

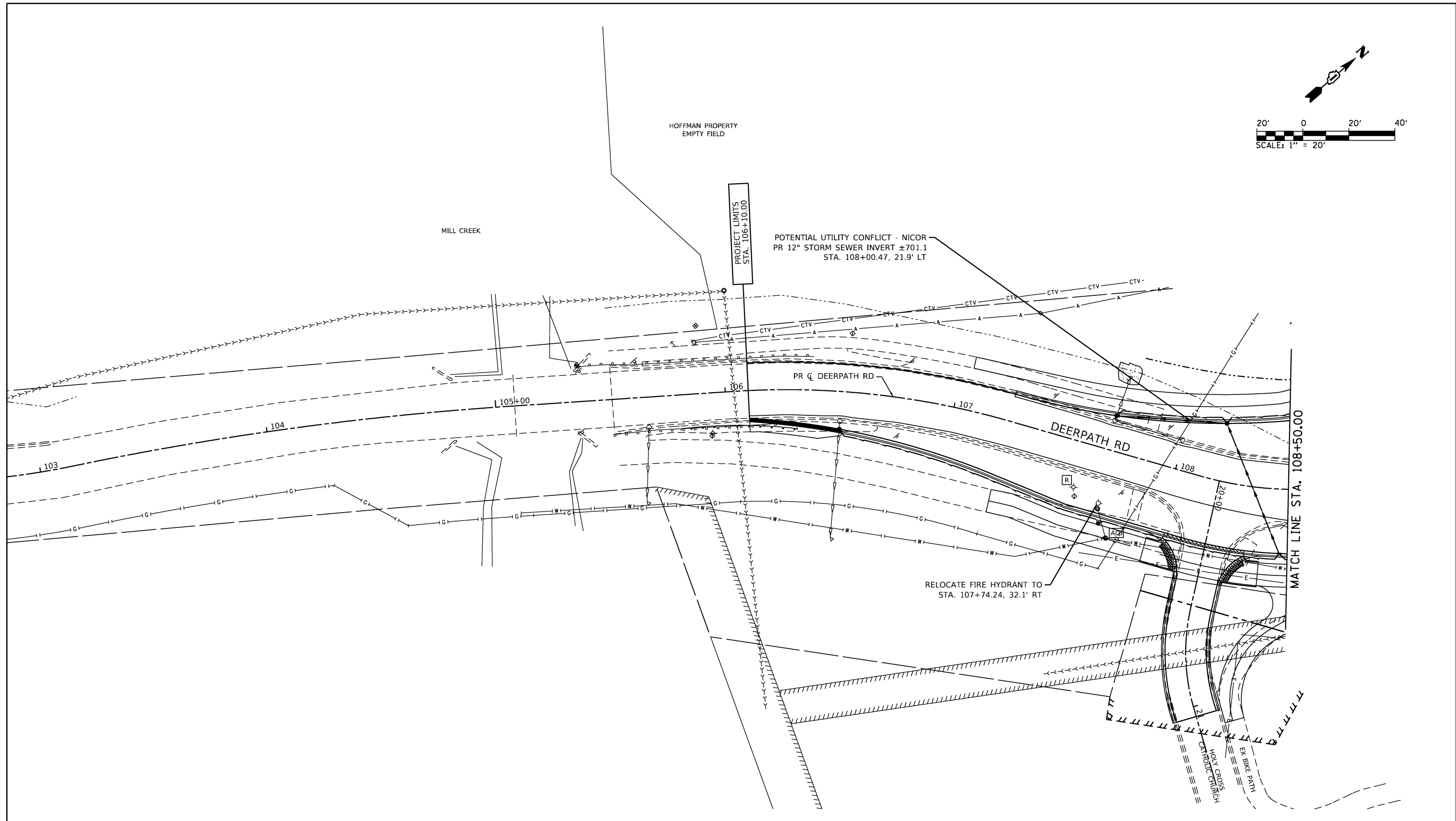
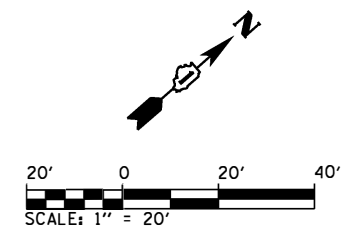
UTILITY PLAN LEGEND

— A —	EXISTING AERIAL ELECTRIC/CABLE/TELEPHONE	— T —	EXISTING BURIED TELEPHONE	⊠	EXISTING JUNCTION BOX	◀	PROPOSED FLARED END SECTION
— CTV —	EXISTING BURIED CABLE TELEVISION	— W —	EXISTING BURIED WATER	⊙	EXISTING VALVE BOX, VAULT, OR MANHOLE	→	PROPOSED STORM SEWER
— E —	EXISTING BURIED ELECTRIC	— S —	EXISTING BURIED STORM SEWER	⊙	PROPOSED MANHOLE	•	PROPOSED FOUNDATION
— G —	EXISTING BURIED GAS LINE	⊕	EXISTING UTILITY POLE	●	PROPOSED CATCH BASIN	⊠	PROPOSED TRAFFIC SIGNAL
— S —	EXISTING BURIED SANITARY SEWER	⊕	EXISTING FIRE HYDRANT	—	PROPOSED INLET	—	PROPOSED UNDERGROUND CABLE

NOTES:

- ALL STATIONS AND OFFSETS ARE REFERENCED FROM THE MAIN STREET OR DEERPETH ROAD PROPOSED CENTERLINE, UNLESS OTHERWISE NOTED.
- THE UNIT PRICE BID FOR FIRE HYDRANTS TO BE REMOVED SHALL INCLUDE. RELOCATION OF THE HYDRANT, AUXILIARY VALVE, CONNECTION, DISINFECTION, TESTING, EXCAVATION, BACKFILL, AND REMOVAL OF SURPLUS MATERIAL INCLUDING HYDRANT LEED.

<p>License No. 184-000613</p>	FILE NAME = D:\1M4003-shl-ut\files04.dgn MODEL NAME = Default PLOT SCALE = 40,0000' / in. PLOT DATE = 9/6/2018 - 12:59:31 PM	DESIGNED - BRF DRAWN - ERD CHECKED - JWD DATE - 9/7/2018	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	UTILITY PLAN MAIN ST		F.A.P. RTE. = 524 SECTION = 14-00448-00-CH COUNTY = KANE ILLINOIS FED. AID PROJECT	TOTAL SHEETS = 183 SHEET NO. = 101 CONTRACT NO. = 61E67
	SCALE: 1"=20' SHEET 4 OF 6 SHEETS STA. 513+00 TO STA. 519+00							



UTILITY PLAN LEGEND

— A —	EXISTING AERIAL ELECTRIC/CABLE/TELEPHONE	— T —	EXISTING BURIED TELEPHONE	⊠	EXISTING JUNCTION BOX	◀	PROPOSED FLARED END SECTION
— CTV —	EXISTING BURIED CABLE TELEVISION	— W —	EXISTING BURIED WATER	●	EXISTING VALVE BOX, VAULT, OR MANHOLE	→	PROPOSED STORM SEWER
— E —	EXISTING BURIED ELECTRIC	— S —	EXISTING BURIED STORM SEWER	○	PROPOSED MANHOLE	•	PROPOSED FOUNDATION
— G —	EXISTING BURIED GAS LINE	⊕	EXISTING UTILITY POLE	●	PROPOSED CATCH BASIN	⊠	PROPOSED TRAFFIC SIGNAL
->->->	EXISTING BURIED SANITARY SEWER	⊕	EXISTING FIRE HYDRANT	—	PROPOSED INLET	---	PROPOSED UNDERGROUND CABLE

NOTES:

1. ALL STATIONS AND OFFSETS ARE REFERENCED FROM THE MAIN STREET OR DEERPETH ROAD PROPOSED CENTERLINE, UNLESS OTHERWISE NOTED.
2. THE UNIT PRICE BID FOR FIRE HYDRANTS TO BE REMOVED SHALL INCLUDE RELOCATION OF THE HYDRANT, AUXILIARY VALVE, CONNECTION, DISINFECTION, TESTING, EXCAVATION, BACKFILL, AND REMOVAL OF SURPLUS MATERIAL INCLUDING HYDRANT LEED.



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

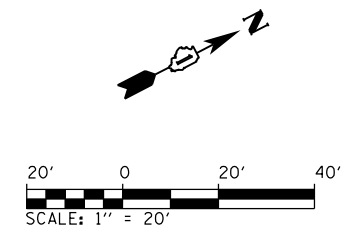
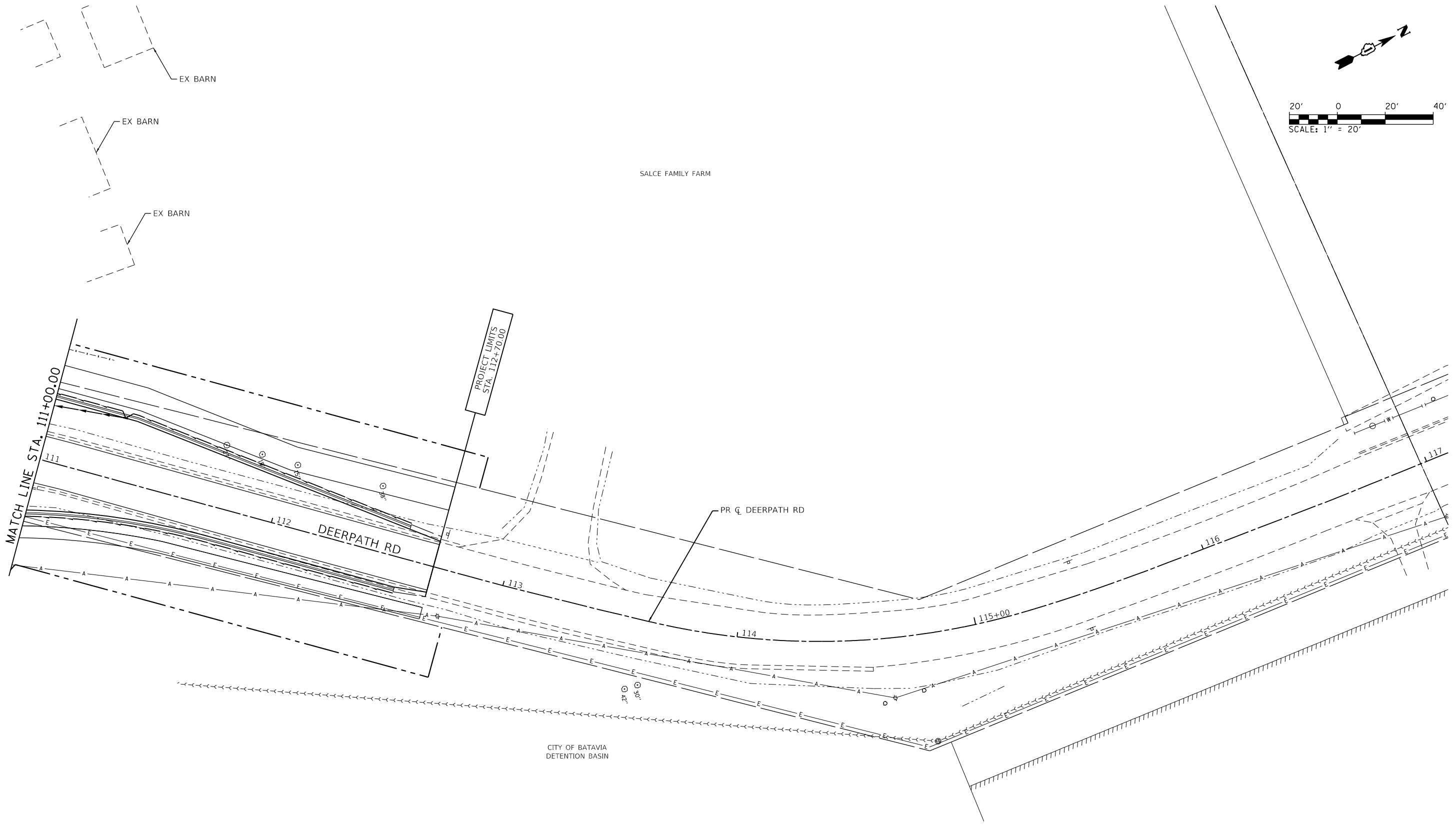
UTILITY PLAN DEERPETH RD	
SCALE: 1"=20'	SHEET 5 OF 6 SHEETS
STA. 102+50	TO STA. 108+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	102
CONTRACT NO.			61E67	
ILLINOIS		FED. AID PROJECT		

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USER NAME = Brad Feltch
DIRECTORY = L:\Batavia\112\112.dwg\Draw\CADD_Sheets\...



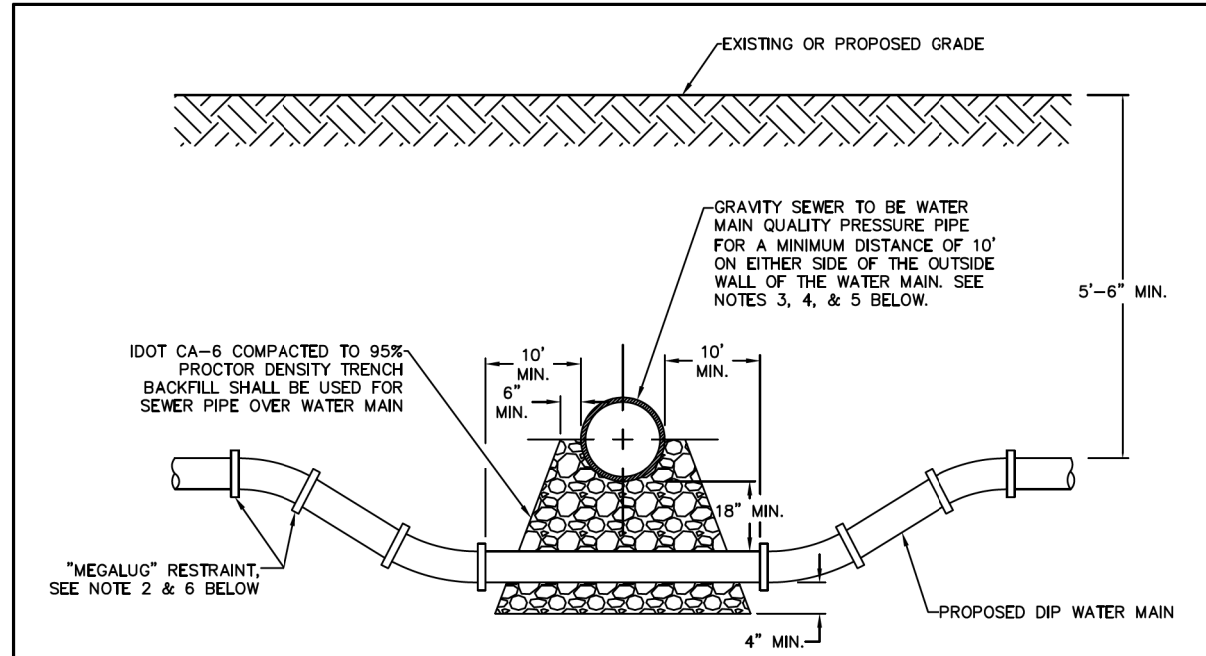
UTILITY PLAN LEGEND

— A —	EXISTING AERIAL ELECTRIC/CABLE/TELEPHONE	— T —	EXISTING BURIED TELEPHONE	⊠	EXISTING JUNCTION BOX	◀	PROPOSED FLARED END SECTION
— CTV —	EXISTING BURIED CABLE TELEVISION	— W —	EXISTING BURIED WATER	⊙	EXISTING VALVE BOX, VAULT, OR MANHOLE	→	PROPOSED STORM SEWER
— E —	EXISTING BURIED ELECTRIC	— S —	EXISTING BURIED STORM SEWER	⊙	PROPOSED MANHOLE	•	PROPOSED FOUNDATION
— G —	EXISTING BURIED GAS LINE	⊕	EXISTING UTILITY POLE	●	PROPOSED CATCH BASIN	⊠	PROPOSED TRAFFIC SIGNAL
— S —	EXISTING BURIED SANITARY SEWER	⊕	EXISTING FIRE HYDRANT	—	PROPOSED INLET	---	PROPOSED UNDERGROUND CABLE

NOTES:

- ALL STATIONS AND OFFSETS ARE REFERENCED FROM THE MAIN STREET OR DEERPETH ROAD PROPOSED CENTERLINE, UNLESS OTHERWISE NOTED.
- THE UNIT PRICE BID FOR FIRE HYDRANTS TO BE REMOVED SHALL INCLUDE. RELOCATION OF THE HYDRANT, AUXILIARY VALVE, CONNECTION, DISINFECTION, TESTING, EXCAVATION, BACKFILL, AND REMOVAL OF SURPLUS MATERIAL INCLUDING HYDRANT LEED.

<p>License No. 184-000613</p>	FILE NAME = D:\114\003-shi-utl\112.dwg MODEL NAME = Default PLOT SCALE = 40,0000' / in. PLOT DATE = 9/6/2018 - 12:59:33 PM	DESIGNED - BRF DRAWN - ERD CHECKED - JWD DATE - 9/7/2018	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	UTILITY PLAN DEERPETH RD			F.A.P. RTE. = 524 SECTION = 14-00448-00-CH COUNTY = KANE ILLINOIS FED. AID PROJECT	TOTAL SHEETS = 183 SHEET NO. = 103 CONTRACT NO. = 61E67
	SCALE: 1"=20' SHEET 6 OF 6 SHEETS STA. 111+00 TO STA. 117+00								



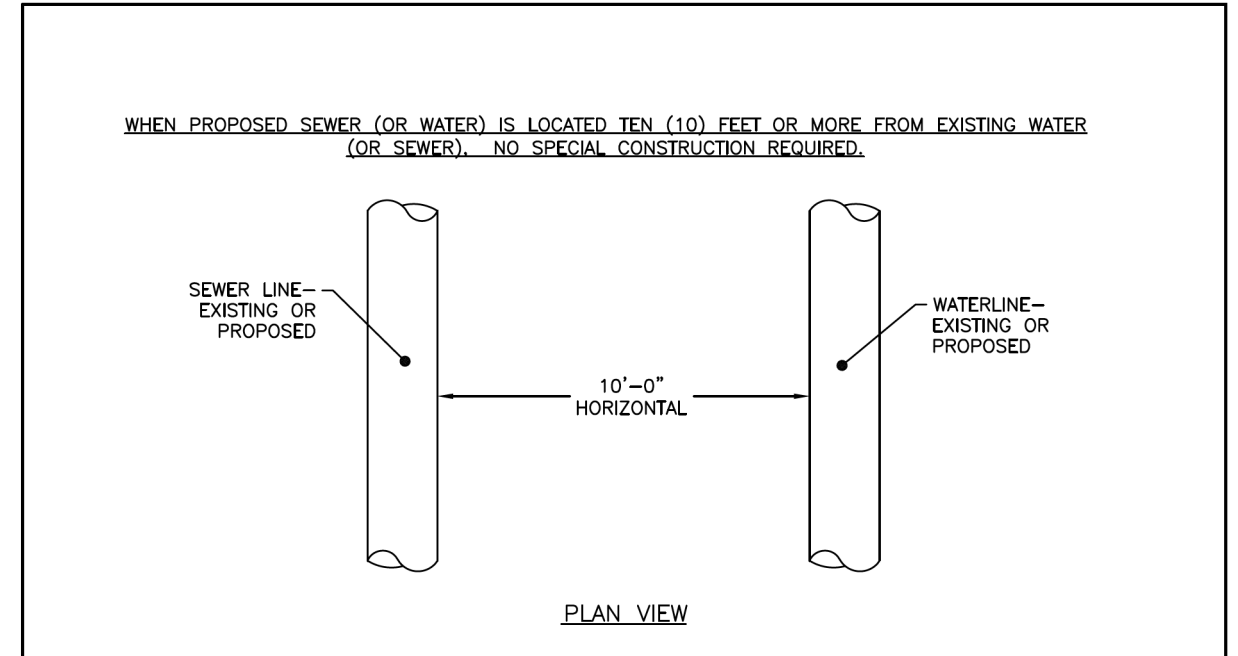
NOTES:

- HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWERS SHALL COMPLY WITH CITY OF BATAVIA DESIGN MANUAL OR IEPA STANDARDS, WHICHEVER IS MORE STRINGENT.
- CONTRACTOR MAY BEND WATER MAIN PIPE UNIFORMLY UNDER SEWERS WITHOUT USING FITTINGS PROVIDED THAT JOINT DEFLECTION DOES NOT EXCEED 5 DEGREES PER JOINT FOR PIPE UNDER 14" IN DIAMETER AND 3 DEGREES PER JOINT FOR PIPE 14" AND OVER IN DIAMETER. IF FITTINGS ARE USED, CONTINUOUS STRAPPING WITH RODS, STRAPS, NUTS AND BOLTS BELOW NORMAL WATERMAIN DEPTH ARE REQUIRED, OR RETAINER GLANDS MAY BE USED IN LIEU OF STRAPPING. RETAINER GLANDS TO BE "MEGALUG" RESTRAINT, SERIES 1100 OR APPROVED EQUAL WITH "COR-TEN" BOLTS.
- ALL SANITARY SEWER (INCLUDING SERVICE) CROSSINGS WHERE THE WATER MAINS OR WATER SERVICES ARE LESS THAN 18" VERTICALLY ABOVE THE SEWER SHALL BE POLYVINYL CHLORIDE PRESSURE PIPE (SDR 26 MINIMUM) AND SHALL CONFORM WITH THE LATEST REVISION OF ASTM D-2241 OR AWWA C900/905. JOINTS SHALL CONFORM TO ASTM D-3139 AND ELASTOMERIC GASKETS SHALL CONFORM TO ASTM F-477. THE SAME PIPE AND JOINT MATERIALS SHALL BE USED WHENEVER WATER MAIN CROSSES BELOW THE SEWER.
- ALL STORM SEWER (INCLUDING SERVICE) CROSSINGS WHERE THE WATER MAINS ARE LESS THAN 18" VERTICALLY ABOVE THE SEWER SHALL BE REINFORCED CONCRETE PIPE, ASTM C-361, CLASS D-25, WITH BELL AND SPIGOT JOINTS AND RUBBER GASKETS, OR PVC SDR 26 AS SPECIFIED IN NOTE 3 ABOVE. THE SAME PIPE AND JOINT MATERIAL SHALL BE USED WHENEVER WATER MAIN CROSSES BELOW THE SEWER.
- FOR NEW SEWER INSTALLATIONS CROSSING OVER WATER MAINS, THE ENTIRE RUN OF NEW SEWER SHALL BE WATER MAIN QUALITY PIPE, EXTENDING FROM STRUCTURE TO STRUCTURE ON EACH SIDE OF THE CROSSING.
- ALL JOINTS WITHIN "L" LENGTH OF FITTING MUST BE RESTRAINED. REFER TO CITY OF BATAVIA "WATER MAIN RESTRAINT" TYPICAL DETAIL FOR MINIMUM RESTRAINED LENGTHS.

NOT TO SCALE

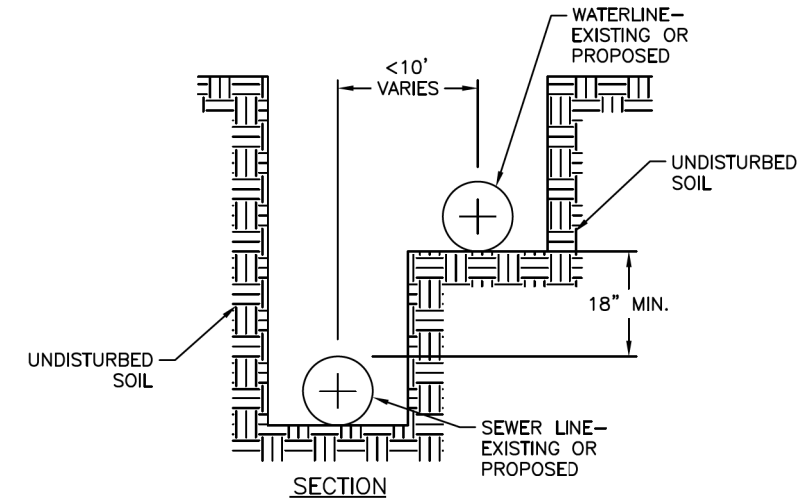
BATAVIA
CITY OF BATAVIA
PUBLIC WORKS DEPARTMENT
SHEET: 1 OF 1
DATE: 1/1/16

WATER MAIN CROSSING
STANDARD NO. 6.06



PLAN VIEW

WHEN PROPOSED SEWER (OR WATER) IS LOCATED LESS THAN TEN (10) FEET FROM EXISTING WATER (OR SEWER) THE DETAIL BELOW SHALL APPLY.



SECTION

NOTES:

- FOR FURTHER INFORMATION REGARDING THE WATER AND SEWER SEPARATION REQUIREMENTS SEE THE LATEST EDITION OF THE "ILLINOIS STANDARDS SPECIFICATION FOR SEWER AND WATER CONSTRUCTION IN ILLINOIS."
- REFER TO THE CITY OF BATAVIA "WATER MAIN CROSSING" DETAIL FOR DETAILED REQUIREMENTS FOR PROPOSED WATER MAIN CROSSING UNDER A SEWER.

NOT TO SCALE

BATAVIA
CITY OF BATAVIA
PUBLIC WORKS DEPARTMENT
SHEET: 1 OF 1
DATE: 01/01/2016

WATER AND SEWER SEPARATION
STANDARD NO. 6.05

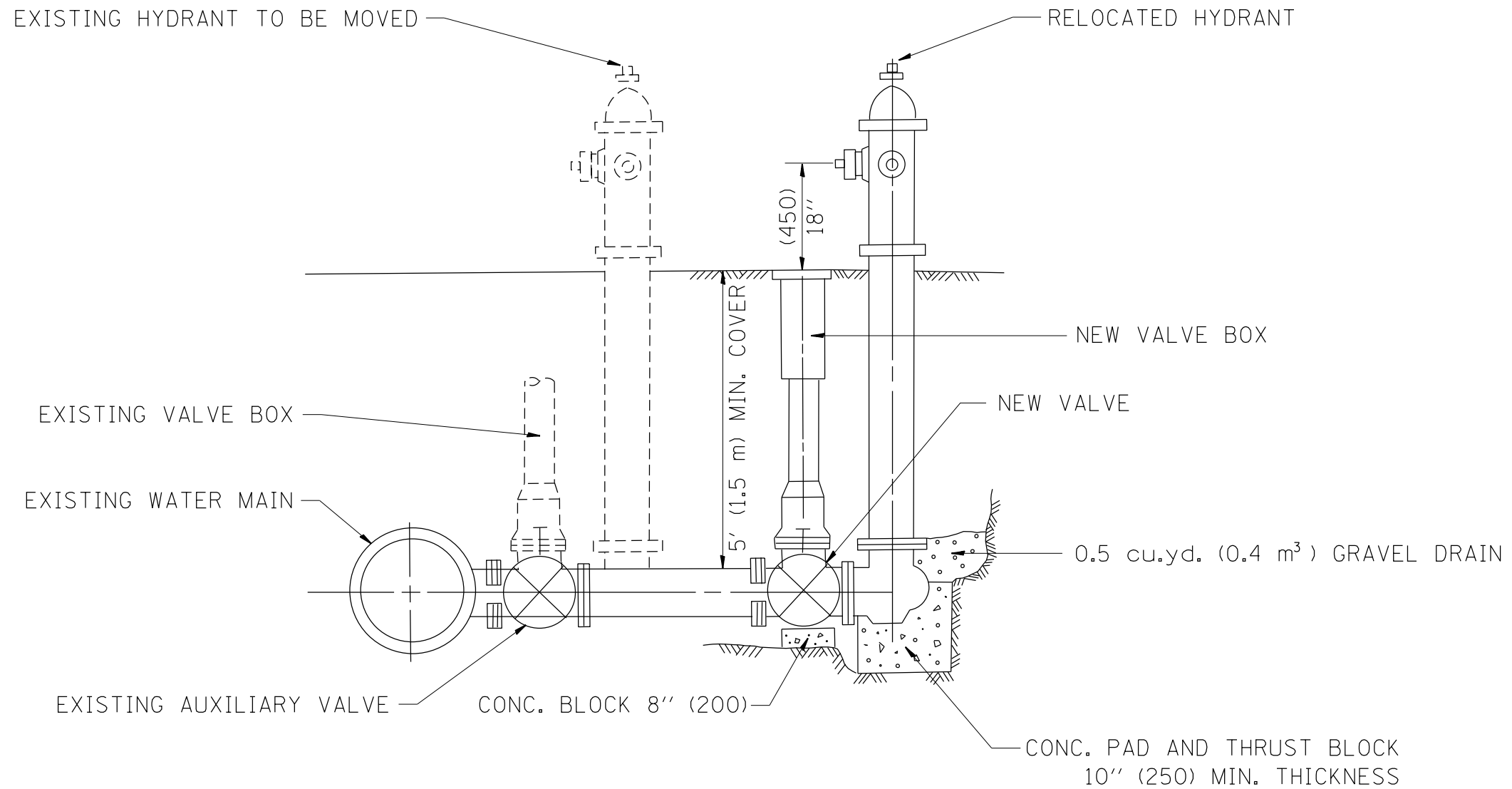


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PLOT DATE = 9/6/2016 - 12:59:35 PM	DATE - 9/7/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

UTILITY DETAILS - CITY OF BATAVIA			
WATER MAIN CROSSING / WATER AND SEWER SEPARATION			
SCALE:	SHEET 1	OF 2 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	104
CONTRACT NO.			61E67	
ILLINOIS		FED. AID PROJECT		



SEQUENCE OF CONSTRUCTION

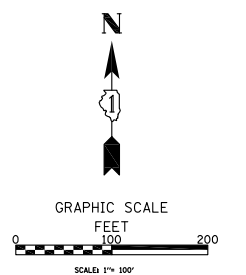
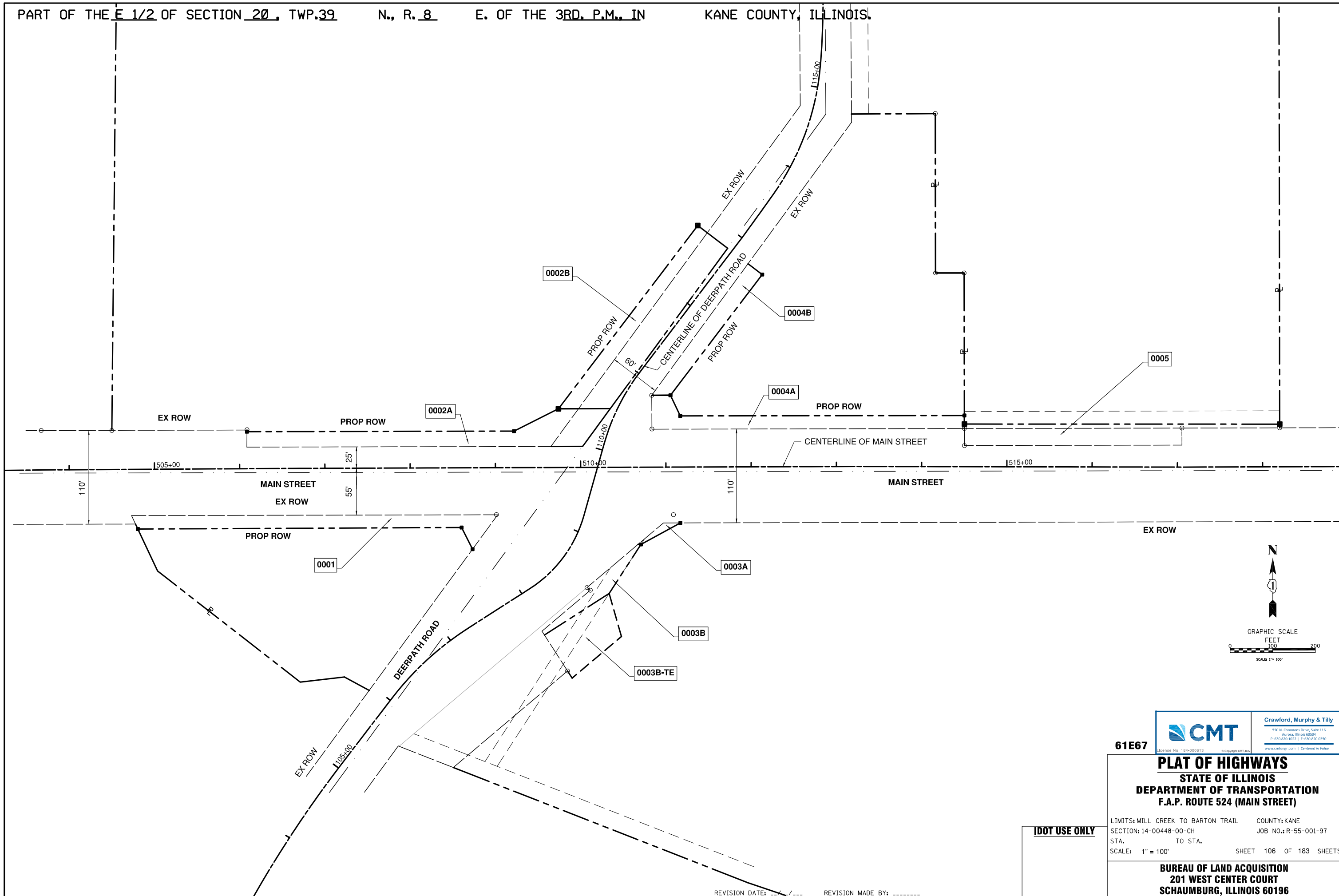
1. CALL THE CITY OF BATAVIA TO SHUT OFF 20" WATERMAIN.
2. REMOVE EXISTING AUXILIARY VALVE.
3. REMOVE EXISTING HYDRANT.
4. INSTALL NEW VALVE.
5. RELOCATE EXISTING HYDRANT.
6. BACKFILL/ADD THRUST BLOCKS.
7. CALL THE CITY OF BATAVIA TO TURN ON 20" WATERMAIN.
8. FLUSH FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

ALL WORK TO BE DONE IN ACCORDANCE WITH ARTICLE 564 OF THE STANDARD SPECIFICATIONS. NEW VALVE AND BOX SHALL BE SAME MAKE AND MODEL AS EXISTING.

FIRE HYDRANT TO BE MOVED

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

	FILE NAME = D:\14003-shl-u\Illies-det02.dgn	DESIGNED - BRF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIRE HYDRANT TO BE MOVED			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	MODEL NAME = Default	DRAWN - BRF	REVISED -		SCALE:	SHEET 2 OF 2 SHEETS	STA.	TO STA.	524	14-00448-00-CH	KANE	183
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PLOT DATE = 9/6/2018 - 12:58:42 PM	DATE - 9/7/2018	REVISED -						ILLINOIS FED. AID PROJECT				



61E67

CMT
550 N. Commons Drive, Suite 116
 Aurora, Illinois 60204
 P: 630.820.3022 | F: 630.820.0350
 www.cmtinc.com | Centered in Value

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PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 524 (MAIN STREET)

LIMITS: MILL CREEK TO BARTON TRAIL COUNTY: KANE
 SECTION: 14-00448-00-CH JOB NO.: R-55-001-97
 STA. TO STA.
 SCALE: 1" = 100' SHEET 106 OF 183 SHEETS

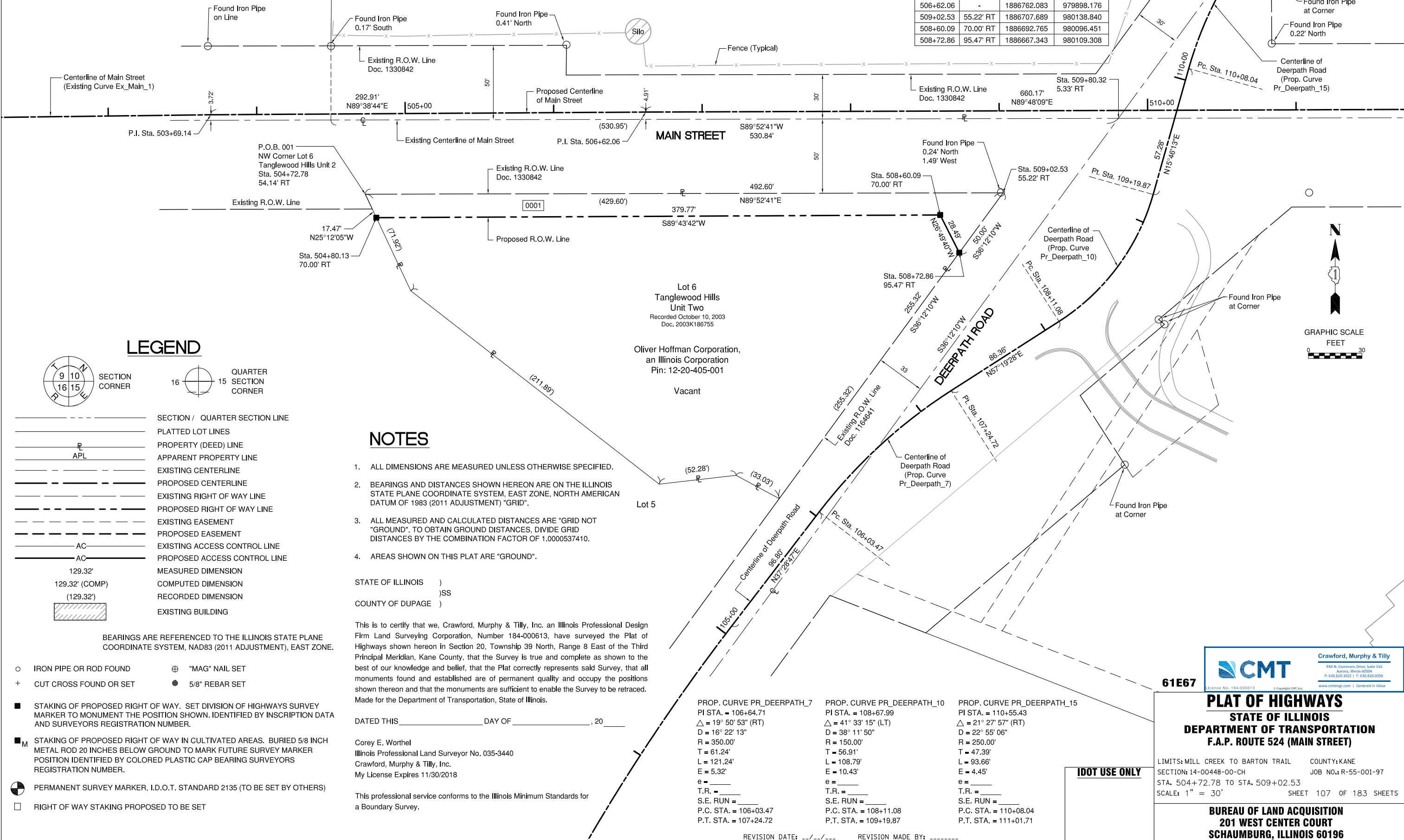
BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

IDOT USE ONLY

REVISION DATE: _____ REVISION MADE BY: _____

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
0001	1.241	0.190	N/A	1.051	N/A	N/A	12-20-405-001

PROJECT COORDINATES ILLINOIS STATE PLANE, EAST ZONE, NAD 83 (2001)			
COORDINATE TABLE			
STATION	OFFSET	NORTHING	EASTING
503+69.14	-	1886760.272	979605.269
504+72.78	54.14' RT	1886706.775	979709.241
504+80.13	70.00' RT	1886690.965	979716.681
506+62.06	-	1886762.083	979898.176
509+02.53	55.22' RT	1886707.689	980138.840
508+60.09	70.00' RT	1886692.765	980096.451
508+72.86	95.47' RT	1886667.343	980109.308



LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL LINE
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORDED DIMENSION
- EXISTING BUILDING

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.

- IRON PIPE OR ROD FOUND
- CUT CROSS FOUND OR SET
- "MAG" NAIL 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.
- 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. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

NOTES

- ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.
- BEARINGS AND DISTANCES SHOWN HEREON ARE ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID".
- ALL MEASURED AND CALCULATED DISTANCES ARE "GRID NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES BY THE COMBINATION FACTOR OF 1.0000537410.
- AREAS SHOWN ON THIS PLAT ARE "GROUND".

STATE OF ILLINOIS)
)SS
 COUNTY OF DUPAGE)

This is to certify that we, Crawford, Murphy & Tilly, Inc. an Illinois Professional Design Firm Land Surveying Corporation, Number 184-000613, have surveyed the Plat of Highways shown hereon in Section 20, Township 39 North, Range 8 East of the Third Principal Meridian, Kane County, that the Survey is true and complete as shown to the best of our 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.

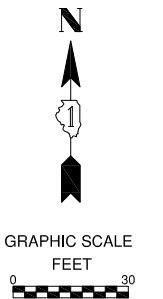
DATED THIS _____ DAY OF _____, 20__

Corey E. Worthel
 Illinois Professional Land Surveyor No. 035-3440
 Crawford, Murphy & Tilly, Inc.
 My License Expires 11/30/2018

This professional service conforms to the Illinois Minimum Standards for a Boundary Survey.

PROP. CURVE PR_DEERPATH_7 PI STA. = 106+64.71 $\Delta = 19^\circ 50' 53''$ (RT) D = 16° 22' 13" R = 350.00' T = 61.24' L = 121.24' E = 5.32' e = _____ T.R. = _____ S.E. RUN = _____ P.C. STA. = 106+03.47 P.T. STA. = 107+24.72	PROP. CURVE PR_DEERPATH_10 PI STA. = 108+67.99 $\Delta = 41^\circ 33' 15''$ (LT) D = 38° 11' 50" R = 150.00' T = 56.91' L = 108.79' E = 10.43' e = _____ T.R. = _____ S.E. RUN = _____ P.C. STA. = 108+11.08 P.T. STA. = 109+19.87	PROP. CURVE PR_DEERPATH_15 PI STA. = 110+55.43 $\Delta = 21^\circ 27' 57''$ (RT) D = 22° 55' 06" R = 250.00' T = 47.39' L = 93.66' E = 4.45' e = _____ T.R. = _____ S.E. RUN = _____ P.C. STA. = 110+08.04 P.T. STA. = 111+01.71
--	--	--

REVISION DATE: ___/___/___ REVISION MADE BY: _____



CMT Crawford, Murphy & Tilly
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 Aurora, Illinois 60204
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61E67

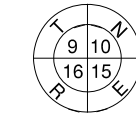
PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.P. ROUTE 524 (MAIN STREET)

LIMITS: MILL CREEK TO BARTON TRAIL COUNTY: KANE
 SECTION: 14-00448-00-CH JOB NO.: R-55-001-97
 STA. 504+72.78 TO STA. 509+02.53
 SCALE: 1" = 30' SHEET 107 OF 183 SHEETS

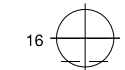
BUREAU OF LAND ACQUISITION
 201 WEST CENTER COURT
 SCHAUMBURG, ILLINOIS 60196

IDOT USE ONLY

LEGEND

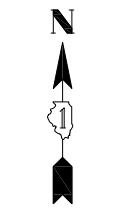


SECTION CORNER



QUARTER SECTION CORNER

- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL LINE
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORDED DIMENSION
- EXISTING BUILDING



GRAPHIC SCALE
FEET
0 50

STATE OF ILLINOIS)
)SS
COUNTY OF DUPAGE)

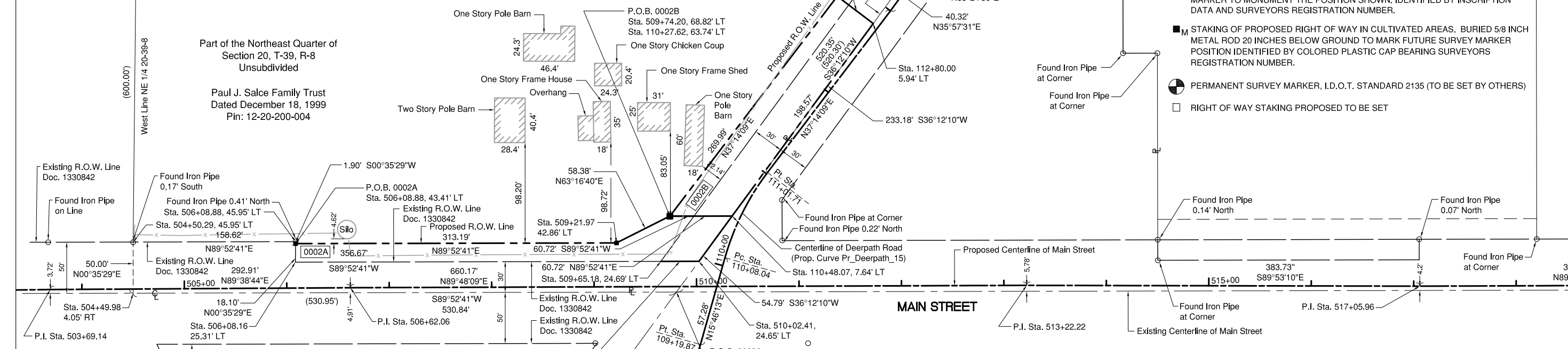
This is to certify that we, Crawford, Murphy & Tilly, Inc. an Illinois Professional Design Firm Land Surveying Corporation, Number 184-000613, have surveyed the Plat of Highways shown hereon in Section 20, Township 39 North, Range 8 East of the Third Principal Meridian, Kane County, that the Survey is true and complete as shown to the best of our 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 THIS _____ DAY OF _____, 20____

Corey E. Worthel
Illinois Professional Land Surveyor No. 035-3440
Crawford, Murphy & Tilly, Inc.
My License Expires 11/30/2018

This professional service conforms to the Illinois Minimum Standards for a Boundary Survey.

PROJECT COORDINATES ILLINOIS STATE PLANE, EAST ZONE, NAD 83 (2001)			
COORDINATE TABLE			
STATION	OFFSET	NORTHING	EASTING
108+11.08	-	1886621.054	980176.494
109+19.87	-	1886706.548	980239.866
110+08.04	-	1886791.404	980263.830
110+48.07	7.64' LT	1886832.113	980270.810
111+01.71	-	1886874.734	980305.382
112+80.00	50.00' LT	1887046.937	980373.459
112+80.00	5.94' LT	1887020.275	980408.538
113+62.66	-	1887083.393	980461.959
506+08.16	25.31' LT	1886787.063	979844.546
506+08.88	43.41' LT	1886805.168	979844.733
506+08.88	45.95' LT	1886807.064	979844.753
509+21.97	42.86' LT	1886805.834	980157.945
509+65.18	24.69' LT	1886787.822	980201.212
509+74.20	68.82' LT	1886831.980	980210.086
510+02.41	24.65' LT	1886787.902	980238.448



- BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.
- 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. STANDARD 2135 (TO BE SET BY OTHERS)
 - RIGHT OF WAY STAKING PROPOSED TO BE SET

NOTES

- ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.
- BEARINGS AND DISTANCES SHOWN HEREON ARE ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID".
- ALL MEASURED AND CALCULATED DISTANCES ARE "GRID NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES BY THE COMBINATION FACTOR OF 1.0000537410.
- AREAS SHOWN ON THIS PLAT ARE "GROUND".

PROP. CURVE PR_DEERPATH_7	PROP. CURVE PR_DEERPATH_10	PROP. CURVE PR_DEERPATH_15	PROP. CURVE PR_DEERPATH_22
PI STA. = 106+64.71	PI STA. = 108+67.99	PI STA. = 110+55.43	PI STA. = 114+44.25
Δ = 19° 50' 53" (RT)	Δ = 41° 33' 15" (LT)	Δ = 21° 27' 57" (RT)	Δ = 29° 58' 31" (LT)
D = 16° 22' 13"	D = 38° 11' 50"	D = 22° 55' 06"	D = 18° 47' 08"
R = 350.00'	R = 150.00'	R = 250.00'	R = 305.00'
T = 61.24'	T = 56.91'	T = 47.39'	T = 81.65'
L = 121.24'	L = 108.79'	L = 93.66'	L = 159.57'
E = 5.32'	E = 10.43'	E = 4.45'	E = 10.74'
e = _____	e = _____	e = _____	e = _____
T.R. = _____	T.R. = _____	T.R. = _____	T.R. = _____
S.E. RUN = _____	S.E. RUN = _____	S.E. RUN = _____	S.E. RUN = _____
P.C. STA. = 106+03.47	P.C. STA. = 108+11.08	P.C. STA. = 110+08.04	P.C. STA. = 113+62.60
P.T. STA. = 107+24.72	P.T. STA. = 109+19.87	P.T. STA. = 111+01.71	P.T. STA. = 115+22.16

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	SQUARE FEET	PARCEL INDEX NUMBER
0002A 0002B	9.322	0.175 0.099	N/A	9.048	N/A	N/A	12-20-200-004

REVISION DATE: --/--/--- REVISION MADE BY: -----

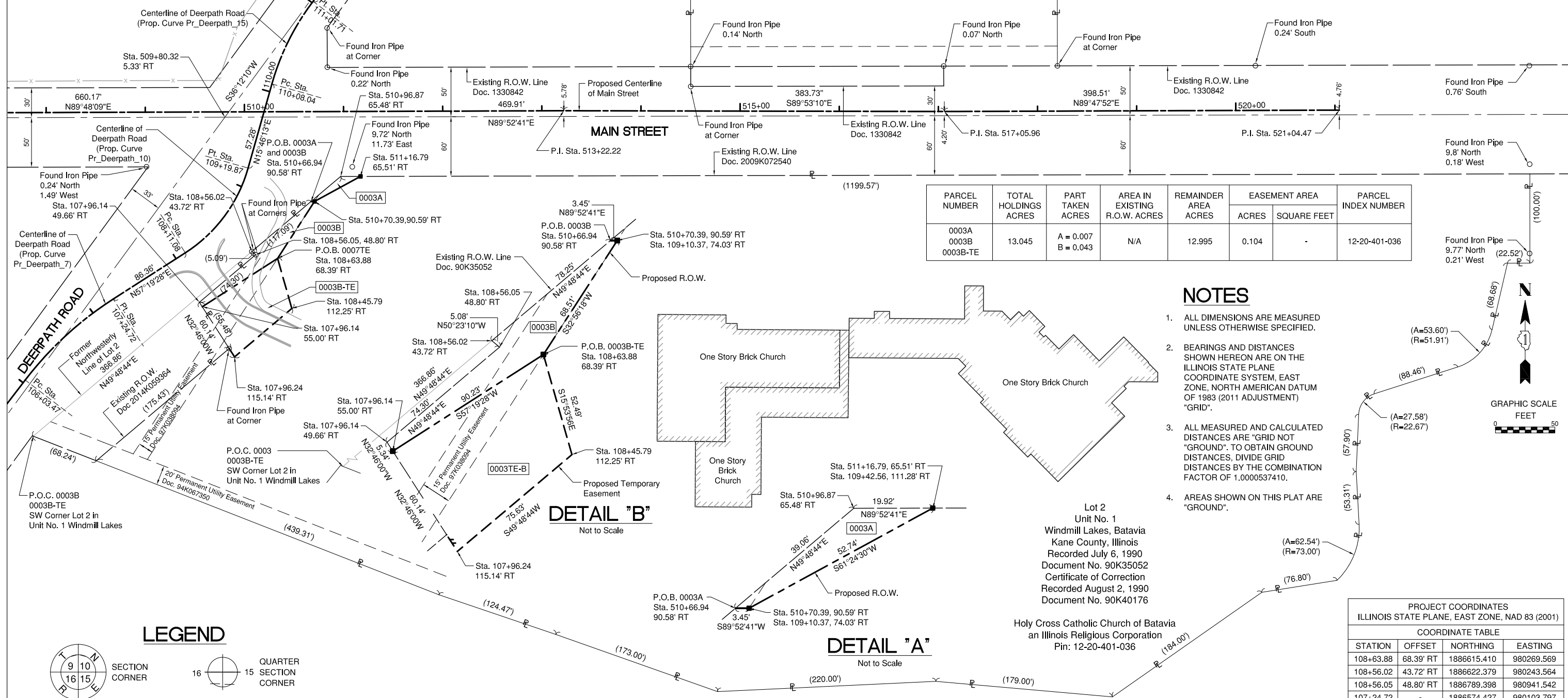
CMT
Crawford, Murphy & Tilly
550 N. Commons Drive, Suite 116
Aurora, Illinois 60204
P: 630.820.3022 | F: 630.820.0350
www.cmtng.com | Certified in Value

61E67

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 524 (MAIN STREET)

LIMITS: MILL CREEK TO BARTON TRAIL COUNTY: KANE
SECTION: 14-00448-00-CH JOB NO.: R-55-001-97
STA. 509+74.20 TO STA. 112+80.00
SCALE: 1" = 50' SHEET 108 OF 183 SHEETS

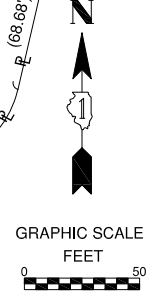
BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196



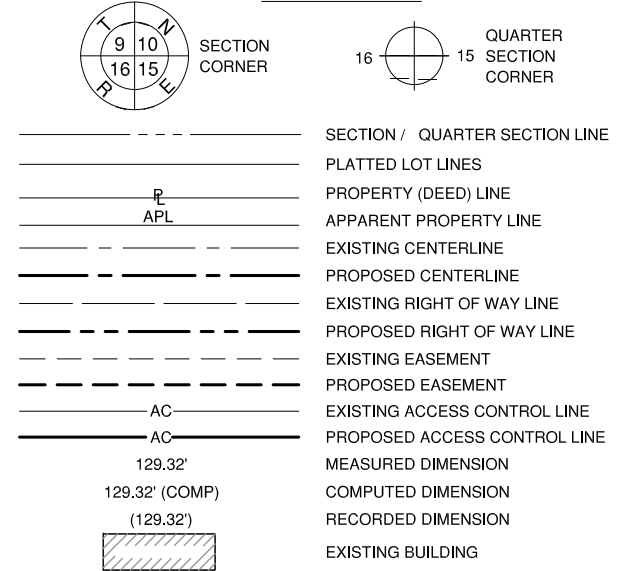
PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
0003A 0003B 0003B-TE	13.045	A = 0.007 B = 0.043	N/A	12.995	0.104	-	12-20-401-036

NOTES

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- AREAS SHOWN ON THIS PLAT ARE "GROUND".



LEGEND



PROP. CURVE PR_DEERPATH_7
 PI STA. = 106+64.71
 $\Delta = 19^\circ 50' 53"$ (RT)
 D = 16' 22' 13"
 R = 350.00'
 T = 61.24'
 L = 121.24'
 E = 5.32'

PROP. CURVE PR_DEERPATH_10
 PI STA. = 108+67.99
 $\Delta = 41^\circ 33' 15"$ (LT)
 D = 38' 11' 50"
 R = 150.00'
 T = 56.91'
 L = 108.79'
 E = 10.43'

PROP. CURVE PR_DEERPATH_15
 PI STA. = 110+55.43
 $\Delta = 21^\circ 27' 57"$ (RT)
 D = 22' 55' 06"
 R = 250.00'
 T = 47.39'
 L = 93.66'
 E = 4.45'

STATE OF ILLINOIS)
)SS
 COUNTY OF DUPAGE)

This is to certify that we, Crawford, Murphy & Tilly, Inc. an Illinois Professional Design Firm Land Surveying Corporation, Number 184-000613, have surveyed the Plat of Highways shown hereon in Section 20, Township 39 North, Range 8 East of the Third Principal Meridian, Kane County, that the Survey is true and complete as shown to the best of our 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 THIS _____ DAY OF _____, 20____

Corey E. Worthel
 Illinois Professional Land Surveyor No. 035-3440
 Crawford, Murphy & Tilly, Inc.
 My License Expires 11/30/2018

This professional service conforms to the Illinois Minimum Standards for a Boundary Survey.

REVISION DATE: ___/___/___ REVISION MADE BY: _____

Lot 2
 Unit No. 1
 Windmill Lakes, Batavia
 Kane County, Illinois
 Recorded July 6, 1990
 Document No. 90K35052
 Certificate of Correction
 Recorded August 2, 1990
 Document No. 90K40176

Holy Cross Catholic Church of Batavia
 an Illinois Religious Corporation
 Pin: 12-20-401-036

PROJECT COORDINATES
 ILLINOIS STATE PLANE, EAST ZONE, NAD 83 (2001)

COORDINATE TABLE			
STATION	OFFSET	NORTHING	EASTING
108+63.88	68.39' RT	1886615.410	980269.569
108+56.02	43.72' RT	1886622.379	980243.564
108+56.05	48.80' RT	1886789.398	980941.542
107+24.72	-	1886574.427	980103.797
107+96.14	49.66' RT	1886571.181	980190.728
107+96.14	55.00' RT	1886566.695	980193.616
510+66.94	90.58' RT	1886672.897	980303.370
510+70.39	90.59' RT	1886672.904	980306.818
510+96.87	65.48' RT	1886698.103	980333.210
511+16.79	65.51' RT	1886698.145	980353.130
513+22.22	-	1886764.358	980558.342

61E67



PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.P. ROUTE 524 (MAIN STREET)

LIMITS: MILL CREEK TO BARTON TRAIL COUNTY: KANE
 SECTION: 14-00448-00-CH JOB NO.: R-55-001-97
 STA. 107+96.14 TO STA. 510+70.39
 SCALE: 1" = 50' SHEET 109 OF 183 SHEETS

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

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
0004A 0004B	2.050	0.145 0.082	N/A	1.823	N/A	N/A	12-20-251-001

STATE OF ILLINOIS)
)SS
COUNTY OF DUPAGE)

This is to certify that we, Crawford, Murphy & Tilly, Inc. an Illinois Professional Design Firm Land Surveying Corporation, Number 184-000613, have surveyed the Plat of Highways shown hereon in Section 20, Township 39 North, Range 8 East of the Third Principal Meridian, Kane County, that the Survey is true and complete as shown to the best of our 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 THIS _____ DAY OF _____, 20____

Corey E. Worthel
Illinois Professional Land Surveyor No. 035-3440
Crawford, Murphy & Tilly, Inc.
My License Expires 11/30/2018

This professional service conforms to the Illinois Minimum Standards for a Boundary Survey.

NOTES

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- AREAS SHOWN ON THIS PLAT ARE "GROUND".

LEGEND

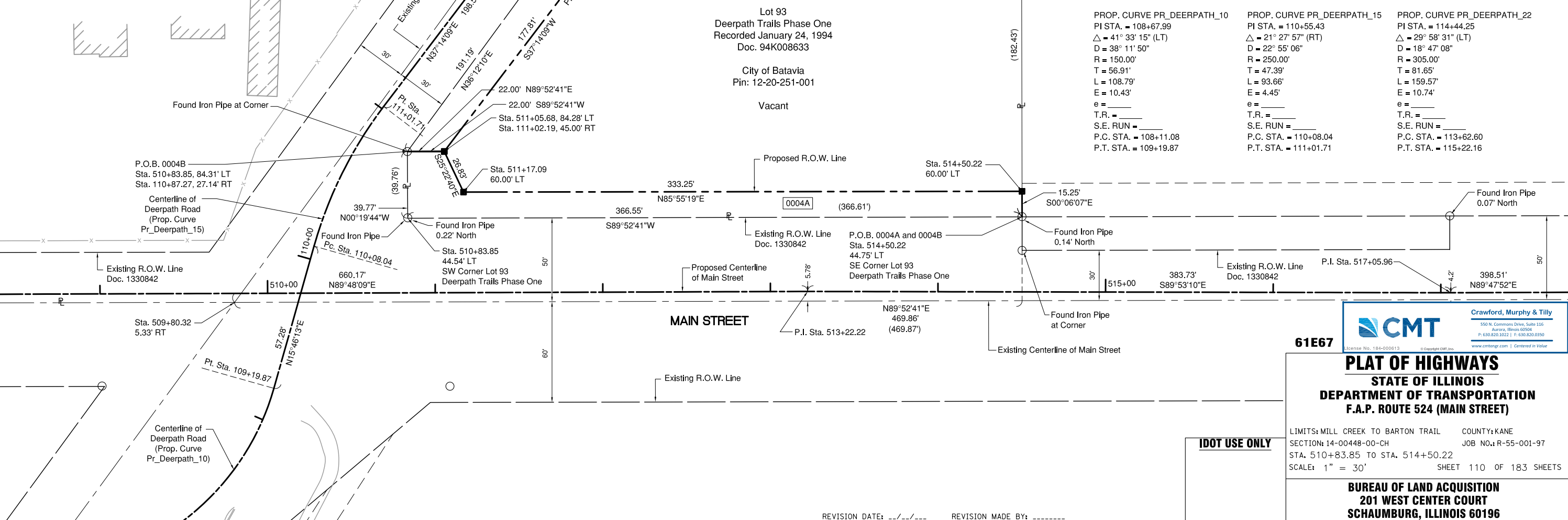
- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPL APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL LINE
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORDED DIMENSION
- EXISTING BUILDING

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.

- 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. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

PROJECT COORDINATES
ILLINOIS STATE PLANE, EAST ZONE, NAD 83 (2001)

STATION	OFFSET	NORTHING	EASTING
108+11.08	-	1886621.054	980176.494
110+08.04	-	1886791.404	980263.830
111+01.71	-	1886874.734	980305.382
112+80.00	24.07' RT	1887002.120	980432.427
112+80.00	45.00' RT	1886989.453	980449.094
113+62.60	-	1887083.393	980461.959
510+83.85	84.31' LT	1886847.844	980319.502
510+83.85	44.54' LT	1886808.075	980319.730
511+05.68	84.28' LT	1886847.891	980341.503
511+17.09	60.00' LT	1886823.651	980353.001
513+22.22	-	1886764.358	980558.342
514+50.22	60.00' LT	1886824.104	980686.250
514+50.22	44.75' LT	1886808.855	980686.277
517+05.96	-	1886763.596	980942.076



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61E67

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 524 (MAIN STREET)

LIMITS: MILL CREEK TO BARTON TRAIL COUNTY: KANE
SECTION: 14-00448-00-CH JOB NO.: R-55-001-97
STA. 510+83.85 TO STA. 514+50.22
SCALE: 1" = 30' SHEET 110 OF 183 SHEETS

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

NOTES

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PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
0005	6.993	0.158	N/A	6.835	N/A	N/A	12-20-200-005 12-20-200-016 12-20-200-015

LEGEND

SECTION CORNER
QUARTER SECTION CORNER

SECTION / QUARTER SECTION LINE
PLATTED LOT LINES
PROPERTY (DEED) LINE
APPARENT PROPERTY LINE
EXISTING CENTERLINE
PROPOSED CENTERLINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
EXISTING EASEMENT
PROPOSED EASEMENT
EXISTING ACCESS CONTROL LINE
PROPOSED ACCESS CONTROL LINE
MEASURED DIMENSION
COMPUTED DIMENSION
RECORDED DIMENSION
EXISTING BUILDING

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.

- 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. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

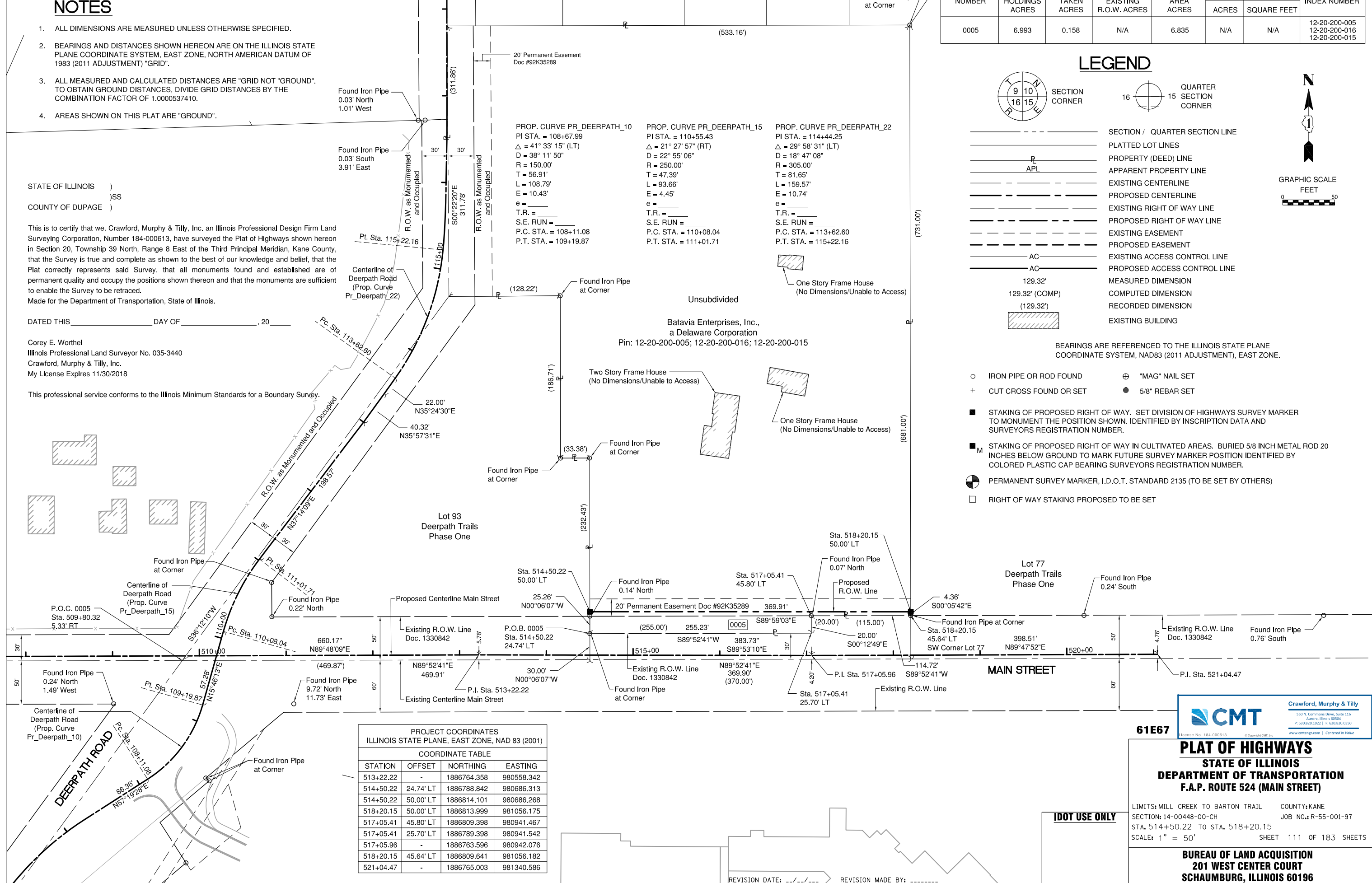
STATE OF ILLINOIS)
)SS
COUNTY OF DUPAGE)

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Made for the Department of Transportation, State of Illinois.

DATED THIS _____ DAY OF _____, 20____

Corey E. Worthel
Illinois Professional Land Surveyor No. 035-3440
Crawford, Murphy & Tilly, Inc.
My License Expires 11/30/2018

This professional service conforms to the Illinois Minimum Standards for a Boundary Survey.



PROJECT COORDINATES
ILLINOIS STATE PLANE, EAST ZONE, NAD 83 (2001)

COORDINATE TABLE

STATION	OFFSET	NORTHING	EASTING
513+22.22	-	1886764.358	980558.342
514+50.22	24.74' LT	1886788.842	980686.313
514+50.22	50.00' LT	1886814.101	980686.268
518+20.15	50.00' LT	1886813.999	981056.175
517+05.41	45.80' LT	1886809.398	980941.467
517+05.41	25.70' LT	1886789.398	980941.542
517+05.96	-	1886763.596	980942.076
518+20.15	45.64' LT	1886809.641	981056.182
521+04.47	-	1886765.003	981340.586

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61E67

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 524 (MAIN STREET)

LIMITS: MILL CREEK TO BARTON TRAIL COUNTY: KANE
SECTION: 14-00448-00-CH JOB NO.: R-55-001-97
STA. 514+50.22 TO STA. 518+20.15
SCALE: 1" = 50' SHEET 111 OF 183 SHEETS

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

REVISION DATE: ---/---/--- REVISION MADE BY: -----



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 PLOT DATE = 9/6/2018 - 12:59:43 PM

DESIGNED - BRF
 DRAWN - ERD
 CHECKED - JWD
 DATE - 9/7/2018

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

INTERSECTION DETAIL
 DEERPETH RD & MAIN ST

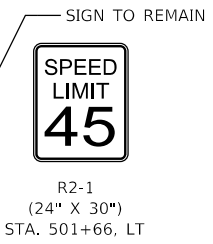
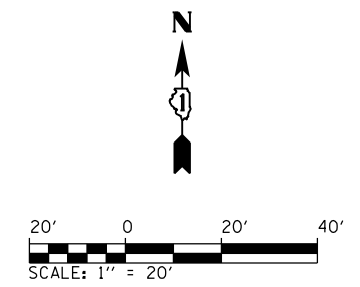
SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 507+00 TO STA. 513+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	112
CONTRACT NO.			61E67	
ILLINOIS		FED. AID PROJECT		

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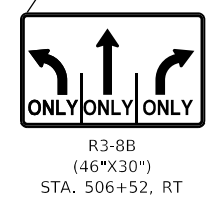
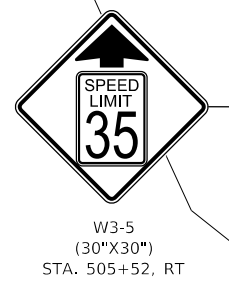
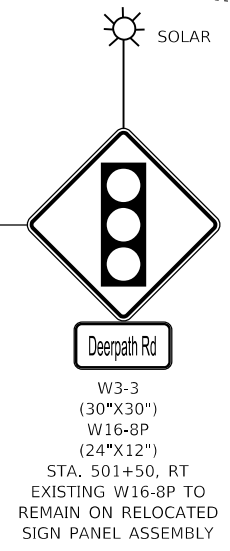
USER NAME = Brad Felisch
DIRECTORY = L:\Bw\17267-02_Deerpath\Draw\CADD_Sheets\...



G. MAIN STREET
(SEE ROADWAY PLANS)

RELOCATE
ADOPT A
HIGHWAY

MATCH LINE STA. 507+00.00



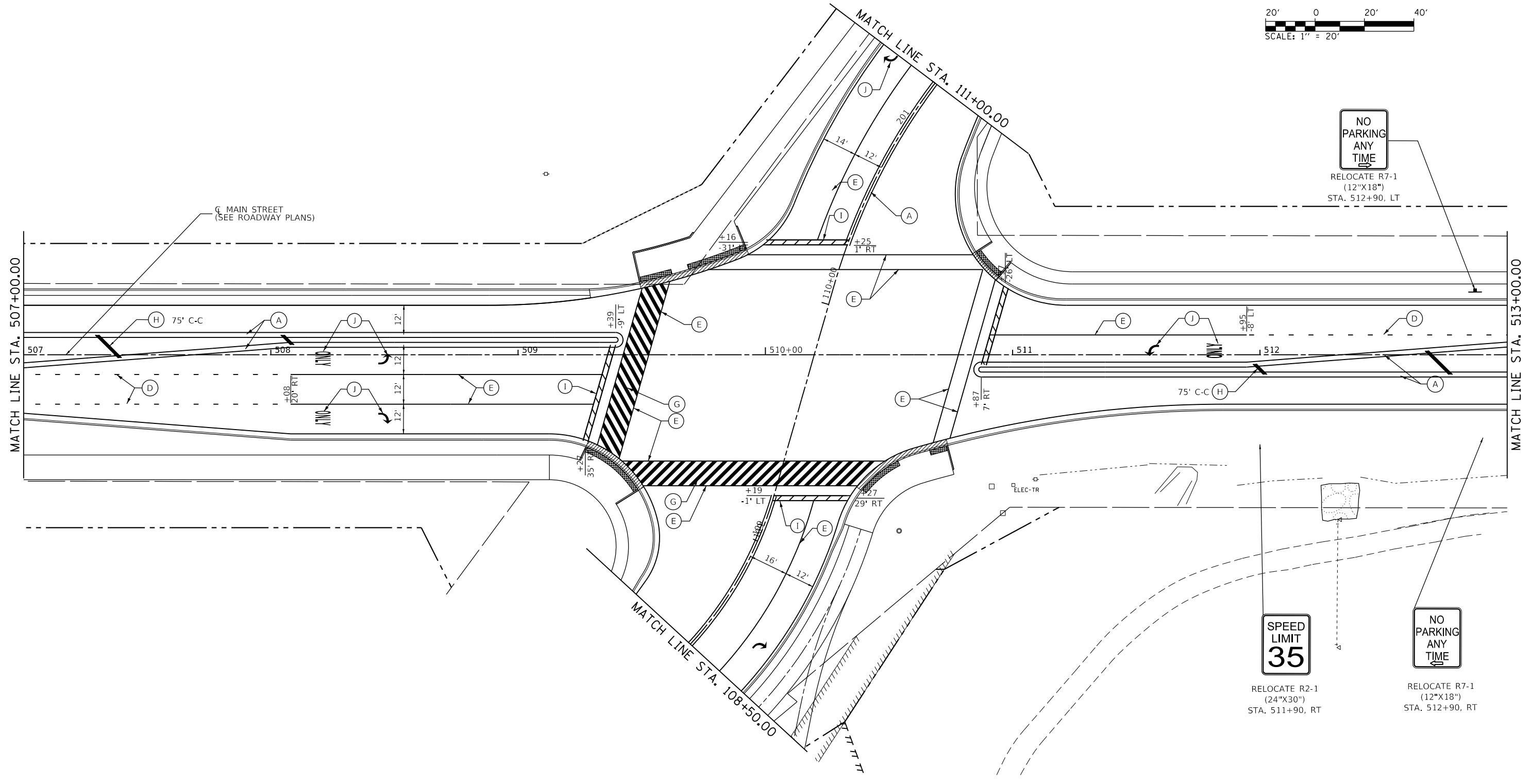
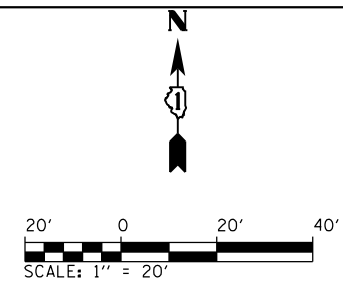
LEGEND

- | | | | | | | | |
|--|------------------------------|--|--------------------------|--|---|--|---|
| | EXISTING GROUND MOUNTED SIGN | | ONE-WAY CRYSTAL MARKER | | MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW) (2-4" @ 11" C-C) (78009004) | | MODIFIED URETHANE PAVEMENT MARKING - LINE 8" (WHITE) (78009008) |
| | PROP. GROUND MOUNTED SIGN | | PRISMATIC CURB REFLECTOR | | MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE) (78009004) | | MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (WHITE) (78009012) |
| | EXISTING SIGN STRUCTURE | | | | MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE) (30' SKIP - 10' DASH) (78009004) | | MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (YELLOW) (78009012) |
| | PROP. SIGN STRUCTURE | | | | MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE) (6' SKIP - 2' DASH) (78009006) | | MODIFIED URETHANE PAVEMENT MARKING - LINE 24" (WHITE) (78009024) |
| | | | | | MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE) (78009006) | | MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS (78009000) |

NOTES:

1. SEE DISTRICT 1 TYP. PAVEMENT MARKINGS DETAIL TC-13.
2. SEE SIGNAL PLANS FOR OVERHEAD SIGNS ON TRAFFIC SIGNALS.
3. THE CONTRACTOR SHALL MATCH THE EXISTING PAVEMENT MARKINGS AT PROJECT LIMITS AS NECESSARY.
4. STOP BARS ARE STATIONED TO THE CENTER OF THE 24" LINE.

	FILE NAME = D:\1M4003-sht-sigr-pmk01.dgn	DESIGNED - BRF	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p>PAVEMENT MARKING AND SIGNING PLAN MAIN ST</p>			F.A.P. RTE. = 524	SECTION = 14-00448-00-CH	COUNTY = KANE	TOTAL SHEETS = 183	SHEET NO. = 113
	MODEL NAME = Default	DRAWN - ERD	REVISED -		SCALE: 1"=20'	SHEET 1	OF 6 SHEETS	STA. 50100	TO STA. 50700	CONTRACT NO. 61E67		ILLINOIS FED. AID PROJECT
	PLOT SCALE = 40,0000' / in.	CHECKED - JWD	REVISED -									
	PLOT DATE = 9/6/2018 - 12:58:45 PM	DATE = 9/7/2018	REVISED -									



RELOCATE R7-1
 (12\"/>



RELOCATE R2-1
 (24\"/>



RELOCATE R7-1
 (12\"/>

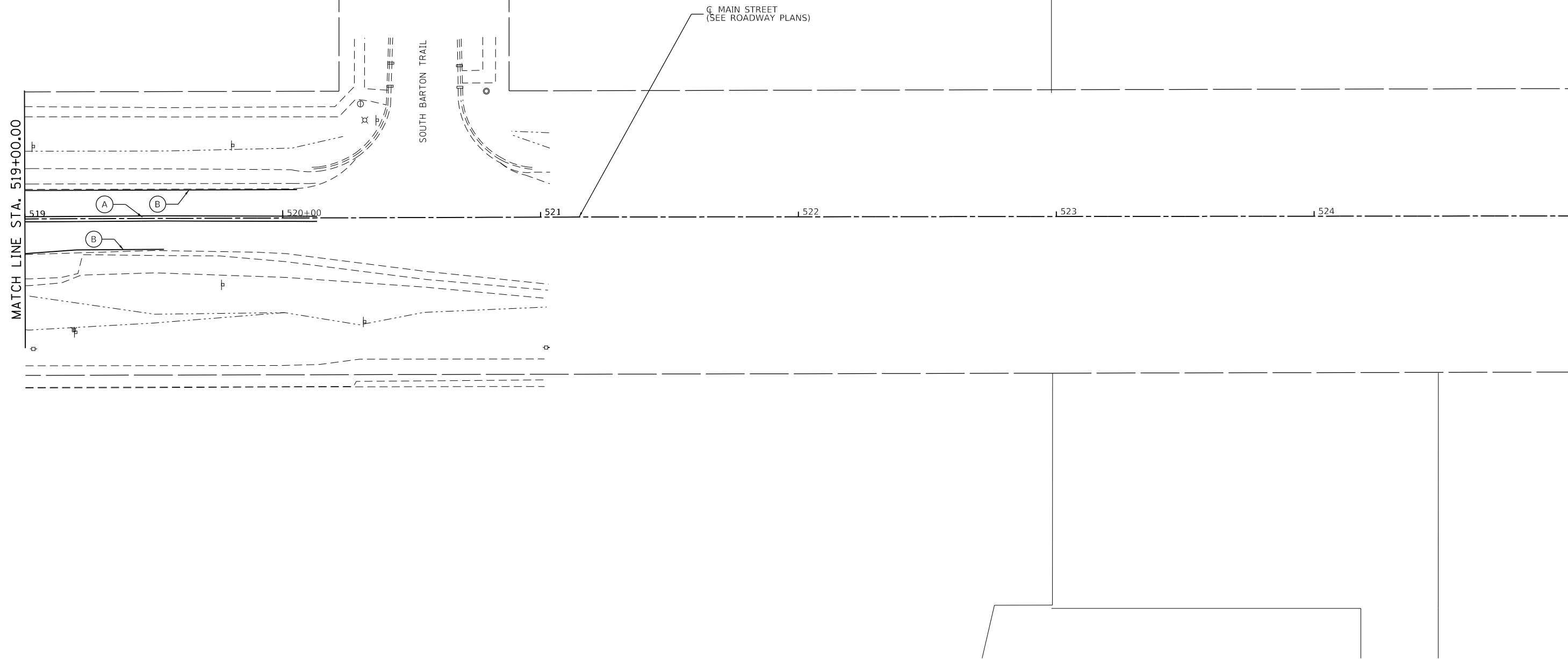
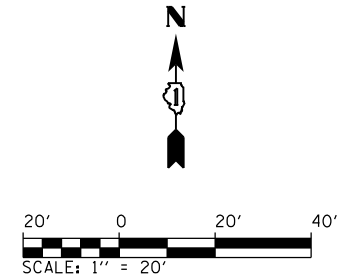
LEGEND

- | | | | | | | | |
|--|------------------------------|--|--------------------------|--|---|--|---|
| | EXISTING GROUND MOUNTED SIGN | | ONE-WAY CRYSTAL MARKER | | MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW) (2-4" @ 11" C-C) (78009004) | | MODIFIED URETHANE PAVEMENT MARKING - LINE 8" (WHITE) (78009008) |
| | PROP. GROUND MOUNTED SIGN | | PRISMATIC CURB REFLECTOR | | MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE) (78009004) | | MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (WHITE) (78009012) |
| | EXISTING SIGN STRUCTURE | | | | MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE) (30' SKIP - 10' DASH) (78009004) | | MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (YELLOW) (78009012) |
| | PROP. SIGN STRUCTURE | | | | MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE) (6' SKIP - 2' DASH) (78009006) | | MODIFIED URETHANE PAVEMENT MARKING - LINE 24" (WHITE) (78009024) |
| | | | | | MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE) (78009006) | | MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS (78009000) |

NOTES:

- SEE DISTRICT 1 TYP. PAVEMENT MARKINGS DETAIL TC-13.
- SEE SIGNAL PLANS FOR OVERHEAD SIGNS ON TRAFFIC SIGNALS.
- THE CONTRACTOR SHALL MATCH THE EXISTING PAVEMENT MARKINGS AT PROJECT LIMITS AS NECESSARY.
- STOP BARS ARE STATIONED TO THE CENTER OF THE 24" LINE.

	FILE NAME = D:\14003-sht-sign-pmk02.dgn	DESIGNED - BRF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND SIGNING PLAN			F.A.P. RTE. = 524	SECTION = 14-00448-00-CH	COUNTY = KANE	TOTAL SHEETS = 183	SHEET NO. = 114
	MODEL NAME = Default	DRAWN - ERD	REVISED -		SCALE: 1" = 20'	SHEET 2	OF 6 SHEETS	STA. 50700	TO STA. 51300	CONTRACT NO. 61E67		ILLINOIS FED. AID PROJECT
	PLOT SCALE = 40,0000' / in.	CHECKED - JWD	REVISED -									
	PLOT DATE = 9/6/2018 - 12:59:46 PM	DATE - 9/7/2018	REVISED -									



LEGEND

- | | | | | | |
|--|------------------------------|--|--------------------------|---|---|
| | EXISTING GROUND MOUNTED SIGN | | ONE-WAY CRYSTAL MARKER | (A) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW) (2-4" @ 11" C-C) (78009004) | (F) MODIFIED URETHANE PAVEMENT MARKING - LINE 8" (WHITE) (78009008) |
| | PROP. GROUND MOUNTED SIGN | | PRISMATIC CURB REFLECTOR | (B) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE) (78009004) | (G) MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (WHITE) (78009012) |
| | EXISTING SIGN STRUCTURE | | | (C) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE) (30' SKIP - 10' DASH) (78009004) | (H) MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (YELLOW) (78009012) |
| | PROP. SIGN STRUCTURE | | | (D) MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE) (6' SKIP - 2' DASH) (78009006) | (I) MODIFIED URETHANE PAVEMENT MARKING - LINE 24" (WHITE) (78009024) |
| | | | | (E) MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE) (78009006) | (J) MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS (78009000) |

NOTES:

1. SEE DISTRICT 1 TYP. PAVEMENT MARKINGS DETAIL TC-13.
2. SEE SIGNAL PLANS FOR OVERHEAD SIGNS ON TRAFFIC SIGNALS.
3. THE CONTRACTOR SHALL MATCH THE EXISTING PAVEMENT MARKINGS AT PROJECT LIMITS AS NECESSARY.
4. STOP BARS ARE STATIONED TO THE CENTER OF THE 24" LINE.

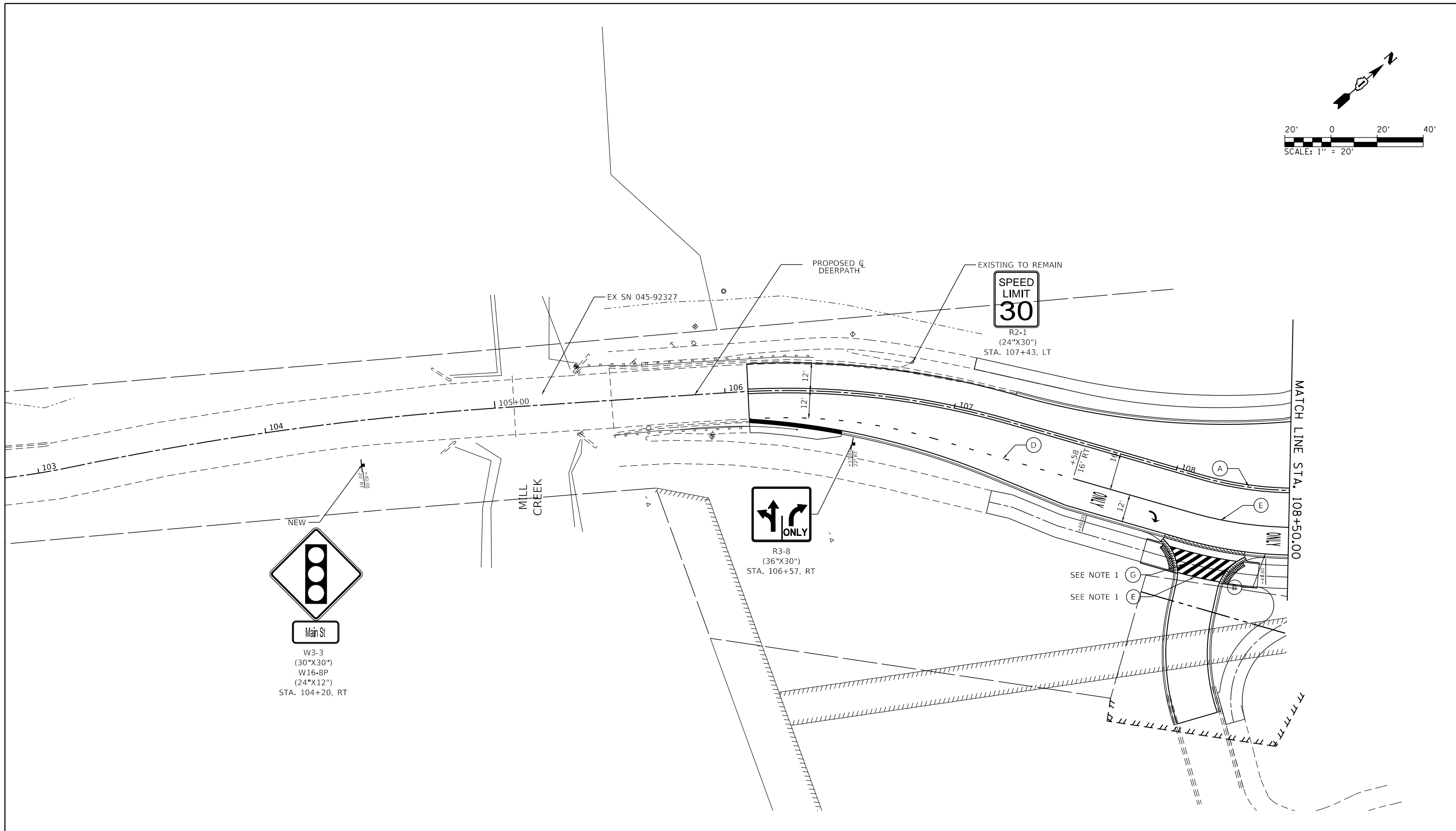
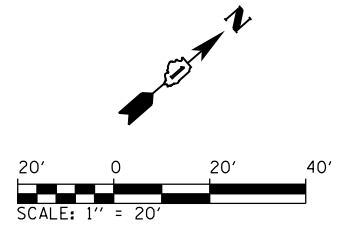


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

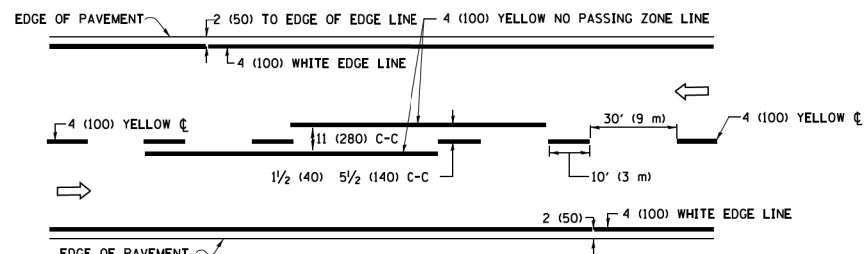
PAVEMENT MARKING AND SIGNING PLAN			
MAIN ST			
SCALE: 1" = 20'	SHEET 4	OF 6 SHEETS	STA. 51900 TO STA. 52500

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	116
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61E67	

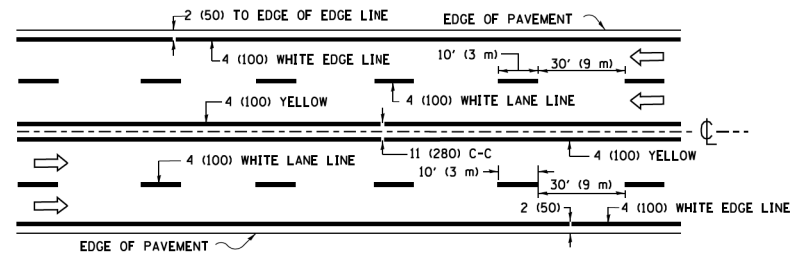


LEGEND				NOTES:			
	EXISTING GROUND MOUNTED SIGN		ONE-WAY CRYSTAL MARKER		MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW) (2-4" @ 11" C-C) (78009004)		MODIFIED URETHANE PAVEMENT MARKING - LINE 8" (WHITE) (78009008)
	PROP. GROUND MOUNTED SIGN		PRISMATIC CURB REFLECTOR		MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE) (78009004)		MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (WHITE) (78009012)
	EXISTING SIGN STRUCTURE				MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE) (30' SKIP - 10' DASH) (78009004)		MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (YELLOW) (78009012)
	PROP. SIGN STRUCTURE				MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE) (6' SKIP - 2' DASH) (78009006)		MODIFIED URETHANE PAVEMENT MARKING - LINE 24" (WHITE) (78009024)
					MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE) (78009006)		MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS (78009000)

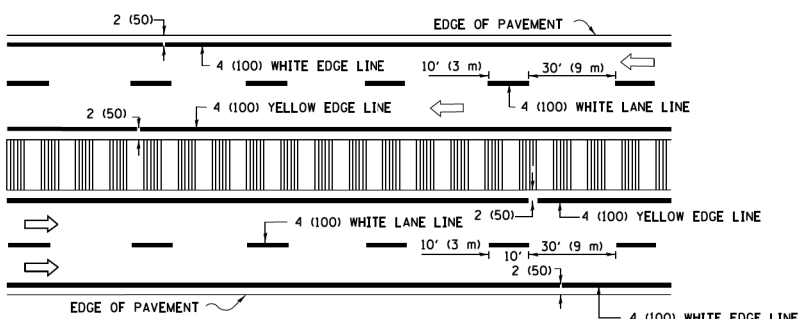
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		PAVEMENT MARKING AND SIGNING PLAN DEERPETH RD		SCALE: 1" = 20'	SHEET 5 OF 6 SHEETS	STA. 10250 TO STA. 10850
F.A.P. RTE. 524	SECTION 14-00448-00-CH	COUNTY KANE	TOTAL SHEETS 183	SHEET NO. 117		CONTRACT NO. 61E67
		ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

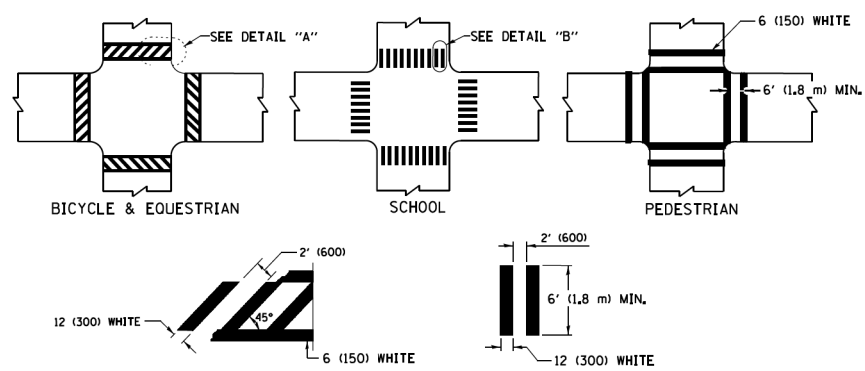


MULTI-LANE UNDIVIDED



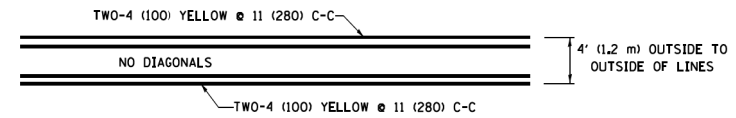
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

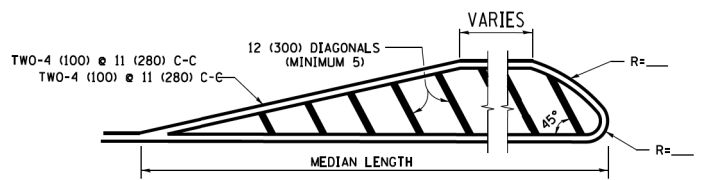


TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

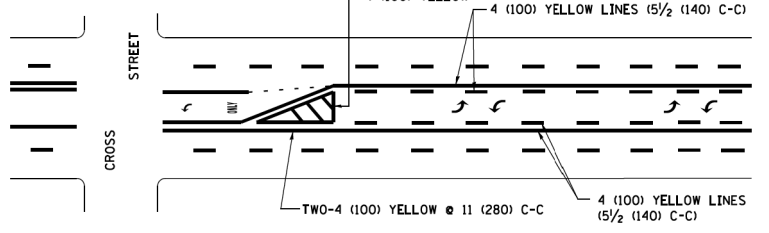


4' (1.2 m) WIDE MEDIANS ONLY



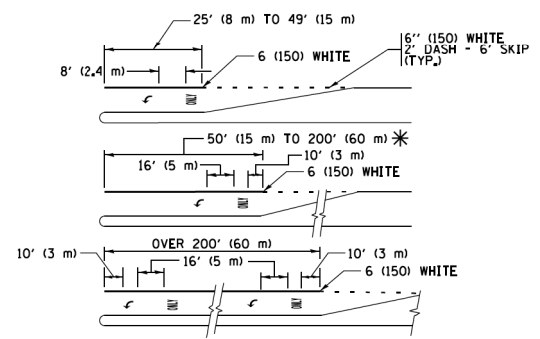
MEDIANS OVER 4' (1.2 m) WIDE

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))



**MEDIAN WITH TWO-WAY LEFT TURN LANE
TYPICAL PAINTED MEDIAN MARKING**

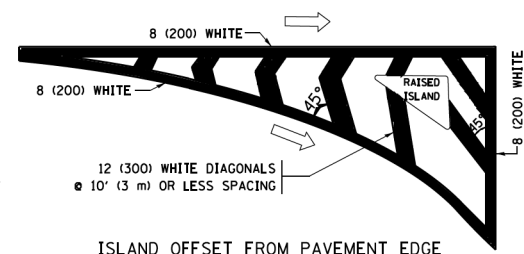
A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



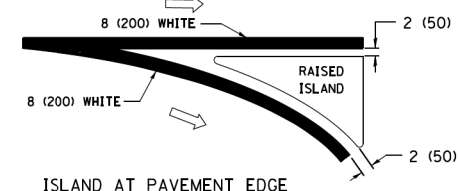
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

**TYPICAL LEFT (OR RIGHT) TURN LANE
TYPICAL TURN LANE MARKING**

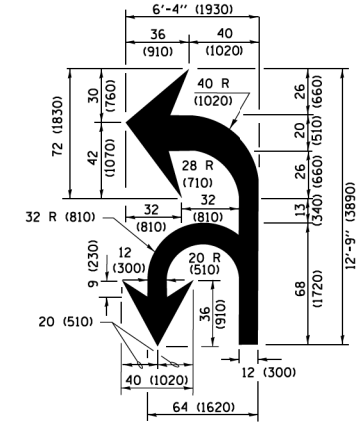
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



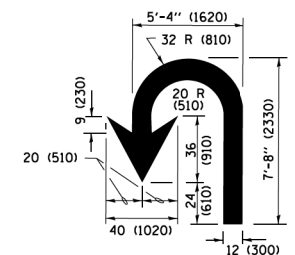
ISLAND OFFSET FROM PAVEMENT EDGE



**ISLAND AT PAVEMENT EDGE
TYPICAL ISLAND MARKING**



COMBINATION LEFT AND U-TURN



U-TURN

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

LANE REDUCTION TRANSITION
* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
CORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF "RR" IS 6' (1.8 m) LETTERS: 16 (400) LINE FOR "X"
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
W:\dstad\22x34\1\13.dgn	100403-she-sig-npmk-del01.dgn	EVERS	C. JUCIUS 09-09-09
Default	Plot Scale = 50,000' / in.	DRAWN -	REVISED -
	Plot Date = 6/23/2017	CHECKED -	REVISED -
		DATE -	REVISED -
		03-19-90	C. JUCIUS 04-12-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE			
TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET 1	OF 2 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	119
TC-13		CONTRACT NO.	61E67	
ILLINOIS/FED. AID PROJECT				

Telescoping Sign Post

12 Gauge Telescoping Galvanized Square Post,
2"W x 2"D x min. 10'

The post shall be a square tube formed of 12 gauge steel according to the standard specification for cold rolled carbon steel sheets commercial quality ASTM A 1008 (A 1008M). The post shall be formed to size and, if necessary, shall be welded in such a manner that weld or flash shall not interfere with telescoping. Holes 7/16 ± 1/64 in. (11 ± 0.4 mm) will be spaced on 1 in. (25 mm) centers on at least two opposite sides. The holes shall align to accept a 3/8 in. (10 mm) bolt through the post at any location. The post shall have a smooth galvanized finish applied either before or after forming. For all other regulations refer to Section 1093 of the latest version of Illinois Standard Specifications for Bridge and Road Construction.

Sign Bases
 30" bases for breakaway telescoping sign supports shall be model V-Loc, 200-VS3, for use in soft soil and shall be manufactured by TAPCO (Traffic & Parking Control Co., Inc.)

Sign Base Wedge
 Galvanized Steel Wedge SWI for V-Loc® post bases

Stainless steel bolts and washers used for fastening extruded aluminum sign panels to supports, shall be according to ASTM A 276, Type 304. Stainless steel nuts shall be according to ASTM A 240 (A 240M), Type 304.

V-LOC WEDGE FITS ALL V-LOC BASES #1190200

Base installed 2" Below Surface

Tapco 200-VS3B V-Loc Traffic Post Breakaway Soil Anchor, for use with 2" Length x 2" Width Telescoping Square Post

Wedge locks post in place

Leg angle 2.5"x2.5"x30"
 Fin Dimensions 10x12x12ga

DATE	REVISIONS	Specifications Telescoping Sign Post & Soil Bases

Sign Bases for Concrete & Asphalt Installation

Sign Bases for Concrete & Asphalt Installation, reusable breakaway anchors allow you to replace posts in a matter of a few minutes. The V-Loc® anchor socket can be installed into concrete, asphalt or dirt safely by one person, by either hand or power driver. Once the anchor is installed, simply insert the post, and drive in the patented wedge, which will lock the post into place without the need for any additional hardware. The V-Loc® requires no concrete in the soil. 200-VS1 Model, for 2" x 2" square posts going into Concrete, includes the wedge, post and anchor.

Concrete Base Assembly

Post Type: 2"x2" Square Perforated

Wedge

Concrete Base Model #200-VS1

Core Diameter/ Depth: 8" x 10"

Full Depth 1/2" Drain

DATE	REVISIONS	Specifications Concrete & Asphalt Bases



FILE NAME =	D:\1M4003-she-sign-pmk-del03.dgn	DESIGNED -	BRF	REVISED -	
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

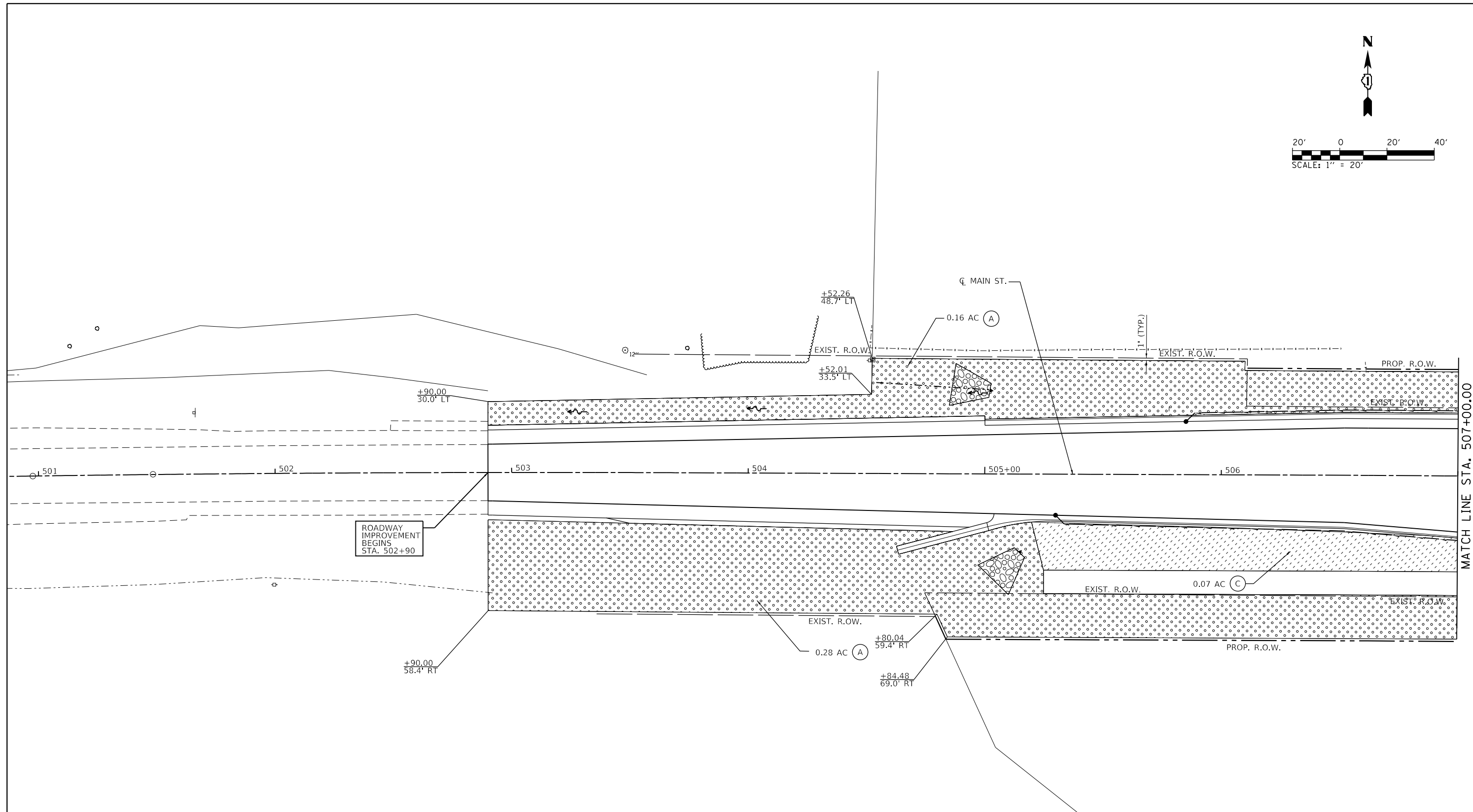
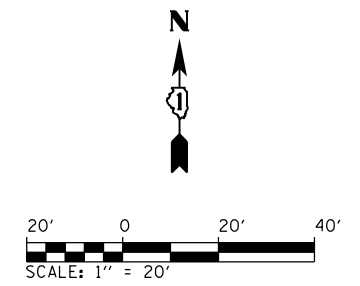
SIGNING DETAILS - KDOT			
SPECIFICATIONS TELESCOPING SIGN POST			
SCALE:	SHEET 2	OF 2 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	120
CONTRACT NO.				61E67
ILLINOIS		FED. AID PROJECT		

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PLOT DATE = 9/6/2018 (10:02:13 PM)

USER NAME = Brad Feltch
DIRECTORY = L:\B\14017201-02_Dierpath\Draw\CADD_Sheets\..



MATCH LINE STA. 507+00.00

LEGEND

(A)	SEEDING, CLASS 2A (25000210) EROSION CONTROL BLANKET (25100630) TOPSOIL FURNISH AND PLACE, 6" (21101625)	(D)	DRAINAGE INLET	(H)	FURROW
(B)	SEEDING, CLASS 4 (MODIFIED) (X2501800) SEEDING, CLASS 5 (MODIFIED) (X2501820) EROSION CONTROL BLANKET (25100630) TOPSOIL FURNISH AND PLACE, 6" (21101625)	(E)	DRAINAGE STRUCTURE	(I)	EX COMPENSATORY STORAGE
(C)	SODDING, SALT TOLERANT (25200110) TOPSOIL FURNISH AND PLACE, 6" (21101625)	(F)	FLARED END SECTION		
(G)	RIP-RAP				



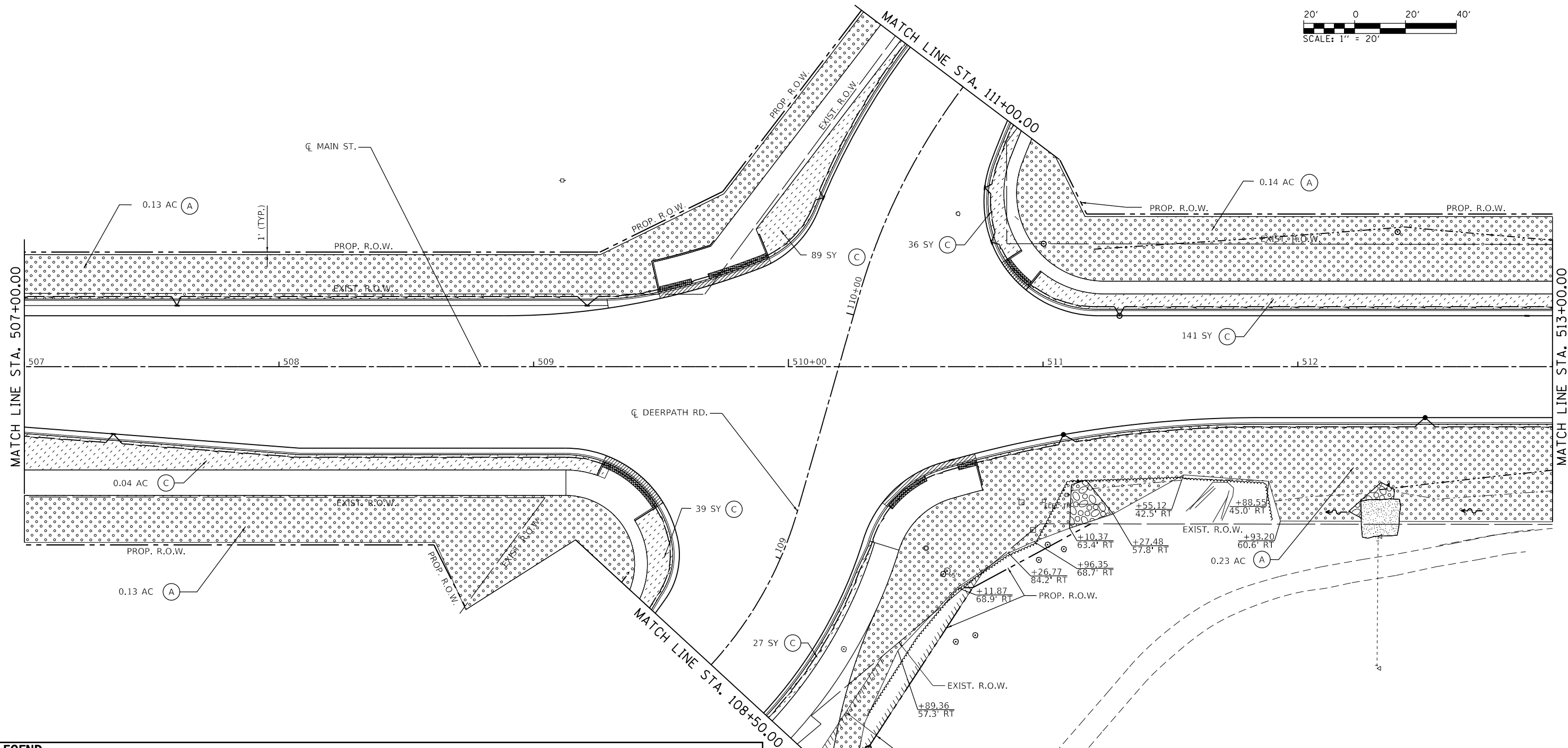
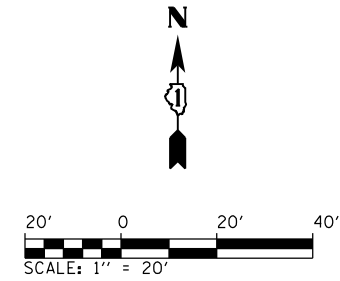
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PLOT DATE = 9/6/2018 - 10:02:13 PM	DATE - 9/7/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**LANDSCAPING PLAN
MAIN ST**

SCALE: 1"=20' SHEET 1 OF 5 SHEETS STA. 501+00 TO STA. 507+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	121
CONTRACT NO. 61E67			ILLINOIS FED. AID PROJECT	



LEGEND

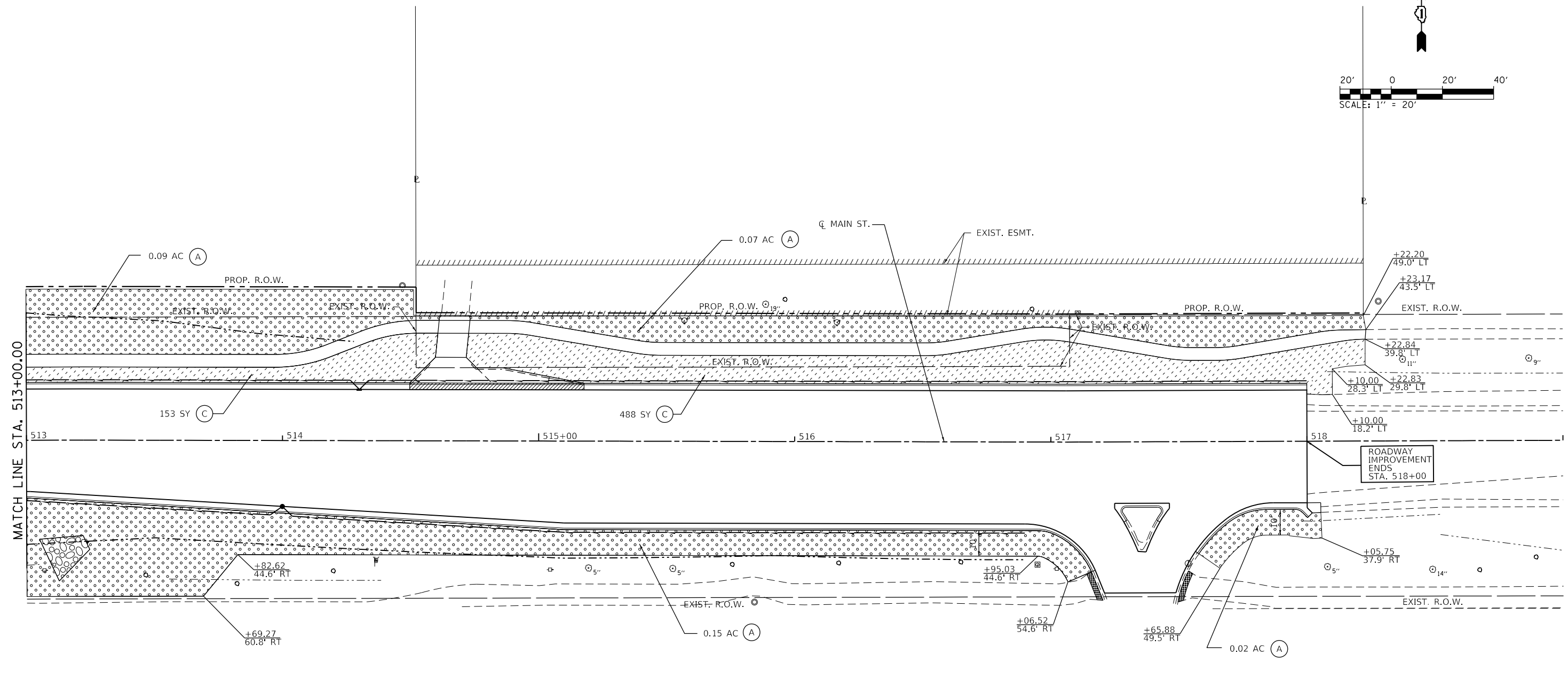
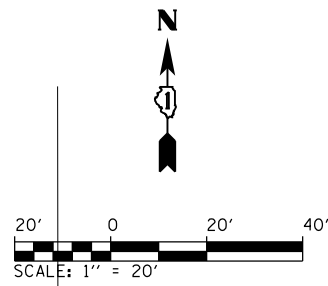
(A)	SEEDING, CLASS 2A (25000210) EROSION CONTROL BLANKET (25100630) TOPSOIL FURNISH AND PLACE, 6" (21101625)	(D)	DRAINAGE INLET	(H)	FURROW
(B)	SEEDING, CLASS 4 (MODIFIED) (X2501800) SEEDING, CLASS 5 (MODIFIED) (X2501820) EROSION CONTROL BLANKET (25100630) TOPSOIL FURNISH AND PLACE, 6" (21101625)	(E)	DRAINAGE STRUCTURE	(I)	EX COMPENSATORY STORAGE
(C)	SODDING, SALT TOLERANT (25200110) TOPSOIL FURNISH AND PLACE, 6" (21101625)	(F)	FLARED END SECTION		
		(G)	RIP-RAP		

CMT License No. 184-000613	FILE NAME = D:\14003-shil-landscp02.dgn	DESIGNED - BRF	REVISED -
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	PLOT DATE = 9/6/2018 - 10:02:14 PM	DATE - 9/7/2018	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
 MAIN ST
 SCALE: 1"=20'
 SHEET 2 OF 5 SHEETS
 STA. 507+00 TO STA. 513+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	122
CONTRACT NO.			61E67	
ILLINOIS FED. AID PROJECT				



LEGEND			
(A)		SEEDING, CLASS 2A (25000210) EROSION CONTROL BLANKET (25100630) TOPSOIL FURNISH AND PLACE, 6" (21101625)	(H)
(B)		SEEDING, CLASS 4 (MODIFIED) (X2501800) SEEDING, CLASS 5 (MODIFIED) (X2501820) EROSION CONTROL BLANKET (25100630) TOPSOIL FURNISH AND PLACE, 6" (21101625)	(E)
(C)		SODDING, SALT TOLERANT (25200110) TOPSOIL FURNISH AND PLACE, 6" (21101625)	(F)
(D)		DRAINAGE INLET	(I)
(E)		DRAINAGE STRUCTURE	
(F)		FLARED END SECTION	
(G)		RIP-RAP	

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	PLOT SCALE = 40,0000' / in.	CHECKED - JWD	REVISED -
	PLOT DATE = 9/6/2018 - 10:02:15 PM	DATE - 9/7/2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN
 MAIN ST**

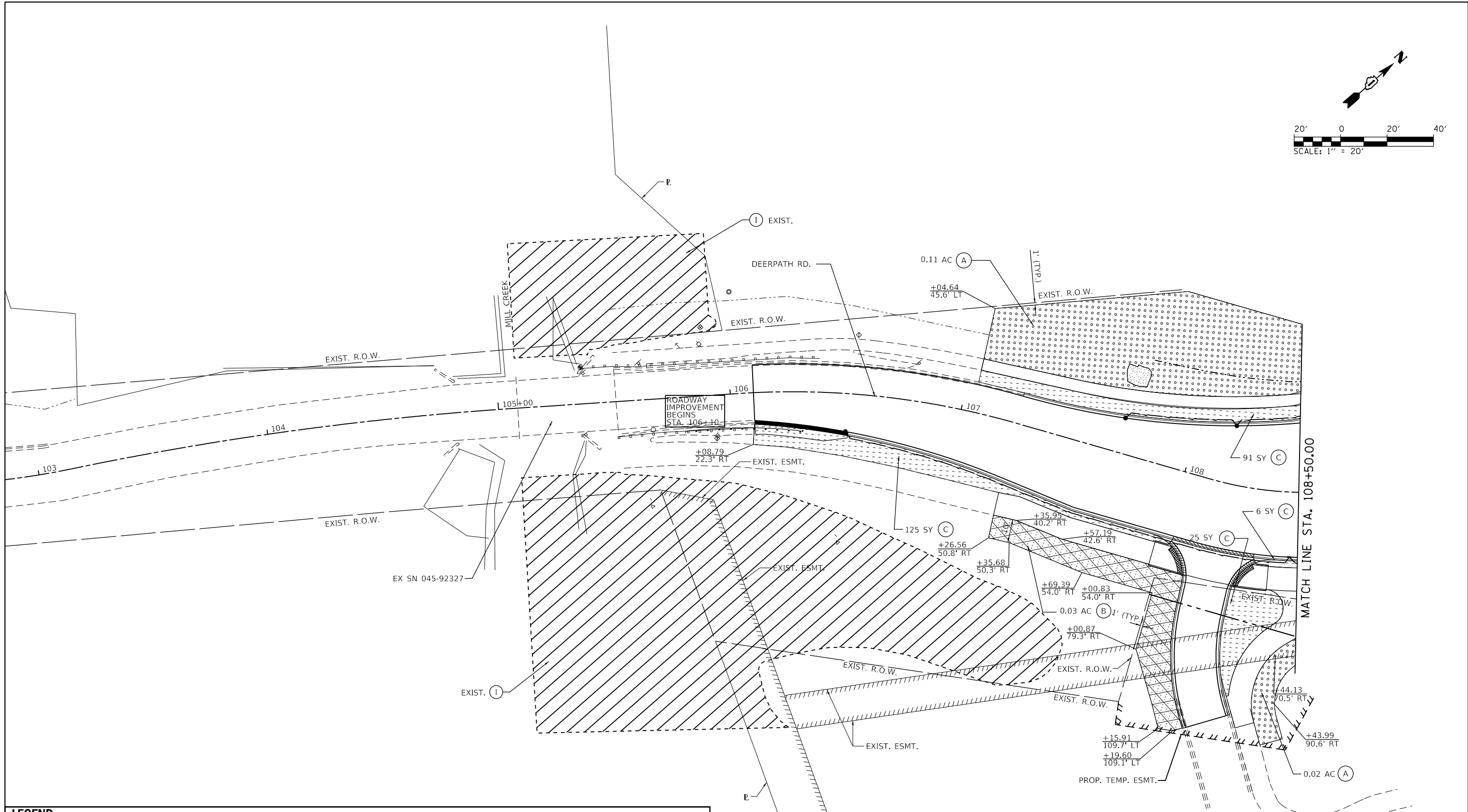
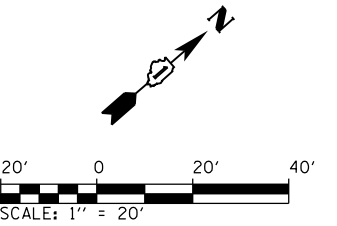
SCALE: 1"=20' SHEET 3 OF 5 SHEETS STA. 513+00 TO STA. 51900

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	123
CONTRACT NO. 61E67				
ILLINOIS FED. AID PROJECT				

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DIRCTORY = L:\Bw\17201-02_Deerpath\Draw\CADD_Sheets...



LEGEND		
(A) [Pattern]	SEEDING, CLASS 2A (25000210) EROSION CONTROL BLANKET (25100630) TOPSOIL FURNISH AND PLACE, 6" (21101625)	(D) [Symbol] DRAINAGE INLET
(B) [Pattern]	SEEDING, CLASS 4 (MODIFIED) (X2501800) SEEDING, CLASS 5 (MODIFIED) (X2501820) EROSION CONTROL BLANKET (25100630) TOPSOIL FURNISH AND PLACE, 6" (21101625)	(E) [Symbol] DRAINAGE STRUCTURE
(C) [Pattern]	SODDING, SALT TOLERANT (25200110) TOPSOIL FURNISH AND PLACE, 6" (21101625)	(F) [Symbol] FLARED END SECTION
(G) [Pattern]	RIP-RAP	(H) [Symbol] FURROW
(I) [Pattern]	EX COMPENSATORY STORAGE	



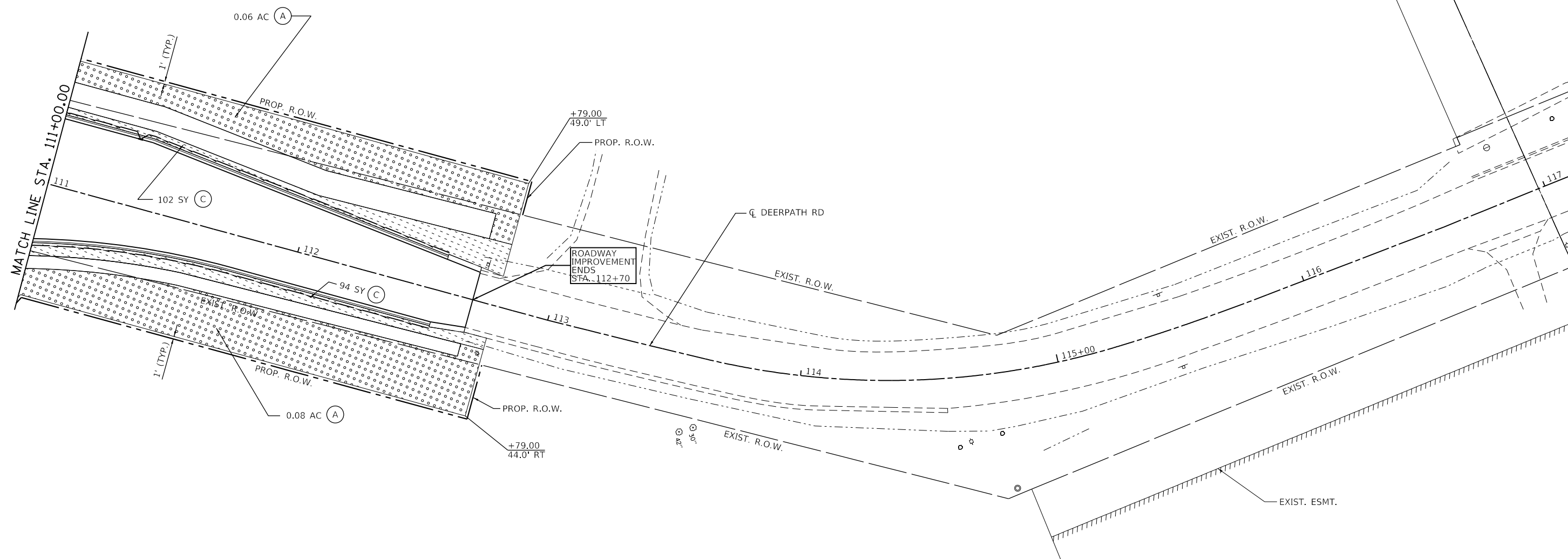
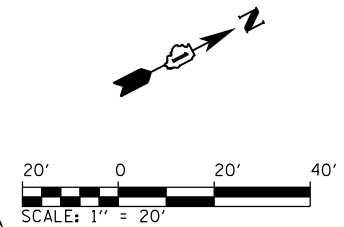
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN
DEERPATH RD**

SCALE: 1"=20' SHEET 4 OF 5 SHEETS STA. 102+50 TO STA. 108+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	124
CONTRACT NO. 61E67				
ILLINOIS FED. AID PROJECT				



LEGEND			
(A)		SEEDING, CLASS 2A (25000210) EROSION CONTROL BLANKET (25100630) TOPSOIL FURNISH AND PLACE, 6" (21101625)	(D) DRAINAGE INLET
(B)		SEEDING, CLASS 4 (MODIFIED) (X2501800) SEEDING, CLASS 5 (MODIFIED) (X2501820) EROSION CONTROL BLANKET (25100630) TOPSOIL FURNISH AND PLACE, 6" (21101625)	(E) DRAINAGE STRUCTURE
(C)		SODDING, SALT TOLERANT (25200110) TOPSOIL FURNISH AND PLACE, 6" (21101625)	(F) FLARED END SECTION
(G)		RIP-RAP	(H) FURROW
(I)		EX COMPENSATORY STORAGE	

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN
 DEERPATH RD**

SCALE: 1"=20' SHEET 5 OF 5 SHEETS STA. 111+00 TO STA. 117+00

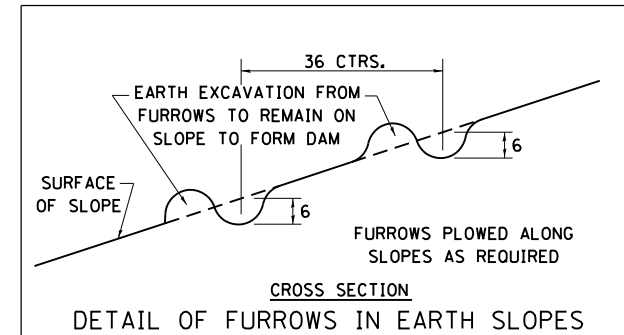
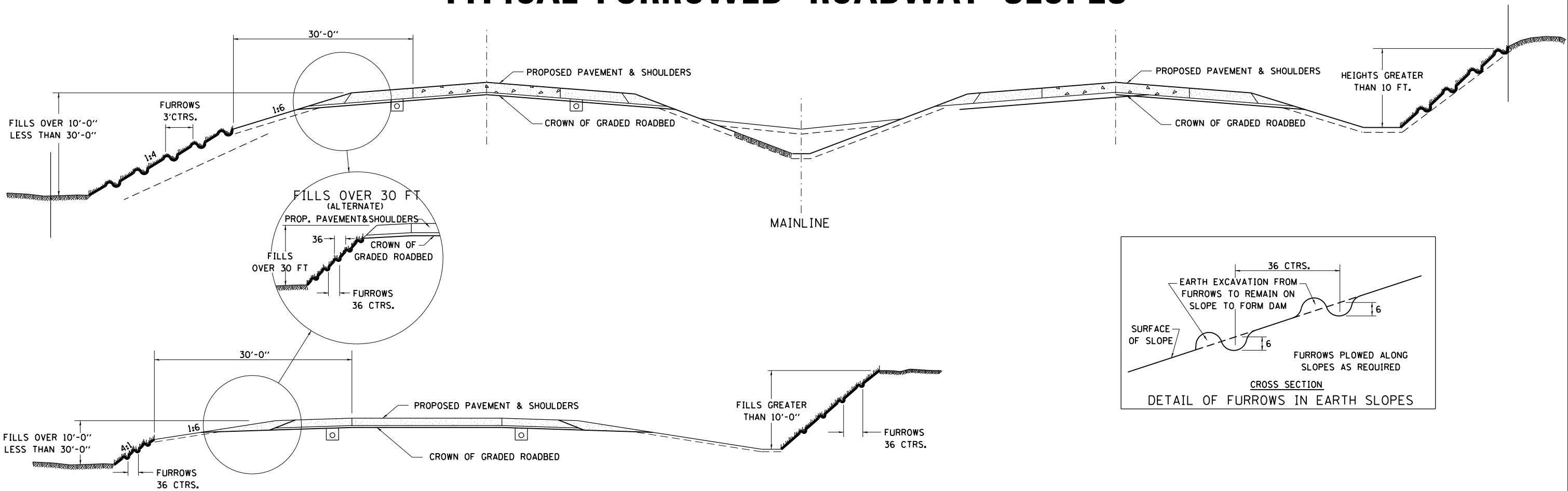
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524	14-00448-00-CH	KANE	183	125
CONTRACT NO.				61E67
ILLINOIS FED. AID PROJECT				

TYPICAL FURROWED ROADWAY SLOPES

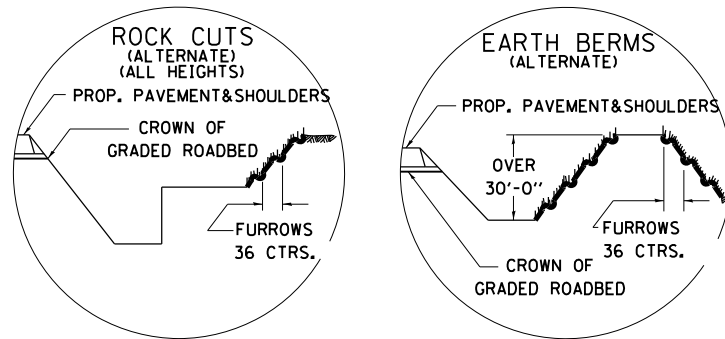
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RAMPS



GENERAL NOTES

IN GENERAL, THE ENTIRE EARTH SURFACE WITHIN THE RIGHT-OF-WAY SHALL BE SEEDING AND MULCHED.

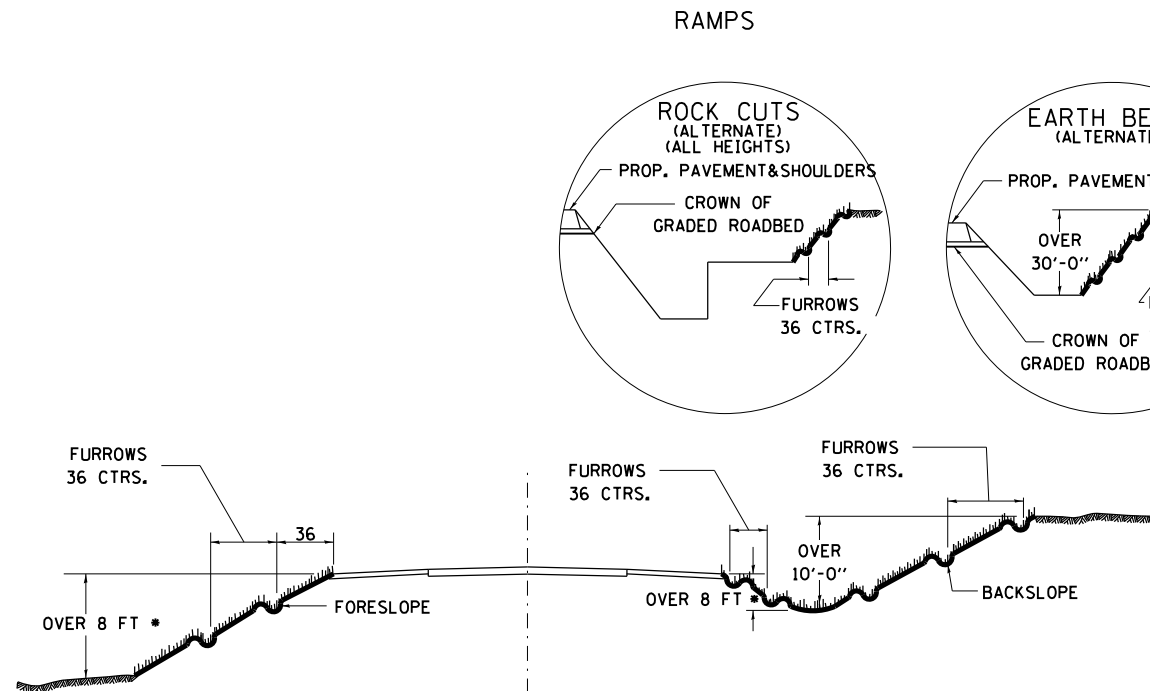
NO AGRICULTURAL GROUND LIMESTONE SHALL BE APPLIED TO THE GRADED ROADBED.

FORESLOPES AND/OR BACKSLOPES 10 FT. OR LESS IN HEIGHT WILL NOT REQUIRE FURROWING UNLESS OTHERWISE NOTED IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

FORESLOPES AND/OR BACKSLOPES OVER 10 FT. IN HEIGHT SHALL BE FURROWED. THE OPERATION SHALL INCLUDE FINISHING THE SLOPES TO FINAL LINE AND GRADE, AS SHOWN ON THE CROSS SECTIONS BEFORE FURROWING IS DONE. FURROWS SHALL BE PLOWED ALONG A LEVEL LINE CONFORMING TO THE CONTOURS OF THE SLOPE. THE COST OF FURROWING SHALL BE CONSIDERED INCLUDED IN THE PROJECT COST AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

SEQUENCE AND OPERATION FOR SEEDING, MULCHING AND FURROWING OF ROADWAY SLOPES:

1. SPREAD FERTILIZER.
2. PERFORM THE OPERATION OF GROUND PREPARATION.
3. PLOW FURROWS.
4. PERFORM THE OPERATION OF SEEDING. THE SEED SHALL BE SOWN ON THE SURFACE OF THE PREPARED GROUND AFTER FURROWING.
5. THE OPERATION OF COVERING THE SEED, BY HARROWING OR OTHER MEANS, SHALL BE PERFORMED ONLY IF SO DIRECTED BY THE ENGINEER AND SHALL BE INCLUDED TO THE ITEM OF SEEDING.
6. SECTION 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS NOTED HEREIN.



* IF FORESLOPES ARE SIMILAR TO MAINLINE OR RAMP CONFIGURATION, FURROW AS INDICATED FOR THOSE SLOPES.

CROSSROAD GRADE SEPERATIONS

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



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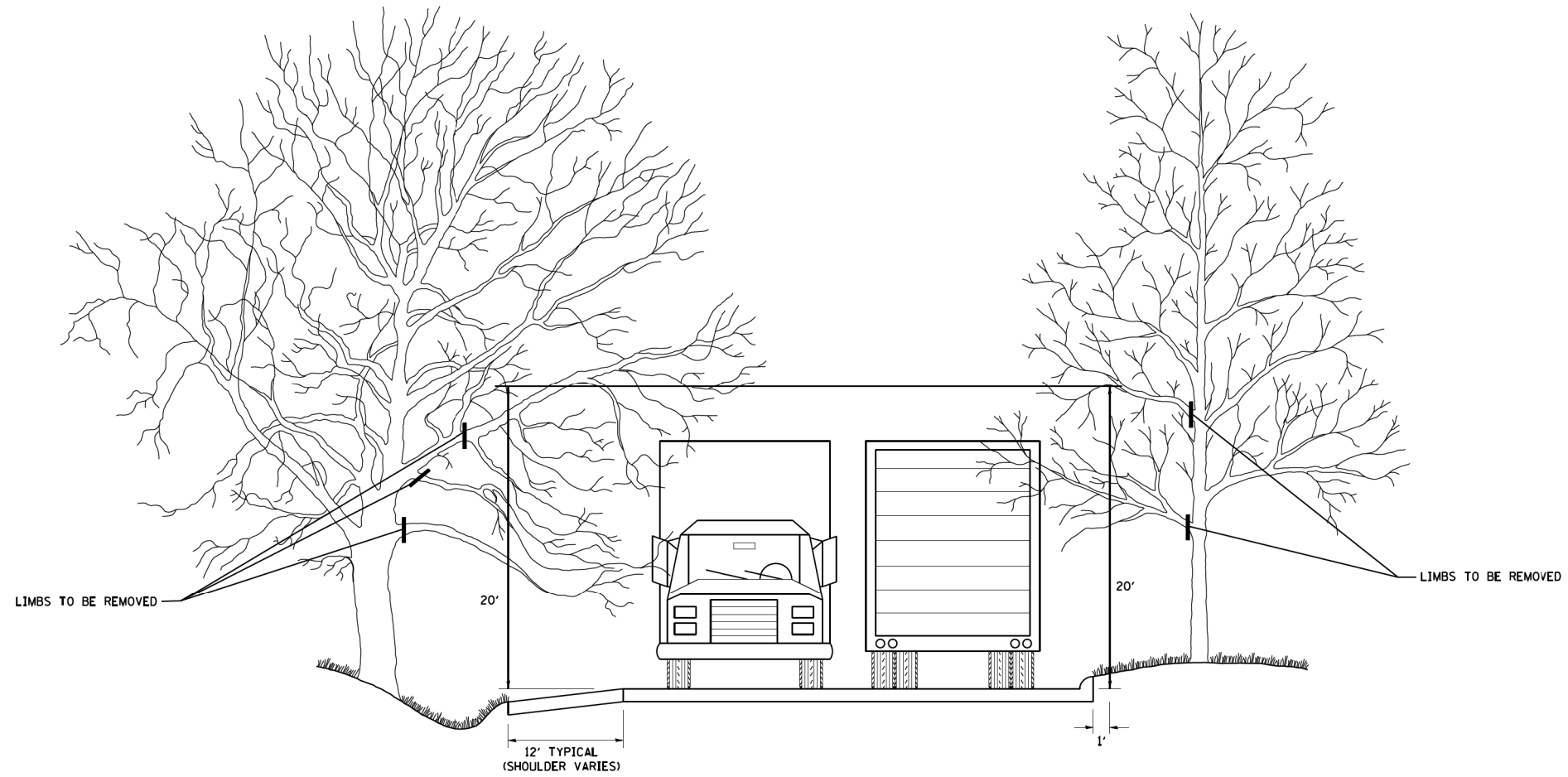
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING DETAIL
TYPICAL FURROWED ROADWAY SLOPES (LS-1.1)

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	126
CONTRACT NO.			61E67	
ILLINOIS		FED. AID PROJECT		



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DATE -	REVISD -

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DATE -	REVISD -

DESIGNED -	REVISD -
DRAWN -	REVISD -
CHECKED -	REVISD -
DATE -	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE	
SCALE: NONE	SHEET NO. 2 OF 2 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	127
BM-20		CONTRACT NO.	61E67	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

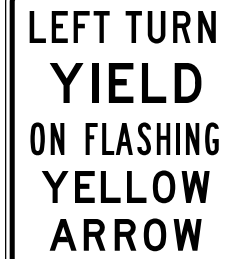
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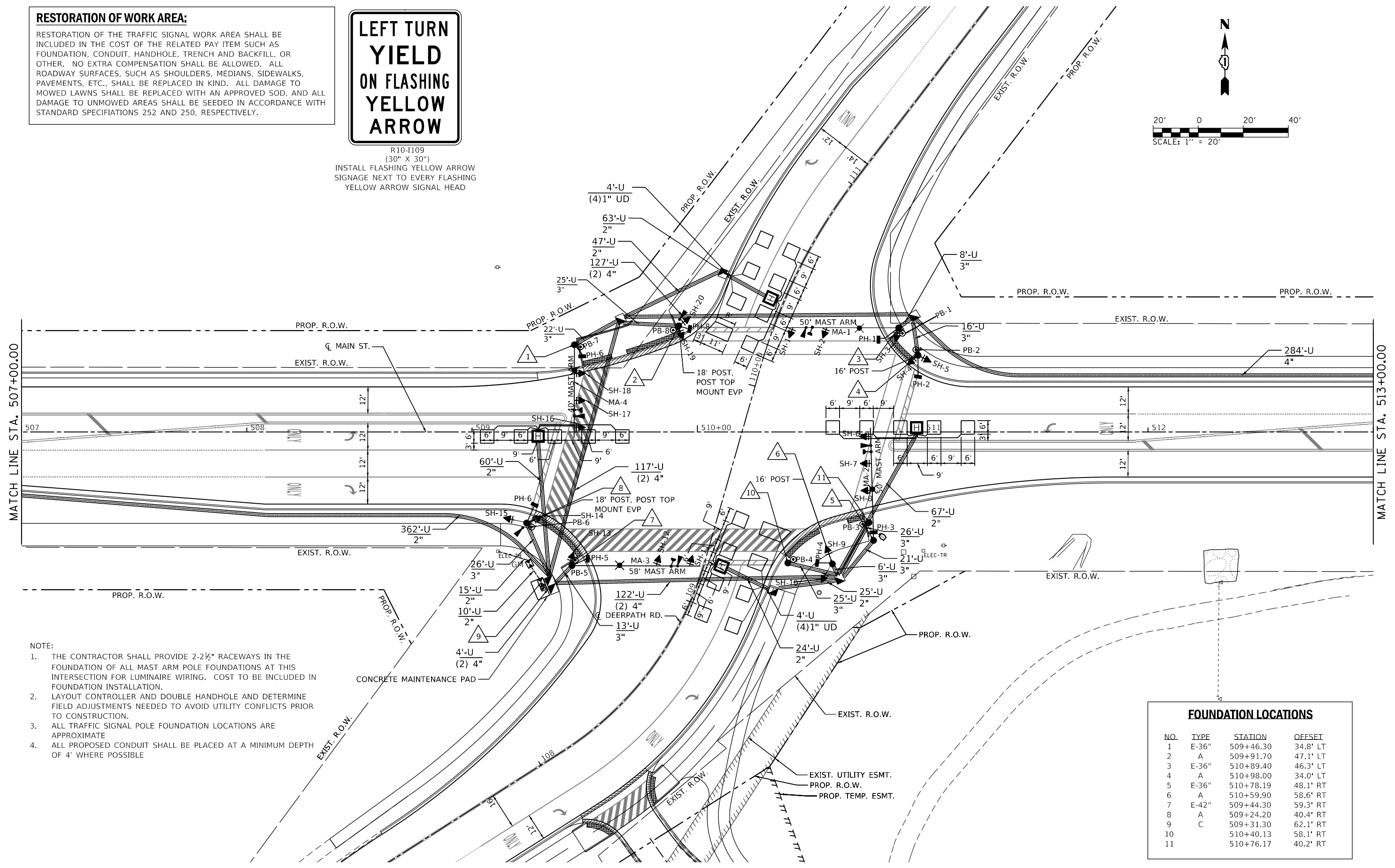
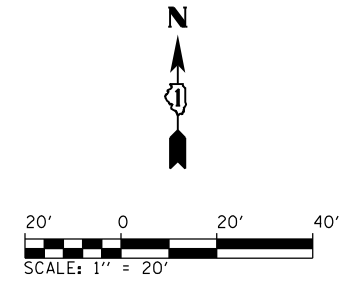
USER NAME = Brad Feltch
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RESTORATION OF WORK AREA:

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE COST OF THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, OR OTHER. NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES, SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENTS, ETC., SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED AREAS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250, RESPECTIVELY.



R10-1109
 (30" X 30")
 INSTALL FLASHING YELLOW ARROW SIGNAGE NEXT TO EVERY FLASHING YELLOW ARROW SIGNAL HEAD



NOTE:

1. THE CONTRACTOR SHALL PROVIDE 2-2½" RACEWAYS IN THE FOUNDATION OF ALL MAST ARM POLE FOUNDATIONS AT THIS INTERSECTION FOR LUMINAIRE WIRING. COST TO BE INCLUDED IN FOUNDATION INSTALLATION.
2. LAYOUT CONTROLLER AND DOUBLE HANDHOLE AND DETERMINE FIELD ADJUSTMENTS NEEDED TO AVOID UTILITY CONFLICTS PRIOR TO CONSTRUCTION.
3. ALL TRAFFIC SIGNAL POLE FOUNDATION LOCATIONS ARE APPROXIMATE
4. ALL PROPOSED CONDUIT SHALL BE PLACED AT A MINIMUM DEPTH OF 4' WHERE POSSIBLE

FOUNDATION LOCATIONS			
NO.	TYPE	STATION	OFFSET
1	E-36"	509+46.30	34.8' LT
2	A	509+91.70	47.1' LT
3	E-36"	510+89.40	46.3' LT
4	A	510+98.00	34.0' LT
5	E-36"	510+78.19	48.1' RT
6	A	510+59.90	58.6' RT
7	E-42"	509+44.30	59.3' RT
8	A	509+24.20	40.4' RT
9	C	509+31.30	62.1' RT
10		510+40.13	58.1' RT
11		510+76.17	40.2' RT



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

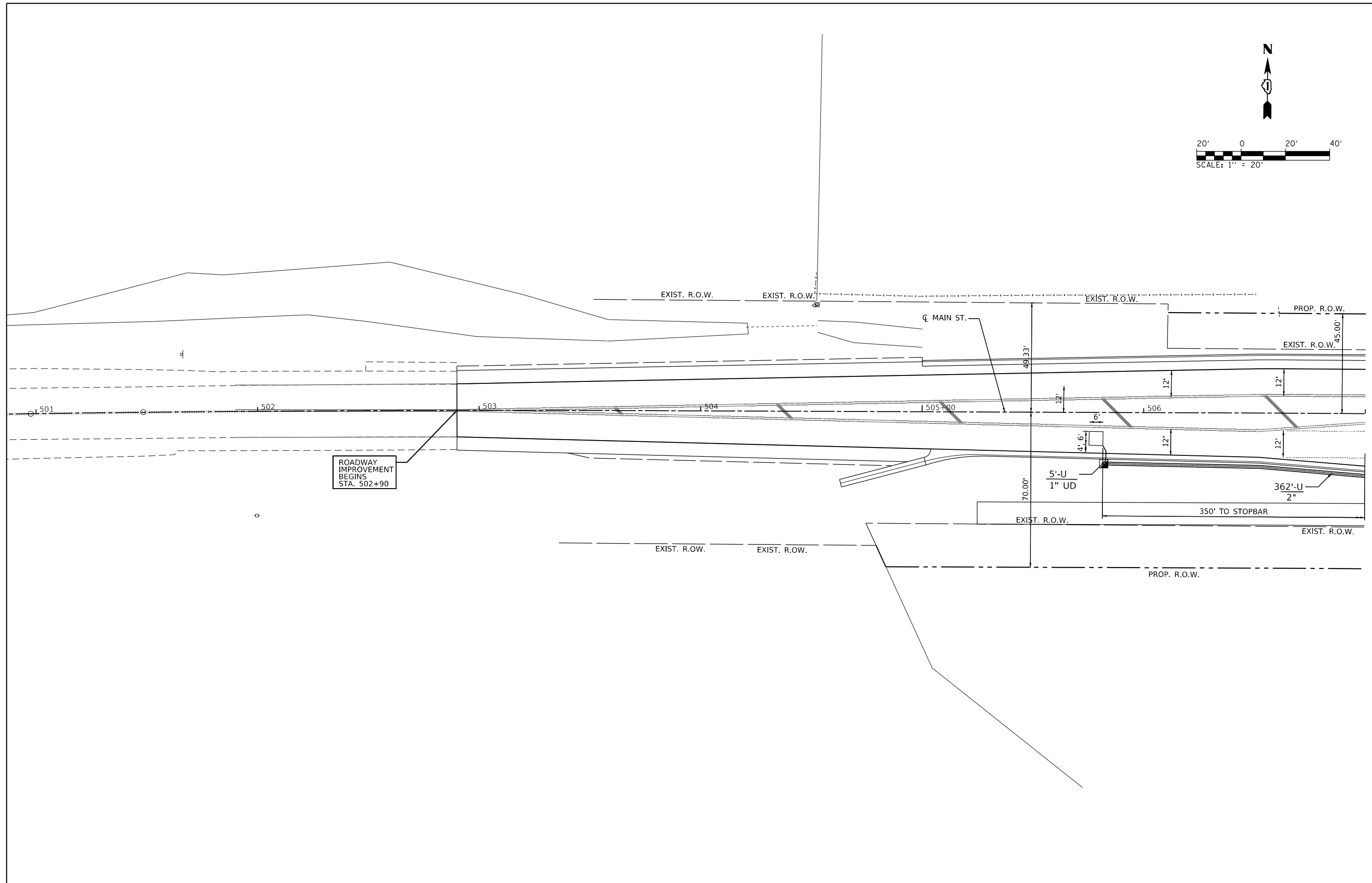
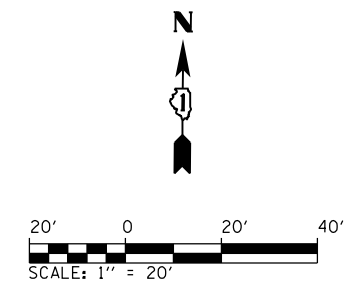
TRAFFIC SIGNAL PLAN
 DEERPATH RD & MAIN ST
 SCALE: 1" = 20' SHEET 2 OF 6 SHEETS STA. 507+00 TO STA. 513+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	129
				CONTRACT NO. 61E67
ILLINOIS FED. AID PROJECT				

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

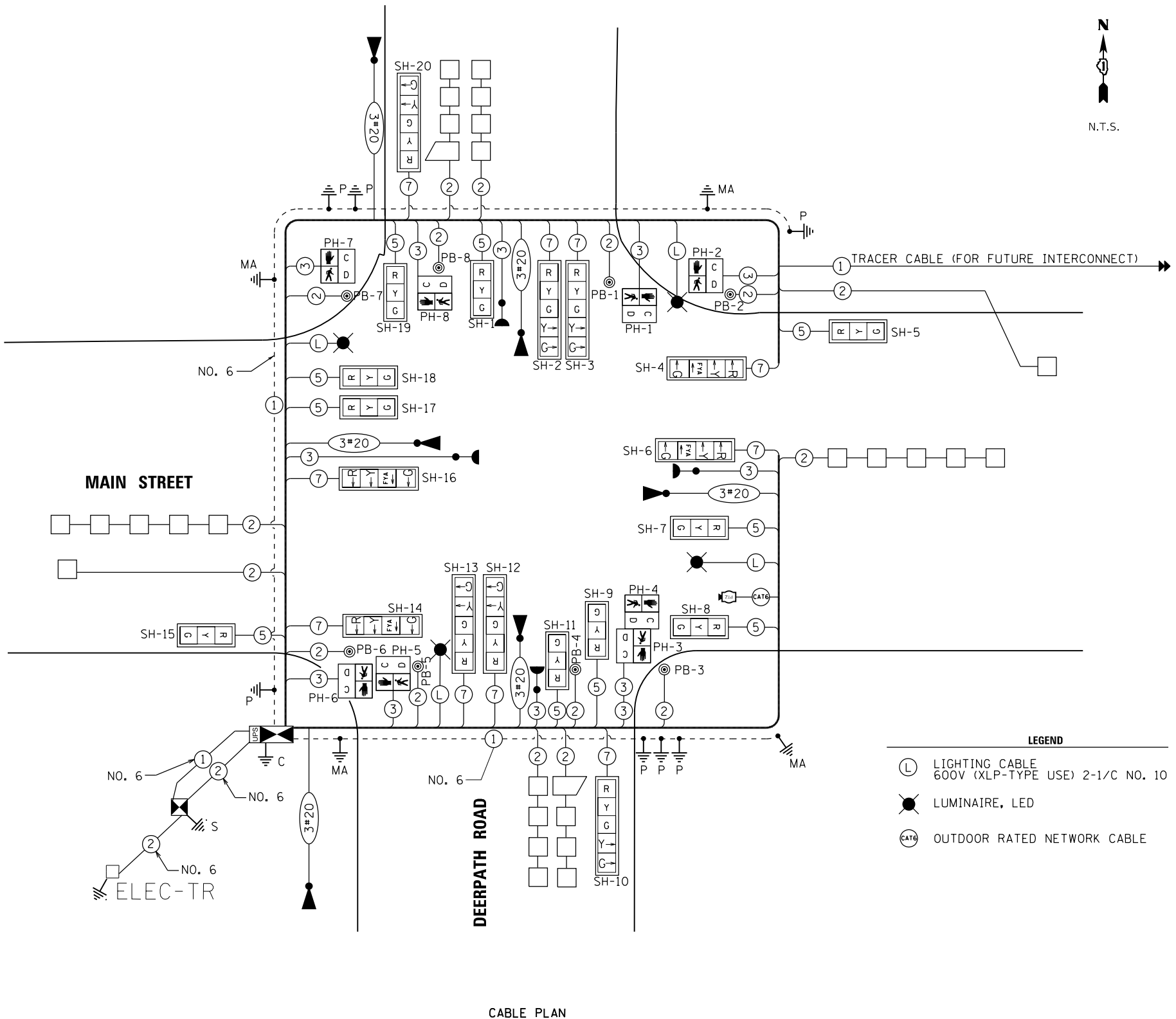
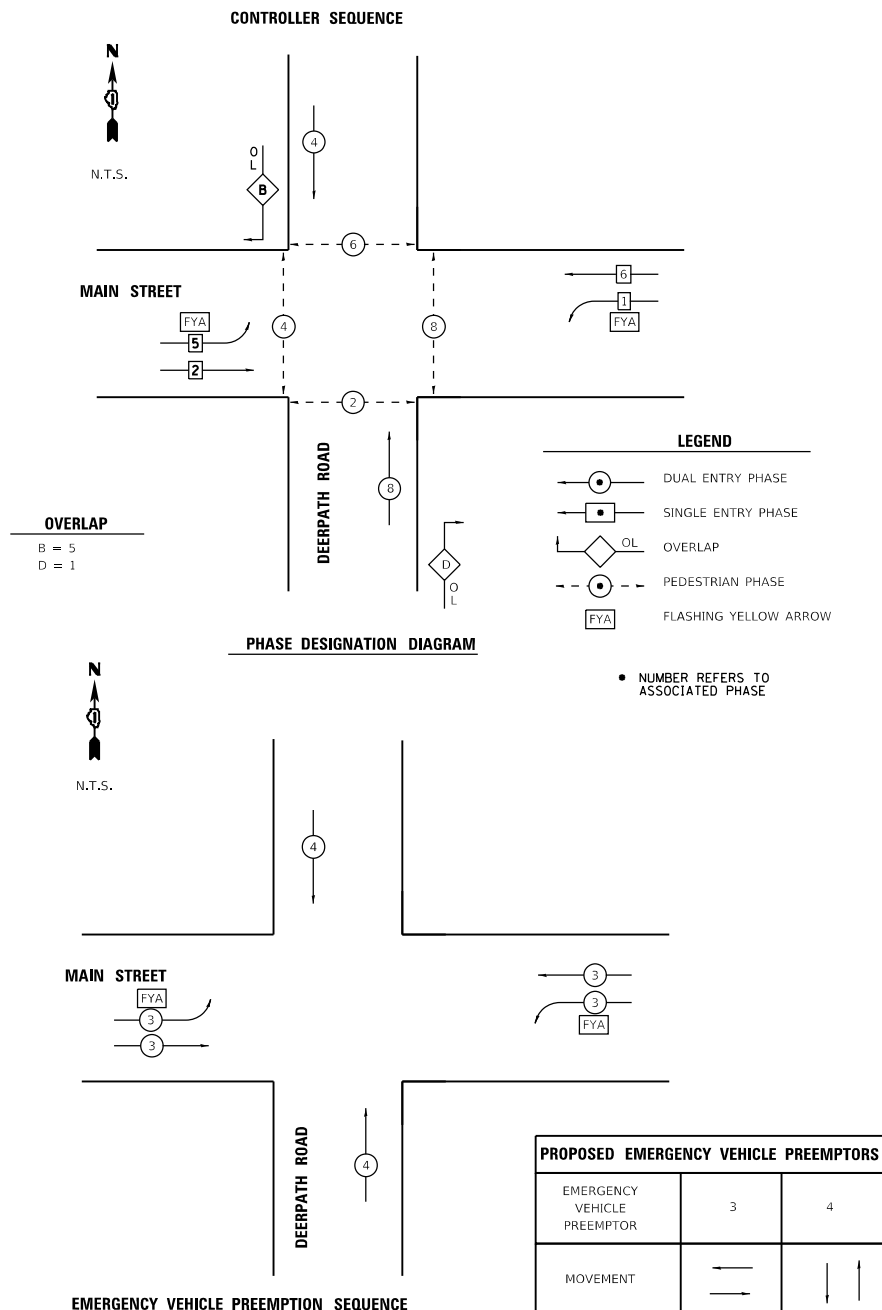
TRAFFIC SIGNAL PLAN
DEERPATH RD & MAIN ST - INSTALLATION PLAN
 SCALE: 1" = 20' SHEET 3 OF 6 SHEETS STA. 501+00 TO STA. 507+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	130
CONTRACT NO. 61E67				
ILLINOIS FED. AID PROJECT				

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

TYPE	NO. OF LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	16	11	50		88.00
(YELLOW)	16		20	5	16.00
(GREEN)	16		12	45	86.40
ARROW (EXCEPT FYA)	20		10	10	20.00
FLASHING YELLOW ARROW (FYA)	4		12	30	14.40
PED. SIGNAL	8		20	100	160.00
PTZ CAMERA	1		60	100	60.00
CONTROLLER	1		100	100	100.00
LUMINAIRE	4		190	50	380.00
TOTAL =					824.80

ENERGY COSTS TO:

KANE COUNTY DIVISION OF TRANSPORTATION
 41W011 BURLINGTON ROAD
 ST. CHARLES, IL 60175

ENERGY SUPPLY: CONTACT: MUSTAFA KAHVEDZIC
 PHONE: (630) 454-2353
 COMPANY: CITY OF BATAVIA

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN
 DEERPATH RD & MAIN ST

SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.

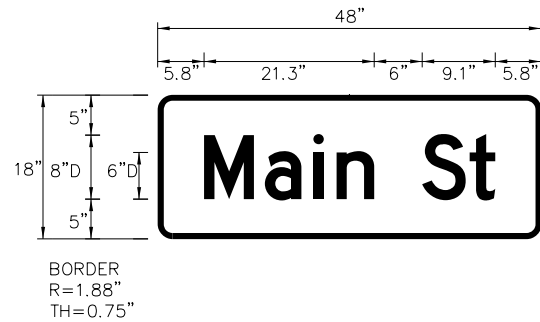
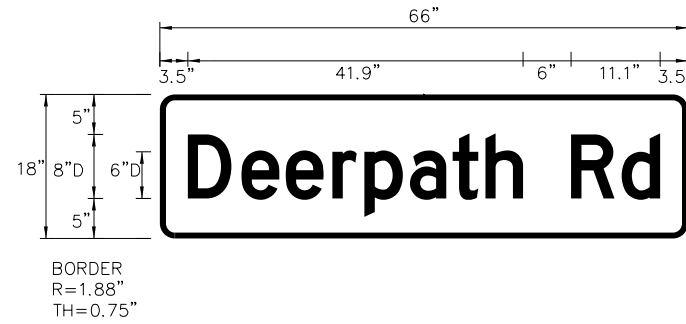
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CONTRACT NO. 61E67				

ILLINOIS FED. AID PROJECT



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S.P.	CODE NO.	PAY ITEM DESCRIPTION	UNIT	QUANTITY
	80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
	81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	673
	81028770	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 3" DIA.	FOOT	168
	81028790	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA.	FOOT	1,446
	81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	8
	81400710	HEAVY-DUTY HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	4
	81400720	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
	87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1,022
	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,393
	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,449
	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,366
	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,917
	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,969
	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	34
	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,959
	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
	87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	2
	87700290	STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1
	87700340	STEEL MAST ARM ASSEMBLY AND POLE, 58 FT.	EACH	1
	87702930	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1
	87702980	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	1
	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	20
	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	1
	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	43
	87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
	88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
	88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
	88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
	88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
	88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
	88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
	88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	8
	88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
	88500100	INDUCTIVE LOOP DETECTOR	EACH	8
	88600100	DETECTOR LOOP, TYPE I	FOOT	1,141
	88700200	LIGHT DETECTOR	EACH	4
	88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
	88800100	PEDESTRIAN PUSH-BUTTON	EACH	8
*	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	904
*	X0325839	SIGNAL TIMING	L SUM	1
*	X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	160
*	X1400107	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1
*	X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
*	X8760055	PEDESTRIAN PUSH-BUTTON POST, TYPE A	EACH	2
*	XX007251	INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
*	XX008453	ETHERNET SWITCH, TYPE 1	EACH	1
*	XX008963	THREE CELL FABRIC INNERDUCT	FOOT	965



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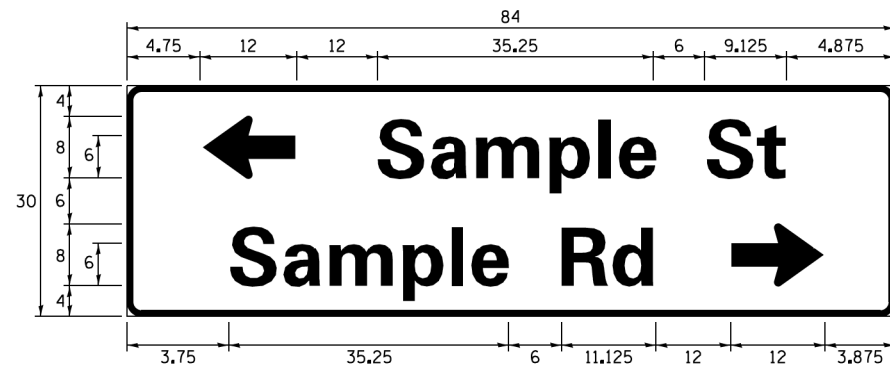
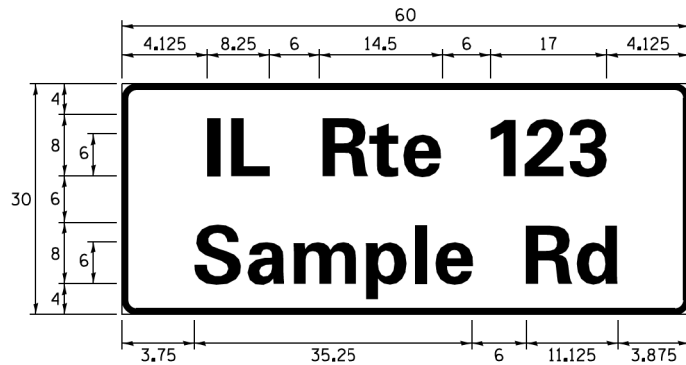
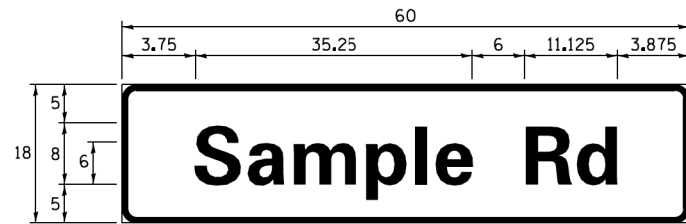
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL SCHEDULE
 MAST ARM MOUNTED SIGN DETAILS

SCALE: SHEET 6 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	133
CONTRACT NO.			61E67	
ILLINOIS		FED. AID PROJECT		

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	ABBREVIATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	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

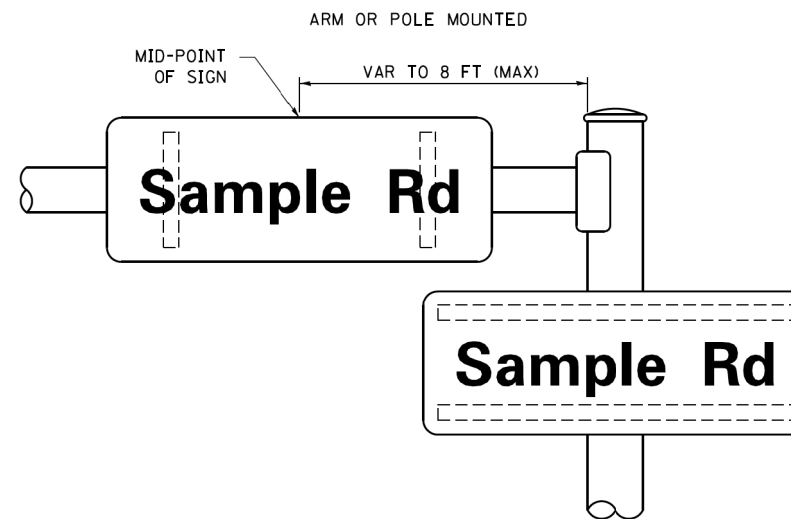
GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE 3/4" 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 MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- 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.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

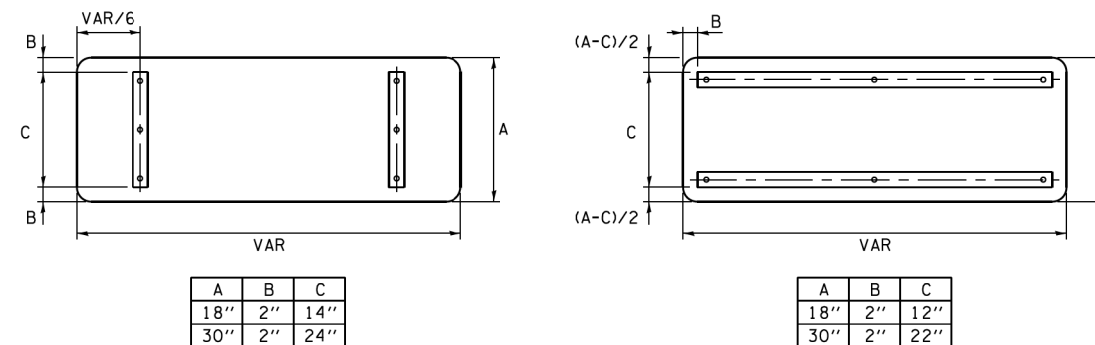
LOCAL SUPPLIERS:	PARTS LISTING:
- J.O. HERBERT COMPANY, INC MIDLOTHIAN, VA	SIGN CHANNEL PART *HPN053 (MED. CHANNEL) SIGN SCREWS 1/4" x 14 x 1" N.W.H. #3
- WESTERN REMAC, INC. WOODRIDGE, IL	SELF TAPPING WITH NEOPRENE WASHER BRACKETS PART *HPN034 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

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

MOUNTING LOCATION



SUPPORTING CHANNELS



STANDARD ALPHABETS SPACING CHART

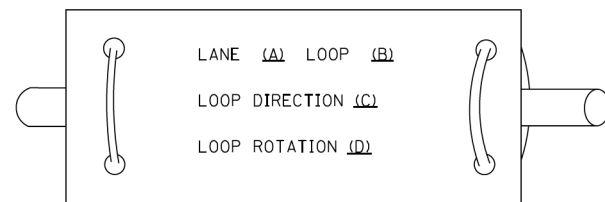
(8") UPPER CASE AND (6") LOWER CASE

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

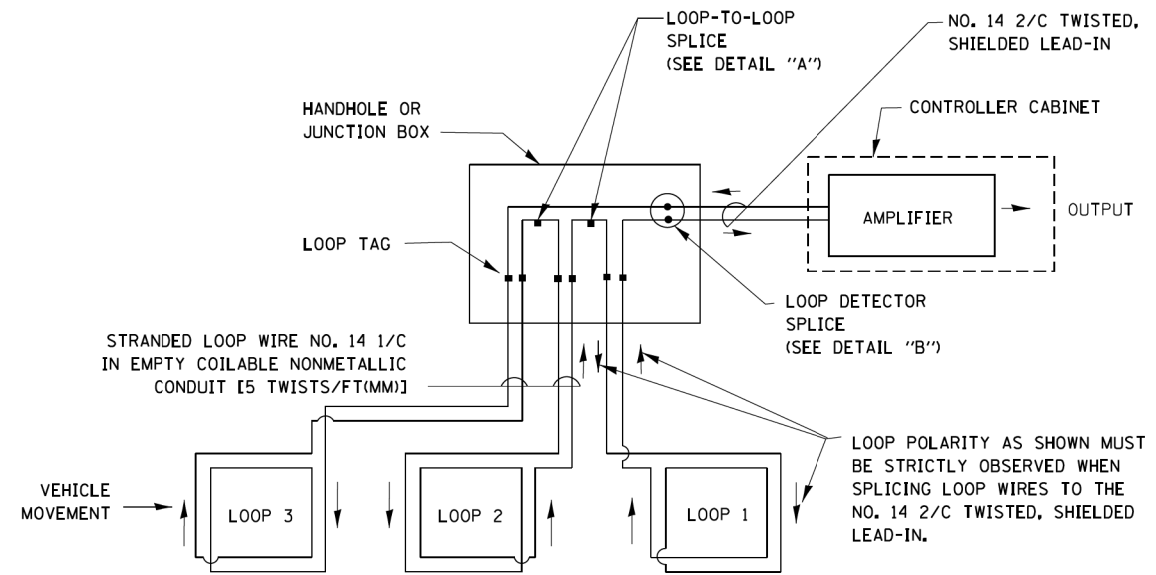
LOOP DETECTOR NOTES

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

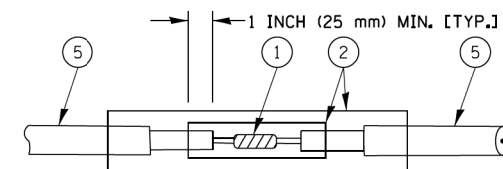


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

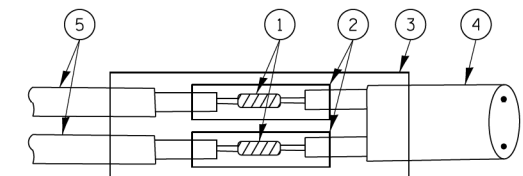


DETECTOR LOOP WIRING SCHEMATIC

- 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.

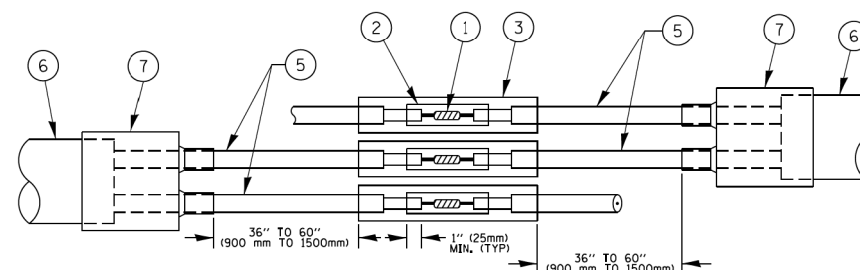


DETAIL "A"
LOOP-TO-LOOP SPLICE

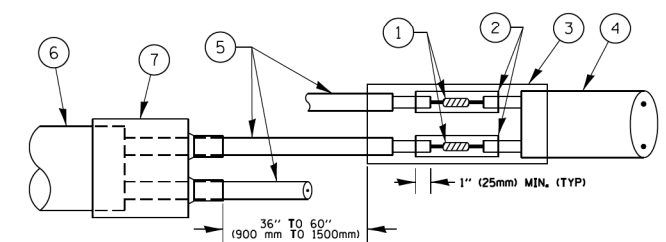


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

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

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
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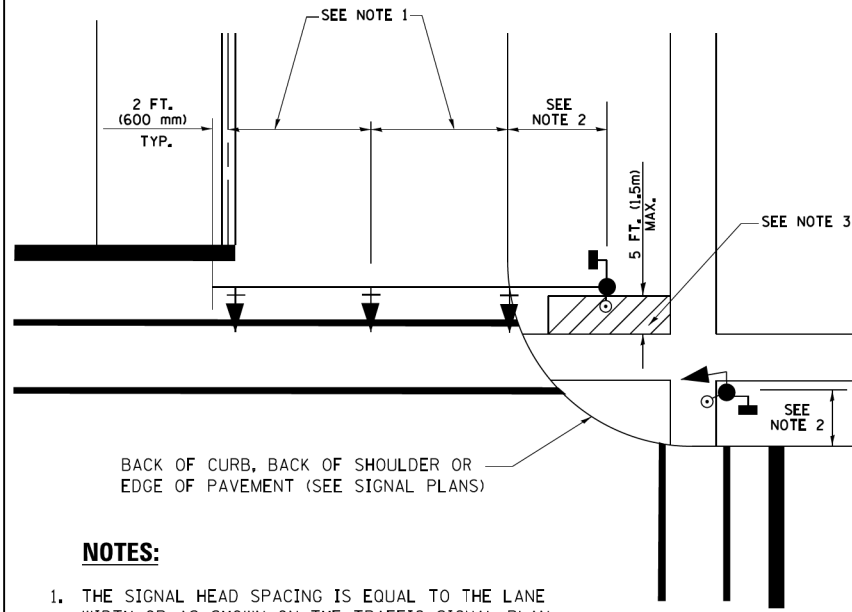
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET NO. 2 OF 10 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	135
TS-05		CONTRACT NO.	61E67	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

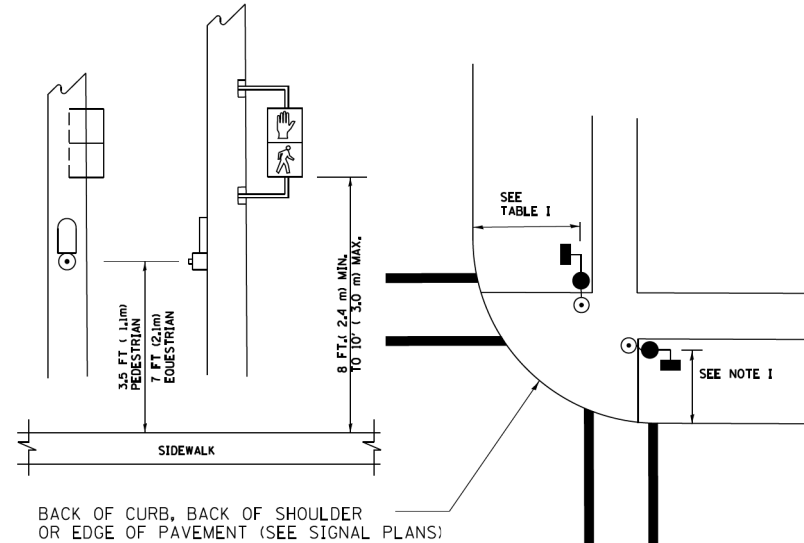
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

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

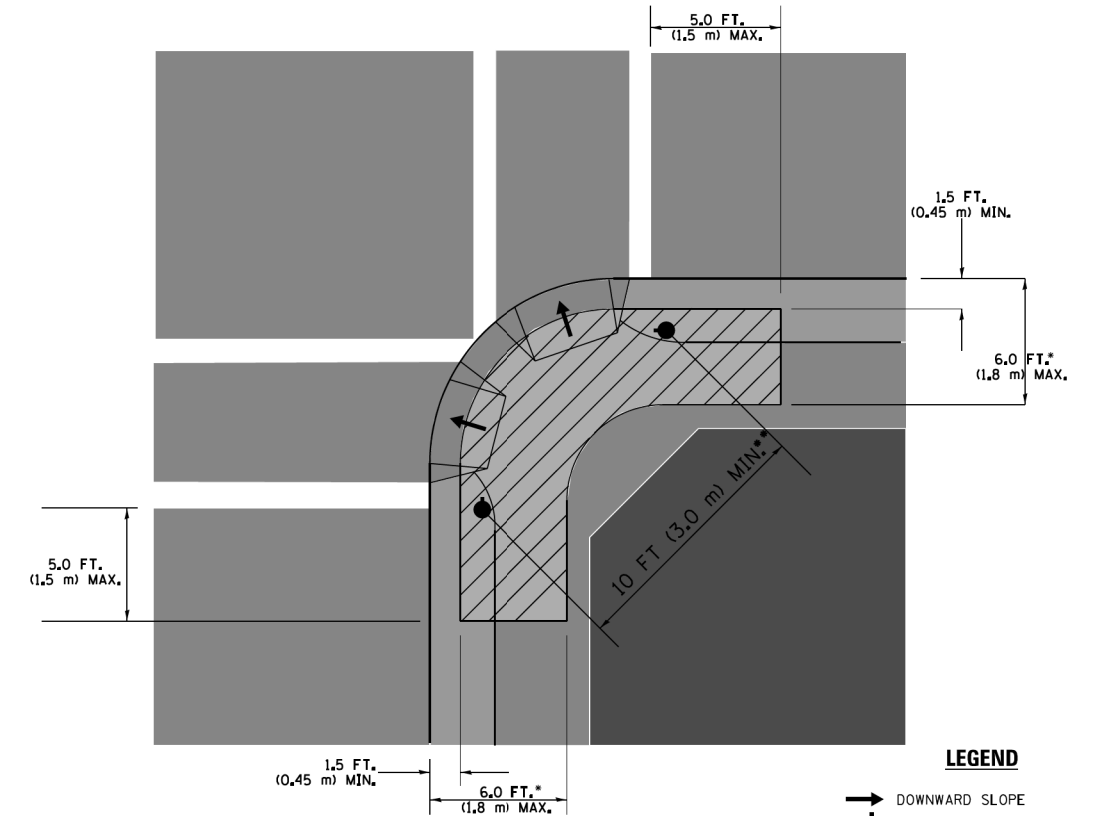
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- RECOMMENDED PUSHBUTTON LOCATIONS

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

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

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

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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**

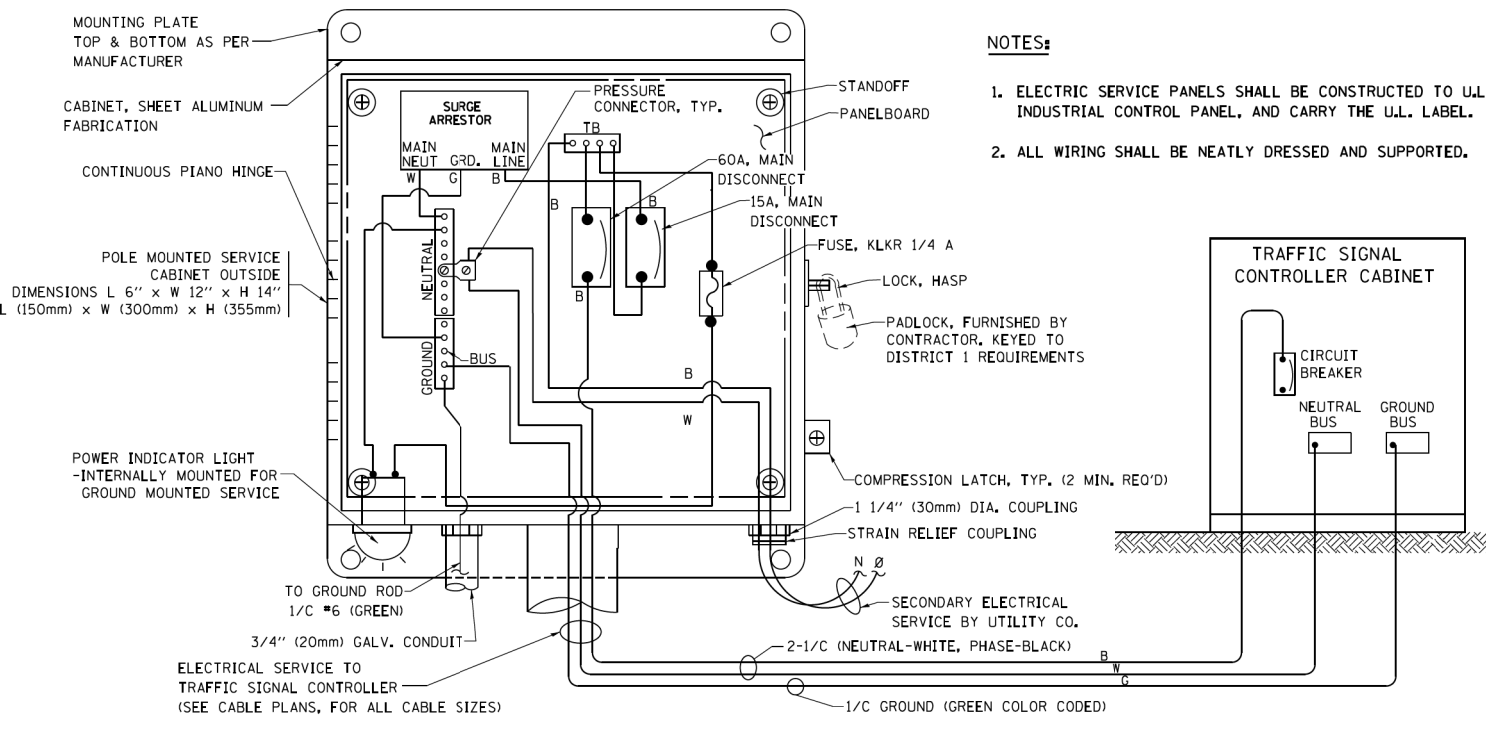
SCALE: NONE SHEET NO. 3 OF 10 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TS-05		CONTRACT NO.	61E67	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

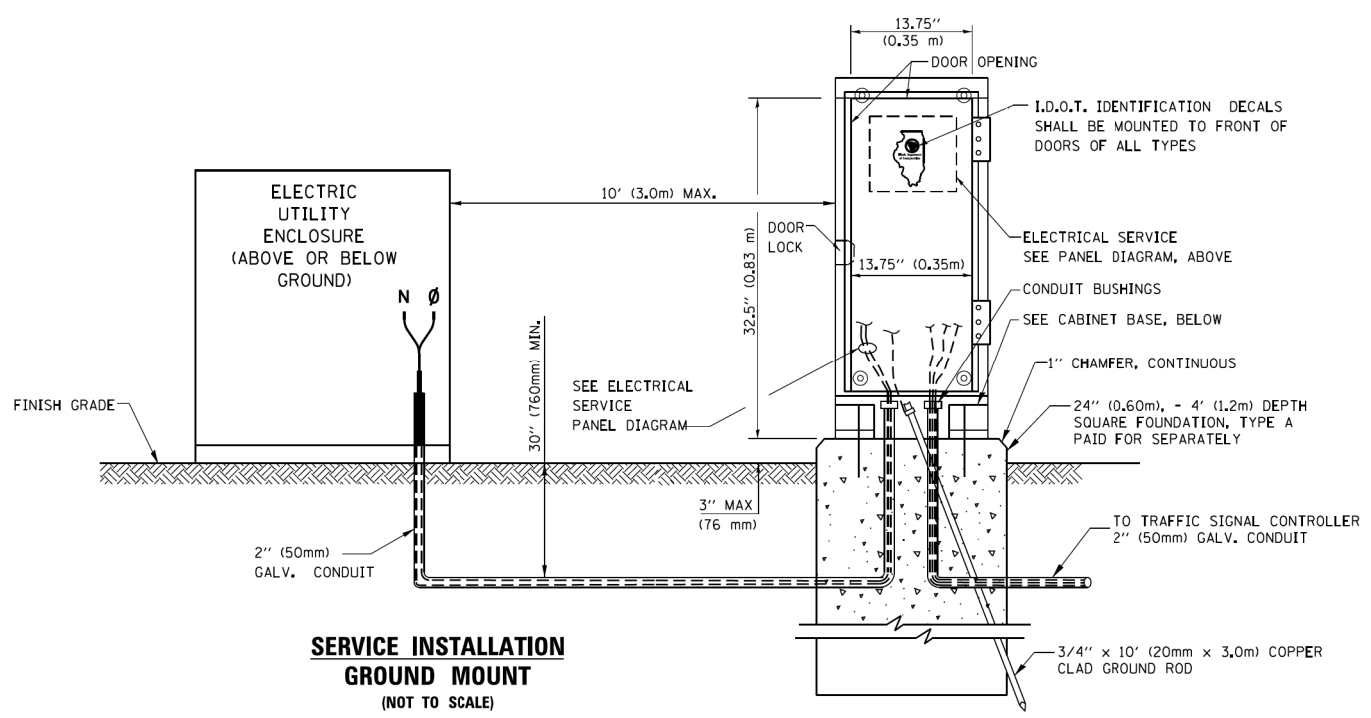
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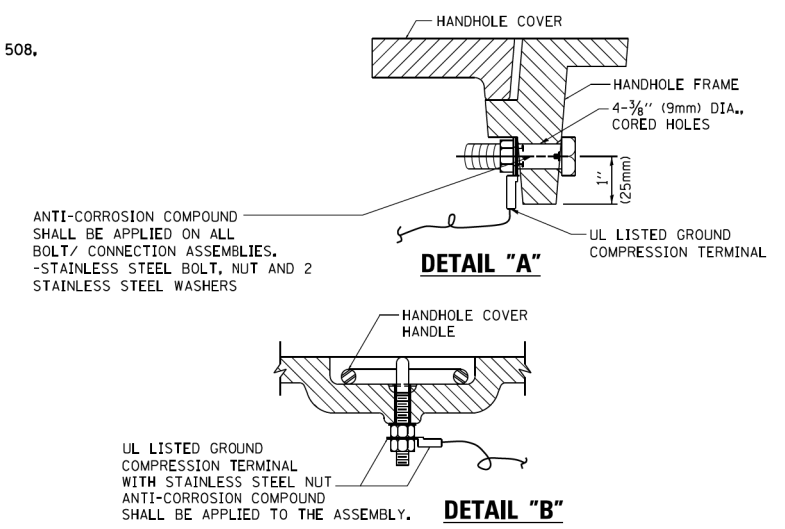
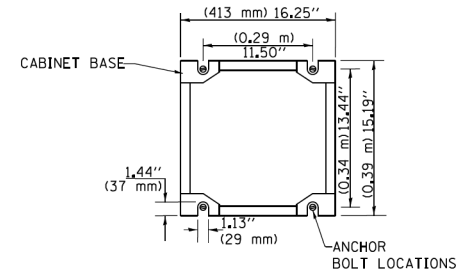


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)



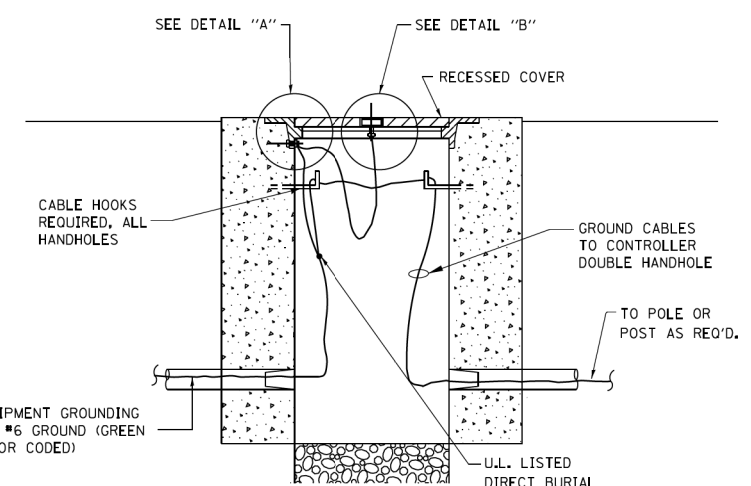
SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)

CABINET - BASE BOLT PATTERN (NOT TO SCALE)

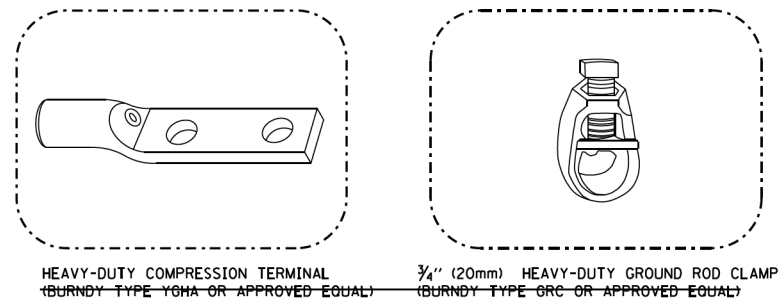


NOTES:
GROUNDING SYSTEM

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

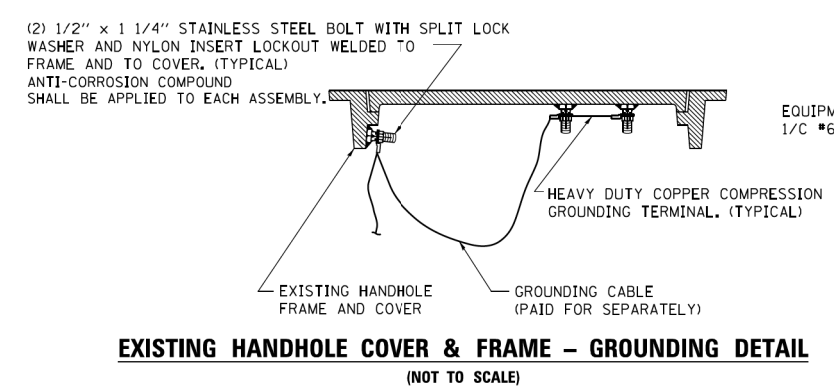


HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)

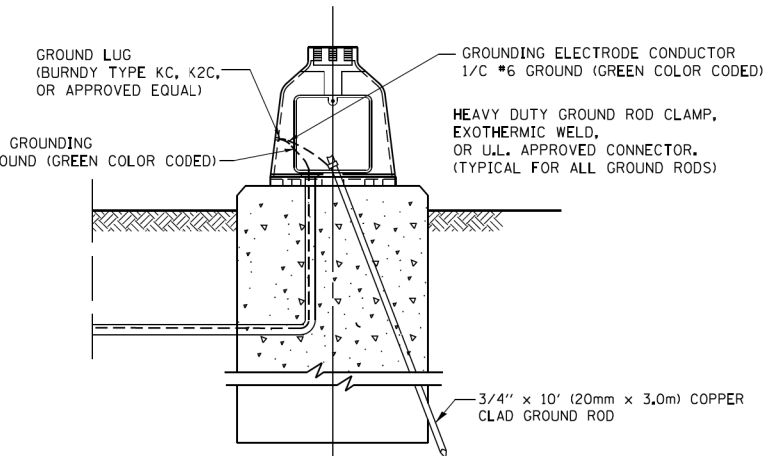


NOTES:

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



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



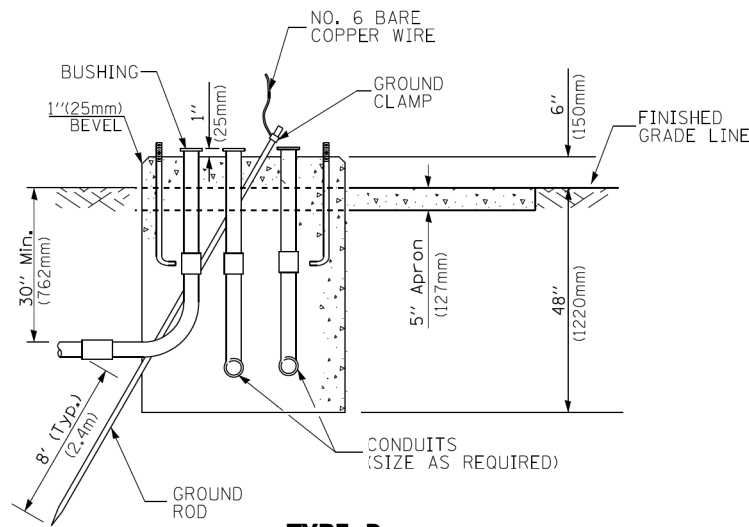
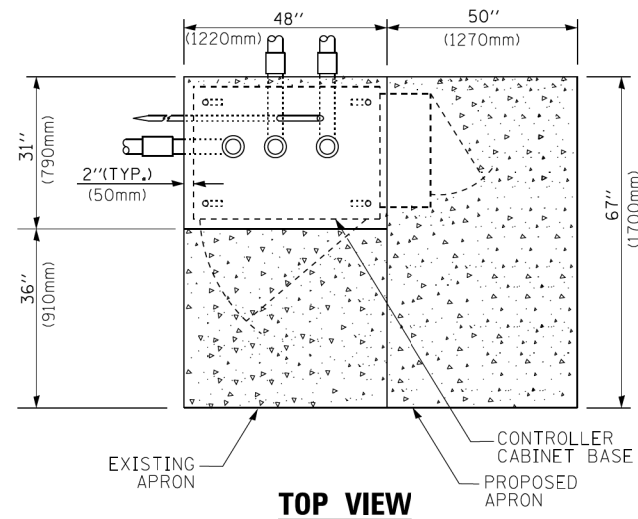
MAST ARM POLE / POST - GROUNDING DETAIL (NOT TO SCALE)

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		CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE	
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	
SCALE: NONE	SHEET NO. 4 OF 10 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	137
TS-05		CONTRACT NO. 61E67		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



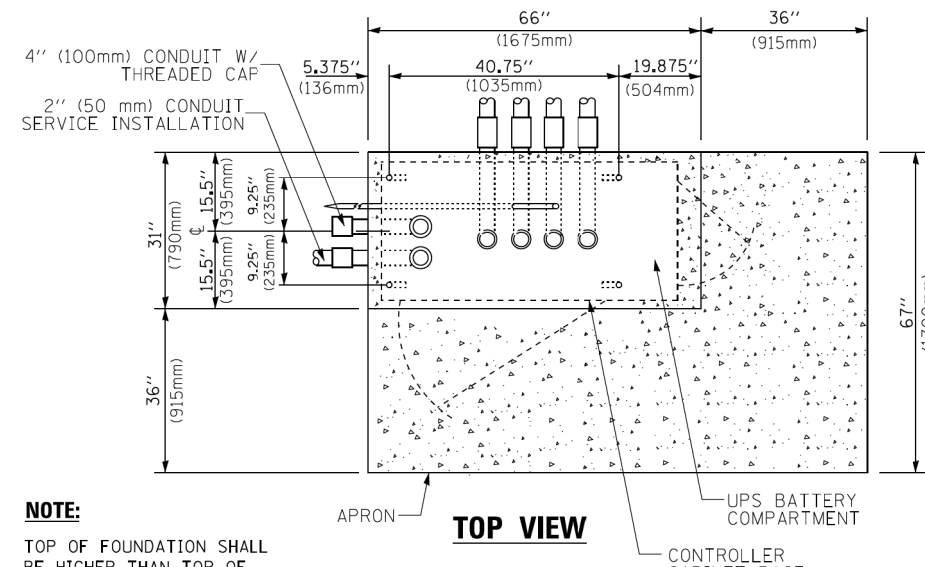
**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

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

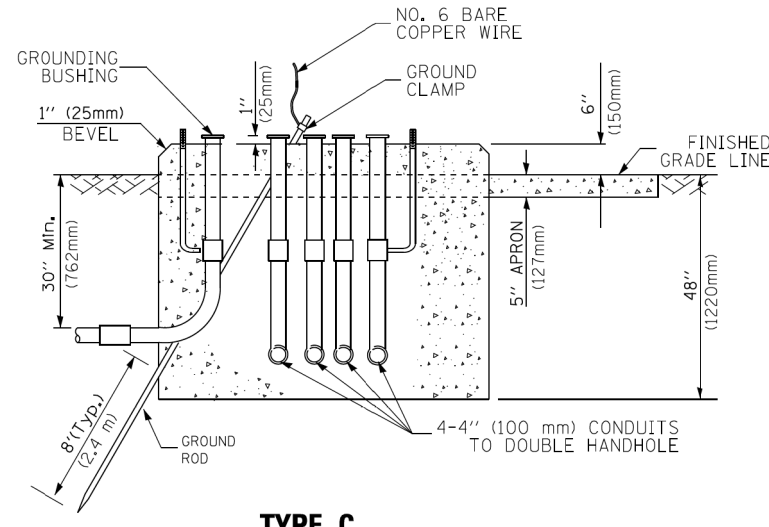
CABLE SLACK

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



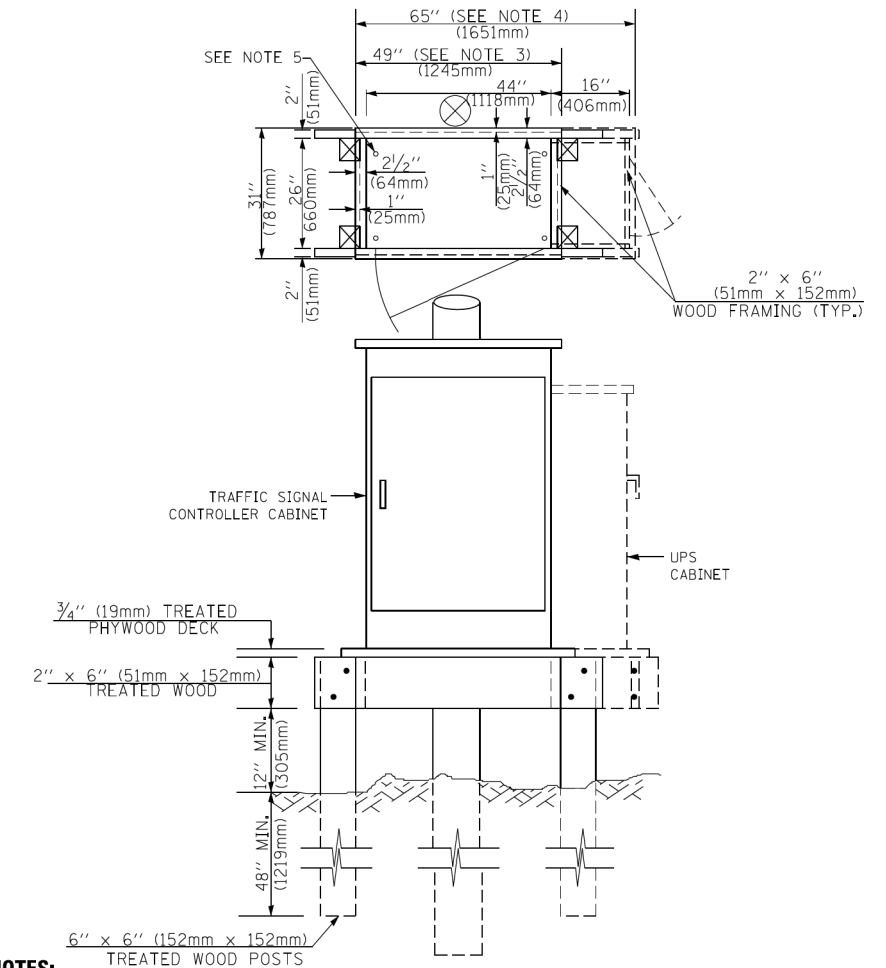
NOTE:
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



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

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



NOTES:

- 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.
- 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.
- PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- 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.
- FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

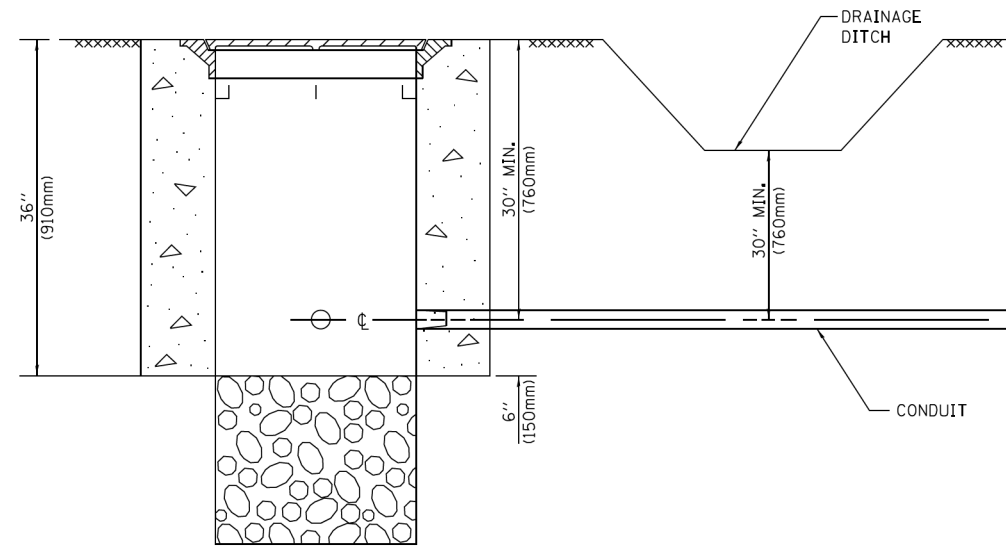
**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

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

NOTES:

- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (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.
- Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
- For mast arm assemblies with dual arms refer to state standard 878001..

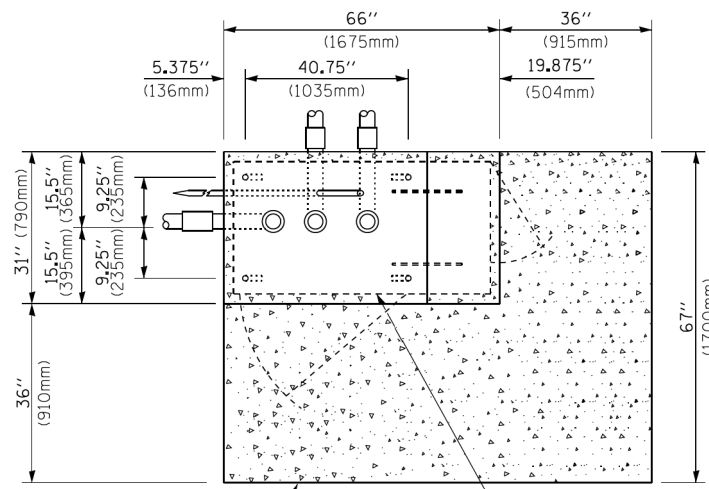
DEPTH OF MAST ARM FOUNDATIONS, TYPE E



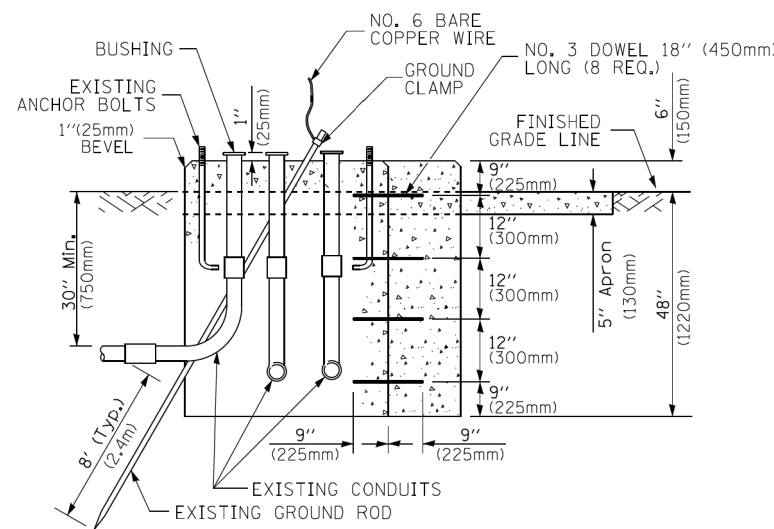
NOTES:

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)

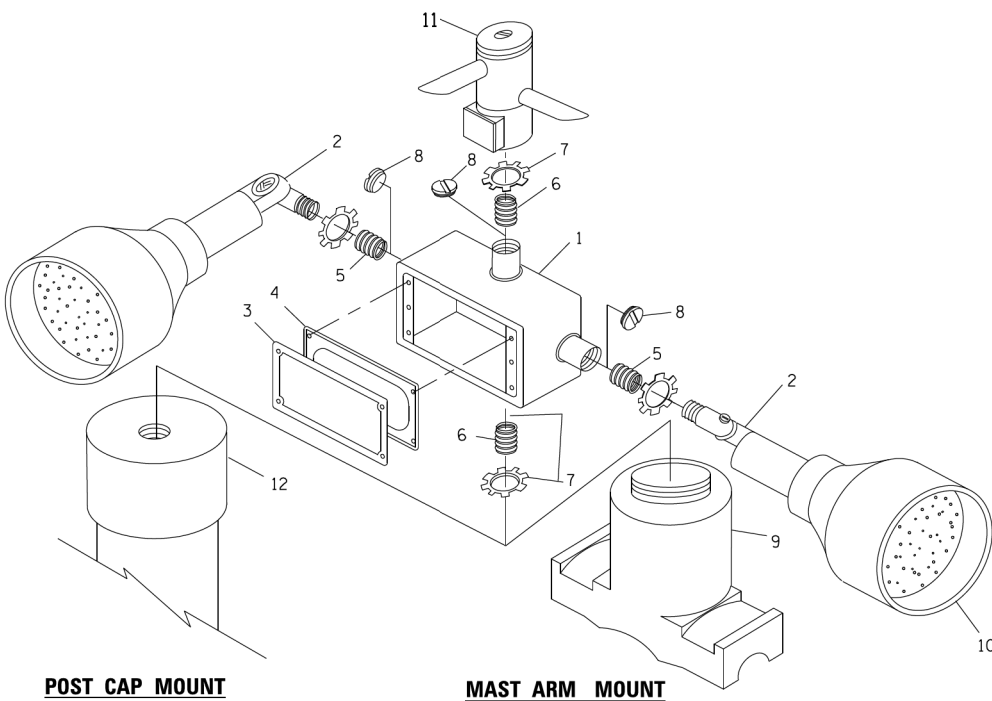


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0,000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

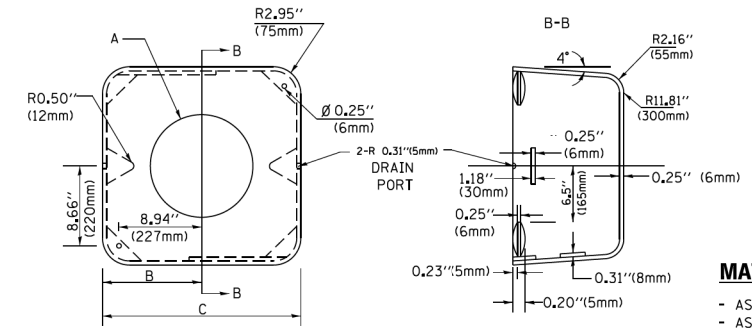
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1 OZ/GEDNEY FSX 1-50 OR EQUIVALENT
ITEM #2 MULBERRY CON O SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9 "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION 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.



POST CAP MOUNT

MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



MATERIAL:

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

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

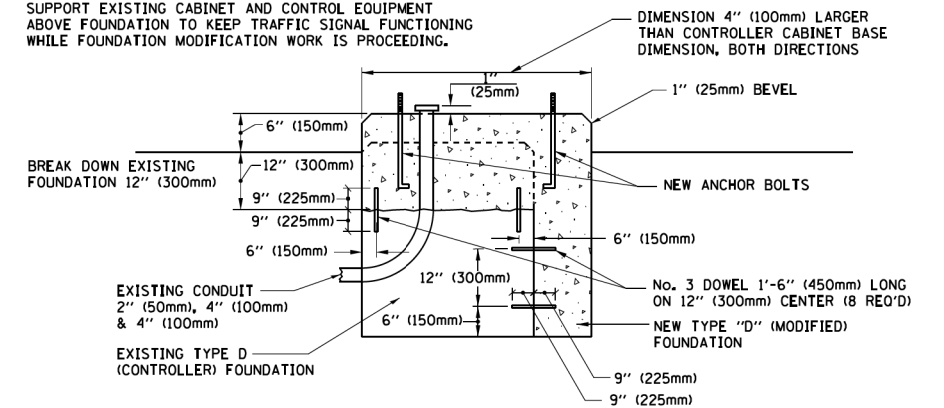
SHROUD

NOTES:

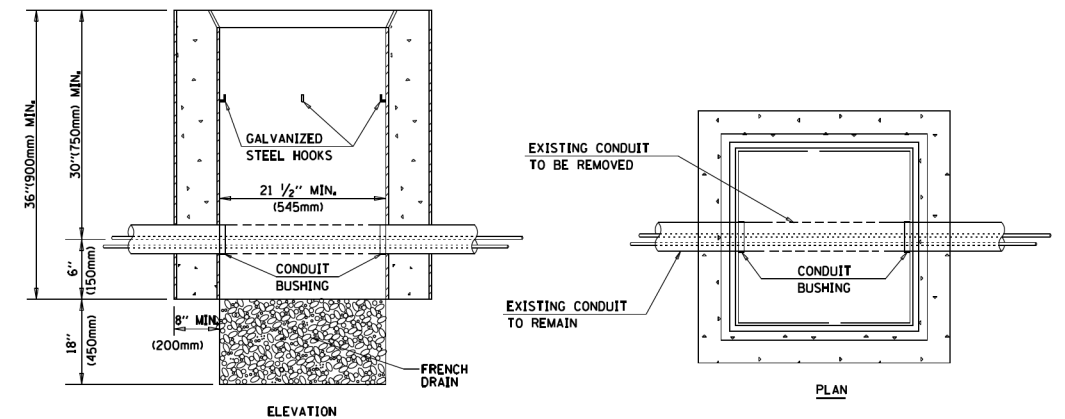
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

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



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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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

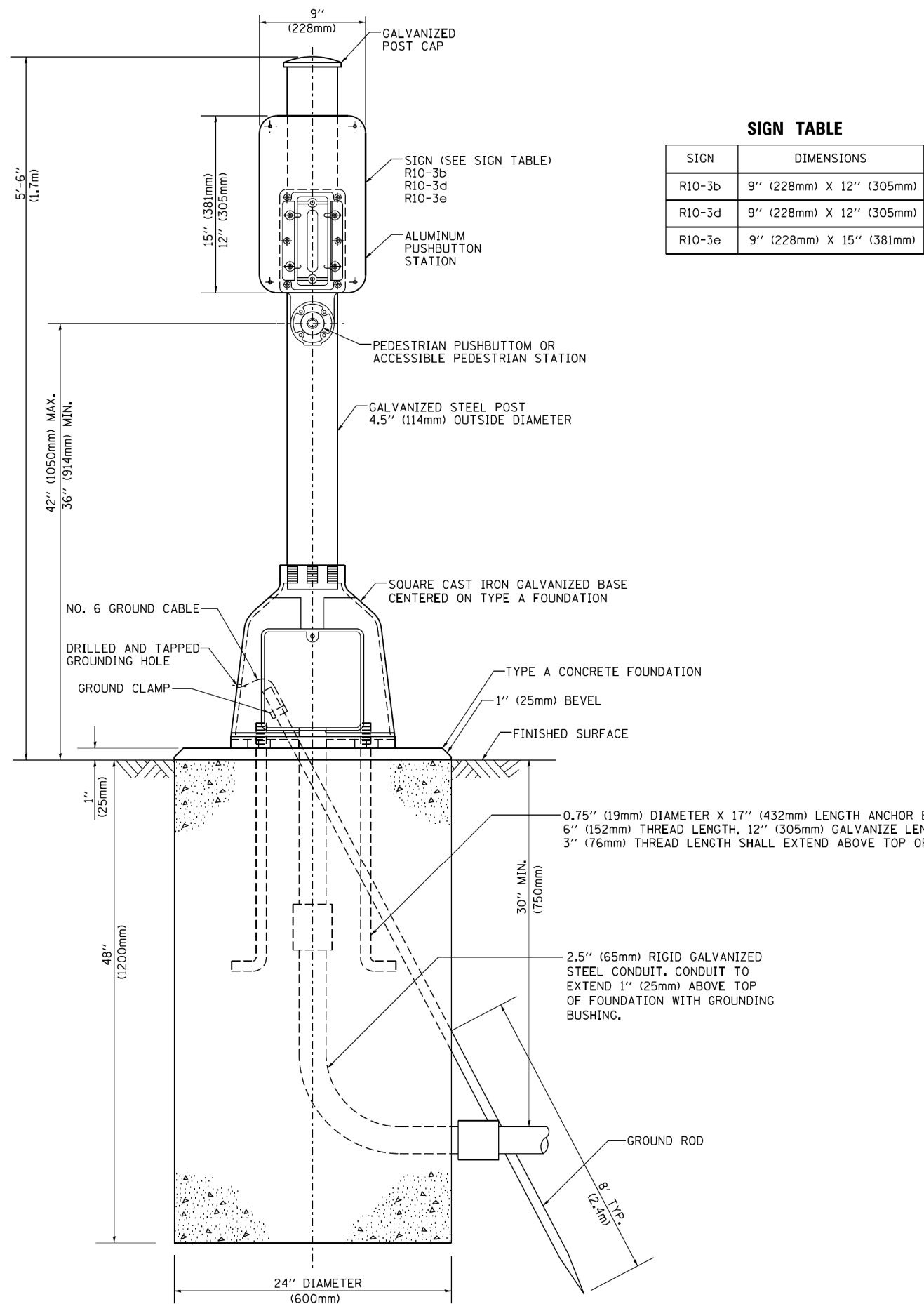
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	139
TS-05		CONTRACT NO.	61E67	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PLOT DRIVER
PENTABLE

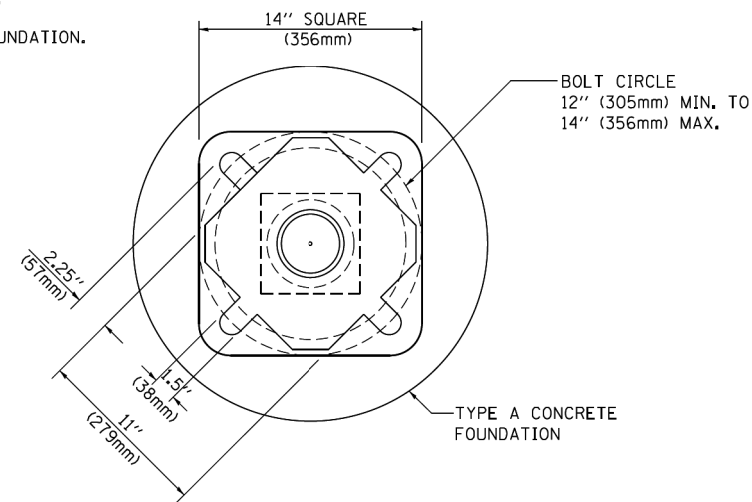
PLOT SCALE
PLOT DATE

USER NAME
DIRECTORY



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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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 7 OF 10 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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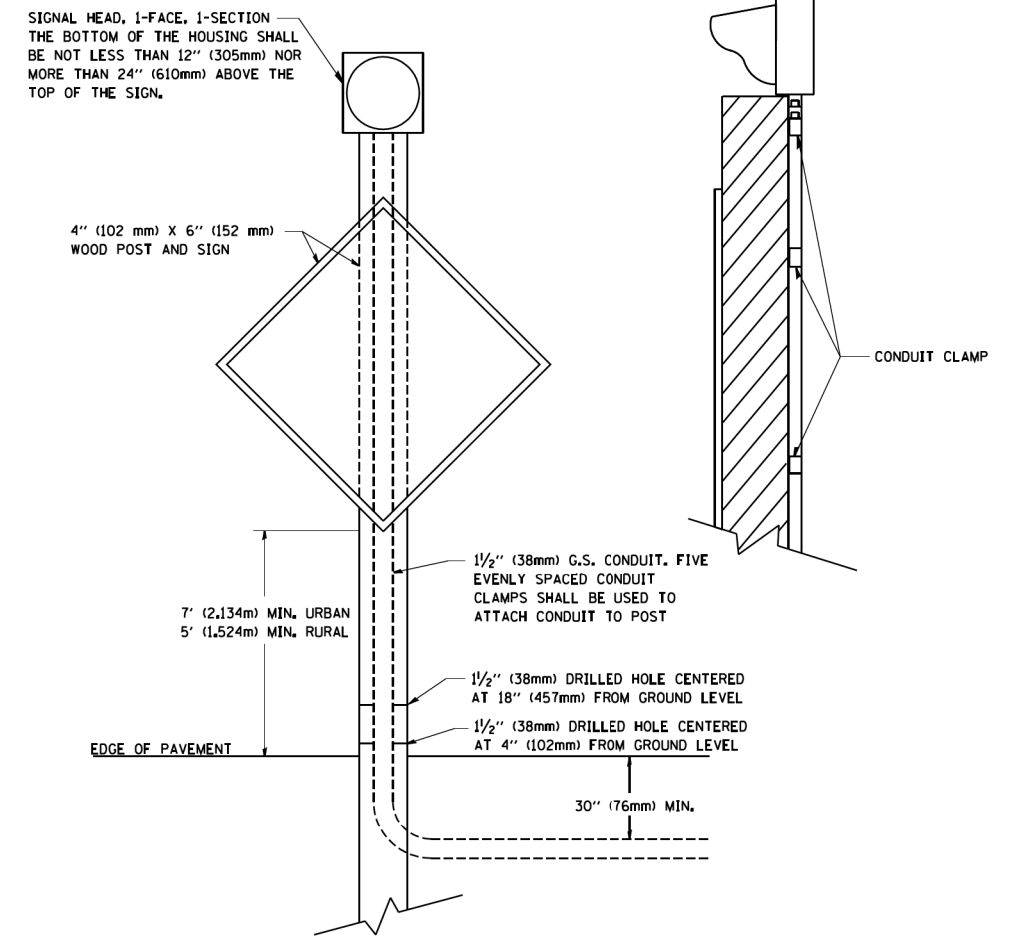
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
FLASHING BEACON INSTALLATION DETAILS**

SCALE: NONE SHEET NO. 10 OF 10 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	143
TS-04		CONTRACT NO.	61E67	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



POST MOUNTED FLASHING BEACON

GENERAL NOTES

- PRIOR TO THE INSTALLATION OF THE NEW CABLES, UNDERGROUND CONDUITS, CONCRETE ENCASED CONDUITS, UNIT DUCTS, HANDHOLES, JUNCTION BOXES, LIGHT POLE FOUNDATIONS, CONTROLLER FOUNDATIONS, AND APPURTENANCES. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF EXISTING CONDUITS, CABLES, AND UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CALL J.U.L.I.E. TO AID IN THIS TASK.
- THE CONTRACTOR SHALL VERIFY ALL OF THE DATA SHOWN ON THE CONTRACT PLANS AND REFERENCE DRAWINGS, WHICH WOULD AFFECT THEIR WORK UNDER THIS CONTRACT.
- ALL NEW CABLES, CONDUITS, HANDHOLES, JUNCTION BOXES, AND APPURTENANCES ARE ILLUSTRATED DIAGRAMMATICALLY. PROPOSED ROUTING OF THE UNDERGROUND CONDUITS, AS SHOWN IN THE PLANS, IS FOR INFORMATION ONLY. CONTRACTOR SHALL VERIFY THE ACTUAL ROUTING LOCATION IN THE FIELD WITH THE APPROVAL OF THE ENGINEER.
- ALL SPLICES SHALL BE HEAT SHRINK AND WATERPROOF AND INSTALLED INSIDE LIGHT POLE BASES OR JUNCTION BOXES. NO DIRECT BURIED SPLICES SHALL BE ALLOWED.
- LUMINAIRES MUST BE INSTALLED ON LIGHT STANDARDS WITHIN A MAXIMUM OF 48 HOURS AFTER LIGHT STANDARD IS ERECTED.
- THE ELECTRICAL MATERIAL SHALL BE NEW AND OF THE TYPE AND KINDS APPROVED BY THE FOLLOWING ORGANIZATIONS:
 - NATIONAL ELECTRICAL MANUFACTURES ASSOCIATION
 - INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
 - ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA
 - AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
 - U.S. DEPARTMENT OF TRANSPORTATION
 - UNDERWRITERS LABORATORIES
 - AMERICAN STANDARD INSTITUTE
 - INSULATED POWER CABLE ENGINEERS ASSOCIATION
- UNDERGROUND CONDUITS AND CABLE DUCTS SHALL BE POSITIONED IN THE FIELD TO AVOID CONFLICTS WITH UNDERDRAINS AND OTHER UTILITIES.
- WHERE MULTIPLE CABLE DUCTS OR UNDERGROUND CONDUITS ADJACENT TO EACH OTHER ARE INSTALLED IN A COMMON TRENCH, TRENCH AND BACKFILL SHALL BE CONTINUOUS BETWEEN EACH CABLE DUCT OR UNDERGROUND CONDUIT FOR THE LENGTH OF THE COMMON TRENCH.
- ANY UTILITY POLES NEEDED FOR NEW ELECTRIC SERVICE SHALL BE INSTALLED BY THE ELECTRIC UTILITY COMPANY. CONTRACTOR SHALL INSTALL UNDERGROUND CONDUITS, GROUNDING, DISCONNECT SWITCH, AND ANY SECONDARY CONDUCTORS TO THE UTILITY POLE. COORDINATE ALL WORK WITH THE ELECTRIC UTILITY COMPANY REFER TO COMBINATION LIGHTING CONTROLLER DETAILS.
- THE CONTRACTOR SHALL PREPARE A SCHEDULE WHEN THE PROJECT COMMENCES, WHICH ESTABLISHES THE DATE WHEN ELECTRICAL SERVICES ARE REQUIRED. THIS SCHEDULE SHALL BE FORWARDED IN WRITING TO THE ELECTRIC UTILITY COMPANY. SUBSEQUENT UPDATING TO THE SCHEDULE SHALL ALSO BE FORWARDED TO THE ELECTRIC UTILITY COMPANY AS CHANGES OCCUR A MINIMUM OF FIVE (5) DAYS BEFORE ELECTRICAL SERVICES ARE REQUIRED. THE CONTRACTOR SHALL NOTIFY THE ELECTRIC UTILITY COMPANY BY PHONE AND IN WRITING TO CONFIRM THE REQUIREMENT.
- CONTRACTOR SHALL TAKE OVER EXISTING ROADWAY LIGHTING CONTROLLER ALONG DEERPATH ROAD AT STATION 105+80 LT. COST SHALL BE PAID UNDER PAY ITEM X0326784 - MAINTAIN EXISTING LIGHTING CONTROLLER.
- RELOCATED LIGHT POLES WHEN RE-INSTALLED SHALL HAVE A SET BACK OF THREE (3) FEET MINIMUM, FROM THE FACE OF CURB TO THE CENTER OF THE LIGHT POLE FOUNDATION.
- TEMPORARY LIGHTING TO BE INSTALLED SHALL USE A 60-FOOT (CLASS 4) WOOD POLE, WITH A 15-FOOT MAST ARM PLACEMENT TO MEET A MOUNTING HEIGHT OF FIFTY (50) FEET, FROM THE BOTTOM OF THE LUMINAIRE TO THE TOP OF THE ROADWAY PAVEMENT.
- THE ELECTRIC UTILITY COMPANY FOR ELECTRIC SERVICE COORDINATION IS THE CITY OF BATAVIA.

SUMMARY OF QUANTITIES

ITEM NUMBER	SP	PAY ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
1		80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
2		81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	385
3		81028720	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1" DIA.	FOOT	440
4		81028730	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1½" DIA.	FOOT	565
5		81028810	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 6" DIA.	FOOT	400
6		81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1,700
7		81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	1,800
8		81800330	AERIAL CABLE, 2-1/C NO. 6 WITH MESSENGER WIRE	FOOT	285
9		83057355	LIGHT POLE, WOOD, 60 FOOT, CLASS 4, WITH 15FT MAST ARM	EACH	2
10		84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	2
11	*	X1400095	LUMINAIRE, LED, HORIZONTAL MOUNT, HIGH WATTAGE	EACH	4
12	*	X8210040	TEMPORARY LUMINAIRE, HIGH PRESSURE SODIUM VAPOR, HORIZONTAL MOUNT, 400W	EACH	2
13	*	X8250091	COMBINATION LIGHTING CONTROLLER	EACH	1
14	*	Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	6

* INDICATES SPECIAL PROVISION



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

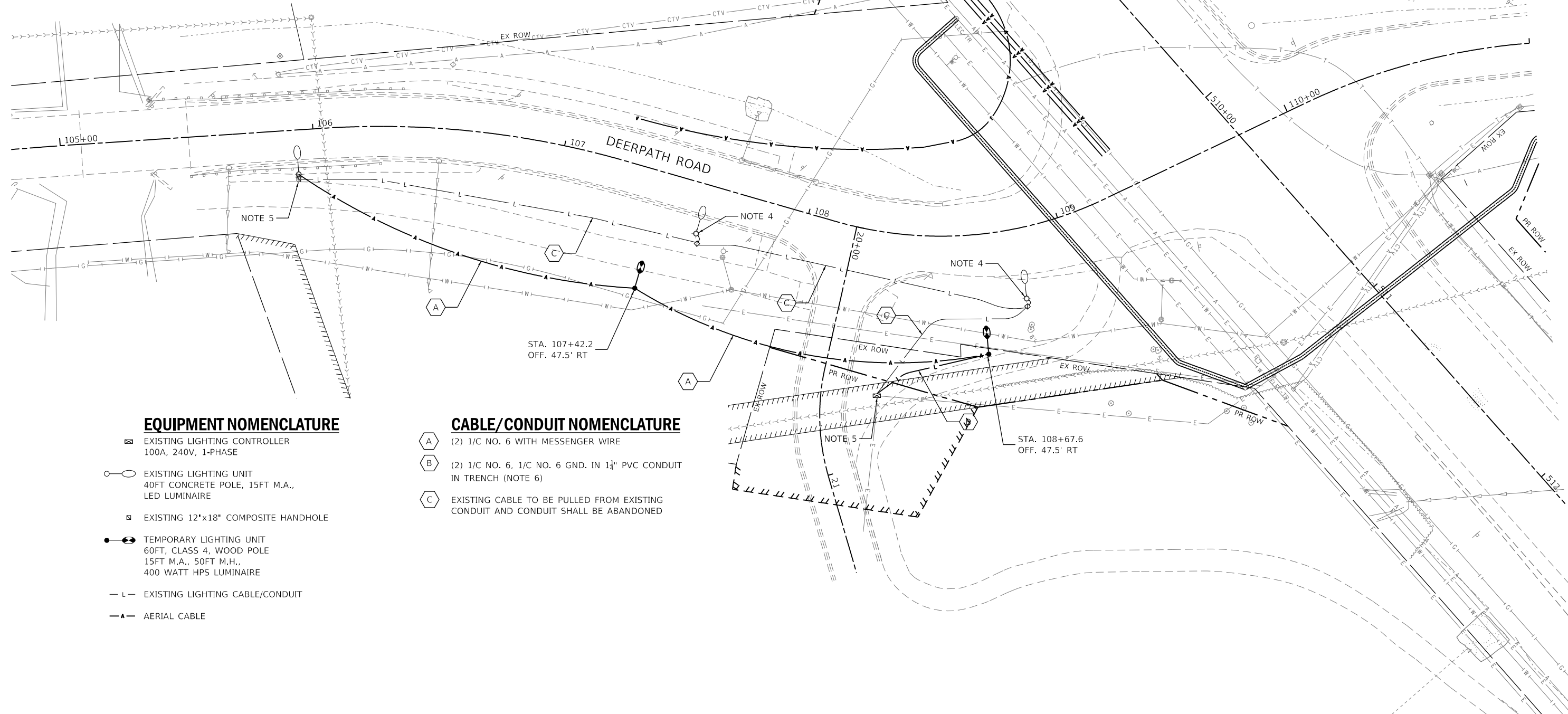
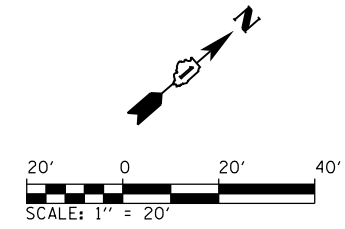
ROADWAY LIGHTING PLAN
GENERAL NOTES AND SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

EIA/P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	144
EL-1	CONTRACT NO.		61E67	
ILLINOIS		FED. AID PROJECT		

NOTES

- REFER TO SHEET EL-1 FOR ROADWAY LIGHTING GENERAL NOTES.
- REFER TO SHEET EL-4 FOR CONCRET LIGHT POLE INSTALLATION DETAIL.
- TEMPORARY LIGHTING SHALL BE INSTALL AND OPERATIONAL BEFORE ANY EXISTING LIGHT POLES ARE REMOVED.
- EXISTING LIGHT POLE TO BE RELOCATED. CONTRACTOR SHALL RELOCATE EXISTING POLE, LUMINAIRE AND ASSOCIATED HANDHOLE. COST SHALL BE INCLUDED IN THE COST OF PAY ITEM *84400105 - RELOCATE EXISTING LIGHTING UNIT*. REFER TO ROADWAY LIGHTING PLAN FOR NEW LOCATION.
- TEMPORARY LIGHTING UNITS SHALL BE ENERGIZED FROM EXISTING TRANSFORMER. CONNECT TO EXISTING LIGHT POLE AT STATION 105+95 RT, FROM THE TOP OF THE POLE AND INSTALL AN AERIAL CABLE TO TEMPORARY LIGHTING UNIT.
- CABLE AND CONDUIT SHALL BE TEMPORARY AND REMOVED DURING THE REMOVAL OF THE TEMPORARY LIGHTING UNITS. CONDUIT SHALL BE ATTACHED TO TEMPORARY WOOD POLE WITH AT LEAST A 10FT RISER. CABLE AND CONDUIT INSTALLATION AND REMOVAL SHALL BE INCLUDED IN THE COST OF THE CABLE AND CONDUIT.



EQUIPMENT NOMENCLATURE

- ◻ EXISTING LIGHTING CONTROLLER
100A, 240V, 1-PHASE
- EXISTING LIGHTING UNIT
40FT CONCRETE POLE, 15FT M.A.,
LED LUMINAIRE
- ◻ EXISTING 12"x18" COMPOSITE HANDHOLE
- EXISTING LIGHTING UNIT
60FT, CLASS 4, WOOD POLE
15FT M.A., 50FT M.H.,
400 WATT HPS LUMINAIRE
- L — EXISTING LIGHTING CABLE/CONDUIT
- A — AERIAL CABLE

CABLE/CONDUIT NOMENCLATURE

- Ⓐ (2) 1/C NO. 6 WITH MESSENGER WIRE
- Ⓑ (2) 1/C NO. 6, 1/C NO. 6 GND. IN 1 1/2" PVC CONDUIT
IN TRENCH (NOTE 6)
- Ⓒ EXISTING CABLE TO BE PULLED FROM EXISTING
CONDUIT AND CONDUIT SHALL BE ABANDONED



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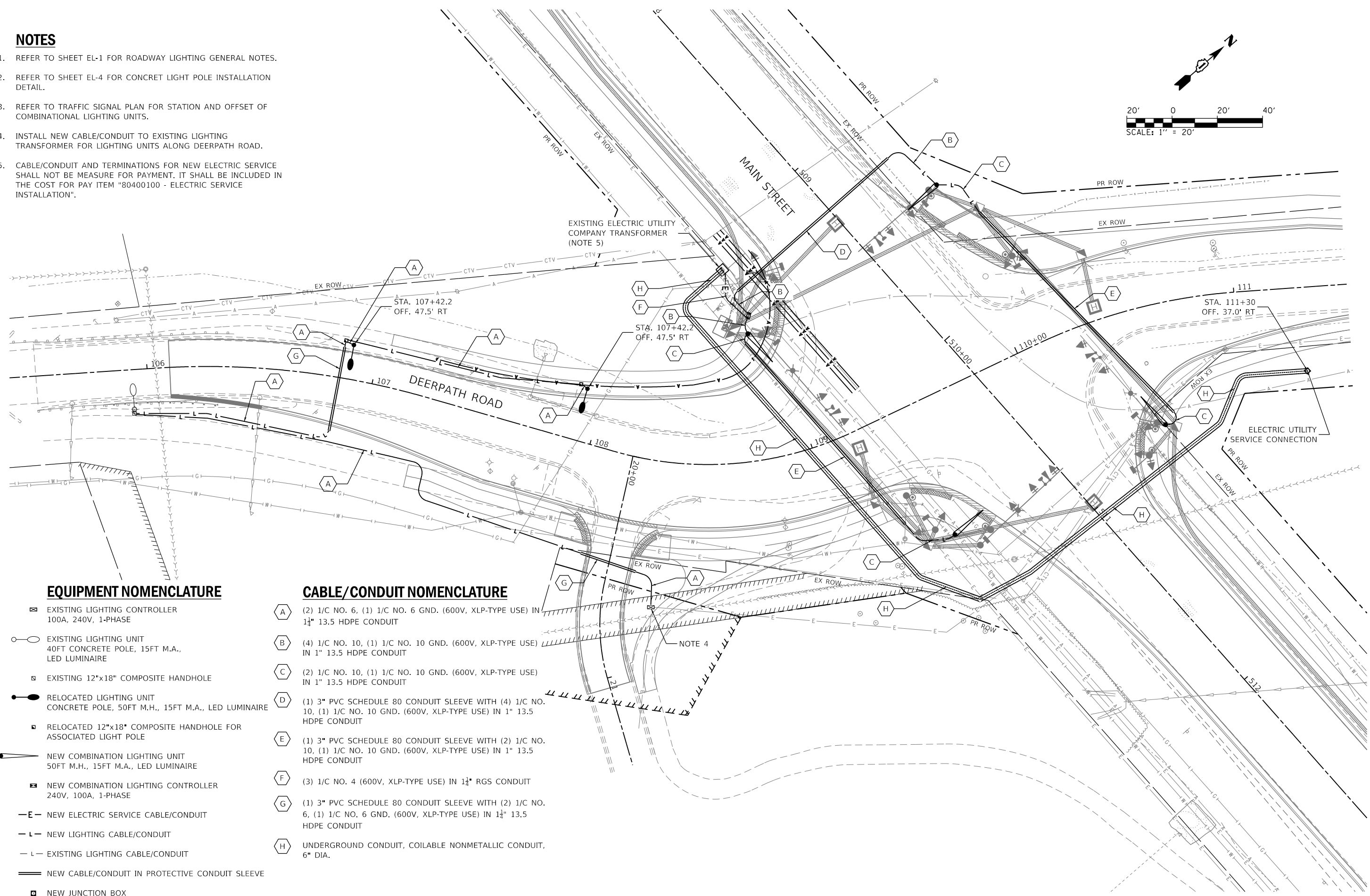
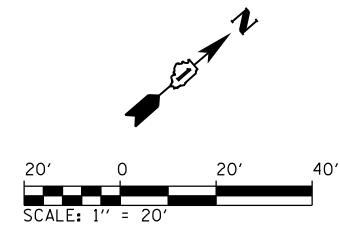
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY LIGHTING PLAN
TEMPORARY LIGHTING DEERPETH RD
SCALE: 1"=20'
SHEET 2 OF 3 SHEETS
STA. 105+00 TO STA. 111+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	145
EL-2	CONTRACT NO. 61E67			
ILLINOIS		FED. AID PROJECT		

NOTES

1. REFER TO SHEET EL-1 FOR ROADWAY LIGHTING GENERAL NOTES.
2. REFER TO SHEET EL-4 FOR CONCRET LIGHT POLE INSTALLATION DETAIL.
3. REFER TO TRAFFIC SIGNAL PLAN FOR STATION AND OFFSET OF COMBINATIONAL LIGHTING UNITS.
4. INSTALL NEW CABLE/CONDUIT TO EXISTING LIGHTING TRANSFORMER FOR LIGHTING UNITS ALONG DEERPATH ROAD.
5. CABLE/CONDUIT AND TERMINATIONS FOR NEW ELECTRIC SERVICE SHALL NOT BE MEASURE FOR PAYMENT. IT SHALL BE INCLUDED IN THE COST FOR PAY ITEM "80400100 - ELECTRIC SERVICE INSTALLATION".

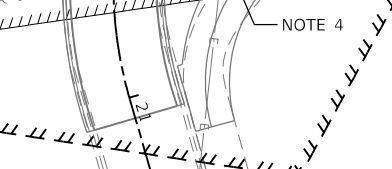


EQUIPMENT NOMENCLATURE

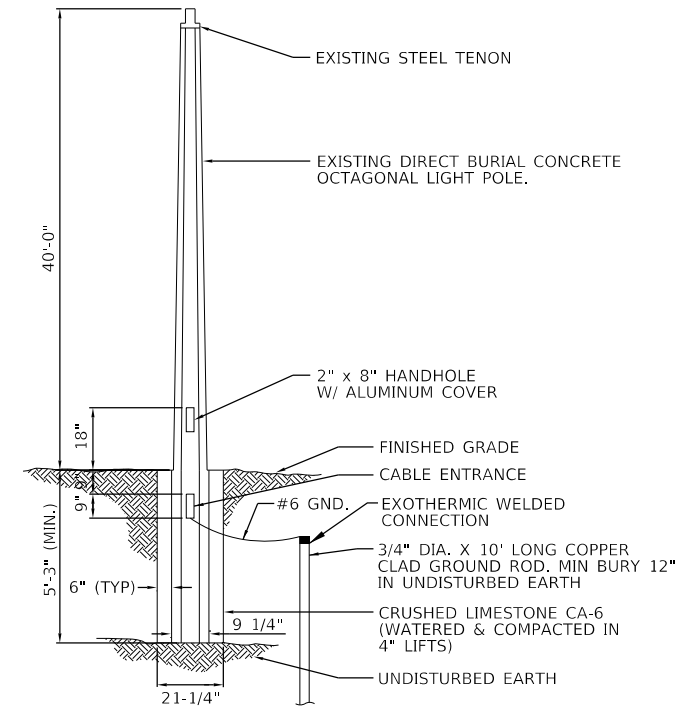
- ☒ EXISTING LIGHTING CONTROLLER
100A, 240V, 1-PHASE
- EXISTING LIGHTING UNIT
40FT CONCRETE POLE, 15FT M.A., LED LUMINAIRE
- ☒ EXISTING 12"x18" COMPOSITE HANDHOLE
- RELOCATED LIGHTING UNIT
CONCRETE POLE, 50FT M.H., 15FT M.A., LED LUMINAIRE
- ☒ RELOCATED 12"x18" COMPOSITE HANDHOLE FOR ASSOCIATED LIGHT POLE
- NEW COMBINATION LIGHTING UNIT
50FT M.H., 15FT M.A., LED LUMINAIRE
- ☒ NEW COMBINATION LIGHTING CONTROLLER
240V, 100A, 1-PHASE
- E- NEW ELECTRIC SERVICE CABLE/CONDUIT
- L- NEW LIGHTING CABLE/CONDUIT
- L- EXISTING LIGHTING CABLE/CONDUIT
- ==== NEW CABLE/CONDUIT IN PROTECTIVE CONDUIT SLEEVE
- ☐ NEW JUNCTION BOX

CABLE/CONDUIT NOMENCLATURE

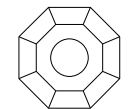
- A (2) 1/2 NO. 6, (1) 1/2 NO. 6 GND. (600V, XLP-TYPE USE) IN 1 1/2" 13.5 HDPE CONDUIT
- B (4) 1/2 NO. 10, (1) 1/2 NO. 10 GND. (600V, XLP-TYPE USE) IN 1" 13.5 HDPE CONDUIT
- C (2) 1/2 NO. 10, (1) 1/2 NO. 10 GND. (600V, XLP-TYPE USE) IN 1" 13.5 HDPE CONDUIT
- D (1) 3" PVC SCHEDULE 80 CONDUIT SLEEVE WITH (4) 1/2 NO. 10, (1) 1/2 NO. 10 GND. (600V, XLP-TYPE USE) IN 1" 13.5 HDPE CONDUIT
- E (1) 3" PVC SCHEDULE 80 CONDUIT SLEEVE WITH (2) 1/2 NO. 10, (1) 1/2 NO. 10 GND. (600V, XLP-TYPE USE) IN 1" 13.5 HDPE CONDUIT
- F (3) 1/2 NO. 4 (600V, XLP-TYPE USE) IN 1 1/2" RGS CONDUIT
- G (1) 3" PVC SCHEDULE 80 CONDUIT SLEEVE WITH (2) 1/2 NO. 6, (1) 1/2 NO. 6 GND. (600V, XLP-TYPE USE) IN 1 1/2" 13.5 HDPE CONDUIT
- H UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 6" DIA.



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ELEVATION VIEW



PLAN VIEW

**RELOCATED DIRECT BURIED
CONCRETE LIGHT POLE DETAIL**

NOT TO SCALE



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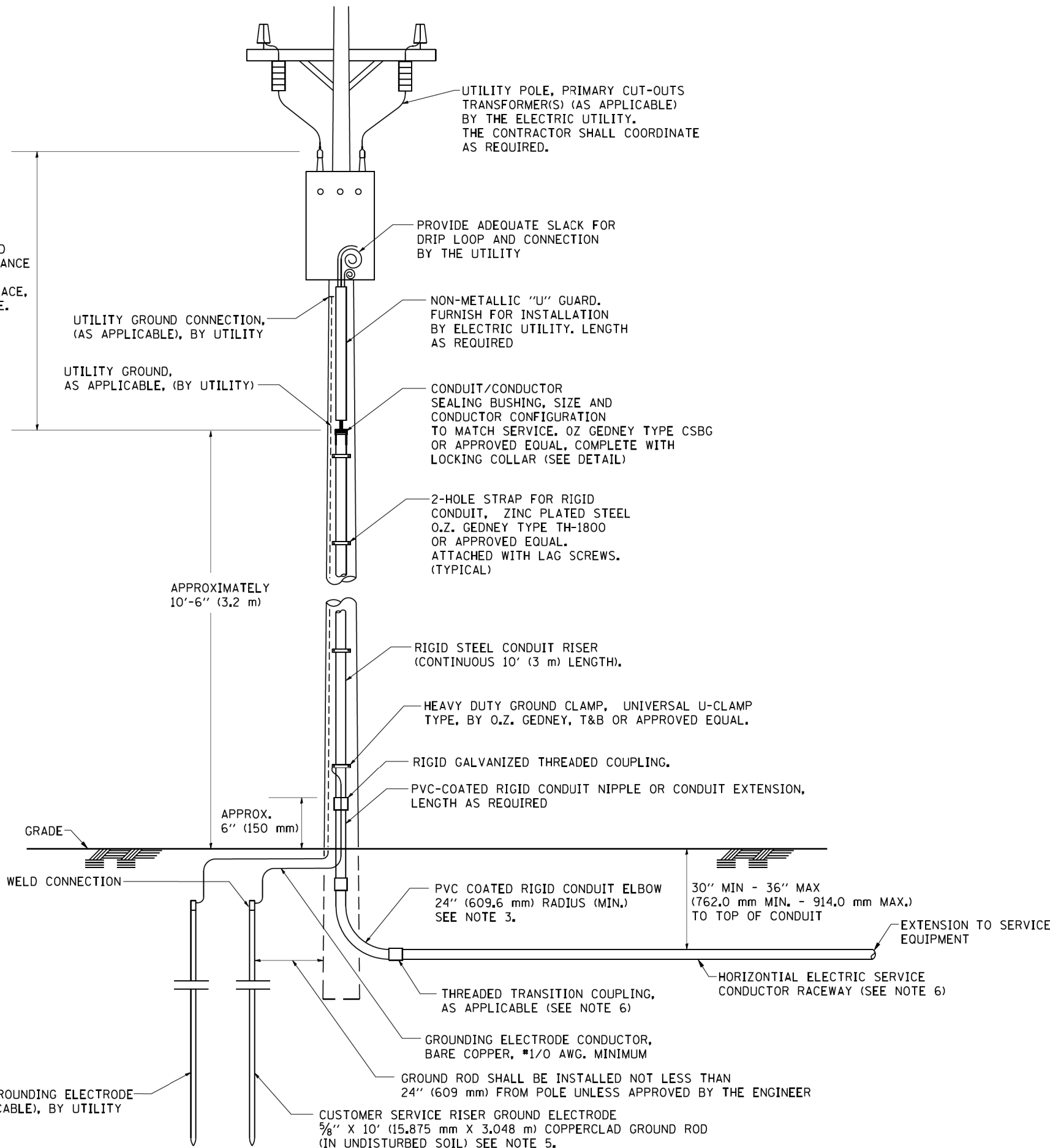
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY LIGHTING DETAILS

SCALE: SHEET 1 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	147
EL-4		CONTRACT NO. 61E67		
		ILLINOIS	FED. AID PROJECT	

ASCERTAIN AND ASSURE CLEARANCE FROM UTILITY SECONDARY SPACE, AS APPLICABLE.

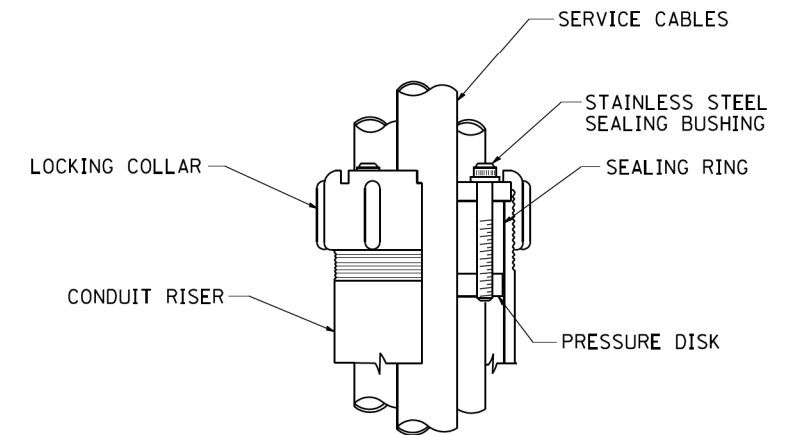


APPLICATION

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

NOTES

- SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
- UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
- CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
- PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
- THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
- PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.



SEALING BUSHING DETAIL

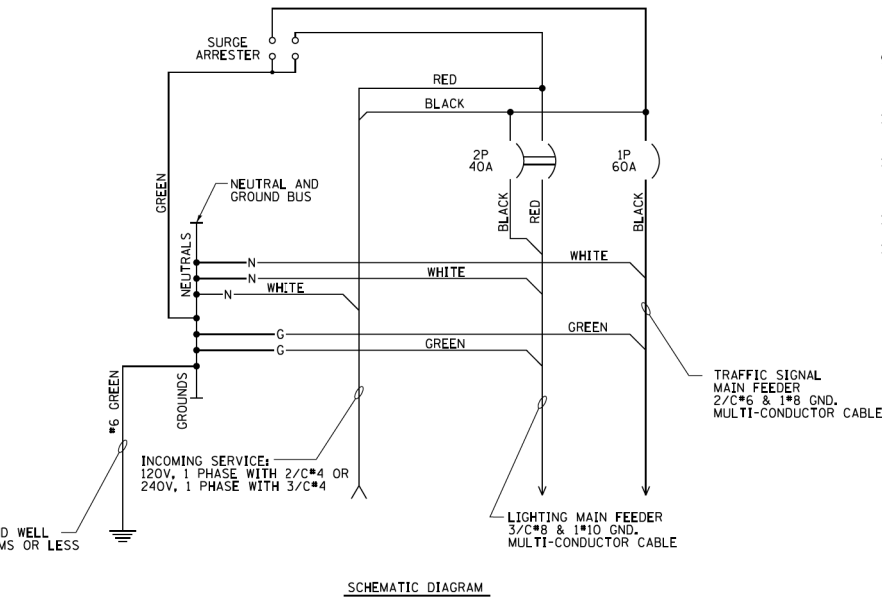
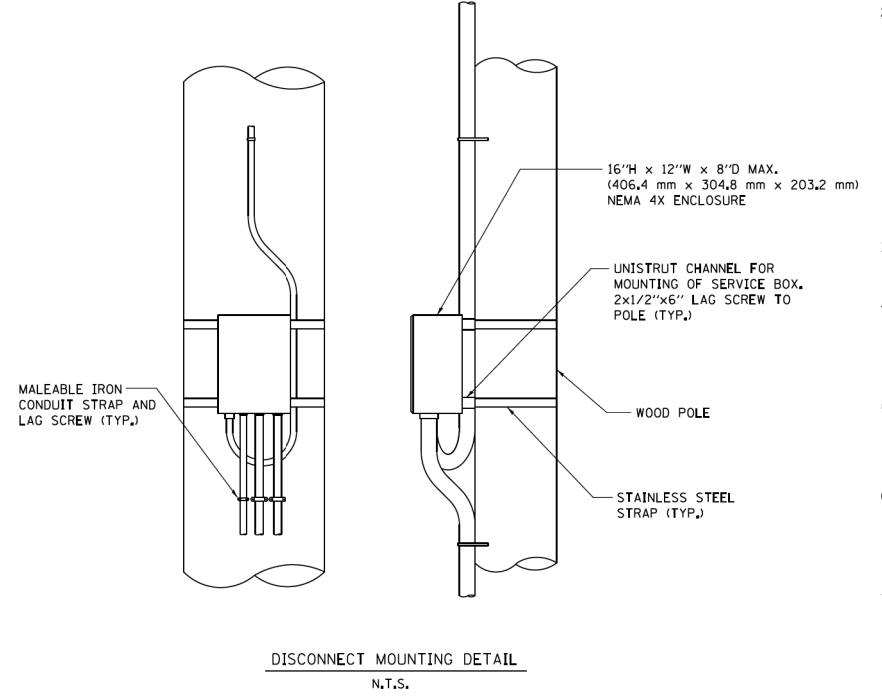
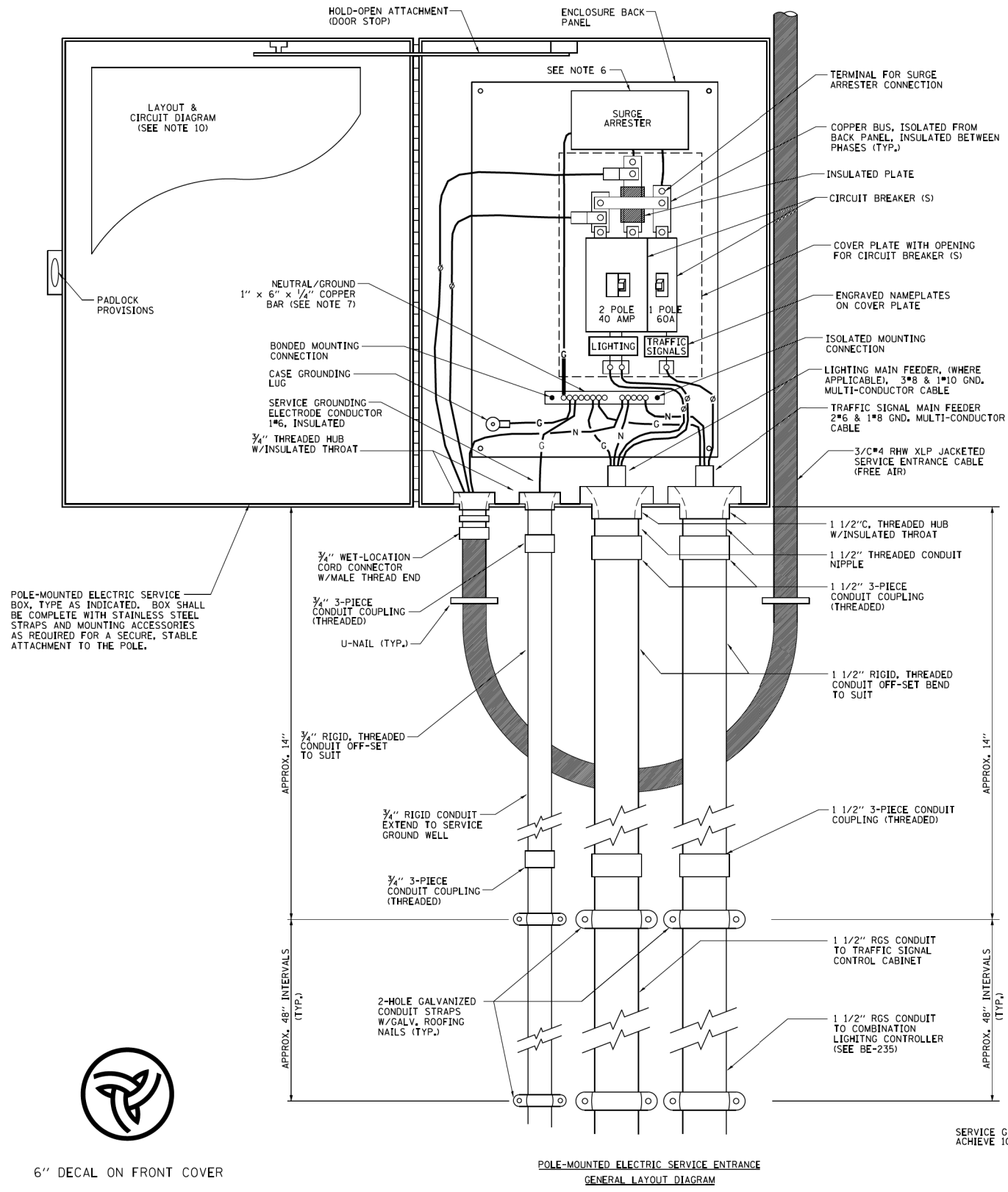
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ELECTRIC SERVICE INSTALLATION
AERIAL, REMOTE DISCONNECT**

SCALE: NONE SHEET NO. 2 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	148
BE-220		CONTRACT NO.	61E67	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- NOTES:**
- ELECTRIC SERVICE SHALL BE OF THE VOLTAGE INDICATED OR DESIGNATED BY THE ENGINEER, AND SERVICE DROP CABLE SHALL BE COMPATIBLE WITH THE SERVICE ACCORDINGLY. SOME INSTALLATIONS MAY CALL FOR SERVICE ENTRANCE EQUIPMENT SUITABLE FOR 3-WIRE SERVICE EVEN THOUGH INITIALLY WIRED FOR 2-WIRE SERVICE.
 - THE POLE-MOUNTED ELECTRICAL SERVICE BOX DETAIL DEPICTS THE BASIC CONSTRUCTION OF THE EQUIPMENT. SLIGHT MODIFICATIONS APPLY FOR DIFFERING SERVICES AND APPLICATIONS AS FOLLOWS:
 - TYPE A FULLY EQUIPPED FOR 240/120V, 3W SERVICE, COMPLETE WITH LIGHTING MAIN BREAKER
 - TYPE A1 FULLY EQUIPPED FOR 240/120V, 3W SERVICE, BLANK COVER IN LIEU OF LIGHTING MAIN BREAKER
 - TYPE B EQUIPPED FOR 120V, SERVICE, COMPLETE WITH 1P, 60A, TRAFFIC SIGNALS MAIN BREAKER
 - TYPE B1 EQUIPPED FOR 120V, SERVICE, COMPLETE WITH 1P, 40A, TRAFFIC SURVEILLANCE MAIN BREAKER
 - THE ELECTRICAL SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LISTED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT.
 - THE ELECTRICAL SERVICE EQUIPMENT ENCLOSURE SHALL BE NEMA 4X STAINLESS STEEL, NOMINALLY 12"W X 16"H X 8"D, WITH A PIANO-HINGED DOOR, STEEL BACK PANEL, FAST-ACTING STAINLESS STEEL ENCLOSURE CLAMPS, PADLOCK PROVISIONS AND DOOR STOP, HOFFMAN CATALOG NO. A-16H120BSS6LP/A-16 P12/A-DSTOPK/C-PMK12, OR APPROVED EQUAL.
 - CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPERES AT 240 VOLTS. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/TAG-OUT REQUIREMENTS. HANDLES SHALL BE TRIP FREE.
 - THE SURGE PROTECTOR SHALL BE SUITABLE FOR 240/120 VOLT SINGLE PHASE 60HZ AC ELECTRICAL SERVICE, WITH A SURGE ENERGY CAPABILITY OF 2160 JOULES OR BETTER AT 8/20 MICRO-SECONDS, RATED 40 TO 60 DEGREES C, WITH LED OPERATING INDICATORS, AND SHALL BE UL LISTED PER UL 1449, CUTLER-HAMMER CMV230L065XST OR APPROVED EQUAL.
 - BUS BARS, CONNECTORS, AND LUGS SHALL BE COPPER, INSULATED AND ISOLATED, AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO CONNECTIONS, OR THE ASSEMBLY SHALL BE A MANUFACTURED SPECIALTY PANELBOARD, CUTLER-HAMMER PRL2A OR APPROVED EQUAL.
 - THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS SHALL BE PAINTED GREEN. THE HEADS OF NEUTRAL SCREWS SHALL BE FAINTED WHITE. THE SERVICE NEUTRAL AND SERVICE GROUNDING ELECTRODE CONDUCTOR SHALL BE TERMINATED ADJACENT TO EACH OTHER AT THE DIVIDE BETWEEN THE SECTIONS AND WIRING SHALL BE TERMINATED ONLY UPON THE APPROPRIATE SECTION.
 - THE WIRING TERMINALS, INCLUDING THE GROUND/NEUTRAL BAR SHALL BE ARRANGED TO PROVIDE ADEQUATE ROOM FOR PERFORMING FIELD TERMINATIONS.
 - A PLASTIC LAMINATED LAYOUT AND CIRCUIT DIAGRAM SHALL BE MECHANICALLY SECURED TO THE INTERIOR SIDE OF THE ENCLOSURE DOOR.
 - A 2-COLOR ENGRAVED PLASTIC NAMEPLATE, ATTACHED WITH SCREWS, AND ENGRAVED AS INDICATED, SHALL BE PROVIDED FOR EACH MAIN BREAKER.
 - LUGS AND CONNECTORS SHALL BE RATED FOR 75°C CONDUCTOR.
 - THE EXACT MOUNTING HEIGHT OF THE BOX SHALL BE FIELD DETERMINED TO AVOID OBSTRUCTIONS AND PUBLIC ACCESS. TYPICAL HEIGHT SHALL BE APPROXIMATELY 10 FEET ABOVE GRADE.

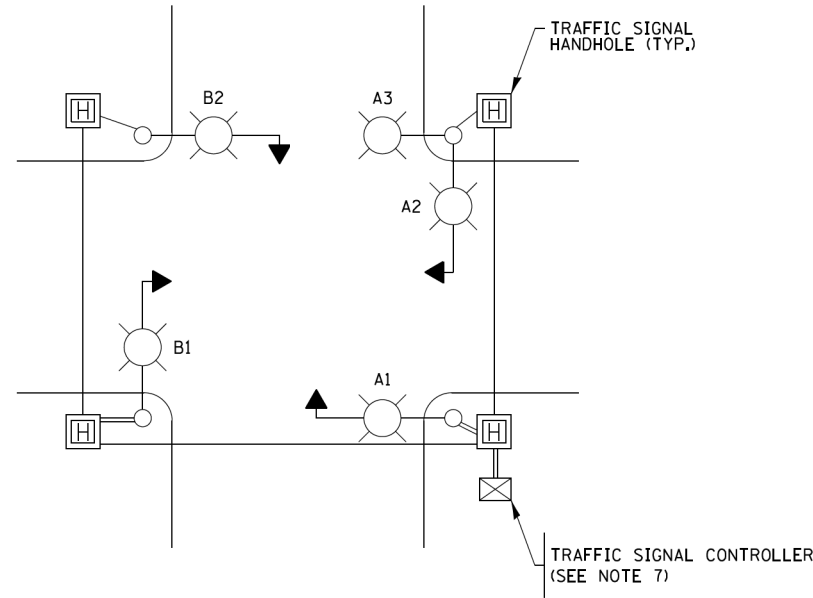
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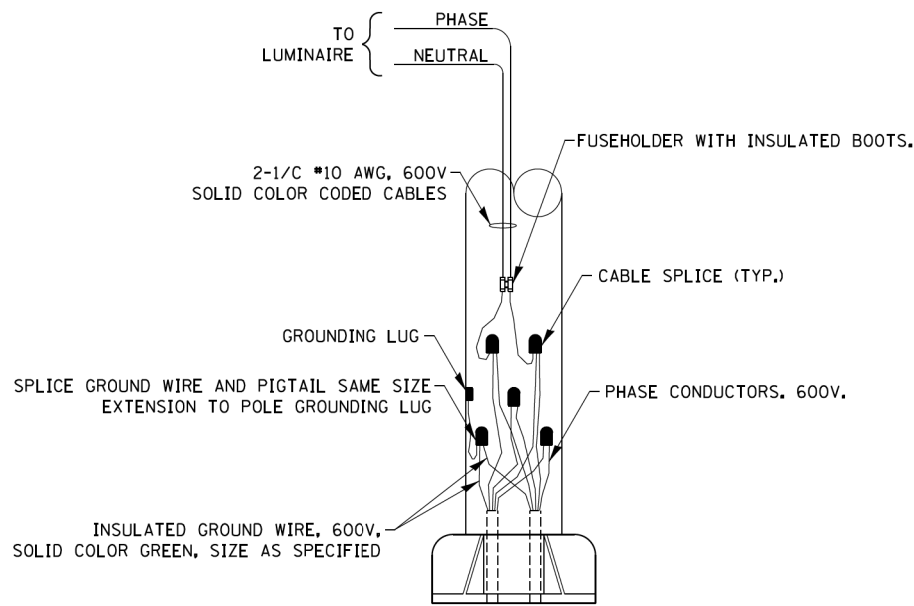
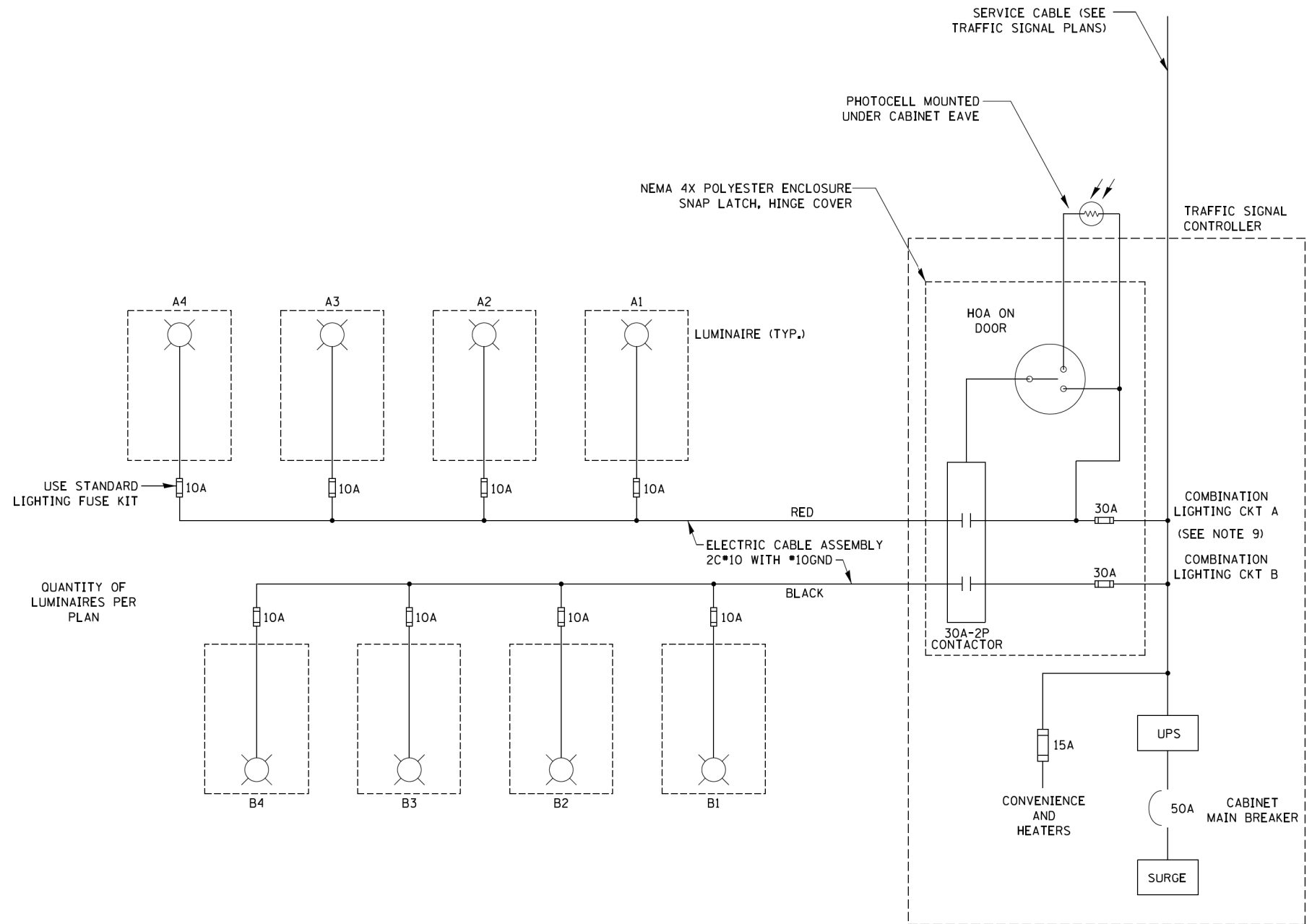
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

COMBINATION LIGHTING & TRAFFIC POLE MOUNTED ELECTRICAL SERVICE BOX DETAIL	
SCALE: NONE	SHEET NO. 3 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	149
BE-230		CONTRACT NO.	61E67	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TYPICAL LIGHTING CIRCUIT
(NOT TO SCALE)



COMBINATION POLE WIRING DETAIL
(NOT TO SCALE)

NOTES:

- 4 LUMINAIRES PER CIRCUIT, MAXIMUM.
- MULTI-CONDUCTOR CABLE ASSEMBLY FOR LIGHTING CIRCUITS.
- ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM.
- ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY.
- ALL CONTROLLERS TO HAVE TWO FUSED LIGHTING BRANCH CIRCUITS.
- ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED. (UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED).
- RECORD DRAWING SHALL INCLUDE:
 - TRAFFIC SIGNAL PLAN SHEET(S)
 - TRAFFIC SIGNAL CABLE PLAN SHEET(S)
 - LIGHTING PLANS
 - THIS DETAIL
- THE H.O.A. SWITCH SHALL BE LABELED AS "LIGHTING CONTROL" WITH THE POSITIONS "AUTO", "OFF" AND "TEST" WITH ENGRAVED NAME PLATES.
- LIGHTING CONNECTED TO UPS BYPASS CIRCUIT

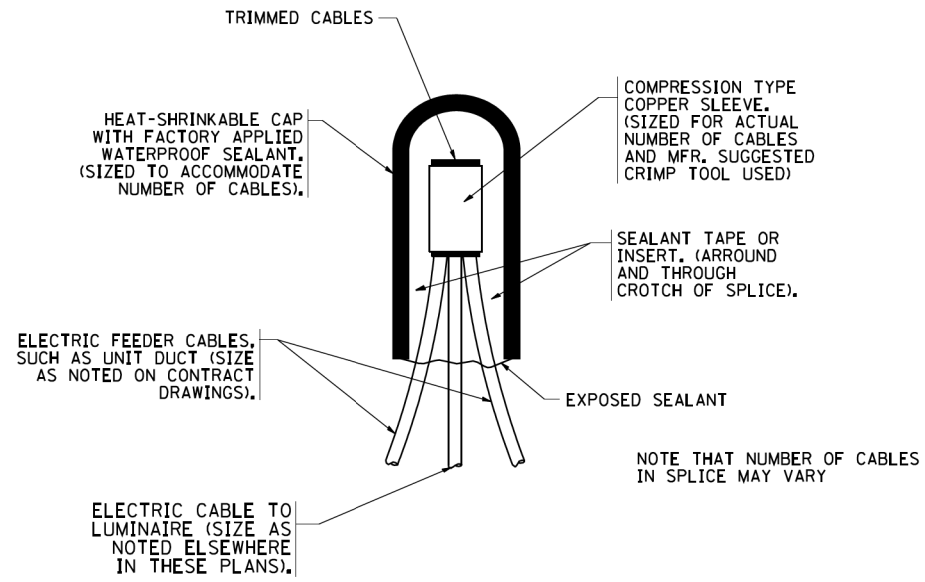
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC

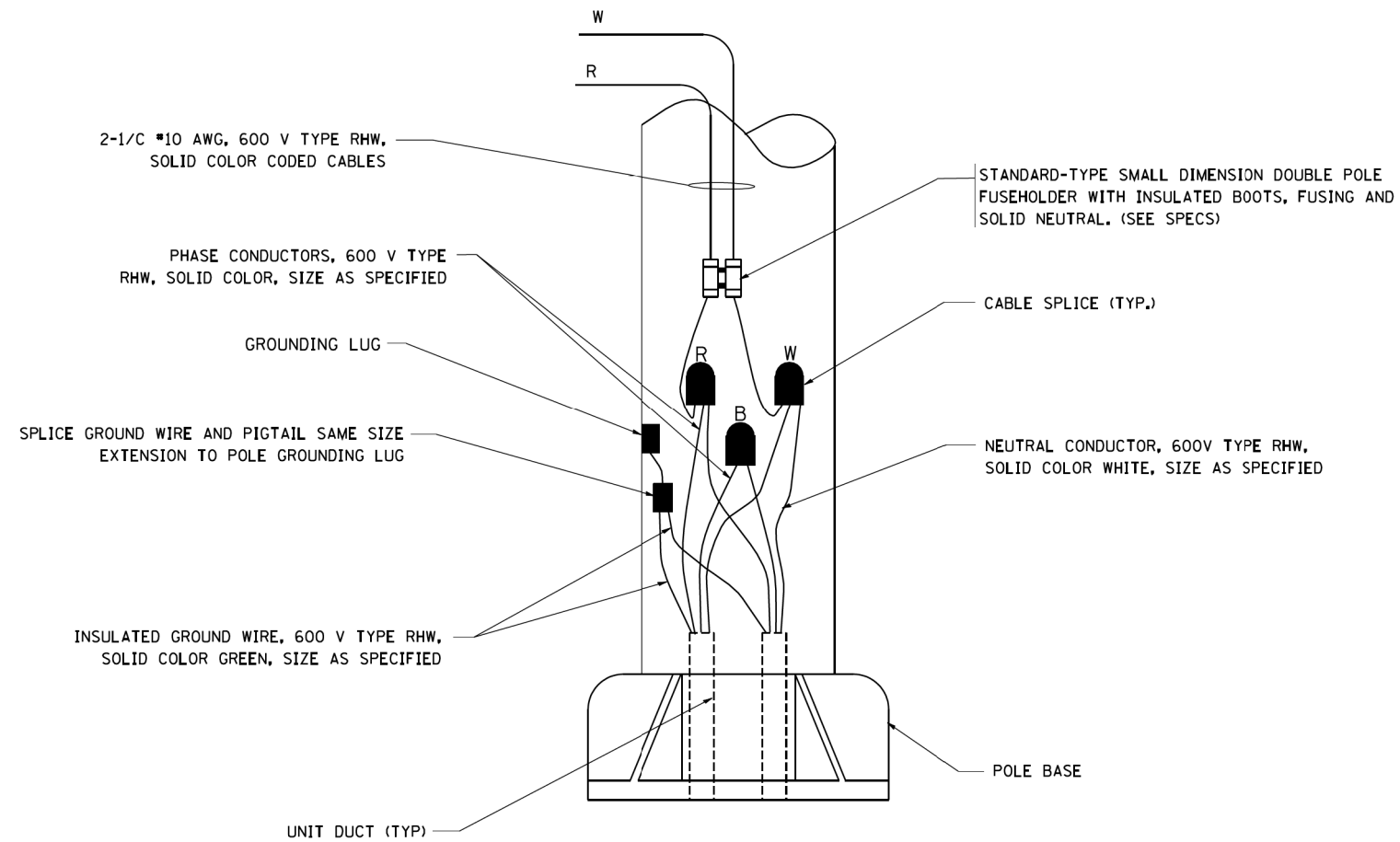
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BE-240		CONTRACT NO. 61E67		
ILLINOIS FED. AID PROJECT				



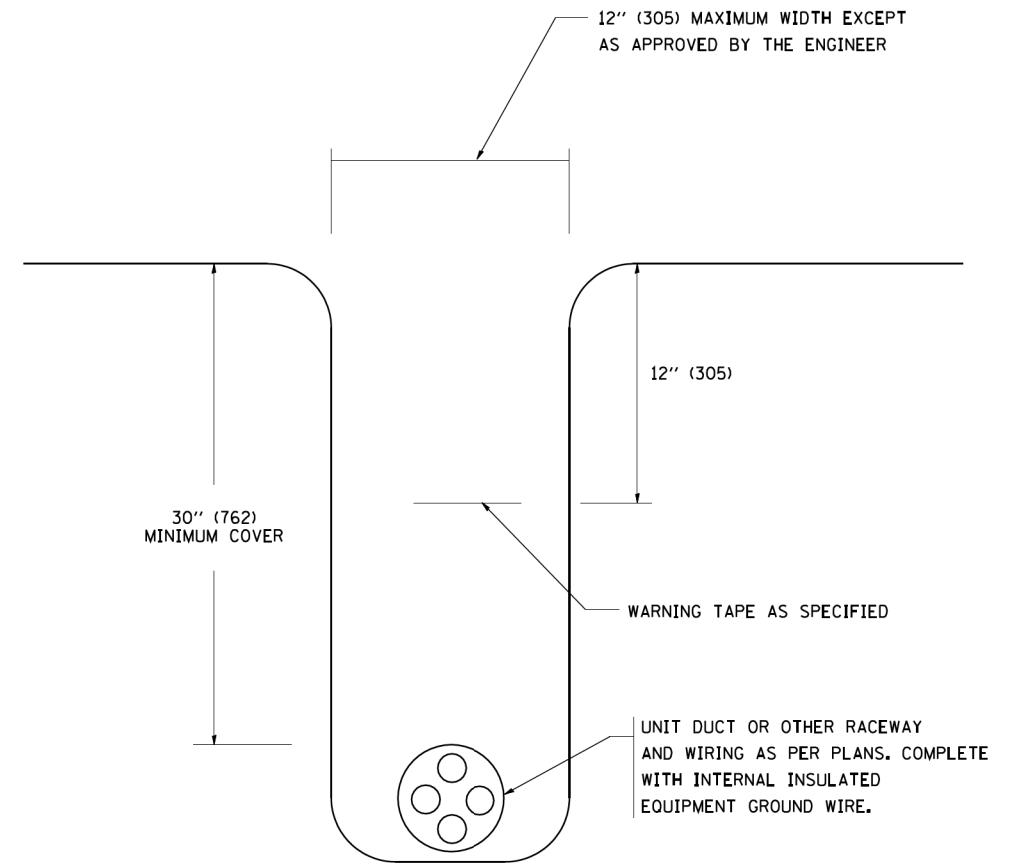
TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.

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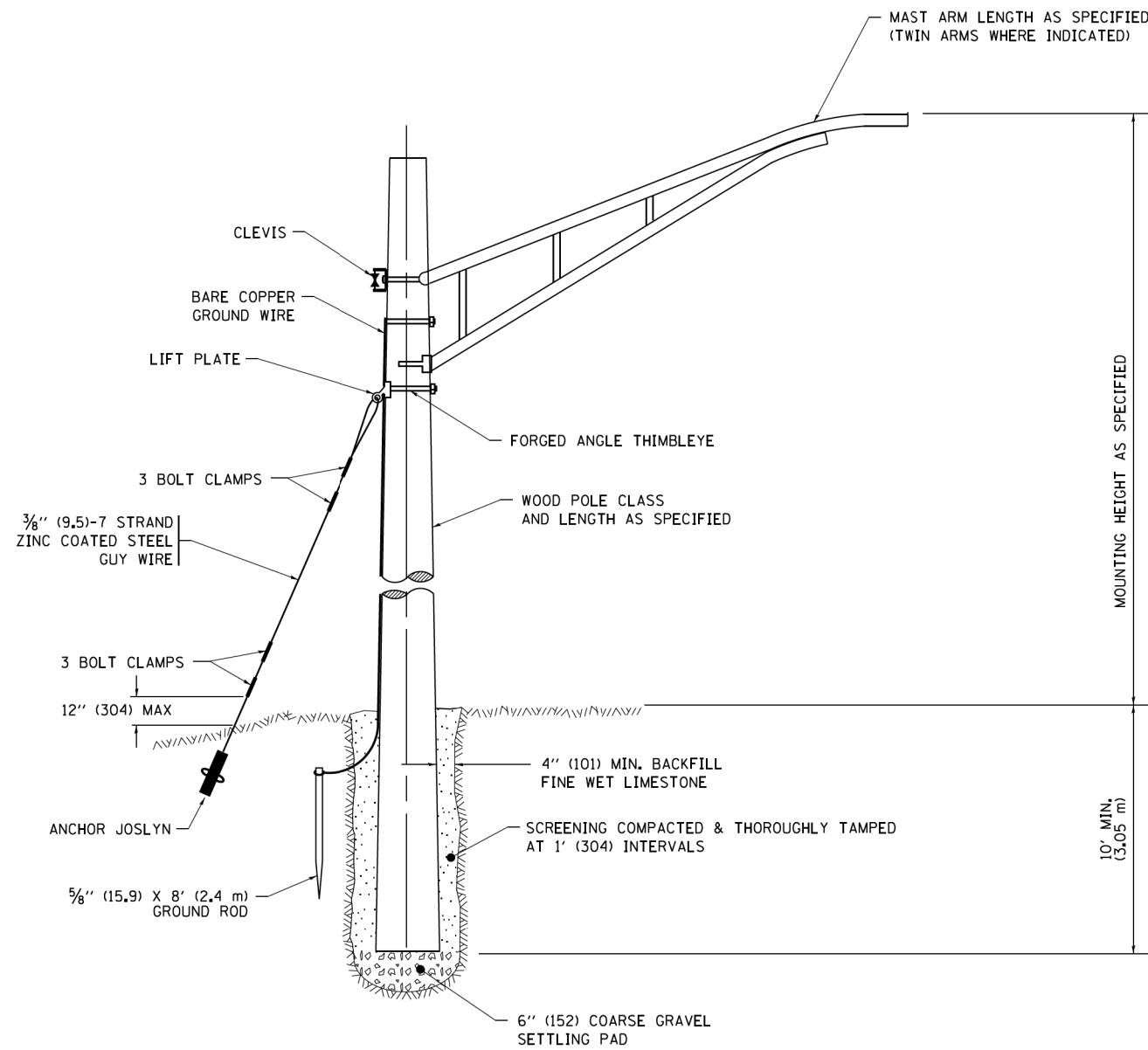
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISC. ELECTRICAL DETAILS
SHEET A

SCALE: NONE SHEET NO. 6 OF 8 SHEETS STA. TO STA.

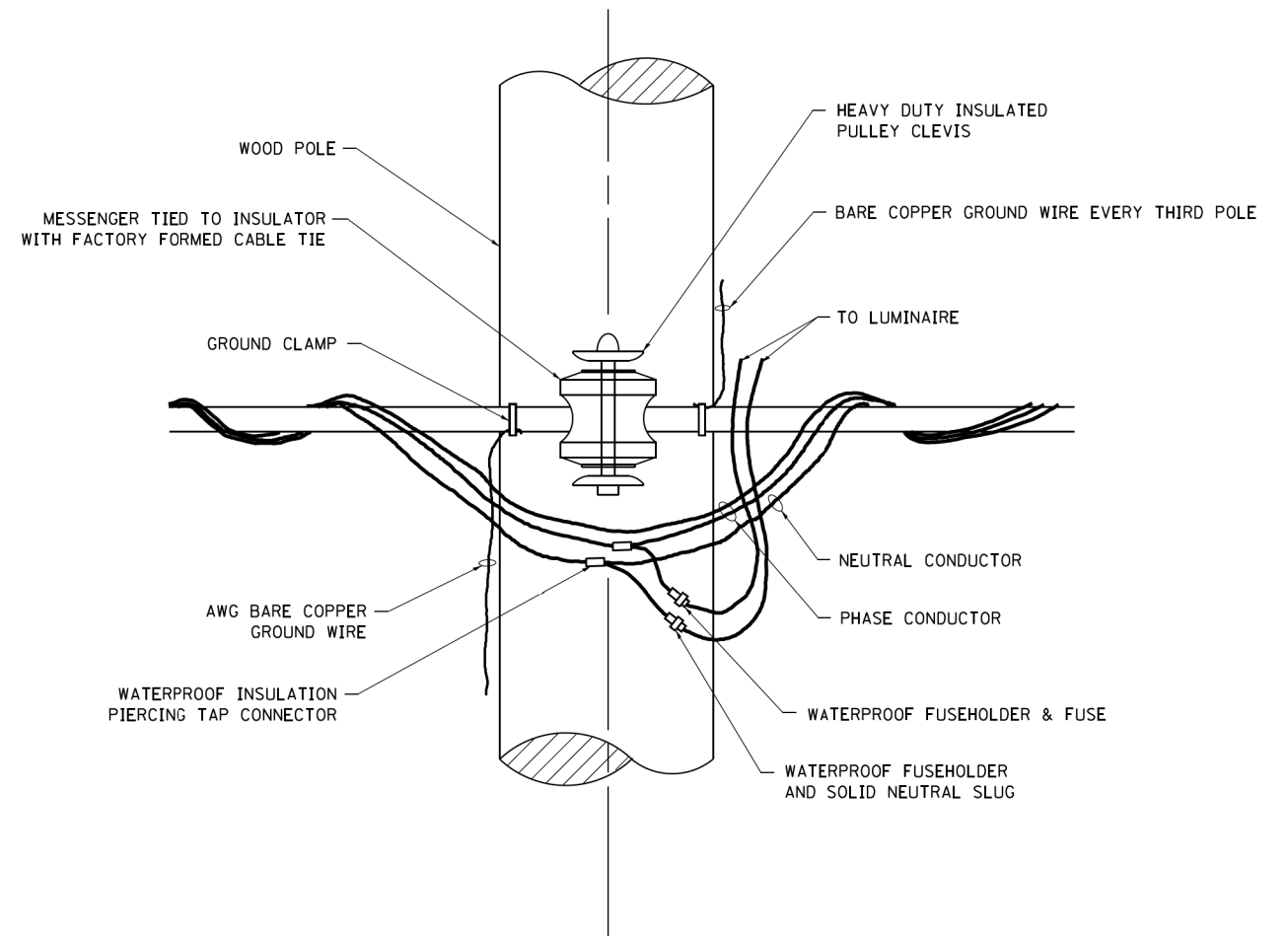
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524	14-00448-00-CH	KANE	183	152
BE-702		CONTRACT NO. 61E67		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TEMPORARY LIGHT POLE DETAIL

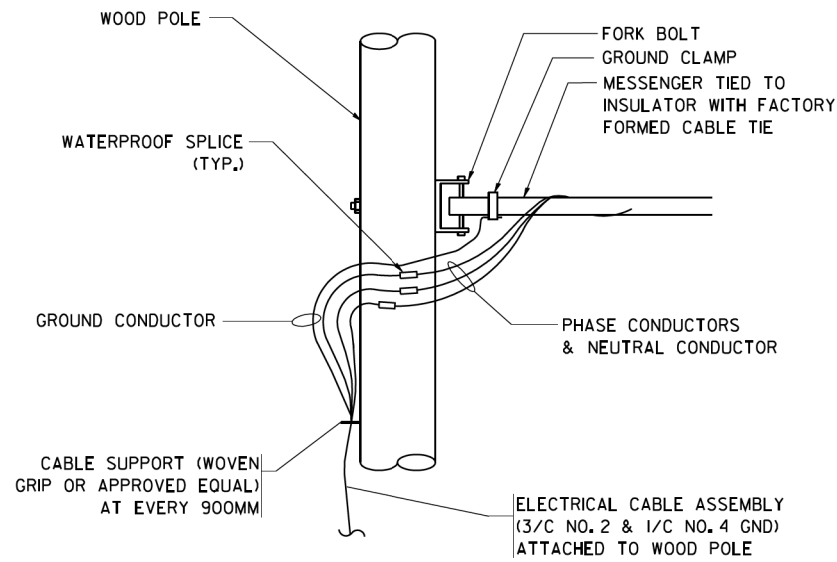
NOTE:

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

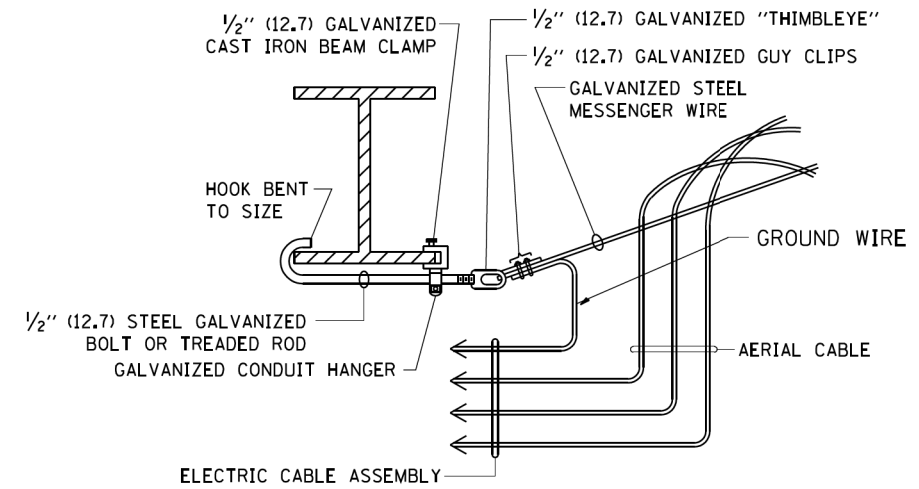


TEMPORARY LIGHT POLE ATTACHMENT DETAIL

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PLOT DATE = 9/1/2016	DATE -	REVISED -	ILLINOIS FED. AID PROJECT									
Default				SCALE: NONE	SHEET 7	OF 8	SHEETS	STA.	TO STA.			



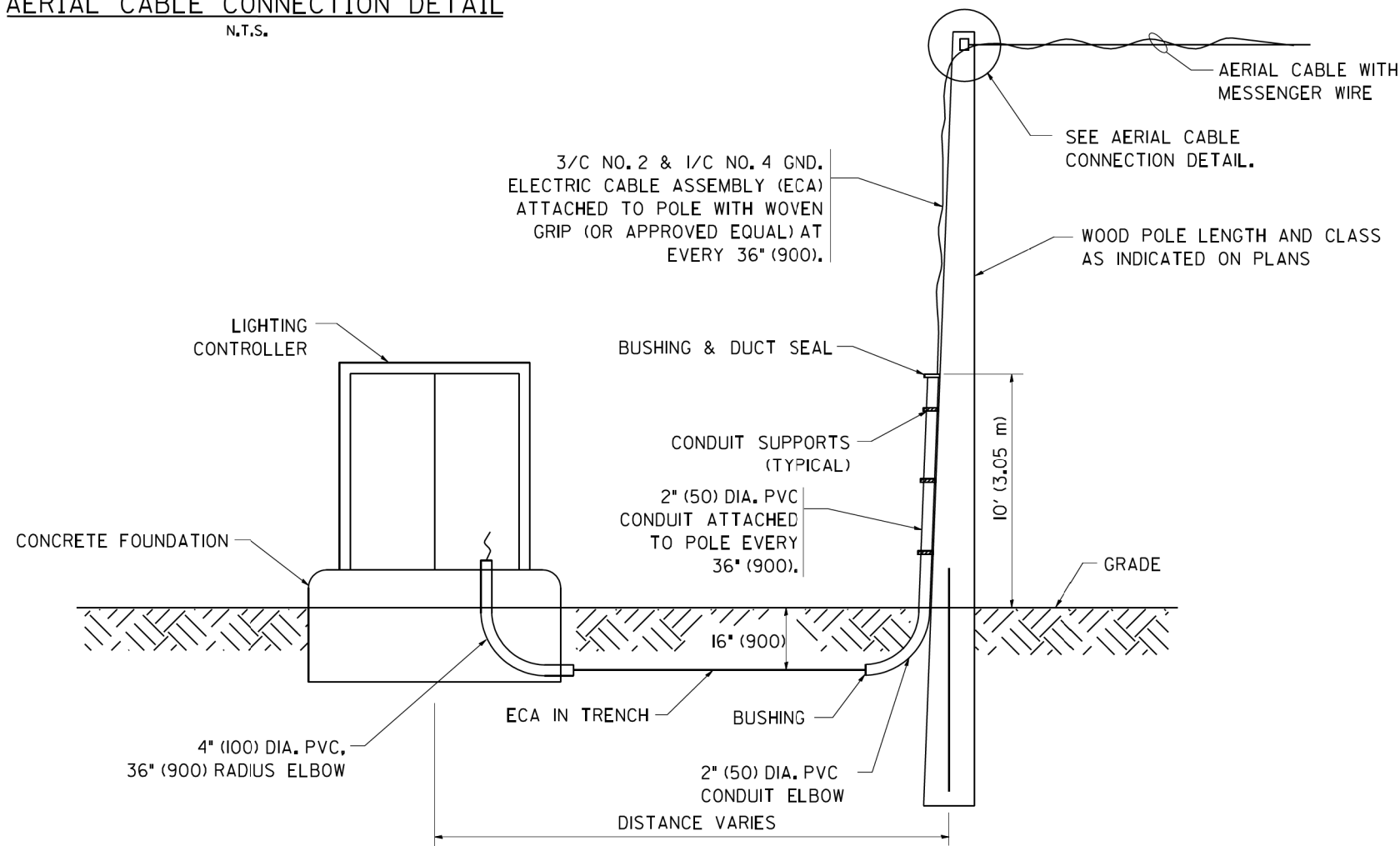
AERIAL CABLE CONNECTION DETAIL
N.T.S.



AERIAL CABLE ATTACHED TO STRUCTURE
NOT TO SCALE

NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.



WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL
N.T.S.

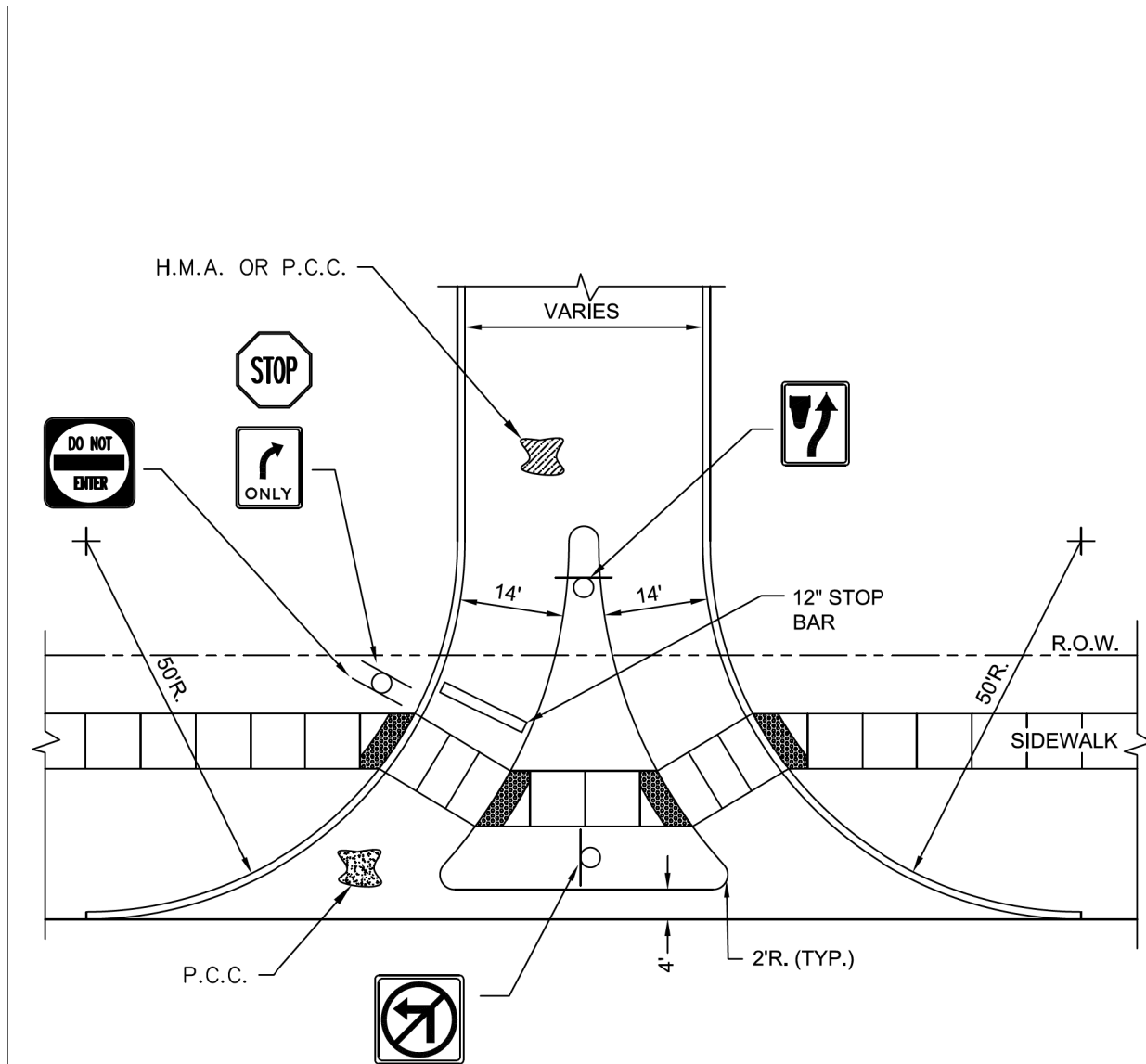
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	PLOT DATE = 1/4/2008	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY AERIAL CABLE INSTALLATION

SCALE: NONE SHEET NO. 8 OF 8 SHEETS STA. TO STA.

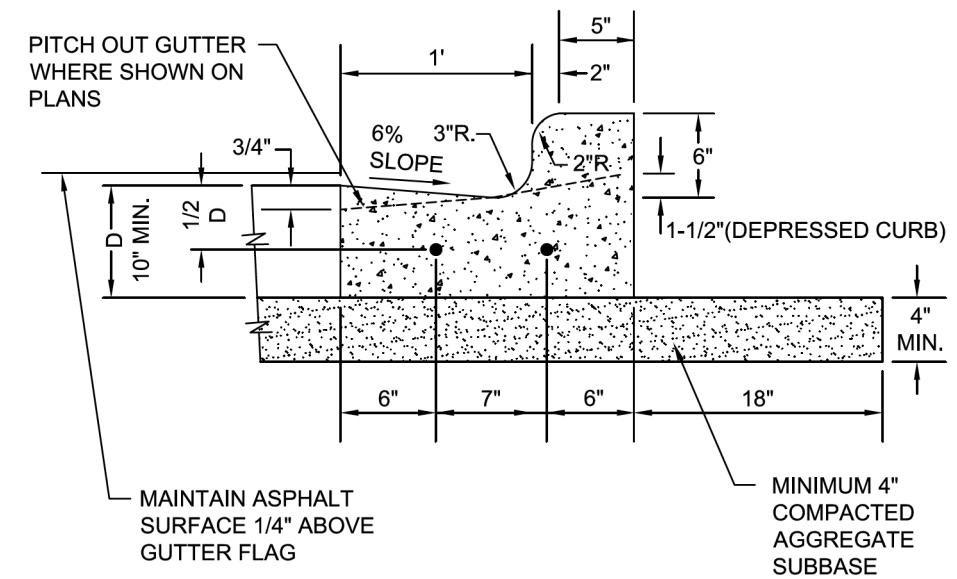
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	154
BE-801		CONTRACT NO.	61E67	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:


1. ALL AGGREGATE SUB-BASE SHALL BE MECHANICALLY COMPACTED.
2. SIDEWALK SHALL CONTINUE THROUGH DRIVEWAYS.
4. SIDEWALK CONSTRUCTION SHALL FOLLOW APPLICABLE IDOT STANDARDS.
5. SIDEWALKS SHALL FOLLOW CURRENT ADA GUIDELINES.
6. ALL DRIVEWAY APRONS SHALL BE PORTLAND CEMENT CONCRETE (P.C.C.) WITHIN THE RIGHT OF WAY (R.O.W.).

 <p>CITY OF BATAVIA PUBLIC WORKS DEPARTMENT</p> <p>SHEET: 1 OF 1 DATE: 1/1/16</p>	<p>TYPICAL RIGHT IN - RIGHT OUT ACCESS</p>
	<p>STANDARD NO. 7.02</p>



NOTES:

1. 3/4" PREFORMED BITUMINOUS EXPANSION JOINT WITH TWO (2) NUMBER 6 COATED SMOOTH DOWEL BARS (3/4" DIA. X 18") WITH GREASE CAPS SHALL BE PLACED EVERY 150', 5' EITHER SIDE OF DRAINAGE STRUCTURES, P.C.'S, RADIUS POINTS AND BACK OF CUL-DE-SACS. WHEN EXPANSION JOINTS ARE CONSTRUCTED ADJACENT TO EXISTING CURB & GUTTER THE EXISTING CURB SHALL BE DRILLED AND TWO (2) NUMBER 6 EPOXY COATED SMOOTH DOWEL BARS (3/4" X 18") GROUTED IN PLACE. GREASE CAPS SHALL BE PLACED ON THE SIDE OF THE NEW CURB AND GUTTER SHALL HAVE A PINCHED STOP THAT WILL PROVIDE A MINIMUM 1" EXPANSION.
2. TOOLED CONTROL JOINTS OR SAWCUTS SHALL BE MADE EVERY 15'.
3. SAWCUTS SHALL BE MADE WITHIN TWENTY-FOUR (24) HOURS AND SEALED WITH A CITY APPROVED JOINT SEALANT. JOINTS SHALL BE CLEAN AND DRY PRIOR TO APPLICATION OF SEALANT.
4. FOR CURB AND GUTTER CONSTRUCTED OVER UTILITY TRENCHES, TWO (2) EPOXY COATED REINFORCING BARS (NO. 5) SHALL BE PLACED IN THE CURB AND GUTTER, CENTERED OVER THE TRENCH.

 <p>CITY OF BATAVIA PUBLIC WORKS</p> <p>SHEET: 1 OF 1 DATE: 1/1/16</p>	<p>B6.12 BARRIER CURB & GUTTER</p>
	<p>STANDARD NO. 7.04</p>



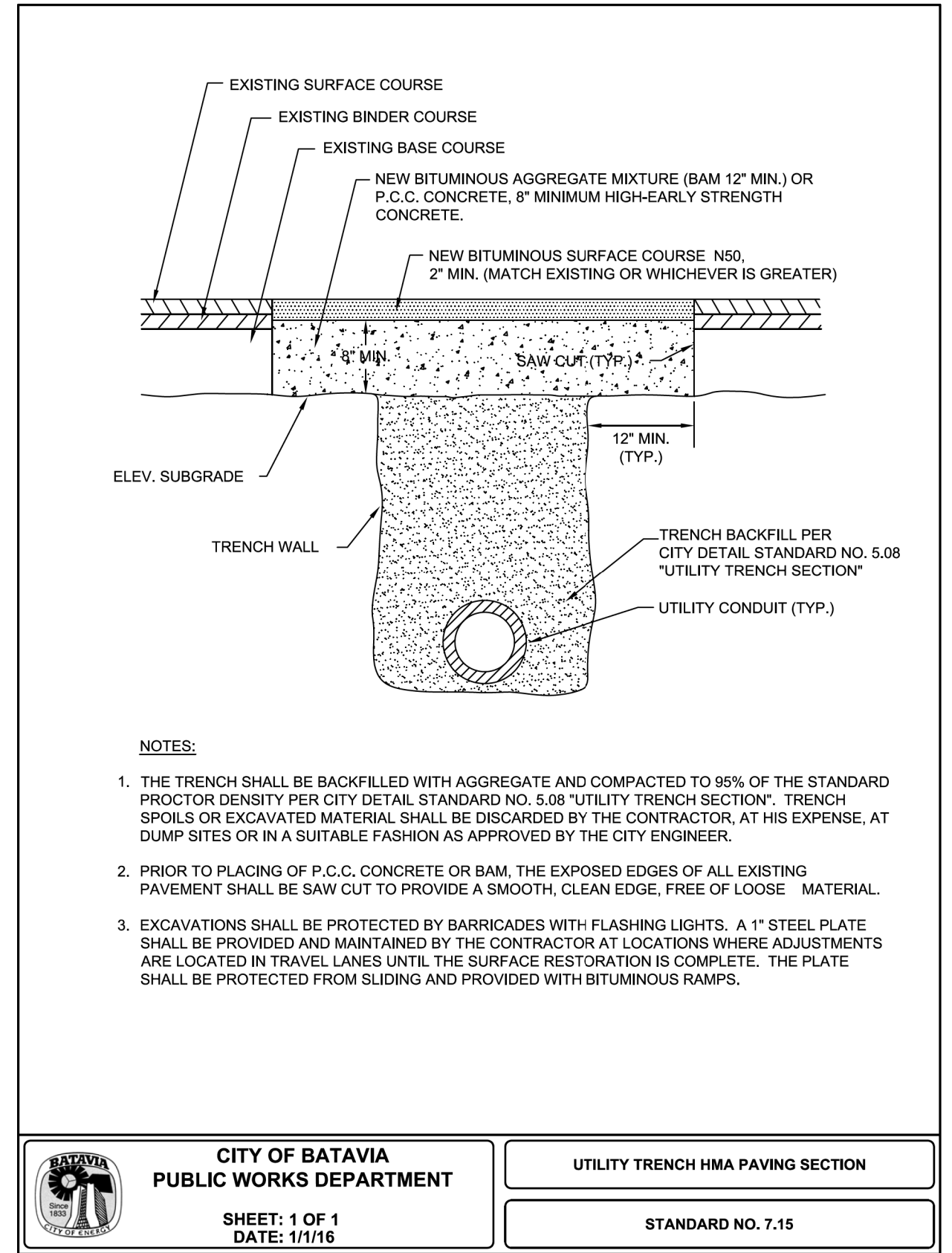
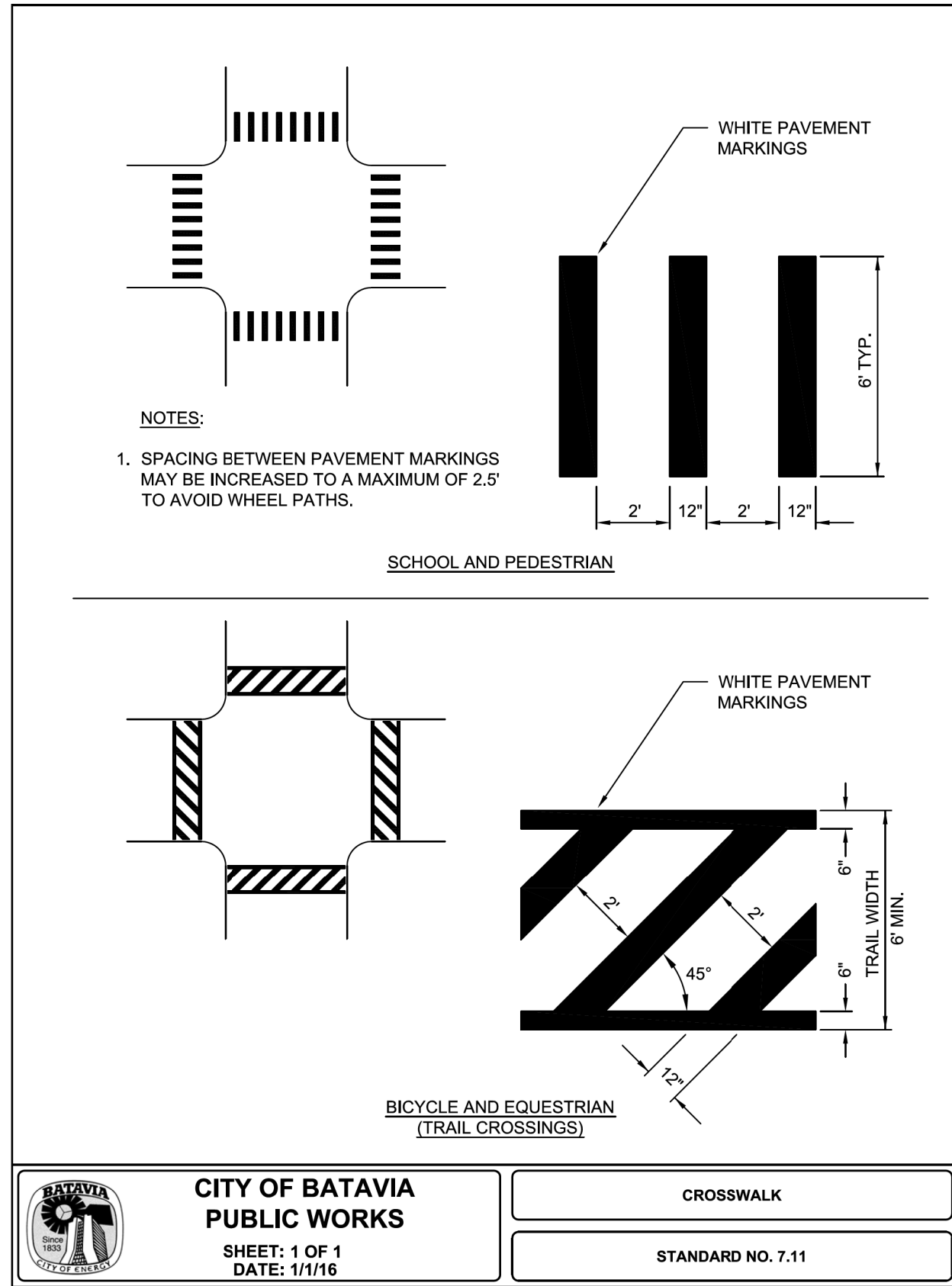
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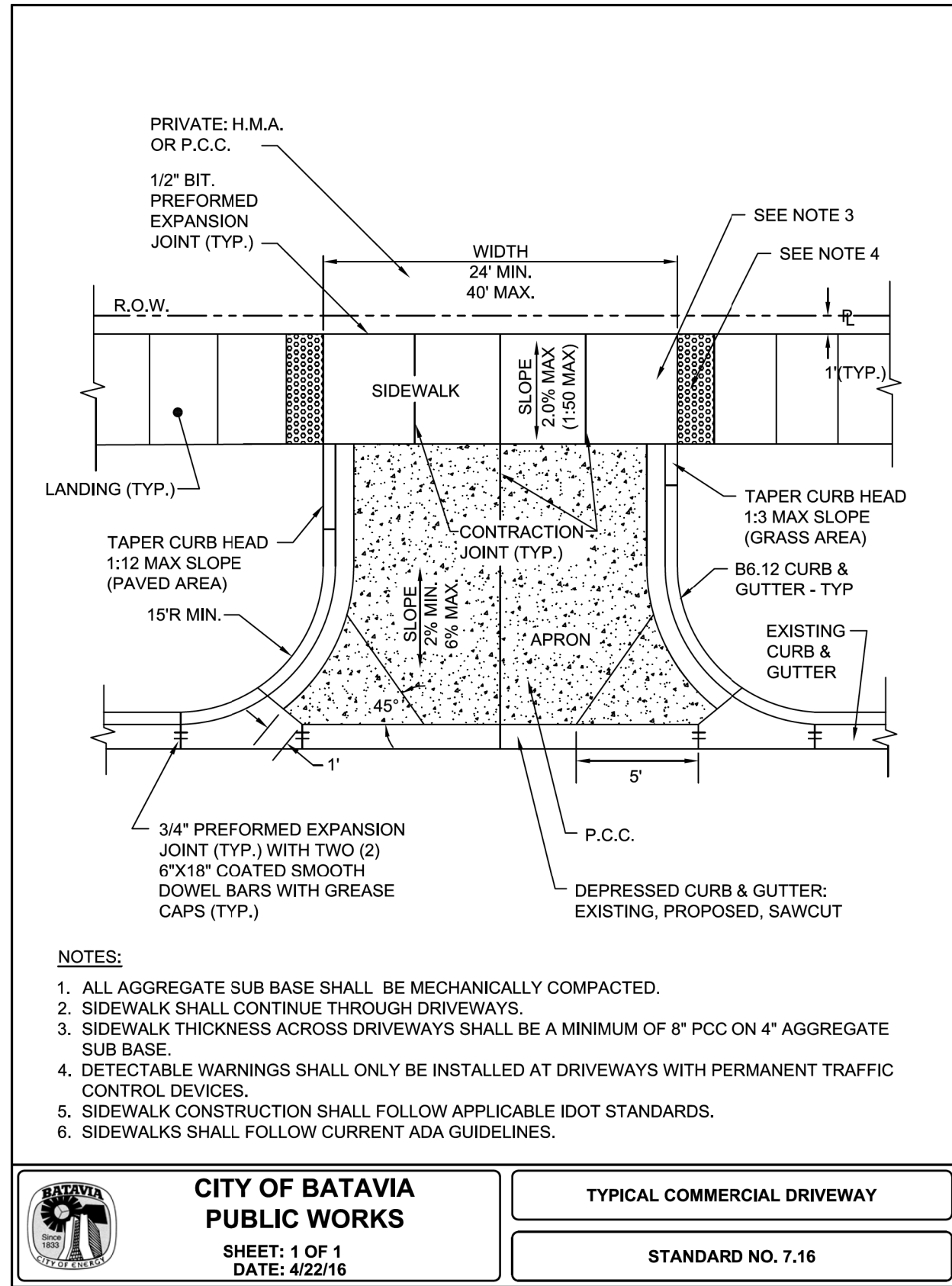
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION


ROADWAY DETAILS - CITY OF BATAVIA
TYPICAL RIGHT IN-RIGHT OUT ACCESS / B6.12 BARRIER CURB & GUTTER

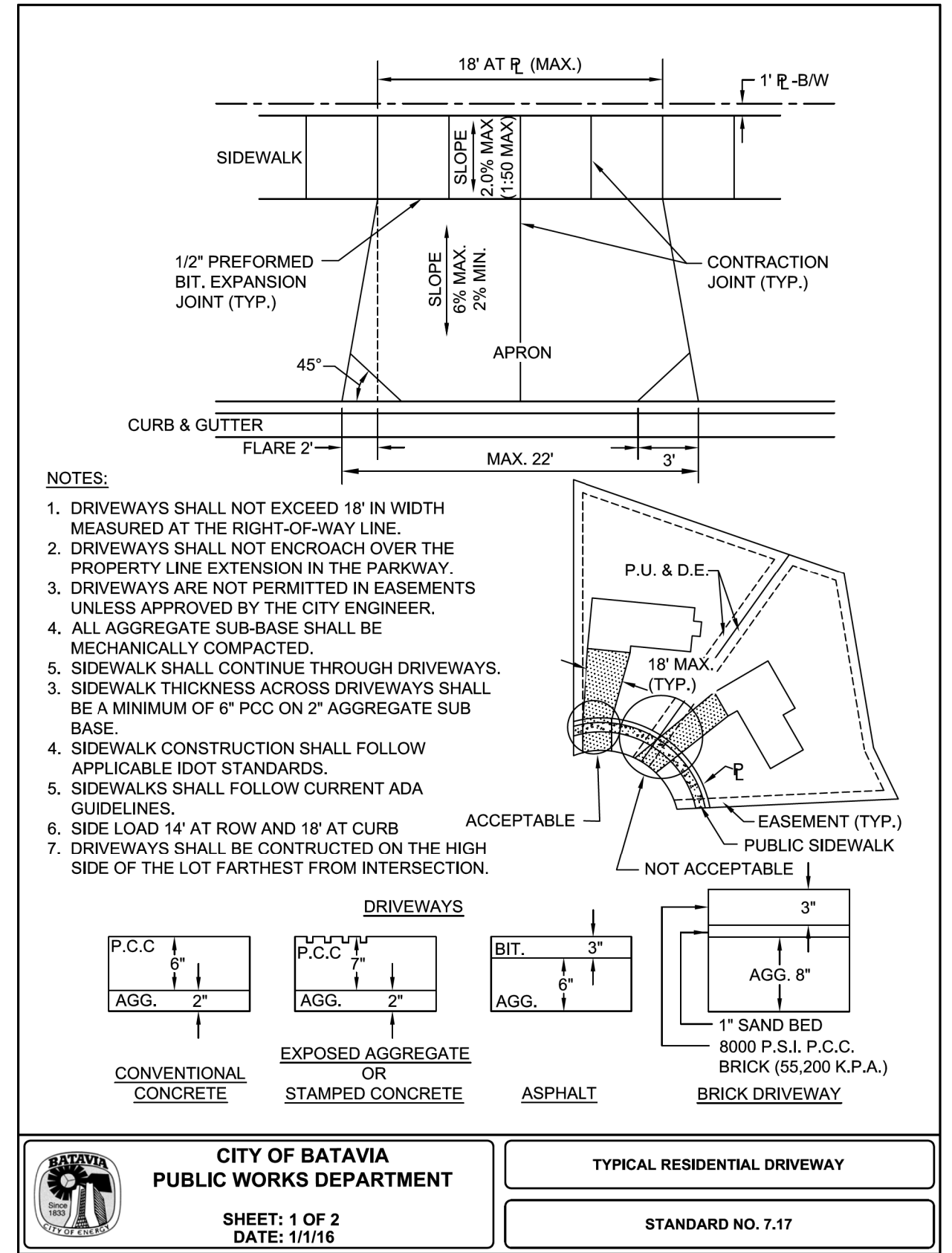
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CONTRACT NO. = 61E67				
ILLINOIS FED. AID PROJECT				


SCALE: SHEET 1 OF 6 SHEETS STA. TO STA.

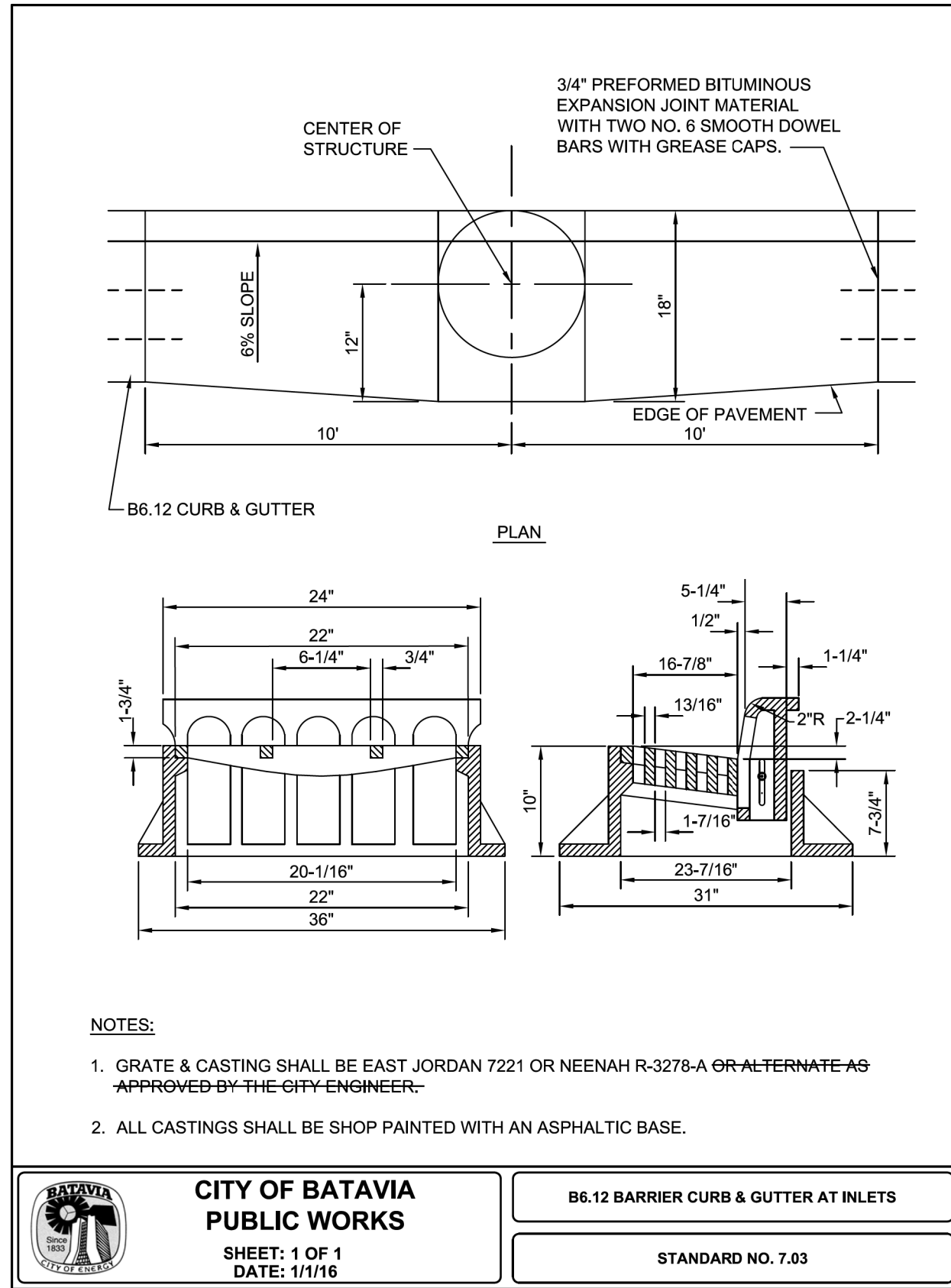





 <p>CITY OF BATAVIA PUBLIC WORKS</p> <p>SHEET: 1 OF 1 DATE: 4/22/16</p>	<p>TYPICAL COMMERCIAL DRIVEWAY</p>
	<p>STANDARD NO. 7.16</p>



 <p>CITY OF BATAVIA PUBLIC WORKS DEPARTMENT</p> <p>SHEET: 1 OF 2 DATE: 1/1/16</p>	<p>TYPICAL RESIDENTIAL DRIVEWAY</p>
	<p>STANDARD NO. 7.17</p>

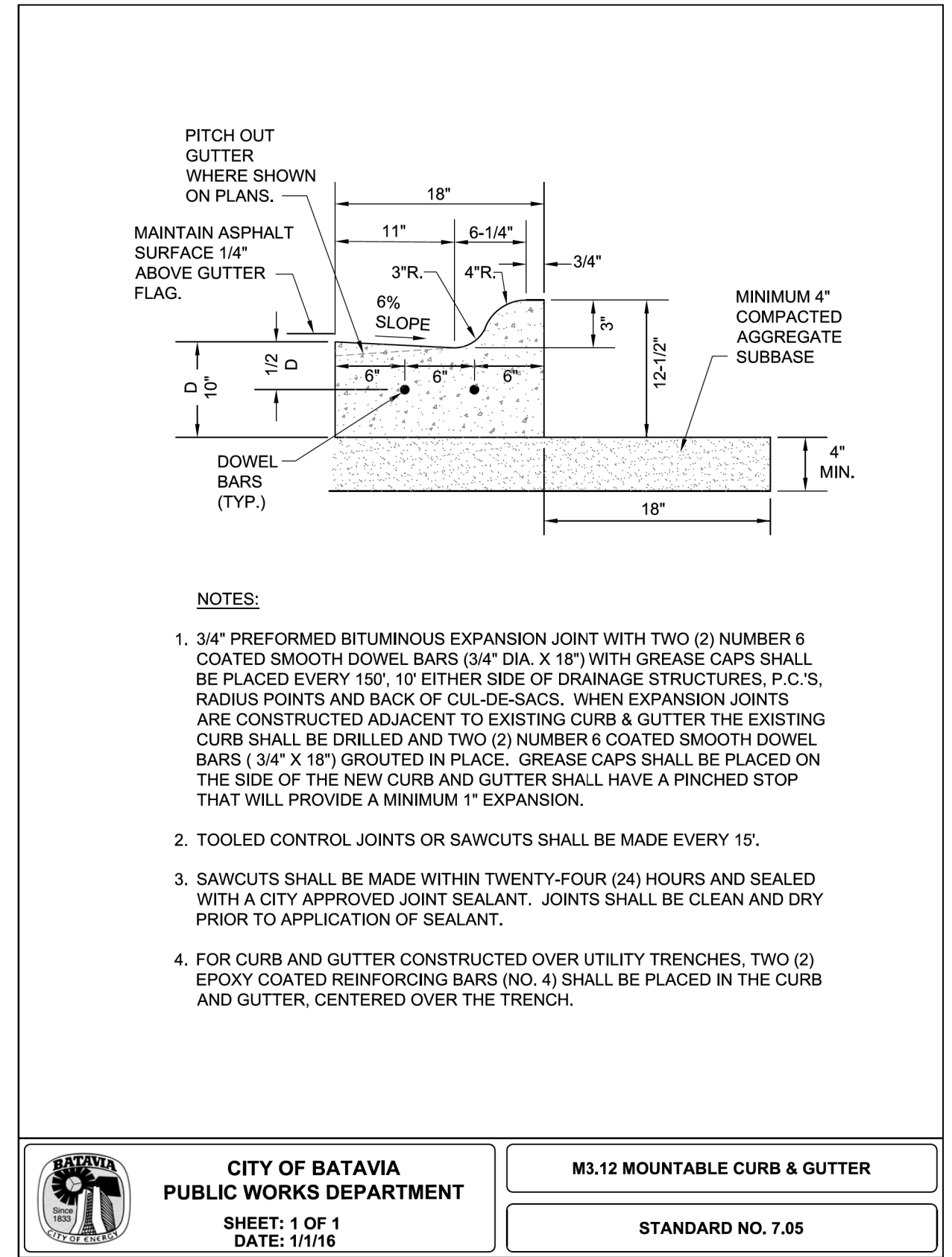




**CITY OF BATAVIA
PUBLIC WORKS**

SHEET: 1 OF 1
DATE: 1/1/16

B6.12 BARRIER CURB & GUTTER AT INLETS

STANDARD NO. 7.03

**CITY OF BATAVIA
PUBLIC WORKS DEPARTMENT**

SHEET: 1 OF 1
DATE: 1/1/16

M3.12 MOUNTABLE CURB & GUTTER

STANDARD NO. 7.05

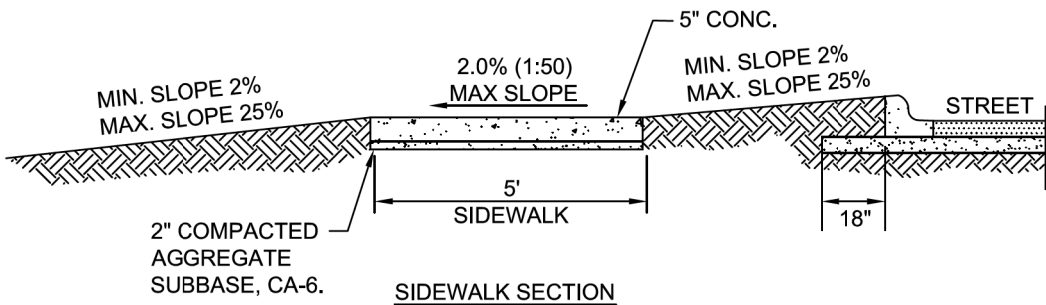
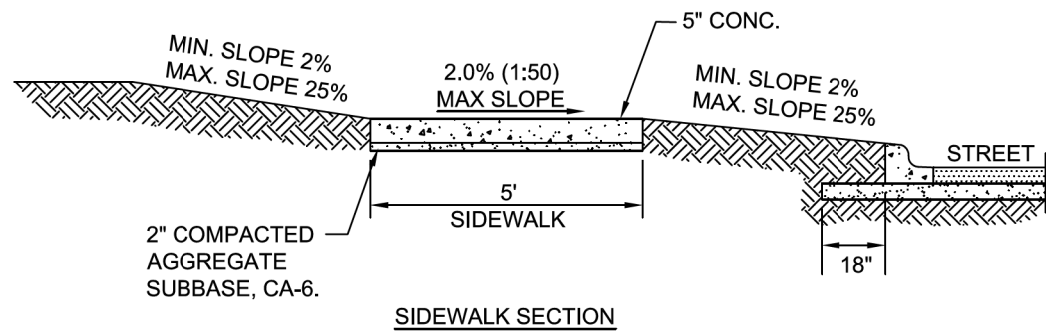


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS - CITY OF BATAVIA			
B6.12 BARRIER CURB & GUTTER (C&G) AT INLETS/ M3.12 MOUNTABLE C&G			
SCALE:	SHEET 4	OF 6 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	158
CONTRACT NO.				61E67
ILLINOIS		FED. AID PROJECT		



NOTES:

1. CONCRETE SHALL BE IDOT CLASS SI.
2. MINIMUM SIDEWALK THICKNESS SHALL BE 5".
3. SIDEWALK THICKNESS ACROSS DRIVEWAYS SHALL BE AT A MINIMUM 6" FOR RESIDENTIAL DRIVEWAYS AND 8" FOR COMMERCIAL DRIVEWAYS.
4. MAXIMUM LONGITUDINAL SLOPE SHALL NOT EXCEED 5% (20:1). FOR ANY SLOPE IN EXCESS OF 5%, ALL REQUIREMENTS OF THE ILLINOIS ACCESSIBILITY CODE (LATEST EDITION) SHALL BE MET.
5. MINIMUM TRANSVERSE SLOPE SHALL BE 1.0% (1:100). MAXIMUM TRANSVERSE SLOPE SHALL BE 2.0% (1:50).
6. A MINIMUM 2" AGGREGATE SUBBASE (CA-6) SHALL BE PROVIDED. (4" THROUGH COMMERCIAL DRIVEWAYS).
7. AGGREGATE SUBBASE SHALL BE MECHANICALLY COMPACTED.
8. ALL SIDEWALKS SHALL BE PROMPTLY BACKFILLED AND PROTECTED FROM DAMAGE.
9. SIDEWALK CONSTRUCTION SHALL FOLLOW APPLICABLE IDOT STANDARDS.
10. SIDEWALKS SHALL FOLLOW CURRENT ADA GUIDELINES.



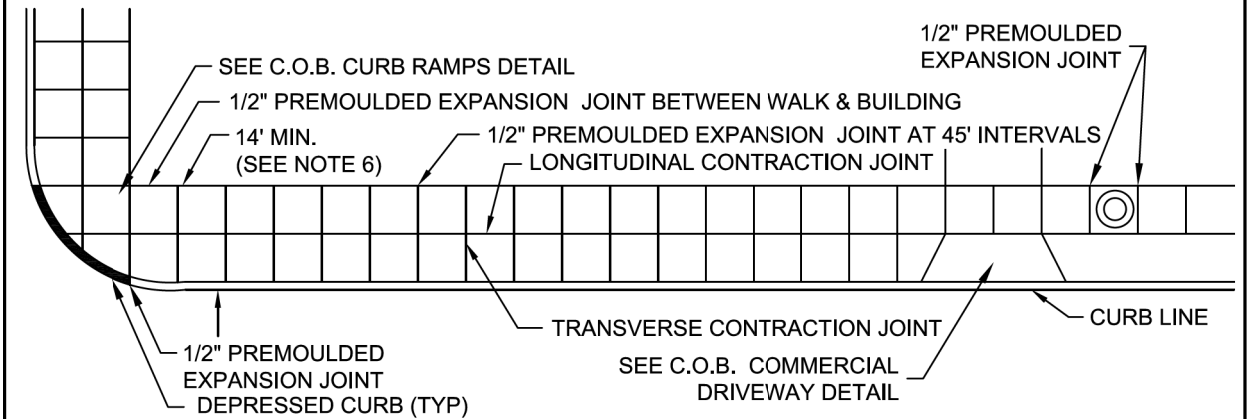
**CITY OF BATAVIA
 PUBLIC WORKS DEPARTMENT**

**SHEET: 1 OF 1
 DATE: 1/1/16**

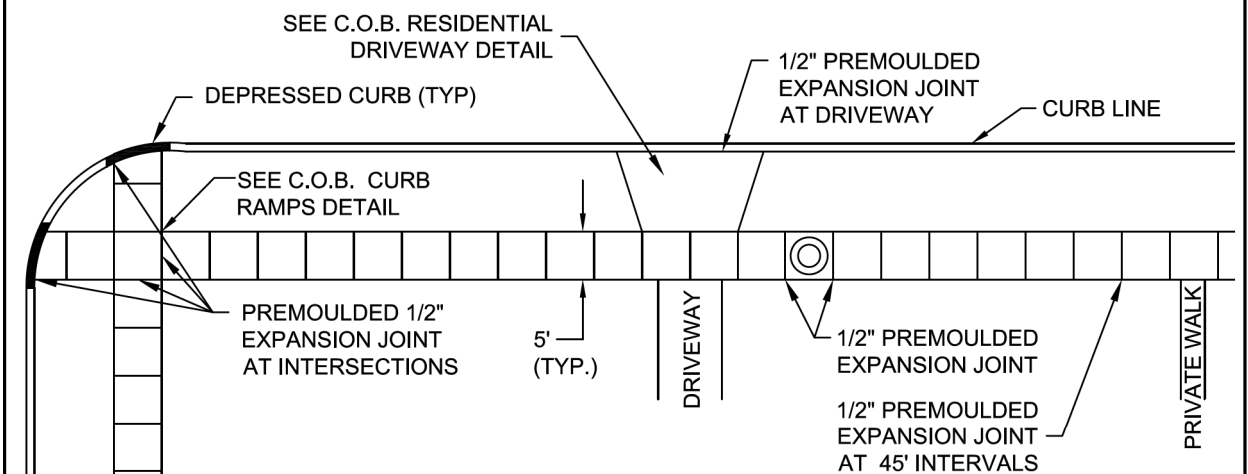
SIDEWALK

STANDARD NO. 7.08

CENTRAL BUSINESS DISTRICT



RESIDENTIAL AREA



NOTES:

1. ALL AGGREGATE SUB-BASE SHALL BE MECHANICALLY COMPACTED.
2. SIDEWALK THICKNESS AT CURB RAMPS, THRU DRIVEWAYS, AND CARRIAGE WALKS SHALL BE A MINIMUM OF 6" PCC ON 2" AGGREGATE SUB BASE.
3. SIDEWALK CONSTRUCTION SHALL FOLLOW APPLICABLE IDOT STANDARDS.
4. SIDEWALKS SHALL FOLLOW CURRENT ADA GUIDELINES.
5. THE MINIMUM WIDTH OF PUBLIC SIDEWALKS FOR ALL TYPES OF ZONING SHALL NOT BE LESS THAN 5 FEET.
6. MINIMUM SIDEWALK WIDTH IS 10 FEET WITH GRASS PARKWAY.



**CITY OF BATAVIA
 PUBLIC WORKS DEPARTMENT**

**SHEET: 1 OF 1
 DATE: 1/1/16**

SIDEWALK CONSTRUCTION

STANDARD NO. 7.09



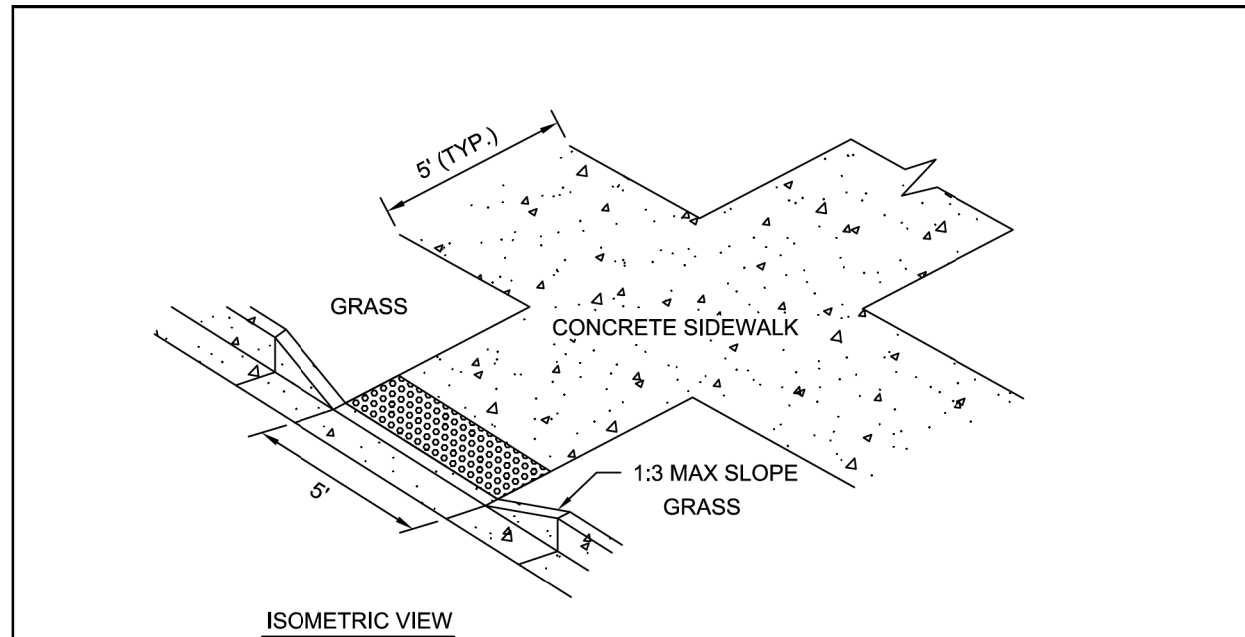
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY DETAILS - CITY OF BATAVIA
 SIDEWALK / SIDEWALK CONSTRUCTION**

SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	159
CONTRACT NO.			61E67	
ILLINOIS		FED. AID PROJECT		



ISOMETRIC VIEW

NOTES:

1. ALL AGGREGATE SUB-BASE SHALL BE MECHANICALLY COMPACTED.
2. SIDEWALK THICKNESS AT CURB RAMPS SHALL BE A MINIMUM OF 6" PCC ON 2" AGGREGATE SUB BASE.
3. SIDEWALK CONSTRUCTION SHALL FOLLOW APPLICABLE IDOT STANDARDS.
4. SIDEWALKS SHALL FOLLOW CURRENT ADA GUIDELINES.

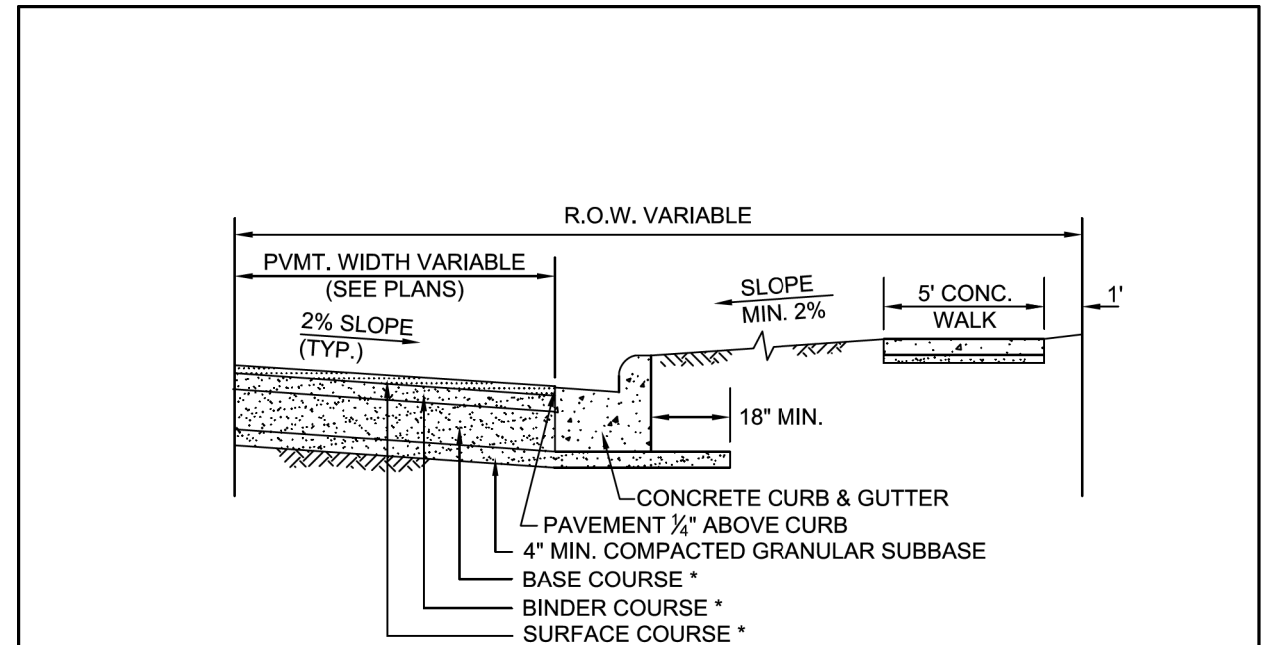
APPLICABLE IDOT STANDARD DETAILS:

424001-07	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-01	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-01	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016-01	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424021-01	DEPRESSED CORNER FOR SIDEWALKS
424026-01	ENTRANCE/ALLEY PEDESTRIAN CROSSINGS
424031-01	MEDIAN PEDESTRIAN CROSSINGS
606001-05	CONCRETE CURB TYPE B AND COMB CONCRETE CURB AND GUTTER

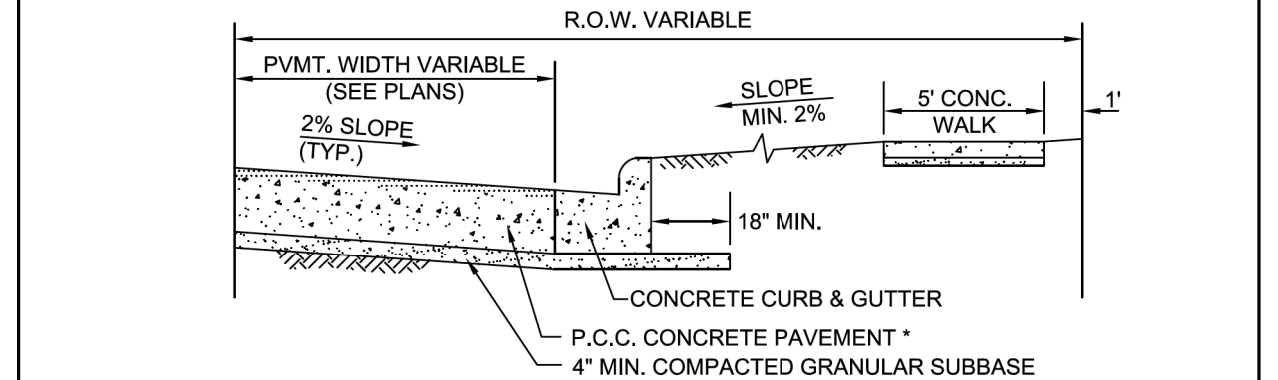
APPROVED ADA DETECTABLE WARNING TILES:

1. ADA SOLUTIONS - CAST IN PLACE REPLACEABLE
2. ARMOR TILE - CAST IN PLACE
3. DETECTILE - SLIMTEK II

<p>CITY OF BATAVIA PUBLIC WORKS</p> <p>SHEET: 1 OF 1 DATE: 1/1/16</p>	<p>CURB RAMPS</p>
	<p>STANDARD NO. 7.10</p>



FLEXIBLE PAVEMENT



RIGID PAVEMENT

* REFER TO THE DESIGN MANUAL FOR THICKNESS REQUIREMENTS FOR HMA AND PCC COURSES.

<p>CITY OF BATAVIA PUBLIC WORKS</p> <p>SHEET: 1 OF 1 DATE: 1/1/16</p>	<p>TYPICAL PAVEMENT DETAILS</p>
	<p>STANDARD NO. 7.13</p>



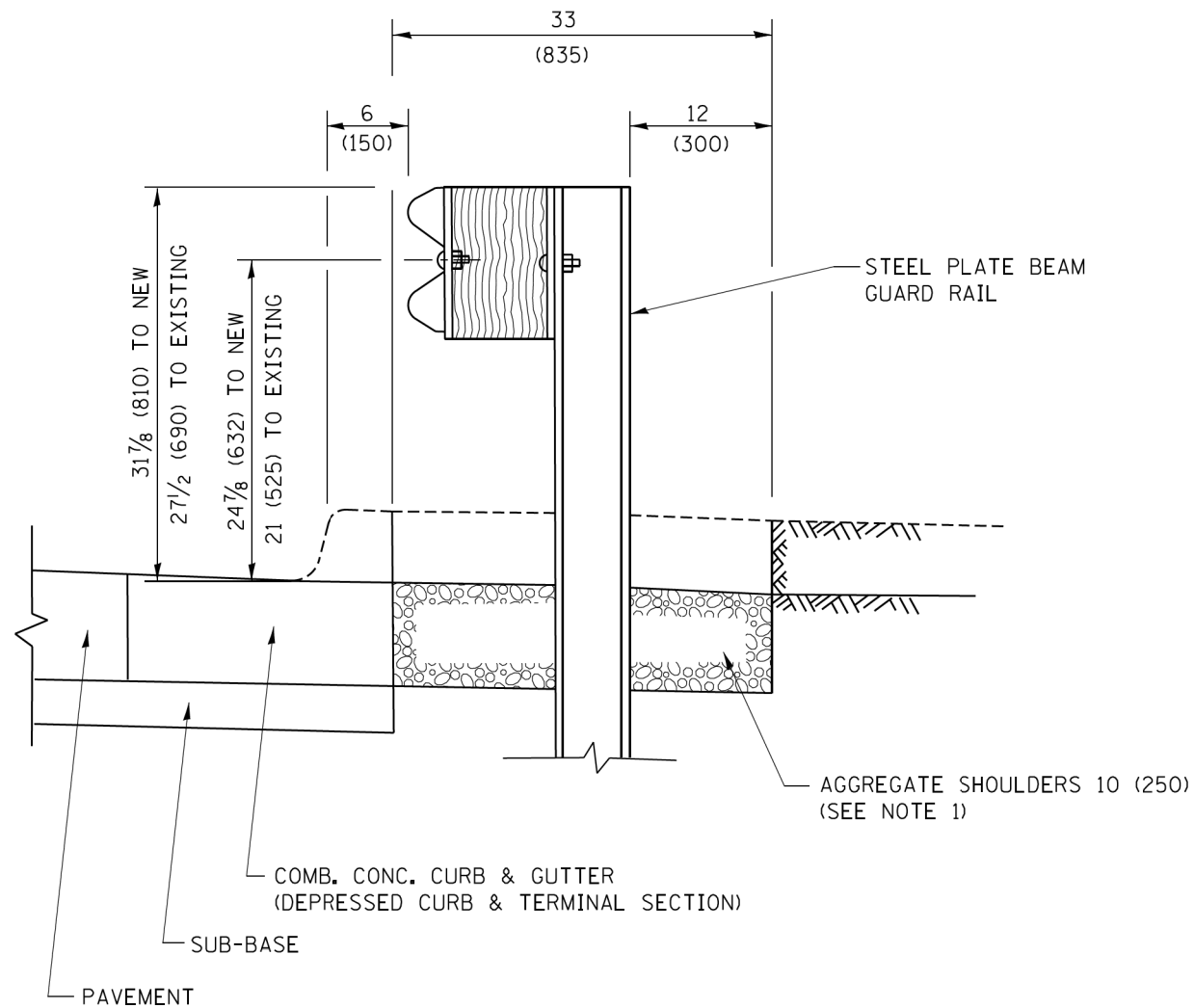
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS - CITY OF BATAVIA
CURB RAMPS / TYPICAL PAVEMENT DETAILS

SCALE: SHEET 6 OF 6 SHEETS STA. TO STA.

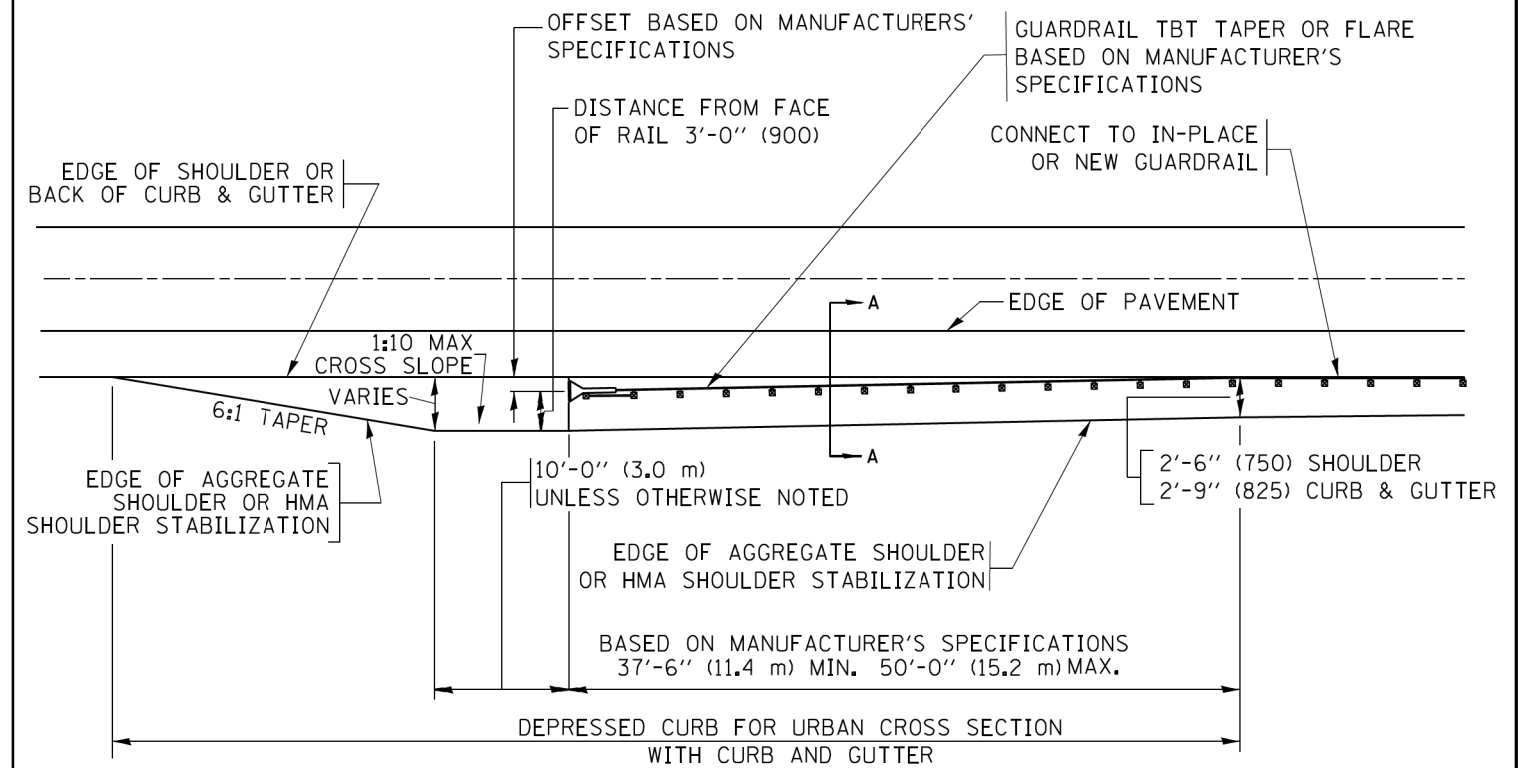
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	160
CONTRACT NO.			61E67	
ILLINOIS		FED. AID PROJECT		



SECTION A-A

- NOTES:
1. THE AGGREGATE SHOULDER, 10 (250) OR HMA SHOULDER, 6 (150) (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
 2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
 3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

**DETAILS FOR STEEL PLATE BEAM
GUARD RAIL ADJACENT TO CURB AND GUTTER
[FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]**



**DEPRESSED CURB AND GUTTER AND
SHOULDER TREATMENT AT TBT TY. 1 SPL.**

AGGREGATE SHOULDER, 10 (250) WILL BE PAID ACCORDING TO SECTION 481.

HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID ACCORDING TO SECTION 482.

COMB. CONC. C&G, STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

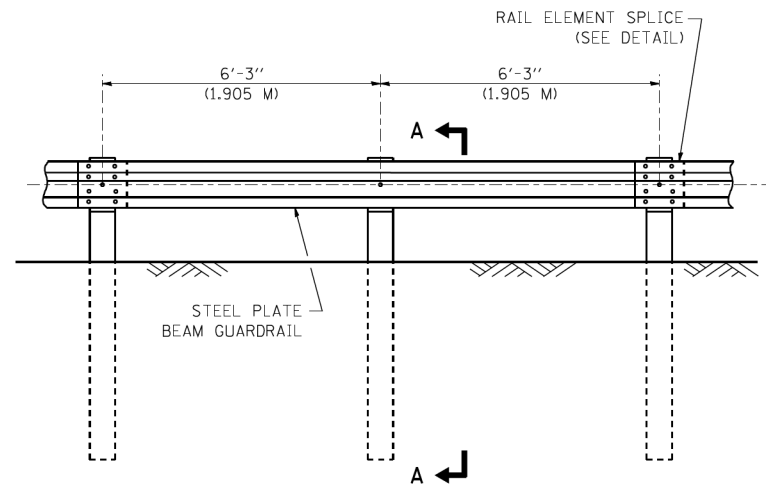
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR DEPRESSED CURB & GUTTER AND
SHOULDER TREATMENT AT TBT TY. 1 SPL.

SCALE: NONE SHEET 2 OF 7 SHEETS STA. TO STA.

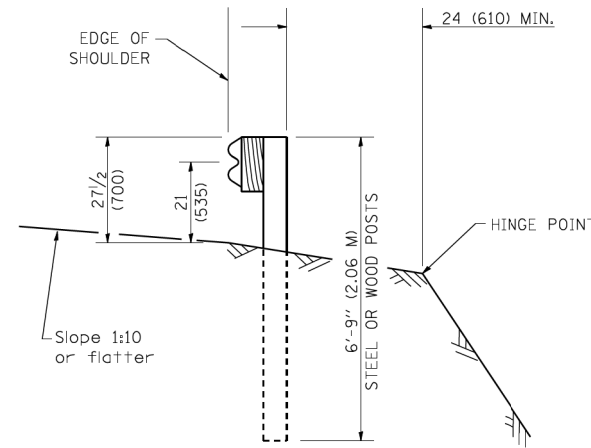
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BD600-10 (BD 34)		CONTRACT NO.	61E67	
ILLINOIS FED. AID PROJECT				



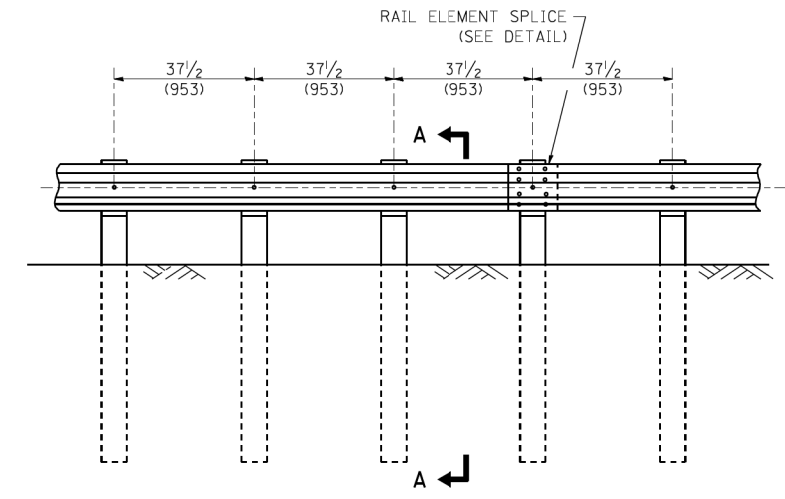
ELEVATION

TYPE A

6'-3" (1.905 M) TYPICAL POST SPACING



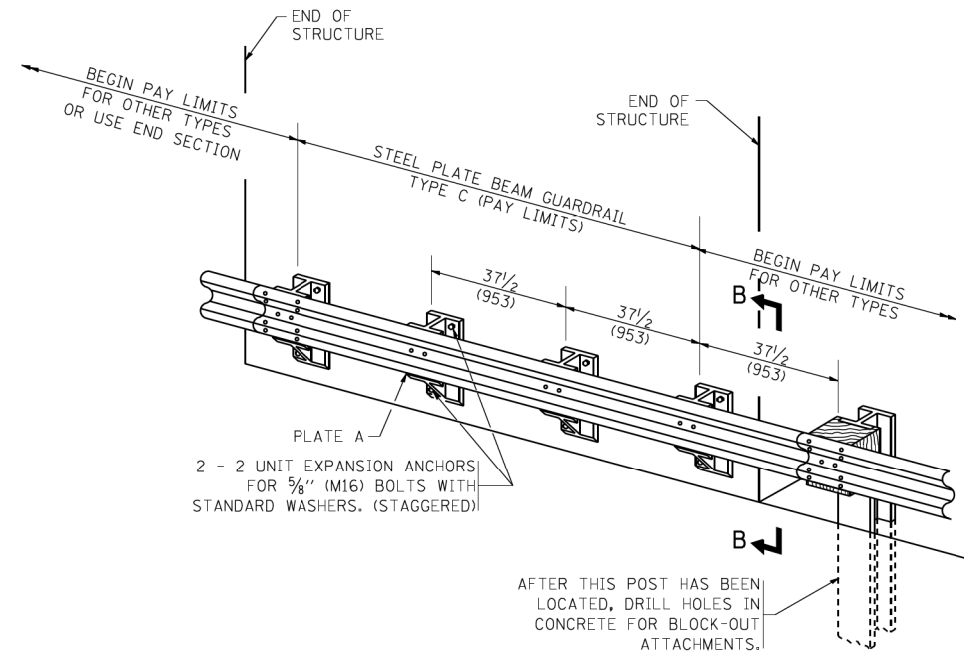
SECTION A-A



ELEVATION

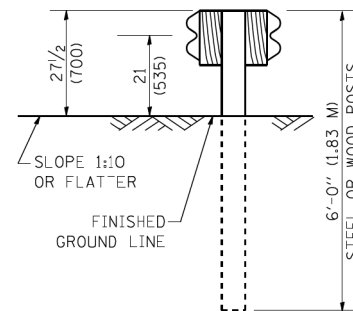
TYPE A

37 1/2 (953) CLOSED POST SPACING

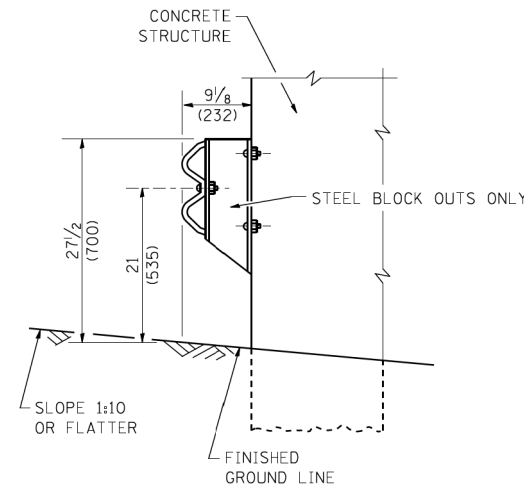


TYPE C

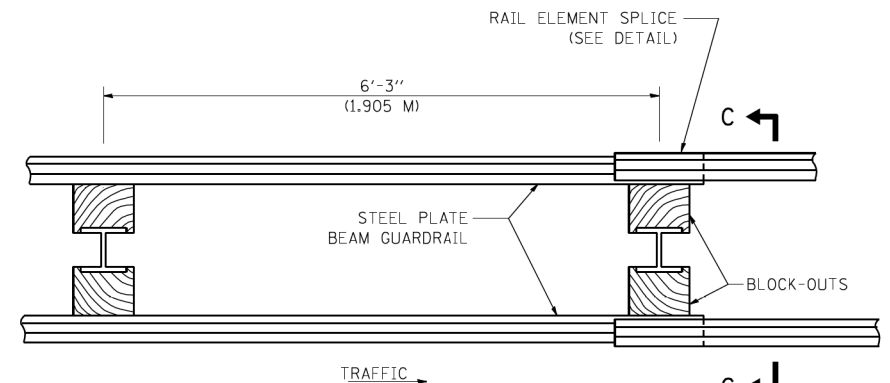
37 1/2 (953) BLOCK-OUT SPACING



SECTION C-C



SECTION B-B



PLAN

TYPE D

DOUBLE STEEL PLATE BEAM GUARDRAIL
6'-3" (1.905 M) TYPICAL POST SPACING

GENERAL NOTES

ALL SLOPE RATIOS ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

THE EXISTING STEEL POSTS MAY BE DRILLED TO MATCH THE BOLT PATTERN SHOWN HEREIN FOR THE WOOD BLOCK-OUT, OR A NEW STEEL POST SHALL BE PROVIDED.

THIS DETAIL IS APPLICABLE TO THE GUARDRAIL SYSTEM USED PRIOR TO JANUARY 1, 2007. FOR DETAILS ON THE MIDWEST GUARDRAIL SYSTEM, SEE STANDARD 630001.

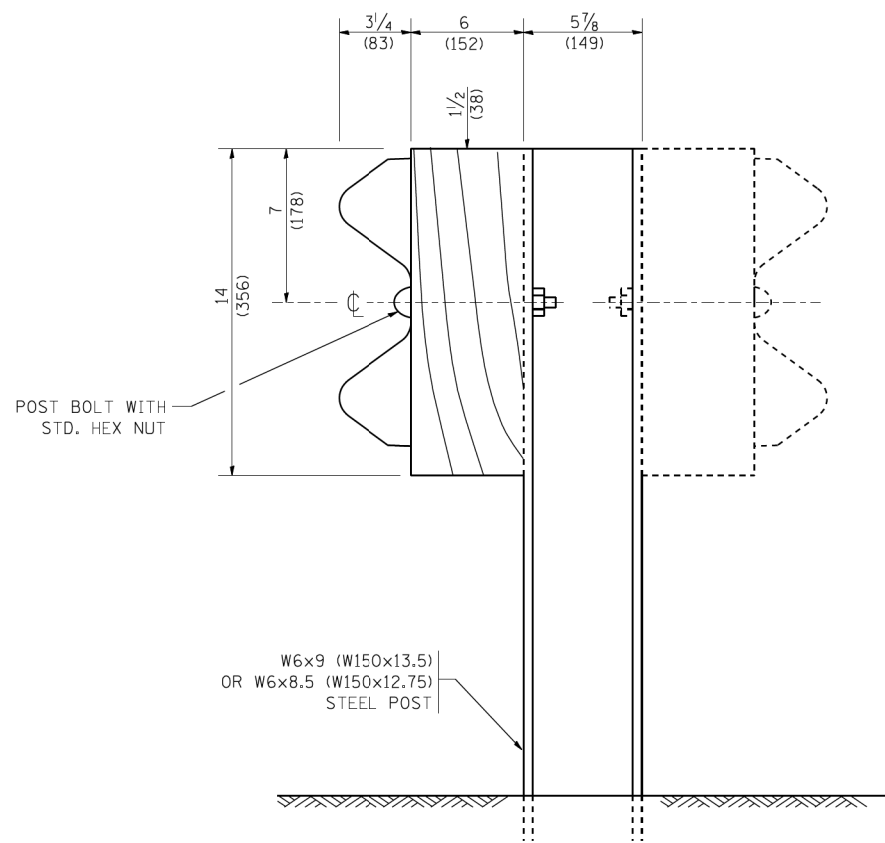
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

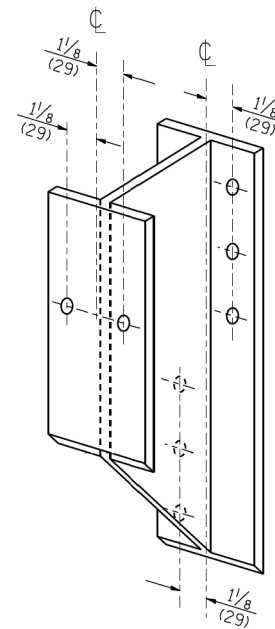
**REMOVE AND REERECT
STEEL PLATE BEAM GUARDRAIL**

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

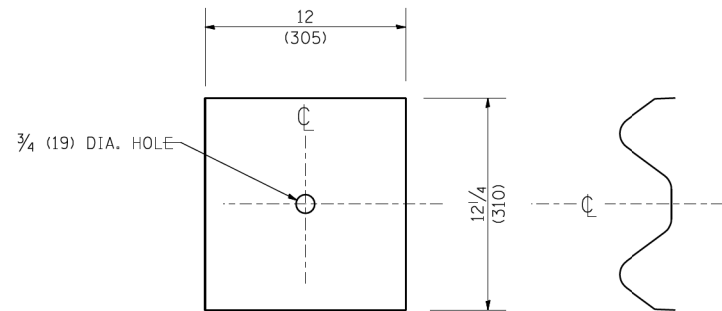
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524	14-00448-00-CH	KANE	183	163
BM-21		CONTRACT NO.	61E67	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



STEEL POST CONSTRUCTION



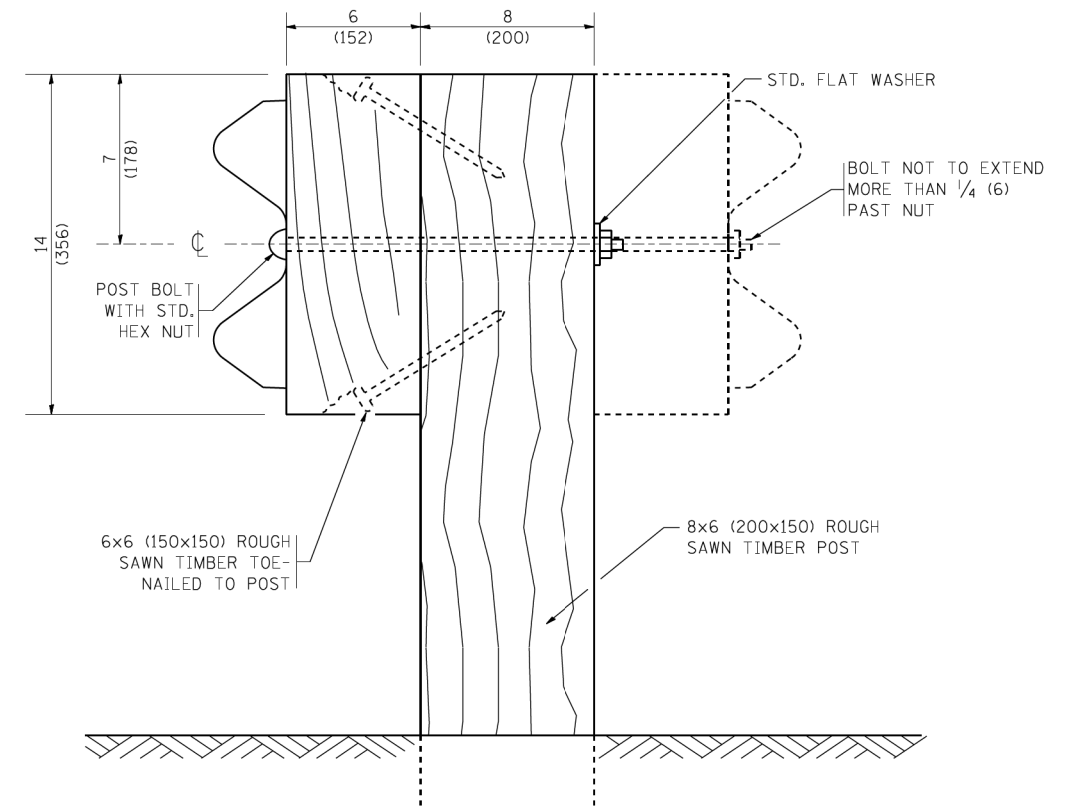
STEEL BLOCK-OUT DETAIL



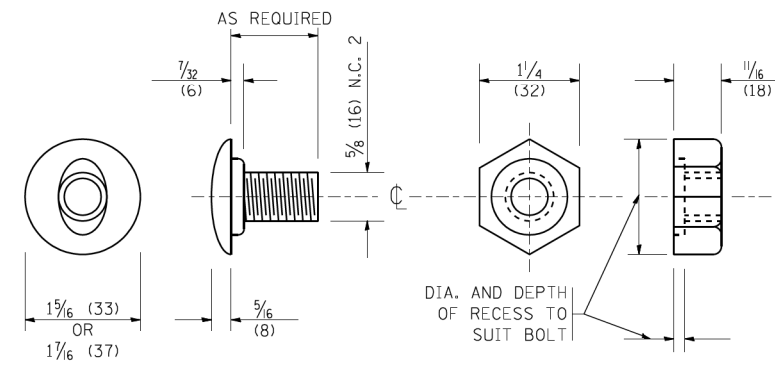
NOTE:

PLATE A SHALL BE PLACED BETWEEN RAIL ELEMENT AND BLOCK-OUT AT NON-SPLICE MOUNTING POINTS ONLY WHEN STEEL BLOCK-OUTS ARE USED.

PLATE A



WOOD POST CONSTRUCTION



POST OR SPLICE BOLT & NUT

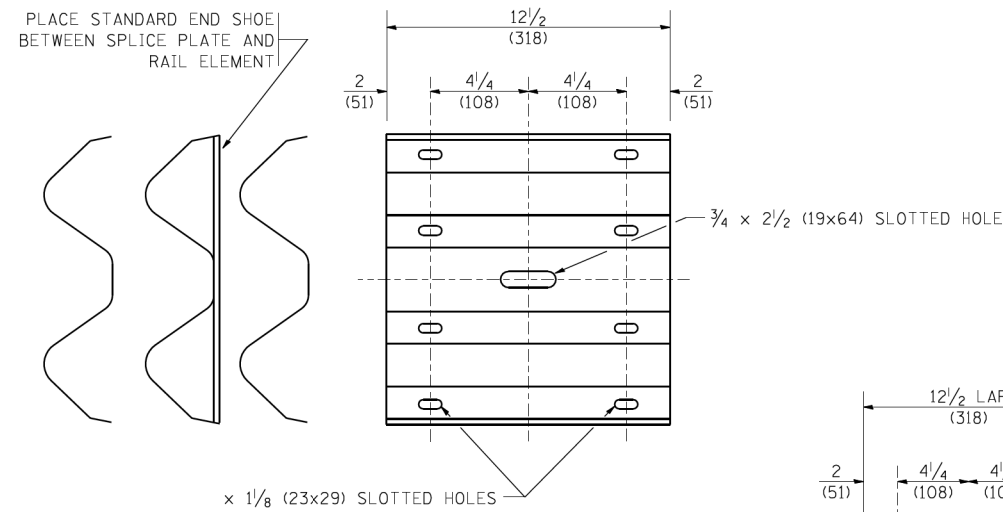
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

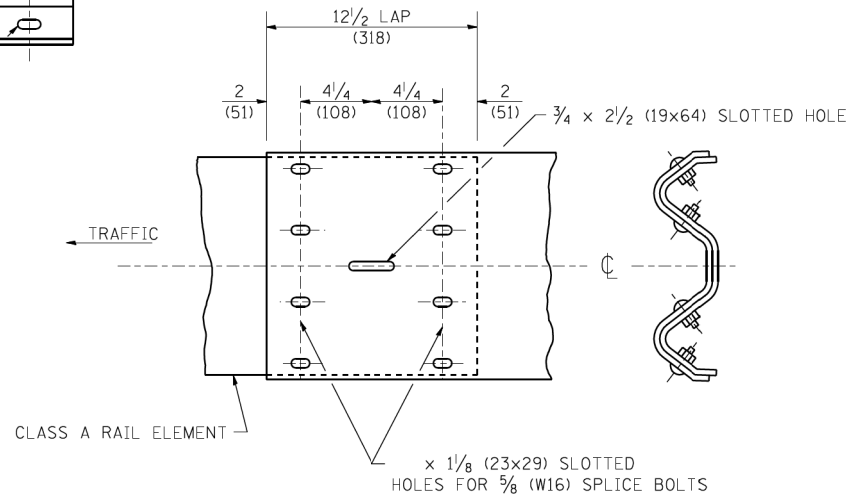
**REMOVE AND REERECT
STEEL PLATE BEAM GUARDRAIL**

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

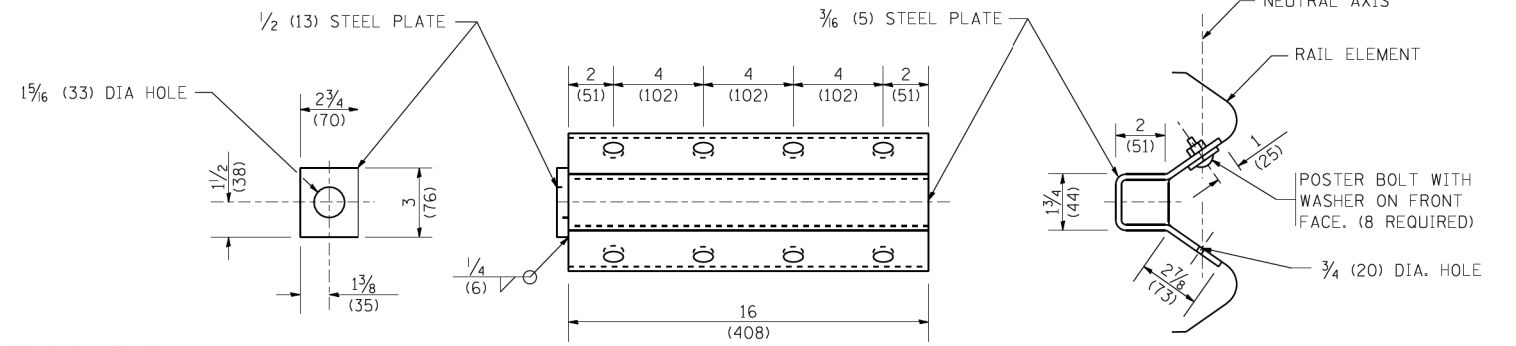
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524	14-00448-00-CH	KANE	183	164
BM-21		CONTRACT NO.	61E67	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SPLICE PLATE



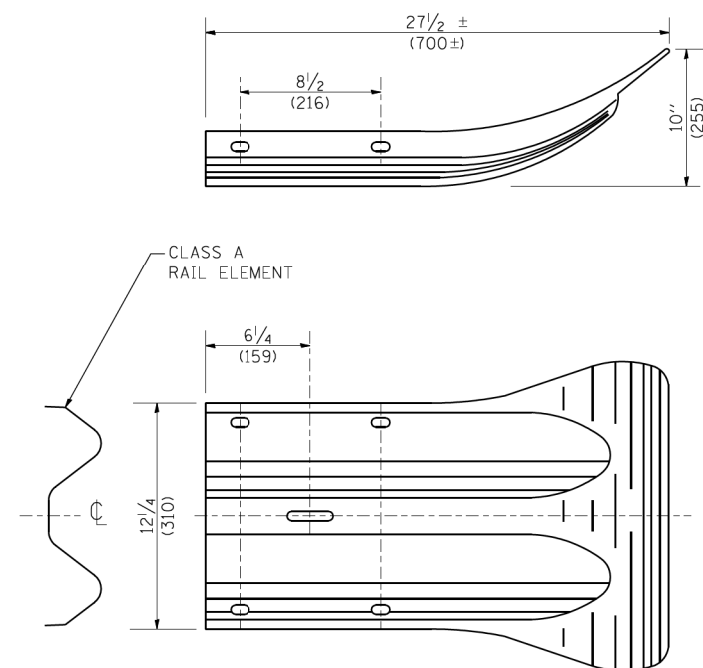
RAIL ELEMENT SPLICE



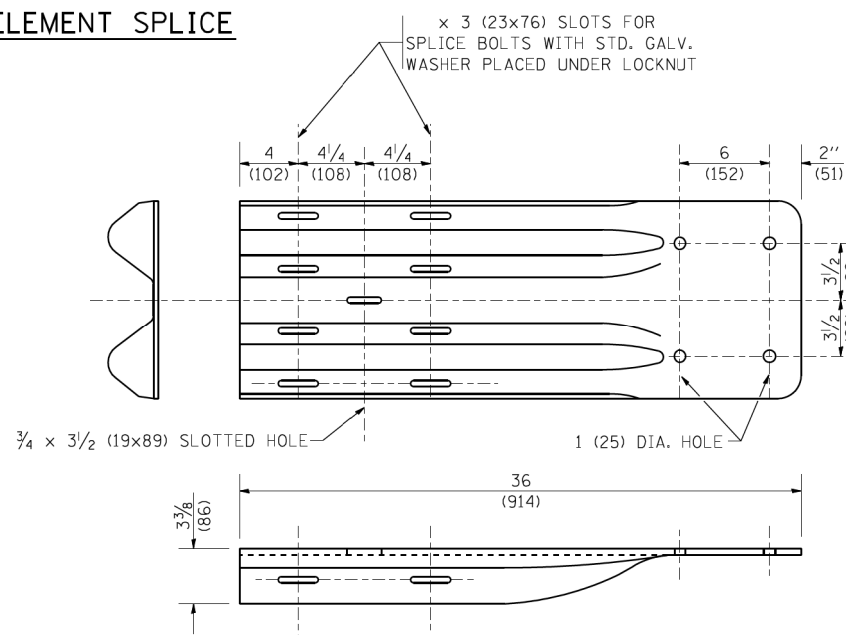
NOTE:

ANCHOR PLATE T SHALL BE USED TO ATTACH CABLE ASSEMBLY TO GUARDRAIL WHEN REQUIRED ON TRAFFIC BARRIER TERMINALS.

ANCHORE PLATE T DETAILS



END SECTION



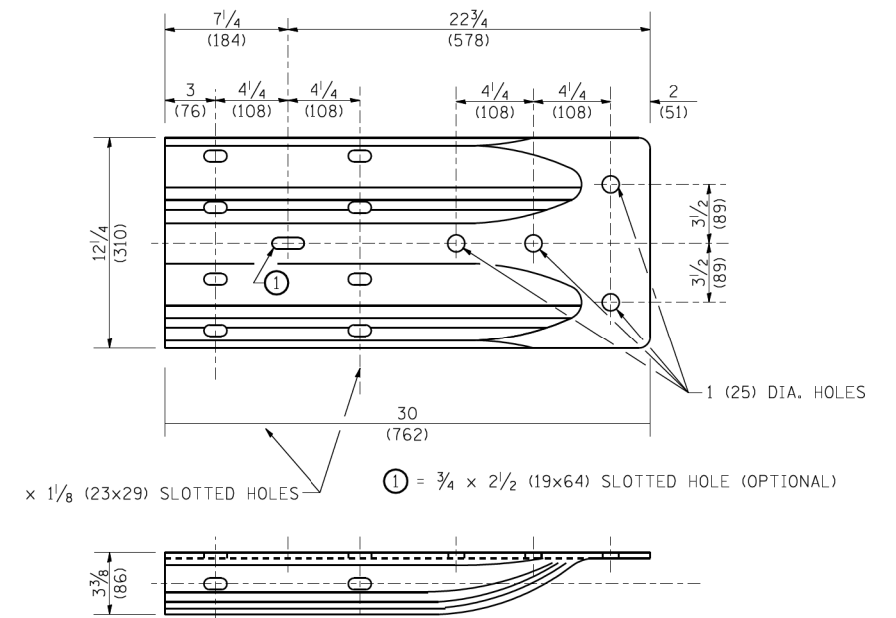
END SHOE

NOTE:

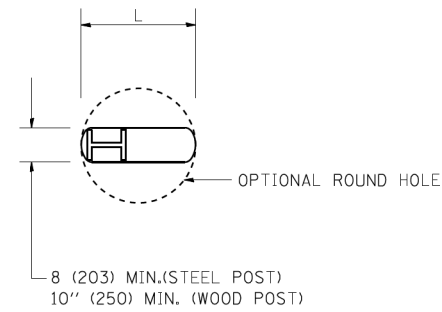
WHEN END SHOE IS ATTACHED TO A BRIDGE PARAPET WHICH HAS AN EXPANSION JOINT, THE BOLTS SHALL BE PROVIDED WITH A LOCKNUT OR DOUBLE NUT AND SHALL BE TIGHTENED ONLY TO A POINT THAT WILL ALLOW GUARDRAIL MOVEMENT.

THE STANDARD END SHOE SHALL BE ATTACHED TO THE CONCRETE WITH PRE-DRILLED OR SELF-DRILLING ANCHOR BOLTS. THE ANCHOR CONE SHALL BE SET FLUSH WITH THE SURFACE OF THE CONCRETE.

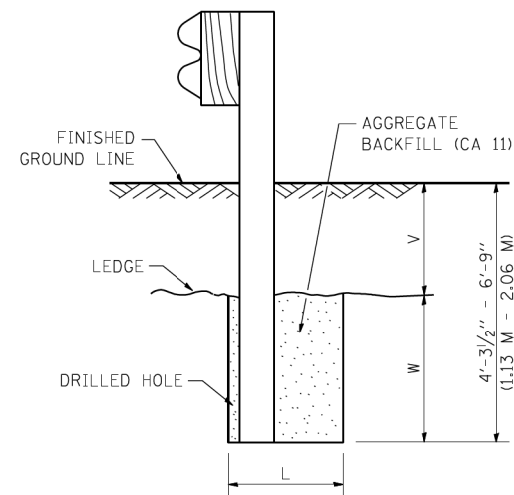
EXTERNALLY THREADED STUDS PROTRUDING FROM THE SURFACE OF THE CONCRETE WILL NOT BE PERMITTED.



ALTERNATE END SHOE



PLAN

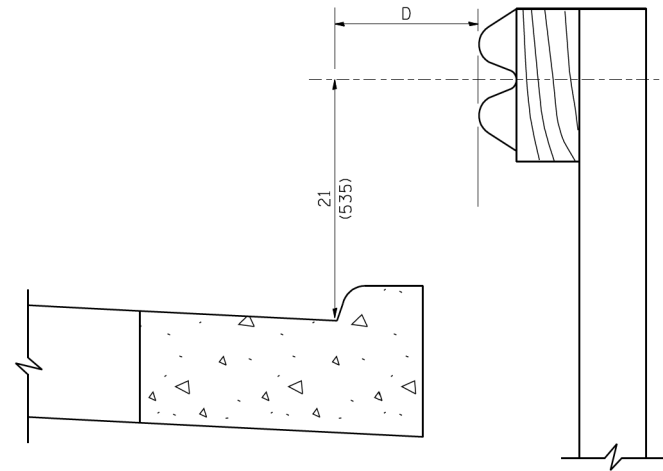


NOTE:

LEDGE LINE IS TOP OF ROCK
LEDGE OR HARD SLAG FILL.

ELEVATION

**FOOTING FOR POST WHEN IMPERVIOUS
MATERIAL IS ENCOUNTERED**



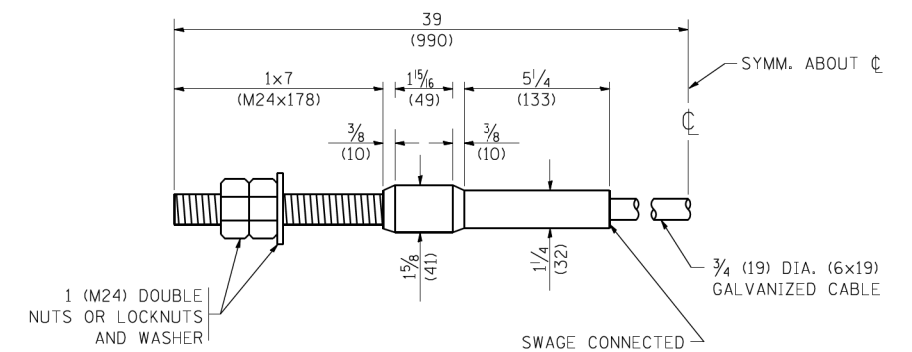
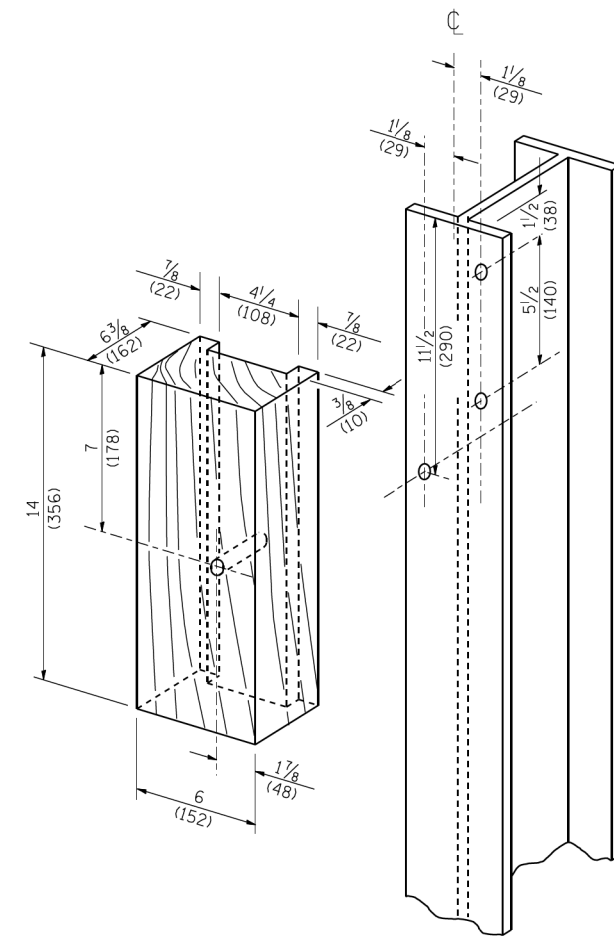
NOTE:

IF IT IS NECESSARY FOR D TO BE MORE THAN 12 (300) AND
LESS THAN 10'-0" (3.0 M) TYPE M-2 (M-5) CURB AND GUTTER
(STD. 60600) SHALL BE USED IN FRONT OF AND IN ADVANCE
OF THE GUARDRAIL.

GUARDRAIL PLACED BEHIND CURB

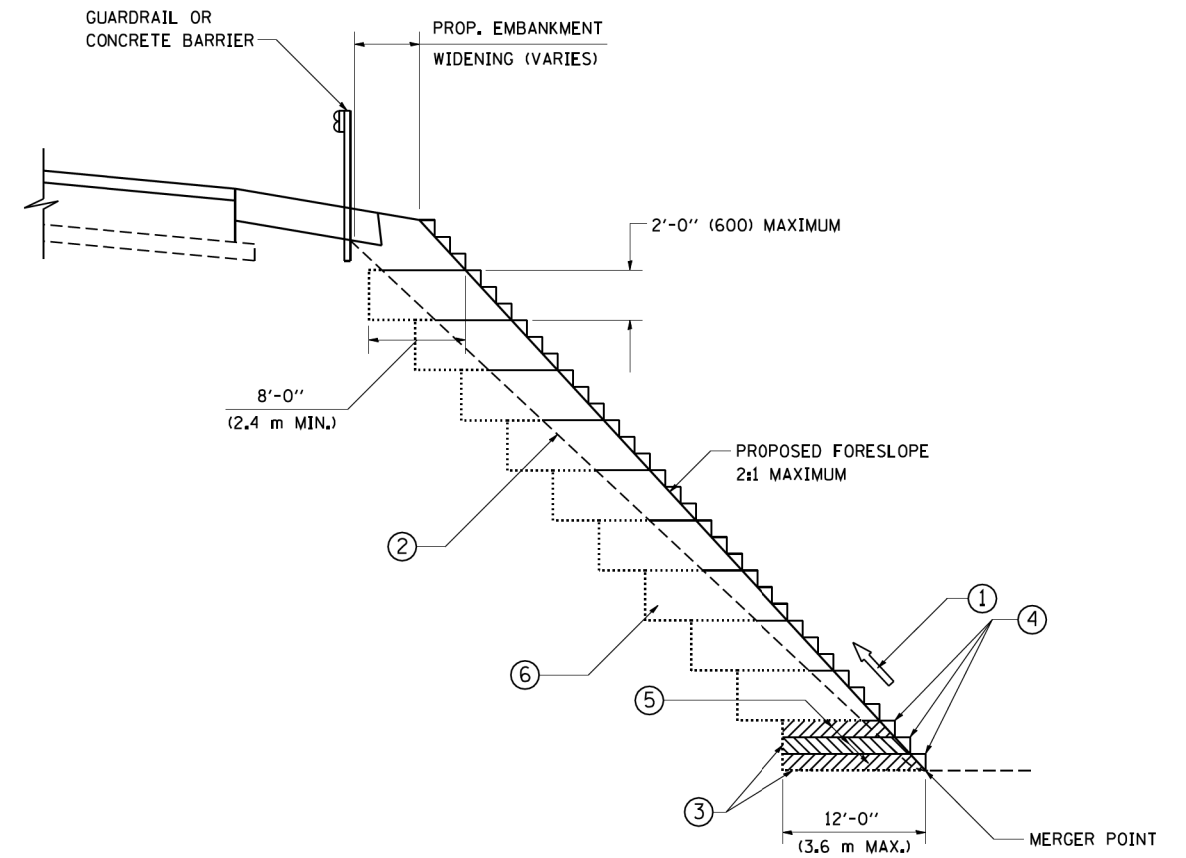
(D = 0 DESIRABLE TO 12 (300) MAXIMUM)

V	W	L	
		STEEL POST	WOOD POST
0 - 18 (0 - 460)	24 (610)	21 (530)	23 (580)
>18 - 41.5 (> 460 - 825)	12 (305)	8 (203)	10 (250)
>41.5 - 53.5 (> 825 - 1.13 M)	12 - 0 (350 - 0)	8 (203)	10 (250)



CABLE ASSEMBLY

(40,000 LBS (18,100 KG) MIN. BREAKING STRENGTH)
TIGHTEN TO TAUT TENSION



**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

NOTES:

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\bd51.dgn	USER NAME = gajjard@stateil.gov	DESIGNED - DRAWN - CADD	REVISED - REVISED -
	PLOT SCALE = 50.0000' / IN.	CHECKED - S.E.B.	REVISED - REVISED -
	PLOT DATE = 1/4/2008	DATE - 06-16-04	REVISED - REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BENCHING DETAIL FOR EMBANKMENT WIDENING			
SCALE: NONE	SHEET NO. 7	OF 7 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	167
BD-51		CONTRACT NO. 61E67		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

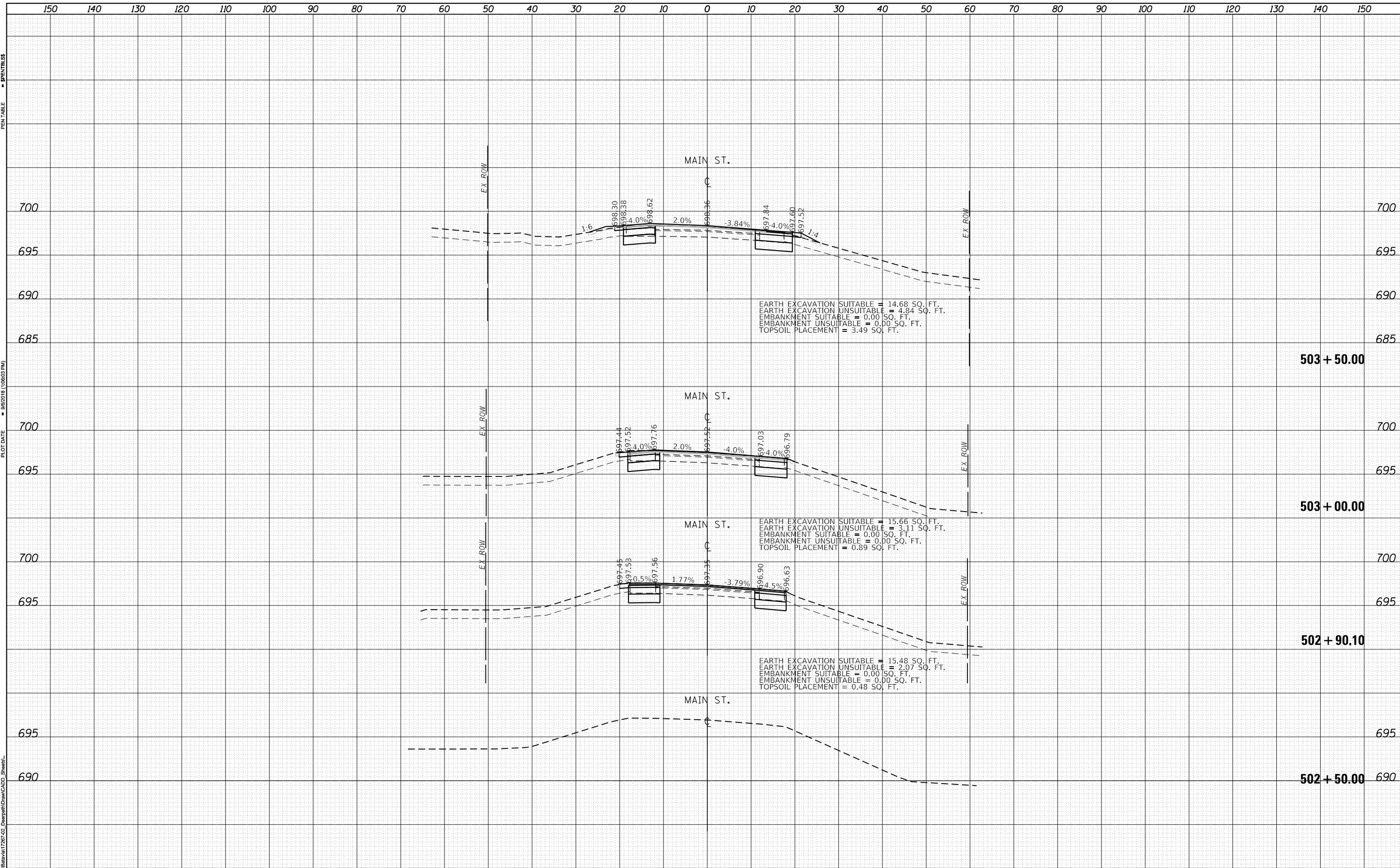
DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED TEMPLATE	
AREAS CHECKED	
NO.	

PLOT DRIVER = SPLDRVRS
PEN TABLE = SPENTBLE

PLOT SCALE = 20.0000 / in.
PLOT DATE = 9/6/2018 (10:03:03 PM)

USER NAME = Brad Foltch
DIRECTORY = L:\s\1728\28-02_Deerpath\Draw\CADD_Sheets\



FILE NAME = D1M4003-Xs_Pr_Main.dgn	DESIGNED - BRF	REVISED -
MODEL NAME = sht-xsst-temporary_model_name_1	DRAWN - ERD	REVISED -
PLOT SCALE = 20.0000 / in.	CHECKED - JWD	REVISED -
PLOT DATE = 9/6/2018	DATE - 9/7/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
MAIN ST

SCALE: SHEET 1 OF 16 SHEETS STA. 502+50.00 TO STA. 503+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	168
CONTRACT NO. 61E67				
ILLINOIS FED. AID PROJECT				

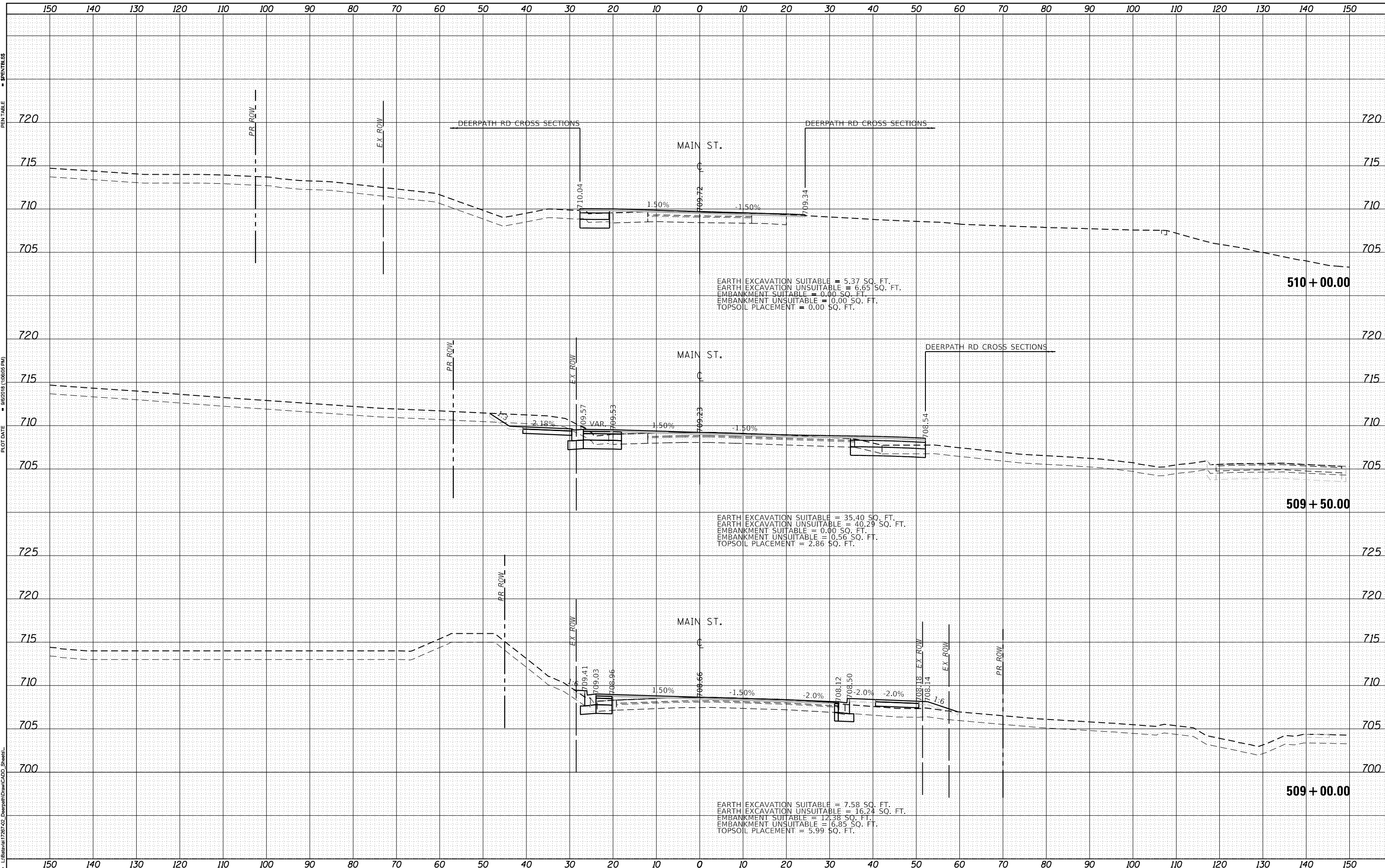
DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	
NO.	

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

PLOT DRIVER = BPLDRVRS
PEN TABLE = BENTABLES

PLOT SCALE = 20.0000' / in.
PLOT DATE = 9/6/2018 (10:05:56 PM)

USER NAME = Brad Foltz
DIRECTORY = L:\bpldrv\1726-02_Deerpath\Draw\CADD_Sheets\..



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PLOT SCALE = 20.0000' / in.	CHECKED - JWD	REVISED -
PLOT DATE = 9/6/2018	DATE - 9/7/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

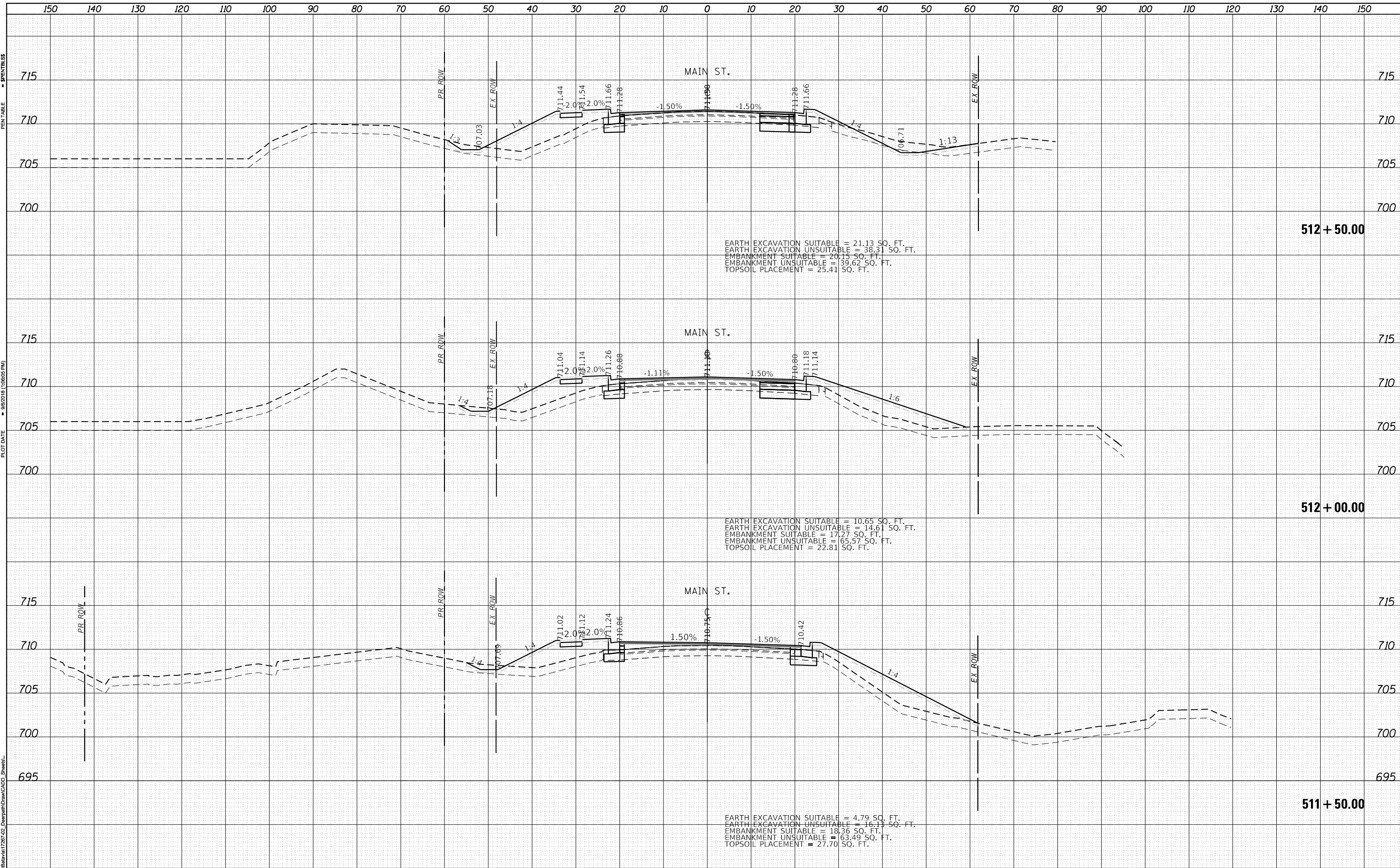
CROSS SECTIONS MAIN ST	
SCALE:	SHEET 6 OF 16 SHEETS STA. 509+00.00 TO STA. 510+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	173
CONTRACT NO. 61E67			ILLINOIS FED. AID PROJECT	

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

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

PLOT DRIVER = SPLDRVRS
 PEN TABLE = SPENTBLSS
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 9/6/2018 (10:06:56 PM)
 USER NAME = Brad Foltz
 DIRECTORY = L:\881681728\28-02_Deerpath\Draw\CADD_Sheets\



EARTH EXCAVATION SUITABLE = 21.13 SQ. FT.
 EARTH EXCAVATION UNSUITABLE = 38.31 SQ. FT.
 EMBANKMENT SUITABLE = 20.15 SQ. FT.
 EMBANKMENT UNSUITABLE = 139.62 SQ. FT.
 TOPSOIL PLACEMENT = 25.41 SQ. FT.

EARTH EXCAVATION SUITABLE = 10.65 SQ. FT.
 EARTH EXCAVATION UNSUITABLE = 14.61 SQ. FT.
 EMBANKMENT SUITABLE = 17.27 SQ. FT.
 EMBANKMENT UNSUITABLE = 65.57 SQ. FT.
 TOPSOIL PLACEMENT = 22.81 SQ. FT.

EARTH EXCAVATION SUITABLE = 4.79 SQ. FT.
 EARTH EXCAVATION UNSUITABLE = 16.13 SQ. FT.
 EMBANKMENT SUITABLE = 18.36 SQ. FT.
 EMBANKMENT UNSUITABLE = 63.49 SQ. FT.
 TOPSOIL PLACEMENT = 27.70 SQ. FT.



FILE NAME = D:\14003-Xs_Pr_Main.dgn	DESIGNED - BRF	REVISED -
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PLOT SCALE = 20.0000' / in.	CHECKED - JWD	REVISED -
PLOT DATE = 9/6/2018	DATE - 9/7/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
MAIN ST

SCALE: SHEET 8 OF 16 SHEETS STA. 511+50.00 TO STA. 512+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	175
CONTRACT NO. 61E67			ILLINOIS FED. AID PROJECT	

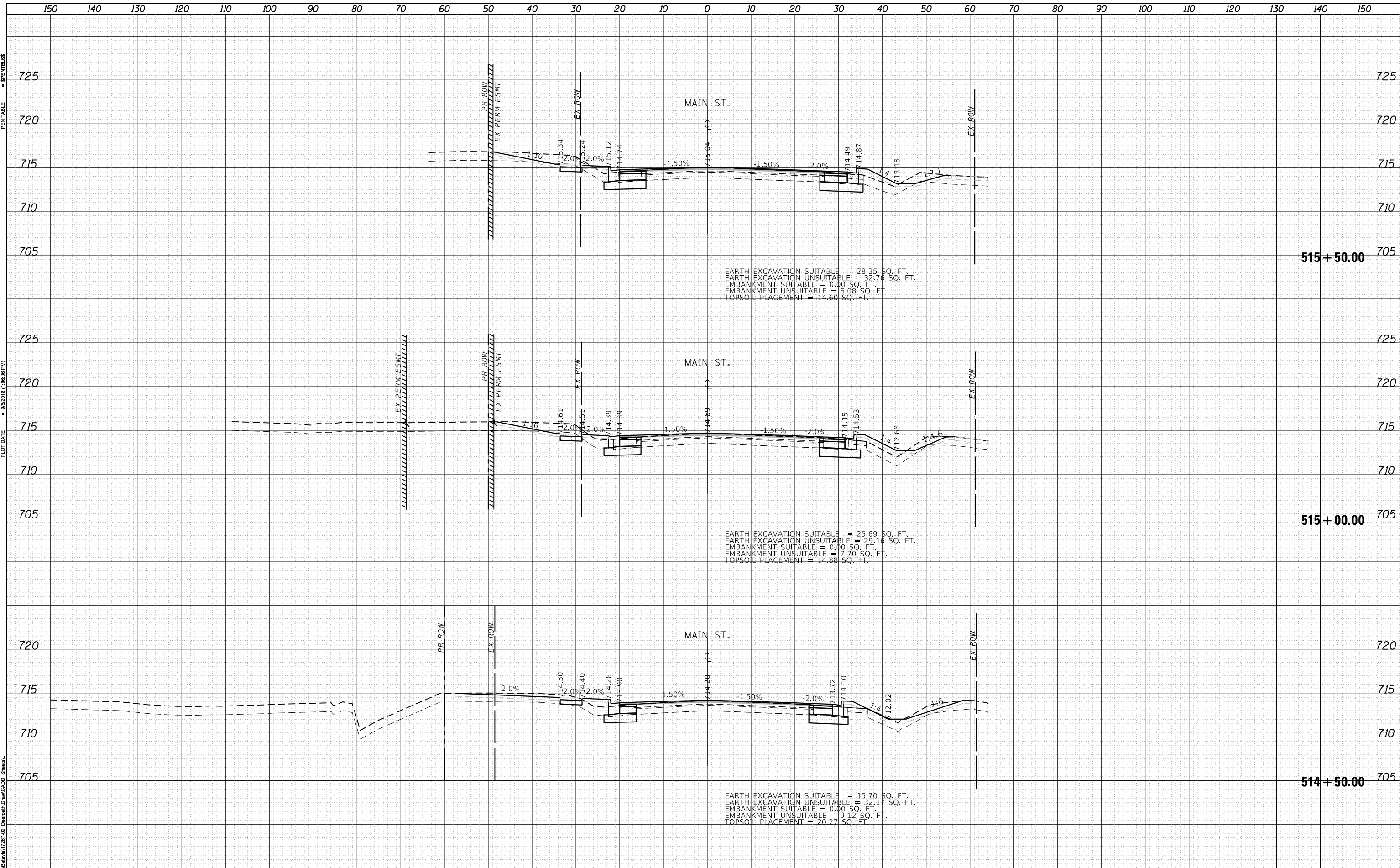
DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

FINISH SURVEY NO. _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 AREAS _____
 CHECKED _____

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

FINISH SURVEY NO. _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 AREAS _____
 CHECKED _____

PLOT DRIVER = SPLDRVRS
 PEN TABLE = PENTABLE
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 9/6/2018 (3:06:06 PM)



EARTH EXCAVATION SUITABLE = 28.35 SQ. FT.
 EARTH EXCAVATION UNSUITABLE = 32.76 SQ. FT.
 EMBANKMENT SUITABLE = 0.00 SQ. FT.
 EMBANKMENT UNSUITABLE = 6.08 SQ. FT.
 TOPSOIL PLACEMENT = 14.60 SQ. FT.

EARTH EXCAVATION SUITABLE = 25.69 SQ. FT.
 EARTH EXCAVATION UNSUITABLE = 29.16 SQ. FT.
 EMBANKMENT SUITABLE = 0.00 SQ. FT.
 EMBANKMENT UNSUITABLE = 7.70 SQ. FT.
 TOPSOIL PLACEMENT = 14.88 SQ. FT.

EARTH EXCAVATION SUITABLE = 15.70 SQ. FT.
 EARTH EXCAVATION UNSUITABLE = 32.17 SQ. FT.
 EMBANKMENT SUITABLE = 0.00 SQ. FT.
 EMBANKMENT UNSUITABLE = 9.12 SQ. FT.
 TOPSOIL PLACEMENT = 20.27 SQ. FT.

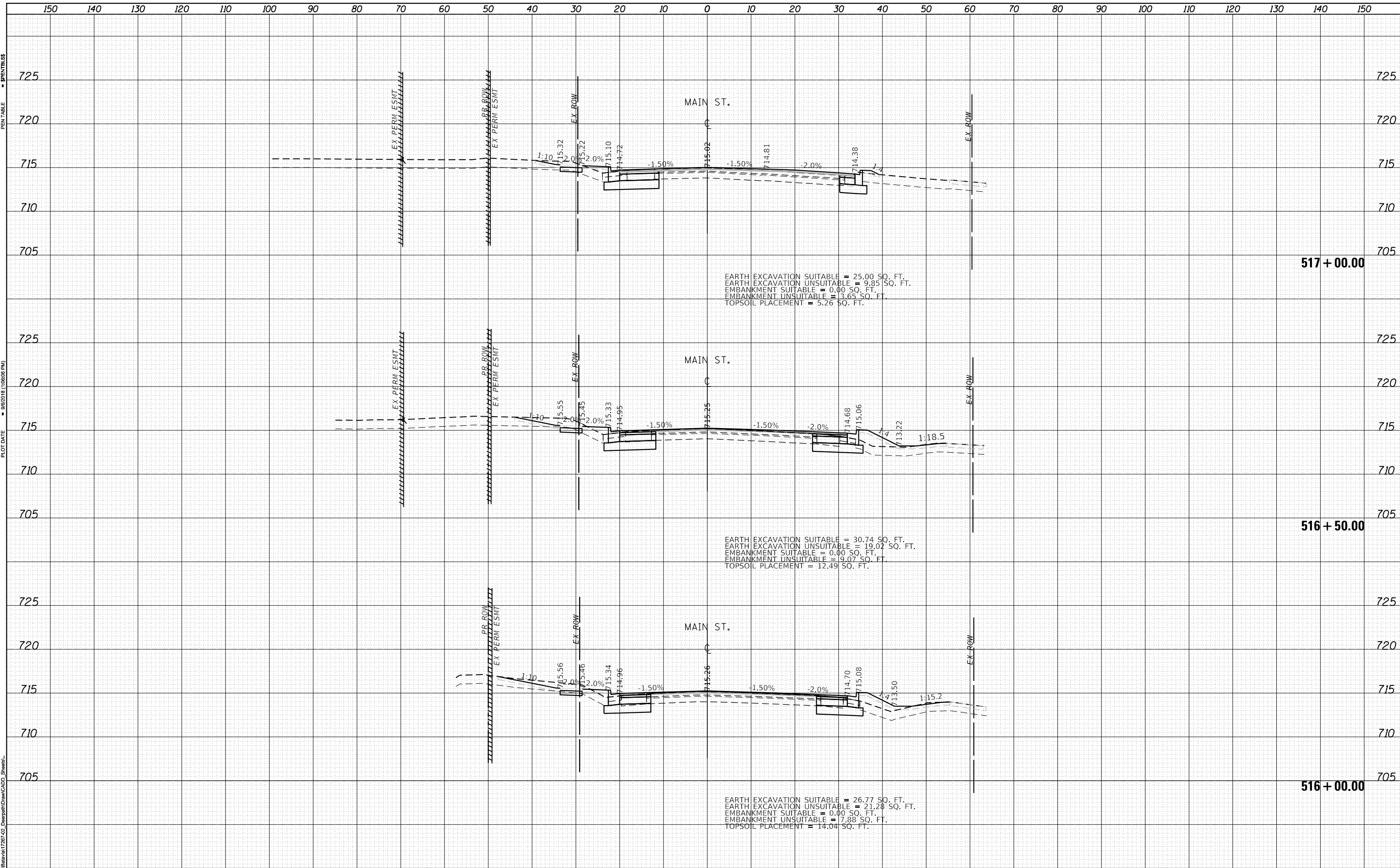
DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
AREAS CHECKED	
NO.	

FINISHED SURVEY
PLOTTED TEMPLATE
AREAS CHECKED
NO.

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED TEMPLATE	
AREAS CHECKED	
NO.	

ORIGINAL SURVEY
PLOTTED TEMPLATE
AREAS CHECKED
NO.

PLOT DRIVER = BPLDRVR3S
PEN TABLE = BENTABLES
PLOT SCALE = 20.0000' / in.
PLOT DATE = 9/6/2018 (3:06:06 PM)



FILE NAME = D1M4003-Xs_Pr_Main.dgn
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 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 9/6/2018

DESIGNED - BRF
 DRAWN - ERD
 CHECKED - JWD
 DATE - 9/7/2018

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 MAIN ST
 SCALE: SHEET 11 OF 16 SHEETS STA. 516+00.00 TO STA. 517+00.00

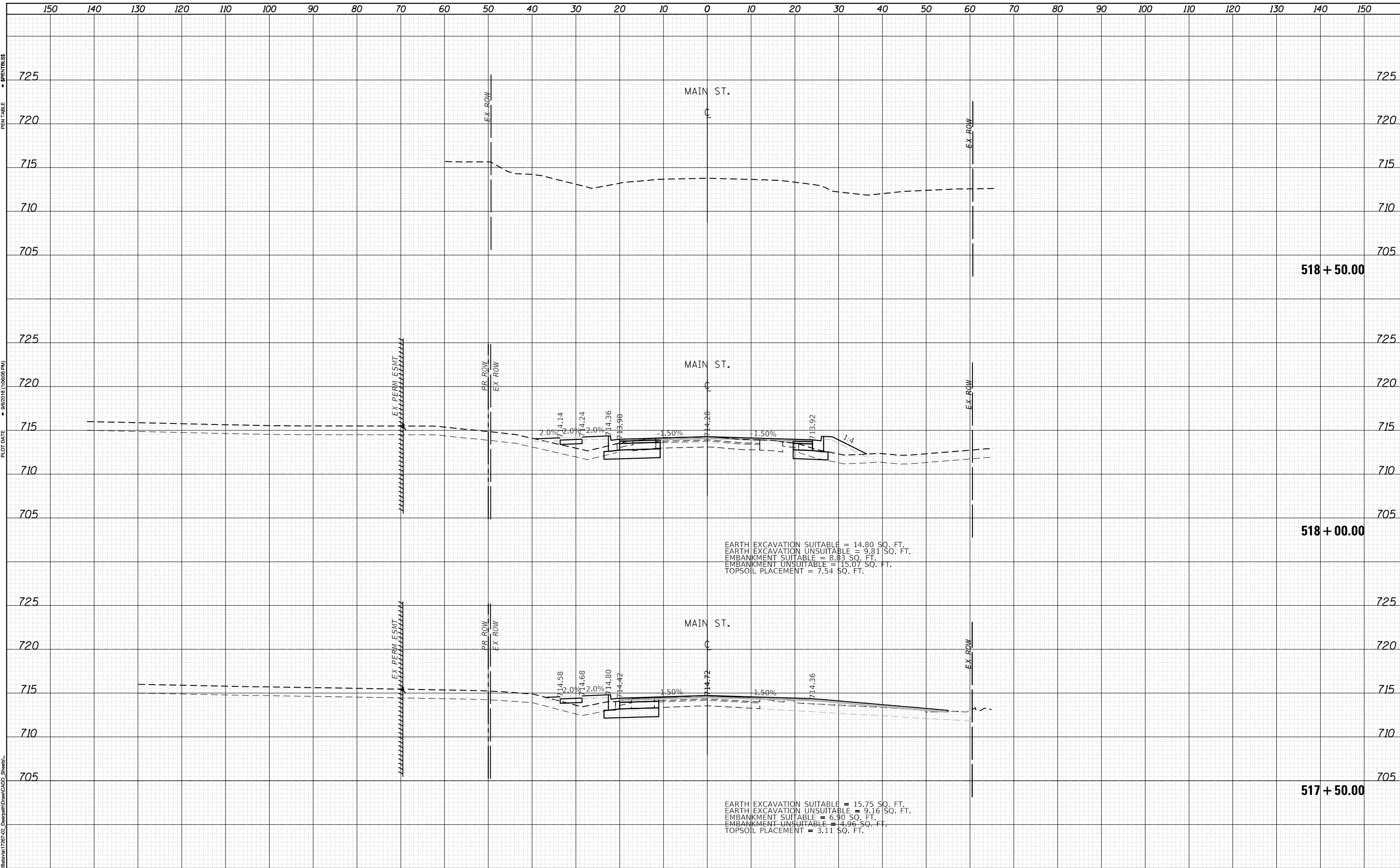
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	178
CONTRACT NO.			61E67	
ILLINOIS FED. AID PROJECT				

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

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

PLOT DRIVER = SPLDRVR3S
 PEN TABLE = SPENTIBLES
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 9/6/2018 (10:06:06 PM)

USER NAME = Brad Folsch
 DIRECTORY = L:\881681728-02_Design\Draw\CADD_Sheets\



FILE NAME =	D:\144003-Xs_Pr_Main.dgn	DESIGNED -	BRF	REVISED -	
MODEL NAME =	sht-xsst-temporary_model_name_12	DRAWN -	ERD	REVISED -	
PLOT SCALE =	20.0000' / in.	CHECKED -	JWD	REVISED -	
PLOT DATE =	9/6/2018	DATE -	9/7/2018	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 MAIN ST**

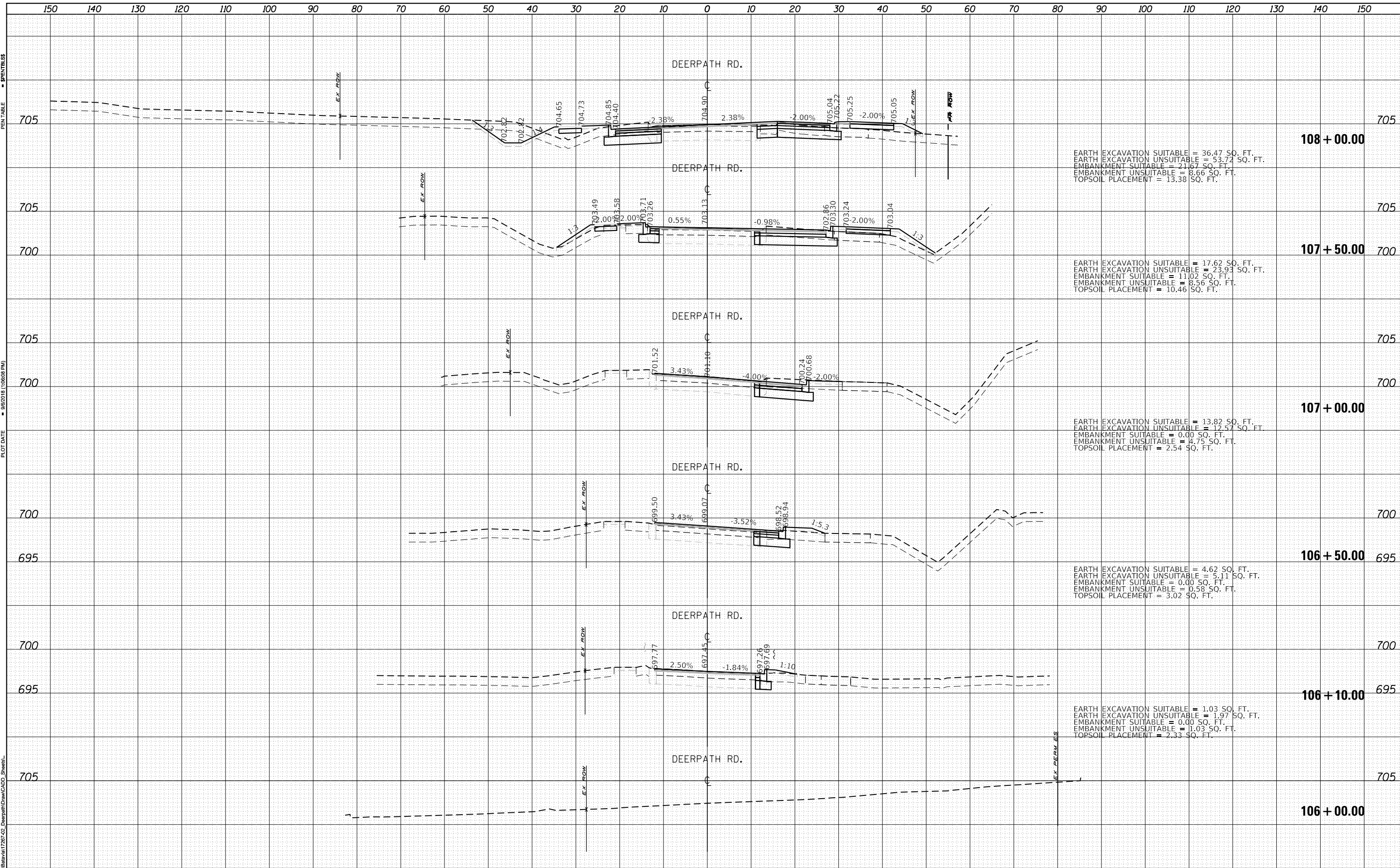
SCALE: SHEET 12 OF 16 SHEETS STA. 517+50.00 TO STA. 518+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	179
CONTRACT NO.			61E67	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED TEMPLATE	
AREAS CHECKED	
NO.	

PLOT DRIVER = SPLDRVRS
 PEN TABLE = SPENTBLSS
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 9/6/2018 (10:08:38 PM)
 USER NAME = Brad Foltz
 DIRECTORY = L:\sbsrv\1728-25-02_Deerpath\Draw\CADD_Sheets\



FILE NAME = D1M4003-Xs_Pr_Deerpath.dgn	DESIGNED - BRF	REVISED -
MODEL NAME = sht-xssht-temporary_model_name_1	DRAWN - ERD	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JWD	REVISED -
PLOT DATE = 9/6/2018	DATE - 9/7/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
DEERPETH RD

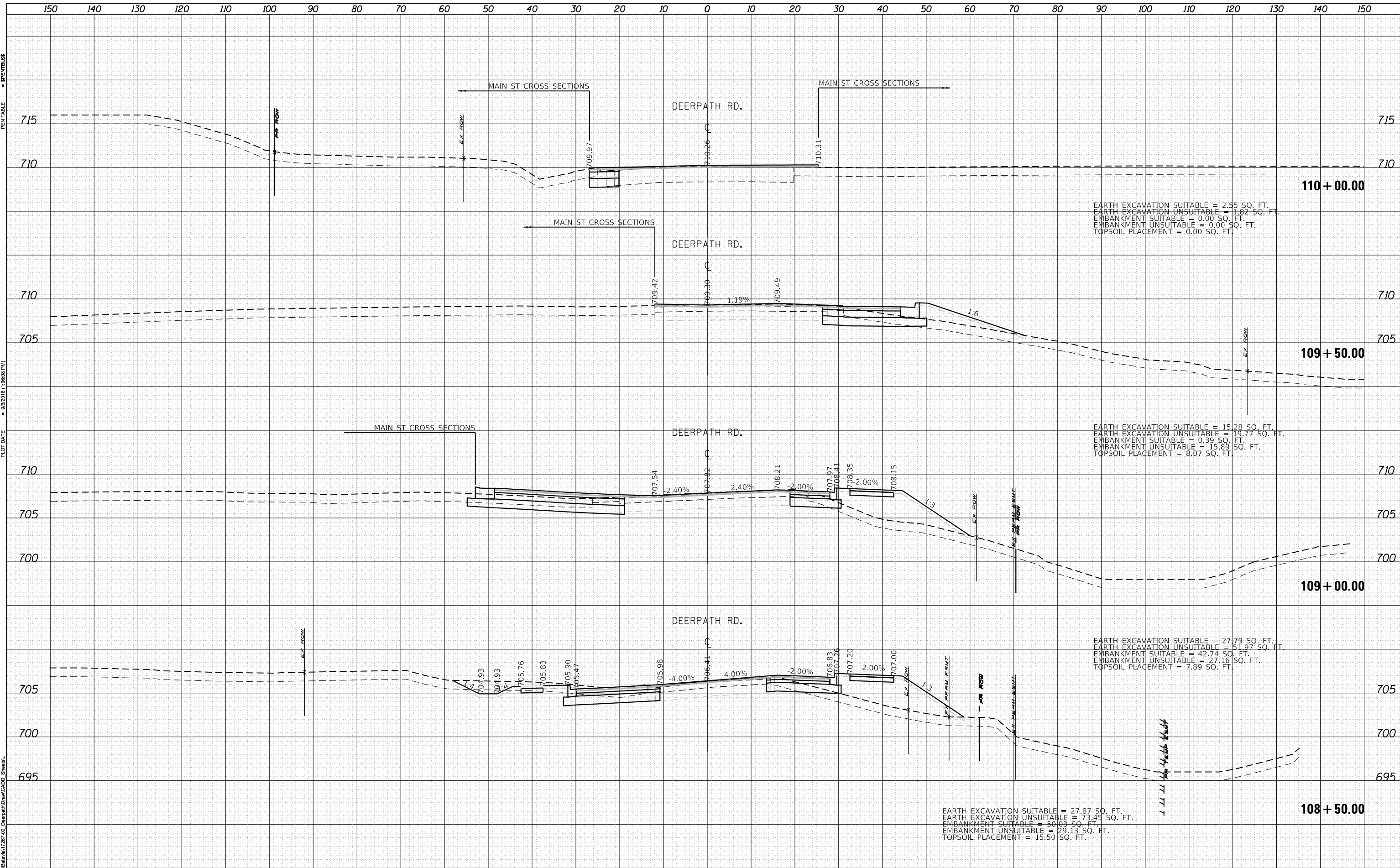
SCALE: SHEET 13 OF 16 SHEETS STA. 100+00.00 TO STA. 108+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	180
CONTRACT NO. 61E67			ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINISHED	
NO. OF SHEETS	
DATE	
BY	
FINISHED	
NO. OF SHEETS	
DATE	
BY	
FINISHED	
NO. OF SHEETS	

DATE	
BY	
FINISHED	
NO. OF SHEETS	
DATE	
BY	
FINISHED	
NO. OF SHEETS	
DATE	
BY	
FINISHED	
NO. OF SHEETS	

PLOT DRIVER = SPLDRVRS
 PEN TABLE = SPENTBLSS
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 9/6/2018 (10:08:36 PM)
 USER NAME = Brad Folsch
 DIRECTORY = L:\sbs\1728-25-02_Deerpath\Draw\CADD_Sheets\



FILE NAME = D1M4003-Xs_Pr_Deerpath.dgn	DESIGNED - BRF	REVISED -
MODEL NAME = sht-xssht-temporary_model_name_2	DRAWN - ERD	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JWD	REVISED -
PLOT DATE = 9/6/2018	DATE - 9/7/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
DEERPETH RD

SCALE: SHEET 14 OF 16 SHEETS STA. 108+50.00 TO STA. 110+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	181
CONTRACT NO.			61E67	
ILLINOIS FED. AID PROJECT				

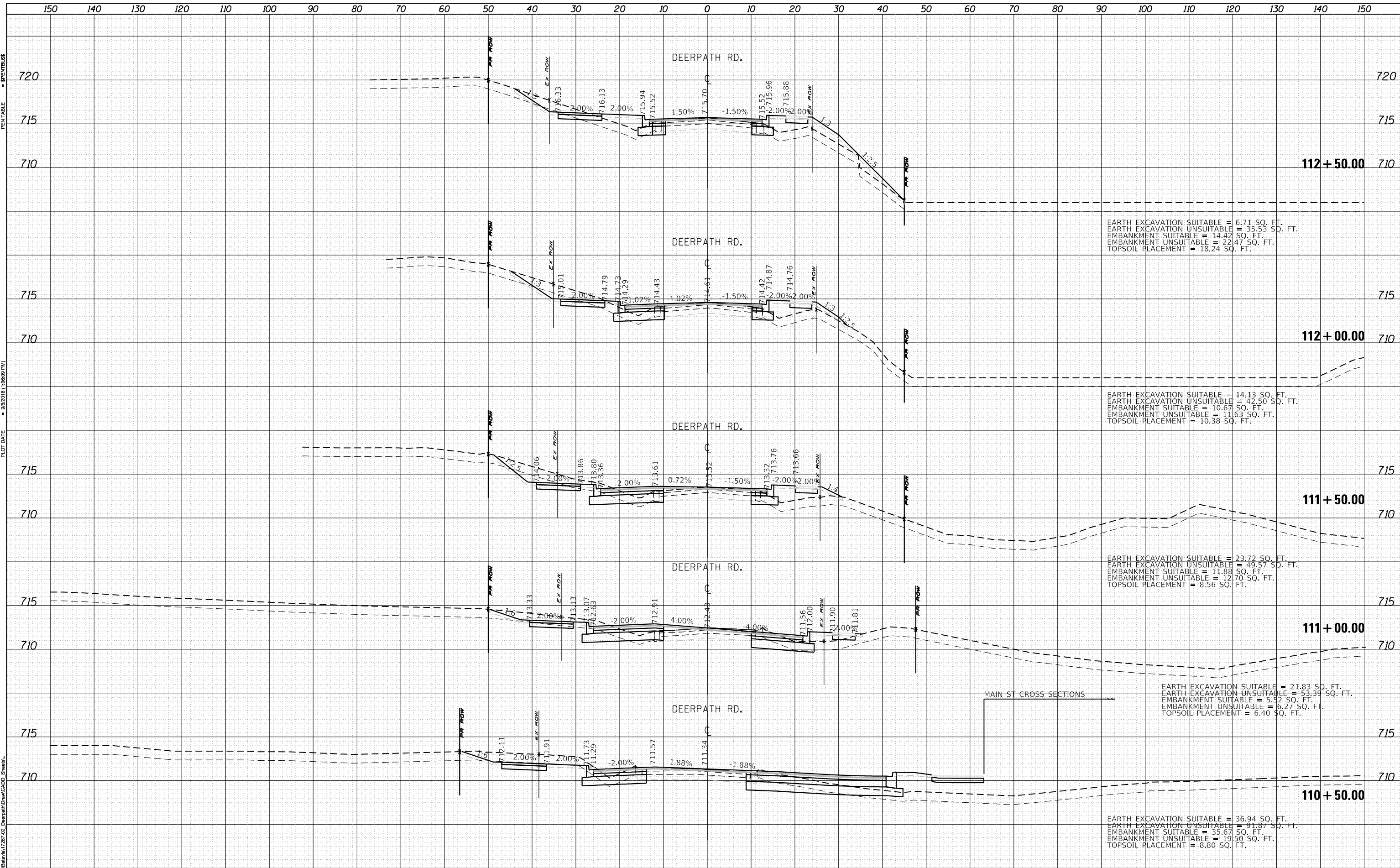
DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

PLOT DRIVER = SPLDRVRS
PEN TABLE = SPENTBLSS

PLOT SCALE = 20.0000' / in.
PLOT DATE = 9/6/2018 (10:06:05 PM)

USER NAME = L:\b\1728-02_Deerpath\Draw\CADD_Sheets\...
DIRECTOR



FILE NAME = D:\144003-Xs_Pr_Deerpath.dgn	DESIGNED - BRF	REVISED -
MODEL NAME = sht-xsst-temporary_model_name_3	DRAWN - ERD	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JWD	REVISED -
PLOT DATE = 9/6/2018	DATE - 9/7/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
DEERPETH RD**

SCALE: SHEET 15 OF 16 SHEETS STA. 110+50.00 TO STA. 112+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
524	14-00448-00-CH	KANE	183	182
				CONTRACT NO. 61E67
ILLINOIS FED. AID PROJECT				

