

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(24Z)RS-4, N; 116RS-5	LOGAN	32	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 72998		

INDEX OF SHEETS

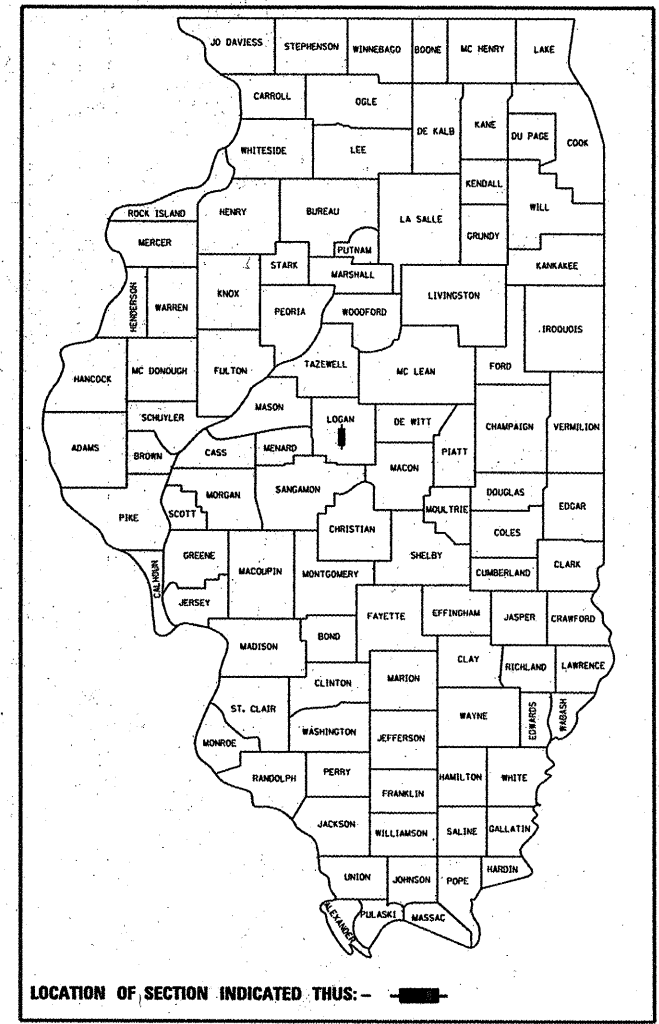
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

**PROPOSED
HIGHWAY PLANS**

**FAP ROUTE 320 - (IL. 121) & FAP ROUTE 717 (IL. 10)
SECTION (24Z)RS-4, N; 116RS-5**

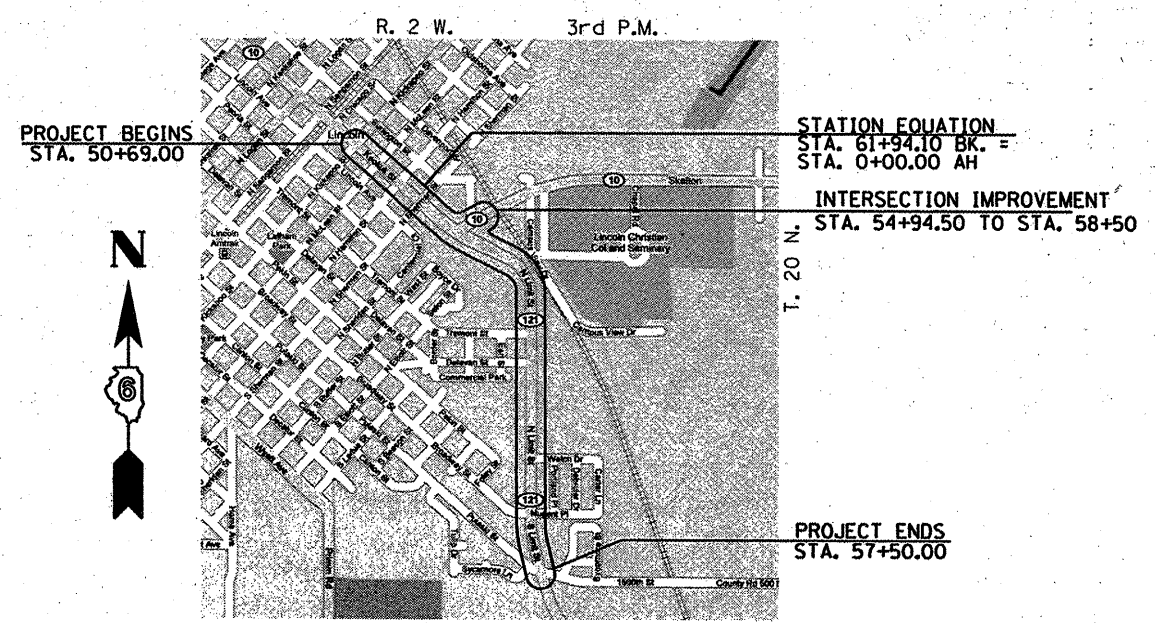
D-96-530-05



LIST OF ILLINOIS DOT HIGHWAY STANDARDS

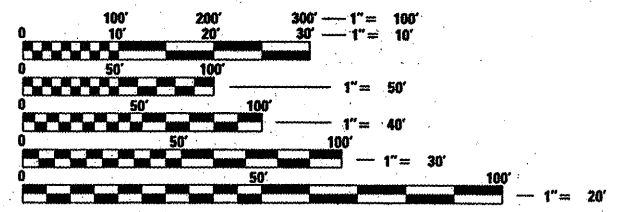
000001-05	606201-02
001006	701201-03
280001-05	701306-02
353001-04	701311-03
482011-03	701326-03
542301-02	701501-05
542501-02	701601-06
602301-02	701602-04
602306-02	701606-06
602401-02	701701-06
604001-03	701801-04
604006-04	701901-01
604106-01	780001-02
606001-04	781001-03

**LOGAN COUNTY
C-96-502-10**



LOCATION MAP

LENGTH OF SECTION - 6875.10 FEET = 1.302 MILES



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

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

PROJECT ENGINEER: JOHN NEGANGARD 217-782-6990
SQUAD LEADER: VICTOR YOUNG 217-557-7897

CONTRACT NO. 72998

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

Christopher P. Koblus 11/30/2011
EXPIRATION: 11/30/2011

ADT = 5,628 (2003)
% SU = 8.0 (2003)
% MU = 5.0 (2003)
MUNICIPALITY: LINCOLN
FUNCTIONAL CLASSIFICATION: OTHER PRINCIPAL ARTERIAL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED March 17 2010
Roger Zombak
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 7 2010
Scott E. Stitt, P.E.
acting ENGINEER OF DESIGN AND ENVIRONMENT

May 7 2010
Christine M. Reeder
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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ENVIRONMENTAL REVIEWS

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS, (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS WILL NEED TO BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- BDE FORM 2289 (ENVIRONMENTAL SURVEY REQUEST)
- A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- SIGNED PROPERTY OWNER AGREEMENT FORM
- COLOR PHOTOGRAPHS DEPICTING THE USE AREA

PLEASE NOTE THAT A MINIMUM OF TWO WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED ENVIRONMENTAL CLEARANCES.

PROPERTY OWNER ACCESS REQUIREMENT

ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.

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.) WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER OR AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
- 4.) 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.
- 5.) 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 1/2" UNLESS OTHERWISE SPECIFIED IN A DETAIL SHOWN IN THE PLANS.
- 6.) 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.
- 7.) 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 SEPARATELY BUT SHALL BE INCLUDED IN THE COST PER CUBIC YARD FOR EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 8.) ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED IN THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
- 9.) 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.
- 10.) 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.
- 11.) 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.
- 12.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E. NUMBER IS 800-892-0123. A MINIMUM OF FORTY-EIGHT HOURS ADVANCE NOTICE IS REQUIRED.
- 13.) 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.
- 14.) THE DISTRICT BUREAU OF OPERATIONS SHALL BE NOTIFIED AT LEAST 14 DAYS PRIOR TO PLACEMENT OF FINAL PAVEMENT MARKINGS (PH: 217-785-5312)
- 15.) QUANTITY FOR EARTH EXCAVATION INCLUDES ANY EXCAVATION NECESSARY TO PLACE PORTLAND CEMENT CONCRETE BASE COURSE.

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)	HOT MIX ASPHALT SURFACE COURSE, MIX "D", N70	HOT MIX ASPHALT LEVELING BINDER	INCIDENTAL SURFACING COURSE	HOT MIX ASPHALT PATCHING
AC/PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N DESIGN = 70	4.0% @ N DESIGN = 70	4.0% @ N DESIGN = 50	4.0% @ N DESIGN = 50
MIXTURE COMPOSITION	IL 9.5 OR 12.5	IL 9.5	IL 9.5 OR 12.5	IL 19.0
FRICITION AGGREGATE	MIX D	N/A	MIX C	N/A

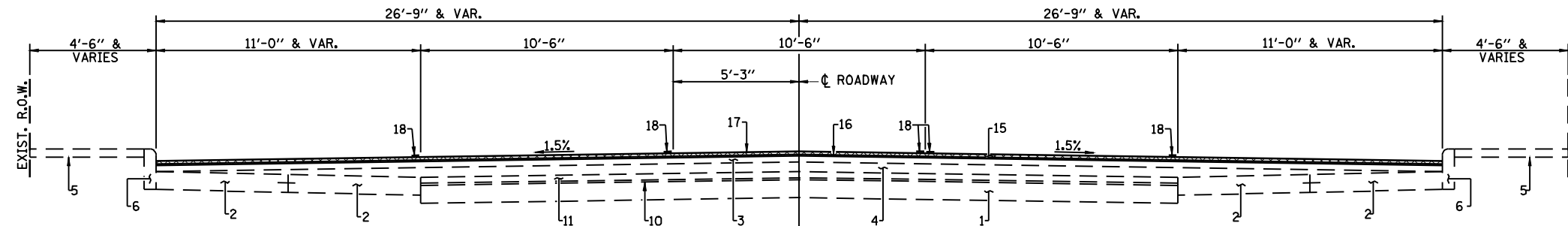
COMMITMENTS

- 1) THE FIELD/RESIDENT ENGINEER SHALL CONTACT STUDIES & PLANS CONCERNING ANY MAJOR PLAN CHANGES TO MAKE SURE NO PREVIOUS COMMITMENTS (NOT LISTED) WERE MADE AFFECTING THE DESIGN, AND TO ALLOW IMPROVEMENTS IN THE DESIGN FOR FUTURE PROJECTS.
- 2) INFORMATIONAL TO THE CITY OF LINCOLN

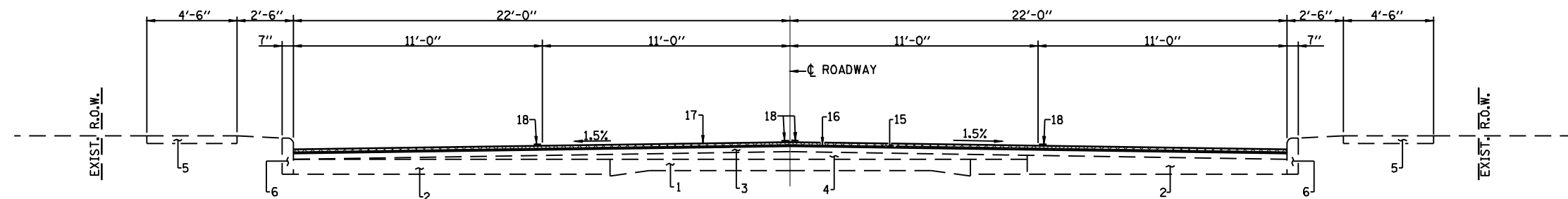
DISTRICT SIX	
EXAMINED <u>Sept 24</u> 20 <u>09</u>	
<i>Sam J. Hoase</i>	
OPERATIONS ENGINEER	
EXAMINED <u>October 15</u> 20 <u>09</u>	
<i>Sam J. Hoase</i>	
PROGRAM IMPLEMENTATION ENGINEER	
EXAMINED <u>March 15</u> 20 <u>10</u>	
<i>ARML</i>	
PROGRAM DEVELOPMENT ENGINEER	

SUMMARY OF QUANTITIES				ROADWAY FAP 662 80% FEDERAL 20% STATE	ROADWAY RESURFACING PARKING LANES 50% STATE 50% VILLAGE
CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE 1000-2A	CONSTRUCTION TYPE CODE 1000-2A
20200100	EARTH EXCAVATION	CU. YD.	419	419	
20800150	TRENCH BACKFILL	CU. YD.	32	32	
25000200	SEEDING, CLASS 2	ACRE	0.2	0.2	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	18	18	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	18	18	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	18	18	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.4	0.4	
25100125	MULCH, METHOD 3	ACRE	0.2	0.2	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	50	50	
31100500	SUB-BASE GRANULAR MATERIAL, TYPE A 6"	SQ. YD.	383	383	
35300700	PORTLAND CEMENT CONCRETE BASE COURSE 12"	SQ. YD.	446	446	
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	14.31	12.55	1.76
40600300	AGGREGATE (PRIME COAT)	TON	75.31	66.09	9.22
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	1455	1261	194
40600895	CONSTRUCTING TEST STRIP	EACH	1	1	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ. YD.	537	537	
40600990	TEMPORARY RAMP	SQ. YD.	269	269	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	2910	2523	387
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	431	431	
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ. FT.	1986	1986	
42400800	DETECTABLE WARNINGS	SQ. FT.	20	20	
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ. YD.	37119	32511	4608
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	410	410	
44000600	SIDEWALK REMOVAL	SQ. FT.	1617	1617	
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	1144	1144	
44003800	MEDIAN SURFACE REMOVAL	SQ. FT.	1998	1998	
44003900	MEDIAN SURFACE REMOVAL AND REPLACEMENT	SQ. FT.	1260	1260	
44200172	PAVEMENT PATCHING, TYPE III, 14 INCH	SQ. YD.	81	81	
44201407	CLASS C PATCHES, TYPE III, 14 INCH	SQ. YD.	80	80	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	33	33	
54200100	PIPE CULVERTS, CLASS A, TYPE 1 12"	FOOT	20	20	
54213657	PRECAST REINFORCED CONCRETE END SECTIONS 12"	EACH	1	1	
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	132	132	
56109210	WATER VALVES TO BE ADJUSTED	EACH	9	9	
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	1	1	
60240220	INLETS, TYPE B, TYPE 3 FRAME AND GRATE	EACH	1	1	

SUMMARY OF QUANTITIES				ROADWAY FAP 662 80% FEDERAL 20% STATE	ROADWAY RESURFACING PARKING LANES 50% STATE 50% VILLAGE
CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE 1000-2A	CONSTRUCTION TYPE CODE 1000-2A
60240366	INLETS, TYPE B, WITH MEDIAN INLET - (604106)	EACH	2	2	
60255500	MANHOLES TO BE ADJUSTED	EACH	23	23	
60262900	INLETS TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	1	1	
60500305	FILLING INLETS	EACH	3	3	
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	598	598	
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL. MO	8	8	
67100100	MOBILIZATION	L. SUM	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L. SUM	1	1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L. SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L. SUM	1	1	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L. SUM	1	1	
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L. SUM	1	1	
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L. SUM	1	1	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L. SUM	1	1	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L. SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL. DAY	10	10	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	2352	2352	
70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	13813	13813	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	4322	4322	
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	454	454	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	371	371	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ. FT.	776	776	
78000300	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	FOOT	12113	12113	
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	4322	4322	
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	454	454	
78004200	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS AND SYMBOLS	SQ. FT.	252	252	
78004220	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"	FOOT	1700	1700	
78004280	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"	FOOT	371	371	
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	257	257	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	257	257	
X5510100	STORM SEWER REMOVAL	FOOT	20	20	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L. SUM	1	1	
66900200	NON-SPECIAL WASTE DISPOSAL	CU. YD.	24	24	
66900450	SPECIAL WASTE PLANS AND REPORTS	L. SUM	1	1	
66900530	SOIL DISPOSAL AND ANALYSIS	EACH	1	1	



TYPICAL ROADWAY SECTION #1 (FAP ROUTES 320 & 717)
STA. 50+69.00 TO STA. 56+32.00

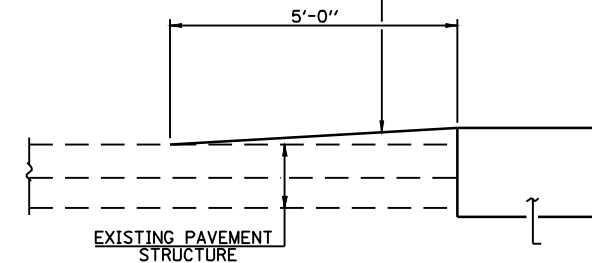


TYPICAL ROADWAY SECTION #2 (FAP ROUTES 320 & 717)
STA. 56+32.00 TO STA. 59+83.00

PAVEMENT LEGEND

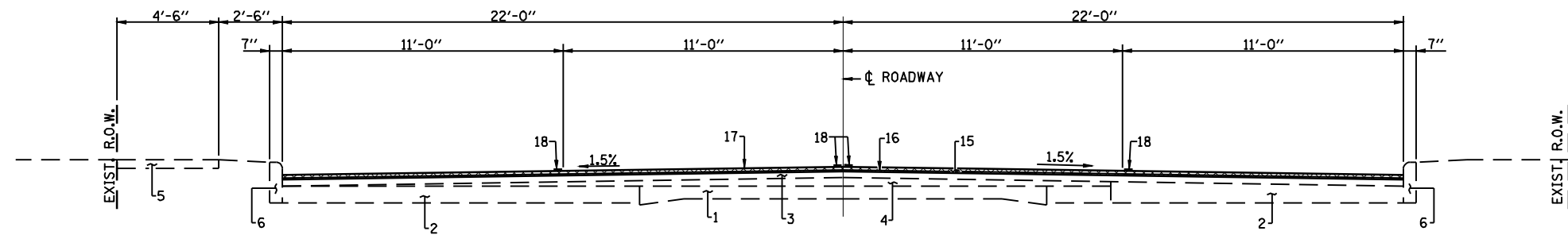
1. EXISTING PCC BASE COURSE 9"-6"-9"
2. EXISTING PCC BASE COURSE WIDENING 9"
3. EXISTING HOT MIX OVERLAY (± 5/4")
4. EXISTING HOT MIX ASPHALT BASE COURSE (VARIABLE DEPTH)
5. EXISTING PCC SIDEWALK (4")
6. EXISTING CONCRETE CURB, TYPE B
7. EXISTING CORRUGATED MEDIAN, COMB. C.&G., TYPE M 6.06
8. EXISTING CORRUGATED MEDIAN, COMB. CONC. C.&G. TYPE M-6.06 WITH 4" MED. SURF. OR CONC. MED. TYPE M-6.06
9. EXISTING COMB. CONCRETE CURB AND GUTTER
10. EXISTING SAND CUSHION
11. EXISTING BRICK COURSE
12. EXISTING SUB - BASE GRANULAR MATERIAL (4")
13. EXISTING AGGREGATE SHOULDER
14. EXISTING HOT MIX ASPHALT SHOULDER
15. PROPOSED HOT MIX ASPHALT SURFACE REMOVAL 2 1/4"
16. PROPOSED LEVELING BINDER (MACHINE METHOD), 3/4"
17. PROPOSED HOT MIX ASPHALT SURFACE COURSE, 1 1/2"
18. PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE 5"
19. PROPOSED PORTLAND CEMENT CONCRETE BASE COURSE 12"
20. PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 4"
21. PROPOSED COMBINATION CURB AND GUTTER, TYP B-6.18
22. PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE A (6")
23. PROPOSED AGGREGATE SHOULDER

TEMPORARY HOT MIX ASPHALT RAMP CONSTRUCTED IN ACCORDANCE WITH ARTICLES 406.08 - 406.14



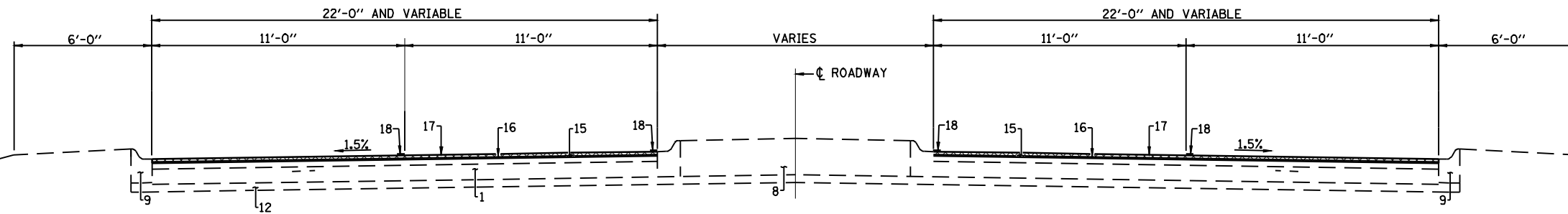
TEMPORARY RAMP DETAIL
(STA. 50+69, STA. 57+50 & ALL INTERSECTING CROSS ROADS)

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	<p>Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907</p>	DETAILS & TYPICAL ROADWAY SECTIONS		F.A.P. RTE. 320	SECTION (24ZRS-4, N; 116RS-5)	COUNTY LOGAN	TOTAL SHEETS 32	SHEET NO. 4
	PLOT SCALE = 6.0000' / IN.	DRAWN -	REVISED -		SCALE:	SHEET NO. 4 OF 32 SHEETS	STA. TO STA.	CONTRACT NO. 72998		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	
	PLOT DATE = Mar-18-2010 02:16:27PM	CHECKED -	REVISED -								
		DATE -	REVISED -								



TYPICAL ROADWAY SECTION #3 (FAP ROUTES 320 & 717)

STA. 59+83.00 TO STA. 61+94.10
 STATION EQUATION STA. 61+94.10 (BK) = 0+00.00 (AH)
 STA. 0+00.00 TO STA. 2+08.52

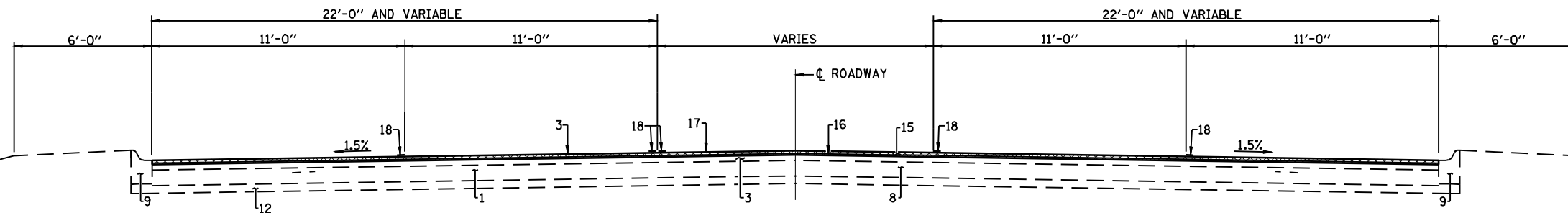


TYPICAL ROADWAY SECTION #4 (FAP ROUTES 320 & 717)

STA. 2+08.52 TO STA. 2+97.93 - (EXIST. CORRUGATED MEDIAN)
 STA. 2+97.93 TO STA. 4+67.00 - (EXIST. COMB. CONC. C & G TYPE M-6.06 W/ 4" CONC. MED. SURF.)

FAP ROUTE 320

STA. 8+37.00 TO STA. 11+35.00 - (EXIST. COMB. CONC. C & G TYPE M-6.06 W/ 4" CONC. MED. SURF.)
 STA. 11+35.00 TO STA. 13+04.05 - (EXIST. CORRUGATED MEDIAN)
 STA. 47+51.88 TO STA. 48+06.31 - (EXIST. CORRUGATED MEDIAN)
 STA. 48+06.31 TO STA. 50+10.56 - (EXIST. COMB. CONC. C & G TYPE M-6.06 W/ 4" CONC. MED. SURF.)
 STA. 50+10.56 TO STA. 50+59.24 - (NO MEDIAN)



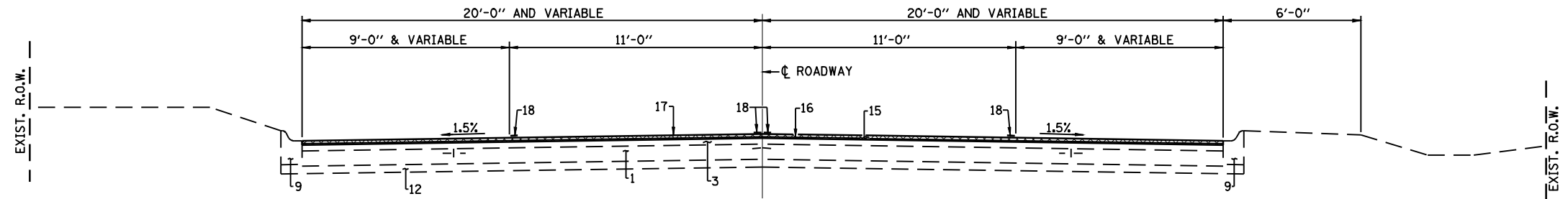
TYPICAL ROADWAY SECTION #5 (FAP ROUTES 320 & 717)

STA. 4+67.00 TO STA. 8+37.00

PAVEMENT LEGEND

1. EXISTING PCC BASE COURSE 9"-6"-9"
2. EXISTING PCC BASE COURSE WIDENING 9"
3. EXISTING HOT MIX OVERLAY (± 5/4")
4. EXISTING HOT MIX ASPHALT BASE COURSE (VARIABLE DEPTH)
5. EXISTING PCC SIDEWALK (4")
6. EXISTING CONCRETE CURB, TYPE B
7. EXISTING CORRUGATED MEDIAN, COMB. C.&G., TYPE M 6.06
8. EXISTING CORRUGATED MEDIAN, COMB. CONC. C.&G. TYPE M-6.06 WITH 4" MED. SURF. OR CONC. MED. TYPE M-6.06
9. EXISTING COMB. CONCRETE CURB AND GUTTER
10. EXISTING SAND CUSHION
11. EXISTING BRICK COURSE
12. EXISTING SUB - BASE GRANULAR MATERIAL (4")
13. EXISTING AGGREGATE SHOULDER
14. EXISTING HOT MIX ASPHALT SHOULDER
15. PROPOSED HOT MIX ASPHALT SURFACE REMOVAL 2 1/4"
16. PROPOSED LEVELING BINDER (MACHINE METHOD), 3/4"
17. PROPOSED HOT MIX ASPHALT SURFACE COURSE, 1 1/2"
18. PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE 5"
19. PROPOSED PORTLAND CEMENT CONCRETE BASE COURSE 12"
20. PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 4"
21. PROPOSED COMBINATION CURB AND GUTTER, TYP B-6.18
22. PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE A (6")
23. PROPOSED AGGREGATE SHOULDER

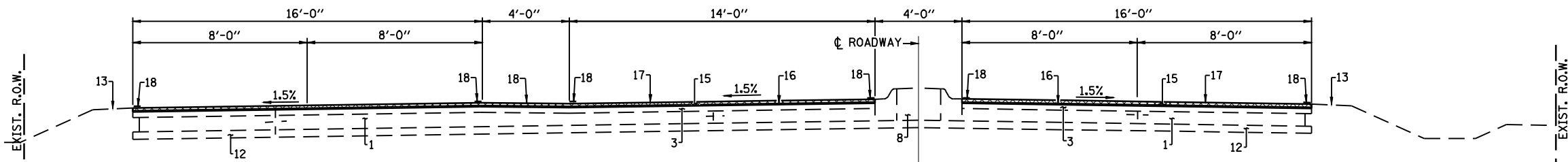
FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	DETAILS & TYPICAL ROADWAY SECTIONS		F.A.P. RTE. 320	SECTION (242)RS-4, N; 116RS-5	COUNTY LOGAN	TOTAL SHEETS 32	SHEET NO. 5	
	PLOT SCALE = 6.0000' / IN.	DRAWN -	REVISED -		SCALE:	SHEET NO. 5 OF 32 SHEETS	STA.	TO STA.	CONTRACT NO. 72998			
	PLOT DATE = Mar-18-2010 02:16:29PM	CHECKED -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									



TYPICAL ROADWAY SECTION #6 (FAP ROUTE 320)

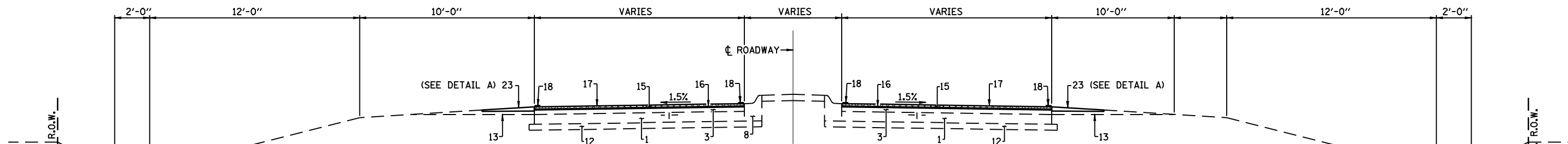
STA. 13+04.05 TO STA. 47+51.88

(NOTE: 7'-6" PARKING LANE QUANTITIES FROM STA. 18+50 TO STA. 47+00 (W. SIDE) & STA. 20+20 TO STA. 47+00 (E. SIDE) TO BE SHARED BY IDOT AND CITY OF LINCOLN PER AGREEMENT)



TYPICAL ROADWAY SECTION #7 (FAP ROUTE 320)

STA. 50+59.24 TO STA. 52+64.02

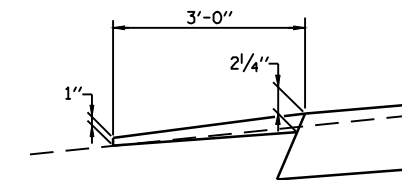


TYPICAL ROADWAY SECTION #8 (FAP ROUTE 320)

STA. 52+64.02 TO STA. 53+60.33 - (EXIST. CONC. MED. TYPE SM-6.06)
 STA. 53+60.33 TO STA. 56+86.16 - (EXIST. COMB. CONC. C & G TYPE M-6.06 W/ 4" CONC. MED. SURF.)
 STA. 56+86.16 TO STA. 57+46.55 - (EXIST. CORRUGATED MEDIAN)
 STA. 57+46.55 TO STA. 57+50.00 - (NO MEDIAN)

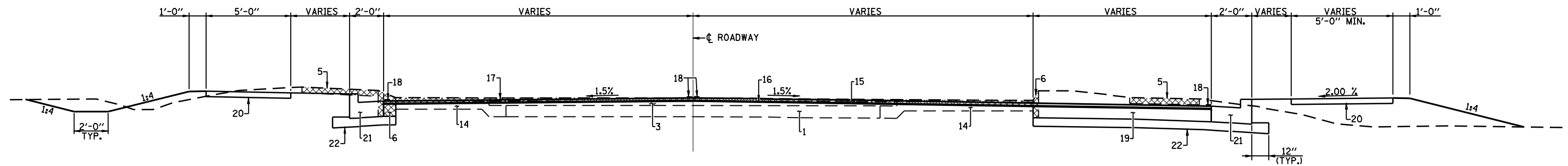
PAVEMENT LEGEND

1. EXISTING PCC BASE COURSE 9"-6"-9"
2. EXISTING PCC BASE COURSE WIDENING 9"
3. EXISTING HOT MIX OVERLAY (± 5/4")
4. EXISTING HOT MIX ASPHALT BASE COURSE (VARIABLE DEPTH)
5. EXISTING PCC SIDEWALK (4")
6. EXISTING CONCRETE CURB, TYPE B
7. EXISTING CORRUGATED MEDIAN, COMB. C.&G., TYPE M 6.06
8. EXISTING CORRUGATED MEDIAN, COMB. CONC. C.&G. TYPE M-6.06 WITH 4" MED. SURF. OR CONC. MED. TYPE M-6.06
9. EXISTING COMB. CONCRETE CURB AND GUTTER
10. EXISTING SAND CUSHION
11. EXISTING BRICK COURSE
12. EXISTING SUB - BASE GRANULAR MATERIAL (4")
13. EXISTING AGGREGATE SHOULDER
14. EXISTING HOT MIX ASPHALT SHOULDER
15. PROPOSED HOT MIX ASPHALT SURFACE REMOVAL 2 1/4"
16. PROPOSED LEVELING BINDER (MACHINE METHOD), 3/4"
17. PROPOSED HOT MIX ASPHALT SURFACE COURSE, 1 1/2"
18. PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE 5"
19. PROPOSED PORTLAND CEMENT CONCRETE BASE COURSE 12"
20. PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 4"
21. PROPOSED COMBINATION CURB AND GUTTER, TYP B-6.18
22. PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE A (6")
23. PROPOSED AGGREGATE SHOULDER

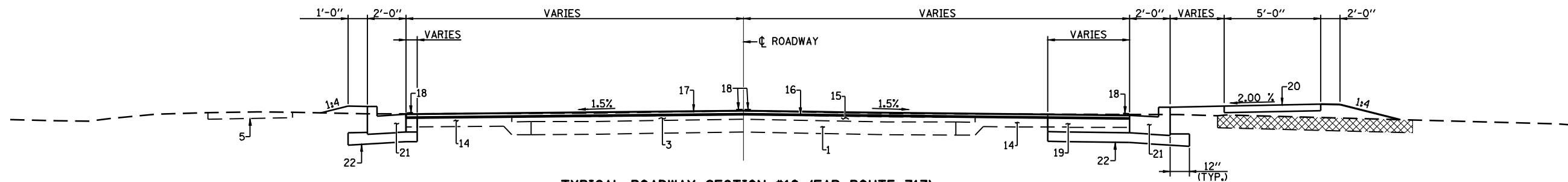


DETAIL A

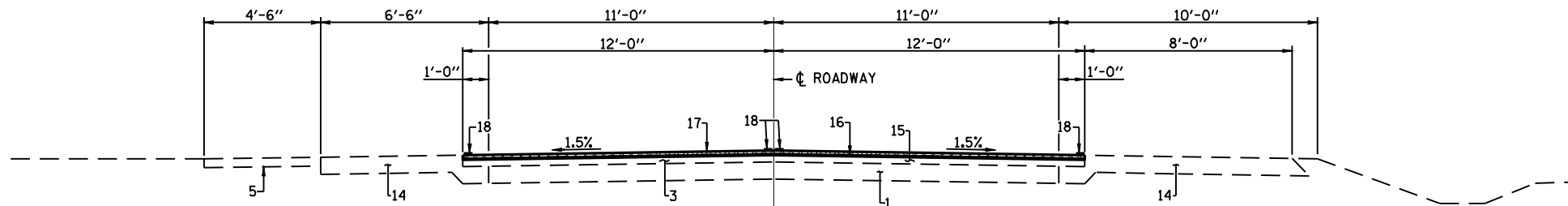
FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	<p>Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907</p>	DETAILS & TYPICAL ROADWAY SECTIONS		F.A.P. RTE. 320	SECTION (24ZRS-4, N; 116RS-5)	COUNTY LOGAN	TOTAL SHEETS 32	SHEET NO. 6	
	PLOT SCALE = 6.0000' / IN.	DRAWN -	REVISED -		SCALE:	SHEET NO. 6 OF 32 SHEETS	STA.	TO STA.	CONTRACT NO. 72998			
	PLOT DATE = Mar-18-2010 02:16:31PM	CHECKED -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									



TYPICAL ROADWAY SECTION #9 (FAP ROUTE 717)
STA. 55+26.50 TO STA. 56+50



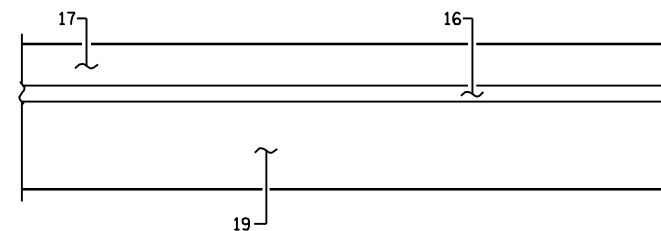
TYPICAL ROADWAY SECTION #10 (FAP ROUTE 717)
STA. 56+50 TO STA. 57+80.50



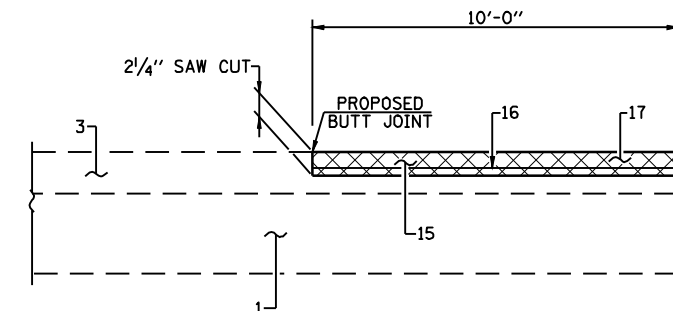
TYPICAL ROADWAY SECTION #11 (FAP ROUTE 717)
STA. 57+80.50 TO STA. 58+50

PAVEMENT LEGEND

1. EXISTING PCC BASE COURSE 9"-6"-9"
2. EXISTING PCC BASE COURSE WIDENING 9"
3. EXISTING HOT MIX OVERLAY (± 5/4")
4. EXISTING HOT MIX ASPHALT BASE COURSE (VARIABLE DEPTH)
5. EXISTING PCC SIDEWALK (4")
6. EXISTING CONCRETE CURB, TYPE B
7. EXISTING CORRUGATED MEDIAN, COMB. C.&G., TYPE M 6.06
8. EXISTING CORRUGATED MEDIAN, COMB. CONC. C.&G. TYPE M-6.06 WITH 4" MED. SURF. OR CONC. MED. TYPE M-6.06
9. EXISTING COMB. CONCRETE CURB AND GUTTER
10. EXISTING SAND CUSHION
11. EXISTING BRICK COURSE
12. EXISTING SUB - BASE GRANULAR MATERIAL (4")
13. EXISTING AGGREGATE SHOULDER
14. EXISTING HOT MIX ASPHALT SHOULDER
15. PROPOSED HOT MIX ASPHALT SURFACE REMOVAL 2 1/4"
16. PROPOSED LEVELING BINDER (MACHINE METHOD), 3/4"
17. PROPOSED HOT MIX ASPHALT SURFACE COURSE, 1 1/2"
18. PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE 5"
19. PROPOSED PORTLAND CEMENT CONCRETE BASE COURSE 12"
20. PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 4"
21. PROPOSED COMBINATION CURB AND GUTTER, TYP B-6.18
22. PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE A (6")
23. PROPOSED AGGREGATE SHOULDER



TYPICAL SECTION THRU MEDIAN SURFACE REMOVAL AREA



BUTT JOINT DETAIL
(AT EACH END OF PROJECT AND ALL INTERSECTION SIDE ROADS)

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	<p>Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907</p>	DETAILS & TYPICAL ROADWAY SECTIONS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 6.0000' / IN.	DRAWN -	REVISED -				320	(24ZRS-4, N; 116RS-5	LOGAN	32	7
	PLOT DATE = Mar-18-2010 02:16:34PM	CHECKED -	REVISED -		SCALE: SHEET NO. 7 OF 32 SHEETS STA. TO STA.			CONTRACT NO. 72998		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	
		DATE	REVISED -								

PAVEMENT MARKING SCHEDULE

LOCATION	LENGTH (FT.)	WORK ZONE PAVEMENT MK. REMOVAL		SHORT TERM PVMT. MARKING		THERMOPLASTIC PVMT. MK. LINE, LINE 5"		PERFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - 5"	
		WHITE (SQ. FT.)	YELLOW SKIP DASH & NO PASSING (SQ. FT.)	WHITE (FT.)	YELLOW (FT.)	WHITE SOLID (FT.)	YELLOW SOLID (FT.)	WHITE SKIP DASH (FT.)	YELLOW SKIP DASH (FT.)
STA. 50+69 TO STA. 51+55	86	29		88			172	60	
STA. 52+75 TO STA. 55+82	307	53		160			947	160	
STA. 56+50 TO STA. 59+34	284	42		128			584	160	
STA. 60+20 TO STA. 1+34	308	53		160			760	160	
STA. 2+08 TO STA. 7+35	527	85		256			1373	260	
STA. 7+35 TO STA. 8+31	96	16		48				20	
STA. 8+31 TO STA. 17+10	879	90	26	272	80	363	1764	250	
STA. 17+10 TO STA. 42+00	2490		195		592				630
STA. 42+00 TO STA. 50+12	812		63		192		1848		
STA. 50+93 TO STA. 57+50	817		53		160	1314	1442		
STA. 55+70 TO STA. 58+50 (IL. 10)	280		19		56	139	786		
STA. 11+81.5 TO STA. 13+50 (KICKAPOO ST.)	324		26		80		303		
STA. 14+50 TO STA. 16+11.7 (KICKAPOO ST.)	169		26		80		318		
SUB-TOTAL		368	408	1112	1240	1816	10297	1070	630
TOTAL			776		2352		12113		1700

NOTE: SHORT-TERM PAVEMENT MARKING QUANTITIES ARE FOR TWO APPLICATIONS.
 * 10% OF TOTAL LENGTH FOR SHORT-TERM PAVEMENT MARKING

HOT MIX ASPHALT SCHEDULE

LOCATION	TEMPORARY RAMP	HOT MIX ASPHALT SURFACE COURSE	LEVELING BINDER MACHINE METHOD N70	INCIDENTAL HOT MIX ASPHALT SURFACING	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE PRIME COAT	HOT MIX ASPHALT SURFACE REMOVAL 2 1/4"	HOT MIX ASPHALT SURFACE REMOVAL BUTT JT.
	SQ.YD.	TON	TON	TON	TON	TON	SQ. YD.	SQ. YD.
STA. 50+69 TO STA. 57+50	48	2769	1385		12.53	65.94	32876	61
KICKAPOO ST.	41			233	0.70	3.69	1764	82
McLEAN ST.	32			56	0.17	0.89	382	64
HAMILTON ST.	38			43	0.13	0.69	268	76
SHERMAN ST.	36			35	0.11	0.56	208	71
IL. 10	13	122	61	24	0.55	2.90	1423	27
TREMONT ST.	23			14	0.04	0.22	64	47
DELEVAN ST.	20			13	0.04	0.21	65	40
WELCH DR.	18			13	0.04	0.21	69	36
RESURFACED MEDIAN AREAS		19	9					33
TOTAL	269	2910	1455	431	14.31	75.31	37119	537

PERMANENT SEEDING SCHEDULE

LOCATION	SEEDING CLASS 2	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH METHOD 3	TEMPORARY EROSION CONTROL SEEDING
	ACRE	POUND	POUND	POUND	TON	ACRE	POUND
STA. 55+26 TO STA. 58+50 LT. (IL. 10)	0.1	9	9	9	0.2	0.1	25
STA. 55+26 TO STA. 58+50 RT. (IL. 10)	0.1	9	9	9	0.2	0.1	25
TOTAL	0.2	18	18	18	0.4	0.2	50

INLET SCHEDULE

LOCATION	INLETS, TYPE A TYPE 3 FRAME & GRATE	INLETS, TYPE B WITH MED. INLET-60406	INLETS, TYPE B, TYPE 3 FRAME AND GRATE	INLETS TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, OPEN LID	FILLING INLETS
	EACH	EACH	EACH	EACH	EACH
STA. 55+55 14' LT.	1				
STA. 56+05 60.2' RT.		1			
STA. 57+10 31.2' RT.		1			
STA. 55+88 43.4' RT.			1		
STA. 55+73 33.8' RT.				1	
STA. 55+47 15' LT.					1
STA. 55+87 42' RT.					1
STA. 56+91 31' RT.					1
TOTAL	1	2	1	1	3

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU. YD.	CU. YD.	CU. YD.	CU. YD.
STA. 55+26 TO STA. 58+50 (IL. 10)	419	314	104	+210
TOTAL	419	314	104	+210*

* THE COST OF REMOVING ANY EXCESS EARTH EXCAVATION SHALL BE INCLUDED IN THE COST PER CUBIC YARD OF EARTH EXCAVATION.

SCHEDULE THERMOPLASTIC PAVEMENT MARKING - LINE 12"

LOCATION	QUANTITY FOOT	
	WHITE	YELLOW
STA. 54+25 TO STA. 55+65		37
STA. 0+60 TO STA. 1+68		23
STA. 2+10 TO STA. 2+90		43
STA. 11+35 TO STA. 12+95		48
STA. 12+00 TO STA. 15+00	66	
STA. 47+60 TO STA. 48+00		17
STA. 50+94 TO STA. 54+22	126	
STA. 55+90 TO STA. 56+30		17
STA. 55+67 TO STA. 55+38 (IL. 10)		20
SUB-TOTAL	192	262
TOTAL		454

SCHEDULE PERFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID LETTERS AND SYMBOLS

LOCATION	QUANTITY SQ. FT.
STA. 51+30 LT. TURN	8.8
STA. 53+11 LT. TURN	8.8
STA. 53+81 LT. TURN	8.8
STA. 5+88 LT. TURN	8.8
STA. 7+14 LT. TURN	8.8
STA. 11+88 LT. TURN (KICKAPOO ST.)	8.8
STA. 12+48 LT. TURN (KICKAPOO ST.)	8.8
STA. 13+08 LT. TURN (KICKAPOO ST.)	8.8
STA. 14+78 LT. TURN (KICKAPOO ST.)	8.8
STA. 15+38 LT. TURN (KICKAPOO ST.)	8.8
STA. 15+98 LT. TURN (KICKAPOO ST.)	8.8
STA. 9+10 LANE REDUCTION ARROW	41.5
STA. 10+10 LANE REDUCTION ARROW	41.5
STA. 48+58 RT. TURN	8.8
STA. 49+28 RT. TURN	8.8
STA. 49+86 RT. TURN	8.8
STA. 51+15 LT. TURN	8.8
STA. 52+30 LT. TURN	8.8
STA. 53+20 LT. TURN	8.8
STA. 54+15 LT. TURN	8.8
TOTAL	252

SCHEDULE PERFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID LINE 24"

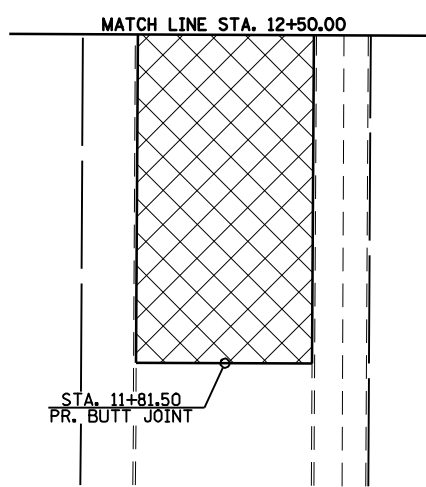
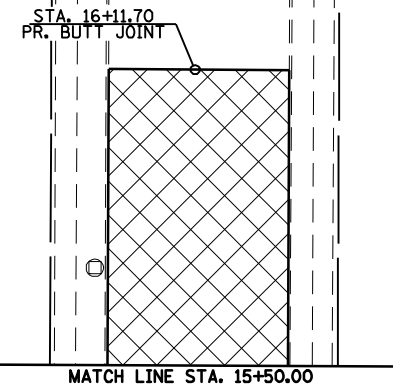
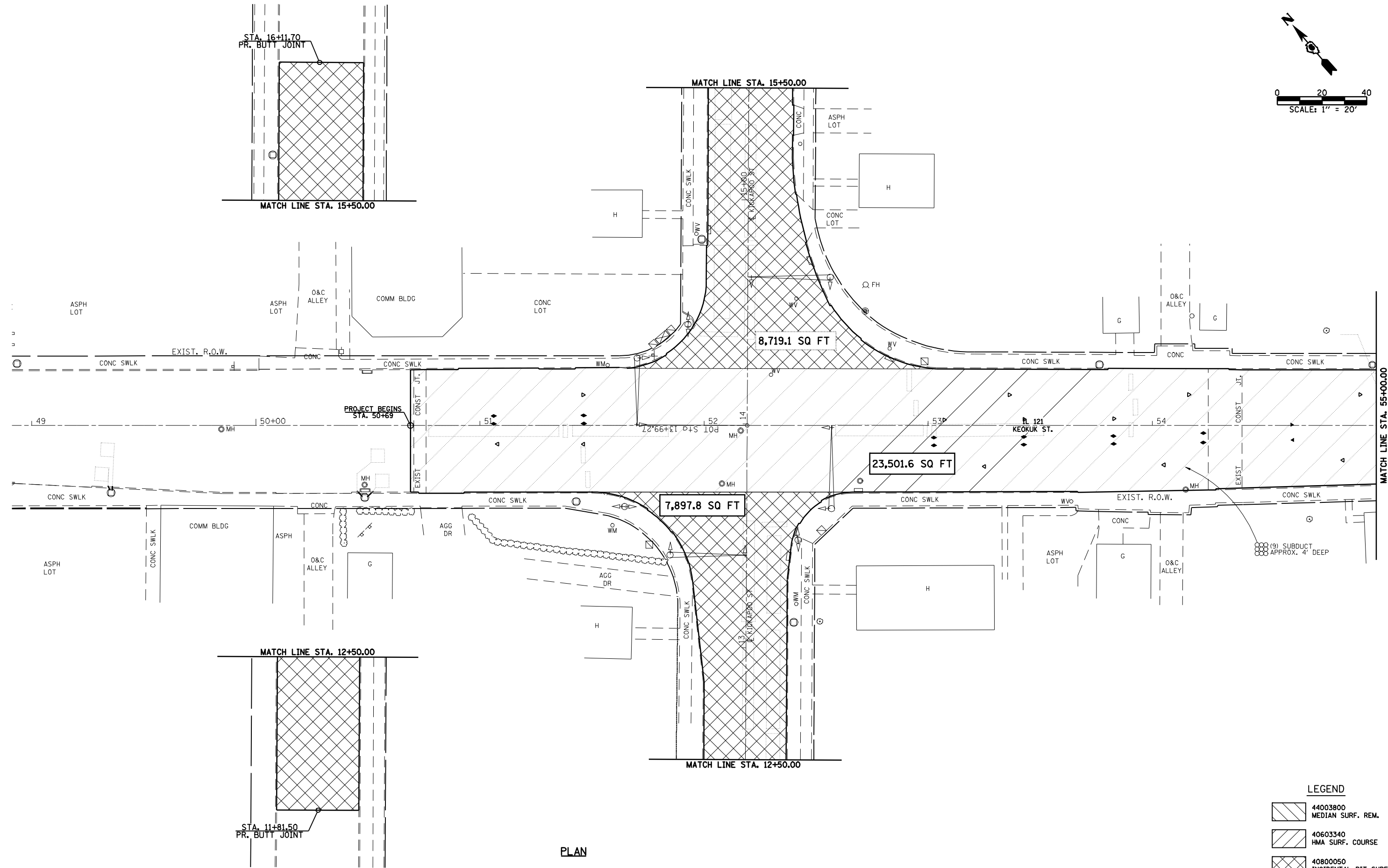
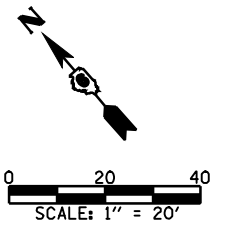
LOCATION	QUANTITY FOOT
IL. 121 - STA. 51+55 RT. & STA. 51+70 RT.	35
IL. 121 - STA. 52+75 LT. & STA. 52+86 LT.	40
KICKAPOO ST. - STA. 13+33 RT. & STA. 13+51 RT.	25
KICKAPOO ST. - STA. 14+48 LT. & STA. 14+53 LT.	25
McLEAN ST. - STA. 9+65 RT. & STA. 10+35 LT.	46
HAMILTON ST. - STA. 9+65 RT. & STA. 10+35 LT.	44
SHERMAN ST. - STA. 9+62 RT. & STA. 10+38 LT.	42
IL. 10 - STA. 55+68 LT.	18
TREMONT ST. - STA. 9+68 RT.	22
DELEVAN ST. - STA. 9+63 RT.	18
WELCH DR. - STA. 10+56 LT.	16
BROADWAY ST. - STA. 9+29 RT.	22
NUGENT ST. - STA. 10+52 LT.	18
TOTAL	371

SCHEDULE THERMOPLASTIC PAVEMENT MARKING - LINE 6"

LOCATION	QUANTITY FOOT
STA. 50+69 TO STA. 51+70 RT.	101
STA. 11+81.5 TO STA. 13+51 (KICKAPOO ST.)	171
STA. 14+48 TO STA. 15+08 (KICKAPOO ST.)	164
STA. 52+75 TO STA. 54+12	137
IL. 121 & KICKAPOO ST. CROSSWALKS	566
McLEAN ST. - NORTH & SOUTH	268
HAMILTON ST. - NORTH & SOUTH	246
SHERMAN ST. - NORTH & SOUTH	438
STA. 5+84 TO STA. 7+35	151
IL. 10 CROSSWALK	154
IL. 121 CROSSWALK STA. 8+50	118
IL. 121 - STA. 35+67 & STA. 35+73	80
IL. 121 - STA. 36+53 & STA. 36+59	80
WELCH DRIVE	68
STA. 46+84 TO STA. 48+55 (SKIP DASH)	44
STA. 48+55 TO STA. 49+97	142
IL. 121 CROSSWALK STA. 49+97 & STA. 50+03	122
STA. 50+93 TO STA. 54+25	1246
STA. 54+25 TO STA. 55+29 (SKIP DASH)	26
TOTAL	4322

RAISED REFLECTIVE PAVEMENT MARKER SCHEDULE

LOCATION	ONE WAY AMBER MARKERS	ONE WAY CRYSTAL/OPAQUE MARKER	TWO WAY AMBER MARKER
	EACH	EACH	EACH
STA. 54+63 TO STA. 55+43	6		
STA. 0+58 TO STA. 0+98	4		
STA. 2+28 TO STA. 3+08	6		
STA. 4+68 TO STA. 5+48	6		
STA. 8+55 TO STA. 12+95	24		
STA. 47+75 TO STA. 48+15	4		
STA. 57+05 TO STA. 57+45	4		
STA. 51+07 TO STA. 51+47 LT. & RT.		4	
STA. 53+25 TO STA. 55+65 LT. & RT.		8	
STA. 56+62 TO STA. 59+02 LT. & RT.		8	
STA. 60+58 TO STA. 1+04 LT. & RT.		8	
STA. 2+28 TO STA. 7+08 LT. & RT.		14	
STA. 5+75 TO STA. 7+35 TURN LANE		5	
STA. 7+88 RT.		1	
STA. 8+55 TO STA. 12+95 LT. & RT.		12	
STA. 49+20 TO STA. 50+00 TURN LANE		2	
STA. 51+05 TO STA. 54+25 LT.		17	
STA. 51+07 TO STA. 51+47 ¢			4
STA. 52+63 TO STA. 54+23 ¢			10
STA. 55+65 ¢			1
STA. 56+62 TO STA. 59+02 ¢			16
STA. 60+52 TO STA. 0+18 ¢			10
STA. 2+08 ¢			1
STA. 5+88 TO STA. 7+08 ¢			8
STA. 13+35 TO STA. 14+95 ¢			10
STA. 15+35 TO STA. 44+95 ¢			38
STA. 45+35 TO STA. 47+35 ¢			12
STA. 55+70 TO STA. 56+30 (IL. 10)	6		
STA. 56+60 TO STA. 58+28 (IL. 10)			8
SUB-TOTAL	60	79	118
TOTAL		257	

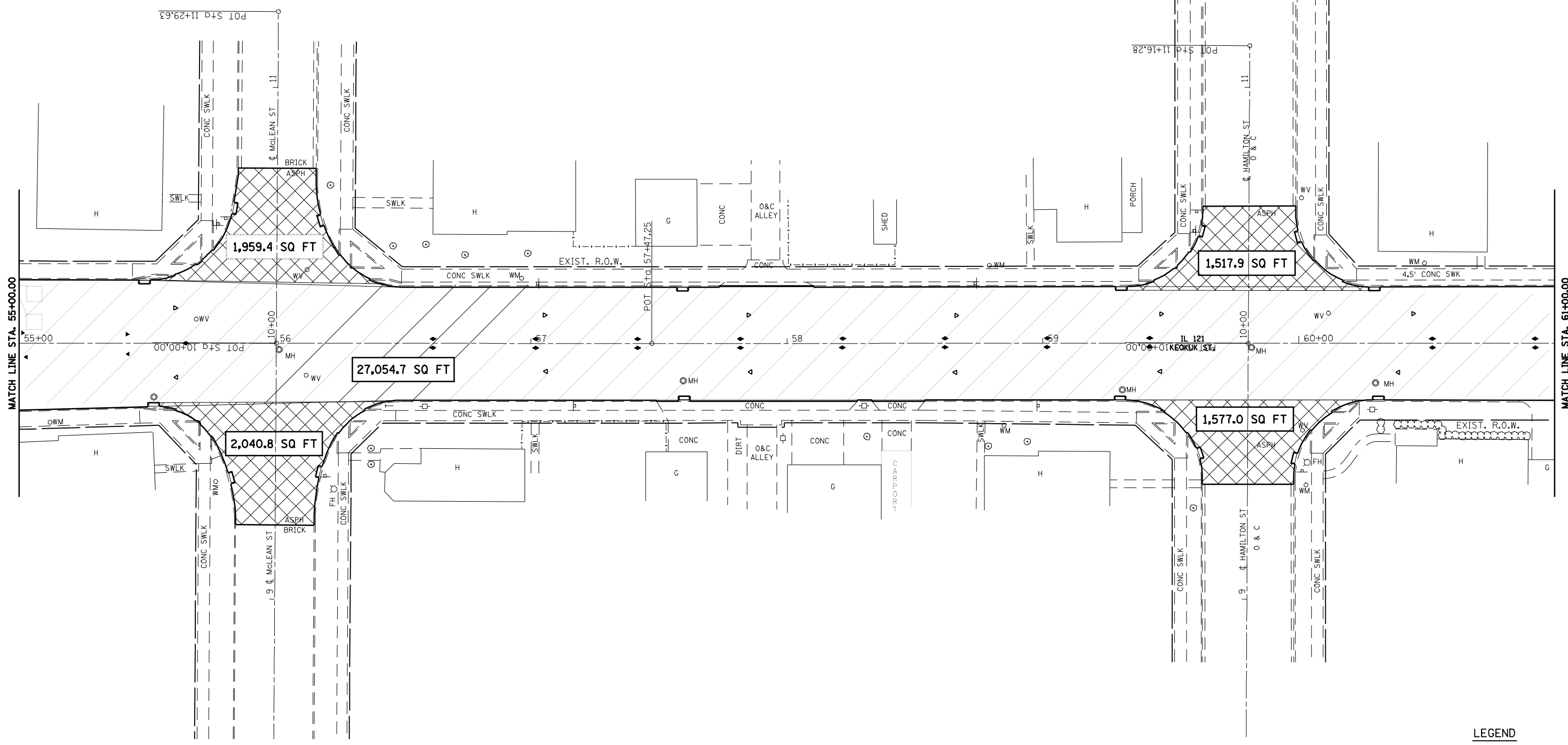
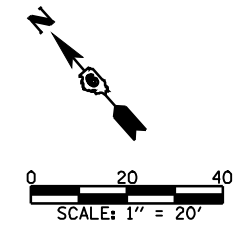


PLAN

LEGEND

	44003800 MEDIAN SURF. REM.
	40603340 HMA SURF. COURSE
	40800050 INCIDENTAL BIT SURF.

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	<p>Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907</p>	PAVEMENT REMOVAL PLAN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / IN.	DRAWN -	REVISED -					320	(242)RS-4, N; 116RS-5	LOGAN	32	10
	PLOT DATE = Mar-18-2010 02:16:42PM	CHECKED -	REVISED -		SCALE: 1" = 20' SHEET NO. 10 OF 32 SHEETS STA. 50+69.00 TO STA. 55+00.00			CONTRACT NO. 72998				
		DATE -	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



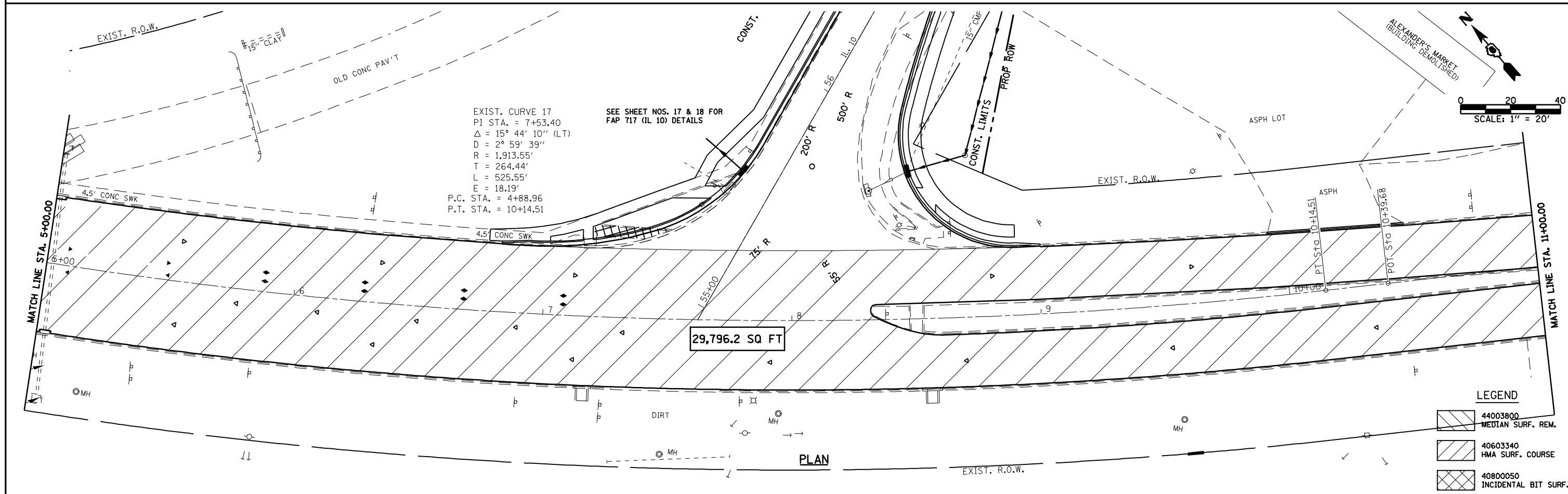
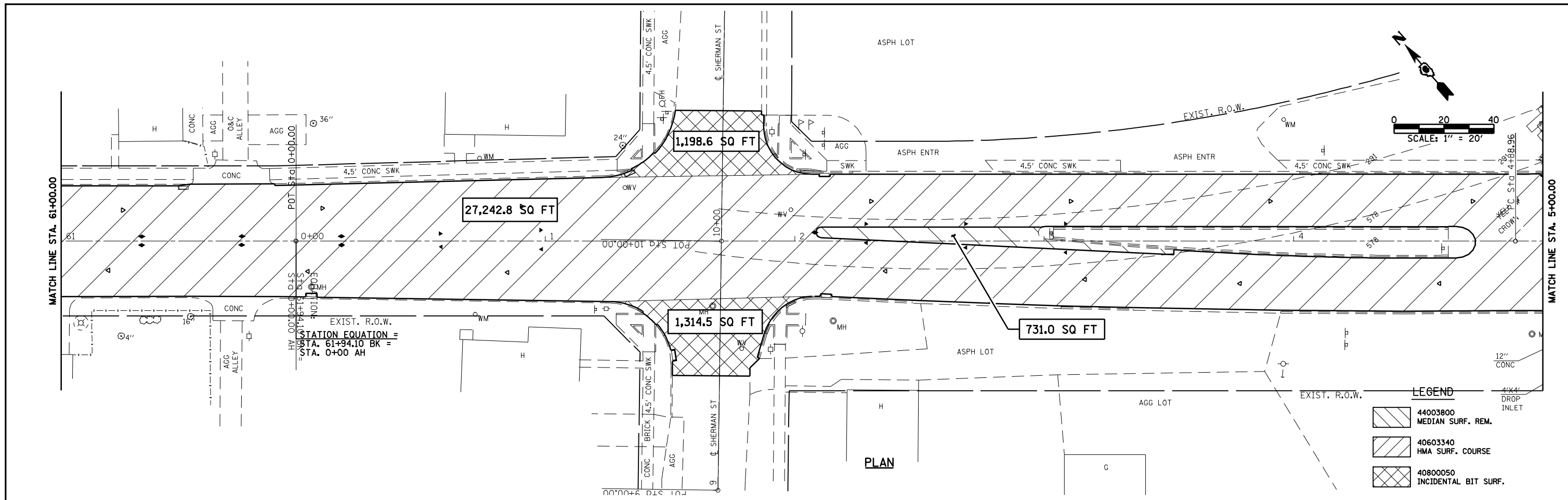
PLAN

LEGEND

	44003800 MEDIAN SURF. REM.
	40603340 HMA SURF. COURSE
	40800050 INCIDENTAL BIT SURF.

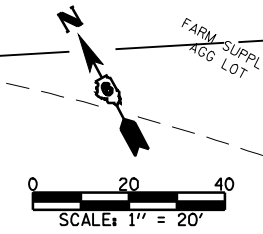
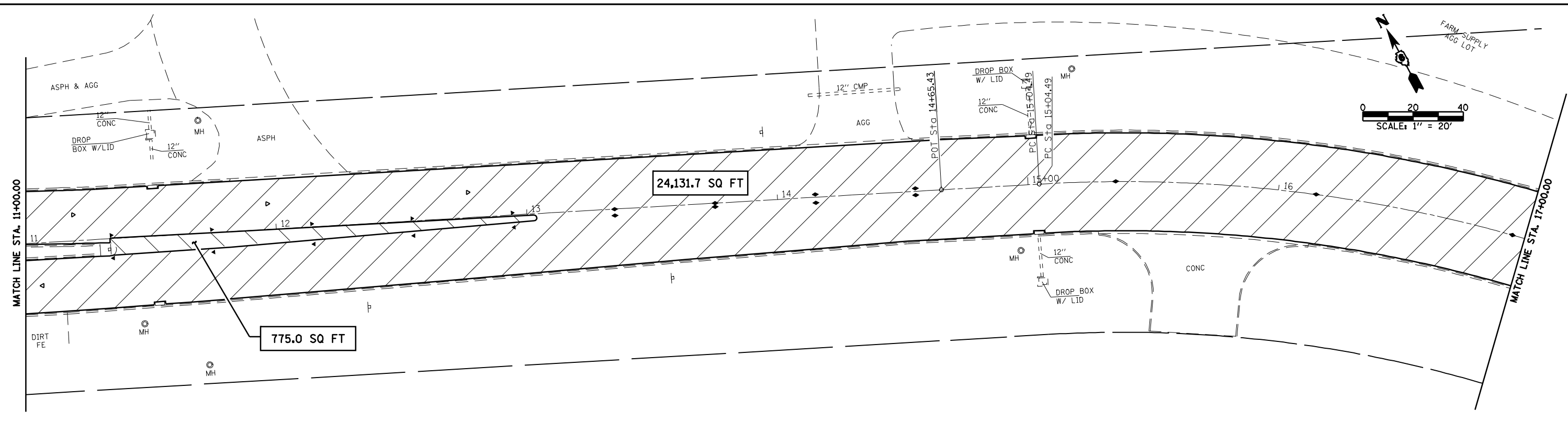
FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	PAVEMENT REMOVAL PLAN		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / IN.	DRAWN -	REVISED -				320	(24ZRS-4, N; 116RS-5	LOGAN	32	11
	PLOT DATE = Mar-18-2010 02:16:45PM	CHECKED -	REVISED -		SCALE: 1" = 20' SHEET NO. 11 OF 32 SHEETS STA. 55+00.00 TO STA. 61+00.00			CONTRACT NO. 72998			
		DATE -	REVISED -					ILLINOIS FED. AID PROJECT			

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FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	PAVEMENT REMOVAL PLAN		F.A.P. RTE. = 320	SECTION = (24ZRS-4, N; 116RS-5)	COUNTY = LOGAN	TOTAL SHEETS = 32	SHEET NO. = 12	
	PLOT SCALE = 40.0000' / IN.	DRAWN -	REVISED -		SCALE: 1" = 20'	SHEET NO. 12 OF 32 SHEETS	STA. 61+00.00 TO STA. 11+00.00	CONTRACT NO. 72998				
	PLOT DATE = Mar-18-2010 02:16:48PM	CHECKED -	REVISED -									
		DATE -	REVISED -									

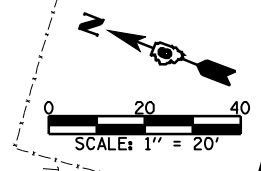
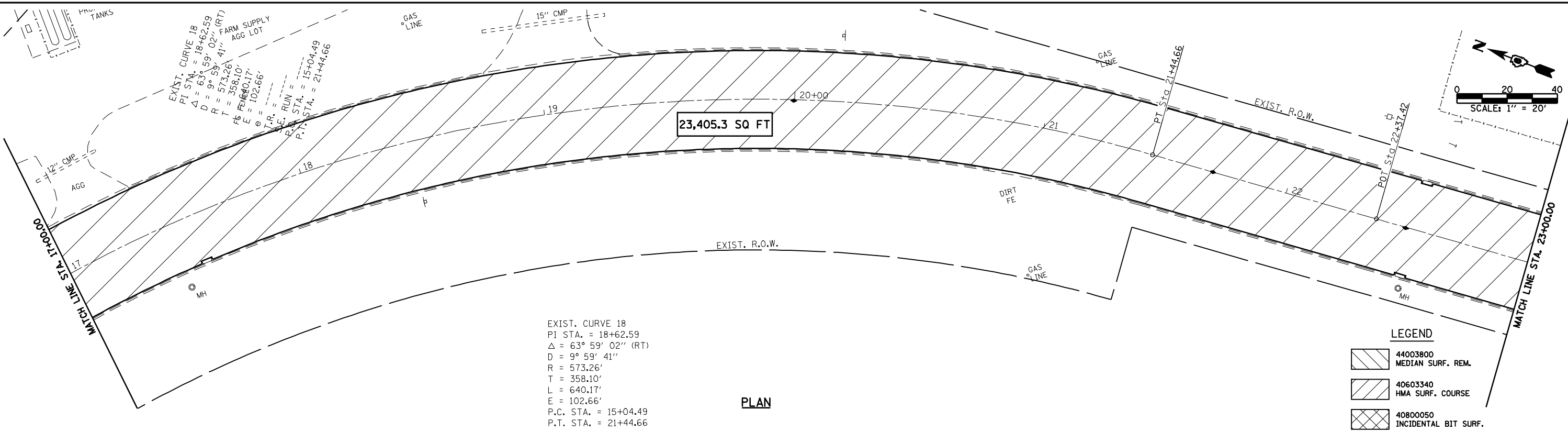
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PLAN

LEGEND

	44003800 MEDIAN SURF. REM.
	40603340 HMA SURF. COURSE
	40800050 INCIDENTAL BIT SURF.



PLAN

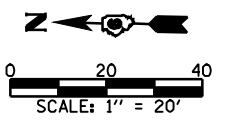
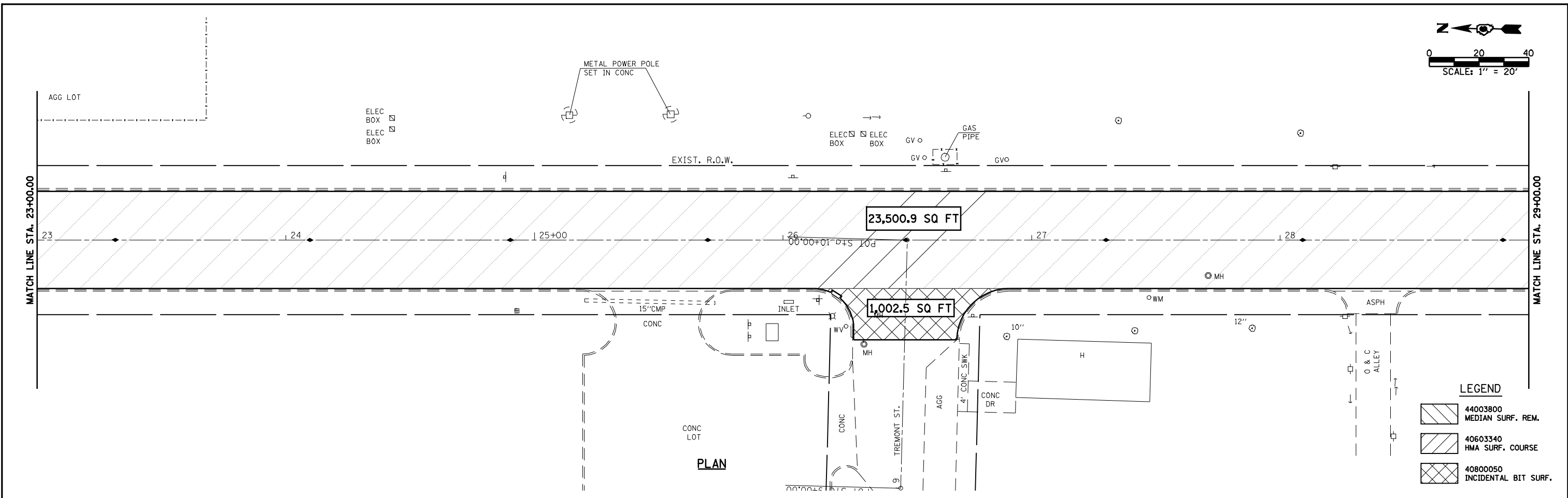
LEGEND

	44003800 MEDIAN SURF. REM.
	40603340 HMA SURF. COURSE
	40800050 INCIDENTAL BIT SURF.

EXIST. CURVE 18
 PI STA. = 18+62.59
 $\Delta = 63^\circ 59' 02''$ (RT)
 D = $9^\circ 59' 41''$
 R = 573.26'
 T = 358.10'
 L = 640.17'
 E = 102.66'
 P.C. STA. = 15+04.49
 P.T. STA. = 21+44.66

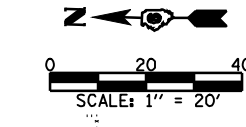
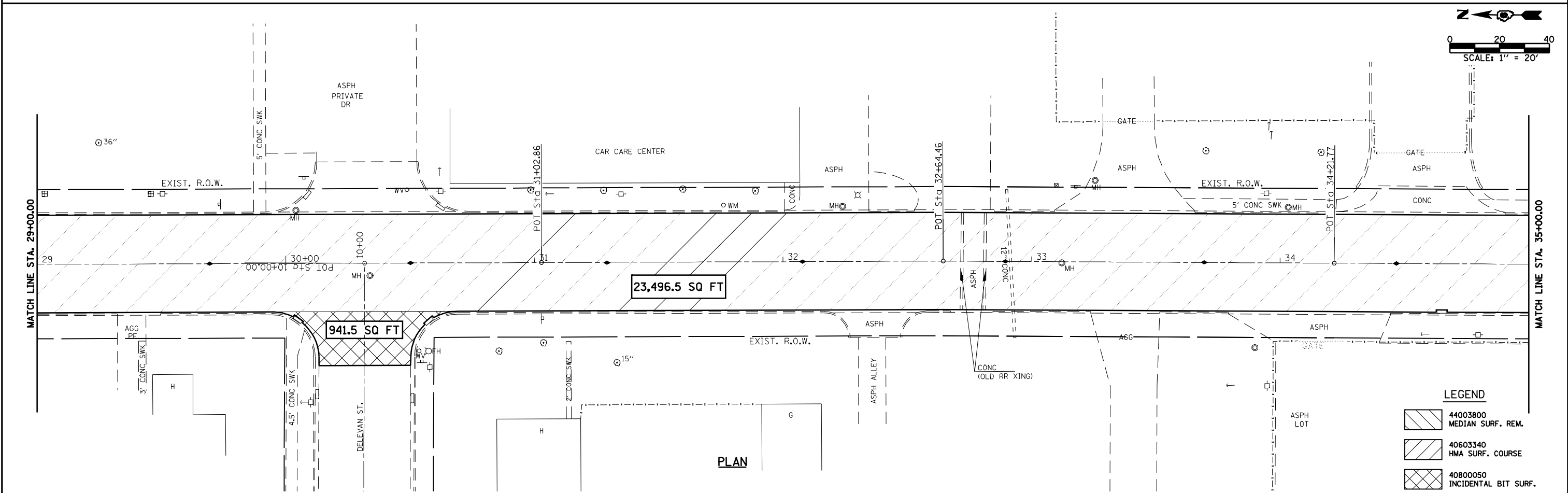
FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	PAVEMENT REMOVAL PLAN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / IN.	DRAWN -	REVISED -					320	(24ZRS-4, N, 116RS-5	LOGAN	32	13
	PLOT DATE = Mar-18-2010 02:16:50PM	CHECKED -	REVISED -		SCALE: 1" = 20' SHEET NO. 13 OF 32 SHEETS STA. 11+00.00 TO STA. 23+00.00			CONTRACT NO. 72998				
		DATE -	REVISED -		FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT				

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LEGEND

	44003800 MEDIAN SURF. REM.
	40603340 HMA SURF. COURSE
	40800050 INCIDENTAL BIT SURF.

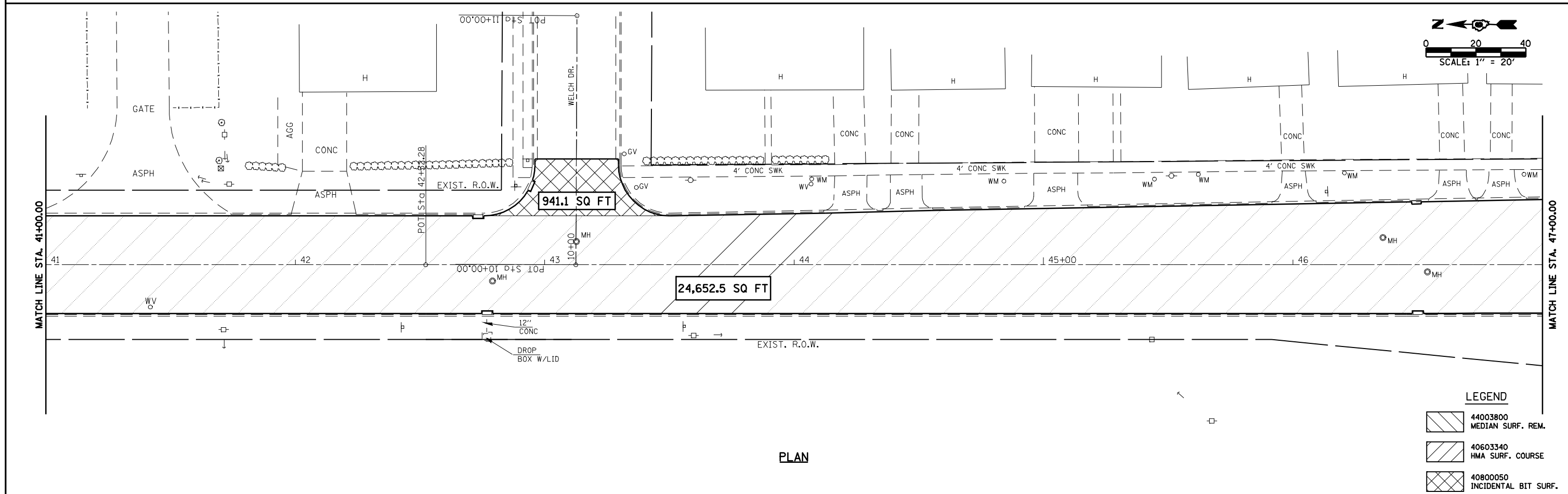
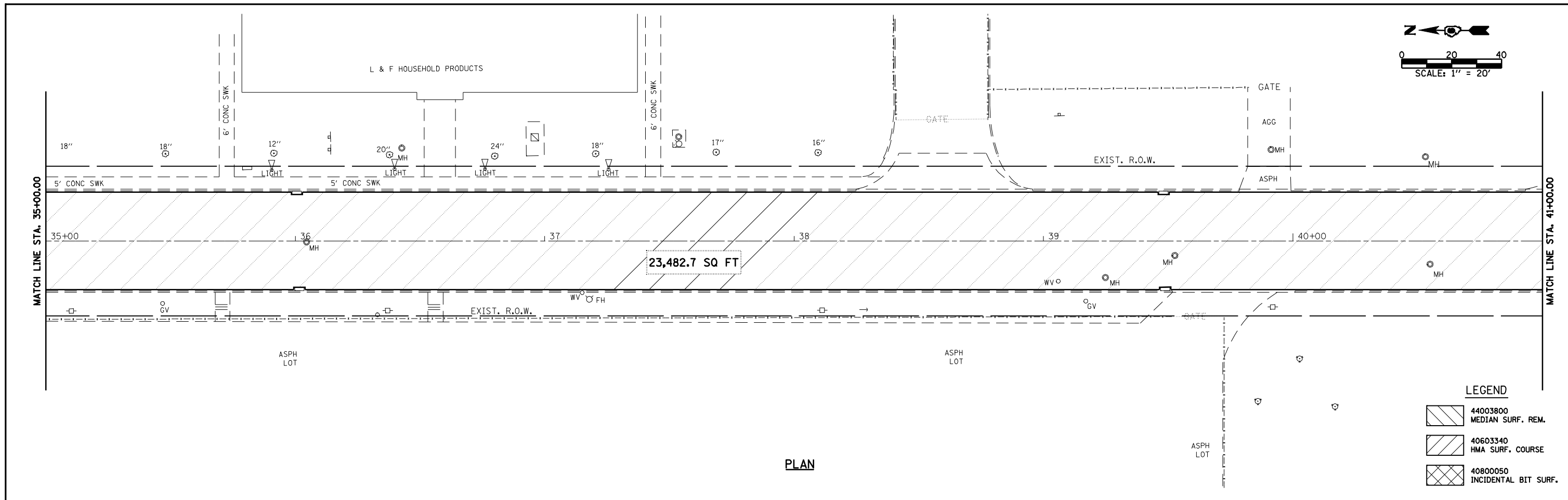



LEGEND

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	40603340 HMA SURF. COURSE
	40800050 INCIDENTAL BIT SURF.

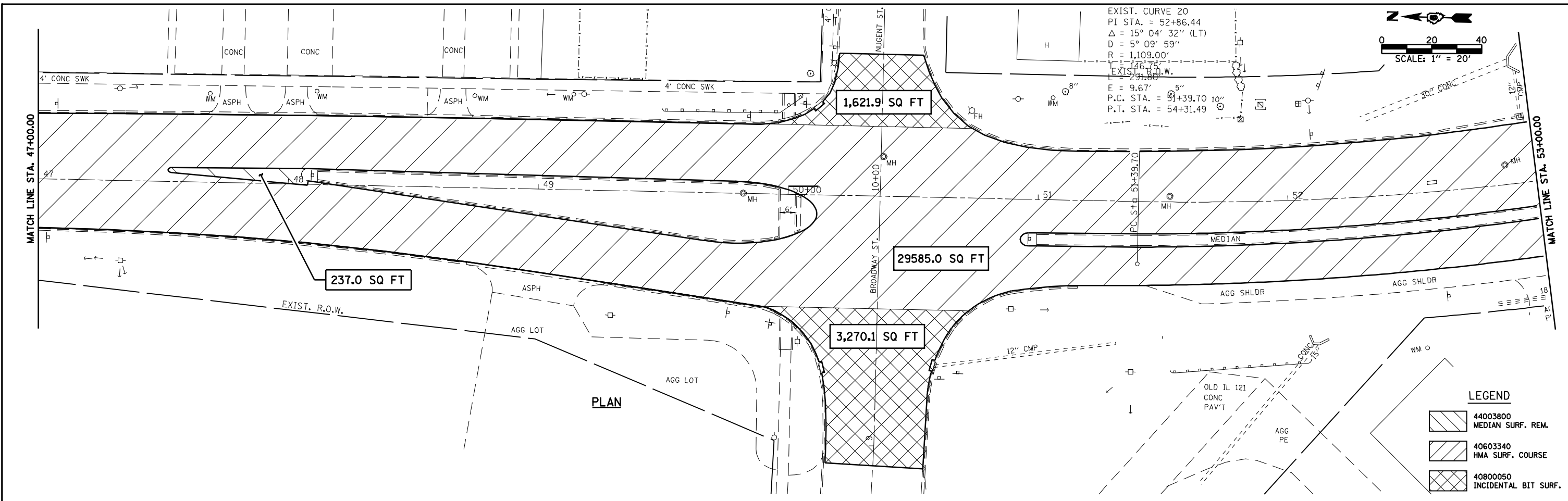
FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	PAVEMENT REMOVAL PLAN			F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / IN.	DRAWN -	REVISED -					320	(24ZRS-4, N; 116RS-5	LOGAN	32	14
	PLOT DATE = Mar-18-2010 02:16:53PM	CHECKED -	REVISED -		CONTRACT NO. 72998				FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		
		DATE -	REVISED -		SCALE: 1" = 20'	SHEET NO. 14 OF 32 SHEETS	STA. 23+00.00 TO STA. 35+00.00					

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FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	PAVEMENT REMOVAL PLAN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / IN.	DRAWN -	REVISED -		320	(24ZRS-4, N; 116RS-5	LOGAN	32	15			
	PLOT DATE = Mar-18-2010 02:16:56PM	CHECKED -	REVISED -		CONTRACT NO. 72998							
		DATE -	REVISED -		SCALE: 1" = 20'	SHEET NO. 15 OF 32 SHEETS	STA. 35+00.00 TO STA. 47+00.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

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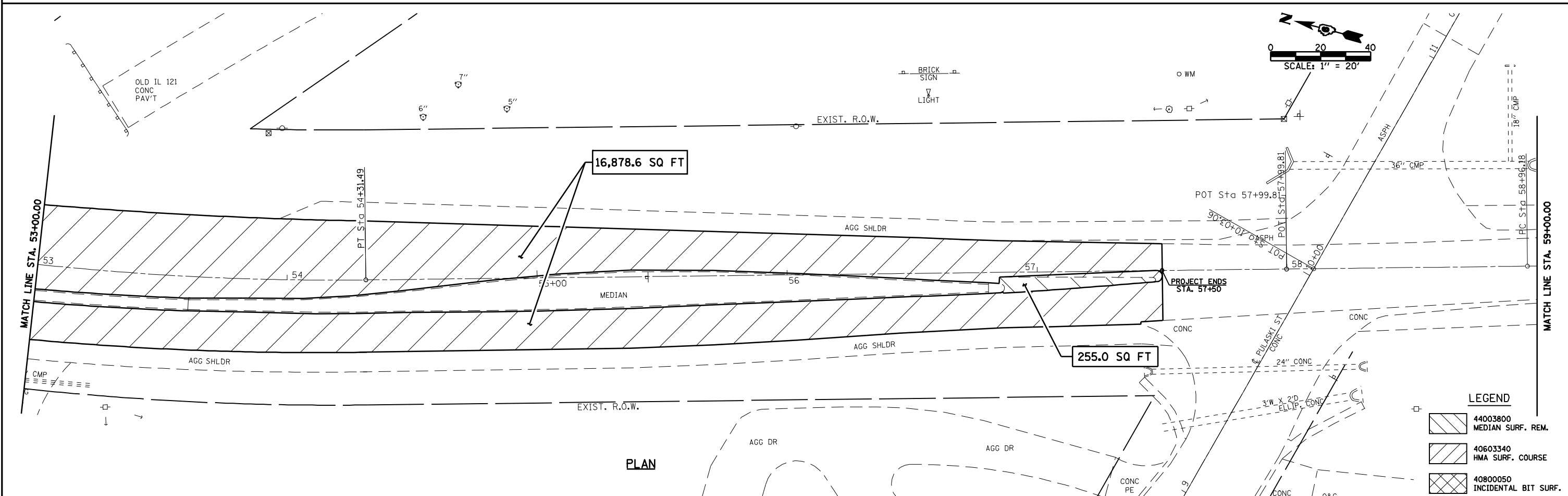


EXIST. CURVE 20
 PI STA. = 52+86.44
 $\Delta = 15^\circ 04' 32''$ (LT)
 $D = 5^\circ 09' 59''$
 $R = 1,109.00'$
 EXIST. P.C. STA. = 51+76.78
 EXIST. P.T. STA. = 54+31.49
 $E = 9.67'$
 $P.C. STA. = 51+39.70$
 $P.T. STA. = 54+31.49$

SCALE: 1" = 20'

LEGEND

	44003800 MEDIAN SURF. REM.
	40603340 HMA SURF. COURSE
	40800050 INCIDENTAL BIT SURF.

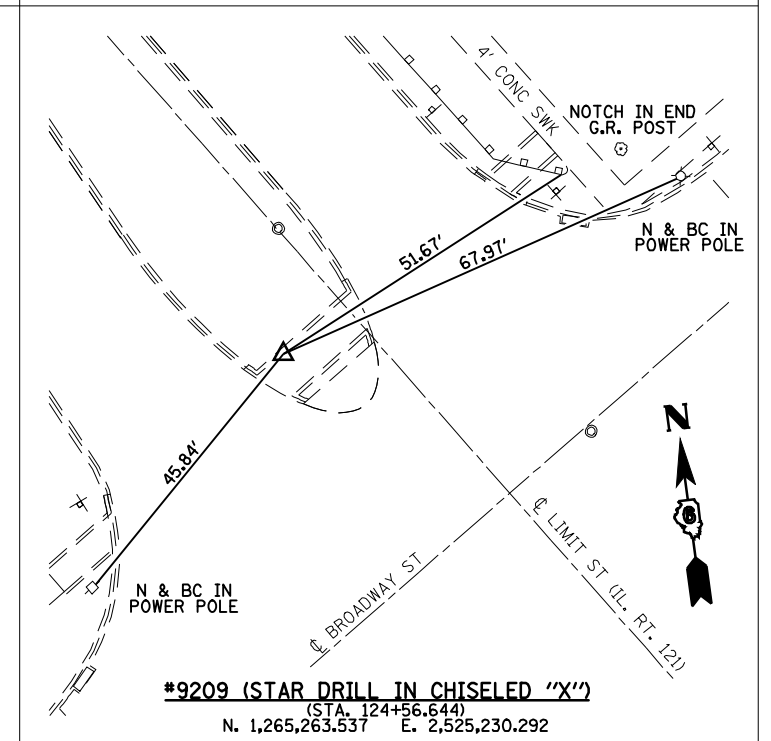
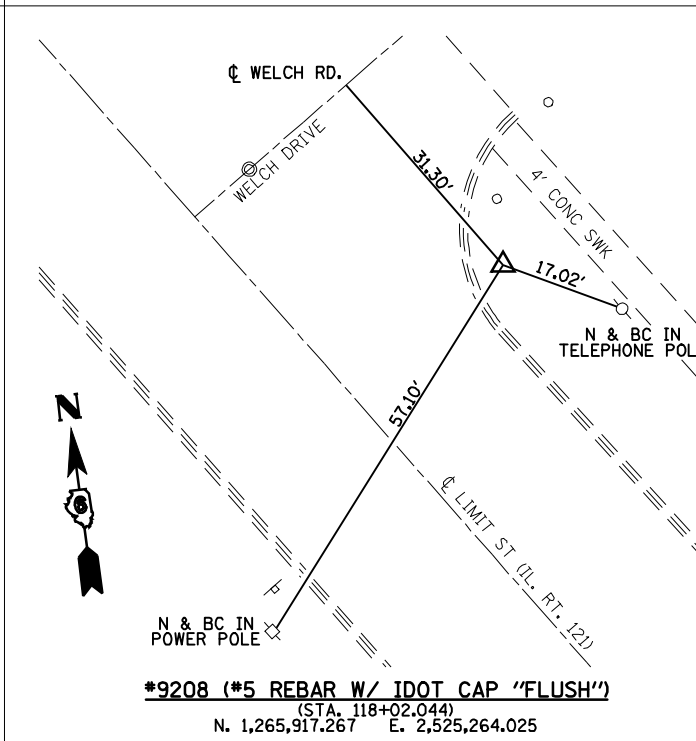
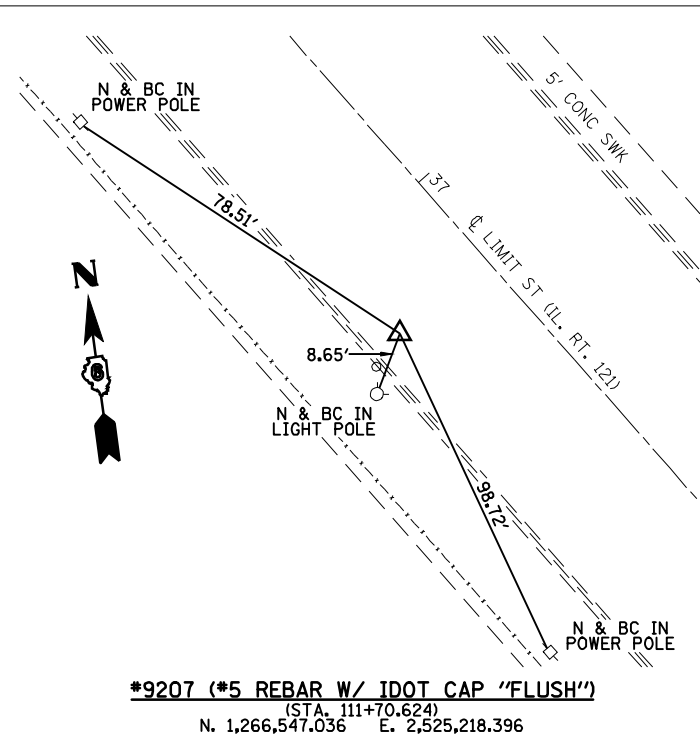
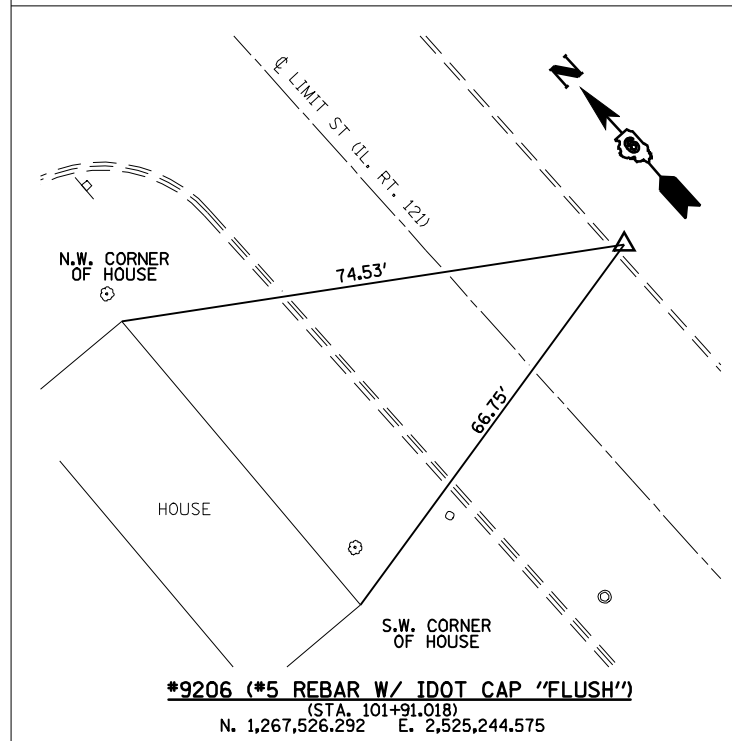
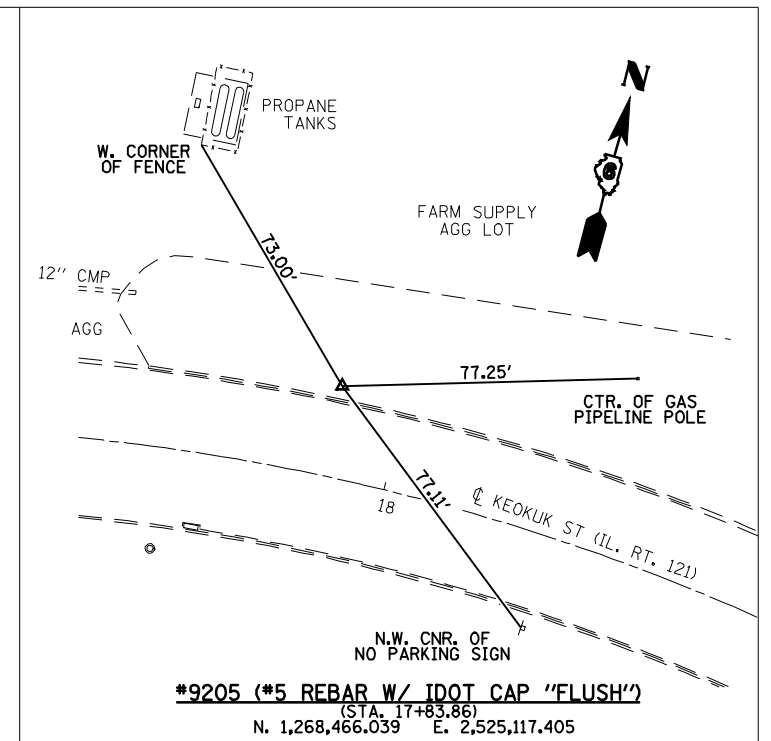
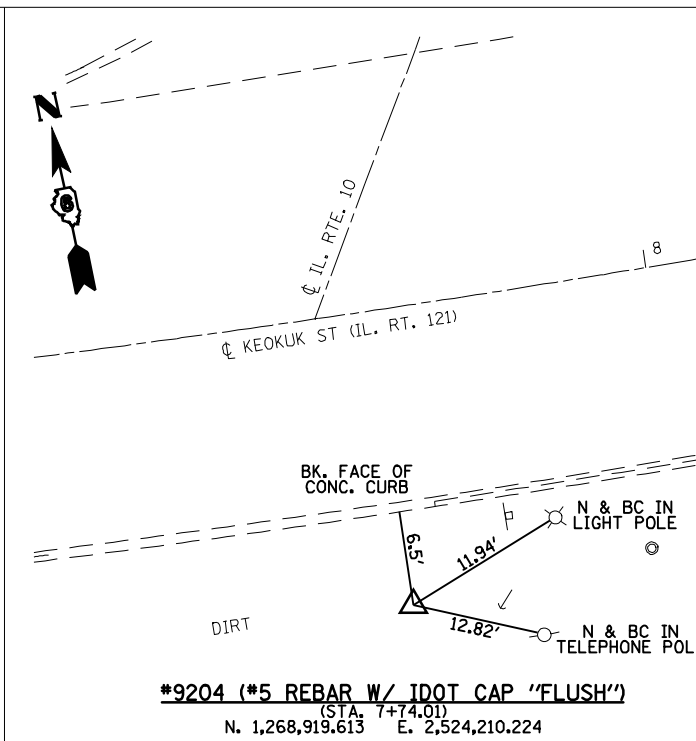
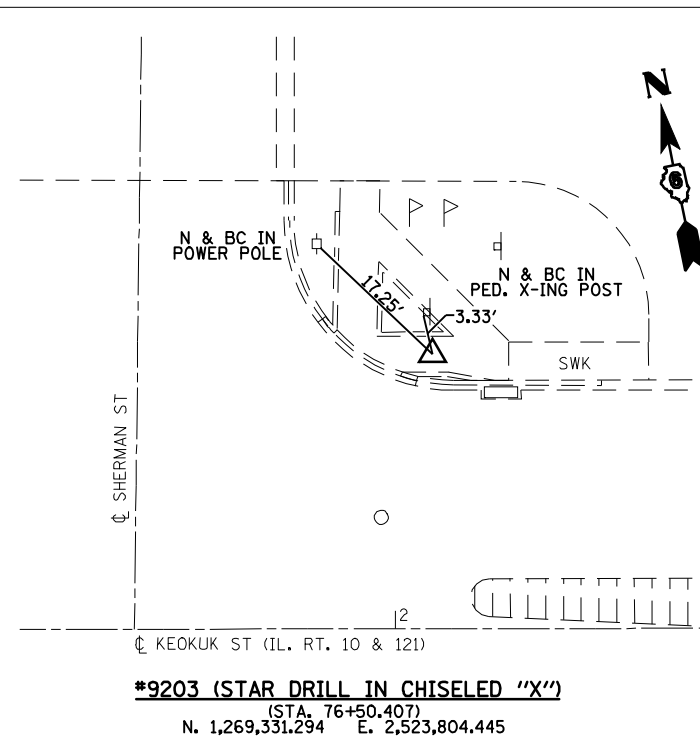
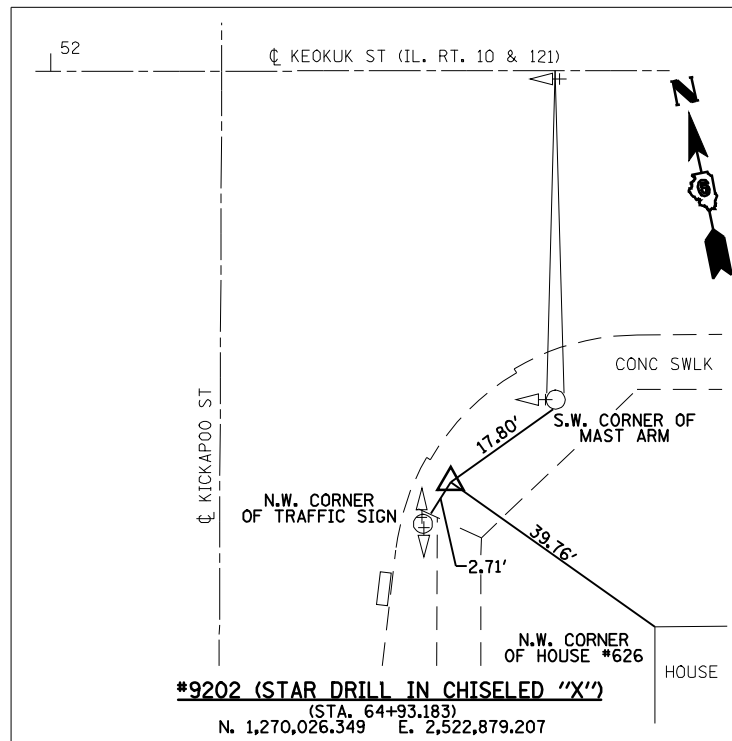


SCALE: 1" = 20'

LEGEND

	44003800 MEDIAN SURF. REM.
	40603340 HMA SURF. COURSE
	40800050 INCIDENTAL BIT SURF.

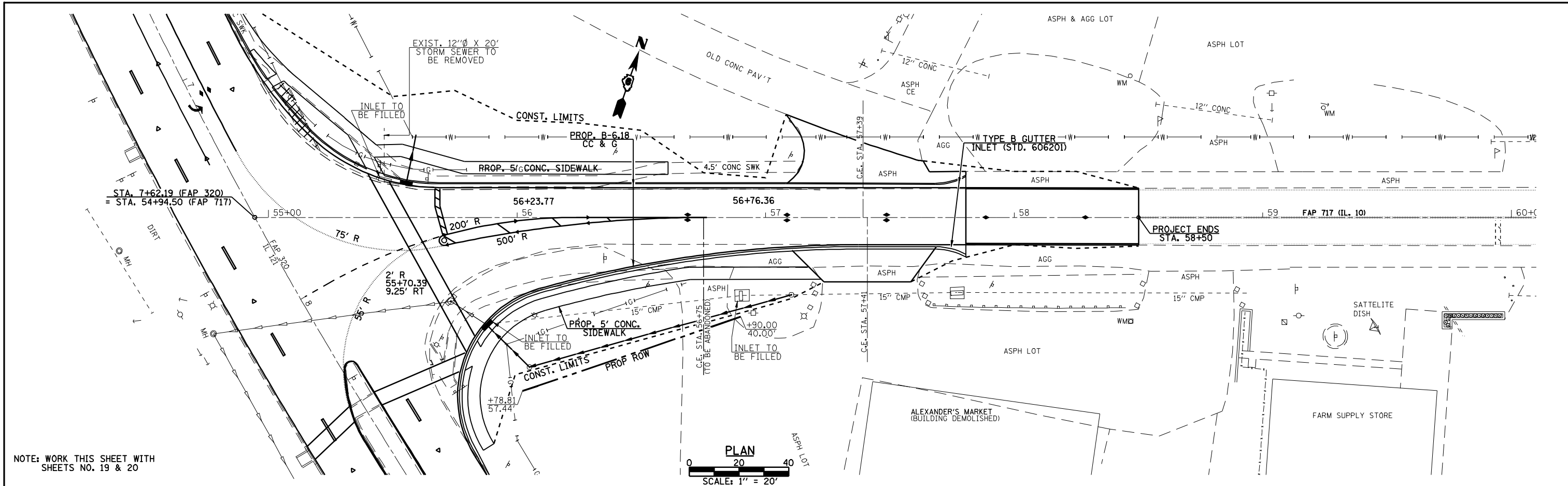
FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	<p>Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907</p>	PAVEMENT REMOVAL PLAN			F.A.P. RTE. 320	SECTION (242RS-4, N; 116RS-5)	COUNTY LOGAN	TOTAL SHEETS 32	SHEET NO. 16
PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -	REVISED -		SCALE: 1" = 20'	SHEET NO. 16 OF 32 SHEETS	STA. 47+00.00 TO STA. 59+00.00	CONTRACT NO. 72998				
PLOT DATE = Mar-18-2010 02:16:58PM	DATE -	REVISED -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
<p>Legend: 44003800 MEDIAN SURF. REM., 40603340 HMA SURF. COURSE, 40800050 INCIDENTAL BIT SURF.</p>												



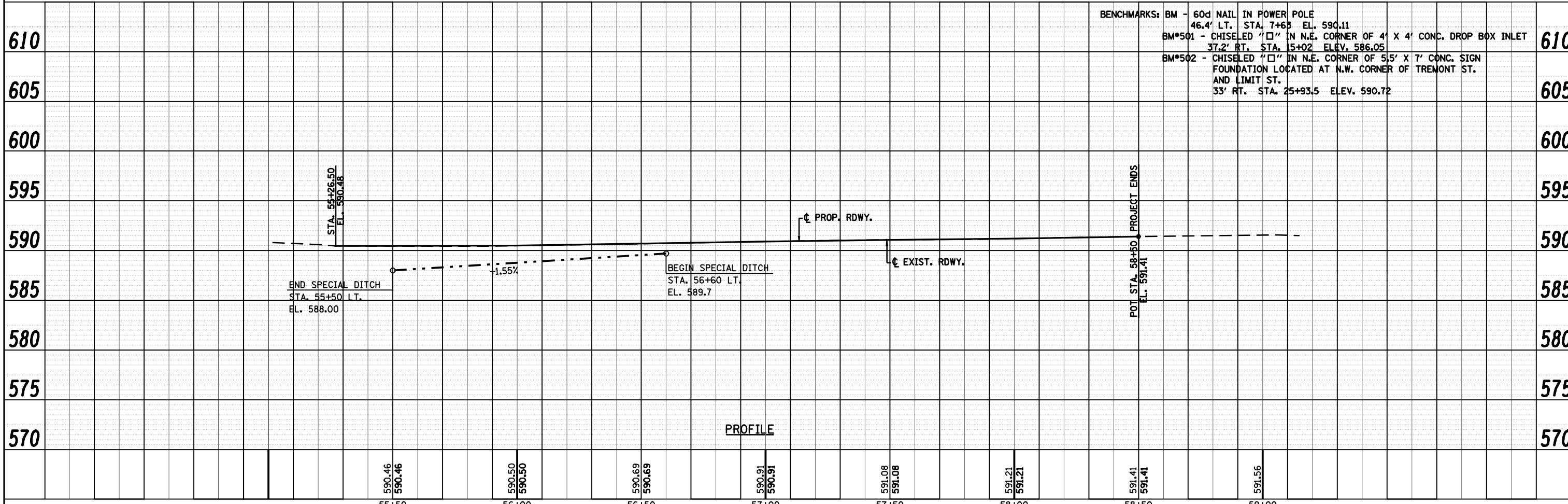
FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	CONTROL POINT CROSS TIES		FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
er:\pwork\PIWIDOT\LAUGHLINRL\0181122\d872998-shr-ATB.dgn	DRAWN -	REVISED -	320				(24Z)RS-4 N; 116RS-5	LOGAN	32	17	
PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 72998								
PLOT DATE = Mar-18-2010 02:17:00PM	DATE -	REVISED -	FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT						
			SCALE: NONE	SHEET NO. 17 OF 32 SHEETS	STA.	TO STA.					

DATE	
BY	
PLAN	REVIEWED
	PLOTTED
	ALIGNED
	CHECKED
	DESIGNED
	NO. _____
	CADD FILE NAME

DATE	
BY	
PROFILE	REVIEWED
	PLOTTED
	GRADES CHECKED
	STRUCTURE NOTATIONS OK'D
	NO. _____



NOTE: WORK THIS SHEET WITH SHEETS NO. 19 & 20

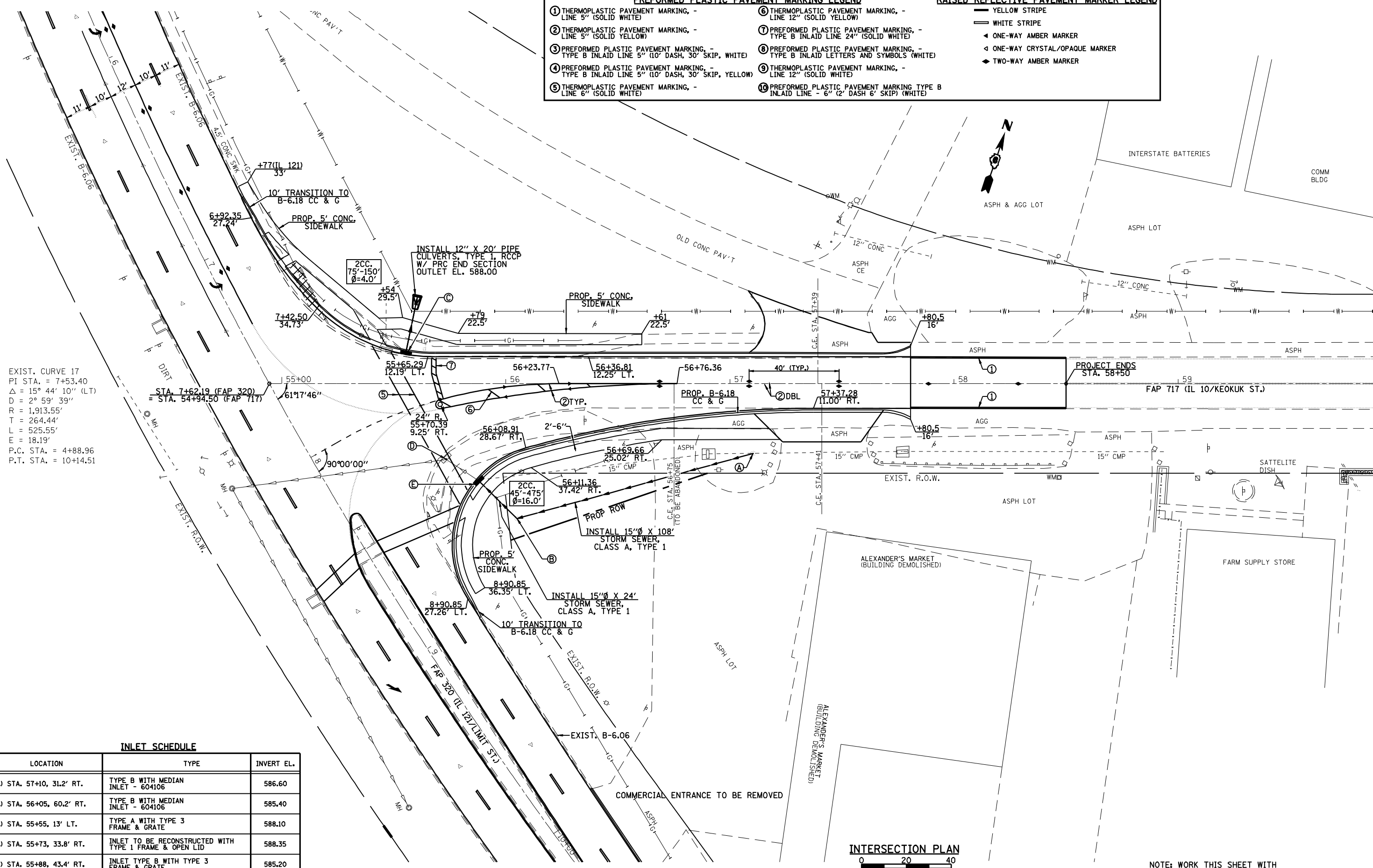


BENCHMARKS:	BM - 60d NAIL IN POWER POLE 46.4' LT. STA. 7+63 ELEV. 590.11	610
	BM*501 - CHISELED "□" IN N.E. CORNER OF 4' X 4' CONC. DROP BOX INLET 37.2' RT. STA. 15+02 ELEV. 586.05	610
	BM*502 - CHISELED "□" IN N.E. CORNER OF 5.5' X 7' CONC. SIGN FOUNDATION LOCATED AT N.W. CORNER OF TREMONT ST. AND LIMIT ST. 33' RT. STA. 25+93.5 ELEV. 590.72	605

USER NAME = laughlir1	DESIGNED -	REVISED -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	PLAN & PROFILE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -				717	(242)RS-4, N 116-RS-5	LOGAN	32	18
PLOT DATE = Mar-18-2010 02:17:03PM	DRAWN -	REVISED -		SCALE: 1" = 20'	SHEET NO. 18 OF 32 SHEETS	STA. 55+26.50 TO STA. 58+50.00	CONTRACT NO. 72998			
	CHECKED -	REVISED -					FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

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PREFORMED PLASTIC PAVEMENT MARKING LEGEND		RAISED REFLECTIVE PAVEMENT MARKER LEGEND
① THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID WHITE)	⑥ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID YELLOW)	— YELLOW STRIPE
② THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID YELLOW)	⑦ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 24" (SOLID WHITE)	— WHITE STRIPE
③ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, WHITE)	⑧ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LETTERS AND SYMBOLS (WHITE)	◀ ONE-WAY AMBER MARKER
④ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, YELLOW)	⑨ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID WHITE)	◁ ONE-WAY CRYSTAL/OPAQUE MARKER
⑤ THERMOPLASTIC PAVEMENT MARKING, - LINE 6" (SOLID WHITE)	⑩ PREFORMED PLASTIC PAVEMENT MARKING TYPE B INLAID LINE - 6" (2' DASH 6' SKIP) (WHITE)	◀ TWO-WAY AMBER MARKER

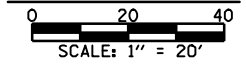


EXIST. CURVE 17
 PI STA. = 7+53.40
 $\Delta = 15^\circ 44' 10''$ (LT)
 $D = 2^\circ 59' 39''$
 $R = 1,913.55'$
 $T = 264.44'$
 $L = 525.55'$
 $E = 18.19'$
 P.C. STA. = 4+88.96
 P.T. STA. = 10+14.51

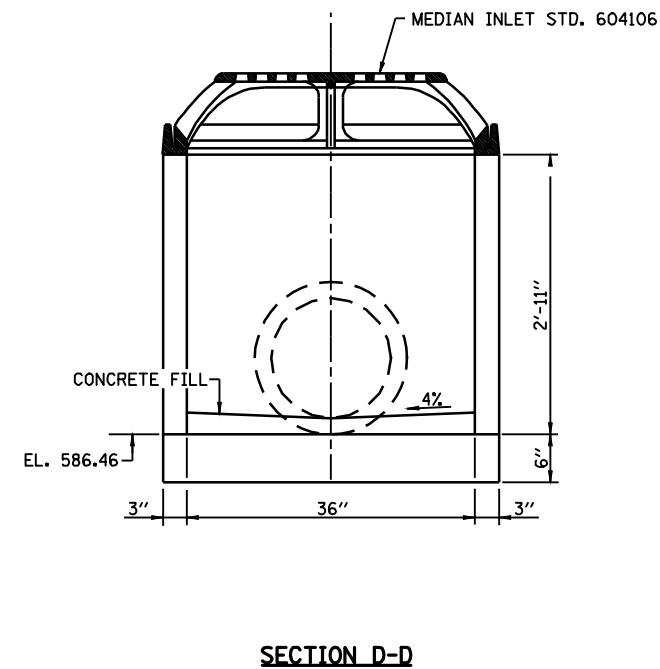
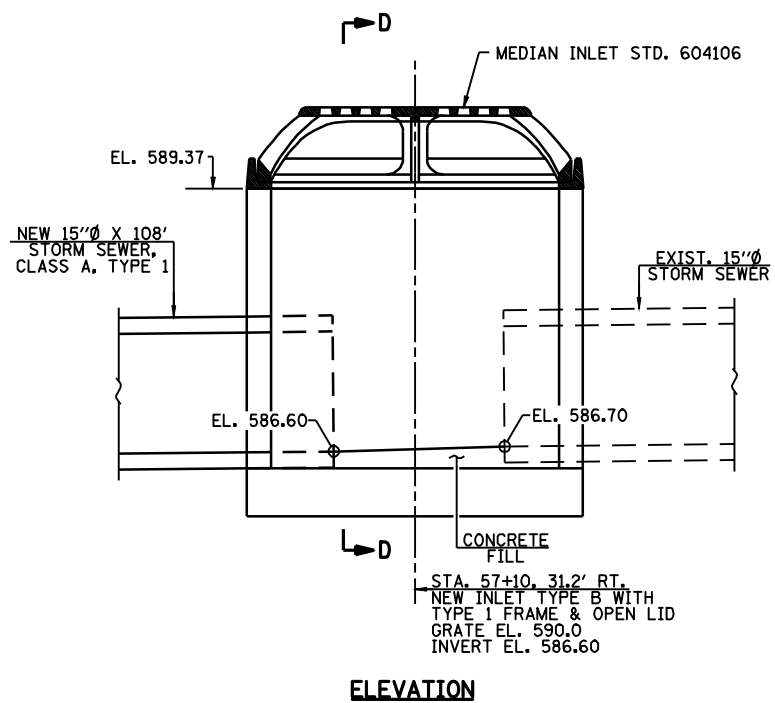
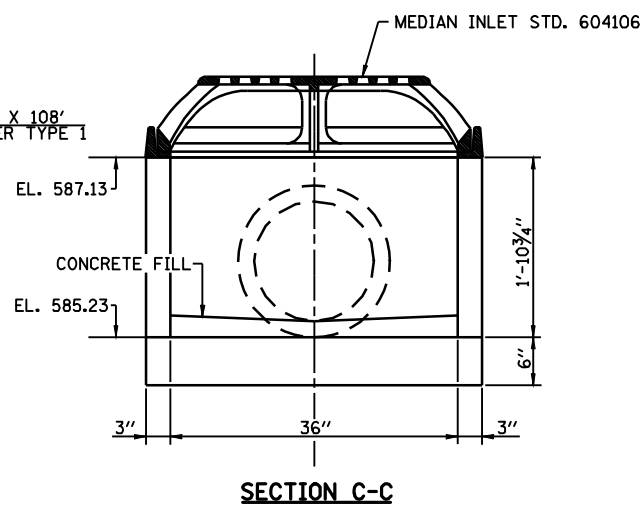
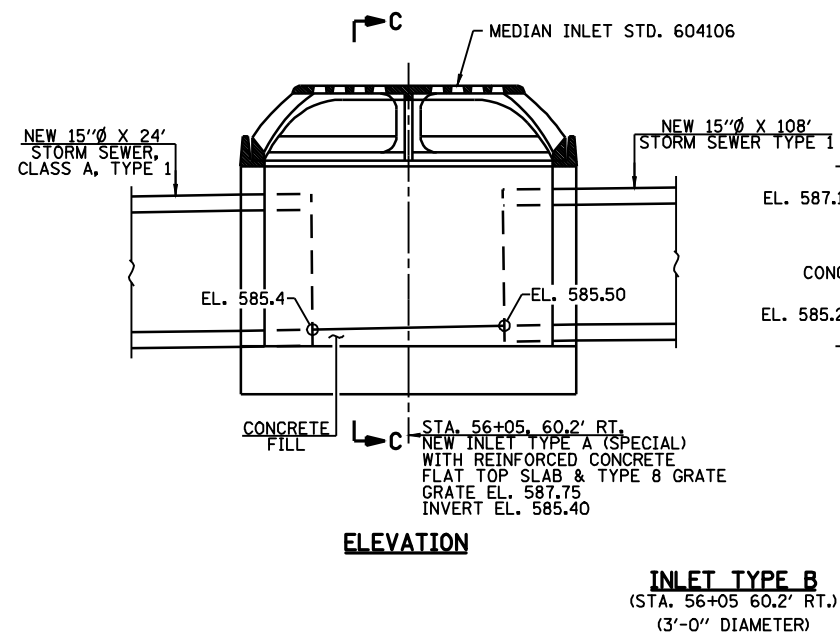
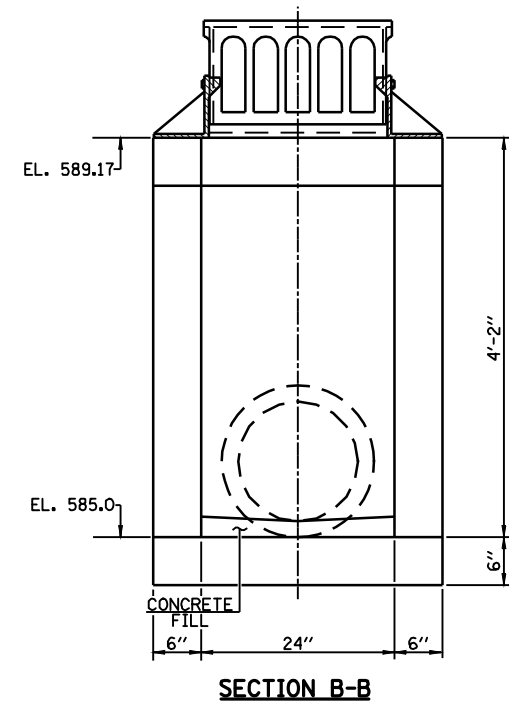
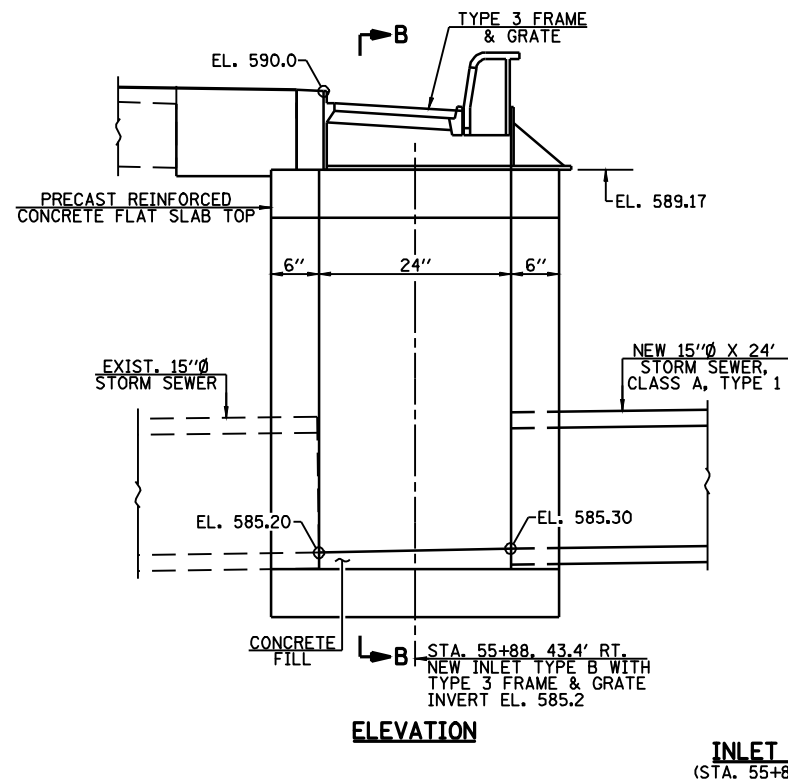
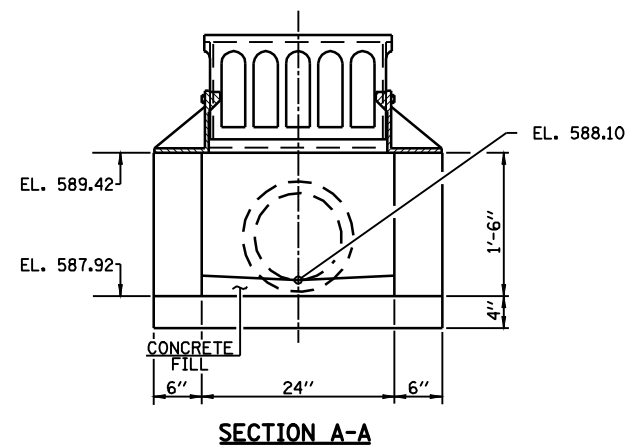
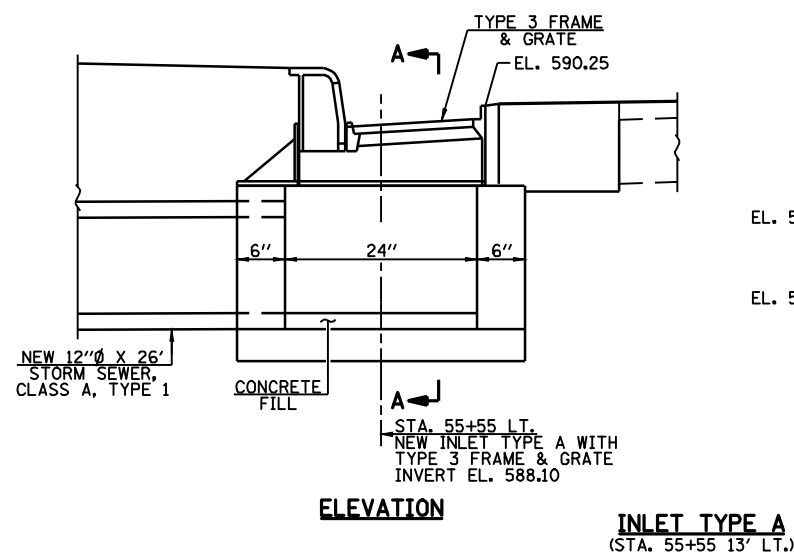
INLET SCHEDULE

LOCATION	TYPE	INVERT EL.
A.) STA. 57+10, 31.2' RT.	TYPE B WITH MEDIAN INLET - 604106	586.60
B.) STA. 56+05, 60.2' RT.	TYPE B WITH MEDIAN INLET - 604106	585.40
C.) STA. 55+55, 13' LT.	TYPE A WITH TYPE 3 FRAME & GRATE	588.10
D.) STA. 55+73, 33.8' RT.	INLET TO BE RECONSTRUCTED WITH TYPE 1 FRAME & OPEN LID	588.35
E.) STA. 55+88, 43.4' RT.	INLET TYPE B WITH TYPE 3 FRAME & GRATE	585.20

INTERSECTION PLAN



NOTE: WORK THIS SHEET WITH SHEETS NO. 18 & 20



NOTE: WORK THIS SHEET WITH SHEETS NO. 18 & 19

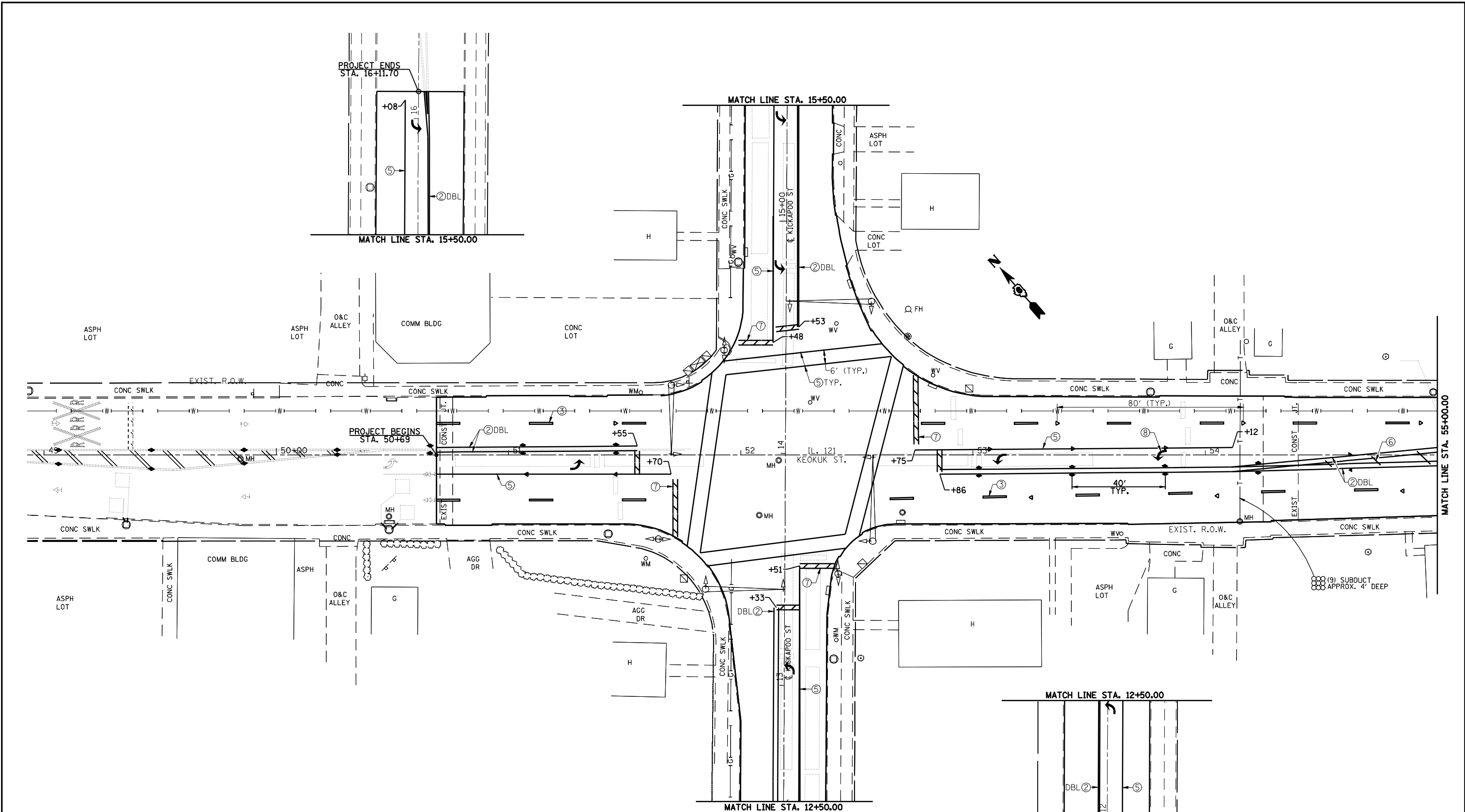
FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -
er\pwwork\pwwid\LAUGHLINRL\laughlinr1\2010\72998-shr-draw.dgn		DRAWN -	REVISED -
PLOT SCALE = 2.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = Mar-18-2010 02:17:08PM		DATE -	REVISED -



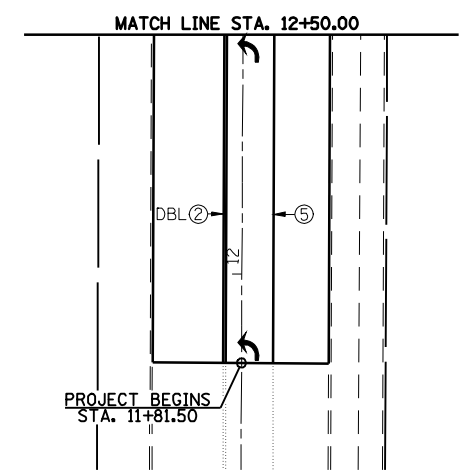
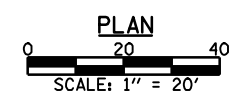
Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL
62703 Phone: (217)544-8033 IL Design Firm
No. 184-001907

INLET DETAILS			
SCALE: 1/2" = 1'	SHEET NO. 20 OF 32 SHEETS	STA.	TO STA.

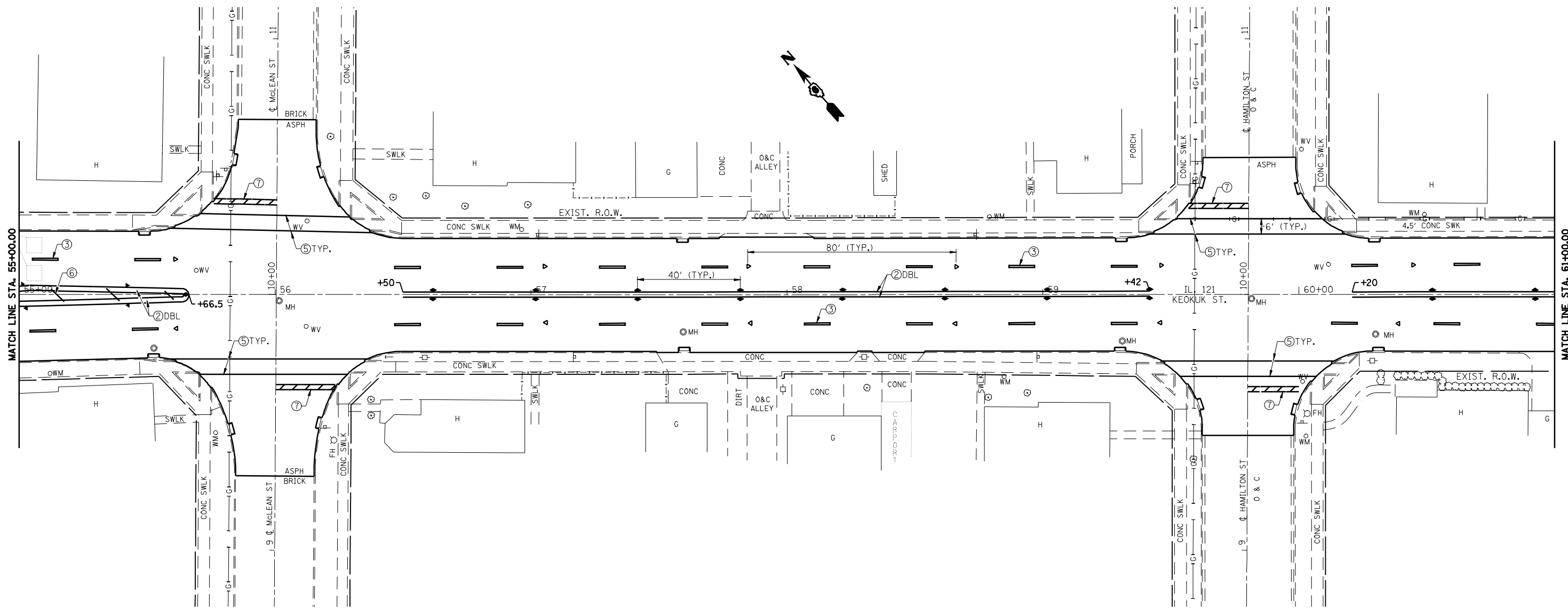
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(24Z)RS-4, N 116RS-5	LOGAN	32	20
CONTRACT NO. 72988				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



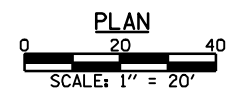
PREFORMED PLASTIC PAVEMENT MARKING LEGEND		RAISED REFLECTIVE PAVEMENT MARKER LEGEND
① THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID WHITE)	⑥ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID YELLOW)	— YELLOW STRIPE
② THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID YELLOW)	⑦ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 24" (SOLID WHITE)	— WHITE STRIPE
③ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, WHITE)	⑧ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LETTERS AND SYMBOLS (WHITE)	◀ ONE-WAY AMBER MARKER
④ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, YELLOW)	⑨ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID WHITE)	◀ ONE-WAY CRYSTAL/OPAQUE MARKER
⑤ THERMOPLASTIC PAVEMENT MARKING, - LINE 6" (SOLID WHITE)	⑩ PREFORMED PLASTIC PAVEMENT MARKING TYPE B INLAID LINE - 6" (2' DASH 6' SKIP) (WHITE)	◆ TWO-WAY AMBER MARKER



FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -		Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	STRIPING AND PAVEMENT MARKER PLAN		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / IN.	DRAWN -	REVISED -					320	(242)RS-4, N; 116RS-5	LOGAN	32	21
	PLOT DATE = Mar-18-2010 02:17:11PM	CHECKED -	REVISED -			SCALE: 1" = 20' SHEET NO. 21 OF 32 SHEETS STA. 50+69.00 TO STA. 55+00.00				CONTRACT NO. 72998		
		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						



PREFORMED PLASTIC PAVEMENT MARKING LEGEND		RAISED REFLECTIVE PAVEMENT MARKER LEGEND
① THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID WHITE)	⑥ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID YELLOW)	— YELLOW STRIPE
② THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID YELLOW)	⑦ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 24" (SOLID WHITE)	— WHITE STRIPE
③ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, WHITE)	⑧ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LETTERS AND SYMBOLS (WHITE)	◀ ONE-WAY AMBER MARKER
④ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, YELLOW)	⑨ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID WHITE)	◀ ONE-WAY CRYSTAL/OPAQUE MARKER
⑤ THERMOPLASTIC PAVEMENT MARKING, - LINE 6" (SOLID WHITE)	⑩ PREFORMED PLASTIC PAVEMENT MARKING TYPE B INLAID LINE - 6" (2' DASH 6' SKIP) (WHITE)	◆ TWO-WAY AMBER MARKER



FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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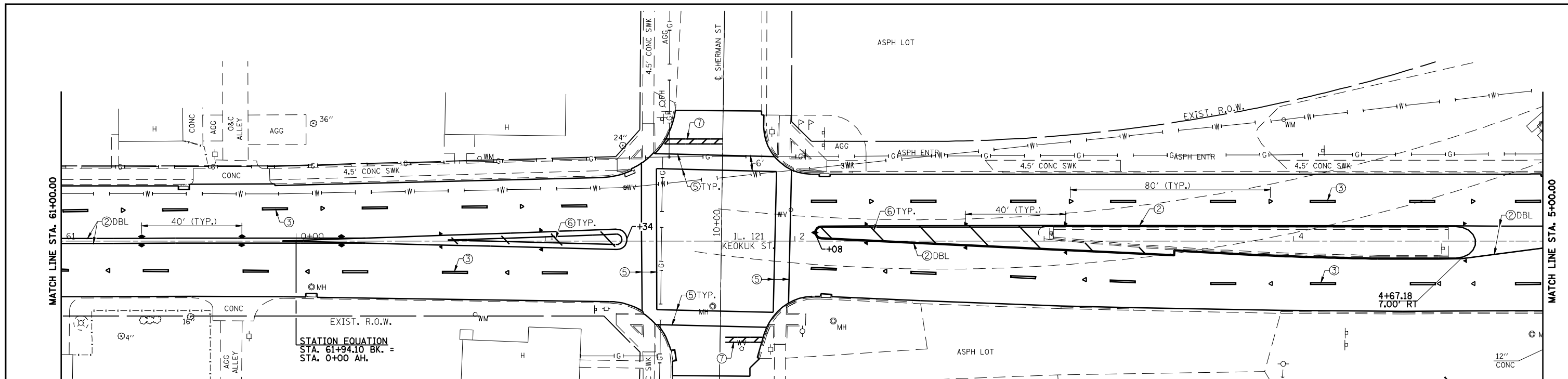


Allen Henderson & Associates, Inc.
 Civil and Structural Engineers Springfield, IL
 62703 Phone: (217)544-8033 IL Design Firm
 No. 184-001907

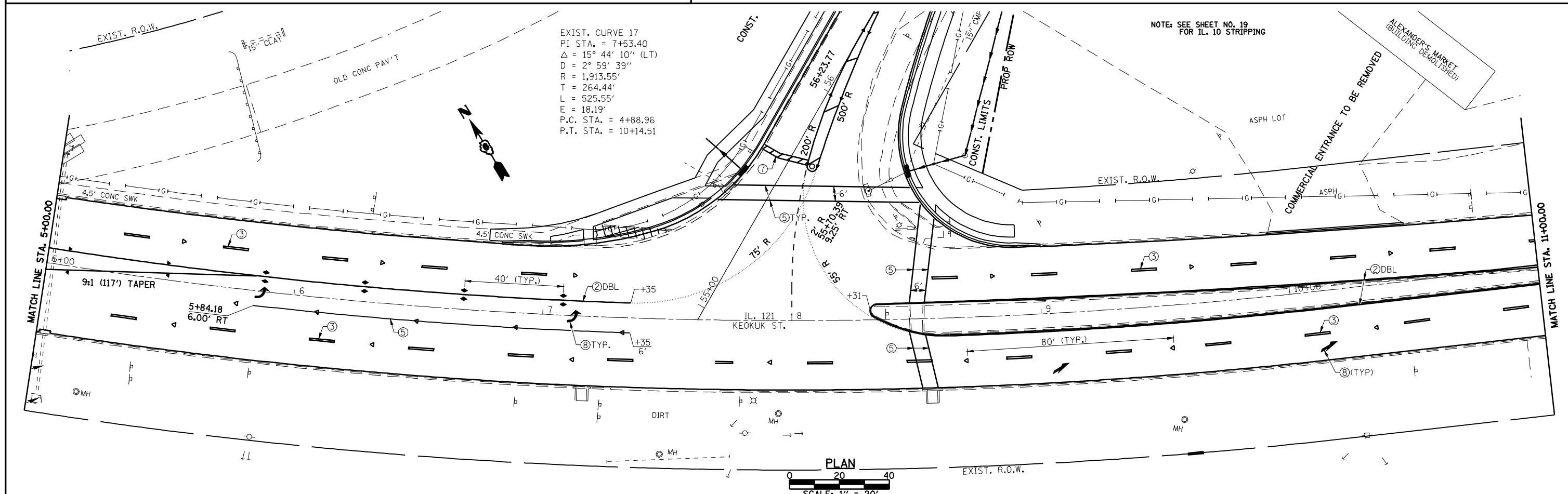
STRIPING AND PAVEMENT MARKER PLAN	
SCALE: 1" = 20'	SHEET NO. 22 OF 32 SHEETS
STA. 55+00.00 TO STA. 61+00.00	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(24Z)RS-4, N; 116RS-5	LOGAN	32	22
CONTRACT NO. 72998				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

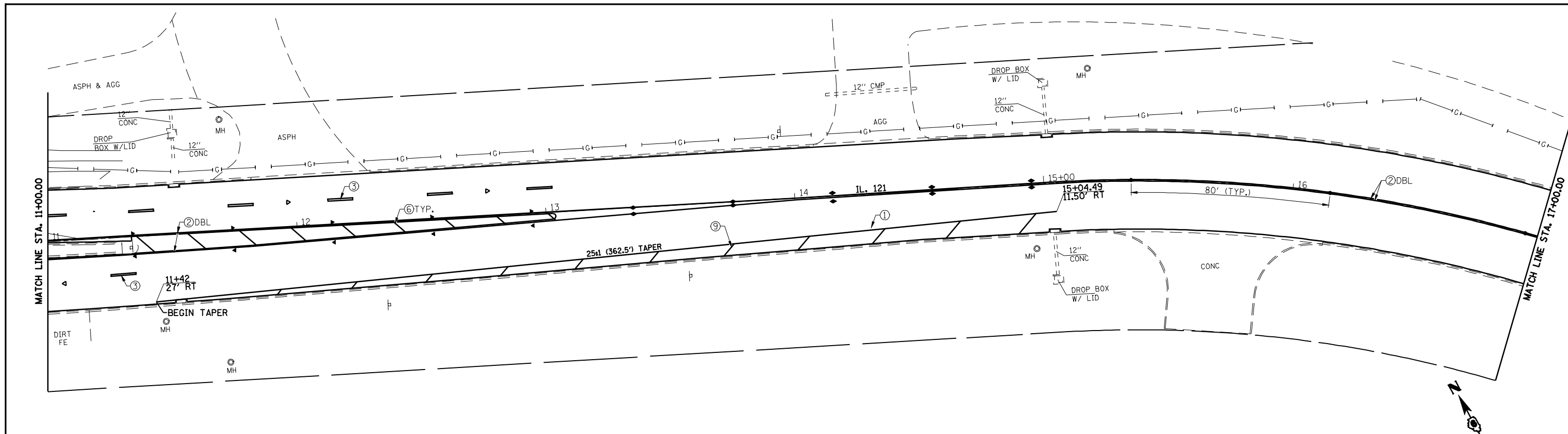
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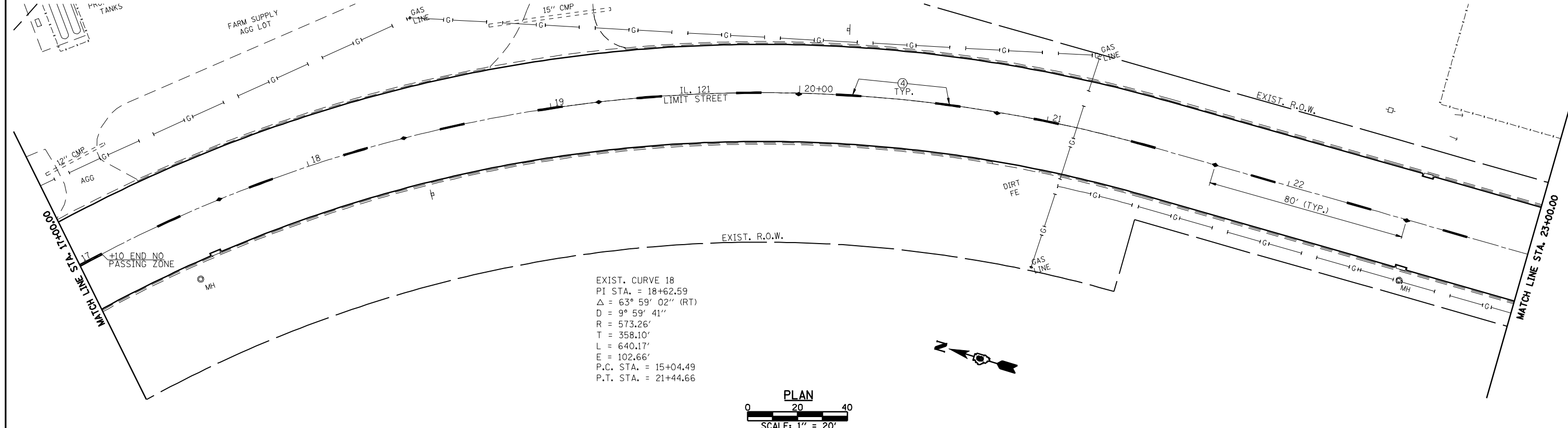
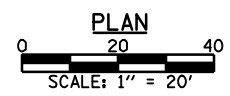
- PREFORMED PLASTIC PAVEMENT MARKING LEGEND**
- ① THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID WHITE)
 - ② THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID YELLOW)
 - ③ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, WHITE)
 - ④ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, YELLOW)
 - ⑤ THERMOPLASTIC PAVEMENT MARKING, - LINE 6" (SOLID WHITE)
 - ⑥ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID YELLOW)
 - ⑦ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 24" (SOLID WHITE)
 - ⑧ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LETTERS AND SYMBOLS (WHITE)
 - ⑨ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID WHITE)
 - ⑩ PREFORMED PLASTIC PAVEMENT MARKING TYPE B INLAID LINE - 6" (2' DASH 6' SKIP) (WHITE)
- RAISED REFLECTIVE PAVEMENT MARKER LEGEND**
- YELLOW STRIPE
 - WHITE STRIPE
 - ◀ ONE-WAY AMBER MARKER
 - ◀ ONE-WAY CRYSTAL/OPAQUE MARKER
 - ◆ TWO-WAY AMBER MARKER



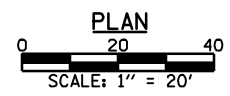
FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	STRIPING AND PAVEMENT MARKER PLAN		F.A.P. RTE. 320	SECTION (242)RS-4, N 116RS-5	COUNTY LOGAN	TOTAL SHEETS 32	SHEET NO. 23	
PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -	REVISED -		SCALE: 1" = 20'	SHEET NO. 23 OF 32 SHEETS	STA. 61+00.00 TO STA. 11+00.00	CONTRACT NO. 72998		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	
PLOT DATE = Mar-18-2010 02:17:17PM	DATE -	REVISED -	REVISED -									
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- | PREFORMED PLASTIC PAVEMENT MARKING LEGEND | | RAISED REFLECTIVE PAVEMENT MARKER LEGEND |
|--|--|--|
| ① THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID WHITE) | ⑥ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID YELLOW) | — YELLOW STRIPE |
| ② THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID YELLOW) | ⑦ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 24" (SOLID WHITE) | — WHITE STRIPE |
| ③ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, WHITE) | ⑧ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LETTERS AND SYMBOLS (WHITE) | ◀ ONE-WAY AMBER MARKER |
| ④ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, YELLOW) | ⑨ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID WHITE) | ◀ ONE-WAY CRYSTAL/OPAQUE MARKER |
| ⑤ THERMOPLASTIC PAVEMENT MARKING, - LINE 6" (SOLID WHITE) | ⑩ PREFORMED PLASTIC PAVEMENT MARKING TYPE B INLAID LINE - 6" (2' DASH 6' SKIP) (WHITE) | ◆ TWO-WAY AMBER MARKER |



EXIST. CURVE 18
 PI STA. = 18+62.59
 $\Delta = 63^\circ 59' 02''$ (RT)
 $D = 9^\circ 59' 41''$
 $R = 573.26'$
 $T = 358.10'$
 $L = 640.17'$
 $E = 102.66'$
 P.C. STA. = 15+04.49
 P.T. STA. = 21+44.66



FILE NAME =
 USER NAME = laughlinr1
 PLOT SCALE = 40.0000' / IN.
 PLOT DATE = Mar-18-2010 02:17:21PM

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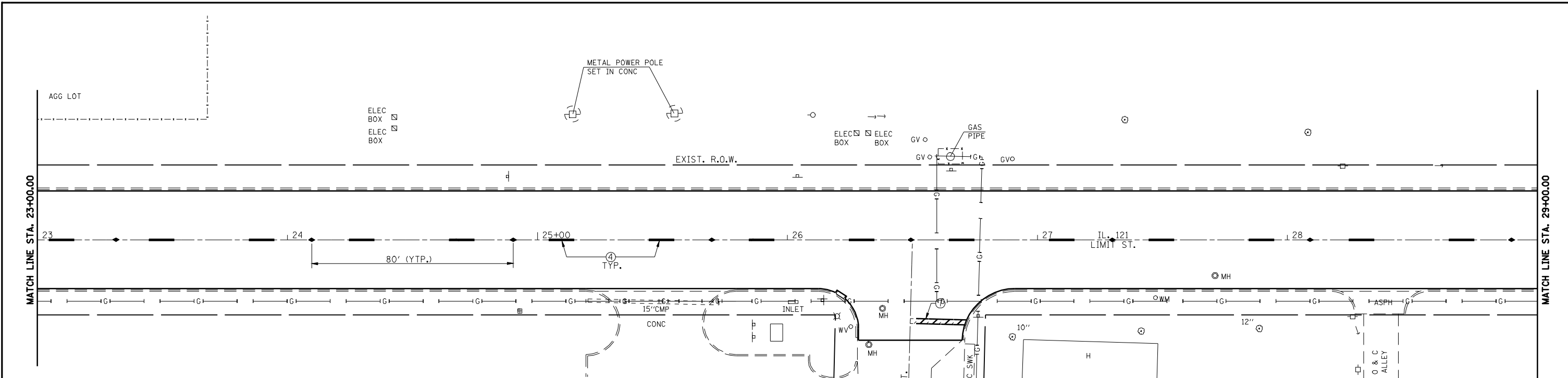


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 No. 184-001907

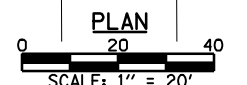
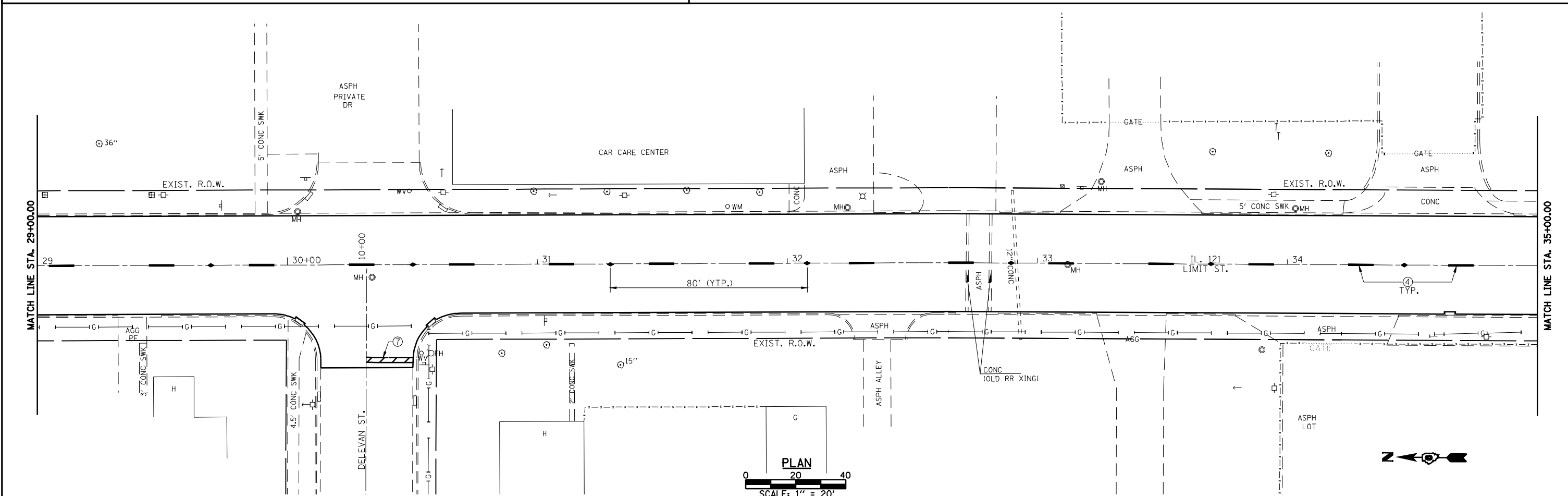
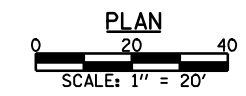
STRIPING AND PAVEMENT MARKER PLAN
 SCALE: 1" = 20' SHEET NO. 24 OF 32 SHEETS STA. 11+00.00 TO STA. 23+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(24ZRS-4, N; 116RS-5	LOGAN	32	24
CONTRACT NO. 72998				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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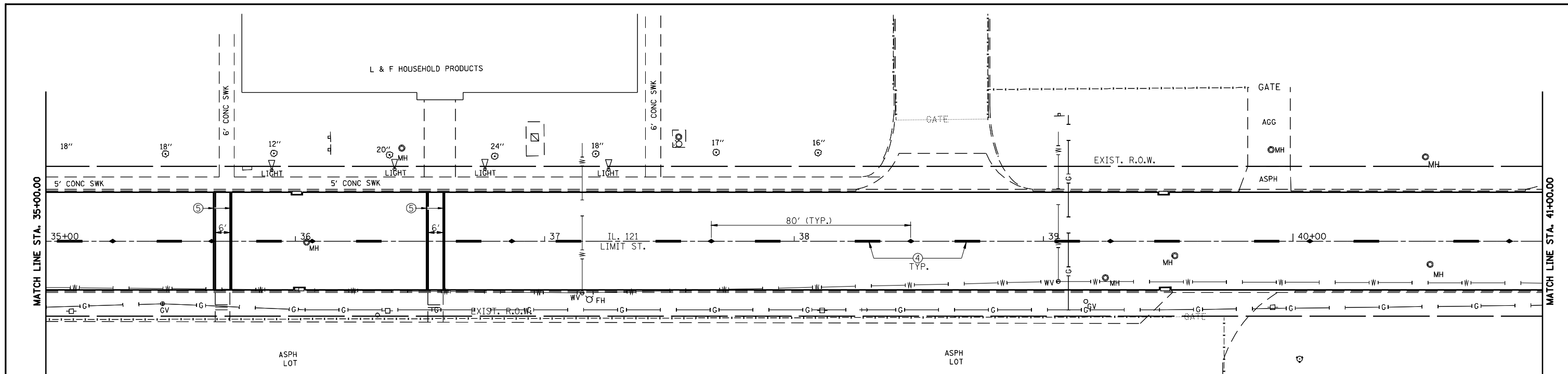


- | PREFORMED PLASTIC PAVEMENT MARKING LEGEND | | RAISED REFLECTIVE PAVEMENT MARKER LEGEND |
|--|--|--|
| ① THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID WHITE) | ⑥ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID YELLOW) | — YELLOW STRIPE |
| ② THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID YELLOW) | ⑦ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 24" (SOLID WHITE) | — WHITE STRIPE |
| ③ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, WHITE) | ⑧ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LETTERS AND SYMBOLS (WHITE) | ◀ ONE-WAY AMBER MARKER |
| ④ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, YELLOW) | ⑨ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID WHITE) | ◀ ONE-WAY CRYSTAL/OPAQUE MARKER |
| ⑤ THERMOPLASTIC PAVEMENT MARKING, - LINE 6" (SOLID WHITE) | ⑩ PREFORMED PLASTIC PAVEMENT MARKING TYPE B INLAID LINE - 6" (2' DASH 6' SKIP) (WHITE) | ◆ TWO-WAY AMBER MARKER |

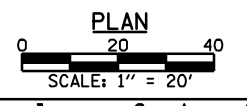
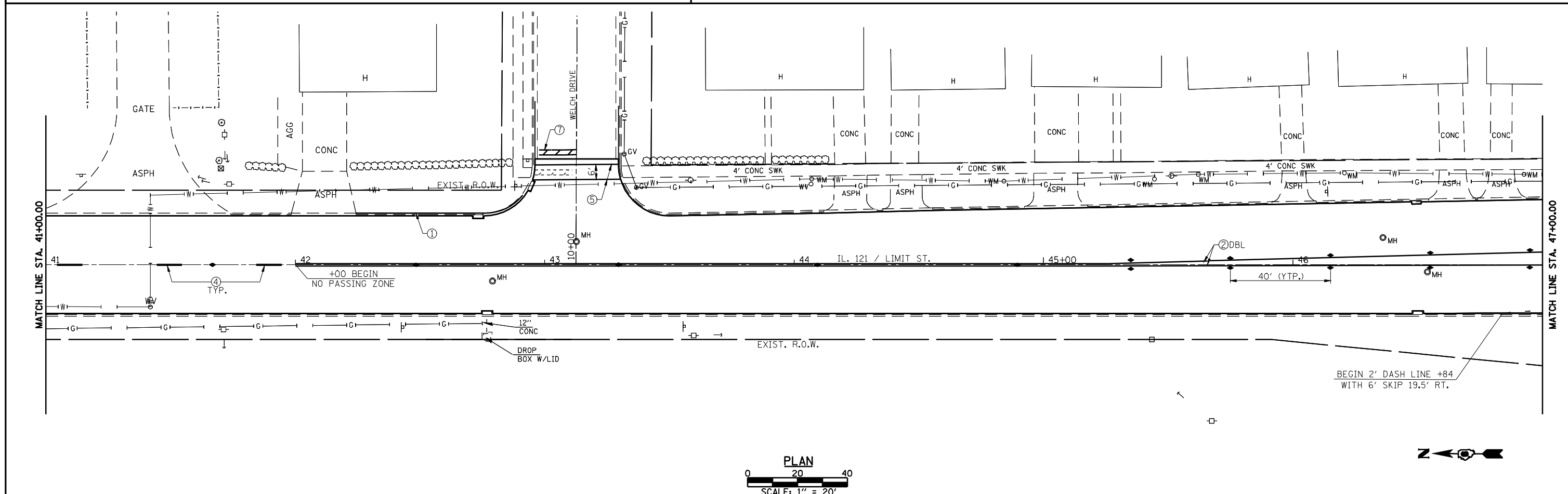
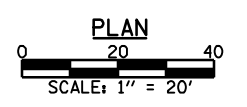


FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	STRIPING AND PAVEMENT MARKER PLAN		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -	320				(242RS-4, N 116RS-5	LOGAN	32	25	
PLOT DATE = Mar-18-2010 02:17:23PM	DATE -	REVISED -	SCALE: 1" = 20'		SHEET NO. 25 OF 32 SHEETS	STA. 23+00.00 TO STA. 35+00.00	CONTRACT NO. 72998				
							FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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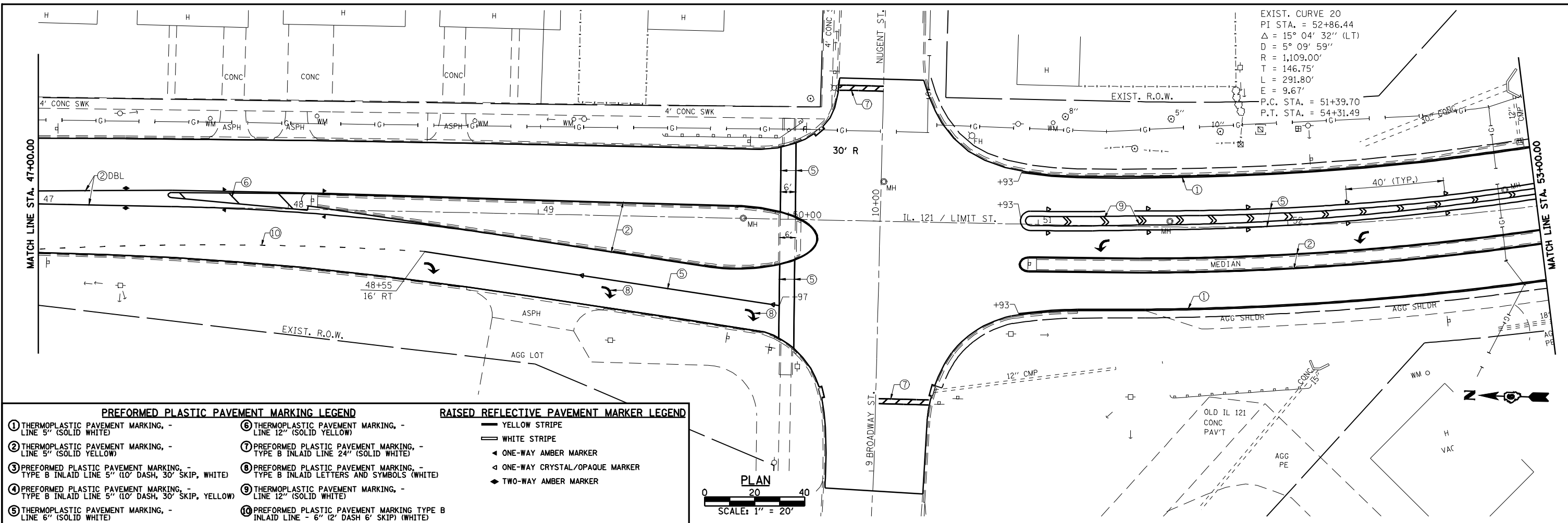


PREFORMED PLASTIC PAVEMENT MARKING LEGEND		RAISED REFLECTIVE PAVEMENT MARKER LEGEND
① THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID WHITE)	⑥ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID YELLOW)	— YELLOW STRIPE
② THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID YELLOW)	⑦ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 24" (SOLID WHITE)	— WHITE STRIPE
③ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, WHITE)	⑧ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LETTERS AND SYMBOLS (WHITE)	◀ ONE-WAY AMBER MARKER
④ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, YELLOW)	⑨ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID WHITE)	◀ ONE-WAY CRYSTAL/OPAQUE MARKER
⑤ THERMOPLASTIC PAVEMENT MARKING, - LINE 6" (SOLID WHITE)	⑩ PREFORMED PLASTIC PAVEMENT MARKING TYPE B INLAID LINE - 6" (2' DASH 6' SKIP) (WHITE)	◀ TWO-WAY AMBER MARKER

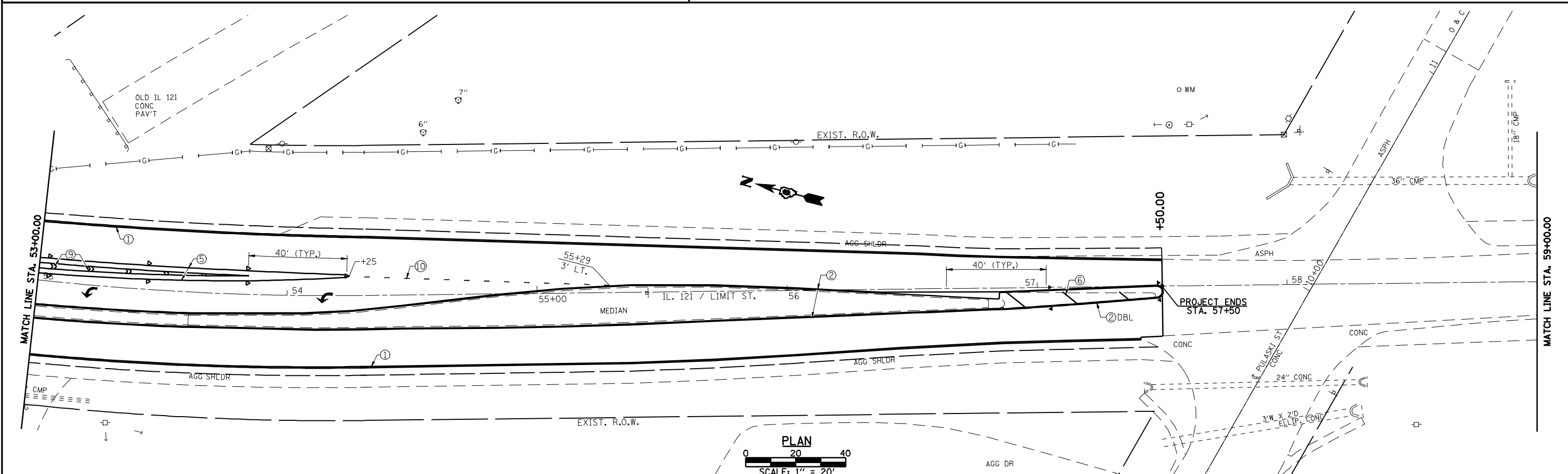


FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	STRIPING AND PAVEMENT MARKER PLAN SCALE: 1" = 20' SHEET NO. 26 OF 32 SHEETS STA. 35+00.00 TO STA. 47+00.00		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -	320				(24ZRS-4, N, 116RS-5	LOGAN	32	26	
PLOT DATE = Mar-18-2010 02:17:27PM	DATE	REVISED -	CONTRACT NO. 72998		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT				

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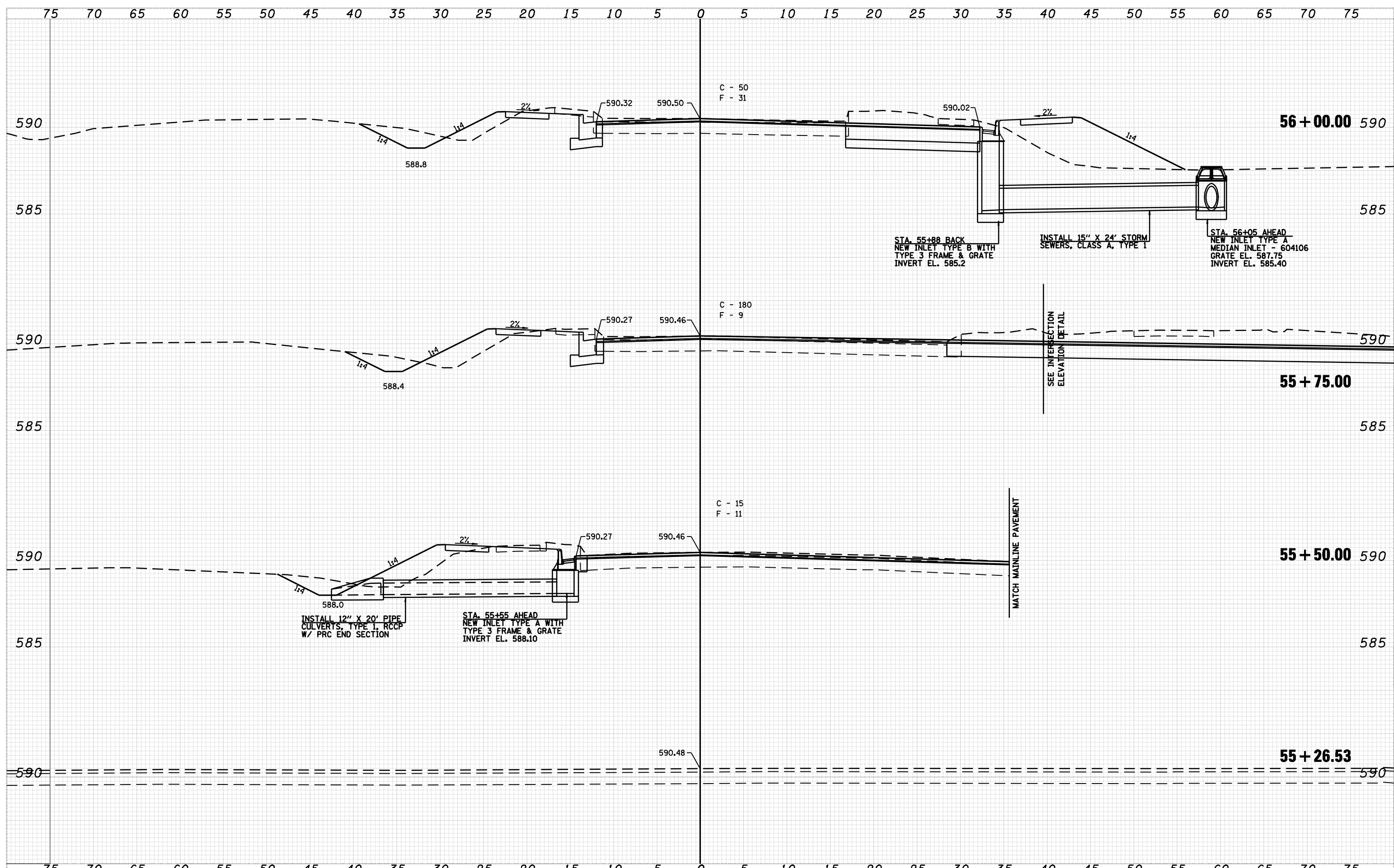
- PREFORMED PLASTIC PAVEMENT MARKING LEGEND**
- ① THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID WHITE)
 - ② THERMOPLASTIC PAVEMENT MARKING, - LINE 5" (SOLID YELLOW)
 - ③ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, WHITE)
 - ④ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 5" (10' DASH, 30' SKIP, YELLOW)
 - ⑤ THERMOPLASTIC PAVEMENT MARKING, - LINE 6" (SOLID WHITE)
 - ⑥ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID YELLOW)
 - ⑦ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LINE 24" (SOLID WHITE)
 - ⑧ PREFORMED PLASTIC PAVEMENT MARKING, - TYPE B INLAID LETTERS AND SYMBOLS (WHITE)
 - ⑨ THERMOPLASTIC PAVEMENT MARKING, - LINE 12" (SOLID WHITE)
 - ⑩ PREFORMED PLASTIC PAVEMENT MARKING TYPE B INLAID LINE - 6" (2' DASH 6' SKIP) (WHITE)
- RAISED REFLECTIVE PAVEMENT MARKER LEGEND**
- YELLOW STRIPE
 - WHITE STRIPE
 - ◀ ONE-WAY AMBER MARKER
 - ◀ ONE-WAY CRYSTAL/OPAQUE MARKER
 - ◀ TWO-WAY AMBER MARKER
- PLAN
SCALE: 1" = 20'



FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	STRIPING AND PAVEMENT MARKER PLAN		F.A.P. RTE. 320	SECTION (242)RS-4, N; 116RS-5	COUNTY LOGAN	TOTAL SHEETS 32	SHEET NO. 27	
PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -	REVISED -		SCALE: 1" = 20'	SHEET NO. 27 OF 32 SHEETS	STA. 47+00.00 TO STA. 59+00.00	CONTRACT NO. 72998		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
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NOTE BOOK	
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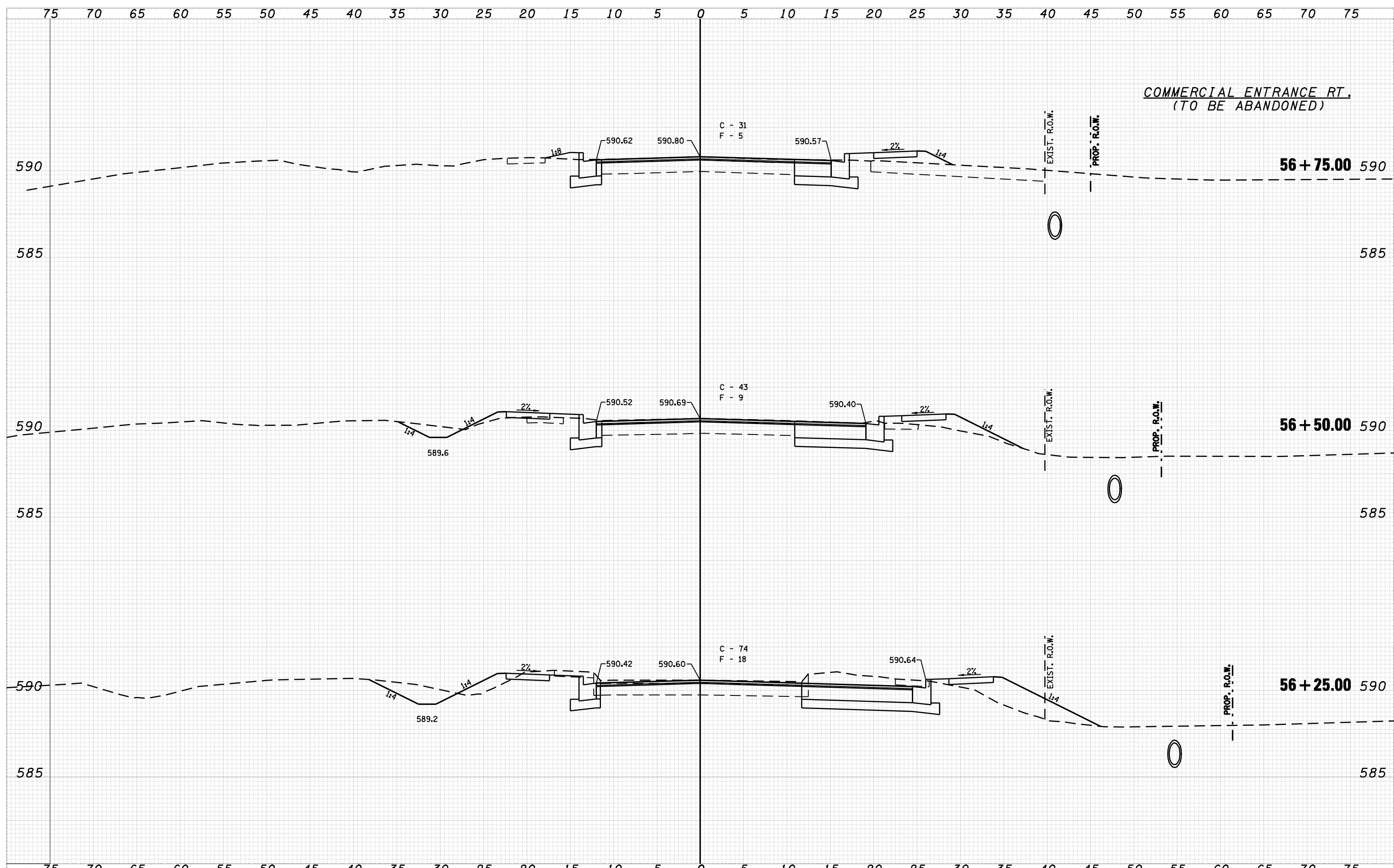


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		DATE -	REVISED -		STA. 55+26.53 TO STA. 56+00.00		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		


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FINAL SURVEY	
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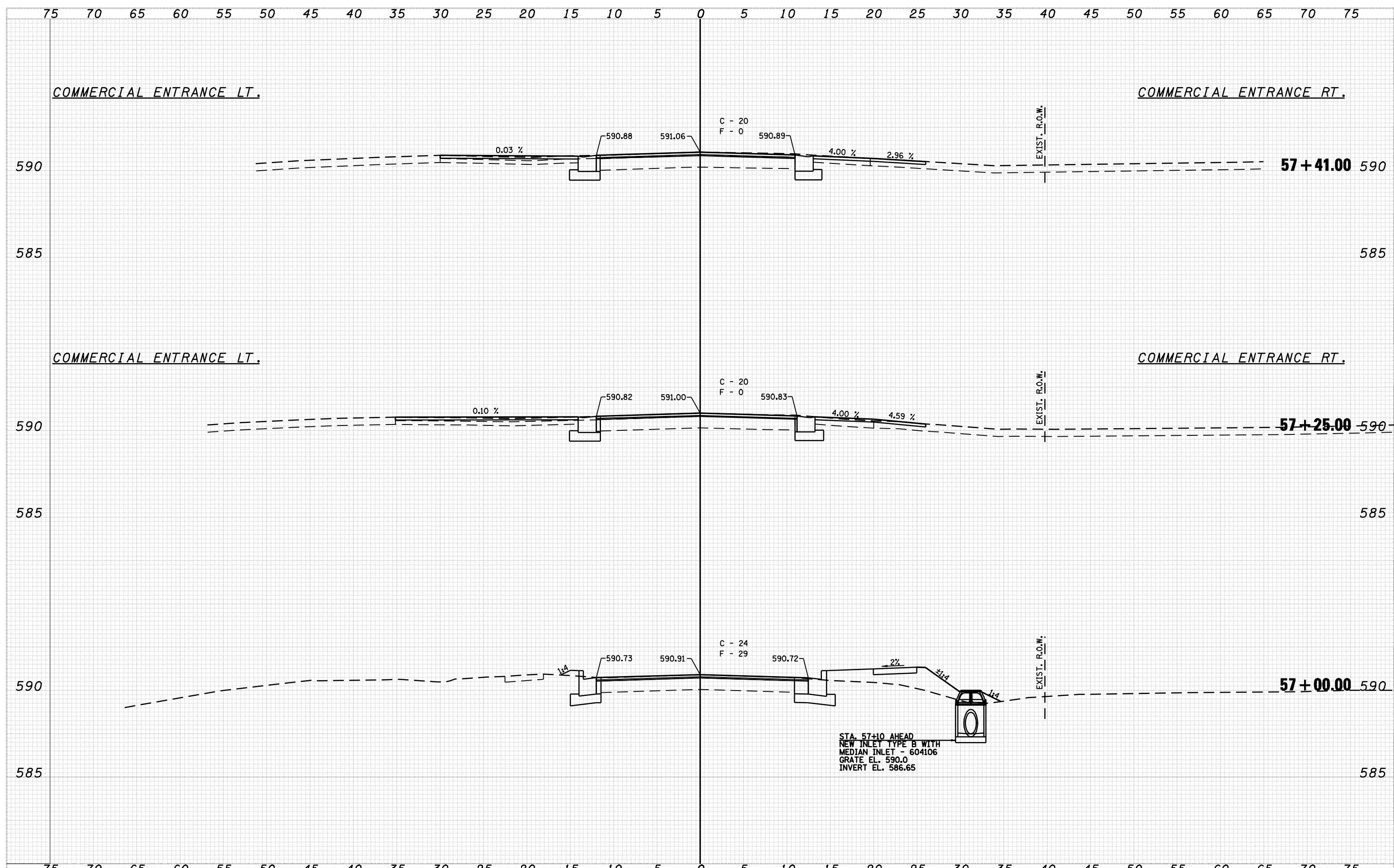
COMMERCIAL ENTRANCE RT.
(TO BE ABANDONED)

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISIED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	CROSS SECTIONS		IL RTE. 10	SECTION (24ZRS-4, N; 116RS-5)	COUNTY LOGAN	TOTAL SHEETS 32	SHEET NO. 29	
	PLOT SCALE = 10.0000' / IN.	DRAWN -	REVISIED -		SCALE: VARIES	SHEET NO. 29 OF 32 SHEETS	STA. 56+25.00	TO STA. 56+75.00	CONTRACT NO. 72998			
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		DATE -	REVISIED -									

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FINAL SURVEY	
NOTE BOOK	
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ORIGINAL SURVEY	
NOTE BOOK	
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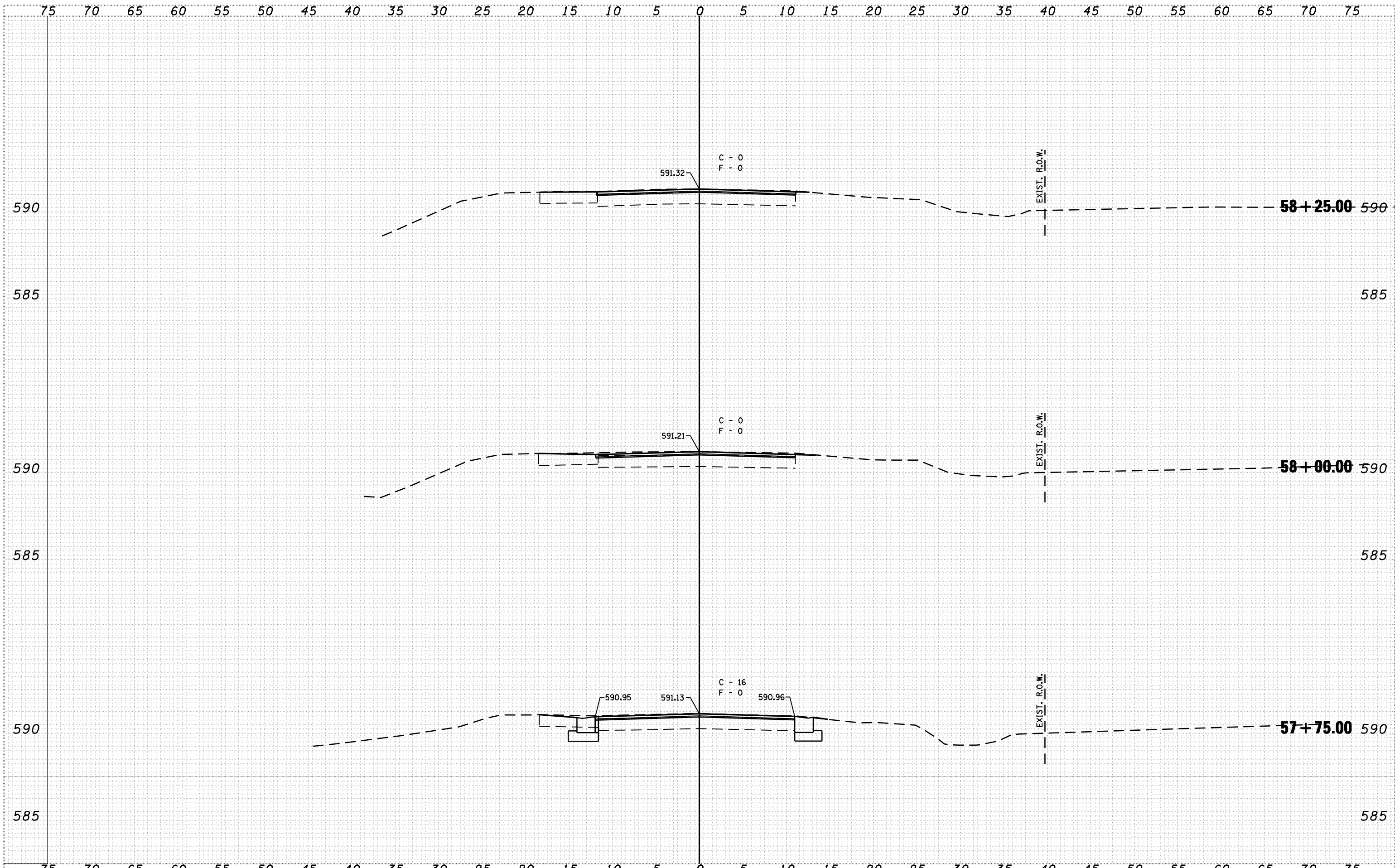



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	PLOT SCALE = 10.0000' / IN.	DRAWN -	REVISED -		SCALE: VARIES	SHEET NO. 32 OF 30 SHEETS	STA. 57+00.00 TO STA. 57+41.00
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NOTE BOOK	
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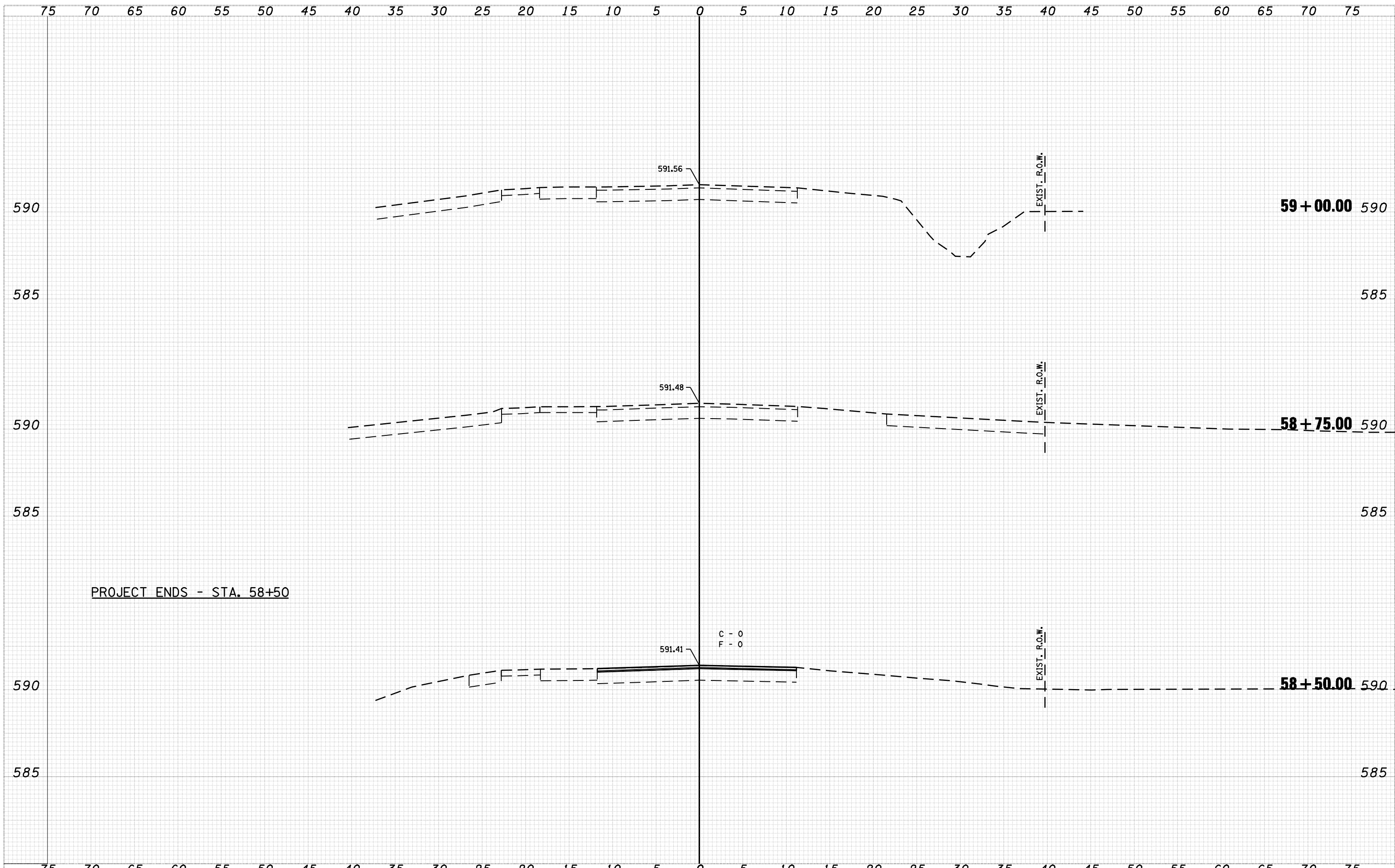



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	PLOT SCALE = 10.0000' / IN.	DRAWN -	REVISIED -		10	(24ZRS-4, N; 116RS-5	LOGAN	32	31				
	PLOT DATE = Mar-18-2010 02:17:46PM	CHECKED -	REVISIED -		SCALE: VARIES			SHEET NO. 31 OF 32 SHEETS		STA. 57+75.00 TO STA. 58+25.00		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
		DATE -	REVISIED -		CONTRACT NO. 72998								

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FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISIED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	CROSS SECTIONS		IL RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 10.0000' / IN.	DRAWN -	REVISIED -		10	(24ZRS-4, N; 116RS-5	LOGAN	32	32		
	PLOT DATE = Mar-18-2010 02:17:50PM	CHECKED -	REVISIED -		CONTRACT NO. 72998						
		DATE -	REVISIED -		SCALE: VARIES	SHEET NO. 32 OF 32 SHEETS	STA. 58+50.00 TO STA. 59+00.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

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