

PARCEL No.	OWNER	TOTAL HOLDINGS (ACRES)	PART TAKEN (ACRES)	PREVIOUSLY DEDICATED (ACRES)	REMAINDER (ACRES)	EASEMENT AREA (ACRES)	PERMANENT INDEX NUMBER	PURPOSE OF EASEMENT	ACQUIRED BY
0H40007	SIMBA INVESTMENTS, LLC	3.029	0.294	0.000	2.735	0.262	27-27-300-007	TEMPORARY	
0H40008		4.270	0.386	0.000	3.884	0.000		N/A	
0H40008TE-A		N/A	N/A	N/A	N/A	0.052	27-27-300-010	TEMPORARY	
0H40008TE-B		N/A	N/A	N/A	N/A	0.229	27-27-321-007	TEMPORARY	
0H40009	AMERICAN CHARTERED BANK	1.085	0.035	0.000	1.050	0.105	27-27-320-006	TEMPORARY	
0H40009 SIGN EASEMENT		N/A	N/A	N/A	N/A	0.021		SIGN EASEMENT	
0H40010	SCP 2006-C23-214, LLC	1.796	0.115	0.000	1.681	0.076	27-27-320-005	TEMPORARY	
0H40010 SIGN EASEMENT		N/A	N/A	N/A	N/A	0.021		SIGN EASEMENT	
0H40011	SSM HEALTH CARE	60.009	2.398	0.000	57.611	0.000	27-27-100-015	N/A	
0H40011TE-A		N/A	N/A	N/A	N/A	0.051	27-27-100-019	TEMPORARY	



#612  
FOUND COOK COUNTY  
HIGHWAY DEPARTMENT BRONZE  
MONUMENT AT CORNER



#611  
FOUND COOK COUNTY  
HIGHWAY DEPARTMENT BRONZE  
MONUMENT AT CORNER



#613  
FOUND BRONZE  
PLUG AT CORNER  
DOC. NO. 2524072



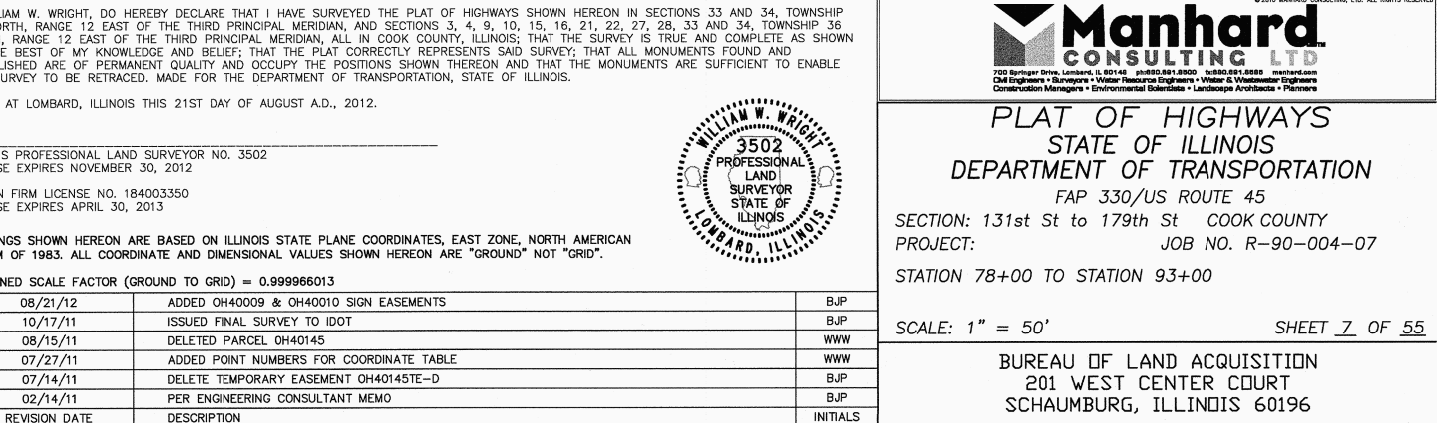
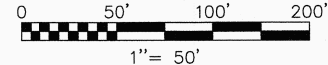
0 50' 100' 200'  
1" = 50'

F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330/US 45	131st St to 179th St	COOK	932	401

STATION 78+00 TO STATION 93+00		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT

SEE SHEET 52 FOR COORDINATE VALUES FOR CENTERLINE POINTS, SECTIONS CORNERS AND ROW MONUMENTS			UNSUBDIVIDED LAND COOK COUNTY FOREST P		
CORNER	STATION	OFFSET			
A	81+81.47	75.00 R			
B	81+81.47	77.00 R			
C	81+98.47	77.00 R			
D	81+98.47	75.00 R			
E	82+01.80	75.00 R			
F	82+01.80	95.00 R			
G	85+95.00	86.00 R			
H	85+95.00	130.00 R			
I	86+20.54	130.00 R			
J	86+20.82	75.77 R			
K	86+39.49	77.00 R			
L	86+55.00	86.00 R			
M	86+55.00	130.00 R			

CORNER	STATION	OFFSET
A	81+81.47	75.00 R
B	81+81.47	77.00 R
C	81+98.47	77.00 R
D	81+98.47	75.00 R
E	82+01.80	75.00 R
F	82+01.80	95.00 R
G	85+95.00	86.00 R
H	85+95.00	130.00 R
I	86+20.54	130.00 R
J	86+20.82	75.77 R
K	86+39.49	77.00 R
L	86+55.00	86.00 R
M	86+55.00	130.00 R



#613  
FOUND BRONZE  
PLUG AT CORNER  
? DOC. NO. 25240212

UNSUBDIVIDED  
LAND

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Construction Managers • Environmental Scientists • Landscape Architects • Planners

AS DOCUMENT NO.

08/21/12	ADDED OH40009 & OH40010 SIGN EASEMENTS	BJP
10/17/11	ISSUED FINAL SURVEY TO IDOT	BJP
08/15/11	DELETED PARCEL OH40145	WWW
07/27/11	ADDED POINT NUMBERS FOR COORDINATE TABLE	WWW
07/14/11	DELETE TEMPORARY EASEMENT OH40145TE-D	BJP
02/14/11	PER ENGINEERING CONSULTANT MEMO	BJP
REVISION DATE	DESCRIPTION	INITIALS

### LEGEND

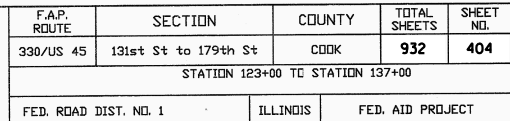
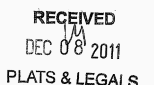
	SECTION CORNER		PK NAIL SET REPLACED AFTER CONSTRUCTION		EX. SANITARY MANHOLE (SMH)
	QUARTER SECTION CORNER		IRON ROD SET		EX. FIRE HYDRANT/AUX. VALVE
	QUARTER SECTION LINE		IRON PIPE OR ROD FOUND		EX. VALVE BOX
	PLATTED LOT LINE		CUT CROSS FOUND OR SET		EX. VALVE VAULT (V.V.)
	PROPERTY (DEED) LINE		T1		EX. IRRIGATION CONTROL BOX
	CENTERLINE		T2		EX. ELECTRICAL METER
	EXISTING RIGHT-OF-WAY LINE		T3		EX. ELECTRICAL OUTLET
	PROPOSED RIGHT-OF-WAY LINE		<b>THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. WITNESS POINTS SET TO AID IN THE RECOVERY AND ESTABLISHMENT OF THE PROPOSED CENTERLINE OF CONSTRUCTION.</b>		EX. UTILITY POLE
	PROPOSED EASEMENT				EX. UTILITY POLE WITH LIGHT
	MEASURED DIMENSION				EX. GUY WIRE
	COMPUTED DIMENSION		<b>STAKING OF PROPOSED RIGHT OF WAY.</b> MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.		EX. LIGHT STANDARD
	RECORD DATA		POINT OF BEGINNING		EX. STREET LIGHT
	EXISTING BUILDING		POINT OF COMMENCEMENT		EX. GROUND LIGHT
			EX. MISCELLANEOUS MANHOLE (MH)		EX. SIGN
			EX. STORM MANHOLE (MH)		EX. DOUBLE POLE SIGN
			EX. STORM CATCH BASIN (CB)		EX. MAILBOX
			EX. STORM INLET (INL)		EX. BOLLARD
			EX. FLARED END SECTION (FES)		EX. FLAG POLE
					EX. ELECTRICAL EQUIPMENT
					EX. TELEPHONE PEDESTAL

R.O.W. PLAT		BY	DATE
	MADE		
	CHECKED		
	INKED		
NOTEBOOK NO.			





December 7, 2011 - 07:34 Dwg Name: P:\dot14\dwg\Surv\Final Drawings\Plat of Highways\10-STA-123-137.dwg Updated By: bwright

[illegible]

CURVE TABLE					
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA
C1	7480.28'	17.50'	S 03°35'55" E	17.50'	0°08'03"
C2	7485.28'	19.98'	S 03°35'32" E	19.98'	0°09'12"
C3	7480.28'	203.58'	S 03°35'32" E	203.57'	1°33'34"
C4	7610.28'	384.31'	S 03°37'33" E	384.77'	2°53'36"
C5	7485.28'	17.12'	S 03°30'04" E	17.12'	0°07'53"
C6	7480.28'	136.67'	S 02°28'29" E	136.66'	1°02'49"
C7	7455.28'	48.14'	S 02°08'11" E	48.14'	0°22'12"
C8	7450.28'	29.99'	S 02°26'12" E	29.99'	0°15'50"
C9	7485.28'	58.48'	S 02°46'35" E	58.48'	0°26'56"
C10	7480.28'	151.59'	N 04°07'10" W	151.58'	1°09'40"
C11	7480.28'	18.91'	N 04°46'20" W	18.91'	0°08'42"
C12	7610.28'	148.76'	N 04°30'05" W	148.76'	1°07'12"
C13	7485.28'	18.11'	N 04°30'05" W	18.11'	0°08'20"
C14	7641.28'	103.16'	N 03°19'49" W	103.16'	0°46'25"
C15	7610.28'	131.77'	N 02°26'51" W	131.77'	0°59'31"

STATE OF ILLINOIS )  
 ) S  
COUNTY OF COOK )

I, WILLIAM W. WRIGHT, DO HEREBY DECLARE THAT I HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 33 AND 34, TOWNSHIP 37 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, AND SECTIONS 3, 10, 15, 16, 21, 22, 27, 28, 33 AND 34, TOWNSHIP 36 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY; THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LOMBARD, ILLINOIS THIS 6TH DAY OF DECEMBER A.D., 2011

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3502

DESIGN FIRM LICENSE NO. 184003350  
 LICENSE EXPIRES APRIL 30, 2013

BEARINGS SHOWN HEREON ARE BASED ON ILLINOIS STATE PLANE COORDINATES, EAST ZONE, NORTH AMERICAN DATUM OF 1983. ALL COORDINATE AND DIMENSIONAL VALUES SHOWN HEREON ARE "GROUND" NOT "GRID".

COMBINED SCALE FACTOR (GROUND TO GRID) = 0.999966013

12/06/11	REVISED PARCEL OH40138TE PER IDOT	WWW
10/17/11	ISSUED FINAL SURVEY TO IDOT	BJP
07/27/11	ADDED POINT NUMBERS FOR COORDINATE TABLE	WWW
07/25/11	REVISED OWNER FOR PARCEL OH40019	BJP
03/22/11	REVISED OWNER FOR PARCEL OH40140	WWW
REVISION DATE	DESCRIPTION	INITIALS

RECORDING: RECORDED ON

IDOT14 — 090746 SHEET 1 IS A COVER SHEET AND IS NOT RECORDED



PLAT OF HIGHWAYS  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SECTION: 131st St to 179th St COOK COUNTY  
PROJECT: JOB NO. R-90-004-07  
STATION 123+00 TO STATION 137+00

SCALE: 1" = 50' SHEET 10 OF 55

BUREAU OF LAND ACQUISITION  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196

AS DOCUMENT NO.

PARCEL No.	OWNER	TOTAL HOLDINGS (ACRES)	PART TAKEN (ACRES)	PREVIOUSLY DEDICATED (ACRES)	REMAINDER (ACRES)	EASEMENT AREA (ACRES)	PERMANENT INDEX NUMBER	PURPOSE OF EASEMENT	ACQUIRED BY
0H40019	LTF REAL ESTATE COMPANY, INC.	10.204	0.108	0.000	10.096	0.129	27-22-300-025	TEMPORARY	
0H40020	LTF REAL ESTATE COMPANY, INC.	0.542	0.050	0.000	0.492	0.049	27-22-300-001	TEMPORARY	
0H40021TE	16165 LAGRANGE ROAD, LLC	2.477	N/A	N/A	N/A	0.040	27-22-102-016 27-22-102-017	TEMPORARY	
0H40022TE	STANDARD BANK AND TRUST COMPANY AS TRUSTEE UNDER TRUST NO. 19902	5.153	N/A	N/A	N/A	406 SQ. FT. 0.009 AC.	27-22-102-013 27-22-102-014	TEMPORARY	
0H40134	TATUM AND SHEA, LTD	1.503	0.022	0.000	1.481	0.052	27-21-202-013	TEMPORARY	
0H40135	BRYAN LANTOW, D.V.M.	2.297	0.076	0.000	2.221	0.063	27-21-202-002	TEMPORARY	
0H40136	STATE BANK OF COUNTRYSIDE	2.424	0.074	0.000	2.350	0.064	27-21-202-006 27-21-404-001	TEMPORARY	
0H40137	16310 S. LAGRANGE, LLC	1.138	0.038	0.000	1.100	0.069	27-21-401-007	TEMPORARY	
0H40138	B & G REALTY	11.604	0.128	0.000	11.476	0.135	27-21-401-008	TEMPORARY	

LINE TABLE									
LINE	BEARING	LENGTH	LINE	BEARING	LENGTH	LINE	BEARING	LENGTH	LINE
L1	N 87°59'15" E	103.57'	L16	N 42°13'20" W	37.77'	L31	N 01°57'05" W	35.00'	
L2	S 80°19'57" W	76.39'	L17	S 87°55'42" E	16.70'	L32	N 88°02'55" E	19.00'	
L3	S 42°35'08" E	18.09'	L18	S 46°37'52" E	21.17'	L33	N 01°57'05" W	26.13'	
L4	S 42°58'01" E	31.97'	L19	N 42°13'20" W	25.53'	L34	N 88°02'55" E	20.80'	
L5	N 02°04'45" W	34.41'	L20	S 43°02'08" W	32.59'	L35	S 87°59'11" W	8.03'	
L6	S 47°01'10" E	30.93'	L21	S 87°55'42" W	6.49'	L36	N 88°02'47" E	8.02'	
L7	N 87°55'15" E	132.97'	L22	N 41°08'48" E	29.38'	L37	S 88°02'47" W	8.02'	
L8	S 01°28'23" E	12.52'	L23	N 87°58'57" E	9.98'	L38	N 01°57'05" W	98.88'	
L9	N 88°31'34" E	5.13'	L24	S 87°55'42" W	24.06'	L39	N 88°02'55" E	3.75'	
L10	S 47°01'10" E	25.34'	L25	N 87°55'42" E	21.90'	L40	N 01°57'05" W	36.92'	
L11	N 87°55'35" E	3.69'	L26	N 41°08'48" E	20.85'	L41	N 88°00'02" E	4.27'	
L12	N 88°30'33" E	3.92'	L27	S 87°58'57" W	6.00'	L42	N 88°08'34" W	11.00'	
L13	N 88°08'34" E	6.96'	L28	S 87°58'57" W	19.98'	L43	S 87°55'15" W	154.68'	
L14	S 88°02'55" W	6.00'	L29	N 87°59'11" E	20.25'	L44	N 87°55'15" E	134.58'	
L15	N 88°08'34" E	11.00'	L30	S 88°02'55" W	32.00'	L45	S 01°28'23" E	10.00'	



R.O.W. PLAT	MADE		BY	DATE
	CHECKED			
	INKED			
NOTEBOOK NO.				

CORNER	STATION	OFFSET
A	139+89.18	77.00 R
B	139+85.87	85.00 R
C	140+09.07	96.84 R
D	141+08.50	97.84 R
E	140+19.33	177.84 R
F	141+01.97	223.60 R
F	380+28.31	40.00 L
G	141+01.67	90.63 R
G	378+95.34	40.00 L
H	141+11.87	89.11 R
H	379+33.84	40.00 L
I	141+23.51	68.73 R
J	141+26.74	74.00 R
K	137+51.82	70.00 L
L	138+25.60	65.00 L
M	138+25.62	76.00 L
N	139+27.46	65.00 L
O	139+97.71	76.00 L
P	145+44.86	73.00 L
Q	145+44.86	105.00 L
R	145+79.86	105.00 L
S	145+79.86	86.00 L
T	145+05.01	85.00 L
U	150+22.56	69.25 L
V	150+22.56	64.98 L

RECEIVED  
NOV 26 2012 *BC*  
PLATS & LEGALS

**SEE SHEET 52 FOR COORDINATE VALUES  
FOR CENTERLINE POINTS, SECTIONS  
CORNERS AND ROW MONUMENTS**

DOT14 — 090746 SHEET 1 IS A COVER SHEET AND IS NOT RECORDED

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PLAT OF HIGHWAYS  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SECTION: 131st St to 179th St COOK COUNTY  
PROJECT: JOB NO. R-90-004-07

STATION 137+00 TO STATION 150+00

SCALE: 1" = 50'

SHEET 11 OF 55

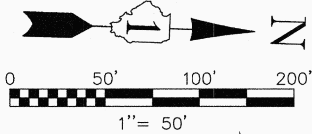
BUREAU OF LAND ACQUISITION  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196

RECORDING: RECORDED ON \_\_\_\_\_

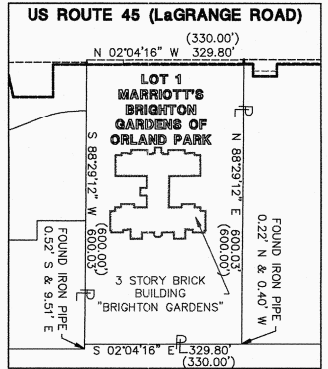
AS DOCUMENT NO.

PT OF NE 1/4 SEC 21 & PT OF NW 1/4 SEC 22, T36N. R12E OF THE 3RD PM, COOK CO. IL

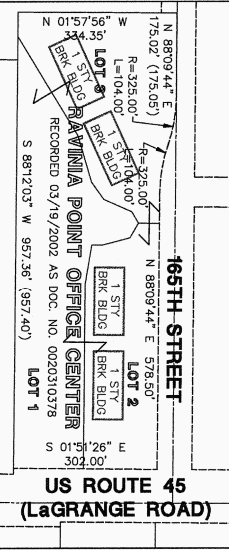
PARCEL No.	OWNER	TOTAL HOLDINGS (ACRES)	PART TAKEN (ACRES)	PREVIOUSLY DEDICATED (ACRES)	REMAINDER (ACRES)	EASEMENT AREA (ACRES)	PERMANENT INDEX NUMBER	PURPOSE OF EASEMENT	ACQUIRED BY
OH40023	STANDARD BANK AND TRUST AS TRUSTEE UNDER TRUST NO. 20260	2.152	0.014	0.000	2.138	0.000	27-22-102-049	N/A	
OH40023TE-A		N/A	N/A	N/A	N/A	250 SQ. FT. (0.006 AC.)		TEMPORARY	
OH40023TE-B		N/A	N/A	N/A	N/A	271 SQ. FT. (0.006 AC.)		TEMPORARY	
OH40024TE	SASS ORLAND, LLC	1.540	N/A	N/A	N/A	0.201	27-22-102-047	TEMPORARY	
OH40131TE	MAIN STREET VILLAGE WEST - PART 1, LLC	0.365	N/A	N/A	N/A	0.026	27-21-201-004	TEMPORARY	
OH40132TE	MAIN STREET VILLAGE WEST - PART 1, LLC - SERIES 1	0.405	N/A	N/A	N/A	0.034	27-21-202-011	TEMPORARY	
OH40133TE	JR HOLDINGS, LTD.	1.366	N/A	N/A	N/A	0.054	27-21-202-012	TEMPORARY	
OH40134	TATUM AND SHEA, LTD.	1.503	0.047	0.000	1.456	0.052	27-21-202-013	TEMPORARY	
OH40146TE	CNL RETIREMENT PARTNERS, L.P.	4.543	N/A	N/A	N/A	0.076	27-22-100-026	TEMPORARY	



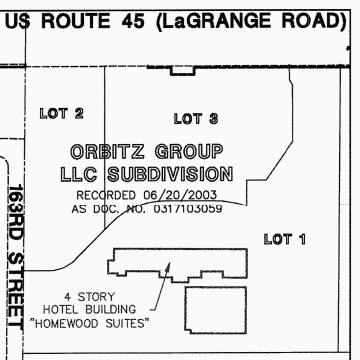
LINE TABLE		
LINE	BEARING	LENGTH
L1	N 87°55'44" E	4.05'
L2	S 88°30'33" W	3.92'
L3	N 87°55'44" E	15.00'
L4	S 02°04'16" E	40.01'
L5	S 87°55'44" W	15.00'
L6	N 02°04'16" W	40.01'
L7	N 87°55'33" E	4.27'
L8	S 87°55'44" W	4.13'
L9	N 88°29'12" E	5.31'
L10	N 01°57'05" W	98.88'
L11	N 88°02'55" E	14.75'
L12	S 88°02'55" W	3.00'
L13	N 88°00'02" E	11.01'
L14	N 01°57'05" W	35.70'
L15	S 88°02'55" W	4.00'
L16	N 01°57'05" W	78.91'
L17	S 48°59'21" W	21.21'
L18	S 43°01'39" W	24.05'
L19	N 88°01'54" E	16.99'
L20	S 88°29'12" W	10.00'
L21	N 88°29'12" E	10.00'
L22	N 01°57'05" W	36.92'
L23	N 88°00'02" E	4.27'
L24	S 88°00'02" W	4.27'
L25	N 01°57'05" W	27.44'
L26	S 88°02'55" W	3.75'
L27	N 01°57'05" W	51.82'



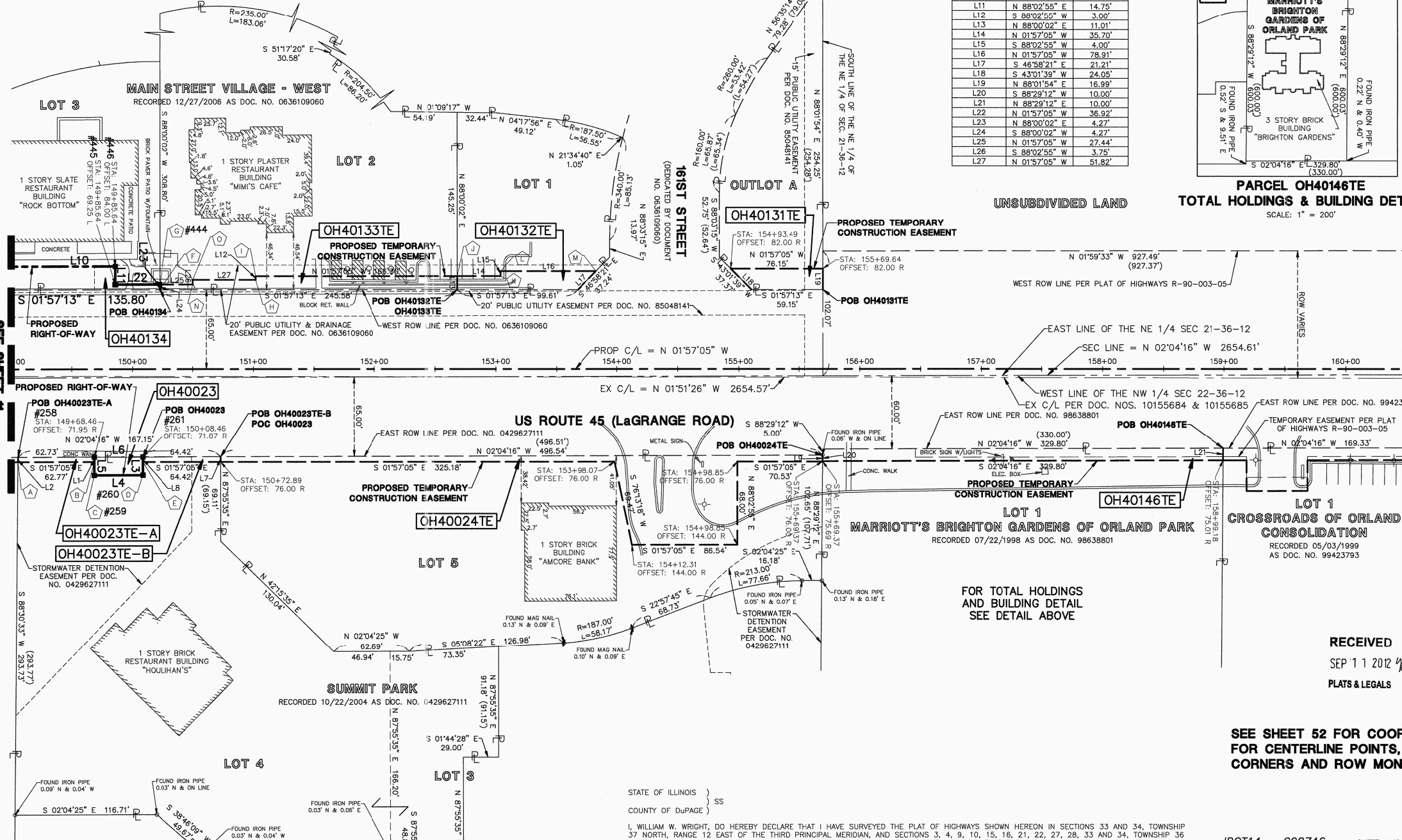
PARCEL OH40146TE  
TOTAL HOLDINGS & BUILDING DETAIL  
SCALE: 1" = 200'



PARCEL OH40139  
TOTAL HOLDINGS & BUILDING DETAIL  
SCALE: 1" = 200'



PARCEL OH40022TE BUILDING DETAIL  
SCALE: 1" = 200'



LEGEND

- SECTION CORNER
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- CENTERLINE
- EXISTING RIGHT-OF-WAY LINE
- PROPOSED RIGHT-OF-WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORD DATA
- EXISTING BUILDING
- EX. CONCRETE CURB & GUTTER
- EX. EDGE OF PAVEMENT
- EX. GUARD RAIL

PK NAIL SET

IRON ROD SET

IRON PIPE OR ROD FOUND

CUT OR CROSS FOUND OR SET

THESE STAKES REFERENCE FOUND OR SET MONUMENTATION, WITNESS POINTS SET TO AID IN THE RECOVERY AND ESTABLISHMENT OF THE PROPOSED CENTERLINE OF CONSTRUCTION.

STAKING OF PROPOSED RIGHT OF WAY. MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

POINT OF BEGINNING

POINT OF COMMENCEMENT

EX. MISCELLANEOUS MANHOLE (MH)

EX. STORM MANHOLE (MH)

EX. STORM CATCH BASIN (CB)

EX. STORM INLET (INL)

EX. FLARED END SECTION (FES)

EX. SANITARY MANHOLE (SMH)

EX. FIRE HYDRANT/AUX. VALVE

EX. VALVE BOX

EX. VALVE VAULT (V.V.)

EX. IRRIGATION CONTROL BOX

EX. ELECTRICAL METER

EX. ELECTRICAL OUTLET

EX. UTILITY POLE

EX. UTILITY POLE WITH LIGHT

EX. GUY WIRE

EX. LIGHT STANDARD

EX. STREET LIGHT

EX. GROUND LIGHT

EX. SIGN

EX. DOUBLE POLE SIGN

EX. MAILBOX

EX. BOLLARD

EX. FLAG POLE

CORNER	STATION	OFFSET
A	149+05.70	76.00 R
B	149+03.46	76.00 R
C	149+03.49	86.95 R
D	150+03.49	86.87 R
E	150+03.47	76.00 R
F	150+22.56	64.98 L
G	150+22.56	69.25 L
H	151+01.82	73.00 L
I	151+01.82	76.00 L
J	152+63.13	76.00 L
K	153+03.83	76.00 L
L	153+03.83	80.00 L
M	153+82.74	80.00 L
N	150+50.00	69.25 L
O	150+50.00	73.00 L

STATE OF ILLINOIS } SS  
COUNTY OF DuPAGE }

I, WILLIAM W. WRIGHT, DO HEREBY DECLARE THAT I HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 33 AND 34, TOWNSHIP 36 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, AND SECTIONS 3, 4, 9, 10, 15, 16, 21, 22, 27, 28, 33 AND 34, TOWNSHIP 36 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, ALL IN COOK COUNTY, ILLINOIS; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY; THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LEMONT, ILLINOIS THIS 21ST DAY OF AUGUST A.D., 2012.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3502  
LICENSE EXPIRES NOVEMBER 30, 2012

DESIGN FIRM LICENSE NO. 184003350  
LICENSE EXPIRES APRIL 30, 2013

BEARINGS SHOWN HEREON ARE BASED ON ILLINOIS STATE PLANE COORDINATES, EAST ZONE, NORTH AMERICAN DATUM OF 1983. ALL COORDINATE AND DIMENSIONAL VALUES SHOWN HEREON ARE "GROUND" NOT "GRID".

COMBINED SCALE FACTOR (GROUND TO GRID) = 0.999966013

09/11/12	NEW OWNER - PARCEL OH40024TE	BJP
01/13/12	ADDED IMPROVEMENTS TO PARCEL OH40146TE	WWW
10/17/11	ISSUED FINAL SURVEY TO IDOT	BJP
09/22/11	PARCEL OH40024TE OWNERSHIP CHANGE	BJP
07/27/11	ADDED POINT NUMBERS FOR COORDINATE TABLE	WWW
04/04/11	REVISED PARCEL OH40133TE PER IDOT REVIEW	WWW
10/08/10	ADDED PARCEL OH40146TE	SJP
REVISION DATE	DESCRIPTION	INITIALS



IDOT14 - 090746 SHEET 1 IS A COVER SHEET AND IS NOT RECORDED



PLAT OF HIGHWAYS  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FAP 330/US ROUTE 45  
SECTION: 131st St to 179th St COOK COUNTY  
PROJECT: JOB NO. R-90-004-07  
STATION 150+00 TO STATION 160+50

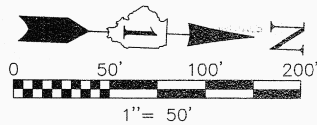
SCALE: 1" = 50' SHEET 12 OF 55

BUREAU OF LAND ACQUISITION  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196

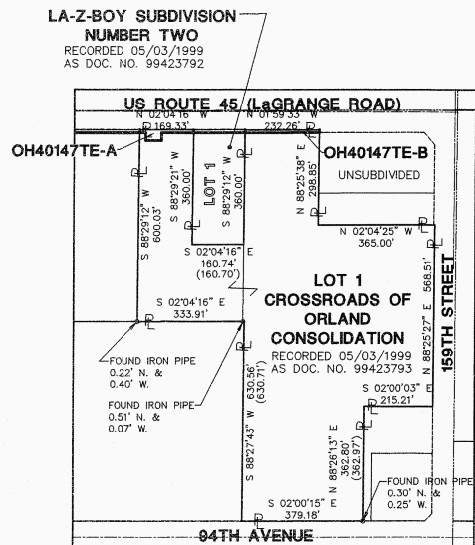
RECORDING: RECORDED ON AS DOCUMENT NO.

PT OF NE1/4 SEC 21 & PT OF NW 1/4 SEC 22, T36N, R12E OF THE 3RD PM, COOK CO. IL

PARCEL No.	OWNER	TOTAL HOLDINGS (ACRES)	PART TAKEN (ACRES)	PREVIOUSLY DEDICATED (ACRES)	REMAINDER (ACRES)	EASEMENT AREA (ACRES)	PERMANENT INDEX NUMBER	PURPOSE OF EASEMENT	ACQUIRED BY
OH40147TE-A	INTER-CONTINENTAL REAL ESTATE AND DEVELOPMENT CORPORATION	15.744	N/A	N/A	N/A	0.068	27-22-103-029	TEMPORARY	
OH40147TE-B						0.048	27-22-103-028	TEMPORARY	
OH40148TE	LA-Z RECLINER SHOP, INC.	1.328	N/A	N/A	N/A	0.037	27-22-103-027	TEMPORARY	

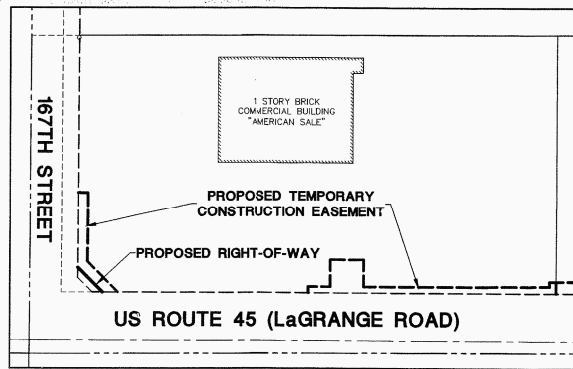


F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330/US 45	131st St to 179th St	COOK	932	406A
STATION 160+50 TO STATION 169+00				
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

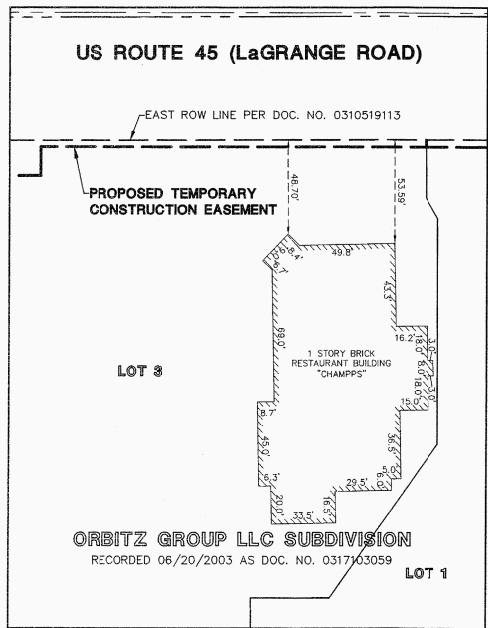
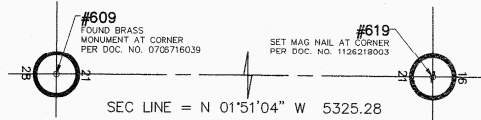


PARCEL OH40147TE-A & OH40147TE-B  
TOTAL HOLDINGS DETAIL  
SCALE: 1" = 300'

SEE SHEET 52 FOR COORDINATE VALUES  
FOR CENTERLINE POINTS, SECTIONS  
CORNERS AND ROW MONUMENTS

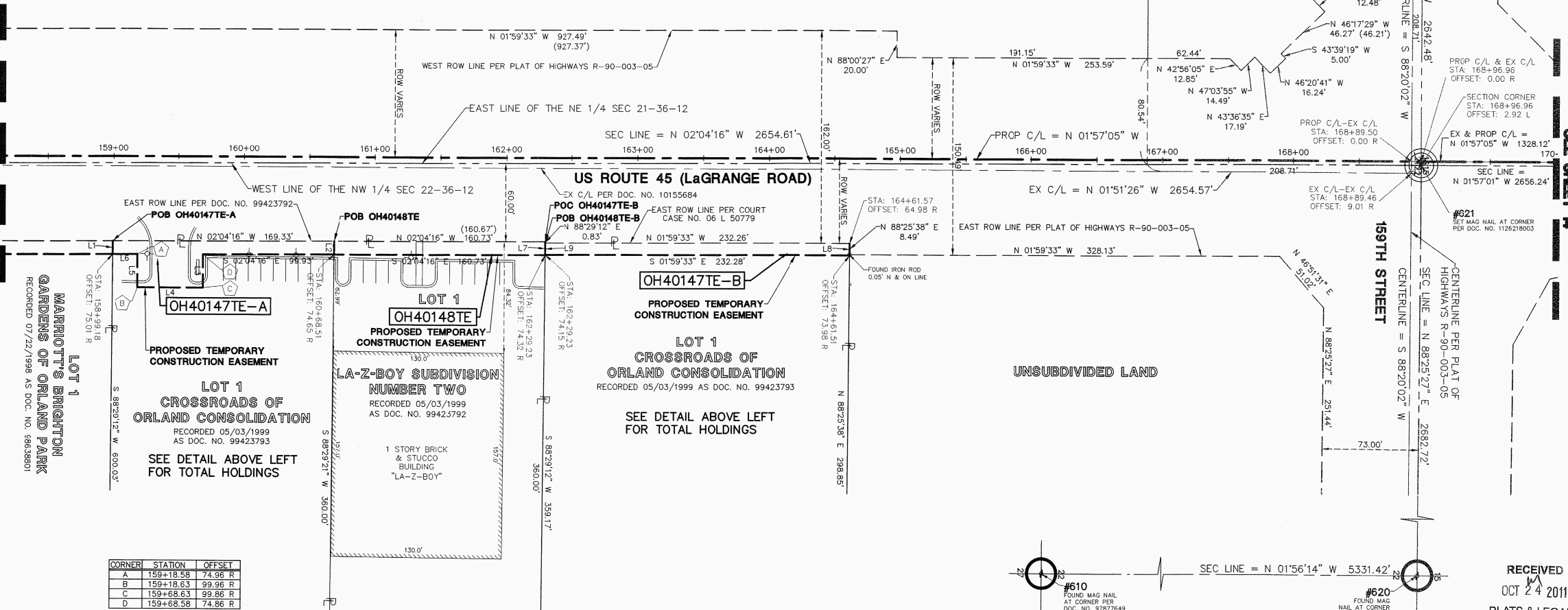


PARCEL OH40143 BUILDING DETAIL  
SCALE: 1" = 100'



PARCEL OH40021TE BUILDING DETAIL  
SCALE: 1" = 50'

SEE SHEET 52



CORNER	STATION	OFFSET
A	159+18.58	74.96 R
B	159+18.63	99.96 R
C	159+68.63	99.86 R
D	159+68.58	74.86 R

STATE OF ILLINOIS }  
COUNTY OF DU PAGE } SS

I, WILLIAM W. WRIGHT, DO HEREBY DECLARE THAT I HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 33 AND 34, TOWNSHIP 37 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, AND SECTIONS 3, 4, 9, 10, 15, 16, 21, 22, 27, 28, 33 AND 34, TOWNSHIP 36 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, ALL IN COOK COUNTY, ILLINOIS; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY; THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LOMBARD, ILLINOIS THIS 17th DAY OF OCTOBER A.D., 2011.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3502  
LICENSE EXPIRES NOVEMBER 30, 2012

DESIGN FIRM LICENSE NO. 184003350  
LICENSE EXPIRES APRIL 30, 2013

BEARINGS SHOWN HEREON ARE BASED ON ILLINOIS STATE PLANE COORDINATES, EAST ZONE, NORTH AMERICAN DATUM OF 1983. ALL COORDINATE AND DIMENSIONAL VALUES SHOWN HEREON ARE "GROUND" NOT "GRID".

COMBINED SCALE FACTOR (GROUND TO GRID) = 0.999966013

REVISION DATE	DESCRIPTION	INITIALS
10/17/11	ISSUED FINAL SURVEY TO IDOT	BJP
07/27/11	ADDED POINT NUMBERS FOR COORDINATE TABLE	WWW
11/10/10	REVISED PER IDOT REVIEW	SJP
10/08/10	ADDED PARCELS OH40147TE-A, OH40147TE-B & OH40148TE	SJP
09/17/10	PER IDOT REVIEW	BJP
REVISION DATE	DESCRIPTION	INITIALS



IDOT14 -- 090746

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED

**Manhard**  
CONSULTING LTD.

PLAT OF HIGHWAYS  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
FAP 330/US ROUTE 45  
SECTION: 131st St to 179th St COOK COUNTY  
PROJECT: JOB NO. R-90-004-07  
STATION 160+50 TO STATION 169+00

SCALE: 1" = 50'

SHEET 13 OF 55

BUREAU OF LAND ACQUISITION  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196

RECORDING: RECORDED ON

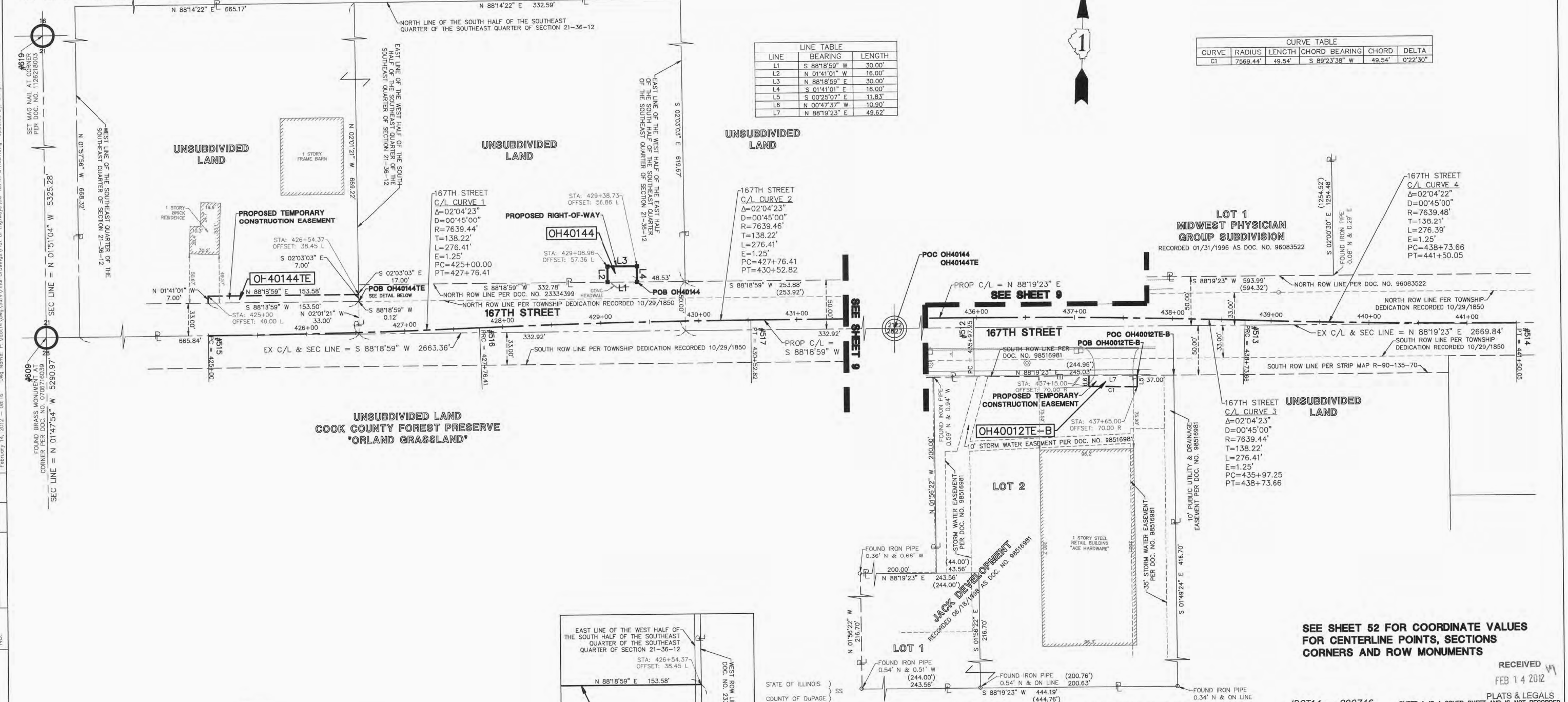
AS DOCUMENT NO.

DATE	BY	MADE	CHECKED	INKE	NOTEBOOK

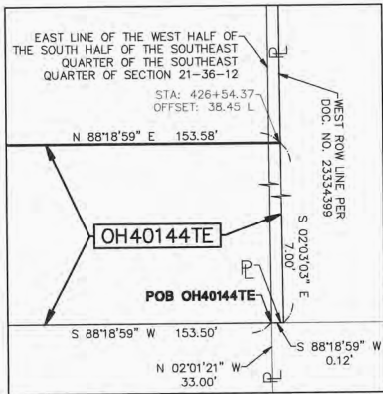
PT OF SEC 21, 22, 27 & 28, T36N, R12E OF THE 3RD PM, COOK CO. IL

PARCEL No.	OWNER	TOTAL HOLDINGS (ACRES)	PART TAKEN (ACRES)	PREVIOUSLY DEDICATED (ACRES)	REMAINDER (ACRES)	EASEMENT AREA (ACRES)	PERMANENT INDEX NUMBER	PURPOSE OF EASEMENT	ACQUIRED BY
OH40012**	JACK DEVELOPMENT, LLC	3.335	0.169	0.000	3.166	0.000	27-27-100-023	N/A	
OH40012TE-A**		N/A	N/A	N/A	N/A	0.032		TEMPORARY	
OH40012TE-B		N/A	N/A	N/A	N/A	0.013		TEMPORARY	
OH40144	CHARLES AND CAROL PETRAK	14.949	0.011	0.000	14.938	0.025	27-21-403-005 27-21-403-006 27-21-403-007	TEMPORARY	

\*\* SEE SHEET 9 FOR DETAIL OF OH40012 AND OH40012TE-A



LEGEND	
	SECTION CORNER
	QUARTER SECTION CORNER
	SECTION LINE
	QUARTER SECTION LINE
	QUARTER SECTION LINE
	PLATTED LOT LINE
	PROPERTY (DEED) LINE
	CENTERLINE
	EXISTING RIGHT-OF-WAY LINE
	PROPOSED RIGHT-OF-WAY LINE
	PROPOSED EASEMENT
	MEASURED DIMENSION
	COMPUTED DIMENSION
	RECORD DATA
	EXISTING BUILDING
	EX. CONCRETE CURB & GUTTER
	EX. EDGE OF PAVEMENT
	EX. GUARD RAIL
	PK NAIL SET
	REPLACED AFTER CONSTRUCTION
	IRON PIPE OR ROD FOUND
	CUT CROSS FOUND OR SET
	THESE STAKES REFERENCE FOUND OR SET MONUMENTATION, WITNESS POINTS
	SET TO AID IN THE RECOVERY AND ESTABLISHMENT OF THE PROPOSED CENTERLINE OF CONSTRUCTION
	STAKING OF PROPOSED RIGHT OF WAY. MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
	POINT OF BEGINNING
	POINT OF COMMENCEMENT
	EX. MISCELLANEOUS MANHOLE (MH)
	EX. STORM MANHOLE (MH)
	EX. STORM CATCH BASIN (CB)
	EX. STORM INLET (INL)
	EX. FLARED END SECTION (FES)
	EX. SANITARY MANHOLE (SMH)
	EX. FIRE HYDRANT/AUX. VALVE
	EX. VALVE BOX
	EX. VALVE VAULT (V.V.)
	EX. IRRIGATION CONTROL BOX
	EX. ELECTRICAL METER
	EX. ELECTRICAL OUTLET
	EX. UTILITY POLE
	EX. UTILITY POLE WITH LIGHT
	EX. GUY WIRE
	EX. LIGHT STANDARD
	EX. STREET LIGHT
	EX. GROUND LIGHT
	EX. SIGN
	EX. DOUBLE POLE SIGN
	EX. MAILBOX
	EX. BOLLARD
	EX. FLAG POLE



EASEMENT DETAIL  
SCALE: 1" = 1'

STATE OF ILLINOIS }  
COUNTY OF DU PAGE }

I, WILLIAM W. WRIGHT, DO HEREBY DECLARE THAT I HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 33 AND 34, TOWNSHIP 37 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, AND SECTIONS 3, 4, 9, 10, 15, 16, 21, 22, 27, 28, 33 AND 34, TOWNSHIP 36 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, ALL IN COOK COUNTY, ILLINOIS; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY; THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED BY MANHARD, ILLINOIS THIS 14TH DAY OF FEBRUARY A.D., 2012.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3502  
LICENSE EXPIRES NOVEMBER 30, 2012

DESIGN FIRM LICENSE NO. 184003350  
LICENSE EXPIRES APRIL 30, 2013

BEARINGS SHOWN HEREON ARE BASED ON ILLINOIS STATE PLANE COORDINATES, EAST ZONE, NORTH AMERICAN DATUM OF 1983. ALL COORDINATE AND DIMENSIONAL VALUES SHOWN HEREON ARE "GROUND" NOT "GRID".

COMBINED SCALE FACTOR (GROUND TO GRID) = 0.999968013

02/14/12	REVISED PER IDOT REVIEW	WWW
10/17/11	ISSUED FINAL SURVEY TO IDOT	BJP
07/27/11	ADDED POINT NUMBERS FOR COORDINATE TABLE	WWW
07/14/11	CHANGE TEMPORARY EASEMENT OH40145TE-F	BJP
03/01/11	REVISED PER IDOT REVIEW	WWW
02/14/11	PER ENGINEERING CONSULTANT MEMO	BJP
11/24/10	REVISED PER IDOT REVIEW	BJP
REVISION DATE	DESCRIPTION	INITIALS

SEE SHEET 52 FOR COORDINATE VALUES  
FOR CENTERLINE POINTS, SECTIONS  
CORNERS AND ROW MONUMENTS

RECEIVED  
FEB 14 2012

IDOT14 - 090746

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED

**Manhard**  
CONSULTING LTD

700 Springfield Drive, Lombard, IL 60148 phone 630.261.8200 fax 630.261.8201 manhard.com  
Civil Engineers • Surveyors • Water Resources Engineers • Water & Wastewater Engineers  
Construction Managers • Environmental Scientists • Landscape Architects • Planners

PLAT OF HIGHWAYS  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FAP 330/US ROUTE 45  
SECTION: 131st St to 179th St COOK COUNTY  
PROJECT: JOB NO. R-90-004-07  
167TH STREET - STATION 425+00 TO STATION 441+50.05

SCALE: 1" = 50' SHEET 30 OF 55

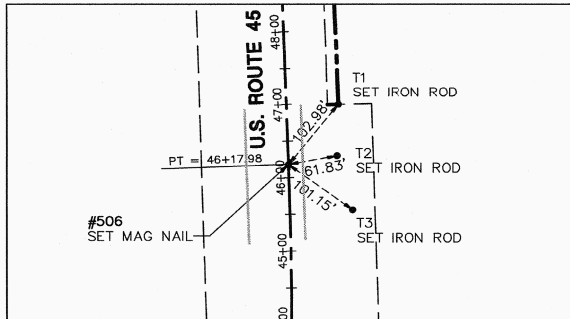
BUREAU OF LAND ACQUISITION  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196

RECORDING: RECORDED ON

AS DOCUMENT NO.

COORDINATE TABLE																				F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
																				330/US 45	131st St to 179th St	COOK	932	406C
COORDINATE TABLE																								
FED. ROAD DIST. NO. 1																				ILLINOIS	FED. AID PROJECT			

**DETAIL OF POINT NO. 506**  
**SCALE: 1" = 120'**



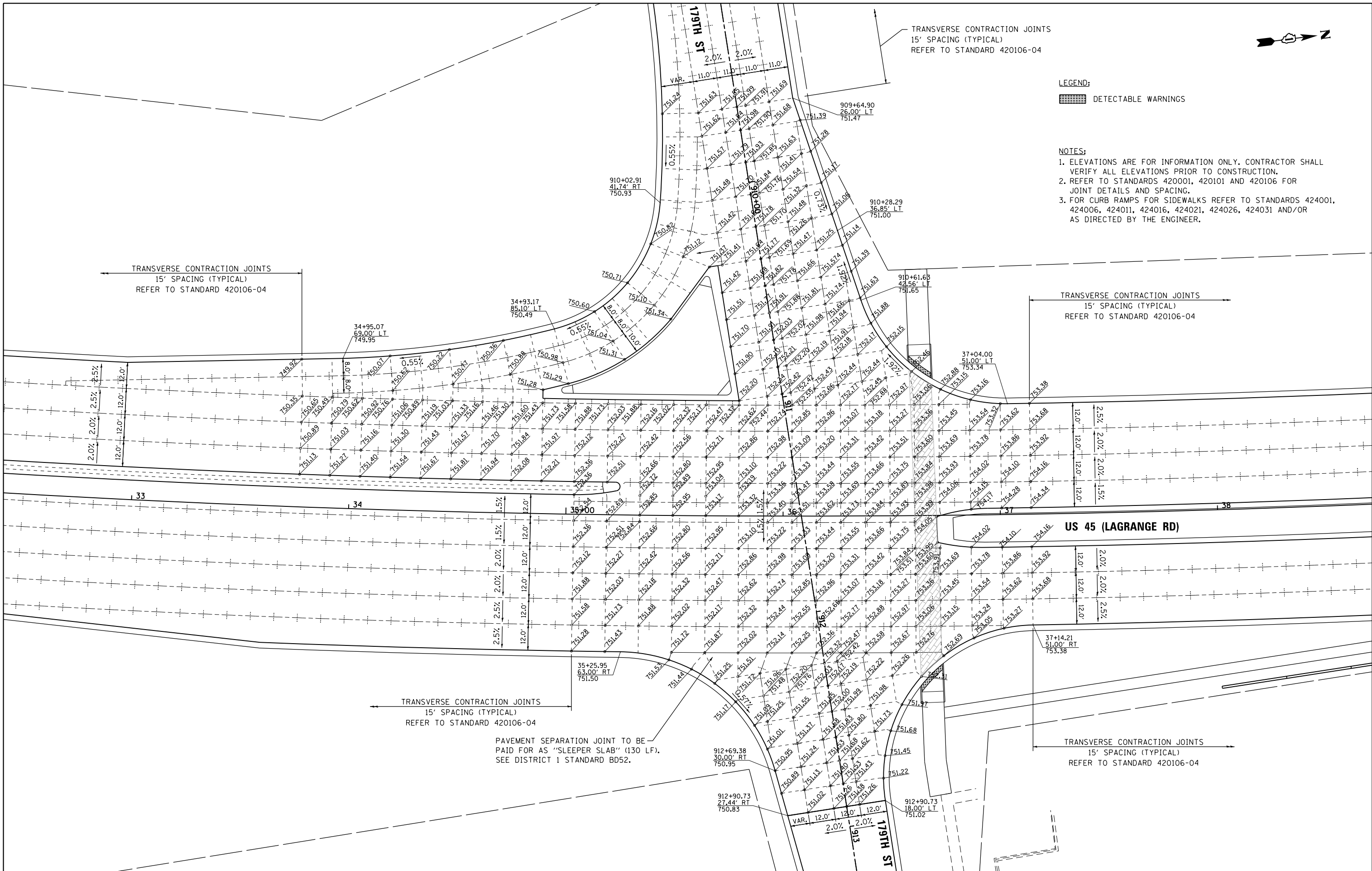
R.O.W. PLAT	MADE	BY	DATE
	CHECKED		
	INKED		
NOTEBOOK NO.			

STAKING OF PROPOSED RIGHT OF WAY.  
MARKER TO MONUMENT THE POSITION  
SHOWN. IDENTIFIED BY INSCRIPTION  
DATA AND SURVEYORS REGISTRATION  
NUMBER.



AS DOCUMENT NO.

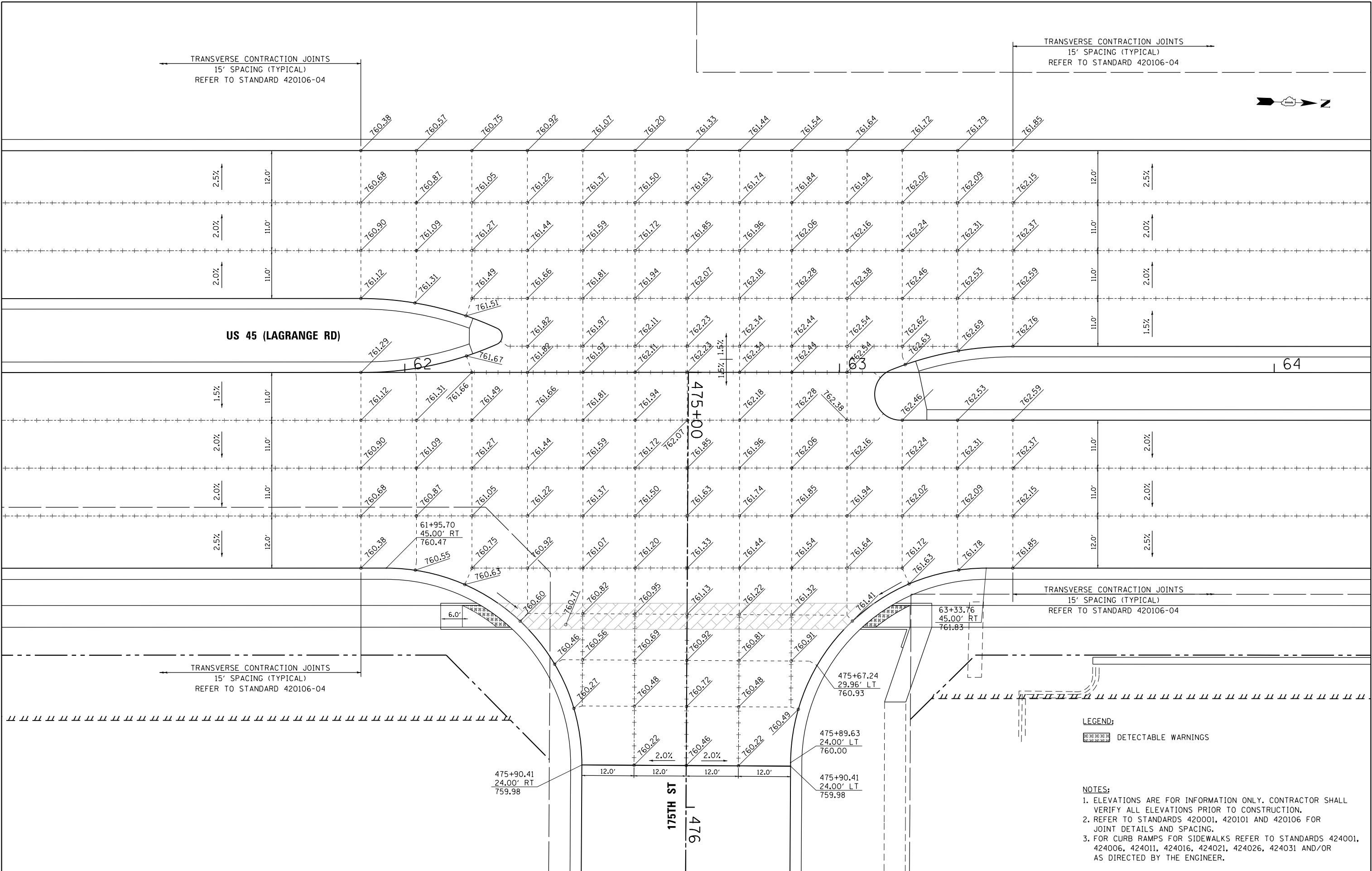
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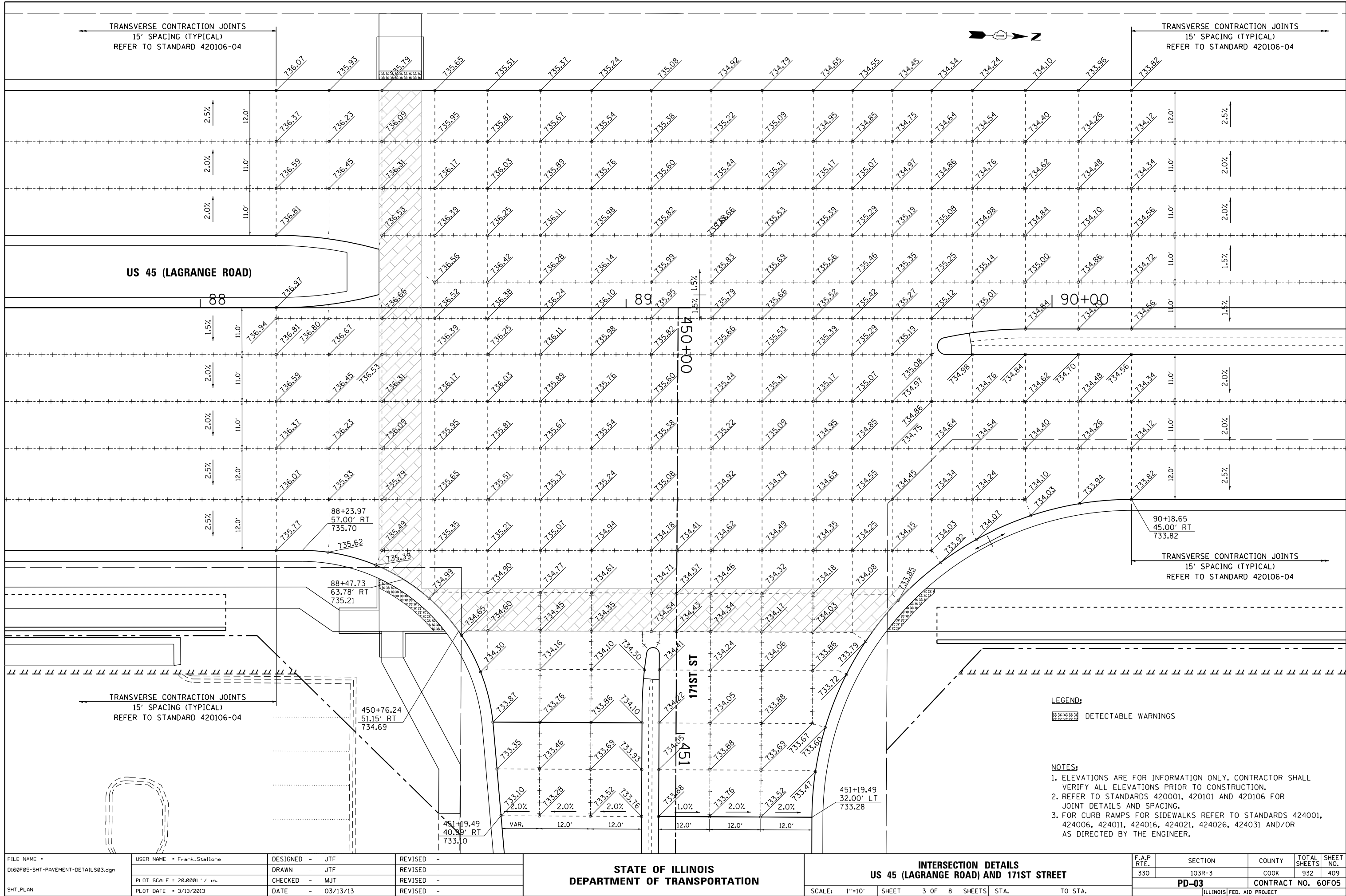
LEGEND:  
[Hatched Box] DETECTABLE WARNINGS

- NOTES:
1. ELEVATIONS ARE FOR INFORMATION ONLY. CONTRACTOR SHALL VERIFY ALL ELEVATIONS PRIOR TO CONSTRUCTION.
  2. REFER TO STANDARDS 420001, 420101 AND 420106 FOR JOINT DETAILS AND SPACING.
  3. FOR CURB RAMPS FOR SIDEWALKS REFER TO STANDARDS 424001, 424006, 424011, 424016, 424021, 424026, 424031 AND/OR AS DIRECTED BY THE ENGINEER.

FILE NAME = D160F05-SHT-PAVEMENT-DETAILS01.dgn  SHT_PLAN	USER NAME = Frank.Stallone	DESIGNED - JTF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERSECTION DETAILS US 45 (LAGRANGE ROAD) AND 179TH STREET				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - JTF	REVISED -						330	103R-3	COOK	932	407
	PLOT SCALE = 40.0001' / in.	CHECKED - MJT	REVISED -		PD-01		CONTRACT NO. 60F05						
	PLOT DATE = 3/13/2013	DATE - 03/13/13	REVISED -		SCALE: 1"=20'	SHEET 1 OF 8 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				



FILE NAME = D160F05-SHT-PAVEMENT-DETAILS02.dgn	USER NAME = Frank.Stallone		DESIGNED - JTF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERSECTION DETAILS US 45 (LAGRANGE ROAD) AND 175TH STREET		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - JTF		CHECKED - MJT	REVISED -				330	103R-3	COOK	932	408
	PLOT SCALE = 20.0001' / in.		DATE - 03/13/13	REVISED -				PD-02		CONTRACT NO. 60F05		
SHT_PLAN	PLOT DATE = 3/13/2013		DATE - 03/13/13		SCALE: 1"=10'		SHEET 2 OF 8 SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT	



 DETECTABLE WARNINGS

1. ELEVATIONS ARE FOR INFORMATION ONLY. CONTRACTOR SHALL VERIFY ALL ELEVATIONS PRIOR TO CONSTRUCTION.
2. REFER TO STANDARDS 420001, 420101 AND 420106 FOR JOINT DETAILS AND SPACING.
3. FOR CURB RAMPS FOR SIDEWALKS REFER TO STANDARDS 424001, 424006, 424011, 424016, 424021, 424026, 424031 AND/OR AS DIRECTED BY THE ENGINEER.

TRANSVERSE CONTRACTION JOINTS  
15' SPACING (TYPICAL)  
REFER TO STANDARD 420106-04

TRANSVERSE CONTRACTION JOINTS  
15' SPACING (TYPICAL)  
REFER TO STANDARD 420106-04

**US 45 (LAGRANGE ROAD)**

115+00

116

---

117

TRANSVERSE CONTRACTION JOINTS  
15' SPACING (TYPICAL)  
REFER TO STANDARD 420106-04

TRANSVERSE CONTRACTION JOINTS  
15' SPACING (TYPICAL)  
REFER TO STANDARD 420106-04

**URS**  
100 S. WACKER DR.  
SUITE 500  
CHICAGO IL 60606  
TEL (312)-939-1000  
FAX (312)-939-4198

FILE NAME =  
D160F05-SHT-PAVEMENT-DETAILS04.dgn

USER NAME	= Frank.Stallone
-----------	------------------

DESIGNED - JTF
----------------

DRAWN	-	JTF
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PLOT SCALE = 20.0001' / in.

CHECKED - MJT

PLOT DATE = 3/13/2013

DATE - 03/

REVISÉ -

REVISÉ -

REVISÉ -

REVISED -

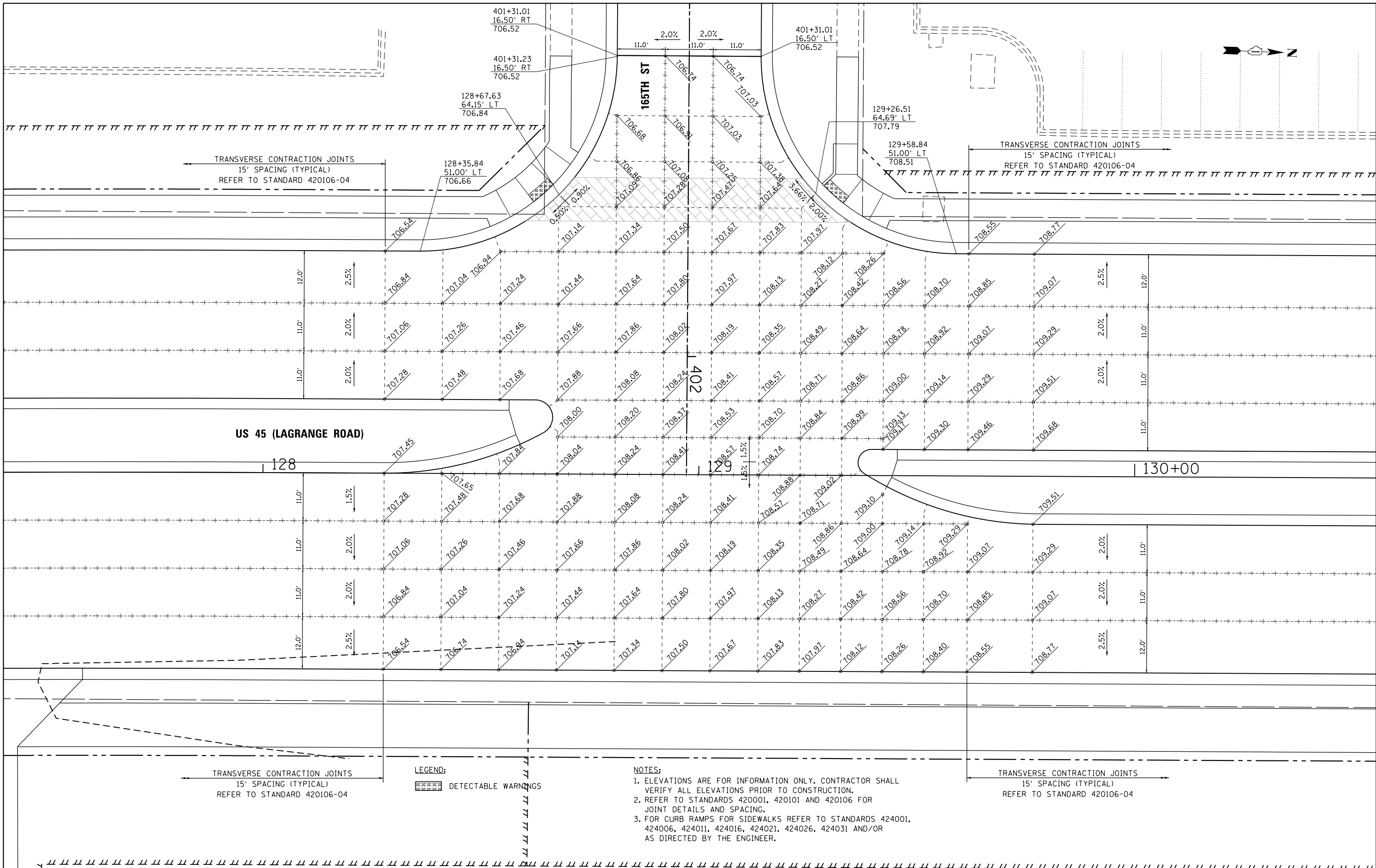
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

### INTERSECTION DETAILS

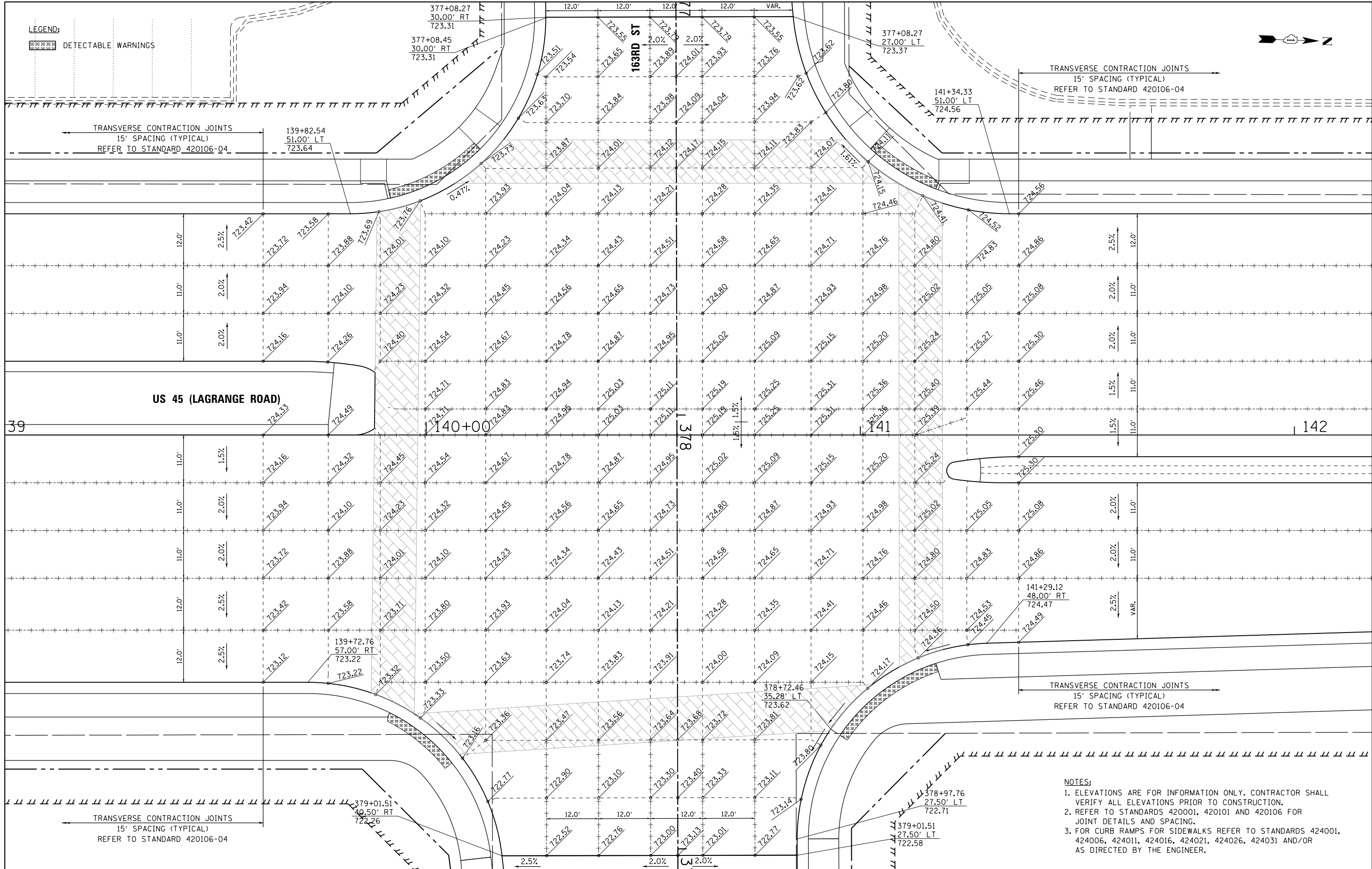
#### US 45 (LAGRANGE ROAD) AND 167TH STREET

SCALE: 1"=10'	SHEET 4 OF 8 SHEETS	STA.	TO STA.
---------------	---------------------	------	---------

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	410
<b>PD-04</b>		<b>CONTRACT NO. 60F05</b>		
ILLINOIS FED. AID PROJECT				

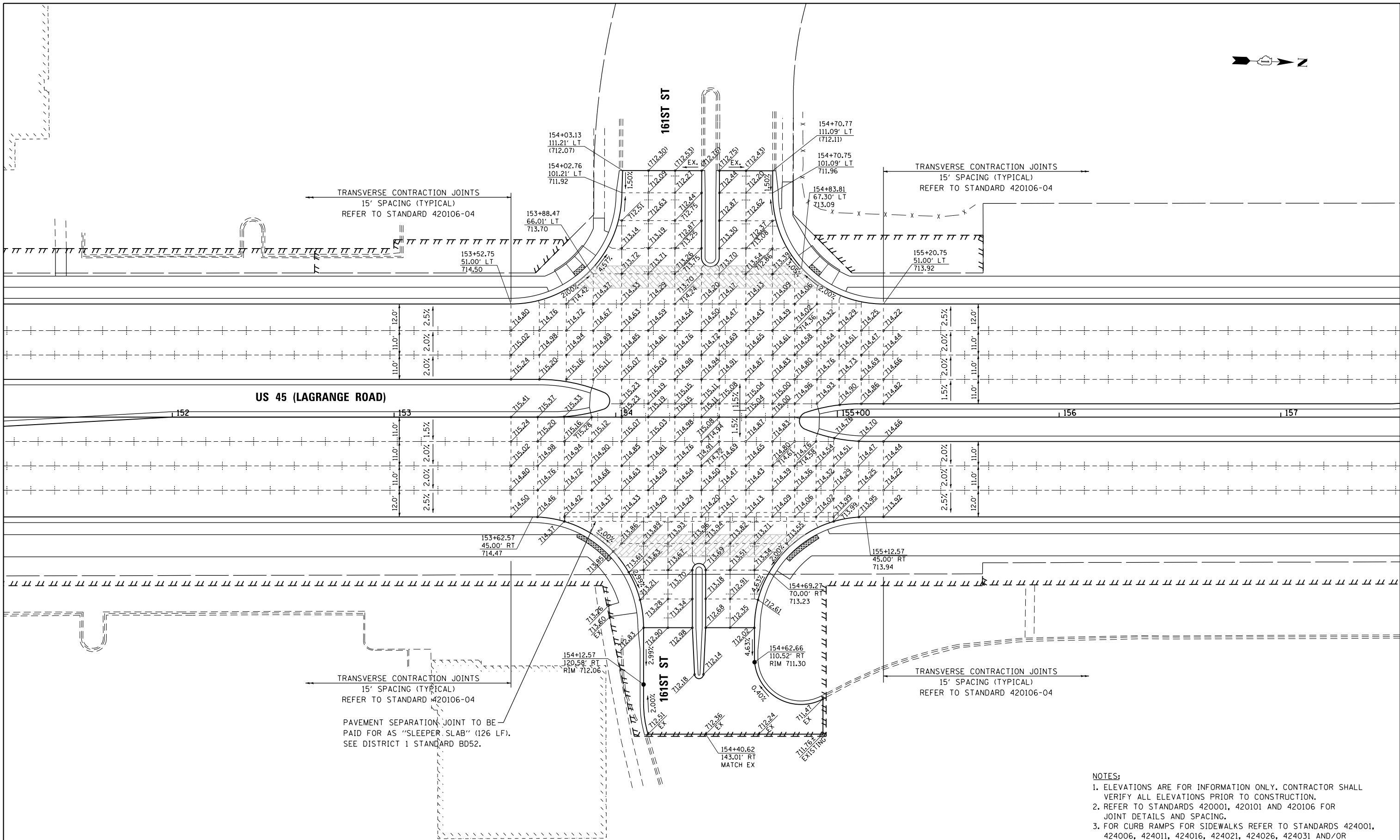


FILE NAME = D160F05-SHT-PAVEMENT-DETAILS05.dgn  SHT_PLAN	USER NAME = Frank.Stallone	DESIGNED - JTF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERSECTION DETAILS US 45 (LAGRANGE ROAD) AND 165TH STREET	SCALE: 1"=10'	SHEET 5 OF 8 SHEETS	STA. TO STA.	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		DRAWN - JTF	REVISED -						330	103R-3	COOK	932	411		
	PLOT SCALE = 20.0001' / in.	CHECKED - MJT	REVISED -						PD-05					CONTRACT NO. 60F05	
	PLOT DATE = 3/13/2013	DATE - 03/13/13	REVISED -						ILLINOIS FED. AID PROJECT						



- NOTES:**
1. ELEVATIONS ARE FOR INFORMATION ONLY. CONTRACTOR SHALL VERIFY ALL ELEVATIONS PRIOR TO CONSTRUCTION.
  2. REFER TO STANDARDS 420001, 420101 AND 420106 FOR JOINT DETAILS AND SPACING.
  3. FOR CURB RAMPS FOR SIDEWALKS REFER TO STANDARDS 424001, 424006, 424011, 424016, 424021, 424026, 424031 AND/OR AS DIRECTED BY THE ENGINEER.

FILE NAME = D160F05-SHT-PAVEMENT-DETAILS06.dgn  SHT_PLAN	USER NAME = Frank.Stallone	DESIGNED - JTF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERSECTION DETAILS US 45 (LAGRANGE ROAD) AND 163RD STREET				F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - JTF	REVISED -						330	103R-3	COOK	932	412
	PLOT SCALE = 20.0001' / in.	CHECKED - MJT	REVISED -		PD-06		CONTRACT NO. 60F05						
	PLOT DATE = 3/13/2013	DATE - 03/13/13	REVISED -		SCALE: 1"=10'	SHEET 6 OF 8 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				



- NOTES:
- ELEVATIONS ARE FOR INFORMATION ONLY. CONTRACTOR SHALL VERIFY ALL ELEVATIONS PRIOR TO CONSTRUCTION.
  - REFER TO STANDARDS 420001, 420101 AND 420106 FOR JOINT DETAILS AND SPACING.
  - FOR CURB RAMPS FOR SIDEWALKS REFER TO STANDARDS 424001, 424006, 424011, 424016, 424021, 424026, 424031 AND/OR AS DIRECTED BY THE ENGINEER.

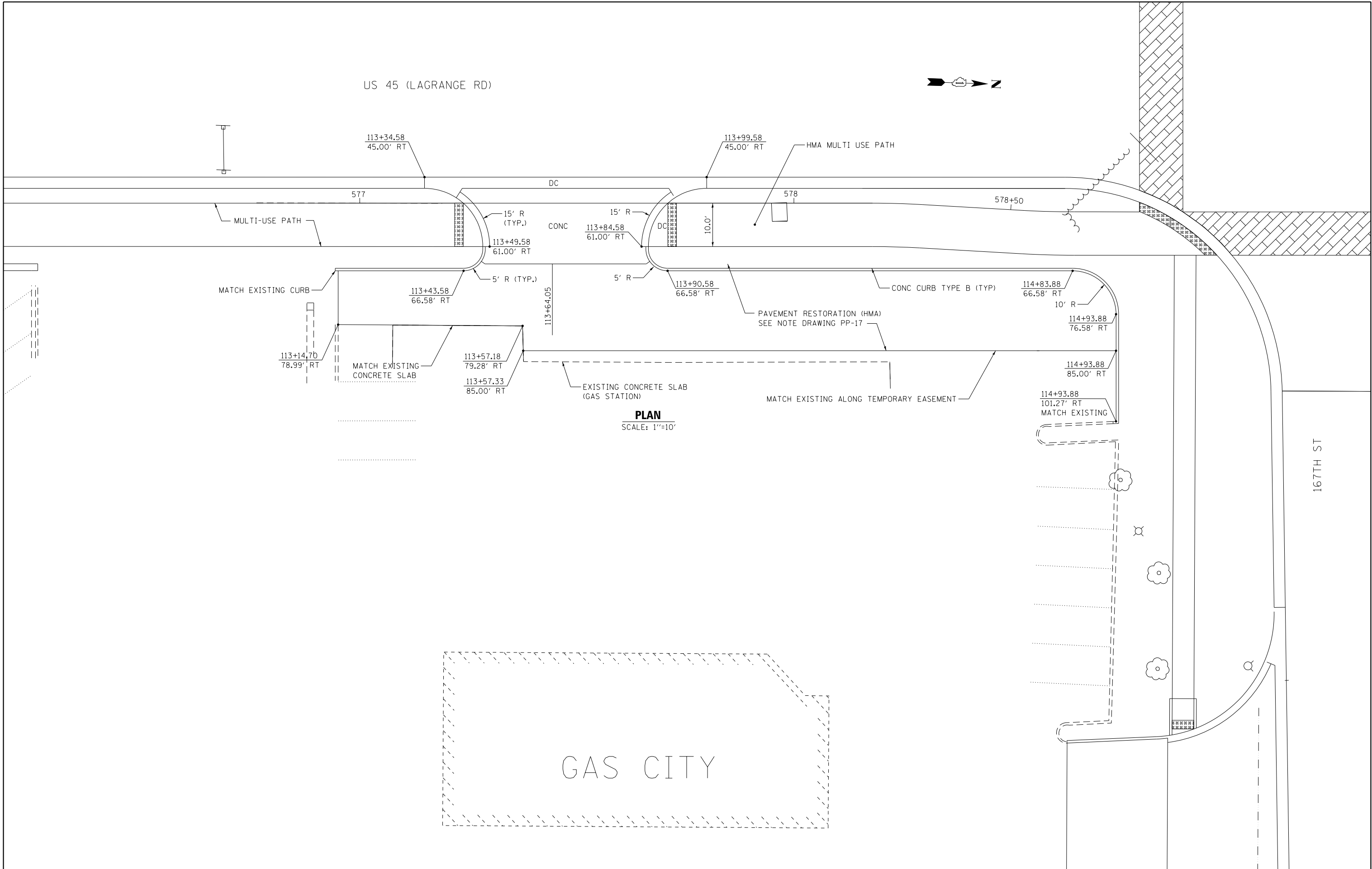
FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - JTF	REVISED -
D:\60F05-SHT-PAVEMENT-DETAILS\07.dgn		DRAWN - JTF	REVISED -
	PLOT SCALE = 40.0001' / in.	CHECKED - MJT	REVISED -
SHT_PLAN	PLOT DATE = 3/13/2013	DATE - 03/13/13	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INTERSECTION DETAILS  
US 45 (LAGRANGE ROAD) AND 161ST STREET

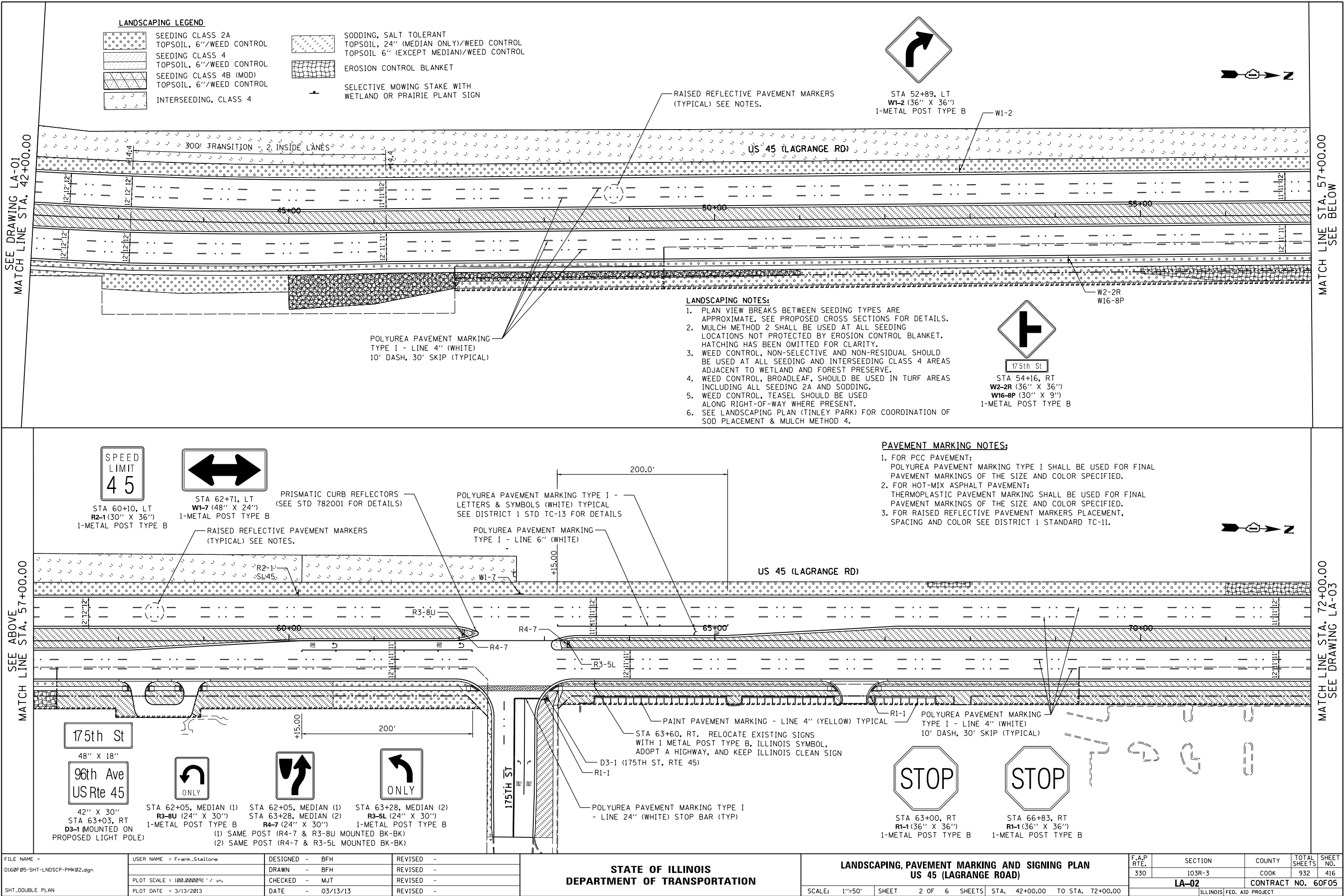
SCALE: 1"=20' SHEET 7 OF 8 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	413
PD-07		CONTRACT NO. 60F05		
ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - JTF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY PAVEMENT DETAILS AT STA. 113 + 82.50				F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D160F05-SHT-PAVEMENT-DETAILS08.dgn		DRAWN - JTF	REVISED -						330	103R-3	COOK	932	414
	PLOT SCALE = 20.0001 ' / in.	CHECKED - MJT	REVISED -		PD-08				CONTRACT NO. 60F05				
SHT_PLAN	PLOT DATE = 3/13/2013	DATE - 03/13/13	REVISED -		SCALE: AS SHOWN	SHEET 8 OF 8 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				





SEE DRAWING LA-01  
MATCH LINE STA. 42+00.00

MATCH LINE STA. 57+00.00  
SEE BELOW

SEE ABOVE  
MATCH LINE STA. 57+00.00

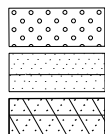
MATCH LINE STA. 72+00.00  
SEE DRAWING LA-03

SEE DRAWING LA-02  
MATCH LINE STA. 72+00.00

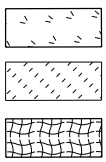
**LANDSCAPING NOTES:**

1. PLAN VIEW BREAKS BETWEEN SEEDING TYPES ARE APPROXIMATE. SEE PROPOSED CROSS SECTIONS FOR DETAILS.
2. MULCH METHOD 2 SHALL BE USED AT ALL SEEDING LOCATIONS NOT PROTECTED BY EROSION CONTROL BLANKET. HATCHING HAS BEEN OMITTED FOR CLARITY.
3. WEED CONTROL, NON-SELECTIVE AND NON-RESIDUAL SHOULD BE USED AT ALL SEEDING AND INTERSEEDING CLASS 4 AREAS ADJACENT TO WETLAND AND FOREST PRESERVE.
4. WEED CONTROL, BROADLEAF, SHOULD BE USED IN TURF AREAS INCLUDING ALL SEEDING 2A AND SODDING.
5. WEED CONTROL, TEASEL SHOULD BE USED ALONG RIGHT-OF-WAY WHERE PRESENT.
6. SEE LANDSCAPING PLAN (TINLEY PARK) FOR COORDINATION OF SOD PLACEMENT & MULCH METHOD 4.

**LANDSCAPING LEGEND**



SEEDING CLASS 2A  
TOPSOIL, 6"/WEED CONTROL  
SEEDING CLASS 4  
TOPSOIL, 6"/WEED CONTROL  
SEEDING CLASS 4B (MOD)  
TOPSOIL, 6"/WEED CONTROL



INTERSEEDING, CLASS 4  
SODDING, SALT TOLERANT  
TOPSOIL, 24" (MEDIAN ONLY)/WEED CONTROL  
TOPSOIL 6" (EXCEPT MEDIAN)/WEED CONTROL  
EROSION CONTROL BLANKET  
SELECTIVE MOWING STAKE WITH  
WETLAND OR PRAIRIE PLANT SIGN



W2-2L  
W16-8P

RAISED REFLECTIVE PAVEMENT MARKERS  
(TYPICAL) SEE NOTES.

R2-1  
SL45

US 45 (LAGRANGE RD)

BIT.



STA 74+22, RT  
STA 86+43, RT  
R1-1 (36" X 36")  
1-METAL POST TYPE B



175th St  
STA 74+58, LT  
W2-2L (36" X 36")  
W16-8P (30" X 9")  
1-METAL POST TYPE B



STA 78+84, LT  
STA 78+98, RT  
R2-1 (30" X 36")  
1-METAL POST TYPE B

POLYUREA PAVEMENT MARKING  
TYPE I - LINE 4" (WHITE)  
10' DASH, 30' SKIP (TYPICAL)

R2-1  
SL45

17 1st St

STA 81+83, RT  
D3-1 (42" X 18")  
1-METAL POST TYPE B



STA 84+65, RT  
R3-5R (30" X 36")  
1-METAL POST TYPE B

D3-1  
171ST ST

PAINT PAVEMENT MARKING  
LINE 4" (YELLOW) TYPICAL

POLYUREA PAVEMENT MARKING TYPE I -  
LETTERS & SYMBOLS (WHITE) TYPICAL  
SEE DISTRICT 1 STD TC-13 FOR DETAILS

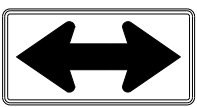
PAINT PAVEMENT MARKING -  
LINE 4" (YELLOW) TYPICAL

**PAVEMENT MARKING NOTES:**

1. FOR PCC PAVEMENT:  
POLYUREA PAVEMENT MARKING TYPE I SHALL BE USED FOR FINAL PAVEMENT MARKINGS OF THE SIZE AND COLOR SPECIFIED.
2. FOR HOT-MIX ASPHALT PAVEMENT:  
THERMOPLASTIC PAVEMENT MARKING SHALL BE USED FOR FINAL PAVEMENT MARKINGS OF THE SIZE AND COLOR SPECIFIED.
3. FOR RAISED REFLECTIVE PAVEMENT MARKERS PLACEMENT,  
SPACING AND COLOR SEE DISTRICT 1 STANDARD TC-11.



STA 87+20, LT  
M3-3 (24" X 12")  
M1-4 (24" X 24")  
1-METAL POST TYPE B



STA 89+29, LT  
W1-7 (48" X 24")  
1-METAL POST TYPE B

17 1st St

STA 94+85, LT  
D3-1 (42" X 18")  
1-METAL POST TYPE B



SEE ABOVE  
MATCH LINE STA. 87+00.00

POLYUREA PAVEMENT MARKING TYPE I  
-LINE 6" (DOTTED WHITE)  
2' DASHED, 6' SKIP (TYPICAL)

POLYUREA PAVEMENT MARKING  
TYPE I - LINE 6" (WHITE)

POLYUREA PAVEMENT MARKING TYPE I  
- LETTERS & SYMBOLS (WHITE) TYPICAL  
SEE DISTRICT 1 STD TC-13 FOR DETAILS

POLYUREA PAVEMENT MARKING TYPE I  
-LINE 6" (DOTTED WHITE)  
2' DASHED, 6' SKIP (TYPICAL)

EXISTING GROUND MOUNT  
SIGN TO REMAIN (METRA  
PARKING DIRECTIONS)

M3-3  
M1-4

W1-7

R3-8U

R4-7

90+00

R4-7

R3-8LL

95+00

100+00

POLYUREA PAVEMENT  
MARKING TYPE I -  
LINE 6" (WHITE)  
215.0'

NOTE:  
FOR 171ST ST. PAVEMENT  
MARKING SEE LANDSCAPING,  
PAVEMENT MARKING AND  
SIGNING PLAN LA-08.

PRISMATIC CURB REFLECTORS  
(SEE STANDARD 782001 FOR DETAILS)

POLYUREA PAVEMENT MARKING TYPE I  
- LINE 24" (WHITE) STOP BAR (TYPICAL)

STA 88+37, MEDIAN (1)  
R3-8U (24" X 30")  
METAL POST TYPE B

STA 88+37, MEDIAN (1)  
STA 89+90, MEDIAN (2)  
R4-7 (24" X 30")  
(1) SAME POST (R4-7 & R3-8U MOUNTED BK-BK)  
(2) SAME POST (R4-7 & R3-8LL MOUNTED BK-BK)

STA 89+90, MEDIAN (2)  
R3-8LL (36" X 36")  
1-METAL POST TYPE B

STA 90+19, RT  
M3-1 (24" X 12")  
M1-4 (24" X 24")  
1-METAL POST TYPE B

STA 91+50, RT  
R2-1 (30" X 36")  
1-METAL POST TYPE B

RAISED REFLECTIVE PAVEMENT MARKERS  
(TYPICAL) SEE NOTES.

FILE NAME =  
D160F05-SHT-LNDSCP-PMK03.dgn  
SHT.DOUBLE PLAN

USER NAME = Frank.Stallone  
PLOT SCALE = 100.000091' / in.  
PLOT DATE = 3/13/2013

DESIGNED - BFH  
DRAWN - BFH  
CHECKED - MJT  
DATE - 03/13/13

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LANDSCAPING, PAVEMENT MARKING AND SIGNING PLAN  
US 45 (LAGRANGE ROAD)

SCALE: 1"=50' SHEET 3 OF 6 SHEETS STA. 72+00.00 TO STA. 102+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	417
LA-03		CONTRACT NO. 60F05		
ILLINOIS FED. AID PROJECT				

MATCH LINE STA. 87+00.00  
SEE BELOW

MATCH LINE STA. 102+00.00  
SEE DRAWING LA-04

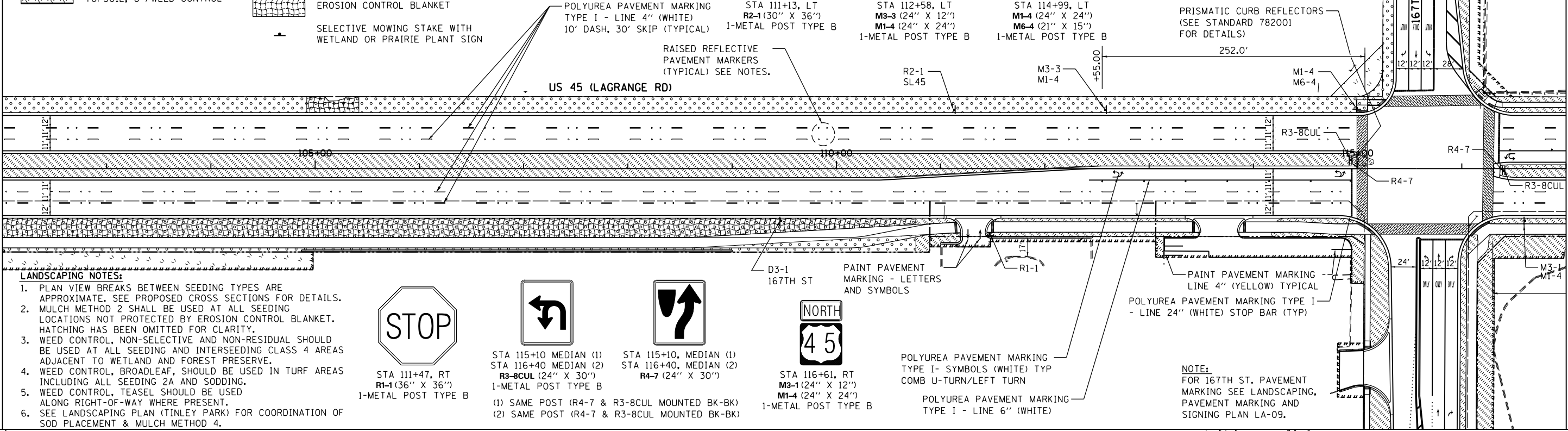
SEE DRAWING LA-03  
MATCH LINE STA. 102+00.00

SEE ABOVE  
MATCH LINE STA. 117+00.00

**LANDSCAPING LEGEND**

	SEEDING CLASS 2A TOPSOIL, 6"/WEED CONTROL
	SEEDING CLASS 4 TOPSOIL, 6"/WEED CONTROL
	SEEDING CLASS 4B (MOD) TOPSOIL, 6"/WEED CONTROL

	INTERSEEDING, CLASS 4
	SODDING, SALT TOLERANT TOPSOIL, 24" (MEDIAN ONLY)/WEED CONTROL TOPSOIL 6" (EXCEPT MEDIAN)/WEED CONTROL
	EROSION CONTROL BLANKET
	SELECTIVE MOWING STAKE WITH WETLAND OR PRAIRIE PLANT SIGN



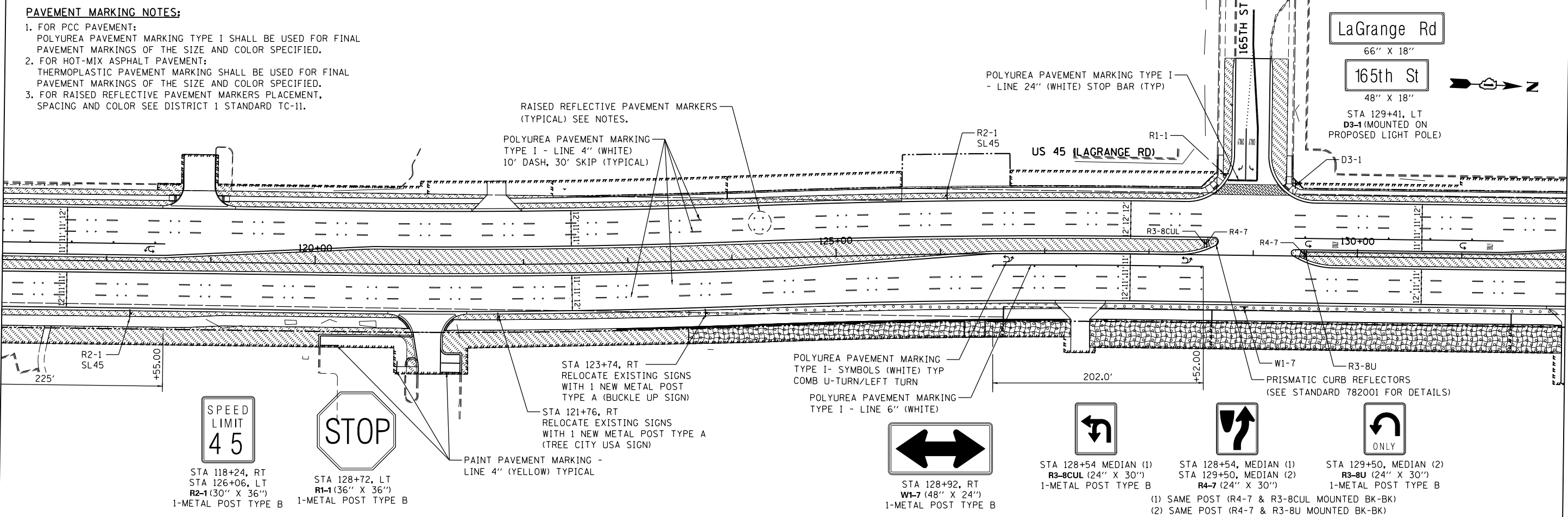
MATCH LINE STA. 117+00.00  
SEE BELOW

**LANDSCAPING NOTES:**

1. PLAN VIEW BREAKS BETWEEN SEEDING TYPES ARE APPROXIMATE. SEE PROPOSED CROSS SECTIONS FOR DETAILS.
2. MULCH METHOD 2 SHALL BE USED AT ALL SEEDING LOCATIONS NOT PROTECTED BY EROSION CONTROL BLANKET. HATCHING HAS BEEN OMITTED FOR CLARITY.
3. WEED CONTROL, NON-SELECTIVE AND NON-RESIDUAL SHOULD BE USED AT ALL SEEDING AND INTERSEEDING CLASS 4 AREAS ADJACENT TO WETLAND AND FOREST PRESERVE.
4. WEED CONTROL, BROADLEAF, SHOULD BE USED IN TURF AREAS INCLUDING ALL SEEDING 2A AND SODDING.
5. WEED CONTROL, TEASEL SHOULD BE USED ALONG RIGHT-OF-WAY WHERE PRESENT.
6. SEE LANDSCAPING PLAN (TINLEY PARK) FOR COORDINATION OF SOD PLACEMENT & MULCH METHOD 4.

**PAVEMENT MARKING NOTES:**

1. FOR PCC PAVEMENT:  
POLYUREA PAVEMENT MARKING TYPE I SHALL BE USED FOR FINAL PAVEMENT MARKINGS OF THE SIZE AND COLOR SPECIFIED.
2. FOR HOT-MIX ASPHALT PAVEMENT:  
THERMOPLASTIC PAVEMENT MARKING SHALL BE USED FOR FINAL PAVEMENT MARKINGS OF THE SIZE AND COLOR SPECIFIED.
3. FOR RAISED REFLECTIVE PAVEMENT MARKERS PLACEMENT,  
SPACING AND COLOR SEE DISTRICT 1 STANDARD TC-11.



MATCH LINE STA. 132+00.00  
SEE DRAWING LA-05

FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - BFH	REVISED -
D:\60F05-SHT-LNDSCP-PMK04.dgn		DRAWN - BFH	REVISED -
		CHECKED - MJT	REVISED -
SHT.DOUBLE PLAN		DATE - 03/13/13	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING, PAVEMENT MARKING AND SIGNING PLAN]  
US 45 (LAGRANGE ROAD)**

SCALE: 1"=50' SHEET 4 OF 6 SHEETS STA. 102+00.00 TO STA. 132+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	418
LA-04		CONTRACT NO. 60F05		
		ILLINOIS FED. AID PROJECT		

SEE ABOVE  
MATCH LINE STA. 147+00.00

SEE DRAWING LA-04  
MATCH LINE STA. 132+00.00

**PAVEMENT MARKING NOTES:**

- FOR PCC PAVEMENT:  
POLYUREA PAVEMENT MARKING TYPE I SHALL BE USED FOR FINAL PAVEMENT MARKINGS OF THE SIZE AND COLOR SPECIFIED.
- FOR HOT-MIX ASPHALT PAVEMENT:  
THERMOPLASTIC PAVEMENT MARKING SHALL BE USED FOR FINAL PAVEMENT MARKINGS OF THE SIZE AND COLOR SPECIFIED.
- FOR RAISED REFLECTIVE PAVEMENT MARKERS PLACEMENT,  
SPACING AND COLOR SEE DISTRICT 1 STANDARD TC-11.

POLYUREA PAVEMENT MARKING TYPE I  
- LINE 6" (DOTTED WHITE)  
2' DASH, 6' SKIP (TYPICAL)

POLYUREA PAVEMENT MARKING TYPE I  
- SYMBOLS (WHITE) TYPICAL  
COMB U-TURN/LEFT TURN ARROWS

POLYUREA PAVEMENT MARKING  
TYPE I - LINE 6" (WHITE)

- (1) SAME POST (R4-7 & R3-8CUL MOUNTED BK-BK)  
(2) SAME POST (R4-7 & R3-8CUL MOUNTED BK-BK)

STA 153+82, MEDIAN (1)  
STA 154+95, MEDIAN (2)  
R4-7 (24" X 30")

STA 153+82, MEDIAN (1)  
STA 154+95, MEDIAN (2)  
R3-8CUL (24" X 30")  
1-METAL POST TYPE B

PRISMATIC CURB REFLECTORS  
(SEE STANDARD 782001  
FOR DETAILS)

POLYUREA PAVEMENT MARKING TYPE I  
- LINE 24" (WHITE) STOP BAR (TYPICAL)



STA 153+91, LT  
STA 154+75, RT  
R1-1 (36" X 36")  
1-METAL POST TYPE B

POLYUREA PAVEMENT MARKING  
TYPE I - LINE 4" (WHITE)  
10' DASH, 30' SKIP (TYPICAL)

STA 159+94, RT  
M2-1 (30" X 21")  
M1-4 (36" X 36")  
D3-2 (36" X 9")  
1-METAL POST TYPE B

RAISED REFLECTIVE PAVEMENT MARKERS  
(TYPICAL) SEE NOTES.

POLYUREA PAVEMENT MARKING  
TYPE I - LINE 6" (WHITE)

POLYUREA PAVEMENT MARKING TYPE I  
- SYMBOLS (WHITE) TYPICAL  
COMB U-TURN/LEFT TURN

POLYUREA PAVEMENT MARKING TYPE I -  
LETTERS & SYMBOLS (WHITE) TYPICAL  
SEE DISTRICT 1 STD TC-13 FOR DETAILS

POLYUREA PAVEMENT MARKING  
TYPE I - LINE 6" (WHITE)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LANDSCAPING, PAVEMENT MARKING AND SIGNING PLAN  
US 45 (LAGRANGE ROAD)

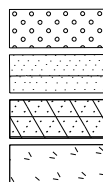
SCALE: 1"=50' SHEET 5 OF 6 SHEETS STA. 132+00.00 TO STA. 162+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	419
LA-05		CONTRACT NO. 60F05		
ILLINOIS FED. AID PROJECT				

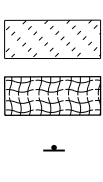
**LANDSCAPING NOTES:**

- PLAN VIEW BREAKS BETWEEN SEEDING TYPES ARE APPROXIMATE. SEE PROPOSED CROSS SECTIONS FOR DETAILS.
- MULCH METHOD 2 SHALL BE USED AT ALL SEEDING LOCATIONS NOT PROTECTED BY EROSION CONTROL BLANKET. HATCHING HAS BEEN OMITTED FOR CLARITY.
- WEED CONTROL, NON-SELECTIVE AND NON-RESIDUAL SHOULD BE USED AT ALL SEEDING AND INTERSEEDING CLASS 4 AREAS ADJACENT TO WETLAND AND FOREST PRESERVE.
- WEED CONTROL, BROADLEAF, SHOULD BE USED IN TURF AREAS INCLUDING ALL SEEDING 2A AND SODDING.
- WEED CONTROL, TEASEL SHOULD BE USED ALONG RIGHT-OF-WAY WHERE PRESENT.
- SEE LANDSCAPING PLAN (TINLEY PARK) FOR COORDINATION OF SOD PLACEMENT & MULCH METHOD 4.

**LANDSCAPING LEGEND**



SEEDING CLASS 2A  
TOPSOIL, 6"/WEED CONTROL  
SEEDING CLASS 4  
TOPSOIL, 6"/WEED CONTROL  
SEEDING CLASS 4B (MOD)  
TOPSOIL, 6"/WEED CONTROL  
INTERSEEDING, CLASS 4



SODDING, SALT TOLERANT  
TOPSOIL, 24" (MEDIAN ONLY)/WEED CONTROL  
TOPSOIL 6" (EXCEPT MEDIAN)/WEED CONTROL  
EROSION CONTROL BLANKET  
SELECTIVE MOWING STAKE WITH  
WETLAND OR PRAIRIE PLANT SIGN

POLYUREA PAVEMENT MARKING  
TYPE I - LINE 6" (WHITE)

POLYUREA PAVEMENT MARKING TYPE I -  
LETTERS & SYMBOLS (WHITE) TYPICAL  
SEE DISTRICT 1 STD TC-13 FOR DETAILS

PRISMATIC CURB REFLECTORS  
(SEE STANDARD 782001 FOR DETAILS)

SPEED  
LIMIT  
45

SOUTH  
45

STA 138+95, LT  
STA 143+50, RT  
R2-1 (30" X 36")  
1-METAL POST TYPE B

STA 139+78, LT  
M3-3 (24" X 12")  
M1-4 (24" X 24")  
1-METAL POST TYPE B

POLYUREA PAVEMENT MARKING TYPE I  
- LINE 6" (DOTTED WHITE)  
2' DASH, 6' SKIP (TYPICAL)



STA 145+86, RT  
STA 146+27, LT  
R1-1 (36" X 36")  
1-METAL POST TYPE B

POLYUREA PAVEMENT MARKING TYPE I  
- LINE 24" (WHITE) STOP BAR (TYPICAL)



STA 139+74, MEDIAN (1)  
STA 141+40, MEDIAN (2)  
R4-7 (24" X 30")



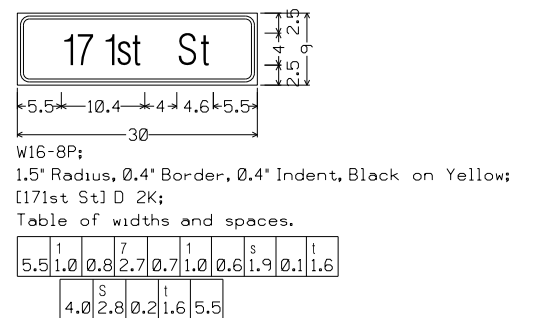
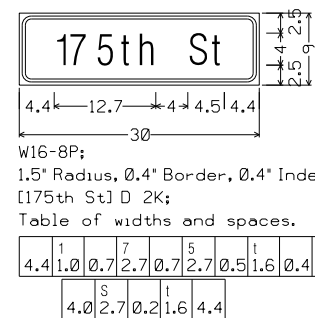
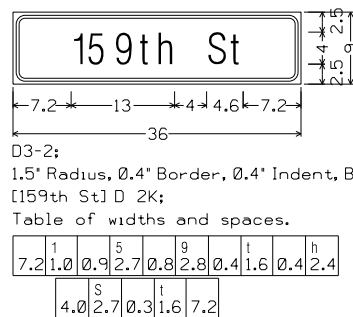
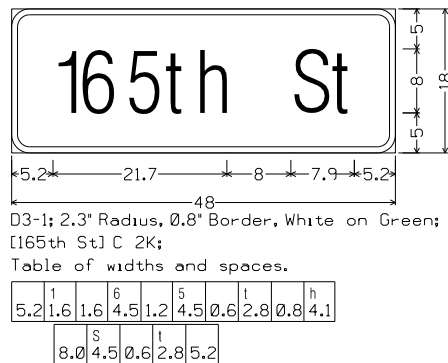
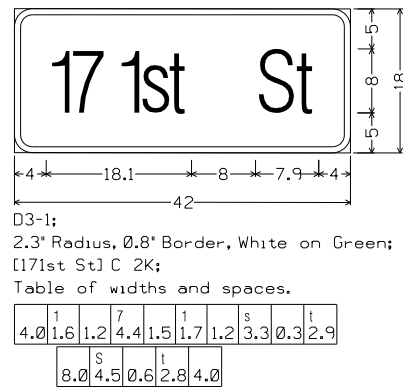
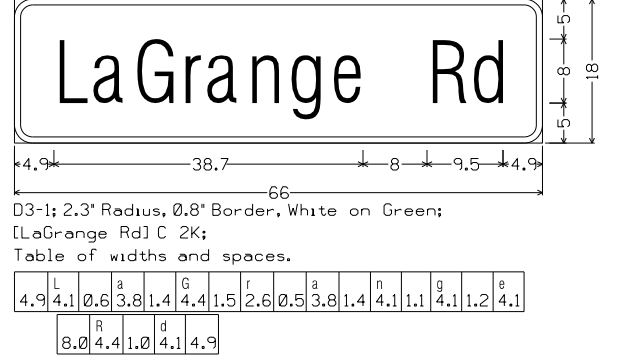
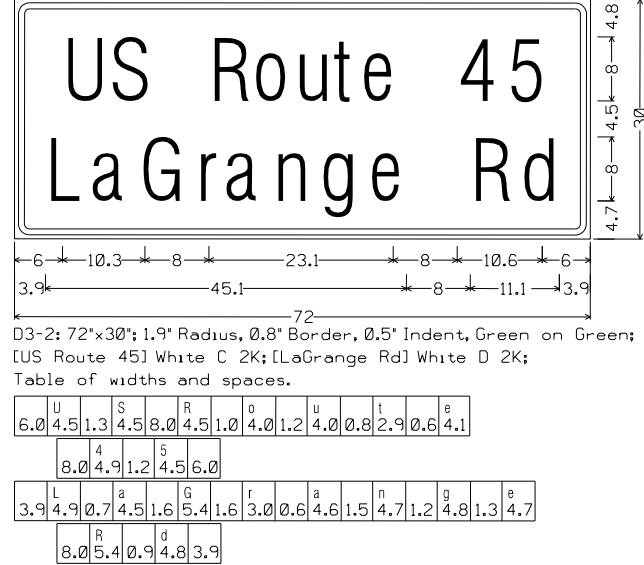
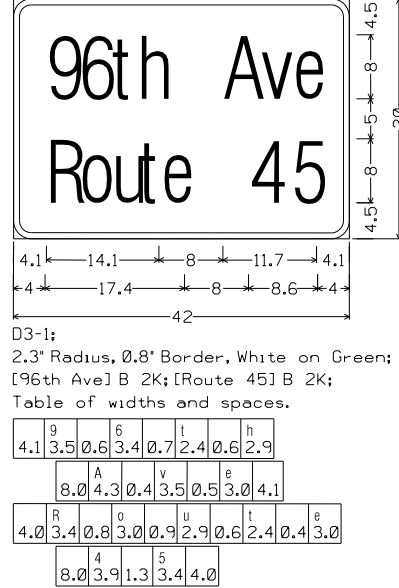
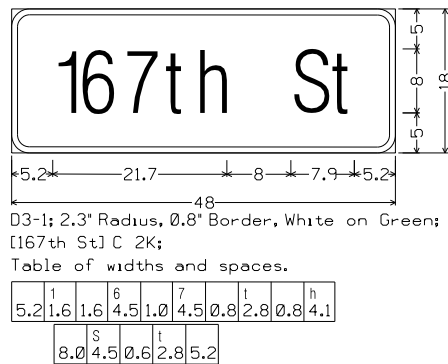
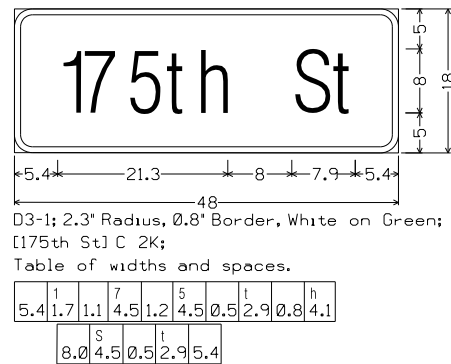
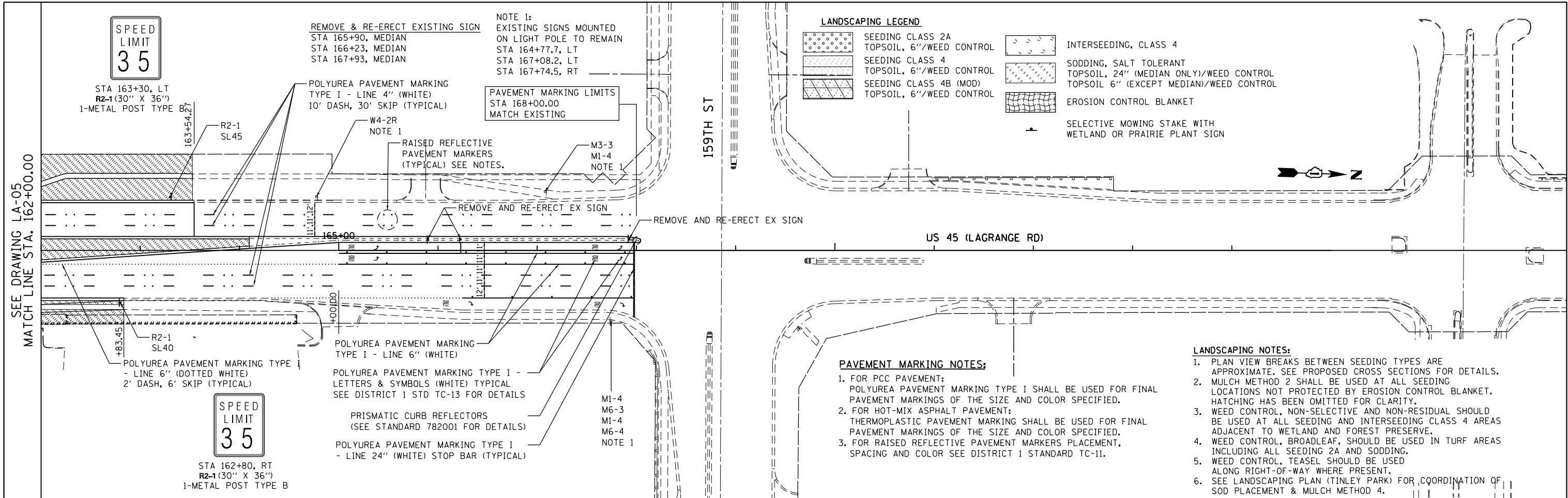
STA 139+74 MEDIAN (1)  
R3-8CUL (24" X 30")  
1-METAL POST TYPE B  
(1) SAME POST (R4-7 & R3-8CUL MOUNTED BK-BK)  
(2) SAME POST (R4-7 & R3-8CUL MOUNTED BK-BK)



STA 141+40 MEDIAN (2)  
R3-8ULL (36" X 36")  
1-METAL POST TYPE B  
(1) SAME POST (R4-7 & R3-8CUL MOUNTED BK-BK)  
(2) SAME POST (R4-7 & R3-8ULL MOUNTED BK-BK)

NORTH  
45

STA 141+68, RT  
M3-1 (24" X 12")  
M1-4 (24" X 24")  
1-METAL POST TYPE B



FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - BFH	REVISED -
D:\60F05-SHT-LNDSCP-PMK06.dgn		DRAWN - BFH	REVISED -
	PLOT SCALE = 100.000091' / in.	CHECKED - MJT	REVISED -
SHT-DOUBLE PLAN	PLOT DATE = 3/13/2013	DATE - 03/13/13	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LANDSCAPING, PAVEMENT MARKING AND SIGNING PLAN  
US 45 (LAGRANGE ROAD)

SCALE: 1"=50' SHEET 6 OF 6 SHEETS STA. 162+00.00 TO STA. END

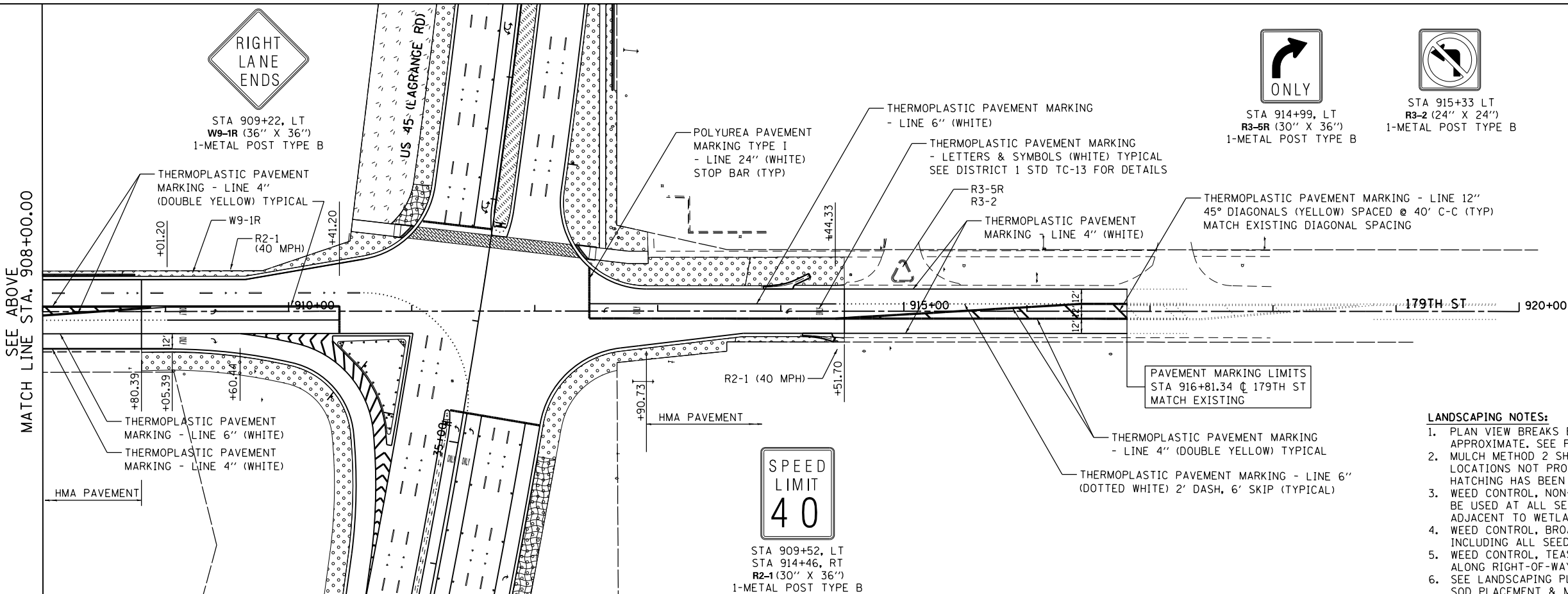
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	420
LA-06		CONTRACT NO. 60F05		
		ILLINOIS FED. AID PROJECT		

#### LANDSCAPING LEGEND

	SEEDING CLASS 2A
	TOPSOIL, 6" / WEED CONTROL
	SEEDING CLASS 4
	TOPSOIL, 6" / WEED CONTROL
	SEEDING CLASS 4B (MOD)
	TOPSOIL, 6" / WEED CONTROL
	INTERSEEDING, CLASS 4
	SODDING, SALT TOLERANT
	TOPSOIL, 24" (MEDIAN ONLY) / WEED CONTROL
	TOPSOIL 6" (EXCEPT MEDIAN) / WEED CONTROL
	EROSION CONTROL BLANKET
	SELECTIVE MOWING STAKE WITH WETLAND OR PRAIRIE PLANT SIGN

#### PAVEMENT MARKING NOTES:

- FOR PCC PAVEMENT:  
POLYUREA PAVEMENT MARKING TYPE I SHALL BE USED FOR FINAL PAVEMENT MARKINGS OF THE SIZE AND COLOR SPECIFIED.
- FOR HOT-MIX ASPHALT PAVEMENT:  
THERMOPLASTIC PAVEMENT MARKING SHALL BE USED FOR FINAL PAVEMENT MARKINGS OF THE SIZE AND COLOR SPECIFIED.
- ALL PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS ALONG 179TH ST SHALL BE IN ACCORDANCE WITH COOK COUNTY HIGHWAY DEPARTMENT (CCHD) STANDARDS. SEE DRAWING NOS. CCHD-02 AND CCHD-03



#### LANDSCAPING NOTES:

- PLAN VIEW BREAKS BETWEEN SEEDING TYPES ARE APPROXIMATE. SEE PROPOSED CROSS SECTIONS FOR DETAILS.
- MULCH METHOD 2 SHALL BE USED AT ALL SEEDING LOCATIONS NOT PROTECTED BY EROSION CONTROL BLANKET. HATCHING HAS BEEN OMITTED FOR CLARITY.
- WEED CONTROL, NON-SELECTIVE AND NON-RESIDUAL SHOULD BE USED AT ALL SEEDING AND INTERSEEDING CLASS 4 AREAS ADJACENT TO WETLAND AND FOREST PRESERVE.
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- WEED CONTROL, TEASEL SHOULD BE USED ALONG RIGHT-OF-WAY WHERE PRESENT.
- SEE LANDSCAPING PLAN (TINLEY PARK) FOR COORDINATION OF SOD PLACEMENT & MULCH METHOD 4.

FILE NAME =  
D160F05-SHT-LNDSCP-PMK07.dgn  
SHT.DOUBLE PLAN

USER NAME = Frank.Stallone  
PLOT SCALE = 100.000091' / in.  
PLOT DATE = 3/13/2013

DESIGNED - BFH  
DRAWN - BFH  
CHECKED - MJT  
DATE - 03/13/13

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LANDSCAPING, PAVEMENT MARKING AND SIGNING PLAN  
179TH STREET

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	421
LA-07		CONTRACT NO. 60F05		
ILLINOIS FED. AID PROJECT				

MATCH LINE STA. 908+00.00  
SEE BELOW

PAVEMENT MARKING NOTES:

1. FOR PCC PAVEMENT:  
POLYUREA PAVEMENT MARKING TYPE I SHALL BE USED FOR FINAL PAVEMENT MARKINGS OF THE SIZE AND COLOR SPECIFIED.
2. FOR HOT-MIX ASPHALT PAVEMENT:  
THERMOPLASTIC PAVEMENT MARKING SHALL BE USED FOR FINAL PAVEMENT MARKINGS OF THE SIZE AND COLOR SPECIFIED.
3. ALL PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS ALONG 171ST ST SHALL BE IN ACCORDANCE WITH COOK COUNTY HIGHWAY DEPARTMENT (CCHD) STANDARDS.  
SEE DRAWING NOS. CCHD-02 AND CCHD-03

W1-7, SEE US 45  
PAVEMENT  
MARKING PLANS

US 45 (LAGRANGE RD)

SPEED  
LIMIT  
45

STOP

STA 452+17, RT  
R2-1 (30" X 36")  
1-METAL POST TYPE B

STA 453+08, RT  
R1-1 (30" X 30")  
1-METAL POST TYPE B

45

M1-4  
24X24

M6-4  
21X15

M1-6  
24X24

M4-6  
24X12

STA 450+89, LT  
1-METAL POST TYPE B

STA 454+96, MEDIAN  
R3-8L (24" X 30")  
1-METAL POST TYPE B

STA 455+50, LT  
R3-8s (48" X 30")  
1-METAL POST TYPE B



I-7 (24" X 24")

I-M (24" X 8")

M6-1Li (24" X 15")

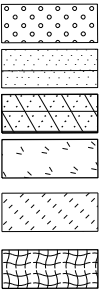


STA 453+41, LT  
RELOCATE EXISTING SIGNS  
1-METAL POST TYPE B

LANDSCAPING NOTES:

1. PLAN VIEW BREAKS BETWEEN SEEDING TYPES ARE APPROXIMATE. SEE PROPOSED CROSS SECTIONS FOR DETAILS.
2. MULCH METHOD 2 SHALL BE USED AT ALL SEEDING LOCATIONS NOT PROTECTED BY EROSION CONTROL BLANKET. HATCHING HAS BEEN OMITTED FOR CLARITY.
3. WEED CONTROL, NON-SELECTIVE AND NON-RESIDUAL SHOULD BE USED AT ALL SEEDING AND INTERSEEDING CLASS 4 AREAS ADJACENT TO WETLAND AND FOREST PRESERVE.
4. WEED CONTROL, BROADLEAF, SHOULD BE USED IN TURF AREAS INCLUDING ALL SEEDING 2A AND SODDING.
5. WEED CONTROL, TEASEL SHOULD BE USED ALONG RIGHT-OF-WAY WHERE PRESENT.
6. SEE LANDSCAPING PLAN (TINLEY PARK) FOR COORDINATION OF SOD PLACEMENT & MULCH METHOD 4.

LANDSCAPING LEGEND



SEEDING CLASS 2A  
TOPSOIL, 6"/WEED CONTROL

SEEDING CLASS 4  
TOPSOIL, 6"/WEED CONTROL

SEEDING CLASS 4B (MOD)  
TOPSOIL, 6"/WEED CONTROL

INTERSEEDING, CLASS 4

SODDING, SALT TOLERANT  
TOPSOIL, 24" (MEDIAN ONLY)/WEED CONTROL  
TOPSOIL 6" (EXCEPT MEDIAN)/WEED CONTROL

EROSION CONTROL BLANKET

SELECTIVE MOWING STAKE WITH  
WETLAND OR PRAIRIE PLANT SIGN

W1-7, SEE US 45  
PAVEMENT  
MARKING PLANS

US 45 (LAGRANGE RD)

HMA PAVEMENT

POLYUREA PAVEMENT MARKING TYPE I  
- LINE 24" (WHITE) STOP BAR (TYP)

THERMOPLASTIC PAVEMENT MARKING  
- LINE 6" (WHITE)

THERMOPLASTIC PAVEMENT MARKING  
- LETTERS & SYMBOLS (WHITE) TYPICAL  
SEE DISTRICT 1 STD TC-13 FOR DETAILS

THERMOPLASTIC PAVEMENT MARKING  
- LINE 4" (DOUBLE YELLOW) TYPICAL

PAVEMENT MARKING LIMITS  
STA 477+30.81 @ 175TH ST  
MATCH EXISTING

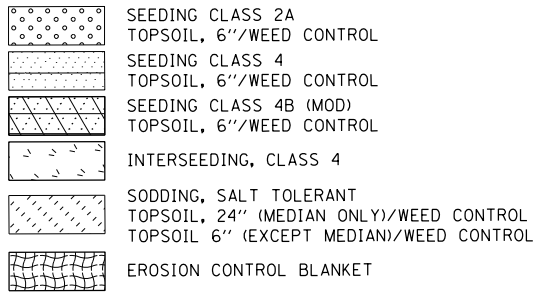
RAISED REFLECTIVE PAVEMENT MARKERS  
(TYPICAL) SEE NOTES.

THERMOPLASTIC PAVEMENT MARKING - LINE 4"  
10' DASH (WHITE), 30' SKIP (TYPICAL)

SPEED  
LIMIT  
45

STA 476+61, RT  
R2-1 (30" X 36")  
1-METAL POST TYPE B

# LANDSCAPING LEGEND



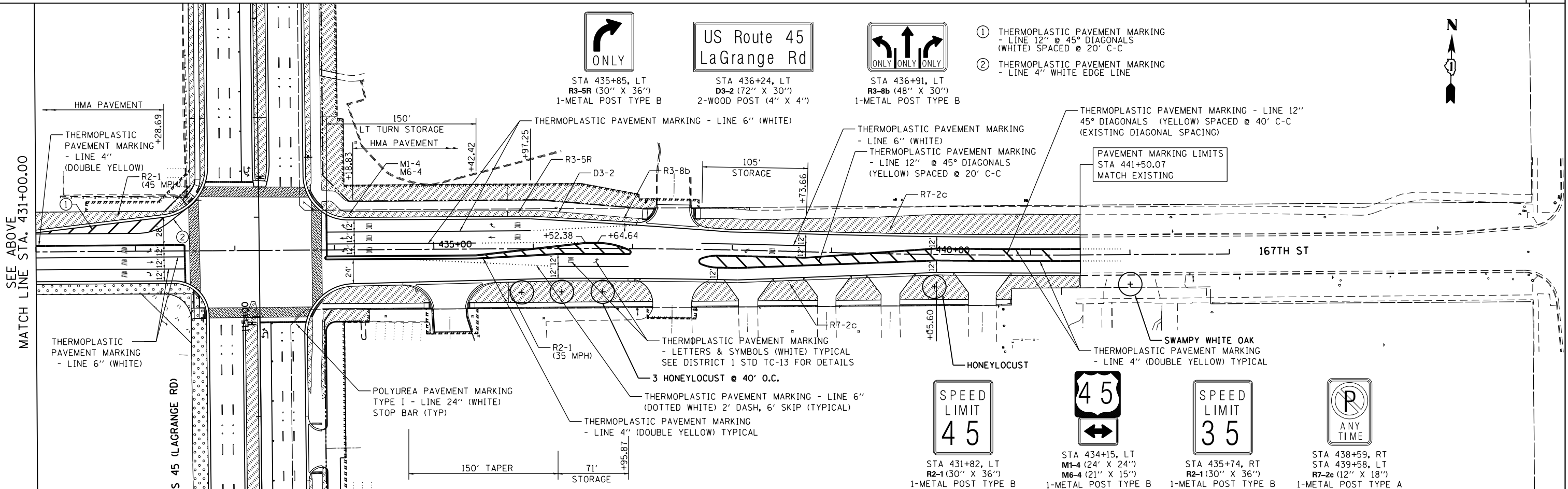
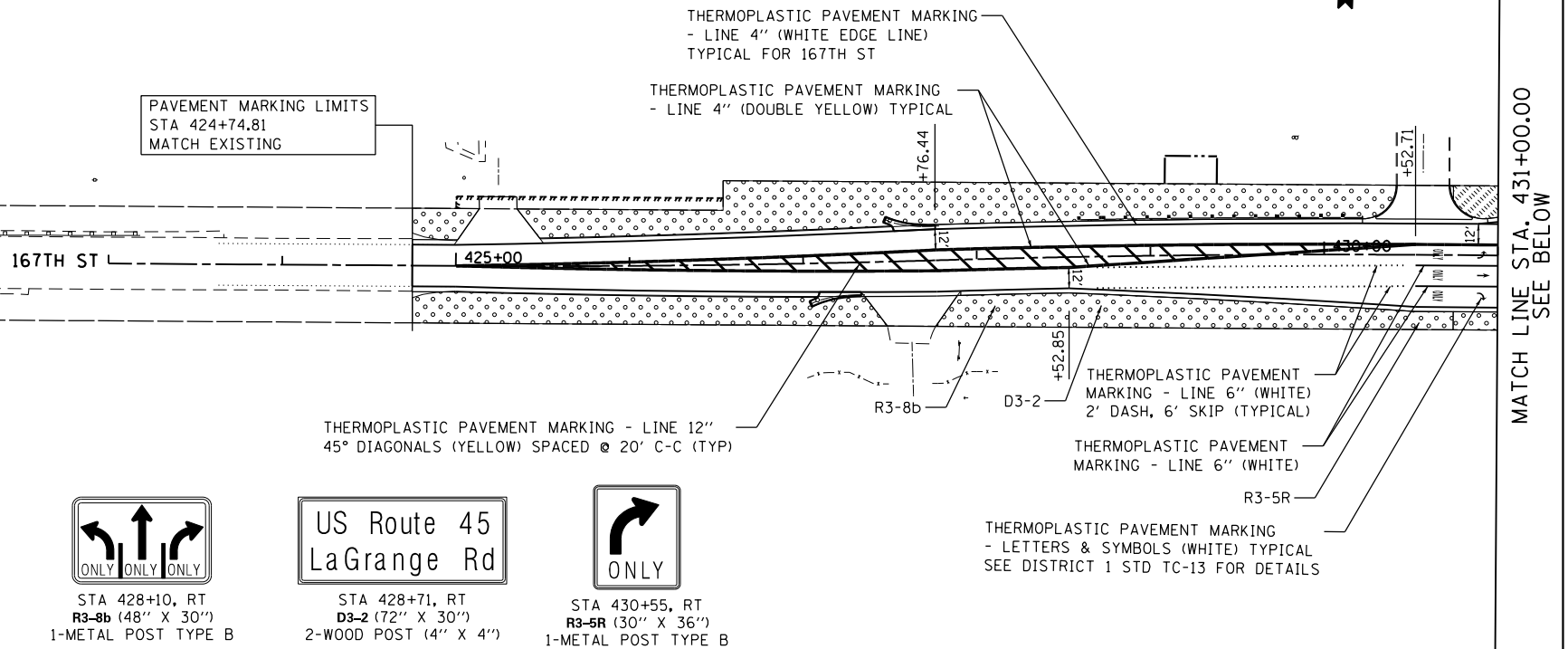
SELECTIVE MOWING STAKE WITH  
WETLAND OR PRAIRIE PLANT SIGN

## LANDSCAPING NOTES:

1. PLAN VIEW BREAKS BETWEEN SEEDING TYPES ARE APPROXIMATE. SEE PROPOSED CROSS SECTIONS FOR DETAILS.
2. MULCH METHOD 2 SHALL BE USED AT ALL SEEDING LOCATIONS NOT PROTECTED BY EROSION CONTROL BLANKET. HATCHING HAS BEEN OMITTED FOR CLARITY.
3. WEED CONTROL, NON-SELECTIVE AND NON-RESIDUAL SHOULD BE USED AT ALL SEEDING AND INTERSEEDING CLASS 4 AREAS ADJACENT TO WETLAND AND FOREST PRESERVE.
4. WEED CONTROL, BROADLEAF, SHOULD BE USED IN TURF AREAS INCLUDING ALL SEEDING 2A AND SODDING.
5. WEED CONTROL, TEASEL SHOULD BE USED ALONG RIGHT-OF-WAY WHERE PRESENT.
6. SEE LANDSCAPING PLAN (TINLEY PARK) FOR COORDINATION OF SOD PLACEMENT & MULCH METHOD 4.

## PAVEMENT MARKING NOTES:

1. FOR PCC PAVEMENT:  
POLYUREA PAVEMENT MARKING TYPE I SHALL BE USED FOR FINAL PAVEMENT MARKINGS OF THE SIZE AND COLOR SPECIFIED.
2. FOR HOT-MIX ASPHALT PAVEMENT:  
THERMOPLASTIC PAVEMENT MARKING SHALL BE USED FOR FINAL PAVEMENT MARKINGS OF THE SIZE AND COLOR SPECIFIED.
3. ALL PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS ALONG 167TH ST SHALL BE IN ACCORDANCE WITH COOK COUNTY HIGHWAY DEPARTMENT (CCHD) STANDARDS.  
SEE DRAWING NOS. CCHD-02 AND CCHD-03
4. THE PAVEMENT MARKINGS & SIGNING EAST 167TH ST SHALL BE APPROVED AND MAINTAINED BY THE VILLAGE.



FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - BFH	REVISED -
D160F05-SHT-LNDSCP-PMK09.dgn		DRAWN - BFH	REVISED -
		CHECKED - MJT	REVISED -
SHT-DOUBLE PLAN		DATE - 03/13/13	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

## LANDSCAPING, PAVEMENT MARKING AND SIGNING PLAN 167TH STREET

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	423
LA-09		CONTRACT NO. 60F05		
ILLINOIS FED. AID PROJECT				

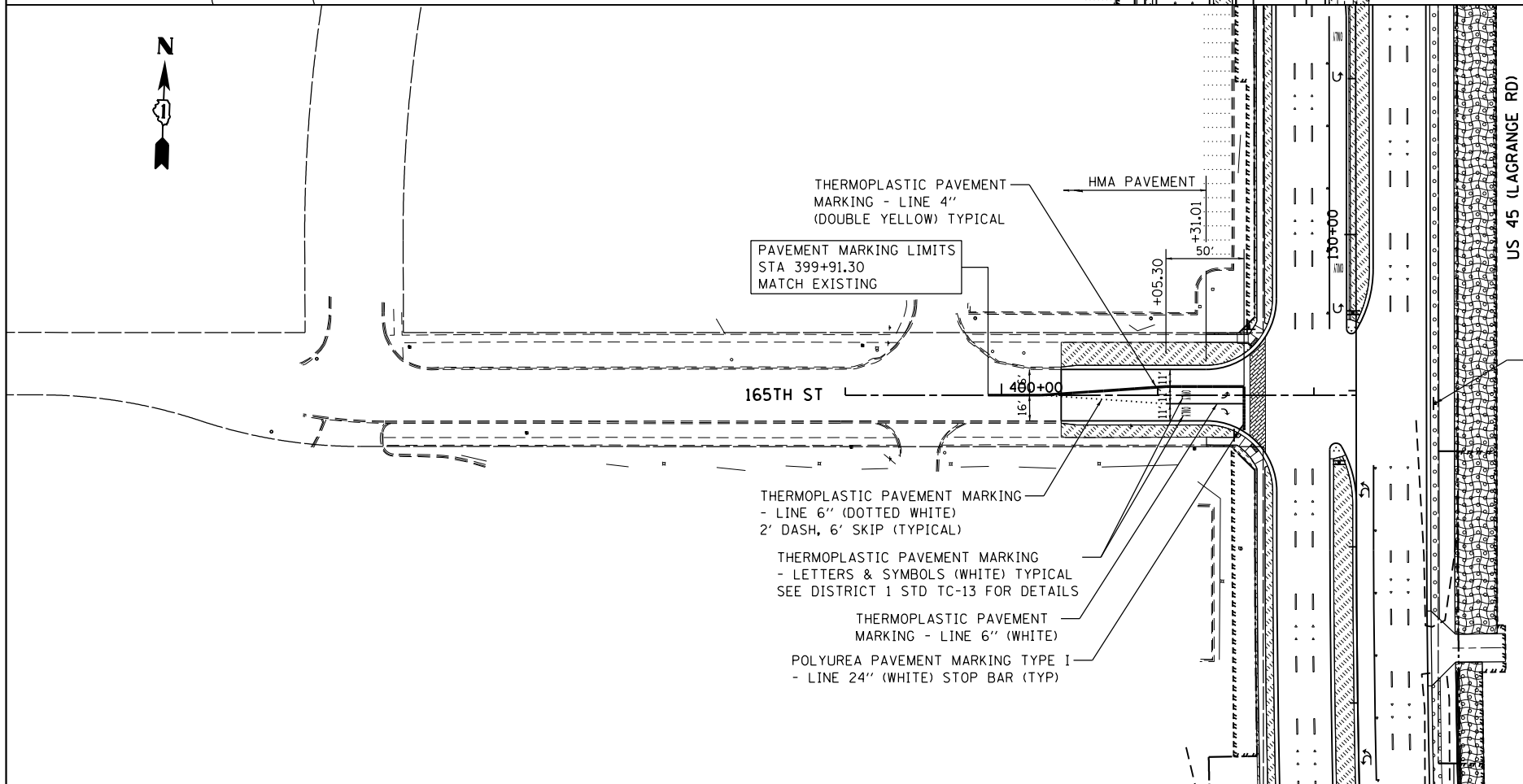
FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - BFH	REVISED -
D:\60F05-SHT-LNDSCP-PMK10.dgn		DRAWN - BFH	REVISED -
	PLOT SCALE = 100.000091' / in.	CHECKED - MJT	REVISED -
SHT.DOUBLE PLAN	PLOT DATE = 3/13/2013	DATE - 03/13/13	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LANDSCAPING, PAVEMENT MARKING AND SIGNING PLAN  
165TH STREET AND 163RD STREET

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	424
LA-10		CONTRACT NO. 60F05		
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING NOTES:

- FOR PCC PAVEMENT:  
POLYUREA PAVEMENT MARKING TYPE I SHALL BE USED FOR FINAL PAVEMENT MARKINGS OF THE SIZE AND COLOR SPECIFIED.
- FOR HOT-MIX ASPHALT PAVEMENT:  
THERMOPLASTIC PAVEMENT MARKING SHALL BE USED FOR FINAL PAVEMENT MARKINGS OF THE SIZE AND COLOR SPECIFIED.
- FOR RAISED REFLECTIVE PAVEMENT MARKERS PLACEMENT,  
SPACING AND COLOR SEE DISTRICT 1 STANDARD TC-11.

LANDSCAPING NOTES:

- PLAN VIEW BREAKS BETWEEN SEEDING TYPES ARE APPROXIMATE. SEE PROPOSED CROSS SECTIONS FOR DETAILS.
- MULCH METHOD 2 SHALL BE USED AT ALL SEEDING LOCATIONS NOT PROTECTED BY EROSION CONTROL BLANKET. HATCHING HAS BEEN OMITTED FOR CLARITY.
- WEED CONTROL, NON-SELECTIVE AND NON-RESIDUAL SHOULD BE USED AT ALL SEEDING AND INTERSEEDING CLASS 4 AREAS ADJACENT TO WETLAND AND FOREST PRESERVE.
- WEED CONTROL, BROADLEAF, SHOULD BE USED IN TURF AREAS INCLUDING ALL SEEDING 2A AND SODDING.
- WEED CONTROL, TEASEL SHOULD BE USED ALONG RIGHT-OF-WAY WHERE PRESENT.
- SEE LANDSCAPING PLAN (TINLEY PARK) FOR COORDINATION OF SOD PLACEMENT & MULCH METHOD 4.

LANDSCAPING LEGEND

- |  |   |
|--|---|
|  | SEEDING CLASS 2A<br>TOPSOIL, 6"/WEED CONTROL                      |
|  | SEEDING CLASS 4<br>TOPSOIL, 6"/WEED CONTROL                       |
|  | SEEDING CLASS 4B (MOD)<br>TOPSOIL, 6"/WEED CONTROL                |
|  | INTERSEEDING, CLASS 4   |
|  | SODDING, SALT TOLERANT<br>TOPSOIL, 24" (MEDIAN ONLY)/WEED CONTROL |
|  | TOPSOIL 6" (EXCEPT MEDIAN)/WEED CONTROL                           |
|  | EROSION CONTROL BLANKET   |
|  | SELECTIVE MOWING STAKE WITH<br>WETLAND OR PRAIRIE PLANT SIGN      |

PLANT SCHEDULE						
SHADE TREES						
CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
GD	1	Gymnocladus dioica	Kentucky Coffee Tree	2.5" cal.	B&B	matching heads
QB	5	Quercus bicolor	Swamp White Oak	2.5" cal.	B&B	matching heads
QI	6	Quercus imbricaria	Shingle Oak	2.5" cal.	B&B	matching heads
ORNAMENTAL TREES						
CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
PV	15	Prunus virginiana 'Canada Red'	Canada Red Cherry	2.5" cal.	B&B	matching heads
SHRUBS						
CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
RA	12	Rhus aromatica 'Gro Low'	Grow Low Sumac	24"W	pot	30" o.c.
PO	22	Physocarpus opulifolius 'Monlo'	Diable Ninebark	48"H	B&B	40" o.c.
PERENNIALS, ORNAMENTAL GRASSES, VINES AND OTHER						
CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
PALB	91	Pennisetum alopecuroides 'Little Bunny'	Little Bunny Fountain Grass	gal.	pot	18" o.c.
CJ	9	Clematis x 'Jackmanii'	Jackman Clematis	gal.	pot	per plan
PT	9	Parthenocissus tricuspidata	Boston Ivy	gal.	pot	per plan
SS	28	Schizachyrium scoparium	Little Bluestem	3 gal.	pot	30" o.c.

FILE NAME =  
7102\_land.dwg

USER NAME = jrossman

DESIGNED — AB

REVISED —

DRAWN — JR

REVISED —

PLOT SCALE = AS SHOWN

CHECKED — BM

REVISED —

PLOT DATE = 2/4/2013

DATE — 03/13/13

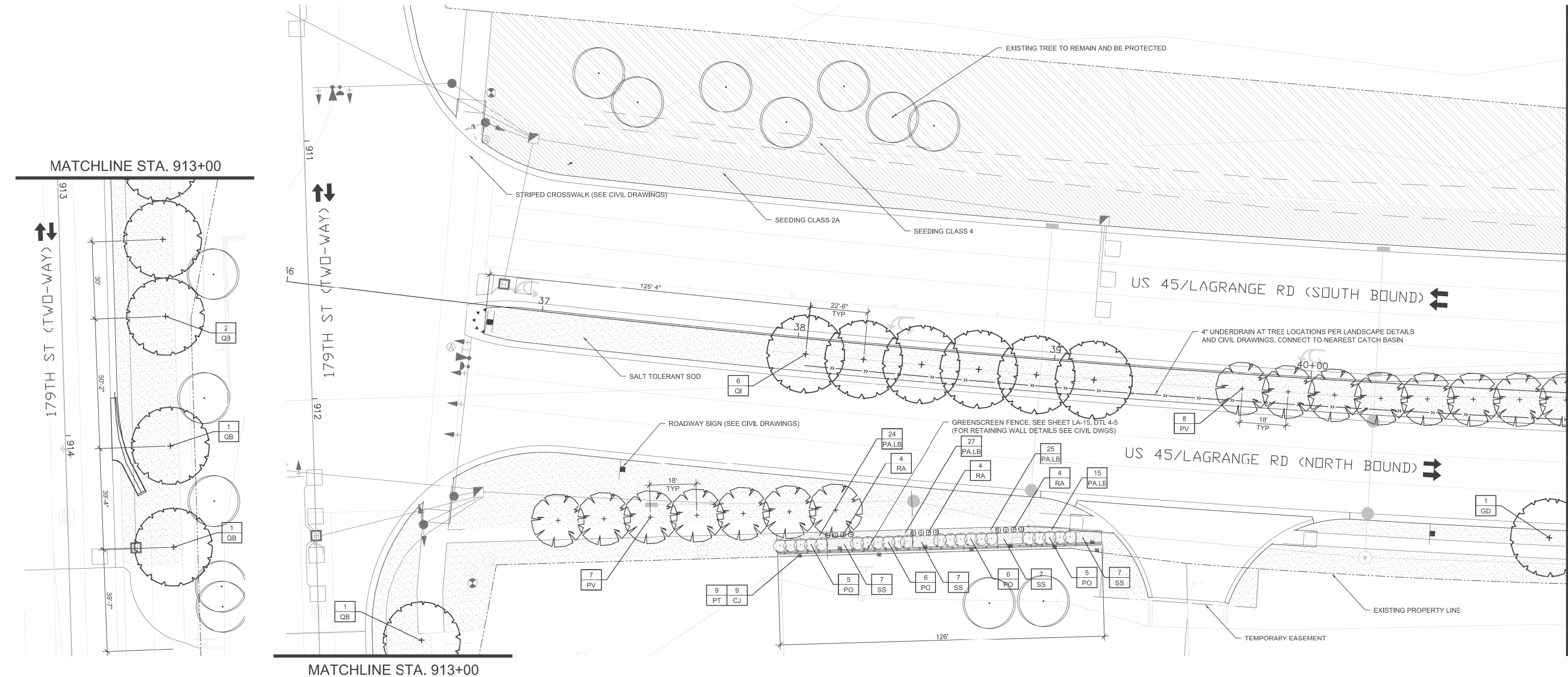
REVISED —

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN  
US 45 (LAGRANGE ROAD)

SCALE: AS SHOWN SHEET NO. 1 OF 15 SHEETS STA. BEGIN TO STA. 41+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	425
LA-01		CONTRACT NO. 60F05		
ILLINOIS		FED. AID PROJECT		



1 LANDSCAPE PLAN  
1"=20'-0"

NOTES:

- ALL PLANTINGS SHALL FOLLOW IDOT BUREAU OF DESIGN & ENVIRONMENT MANUAL - CHAPTER 59 - LANDSCAPE DESIGN AND EROSION CONTROL 59-7.09 PLANTING IN URBANIZED AREA FOR SIGHT DISTANCES.
- ALL AREAS TO BE LANDSCAPED SHALL BE EXCAVATED TO THE DEPTH APPROPRIATE FOR THE PROPOSED PLANTINGS. NO EXISTING SOD SHALL REMAIN IN NEW PLANTING AREAS.
- PLANT QUANTITIES SHOWN ON DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL PROVIDE PLANT MATERIALS SUFFICIENT TO COVER AREAS SHOWN ON PLANS AT THE SPACING INDICATED.
- ANY AREAS OUTSIDE OF THE LANDSCAPE BEDS THAT ARE DISTURBED SHALL BE REPLACED IN KIND.
- NO PLANTING SHALL BE CLOSER THAN 72" FROM FACE OF MEDIAN CURB. NO TREES SHALL BE CLOSER THAN 72" FROM FACE OF MEDIAN CURB.
- MULCH METHOD 2 SHALL BE USED AT ALL SEEDING LOCATIONS NOT PROTECTED BY EROSION CONTROL BLANKET. HATCHING MAY HAVE BEEN OMITTED FOR CLARITY.
- WEED CONTROL. NON-SELECTIVE AND NON-RESIDUAL (WETLAND SHOULD BE USED AT ALL INTERSEEDING CLASS 4 AREAS.)
- INTERSEEDING. CLASS 4 SHOULD BE USED WITHIN THE LIMITS OF SELECTIVE CLEARING.
- FOR LANDSCAPE PLANTING DETAILS, SEE SHEETS LA-11 & LA-12.
- FOR PLANT SCHEDULE, SEE SHEET LA-13.
- FOR PROPOSED LANDSCAPE WALL DETAILS, SEE SHEET LA-14.
- FOR ADDITIONAL PLANTING NOTES, SEE SHEET LA-12.
- COORDINATE ALL LANDSCAPE PLANTINGS WITH NEW AND EXISTING UTILITY LINES AND STRUCTURES.
- CONNECT ALL UNDERDRAINS TO NEAREST DRAINAGE STRUCTURE. COORDINATE WITH EOR/AOR.
- ALL NEW SHADE TREES SHALL BE 15'-0" MIN. AWAY FROM OVERHEAD UTILITY LINES AND STRUCTURES.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND SURVEY WITH PROPOSED PLANES. COORDINATE ANY DISCREPANCIES WITH EOR/AOR.

LEGEND:

- EXISTING PROPERTY LINE
- TEMPORARY EASEMENT
- LANDSCAPE WALL
- GREEN SCREEN FENCE
- 4" UNDERDRAIN
- EXISTING LANDSCAPE TO REMAIN AND BE PROTECTED. COORDINATE WITH LANDSCAPE ARCHITECT
- PERENNIALS/ORNAMENTAL GRASS TOPSOIL 12"
- SALT TOLERANT SOD TOPSOIL 6"
- SEEDING CLASS 2A TOPSOIL 6"
- SEEDING CLASS 4 TOPSOIL 6"
- WETLAND SITE
- SHADE TREE TOPSOIL 36"
- ORNAMENTAL TREE TOPSOIL 36"
- SHRUBS + VINES TOPSOIL 24"
- EXISTING TREE TO REMAIN AND BE PROTECTED

PLANT SCHEDULE						
SHADE TREES						
CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
GD	19	Gymnocladus dioica	Kentucky Coffee Tree	2.5" cal.	B&B	matching heads
QM	5	Quercus muehlenbergii	Chinkapin Oak	2.5" cal.	B&B	matching heads
ORNAMENTAL TREES						
CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
CV	8	Crataegus viridis 'Winter King'	Winter King Hawthorn	8"H	B&B	multi-stem
CV.S	7	Crataegus viridis 'Winter King'	Winter King Hawthorn	2.5" cal.	B&B	matching heads
PV	6	Prunus virginiana 'Canada Red'	Canada Red Cherry	2.5" cal.	B&B	matching heads
SHRUBS						
CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
HK	52	Hypericum kalmianum 'Ames'	St. Johnswort	18"H	pot	30" o.c.
RA	106	Rhus aromatica 'Gro Low'	Grow Low Sumac	24"W	pot	30" o.c.
RO.R	44	Rosa 'Radrazz'	Knock Out Red Rose	3 gal.	pot	36" o.c.
SP.TR	94	Spirea 'Tor'	Birchleaf Tor Spirea	24"H	pot	30" o.c.
PERENNIALS, ORNAMENTAL GRASSES, VINES AND OTHER						
CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
A.BF	153	Agastache 'Blue Fortune'	Blue Fortune Agastache	gal.	pot	15" o.c.
LS.W	102	Liatris spicata 'White'	White Blazing Star	gal.	pot	15" o.c.
PA	49	Pennisetum alopecuroides	Fountain Grass	gal.	pot	30" o.c.
SS.CA	299	Schizachyrium scoparium 'Carousel'	Carousel Little Bluestem	3 gal.	pot	24" o.c.
T.R	255	Red Impression Tulp/Darwin Hybrid	Red Impression Tulp	12+ cm	bulb	15" interplanted

FILE NAME =  
7102\_land.dwg

USER NAME = j.grossman

DESIGNED — AB

REVISED —

DRAWN — JR

REVISED —

PLOT SCALE = AS SHOWN

CHECKED — BM

REVISED —

PLOT DATE = 2/4/2013

DATE — 03/13/13

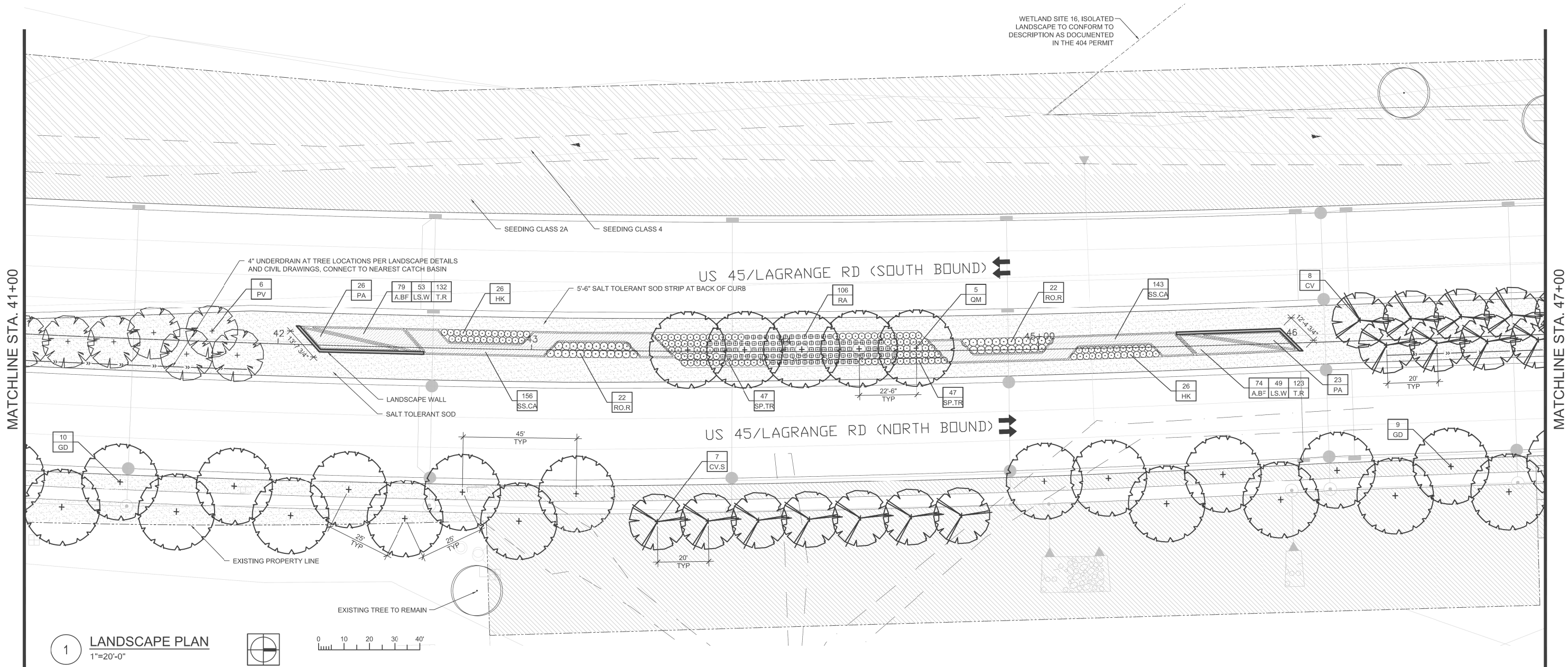
REVISED —

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN  
US 45 (LAGRANGE ROAD)

SCALE: AS SHOWN SHEET NO. 2 OF 15 SHEETS STA. 41+00.00 TO STA. 47+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	426
LA-02		CONTRACT NO. 60F05		
		ILLINOIS FED. AID PROJECT		



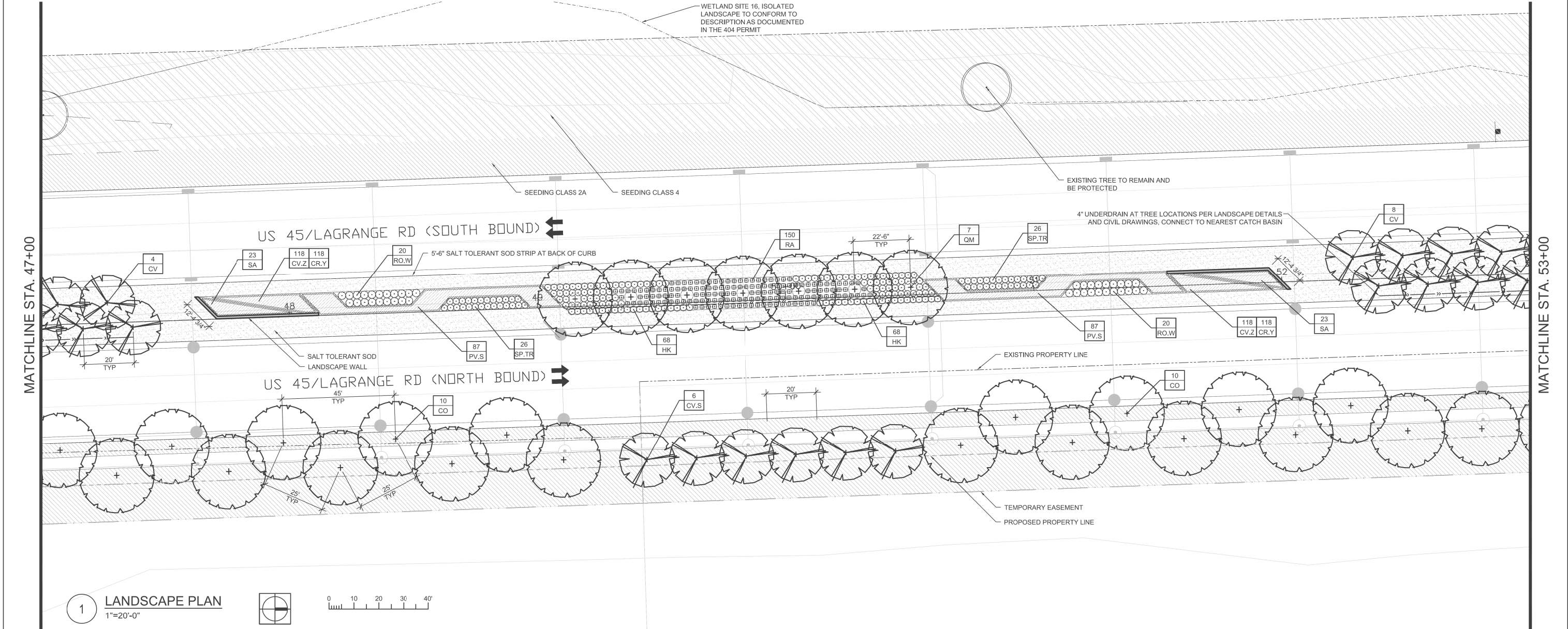
1 LANDSCAPE PLAN  
1"=20'-0"

NOTES:

- ALL PLANTINGS SHALL FOLLOW IDOT BUREAU OF DESIGN & ENVIRONMENT MANUAL - CHAPTER 59 - LANDSCAPE DESIGN AND EROSION CONTROL 59-7.09 PLANTING IN URBANIZED AREA FOR SIGHT DISTANCES.
- ALL AREAS TO BE LANDSCAPED SHALL BE EXCAVATED TO THE DEPTH APPROPRIATE FOR THE PROPOSED PLANTINGS. NO EXISTING SOD SHALL REMAIN IN NEW PLANTING AREAS.
- PLANT QUANTITIES SHOWN ON DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL PROVIDE PLANT MATERIALS SUFFICIENT TO COVER AREAS SHOWN ON PLANS AT THE SPACING INDICATED.
- ANY AREAS OUTSIDE OF THE LANDSCAPE BEDS THAT ARE DISTURBED SHALL BE REPLACED IN KIND.
- NO PLANTING SHALL BE CLOSER THAN 72" FROM FACE OF MEDIAN CURB. NO TREES SHALL BE CLOSER THAN 72" FROM FACE OF MEDIAN CURB.
- MULCH METHOD 2 SHALL BE USED AT ALL SEEDING LOCATIONS NOT PROTECTED BY EROSION CONTROL BLANKET. HATCHING MAY HAVE BEEN OMITTED FOR CLARITY.
- WEED CONTROL. NON-SELECTIVE AND NON-RESIDUAL (WETLAND SHOULD BE USED AT ALL INTERSEEDING CLASS 4 AREAS.)
- INTERSEEDING. CLASS 4 SHOULD BE USED WITHIN THE LIMITS OF SELECTIVE CLEARING.
- FOR LANDSCAPE PLANTING DETAILS, SEE SHEETS LA-11 & LA-12.
- FOR PLANT SCHEDULE, SEE SHEET LA-13.
- FOR PROPOSED LANDSCAPE WALL DETAILS, SEE SHEET LA-14.
- FOR ADDITIONAL PLANTING NOTES, SEE SHEET LA-12.
- COORDINATE ALL LANDSCAPE PLANTINGS WITH NEW AND EXISTING UTILITY LINES AND STRUCTURES.
- CONNECT ALL UNDERDRAINS TO NEAREST DRAINAGE STRUCTURE. COORDINATE WITH EOR/AOR.
- ALL NEW SHADE TREES SHALL BE 15'-0" MIN. AWAY FROM OVERHEAD UTILITY LINES AND STRUCTURES.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND SURVEY WITH PROPOSED PLANES. COORDINATE ANY DISCREPANCIES WITH EOR/AOR.

LEGEND:

- EXISTING PROPERTY LINE
- TEMPORARY EASEMENT
- LANDSCAPE WALL
- GREEN SCREEN FENCE
- 4" UNDERDRAIN
- SHADE TREE TOPSOIL 36"
- ORNAMENTAL TREE TOPSOIL 36"
- SHRUBS + VINES TOPSOIL 24"
- EXISTING TREE TO REMAIN AND BE PROTECTED
- EXISTING LANDSCAPE TO REMAIN AND BE PROTECTED. COORDINATE WITH LANDSCAPE ARCHITECT
- PERENNIALS/ORNAMENTAL GRASS TOPSOIL 12"
- SALT TOLERANT SOD TOPSOIL 6"
- SEEDING CLASS 2A TOPSOIL 6"
- SEEDING CLASS 4 TOPSOIL 6"
- WETLAND SITE



PLANT SCHEDULE						
SHADE TREES						
CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
CO	20	Celtis occidentalis	Northern Hackberry	2.5" cal.	B&B	matching heads
QM	7	Quercus muehlenbergii	Chinkapin Oak	2.5" cal.	B&B	matching heads
ORNAMENTAL TREES						
CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
CV	12	Crataegus viridis 'Winter King'	Winter King Hawthorn	8'H	B&B	multi-stem
CV.S	6	Crataegus viridis 'Winter King'	Winter King Hawthorn	2.5" cal.	B&B	matching heads
SHRUBS						
CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
HK	136	Hypericum kalmianum 'Ames'	St. Johnswort	18"H	pot	30" o.c.
RA	150	Rhus aromatica 'Gro Low'	Grow Low Sumac	24"W	pot	30" o.c.
RO.W	40	Rosa 'JACruwhi 'Wild Spice'	Wild Spice White Rose	3 gal.	pot	36" o.c.
SP.TR	52	Spiraea 'Tor'	Birchleaf Tor Spirea	24"H	pot	30" o.c.
PERENNIALS, ORNAMENTAL GRASSES, VINES AND OTHER						
CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
CR.Y	236	Crocus 'Yellow'	Yellow Crocus	8 cm.	pot	15" Interplanted
CV.Z	236	Coreopsis verticillata 'Zagreb'	Zagreb Coreopsis	gal.	pot	15" o.c.
PV.S	174	Panicum virgatum 'Shenandoah'	Shenadoah Switch Grass	3 gal.	pot	30" o.c.
SA	46	Sesleria autumnalis	Autumn Moor Grass	3 gal.	pot	30" o.c.

NOTES:

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- ANY AREAS OUTSIDE OF THE LANDSCAPE BEDS THAT ARE DISTURBED SHALL BE REPLACED IN KIND.
- NO PLANTING SHALL BE CLOSER THAN 72" FROM FACE OF MEDIAN CURB. NO TREES SHALL BE CLOSER THAN 72" FROM FACE OF MEDIAN CURB.
- MULCH METHOD 2 SHALL BE USED AT ALL SEEDING LOCATIONS NOT PROTECTED BY EROSION CONTROL BLANKET. HATCHING MAY HAVE BEEN OMITTED FOR CLARITY.
- WEED CONTROL. NON-SELECTIVE AND NON-RESIDUAL (WETLAND SHOULD BE USED AT ALL INTERSEEDING CLASS 4 AREAS.)
- INTERSEEDING. CLASS 4 SHOULD BE USED WITHIN THE LIMITS OF SELECTIVE CLEARING.
- FOR LANDSCAPE PLANTING DETAILS, SEE SHEETS LA-11 & LA-12.
- FOR PLANT SCHEDULE, SEE SHEET LA-13.
- FOR PROPOSED LANDSCAPE WALL DETAILS, SEE SHEET LA-14.
- FOR ADDITIONAL PLANTING NOTES, SEE SHEET LA-12.
- COORDINATE ALL LANDSCAPE PLANTINGS WITH NEW AND EXISTING UTILITY LINES AND STRUCTURES.
- CONNECT ALL UNDERDRAINS TO NEAREST DRAINAGE STRUCTURE. COORDINATE WITH EOR/AOR.
- ALL NEW SHADE TREES SHALL BE 15'-0" MIN. AWAY FROM OVERHEAD UTILITY LINES AND STRUCTURES.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND SURVEY WITH PROPOSED PLANES. COORDINATE ANY DISCREPANCIES WITH EOR/AOR.

LEGEND:

- EXISTING PROPERTY LINE
- TEMPORARY EASEMENT
- SHADE TREE TOPSOIL 36"
- ORNAMENTAL TREE TOPSOIL 36"
- SHRUBS + VINES TOPSOIL 24"
- EXISTING TREE TO REMAIN AND BE PROTECTED
- LANDSCAPE WALL
- GREEN SCREEN FENCE
- 4" UNDERDRAIN
- EXISTING TOLERANT LANDSCAPE TO REMAIN AND BE PROTECTED. COORDINATE WITH LANDSCAPE ARCHITECT
- PERENNIALS/ORNAMENTAL GRASS TOPSOIL 12"
- SALT TOLERANT SOD TOPSOIL 6"
- SEEDING CLASS 2A TOPSOIL 6"
- SEEDING CLASS 4 TOPSOIL 6"
- WETLAND SITE










FILE NAME = 7102_land.dwg	USER NAME = jgrossman	DESIGNED — AB	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LANDSCAPING PLAN US 45 (LAGRANGE ROAD)	SCALE: AS SHOWN	SHEET NO. 3 OF 15 SHEETS	STA. 47+00.00 TO STA. 53+00.00	F.A.P. RTE. 330	SECTION 103R—3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 427
		DRAWN — JR	REVISED —						LA-03				
	PLOT SCALE = AS SHOWN	CHECKED — BM	REVISED —						CONTRACT NO. 60F05				
	PLOT DATE = 2/4/2013	DATE — 03/13/13	REVISED —						ILLINOIS FED. AID PROJECT				

MATCHLINE STA. 59+00



NOTES:

- LEGEND:

- |   |  |
|---|--|
|  | LANDSCAPE WALL   |
|  | GREEN SCREEN FENCE   |
|  | 4" UNDERDRAIN  |
|  | EXISTING LANDSCAPE TO REMAIN<br>AND BE PROTECTED. COORDINATE<br>WITH LANDSCAPE ARCHITECT |
|  | PERENNIALS/ORNAMENTAL GRASS<br>TOPSOIL 12"   |
|  | SALT TOLERANT SOD<br>TOPSOIL 6"  |
|  | SEEDING CLASS 2A<br>TOPSOIL 6"   |
|  | SEEDING CLASS 4<br>TOPSOIL 6"  |
|  | WETLAND SITE   |

FILE NAME = 7102_Land.dwg	USER NAME = Jrossman	DESIGNED — AB	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LANDSCAPING PLAN US 45 (LAGRANGE ROAD)			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN — JR	REVISED —					330	103R-3	COOK	932	428
	PLOT SCALE = AS SHOWN	CHECKED — BM	REVISED —		LA-04 CONTRACT NO. 60F05							
	PLOT DATE = 2/4/2013	DATE — 03/13/13	REVISED —									
					SCALE: AS SHOWN	SHEET NO. 4 OF 15 SHEETS	STA. 53+00.00 TO STA. 59+00.00	ILLINOIS FED. AID PROJECT				

1 LANDSCAPE PLAN  
1"=20'-0"



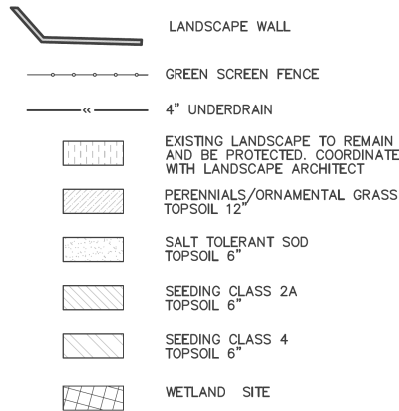
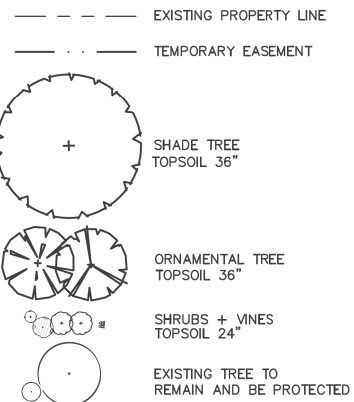
PLANT SCHEDULE						
SHADE TREES						
CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
QB	8	Quercus bicolor	Swamp White Oak	2.5" cal.	B&B	matching heads
QI	7	Quercus imbricaria	Shingle Oak	2.5" cal.	B&B	matching heads
ORNAMENTAL TREES						
CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
PV	15	Prunus virginiana "Canada Red"	Canada Red Cherry	2.5" cal.	B&B	matching heads

NOTES:

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- ALL AREAS TO BE LANDSCAPED SHALL BE EXCAVATED TO THE DEPTH APPROPRIATE FOR THE PROPOSED PLANTINGS. NO EXISTING SOD SHALL REMAIN IN NEW PLANTING AREAS.
- PLANT QUANTITIES SHOWN ON DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL PROVIDE PLANT MATERIALS SUFFICIENT TO COVER AREAS SHOWN ON PLANS AT THE SPACING INDICATED.
- ANY AREAS OUTSIDE OF THE LANDSCAPE BEDS THAT ARE DISTURBED SHALL BE REPLACED IN KIND.
- NO PLANTING SHALL BE CLOSER THAN 72" FROM FACE OF MEDIAN CURB. NO TREES SHALL BE CLOSER THAN 72" FROM FACE OF MEDIAN CURB.
- MULCH METHOD 2 SHALL BE USED AT ALL SEEDING LOCATIONS NOT PROTECTED BY EROSION CONTROL BLANKET. HATCHING MAY HAVE BEEN OMITTED FOR CLARITY.
- WEED CONTROL. NON-SELECTIVE AND NON-RESIDUAL (WETLAND SHOULD BE USED AT ALL INTERSEEDING CLASS 4 AREAS.)

- INTERSEEDING. CLASS 4 SHOULD BE USED WITHIN THE LIMITS OF SELECTIVE CLEARING.
- FOR LANDSCAPE PLANTING DETAILS, SEE SHEETS LA-11 & LA-12.
- FOR PLANT SCHEDULE, SEE SHEET LA-13.
- FOR PROPOSED LANDSCAPE WALL DETAILS, SEE SHEET LA-14.
- FOR ADDITIONAL PLANTING NOTES, SEE SHEET LA-12.
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- CONNECT ALL UNDERDRAINS TO NEAREST DRAINAGE STRUCTURE. COORDINATE WITH EOR/AOR.
- ALL NEW SHADE TREES SHALL BE 15'-0" MIN. AWAY FROM OVERHEAD UTILITY LINES AND STRUCTURES.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND SURVEY WITH PROPOSED PLANES. COORDINATE ANY DISCREPANCIES WITH EOR/AOR.

LEGEND:



FILE NAME =  
7102\_land.dwg

USER NAME = jrossman

DESIGNED = AB

REVISED =

DRAWN = JR

REVISED =

PLOT SCALE = AS SHOWN

CHECKED = BM

REVISED =

PLOT DATE = 2/4/2013

DATE = 03/13/13

REVISED =

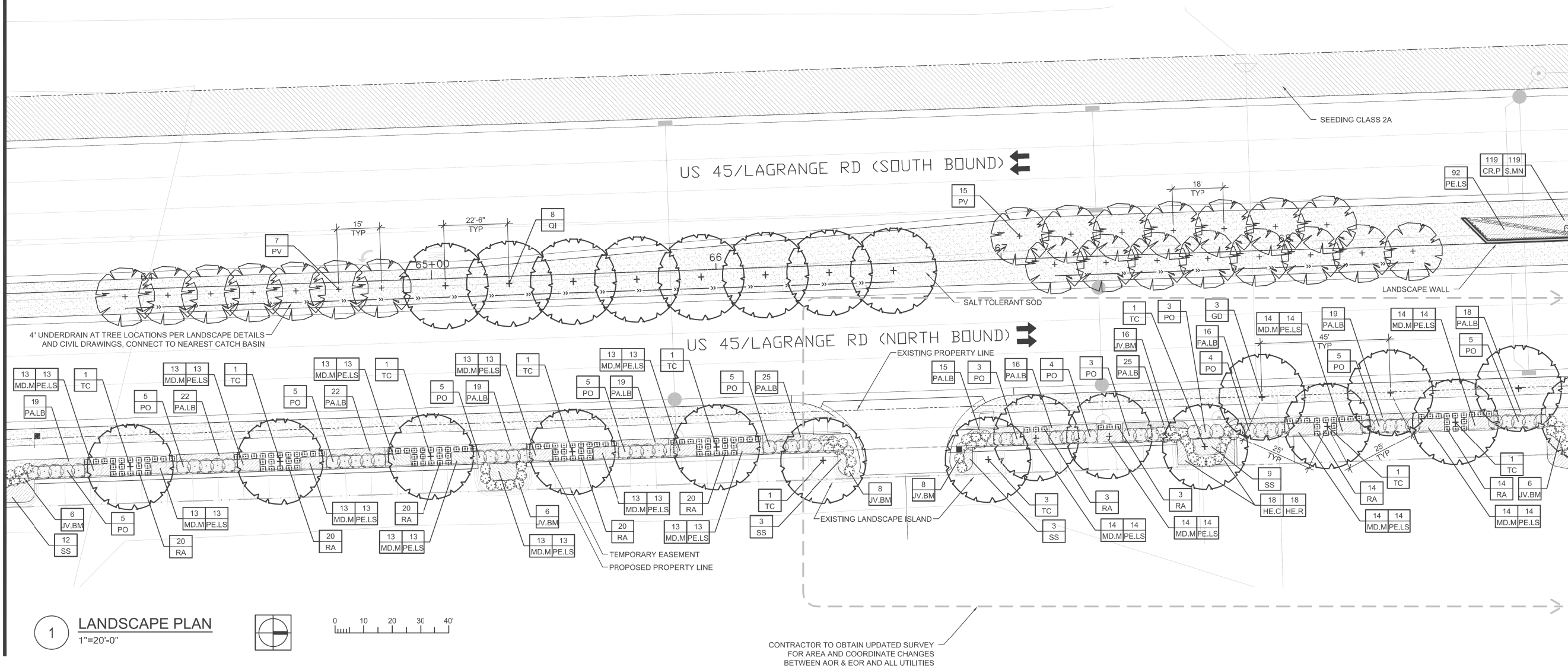
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN  
US 45 (LAGRANGE ROAD)

SCALE: AS SHOWN SHEET NO. 5 OF 15 SHEETS STA. 59+00.00 TO STA. 63+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	429
LA-05		CONTRACT NO. 60F05		
ILLINOIS		FED. AID PROJECT		

MATCHLINE STA. 63+50



MATCHLINE STA. 69+00

1 LANDSCAPE PLAN  
1"=20'-0"



CONTRACTOR TO OBTAIN UPDATED SURVEY  
FOR AREA AND COORDINATE CHANGES  
BETWEEN AOR & EOR AND ALL UTILITIES

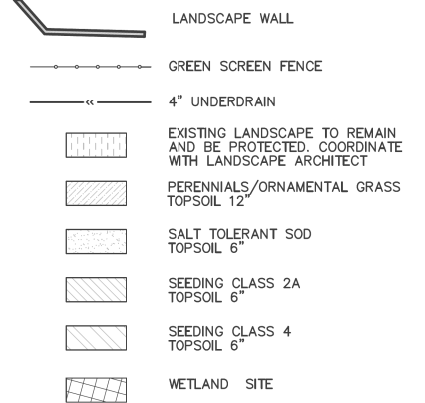
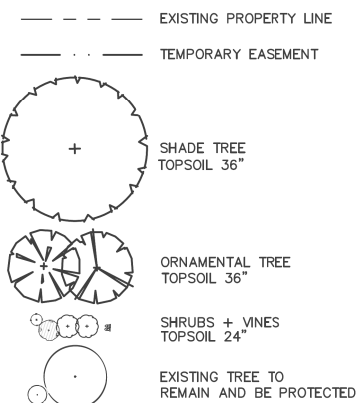
PLANT SCHEDULE						
SHADE TREES						
CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
GD	3	Gymnocladus dioica	Kentucky Coffee Tree	2.5" cal.	B&B	matching heads
QI	6	Quercus imbricaria	Shingle Oak	2.5" cal.	B&B	matching heads
TC	12	Tilia cordata	Little Leaf Linden	2.5" cal.	B&B	matching heads
ORNAMENTAL TREES						
CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
PV	22	Prunus virginiana 'Canada Red'	Canada Red Cherry	2.5" cal.	B&B	matching heads
SHRUBS						
CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
JV.BM	50	Juniper virginiana 'Blue Mountain'	Blue Mountain Juniper	5 gal.	pot	42" o.c.
PO	57	Physocarpus opulifolius 'Monlo'	Diablo Ninebark	36"H	B&B	40" o.c.
RA	134	Rhus aromatica 'Gro Low'	Grow Low Sumac	24"W	pot	30" o.c.
PERENNIALS, ORNAMENTAL GRASSES, VINES AND OTHER						
CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
CR.P	119	Crocus 'Purple'	Purple Crocus	8 cm.	pot	15" interplanted
HE.C	18	Hemerocallis 'Chicago Apache'	Chicago Apache Daylily	gal.	pot	15" o.c.
HE.R	18	Hemerocallis 'Rosy Returns'	Rosy Returns Pink Daylily	gal.	pot	15" o.c.
MD.M	227	Mondarda didyma 'Marshall's Delight'	Marshall's Delight Monarda	gal.	pot	15" o.c.
PALB	235	Pennisetum alopecuroides 'Little Bunny'	Little Bunny Fountain Grass	gal.	pot	18" o.c.
PELS	319	Perovskia atriplicifolia 'Little Spire'	Little Spire Russian Sage	gal.	pot	15" o.c.
S.MN	119	Salvia 'May Night'	May Night Salvia	gal.	pot	15" o.c.
SS	27	Schizachyrium scoparium	Little Bluestem	3 gal.	pot	30" o.c.

#### NOTES:

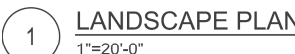
- ALL PLANTINGS SHALL FOLLOW IDOT BUREAU OF DESIGN & ENVIRONMENT MANUAL - CHAPTER 59 - LANDSCAPE DESIGN AND EROSION CONTROL 59-7.09 PLANTING IN URBANIZED AREA FOR SIGHT DISTANCES.
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#### LEGEND:





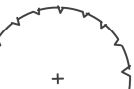












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7102_land.dwg				DRAWN = JR		REVISED =						330		103R-3		COOK		932		430	
		PLOT SCALE = AS SHOWN		CHECKED = BM		REVISED =								LA-06							
		PLOT DATE = 2/4/2013		DATE = 03/13/13		REVISED =				SCALE: AS SHOWN		SHEET NO. 6 OF 15 SHEETS		STA. 63+50.00 TO STA. 69+00.00						ILLINOIS FED. AID PROJECT	

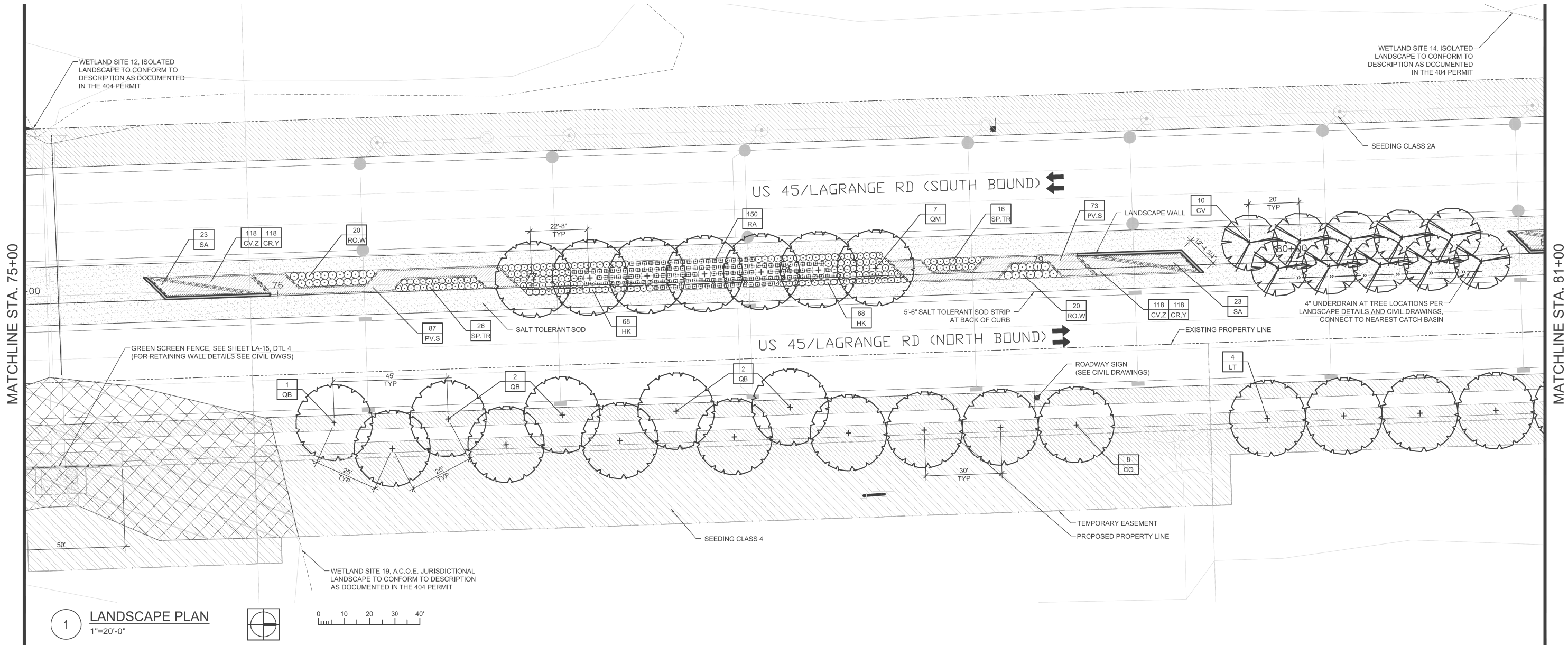


NOTES:

- LEGEND:

- |   |   |   |  |
|---|---|---|--|
|  | EXISTING PROPERTY LINE                      |  | LANDSCAPE WALL   |
|  | TEMPORARY EASEMENT                          |  | GREEN SCREEN FENCE   |
|  | SHADE TREE<br>TOPSOIL 36"                   |  | 4" UNDERDRAIN  |
|  | ORNAMENTAL TREE<br>TOPSOIL 36"              |  | EXISTING LANDSCAPE TO REMAIN<br>AND BE PROTECTED. COORDINATE<br>WITH LANDSCAPE ARCHITECT |
|  | SHRUBS + VINES<br>TOPSOIL 24"               |  | PERENNIALS/ORNAMENTAL GRASS<br>TOPSOIL 12"   |
|  | EXISTING TREE TO<br>REMAIN AND BE PROTECTED |  | SALT TOLERANT SOD<br>TOPSOIL 6"  |
|   |   |  | SEEDING CLASS 2A<br>TOPSOIL 6"   |
|   |   |  | SEEDING CLASS 4<br>TOPSOIL 6"  |
|   |   |  | WETLAND SITE   |

FILE NAME = 7102_land.dwg	USER NAME = jrossman	DESIGNED — AB	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LANDSCAPING PLAN US 45 (LAGRANGE ROAD)				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN — JR	REVISED —						330	103R-3	COOK	932	431
	PLOT SCALE = AS SHOWN	CHECKED — BM	REVISED —		LA-07		CONTRACT NO. 60F05						
	PLOT DATE = 2/4/2013	DATE — 03/13/13	REVISED —		SCALE: AS SHOWN	SHEET NO. 7 OF 15 SHEETS	STA. 69+00.00 TO STA. 75+00.00	ILLINOIS FED. AID PROJECT					



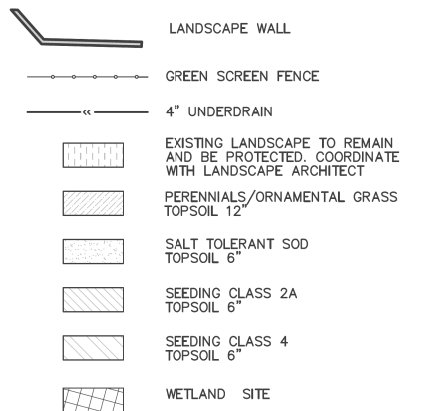
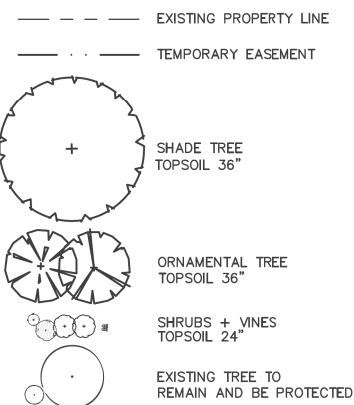
1 LANDSCAPE PLAN  
1"=20'-0"



NOTES:

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LEGEND:



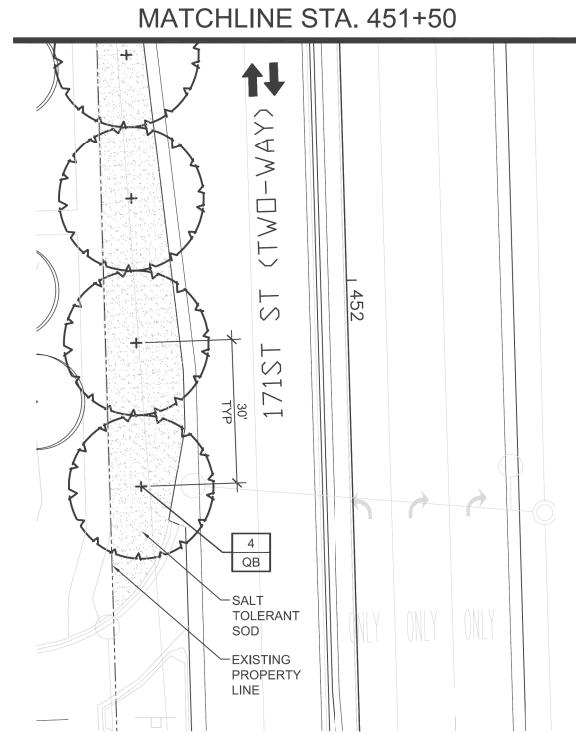
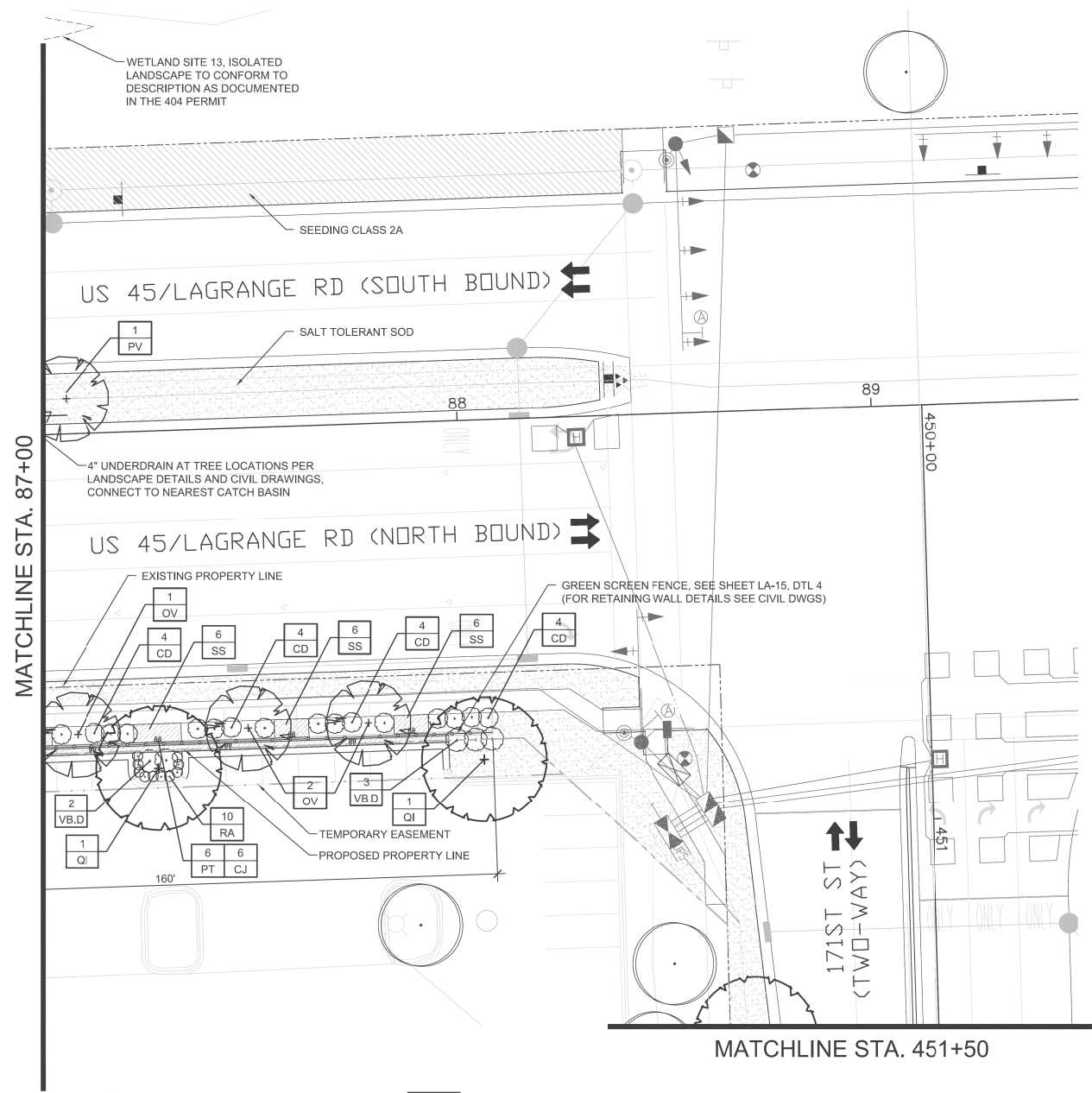
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	PLOT SCALE = AS SHOWN	CHECKED = BM	REVISED =		SCALE: AS SHOWN	SHEET NO. 8 OF 15 SHEETS	STA. 75+00.00 TO STA. 81+00.00	CONTRACT NO. 60F05		
	PLOT DATE = 2/4/2013	DATE = 03/13/13	REVISED =					ILLINOIS FED. AID PROJECT		



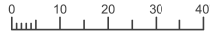
NOTES:

- LEGEND:

- |                              |                       |                 |           |  |  |                          |                                |  |               |         |        |                 |              |
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| FILE NAME =<br>7102_land.dwg | USER NAME = jrossman  | DESIGNED — AB   | REVISED — | <div style="text-align: center;"> <b>STATE OF ILLINOIS</b><br/> <b>DEPARTMENT OF TRANSPORTATION</b> </div> | <div style="text-align: center;"> <b>LANDSCAPING PLAN</b><br/> <b>US 45 (LAGRANGE ROAD)</b> </div> |                          |                                |  | F.A.P<br>RTE. | SECTION | COUNTY | TOTAL<br>SHEETS | SHEET<br>NO. |
|                              |                       | DRAWN — JR      | REVISED — |  |  |                          |                                |  | 330           | 103R-3  | COOK   | 932             | 433          |
|                              | PLOT SCALE = AS SHOWN | CHECKED — BM    | REVISED — |  | <div style="text-align: center;"> <b>LA-09</b><br/> CONTRACT NO. 60F05 </div>                      |                          |                                |  |               |         |        |                 |              |
|                              | PLOT DATE = 2/4/2013  | DATE — 03/13/13 | REVISED — |  |  |                          |                                |  |               |         |        |                 |              |
|                              |                       |                 |           |  | SCALE: AS SHOWN  | SHEET NO. 9 OF 15 SHEETS | STA. 81+00.00 TO STA. 87+00.00 | <div style="text-align: center;"> ILLINOIS FED. AID PROJECT </div> |               |         |        |                 |              |



1 LANDSCAPE PLAN  
1"=20'-0"

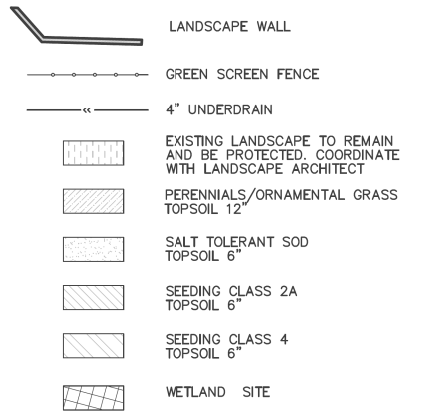
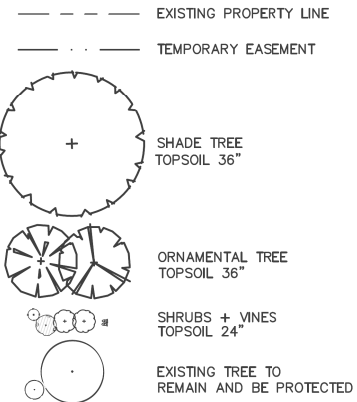


NOTES:

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LEGEND:



PLANT SCHEDULE						
SHADE TREES						
CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
QB	4	Quercus bicolor	Swamp White Oak	2.5" cal.	B&B	matching heads
QI	2	Quercus imbricaria	Shingle Oak	2.5" cal.	B&B	matching heads
ORNAMENTAL TREES						
CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
OV	3	Ostrya virginiana	American Hophornbeam	10"H	B&B	multi-stem
PV	1	Prunus virginiana 'Canada Red'	Canada Red Cherry	2.5" cal.	B&B	matching heads
SHRUBS						
CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
CD	16	Cornus racemosa	Gray Dogwood	36"H	B&B	48" o.c.
RA	10	Rhus aromatica 'Gro Low'	Grow Low Sumac	24"W	pot	30" o.c.
VB.D	5	Viburnum dentatum	Arrowwood Dogwood	36"H	B&B	48" o.c.
PERENNIALS, ORNAMENTAL GRASSES, VINES AND OTHER						
CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
CJ	6	Clematis x 'Jackmanii'	Jackman Clematis	gal.	pot	per plan
PT	6	Parthenocissus tricuspidata	Boston Ivy	gal.	pot	per plan
SS	18	Schizachyrium scoparium	Little Bluestem	3 gal.	pot	30" o.c.

FILE NAME =  
7102\_land.dwg

USER NAME = jrossman

DESIGNED - AB

REVISED -

DRAWN - JR

REVISED -

PLOT SCALE = AS SHOWN

CHECKED - BM

REVISED -

PLOT DATE = 2/4/2013

DATE - 03/13/13

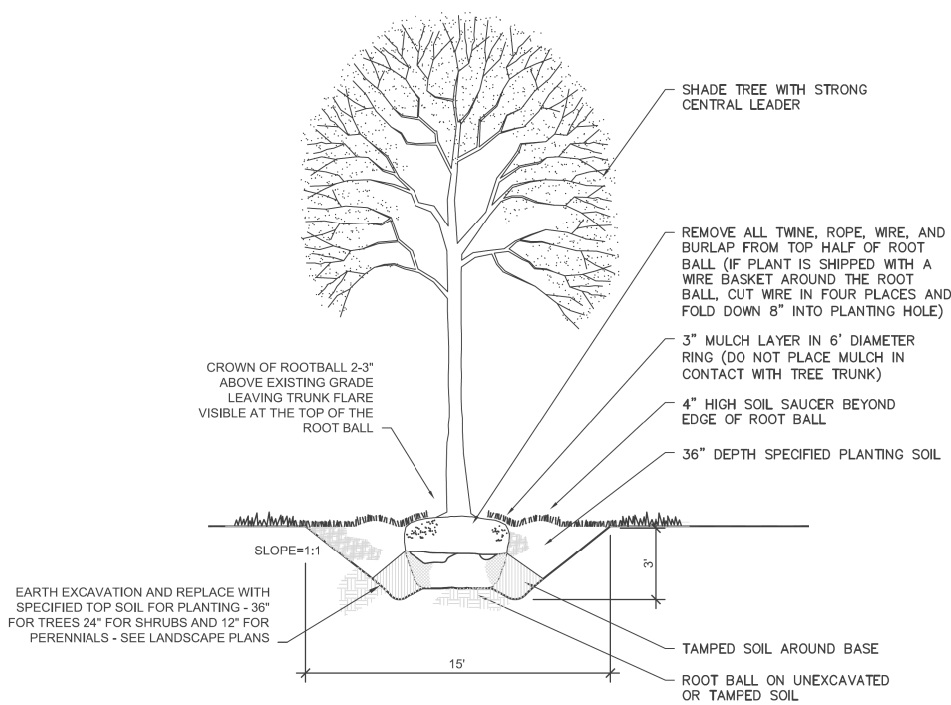
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

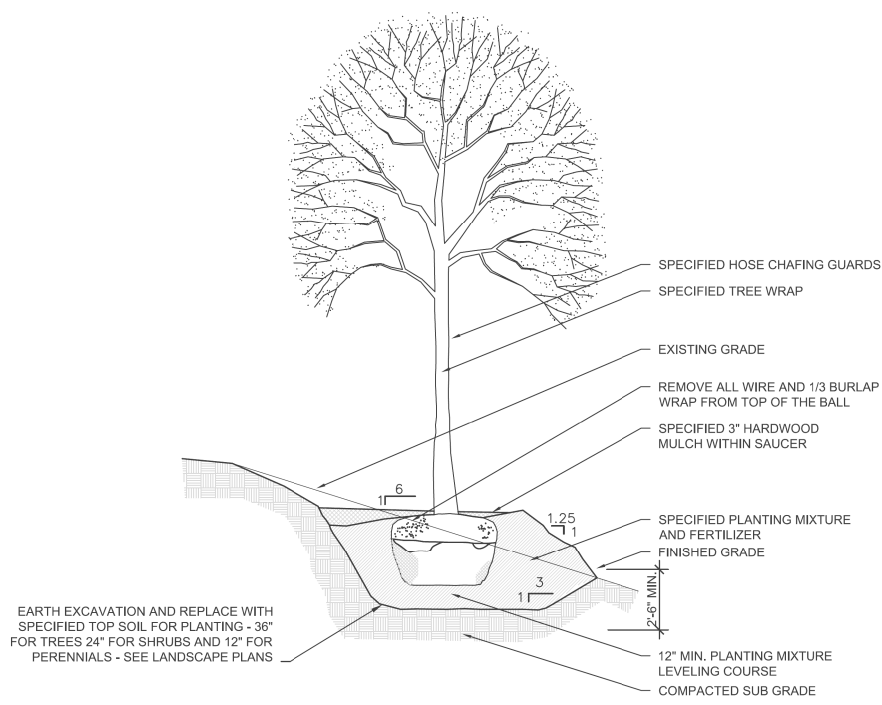
LANDSCAPING PLAN  
US 45 (LAGRANGE ROAD)

SCALE: AS SHOWN SHEET NO. 10 OF 15 SHEETS STA. 87+00.00 TO STA. 89+50.00

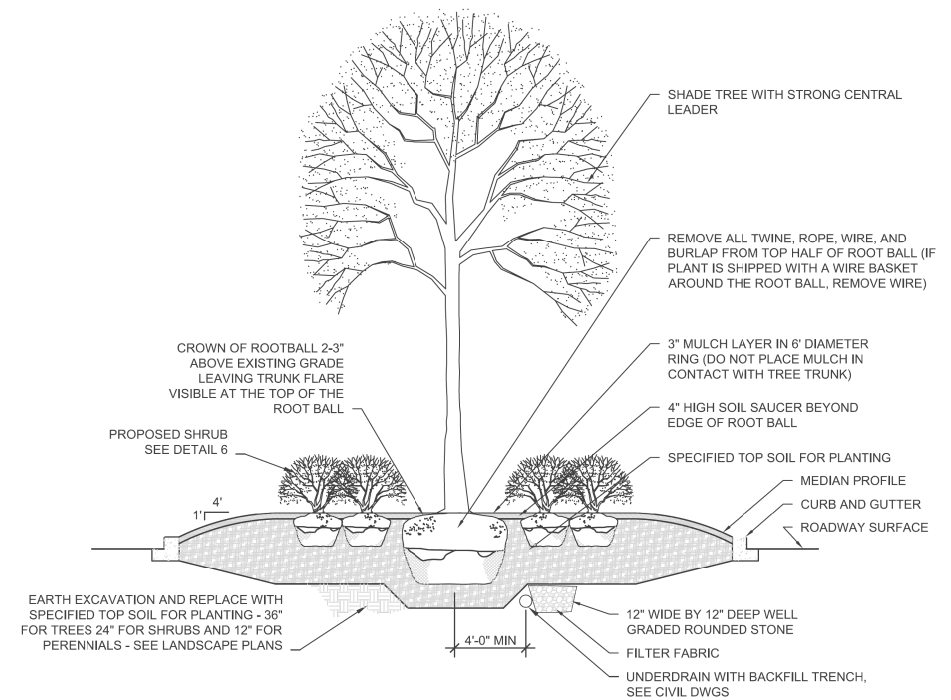
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	434
LA-10		CONTRACT NO. 60F05		
ILLINOIS		FED. AID PROJECT		



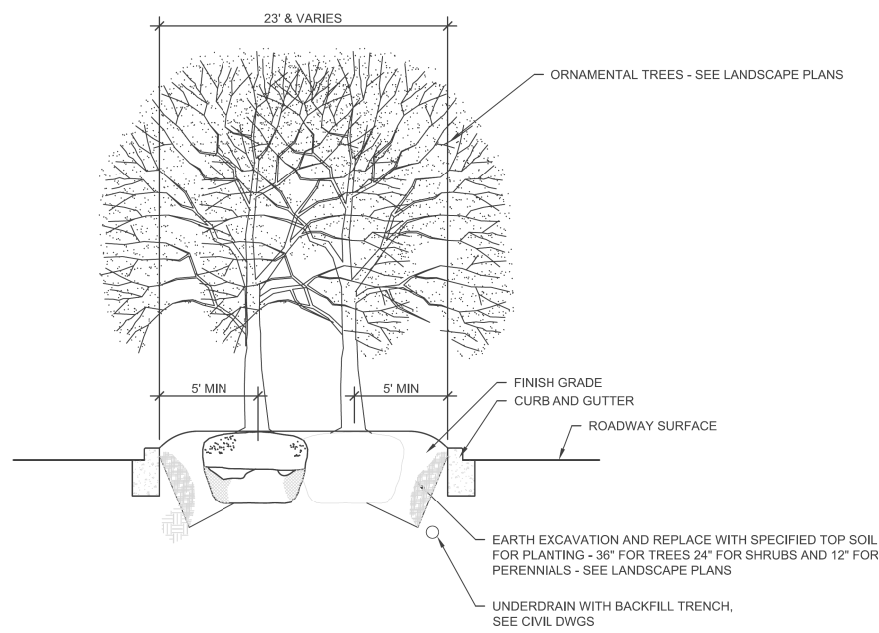
1 **TREE PLANTING SECTION**  
NOT TO SCALE



2 **TREE PLANTING ON SLOPE SECTION**  
NOT TO SCALE



3 **SHADE TREE PLANTING IN MEDIAN SECTION**  
NOT TO SCALE



4 **ORNAMENTAL TREE PLANTING IN MEDIAN SECTION**  
NOT TO SCALE

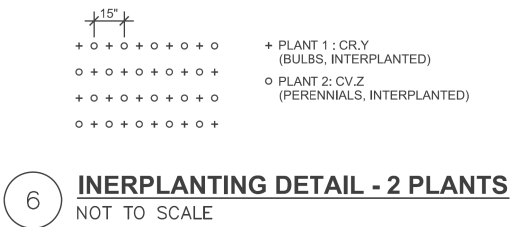
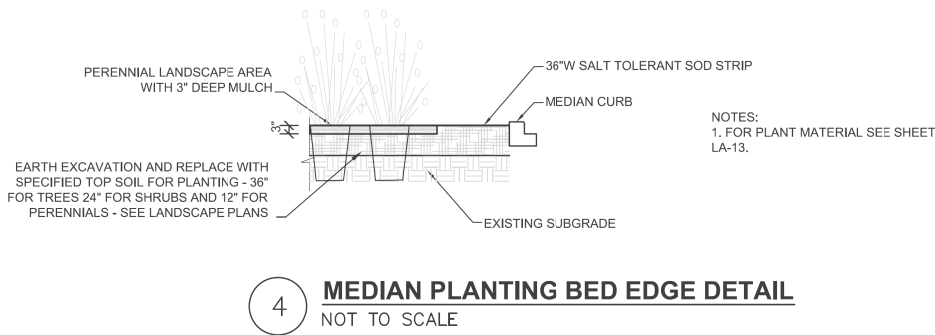
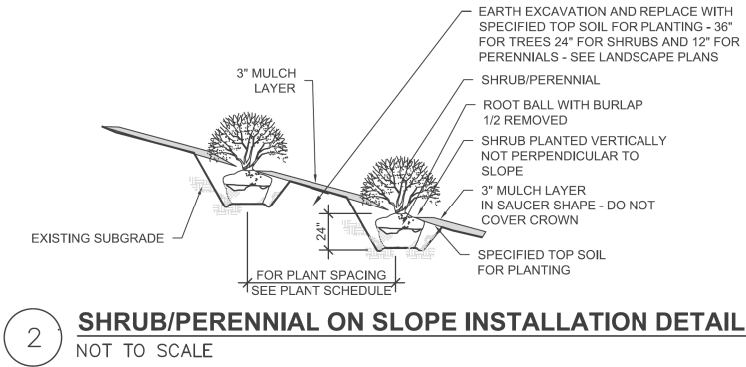
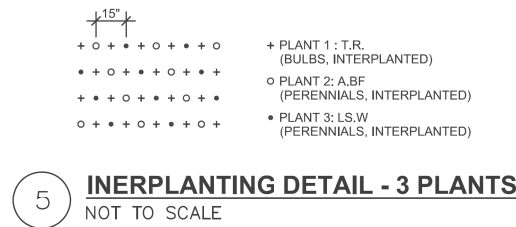
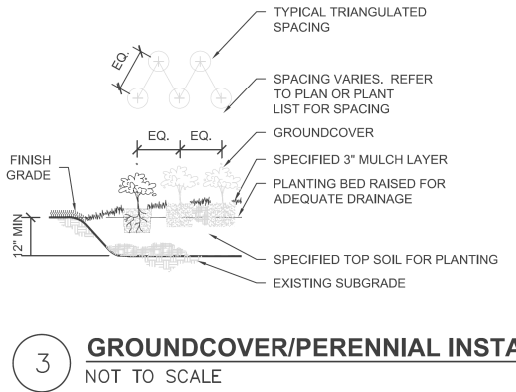
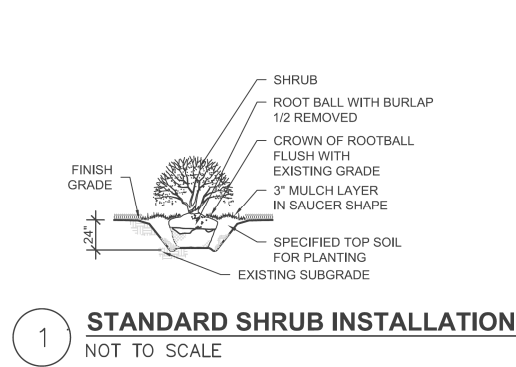
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7102_landdtl.dwg		DRAWN = JR	REVISED =
	PLOT SCALE = AS SHOWN	CHECKED = BM	REVISED =
	PLOT DATE = 2/4/2013	DATE = 03/13/13	REVISED =

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LANDSCAPING DETAILS I

SCALE: AS SHOWN SHEET NO. 11 OF 15 SHEETS STA. BEGIN TO STA. 89+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	435
LA-11		CONTRACT NO. 60F05		
		ILLINOIS FED. AID PROJECT		



## GENERAL PLANTING NOTES

- CONTRACTOR SHALL VERIFY SITE CONDITIONS BEFORE PROCEEDING WITH WORK AND SHALL REPORT ANY CONFLICT TO A/E.
- EXACT LOCATIONS OF ALL UNDERGROUND UTILITIES SHALL BE DETERMINED AND VERIFIED IN THE FIELD BY CONTRACTOR. CONTRACTOR SHALL REPORT ANY CONFLICTS TO A/E PRIOR TO BEGINNING WORK.
- THE CONTRACTOR SHALL COORDINATE THIS WORK WITH OTHER TRADES AND MAINTAIN DRAINAGE DURING CONSTRUCTION.
- CONTRACTOR SHALL KEEP ALL AREAS CLEAN, NEAT AND ORDERLY AT ALL TIMES.
- CONTRACTOR SHALL PROTECT EXISTING VEGETATION OUTSIDE THE LIMITS OF GRADING. ALL EXISTING PARKWAY TREES AND EXISTING INTERIOR TREES SHALL BE PROTECTED WHILE PROJECT IS UNDER CONSTRUCTION AND SHALL BE REPLACED IF DAMAGED BY CONTRACTOR.
- CONTRACTOR SHALL INFORM A/E AS EACH PHASE OF WORK IS UNDERTAKEN.
- SLOPE ALL PLANTING AREAS AWAY FROM BUILDING AT 2% MINIMUM GRADE.
- FINISH GRADE SHALL BE 4" MINIMUM BELOW BUILDING FINISH FLOOR ELEVATION (ADJACENT TO BUILDING SLABS). ALL AREAS SHALL BE RECEIVED BY CONTRACTOR AT +/- 0.1 FOOT TO FINISH GRADE.
- FINISH GRADE SHALL BE 1" BELOW FINISH PAVING SURFACE IN LAWN AREAS AND 2" IN PLANTING AREAS.
- PLANT QUANTITIES SHOWN ON DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL PROVIDE PLANT MATERIALS SUFFICIENT TO COVER AREAS SHOWN ON PLANS AT THE SPACINGS INDICATED.
- AT LEAST ONE PLANT OF EACH SPECIES DELIVERED TO THE SITE WILL HAVE AN IDENTIFICATION TAG FROM THE SUPPLYING NURSERY SHOWING COMMON AND BOTANICAL PLANT NAMES. ALL PLANTS SHALL BE PROTECTED AGAINST HEAT, SUN, WIND AND FROST DURING TRANSPORTATION TO THE SITE AND WHILE BEING HELD AT THE SITE. DO NOT STORE PLANTS IN TOTAL DARKNESS MORE THAN ONE DAY.
- DO NOT DAMAGE PLANT ROOT BALL DURING TRANSPORTATION OR PLANTING.
- CONTRACTOR SHALL NOTIFY THE A/E AT THE TIME OF DELIVERY OF ANY PLANT MATERIAL THAT IS DAMAGED OR IN POOR CONDITION TO DETERMINE ACCEPTABILITY.
- ALL TREES SHALL BE SINGLE TRUNK STANDARDS UNLESS OTHERWISE NOTED.
- ALL ROCK AND DEBRIS 1" AND LARGER SHALL BE REMOVED FROM PLANTING AREAS AND THEN LEGALLY DISPOSED OF OFF SITE. ALL EXCESS MATERIALS RESULTING FROM CONTRACT WORK SHALL BE LEGALLY DISPOSED OF OFF SITE BY CONTRACTOR.
- A/E RESERVES THE RIGHT TO INSPECT ALL PLANT MATERIALS BEFORE PLANTING. MATERIAL MAY BE REJECTED AT ANY TIME DUE TO CONDITION, FORM OR DAMAGE BEFORE OR AFTER PLANTING. CONTRACTOR SHALL STAKE LOCATION OF ALL TREES, HEDGE LINES AND PLANTING BEDS AND HAVE LAYOUT APPROVED BY A/E PRIOR TO PLANTING.
- THE PLANTING PLANS ARE DIAGRAMMATIC. PLANT MATERIALS SHALL BE SPOTTED APPROXIMATELY AS SHOWN ON THE LANDSCAPE DRAWING AND ARE TO BE APPROVED BY THE A/E BEFORE BEING REMOVED FROM CONTAINERS AND EXCAVATING SOIL FOR PLANTING.
- INSTALL ALL PLANT MATERIAL IN ACCORDANCE WITH DETAILS. ALL FINISH GRADING AND PLANTING OPERATIONS SHALL BE CARRIED OUT IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- ALL PLANT TYING MATERIAL AND MARKING TAPES SHALL BE REMOVED AT THE TIME OF PLANTING.
- PROVIDE NEW TOPSOIL THAT IS FERTILE, FRIABLE AND NATURAL LOAM SURFACE SOIL, REASONABLY FREE OF SUBSOIL, CLAY, CLAY LUMPS, BRUSH, WEEDS, AND OTHER LITTER AND FREE OF ROOTS, STUMPS, STONES LARGER THAN 2" IN ANY DIMENSION AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. OBTAIN TOPSOIL FROM LOCAL SOURCES OR FROM AREAS HAVING SIMILAR SOIL CHARACTERISTICS TO THAT NECESSARY FOR VIGOROUS GROWTH OF SPECIFIED PLANTINGS. OBTAIN TOPSOIL THAT OCCURS IN A DEPTH OF NOT LESS THAN 6". DO NOT OBTAIN SOIL FROM BOGS OR MARSHES.
- MIX SPECIFIED SOIL AMENDMENTS AND FERTILIZERS WITH TOPSOIL ON A SITE SPECIFIC BASIS AT RATES APPROPRIATE FOR AREA TREES AND SHRUBS IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- CONTRACTOR SHALL INSTALL A MIN 3" LAYER OF HARDWOOD BARK MULCH (SEE SPECS.) AROUND ALL TREES AND IN ALL GROUNDCOVER / SHRUB AREAS. CREATE A NATURAL SPADED EDGE WHERE PLANTING BEDS MEET TURF AREAS.
- WATER ALL PLANTS IMMEDIATELY AFTER PLANTING. FLOOD PLANTS TWICE DURING FIRST TWENTY-FOUR HOUR PERIOD OF PLANTING.
- CONTRACTOR SHALL REPAIR TO ITS ORIGINAL CONDITION ANY AREA OR ITEM DAMAGED AS A RESULT OF THEIR WORK. ANY EXISTING LANDSCAPE INDICATED ON THE PLANS THAT IS DAMAGED OR REMOVED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPAIRED AND/OR REPLACED IN KIND AND EQUIVALENT SIZE. CONTRACTOR SHALL REPAIR AND SOD IN KIND ALL TURF AREAS DAMAGED AS A RESULT OF PROJECT CONSTRUCTION.
- CONTRACTOR TO GUY AND STAKE TREES, IF REQUIRED, AS DIRECTED BY A/E, IMMEDIATELY AFTER PLANTING. PROVIDE A MINIMUM OF TWO GUY WIRES PER TREE ON THE UPHILL SIDE OF TREES PLANTED ON SLOPES STEEPER THAN 3:1.
- PROVIDE WIRE TIES AND GUYS OF 2-STRAND, TWISTED, PLIABLE GALVANIZED IRON WIRE, NOT LIGHTER THAN 12 GAGE WITH ZINC-COATED TURNBUCKLES. PROVIDED NOT LESS THAN 1/2" DIAMETER RUBBER OR PLASTIC HOSE, CUT TO REQUIRED LENGTHS AND OF UNIFORM COLOR, MATERIAL, AND SIZE TO PROTECT TREE TRUNKS FROM DAMAGE BY WIRES.
- CONTRACTOR TO WARRANTY ALL TREES AND SHRUBS AGAINST DEATH AND DEFECTS INCLUDING UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM NEGLECT BY OWNER, ABUSE OR DAMAGE BY OTHERS OR UNUSUAL PHENOMENON OR INCIDENTS WHICH ARE BEYOND THE CONTRACTOR'S CONTROL (SEE SPECS).
- PROTECT SEEDED AREAS AND SLOPES AGAINST EROSION AND SEED LOSS DUE TO BIRDS AND OTHER WILDLIFE BY APPLYING SHORT TERM, BIODEGRADABLE EROSION CONTROL BLANKETS, MATS, AND/OR NETTING AFTER COMPLETION OF SEEDING OPERATIONS. ADHERE TO MANUFACTURER'S SPECIFICATIONS FOR REQUIRED PLACEMENT AND STAKING.
- REMOVE AGGREGATE FILL TO AN ADEQUATE DEPTH TO ENSURE THAT NO PART OF THE PLANT MATERIAL IS IN CONTACT OR AFFECTED BY THE LIME IN THE AGGREGATE FILL AS APPROVED BY A/E.

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		DRAWN — JR	REVISED —
	PLOT SCALE = AS SHOWN	CHECKED — BM	REVISED —
	PLOT DATE = 2/4/2013	DATE — 03/13/13	REVISED —

## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

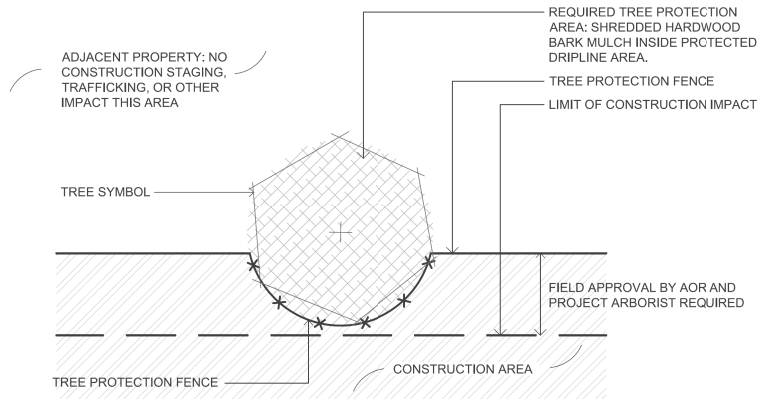
## LANDSCAPING DETAILS II

SCALE: AS SHOWN SHEET NO. 12 OF 15 SHEETS STA. BEGIN TO STA. 89+50.00

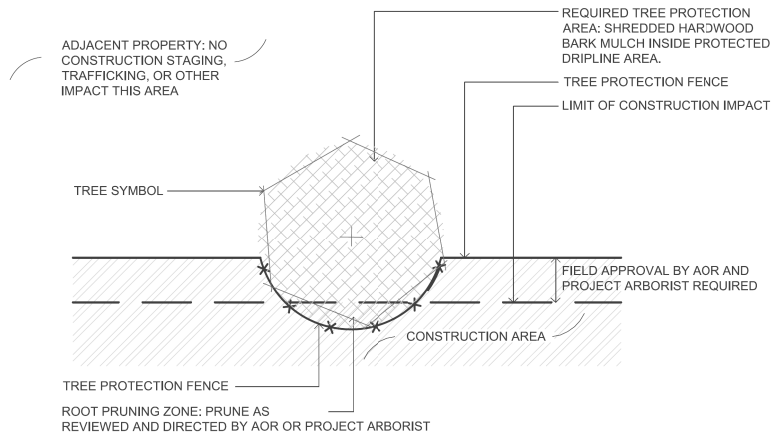
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	436
LA-12		CONTRACT NO. 60F05		
ILLINOIS		FED. AID PROJECT		

PLANT SCHEDULE						
DECIDUOUS TREES						
CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
CO	28	Celtis occidentalis	Northern Hackberry	2 1/2" cal.	B&B	matching heads
GD	37	Gymnocladus dioicus	Kentuck Coffee Tree	2 1/2" cal.	B&B	matching heads
LT	15	Liliodendron Tulipferia	Tulip Tree	2 1/2" cal.	B&B	matching heads
QB	22	Quercus bicolor	Swamp White Oak	2 1/2" cal.	B&B	matching heads
QM	35	Quercus muehlenbergii	Chinkapin Oak	2 1/2" cal.	B&B	matching heads
QI	37	Quercus imbricaria	Shingle Oak	2 1/2" cal.	B&B	matching heads
TC	18	Tilia cordata	Little leaf Linden	2 1/2" cal.	B&B	matching heads
ORNAMENTAL TREES						
CV	44	Crataegus viridis 'Winter King'	Winter King Hawthorn	8' H	B&B	medium
CV-S	17	Crataegus viridis 'Winter King'	Winter King Hawthorn	2 1/2" cal.	B&B	matching heads
OV	4	Ostrya virginiana	American Hophornbeam	2 1/2" cal.	B&B	matching heads
PV	86	Prunus virginiana 'Canada Red'	Canada Red Cherry	2 1/2" cal.	B&B	matching heads
DECIDUOUS SHRUBS						
CD	24	Cornus racemosa	Grey Dogwood	3' H	B&B	48" o.c.
HK	728	Hypericum kalmianum 'Ames'	St. Johnswort	18" H	pot	30" o.c.
JV.BM	52	Juniper virginiana 'Blue Mountain'	'Blue Montain' Juniper	5 gal.	pot	42" o.c.
PO	124	Physocarpus opulifolius 'Monlo'	Diabie Ninebark	3' H	B&B	40" o.c.
RA	850	Rhus aromatic 'Gro Low'	Grow Low Sumac	2' W	pot	30" o.c.
RO.C	107	Rosa x 'Noelesa' P.P.# 13869	Flower Carpet Yellow Rose	3 gal.	pot	30" o.c.
RO.R	78	Rosa 'Radrazz'	Knock Out Red Rose	3 gal.	pot	36" o.c.
RO.W	80	Rosa JACrumhi	Wild Spice White Rose	3 gal.	pot	36" o.c.
RO.Y	80	Rosa BALine	Easy Elegance Yellow Submarine Rosa	3 gal.	pot	36" o.c.
SP.TR	620	Spirea 'Tor'	Birchleaf Tor Spirea	2' H	pot	30" o.c.
TM	63	Taxus x media 'Densiformis'	Dense Spreading Yew	3' W	B&B	30" o.c.
VB.D	5	Viburnum dentatum	Arrowwood Dogwood	3' H	B&B	48" o.c.
VB.J	6	Viburnum nudum 'Winterthur'	Winterthur Viburnum	48" H	B&B	60" o.c.
PERENNIAL, ORNAMENTAL GRASSES, VINES AND OTHER						
A.BF	688	Agastache 'Blue Fortune'	Blue Fortune Agastache	15" gal.	pot	per plan
CJ	35	Clematis x 'Jackmanii'	Jackman Clematis	gal.	pot	per plan
CR.P	474	Crocus purple	Purple Crocus	8 cm	pot	15" interpolated
CR.Y	472	Crocus Yellow	Yellow Crocus	8 cm	pot	15" interpolated
CV.Z	472	Coreopsis Verticillata Zagreb.	Zagreb coreopsis	15" gal.	pot	per plan
HE.CA	133	Hemerocallis 'Chicago Apache'	Chicago Apache Daylily	gal.	pot	15" o.c.
HE.RR	18	Hemerocallis 'Rosy Returns'	Rosy Return Pink Daylily	gal.	pot	15" o.c.
HE.SO	115	Hemerocallis 'Stella d' Oro'	Stella d' Oro Yellow Daylily	gal.	pot	15" o.c.
LS.W	190	Liatris spicata 'White'	White Blazing Star	gal.	pot	15" o.c.
MC	960	Molinia caerulea 'Moorflamme'	Moorflamme Purple Moore Grass	gal.	pot	18" o.c.
MD.M	227	Monarda didyma 'Marshalls Delight'	Marshalls Delight Monarda	gal	pot	15" o.c.
P.T	35	Parthenocissus tricuspidata	Boston Ivy	gal	pot	per plan
PE.LS	722	Perovskia atriplicifolia 'Little Spire'	Little Spire Russian sage	gal	pot	15" o.c.
PA	88	Pennisetum alopecuroides	Fountain Grass	gal.	pot	30" o.c.
PA.H	71	Pennisetum alopecuroides 'Hamlin'	Hamlin Dwarf Fountain Grass	gal.	pot	24" o.c.
PA.LB	235	Pennisetum alopecuroides 'Little Bunny'	Little Bunny Fountain Grass	gal.	pot	18" o.c.
PV.S	334	Panicum virgatum 'Shenandoah'	Shenandoah Switch Grass	gal.	pot	30" o.c.
SA	92	Seslaria autumnalis	Autumn Moor Grass	3 gal.	Pot	30" o.c.
S.MN	474	Salvia 'May Night'	'May Night' Salvia	15" gal.	Pot	per plan
SS	192	Schizachyrium scoparium	Little Bluestem	3 gal.	Pot	30" o.c.
SS.CA	548	Schizachyrium scoparium 'Carousel'	Carousel Little Bluestem	3 gal.	Pot	24" o.c.
T.R	476	Red Impression Tulip / Darwin Hybrid	Red Impression Tulip	12+ cm	bulb	15" interpolated
SOD	4382	IDOT salt tolerant sod mix	Sod	sq yd	roll	

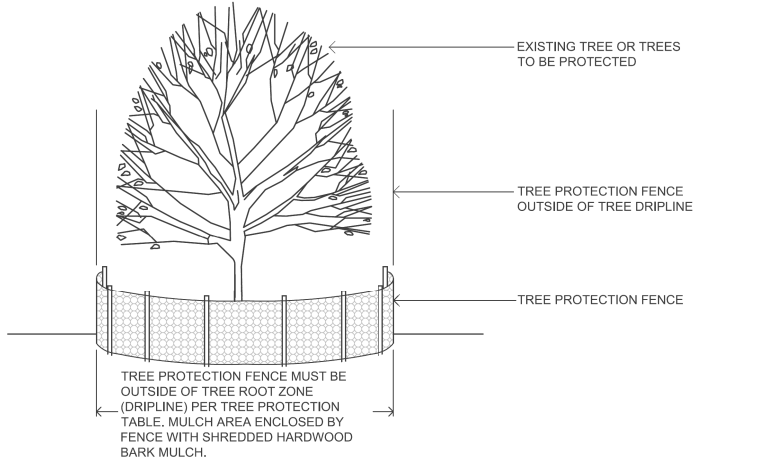
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		DRAWN — JR	REVISED —							330	103R-3	COOK	932	437
	PLOT SCALE = AS SHOWN	CHECKED — BM	REVISED —		LA-13					CONTRACT NO. 60F05				
	PLOT DATE = 2/4/2013	DATE — 03/13/13	REVISED —		SCALE: AS SHOWN	SHEET NO. 13 OF 15 SHEETS	STA. BEGIN	TO STA. 89+50.00						
										ILLINOIS FED. AID PROJECT				



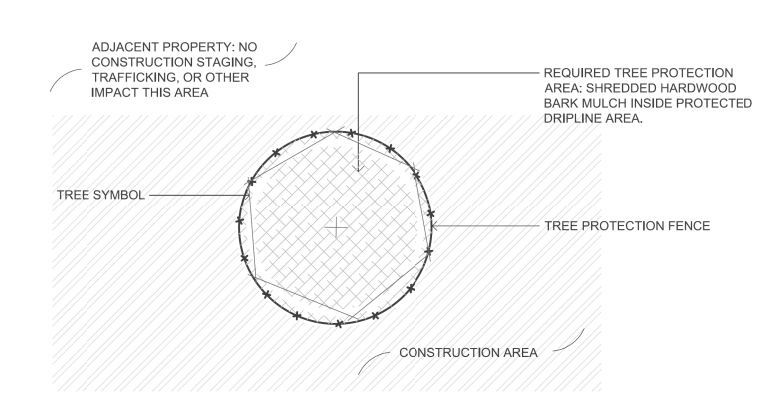
1A TREE PROTECTION FENCE INTERSECTS PROJECT AREA  
NO ROOT PRUNING REQUIRED PLAN  
NOT TO SCALE



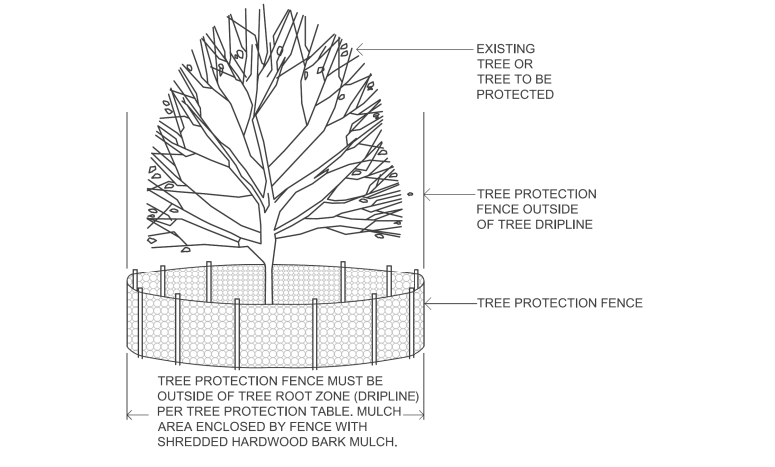
1B TREE PROTECTION FENCE INTERSECTS PROJECT AREA  
ROOT PRUNING REQUIRED PLAN  
NOT TO SCALE



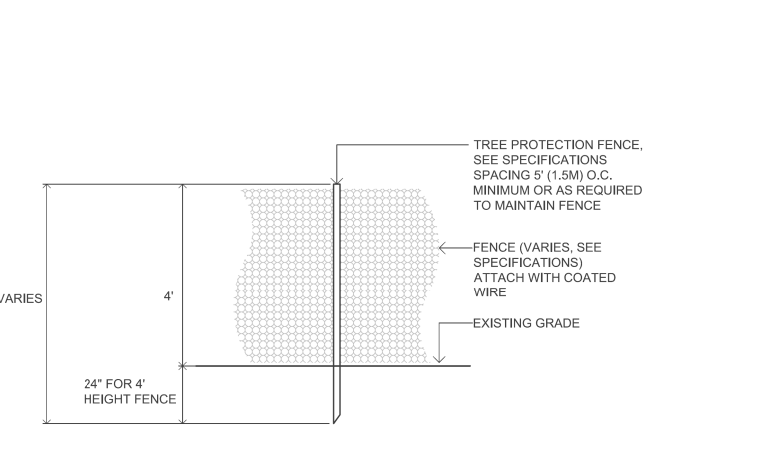
1C TREE PROTECTION FENCE INTERSECTS PROJECT AREA  
NO ROOT PRUNING REQUIRED ELEVATION  
NOT TO SCALE



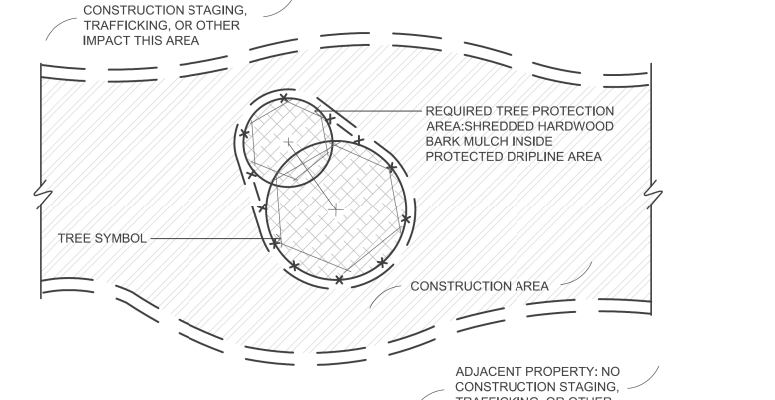
2A TREE PROTECTION ENTIRELY WITHIN CONSTRUCTION AREA PLAN  
NOT TO SCALE



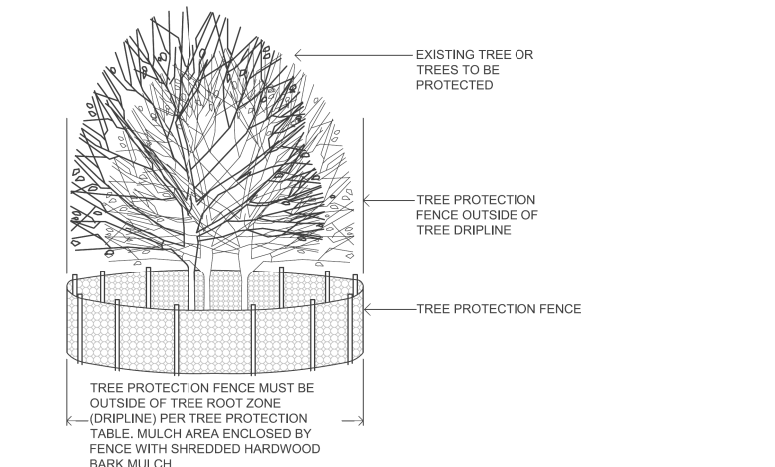
2B TREE PROTECTION ENTIRELY WITHIN CONSTRUCTION AREA ELEVATION  
NOT TO SCALE



4 TREE PROTECTION FENCE  
NOT TO SCALE



3A GROUP TREE PROTECTION ENTIRELY WITHIN CONSTRUCTION AREA PLAN  
NOT TO SCALE



3B GROUP TREE PROTECTION ENTIRELY WITHIN CONSTRUCTION AREA ELEVATION  
NOT TO SCALE

TREE PROTECTION	FLAG TAPE COLOR	MEASURED TREE CALIPER	RADIUS OF TREE PROTECTION FENCE AT EDGE OF DRIPLINE	MULCH RADIUS UNDER ENTIRE DRIPLINE
ADJACENT PROPERTY	NONE	VARIES	NONE, TREE PROTECTED BY TREE PROTECTION FENCE AT PROTECTION LIMITS	NONE
TREE WITH TREE PROTECTION FENCE	GREEN	0 CM-20.3 CM (0"-8")	MINIMUM 2.44M (8') OR AS APPROVED BY AOR OR PROJECT ARBORIST	YES
TREE WITH TREE PROTECTION FENCE	GREEN	>20.3 CM-63.5 CM (>8"-25")	0.3048M (1") RADIUS FENCE FOR EACH 2.54CM (1") CALIPER OR AS APPROVED BY AOR OR PROJECT ARBORIST	YES
TREE WITH TREE PROTECTION FENCE	GREEN	>63.5 CM (>25")	MINIMUM 2.44M (8') OR AS APPROVED BY AOR OR PROJECT ARBORIST	YES
TREE WITH TREE PROTECTION FENCE, ROOTPRUNED	GREEN & YELLOW	0 CM-20.3 CM (0"-8")	MINIMUM 2.44M (8') OR AS APPROVED BY AOR OR PROJECT ARBORIST	YES
TRFF WITH TRFF PROTECTION FENCE, ROOTPRUNED	GREEN & YELLOW	>20.3 CM-63.5 CM (>8"-25")	0.3048M (1") RADIUS FENCE FOR EACH 2.54CM (1") CALIPER OR AS APPROVED BY AOT OR PROJECT ARBORIST	YES
TREE WITH TREE PROTECTION FENCE, ROOTPRUNED	GREEN & YELLOW	>63.5 CM (>25")	MINIMUM 2.44M (8') OR AS APPROVED BY AOR OR PROJECT ARBORIST	YES
TREE TO BE RELOCATED	BLUE	0 CM-20.3 CM (0"-8")	NONE, TREE PROTECTED BY TREE PROTECTION FENCE AT PROTECTION LIMITS	YES, IF PROTECTED
TREE TO BE REMOVED	RED	NONE	TREES MUST BE REMOVED PRIOR TO START OF CONSTRUCTION	NONE

5 TREE PROTECTION NOTES AND TABLE  
NOT TO SCALE

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		DRAWN = JR	REVISED =
	PLOT SCALE = AS SHOWN	CHECKED = BM	REVISED =
	PLOT DATE = 2/4/2013	DATE = 03/13/13	REVISED =

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
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TREE PROTECTION DETAILS			
SCALE: AS SHOWN	SHEET NO. 14 OF 15 SHEETS	STA. BEGIN	TO STA. 89+50.00

F.A.P. RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 438
LA-14		CONTRACT NO. 60F05		
ILLINOIS FED. AID PROJECT				

MATCHLINE STA. 913+00

MATCHLINE STA. 41+00

MATCHLINE STA. 913+00

PI Sta 912+00.46

### LEGEND

- HUNTER PROS-12-PRS30-CV 12" SPRAY HEAD; FULL CIRCLE PRO SPRAY NOZZLES - NOZZLE RADIUS VARIES
- ◐ HUNTER PROS-12-PRS30-CV 12" SPRAY HEAD; PART CIRCLE PRO SPRAY NOZZLES - NOZZLE RADIUS VARIES
- ⊗ HUNTER PROS-04-PRS30-CV 4" SPRAY HEAD; PART CIRCLE HUNTER PRO SPRAY NOZZLES- NOZZLE RADIUS VARIES

- ▼ HUNTER 1" HQ-44RCAW SERIES QUICK COUPLER

- CL 200 PVC PIPE - 2" & 1.5" MAINLINE

- 1" PE HD100 PIPE

①②

- BASELINE 3200 STAINLESS STEEL PEDESTAL, DC CONTROLLER CONTROLLER TO HAVE SOLAR PANEL BL-DC-85WPANEL MOUNTED ON A 3" GALVANIZED POLE WITH CAP. COORDINATE WITH OWNER FOR MOUNTING LOCATION, INSTALL AND GROUND TO MANUFACTURER'S RECOMMENDATIONS AND DETAILS. USE BL-5201DC BICODERS. PROVIDE AND INSTALL A BISENSOR. PROVIDE & INSTALL A RAINCLIK SENSOR TO WORK WITH THE CONTROLLER. PROVIDE AND INSTALL A TRC COMMAND RECEIVER ON THE PEDESTAL & HANDHELD TRANSMITTER. BL-CMDR & BL-3200T-P. INSTALL ENCLOSURE PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO VERIFY ENCLOSURE SIZE.

- Ⓢ BASELINE SOIL SENSOR BI-5315B; ONE PER CONTROLLER

- ⌵ 2" ISOLATION GATE VALVE

- ⓐ GROUNDING PER DETAIL. PROVIDE A BASELINE SURGE ARRESTOR AT EACH GROUNDING LOCATION AND INSTALL PER MANUFACTURES RECOMMENDATIONS.

- ⊕ HUNTER PGV-101G-DC ELECTRIC VALVES VALVES TO HAVE DC LATCHING SOLENOID.

- ⓂV BASELINE 1.5" BHM SERIES HYDROMETER; COMBINATION MASTER VALVE AND FLOW SENSOR. NORMALLY OPEN CONFIGURATION, ADJUST FLOW LIMITS IN CONTROLLER.

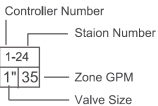
- Ⓜ WATERTRONICS WATERPAK 3- 3HP VFD STATION MOUNT PUMP ON CONCRETE SLAB

- ⊠ 1.5" BLOW OUT TAP WITH PLUG

- ⌵ 1.5" RPZ BACKFLOW PREVENTER AND METER - PROVIDED BY THIS CONTRACTOR RPZ TO BE LOCATED IN AN ENCLOSURE. COLOR AND STYLE TO BE APPROVED. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE BACKFLOW/METER FITS IN THE ENCLOSURE. INSTALL PER MANUFACTURES RECOMMENDATIONS.

- △ 1.5" POINT OF CONNECTION - COORDINATE WITH OWNER & GENERAL CONTRACTOR IRRIGATION TAPS VARY. FOLLOW STATE AND LOCAL CODES FROM TAP THROUGH BACKFLOW PREVENTOR, METER AND SYSTEM.

- 2" PIPE SIZE



### GENERAL IRRIGATION NOTES

- CONTACT ALL UTILITIES AND GENERAL CONTRACTOR AT LEAST 5 DAYS PRIOR TO THE START OF CONSTRUCTION.
- MAINTAIN ALL CODES REQUIRED BY STATE AND LOCAL AUTHORITIES.
- COORDINATE ELECTRICAL HOOKUP WITH GENERAL CONTRACTOR, ELECTRICIAN AND OWNER THE CONTROLLER WILL BE A STAND ALONE MOUNT WITH ELECTRICAL BROUGHT TO THE CONTROLLER LOCATION THE IRRIGATION CONTRACTOR WILL BE RESPONSIBLE FOR CONNECTIONS FROM THE POWER DROP TO THE CONTROLLER.
- COORDINATE ALL SLEEVES AND PENETRATIONS WITH GENERAL CONTRACTOR IRRIGATION CONTRACTOR IS RESPONSIBLE FOR BORES, SLEEVES OR PENETRATIONS RELATED TO THE IRRIGATION
- IRRIGATION HEADS AND LINES ARE SCHEMATIC - MINOR FIELD ADJUSTMENTS MAY BE REQUIRED
- INSTALL ALL PIPING AND FITTINGS USING GLUE METHODS CONSISTANT WITH MANUFACTURER'S RECOMMENDATIONS
- MAINLINE PIPING SHALL BE INSTALLED AT MINIMUM OF 12" LATERAL LINES SHALL BE INSTALLED AT A MINIMUM DEPTH OF 12"
- CAP OR PLUG ALL OPENINGS AS SOON AS LINES ARE INSTALLED TO PREVENT DEBRIS IN THE LINE. THOROUGHLY FLUSH ALL LINES PRIOR TO THE OPERATION OF SPRINKLER HEADS.
- INSTALL WIRES A MIN. OF 10" BELOW GRADE.
  - SPICES ARE NOT ALLOWED IN THE TRENCH
  - PROVIDE A 24" EXPANSION LOOP AT EACH CHANGE IN DIRECTION.
  - 5 FEET OF EXCESS DECODER WIRE IS TO BE AT EACH DECODER LOCATION FOR EASE OF ACCESS.
- THE IRRIGATION SYSTEM SHALL BE TESTED AT OPERATING PRESSURE FOR A MINIMUM OF 4 HOURS. REPAIR ALL LEAKS AND RETEST AFTER CURING.
- UPON COMPLETION OF TEST, COMPLETE ASSEMBLY OF ALL EQUIPMENT AND SPRINKLERS FOR PROPER DISTRIBUTION.
- PROVIDE 'AS BUILT' DRAWINGS SHOWING ALL COMPONENTS OF THE SYTEM PRIOR TO FINAL PAYMENT. PROVIDE FINAL GPM OF ZONES, WIRE RUNS, HEADS, VALVES, PIPE SIZES ETC...
- ALL GASKETED PRESSURE PIPE AND FITTINGS SHALL BE THRUST BLOCKED. NO CONCRETE PREFORMED BLOCKS WILL BE ALLOWED.
- ALL EXISTING UTILITIES WHICH ARE NOT SHOWN ON THESE DOCUMENTS WHICH NEED TO BE REMOVED, RELOCATED AND/OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR
- ALL BIDDERS SHALL VISIT AND REVIEW THE SITE AND FAMILIAR THEMSELVES WITH THE SITE THE SITE PRIOR TO SUBMITTING A BID.
- CONTRACTOR TO PROVIDE BLOW OUT TAP AFTER RPZ UNIT
- CONTRACTOR IS RESPONSIBLE FOR SUBMITTING AND ACQUIRING ALL PERMITS
- PRIOR TO INSTALLATION, FIELD TEST THE SYSTEM PRESSURE AT THE POINT OF CONNECTION THE SYSTEM IS BASED ON GPM AND PRESSURE FURNISHED BY OTHERS. CONTRACTOR IS RESPONSIBLE TO VERIFY PRESSURE IS AT LEAST 30 STATIC PSI AND NOTIFY OWNER IF PRESSURE IS LOWER.
- DRAWING IS SCHEMATIC, FIELD ADJUSTMENTS MAY BE NEEDED. LOCATE ALL MAIN LINES AND LATERAL LINES IN TURF OR PLANTING AREAS. COMPONENTS ARE DRAWN OUTSIDE OF AREAS FOR EASE OF READING.
- CONTRACTOR IS REPSONSIBLE FOR FINAL HEAD PLACEMENT AND NOZZLES SELECTION TO ENSURE THAT THE SPRINKLER SPRAY DOES NOT REACH THE STREET.

FILE NAME =  
LaGrangeIRR\_020413.dwg

USER NAME = jrossman

DESIGNED — AB

DRAWN — JR

PLOT SCALE = AS SHOWN

PLOT DATE = 11/26/2012

CHECKED — BM

DATE — 03/13/13

REVISED —

REVISED —

REVISED —

REVISED —

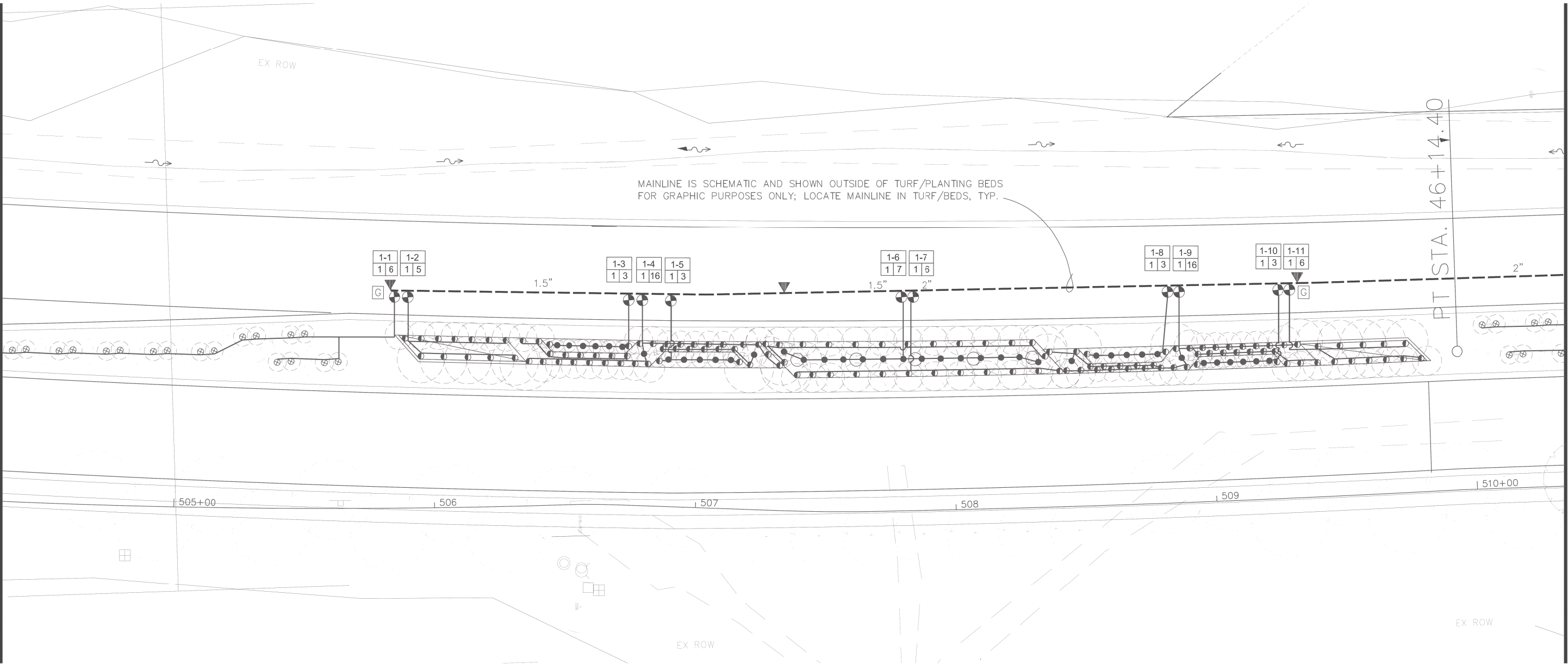
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IRRIGATION PLAN  
US 45 (LAGRANGE ROAD)

SCALE: AS SHOWN SHEET NO. 1 OF 12 SHEETS STA. BEGIN TO STA. 41+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	439
IR-01		CONTRACT NO. 60F05		
ILLINOIS		FED. AID PROJECT		

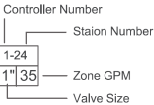
MATCHLINE STA. 41+00



MATCHLINE STA. 47+00

LEGEND

- HUNTER PROS-12-PRS30-CV 12" SPRAY HEAD; FULL CIRCLE PRO SPRAY NOZZLES - NOZZLE RADIUS VARIES
- ◐ HUNTER PROS-12-PRS30-CV 12" SPRAY HEAD; PART CIRCLE PRO SPRAY NOZZLES - NOZZLE RADIUS VARIES
- ⊗ HUNTER PROS-04-PRS30-CV 4" SPRAY HEAD; PART CIRCLE HUNTER PRO SPRAY NOZZLES- NOZZLE RADIUS VARIES
- ▼ HUNTER 1" HQ-44RCAW SERIES QUICK COUPLER
- CL 200 PVC PIPE - 2" & 1.5" MAINLINE
- 1" PE HD100 PIPE
- ① ② BASELINE 3200 STAINLESS STEEL PEDESTAL, DC CONTROLLER CONTROLLER TO HAVE SOLAR PANEL BL-DC-85WPANEL MOUNTED ON A 3" GALVANIZED POLE WITH CAP. COORDINATE WITH OWNER FOR MOUNTING LOCATION, INSTALL AND GROUND TO MANUFACTURER'S RECOMMENDATIONS AND DETAILS. USE BL-5201DC BICODERS. PROVIDE AND INSTALL A BISENSOR, PROVIDE & INSTALL A RAINCLIK SENSOR TO WORK WITH THE CONTROLLER, PROVIDE AND INSTALL A TRC COMMAND RECEIVER ON THE PEDESTAL & HANDHELD TRANSMITTER, BL-CMDR & BL-3200T-P. INSTALL ENCLOSURE PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO VERIFY ENCLOSURE SIZE.
- Ⓢ BASELINE SOIL SENSOR BI-5315B; ONE PER CONTROLLER
- ✕ 2" ISOLATION GATE VALVE
- ⓖ GROUNDING PER DETAIL. PROVIDE A BASELINE SURGE ARRESTOR AT EACH GROUNDING LOCATION AND INSTALL PER MANUFACTURES RECOMMENDATIONS.
- ⦿ HUNTER PGV-101G-DC ELECTRIC VALVES VALVES TO HAVE DC LATCHING SOLENOID.
- ⓂV BASELINE 1.5" BHM SERIES HYDROMETER; COMBINATION MASTER VALVE AND FLOW SENSOR. NORMALLY OPEN CONFIGURATION, ADJUST FLOW LIMITS IN CONTROLLER.
- Ⓟ WATERTRONICS WATERPAK 3- 3HP VFD STATION MOUNT PUMP ON CONCRETE SLAB
- ⊠ 1.5" BLOW OUT TAP WITH PLUG
- ⊠ 1.5" RPZ BACKFLOW PREVENTER AND METER - PROVIDED BY THIS CONTRACTOR RPZ TO BE LOCATED IN AN ENCLOSURE. COLOR AND STYLE TO BE APPROVED. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE BACKFLOW/METER FITS IN THE ENCLOSURE. INSTALL PER MANUFACTURES RECOMMENDATIONS.
- △ 1.5" POINT OF CONNECTION - COORDINATE WITH OWNER & GENERAL CONTRACTOR IRRIGATION TAPS VARY. FOLLOW STATE AND LOCAL CODES FROM TAP THROUGH BACKFLOW PREVENTOR, METER AND SYSTEM.
- 2" PIPE SIZE



FILE NAME =	USER NAME = jrossman	DESIGNED — AB	REVISED —
LaGrangeIRR_020413.dwg		DRAWN — JR	REVISED —
	PLOT SCALE = AS SHOWN	CHECKED — BM	REVISED —
	PLOT DATE = 11/26/2012	DATE — 03/13/13	REVISED —

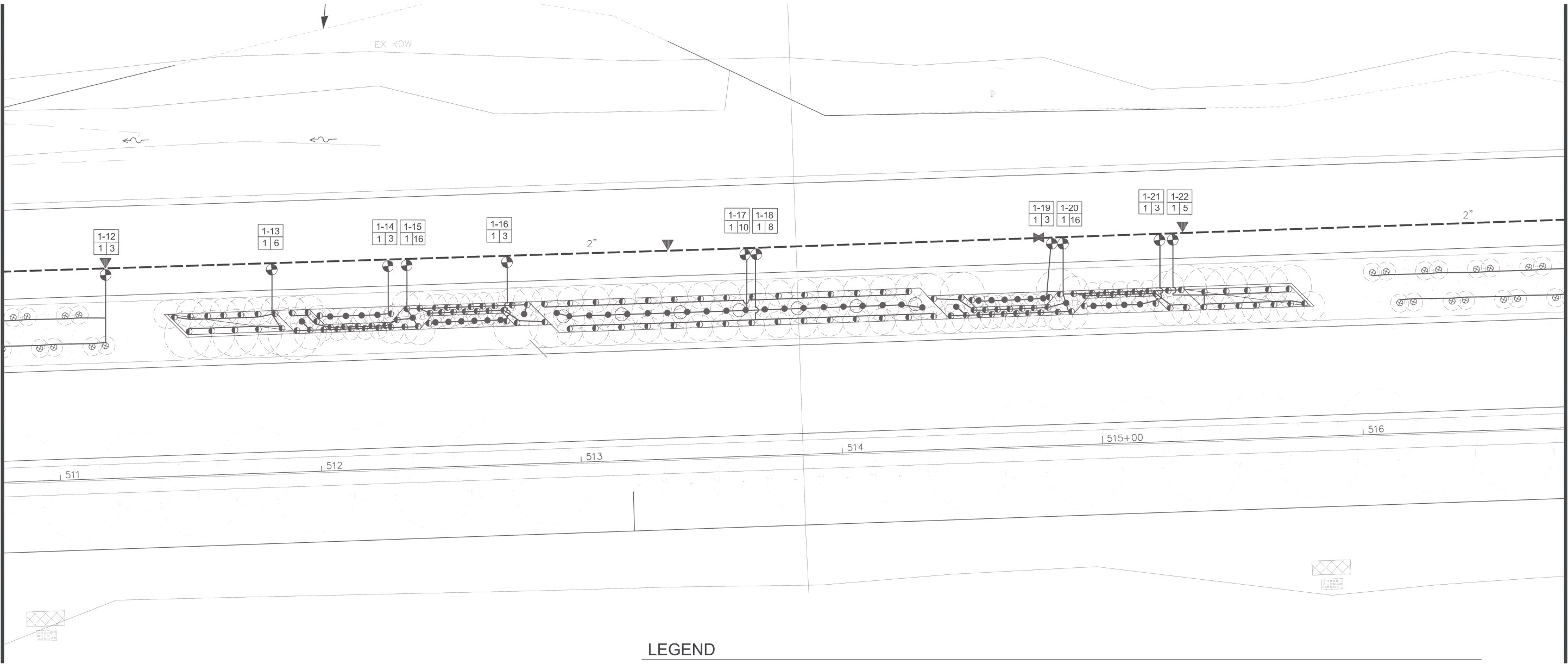
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IRRIGATION PLAN  
US 45 (LAGRANGE ROAD)

SCALE: AS SHOWN SHEET NO. 2 OF 12 SHEETS STA. 41+00.00 TO STA. 47+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	440
IR-02		CONTRACT NO. 60F05		
ILLINOIS		FED. AID PROJECT		

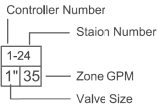
MATCHLINE STA. 47+00



MATCHLINE STA. 53+00

LEGEND

- HUNTER PROS-12-PRS30-CV 12" SPRAY HEAD; FULL CIRCLE PRO SPRAY NOZZLES - NOZZLE RADIUS VARIES
- ◐ HUNTER PROS-12-PRS30-CV 12" SPRAY HEAD; PART CIRCLE PRO SPRAY NOZZLES - NOZZLE RADIUS VARIES
- ⊗ HUNTER PROS-04-PRS30-CV 4" SPRAY HEAD; PART CIRCLE HUNTER PRO SPRAY NOZZLES- NOZZLE RADIUS VARIES
- ▼ HUNTER 1" HQ-44RCAW SERIES QUICK COUPLER
- CL 200 PVC PIPE - 2" & 1.5" MAINLINE
- 1" PE HD100 PIPE
- ① ② BASELINE 3200 STAINLESS STEEL PEDESTAL, DC CONTROLLER CONTROLLER TO HAVE SOLAR PANEL BL-DC-85WPANEL MOUNTED ON A 3" GALVANIZED POLE WITH CAP. COORDINATE WITH OWNER FOR MOUNTING LOCATION, INSTALL AND GROUND TO MANUFACTURER'S RECOMMENDATIONS AND DETAILS. USE BL-5201DC BICODERS. PROVIDE AND INSTALL A BISENSOR. PROVIDE & INSTALL A RAINCLIK SENSOR TO WORK WITH THE CONTROLLER. PROVIDE AND INSTALL A TRC COMMAND RECEIVER ON THE PEDESTAL & HANDHELD TRANSMITTER. BL-CMDR & BL-3200T-P. INSTALL ENCLOSURE PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO VERIFY ENCLOSURE SIZE.
- Ⓢ BASELINE SOIL SENSOR BI-5315B; ONE PER CONTROLLER
- ✕ 2" ISOLATION GATE VALVE
- ⓖ GROUNDING PER DETAIL. PROVIDE A BASELINE SURGE ARRESTOR AT EACH GROUNDING LOCATION AND INSTALL PER MANUFACTURES RECOMMENDATIONS.
- ⦿ HUNTER PGV-101G-DC ELECTRIC VALVES VALVES TO HAVE DC LATCHING SOLENOID.
- ⓂV BASELINE 1.5" BHM SERIES HYDROMETER; COMBINATION MASTER VALVE AND FLOW SENSOR. NORMALLY OPEN CONFIGURATION, ADJUST FLOW LIMITS IN CONTROLLER.
- Ⓜ WATERTRONICS WATERPAK 3- 3HP VFD STATION MOUNT PUMP ON CONCRETE SLAB
- ⊠ 1.5" BLOW OUT TAP WITH PLUG
- ⌵ 1.5" RPZ BACKFLOW PREVENTER AND METER - PROVIDED BY THIS CONTRACTOR RPZ TO BE LOCATED IN AN ENCLOSURE. COLOR AND STYLE TO BE APPROVED. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE BACKFLOW/METER FITS IN THE ENCLOSURE. INSTALL PER MANUFACTURES RECOMMENDATIONS.
- △ 1.5" POINT OF CONNECTION - COORDINATE WITH OWNER & GENERAL CONTRACTOR IRRIGATION TAPS VARY. FOLLOW STATE AND LOCAL CODES FROM TAP THROUGH BACKFLOW PREVENTOR, METER AND SYSTEM.
- 2" PIPE SIZE



FILE NAME =	USER NAME = jrossman	DESIGNED — AB	REVISED —
LaGrangeIR_020413.dwg		DRAWN — JR	REVISED —
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	PLOT DATE = 11/26/2012	DATE — 03/13/13	REVISED —

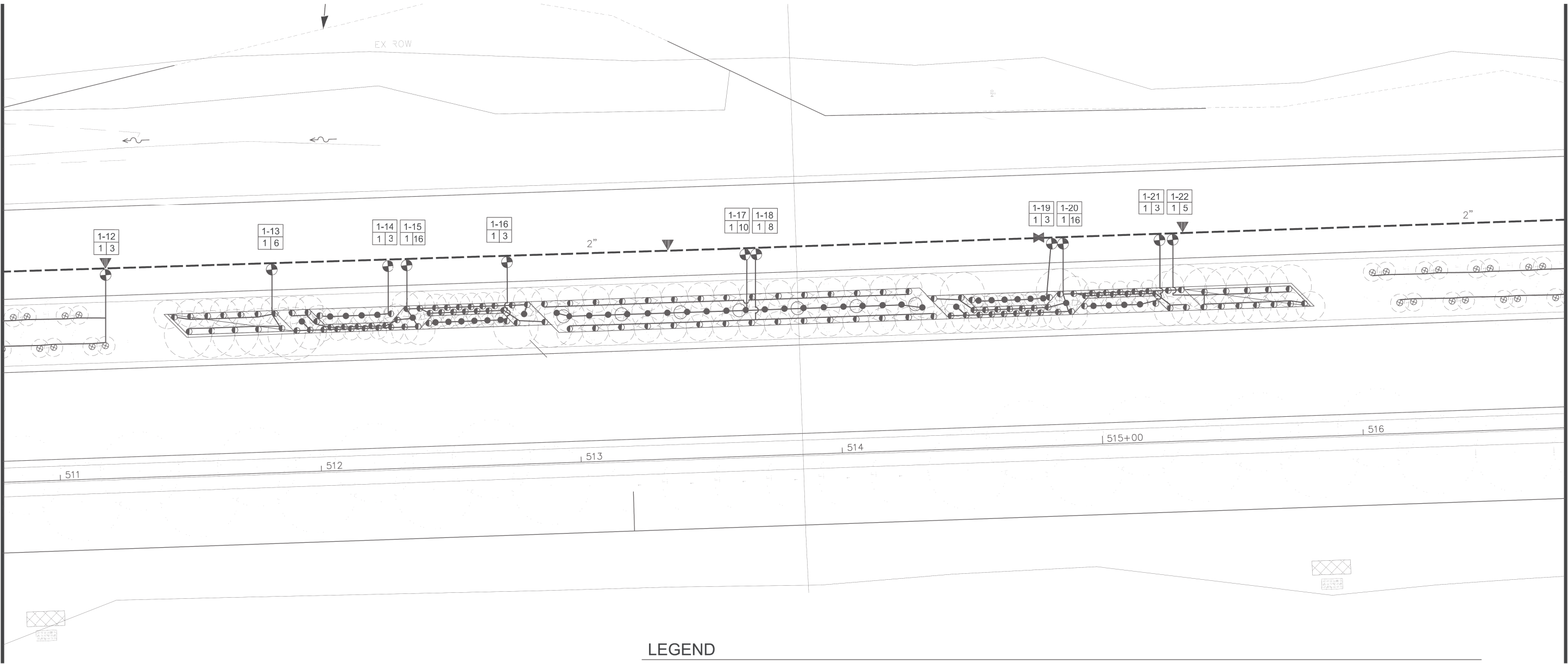
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IRRIGATION PLAN  
US 45 (LAGRANGE ROAD)

SCALE: AS SHOWN SHEET NO. 3 OF 12 SHEETS STA. 47+00.00 TO STA. 53+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	441
IR-03		CONTRACT NO. 60F05		
ILLINOIS		FED. AID PROJECT		

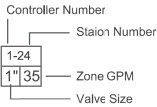
MATCHLINE STA. 47+00



MATCHLINE STA. 53+00

LEGEND

- HUNTER PROS-12-PRS30-CV 12" SPRAY HEAD; FULL CIRCLE PRO SPRAY NOZZLES - NOZZLE RADIUS VARIES
- ◐ HUNTER PROS-12-PRS30-CV 12" SPRAY HEAD; PART CIRCLE PRO SPRAY NOZZLES - NOZZLE RADIUS VARIES
- ⊗ HUNTER PROS-04-PRS30-CV 4" SPRAY HEAD; PART CIRCLE HUNTER PRO SPRAY NOZZLES- NOZZLE RADIUS VARIES
- ▼ HUNTER 1" HQ-44RCAW SERIES QUICK COUPLER
- CL 200 PVC PIPE - 2" & 1.5" MAINLINE
- 1" PE HD100 PIPE
- ① ② BASELINE 3200 STAINLESS STEEL PEDESTAL, DC CONTROLLER CONTROLLER TO HAVE SOLAR PANEL BL-DC-85WPANEL MOUNTED ON A 3" GALVANIZED POLE WITH CAP. COORDINATE WITH OWNER FOR MOUNTING LOCATION, INSTALL AND GROUND TO MANUFACTURER'S RECOMMENDATIONS AND DETAILS. USE BL-5201DC BICODERS. PROVIDE AND INSTALL A BISENSOR. PROVIDE & INSTALL A RAINCLIK SENSOR TO WORK WITH THE CONTROLLER. PROVIDE AND INSTALL A TRC COMMAND RECEIVER ON THE PEDESTAL & HANDHELD TRANSMITTER. BL-CMDR & BL-3200T-P. INSTALL ENCLOSURE PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO VERIFY ENCLOSURE SIZE.
- Ⓢ BASELINE SOIL SENSOR BI-5315B; ONE PER CONTROLLER
- ✕ 2" ISOLATION GATE VALVE
- ⓖ GROUNDING PER DETAIL. PROVIDE A BASELINE SURGE ARRESTOR AT EACH GROUNDING LOCATION AND INSTALL PER MANUFACTURES RECOMMENDATIONS.
- ⦿ HUNTER PGV-101G-DC ELECTRIC VALVES VALVES TO HAVE DC LATCHING SOLENOID.
- MV BASELINE 1.5" BHM SERIES HYDROMETER; COMBINATION MASTER VALVE AND FLOW SENSOR. NORMALLY OPEN CONFIGURATION, ADJUST FLOW LIMITS IN CONTROLLER.
- P WATERTRONICS WATERPAK 3- 3HP VFD STATION MOUNT PUMP ON CONCRETE SLAB
- ⊠ 1.5" BLOW OUT TAP WITH PLUG
- ⋈ 1.5" RPZ BACKFLOW PREVENTER AND METER - PROVIDED BY THIS CONTRACTOR RPZ TO BE LOCATED IN AN ENCLOSURE. COLOR AND STYLE TO BE APPROVED. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE BACKFLOW/METER FITS IN THE ENCLOSURE. INSTALL PER MANUFACTURES RECOMMENDATIONS.
- △ 1.5" POINT OF CONNECTION - COORDINATE WITH OWNER & GENERAL CONTRACTOR IRRIGATION TAPS VARY. FOLLOW STATE AND LOCAL CODES FROM TAP THROUGH BACKFLOW PREVENTOR, METER AND SYSTEM.
- 2" PIPE SIZE



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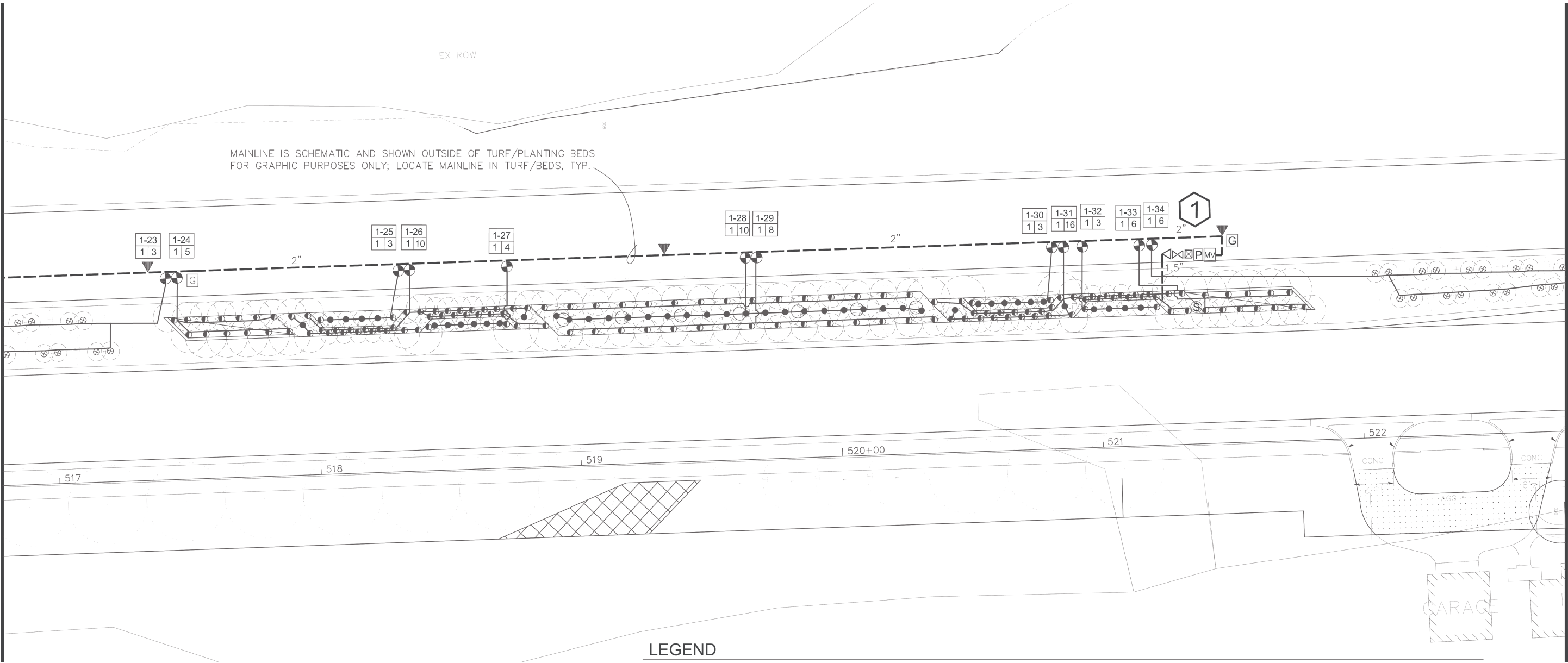
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IRRIGATION PLAN  
US 45 (LAGRANGE ROAD)

SCALE: AS SHOWN SHEET NO. 3 OF 12 SHEETS STA. 47+00.00 TO STA. 53+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	442
IR-03		CONTRACT NO. 60F05		
ILLINOIS		FED. AID PROJECT		

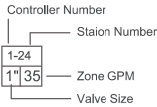
MATCHLINE STA. 53+00



MATCHLINE STA. 59+00

### LEGEND

- HUNTER PROS-12-PRS30-CV 12" SPRAY HEAD; FULL CIRCLE PRO SPRAY NOZZLES - NOZZLE RADIUS VARIES
- ◐ HUNTER PROS-12-PRS30-CV 12" SPRAY HEAD; PART CIRCLE PRO SPRAY NOZZLES - NOZZLE RADIUS VARIES
- ⊗ HUNTER PROS-04-PRS30-CV 4" SPRAY HEAD; PART CIRCLE HUNTER PRO SPRAY NOZZLES- NOZZLE RADIUS VARIES
- ▼ HUNTER 1" HQ-44RCAW SERIES QUICK COUPLER
- CL 200 PVC PIPE - 2" & 1.5" MAINLINE
- 1" PE HD100 PIPE
- ① ② BASELINE 3200 STAINLESS STEEL PEDESTAL, DC CONTROLLER CONTROLLER TO HAVE SOLAR PANEL BL-DC-85WPANEL MOUNTED ON A 3" GALVANIZED POLE WITH CAP. COORDINATE WITH OWNER FOR MOUNTING LOCATION, INSTALL AND GROUND TO MANUFACTURER'S RECOMMENDATIONS AND DETAILS. USE BL-5201DC BICODERS. PROVIDE AND INSTALL A BISENSOR. PROVIDE & INSTALL A RAINCLIK SENSOR TO WORK WITH THE CONTROLLER. PROVIDE AND INSTALL A TRC COMMAND RECEIVER ON THE PEDESTAL & HANDHELD TRANSMITTER. BL-CMDR & BL-3200T-P. INSTALL ENCLOSURE PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO VERIFY ENCLOSURE SIZE.
- Ⓢ BASELINE SOIL SENSOR BI-5315B; ONE PER CONTROLLER
- ⌵ 2" ISOLATION GATE VALVE
- ⓖ GROUNDING PER DETAIL. PROVIDE A BASELINE SURGE ARRESTOR AT EACH GROUNDING LOCATION AND INSTALL PER MANUFACTURES RECOMMENDATIONS.
- ⦿ HUNTER PGV-101G-DC ELECTRIC VALVES VALVES TO HAVE DC LATCHING SOLENOID.
- ⓂV BASELINE 1.5" BHM SERIES HYDROMETER; COMBINATION MASTER VALVE AND FLOW SENSOR. NORMALLY OPEN CONFIGURATION, ADJUST FLOW LIMITS IN CONTROLLER.
- Ⓜ WATERTRONICS WATERPAK 3- 3HP VFD STATION MOUNT PUMP ON CONCRETE SLAB
- ⊠ 1.5" BLOW OUT TAP WITH PLUG
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- △ 1.5" POINT OF CONNECTION - COORDINATE WITH OWNER & GENERAL CONTRACTOR IRRIGATION TAPS VARY. FOLLOW STATE AND LOCAL CODES FROM TAP THROUGH BACKFLOW PREVENTOR, METER AND SYSTEM.
- 2" PIPE SIZE



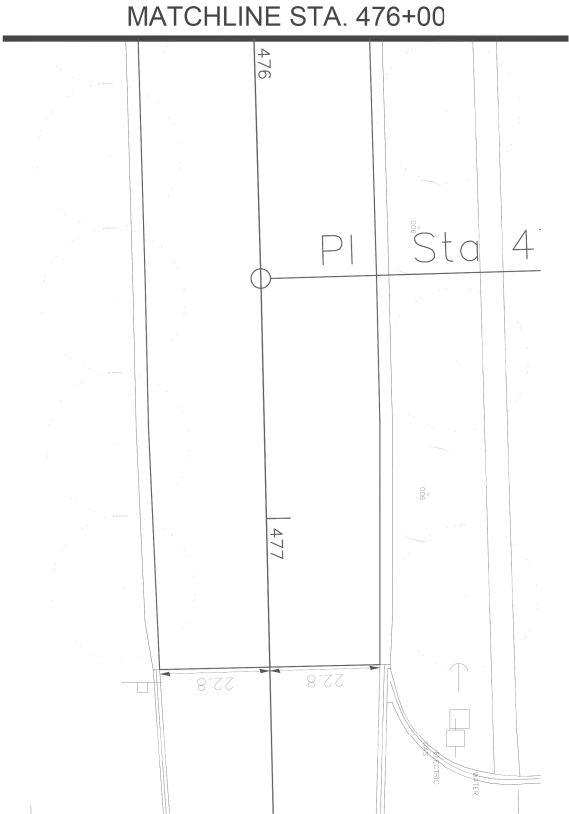
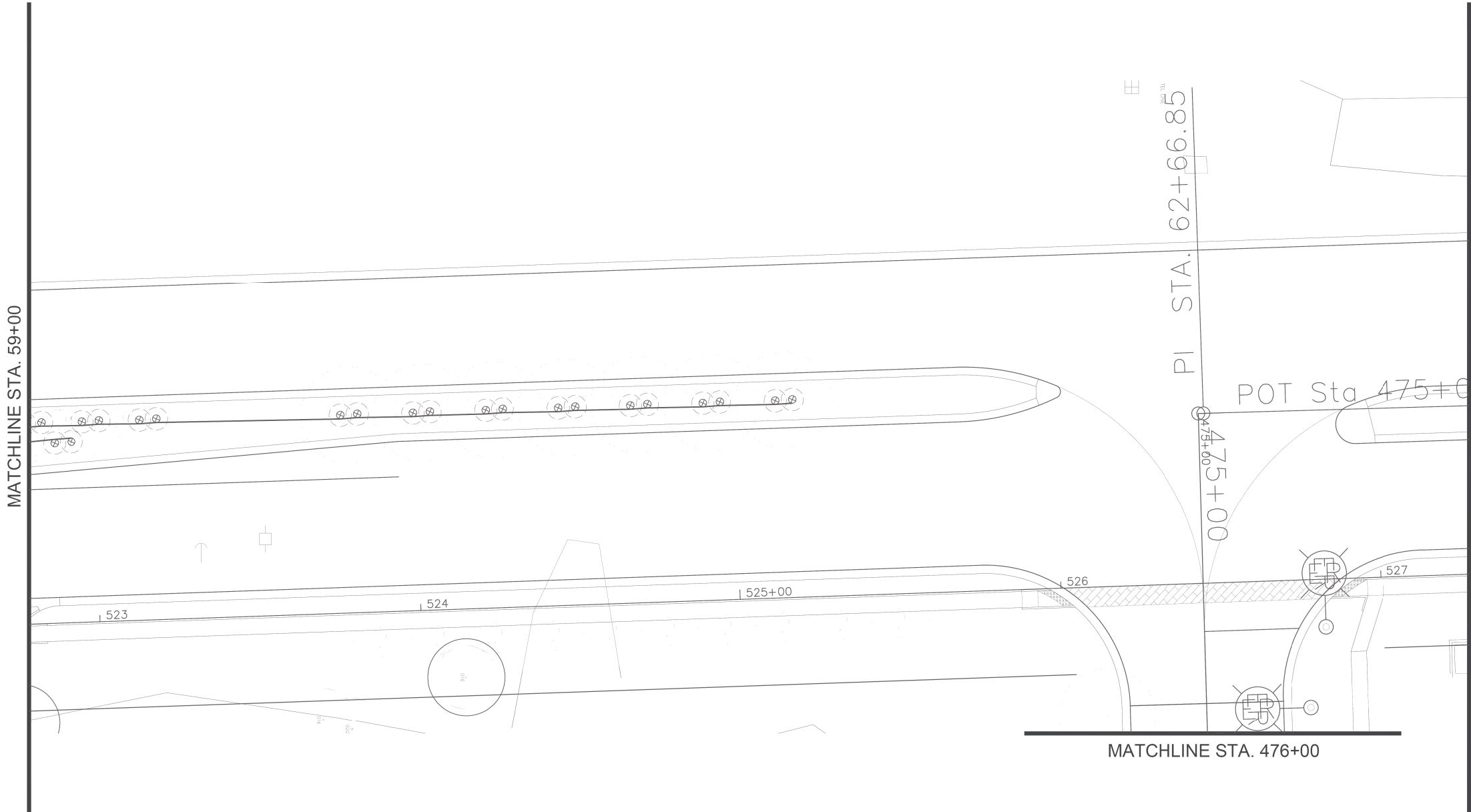
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LaGrangeIRR_020413.dwg		DRAWN — JR	REVISED —
	PLOT SCALE = AS SHOWN	CHECKED — BM	REVISED —
	PLOT DATE = 11/26/2012	DATE — 03/13/13	REVISED —

### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

### IRRIGATION PLAN US 45 (LAGRANGE ROAD)

SCALE: AS SHOWN SHEET NO. 4 OF 12 SHEETS STA. 53+00.00 TO STA. 59+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	443
IR-04		CONTRACT NO. 60F05		
ILLINOIS		FED. AID PROJECT		



LEGEND

- HUNTER PROS-12-PRS30-CV 12" SPRAY HEAD; FULL CIRCLE PRO SPRAY NOZZLES - NOZZLE RADIUS VARIES
  - HUNTER PROS-12-PRS30-CV 12" SPRAY HEAD; PART CIRCLE PRO SPRAY NOZZLES - NOZZLE RADIUS VARIES
  - ⊗ HUNTER PROS-04-PRS30-CV 4" SPRAY HEAD; PART CIRCLE HUNTER PRO SPRAY NOZZLES- NOZZLE RADIUS VARIES
  - ▼ HUNTER 1" HQ-44RCAW SERIES QUICK COUPLER
  - CL 200 PVC PIPE - 2" & 1.5" MAINLINE
  - 1" PE HD100 PIPE
  - ①② BASELINE 3200 STAINLESS STEEL PEDESTAL, DC CONTROLLER. CONTROLLER TO HAVE SOLAR PANEL BL-DC-85WPANEL MOUNTED ON A 3" GALVANIZED POLE WITH CAP. COORDINATE WITH OWNER FOR MOUNTING LOCATION. INSTALL AND GROUND TO MANUFACTURER'S RECOMMENDATIONS AND DETAILS. USE BL-5201DC BICODERS. PROVIDE AND INSTALL A BISENSOR. PROVIDE & INSTALL A RAINCLK SENSOR TO WORK WITH THE CONTROLLER. PROVIDE AND INSTALL A TRC COMMAND RECEIVER ON THE PEDESTAL & HANDHELD TRANSMITTER. BL-CMDR & BL-3200T-P. INSTALL ENCLOSURE PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO VERIFY ENCLOSURE SIZE.
  - Ⓢ BASELINE SOIL SENSOR BI-5315B; ONE PER CONTROLLER
  - ✕ 2" ISOLATION GATE VALVE
  - ⓖ GROUNDING PER DETAIL. PROVIDE A BASELINE SURGE ARRESTOR AT EACH GROUNDING LOCATION AND INSTALL PER MANUFACTURES RECOMMENDATIONS.
- ⊕ HUNTER PGV-101G-DC ELECTRIC VALVES VALVES TO HAVE DC LATCHING SOLENOID.
  - MV BASELINE 1.5" BHM SERIES HYDROMETER; COMBINATION MASTER VALVE AND FLOW SENSOR. NORMALLY OPEN CONFIGURATION, ADJUST FLOW LIMITS IN CONTROLLER.
  - Ⓟ WATERTRONICS WATERPAK 3- 3HP VFD STATION MOUNT PUMP ON CONCRETE SLAB
  - ⊠ 1.5" BLOW OUT TAP WITH PLUG
  - ⊠ 1.5" RPZ BACKFLOW PREVENTER AND METER - PROVIDED BY THIS CONTRACTOR RPZ TO BE LOCATED IN AN ENCLOSURE. COLOR AND STYLE TO BE APPROVED. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE BACKFLOW/METER FITS IN THE ENCLOSURE. INSTALL PER MANUFACTURES RECOMMENDATIONS.
  - △ 1.5' POINT OF CONNECTION - COORDINATE WITH OWNER & GENERAL CONTRACTOR IRRIGATION TAPS VARY. FOLLOW STATE AND LOCAL CODES FROM TAP THROUGH BACKFLOW PREVENTOR, METER AND SYSTEM.
  - 2" PIPE SIZE
- Controller Number

Station Number

1-24

1" 35

Zone GPM

Valve Size

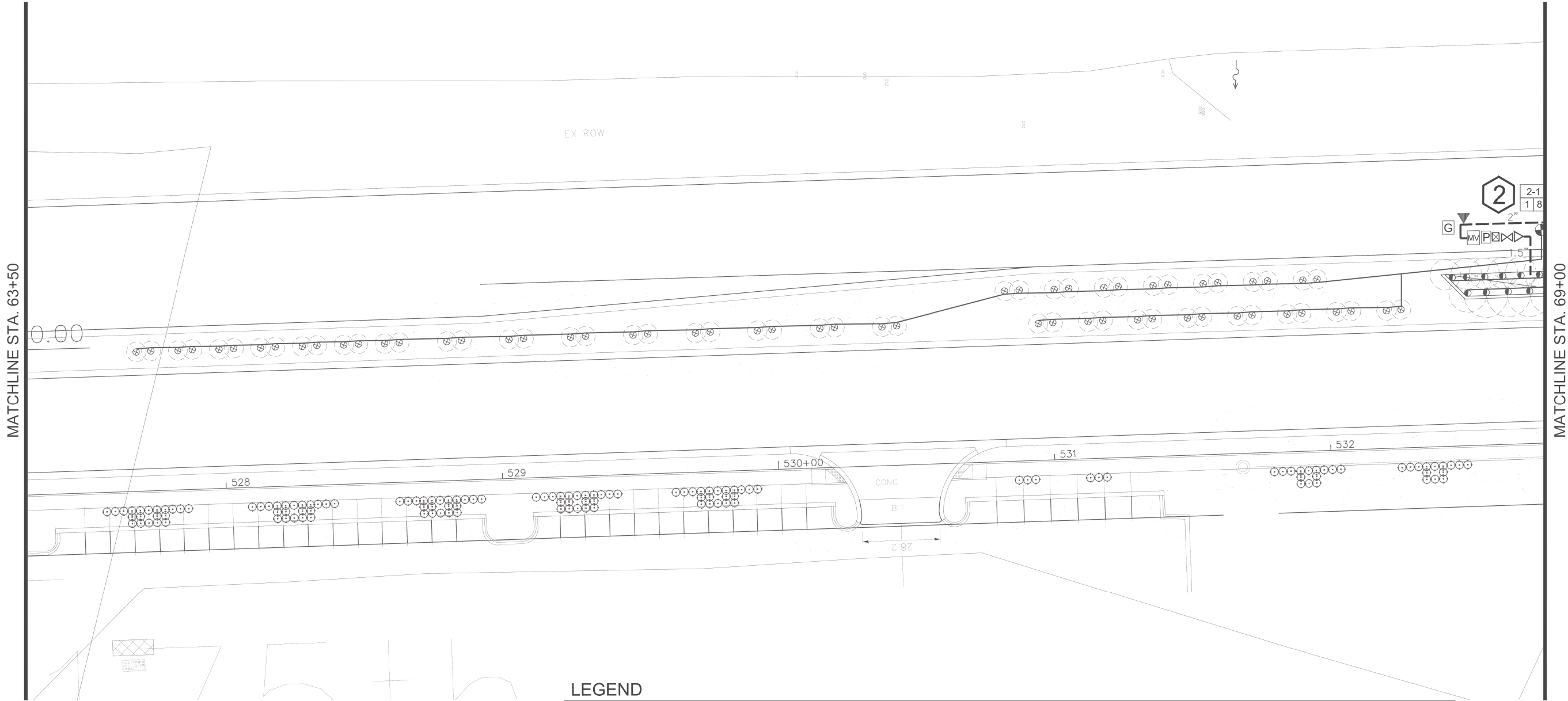
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IRRIGATION PLAN  
US 45 (LAGRANGE ROAD)

SCALE: AS SHOWN SHEET NO. 5 OF 12 SHEETS STA. 59+00.00 TO STA. 63+50.00

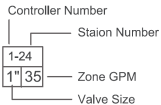
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	444
IR-05		CONTRACT NO. 60F05		
ILLINOIS		FED. AID PROJECT		



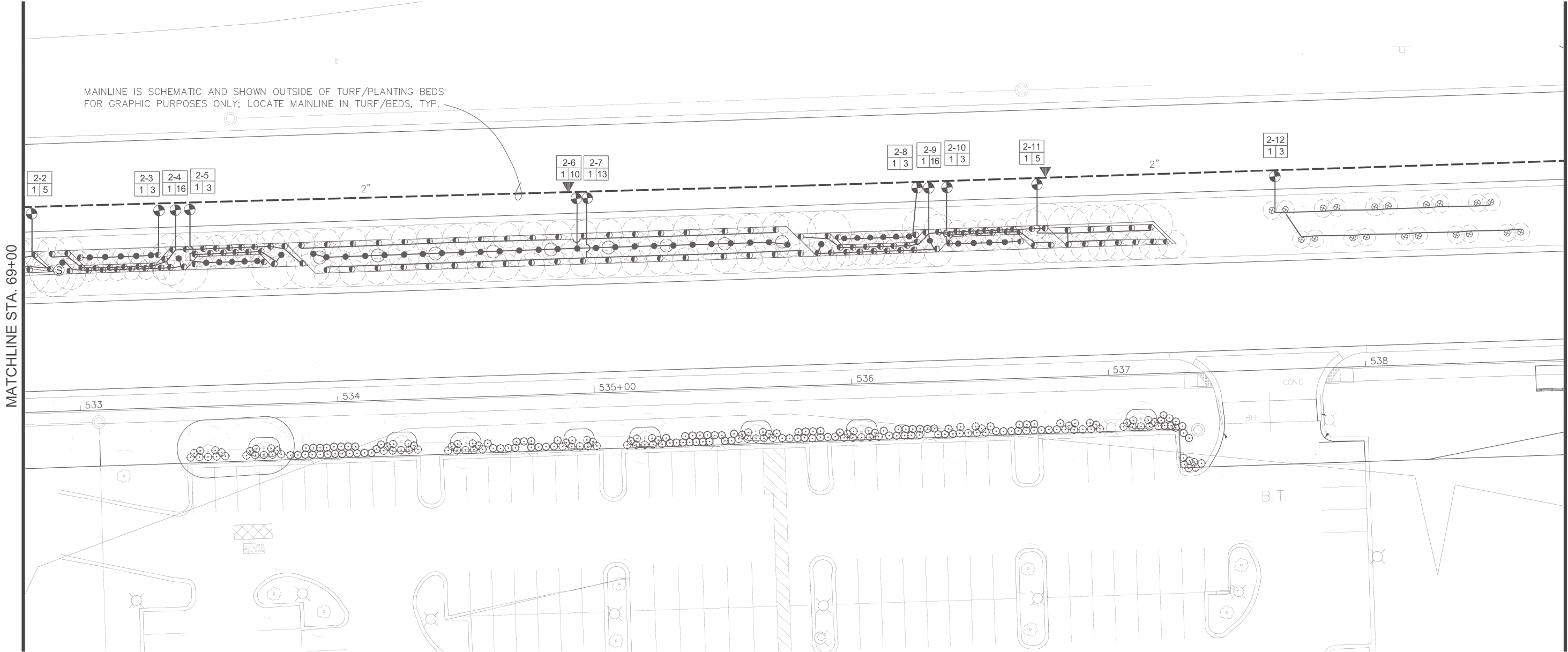
LEGEND

- HUNTER PROS-12-PRS30-CV 12' SPRAY HEAD; FULL CIRCLE PRO SPRAY NOZZLES - NOZZLE RADIUS VARIES
- HUNTER PROS-12-PRS30-CV 12" SPRAY HEAD; PART CIRCLE PRO SPRAY NOZZLES - NOZZLE RADIUS VARIES
- ⊗ HUNTER PROS-04-PRS30-CV 4" SPRAY HEAD; PART CIRCLE HUNTER PRO SPRAY NOZZLES- NOZZLE RADIUS VARIES
- ▼ HUNTER 1" HQ-44RCAW SERIES QUICK COUPLER
- CL 200 PVC PIPE - 2" & 1.5" MAINLINE
- 1" PE HD100 PIPE
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- Ⓢ BASELINE SOIL SENSOR BI-5315B; ONE PER CONTROLLER
- ⌵ 2" ISOLATION GATE VALVE
- ⓖ GROUNDING PER DETAIL. PROVIDE A BASELINE SURGE ARRESTOR AT EACH GROUNDING LOCATION AND INSTALL PER MANUFACTURES RECOMMENDATIONS.

- ⊕ HUNTER PGV-101G-DC ELECTRIC VALVES VALVES TO HAVE DC LATCHING SOLENOID.
- MV BASELINE 1.5" BHM SERIES HYDROMETER; COMBINATION MASTER VALVE AND FLOW SENSOR. NORMALLY OPEN CONFIGURATION, ADJUST FLOW LIMITS IN CONTROLLER.
- P WATERTRONICS WATERPAK 3- 3HP VFD STATION MOUNT PUMP ON CONCRETE SLAB
- ⊠ 1.5" BLOW OUT TAP WITH PLUG
- ⌵ 1.5" RPZ BACKFLOW PREVENTER AND METER - PROVIDED BY THIS CONTRACTOR RPZ TO BE LOCATED IN AN ENCLOSURE. COLOR AND STYLE TO BE APPROVED. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE BACKFLOW/METER FITS IN THE ENCLOSURE. INSTALL PER MANUFACTURES RECOMMENDATIONS.
- △ 1.5" POINT OF CONNECTION - COORDINATE WITH OWNER & GENERAL CONTRACTOR IRRIGATION TAPS VARY. FOLLOW STATE AND LOCAL CODES FROM TAP THROUGH BACKFLOW PREVENTOR, METER AND SYSTEM.
- 2" PIPE SIZE

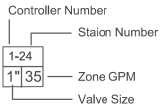


FILE NAME = LaGrangeIRR_020413.dwg	USER NAME = jrossman	DESIGNED — AB	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IRRIGATION PLAN US 45 (LAGRANGE ROAD)				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN — JR	REVISED —						330	103R-3	COOK	932	445
	PLOT SCALE = AS SHOWN	CHECKED — BM	IR-06						CONTRACT NO. 60F05				
	PLOT DATE = 11/26/2012	DATE — 03/13/13	REVISED —									SCALE: AS SHOWN	SHEET NO. 6 OF 12 SHEETS



LEGEND

- HUNTER PROS-12-PRS30-CV 12" SPRAY HEAD; FULL CIRCLE PRO SPRAY NOZZLES - NOZZLE RADIUS VARIES
- ◐ HUNTER PROS-12-PRS30-CV 12" SPRAY HEAD; PART CIRCLE PRO SPRAY NOZZLES - NOZZLE RADIUS VARIES
- ◑ HUNTER PROS-04-PRS30-CV 4" SPRAY HEAD; PART CIRCLE HUNTER PRO SPRAY NOZZLES- NOZZLE RADIUS VARIES
- ▼ HUNTER 1" HQ-44RCAW SERIES QUICK COUPLER
- CL 200 PVC PIPE - 2" & 1.5" MAINLINE
- 1" PE HD100 PIPE
- ① ② BASELINE 3200 STAINLESS STEEL PEDESTAL, DC CONTROLLER CONTROLLER TO HAVE SOLAR PANEL BL-DC-85WPANEL MOUNTED ON A 3" GALVANIZED POLE WITH CAP. COORDINATE WITH OWNER FOR MOUNTING LOCATION, INSTALL AND GROUND TO MANUFACTURER'S RECOMMENDATIONS AND DETAILS. USE BL-5201DC BICODERS. PROVIDE AND INSTALL A BISENSOR. PROVIDE & INSTALL A RAINLIK SENSOR TO WORK WITH THE CONTROLLER. PROVIDE AND INSTALL A TRC COMMAND RECEIVER ON THE PEDESTAL & HANDHELD TRANSMITTER, BL-CMDR & BL-3200T-P. INSTALL ENCLOSURE PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO VERIFY ENCLOSURE SIZE.
- Ⓢ BASELINE SOIL SENSOR BI-5315B; ONE PER CONTROLLER
- ⌵ 2" ISOLATION GATE VALVE
- ⓖ GROUNDING PER DETAIL. PROVIDE A BASELINE SURGE ARRESTOR AT EACH GROUNDING LOCATION AND INSTALL PER MANUFACTURES RECOMMENDATIONS.
- ⦿ HUNTER PGV-101G-DC ELECTRIC VALVES VALVES TO HAVE DC LATCHING SOLENOID.
- ⓂV BASELINE 1.5" BHM SERIES HYDROMETER; COMBINATION MASTER VALVE AND FLOW SENSOR. NORMALLY OPEN CONFIGURATION, ADJUST FLOW LIMITS IN CONTROLLER.
- Ⓜ WATERTRONICS WATERPAK 3- 3HP VFD STATION MOUNT PUMP ON CONCRETE SLAB
- ⊠ 1.5" BLOW OUT TAP WITH PLUG
- ⌵ 1.5" RPZ BACKFLOW PREVENTER AND METER - PROVIDED BY THIS CONTRACTOR RPZ TO BE LOCATED IN AN ENCLOSURE. COLOR AND STYLE TO BE APPROVED. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE BACKFLOW/METER FITS IN THE ENCLOSURE. INSTALL PER MANUFACTURES RECOMMENDATIONS.
- △ 1.5" POINT OF CONNECTION - COORDINATE WITH OWNER & GENERAL CONTRACTOR IRRIGATION TAPS VARY. FOLLOW STATE AND LOCAL CODES FROM TAP THROUGH BACKFLOW PREVENTOR, METER AND SYSTEM.
- 2" PIPE SIZE



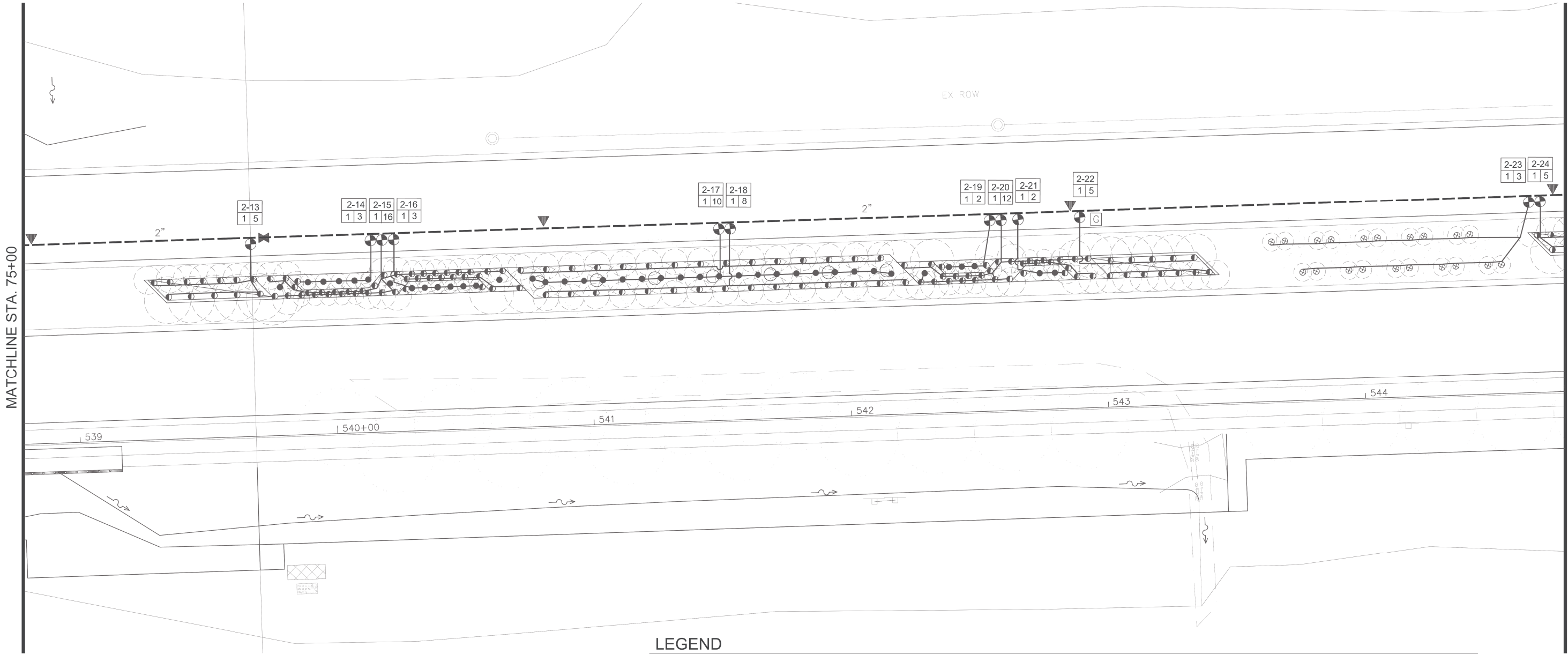
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LaGrangeIR_020413.dwg		DRAWN — JR	REVISED —
	PLOT SCALE = AS SHOWN	CHECKED — BM	REVISED —
	PLOT DATE = 11/26/2012	DATE — 03/13/13	REVISED —

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IRRIGATION PLAN  
US 45 (LAGRANGE ROAD)

SCALE: AS SHOWN SHEET NO. 7 OF 12 SHEETS STA. 69+00.00 TO STA. 75+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	446
IR-07		CONTRACT NO. 60F05		
ILLINOIS		FED. AID PROJECT		



LEGEND

- HUNTER PROS-12-PRS30-CV 12" SPRAY HEAD; FULL CIRCLE PRO SPRAY NOZZLES - NOZZLE RADIUS VARIES

◐

HUNTER PROS-12-PRS30-CV 12" SPRAY HEAD; PART CIRCLE PRO SPRAY NOZZLES - NOZZLE RADIUS VARIES

⊗

HUNTER PROS-04-PRS30-CV 4" SPRAY HEAD; PART CIRCLE HUNTER PRO SPRAY NOZZLES- NOZZLE RADIUS VARIES

▼

HUNTER 1" HQ-44RCAW SERIES QUICK COUPLER

---

CL 200 PVC PIPE - 2" & 1.5" MAINLINE

—

1" PE HD100 PIPE

①②

BASLINE 3200 STAINLESS STEEL PEDESTAL, DC CONTROLLER CONTROLLER TO HAVE SOLAR PANEL BL-DC-85WPANEL MOUNTED ON A 3" GALVANIZED POLE WITH CAP. COORDINATE WITH OWNER FOR MOUNTING LOCATION, INSTALL AND GROUND TO MANUFACTURER'S RECOMMENDATIONS AND DETAILS. USE BL-5201DC BICODERS. PROVIDE AND INSTALL A BISENSOR. PROVIDE & INSTALL A RAINCLIK SENSOR TO WORK WITH THE CONTROLLER. PROVIDE AND INSTALL A TRC COMMAND RECEIVER ON THE PEDESTAL & HANDHELD TRANSMITTER. BL-CMDR & BL-3200T-P. INSTALL ENCLOSURE PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO VERIFY ENCLOSURE SIZE.

Ⓢ

BASLINE SOIL SENSOR BI-5315B; ONE PER CONTROLLER

⌵

2" ISOLATION GATE VALVE

Ⓜ

GROUNDING PER DETAIL. PROVIDE A BASELINE SURGE ARRESTOR AT EACH GROUNDING LOCATION AND INSTALL PER MANUFACTURES RECOMMENDATIONS.
- ⚙

HUNTER PGV-101G-DC ELECTRIC VALVES VALVES TO HAVE DC LATCHING SOLENOID.

ⓂV

BASLINE 1.5" BHM SERIES HYDROMETER; COMBINATION MASTER VALVE AND FLOW SENSOR. NORMALLY OPEN CONFIGURATION, ADJUST FLOW LIMITS IN CONTROLLER.

Ⓜ

WATERTRONICS WATERPAK 3- 3HP VFD STATION MOUNT PUMP ON CONCRETE SLAB

⊠

1.5" BLOW OUT TAP WITH PLUG

⌵

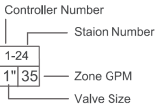
1.5" RPZ BACKFLOW PREVENTER AND METER - PROVIDED BY THIS CONTRACTOR RPZ TO BE LOCATED IN AN ENCLOSURE. COLOR AND STYLE TO BE APPROVED. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE BACKFLOW/METER FITS IN THE ENCLOSURE. INSTALL PER MANUFACTURES RECOMMENDATIONS.

△

1.5" POINT OF CONNECTION - COORDINATE WITH OWNER & GENERAL CONTRACTOR IRRIGATION TAPS VARY. FOLLOW STATE AND LOCAL CODES FROM TAP THROUGH BACKFLOW PREVENTOR, METER AND SYSTEM.

2"

PIPE SIZE



FILE NAME =	USER NAME = jrossman	DESIGNED — AB	REVISED —
LaGrangeRR_020413.dwg		DRAWN — JR	REVISED —
	PLOT SCALE = AS SHOWN	CHECKED — BM	REVISED —
	PLOT DATE = 11/26/2012	DATE — 03/13/13	REVISED —

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

















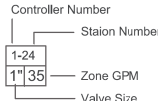
IRRIGATION PLAN  
US 45 (LAGRANGE ROAD)

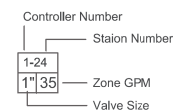
SCALE: AS SHOWN SHEET NO. 8 OF 12 SHEETS STA. 75+00.00 TO STA. 81+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	447
IR-08		CONTRACT NO. 60F05		
ILLINOIS		FED. AID PROJECT		

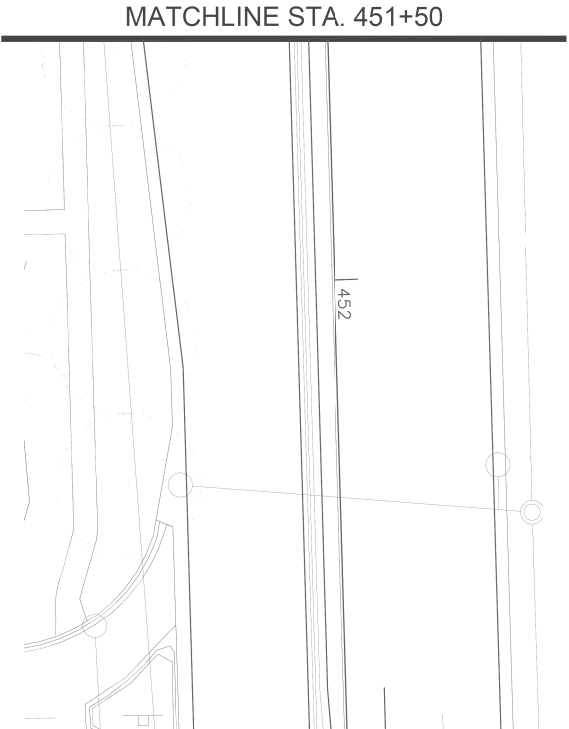
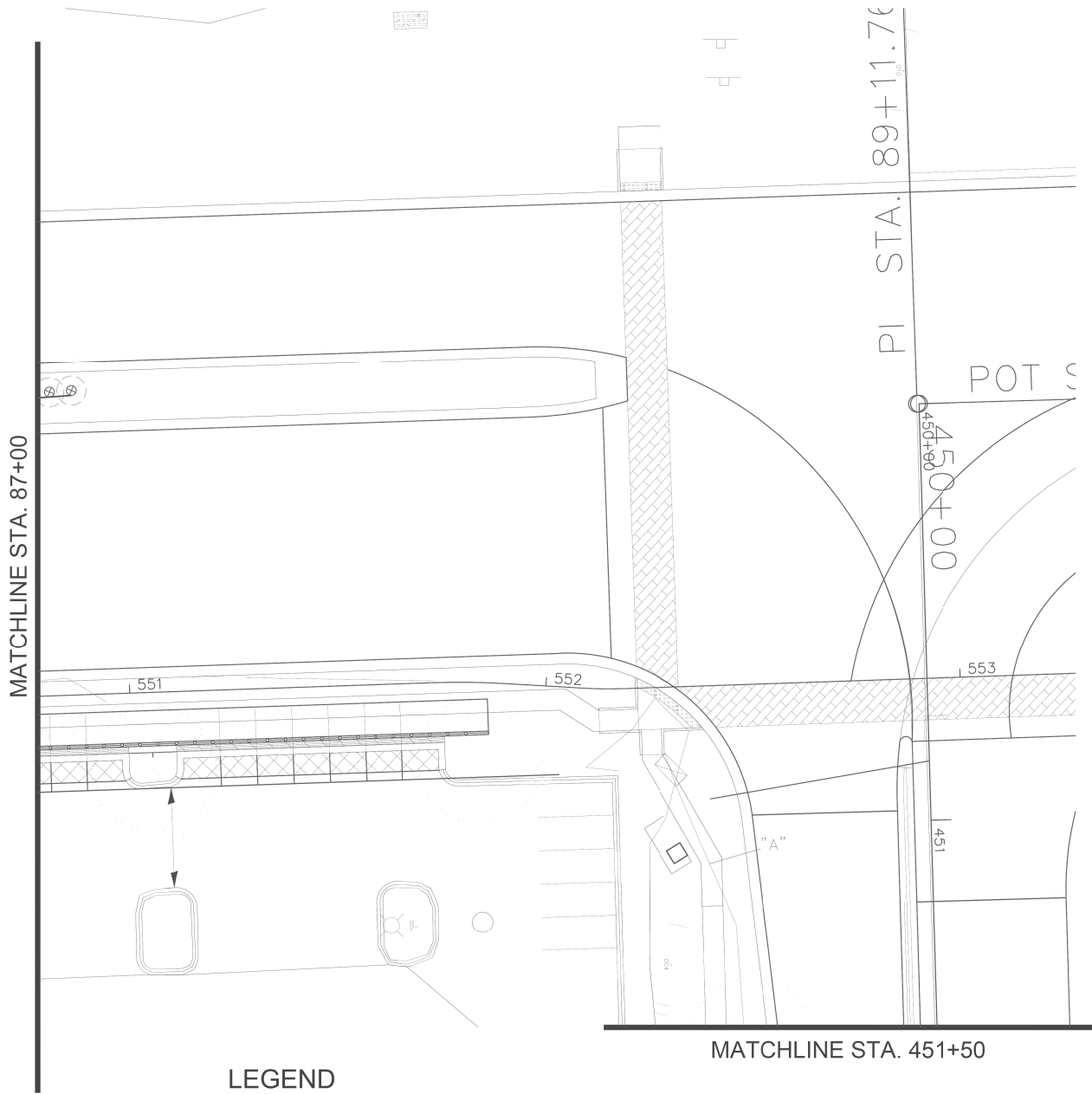


## LEGEND

- |  |  |   |  |  |  |   |   |   |  |   |   |  |   |   |   |   |
|--|--|---|--|--|--|---|---|---|--|---|---|--|---|---|---|---|
|  HUNTER PROS-12-PRS30-CV 12" SPRAY HEAD; FULL CIRCLE PRO SPRAY NOZZLES - NOZZLE RADIUS VARIES |  HUNTER PROS-12-PRS30-CV 12" SPRAY HEAD; PART CIRCLE PRO SPRAY NOZZLES - NOZZLE RADIUS VARIES |  HUNTER PROS-04-PRS30-CV 4" SPRAY HEAD; PART CIRCLE HUNTER PRO SPRAY NOZZLES- NOZZLE RADIUS VARIES |  HUNTER 1" HQ-44RCAW SERIES QUICK COUPLER |  CL 200 PVC PIPE - 2" & 1.5" MAINLINE |  1" PE HD100 PIPE |  <p>           BASELINE 3200 STAINLESS STEEL PEDESTAL, DC CONTROLLER. CONTROLLER TO HAVE SOLAR PANEL BL-DC-85WPANEL MOUNTED ON A 3" GALVANIZED POLE WITH CAP. COORDINATE WITH OWNER FOR MOUNTING LOCATION, INSTALL AND GROUND TO MANUFACTURER'S RECOMMENDATIONS AND DETAILS. USE BL-5201DC BICODERS, PROVIDE AND INSTALL A BISENSOR, PROVIDE &amp; INSTALL A RAINCLIK SENSOR TO WORK WITH THE CONTROLLER. PROVIDE AND INSTALL A TRC COMMAND RECEIVER ON THE PEDESTAL &amp; HANDHELD TRANSMITTER. BL-CMDR &amp; BL-3200T-P. INSTALL ENCLOSURE PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO VERIFY ENCLOSURE SIZE.         </p> |  BASELINE SOIL SENSOR BI-5315B; ONE PER CONTROLLER |  2" ISOLATION GATE VALVE |  GROUNDING PER DETAIL. PROVIDE A BASELINE SURGE ARRESTOR AT EACH GROUNDING LOCATION AND INSTALL PER MANUFACTURES RECOMMENDATIONS. |  HUNTER PGV-101G-DC ELECTRIC VALVES VALVES TO HAVE DC LATCHING SOLENOID. |  BASELINE 1.5" BHM SERIES HYDROMETER; COMBINATION MASTER VALVE AND FLOW SENSOR. NORMALLY OPEN CONFIGURATION, ADJUST FLOW LIMITS IN CONTROLLER. |  WATERTRONICS WATERPAK 3- 3HP VFD STATION MOUNT PUMP ON CONCRETE SLAB |  1.5" BLOW OUT TAP WITH PLUG |  1.5" RPZ BACKFLOW PREVENTER AND METER - PROVIDED BY THIS CONTRACTOR RPZ TO BE LOCATED IN AN ENCLOSURE. COLOR AND STYLE TO BE APPROVED. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE BACKFLOW/METER FITS IN THE ENCLOSURE. INSTALL PER MANUFACTURES RECOMMENDATIONS. |  1.5" POINT OF CONNECTION - COORDINATE WITH OWNER & GENERAL CONTRACTOR IRRIGATION TAPS VARY. FOLLOW STATE AND LOCAL CODES FROM TAP THROUGH BACKFLOW PREVENTOR, METER AND SYSTEM. | <p>2" PIPE SIZE</p>  |
|--|--|---|--|--|--|---|---|---|--|---|---|--|---|---|---|---|

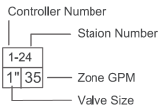


FILE NAME =  LaGrangeRR_020413.dwg	USER NAME = jrossman	DESIGNED — AB	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IRRIGATION PLAN US 45 (LAGRANGE ROAD)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN — JR	REVISED —					330	103R-3	COOK	932	448
	PLOT SCALE = AS SHOWN	CHECKED — BM	REVISED —		IR-09			CONTRACT NO. 60F05				
	PLOT DATE = 11/26/2012	DATE — 03/13/13	REVISED —									
					SCALE: AS SHOWN	SHEET NO. 9 OF 12 SHEETS	STA. 81+00.00 TO STA. 87+00.00	ILLINOIS F.E.D. AID PROJECT				

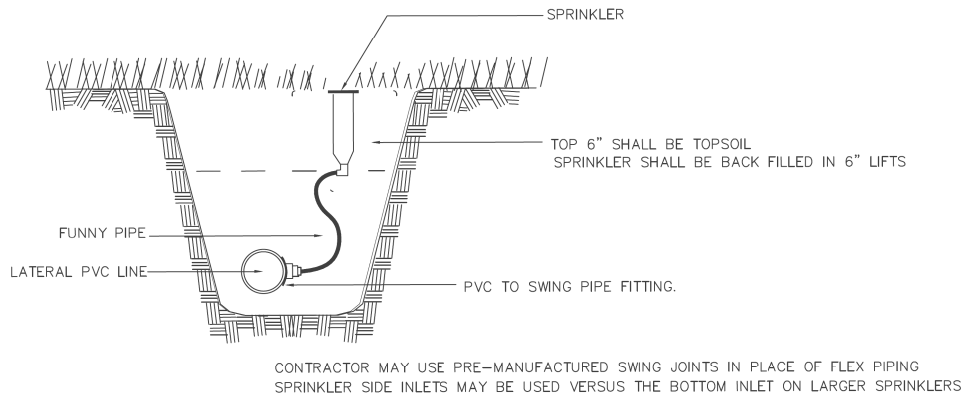


LEGEND

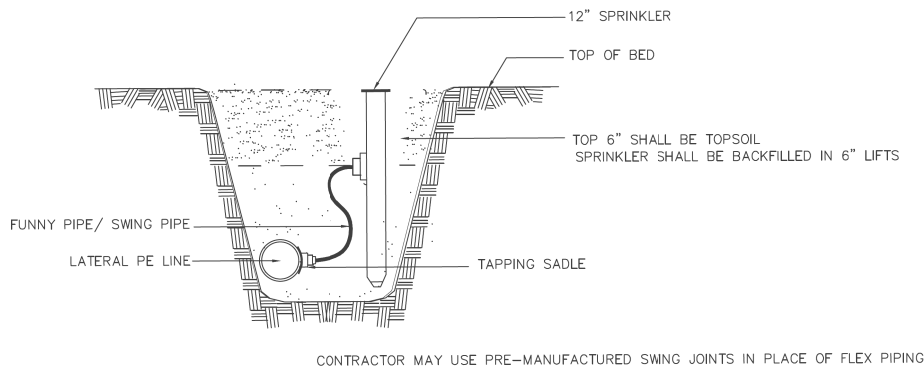
- HUNTER PROS-12-PRS30-CV 12" SPRAY HEAD; FULL CIRCLE PRO SPRAY NOZZLES - NOZZLE RADIUS VARIES
- HUNTER PROS-12-PRS30-CV 12" SPRAY HEAD; PART CIRCLE PRO SPRAY NOZZLES - NOZZLE RADIUS VARIES
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- 2" PIPE SIZE



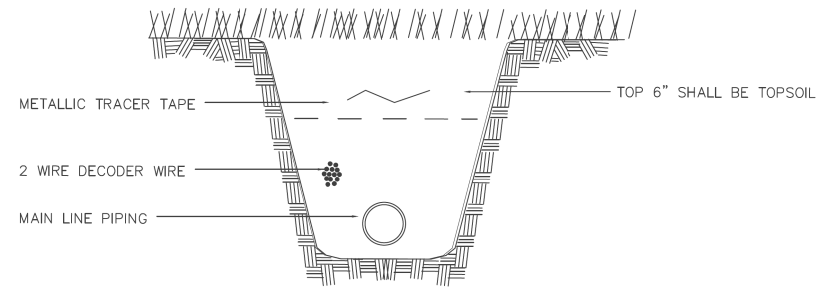
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		DRAWN — JR	REVISED —			330	103R-3	COOK	932	449		
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	PLOT DATE = 11/26/2012	DATE — 03/13/13	REVISED —			ILLINOIS FED. AID PROJECT						
SCALE: AS SHOWN SHEET NO. 10 OF 12 SHEETS STA. 87+00.00 TO STA. 89+50.00												



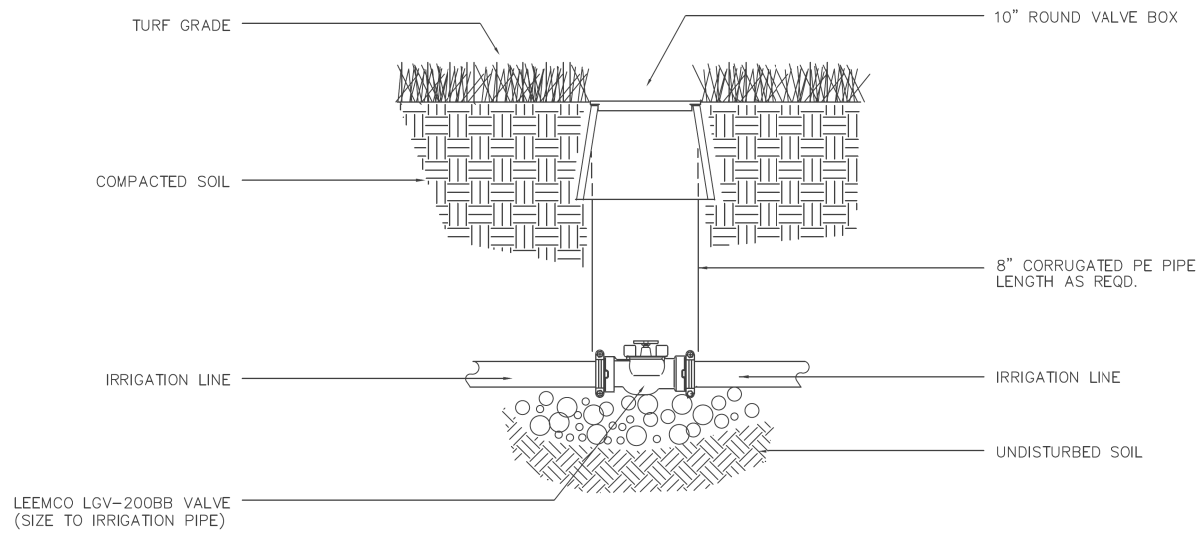
**1 4" SPRAY HEAD- TURF** NO SCALE



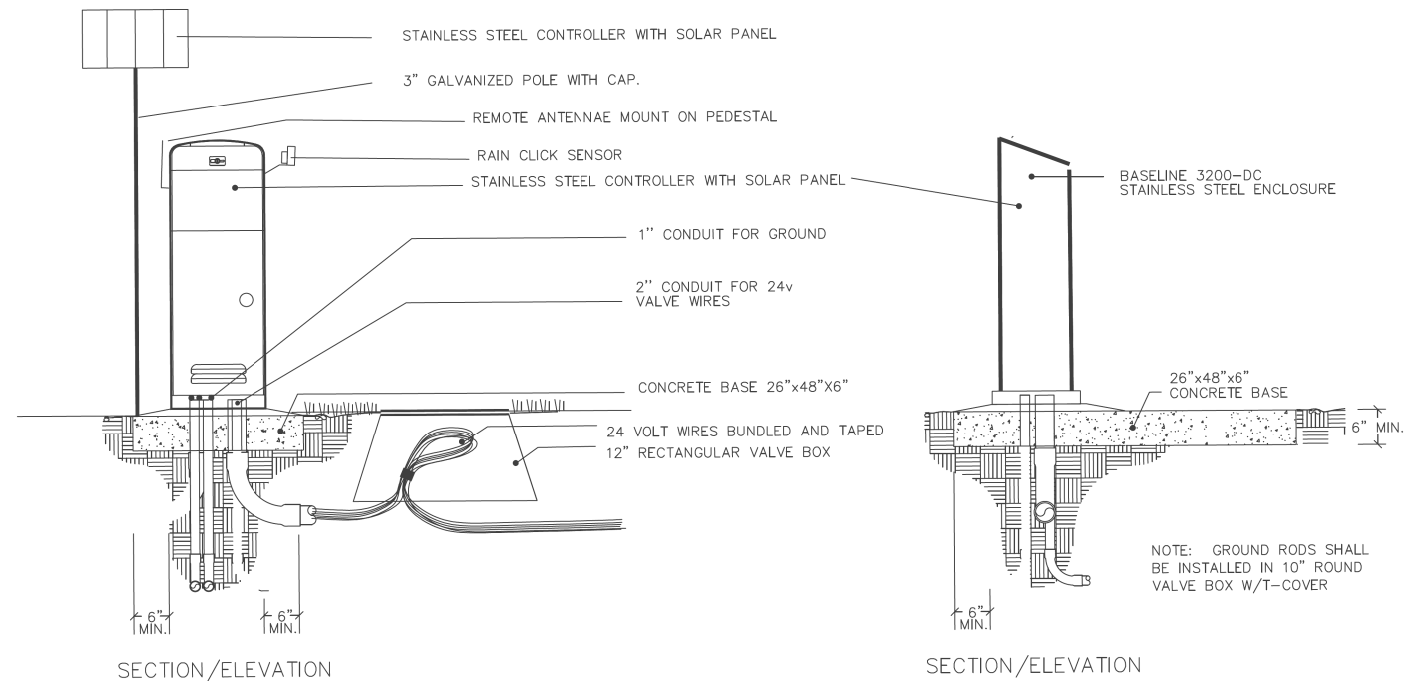
**2 12" SPRAY HEAD- PLANTINGS** NO SCALE



**3 WIRE TRENCH** NO SCALE



**4 ISOLATION VALVE 3" and SMALLER** NO SCALE



**5 CONTROLLER MOUNT** NO SCALE

FILE NAME =	USER NAME = jrossman	DESIGNED — AB	REVISED —
LaGrangeRR_020413.dwg		DRAWN — JR	REVISED —
	PLOT SCALE = AS SHOWN	CHECKED — BM	REVISED —
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F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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IR-11		CONTRACT NO. 60F05		
ILLINOIS		FED. AID PROJECT		

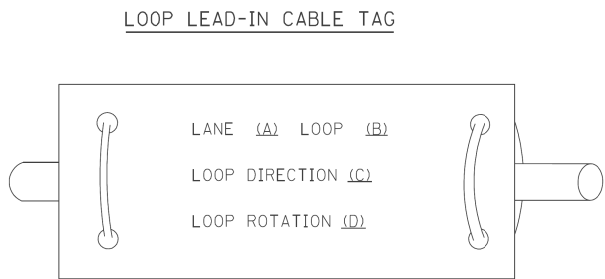


**URS**  
100 S. WACKER DR.  
SUITE 500  
CHICAGO IL 60606  
TEL (312)-939-1000  
FAX (312)-939-4198

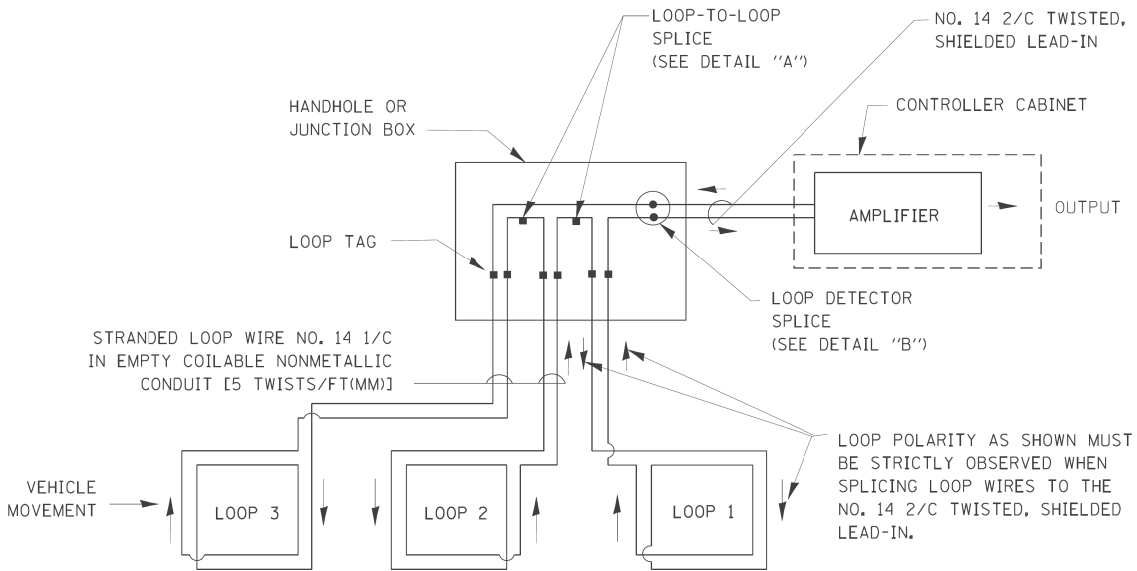
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		DRAWN — JR	REVISED —					330	103R-3	COOK	932	451
	PLOT SCALE = AS SHOWN	CHECKED — BM	REVISED —		IR-12		CONTRACT NO. 60F05					
	PLOT DATE = 11/26/2012	DATE — 03/13/13	REVISED —		SCALE: AS SHOWN	SHEET NO. 12 OF 12 SHEETS	STA. 87+00.00 TO STA. 89+50.00	ILLINOIS FED. AID PROJECT				

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.

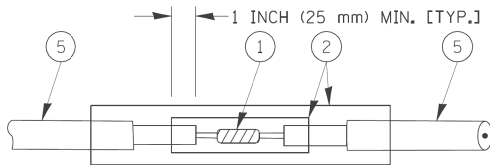


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

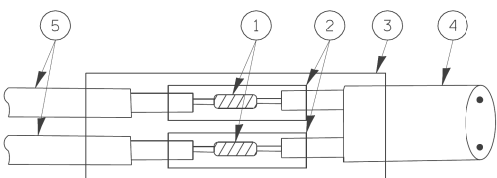


DETECTOR LOOP WIRING SCHEMATIC

- 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.

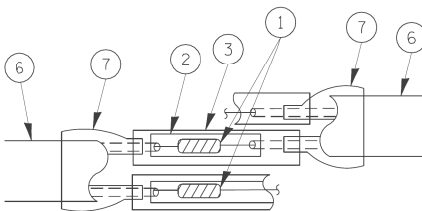


DETAIL "A"  
LOOP-TO-LOOP SPLICE

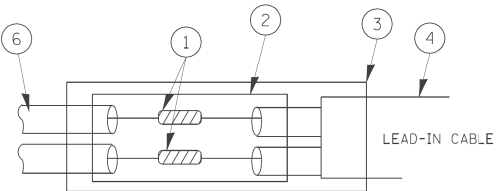


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"  
LOOP-TO-LOOP SPLICE



PRE-FORMED 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 LENGHT 6" (150 mm), UNDERWATER GRADE.
- ④ NO. 14 2/C TWISTED, SHIELDED CABLE.
- ⑤ LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- ⑥ PRE-FORMED LOOP
- ⑦ XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

FILE NAME = c:\pwwork\PWIDOT\BAUERDL\d0108315\ts05.dgn	USER NAME = bauerdl	DESIGNED - DAD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	SCALE: NONE	SHEET NO. 1 OF 6 SHEETS	STA. TO STA.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50,0000 ' / IN.	DRAWN - BCK	REVISED -						330	103R-3	COOK	932	452
	PLOT DATE = 11/4/2009	CHECKED - DAD	REVISED -						TS-05		CONTRACT NO. 60F05		
	DATE - 10-28-09	DATE - 10-28-09	REVISED -						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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.

FILE NAME = c:\pwwork\PWID00T\BAUERDL\d0108315\ts05.dgn

USER NAME = bauerdl

DESIGNED - DAD

DRAWN - BCK

PLOT SCALE = 50,0000 ' / IN.

PLOT DATE = 11/4/2009

REVISD -

REVISED -

REVISD -

REVISED -

DATE - 10-28-09

REVISED -

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DISTRICT ONE

STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE

SHEET NO. 2 OF 6 SHEETS

STA. TO STA.

F.A.P. RTE. 330

SECTION 103R-3

TS-05

COUNTY COOK

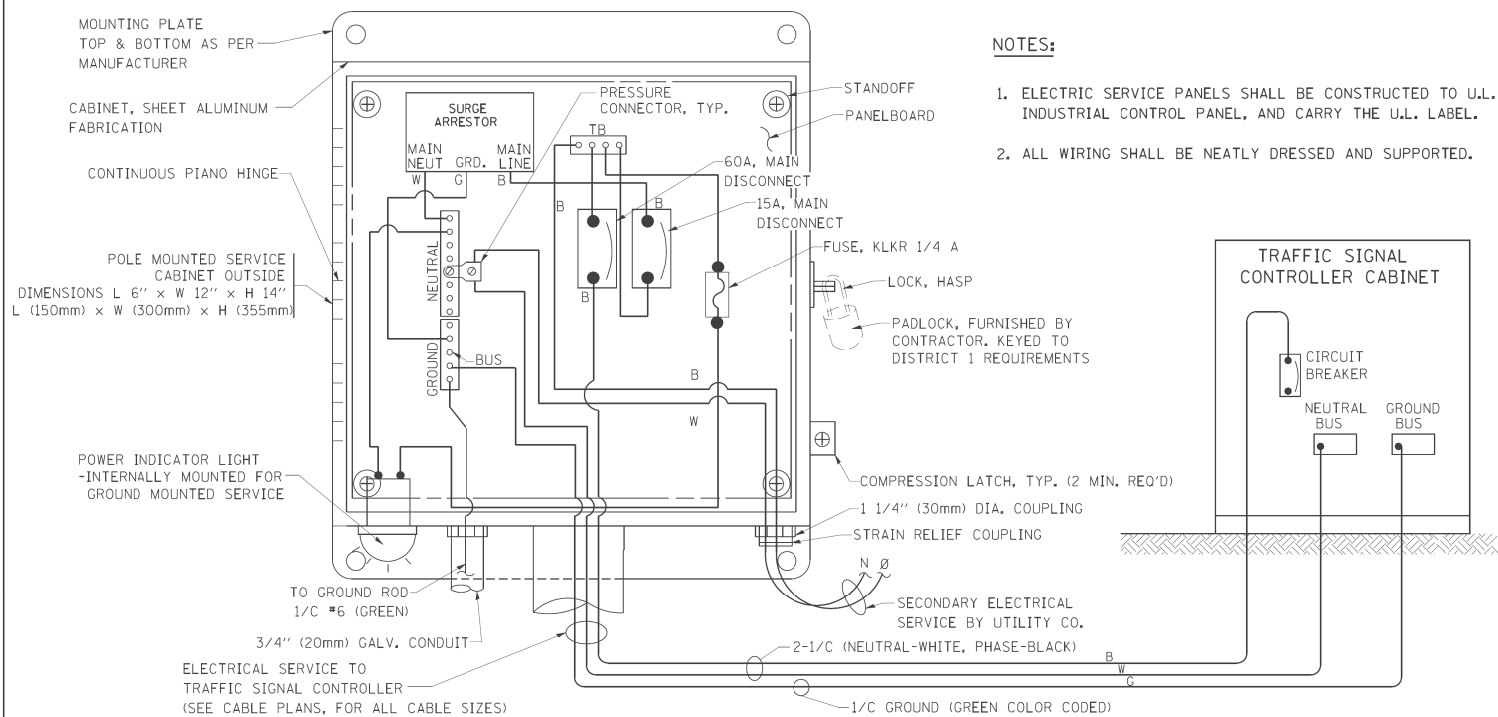
TOTAL SHEETS 932

SHEET NO. 453

CONTRACT NO. 60F05

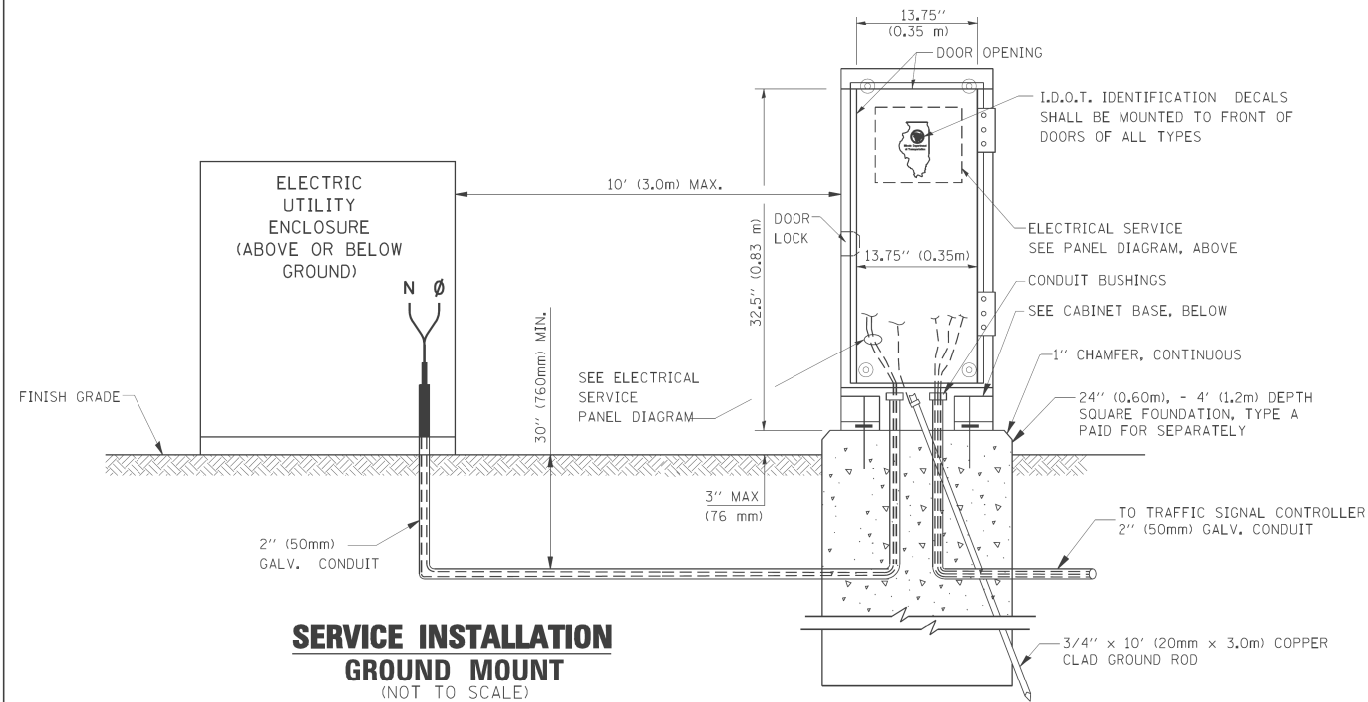
FED. ROAD DIST. NO. 1 ILLINOIS

FED. AID PROJECT

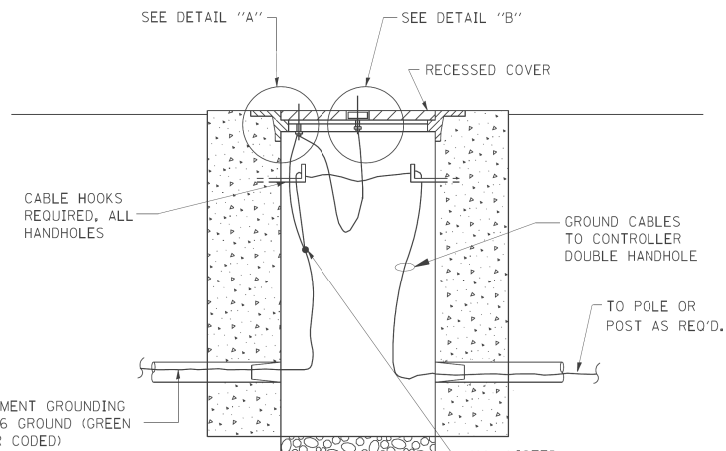
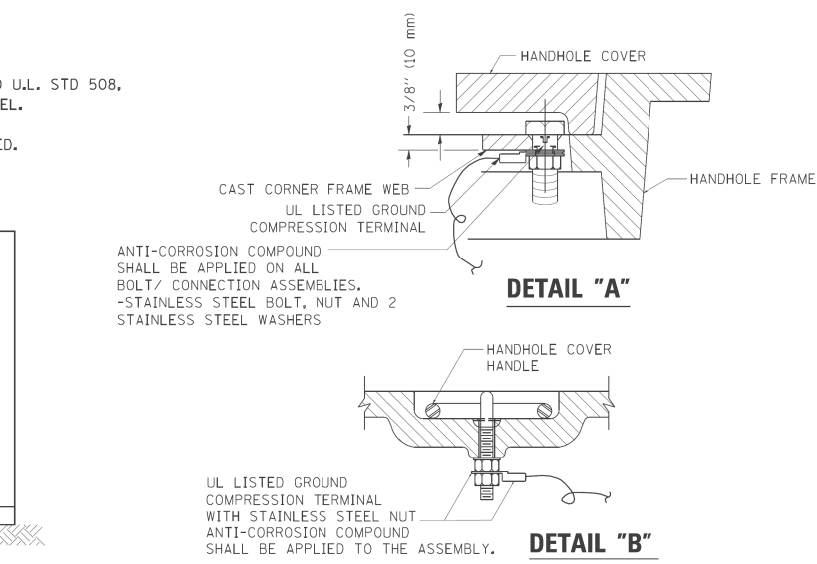
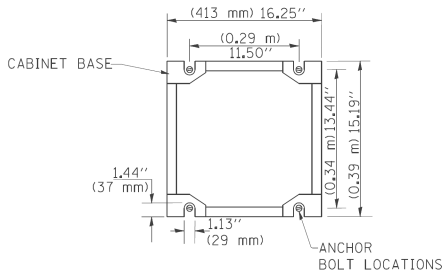


ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

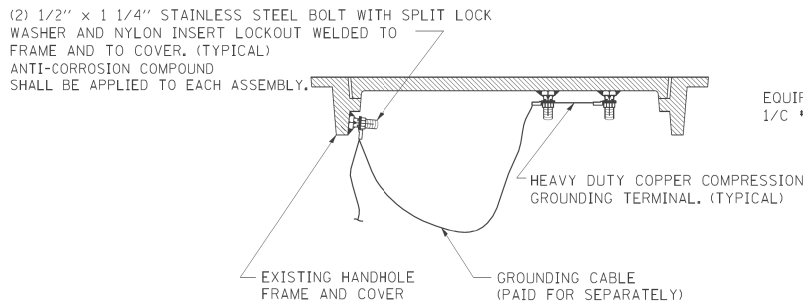
SERVICE INSTALLATION POLE MOUNT (SHOWN)  
(NOT TO SCALE)



CABINET – BASE BOLT PATTERN  
(NOT TO SCALE)



HANDHOLE COVER & FRAME – GROUNDING DETAIL  
(NOT TO SCALE)

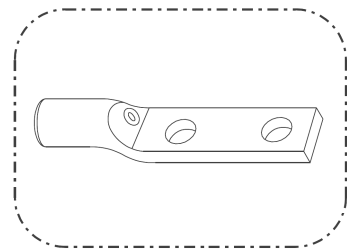


EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL  
(NOT TO SCALE)

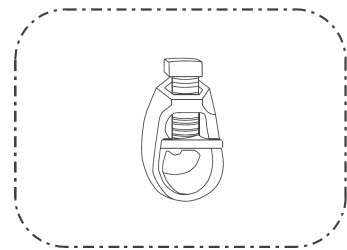
NOTES:

GROUNDING SYSTEM

- 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.
- 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.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



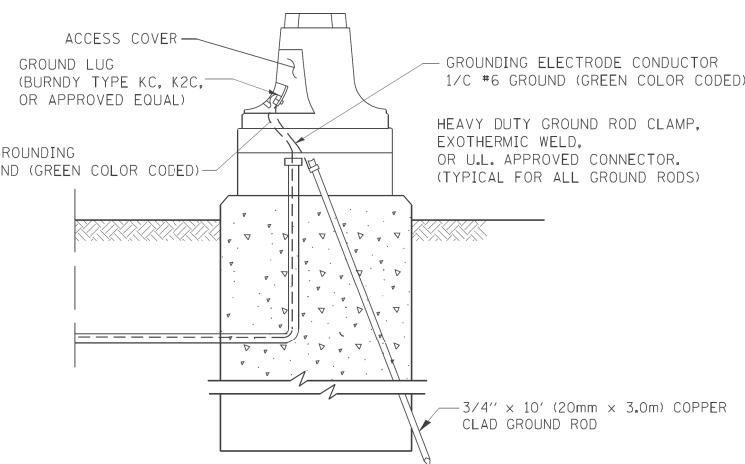
HEAVY-DUTY COMPRESSION TERMINAL  
(BURNDY TYPE YGHA OR APPROVED EQUAL)



3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP  
(BURNDY TYPE GRC OR APPROVED EQUAL)

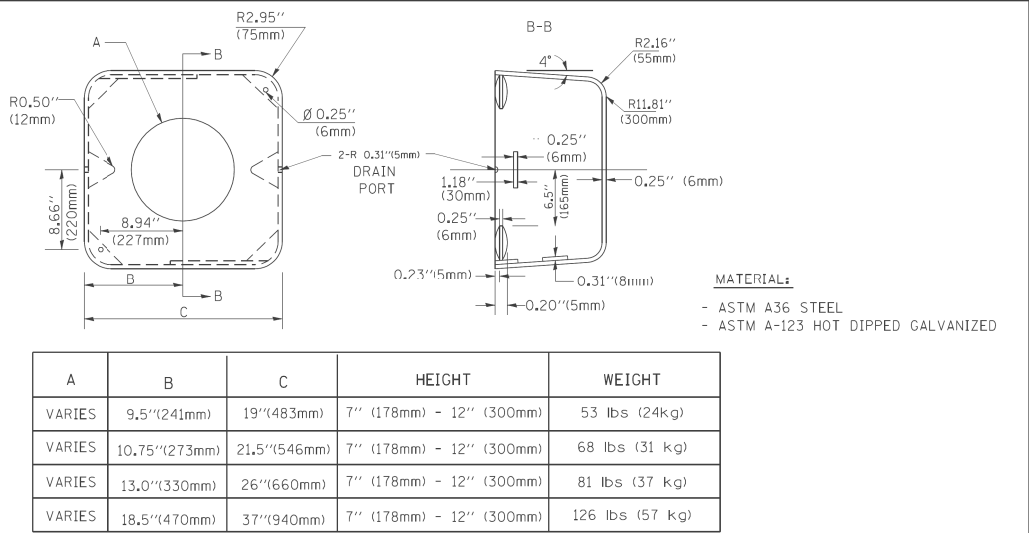
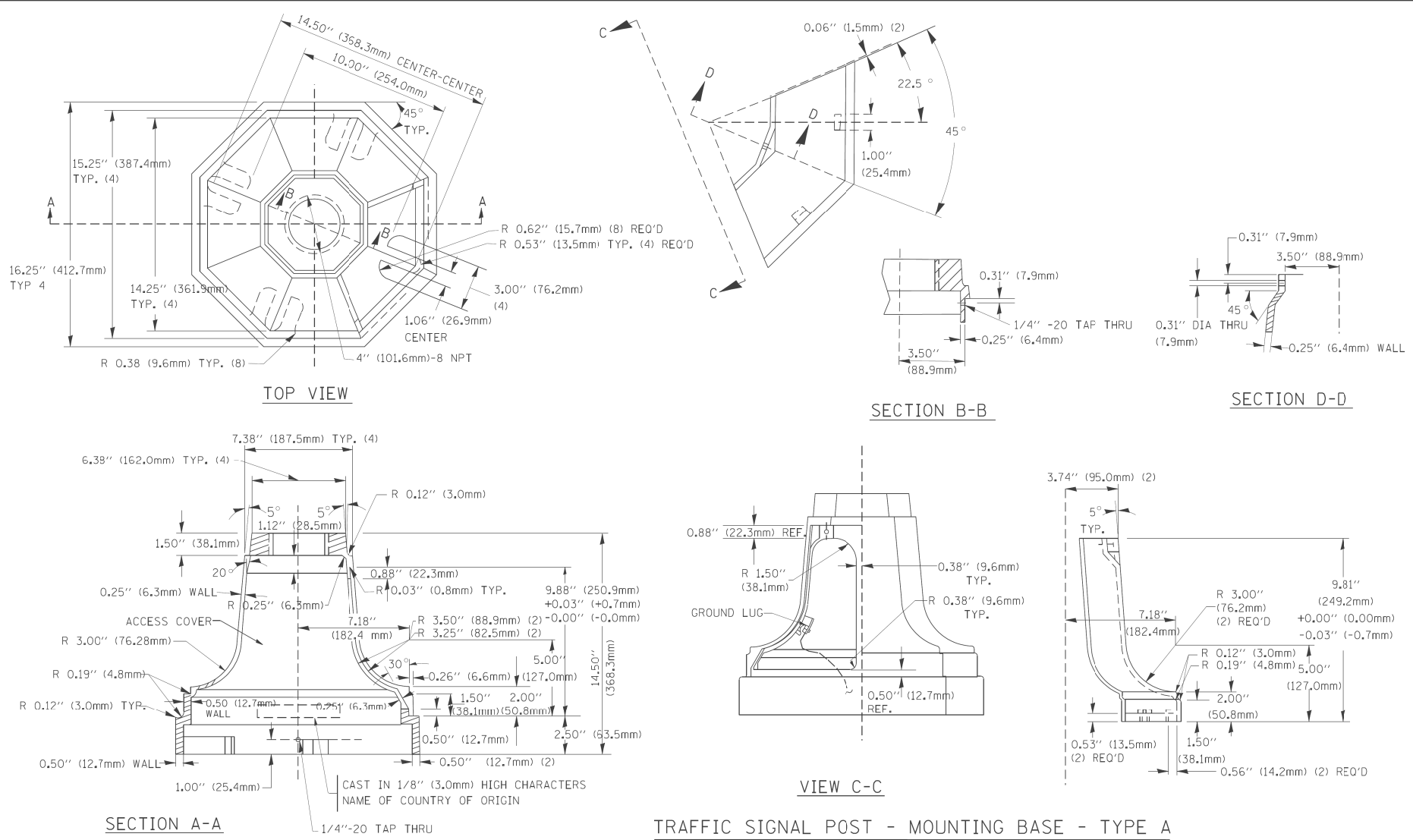
NOTES:

- 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.

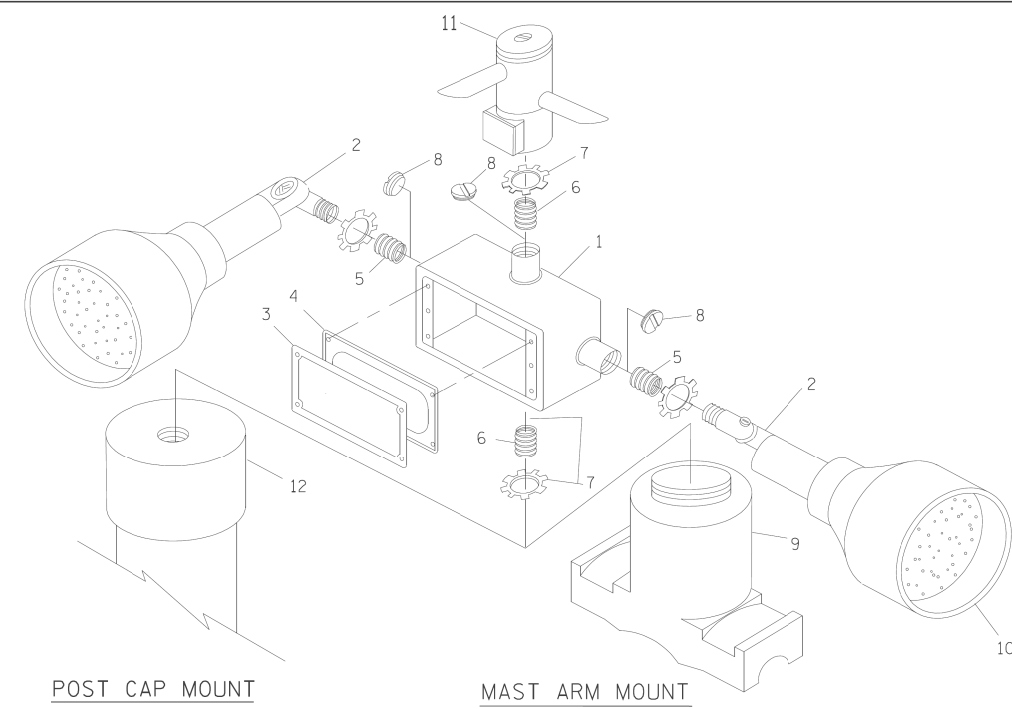
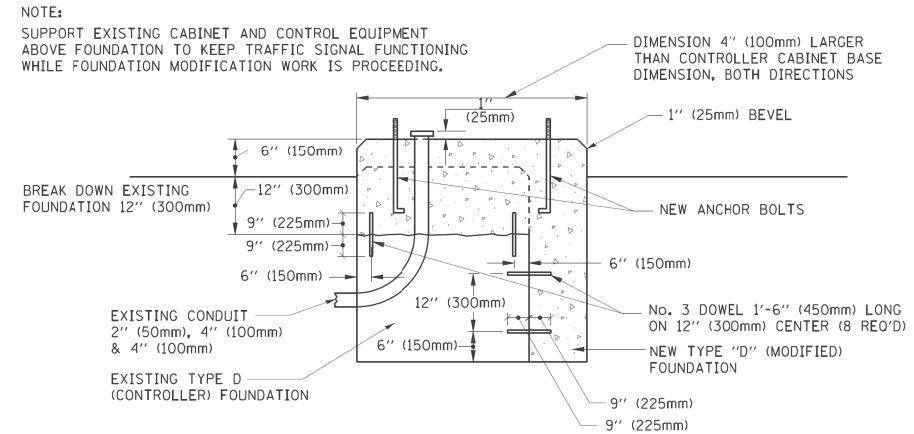


MAST ARM POLE / POST-GROUNDING DETAIL  
(NOT TO SCALE)

FILE NAME = c:\pwwork\pwi00t\BAUERDL\d0108315\ts05.dgn	USER NAME = bauerdl	DESIGNED - DAD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - BCK	REVISED -				330	103R-3	COOK	932	454
	PLOT SCALE = 50,0000 ' / IN.	CHECKED - DAD	REVISED -				TS-05				
	PLOT DATE = 11/4/2009	DATE - 10-28-09	REVISED -				CONTRACT NO. 60F05				
		SCALE: NONE					SHEET NO. 3	OF 6	SHEETS	STA.	TO STA.
						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

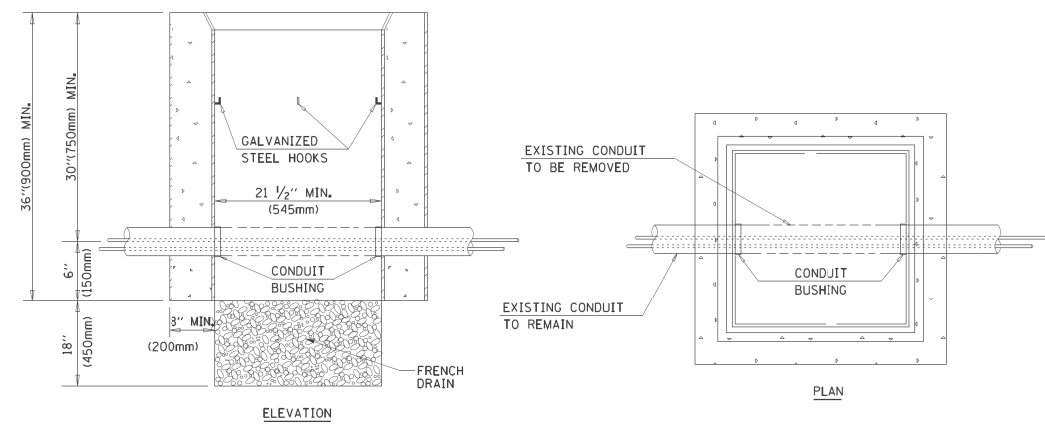


- NOTES:
- DIMENSION "A" IS EOLAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
  - THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
  - THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NJTS AND MAST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

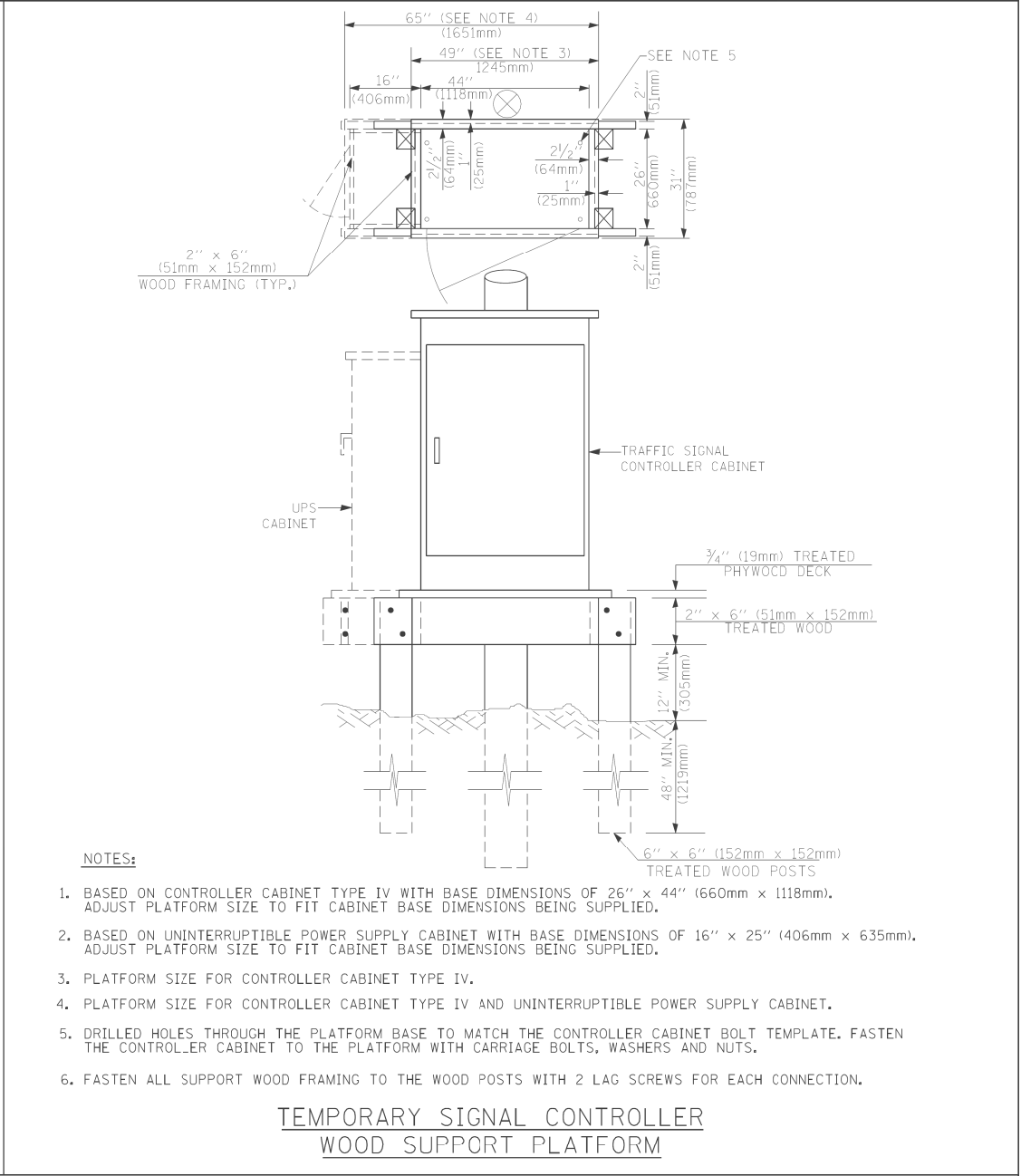
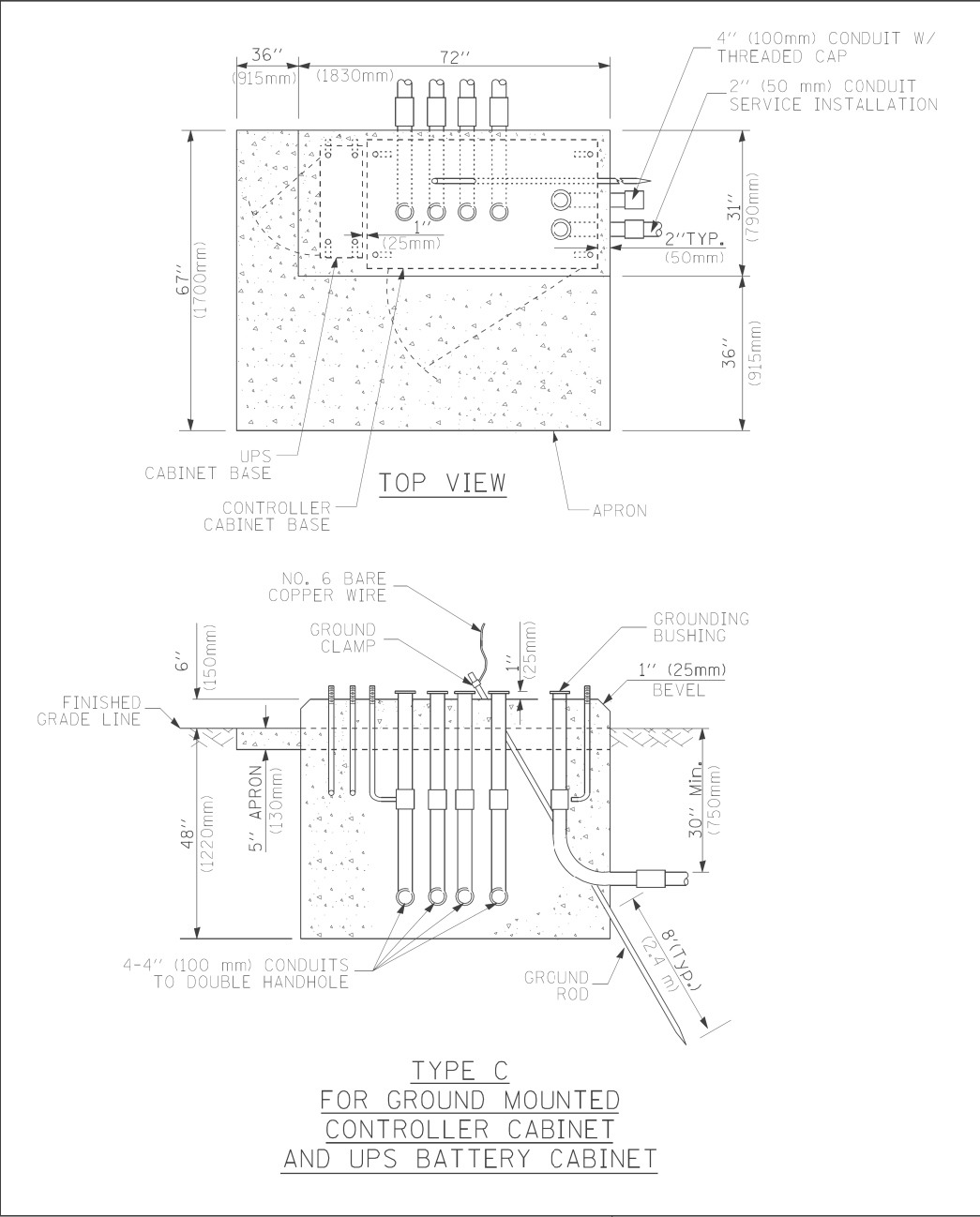
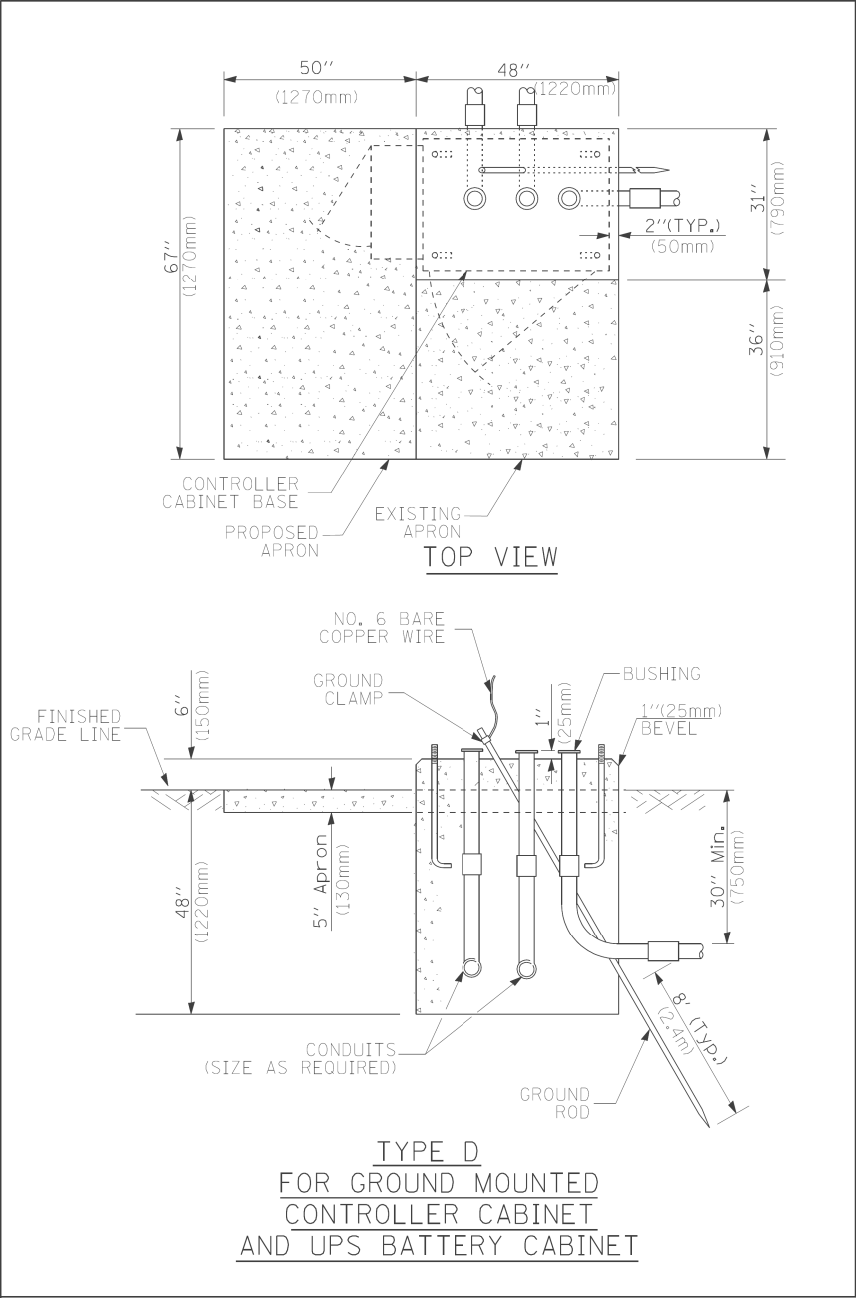


ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4\"(19 mm) CLOSE NIPPLE
7	3/4\"(19 mm) LOCKNUT
8	3/4\"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT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



- NOTES:**
1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
  2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
  3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
  4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
  5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
  6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**

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)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

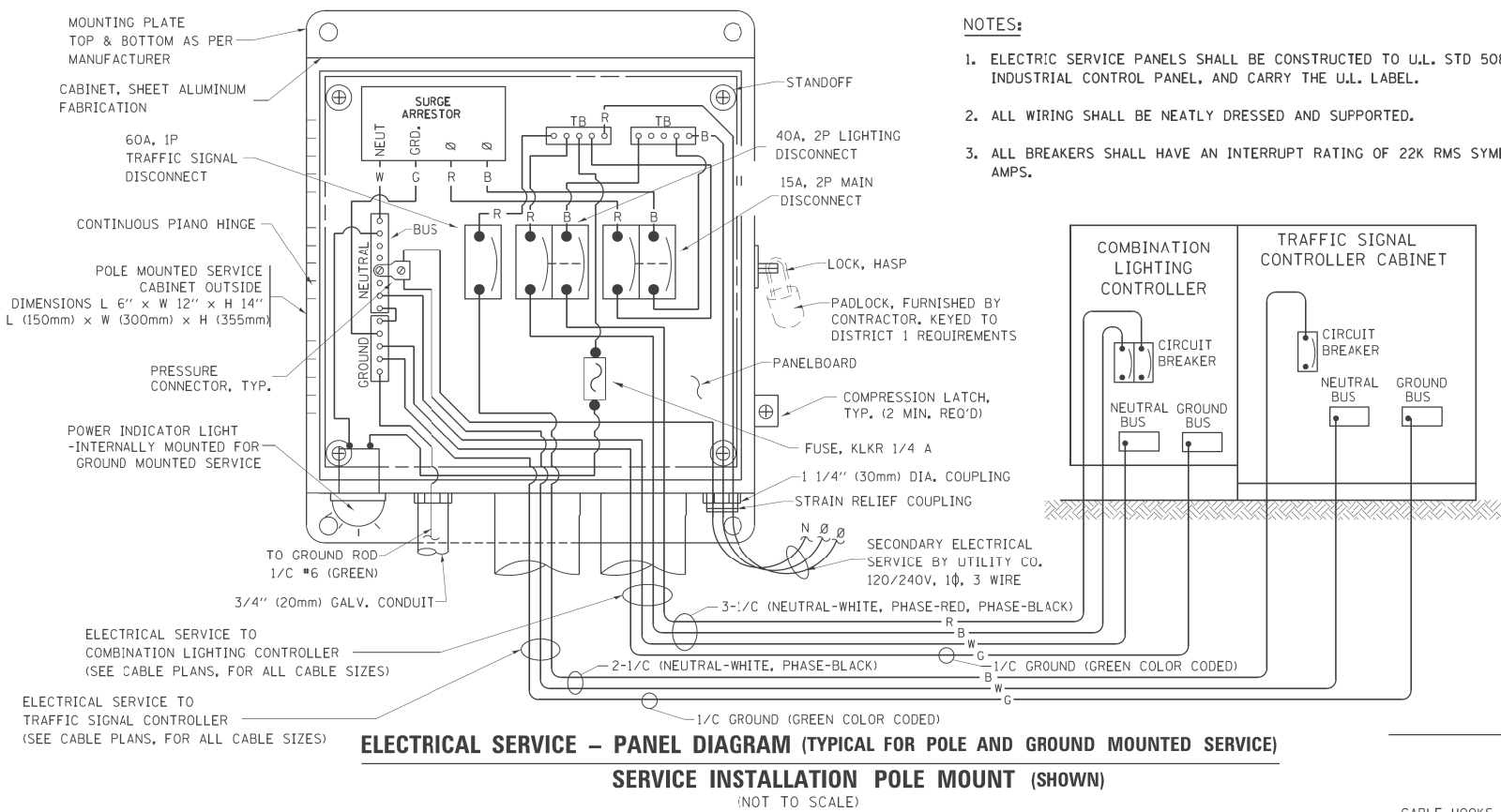
- NOTES:**
1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by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

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

TRAFFIC SIGNAL LEGEND

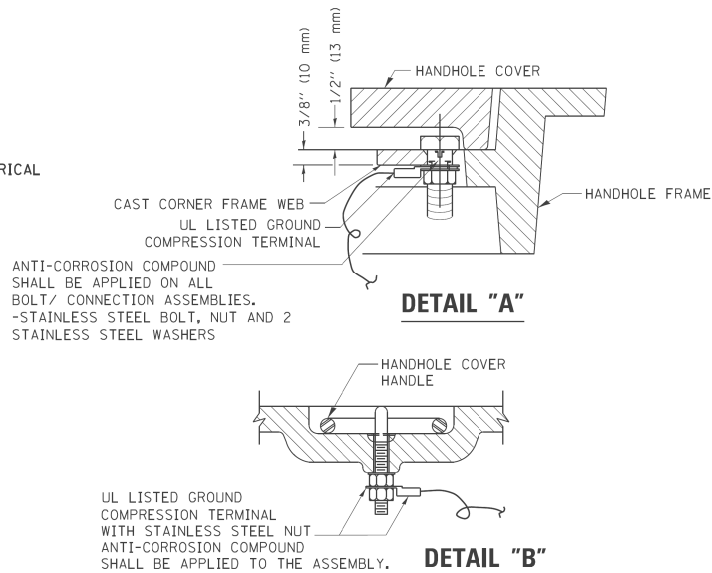
ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS 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)							
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							
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)							
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
SIGNAL POST				REMOVE ITEM				STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
GUY WIRE				ABANDON ITEM				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED			
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				SIGNAL POST AND FOUNDATION TO BE REMOVED			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE							
SIGNAL HEAD WITH BACKPLATE											
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE							
FLASHER INSTALLATION (S DENOTES SOLAR POWER)											
PEDESTRIAN SIGNAL HEAD											
PEDESTRIAN PUSHBUTTON DETECTOR				SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD							
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR											
ILLUMINATED SIGN "NO LEFT TURN"				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL							
ILLUMINATED SIGN "NO RIGHT TURN"				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED							
DETECTOR LOOP, TYPE I				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID							
PREFORMED DETECTOR LOOP				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER							
MICROWAVE VEHICLE SENSOR											
VIDEO DETECTION CAMERA				RADIO INTERCONNECT				RAILROAD CONTROL CABINET			
VIDEO DETECTION ZONE				RADIO REPEATER				RAILROAD CANTILEVER MAST ARM			
PAN, TILT, ZOOM CAMERA				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED				FLASHING SIGNAL			
WIRELESS DETECTOR SENSOR				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)				CROSSING GATE			
WIRELESS ACCESS POINT								CROSSBUCK			

FILE NAME = c:\pwwork\pwi00t\BAUERDL\d0108315\ts05.dgn	USER NAME = bauerdl	DESIGNED - DAG/BCK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - BCK	REVISED -									330	103R-3	COOK	932	457
		CHECKED - DAD	REVISED -									TS-05		CONTRACT NO. 60F05		
		DATE - 11/4/2009	REVISED -									FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
								SCALE: NONE	SHEET NO. 6 OF 6 SHEETS			STA. TO STA.				



NOTES:

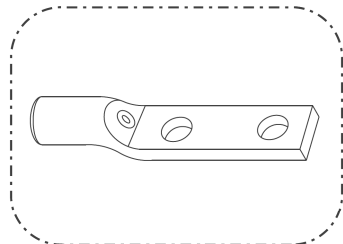
1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
3. ALL BREAKERS SHALL HAVE AN INTERRUPT RATING OF 22K RMS SYMETRICAL AMPS.



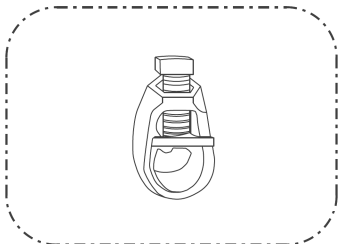
NOTES:

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.



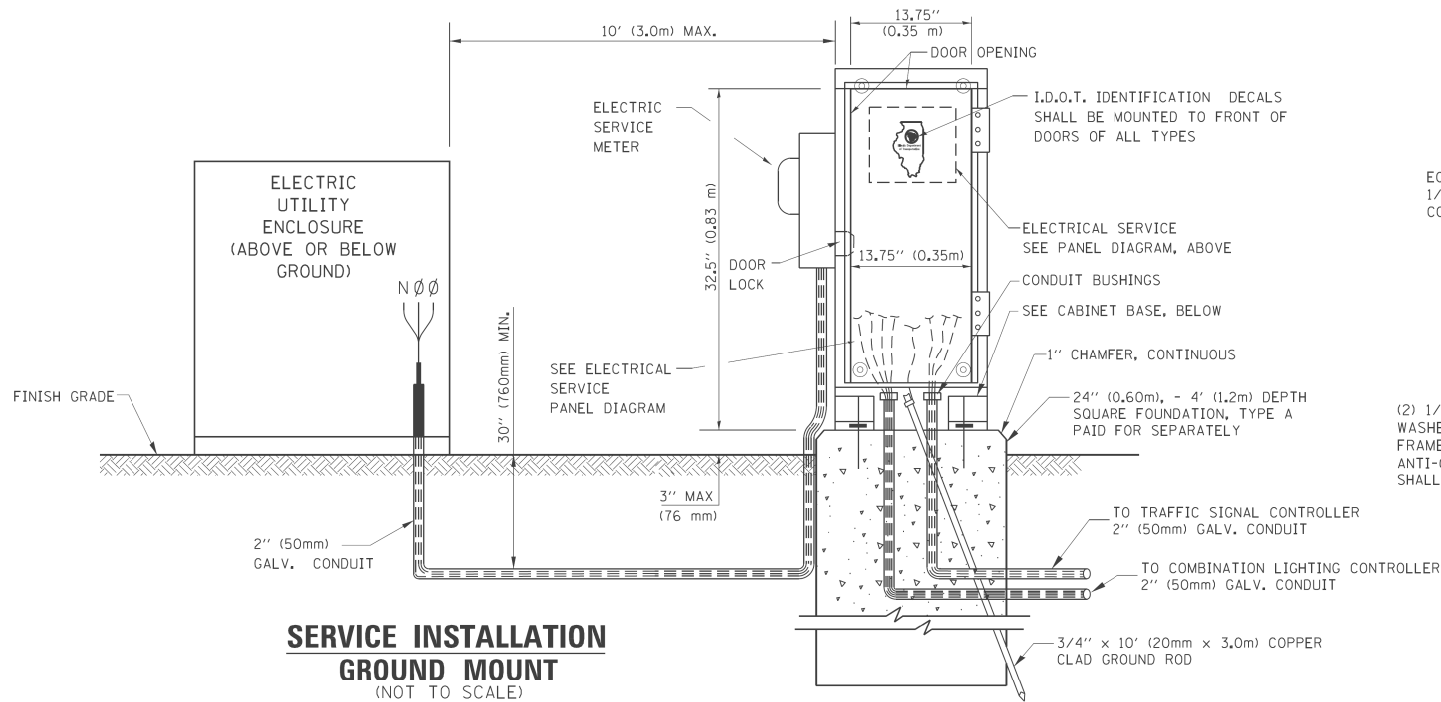
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

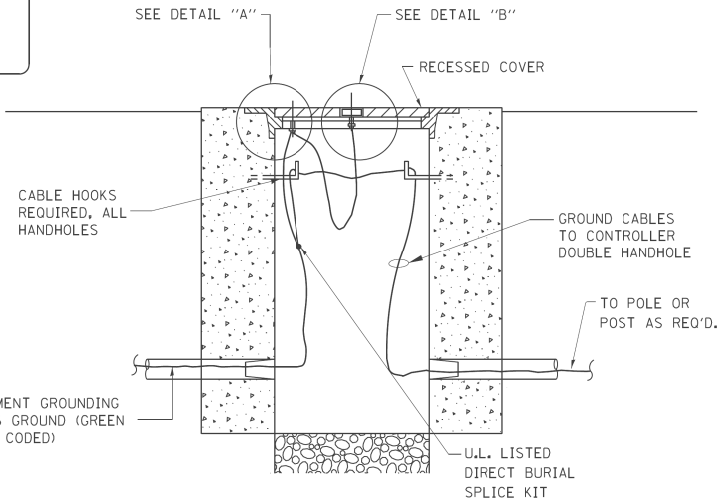
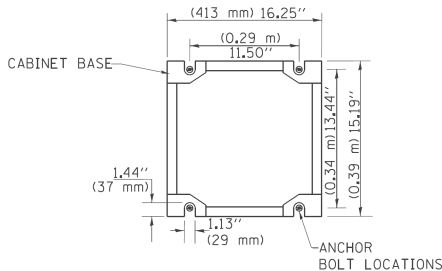
NOTES:

- 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.



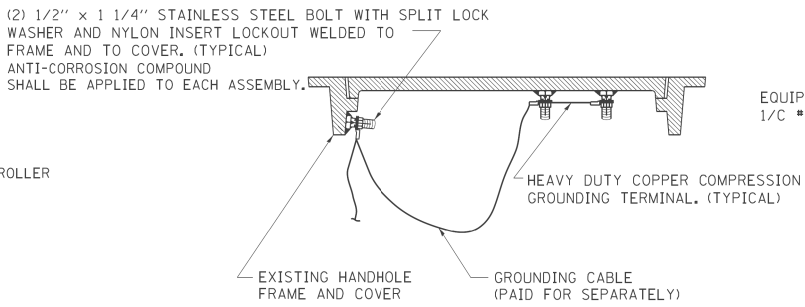
SERVICE INSTALLATION  
GROUND MOUNT  
(NOT TO SCALE)

CABINET - BASE BOLT PATTERN  
(NOT TO SCALE)



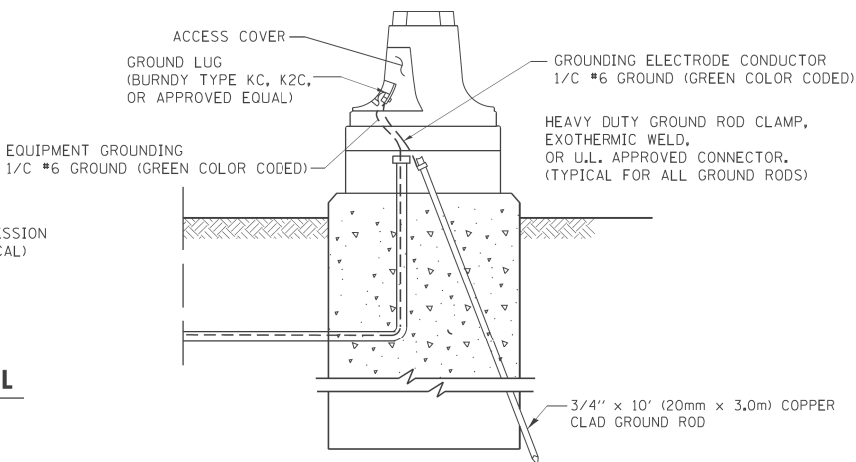
HANDHOLE COVER & FRAME - GROUNDING DETAIL

(NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL

(NOT TO SCALE)

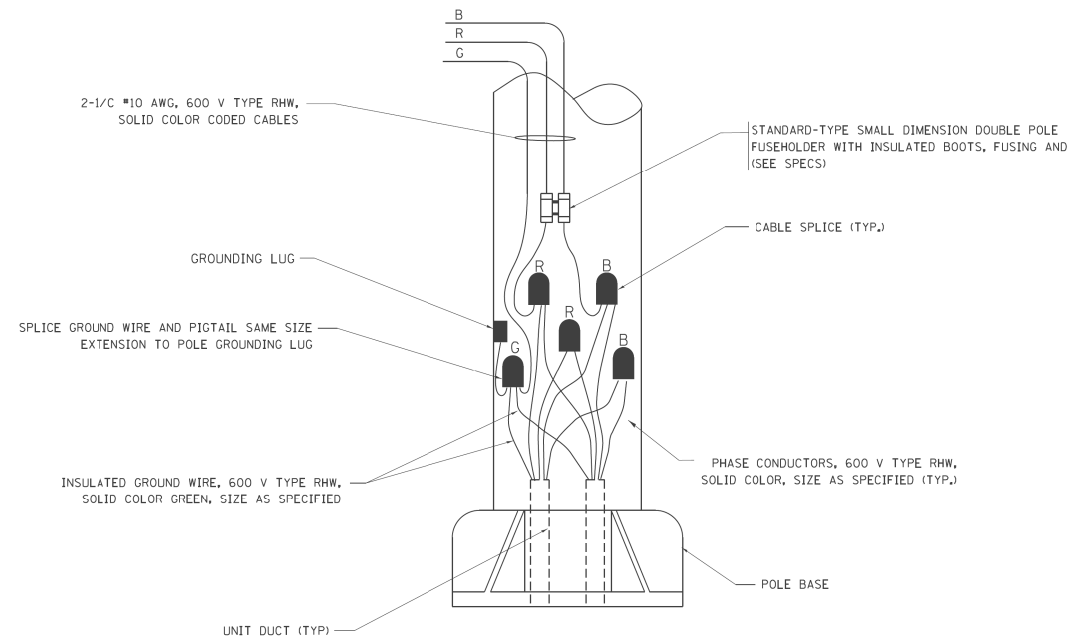


MAST ARM POLE / POST-GROUNDING DETAIL

(NOT TO SCALE)

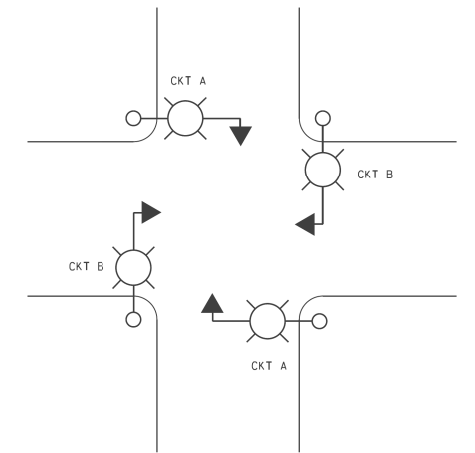
FILE NAME = c:\p\work\p\tdot\poulterma\d0259217\ComboDisconnectDetail.dgn	USER NAME = poulterma	DESIGNED - DAD	REVISED - MAP	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 STANDARD COMBINATION LIGHTING DISCONNECT					F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - BCK	REVISED -		330	103R-3	COOK	932	458					
	PLOT SCALE = 999.9980 ' / in.	CHECKED - DAD	REVISED -		CONTRACT NO. 60F05									
	PLOT DATE = 9/20/2011	DATE - 8/24/11	REVISED -		SCALE:	SHEET NO. 7 OF 7 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT			

## PANEL EQUIPMENT



### POLE WIRING DETAIL

(NOT TO SCALE)



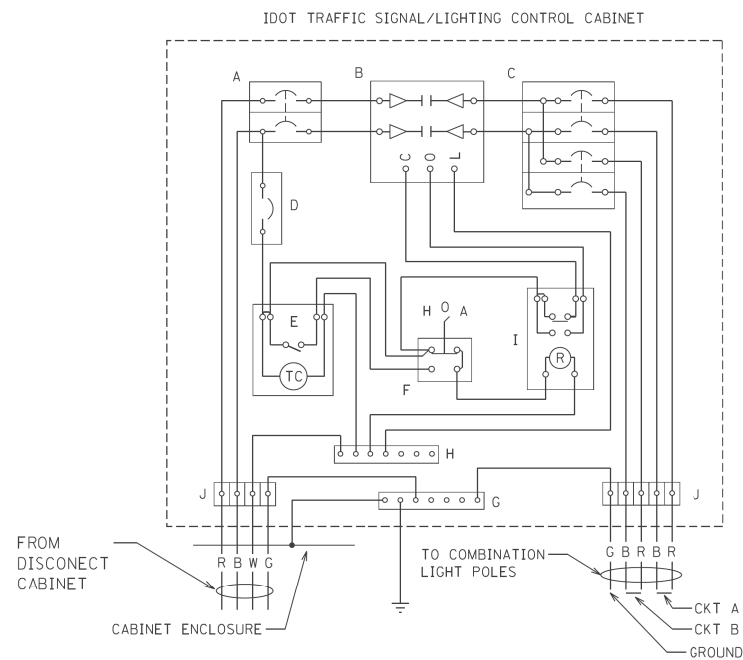
## TYPICAL LIGHTING LAYOUT

(NOT TO SCALE)

BILL OF MATERIALS		
ITEM	QUANTITY	DESCRIPTION
A	1	CIRCUIT BREAKER, THERMAL MAGNETIC MOLDED CASE, 2 POLE, 240 VOLT 100 AMP FRAME, 30 AMP TRIP, INTERRUPTING RATING 22K RMS SYMETRICALL AMP
B	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 30 AMP., 600 VOLTS CONTROL CIRCUIT 120 VOLT.
C	2	CIRCUIT BREAKERS, 2 POLE, 100 AMP. FRAME 20 AMP. NON-INTERCHANGABLE TRIP INTERRUPTING RATING NEMA 10,000 AMP AT 240 V.
D	1	CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 100 AMP FRAME, 15 AMP NON-INTERCHANGABLE TRIP, INTERRUPTING RATING 22K RMS SYMETRICAL AMP AT 240V.
E	1	ASTRONMIC MICROPROCESSOR-BASED 2-CHANNEL CONTROLLER [TIME SWITCH]
F	1	H-0-A SWITCH
G	1	COPPER GROUND BUS 1/4" (6,35) X 1" (25,4) X 12" (304,8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
H	1	COPPER NEUTRAL BUS 1/4" (6,35) X 1" (25,4) X 12" (304,8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
I	1	RELAY, 2 POLE, SINGLE THROW, 120 VOLT COIL, CURRENT RATING TO BE COORDINATED WITH CONTACTOR
J	2	TERMINAL BLOCK

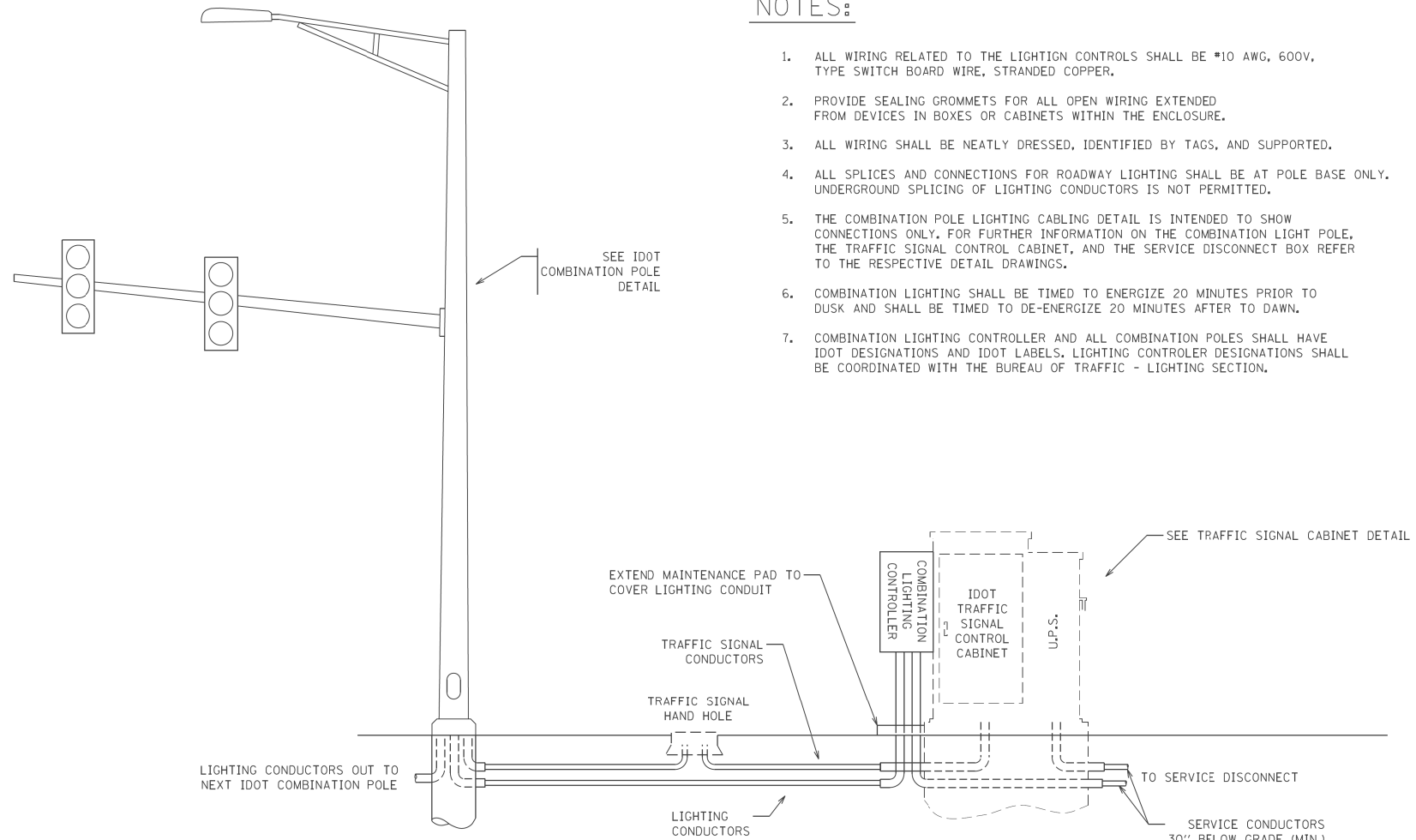
NOTES:

1. ALL WIRING RELATED TO THE LIGHTING CONTROLS SHALL BE #10 AWG, 600V, TYPE SWITCH BOARD WIRE, STRANDED COPPER.
2. PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE ENCLOSURE.
3. ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED.
4. ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY. UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED.
5. THE COMBINATION POLE LIGHTING CABLING DETAIL IS INTENDED TO SHOW CONNECTIONS ONLY. FOR FURTHER INFORMATION ON THE COMBINATION LIGHT POLE, THE TRAFFIC SIGNAL CONTROL CABINET, AND THE SERVICE DISCONNECT BOX REFER TO THE RESPECTIVE DETAIL DRAWINGS.
6. COMBINATION LIGHTING SHALL BE TIMED TO ENERGIZE 20 MINUTES PRIOR TO DUSK AND SHALL BE TIMED TO DE-ENERGIZE 20 MINUTES AFTER TO DAWN.
7. COMBINATION LIGHTING CONTROLLER AND ALL COMBINATION POLES SHALL HAVE IDOT DESIGNATIONS AND IDOT LABELS. LIGHTING CONTROLLER DESIGNATIONS SHALL BE COORDINATED WITH THE BUREAU OF TRAFFIC - LIGHTING SECTION.



## COMBINATION LIGHTING CONTROLLER WIRING DIAGRAM

(NOT TO SCALE)



## COMBINATION POLE LIGHTING CABLING - TYPICAL

(NOT TO SCALE)

FILE NAME =	USER NAME = poulerma	DESIGNED - MP	REVISED - MAP 9/20/11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COMBINATION LIGHTING CONTROLLER	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw_work\pwwork\poulerma\d0206851\ProjectBackController.dgn	DRAWN - MP	REVISED -				330	103R-3	COOK	932	459
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -				CONTRACT NO. 60F05				
PLOT DATE = 9/20/2011	DATE - 8/24/11	REVISED -				SCALE: NTS	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	
				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 SHOULDERS, MEDIANS, 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.

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

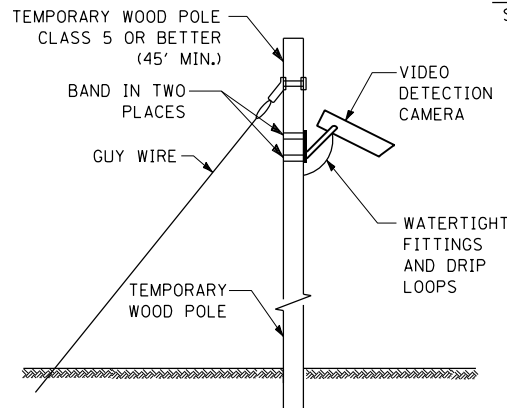
SIGN - (A)  
**LEFT ON  
GREEN  
ARROW  
ONLY**

R10-5  
24" X 30" (TYP)  
SIGN PANEL TYPE 1  
2 REQUIRED

AERIAL CABLE  
"A"  
TEMPORARY WOOD POLE  
STA. 35+51.52, 61.4' LT.

TEMPORARY RADIO INTERCONNECT  
TO 183RD STREET

TEMPORARY WOOD POLE  
STA. 35+50.50, 89.2' RT.



**TEMPORARY VIDEO DETECTION  
MOUNTING DETAIL**  
(NOT TO SCALE)

SEE SHEET TD-02  
MATCH LINE STA. 909+60.00

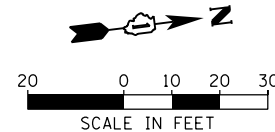
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: TINLEY PARK DEPARTMENT OF PUBLIC WORKS

- |   |      |                          |
|---|------|--------------------------|
| 3 | EACH | LIGHT DETECTOR           |
| 1 | EACH | LIGHT DETECTOR AMPLIFIER |

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

- |    |      |   |
|----|------|---|
| 1  | EACH | CONTROLLER AND CABINET ( COMPLETE )       |
| 6  | EACH | MAST ARM ASSEMBLY AND POLE                |
| 2  | EACH | SIGNAL POST                               |
| 11 | EACH | SIGNAL HEAD, 1-FACE, 3-SECTION            |
| 3  | EACH | SIGNAL HEAD, 1-FACE, 5-SECTION            |
| 1  | EACH | SIGNAL HEAD, 2-FACE, 3-SECTION, 5-SECTION |
| 1  | EACH | SIGNAL HEAD, 2-FACE, 5-SECTION            |
| 12 | EACH | TRAFFIC SIGNAL BACKPLATE                  |
| 1  | EACH | SERVICE INSTALLATION                      |



FAR OUT DETECTION ZONE  
250' FROM STOP BAR

**US ROUTE 45 (LAGRANGE ROAD)**

TEMPORARY WOOD POLE  
STA. 36+70.50, 82.3' LT.

TEMPORARY WOOD POLE  
STA. 36+84.91, 107.6' RT.

**CONSTRUCTION NOTES:**

- 1 ANY TEMPORARY TRAFFIC SIGNAL SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND DEACTIVATED. SEE CABLE PLANS FOR MORE DETAILS.
- 2 ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- 3 TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECT TO 183RD STREET IS INSTALLED AND OPERATIONAL.

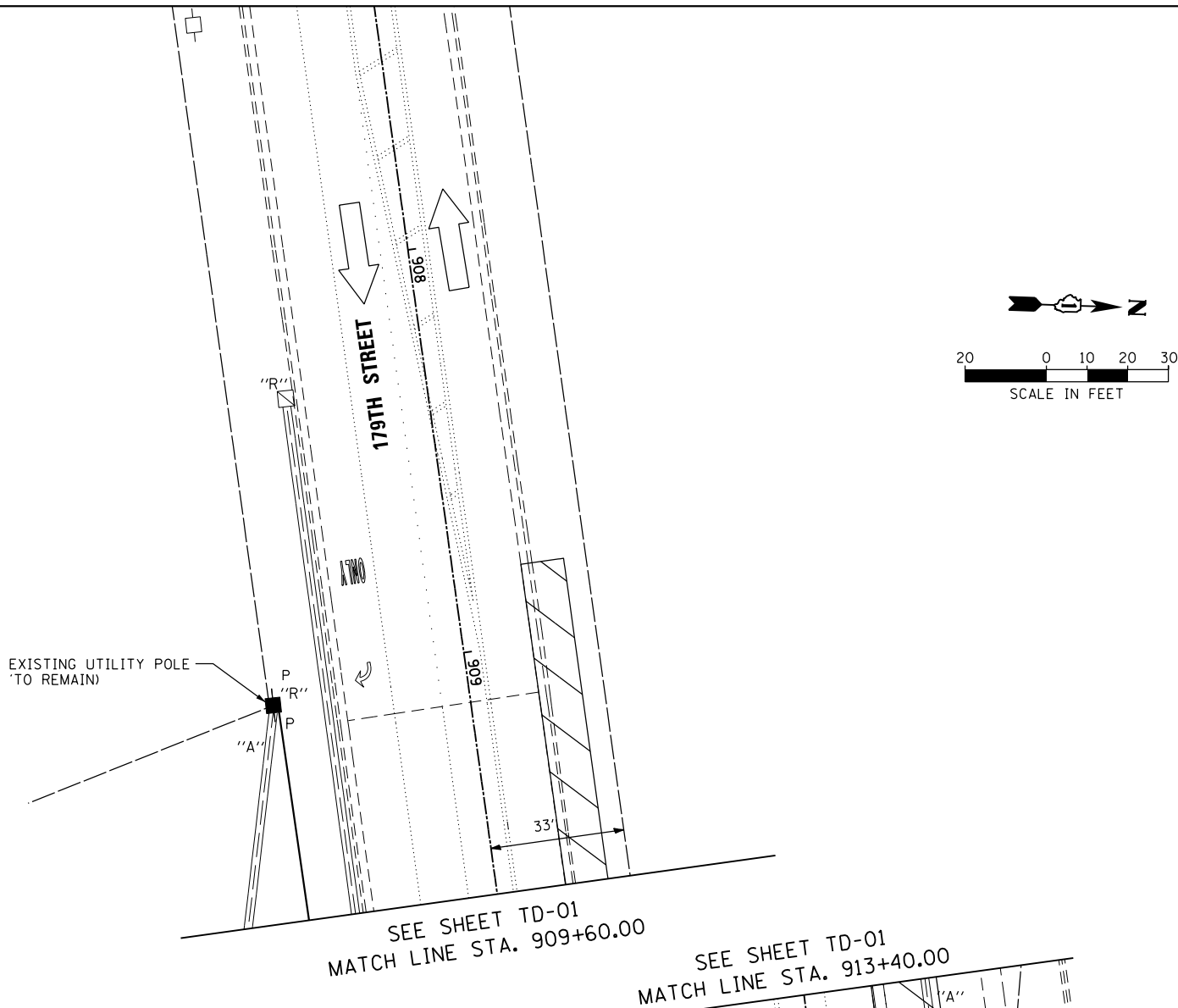
FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D160F05-SHT-TD01.dgn		DRAWN - MRF	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - MJL	REVISED -
SHT_PLAN	PLOT DATE = 3/14/2013	DATE - 03/13/13	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING  
TRAFFIC SIGNAL EQUIPMENT PLAN - PRE-STAGE  
US 45 (LAGRANGE ROAD) AND 179TH STREET**

SCALE: 1"=20' SHEET 1 OF 7 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	460
TD-01		CONTRACT NO. 60F05		
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 SHOULDERS, MEDIANS, 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.

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

**NOTES FOR TEMPORARY TRAFFIC SIGNAL:**

- ALL CONTROL EQUIPMENT SUCH AS COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
- ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
- ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.

**CONTINUATION OF THE NOTES FOR TEMPORARY TRAFFIC SIGNAL:**

- ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
- THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENT AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
- UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
- TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
- DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
- WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D160F05-SHT-TD02.dgn		DRAWN - MRF	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - MJL	REVISED -
SHT_PLAN	PLOT DATE = 3/14/2013	DATE - 03/13/13	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING  
TRAFFIC SIGNAL EQUIPMENT PLAN - PRE-STAGE  
US 45 (LAGRANGE ROAD) AND 179TH STREET

SCALE: 1"=20' SHEET 2 OF 7 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	461
TD-02		CONTRACT NO. 60F05		
ILLINOIS		FED. AID PROJECT		

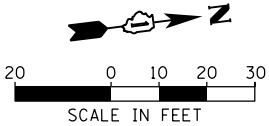
RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL 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.

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

TEMPORARY RADIO INTERCONNECT  
TO 183RD STREET

FAR OUT DETECTION ZONE  
250' FROM STOP BAR

EXIST. R.O.W.



FAR OUT DETECTION ZONE  
250' FROM STOP BAR

US ROUTE 45 (LAGRANGE ROAD)

US ROUTE 45 (LAGRANGE ROAD)

CONSTRUCTION NOTES:

- 1 ANY TEMPORARY TRAFFIC SIGNAL SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND DEACTIVATED. SEE CABLE PLANS FOR MORE DETAILS.
- 2 ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- 3 TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECT TO 183RD STREET IS INSTALLED AND OPERATIONAL.

SIGN - (A)



R10-5  
24" X 30" (TYP)  
SIGN PANEL TYPE 1  
2 REQUIRED

FILE NAME =  
D160F05-SHT-TD03.dgn

USER NAME = Frank.Stallone

DESIGNED - MRF

REVISED -

DRAWN - MRF

REVISED -

PLOT SCALE = 40.0000' / in.

CHECKED - MJL

REVISED -

PLOT DATE = 3/14/2013

DATE - 03/13/13

REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION - STAGE 1  
US 45 (LAGRANGE ROAD) AND 179TH STREET

SCALE: 1"=20' SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	462
TD-03		CONTRACT NO. 60F05		
ILLINOIS FED. AID PROJECT				

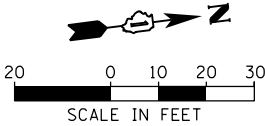
RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL 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.

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

TEMPORARY RADIO INTERCONNECT  
TO 183RD STREET

AERIAL CABLE

179TH STREET



EXIST. R.O.W.

FAR OUT DETECTION ZONE  
250' FROM STOP BAR

US ROUTE 45 (LAGRANGE ROAD)

US ROUTE 45 (LAGRANGE ROAD)

FAR OUT DETECTION ZONE  
250' FROM STOP BAR

CONSTRUCTION NOTES:

- 1 ANY TEMPORARY TRAFFIC SIGNAL SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND DEACTIVATED. SEE CABLE PLANS FOR MORE DETAILS.
- 2 ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- 3 TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECT TO 183RD STREET IS INSTALLED AND OPERATIONAL.

SIGN - (A)



R10-5  
24" X 30" (TYP)  
SIGN PANEL TYPE 1  
2 REQUIRED

FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D160F05-SHT-TD04.dgn		DRAWN - MRF	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - MJL	REVISED -
SHT_PLAN	PLOT DATE = 3/14/2013	DATE - 03/13/13	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION - STAGE 2  
US 45 (LAGRANGE ROAD) AND 179TH STREET

SCALE: 1"=20' SHEET 4 OF 7 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	463
TD-04		CONTRACT NO. 60F05		
		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 SHOULDERS, MEDIANS, 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.

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

TEMPORARY RADIO INTERCONNECT  
TO 183RD STREET

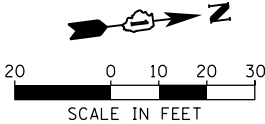
AERIAL CABLE

179TH STREET

EXIST. R.O.W.

TEMPORARY EASEMENT

EXIST. R.O.W.



US ROUTE 45 (LAGRANGE ROAD)

US ROUTE 45 (LAGRANGE ROAD)

FAR OUT DETECTION ZONE  
250' FROM STOP BAR

FAR OUT DETECTION ZONE  
250' FROM STOP BAR

CONSTRUCTION NOTES:

- ANY TEMPORARY TRAFFIC SIGNAL SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND DEACTIVATED. SEE CABLE PLANS FOR MORE DETAILS.
- ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECT TO 183RD STREET IS INSTALLED AND OPERATIONAL.

SIGN - (A)

LEFT ON  
GREEN  
ARROW  
ONLY

R10-5  
24" X 30" (TYP)  
SIGN PANEL TYPE 1  
2 REQUIRED

FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D160F05-SHT-TD05.dgn		DRAWN - MRF	REVISED -
		CHECKED - MJL	REVISED -
SHT_PLAN	PLOT DATE = 3/14/2013	DATE - 03/13/13	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION - STAGE 3  
US 45 (LAGRANGE ROAD) AND 179TH STREET

SCALE: 1"=20' SHEET 5 OF 7 SHEETS STA. TO STA.

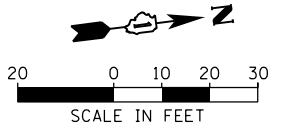
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	464
TD-05		CONTRACT NO. 60F05		
ILLINOIS FED. AID PROJECT				

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 SHOULDERS, MEDIANS, 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.

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

TEMPORARY RADIO INTERCONNECT TO 183RD STREET

AERIAL CABLE



EXIST. R.O.W.

FAR OUT DETECTION ZONE  
250' FROM STOP BAR

US ROUTE 45 (LAGRANGE ROAD)

US ROUTE 45 (LAGRANGE ROAD)

FAR OUT DETECTION ZONE  
250' FROM STOP BAR

CONSTRUCTION NOTES:

- 1 ANY TEMPORARY TRAFFIC SIGNAL SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND DEACTIVATED. SEE CABLE PLANS FOR MORE DETAILS.
- 2 ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- 3 TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECT TO 183RD STREET IS INSTALLED AND OPERATIONAL.

EXIST. R.O.W.

EXIST. R.O.W.

EXIST. R.O.W.

EXIST. R.O.W.

SIGN - (A)



R10-5  
24" X 30" (TYP)  
SIGN PANEL TYPE 1  
2 REQUIRED

FILE NAME =  
D160F05-SHT-TD06.dgn

USER NAME = Frank.Stallone

DESIGNED - MRF

REVISED -

DRAWN - MRF

REVISED -

PLOT SCALE = 40.0000' / in.

CHECKED - MJL

REVISED -

PLOT DATE = 3/14/2013

DATE - 03/13/13

REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

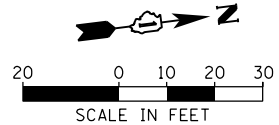
TEMPORARY TRAFFIC SIGNAL INSTALLATION - STAGE 4  
US 45 (LAGRANGE ROAD) AND 179TH STREET

SCALE: 1"=20' SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	465
TD-06		CONTRACT NO. 60F05		
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 SHOULDERS, MEDIANS, 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.

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



AERIAL CABLE

TEMPORARY RADIO INTERCONNECT  
TO 183RD STREET

EXIST. R.O.W.

FAR OUT DETECTION ZONE  
250' FROM STOP BAR

US ROUTE 45 (LAGRANGE ROAD)

US ROUTE 45 (LAGRANGE ROAD)

FAR OUT DETECTION ZONE  
250' FROM STOP BAR

CONSTRUCTION NOTES:

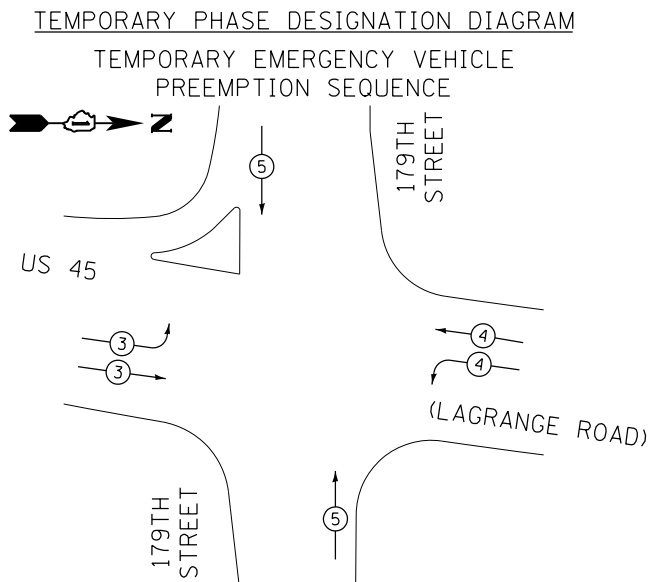
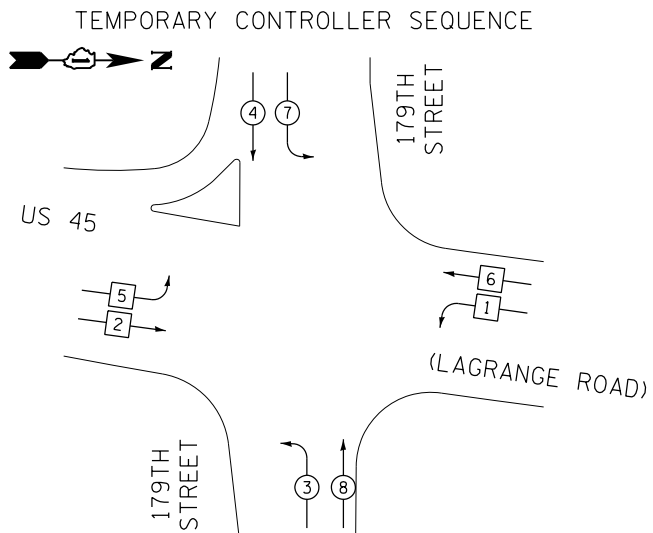
- 1 ANY TEMPORARY TRAFFIC SIGNAL SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND DEACTIVATED. SEE CABLE PLANS FOR MORE DETAILS.
- 2 ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- 3 TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECT TO 183RD STREET IS INSTALLED AND OPERATIONAL.



R10-5  
24" X 30" (TYP)  
SIGN PANEL TYPE 1  
2 REQUIRED

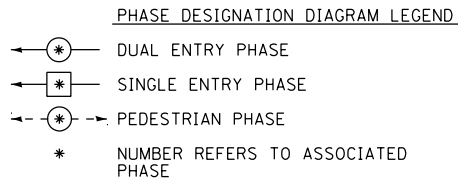
FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D160F05-SHT-TD07.dgn		DRAWN - MRF	REVISED -
		CHECKED - MJL	REVISED -
SHT_PLAN		DATE - 03/13/13	REVISED -

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	466
TD-07		CONTRACT NO. 60F05		
ILLINOIS FED. AID PROJECT				



TEMPORARY EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTORS	3	4	5
MOVEMENT			

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS						TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE (INCANDESC.)	LED	% OPERATION		
SIGNAL (RED)	18		17	0.50		153.0
(YELLOW)	18		25	0.25		112.5
(GREEN)	18		15	0.25		67.5
ARROW	8		12	0.10		9.6
PED. SIGNAL	--		25	1.00		0.0
CONTROLLER	1		100	1.00		100.0
ILLUM. SIGN	--		25	0.05		0.0
VIDEO SYSTEM	1		150	1.00		150.0
FLASHER			25	0.50		
ENERGY COST TO: 50% I.D.O.T. TOTAL = 592.6						
50% Village of Tinley Park						
ILLINOIS DEPARTMENT OF TRANSPORTATION						
DIVISION OF HIGHWAY/DISTRICT 1						
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096						
VILLAGE OF TINLEY PARK						
16250 S. OAK PARK AVE. TINLEY PARK, IL 60477						
ENERGY SUPPLY: CONTACT: KATHRYN SUGRUE						
PHONE: (708) 235-2337						
COMPANY: COMMONWEALTH EDISON						



TEMPORARY RADIO INTERCONNECT TO 183RD STREET

US ROUTE 45

179TH STREET

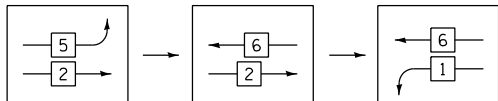
(LAGRANGE ROAD)

179TH STREET

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 SHOULDERS, MEDIANS, 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.

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

FOR PHASES 1, 2, 5, & 6 IN THE PHASE DESIGNATION DIAGRAM SHOWN AT TOP LEFT, THE FOLLOWING PHASE SEQUENCE SHALL BE FOLLOWED FOR STAGE 2:



PHASES 3, 4, 7, & 8 SHALL FOLLOW THE STANDARD SEQUENCE IN ACCORDANCE WITH STATE STANDARD 857001

### TEMPORARY CABLE PLAN

PRE-STAGE, STAGE 1, 1A, 1B, 2, 3, 3A, 3B, 3C, 4 & FINAL GEOMETRICS

CONSTRUCTION NOTES:

- TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECT TO 183RD STREET INTERSECTION IS INSTALLED AND OPERATIONAL.
- BAG AND DEACTIVATE SIGNAL SECTION DURING ALL STAGES EXCEPT STAGES 1A AND 3A.

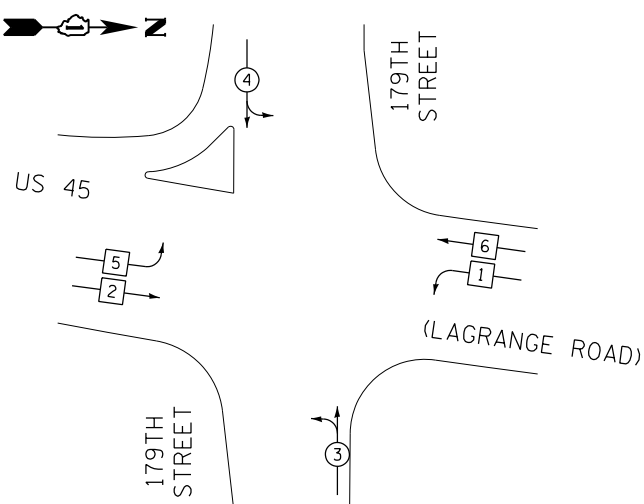
FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D160F05-SHT-TD08.dgn		DRAWN - MRF	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - MJL	REVISED -
SHT_PLAN	PLOT DATE = 3/14/2013	DATE - 03/13/13	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			
US 45 (LAGRANGE ROAD) AND 179th STREET - PRE-STAGE, STAGE 1, 1A, 1B, 2, 3, 3A, 3B, 3C, 4 & FINAL GEOMETRICS			
SCALE: N.T.S.	SHEET 1 OF 2 SHEETS	STA. TO STA.	

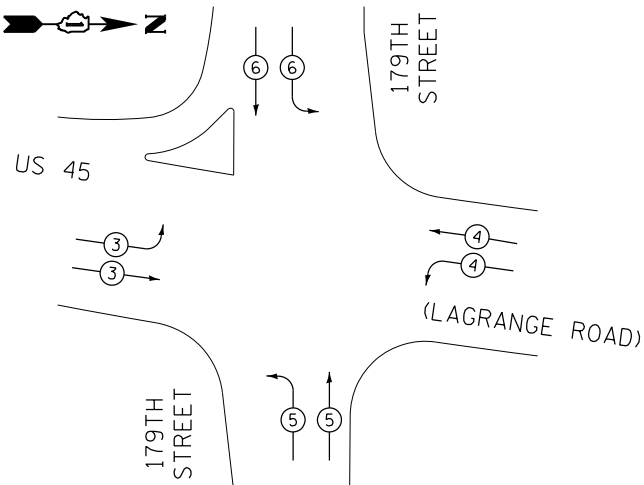
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	467
TD-08		CONTRACT NO. 60F05		
ILLINOIS		FED. AID PROJECT		

### TEMPORARY CONTROLLER SEQUENCE



### TEMPORARY PHASE DESIGNATION DIAGRAM

#### TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTORS	3	4	5	6
MOVEMENT				

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	16		17	0.50	136.0
(YELLOW)	16		25	0.25	100.0
(GREEN)	20		15	0.25	75.0
ARROW	--		12	0.10	0.0
PED. SIGNAL	--		25	1.00	0.0
CONTROLLER	1		100	1.00	100.0
ILLUM. SIGN	--		25	0.05	0.0
VIDEO SYSTEM	1		150	1.00	150.0
FLASHER			25	0.50	
ENERGY COST TO: 50% I.D.O.T. TOTAL =					561.0
50% Village of Tinley Park					

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAY/DISTRICT 1  
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096  
VILLAGE OF TINLEY PARK  
16250 S. OAK PARK AVE. TINLEY PARK, IL 60477  
ENERGY SUPPLY: CONTACT: KATHRYN SUGRUE  
PHONE: (708) 235-2337  
COMPANY: COMMONWEALTH EDISON

### PHASE DESIGNATION DIAGRAM LEGEND

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

TEMPORARY RADIO INTERCONNECT TO 183RD STREET

US ROUTE 45

179TH STREET

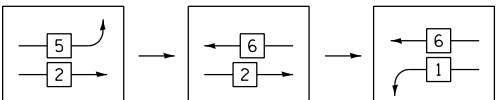
179TH STREET

### TEMPORARY CABLE PLAN STAGE 2A AND 2B

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 SHOULDERS, MEDIANS, 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.

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

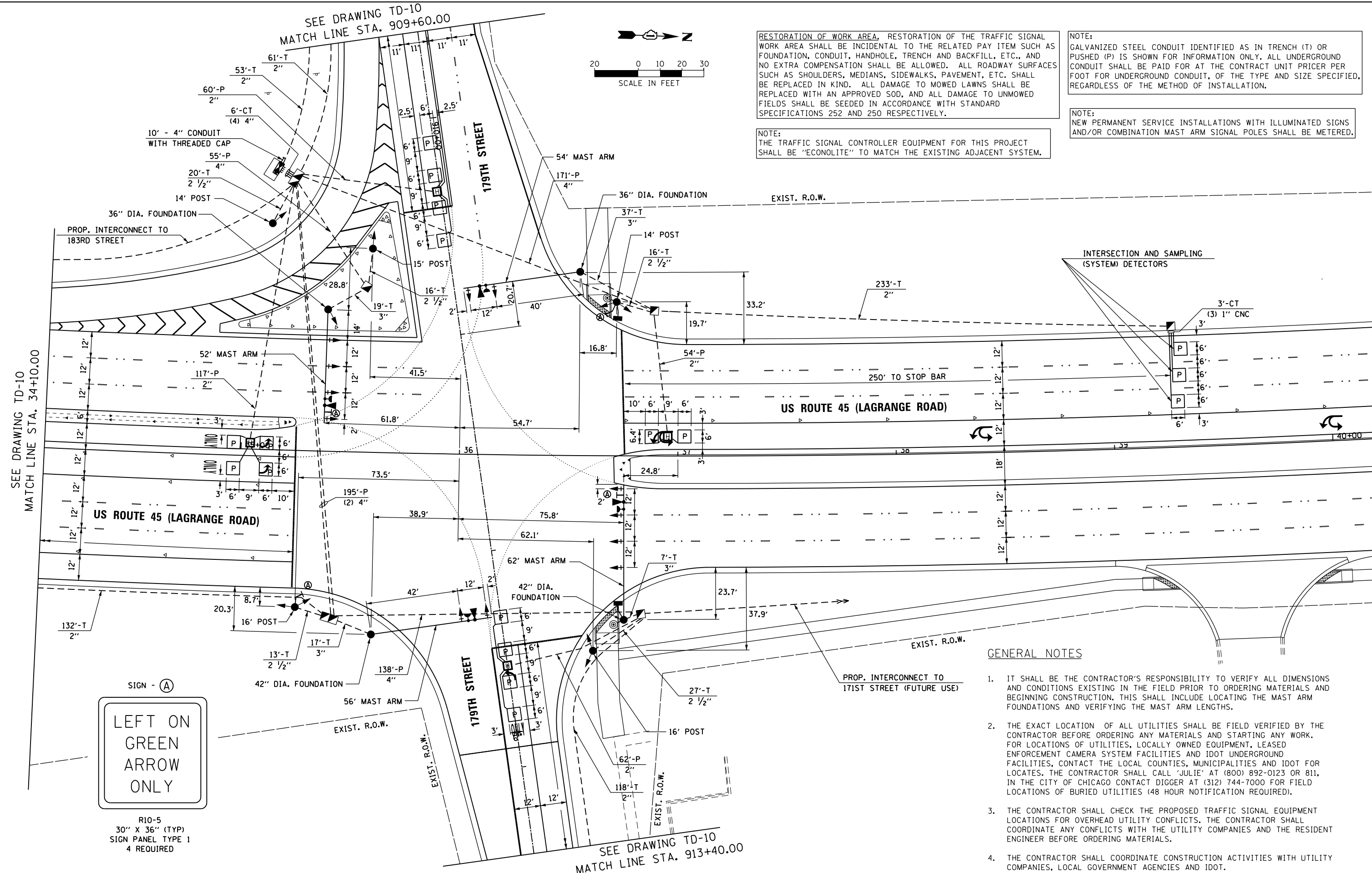
FOR PHASES 1, 2, 5, & 6 IN THE PHASE DESIGNATION DIAGRAM SHOWN AT TOP LEFT, THE FOLLOWING PHASE SEQUENCE SHALL BE FOLLOWED:



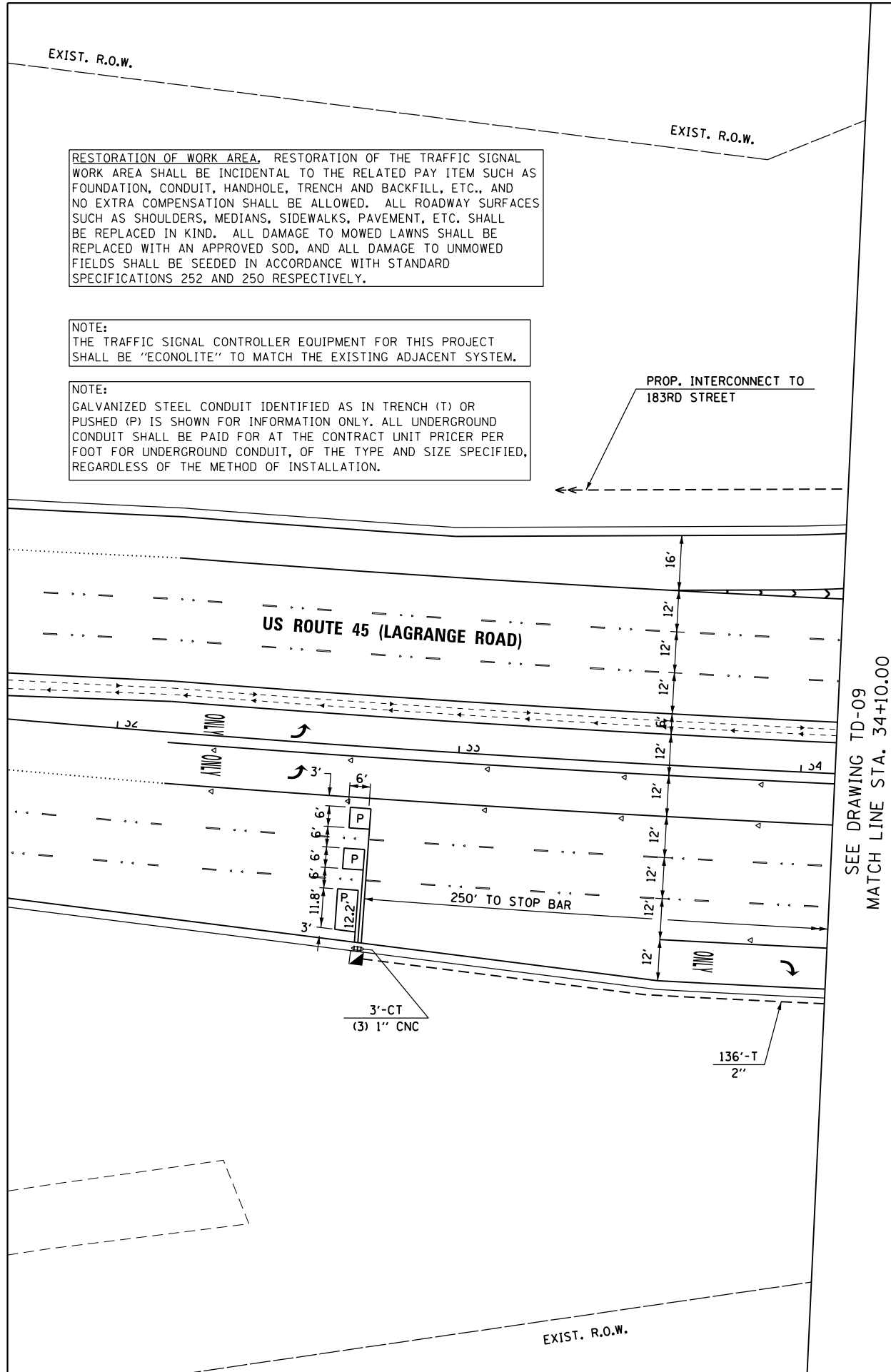
### CONSTRUCTION NOTES:

- TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECT TO 183RD STREET INTERSECTION IS INSTALLED AND OPERATIONAL.
- BAG AND DEACTIVATE SIGNAL SECTION DURING STAGES 2A AND 2B.

FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE US 45 (LAGRANGE ROAD) AND 179th STREET - STAGE 2A AND 2B	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
D160F05-SHT-TD08B.dgn		DRAWN - MRF	REVISED -			330	103R-3	COOK	932	468	
SHT_PLAN		CHECKED - MJL	REVISED -			TD-08B		CONTRACT NO. 60F05			
	PLOT DATE = 3/14/2013	DATE - 03/13/13	REVISED -			SCALE: N.T.S.	SHEET 2 OF 2 SHEETS	STA.	TO STA.		



FILE NAME = D160F05-SHT-TD09.dgn	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL INSTALLATION PLAN US 45 (LAGRANGE ROAD) AND 179TH STREET	F.A.P RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - MRF	REVISED -			330	103R-3	COOK	932	469	
		CHECKED - MJL	REVISED -			TD-09		CONTRACT NO. 60F05			
		DATE - 03/13/13	REVISED -			ILLINOIS FED. AID PROJECT					
SHT_PLAN	PLOT SCALE = 40.0000' / in. PLOT DATE = 3/14/2013				SCALE: 1"=20'	SHEET 1 OF 2 SHEETS	STA.	TO STA.			



FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D160F05-SHT-TD10.dgn		DRAWN - MRF	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - MJL	REVISED -
SHT_PLAN	PLOT DATE = 3/14/2013	DATE - 03/13/13	REVISED -

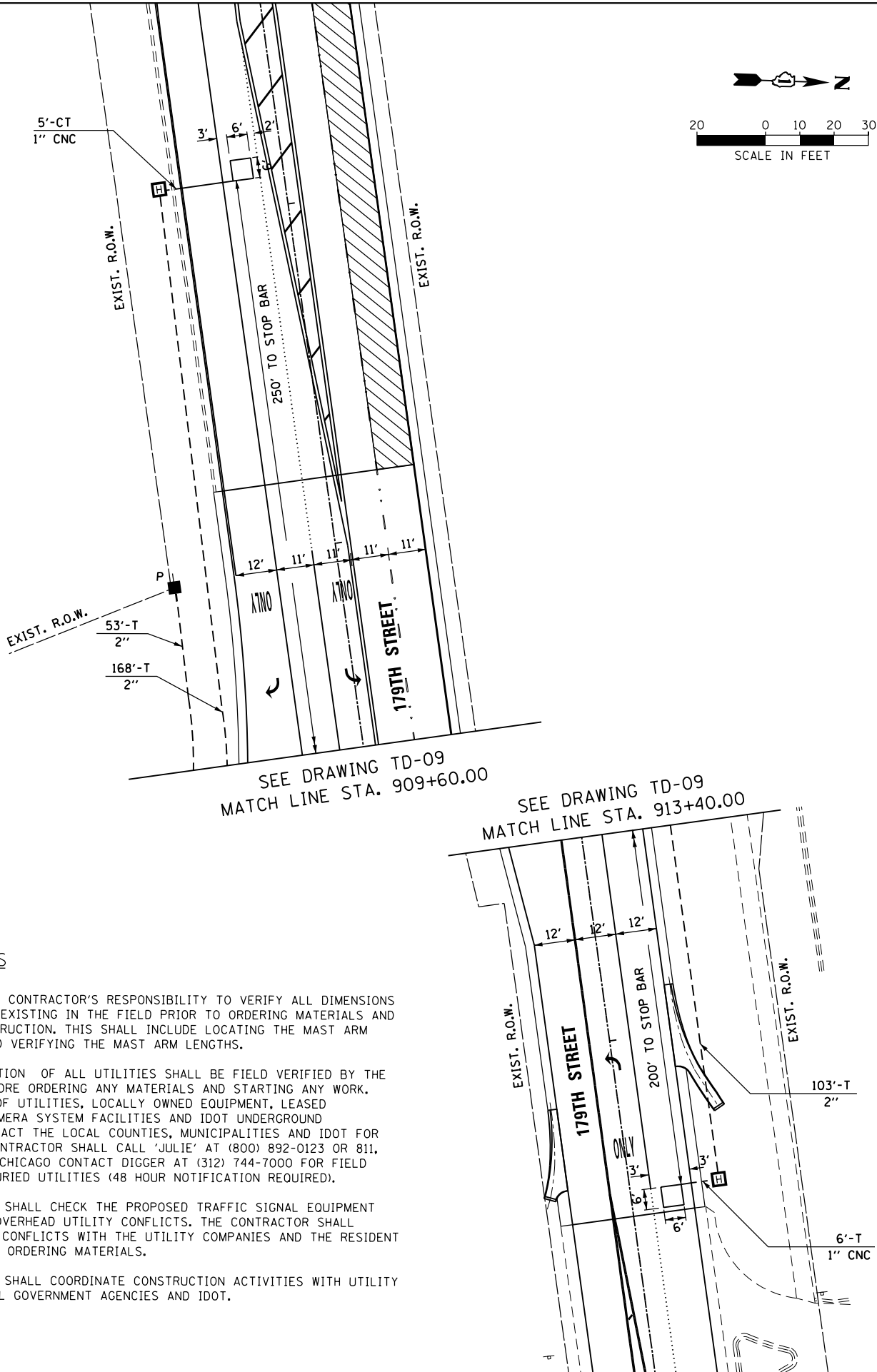
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

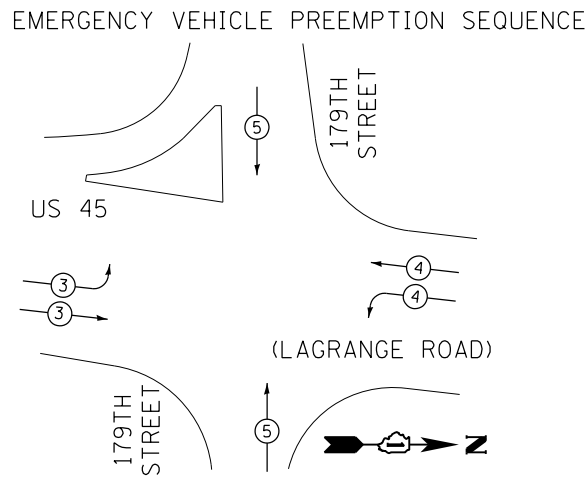
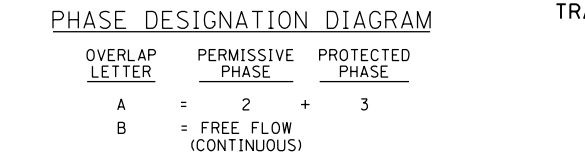
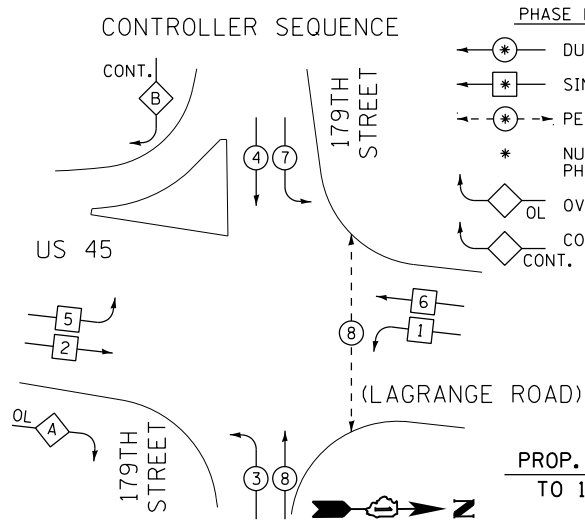
TRAFFIC SIGNAL INSTALLATION PLAN US 45 (LAGRANGE ROAD) AND 179TH STREET			
SCALE: 1"=20'	SHEET 2 OF 2 SHEETS	STA.	TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	470
TD-10		CONTRACT NO. 60F05		
ILLINOIS		FED. AID PROJECT		

GENERAL NOTES

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.
- THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL 'JULIE' AT (800) 892-0123 OR 811. IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOUR NOTIFICATION REQUIRED).
- THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.





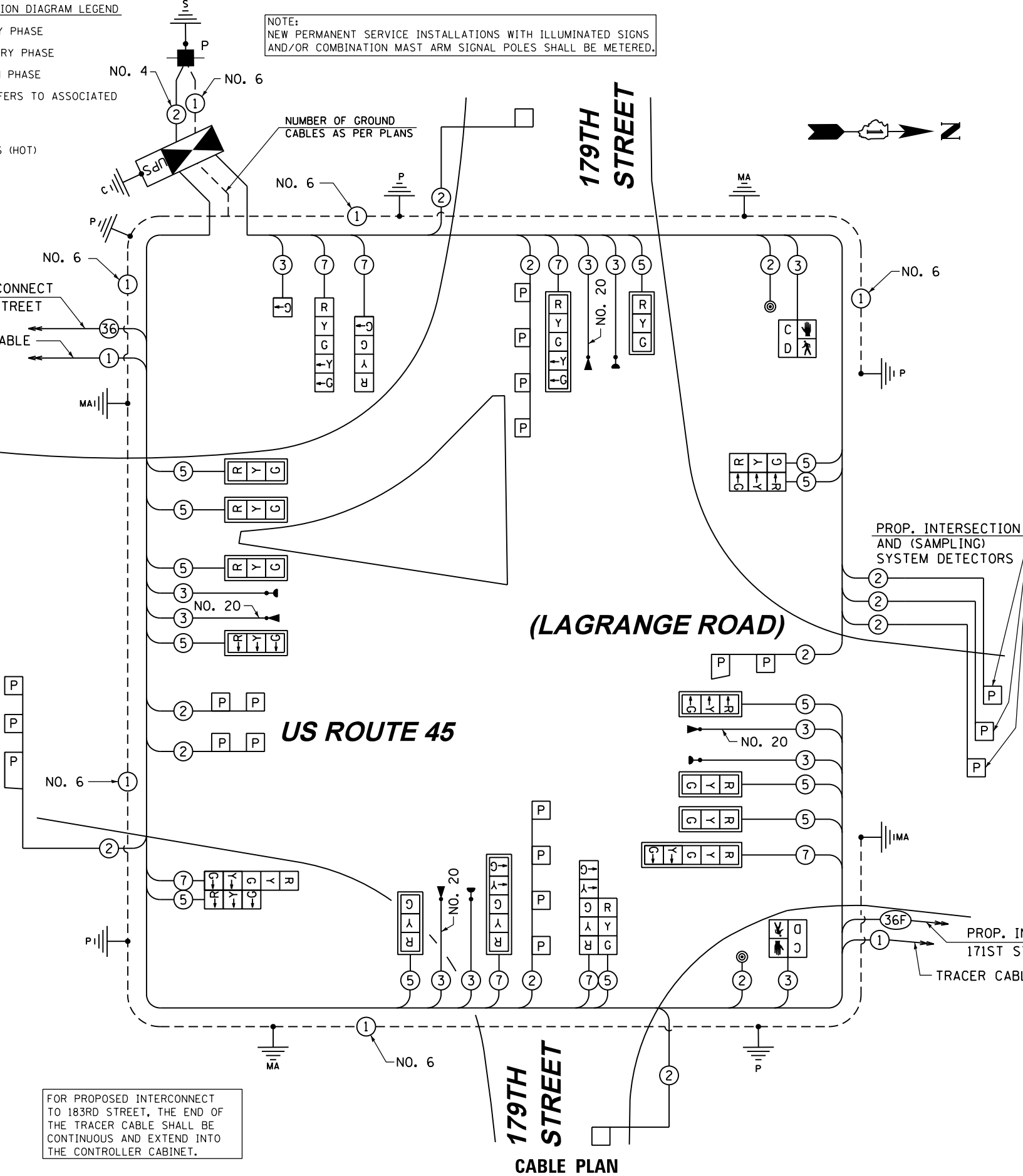
PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTORS	3	4	5
MOVEMENT			

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE	INCAND.	LED	
SIGNAL (RED)	20	17			170.0
(YELLOW)	20	25			125.0
(GREEN)	22	15			82.5
ARROW	12	12			14.4
PED. SIGNAL		25			0.0
CONTROLLER	1	100			100.0
ILLUM. SIGN	4	25			5.0
ARROW (GREEN)	2	15			30.0

FLASHER		25	0.50		
ENERGY COST TO:	50% I.D.O.T.				
	50% Village of Tinley Park				
TOTAL =					526.9

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAY/DISTRICT 1  
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096  
VILLAGE OF TINLEY PARK  
16250 S. OAK PARK AVE. TINLEY PARK, IL 60477  
ENERGY SUPPLY: CONTACT: KATHRYN SUGRUE  
PHONE: (708) 235-2337  
COMPANY: COMMONWEALTH EDISON

FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D160F05-SHT-TD11.dgn		DRAWN - MRF	REVISED -
		CHECKED - MJL	REVISED -
SHT_PLAN		DATE - 03/13/13	REVISED -



**SCHEDULE OF QUANTITIES**

ITEM	UNIT	TOTAL
SIGN PANEL - TYPE 1	SQ FT	44
SIGN PANEL - TYPE 2	SQ.FT.	30
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1350
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	92
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	80
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	788
HANDHOLE	EACH	5
HEAVY-DUTY HANDHOLE	EACH	6
DOUBLE HANDHOLE	EACH	2
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	622
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1979
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3784
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1999
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3747
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 4 2 C	FOOT	124
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1050
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 56 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 62 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	30
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	42
SIGNAL HEAD, LED, 1-FACE, 1-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	12
INDUCTIVE LOOP DETECTOR	EACH	11
DETECTOR LOOP, TYPE I	FOOT	66
PREFORMED DETECTOR LOOP	FOOT	710
* LIGHT DETECTOR	EACH	4
* LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	2
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	13
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
* ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	1282
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

\* 100% COST TO TINLEY PARK DEPARTMENT OF PUBLIC WORKS

FOR PROPOSED INTERCONNECT TO 171ST STREET, THE ENDS OF THE TRACER CABLE AND THE FIBER OPTIC INTERCONNECT CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET, BUT SHALL NOT BE CONNECTED TO THE CONTROLLER.

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 SHOULDERS, MEDIANS, 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.

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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE**  
**US 45 (LAGRANGE ROAD) AND 179TH STREET**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

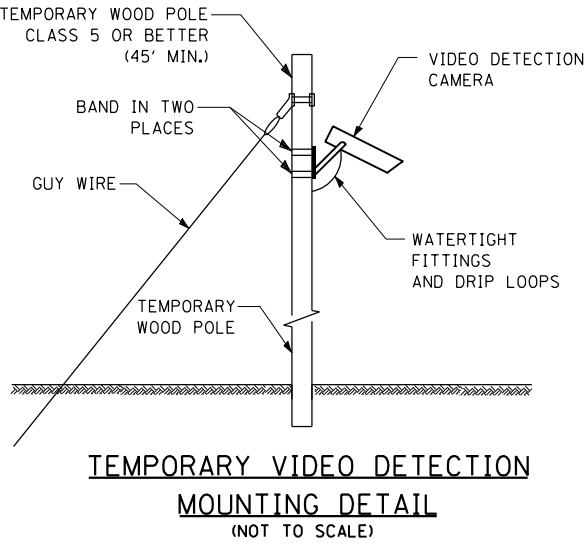
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	471
TD-11		CONTRACT NO. 60F05		
ILLINOIS FED. AID PROJECT				

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 SHOULDERS, MEDIANS, 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.

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

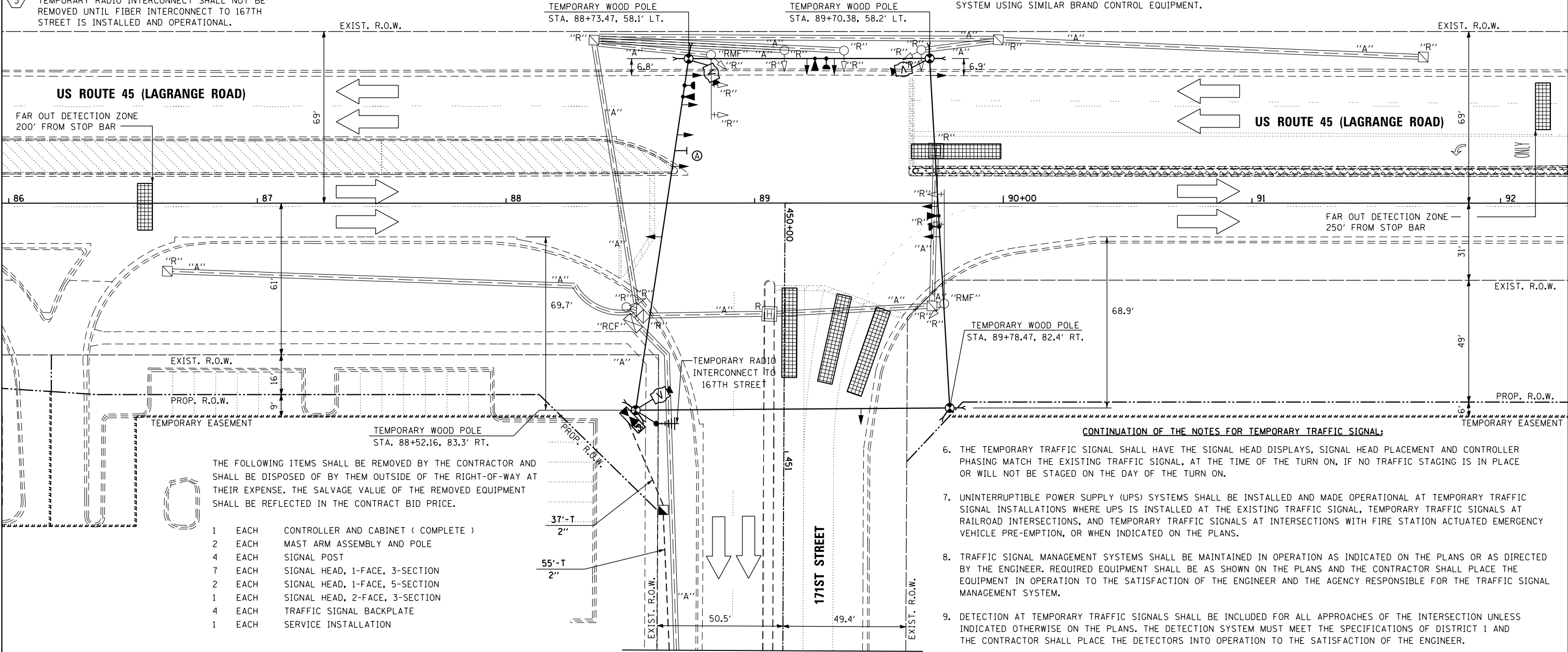
CONSTRUCTION NOTES:

- 1 ANY TEMPORARY TRAFFIC SIGNAL SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND DEACTIVATED. SEE CABLE PLANS FOR MORE DETAILS.
- 2 ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- 3 TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECT TO 167TH STREET IS INSTALLED AND OPERATIONAL.



NOTES FOR TEMPORARY TRAFFIC SIGNAL:

1. ALL CONTROL EQUIPMENT SUCH AS COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.



CONTINUATION OF THE NOTES FOR TEMPORARY TRAFFIC SIGNAL:

6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENT AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

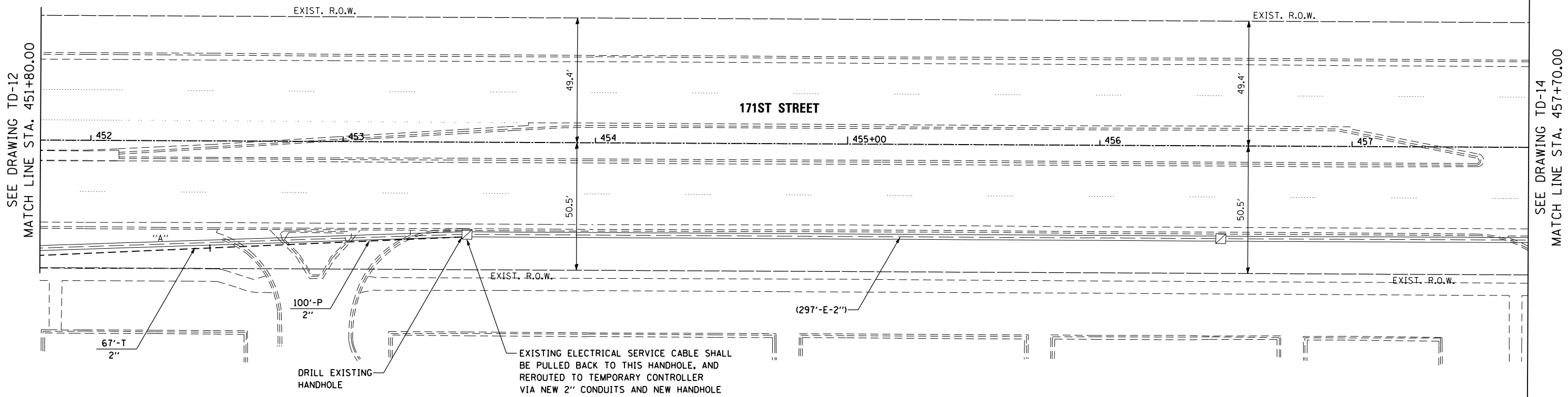
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE OF THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET ( COMPLETE )
- 2 EACH MAST ARM ASSEMBLY AND POLE
- 4 EACH SIGNAL POST
- 7 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 2 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 1 EACH SIGNAL HEAD, 2-FACE, 3-SECTION
- 4 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH SERVICE INSTALLATION

FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D160F05-SHT-TD12.dgn		DRAWN - MRF	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - MJL	REVISED -
SHT_PLAN	PLOT DATE = 3/14/2013	DATE - 03/13/13	REVISED -

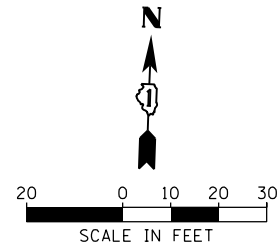
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN - PRE-STAGE US 45 (LAGRANGE ROAD) AND 171ST STREET			
SCALE: 1"=20'	SHEET 1 OF 8 SHEETS	STA.	TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	472
TD-12		CONTRACT NO. 60F05		
ILLINOIS		FED. AID PROJECT		



**CONSTRUCTION NOTES:**

- 1 MAINTAIN ELECTRICAL SERVICE CABLE SLACK  
DURING CABLE PULLING AND REINSTALLATION.
- 2 TRAFFIC SIGNAL OPERATION SHALL BE MAINTAINED  
THROUGH THE USE OF A BACKUP GENERATOR AND/OR  
THE UNINTERRUPTIBLE POWER SUPPLY FOR THE  
TEMPORARY TRAFFIC SIGNAL, OR AS APPROVED  
BY THE ENGINEER.



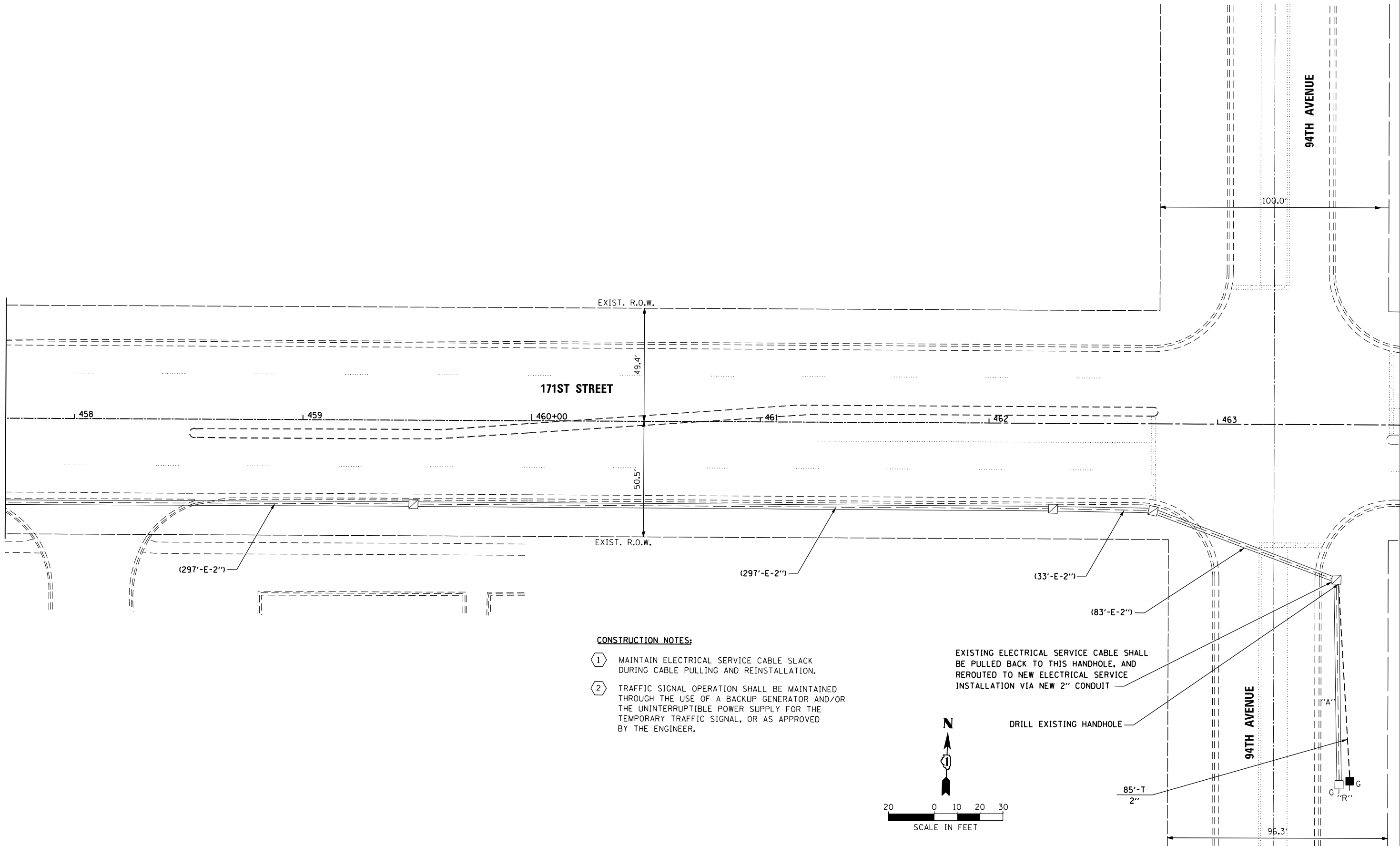
FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D160F05-SHT-TD13.dgn		DRAWN - MRF	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - MJL	REVISED -
SHT_PLAN	PLOT DATE = 3/14/2013	DATE - 03/13/13	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN - PRE-STAGE US 45 (LAGRANGE ROAD) AND 171ST STREET			
SCALE: 1"=20'	SHEET 2 OF 8 SHEETS	STA.	TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	473
TD-13		CONTRACT NO. 60F05		
ILLINOIS FED. AID PROJECT				

SEE DRAWING TD-13  
MATCH LINE STA. 457+70.00

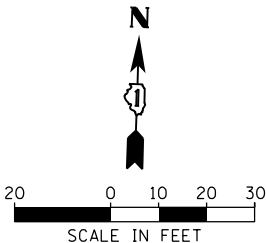


**CONSTRUCTION NOTES:**

- 1 MAINTAIN ELECTRICAL SERVICE CABLE SLACK DURING CABLE PULLING AND REINSTALLATION.
- 2 TRAFFIC SIGNAL OPERATION SHALL BE MAINTAINED THROUGH THE USE OF A BACKUP GENERATOR AND/OR THE UNINTERRUPTIBLE POWER SUPPLY FOR THE TEMPORARY TRAFFIC SIGNAL, OR AS APPROVED BY THE ENGINEER.

EXISTING ELECTRICAL SERVICE CABLE SHALL BE PULLED BACK TO THIS HANDHOLE, AND REROUTED TO NEW ELECTRICAL SERVICE INSTALLATION VIA NEW 2" CONDUIT

DRILL EXISTING HANDHOLE



FILE NAME = D160F05-SHT-TD14.dgn  SHT_PLAN	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
		DRAWN - MRF	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - MJL	REVISED -
	PLOT DATE = 3/14/2013	DATE - 03/13/13	REVISED -

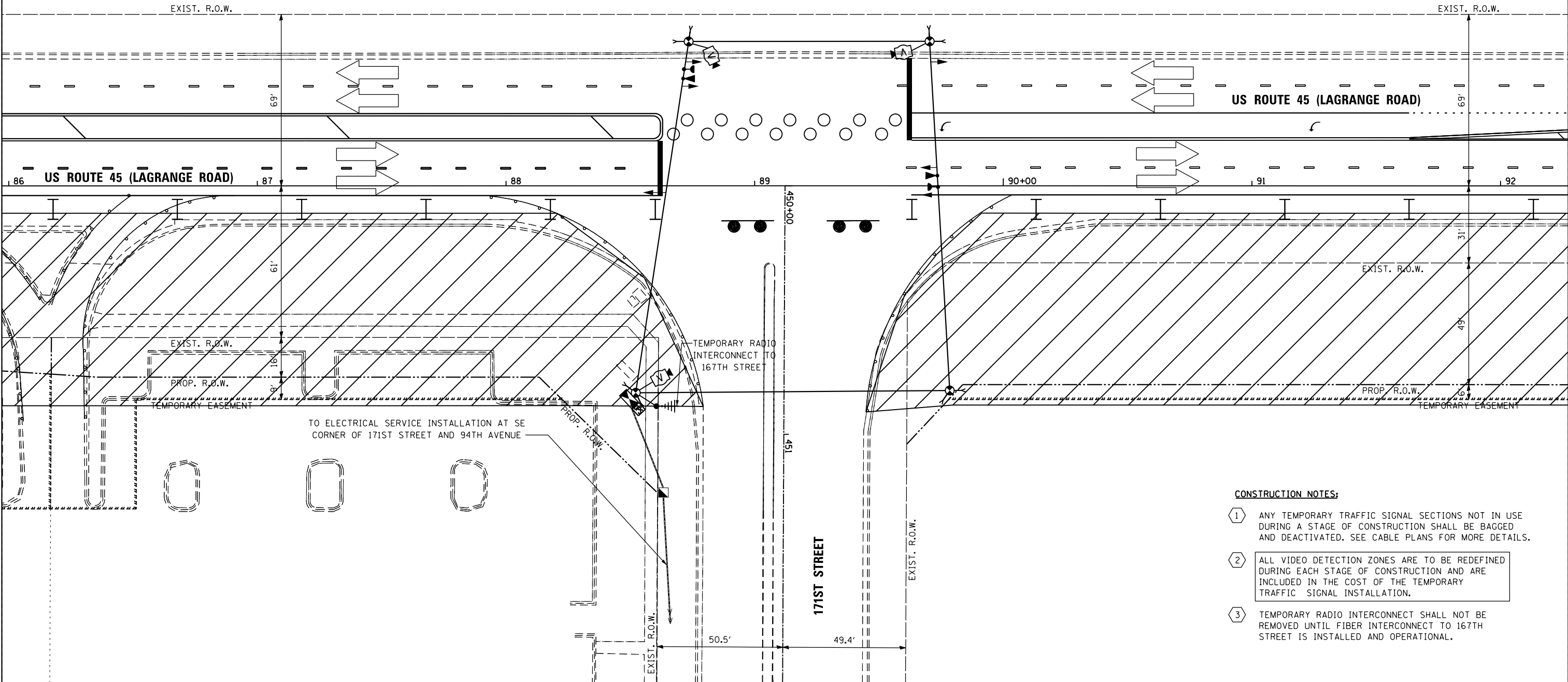
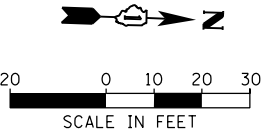
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN - PRE-STAGE US 45 (LAGRANGE ROAD) AND 171ST STREET			
SCALE: 1"=20'	SHEET 3 OF 8 SHEETS	STA.	TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	474
TD-14		CONTRACT NO. 60F05		
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 SHOULDERS, MEDIANS, 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.

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



CONSTRUCTION NOTES:

- 1 ANY TEMPORARY TRAFFIC SIGNAL SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND DEACTIVATED. SEE CABLE PLANS FOR MORE DETAILS.
- 2 ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- 3 TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECT TO 167TH STREET IS INSTALLED AND OPERATIONAL.

FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D160F05-SHT-TD15.dgn		DRAWN - MRF	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - MJL	REVISED -
SHT_PLAN	PLOT DATE = 3/14/2013	DATE - 03/13/13	REVISED -

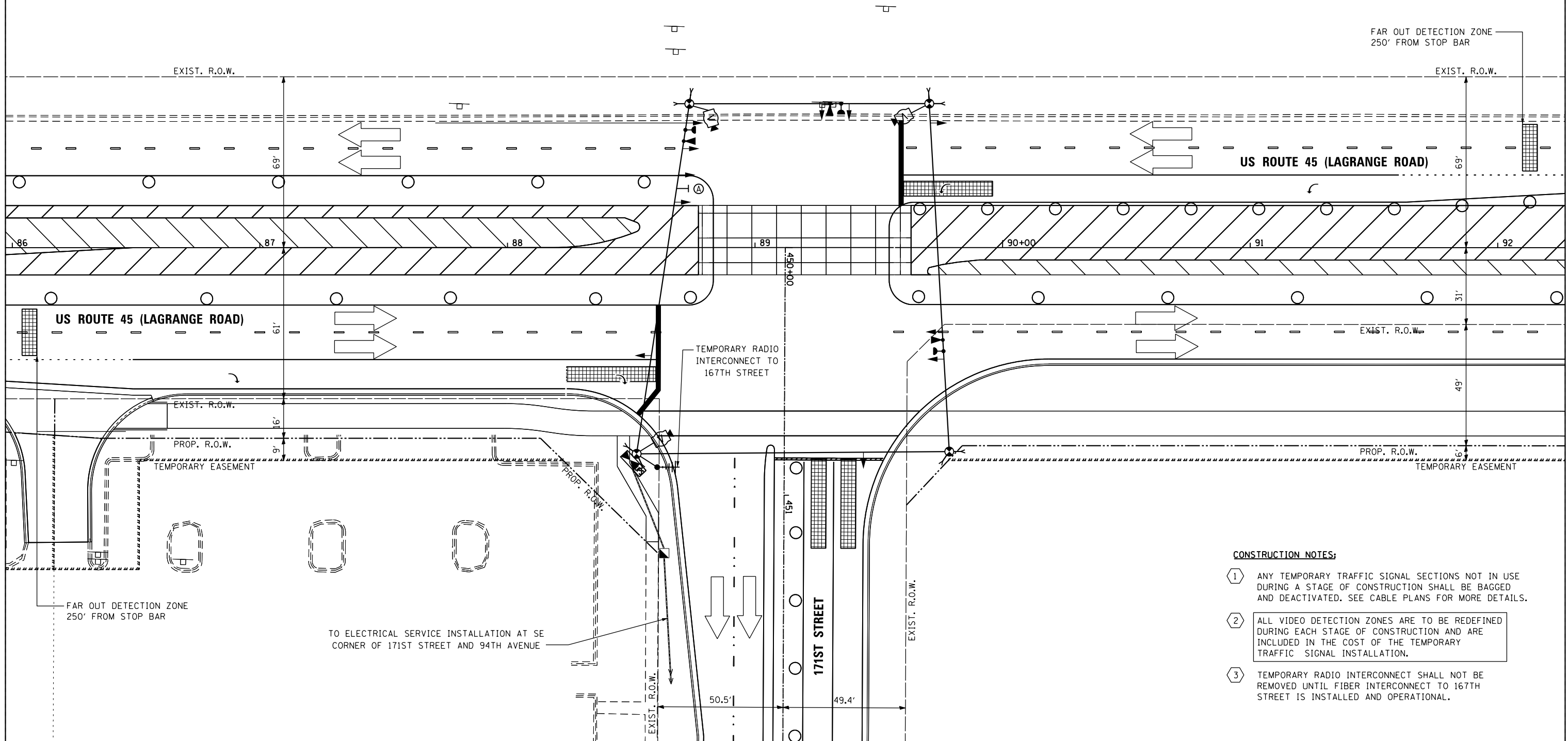
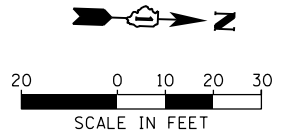
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	475
TD-15		CONTRACT NO. 60F05		
ILLINOIS		FED. AID PROJECT		

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 SHOULDERS, MEDIANS, 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.

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

SIGN - (A)  
**LEFT ON  
GREEN  
ARROW  
ONLY**

R10-5  
24" X 30" (TYP)  
SIGN PANEL TYPE 1  
1 REQUIRED



**CONSTRUCTION NOTES:**

- 1 ANY TEMPORARY TRAFFIC SIGNAL SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND DEACTIVATED. SEE CABLE PLANS FOR MORE DETAILS.
- 2 ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- 3 TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECT TO 167TH STREET IS INSTALLED AND OPERATIONAL.

FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D:\160F05-SHT-TD16.dgn		DRAWN - MRF	REVISED -
		CHECKED - MJL	REVISED -
SHT_PLAN		DATE - 03/13/13	REVISED -

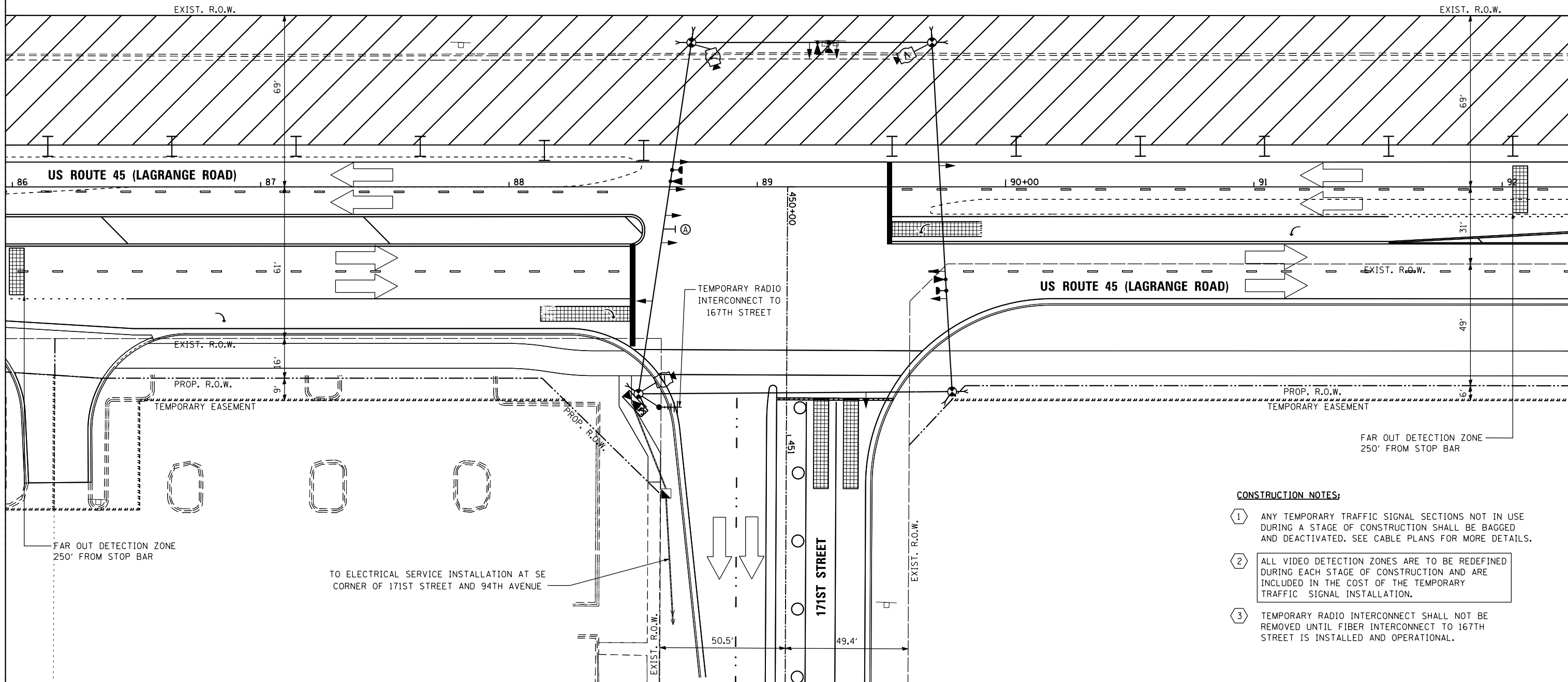
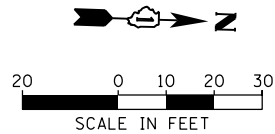
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	476
TD-16		CONTRACT NO. 60F05		
ILLINOIS FED. AID PROJECT				

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 SHOULDERS, MEDIANS, 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.

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

SIGN - (A)  
**LEFT ON  
GREEN  
ARROW  
ONLY**

R10-5  
24" X 30" (TYP)  
SIGN PANEL TYPE 1  
1 REQUIRED



**CONSTRUCTION NOTES:**

- 1 ANY TEMPORARY TRAFFIC SIGNAL SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND DEACTIVATED. SEE CABLE PLANS FOR MORE DETAILS.
- 2 ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- 3 TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECT TO 167TH STREET IS INSTALLED AND OPERATIONAL.

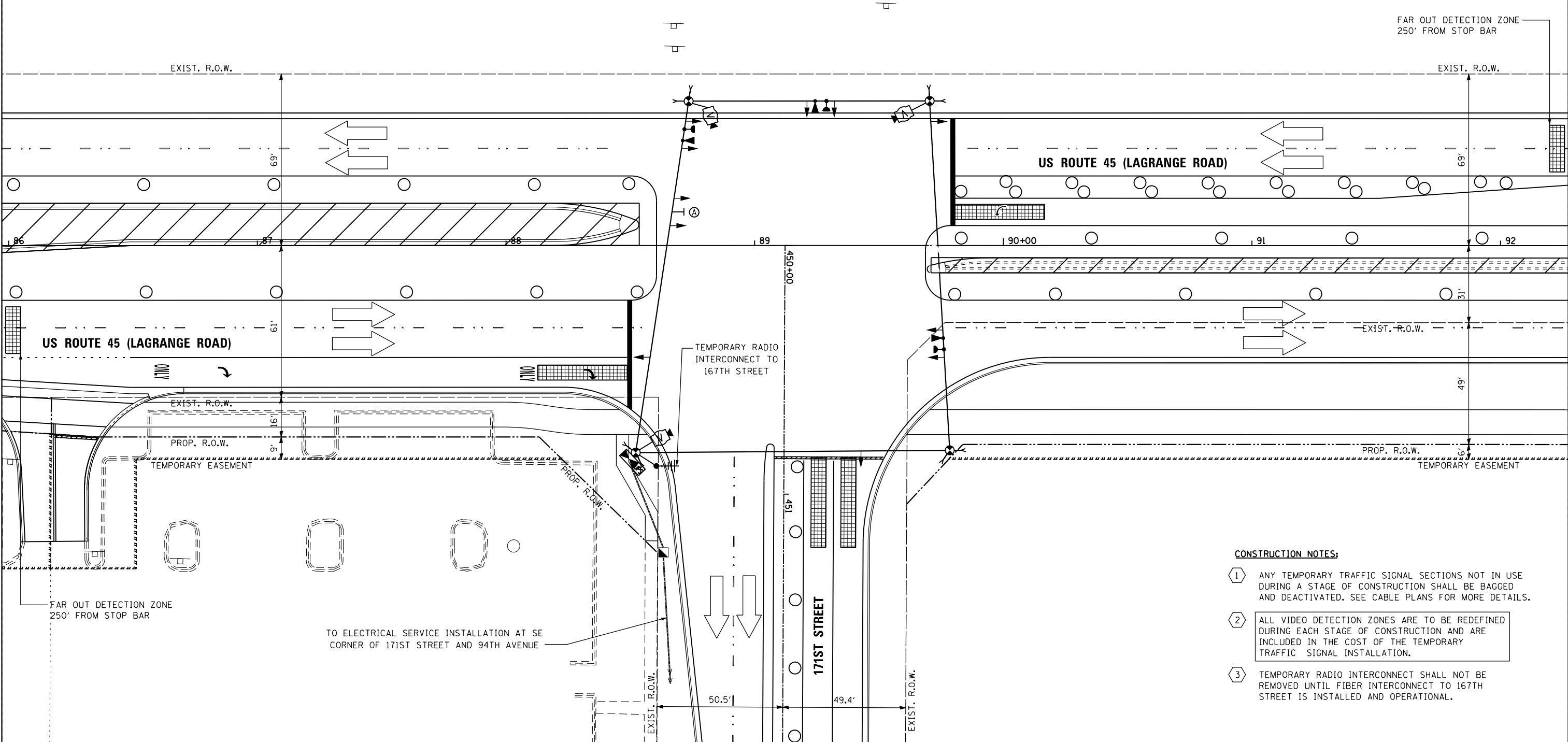
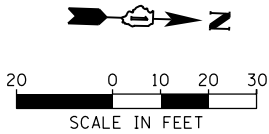
FILE NAME = D160F05-SHT-TD17.dgn	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION - STAGE 3 US 45 (LAGRANGE ROAD) AND 171ST STREET	F.A.P RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 477
SHT_PLAN	PLOT SCALE = 40.0000' / in.	DRAWN - MRF	REVISED -			TD-17		CONTRACT NO. 60F05		
	PLOT DATE = 3/14/2013	CHECKED - MJL	REVISED -			SCALE: 1"=20'	SHEET 6 OF 8	SHEETS TO STA.	ILLINOIS FED. AID PROJECT	
		DATE - 03/13/13	REVISED -							

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 SHOULDERS, MEDIANS, 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.

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



R10-5  
24" X 30" (TYP)  
SIGN PANEL TYPE 1  
1 REQUIRED



CONSTRUCTION NOTES:

- 1 ANY TEMPORARY TRAFFIC SIGNAL SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND DEACTIVATED. SEE CABLE PLANS FOR MORE DETAILS.
- 2 ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- 3 TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECT TO 167TH STREET IS INSTALLED AND OPERATIONAL.

FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D:\160F05-SHT-TD18.dgn		DRAWN - MRF	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - MJL	REVISED -
SHT_PLAN	PLOT DATE = 3/14/2013	DATE - 03/13/13	REVISED -

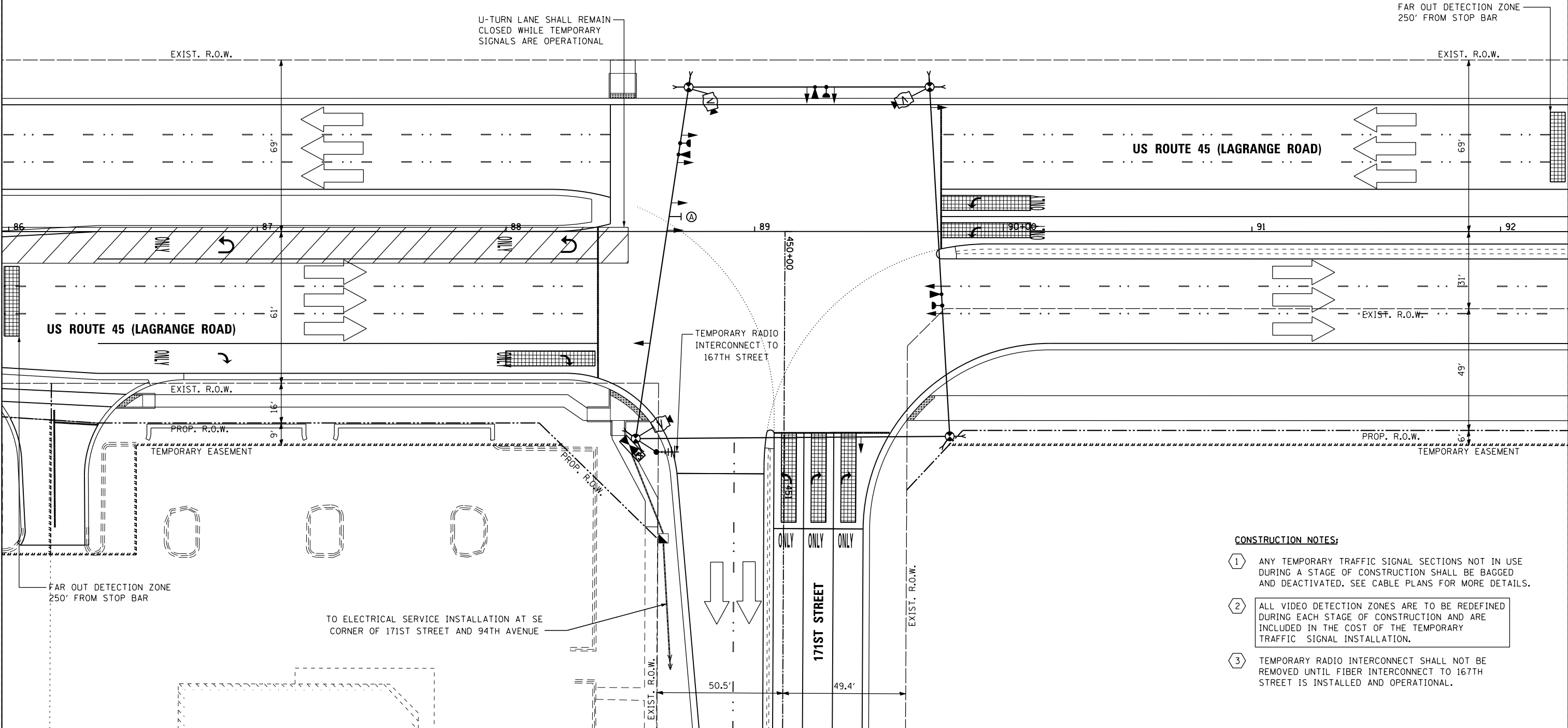
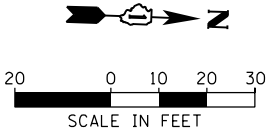
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	478
TD-18		CONTRACT NO. 60F05		
ILLINOIS		FED. AID PROJECT		

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 SHOULDERS, MEDIANS, 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.

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



R10-5  
24" X 30" (TYP)  
SIGN PANEL TYPE 1  
1 REQUIRED



CONSTRUCTION NOTES:

- 1 ANY TEMPORARY TRAFFIC SIGNAL SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND DEACTIVATED. SEE CABLE PLANS FOR MORE DETAILS.
- 2 ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- 3 TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECT TO 167TH STREET IS INSTALLED AND OPERATIONAL.

FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D160F05-SHT-TD19.dgn		DRAWN - MRF	REVISED -
		CHECKED - MJL	REVISED -
SHT_PLAN		DATE - 03/13/13	REVISED -

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	479
TD-19		CONTRACT NO. 60F05		
ILLINOIS		FED. AID PROJECT		

TEMPORARY CONTROLLER SEQUENCE



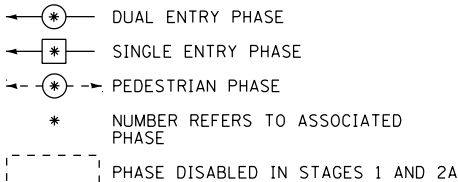
US 45

②

171ST STREET

⑧

(LAGRANGE ROAD)



TEMPORARY PHASE DESIGNATION DIAGRAM



US 45

③

171ST STREET

⑤

(LAGRANGE ROAD)

TEMPORARY EMERGENCY VEHICLE  
PREEMPTION SEQUENCE

TEMPORARY EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTORS	3	4	5
MOVEMENT	→	↪	↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCANDE.	LED	% OPERATION	
SIGNAL (RED)	11		17	0.50	93.5
(YELLOW)	11		25	0.25	68.8
(GREEN)	11		15	0.25	41.3
ARROW	4		12	0.10	4.8
PED. SIGNAL	--		25	1.00	0.0
CONTROLLER	1		100	1.00	100.0
ILLUM. SIGN	--		25	0.05	0.0
VIDEO SYSTEM	1		150	1.00	150.0
FLASHER			25	0.50	
ENERGY COST TO: 100% I.D.O.T. TOTAL =					458.4

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAY/DISTRICT 1  
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: KATHRYN SUGRUE  
PHONE: (708) 235-2337  
COMPANY: COMMONWEALTH EDISON

FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D160F05-SHT-TD21.dgn		DRAWN - MRF	REVISED -
		CHECKED - MJL	REVISED -
SHT_PLAN		DATE - 03/13/13	REVISED -

NOTE:

AT 171ST STREET AND US ROUTE 45, THE ELECTRICAL SERVICE CABLE SHALL BE PULLED BACK TO THE HANDHOLE LOCATED AT STA. 453+49, AND REROUTED TO THE TEMPORARY CONTROLLER VIA NEW 2" CONDUIT.

AT 171ST STREET AND 94TH AVENUE, THE ELECTRICAL SERVICE CABLE SHALL BE PULLED BACK TO THE HANDHOLE LOCATED AT STA. 463+52, AND REROUTED TO THE NEW ELECTRICAL SERVICE INSTALLATION VIA NEW 2" CONDUIT.

ALL WORK SHALL BE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

NOTE:

ELECTRICAL SERVICE INSTALLATION IS LOCATED AT THE INTERSECTION OF 171ST STREET AND 94TH AVENUE

US ROUTE 45

⑤

NO. 2/0

G

1

2

NO. 6

1

2

1

2

1

2

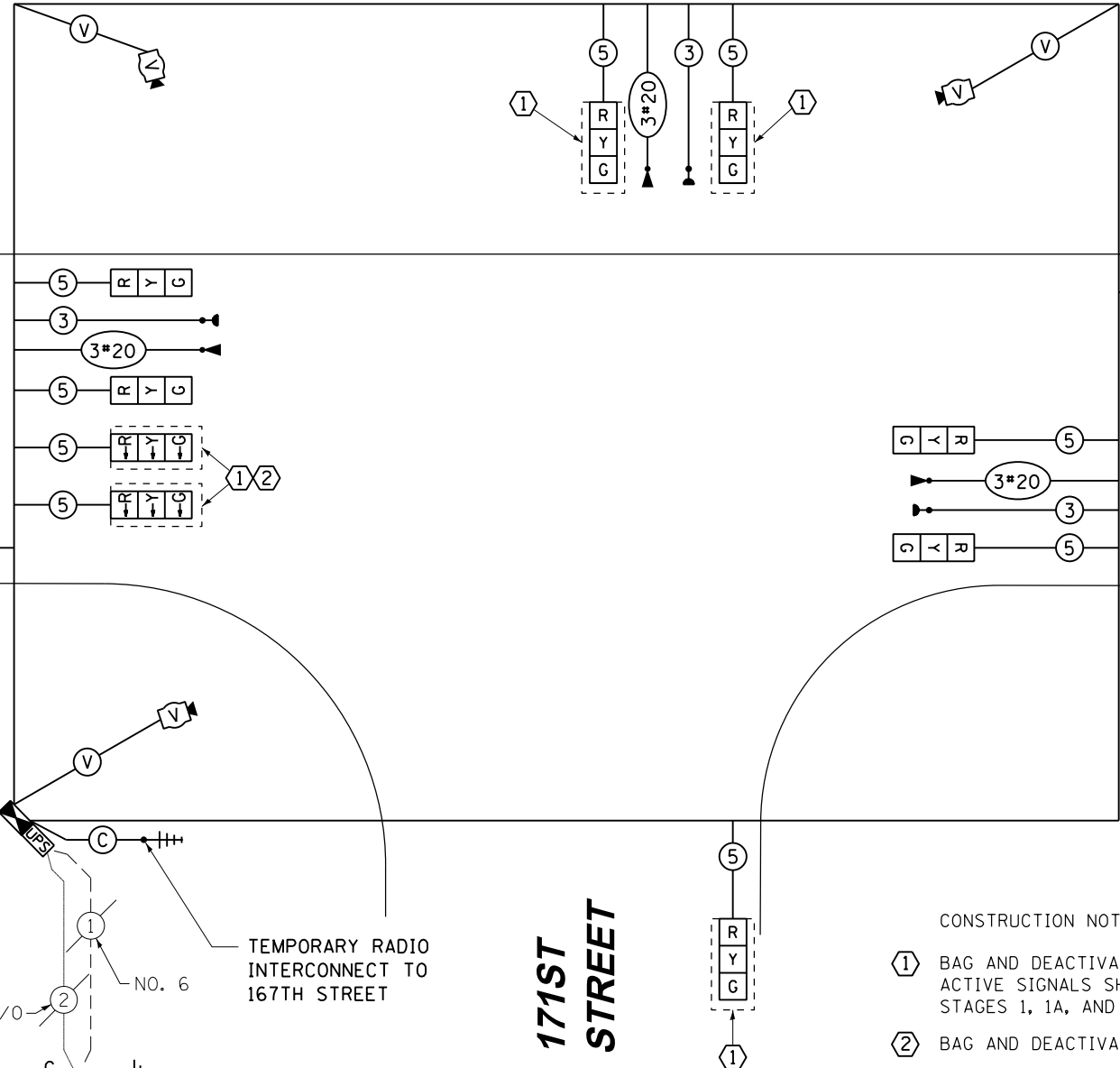
1

2

1

2

TEMPORARY CABLE PLAN  
PRE-STAGE. STAGE 1, 2, 3, 4 & FINAL GEOMETRICS



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 SHOULDERS, MEDIANS, 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.

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

CONSTRUCTION NOTES:

- BAG AND DEACTIVATE SIGNAL SECTION DURING STAGES 1, 1A, AND 1B. ACTIVE SIGNALS SHALL DISPLAY STEADY GREEN INDICATION DURING STAGES 1, 1A, AND 1B.
- BAG AND DEACTIVATE SIGNAL SECTION DURING STAGE 2A.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
US 45 (LAGRANGE ROAD) AND 171ST STREET

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	480
TD-21		CONTRACT NO. 60F05		
ILLINOIS		FED. AID PROJECT		

GENERAL NOTES

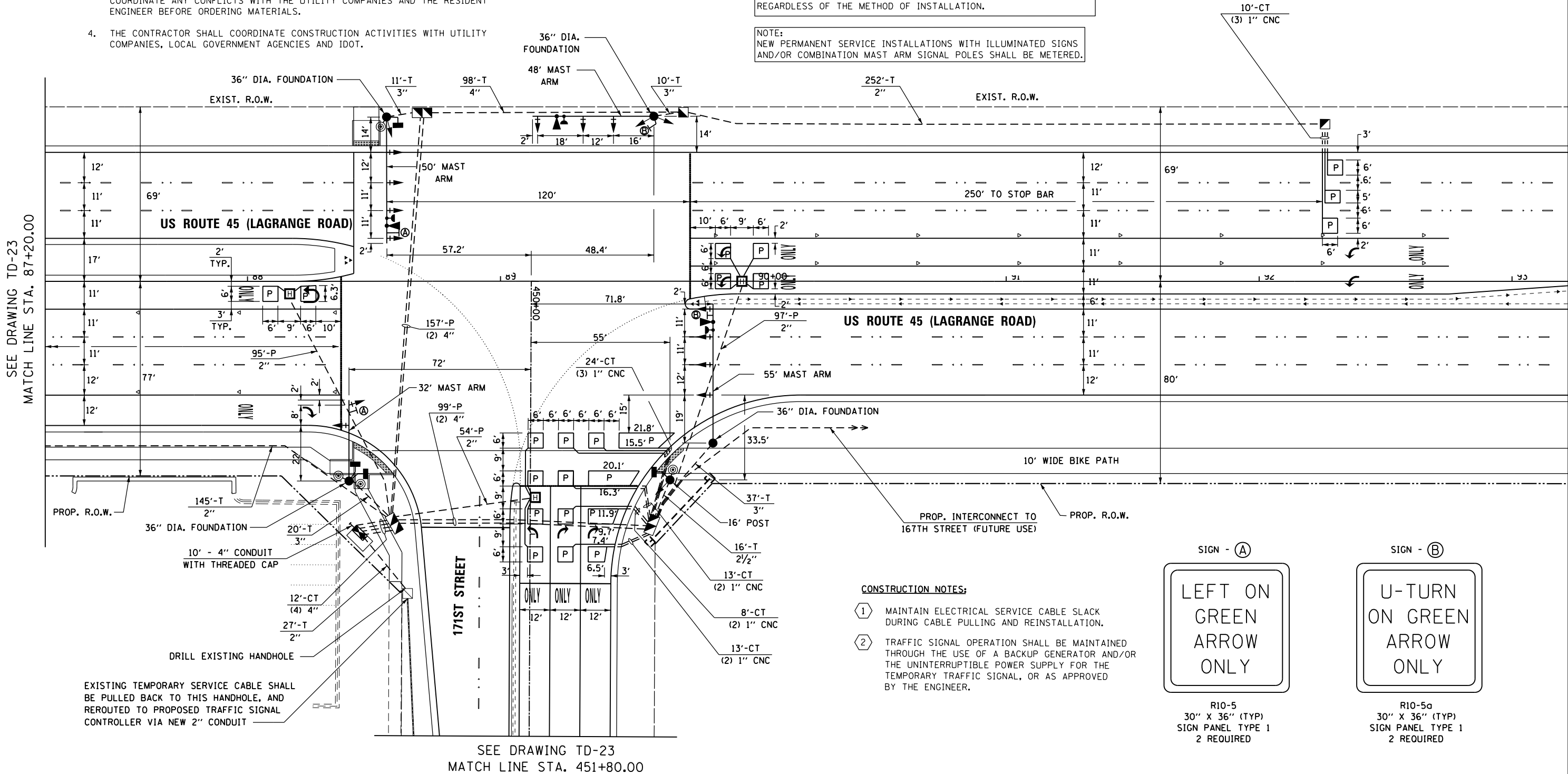
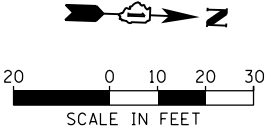
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.
- THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL 'JULIE' AT (800) 892-0123 OR 811. IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOUR NOTIFICATION REQUIRED).
- THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.

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 SHOULDERS, MEDIANS, 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.

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

NOTE:  
GALVANIZED STEEL CONDUIT IDENTIFIED AS IN TRENCH (T) OR PUSHED (P) IS SHOWN FOR INFORMATION ONLY. ALL UNDERGROUND CONDUIT SHALL BE PAID FOR AT THE CONTRACT UNIT PRICER PER FOOT FOR UNDERGROUND CONDUIT, OF THE TYPE AND SIZE SPECIFIED, REGARDLESS OF THE METHOD OF INSTALLATION.

NOTE:  
NEW PERMANENT SERVICE INSTALLATIONS WITH ILLUMINATED SIGNS AND/OR COMBINATION MAST ARM SIGNAL POLES SHALL BE METERED.



CONSTRUCTION NOTES:

- MAINTAIN ELECTRICAL SERVICE CABLE SLACK DURING CABLE PULLING AND REINSTALLATION.
- TRAFFIC SIGNAL OPERATION SHALL BE MAINTAINED THROUGH THE USE OF A BACKUP GENERATOR AND/OR THE UNINTERRUPTIBLE POWER SUPPLY FOR THE TEMPORARY TRAFFIC SIGNAL, OR AS APPROVED BY THE ENGINEER.



R10-5  
30" X 36" (TYP)  
SIGN PANEL TYPE 1  
2 REQUIRED



R10-5a  
30" X 36" (TYP)  
SIGN PANEL TYPE 1  
2 REQUIRED

FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D160F05-SHT-TD22.dgn		DRAWN - MRF	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - MJL	REVISED -
SHT_PLAN	PLOT DATE = 3/14/2013	DATE - 03/13/13	REVISED -

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	481
TD-22		CONTRACT NO. 60F05		
ILLINOIS		FED. AID PROJECT		

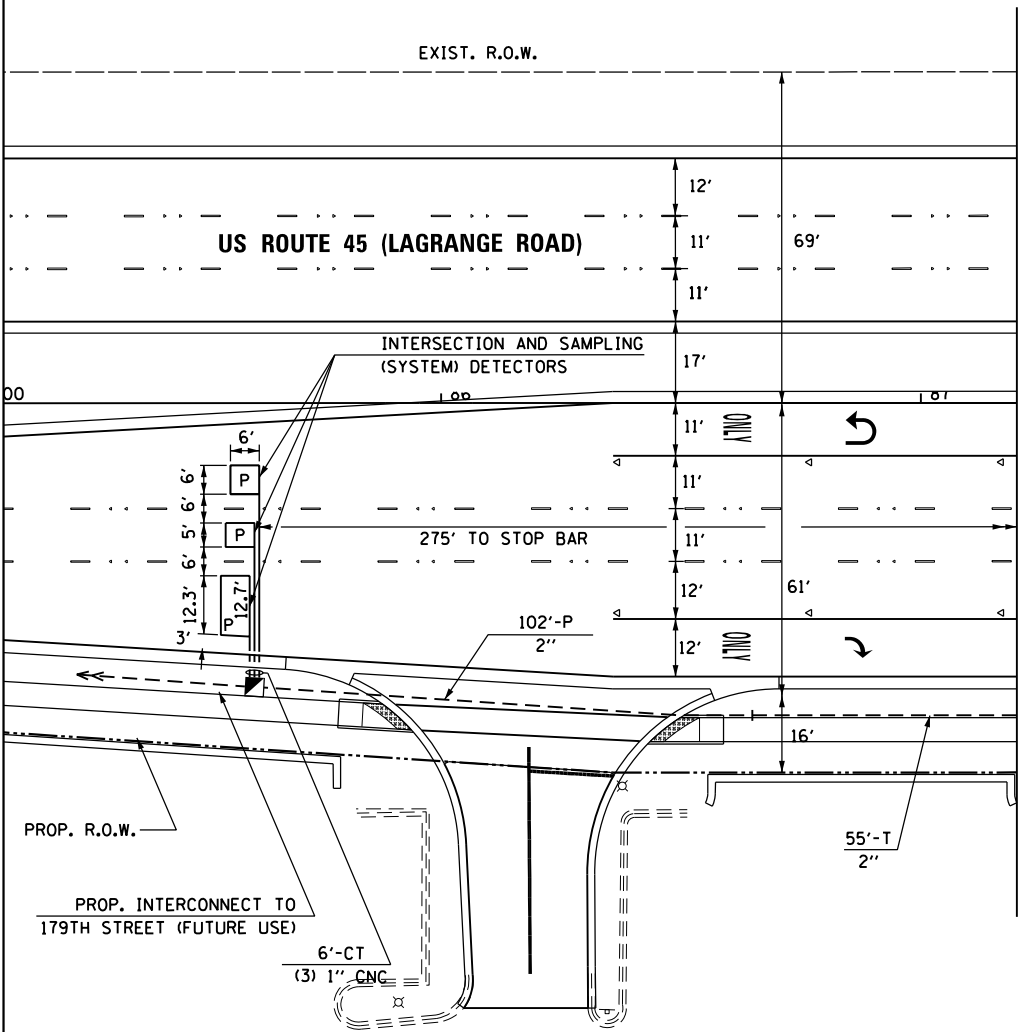
GENERAL NOTES

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.
- THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL 'JULIE' AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOUR NOTIFICATION REQUIRED).
- THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.

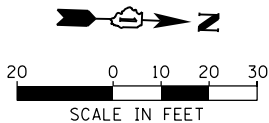
RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL 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.

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

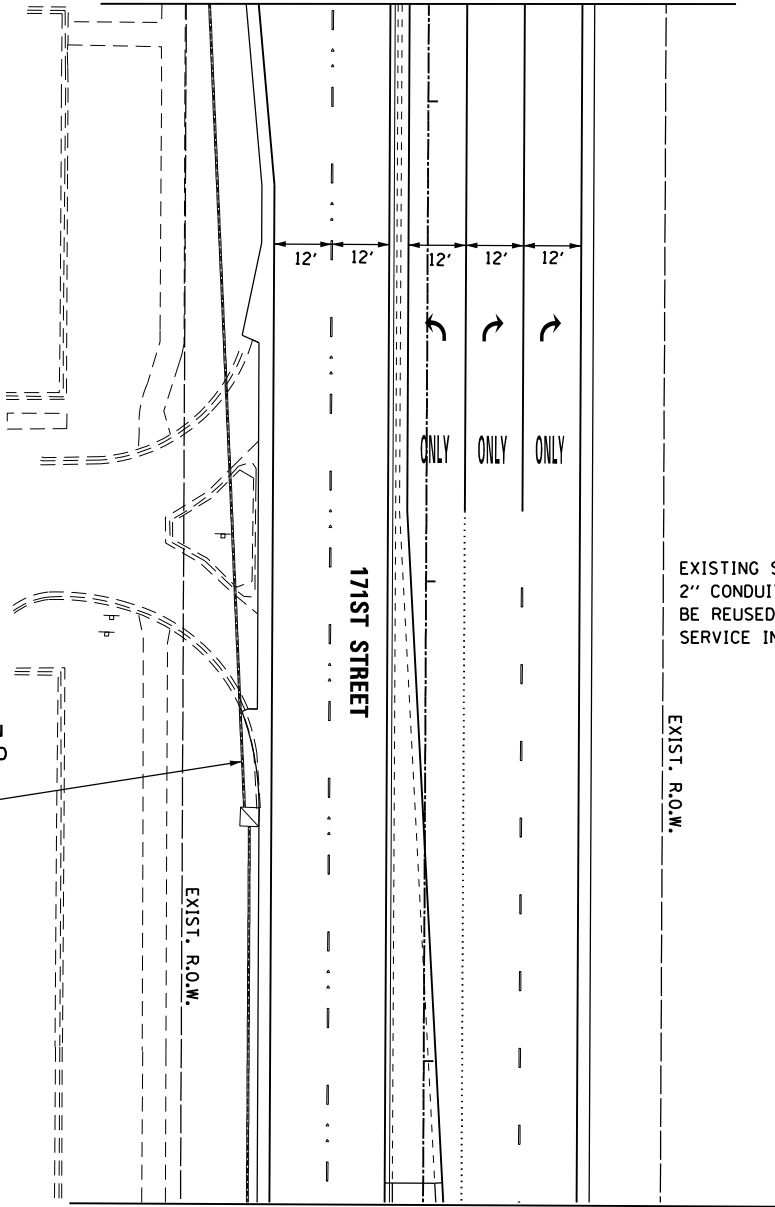
NOTE:  
GALVANIZED STEEL CONDUIT IDENTIFIED AS IN TRENCH (T) OR PUSHED (P) IS SHOWN FOR INFORMATION ONLY. ALL UNDERGROUND CONDUIT SHALL BE PAID FOR AT THE CONTRACT UNIT PRICER PER FOOT FOR UNDERGROUND CONDUIT, OF THE TYPE AND SIZE SPECIFIED, REGARDLESS OF THE METHOD OF INSTALLATION.



SEE DRAWING TD-22  
MATCH LINE STA. 87+20.00

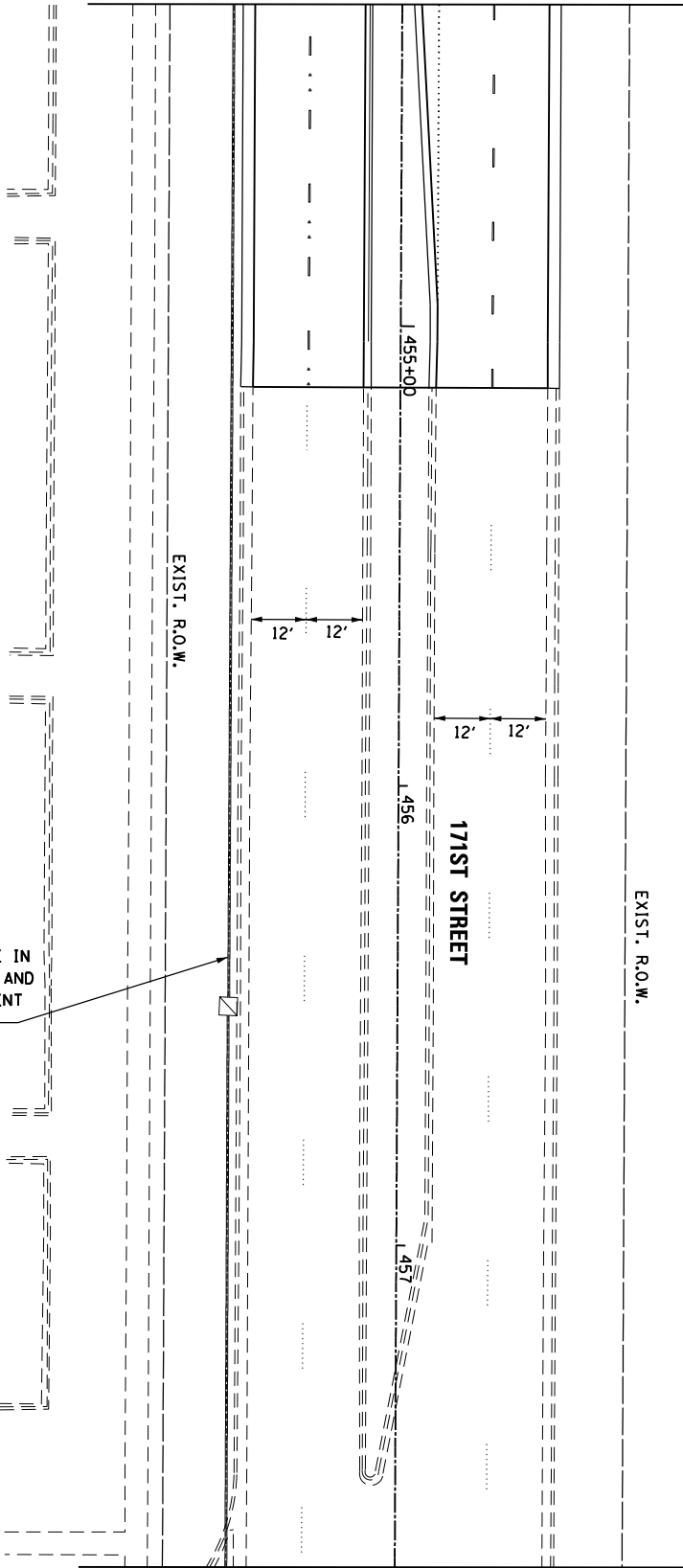


SEE DRAWING TD-22  
MATCH LINE STA. 451+80.00



SEE VIEW TO RIGHT  
MATCH LINE STA. 454+30.00

SEE VIEW TO LEFT  
MATCH LINE STA. 454+30.00

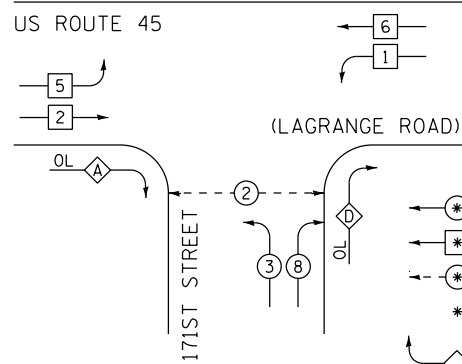


SEE DRAWING TD-23A  
MATCH LINE STA. 457+70.00

FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D160F05-SHT-TD23.dgn		DRAWN - MRF	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - MJL	REVISED -
SHT_PLAN	PLOT DATE = 3/14/2013	DATE - 03/13/13	REVISED -

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	482
TD-23		CONTRACT NO. 60F05		
		ILLINOIS FED. AID PROJECT		

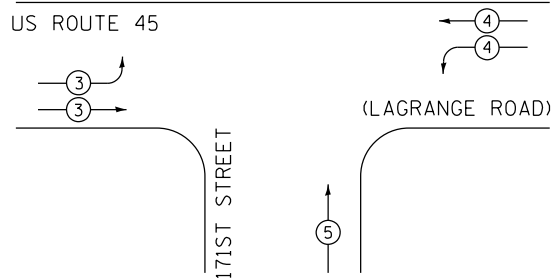
## CONTROLLER SEQUENCE



## PHASE DESIGNATION DIAGRAM

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	=	2
D	=	8

## EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTORS	3	4	5
MOVEMENT			

PROP. INTERCONNECT TO 179TH STREET

TRACER CABLE  
NUMBER OF GROUND CABLES AS PER PLANS

NOTE:  
ELECTRICAL SERVICE INSTALLATION IS LOCATED AT THE INTERSECTION OF 171ST STREET AND 94TH AVENUE

## (LAGRANGE ROAD)

## US ROUTE 45

## 171ST STREET

## CABLE PLAN

FOR PROPOSED INTERCONNECT TO 179TH STREET, THE ENDS OF THE TRACER CABLE AND THE FIBER OPTIC INTERCONNECT CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET, BUT SHALL NOT BE CONNECTED TO THE CONTROLLER.

## SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
SIGN PANEL - TYPE 1	SO FT	42
SIGN PANEL - TYPE 2	SO FT	15
SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1171
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	16
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	78
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	569
HANDHOLE	EACH	3
HEAVY-DUTY HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	3
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	511
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1458
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3553
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	850
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2528
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	612
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
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	10
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	13
INDUCTIVE LOOP DETECTOR	EACH	10
PREFORMED DETECTOR LOOP	FOOT	988
* LIGHT DETECTOR	EACH	3
* LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	4
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE AND REINSTALL EXISTING CABLE FROM CONDUIT	EACH	388
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	8
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
* ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	919
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

\* 100% COST TO TINLEY PARK DEPARTMENT OF PUBLIC WORKS

PROP. INTERCONNECT TO 167TH STREET

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 SHOULDERS, MEDIANS, 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.

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

NOTE:  
NEW PERMANENT SERVICE INSTALLATIONS WITH ILLUMINATED SIGNS AND/OR COMBINATION MAST ARM SIGNAL POLES SHALL BE METERED.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS						TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCANDESC.	LED	% OPERATION		
SIGNAL (RED)	17	17	17	0.50		144.5
(YELLOW)	17		25	0.25		106.3
(GREEN)	17		15	0.25		63.8
ARROW	8		12	0.10		9.6
PED. SIGNAL	4		25	1.00		100.0
CONTROLLER	1		100	1.00		100.0
ILLUM. SIGN	3		25	0.05		3.8
FLASHER			25	0.50		
ENERGY COST TO:					TOTAL =	528.0

## ILLINOIS DEPARTMENT OF TRANSPORTATION

201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: KATHRYN SUGRUE  
PHONE: (708) 235-2337  
COMPANY: COMMONWEALTH EDISON

FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D160F05-SHT-TD24.dgn		DRAWN - MRF	REVISED -
		PLOT SCALE = 40.0000' / in.	CHECKED - MJL
SHT_PLAN		PLOT DATE = 3/14/2013	DATE - 03/13/13

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

## SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE US 45 (LAGRANGE ROAD) AND 171ST STREET

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

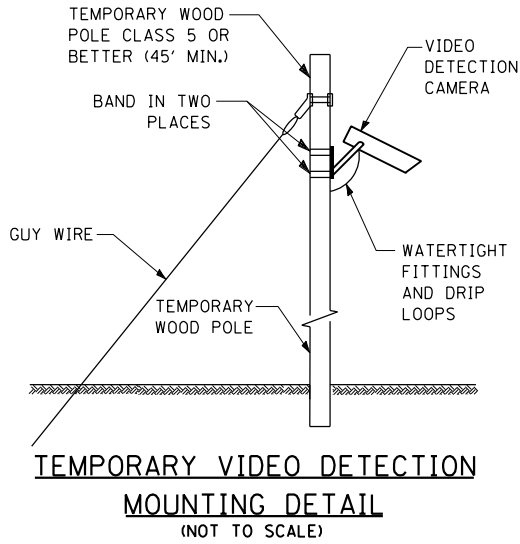
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	483
TD-24		CONTRACT NO. 60F05		
ILLINOIS FED. AID PROJECT				

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 SHOULDERS, MEDIANS, 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.

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

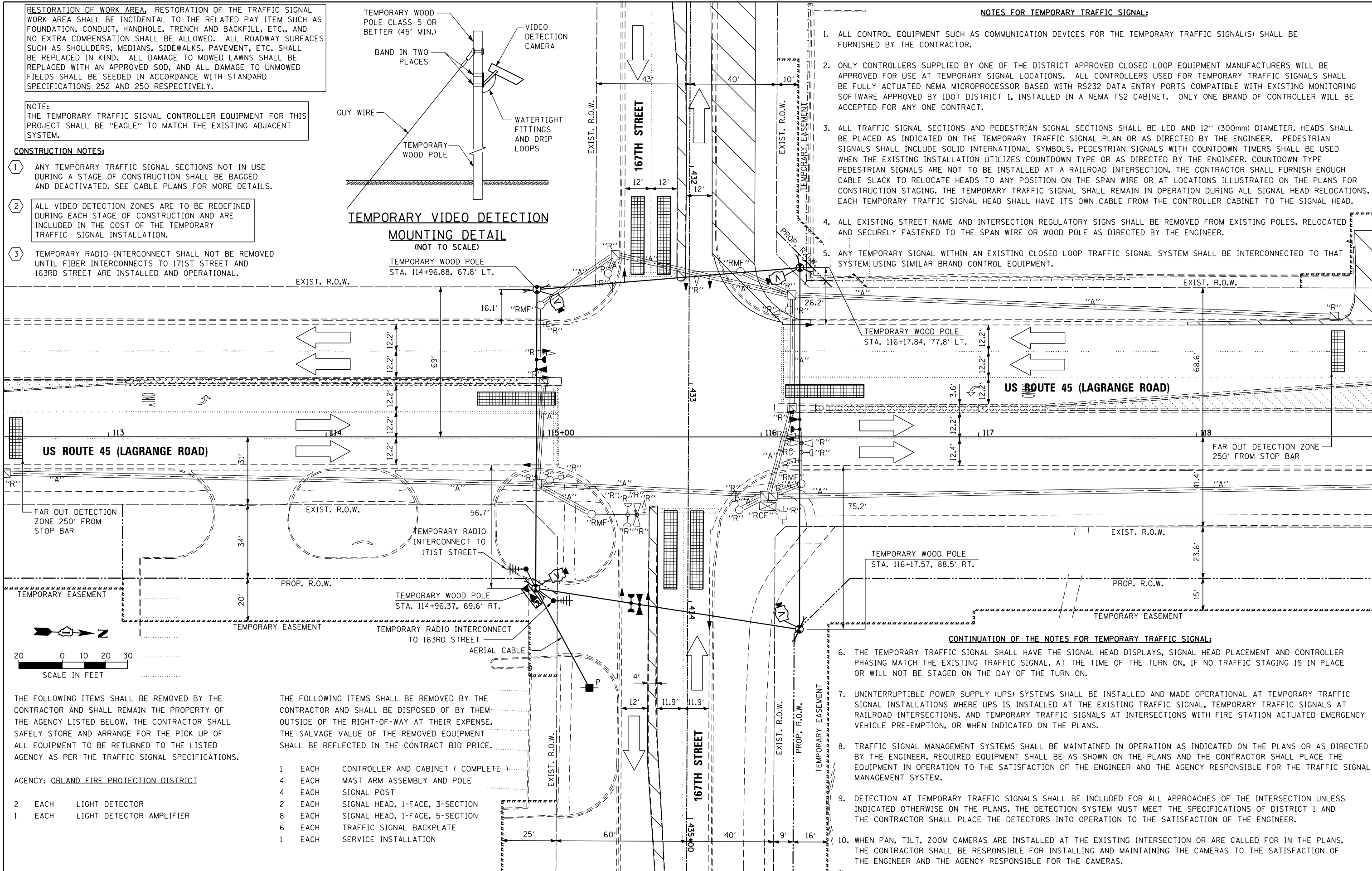
**CONSTRUCTION NOTES:**

- ANY TEMPORARY TRAFFIC SIGNAL SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND DEACTIVATED. SEE CABLE PLANS FOR MORE DETAILS.
- ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECTS TO 171ST STREET AND 163RD STREET ARE INSTALLED AND OPERATIONAL.



**NOTES FOR TEMPORARY TRAFFIC SIGNAL:**

- ALL CONTROL EQUIPMENT SUCH AS COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
- ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
- ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
- ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.



**CONTINUATION OF THE NOTES FOR TEMPORARY TRAFFIC SIGNAL:**

- THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENT AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
- UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
- TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
- DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
- WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: ORLAND FIRE PROTECTION DISTRICT

- |   |      |                          |
|---|------|--------------------------|
| 2 | EACH | LIGHT DETECTOR           |
| 1 | EACH | LIGHT DETECTOR AMPLIFIER |

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

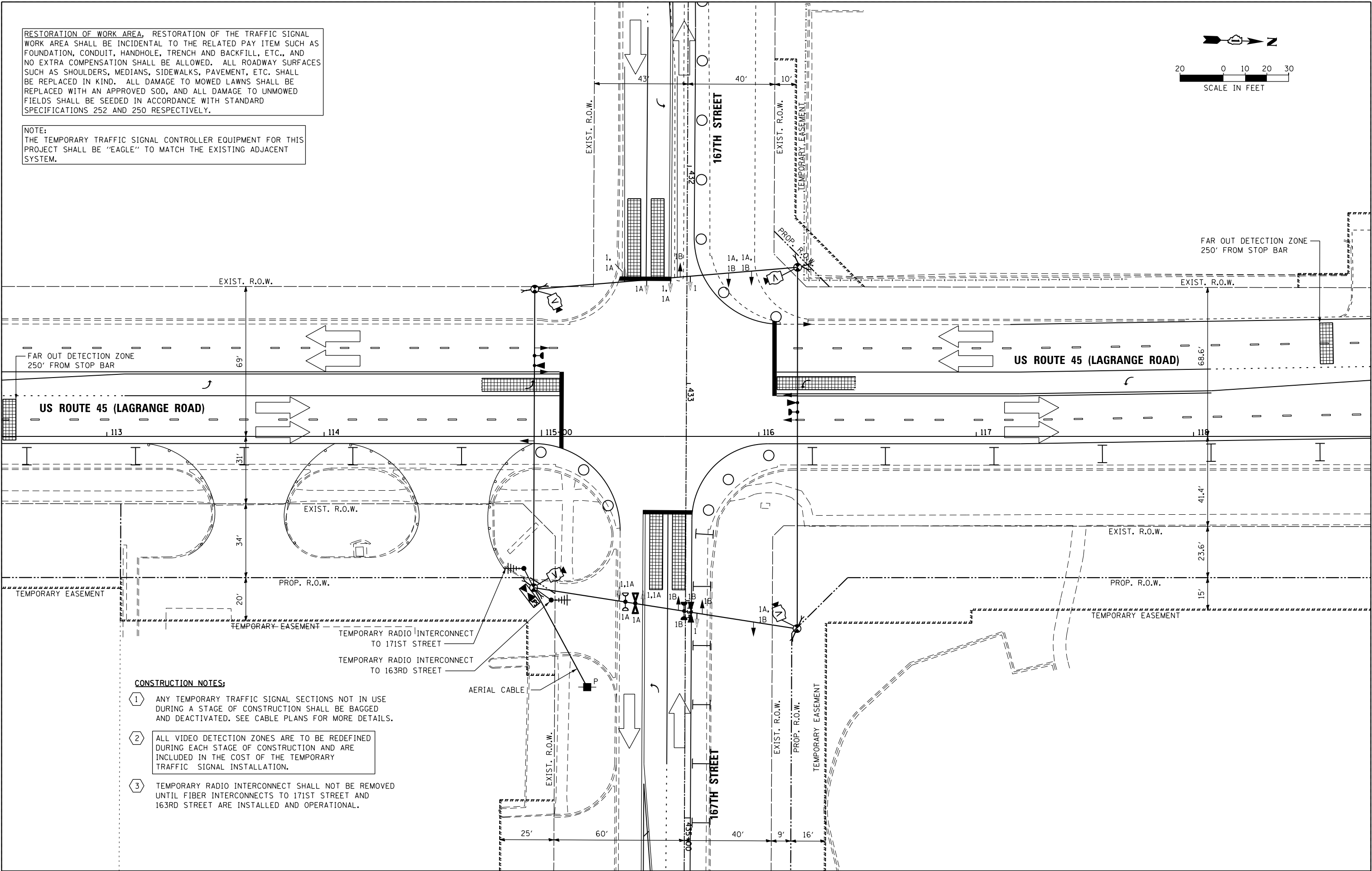
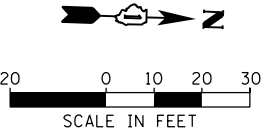
- |   |      |                                     |
|---|------|-------------------------------------|
| 1 | EACH | CONTROLLER AND CABINET ( COMPLETE ) |
| 4 | EACH | MAST ARM ASSEMBLY AND POLE          |
| 4 | EACH | SIGNAL POST                         |
| 2 | EACH | SIGNAL HEAD, 1-FACE, 3-SECTION      |
| 8 | EACH | SIGNAL HEAD, 1-FACE, 5-SECTION      |
| 6 | EACH | TRAFFIC SIGNAL BACKPLATE            |
| 1 | EACH | SERVICE INSTALLATION                |

FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D160F05-SHT-TD25.dgn		DRAWN - MRF	REVISED -
		CHECKED - MJL	REVISED -
SHT_PLAN		DATE - 03/13/13	REVISED -

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	484
TD-25		CONTRACT NO. 60F05		
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 SHOULDERS, MEDIANS, 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.

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



**CONSTRUCTION NOTES:**

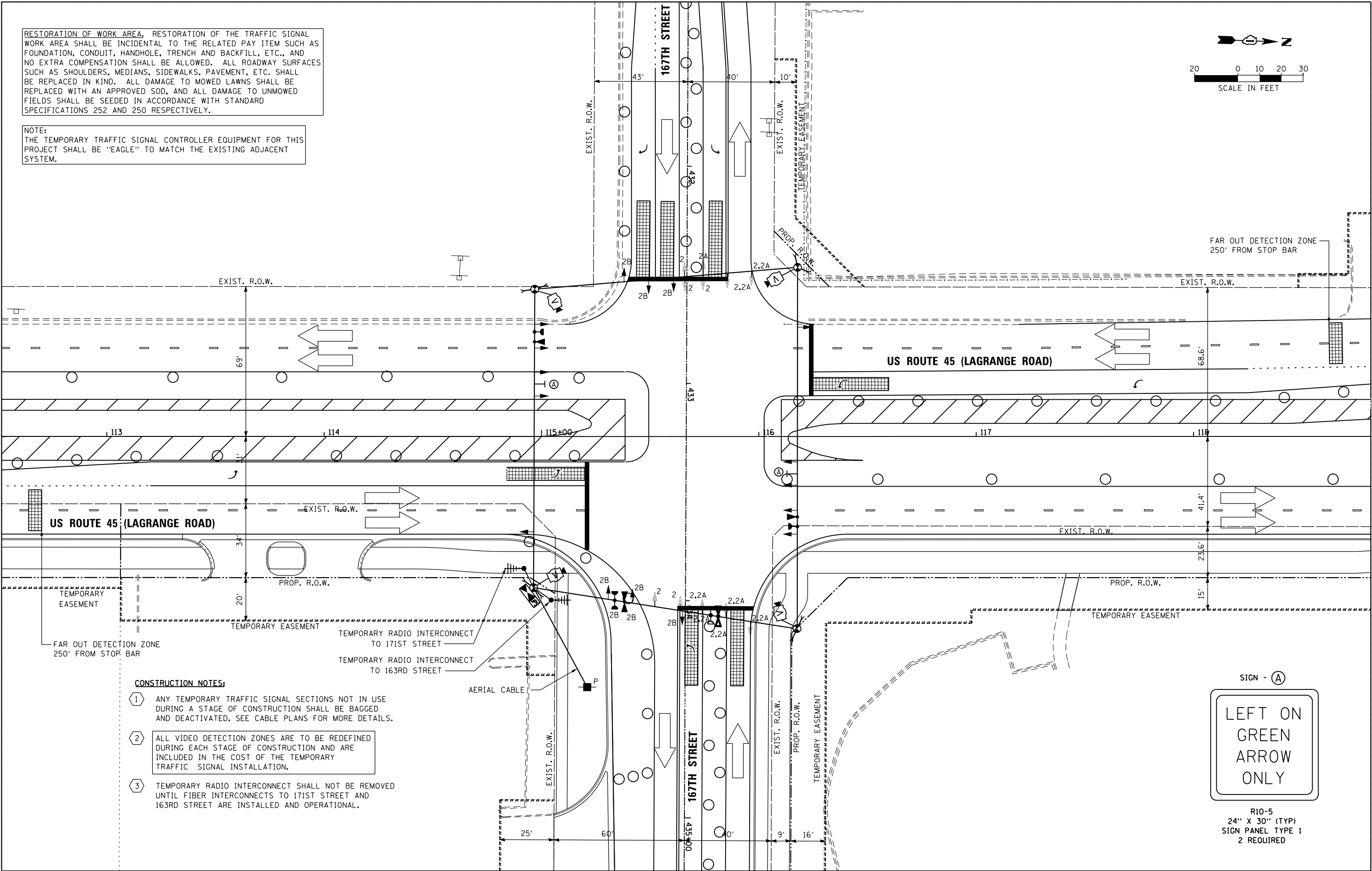
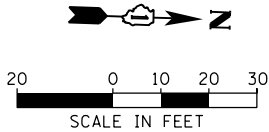
- 1 ANY TEMPORARY TRAFFIC SIGNAL SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND DEACTIVATED. SEE CABLE PLANS FOR MORE DETAILS.
- 2 ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- 3 TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECTS TO 171ST STREET AND 163RD STREET ARE INSTALLED AND OPERATIONAL.

FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D160F05-SHT-TD26.dgn		DRAWN - MRF	REVISED -
		CHECKED - MJL	REVISED -
SHT_PLAN		DATE - 03/13/13	REVISED -

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	485
TD-26		CONTRACT NO. 60F05		
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 SHOULDERS, MEDIANS, 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.

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



CONSTRUCTION NOTES:

- 1 ANY TEMPORARY TRAFFIC SIGNAL SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND DEACTIVATED. SEE CABLE PLANS FOR MORE DETAILS.
- 2 ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- 3 TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECTS TO 171ST STREET AND 163RD STREET ARE INSTALLED AND OPERATIONAL.



R10-5  
24" X 30" (TYP)  
SIGN PANEL TYPE 1  
2 REQUIRED

FILE NAME =	USER NAME = Frank.Stallone
D160F05-SHT-TD27.dgn	
SHT_PLAN	

PLOT SCALE = 40.0025' / in.	CHECKED - MJL
PLOT DATE = 3/14/2013	DATE - 03/13/13

DESIGNED - MRF	REVISED -
DRAWN - MRF	REVISED -
CHECKED - MJL	REVISED -
DATE - 03/13/13	REVISED -

REVISED -	REVISED -
REVISED -	REVISED -
REVISED -	REVISED -
REVISED -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

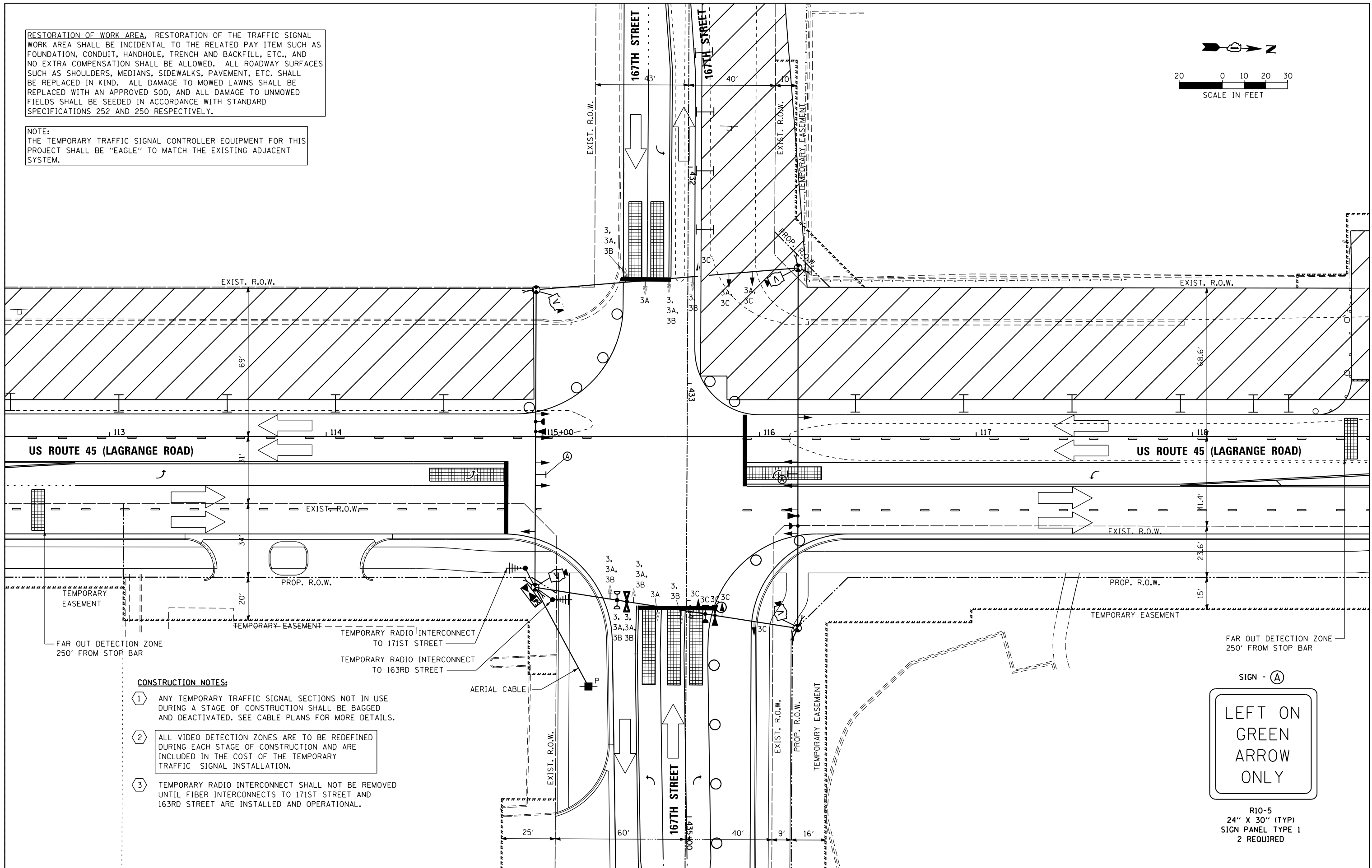
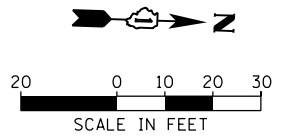
TEMPORARY TRAFFIC SIGNAL INSTALLATION - STAGE 2  
US 45 (LAGRANGE ROAD) AND 167TH STREET

SCALE: 1"=20' SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	486
TD-27		CONTRACT NO. 60F05		
ILLINOIS		FED. AID PROJECT		

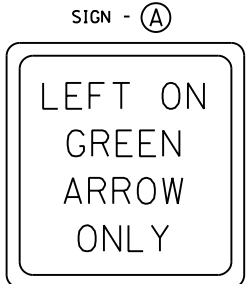
RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL 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.

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



**CONSTRUCTION NOTES:**

- 1 ANY TEMPORARY TRAFFIC SIGNAL SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND DEACTIVATED. SEE CABLE PLANS FOR MORE DETAILS.
- 2 ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- 3 TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECTS TO 171ST STREET AND 163RD STREET ARE INSTALLED AND OPERATIONAL.



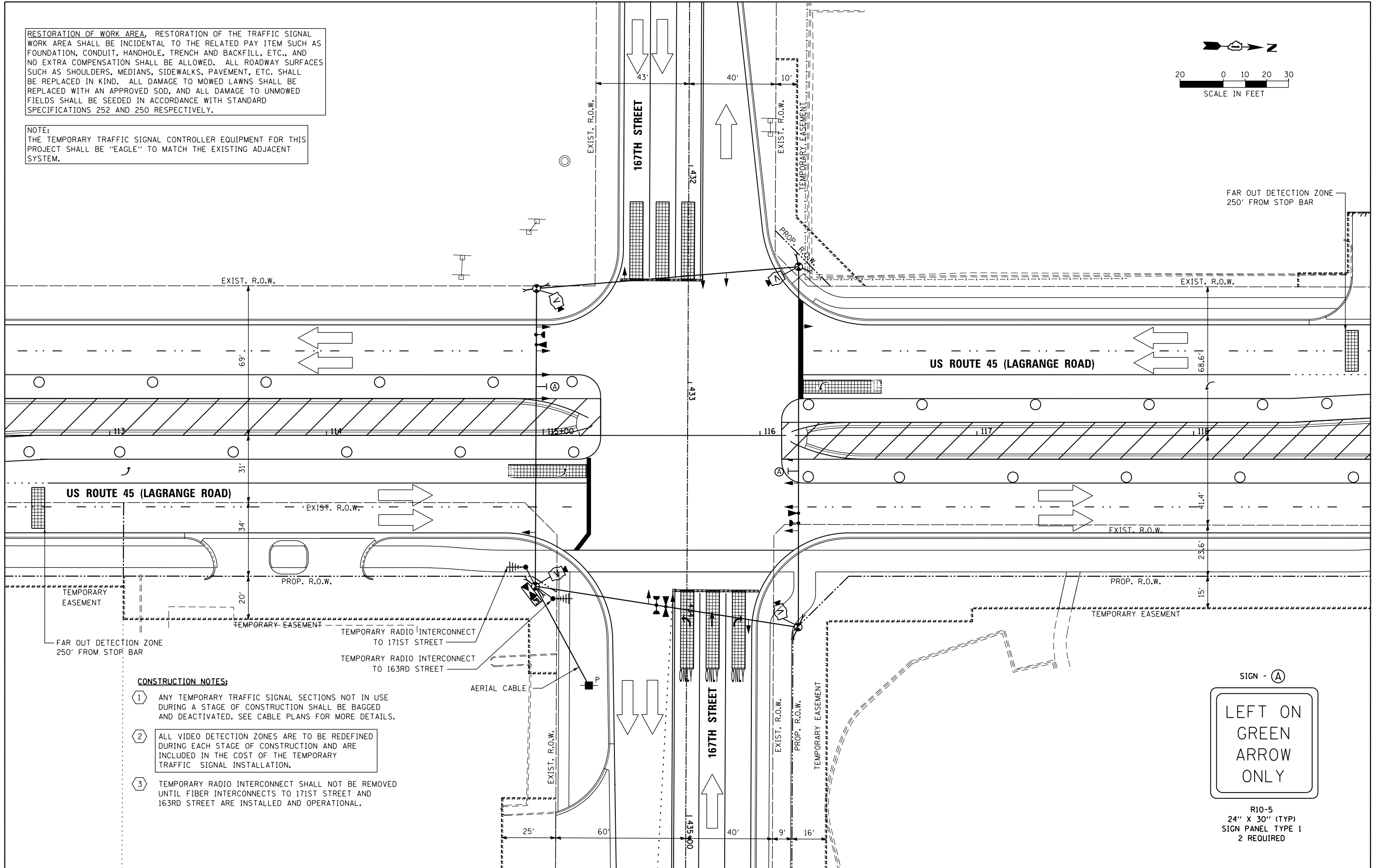
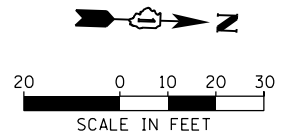
R10-5  
24" X 30" (TYP)  
SIGN PANEL TYPE 1  
2 REQUIRED

FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D:\60F05-SHT-TD28.dgn		DRAWN - MRF	REVISED -
		CHECKED - MJL	REVISED -
SHT_PLAN		DATE - 03/13/13	REVISED -

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	487
TD-28		CONTRACT NO. 60F05		
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 SHOULDERS, MEDIANS, 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.

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



**CONSTRUCTION NOTES:**

- 1 ANY TEMPORARY TRAFFIC SIGNAL SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND DEACTIVATED. SEE CABLE PLANS FOR MORE DETAILS.
- 2 ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- 3 TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECTS TO 171ST STREET AND 163RD STREET ARE INSTALLED AND OPERATIONAL.

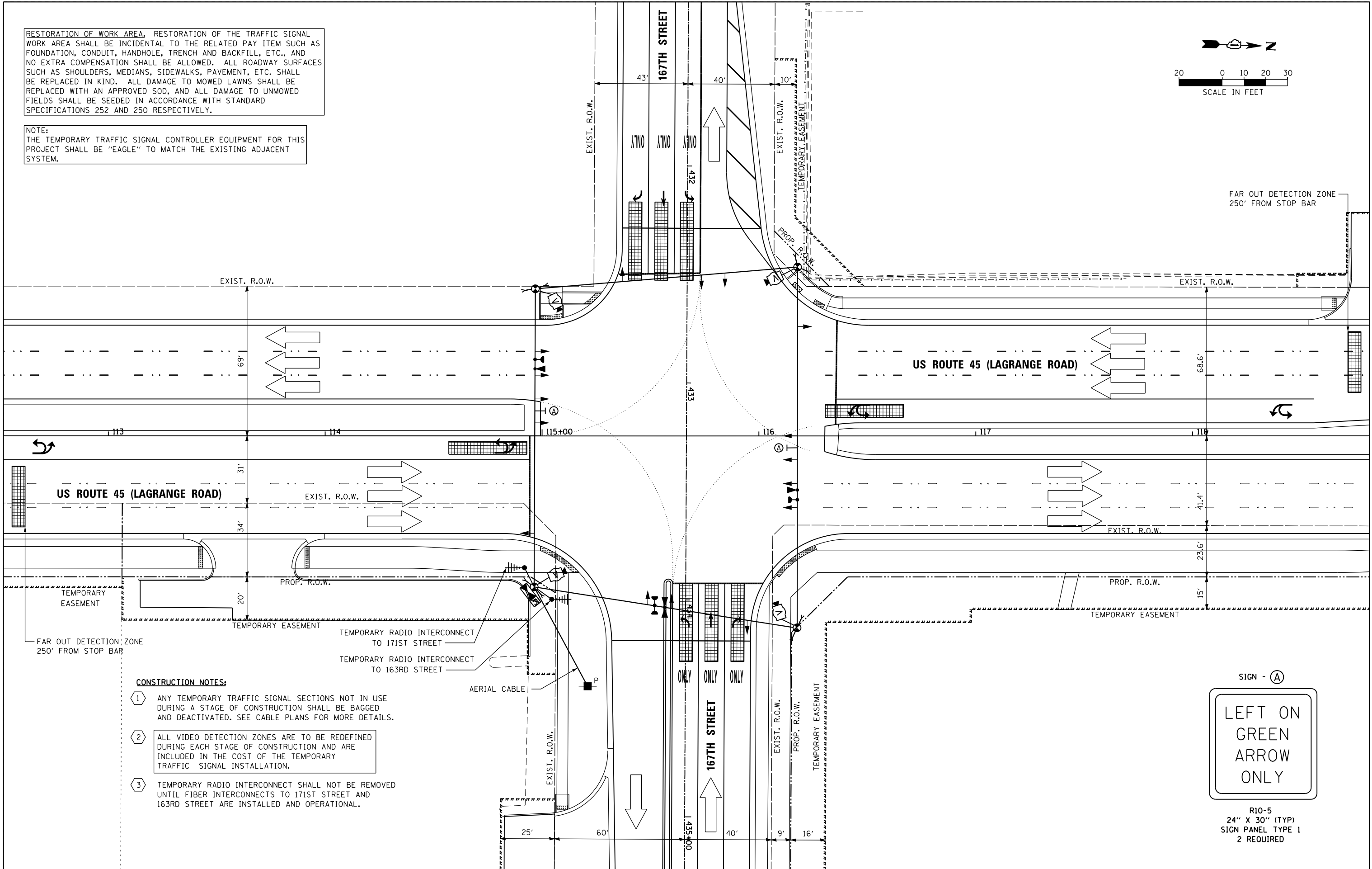
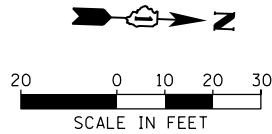
SIGN - (A)



R10-5  
24" X 30" (TYP)  
SIGN PANEL TYPE 1  
2 REQUIRED

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 SHOULDERS, MEDIANS, 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.

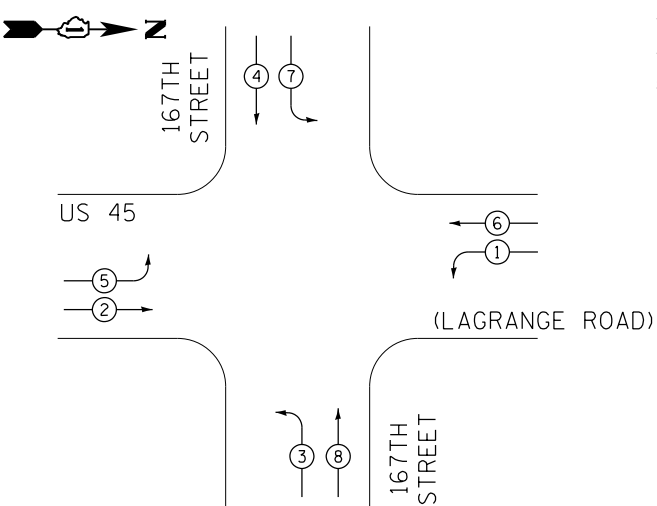
NOTE:  
THE TEMPORARY TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.



**CONSTRUCTION NOTES:**

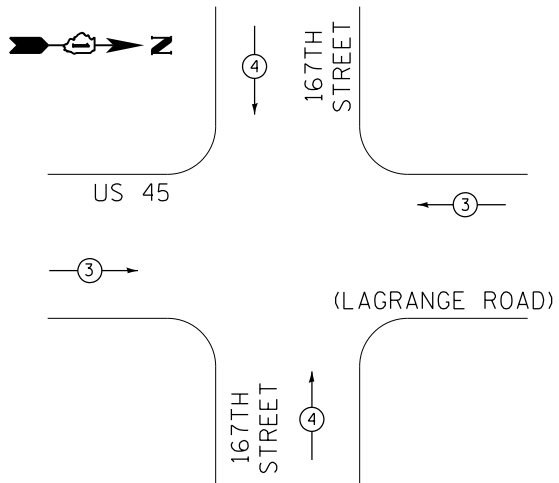
- 1 ANY TEMPORARY TRAFFIC SIGNAL SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND DEACTIVATED. SEE CABLE PLANS FOR MORE DETAILS.
- 2 ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- 3 TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECTS TO 171ST STREET AND 163RD STREET ARE INSTALLED AND OPERATIONAL.

TEMPORARY CONTROLLER SEQUENCE



TEMPORARY PHASE DESIGNATION DIAGRAM

TEMPORARY EMERGENCY VEHICLE  
PREEMPTION SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	← →	↓ ↑

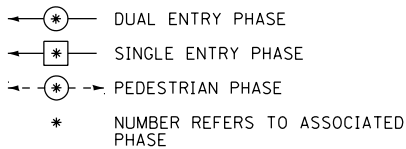
I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCANDE.	LED	% OPERATION	
SIGNAL (RED)	14		17	0.50	119.0
(YELLOW)	14		25	0.25	87.5
(GREEN)	14		15	0.25	52.5
ARROW	16		12	0.10	19.2
PED. SIGNAL	--		25	1.00	0.0
CONTROLLER	1		100	1.00	100.0
ILLUM. SIGN	--		25	0.05	0.0
VIDEO SYSTEM	1		150	1.00	150.0
FLASHER			25	0.50	
ENERGY COST TO:					TOTAL = 528.2

VILLAGE OF ORLAND PARK  
14700 SOUTH RAVINIA AVE.

ENERGY SUPPLY: CONTACT: KATHRYN SUGRUE  
PHONE: (708) 235-2337  
COMPANY: COMMONWEALTH EDISON

FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D160F05-SHT-TD31.dgn		DRAWN - MRF	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - MJL	REVISED -
SHT_PLAN	PLOT DATE = 3/14/2013	DATE - 03/13/13	REVISED -

PHASE DESIGNATION DIAGRAM LEGEND



US ROUTE 45

TEMPORARY RADIO  
INTERCONNECT TO  
171ST STREET

TEMPORARY RADIO  
INTERCONNECT TO  
163RD STREET

TEMPORARY CABLE PLAN  
PRE-STAGE, STAGE 1, 1A, & 1B

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE US 45 (LAGRANGE ROAD) AND 167TH STREET - PRE-STAGE, STAGE 1, 1A, & 1B			
SCALE: N.T.S.	SHEET 1 OF 3 SHEETS	STA.	TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	490
TD-31		CONTRACT NO. 60F05		
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 SHOULDERS, MEDIANS, 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.

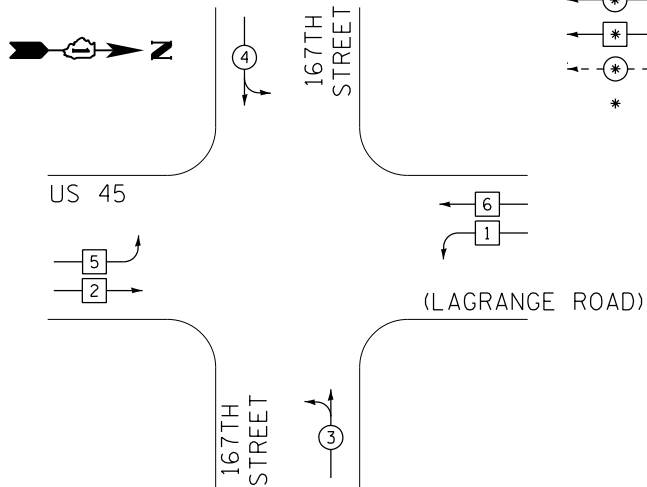
NOTE:  
THE TEMPORARY TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CONSTRUCTION NOTES:

- TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECTS TO 163RD STREET AND 171ST STREET INTERSECTIONS ARE INSTALLED AND OPERATIONAL.
- BAG AND DEACTIVATE SIGNAL SECTION DURING ALL STAGES EXCEPT STAGE 1A.
- BAG AND DEACTIVATE SIGNAL SECTION DURING PRE-STAGE, STAGE 1, 1A, AND 1B.

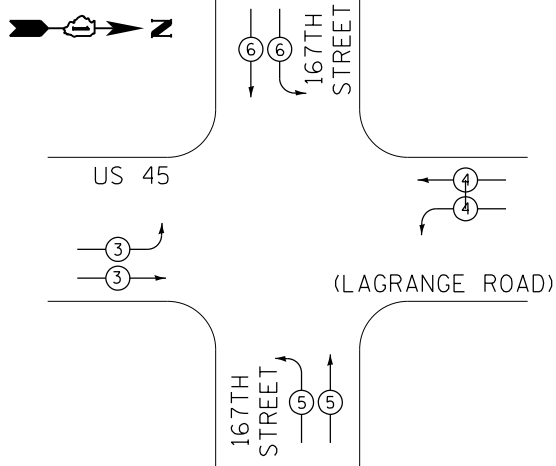
(LAGRANGE ROAD)

TEMPORARY CONTROLLER SEQUENCE



TEMPORARY PHASE DESIGNATION DIAGRAM

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTORS	3	4	5	6
MOVEMENT				

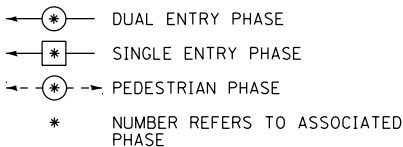
I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	20		17	0.50	170.0
(YELLOW)	20		25	0.25	125.0
(GREEN)	24		15	0.25	90.0
ARROW	8		12	0.10	9.6
PED. SIGNAL	--		25	1.00	0.0
CONTROLLER	1		100	1.00	100.0
ILLUM. SIGN	--		25	0.05	0.0
VIDEO SYSTEM	1		150	1.00	150.0
FLASHER			25	0.50	
ENERGY COST TO:					TOTAL = 644.6

VILLAGE OF ORLAND PARK  
14700 SOUTH RAVINIA AVE.

ENERGY SUPPLY: CONTACT: KATHRYN SUGRUE  
PHONE: (708) 235-2337  
COMPANY: COMMONWEALTH EDISON

FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D160F05-SHT-TD32.dgn		DRAWN - MRF	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - MJL	REVISED -
SHT_PLAN	PLOT DATE = 3/14/2013	DATE - 03/13/13	REVISED -

PHASE DESIGNATION DIAGRAM LEGEND



US ROUTE 45

TEMPORARY RADIO INTERCONNECT TO 171ST STREET

TEMPORARY RADIO INTERCONNECT TO 163RD STREET

TEMPORARY CABLE PLAN  
STAGE 2, 2A, 2B & 3A

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			
US 45 (LAGRANGE ROAD) AND 167TH STREET - STAGE 2, 2A, 2B & 3A			
SCALE: N.T.S.	SHEET 2 OF 3	SHEETS STA.	TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	491
TD-32		CONTRACT NO. 60F05		
ILLINOIS FED. AID PROJECT				

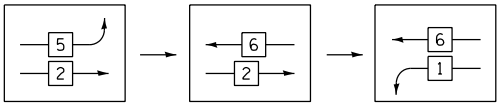
RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL 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.

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

CONSTRUCTION NOTES:

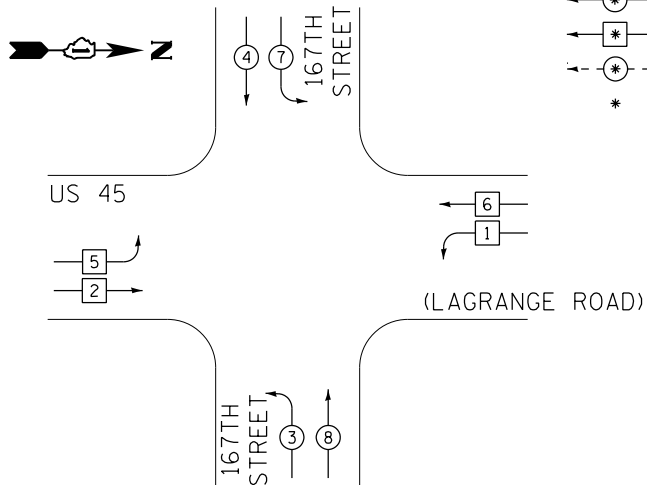
- TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECTS TO 163RD STREET AND 171ST STREET INTERSECTIONS ARE INSTALLED AND OPERATIONAL.
- BAG AND DEACTIVATE SIGNAL SECTION DURING STAGES 2A AND 2B.
- BAG AND DEACTIVATE SIGNAL SECTION DURING STAGES 2A, 2B AND 3A.
- BAG AND DEACTIVATE SIGNAL SECTION DURING STAGES 2, 2A, 2B AND 3A.

FOR PHASES 1, 2, 5, & 6 IN THE PHASE DESIGNATION DIAGRAM SHOWN AT TOP LEFT, THE FOLLOWING PHASE SEQUENCE SHALL BE FOLLOWED DURING STAGES 2, 2A AND 2B:

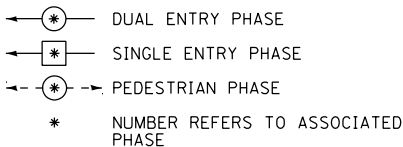


PHASES 3, 4, 7, & 8 SHALL FOLLOW THE STANDARD SEQUENCE IN ACCORDANCE WITH STATE STANDARD 857001

TEMPORARY CONTROLLER SEQUENCE

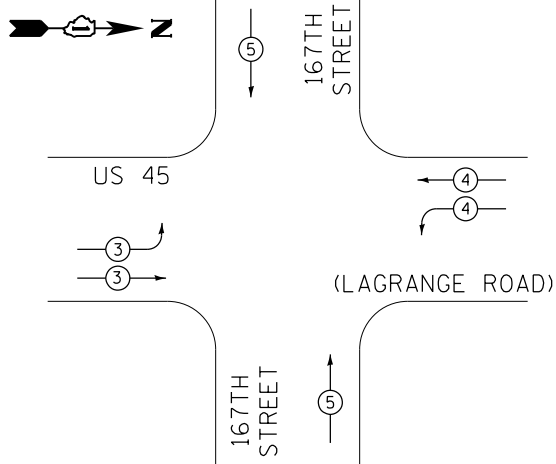


PHASE DESIGNATION DIAGRAM LEGEND



TEMPORARY PHASE DESIGNATION DIAGRAM

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTORS	3	4	5
MOVEMENT			

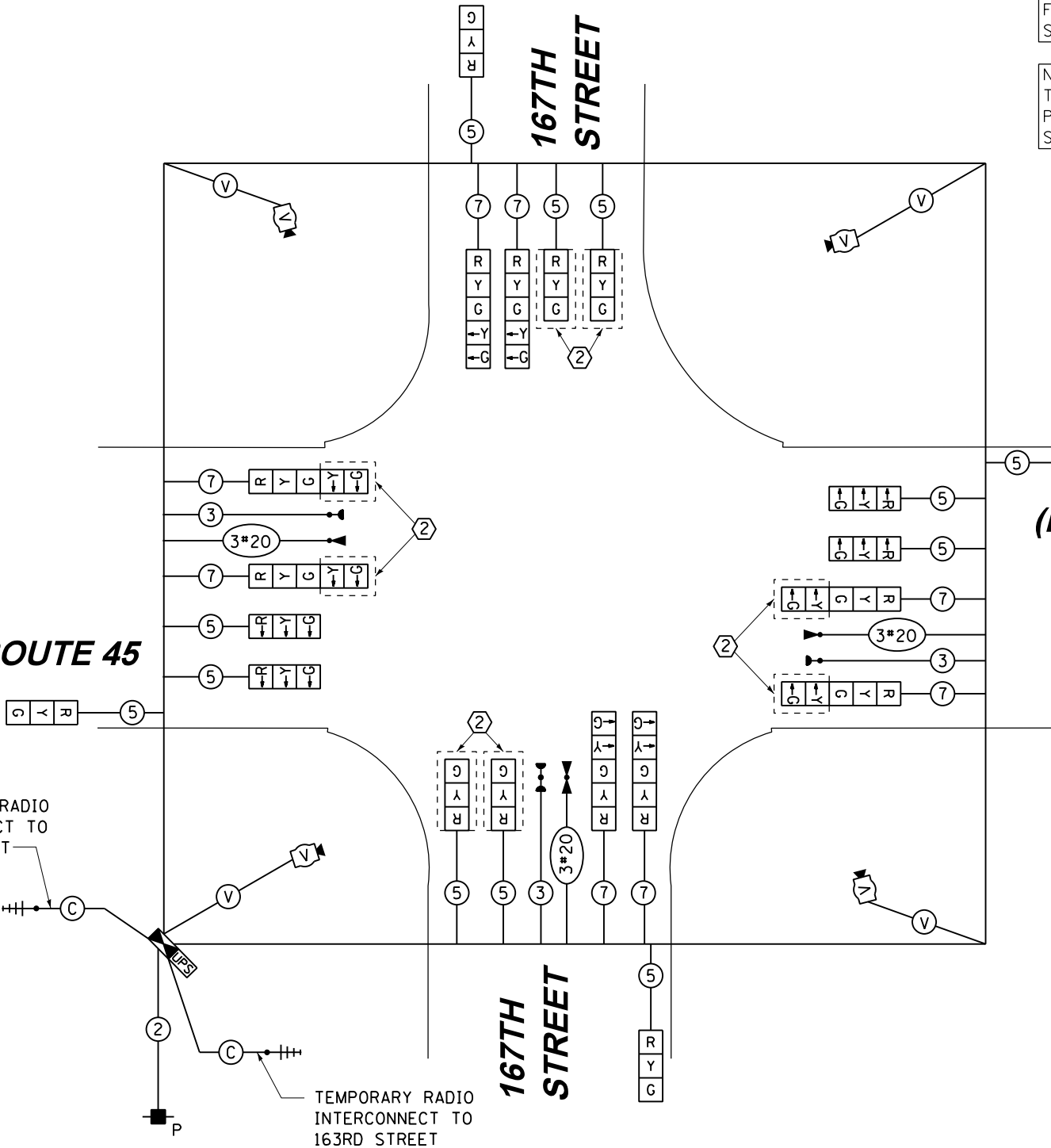
I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE (INCANDE.)	LED	% OPERATION	
SIGNAL (RED)	16		17	0.50	136.0
(YELLOW)	16		25	0.25	100.0
(GREEN)	16		15	0.25	60.0
ARROW	8		12	0.10	9.6
PED. SIGNAL	--		25	1.00	0.0
CONTROLLER	1		100	1.00	100.0
ILLUM. SIGN	--		25	0.05	0.0
VIDEO SYSTEM	1		150	1.00	150.0
FLASHER			25	0.50	
ENERGY COST TO: TOTAL =					555.6

VILLAGE OF ORLAND PARK  
14700 SOUTH RAVINIA AVE.

ENERGY SUPPLY: CONTACT: KATHRYN SUGRUE  
PHONE: (708) 235-2337  
COMPANY: COMMONWEALTH EDISON

FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D160F05-SHT-TD32B.dgn		DRAWN - MRF	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - MJL	REVISED -
SHT_PLAN	PLOT DATE = 3/14/2013	DATE - 03/13/13	REVISED -

TEMPORARY CABLE PLAN  
STAGE 3, 3B, 3C, 4, & FINAL GEOMETRICS



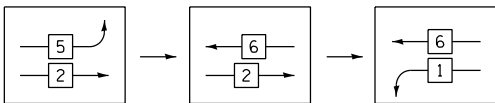
RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL 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.

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

CONSTRUCTION NOTES:

- TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECTS TO 163RD STREET AND 171ST STREET INTERSECTIONS ARE INSTALLED AND OPERATIONAL.
- BAG AND DEACTIVATE SIGNAL SECTION DURING STAGES 3, 3B, 3C, 4 AND FINAL GEOMETRICS.

FOR PHASES 1, 2, 5, & 6 IN THE PHASE DESIGNATION DIAGRAM SHOWN AT TOP LEFT, THE FOLLOWING PHASE SEQUENCE SHALL BE FOLLOWED DURING STAGE 4:



PHASES 3, 4, 7, & 8 SHALL FOLLOW THE STANDARD SEQUENCE IN ACCORDANCE WITH STATE STANDARD 857001

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			
US 45 (LAGRANGE ROAD) AND 167TH STREET - STAGE 3, 3B, 3C, 4, & FINAL GEOMETRICS			
SCALE: N.T.S.	SHEET 3 OF 3	SHEETS STA.	TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	492
TD-32B		CONTRACT NO. 60F05		
ILLINOIS		FED. AID PROJECT		

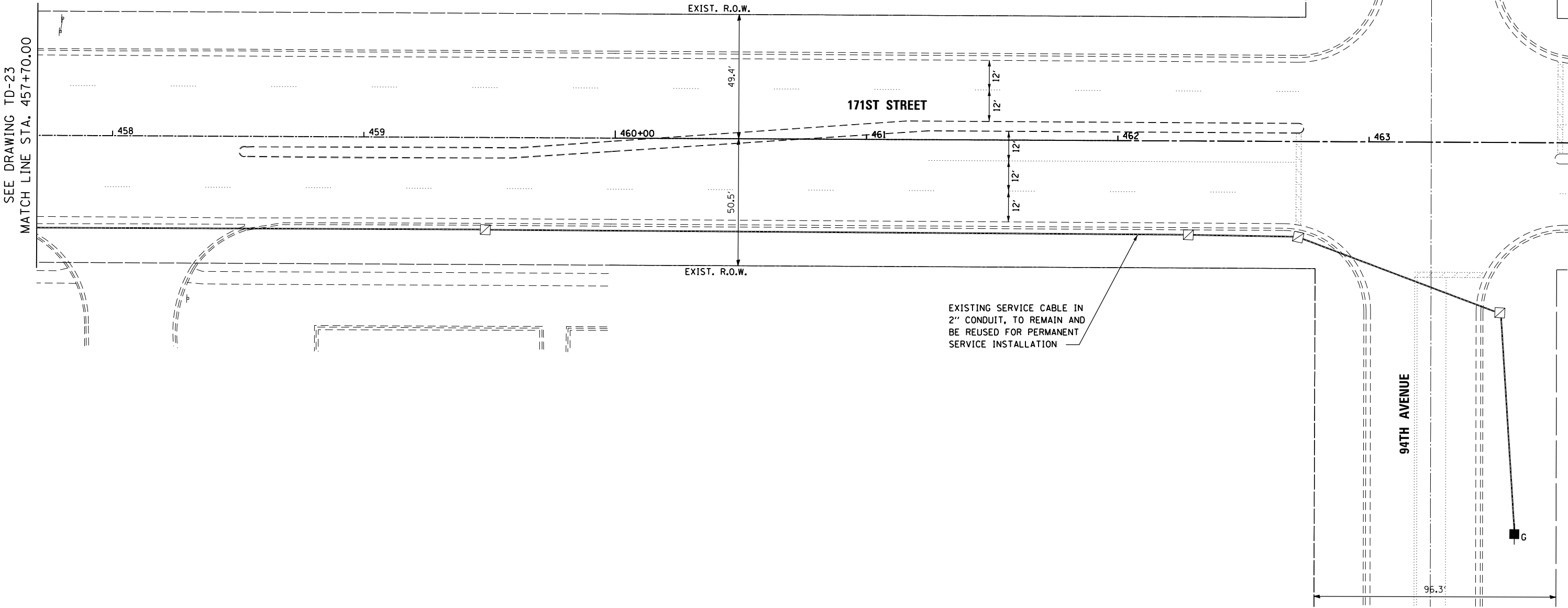
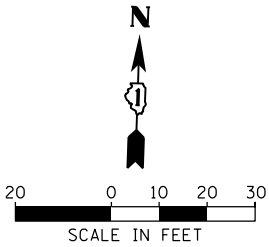
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NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

NOTE:  
GALVANIZED STEEL CONDUIT IDENTIFIED AS IN TRENCH (T) OR PUSHED (P) IS SHOWN FOR INFORMATION ONLY. ALL UNDERGROUND CONDUIT SHALL BE PAID FOR AT THE CONTRACT UNIT PRICER PER FOOT FOR UNDERGROUND CONDUIT, OF THE TYPE AND SIZE SPECIFIED, REGARDLESS OF THE METHOD OF INSTALLATION.

GENERAL NOTES

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.
- THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL 'JULIE' AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOUR NOTIFICATION REQUIRED).
- THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.

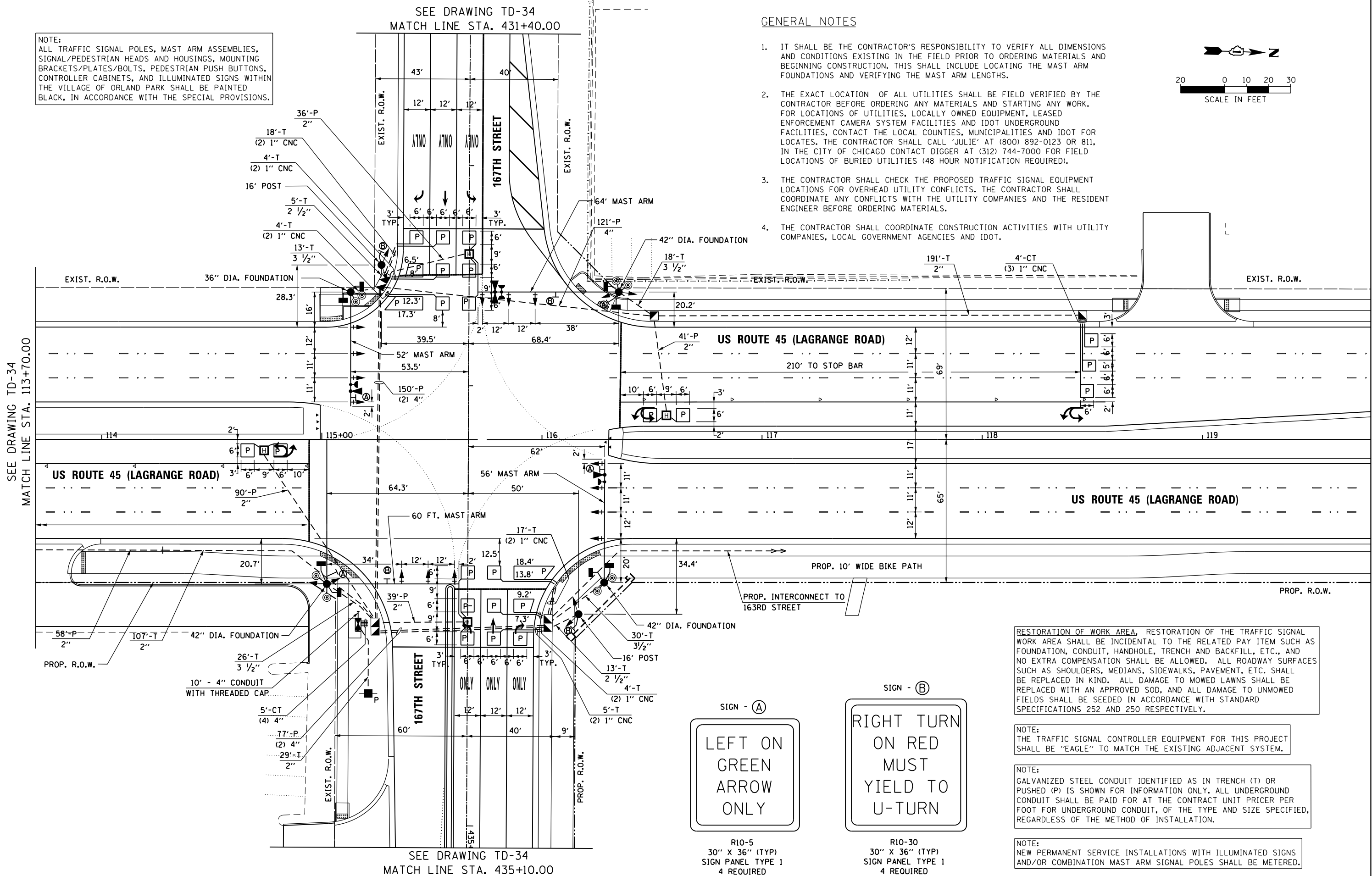
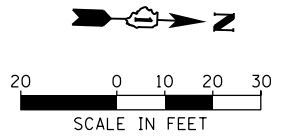


FILE NAME = D160F05-SHT-TD23A.dgn	USER NAME = Frank.Stallone		DESIGNED - MRF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL INSTALLATION PLAN US 45 (LAGRANGE ROAD) AND 171ST STREET		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - MRF		CHECKED - MJL	REVISED -				330	103R-3	COOK	932	493
	PLOT SCALE = 40.0000' / in.		DATE - 03/13/13	REVISED -				TD-23A		CONTRACT NO. 60F05		
SHT.PLAN	PLOT DATE = 3/14/2013						SCALE: 1"=20'	SHEET 3 OF 3 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

NOTE:  
ALL TRAFFIC SIGNAL POLES, MAST ARM ASSEMBLIES, SIGNAL/PEDESTRIAN HEADS AND HOUSINGS, MOUNTING BRACKETS/PLATES/BOLTS, PEDESTRIAN PUSH BUTTONS, CONTROLLER CABINETS, AND ILLUMINATED SIGNS WITHIN THE VILLAGE OF ORLAND PARK SHALL BE PAINTED BLACK, IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

## GENERAL NOTES

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.
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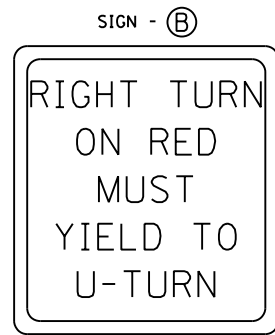


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NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE 'EAGLE' TO MATCH THE EXISTING ADJACENT SYSTEM.

NOTE:  
GALVANIZED STEEL CONDUIT IDENTIFIED AS IN TRENCH (T) OR PUSHED (P) IS SHOWN FOR INFORMATION ONLY. ALL UNDERGROUND CONDUIT SHALL BE PAID FOR AT THE CONTRACT UNIT PRICER PER FOOT FOR UNDERGROUND CONDUIT, OF THE TYPE AND SIZE SPECIFIED, REGARDLESS OF THE METHOD OF INSTALLATION.

NOTE:  
NEW PERMANENT SERVICE INSTALLATIONS WITH ILLUMINATED SIGNS AND/OR COMBINATION MAST ARM SIGNAL POLES SHALL BE METERED.



R10-5  
30" X 36" (TYP)  
SIGN PANEL TYPE 1  
4 REQUIRED

R10-30  
30" X 36" (TYP)  
SIGN PANEL TYPE 1  
4 REQUIRED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN  
US 45 (LAGRANGE ROAD) AND 167TH STREET

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. TO STA.

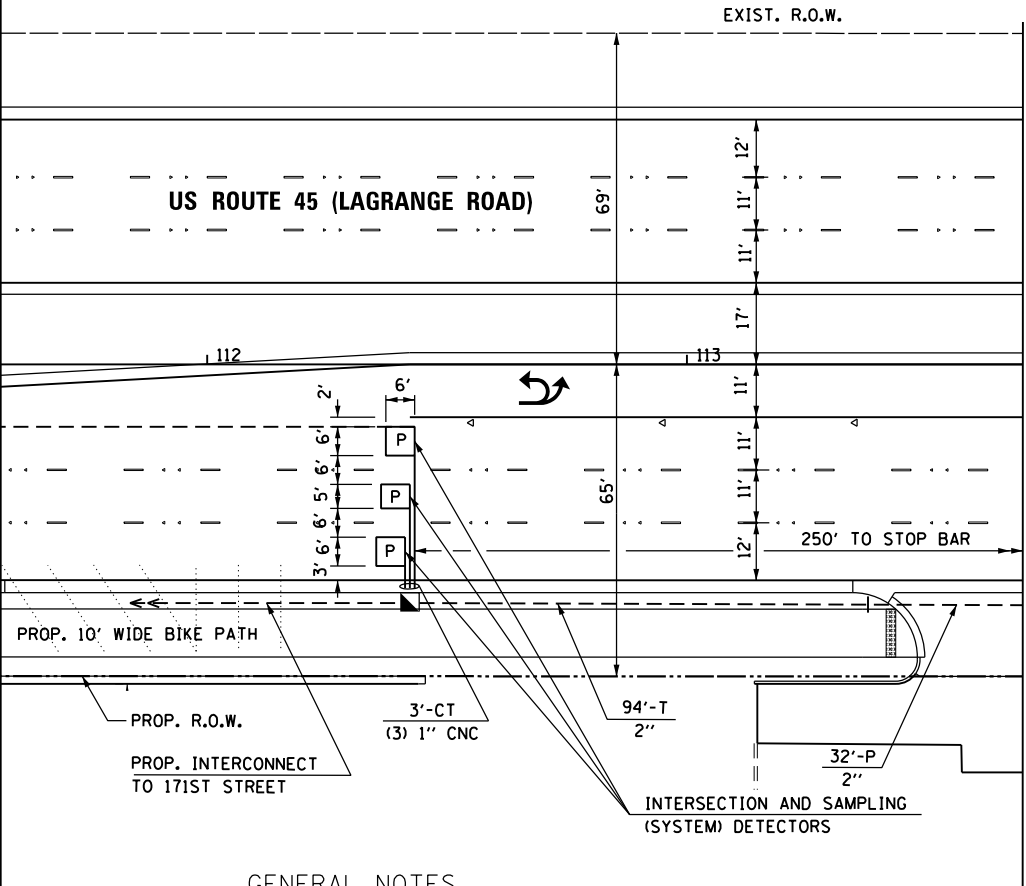
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	494
TD-33		CONTRACT NO. 60F05		
ILLINOIS FED. AID PROJECT				

FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D160F05-SHT-TD33.dgn		DRAWN - MRF	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - MJL	REVISED -
SHT_PLAN	PLOT DATE = 3/14/2013	DATE - 03/13/13	REVISED -

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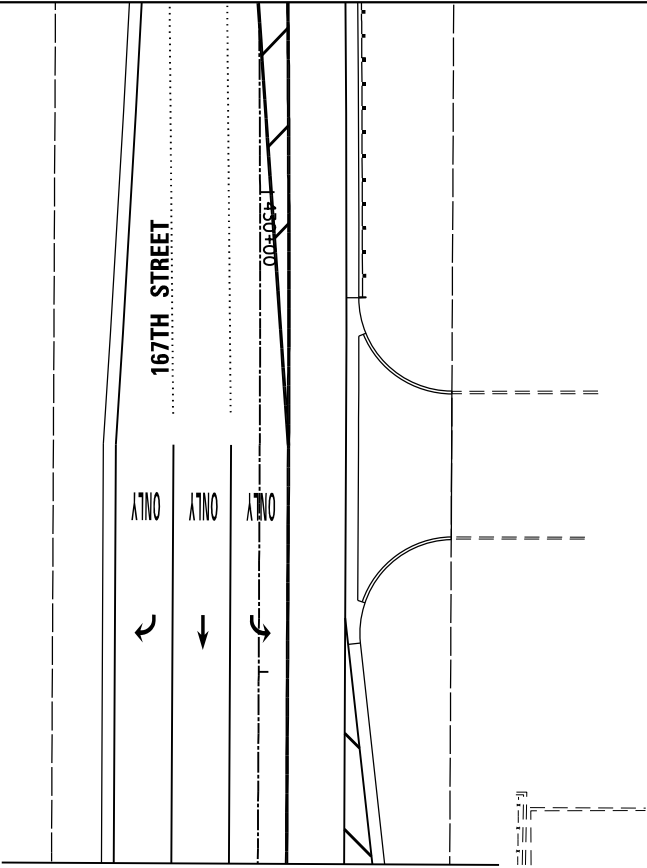


GENERAL NOTES

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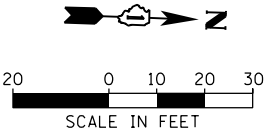
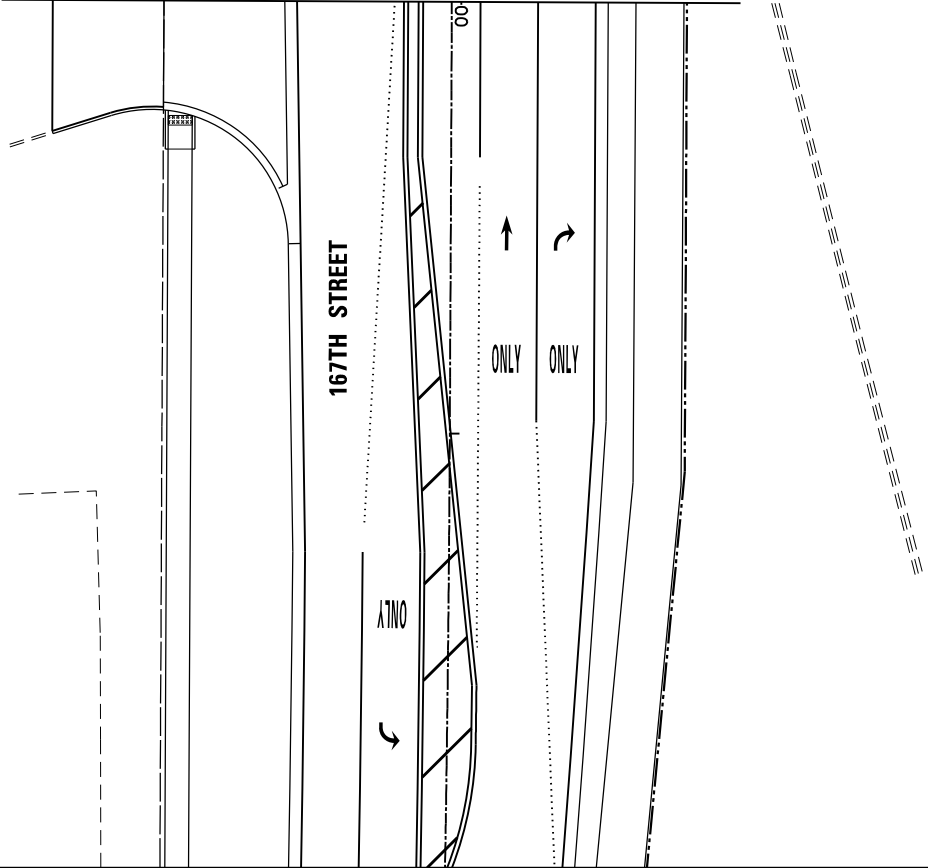
FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D160F05-SHT-TD34.dgn		DRAWN - MRF	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - MJL	REVISED -
SHT_PLAN	PLOT DATE = 3/14/2013	DATE - 03/13/13	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



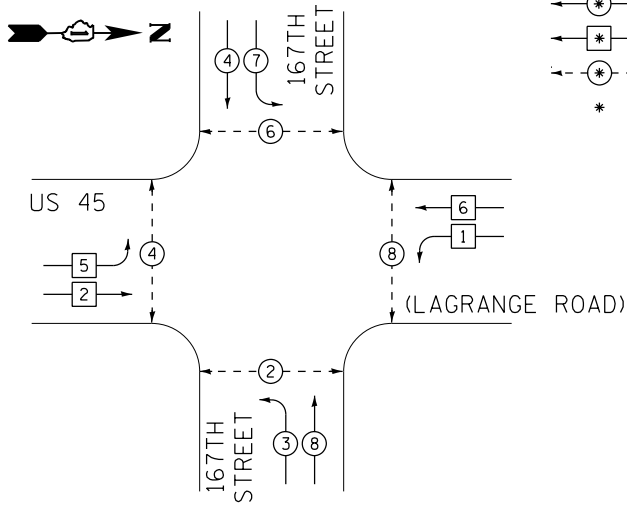
SEE DRAWING TD-33  
MATCH LINE STA. 431+40.00

SEE DRAWING TD-33  
MATCH LINE STA. 435+10.00



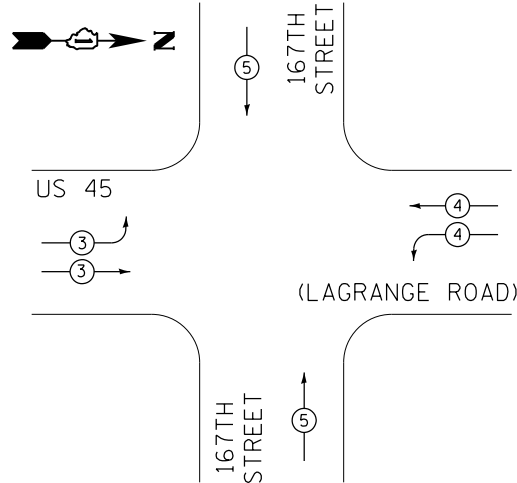
TRAFFIC SIGNAL INSTALLATION PLAN				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 45 (LAGRANGE ROAD) AND 167TH STREET				330	103R-3	COOK	932	495
				TD-34		CONTRACT NO. 60F05		
				ILLINOIS FED. AID PROJECT				
SCALE: 1"=20'	SHEET 2 OF 2 SHEETS	STA. TO STA.						

### CONTROLLER SEQUENCE



### PHASE DESIGNATION DIAGRAM

### EMERGENCY VEHICLE PREEMPTION SEQUENCE



### PHASE DESIGNATION DIAGRAM LEGEND

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

### SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
SIGN PANEL - TYPE 1	SQ FT	60
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	717
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	18
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA.	FOOT	87
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	597
HANDHOLE	EACH	3
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	3
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1529
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2492
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3203
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1755
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2818
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	47
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	675
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 56 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 60 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 64 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	63
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	12
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
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	14
INDUCTIVE LOOP DETECTOR	EACH	12
PREFORMED DETECTOR LOOP	FOOT	996
* LIGHT DETECTOR	EACH	3
* LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	8
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
* ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	907
** LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
* 100% COST TO ORLAND FIRE PROTECTION DISTRICT		
** 100% COST TO VILLAGE OF ORLAND PARK		

PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTORS	3	4	5
MOVEMENT			

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE	INCAND.	LED	
SIGNAL (RED)	22	17		0.50	187.0
(YELLOW)	22	25		0.25	137.5
(GREEN)	22	15		0.25	82.5
ARROW	8	12		0.10	9.6
PED. SIGNAL	4	25		1.00	100.0
CONTROLLER	1	100		1.00	100.0
ILLUM. SIGN	4	25		0.05	5.0
FLASHER		25		0.50	
ENERGY COST TO:	TOTAL =				621.6

VILLAGE OF ORLAND PARK  
14700 SOUTH RAVINIA AVE.

ENERGY SUPPLY: CONTACT: KATHRYN SUGRUE  
PHONE: (708) 235-2337  
COMPANY: COMMONWEALTH EDISON

FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D160F05-SHT-TD35.dgn		DRAWN - MRF	REVISED -
		CHECKED - MJL	REVISED -
SHT_PLAN		DATE - 03/13/13	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

### SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE US 45 (LAGRANGE ROAD) AND 167TH STREET

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	496
TS-35		CONTRACT NO. 60F05		
ILLINOIS FED. AID PROJECT				

### US ROUTE 45

### PROP. INTERSECTION AND (SAMPLING) SYSTEM DETECTORS

### TRACER CABLE

### PROP. INTERCONNECT TO 171ST STREET

### CABLE PLAN

1 PROTECTED RIGHT TURN ARROWS SHALL NOT BE PROVIDED, HOWEVER A 7-CONDUCTOR CABLE SHALL BE INSTALLED AS SHOWN (FOR FUTURE USE).

### (LAGRANGE ROAD)

### PROP. INTERCONNECT TO 163RD STREET

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 SHOULDERS, MEDIANS, 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.

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

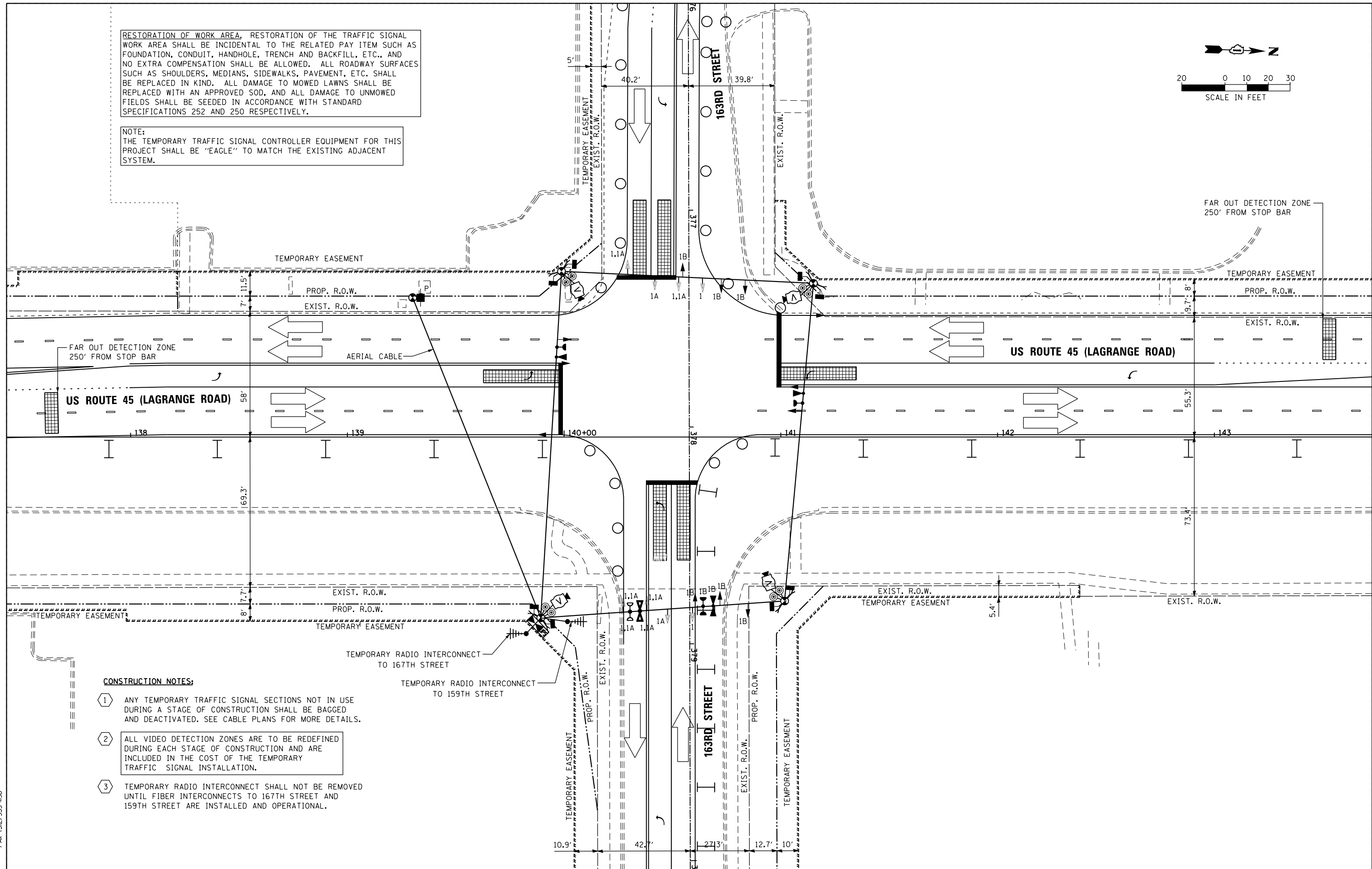
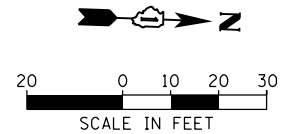
NOTE: NEW PERMANENT SERVICE INSTALLATIONS WITH ILLUMINATED SIGNS AND/OR COMBINATION MAST ARM SIGNAL POLES SHALL BE METERED.

NOTE: ALL TRAFFIC SIGNAL POLES, MAST ARM ASSEMBLIES, SIGNAL/PEDESTRIAN HEADS AND HOUSINGS, MOUNTING BRACKETS/PLATES/BOLTS, PEDESTRIAN PUSH BUTTONS, CONTROLLER CABINETS, AND ILLUMINATED SIGNS WITHIN THE VILLAGE OF ORLAND PARK SHALL BE PAINTED BLACK, IN ACCORDANCE WITH THE SPECIAL PROVISIONS.



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 SHOULDERS, MEDIANS, 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.

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



**CONSTRUCTION NOTES:**

- 1 ANY TEMPORARY TRAFFIC SIGNAL SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND DEACTIVATED. SEE CABLE PLANS FOR MORE DETAILS.
- 2 ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- 3 TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECTS TO 167TH STREET AND 159TH STREET ARE INSTALLED AND OPERATIONAL.

FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D:\60F05-SHT-TD37.dgn		DRAWN - MRF	REVISED -
	PLOT SCALE = 40.0038' / in.	CHECKED - MJL	REVISED -
SHT_PLAN	PLOT DATE = 3/14/2013	DATE - 03/13/13	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

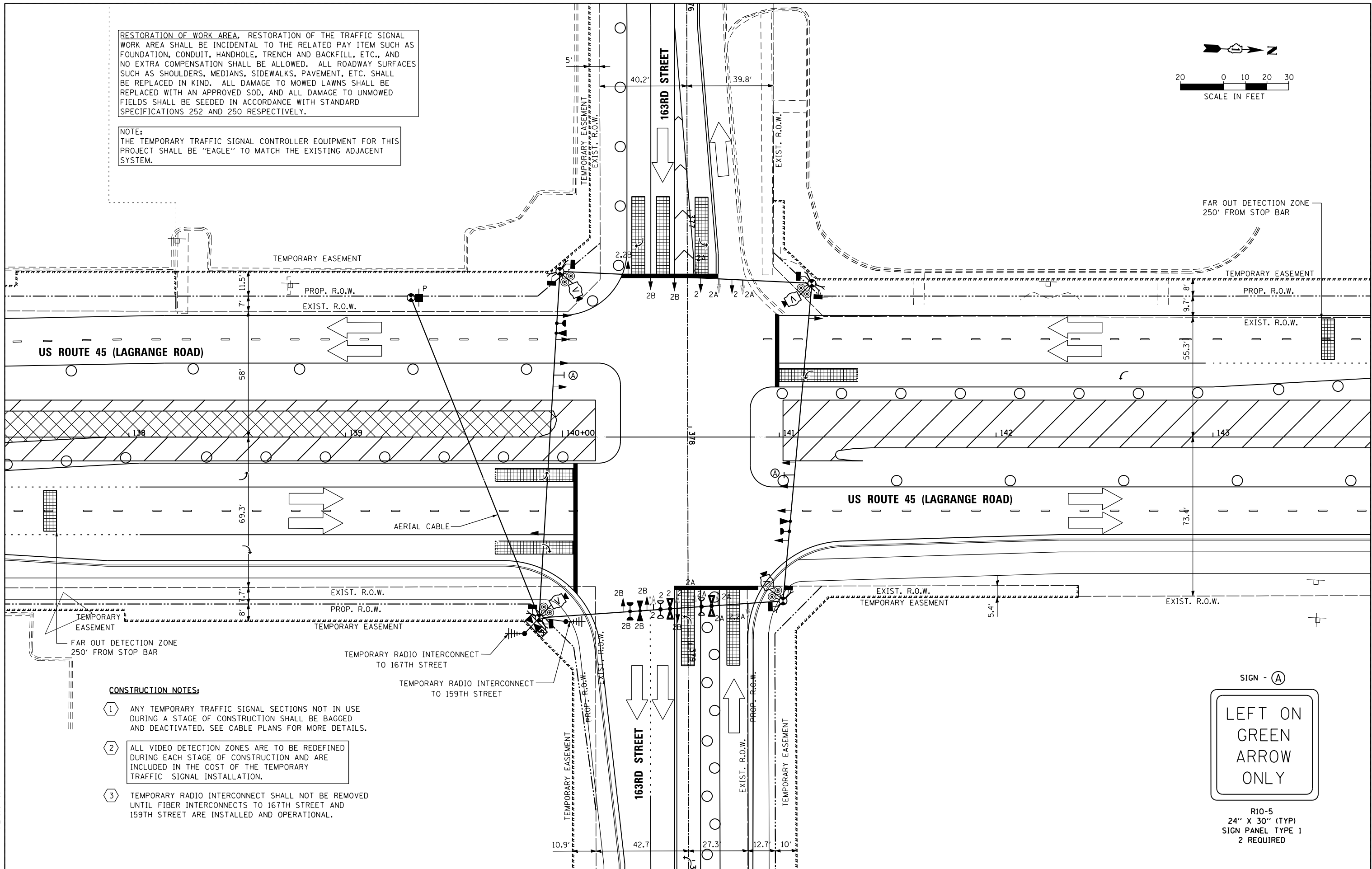
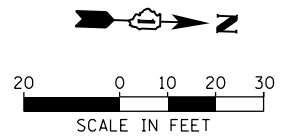
**TEMPORARY TRAFFIC SIGNAL INSTALLATION - STAGE 1  
US 45 (LAGRANGE ROAD) AND 163RD STREET**

SCALE: 1"=20' SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	498
TD-37		CONTRACT NO. 60F05		
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 SHOULDERS, MEDIANS, 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.

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



**CONSTRUCTION NOTES:**

- 1 ANY TEMPORARY TRAFFIC SIGNAL SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND DEACTIVATED. SEE CABLE PLANS FOR MORE DETAILS.
- 2 ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- 3 TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECTS TO 167TH STREET AND 159TH STREET ARE INSTALLED AND OPERATIONAL.

SIGN - (A)



R10-5  
24" X 30" (TYP)  
SIGN PANEL TYPE 1  
2 REQUIRED

FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D160F05-SHT-TD38.dgn		DRAWN - MRF	REVISED -
		CHECKED - MJL	REVISED -
SHT_PLAN		DATE - 03/13/13	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

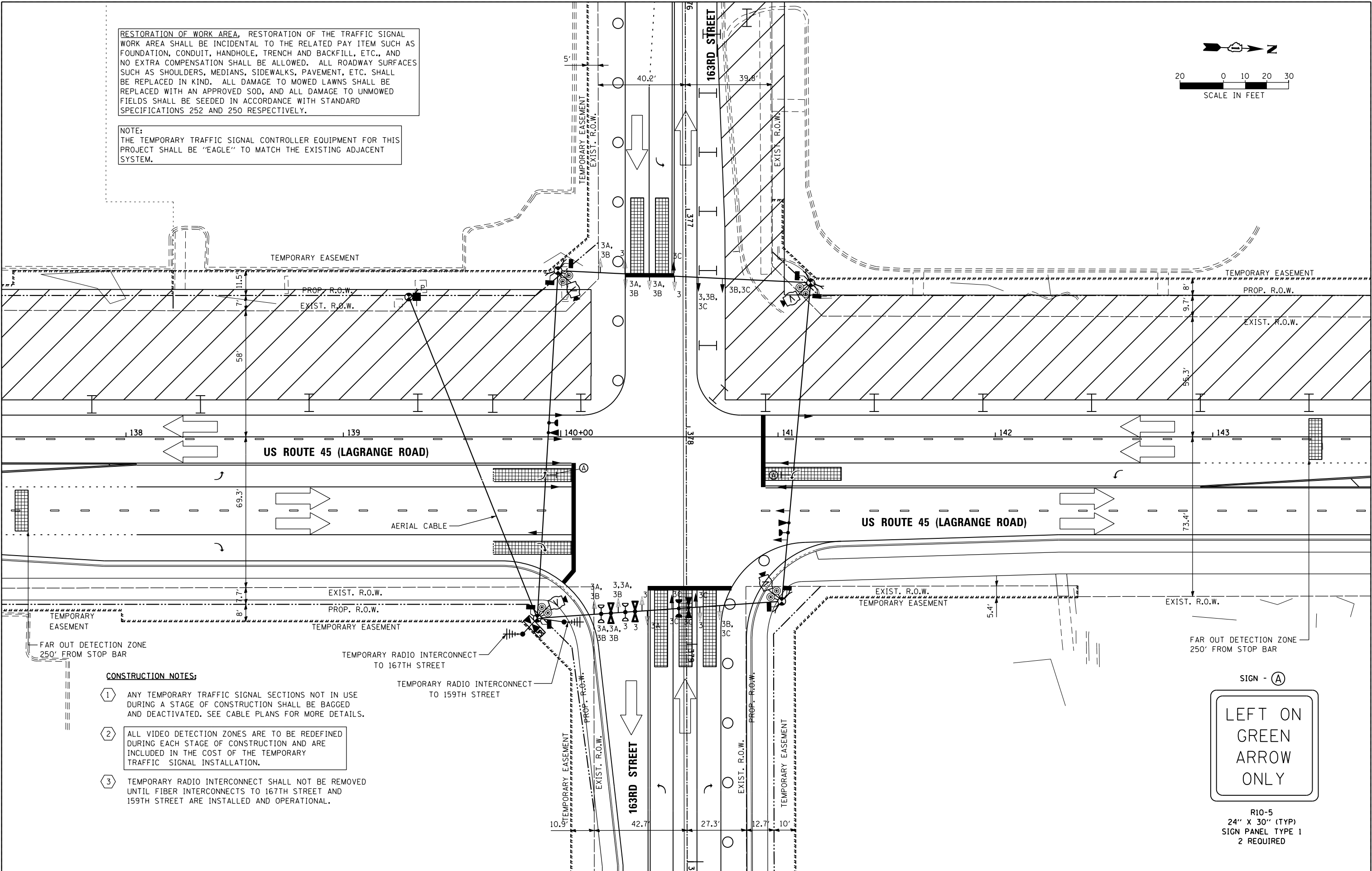
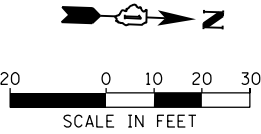
TEMPORARY TRAFFIC SIGNAL INSTALLATION - STAGE 2  
US 45 (LAGRANGE ROAD) AND 163RD STREET

SCALE: 1"=20' SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	499
TD-38		CONTRACT NO. 60F05		
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 SHOULDERS, MEDIANS, 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 SEED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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



**CONSTRUCTION NOTES:**

- 1 ANY TEMPORARY TRAFFIC SIGNAL SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND DEACTIVATED. SEE CABLE PLANS FOR MORE DETAILS.
- 2 ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- 3 TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECTS TO 167TH STREET AND 159TH STREET ARE INSTALLED AND OPERATIONAL.



R10-5  
24" X 30" (TYP)  
SIGN PANEL TYPE 1  
2 REQUIRED

FILE NAME =	USER NAME = Frank.Stallone	DESIGNED - MRF	REVISED -
D160F05-SHT-TD39.dgn		DRAWN - MRF	REVISED -
		CHECKED - MJL	REVISED -
SHT_PLAN		DATE - 03/13/13	REVISED -

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	500
TD-39		CONTRACT NO. 60F05		
ILLINOIS		FED. AID PROJECT		