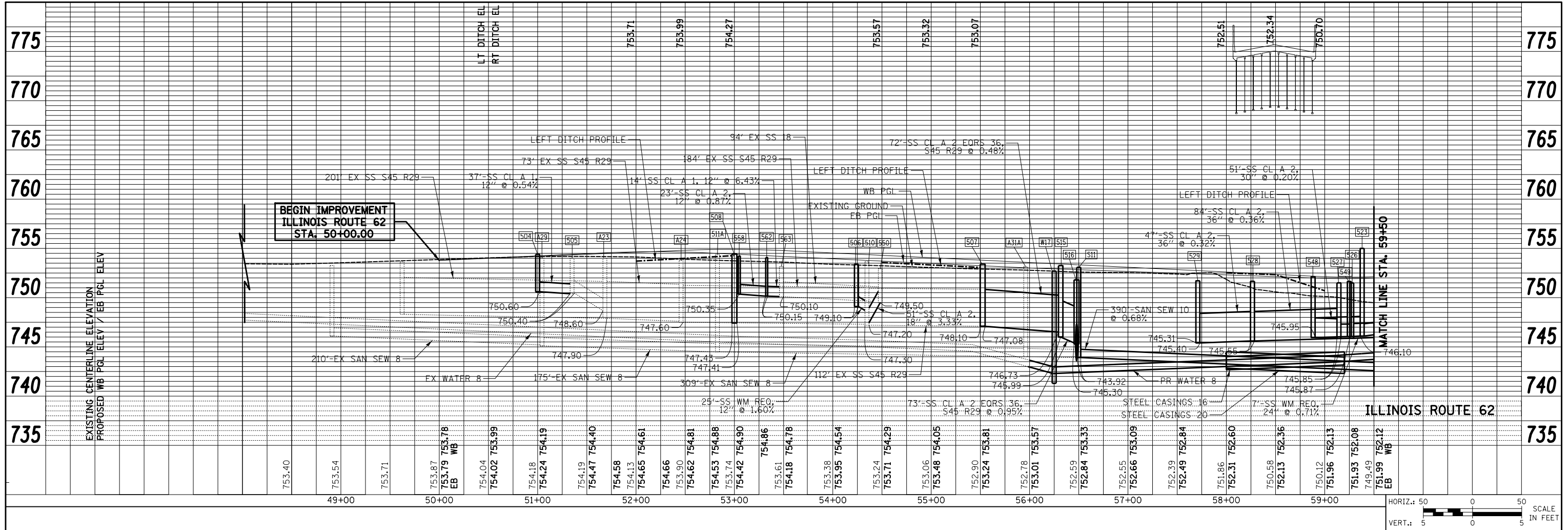
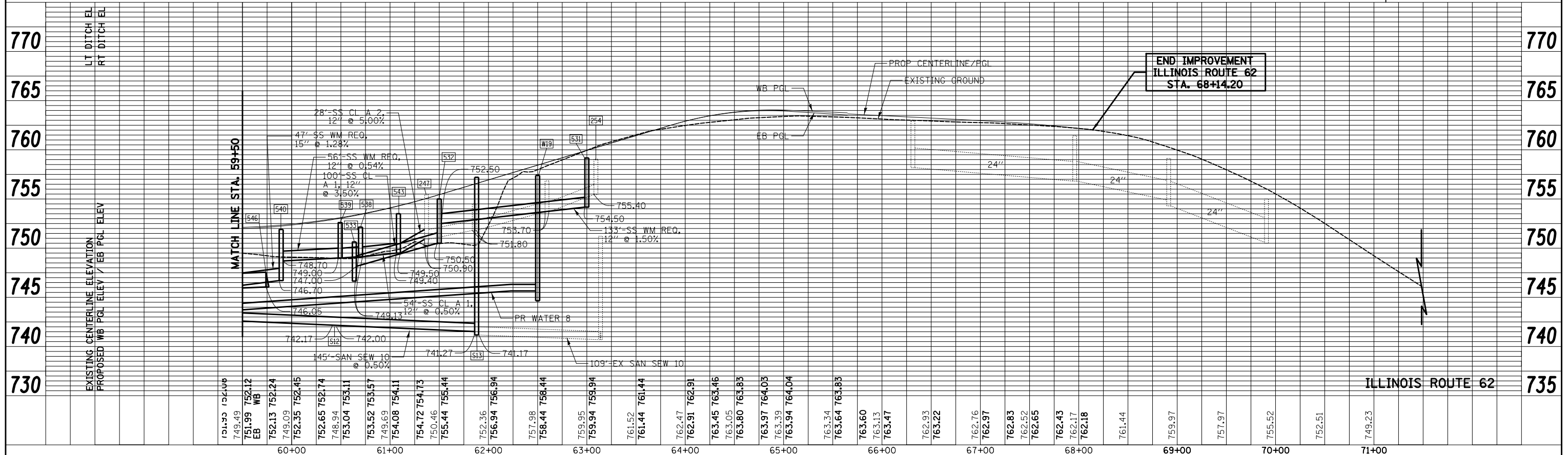


PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILE NAME	
	NO.	



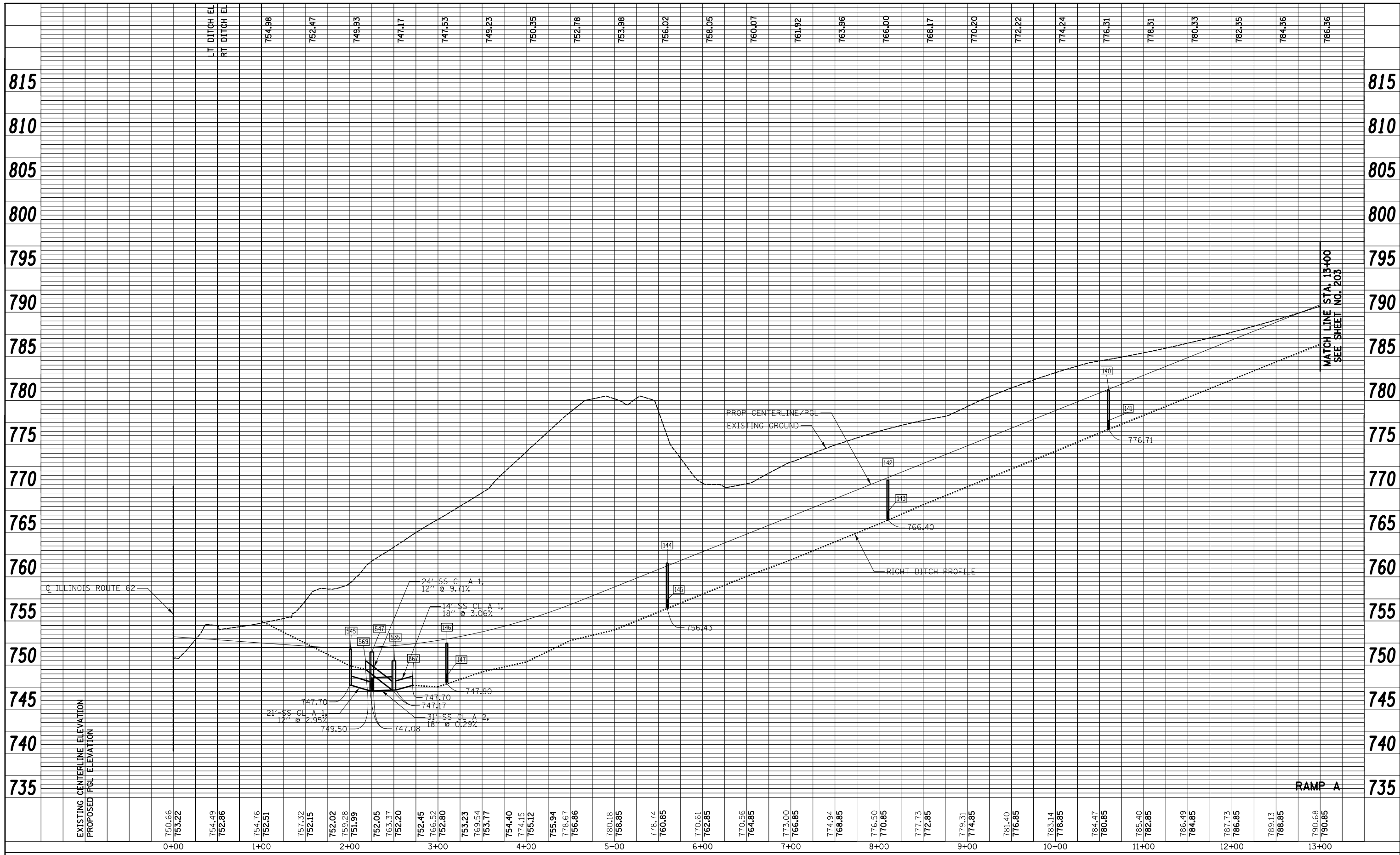
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	



FILE NAME = ... \D160F72-sht-drprf-10.dgn	USER NAME = ctb	DESIGNED - DTE	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DRAINAGE AND UTILITIES PROFILE</b>	O.R. RTE. 0003	SECTION 18A-2	COUNTY MCHENRY	TOTAL SHEETS 825	SHEET NO. 201	
	PLOT SCALE = 100.0000' / in.	CHECKED - GAB	REVISED -			SCALE:	SHEET NO. 10 OF 19 SHEETS	STA. 50+00	TO STA. 68+14.20		CONTRACT NO. 60F72
	PLOT DATE = 5/2/2012	DATE - 5/3/2012	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
	NO. _____		
	CADD FILE NAME		

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



EXISTING CENTERLINE ELEVATION	750.66	754.49	757.32	759.28	762.45	766.52	778.74	770.56	774.94	776.50	777.73	779.31	781.40	783.14	784.47	785.40	786.49	787.73	789.13	790.68
PROPOSED PGL ELEVATION	753.22	752.86	752.15	751.99	752.20	752.80	760.85	762.85	764.85	766.85	770.85	774.85	776.85	778.85	780.85	782.85	784.85	786.85	788.85	790.85

FILE NAME = ...\\D160F72-sht-drprf-11.dgn

USER NAME = ctb	DESIGNED - DTE	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - DTE	REVISED -
PLOT DATE = 5/2/2012	CHECKED - GAB	REVISED -
	DATE - 5/3/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

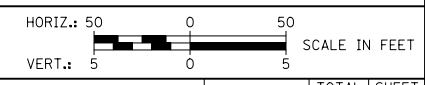
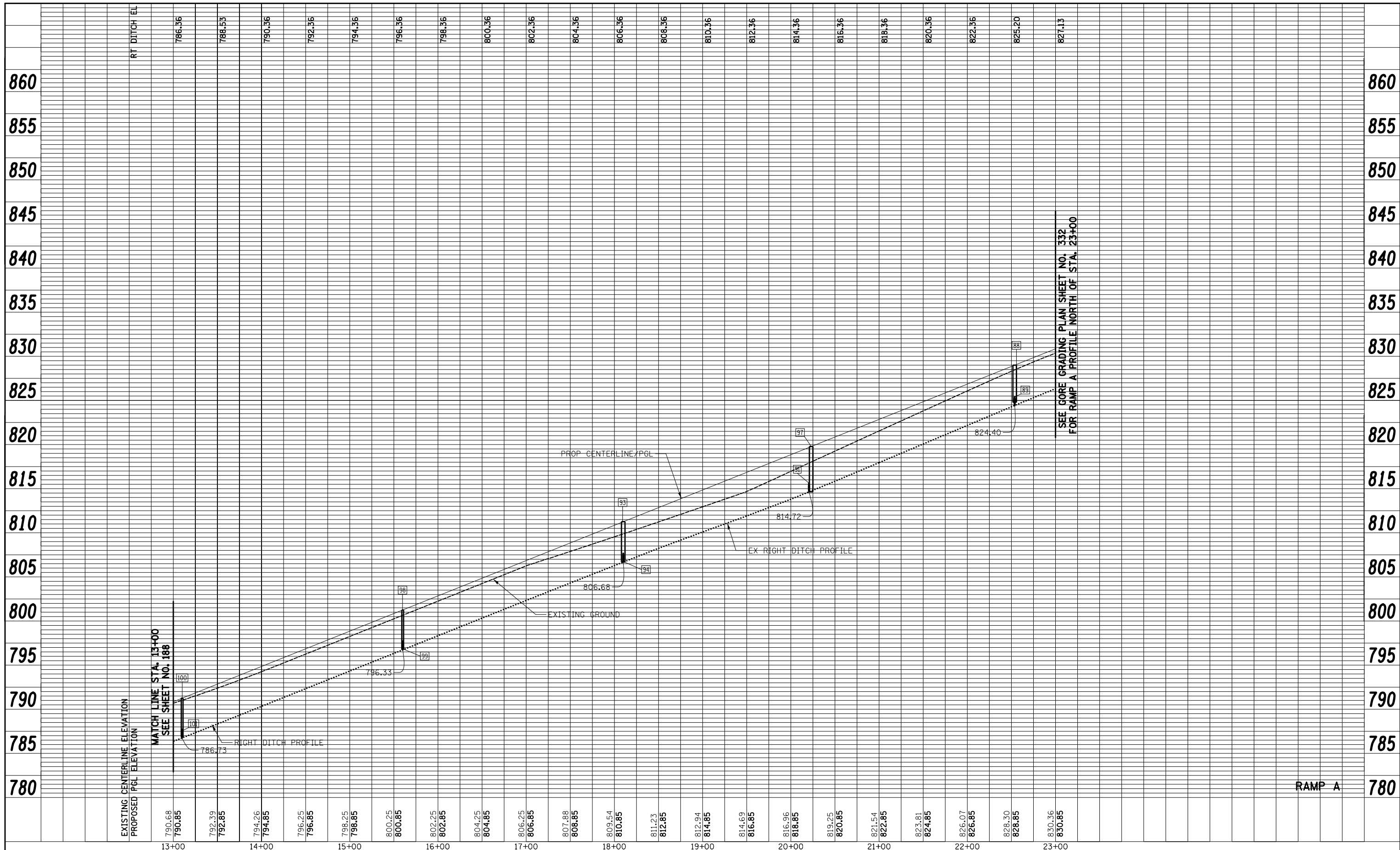
**DRAINAGE AND UTILITIES PROFILE**

SCALE: SHEET NO. 11 OF 19 SHEETS STA. 0+00 TO STA. 13+00

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	202
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
NOTE BOOK NO.	CADD FILE NAME		



FILE NAME = ...\\D160F72-sht-drprf-12.dgn

USER NAME = ctb  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 5/2/2012

DESIGNED - DTE  
 DRAWN - DTE  
 CHECKED - GAB  
 DATE - 5/3/2012

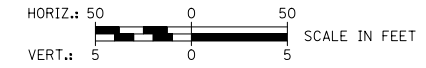
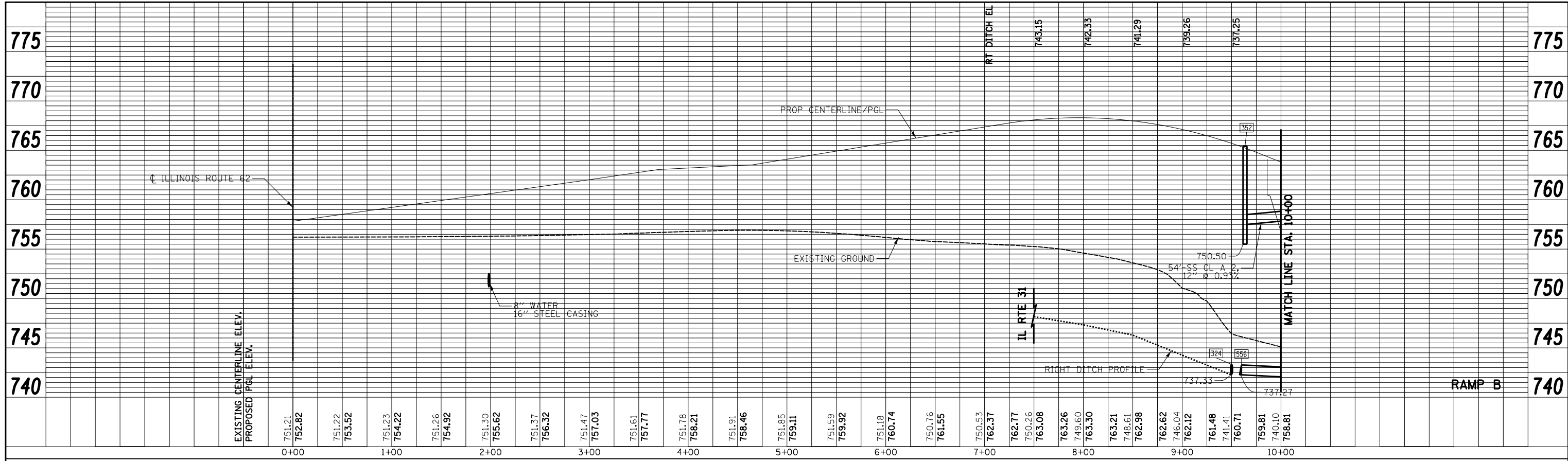
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

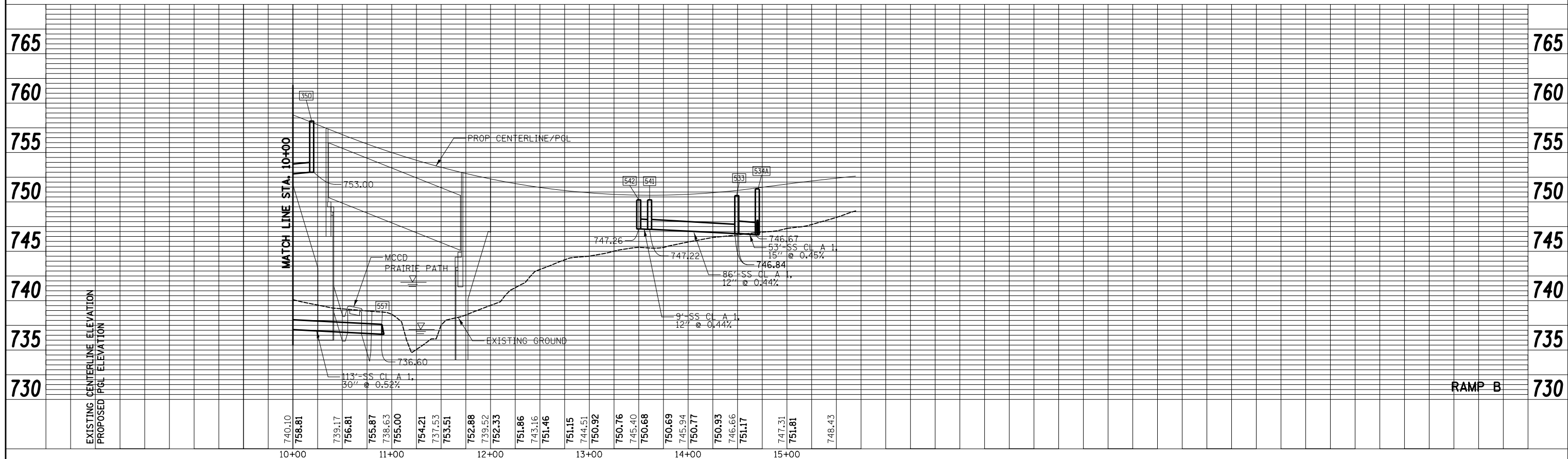
**DRAINAGE AND UTILITIES PROFILE**  
 SCALE: SHEET NO. 12 OF 19 SHEETS STA. 13+00 TO STA. 23+00

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	203
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	NO.		
	GRADES CHECKED		
	STRUCTURE		
	NOTATIONS		
	CHKD		



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



FILE NAME = ...\\D160F72-sht-drprf-13.dgn

USER NAME = ctb	DESIGNED - DTE	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - DTE	REVISED -
PLOT DATE = 5/2/2012	CHECKED - GAB	REVISED -
	DATE - 5/3/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE AND UTILITIES PROFILE**

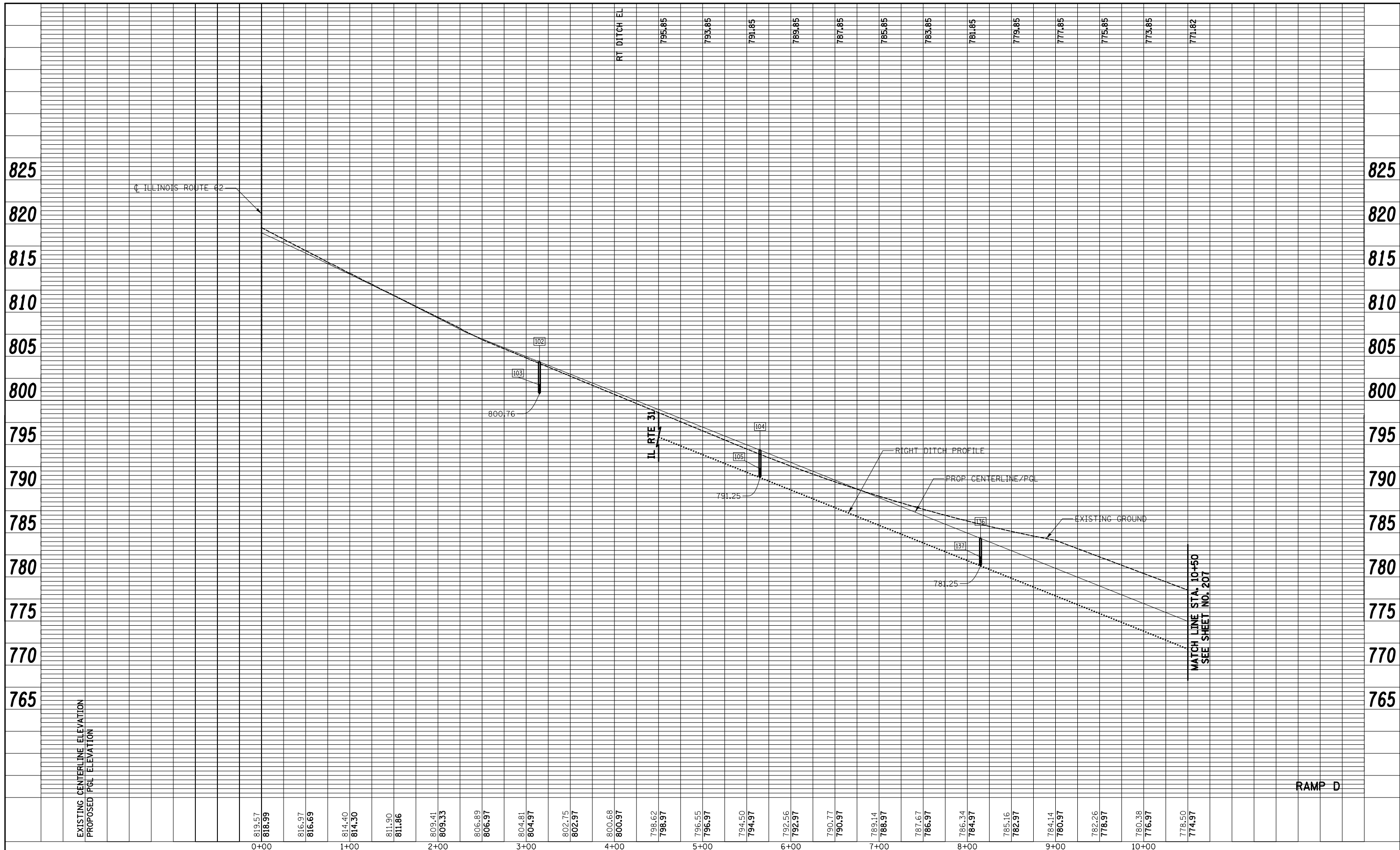
SCALE: SHEET NO. 13 OF 19 SHEETS STA. 0+00 TO STA. 15+37.26

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	204
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	ALIGNMENT CHECKED		
	STRUCTURE NOTED		
	CADD FILE NAME		

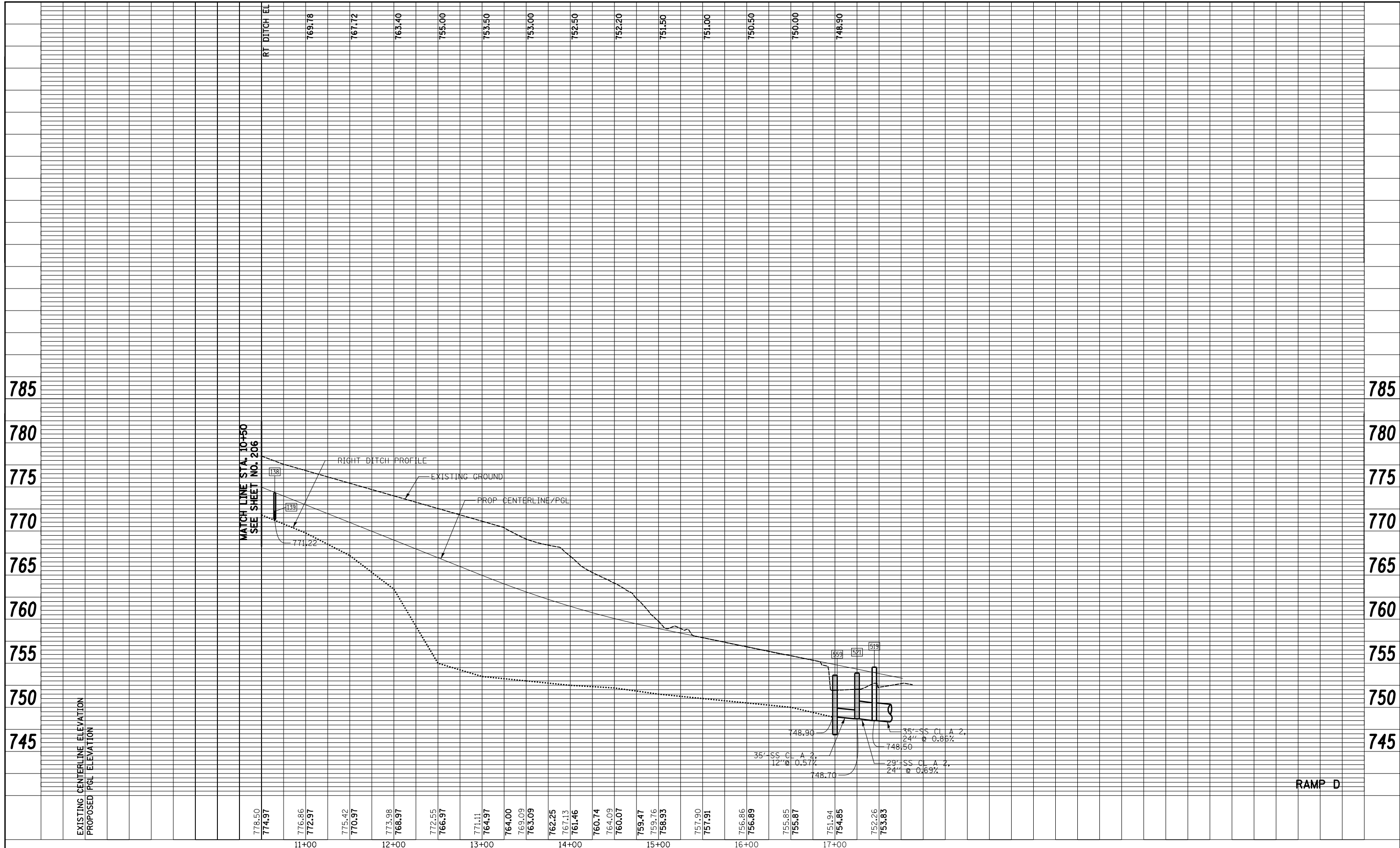
PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTED		
	CADD FILE NAME		



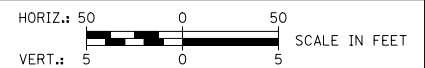
FILE NAME = ...\\D160F72-sht-dprf-15.dgn	USER NAME = ctb	DESIGNED - DTE	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DRAINAGE AND UTILITIES PROFILE</b>		<table border="1"> <tr> <th>O.R. RTE.</th> <th>SECTION</th> <th>COUNTY</th> <th>TOTAL SHEETS</th> <th>SHEET NO.</th> </tr> <tr> <td>0003</td> <td>18A-2</td> <td>MCHENRY</td> <td>825</td> <td>206</td> </tr> <tr> <td colspan="5" style="text-align: center;">CONTRACT NO. 60F72</td> </tr> <tr> <td colspan="5">FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</td> </tr> </table>	O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	0003	18A-2	MCHENRY	825	206	CONTRACT NO. 60F72					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS		SHEET NO.																						
0003	18A-2	MCHENRY	825		206																						
CONTRACT NO. 60F72																											
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT																											
	PLOT SCALE = 100.0000' / in.	CHECKED - GAB	REVISED -	SCALE:	SHEET NO. 15 OF 19 SHEETS	STA. 0+00 TO STA. 10+50																					
	PLOT DATE = 5/2/2012	DATE - 5/3/2012	REVISED -	<table border="1"> <tr> <td>HORIZ.: 50</td> <td>0</td> <td>50</td> </tr> <tr> <td>VERT.: 5</td> <td>0</td> <td>5</td> </tr> </table> SCALE IN FEET			HORIZ.: 50	0	50	VERT.: 5	0	5															
HORIZ.: 50	0	50																									
VERT.: 5	0	5																									

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	ALIGNMENT CHECKED		
	AS BUILT		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		



RAMP D



FILE NAME = ...\\D160F72-sht-dprf-16.dgn

USER NAME = ctb  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 5/2/2012

DESIGNED - DTE	REVISED -
DRAWN - DTE	REVISED -
CHECKED - GAB	REVISED -
DATE - 5/3/2012	REVISED -

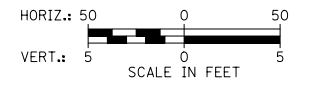
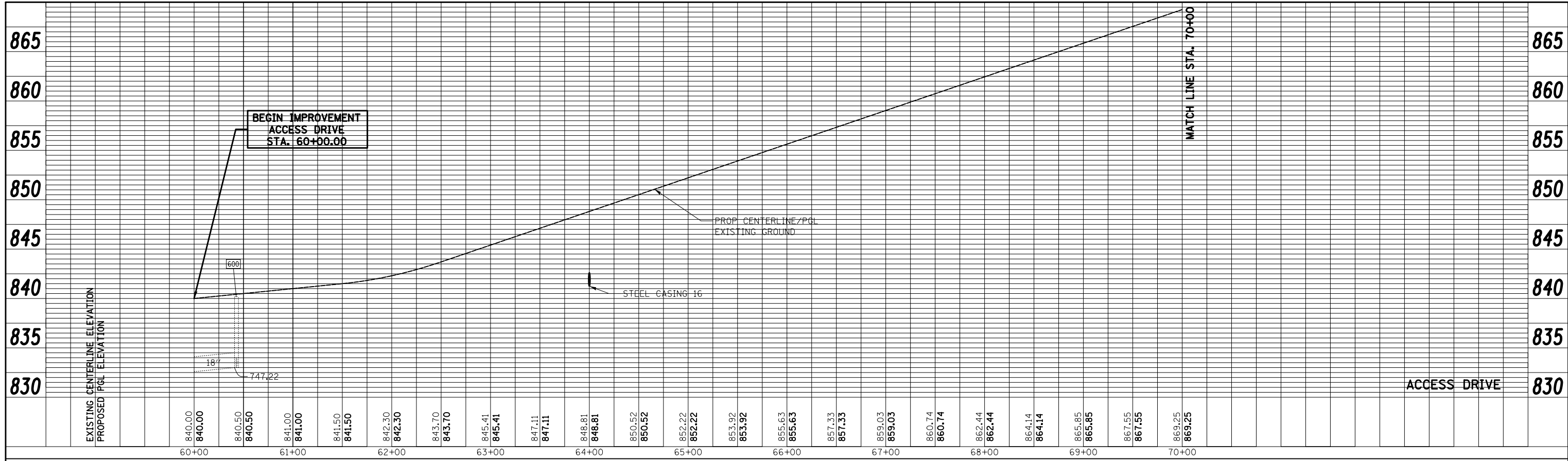
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DRAINAGE AND UTILITIES PROFILE**

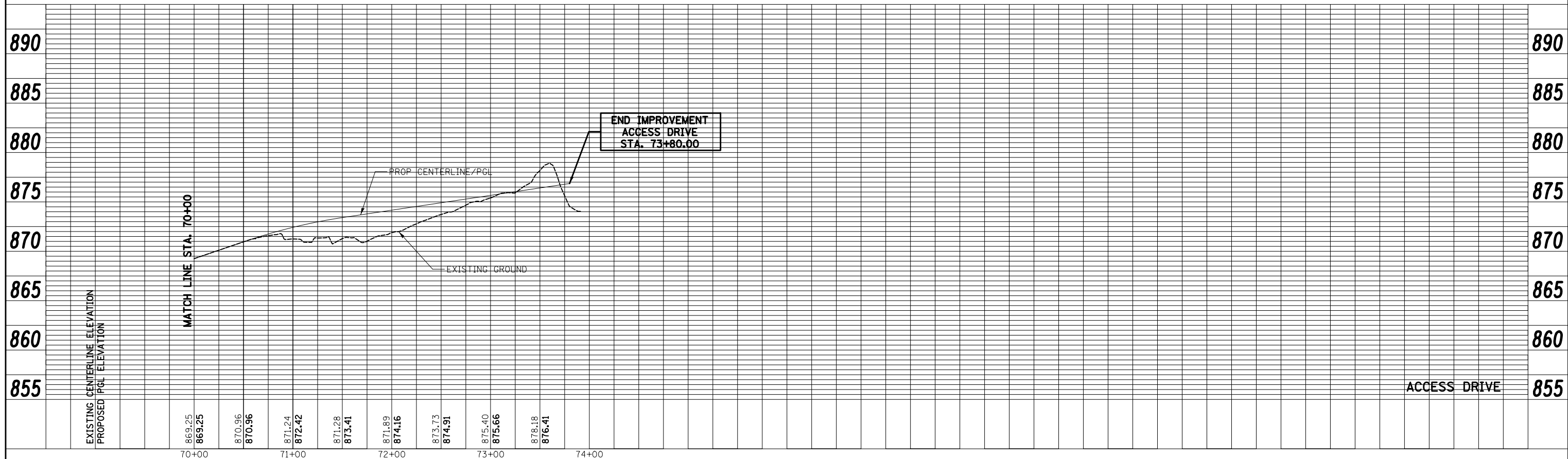
SCALE: SHEET NO. 16 OF 19 SHEETS STA. 10+50 TO STA. 17+76.96

O.R. RTE. 0003	SECTION 18A-2	COUNTY MCHENRY	TOTAL SHEETS 825	SHEET NO. 207
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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



PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	NO.		
	STRUCTURE		
	NOTATIONS		



FILE NAME = ...\\D160F72-sht-drprf-17.dgn

USER NAME = ctb	DESIGNED - DTE	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - AKW	REVISED -
PLOT DATE = 5/2/2012	CHECKED - GAB	REVISED -
	DATE - 5/3/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

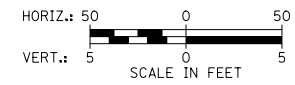
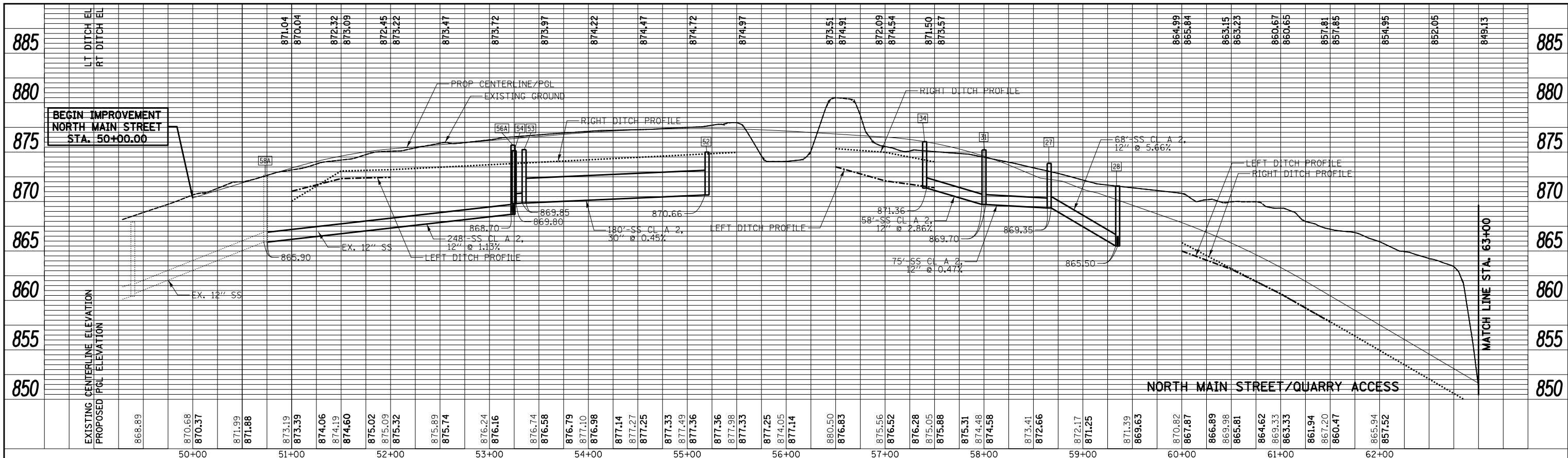
**DRAINAGE AND UTILITIES PROFILE**

SCALE: SHEET NO. 17 OF 19 SHEETS STA. TO STA.

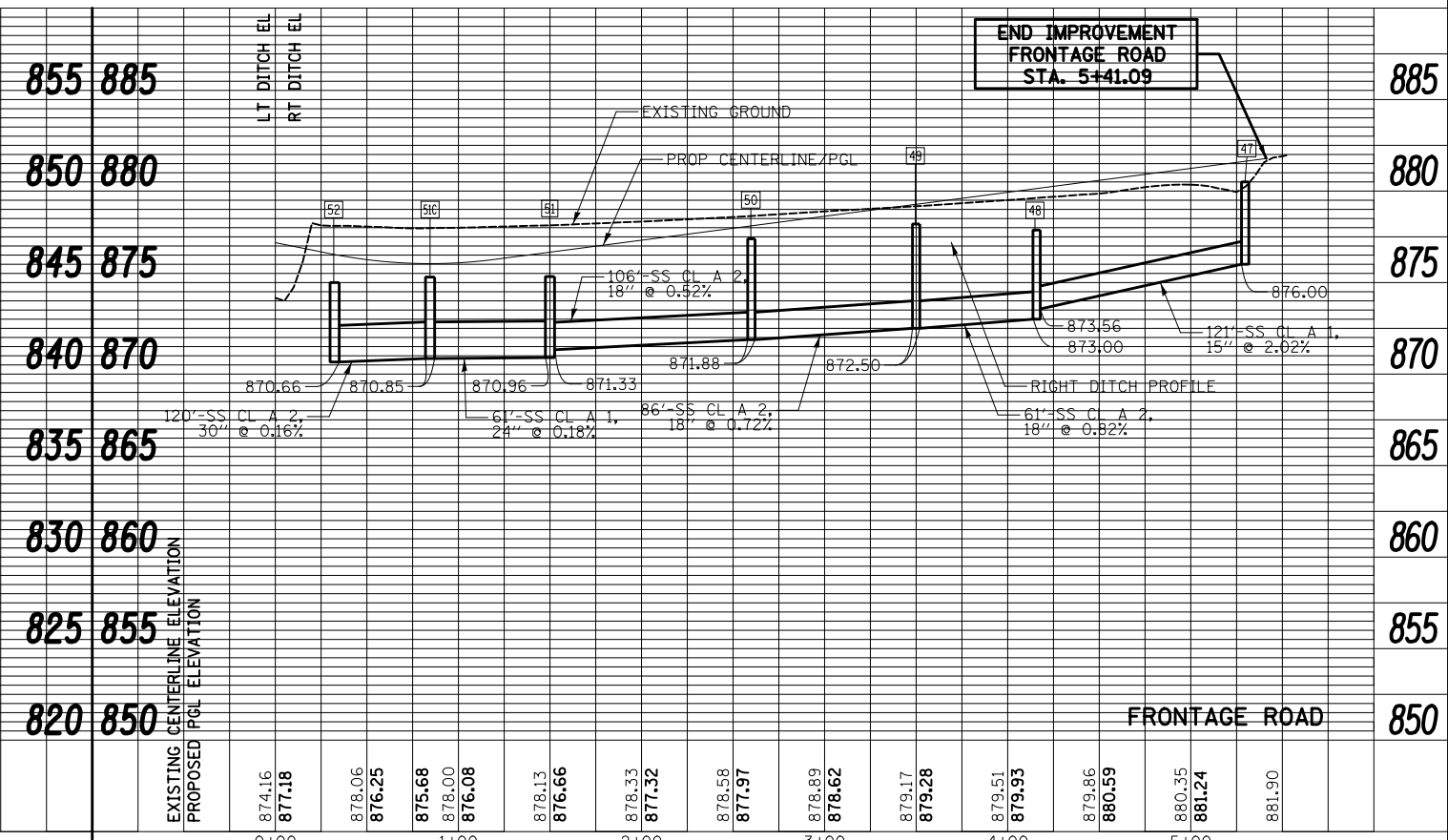
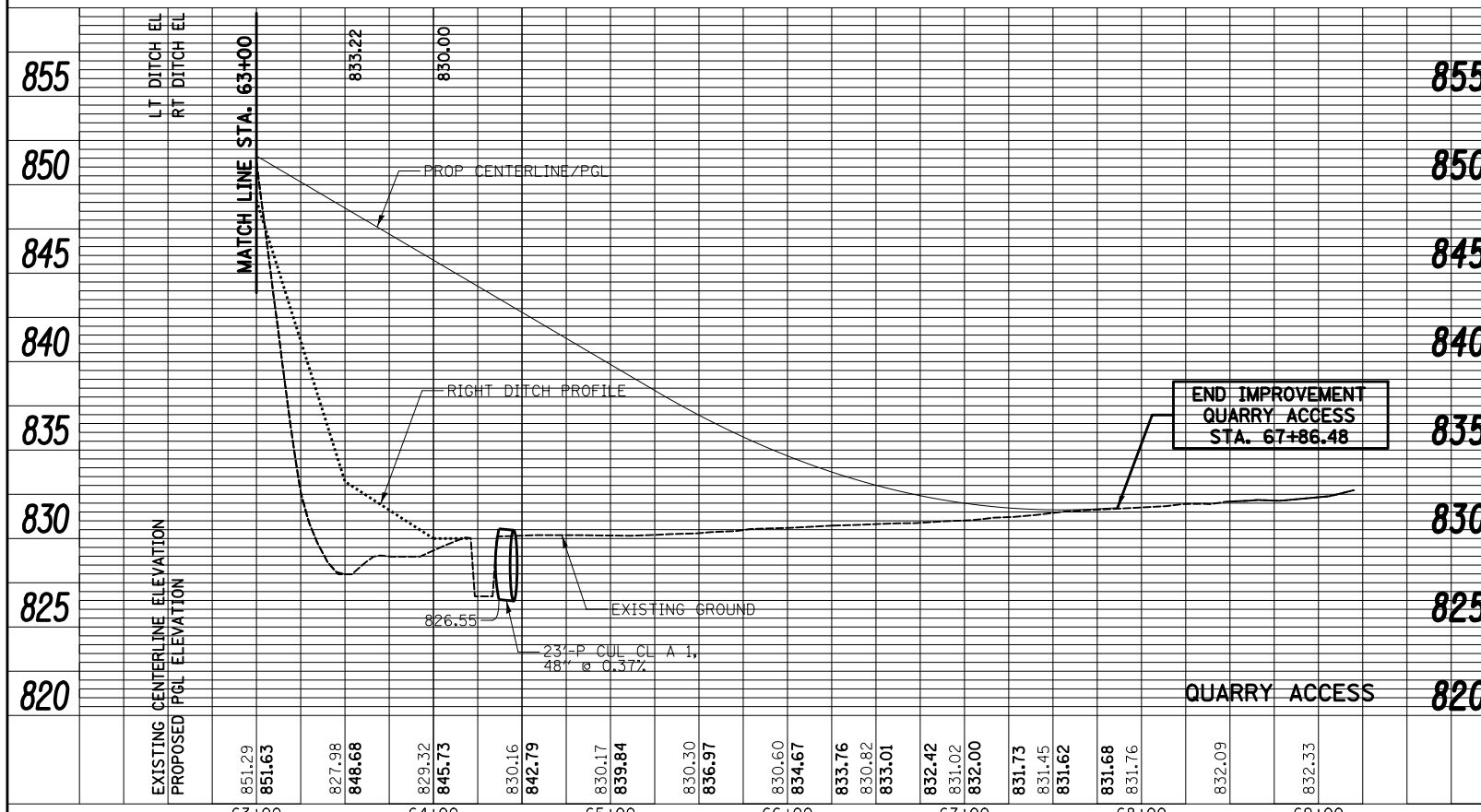
O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	208
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	DATE
NOTE BOOK	ALIGNED	
NO.	CHECKED	
	FILE NAME	



PROFILE	SURVEYED	DATE
NOTE BOOK	GRADES CHECKED	
NO.	STRUCTURE NOTATIONS CHECKED	



FILE NAME = ...\\D160F72-sht-drprf-18.dgn

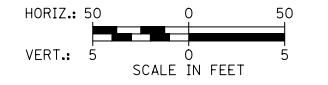
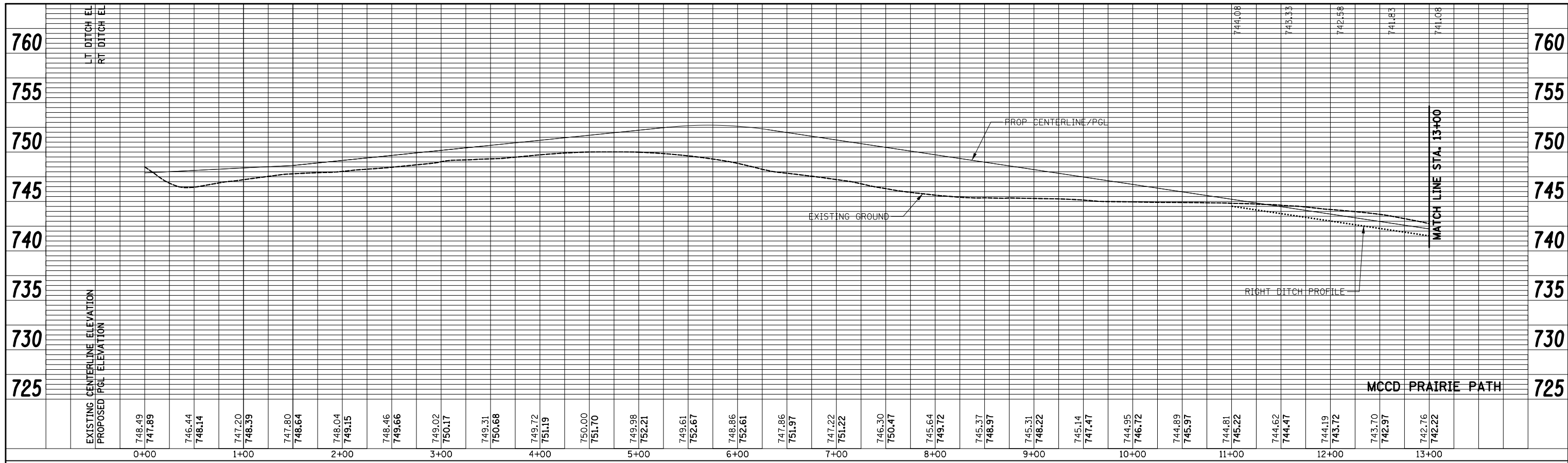
USER NAME = ctb	DESIGNED - DTE	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - ARA	REVISED -
PLOT DATE = 5/2/2012	CHECKED - GAB	REVISED -
	DATE - 5/3/2012	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

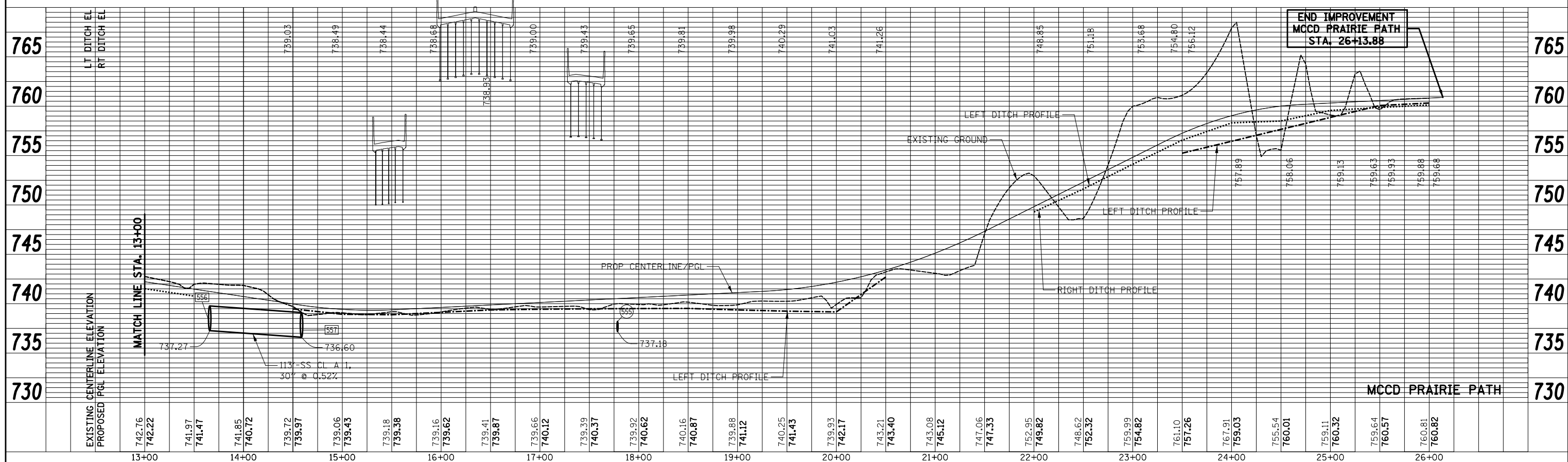
DRAINAGE AND UTILITIES PROFILE	
SCALE:	SHEET NO. 18 OF 19 SHEETS STA. TO STA.

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	209
CONTRACT NO. 60F72			ILLINOIS FED. AID PROJECT	

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



PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
NOTE BOOK NO.	CADD FILE NAME		



FILE NAME = ...\\D160F72-sht-dprpf-19.dgn

USER NAME = ctb  
 DESIGNED - DTE  
 DRAWN - DTE  
 CHECKED - GAB  
 DATE - 5/3/2012

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

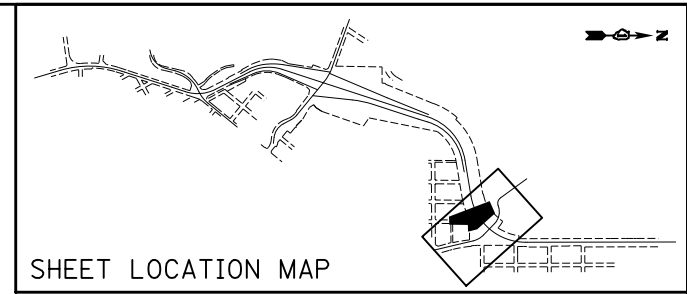
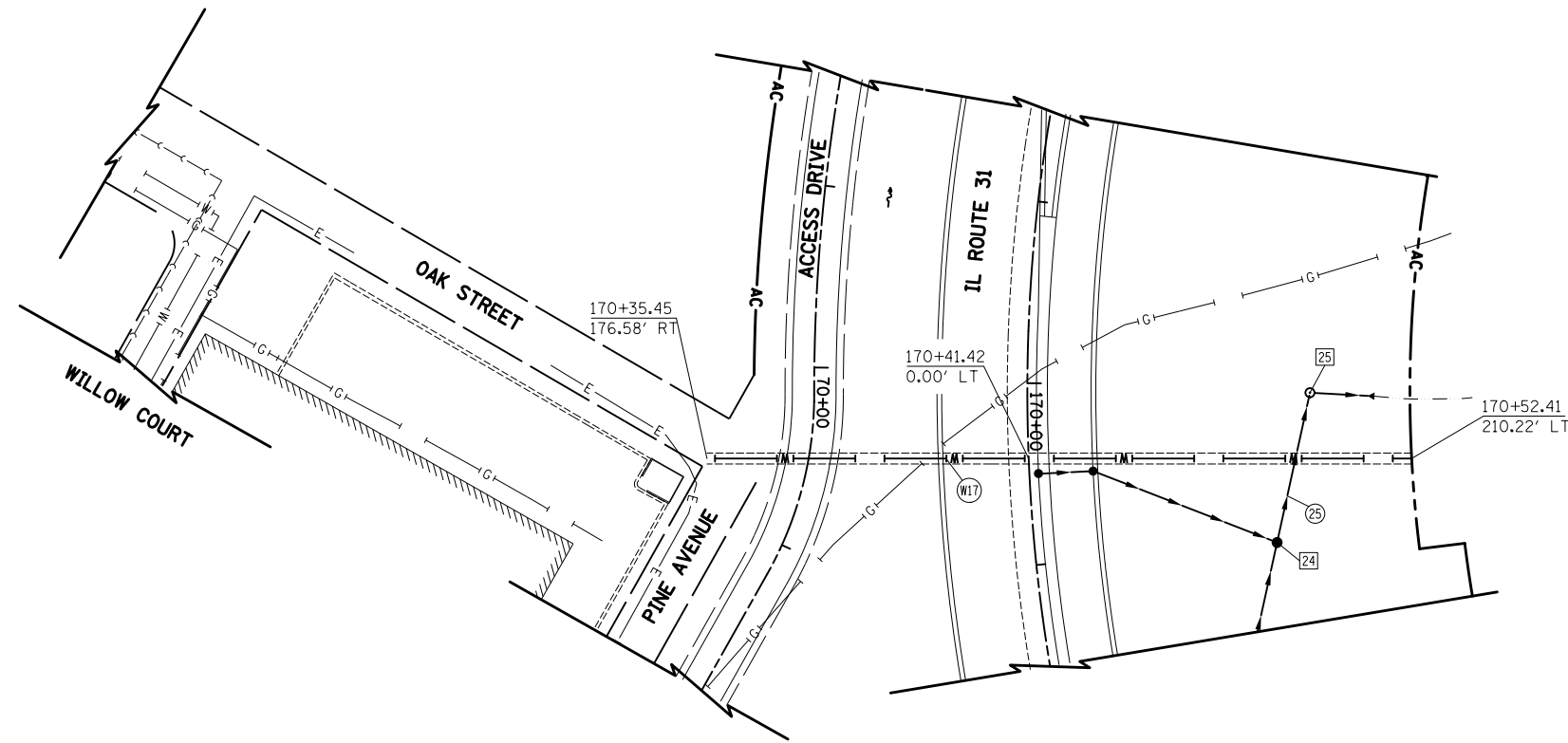
DRAINAGE AND UTILITIES PROFILE  
 SCALE: SHEET NO. 19 OF 19 SHEETS STA. 0+00 TO STA. 26+13.88

D.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	210
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



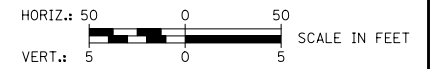
PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	CADD FILE NAME		
	NO.		

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



NOTES:

- FOR DRAINAGE AND UTILITY CALL OFFS, SEE SHEET NO.185 .



FILE NAME =  
...\\D160F72-sht-wmprof-02.dgn

USER NAME = ctb  
DESIGNED - GAB  
DRAWN - ARA  
CHECKED - GAB  
DATE - 5/3/2012

REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE AND UTILITIES WATER MAIN PROFILES**

SCALE: 1"=50' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	212
				CONTRACT NO. 60F72
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS )  
 COUNTY OF COOK ) S.S.

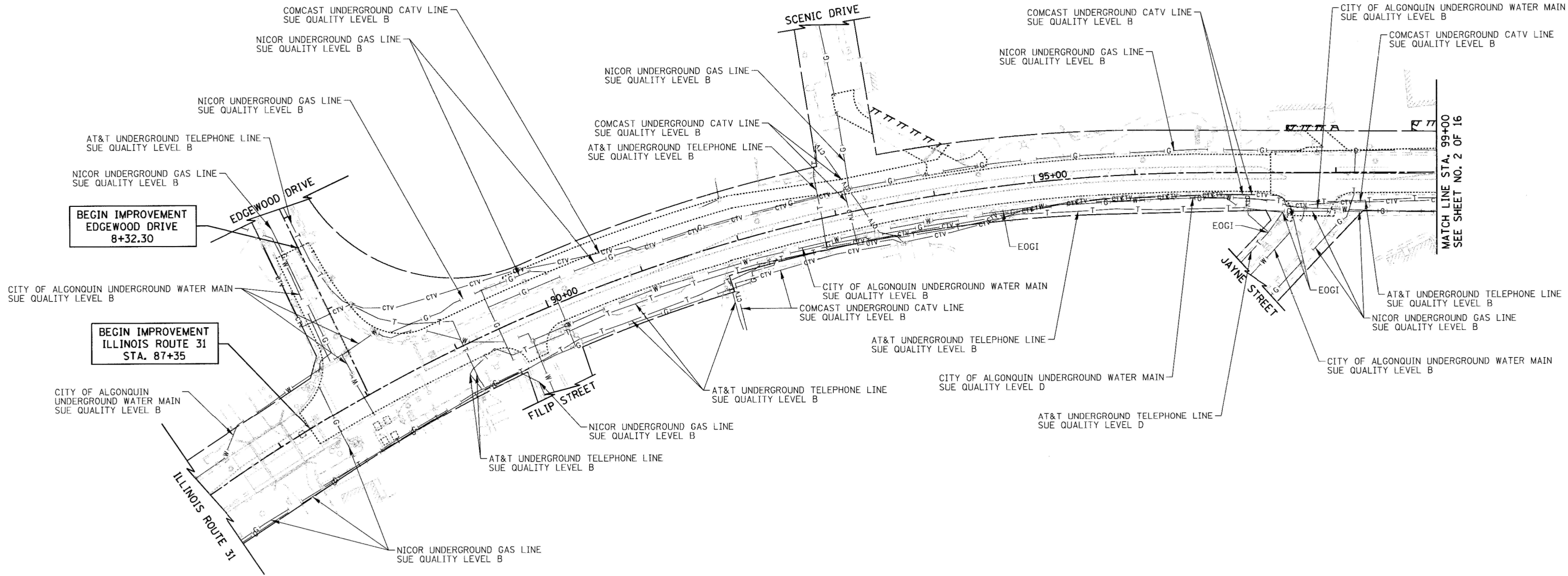
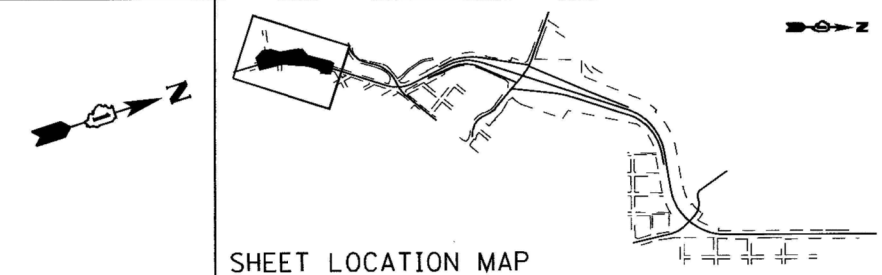
UTILITY(IES) SHOWN HEREON HAVE BEEN INVESTIGATED BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 1ST OF SEPTEMBER AND 26TH DAY OF OCTOBER, 2010.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 28TH DAY OF OCTOBER, 2010. CHICAGO, IL.



*Steven M. Rienks*  
 STEVEN M. RIENKS - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-044619  
 MY LICENSE EXPIRES 11/30/2011



BEGIN IMPROVEMENT  
 EDGEWOOD DRIVE  
 8+32.30

BEGIN IMPROVEMENT  
 ILLINOIS ROUTE 31  
 STA. 87+35

MATCH LINE STA. 99+00  
 SEE SHEET NO. 2 OF 16

**LEGEND**

- T — EXISTING UNDERGROUND TELEPHONE
- W — EXISTING UNDERGROUND WATER
- E — EXISTING UNDERGROUND ELECTRIC
- G — EXISTING UNDERGROUND GAS
- CTV — EXISTING UNDERGROUND CABLE TV
- EOGI END OF GEOPHYSICAL LOCATION

**NOTES:**

1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC FEATURES, AND UTILITY LINE WORK (EXCEPTING SUE QUALITY LEVEL B DESIGNATIONS) WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION.

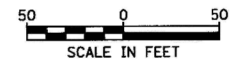
**AMERICAN**  
 SURVEYING & ENGINEERING, P.C.  
 SURVEYORS - ENGINEERS  
 GEODESISTS - MAPPING SCIENTISTS  
 Chicago: 312-271-2000 / Fax 312-271-2002  
 Dixon: 815-288-6231 / Fax 815-288-6277  
 Aurora: 630-897-4105 / Fax 630-897-4121  
 Illinois Professional Design Firm No. 184-003192

FILE NAME = ...\\geo\18180772-sh-t-SUE-01.dgn	USER NAME = #USER#	DESIGNED -	REVISED -
		DRAWN - ALS	REVISED -
		CHECKED - TS	REVISED -
		DATE - 10/19/2010	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUB-SURFACE UTILITY ENGINEERING**  
 SCALE: 1" = 50' SHEET NO. 1 OF 16 SHEETS STA. 87+35 TO STA. 99+00

ILLINOIS ROUTE 31  
 EDGEWOOD DRIVE



F.A.P. RTE. 0003	SECTION 18A-2	COUNTY MCHENRY	TOTAL SHEETS 825	SHEET NO. 213
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS )  
 COUNTY OF COOK ) S.S.

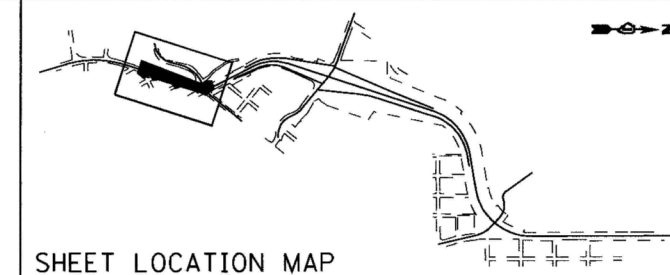
UTILITY(IES) SHOWN HEREON HAVE BEEN INVESTIGATED BY  
 ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY  
 LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN  
 PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 1ST OF SEPTEMBER AND  
 26TH DAY OF OCTOBER, 2010.

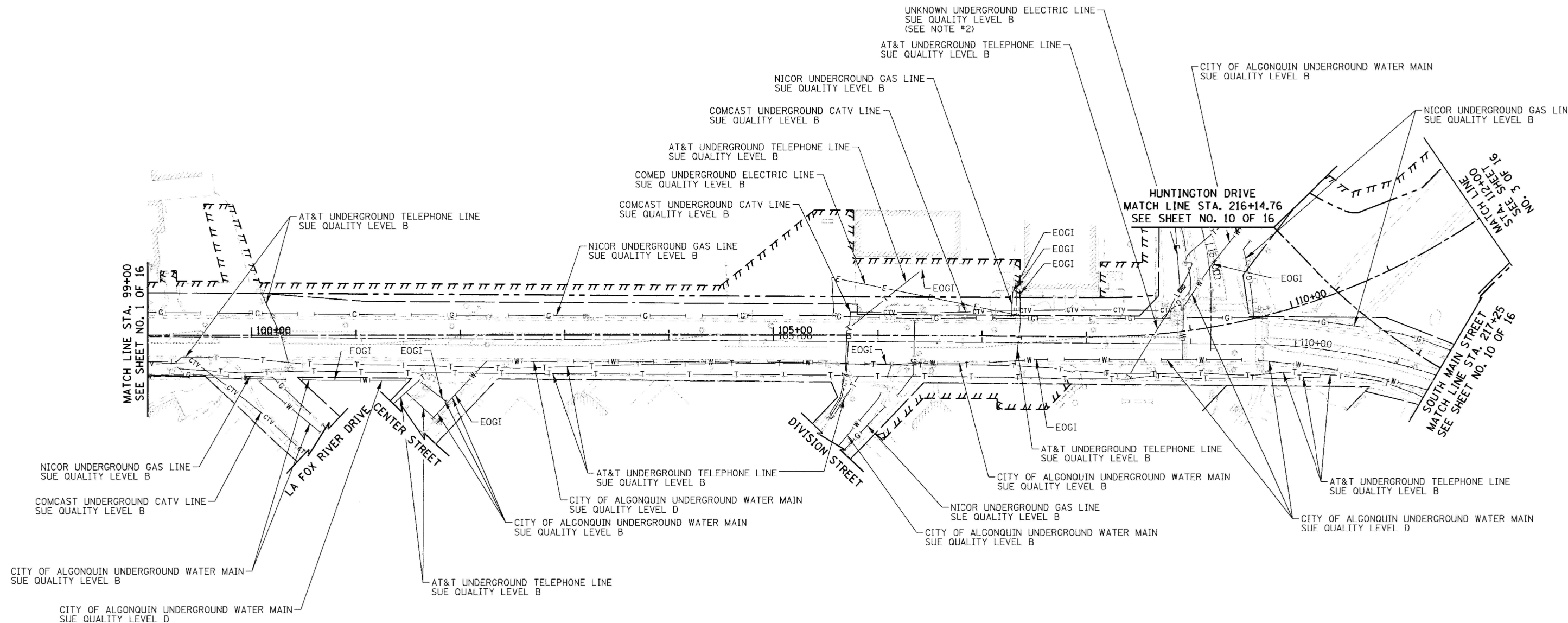
IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL  
 THIS 28TH DAY OF OCTOBER, 2010. CHICAGO, IL.



*Steven M. Rienks*  
 STEVEN M. RIENKS - ILLINOIS PROFESSIONAL  
 ENGINEER NUMBER 62-044619  
 MY LICENSE EXPIRES 11/30/2011



SHEET LOCATION MAP



**LEGEND**

- T— EXISTING UNDERGROUND TELEPHONE
- W— EXISTING UNDERGROUND WATER
- E— EXISTING UNDERGROUND ELECTRIC
- G— EXISTING UNDERGROUND GAS
- CTV— EXISTING UNDERGROUND CABLE TV
- EOGI END OF GEOPHYSICAL LOCATION

**NOTES:**

1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC FEATURES, AND UTILITY LINE WORK (EXCEPTING SUE QUALITY LEVEL B DESIGNATIONS) WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION.
2. THE NOTED UNDERGROUND ELECTRIC LINES WERE DESIGNATED AND SURVEYED, HOWEVER DO NOT APPEAR ON UTILITY ATLAS PROVIDED.

**AMERICAN**  
 SURVEYING & ENGINEERING, P.C.  
 SURVEYORS - ENGINEERS  
 GEODESISTS - MAPPING SCIENTISTS  
 Chicago: 312-277-2000 / Fax 312-277-2002  
 Dixon: 815-288-6231 / Fax 815-288-6277  
 Aurora: 603-897-4105 / Fax 630-897-4121  
 Illinois Professional Design Firm No. 184-003192

FILE NAME =  
 ...\\geo\SI160F72-sht-SUE-02.dgn

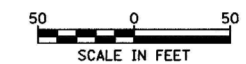
USER NAME = #USER#	DESIGNED -	REVISED -
PLOT SCALE = 50.0000' / IN.	DRAWN - ALS	REVISED -
PLOT DATE = 10/28/2010	CHECKED - TS	REVISED -
	DATE - 10/19/2010	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

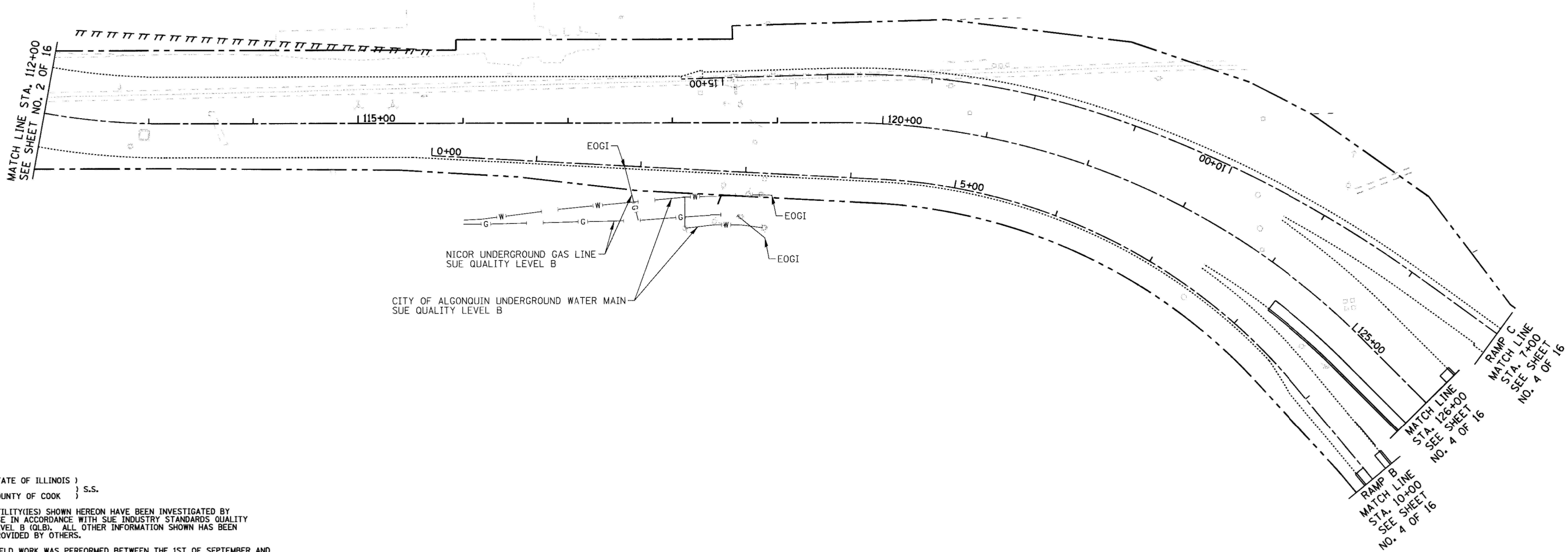
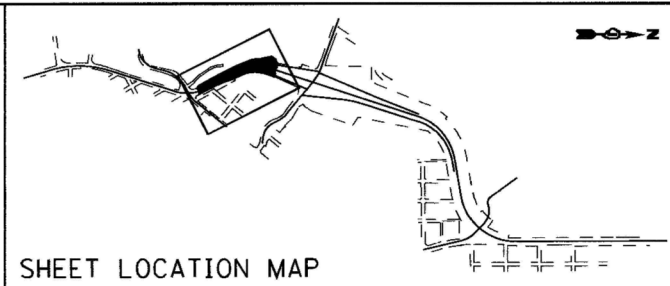
**SUB-SURFACE UTILITY ENGINEERING**

SCALE: 1" = 50' SHEET NO. 2 OF 16 SHEETS STA. 99+00 TO STA. 112+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	214
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



ILLINOIS ROUTE 31



STATE OF ILLINOIS )  
 COUNTY OF COOK ) S.S.

UTILITY(IES) SHOWN HEREON HAVE BEEN INVESTIGATED BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 1ST OF SEPTEMBER AND 26TH DAY OF OCTOBER, 2010.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 28TH DAY OF OCTOBER, 2010. CHICAGO, IL.



*Steven M. Rienks*  
 STEVEN M. RIENKS - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-044619  
 MY LICENSE EXPIRES 11/30/2011

- LEGEND**
- T — EXISTING UNDERGROUND TELEPHONE
  - W — EXISTING UNDERGROUND WATER
  - E — EXISTING UNDERGROUND ELECTRIC
  - G — EXISTING UNDERGROUND GAS
  - CTV — EXISTING UNDERGROUND CABLE TV
  - EOGI END OF GEOPHYSICAL LOCATION

**NOTES:**

1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC FEATURES, AND UTILITY LINE WORK (EXCEPTING SUE QUALITY LEVEL B DESIGNATIONS) WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION.

**AMERICAN**  
 SURVEYING & ENGINEERING, P.C.  
 SURVEYORS - ENGINEERS  
 GEODESISTS - MAPPING SCIENTISTS

Chicago: 312-277-2000 / Fax 312-277-2002  
 Dixon: 815-288-6231 / Fax 815-288-6277  
 Aurora: 603-897-4105 / Fax 630-897-4121  
 Illinois Professional Design Firm No. 184-003192

ILLINOIS ROUTE 31  
 RAMP B  
 RAMP C

SCALE IN FEET

FILE NAME = ...\\geo\5160F72-ah-t-SUE-03.dgn	USER NAME = #USER#	DESIGNED - CTB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUB-SURFACE UTILITY ENGINEERING</b>			F.A.P. RTE. 0003	SECTION 18A-2	COUNTY MCHENRY	TOTAL SHEETS 825	SHEET NO. 215
	PLOT SCALE = 50.0000' / IN.	CHECKED - GAB	REVISED -		SCALE: 1" = 50'	SHEET NO. 3 OF 16 SHEETS	STA. 112+00 TO STA. 126+00	CONTRACT NO. 60F72				
	PLOT DATE = 10/27/2010	DATE -	REVISED -		FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT							

STATE OF ILLINOIS )  
 COUNTY OF COOK ) S.S.

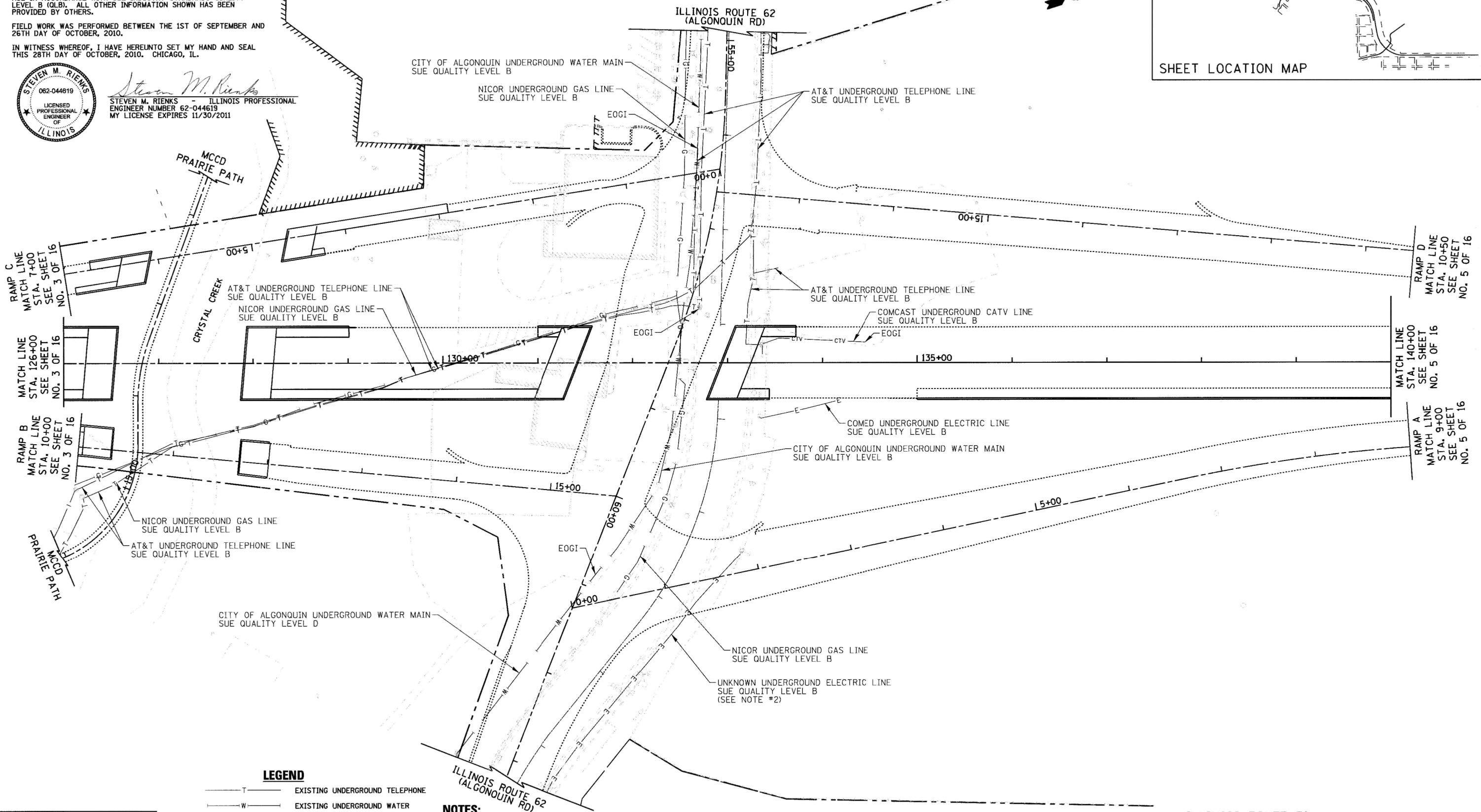
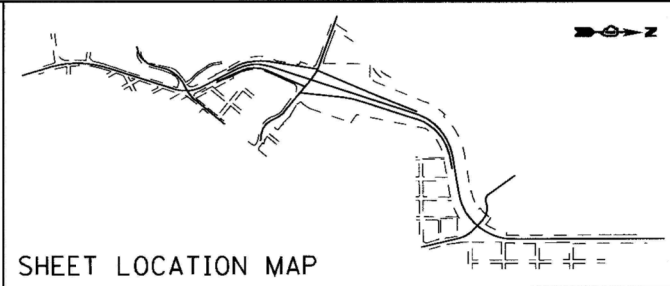
UTILITY(IES) SHOWN HEREON HAVE BEEN INVESTIGATED BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 1ST OF SEPTEMBER AND 26TH DAY OF OCTOBER, 2010.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 28TH DAY OF OCTOBER, 2010. CHICAGO, IL.



*Steven M. Rienks*  
 STEVEN M. RIENKS - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-044619  
 MY LICENSE EXPIRES 11/30/2011



**LEGEND**

- T — EXISTING UNDERGROUND TELEPHONE
- W — EXISTING UNDERGROUND WATER
- E — EXISTING UNDERGROUND ELECTRIC
- G — EXISTING UNDERGROUND GAS
- CTV — EXISTING UNDERGROUND CABLE TV
- EOGI END OF GEOPHYSICAL LOCATION

**NOTES:**

1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC FEATURES, AND UTILITY LINE WORK (EXCEPTING SUE QUALITY LEVEL B DESIGNATIONS) WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION.
2. THE NOTED UNDERGROUND ELECTRIC LINES WERE DESIGNATED AND SURVEYED, HOWEVER DO NOT APPEAR ON UTILITY ATLAS PROVIDED.

**AMERICAN**  
 SURVEYING & ENGINEERING, P.C.  
 SURVEYORS - ENGINEERS  
 GEODESISTS - MAPPING SCIENTISTS  
 Chicago: 312-277-2000 / Fax 312-277-2002  
 Dixon: 815-288-6231 / Fax 815-288-6277  
 Aurora: 603-897-4105 / Fax 630-897-4121  
 Illinois Professional Design Firm No. 184-003192

FILE NAME =  
 ...\\geo\160F72-sh1-SUE-04.dgn

USER NAME = #USER#  
 DESIGNED - CTB  
 DRAWN - ARA  
 CHECKED - GAB  
 DATE -

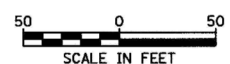
REVISÉ -  
 REVISÉ -  
 REVISÉ -  
 REVISÉ -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUB-SURFACE UTILITY ENGINEERING**

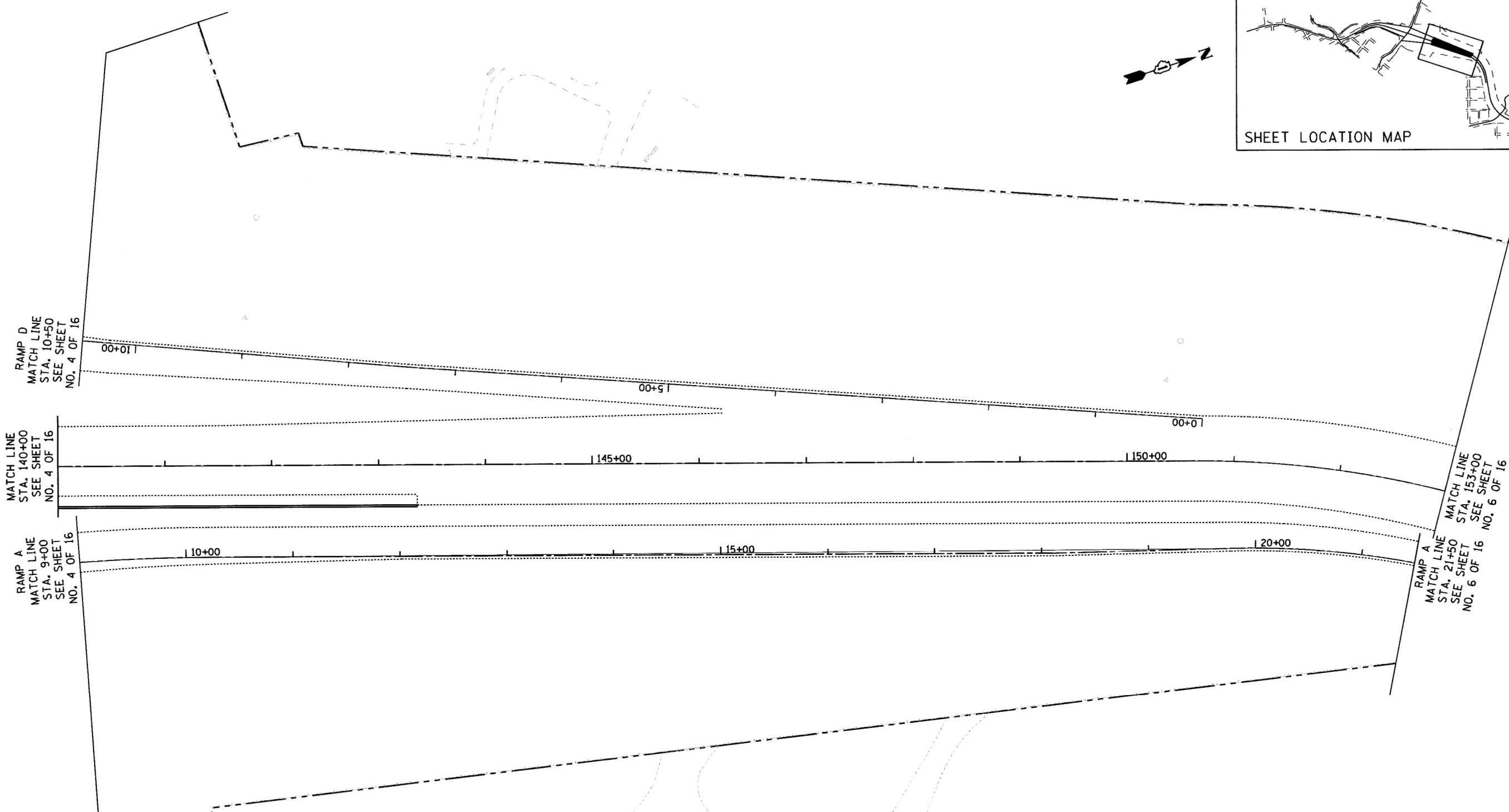
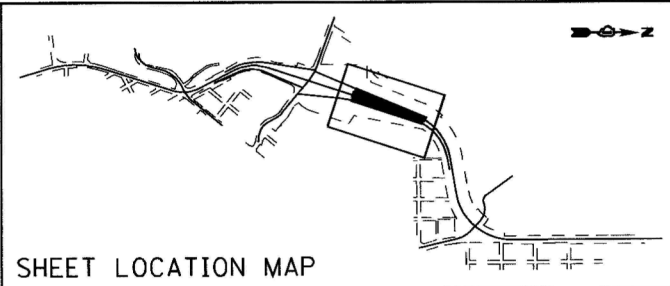
SCALE: 1" = 50' SHEET NO. 4 OF 16 SHEETS STA. 126+00 TO STA. 140+00

ILLINOIS ROUTE 31  
 RAMP A  
 RAMP B  
 RAMP C  
 RAMP D



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	216
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60F72	





STATE OF ILLINOIS )  
 COUNTY OF COOK ) S.S.

UTILITY(IES) SHOWN HEREON HAVE BEEN INVESTIGATED BY  
 ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY  
 LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN  
 PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 1ST OF SEPTEMBER AND  
 26TH DAY OF OCTOBER, 2010.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL  
 THIS 28TH DAY OF OCTOBER, 2010. CHICAGO, IL.



*Steven M. Rienks*  
 STEVEN M. RIENKS - ILLINOIS PROFESSIONAL  
 ENGINEER NUMBER 62-044619  
 MY LICENSE EXPIRES 11/30/2011

**LEGEND**

- T — EXISTING UNDERGROUND TELEPHONE
- W — EXISTING UNDERGROUND WATER
- E — EXISTING UNDERGROUND ELECTRIC
- G — EXISTING UNDERGROUND GAS
- CTV — EXISTING UNDERGROUND CABLE TV
- EOGI END OF GEOPHYSICAL LOCATION

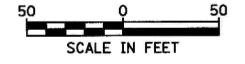
**NOTES:**

1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC  
 FEATURES, AND UTILITY LINE WORK (EXCEPTING SUE QUALITY LEVEL B DESIGNATIONS)  
 WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION.

**AMERICAN**  
 SURVEYING & ENGINEERING, P.C.  
 SURVEYORS - ENGINEERS  
 GEODESISTS - MAPPING SCIENTISTS

Chicago: 312-277-2000 / Fax 312-277-2002  
 Dixon: 815-288-6231 / Fax 815-288-6277  
 Aurora: 603-897-4105 / Fax 630-897-4121  
 Illinois Professional Design Firm No. 184-003192

ILLINOIS ROUTE 31  
 RAMP A  
 RAMP D



FILE NAME = ...\\geo\S16BF72-sht-SUE-05.dgn	USER NAME = #USER#	DESIGNED - CTB	REVISED -
		DRAWN - ARA	REVISED -
		CHECKED - GAB	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SUB-SURFACE UTILITY ENGINEERING</b>	
SCALE: 1" = 50'	SHEET NO. 5 OF 16 SHEETS
STA. 140+00	TO STA. 153+00

F.A.P. RTE. 0003	SECTION 18A-2	COUNTY MCHENRY	TOTAL SHEETS 825	SHEET NO. 217
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS )  
 COUNTY OF COOK ) S.S.

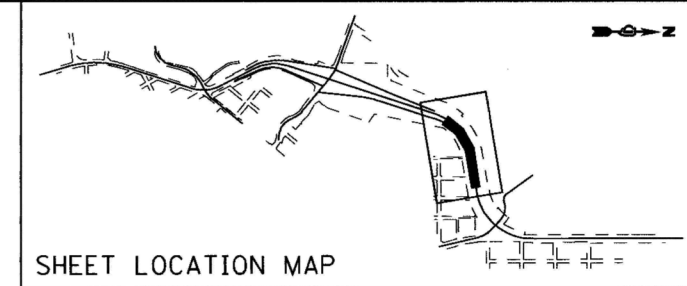
UTILITY(IES) SHOWN HEREON HAVE BEEN INVESTIGATED BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 1ST OF SEPTEMBER AND 26TH DAY OF OCTOBER, 2010.

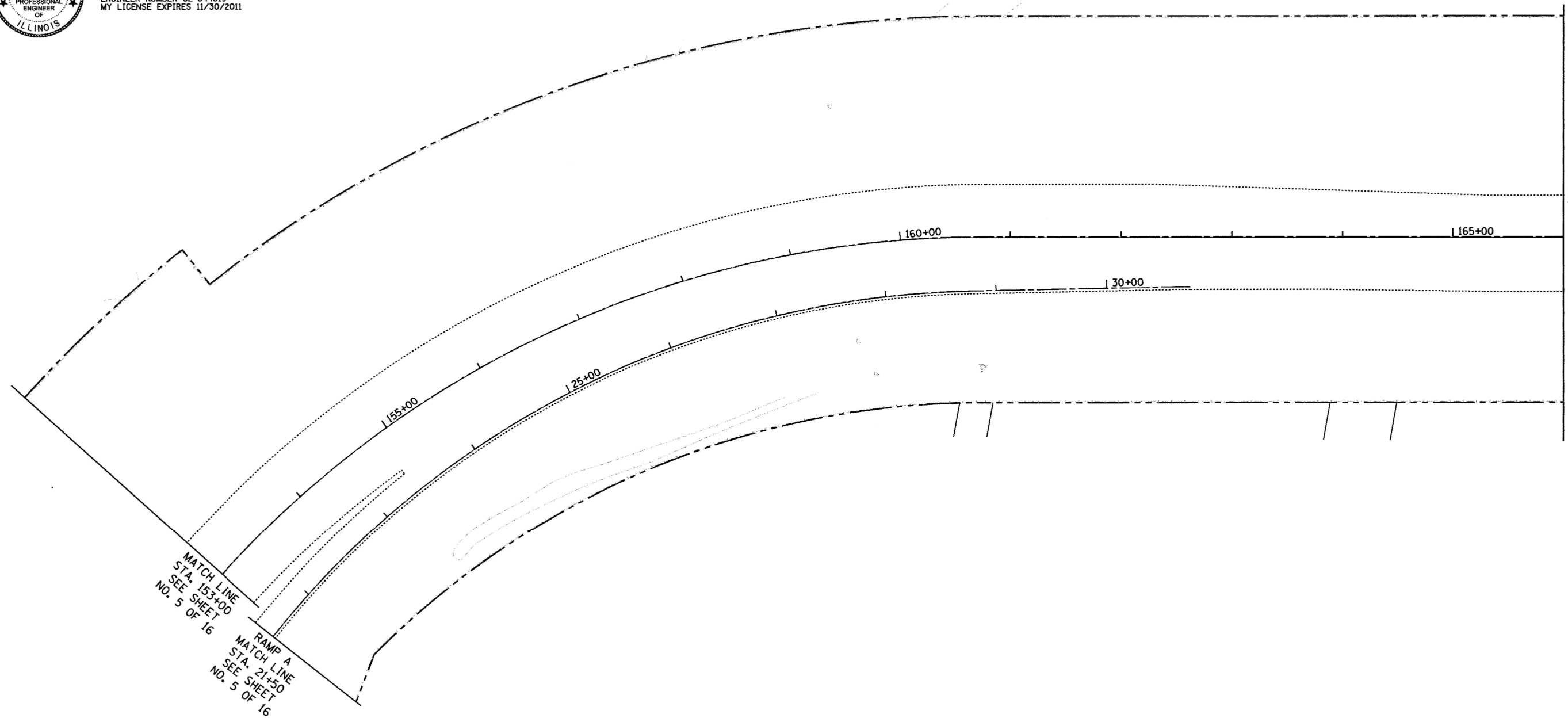
IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 28TH DAY OF OCTOBER, 2010. CHICAGO, IL.



*Steven M. Rienks*  
 STEVEN M. RIENKS ILLINOIS PROFESSIONAL  
 ENGINEER NUMBER 62-044619  
 MY LICENSE EXPIRES 11/30/2011



SHEET LOCATION MAP



MATCH LINE STA. 166+00  
 SEE SHEET NO. 7 OF 16

MATCH LINE STA. 153+00  
 SEE SHEET NO. 5 OF 16  
 RAMP A  
 MATCH LINE STA. 155+00  
 SEE SHEET NO. 5 OF 16

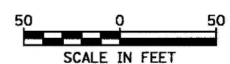
**LEGEND**

- T — EXISTING UNDERGROUND TELEPHONE
- W — EXISTING UNDERGROUND WATER
- E — EXISTING UNDERGROUND ELECTRIC
- G — EXISTING UNDERGROUND GAS
- CTV — EXISTING UNDERGROUND CABLE TV
- EOGI END OF GEOPHYSICAL LOCATION

**NOTES:**

1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC FEATURES, AND UTILITY LINE WORK (EXCEPTING SUE QUALITY LEVEL B DESIGNATIONS) WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION.

**AMERICAN**  
 SURVEYING & ENGINEERING, P.C.  
 SURVEYORS - ENGINEERS  
 GEODESISTS - MAPPING SCIENTISTS  
 Chicago: 312-277-2000 / Fax 312-277-2002  
 Dixon: 815-288-6231 / Fax 815-288-6277  
 Aurora: 630-897-4105 / Fax 630-897-4121  
 Illinois Professional Design Firm No. 184-003192



ILLINOIS ROUTE 31

FILE NAME = ...\\geo\SI160F72-ah-t-SUE-06.dgn	USER NAME = #USER#	DESIGNED - CTB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUB-SURFACE UTILITY ENGINEERING</b>			F.A.P. RTE. 0003	SECTION 18A-2	COUNTY MCHENRY	TOTAL SHEETS 825	SHEET NO. 218
PLOT SCALE = 50.0000' / IN.	CHECKED - GAB	DRAWN - ARA	REVISED -		SCALE: 1" = 50'	SHEET NO. 6 OF 16 SHEETS	STA. 153+00 TO STA. 166+00	CONTRACT NO. 60F72				
PLOT DATE = 10/27/2010	DATE -	REVISIONS	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

STATE OF ILLINOIS )  
 COUNTY OF COOK ) S.S.

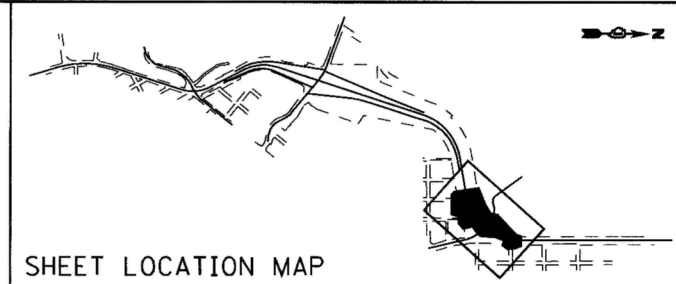
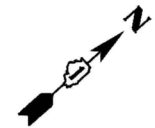
UTILITY(IES) SHOWN HEREON HAVE BEEN INVESTIGATED BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 1ST OF SEPTEMBER AND 26TH DAY OF OCTOBER, 2010.

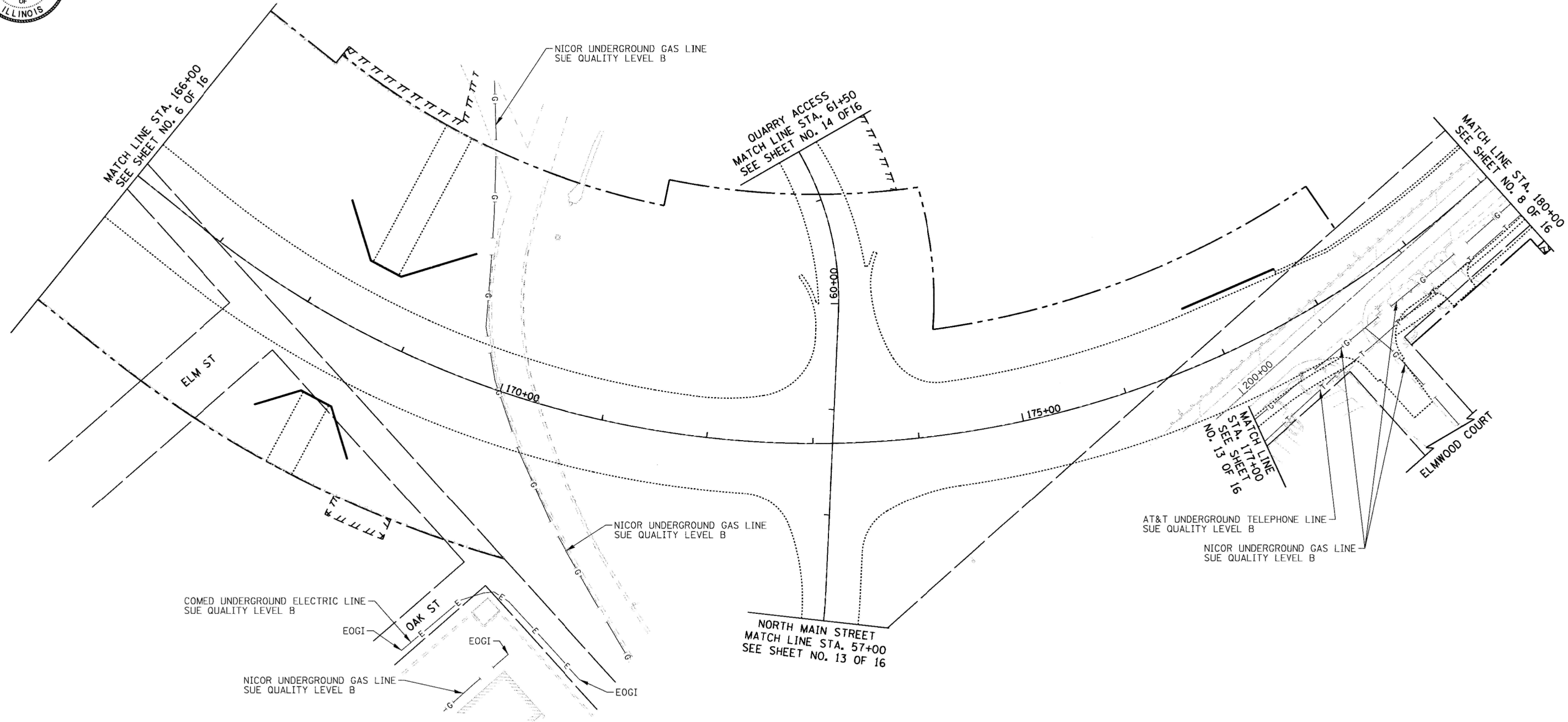
IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 28TH DAY OF OCTOBER, 2010. CHICAGO, IL.



*Steven M. Rienks*  
 STEVEN M. RIENKS - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-044619  
 MY LICENSE EXPIRES 11/30/2011



SHEET LOCATION MAP



**LEGEND**

—T—	EXISTING UNDERGROUND TELEPHONE
—W—	EXISTING UNDERGROUND WATER
—E—	EXISTING UNDERGROUND ELECTRIC
—G—	EXISTING UNDERGROUND GAS
—CTV—	EXISTING UNDERGROUND CABLE TV
EOGI	END OF GEOPHYSICAL LOCATION

**NOTES:**  
 1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC FEATURES, AND UTILITY LINE WORK (EXCEPTING SUE QUALITY LEVEL B DESIGNATIONS) WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION.

**AMERICAN**  
 SURVEYING & ENGINEERING, P.C.  
 SURVEYORS - ENGINEERS  
 GEODESISTS - MAPPING SCIENTISTS  
 Chicago: 312-277-2000 / Fax 312-277-2002  
 Dixon: 815-288-6231 / Fax 815-288-6277  
 Aurora: 603-897-4105 / Fax 630-897-4121  
 Illinois Professional Design Firm No. 184-003192

FILE NAME = ...\\geo\516072-ahs-SUE-07.dgn	USER NAME = *USER*	DESIGNED - CTB	REVISED -
		DRAWN - ARA	REVISED -
		CHECKED - GAB	REVISED -
		DATE -	REVISED -

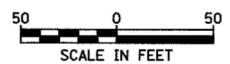
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

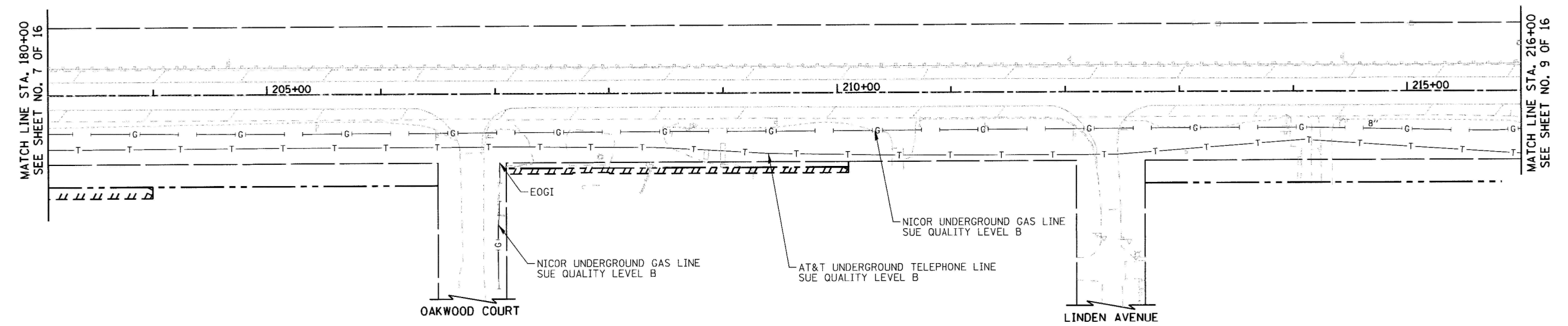
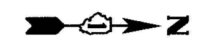
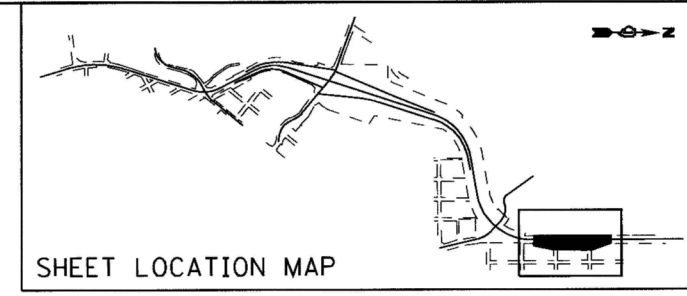
**SUB-SURFACE UTILITY ENGINEERING**

SCALE: 1" = 50'	SHEET NO. 7 OF 16 SHEETS	STA. 166+00 TO STA. 180+00
-----------------	--------------------------	----------------------------

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	219
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				
CONTRACT NO. 60F72				

ILLINOIS ROUTE 31  
 QUARRY ACCESS  
 NORTH MAIN STREET





STATE OF ILLINOIS )  
 COUNTY OF COOK ) S.S.

UTILITY(IES) SHOWN HEREON HAVE BEEN INVESTIGATED BY  
 ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY  
 LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN  
 PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 1ST OF SEPTEMBER AND  
 26TH DAY OF OCTOBER, 2010.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL  
 THIS 28TH DAY OF OCTOBER, 2010. CHICAGO, IL.



*Steven M. Rienks*  
 STEVEN M. RIENKS ILLINOIS PROFESSIONAL  
 ENGINEER NUMBER 62-044619  
 MY LICENSE EXPIRES 11/30/2011

**LEGEND**

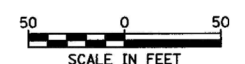
- T — EXISTING UNDERGROUND TELEPHONE
- W — EXISTING UNDERGROUND WATER
- E — EXISTING UNDERGROUND ELECTRIC
- G — EXISTING UNDERGROUND GAS
- CTV — EXISTING UNDERGROUND CABLE TV
- EOGI END OF GEOPHYSICAL LOCATION

**NOTES:**

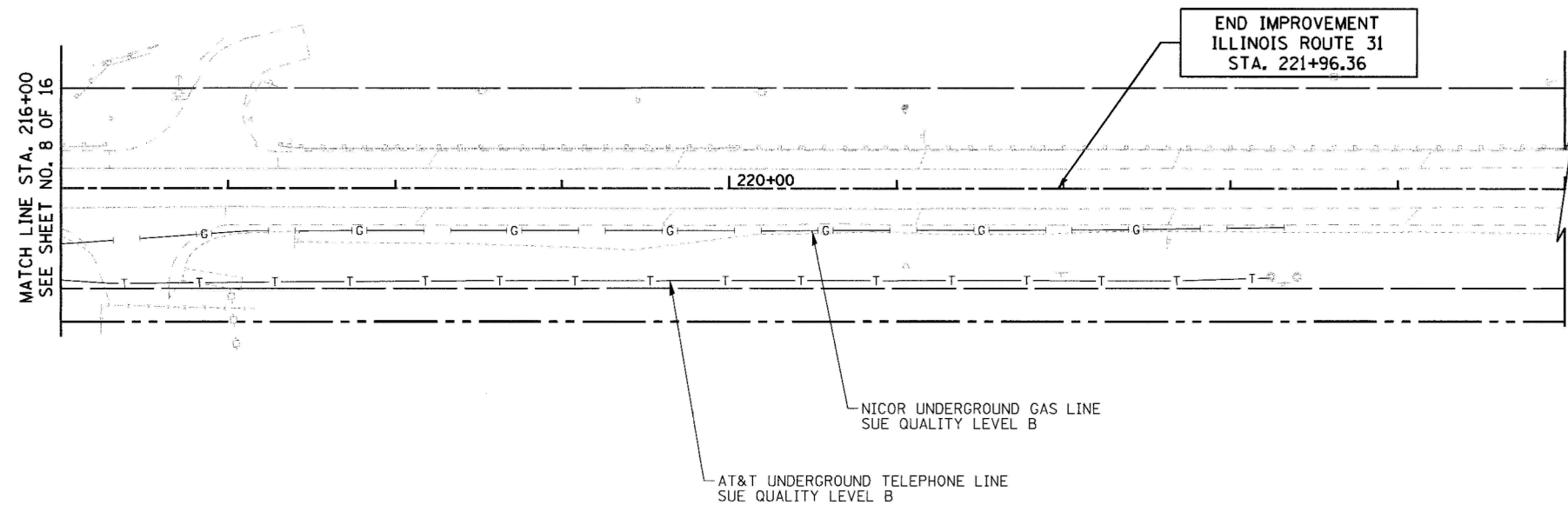
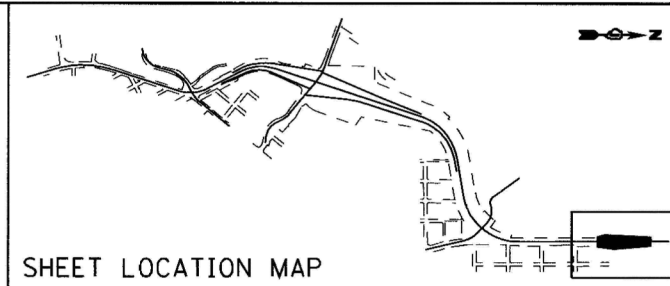
1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC  
 FEATURES, AND UTILITY LINE WORK (EXCEPTING SUE QUALITY LEVEL B DESIGNATIONS)  
 WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION.

**AMERICAN**  
 SURVEYING & ENGINEERING, P.C.  
 SURVEYORS - ENGINEERS  
 GEODESISTS - MAPPING SCIENTISTS

Chicago: 312-277-2000 / Fax 312-277-2002  
 Dixon: 815-288-6231 / Fax 815-288-6277  
 Aurora: 603-897-4105 / Fax 630-897-4121  
 Illinois Professional Design Firm No. 184-003192



FILE NAME = ...\\geo\168\F72-sht-SUE-08.dgn	USER NAME = #USER#	DESIGNED - CTB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUB-SURFACE UTILITY ENGINEERING</b>	F.A.P. RTE. 0003	SECTION 18A-2	COUNTY MCHENRY	TOTAL SHEETS 825	SHEET NO. 220	
PLOT SCALE = 50.0000' / IN.	CHECKED - GAB	REVISED -	SCALE: 1" = 50'			SHEET NO. 8 OF 16 SHEETS	STA. 180+00 TO STA. 216+00	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			
PLOT DATE = 10/27/2010	DATE -	REVISED -									
CONTRACT NO. 60F72											



STATE OF ILLINOIS )  
 COUNTY OF COOK } S.S.

UTILITY(IES) SHOWN HEREON HAVE BEEN INVESTIGATED BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 1ST OF SEPTEMBER AND 26TH DAY OF OCTOBER, 2010.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 28TH DAY OF OCTOBER, 2010. CHICAGO, IL.



*Steven M. Rienks*  
 STEVEN M. RIENKS - ILLINOIS PROFESSIONAL  
 ENGINEER NUMBER 62-044619  
 MY LICENSE EXPIRES 11/30/2011

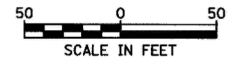
**LEGEND**

- T — EXISTING UNDERGROUND TELEPHONE
- W — EXISTING UNDERGROUND WATER
- E — EXISTING UNDERGROUND ELECTRIC
- G — EXISTING UNDERGROUND GAS
- CTV — EXISTING UNDERGROUND CABLE TV
- EOGI END OF GEOPHYSICAL LOCATION

**NOTES:**

1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC FEATURES, AND UTILITY LINE WORK (EXCEPTING SUE QUALITY LEVEL B DESIGNATIONS) WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION.

**AMERICAN**  
 SURVEYING & ENGINEERING, P.C.  
 SURVEYORS - ENGINEERS  
 GEODESISTS - MAPPING SCIENTISTS  
 Chicago: 312-277-2000 / Fax 312-277-2002  
 Dixon: 815-288-6231 / Fax 815-288-6277  
 Aurora: 603-897-4105 / Fax 630-897-4121  
 Illinois Professional Design Firm No. 184-003192



ILLINOIS ROUTE 31

FILE NAME = ...\\geo\SI180\F72-sht-SUE-09.dgn	USER NAME = #USER#	DESIGNED - CTB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUB-SURFACE UTILITY ENGINEERING</b>	F.A.P. RTE. 0003	SECTION 18A-2	COUNTY MCHENRY	TOTAL SHEETS 825	SHEET NO. 221		
PLT SCALE = 50.0000' / IN.	CHECKED - GAB	REVISED -	SCALE: 1" = 50'			SHEET NO. 9 OF 16 SHEETS	STA. 216+00 TO STA. 221+96.36	CONTRACT NO. 60F72				
PLT DATE = 10/27/2010	DATE -	REVISED -	FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT									

STATE OF ILLINOIS )  
 COUNTY OF COOK ) S.S.

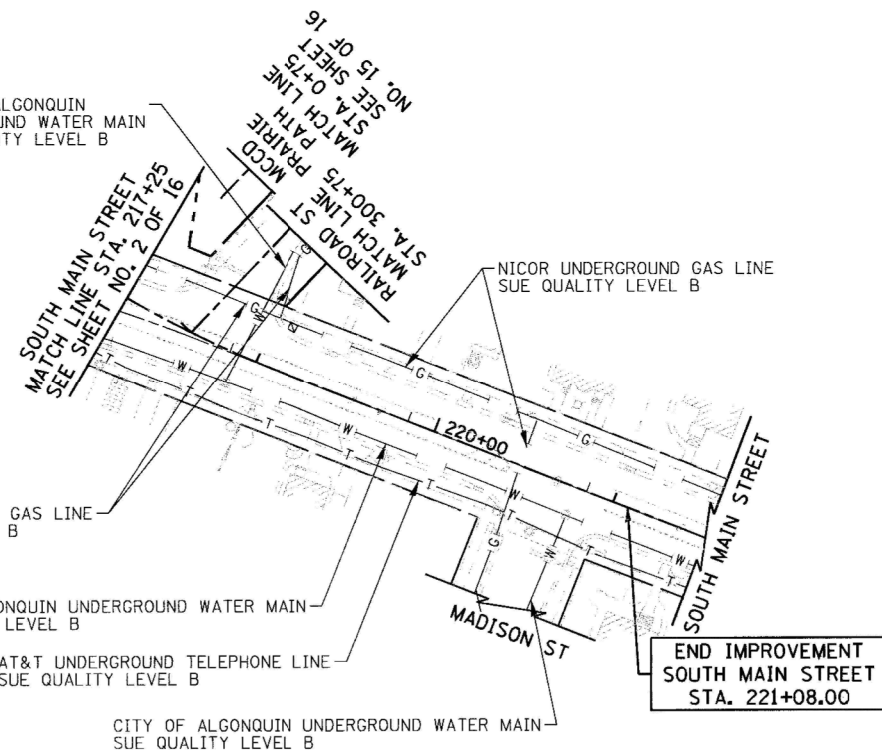
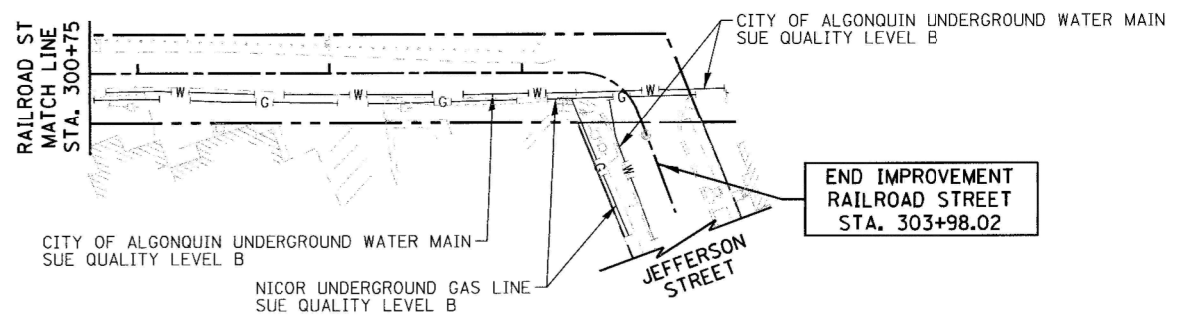
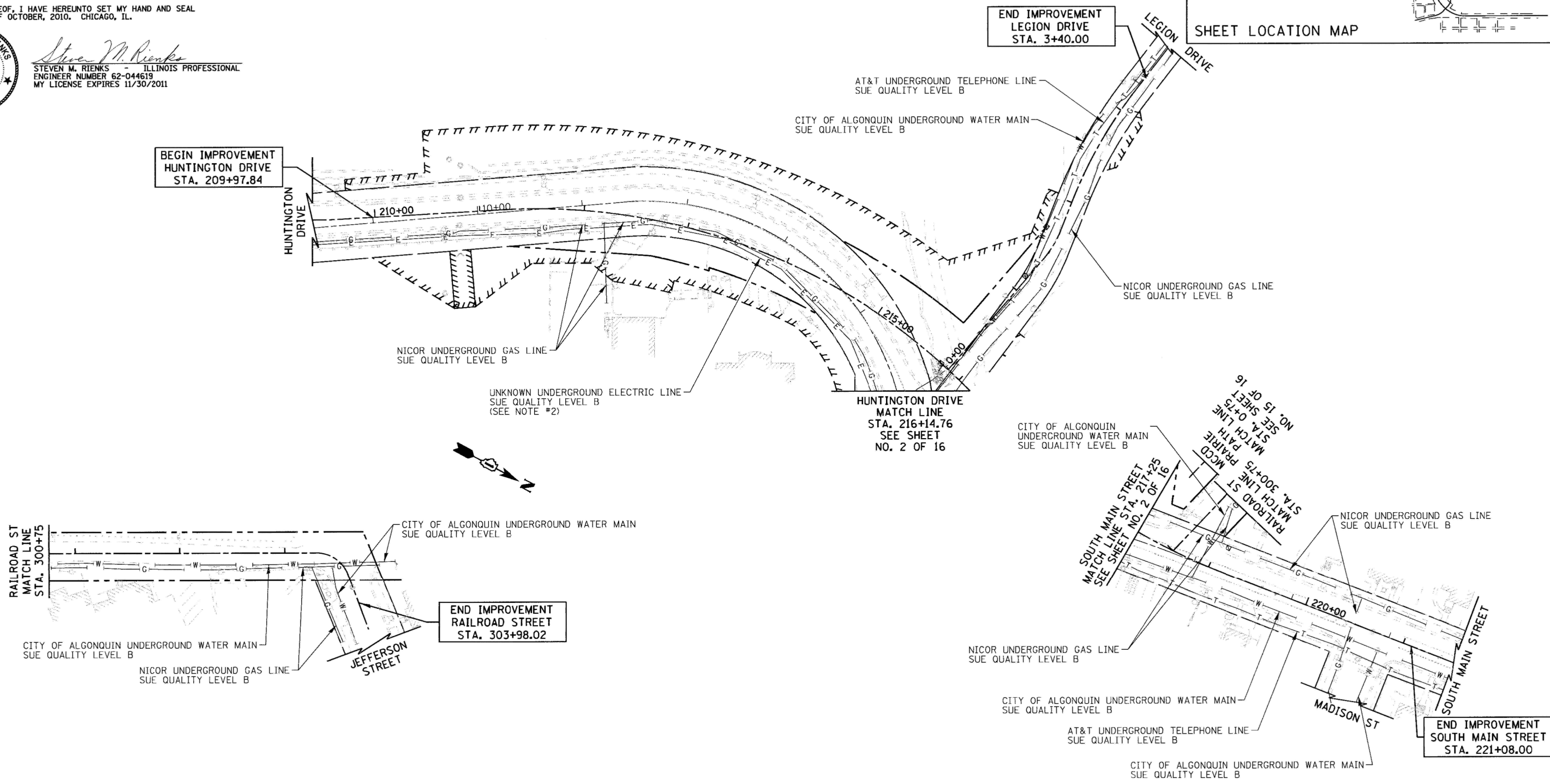
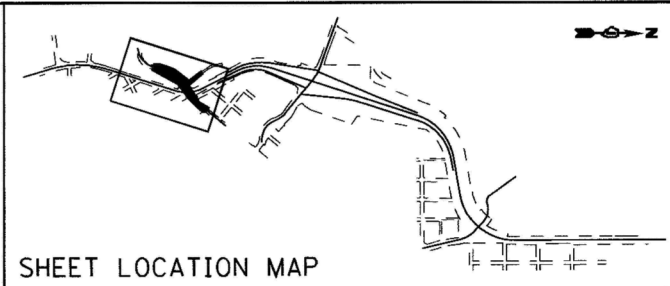
UTILITY(IES) SHOWN HEREON HAVE BEEN INVESTIGATED BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 1ST OF SEPTEMBER AND 26TH DAY OF OCTOBER, 2010.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 28TH DAY OF OCTOBER, 2010. CHICAGO, IL.



*Steven M. Rienks*  
 STEVEN M. RIENKS - ILLINOIS PROFESSIONAL ENGINEER  
 ENGINEER NUMBER 62-044619  
 MY LICENSE EXPIRES 11/30/2011



**LEGEND**

- T — EXISTING UNDERGROUND TELEPHONE
- W — EXISTING UNDERGROUND WATER
- E — EXISTING UNDERGROUND ELECTRIC
- G — EXISTING UNDERGROUND GAS
- CTV — EXISTING UNDERGROUND CABLE TV
- EOGI END OF GEOPHYSICAL LOCATION

**NOTES:**

1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC FEATURES, AND UTILITY LINE WORK (EXCEPTING SUE QUALITY LEVEL B DESIGNATIONS) WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION.
2. THE NOTED UNDERGROUND ELECTRIC LINES WERE DESIGNATED AND SURVEYED, HOWEVER DO NOT APPEAR ON UTILITY ATLAS PROVIDED.

**AMERICAN**  
 SURVEYING & ENGINEERING, P.C.  
 SURVEYORS - ENGINEERS  
 GEODESISTS - MAPPING SCIENTISTS  
 Chicago: 312-277-2000 / Fax 312-277-2002  
 Dixon: 815-288-6231 / Fax 815-288-6277  
 Aurora: 603-997-8105 / Fax 630-897-4121  
 Illinois Professional Design Firm No. 184-003192

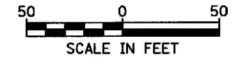
FILE NAME =	USER NAME = #USER#	DESIGNED - CTB	REVISED -
...\\geo\S160\F72-aht-SUE-10.dgn		DRAWN - ARA	REVISED -
		CHECKED - GAB	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SUB-SURFACE UTILITY ENGINEERING</b>		
SCALE: 1" = 50'	SHEET NO. 10 OF 16 SHEETS	STA. 209+97.84 TO STA. 221+08.00

F.A.P. RTE. 0003	SECTION 18A-2	COUNTY MCHENRY	TOTAL SHEETS 825	SHEET NO. 222
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

HUNTINGTON DRIVE  
 SOUTH MAIN STREET  
 LEGION DRIVE  
 RAILROAD STREET



STATE OF ILLINOIS )  
 COUNTY OF COOK ) S.S.

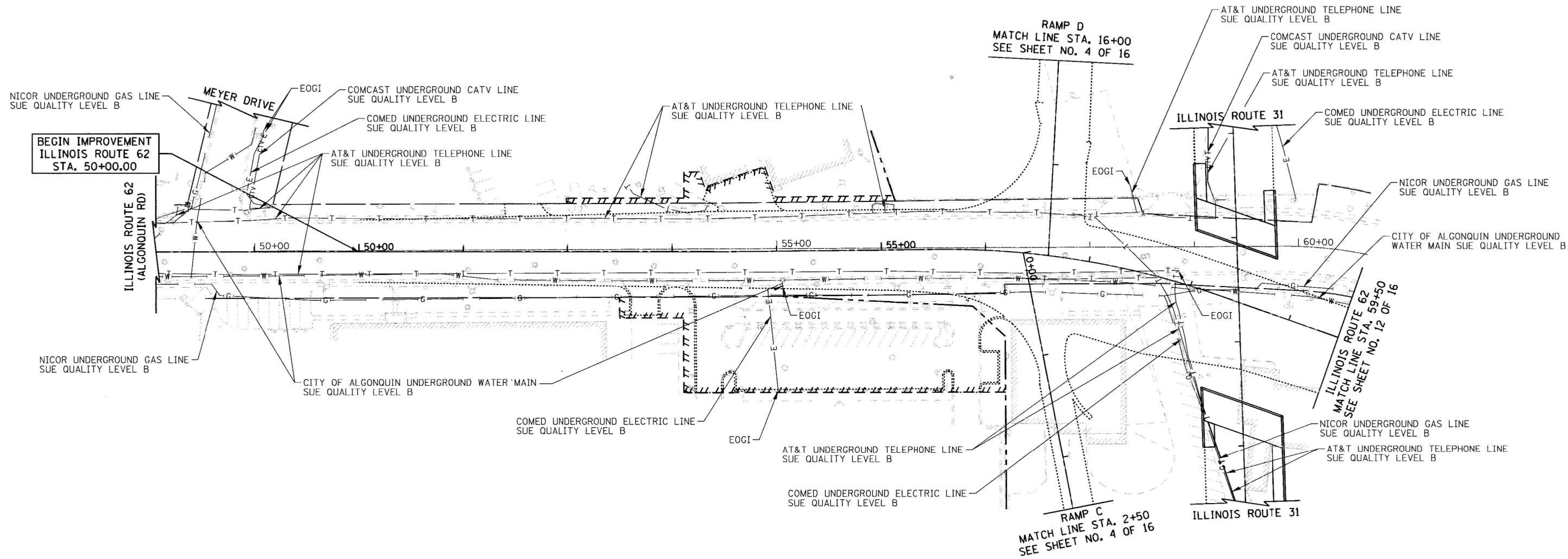
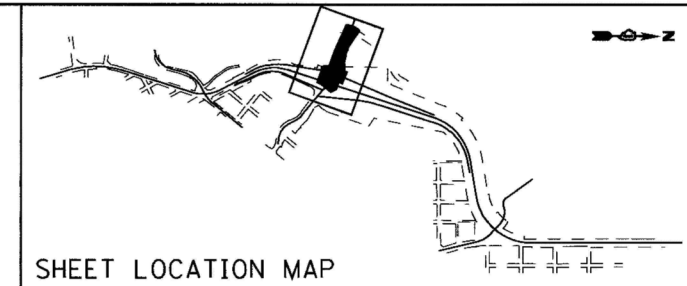
UTILITY(IES) SHOWN HEREON HAVE BEEN INVESTIGATED BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 1ST OF SEPTEMBER AND 26TH DAY OF OCTOBER, 2010.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 28TH DAY OF OCTOBER, 2010. CHICAGO, IL.



*Steven M. Rienks*  
 STEVEN M. RIENKS - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-044619  
 MY LICENSE EXPIRES 11/30/2011



**LEGEND**

- T — EXISTING UNDERGROUND TELEPHONE
- W — EXISTING UNDERGROUND WATER
- E — EXISTING UNDERGROUND ELECTRIC
- G — EXISTING UNDERGROUND GAS
- CTV — EXISTING UNDERGROUND CABLE TV
- EOGI END OF GEOPHYSICAL LOCATION

**NOTES:**

1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC FEATURES, AND UTILITY LINE WORK (EXCEPTING SUE QUALITY LEVEL B DESIGNATIONS) WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION.

**AMERICAN**  
 SURVEYING & ENGINEERING, P.C.  
 SURVEYORS - ENGINEERS  
 GEODESISTS - MAPPING SCIENTISTS  
 Chicago: 312-277-2000 / Fax 312-277-2002  
 Dixon: 815-288-6231 / Fax 815-288-6277  
 Aurora: 603-897-4105 / Fax 630-897-4121  
 Illinois Professional Design Firm No. 184-003192

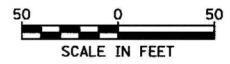
FILE NAME = ... \geo\5168F72-shr-SUE-11.dgn	USER NAME = #USER#	DESIGNED - CTB	REVISED -
		DRAWN - ARA	REVISED -
		CHECKED - GAB	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUB-SURFACE UTILITY ENGINEERING**

SCALE: 1" = 50'    SHEET NO. 11 OF 16 SHEETS    STA. 50+00 TO STA. 59+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	223
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



ILLINOIS ROUTE 62

STATE OF ILLINOIS )  
 COUNTY OF COOK ) S.S.

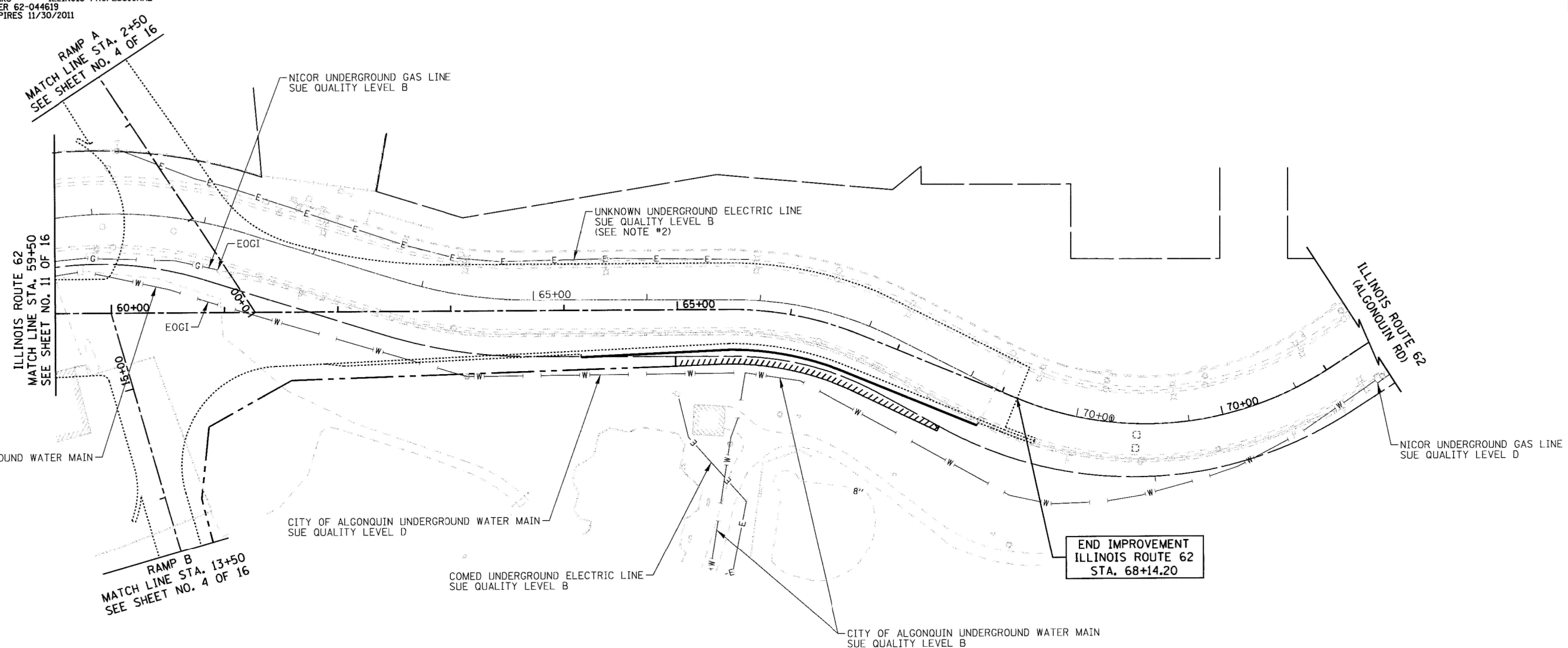
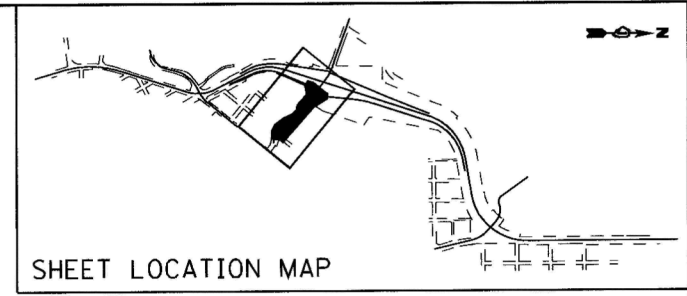
UTILITY(IES) SHOWN HEREON HAVE BEEN INVESTIGATED BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 1ST OF SEPTEMBER AND 26TH DAY OF OCTOBER, 2010.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 28TH DAY OF OCTOBER, 2010. CHICAGO, IL.



*Steven M. Rienks*  
 STEVEN M. RIENKS - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-044619  
 MY LICENSE EXPIRES 11/30/2011



**LEGEND**

- T — EXISTING UNDERGROUND TELEPHONE
- W — EXISTING UNDERGROUND WATER
- E — EXISTING UNDERGROUND ELECTRIC
- G — EXISTING UNDERGROUND GAS
- CTV — EXISTING UNDERGROUND CABLE TV
- EOGI END OF GEOPHYSICAL LOCATION

**NOTES:**

1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC FEATURES, AND UTILITY LINE WORK (EXCEPTING SUE QUALITY LEVEL B DESIGNATIONS) WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION.
2. THE NOTED UNDERGROUND ELECTRIC LINES WERE DESIGNATED AND SURVEYED, HOWEVER DO NOT APPEAR ON UTILITY ATLAS PROVIDED.

**AMERICAN**  
 SURVEYING & ENGINEERING, P.C.  
 SURVEYORS - ENGINEERS  
 GEODESISTS - MAPPING SCIENTISTS  
 Chicago: 312-277-2000 / Fax 312-277-2002  
 Dixon: 815-288-6231 / Fax 815-288-6277  
 Aurora: 630-897-4105 / Fax 630-897-4121  
 Illinois Professional Design Firm No. 184-003192

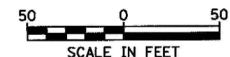
FILE NAME =	USER NAME = #USER#	DESIGNED - CTB	REVISED -
...\\geo\S160F72-ah-t-SUE-12.dgn		DRAWN - ARA	REVISED -
		CHECKED - GAB	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUB-SURFACE UTILITY ENGINEERING**

SCALE: 1" = 50'    SHEET NO. 12 OF 16 SHEETS    STA. 59+50    TO STA. 68+14.20

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	224
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60F72	





STATE OF ILLINOIS )  
COUNTY OF COOK ) S.S.

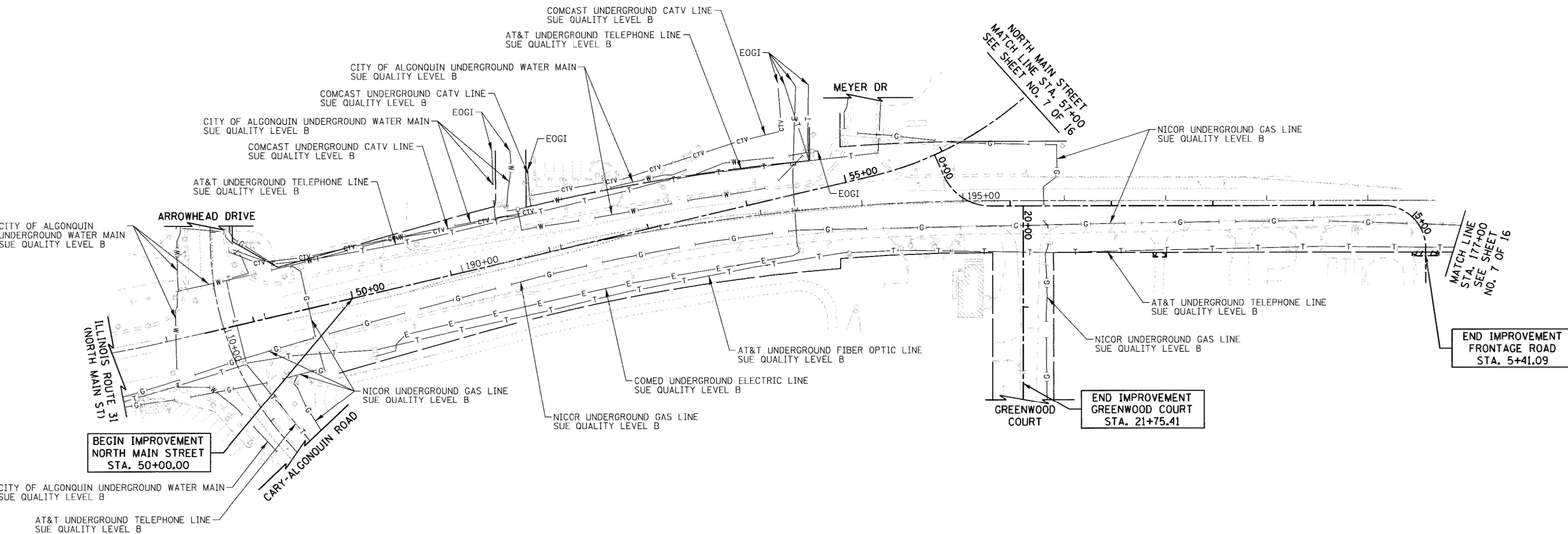
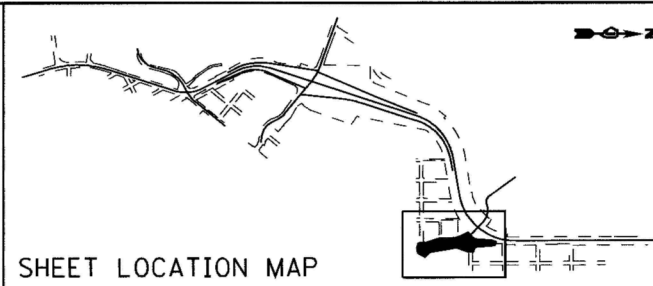
UTILITY(IES) SHOWN HEREON HAVE BEEN INVESTIGATED BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 1ST OF SEPTEMBER AND 26TH DAY OF OCTOBER, 2010.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 28TH DAY OF OCTOBER, 2010. CHICAGO, IL.



*Steven M. Rienks*  
**STEVEN M. RIENKS** - ILLINOIS PROFESSIONAL  
ENGINEER NUMBER 62-044619  
MY LICENSE EXPIRES 11/30/2011



**BEGIN IMPROVEMENT**  
**NORTH MAIN STREET**  
**STA. 50+00.00**

**END IMPROVEMENT**  
**GREENWOOD COURT**  
**STA. 21+75.41**

**END IMPROVEMENT**  
**FRONTAGE ROAD**  
**STA. 5+41.09**

**LEGEND**

- T — EXISTING UNDERGROUND TELEPHONE
- W — EXISTING UNDERGROUND WATER
- E — EXISTING UNDERGROUND ELECTRIC
- G — EXISTING UNDERGROUND GAS
- CTV — EXISTING UNDERGROUND CABLE TV
- EOGI END OF GEOPHYSICAL LOCATION

**NOTES:**

1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC FEATURES, AND UTILITY LINE WORK (EXCEPTING SUE QUALITY LEVEL B DESIGNATIONS) WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION.

**AMERICAN**  
SURVEYING & ENGINEERING, P.C.  
SURVEYORS - ENGINEERS  
GEODESISTS - MAPPING SCIENTISTS  
Chicago: 312-277-2000 / Fax 312-277-2002  
Dixons: 815-288-6231 / Fax 815-288-6277  
Aurora: 603-897-4105 / Fax 630-897-4121  
Illinois Professional Design Firm No. 184-003192

FILE NAME =	USER NAME = #USER#
...\\geo\5160F72-sht-SUE-13.dgn	
PLOT SCALE = 50.0000' / IN.	
PLOT DATE = 10/27/2010	

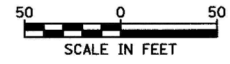
DESIGNED - CTB	REVISED -
DRAWN - ARA	REVISED -
CHECKED - GAB	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUB-SURFACE UTILITY ENGINEERING**

SCALE: 1" = 50' SHEET NO. 13 OF 16 SHEETS STA. 50+00 TO STA. 57+00

**NORTH MAIN STREET**  
**FRONTAGE ROAD**  
**GREENWOOD COURT**



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	225
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS )  
 COUNTY OF COOK ) S.S.

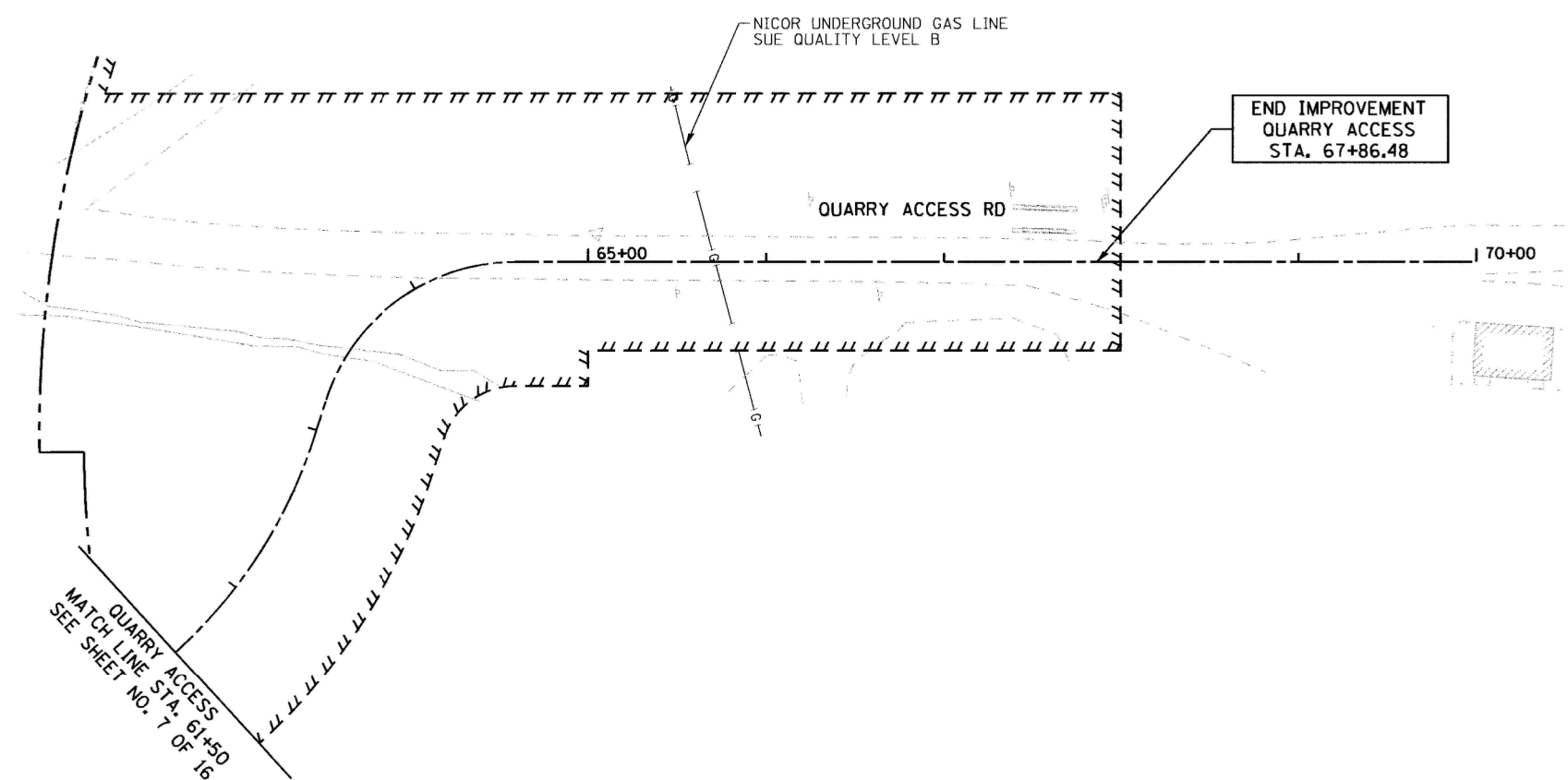
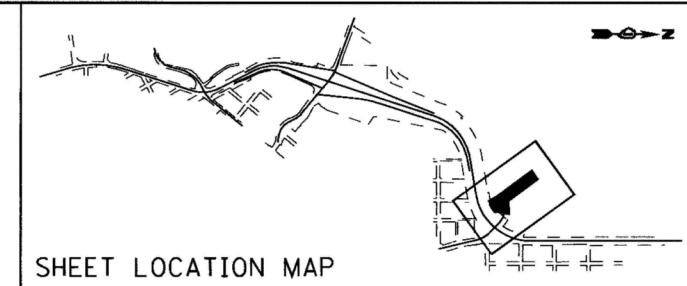
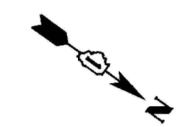
UTILITY(IES) SHOWN HEREON HAVE BEEN INVESTIGATED BY  
 ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY  
 LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN  
 PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 1ST OF SEPTEMBER AND  
 26TH DAY OF OCTOBER, 2010.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL  
 THIS 28TH DAY OF OCTOBER, 2010. CHICAGO, IL.



*Steven M. Rienks*  
 STEVEN M. RIENKS ILLINOIS PROFESSIONAL  
 ENGINEER NUMBER 62-044619  
 MY LICENSE EXPIRES 11/30/2011



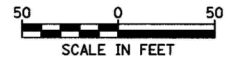
**LEGEND**

- T — EXISTING UNDERGROUND TELEPHONE
- W — EXISTING UNDERGROUND WATER
- E — EXISTING UNDERGROUND ELECTRIC
- G — EXISTING UNDERGROUND GAS
- CTV — EXISTING UNDERGROUND CABLE TV
- EOGL END OF GEOPHYSICAL LOCATION

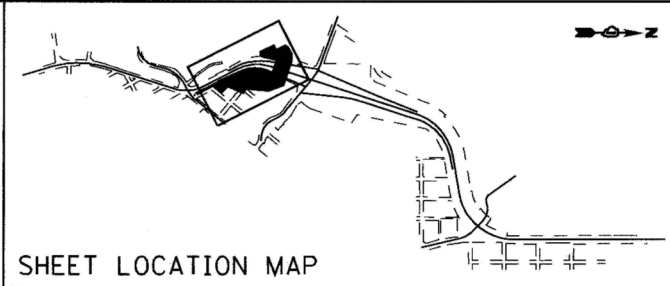
**NOTES:**

1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC FEATURES, AND UTILITY LINE WORK (EXCEPTING SUE QUALITY LEVEL B DESIGNATIONS) WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION.

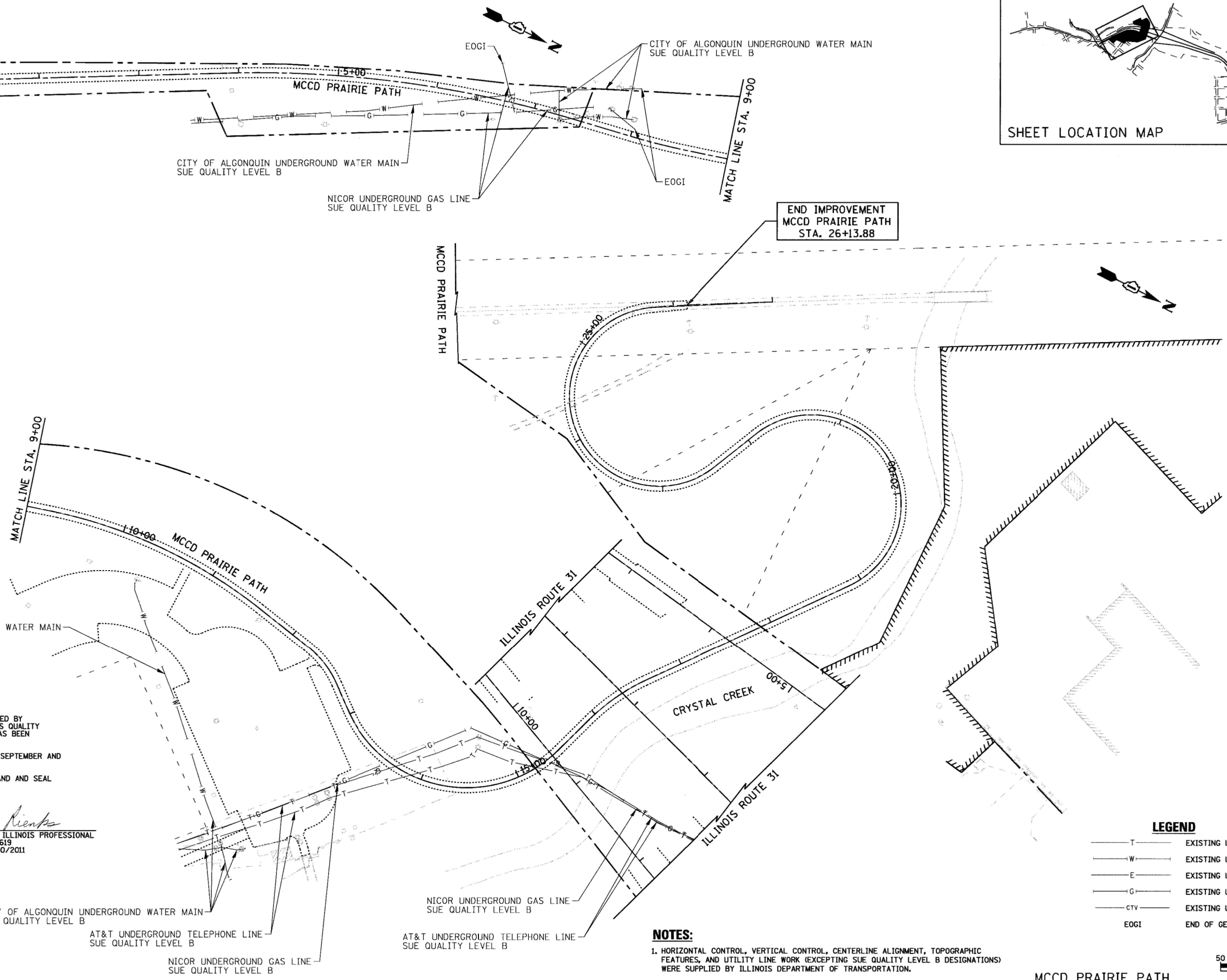
**AMERICAN**  
 SURVEYING & ENGINEERING, P.C.  
 SURVEYORS - ENGINEERS  
 GEODESISTS - MAPPING SCIENTISTS  
 Chicago: 312-277-2000 / Fax 312-277-2002  
 Dixon: 815-288-6231 / Fax 815-288-6277  
 Aurora: 603-897-4105 / Fax 630-897-4121  
 Illinois Professional Design Firm No. 184-003192



FILE NAME = ...\\geo\SI60F72-ahf-SUE-14.dgn	USER NAME = #USER#	DESIGNED - CTB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUB-SURFACE UTILITY ENGINEERING</b>	F.A.P. RTE. 0003	SECTION 18A-2	COUNTY MCHENRY	TOTAL SHEETS 825	SHEET NO. 226		
PLOT SCALE = 50.0000' / IN.	CHECKED - GAB	REVISED -	SCALE: 1" = 50'			SHEET NO. 14 OF 16 SHEETS	STA. 61+50 TO STA. 67+86.48	CONTRACT NO. 60F72				
PLOT DATE = 10/27/2010	DATE -	REVISED -	FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT									



MCCD PRAIRIE PATH  
MATCH LINE STA. 0+75  
SEE SHEET NO. 10 OF 16



STATE OF ILLINOIS }  
COUNTY OF COOK } S.S.

UTILITY(IES) SHOWN HEREON HAVE BEEN INVESTIGATED BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 1ST OF SEPTEMBER AND 26TH DAY OF OCTOBER, 2010.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 28TH DAY OF OCTOBER, 2010. CHICAGO, IL.

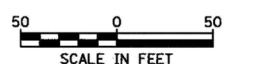


*Steven M. Rienks*  
STEVEN M. RIENKS - ILLINOIS PROFESSIONAL  
ENGINEER NUMBER 62-044619  
MY LICENSE EXPIRES 11/30/2011

**LEGEND**

T	EXISTING UNDERGROUND TELEPHONE
W	EXISTING UNDERGROUND WATER
E	EXISTING UNDERGROUND ELECTRIC
G	EXISTING UNDERGROUND GAS
CTV	EXISTING UNDERGROUND CABLE TV
EOGI	END OF GEOPHYSICAL LOCATION

**NOTES:**  
1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC FEATURES, AND UTILITY LINE WORK (EXCEPTING SUE QUALITY LEVEL B DESIGNATIONS) WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION.



**AMERICAN**  
SURVEYING & ENGINEERING, P.C.  
SURVEYORS • ENGINEERS  
GEODESISTS • MAPPING SCIENTISTS  
Chicago: 312-277-2000 / Fax 312-277-2002  
Dixon: 815-288-6231 / Fax 815-288-6277  
Aurora: 603-897-4105 / Fax 630-897-4121  
Illinois Professional Design Firm No. 384-003192

FILE NAME = ...\\geo\S160F72-ht-SUE-15.dgn	USER NAME = #USER#	DESIGNED - CTB	REVISED -
		DRAWN - ARA	REVISED -
		CHECKED - GAB	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUB-SURFACE UTILITY ENGINEERING**

SCALE: 1" = 50'    SHEET NO. 15 OF 16 SHEETS    STA. 0+75    TO STA. 26+13.88

F.A.P. RTE. 0003	SECTION 18A-2	COUNTY MCHENRY	TOTAL SHEETS 825	SHEET NO. 227
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

STATE OF ILLINOIS )  
 COUNTY OF COOK ) S.S.

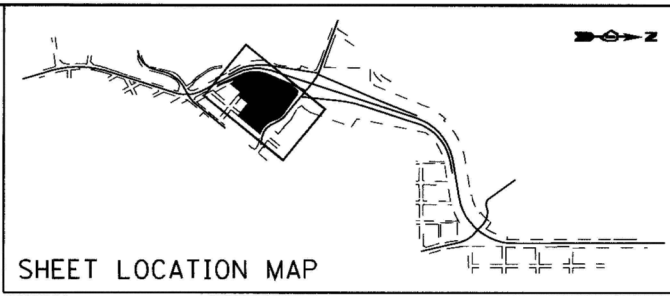
UTILITY(IES) SHOWN HEREON HAVE BEEN INVESTIGATED BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 1ST OF SEPTEMBER AND 26TH DAY OF OCTOBER, 2010.

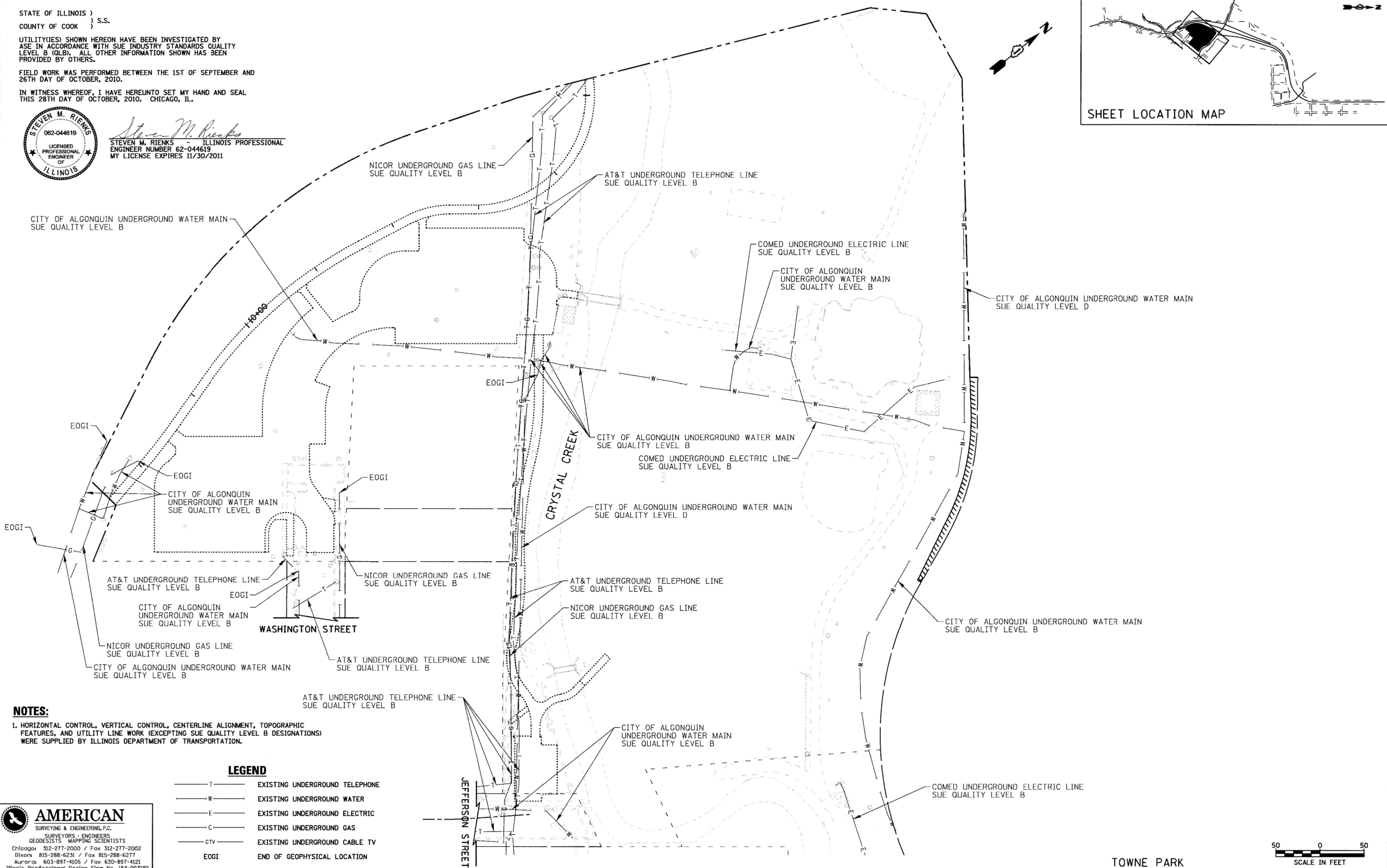
IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 28TH DAY OF OCTOBER, 2010. CHICAGO, IL.



*Steven M. Rienks*  
 STEVEN M. RIENKS - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-044619  
 MY LICENSE EXPIRES 11/30/2011



SHEET LOCATION MAP



**NOTES:**  
 1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC FEATURES, AND UTILITY LINE WORK (EXCEPTING SUE QUALITY LEVEL B DESIGNATIONS) WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION.

**LEGEND**

—T—	EXISTING UNDERGROUND TELEPHONE
—W—	EXISTING UNDERGROUND WATER
—E—	EXISTING UNDERGROUND ELECTRIC
—G—	EXISTING UNDERGROUND GAS
—CTV—	EXISTING UNDERGROUND CABLE TV
EOGI	END OF GEOPHYSICAL LOCATION

**AMERICAN**  
 SURVEYING & ENGINEERING, P.C.  
 SURVEYORS - ENGINEERS  
 GEODESISTS - MAPPING SCIENTISTS  
 Chicago: 312-277-2000 / Fax 312-277-2002  
 Dixon: 815-288-6231 / Fax 815-288-6277  
 Aurora: 603-897-4105 / Fax 630-897-4121  
 Illinois Professional Design Firm No. 384-003192

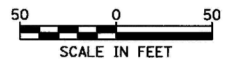
FILE NAME = ... \geo\5160F72-ahf-SUE-16.dgn	USER NAME = *USER*	DESIGNED - CTB	REVISED -
		DRAWN - ARA	REVISED -
		CHECKED - GAB	REVISED -
		DATE - 10/27/2010	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUB-SURFACE UTILITY ENGINEERING**

SCALE: 1" = 50'    SHEET NO. 16 OF 16 SHEETS    STA.    TO STA.

F.A.P. RTE. 0003	SECTION 18A-2	COUNTY MCHENRY	TOTAL SHEETS 825	SHEET NO. 228
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TOWNE PARK

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	229
FED. ROAD DIST. NO. 1	ILLINOIS	CONTRACT NO. 60F72		

VOLUME II

FOR INDEX OF SHEETS, SEE SHEET NO. 230

SUBSURFACE UTILITY ENGINEERING (S.U.E.)  
UTILIZED ON THIS PROJECT

**PROJECT LOCATED IN THE  
VILLAGE OF ALGONQUIN**

**DESIGN DESIGNATION**

34,000(30) OTHER PRINCIPAL ARTERIAL 6.03 (PCC-20)

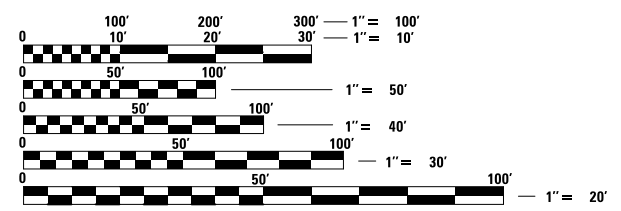
**TRAFFIC DATA**

	ADT (2030)	DESIGN SPEED	POSTED SPEED
IL ROUTE 31 (EDGEWOOD DRIVE TO HUNTINGTON DRIVE)	26,000	40 MPH	35 MPH
IL ROUTE 31 (HUNTINGTON DRIVE TO IL ROUTE 62)	16,000	40 MPH	40 MPH
IL ROUTE 31 (IL ROUTE 62 TO CARY-ALGONQUIN ROAD)	34,000	50 MPH	45 MPH
IL ROUTE 31 (CARY-ALGONQUIN ROAD TO KLASEN ROAD)	43,000	50 MPH	45 MPH
EDGEWOOD DRIVE	9,000	35 MPH	30 MPH
HUNTINGTON DRIVE	7,000	35 MPH	30 MPH
IL ROUTE 62 (EAST OF PROPOSED IL ROUTE 31)	48,000	35 MPH	30 MPH
IL ROUTE 62 (WEST OF PROPOSED IL ROUTE 31)	32,000	35 MPH	30 MPH

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

O.R. ROUTE 0003 (ALGONQUIN BYPASS)  
SECTION 18A-2  
ILLINOIS ROUTE 31 (N. JCT) TO ILLINOIS ROUTE 31 (S. JCT)  
PROJECT NO.:  
**NEW CONSTRUCTION, BRIDGE (NEW), RETAINING WALL  
McHENRY COUNTY**

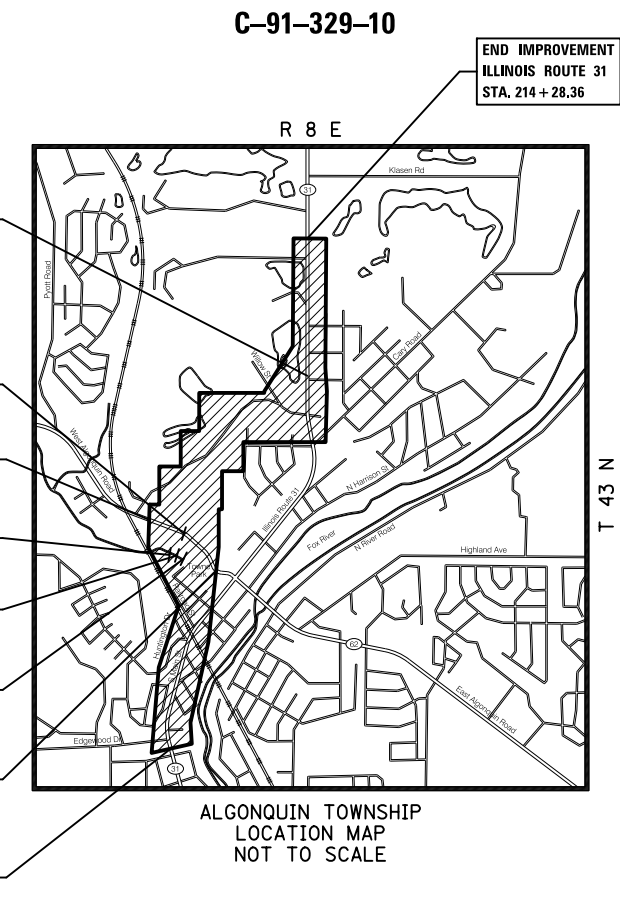


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

DISTRICT ONE - DESIGN  
PROJECT MANAGER: ISAAC KWARTENG (847) 705-4230  
PROJECT ENGINEER: ALIX BRICE (847) 705-4552

CONTRACT NO. 60F72



GROSS LENGTH = 11,153.55 FT. = 2.112 MILES  
NET LENGTH = 11,153.55 FT. = 2.112 MILES

PLANS PREPARED BY:  
**CIVILTECH**  
450 E. Devon Ave, Suite 300 - Itasca, Illinois 60143  
Tel: 630.773.3900 - Fax: 630.773.3975  
www.civiltechinc.com



LOCATION OF SECTION INDICATED THIS: - [black rectangle] -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED \_\_\_\_\_ 20 \_\_\_\_\_  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

\_\_\_\_\_ 20 \_\_\_\_\_  
ENGINEER OF DESIGN AND ENVIRONMENT

\_\_\_\_\_ 20 \_\_\_\_\_  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

# INDEX OF SHEETS

## VOLUME I

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS
3 - 5	GENERAL NOTES & INDEX OF STATE STANDARDS
6 -23C	SUMMARY OF QUANTITIES
24 - 38	TYPICAL SECTIONS
39 - 49	SCHEDULE OF QUANTITIES
50 - 56	ALIGNMENT, TIES & BENCHMARKS
57 - 69	REMOVAL PLANS
70 - 83	ROADWAY PLANS
84 -102	ROADWAY PROFILES
103 - 147	MAINTENANCE OF TRAFFIC
148 -148A	DETOUR PLANS
149 - 176	EROSION AND SEDIMENT CONTROL PLANS
177 - 191	DRAINAGE AND UTILITIES PLANS
192 - 210	DRAINAGE AND UTILITIES PROFILES
211 - 212	DRAINAGE AND UTILITIES WATERMAIN PROFILES
213 - 228	SUB-SURFACE UTILITY ENGINEERING

## VOLUME II

SHEET NO.	DESCRIPTION
229	COVER SHEET
230	INDEX OF SHEETS
231 - 244	PAVEMENT MARKING PLANS
245 - 256	LANDSCAPING PLANS
257 - 262	LANDSCAPING DETAILS
263 - 297	TRAFFIC SIGNAL PLANS
298 - 328	LIGHTING PLANS
329 - 344	JOINTING AND GRADING PLANS
345 - 397	DETAILS
398 - 399	TOWNE PARK PLANS
400 - 409	CRYSTAL CREEK RELOCATION PLANS
410 - 457	PLAT OF HIGHWAYS

## VOLUME III

SHEET NO.	DESCRIPTION
458	COVER SHEET
459	INDEX OF SHEETS
460	STRUCTURE LOCATIONS
461 - 493	SN 056-0077 - IL ROUTE 31 OVER CRYSTAL CREEK
494 - 525	SN 056-0081 - IL ROUTE 31 OVER IL ROUTE 62
526 - 554	SN 056-0079 - RAMP B OVER CRYSTAL CREEK
555 - 584	SN 056-0080 - RAMP C OVER CRYSTAL CREEK
585 - 593	SN 056-2507 - IL ROUTE 31 WALL A
594 - 596	IL ROUTE 31 WALL B
597 - 604	SN 056-2500 - IL ROUTE 31 WALL C
605 - 612	SN 056-2501 - IL ROUTE 31 WALL D
613 - 619	SN 056-2502 - RAMP C WALL E
620 - 634	SN 056-2505 - IL ROUTE 31 WALL F
635 - 639	SN 056-2506 - IL ROUTE 31 WALL G
640 - 644	HUNTINGTON DRIVE WALL H
645 - 649	HUNTINGTON DRIVE WALL I
650 - 655	SN 056-2503 - HUNTINGTON DRIVE WALL J
656 - 664	SN 056-2504 - ALGONQUIN ROAD WALL K
665 - 669	IL ROUTE 31 NOISE WALL

## VOLUME IV

SHEET NO.	DESCRIPTION
670	COVER SHEET
671	INDEX OF SHEETS
672 - 675	CROSS SECTIONS LOCATION PLAN
676 - 679	CROSS SECTIONS ROADSIDE GRADING PLAN
680 - 743	CROSS SECTIONS - ILLINOIS ROUTE 31
744	CROSS SECTIONS - EDGEWOOD DRIVE
745 - 749	CROSS SECTIONS - HUNTINGTON DRIVE
750 - 751	CROSS SECTIONS - LEGION DRIVE
752 - 754	CROSS SECTIONS - SOUTH MAIN STREET
755 - 756	CROSS SECTIONS - RAILROAD STREET
757 - 766	CROSS SECTIONS - ALGONQUIN ROAD
767 - 783	CROSS SECTIONS - RAMP A
784 - 787	CROSS SECTIONS - RAMP B
788 - 792	CROSS SECTIONS - RAMP C
793 - 798	CROSS SECTIONS - RAMP D
799 - 804	CROSS SECTIONS - ACCESS DRIVE
805 - 808	CROSS SECTIONS - NORTH MAIN STREET
809 - 812	CROSS SECTIONS - QUARRY ACCESS
813 - 815	CROSS SECTIONS - FRONTAGE ROAD
816 - 825	CROSS SECTIONS - MCCD PRAIRIE PATH

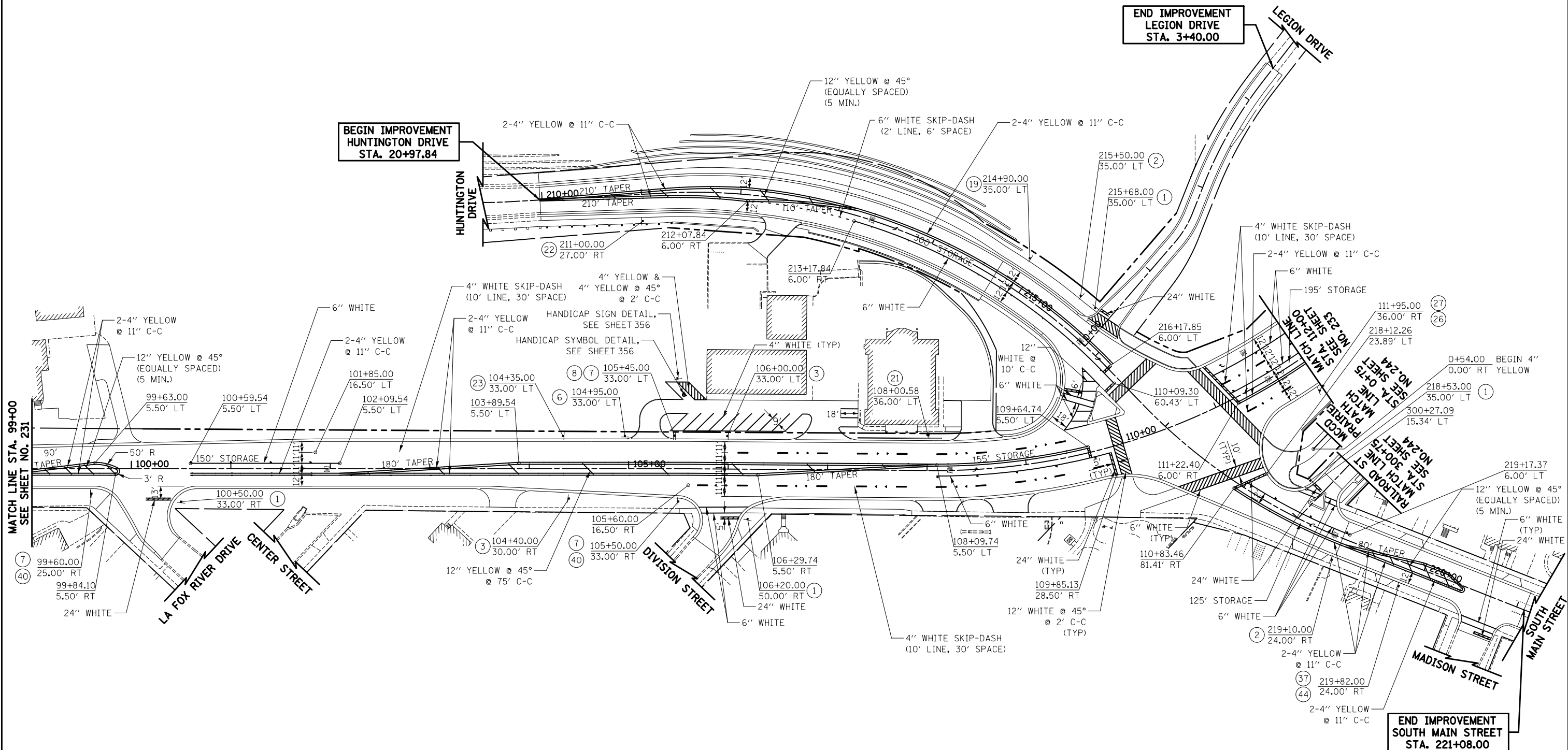
FILE NAME = ...\\D160F72-sht-index11.dgn	USER NAME = okw	DESIGNED - CTB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS</b>			O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - CTB	REVISED -		0003	18A-2	MCHENRY	825	230			
		CHECKED - GAB	REVISED -		<b>CONTRACT NO. 60F72</b>							
		DATE - 5/3/2012	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT			
		PLOT SCALE = 2.0000' / 1" =										
		PLOT DATE = 5/2/2012										





**LEGEND**

- ◁ ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKER
- ◄ ONE-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKER
- ◆ TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKER



NOTE:  
 -ALL PERMANENT PAVEMENT MARKINGS ON HMA SURFACES SHALL BE THERMOPLASTIC  
 -ALL PERMANENT PAVEMENT MARKINGS ON CONCRETE SURFACES SHALL BE POLYUREA, TYPE 1  
 -ALL PERMANENT PAVEMENT MARKINGS ON MCCD TRAIL AND PARKING LOTS SHALL BE PAINT

ILLINOIS ROUTE 31  
 HUNTINGTON DRIVE  
 LEGION DRIVE  
 SOUTH MAIN STREET



FILE NAME =  
 ...\\D160F72-sht-pmk-02.dgn

USER NAME = akw  
 DESIGNED - CTB  
 DRAWN - CTB  
 CHECKED - GAB  
 DATE - 5/3/2012

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN

SCALE: 1" = 50' SHEET NO. 2 OF 14 SHEETS STA. 99+00 TO STA. 112+00

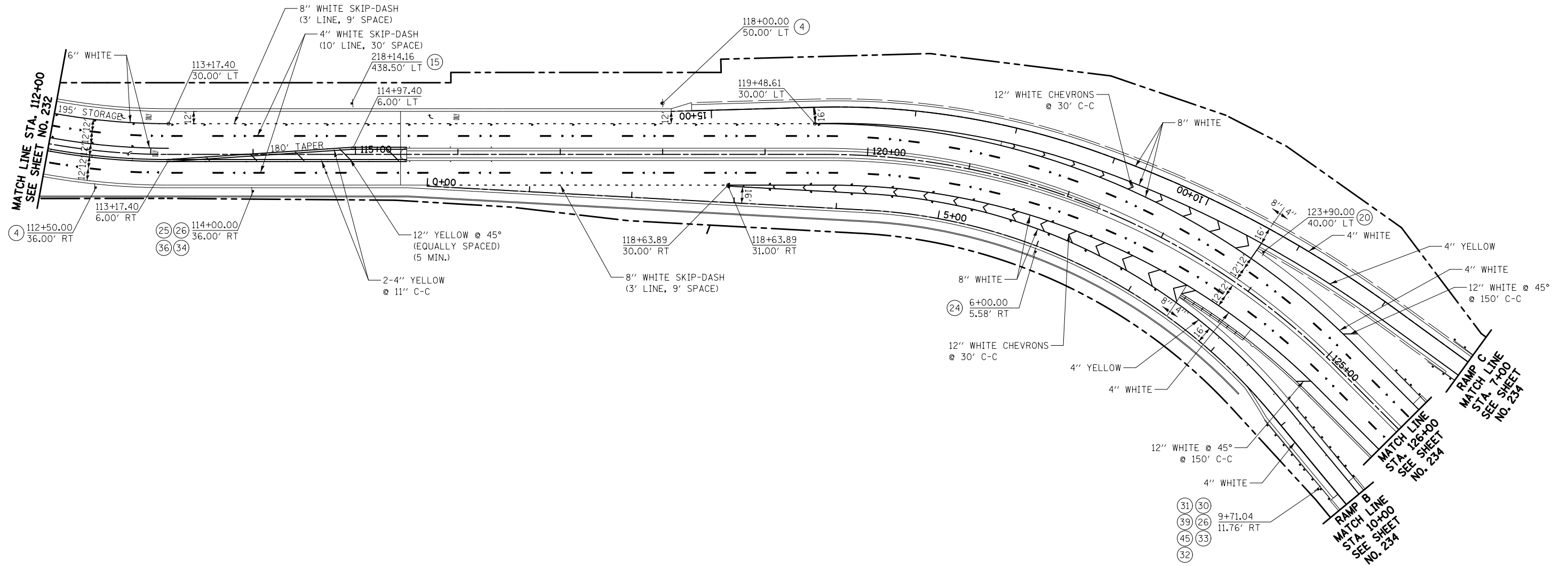
O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	232

CONTRACT NO. 60F72  
 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



**LEGEND**

- ◀ ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKER
- ◄ ONE-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKER
- ◆ TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKER



NOTE:  
 -ALL PERMANENT PAVEMENT MARKINGS ON HMA SURFACES SHALL BE THERMOPLASTIC  
 -ALL PERMANENT PAVEMENT MARKINGS ON CONCRETE SURFACES SHALL BE POLYUREA, TYPE 1  
 -ALL PERMANENT PAVEMENT MARKINGS ON MCCD TRAIL AND PARKING LOTS SHALL BE PAINT

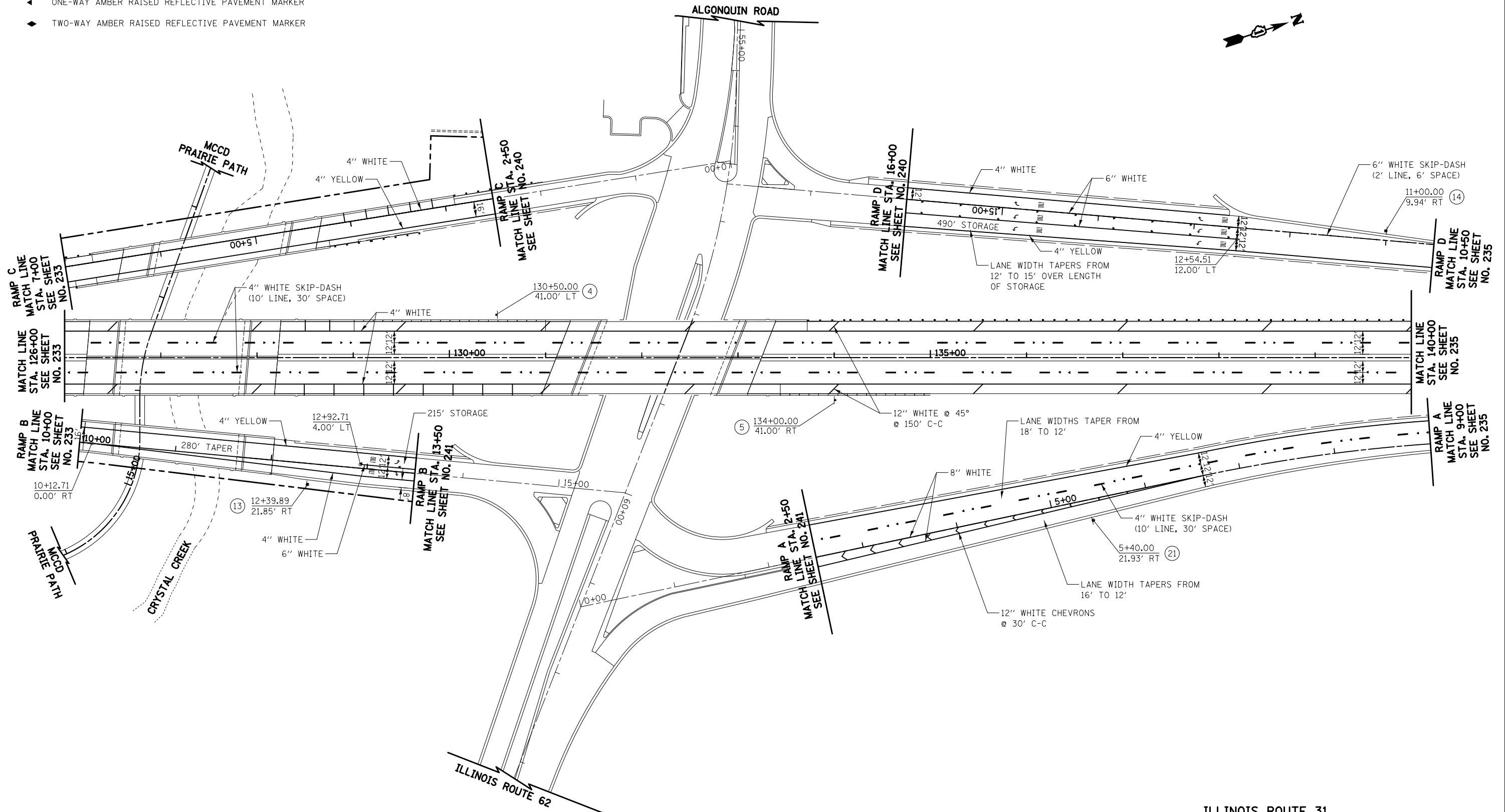
**ILLINOIS ROUTE 31  
 RAMP B  
 RAMP C**



FILE NAME = ... \D160F72-sh1-pmk-03.dgn	USER NAME = okw	DESIGNED - CTB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING PLAN</b>			O.R. RTE. 0003	SECTION 18A-2	COUNTY MCHENRY	TOTAL SHEETS 825	SHEET NO. 233
	PLOT SCALE = 100.0000' / 1" =	CHECKED - GAB	REVISED -		SCALE: 1" = 50'	SHEET NO. 3 OF 14 SHEETS	STA. 112+00 TO STA. 126+00	CONTRACT NO. 60F72				
	PLOT DATE = 5/2/2012	DATE - 5/3/2012	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

**LEGEND**

- ◄ ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKER
- ▲ ONE-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKER
- ◆ TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKER



NOTE:  
 -ALL PERMANENT PAVEMENT MARKINGS ON HMA SURFACES SHALL BE THERMOPLASTIC  
 -ALL PERMANENT PAVEMENT MARKINGS ON CONCRETE SURFACES SHALL BE POLYUREA, TYPE 1  
 -ALL PERMANENT PAVEMENT MARKINGS ON MCCD TRAIL AND PARKING LOTS SHALL BE PAINT

ILLINOIS ROUTE 31  
 RAMP A  
 RAMP B  
 RAMP C  
 RAMP D



FILE NAME =  
 ... \D160F72-sh1-pmk-04.dgn

USER NAME = akw  
 PLOT SCALE = 100.0000' / 1" = 100'  
 PLOT DATE = 5/2/2012

DESIGNED - CTB  
 DRAWN - CTB  
 CHECKED - GAB  
 DATE - 5/3/2012

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

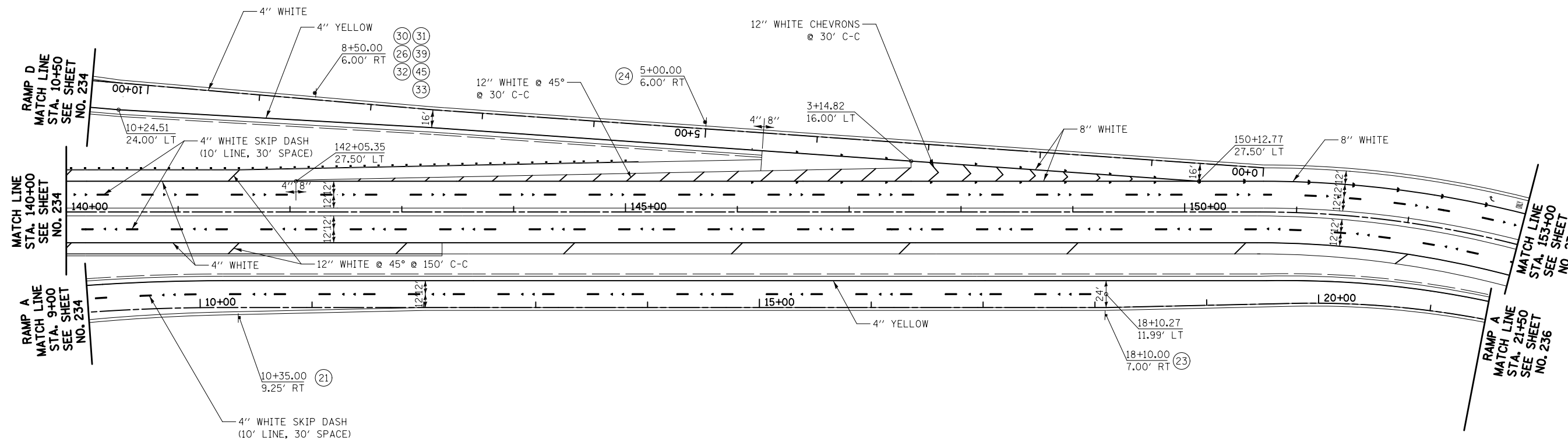
PAVEMENT MARKING PLAN

SCALE: 1" = 50' SHEET NO. 4 OF 14 SHEETS STA. 126+00 TO STA. 140+00

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	234
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**LEGEND**

- ◀ ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKER
- ◀ ONE-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKER
- ◆ TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKER



NOTE:  
 -ALL PERMANENT PAVEMENT MARKINGS ON HMA SURFACES SHALL BE THERMOPLASTIC  
 -ALL PERMANENT PAVEMENT MARKINGS ON CONCRETE SURFACES SHALL BE POLYUREA, TYPE 1  
 -ALL PERMANENT PAVEMENT MARKINGS ON MCCD TRAIL AND PARKING LOTS SHALL BE PAINT

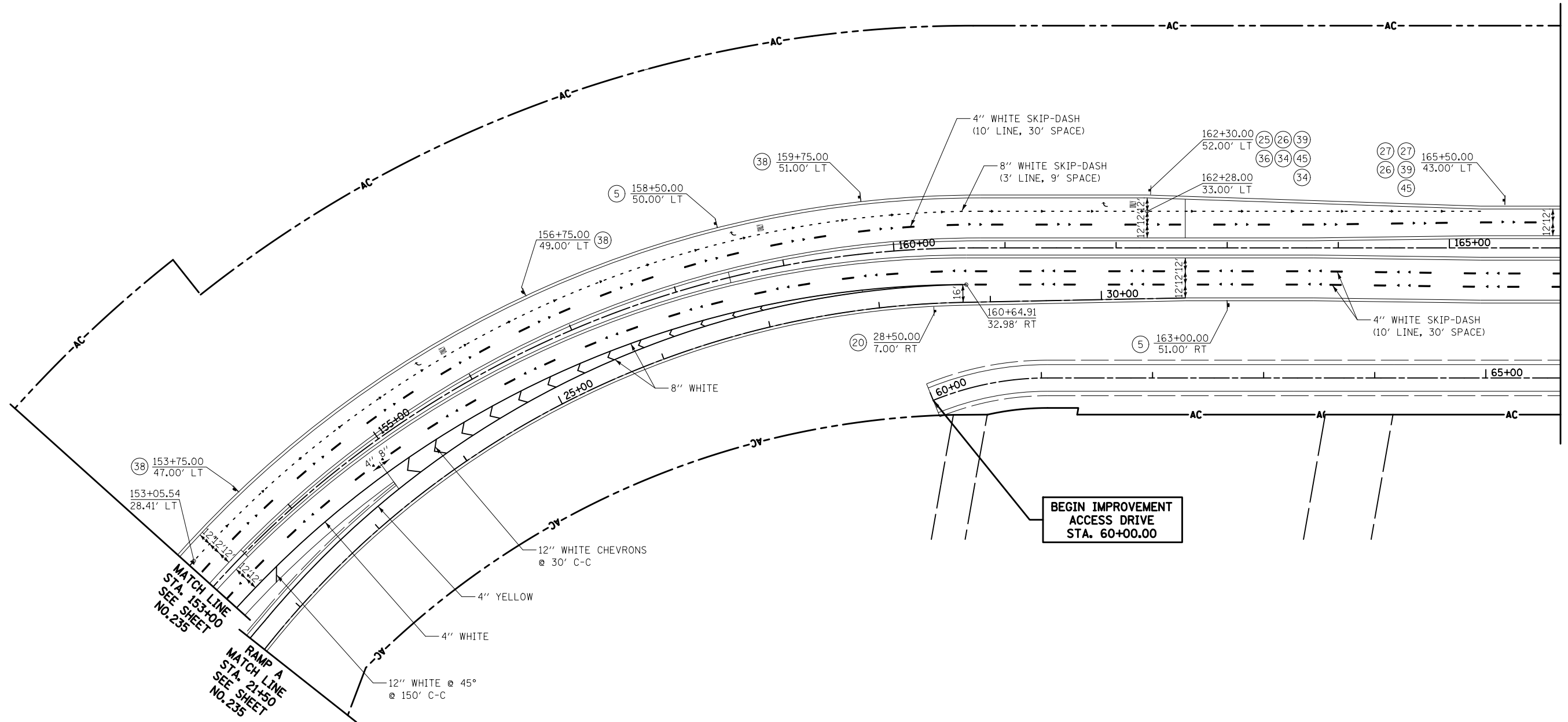
ILLINOIS ROUTE 31  
 RAMP A  
 RAMP D



FILE NAME = ... \D160F72-sh1-pmk-05.dgn	USER NAME = okw	DESIGNED - CTB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING PLAN</b>			O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / 1" =	CHECKED - GAB	REVISED -					0003	18A-2	MCHENRY	825	235
PLOT DATE = 5/2/2012	DATE - 5/3/2012	REVISED -		SCALE: 1" = 50'	SHEET NO. 5 OF 14 SHEETS	STA. 140+00	TO STA. 153+00	CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT												

**LEGEND**

- ◀ ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKER
- ◀ ONE-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKER
- ◆ TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKER



MATCH LINE STA. 166+00  
SEE SHEET NO. 237

NOTE:  
 -ALL PERMANENT PAVEMENT MARKINGS ON HMA SURFACES SHALL BE THERMOPLASTIC  
 -ALL PERMANENT PAVEMENT MARKINGS ON CONCRETE SURFACES SHALL BE POLYUREA, TYPE 1  
 -ALL PERMANENT PAVEMENT MARKINGS ON MCCD TRAIL AND PARKING LOTS SHALL BE PAINT

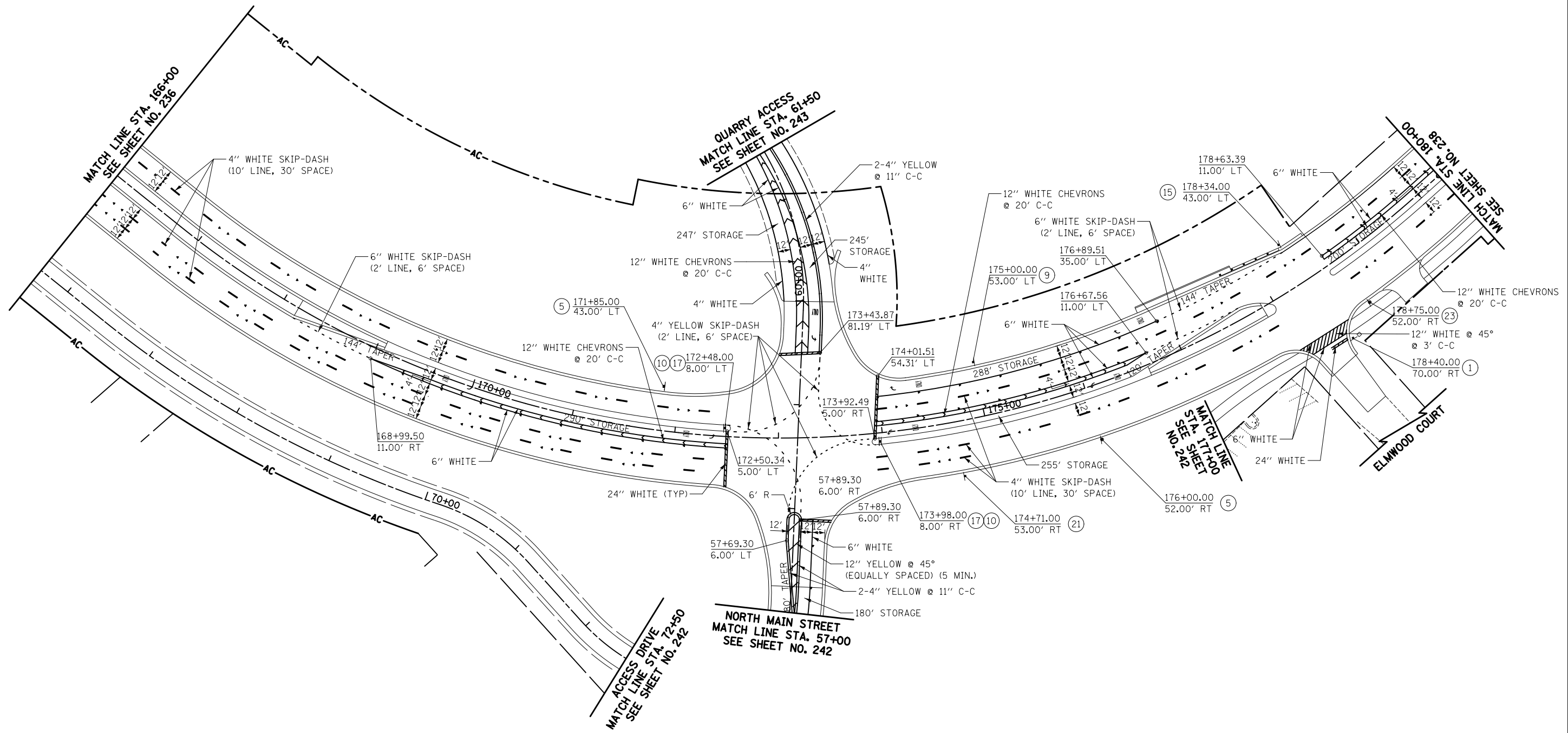
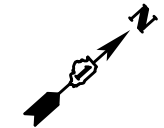
ILLINOIS ROUTE 31  
RAMP A



FILE NAME = ... \D160F72-sh1-pmk-06.dgn	USER NAME = okw	DESIGNED - CTB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING PLAN</b>	O.R. RTE. 0003	SECTION 18A-2	COUNTY MCHENRY	TOTAL SHEETS 825	SHEET NO. 236
	PLOT SCALE = 100.0000' / 1" =	CHECKED - GAB	REVISED -	SCALE: 1" = 50'	SHEET NO. 6 OF 14 SHEETS	STA. 153+00	TO STA. 166+00	CONTRACT NO. 60F72		
	PLOT DATE = 5/2/2012	DATE - 5/3/2012	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						

**LEGEND**

- ◀ ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKER
- ◀ ONE-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKER
- ◆ TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKER



NOTE:  
 -ALL PERMANENT PAVEMENT MARKINGS ON HMA SURFACES SHALL BE THERMOPLASTIC  
 -ALL PERMANENT PAVEMENT MARKINGS ON CONCRETE SURFACES SHALL BE POLYUREA, TYPE 1  
 -ALL PERMANENT PAVEMENT MARKINGS ON MCCD TRAIL AND PARKING LOTS SHALL BE PAINT

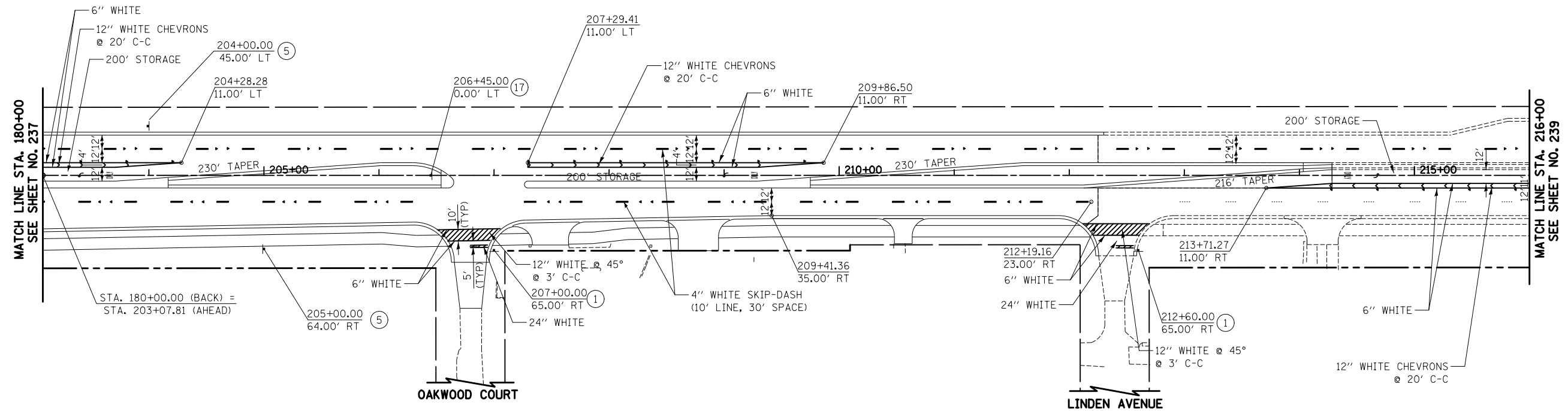
**ILLINOIS ROUTE 31  
 QUARRY ACCESS  
 NORTH MAIN STREET**



FILE NAME = ... \D160F72-sht-pmk-07.dgn	USER NAME = akw	DESIGNED - CTB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING PLAN</b>			O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 100.0000' / 1in.	CHECKED - GAB	REVISED -		SCALE: 1" = 50'	SHEET NO. 7 OF 14 SHEETS	STA. 166+00	TO STA. 180+00	0003	18A-2	MCHENRY	825	237
	PLOT DATE = 5/2/2012	DATE - 5/3/2012	REVISED -					<b>CONTRACT NO. 60F72</b>					
					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								

**LEGEND**

- ◁ ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKER
- ◀ ONE-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKER
- ◆ TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKER



NOTE:  
 -ALL PERMANENT PAVEMENT MARKINGS ON HMA SURFACES SHALL BE THERMOPLASTIC  
 -ALL PERMANENT PAVEMENT MARKINGS ON CONCRETE SURFACES SHALL BE POLYUREA, TYPE 1  
 -ALL PERMANENT PAVEMENT MARKINGS ON MCCD TRAIL AND PARKING LOTS SHALL BE PAINT



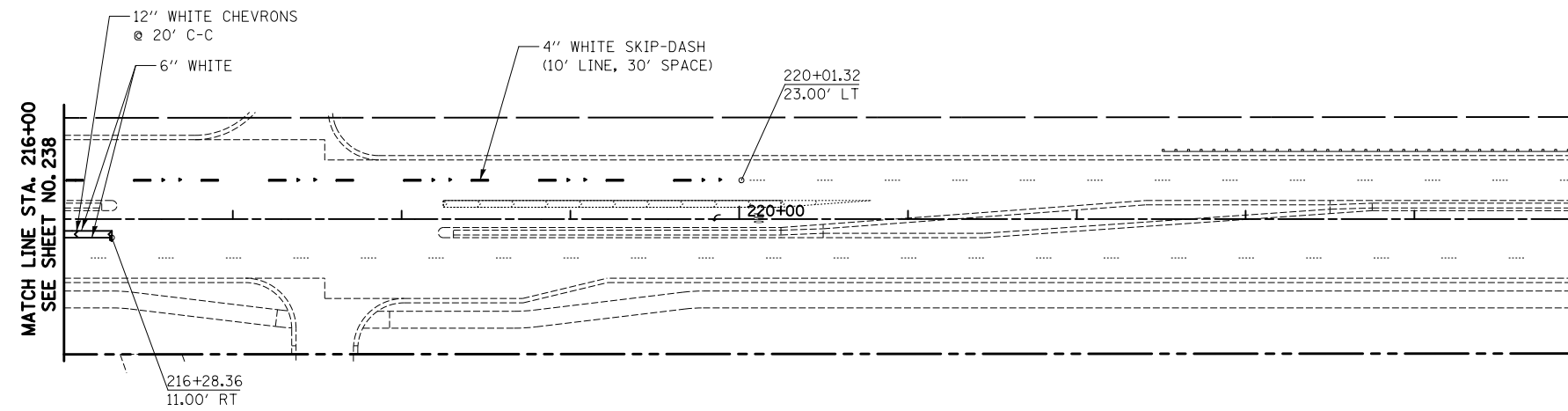
ILLINOIS ROUTE 31

FILE NAME = ... \D160F72-sh1-pmk-08.dgn	USER NAME = akw	DESIGNED - CTB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING PLAN</b>			O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / 1" =	CHECKED - GAB	REVISED -					0003	18A-2	MCHENRY	825	238
PLOT DATE = 5/2/2012	DATE = 5/3/2012	REVISED -	REVISED -	SCALE: 1" = 50'    SHEET NO. 8 OF 14 SHEETS    STA. 180+00 TO STA. 216+00			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

CONTRACT NO. 60F72

**LEGEND**

- ◁ ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKER
- ◄ ONE-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKER
- ◆ TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKER



NOTE:  
 -ALL PERMANENT PAVEMENT MARKINGS ON HMA SURFACES SHALL BE THERMOPLASTIC  
 -ALL PERMANENT PAVEMENT MARKINGS ON CONCRETE SURFACES SHALL BE POLYUREA, TYPE 1  
 -ALL PERMANENT PAVEMENT MARKINGS ON MCCD TRAIL AND PARKING LOTS SHALL BE PAINT

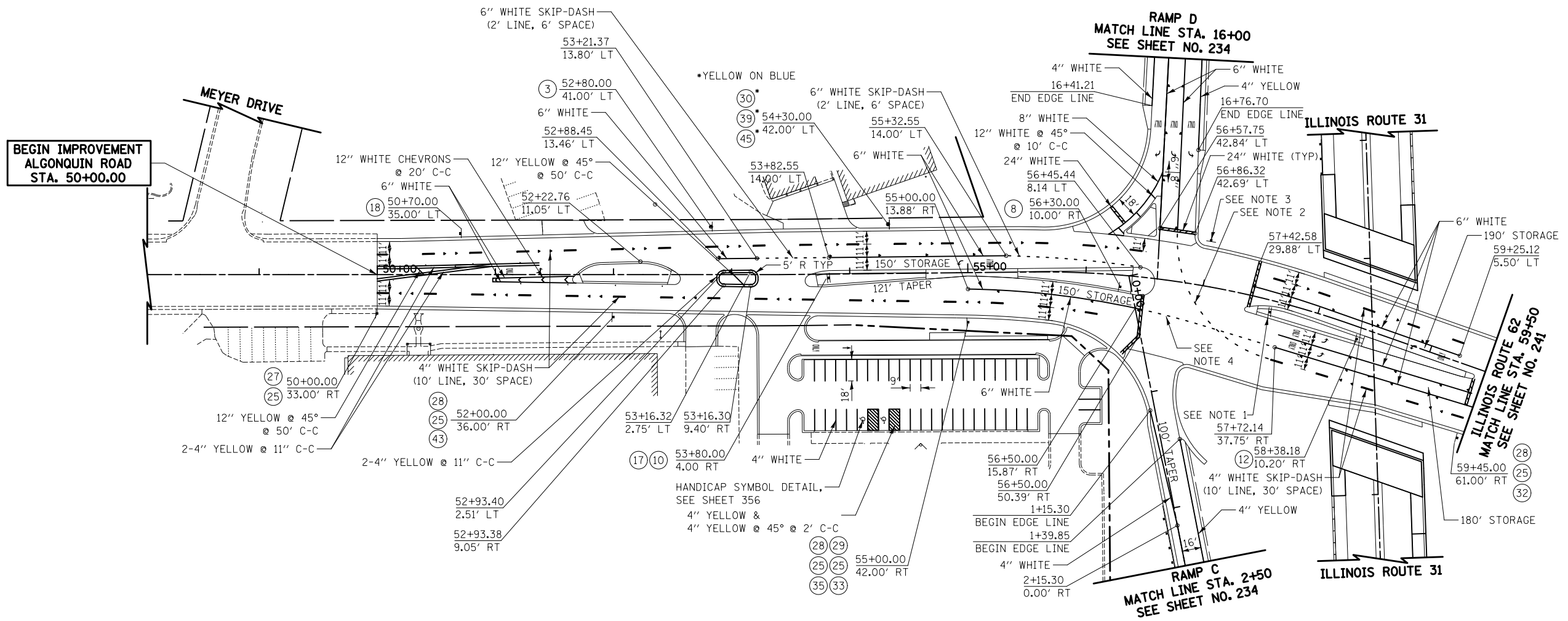


ILLINOIS ROUTE 31

FILE NAME = ... \D160F72-sh1-pmk-09.dgn	USER NAME = okw	DESIGNED - CTB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING PLAN</b>			O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / in.	CHECKED - GAB	REVISED -					0003	18A-2	MCHENRY	825	239
PLOT DATE = 5/2/2012	DATE - 5/3/2012	REVISED -		SCALE: 1" = 50'	SHEET NO. 9 OF 14 SHEETS	STA. 216+00	TO STA. 221+96.36	CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT												

**LEGEND**

- ◀ ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKER
- ◀ ONE-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKER
- ◆ TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKER



**NOTES**

1. 57+60.00 10.00' RT (17) (25) (32)
2. 4" WHITE SKIP-DASH (2' LINE, 6' SPACE) TYP.
3. 57+00.00 38.00' LT (6)
4. 6" WHITE SKIP-DASH (2' LINE, 6' SPACE)

NOTE:  
 -ALL PERMANENT PAVEMENT MARKINGS ON HMA SURFACES SHALL BE THERMOPLASTIC  
 -ALL PERMANENT PAVEMENT MARKINGS ON CONCRETE SURFACES SHALL BE POLYUREA, TYPE 1  
 -ALL PERMANENT PAVEMENT MARKINGS ON MCCD TRAIL AND PARKING LOTS SHALL BE PAINT

**ALGONQUIN ROAD  
 ILLINOIS ROUTE 62  
 RAMP C  
 RAMP D**

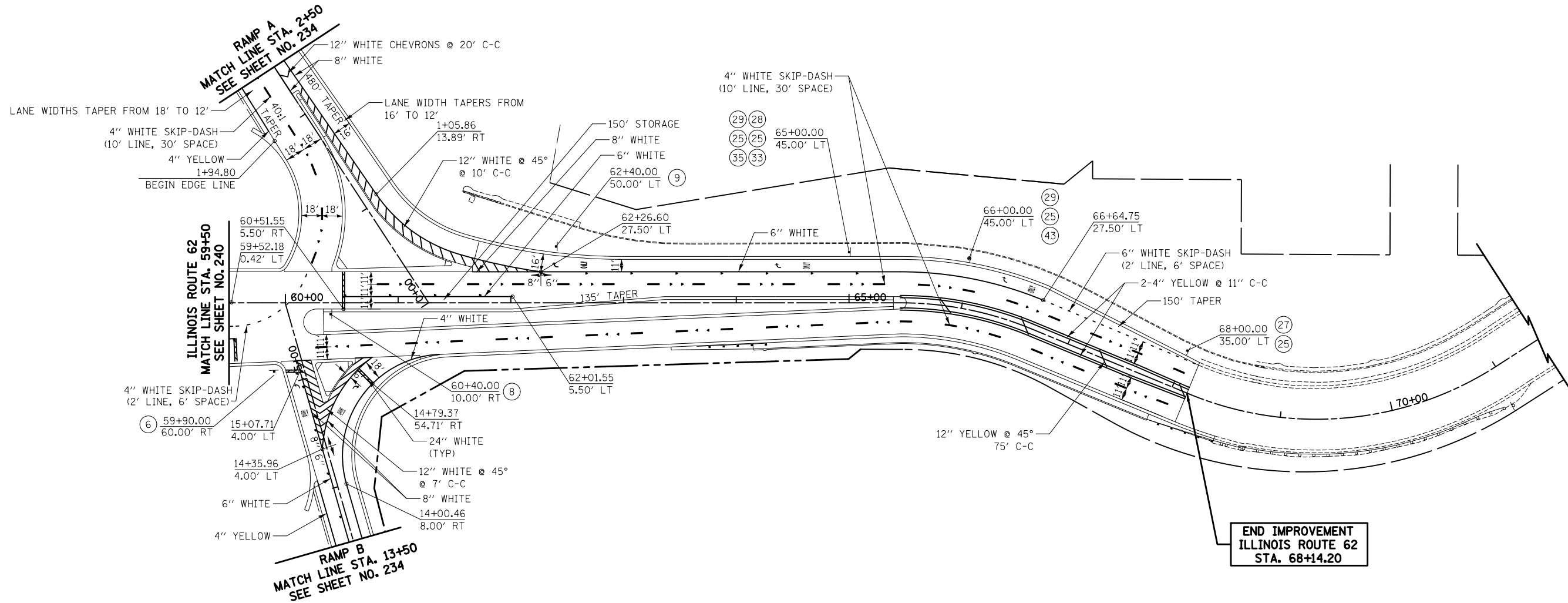
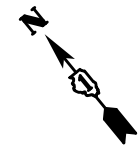


FILE NAME = ... \D160F72-sht-pmk-10.dgn	USER NAME = akw	DESIGNED - CTB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING PLAN</b>	O.R. RTE. 0003	SECTION 18A-2	COUNTY MCHENRY	TOTAL SHEETS 825	SHEET NO. 240
PLOT SCALE = 100.0000' / 1in.		CHECKED - GAB	REVISED -	SCALE: 1" = 50'		SHEET NO. 10 OF 14 SHEETS		STA. 50+00 TO STA. 59+50		CONTRACT NO. 60F72
PLOT DATE = 5/2/2012		DATE - 5/3/2012	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



**LEGEND**

- ◀ ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKER
- ◀ ONE-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKER
- ◆ TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKER



NOTE:  
 -ALL PERMANENT PAVEMENT MARKINGS ON HMA SURFACES SHALL BE THERMOPLASTIC  
 -ALL PERMANENT PAVEMENT MARKINGS ON CONCRETE SURFACES SHALL BE POLYUREA, TYPE 1  
 -ALL PERMANENT PAVEMENT MARKINGS ON MCCD TRAIL AND PARKING LOTS SHALL BE PAINT

**ILLINOIS ROUTE 62  
 RAMP A  
 RAMP B**



FILE NAME = ... \D160F72-sht-pmk-11.dgn	USER NAME = akw	DESIGNED - CTB	REVISED -
		DRAWN - CTB	REVISED -
		CHECKED - GAB	REVISED -
		DATE - 5/3/2012	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

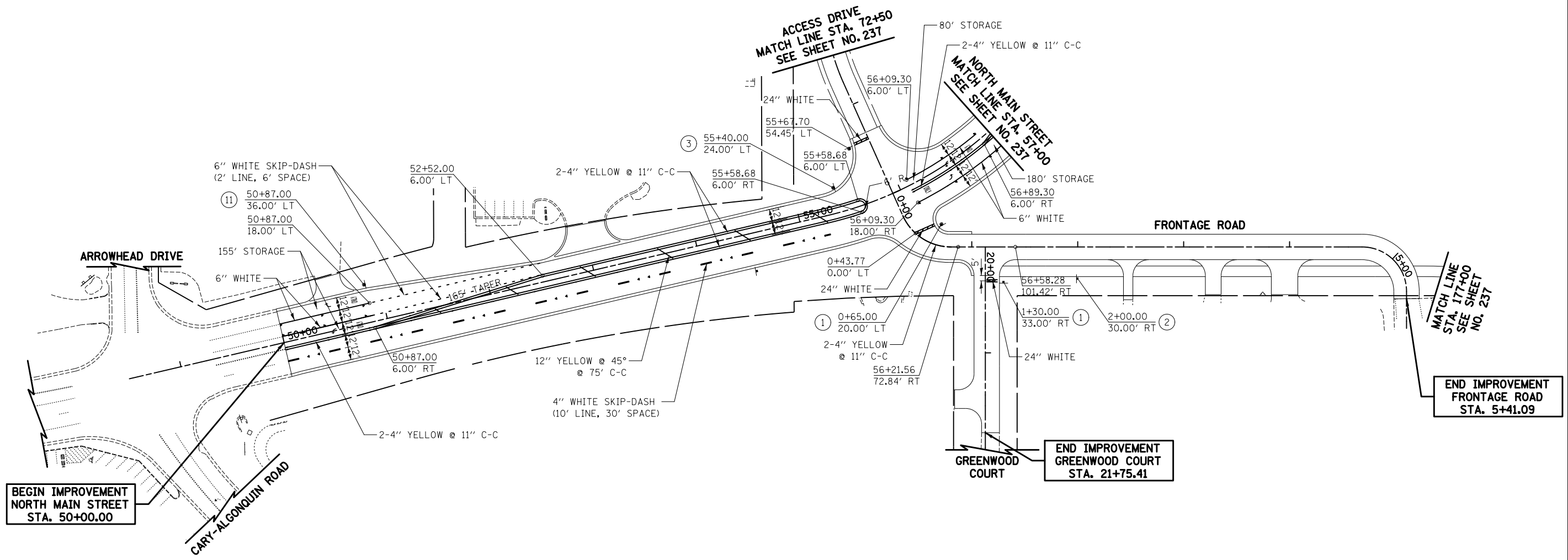
**PAVEMENT MARKING PLAN**

SCALE: 1" = 50' SHEET NO. 11 OF 14 SHEETS STA. 59+50 TO STA. 68+14.20

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	241
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**LEGEND**

- ◀ ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKER
- ◀ ONE-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKER
- ◆ TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKER



NOTE:  
 -ALL PERMANENT PAVEMENT MARKINGS ON HMA SURFACES SHALL BE THERMOPLASTIC  
 -ALL PERMANENT PAVEMENT MARKINGS ON CONCRETE SURFACES SHALL BE POLYUREA, TYPE 1  
 -ALL PERMANENT PAVEMENT MARKINGS ON MCCD TRAIL AND PARKING LOTS SHALL BE PAINT

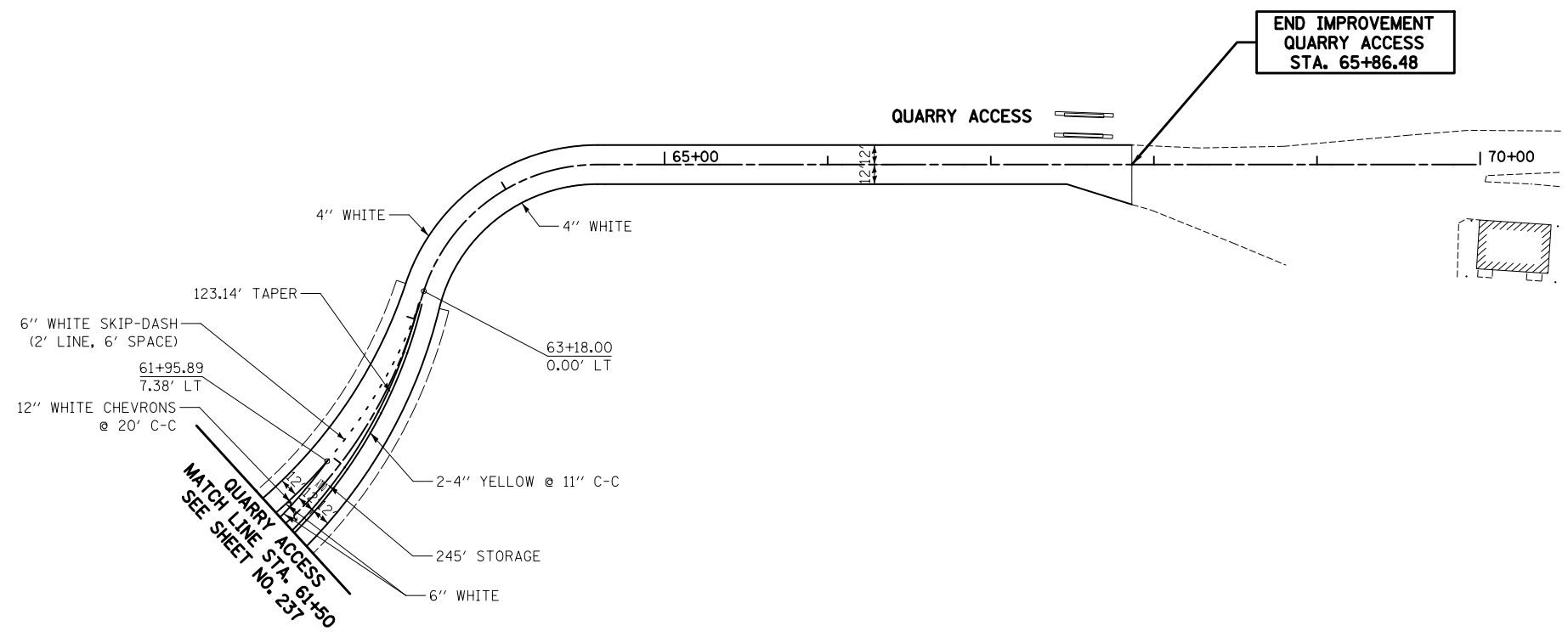
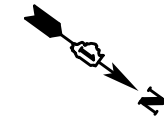
**NORTH MAIN STREET  
 FRONTAGE ROAD  
 GREENWOOD COURT**



FILE NAME = ... \D160F72-shr-pmk-12.dgn	USER NAME = akw	DESIGNED - CTB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING PLAN</b>			O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / 1in.	CHECKED - GAB	REVISED -					0003	18A-2	MCHENRY	825	242
PLOT DATE = 5/2/2012	DATE = 5/3/2012	REVISED -		SCALE: 1" = 50'	SHEET NO. 12 OF 14 SHEETS	STA. 50+00	TO STA. 57+00	CONTRACT NO. 60F72				
								FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**LEGEND**

- < ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKER
- ◀ ONE-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKER
- ◆ TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKER



NOTE:  
 -ALL PERMANENT PAVEMENT MARKINGS ON HMA SURFACES SHALL BE THERMOPLASTIC  
 -ALL PERMANENT PAVEMENT MARKINGS ON CONCRETE SURFACES SHALL BE POLYUREA, TYPE 1  
 -ALL PERMANENT PAVEMENT MARKINGS ON MCCD TRAIL AND PARKING LOTS SHALL BE PAINT



**QUARRY ACCESS**

FILE NAME = ... \D160F72-sht-pmk-13.dgn	USER NAME = okw	DESIGNED - CTB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING PLAN</b>			O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / 1in.	CHECKED - GAB	REVISED -					0003	18A-2	MCHENRY	825	243
PLOT DATE = 5/2/2012	DATE - 5/3/2012	REVISED -		SCALE: 1" = 50'	SHEET NO. 13 OF 14 SHEETS	STA. 61+50	TO STA. 67+86.48	CONTRACT NO. 60F72				
								FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				

MCCD  
RAILROAD ST. PRAIRIE PATH  
MATCH LINE  
STA. 300+75  
SEE SHEET  
NO. 232

4" WHITE  
(TYP)

4" YELLOW

END IMPROVEMENT  
RAILROAD STREET  
STA. 303+98.02

RAILROAD STREET

JEFFERSON  
STREET

MCCD PRAIRIE PATH

MATCH LINE STA. 9+00

(41) 25+79.01  
9.02' LT

END IMPROVEMENT  
MCCD PRAIRIE PATH  
STA. 26+13.88

4" YELLOW

MCCD PRAIRIE PATH

MATCH LINE STA. 9+00

1+10+00

(41) 12+81.00  
9.00' RT

4" YELLOW

ILLINOIS ROUTE 31

1+10+00

1+15+00

CRYSTAL CREEK

ILLINOIS ROUTE 31

NOTE:  
-ALL PERMANENT PAVEMENT MARKINGS ON HMA SURFACES SHALL BE THERMOPLASTIC  
-ALL PERMANENT PAVEMENT MARKINGS ON CONCRETE SURFACES SHALL BE POLYUREA, TYPE 1  
-ALL PERMANENT PAVEMENT MARKINGS ON MCCD TRAIL AND PARKING LOTS SHALL BE PAINT

RAILROAD STREET  
MCCD PRAIRIE PATH



FILE NAME =  
... \D160F72-shr-pmk-14.dgn

USER NAME = akw  
PLOT SCALE = 100.0000' / in.  
PLOT DATE = 5/2/2012

DESIGNED - CTB  
DRAWN - CTB  
CHECKED - GAB  
DATE - 5/3/2012

REVISED -  
REVISED -  
REVISED -  
REVISED -











STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

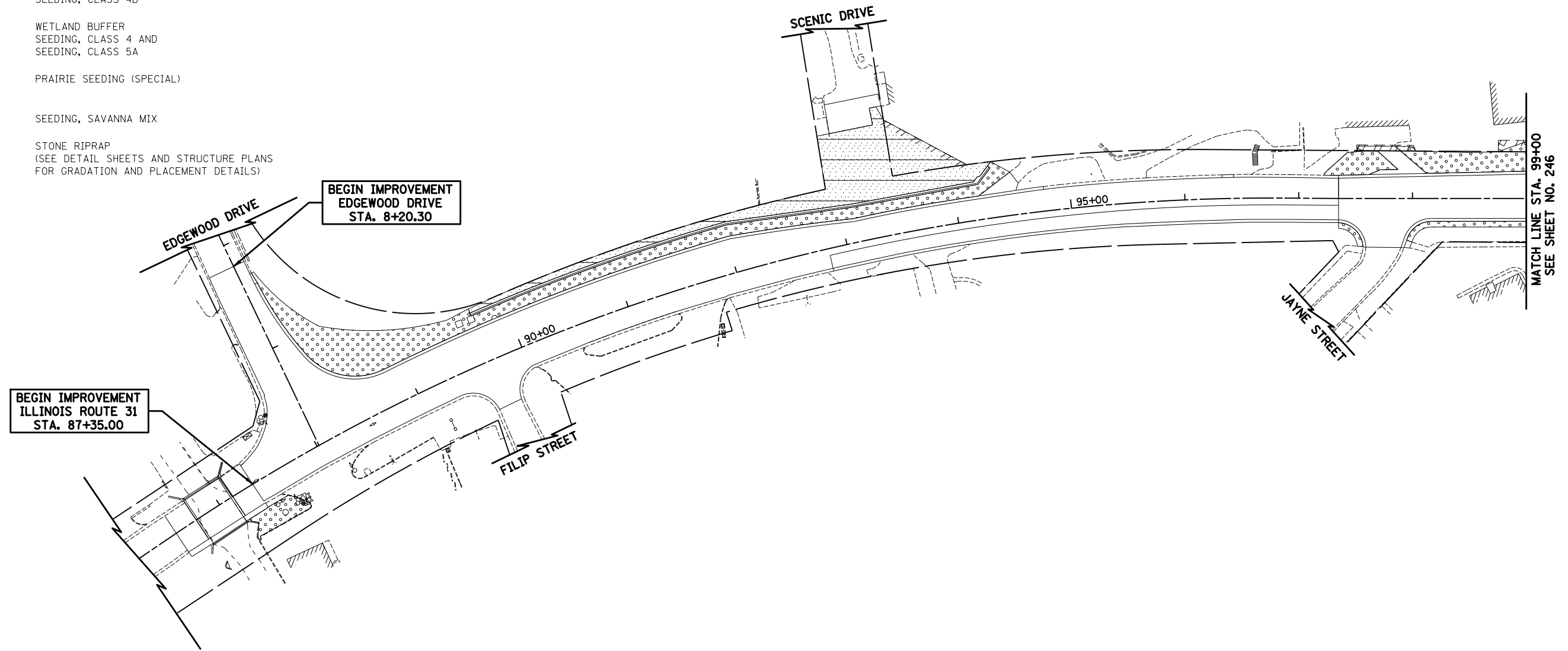
PAVEMENT MARKING PLAN

SCALE: 1" = 50' SHEET NO. 14 OF 14 SHEETS STA. 3+00 TO STA. 26+13.88

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	244
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**LEGEND**

-  SEEDING, CLASS 1
-  SEEDING, CLASS 1B
-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4
-  SEEDING, CLASS 4A
-  SEEDING, CLASS 4B
-  WETLAND BUFFER  
SEEDING, CLASS 4 AND  
SEEDING, CLASS 5A
-  PRAIRIE SEEDING (SPECIAL)
-  SEEDING, SAVANNA MIX
-  STONE RIPRAP  
(SEE DETAIL SHEETS AND STRUCTURE PLANS  
FOR GRADATION AND PLACEMENT DETAILS)



NOTE: LIMITS OF SEEDING SHALL ALSO INCLUDE TOPSOIL FURNISH AND PLACE, 4"

ILLINOIS ROUTE 31  
EDGEWOOD DRIVE



FILE NAME = ...\\D160F72-sht-landscp-01.dgn	USER NAME = akw	DESIGNED - CTB	REVISED -
		DRAWN - CTB	REVISED -
	PLOT SCALE = 100.0000' / 1" =	CHECKED - GAB	REVISED -
	PLOT DATE = 5/2/2012	DATE - 5/3/2012	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION











LANDSCAPING PLAN

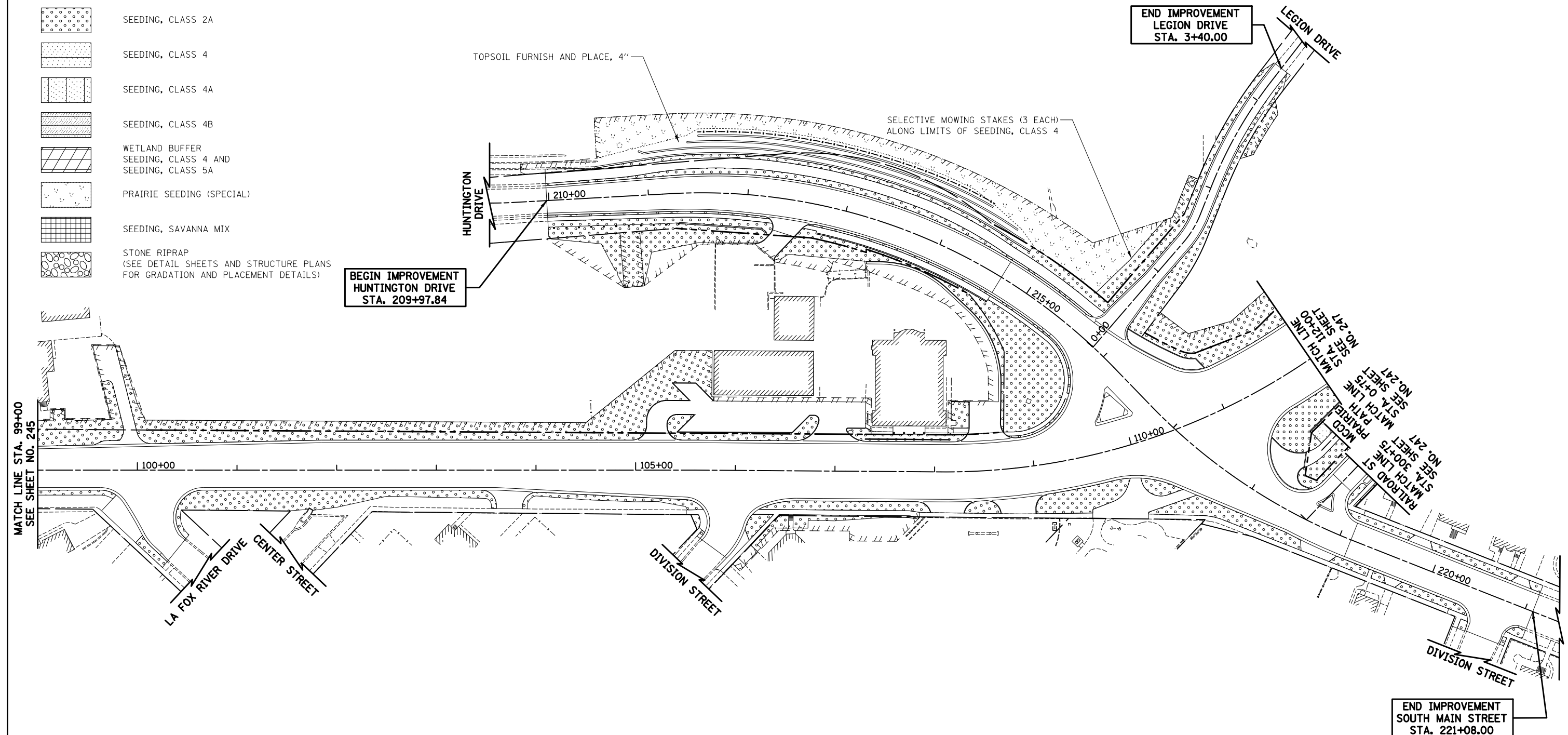
SCALE: 1" = 50' SHEET NO. 1 OF 18 SHEETS STA. 87+35 TO STA. 99+00

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	245
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**LEGEND**

-  SEEDING, CLASS 1
-  SEEDING, CLASS 1B
-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4
-  SEEDING, CLASS 4A
-  SEEDING, CLASS 4B
-  WETLAND BUFFER  
SEEDING, CLASS 4 AND  
SEEDING, CLASS 5A
-  PRAIRIE SEEDING (SPECIAL)
-  SEEDING, SAVANNA MIX
-  STONE RIPRAP  
(SEE DETAIL SHEETS AND STRUCTURE PLANS  
FOR GRADATION AND PLACEMENT DETAILS)



NOTE: LIMITS OF SEEDING SHALL ALSO INCLUDE TOPSOIL FURNISH AND PLACE, 4"

ILLINOIS ROUTE 31  
HUNTINGTON DRIVE  
LEGION DRIVE  
SOUTH MAIN STREET



FILE NAME =  
... \D160F72-sht-1ndscp-02.dgn

USER NAME = akw  
PLOT SCALE = 100.0000' / 1in.  
PLOT DATE = 5/2/2012

DESIGNED - CTB  
DRAWN - CTB  
CHECKED - GAB  
DATE - 5/3/2012

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

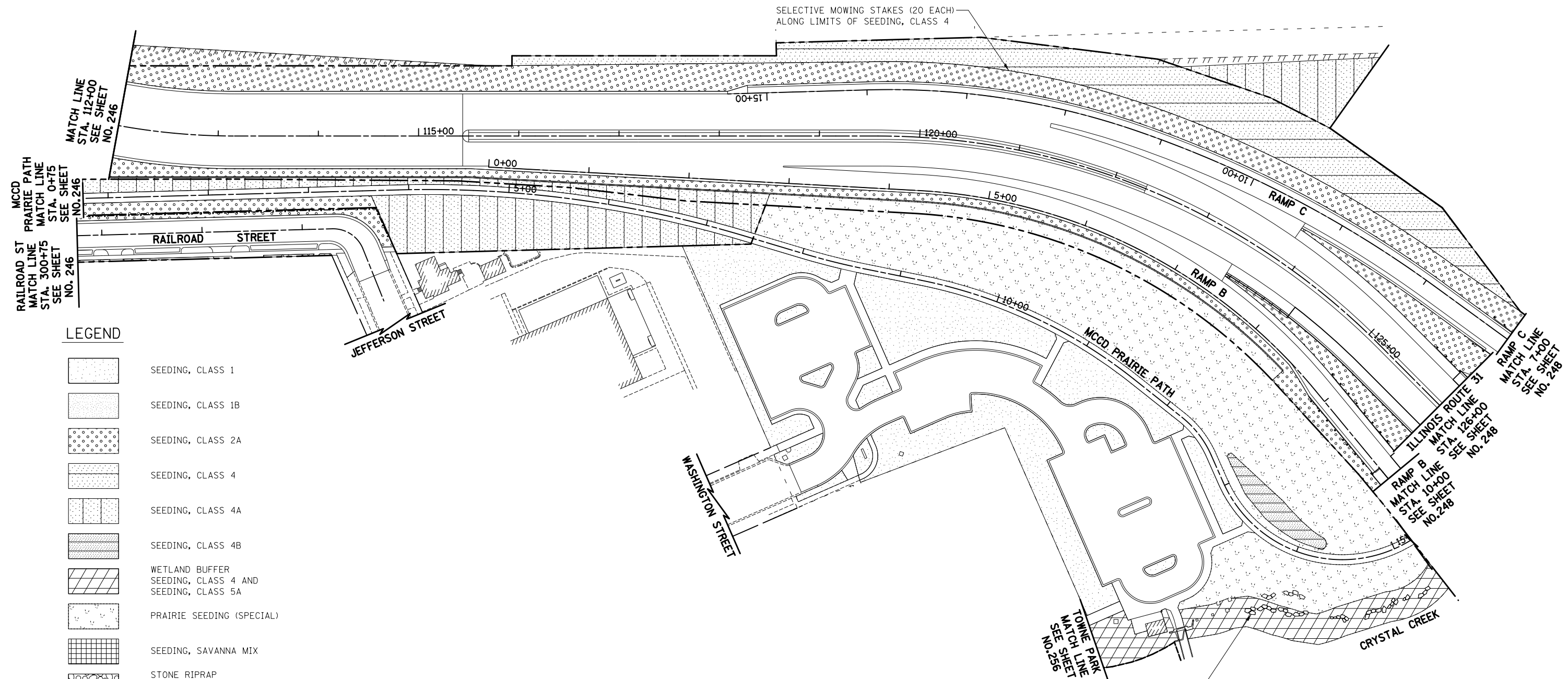
LANDSCAPING PLAN

SCALE: 1" = 50' SHEET NO. 2 OF 18 SHEETS STA. 99+00 TO STA. 112+00

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	246
CONTRACT NO. 60F72			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



SELECTIVE MOWING STAKES (20 EACH)  
ALONG LIMITS OF SEEDING, CLASS 4



**LEGEND**

- SEEDING, CLASS 1
- SEEDING, CLASS 1B
- SEEDING, CLASS 2A
- SEEDING, CLASS 4
- SEEDING, CLASS 4A
- SEEDING, CLASS 4B
- WETLAND BUFFER  
SEEDING, CLASS 4 AND  
SEEDING, CLASS 5A
- PRAIRIE SEEDING (SPECIAL)
- SEEDING, SAVANNA MIX
- STONE RIPRAP  
(SEE DETAIL SHEETS AND STRUCTURE PLANS  
FOR GRADATION AND PLACEMENT DETAILS)

NOTE: LIMITS OF SEEDING SHALL ALSO INCLUDE TOPSOIL FURNISH AND PLACE, 4"

15 SQ FT EACH  
STONE OUTCROPPING,  
(TYP.)

**ILLINOIS ROUTE 31  
RAMP B  
RAMP C  
MCD PRAIRIE PATH  
RAILROAD STREET**



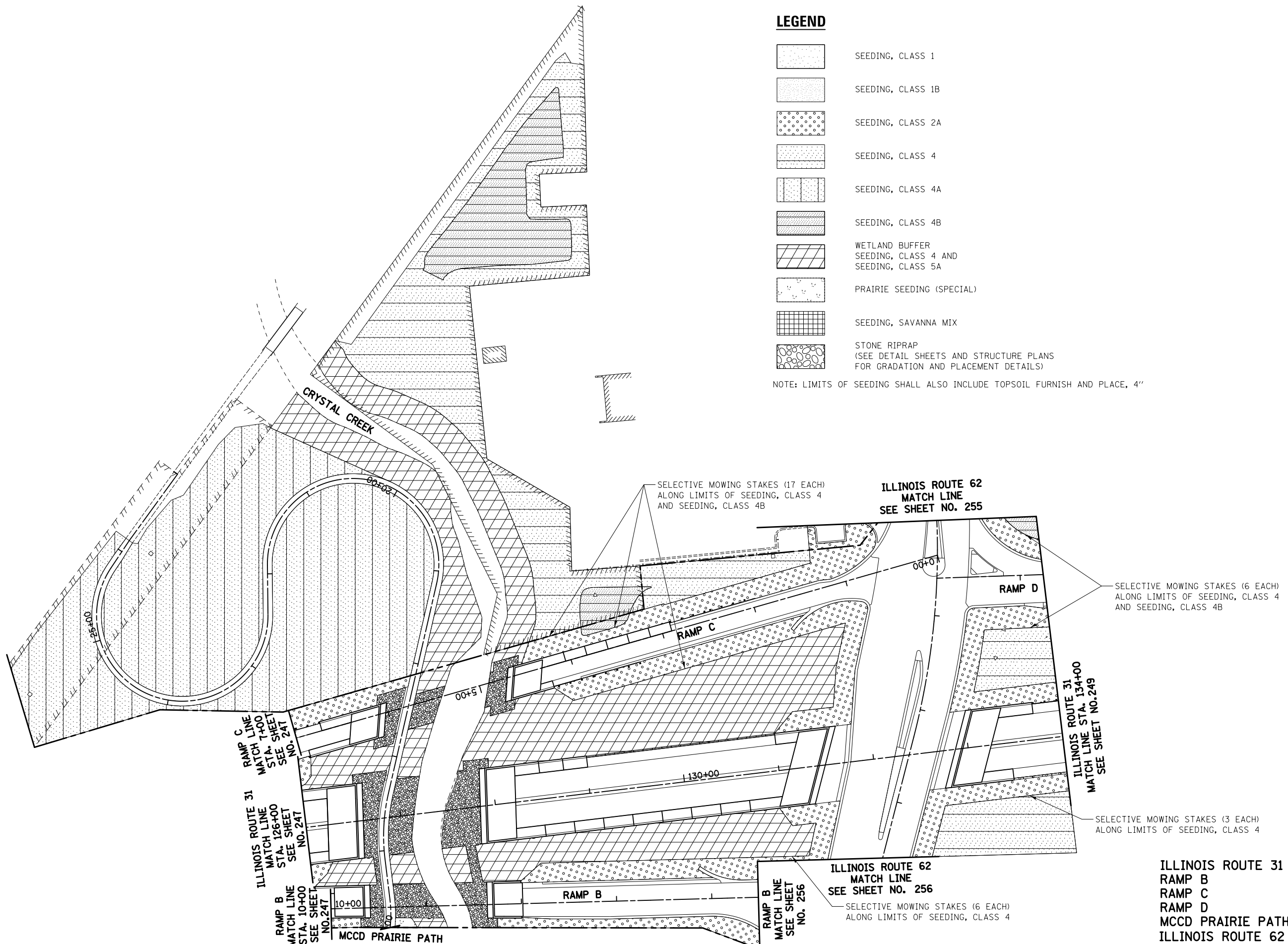
FILE NAME = ...\\D160F72-sht-1ndscp-03.dgn	USER NAME = akw	DESIGNED - CTB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LANDSCAPING PLAN</b>	O.R. RTE. 0003	SECTION 18A-2	COUNTY MCHENRY	TOTAL SHEETS 825	SHEET NO. 247
PLOT SCALE = 100.0000' / 1" =		CHECKED - GAB	REVISED -	SCALE: 1" = 50'		SHEET NO. 3 OF 18 SHEETS		STA. 112+00 TO STA. 126+00		
PLOT DATE = 5/2/2012		DATE - 5/3/2012	REVISED -	CONTRACT NO. 60F72		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**LEGEND**

- SEEDING, CLASS 1
- SEEDING, CLASS 1B
- SEEDING, CLASS 2A
- SEEDING, CLASS 4
- SEEDING, CLASS 4A
- SEEDING, CLASS 4B
- WETLAND BUFFER  
SEEDING, CLASS 4 AND  
SEEDING, CLASS 5A
- PRAIRIE SEEDING (SPECIAL)
- SEEDING, SAVANNA MIX
- STONE RIPRAP  
(SEE DETAIL SHEETS AND STRUCTURE PLANS  
FOR GRADATION AND PLACEMENT DETAILS)

NOTE: LIMITS OF SEEDING SHALL ALSO INCLUDE TOPSOIL FURNISH AND PLACE, 4"



SELECTIVE MOWING STAKES (17 EACH)  
ALONG LIMITS OF SEEDING, CLASS 4  
AND SEEDING, CLASS 4B

ILLINOIS ROUTE 62  
MATCH LINE  
SEE SHEET NO. 255

SELECTIVE MOWING STAKES (6 EACH)  
ALONG LIMITS OF SEEDING, CLASS 4  
AND SEEDING, CLASS 4B

RAMP C  
MATCH LINE  
STA. 11+00  
SEE SHEET  
NO. 241

ILLINOIS ROUTE 31  
MATCH LINE  
STA. 126+00  
SEE SHEET  
NO. 241

RAMP B  
MATCH LINE  
STA. 10+00  
SEE SHEET  
NO. 241

RAMP B  
MATCH LINE  
STA. 10+00  
SEE SHEET  
NO. 241

RAMP B  
MATCH LINE  
STA. 10+00  
SEE SHEET  
NO. 256

ILLINOIS ROUTE 62  
MATCH LINE  
SEE SHEET NO. 256

SELECTIVE MOWING STAKES (6 EACH)  
ALONG LIMITS OF SEEDING, CLASS 4

ILLINOIS ROUTE 31  
MATCH LINE STA. 134+00  
SEE SHEET NO. 249

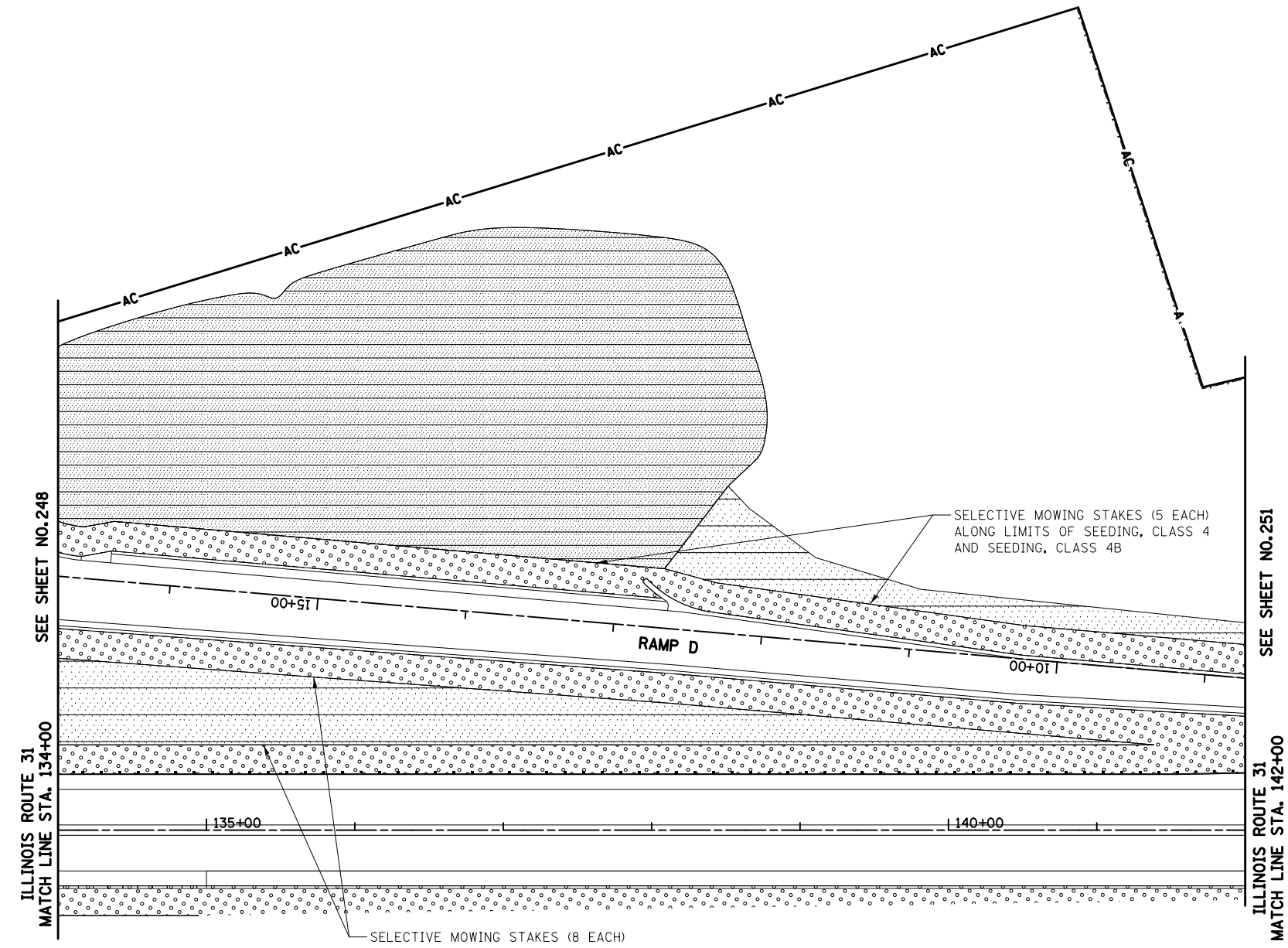
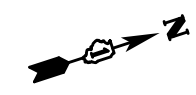
SELECTIVE MOWING STAKES (3 EACH)  
ALONG LIMITS OF SEEDING, CLASS 4

ILLINOIS ROUTE 31  
RAMP B  
RAMP C  
RAMP D  
MCCD PRAIRIE PATH  
ILLINOIS ROUTE 62



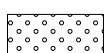
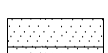
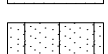
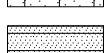
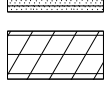
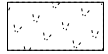

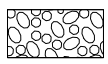


FILE NAME = ... \D160F72-sht-1ndsep-04.dgn	USER NAME = akw	DESIGNED - CTB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LANDSCAPING PLAN</b>	O.R. RTE. 0003	SECTION 18A-2	COUNTY MCHENRY	TOTAL SHEETS 825	SHEET NO. 248
PLOT SCALE = 100.0000' / 1in.		CHECKED - GAB	REVISED -	SCALE: 1" = 50'		SHEET NO. 4 OF 18 SHEETS		STA. 126+00 TO STA. 134+00		CONTRACT NO. 60F72
PLOT DATE = 5/2/2012		DATE - 5/3/2012	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						





**LEGEND**

-  SEEDING, CLASS 1
-  SEEDING, CLASS 1B
-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4
-  SEEDING, CLASS 4A
-  SEEDING, CLASS 4B
-  WETLAND BUFFER  
SEEDING, CLASS 4 AND  
SEEDING, CLASS 5A
-  PRAIRIE SEEDING (SPECIAL)
-  SEEDING, SAVANNA MIX
-  STONE RIPRAP  
(SEE DETAIL SHEETS AND STRUCTURE PLANS  
FOR GRADATION AND PLACEMENT DETAILS)

NOTE: LIMITS OF SEEDING SHALL ALSO INCLUDE TOPSOIL FURNISH AND PLACE, 4"

**ILLINOIS ROUTE 31  
RAMP D**



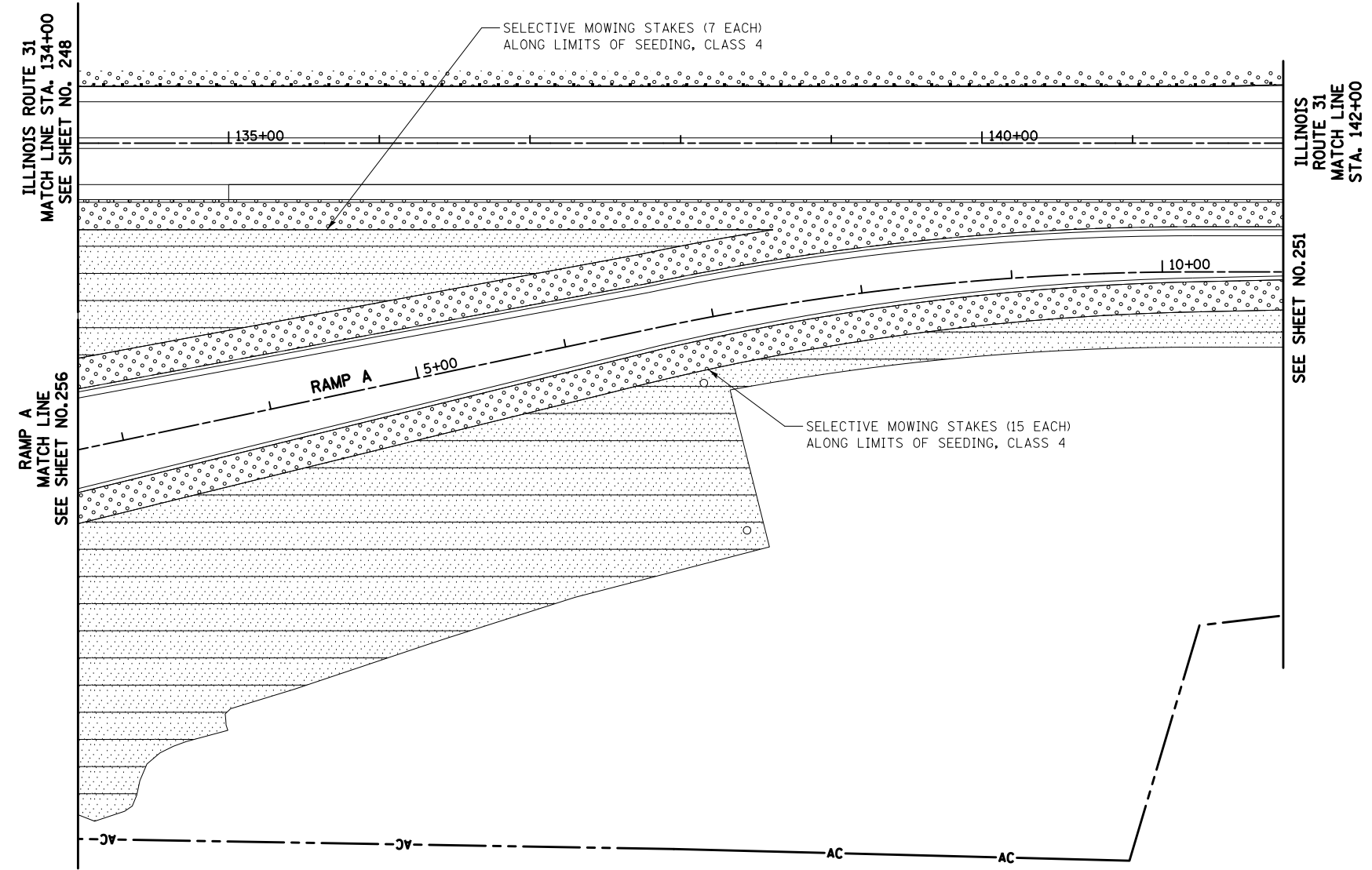
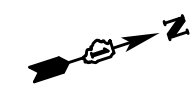
FILE NAME = ...\\D160F72-sht-landscp-05.dgn	USER NAME = okw	DESIGNED - CTB	REVISED -
		DRAWN - CTB	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 5/2/2012	DATE - 5/3/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



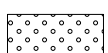
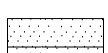
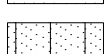
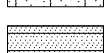

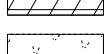
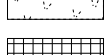

**LANDSCAPING PLAN**

SCALE: 1" = 50' SHEET NO. 5 OF 18 SHEETS STA. 134+00 TO STA. 142+00

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	249
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**LEGEND**

-  SEEDING, CLASS 1
-  SEEDING, CLASS 1B
-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4
-  SEEDING, CLASS 4A
-  SEEDING, CLASS 4B
-  WETLAND BUFFER  
SEEDING, CLASS 4 AND  
SEEDING, CLASS 5A
-  PRAIRIE SEEDING (SPECIAL)
-  SEEDING, SAVANNA MIX
-  STONE RIPRAP  
(SEE DETAIL SHEETS AND STRUCTURE PLANS  
FOR GRADATION AND PLACEMENT DETAILS)

NOTE: LIMITS OF SEEDING SHALL ALSO INCLUDE TOPSOIL FURNISH AND PLACE, 4"

**ILLINOIS ROUTE 31  
RAMP A**



FILE NAME = ...\\D160F72-sht-landscp-06.dgn	USER NAME = okw	DESIGNED - CTB	REVISED -
		DRAWN - CTB	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 5/2/2012	DATE - 5/3/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN**

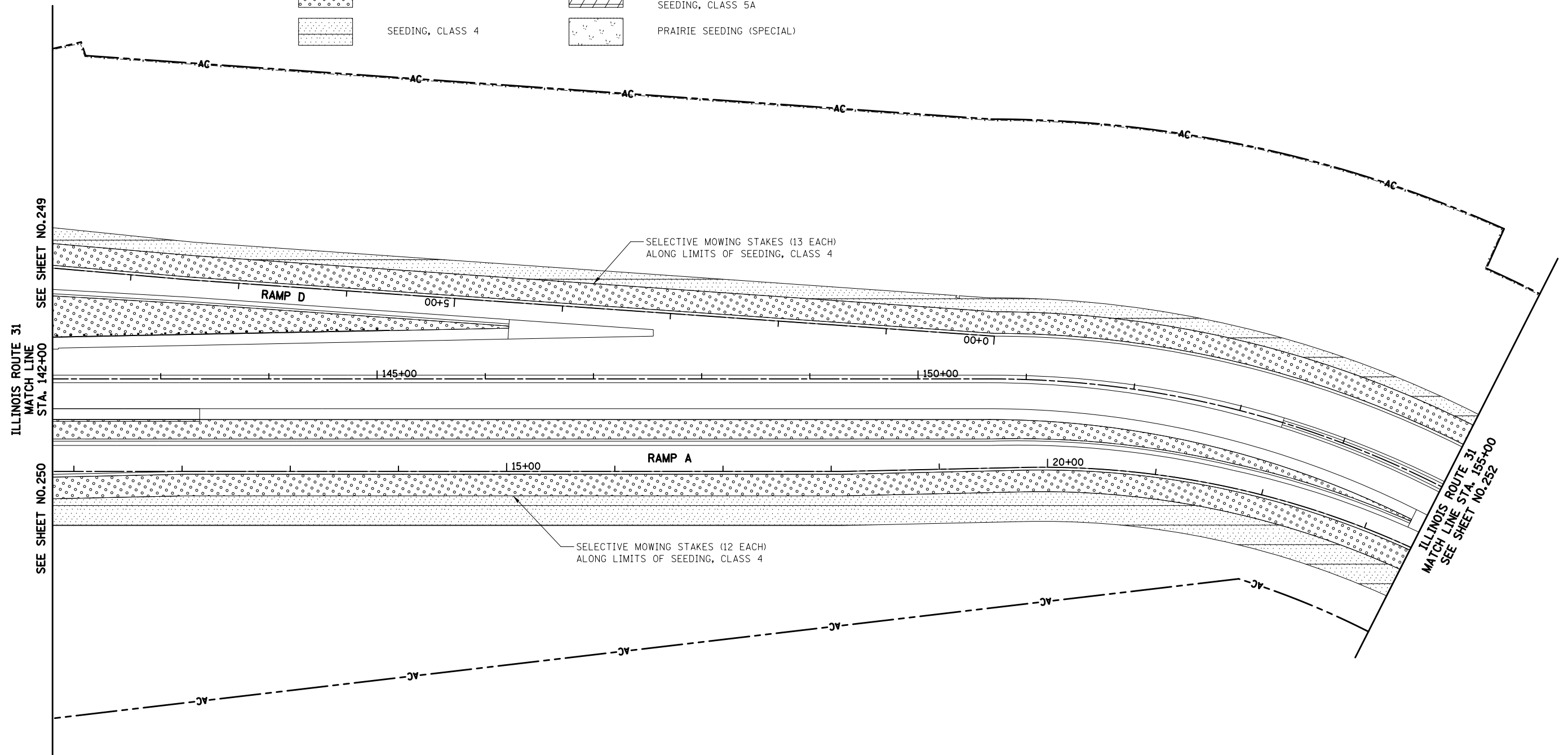
SCALE: 1" = 50' SHEET NO. 6 OF 18 SHEETS STA. 134+00 TO STA. 142+00

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	250
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**LEGEND**

- |  |                   |  |   |  |  |
|--|-------------------|--|---|--|--|
|  | SEEDING, CLASS 1  |  | SEEDING, CLASS 4A   |  | SEEDING, SAVANNA MIX   |
|  | SEEDING, CLASS 1B |  | SEEDING, CLASS 4B   |  | STONE RIPRAP<br>(SEE DETAIL SHEETS AND STRUCTURE PLANS<br>FOR GRADATION AND PLACEMENT DETAILS) |
|  | SEEDING, CLASS 2A |  | WETLAND BUFFER<br>SEEDING, CLASS 4 AND<br>SEEDING, CLASS 5A |  |  |
|  | SEEDING, CLASS 4  |  | PRAIRIE SEEDING (SPECIAL)                                   |  |  |



SELECTIVE MOWING STAKES (13 EACH)  
ALONG LIMITS OF SEEDING, CLASS 4

SELECTIVE MOWING STAKES (12 EACH)  
ALONG LIMITS OF SEEDING, CLASS 4

NOTE: LIMITS OF SEEDING SHALL ALSO INCLUDE TOPSOIL FURNISH AND PLACE, 4"

**ILLINOIS ROUTE 31  
RAMP A  
RAMP D**



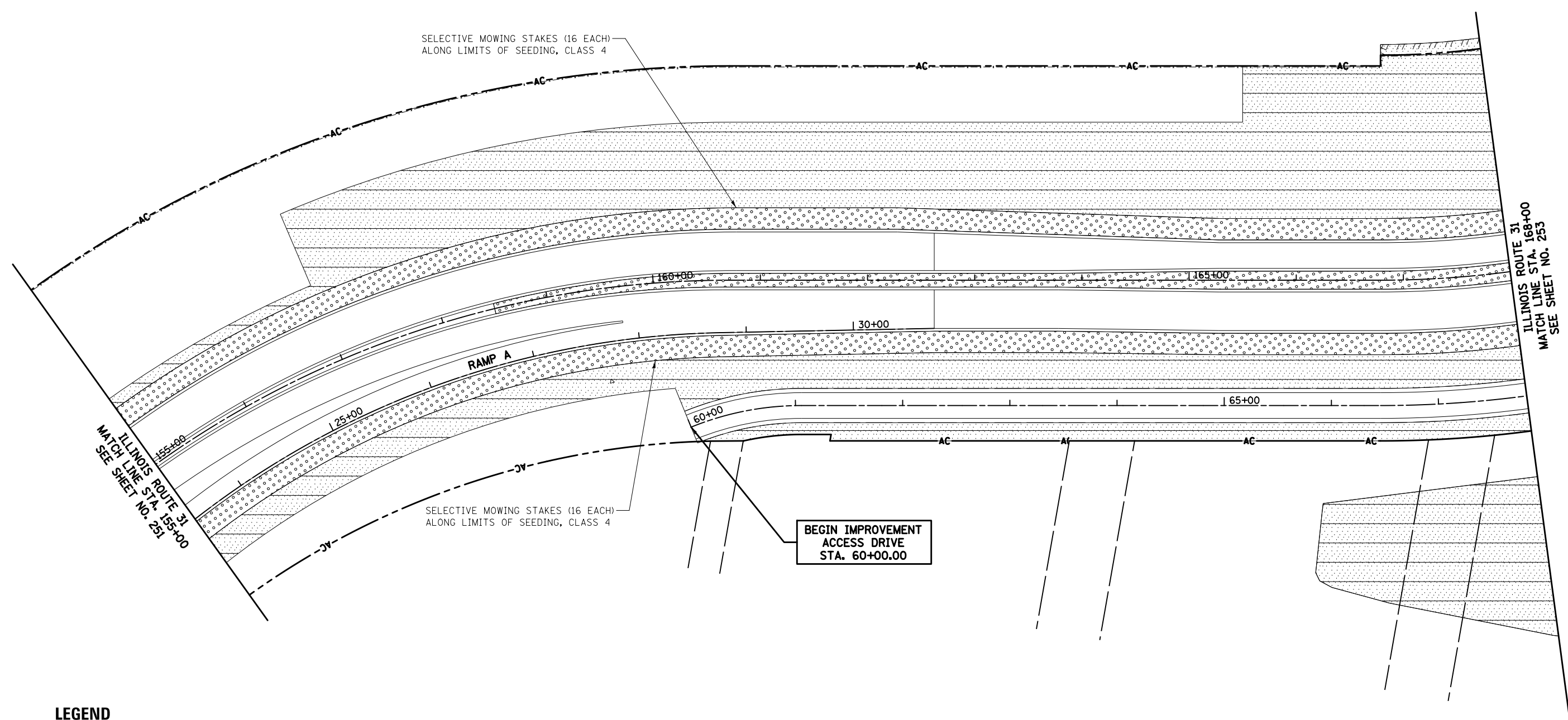
FILE NAME = ...\\D160F72-sht-1ndscp-07.dgn	USER NAME = okw	DESIGNED - CTB	REVISED -
		DRAWN - CTB	REVISED -
		CHECKED - GAB	REVISED -
		DATE - 5/3/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN**

SCALE: 1" = 50' SHEET NO. 7 OF 18 SHEETS STA. 142+00 TO STA. 155+00

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	251
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**LEGEND**

- |  |                   |  |  |
|--|-------------------|--|--|
|  | SEEDING, CLASS 1  |  | SEEDING, CLASS 4B  |
|  | SEEDING, CLASS 1B |  | WETLAND BUFFER<br>SEEDING, CLASS 4 AND<br>SEEDING, CLASS 5A                                    |
|  | SEEDING, CLASS 2A |  | PRAIRIE SEEDING (SPECIAL)  |
|  | SEEDING, CLASS 4  |  | SEEDING, SAVANNA MIX   |
|  | SEEDING, CLASS 4A |  | STONE RIPRAP<br>(SEE DETAIL SHEETS AND STRUCTURE PLANS<br>FOR GRADATION AND PLACEMENT DETAILS) |

NOTE: LIMITS OF SEEDING SHALL ALSO INCLUDE TOPSOIL FURNISH AND PLACE, 4"

**ILLINOIS ROUTE 31  
RAMP A**



FILE NAME = ... \D160F72-sht-1ndscp-08.dgn	USER NAME = akw	DESIGNED - CTB	REVISED -
		DRAWN - CTB	REVISED -
	PLOT SCALE = 100.0000' / 1" =	CHECKED - GAB	REVISED -
	PLOT DATE = 5/2/2012	DATE - 5/3/2012	REVISED -











**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN**

SCALE: 1" = 50' SHEET NO. 8 OF 18 SHEETS STA. 153+00 TO STA. 166+00

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	252
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60F72	

**LEGEND**

-  SEEDING, CLASS 1
-  SEEDING, CLASS 1B
-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4
-  SEEDING, CLASS 4A
-  SEEDING, CLASS 4B
-  WETLAND BUFFER SEEDING, CLASS 4 AND SEEDING, CLASS 5A
-  PRAIRIE SEEDING (SPECIAL)
-  SEEDING, SAVANNA MIX
-  STONE RIPRAP (SEE DETAIL SHEETS AND STRUCTURE PLANS FOR GRADATION AND PLACEMENT DETAILS)

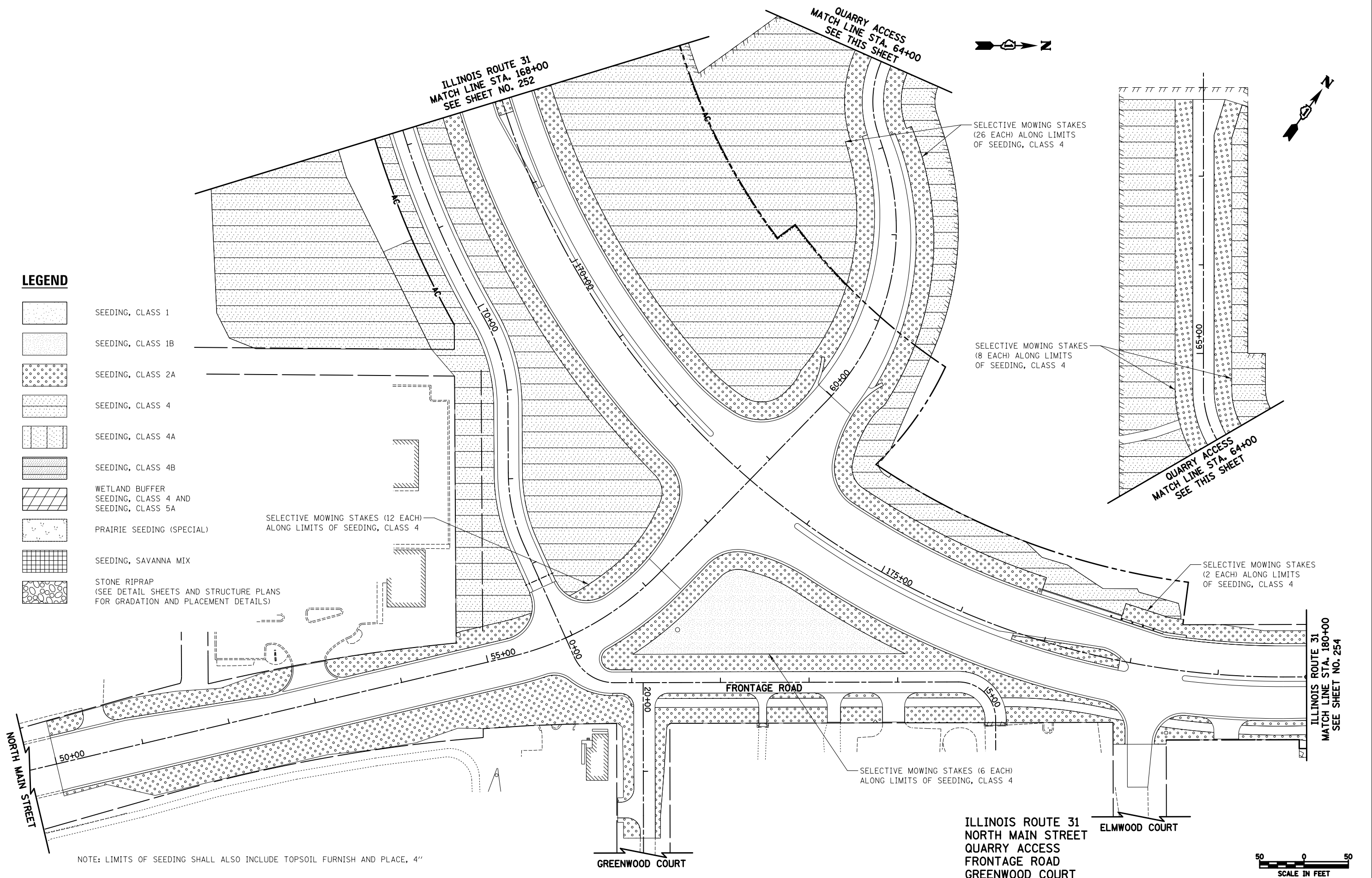
SELECTIVE MOWING STAKES (12 EACH) ALONG LIMITS OF SEEDING, CLASS 4

SELECTIVE MOWING STAKES (26 EACH) ALONG LIMITS OF SEEDING, CLASS 4

SELECTIVE MOWING STAKES (8 EACH) ALONG LIMITS OF SEEDING, CLASS 4

SELECTIVE MOWING STAKES (2 EACH) ALONG LIMITS OF SEEDING, CLASS 4

SELECTIVE MOWING STAKES (6 EACH) ALONG LIMITS OF SEEDING, CLASS 4



NOTE: LIMITS OF SEEDING SHALL ALSO INCLUDE TOPSOIL FURNISH AND PLACE, 4"

ILLINOIS ROUTE 31  
NORTH MAIN STREET  
QUARRY ACCESS  
FRONTAGE ROAD  
GREENWOOD COURT



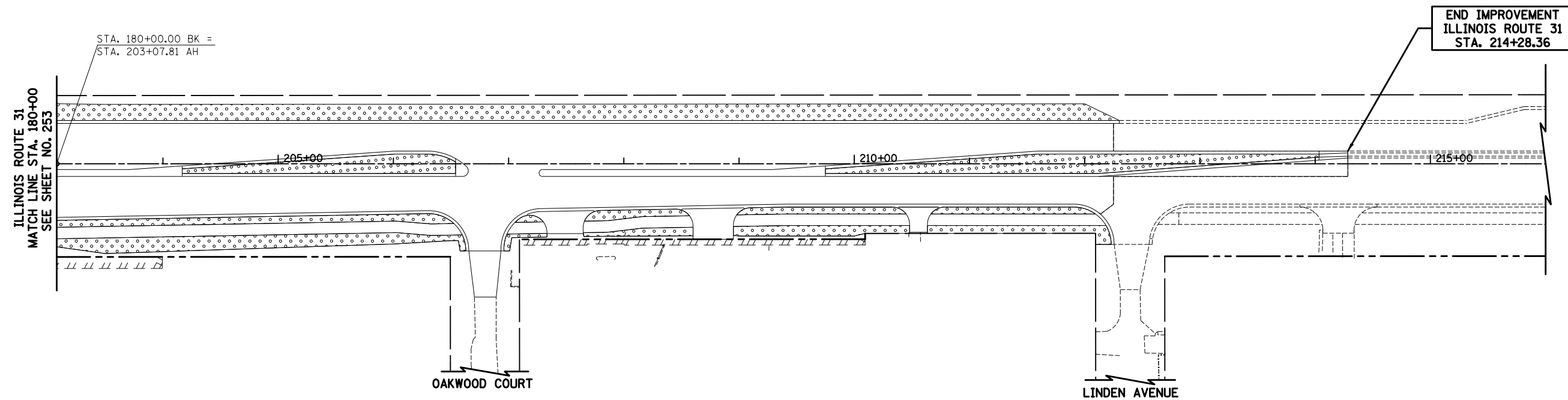
FILE NAME = ...\\D160F72-sht-landscp-09.dgn	USER NAME = akw	DESIGNED - CTB	REVISED -
		DRAWN - CTB	REVISED -
	PLOT SCALE = 100.0000' / 1in.	CHECKED - GAB	REVISED -
	PLOT DATE = 5/2/2012	DATE - 5/3/2012	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN

SCALE: 1" = 50' SHEET NO. 9 OF 18 SHEETS STA. 166+00 TO STA. 180+00

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	253
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**LEGEND**

- |  |                   |  |  |
|--|-------------------|--|--|
|  | SEEDING, CLASS 1  |  | SEEDING, CLASS 4B  |
|  | SEEDING, CLASS 1B |  | WETLAND BUFFER<br>SEEDING, CLASS 4 AND<br>SEEDING, CLASS 5A                                    |
|  | SEEDING, CLASS 2A |  | PRAIRIE SEEDING (SPECIAL)  |
|  | SEEDING, CLASS 4  |  | SEEDING, SAVANNA MIX   |
|  | SEEDING, CLASS 4A |  | STONE RIPRAP<br>(SEE DETAIL SHEETS AND STRUCTURE PLANS<br>FOR GRADATION AND PLACEMENT DETAILS) |

NOTE: LIMITS OF SEEDING SHALL ALSO INCLUDE TOPSOIL FURNISH AND PLACE, 4"



ILLINOIS ROUTE 31

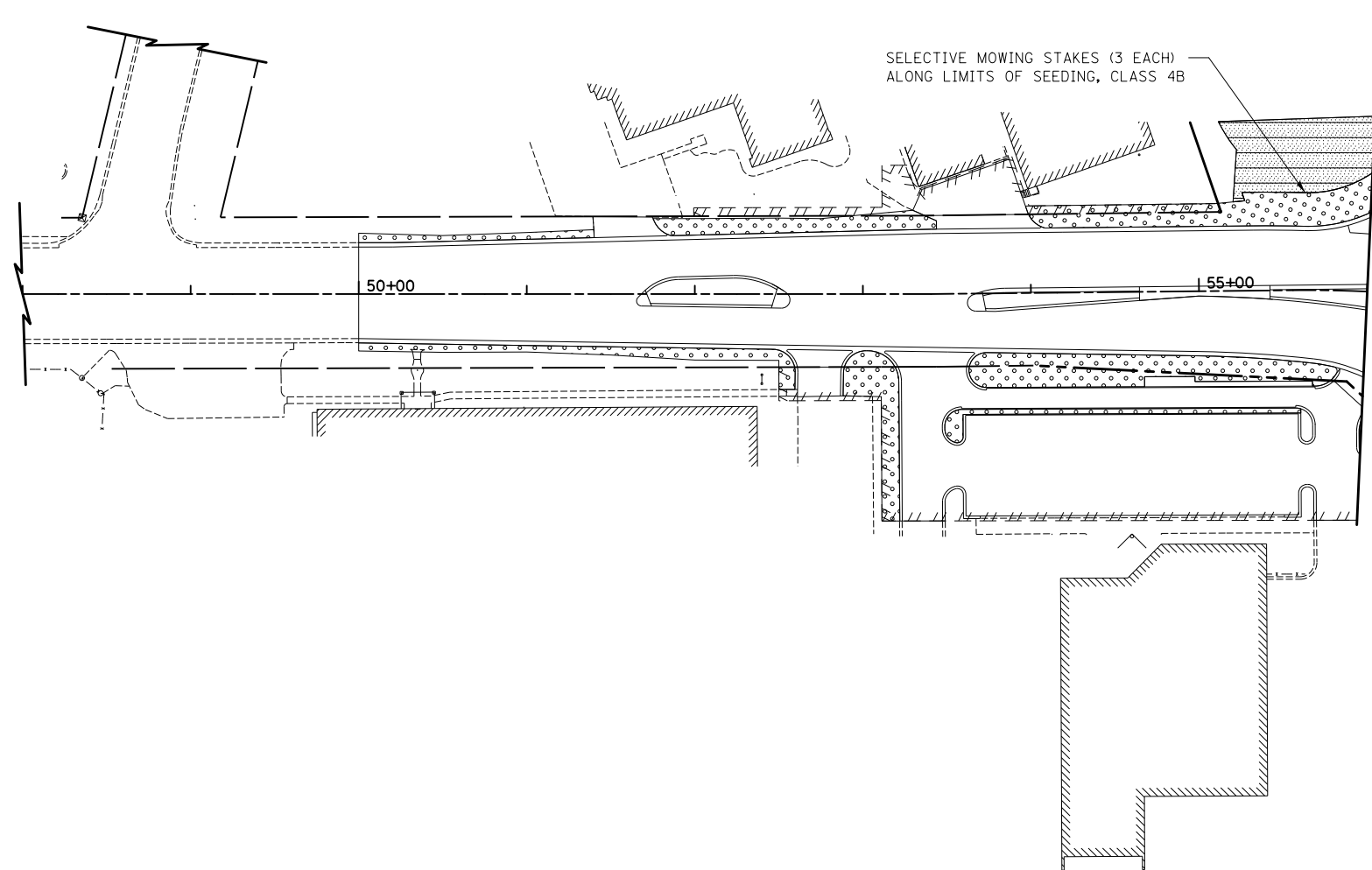
FILE NAME = ...\\D160F72-sht-1ndsep-10.dgn	USER NAME = okw	DESIGNED - CTB	REVISED -
		DRAWN - CTB	REVISED -
	PLOT SCALE = 100.0000' / 1in.	CHECKED - GAB	REVISED -
	PLOT DATE = 5/2/2012	DATE - 5/3/2012	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION











LANDSCAPING PLAN

SCALE: 1" = 50' SHEET NO. 10 OF 18 SHEETS STA. 180+00 TO STA. 216+00

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	254
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**LEGEND**

-  SEEDING, CLASS 1
-  SEEDING, CLASS 1B
-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4
-  SEEDING, CLASS 4A
-  SEEDING, CLASS 4B
-  WETLAND BUFFER  
SEEDING, CLASS 4 AND  
SEEDING, CLASS 5A
-  PRAIRIE SEEDING (SPECIAL)
-  SEEDING, SAVANNA MIX
-  STONE RIPRAP  
(SEE DETAIL SHEETS AND STRUCTURE PLANS  
FOR GRADATION AND PLACEMENT DETAILS)

NOTE: LIMITS OF SEEDING SHALL ALSO INCLUDE TOPSOIL FURNISH AND PLACE, 4"



ILLINOIS ROUTE 62

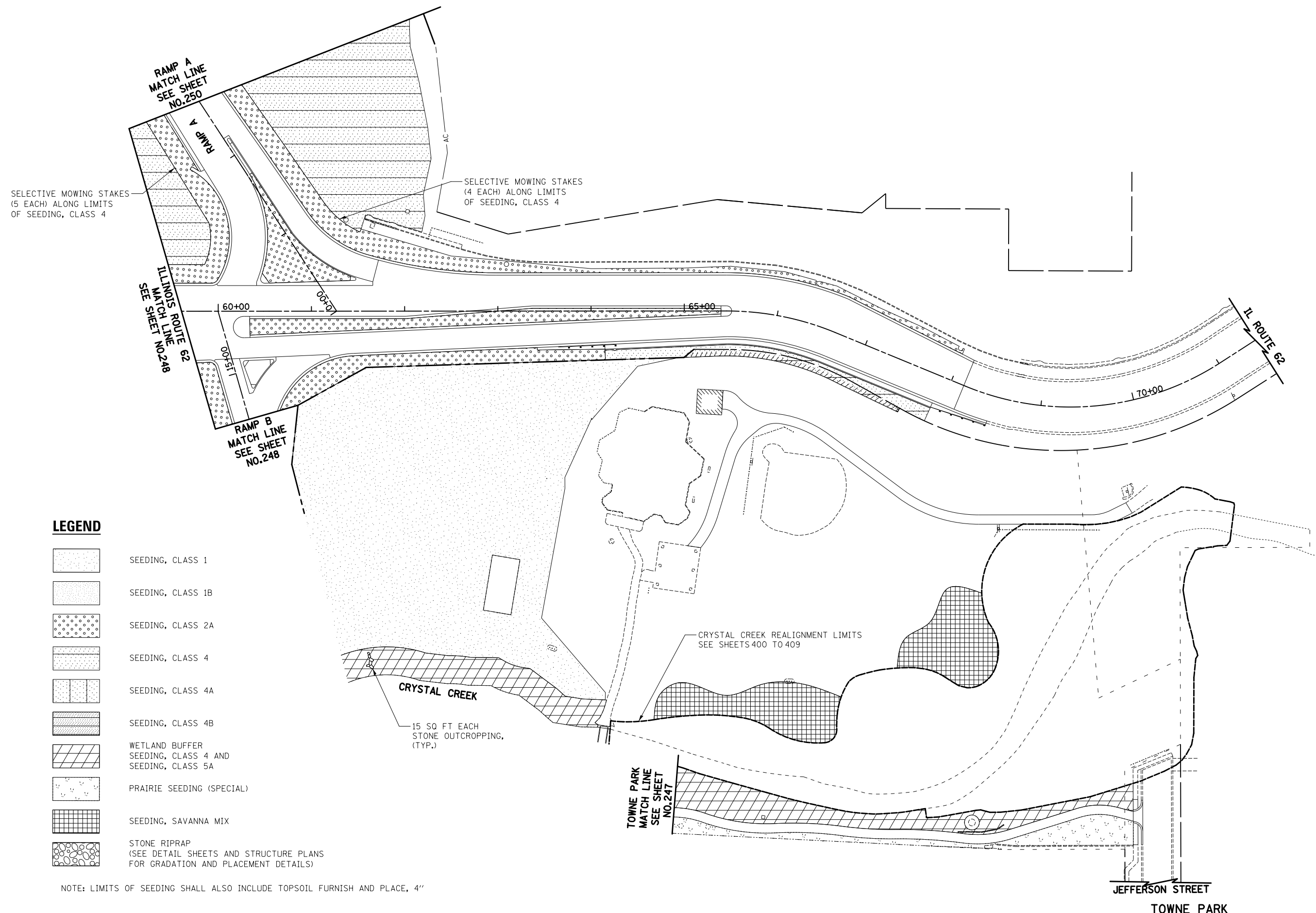
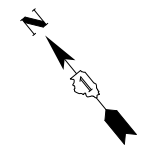
FILE NAME = ...\\D160F72-sht-landscp-11.dgn	USER NAME = okw	DESIGNED - CTB	REVISED -
		DRAWN - CTB	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 5/2/2012	DATE - 5/3/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN**

SCALE: 1" = 50' SHEET NO. 11 OF 18 SHEETS STA. TO STA.

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	255
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**LEGEND**

- SEEDING, CLASS 1
- SEEDING, CLASS 1B
- SEEDING, CLASS 2A
- SEEDING, CLASS 4
- SEEDING, CLASS 4A
- SEEDING, CLASS 4B
- WETLAND BUFFER SEEDING, CLASS 4 AND SEEDING, CLASS 5A
- PRAIRIE SEEDING (SPECIAL)
- SEEDING, SAVANNA MIX
- STONE RIPRAP (SEE DETAIL SHEETS AND STRUCTURE PLANS FOR GRADATION AND PLACEMENT DETAILS)

NOTE: LIMITS OF SEEDING SHALL ALSO INCLUDE TOPSOIL FURNISH AND PLACE, 4"



FILE NAME = ...\\D160F72-sht-1ndscp-12.dgn	USER NAME = akw	DESIGNED - CTB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LANDSCAPING PLAN</b>			O.R. RTE. 0003	SECTION 18A-2	COUNTY MCHENRY	TOTAL SHEETS 825	SHEET NO. 256
	PLOT SCALE = 100.0000' / 1" =	CHECKED - GAB	REVISED -		SCALE: 1" = 50'	SHEET NO. 12 OF 18 SHEETS	STA.	TO STA.	CONTRACT NO. 60F72			
	PLOT DATE = 5/2/2012	DATE - 5/3/2012	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							



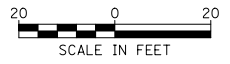
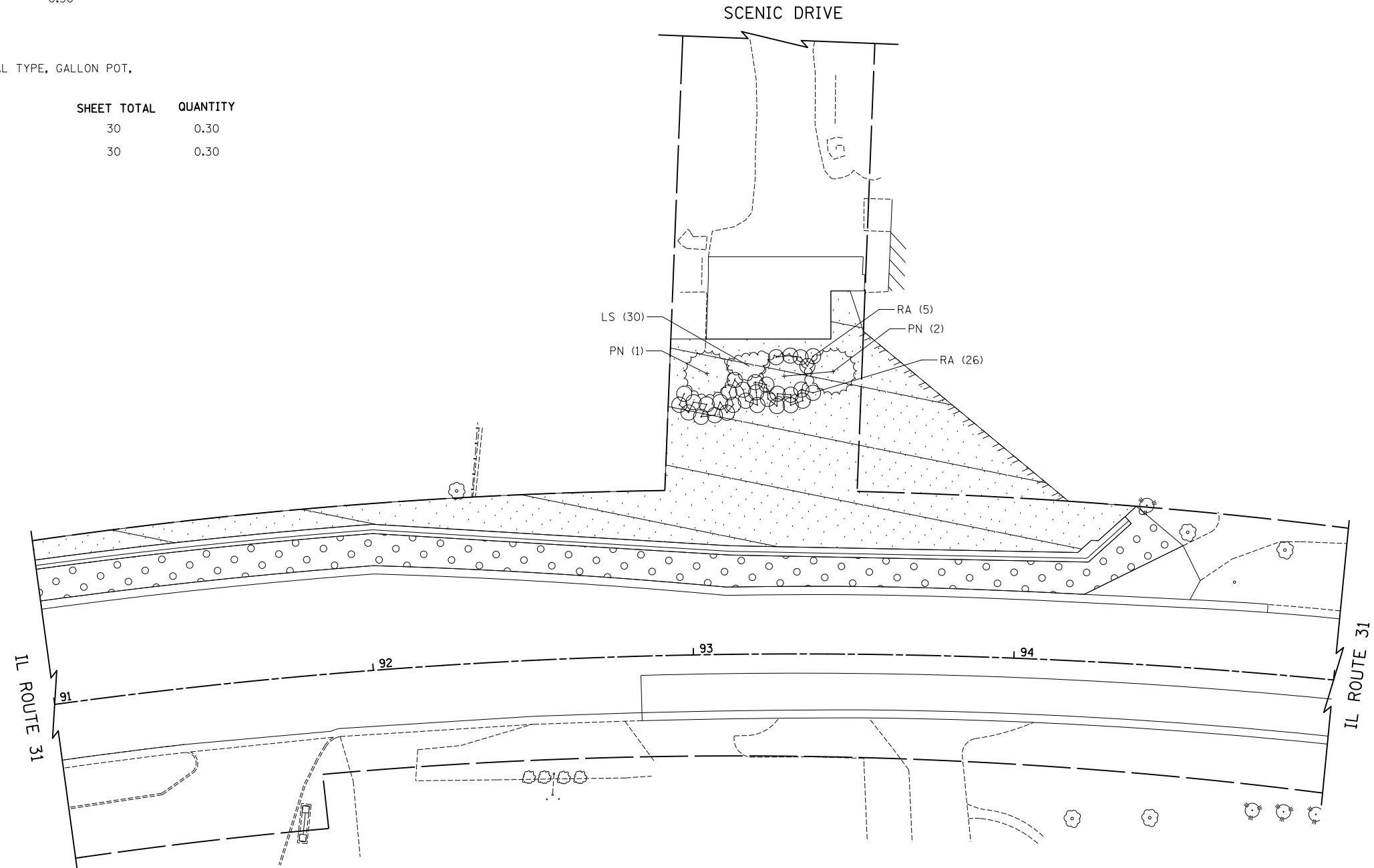


**LEGEND**

ITEM	ABBREVIATION	QUANTITY
RA	S-RHUS AROMA 2'C	31
PN	E-PICEA PUNGENS 6'	3
**	P PL ORNAMENT T GAL P	0.30

\*\* PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT, PAID FOR AS 100 POTS PER UNIT

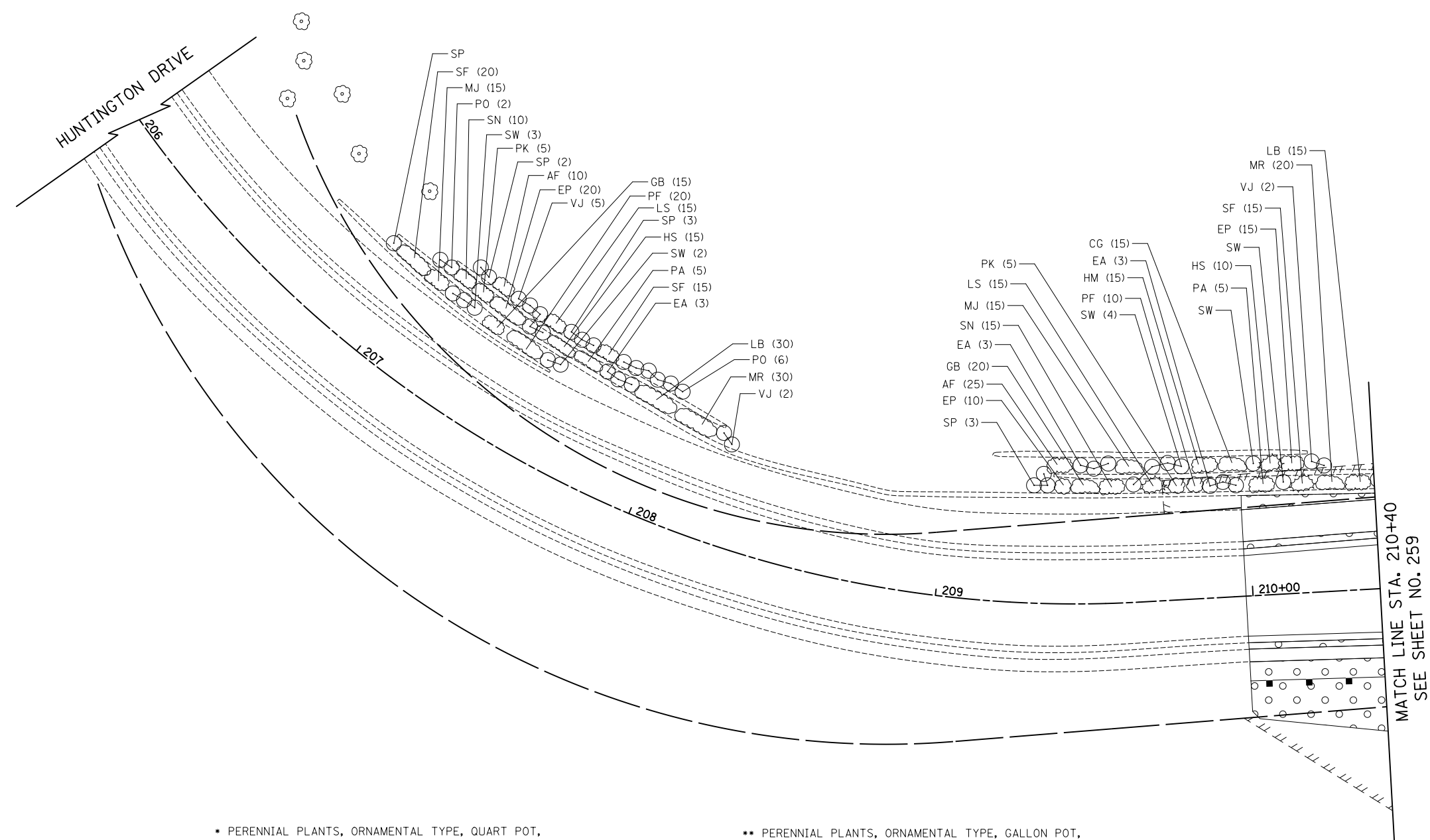
ITEM	DESCRIPTION	SHEET TOTAL	QUANTITY
LS	LIATRIS SPICATA	30	0.30
	TOTAL	30	0.30



**PLANTING DETAILS**

**SCENIC DRIVE**

FILE NAME = ...\\D160F72-sht-landscp-details-01.dgn	USER NAME = akw	DESIGNED - KTK	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LANDSCAPING PLAN</b>			O.R. RTE. 0003	SECTION 18A-2	COUNTY MCHENRY	TOTAL SHEETS 825	SHEET NO. 257
	PLOT SCALE = 40.0000' / in.	CHECKED - KTK	REVISED -		SCALE: 1" = 20'	SHEET NO. 13 OF 18 SHEETS	STA. 91+00	TO STA. 95+00	<b>CONTRACT NO. 60F72</b>			
	PLOT DATE = 5/2/2012	DATE - 5/3/2012	REVISED -		FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT							



MATCH LINE STA. 210+40  
SEE SHEET NO. 259

**LEGEND**

ITEM	ABBREVIATION	QUANTITY
EA	S-EUONYMUS ALATUS 3'	9
PO	S-PHYSO OPULIFOLIUS 3'	8
SP	S-SYRINGA VULGARIS 2'	9
SW	S-SYRINGA VULGARIS ALBA	11
VJ	S-VIBURN X JUD 3'	9
*	P PL ORNAMENT T QRT P	3.00
**	P PL ORNAMENT T GAL P	0.40
***	P PL ORNAMENT T 2G P	1.20

\* PERENNIAL PLANTS, ORNAMENTAL TYPE, QUART POT, PAID FOR AS 100 POTS PER UNIT

ITEM	DESCRIPTION	SHEET TOTAL	QUANTITY
EP	ECHINACEA PURPUREA 'MAGNUS'	45	0.45
CG	COREOPSIS GRANDIFLORA 'SUNRAY'	15	0.15
HM	HEMEROCALLIS 'PARDON ME'	15	0.15
HS	HEMEROCALLIS 'STELLA DE ORO'	25	0.25
LB	LEUCANTHEMUM X SUPERBUM 'BECKY'	45	0.45
MJ	MONARDA DIDYMA 'JACOB CLINE'	30	0.30
MR	MONARDA DIDYMA 'RASPBERRY WINE'	50	0.50
PF	PAEONIA 'FESTIVA MAXIMA'	30	0.30
PK	PAEONIA 'KANSAS'	10	0.10
SN	SALVIA NEMOROSA 'MAY NIGHT'	35	0.35
TOTAL		300	3.00

\*\* PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT, PAID FOR AS 100 POTS PER UNIT

ITEM	DESCRIPTION	SHEET TOTAL	QUANTITY
PA	PEROVSKIA ATRIPLICIFOLIA	10	0.10
LS	LIATRIS SPICATA	30	0.30
TOTAL		40	0.40

\*\*\* PERENNIAL PLANTS, ORNAMENTAL TYPE, 2-GALLON POT, PAID FOR AS 100 POTS PER UNIT

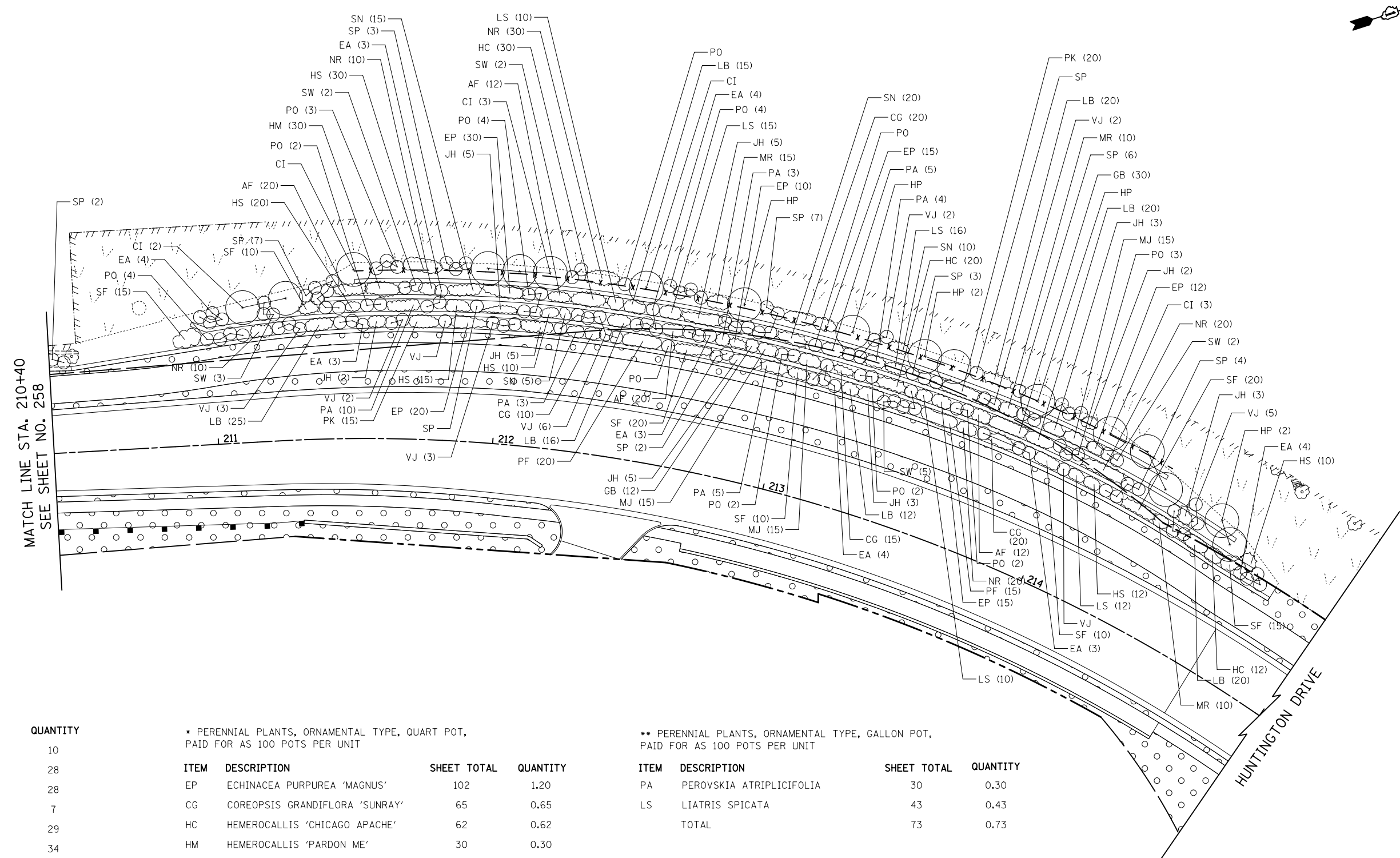
ITEM	DESCRIPTION	SHEET TOTAL	QUANTITY
GB	MISCANTHUS SINENSIS 'GOLD BAR'	35	0.35
SF	MISCANTHUS SINENSIS 'SILBERFEDER'	50	0.50
AF	MISCANTHUS SINENSIS PURPURASCENS	35	0.35
TOTAL		120	1.20



**PLANTING DETAILS**

**HUNTINGTON DRIVE**

FILE NAME = ...\\D160F72-sht-landscp-details-02.dgn	USER NAME = okw	DESIGNED - KTK	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LANDSCAPING PLAN</b>			O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - ARA	REVISED -		SCALE: 1" = 20'	SHEET NO. 17 OF 18 SHEETS	STA. 99+00	TO STA. 112+00	0003	18A-2	MCHENRY	825	258
		CHECKED - KTK	REVISED -						<b>CONTRACT NO. 60F72</b>				
		DATE - 5/3/2012	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								



**LEGEND**

ITEM	ABBREVIATION	QUANTITY
CI	T-CERCIS CAN CL 6'	10
JH	E-JUNIP HOR WIL 18	28
EA	S-EUONYMUS ALATUS 3'	28
HP	S-HYDRA PAN TAR 2.5'	7
PO	S-PHYSO OPULIFOLIUS 3'	29
SP	S-SYRINGA VULGARIS 2'	34
SW	S-SYRINGA VULGARIS ALBA	14
VJ	S-VIBURN X JUD 3'	25
*	P PL ORNAMENT T QRT P	7.74
**	P PL ORNAMENT T GAL P	0.73
***	P PL ORNAMENT T 2G P	2.06

\* PERENNIAL PLANTS, ORNAMENTAL TYPE, QUART POT, PAID FOR AS 100 POTS PER UNIT

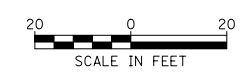
ITEM	DESCRIPTION	SHEET TOTAL	QUANTITY
EP	ECHINACEA PURPUREA 'MAGNUS'	102	1.20
CG	COREOPSIS GRANDIFLORA 'SUNRAY'	65	0.65
HC	HEMEROCALLIS 'CHICAGO APACHE'	62	0.62
HM	HEMEROCALLIS 'PARDON ME'	30	0.30
HS	HEMEROCALLIS 'STELLA DE ORO'	97	0.97
LB	LEUCANTHEMUM X SUPERBUM 'BECKY'	128	1.28
MJ	MONARDA DIDYMA 'JACOB CLINE'	45	0.45
MR	MONARDA DIDYMA 'RASPBERRY WINE'	35	0.35
NR	NEPETA RACEMOSA 'WALKER'S LOW'	90	0.90
PF	PAEONIA 'FESTIVA MAXIMA'	35	0.35
PK	PAEONIA 'KANSAS'	35	0.35
SN	SALVIA NEMOROSA 'MAY NIGHT'	50	0.50
	TOTAL	774	7.74

\*\* PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT, PAID FOR AS 100 POTS PER UNIT

ITEM	DESCRIPTION	SHEET TOTAL	QUANTITY
PA	PEROVSKIA ATRIPLICIFOLIA	30	0.30
LS	LIATRIS SPICATA	43	0.43
	TOTAL	73	0.73

\*\*\* PERENNIAL PLANTS, ORNAMENTAL TYPE, 2-GALLON POT, PAID FOR AS 100 POTS PER UNIT

ITEM	DESCRIPTION	SHEET TOTAL	QUANTITY
GB	MISCANTHUS SINENSIS 'GOLD BAR'	42	0.42
SF	MISCANTHUS SINENSIS 'SILBERFEDER'	100	1.00
AF	MISCANTHUS SINENSIS PURPURASCENS	64	0.64
	TOTAL	206	2.06



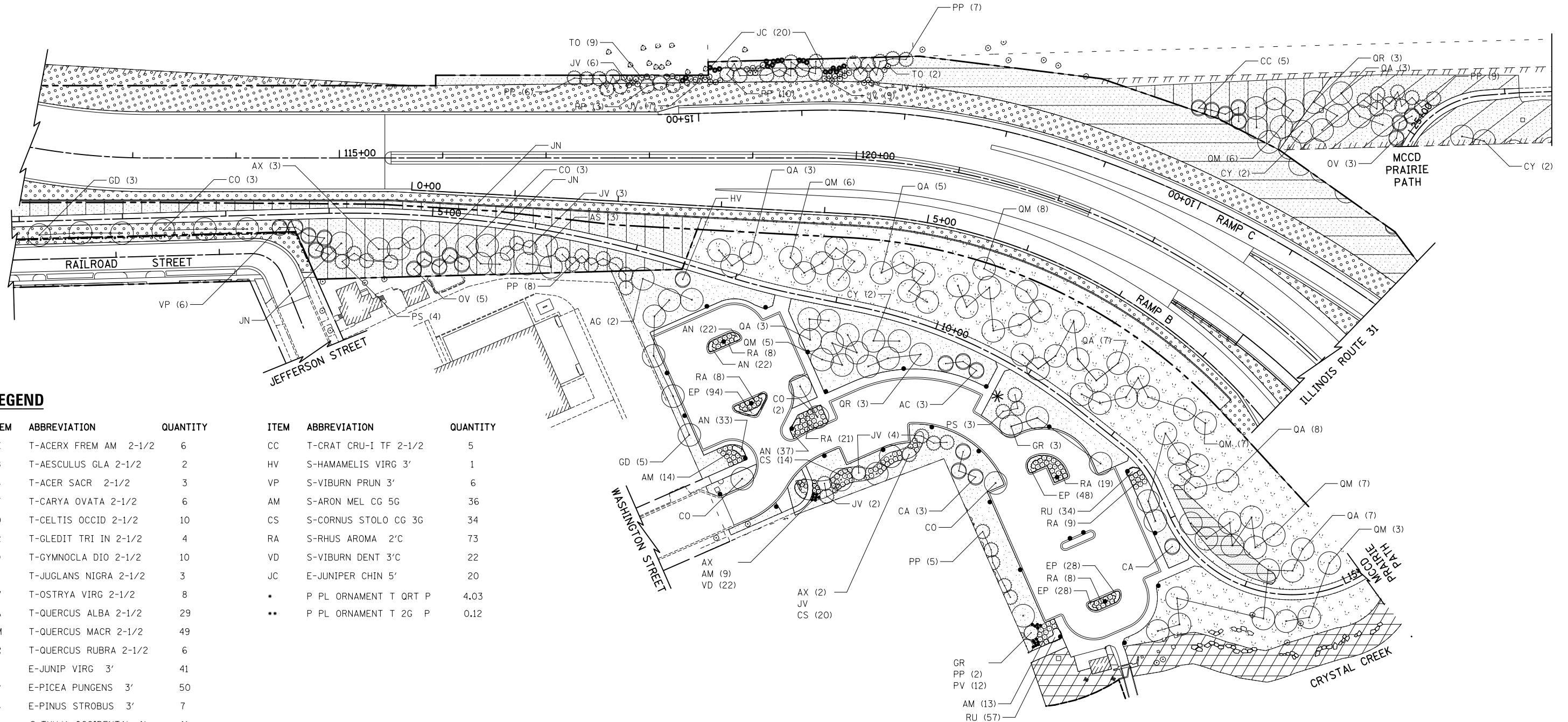
**PLANTING DETAILS** HUNTINGTON DRIVE

\* PERENNIAL PLANTS, ORNAMENTAL TYPE, QUART POT,  
PAID FOR AS 100 POTS PER UNIT

\*\* PERENNIAL PLANTS, ORNAMENTAL TYPE, 2-GALLON POT,  
PAID FOR AS 100 POTS PER UNIT

ITEM	DESCRIPTION	SHEET TOTAL	QUANTITY
AN	ASTER NOVAE-ANGLIAE 'PURPLE DOME'	114	1.14
EP	ECHINACEA PURPUREA 'MAGNUS'	198	1.98
RU	RUDBECKIA FULGIDA 'GOLDSTRUM'	91	0.91
TOTAL		403	4.03

ITEM	DESCRIPTION	SHEET TOTAL	QUANTITY
PV	PANICUM VIRGATUM	12	0.12
TOTAL		12	0.12

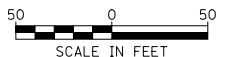


**LEGEND**

ITEM	ABBREVIATION	QUANTITY	ITEM	ABBREVIATION	QUANTITY
AX	T-ACERX FREM AM 2-1/2	6	CC	T-CRAT CRU-I TF 2-1/2	5
AG	T-AESCULUS GLA 2-1/2	2	HV	S-HAMAMELIS VIRG 3'	1
AS	T-ACER SACR 2-1/2	3	VP	S-VIBURN PRUN 3'	6
CY	T-CARYA OVATA 2-1/2	6	AM	S-ARON MEL CG 5G	36
CO	T-CELTIS OCCID 2-1/2	10	CS	S-CORNUS STOLO CG 3G	34
GR	T-GLEDIT TRI IN 2-1/2	4	RA	S-RHUS AROMA 2'C	73
GD	T-GYMNOCOLA DIO 2-1/2	10	VD	S-VIBURN DENT 3'C	22
JN	T-JUGLANS NIGRA 2-1/2	3	JC	E-JUNIPER CHIN 5'	20
OV	T-OSTRYA VIRG 2-1/2	8	*	P PL ORNAMENT T QRT P	4.03
QA	T-QUERCUS ALBA 2-1/2	29	**	P PL ORNAMENT T 2G P	0.12
QM	T-QUERCUS MACR 2-1/2	49			
QR	T-QUERCUS RUBRA 2-1/2	6			
JV	E-JUNIP VIRG 3'	41			
PP	E-PICEA PUNGENS 3'	50			
PS	E-PINUS STROBUS 3'	7			
TO	S-THUJA OCCIDENTAL 4'	11			
AC	T-AMELAN CAN TF 2	3			
CA	T-CORNUS ALT CL 4'	4			

**PLANTING DETAILS**

ILLINOIS ROUTE 31  
RAMP B  
RAMP C  
MCCD PRAIRIE PATH  
RAILROAD STREET



FILE NAME =	USER NAME = okw	DESIGNED - KTK	REVISED -
...\\D160F72-sht-landscp-details-04.dgn		DRAWN - ARA	REVISED -
	PLOT SCALE = 100.0000' / 1in.	CHECKED - KTK	REVISED -
	PLOT DATE = 5/2/2012	DATE - 5/3/2012	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**LANDSCAPING PLAN**

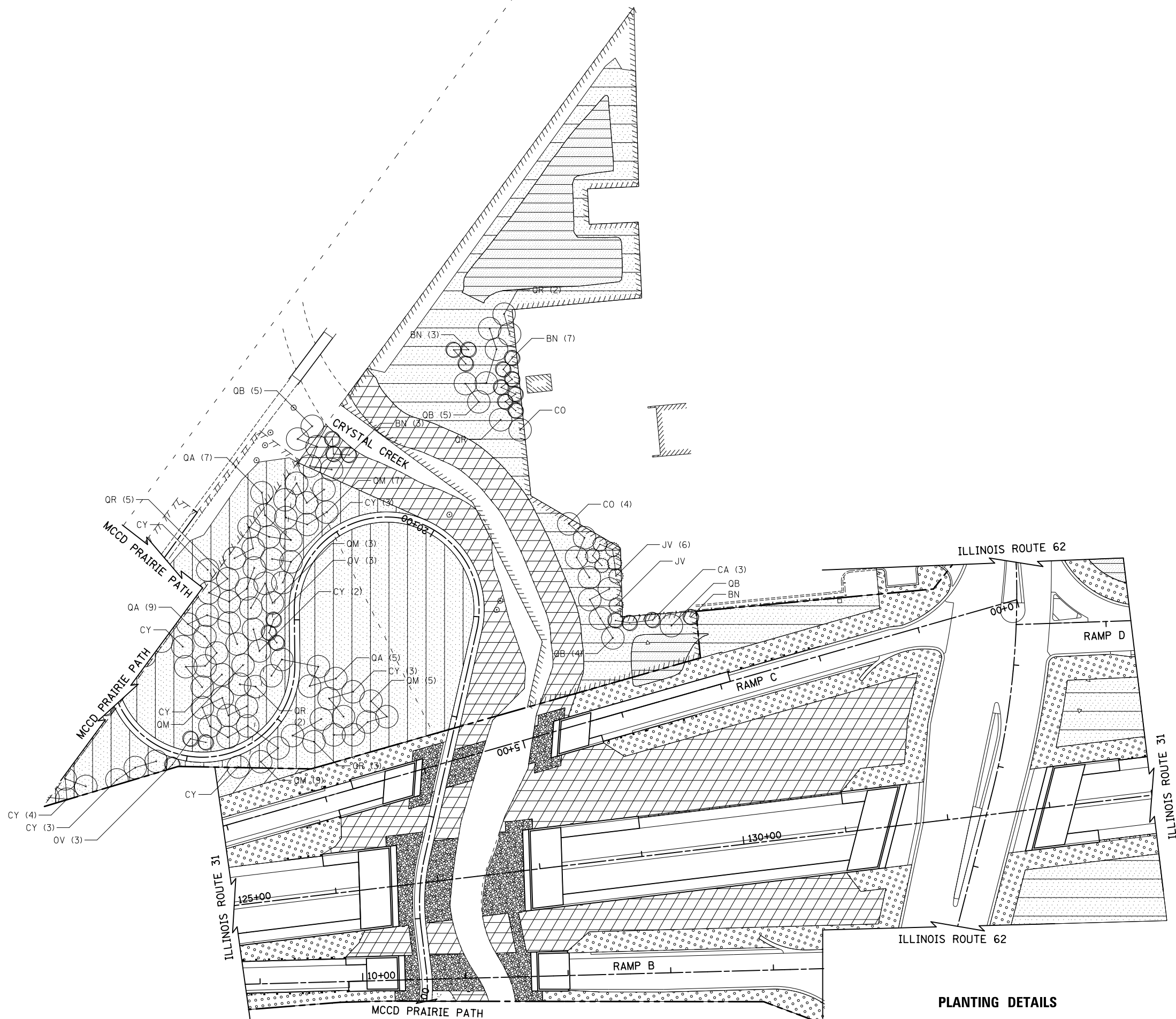
SCALE: 1" = 50' SHEET NO. 15 OF 18 SHEETS STA. 112+00 TO STA. 125+00

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	260
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**LEGEND**

ITEM	ABBREVIATION	QUANTITY
CY	T-CARYA OVATA 2-1/2	19
CO	T-CELTIS OCCID 2-1/2	5
OV	T-OSTRYA VIRG 2-1/2	6
QA	T-QUERCUS ALBA 2-1/2	21
QB	T-QUERCUS BICOL 2-1/2	15
QM	T-QUERCUS MACR 2-1/2	25
QR	T-QUERCUS RUBRA 2-1/2	13
JV	E-JUNIP VIRG 3'	7
BN	T-BETULA NIGRA 2-1/2	14
CA	T-CORNUS ALT CL 4'	3

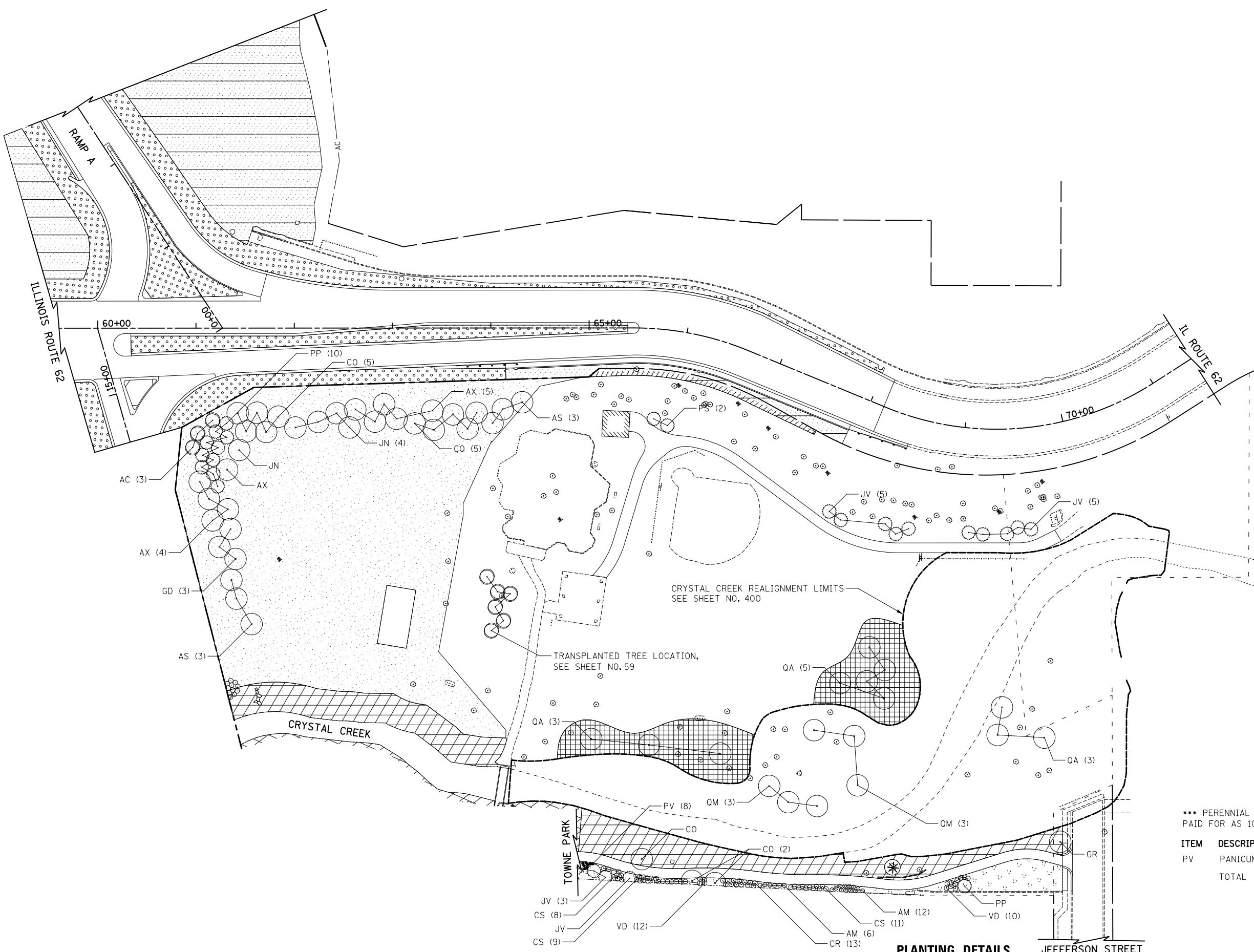
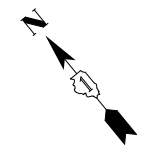


**PLANTING DETAILS**

ILLINOIS ROUTE 31  
 RAMP B  
 RAMP C  
 RAMP D  
 MCD PRAIRIE PATH  
 ILLINOIS ROUTE 62



FILE NAME = ...\\D160F72-sht-landscp-details-05.dgn	USER NAME = akw	DESIGNED - KTK	REVISED - -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LANDSCAPING PLAN</b>			O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 100.0000' / 1in.	DRAWN - ARA	REVISED - -		SCALE: 1" = 50'	SHEET NO. 16 OF 18 SHEETS	STA. 125+00	TO STA. 134+00	0003	18A-2	MCHENRY	825	261
	PLOT DATE = 5/2/2012	CHECKED - KTK	REVISED - -		CONTRACT NO. 60F72								
		DATE - 5/3/2012	REVISED - -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								



**LEGEND**

ITEM	ABBREVIATION	QUANTITY
AX	T-ACERX FREM AM 2-1/2	10
CO	T-CELTIS OCCID 2-1/2	13
GD	T-GYMNOCOLA DIO 2-1/2	3
GR	T-GLEDIT TRI IN 2-1/2	1
JN	T-JUGLANS NIGRA 2-1/2	5
QA	T-QUERCUS ALBA 2-1/2	11
QM	T-QUERCUS MACR 2-1/2	6
JV	E-JUNIP VIRG 3'	14
PP	E-PICEA PUNGENS 3'	11
PS	E-PINUS STROBUS 3'	2
AC	T-AMELAN CAN TF 2	3
AM	S-ARON MEL CG 5G	18
CS	S-CORNUS STOLO CG 3G	28
VD	S-VIBURN DENT 3'C	22
CR	S-CORNUS RACEMOSA 3'	13
AS	T-ACER SACR 2-1/2	6
***	P PL ORNAMENT T 2G P	0.08

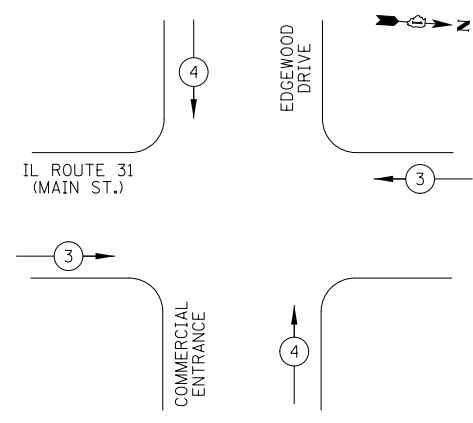
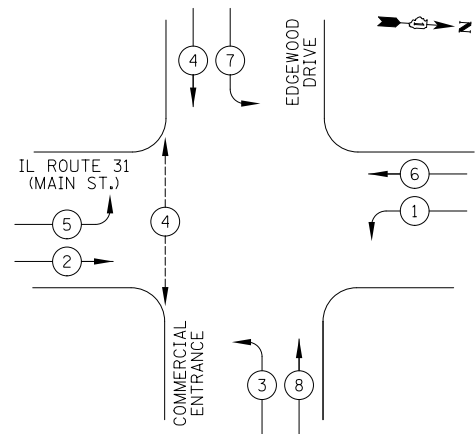
\*\*\* PERENNIAL PLANTS, ORNAMENTAL TYPE, 2-GALLON POT, PAID FOR AS 100 POTS PER UNIT

ITEM	DESCRIPTION	SHEET TOTAL	QUANTITY
PV	PANICUM VIRGATUM	8	0.08
TOTAL		8	0.08



TEMPORARY CONTROLLER SEQUENCE

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



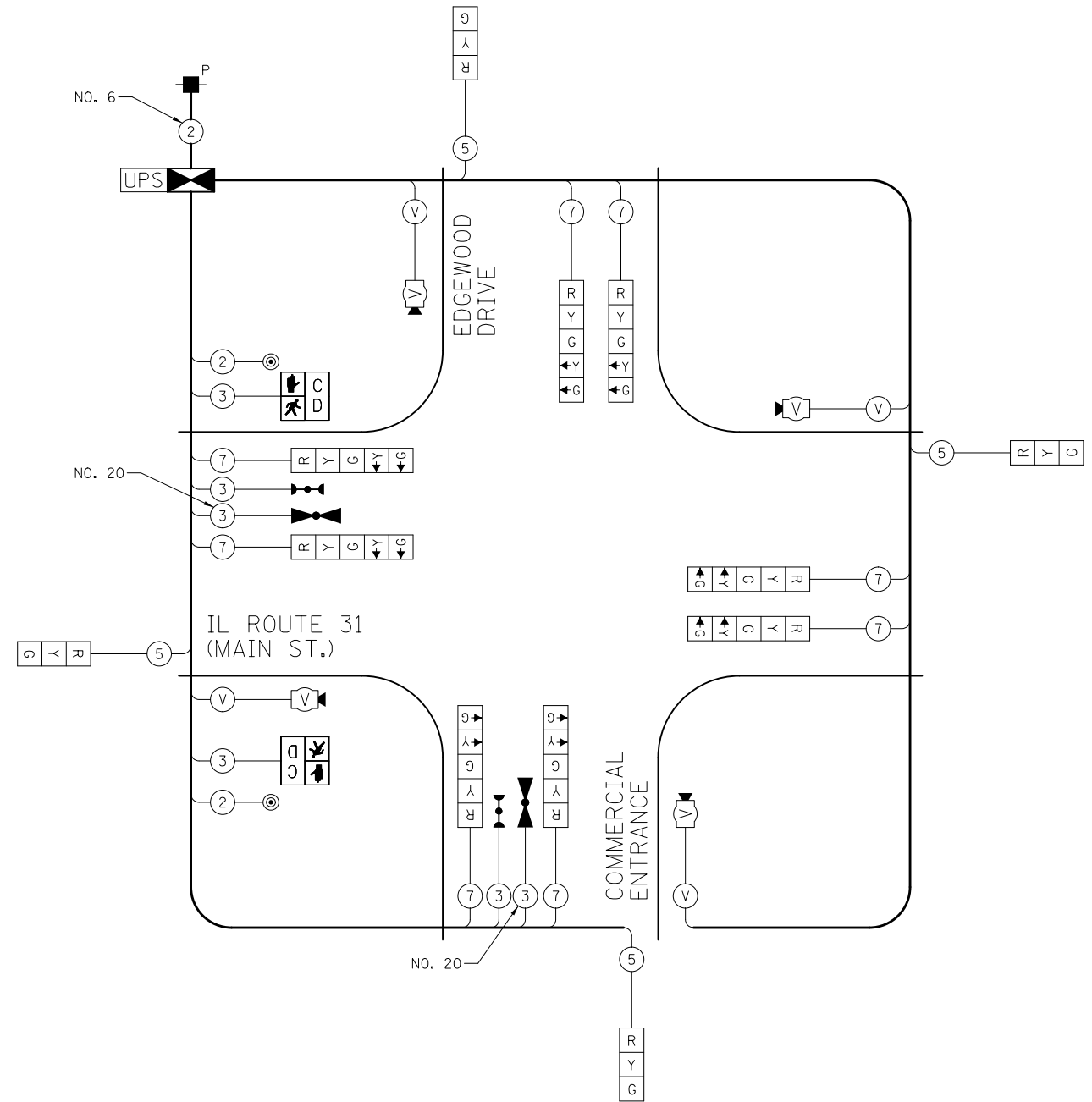
LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		

PHASE DESIGNATION DIAGRAM



TEMPORARY CABLE PLAN  
NOT TO SCALE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	12		17	0.50	102
(YELLOW)	12		25	0.25	75
(GREEN)	12		15	0.25	45
ARROW	16		12	0.10	19
PED. SIGNAL	2		25	1.00	50
CONTROLLER	1		100	1.00	100
FLASHER				0.50	
TOTAL =					391
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096					
ENERGY SUPPLY: CONTACT: MIKE LENOX PHONE: (815) 490-2869 COMPANY: COM ED					

FILE NAME = ... \D160F72-sh-t-ts-02.dgn	USER NAME = okw	DESIGNED - BRD	REVISED -
		DRAWN - OJT	REVISED -
		CHECKED - JJE	REVISED -
		DATE - 5/3/2012	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

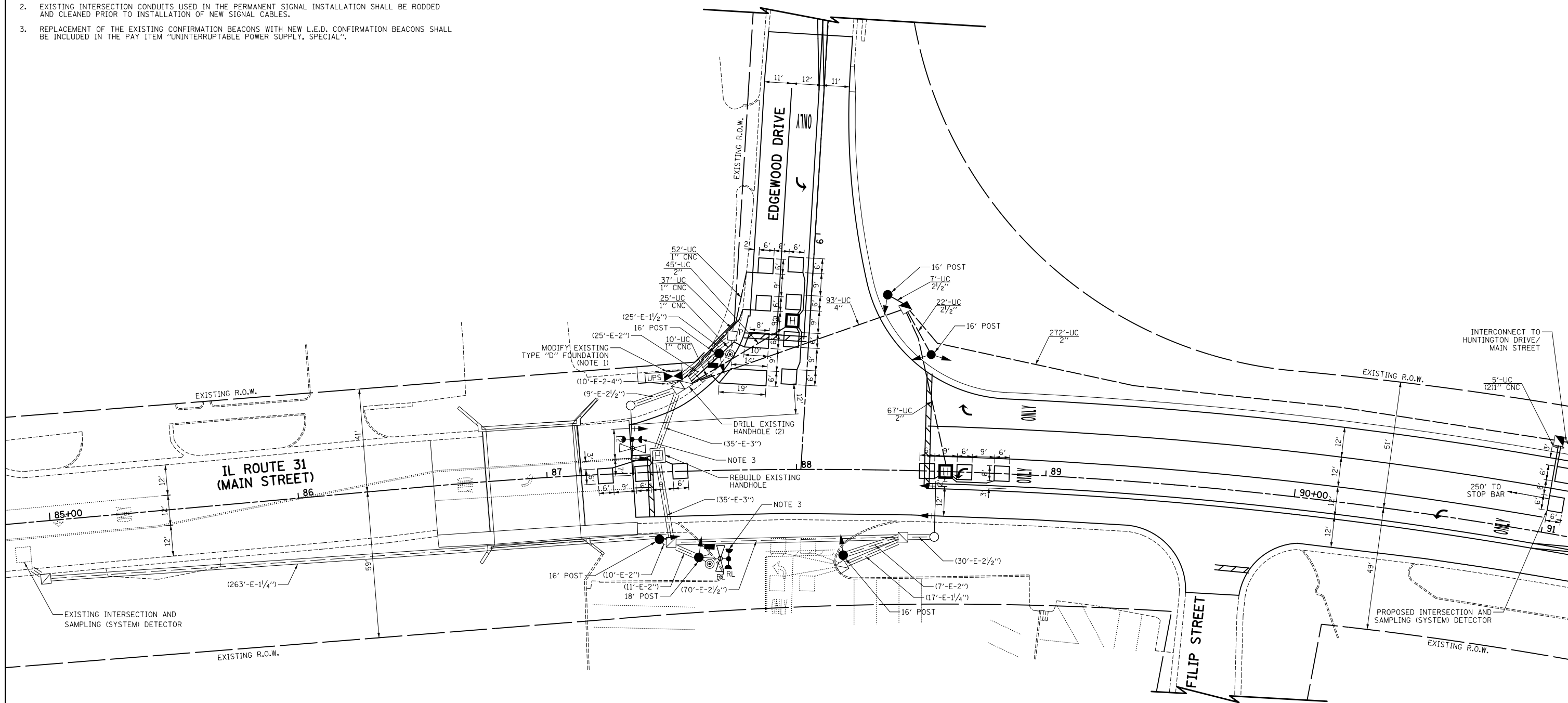
TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,  
AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE  
IL ROUTE 31 AT EDGEWOOD DRIVE

SCALE: NOT TO SCALE SHEET NO. OF SHEETS STA. TO STA.

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	264
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL NOTES

1. INSTALL A NEW CONTROLLER AND TYPE IV CABINET ON THE EXISTING TYPE "D" FOUNDATION. THE FOUNDATION SHALL BE MODIFIED TO ACCOMMODATE INSTALLATION OF THE UNINTERRUPTIBLE POWER SUPPLY.
2. EXISTING INTERSECTION CONDUITS USED IN THE PERMANENT SIGNAL INSTALLATION SHALL BE RODDED AND CLEANED PRIOR TO INSTALLATION OF NEW SIGNAL CABLES.
3. REPLACEMENT OF THE EXISTING CONFIRMATION BEACONS WITH NEW L.E.D. CONFIRMATION BEACONS SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTIBLE POWER SUPPLY, SPECIAL".



NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME = ...\\D160F72-sht-ts-03.dgn	USER NAME = akw	DESIGNED - BRD	REVISED -
		DRAWN - OJT	REVISED -
		CHECKED - JJE	REVISED -
		DATE - 5/3/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

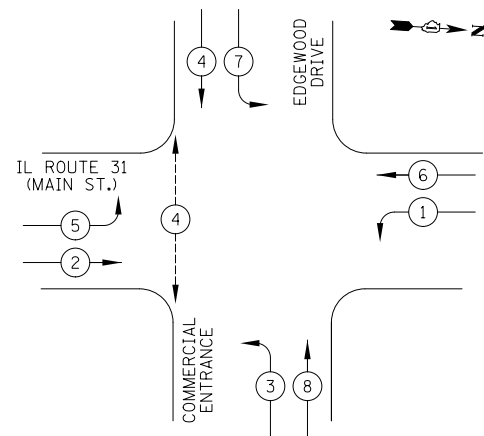
**TRAFFIC SIGNAL MODIFICATION PLAN  
IL ROUTE 31 (MAIN ST.) AT EDGEWOOD DRIVE**

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

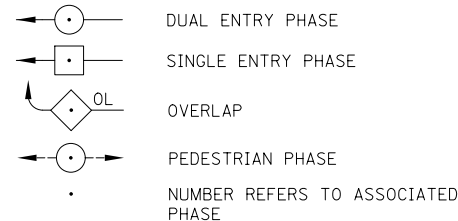
O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	265
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



PROPOSED CONTROLLER SEQUENCE

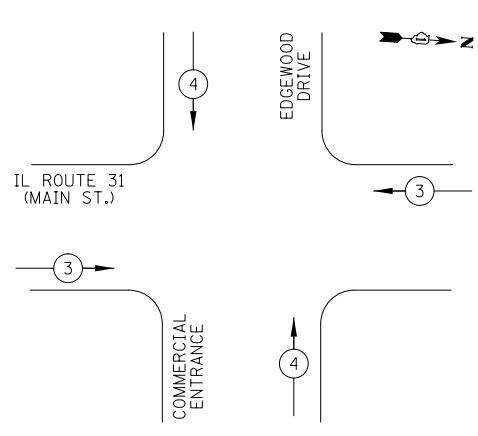


LEGEND



PHASE DESIGNATION DIAGRAM

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

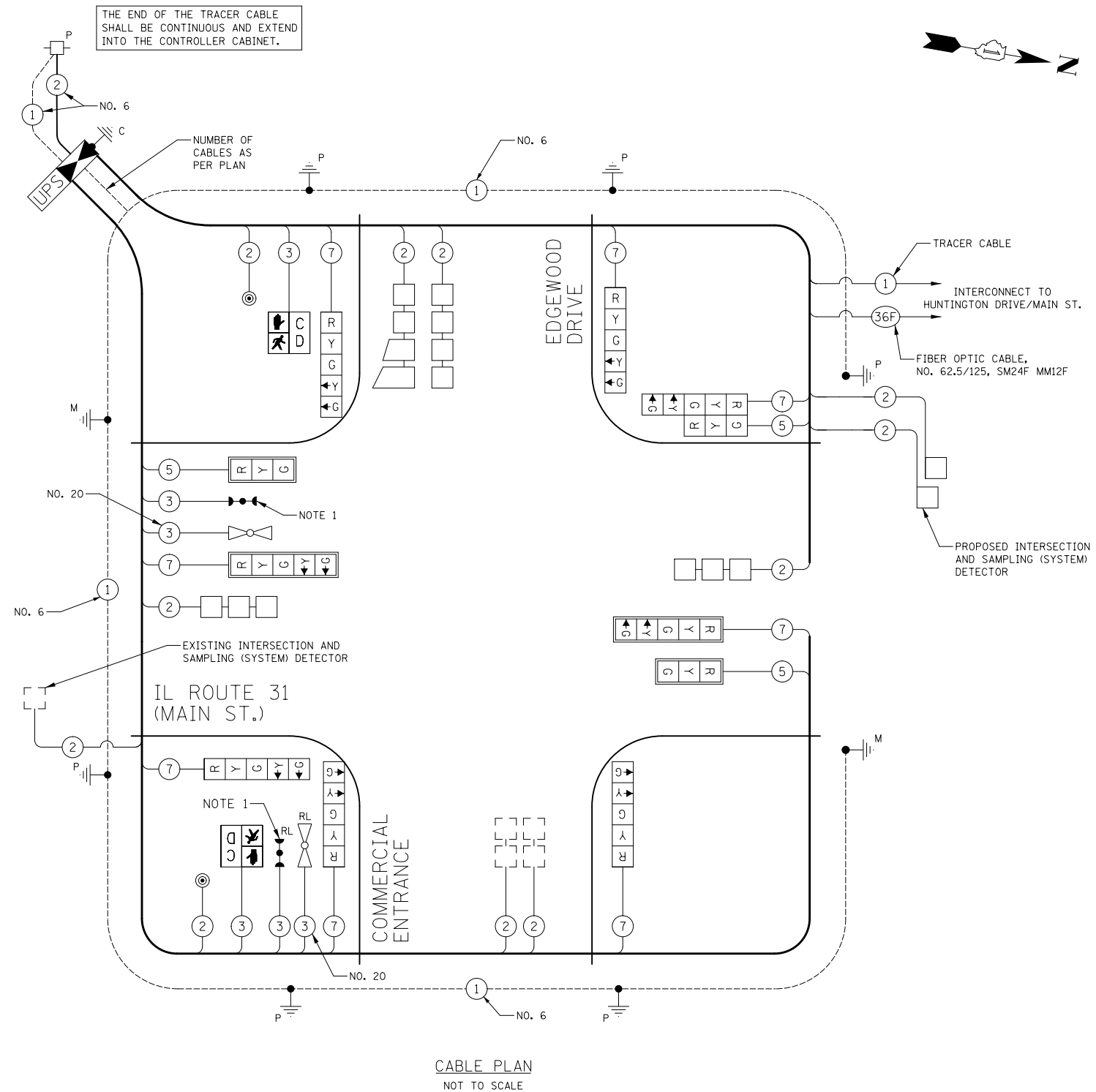


PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	384
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	29
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	93
HANDHOLE	EACH	2
HEAVY-DUTY HANDHOLE	EACH	2
** PAINT EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
** PAINT NEW TRAFFIC SIGNAL POST	EACH	6
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	196
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	435
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	488
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1224
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1988
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	45
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	622
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	5
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
MODIFY EXISTING TYPE "D" FOUNDATION	EACH	1
DRILL EXISTING HANDHOLE	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	4
INDUCTIVE LOOP DETECTOR	EACH	9
DETECTOR LOOP, TYPE I	FOOT	517
PEDESTRIAN PUSH-BUTTON	EACH	2
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2794
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE	EACH	1
REMOVE EXISTING HANDHOLE	EACH	5
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	225
ROD AND CLEAN EXISTING CONDUIT	FOOT	557
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

\* 100% COST TO ALGONQUIN-LAKE IN THE HILLS FIRE PROTECTION DISTRICT  
 \*\* 100% COST TO VILLAGE OF ALGONQUIN



CABLE PLAN  
NOT TO SCALE

CABLE PLAN NOTES

- REPLACEMENT OF EXISTING CONFIRMATION BEACONS WITH NEW L.E.D. CONFIRMATION BEACONS SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTIBLE POWER SUPPLY, SPECIAL".

NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	11		17	0.50	94
(YELLOW)	11		25	0.25	89
(GREEN)	11		15	0.25	41
ARROW	16		12	0.10	19
PED. SIGNAL	2		25	1.00	50
CONTROLLER	1		100	1.00	100
FLASHER				0.50	
TOTAL =					373

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096  
 CONTACT: MIKE LENOX  
 PHONE: (815) 490-2869  
 COMPANY: COM ED

FILE NAME = ... \D160F72-sht-ts-04.dgn	USER NAME = akw	DESIGNED - BRD	REVISED -
		DRAWN - OJT	REVISED -
		CHECKED - JJE	REVISED -
		DATE - 5/3/2012	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
EMERGENCY VEHICLE PREEMPTION SEQUENCE & SCHEDULE OF QUANTITIES  
IL ROUTE 31 (MAIN ST.) AT EDGEWOOD DRIVE

SCALE: NO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	266
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

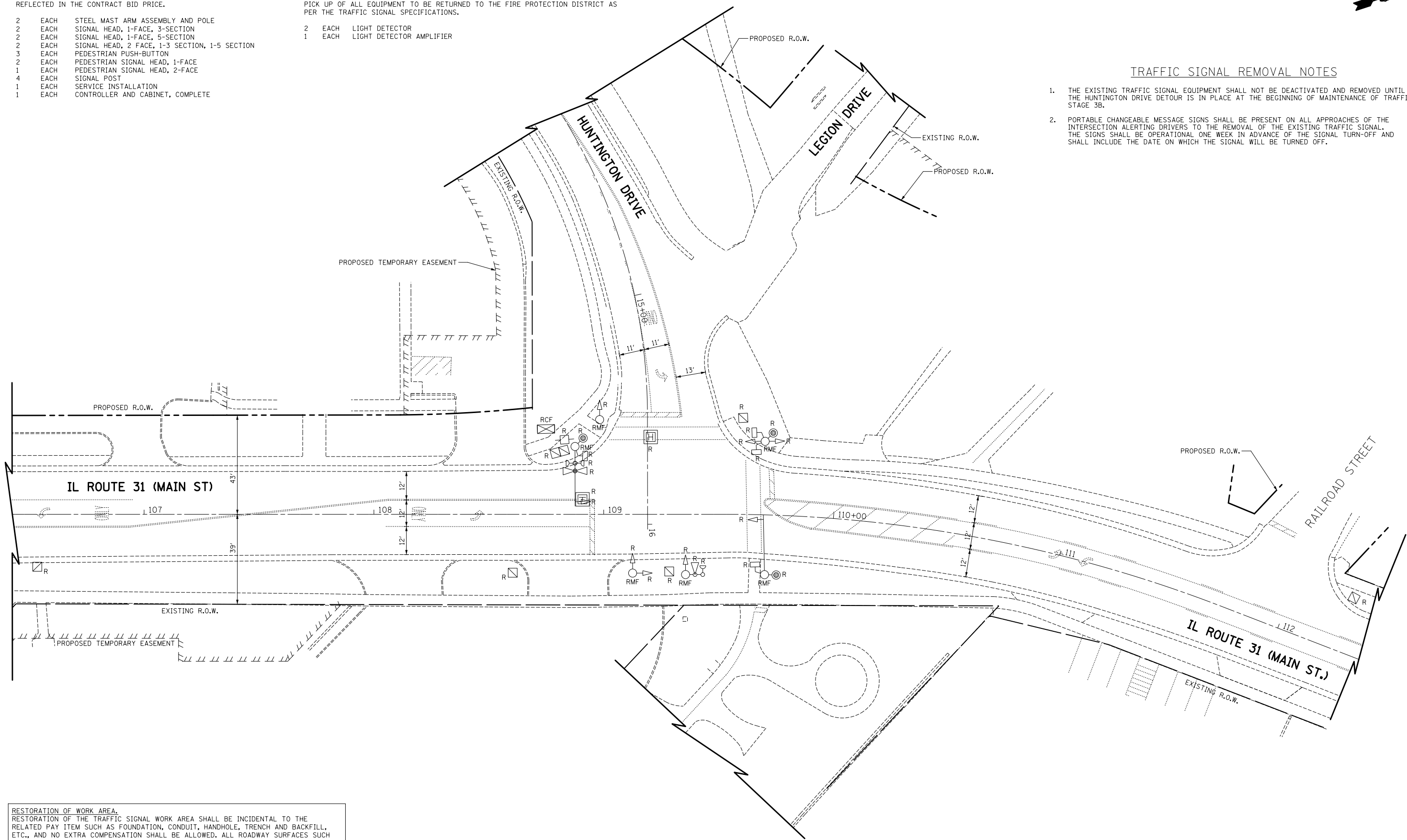
- 2 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 2 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 2 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 2 EACH SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
- 3 EACH PEDESTRIAN PUSH-BUTTON
- 2 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 1 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 4 EACH SIGNAL POST
- 1 EACH SERVICE INSTALLATION
- 1 EACH CONTROLLER AND CABINET, COMPLETE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE ALGONQUIN-LAKE IN THE HILLS FIRE PROTECTION DISTRICT. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE FIRE PROTECTION DISTRICT AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER

### TRAFFIC SIGNAL REMOVAL NOTES

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE DEACTIVATED AND REMOVED UNTIL THE HUNTINGTON DRIVE DETOUR IS IN PLACE AT THE BEGINNING OF MAINTENANCE OF TRAFFIC STAGE 3B.
2. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE PRESENT ON ALL APPROACHES OF THE INTERSECTION ALERTING DRIVERS TO THE REMOVAL OF THE EXISTING TRAFFIC SIGNAL. THE SIGNS SHALL BE OPERATIONAL ONE WEEK IN ADVANCE OF THE SIGNAL TURN-OFF AND SHALL INCLUDE THE DATE ON WHICH THE SIGNAL WILL BE TURNED OFF.



**RESTORATION OF WORK AREA.**  
 RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SALT TOLERANT SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

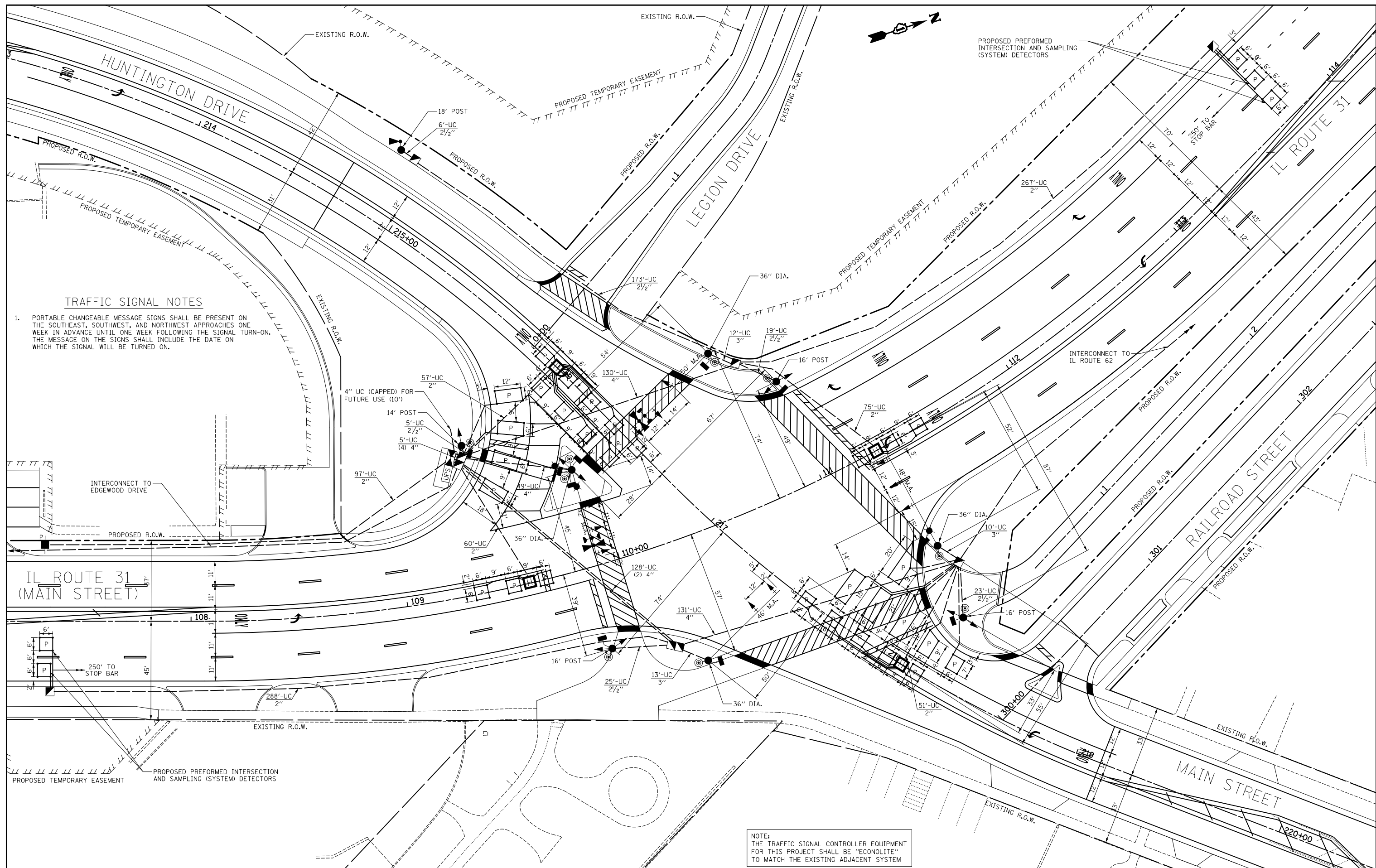
FILE NAME = ... \D160F72-sht-ts-05.dgn	USER NAME = akw	DESIGNED - BRD	REVISED -
		DRAWN - OJT	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 5/2/2012	DATE - 5/3/2012	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL REMOVAL PLAN  
 IL ROUTE 31 (MAIN ST.) AT HUNTINGTON DRIVE**

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

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	267
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



FILE NAME =  
... \D160F72-sht-ts-06.dgn

USER NAME = akw  
DESIGNED - BRD  
DRAWN - OJT  
PLOT SCALE = 40.0000' / in.  
CHECKED - JJE  
PLOT DATE = 5/2/2012  
DATE - 5/3/2012

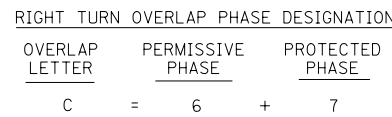
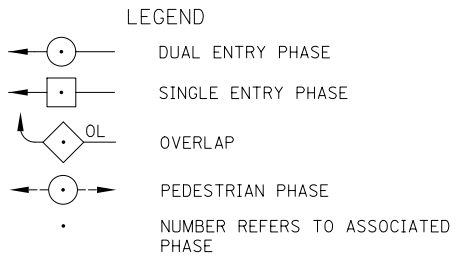
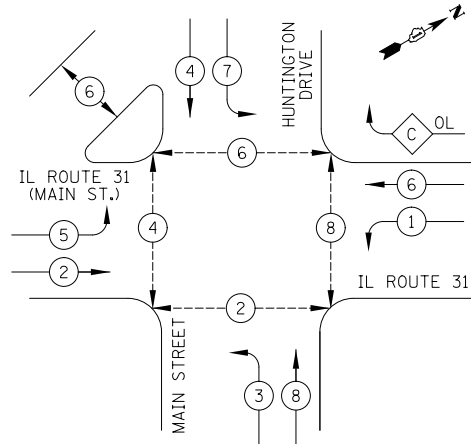
REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN  
IL ROUTE 31 AT MAIN STREET/HUNTINGTON DRIVE**  
SCALE: 1"=20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

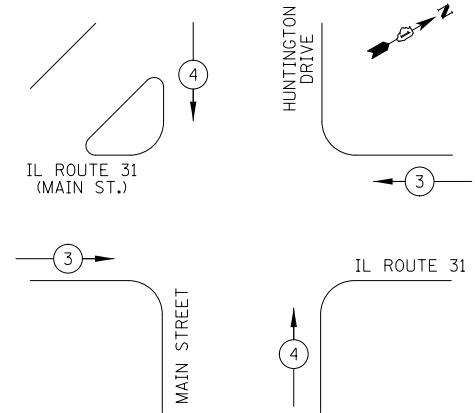
O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	268
<b>CONTRACT NO. 60F72</b>				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PROPOSED CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

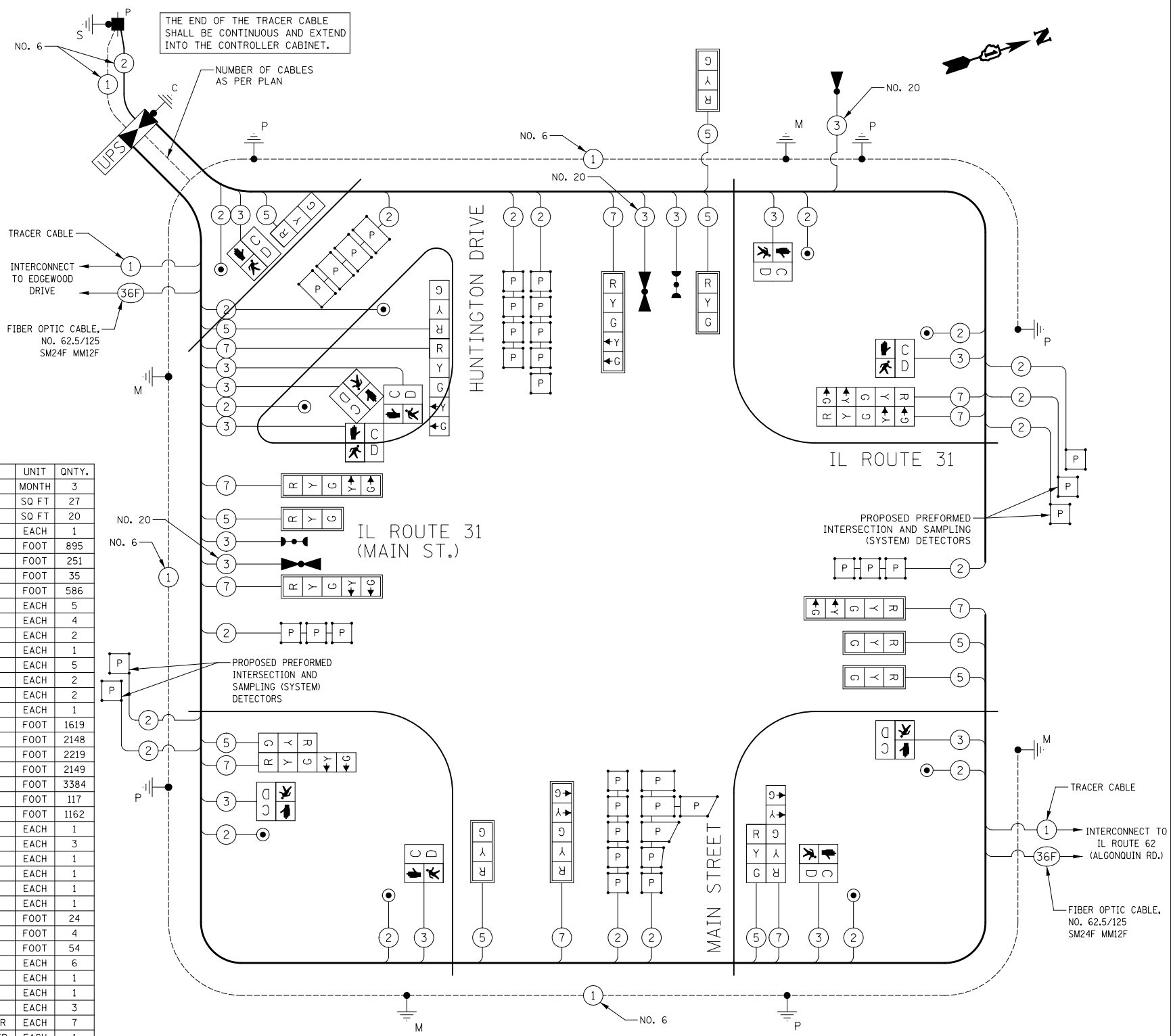
TYPE	NO. LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	20		17	0.50	170
(YELLOW)	20		25	0.25	125
(GREEN)	20		15	0.25	75
ARROW	20		12	0.10	24
PED. SIGNAL	10		25	1.00	250
CONTROLLER	1		100	1.00	100
FLASHER					0.50
TOTAL =					744

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: MIKE LENOX  
PHONE: (815) 490-2869  
COMPANY: COM ED

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
CHANGEABLE MESSAGE SIGN	MONTH	3
SIGN PANEL - TYPE 1	SQ FT	27
SIGN PANEL - TYPE 2	SQ FT	20
SERVICE INSTALLATION, POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	895
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	251
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	35
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	586
HANDHOLE	EACH	5
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
** PAINT NEW TRAFFIC SIGNAL POST	EACH	5
** PAINT NEW MAST ARM AND POLE, 40 FOOT AND OVER	EACH	2
** PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	2
TRANSCIEVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1619
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2148
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2219
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2149
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3384
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	117
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1162
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	24
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	54
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	7
PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	11
INDUCTIVE LOOP DETECTOR	EACH	12
PREFORMED DETECTOR LOOP	FOOT	1458
* LIGHT DETECTOR	EACH	3
* LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	9
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	8
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	744
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 42 FT., SPECIAL	EACH	1
*100% COST TO ALGONQUIN-LAKE IN THE HILLS FIRE PROTECTION DISTRICT		
**100% COST TO VILLAGE OF ALGONQUIN		



CABLE PLAN  
NOT TO SCALE

NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM

FILE NAME = ... \D160F72-sht-ts-07.dgn	USER NAME = akw	DESIGNED - BRD	REVISED -
		DRAWN - OJT	REVISED -
		CHECKED - JJE	REVISED -
		DATE - 5/3/2012	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

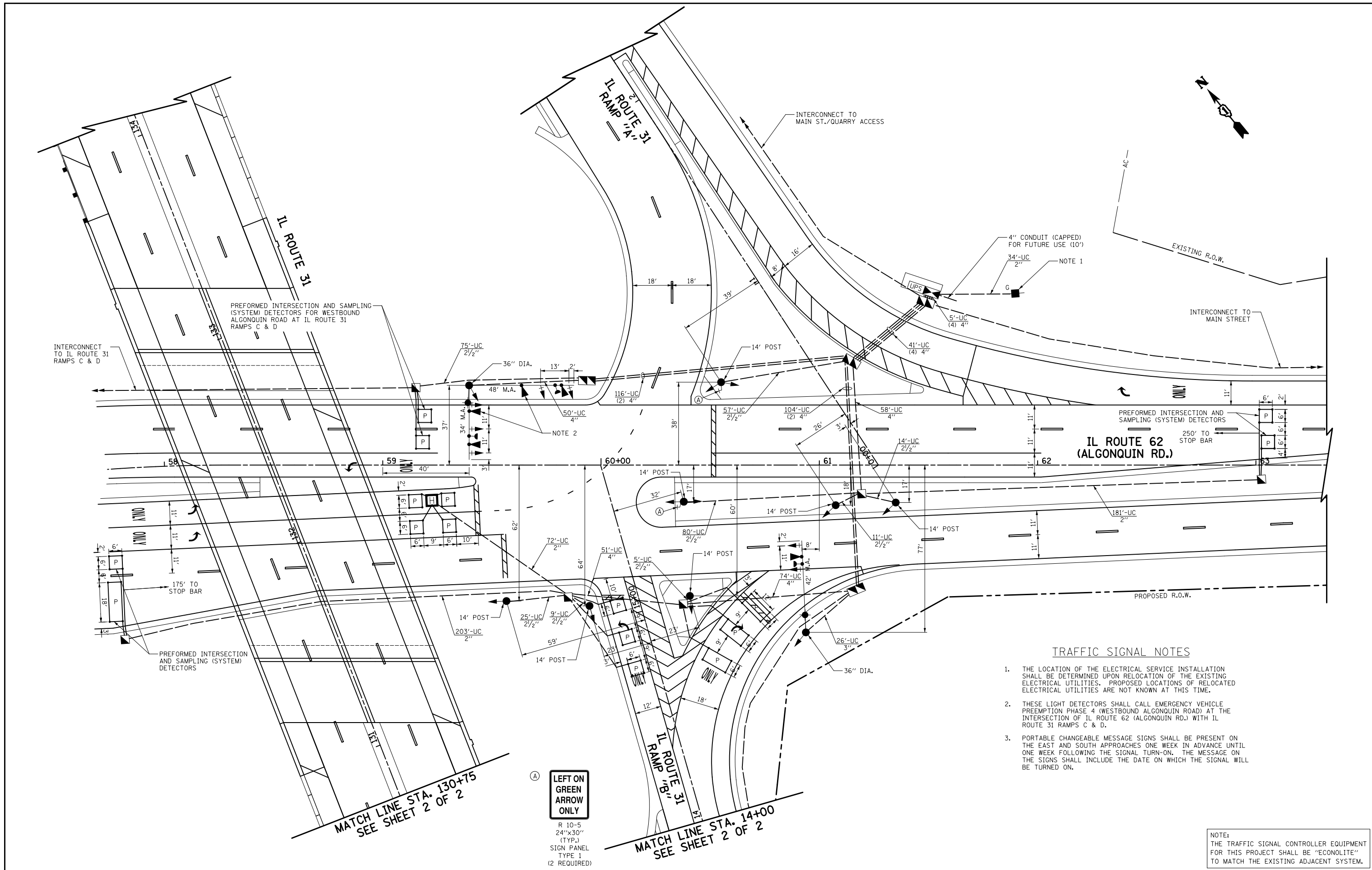
CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
EMERGENCY VEHICLE PREEMPTION SEQUENCE & SCHEDULE OF QUANTITIES  
IL ROUTE 31 AT MAIN STREET/HUNTINGTON DRIVE

SCALE: NO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	269

CONTRACT NO. 60F72

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



**TRAFFIC SIGNAL NOTES**

1. THE LOCATION OF THE ELECTRICAL SERVICE INSTALLATION SHALL BE DETERMINED UPON RELOCATION OF THE EXISTING ELECTRICAL UTILITIES. PROPOSED LOCATIONS OF RELOCATED ELECTRICAL UTILITIES ARE NOT KNOWN AT THIS TIME.
2. THESE LIGHT DETECTORS SHALL CALL EMERGENCY VEHICLE PREEMPTION PHASE 4 (WESTBOUND ALGONQUIN ROAD) AT THE INTERSECTION OF IL ROUTE 62 (ALGONQUIN RD.) WITH IL ROUTE 31 RAMPS C & D.
3. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE PRESENT ON THE EAST AND SOUTH APPROACHES ONE WEEK IN ADVANCE UNTIL ONE WEEK FOLLOWING THE SIGNAL TURN-ON. THE MESSAGE ON THE SIGNS SHALL INCLUDE THE DATE ON WHICH THE SIGNAL WILL BE TURNED ON.

NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

**LEFT ON GREEN ARROW ONLY**

R 10-5  
24"x30"  
(TYP.)  
SIGN PANEL  
TYPE 1  
(2 REQUIRED)

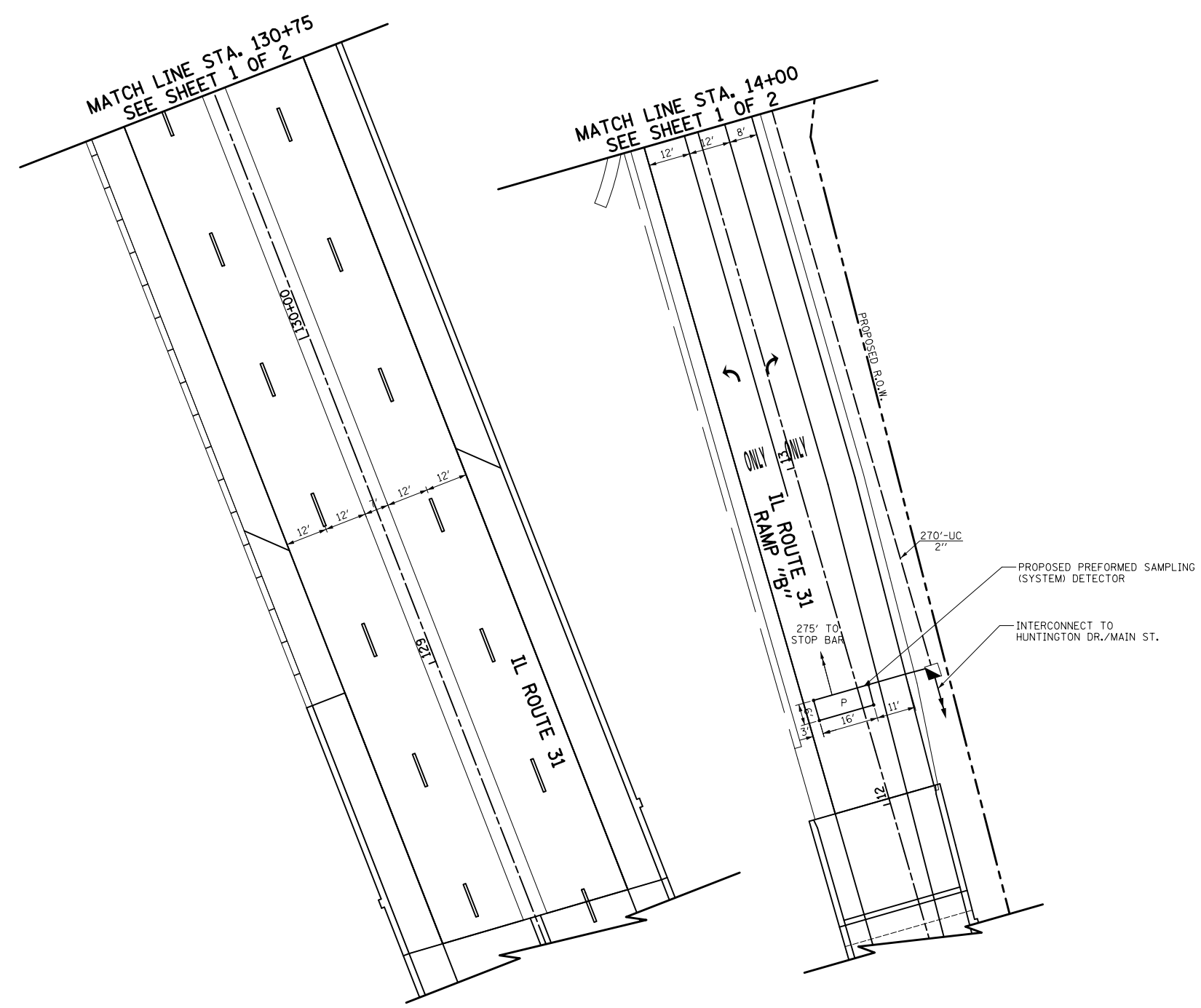
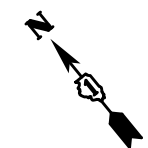
FILE NAME = ...\\D160F72-sh-t-ts-08.dgn	USER NAME = okw	DESIGNED - BRD	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - JJE	DRAWN - OJT	REVISED -
PLOT DATE = 5/2/2012	DATE - 5/3/2012		REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN  
IL ROUTE 31 RAMPS A & B AT IL ROUTE 62 (ALGONQUIN RD.)**

SCALE: 1"=20'    SHEET NO. 1 OF 2 SHEETS    STA.    TO STA.

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	270
<b>CONTRACT NO. 60F72</b>				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTE:  
 THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT  
 FOR THIS PROJECT SHALL BE "ECONOLITE"  
 TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME = ... \D160F72-shr-ts-09.dgn	USER NAME = akw	DESIGNED - BRD	REVISED -
		DRAWN - OJT	REVISED -
		CHECKED - JJE	REVISED -
		DATE - 5/3/2012	REVISED -

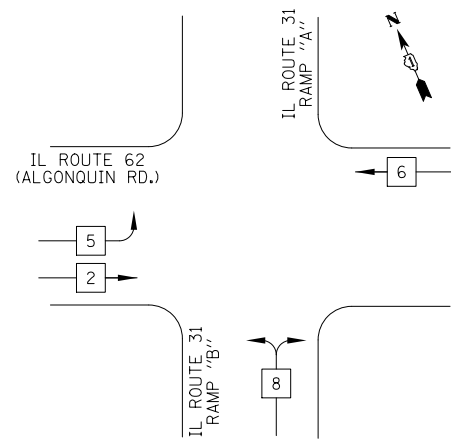
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN  
 IL ROUTE 31 RAMPS A & B AT IL ROUTE 62 (ALGONQUIN RD.)**

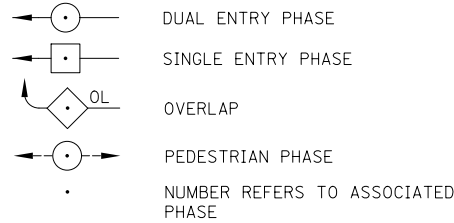
SCALE: 1"=20'      SHEET NO. 2 OF 2 SHEETS      STA.      TO STA.

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	271
<b>CONTRACT NO. 60F72</b>				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

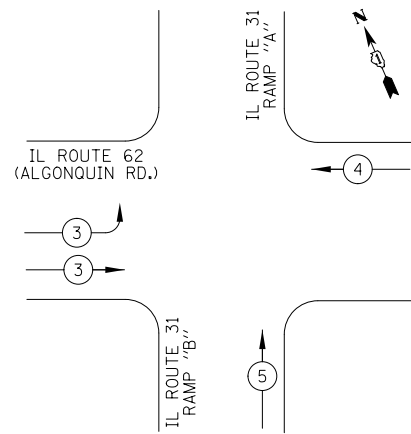
PROPOSED CONTROLLER SEQUENCE



LEGEND



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			

PHASE DESIGNATION DIAGRAM

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
CHANGEABLE MESSAGE SIGN	MONTH	1
SIGN PANEL - TYPE 1	SQ FT	10
SERVICE INSTALLATION, GROUND MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	760
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	276
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	26
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	837
HANDHOLE	EACH	6
HEAVY-DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	4
** PAINT NEW TRAFFIC SIGNAL POST	EACH	7
** PAINT NEW MAST ARM AND POLE, 40 FOOT AND OVER	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
* ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	918
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4770
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3165
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	49
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1349
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	7
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	32
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	27
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	7
INDUCTIVE LOOP DETECTOR	EACH	9
PREFORMED DETECTOR LOOP	FOOT	557
* LIGHT DETECTOR	EACH	5
* LIGHT DETECTOR AMPLIFIER	EACH	1
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	2204
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 34 FT. AND 48 FT.	EACH	1
** PAINT NEW COMBINATION MAST ARM AND POLE WITH DUAL MAST ARMS, 1-UNDER 40 FEET, 1-OVER 40 FEET	EACH	1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	18		17	0.50	153
(YELLOW)	18		25	0.25	113
(GREEN)	18		15	0.25	68
ARROW	-		12	0.10	-
PED. SIGNAL	-		25	1.00	-
CONTROLLER	1		100	1.00	100
FLASHER				0.50	
TOTAL =					434

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096  
CONTACT: MIKE LENOX  
PHONE: (815) 490-2869  
COMPANY: COM ED

ENERGY SUPPLY:

FILE NAME = ... \D160F72-sht-ts-10.dgn	USER NAME = akw	DESIGNED - BRD	REVISED -
		DRAWN - OJT	REVISED -
		CHECKED - JJE	REVISED -
		DATE - 5/3/2012	REVISED -

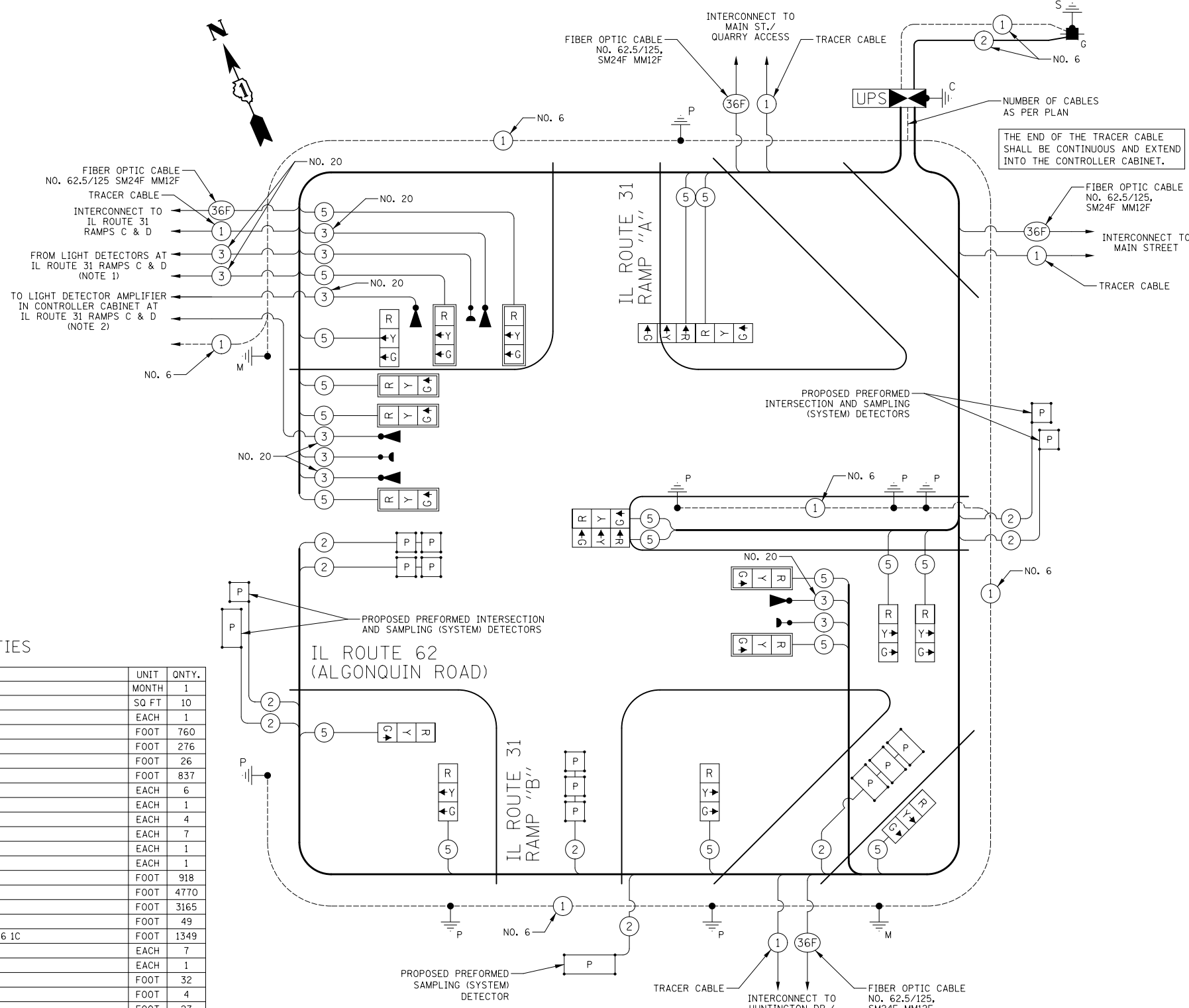
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
EMERGENCY VEHICLE PREEMPTION SEQUENCE & SCHEDULE OF QUANTITIES  
IL ROUTE 31 RAMPS A & B AT IL ROUTE 62 (ALGONQUIN RD.)

SCALE: NO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	272

CONTRACT NO. 60F72  
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



CABLE PLAN  
NOT TO SCALE

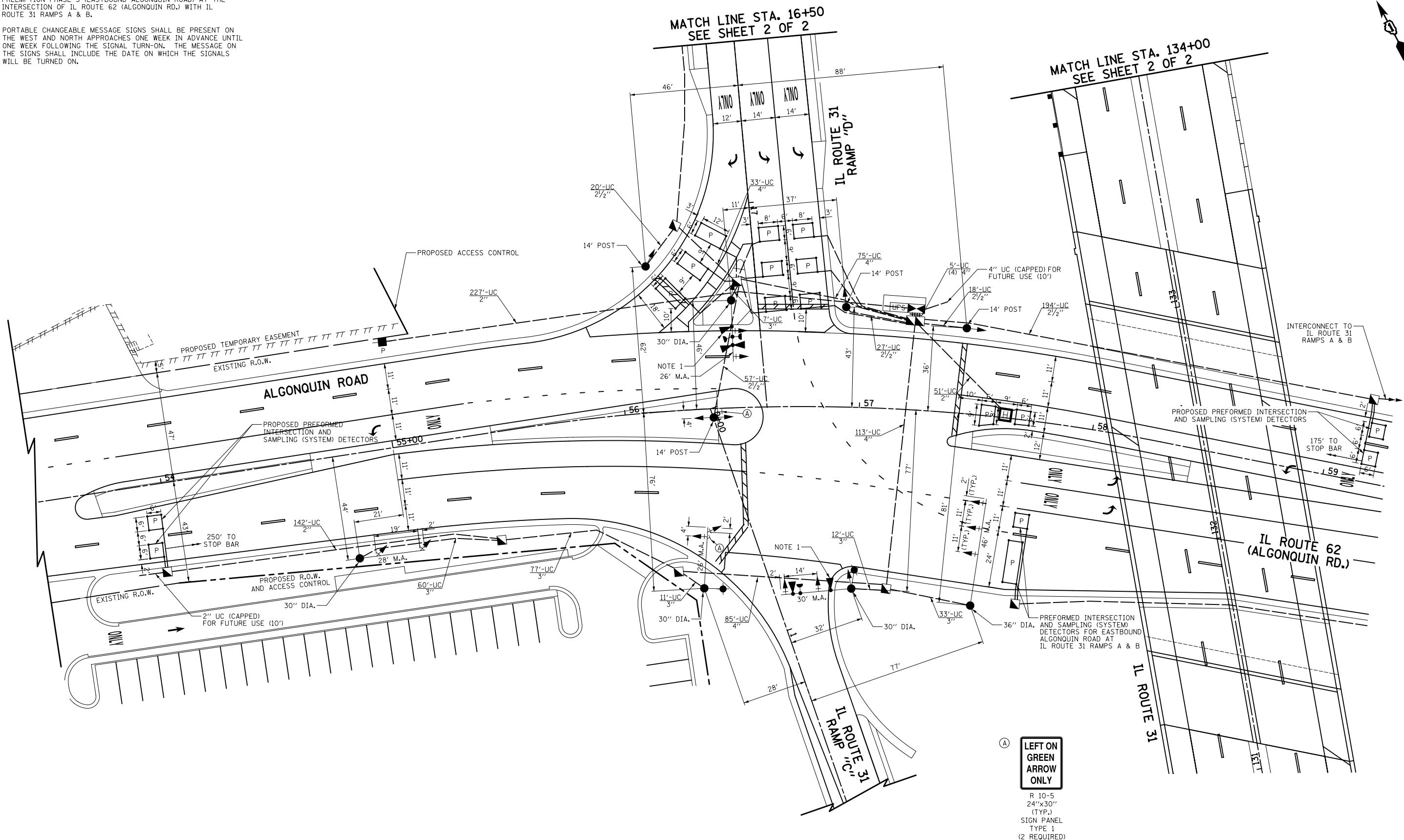
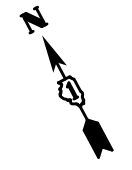
CABLE PLAN NOTES

- THESE CABLES ARE CONNECTED TO LIGHT DETECTORS ON THE NORTHWEST AND SOUTH MAST ARMS AT THE IL ROUTE 31 RAMPS C & D INTERSECTION. THOSE DETECTORS PLACE A CALL IN EMERGENCY VEHICLE PREEMPTION PHASE 3 AT THIS INTERSECTION.
- THESE CABLES ARE CONNECTED TO THE LIGHT DETECTOR AMPLIFIER IN THE CONTROLLER CABINET AT THE IL ROUTE 31 RAMPS C & D INTERSECTION. THE CORRESPONDING LIGHT DETECTORS PLACE A CALL IN EMERGENCY VEHICLE PREEMPTION PHASE 4 AT THAT INTERSECTION.

NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

**TRAFFIC SIGNAL NOTES**

1. THESE LIGHT DETECTORS SHALL CALL EMERGENCY VEHICLE PREEMPTION PHASE 3 (EASTBOUND ALGONQUIN ROAD) AT THE INTERSECTION OF IL ROUTE 62 (ALGONQUIN RD.) WITH IL ROUTE 31 RAMPS A & B.
2. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE PRESENT ON THE WEST AND NORTH APPROACHES ONE WEEK IN ADVANCE UNTIL ONE WEEK FOLLOWING THE SIGNAL TURN-ON. THE MESSAGE ON THE SIGNS SHALL INCLUDE THE DATE ON WHICH THE SIGNALS WILL BE TURNED ON.



Ⓐ LEFT ON GREEN ARROW ONLY  
 R 10-5  
 24"x30"  
 (TYP.)  
 SIGN PANEL  
 TYPE 1  
 (2 REQUIRED)

NOTE:  
 THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME =  
 ...\\D160F72-sht-ts-11.dgn

USER NAME = akw  
 DESIGNED - BRD  
 DRAWN - OJT  
 CHECKED - JJE  
 DATE - 5/3/2012  
 PLOT SCALE = 40.0000' / in.  
 PLOT DATE = 5/2/2012

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

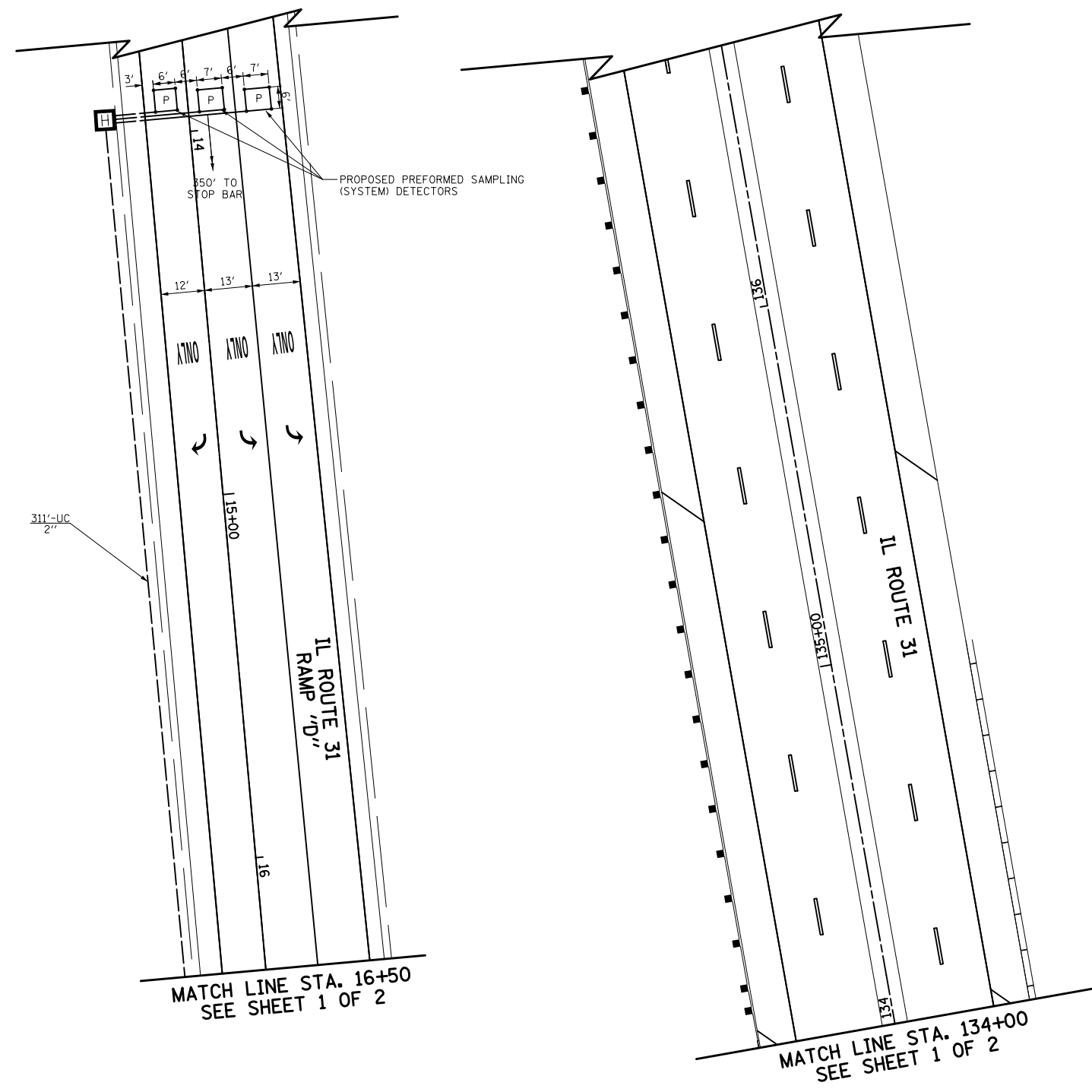
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN  
 IL ROUTE 31 RAMPS C & D AT IL ROUTE 62 (ALGONQUIN RD.)**

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

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	273
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME = ...\\D160F72-sht-ts-12.dgn	USER NAME = okw	DESIGNED - BRD	REVISED -
		DRAWN - OJT	REVISED -
		CHECKED - JJE	REVISED -
		DATE - 5/3/2012	REVISED -

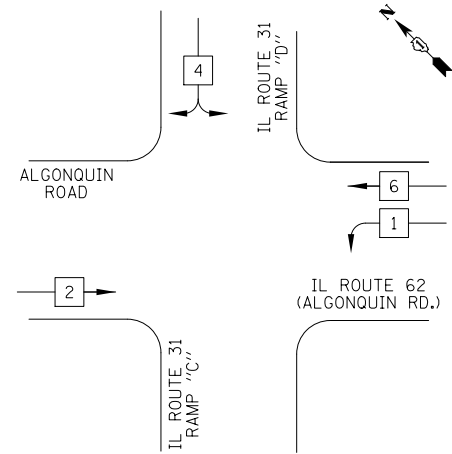
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN  
IL ROUTE 31 RAMPS C & D AT IL ROUTE 62 (ALGONQUIN RD.)**

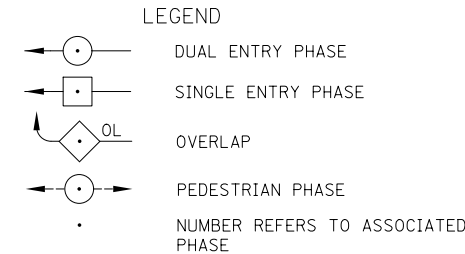
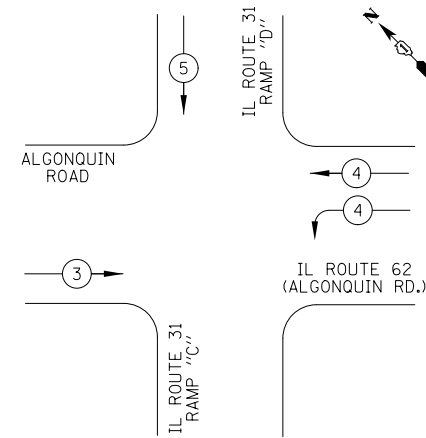
SCALE: 1"=20'      SHEET NO. 2 OF 2 SHEETS      STA.      TO STA.

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	274
<b>CONTRACT NO. 60F72</b>				
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				

PROPOSED CONTROLLER SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	→	↗	↓

PHASE DESIGNATION DIAGRAM

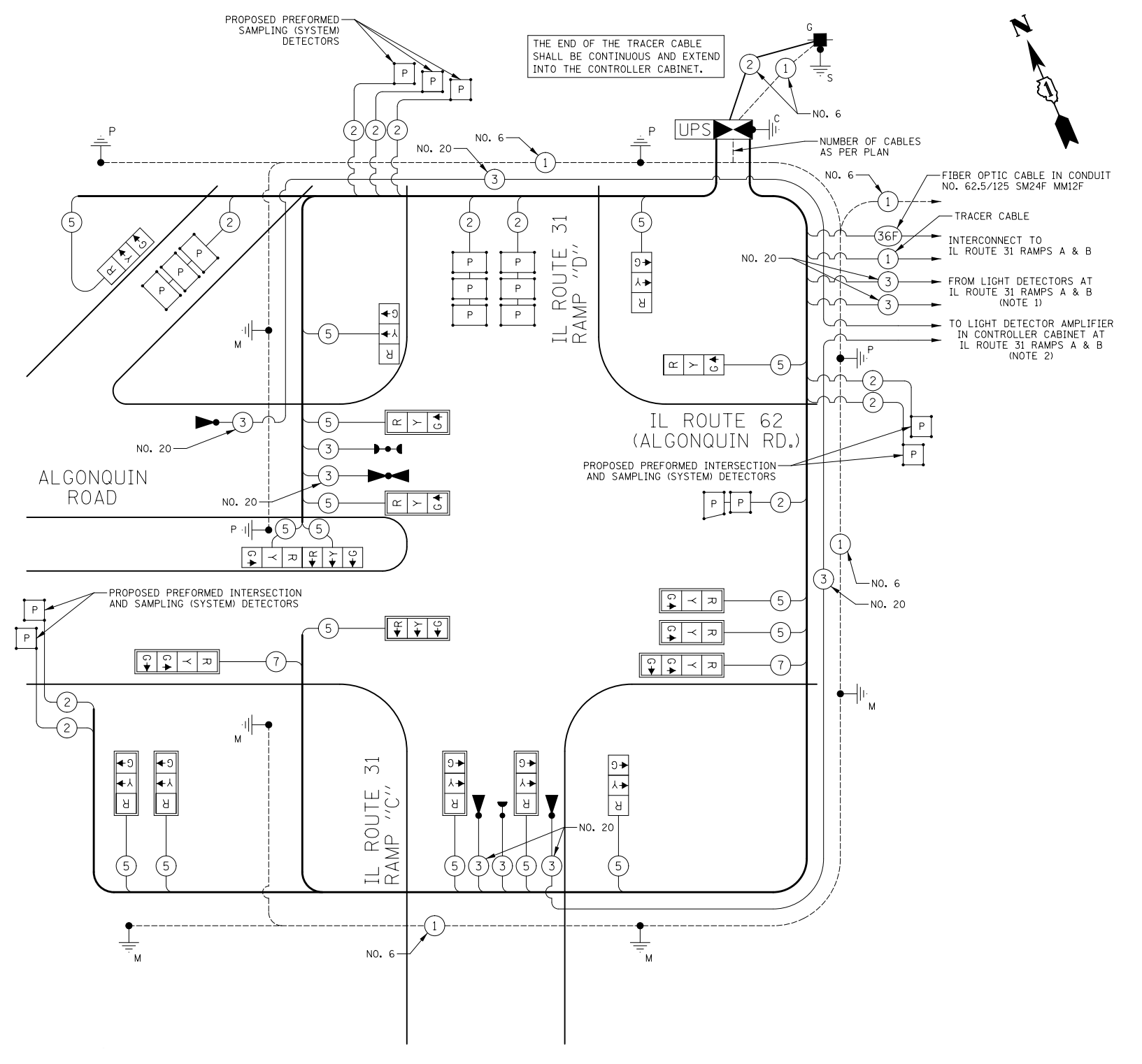
SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
CHANGEABLE MESSAGE SIGN	MONTH	1
SIGN PANEL - TYPE 1	SQ FT	10
SERVICE INSTALLATION, POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	741
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	316
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	200
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	449
HANDHOLE	EACH	7
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	1
** PAINT NEW TRAFFIC SIGNAL POST	EACH	4
** PAINT NEW MAST ARM AND POLE, UNDER 40 FOOT	EACH	3
** PAINT NEW MAST ARM AND POLE, 40 FOOT AND OVER	EACH	1
** PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FOOT	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
* ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	370
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3333
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	524
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3084
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	247
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1392
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	47
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	11
INDUCTIVE LOOP DETECTOR	EACH	11
PREFORMED DETECTOR LOOP	FOOT	711
LIGHT DETECTOR	EACH	4
* LIGHT DETECTOR AMPLIFIER	EACH	1
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1652
* FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	18	17	0.50		153
(YELLOW)	18	25	0.25		113
(GREEN)	20	15	0.25		75
ARROW	-	12	0.10		-
PED. SIGNAL	-	25	1.00		-
CONTROLLER	1	100	1.00		100
FLASHER				0.50	
TOTAL =					441

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: MIKE LENOX  
PHONE: (815) 490-2869  
COMPANY: COM ED



CABLE PLAN  
NOT TO SCALE

CABLE PLAN NOTES

- THESE CABLES ARE CONNECTED TO LIGHT DETECTORS ON THE NORTHWEST DUAL MAST ARM AT THE IL ROUTE 31 RAMPS A & B INTERSECTION. THOSE DETECTORS PLACE A CALL IN EMERGENCY VEHICLE PREEMPTION PHASE 4 AT THIS INTERSECTION.
- THESE CABLES ARE CONNECTED TO THE LIGHT DETECTOR AMPLIFIER IN THE CONTROLLER CABINET AT THE IL ROUTE 31 RAMPS A & B INTERSECTION. THE CORRESPONDING LIGHT DETECTORS PLACE A CALL IN EMERGENCY VEHICLE PREEMPTION PHASE 3 AT THAT INTERSECTION.

NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME = ... \D160F72-sht-ts-13.dgn	USER NAME = akw	DESIGNED - BRD	REVISED -
		DRAWN - OJT	REVISED -
		CHECKED - JJE	REVISED -
		DATE - 5/3/2012	REVISED -

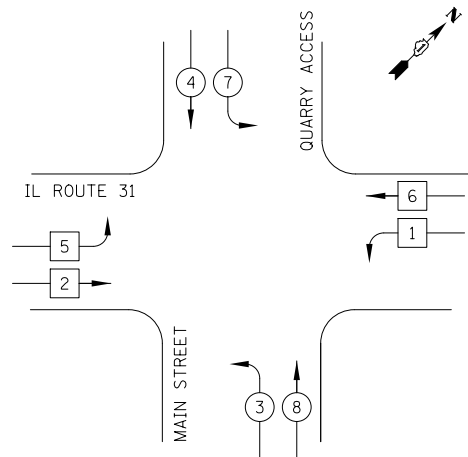
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
EMERGENCY VEHICLE PREEMPTION SEQUENCE & SCHEDULE OF QUANTITIES  
IL ROUTE 31 RAMPS C & D AT IL ROUTE 62 (ALGONQUIN RD.)

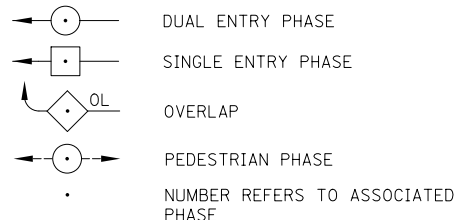
O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	275
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



PROPOSED CONTROLLER SEQUENCE

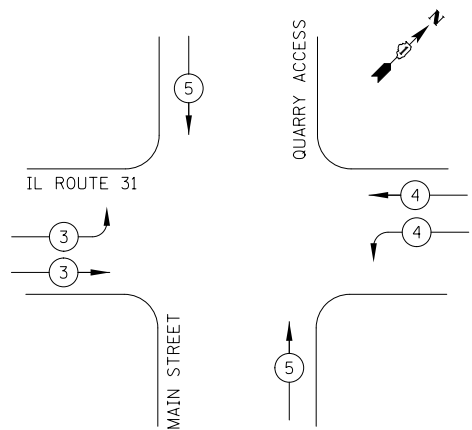


LEGEND



PHASE DESIGNATION DIAGRAM

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
CHANGEABLE MESSAGE SIGN	MONTH	2
SIGN PANEL - TYPE 1	SQ FT	46
SERVICE INSTALLATION, GROUND MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	991
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	55
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	67
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	541
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	2
PAINT NEW TRAFFIC SIGNAL POST	EACH	4
PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	4
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	626
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3412
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	902
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3720
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	215
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1039
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 55 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT. (SPECIAL)	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	56
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	9
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	11
INDUCTIVE LOOP DETECTOR	EACH	12
PREFORMED DETECTOR LOOP	FOOT	923
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	626
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	19		17	0.50	162
(YELLOW)	19		25	0.25	119
(GREEN)	19		15	0.25	71
ARROW	8		12	0.10	10
PED. SIGNAL	-		25	1.00	-
CONTROLLER	1		100	1.00	100
TOTAL =					462

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: MIKE LENOX  
PHONE: (815) 490-2869  
COMPANY: COM ED

PROPOSED PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

FIBER OPTIC CABLE NO. 62.5/125, SM24F MM12F  
INTERCONNECT TO IL ROUTE 62 (ALGONQUIN RD.)  
TRACER CABLE

NUMBER OF CABLES AS PER PLAN

THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

CABLE PLAN  
NOT TO SCALE

NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

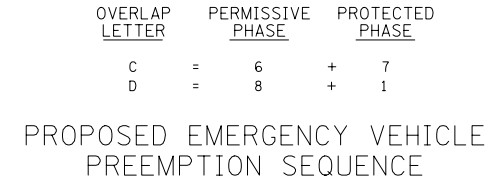
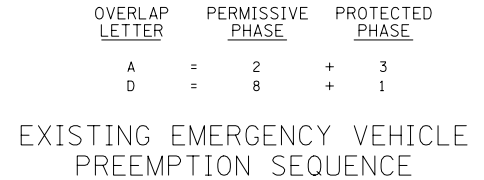
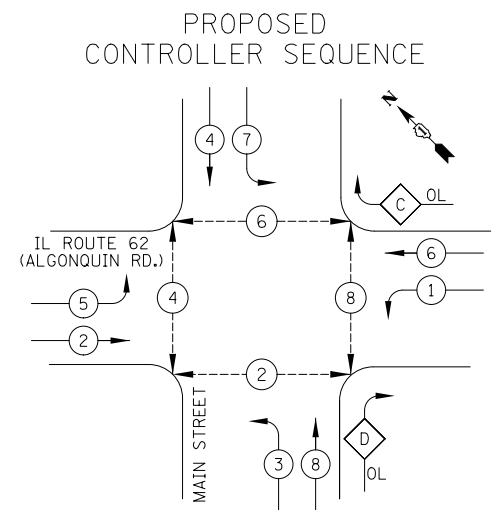
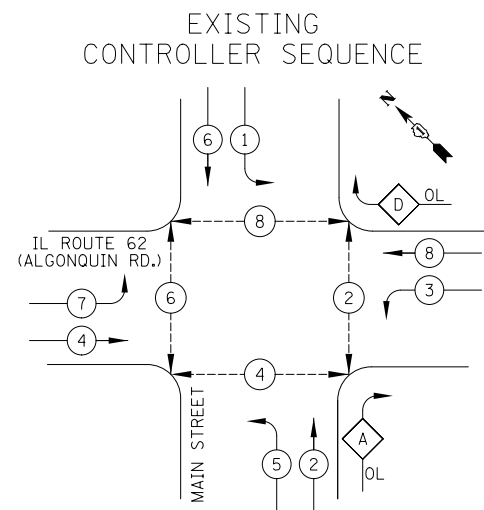
FILE NAME = ... \D160F72-sht-ts-15.dgn	USER NAME = akw	DESIGNED - BRD	REVISED -
		DRAWN - OJT	REVISED -
		CHECKED - JJE	REVISED -
		DATE - 5/3/2012	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
EMERGENCY VEHICLE PREEMPTION SEQUENCE & SCHEDULE OF QUANTITIES  
IL ROUTE 31 AT MAIN STREET/QUARRY ACCESS

SCALE: NO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	277
CONTRACT NO. 60F72			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



#### EXISTING EMERGENCY VEHICLE PREEMPTORS

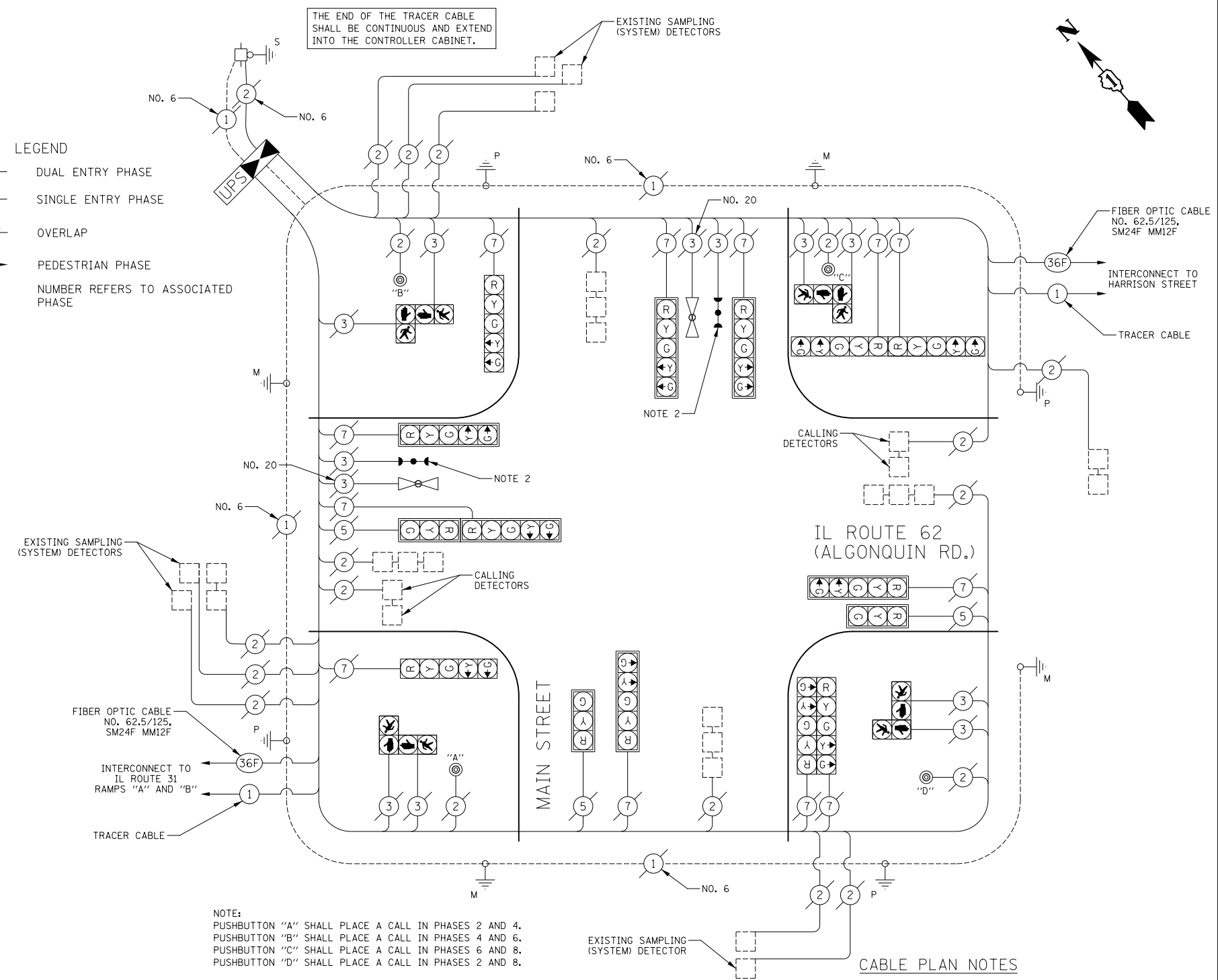
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↓ ↑	← →

#### PROPOSED EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓ ↑

#### LEGEND

- DUAL ENTRY PHASE
- ◻ SINGLE ENTRY PHASE
- ◊ OL OVERLAP
- ◻ PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE



NOTE:  
 PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4.  
 PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6.  
 PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8.  
 PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8.

#### CABLE PLAN NOTES

- A RED-LIGHT ENFORCEMENT CAMERA IS IN OPERATION AT THIS LOCATION. INQUIRIES REGARDING THE ENFORCEMENT CAMERA SHOULD BE DIRECTED TO THE FOLLOWING:  
 MUNICIPALITY: WILLIAM J. GANEK  
 VILLAGE MANAGER  
 VILLAGE OF ALGONQUIN  
 (847) 658-2700 x2200  
 CAMERA VENDOR: DAVE WADDELL  
 ACS  
 (630) 335-0415
- REPLACEMENT OF THE EXISTING CONFIRMATION BEACONS WITH NEW LED CONFIRMATION BEACONS SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTABLE POWER SUPPLY, SPECIAL".

NOTE:  
 THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE RELOCATED TO THE PROPOSED CONTROLLER CABINET. THE CONTRACTOR SHALL SAFELY STORE ALL EQUIPMENT TO BE RELOCATED TO THE PROPOSED CABINET AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 1 EACH EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT

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

- 1 EACH CONTROLLER AND CABINET, COMPLETE

#### SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCIVER - FIBER OPTIC	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	15
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

\* 100% COST TO ALGONQUIN-LAKE IN THE HILLS FIRE PROTECTION DISTRICT

#### I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	15	17	0.50		128
(YELLOW)	15	25	0.25		94
(GREEN)	15	15	0.25		56
ARROW	24	12	0.10		29
PED. SIGNAL	8	25	1.00		200
CONTROLLER	1	100	1.00		100
FLASHER			0.50		
TOTAL =					607

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096  
 ENERGY SUPPLY: CONTACT: MIKE LENOX  
 PHONE: (815) 490-2869  
 COMPANY: COM ED

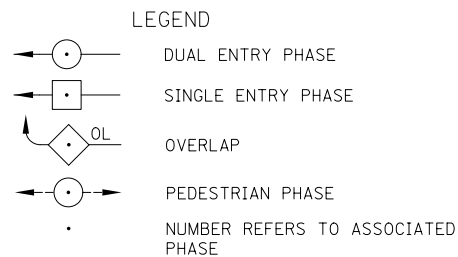
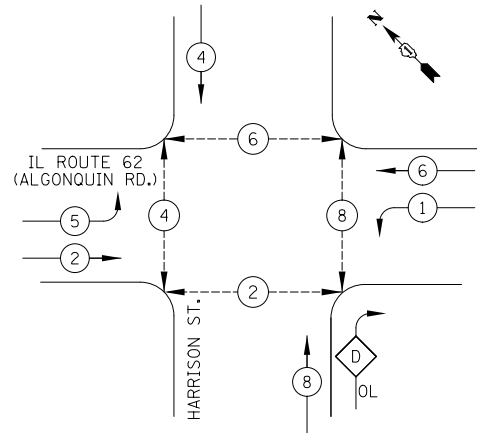
FILE NAME = ... \D160F72-sht-ts-16.dgn	USER NAME = akw	DESIGNED - BRD	REVISED -
		DRAWN - OJT	REVISED -
		CHECKED - JJE	REVISED -
		DATE - 5/3/2012	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
 EMERGENCY VEHICLE PREEMPTION SEQUENCE & SCHEDULE OF QUANTITIES  
 IL ROUTE 62 (ALGONQUIN RD.) AT MAIN STREET

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	278
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

EXISTING AND PROPOSED CONTROLLER SEQUENCE

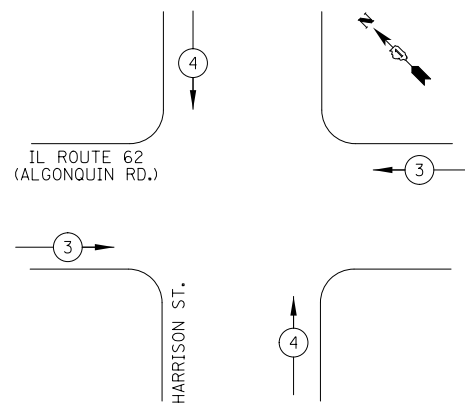


PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	= 8	+ 1

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MASTER CONTROLLER (SPECIAL)	EACH	1
TRANSCIVER - FIBER OPTIC	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	11
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
FULL-ACTUATED CONTROLLER AND CABINET, TYPE V, SPECIAL	EACH	1

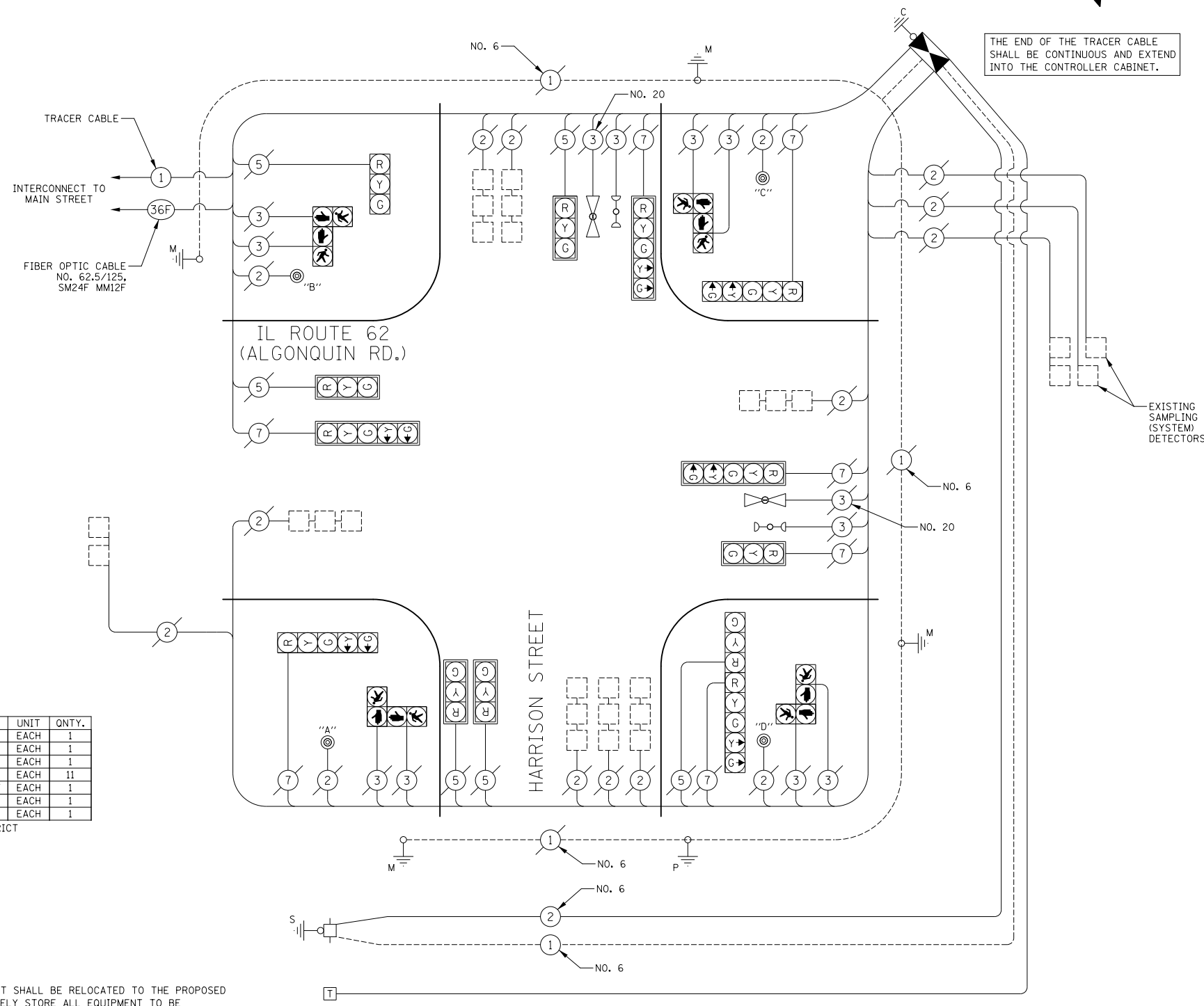
\*100% COST TO ALGONQUIN-LAKE IN THE HILLS FIRE PROTECTION DISTRICT

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE RELOCATED TO THE PROPOSED CONTROLLER CABINET. THE CONTRACTOR SHALL SAFELY STORE ALL EQUIPMENT TO BE RELOCATED TO THE PROPOSED CABINET AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

1 EACH EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT

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

1 EACH CONTROLLER AND CABINET, COMPLETE



CABLE PLAN  
(NOT TO SCALE)

NOTE:  
PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4.  
PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6.  
PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8.  
PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8.

NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	13	135		0.50	878
(YELLOW)	13	135		0.25	439
(GREEN)	13	135		0.25	439
ARROW	12	135		0.10	162
PED. SIGNAL	8	90		1.00	720
CONTROLLER	1		100	1.00	100
FLASHER				0.50	
TOTAL =					2738

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: MIKE LENOX  
PHONE: (815) 490-2869  
COMPANY: COM ED

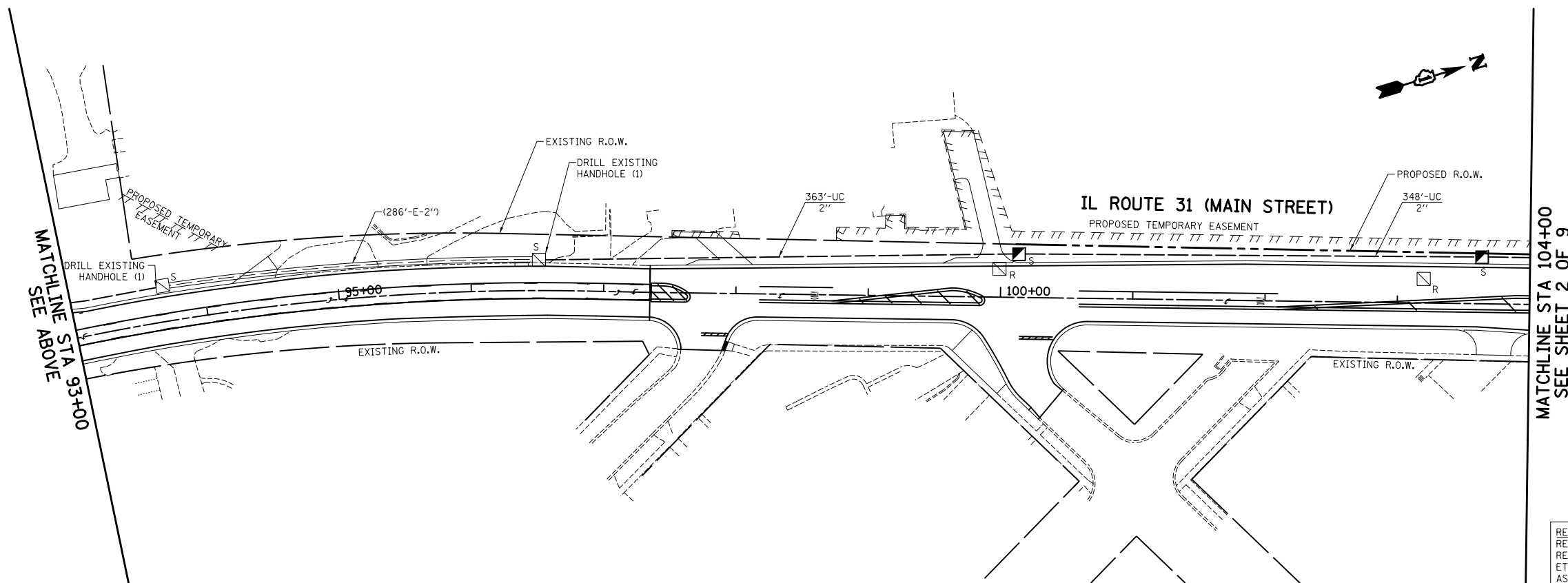
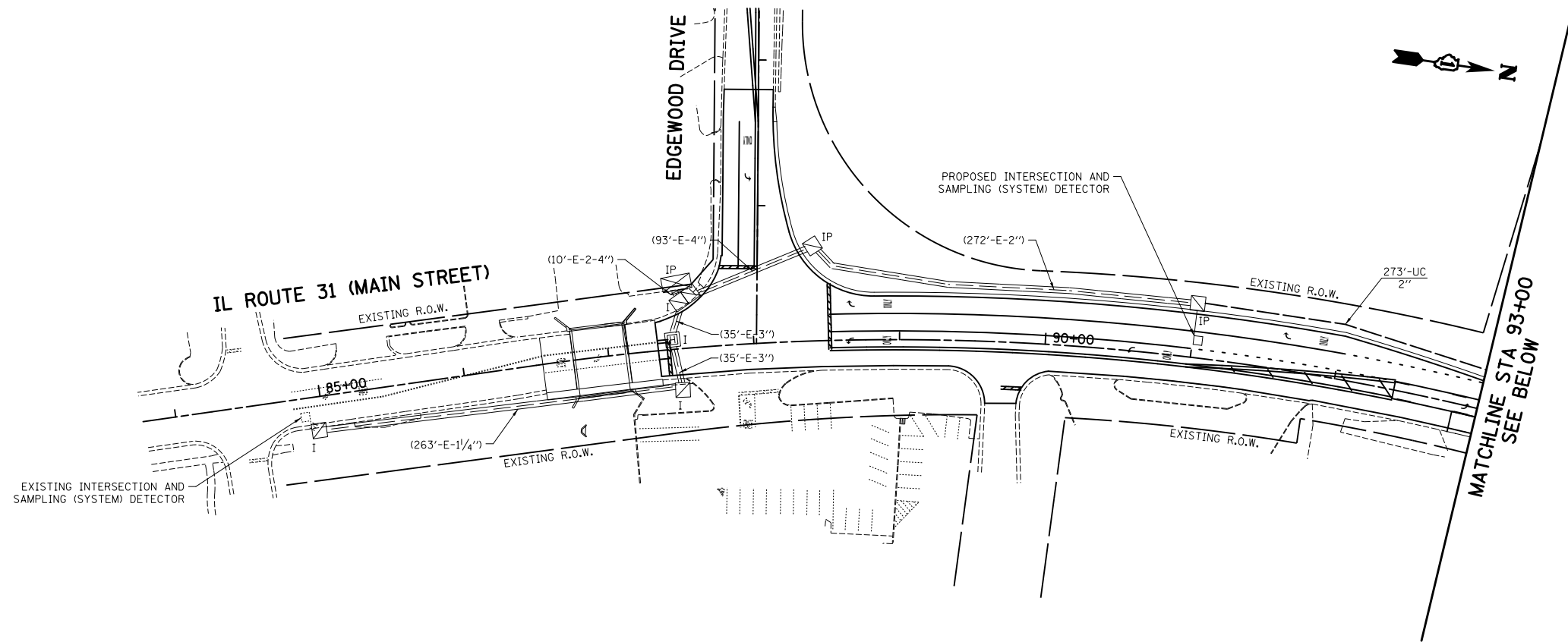
FILE NAME = ... \D160F72-sht-ts-17.dgn	USER NAME = akw	DESIGNED - BRD	REVISED -
		DRAWN - OJT	REVISED -
		CHECKED - JJE	REVISED -
		DATE - 5/3/2012	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
EMERGENCY VEHICLE PREEMPTION SEQUENCE & SCHEDULE OF QUANTITIES  
IL ROUTE 62 (ALGONQUIN RD.) AT HARRISON STREET

SCALE: NO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	279
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

**RESTORATION OF WORK AREA.**  
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

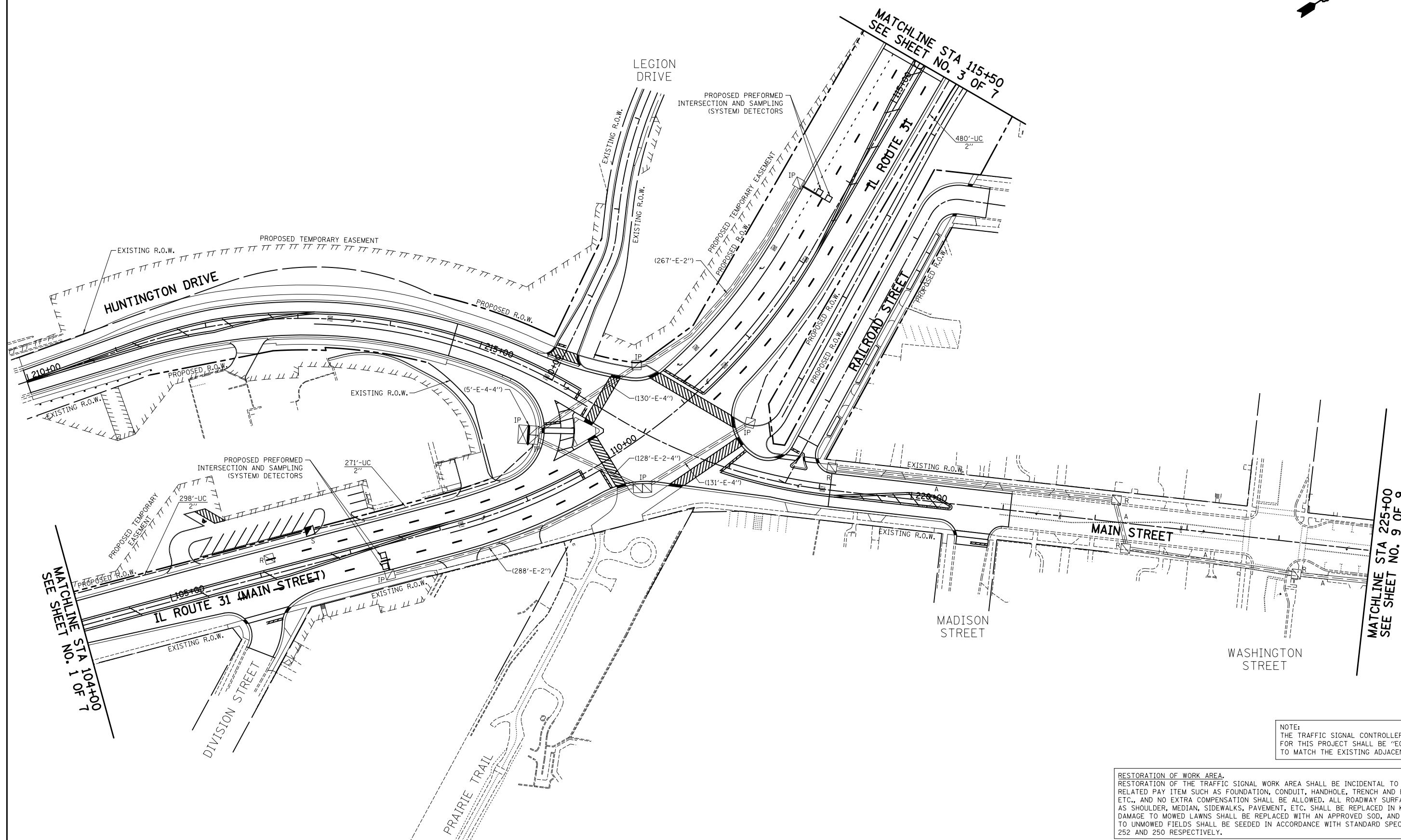
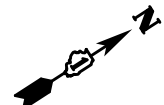
FILE NAME = ... \D160F72-sh-t-ts-18.dgn	USER NAME = okw	DESIGNED - BRD	REVISED -
		DRAWN - OJT	REVISED -
	PLOT SCALE = 100.0000' / 1in.	CHECKED - JJE	REVISED -
	PLOT DATE = 5/2/2012	DATE - 5/3/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INTERCONNECT PLAN  
IL ROUTE 31  
EDGEWOOD DRIVE TO KLASEN ROAD**

SCALE: 1"=50'      SHEET NO. 1 OF 9 SHEETS      STA. 84+00 TO STA. 104+00

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	280
<b>CONTRACT NO. 60F72</b>				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM

RESTORATION OF WORK AREA.  
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

FILE NAME =  
... \D160F72-sht-ts-19.dgn

USER NAME = akw  
DESIGNED - BRD  
DRAWN - OJT  
PLOT SCALE = 100.0000' / in.  
CHECKED - JJE  
PLOT DATE = 5/2/2012  
DATE - 5/3/2012

REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

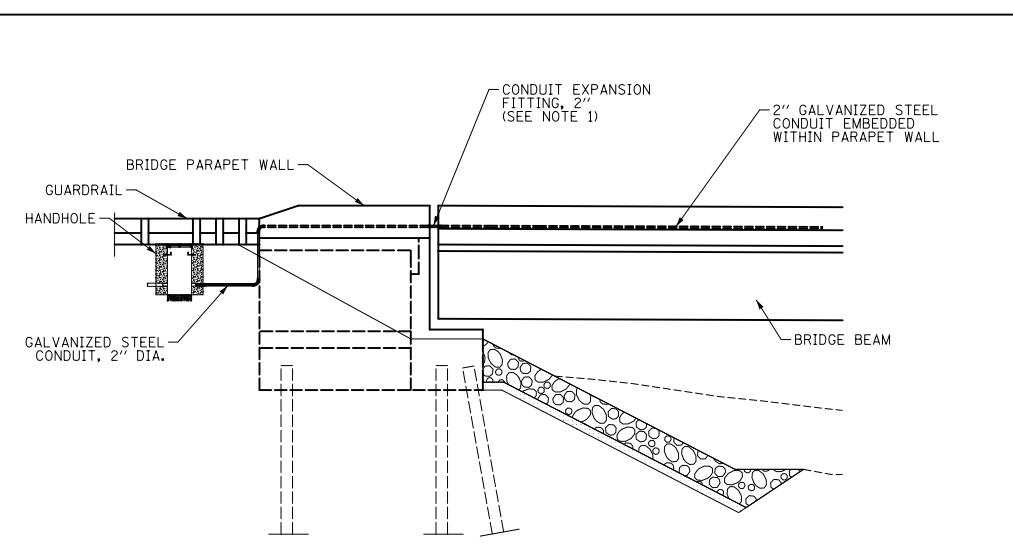
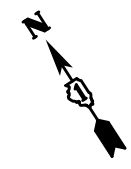
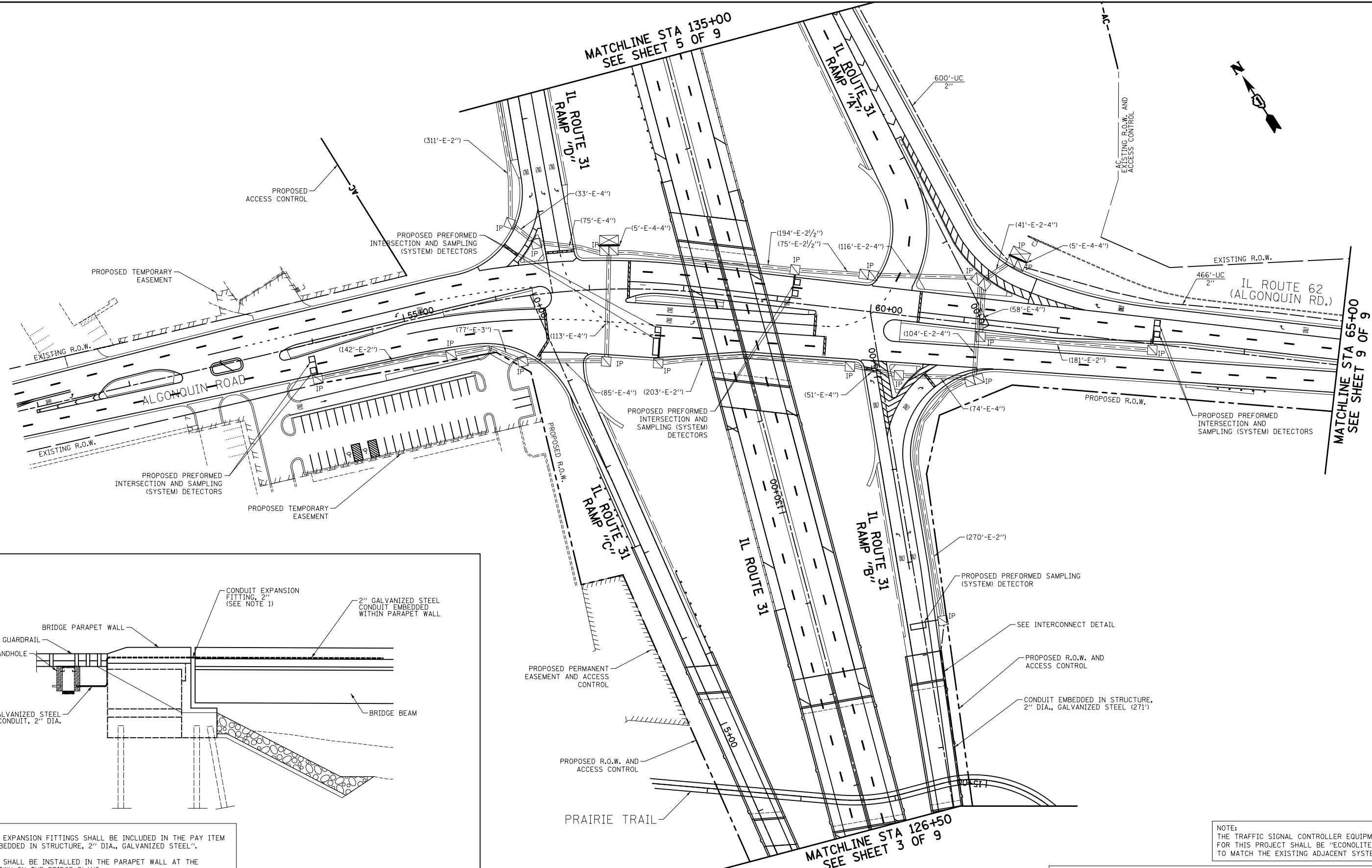
**TRAFFIC SIGNAL INTERCONNECT PLAN  
IL ROUTE 31  
EDGEWOOD DRIVE TO KLASEN ROAD**

SCALE: 1"=50' SHEET NO. 2 OF 9 SHEETS STA. 104+00 TO STA. 115+50

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	281
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				







- NOTES:
1. THE CONDUIT EXPANSION FITTINGS SHALL BE INCLUDED IN THE PAY ITEM "CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., GALVANIZED STEEL".
  2. THE CONDUIT SHALL BE INSTALLED IN THE PARAPET WALL AT THE LOCATION SHOWN ON THE BRIDGE PLANS.

**INTERCONNECT DETAIL**  
**CONDUIT INSTALLATION IN STRUCTURE**  
 (NOT TO SCALE)

NOTE:  
 THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM

RESTORATION OF WORK AREA.  
 RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

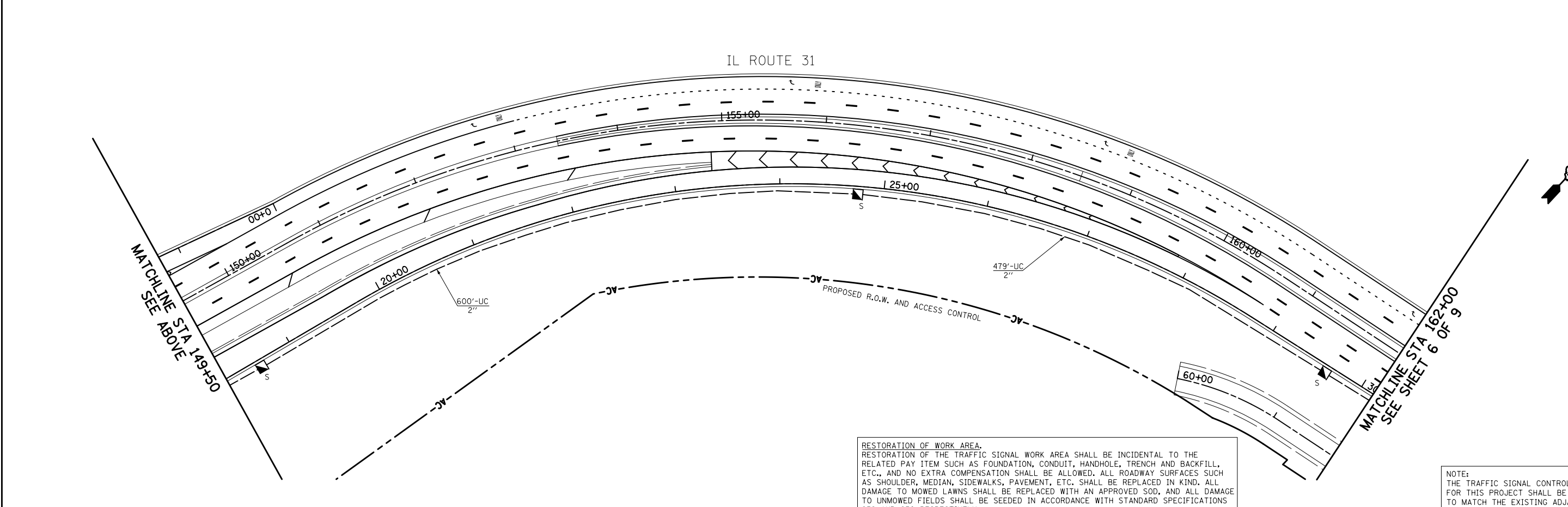
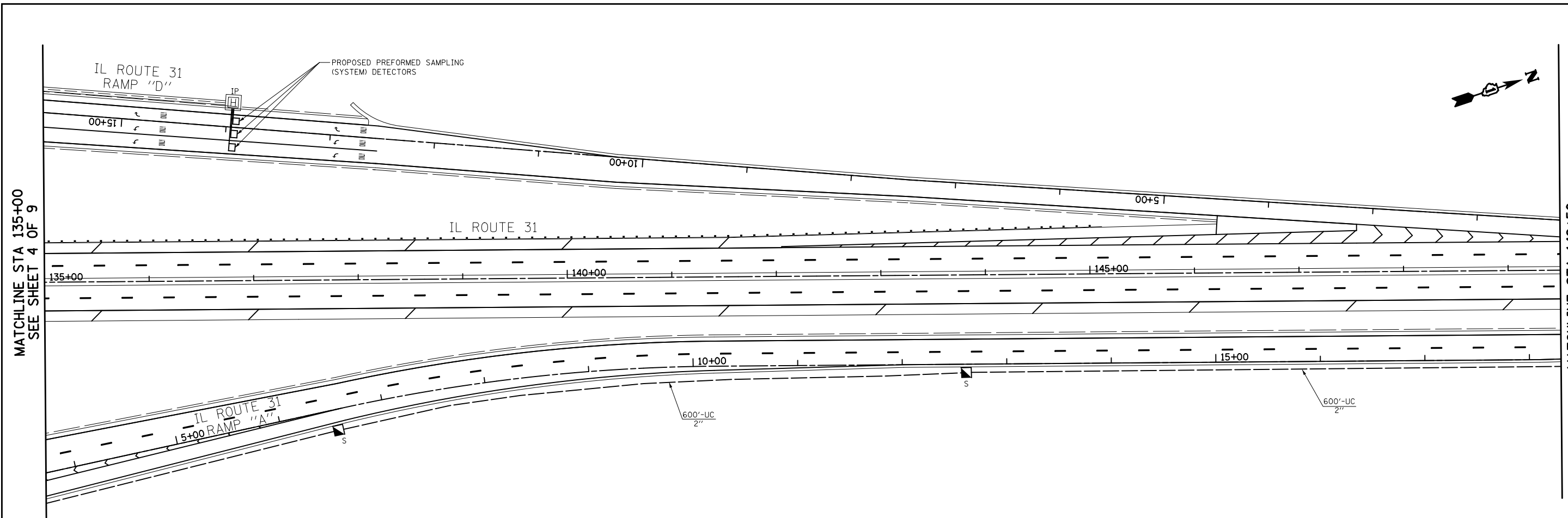
FILE NAME =	USER NAME = akw	DESIGNED - BRD	REVISED -
...\\D160F72-sht-ts-21.dgn		DRAWN - OJT	REVISED -
	PLOT SCALE = 100.0000' / 1" =	CHECKED - JJE	REVISED -
	PLOT DATE = 5/2/2012	DATE - 5/3/2012	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INTERCONNECT PLAN**  
**IL ROUTE 31**  
**EDGEWOOD DRIVE TO KLASEN ROAD**

SCALE: 1"=50' SHEET NO. 4 OF 9 SHEETS STA. 126+50 TO STA. 135+00

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	283
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**RESTORATION OF WORK AREA.**  
 RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

**NOTE:**  
 THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM

FILE NAME =  
 ...\\D160F72-sht-ts-22.dgn

USER NAME = akw  
 DESIGNED - BRD  
 DRAWN - OJT  
 PLOT SCALE = 100.0000' / in.  
 CHECKED - JJE  
 PLOT DATE = 5/2/2012  
 DATE - 5/3/2012

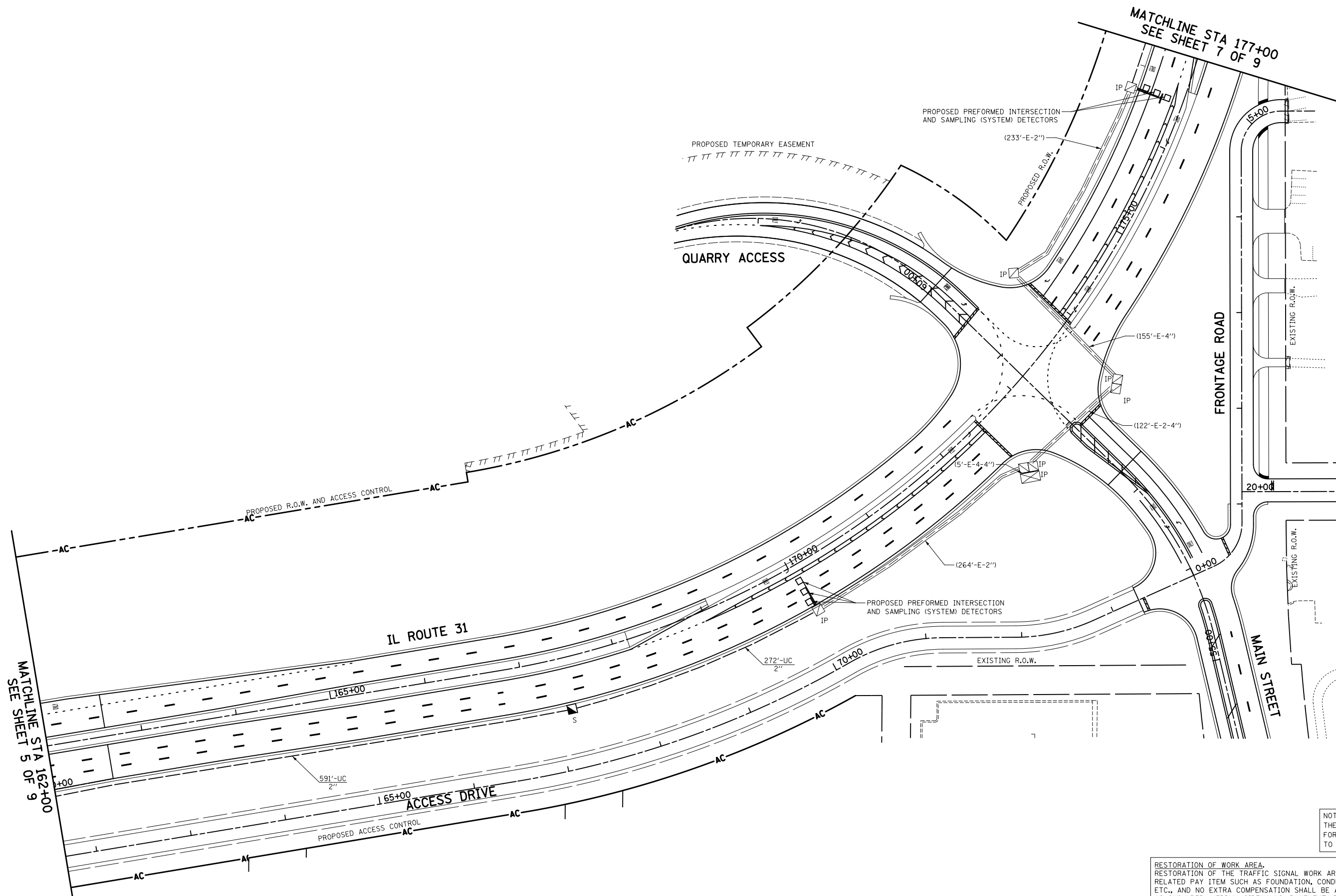
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INTERCONNECT PLAN  
 IL ROUTE 31  
 EDGEWOOD DRIVE TO KLASEN ROAD**

SCALE: 1"=50' SHEET NO. 5 OF 9 SHEETS STA. 135+00 TO STA. 162+00

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	284
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

RESTORATION OF WORK AREA.  
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

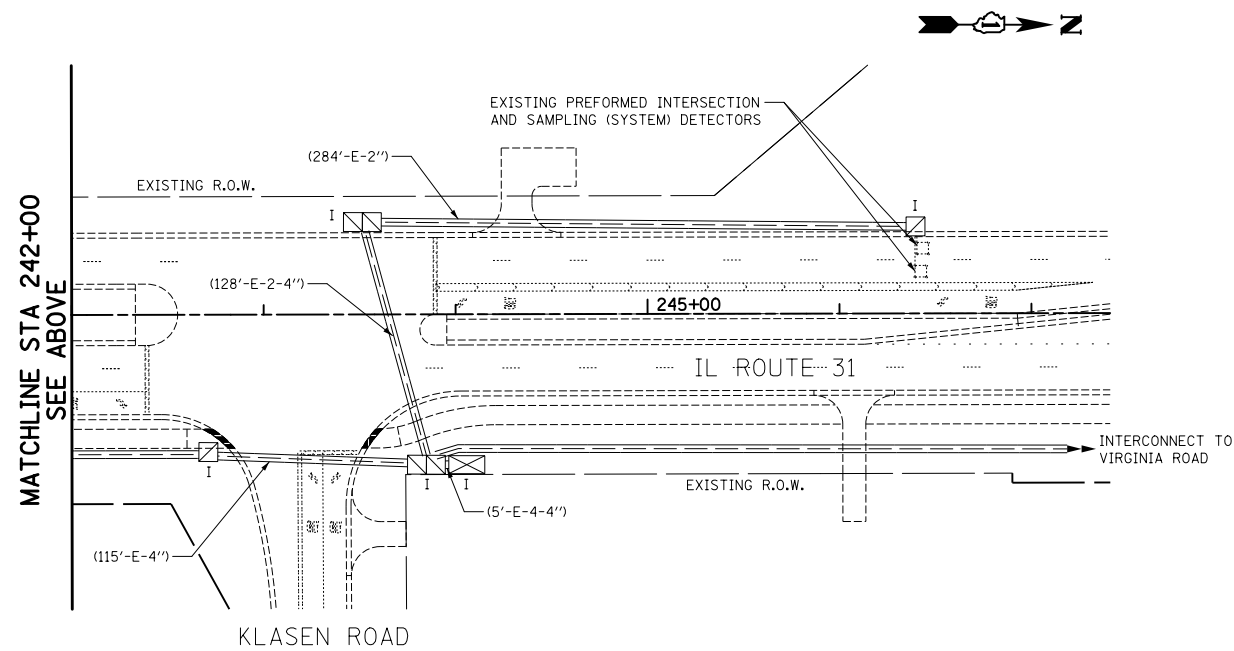
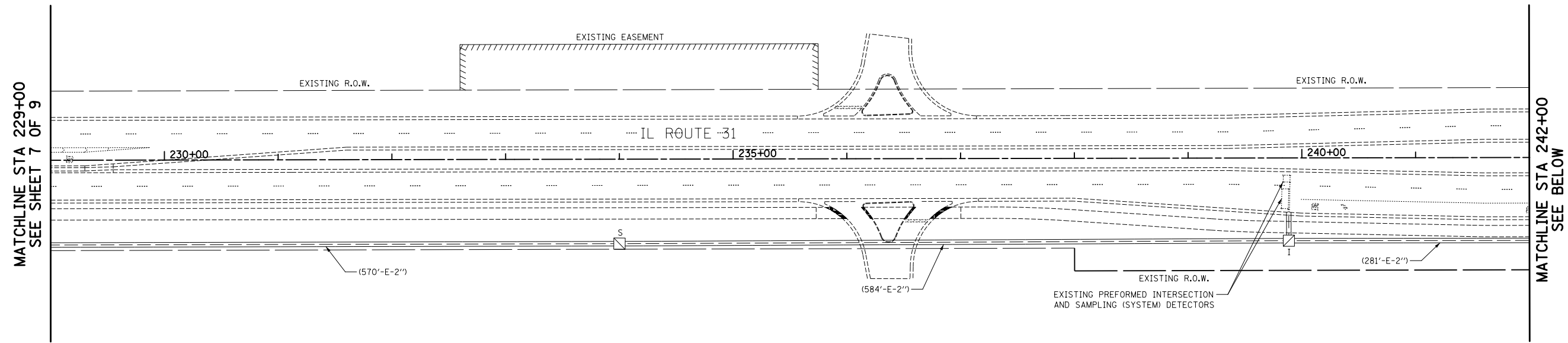
FILE NAME = ... \D160F72-sht-ts-23.dgn	USER NAME = akw	DESIGNED - BRD	REVISED -
		DRAWN - OJT	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 5/2/2012	DATE - 5/3/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TRAFFIC SIGNAL INTERCONNECT PLAN</b>		
<b>IL ROUTE 31</b>		
<b>EDGEWOOD DRIVE TO KLASEN ROAD</b>		
SCALE: 1"=50'	SHEET NO. 6 OF 9 SHEETS	STA. 162+00 TO STA. 177+00

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	285
<b>CONTRACT NO. 60F72</b>				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

RESTORATION OF WORK AREA.  
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

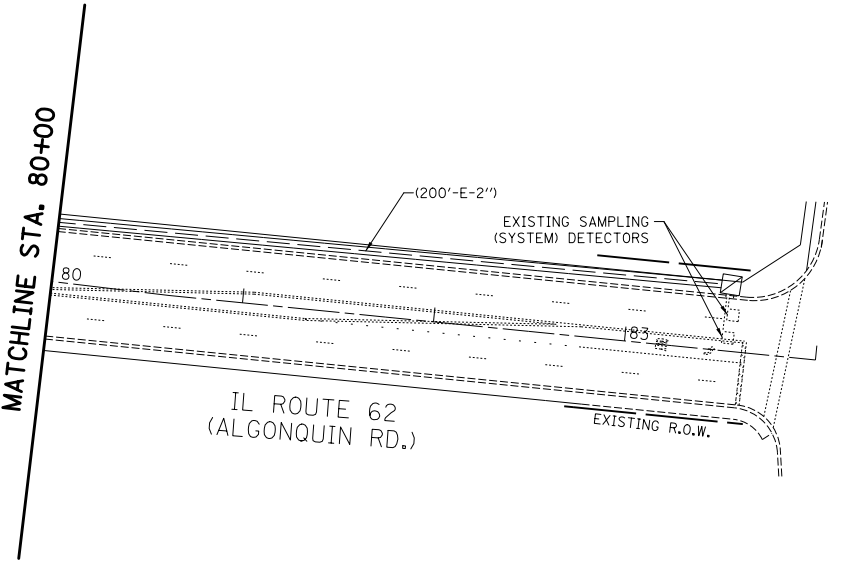
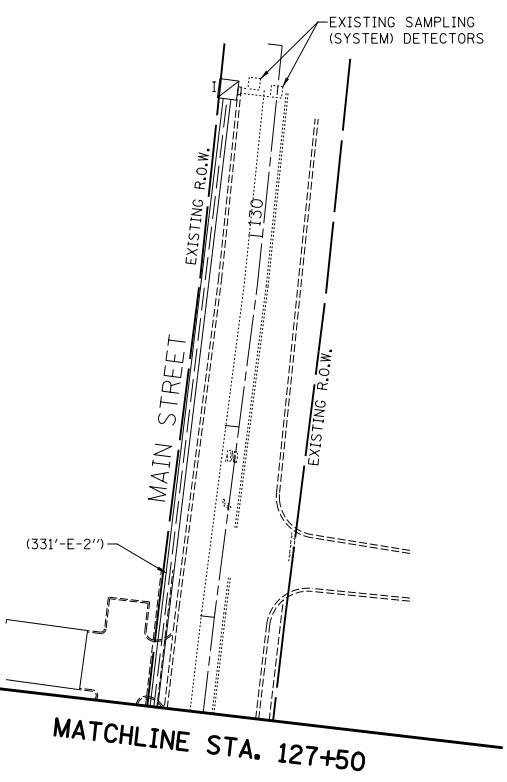
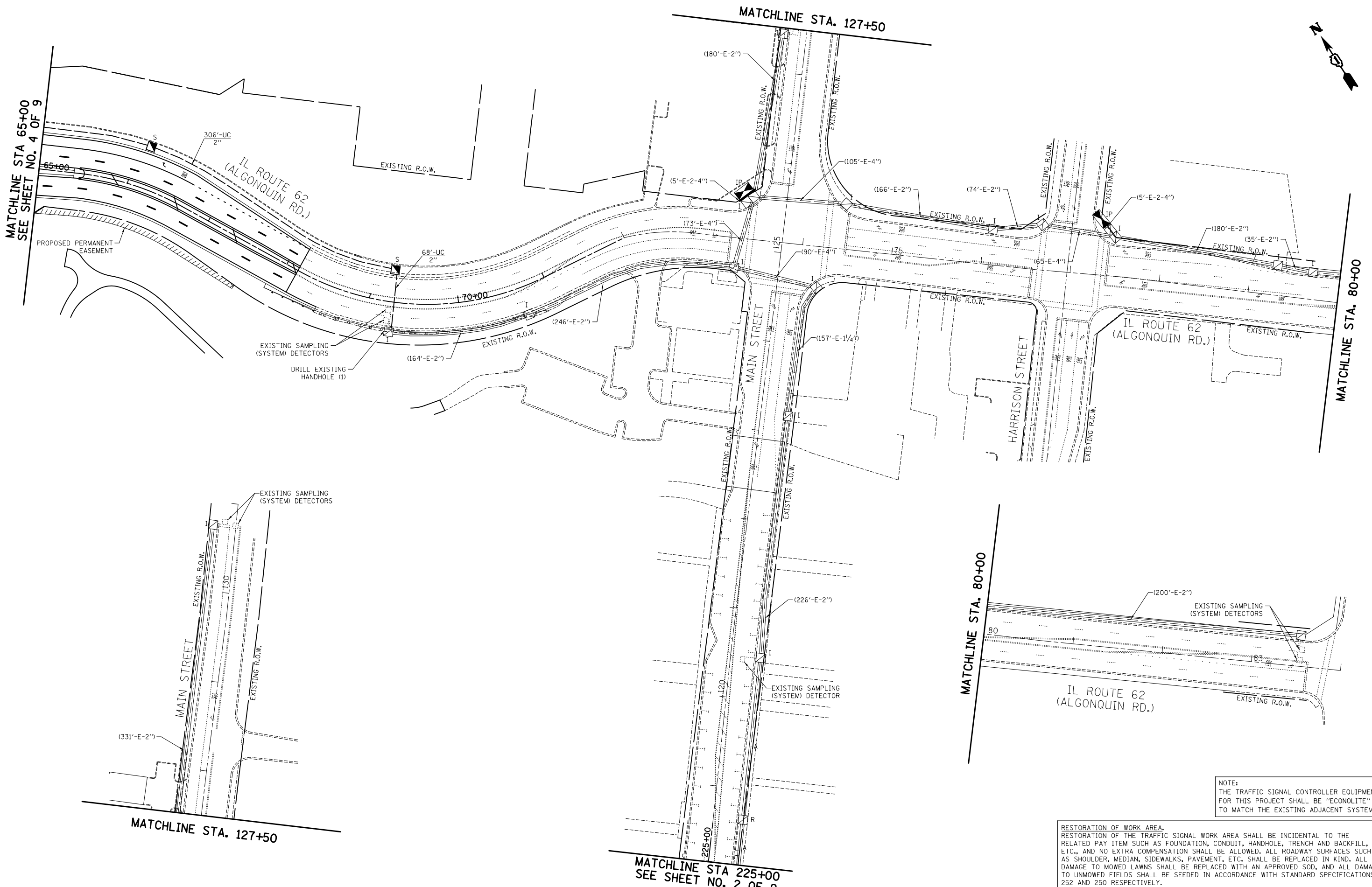
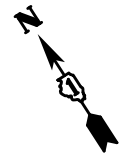
FILE NAME = ... \D160F72-sh-t-ts-25.dgn	USER NAME = okw	DESIGNED - BRD	REVISED -
	PLOT SCALE = 100.0000' / in.	DRAWN - OJT	REVISED -
	PLOT DATE = 5/2/2012	CHECKED - JJE	REVISED -
		DATE - 5/3/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INTERCONNECT PLAN  
IL ROUTE 31  
EDGEWOOD DRIVE TO KLASSEN ROAD**

SCALE: 1"=50'      SHEET NO. 8 OF 9 SHEETS      STA. 229+00 TO STA. 245+40

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	287
<b>CONTRACT NO. 60F72</b>				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

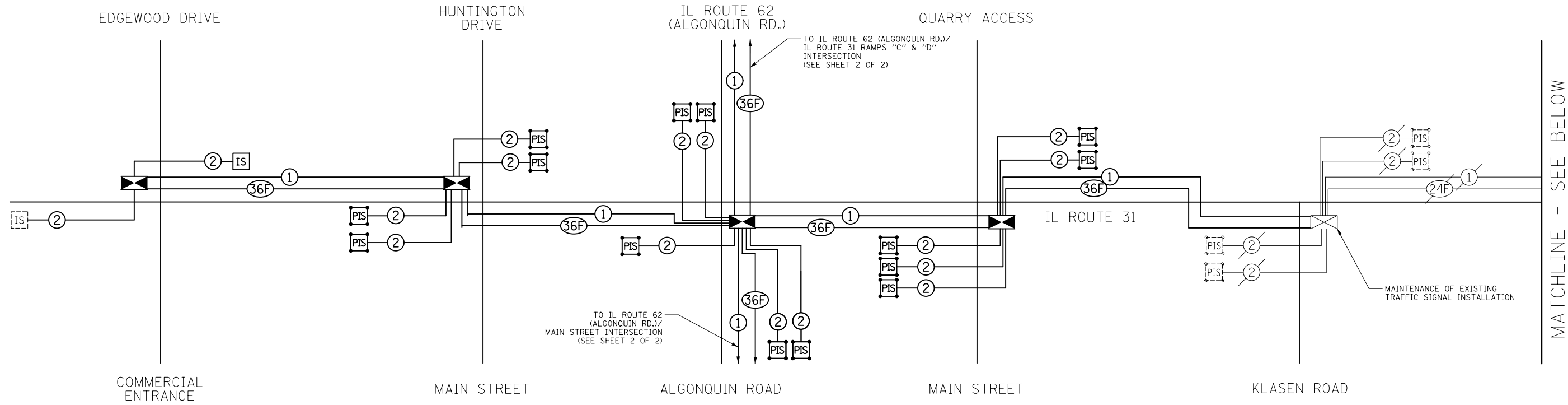
RESTORATION OF WORK AREA.  
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

FILE NAME = ... \D160F72-sht-ts-26.dgn	USER NAME = akw	DESIGNED - BRD	REVISED -
		DRAWN - OJT	REVISED -
		CHECKED - JJE	REVISED -
		DATE - 5/3/2012	REVISED -

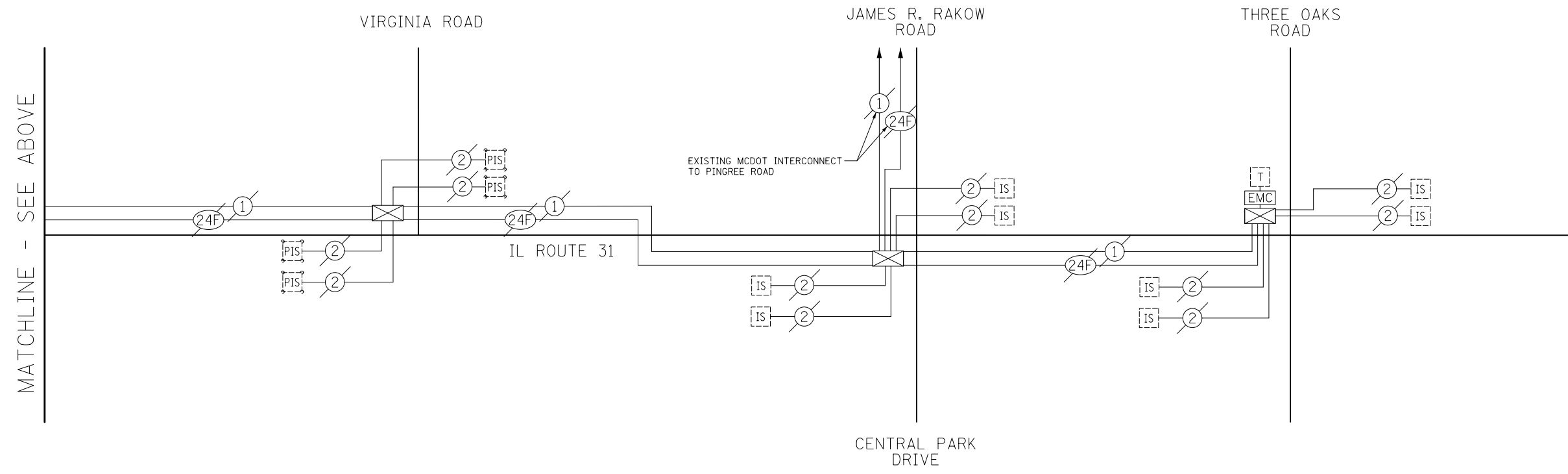
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INTERCONNECT PLAN			
IL ROUTE 62			
IL ROUTE 31 RAMPS CD TO HARRISON STREET			
SCALE: 1"=50'	SHEET NO. 9 OF 9 SHEETS	STA. 65+00 TO STA. 84+00	

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	288
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



MATCHLINE - SEE BELOW

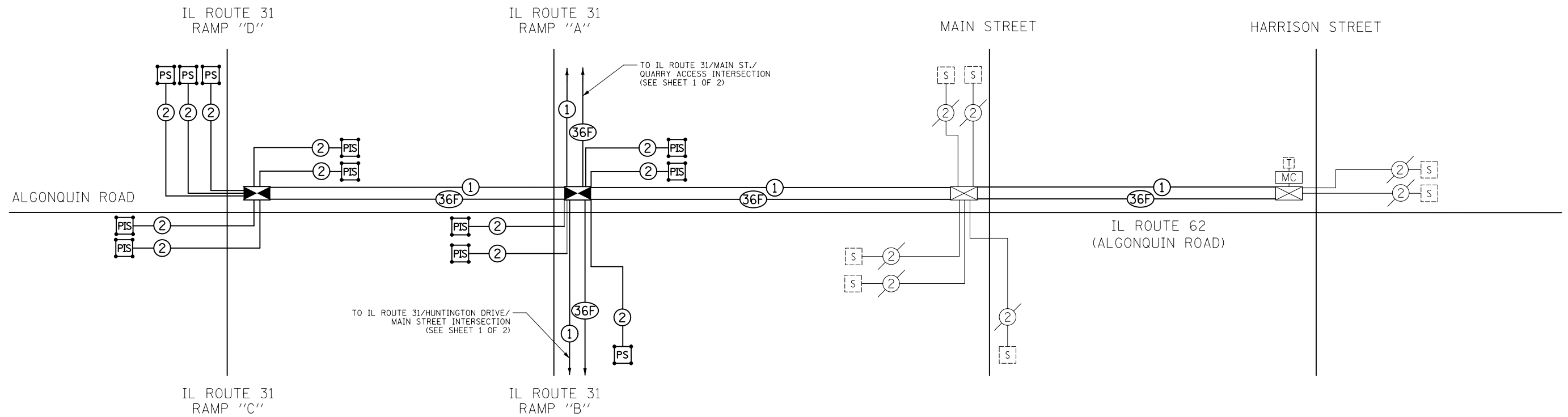


MATCHLINE - SEE ABOVE

NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME = ... \D160F72-sh-t-ts-27.dgn	USER NAME = akw	DESIGNED - BRD	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INTERCONNECT SCHEMATIC IL ROUTE 31 EDGEWOOD DRIVE TO THREE OAKS ROAD</b>			O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 39.9999' / in.	CHECKED - JJE	REVISED -		SCALE: NO SCALE	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	0003	18A-2	MCHENRY	825
PLOT DATE = 5/2/2012	DATE - 5/3/2012	REVISED -						CONTRACT NO. 60F72				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT





INTERCONNECT SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	7866
CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	271
HANDHOLE	EACH	14
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	16369
DRILL EXISTING HANDHOLE	EACH	3
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1893
REMOVE EXISTING HANDHOLE	EACH	8
ROD AND CLEAN EXISTING CONDUIT	FOOT	286
CONDUIT SPLICE	EACH	1
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	16530
OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	2
REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	1939

NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

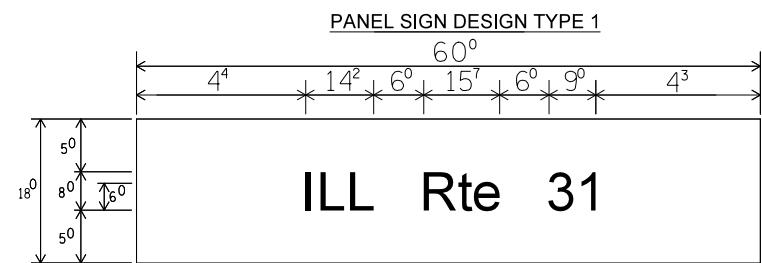
FILE NAME = ... \D160F72-sh-t-ts-28.dgn	USER NAME = okw	DESIGNED - BRD	REVISED -
		DRAWN - OJT	REVISED -
		CHECKED - JJE	REVISED -
		DATE - 5/3/2012	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

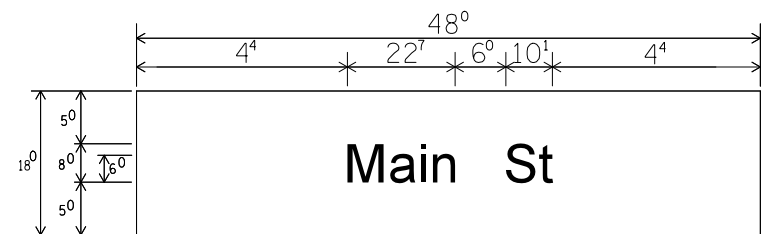
INTERCONNECT SCHEMATIC  
IL ROUTE 62 (ALGONQUIN RD.)  
IL ROUTE 31 RAMPS "C" & "D" TO HARRISON STREET

SCALE: NO SCALE SHEET NO. 1 OF 2 SHEETS STA. TO STA.

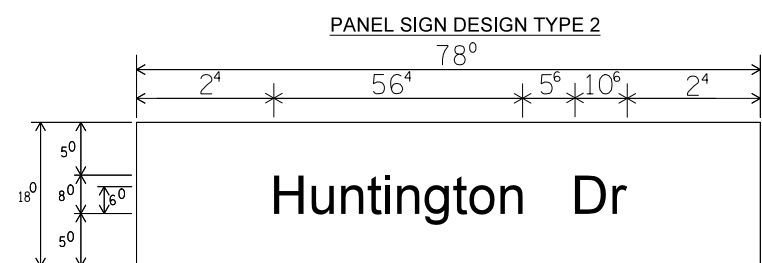
O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	290
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



Sq. M Each 7.50 Sq. Ft. Each 4 Required Design Series D



Sq. M Each 6.00 Sq. Ft. Each 4 Required Design Series D



Sq. M Each 9.75 Sq. Ft. Each 2 Required Design Series D

**NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS.**

**GENERAL NOTES**

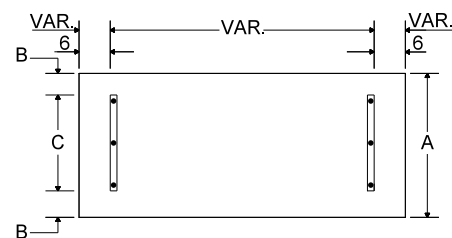
- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
- THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 8'-0".
- ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 2-1/4".
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:

- J.O. HERBERT CO. MIDLOTHIAN, VA.
- WESTERN REMAC INC. WOODRIDGE, IL.

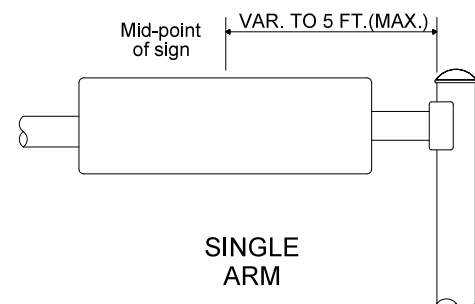
**PARTS LISTING:**  
 SIGN CHANNEL PART #HPN053 (MED. CHANNEL)  
 1/4" x 14 x 1" H.W.H. #3  
 SIGN SCREWS SELF TAPPING WITH NEOPRENE WASHER  
 BRACKETS PART #HPN034 (UNIVERSAL)  
 CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

**SUPPORTING CHANNELS**



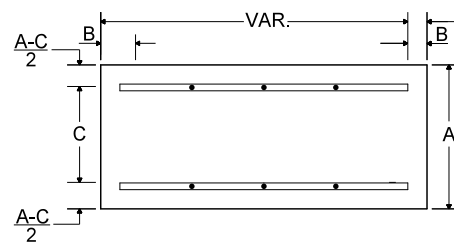
A	B	C
18"	2"	14"



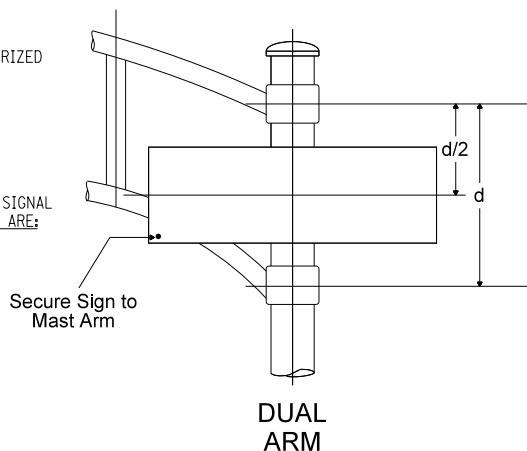
**SINGLE ARM**

**SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM shall be used. See Note #5.**

**SUPPORTING CHANNELS**



A	B	C
18"	2"	12"
30"	2"	22"



**DUAL ARM**

**UPPER TO LOWER CASE SPACING CHART 8-6 INCH SERIES "C & D"**

EXAMPLE, 2<sup>3</sup> DENOTES 3/8"

SERIES	SECOND LETTER															
	a c d e		b h i k		f w		j		s t		v y		x		z	
	g o q	r u														
A W X	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
B	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>
C E G	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
D O Q R	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
F	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>
H I M N	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>2</sup>	2 <sup>4</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>
J U	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>
K L	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
P	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
S	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
T	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>6</sup>	1 <sup>7</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
V	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
Y	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>5</sup>	0 <sup>7</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>
Z	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>2</sup>	2 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>

**LOWER CASE TO LOWER CASE SPACING CHART 6 INCH SERIES "C" & "D"**

SERIES	SECOND LETTER															
	a c d e		b h i k		f w		j		s t		v y		x		z	
	g o q	r u														
F																
I																
R																
S																
T																
L																
E																
T																
E																
R																

**NUMBER TO NUMBER**

**SPACING CHART 8 INCH SERIES "C" & "D"**

SERIES	SECOND NUMBER																			
	0		1		2		3		4		5		6		7		8		9	
0 9	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>
1	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>
2 3 4	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>
5	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
6	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
7	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>5</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>
8	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>

LETTERS	6 INCH UPPER CASE LETTERS				8 INCH UPPER CASE LETTERS				LETTERS	6 INCH LOWER CASE LETTERS			
	SERIES		SERIES		SERIES		SERIES			SERIES		SERIES	
	C	D	C	D	C	D	C	D		C	D	C	D
A	3 <sup>6</sup>	5 <sup>0</sup>	5 <sup>0</sup>	6 <sup>5</sup>	a	3 <sup>5</sup>	4 <sup>2</sup>						
B	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	b	3 <sup>5</sup>	4 <sup>2</sup>						
C	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	c	3 <sup>5</sup>	4 <sup>1</sup>						
D	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	d	3 <sup>5</sup>	4 <sup>2</sup>						
E	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	e	3 <sup>5</sup>	4 <sup>2</sup>						
F	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	f	2 <sup>3</sup>	2 <sup>6</sup>						
G	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	g	3 <sup>5</sup>	4 <sup>2</sup>						
H	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	h	3 <sup>5</sup>	4 <sup>2</sup>						
I	0 <sup>7</sup>	0 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	i	1 <sup>1</sup>	1 <sup>1</sup>						
J	3 <sup>0</sup>	3 <sup>6</sup>	4 <sup>0</sup>	5 <sup>0</sup>	j	2 <sup>0</sup>	2 <sup>2</sup>						
K	3 <sup>2</sup>	4 <sup>1</sup>	4 <sup>3</sup>	5 <sup>4</sup>	k	3 <sup>5</sup>	4 <sup>2</sup>						
L	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	l	1 <sup>1</sup>	1 <sup>1</sup>						
M	3 <sup>7</sup>	4 <sup>5</sup>	5 <sup>1</sup>	6 <sup>1</sup>	m	6 <sup>0</sup>	7 <sup>0</sup>						
N	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	n	3 <sup>5</sup>	4 <sup>2</sup>						
O	3 <sup>4</sup>	4 <sup>2</sup>	4 <sup>5</sup>	5 <sup>5</sup>	o	3 <sup>6</sup>	4 <sup>3</sup>						
P	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	p	3 <sup>5</sup>	4 <sup>2</sup>						
Q	3 <sup>4</sup>	4 <sup>2</sup>	4 <sup>5</sup>	5 <sup>5</sup>	q	3 <sup>5</sup>	4 <sup>2</sup>						
R	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	r	2 <sup>6</sup>	3 <sup>2</sup>						
S	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	s	3 <sup>6</sup>	4 <sup>2</sup>						
T	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	t	2 <sup>7</sup>	3 <sup>2</sup>						
U	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	u	3 <sup>5</sup>	4 <sup>2</sup>						
V	3 <sup>5</sup>	4 <sup>4</sup>	4 <sup>7</sup>	6 <sup>0</sup>	v	4 <sup>2</sup>	4 <sup>7</sup>						
W	4 <sup>4</sup>	5 <sup>2</sup>	6 <sup>0</sup>	7 <sup>0</sup>	w	5 <sup>5</sup>	6 <sup>4</sup>						
X	3 <sup>4</sup>	4 <sup>0</sup>	4 <sup>5</sup>	5 <sup>3</sup>	x	4 <sup>4</sup>	5 <sup>1</sup>						
Y	3 <sup>6</sup>	5 <sup>0</sup>	5 <sup>0</sup>	6 <sup>6</sup>	y	4 <sup>6</sup>	5 <sup>3</sup>						
Z	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	z	3 <sup>6</sup>	4 <sup>3</sup>						

NUMBER	6 INCH SERIES		8 INCH SERIES	
	C	D	C	D
1	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>
2	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
3	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
4	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	5 <sup>7</sup>
5	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
6	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
7	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
8	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
9	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
0	3 <sup>4</sup>	4 <sup>2</sup>	4 <sup>5</sup>	5 <sup>5</sup>

FILE NAME = ... \D160F72-sht-ts-29.dgn	USER NAME = akw	DESIGNED - BRD	REVISED -
		DRAWN - OJT	REVISED -
		CHECKED - JJE	REVISED -
		DATE - 5/3/2012	REVISED -

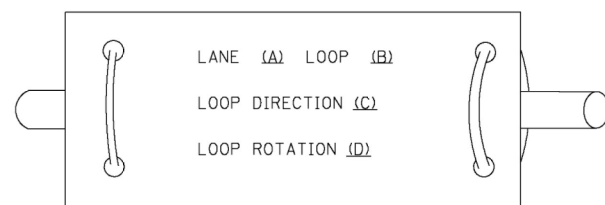
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

</

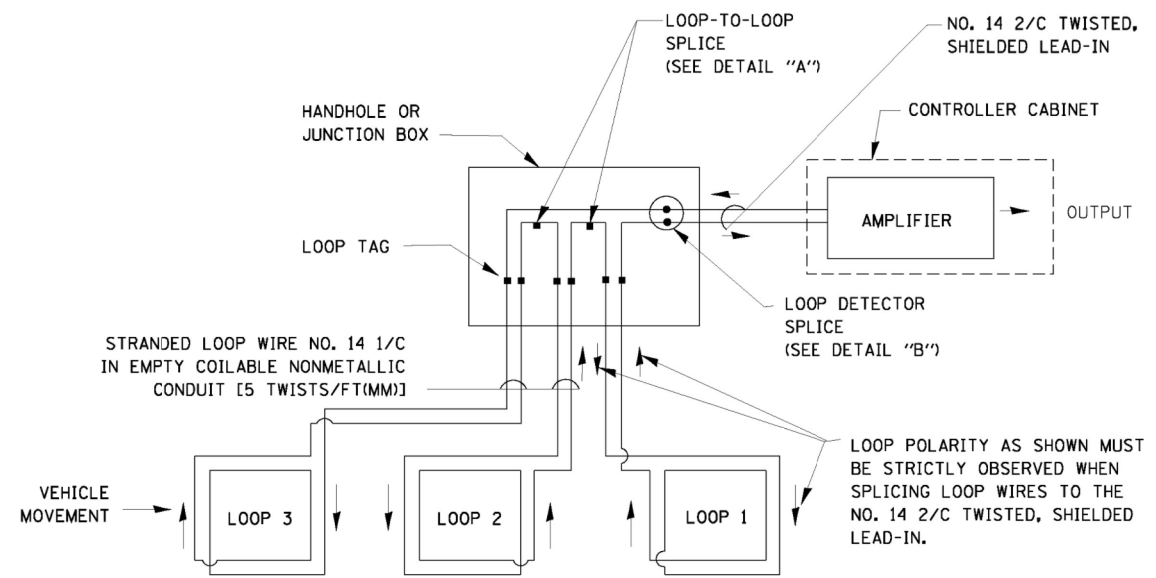
**LOOP DETECTOR NOTES**

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

**LOOP LEAD-IN CABLE TAG**

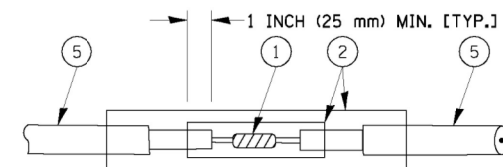


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

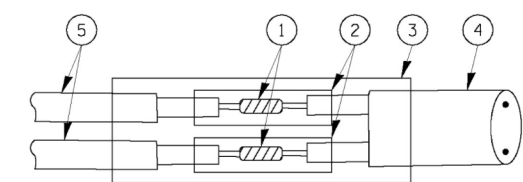


**DETECTOR LOOP WIRING SCHEMATIC**

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

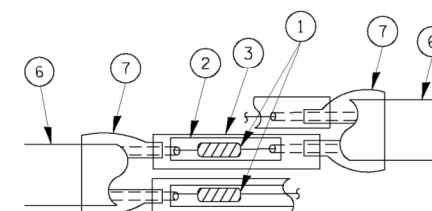


**DETAIL "A"  
LOOP-TO-LOOP SPLICE**

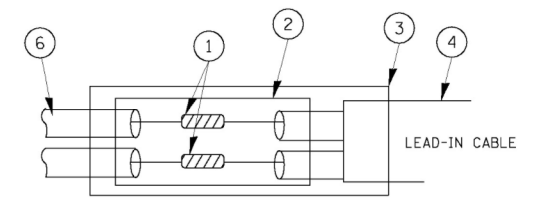


**DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE**

**TYPE I LOOP**



**DETAIL "A"  
LOOP-TO-LOOP SPLICE**



**PREFORMED LOOP**

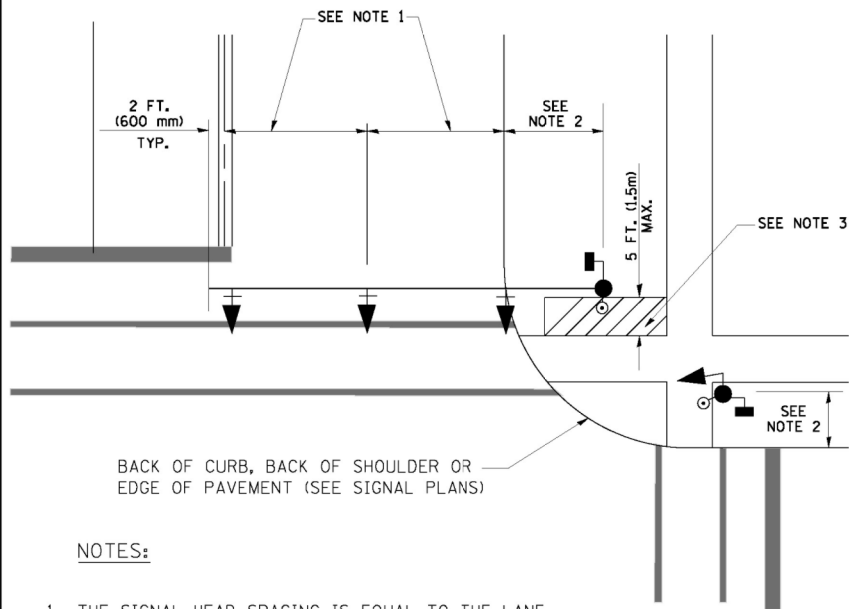
**DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE**

**LOOP DETECTOR SPLICE**

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PREFORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST**

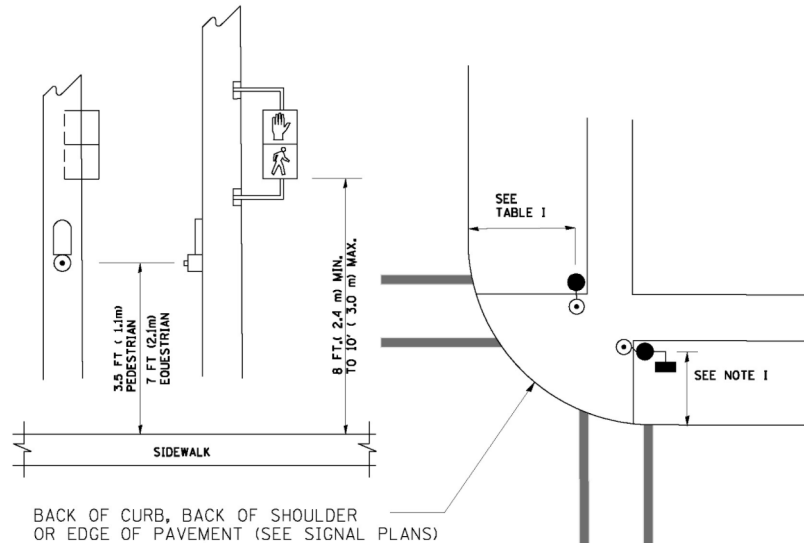
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



**NOTES:**

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

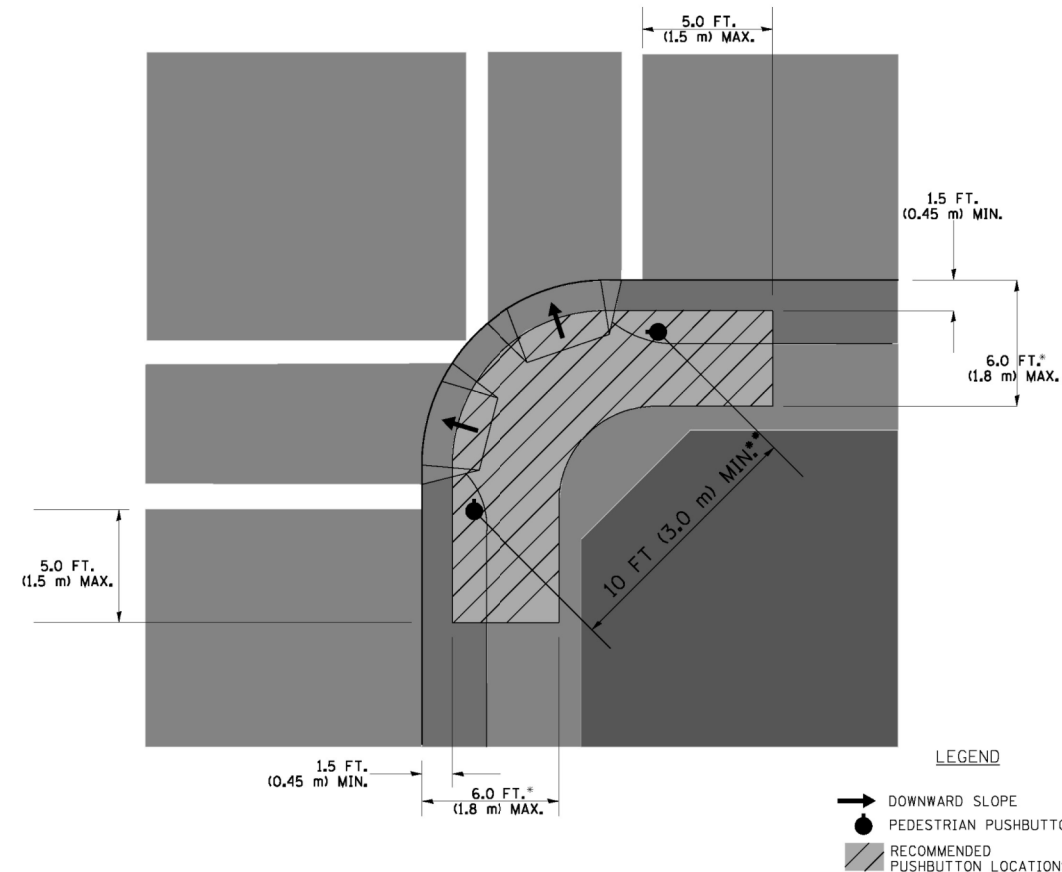
**PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST**



**NOTES:**

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

**RECOMMENDED PUSHBUTTON LOCATIONS**



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT ( 1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

**NOTES:**

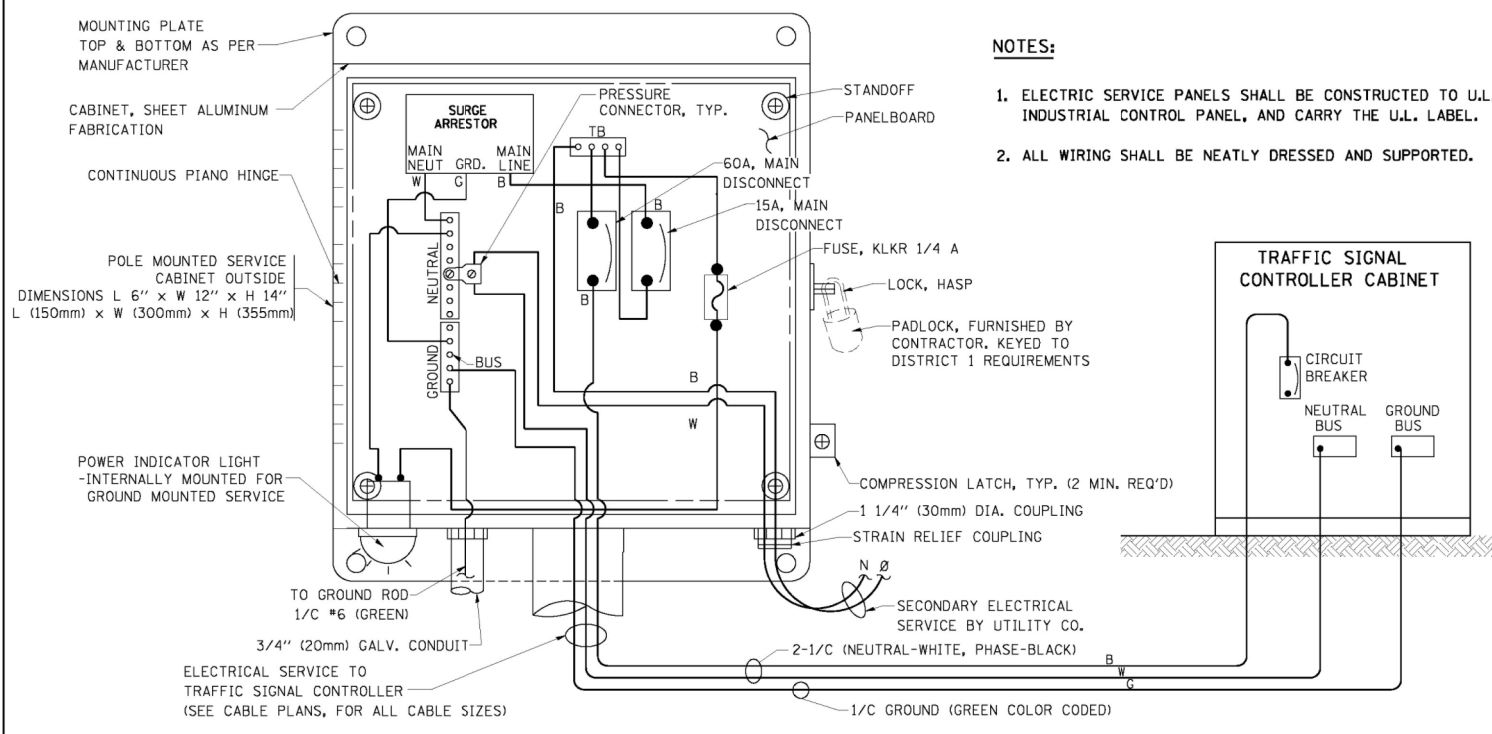
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

**TRAFFIC SIGNAL EQUIPMENT OFFSET**

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

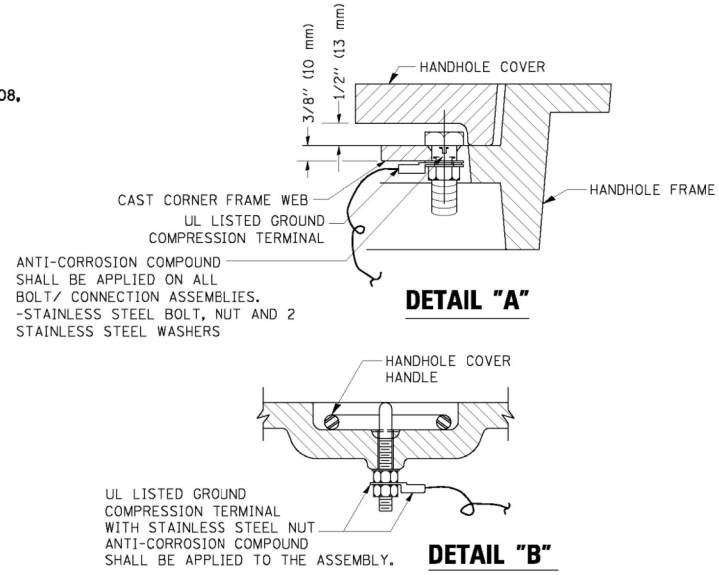
**NOTES:**

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.



**NOTES:**

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.



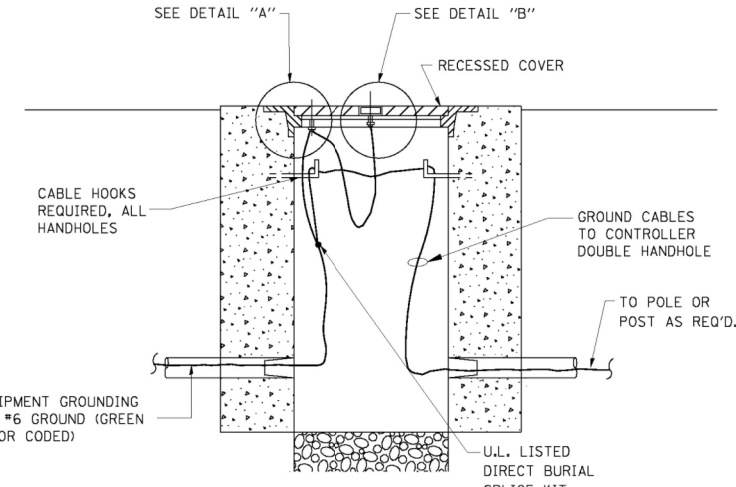
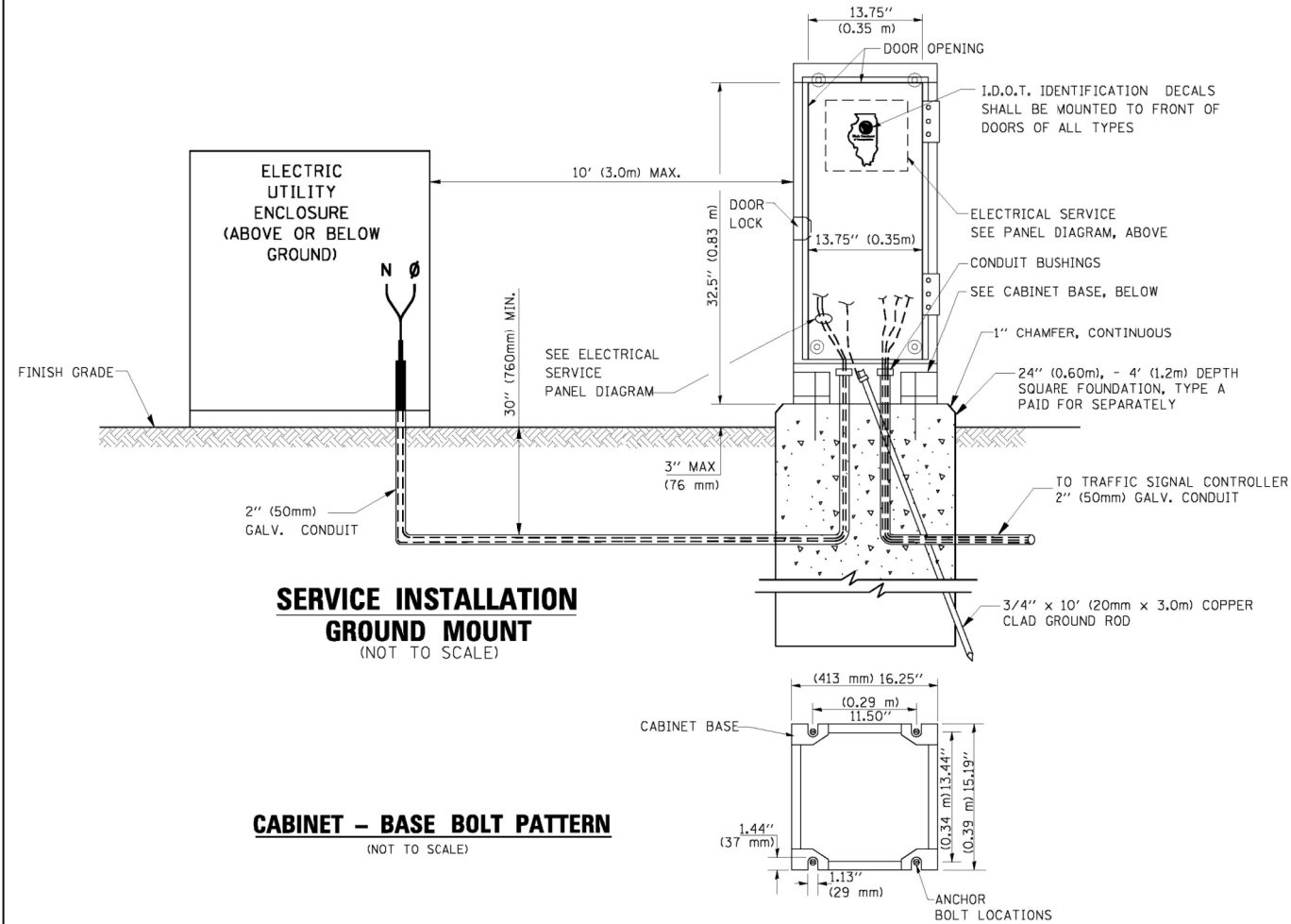
**NOTES:**

**GROUNDING SYSTEM**

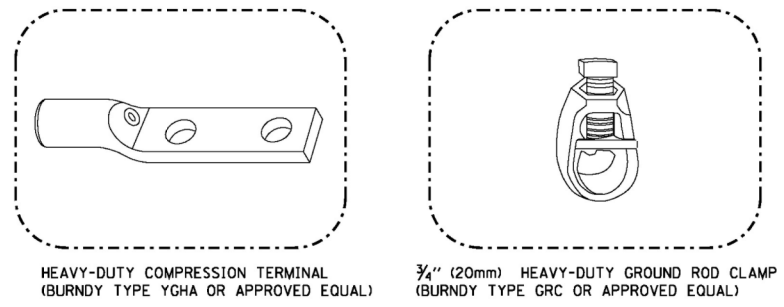
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)**

**SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)**

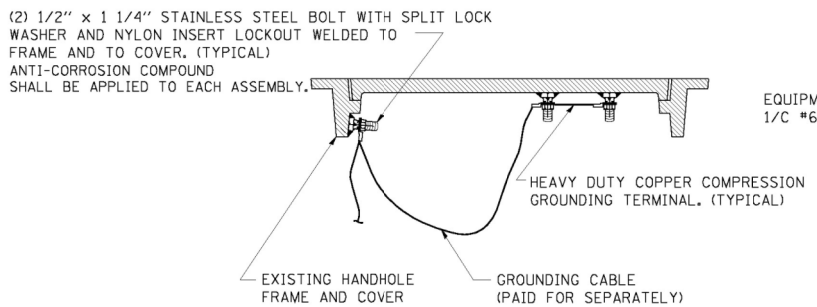


**HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)**

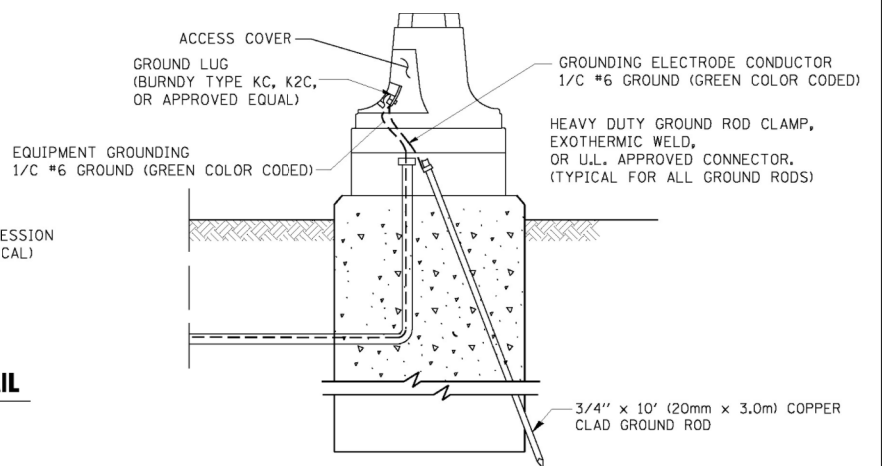


**NOTES:**

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.

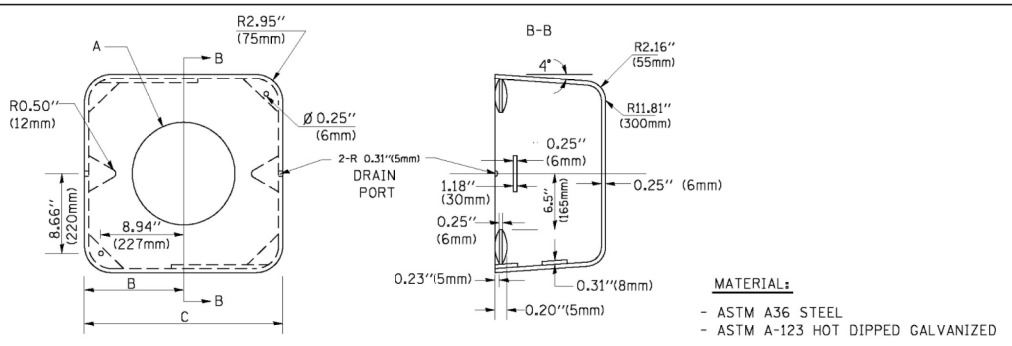
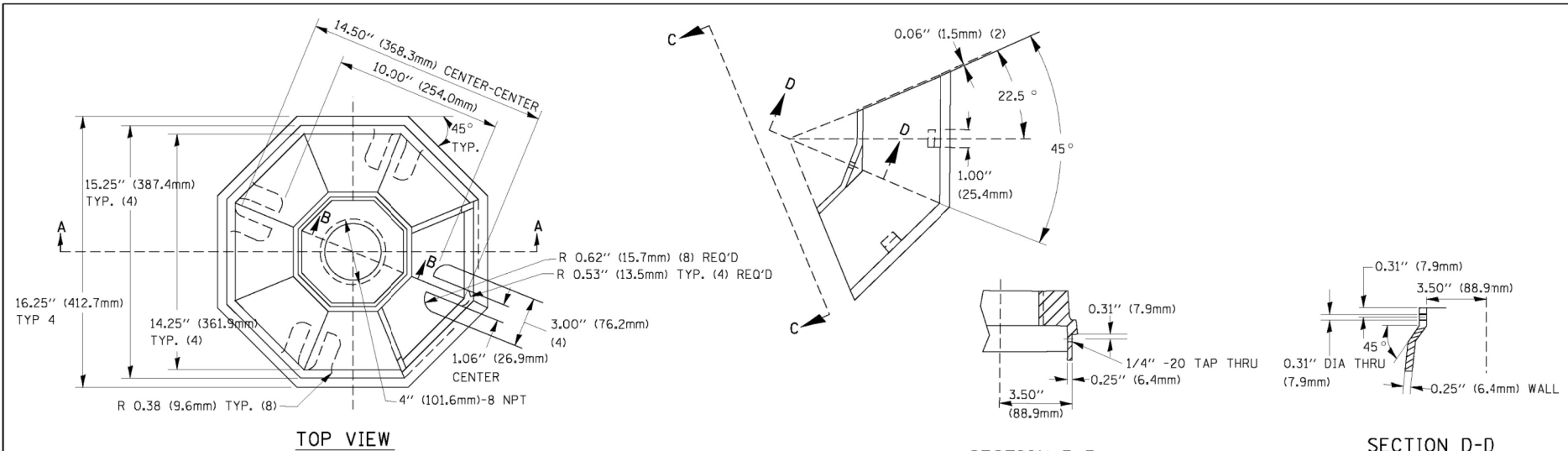


**EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)**



**MAST ARM POLE / POST-GROUNDING DETAIL (NOT TO SCALE)**

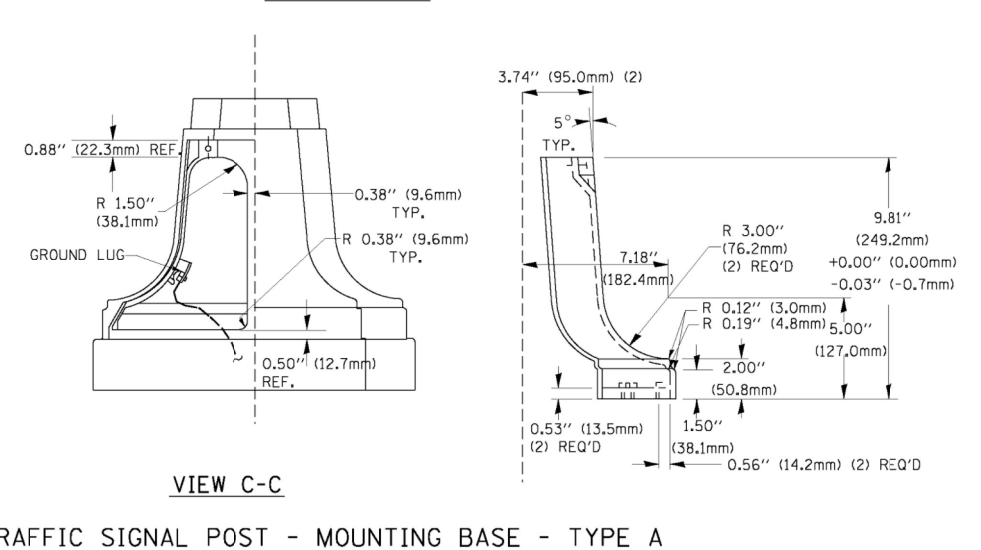
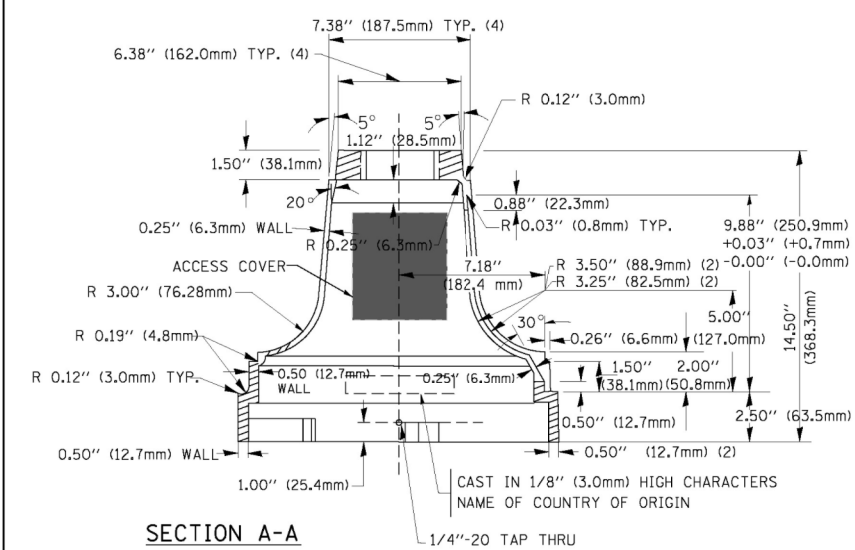
FILE NAME =	USER NAME = kanthaphixagbc	DESIGNED - DAD	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>	F.A.P. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =
01\proj\work\PWID01\KANTHAPHIXAYBC\d01126	4\traffic\legend.v7.dgn	DRAWN - BCK	REVISED -			0003	18A-2	MCHENRY	825	294
PLOT SCALE = 20.0000' / IN.		CHECKED - DAD	REVISED -			CONTRACT NO. 60F72				
PLOT DATE = 10/6/2009		DATE - 10/28/09	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



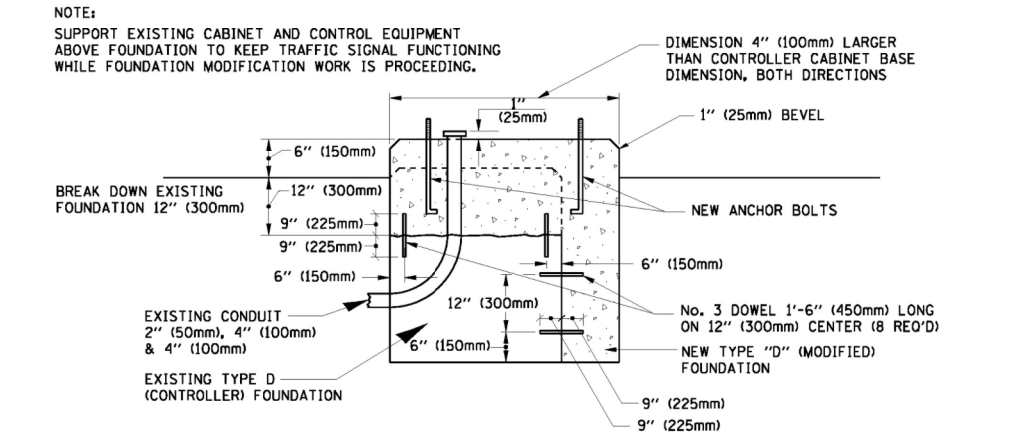
A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5\" (241mm)	19\" (483mm)	7\" (178mm) - 12\" (300mm)	53 lbs (24kg)
VARIABLES	10.75\" (273mm)	21.5\" (546mm)	7\" (178mm) - 12\" (300mm)	68 lbs (31 kg)
VARIABLES	13.0\" (330mm)	26\" (660mm)	7\" (178mm) - 12\" (300mm)	81 lbs (37 kg)
VARIABLES	18.5\" (470mm)	37\" (940mm)	7\" (178mm) - 12\" (300mm)	126 lbs (57 kg)

**SHROUD**

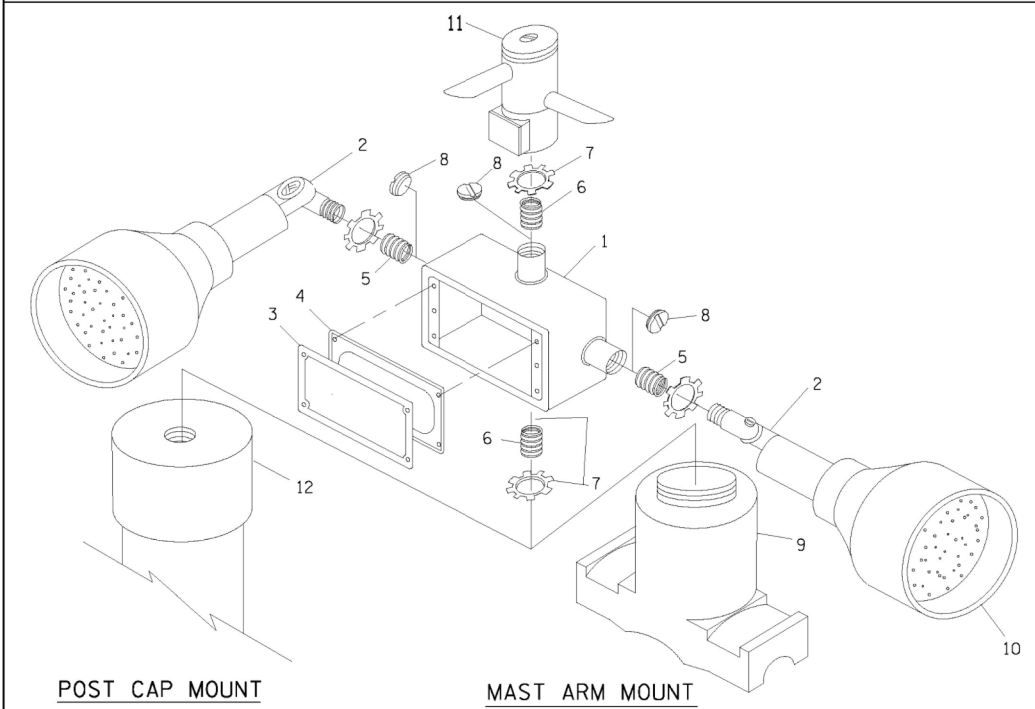
- NOTES:
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
  - THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
  - THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.



**TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A**

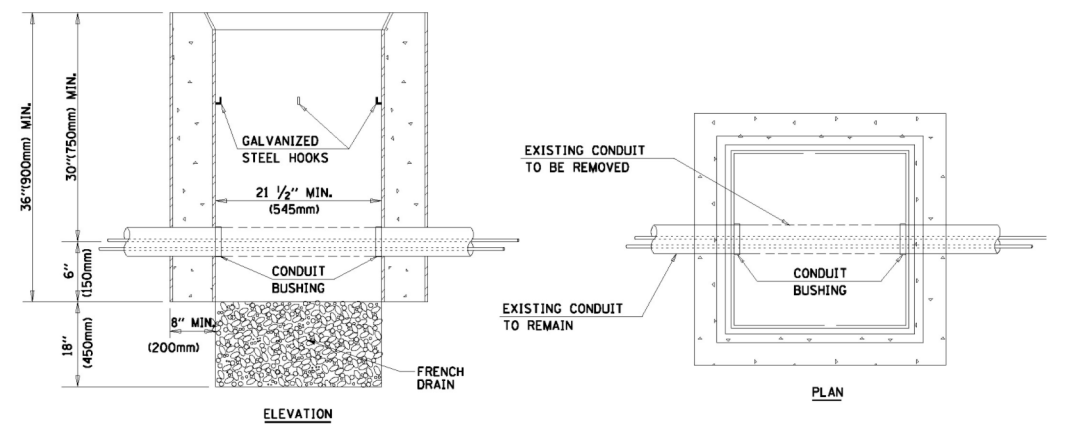


**MODIFY EXISTING TYPE "D" FOUNDATION**



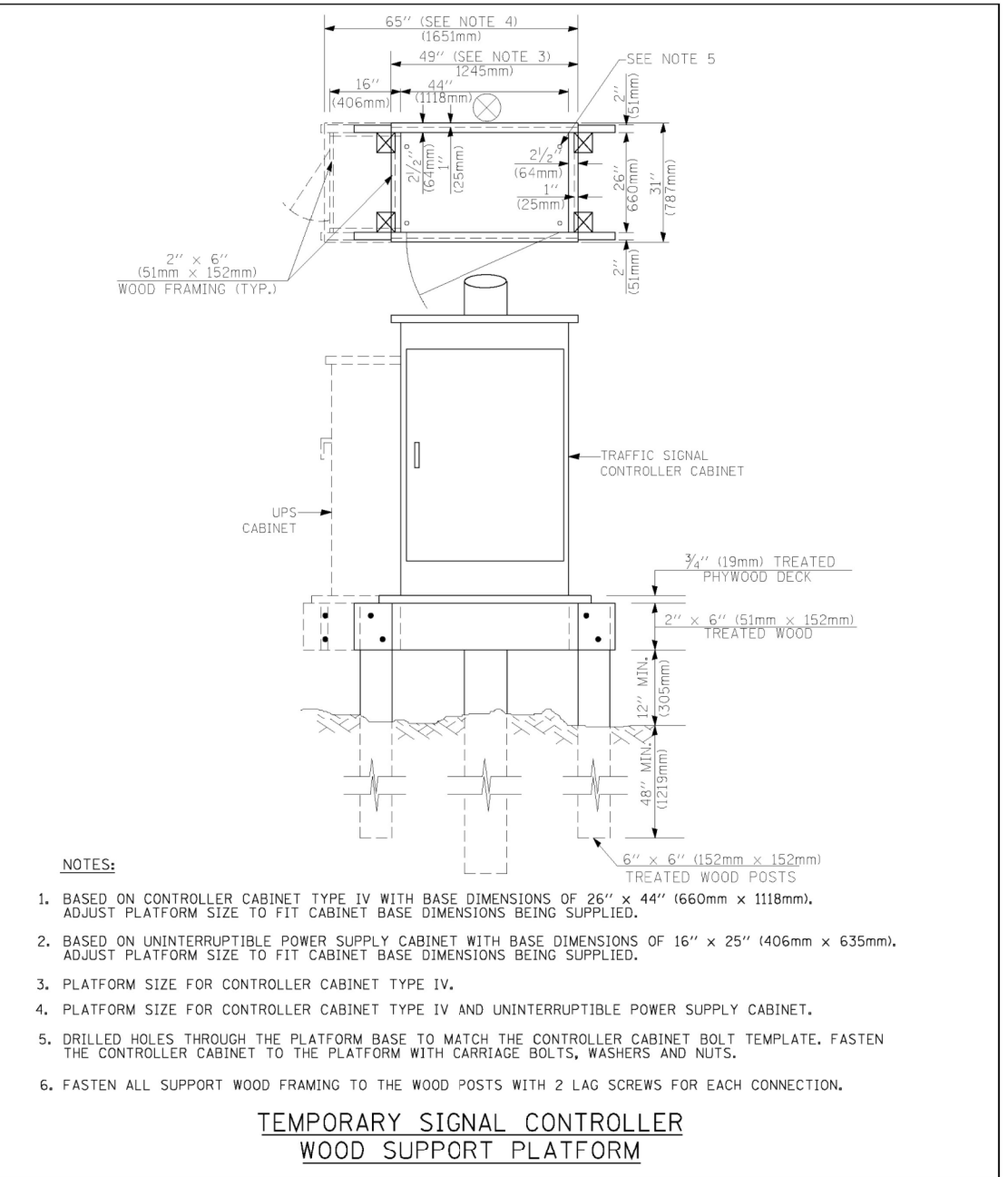
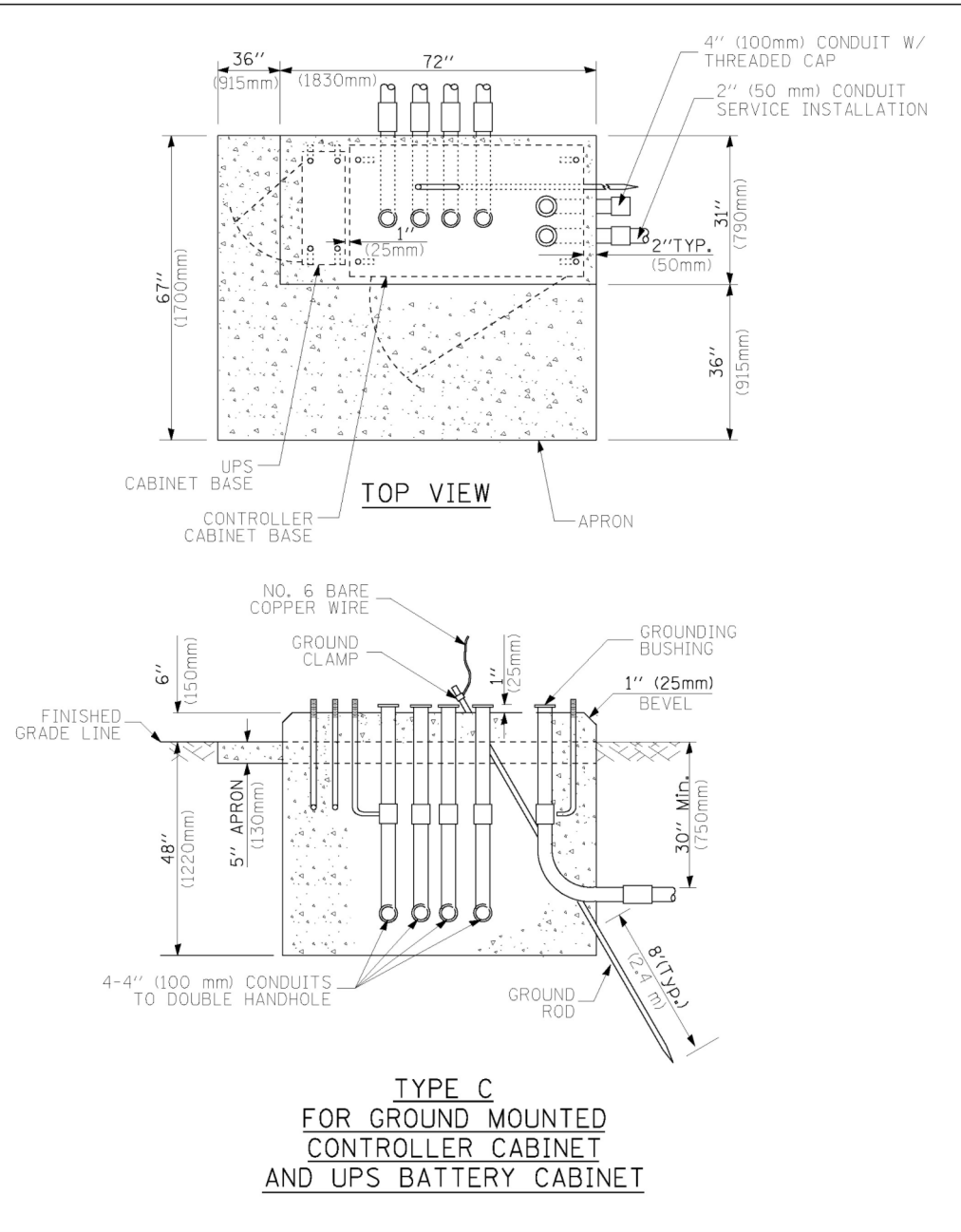
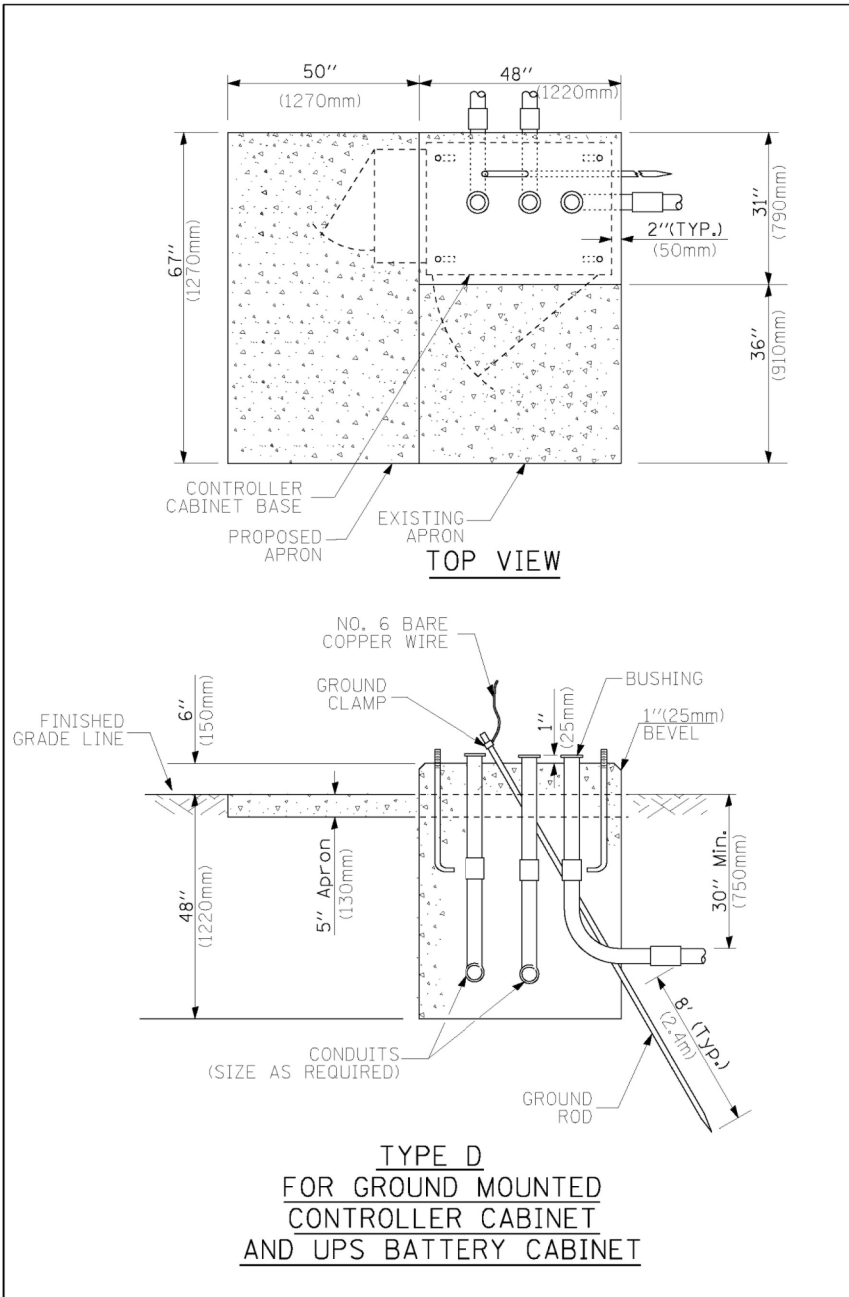
ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4\" (19 mm) CLOSE NIPPLE
7	3/4\" (19 mm) LOCKNUT
8	3/4\" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

- NOTES:
- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
  - ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT  
ITEM #2- MULBERRY CON-0-SHADE LAMP SHIELD OR EQUIVALENT  
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
  - WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4\" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



- NOTES:
- HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
  - REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

**HANDHOLE TO INTERCEPT EXISTING CONDUIT**



CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

**CABLE SLACK**

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE ( MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

**VERTICAL CABLE LENGTH**

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

**DEPTH OF FOUNDATION**

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

**NOTES:**

- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength ( $Q_u$ ) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
- Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
- For mast arm assemblies with dual arms refer to state standard 878001.

**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**

FILE NAME =	USER NAME = kanthephixaybc	DESIGNED - DAG	REVISED -
et:\pwwork\pwwid001\KANTHAPHIXAYBC\d01126	4\traffic.legend.v7.dgn	DRAWN - BCK	REVISED -
	PLOT SCALE = 20.0000' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 1  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: SHEET NO. 5 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	296
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60F72	

# TRAFFIC SIGNAL LEGEND












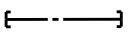




ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F 24F			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM		S	S	STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM		I	IP	ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
SIGNAL POST				REMOVE ITEM	R			STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM	RL			SIGNAL POST AND FOUNDATION TO BE REMOVED			
GUY WIRE				ABANDON ITEM	A			INTERSECTION & SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				<b>RAILROAD SYMBOLS</b>			
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID				RAILROAD CONTROL CABINET			
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER				RAILROAD CANTILEVER MAST ARM			
ILLUMINATED SIGN "NO LEFT TURN"				RADIO INTERCONNECT				FLASHING SIGNAL			
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO REPEATER				CROSSING GATE			
DETECTOR LOOP, TYPE I				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED				CROSSBUCK			
PREFORMED DETECTOR LOOP				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)							
MICROWAVE VEHICLE SENSOR											
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											



**LIGHTING GENERAL NOTES:**

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
- PAY ITEMS IN THE SUMMARY OF QUANTITIES HAVE BEEN ESTIMATED. IF, IN THE ENGINEER'S OPINION, ANY WORK IS NOT REQUIRED, THAT ITEM WILL BE DEDUCTED FROM THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES FOR EXAMINATION AND CONFIRMATION WITH THE ENGINEER PRIOR TO INSTALLATION OF LIGHTING FOUNDATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY FOR COORDINATING THE FINISHED GRADE ELEVATION WITH THE INSTALLATION OF CONDUITS, UNIT DUCTS AND THE TOP OF THE FOUNDATION HEIGHTS REMAIN WITH THE CONTRACTOR.
- WHEN SPLICING TO EXISTING POLE, ANY AND ALL WORK REQUIRED TO RUN THE PROPOSED UNIT DUCT INTO EXISTING FOUNDATION SLEEVE AND SPLICING IN EXISTING POLE SHALL BE COVERED AND INCLUDED IN THE PAY ITEM FOR THE UNIT DUCT.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE ANY LIGHT STANDARD IS ERECTED.
- ANY DAMAGE TO PAVEMENT, SIDEWALK, CURB, OR ANY OTHER PORTION OF THE ROADWAY NOT SPECIFICALLY TO BE REMOVED AND REPLACED SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST AND REPLACEMENT SHALL MEET THE APPROVAL OF THE ENGINEER.
- COORDINATE WITH TRAFFIC SIGNAL PLANS FOR EXACT LOCATIONS OF COMBINATION POLES. COMBINATION POLES ARE IN TRAFFIC SIGNAL PAY ITEMS, LUMINAIRES ARE IN PROPOSED LIGHTING PAY ITEMS.
- STATION CALL-OFFS ARE FROM THE PROPOSED ILLINOIS ROUTE 31 CENTERLINE ALIGNMENT UNLESS OTHERWISE NOTED. STATION CALL-OFFS NOTED WITH (H), (RA), (RB), (RC), (RD) OR (NM) ARE DEFINED BY HUNTINGTON DRIVE, RAMP A, RAMP B, RAMP C, RAMP D OR NORTH MAIN STREET ALIGNMENT RESPECTIVELY.
- OFFSET CALL-OFFS ARE FROM THE CENTER OF POLES TO EDGE OF PAVEMENT (E.O.P.).

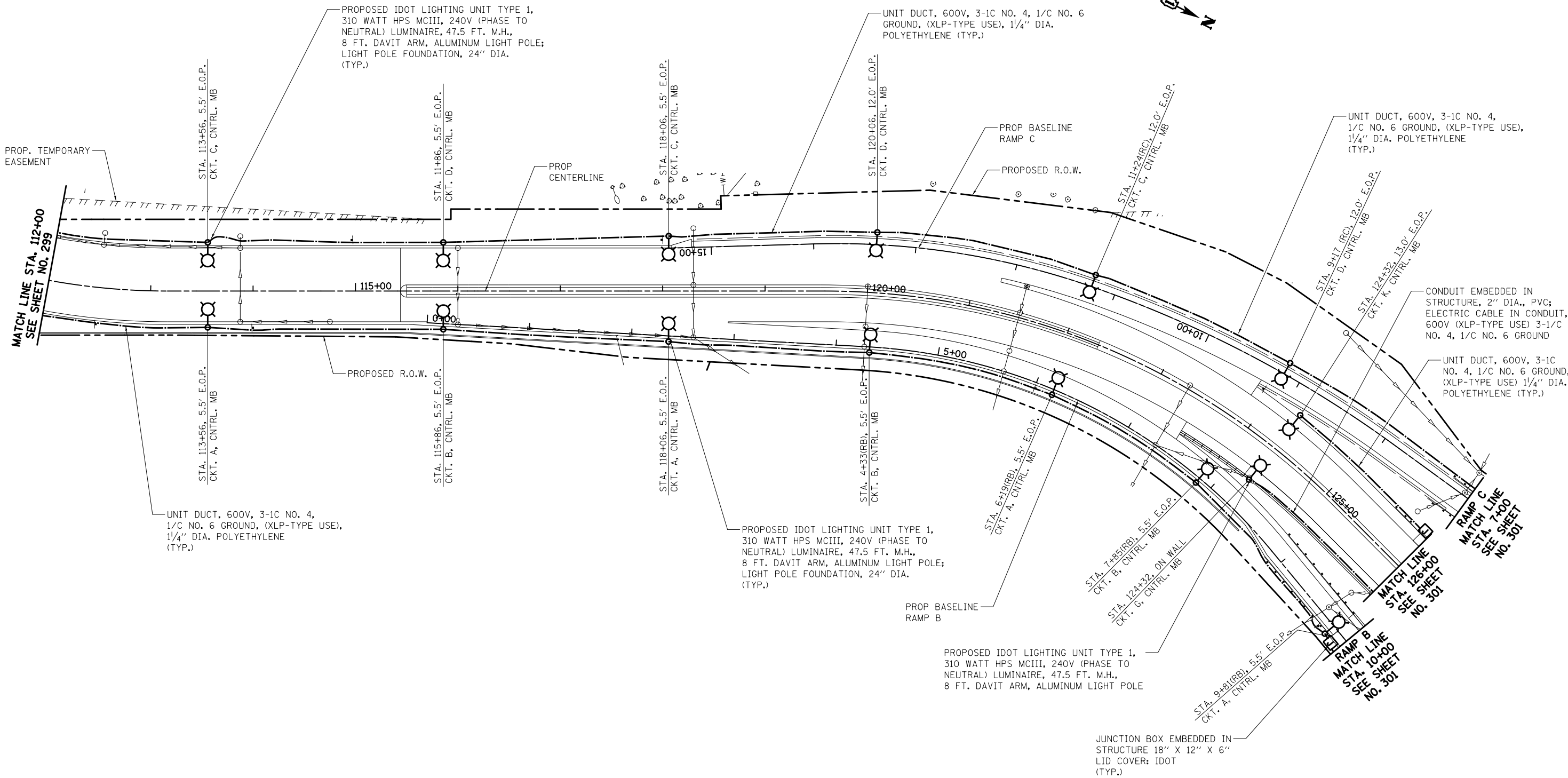
**LEGEND**

	PROPOSED IDOT LIGHTING UNIT TYPE 1 310 WATT HPS MCIII, 240V (PHASE TO NEUTRAL) LUMINAIRE, 47.5 FT. M.H., 8 FT. DAVIT ARM, ALUMINUM LIGHT POLE		PROPOSED LIGHTING CONTROLLER, BASE MOUNTED,
	PROPOSED ALGONQUIN LIGHTING UNIT TYPE 2 150 WATT HPS MCIII (HUNTINGTON DR.) OR 250 WATT HPS MCIII (ALGONQUIN ROAD), 240V 40 FT. M.H., 10 FT. DAVIT ARM, DECORATIVE ALUMINUM LIGHT POLE WITH 2 LED ACORN LUMINAIRE (TYPE 5)		PROPOSED LIGHTING HANDHOLE
	PROPOSED IDOT LIGHTING UNIT TYPE 3 310 WATT HPS MCIII, 240V (PHASE TO NEUTRAL) LUMINAIRE, 47.5 FT. M.H., 8 FT. DAVIT ARM, ALUMINUM LIGHT POLE WITH SPLIT BASE		PROPOSED JUNCTION BOX (TYPE AND SIZE AS SPECIFIED)
	PROPOSED ALGONQUIN LIGHTING UNIT TYPE 4 ORNAMENTAL LIGHTING, LED ACORN POST MOUNTED, 12 FT. OR 14 FT. M.H., 120V		PROPOSED UNIT DUCT (SIZE AS SPECIFIED)
	PROPOSED ALGONQUIN LIGHTING UNIT TYPE 5 ORNAMENTAL LIGHTING, TWIN LED ACORN POST MOUNTED, 14 FT. M.H., 120V		CONDUIT ATTACHED TO STRUCTURE (SIZE AND TYPE AS SPECIFIED)
	IDOT TRAFFIC SIGNAL AND STREET LIGHTING COMBINATION POLE, 310 WATT HPS MCIII, 240V (PHASE TO NEUTRAL) LUMINAIRE, 45 FT. M.H., 8 FT. MAST ARM (POLE AND MAST ARM PROVIDED BY TRAFFIC SIGNAL)		RIGID GALVANIZED STEEL CONDUIT, TYPE AND SIZE AS NOTED
	UNDERPASS LUMINAIRE HIGH PRESSURE SODIUM (WATTAGE AND OWNER AS NOTED)		REMOVAL OF ALGONQUIN LIGHTING UNIT, SALVAGE
			EXISTING COMED POWER POLE LIGHT
			EXISTING ALGONQUIN DECORATIVE LIGHTING UNIT

**LIGHTING SCHEDULE OF QUANTITIES**

ITEMS	UNIT	IDOT QUANTITY	VILLAGE QUANTITY	TOTAL QUANTITY
ELECTRIC SERVICE INSTALLATION	EACH	4		4
ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1		1
CONDUIT ENCASED, CONCRETE, 2" DIA., PVC 2 WIDE X 1 HIGH	FOOT	38		38
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	534		534
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	968		968
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	2315		2315
CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	703		703
CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	4915		4915
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	17		17
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	16		16
JUNCTION BOX EMBEDDED IN STRUCTURE 18" X12" X6"	EACH	16		16
UNIT DUCT, 600V, 3-1C NO.10, 1/C NO.10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	738		738
UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	2268		2268
UNIT DUCT, 600V, 3-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	3096		3096
UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	22547		22547
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	3384		3384
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	7792		7792
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	3671		3671
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	9546		9546
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	771		771
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 3/0	FOOT	620		620
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C 350MCM	FOOT	480		480
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 310 WATT	EACH	125		125
UNDERPASS LUMINAIRE, 50 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	2		2
UNDERPASS LUMINAIRE, 70 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	11		11
UNDERPASS LUMINAIRE, 100 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	4		4
LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	1		1
LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP	EACH	1		1
LIGHTING CONTROLLER, BASE MOUNTED, 480 VOLT, 100AMP	EACH	1		1
LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL)	EACH	1		1
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 8 FT. DAVIT ARM	EACH	112		112
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	920		920
LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	140		140
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	92		92
REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	11		11
REMOVAL OF POLE FOUNDATION	EACH	11		11
REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	2		2
REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1		1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5792		5792
LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	96		96
BREAKAWAY DEVICE, COUPLING	EACH	16		16
PAINT ROADWAY LIGHT POLE OVER 40 FEET	EACH		4	4
RELOCATE EXISTING LIGHTING CONTROLLER	EACH	1		1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	125		125
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	18		18
UNIT DUCT, 600V, 4-1C NO.6, 2-1C NO. 8, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	781		781
LIGHTING UNIT TYPE 2, 150 WATT	EACH	6		6
LIGHTING UNIT TYPE 2, 250 WATT	EACH	7		7
LIGHTING UNIT TYPE 4, 12 FT. M.H.	EACH	18		18
LIGHTING UNIT TYPE 4, 14 FT. M.H.	EACH	26		26
LIGHTING UNIT TYPE 5	EACH	3		3
CAST ALUMINUM SPLIT PEDESTAL BASE	EACH		4	4





**ILLINOIS ROUTE 31  
RAMP B  
RAMP C**



FILE NAME = ...\\D160F72-sht-light-02.dgn	USER NAME = akw	DESIGNED - SJC	REVISED -
		DRAWN - SJC	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED - DNM	REVISED -
	PLOT DATE = 5/2/2012	DATE - 5/3/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING PLAN**

SCALE: 1" = 50' SHEET NO. 3 OF 31 SHEETS STA. 112+00 TO STA. 126+00

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	300

CONTRACT NO. 60F72  
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT