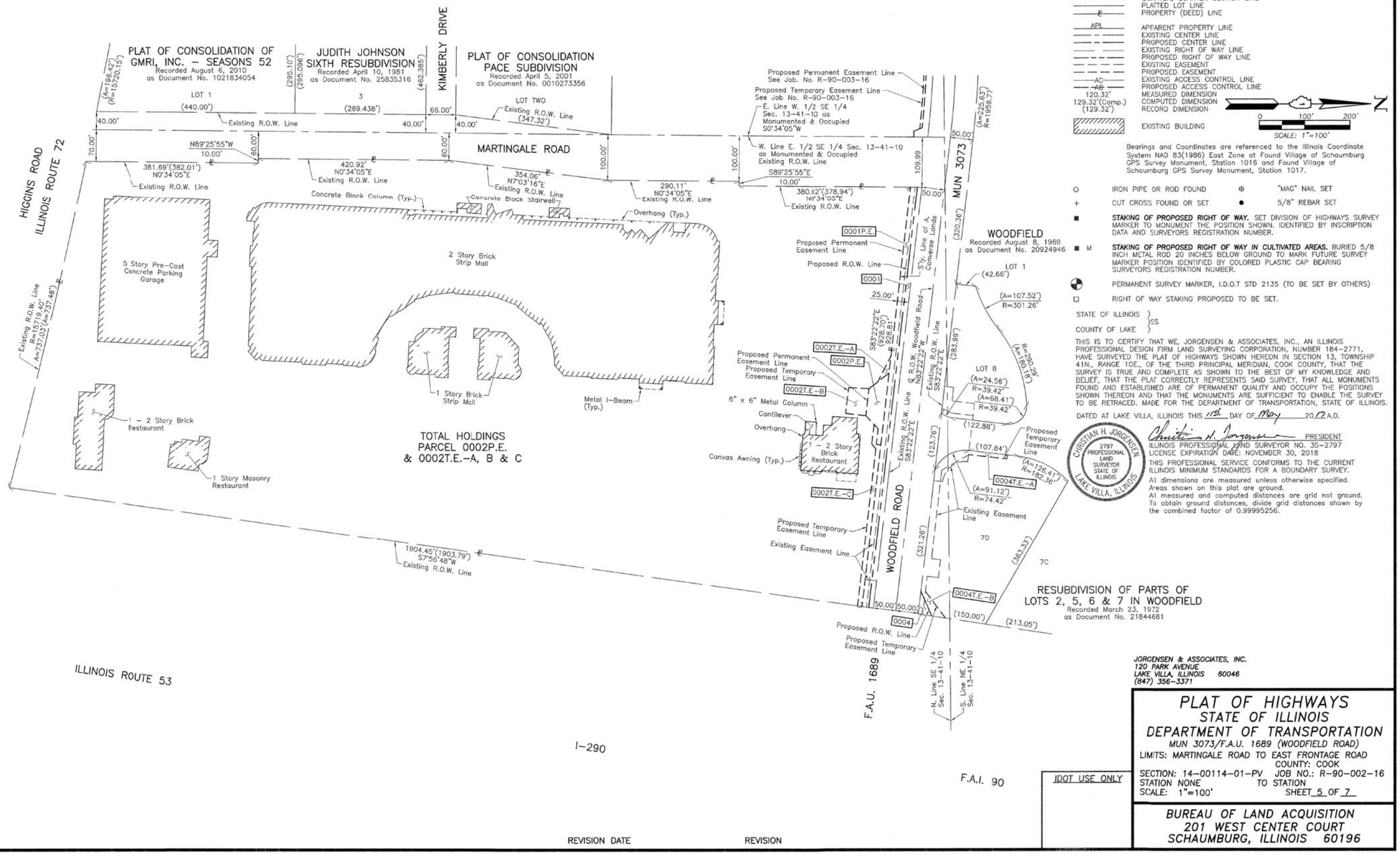
PART OF THE EAST 1/2 OF SEC. 13, TWP. 41 N., R. 10 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.



LEGEND

- SECTION CORNER (9 10 / 16 15)
- QUARTER SECTION CORNER (16 — 15)
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL — APPARENT PROPERTY LINE
- EXISTING CENTER LINE
- PROPOSED CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- AC — EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL LINE
- 120.32' MEASURED DIMENSION
- 129.32'(Comp.) COMPUTED DIMENSION
- (129.32') RECORD DIMENSION
- EXISTING BUILDING

0 100' 200' N

SCALE: 1"=100'

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(1986) East Zone at Found Village of Schaumburg GPS Survey Monument, Station 1016 and Found Village of Schaumburg GPS Survey Monument, Station 1017.

- ○ IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- \+ CUT CROSS FOUND OR SET
- ● 5/8" REBAR SET
- ■ ***STAKING OF PROPOSED RIGHT OF WAY.*** SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M ***STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.*** BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ⊕ PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS } SS
COUNTY OF LAKE }

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 13, TOWNSHIP 41N., RANGE 10E., OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, 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 LAKE VILLA, ILLINOIS THIS 11th DAY OF May 2012 A.D.

CHRISTIAN H. JORGENSEN 2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS LAKE VILLA, ILLINOIS

Christian H. Jorgensen PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2018

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

All dimensions are measured unless otherwise specified.
Areas shown on this plat are ground.
All measured and computed distances are grid not ground.
To obtain ground distances, divide grid distances shown by the combined factor of 0.99995256.

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MUN 3073/F.A.U. 1689 (WOODFIELD ROAD)
LIMITS: MARTINGALE ROAD TO EAST FRONTAGE ROAD
COUNTY: COOK
SECTION: 14-00114-01-PV JOB NO.: R-90-002-16
STATION NONE TO STATION
SCALE: 1"=100' SHEET 5 OF 7

IDOT USE ONLY

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

REVISION DATE REVISION

FILE NAME = ...\11-PlatsofHighways\Plats.dgn

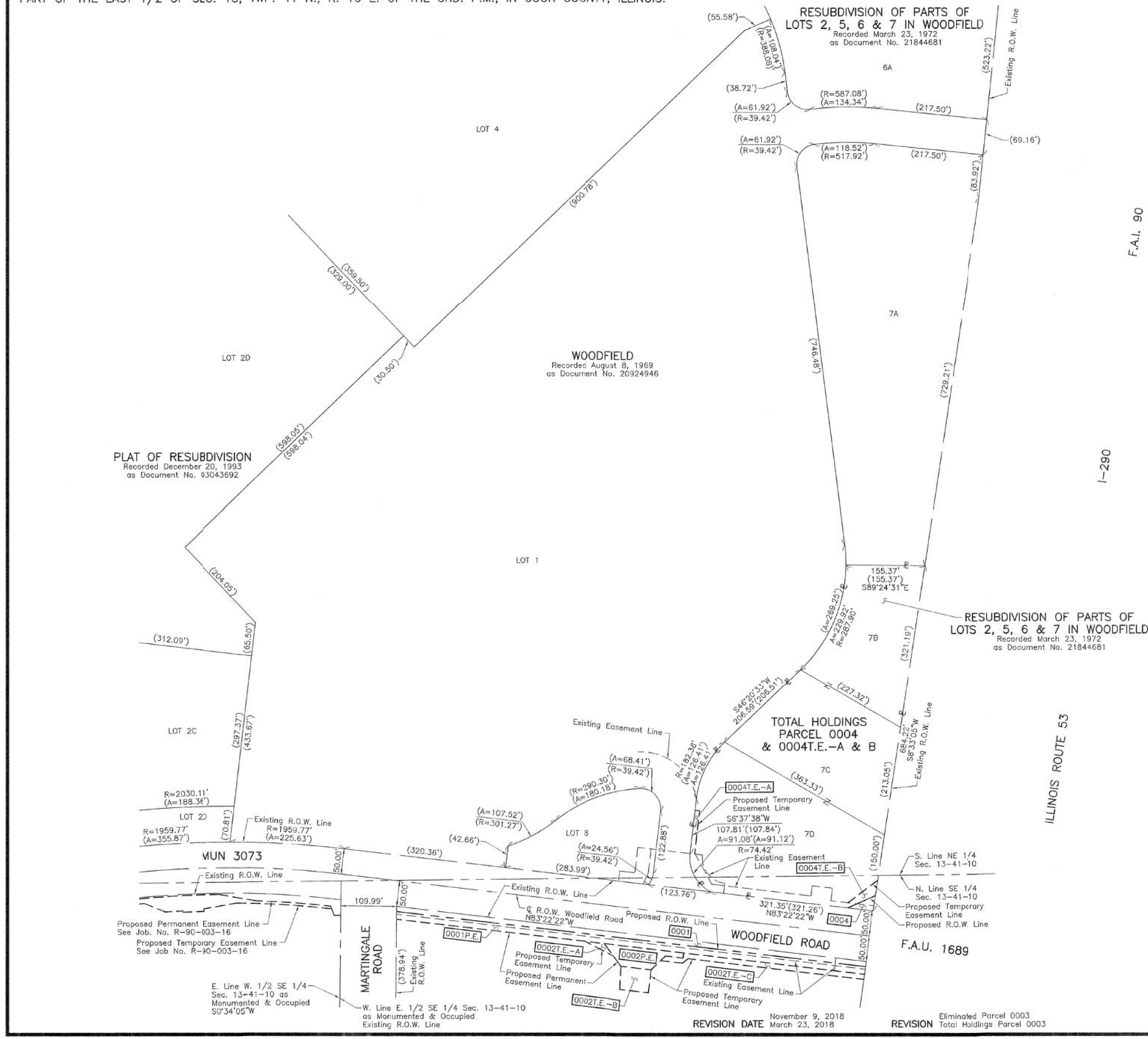
USER NAME = djk	DESIGNED - KDC	REVISED -	
	DRAWN - KDC	REVISED -	
PLOT SCALE = 1.0000 ' / in.	CHECKED - DJK	REVISED -	
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
PLAT OF HIGHWAYS
SHEET 5 OF 7 SHEETS

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	101
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			

PART OF THE EAST 1/2 OF SEC. 13, TWP. 41 N., R. 10 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.



LEGEND

9|10 / 16|15 SECTION CORNER

16 — 15 QUARTER SECTION CORNER

- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL — APPARENT PROPERTY LINE
- EXISTING CENTER LINE
- PROPOSED CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
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- AC — EXISTING ACCESS CONTROL LINE
- AC — PROPOSED ACCESS CONTROL LINE
- 120.32' MEASURED DIMENSION
- 129.32'(Comp.) COMPUTED DIMENSION
- (129.32') RECORD DIMENSION
- EXISTING BUILDING

N

0 100' 200'

SCALE: 1"=100'

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(1986) East Zone at Found Village of Schaumburg GPS Survey Monument, Station 1016 and Found Village of Schaumburg GPS Survey Monument, Station 1017.

- ○ IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- \+ CUT CROSS FOUND OR SET
- ● 5/8" REBAR SET
- ▣ **STAKING OF PROPOSED RIGHT OF WAY.** SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ▣ M **STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.** BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ⊕ PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS } SS
COUNTY OF LAKE }

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 13, TOWNSHIP 41N., RANGE 10E., OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, 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 LAKE VILLA, ILLINOIS THIS 11th DAY OF May 2018 A.D.

Christian H. Jorgensen PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2018

CHRISTIAN H. JORGENSEN 2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS LAKE VILLA, ILLINOIS

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
All dimensions are measured unless otherwise specified.
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To obtain ground distances, divide grid distances shown by the combined factor of 0.99995256.

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MUN 3073/F.A.U. 1689 (WOODFIELD ROAD)
LIMITS: MARTINGALE ROAD TO EAST FRONTAGE ROAD
COUNTY: COOK
SECTION: 14-00114-01-PV JOB NO.: R-90-002-16
STATION NONE TO STATION
SCALE: 1"=100' SHEET 6 OF 7

IDOT USE ONLY

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

REVISION DATE November 9, 2018
March 23, 2018
REVISION Eliminated Parcel 0003
Total Holdings Parcel 0003

FILE NAME = ...\11-PlatsofHighways\Plats.dgn

USER NAME = djk	DESIGNED - KDC	REVISED -
	DRAWN - KDC	REVISED -
PLOT SCALE = 1.0000 ' / in.	CHECKED - DJK	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
PLAT OF HIGHWAYS
SHEET 6 OF 7 SHEETS

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	102
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			

PART OF THE EAST 1/2 OF SEC. 13, TWP. 41 N., R. 10 E. AND PART OF THE WEST 1/2 OF SEC. 18, TWP. 41 N., R. 11 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.

All dimensions are measured unless otherwise specified.
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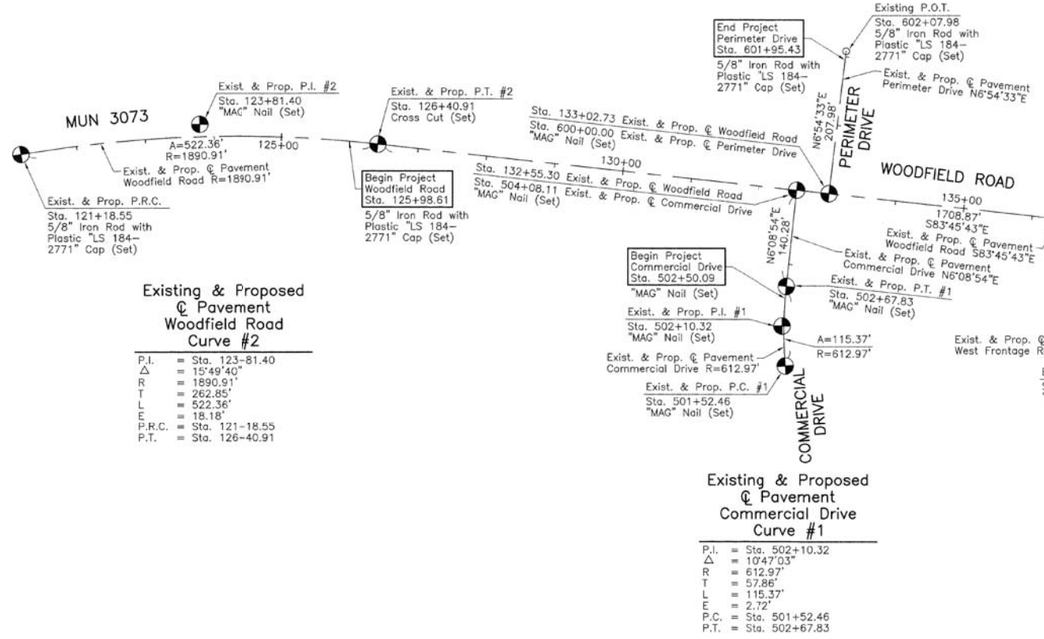
To obtain ground distances, divide grid distances shown by the combined factor of 0.99995256.

PROJECT COORDINATES Illinois Coordinate System NAD 83(1986) East Zone		
STATION	NORTH	EAST
121+18.55	1,958,514.233	1,064,599.430
123+81.40	1,958,558.022	1,064,858.611
125+98.61	1,958,533.586	1,065,077.805
126+40.91	1,958,529.460	1,065,119.909
132+55.30	1,958,462.701	1,065,730.657
133+02.73	1,958,457.547	1,065,777.810
137+89.84	1,958,404.617	1,066,262.035
143+04.29	1,958,348.717	1,066,773.436
143+49.78	1,958,343.774	1,066,818.659
501+52.46	1,958,208.036	1,065,714.112
502+10.32	1,958,265.704	1,065,709.436
502+50.09	1,958,305.558	1,065,713.988
502+67.83	1,958,323.228	1,065,715.633
504+08.11	1,958,462.701	1,065,730.657
600+00.00	1,958,457.547	1,065,777.810

PROJECT COORDINATES Illinois Coordinate System NAD 83(1986) East Zone		
STATION	NORTH	EAST
601+95.43	1,958,651.558	1,065,801.320
602+07.98	1,958,664.013	1,065,802.829
700+49.62	1,958,223.203	1,066,237.793
701+01.02	1,958,274.143	1,066,244.600
702+32.65	1,958,404.617	1,066,262.035
709+06.89	1,959,072.496	1,066,354.422
719+68.19	1,960,123.784	1,066,499.846
799+68.40	1,957,518.710	1,066,701.674
801+22.33	1,957,671.576	1,066,683.606
801+36.91	1,957,686.881	1,066,693.218
802+74.72	1,957,824.259	1,066,703.167
805+01.16	1,958,048.863	1,066,731.942
808+03.87	1,958,348.717	1,066,773.436
810+70.99	1,958,613.364	1,066,809.687
818+62.67	1,959,397.724	1,066,917.126



Existing & Proposed ℄ Pavement Woodfield Road Curve #2

P.I. = Sta. 123+81.40
Δ = 15°49'40"
R = 1890.91'
T = 262.85'
L = 522.36'
E = 18.18'
P.R.C. = Sta. 121+18.55
P.T. = Sta. 126+40.91

Existing & Proposed ℄ Pavement Commercial Drive Curve #1

P.I. = Sta. 502+10.32
Δ = 10°47'03"
R = 612.97'
T = 57.86'
L = 115.37'
E = 2.72'
P.C. = Sta. 501+52.46
P.T. = Sta. 502+67.83

Existing & Proposed ℄ Pavement East Frontage Road Curve #3

P.I. = Sta. 801+22.33
Δ = 14°02'29"
R = 1249.94'
T = 153.93'
L = 306.32'
E = 9.44'
P.C.C. = Sta. 799+68.40
P.T. = Sta. 802+74.72

LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
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- AC — EXISTING ACCESS CONTROL LINE
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- 120.32" MEASURED DIMENSION
- 129.32'(Comp.) (129.32') COMPUTED DIMENSION, RECORD DIMENSION
- EXISTING BUILDING

SCALE: 1"=100'

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(1986) East Zone at Found Village of Schaumburg GPS Survey Monument, Station 1016 and Found Village of Schaumburg GPS Survey Monument, Station 1017.

- ○ IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- \+ CUT CROSS FOUND OR SET
- ● 5/8" REBAR SET
- ■ **STAKING OF PROPOSED RIGHT OF WAY.** SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M **STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.** BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ◓ PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS)
)SS
COUNTY OF LAKE)

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 13, TOWNSHIP 41N., RANGE 10E. AND SECTION 18, TOWNSHIP 41N., RANGE 11E., OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, 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 LAKE VILLA, ILLINOIS THIS 24th DAY OF August 2017 A.D.

CHRISTIAN H. JORGENSEN 2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS LAKE VILLA, ILLINOIS

PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2018
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MUN 3073/F.A.U. 1689 (WOODFIELD ROAD)
LIMITS: MARTINGALE ROAD TO EAST FRONTAGE ROAD
COUNTY: COOK

SECTION: 14-00114-01-PV JOB NO.: R-90-002-16
STATION 121+18.55 TO STATION 143+49.78
STATION 501+52.46 TO STATION 504+08.11
STATION 600+00.00 TO STATION 602+07.98
STATION 700+49.62 TO STATION 719+68.19
STATION 799+68.40 TO STATION 818+62.67
SCALE: 1"=100' SHEET 7 OF 7

IDOT USE ONLY

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

REVISION DATE REVISION

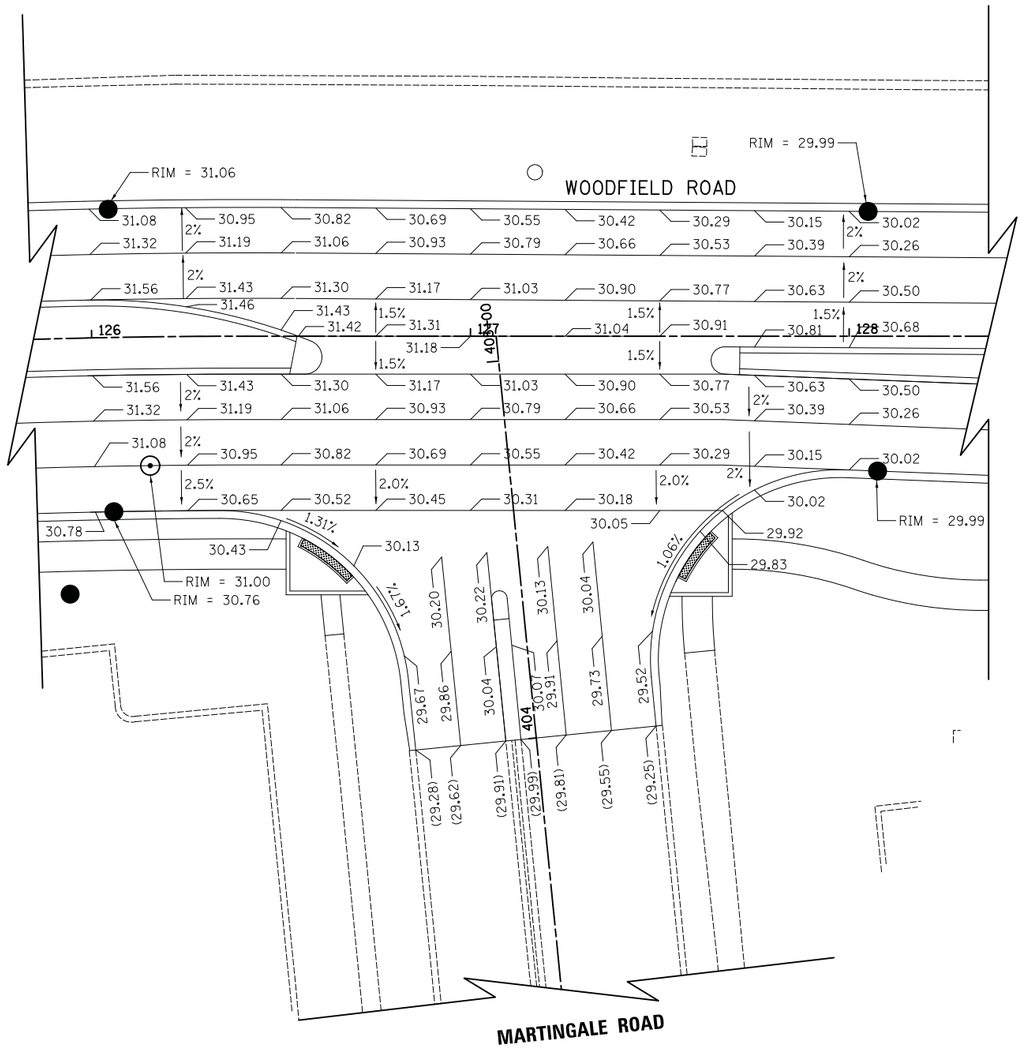
FILE NAME = ...\11-Plats of Highways\Plats.dgn

USER NAME = djk	DESIGNED - KDC	REVISED -
	DRAWN - KDC	REVISED -
PLOT SCALE = 1.0000 ' / in.	CHECKED - DJK	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
PLAT OF HIGHWAYS
SHEET 7 OF 7 SHEETS

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	103
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			



NOTES:
1) ELEVATIONS ARE GIVEN EVERY 25' (TYP).
2) ADD 700' TO ALL ELEVATIONS.

FILE NAME = ...\3073_tgp_01_martingale.dgn

CIVILTECH

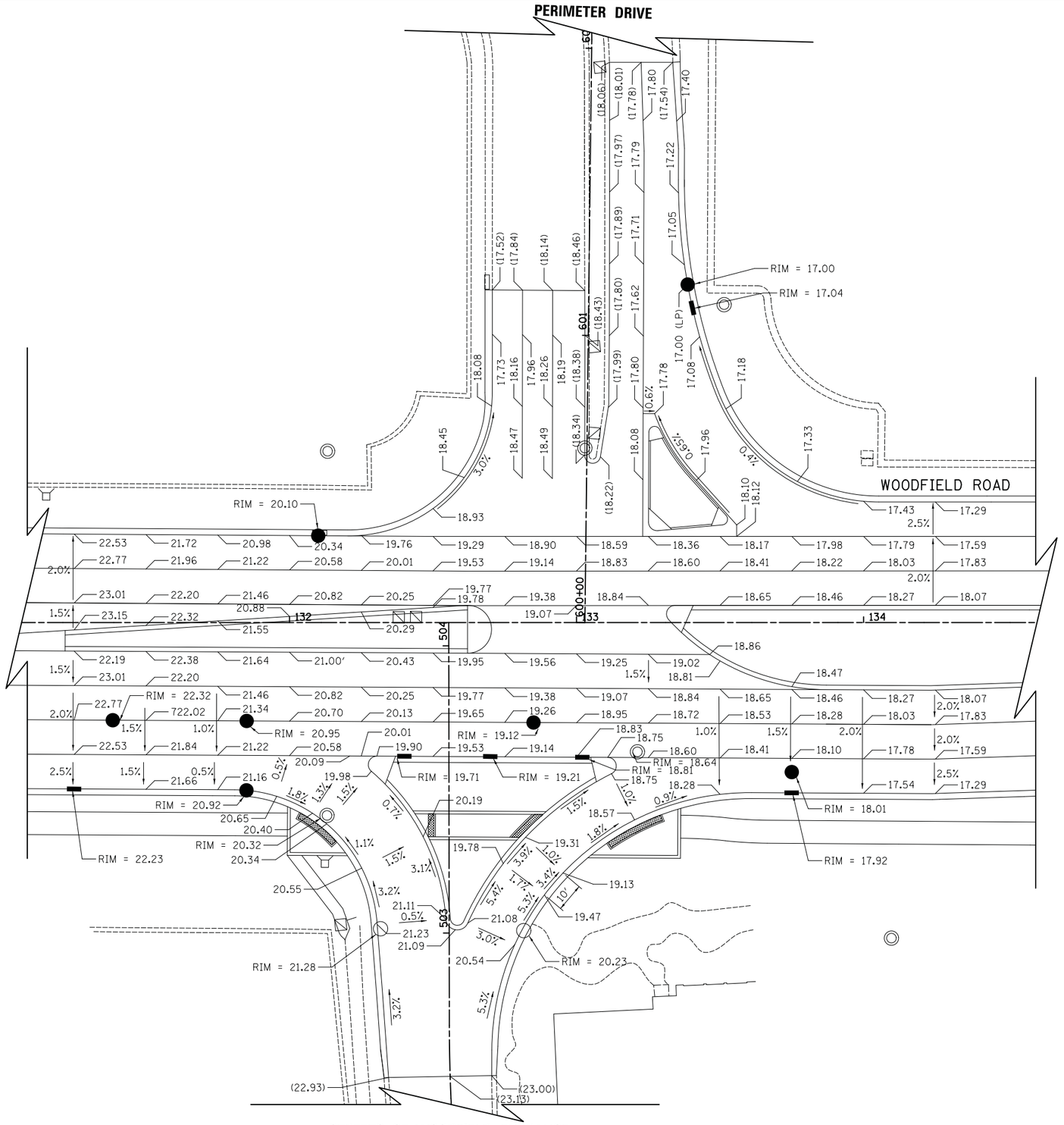
USER NAME = djk	DESIGNED - KDC	REVISED -
	DRAWN - KDC	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - DJK	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
INTERSECTION GRADING PLAN

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	104
		CONTRACT NO. 61F09		
	ILLINOIS	FED. AID PROJECT		



STREETS OF WOODFIELD ENTRANCE

NOTES:
1) ELEVATIONS ARE GIVEN EVERY 25' (TYP).
2) ADD 730' TO ALL ELEVATIONS.

FILE NAME = ...\3074_tgp-02_mall-streets.dgn

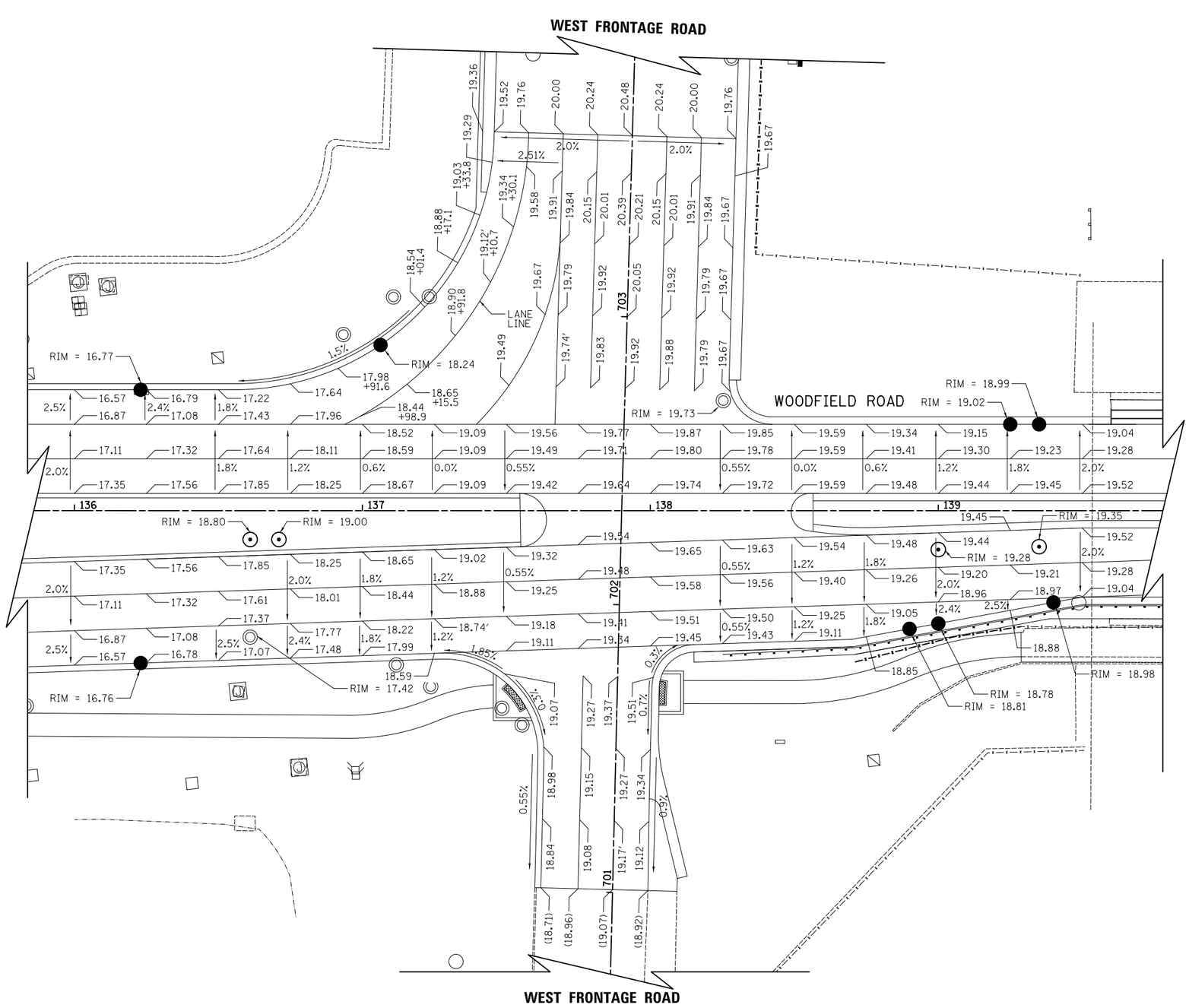
CIVILTECH	USER NAME = djk	DESIGNED - KDC	REVISED -
		DRAWN - KDC	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - DJK	REVISED -
	PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
INTERSECTION GRADING PLAN

SCALE: 1"=20' | SHEET 2 OF 4 SHEETS | STA. | TO STA.

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	105
		CONTRACT NO. 61F09		
		ILLINOIS FED. AID PROJECT		



NOTES:
1) ELEVATIONS ARE GIVEN EVERY 25' (TYP), EXCEPT IN THE WEST FRONTAGE ROAD RIGHT TURN LANE.
2) ADD 730' TO ALL ELEVATIONS.

0 20 40 60
SCALE IN FEET

FILE NAME = ...\3073-tgp-03_west frontage.dgn

CIVILTECH

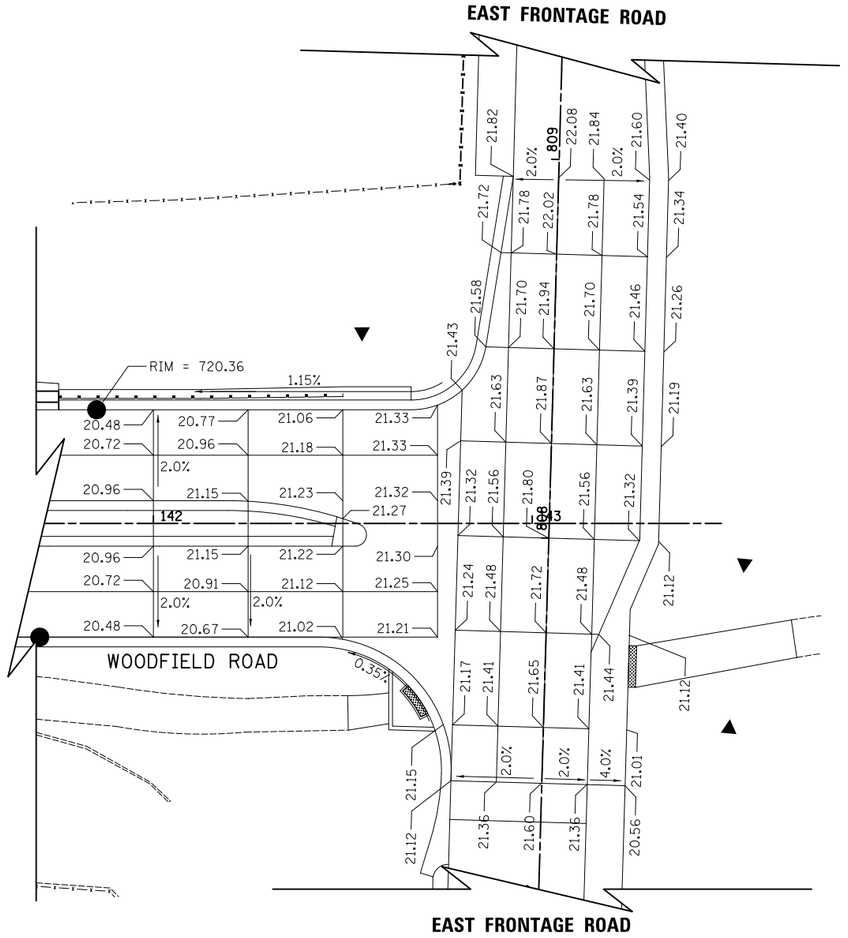
USER NAME = djk	DESIGNED - KDC	REVISED -
	DRAWN - KDC	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - DJK	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
INTERSECTION GRADING PLAN

SCALE: 1"=20' | SHEET 3 OF 4 SHEETS | STA. | TO STA.

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	106
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			



NOTES:
1) ELEVATIONS ARE GIVEN EVERY 25' (TYP).
2) ADD 730' TO ALL ELEVATIONS.

0 20 40 60
SCALE IN FEET

FILE NAME = ...\3874_rgp_84_east frontage.dgn

CIVILTECH

USER NAME = djk	DESIGNED - KDC	REVISED -
	DRAWN - KDC	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - DJK	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
INTERSECTION GRADING PLAN

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	107
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			

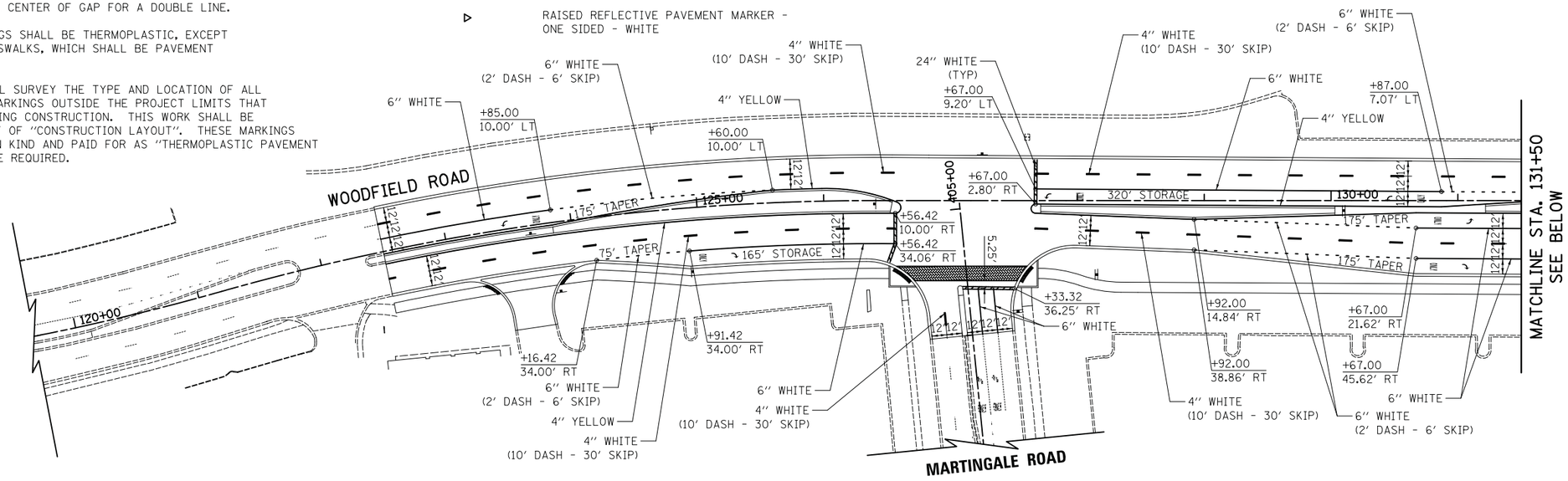
NOTES

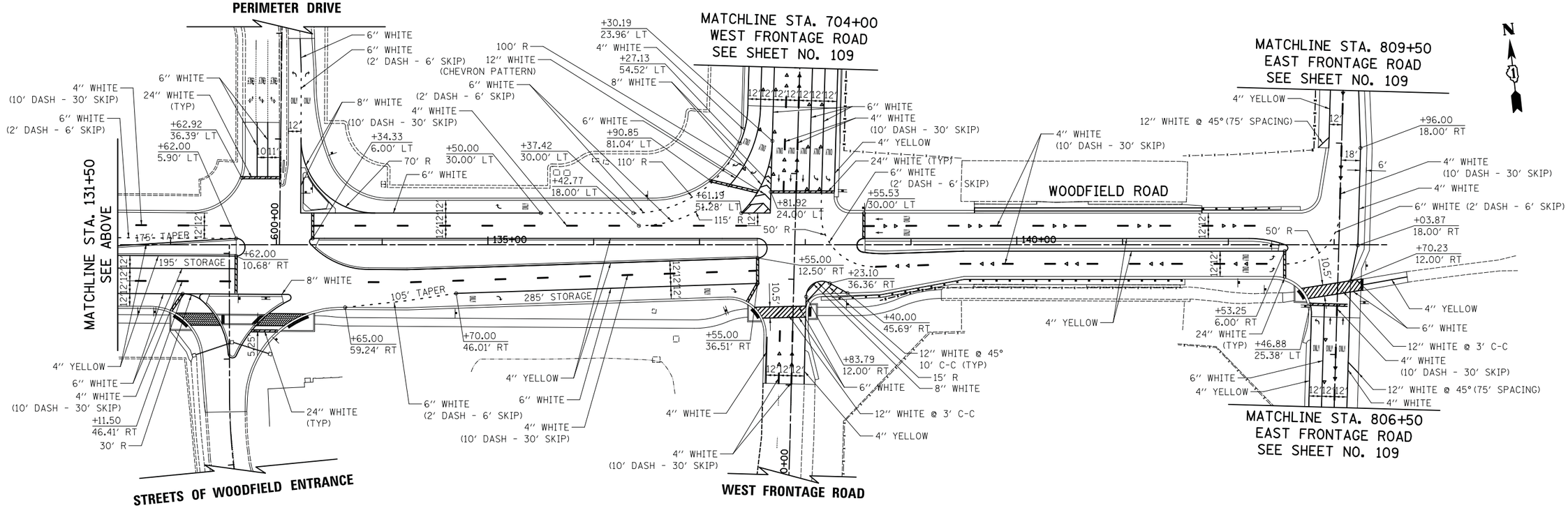
1. DIMENSIONS TO PAVEMENT MARKINGS ARE TO THE CENTER OF A SINGLE LINE OR THE CENTER OF GAP FOR A DOUBLE LINE.
2. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC, EXCEPT THE DECORATIVE CROSSWALKS, WHICH SHALL BE PAVEMENT MARKINGS (SPECIAL).
3. THE CONTRACTOR SHALL SURVEY THE TYPE AND LOCATION OF ALL EXISTING PAVEMENT MARKINGS OUTSIDE THE PROJECT LIMITS THAT WILL BE REMOVED DURING CONSTRUCTION. THIS WORK SHALL BE INCLUDED IN THE COST OF "CONSTRUCTION LAYOUT". THESE MARKINGS SHALL BE REPLACED IN KIND AND PAID FOR AS "THERMOPLASTIC PAVEMENT MARKING" OF THE TYPE REQUIRED.

LEGEND

DECORATIVE CROSSWALK - SEE DETAIL NEXT SHEET

RAISED REFLECTIVE PAVEMENT MARKER - ONE SIDED - WHITE





0 50 100 150
SCALE IN FEET

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		DRAWN - KDC	REVISED -
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	PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
PROPOSED STRIPING PLAN

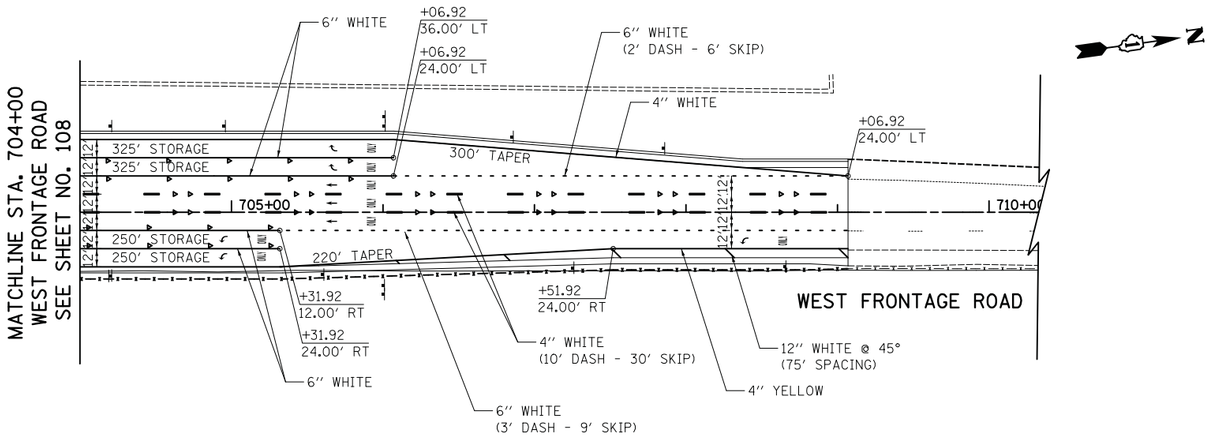
SCALE: 1"=50' | SHEET 1 OF 2 SHEETS

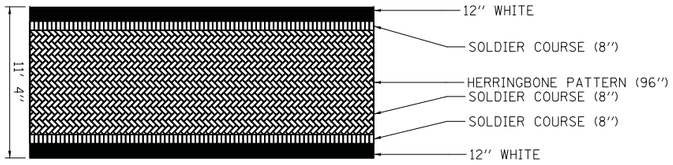
MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	108
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			

LEGEND

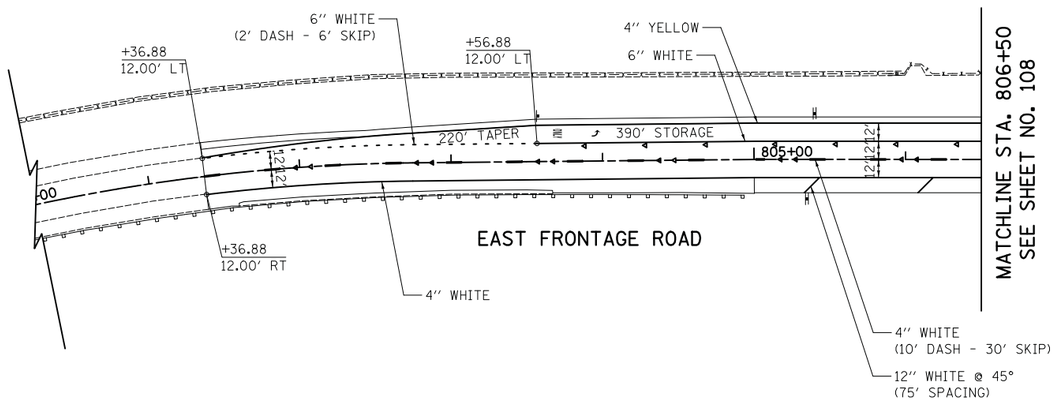
DECORATIVE CROSSWALK - SEE DETAIL BELOW

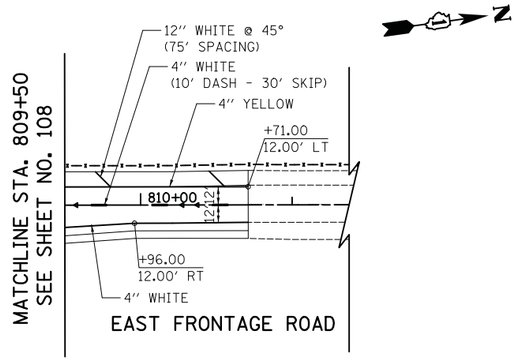
RAISED REFLECTIVE PAVEMENT MARKER - ONE SIDED - WHITE





DECORATIVE CROSSWALK DETAIL





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SCALE IN FEET

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CIVILTECH	USER NAME = djk	DESIGNED - KDC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD PROPOSED STRIPING PLAN
		DRAWN - KDC	REVISED -		
	PLOT SCALE = 50.0000 ' / in.	CHECKED - DJK	REVISED -		SCALE: 1"=50' SHEET 2 OF 2 SHEETS
	PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -		

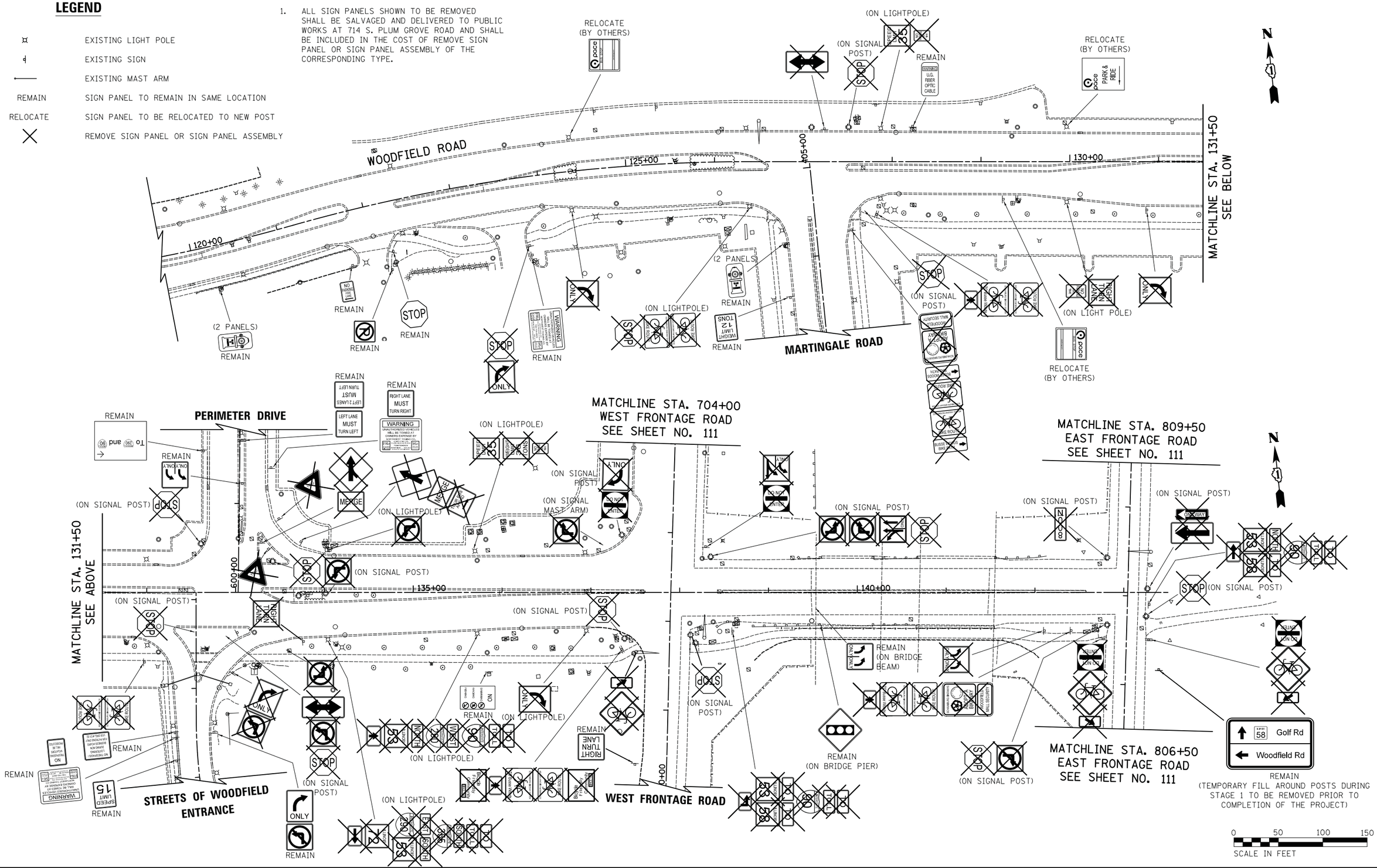
MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/	14-00114-01-PV	COOK	282	109
1689		CONTRACT NO. 61F09		
		ILLINOIS	FED. AID PROJECT	

LEGEND

⌑	EXISTING LIGHT POLE
⊣	EXISTING SIGN
———	EXISTING MAST ARM
REMAIN	SIGN PANEL TO REMAIN IN SAME LOCATION
RELOCATE	SIGN PANEL TO BE RELOCATED TO NEW POST
X	REMOVE SIGN PANEL OR SIGN PANEL ASSEMBLY

NOTES

1. ALL SIGN PANELS SHOWN TO BE REMOVED SHALL BE SALVAGED AND DELIVERED TO PUBLIC WORKS AT 714 S. PLUM GROVE ROAD AND SHALL BE INCLUDED IN THE COST OF REMOVE SIGN PANEL OR SIGN PANEL ASSEMBLY OF THE CORRESPONDING TYPE.



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CIVILTECH

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	DRAWN - KDC	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED - DJK	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

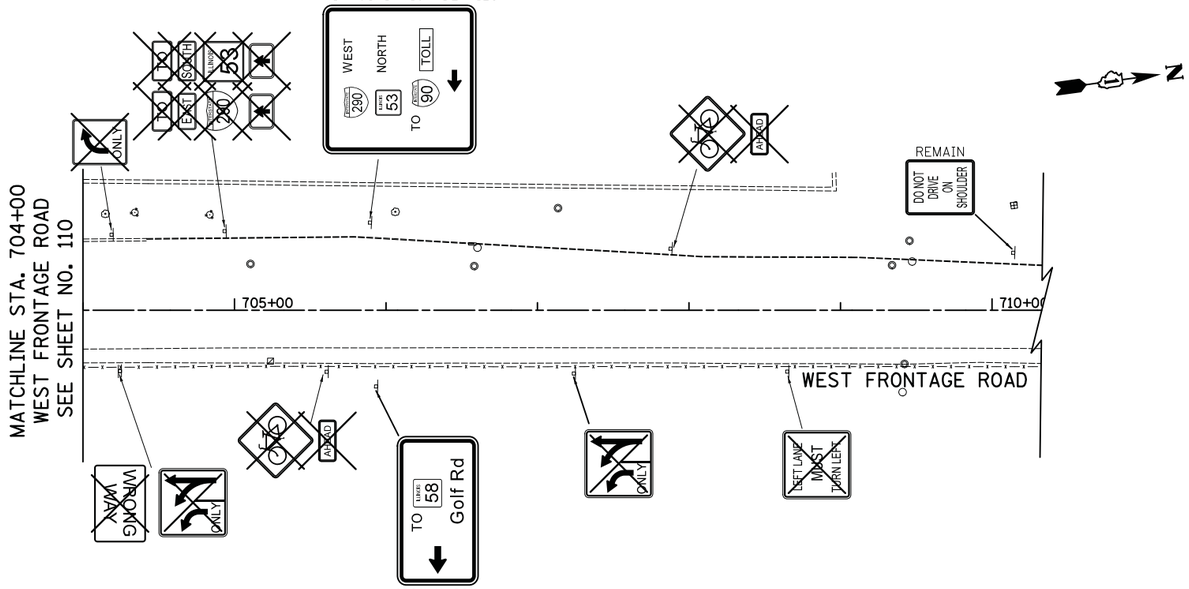
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
EXISTING SIGNING PLAN

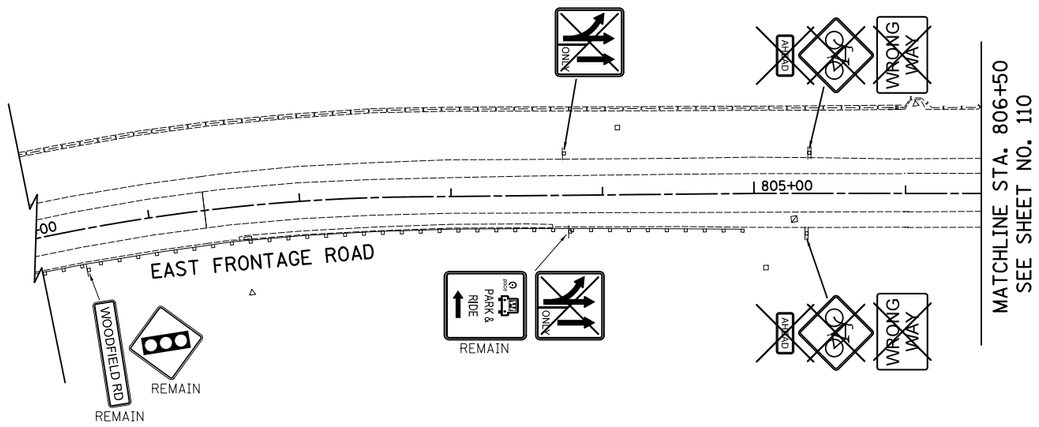
SCALE: 1"=50' | SHEET 1 OF 2 SHEETS

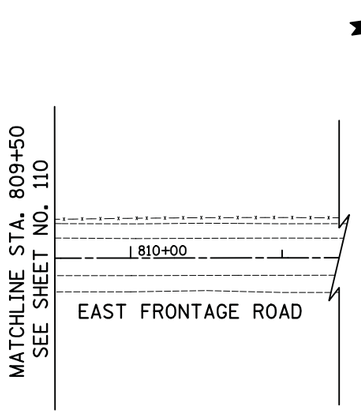
MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	110
		CONTRACT NO. 61F09		
		ILLINOIS FED. AID PROJECT		

132" X 138"
REMOVE AND RELOCATE SIGN PANEL, TYPE 3 TO STA. 705+90
REMOVE GROUND MOUNTED SIGN SUPPORT
REMOVE CONCRETE FOUNDATION - GROUND MOUNT
SEE STANDARD 720006 FOR OFFSET
SEE "BREAK-AWAY WIDE FLANGE STEEL
SIGN POST DETAILS" FOR SIGN SUPPORT
AND FOUNDATION DETAILS



120" X 66"
REMOVE AND RELOCATE SIGN PANEL, TYPE 3 TO STA. 706+00
REMOVE GROUND MOUNTED SIGN SUPPORT
REMOVE CONCRETE FOUNDATION - GROUND MOUNT
SEE STANDARD 720006 FOR OFFSET
SEE "BREAK-AWAY WIDE FLANGE STEEL
SIGN POST DETAILS" FOR SIGN SUPPORT
AND FOUNDATION DETAILS





0 50 100 150
SCALE IN FEET

FILE NAME = ...\3874_sign_ex_02.dgn

CIVILTECH

USER NAME = djk	DESIGNED - KDC	REVISED -
	DRAWN - KDC	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED - DJK	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
EXISTING SIGNING PLAN

SCALE: 1"=50' | SHEET 2 OF 2 SHEETS

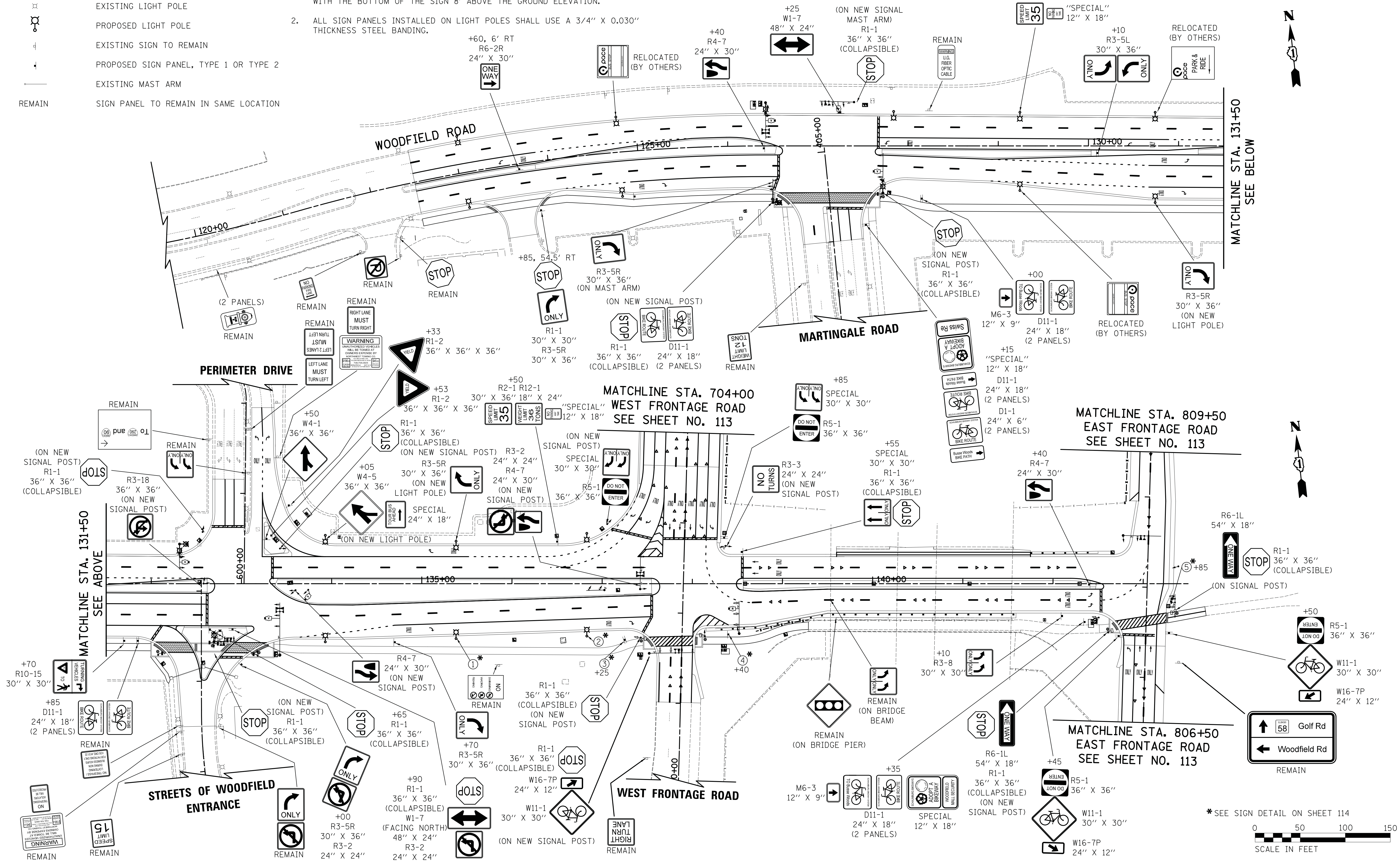
MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	111
		CONTRACT NO. 61F09		
	ILLINOIS	FED. AID PROJECT		

LEGEND

¤	EXISTING LIGHT POLE
¤	PROPOSED LIGHT POLE
⊣	EXISTING SIGN TO REMAIN
⊣	PROPOSED SIGN PANEL, TYPE 1 OR TYPE 2
o—	EXISTING MAST ARM
REMAIN	SIGN PANEL TO REMAIN IN SAME LOCATION

NOTES:

1. SIGNS WITHIN 2′ (MEASURED HORIZONTALLY OF BIKE PATHS) SHALL BE INSTALLED WITH THE BOTTOM OF THE SIGN 8′ ABOVE THE GROUND ELEVATION.
2. ALL SIGN PANELS INSTALLED ON LIGHT POLES SHALL USE A 3/4″ X 0.030″ THICKNESS STEEL BANDING.



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		DRAWN - KDC	REVISED -
	PLOT SCALE = 50.0000 ′ / in.	CHECKED - DJK	REVISED -
	PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
PROPOSED SIGNING PLAN

SCALE: 1″=50′ | SHEET 1 OF 3 SHEETS

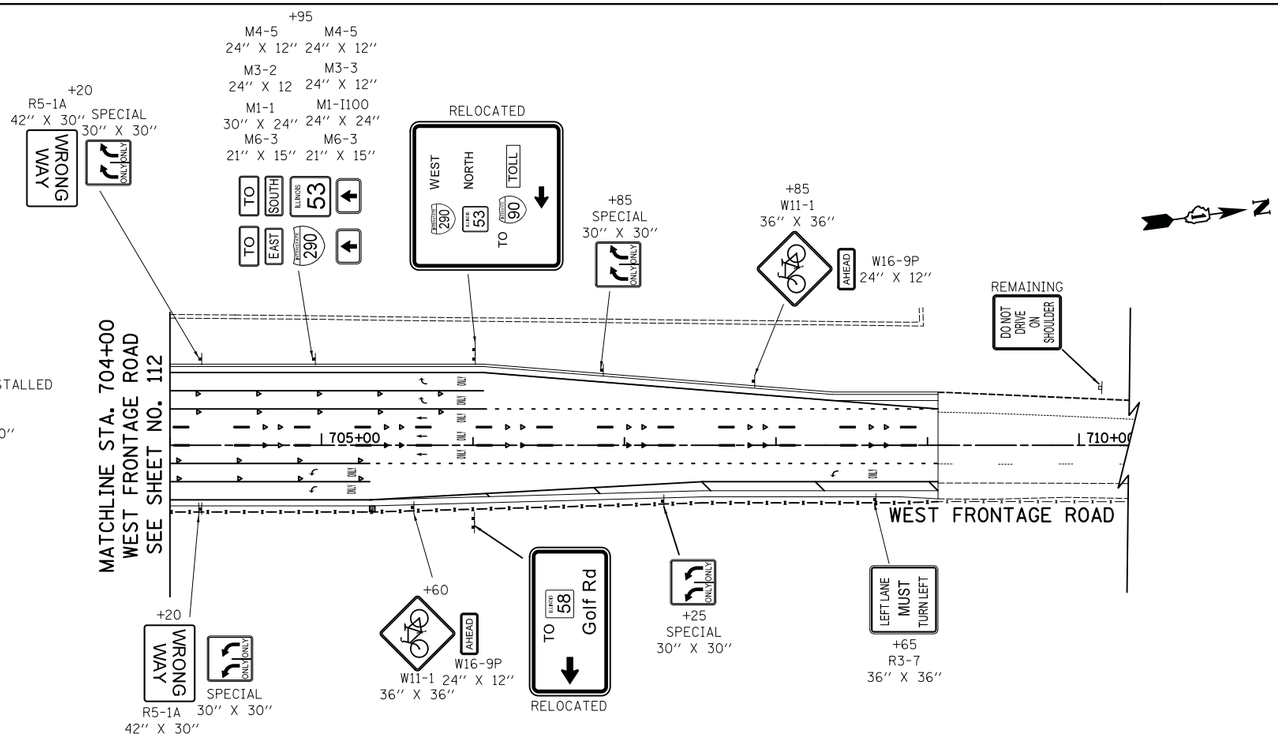
MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	112
		CONTRACT NO. 61F09		
		ILLINOIS FED. AID PROJECT		

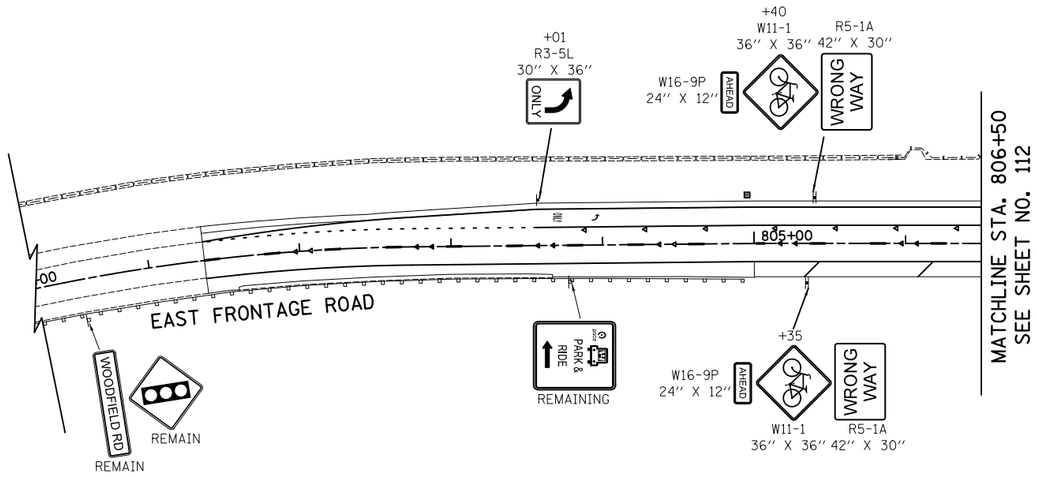
LEGEND

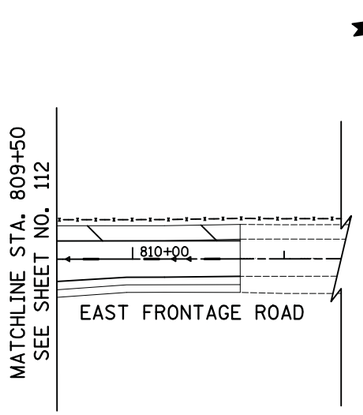
⌑	EXISTING LIGHT POLE
⌑	PROPOSED LIGHT POLE
⊣	EXISTING SIGN TO REMAIN
⊣	PROPOSED SIGN PANEL, TYPE 1 OR TYPE 2
⟵	EXISTING MAST ARM
REMAIN	SIGN PANEL TO REMAIN IN SAME LOCATION

NOTES:

1. SIGNS WITHIN 2' (MEASURED HORIZONTALLY OF BIKE PATHS) SHALL BE INSTALLED WITH THE BOTTOM OF THE SIGN 8' ABOVE THE GROUND ELEVATION.
2. ALL SIGN PANELS INSTALLED ON LIGHT POLES SHALL USE A 3/4" X 0.030" THICKNESS STEEL BANDING.







0 50 100 150
SCALE IN FEET

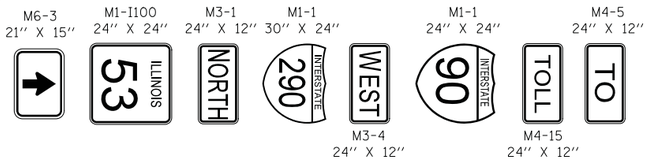
FILE NAME = ...\3874_sign_PR_02.dgn

CIVILTECH	USER NAME = djk	DESIGNED - KDC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD PROPOSED SIGNING PLAN
		DRAWN - KDC	REVISED -		
	PLOT SCALE = 50.0000 ' / in.	CHECKED - DJK	REVISED -		SCALE: 1"=50' SHEET 2 OF 2 SHEETS
	PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -		

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/	14-00114-01-PV	COOK	282	113
1689		CONTRACT NO. 61F09		
		ILLINOIS FED. AID PROJECT		

PROPOSED SIGN DETAILS

①



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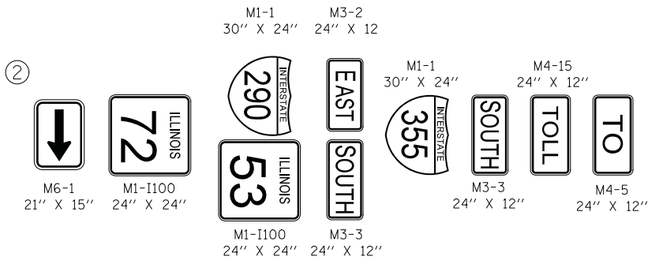

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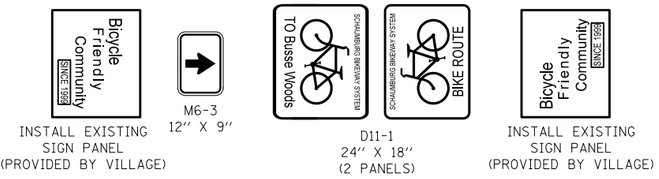

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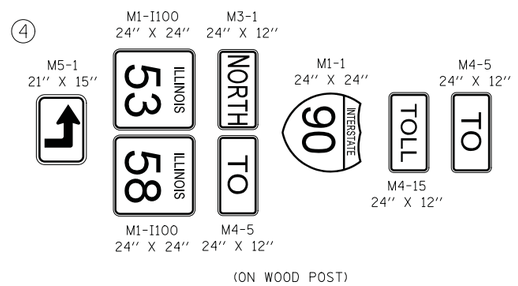
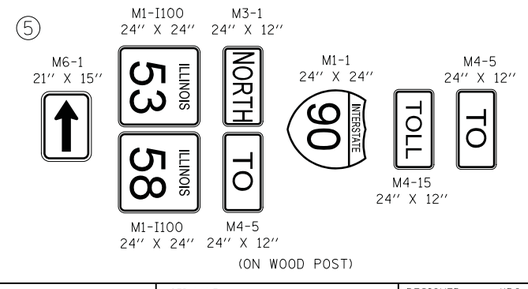
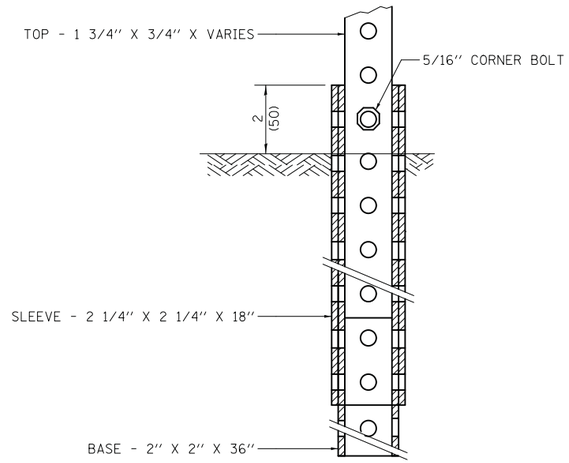


(ON WOOD POST)

⑤



(ON WOOD POST)



TELESCOPING STEEL SIGN SUPPORT (SPECIAL) MOUNT DETAIL

FILE NAME = ...\3074_sign_PR_Details.dgn

CIVILTECH

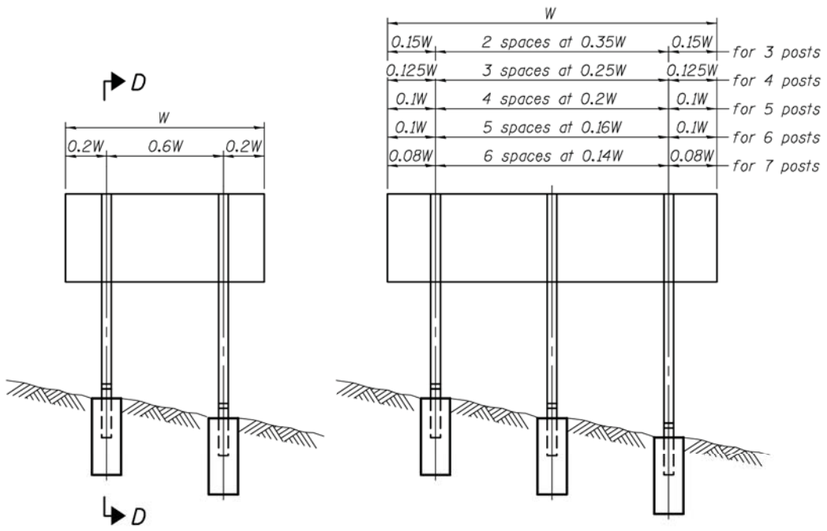
USER NAME = djk	DESIGNED - KDC	REVISED -
	DRAWN - KDC	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED - DJK	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

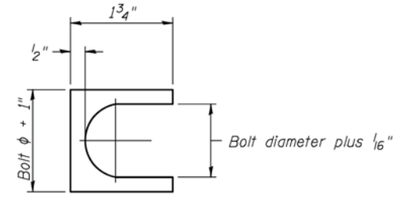
WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
PROPOSED SIGNING PLAN

SCALE: NTS | SHEET 3 OF 3 SHEETS

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	114
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			

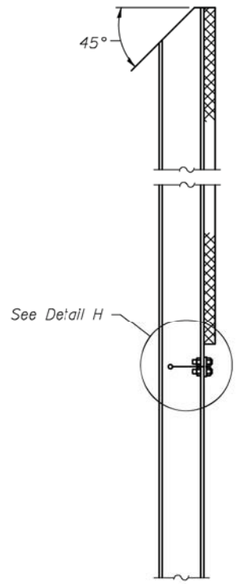


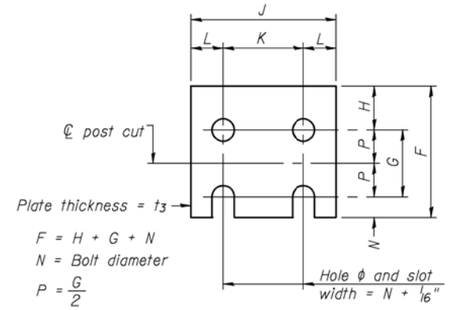
ELEVATION



SHIM DETAIL

Furnish two 0.01" thick and two 0.03" thick stainless steel or brass (ASTM B36) shims per post.

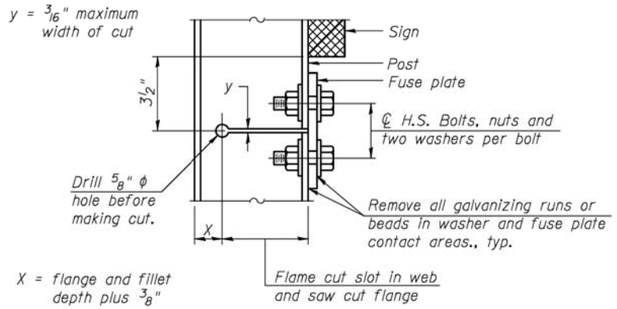




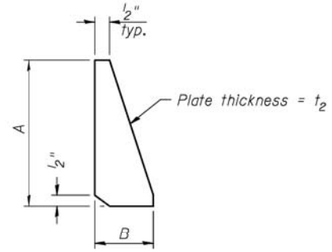
FUSE PLATE DATA		
N = Bolt Diameter	G	H
1/2"	2"	1 1/8"
5/8"	2 1/4"	1 1/4"
3/4"	2 1/2"	1 3/8"
7/8"	2 3/4"	1 1/2"
1"	3"	1 5/8"
1 1/8"	3 1/4"	1 3/4"
1 1/4"	3 1/2"	1 7/8"

FUSE PLATE DETAIL

(Install with notches down.)

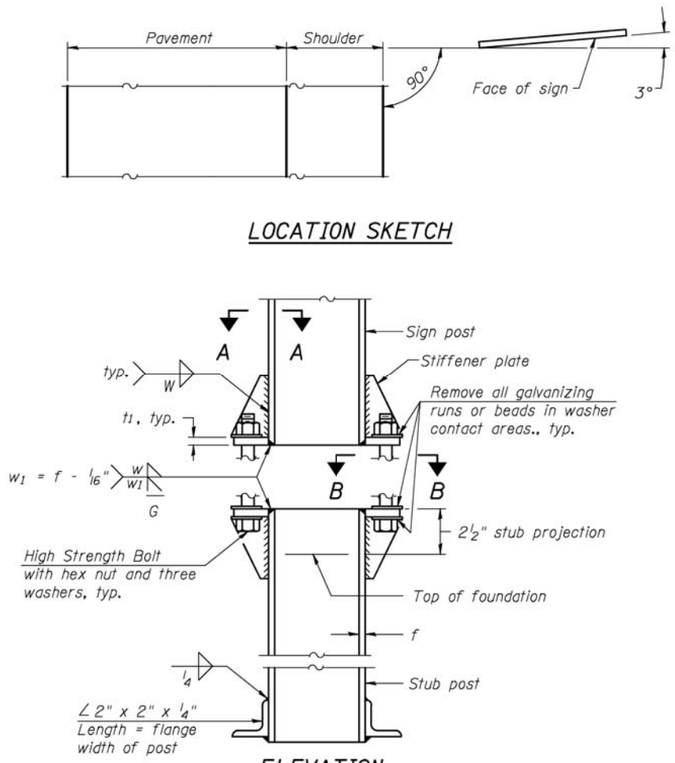


DETAIL H



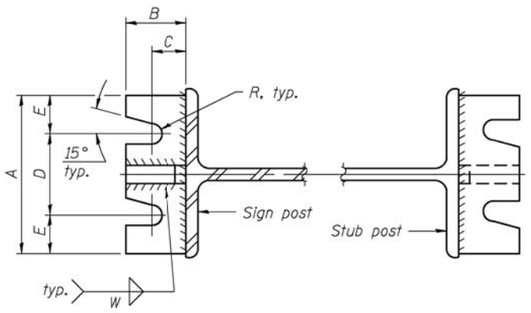
STIFFENER PLATE DETAIL

Diameter



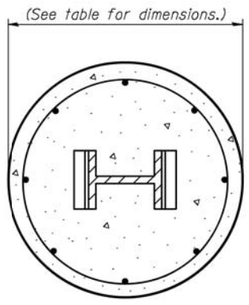
LOCATION SKETCH

ELEVATION
SIGN POST & STUB POST

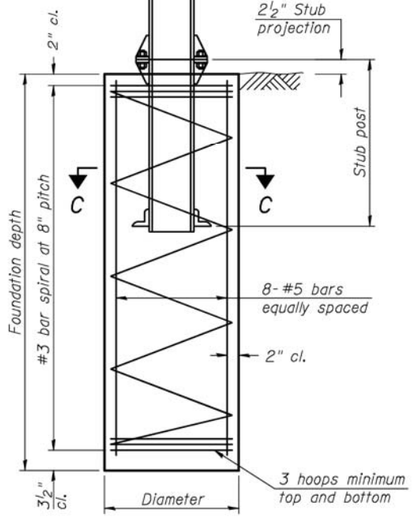


SECTION A-A

SECTION B-B



SECTION C-C



SECTION D-D

GENERAL NOTES

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 727.05 and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign.

DESIGN STRESSES:
Structural steel - 20,000 p.s.i.
Reinforcing steel - 20,000 p.s.i.
Concrete - 1,400 p.s.i.
Footing soil pressure - 2,000 p.s.f.

After fabrication, the post, fuse plate and upper 6", min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M111. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

Work this sheet with Base Sheet BAW-A-2.

BAW-A-1 6-1-12

(Sheet 1 of 2)

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BREAK-AWAY WIDE FLANGE STEEL SIGN POST DETAILS

SHEET NO. 1 OF 2 SHEETS

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/1689	14-00114-01-PV	COOK	282	115
		CONTRACT NO. 61F09		
		ILLINOIS FED. AID PROJECT		

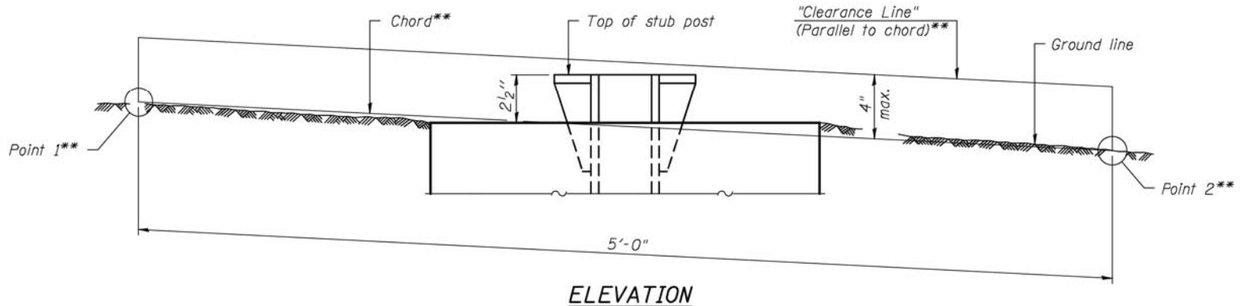
POST	CONCRETE FOUNDATION TABLE							POST TO STUB POST CONNECTION DATA										FUSE PLATE DATA			
	Foundation			Reinforcement				Stub Post													
	Diameter	* Minimum Depth	Concrete (1) cu. yds.)	Vertical Bars Length	Bar Spirals Diameter	Bar Spirals Length	lbs. (2)	Length	Bolt Size	A	B	C	D	E	t_1	t_2	R	W	J	K	L	t_3
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-8½"	79'-0"	78	2'-3"	⅝" x 3¼"	6"	2¼"	1¼"	3½"	1¼"	¾"	½"	11/32"	¼"	4"	2¼"	⅞"	¼"
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-8½"	79'-0"	78	2'-6"	⅝" x 3¼"	6"	2¼"	1¼"	3½"	1¼"	¾"	½"	11/32"	¼"	6"	3½"	1¼"	⅜"
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-8½"	79'-0"	78	2'-6"	¾" x 3¾"	6"	2½"	1⅜"	3¼"	1⅜"	1"	½"	13/32"	5/16"	5¼"	2¾"	1¼"	⅜"
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-2½"	105'-0"	92	3'-0"	¾" x 3¾"	6"	2½"	1⅜"	3¼"	1⅜"	1"	½"	13/32"	5/16"	5¾"	2¾"	1½"	½"
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-2½"	112'-0"	98	3'-0"	⅞" x 4"	7"	2¾"	1½"	4"	1½"	1"	¾"	15/32"	⅜"	5¾"	2¾"	1½"	⅝"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-2½"	119'-0"	107	3'-0"	⅞" x 4"	7"	2¾"	1½"	4"	1½"	1"	¾"	15/32"	⅜"	6½"	3½"	1½"	⅝"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8½"	145'-0"	113	3'-0"	⅞" x 4"	7"	2¾"	1½"	4"	1½"	1"	¾"	15/32"	⅜"	6¾"	3½"	1⅝"	½"
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-8½"	153'-0"	122	3'-6"	1" x 4½"	7½"	3"	1¾"	4"	1¾"	1¼"	¾"	17/32"	⅜"	6¾"	3½"	1⅝"	½"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8½"	162'-0"	130	3'-6"	1" x 4½"	7½"	3"	1¾"	4"	1¾"	1¼"	¾"	17/32"	⅜"	7"	3½"	1¾"	½"

120" X 66" SIGN → W6x9, W6x15

132" X 138" SIGN → W10x22, W10x26, W12x26, W14x30, W14x38, W16x45

*Dimensional changes required for varying site conditions shall be approved by the Engineer.

POST	FUSE PLATE BOLT SIZE — Sign Height																				
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"
W6x9	½" x 1½"	½" x 1½"	½" x 1½"	½" x 1½"	——	——	——	——	——	——	——	——	——	——	——	——	——	——	——	——	——
W6x15	½" x 1¾"	½" x 1¾"	½" x 1¾"	⅝" x 2"	⅝" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	——	——	——	——	——	——	——	——	——	——	——	——
W8x18	½" x 1¾"	½" x 1¾"	½" x 1¾"	½" x 1¾"	⅝" x 2"	⅝" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	——	——	——	——	——	——	——	——	——	——	——
W10x22	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2"	⅝" x 2"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	——	——	——	——	——	——	——	——
W10x26	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	——	——	——	——	——	——	——
W12x26	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	——	——	——	——	——	——
W14x30	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2"	⅝" x 2"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	——	——	——	——	——
W14x38	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	⅞" x 2½"	⅞" x 2½"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"
W16x45	——	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	⅞" x 2½"	⅞" x 2½"	⅞" x 2½"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"



ELEVATION
GROUND LINE & STUB POST

** For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.

(1) Quantity includes all concrete necessary for one foundation.

(2) Includes reinforcement bars and spiral hooping for one foundation.

BAW-A-2 6-1-12

(Sheet 2 of 2)

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BREAK-AWAY WIDE FLANGE STEEL SIGN POST TABLES

SHEET NO. 2 OF 2 SHEETS

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/1689	14-00114-01-PV	COOK	282	116
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			

KEY	LATIN NAME	COMMON NAME	MEDIAN NUMBER 4	5A	5B	6	SE MARTINGALE	STREETS OF WOODFIELD		TOTAL QUANTITY	SIZE	APPROXIMATE SPACING
Perennials, 3" Pot												
EF	Euonymus x fortunei	Purpleleaf Wintercreeper Euonymus				610				610	3" POT	12" OC
									Total	610		
									Perennial Plants Ornamental Type, 3" Pot	6.1		
Perennials and Grasses, Gallon Pot												
AA	Allium angulosum 'Millenium'	Millenium Allium		36	32					68	1 GAL	18" OC
AB	Asclepias tuberosa	Butterfly Weed		14	19					33	1 GAL	24" OC
AM	Achillea millefolium 'Moonshine'	Moonshine Yarrow	62	26	22					110	1 GAL	18" OC
AS	Achillea millefollum 'Strawberry Seductlon'	Strawberry Seduction Yarrow		15	9					24	1 GAL	18" OC
AT	Amsonia tabernaemontana 'Blue Ice"	Amsonia 'Blue Ice'				27				27	1 GAL	16" OC
AW	Symphyotrichum oblongifolium 'October Skies'	Aromatic Aster	27							27	1 GAL	24" OC
BP	Baptisia x Hybrid 'Purple Smoke'	Purple Smoke Baptisia	34		20	26				80	1 GAL	24" OC
CB	Carex bricknellii	Copper-shouldered Oval Sedge				52				52	1 GAL	16" OC
CV	Coreopsis verticillata 'Golden Showers'	Golden Showers Correopsis		20	30					50	1 GAL	16" OC
DG	Dianthus gratianopolitanus 'Flrewltch'	Flrewltch Cheddar Plnks				45				45	1 GAL	14" OC
EC	Echinacea 'Magnus Purple'	Magnus Purple Coneflower						13		13	1 GAL	18" OC
EP	Echinacea 'Pixie Meadowbrite'	Pixie Meadowbrite Coneflower	20							20	1 GAL	18" OC
FC	Festuca x 'Cool as Ice'	Cool as Ice Fescue		28						28	1 GAL	14" OC
GJ	Geranium x Johnson's Blue	Johnson's Blue Geranium	100							100	1 GAL	18" OC
HC	Hemerocallis x Hybrid 'Chicago Apache'	Chicago Apache Daylily				54				54	1 GAL	18" OC
HH	Hemerocallis x Hybrid 'Happy Returns'	Happy Returns Daylily	70					21		91	1 GAL	18" OC
LK	Liatris spicata 'Kobold'	Kobold Gayfeather				14				14	1 GAL	16" OC
LS	Liatris spicata alba	White Blazing Star				14				14	1 GAL	16" OC
PA	Perovskia atriplicifolia 'Little Spire'	Little Spire Russian Sage		28	34	22				84	1 GAL	24" OC
RF	Rubeckia fulgida 'Goldstrum'	Goldstrum Blackeyed Susan						16		16	1 GAL	18" OC
SS	Sedum spectabile 'Neon'	Neon Sedum				39				39	1 GAL	18" OC
SH	Sporobolus heterolepis	Prairie Dropseed	42					6		48	1 GAL	14" OC
									Total	1037		
									Perennial Plants Ornamental Type, Gallon Pot	10.4		
Perennials and Grasses, 3-Gallon Pot												
CA	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass		12						12	3 GAL	40" OC
PV	Panicum virgatum 'Northwind'	Switchgrass	12	2	12					26	3 GAL	40" OC
									Total	38		
									Perennial Plants Ornamental Type, 3-Gallon Pot	0.4		
Shrubs												
HA	Hydrangea arborescens 'Annabelle'	Annabelle Hydrangea			3			13		16	2' HEIGHT	
RP	Rosa rugosa 'Purple Pavement'	Purple Pavement Rose	10							10	24" HEIGHT	
YF	Yucca fillmentosa 'Adam's Needle'	Adam's Needle Yucca				12				12	1.5' HEIGHT	
RR	Rosa 'Radtkopink'	Pink Double Knock Out Rose						23		23	18" HEIGHT	
VP	Viburnum lentago	Nannyberry Viburnam					5			5	4' HEIGHT	
RA	Ribes alpinum 'Green Mound'	Green Mound Alpine Currant				13				13	18" WIDTH	
Median Trees												
GP	Ginkgo biloba 'Princeton Sentry'	Princeton Sentry Ginkgo				4				4	2.5 " BB	
MS	Malus Sargentii	Dwarf Sargent Crabapple				4				4	2 " BB	
SR	Syringa reticulata 'Ivory Silk'	Ivory Silk Japanese Tree Lilac	4							4	2.5 " BB	
Parkway Trees												
AF	Acer x freemanii 'Autumn Blaze'	Autumn Blaze Maple	3							3	2.5 " BB	
CIS	Crataegus crusgalli var. inermis	Thornless Cockspur Hawthorn	1							1	2.5 " BB	
CO	Celtis occidentalis	Hackberry	2							2	2.5 " BB	
GD	Gymnocladus dioica	Kentucky Coffeetree	2							2	2.5 " BB	
UJ	Ulmus Americana 'Princeton'	Princeton Elm	3							3	2.5 " BB	

SCHEDULE OF TREES TO REMAIN

LOCATION	TREE SIZE (INCH)	VILLAGE TEMPORARY FENCE (FOOT)	IDOT TEMPORARY FENCE (FOOT)	VILLAGE TREE ROOT PRUNING (EACH)	IDOT TREE ROOT PRUNING (EACH)	VILLAGE TREE PRUNING (1 TO 10 INCH DIAMETER) (EACH)	IDOT TREE PRUNING (1 TO 10 INCH DIAMETER) (EACH)	VILLAGE TREE PRUNING (OVER 10 INCH DIAMETER) (EACH)	IDOT TREE PRUNING (OVER 10 INCH DIAMETER) (EACH)
		20101000		20101200		20101300		20101350	
STA. 122+60.75 LT	5	40		1		1			
STA. 122+60.75 LT	5	40		1		1			
STA. 124+87.42 RT	14	40		1				1	
STA. 125+28.65 RT	16	40		1				1	
STA. 125+79.67 LT	13	40		1				1	
STA. 127+94.50 LT	5	40		1		1			
STA. 128+56.59 LT	6	40		1		1			
STA. 128+56.59 LT	7	40		1		1			
STA. 128+56.59 LT	11	40		1				1	
STA. 128+80.10 LT	3	40		1		1			
STA. 128+80.10 LT	4	40		1		1			
STA. 129+12.91 LT	6	40		1		1			
STA. 129+12.91 LT	6	40		1		1			
STA. 129+12.91 LT	12	40		1				1	
STA. 129+59.33 LT	7	40		1		1			
STA. 129+90.06 LT	5	40		1		1			
STA. 130+19.96 LT	4	40		1		1			
STA. 130+50.05 LT	4	40		1		1			
STA. 130+79.13 LT	7	40		1		1			
STA. 131+07.83 LT	6	40		1		1			
STA. 131+35.36 LT	7	40		1		1			
STA. 131+64.09 LT	7	40		1		1			
STA. 132+65.46 LT	10	40		1		1			
STA. 132+65.97 LT	5	40		1		1			
STA. 132+84.48 RT	3	40		1		1			
STA. 133+09.16 RT	10	40		1		1			
STA. 133+16.90 RT	9	40		1		1			
STA. 133+18.08 RT	8	40		1		1			
STA. 133+31.19 RT	11	40		1				1	
STA. 133+39.65 LT	4	40		1		1			
STA. 133+69.09 RT	7	40		1		1			
STA. 133+88.22 RT	5	40		1		1			
STA. 133+88.22 RT	4	40		1		1			
STA. 133+88.22 RT	4	40		1		1			
STA. 133+88.22 RT	4	40		1		1			
STA. 134+16.84 LT	3	40		1		1			
STA. 134+40.74 LT	10	40		1		1			
STA. 134+65.96 LT	8	40		1		1			
STA. 134+90.90 LT	7	40		1		1			
STA. 135+16.28 LT	8	40		1		1			
STA. 135+88.53 LT	8	40		1		1			
STA. 135+97.38 LT	14	40		1				1	
STA. 136+77.48 LT	18	40		1				1	
STA. 137+08.68 LT	18		40		1				1
STA. 137+21.97 LT	7		40		1		1		
STA. 137+28.89 LT	13		40		1				1
STA. 704+03.96 LT	3		40		1		1		
STA. 704+19.78 LT	4		40		1		1		
STA. 704+19.78 LT	4		40		1		1		
STA. 704+19.78 LT	4		40		1		1		
STA. 704+96.66 LT	6		40		1		1		
STA. 705+09.18 LT	10		40		1		1		
STA. 705+43.93 LT	6		40		1		1		
STA. 705+50.24 LT	12		40		1				1
STA. 705+82.37 LT	16		40		1				1
STA. 706+36.89 LT	10		40		1		1		
STA. 706+61.35 LT	10		40		1		1		
STA. 706+80.12 LT	15		40		1				1
STA. 706+92.37 LT	10		40		1		1		
STA. 707+28.19 LT	10		40		1		1		
STA. 707+55.85 LT	4		40		1		1		
STA. 707+79.25 LT	11		40		1				1
STA. 708+01.27 LT	5		40		1		1		
STA. 708+17.02 LT	3		40		1		1		
STA. 708+35.43 LT	4		40		1		1		
STA. 709+08.72 LT	9		40		1		1		
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
LANDSCAPE BILL OF MATERIALS AND DETAILS

SCALE: | SHEET 1 OF 1 SHEETS

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	117
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			

LEGEND

MEDIAN SOIL MIX FURNISH AND PLACE SODDING, SALT TOLERANT

MEDIAN SOIL MIX FURNISH AND PLACE

TOPSOIL (4") - SEE NOTE SODDING, SALT TOLERANT

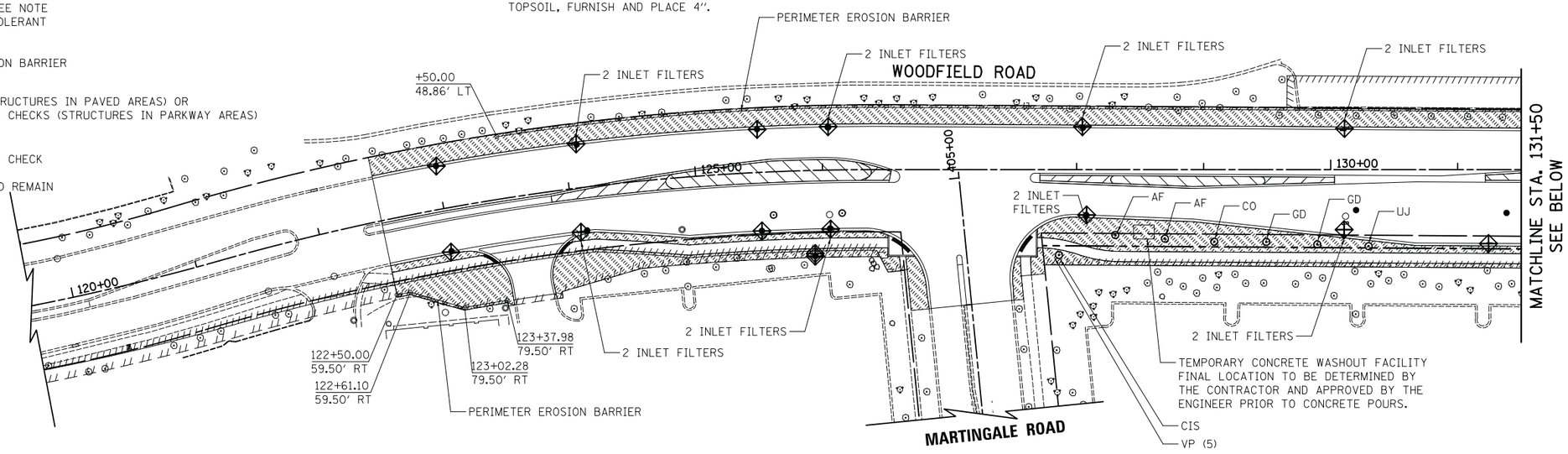
PERIMETER EROSION BARRIER

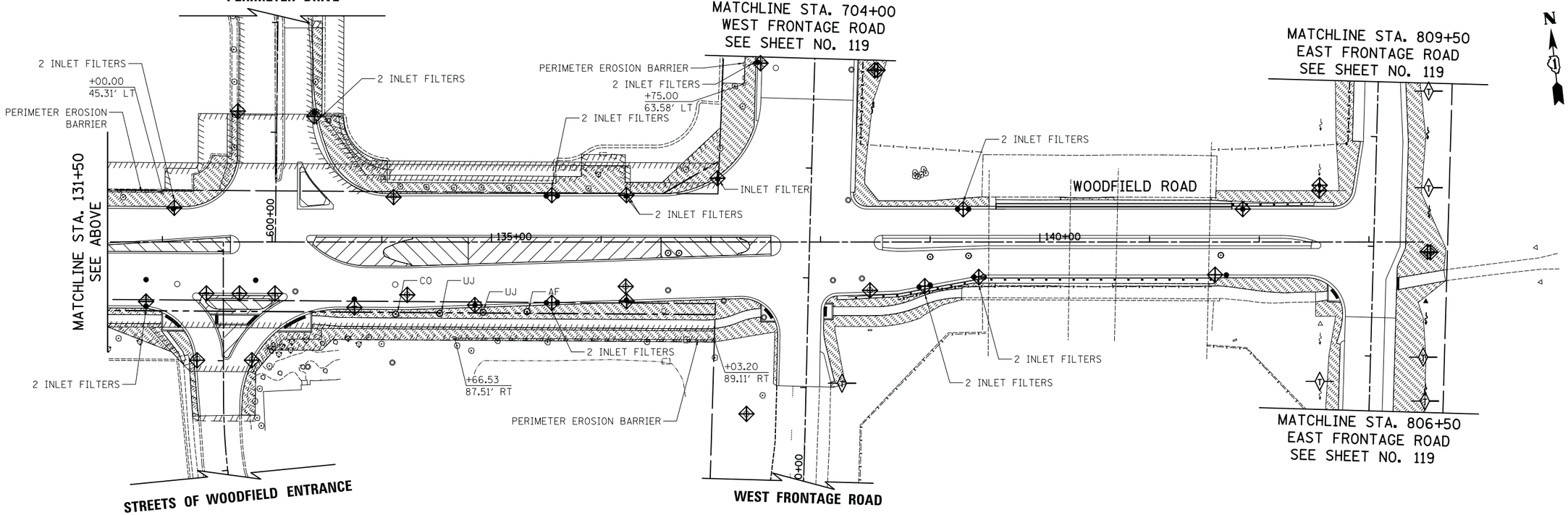
INLET FILTER (STRUCTURES IN PAVED AREAS) OR TEMPORARY DITCH CHECKS (STRUCTURES IN PARKWAY AREAS)

TEMPORARY DITCH CHECK

EXISTING TREE TO REMAIN

NOTE:
TOPSOIL EXCAVATION AND PLACEMENT SHALL BE USED FIRST FOR PLACEMENT OF 4" OF TOPSOIL. IF SUFFICIENT EXISTING TOPSOIL IS NOT AVAILABLE, THE REMAINING AREA SHALL BE COMPLETED USING THE PAY ITEM TOPSOIL, FURNISH AND PLACE 4".





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
LANDSCAPING /EROSION CONTROL PLAN

SCALE: 1"=50' | SHEET 1 OF 2 SHEETS

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	118
		CONTRACT NO. 61F09		
		ILLINOIS FED. AID PROJECT		

LEGEND

MEDIAN SOIL MIX FURNISH AND PLACE
SODDING, SALT TOLERANT

MEDIAN SOIL MIX FURNISH AND PLACE

TOPSOIL (4") - SEE NOTE
SODDING, SALT TOLERANT

PERIMETER EROSION BARRIER

INLET FILTER (STRUCTURES IN PAVED AREAS) OR
TEMPORARY DITCH CHECKS (STRUCTURES IN PARKWAY AREAS)

TEMPORARY DITCH CHECK

EXISTING TREE TO REMAIN

NOTE:
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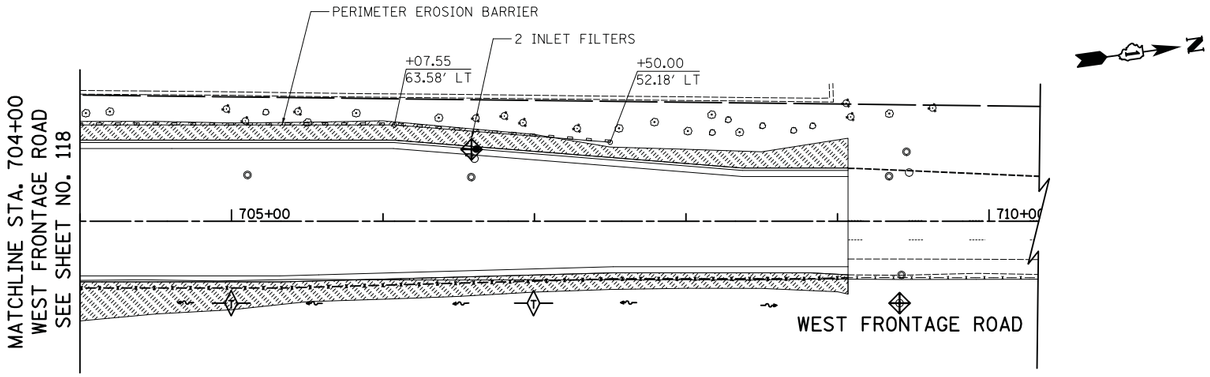

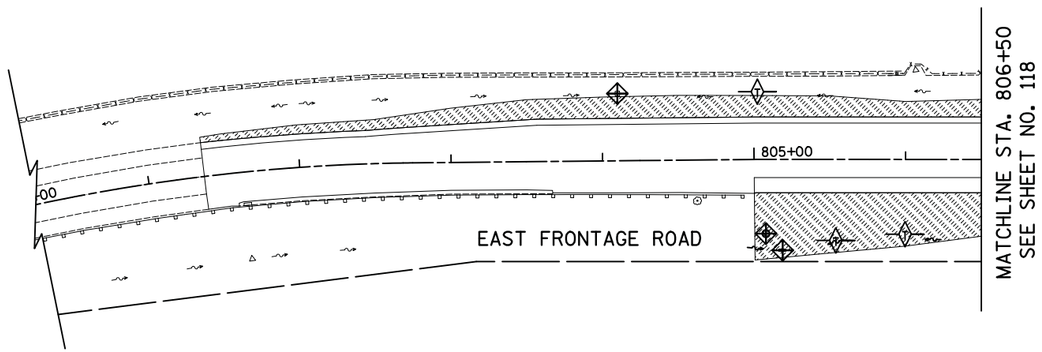

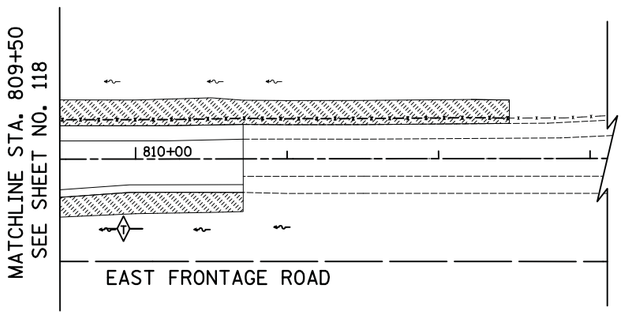

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

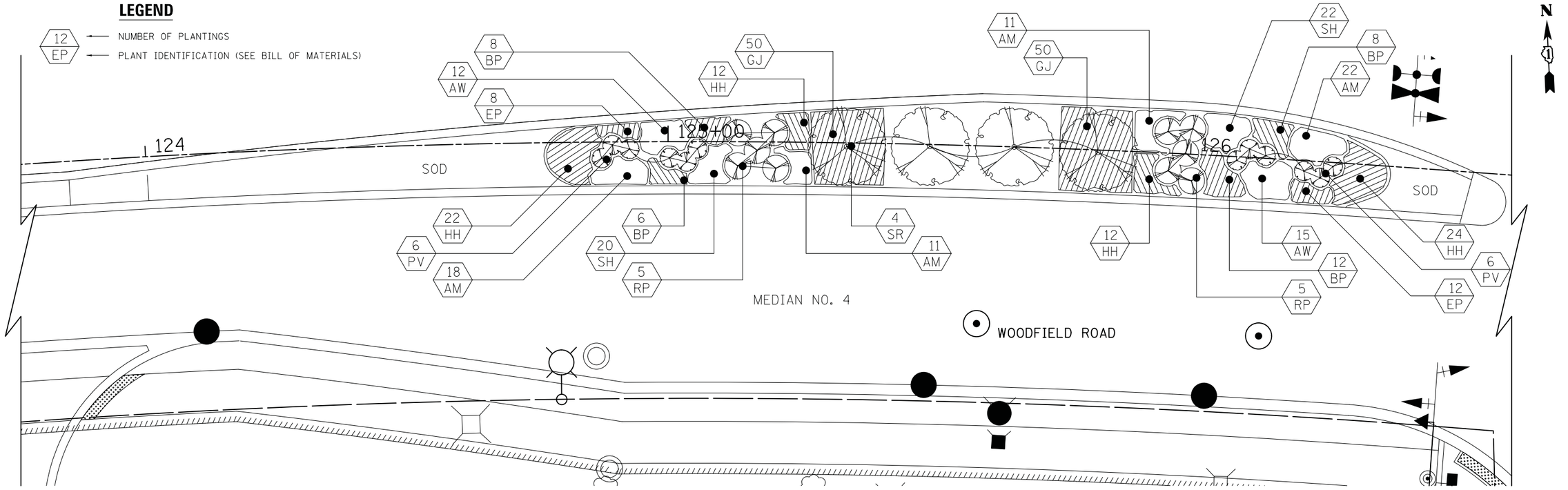
WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
LANDSCAPING /EROSION CONTROL PLAN

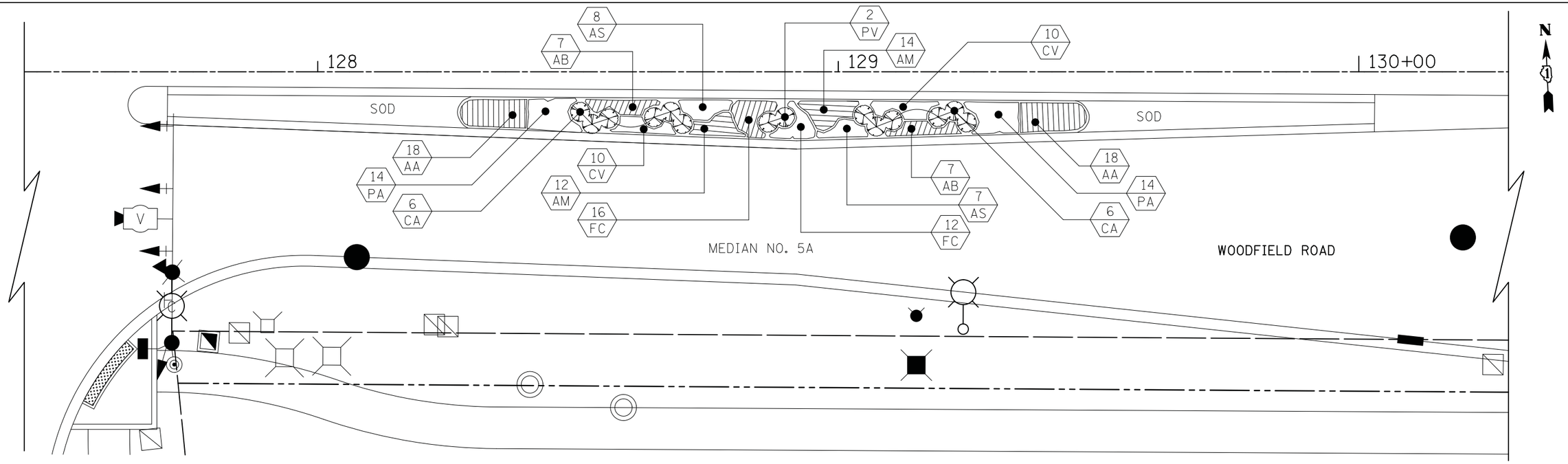
SCALE: 1"=50' | SHEET 2 OF 2 SHEETS

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	119
		CONTRACT NO. 61F09		
	ILLINOIS	FED. AID PROJECT		

LEGEND

12 EP — NUMBER OF PLANTINGS; PLANT IDENTIFICATION (SEE BILL OF MATERIALS)





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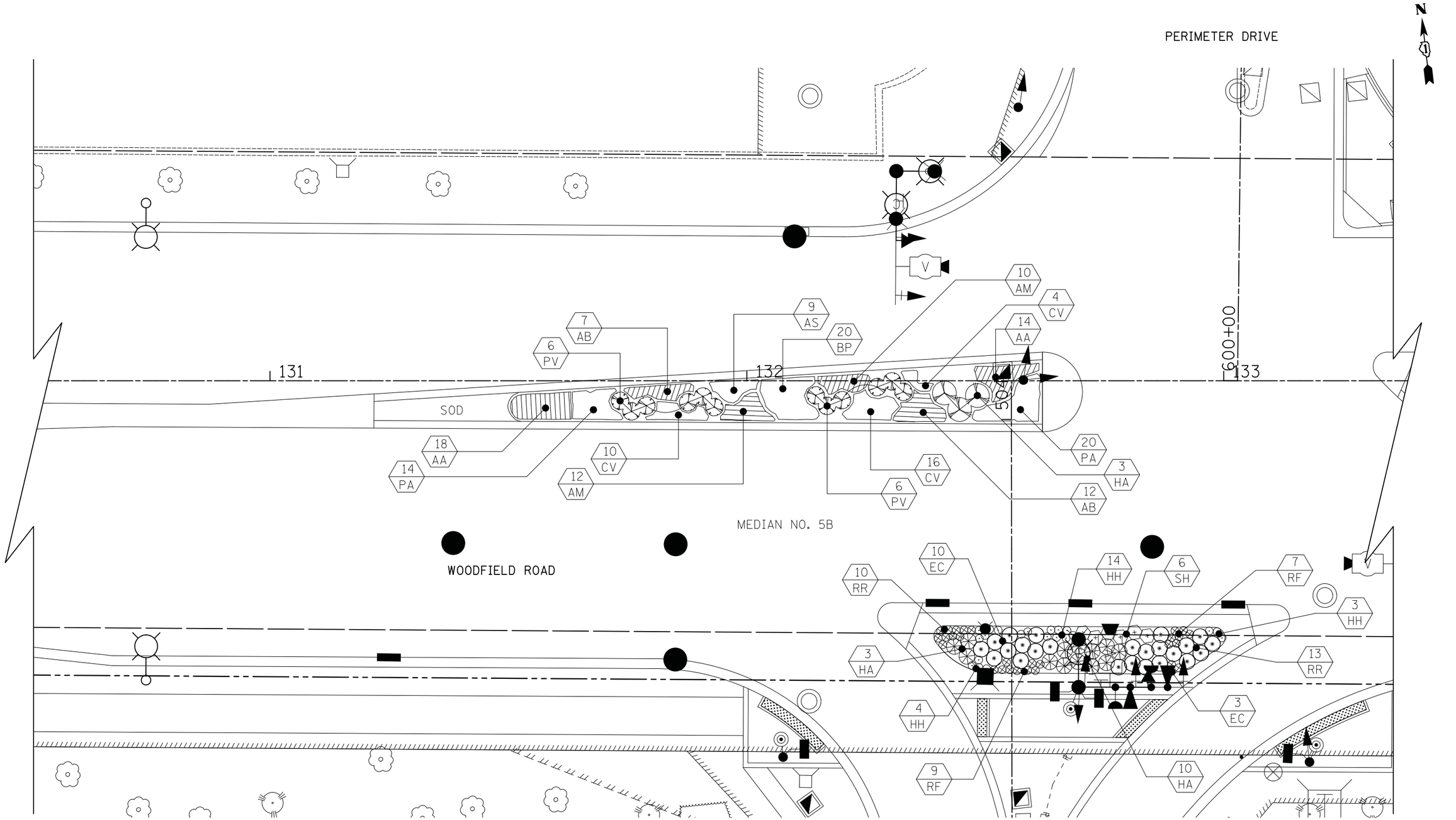
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
PLANTING PLAN

SCALE: 1"=10' | SHEET 1 OF 3 SHEETS

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	120
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			



LEGEND

12 EP — NUMBER OF PLANTINGS; PLANT IDENTIFICATION (SEE BILL OF MATERIALS)

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SCALE IN FEET

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PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

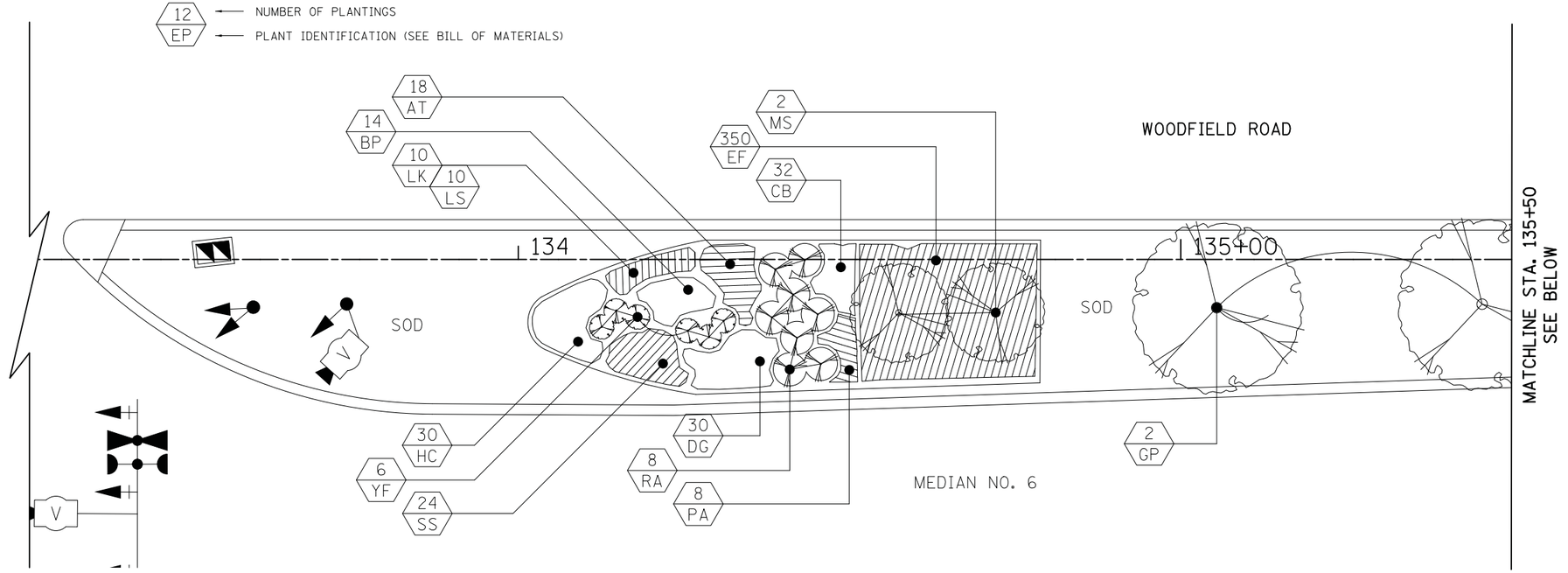
WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
PLANTING PLAN

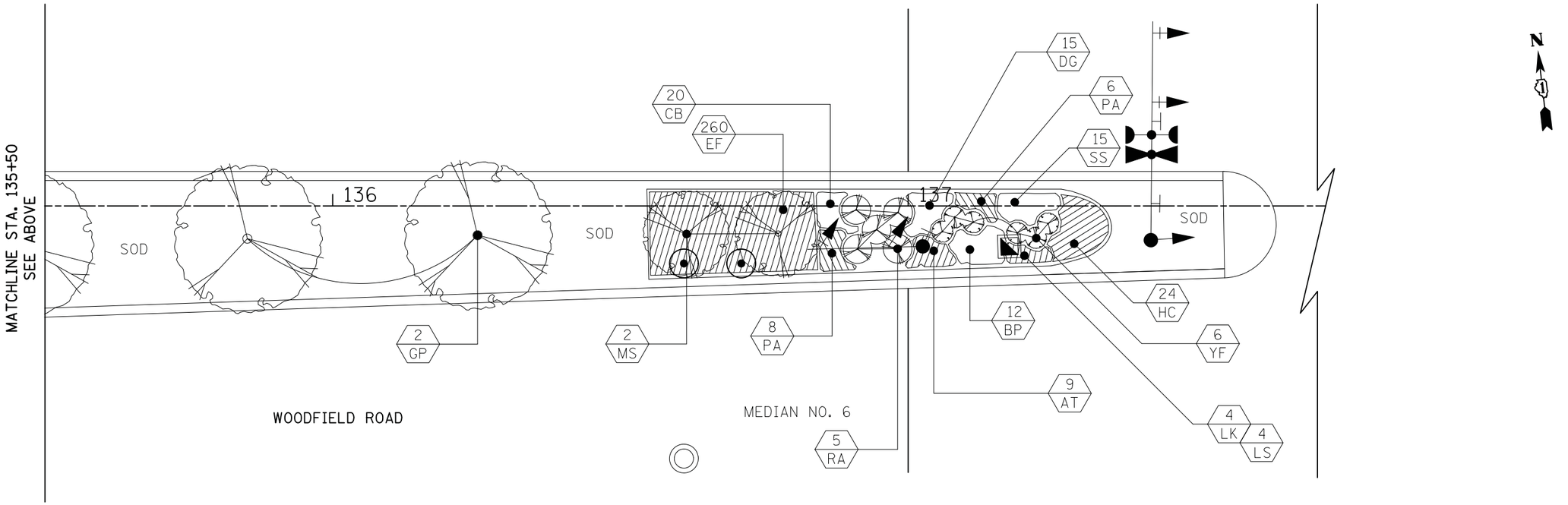
SCALE: 1"=10' | SHEET 2 OF 3 SHEETS

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	121
		CONTRACT NO. 61F09		
	ILLINOIS	FED. AID PROJECT		

LEGEND

12 EP ← NUMBER OF PLANTINGS / PLANT IDENTIFICATION (SEE BILL OF MATERIALS)





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PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

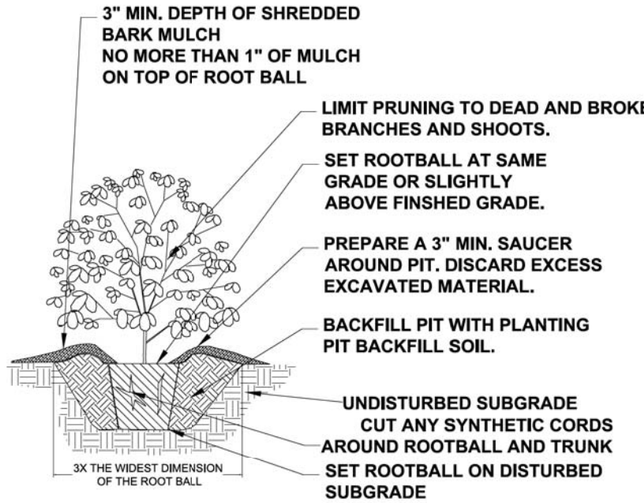
WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
PLANTING PLAN

SCALE: 1"=10' | SHEET 3 OF 3 SHEETS

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	122
		CONTRACT NO. 61F09		
	ILLINOIS	FED. AID PROJECT		

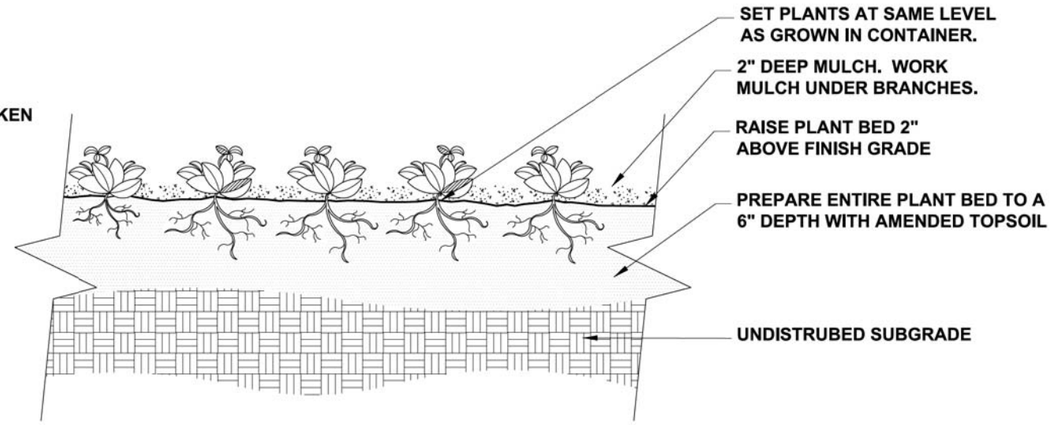
GENERAL CONSTRUCTION NOTES:

1. ALL ALTERATIONS MUST BE APPROVED BY THE ~~LANDSCAPE ARCHITECT.~~ ENGINEER.
2. CONTRACTORS MUST VERIFY ALL QUANTITIES AND OBTAIN ALL PROPER PERMITS AND LICENSES FROM THE PROPER AUTHORITIES.
3. ALL LANDSCAPE IMPROVEMENTS SHALL MEET MUNICIPALITY REQUIREMENTS AND GUIDELINES, WHICH SHALL BE VERIFIED BY MUNICIPAL AUTHORITIES.
4. ALL MATERIAL MUST MEET INDUSTRY STANDARDS AND THE ~~LANDSCAPE ARCHITECT~~ ENGINEER HAS THE RIGHT TO REFUSE ANY POOR MATERIAL OR WORKMANSHIP.
5. LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR UNSEEN SITE CONDITIONS.
6. ALL PLANTINGS SHALL BE SPACED EQUAL DISTANT, BACKFILLED WITH AMENDED SOIL IN A HOLE TWICE THE ROOTBALL DIAMETER, WATERED, FERTILIZED, PRUNED AND HAVE ALL TAGS AND ROPES REMOVED.
7. TREES SHALL BE STAKED AND GUYED AND WATERING SAUCER AT BASE.
8. ALL MASS PLANTED SHRUB BEDS TO BE BERMED 2" TO 3" ABOVE GRADE AND MEET DRAINAGE REQUIREMENTS.
9. LAWN AND BED AREAS SHALL BE ROTOTILLED AND CLUMPS OF SOIL, AGGREGATES AND DEBRIS RAKED OUT AND REMOVED FROM THE SITE.
10. ALL DISTURBED AREAS SHALL HAVE A MIN. OF 6" OF TOPSOIL PLACED AND THEN SEED, FERT. AND BLANKET INSTALLED.
11. ALL BEDS SHALL BE EDGED, HAVE WEED PRE-EMERGENTS APPLIED AT THE RECOMMENDED RATE, AND SHREDDED HARDWOOD MULCH SPREAD AT A MINIMUM OF 3" DEPTH.
12. ALL DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.
13. ALL EXISTING TREES OF HIGH QUALITY LOCATED OUTSIDE OF THE CONSTRUCTION ZONE SHALL BE SAVED.
14. CONTRACTOR TO DEEP SPADE EDGE AND MULCH ALL EXISTING LANDSCAPE BEDS WITHIN THE PROJECT LIMITS.



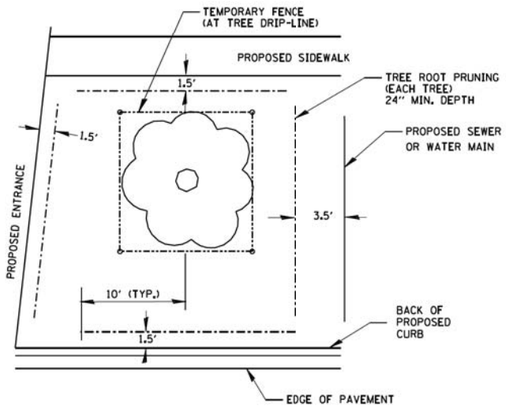
SHRUB PLANTING DETAIL

NO SCALE



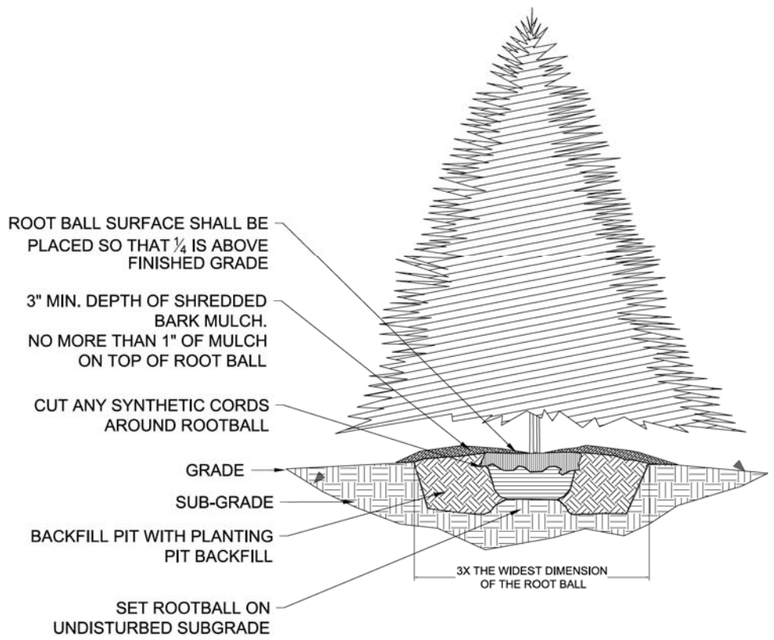
PERENNIAL, AND GROUNDCOVER DETAIL

NO SCALE



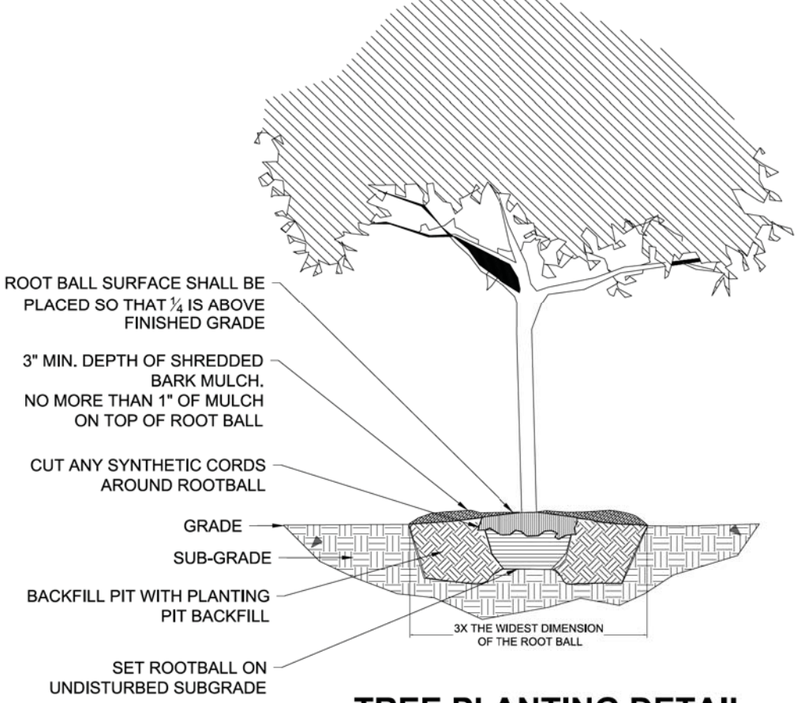
TREE & ROOT PROTECTION

N.T.S.



EVERGREEN TREE PLANTING DETAIL

NO SCALE



TREE PLANTING DETAIL

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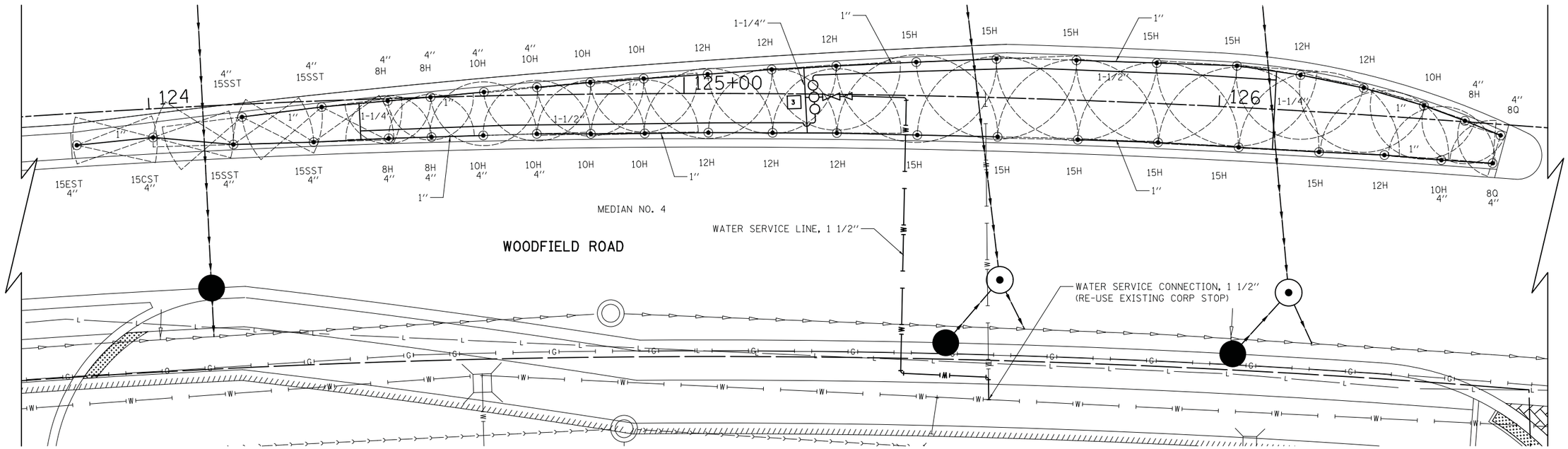
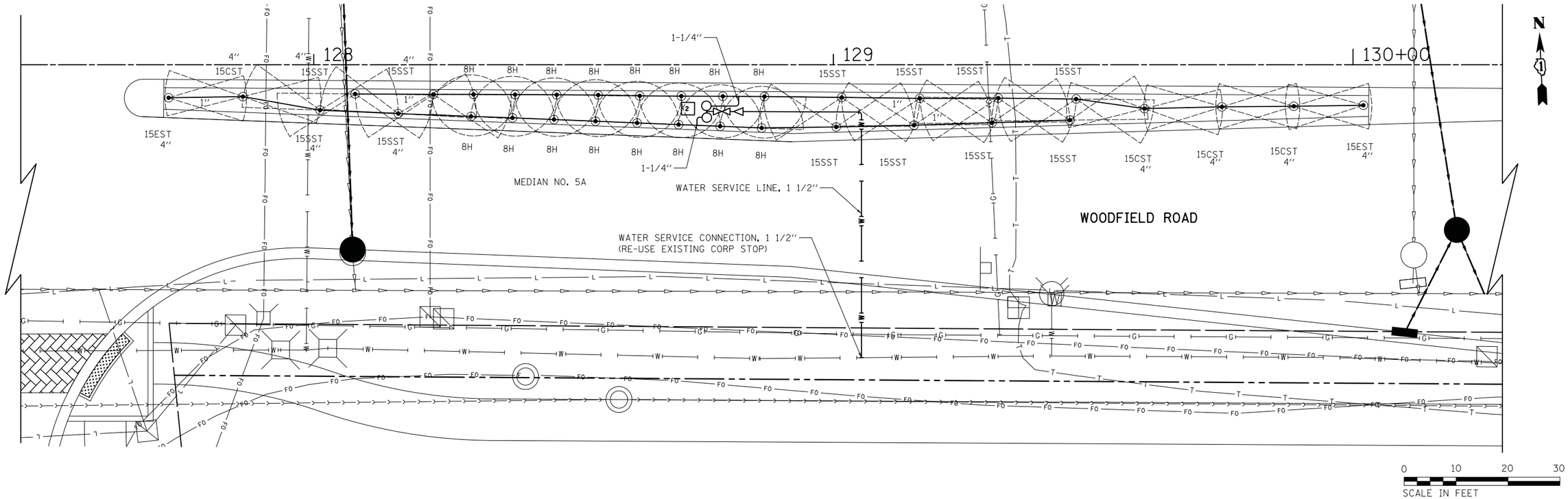
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
PLANTING DETAILS

SCALE: N.T.S. | SHEET 1 OF 1 SHEETS

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	123
		CONTRACT NO. 61F09		
	ILLINOIS	FED. AID PROJECT		





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PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
IRRIGATION PLAN

SCALE: 1"=10' | SHEET 1 OF 3 SHEETS | STA. | TO STA.

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	124
		CONTRACT NO. 61F09		
	ILLINOIS	FED. AID PROJECT		

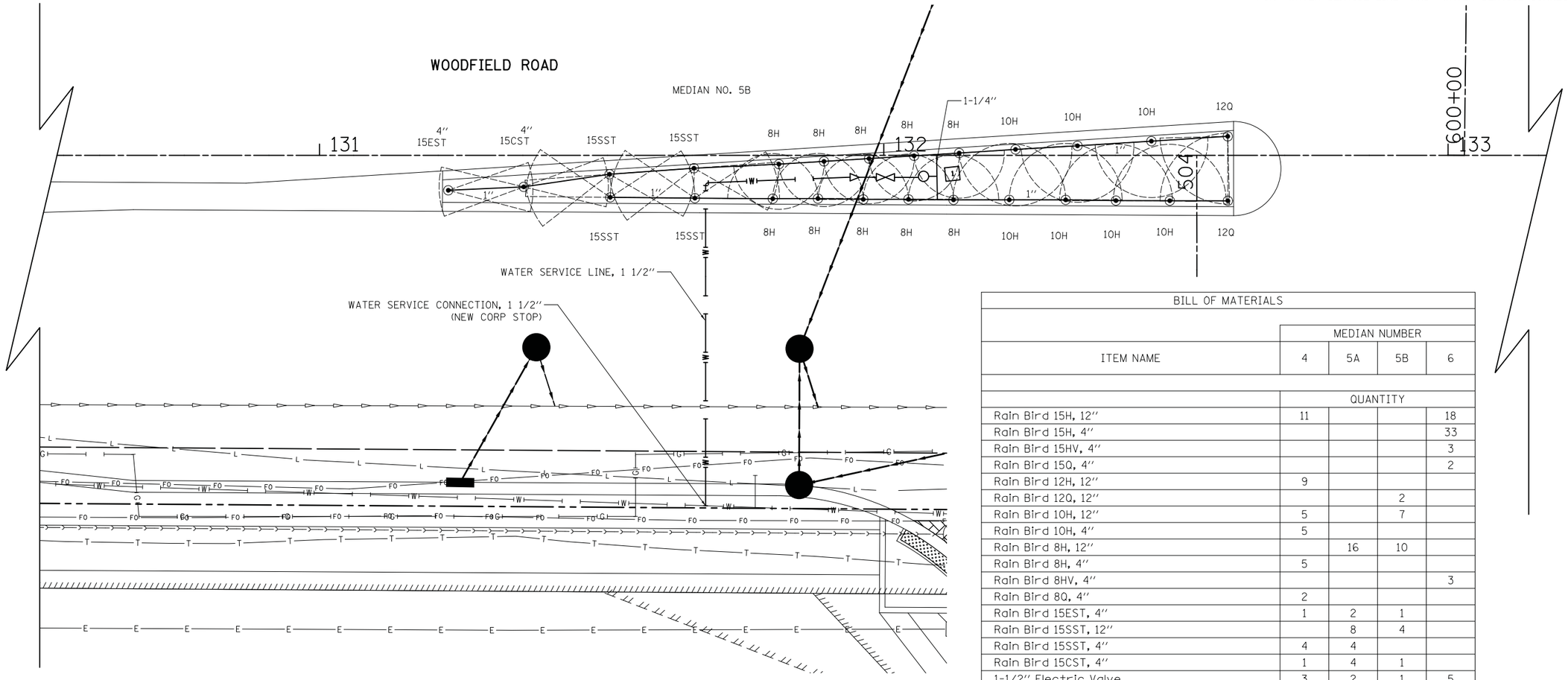
LEGEND

- POP-UP SPRAY HEAD (SIZE AND TYPE INDICATED)
- 1'' QUICK COUPLER
- 1 1/2'' RPZ
- 1 1/2'' ELECTRIC VALVE
- 1 — IRRIGATION CONTROLLER (NUMBER INDICATES NUMBER OF ZONES)

NOTES

1. EXISTING WATERMAIN PRESSURES ARE APPROXIMATELY BETWEEN 48-56 PSI. CONTRACTOR SHALL REVISE IRRIGATION ZONES ACCORDINGLY BASED ON IRRIGATION MANUFACTURER MINIMUM VALVE AND DRIP KIT INLET PRESSURE REQUIREMENTS.
2. ALL WORK SHALL BE IN COMPLIANCE WITH ALL LOCAL, STATE, AND FEDERAL CODES AND ORDINANCES.
3. ALL ELECTRICAL CONNECTIONS SHALL BE MADE USING WATERPROOF SPLICES.
4. PIPE ROUTING IS SCHEMATIC. FINAL IRRIGATION PIPE AND CONTROL CONDUIT PLACEMENT SHALL BE LOCATED TO MINIMIZE CONFLICTS WITH EXISTING AND PROPOSED UTILITIES (CONTRACTOR TO COORDINATE).
5. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND MAINTAINING THE IRRIGATION SCHEDULE DURING THE PROJECT CONSTRUCTION AND UNTIL THE SYSTEM IS ACCEPTED BY THE ENGINEER. LANDSCAPE MATERIAL SHALL RECEIVE ADJUSTED AMOUNTS OF PRECIPITATION TO MAINTAIN PROPER PLANT HEALTH.
6. IRRIGATION CONTROL WIRING SHALL CONSIST OF #14 AWG TINNED COPPER MULTI CONDUCTOR CABLE WITH A COMMON GROUND. CABLE SHALL BE RATED FOR UNDERGROUND, DIRECT BURIAL APPLICATIONS, AND PROVIDED WITH A SUNLIGHT/UV RESISTANT PVC OUTER JACKET. CONTRACTOR SHALL SIZE CABLE TO PROVIDE EACH CONTROL VALVE WITH 2/C #14 AWG WIRES.
7. IRRIGATION CONTRACTOR SHALL INCLUDE LABOR AND EQUIPMENT FOR PROVIDING ONE WINTER AND ONE SPRING STARTUP IN PROJECT SCOPE.
8. IRRIGATION PIPE & SPRAY HEADS SHALL BE LOCATED A MINIMUM OF 6'' BEHIND THE BACK OF CURB.
9. CONTRACTOR SHALL FURNISH AND INSTALL 1/C #12 SOLID XLP-TYPE USE TRACER WIRE. THE TRACER WIRE SHALL BE TAPED TO PROPOSED IRRIGATION PIPE APPROXIMATELY EVERY 8-10FT, AND TERMINATE AT TRACER ACCESS WELL, LOCATED ADJACENT TO IRRIGATION ENCLOSURE.
10. ALL POP-UP SPRAY HEADS ARE TO BE TWELVE INCHES (12'') IN HEIGHT UNLESS OTHERWISE NOTED.
11. ALL WORK SHOWN SHALL BE PAID FOR AS ''IRRIGATION SYSTEM'', EXCEPT FOR ''WATER SERVICE LINE'' AND ''WATER SERVICE CONNECTION.''

N



BILL OF MATERIALS

ITEM NAME	MEDIAN NUMBER 4	5A	5B	6
	QUANTITY			
Rain Bird 15H, 12''	11			18
Rain Bird 15H, 4''				33
Rain Bird 15HV, 4''				3
Rain Bird 15Q, 4''				2
Rain Bird 12H, 12''	9			
Rain Bird 12Q, 12''			2	
Rain Bird 10H, 12''	5		7	
Rain Bird 10H, 4''	5			
Rain Bird 8H, 12''		16	10	
Rain Bird 8H, 4''	5			
Rain Bird 8HV, 4''				3
Rain Bird 8Q, 4''	2			
Rain Bird 15EST, 4''	1	2	1	
Rain Bird 15SST, 12''		8	4	
Rain Bird 15SST, 4''	4	4		
Rain Bird 15CST, 4''	1	4	1	
1-1/2'' Electric Valve	3	2	1	5
Irrigation Controller	1	1	1	1
Low Voltage Wire	5	5	5	5
1'' PE Pipe	485	400	240	700
1-1/4'' PE Pipe	27	4	7	98
1-1/2'' PVC Pipe	175	4	4	485

0 10 20 30
SCALE IN FEET

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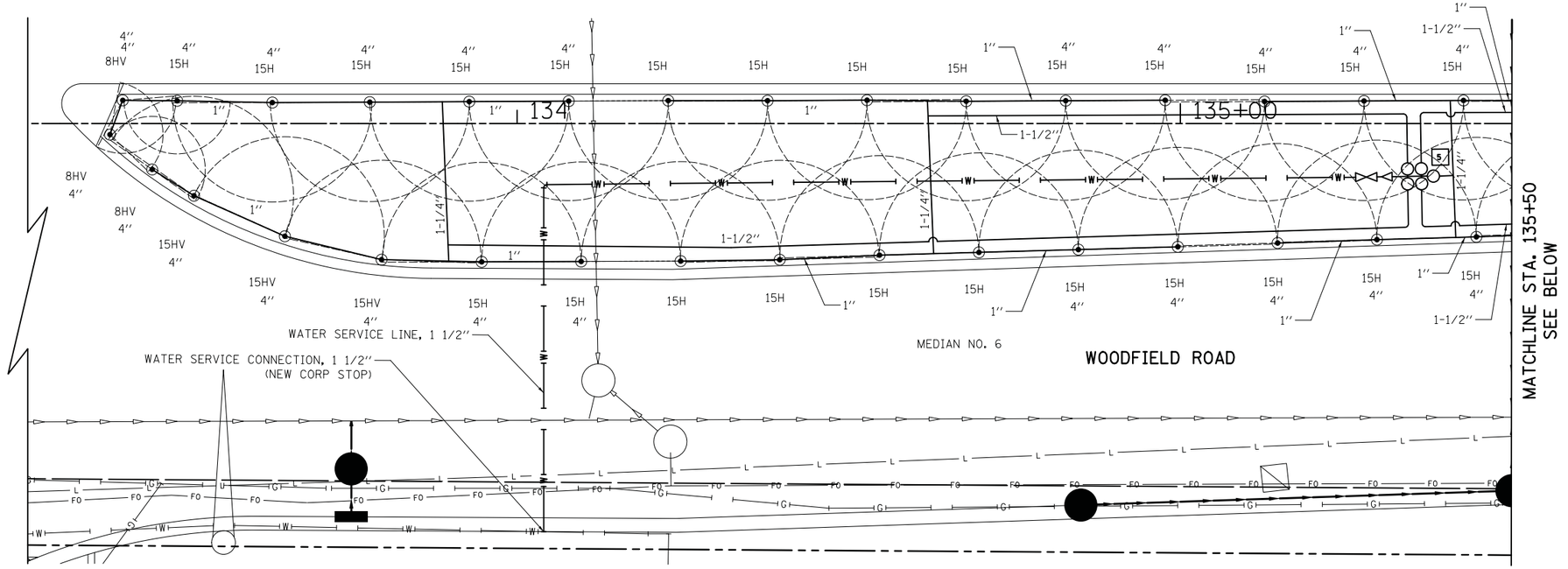
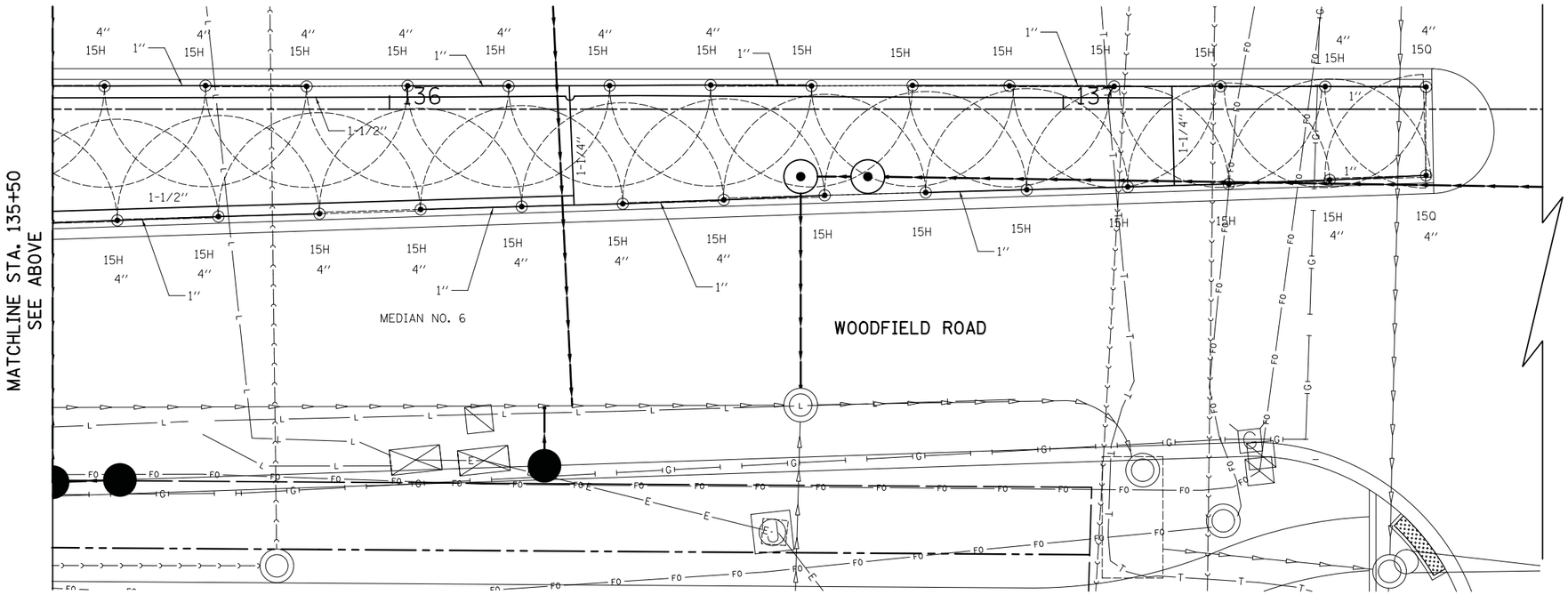
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
IRRIGATION PLAN

SCALE: 1''=10' | SHEET 2 OF 3 SHEETS | STA. | TO STA.

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	125
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			





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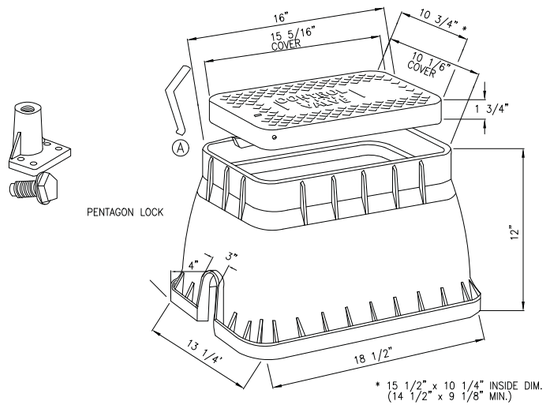
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
IRRIGATION PLAN

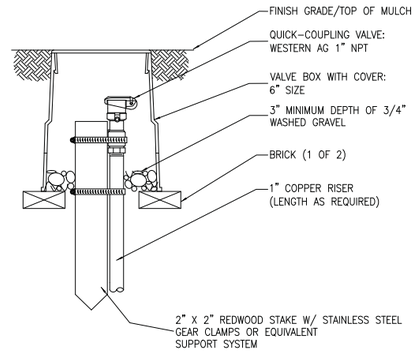
SCALE: 1"=10' | SHEET 3 OF 3 SHEETS | STA. | TO STA.

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	126
		CONTRACT NO. 61F09		
	ILLINOIS	FED. AID PROJECT		



NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

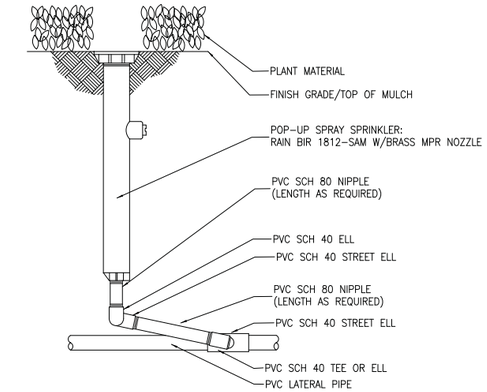
VALVE BOX (LARGE)



NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

QUICK COUPLE

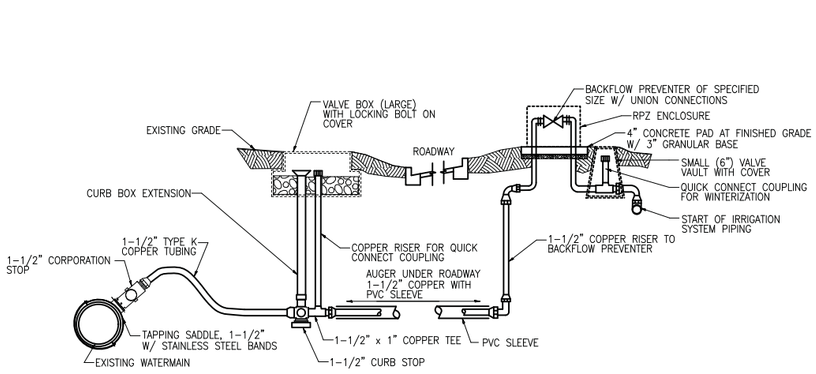
RUBBER COVERED QUICK COUPLING VALVE IN A VALVE BOX, ON A SWING JOINT STABILIZED WITH A REDWOOD STAKE AND CLAMPS.



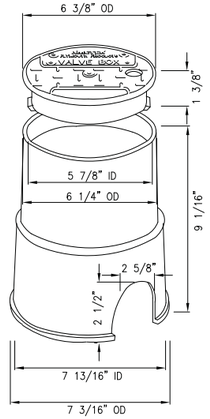
NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

1812 POP-UP SPRAY SPRINKLER

12" PLASTIC POP-UP SPRAY HEAD ON SWING JOINT, SHOWING BOTTOM INLET

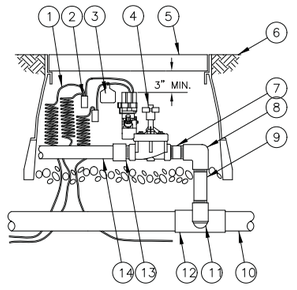


WATER SERVICE CONNECTION & BACKFLOW PREVENTER DETAIL FOR MEDIAN IRRIGATION SYSTEM



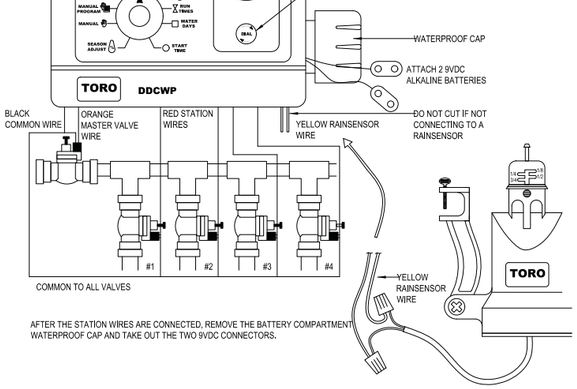
NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

VALVE BOX 6''



1. 30-INCH LINEAR LENGTH OF WIRE, COILED
2. WATERPROOF CONNECTION
3. ID TAG: RAIN BIRD VID SERIES
4. REMOTE CONTROL VALVE: RAIN BIRD PEB
5. VALVE BOX WITH COVER
6. FINISH GRADE/TOP OF MULCH
7. PVC SCH 80 NIPPLE (CLOSE)
8. PVC SCH 40 ELL
9. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
10. PVC MAINLINE PIPE
11. SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
12. PVC SCH 40 TEE OR ELL
13. PVC SCH 40 MALE ADAPTER
14. PVC LATERAL PIPE

ELECTRIC REMOTE CONTROL VALVE



NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.
3. CONTRACTORS NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info REFERENCE NUMBER 065-315.

DDCWP TORO CONTROLLER

INSTALLATION DETAIL

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD - MARTINGALE ROAD TO EAST FRONTAGE ROAD
IRRIGATION DETAILS

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	127
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED
CONTROLLER CABINET		
COMMUNICATION CABINET	ECC	CC
MASTER CONTROLLER	EMC	MC
MASTER MASTER CONTROLLER	EMMC	MMC
UNINTERRUPTABLE POWER SUPPLY		
SERVICE INSTALLATION -(P) POLE MOUNTED	P	P
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	G GM	G GM
TELEPHONE CONNECTION	ET	T
STEEL MAST ARM ASSEMBLY AND POLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY		BM
WOOD POLE		
GUY WIRE		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD OPTICALLY PROGRAMMED	P P	P P
FLASHER INSTALLATION -(FS) SOLAR POWERED	F FS F FS	F FS F FS
PEDESTRIAN SIGNAL HEAD		
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	APS	APS
RADAR DETECTION SENSOR	R	R
VIDEO DETECTION CAMERA	V	V
RADAR/VIDEO DETECTION ZONE		
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIMATION BEACON		
WIRELESS INTERCONNECT		
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR

ITEM	EXISTING	PROPOSED
HANDHOLE -SQUARE -ROUND		
HEAVY DUTY HANDHOLE -SQUARE -ROUND	H	H
DOUBLE HANDHOLE		
JUNCTION BOX		
RAILROAD CANTILEVER MAST ARM		
RAILROAD FLASHING SIGNAL		
RAILROAD CROSSING GATE		
RAILROAD CROSSBUCK		
RAILROAD CONTROLLER CABINET		
UNDERGROUND CONDUIT (UC), GALVANIZED STEEL		
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE		
SYSTEM ITEM	S	SP
INTERSECTION ITEM	I	IP
REMOVE ITEM		R
RELOCATE ITEM		RL
ABANDON ITEM		A
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF
MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF
SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF
DETECTOR LOOP, TYPE I		
PREFORMED DETECTOR LOOP	P	P
SAMPLING (SYSTEM) DETECTOR	S	S
INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	IS	IS
QUEUE AND SAMPLING (SYSTEM) DETECTOR	QS	QS
WIRELESS DETECTOR SENSOR	W	W
WIRELESS ACCESS POINT		

ITEM	EXISTING	PROPOSED
SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	R Y G ◄Y ◄G (P)	R Y G ◄Y ◄G (P)
SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	(P) (RB)	(P) (RB)
PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	C D	C D
ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED	5	5
GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1#6	1#6
ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C	1	1
COAXIAL CABLE	C	C
VENDOR CABLE	V	V
COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	6#18	6#18
FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	12F 24F 36F	12F 24F 36F
GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	C M P S	C M P S

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	PLOT DATE = 9/29/2016	DATE - 9/29/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 1 OF 7 SHEETS | STA. | TO STA.

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/1689	14-00114-01-PV	COOK	282	128
	TS-05	CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			

ts05.dgn 9/29/2016 7:58:13 PM User:leyaa

LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.

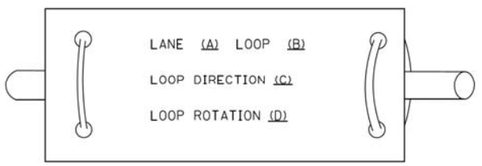
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.

6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

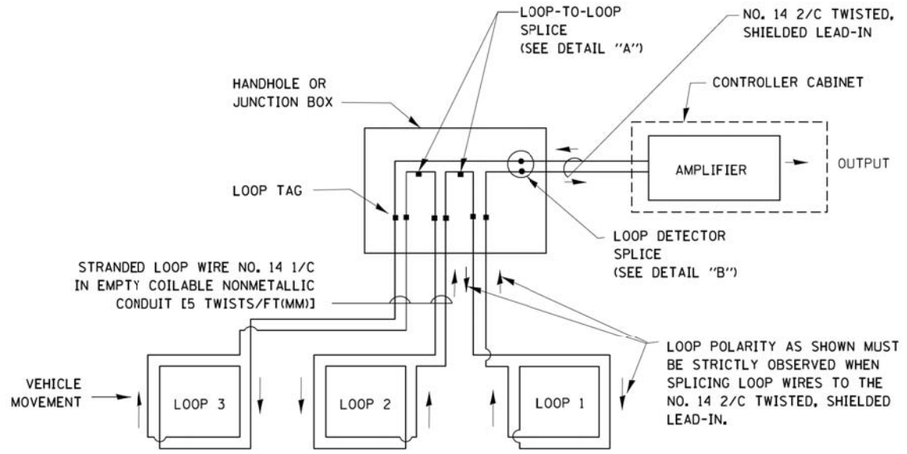


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

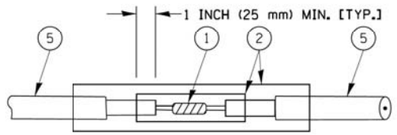
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

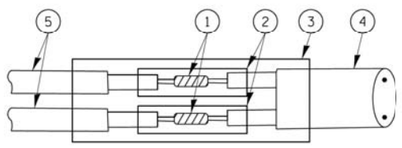


DETECTOR LOOP WIRING SCHEMATIC

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

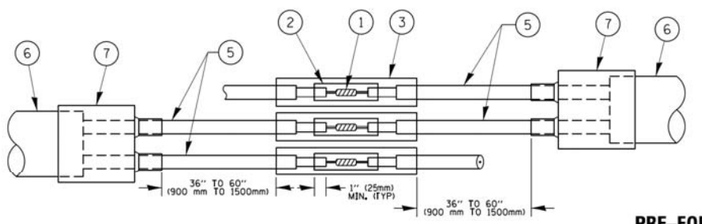


DETAIL "A"
LOOP-TO-LOOP SPLICE



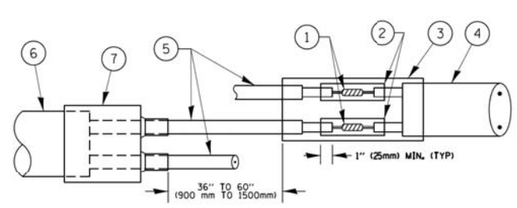
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

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. THE WESTERN UNION SPLICES SHALL BE STAGGERED.

(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

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	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 2 OF 7 SHEETS | STA. | TO STA.

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/1689	14-00114-01-PV	COOK	282	129
	TS-05	CONTRACT NO. 61F09		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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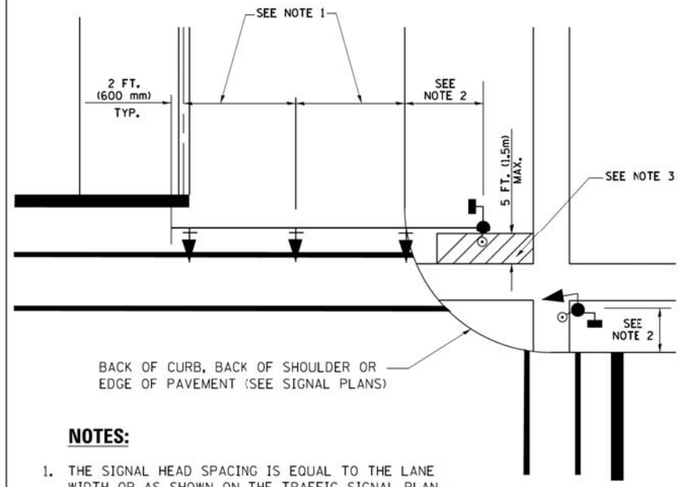
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

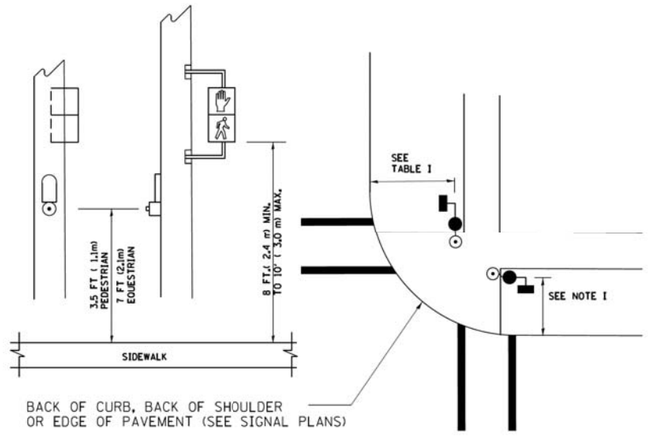
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



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."

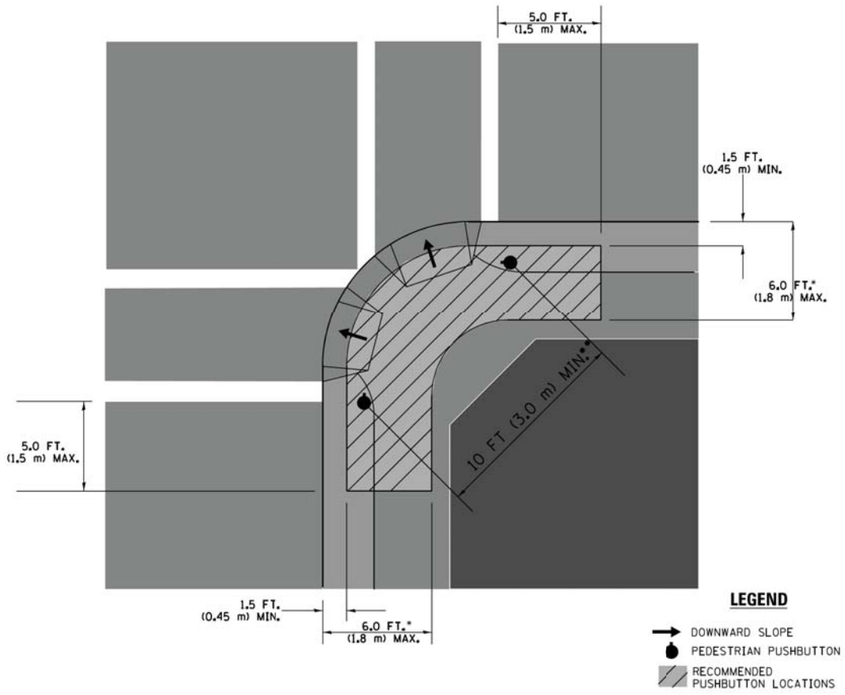
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



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 TOTHE 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.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 3 OF 7 SHEETS | STA. | TO STA.

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/1689	14-00114-01-PV	COOK	282	130
	TS-05	CONTRACT NO. 61F09		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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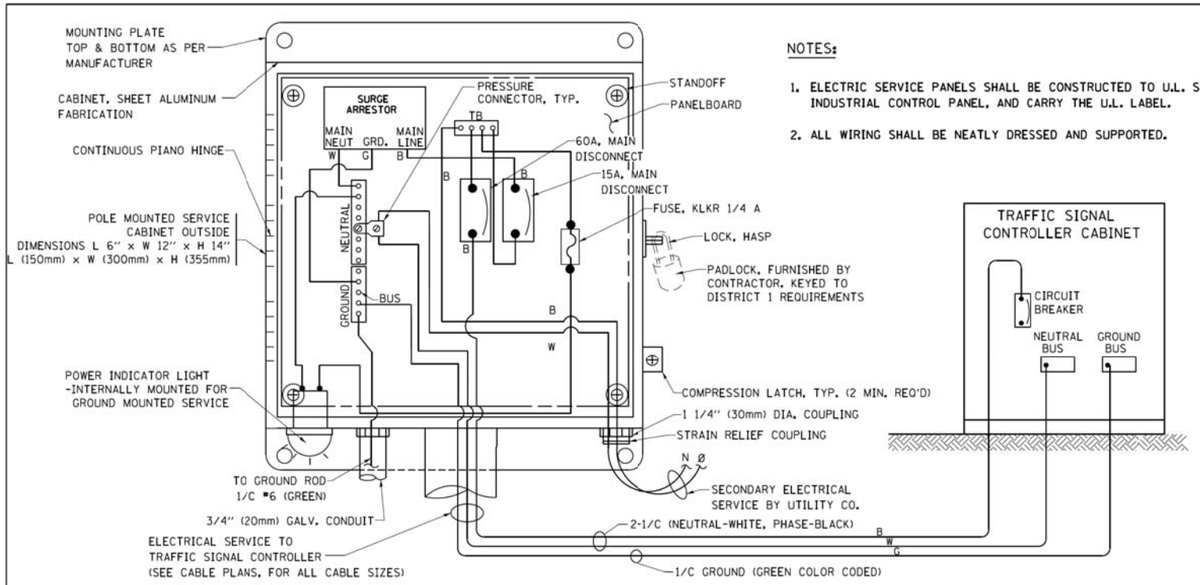


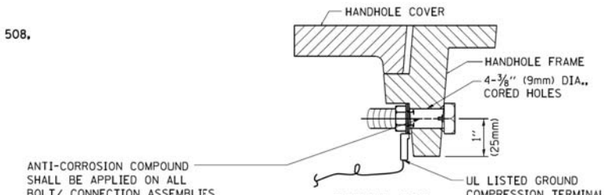
NOTES:

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.

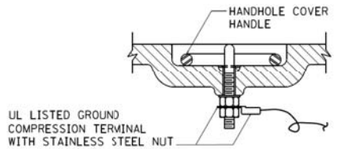
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)



DETAIL "A"

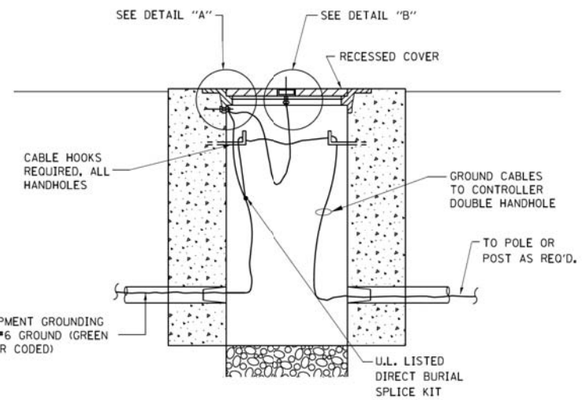


DETAIL "B"

NOTES:

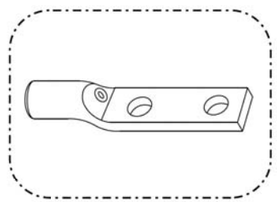
GROUNDING SYSTEM

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.

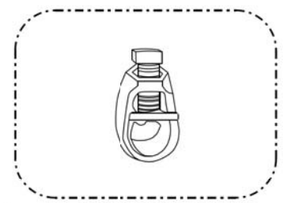


HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



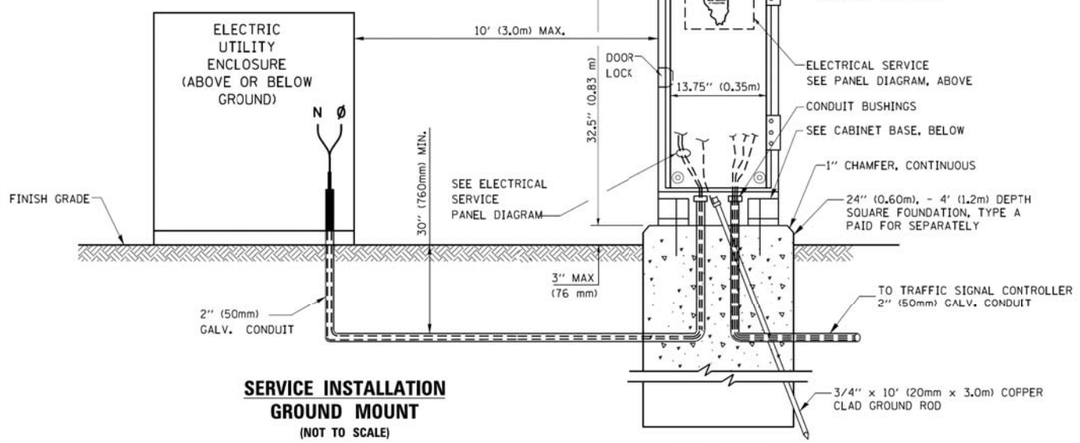
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



¾" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

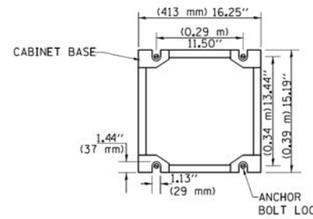
NOTES:

- 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.



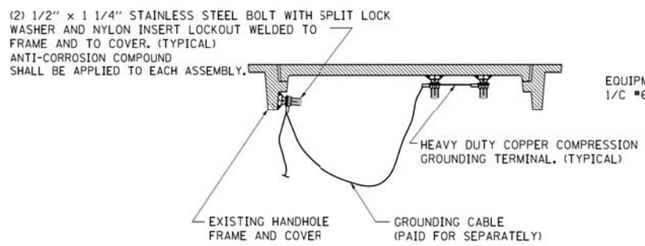
SERVICE INSTALLATION GROUND MOUNT

(NOT TO SCALE)



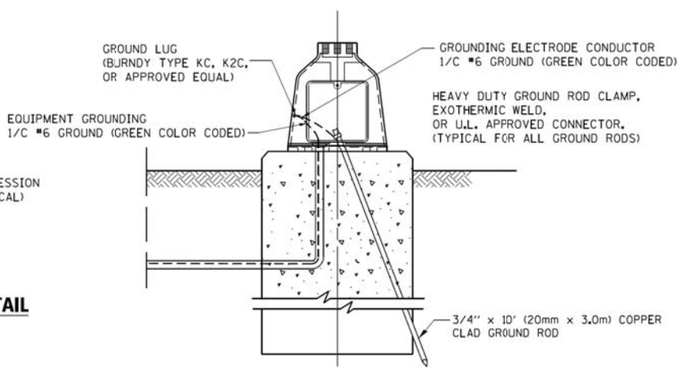
CABINET – BASE BOLT PATTERN

(NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



MAST ARM POLE / POST–GROUNDING DETAIL

(NOT TO SCALE)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE

STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 4 OF 7 SHEETS | STA. | TO STA.

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/1689	14-00114-01-PV	COOK	282	131
	TS-05	CONTRACT NO. 61F09		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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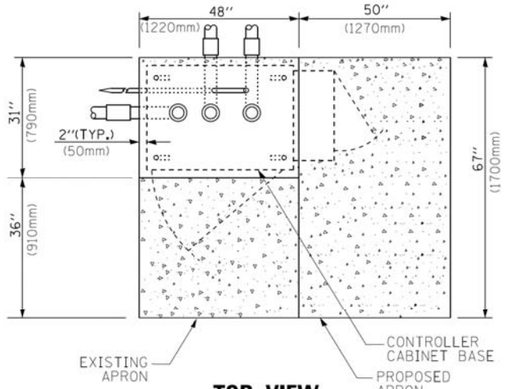
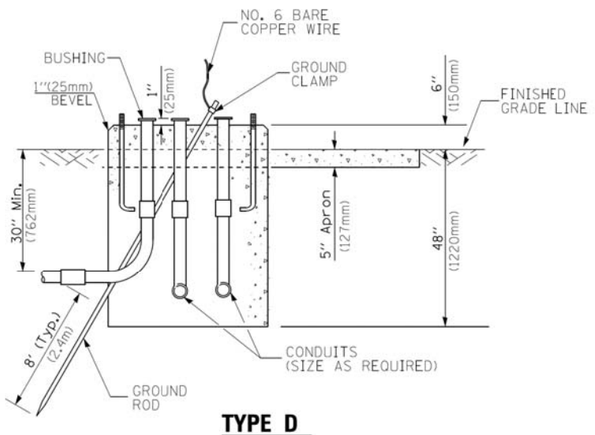
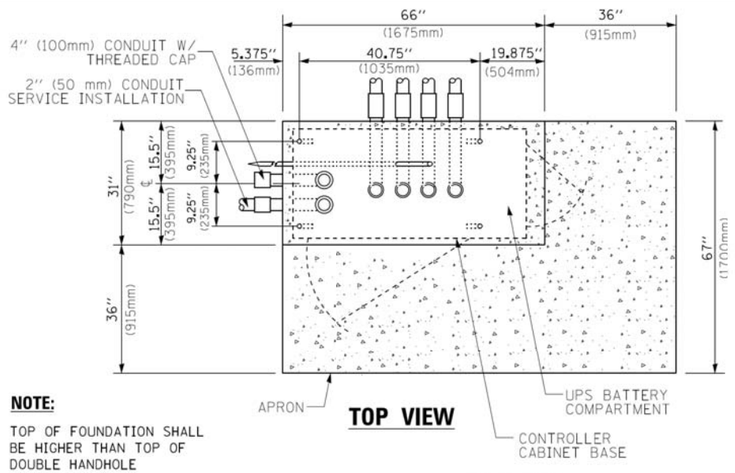


TOP VIEW



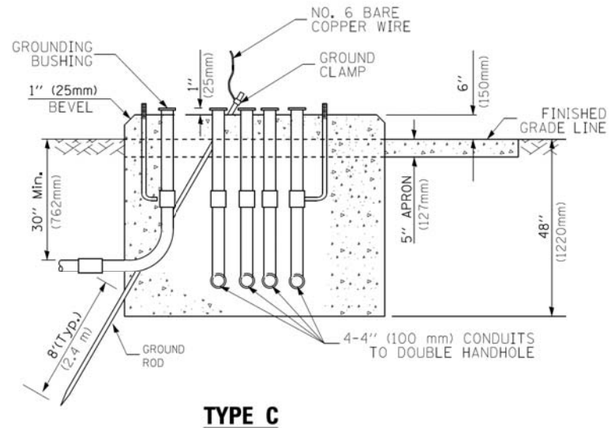
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



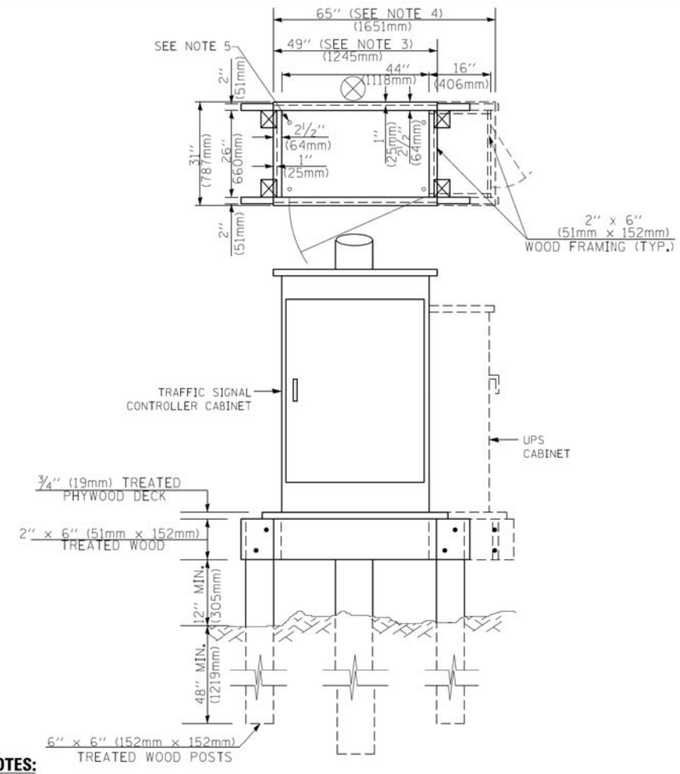
NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE

TOP VIEW



TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS



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 cay, 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

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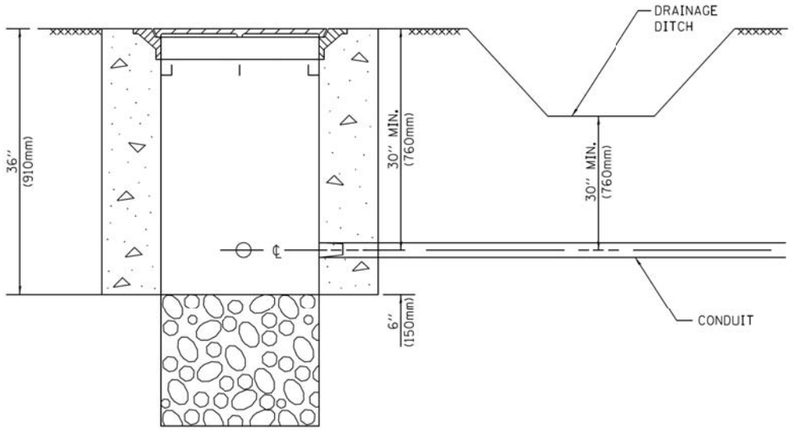
	PLOT SCALE = 50.0000 ' / in.	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE	SHEET NO. 5 OF 7 SHEETS	STA.	TO STA.

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/1689	14-00114-01-PV	COOK	282	132
	TS-05	CONTRACT NO. 61F09		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

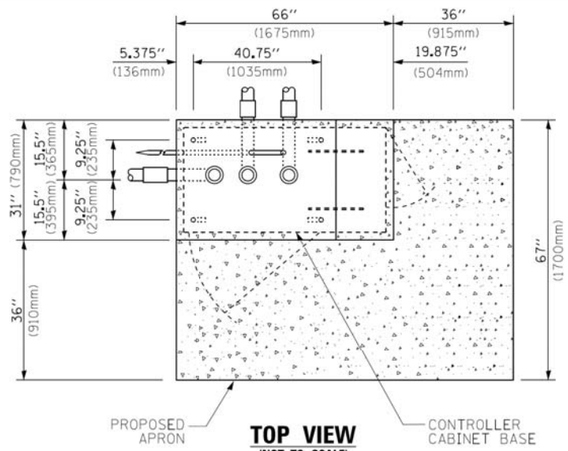


NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

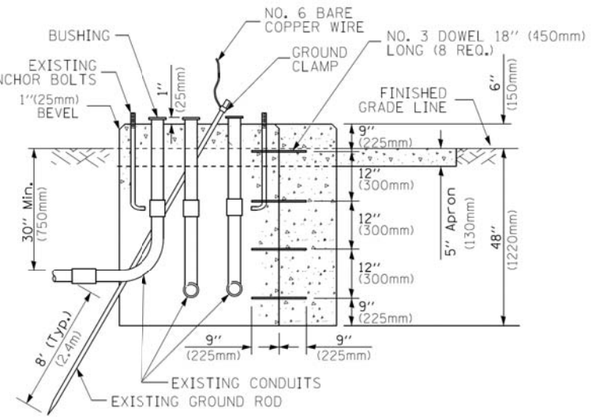
HANDHOLE WITH MINIMUM CONDUIT DEPTH

(NOT TO SCALE)



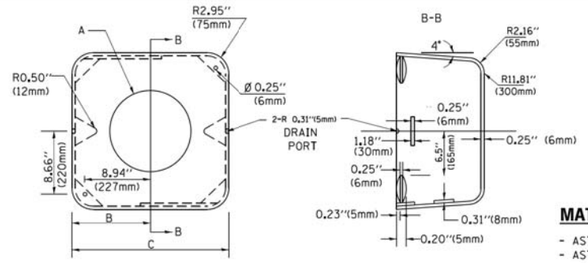
TOP VIEW

(NOT TO SCALE)



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

(NOT TO SCALE)



MATERIAL:

- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

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

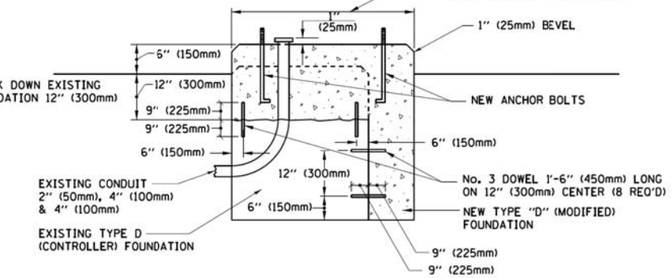
SHROUD

NOTES:

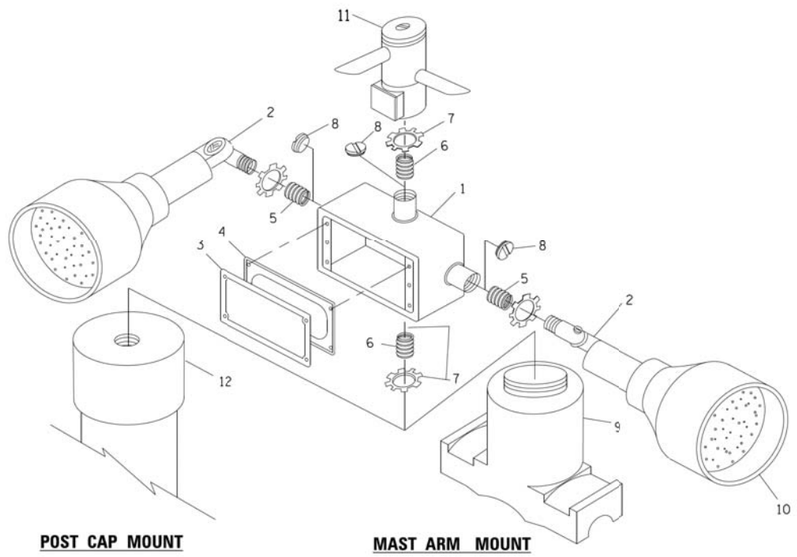
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE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

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



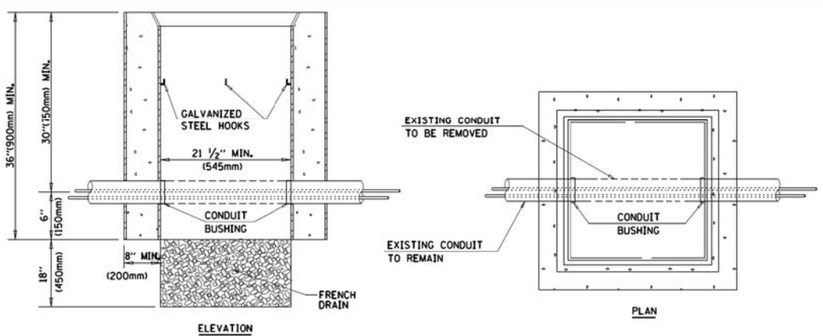
POST CAP MOUNT **MAST ARM MOUNT**

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

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	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(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:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. 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
3. 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:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

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	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 6 OF 7 SHEETS | STA. | TO STA.

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/1689	14-00114-01-PV	COOK	282	133
	TS-05	CONTRACT NO. 61F09		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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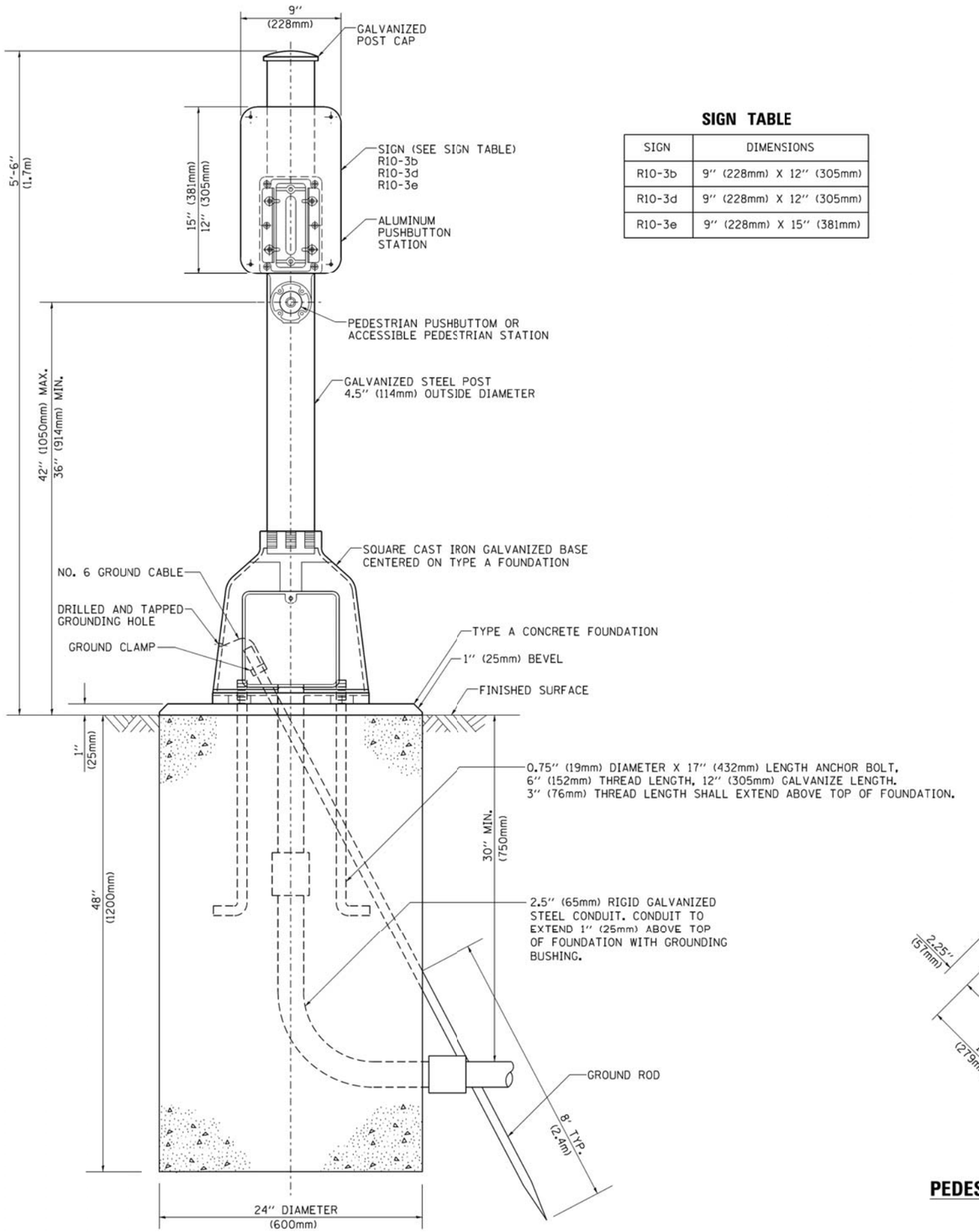
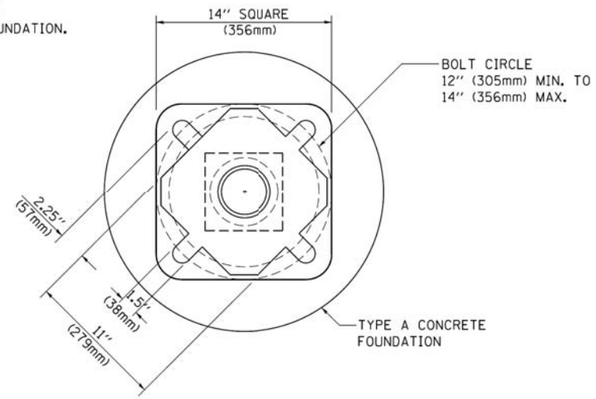


SIGN TABLE

SIGN	DIMENSIONS
R10-3b	9'' (228mm) X 12'' (305mm)
R10-3d	9'' (228mm) X 12'' (305mm)
R10-3e	9'' (228mm) X 15'' (381mm)



BOLT PATTERN

PEDESTRIAN PUSH BUTTON POST, TYPE A

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	PLOT DATE = 1/13/2014	DATE - 10/1/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 7 OF 7 SHEETS | STA. | TO STA.

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/1689	14-00114-01-PV	COOK	282	134
	TS-05	CONTRACT NO. 61F09		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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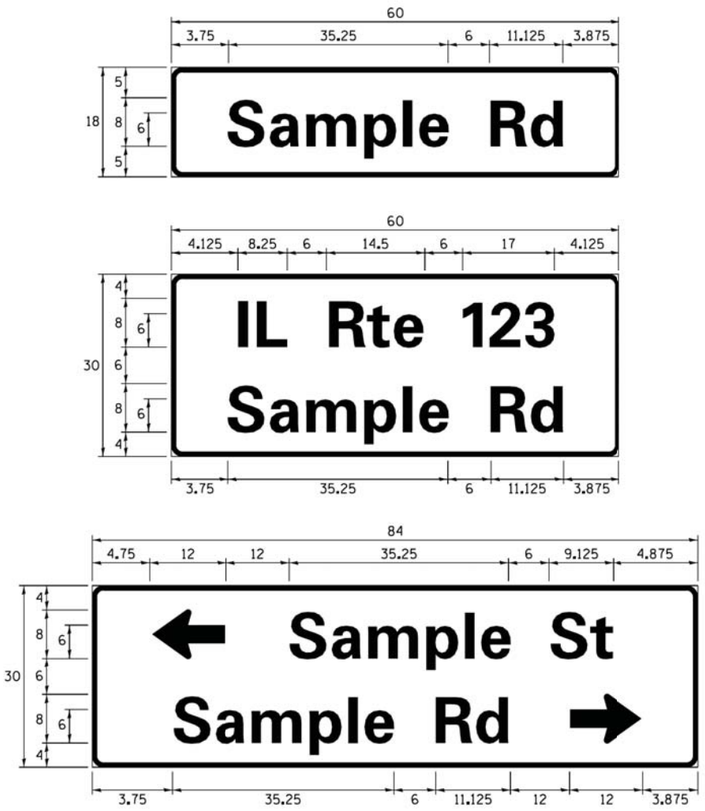
SIGN PANEL – TYPE 1 OR TYPE 2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Clr	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

GENERAL NOTES

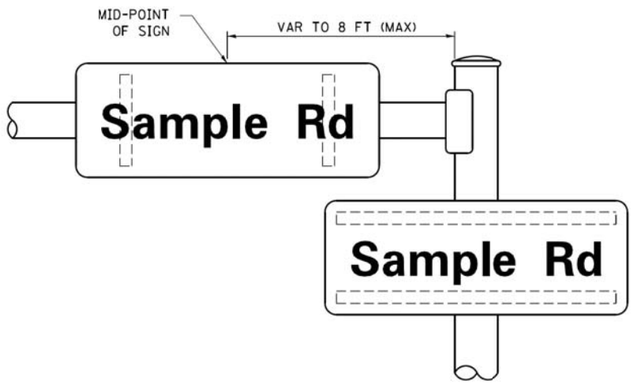
1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
2. ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
3. THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE ¾" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUN OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
4. A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8"-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
5. LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
6. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:	PARTS LISTING:	
- J.O. HERBERT COMPANY, INC MIDLOTHIAN, VA	SIGN CHANNEL	PART #HPN053 (MED. CHANNEL)
	SIGN SCREWS	1/4" x 14 x 1" H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER
- WESTERN REMAC, INC. WOODRIDGE, IL	BRACKETS	PART #HPN034 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

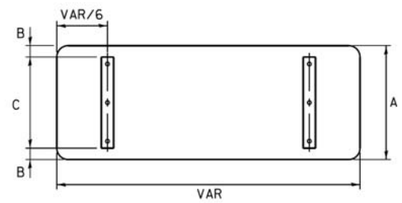
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION

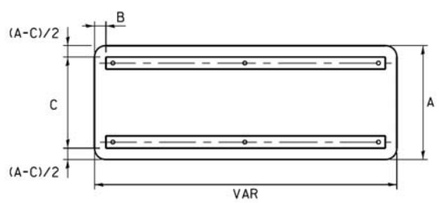
ARM OR POLE MOUNTED



SUPPORTING CHANNELS



A	B	C
18"	2"	14"
30"	2"	24"



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

STANDARD ALPHABETS SPACING CHART

(8") UPPER CASE AND (6") LOWER CASE

FHWA SERIES "C"				FHWA SERIES "D"			
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

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		DRAWN - LP	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED - IP	REVISED -
Default	PLOT DATE = 7/31/2015	DATE - 10/01/2014	REVISED -

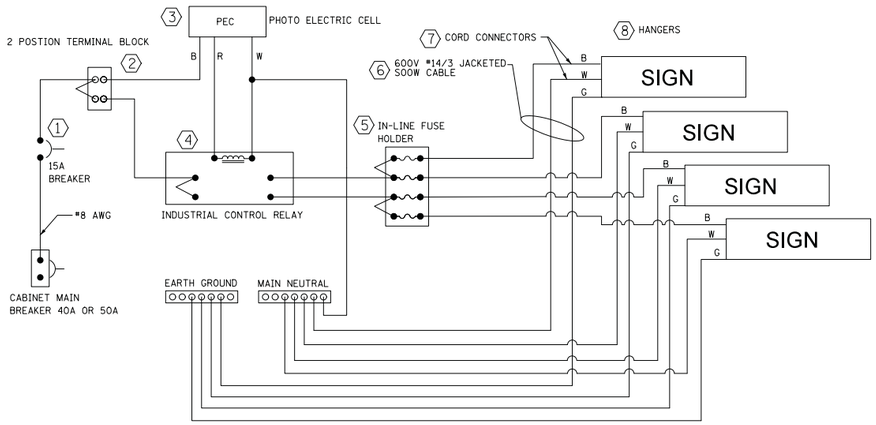
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

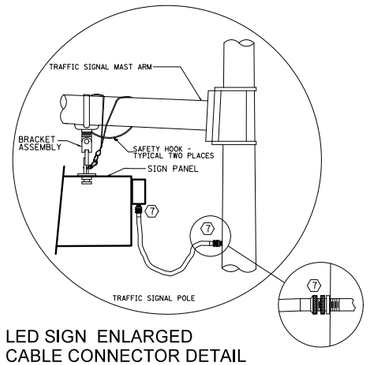
MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/1689	14-00114-01-PV	COOK	282	135
	TS-02	CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			

ts02.dgn 7/31/2015 11:37:05 AM User:drivakosgn

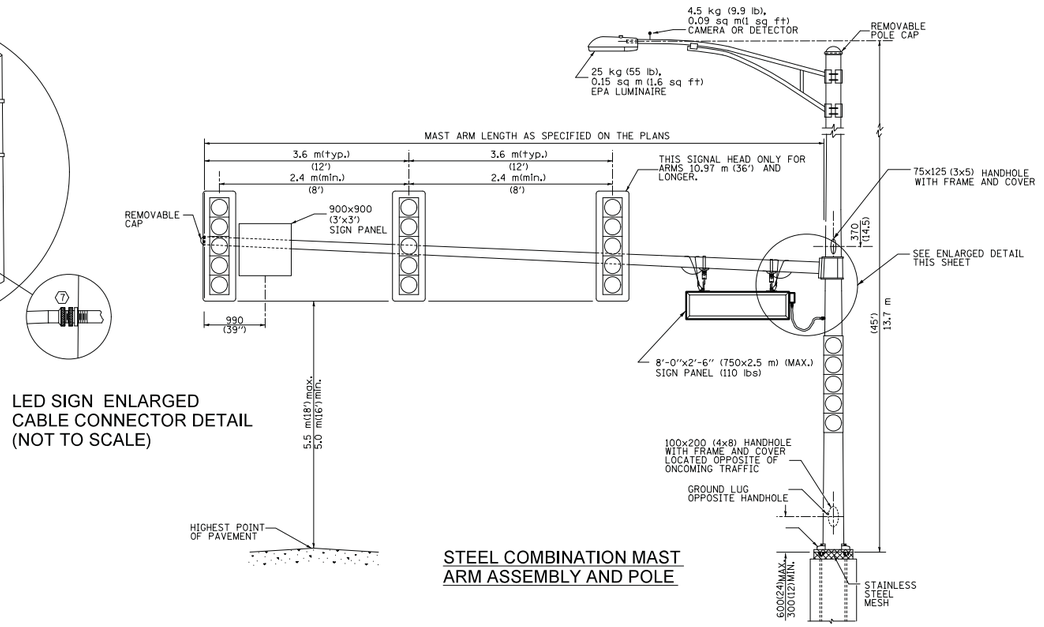


LED SIGN WIRING DETAIL

DESCRIPTION	NOTES
1. CIRCUIT BREAKER	
2. TERMINAL BLOCK	
3. PHOTO ELECTRIC CONTROL	
4. CONTRACTOR (INDUSTRIAL CONTROL RELAY)	BOLT ON W/SCREW TERMINAL
5. INLINE FUSE HOLDER WITH 5 AMP FUSE	
6. ELECTRIC CABLE, No. 14, 3/C (BLACK, WHITE, GREEN)	
7. CORD/CABLE CONNECTOR	
8. SIGN MOUNTING HARDWARE	



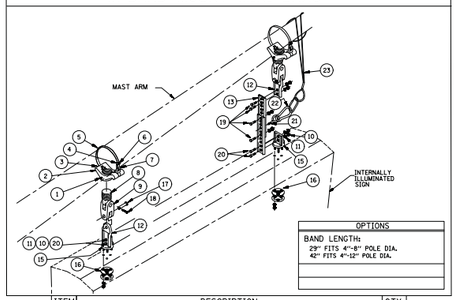
LED SIGN ENLARGED CABLE CONNECTOR DETAIL (NOT TO SCALE)



LED SIGN ENLARGED CABLE CONNECTOR DETAIL (NOT TO SCALE)

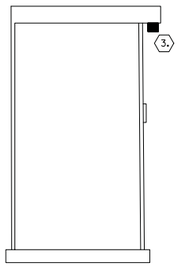
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE

TITLE: BRACKET, FREE-SWINGING MAST ARM SIGN W/BAND MOUNT MINI-BRAC



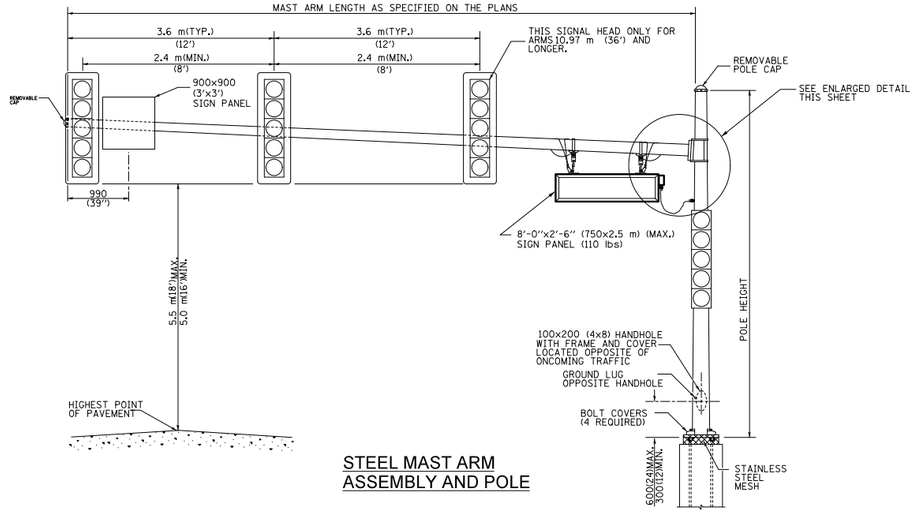
ITEM	DESCRIPTION	QTY
1	SCREW, SET SQ HD 1/4"-20 X 5/8", STAINLESS	2
2	CLAMP, MINI-BRAC BAND MOUNT, 1½" NPS, ALUM	2
3	PIN, GROOVE 3/16" x 1 1/4", ZINC1	2
4	CLAMP, BAND 5/8", STAINLESS	2
5	BAND, 5/8", STAINLESS	2
6	SCREW, SET SOC HD 5/16"-18, STAINLESS	2
7	KIT, CLAMP SCREW FOR MINI-BRAC, GALV	2
8	ADAPTER, SPAN WIRE, DIE CAST ALUM W/ SS INSERT	2
9	CLEVIS-CLEVIS, ½" x ½", ALUM W/ STAINLESS BUSHINGS	2
10	NUT, HEX HD 5/16", STAINLESS	8
11	WASHER, SPLIT LOCK, 5/16", STAINLESS	8
12	EXTENDER CONNECTOR HANGER, ALUM W/ STAINLESS BUSHINGS	2
13	EXTENDER, 11"	2
15	HANGER, TRI-STUD, ALUM	2
16	HARDWARE KIT W/ GASKET, 5/16" - 18, STAINLESS	2
17	PIN, CLEVIS, 5/8" x 2¼" EL, GALV	4
18	PIN, COTTER HUMPED, 5/32" x 1.775" 304 STAINLESS	4
19	BOLT, HEX HD, 5/16" - 18 x 1", STAINLESS	4
20	BOLT, HEX HD, 5/16" - 18 x 1¼", STAINLESS	4
21	EYE HOOK, STAINLESS STEEL (RATED FOR APPROPRIATE LOAD)	2
22	CARABINER HOOK, STAINLESS STEEL, (RATED FOR APPROPRIATE LOAD)	2
23	CABLE, SAFETY, FOR SIGN HANGERS, STAINLESS	2
	SLEEVE, COMPRESSION, OVAL, STAINLESS	4
	WIRE ROPE, 3/16" X 7 X 19, AIRCRAFT, TYPE 304 STAINLESS	2
	CONNECTOR, THREADED, 3/16" X 1-1/2", STAINLESS	2
	INSTRUCTIONS, SAFETY CABLE FOR SIGN HANGERS	2

LED SIGN BRACKET DETAIL



CONTROLLER CABINET

SIDE VIEW



STEEL MAST ARM ASSEMBLY AND POLE

GENERAL NOTE:

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

1. SIGNAL HEADS, SIGN PANELS, AND OTHER ATTACHMENT ARE SHOWN FOR MINIMUM DESIGN LOADING PURPOSES ONLY. EACH SIGNAL HEAD SHALL WEIGH 36 Kg (80 lb) AND HAVE A PROJECTED AREA OF 1.37 sq. m (14.7 sq ft.).
2. PHOTO ELECTRIC CELL IS TO BE MOUNTED ABOVE CABINET DOOR.
3. THE SIGN SHALL BE LOCATED AS SHOWN ON STANDARD 720016.
4. SIGN IS TO BE MOUNTED A MINIMUM OF 16' ABOVE PAVEMENT.
5. CERTAIN ADDITIONAL INFORMATION MAY BE ALLOWED ON THE SIGN. VERIFY WITH ENGINEER.
6. SIGNS SHALL NOT BE ENERGIZED WHEN TRAFFIC SIGNALS ARE POWERED BY THE UPS THE SIGNS SHALL BE CONNECTED TO THE UPS BYPASS CIRCUITRY.
7. ALL 120 VOLT SYSTEM AND CONTROL WIRING SHALL BE #12 AWG STRANDED UNLESS OTHERWISE INDICATED.
8. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
9. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:
   R = RED BL = BLUE W = WHITE
   B = BLACK Y = YELLOW G = GREEN

FILE NAME = ...\09_Illuminated SNS Design.dgn

CIVILTECH

USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
LED INTERNALLY ILLUMINATED STREET NAME SIGN DETAIL

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	136
		CONTRACT NO. 61F09		
	ILLINOIS	FED. AID PROJECT		

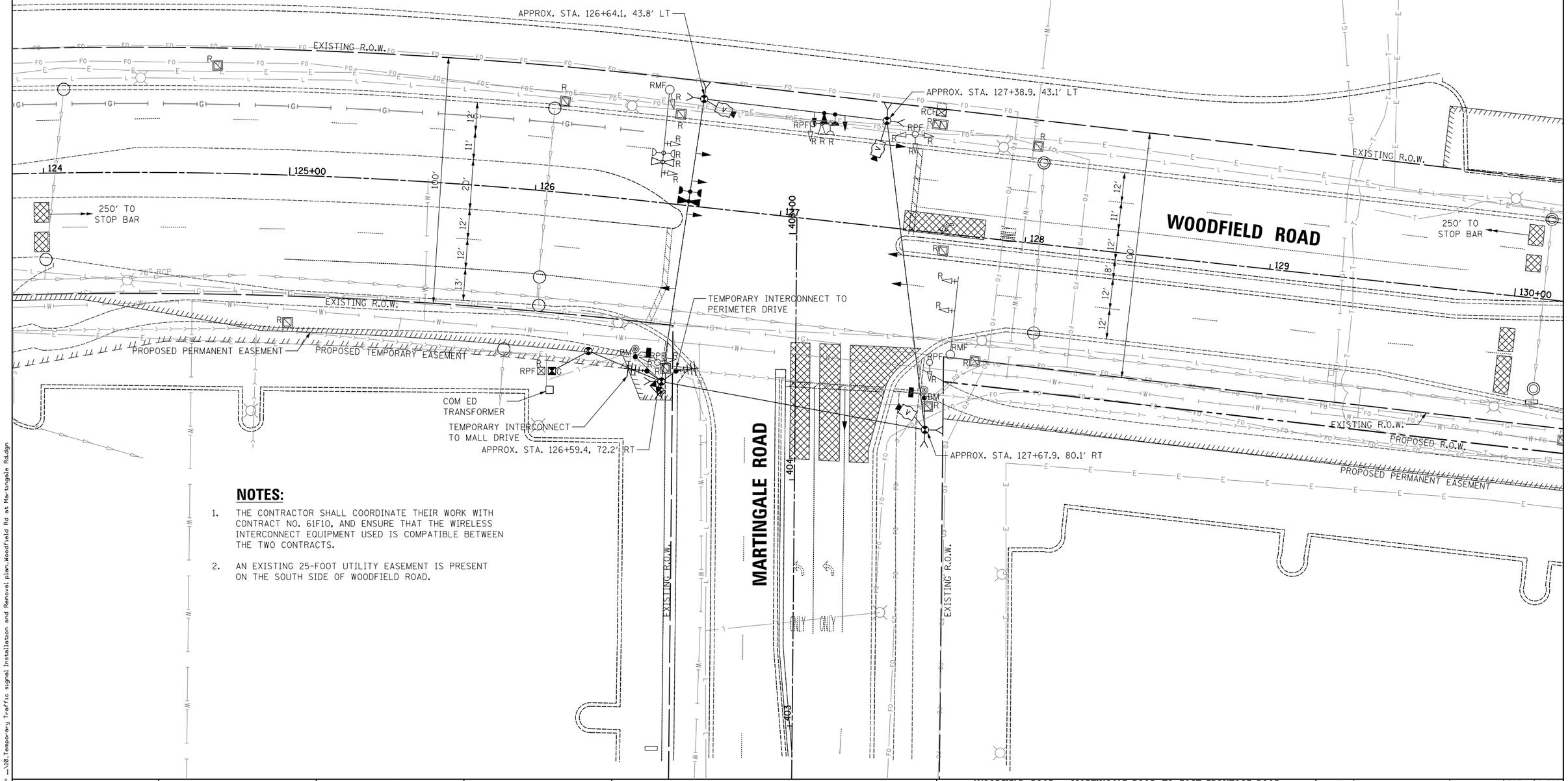
REMOVAL NOTES:

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

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

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE VILLAGE OF SCHAUMBURG. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICKUP OF ALL EQUIPMENT TO BE RETURNED TO THE VILLAGE AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFER



NOTES:

1. THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH CONTRACT NO. 61F10, AND ENSURE THAT THE WIRELESS INTERCONNECT EQUIPMENT USED IS COMPATIBLE BETWEEN THE TWO CONTRACTS.
2. AN EXISTING 25-FOOT UTILITY EASEMENT IS PRESENT ON THE SOUTH SIDE OF WOODFIELD ROAD.

FILE NAME = ...\10.Temporary Traffic signal installation and Removal plan_Woodfield Rd at Martingale Rddgn

CIVILTECH

USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
WOODFIELD ROAD AND MARTINGALE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	137
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			

N

APPROX. STA. 126+64.1, 43.8' LT

APPROX. STA. 127+38.9, 43.1' LT

EXISTING R.O.W.

EXISTING R.O.W.

250' TO STOP BAR

124

125+00

126

100'

12'

11'

11'

WOODFIELD ROAD

ONLY

250' TO STOP BAR

128

129

130+00

60'

12'

12'

400+00

BM

BM

EXISTING R.O.W.

PROPOSED PERMANENT EASEMENT

PROPOSED TEMPORARY EASEMENT

G

COM ED TRANSFORMER

TEMPORARY INTERCONNECT TO MALL DRIVE

APPROX. STA. 126+59.4, 72.2' RT

TEMPORARY INTERCONNECT TO PERIMETER DRIVE

12'

12'

404

MARTINGALE ROAD

EXISTING R.O.W.

EXISTING R.O.W.

403

APPROX. STA. 127+67.9, 80.1' RT

EXISTING R.O.W.

PROPOSED R.O.W.

PROPOSED PERMANENT EASEMENT

NOTES:

1. THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH CONTRACT NO. 61F10, AND ENSURE THAT THE WIRELESS INTERCONNECT EQUIPMENT USED IS COMPATIBLE BETWEEN THE TWO CONTRACTS.

2. AN EXISTING 25-FOOT UTILITY EASEMENT IS PRESENT ON THE SOUTH SIDE OF WOODFIELD ROAD.

FILE NAME = ...\10A_Temporary MOT Signal plan Stage 1_Woodfield Rd at Martingale Rdidgn

CIVILTECH

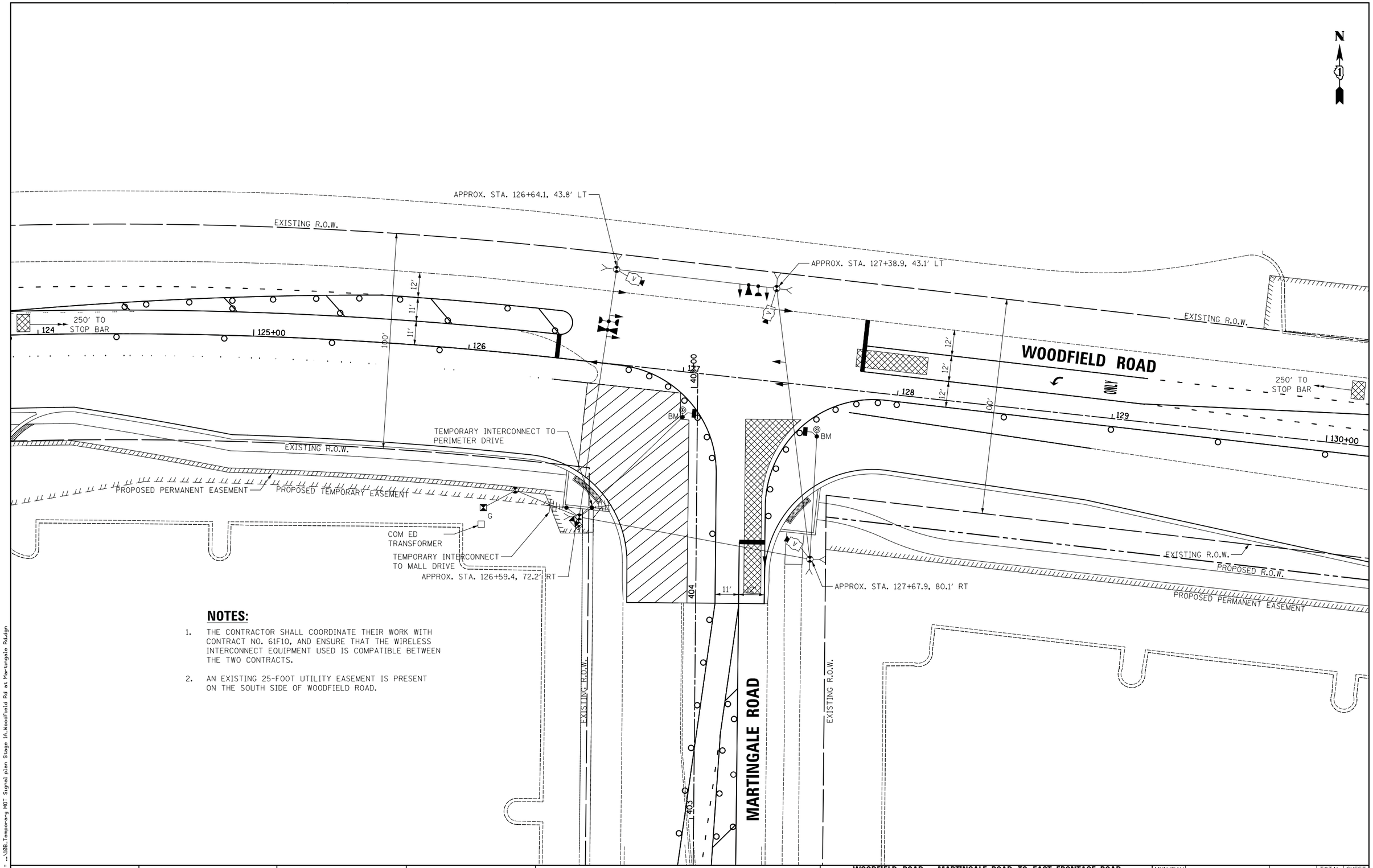
USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY SIGNAL PLAN – STAGE 1
WOODFIELD ROAD AND MARTINGALE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	138
		CONTRACT NO. 61F09		
	ILLINOIS	FED. AID PROJECT		



NOTES:

1. THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH CONTRACT NO. 61F10, AND ENSURE THAT THE WIRELESS INTERCONNECT EQUIPMENT USED IS COMPATIBLE BETWEEN THE TWO CONTRACTS.
2. AN EXISTING 25-FOOT UTILITY EASEMENT IS PRESENT ON THE SOUTH SIDE OF WOODFIELD ROAD.

FILE NAME = ...\108_Temporary MOT Signal plan Stage 1A_Woodfield Rd at Martingale Rd.dgn

CIVILTECH

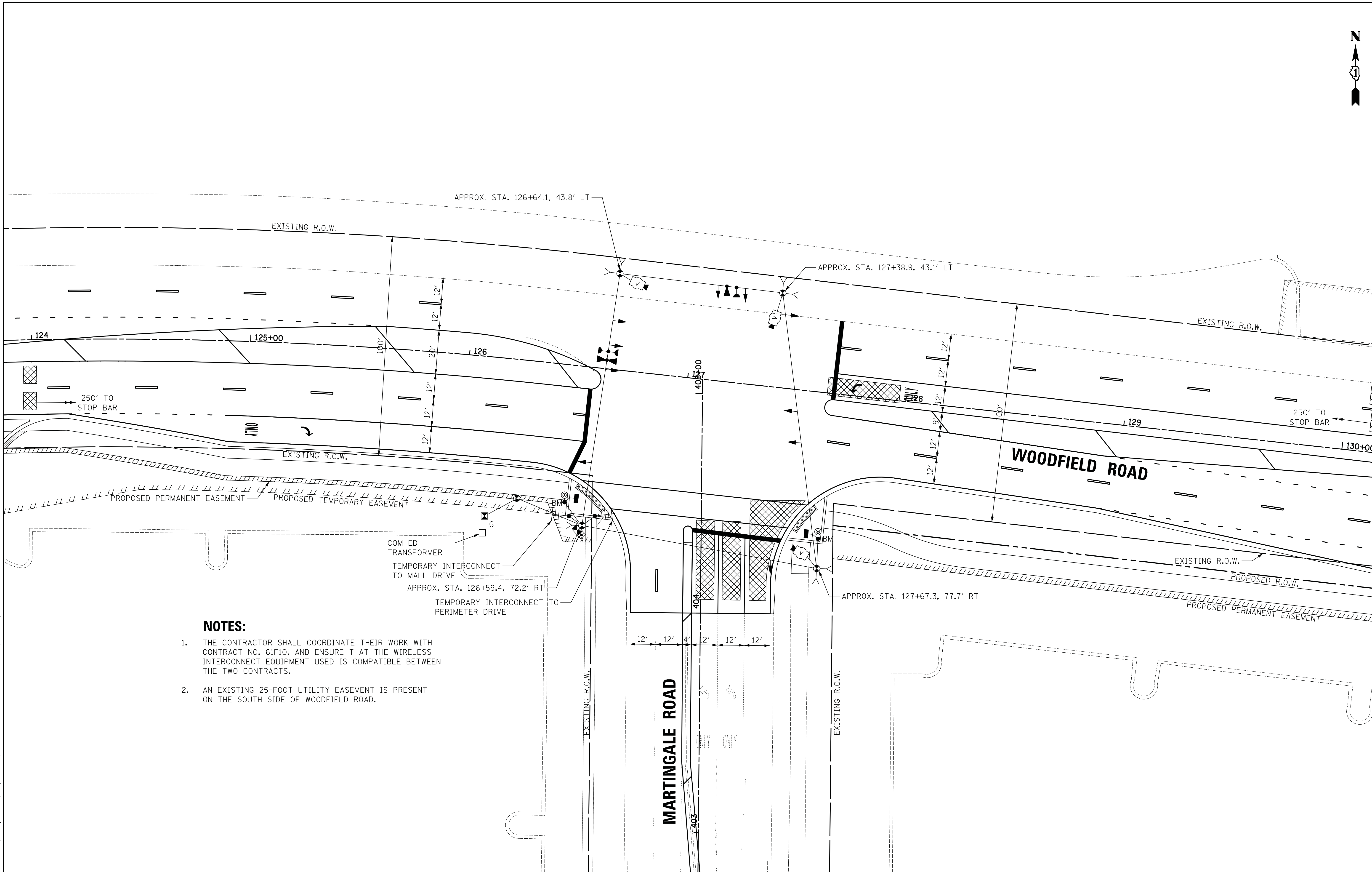
USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY SIGNAL PLAN – STAGE 1A
WOODFIELD ROAD AND MARTINGALE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	139
		CONTRACT NO. 61F09		
	ILLINOIS	FED. AID PROJECT		



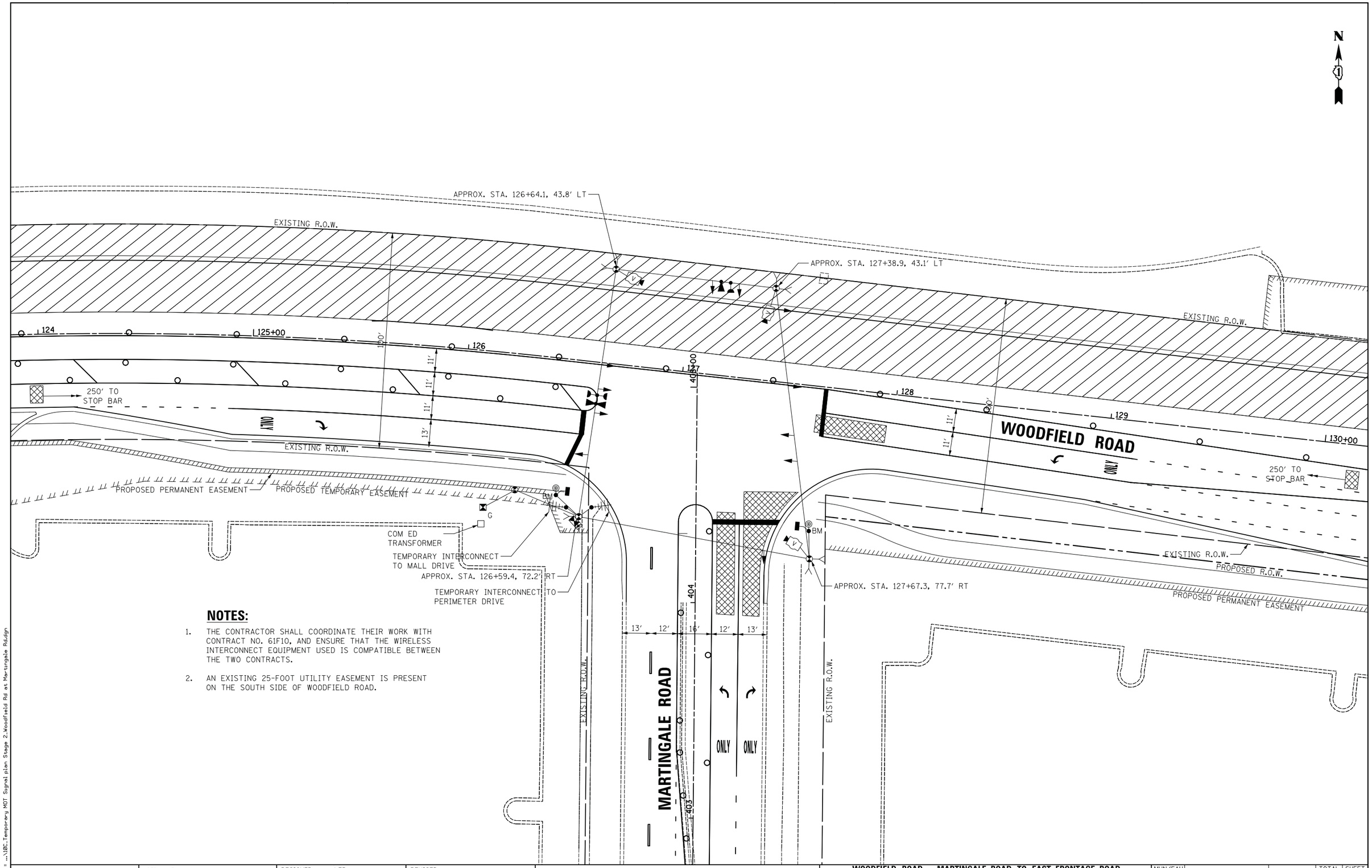
NOTES:

1. THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH CONTRACT NO. 61F10, AND ENSURE THAT THE WIRELESS INTERCONNECT EQUIPMENT USED IS COMPATIBLE BETWEEN THE TWO CONTRACTS.

2. AN EXISTING 25-FOOT UTILITY EASEMENT IS PRESENT ON THE SOUTH SIDE OF WOODFIELD ROAD.

CIVILTECH	USER NAME = djk	DESIGNED - LEP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD	MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - OJT	REVISED -		TEMPORARY SIGNAL PLAN – STAGE 1 WINTER	3073/ 1689	14-00114-01-PV	COOK	282 / 140
	PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -		WOODFIELD ROAD AND MARTINGALE ROAD			CONTRACT NO. 61F09	
	PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -		SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT		

FILE NAME = ...\GDCA_Temporary MOT Signal plan Stage 2 Winter_Woodfield Rd at Martingale Rd.dgn



NOTES:

1. THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH CONTRACT NO. 61F10, AND ENSURE THAT THE WIRELESS INTERCONNECT EQUIPMENT USED IS COMPATIBLE BETWEEN THE TWO CONTRACTS.

2. AN EXISTING 25-FOOT UTILITY EASEMENT IS PRESENT ON THE SOUTH SIDE OF WOODFIELD ROAD.

FILE NAME = ...\10C_Temporary MOT Signal plan Stage 2_Woodfield Rd at Martingale Rd.dgn

CIVILTECH

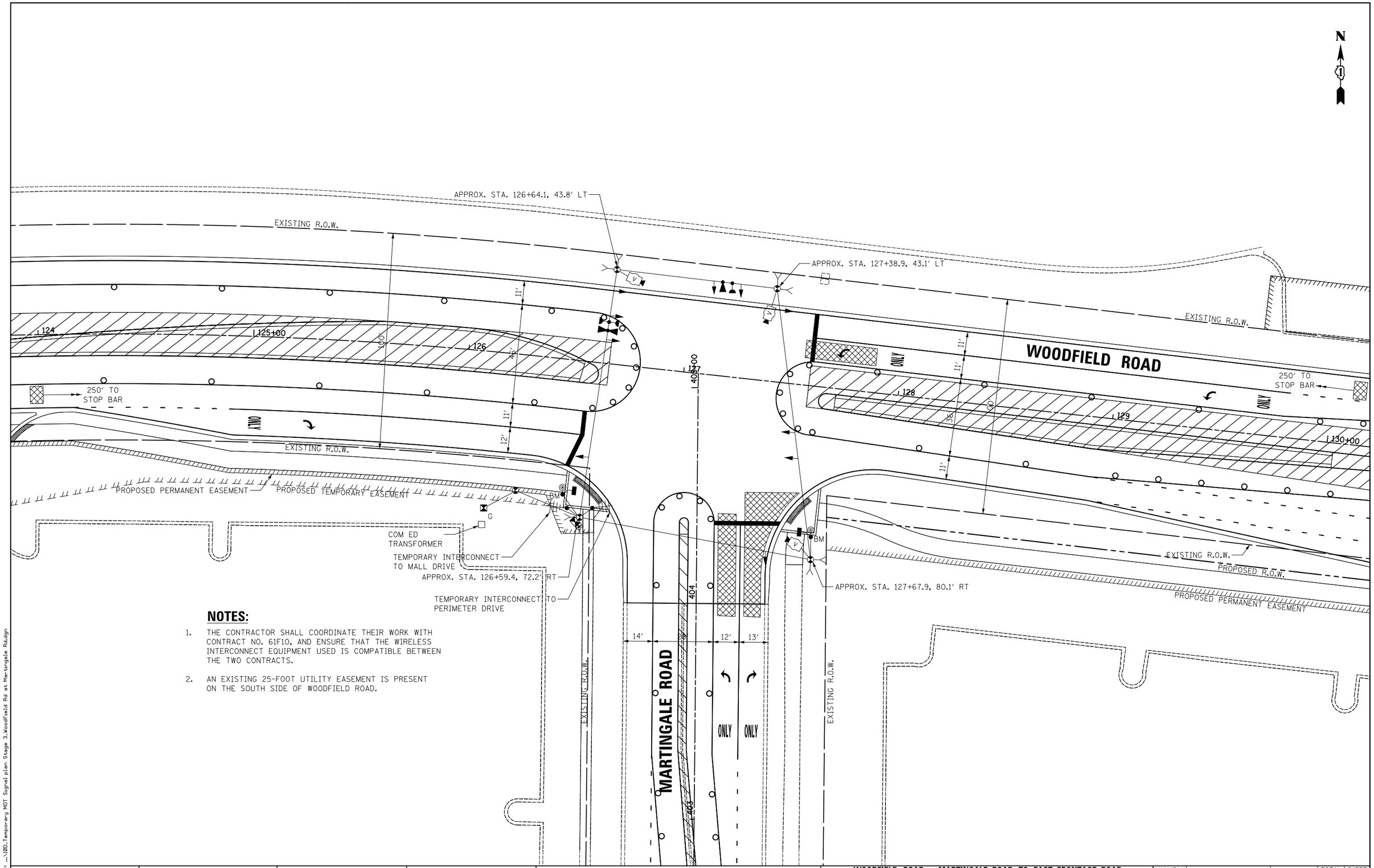
USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY SIGNAL PLAN – STAGE 2
WOODFIELD ROAD AND MARTINGALE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	141
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH CONTRACT NO. 61F10, AND ENSURE THAT THE WIRELESS INTERCONNECT EQUIPMENT USED IS COMPATIBLE BETWEEN THE TWO CONTRACTS.
2. AN EXISTING 25-FOOT UTILITY EASEMENT IS PRESENT ON THE SOUTH SIDE OF WOODFIELD ROAD.

FILE NAME = ...\TBD.Temporary MOT Signal plan Stage 3.Woodfield Rd at Martingale Rd.dgn

CIVILTECH

USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

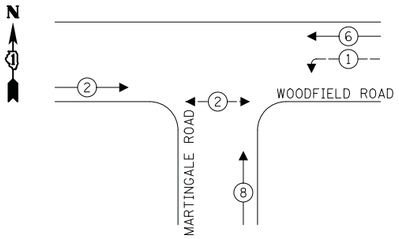
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY SIGNAL PLAN – STAGE 3
WOODFIELD ROAD AND MARTINGALE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	142
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			

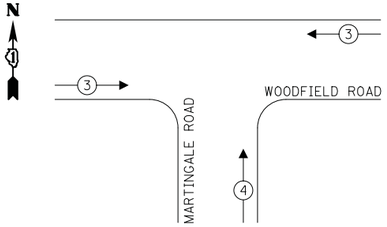
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

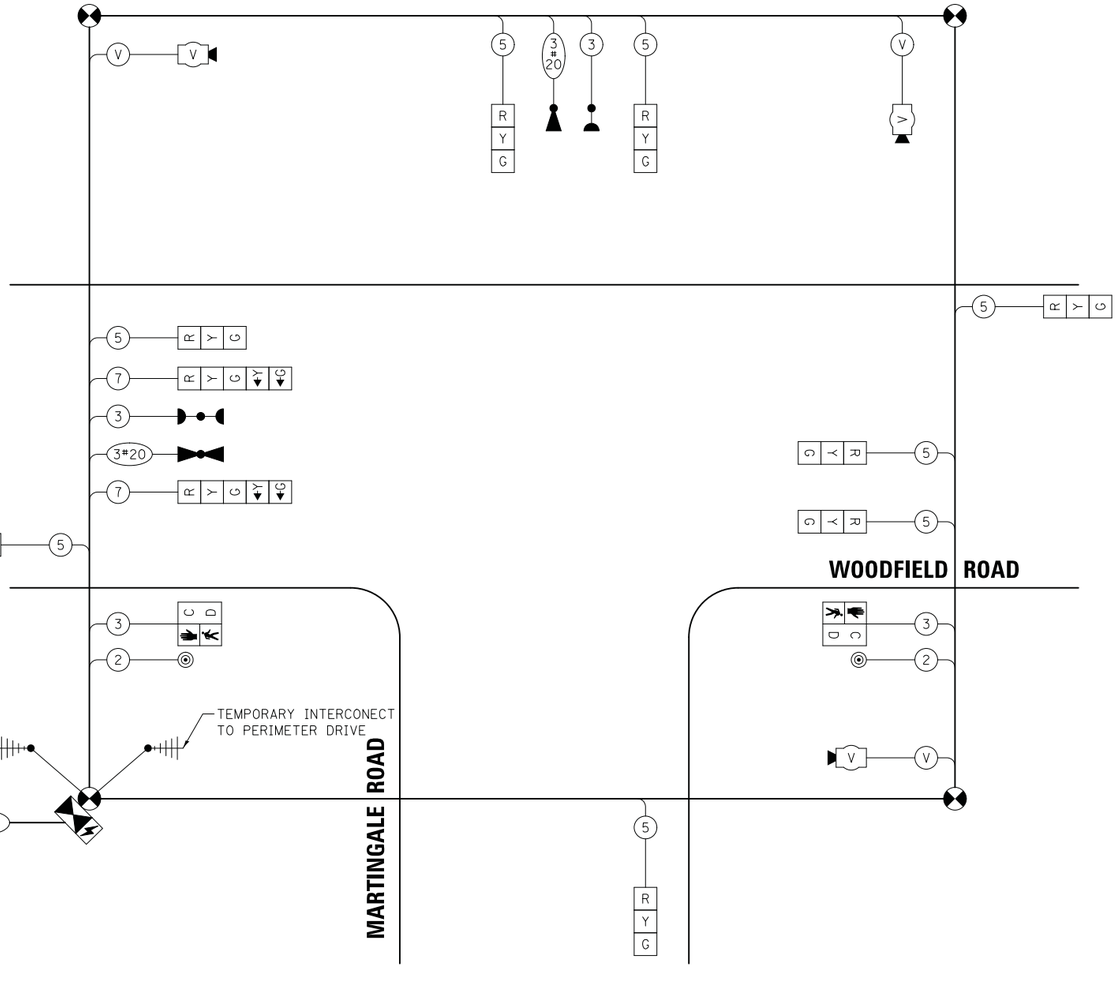
- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



NOTES:

1. THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH CONTRACT NO. 61F10, AND ENSURE THAT THE WIRELESS INTERCONNECT EQUIPMENT USED IN COMPATIBLE BETWEEN THE TWO CONTRACTS.



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55.0
(YELLOW)	10	20	5	10.0
(GREEN)	10	12	45	54.0
PROT-PERM ARROW	4	10	10	4.0
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	438.0

ENERGY COSTS TO:

VILLAGE OF SCHAUMBURG
101 SCHAUMBURG COURT
SCHAUMBURG, IL 60193

ENERGY SUPPLY: CONTACT: TRACY WASH
PHONE: (630) 691-4691
COMPANY: COMED
ACCOUNT NUMBER: 0245068017

FILE NAME = ...\11.Temporary Cable and Sequences_Woodfield Rd at Martingale Rd.dgn

CIVILTECH

USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY CABLE PLAN AND SEQUENCES
WOODFIELD ROAD AND MARTINGALE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	143
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			

NOTES:

1. THE CONCRETE FOUNDATIONS FOR COMBINATION MAST ARM ASSEMBLIES AND POLES THAT INCLUDE STREET LIGHTING SHALL PROVIDE TWO (2) EXTRA 3" RACEWAYS.
2. ALL COMBINATION MAST ARM ASSEMBLIES & POLES SHALL INCLUDE ONE OR TWO LUMINAIRE ARM(S) AS SHOWN ON THE PLANS. THE LUMINAIRE ARMS SHALL BE 15 FEET IN LENGTH AND AT A MOUNTING HEIGHT OF 45 FEET. SEE THE LIGHTING PLANS FOR MORE INFORMATION.
3. ALL MAST ARM ASSEMBLIES AND POLES AND TRAFFIC SIGNAL POSTS SHALL BE POWDER COATED BLACK.
4. AN EXISTING 25-FOOT UTILITY EASEMENT IS PRESENT ON THE SOUTH SIDE OF WOODFIELD ROAD.

R3-5R
30"x36"
(TYP.)
SIGN PANEL
TYPE I (SPECIAL)
1 REQUIRED

FILE NAME = ...\12_Traffic signal modernization plan_Woodfield Rd at Martingale Rd.dgn

CIVILTECH	USER NAME = djk	DESIGNED - LEP	REVISED -
		DRAWN - OJT	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

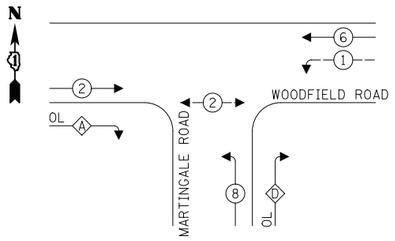
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TRAFFIC SIGNAL MODERNIZATION PLAN
WOODFIELD ROAD AND MARTINGALE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	144
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			

PROPOSED CONTROLLER SEQUENCE



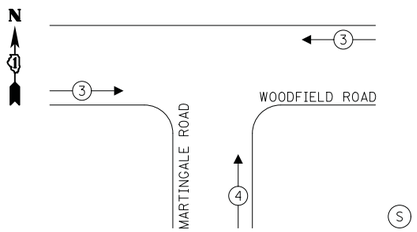
LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

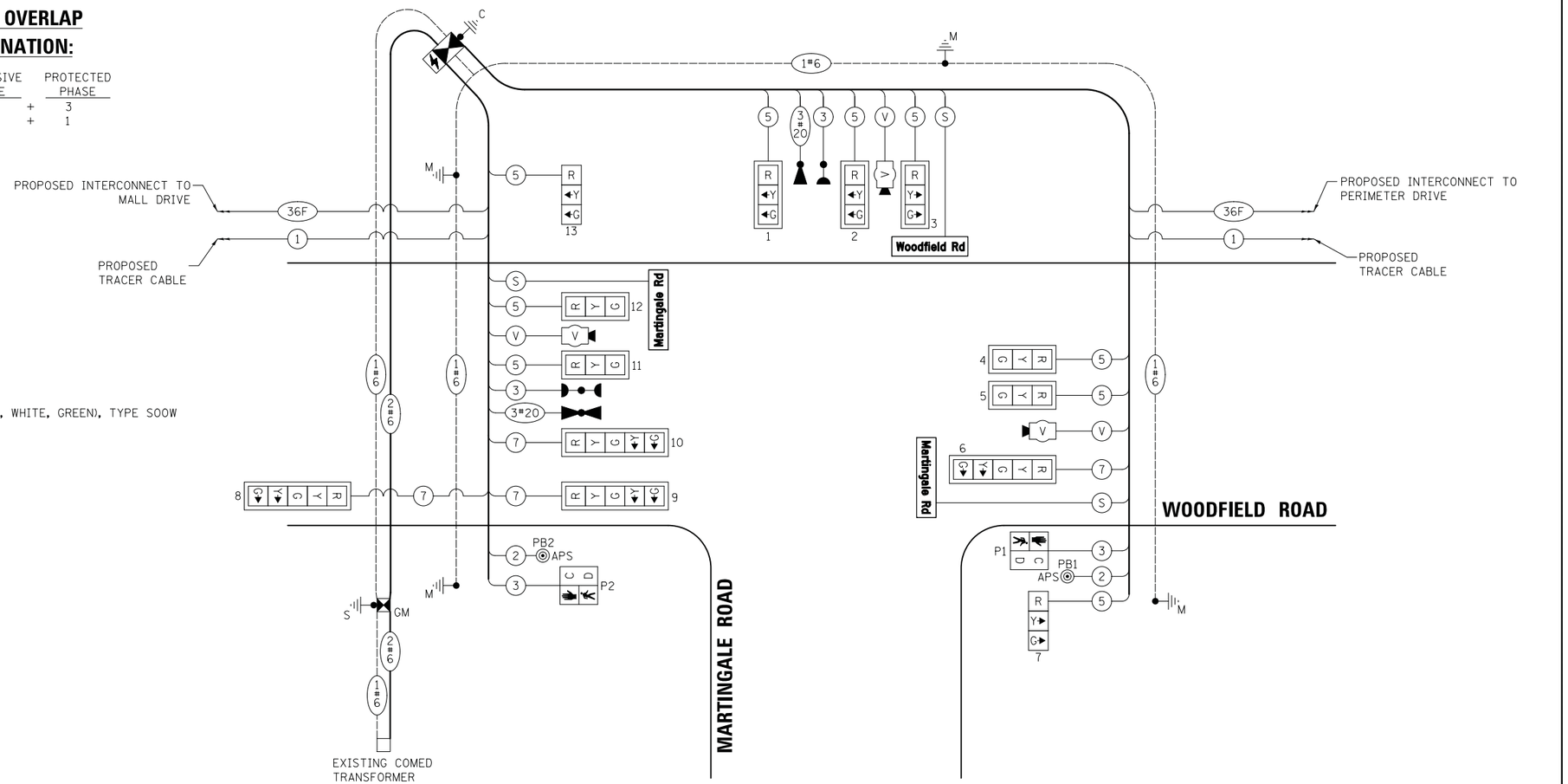
OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
D	=	8	+	1

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

(S) NO. 14 3/C (BLACK, WHITE, GREEN), TYPE SOOW



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	71.5
(YELLOW)	13	20	5	13.0
(GREEN)	13	12	45	70.2
PROT-PERM ARROW	8	10	10	8.0
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	3	120	50	180.0
LUMINAIRE	-	-	-	-
			TOTAL =	657.7

ENERGY COSTS TO:

VILLAGE OF SCHAUMBURG
101 SCHAUMBURG COURT
SCHAUMBURG, IL 60193

ENERGY SUPPLY: CONTACT: TRACY WASH
PHONE: (630) 691-4691
COMPANY: COMED
ACCOUNT NUMBER: 0245068017

FILE NAME = ...\13_Proposed Cable and Sequences_Woodfield Rd at Martingale Rdgn

CIVILTECH

USER NAME = djk	DESIGNED - LEP	REVISED -	
	DRAWN - OJT	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
CABLE PLAN AND SEQUENCES
WOODFIELD ROAD AND MARTINGALE ROAD

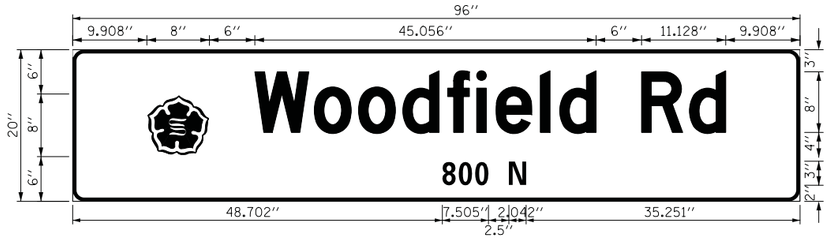
SCALE: NO SCALE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	145
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	127
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	26
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	337
HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	2
PAINT NEW MAST ARM AND POLE, UNDER 40 FOOT	EACH	1
PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FOOT	EACH	1
PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	2
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	417
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	740
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1724
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	766
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	157
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	625
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	14
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	36
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	11
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	9
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	305
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	3
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
SIGN PANEL - TYPE 1 (SPECIAL)	SQ FT	8
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
VIDEO DETECTION SYSTEM COMPLETE INTERSECTION	EACH	1
CABLE, SPECIAL	FOOT	542
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	13.3	LED SNS	ZZ	2 (TWO SIDED)



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	13.3	LED SNS	ZZ	1 (ONE SIDED)

FILE NAME = ...\14-SDD and SNS_Woodfield Rd at Martingdale Rd.dgn

CIVILTECH

USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
SCHEDULE OF QUANTITIES AND ILLUMINATED STREET NAME SIGNS
WOODFIELD ROAD AND MARTINGALE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	146
		CONTRACT NO. 61F09		
	ILLINOIS	FED. AID PROJECT		

REMOVAL NOTES:

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

1	EACH	CONTROLLER AND CABINET, COMPLETE
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE
6	EACH	TRAFFIC SIGNAL POST
9	EACH	3-SECTION SIGNAL HEAD
4	EACH	5-SECTION SIGNAL HEAD
5	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	SERVICE INSTALLATION

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE VILLAGE OF SCHAUMBURG. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICKUP OF ALL EQUIPMENT TO BE RETURNED TO THE VILLAGE AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFER

(A)

R3-2
36" X 36"
SIGN PANEL - TYPE 1
1 REQUIRED

FILE NAME = ...\15_Temporary Traffic signal Installation and Removal plan_Woodfield Rd at East Entrance.dgn

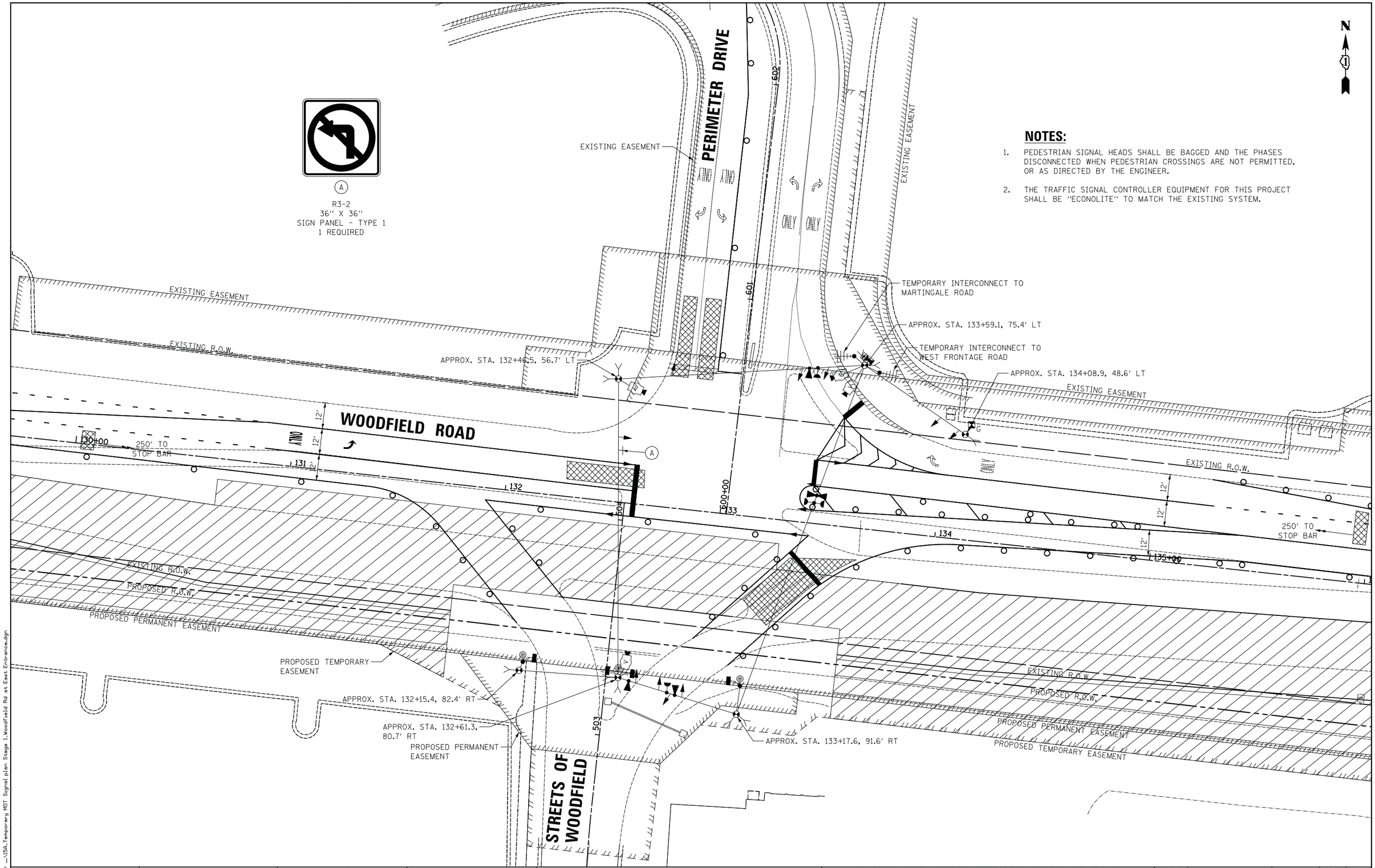
CIVILTECH	USER NAME = djk	DESIGNED - LEP	REVISED -
		DRAWN - OJT	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
WOODFIELD ROAD AND PERIMETER DRIVE

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	147
		CONTRACT NO. 61F09		
		ILLINOIS	FED. AID PROJECT	



NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND THE PHASES DISCONNECTED WHEN PEDESTRIAN CROSSINGS ARE NOT PERMITTED, OR AS DIRECTED BY THE ENGINEER.
2. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING SYSTEM.

FILE NAME = ...\15A-Temporary MOT Signal plan Stage 1_Woodfield Rd at East Entrance.dgn

CIVILTECH

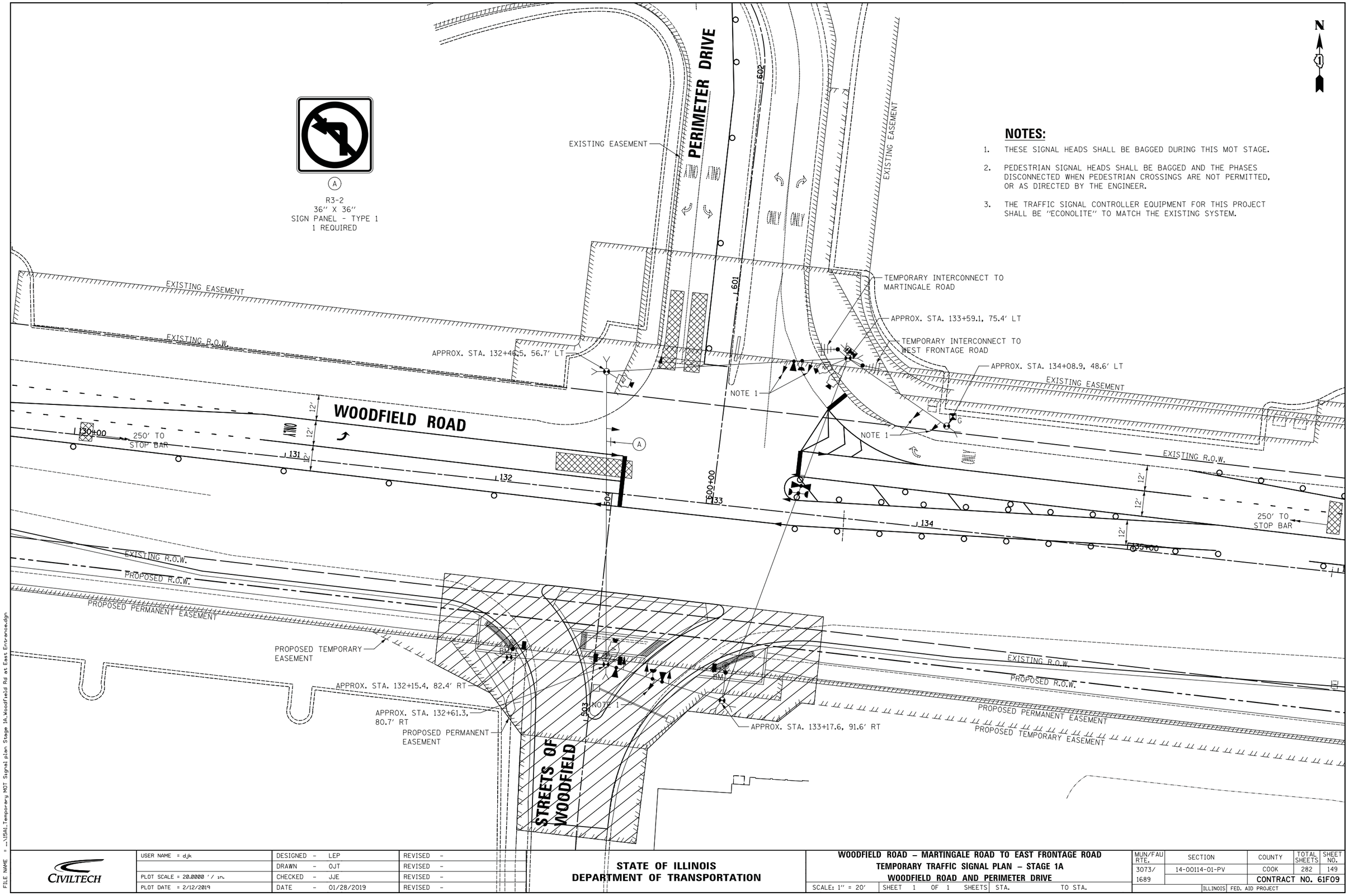
USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY TRAFFIC SIGNAL PLAN – STAGE 1
WOODFIELD ROAD AND PERIMETER DRIVE

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	148
		CONTRACT NO. 61F09		
	ILLINOIS	FED. AID PROJECT		



NOTES:

1. THESE SIGNAL HEADS SHALL BE BAGGED DURING THIS MOT STAGE.
2. PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND THE PHASES DISCONNECTED WHEN PEDESTRIAN CROSSINGS ARE NOT PERMITTED, OR AS DIRECTED BY THE ENGINEER.
3. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING SYSTEM.

FILE NAME = ...\1541_Temporary MOT Signal plan Stage 1A_Woodfield Rd at East Entrance.dgn

CIVILTECH

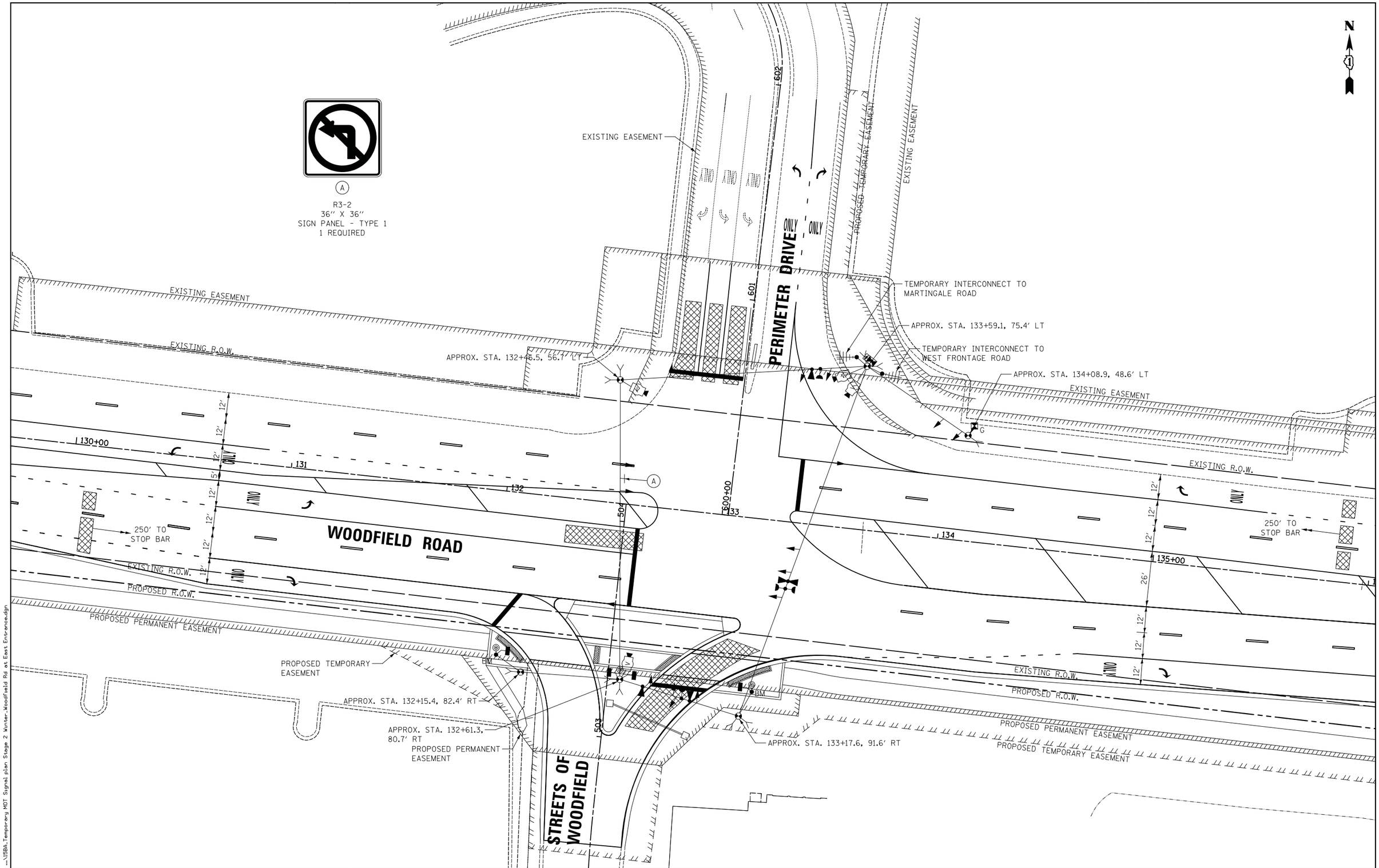
USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY TRAFFIC SIGNAL PLAN – STAGE 1A
WOODFIELD ROAD AND PERIMETER DRIVE

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	149
		CONTRACT NO. 61F09		
ILLINOIS	FED. AID PROJECT			



FILE NAME = ...\VBA_Temporary MOT Signal plan Stage 2 Winter_Woodfield Rd at East Entrance.dgn

CIVILTECH

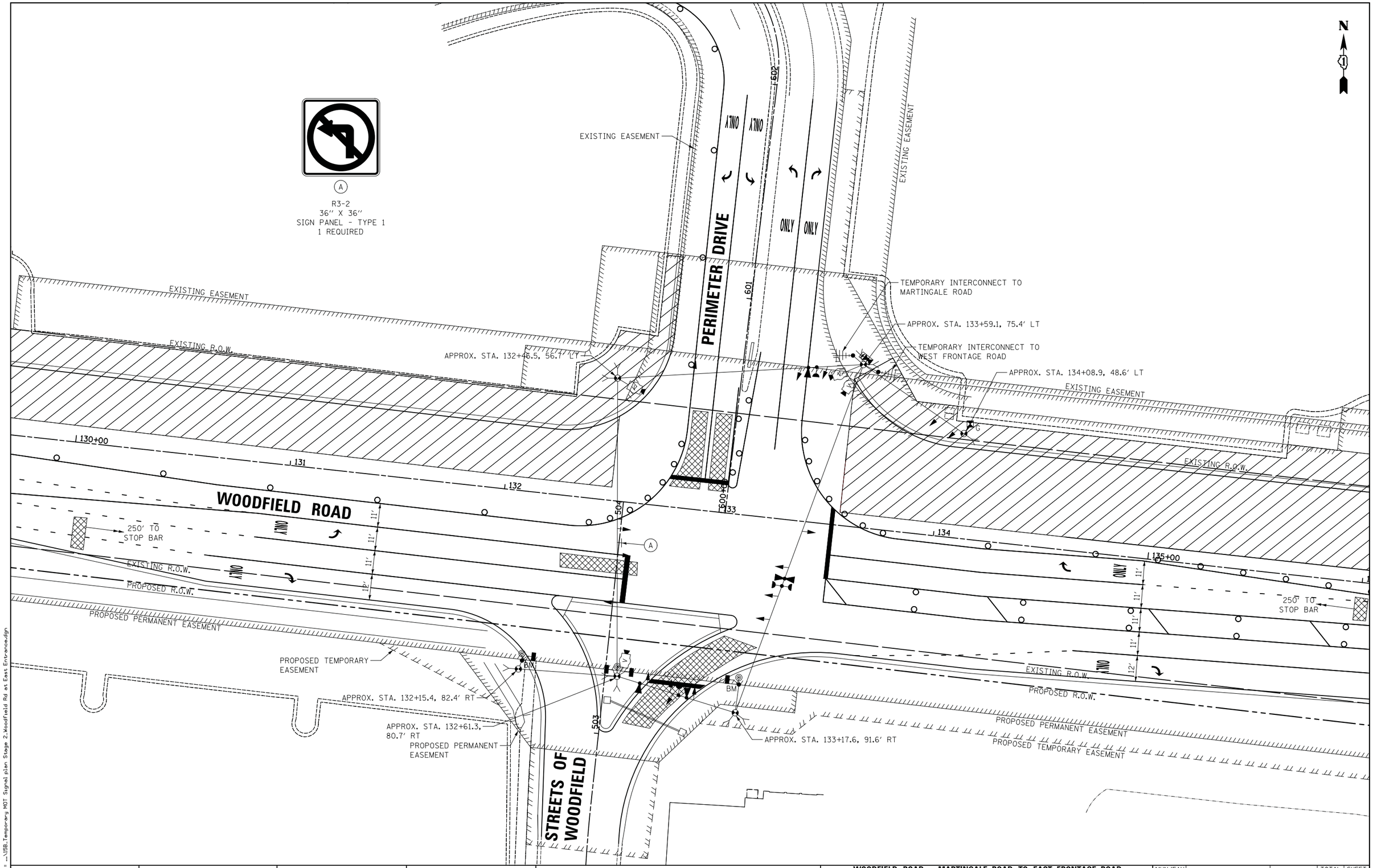
USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY TRAFFIC SIGNAL PLAN – STAGE 1 WINTER
WOODFIELD ROAD AND PERIMETER DRIVE

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	150
		CONTRACT NO. 61F09		
ILLINOIS	FED. AID PROJECT			



FILE NAME = ...\158_Temporary MOT Signal plan Stage 2_Woodfield Rd at East Entrance.dgn

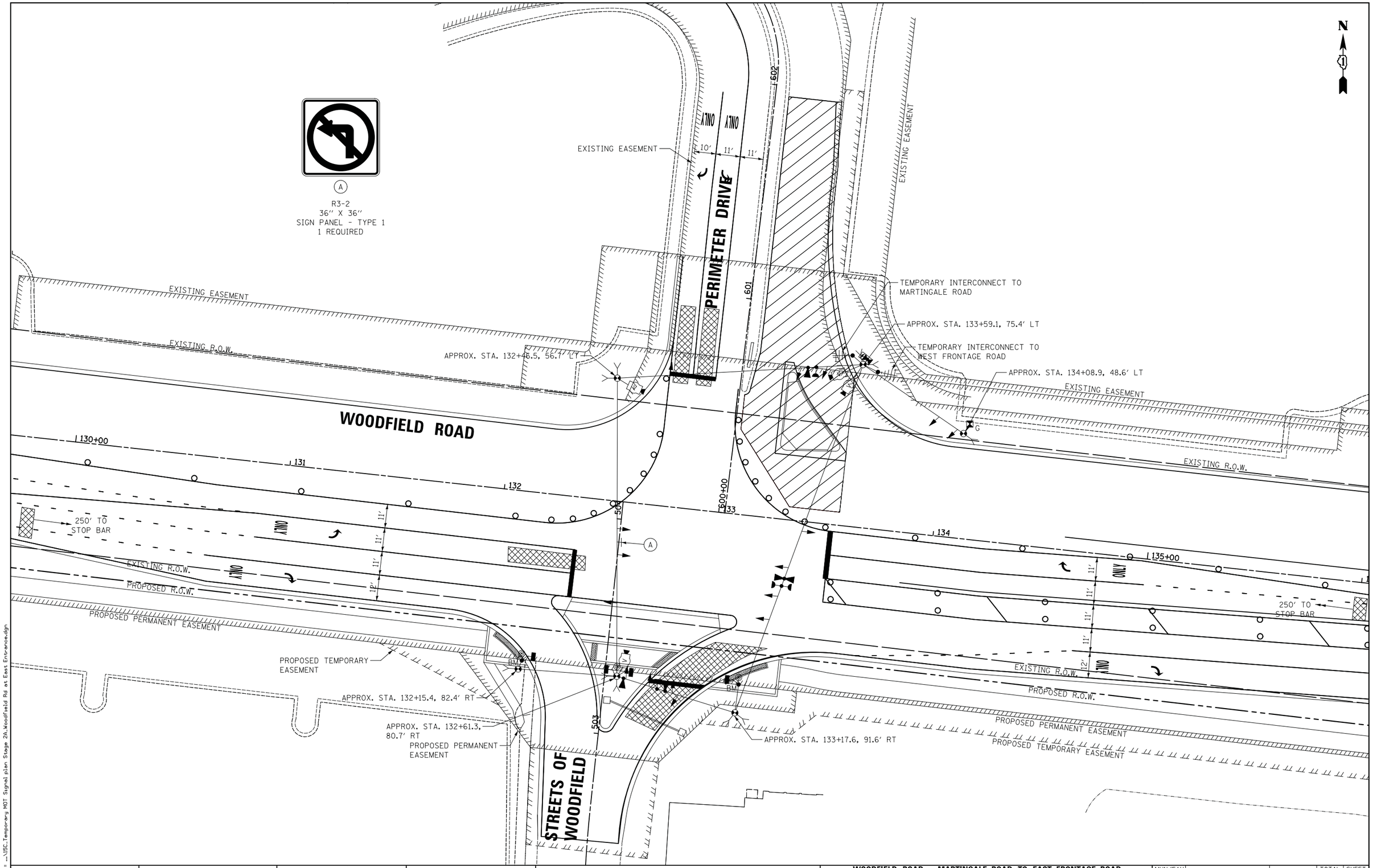
CIVILTECH	USER NAME = d.jk	DESIGNED - LEP	REVISED -
		DRAWN - OJT	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY TRAFFIC SIGNAL PLAN – STAGE 2
WOODFIELD ROAD AND PERIMETER DRIVE

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	151
		CONTRACT NO. 61F09		
ILLINOIS	FED. AID PROJECT			



FILE NAME = ...\15C_Temporary MOT Signal plan Stage 2A_Woodfield Rd at East Entrance.dgn

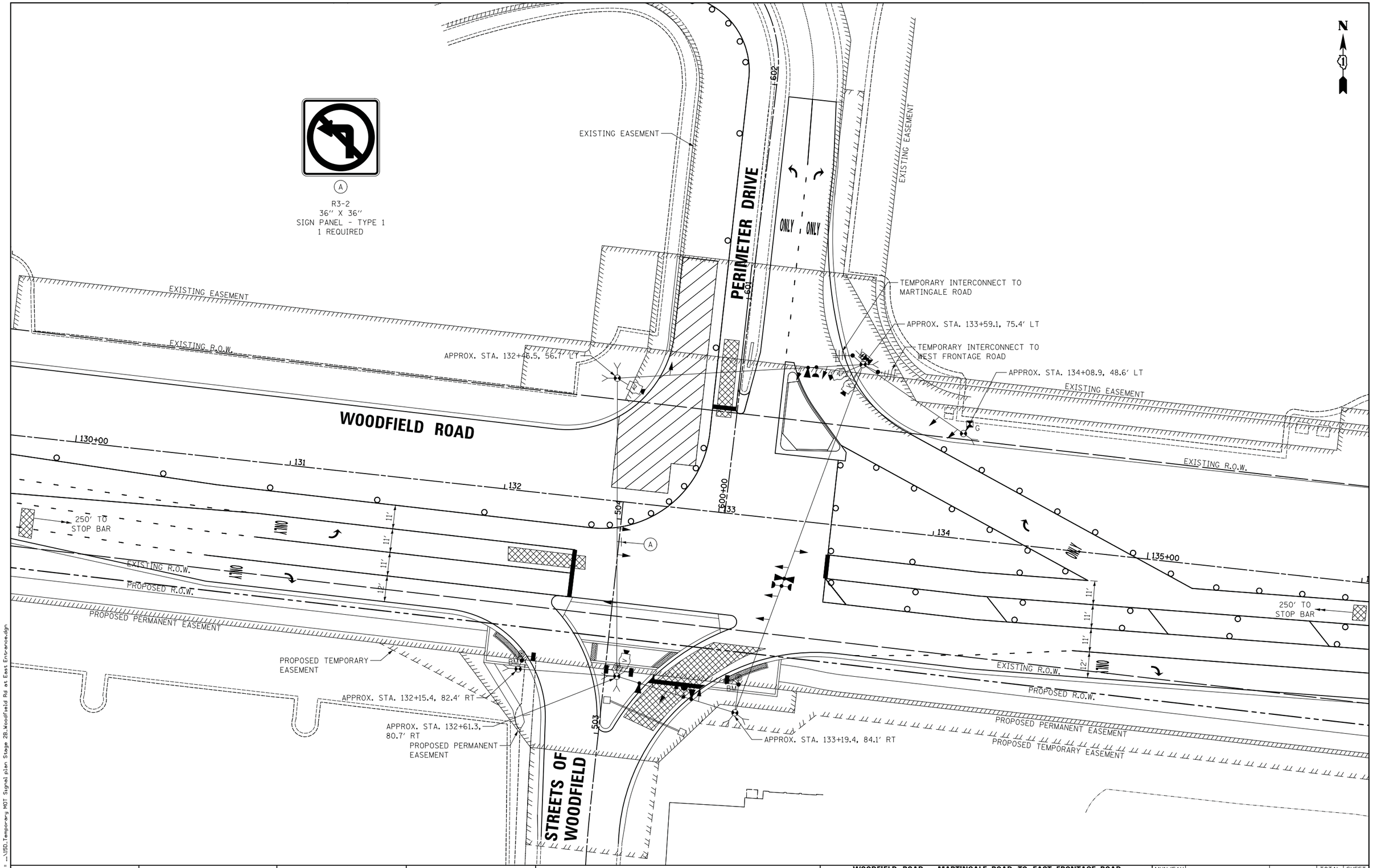
CIVILTECH	USER NAME = djk	DESIGNED - LEP	REVISED -
		DRAWN - OJT	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY TRAFFIC SIGNAL PLAN – STAGE 2A
WOODFIELD ROAD AND PERIMETER DRIVE

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	152
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			



FILE NAME = ...\150_Temporary MDT Signal plan Stage 2B_Woodfield Rd at East Entrance.dgn

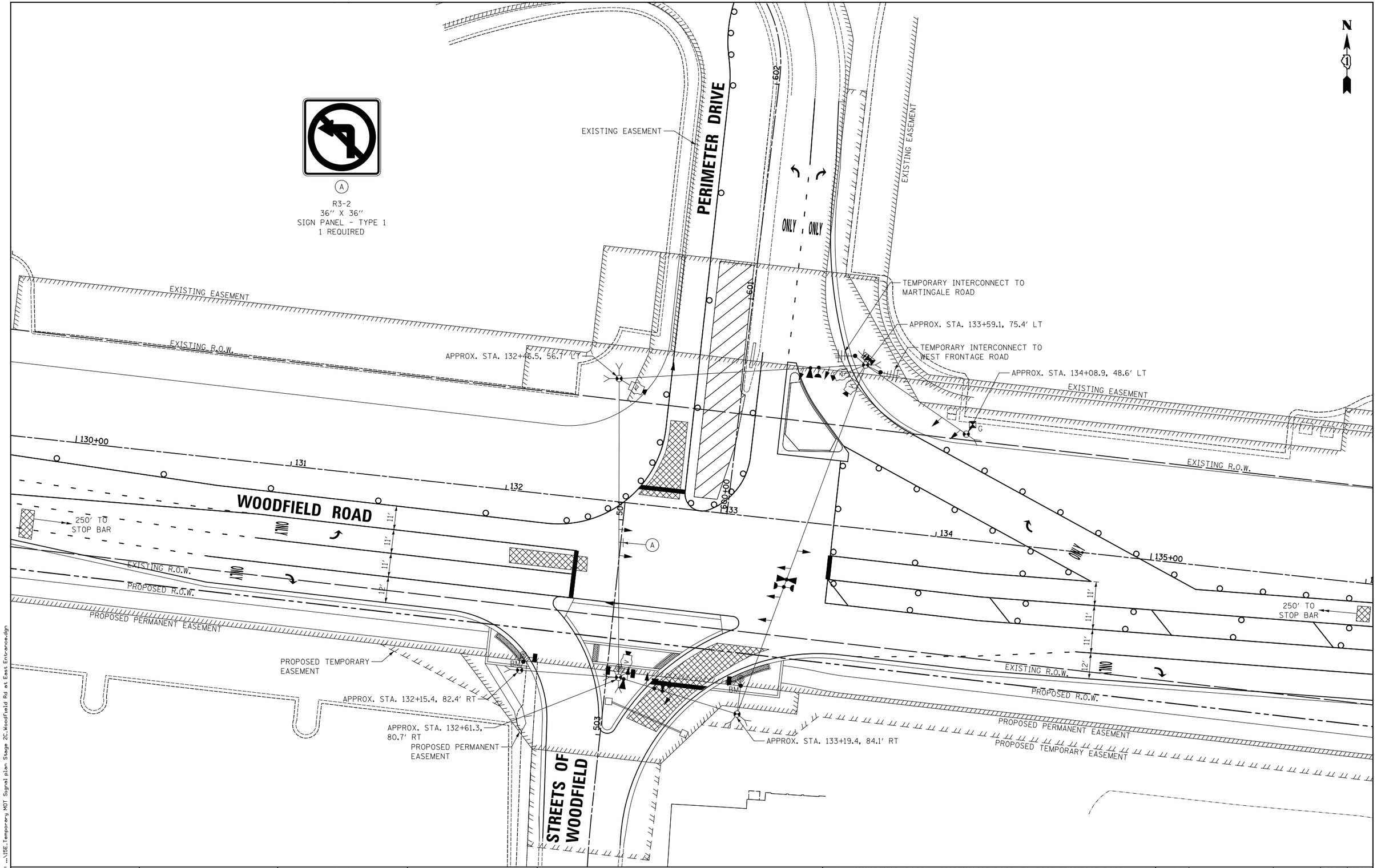
CIVILTECH	USER NAME = djk	DESIGNED - LEP	REVISED -
		DRAWN - OJT	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY TRAFFIC SIGNAL PLAN – STAGE 2B
WOODFIELD ROAD AND PERIMETER DRIVE

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	153
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			



FILE NAME = ...\15E.Temporary MOT Signal plan Stage 2C.Woodfield Rd at East Entrance.dgn

CIVILTECH

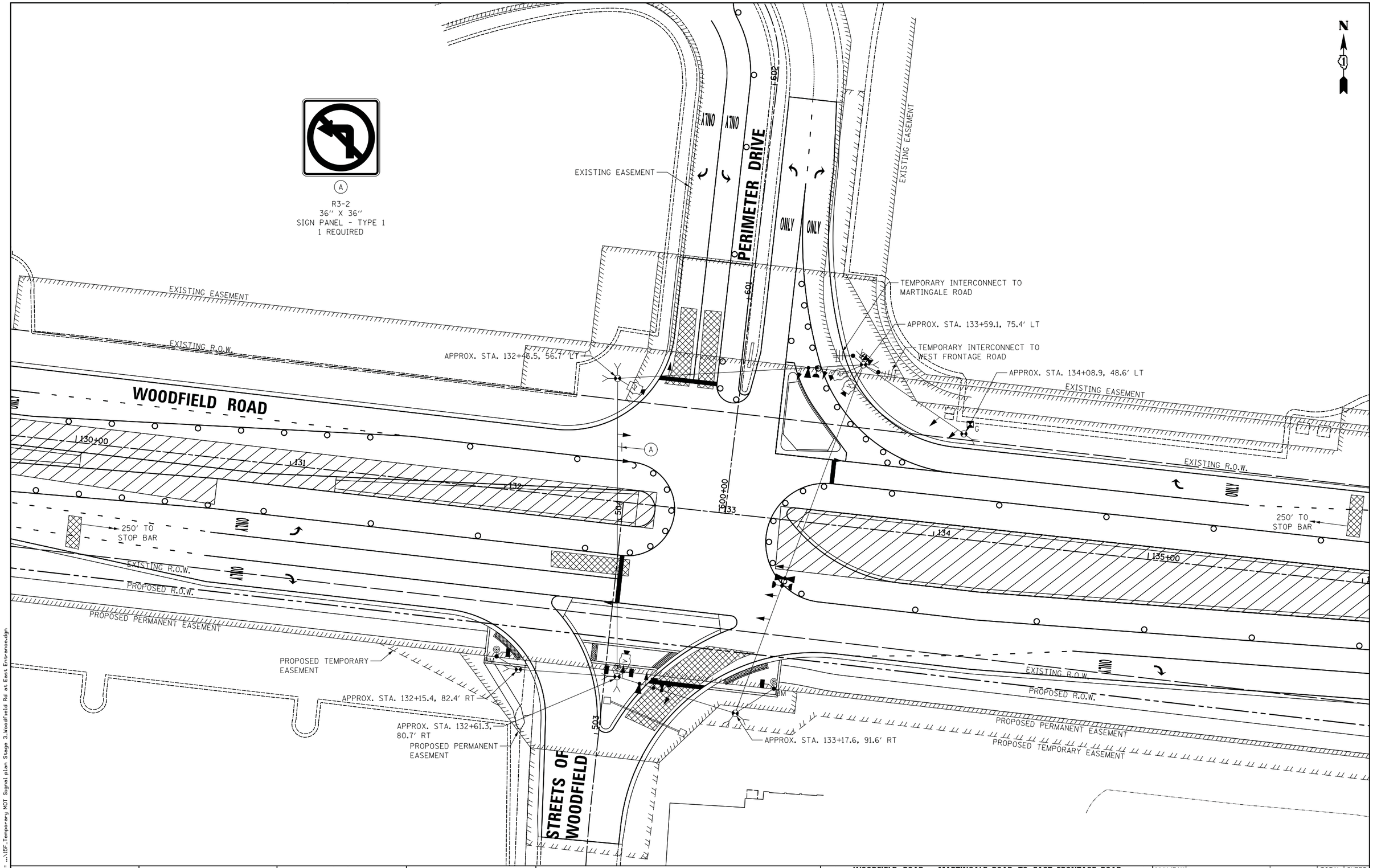
USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY TRAFFIC SIGNAL PLAN – STAGE 2C
WOODFIELD ROAD AND PERIMETER DRIVE

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	154
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			



FILE NAME = ...\15F_Temporary MOT Signal plan Stage 3_Woodfield Rd at East Entrance.dgn

CIVILTECH

USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

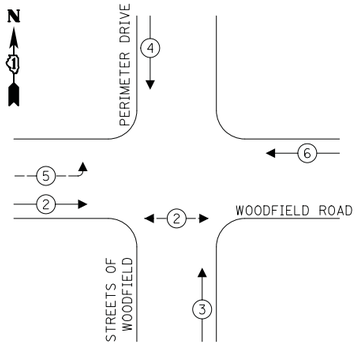
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY TRAFFIC SIGNAL PLAN – STAGE 3
WOODFIELD ROAD AND PERIMETER DRIVE

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	155
		CONTRACT NO. 61F09		
		ILLINOIS	FED. AID PROJECT	

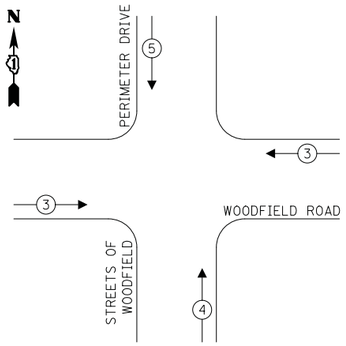
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OVERLAP (OL)

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



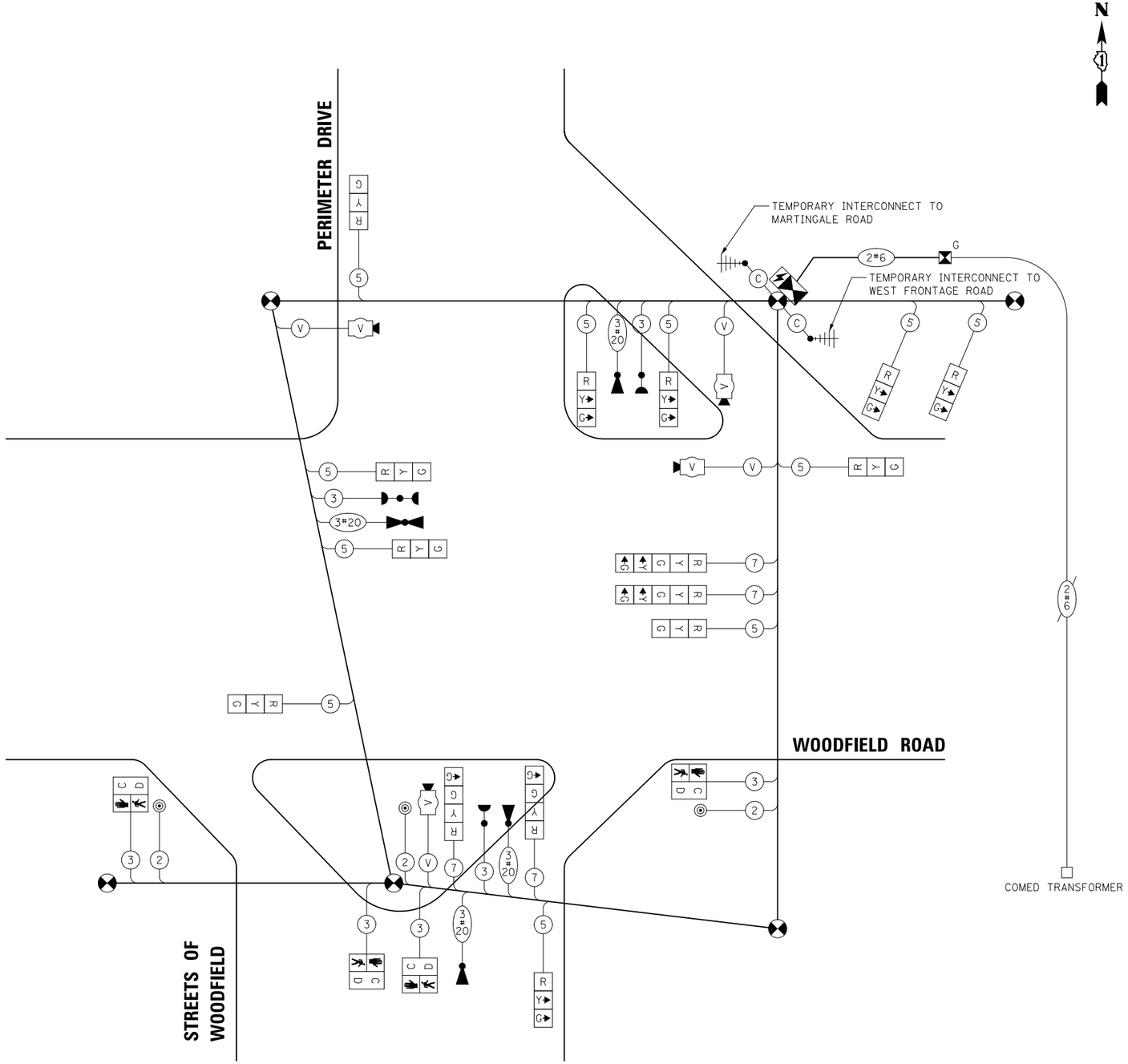
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	77.0
(YELLOW)	14	20	5	14.0
(GREEN)	16	12	45	86.4
PROT-PERM ARROW	4	10	10	4.0
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	536.4

ENERGY COSTS TO:

VILLAGE OF SCHAUMBURG
101 SCHAUMBURG COURT
SCHAUMBURG, IL 60193

ENERGY SUPPLY: CONTACT: TRACY WASH
PHONE: (630) 691-4691
COMPANY: COMED
ACCOUNT NUMBER: 0245068017



FILE NAME = ...\16_Temporary Cable and Sequences_Woodfield Rd at East Entrance.dgn

CIVILTECH

USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - LEP	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

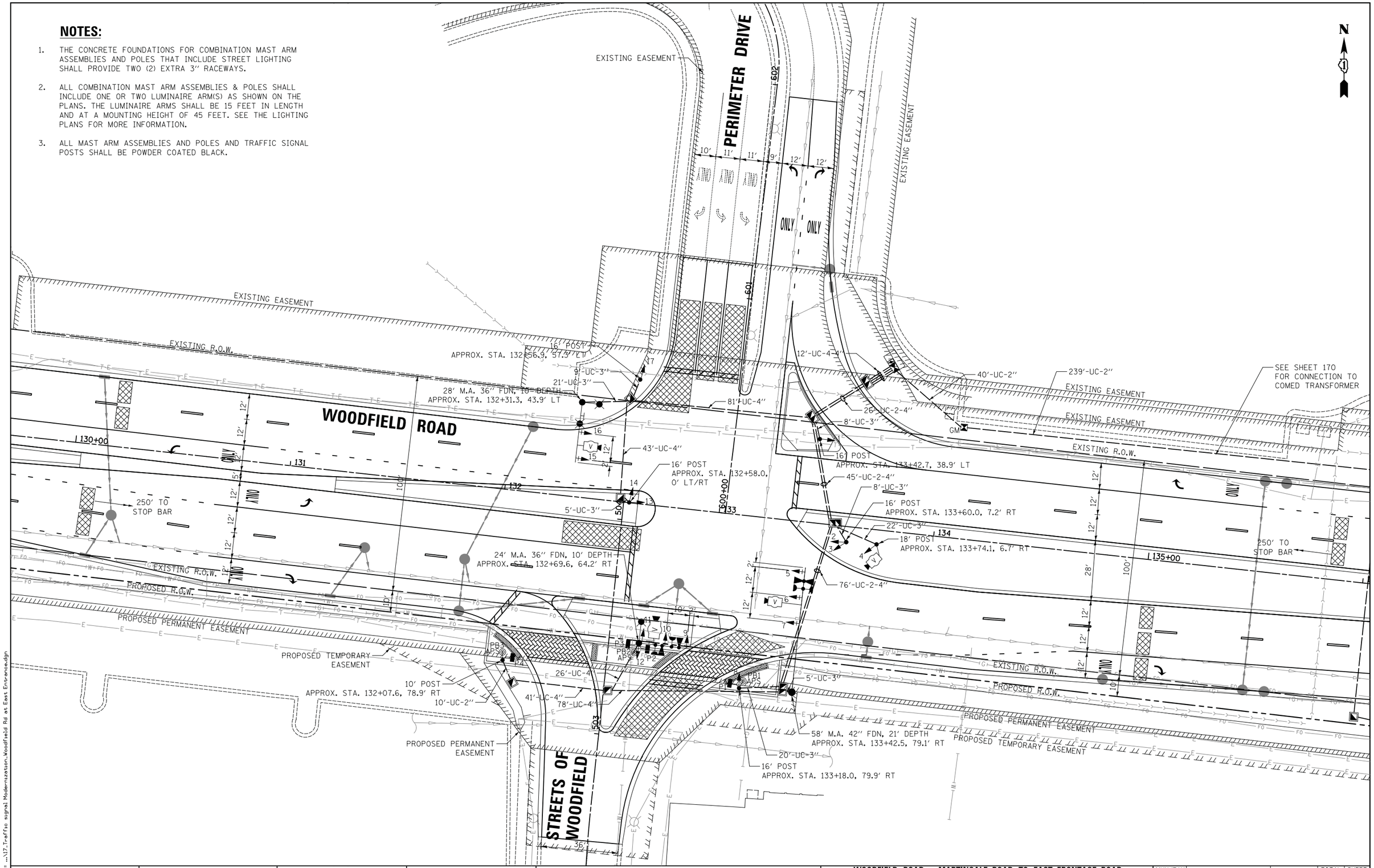
WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY CABLE PLAN AND SEQUENCES
WOODFIELD ROAD AND PERIMETER DRIVE

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	156
		CONTRACT NO. 61F09		
	ILLINOIS	FED. AID PROJECT		

NOTES:

1. THE CONCRETE FOUNDATIONS FOR COMBINATION MAST ARM ASSEMBLIES AND POLES THAT INCLUDE STREET LIGHTING SHALL PROVIDE TWO (2) EXTRA 3" RACEWAYS.
2. ALL COMBINATION MAST ARM ASSEMBLIES & POLES SHALL INCLUDE ONE OR TWO LUMINAIRE ARM(S) AS SHOWN ON THE PLANS. THE LUMINAIRE ARMS SHALL BE 15 FEET IN LENGTH AND AT A MOUNTING HEIGHT OF 45 FEET. SEE THE LIGHTING PLANS FOR MORE INFORMATION.
3. ALL MAST ARM ASSEMBLIES AND POLES AND TRAFFIC SIGNAL POSTS SHALL BE POWDER COATED BLACK.



FILE NAME = ...\17_Traffic signal Modernization_Woodfield Rd at East Entrance.dgn

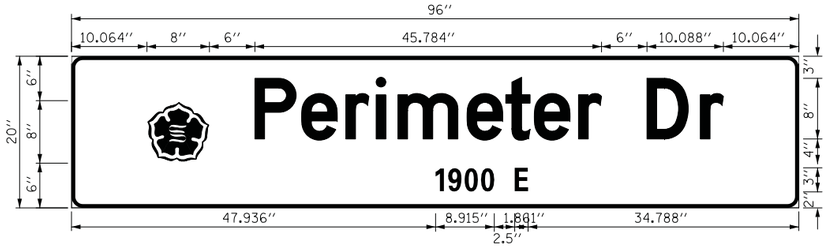
CIVILTECH	USER NAME = djk	DESIGNED - LEP	REVISED -
		DRAWN - OJT	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

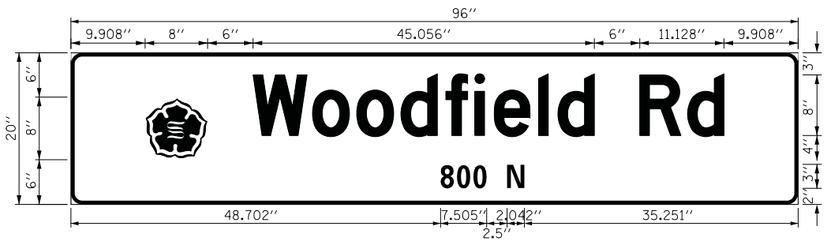
WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TRAFFIC SIGNAL MODERNIZATION PLAN
WOODFIELD ROAD AND PERIMETER DRIVE

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	157
		CONTRACT NO. 61F09		
ILLINOIS FED. AID PROJECT				



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12	LED SNS	ZZ	1 (TWO SIDED)



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12	LED SNS	ZZ	1 (TWO SIDED)

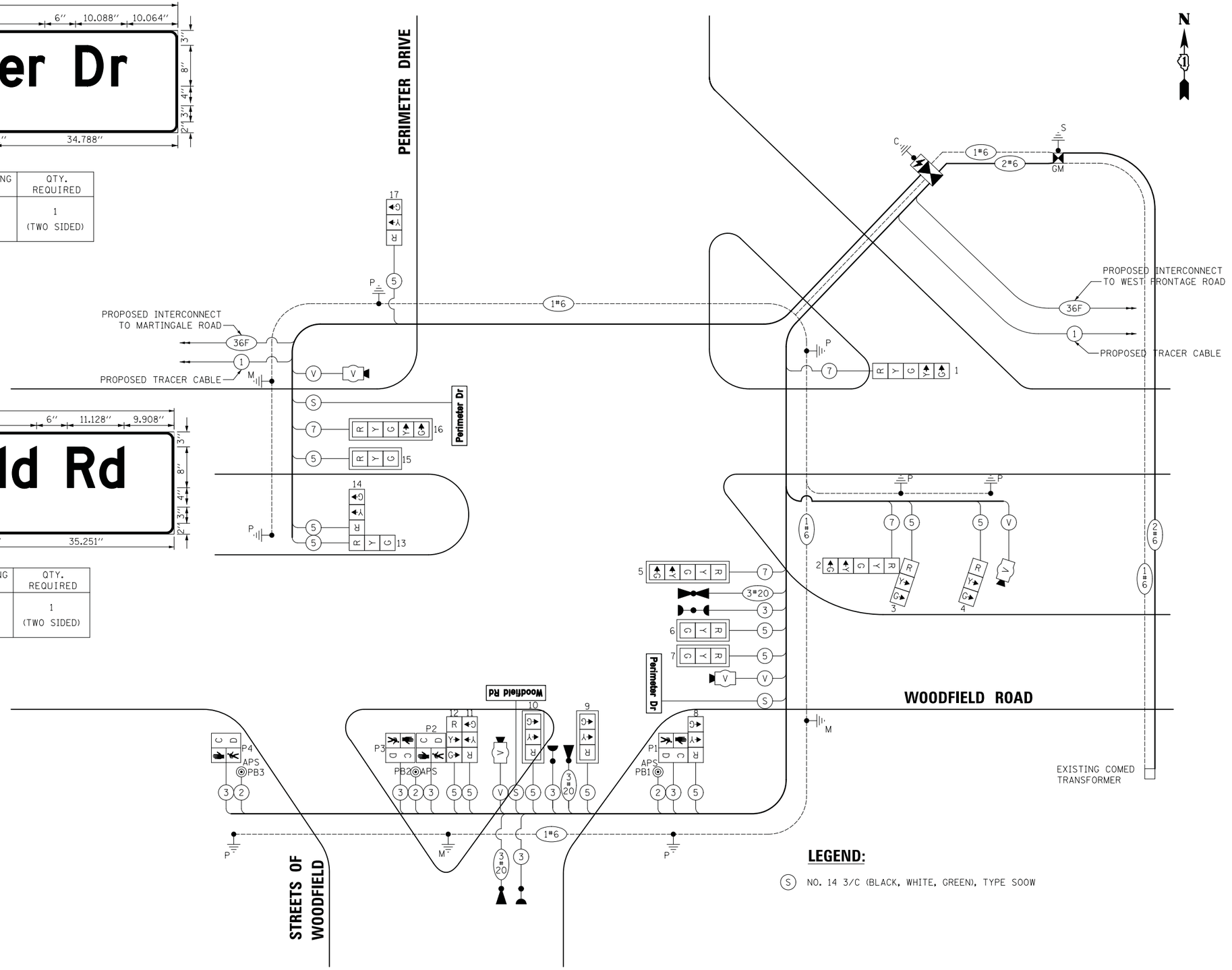
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	17	11	50	93.5
(YELLOW)	17	20	5	17.0
(GREEN)	17	12	45	91.8
PROT-PERM ARROW	4	10	10	4.0
PERMANENT ARROW	2	10	100	20.0
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	3	120	50	180.0
LUMINAIRE	-	-	-	-
			TOTAL =	761.3

ENERGY COSTS TO:

VILLAGE OF SCHAUMBURG
101 SCHAUMBURG COURT
SCHAUMBURG, IL 60193

ENERGY SUPPLY: CONTACT: TRACY WASH
PHONE: (630) 691-4691
COMPANY: COMED
ACCOUNT NUMBER: 0245068017



LEGEND:

(S) NO. 14 3/C (BLACK, WHITE, GREEN), TYPE SOOW

FILE NAME = ...\18.Cable Plan and Sequences_Woodfield Rd at East Entrance.dgn

CIVILTECH	USER NAME = djk	DESIGNED - LEP	REVISED -
		DRAWN - OJT	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
CABLE PLAN AND MAST ARM MOUNTED STREET NAME SIGNS
WOODFIELD ROAD AND PERIMETER DRIVE

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	158
		CONTRACT NO. 61F09		
		ILLINOIS	FED. AID PROJECT	

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	289
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	98
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	611
HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	4
PAINT NEW TRAFFIC SIGNAL POST	EACH	7
PAINT NEW MAST ARM AND POLE, 40 FOOT AND OVER	EACH	1
PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FOOT	EACH	2
TRANSCEIVER - FIBER OPTIC	EACH	1
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	952
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2347
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3432
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	765
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	427
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1389
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	5
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 58 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 24 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	32
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	20
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
DRILL EXISTING HANDHOLE	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	7
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	13
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1030
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	3
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	3
VIDEO DETECTION SYSTEM COMPLETE INTERSECTION	EACH	1
CABLE, SPECIAL	FOOT	833
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

PROPOSED SEQUENCE OF OPERATION

MOVEMENT (N)		B, FF, 5, 2, P2			FF, 6, 2, P2				B, 7, FF, P2						FF, 6, 8					FLASH
PHASE		2 + 5			2 + 6				7						6 + 8					
INTERVAL		1	2	3	4	5	6A	6B	7	8	9A	9B	10A	10B	11	12A	12B	13A	13B	
CHANGE TO		θ	θ	2 + 6			7 6 + 8				2 + 5		2 + 6 6 + 8			2 + 5		2 + 6		
WOODFIELD ROAD (SIGNALS 2 & 5) MEDIAN SIGNAL AND LEFT MAST ARM SIGNAL	EB	G ←G	G ←G	G ←Y	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R
WOODFIELD ROAD (SIGNALS 6 & 7) CENTER AND RIGHT MAST ARM SIGNALS	EB	G	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R
WOODFIELD ROAD (SIGNALS 13 & 15) MEDIAN SIGNAL AND LEFT MAST ARM SIGNAL	WB	R	R	R	G	G	Y	R	R	R	R	R	R	R	G	Y	R	G	G	R
WOODFIELD ROAD (SIGNALS 1 & 16) RIGHT MAST ARM AND NEAR RIGHT SIGNALS	WB	R G→	R G→	R G→	G G→	G G→	Y G→	R G→	R G→	R G→	R G→	R G→	R G→	R G→	G G→	Y G→	R G→	G G→	G G→	R
STREETS OF WOODFIELD (SIGNALS 3, 4 & 12) ALL SIGNALS	NB	R	R	R	R	R	R	R	R	R	R	R	R	R	G→	Y→	R	Y→	R	R
PERIMETER DRIVE (SIGNALS 8, 9 & 10) LEFT AND RIGHT MAST ARM AND FAR LEFT SIGNALS	SB	R	R	R	R	R	R	R	←G	←G	←Y	R	←Y	R	R	R	R	R	R	R
PERIMETER DRIVE (SIGNALS 11, 14 & 17) FAR RIGHT, MEDIAN AND NEAR RIGHT SIGNALS	SB	G→	G→	Y→	R	R	R	R	G→	G→	G→	G→	Y→	R	R	R	R	R	R	R
PEDESTRIAN SIGNALS (P1, P2, P3, P4) CROSSING STREETS OF WOODFIELD - SOUTH LEG		P *	FH**	H	P*	FH**	H	H	P*	FH**	H	H	H	H	H	H	H	H	H	DARK

* TO APPEAR ONLY UPON PUSHBUTTON ACTUATION.

** FLASHING [hand] IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN CLEARANCE INTERVAL.

θ THIS [person] OR FLASHING [hand] INTERVAL MAY FINISH TIMING IN THE BIDRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE [person] OR FLASHING [hand] INTERVALS.

P = ILLUMINATED PERSON = WALK
FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK
H = ILLUMINATED SOLID HAND = DON'T WALK

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

																							PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 5	
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1		1			1			4	4			7				7	11		11		11				CLEAR TO NORMAL SEQUENCE
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	2	3	4	
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1B	2	1D	1E	3	1G	1H	4	2	1L	1M	3 OR 4	1P	1Q	2 OR 4	3	1T	2	1V	3	4				
WOODFIELD ROAD (SIGNALS 2 & 5) MEDIAN SIGNAL AND LEFT MAST ARM SIGNAL	EB	G ←G	G ←Y	G ←G	Y	R	G ←G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	G	R	R	◇
WOODFIELD ROAD (SIGNALS 6 & 7) CENTER AND RIGHT MAST ARM SIGNALS	EB	G	G	G	Y	R	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	G	R	R	◇
WOODFIELD ROAD (SIGNALS 13 & 15) MEDIAN SIGNAL AND LEFT MAST ARM SIGNAL	WB	R	R	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	G	G	Y	R	Y	G	R	R	◇
WOODFIELD ROAD (SIGNALS 1 & 16) RIGHT MAST ARM AND NEAR RIGHT SIGNALS	WB	R G→	R G→	R G→	R G→	R G→	R G→	R G→	R G→	G G→	G G→	Y G→	R G→	R G→	R G→	R G→	R G→	G G→	G G→	Y G→	R G→	Y G→	G G→	R G→	R G→	◇
STREETS OF WOODFIELD (SIGNALS 3, 4 & 12) ALL SIGNALS	NB	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y→	R	Y→	R	G→	R	R	G→	◇
PERIMETER DRIVE (SIGNALS 8, 9 & 10) LEFT AND RIGHT MAST ARM AND FAR LEFT SIGNALS	SB	R	R	R	R	R	R	R	R	R	R	R	R	←G	←Y	R	←G	R	R	R	R	R	R	←G	R	◇
PERIMETER DRIVE (SIGNALS 11, 14 & 17) FAR RIGHT, MEDIAN AND NEAR RIGHT SIGNALS	SB	G→	Y→	G→	G→	G→	G→	Y→	R	R	R	R	R	G→	Y→	R	G→	R	R	R	R	R	R	G→	R	◇
PEDESTRIAN SIGNALS (P1, P2, P3, P4) CROSSING STREETS OF WOODFIELD - SOUTH LEG		FH	H	FH	H	H	FH	H	H	FH	FH	H	H	FH	H	H	FH	H	H	H	H	H	H	H	H	◇

◇ EMERGENCY VEHICLE PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE PREEMPTION INTERVAL AFTER EMERGENCY VEHICLE PREEMPTION INTERVAL 2, 3, OR 4 IS TERMINATED.

P = ILLUMINATED PERSON = WALK
FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK
H = ILLUMINATED SOLID HAND = DON'T WALK

FILE NAME = ...\19_500 and SNS_Woodfield Rd at East Entrance.dgn

CIVILTECH	USER NAME = djk	DESIGNED - LEP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD SCHEDULE OF QUANTITIES AND SEQUENCES WOODFIELD ROAD AND PERIMETER DRIVE
		DRAWN - OJT	REVISED -		
	PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -		
	PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -		SCALE: NO SCALE / SHEET 1 OF 1 SHEETS / STA. / TO STA.

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	159
		CONTRACT NO. 61F09		
		ILLINOIS FED. AID PROJECT		

REMOVAL AND RELOCATION NOTES:

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

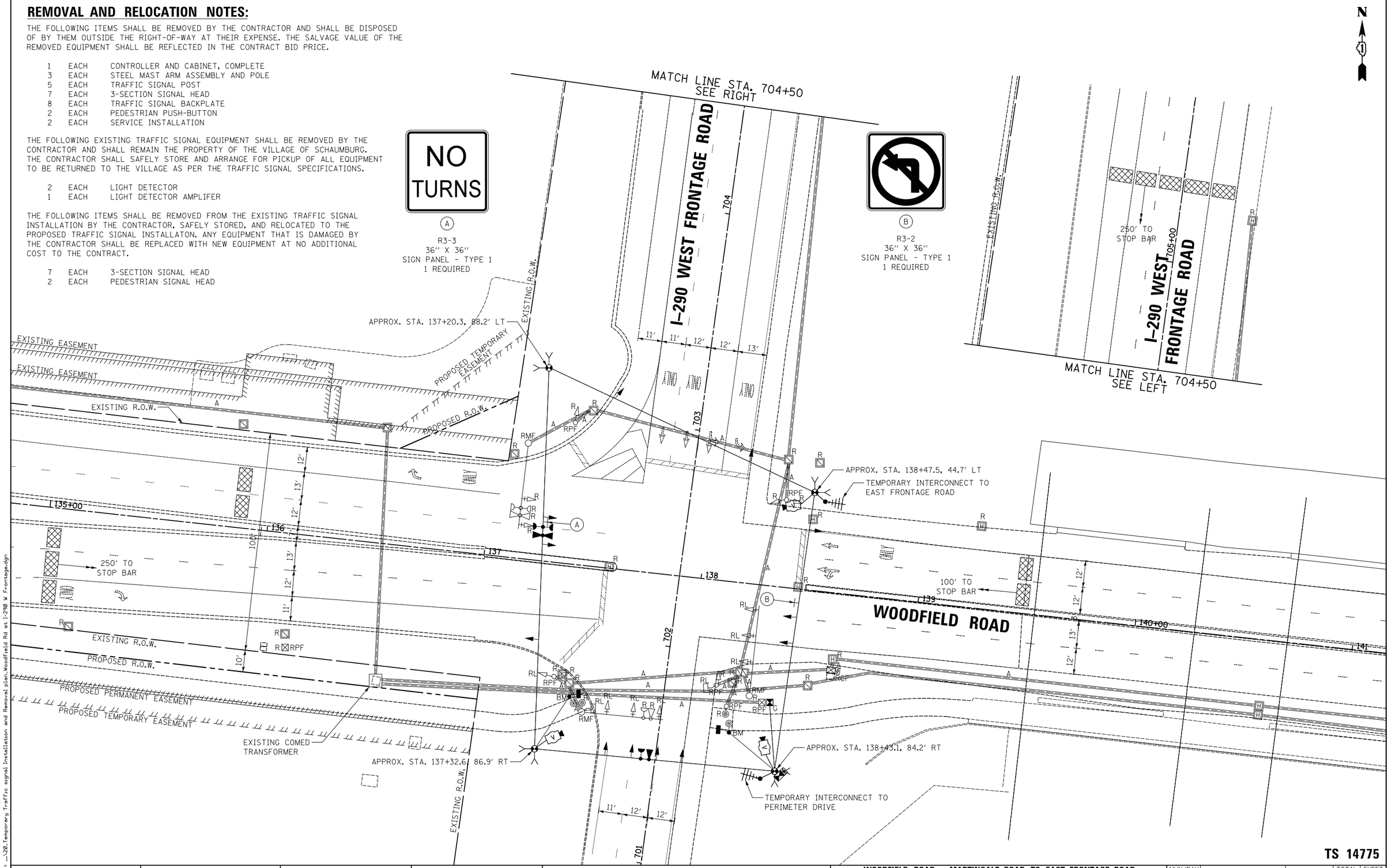
1	EACH	CONTROLLER AND CABINET, COMPLETE
3	EACH	STEEL MAST ARM ASSEMBLY AND POLE
5	EACH	TRAFFIC SIGNAL POST
7	EACH	3-SECTION SIGNAL HEAD
8	EACH	TRAFFIC SIGNAL BACKPLATE
2	EACH	PEDESTRIAN PUSH-BUTTON
2	EACH	SERVICE INSTALLATION

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE VILLAGE OF SCHAUMBURG. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICKUP OF ALL EQUIPMENT TO BE RETURNED TO THE VILLAGE AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFER

THE FOLLOWING ITEMS SHALL BE REMOVED FROM THE EXISTING TRAFFIC SIGNAL INSTALLATION BY THE CONTRACTOR, SAFELY STORED, AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL INSTALLATON. ANY EQUIPMENT THAT IS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED WITH NEW EQUIPMENT AT NO ADDITIONAL COST TO THE CONTRACT.

7	EACH	3-SECTION SIGNAL HEAD
2	EACH	PEDESTRIAN SIGNAL HEAD



TS 14775

FILE NAME = ...\20.Temporary Traffic signal installation and Removal plan_Woodfield Rd at I-290 W Frontage.dgn

CIVILTECH

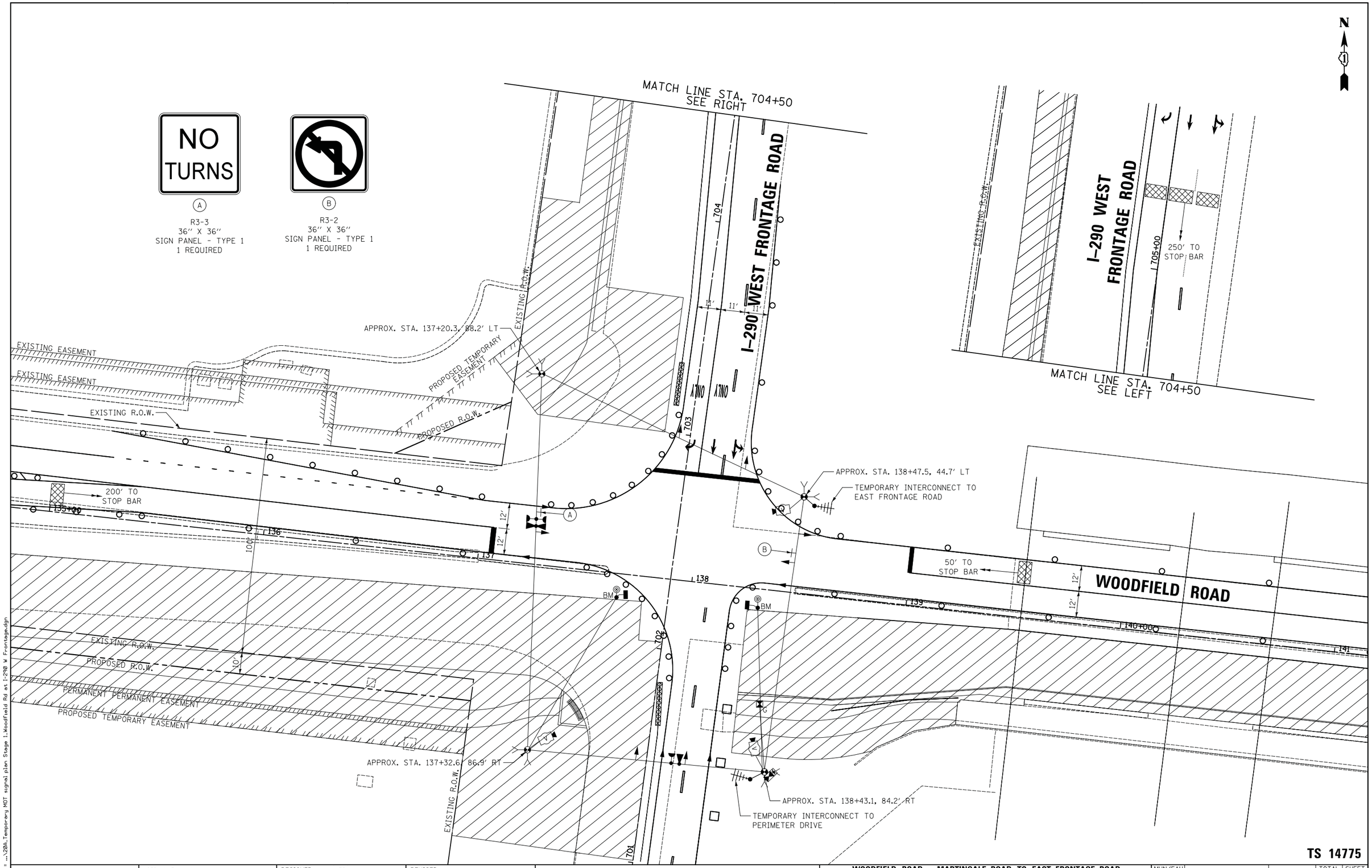
USER NAME = djk	DESIGNED - LEP	REVISED -	
	DRAWN - OJT	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
WOODFIELD ROAD AND I-290 WEST FRONTAGE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	160
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			



TS 14775

FILE NAME = ...\208_Temporary MOT signal plan Stage 1_Woodfield Rd at I-290 W Frontage.dgn

CIVILTECH	USER NAME = djk	DESIGNED - LEP	REVISED -
		DRAWN - OJT	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY TRAFFIC SIGNAL PLAN – STAGE 1
WOODFIELD ROAD AND I-290 WEST FRONTAGE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	161
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			

A

R3-3
36" X 36"
SIGN PANEL - TYPE 1
1 REQUIRED

B

R3-2
36" X 36"
SIGN PANEL - TYPE 1
1 REQUIRED

N

1

TS 14775

FILE NAME = ...\208.Temporary MOT signal plan Stage 1A.Woodfield Rd at I-290 W Frontage.dgn

CIVILTECH

USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY TRAFFIC SIGNAL PLAN – STAGE 1A
WOODFIELD ROAD AND I-290 WEST FRONTAGE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	162
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			

A

R3-3
36" X 36"
SIGN PANEL - TYPE 1
1 REQUIRED

B

R3-2
36" X 36"
SIGN PANEL - TYPE 1
1 REQUIRED

N

1

TS 14775

FILE NAME = ...\20C.Temporary MOT signal plan Stage 1B.Woodfield Rd at I-290 W Frontage.dgn

CIVILTECH

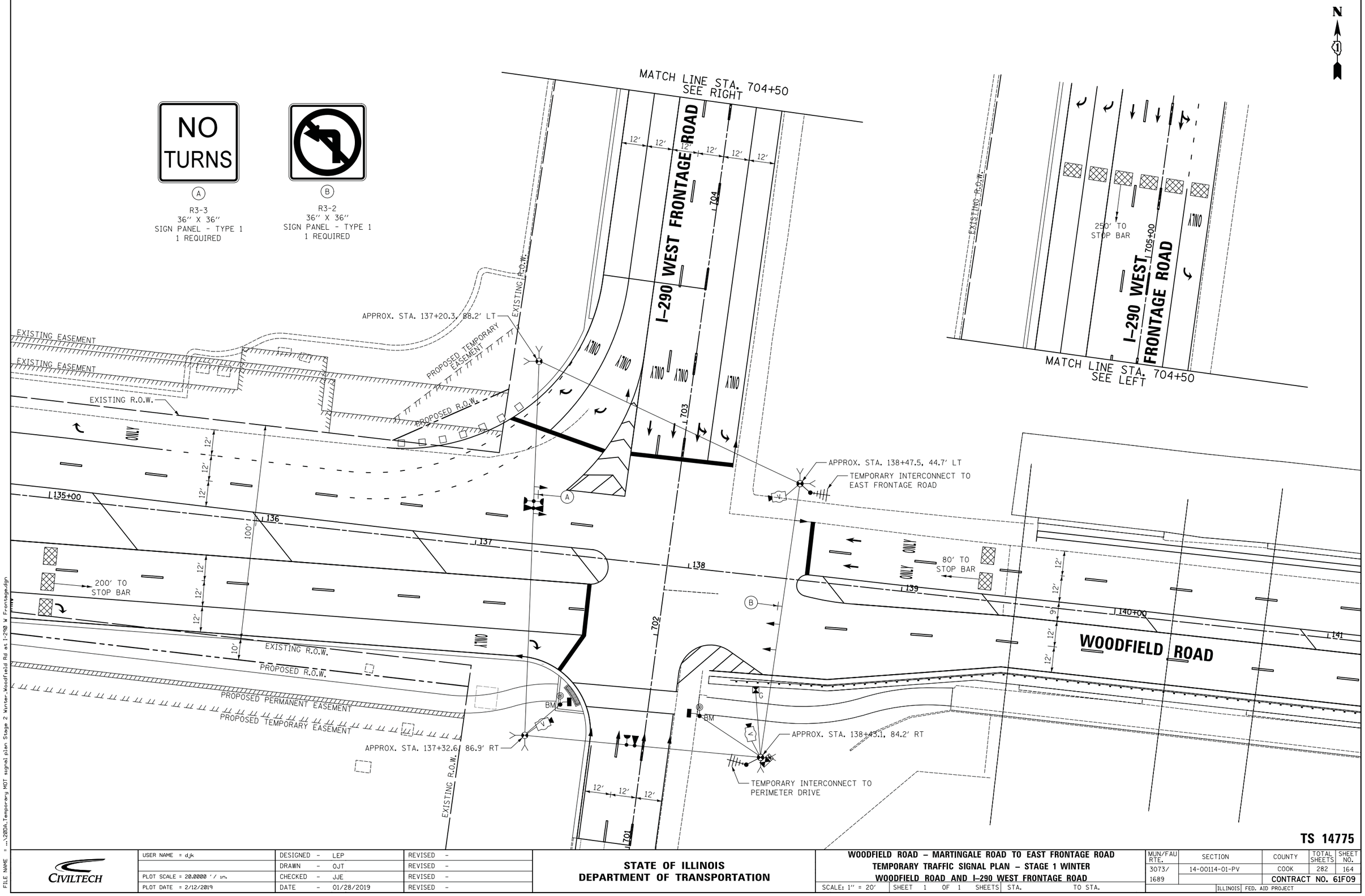
USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY TRAFFIC SIGNAL PLAN – STAGE 1B
WOODFIELD ROAD AND I-290 WEST FRONTAGE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	163
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			



FILE NAME = ...\2080A-Temporary MOT signal plan Stage 2 Winter-Woodfield Rd at I-290 W Frontage.dgn

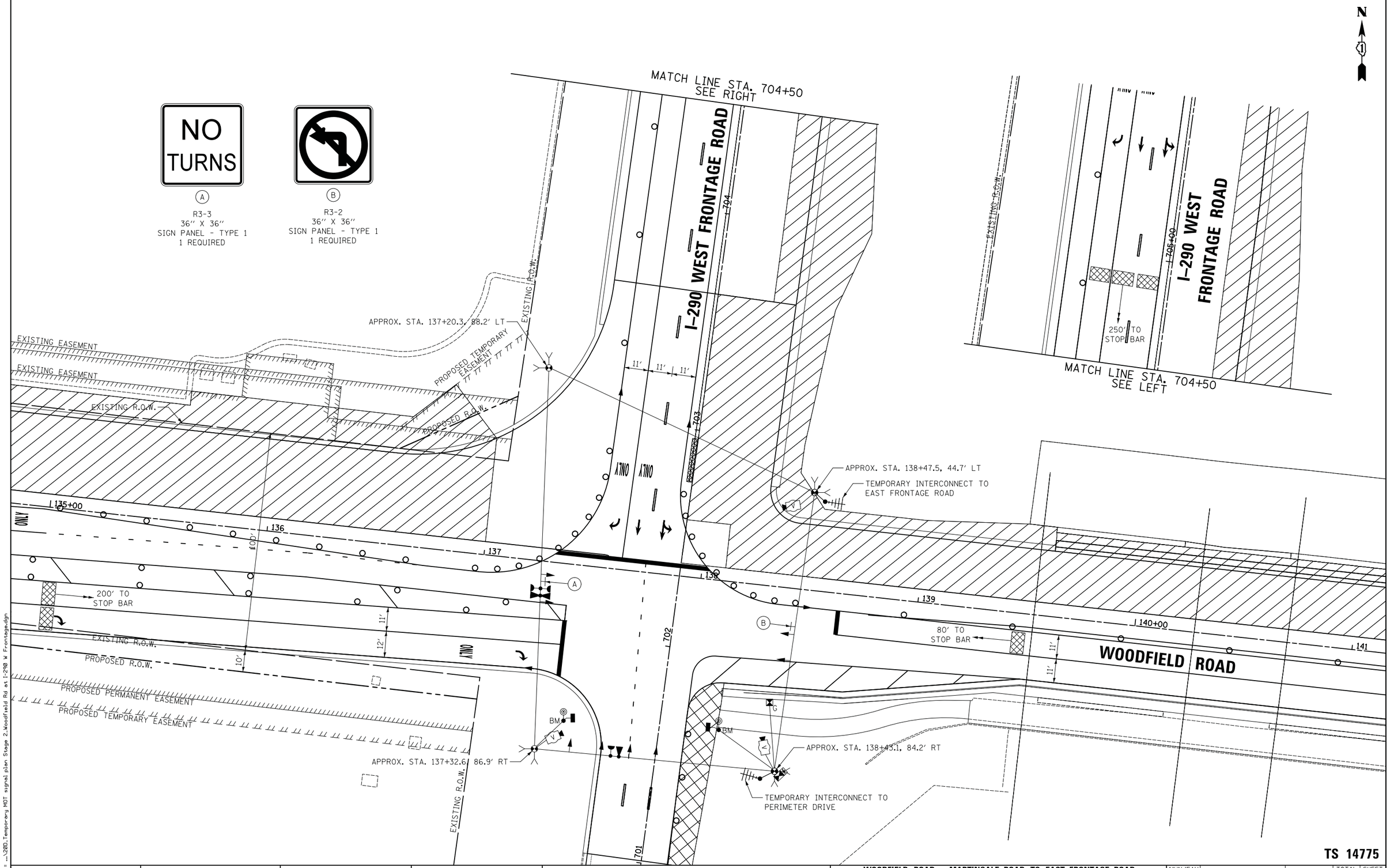
CIVILTECH	USER NAME = djk	DESIGNED - LEP	REVISED -
		DRAWN - OJT	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY TRAFFIC SIGNAL PLAN – STAGE 1 WINTER
WOODFIELD ROAD AND I-290 WEST FRONTAGE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	164
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			



TS 14775

FILE NAME = ...\280_Temporary MOT signal plan Stage 2_Woodfield Rd at I-290 W Frontage.dgn

CIVILTECH

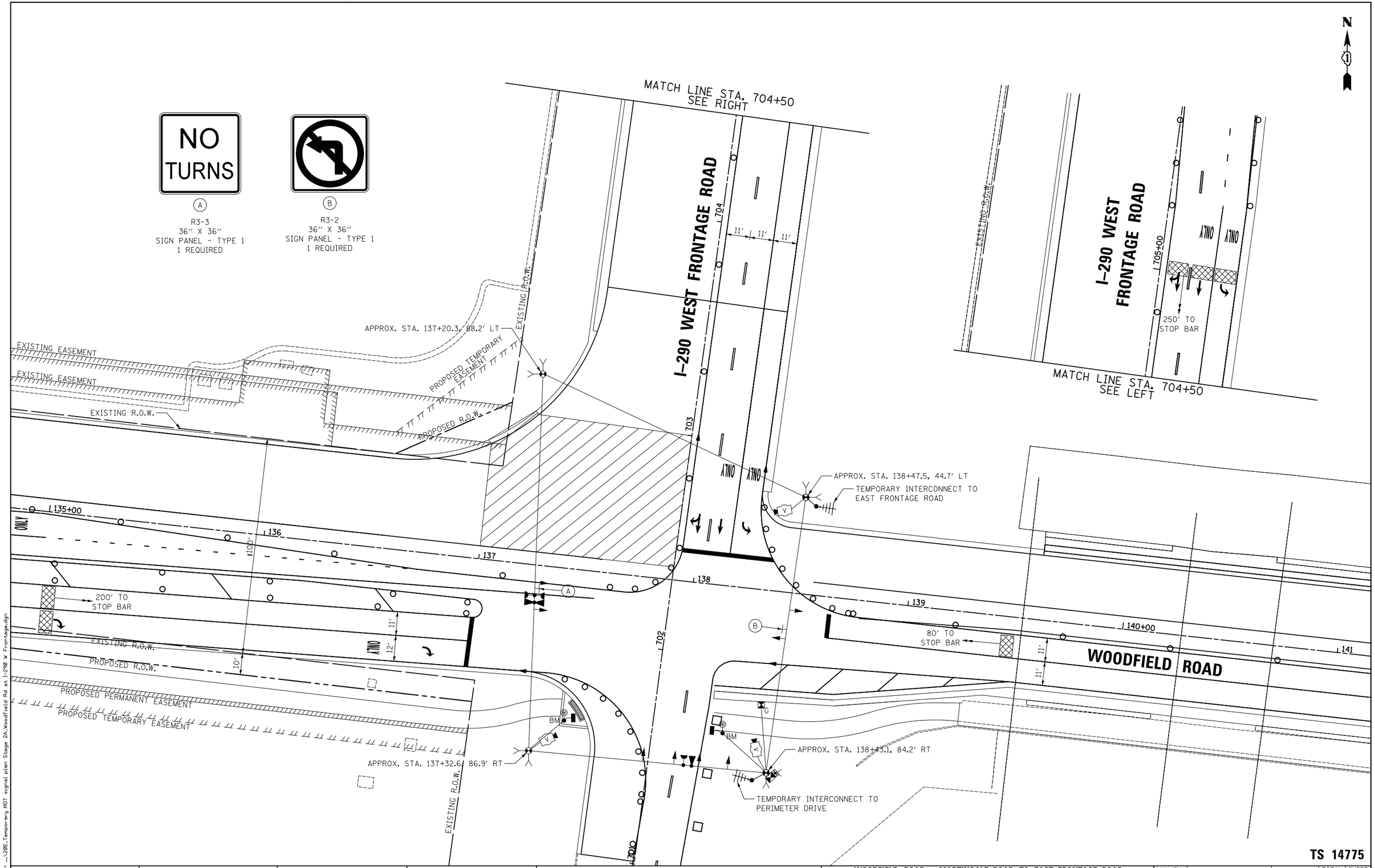
USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY TRAFFIC SIGNAL PLAN – STAGE 2
WOODFIELD ROAD AND I-290 WEST FRONTAGE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	165
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			



TS 14775

FILE NAME = ...\20E_Temporary MOT signal plan Stage 2A_Woodfield Rd at I-290 W Frontage.dgn

CIVILTECH

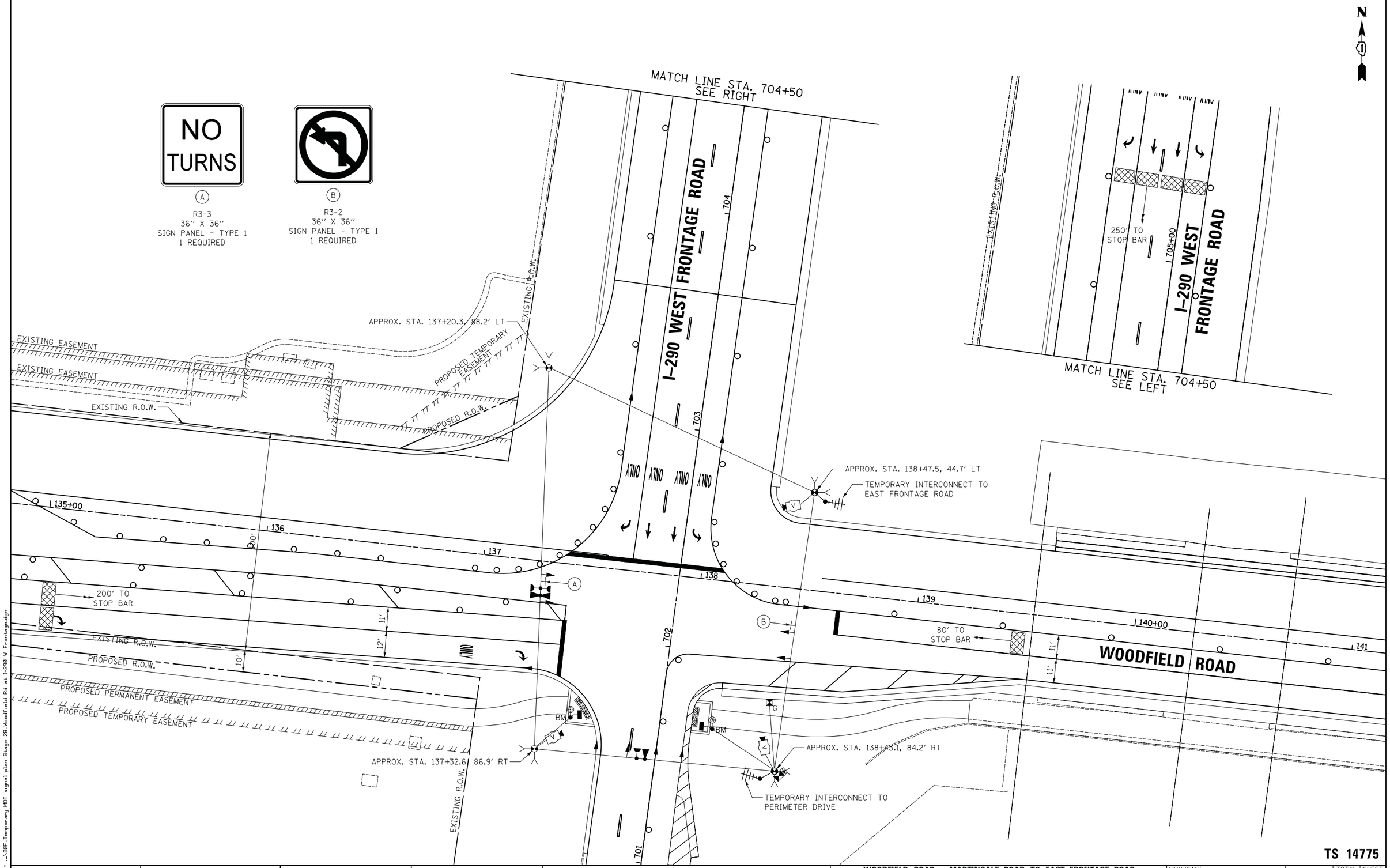
USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY TRAFFIC SIGNAL PLAN – STAGE 2A
WOODFIELD ROAD AND I-290 WEST FRONTAGE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	166
		CONTRACT NO. 61F09		
ILLINOIS	FED. AID PROJECT			



TS 14775

FILE NAME = ...\20F_Temporary MOT signal plan Stage 2B_Woodfield Rd at I-290 W Frontage.dgn

CIVILTECH

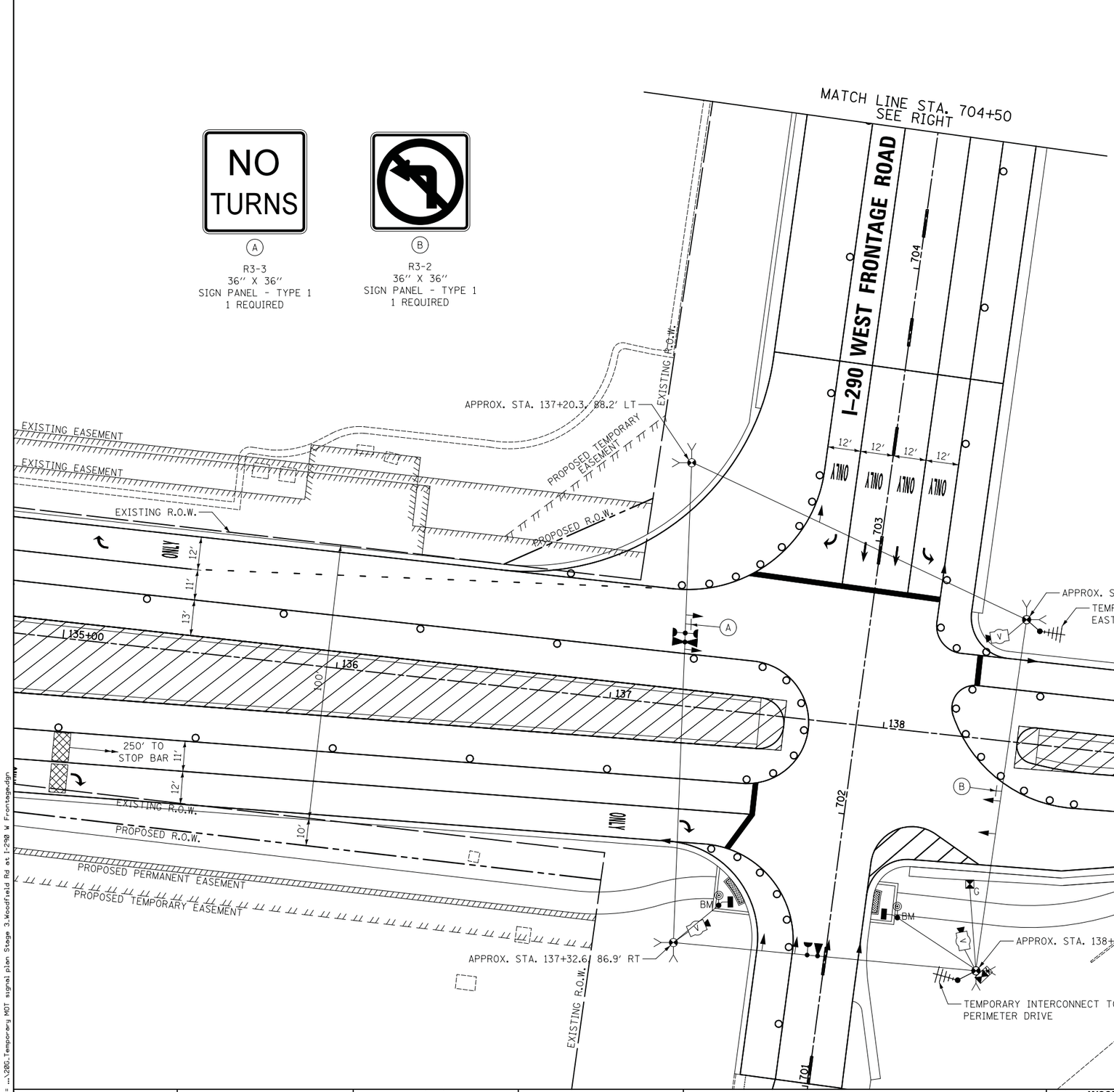
USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY TRAFFIC SIGNAL PLAN – STAGE 2B
WOODFIELD ROAD AND I-290 WEST FRONTAGE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	167
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			



TS 14775

FILE NAME = ...\206. Temporary MOT signal plan Stage 3\Woodfield Rd at I-290 W Frontage.dgn

CIVILTECH	USER NAME = djk	DESIGNED - LEP	REVISED -
		DRAWN - OJT	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

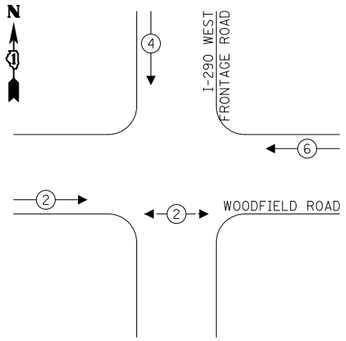
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY TRAFFIC SIGNAL PLAN – STAGE 3
WOODFIELD ROAD AND I-290 WEST FRONTAGE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	168
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			

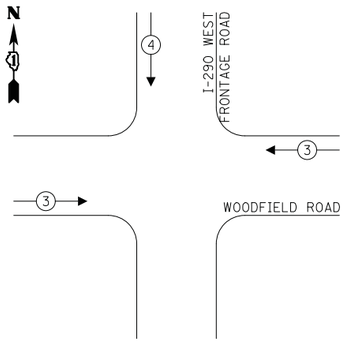
TEMPORARY CONTROLLER SEQUENCE

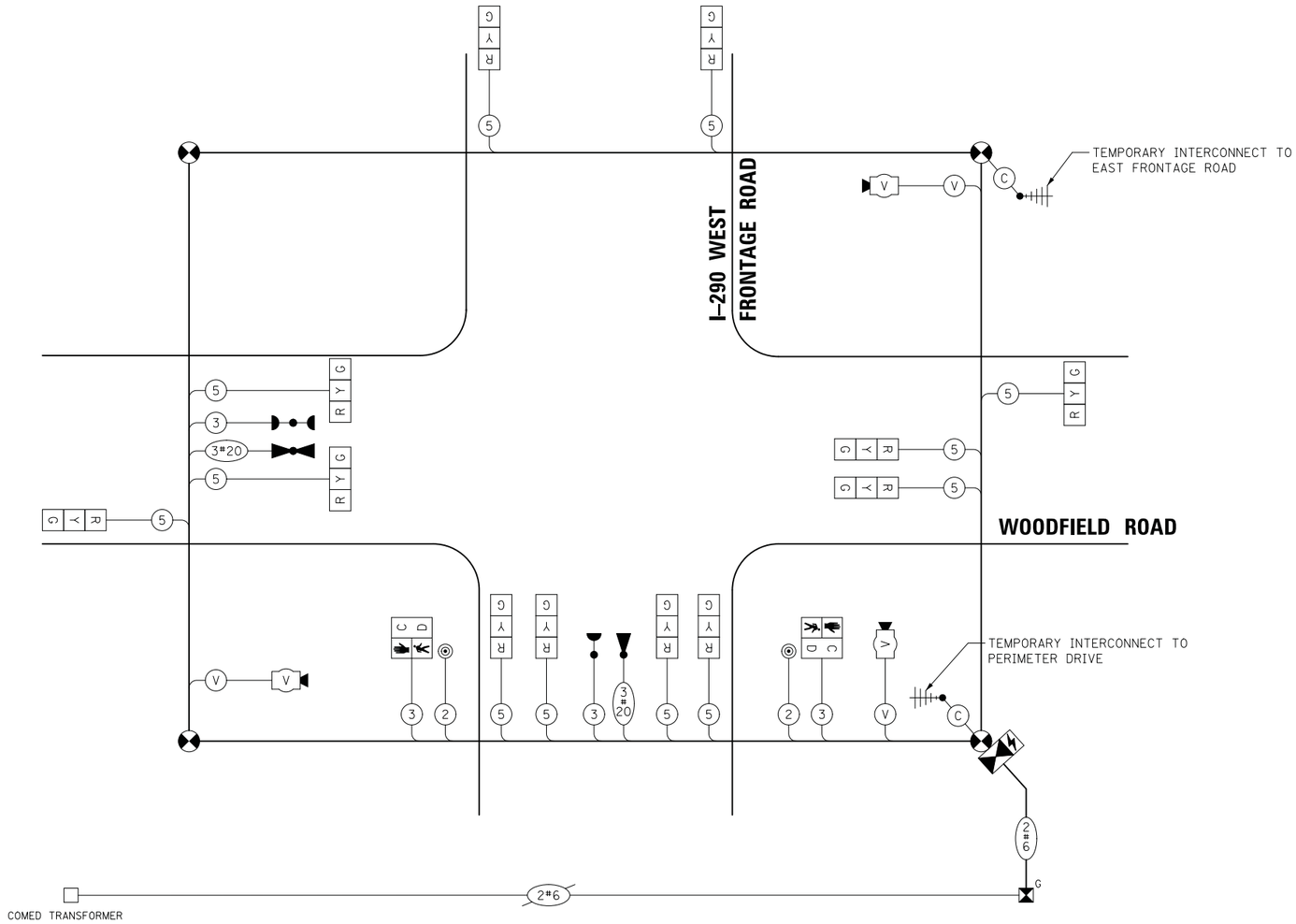


LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE





TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	457.8

ENERGY COSTS TO:

VILLAGE OF SCHAUMBURG
101 SCHAUMBURG COURT
SCHAUMBURG, IL 60193

ENERGY SUPPLY: CONTACT: TRACY WASH
PHONE: (630) 691-4691
COMPANY: COMED
ACCOUNT NUMBER: 0245068017

TS 14775

FILE NAME = ...\21_Temporary Cable Plan and Sequences_Woodfield Rd at I-290 W Frontage Rd.dgn

CIVILTECH

USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY CABLE PLAN AND SEQUENCES
WOODFIELD ROAD AND I-290 WEST FRONTAGE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	169
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			

NOTES:

1. ALL MAST ARM ASSEMBLIES AND POLES AND TRAFFIC SIGNAL POSTS SHALL BE POWDER COATED BLACK.
2. MOUNTING LOCATION OF RADAR DETECTOR WILL BE DETERMINED PER MANUFACTURER'S RECOMMENDATIONS.
3. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HAND HOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

(A)
R10-11C
30" X 42"
SIGN PANEL - TYPE 1
2 REQUIRED

(B)
R3-3
36" X 36"
SIGN PANEL - TYPE 1
1 REQUIRED

(C)
R3-2
36" X 36"
SIGN PANEL - TYPE 1
2 REQUIRED

TS 14775

FILE NAME = ...\22_Traffic signal Modernization plan_Woodfield Rd at I-290 W Frontage.dgn

CIVILTECH	USER NAME = djk	DESIGNED - LEP	REVISED -
		DRAWN - OJT	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

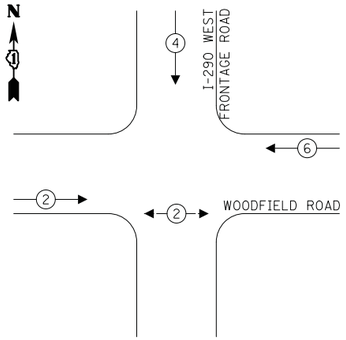
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TRAFFIC SIGNAL MODERNIZATION PLAN
WOODFIELD ROAD AND I-290 WEST FRONTAGE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	170
		CONTRACT NO. 61F09		
		ILLINOIS	FED. AID PROJECT	

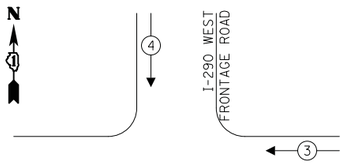
PROPOSED CONTROLLER SEQUENCE



LEGEND:

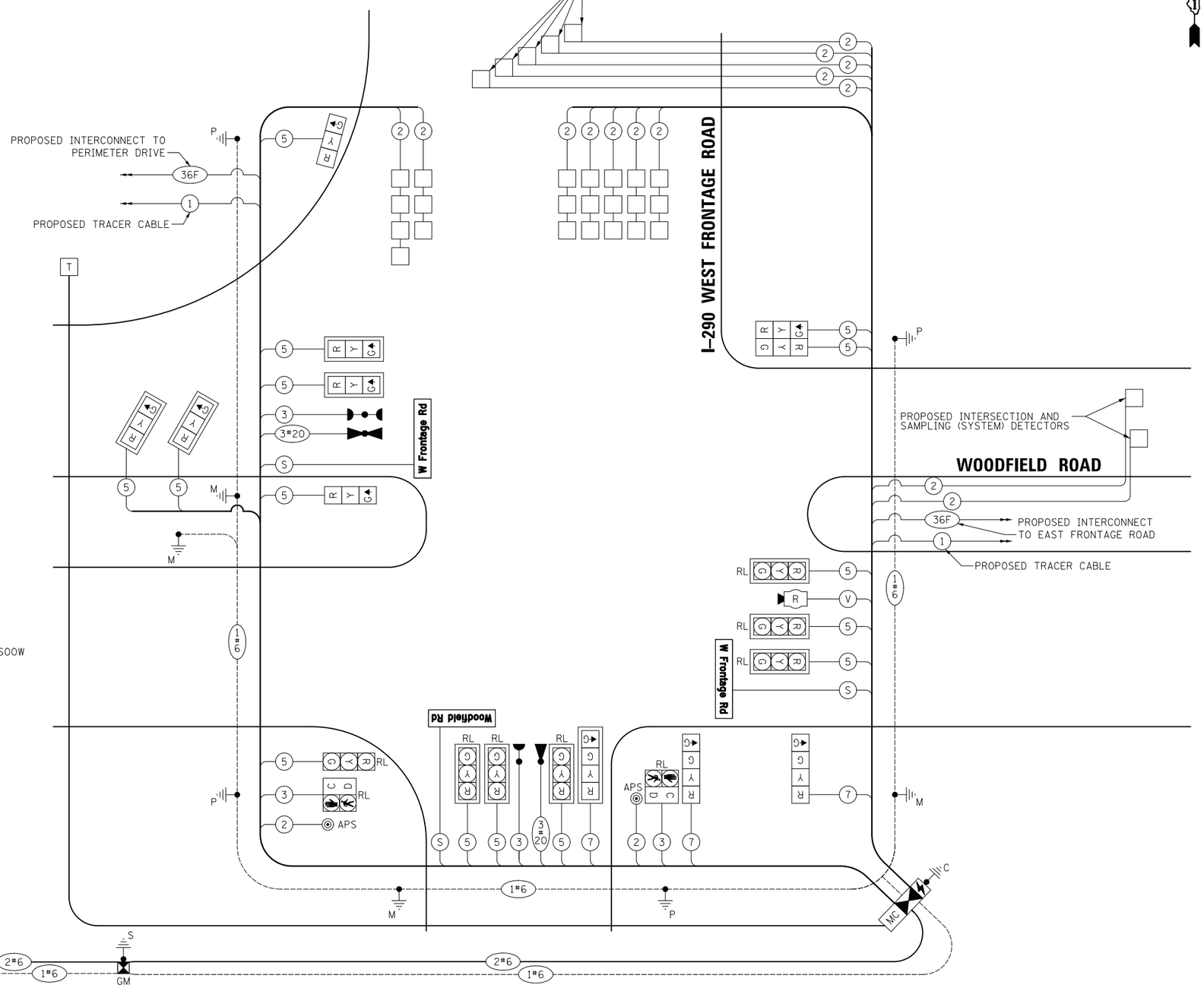
- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

(S) NO. 14 3/C (BLACK, WHITE, GREEN), TYPE SOOW



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	18	11	50	99.0
(YELLOW)	18	20	5	18.0
(GREEN)	21	12	45	113.4
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	3	120	50	180.0
LUMINAIRE	-	-	-	-
			TOTAL =	725.4

ENERGY COSTS TO:

VILLAGE OF SCHAUMBURG
101 SCHAUMBURG COURT
SCHAUMBURG, IL 60193

ENERGY SUPPLY: CONTACT: TRACY WASH
PHONE: (630) 691-4691
COMPANY: COMED
ACCOUNT NUMBER: 0245068017

TS 14775

FILE NAME = ...\23.Cable Plan and Sequences_Woodfield Rd at I-290 W Frontage Rd.dgn

CIVILTECH

USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

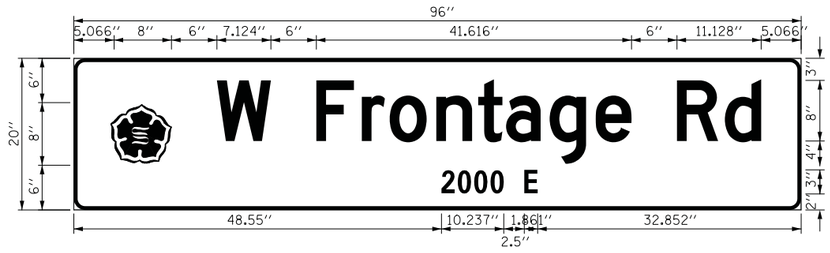
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
CABLE PLAN AND SEQUENCES
WOODFIELD ROAD AND I-290 WEST FRONTAGE ROAD
SCALE: NO SCALE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

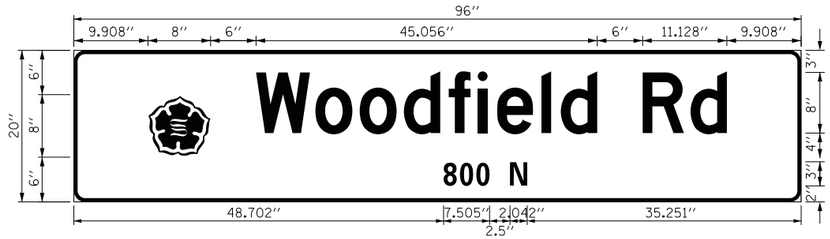
MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	171
		CONTRACT NO. 61F09		
		ILLINOIS	FED. AID PROJECT	

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
SIGN PANEL - TYPE 1	SQ FT	45
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	918
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	225
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	611
HANDHOLE	EACH	5
HEAVY-DUTY HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	2
PAINT NEW TRAFFIC SIGNAL POST	EACH	4
PAINT NEW MAST ARM AND POLE, UNDER 40 FOOT	EACH	3
PAINT NEW MAST ARM AND POLE, 40 FOOT AND OVER	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	207
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	685
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2968
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	328
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4255
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	203
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	966
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 20 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	37
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST-ARM MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	11
INDUCTIVE LOOP DETECTOR	EACH	14
DETECTOR LOOP, TYPE I	FOOT	1546
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	7
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	16
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	11
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	464
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	3
FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, FAR BACK	EACH	1
MASTER CONTROLLER (SPECIAL)	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
CABLE, SPECIAL	FOOT	499
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12	LED SNS	ZZ	2 (TWO SIDED)



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12	LED SNS	ZZ	1 (ONE SIDED)

TS 14775

FILE NAME = ...\24.500 and SNS.Woodfield Rd at I-290 W Frontage Rd.dgn

CIVILTECH

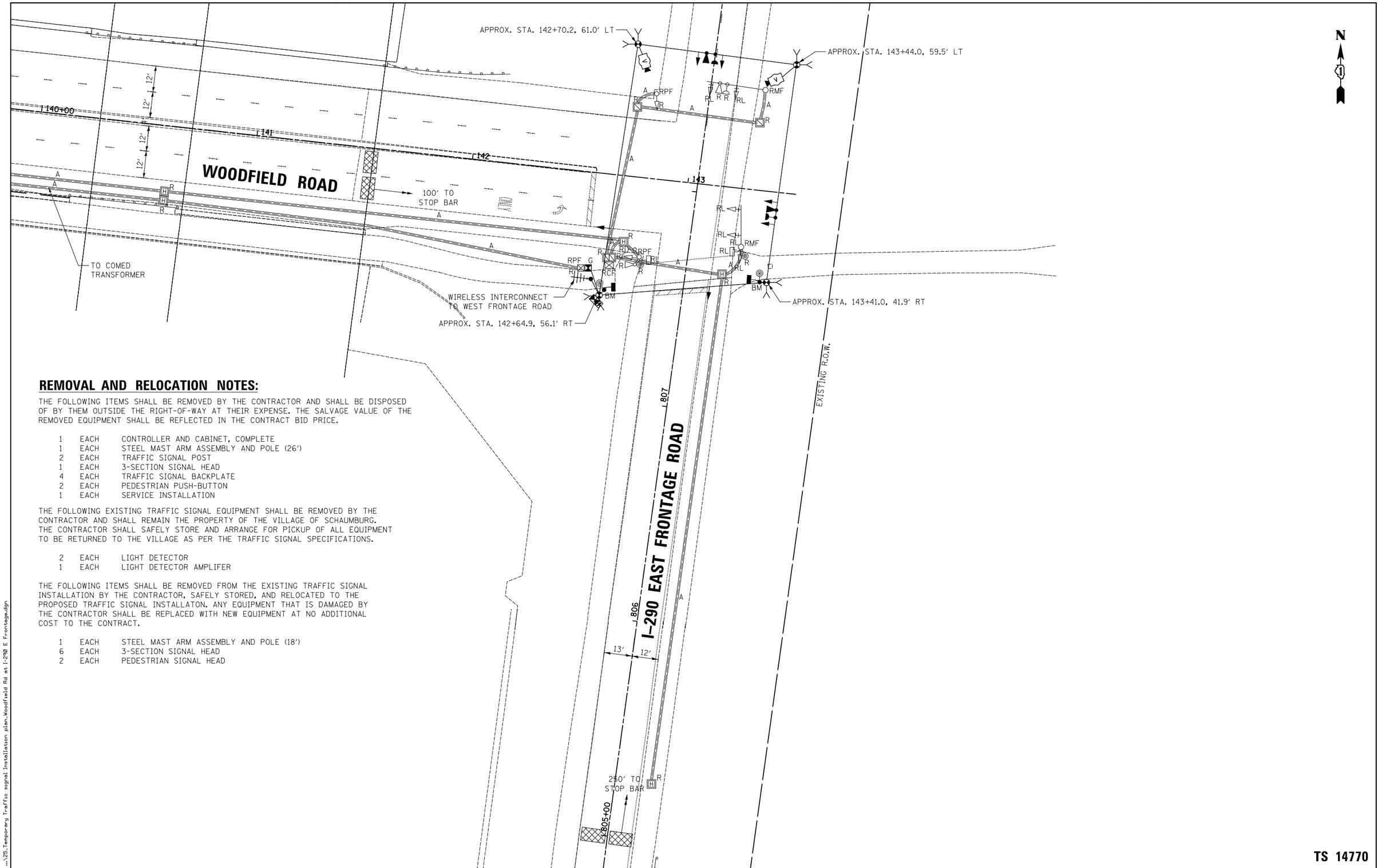
USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
SCHEDULE OF QUANTITIES AND ILLUMINATED STREET NAME SIGNS
WOODFIELD ROAD AND I-290 WEST FRONTAGE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	172
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			



REMOVAL AND RELOCATION NOTES:

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

1	EACH	CONTROLLER AND CABINET, COMPLETE
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE (26')
2	EACH	TRAFFIC SIGNAL POST
1	EACH	3-SECTION SIGNAL HEAD
4	EACH	TRAFFIC SIGNAL BACKPLATE
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	SERVICE INSTALLATION

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE VILLAGE OF SCHAUMBURG. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICKUP OF ALL EQUIPMENT TO BE RETURNED TO THE VILLAGE AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFER

THE FOLLOWING ITEMS SHALL BE REMOVED FROM THE EXISTING TRAFFIC SIGNAL INSTALLATION BY THE CONTRACTOR, SAFELY STORED, AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL INSTALLATON. ANY EQUIPMENT THAT IS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED WITH NEW EQUIPMENT AT NO ADDITIONAL COST TO THE CONTRACT.

1	EACH	STEEL MAST ARM ASSEMBLY AND POLE (18')
6	EACH	3-SECTION SIGNAL HEAD
2	EACH	PEDESTRIAN SIGNAL HEAD

TS 14770

FILE NAME = ...\25_Temporary Traffic signal installation plan_Woodfield Rd at I-290 E Frontage.dgn

CIVILTECH

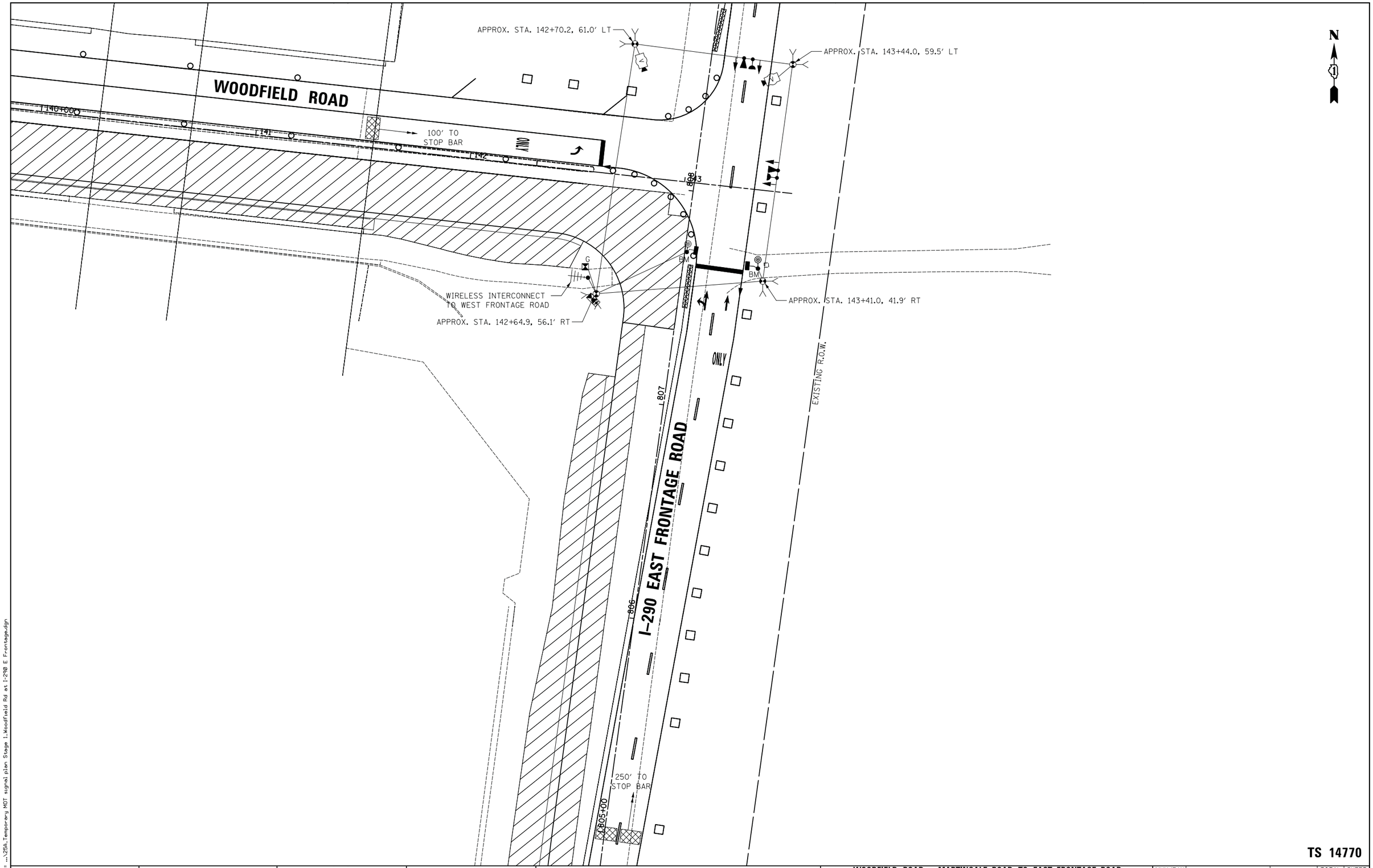
USER NAME = djk	DESIGNED - LEP	REVISED -	
	DRAWN - OJT	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
WOODFIELD ROAD AND I-290 EAST FRONTAGE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	173
		CONTRACT NO. 61F09		
	ILLINOIS	FED. AID PROJECT		



TS 14770

FILE NAME = ...\25h_Temporary MOT signal plan Stage 1_Woodfield Rd at I-290 E Frontage.dgn

CIVILTECH

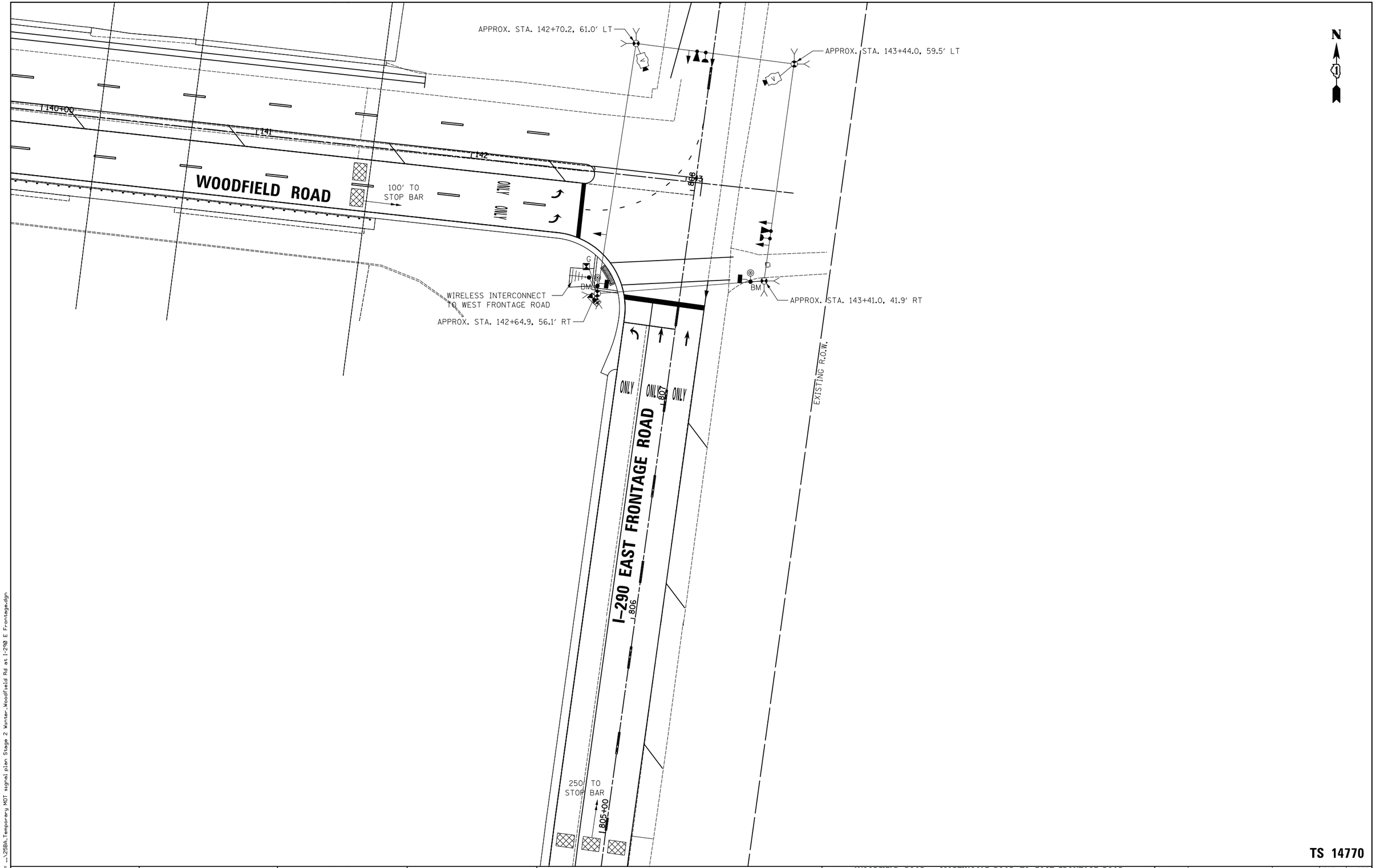
USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY TRAFFIC SIGNAL PLAN – STAGE 1
WOODFIELD ROAD AND I-290 EAST FRONTAGE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	174
		CONTRACT NO. 61F09		
	ILLINOIS	FED. AID PROJECT		



TS 14770

FILE NAME = ...\258A_Temporary MOT signal plan Stage 2 Winter_Woodfield Rd at I-290 E Frontage.dgn

CIVILTECH

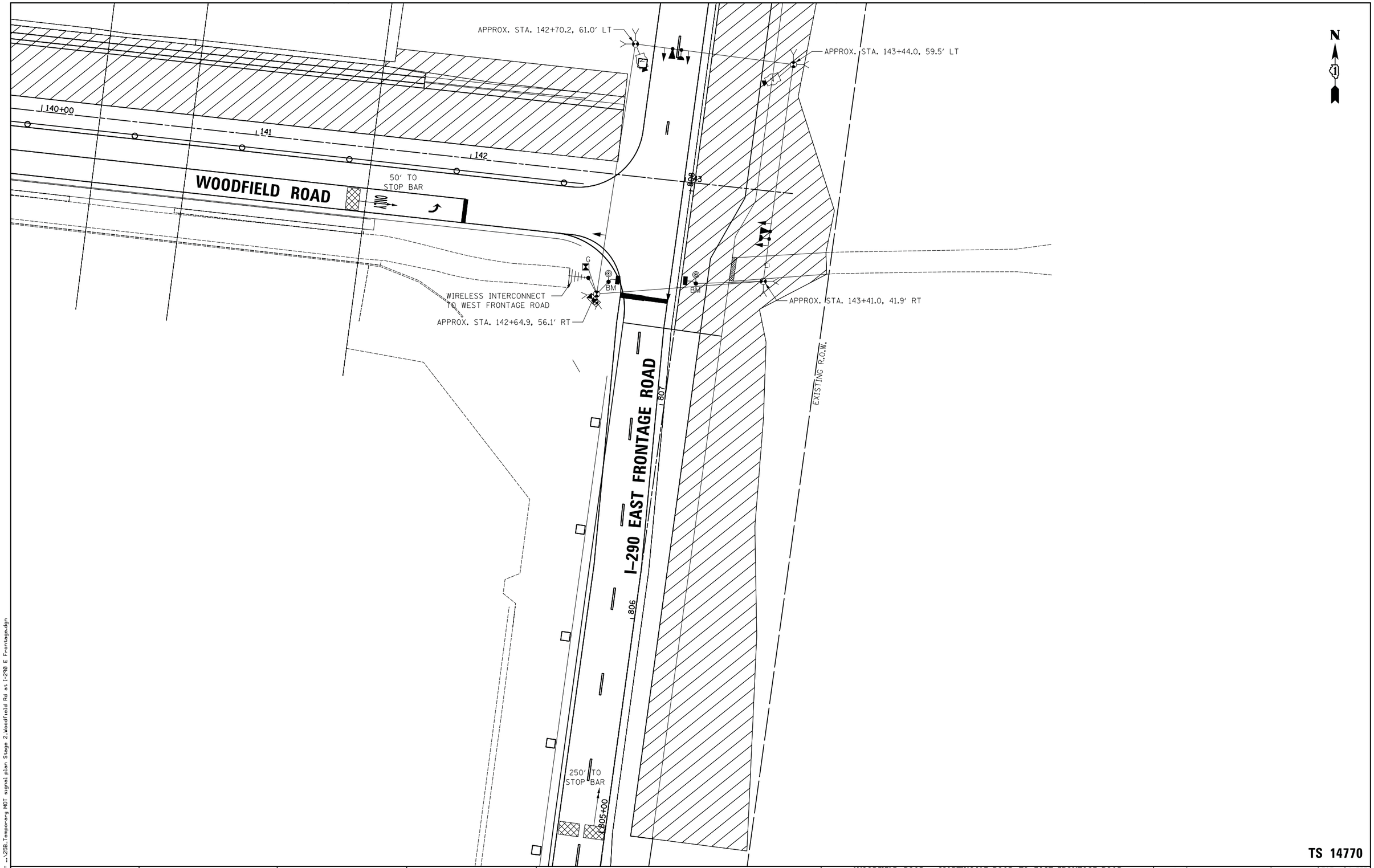
USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY TRAFFIC SIGNAL PLAN – STAGE 1 WINTER
WOODFIELD ROAD AND I-290 EAST FRONTAGE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	175
		CONTRACT NO. 61F09		
	ILLINOIS	FED. AID PROJECT		



TS 14770

FILE NAME = ...\258_Temporary MOT signal plan Stage 2_Woodfield Rd at I-290 E Frontage.dgn

CIVILTECH

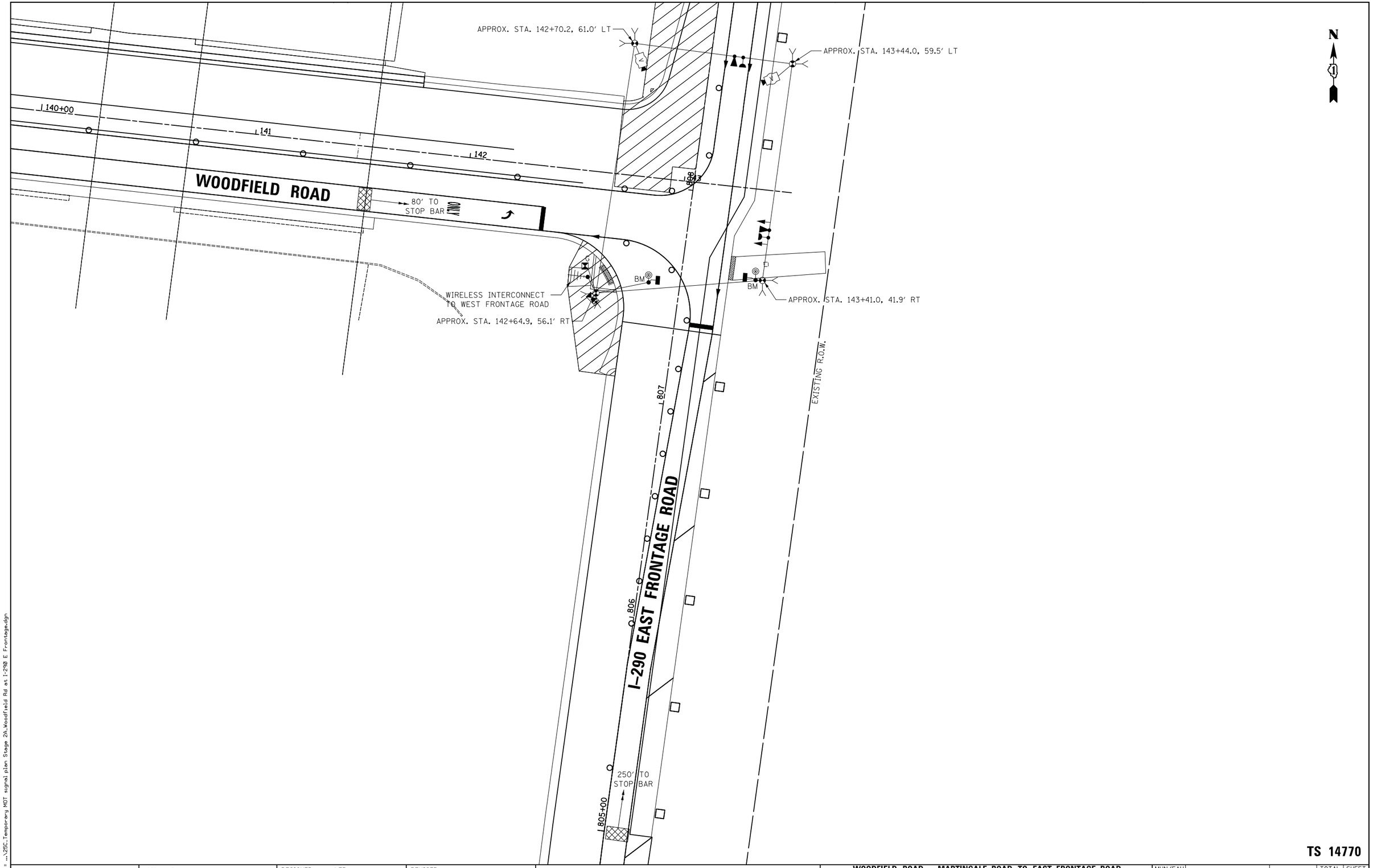
USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY TRAFFIC SIGNAL PLAN – STAGE 2
WOODFIELD ROAD AND I-290 EAST FRONTAGE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	176
		CONTRACT NO. 61F09		
ILLINOIS	FED. AID PROJECT			



TS 14770

FILE NAME = ...\25c_Temporary MOT signal plan Stage 2A_Woodfield Rd at I-290 E Frontage.dgn

CIVILTECH

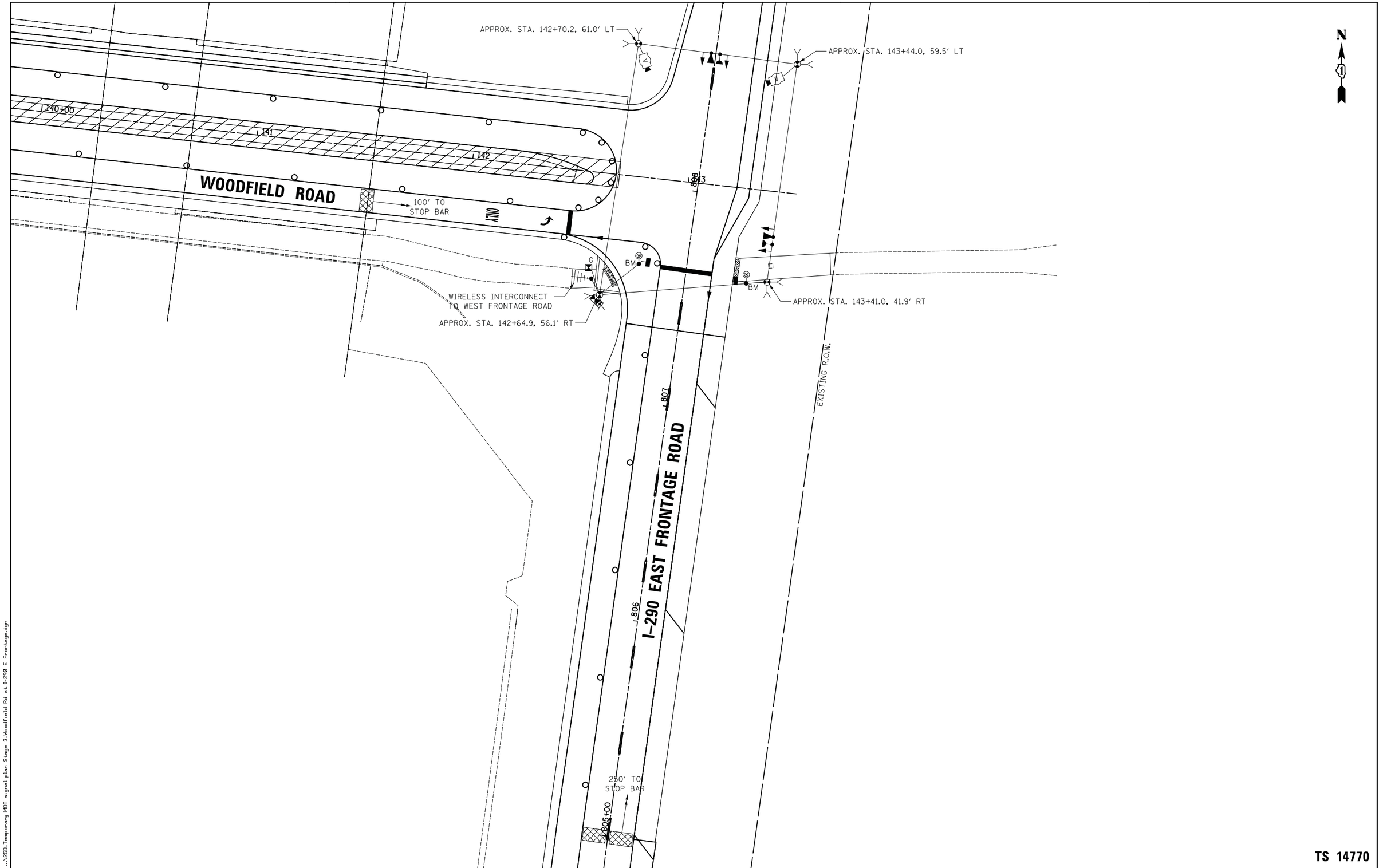
USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY TRAFFIC SIGNAL PLAN – STAGE 2A
WOODFIELD ROAD AND I-290 EAST FRONTAGE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	177
		CONTRACT NO. 61F09		
	ILLINOIS	FED. AID PROJECT		



TS 14770

FILE NAME = ...\250.Temporary MOT signal plan Stage 3.Woodfield Rd at I-290 E Frontage.dgn

CIVILTECH	USER NAME = djk	DESIGNED - LEP	REVISED -
		DRAWN - OJT	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

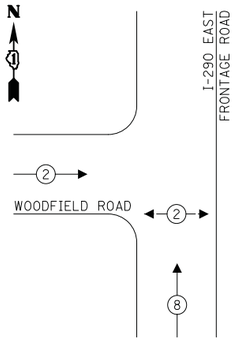
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY TRAFFIC SIGNAL PLAN – STAGE 3
WOODFIELD ROAD AND I-290 EAST FRONTAGE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	178
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			

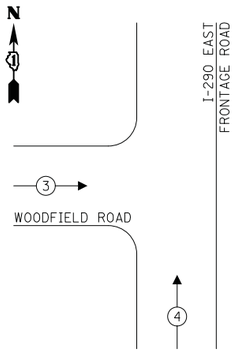
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



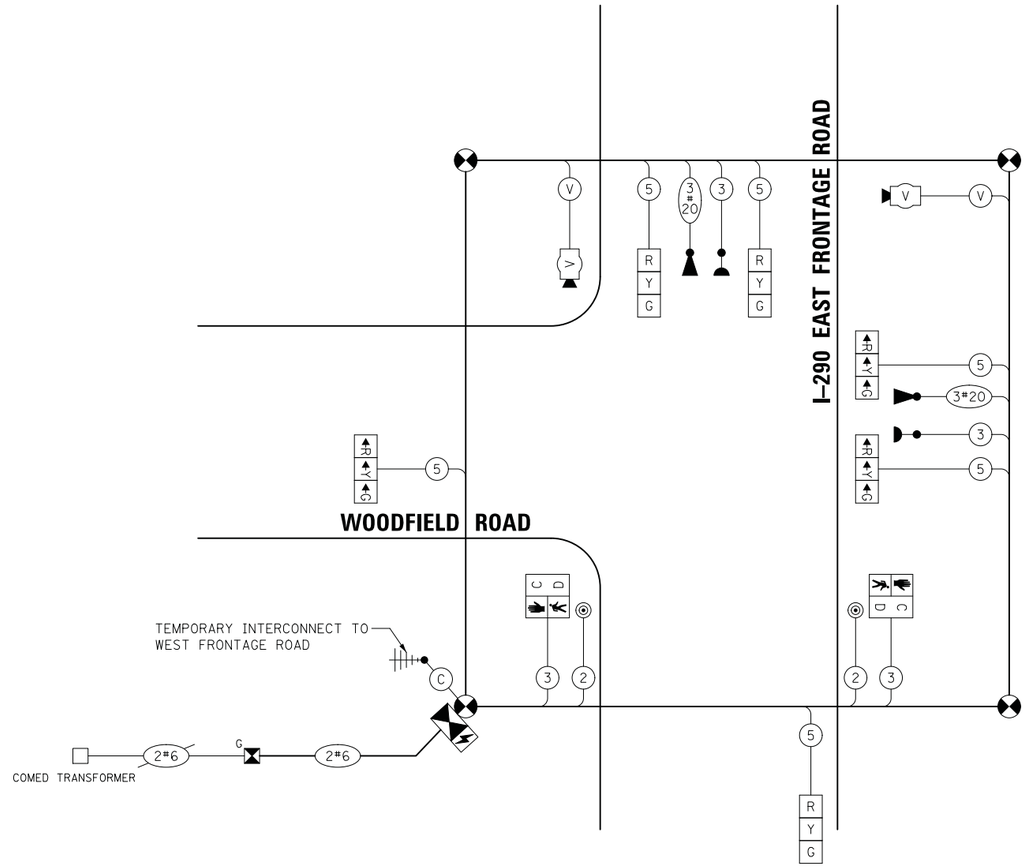
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	6	11	50	33.0
(YELLOW)	6	20	5	6.0
(GREEN)	6	12	45	32.4
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	386.4

ENERGY COSTS TO:

VILLAGE OF SCHAUMBURG
101 SCHAUMBURG COURT
SCHAUMBURG, IL 60193

ENERGY SUPPLY: CONTACT: TRACY WASH
PHONE: (630) 691-4691
COMPANY: COMED
ACCOUNT NUMBER: 0245068017



TS 14770

FILE NAME = ...\26_Temporary Cable Plan and Sequences_Woodfield Rd at I-290 E Frontage Rd.dgn

CIVILTECH

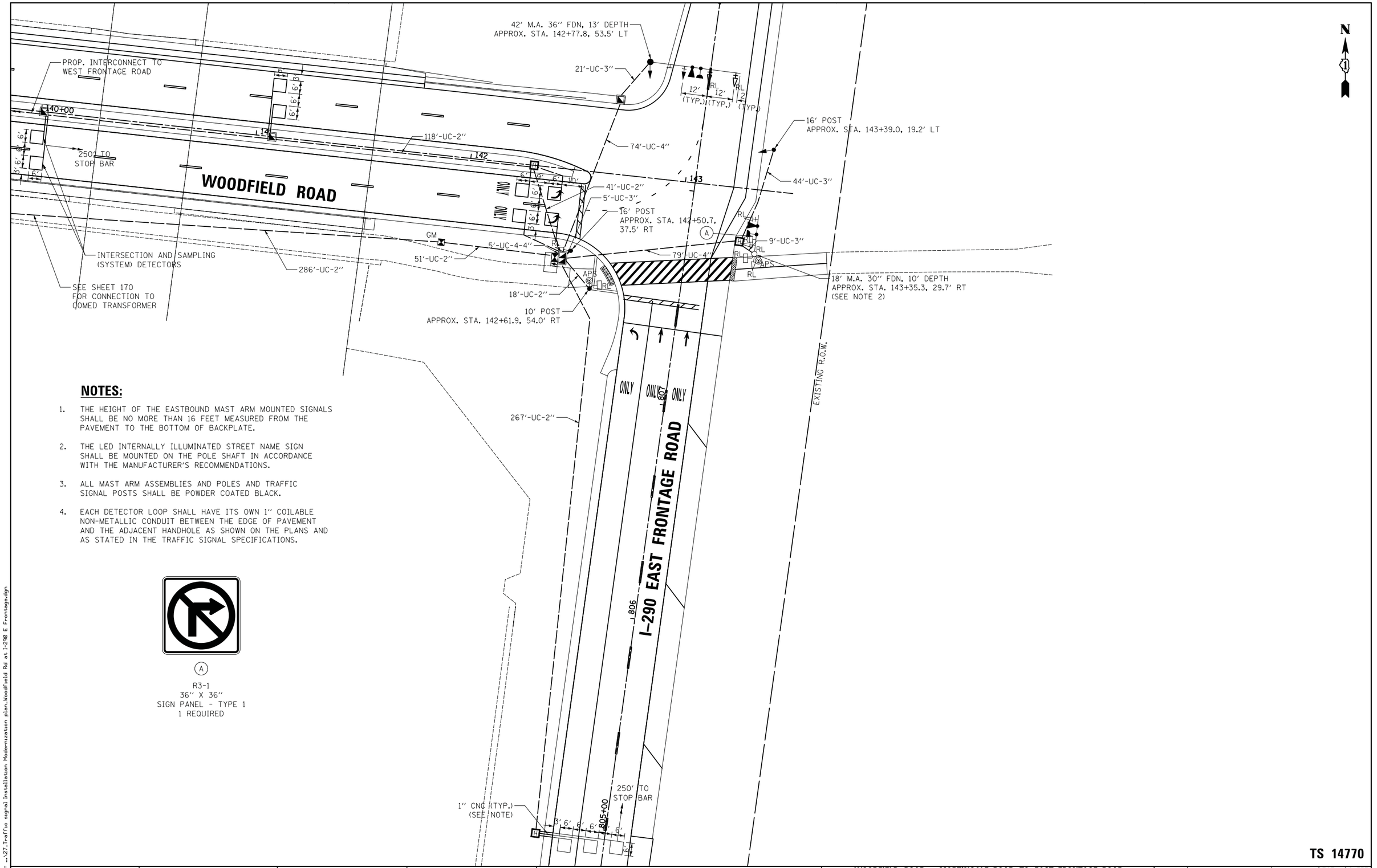
USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY CABLE PLAN AND SEQUENCES
WOODFIELD ROAD AND I-290 EAST FRONTAGE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	179
		CONTRACT NO. 61F09		
	ILLINOIS	FED. AID PROJECT		



NOTES:

1. THE HEIGHT OF THE EASTBOUND MAST ARM MOUNTED SIGNALS SHALL BE NO MORE THAN 16 FEET MEASURED FROM THE PAVEMENT TO THE BOTTOM OF BACKPLATE.
2. THE LED INTERNALLY ILLUMINATED STREET NAME SIGN SHALL BE MOUNTED ON THE POLE SHAFT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3. ALL MAST ARM ASSEMBLIES AND POLES AND TRAFFIC SIGNAL POSTS SHALL BE POWDER COATED BLACK.
4. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

(A)

R3-1
36" X 36"
SIGN PANEL - TYPE 1
1 REQUIRED

TS 14770

FILE NAME = ...\27_Traffic signal Installation Modernization plan_Woodfield Rd at I-290 E Frontage.dgn

CIVILTECH	USER NAME = djk	DESIGNED - LEP	REVISED -
		DRAWN - OJT	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

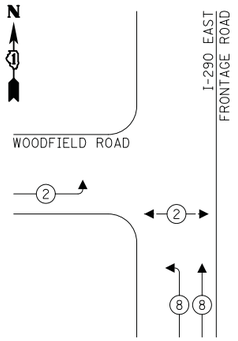
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TRAFFIC SIGNAL MODERNIZATION PLAN
WOODFIELD ROAD AND I-290 EAST FRONTAGE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	180
		CONTRACT NO. 61F09		
	ILLINOIS	FED. AID PROJECT		

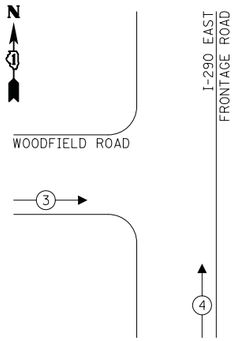
PROPOSED CONTROLLER SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



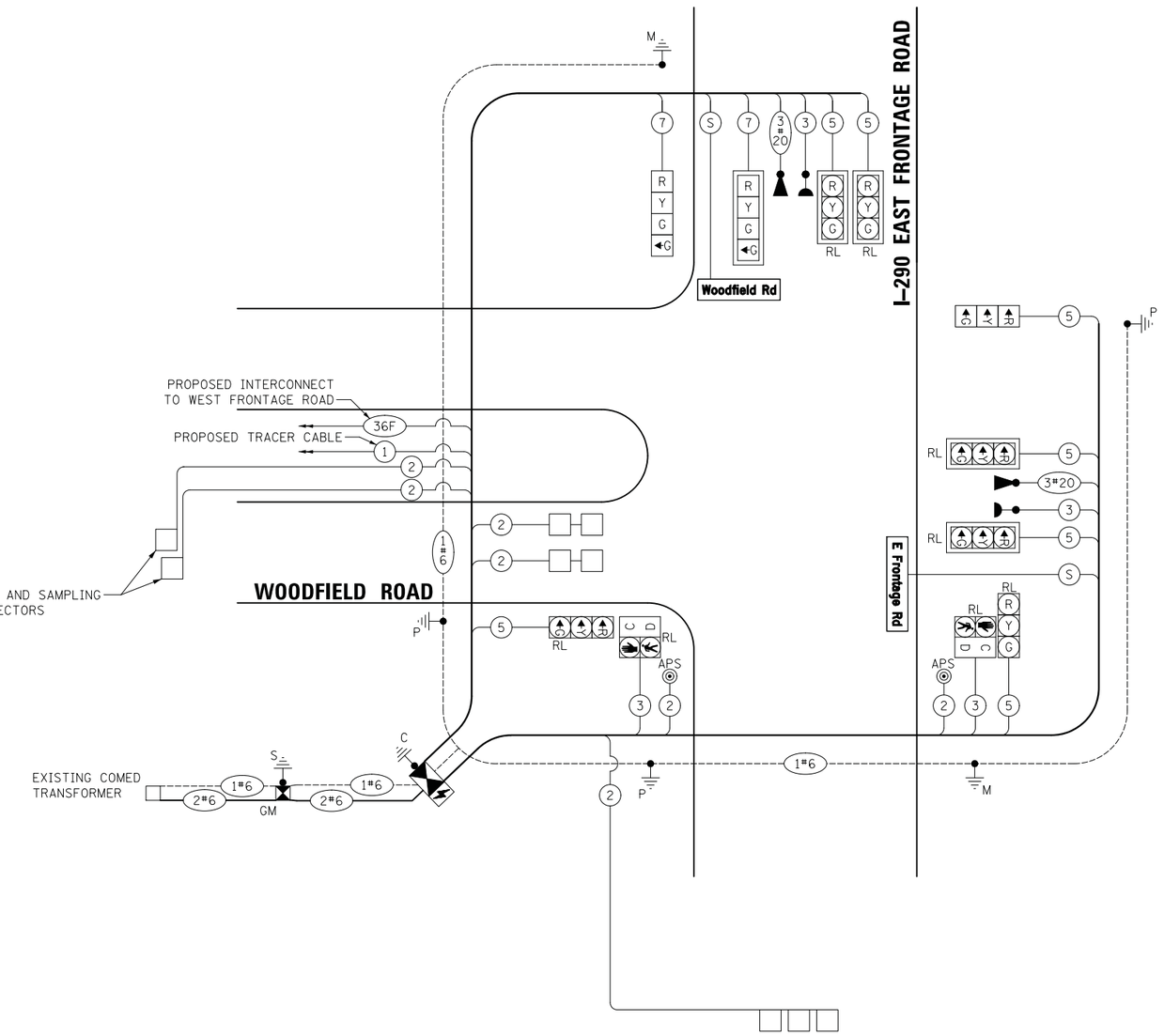
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	11	50	49.5
(YELLOW)	9	20	5	9.0
(GREEN)	11	12	45	59.4
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	2	120	50	120.0
LUMINAIRE	-	-	-	-
			TOTAL =	402.9

ENERGY COSTS TO:

VILLAGE OF SCHAUMBURG
101 SCHAUMBURG COURT
SCHAUMBURG, IL 60193

ENERGY SUPPLY: CONTACT: TRACY WASH
PHONE: (630) 691-4691
COMPANY: COMED
ACCOUNT NUMBER: 0245068017



LEGEND:

(S) NO. 14 3/C (BLACK, WHITE, GREEN), TYPE SOOW

TS 14770

FILE NAME = ...\28_Cable Plan and Sequences_Woodfield Rd at I-290 E Frontage Rd.dgn

CIVILTECH	USER NAME = djk	DESIGNED - LEP	REVISED -
		DRAWN - OJT	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

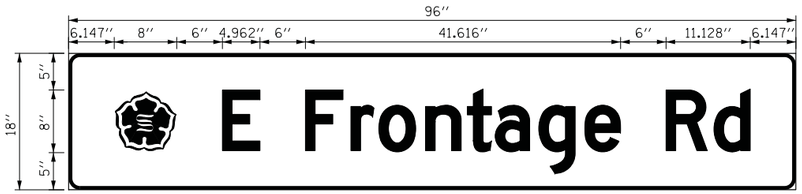
WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
CABLE PLAN AND SEQUENCES
WOODFIELD ROAD AND I-290 EAST FRONTAGE ROAD

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

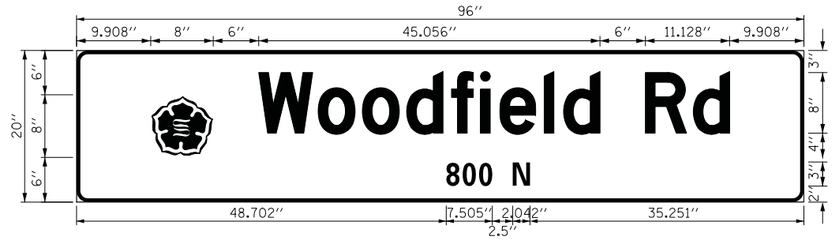
MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	181
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
SIGN PANEL - TYPE 1	SQ FT	9
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1031
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	78
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	173
HANDHOLE	EACH	2
HEAVY-DUTY HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
PAINT NEW TRAFFIC SIGNAL POST	EACH	3
PAINT NEW MAST ARM AND POLE, 40 FOOT AND OVER	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	180
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	525
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1020
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	307
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	997
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	624
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1056
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST-ARM MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	5
INDUCTIVE LOOP DETECTOR	EACH	5
DETECTOR LOOP, TYPE I	FOOT	291
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	6
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2
RELOCATE EXISTING MAST ARM ASSEMBLY AND POLE	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	7
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	331
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	2
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
CABLE, SPECIAL	FOOT	307
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12	LED SNS	ZZ	1 (ONE SIDED)



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12	LED SNS	ZZ	1 (ONE SIDED)

TS 14770

FILE NAME = ...\29.SGD and SNS_Woodfield Rd at I-290 E Frontage Rd.dgn

CIVILTECH

USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

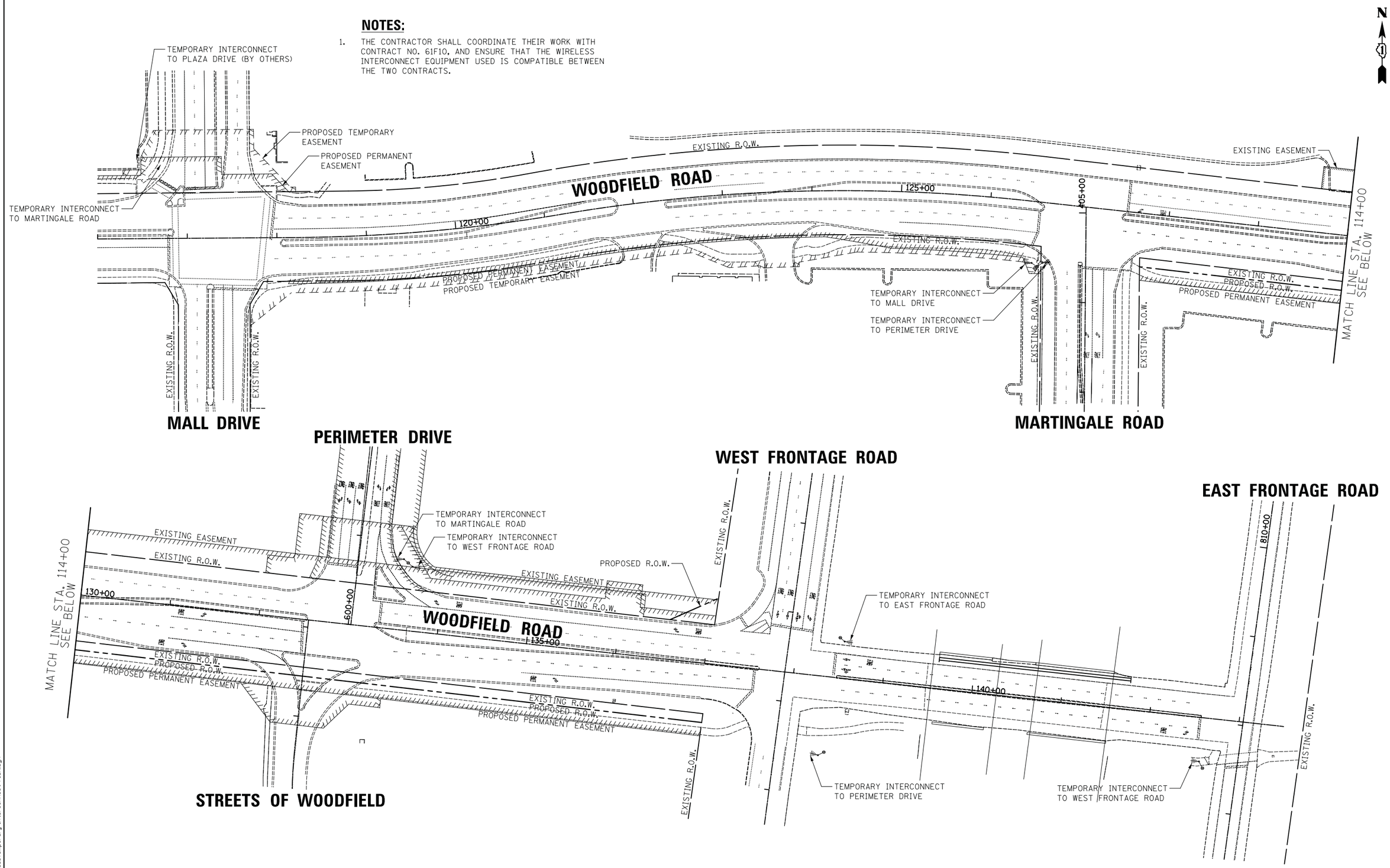
WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
SCHEDULE OF QUANTITIES AND ILLUMINATED STREET NAME SIGNS
WOODFIELD ROAD AND I-290 EAST FRONTAGE ROAD

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	182
		CONTRACT NO. 61F09		
	ILLINOIS	FED. AID PROJECT		

NOTES:

1. THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH CONTRACT NO. 61F10, AND ENSURE THAT THE WIRELESS INTERCONNECT EQUIPMENT USED IS COMPATIBLE BETWEEN THE TWO CONTRACTS.



FILE NAME = ...\30.Temporary Interconnect Plan.dgn

CIVILTECH	USER NAME = djk	DESIGNED - LEP	REVISED -
		DRAWN - LEP	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY INTERCONNECT PLAN

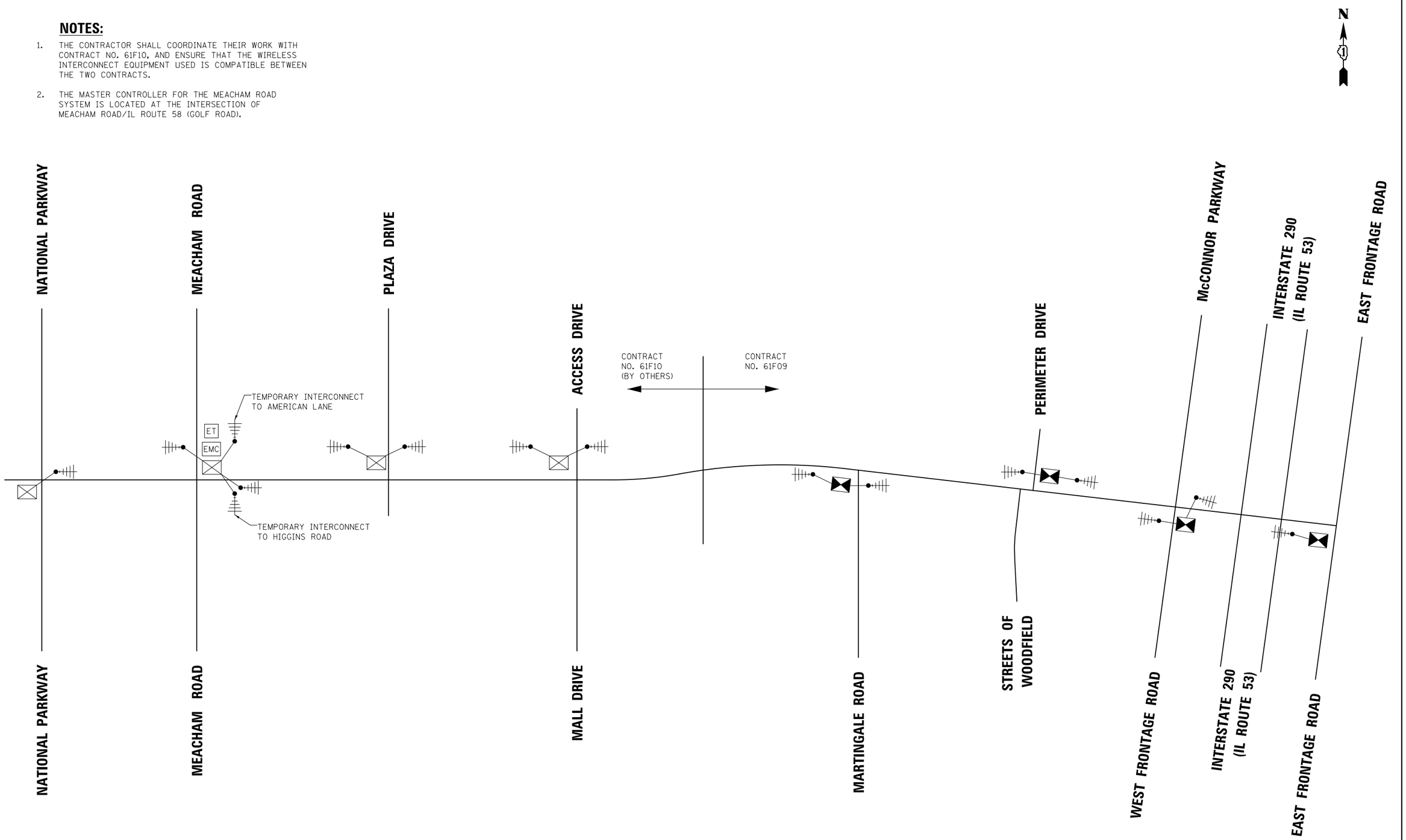
SCALE: 1" = 50' | SHEET 1 OF 1 SHEETS | STA. | TO STA.

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	183
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			

NOTES:

1. THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH CONTRACT NO. 61F10, AND ENSURE THAT THE WIRELESS INTERCONNECT EQUIPMENT USED IS COMPATIBLE BETWEEN THE TWO CONTRACTS.

2. THE MASTER CONTROLLER FOR THE MEACHAM ROAD SYSTEM IS LOCATED AT THE INTERSECTION OF MEACHAM ROAD/IL ROUTE 58 (GOLF ROAD).



FILE NAME = ...\31_Temporary Interconnect Schematic_Woodfield Rd From Meacham Rd to East Frontage Rd.dgn

CIVILTECH

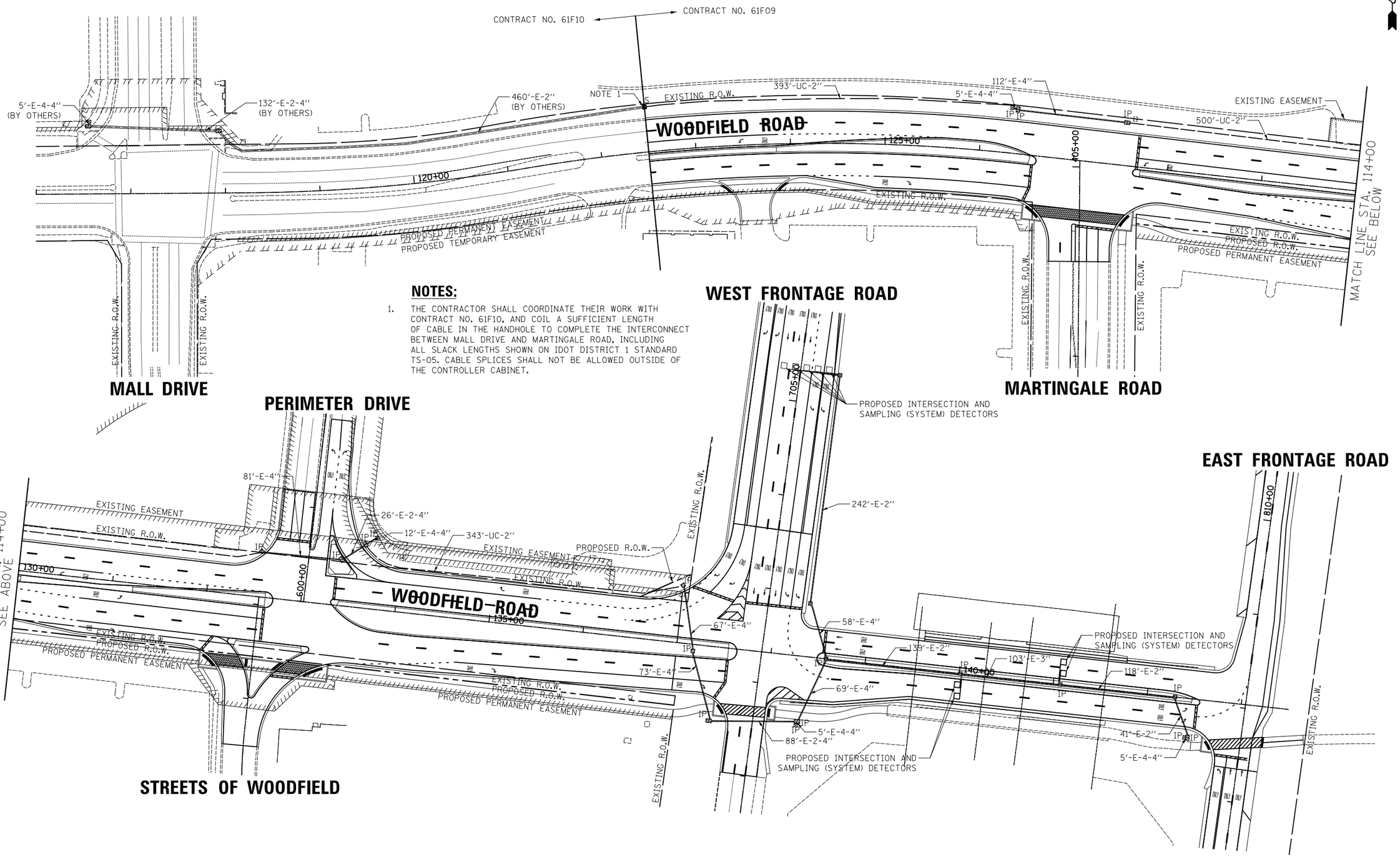
USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MEACHAM ROAD TO EAST FRONTAGE ROAD
TEMPORARY INTERCONNECT SCHEMATIC

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	184
		CONTRACT NO. 61F09		
		ILLINOIS	FED. AID PROJECT	



NOTES:

1. THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH CONTRACT NO. 61F10, AND COIL A SUFFICIENT LENGTH OF CABLE IN THE HANDHOLE TO COMPLETE THE INTERCONNECT BETWEEN MALL DRIVE AND MARTINGALE ROAD, INCLUDING ALL SLACK LENGTHS SHOWN ON IDOT DISTRICT 1 STANDARD TS-05. CABLE SPLICES SHALL NOT BE ALLOWED OUTSIDE OF THE CONTROLLER CABINET.

FILE NAME = ...\32_Proposed Interconnect Plan.dgn

CIVILTECH	USER NAME = djk	DESIGNED - LEP	REVISED -
		DRAWN - LEP	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED - JJE	REVISED -
	PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
INTERCONNECT PLAN

SCALE: 1" = 50' | SHEET 1 OF 1 SHEETS

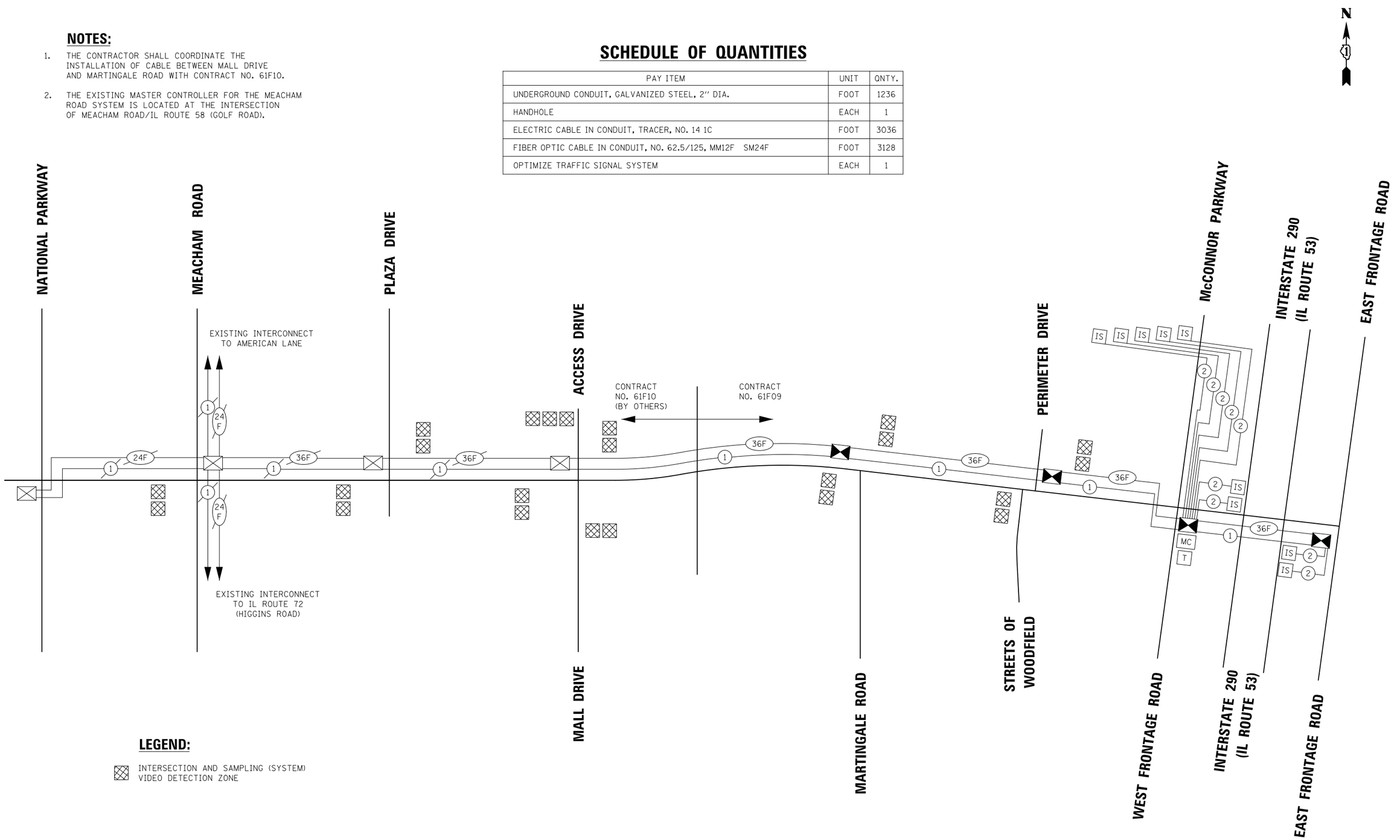
MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	185
		CONTRACT NO. 61F09		
	ILLINOIS	FED. AID PROJECT		

NOTES:

1. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF CABLE BETWEEN MALL DRIVE AND MARTINGALE ROAD WITH CONTRACT NO. 61F10.
2. THE EXISTING MASTER CONTROLLER FOR THE MEACHAM ROAD SYSTEM IS LOCATED AT THE INTERSECTION OF MEACHAM ROAD/IL ROUTE 58 (GOLF ROAD).

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1236
HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3036
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	3128
OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1



LEGEND:

INTERSECTION AND SAMPLING (SYSTEM)
VIDEO DETECTION ZONE

FILE NAME = ...\33_Proposed Interconnect Schematic_Woodfield Rd From Meacham Rd to East Frontage Rd.dgn

CIVILTECH

USER NAME = djk	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

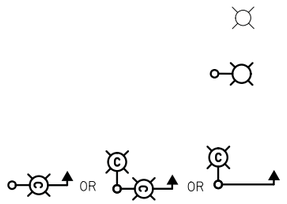
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MEACHAM ROAD TO EAST FRONTAGE ROAD
INTERCONNECT SCHEMATIC

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	186
		CONTRACT NO. 61F09		
	ILLINOIS	FED. AID PROJECT		

LEGEND



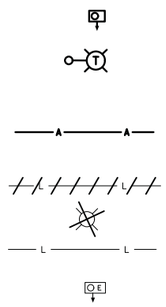
EXISTING SCHAUMBURG LIGHTING UNIT
250 WATT HPS, 38 FT ALUMINUM POLE
3.6 FT MAST ARM

PROPOSED SCHAUMBURG LIGHTING UNIT
LUMINAIRE INSTALLATION, TYPE 1
PHILIPS LUMEC TR20 130 WATT LED, 240V (PHASE TO PHASE)
LIGHT POLE, SPECIAL
38 FT ALUMINUM POLE, 3.6 FT MAST ARM

PROPOSED SCHAUMBURG COMBINATION TRAFFIC SIGNAL AND STREET LIGHT
LUMINAIRE INSTALLATION, TYPE 2
AMERICAN ELECTRIC LIGHTING ATB2
214 WATT LED, 240V (PHASE TO PHASE)
45 FT M.H., 15 FT MAST ARM
WIRED AND POWERED FROM LIGHTING CONTROLLER

PROPOSED SCHAUMBURG LIGHTING CONTROLLER
120/240 VOLT, 100 AMP

PROPOSED UNIT DUCT
(AS SPECIFIED IN THE PLANS)



PROPOSED IDOT UNDERPASS PEDESTRIAN LIGHTING
WEST UNDERPASS - 100 WATT HIGH PRESSURE SODIUM VAPOR

TEMPORARY LIGHTING UNIT
400 WATT HPS COBRAHEAD
60 FT. WOOD POLE (50 FT MOUNTING HEIGHT)
15 FT MAST ARM

TEMPORARY AERIAL CABLES
(AS SPECIFIED IN THE PLANS)

REMOVAL OF EXISTING CABLES

EXISTING LIGHTING UNIT TO BE REMOVED

EXISTING LIGHTING CABLES

EXISTING IDOT UNDERPASS LIGHTING
WEST UNDERPASS - HPS UNDERPASS LIGHTS
EAST UNDERPASS - LPS UNDERPASS LIGHTS

LIGHTING GENERAL NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.

2. PAY ITEMS IN THE SUMMARY OF QUANTITIES HAVE BEEN ESTIMATED. IF, IN THE ENGINEER'S OPINION, ANY WORK IS NOT REQUIRED, THAT ITEM WILL BE DEDUCTED FROM THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

3. EXISTING LIGHTING WILL REMAIN OPERATIONAL UNTIL TEMPORARY LIGHTING IS INSTALLED AND OPERATIONAL. TEMPORARY LIGHTING WILL REMAIN OPERATIONAL UNTIL THE PROPOSED LIGHTING IS INSTALLED, OPERATIONAL, AND COMPLETE SUCCESSFUL TESTING.

4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES AND LIGHTING CONTROLLERS FOR EXAMINATION AND CONFIRMATION WITH THE RESIDENT ENGINEER.

5. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO AUGURING FOR LIGHT POLE FOUNDATIONS. THE EXACT LOCATIONS FOR ALL ITEMS SHALL BE CONFIRMED WITH THE RESIDENT ENGINEER.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE RESIDENT ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY FOR COORDINATING THE FINISHED GRADE ELEVATION WITH THE TOP OF FOUNDATIONS HEIGHTS AND THE LIGHT SHALL REMAIN WITH THE CONTRACTOR.

7. LIGHT POLE FOUNDATION TYPE WILL BE METAL UNLESS OTHERWISE SPECIFIED IN THE PLANS. FOUNDATION TYPE IS BASED ON KNOWN UTILITY INFORMATION. OFFSET FOUNDATION LOCATIONS WERE BASED ON ATLAS AND PHYSICAL STRUCTURES FOR LOCATION OF UTILITIES. WHERE POSSIBLE, OFFSET FOUNDATIONS SHOULD BE REPLACED WITH METAL FOUNDATIONS. FOUNDATION TYPE SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. CONTRACTOR WILL BE PAID FOR THE FOUNDATION TYPE INSTALLED WITH NO ADDITIONAL COMPENSATION FOR CHANGE FROM CONTRACT PLAN.

8. NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY THE ENGINEER.

9. FOR ALL CONCRETE FOUNDATIONS, A MINIMUM OF 2 SLEEVES SHALL BE PROVIDED REGARDLESS OF WHAT IS BEING INSTALLED. THE SLEEVES SHALL BE SEALED AND CAPPED TO PREVENT MOISTURE OR CONTAMINANTS. MATERIAL AND LABOR WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE PAY ITEM FOR LIGHT POLE FOUNDATION.

10. TO MAINTAIN THE STRUCTURAL INTEGRITY OF ALUMINUM POLES WITH MAST ARMS, THEY SHALL NOT BE ERECTED AND LEFT TO STAND WITHOUT LUMINAIRES. NOTE THAT THE CONTRACTOR SHALL NOT BE PAID FOR POLES UNTIL LUMINAIRES ARE INSTALLED.

11. CONDUIT AND UNIT DUCT MUST BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH TREES, BUSHES, DRAINS, OTHER UTILITIES, AND LANDSCAPING. PREFERRED LOCATION OF UNIT DUCT IS 12 INCHES OFF PROPOSED BACK OF CURB AND IN NO CASE SHALL IT BE CLOSER THEN 12 INCHES. LOCATIONS GREATER THEN 12 INCHES BASED ON FIELD CONDITIONS WILL BE APPROVED BY THE ENGINEER.

12. WHEN SPLICING TO EXISTING POLE, ANY AND ALL WORK REQUIRED TO RUN THE PROPOSED UNIT DUCT INTO EXISTING FOUNDATION SLEEVE AND SPLICING IN EXISTING POLE SHALL BE COVERED AND INCLUDED IN THE PAY ITEM FOR THE UNIT DUCT.

13. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE ANY LIGHT STANDARD IS ERECTED.

14. THE INSTALLATION OF BURIED WARNING TAPE SHALL BE INSPECTED AND APPROVED BY THE RESIDENT ENGINEER.

15. NO UNDERGROUND SPLICING ALLOWED.

16. ANY DAMAGE TO PAVEMENT, SIDEWALK, CURB, OR ANY OTHER PORTION OF THE ROADWAY NOT SPECIFICALLY TO BE REMOVED AND REPLACED SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST AND REPLACEMENT SHALL MEET THE APPROVAL OF THE ENGINEER.

17. OFFSET CALL-OFFS FOR TEMPORARY LIGHT POLES ARE FROM THE CENTER OF POLES TO PROPOSED CONSTRUCTION BASELINE. OFFSET CALL-OFFS FOR PROPOSED LIGHT POLES ARE FROM THE CENTER OF POLES TO PROPOSED EDGE OF PAVEMENT (E.O.P.)

LIGHTING SCHEDULE OF QUANTITIES

CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	490
81100220	CONDUIT ATTACHED TO STRUCTURE, 3/4" DIA., PVC COATED GALVANIZED STEEL	FOOT	66
81300320	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 8" X 8" X 6"	EACH	5
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	318
81800230	AERIAL CABLE, 2-1/C NO. 6 WITH MESSENGER WIRE	FOOT	2536
82107200	UNDERPASS LUMINAIRE, 100 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	4
83600356	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8 5/8" X 6'	EACH	8
84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	19
84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	16
84200804	REMOVAL OF POLE FOUNDATION	EACH	16
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	9210
X0323003	TEMPORARY ELECTRIC SERVICE INSTALLATION	EACH	1
X0326148	TEMPORARY WOOD POLE, 60 FT., CLASS 4, 15 FT. MAST ARM	EACH	14
X0326760	REMOVE EXISTING LIGHTING CONTROLLER AND SALVAGE	EACH	1
X0327577	PROTECT AND MAINTAIN EXISTING UNDERPASS LUMINAIRE	L SUM	1
X8163577	UNIT DUCT, 600V, 4-1C NO.8, 3-1C NO. 2, 1/C NO.2 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	3426
X8210040	TEMPORARY LUMINAIRE, HIGH PRESSURE SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	14
X8250060	TEMPORARY LIGHTING CONTROLLER	EACH	1
X8300001	LIGHT POLE, SPECIAL	EACH	15
X8360215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	84
X8360356	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8 5/8" X 6' (MATERIAL ONLY)	EACH	3
X8380075	BREAKAWAY DEVICE, TRANSFORMER BASE, SPECIAL	EACH	15
X8430100	REMOVE EXISTING CONDUIT ATTACHED TO STRUCTURE	FOOT	240
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	18
XX008068	LUMINAIRE INSTALLATION, TYPE 1	EACH	15
XX008069	LUMINAIRE INSTALLATION, TYPE 2	EACH	6
	LIGHT POLE, SPECIAL (MATERIAL ONLY)	EACH	3
	LUMINAIRE TYPE 1 (MATERIAL ONLY)	EACH	3
	LUMINAIRE TYPE 2 (MATERIAL ONLY)	EACH	3
	BREAKAWAY DEVICE, TRANSFORMER BASE, SPECIAL (MATERIAL ONLY)	EACH	3

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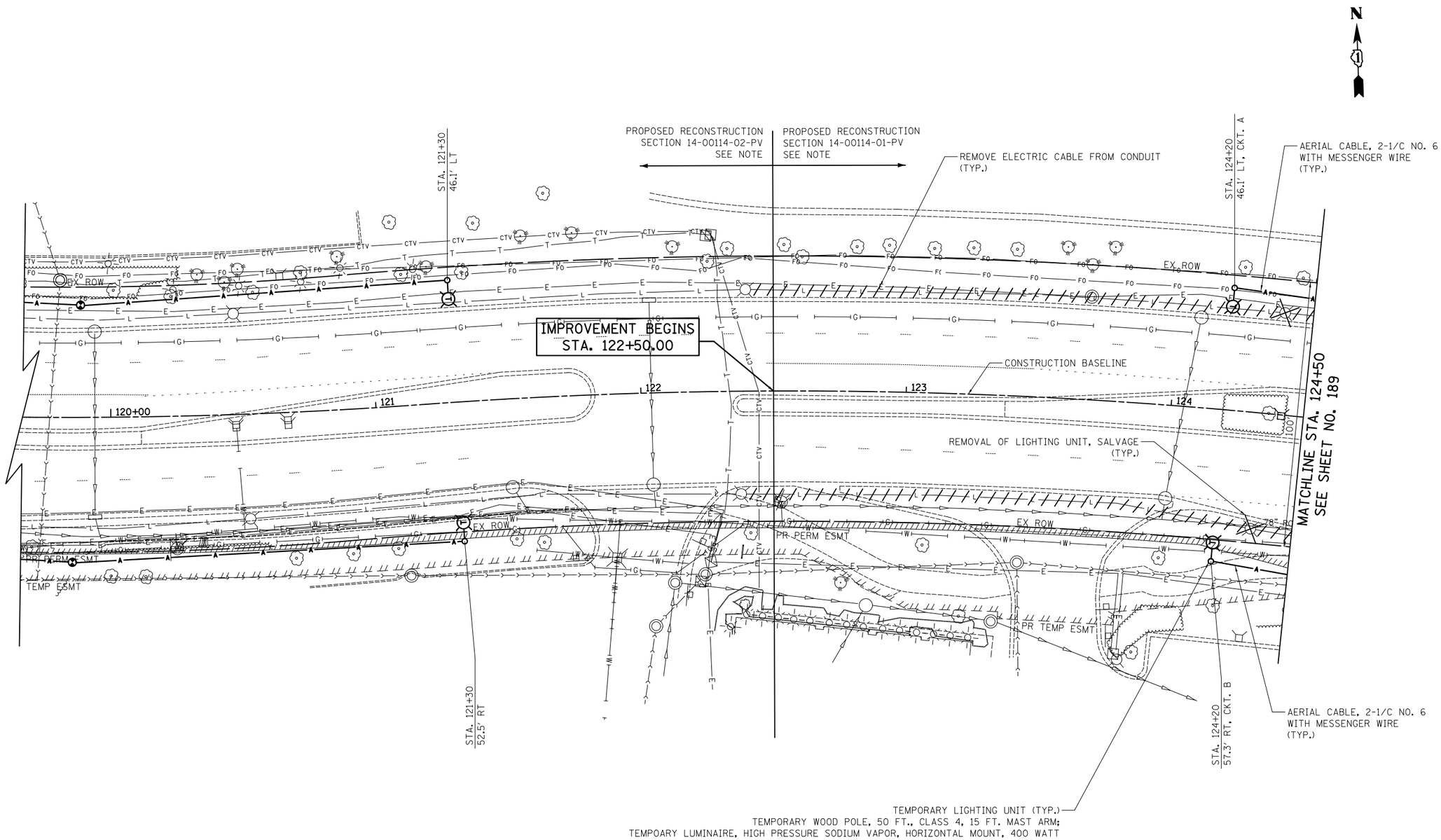
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
LIGHTING LEGEND, GENERAL NOTES, AND BILL OF MATERIAL

SCALE: N.T.S. | SHEET 1 OF 1 SHEETS

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	187
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			



NOTE

PROPOSED RECONSTRUCTION SECTION 14-00114-01-PV AND SECTION 14-00114-02-PV WILL BE ON THE SAME LETTING. THERE WILL ALSO BE TEMPORARY LIGHTING ON SECTION 14-00114-02-PV.

WOODFIELD ROAD

0 20 40 60
SCALE IN FEET

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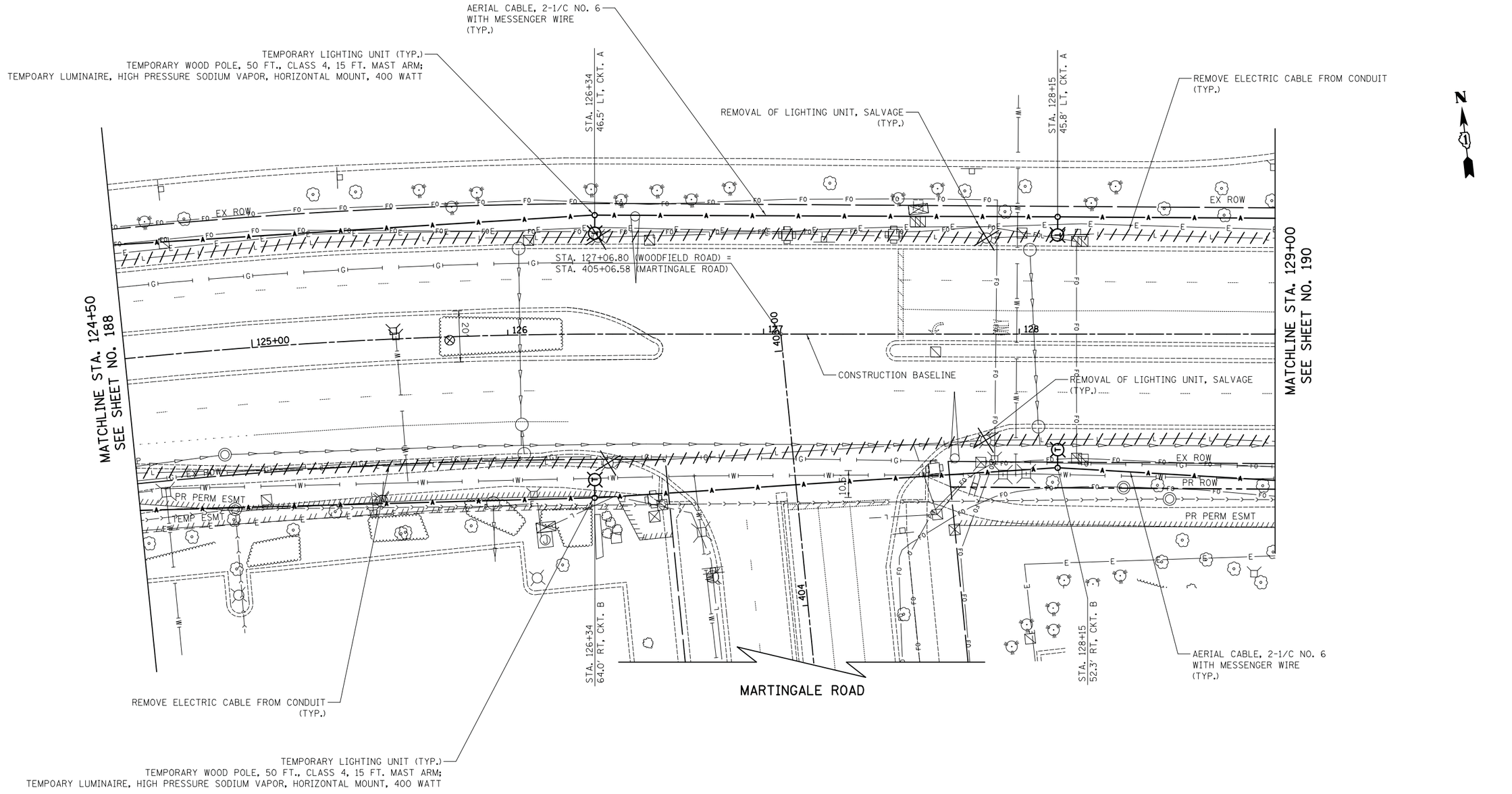
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY LIGHTING PLAN

SCALE: 1" = 20' | SHEET 1 OF 4 SHEETS | STA. 122+50.00 TO STA. 124+50.00

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	188
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			



WOODFIELD ROAD

0 20 40 60
SCALE IN FEET

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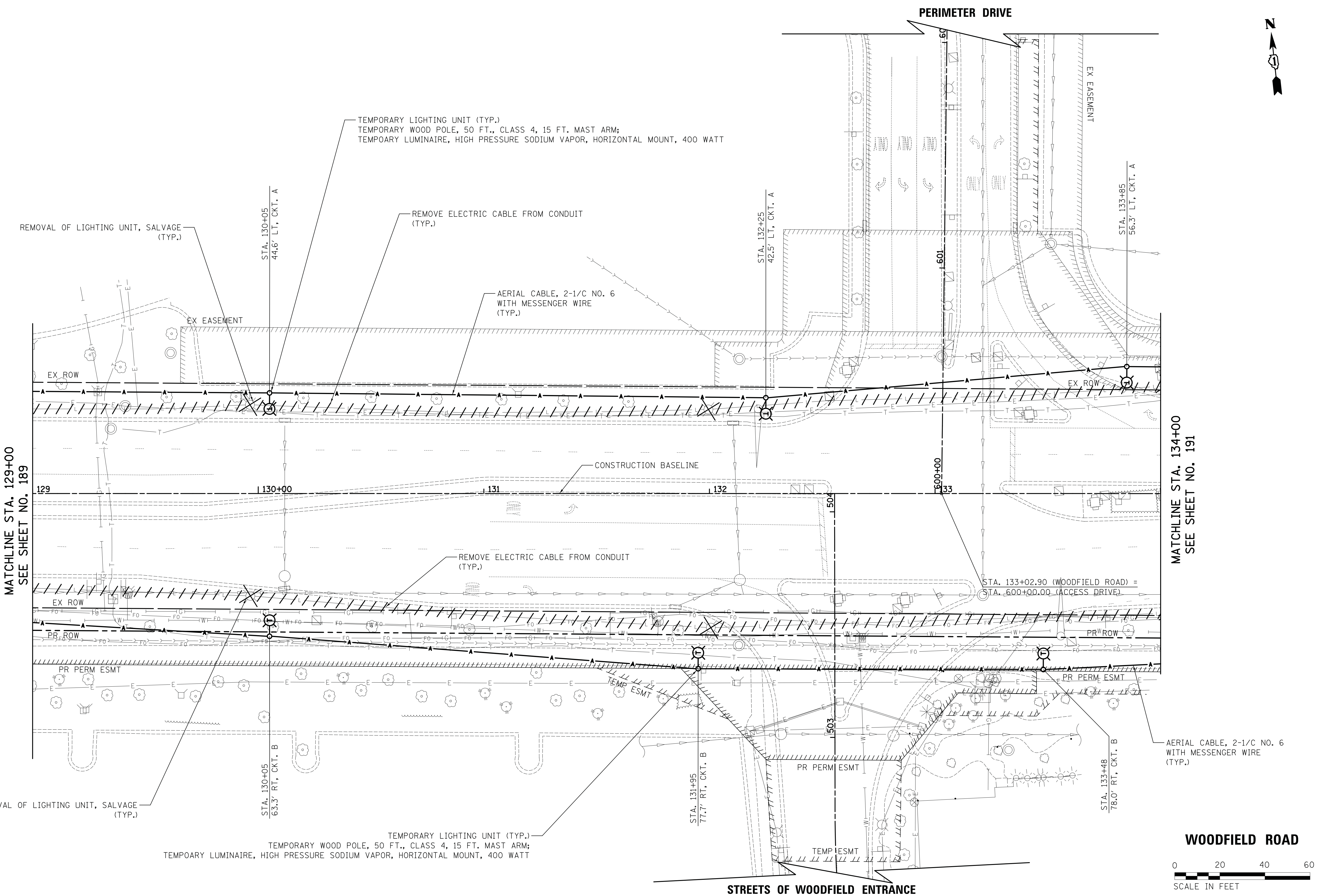
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY LIGHTING PLAN

SCALE: 1" = 20' | SHEET 2 OF 4 SHEETS | STA. 124+50.00 TO STA. 129+00.00

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	189
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			



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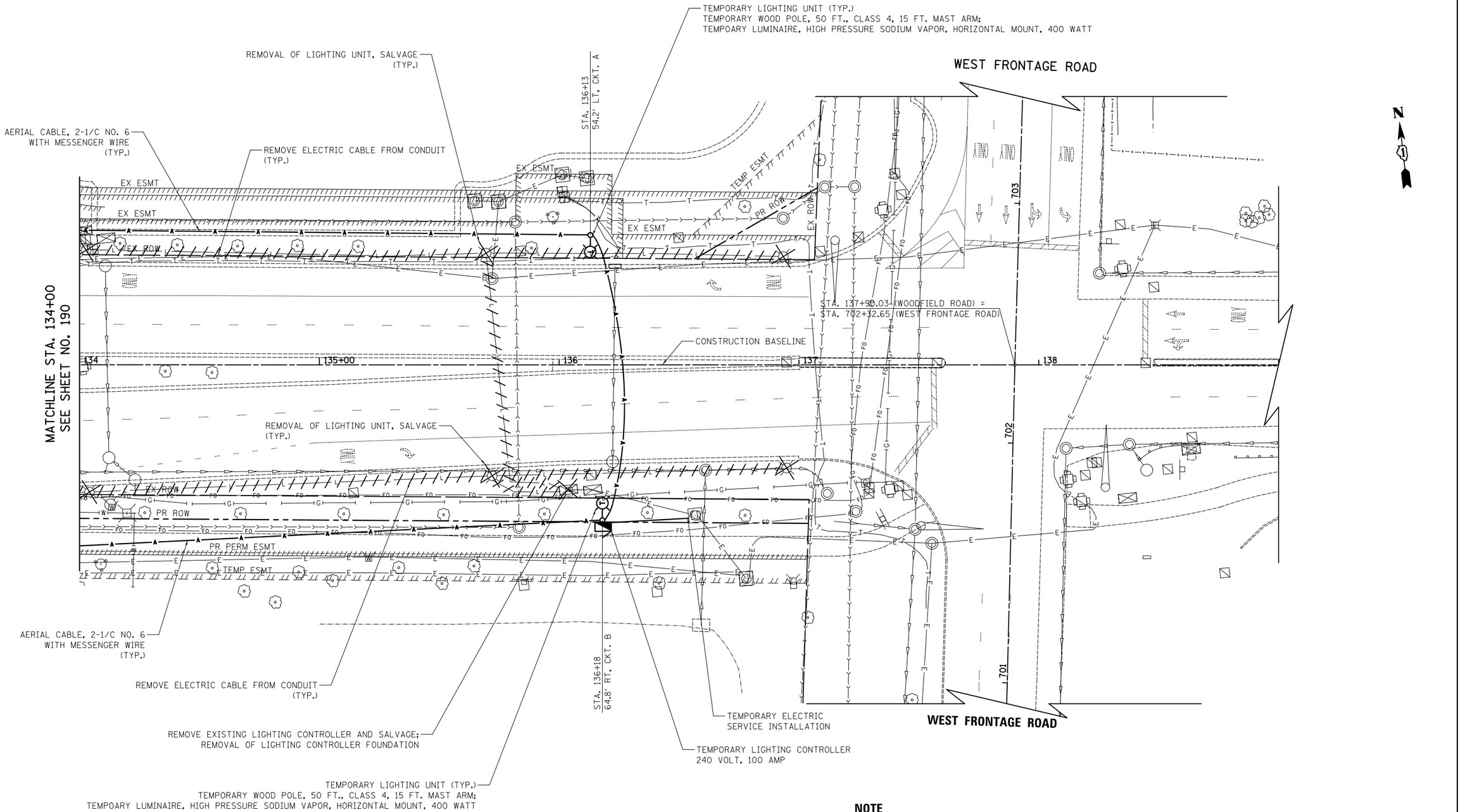
	PLOT SCALE = 20.0000 ' / in.	CHECKED - DNM	REVISED -		
	PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -		SCALE: 1" = 20' SHEET 3 OF 4 SHEETS STA. 129+00.00 TO STA. 134+00.00

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	190
		CONTRACT NO. 61F09		
		ILLINOIS FED. AID PROJECT		



NOTE

WEST FRONTAGE ROAD IS LIT WITH EXISTING HIGH MAST LIGHTING ALONG THE EAST SIDE OF ROAD.

WOODFIELD ROAD

0 20 40 60

SCALE IN FEET

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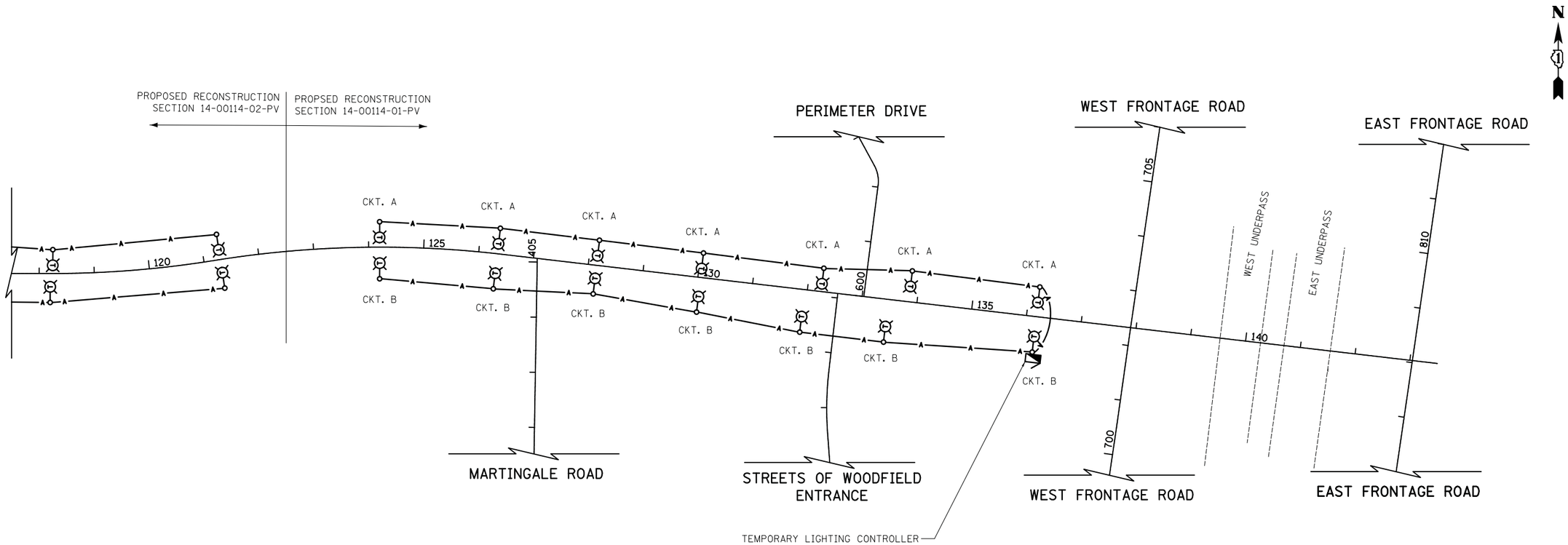
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY LIGHTING PLAN

SCALE: 1" = 20' | SHEET 4 OF 4 SHEETS | STA. 134+00.00 TO STA. 139+00.00

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	191
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			



LEGEND

TEMPORARY SCHAUMBURG LIGHTING UNIT
400 WATT HPS COBRAHEAD
60 FT WOOD POLE (50 FT. MOUNTING HEIGHT)
15 FT MAST ARM

TEMPORARY SCHAUMBURG LIGHTING CONTROLLER
120/240 VOLT

TEMPORARY AERIAL CABLES
(AS SPECIFIED IN THE PLANS)

TEMPORARY LIGHTING CONTROLLER CIRCUIT LOAD TABLE							
BLACK CABLE	QTY	TOTAL AMPS	KW LOAD @ 120V	RED CABLE	QTY	@240V AMPS	KW LOAD @ 120V
A	7	14.0	1.68	A	7	14.0	1.68
B	7	14.0	1.68	B	7	14.0	1.68
TOTAL		28.0	3.36	TOTAL		28.0	3.36

400 WATT HPS LUMINAIRE (240V) = 2.0 AMP

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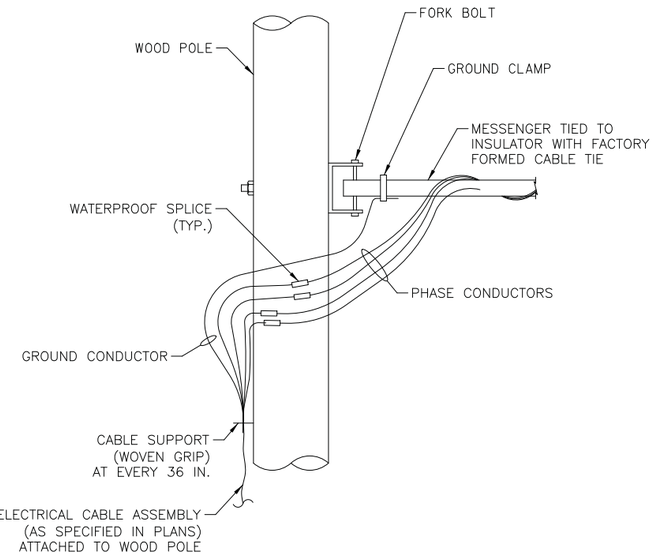
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY LIGHTING WIRING DIAGRAM

SCALE: NTS | SHEET 1 OF 1 SHEETS

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	192
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			



AERIAL CABLE CONNECTION DETAIL

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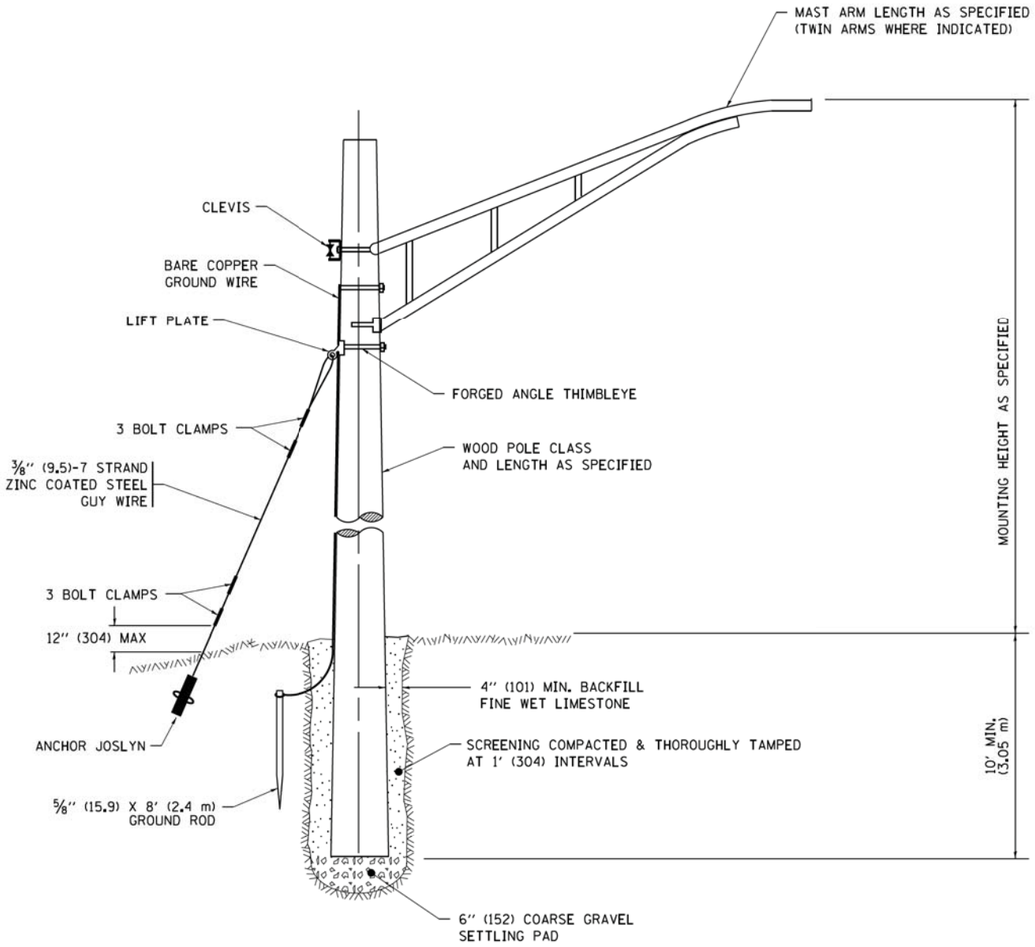
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

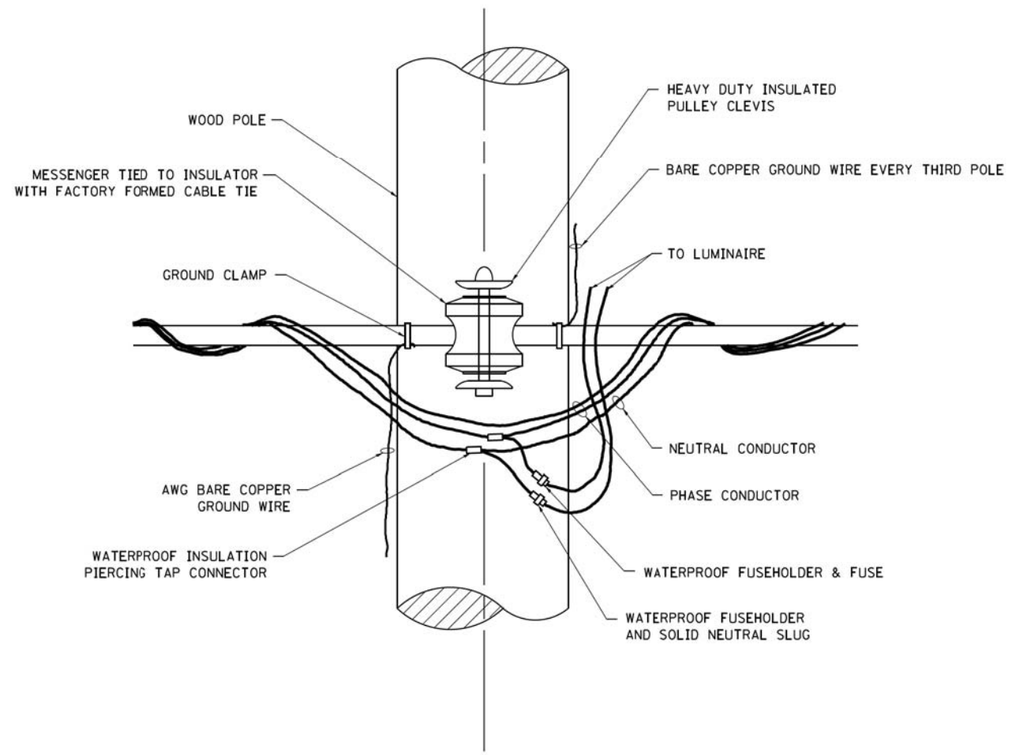
WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
TEMPORARY LIGHTING DETAILS

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

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	193
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			



TEMPORARY LIGHT POLE DETAIL



TEMPORARY LIGHT POLE ATTACHMENT DETAIL

NOTE:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. MAST ARM SHALL BE RATED FOR THE SPECIFIED MOUNTING HEIGHT.

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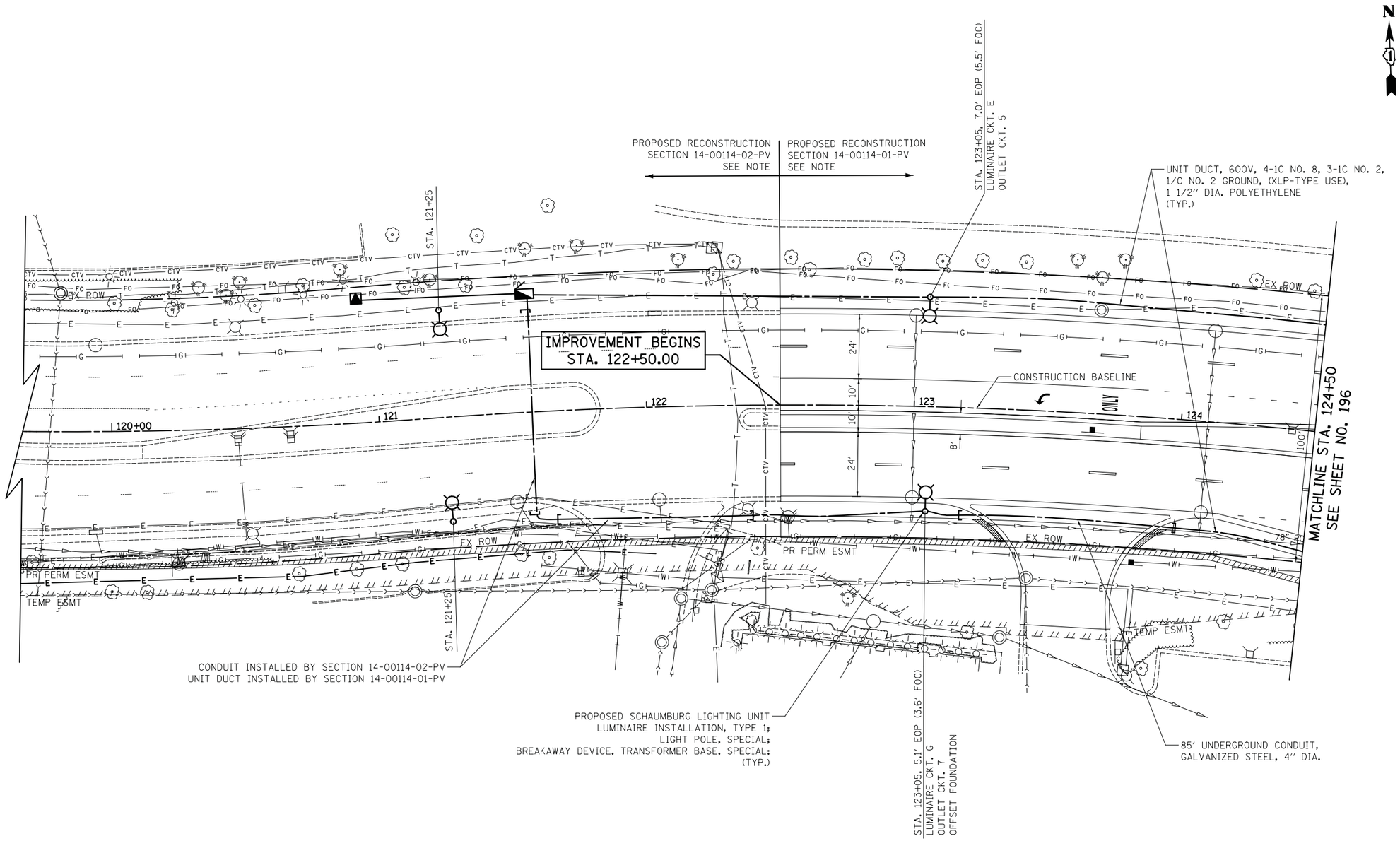
		DATE -	REVISED -		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/1689	14-00114-01-PV	COOK	282	194
	BE-800	CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			



NOTE

PROPOSED RECONSTRUCTION SECTION 14-00114-01-PV AND SECTION 14-00114-02-PV WILL BE ON THE SAME LETTING. THE PROPOSED LIGHTING FOR BOTH SECTIONS WILL BE ON ONE LIGHTING SYSTEM POWERED FROM PROPOSED LIGHTING CONTROLLER AT APPROXIMATE STATION 121+55.

WOODFIELD ROAD

0 20 40 60
SCALE IN FEET

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CIVILTECH

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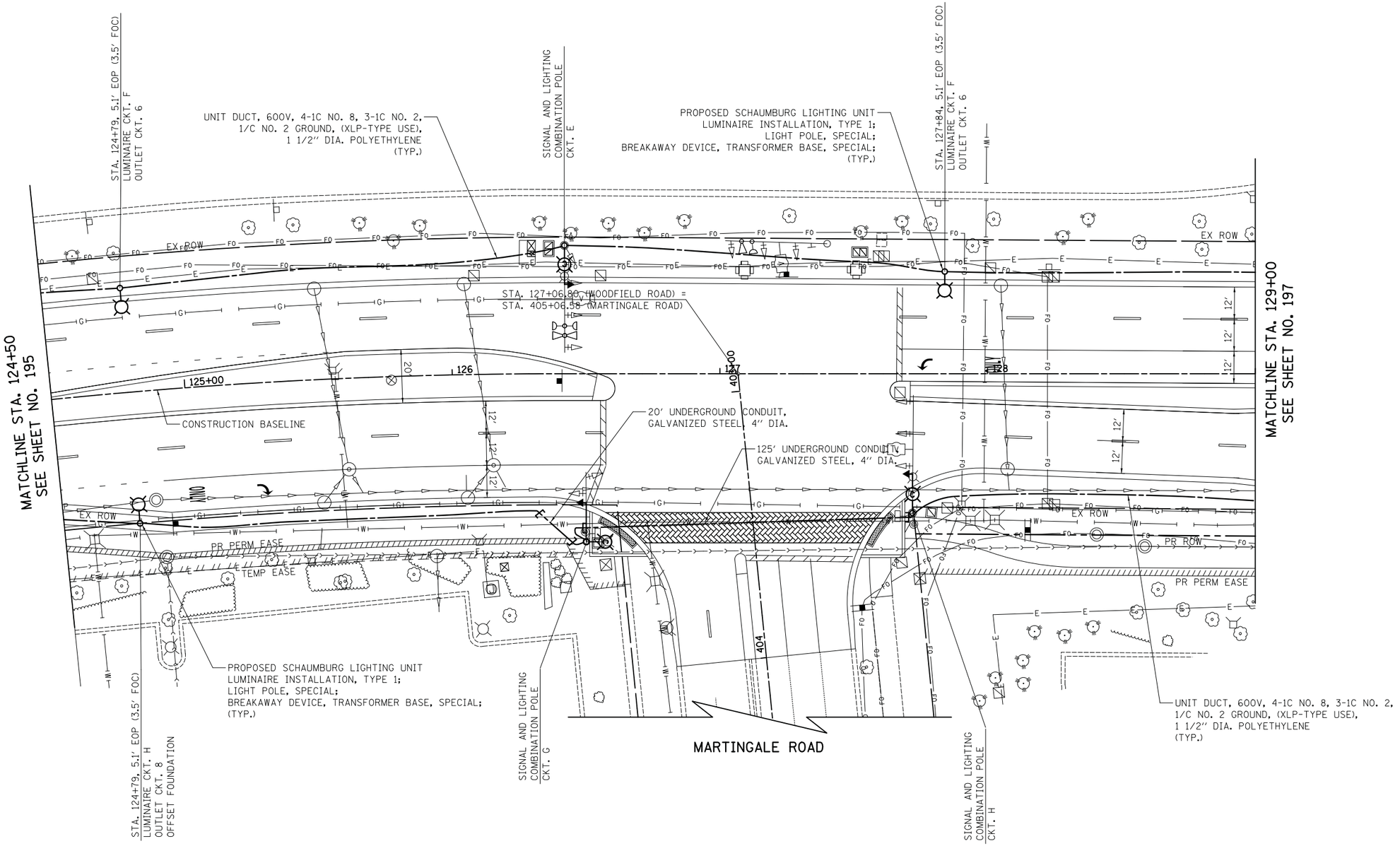
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
LIGHTING PLAN

SCALE: 1" = 20' | SHEET 1 OF 5 SHEETS | STA. 122+50.00 TO STA. 124+50.00

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	195
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			



WOODFIELD ROAD

0 20 40 60

SCALE IN FEET

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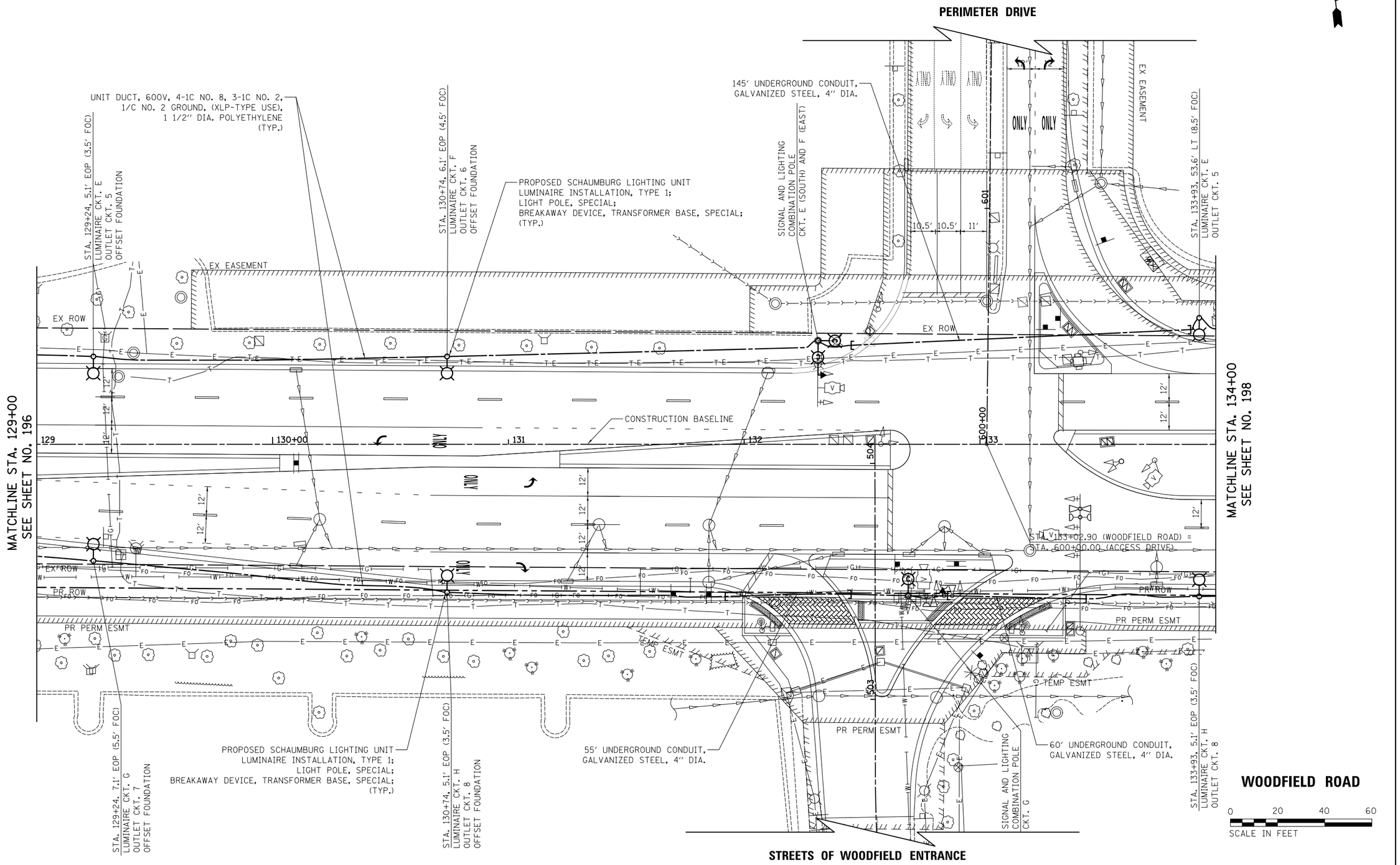
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
LIGHTING PLAN

SCALE: 1" = 20' | SHEET 2 OF 5 SHEETS | STA. 124+50.00 TO STA. 129+00.00

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	196
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			



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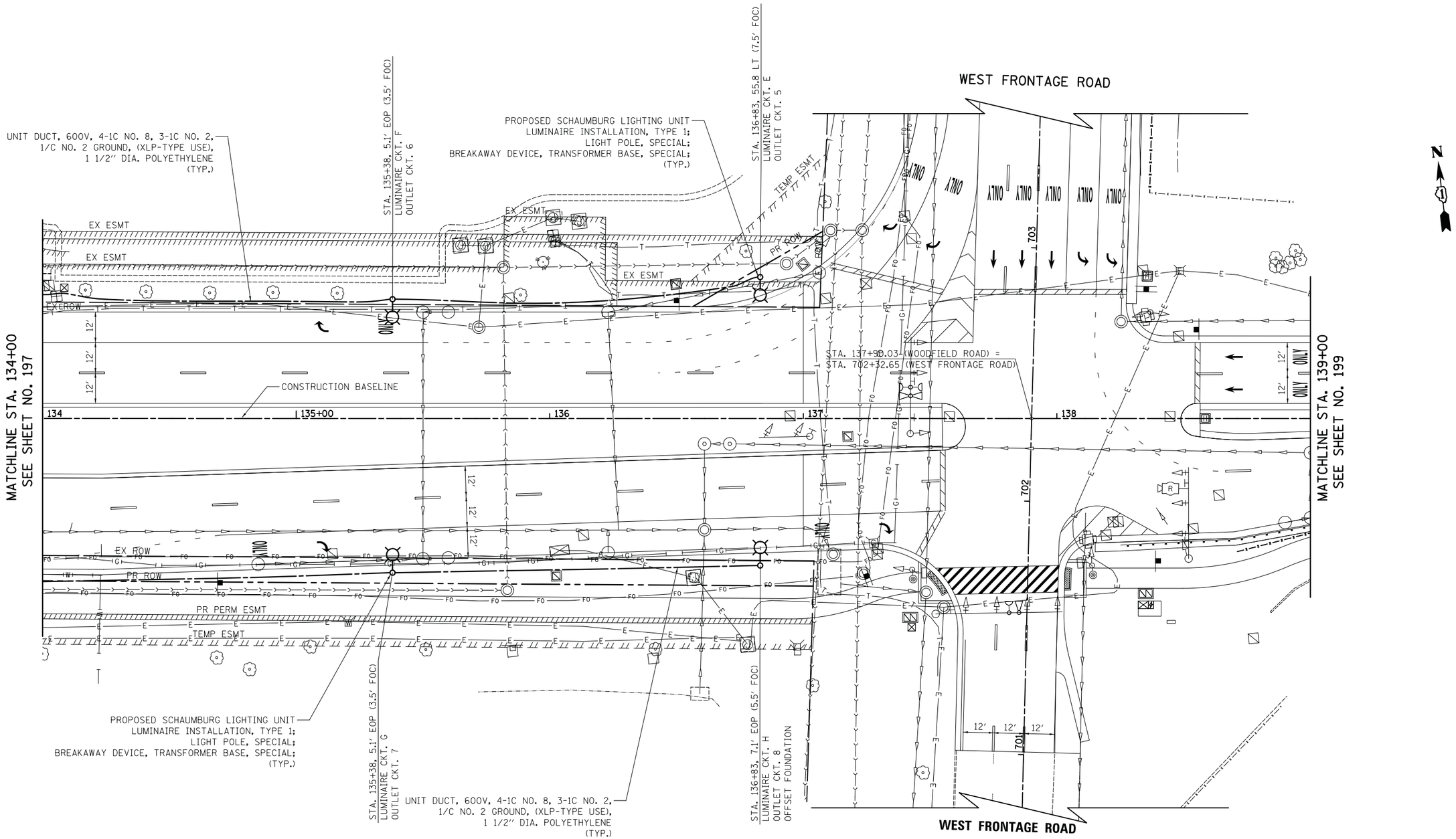
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
LIGHTING PLAN

SCALE: 1" = 20' | SHEET 3 OF 5 SHEETS | STA.129+00.00 TO STA.134+00.00

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	197
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			



NOTE

WEST FRONTAGE ROAD IS LIT WITH EXISTING HIGH MAST LIGHTING ALONG THE EAST SIDE OF ROAD.

WOODFIELD ROAD

0 20 40 60

SCALE IN FEET

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CIVILTECH

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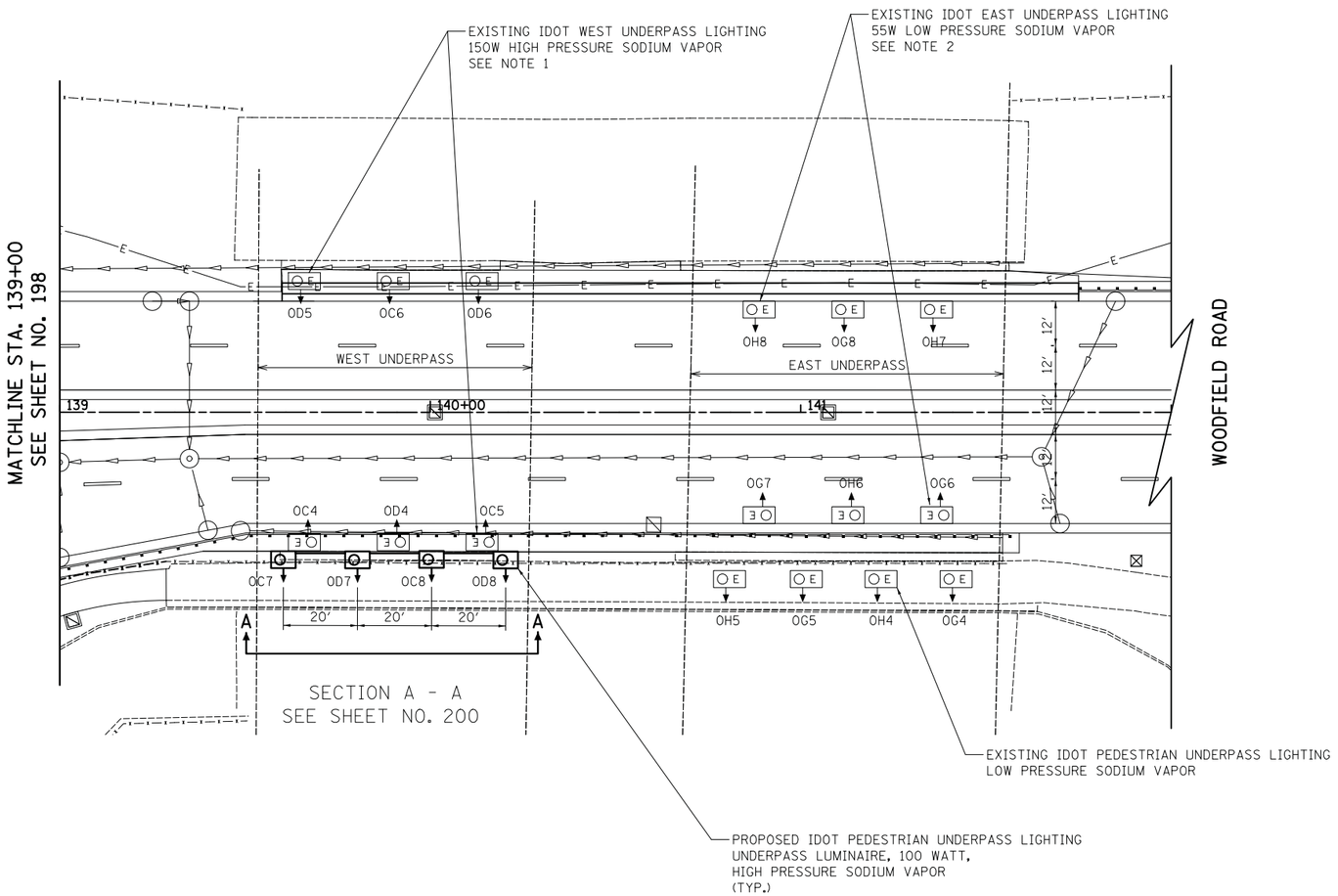
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
LIGHTING PLAN

SCALE: 1" = 20' | SHEET 4 OF 5 SHEETS | STA. 134+00.00 TO STA. 139+00.00

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	198
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			

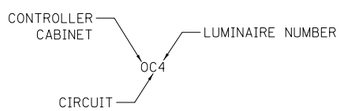


N

NOTES

1. EXISTING IDOT WEST UNDERPASS ROADWAY LIGHTING IS HIGH PRESSURE SODIUM LUMINAIRE. THERE IS NO EXISTING PEDESTRIAN UNDERPASS LIGHTING.

2. EXISTING IDOT EAST UNDERPASS ROADWAY AND PEDESTRIAN LUMINAIRES ARE LOW PRESSURE SODIUM.



WOODFIELD ROAD

0 20 40 60
SCALE IN FEET

FILE NAME = ...\16-Lighting\3074_LT_13.dgn

CIVILTECH

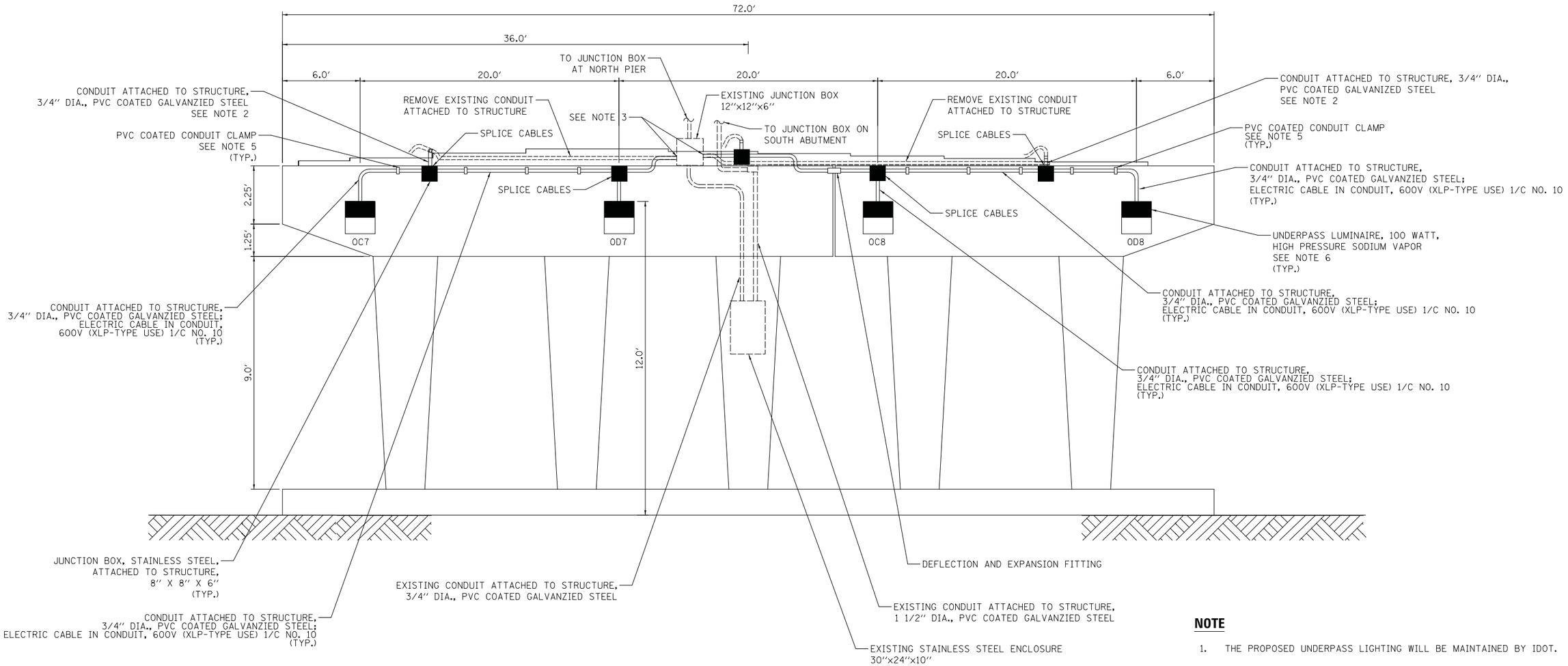
USER NAME = djk	DESIGNED - SJC	REVISED -
	DRAWN - SJC	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - DNM	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

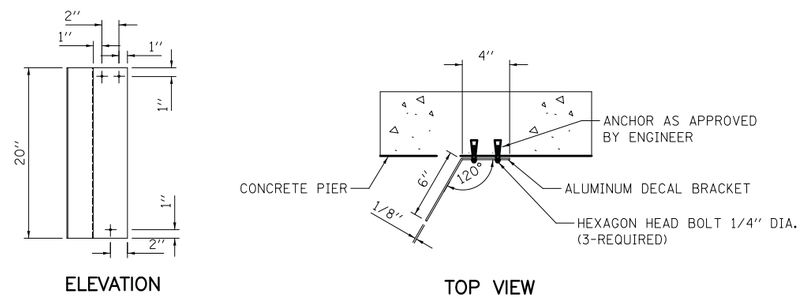
WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
LIGHTING PLAN

SCALE: 1'' = 20' | SHEET 5 OF 5 SHEETS | STA. 139+00.00 | TO STA. 142+00.00

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	199
		CONTRACT NO. 61F09		
	ILLINOIS FED. AID PROJECT			



WOODFIELD ROAD WEST UNDERPASS SOUTH PIER
SECTION A – A

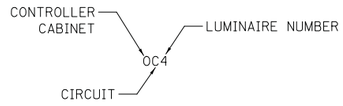


ELEVATION

TOP VIEW

LUMINIAIRE NUMBERING DECAL BRACKET MOUNTING DETAIL

PVC COATED CONDUIT CLAMP



NOTE

1. THE PROPOSED UNDERPASS LIGHTING WILL BE MAINTAINED BY IDOT.
2. CONNECT EXISTING UNDERPASS LUMINAIRE FLEXIBLE CONDUIT TO PROPOSED CONDUIT WITH APPROPRIATE CONNECTORS AND FITTINGS. SPLICE EXISITNG UNDERPASS LUMINAIRE CABLES TO PROPOSED PEDESTRIAN UNDERPASS LUMINAIRE CABLES IN JUNCTION BOX.
3. REMOVE EXISTING CONDUIT AND CONNECT PROPOSED CONDUIT INTO EXISTING JUNCTION BOX. ALL BURRS AND ROUGH EDGES SHALL BE SMOOTH PRIOR TO INSTALLATION OF CONDUIT INTO THE JUNCTION BOX.
4. EXISTING UNDERPASS LIGHTING WILL REMAIN OPERATIONAL DURING CONSTRUCTION. SPLING PROPOSED PEDESTRIAN UNDERPASS LIGHTING TO EXISTING UNDERPASS LIGHTING SYSTEM WILL BE COORDINATED AND COMPLETED ON THE SAME DAY WITHOUT ANY INTERRUPTION OF OPERATION OF THE EXISTING SYSTEM FOR THAT EVENING.
5. SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS AS SHOW AT 5' INTERVALS FOR LATERALS AND WITHIN 2' MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS SHALL BE INCLUDED WITH THE COST OF CONDUIT ATTACHED TO STRUCTURE.
6. ATTACH LUMINAIRE TO BRIDGE PIER WITH EXPANSION ANCHORS. THE NUMBER AND SIZE OF ANCHORS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. SEE THE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS. POWER ACTUATED FASTENERS WILL NOT BE ALLOWED.

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CIVILTECH

USER NAME = djk	DESIGNED - SJC	REVISED -
	DRAWN - SJC	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - DNM	REVISED -
PLOT DATE = 2/12/2019	DATE - 01/28/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOODFIELD ROAD – MARTINGALE ROAD TO EAST FRONTAGE ROAD
LIGHTING DETAILS

SCALE: NTS | SHEET 1 OF 1 SHEETS

MUN/FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3073/ 1689	14-00114-01-PV	COOK	282	200
		CONTRACT NO. 61F09		
		ILLINOIS FED. AID PROJECT		