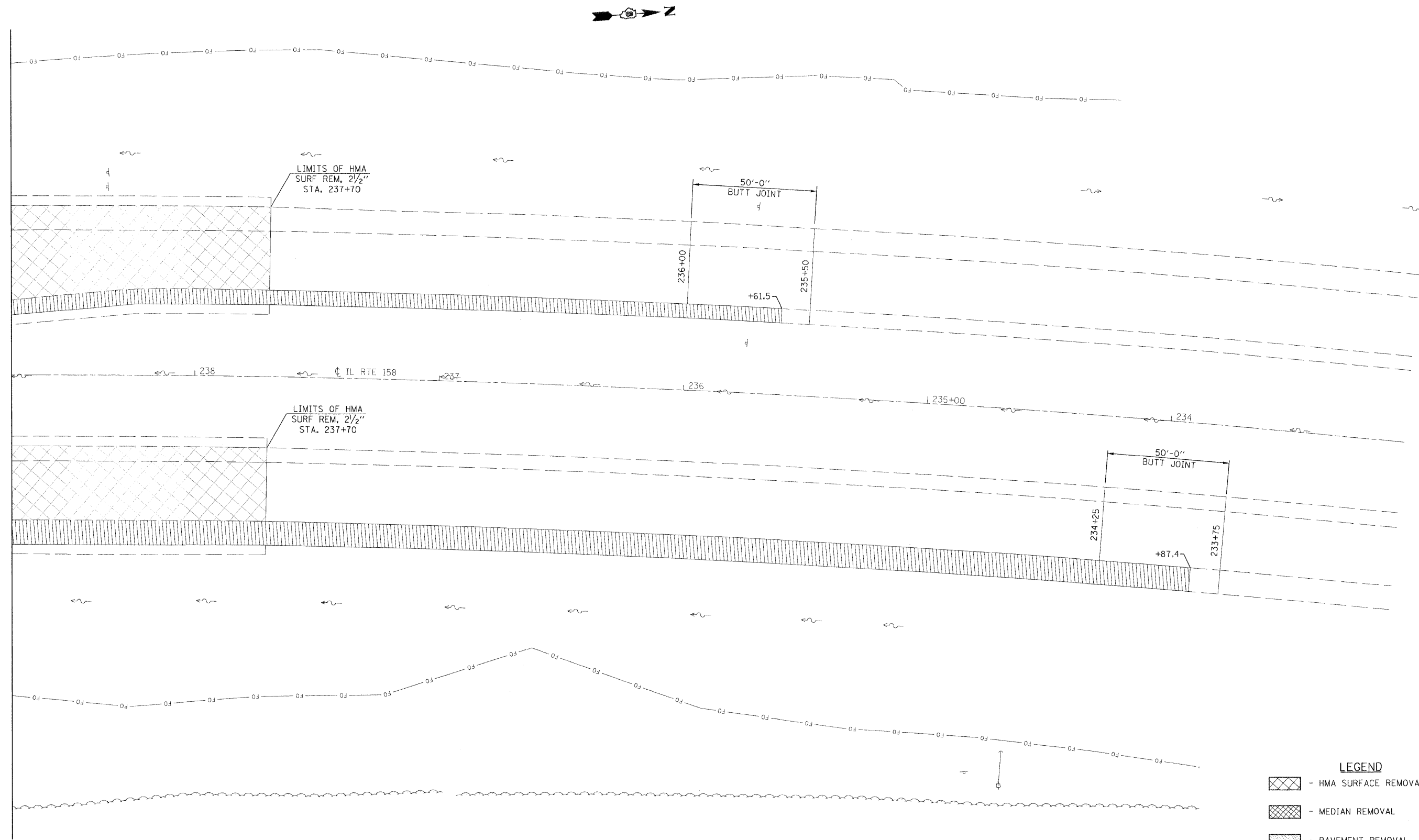
FILE NAME = \$FILEL\$	USER NAME = \$USER\$	DESIGNED -	REVISED -		Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	REMOVAL PLAN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -						674	410-1-N	ST. CLAIR	58	26
	PLOT DATE = \$DATE\$	DATE -	REVISED -			SCALE: 1" = 20' SHEET NO. 26 OF 58 SHEETS STA. TO STA.			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76C63	



- LEGEND**
- HMA SURFACE REMOVAL 2 1/2"
 - MEDIAN REMOVAL
 - PAVEMENT REMOVAL
 - PAVED SHOULDER REMOVAL

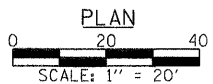
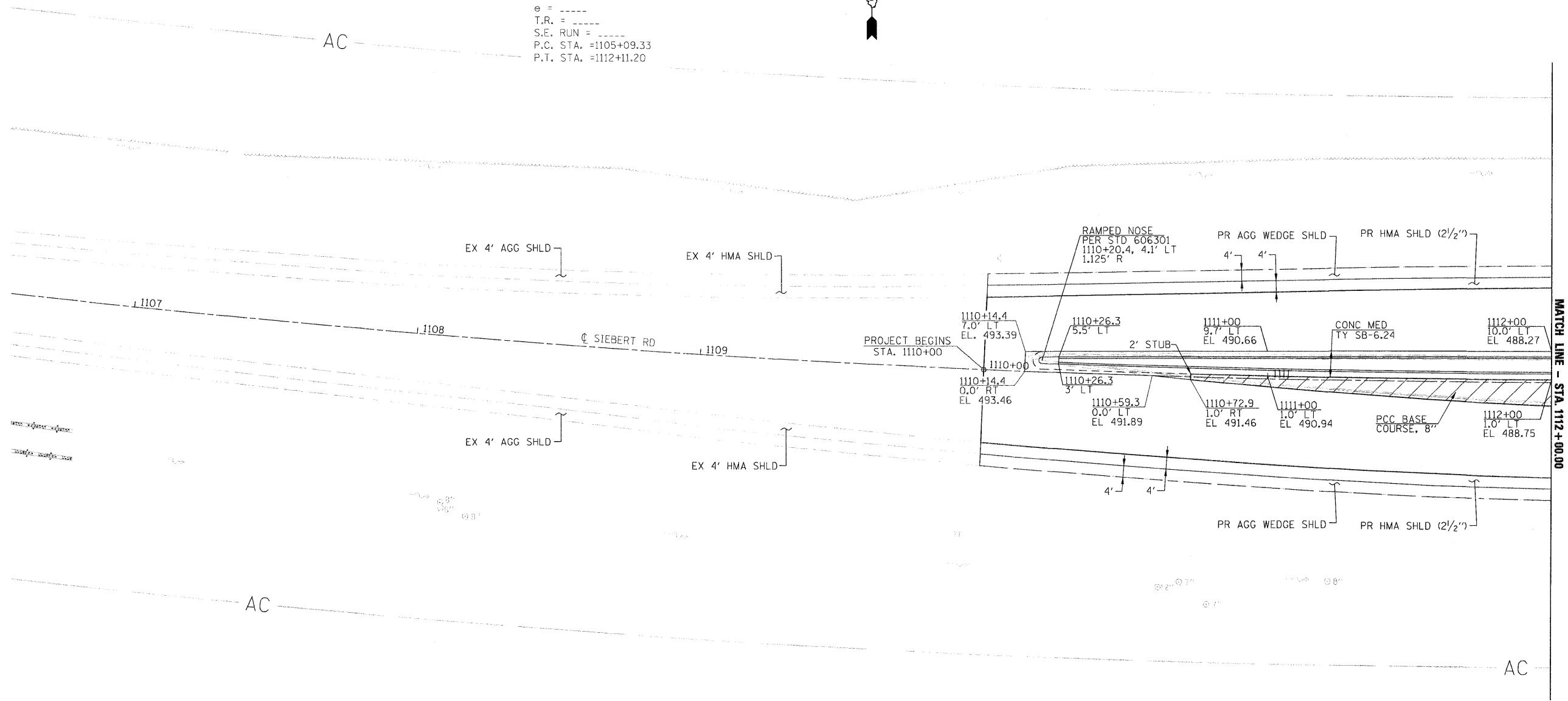
PLAN
0 20 40
SCALE: 1" = 20'

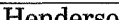
FILE NAME = \$FILEL\$	USER NAME = \$USER\$	DESIGNED -	REVISED -		Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	REMOVAL PLAN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$SCALE\$	DRAWN -	REVISED -						674	410-1-N	ST. CLAIR	58	27
	PLOT DATE = \$DATE\$	CHECKED -	REVISED -			CONTRACT NO. 76C63							
		DATE -	REVISED -			SCALE: 1" = 20'	SHEET NO. 27 OF 58 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

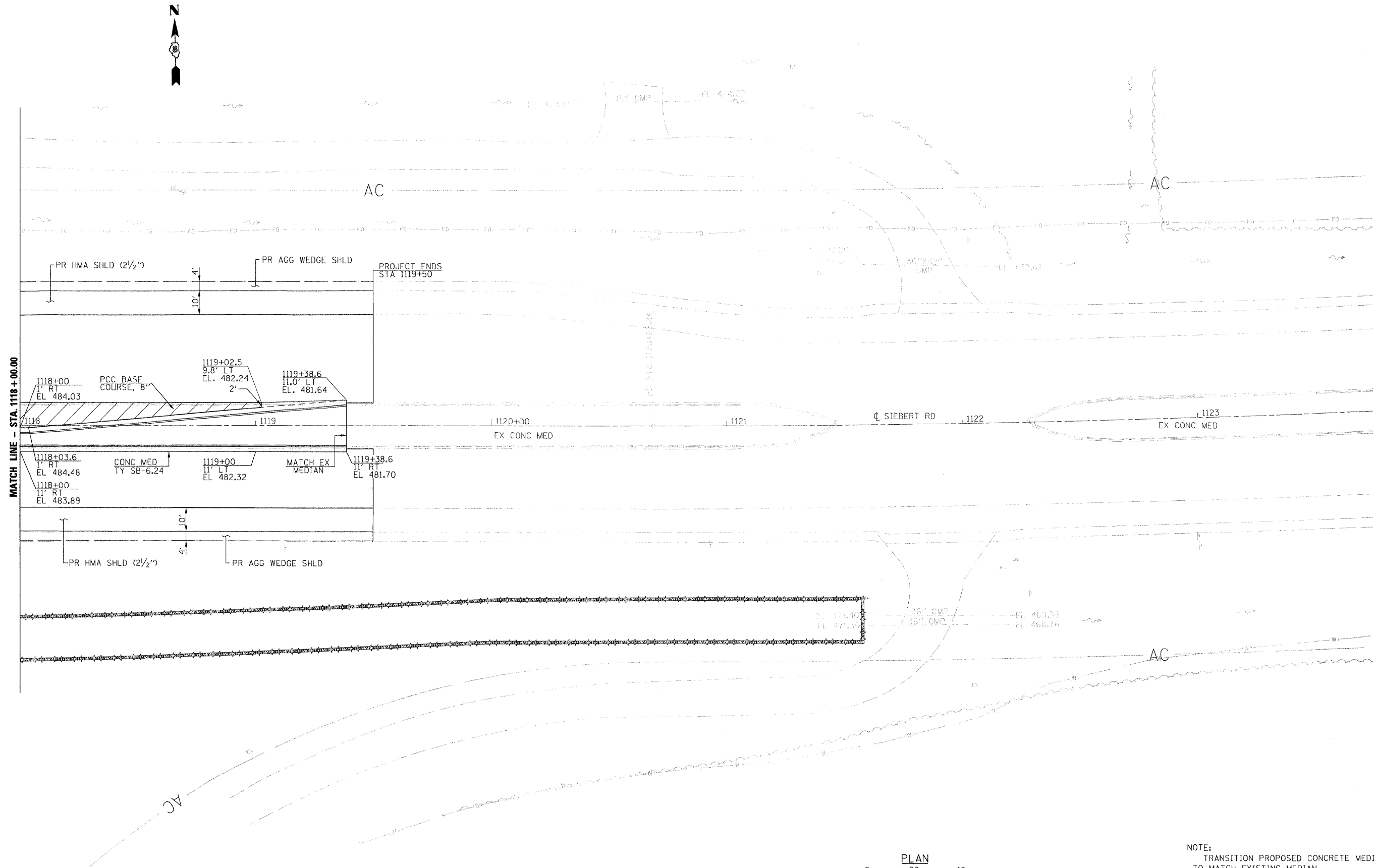


FILE NAME = \$FILEL\$	USER NAME = \$USER\$	DESIGNED -	REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL. Design Firm No. 184-001907	REMOVAL PLAN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -	674					410-1-N	ST. CLAIR	58	28	
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -		SCALE: 1" = 20' SHEET NO. 28 OF 58 SHEETS STA. TO STA.			CONTRACT NO. 76C63				
	PLOT DATE = \$DATE\$	DATE -	REVISED -					FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXIST. CURVESEIB-1
PI STA. =1108+60.88
 Δ =8° 18' 10" (LT)
D =1° 10' 59"
R =4,843.52'
T =351.55'
L =701.87'
E =12.74'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. =1105+09.33
P.T. STA. =1112+11.20

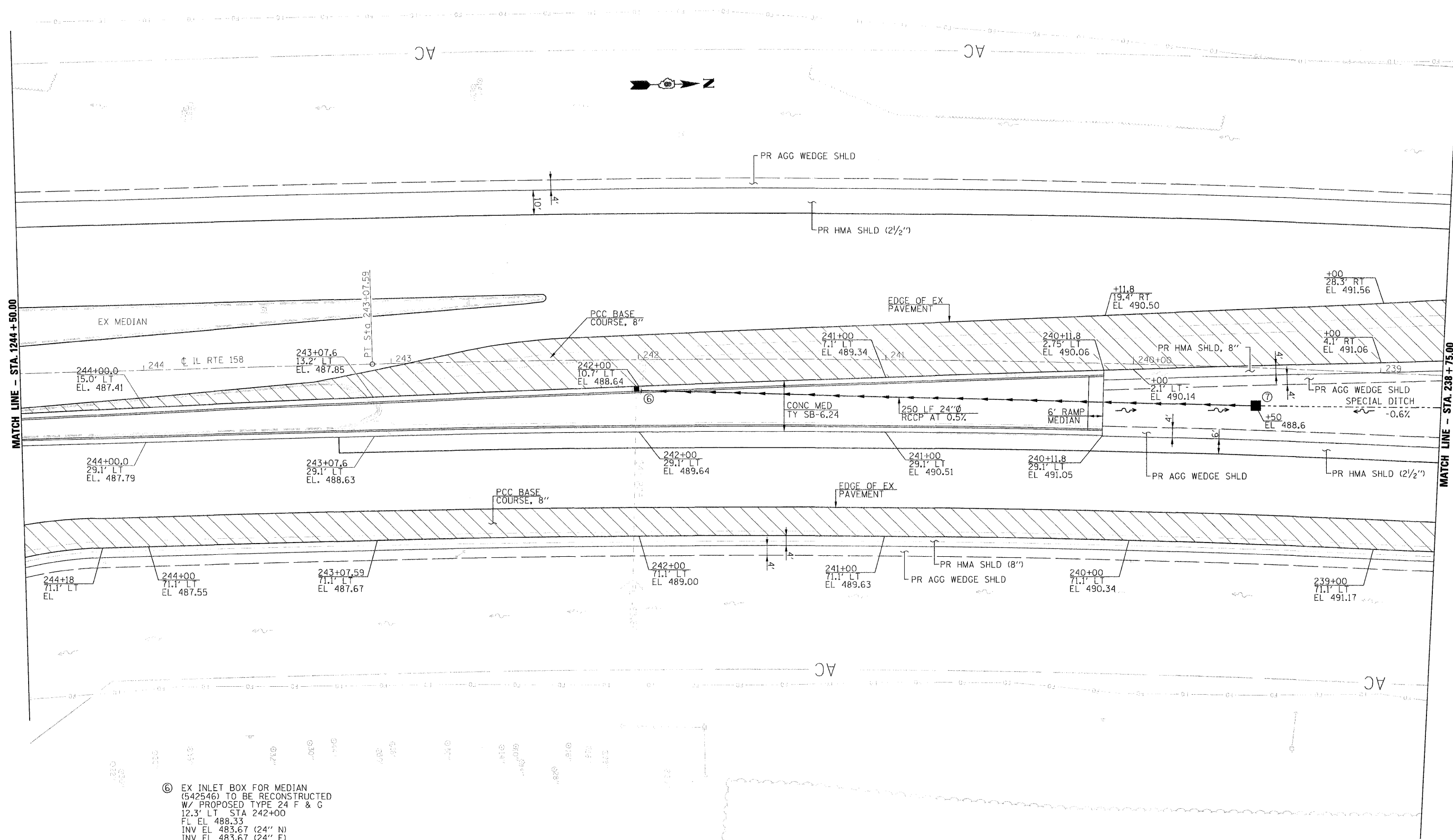


FILE NAME = \$FILEL\$	USER NAME = \$USER\$	DESIGNED -	REVISED -		Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	ROADWAY PLAN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						674	410-1-N	ST. CLAIR	58	29
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -									CONTRACT NO. 76C63	
	PLOT DATE = \$DATE\$	DATE -	REVISED -										
SCALE: 1" = 20'			SHEET NO. 27 OF 58 SHEETS			STA.	TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

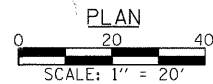


NOTE:
TRANSITION PROPOSED CONCRETE MEDIAN
TO MATCH EXISTING MEDIAN.

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	ROADWAY PLAN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\$FILEL\$	PLOT SCALE = \$SCALE\$	DRAWN -	REVISED -			674	410-1-N	ST. CLAIR	58	31
	PLOT DATE = \$DATE\$	CHECKED -	REVISED -			CONTRACT NO. 76C63				
		DATE -	REVISED -			FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

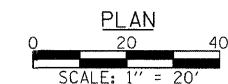
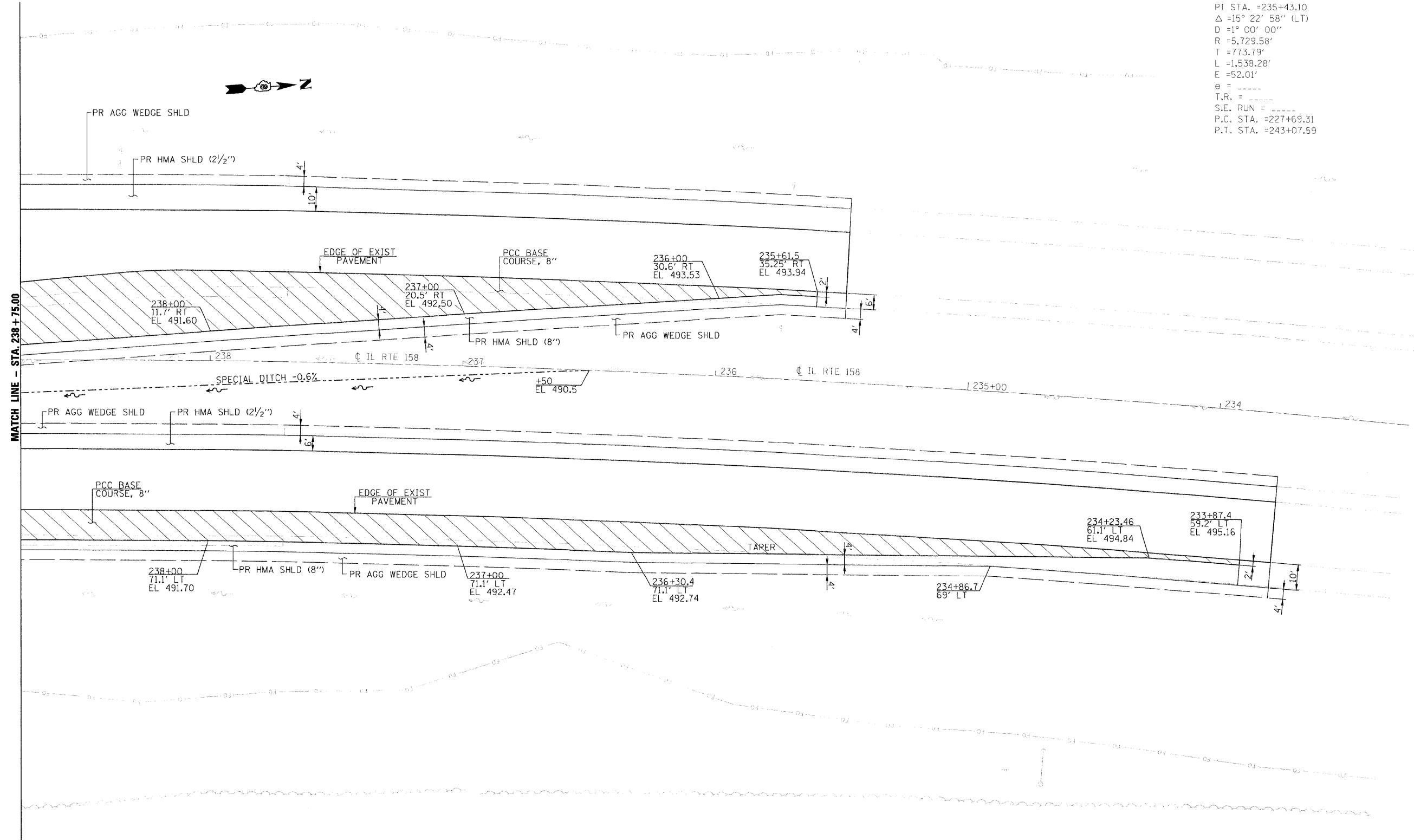


- ⑥ EX INLET BOX FOR MEDIAN (542546) TO BE RECONSTRUCTED W/ PROPOSED TYPE 24 F & G
 12.3' LT STA 242+00
 FL EL 488.33
 INV EL 483.67 (24" N)
 INV EL 483.67 (24" E)
- ⑦ PR FLUSH INLET BOX FOR MEDIAN, STANDARD 542546
 15.3' LT STA 239+50
 FL EL 488.6
 INV EL 484.9 (24" S)

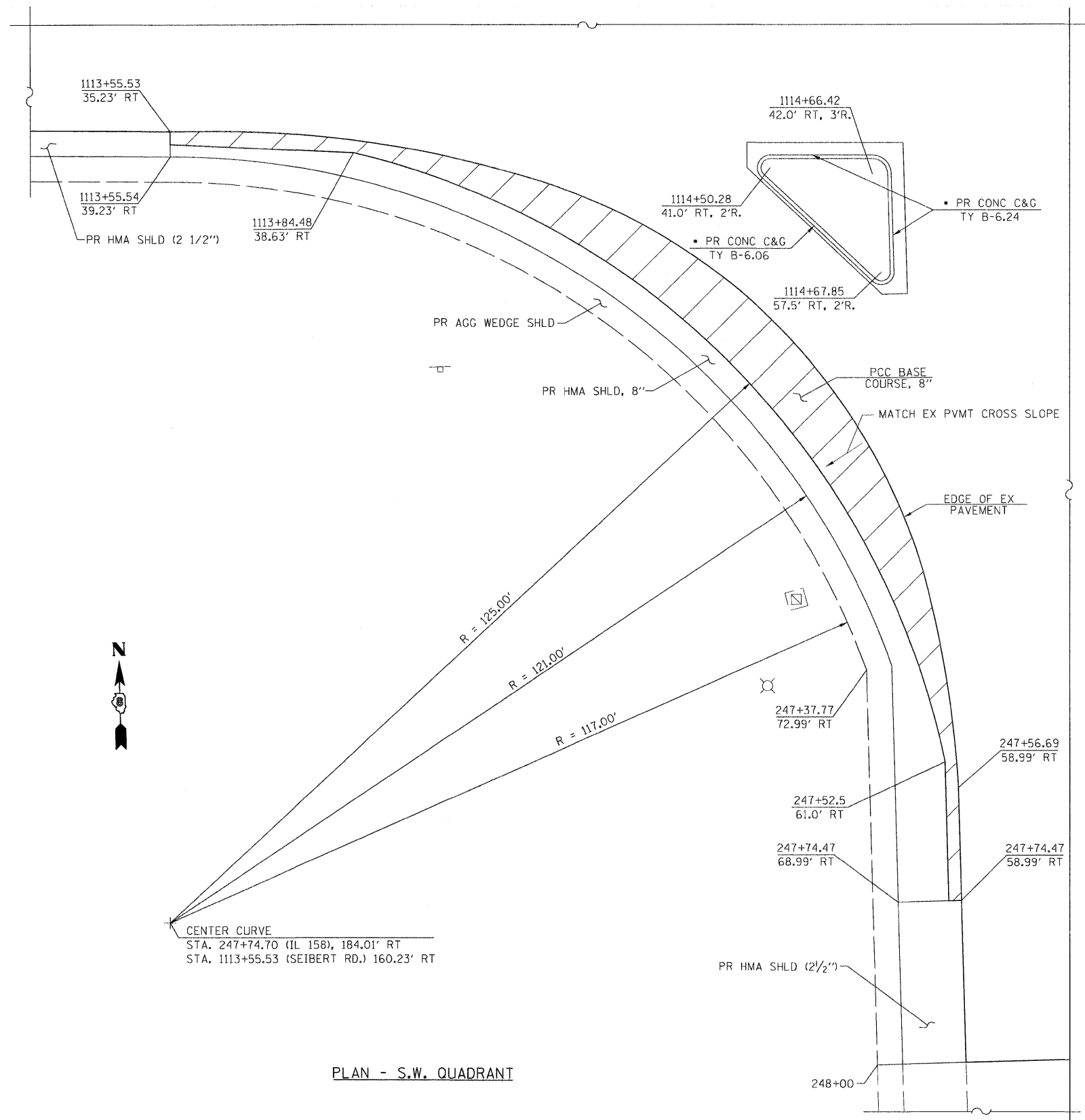


FILE NAME = \$FILEL\$	USER NAME = \$USER\$	DESIGNED -	REVISED -		Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907				ROADWAY PLAN				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -	674										410-1-N	ST. CLAIR	58	32	
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -		SCALE: 1" = 20' SHEET NO. 30 OF 58 SHEETS STA. TO STA.				CONTRACT NO. 76C63								
	PLOT DATE = \$DATE\$	DATE -	REVISED -										FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

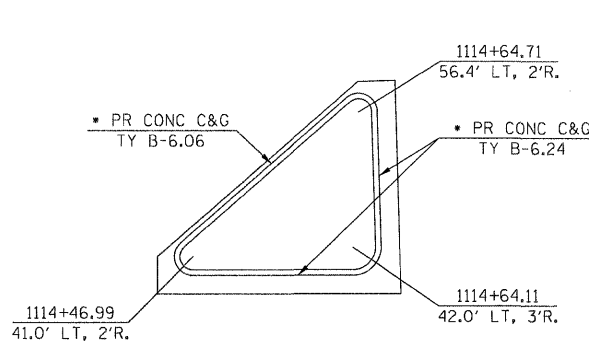
EXIST. CURVE158-1
 PI STA. =235+43.10
 Δ =15° 22' 58" (LT)
 D =1° 00' 00"
 R =5,729.58'
 T =773.79'
 L =1,538.28'
 E =52.01'
 e =
 T.R. =
 S.E. RUN =
 P.C. STA. =227+69.31
 P.T. STA. =243+07.59



FILE NAME = \$FILEL\$	USER NAME = \$USER\$	DESIGNED -	REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	ROADWAY PLAN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$SCALE\$	DRAWN -	REVISED -					674	410-1-N	ST. CLAIR	58	33
	PLOT DATE = \$DATE\$	CHECKED -	REVISED -		SCALE: 1" = 20' SHEET NO. 33 OF 58 SHEETS STA. TO STA.			CONTRACT NO. 76C63				
		DATE -	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

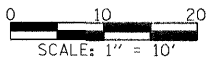


PLAN - S.W. QUADRANT



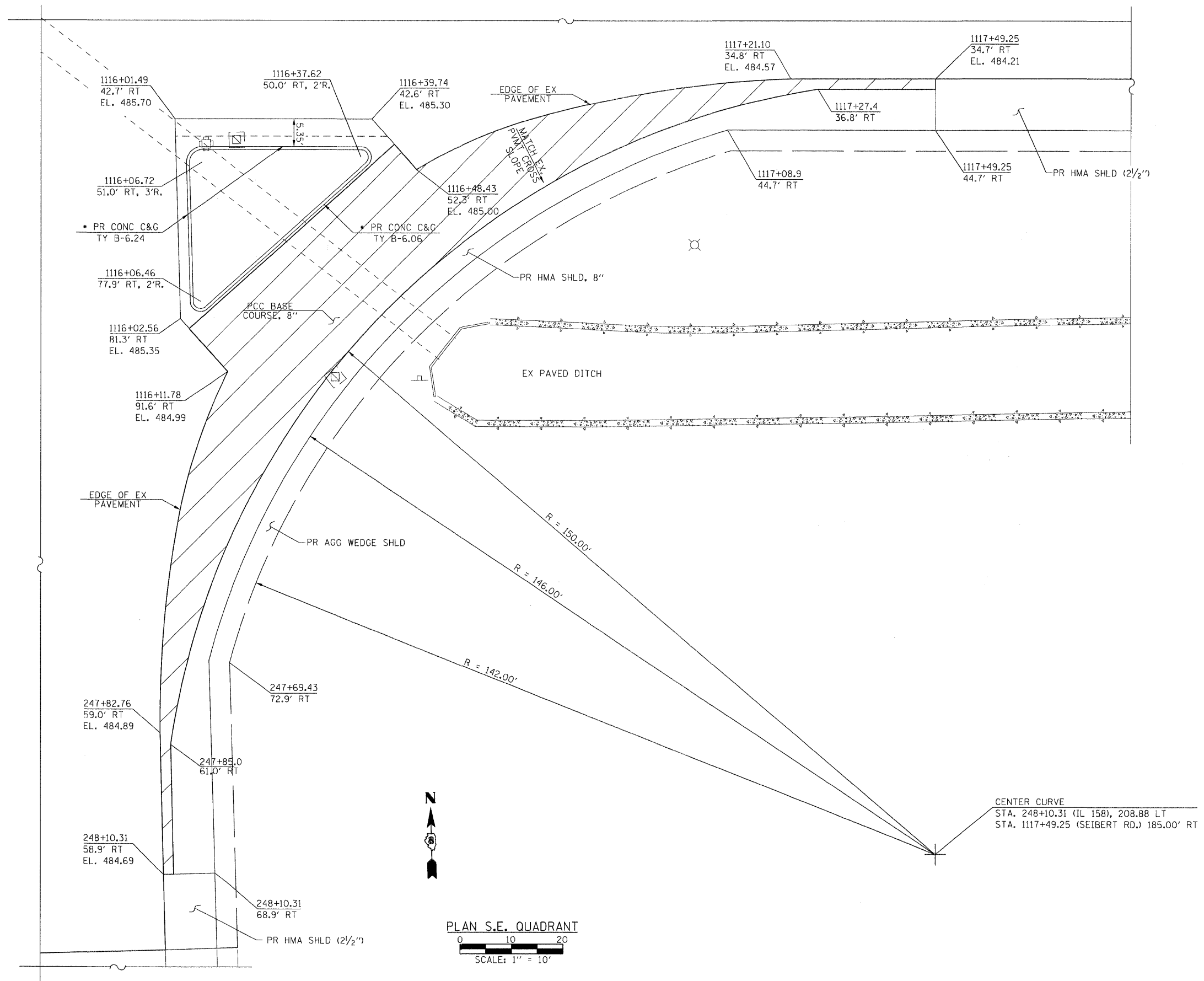
DETAIL - N.W. ISLAND

• ISLAND TO BE PAID FOR AS "CONCRETE MEDIAN, TYPE B-6.24".



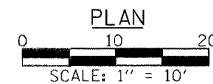
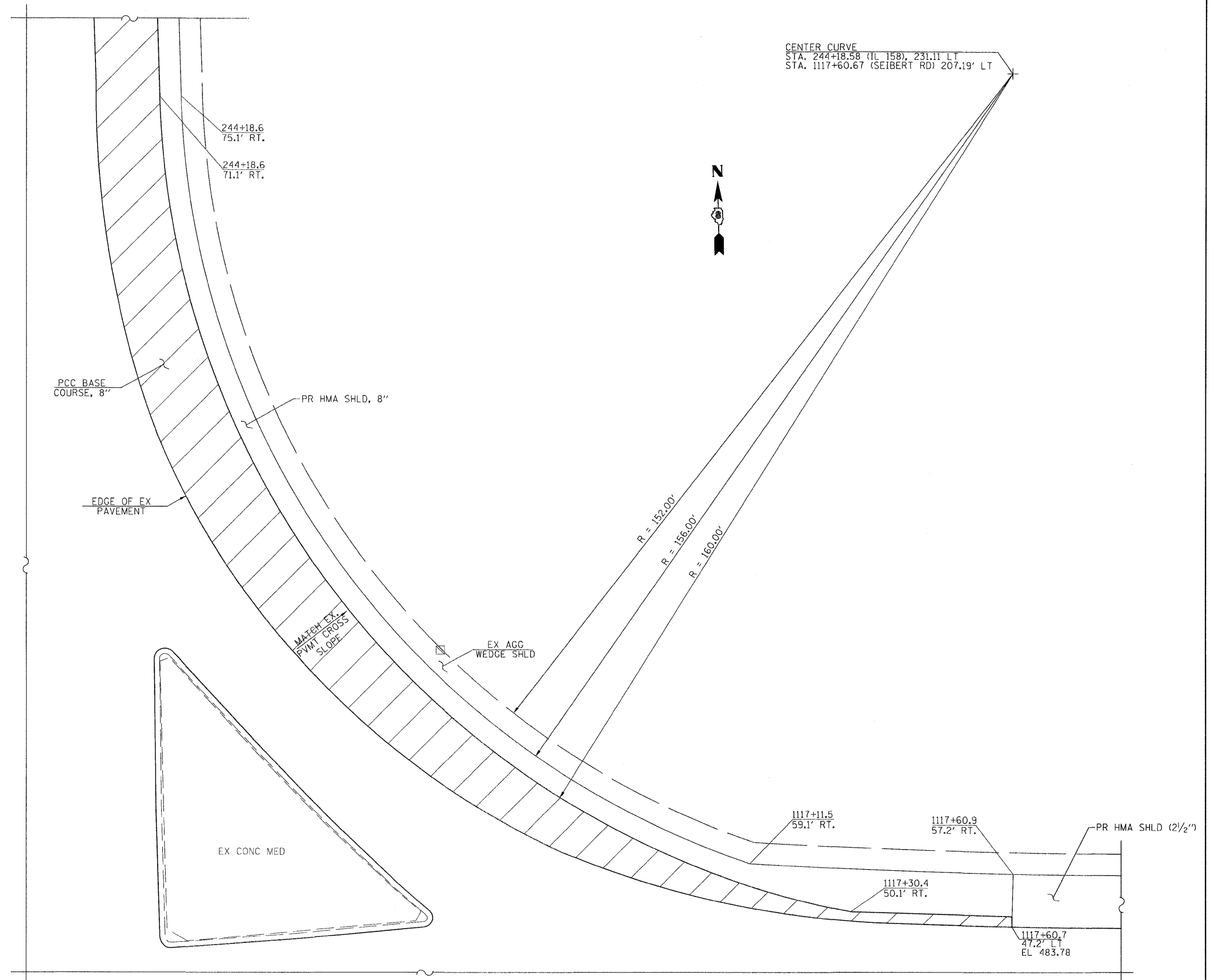
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -		Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	INTERSECTION DETAILS (S.W. & N.W. QUADRANT)				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\$FILE\$		DRAWN -	REVISED -							674	410-1-N	ST. CLAIR	58	34
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -			CONTRACT NO. 76C63								
	PLOT DATE = \$DATE\$	DATE -	REVISED -			SCALE: 1" = 10'	SHEET NO. 34 OF 58 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

• ISLAND TO BE PAID FOR AS "CONCRETE
MEDIAN, TYPE B-6.24".



PLAN S.E. QUADRANT
0 10 20
SCALE: 1" = 10'

FILE NAME = \$FILEL\$	USER NAME = \$USER\$	DESIGNED -	REVISED -		Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	INTERSECTION DETAILS (S.E. QUADRANT)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$SCALE\$	DRAWN -	REVISED -						674	410-1-N	ST. CLAIR	58	35
	PLOT DATE = \$DATE\$	CHECKED -	REVISED -			SCALE: 1" = 10'	SHEET NO. 35 OF 58 SHEETS	STA.	TO STA.	CONTRACT NO. 76C63			
		DATE -	REVISED -							FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			



FILE NAME = \$FILEL\$	USER NAME = \$USER\$	DESIGNED - DRAWN -	REVISED - REVISED -		Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	INTERSECTION DETAILS (N.E. QUADRANT)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -			674	410-1-N	ST. CLAIR	58	36			
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						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							



RAISED REFLECTIVE PAVEMENT MARKER LEGEND

- | <u>THERMOPLASTIC PAVEMENT MARKING REFLECTANCE</u> | | <u>Raised Reflective Pavement Marker</u> |
|--|--|--|
| ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE) | ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE DOUBLE 4" (SOLID YELLOW) | ◀ ONE-WAY AMBER MARKER |
| ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID YELLOW) | ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (SOLID WHITE) | ◀ ONE-WAY CRYSTAL/OPAQUE MARKER |
| ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (10' DASH, 30' SKIP, WHITE) | ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (SOLID YELLOW) | ↔ TWO-WAY AMBER MARKER |
| ④ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (2' DASH, 6' SKIP, WHITE) | ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (SOLID WHITE) | ■ AMBER PRISMATIC CURB REFLECTOR |
| ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (SOLID WHITE) | ⑩ THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE) | □ CRYSTAL PRISMATIC CURB REFLECTOR |

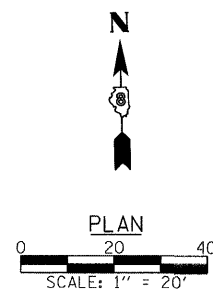
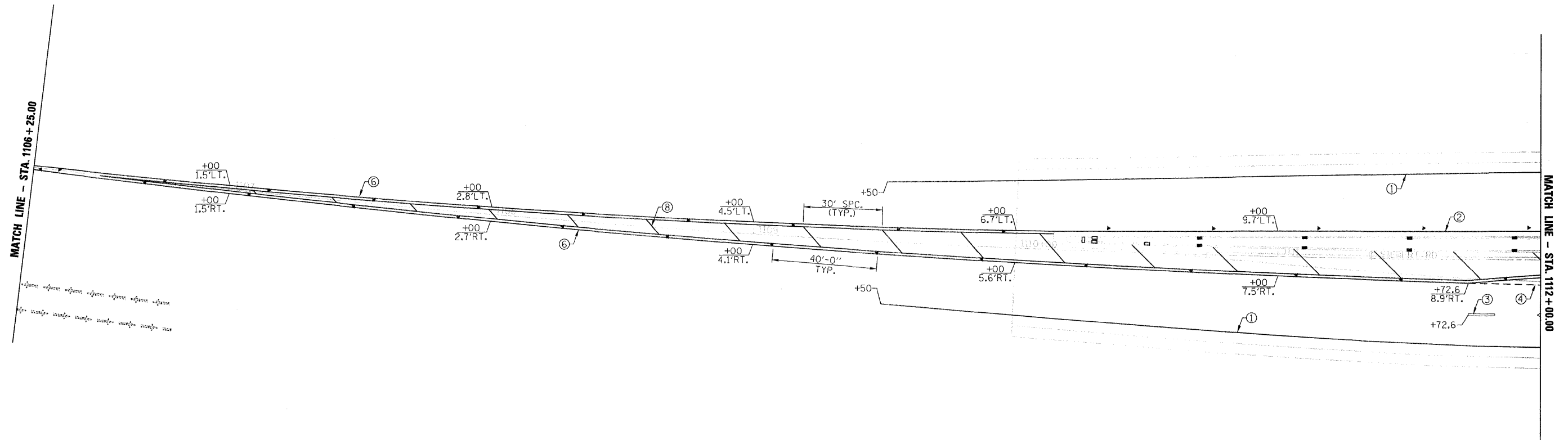
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL/OPAQUE MARKER
- ◄ TWO-WAY AMBER MARKER
- AMBER PRISMATIC CURB REFLECTOR
- ◻ CRYSTAL PRISMATIC CURB REFLECTOR

PLAN

0 20 40

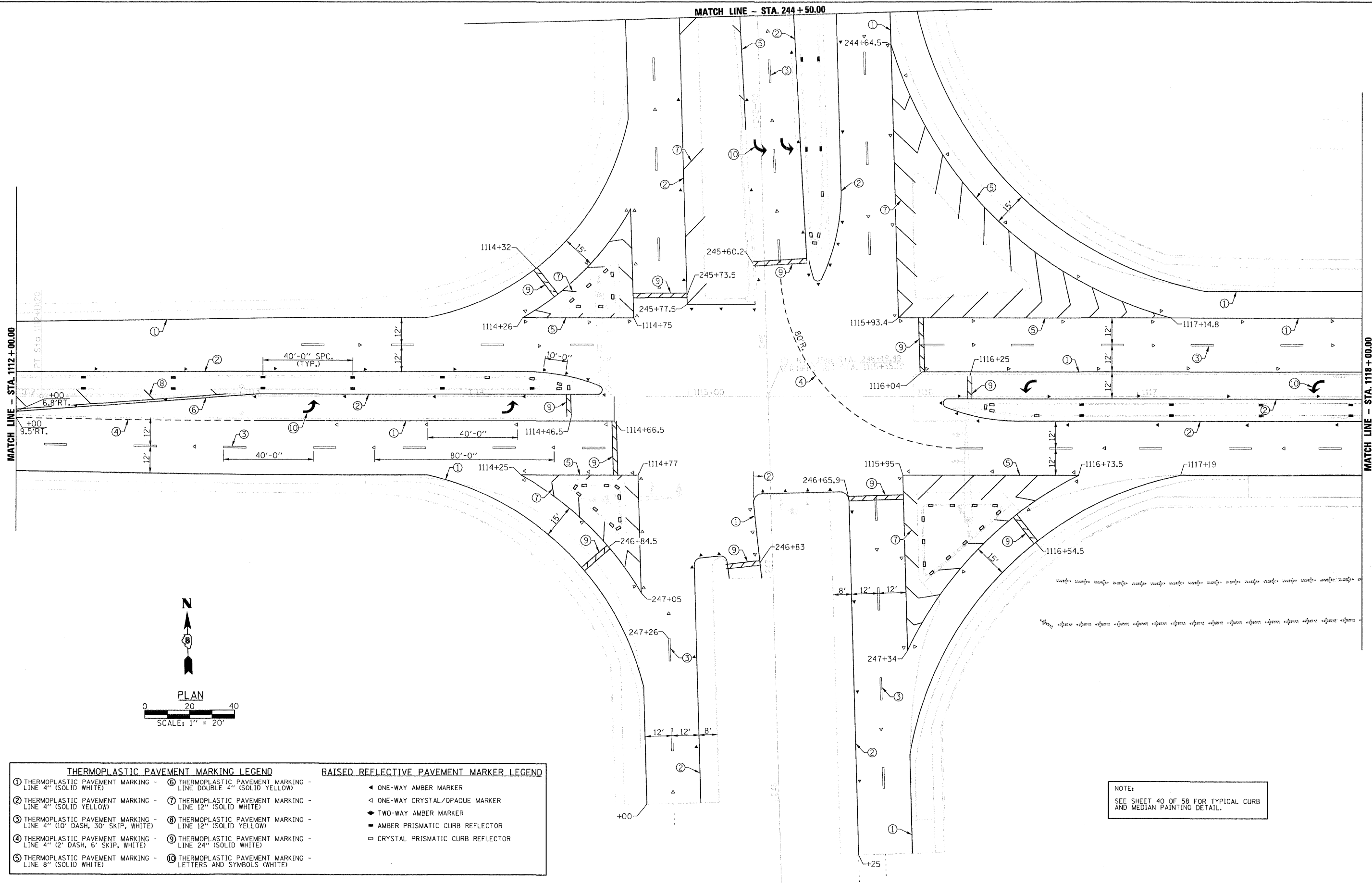
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FILE NAME = \$FILE\$.	USER NAME = \$USER\$	DESIGNED -	REVISED -		Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	PAVEMENT MARKING				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -							674	410-1-N	ST. CLAIR	58	37
	PLOT DATE = \$DATE\$	DATE -	REVISED -			SCALE: 1" = 20' SHEET NO. 37 OF 58 SHEETS STA. TO STA.				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
						CONTRACT NO. 76C63								



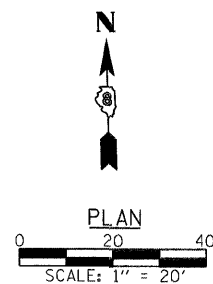
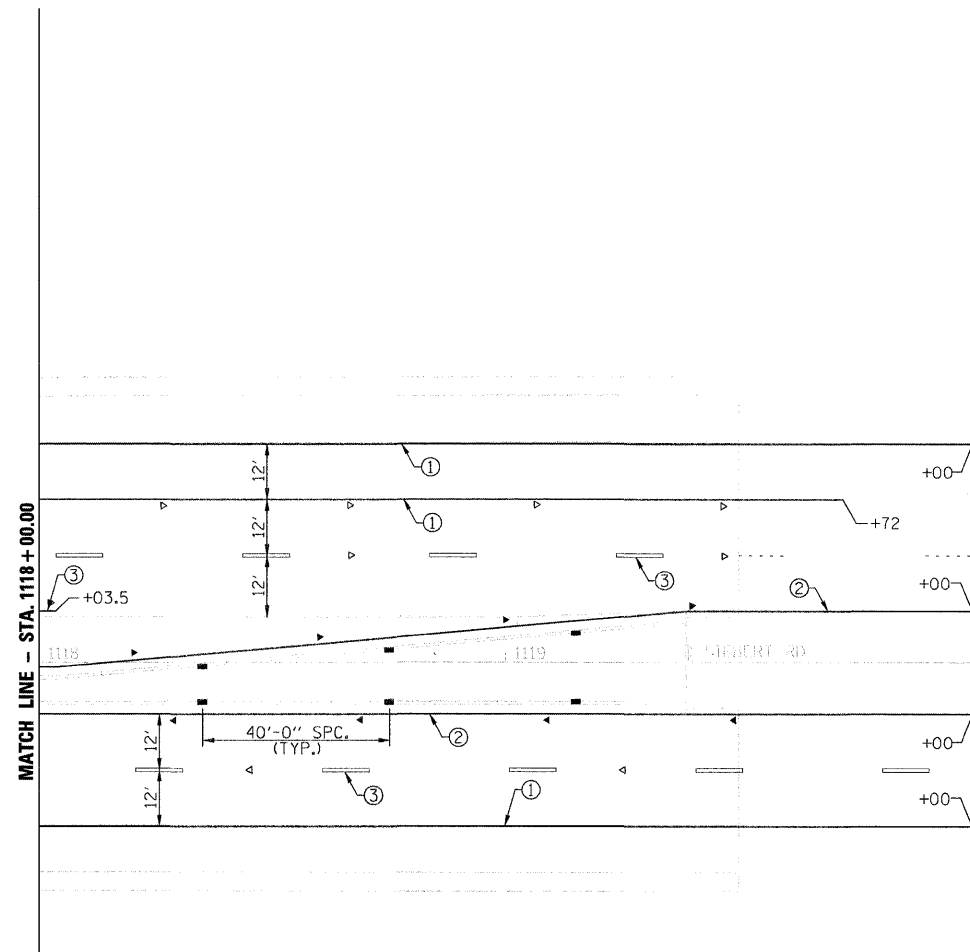
THERMOPLASTIC PAVEMENT MARKING LEGEND		RAISED REFLECTIVE PAVEMENT MARKER LEGEND	
① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE)	⑥ THERMOPLASTIC PAVEMENT MARKING - LINE DOUBLE 4" (SOLID YELLOW)	◀ ONE-WAY AMBER MARKER	
② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID YELLOW)	⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (SOLID WHITE)	◁ ONE-WAY CRYSTAL/OPAQUE MARKER	
③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (10' DASH, 30' SKIP, WHITE)	⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (SOLID YELLOW)	◆ TWO-WAY AMBER MARKER	
④ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (2' DASH, 6' SKIP, WHITE)	⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (SOLID WHITE)	■ AMBER PRISMATIC CURB REFLECTOR	
⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (SOLID WHITE)	⑩ THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)	□ CRYSTAL PRISMATIC CURB REFLECTOR	

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED - DRAWN -	REVISED - REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	PAVEMENT MARKING				F.A.P. RTE. 674	SECTION 410-1-N	COUNTY ST. CLAIR	TOTAL SHEETS 58	SHEET NO. 38
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -		SCALE: 1" = 20' SHEET NO. 38 OF 58 SHEETS STA. TO STA.				CONTRACT NO. 76C63				
	PLOT DATE = #DATE#	DATE -	REVISED -						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

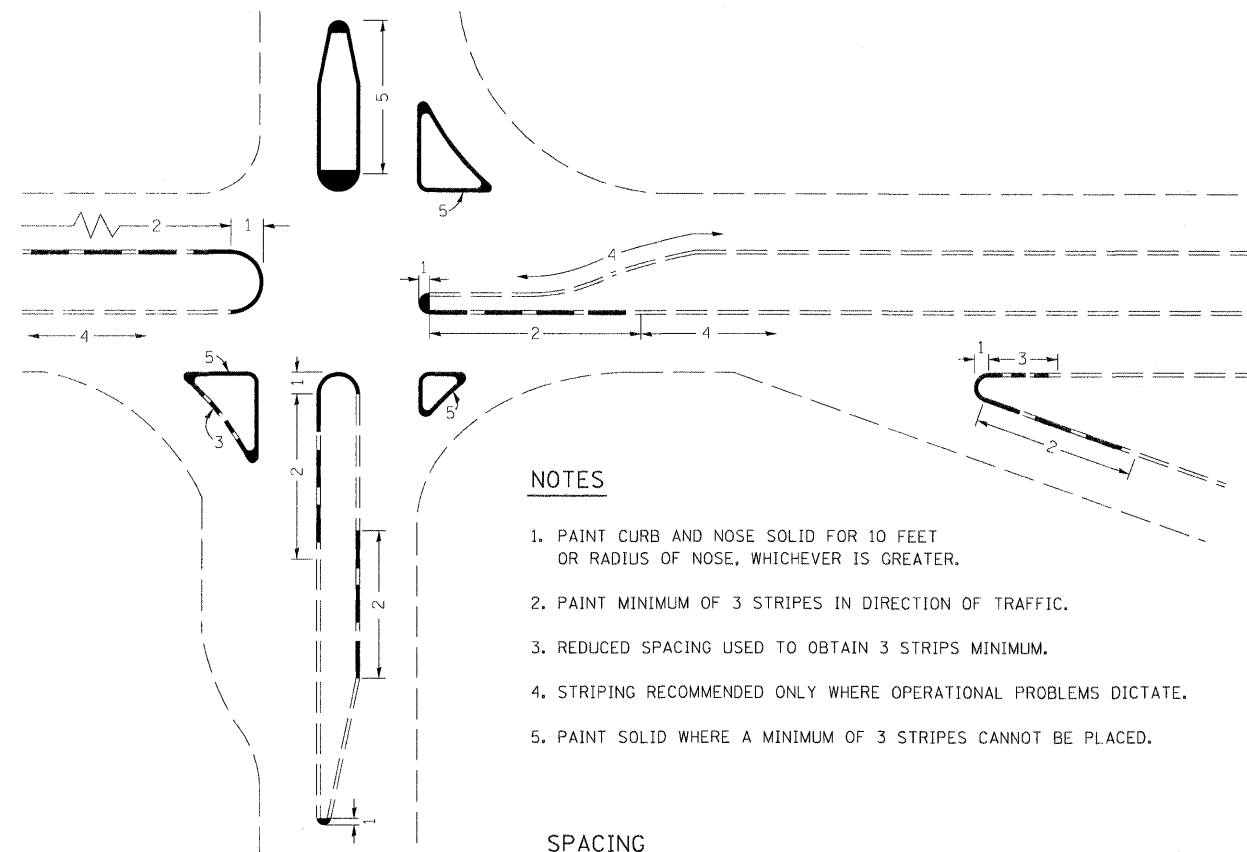


THERMOPLASTIC PAVEMENT MARKING LEGEND		RAISED REFLECTIVE PAVEMENT MARKER LEGEND	
① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE)	⑥ THERMOPLASTIC PAVEMENT MARKING - LINE DOUBLE 4" (SOLID YELLOW)	◀ ONE-WAY AMBER MARKER	
② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID YELLOW)	⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (SOLID WHITE)	◀ ONE-WAY CRYSTAL/OPAQUE MARKER	
③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (10' DASH, 30' SKIP, WHITE)	⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (SOLID YELLOW)	◆ TWO-WAY AMBER MARKER	
④ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (2' DASH, 6' SKIP, WHITE)	⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (SOLID WHITE)	■ AMBER PRISMATIC CURB REFLECTOR	
⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (SOLID WHITE)	⑩ THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)	□ CRYSTAL PRISMATIC CURB REFLECTOR	

NOTE:
SEE SHEET 40 OF 58 FOR TYPICAL CURB AND MEDIAN PAINTING DETAIL.



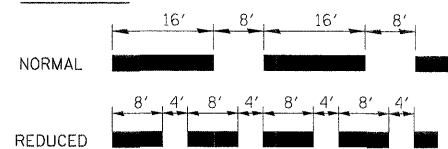
THERMOPLASTIC PAVEMENT MARKING LEGEND		RAISED REFLECTIVE PAVEMENT MARKER LEGEND
① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE)	⑥ THERMOPLASTIC PAVEMENT MARKING - LINE DOUBLE 4" (SOLID YELLOW)	◀ ONE-WAY AMBER MARKER
② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID YELLOW)	⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (SOLID WHITE)	◁ ONE-WAY CRYSTAL/OPAQUE MARKER
③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (10' DASH, 30' SKIP, WHITE)	⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (SOLID YELLOW)	◆ TWO-WAY AMBER MARKER
④ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (2' DASH, 6' SKIP, WHITE)	⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (SOLID WHITE)	■ AMBER PRISMATIC CURB REFLECTOR
⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (SOLID WHITE)	⑩ THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)	□ CRYSTAL PRISMATIC CURB REFLECTOR



NOTES

1. PAINT CURB AND NOSE SOLID FOR 10 FEET OR RADIUS OF NOSE, WHICHEVER IS GREATER.
2. PAINT MINIMUM OF 3 STRIPES IN DIRECTION OF TRAFFIC.
3. REDUCED SPACING USED TO OBTAIN 3 STRIPS MINIMUM.
4. STRIPING RECOMMENDED ONLY WHERE OPERATIONAL PROBLEMS DICTATE.
5. PAINT SOLID WHERE A MINIMUM OF 3 STRIPES CANNOT BE PLACED.

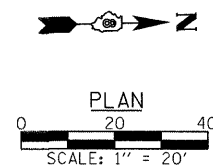
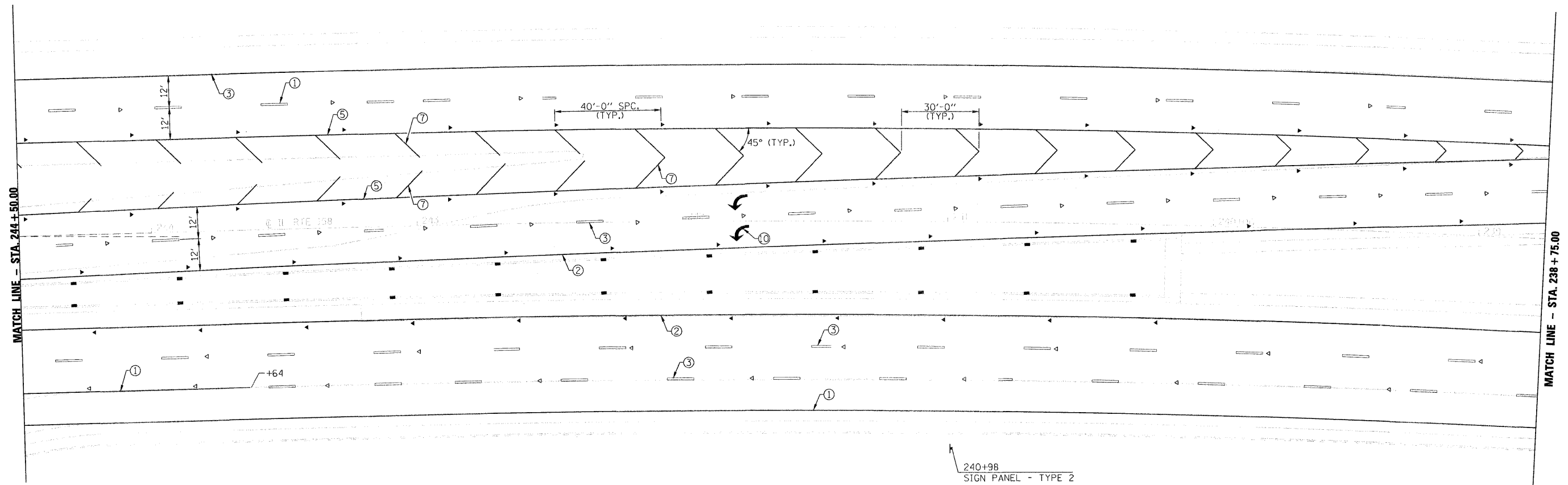
SPACING



CURB MARKING

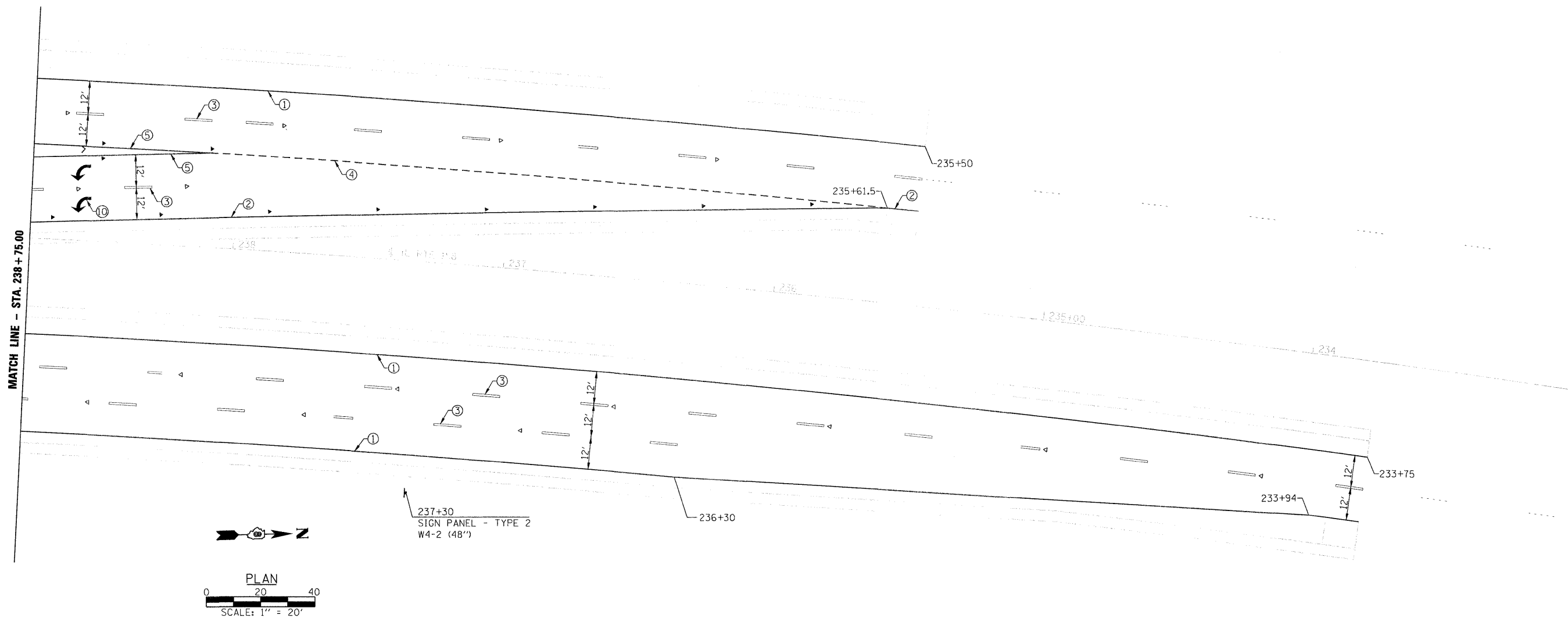
TYPICAL

FILE NAME = \$FILEL\$	USER NAME = \$USER\$	DESIGNED - DRAWN -	REVISED - REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	PAVEMENT MARKING					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -		674	410-1-N		ST. CLAIR	58	40				
	PLOT DATE = \$DATE\$	DATE -	REVISED -		SCALE: 1" = 20'		SHEET NO. 40 OF 58 SHEETS		STA. TO STA.		CONTRACT NO. 76C63			
											FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

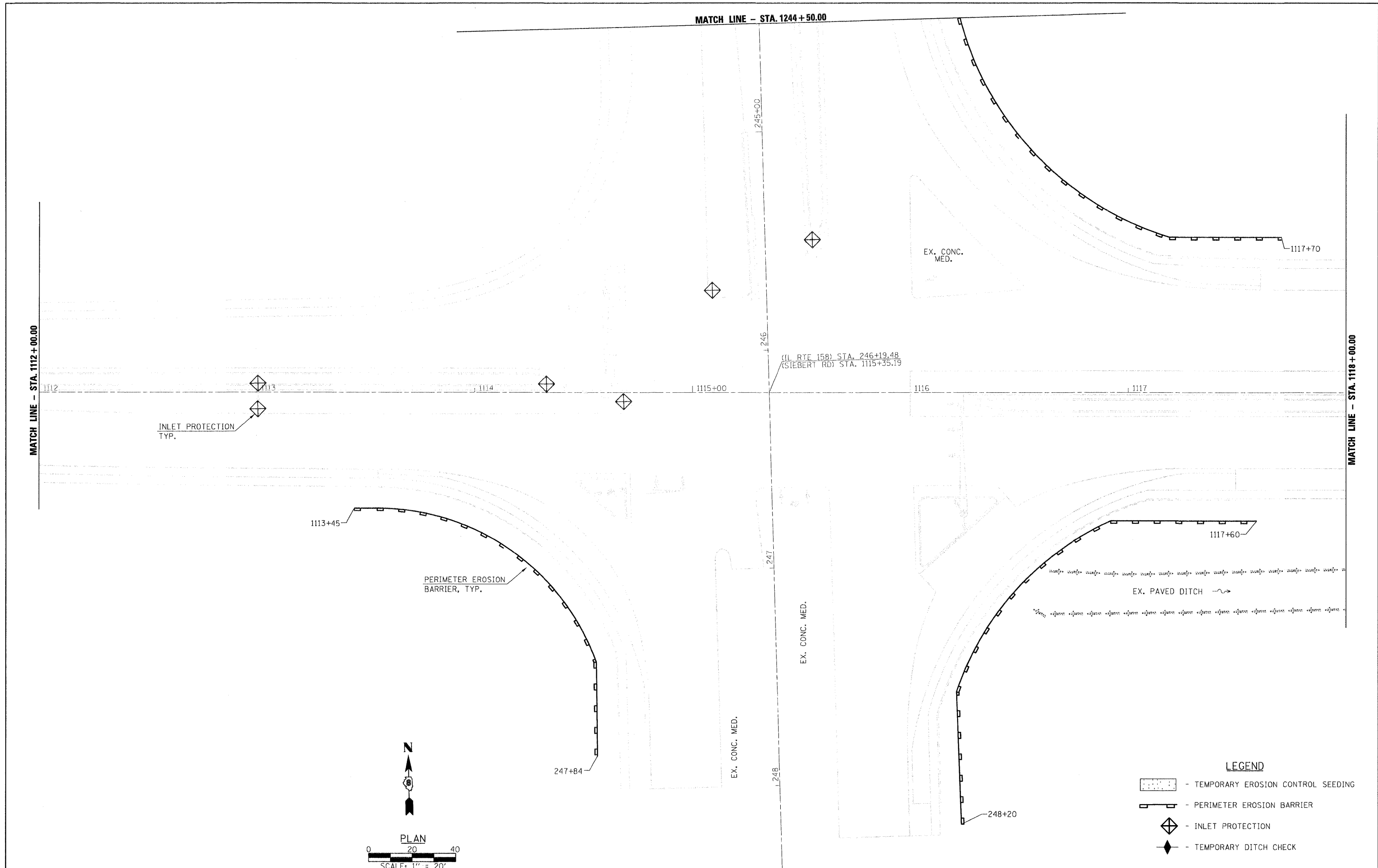


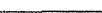
THERMOPLASTIC PAVEMENT MARKING LEGEND		RAISED REFLECTIVE PAVEMENT MARKER LEGEND	
① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE)	⑥ THERMOPLASTIC PAVEMENT MARKING - LINE DOUBLE 4" (SOLID YELLOW)	◀ ONE-WAY AMBER MARKER	
② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID YELLOW)	⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (SOLID WHITE)	◁ ONE-WAY CRYSTAL/OPAQUE MARKER	
③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (10' DASH, 30' SKIP, WHITE)	⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (SOLID YELLOW)	◆ TWO-WAY AMBER MARKER	
④ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (2' DASH, 6' SKIP, WHITE)	⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (SOLID WHITE)	■ AMBER PRISMATIC CURB REFLECTOR	
⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (SOLID WHITE)	⑩ THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)	□ CRYSTAL PRISMATIC CURB REFLECTOR	

FILE NAME = \$FILEL\$	USER NAME = \$USER\$	DESIGNED -	REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	PAVEMENT MARKING		F.A.P. RTE. 674	SECTION 410-1-N	COUNTY ST. CLAIR	TOTAL SHEETS 58	SHEET NO. 41
	PLOT SCALE = \$SCALE\$	DRAWN -	REVISED -								
	PLOT DATE = \$DATE\$	CHECKED -	REVISED -		SCALE: 1" = 20'	SHEET NO. 41 OF 58 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 76C63
		DATE -	REVISED -								



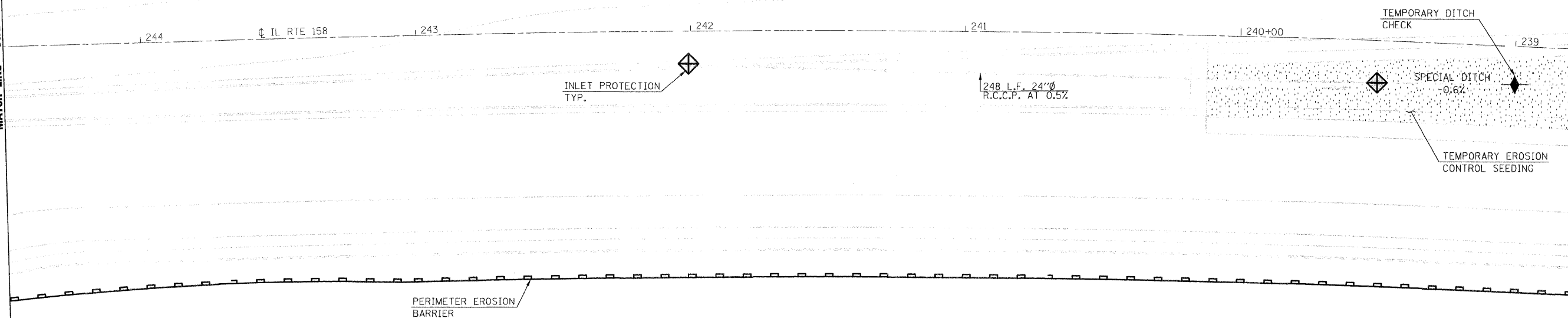
FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	PAVEMENT MARKING		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN -	REVISED -				674	410-1-N	ST. CLAIR	58	42
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FILE NAME = \$FILEL\$	USER NAME = \$USER\$	DESIGNED -	REVISED -		Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	EROSION PLAN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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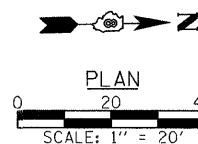
MATCH LINE - STA. 1244+50.00

MATCH LINE - STA. 238+75.00



LEGEND

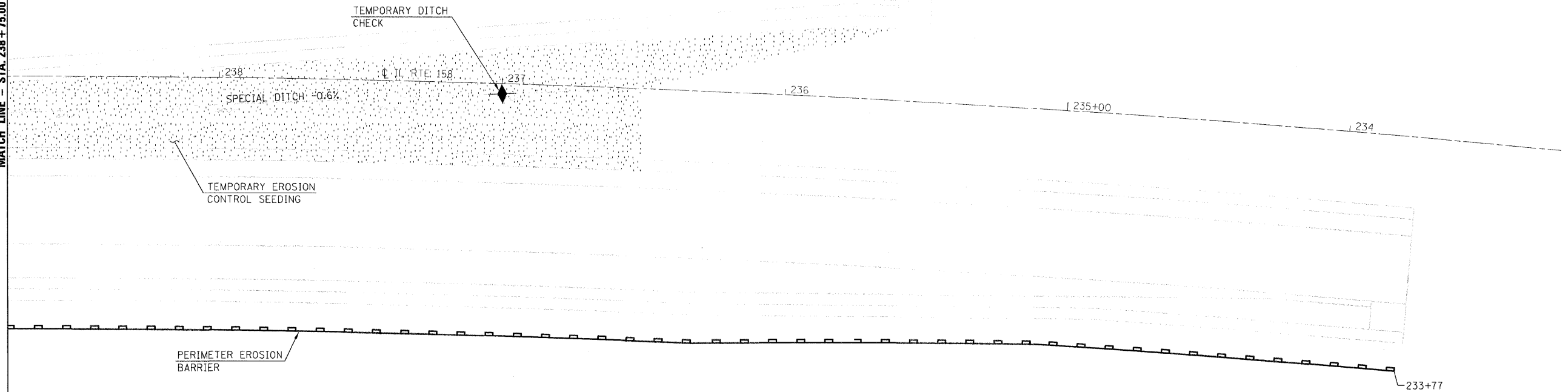
- TEMPORARY EROSION CONTROL SEEDING
- PERIMETER EROSION BARRIER
- INLET PROTECTION
- TEMPORARY DITCH CHECK



FILE NAME = \$FILEL\$	USER NAME = \$USER\$	DESIGNED -	REVISED -		Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	EROSION PLAN					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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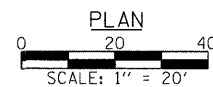


MATCH LINE - STA. 238+75.00



LEGEND

-  - TEMPORARY EROSION CONTROL SEEDING
-  - PERIMETER EROSION BARRIER
-  - INLET PROTECTION
-  - TEMPORARY DITCH CHECK



FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED -	REVISED -		Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62708 Phone: (217)544-8033 IL Design Firm No. 184-001907	EROSION PLAN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		DATE -	REVISED -						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

ELECTRICAL GENERAL NOTES

1. ALL VEHICLE SIGNAL HEADS SHALL HAVE 12" SECTIONS. MOUNTING HARDWARE SHALL BE UNPAINTED ALUMINUM. ALL BOLTS, SCREWS, NUTS AND WASHERS SHALL BE STAINLESS STEEL. ANTI-SEIZE PASTE COMPOUND SHALL BE USED ON ALL MOUNTING HARDWARE FIELD CONNECTIONS.
2. BACKPLATES SHALL BE ABS PLASTIC.
3. THE CONTROLLER CABINET SHALL BE UNPAINTED ALUMINUM.
4. THE LOCATION OF MAST ARM SUPPORTS SHALL BE APPROVED BY THE ENGINEER BEFORE FOUNDATIONS ARE CONSTRUCTED. MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 10 FEET FROM THE EDGE OF PAVEMENT OR 2 FEET FROM THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER. IN CURBED SECTIONS, THE MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 5 FEET FROM THE FACE OF THE CURB. THESE DISTANCES ARE TO THE NEAR FACE OF THE MAST ARM POLE.
5. ALL TRAFFIC SIGNAL CABLES SHALL BE #14 AWG STRANDED COPPER UNLESS OTHERWISE SPECIFIED.
6. THE LOCATION OF ALL DETECTOR LOOPS SHALL BE APPROVED BY THE ENGINEER BEFORE ANY SLOTS ARE SAWED IN THE PAVEMENT.
7. DETECTOR LOOP LEAD-IN SPLICES SHALL BE MADE IN A HANDHOLE PER SECTION 873 OF THE STANDARD SPECIFICATIONS. CONDUCTORS SHALL BE SPLICED IN A RIGID MOLD FILLED WITH NON-HARDENING EPOXY FILLER. ROSIN-CORE SOLDER SHALL BE USED.
8. CALL DELAY SHALL NOT FUNCTION WHEN THE RELATED PHASES ARE IN THE GREEN MODE.
9. CALL CARRY-OVER SHALL FUNCTION ONLY WHEN THE RELATED PHASES ARE IN THE GREEN MODE.
10. ALL INDUCTIVE LOOP DETECTORS SUPPLIED FOR THIS PROJECT SHALL HAVE THE CAPACITY OF OPERATING WITH BOTH DELAY AND EXTENSION MODES ACTIVE, IF A TIME SETTING IS PROGRAMMED. THEY SHALL BE RACK MOUNTED.
11. ALL HANDHOLES SHALL BE CAST-IN-PLACE PORTLAND CEMENT CONCRETE (PER ARTICLE 814.03(b)). THE CAST IN PLACE LEGEND IN THE COVER SHALL BE "TRAFFIC SIGNALS". SLOPE HANDHOLE COVERS TO MATCH PROPOSED GRADE ELEVATIONS.
12. ILLINOIS STATE LAW REQUIRES A 48 HOUR NOTICE BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS LISTED IN THE GENERAL NOTES.
- NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.
13. LOCATE UNDERGROUND CABLES PRIOR TO ATTEMPTING TO CONSTRUCT THIS PROJECT.
14. THE LOCATIONS OF THE SIGNAL HEADS ON MAST ARMS SHALL BE APPROVED BY THE ENGINEER BEFORE MAST ARMS ARE INSTALLED.
15. SEE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND CONSTRUCTION SEQUENCING REQUIREMENTS.
16. DEPTHS OF THE 36" CONCRETE FOUNDATIONS FOR THE MAST ARM SUPPORT POLES ARE AS FOLLOWS:

1. N-W CORNER: 13'-0" DEEP

2. S-E CORNER: 15'-0" DEEP

3. S-W CORNER: 13'-0" DEEP

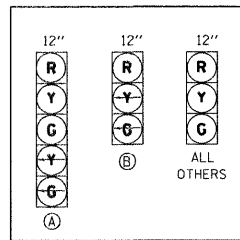
SCHEDULE OF QUANTITIES

CODE NO.	ITEM	ABBREVIATED ITEM NAME	UNIT	TOTAL QUANTITIES
44003900	MEDIAN SURFACE REMOVAL AND REPLACEMENT	MED SURF REM & REPL	SQ FT	1003
80300100	LOCATING UNDERGROUND CABLE	LOCATE UNDERGR CABLE	FOOT	200
80400105	ELECTRIC SERVICE INSTALLATION, SPECIAL	ELECT SERV INSTALL SP	EACH	1
81000300	CONDUIT IN TRENCH, 1" DIA., GALVANIZED STEEL	CON T 1 GALVS	FOOT	14
81000500	CONDUIT IN TRENCH, 1 1/2" DIA., GALVANIZED STEEL	CON T 1 1/2 GALVS	FOOT	14
81012300	CONDUIT IN TRENCH, 1" DIA., PVC	CON T 1 PVC	FOOT	1250
81012400	CONDUIT IN TRENCH, 1 1/4" DIA., PVC	CON T 1 1/4 PVC	FOOT	13
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	CON T 2 PVC	FOOT	61
81012800	CONDUIT IN TRENCH, 3" DIA., PVC	CON T 3 PVC	FOOT	28
81012900	CONDUIT IN TRENCH, 3 1/2" DIA., PVC	CON T 3 1/2 PVC	FOOT	70
81013000	CONDUIT IN TRENCH, 4" DIA., PVC	CON T 4 PVC	FOOT	8
81013100	CONDUIT IN TRENCH, 5" DIA., PVC	CON T 5 PVC	FOOT	23
81013200	CONDUIT PUSHED, 1" DIA., GALVANIZED STEEL	CON P 1 GALVS	FOOT	48
81013500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	CON P 2 GALVS	FOOT	235
81013700	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	CON P 3 GALVS	FOOT	40
81013800	CONDUIT PUSHED, 3 1/2" DIA., GALVANIZED STEEL	CON P 3 1/2 GALVS	FOOT	149
81013900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	CON P 4 GALVS	FOOT	62
81019000	CONDUIT PUSHED, 5" DIA., GALVANIZED STEEL	CON P 5 GALVS	FOOT	95
81400100	HANDHOLE	HANDHOLE	EACH	11
81400300	DOUBLE HANDHOLE	DBL HANDHOLE	EACH	1
81900205	TRENCH AND BACKFILL FOR ELECTRICAL WORK (SPECIAL)	TR & BKFIL ELEC W SPL	FOOT	1481
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	FAC T4 CAB	EACH	1
85706000	INTERSECTION MONITOR UNIT	INTERSEC MONITOR UNIT	EACH	1
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	ELCBL C SIGNAL 14 5C	FOOT	6433
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	ELCBL C SIGNAL 14 7C	FOOT	1702
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	ELCBL C LEAD 14 1PR	FOOT	6661
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	ELCBL C SERV 6 2C	FOOT	14
87502680	TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	TS POST A 14	EACH	1
87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	S MAA & P 34	EACH	1
87700230	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	S MAA & P 42	EACH	1
87700250	STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	S MAA & P 50	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	CONC FDN TY A	FOOT	3
87800200	CONCRETE FOUNDATION, TYPE D	CONC FDN TY D	FOOT	3
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	CONC FDN TY E 36D	FOOT	41
87900200	DRILL EXISTING HANDHOLE	DRILL EX HANDHOLE	EACH	4
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	SH P LED 1F 3S BM	EACH	7
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	SH P LED 1F 3S MAM	EACH	6
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	SH P LED 1F 5S BM	EACH	2
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	SH P LED 1F 5S MAM	EACH	2
88200100	TRAFFIC SIGNAL BACKPLATE	TS BACKPLATE	EACH	8
88500100	INDUCTIVE LOOP DETECTOR	INDUCTIVE LOOP DETECT	EACH	17
88600100	DETECTOR LOOP, TYPE I	DET LOOP T1	FOOT	1466
89000105	TEMPORARY TRAFFIC SIGNAL INSTALLATION (SPECIAL)	TEMP TR SIG INSTAL SP	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	REMOV EX TS EQUIP	EACH	1
89502380	REMOVE EXISTING HANDHOLE	REMOV EX HANDHOLE	EACH	9
89502385	REMOVE EXISTING CONCRETE FOUNDATION	REMOV EX CONC FDN	EACH	8
X7240500	RELOCATE EXISTING SIGNS	RELOC EX SIGNS	EACH	3

DETECTOR LOOP REQUIREMENTS AND CALCULATIONS

NUMBER	LOOP	PHASE	SIZE	TURNS	INDUCTANCE	RESISTANCE
					(Microhenries)	(Ohms)
1	EB LT	7	6 X 50	3,6,3	988.06	4.07
2	EB TH #1	4	6 X 50	3,6,3	985.75	4.04
3	EB TH #2	4	6 X 50	3,6,3	983.44	4.01
4	EB RT	4	6 X 50	3,6,3	979.03	3.95
5	NB LT	5	6 X 50	3,6,3	953.62	3.59
6	WB LT	3	6 X 50	3,6,3	907.63	2.96
11	WB TH #1	8	6 X 50	3,6,3	912.25	3.02
12	WB TH #2	8	6 X 50	3,6,3	914.77	3.06

FILE NAME = #FILEL#	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL PLANS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -						674	410-I-N	ST. CLAIR	58	46	
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	PLOT DATE = #DATE#	DATE -	REVISED -		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT							



PROPOSED TRAFFIC
SIGNAL FACES

SEIBERT ROAD

CCO 1

2/C LD-IN

SIGNAL 14 5C

SIGNAL 14 5C

SIGNAL 14 7C

CCO 2

2/C LD-IN

2/C LD-IN

2/C LD-IN

2/C LD-IN

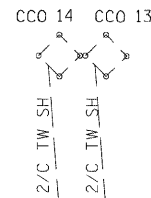
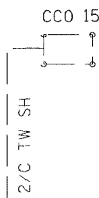
2/C LD-IN

SIGNAL 14 7C

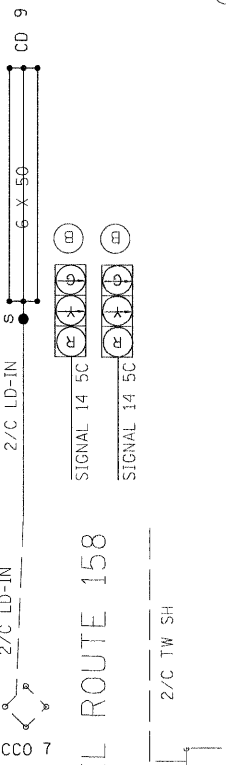
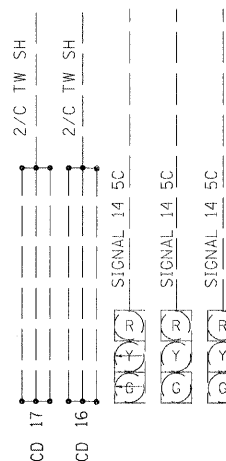
SIGNAL 14 5C

CABLE DIAGRAM LEGEND

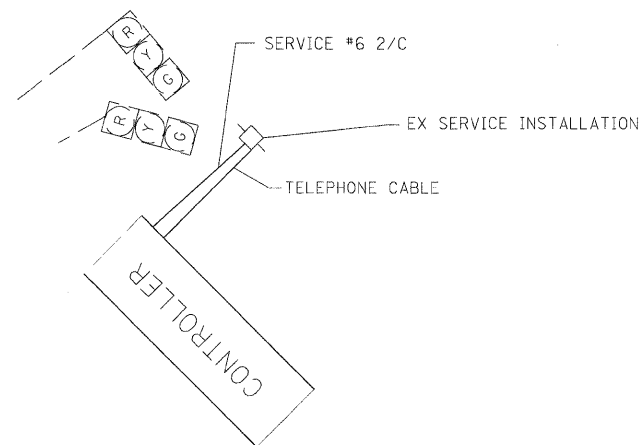
- ELECTRIC CABLE IN CONDUIT
- EXISTING ELECTRIC CABLE IN CONDUIT
- CABLE SPLICE (SEE GENERAL NOTES)
- 2/C INDICATES NUMBER OF CONDUCTORS IN CABLE
- LD IN ELECTRIC CABLE LEAD-IN, 1 PAIR
- CD CALL DELAY
- CCO CALL CARRY OVER
- EXISTING SERVICE INSTALLATION
- *6 INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTORS (SEE GENERAL NOTES)



IL ROUTE 158



IL ROUTE 158



SIGNAL 14 5C
SIGNAL 14 7C

CD 12 6 X 50 2/C LD-IN
CD 11 6 X 50 2/C LD-IN
CD 10 6 X 50 2/C LD-IN
SIGNAL 14 7C
SIGNAL 14 5C
SIGNAL 14 5C

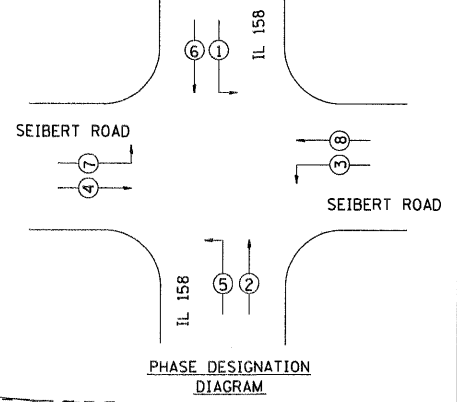
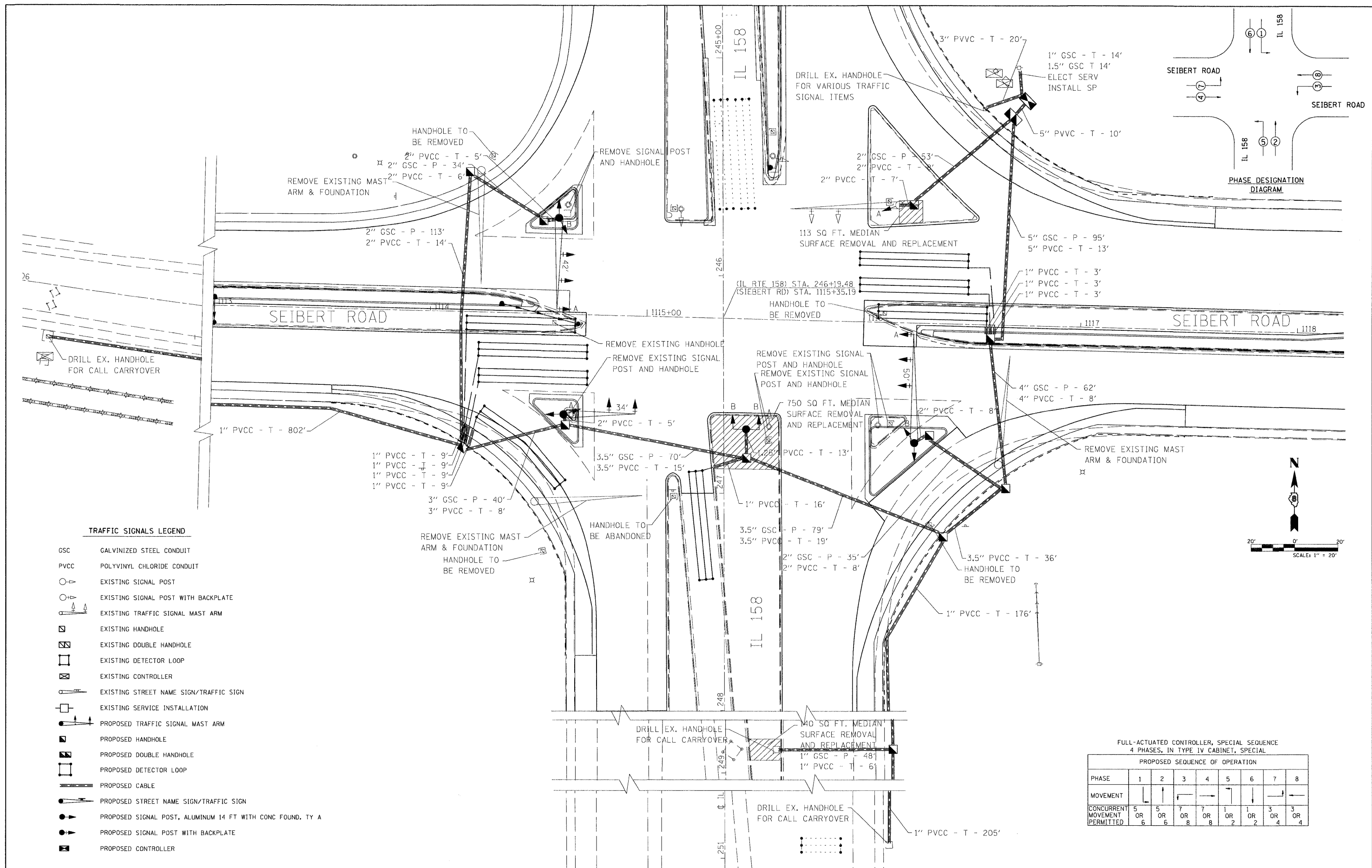
SIGNAL 14 5C
SIGNAL 14 5C



SEIBERT ROAD

CABLE DIAGRAM

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CABLE DIAGRAM		F.A.P. RTE. 674	SECTION 410-1-N	COUNTY ST. CLAIR	TOTAL SHEETS 58	SHEET NO. 47
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	PLOT DATE = #DATE#	CHECKED -	REVISED -						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
		DATE -	REVISED -								



TRAFFIC SIGNALS LEGEND

- GSC GALVANIZED STEEL CONDUIT
- PVCC POLYVINYL CHLORIDE CONDUIT
- EXISTING SIGNAL POST
- EXISTING SIGNAL POST WITH BACKPLATE
- EXISTING TRAFFIC SIGNAL MAST ARM
- EXISTING HANDHOLE
- EXISTING DOUBLE HANDHOLE
- EXISTING DETECTOR LOOP
- EXISTING CONTROLLER
- EXISTING STREET NAME SIGN/TRAFFIC SIGN
- EXISTING SERVICE INSTALLATION
- PROPOSED TRAFFIC SIGNAL MAST ARM
- PROPOSED HANDHOLE
- PROPOSED DOUBLE HANDHOLE
- PROPOSED DETECTOR LOOP
- PROPOSED CABLE
- PROPOSED STREET NAME SIGN/TRAFFIC SIGN
- PROPOSED SIGNAL POST, ALUMINUM 14 FT WITH CONC FOUND. TY A
- PROPOSED SIGNAL POST WITH BACKPLATE
- PROPOSED CONTROLLER

FULL-ACTUATED CONTROLLER, SPECIAL SEQUENCE
4 PHASES, IN TYPE IV CABINET, SPECIAL

PROPOSED SEQUENCE OF OPERATION								
PHASE	1	2	3	4	5	6	7	8
MOVEMENT	↓	↑	←	→	↓	↑	←	→
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	7 OR 8	7 OR 8	1 OR 2	1 OR 2	3 OR 4	3 OR 4



Illinois Department of Transportation

Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

ROUTE 674DESCRIPTION Traffic Signals at IL 158 and Seibert RoadLOGGED BY Larry Ford

SECTION 410-1-NLOCATION SW 14, NE 14, SEC. 9, TWP. 1N, RNG. 7W, 3 PM

COUNTY St. ClairDRILLING METHOD Hollow Stem AugerHAMMER TYPE 140# Automatic

STRUCT. NO. NASTATION NABORING NO. B-4Station 1114.451Offset 90.00ft RightGround Surface Elev. 484.4 ft

DEPTH (ft)BLUCLCSTWSTHSQuT

10.026

1.0

26

S15

480.4

0.729

1.2

23

S15

0.626

1.0

25

S15

468.4

1.025

S15

Surface Water Elev. ft

Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion 475.4 ft
After Hrs. ft

Gray and Brown Silty CLAY

2

3

5

480.4

Brown and Gray Silty Clay LOAM

2

3

3

4

5

10

1

2

3

2

4

5

15

2

3

4

468.4

END OF BORING

20

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
BBS, from 137 (Rev. 8-99)

FILE NAME =
c:\pw\work\NPWIDOT\LEWISKA\dms74914\d8763-sht-biog.dgn

USER NAME = lewiska

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SOIL BORING LOGS

F.A.P. RTE. 674

SECTION 410-1-N

COUNTY ST. CLAIR

TOTAL SHEETS 58

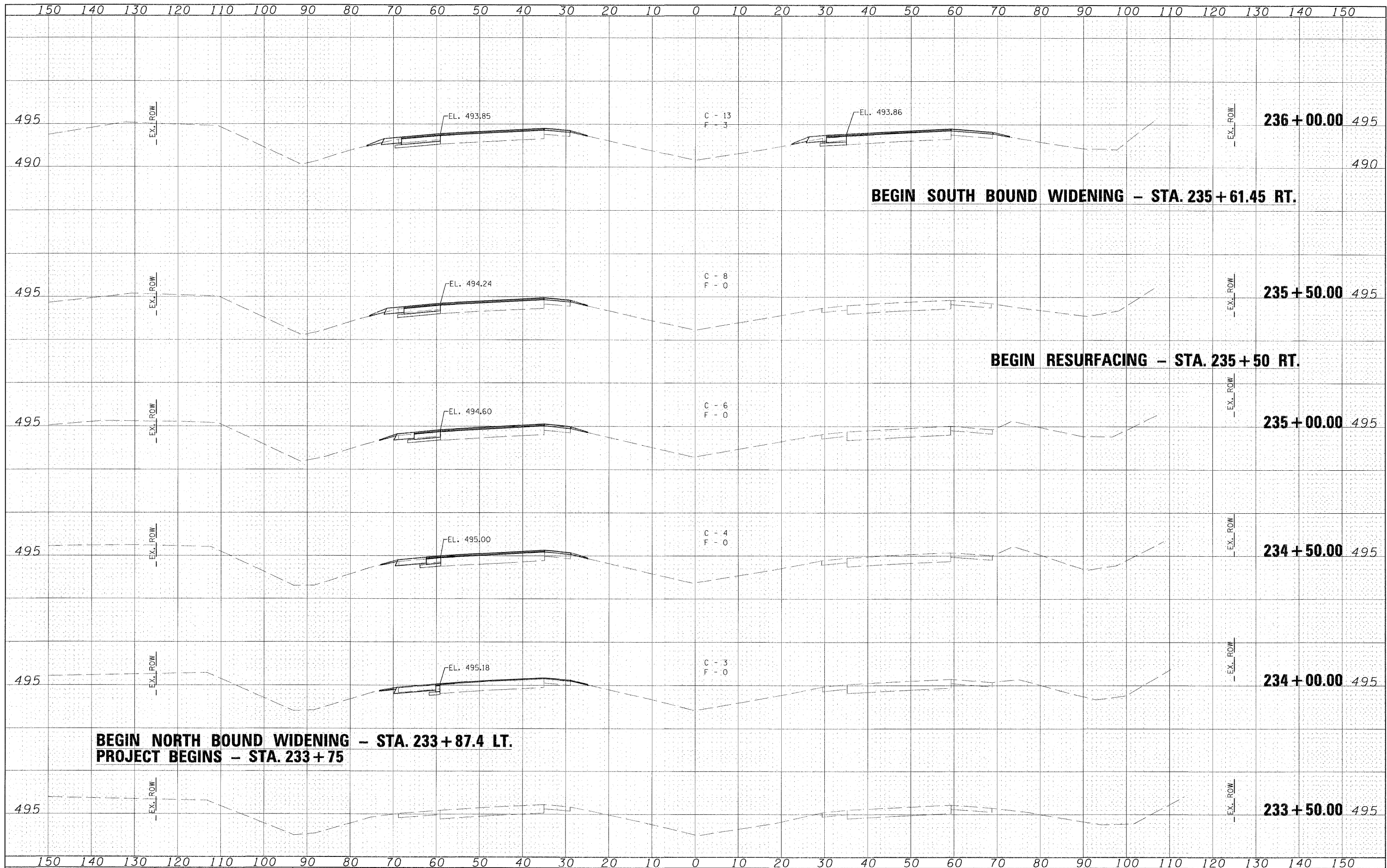
SHEET NO. 488

CONTRACT NO. 76C63

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

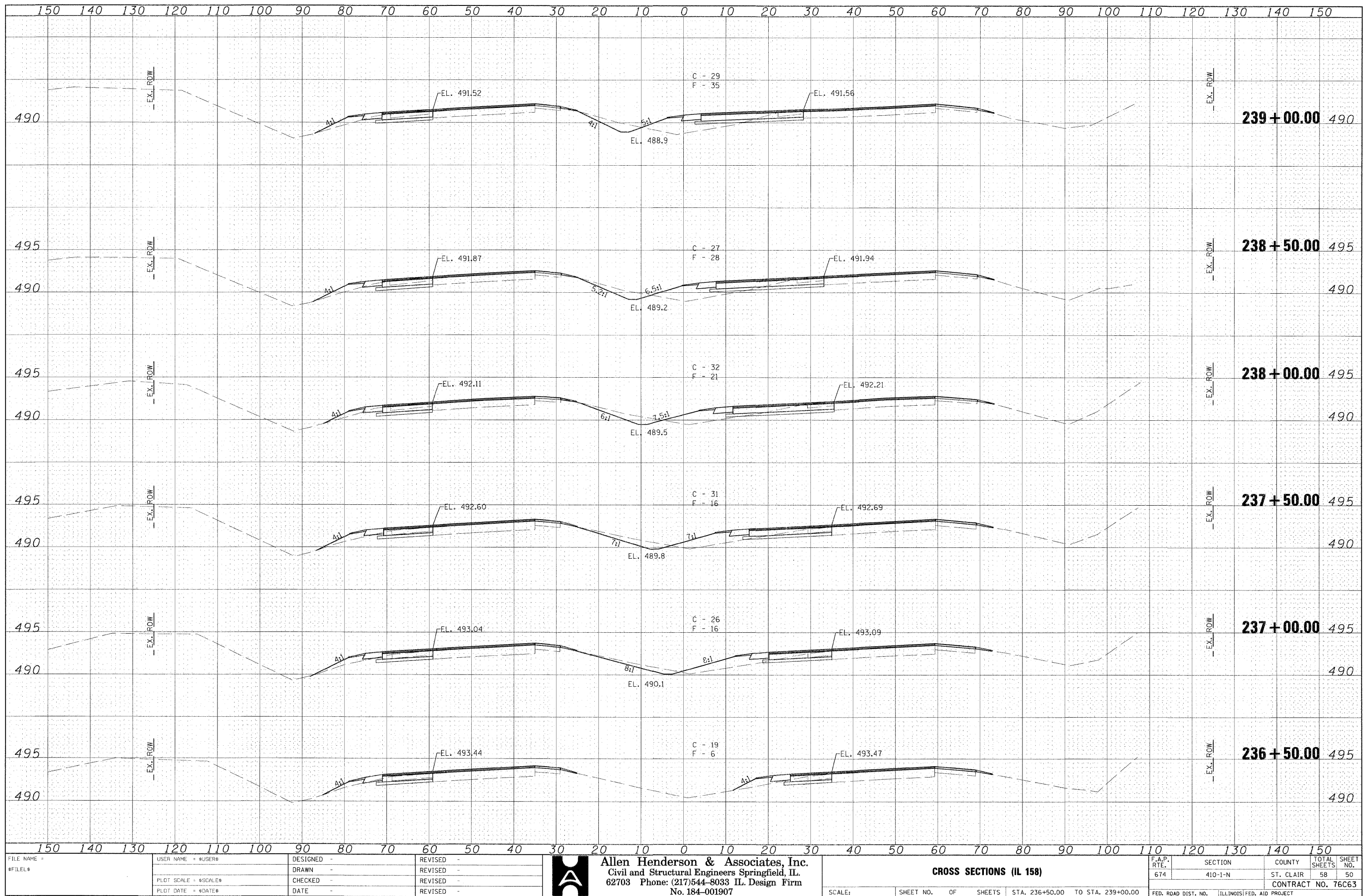
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DATE	BY	ORIGINAL	SURVEY	NOTED	PLOTTED	TEMP	AREAS	CHECKED

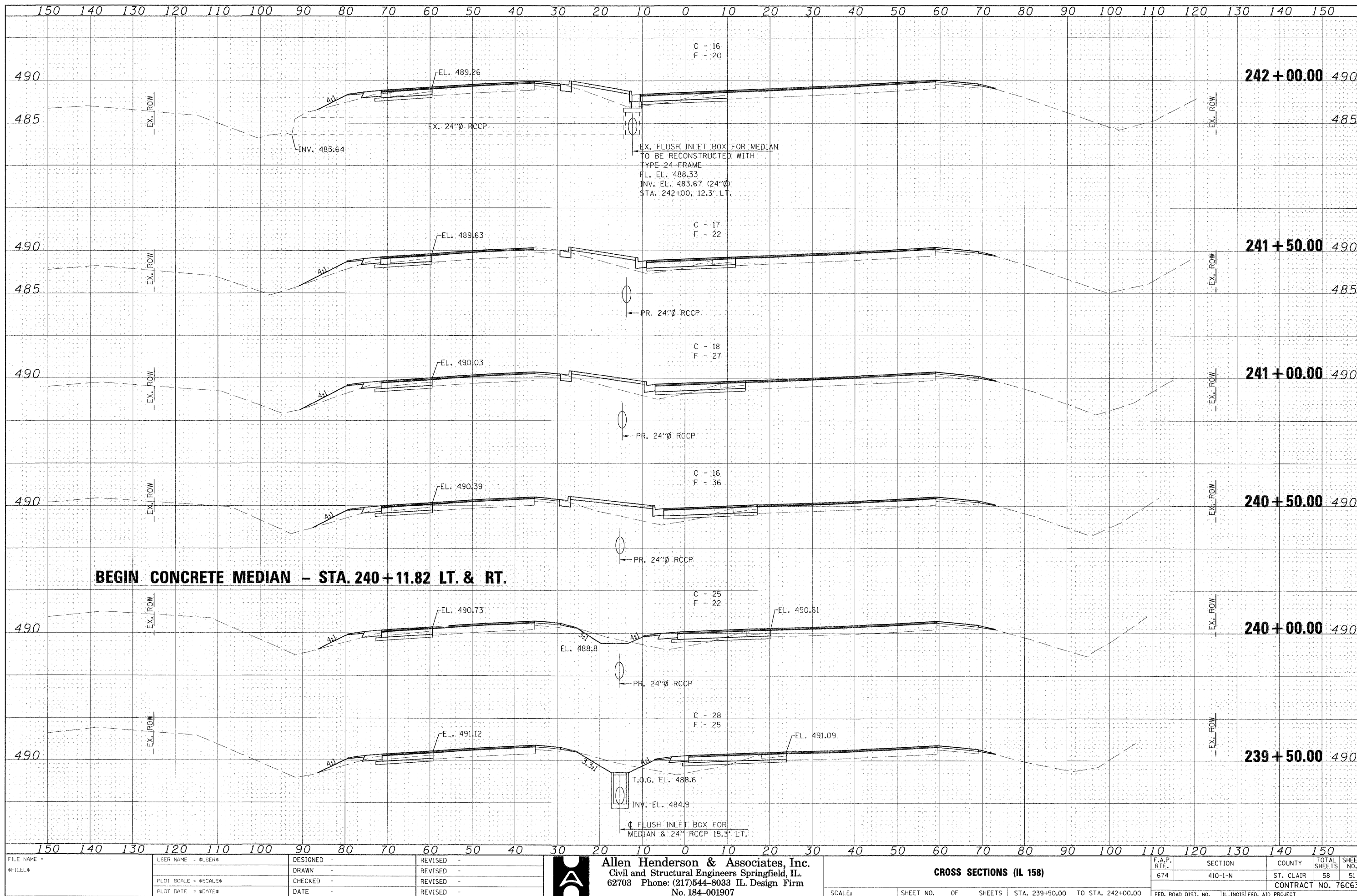


FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	CROSS SECTIONS (IL 158)					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN -	REVISED -							674	410-1-N	ST. CLAIR	58	49
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	PLOT DATE = \$DATE\$	DATE -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. 233+50.00	TO STA. 236+00.00	FED. ROAD DIST. NO.	ILLINOIS	FED. AID	PROJECT

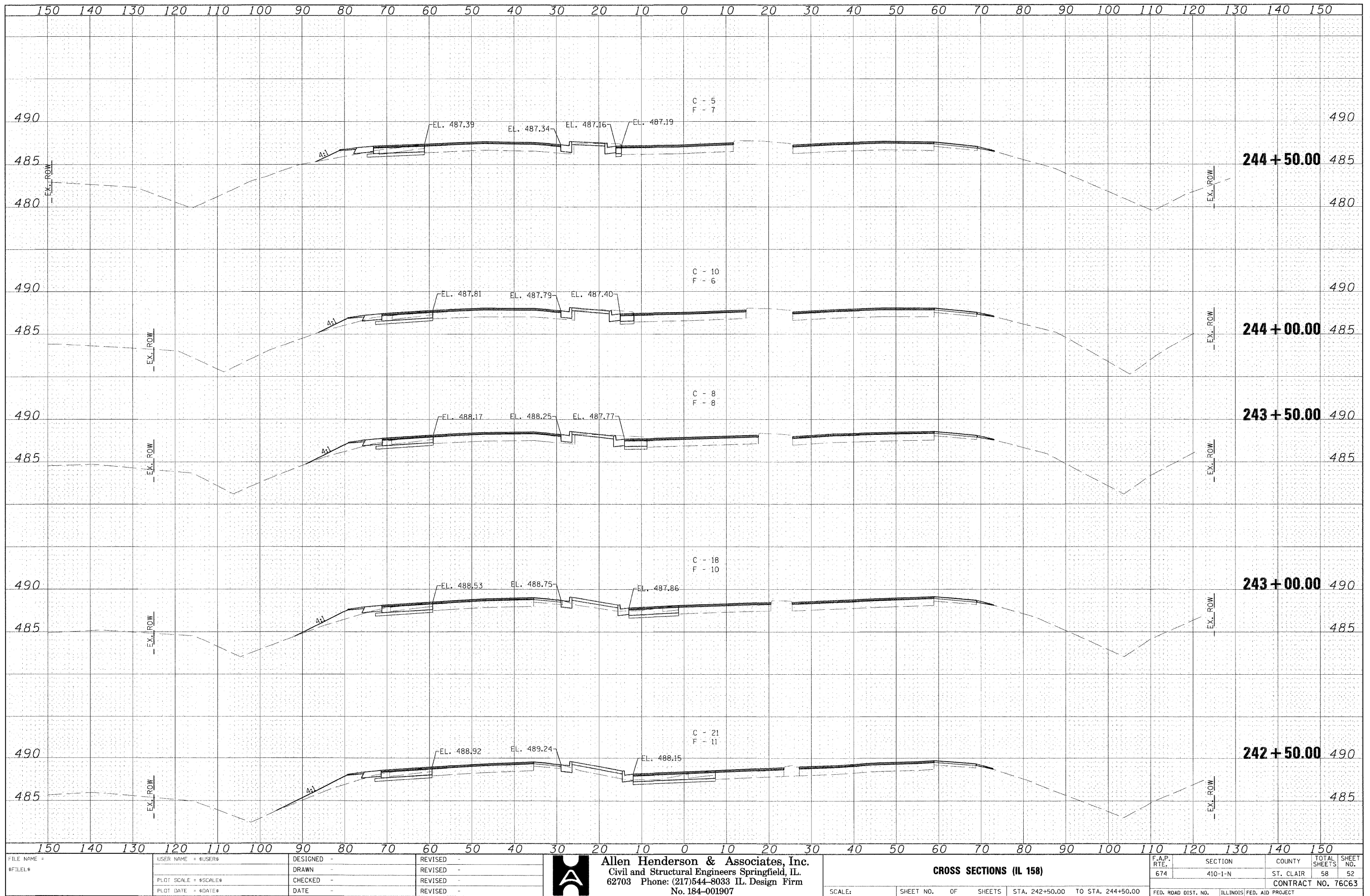
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		



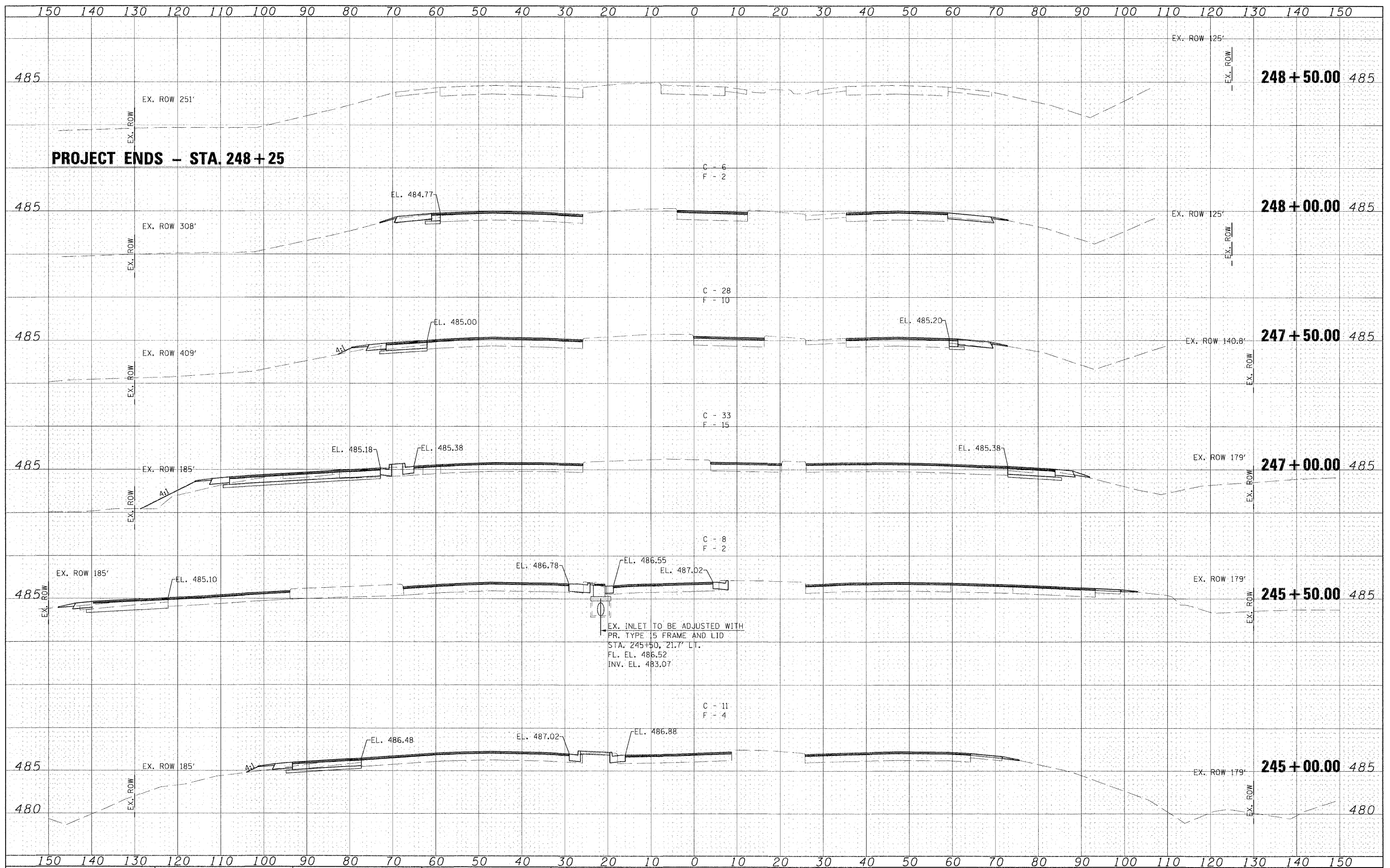
ORIGINAL					
SURVEY	SUPPLIED		BY		DATE
	PLOTTED				
NOTE BOOK	TEMPLATE				
	AREAS				
	AREAS CHECKED				
NO.					



ORIGINAL	BY _____	DATE _____
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
NO. _____	AREAS CHECKED _____	

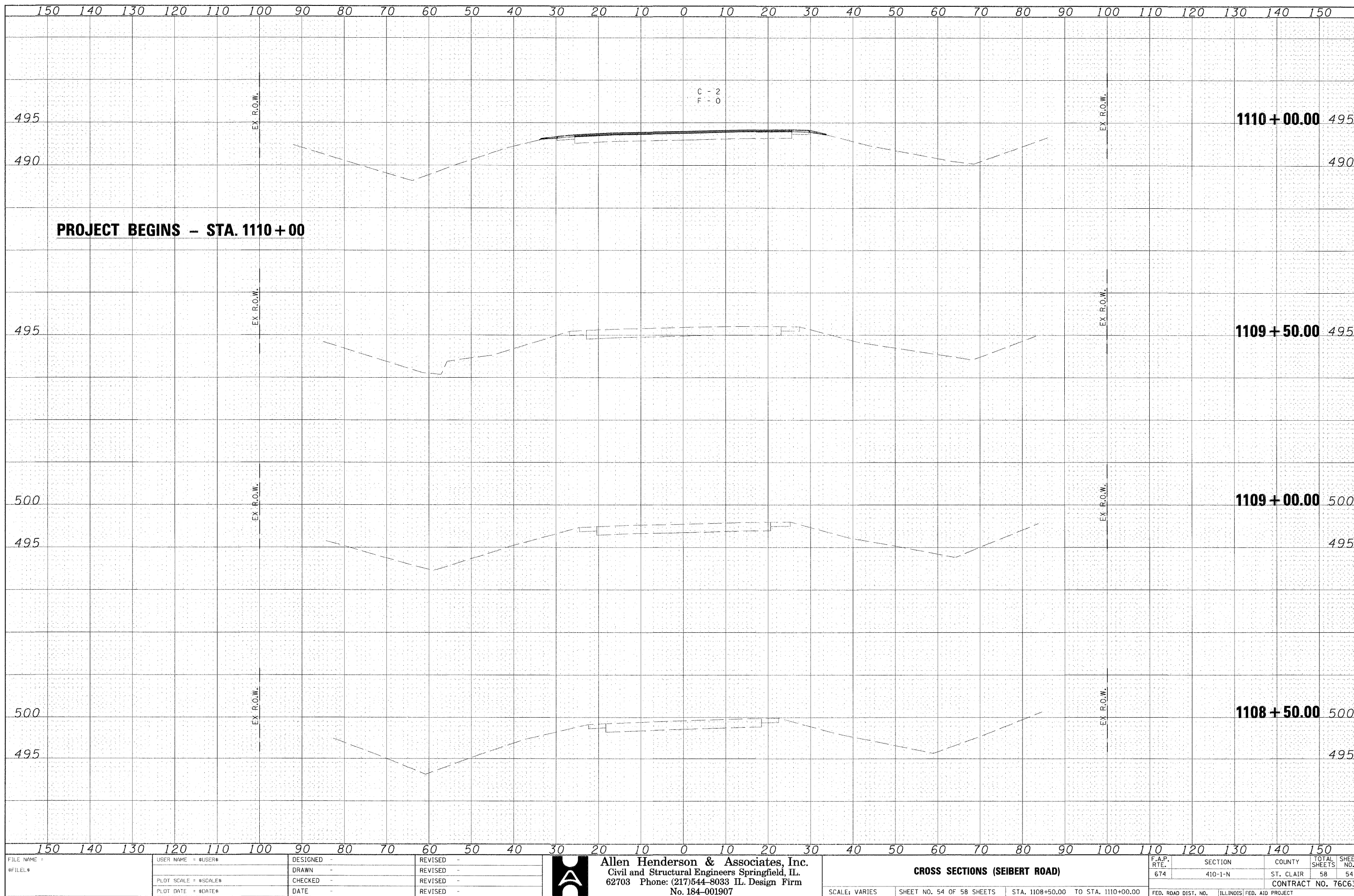


ORIGINAL	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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NO.	AREAS CHECKED		



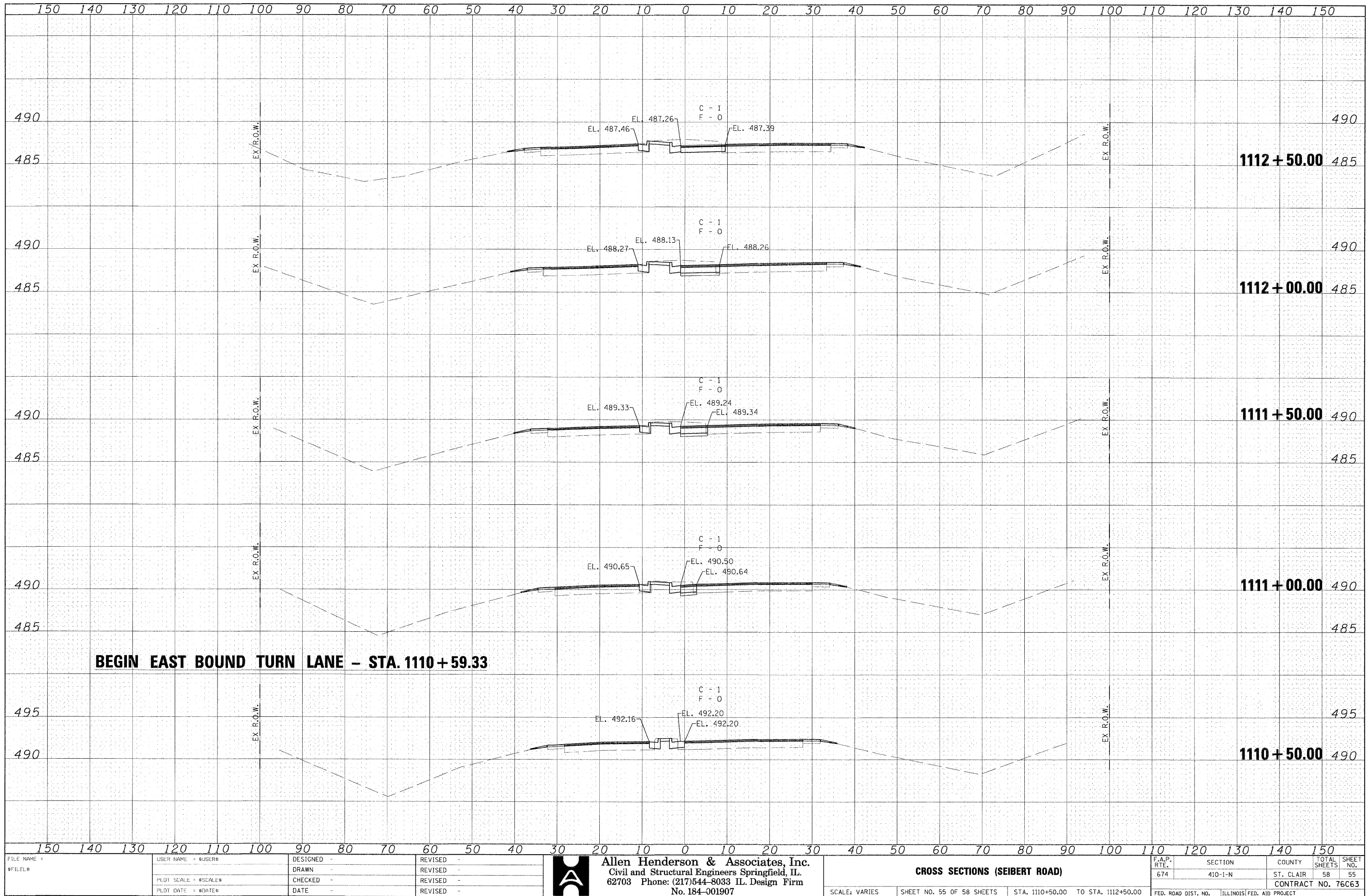
FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED -	REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	CROSS SECTIONS (IL 158)				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#	DRAWN -	REVISED -		674	410-1-N	ST. CLAIR	58	53				
	PLOT DATE = #DATE#	CHECKED -	REVISED -		CONTRACT NO. 76C63								
		DATE -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA. 245+00.00 TO STA. 248+50.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

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

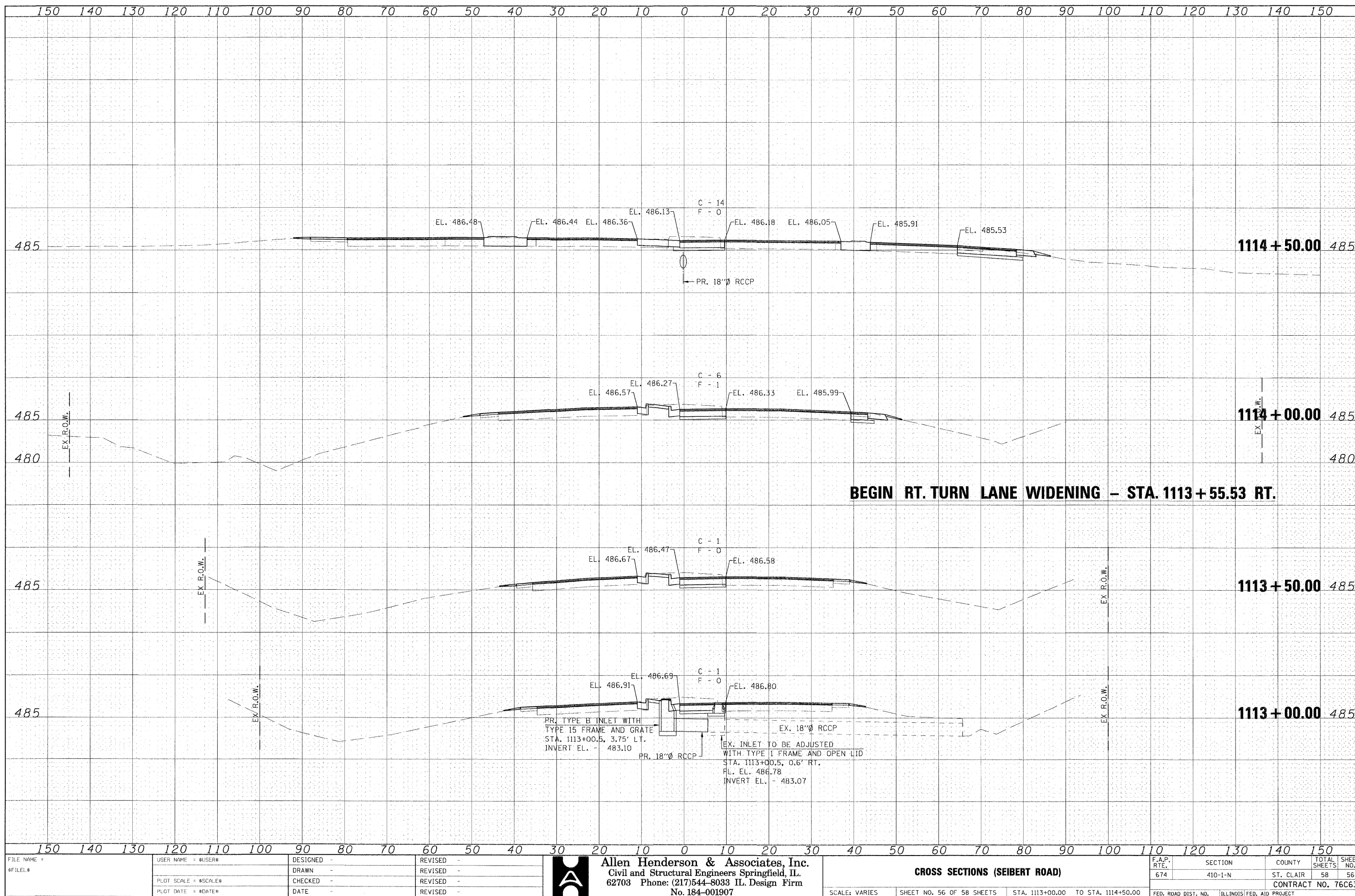


DATE	BY	NO.
FINAL SURVEY	SURVEYED	PLOTTED
NOTE BOOK	TEMPLATE	AREAS
		CHECKED

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

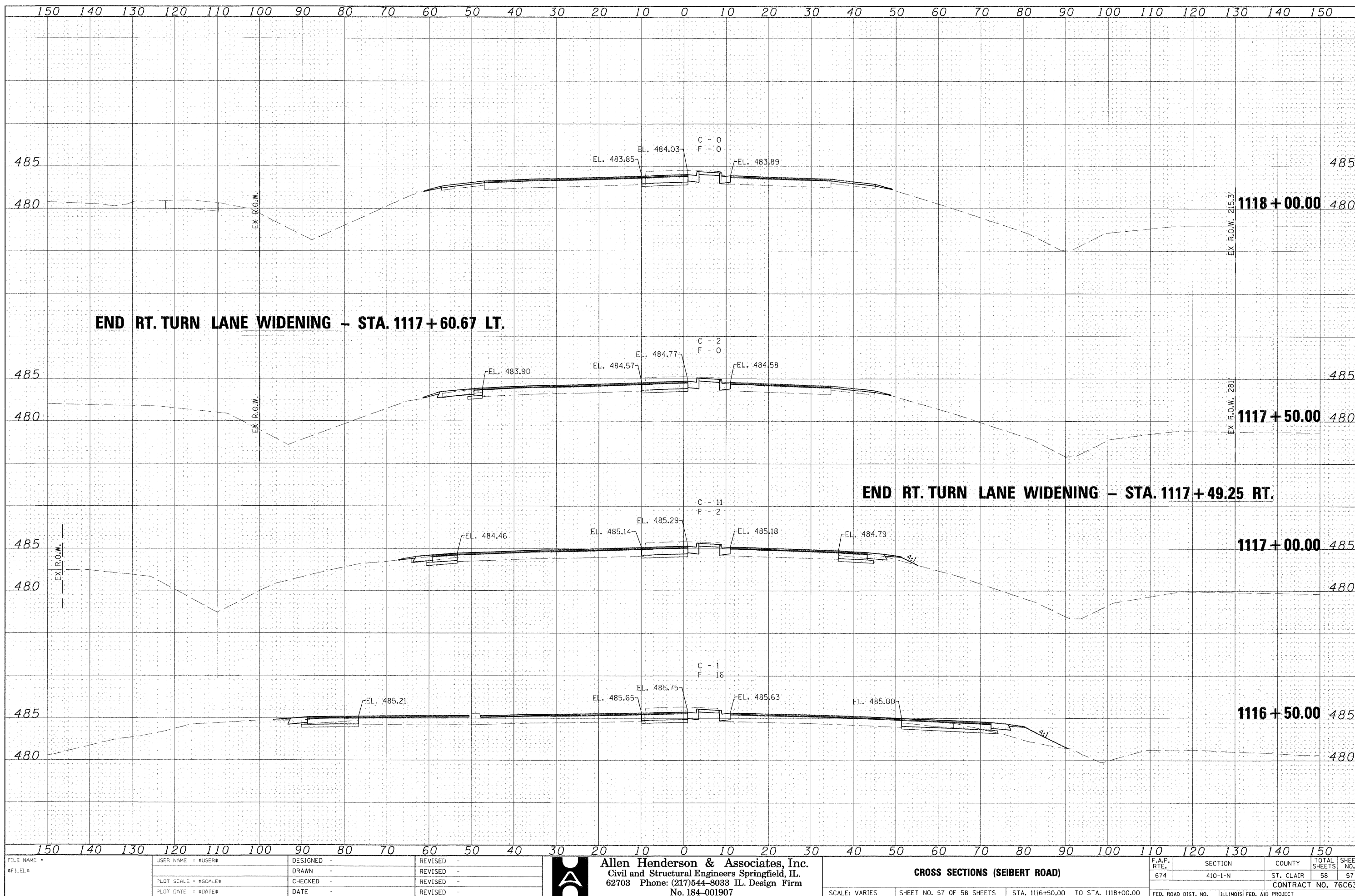


ORIGINAL SURVEY		SURVEYED	BY	DATE
NOTE BOOK		PLOTTED		
		TEMPLATE		
		AREAS		
NO.		AREAS CHECKED		



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

ORIGINAL		BY	DATE
SURVIVED			
PLOTTED			
TEMPLE			
AREAS			
AREAS CHECKED			
NO.			



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

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

