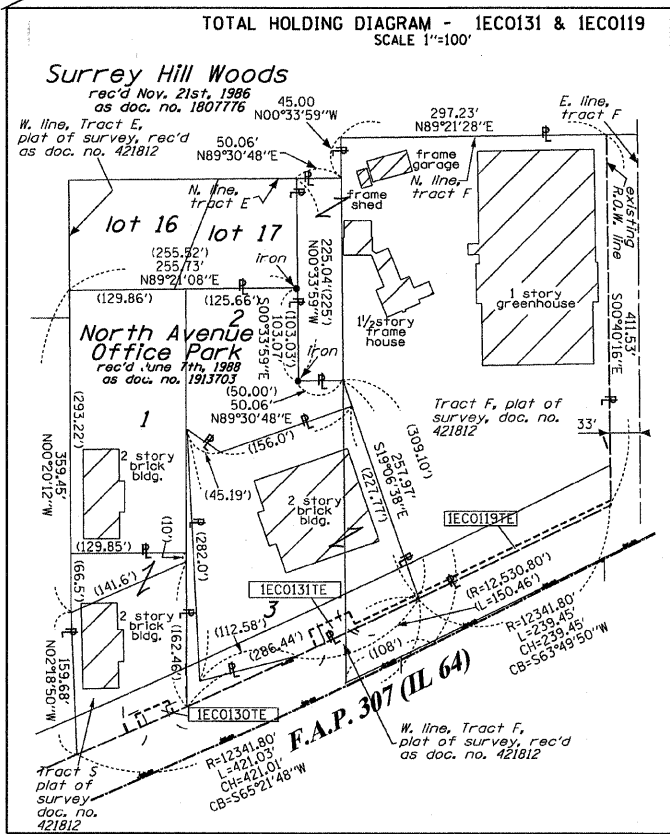
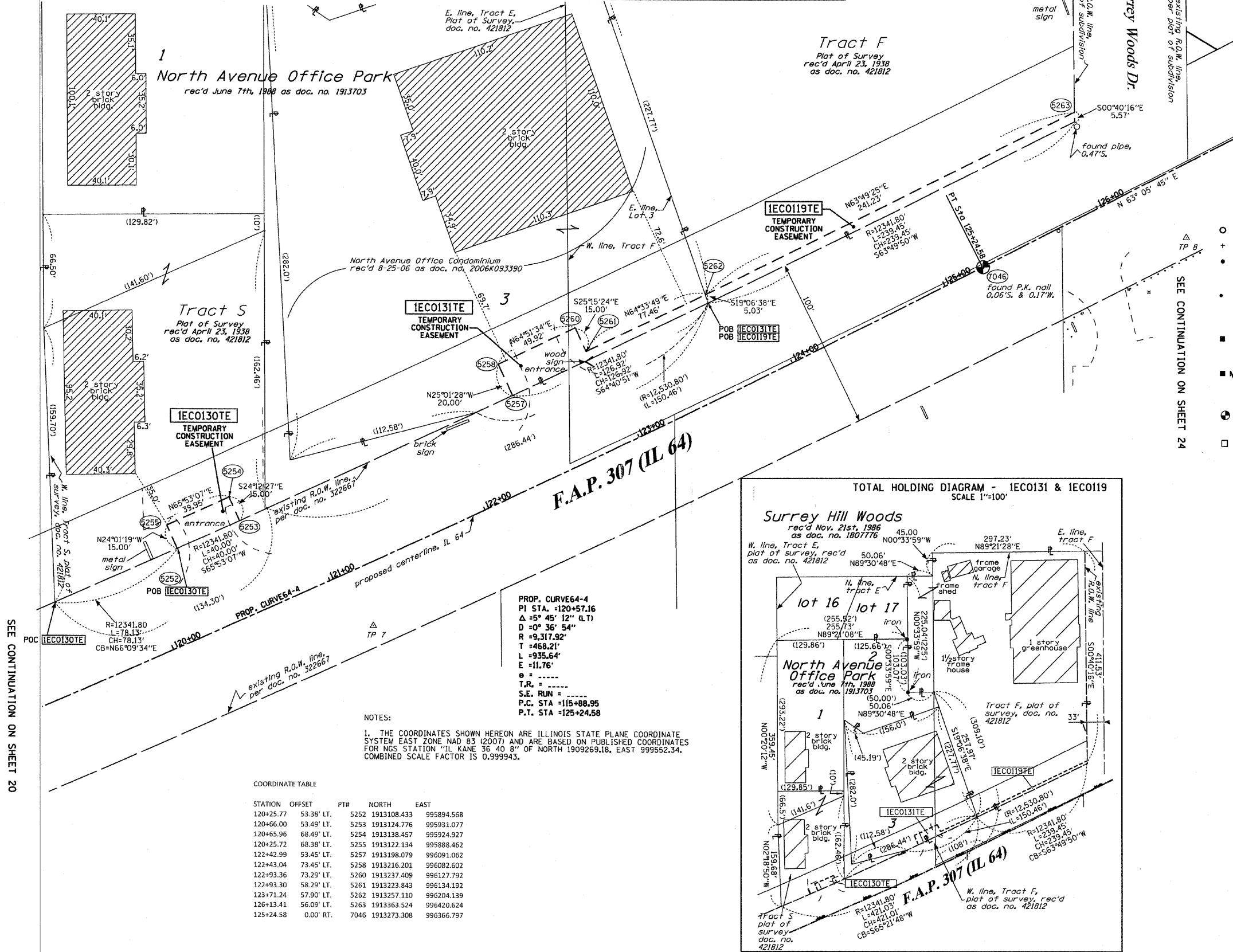


PART OF THE SE 1/4 OF SECTION 26, TWP. 40 N., R. 8 E. OF THE 3RD. P.M., IN KANE COUNTY, ILLINOIS.

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT ACRES	AREA SQUARE FEET	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
IECO119	SCHROCK FAMILY, LLC	3.292	N/A	N/A	3.292	0.030	N/A	CONST.	09-26-401-008	
IECO130	MURA, LLC	0.580	N/A	N/A	0.580	0.014	N/A	CONST.	09-26-401-002 09-26-401-004	
IECO131	NORTH AVENUE OFFICE CONDO. ASSOC.	1.259	N/A	N/A	1.259	0.032	N/A	CONST.	09-26-401-017 thru -024 09-26-401-026 thru -027 09-26-401-029 thru -032	



PROP. CURVE 64-4
 PI STA. = 120+57.16
 Δ = 5° 45' 12" (LT)
 D = 0° 36' 54"
 R = 9,317.92'
 T = 468.21'
 L = 935.64'
 E = 11.76'
 θ = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA = 115+88.95
 P.T. STA = 125+24.58

NOTES:
 1. THE COORDINATES SHOWN HEREON ARE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, NAD 83 (2007) AND ARE BASED ON PUBLISHED COORDINATES FOR NGS STATION "IL KANE 36 40 8" OF NORTH 1909269.18, EAST 999552.34, COMBINED SCALE FACTOR IS 0.999943.

COORDINATE TABLE

STATION	OFFSET	PT#	NORTH	EAST
120+25.77	53.38' LT.	5252	1913108.433	995894.568
120+66.00	53.49' LT.	5253	1913124.776	995931.077
120+65.96	68.49' LT.	5254	1913138.457	995924.927
120+25.72	68.38' LT.	5255	1913122.134	995888.462
122+42.99	53.45' LT.	5257	1913198.079	996091.062
122+43.04	73.45' LT.	5258	1913216.201	996082.602
122+93.36	73.29' LT.	5260	1913237.409	996127.792
122+93.30	58.29' LT.	5261	1913223.843	996134.192
123+71.24	57.90' LT.	5262	1913257.110	996204.139
126+13.41	56.09' LT.	5263	1913363.524	996420.624
125+24.58	0.00' RT.	7046	1913273.308	996366.797

LEGEND

- SECTION CORNER
- QUARTER CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION (129.32')
- COMPUTED DIMENSION (129.32')
- RECORDED DIMENSION (129.32')
- EXISTING BUILDING

GRAPHIC SCALE
 FEET
 0 50.00
 20.00
 30.00
 SCALE: 1" = 30'

Bearings are referenced to the Illinois Coordinate System, NAD83, East Zone, as provided by the Illinois Department of Transportation.

○ IRON PIPE OR ROD FOUND
 ⊕ "MAG" NAIL SET
 + CUT CROSS FOUND OR SET
 ● 5/8" REBAR SET

T1, T2, T3 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

BT1, BT2, BT3 THESE STAKES IN CULTIVATED AREAS REFERENCE FND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

■ 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

STATE OF ILLINOIS)
 COUNTY OF WILL)

THIS IS TO CERTIFY THAT I, RONALD F. HODGEN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, (WE, RUETTIGER, TONELLI & ASSOCIATES, AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 89,) HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 26, TOWNSHIP 40 NORTH, RANGE 8 EAST OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS 30th DAY OF AUGUST 2011 A.D.
 R.F. Hodgen

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2630
 LICENSE EXPIRATION DATE: 11-30-2012

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

RUETTIGER, TONELLI & ASSOCIATES, INC.
 Land Surveyors/Engineers/Planners/Landscape Architects/G.I.S. Consultants
 214 ONEIDA STREET
 JOLIET, ILLINOIS 60435
 PH. (815) 744-6600 FAX (815) 744-0101

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 FAP 307 (IL 64)

SECTION: COUNTY: KANE
 PROJECT: JOB NO.: R91-042-01
 STATION 119+00 TO STATION 126+00
 SCALE: 1"=30' SHEET 21 OF 29

BUREAU OF LAND ACQUISITION SH. NO. 101
 201 WEST CENTER COURT OF 243
 SCHAUMBURG, ILLINOIS 60196

PART OF THE SE 1/4 OF SECTION 26, TWP. 40 N., R. 8 E. OF THE 3RD. P.M., IN KANE COUNTY, ILLINOIS.

STATE OF ILLINOIS)
) SSS
 COUNTY OF WILL)

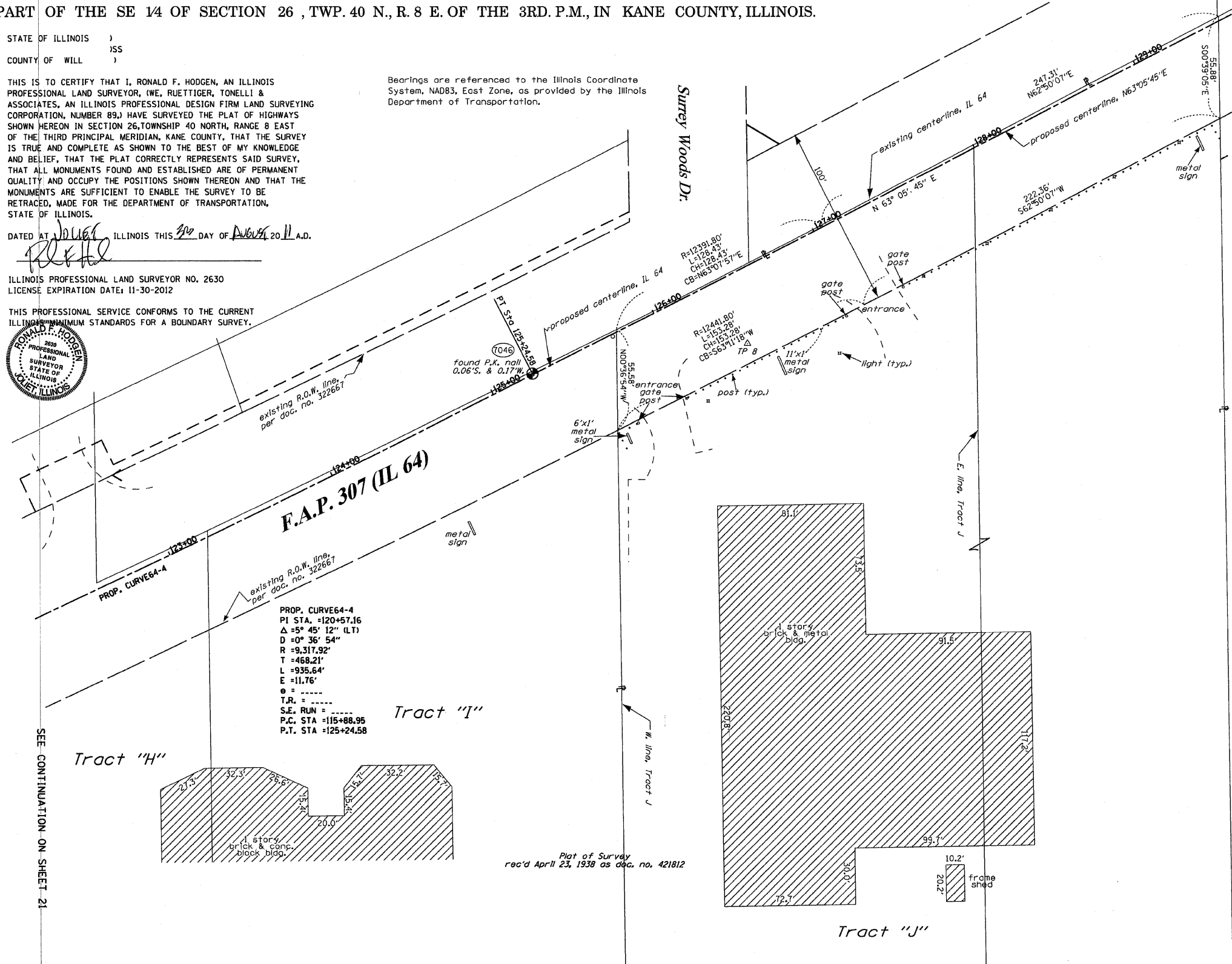
THIS IS TO CERTIFY THAT I, RONALD F. HODGEN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, (WE, RUETTIGER, TONELLI & ASSOCIATES, AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 89,) HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 26, TOWNSHIP 40 NORTH, RANGE 8 EAST OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

Bearings are referenced to the Illinois Coordinate System, NAD83, East Zone, as provided by the Illinois Department of Transportation.

DATED AT JOLIET, ILLINOIS THIS 20 DAY OF August, 2011 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2630
 LICENSE EXPIRATION DATE: 11-30-2012

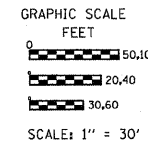
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



SEE CONTINUATION ON SHEET 24

LEGEND

- SECTION LINE
 - QUARTER SECTION LINE
 - QUARTER, QUARTER SECTION LINE
 - PLATTED LOT LINES
 - PROPERTY (DEED) LINE
 - APPARENT PROPERTY LINE
 - CENTERLINE
 - EXISTING RIGHT OF WAY LINE
 - PROPOSED RIGHT OF WAY LINE
 - PROPOSED EASEMENT
 - MEASURED DIMENSION
 - COMPUTED DIMENSION
 - RECORDED DIMENSION
 - EXISTING BUILDING
-
- IRON PIPE OR ROD FOUND
 - CUT CROSS FOUND OR SET
 - "MAG" NAIL SET
 - 5/8" REBAR SET
-
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 - T2
 - T3
 - BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 - BT2
 - BT3
 - M 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.
 - P PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
 - R RIGHT OF WAY STAKING PROPOSED TO BE SET



PROP. CURVE 64-4
 PI STA. = 120+57.16
 Δ = 5° 45' 12" (LT)
 D = 0° 36' 54"
 R = 9,317.92'
 T = 468.21'
 L = 935.64'
 E = 11.76'
 θ = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA = 115+88.95
 P.T. STA = 125+24.58

Tract "I"

Tract "H"

Tract "J"

Plat of Survey rec'd April 23, 1938 as doc. no. 421812

COORDINATE TABLE

STATION	OFFSET	PTH	NORTH	EAST
125+24.58	0.00' RT.		7046	1913273.308
				996366.797

RUETTIGER, TONELLI & ASSOCIATES, INC.
 Land Surveyors/Engineers/Planners/Landscape Architects/G.I.S. Consultants
 214 ONEIDA STREET
 JOLIET, ILLINOIS 60438
 PH. (815) 744-6600 FAX (815) 744-0101

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 FAP 307 (IL 64)

SECTION: COUNTY: KANE
 PROJECT: JOB NO.: R91-042-01
 STATION 123+00 TO STATION 129+00
 SCALE: 1"=30' SHEET 22 OF 29

BUREAU OF LAND ACQUISITION SH. No. 102
 201 WEST CENTER COURT DF 243
 SCHAUMBURG, ILLINOIS 60196

REVISION DATE: 1-5-2010

REVISION: DELETE 120TE-A & 120TE-B PER IDOT
 ADDED NOTE TO PARCEL TABLE
 REVISIONS PER IDOT REVIEW

MADE BY: TLW

PART OF THE SE 1/4 OF SECTION 26, TWP. 40 N., R. 8 E. OF THE 3RD. P.M., IN KANE COUNTY, ILLINOIS.

STATE OF ILLINOIS)
 COUNTY OF WILL)

THIS IS TO CERTIFY THAT I, RONALD F. HODGEN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, (WE, RUETTIGER, TONELLI & ASSOCIATES, AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 89,) HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 26, TOWNSHIP 40 NORTH, RANGE 8 EAST OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS 2nd DAY OF NOVEMBER 2011 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2630
 LICENSE EXPIRATION DATE: 11-30-2012

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



LEGEND

SECTION CORNER: 9 10 15 16

QUARTER CORNER: 16 15

SECTION LINE: ---

QUARTER SECTION LINE: - - -

QUARTER, QUARTER SECTION LINE: - · -

PLATTED LOT LINES: - · - · -

PROPERTY (DEED) LINE: ———

APPARENT PROPERTY LINE: - · - · -

CENTERLINE: - - -

EXISTING RIGHT OF WAY LINE: - · - · -

PROPOSED RIGHT OF WAY LINE: - · - · -

PROPOSED EASEMENT: - · - · -

MEASURED DIMENSION: 129.32'

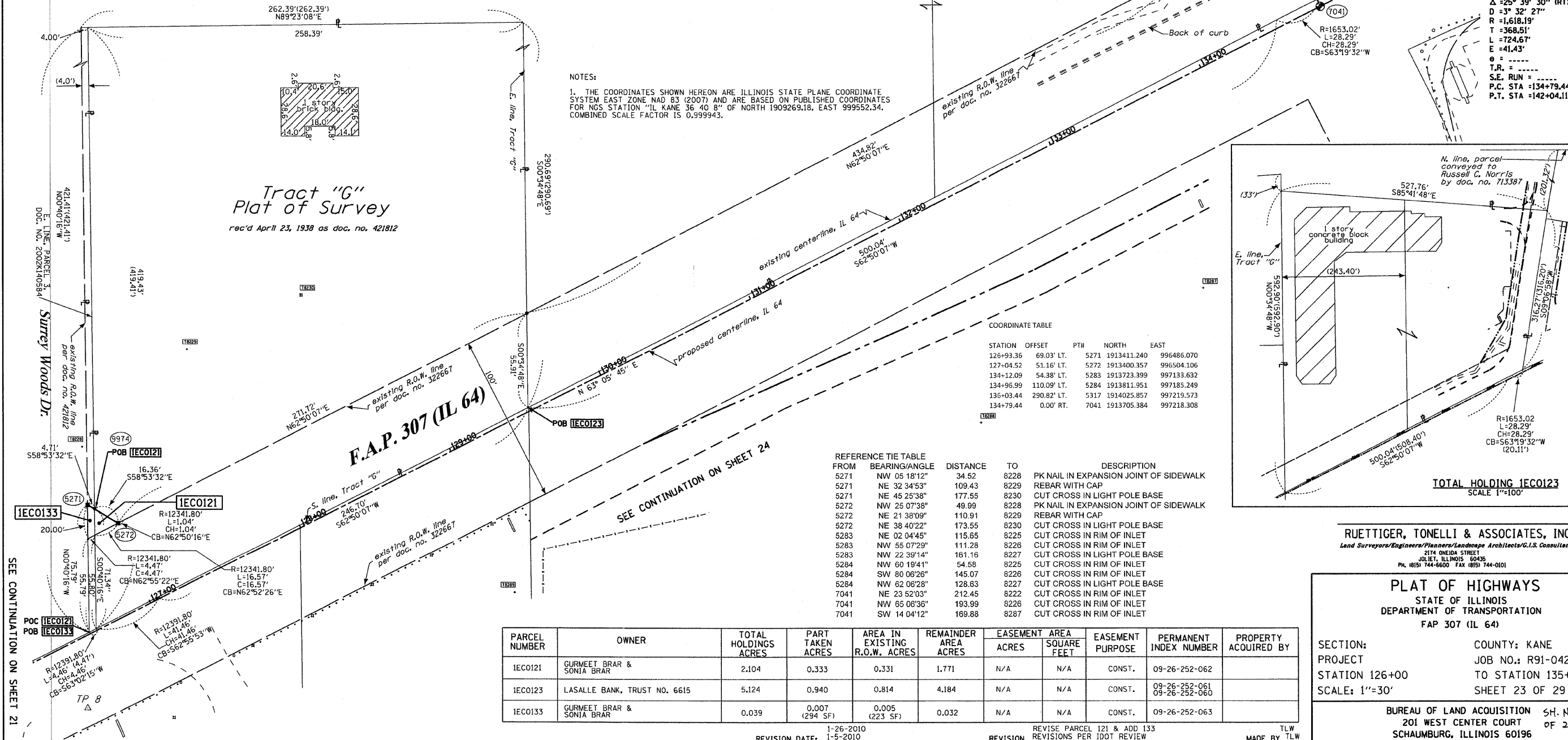
COMPUTED DIMENSION: 129.32' (COMP)

RECORDED DIMENSION: (129.32')

EXISTING BUILDING: [Hatched Box]

- IRON PIPE OR ROD FOUND
- + CUT CROSS FOUND OR SET
- "MAG" NAIL SET
- 5/8" REBAR SET
- T1, T2, T3 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
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- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

SEE CONTINUATION ON SHEET 26



RUETTIGER, TONELLI & ASSOCIATES, INC.
 Lead Surveyors/Engineers/Planners/Landscape Architects/C.I.S. Consultants
 2174 ONEIDA STREET
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 PH. (815) 744-6650 FAX (815) 744-0101

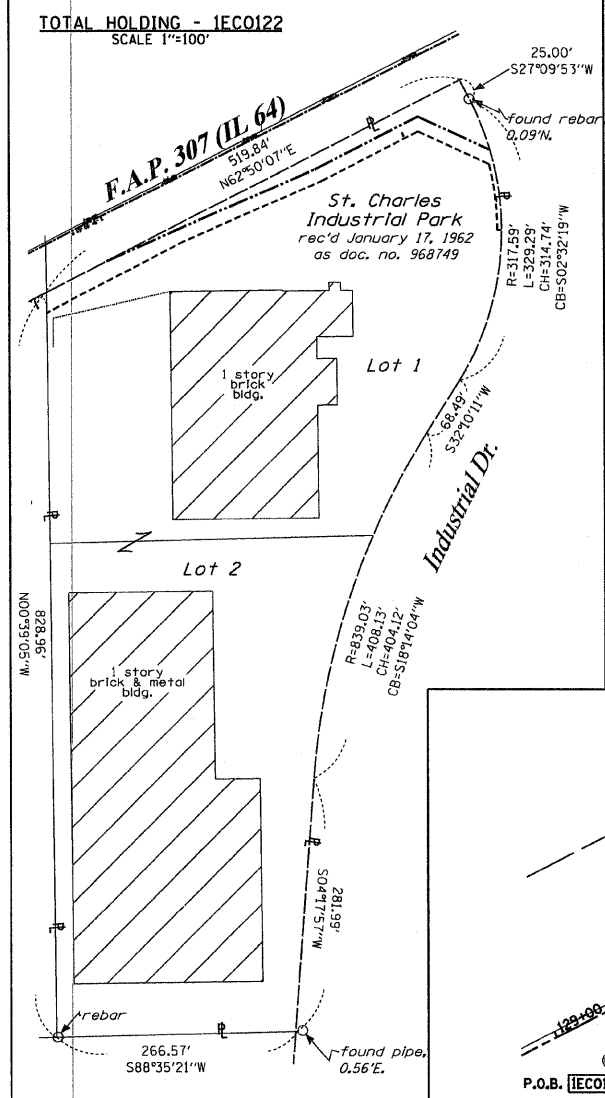
PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 FAP 307 (IL 64)

SECTION: COUNTY: KANE
 PROJECT: JOB NO.: R91-042-01
 STATION 126+00 TO STATION 135+00
 SCALE: 1"=30' SHEET 23 OF 29

BUREAU OF LAND ACQUISITION SH. No. 103
 201 WEST CENTER COURT OF 243
 SCHAUMBURG, ILLINOIS 60196

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT SQUARE FEET	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
IECO121	GURMEET BRAR & SONIA BRAR	2.104	0.333	0.331	1.771	N/A	N/A	CONST.	09-26-252-062	
IECO123	LASALLE BANK, TRUST NO. 6615	5.124	0.940	0.814	4.184	N/A	N/A	CONST.	09-26-252-061 09-26-252-060	
IECO133	GURMEET BRAR & SONIA BRAR	0.039	0.007 (294 SF)	0.005 (223 SF)	0.032	N/A	N/A	CONST.	09-26-252-063	

PART OF THE NE 1/4 & SE 1/4 OF SECTION 26, TWP. 40 N., R. 8 E. OF THE 3RD. P.M., IN KANE COUNTY, ILLINOIS.

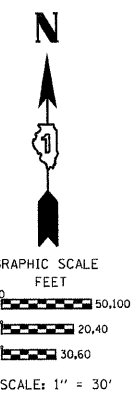


Bearings are referenced to the Illinois Coordinate System, NAD83, East Zone, as provided by the Illinois Department of Transportation.

IRON PIPE OR ROD FOUND \odot "MAG" NAIL SET
CUT CROSS FOUND OR SET \bullet 5/8" REBAR SET

- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1 THESE STAKES IN CULTIVATED AREAS REFERENCE FND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- 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.
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- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

PROP. CURVE 64-5
PI STA. = 138+47.96
 Δ = 25° 39' 30" (RT)
D = 3° 32' 27"
R = 1,618.19'
L = 368.51'
T = 724.67'
E = 41.43'
T.R. =
S.E. RUN =
P.C. STA = 134+79.44
P.T. STA = 142+04.11



LEGEND

- SECTION CORNER
- QUARTER CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- 129.32' (COMP) COMPUTED DIMENSION
- 129.32' RECORDED DIMENSION
- EXISTING BUILDING

SEE CONTINUATION ON SHEET 23
existing R.O.W. line, per doc. no. 322667

F.A.P. 307 (IL 64)

TEMPORARY CONSTRUCTION EASEMENT IEC0122TE

NOTES:
1. THE COORDINATES SHOWN HEREON ARE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE NAD 83 (2007) AND ARE BASED ON PUBLISHED COORDINATES FOR NGS STATION "IL KANE 36 40 8" OF NORTH 1909265.18, EAST 999552.34. COMBINED SCALE FACTOR IS 0.999943.

STATE OF ILLINOIS)
)SS
COUNTY OF WILL)

THIS IS TO CERTIFY THAT I, RONALD F. HODGEN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, (WE, RUEITIGER, TONELLI & ASSOCIATES, AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 89,) HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 26, TOWNSHIP 40 NORTH, RANGE 8 EAST OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS 20th DAY OF AUGUST, 2011 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2630
LICENSE EXPIRATION DATE: 11-30-2012

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



COORDINATE TABLE

STATION	OFFSET	PTH	NORTH	EAST
130+04.00	47.48' RT.	5274	1913447.909	996815.807
132+58.00	61.32' RT.	5275	1913550.497	997048.580
133+87.67	60.73' RT.	5276	1913609.697	997163.945
134+42.93	130.12' RT.	5277	1913572.822	997244.629
129+18.48	67.86' RT.	5278	1913391.029	996748.771
132+58.07	76.32' RT.	5279	1913537.152	997055.428
130+88.73	67.09' RT.	5280	1913468.759	996900.246
133+80.46	75.76' RT.	5281	1913593.032	997164.324
134+34.87	144.08' RT.	5282	1913556.731	997243.751
134+09.00	214.28' RT.	5328	1913482.419	997252.456
134+13.45	216.56' RT.	5329	1913482.402	997257.456
129+28.37	47.82' RT.	6206	1913413.379	996748.517
134+79.44	0.00' RT.	7041	1913705.384	997218.308

REFERENCE TIE TABLE

FROM	BEARING/ANGLE	DISTANCE	TO	DESCRIPTION
5274	NE 75 36'27"	372.91	8287	CUT CROSS IN INLET RIM
5274	NE 86 26'18"	201.39	8288	CUT CROSS IN INLET RIM
5274	SW 40 51'15"	116.93	8269	PK NAIL
5275	SE 52 24'28"	181.74	8286	CUT CROSS IN INLET RIM
5275	SE 85 35'34"	128.81	8287	CUT CROSS IN INLET RIM
5276	SE 09 33'33"	172.46	8286	CUT CROSS IN INLET RIM
5276	SE 10 42'19"	70.32	8287	CUT CROSS IN INLET RIM
5276	SW 44 35'08"	209.60	8288	CUT CROSS IN INLET RIM
5277	SW 21 20'32"	143.00	8286	CUT CROSS IN INLET RIM
5277	SW 64 31'16"	74.91	8287	CUT CROSS IN INLET RIM
5277	SW 63 44'20"	254.04	8288	CUT CROSS IN INLET RIM

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT ACRES	AREA SQUARE FEET	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
IEC0122	COCA COLA BOTTLING COMPANY OF CHICAGO	7.944	0.160	N/A	7.784	0.213	N/A	CONST.	09-26-402-007	

RUEITIGER, TONELLI & ASSOCIATES, INC.
Land Surveyors/Engineers/Planners/Landscape Architects/G.I.S. Consultants
2114 ONEIDA STREET
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PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FAP 307 (IL 64)

SECTION: COUNTY: KANE
PROJECT: JOB NO.: R91-042-01
STATION 129+00 TO STATION 135+00
SCALE: 1"=30' SHEET 24 OF 29

BUREAU OF LAND ACQUISITION SH. NO. 104
201 WEST CENTER COURT OF 243
SCHAUMBURG, ILLINOIS 60196

PART OF THE NE 14 OF SECTION 26, TWP. 40 N., R. 8 E. OF THE 3RD. P.M., IN KANE COUNTY, ILLINOIS.

SEE CONTINUATION ON SHEET 26

SEE CONTINUATION ON SHEET 23

SEE CONTINUATION ON SHEET 24

ROUTE NAME: FAP 307 (IL 64)

SECTION: 16

COUNTY: KANE

JOB NO.: R91-042-01

RECORDING: RECORDED ON

SHEET 1 OF -- IS A COVER SHEET AND IS NOT RECORDED

NOTES:

1. THE COORDINATES SHOWN HEREON ARE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE NAD 83 (2007) AND ARE BASED ON PUBLISHED COORDINATES FOR NGS STATION "IL KANE 36 40 8" OF NORTH 1909269.18, EAST 999552.34. COMBINED SCALE FACTOR IS 0.999943.

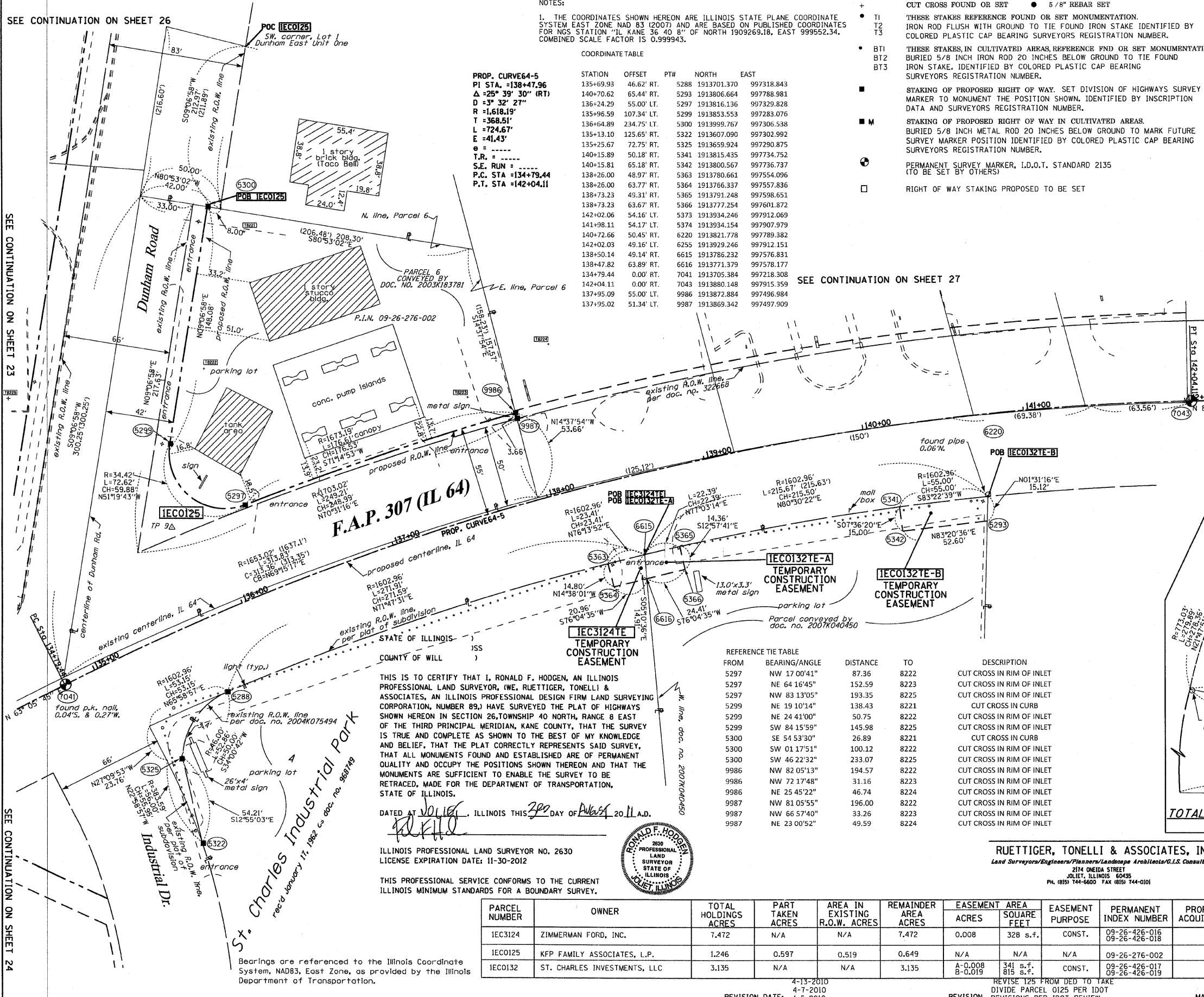
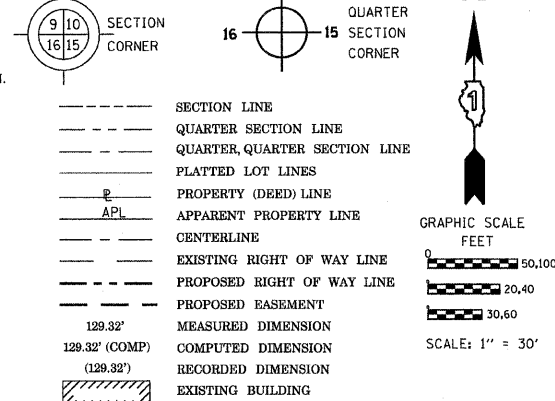
COORDINATE TABLE

STATION	OFFSET	PTH	NORTH	EAST
135+69.93	46.62' RT.	5288	1913701.370	997318.843
140+70.62	65.44' RT.	5293	1913806.664	997788.981
136+24.29	55.00' LT.	5297	1913816.136	997329.828
135+96.59	107.34' LT.	5299	1913853.553	997283.076
136+64.89	234.75' LT.	5300	1913999.767	997306.538
135+13.10	125.65' RT.	5322	1913607.090	997302.992
135+25.67	72.75' RT.	5325	1913659.924	997290.875
140+15.89	50.18' RT.	5341	1913815.435	997734.752
140+15.81	65.18' RT.	5342	1913800.567	997736.737
138+26.00	48.97' RT.	5363	1913780.661	997554.096
138+26.00	63.77' RT.	5364	1913766.337	997557.836
138+73.23	49.31' RT.	5365	1913791.248	997598.651
138+73.23	63.67' RT.	5366	1913777.254	997601.872
142+02.06	54.16' LT.	5373	1913934.246	997912.069
141+98.11	54.17' LT.	5374	1913934.154	997907.979
140+72.66	50.45' RT.	6220	1913821.778	997789.382
142+02.03	49.16' LT.	6255	1913929.246	997912.151
138+50.14	49.14' RT.	6615	1913786.232	997576.831
138+47.82	63.89' RT.	6616	1913771.379	997578.177
134+79.44	0.00' RT.	7041	1913705.384	997218.308
142+04.11	0.00' RT.	7043	1913880.148	997915.359
137+95.09	55.00' LT.	9986	1913872.884	997496.984
137+95.02	51.34' LT.	9987	1913869.342	997497.909

PROP. CURVE 64-5
 PI STA. = 138+47.96
 Δ = 25° 39' 30" (RT)
 D = 3° 32' 27"
 R = 1,618.19'
 T = 368.51'
 L = 724.67'
 E = 41.43'
 S.E. RUN =
 P.C. STA = 134+79.44
 P.T. STA = 142+04.11

- IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- + CUT CROSS FOUND OR SET
- 5/8" REBAR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.
- T2 IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T3 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1
- BT2
- BT3
- 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

LEGEND



THIS IS TO CERTIFY THAT I, RONALD F. HODGEN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, (WE, RUETTIGER, TONELLI & ASSOCIATES, AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 89), HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 26, TOWNSHIP 40 NORTH, RANGE 8 EAST OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS 20th DAY OF AUGUST, 2011 A.D.

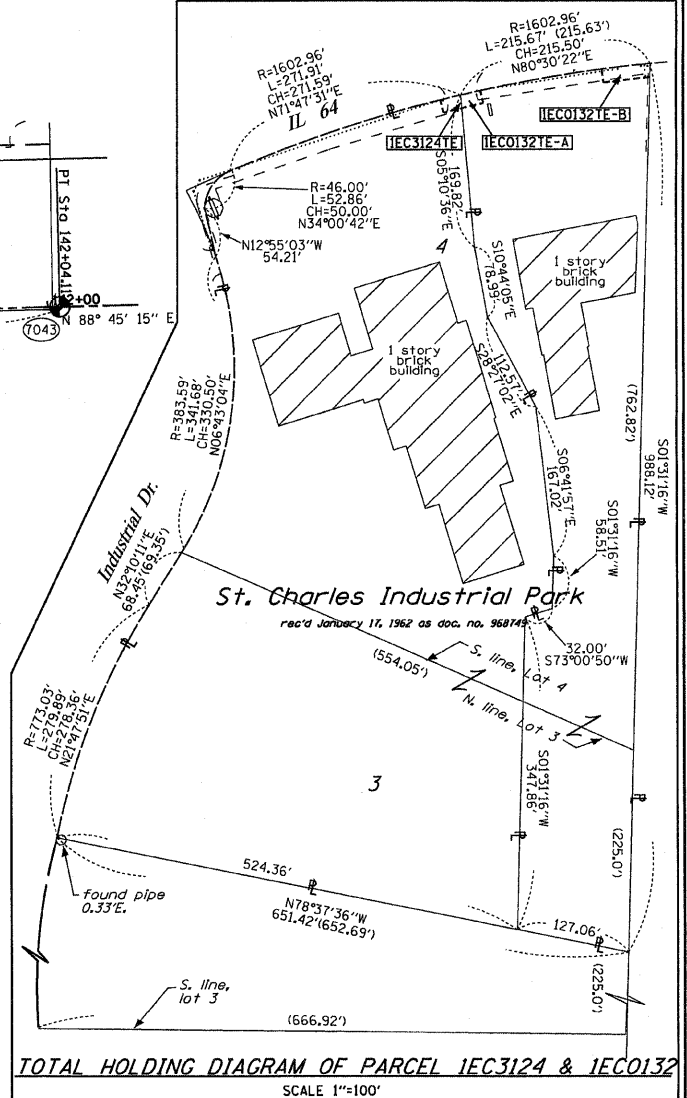
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2630
 LICENSE EXPIRATION DATE: 11-30-2012

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



REFERENCE TIE TABLE

FROM	BEARING/ANGLE	DISTANCE	TO	DESCRIPTION
5297	NW 17 00'41"	87.36	8222	CUT CROSS IN RIM OF INLET
5297	NE 64 16'45"	152.59	8223	CUT CROSS IN RIM OF INLET
5297	NW 83 13'05"	193.35	8225	CUT CROSS IN RIM OF INLET
5299	NE 19 10'14"	138.43	8221	CUT CROSS IN CURB
5299	NE 24 41'00"	50.75	8222	CUT CROSS IN RIM OF INLET
5299	SW 84 15'59"	145.98	8225	CUT CROSS IN RIM OF INLET
5300	SE 54 53'30"	26.89	8221	CUT CROSS IN CURB
5300	SW 01 17'51"	100.12	8222	CUT CROSS IN RIM OF INLET
5300	SW 46 22'32"	233.07	8225	CUT CROSS IN RIM OF INLET
9986	NW 82 05'13"	194.57	8222	CUT CROSS IN RIM OF INLET
9986	NW 72 17'48"	31.16	8223	CUT CROSS IN RIM OF INLET
9986	NE 25 45'22"	46.74	8224	CUT CROSS IN RIM OF INLET
9987	NW 81 05'55"	196.00	8222	CUT CROSS IN RIM OF INLET
9987	NW 66 57'40"	33.26	8223	CUT CROSS IN RIM OF INLET
9987	NE 23 00'52"	49.59	8224	CUT CROSS IN RIM OF INLET



RUETTIGER, TONELLI & ASSOCIATES, INC.
 Land Surveyors/Engineers/Planners/Landscape Architects/G.I.S. Consultants
 2114 ONEIDA STREET
 JOLIET, ILLINOIS 60435
 PH. (815) 744-6600 FAX (815) 744-0101

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 FAP 307 (IL 64)

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT ACRES	EASEMENT SQUARE FEET	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
IEC3124	ZIMMERMAN FORD, INC.	7.472	N/A	N/A	7.472	0.008	328 s.f.	CONST.	09-26-426-016 09-26-426-018	
IEC0125	KFP FAMILY ASSOCIATES, L.P.	1.246	0.597	0.519	0.649	N/A	N/A	N/A	09-26-276-002	
IEC0132	ST. CHARLES INVESTMENTS, LLC	3.135	N/A	N/A	3.135	A-0.008 B-0.019	341 s.f. 815 s.f.	CONST.	09-26-426-017 09-26-426-019	

SECTION: COUNTY: KANE
 PROJECT: JOB NO.: R91-042-01
 STATION 135+00 TO STATION 142+00
 SCALE: 1"=30' SHEET 25 OF 29

BUREAU OF LAND ACQUISITION SH. No. 105
 201 WEST CENTER COURT OF 243
 Schaumburg, Illinois 60196

REVISION DATE: 4-13-2010
 4-7-2010
 1-5-2010

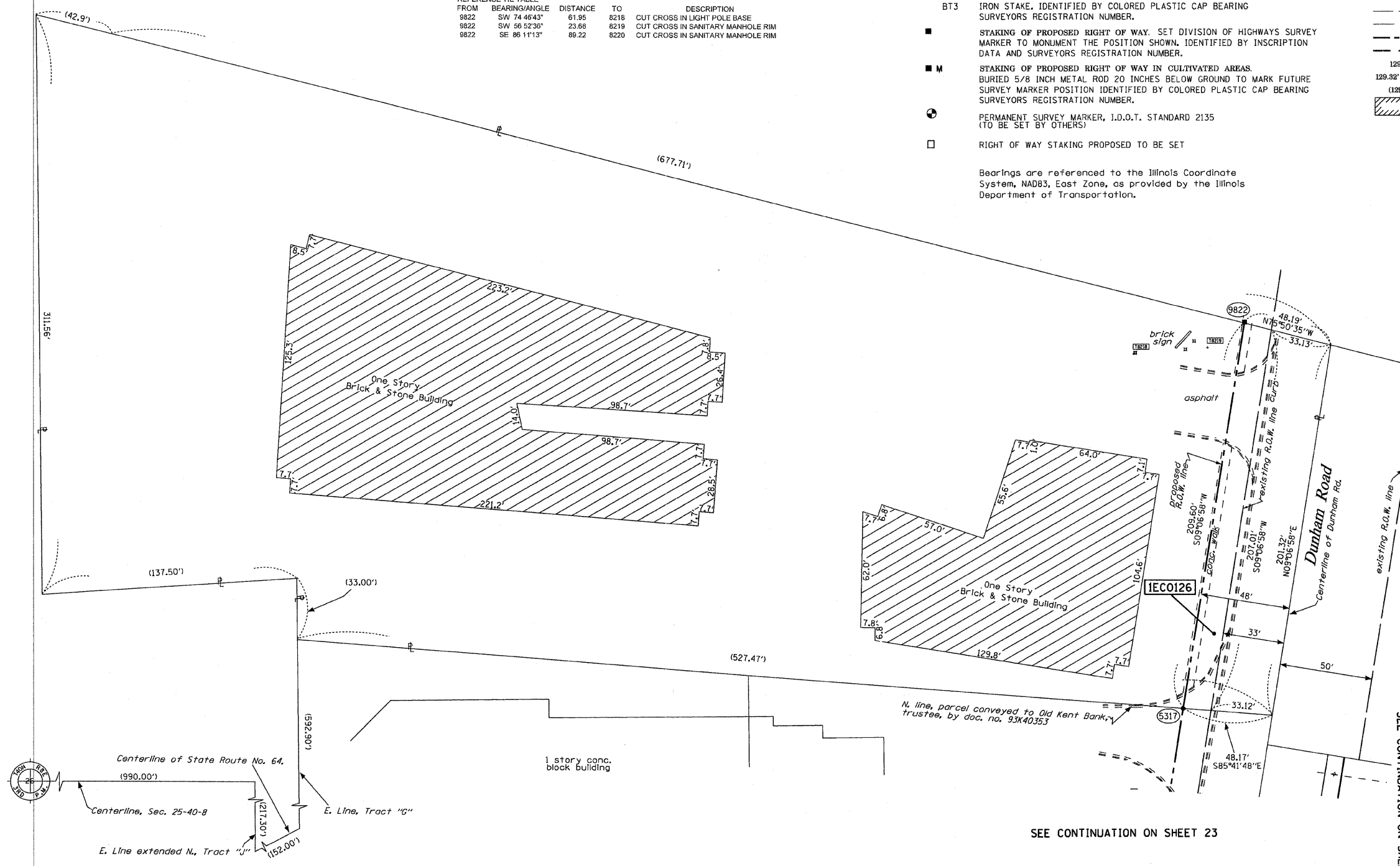
REVISION: REVISION 125 FROM DED TO TAKE
 DIVIDE PARCEL 0125 PER IDOT
 REVISIONS PER IDOT REVIEW

MADE BY: TLW

PART OF THE NE 14 OF SECTION 26, TWP. 40 N., R. 8 E. OF THE 3RD. P.M., IN KANE COUNTY, ILLINOIS.

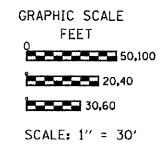
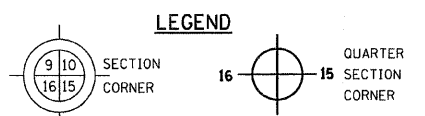
PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
						ACRES	SQUARE FEET			
1EC0126	CHARLES OFFICE CONDO. ASSOCIATION	4.061	0.226	0.155	3.835	N/A	N/A	N/A	09-26-252-065 thru 09-26-252-082	

FROM	BEARING/ANGLE	DISTANCE	TO	DESCRIPTION
9822	SW 74 46'43"	61.95	8218	CUT CROSS IN LIGHT POLE BASE
9822	SW 56 52'36"	23.68	8219	CUT CROSS IN SANITARY MANHOLE RIM
9822	SE 86 11'13"	89.22	8220	CUT CROSS IN SANITARY MANHOLE RIM



- IRON PIPE OR ROD FOUND
- + CUT CROSS FOUND OR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T2
- T3
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
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- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

Bearings are referenced to the Illinois Coordinate System, NAD83, East Zone, as provided by the Illinois Department of Transportation.



COORDINATE TABLE

STATION	OFFSET	PTH	NORTH	EAST
136+03.44	290.82' LT.	5317	1914025.857	997219.573
136+88.57	472.17' LT.	9822	1914232.805	997252.781

STATE OF ILLINOIS)
COUNTY OF WILL)

THIS IS TO CERTIFY THAT I, RONALD F. HODGEN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, (WE, RUETTIGER, TONELLI & ASSOCIATES, AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 89,) HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 26, TOWNSHIP 40 NORTH, RANGE 8 EAST OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS 20th DAY OF August 2011 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2630
LICENSE EXPIRATION DATE: 11-30-2012

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

RUETTIGER, TONELLI & ASSOCIATES, INC.
Land Surveyors/Engineers/Planners/Landscape Architects/C.L.S. Consultants
2114 ONEIDA STREET
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PH. (815) 744-6600 FAX (815) 744-0101

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FAP 307 (IL 64)

SECTION: COUNTY: KANE
PROJECT JOB NO.: R91-042-01
STATION 136+03.44 TO STATION 136+88.57
SCALE: 1"=30' SHEET 26 OF 29

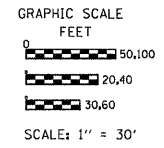
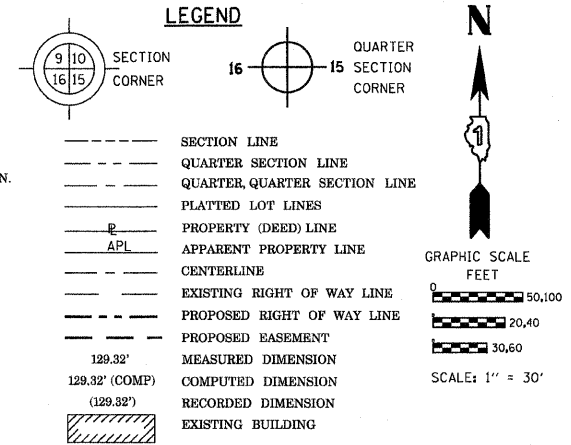
BUREAU OF LAND ACQUISITION SH. No. 106
201 WEST CENTER COURT OF 243
SCHAUMBURG, ILLINOIS 60196

PART OF THE NE 14 OF SECTION 26, TWP. 40 N., R. 8 E. OF THE 3RD. P.M., IN KANE COUNTY, ILLINOIS.

NOTES:

1. THE COORDINATES SHOWN HEREON ARE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE NAD 83 (2007) AND ARE BASED ON PUBLISHED COORDINATES FOR NGS STATION "IL KANE 36 40 8" OF NORTH 1909269.18, EAST 999552.34. COMBINED SCALE FACTOR IS 0.999943.

LEGEND



COORDINATE TABLE

STATION	OFFSET	PTH	NORTH	EAST
141+98.65	54.16' LT.	5374	1913934.167	997908.540
142+02.03	49.16' LT.	6255	1913929.246	997912.151
134+79.44	0.00' RT.	7041	1913705.384	997218.308
142+04.11	0.00' RT.	7043	1913880.148	997915.359
137+95.02	51.34' LT.	9987	1913869.342	997497.909
137+95.11	56.34' LT.	9988	1913874.181	997496.645
142+02.06	54.16' LT.	9989	1913934.246	997912.069
141+27.59	54.39' LT.	9990	1913930.939	997835.171
140+60.54	54.67' LT.	9992	1913925.003	99766.122
139+15.50	55.47' LT.	9994	1913902.607	997617.880

STATE OF ILLINOIS)
COUNTY OF WILL)

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DATED July 11 ILLINOIS THIS 30 DAY OF August 20 A.D. 2011

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2630
LICENSE EXPIRATION DATE: 11-30-2012

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

PROP. CURVES 64-5
PI STA. = 138+47.96
Δ = 25° 39' 30" (RT)
D = 3° 32' 27"
R = 1,618.19'
T = 368.51'
L = 724.67'
E = 41.43'
θ = ----
T.R. = ----
S.E. RUN = ----
P.C. STA = 134+79.44
P.T. STA = 142+04.11

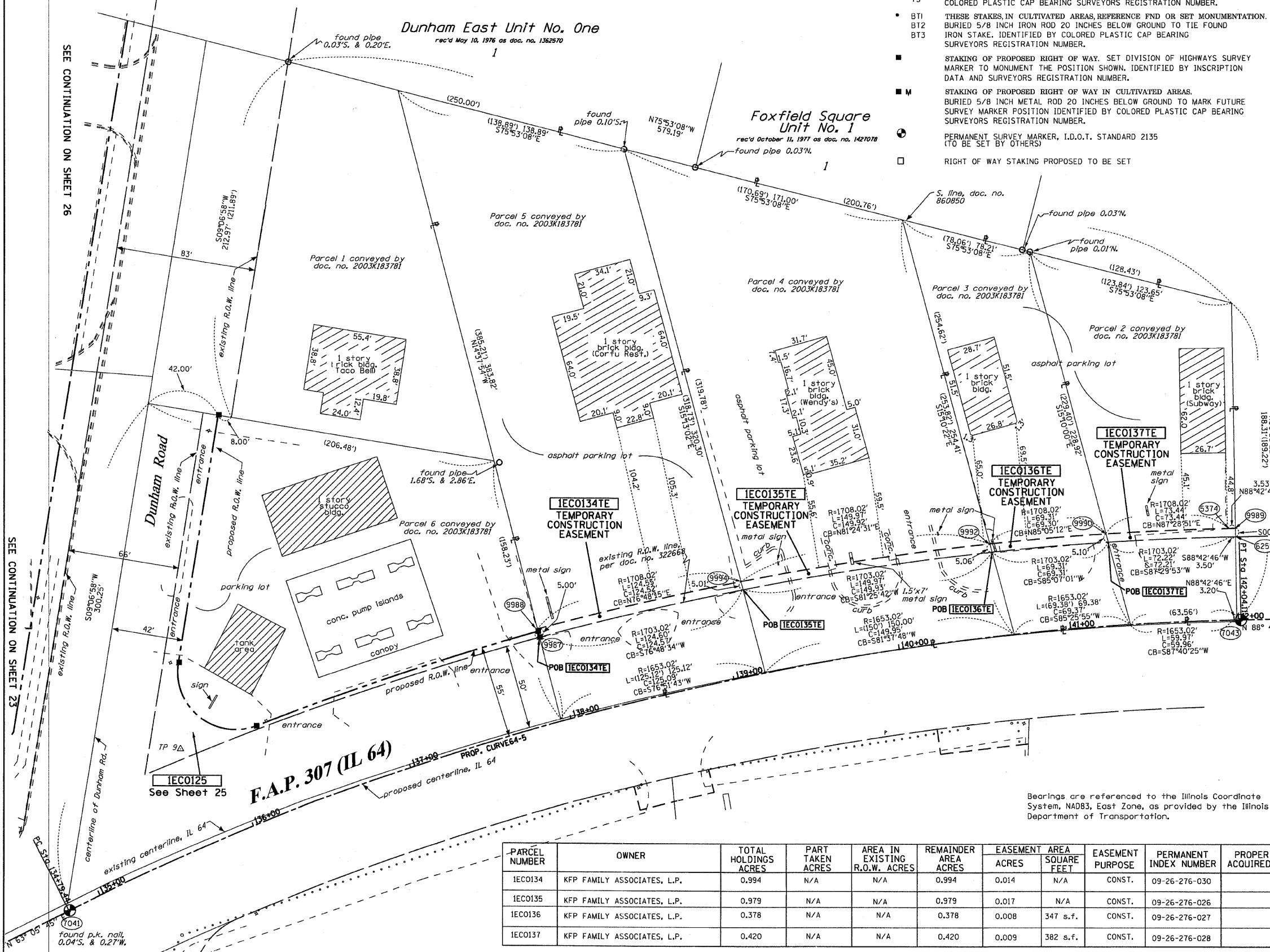


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Land Surveyors/Engineers/Planners/Landscape Architects/G.I.S. Consultants
2174 ONEIDA STREET
JOLIET, ILLINOIS 60438
PH. (815) 744-6600 FAX (815) 744-0101

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FAP 307 (IL 64)

SECTION: COUNTY: KANE
PROJECT: JOB NO.: R91-042-01
STATION 135+00 TO STATION 142+00
SCALE: 1"=30' SHEET 27 OF 29

BUREAU OF LAND ACQUISITION SH. No. 107
201 WEST CENTER COURT OF 243
SCHAUMBURG, ILLINOIS 60196



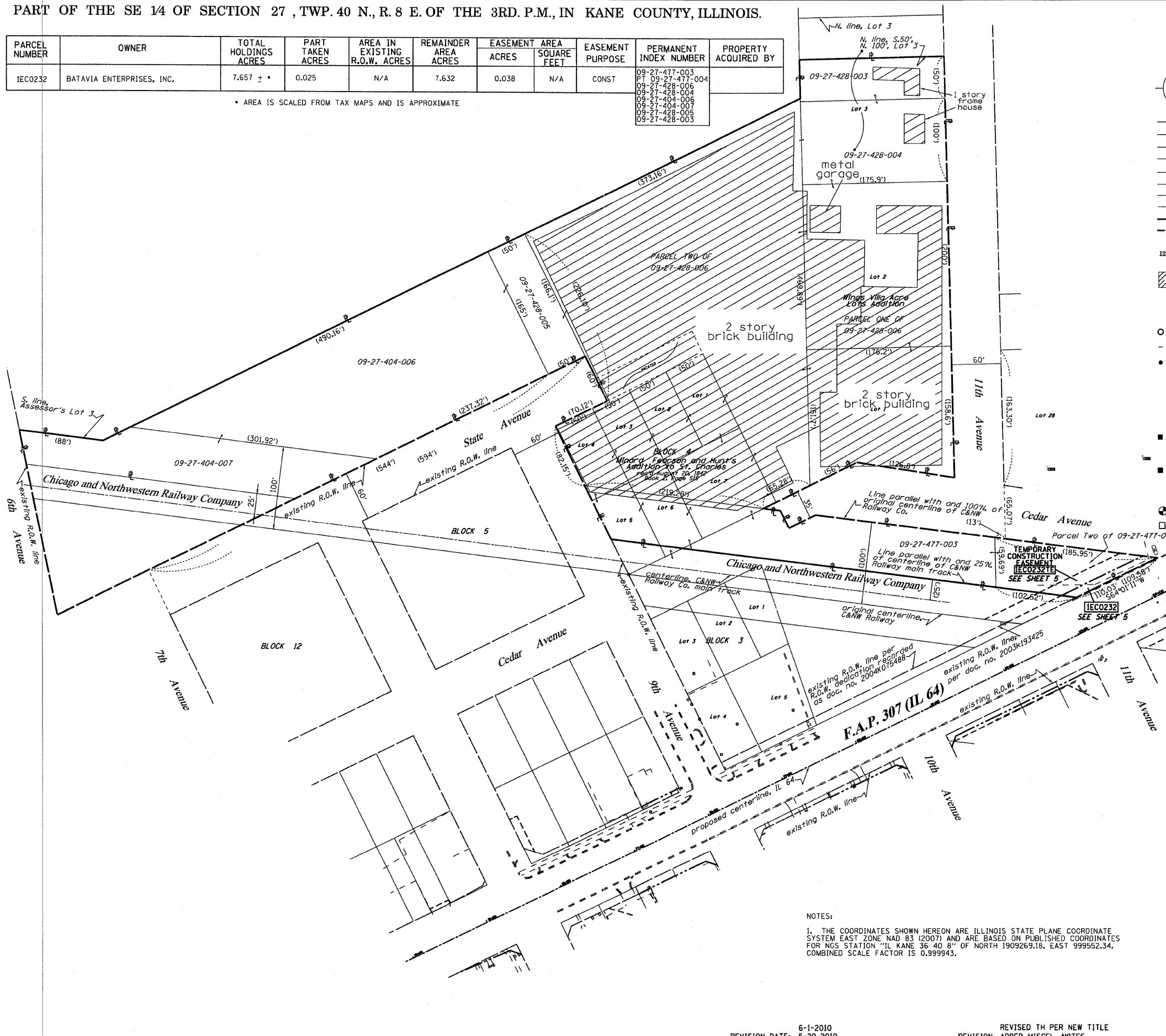
Bearings are referenced to the Illinois Coordinate System, NAD83, East Zone, as provided by the Illinois Department of Transportation.

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT AREA SQUARE FEET	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
IECO134	KFP FAMILY ASSOCIATES, L.P.	0.994	N/A	N/A	0.994	0.014	N/A	CONST.	09-26-276-030	
IECO135	KFP FAMILY ASSOCIATES, L.P.	0.979	N/A	N/A	0.979	0.017	N/A	CONST.	09-26-276-026	
IECO136	KFP FAMILY ASSOCIATES, L.P.	0.378	N/A	N/A	0.378	0.008	347 s.f.	CONST.	09-26-276-027	
IECO137	KFP FAMILY ASSOCIATES, L.P.	0.420	N/A	N/A	0.420	0.009	382 s.f.	CONST.	09-26-276-028	

PART OF THE SE 14 OF SECTION 27, TWP. 40 N., R. 8 E. OF THE 3RD. P.M., IN KANE COUNTY, ILLINOIS.

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT ACRES	AREA SQUARE FEET	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
IEC0232	BATAVIA ENTERPRISES, INC.	7.657 ± *	0.025	N/A	7.632	0.038	N/A	CONST	09-27-477-003 09-27-477-004 09-27-428-006 09-27-428-004 09-27-404-006 09-27-404-007 09-27-428-005 09-27-428-003	

* AREA IS SCALED FROM TAX MAPS AND IS APPROXIMATE



LEGEND

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

GRAPHIC SCALE
 FEET
 0 50,100
 20,40
 30,60
 SCALE: 1" = 30'

Bearings are referenced to the Illinois Coordinate System, NAD83, East Zone, as provided by the Illinois Department of Transportation.

- IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- CUT CROSS FOUND OR SET
- 5/8" REBAR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
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- T3
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- BT3
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- 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)
) SSS
 COUNTY OF WILL)

THIS IS TO CERTIFY THAT I, RONALD F. HODGEN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, (WE, RUETTIGER, TONELLI & ASSOCIATES, AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 89,) HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 27, TOWNSHIP 40 NORTH, RANGE 8 EAST OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS 3RD DAY OF AUGUST 2011 A.D.

R.F.H.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2630
 LICENSE EXPIRATION DATE: 11-30-2012

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



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PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 FAP 307 (IL 64)

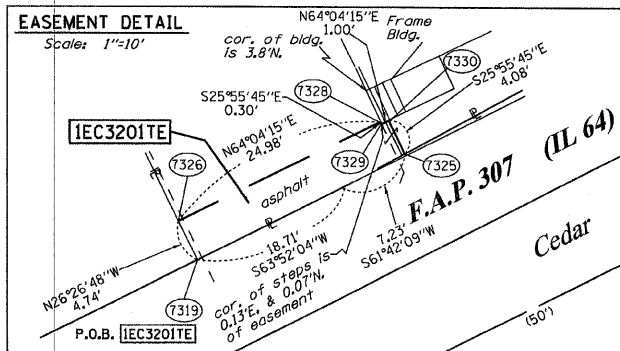
SECTION: COUNTY: KANE
 PROJECT JOB NO.: R91-042-01
 STATION 74+00 TO STATION 84+00
 SCALE: 1" = 60' SHEET 28 OF 29

BUREAU OF LAND ACQUISITION
 201 WEST CENTER COURT
 SCHLAUBURG, ILLINOIS 60196
 S.H. No. 108
 OF 243

NOTES:
 1. THE COORDINATES SHOWN HEREON ARE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE NAD 83 (2007) AND ARE BASED ON PUBLISHED COORDINATES FOR NGS STATION "IL KANE 36 40 8" OF NORTH 1909269.18, EAST 999552.34. COMBINED SCALE FACTOR IS 0.9999943.

PART OF THE SE 1/4 OF SECTION 27, TWP. 40 N., R. 8 E. OF THE 3RD. P.M., IN KANE COUNTY, ILLINOIS.

EASEMENT DETAIL
Scale: 1"=10'



COORDINATE TABLE

STATION	OFFSET	PTH	NORTH	EAST
74+44.06	40.26' LT.	7319	1911669.900	991572.062
74+70.00	40.62' LT.	7325	1911681.570	991595.228
74+44.02	45.00' LT.	7326	1911674.147	991569.949
74+69.00	45.00' LT.	7328	1911685.069	991592.414
74+69.00	44.70' LT.	7329	1911684.800	991592.545
74+70.00	44.70' LT.	7330	1911685.237	991593.445

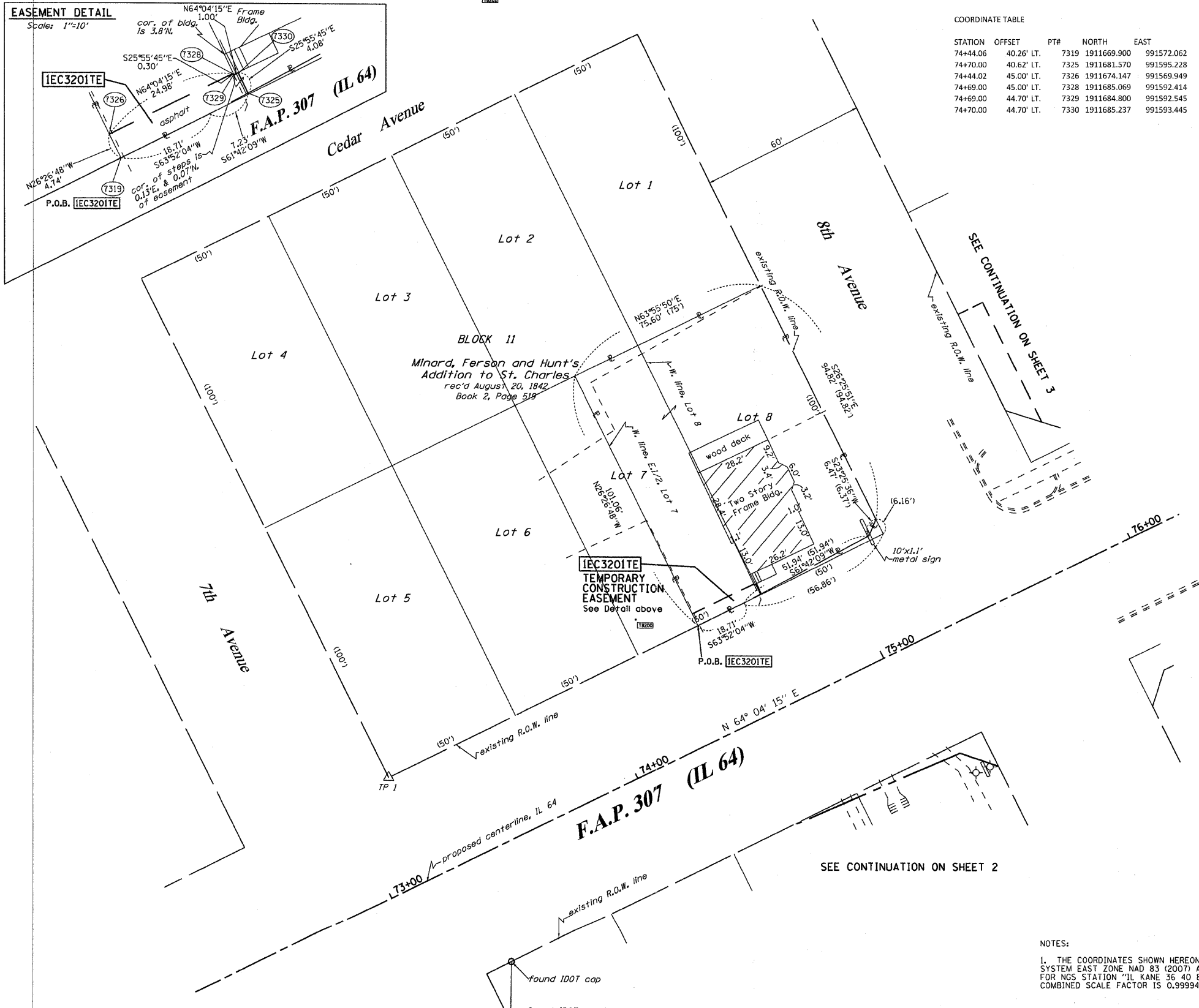
LEGEND

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

GRAPHIC SCALE
FEET
0 50,100
20,40
30,60
SCALE: 1" = 20'

Bearings are referenced to the Illinois Coordinate System, NAD83, East Zone, as provided by the Illinois Department of Transportation.

- IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- + CUT CROSS FOUND OR SET
- 5/8" REBAR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T2
- T3
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT2
- BT3
- 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 WILL)

THIS IS TO CERTIFY THAT I, RONALD F. HODGEN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, (WE, RUETTIGER, TONELLI & ASSOCIATES, AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 89,) HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 27, TOWNSHIP 40 NORTH, RANGE 8 EAST OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS 30th DAY OF AUGUST 2011 A.D.
Ronald F. Hodgen
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2630
LICENSE EXPIRATION DATE: 11-30-2012
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



RUETTIGER, TONELLI & ASSOCIATES, INC.
Land Surveyors/Engineers/Planners/Landscape Architects/G.I.S. Consultants
2174 ONEIDA STREET
JOLIET, ILLINOIS 60435
PH. (815) 744-6600 FAX (815) 744-0101

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FAP 307 (IL 64)

SECTION: COUNTY: KANE
PROJECT: JOB NO.: R91-042-01
STATION 73+00 TO STATION 75+00
SCALE: 1"=20' SHEET 29 OF 29

BUREAU OF LAND ACQUISITION SH. No. 109
201 WEST CENTER COURT OF 243
SCHAUMBURG, ILLINOIS 60196

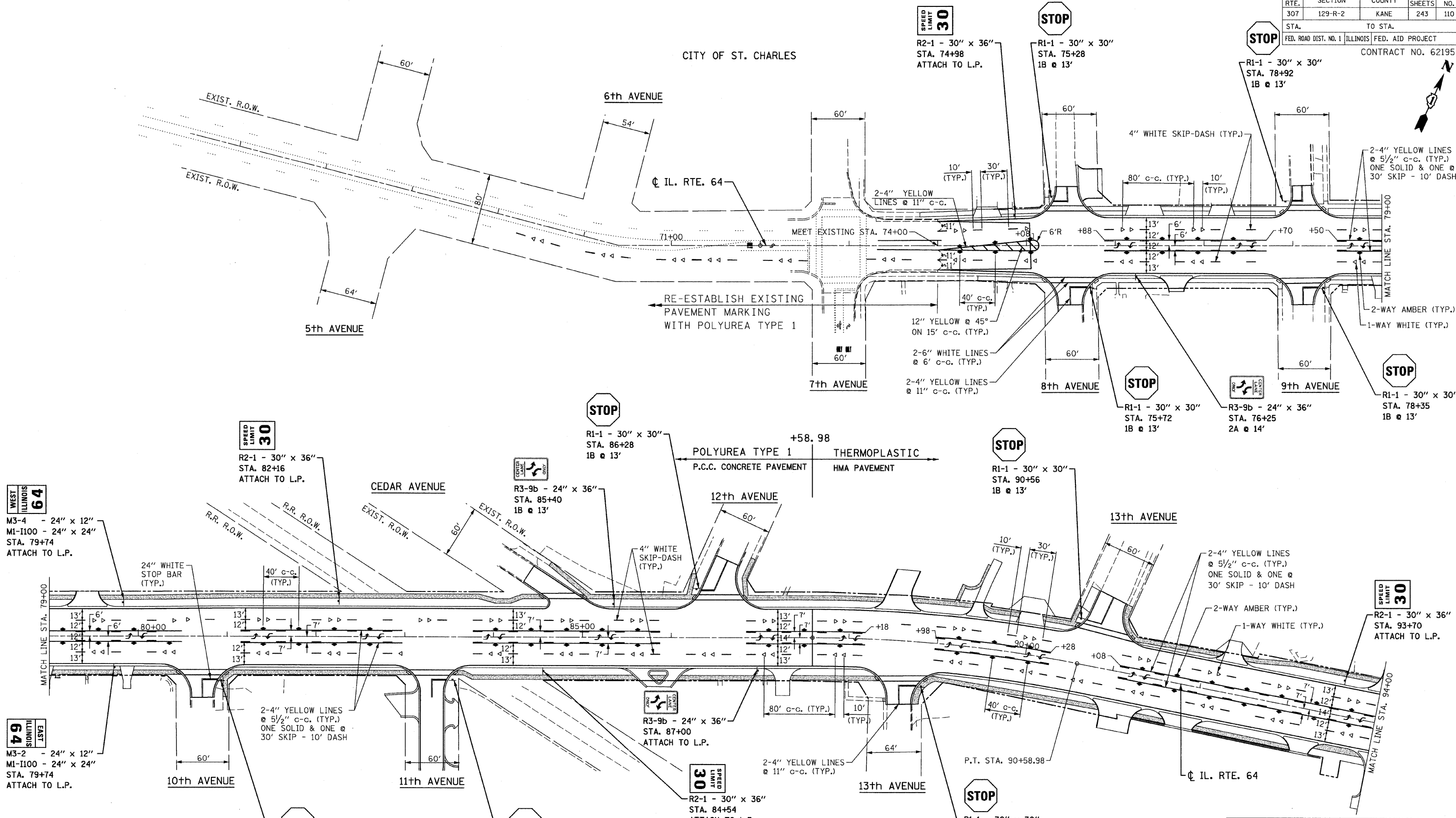
PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT		EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
						ACRES	SQUARE FEET			
IEC3201	HARRIS, N.A. AS SUCCESSOR TRUSTEE TO HARRIS TRUST AND SAVINGS BANK, AS TRUSTEE, SUCCESSOR TO HARRIS BANK ST. CHARLES, f/k/a STATE BANK OF ST. CHARLES, TRUST NO. LT-1824	0.174	N/A	N/A	0.174	0.003	121	CONST.	09-27-463-008	

NOTES:
1. THE COORDINATES SHOWN HEREON ARE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE NAD 83 (2007) AND ARE BASED ON PUBLISHED COORDINATES FOR NGS STATION "IL KANE 36 40 8" OF NORTH 1909269.18, EAST 999552.34. COMBINED SCALE FACTOR IS 0.9999943.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	110
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62195				



CITY OF ST. CHARLES



WEST ILLINOIS 64

M3-4 - 24" x 12"
M1-I100 - 24" x 24"
STA. 79+74
ATTACH TO L.P.

EAST ILLINOIS 64

M3-2 - 24" x 12"
M1-I100 - 24" x 24"
STA. 79+74
ATTACH TO L.P.

NOTE:
1. ALL PAVEMENT MARKINGS ARE THERMOPLASTIC UNLESS OTHERWISE NOTED.

CR & A
CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS-PLANNERS-SURVEYORS
211 WEST WACKER DRIVE
CHICAGO, ILLINOIS 60606
1-312-372-2023 FAX: 1-312-372-5274

REVISIONS	
NAME	DATE

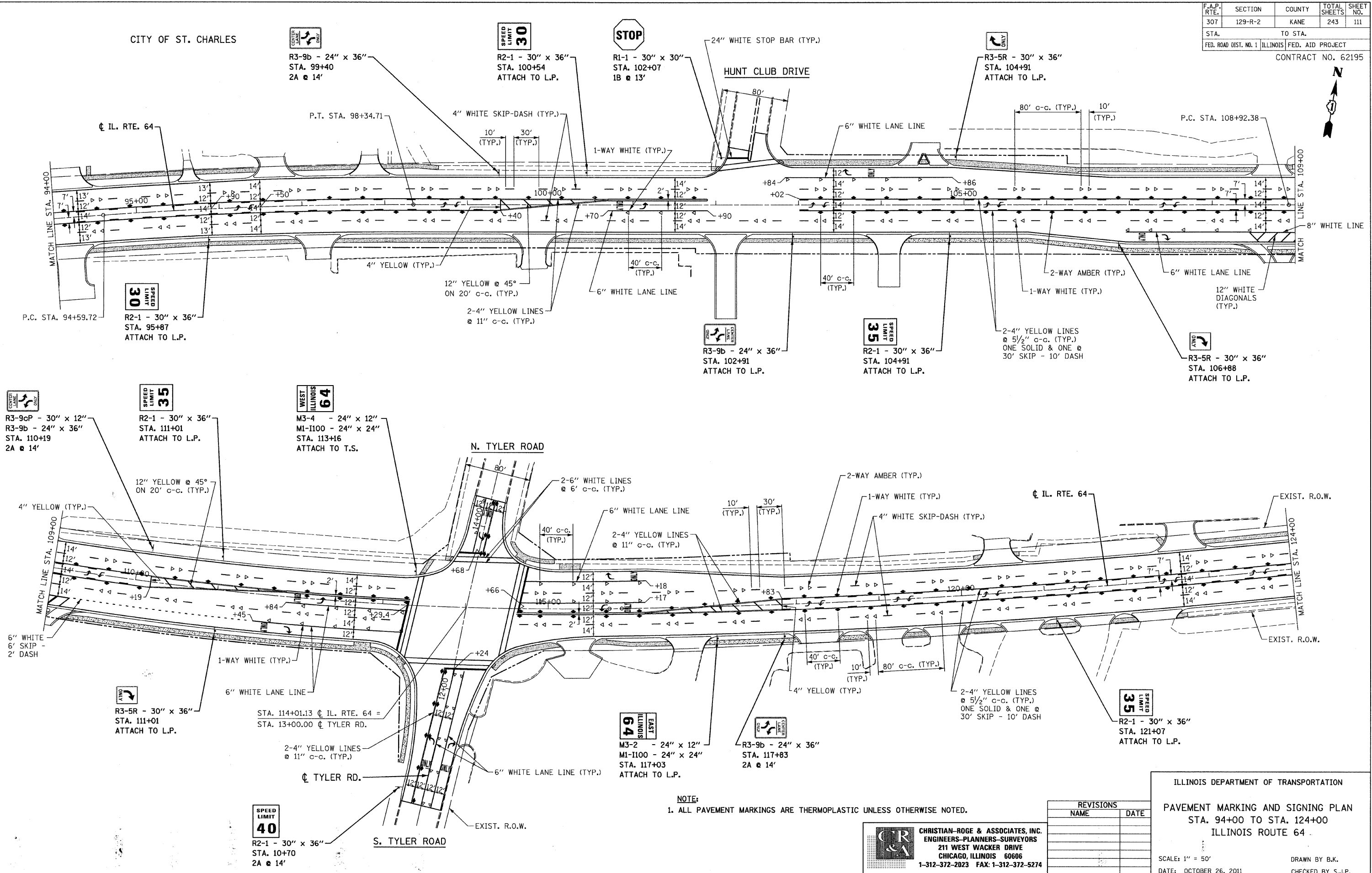
ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING AND SIGNING PLAN
STA. 71+00 TO STA. 94+00
ILLINOIS ROUTE 64
SCALE: 1" = 50'
DATE: OCTOBER 26, 2011
DRAWN BY B.K.
CHECKED BY S.J.P.

FILE NAME: r:\64\plan\64.dgn
PLOT DATE: 10/26/2011
PLOT SCALE: 50.000000 / IN.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	111
STA. TO STA.		CONTRACT NO. 62195		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



CITY OF ST. CHARLES



NOTE:
1. ALL PAVEMENT MARKINGS ARE THERMOPLASTIC UNLESS OTHERWISE NOTED.

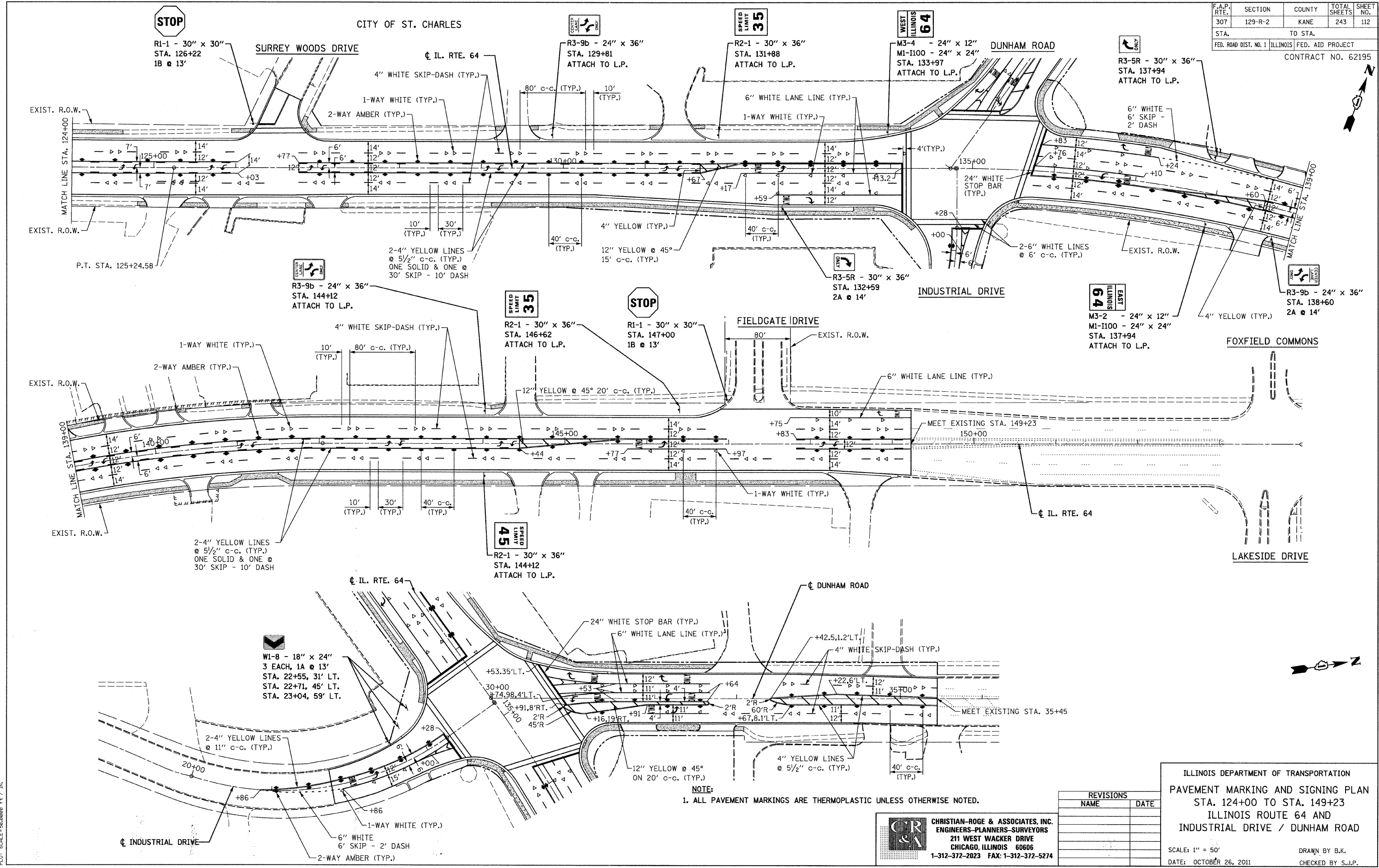
REVISIONS	
NAME	DATE

CR & A
CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS-PLANNERS-SURVEYORS
211 WEST WACKER DRIVE
CHICAGO, ILLINOIS 60606
1-312-372-2023 FAX: 1-312-372-5274

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING AND SIGNING PLAN
STA. 94+00 TO STA. 124+00
ILLINOIS ROUTE 64
SCALE: 1" = 50'
DATE: OCTOBER 26, 2011
DRAWN BY B.K.
CHECKED BY S.J.P.

FILE NAME: r1064p02.dgn
PLOT DATE: 10/26/2011
PLOT SCALE: 50.0000 Ft. / IN.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	112
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62195				



STOP
R1-1 - 30" x 30"
STA. 126+22
1B @ 13'

SPEED LIMIT 35

WEST ILLINOIS 64

ONLY

R3-5R - 30" x 36"
STA. 137+94
ATTACH TO L.P.

R3-9b - 24" x 36"
STA. 129+81
ATTACH TO L.P.

R2-1 - 30" x 36"
STA. 131+88
ATTACH TO L.P.

M3-4 - 24" x 12"
M1-I100 - 24" x 24"
STA. 133+97
ATTACH TO L.P.

LEFT TURN ONLY

R3-9b - 24" x 36"
STA. 144+12
ATTACH TO L.P.

SPEED LIMIT 35

STOP

R2-1 - 30" x 36"
STA. 146+62
ATTACH TO L.P.

R1-1 - 30" x 30"
STA. 147+00
1B @ 13'

64 EAST ILLINOIS

M3-2 - 24" x 12"
M1-I100 - 24" x 24"
STA. 137+94
ATTACH TO L.P.

RIGHT TURN ONLY

R3-9b - 24" x 36"
STA. 138+60
2A @ 14'

SPEED LIMIT 45

R2-1 - 30" x 36"
STA. 144+12
ATTACH TO L.P.

W1-8 - 18" x 24"
3 EACH, 1A @ 13'
STA. 22+55, 31' LT.
STA. 22+71, 45' LT.
STA. 23+04, 59' LT.

NOTE:
1. ALL PAVEMENT MARKINGS ARE THERMOPLASTIC UNLESS OTHERWISE NOTED.

REVISIONS	
NAME	DATE

CR & A
CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS-PLANNERS-SURVEYORS
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CHICAGO, ILLINOIS 60606
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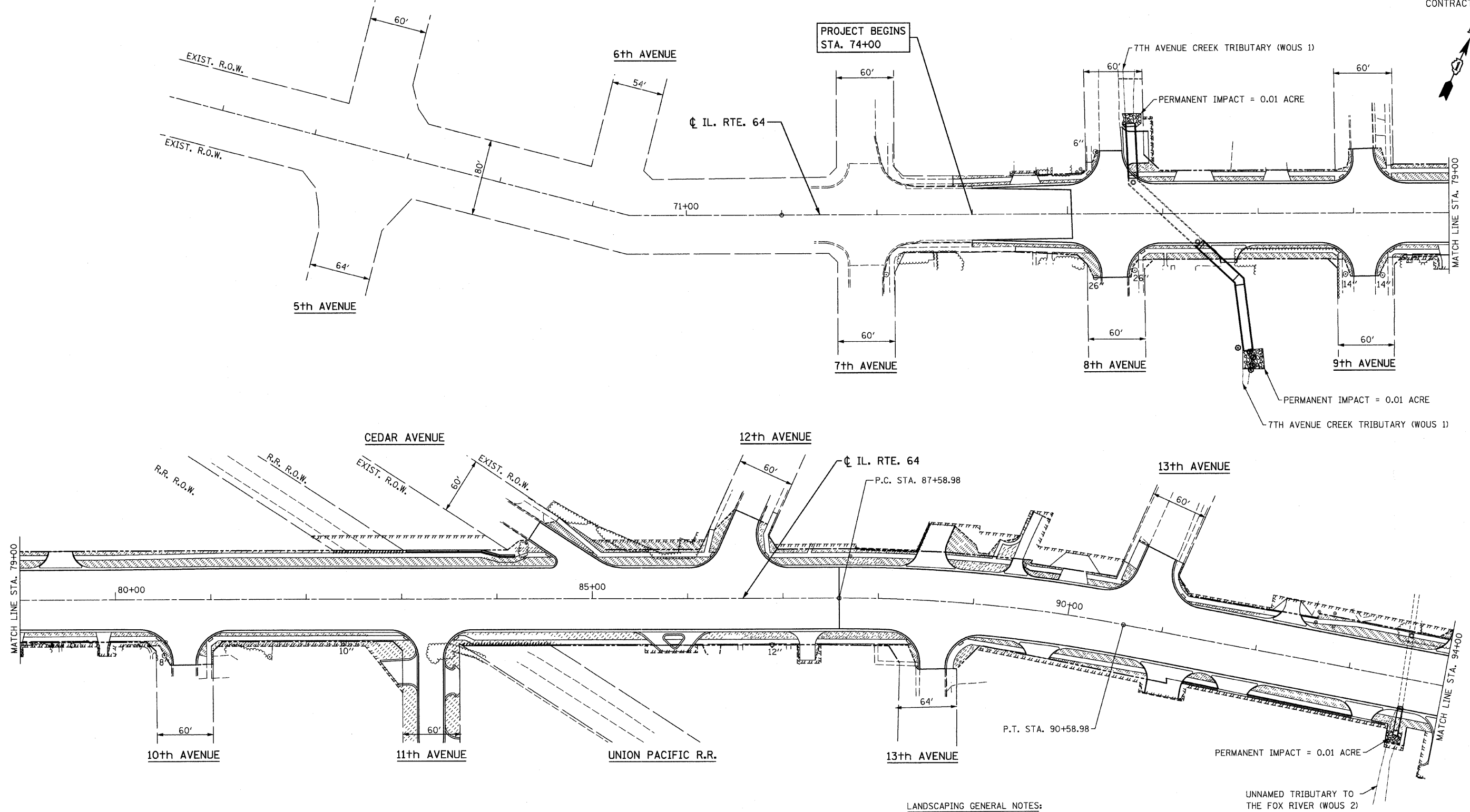
ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING AND SIGNING PLAN
STA. 124+00 TO STA. 149+23
ILLINOIS ROUTE 64 AND
INDUSTRIAL DRIVE / DUNHAM ROAD
SCALE: 1" = 50'
DATE: OCTOBER 26, 2011
DRAWN BY B.K.
CHECKED BY S.J.P.

FILE NAME: r:\64\m02.dgn
PLOT DATE: 10/26/2011
PLOT SCALE: 50.00000 Ft. / IN.





F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	113
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CITY OF ST. CHARLES

CONTRACT NO. 62195



LEGEND

-  SODDING (SALT TOLERANT)
-  6" EXIST. DECIDUOUS TREE (6" OR LARGER)
-  EXIST. TREE OR BUSH (SMALLER THAN 6")
-  EVERGREEN TREE

LANDSCAPING GENERAL NOTES:

1. THE CONTRACTOR SHALL INSTALL TEMPORARY FENCE AT THE DRIP LINE OF ALL TREES TO BE SAVED.
2. TREE ROOT PRUNING SHALL BE PERFORMED ADJACENT TO SIDEWALK AND CURB AND GUTTER INSTALLATION.

CR & A
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REVISIONS	
NAME	DATE

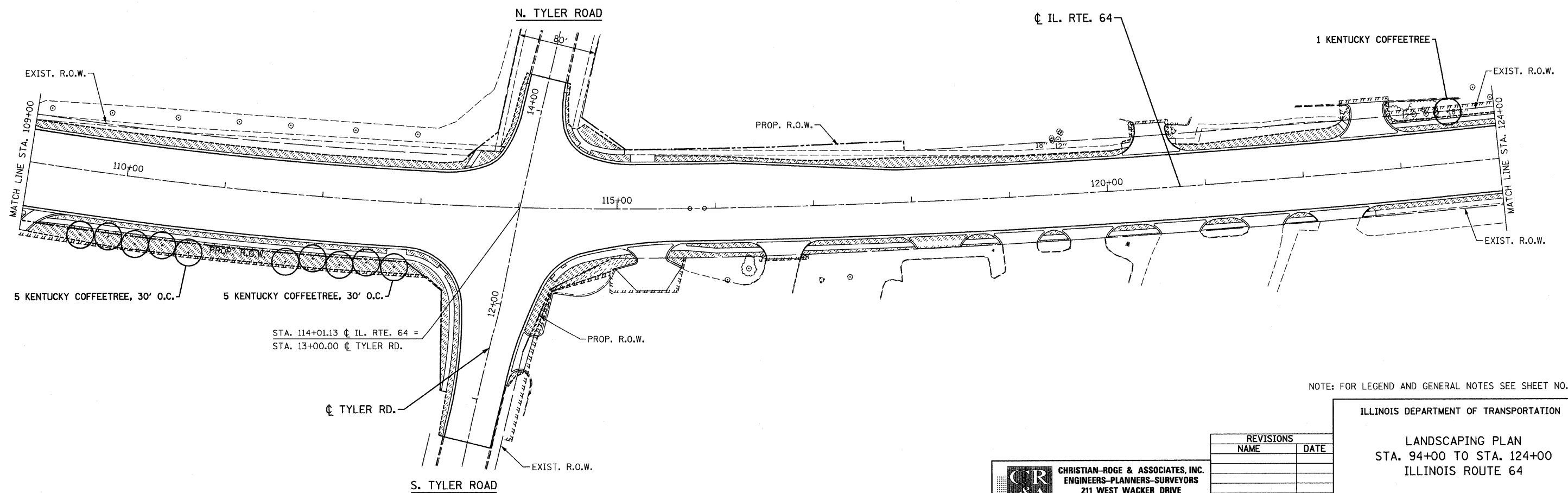
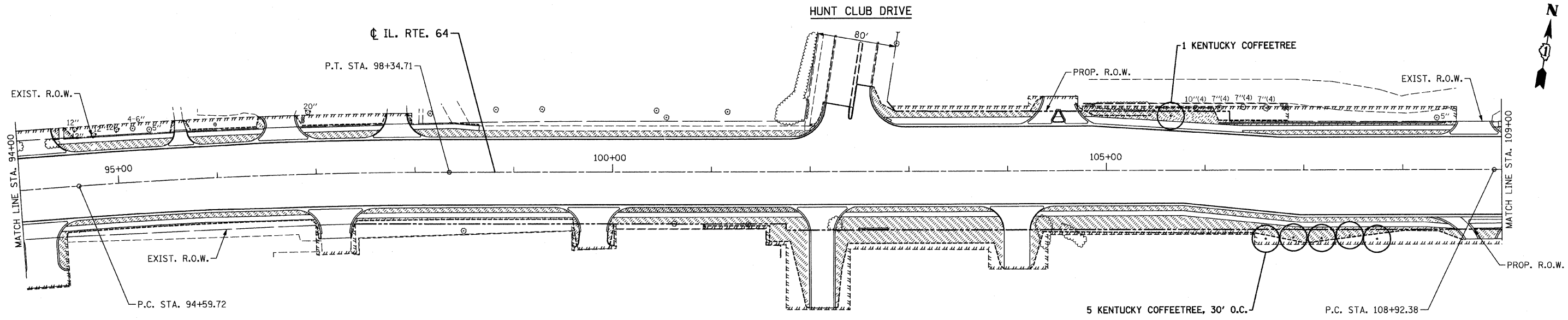
ILLINOIS DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
 STA. 71+00 TO STA. 94+00
 ILLINOIS ROUTE 64

SCALE: 1" = 50'
 DATE: AUGUST 10, 2011
 DRAWN BY B.K.
 CHECKED BY S.J.P.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	114
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62195				

CITY OF ST. CHARLES



NOTE: FOR LEGEND AND GENERAL NOTES SEE SHEET NO.

CR & A
CHRISTIAN-ROGE & ASSOCIATES, INC.
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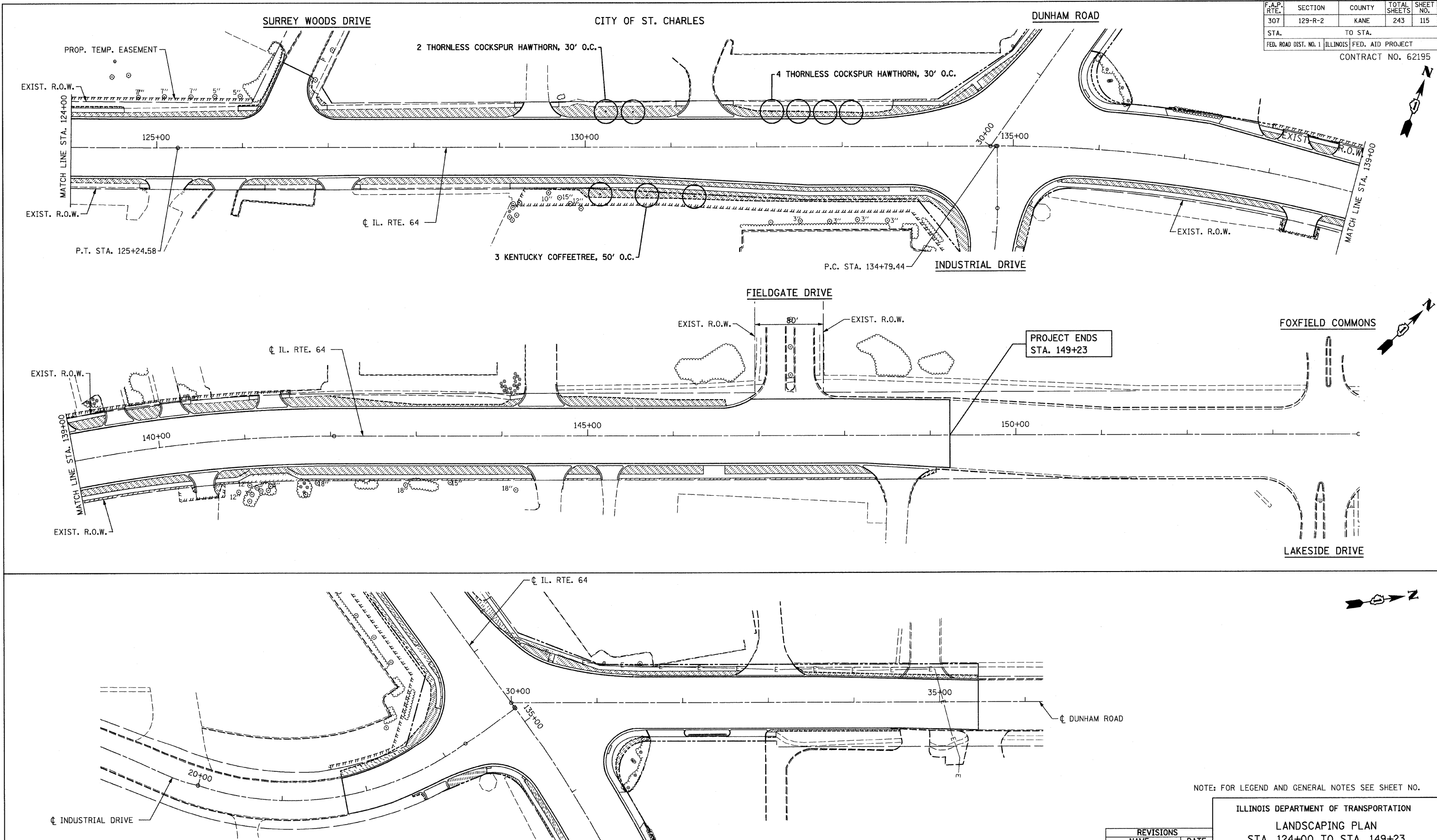
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
 STA. 94+00 TO STA. 124+00
 ILLINOIS ROUTE 64

SCALE: 1" = 50'
 DATE: AUGUST 10, 2011
 DRAWN BY B.K.
 CHECKED BY S.J.P.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	115
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62195				



NOTE: FOR LEGEND AND GENERAL NOTES SEE SHEET NO.

ILLINOIS DEPARTMENT OF TRANSPORTATION
 LANDSCAPING PLAN
 STA. 124+00 TO STA. 149+23
 ILLINOIS ROUTE 64 AND
 INDUSTRIAL DRIVE / DUNHAM ROAD

SCALE: 1" = 50'
 DATE: AUGUST 10, 2011
 DRAWN BY B.K.
 CHECKED BY S.J.P.

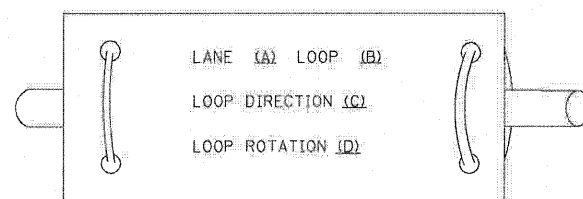
CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 1-312-372-2023 FAX: 1-312-372-5274

REVISIONS	
NAME	DATE

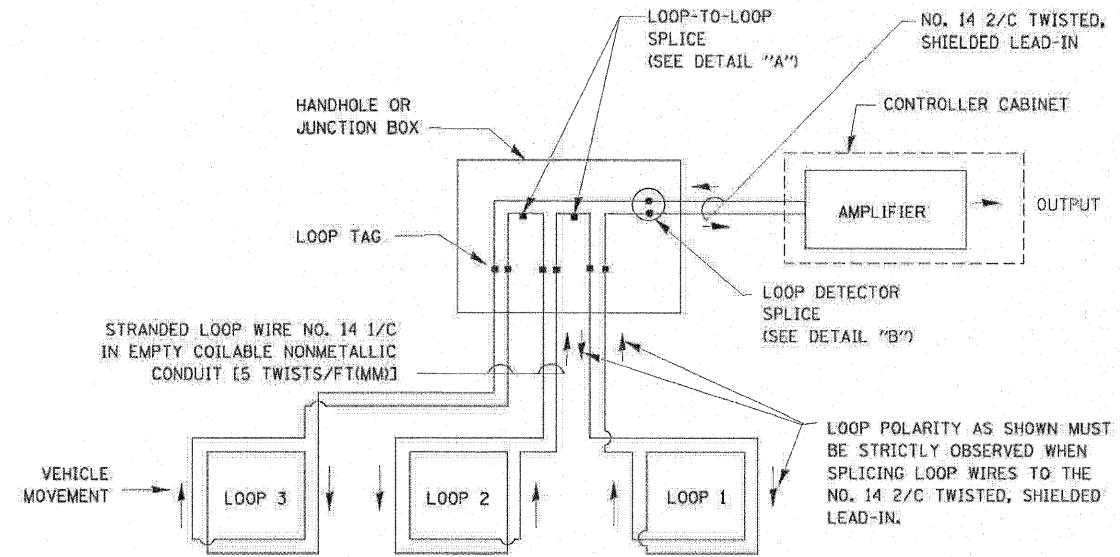
LOOP DETECTOR NOTES

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

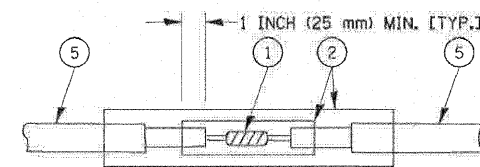


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY.
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

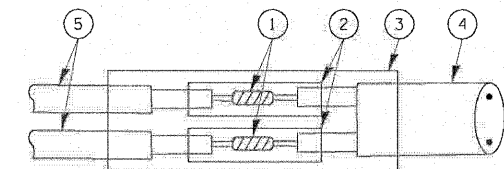


DETECTOR LOOP WIRING SCHEMATIC

- 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.

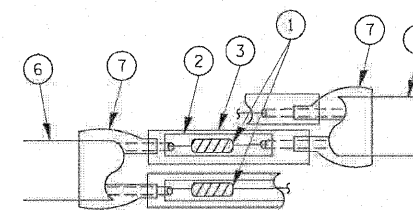


**DETAIL "A"
LOOP-TO-LOOP SPLICE**

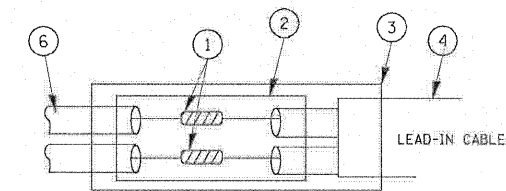


**DETAIL "B"
LOOP-TO-CONTROLLER SPLICE**

TYPE I LOOP



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



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

PREFORMED LOOP

LOOP DETECTOR SPLICE

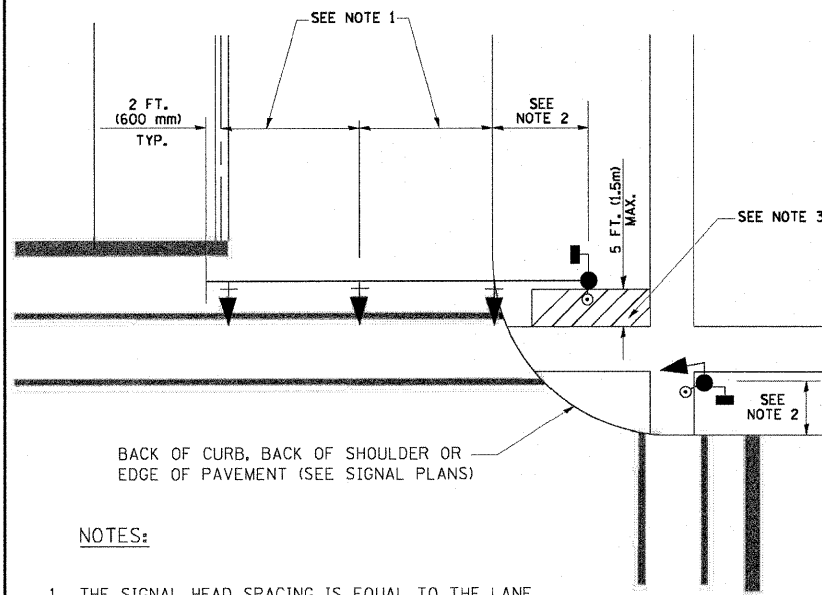
- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED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

FILE NAME =	USER NAME = *USER*	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS - SHEET 1 OF 6			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
*FILE#		DRAWN - DW	REVISED -		SCALE: NONE	SHEET NO.	OF	SHEETS	STA.	TO STA.	307	129 R-2	KANE	243	116
		CHECKED - JS	REVISED -												
		DATE -	REVISED -												
													CONTRACT NO. 62195		
													ILLINOIS FED. AID PROJECT		

CIVIL ENGINEERING CONSULTANTS
RWIA
 Regina Webster & Associates, Inc.
 8619 W. Bryn Mawr Ave., Suite 602
 Chicago, IL 60631-3551
 773-283-2600 Fax: 773-283-2602
 www.RWIAengineers.com

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

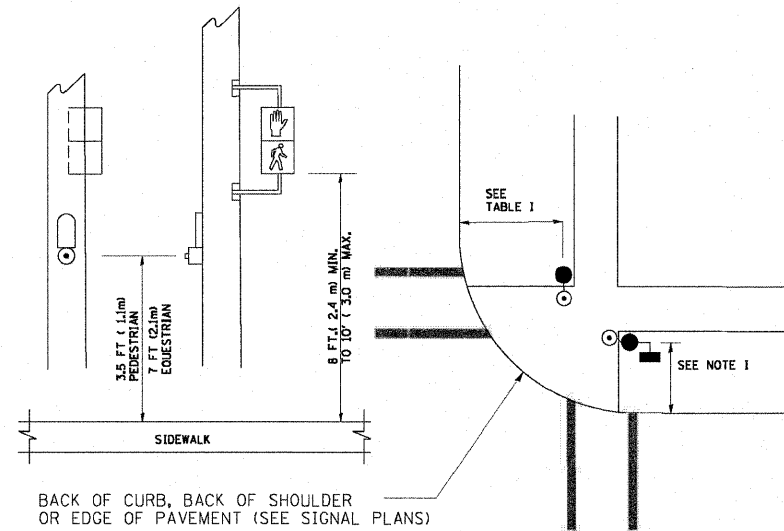
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA, INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

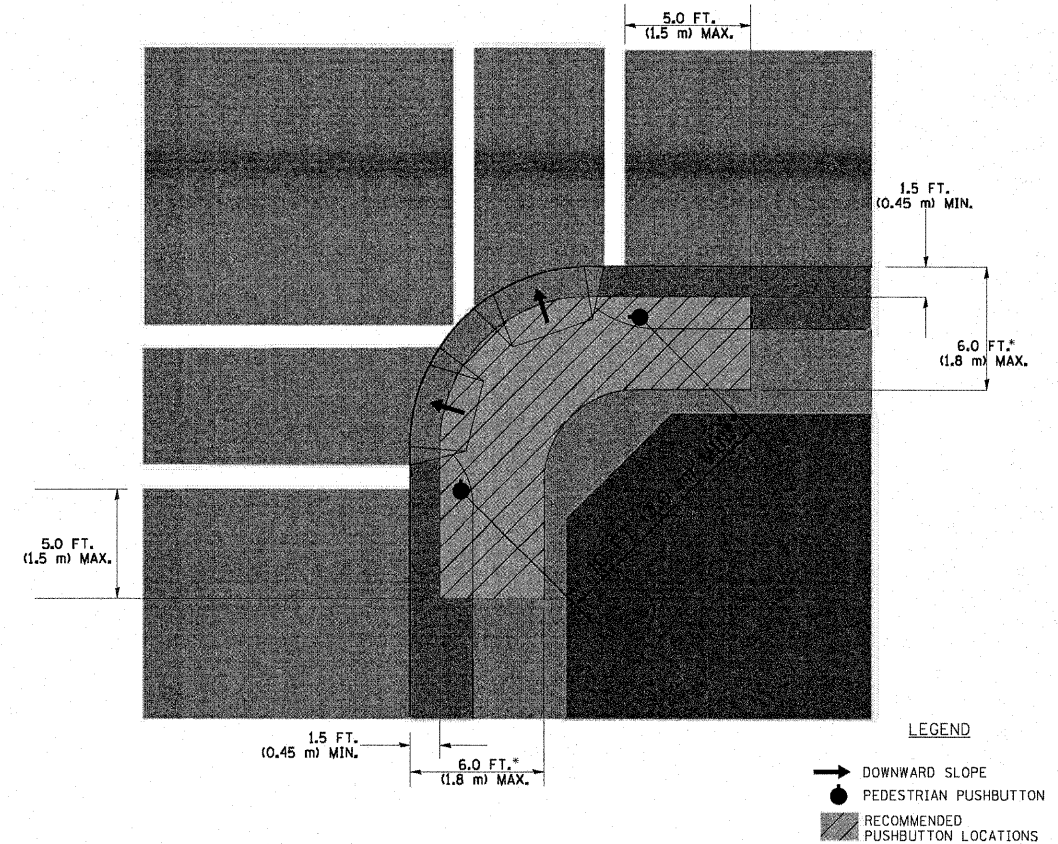
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



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

NOTES:

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

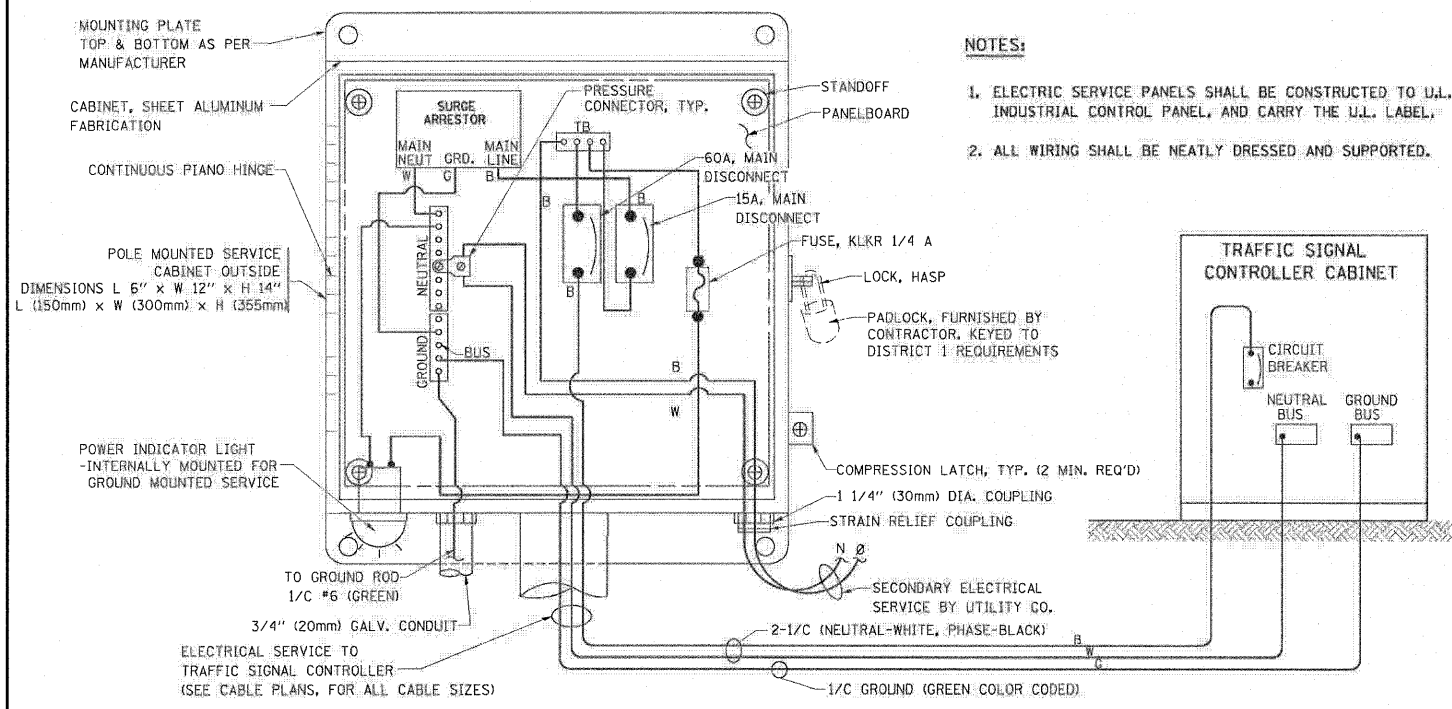
TRAFFIC SIGNAL EQUIPMENT OFFSET

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

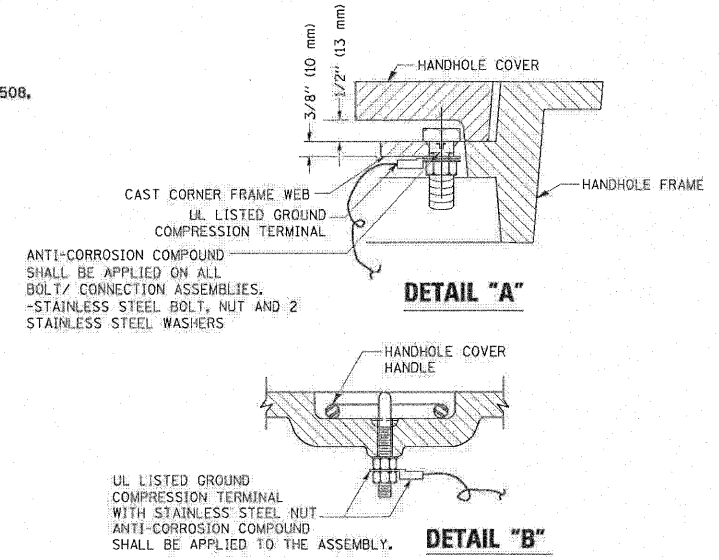
NOTES:

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

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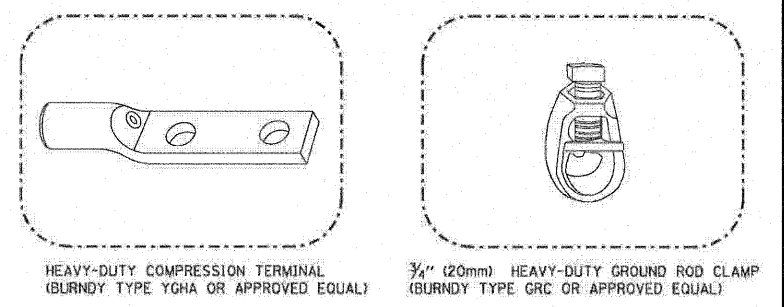
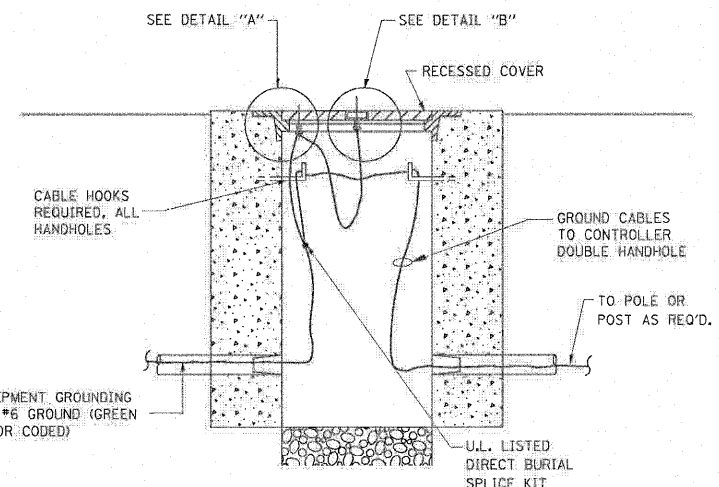


- NOTES:**
1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
 2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

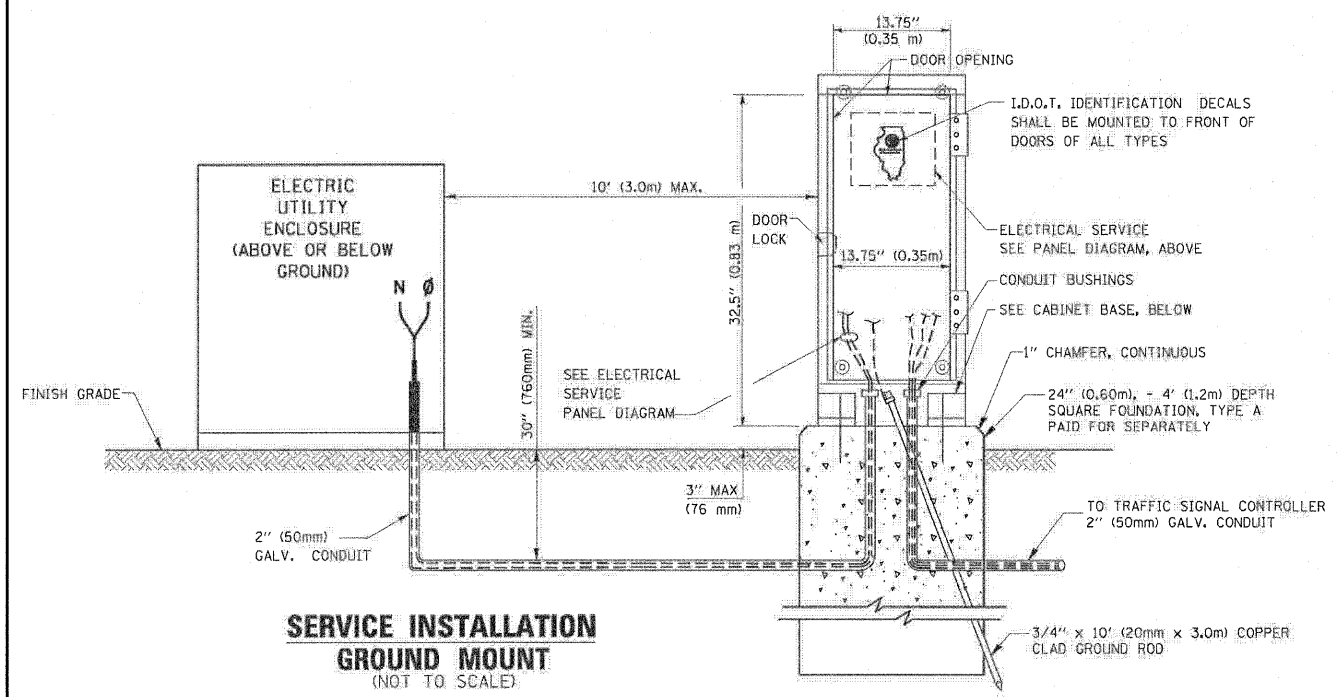


- NOTES:**
- GROUNDING SYSTEM**
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED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

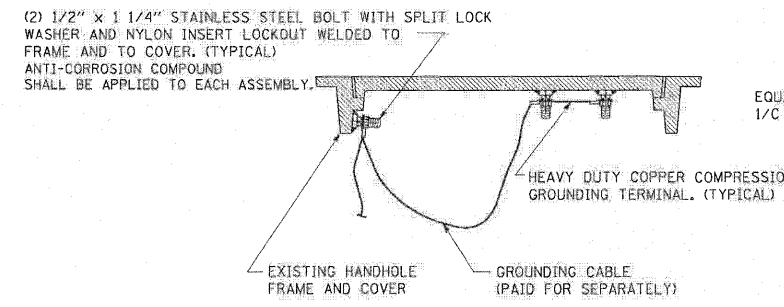
ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)



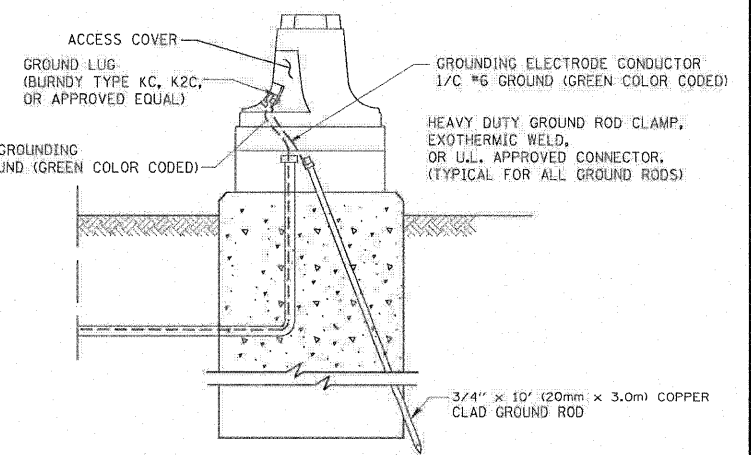
- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)

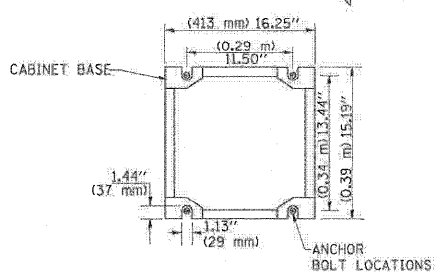


EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)



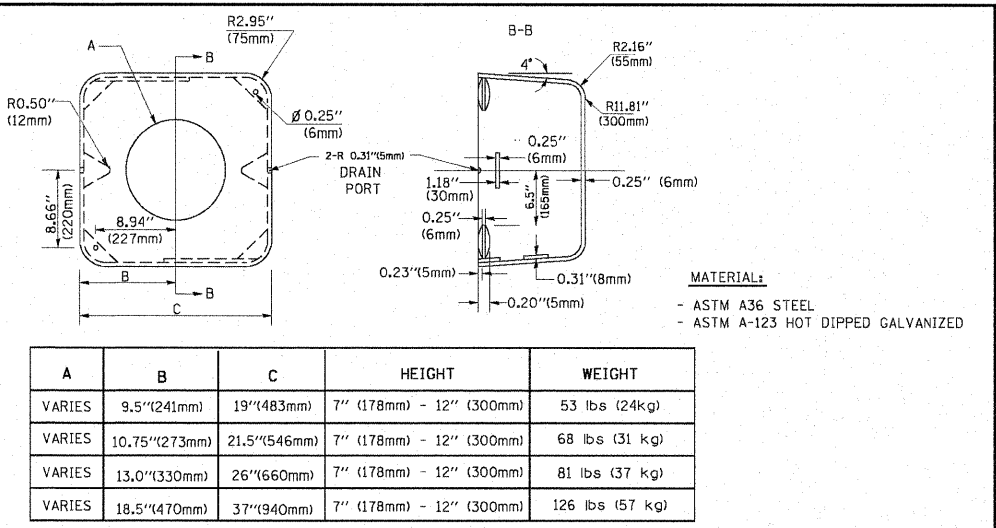
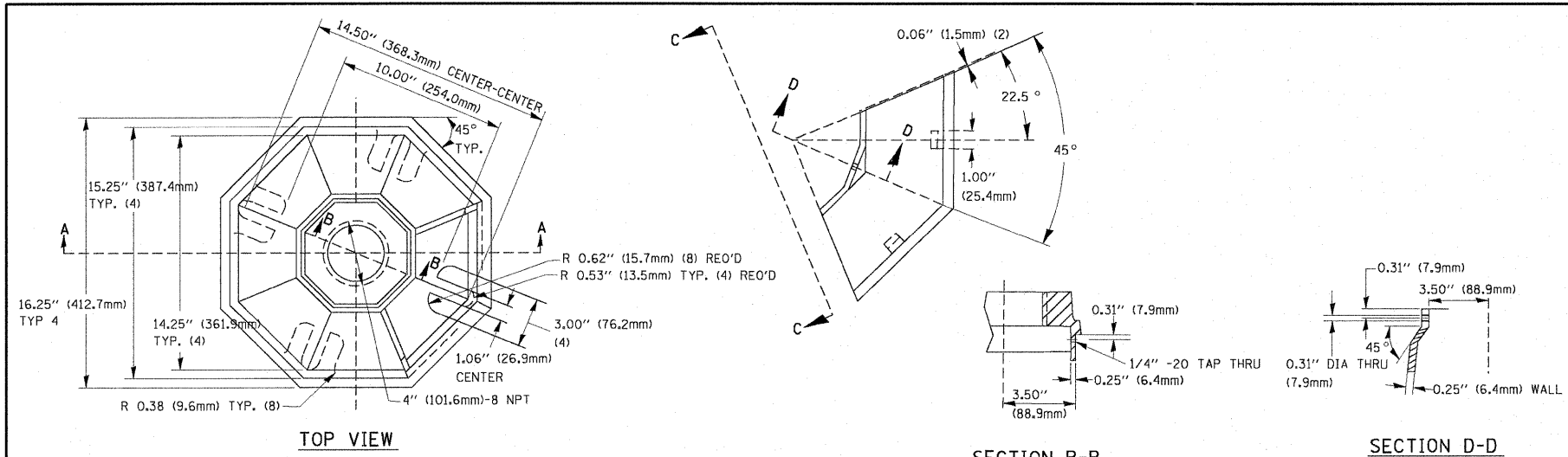
MAST ARM POLE / POST-GROUNDING DETAIL (NOT TO SCALE)

CABINET - BASE BOLT PATTERN (NOT TO SCALE)



FILE NAME =	USER NAME = #USER*	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS - SHEET 3 OF 6			F.A. RTE. 307	SECTION 129 R-2	COUNTY KANE	TOTAL SHEETS 243	SHEET NO. 118
#FILE#		DRAWN - DW	REVISED -		SCALE: NONE	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 62195				
		CHECKED - JS	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									

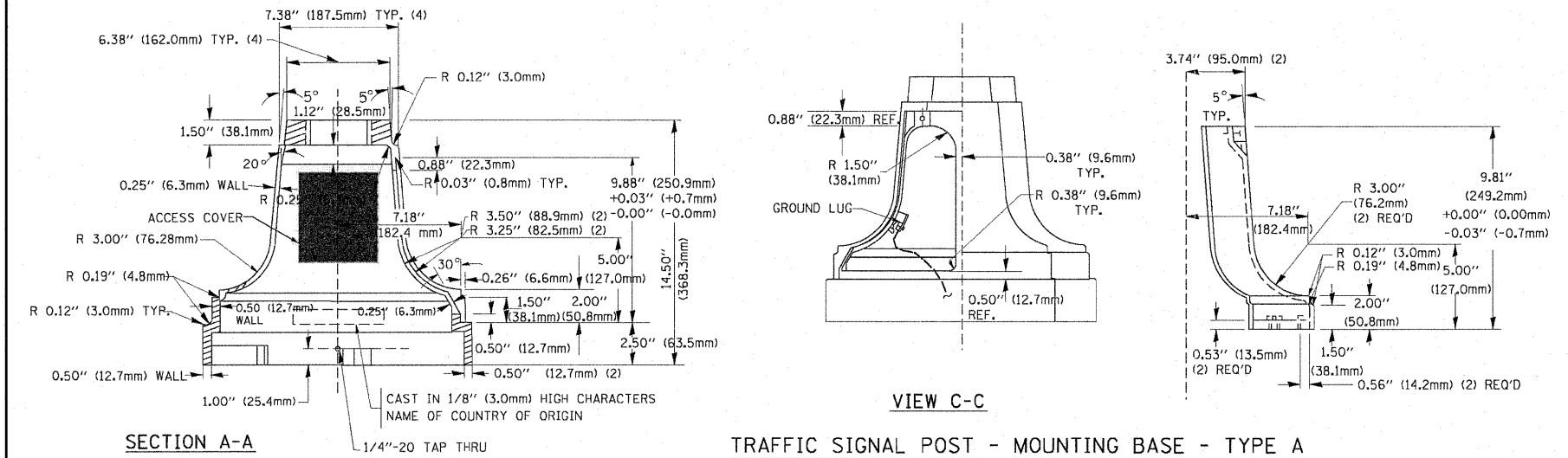
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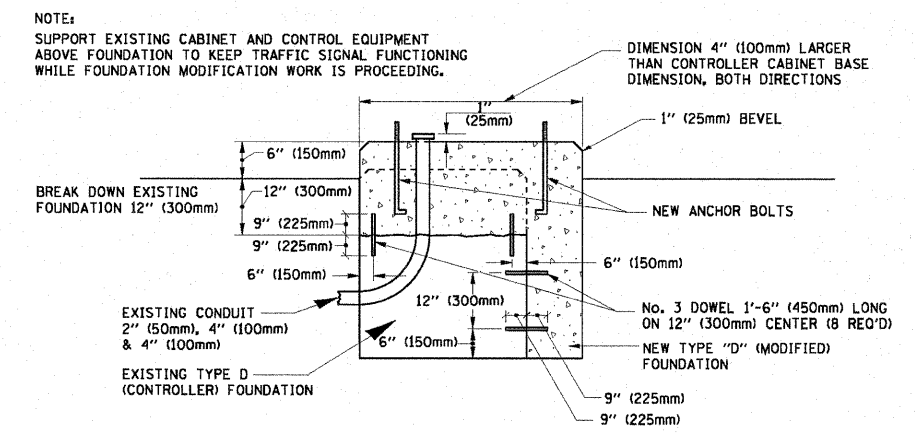
A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5\"(241mm)	19\"(483mm)	7\"(178mm) - 12\"(300mm)	53 lbs (24kg)
VARIABLES	10.75\"(273mm)	21.5\"(546mm)	7\"(178mm) - 12\"(300mm)	68 lbs (31 kg)
VARIABLES	13.0\"(330mm)	26\"(660mm)	7\"(178mm) - 12\"(300mm)	81 lbs (37 kg)
VARIABLES	18.5\"(470mm)	37\"(940mm)	7\"(178mm) - 12\"(300mm)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

SHROUD

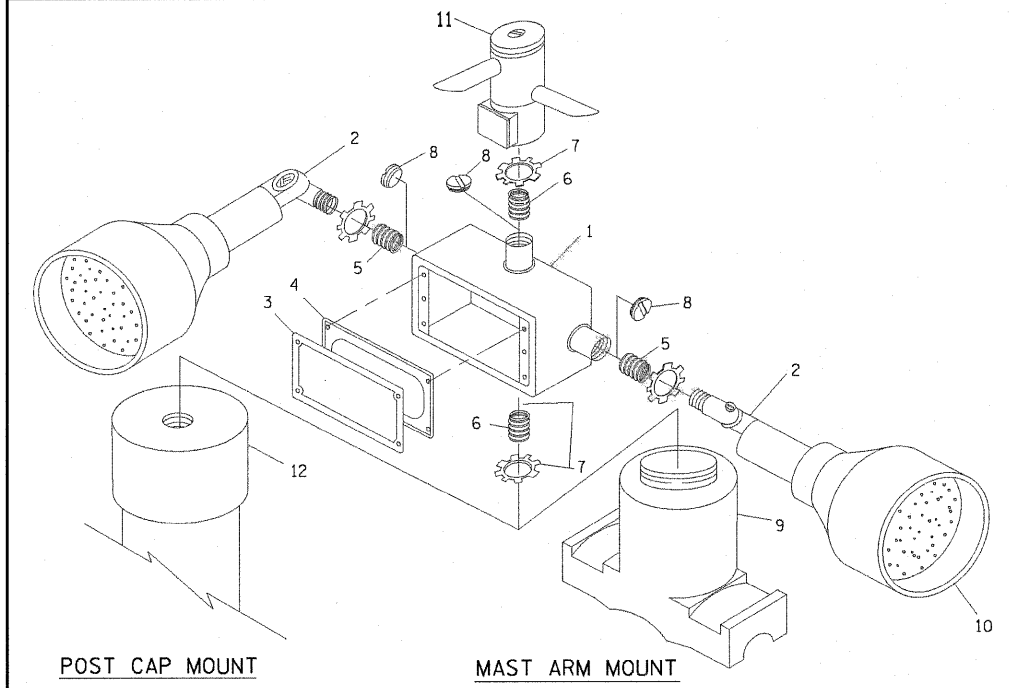
- NOTES:
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
 - THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
 - THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM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



TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



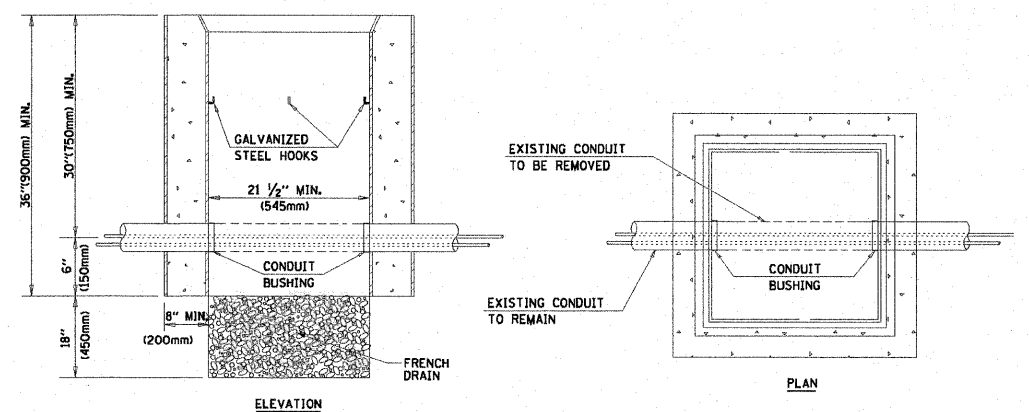
MODIFY EXISTING TYPE "D" FOUNDATION



EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

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

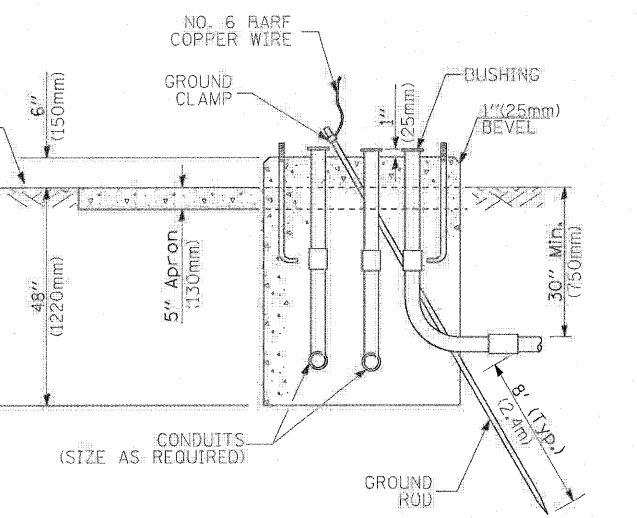
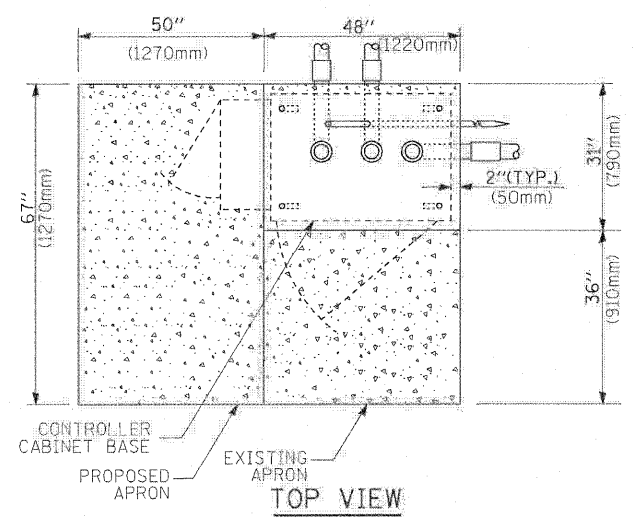
- NOTES:
- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
 - ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
 ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
 ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
 - WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED.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



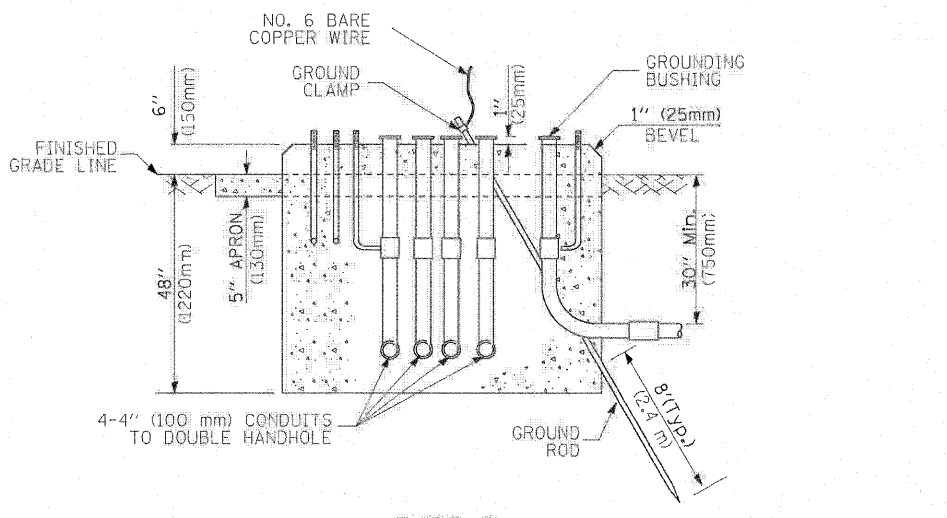
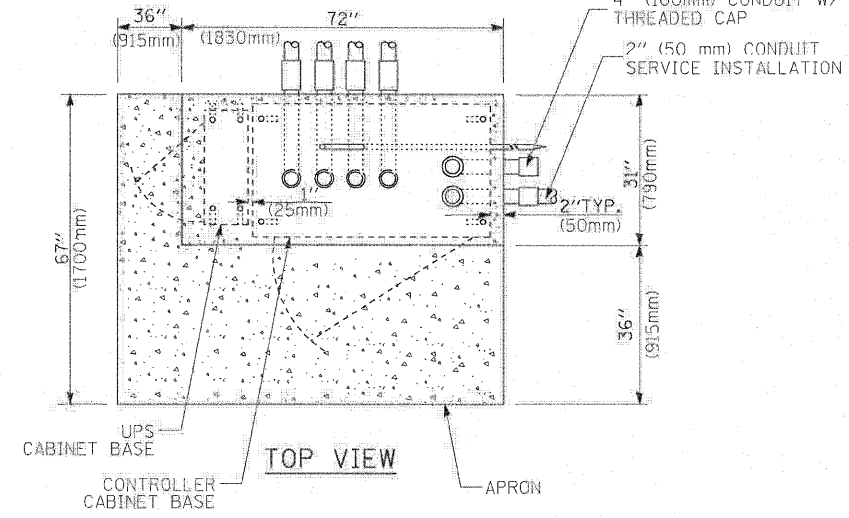
- NOTES:
- HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
 - REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

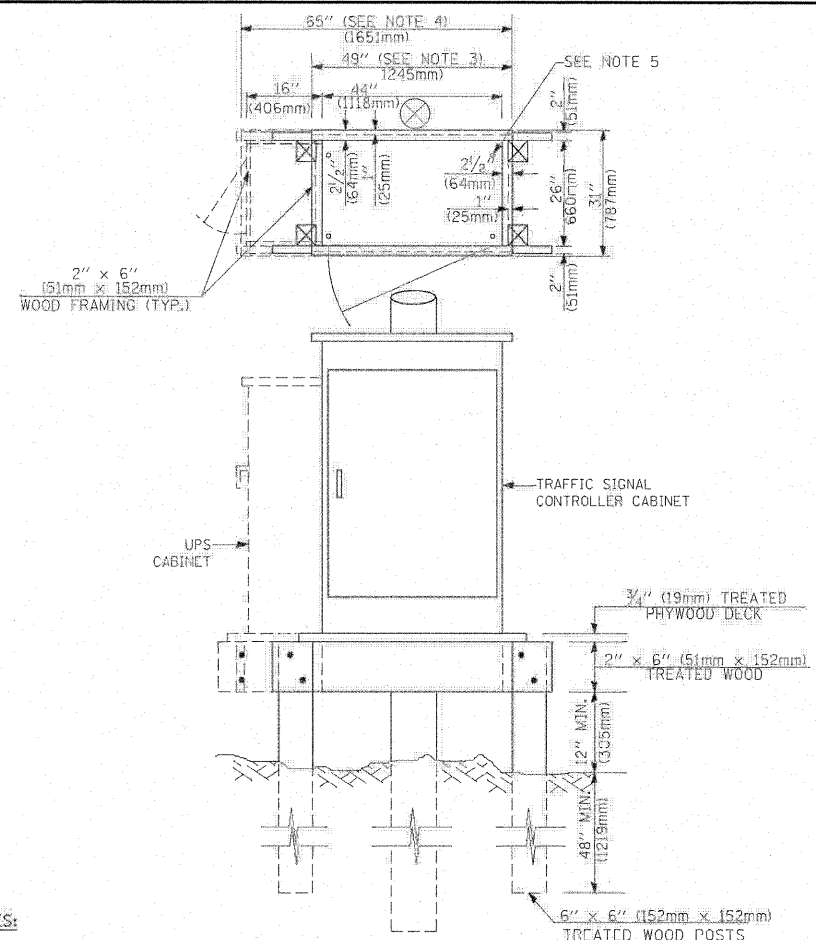
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TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



TYPE C
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



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

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

MAST ARM LENGTH	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 55' (16.8 m) and up to 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SMI2F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F SMI2F			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM		S	S	STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM		I	IP	ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
SIGNAL POST				REMOVE ITEM	R			STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM	RL			SIGNAL POST AND FOUNDATION TO BE REMOVED			
GUY WIRE				ABANDON ITEM	A			INTERSECTION & SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED							
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID							
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER							
ILLUMINATED SIGN "NO LEFT TURN"				RADIO INTERCONNECT							
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO REPEATER							
DETECTOR LOOP, TYPE I				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED							
PREFORMED DETECTOR LOOP				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)							
MICROWAVE VEHICLE SENSOR											
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											

RAILROAD SYMBOLS

	EXISTING	PROPOSED
RAILROAD CONTROL CABINET		
RAILROAD CANTILEVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

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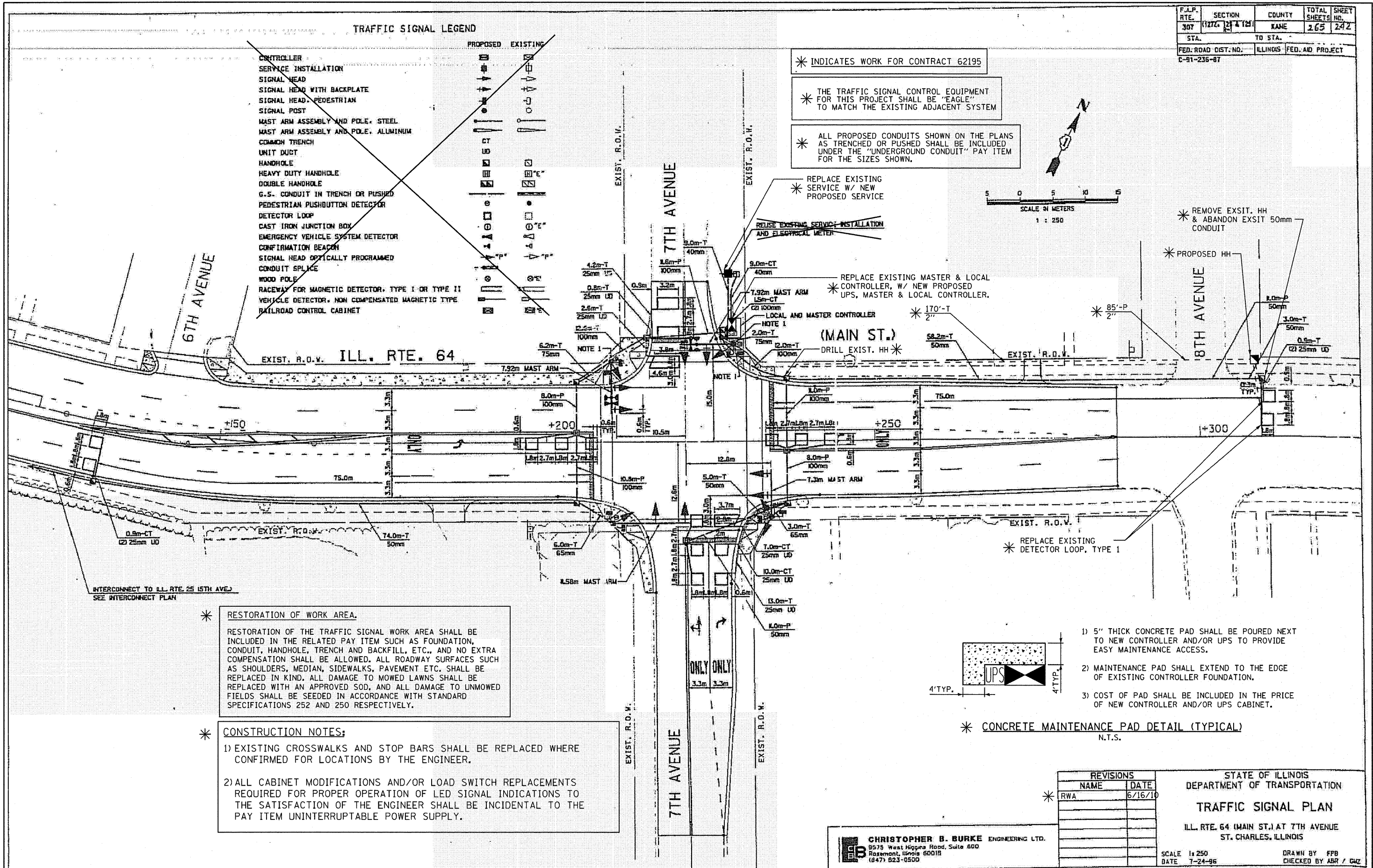
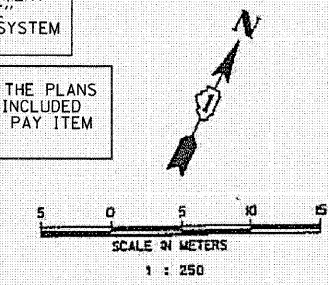
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 Regina Webster & Associates, Inc.
 8619 W. Bryn Mawr Ave., Suite 602
 Chicago, IL 60631-3551
 773-283-2600 Fax: 773-283-2602
 www.RWAengineers.com

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	127A	KANE	265	242
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
C-91-236-87				

TRAFFIC SIGNAL LEGEND

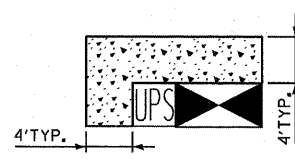
- | | | |
|--|----------|----------|
| CONTROLLER | PROPOSED | EXISTING |
| SERVICE INSTALLATION | | |
| SIGNAL HEAD | | |
| SIGNAL HEAD WITH BACKPLATE | | |
| SIGNAL HEAD - PEDESTRIAN | | |
| SIGNAL POST | | |
| MAST ARM ASSEMBLY AND POLE, STEEL | | |
| MAST ARM ASSEMBLY AND POLE, ALUMINUM | | |
| COMMON TRENCH | | |
| UNIT DUCT | | |
| HANDHOLE | | |
| HEAVY DUTY HANDHOLE | | |
| DOUBLE HANDHOLE | | |
| G.S. CONDUIT IN TRENCH OR PUSHED | | |
| PEDESTRIAN PUSHBUTTON DETECTOR | | |
| DETECTOR LOOP | | |
| CAST IRON JUNCTION BOX | | |
| EMERGENCY VEHICLE SYSTEM DETECTOR | | |
| CONFIRMATION BEACON | | |
| SIGNAL HEAD OPTICALLY PROGRAMMED | | |
| CONDUIT SPLICE | | |
| WOOD POLE | | |
| RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II | | |
| VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE | | |
| RAILROAD CONTROL CABINET | | |

- * INDICATES WORK FOR CONTRACT 62195
- * THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM
- * ALL PROPOSED CONDUITS SHOWN ON THE PLANS AS TRENCHED OR PUSHED SHALL BE INCLUDED UNDER THE "UNDERGROUND CONDUIT" PAY ITEM FOR THE SIZES SHOWN.



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

* CONSTRUCTION NOTES:
 1) EXISTING CROSSWALKS AND STOP BARS SHALL BE REPLACED WHERE CONFIRMED FOR LOCATIONS BY THE ENGINEER.
 2) ALL CABINET MODIFICATIONS AND/OR LOAD SWITCH REPLACEMENTS REQUIRED FOR PROPER OPERATION OF LED SIGNAL INDICATIONS TO THE SATISFACTION OF THE ENGINEER SHALL BE INCIDENTAL TO THE PAY ITEM UNINTERRUPTABLE POWER SUPPLY.



* CONCRETE MAINTENANCE PAD DETAIL (TYPICAL)
 N.T.S.

- 1) 5" THICK CONCRETE PAD SHALL BE POURED NEXT TO NEW CONTROLLER AND/OR UPS TO PROVIDE EASY MAINTENANCE ACCESS.
- 2) MAINTENANCE PAD SHALL EXTEND TO THE EDGE OF EXISTING CONTROLLER FOUNDATION.
- 3) COST OF PAD SHALL BE INCLUDED IN THE PRICE OF NEW CONTROLLER AND/OR UPS CABINET.

REVISIONS	
NAME	DATE
RWA	6/16/10

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL PLAN
 ILL. RTE. 64 (MAIN ST.) AT 7th AVENUE
 ST. CHARLES, ILLINOIS

CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500

SCALE 1:250
 DATE 7-24-96
 DRAWN BY FPB
 CHECKED BY ABR / GJZ

FILE NAME =	USER NAME = #USER#	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 64 (MAIN STREET) AT 7th AVENUE TRAFFIC SIGNAL MODERNIZATION PLAN	SCALE: NONE	SHEET NO. OF SHEETS	STA. TO STA.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - DW	REVISED -						307	129 R-2	KANE	243	122
	PLOT SCALE = #SCALE#	CHECKED - JS	REVISED -						ILLINOIS FED. AID PROJECT				
	PLOT DATE = #DATE#	DATE -	REVISED -						CONTRACT NO. 62195				

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	(127, 128 & 129)	KANE	265	243
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
C-91-236-87				

*** SCHEDULE OF QUANTITIES**

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	255
HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
* FULL-ACTUATED CONTROLLER AND CABINET, TYPE V, SPECIAL	EACH	1
** MASTER CONTROLLER (SPECIAL)	EACH	1
TRANSCIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	330
DRILL EXISTING HANDHOLE	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	7
DETECTOR LOOP, TYPE 1	FOOT	90
REMOVE EXISTING HANDHOLE	EACH	1
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNINTERRUPTABLE POWER SUPPLY SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, EQUIPMENT	FOOT	400
GROUNDING CONDUCTOR, NO. 6 1C	FOOT	400
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	9

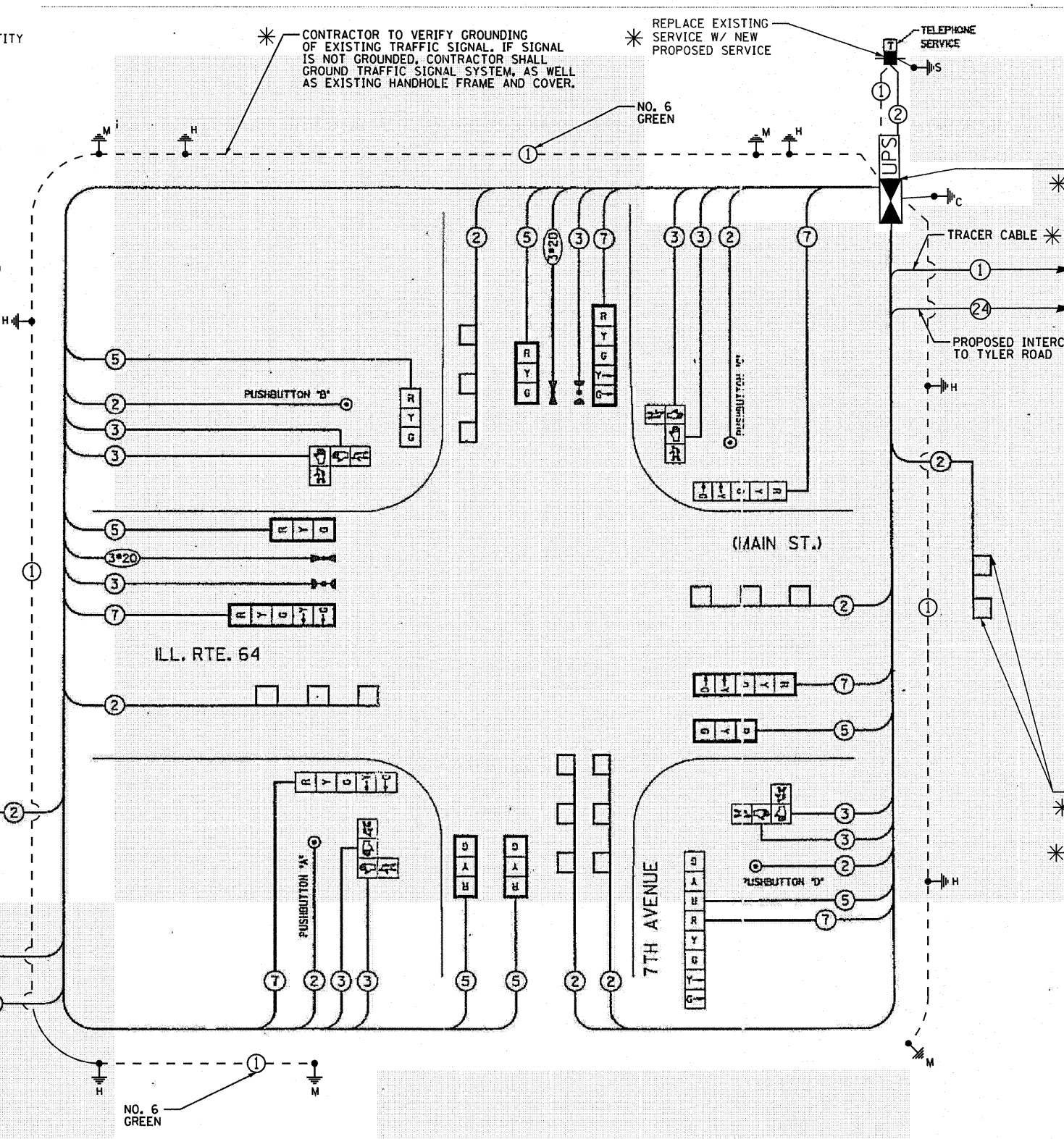
** - 100% COST TO CMAQ

* THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM

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

* AT LOCATIONS WHERE UPS IS INSTALLED AND EMERGENCY VEHICLE PRIORITY SYSTEM IS IN USE, ANY EXISTING INCANDESCENT CONFIRMATION BEACONS SHALL BE REPLACED WITH LED LAMPS IN ACCORDANCE WITH THE DISTRICT ONE EMERGENCY VEHICLE PRIORITY SYSTEM SPECIFICATION AT NO ADDITIONAL COST TO THE CONTRACT.

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CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
[Symbol]	[Symbol]	8" (200 mm) TRAFFIC SIGNAL SECTION
[Symbol]	[Symbol]	12" (300 mm) TRAFFIC SIGNAL SECTION
[Symbol]	[Symbol]	12" (300 mm) PEDESTRIAN SIGNAL SECTION
[Symbol]	[Symbol]	12" (300 mm) PEDESTRIAN SIGNAL SECTION
[Symbol]	[Symbol]	CONTROLLER CABINET
[Symbol]	[Symbol]	SERVICE INSTALLATION
[Symbol]	[Symbol]	VEHICLE DETECTOR, INDUCTION LOOP
[Symbol]	[Symbol]	MAGNETIC DETECTOR
[Symbol]	[Symbol]	EMERGENCY VEHICLE LIGHT DETECTOR
[Symbol]	[Symbol]	CONFIRMATION BEACON
[Symbol]	[Symbol]	PUSHBUTTON DETECTOR
[Symbol]	[Symbol]	DEPOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
[Symbol]	[Symbol]	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
[Symbol]	[Symbol]	NO. 62.5/125 12F FIBER OPTIC CABLE
[Symbol]	[Symbol]	TELEPHONE SERVICE

* REPLACE EXISTING DETECTOR LOOP, TYPE 1

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

THE PROPOSED CONTROLLERS MAY BE USED IN THE TEMPORARY SIGNAL CABINET IN ORDER TO PROVIDE PROGRESSION THROUGHOUT THE COMMUNITY DURING THE CONSTRUCTION. TWO INTERSECTIONS, ILL. RTE. 25 @ ILLINOIS AVE. AND ILL. RTE. 31 @ PRAIRIE ST. WILL NOT HAVE TEMPORARY SIGNALS. THE CONTROL EQUIPMENT FOR THESE INTERSECTIONS AS WELL AS ALL OTHER TEMPORARY SIGNALS SHALL BE TURNED ON SIMULTANEOUSLY TO GET PROGRESSION WITH TIME BASE COORDINATION.

NOTE:
 PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4.
 PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6.
 PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 5 AND 8.
 PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8.

* INDICATES WORK FOR CONTRACT 62195

REVISIONS	
NAME	DATE
RWA	6/16/10

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
SCHEDULE OF QUANTITIES AND CABLE PLAN
 ILL. RTE. 64 (MAIN ST.) AT 7TH AVENUE
 ST. CHARLES, ILLINOIS

SCALE: N.T.S. DATE: 7-24-96
 DRAWN BY: FPB / FCP
 CHECKED BY: ASB / CMZ

CHRISTOPHER B. BURKE ENGINEERING LTD.
 2575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0508

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#FILE#		DRAWN - DW	REVISED -
		CHECKED - JS	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 64 (MAIN STREET) AT 7th AVENUE
CABLE MODERNIZATION PLAN

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129 R-2	KANE	243	123
			CONTRACT NO. 62195	
[ILLINOIS] FED. AID PROJECT				

CONSTRUCTION NOTES:

- 1) RELOCATE EXISTING LIGHT DETECTORS AND CONFIRMATION BEACONS TO THE NEW MAST ARMS.
- 2) RELOCATE EXISTING LIGHT DETECTOR AMPLIFIER TO NEW CONTROLLER CABINET.

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

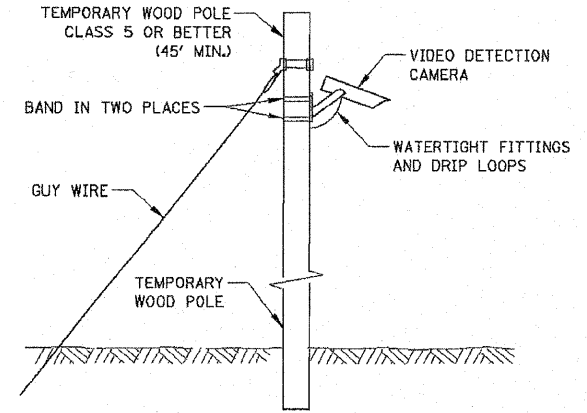
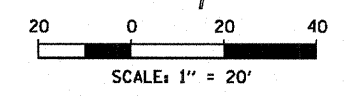
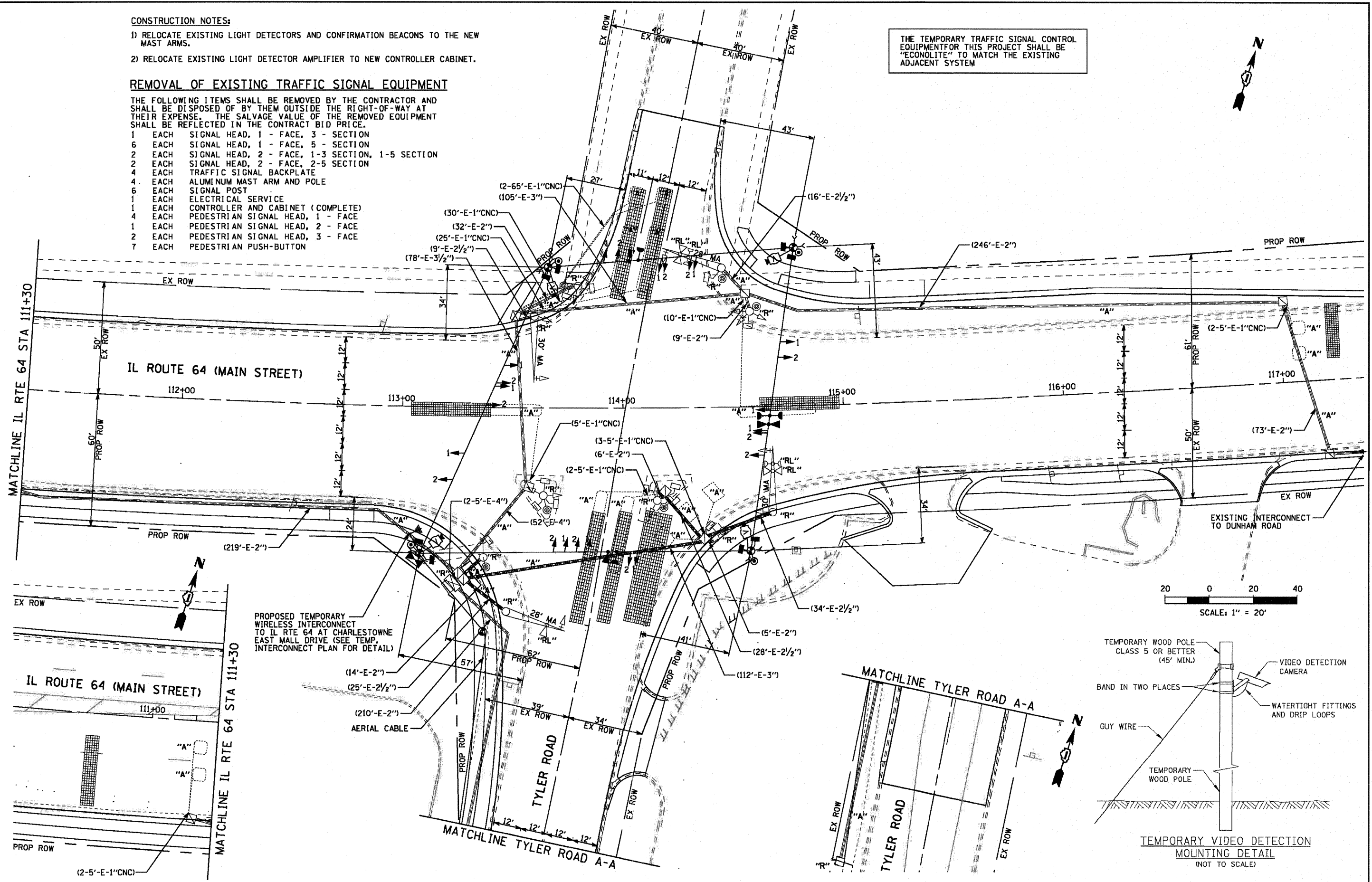
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- | | | |
|---|------|---|
| 1 | EACH | SIGNAL HEAD, 1 - FACE, 3 - SECTION |
| 6 | EACH | SIGNAL HEAD, 1 - FACE, 5 - SECTION |
| 2 | EACH | SIGNAL HEAD, 2 - FACE, 1-3 SECTION, 1-5 SECTION |
| 2 | EACH | SIGNAL HEAD, 2 - FACE, 2-5 SECTION |
| 4 | EACH | TRAFFIC SIGNAL BACKPLATE |
| 4 | EACH | ALUMINUM MAST ARM AND POLE |
| 6 | EACH | SIGNAL POST |
| 1 | EACH | ELECTRICAL SERVICE |
| 1 | EACH | CONTROLLER AND CABINET (COMPLETE) |
| 4 | EACH | PEDESTRIAN SIGNAL HEAD, 1 - FACE |
| 1 | EACH | PEDESTRIAN SIGNAL HEAD, 2 - FACE |
| 2 | EACH | PEDESTRIAN SIGNAL HEAD, 3 - FACE |
| 7 | EACH | PEDESTRIAN PUSH-BUTTON |

THE TEMPORARY TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM



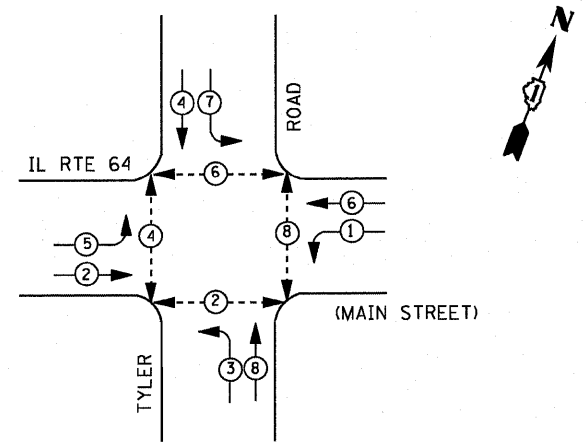
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#FILE#	PLOT SCALE = #SCALE#	DRAWN - DW	REVISED -			SCALE: 1"=20'-0"	SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT				
	PLOT DATE = #DATE#	CHECKED - JS	REVISED -									
		DATE -	REVISED -									
CONTRACT NO. 62195												

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TEMPORARY CONTROLLER SEQUENCE

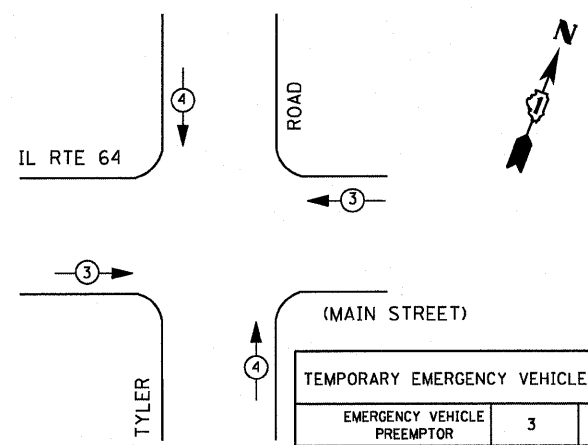


- LEGEND**
- ⊙* DUAL ENTRY PHASE
 - ⊙* PEDESTRIAN PHASE
 - * NUMBER REFERS TO ASSOCIATED PHASE
 - ⊙* OL OVERLAP

THE TEMPORARY TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM

TEMPORARY PHASE DESIGNATION DIAGRAM

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



NOTES FOR TEMPORARY TRAFFIC SIGNALS

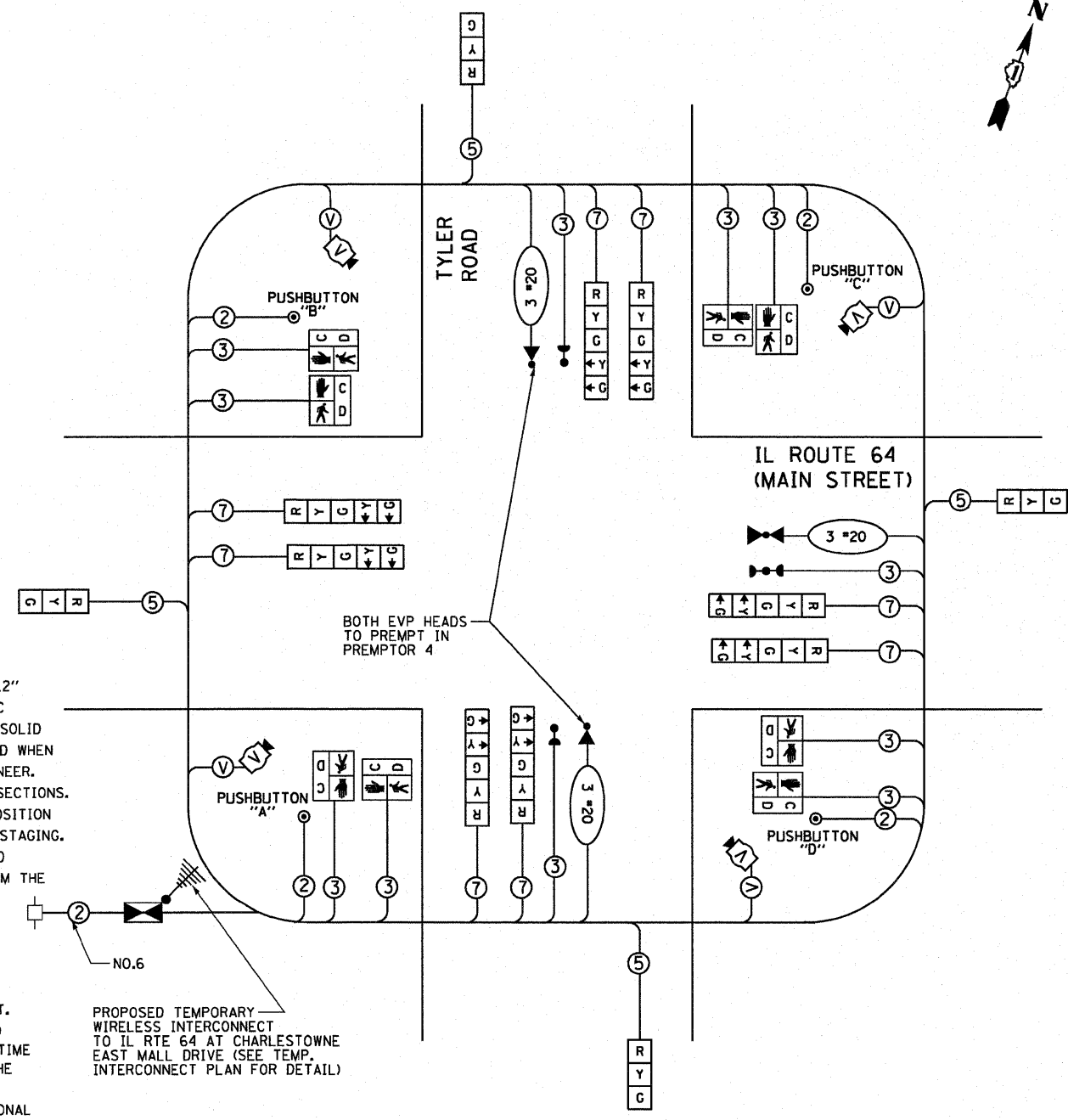
- 1) ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
- 2) ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- 3) ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT RAILROAD INTERSECTIONS. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
- 4) ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
- 5) ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
- 6) THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
- 7) UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEM SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
- 8) TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
- 9) DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
- 10) WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

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

TYPE	NO. LAMPS	WATTAGE		% OPERATIONS	TOTAL
		INCAND.	LED		
SIGNAL (RED)	12	135	17	0.50	102.00
(YELLOW)	12	135	25	0.25	75.00
(GREEN)	12	135	15	0.25	45.00
ARROW	16	135	12	0.10	19.20
PED. SIGNAL	8	90	25	1.00	200.00
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN		84		0.05	--
VIDEO SYSTEM	1	150	150	0.50	150.00
FLASHER LED					
TOTAL =					691.20

ENERGY COSTS- BILLED TO: IDOT DISTRICT 1
 201 WEST CENTER COURT
 SCHAMBURG, IL 60196-1096

ENERGY SUPPLY - CONTACT TOM BRUHL
 PHONE 630-377-4401
 COMPANY CITY OF ST. CHARLES



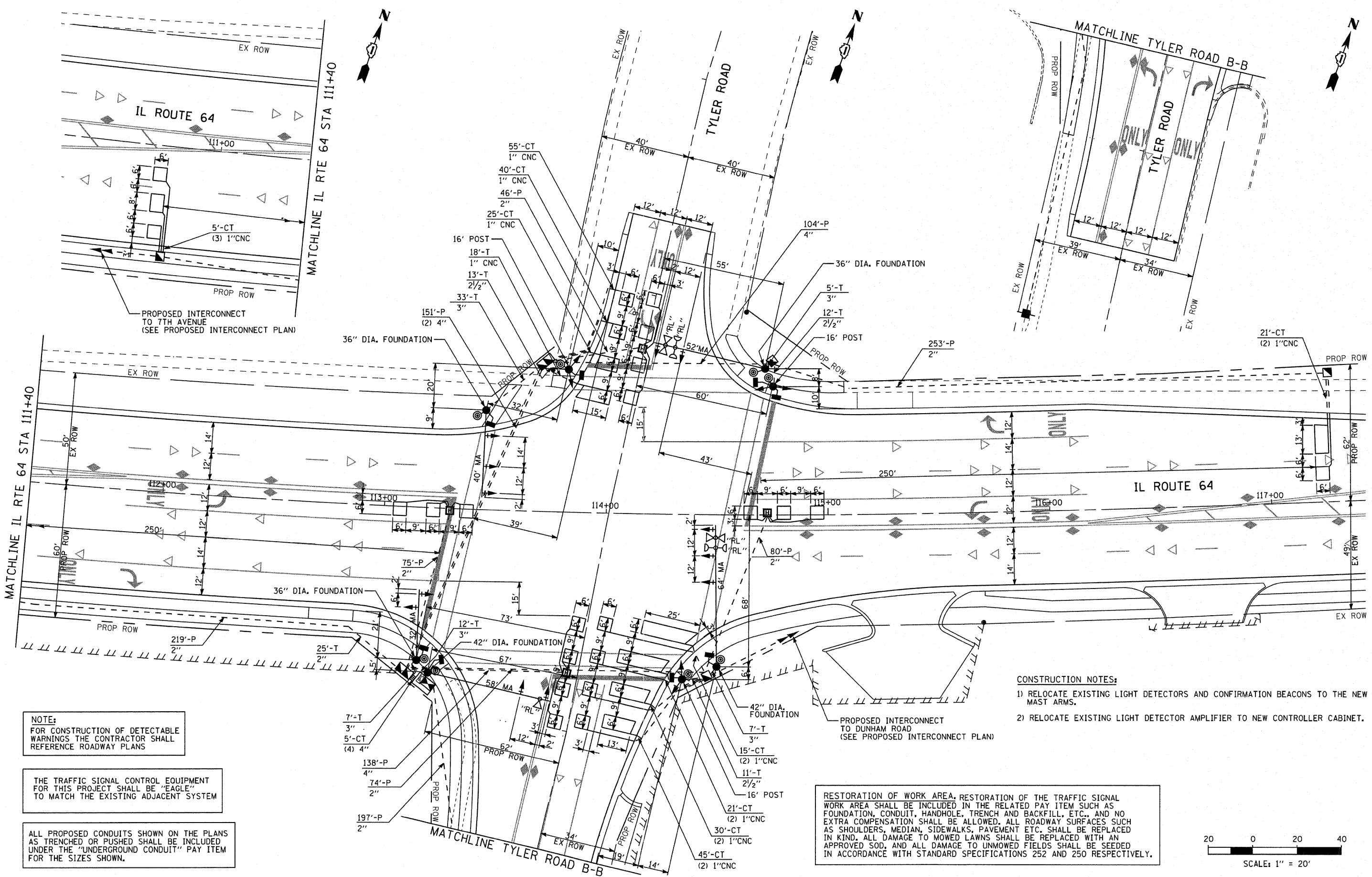
TEMPORARY CABLE PLAN FOR STAGE 1 & 2

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

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

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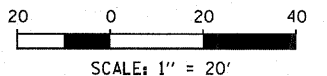
NOTE:
 FOR CONSTRUCTION OF DETECTABLE WARNINGS THE CONTRACTOR SHALL REFERENCE ROADWAY PLANS

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM

ALL PROPOSED CONDUITS SHOWN ON THE PLANS AS TRENCHED OR PUSHED SHALL BE INCLUDED UNDER THE "UNDERGROUND CONDUIT" PAY ITEM FOR THE SIZES SHOWN.

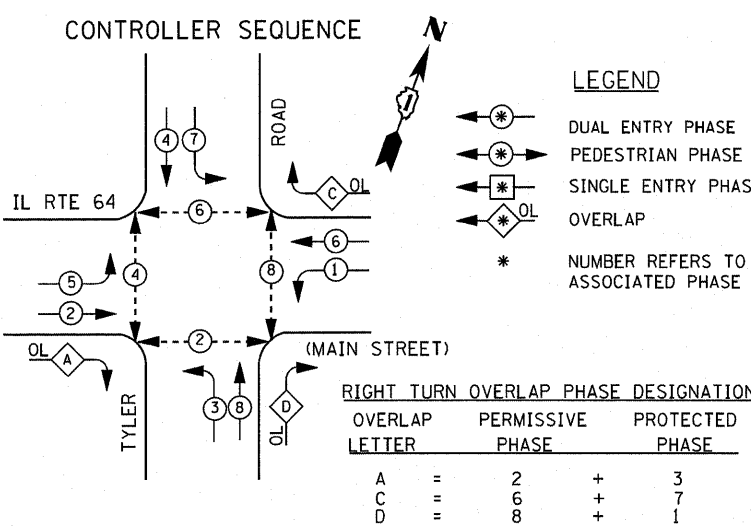
- CONSTRUCTION NOTES:**
- 1) RELOCATE EXISTING LIGHT DETECTORS AND CONFIRMATION BEACONS TO THE NEW MAST ARMS.
 - 2) RELOCATE EXISTING LIGHT DETECTOR AMPLIFIER TO NEW CONTROLLER CABINET.

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



FILE NAME =	USER NAME = #USER#	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 64 AND TYLER ROAD TRAFFIC SIGNAL MODERNIZATION PLAN	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN - DW	REVISED -			307	129 R-2	KANE	243	126	
	PLOT SCALE = #SCALE#	CHECKED - JS	REVISED -			CONTRACT NO. 62195					
	PLOT DATE = #DATE#	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE: 1"=20'-0"	SHEET NO.	OF SHEETS	STA.	TO STA.		

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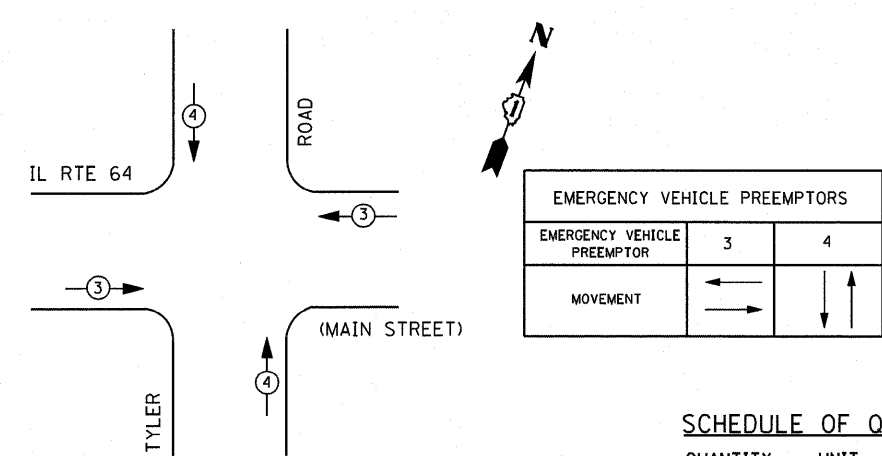
RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL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

AT LOCATIONS WHERE UPS IS INSTALLED AND EMERGENCY VEHICLE PRIORITY SYSTEM IS IN USE, ANY EXISTING INCANDESCENT CONFIRMATION BEACONS SHALL BE REPLACED WITH LED LAMPS IN ACCORDANCE WITH THE DISTRICT ONE EMERGENCY VEHICLE PRIORITY SYSTEM SPECIFICATION AT NO ADDITIONAL COST TO THE CONTRACT.

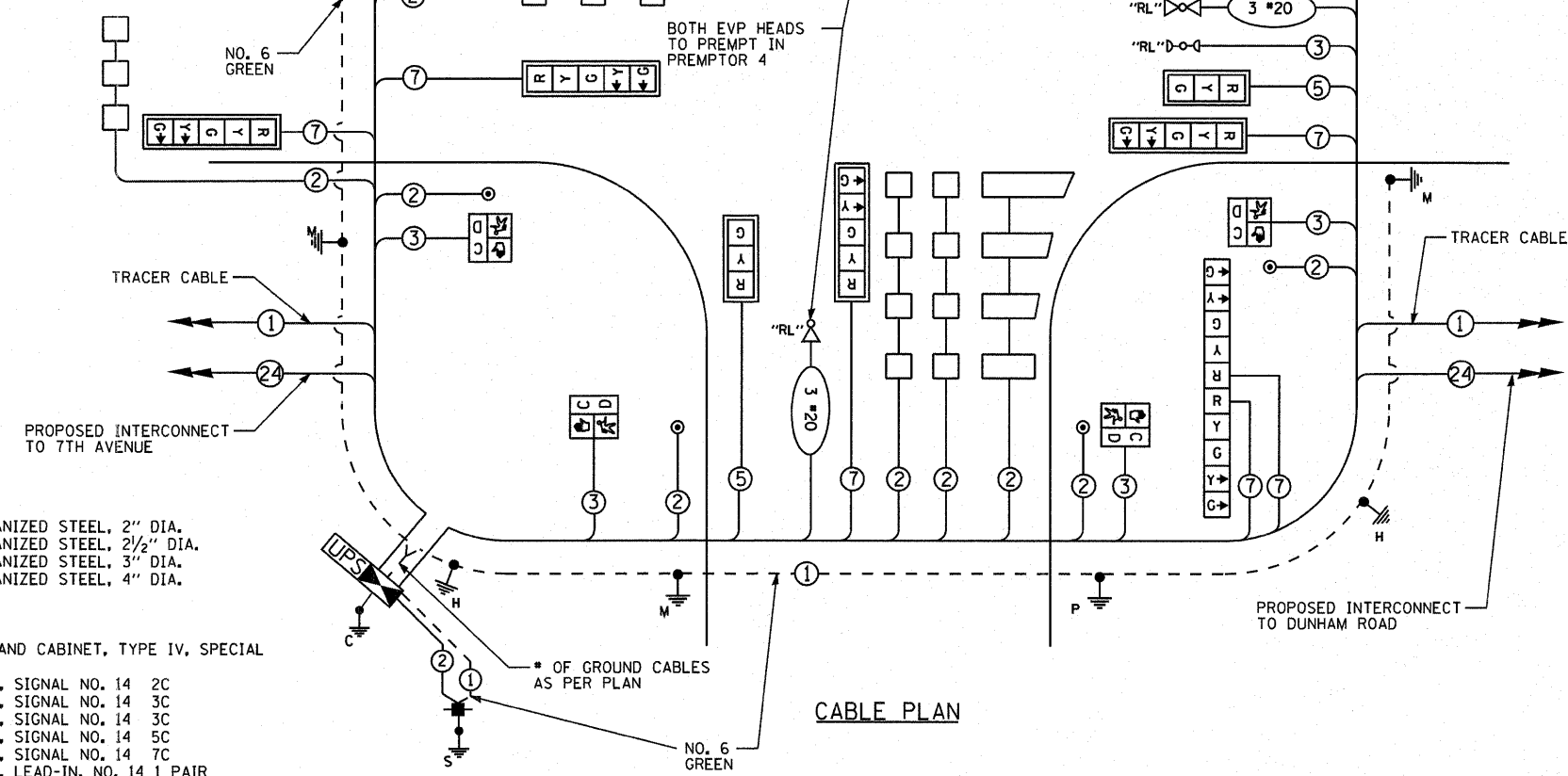
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE



IL ROUTE 64 (MAIN STREET)



SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
12	SO FT	SIGN PANEL - TYPE 1
27.5	SO FT	SIGN PANEL - TYPE 2
969	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
36	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.
64	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
564	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
4	EACH	HANDHOLE
4	EACH	HEAVY-DUTY HANDHOLE
2	EACH	DOUBLE HANDHOLE
* 1	EACH	FULL-ACTUATED CONTROLLER AND CABINET, TYPE IV, SPECIAL
1	EACH	TRANSCEIVER - FIBER OPTIC
1518	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
1581	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
* 729.5	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
832.5	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
3293	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
2049.5	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
218	FOOT	ELECTRIC CABLE IN CONDUIT, NO. 6 2C
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 58 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 64 FT.
12	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
39	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
42	FOOT	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER
3	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED
9	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, L.E.D., 2-FACE, 5 SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, L.E.D., 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
9	EACH	INDUCTIVE LOOP DETECTOR
1687	FOOT	DETECTOR LOOP, TYPE 1
6	EACH	PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER

QUANTITY	UNIT	ITEM
12	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
* 3	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
* 1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
8	EACH	REMOVE EXISTING HANDHOLE
11	EACH	REMOVE EXISTING CONCRETE FOUNDATION
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
1	EACH	SERVICE INSTALLATION - POLE MOUNTED
1	EACH	UNINTERRUPTIBLE POWER SUPPLY SPECIAL
580	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
* 729.5	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED

* - 100% COST TO THE CITY OF ST. CHARLES
 ** - 100% COST TO CMAQ

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE	% OPERATIONS	TOTAL WATTAGE	
SIGNAL (RED)	18	INCAND.	0.50	153	
		LED			17
					25
(YELLOW)	18	135	0.25	112.5	
(GREEN)	18	135	0.25	67.5	
ARROW	28	135	0.10	33.6	
PED. SIGNAL	8	90	1.00	200	
CONTROLLER	1	100	1.00	100	
ILLUM. SIGN		252	0.05	--	
VIDEO SYSTEM		150	1.00	--	
FLASHER LED					
TOTAL =				666.6	

ENERGY COSTS- BILLED TO: IDOT DISTRICT 1
 201 WEST CENTER COURT
 SCHAMBURG, IL 60196-1096

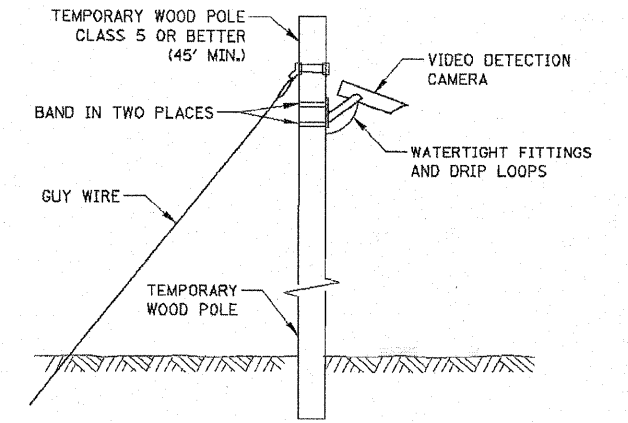
ENERGY SUPPLY - CONTACT TOM BRUHL
 PHONE 630-377-4401
 COMPANY CITY OF ST. CHARLES

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

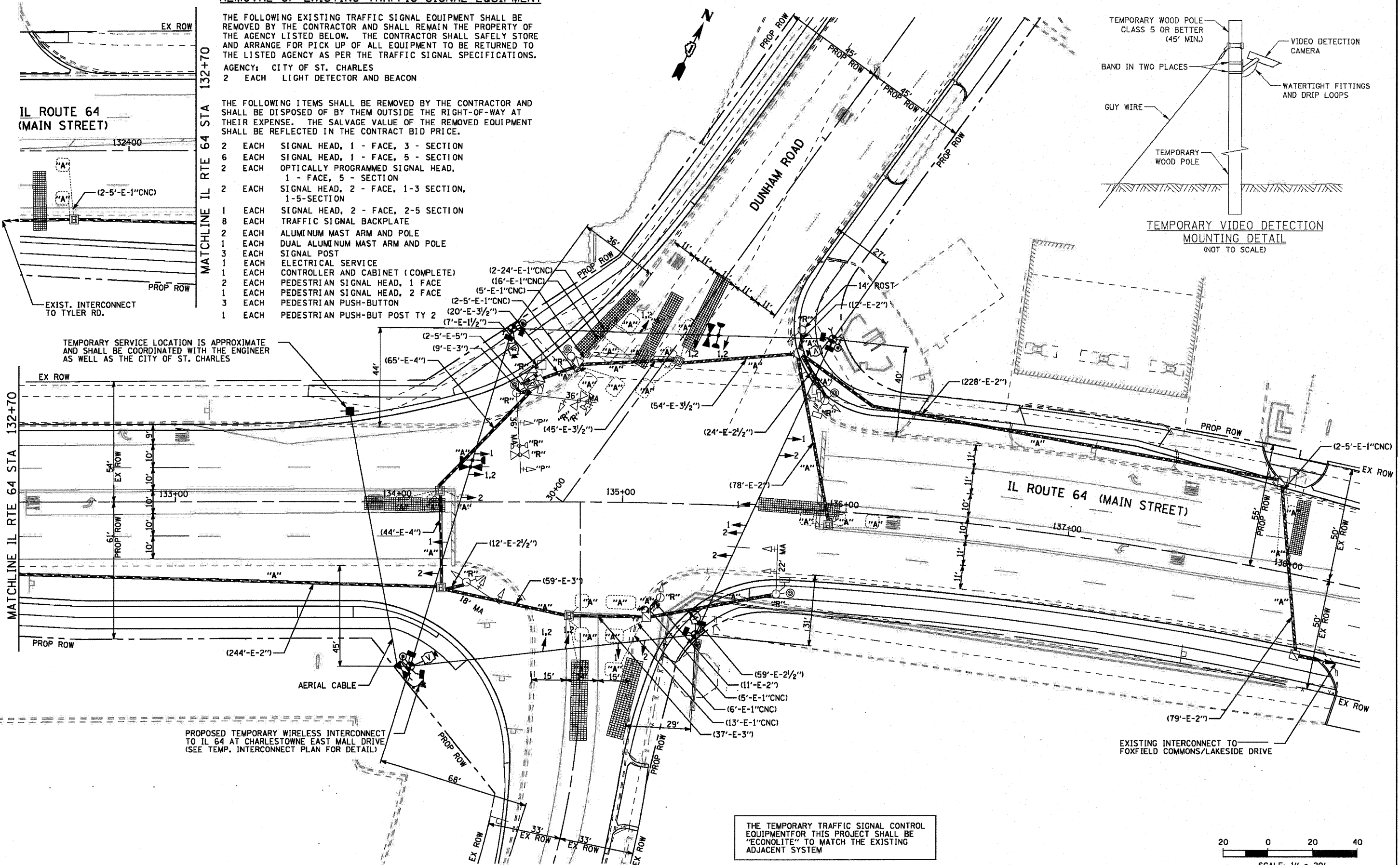
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.
 AGENCY: CITY OF ST. CHARLES
 2 EACH LIGHT DETECTOR AND BEACON

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

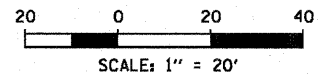
- 2 EACH SIGNAL HEAD, 1 - FACE, 3 - SECTION
- 6 EACH SIGNAL HEAD, 1 - FACE, 5 - SECTION
- 2 EACH OPTICALLY PROGRAMMED SIGNAL HEAD, 1 - FACE, 5 - SECTION
- 2 EACH SIGNAL HEAD, 2 - FACE, 1-3 SECTION, 1-5-SECTION
- 1 EACH SIGNAL HEAD, 2 - FACE, 2-5 SECTION
- 8 EACH TRAFFIC SIGNAL BACKPLATE
- 2 EACH ALUMINUM MAST ARM AND POLE
- 1 EACH DUAL ALUMINUM MAST ARM AND POLE
- 3 EACH SIGNAL POST
- 1 EACH ELECTRICAL SERVICE CONTROLLER AND CABINET (COMPLETE)
- 2 EACH PEDESTRIAN SIGNAL HEAD, 1 FACE
- 1 EACH PEDESTRIAN SIGNAL HEAD, 2 FACE
- 3 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH PEDESTRIAN PUSH-BUT POST TY 2



TEMPORARY VIDEO DETECTION MOUNTING DETAIL (NOT TO SCALE)



THE TEMPORARY TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM

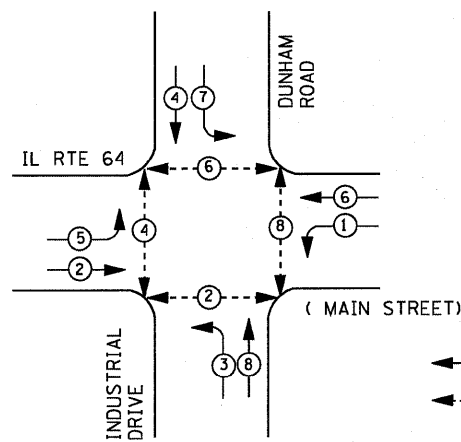


CIVIL ENGINEERING CONSULTANTS
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 8619 W. Bryn Mawr Ave., Suite 602
 Chicago, IL 60631-3551
 773-783-7600 Fax 773-783-7602
 www.RWAengineers.com

FILE NAME =	USER NAME = #USER#	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 64 AND DUNHAM ROAD TEMPORARY TRAFFIC SIGNAL PLAN	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN - DW	REVISED -			307	129 R-2	KANE	243	12.8	
PLOT SCALE = #SCALE#		CHECKED - JS	REVISED -			CONTRACT NO. 62195					
PLOT DATE = #DATE#		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE: 1"=20'-0"	SHEET NO.	OF	SHEETS	STA.	TO STA.	

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TEMPORARY CONTROLLER SEQUENCE

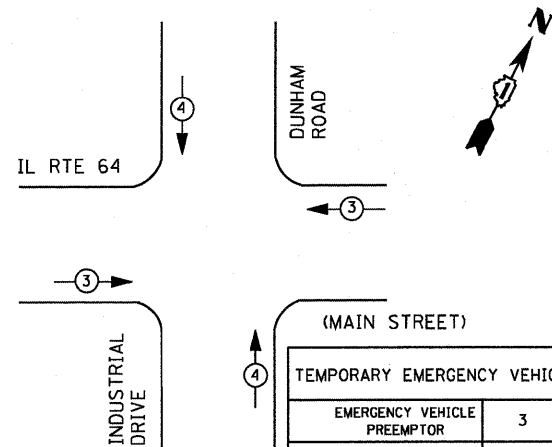


LEGEND

- ⊙ ⊙ DUAL ENTRY PHASE
- ⊙ ⊙ PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY PHASE DESIGNATION DIAGRAM

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE

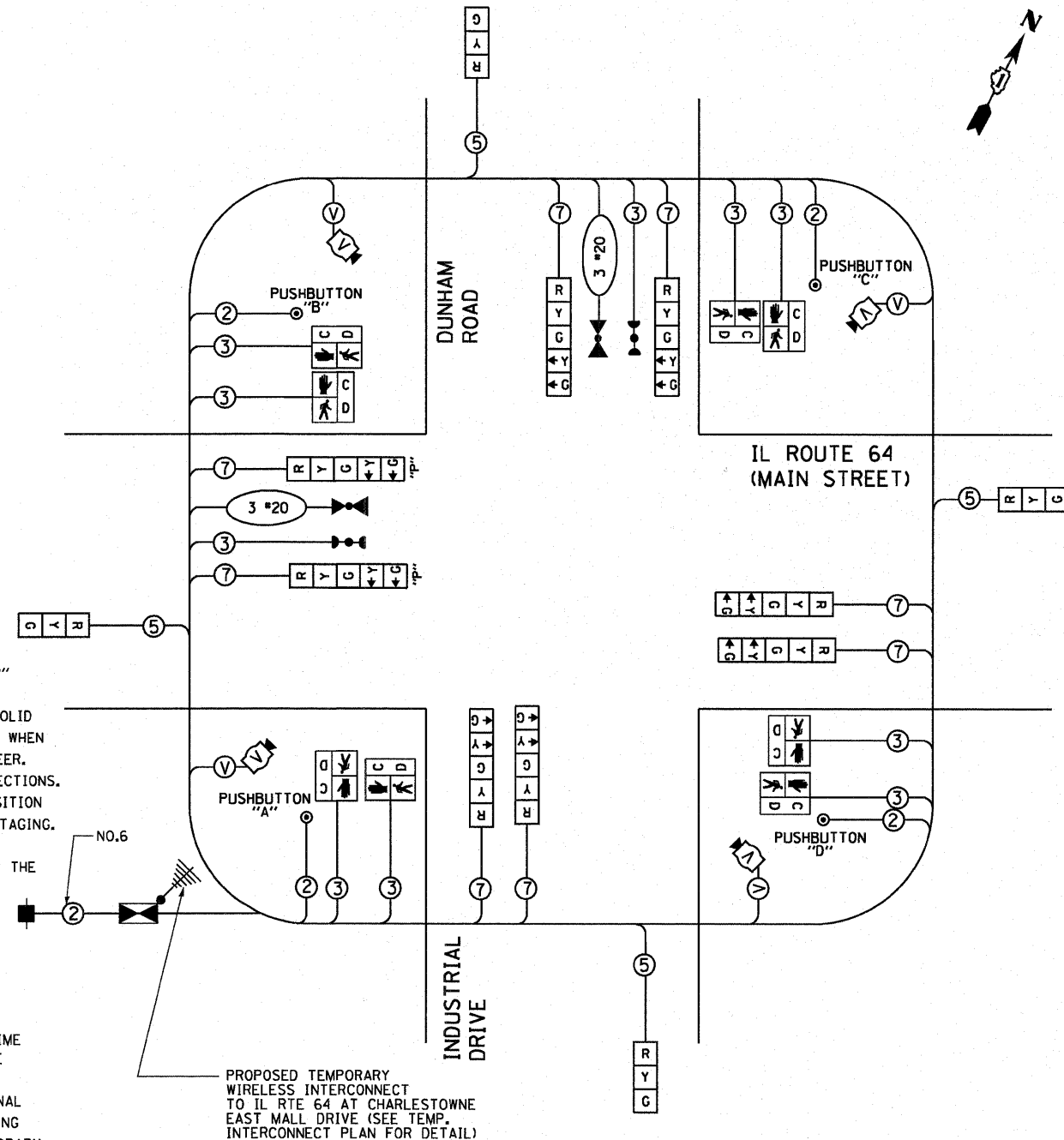


TEMPORARY EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

THE TEMPORARY TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM

NOTES FOR TEMPORARY TRAFFIC SIGNALS

- 1) ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
- 2) ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- 3) ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT RAILROAD INTERSECTIONS. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
- 4) ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES. RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
- 5) ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
- 6) THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
- 7) UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEM SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
- 8) TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
- 9) DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
- 10) WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.



TEMPORARY CABLE PLAN FOR STAGE 1 & 2

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

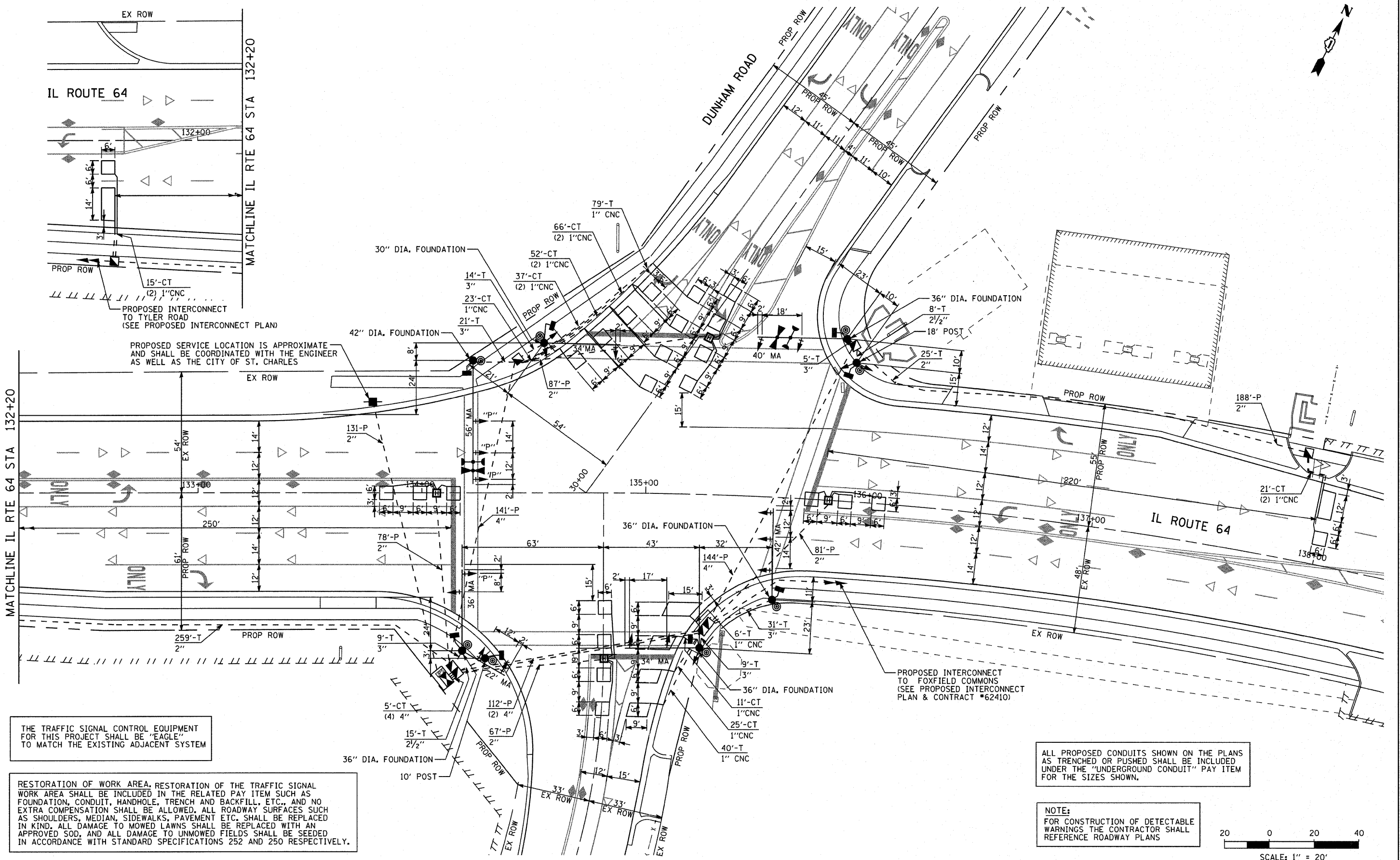
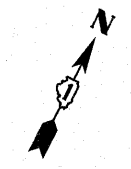
RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL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

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE		% OPERATIONS	TOTAL
		INCAND.	LED		
SIGNAL (RED)	12	135	17	0.50	102.00
(YELLOW)	12	135	25	0.25	75.00
(GREEN)	12	135	15	0.25	45.00
ARROW	16	135	12	0.10	19.20
PED. SIGNAL	8	90	25	1.00	200.00
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN		84		0.05	--
VIDEO SYSTEM	1	150	150	0.50	150.00
FLASHER LED					
TOTAL =					691.20

ENERGY COSTS- BILLED TO: IDOT DISTRICT 1
 201 WEST CENTER COURT
 SCHAMBURG, IL 60196-1096

ENERGY SUPPLY - CONTACT TOM BRUHL
 PHONE 630-377-4401
 COMPANY CITY OF ST. CHARLES

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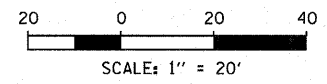
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM

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

PROPOSED INTERCONNECT TO FOXFIELD COMMONS (SEE PROPOSED INTERCONNECT PLAN & CONTRACT #62410)

ALL PROPOSED CONDUITS SHOWN ON THE PLANS AS TRENCHED OR PUSHED SHALL BE INCLUDED UNDER THE "UNDERGROUND CONDUIT" PAY ITEM FOR THE SIZES SHOWN.

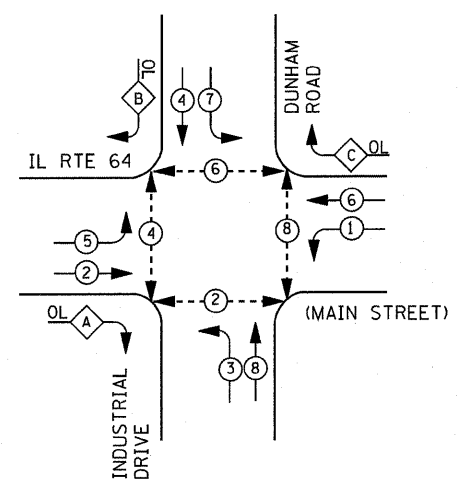
NOTE:
 FOR CONSTRUCTION OF DETECTABLE WARNINGS THE CONTRACTOR SHALL REFERENCE ROADWAY PLANS



FILE NAME =	USER NAME = #USER#	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 64 AND DUNHAM ROAD TRAFFIC SIGNAL MODERNIZATION PLAN			F.A. RTE. 307	SECTION 129 R-2	COUNTY KANE	TOTAL SHEET NO. 243	130
#FILE#		DRAWN - DW	REVISED -		SCALE: 1"=20'-0"	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 62195		
		CHECKED - JS	REVISED -							ILLINOIS FED. AID PROJECT		
		DATE -	REVISED -									

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 www.RWAengineers.com

CONTROLLER SEQUENCE



LEGEND

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

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

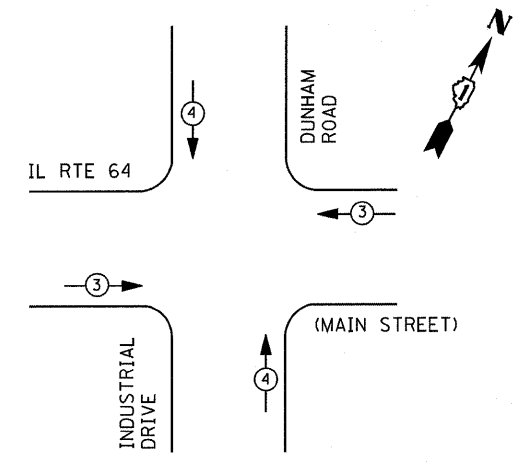
THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

RIGHT TURN OVERLAP PHASE DESIGNATION

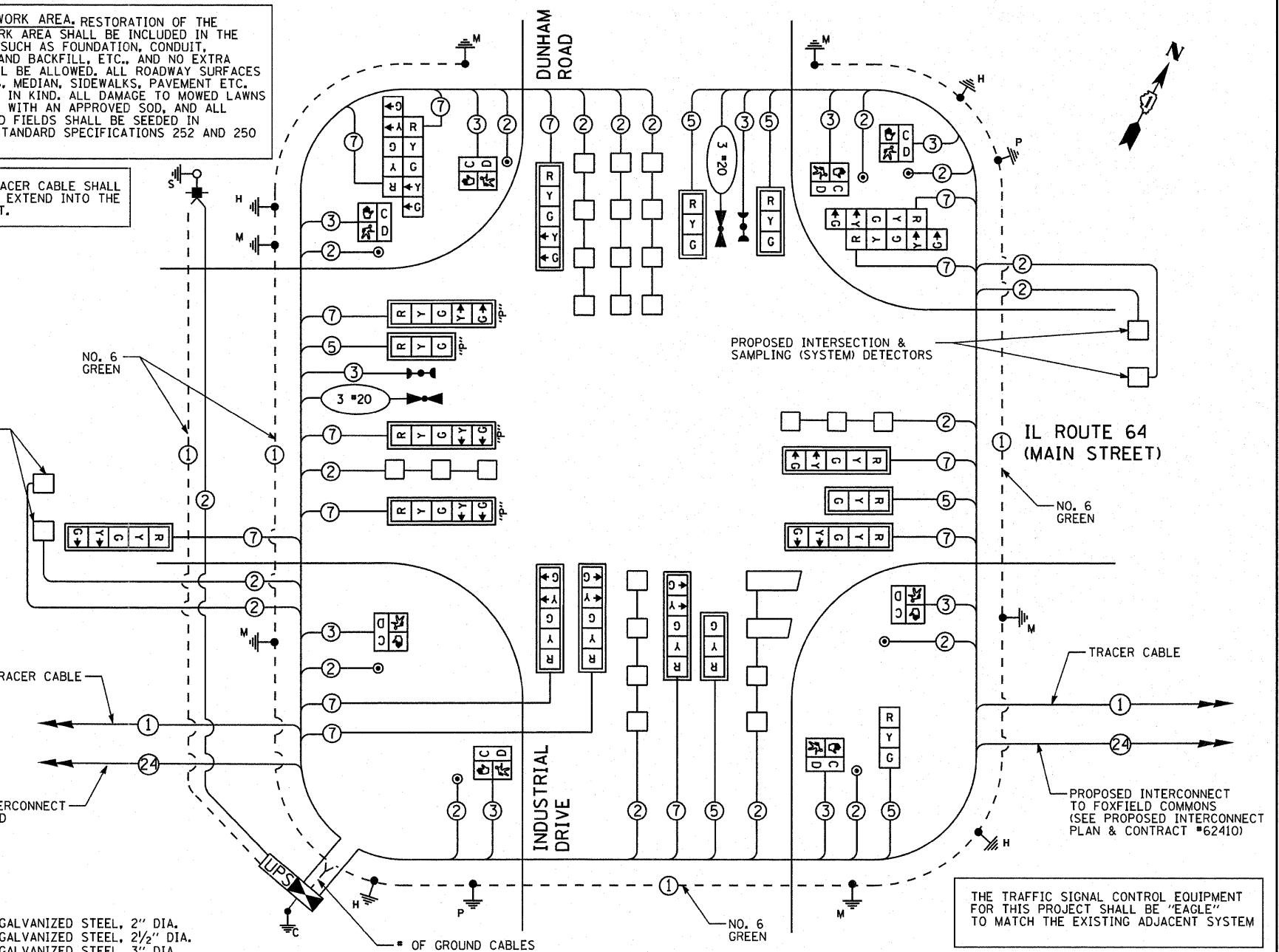
OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	2	3
B	4	5
C	6	7

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑



CABLE PLAN

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
34.5	SO FT	SIGN PANEL - TYPE 1
27.5	SO FT	SIGN PANEL - TYPE 2
910	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
23	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.
89	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
532	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
4	EACH	HANDHOLE
4	EACH	HEAVY-DUTY HANDHOLE
2	EACH	DOUBLE HANDHOLE
* 1	EACH	FULL-ACTUATED CONTROLLER AND CABINET, TYPE IV, SPECIAL
1	EACH	TRANSCEIVER - FIBER OPTIC
1460	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
1516	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
* 617	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1562.5	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
2767.5	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
2800	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
152	FOOT	ELECTRIC CABLE IN CONDUIT, NO. 6 2C
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 56 FT.
1	EACH	STEEL MAST ARM ASSEMBLY & POLE WITH DUAL MAST ARMS, 36 FT. & 22 FT.
8	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
13.5	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
36	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
21	FOOT	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER
1	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED
7	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, L.E.D., 2-FACE, 5 SECTION, BRACKET MOUNTED

QUANTITY	UNIT	ITEM
11	EACH	INDUCTIVE LOOP DETECTOR
1717	FOOT	DETECTOR LOOP, TYPE 1
8	EACH	PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
15	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
8	EACH	PEDESTRIAN PUSH-BUTTON
* 2	EACH	LIGHT DETECTOR
* 1	EACH	LIGHT DETECTOR AMPLIFIER
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	REMOVE EXISTING HANDHOLE
11	EACH	REMOVE EXISTING CONCRETE FOUNDATION
8	EACH	REMOVE EXISTING CONCRETE FOUNDATION
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
1	EACH	SERVICE INSTALLATION - POLE MOUNTED
1	EACH	UNINTERRUPTIBLE POWER SUPPLY SPECIAL
585	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
3	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
* 617	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED

* - 100% COST TO THE CITY OF ST. CHARLES
 ** - 100% COST TO CMAQ

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO. LAMPS	WATTAGE		TOTAL WATTAGE
		INCAND.	LED	
SIGNAL (RED)	20	135	17	170
(YELLOW)	20	135	25	125
(GREEN)	20	135	15	75
ARROW	28	135	12	36
PED. SIGNAL	8	90	25	200
CONTROLLER	1	100	100	100
ILLUM. SIGN		252	25	--
VIDEO SYSTEM		150	-	--
TOTAL =				706.0

ENERGY COSTS- BILLED TO: IDOT DISTRICT 1
 201 WEST CENTER COURT
 SCHAMBURG, IL 60196-1096

ENERGY SUPPLY - CONTACT TOM BRUHL
 PHONE 630-377-4401
 COMPANY CITY OF ST. CHARLES

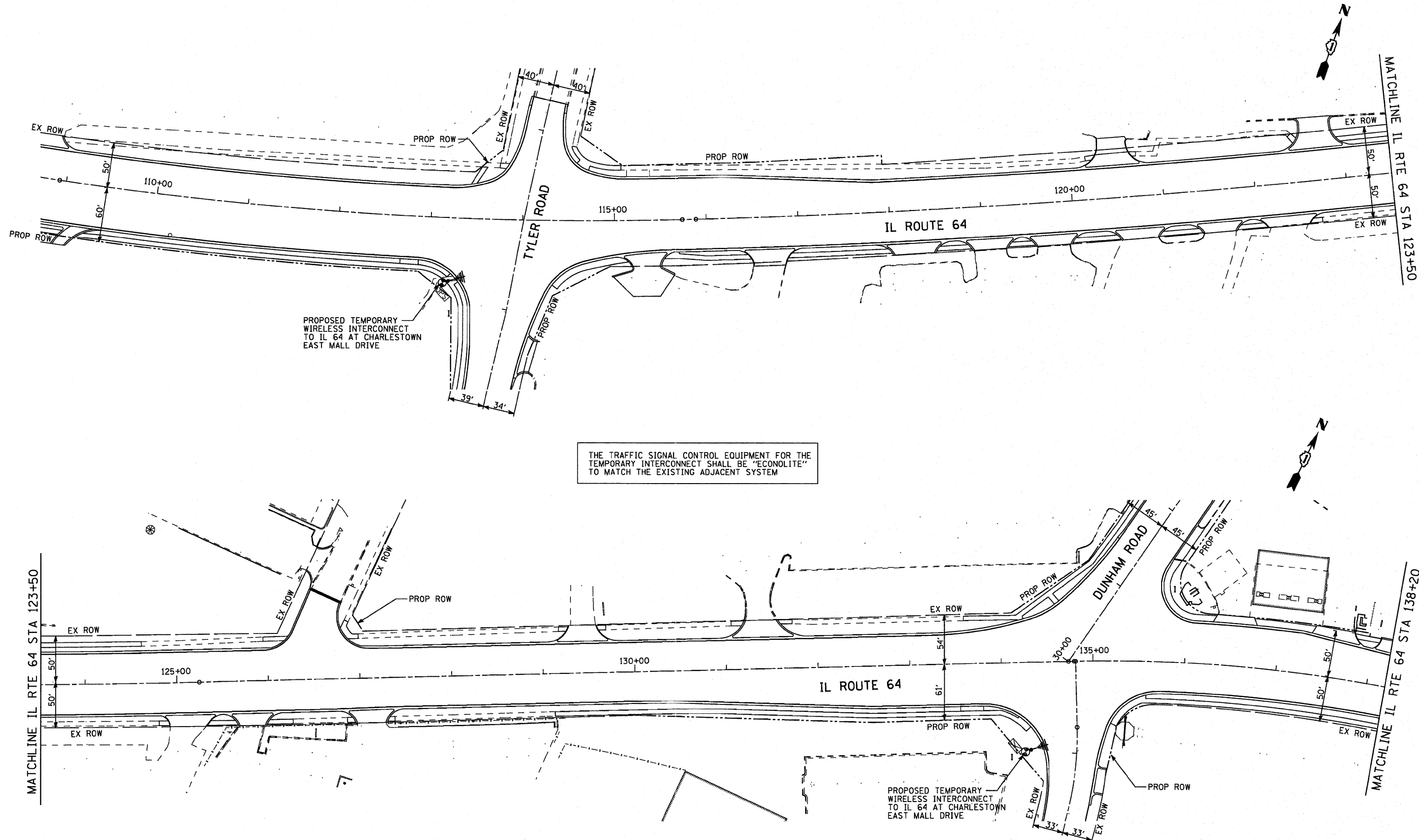
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		DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

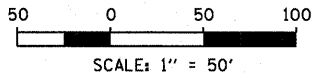
IL ROUTE 64 (MAIN STREET) AND DUNHAM ROAD /INDUSTRIAL DRIVE
 CABLE PLAN, SCHEDULE OF QUANTITIES & PHASE DESIGNATION DIAGRAM

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129 R-2	KANE	243	131
				CONTRACT NO. 62195
ILLINOIS FED. AID PROJECT				

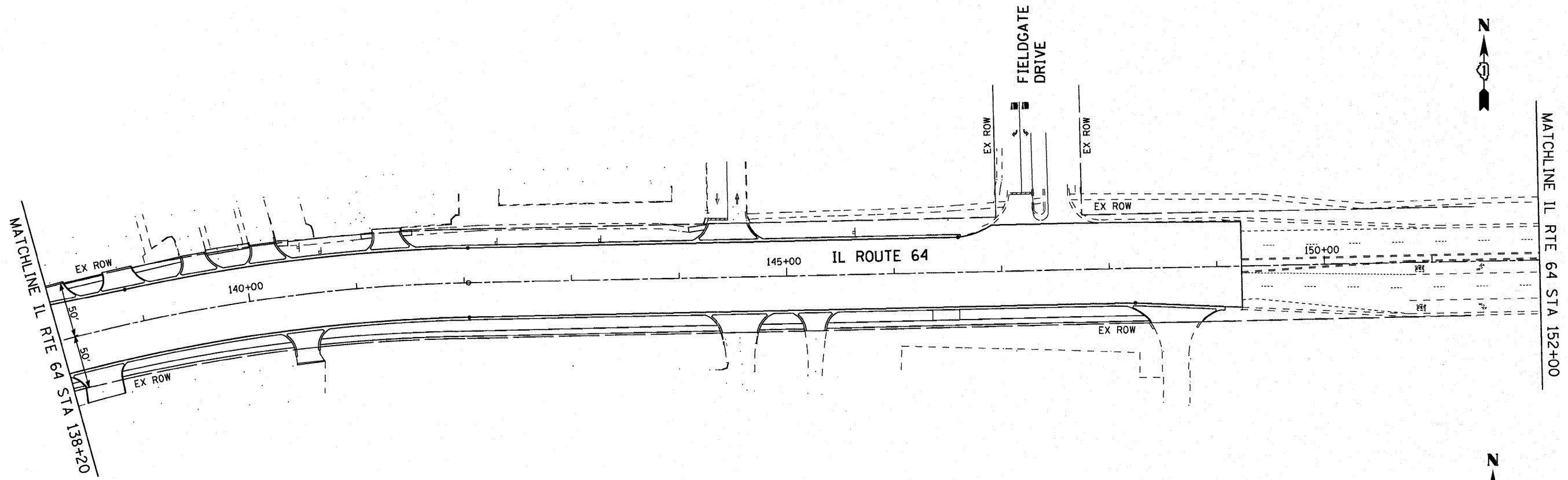


THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THE TEMPORARY INTERCONNECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM

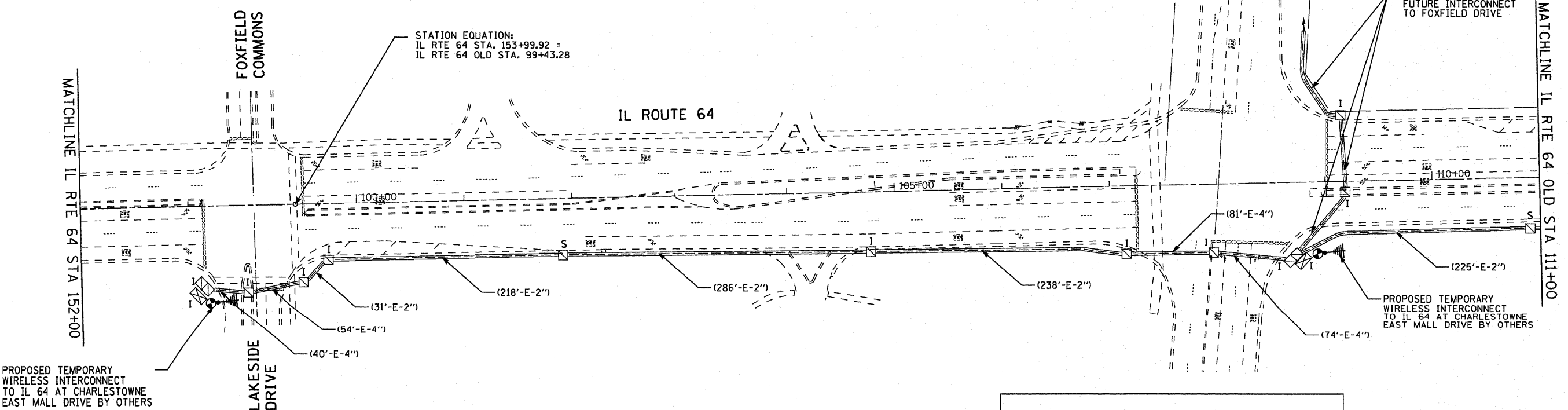


SHEET 1 OF 3

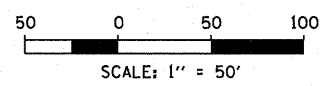
FILE NAME =	USER NAME = #USER#	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY WIRELESS INTERCONNECT PLAN IL ROUTE 64 WEST OF TYLER ROAD TO EAST OF DUNHAM ROAD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEET NO.	
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					SCALE: 1"=50'-0"	SHEET NO.	OF	SHEETS	STA.	TO STA.



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THE TEMPORARY INTERCONNECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM

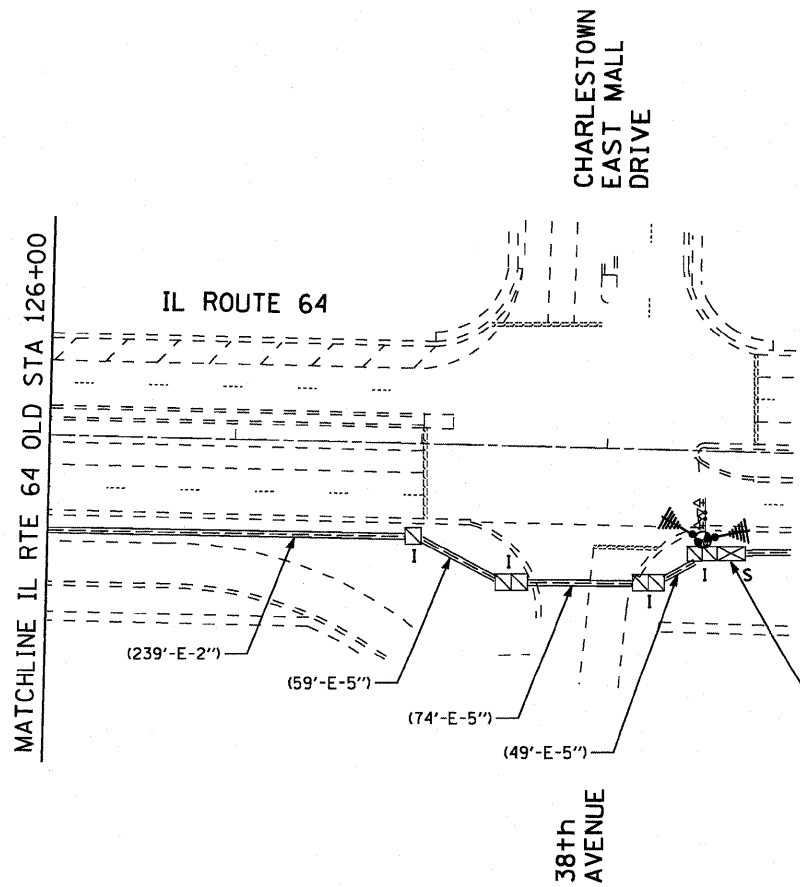
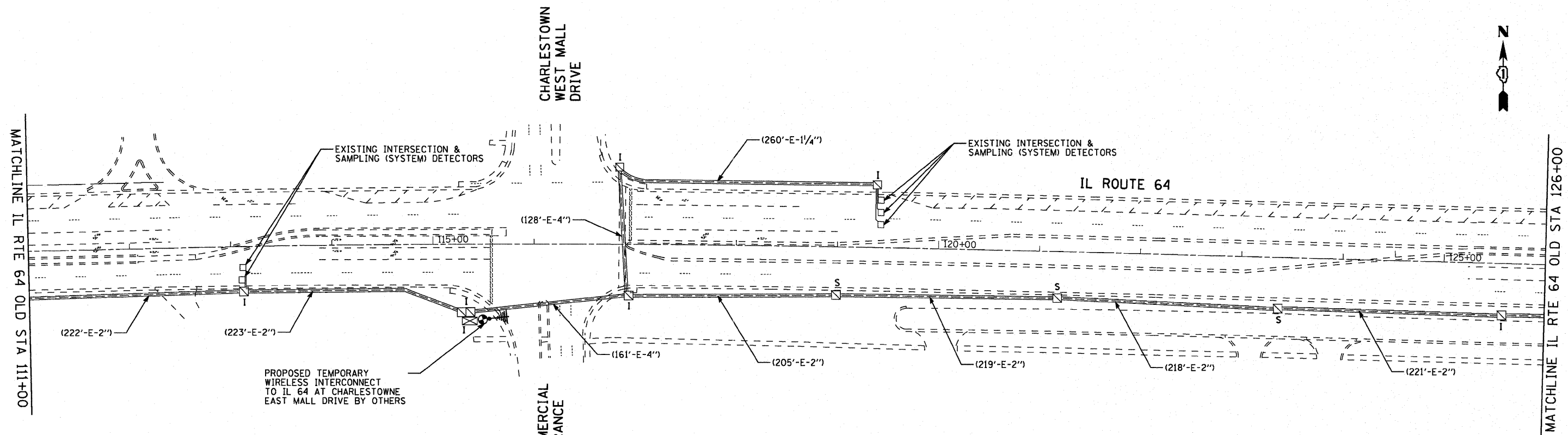


FOR INFORMATION ONLY



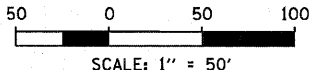
SHEET 2 OF 3

FILE NAME =	USER NAME = #USER#	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY WIRELESS INTERCONNECT PLAN IL ROUTE 64 EAST OF DUNHAM ROAD TO WEST OF KIRK ROAD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN - DW	REVISED -			307	129 R-2	KANE	243	133	
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					SCALE: 1"=50'-0"	SHEET NO.	OF	SHEETS	STA.	TO STA.	



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THE TEMPORARY INTERCONNECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM

EXISTING MASTER CONTROLLER SHALL REMAIN IN OPERATION UNTIL PROPOSED FIBER INTERCONNECT AND PROPOSED MASTER CONTROLLER AT IL 64 & 7TH AVENUE HAVE BEEN INSTALLED, TESTED AND THE ENGINEER HAS APPROVED THE TURN-ON.



SHEET 3 OF 3

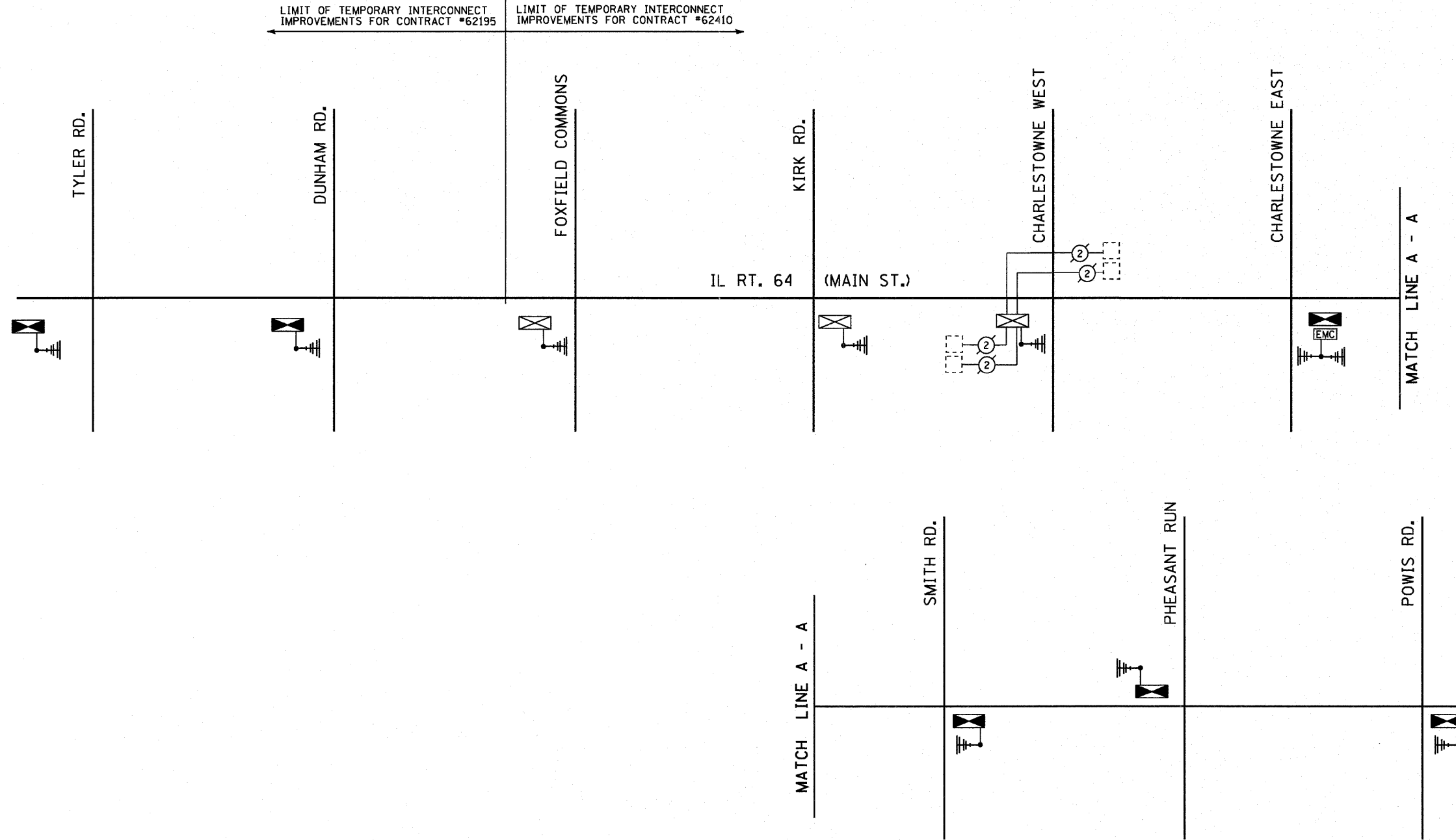
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	PLOT DATE = #DATE#	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY WIRELESS INTERCONNECT PLAN IL ROUTE 64
 EAST OF KIRK ROAD TO EAST OF EAST MALL DRIVE**

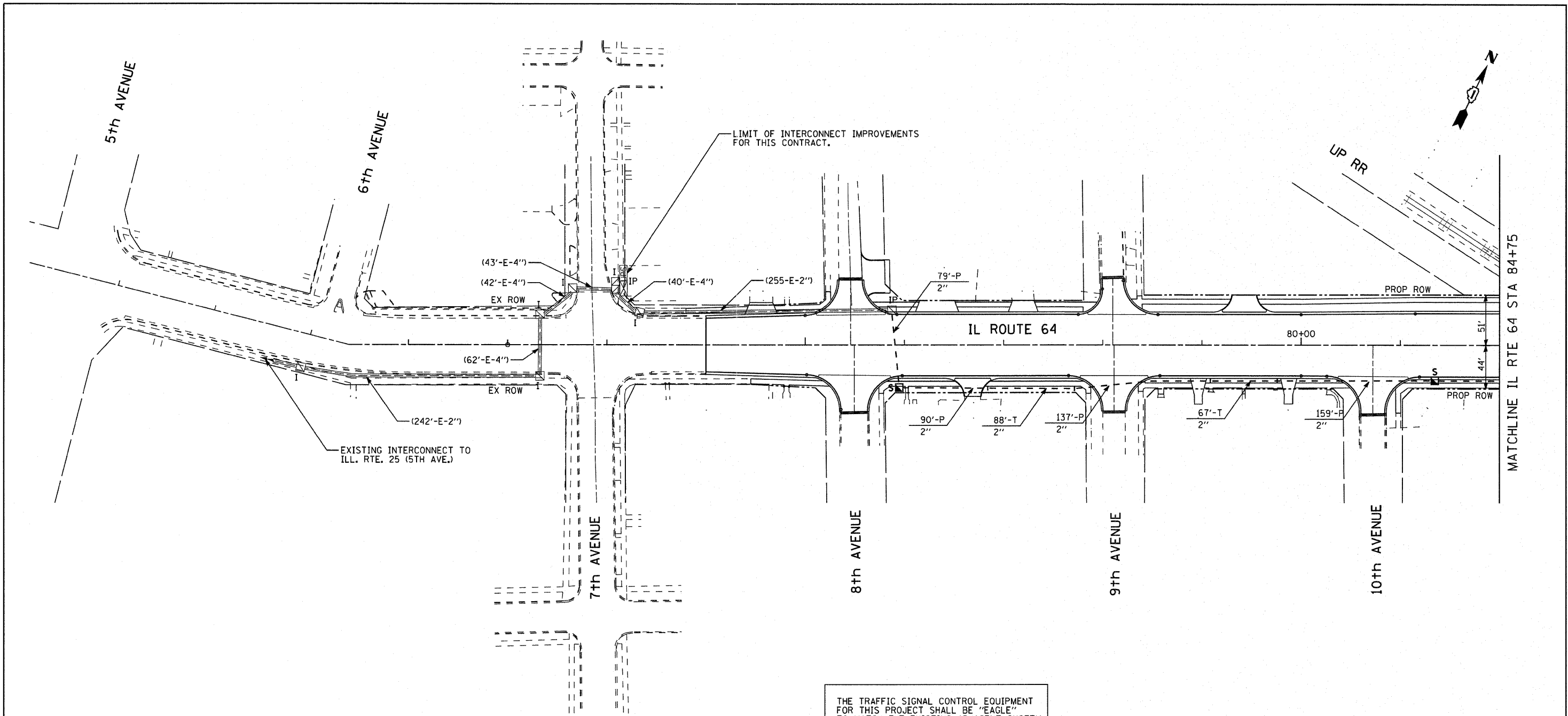
SCALE: 1"=50'-0"	SHEET NO.	OF	SHEETS	STA.	TO	STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129 R-2	KANE	243	134
CONTRACT NO. 62195				
ILLINOIS FED. AID PROJECT				



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THE TEMPORARY INTERCONNECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM

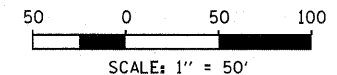
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	PLOT DATE = #DATE#	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM

THERE WILL BE NO FIBER OPTIC OR TRACER CABLE INSTALLED AS PART OF CONTRACT #62195

ALL PROPOSED CONDUITS SHOWN ON THE PLANS AS TRENCHED OR PUSHED SHALL BE INCLUDED UNDER THE "UNDERGROUND CONDUIT" PAY ITEM FOR THE SIZES SHOWN.

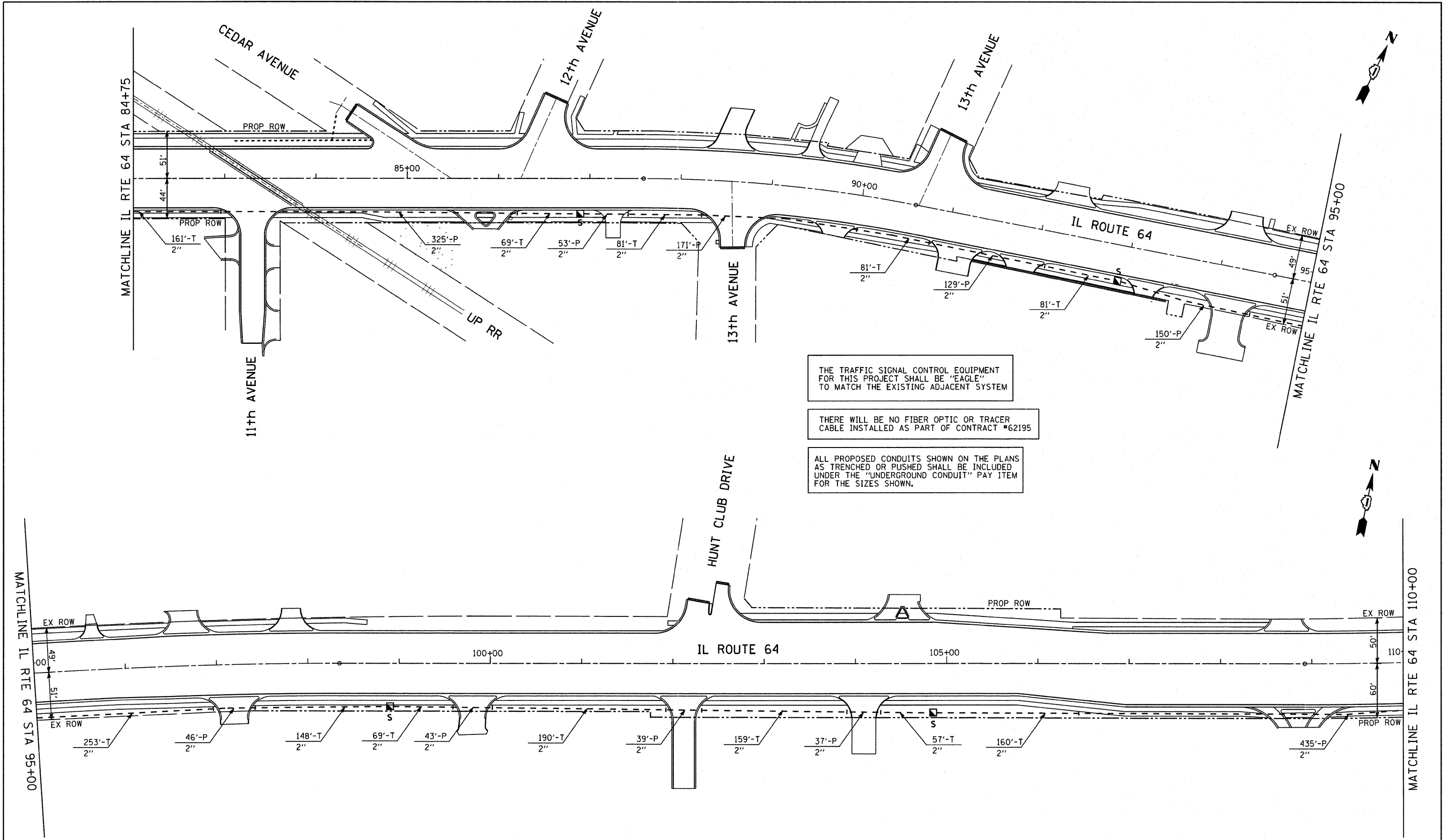


SHEET 1 OF 5

FILE NAME =	USER NAME = #USER#	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERCONNECT PLAN IL ROUTE 64 5th AVENUE TO EAST OF 11th AVENUE			F.A. RTE. 307	SECTION 129 R-2	COUNTY KANE	TOTAL SHEETS 243	SHEET NO. 136
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		CHECKED - JS	REVISED -								ILLINOIS FED. AID PROJECT	
		DATE -	REVISED -									

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 Regina Webster & Associates, Inc.

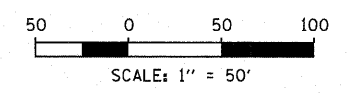
8619 W. Bryn Mawr Ave., Suite 602
 Chicago, IL 60631-3551
 773-283-2600 Fax 773-283-2602
 www.RWAengineers.com



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM

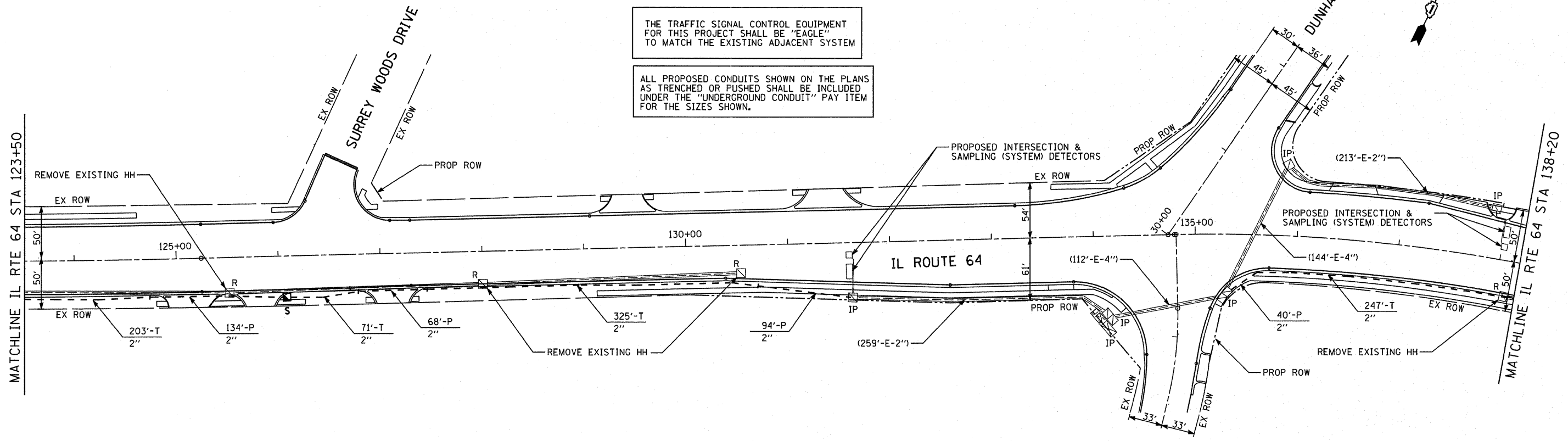
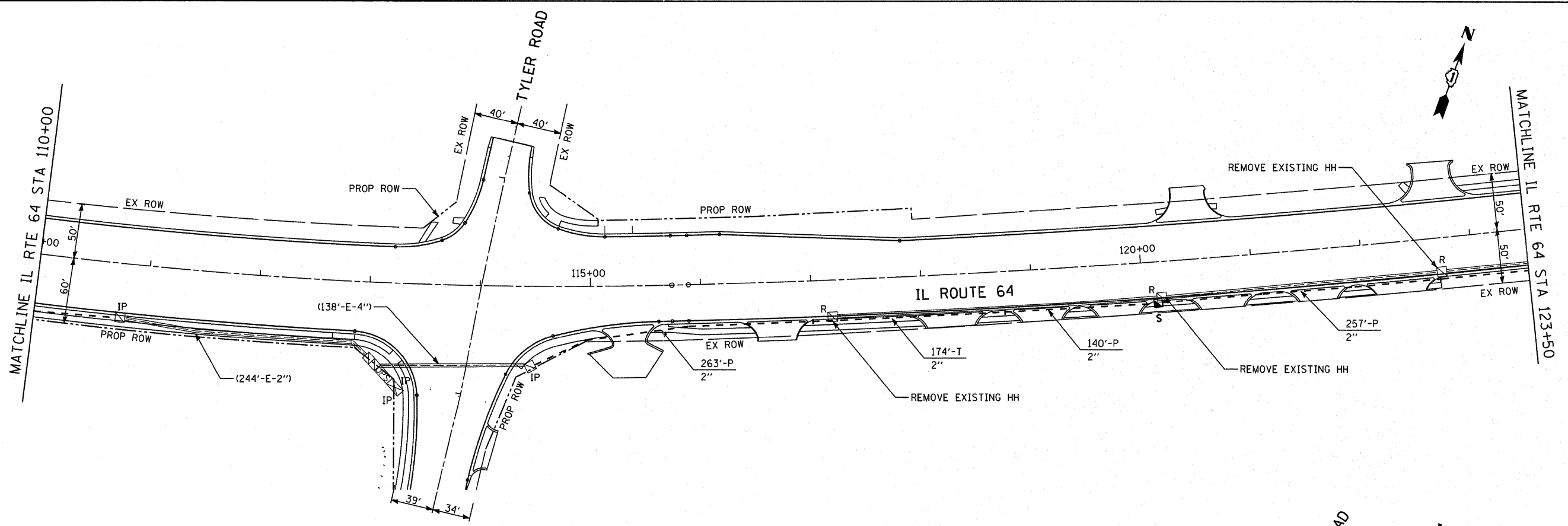
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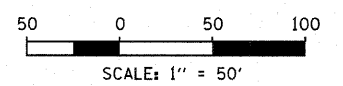
SHEET 2 OF 5

FILE NAME =	USER NAME = #USER#	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERCONNECT PLAN IL ROUTE 64 EAST OF 11th AVENUE TO WEST OF TYLER ROAD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM

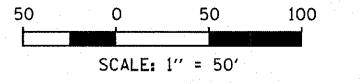
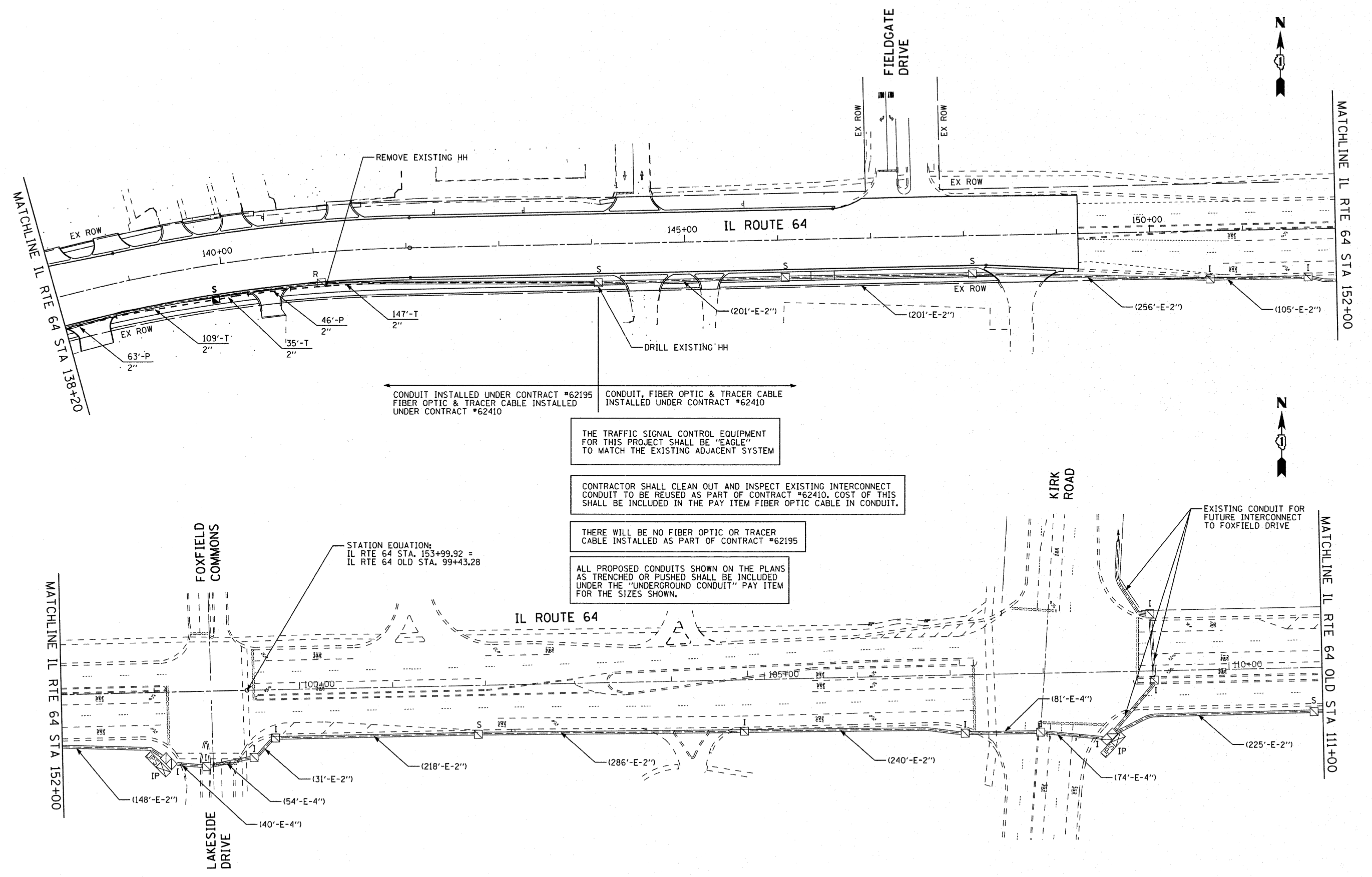
ALL PROPOSED CONDUITS SHOWN ON THE PLANS AS TRENCHED OR PUSHED SHALL BE INCLUDED UNDER THE "UNDERGROUND CONDUIT" PAY ITEM FOR THE SIZES SHOWN.



SHEET 3 OF 5

FILE NAME =	USER NAME = #USER#	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERCONNECT PLAN IL ROUTE 64 WEST OF TYLER ROAD TO EAST OF DUNHAM ROAD			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
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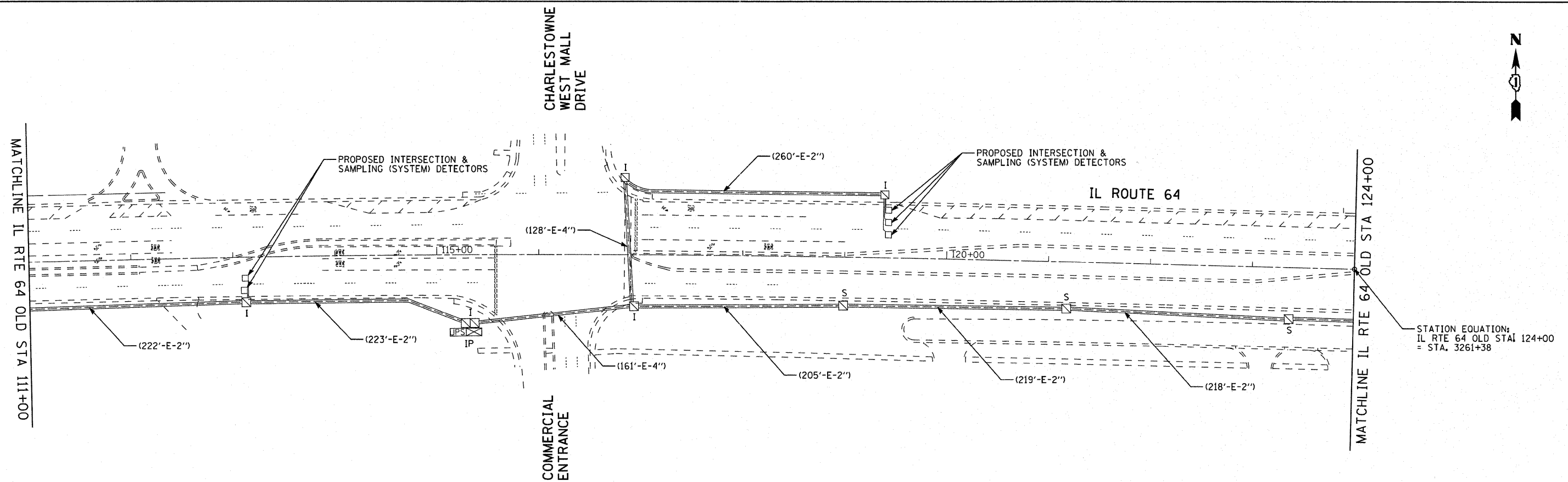
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SHEET 4 OF 5

FILE NAME =	USER NAME = #USER#	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERCONNECT PLAN IL ROUTE 64 EAST OF DUNHAM ROAD TO WEST OF KIRK ROAD			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = #DATE#		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

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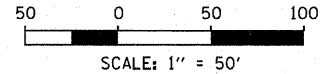


STATION EQUATION:
 IL RTE 64 OLD STA 124+00
 = STA. 3261+38

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM

ALL PROPOSED CONDUITS SHOWN ON THE PLANS AS TRENCHED OR PUSHED SHALL BE INCLUDED UNDER THE "UNDERGROUND CONDUIT" PAY ITEM FOR THE SIZES SHOWN.

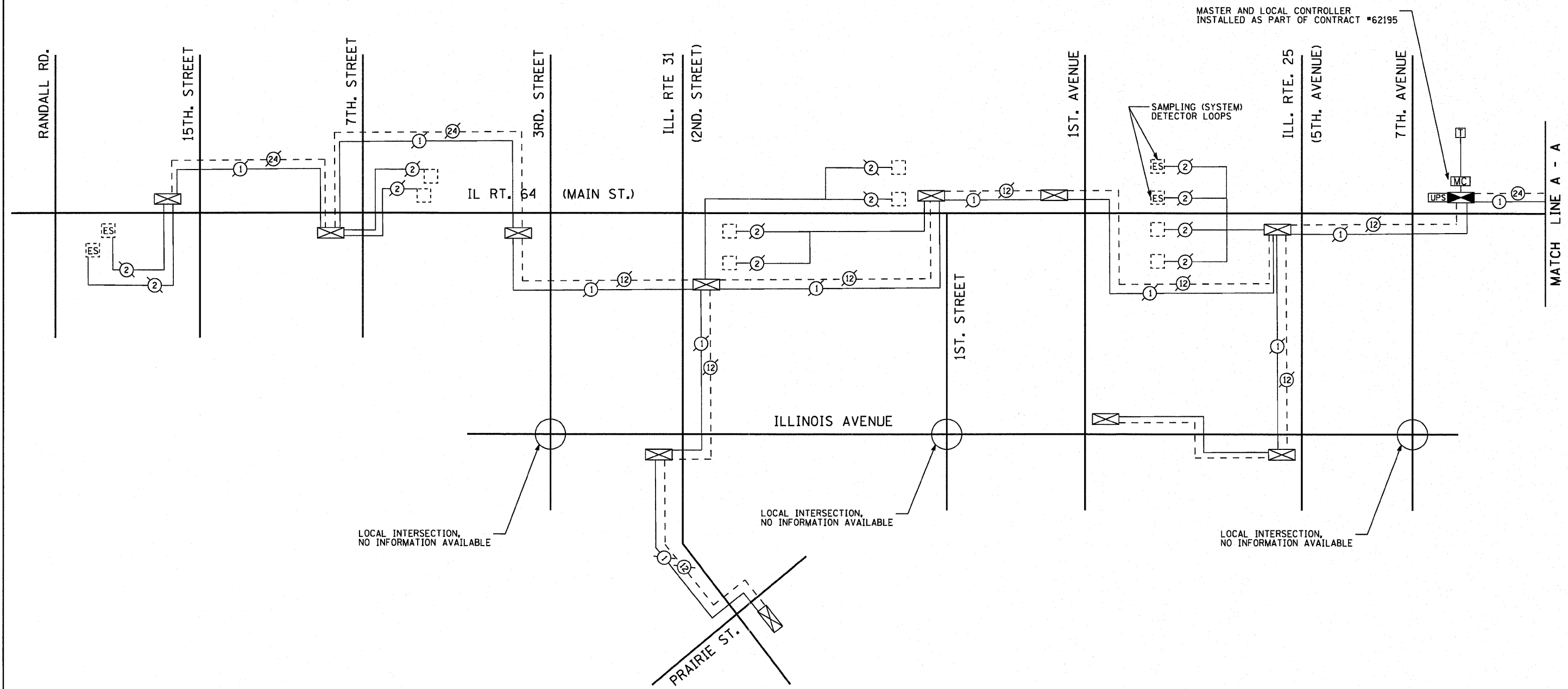
FOR INFORMATION ONLY



SHEET 5 OF 5

FILE NAME =	USER NAME = #USER#	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERCONNECT PLAN IL ROUTE 64 EAST OF KIRK ROAD TO EAST OF EAST MALL DRIVE			F.A. RTE. 307	SECTION 129 R-2	COUNTY KANE	TOTAL SHEETS 243	SHEET NO. 140
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		CHECKED - JS	REVISED -									
		DATE -	REVISED -									

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MASTER AND LOCAL CONTROLLER
 INSTALLED AS PART OF CONTRACT #62195

SAMPLING (SYSTEM)
 DETECTOR LOOPS

MATCH LINE A - A

LOCAL INTERSECTION,
 NO INFORMATION AVAILABLE

LOCAL INTERSECTION,
 NO INFORMATION AVAILABLE

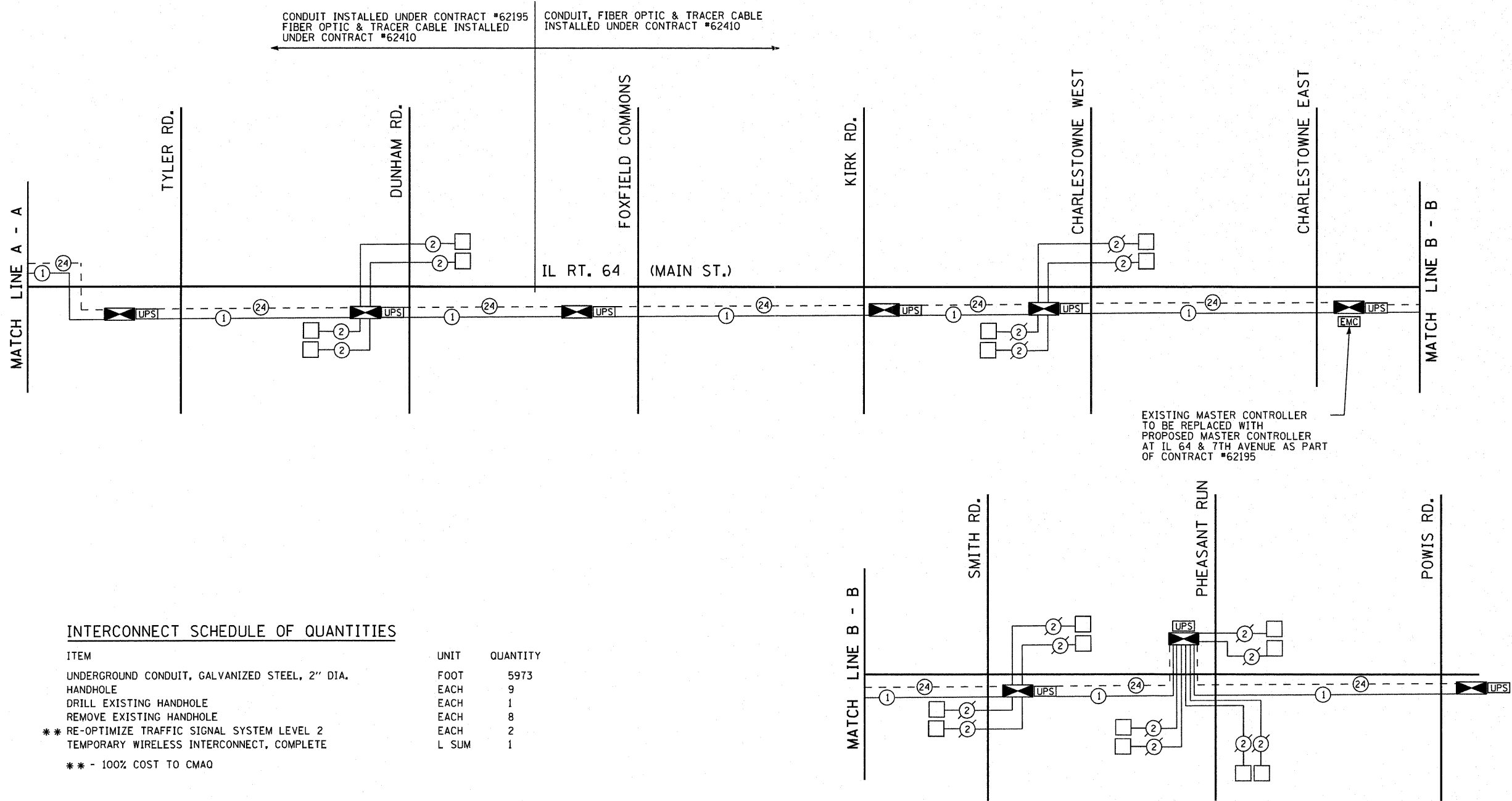
LOCAL INTERSECTION,
 NO INFORMATION AVAILABLE

THERE WILL BE NO FIBER OPTIC OR TRACER
 CABLE INSTALLED AS PART OF CONTRACT #62195

THE TRAFFIC SIGNAL CONTROL EQUIPMENT
 FOR THIS PROJECT SHALL BE "EAGLE"
 TO MATCH THE EXISTING ADJACENT SYSTEM

SHEET 1 OF 2

FILE NAME =	USER NAME = #USER#	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERCONNECT SCHEMATIC PLAN AND SCHEDULE OF QUANTITIES			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
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		CHECKED - JS	REVISED -												
		DATE -	REVISED -												
												CONTRACT NO. 62195			
												ILLINOIS FED. AID PROJECT			



INTERCONNECT SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	5973
HANDHOLE	EACH	9
DRILL EXISTING HANDHOLE	EACH	1
REMOVE EXISTING HANDHOLE	EACH	8
** RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	2
TEMPORARY WIRELESS INTERCONNECT, COMPLETE	L SUM	1

** - 100% COST TO CMAQ

THERE WILL BE NO FIBER OPTIC OR TRACER CABLE INSTALLED AS PART OF CONTRACT #62195

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM

SHEET 2 OF 2

FILE NAME =	USER NAME = #USER#	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERCONNECT SCHEMATIC PLAN AND SCHEDULE OF QUANTITIES			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		DATE -	REVISED -	[ILLINOIS] FED. AID PROJECT								

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ROADWAY LIGHTING SHEET INDEX

SHEET NO.	TITLE
LT-01	GENERAL NOTES, LEGEND, SHEET INDEX
LT-02	ROADWAY LIGHTING BILL OF MATERIALS
LT-03	PROPOSED LIGHTING PLAN STA. 71+00 TO STA. 94+00
LT-04	PROPOSED LIGHTING PLAN STA. 124+00 TO STA. 124+00
LT-05	PROPOSED LIGHTING PLAN STA. 124+00 TO STA. 153+00
LT-06	EXISTING AND TEMPORARY LIGHTING PLAN STA. 71+00 TO STA. 94+00
LT-07	EXISTING AND TEMPORARY LIGHTING PLAN STA. 94+00 TO STA. 124+00
LT-08	EXISTING AND TEMPORARY LIGHTING PLAN STA. 124+00 TO STA. 153+00
LT-09	WIRING DIAGRAM
LT-10	LIGHTING CONTROLLER
LT-11	MISC. DETAILS, SHEET A - CABLE SPLICE, POLE WIRING, TRENCH DETAIL

DETAILS

SHEET NO.	IDOT DIST 1 DETAIL NO.	TITLE
LT-12	BE-301	LIGHT POLE FOUNDATION, 40' TO 47 1/2' M.H. 15" BOLT CIRCLE
LT-13	BE-310	LIGHT POLE FOUNDATION OFFSET, 40' TO 47 1/2' M.H. 15" BOLT CIRCLE
LT-14	BE-400	LIGHT POLE, ALUMINUM, TRUSS TYPE, 47.5 FT. M.H.
LT-15	BE-800	TEMPORARY LIGHT POLE DETAILS
LT-16	BE-801	TEMPORARY AERIAL CABLE INSTALLATION.

GENERAL NOTES - ROADWAY LIGHTING

- SPlicing OF CONDUCTORS SHALL BE IN POLE BASES OR WEATHER TIGHT JUNCTION BOXES ONLY. SPLICES BELOW GRADE WILL NOT BE PERMITTED.
- LIGHTING CIRCUIT SHALL BE WIRED IN ACCORDANCE WITH THE PLANS. DEVIATIONS WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO RESTORE ANY SPECIALIZED LANDSCAPING (DECORATIVE ROCKS, PLANTS, ETC.).
- ALL WORK SHALL CONFORM TO THE LATEST IDOT AND IDOT DISTRICT 1 STANDARDS, SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, SPECIAL PROVISIONS, REQUIREMENTS OF THE CITY OF ST. CHARLES, NATIONAL ELECTRICAL CODE, AND NATIONAL ELECTRICAL SAFETY CODE.
- BURIED UTILITY LOCATIONS SHOWN ON THE PLAN SHEETS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UTILITIES BEFORE STARTING WORK.
- THE CONTRACTOR SHALL LOCATE AND PROTECT EXISTING UNDERGROUND DUCT RUN ON THE NORTH SIDE OF IL RTE. 64 FROM THE WEST SIDE OF CEDAR RD. TO THE WEST SIDE OF DUNHAM RD. AND EXTENDING NORTH ON DUNHAM AND CEDAR RDS. THE DUCT RUN CONTAINS A 34,500 VOLT SUBTRANSMISSION LINE. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS WHEN WORKING IN THAT AREA TO AVOID CONTACT WITH THE DUCT RUN. THIS WORK MUST BE CLOSELY COORDINATED WITH THE ST. CHARLES ELECTRIC UTILITY.
- ALL ELECTRICAL EQUIPMENT SHALL BE UL LISTED AND LABELLED.
- ALL CONDUITS SHALL BE SEALED.
- ALL CIRCUIT WIRES SHALL BE LABELED WITH CIRCUIT IDENTIFICATION.
- ALL LAMPS SHALL BE FURNISHED AS PART OF THE CONTRACT.

GENERAL NOTES - ROADWAY LIGHTING (CONTINUED)

- CIRCUITS SHALL BE TESTED PER SPECIFICATION.
- THE LOCATIONS OF ALL PROPOSED EQUIPMENT ARE ILLUSTRATED DIAGRAMMATICALLY. THE ACTUAL LOCATION IN THE FIELD SHALL MEET THE APPROVAL OF THE ENGINEER.
- ALL MEASUREMENTS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY MEASUREMENTS IN THE FIELD.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTING INSTALLATIONS AND DATA PRIOR TO BIDDING.
- THE CONTRACTOR MUST MAINTAIN SAFE EQUIPMENT AND WORKING CLEARANCES FROM THE EXISTING SCEU OVERHEAD ELECTRIC LINES. THE CONTRACTOR SHALL PLAN HIS WORK CONSIDERING SCEU'S LINES TO BE IN SERVICE AND ENERGIZED THROUGHOUT THE CONSTRUCTION PERIOD.
- EQUIPMENT GROUNDING CONDUCTORS SHALL BE CONTINUOUS.
- ALL NEW UNIT DUCTS AND UNDERGROUND CONDUITS SHALL BE PLACED A MINIMUM OF 30" BENEATH THE GROUND SURFACE (FINAL GRADE), UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUITS, FOUNDATIONS AND UNIT DUCTS WITH THE ROADWAY, CURB AND SIDEWALK WORK, AND WITH UNDERGROUND UTILITIES.
- AT LOCATIONS, WHERE, DUE TO RIGHT-OF-WAY AND SETBACK LIMITS, THE POLE FOUNDATION ENCRoACHES ON THE SIDEWALK, THE FOUNDATION SHALL BE LOCATED SO AS TO MAINTAIN THE REQUIRED ADA MINIMUM SIDEWALK WIDTH OF 36 INCHES.

GENERAL NOTES - ROADWAY LIGHTING (CONTINUED)

- THE EXISTING LIGHTING SYSTEM VOLTAGE WITHIN THE PROJECTS LIMITS IS 240V.
- THE COST OF SPlicing TEMPORARY CONDUCTORS TO EXISTING CONDUCTORS IN EXISTING POLES SHALL BE INCIDENTAL TO THE PAY ITEM FOR AERIAL CABLE.
- TEMPORARY LIGHTING SHALL REMAIN IN SERVICE UNTIL THE PERMANENT LIGHTING SYSTEM IS IN OPERATION.
- ALL SALVAGED MATERIALS SHALL BE RETURNED TO THE SCEU.
- TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE LIGHT POLES, THE LIGHT POLES SHALL NOT BE ERECTED AND/OR LEFT TO STAND WITHOUT LUMINAIRES.
- THE LOCATION OF THE EXISTING LIGHTING CONTROLLER FOR THE EXISTING LIGHTING UNITS WEST OF 8TH AVENUE IS AT 5TH AVENUE AND IL RTE. 64 (MAIN STREET).
- THE LOCATION OF THE EXISTING LIGHTING CONTROLLER FOR THE EXISTING LIGHTING UNITS NEAR KIRK ROAD IS EAST OF KIRK AT THE MALL ENTRANCE ON THE NORTH SIDE OF IL RTE 64 (MAIN STREET).
- THE CONTRACTOR SHALL REQUEST A FORMAL MAINTENANCE TRANSFER FROM THE SCEU BEFORE WORK BEGINS. CONTACT THE SCEU OFFICE, PHONE (630) 377-4407.
- ALL POLE FOUNDATIONS ARE 24" DIAMETER CONCRETE STANDARD FOUNDATIONS UNLESS NOTED OTHERWISE.
- PROVIDE A 3'-0" SETBACK FROM BACK OF CURB TO FACE OF POLE OR POLE BASE, UNO.
- IF POLE SETBACKS NEED TO BE CHANGED AS A RESULT OF UNFORSEEN FIELD CONDITIONS, THE MINIMUM POLE SETBACK FROM BACK OF CURB TO FACE OF POLE SHALL BE 2'-0".
- WHERE AERIAL CABLES ARE SHOWN ATTACHED TO AN EXISTING OR PROPOSED LIGHTING UNIT, THE CONTRACTOR SHALL PROVIDE GUY WIRES TO SUPPORT THE POLE. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM FOR AERIAL CABLE.
- ALL PROPOSED CONDUITS SHOWN ON THE PLANS AS TRENCHED OR PUSHED SHALL BE INCLUDED UNDER THE "UNDERGROUND CONDUIT" PAY ITEM FOR THE SIZE SHOWN.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129 R-2	KANE	243	145
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

ELECTRICAL STAGING PLAN

ROADWAY	LIGHTING
PRE-CONSTRUCTION	
	FURNISH, INSTALL AND ENERGIZE TEMPORARY LIGHTING AS SHOWN ON SHEETS LT-06, LT-07 AND LT-08. ALL TEMPORARY LUMINAIRES TO HAVE INDIVIDUAL PHOTOCELL CONTROL.
	CITY OF ST. CHARLES TO RELOCATE THE WOOD POLE AT THE SOUTHWEST CORNER OF 8TH AVENUE AND IL RTE. 64.
	CITY OF ST. CHARLES TO REMOVE THE EXISTING STREET LIGHT AND WOOD POLE AT THE SOUTHWEST CORNER OF 11TH AVENUE AND IL RTE. 64.
STAGE 1	
EASTBOUND AND WESTBOUND TRAFFIC MOVED TO NORTH SIDE OF IL RTE 64.	EXISTING LIGHTING ON NORTH SIDE OF IL RTE 64 TO REMAIN IN SERVICE. REMOVE EXISTING LIGHTING FROM SOUTH SIDE.
	FURNISH, INSTALL PROPOSED LIGHTING SYSTEM ON SOUTH SIDE.
	FURNISH, INSTALL AND ENERGIZE LIGHTING CONTROLLERS.
	FURNISH, INSTALL TEMPORARY AERIAL CABLE FEEDS FROM CONTROLLERS TO LIGHTING UNITS ON SOUTH SIDE.
	ENERGIZE PROPOSED LIGHTING UNITS ON SOUTH SIDE.
STAGE 2	
EASTBOUND AND WESTBOUND TRAFFIC MOVED TO SOUTH SIDE OF IL RTE 64.	REMOVE EXISTING AND TEMPORARY LUMINAIRES, MAST ARMS AND WOOD POLES.
	FURNISH, INSTALL AND ENERGIZE PROPOSED LIGHTING SYSTEM ON NORTH SIDE.
	FURNISH, INSTALL PERMANENT FEEDS FROM CONTROLLERS TO LIGHTING UNITS ON SOUTH SIDE.
	REMOVE TEMPORARY FEEDS FROM CONTROLLERS TO LIGHTING UNITS ON SOUTH SIDE.
STAGE 3	
ROADWAY WORK COMPLETE. WESTBOUND TRAFFIC MOVED TO NORTH SIDE OF IL RTE 64.	REMOVE TEMPORARY AERIAL CABLES FROM LIGHTING CONTROLLERS TO LIGHT UNITS ON SOUTH SIDE OF IL RTE 64.
	REMOVE WOOD POLES AT LIGHTING CONTROLLERS.

SYMBOL LIST

DESCRIPTION	PROPOSED	EXISTING TO REMAIN	EXISTING TO BE REMOVED	TEMPORARY
PROPOSED LIGHTING UNIT: 47.5 FT MH, 15 FT MA 310W HPS M-C-III LUMINAIRE WITH BREAKAWAY COUPLING AND SKIRT, UNO				
PROPOSED LIGHTING UNIT: 47.5 FT MH, 2 - 15 FT MA 2 - 310W HPS M-C-III LUMINAIRE WITH BREAKAWAY COUPLING AND SKIRT				
EXISTING LIGHTING UNIT				
UNIT DUCT IN TRENCH, 1 1/2" DIA. POLYETHYLENE WITH 4 - 1/C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE)				
3" RGSC, PUSHED WITH UNIT DUCT (1 1/2" DIA. POLYETHYLENE WITH 4 - 1/C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), UNLESS NOTED OTHERWISE				
3" RGSC, IN TRENCH WITH UNIT DUCT (1 1/2" DIA. POLYETHYLENE WITH 4 - 1/C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE)				
RGSC IN TRENCH, SIZE AND CONDUCTORS AS NOTED ON PLANS				
TEMPORARY LIGHTING UNIT: 60' CLASS 4 WOOD POLE, 400 W HPS WITH PHOTOCELL CONTROL, 50' MH, 15 FT MA, UNO				
TEMPORARY WOOD POLE 60' CLASS 4, UNO				
AERIAL CABLE, 3 - 1/C # 4 WITH MESSENGER WIRE				
GROUND ROD, COPPER-CLAD STEEL, 3/4" DIA. X 10' LONG, UNO				
LIGHTING CONTROLLER CABINET, SINGLE DOOR, BASE MOUNTED, 120/240V, 1-PH, 3-WIRE (DOOR SIDE AS INDICATED)				
SCEU SERVICE PEDESTAL (BY OTHERS)				
SCEU PADMOUNTED TRANSFORMER (BY OTHERS)				
MANHOLE				
WOOD POLE, CITY OF ST. CHARLES				
WOOD POLE, COMCAST				

ABBREVIATIONS

A	AMPERES
AC	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
C	CONDUIT
CKT	CIRCUIT
DCO	DUPLEX CONVENIENCE OUTLET
DIA	DIAMETER
E	EXISTING LIGHTING UNIT TO REMAIN
EPR	ETHYLENE PROPOLYENE RUBBER
FT	FEET
GND	GROUND
HPS	HIGH PRESSURE SODIUM
IDOT	ILLINOIS DEPARTMENT OF TRANSPORTATION
IN	INCHES
LT	LEFT
MA	MAST ARM
MH	MOUNTING HEIGHT
MTW	MACHINE TOOL WIRE
P	PUSHED
PC	PHOTOCELL CONTROL
PH	PHASE
PVC	POLYVINYL CHLORIDE
R	EXISTING LIGHTING UNIT TO BE REMOVED (OWNER SALVAGED)
RGSC	RIGID GALVANIZED STEEL CONDUIT
RT	RIGHT
SB	SETBACK
SCEU	ST. CHARLES ELECTRIC UTILITY
STA	STATION
T	TEMPORARY
TYP	TYPICAL
UD	UNIT DUCT
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
W	WATTS
W	WIRES

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 64
GENERAL NOTES, LEGEND, SHEET INDEX

SCALE: NONE DRAWN BY: M. J. D. L.
DATE: SEPT. 2010 CHECKED BY: I. B.

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11/16/2011 11:42:28 AM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	I29 R-2	KANE	243	146
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

ROADWAY LIGHTING BILL OF MATERIALS		
ITEM	UNIT	TOTAL QUANTITY
ELECTRIC SERVICE INSTALLATION	EACH	2
ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	105
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	515
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	4,060
UNDERGROUND CONDUIT, GALVANIZED STEEL, 5" DIA.	FOOT	170
UNIT DUCT, 600V, 4-1/C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	15,300
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 3/0	FOOT	405
AERIAL CABLE, 4-1/C NO. 4 WITH MESSENGER WIRE	FOOT	4,080
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 310 WATT	EACH	82
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 310 WATT	EACH	19
LIGHTING CONTROLLER, BASE MOUNTED, 120/240VOLT, 200AMP, SPECIAL	EACH	2
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 8 FT. MAST ARM	EACH	1
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM	EACH	79
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 2-15 FT. MAST ARMS	EACH	1
LIGHT POLE, WOOD, 60 FOOT, CLASS 4, WITH 15FT MAST ARM	EACH	17
LIGHT POLE, WOOD, 60 FOOT, CLASS 4, WITH TWO 15FT MAST ARMS	EACH	1
TEMPORARY WOOD POLE, 60 FT., CLASS 4	EACH	2
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	567
BREAKAWAY DEVICE, COUPLING, WITH ALUMINUM SKIRT	EACH	324
REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	18
REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	27
REMOVAL OF POLE FOUNDATION	EACH	14
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	6,090
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	98
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	18

LT-02

ILLINOIS DEPARTMENT OF TRANSPORTATION

**ILLINOIS ROUTE 64
ROADWAY LIGHTING
BILL OF MATERIALS**

SCALE: NONE
DATE: SEPT, 2010

DRAWN BY: M. J./D. L.
CHECKED BY: I. B.

REVISIONS	
NAME	DATE



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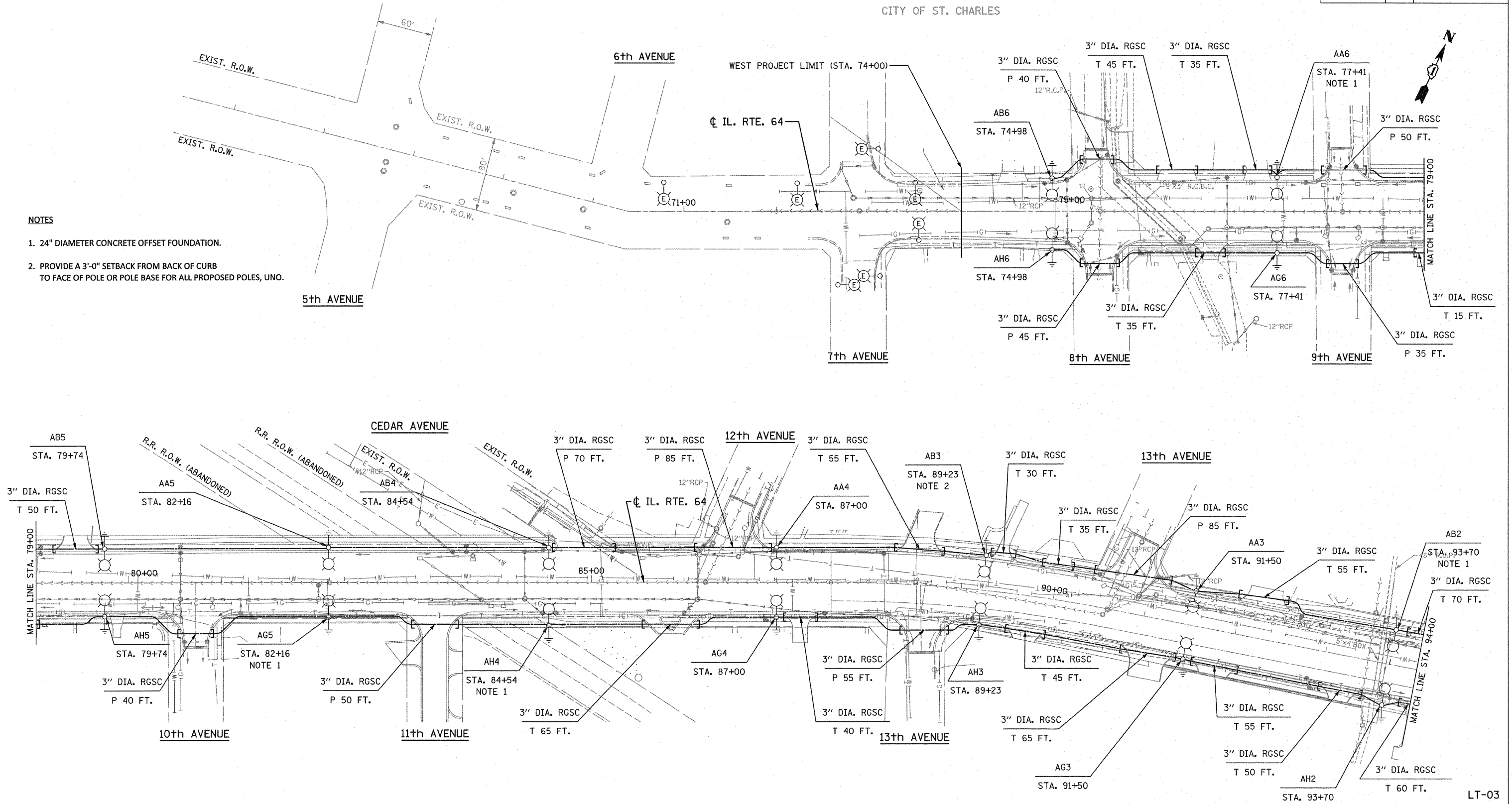
CHRISTIAN-ROGE & ASSOCIATES, INC.
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CHICAGO, ILLINOIS 60606
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

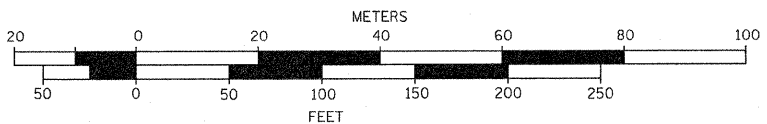
CITY OF ST. CHARLES

- NOTES**
- 24" DIAMETER CONCRETE OFFSET FOUNDATION.
 - PROVIDE A 3'-0" SETBACK FROM BACK OF CURB TO FACE OF POLE OR POLE BASE FOR ALL PROPOSED POLES, UNO.



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GRAPHIC SCALE



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**ILLINOIS ROUTE 64
PROPOSED LIGHTING PLAN
STA. 71+00 TO STA. 94+00**

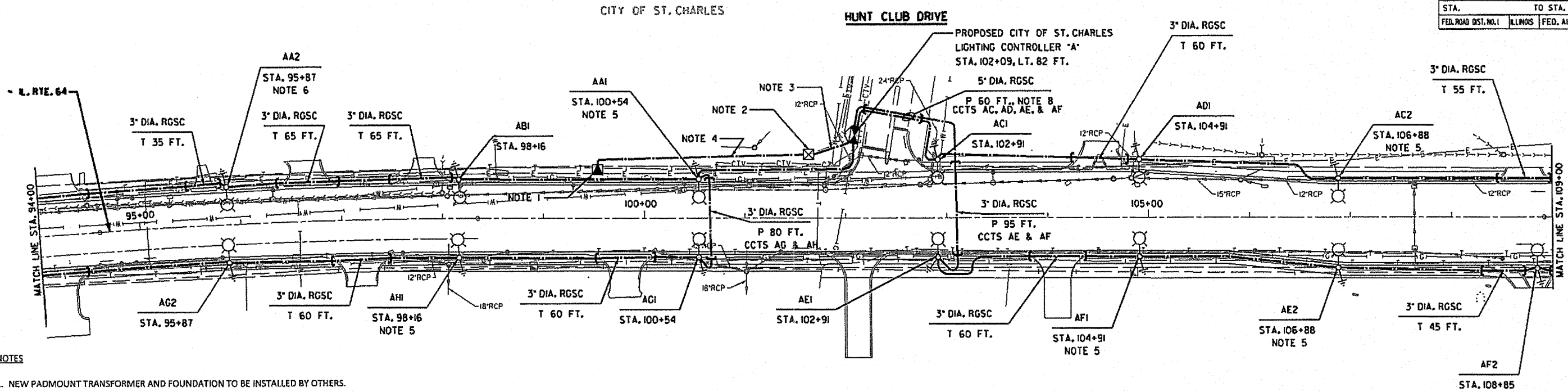
SCALE: VERT.: N.A.
HORIZ.: 1" = 50'
DATE: SEPT. 2010

DRAWN BY: M. J./D. L.
CHECKED BY: I. B.

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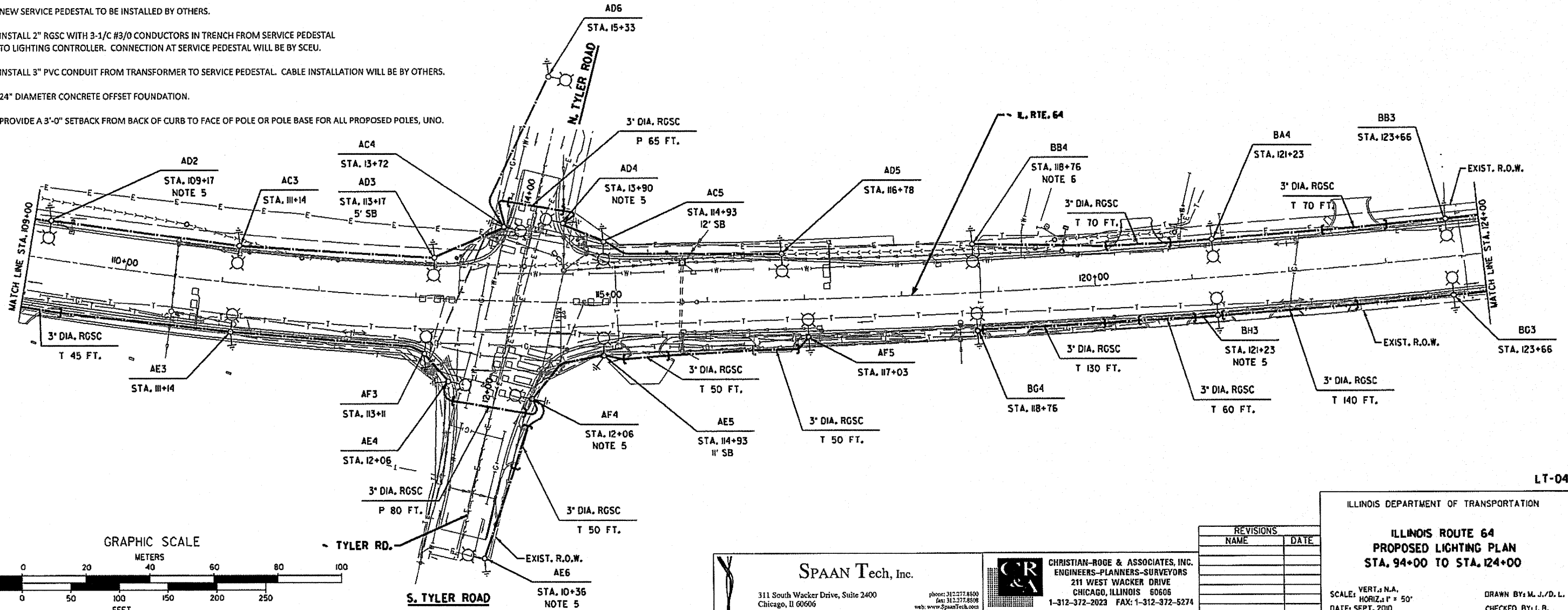
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1-312-372-2023 FAX: 1-312-372-5274

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

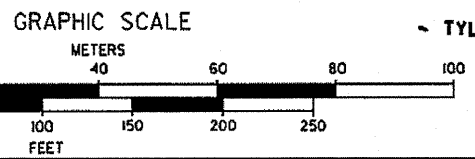


NOTES

1. NEW PADMOUNT TRANSFORMER AND FOUNDATION TO BE INSTALLED BY OTHERS.
2. NEW SERVICE PEDESTAL TO BE INSTALLED BY OTHERS.
3. INSTALL 2" RGSC WITH 3-1/C #3/0 CONDUCTORS IN TRENCH FROM SERVICE PEDESTAL TO LIGHTING CONTROLLER. CONNECTION AT SERVICE PEDESTAL WILL BE BY SCEU.
4. INSTALL 3" PVC CONDUIT FROM TRANSFORMER TO SERVICE PEDESTAL. CABLE INSTALLATION WILL BE BY OTHERS.
5. 24" DIAMETER CONCRETE OFFSET FOUNDATION.
6. PROVIDE A 3'-0" SETBACK FROM BACK OF CURB TO FACE OF POLE OR POLE BASE FOR ALL PROPOSED POLES, UNO.



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REVISIONS	
NAME	DATE

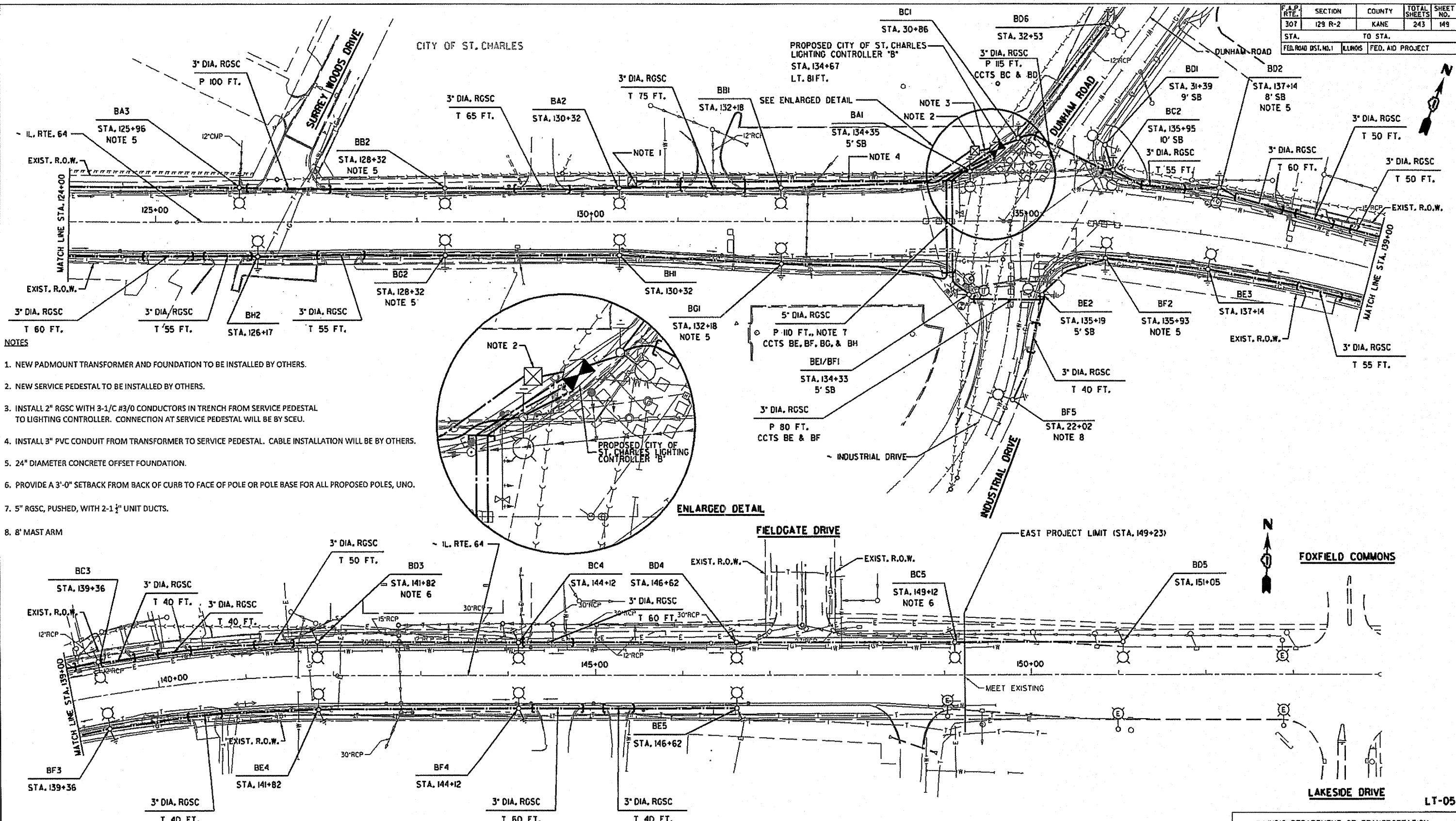
ILLINOIS DEPARTMENT OF TRANSPORTATION

**ILLINOIS ROUTE 64
 PROPOSED LIGHTING PLAN
 STA. 94+00 TO STA. 124+00**

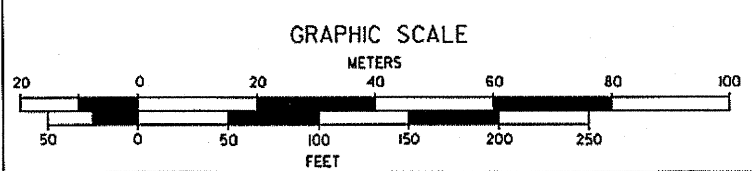
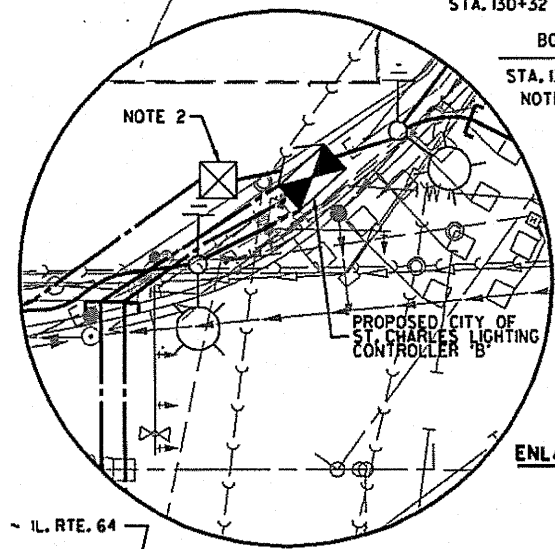
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 HORIZ. 1"= 50'
 DATE: SEPT, 2010

DRAWN BY: M. J./D. L.
 CHECKED BY: L. B.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129 R-2	KANE	243	149
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



- NOTES**
1. NEW PADMOUNT TRANSFORMER AND FOUNDATION TO BE INSTALLED BY OTHERS.
 2. NEW SERVICE PEDESTAL TO BE INSTALLED BY OTHERS.
 3. INSTALL 2" RGSC WITH 3-1/C #3/0 CONDUCTORS IN TRENCH FROM SERVICE PEDESTAL TO LIGHTING CONTROLLER. CONNECTION AT SERVICE PEDESTAL WILL BE BY SCEU.
 4. INSTALL 3" PVC CONDUIT FROM TRANSFORMER TO SERVICE PEDESTAL. CABLE INSTALLATION WILL BE BY OTHERS.
 5. 24" DIAMETER CONCRETE OFFSET FOUNDATION.
 6. PROVIDE A 3'-0" SETBACK FROM BACK OF CURB TO FACE OF POLE OR POLE BASE FOR ALL PROPOSED POLES, UNO.
 7. 5" RGSC, PUSHED, WITH 2-1 1/4" UNIT DUCTS.
 8. 8' MAST ARM



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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**ILLINOIS ROUTE 64
 PROPOSED LIGHTING PLAN
 STA. 124+00 TO STA. 153+00 &
 INDUSTRIAL DRIVE / DUNHAM ROAD**
 SCALE: VERT. 1" = 10'
 HORIZ. 1" = 50'
 DATE: SEPT, 2010
 DRAWN BY: M. J. D. L.
 CHECKED BY: I. B.

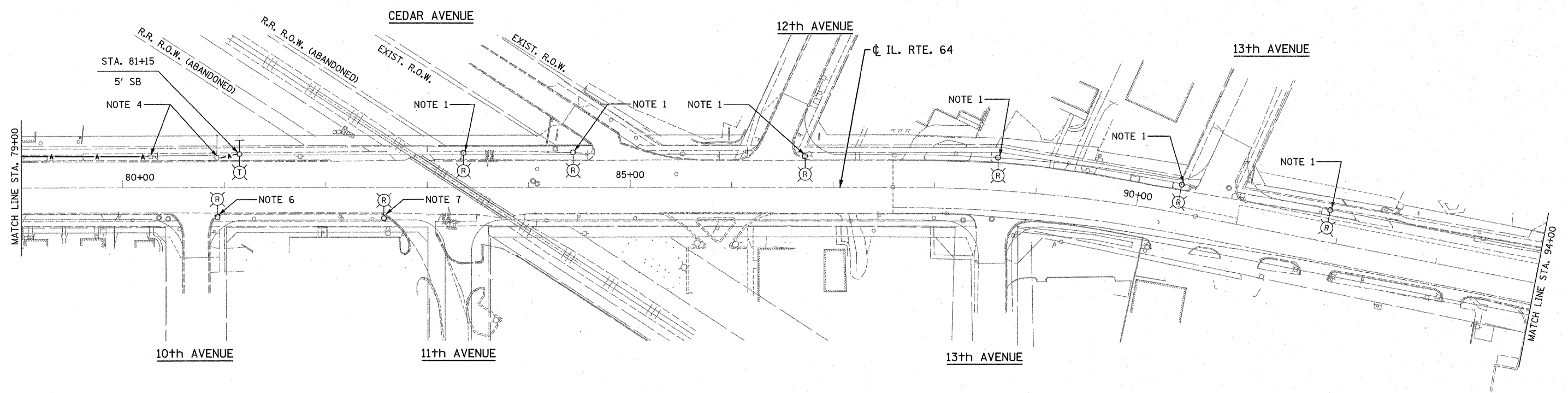
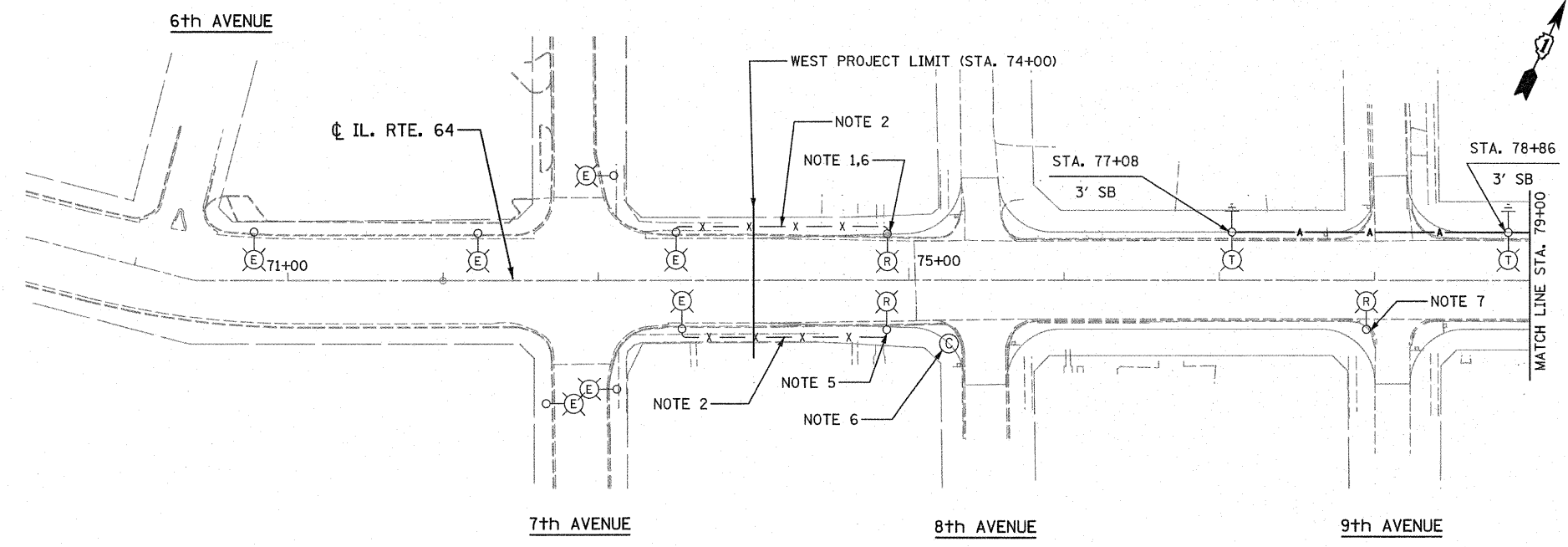
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129 R-2	KANE	243	150
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

NOTES

- EXISTING LIGHTING UNIT AND ASSOCIATED CABLES AND WOOD POLES TO BE REMOVED AFTER STAGE 1 CONSTRUCTION IS COMPLETE AND PROPOSED LIGHT UNITS ON THE SOUTH SIDE OF ILLINOIS ROUTE 64 ARE OPERATIONAL. CONTRACTOR SHALL REMOVE ALL WOOD POLES ASSOCIATED WITH TEMPORARY LIGHTING, INCLUDING THOSE WOOD POLES WITH ONLY AERIAL CABLES BUT NO LUMINAIRES. LUMINAIRES, MAST ARMS AND POLES SHALL BE RETURNED TO SCEU FOR SALVAGE. COORDINATE REMOVAL WITH SCEU. CONTACT MR. GARY SITTLER, PHONE (630) 377-4407.
- EXISTING OVERHEAD DISTRIBUTION LINES ON THE NORTH SIDE OF ILLINOIS ROUTE 64 WILL BE REMOVED BY SCEU PRIOR TO THE START OF CONSTRUCTION. EXISTING AERIAL CABLES ON POLE FOR STREET LIGHTS TO REMAIN UNTIL STAGE ONE CONSTRUCTION IS COMPLETE AND PROPOSED LIGHT UNITS ON THE SOUTH SIDE OF ILLINOIS ROUTE 64 ARE OPERATIONAL.
- ATTACH AERIAL CABLES AT HEIGHTS THAT WILL PROVIDE CLEARANCE TO GROUND PER NATIONAL ELECTRICAL CODE, SECTION 225.18.
- SCEU WILL TERMINATE THE AERIAL CABLES AT THEIR 240-VOLT SECONDARY. CONTACT MR. GARY SITTLER, PHONE (630) 377-4407.
- LIGHT UNIT TO BE REMOVED BY CITY OF SAINT CHARLES. CONTRACTOR TO REMOVE FOUNDATION.
- EXISTING WOOD POLE TO BE RELOCATED BY CITY OF SAINT CHARLES.
- STREET LIGHT TO BE REMOVED BY CITY OF SAINT CHARLES.

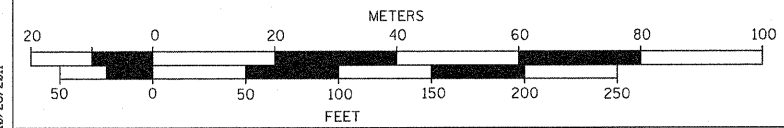
CITY OF ST. CHARLES



LT-06

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GRAPHIC SCALE



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REVISIONS	
NAME	DATE

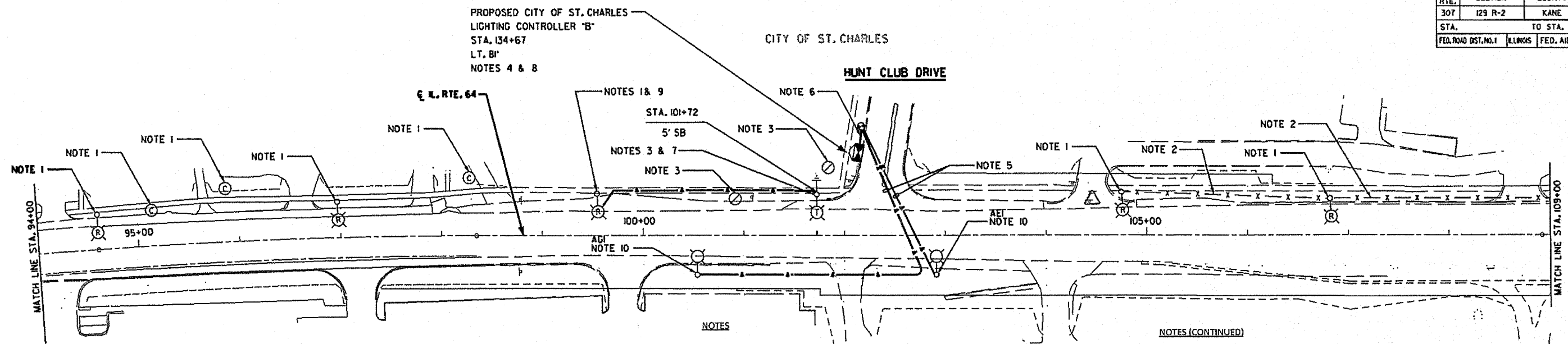
ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 64
 EXISTING AND TEMPORARY LIGHTING PLAN
 STA. 71+00 TO STA. 94+00

SCALE: VERT.: N.A.
 HORIZ.: 1" = 50'
 DATE: SEPT. 2010

DRAWN BY: M. J./D. L.
 CHECKED BY: I. B.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	I29 R-2	KANE	243	151
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

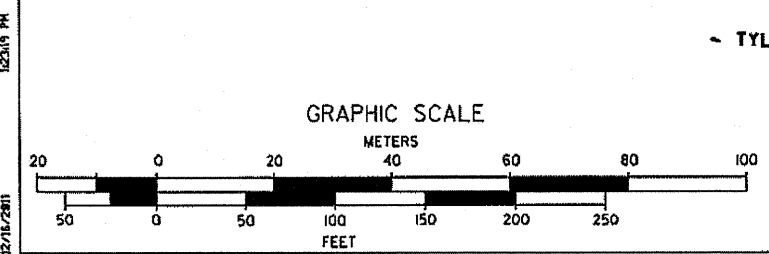
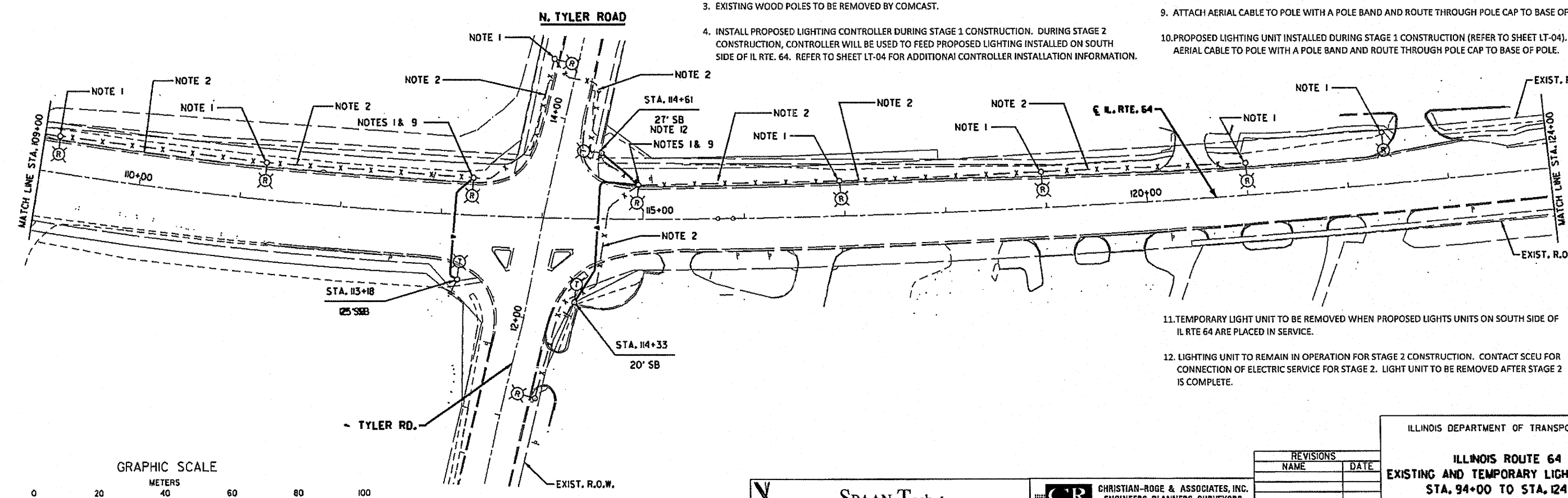


NOTES

- EXISTING LIGHTING UNIT AND ASSOCIATED CABLES AND WOOD POLES TO BE REMOVED AFTER STAGE 1 CONSTRUCTION IS COMPLETE AND PROPOSED LIGHT UNITS ON THE SOUTH SIDE OF IL RTE. 64 ARE OPERATIONAL UNLESS NOTED OTHERWISE. CONTRACTOR SHALL REMOVE ALL WOOD POLES ASSOCIATED WITH TEMPORARY LIGHTING, INCLUDING THOSE WOOD POLES WITH ONLY AERIAL CABLES BUT NO LUMINAIRES. LUMINAIRES, MAST ARMS AND POLES SHALL BE RETURNED TO SCEU FOR SALVAGE. REMOVAL COST FOR THESE WOOD POLES SHALL BE PAID FOR UNDER THE PAY ITEM FOR REMOVAL OF TEMPORARY LIGHT UNIT. COORDINATE REMOVAL WITH SCEU. CONTACT MR. GARY SITTLER, PHONE (630) 377-4407.
- AFTER STAGE 1 CONSTRUCTION IS COMPLETE AND PROPOSED LIGHT UNITS ON THE SOUTH SIDE OF IL RTE. 64 ARE OPERATIONAL, REMOVE CONDUCTORS FROM EXISTING RACEWAY BETWEEN POLES AND ABANDON RACEWAY IN PLACE.
- EXISTING WOOD POLES TO BE REMOVED BY COMCAST.
- INSTALL PROPOSED LIGHTING CONTROLLER DURING STAGE 1 CONSTRUCTION. DURING STAGE 2 CONSTRUCTION, CONTROLLER WILL BE USED TO FEED PROPOSED LIGHTING INSTALLED ON SOUTH SIDE OF IL RTE. 64. REFER TO SHEET LT-04 FOR ADDITIONAL CONTROLLER INSTALLATION INFORMATION.

NOTES (CONTINUED)

- FOR STAGE 2 CONSTRUCTION, INSTALL TEMPORARY AERIAL CABLE FEED FROM LIGHTING CONTROLLER TO PROPOSED LIGHTING UNITS ON SOUTH SIDE OF ILLINOIS ROUTE 64.
- 3" RGSC WITH (2) 3-1/C #4 AERIAL CABLE AND 1-1/C #6 GROUND FROM CONTROLLER TO TEMPORARY WOOD POLE FOR TEMPORARY FEEDS TO LIGHTING CIRCUITS ON SOUTH SIDE OF IL RTE. 64 DURING STAGE 2 CONSTRUCTION. GROUND CONDUCTOR SHALL BE INCLUDED IN THE PAY ITEM FOR AERIAL CABLE.
- SCEU WILL TERMINATE THE AERIAL CABLES AT THEIR 240-VOLT SECONDARY. CONTACT MR. GARY SITTLER, PHONE: (630) 377-4407.
- REFER TO SHEET LT-04 FOR CONTROLLER AND SERVICE INSTALLATION.
- ATTACH AERIAL CABLE TO POLE WITH A POLE BAND AND ROUTE THROUGH POLE CAP TO BASE OF POLE.
- PROPOSED LIGHTING UNIT INSTALLED DURING STAGE 1 CONSTRUCTION (REFER TO SHEET LT-04). ATTACH AERIAL CABLE TO POLE WITH A POLE BAND AND ROUTE THROUGH POLE CAP TO BASE OF POLE.



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 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 1-312-372-2023 FAX: 1-312-372-5274

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**ILLINOIS ROUTE 64
 EXISTING AND TEMPORARY LIGHTING PLAN
 STA. 94+00 TO STA. 124+00**

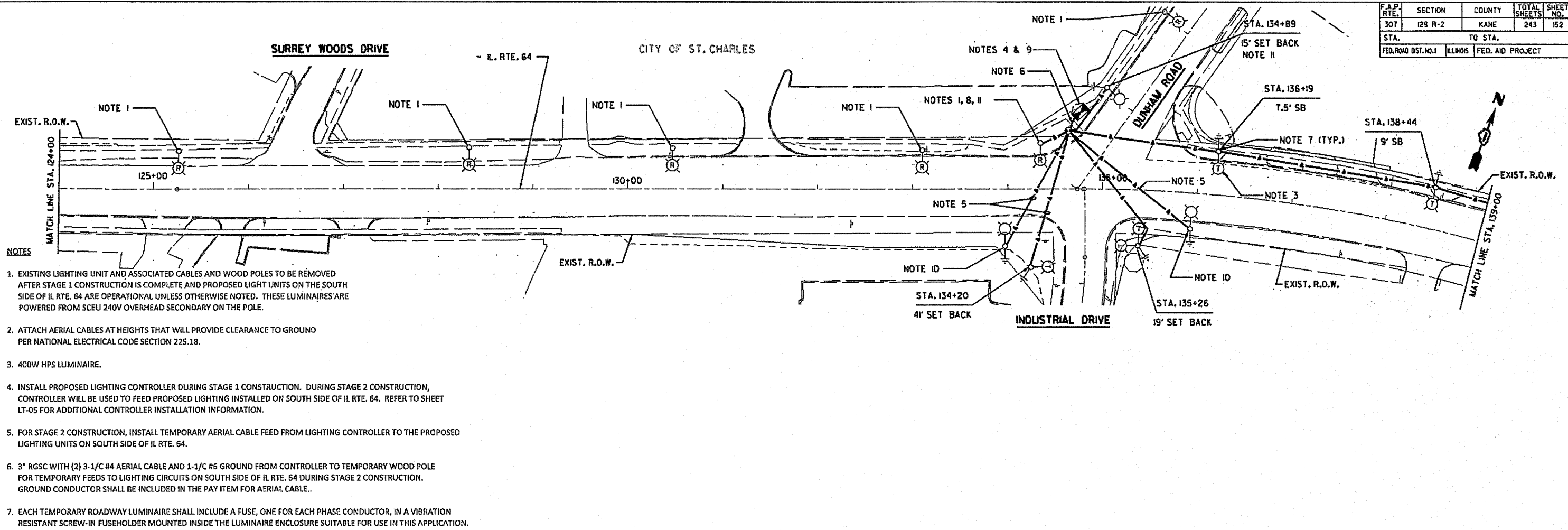
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 SCALE: HORIZ. 1" = 50'
 DATE: SEPT. 2010

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 CHECKED BY: I. B.

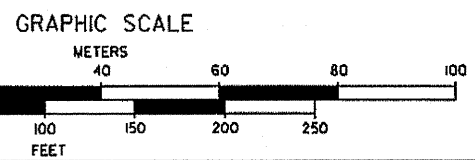
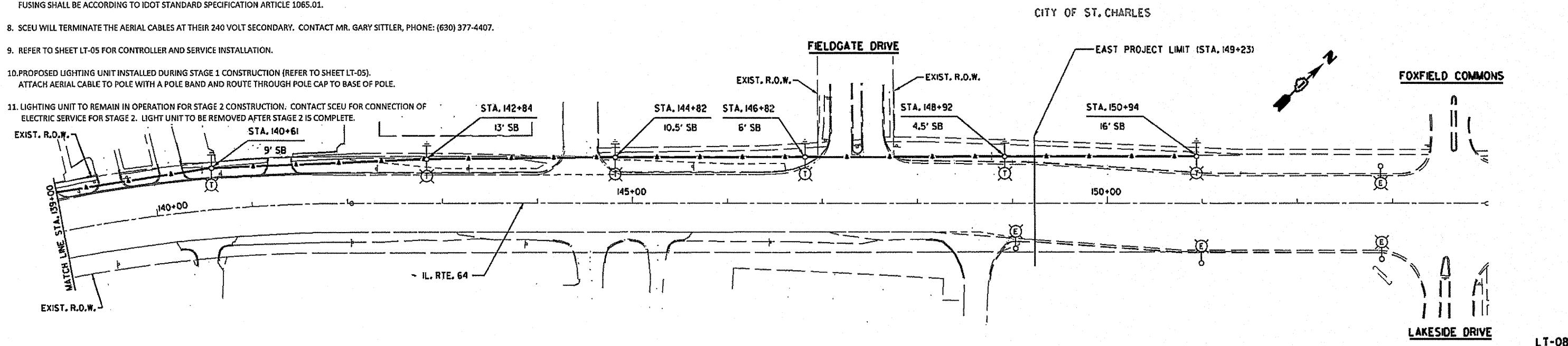
LT-07

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	I29 R-2	KANE	243	152
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



- NOTES**
- EXISTING LIGHTING UNIT AND ASSOCIATED CABLES AND WOOD POLES TO BE REMOVED AFTER STAGE 1 CONSTRUCTION IS COMPLETE AND PROPOSED LIGHT UNITS ON THE SOUTH SIDE OF IL RTE. 64 ARE OPERATIONAL UNLESS OTHERWISE NOTED. THESE LUMINAIRES ARE POWERED FROM SCEU 240V OVERHEAD SECONDARY ON THE POLE.
 - ATTACH AERIAL CABLES AT HEIGHTS THAT WILL PROVIDE CLEARANCE TO GROUND PER NATIONAL ELECTRICAL CODE SECTION 225.18.
 - 400W HPS LUMINAIRE.
 - INSTALL PROPOSED LIGHTING CONTROLLER DURING STAGE 1 CONSTRUCTION. DURING STAGE 2 CONSTRUCTION, CONTROLLER WILL BE USED TO FEED PROPOSED LIGHTING INSTALLED ON SOUTH SIDE OF IL RTE. 64. REFER TO SHEET LT-05 FOR ADDITIONAL CONTROLLER INSTALLATION INFORMATION.
 - FOR STAGE 2 CONSTRUCTION, INSTALL TEMPORARY AERIAL CABLE FEED FROM LIGHTING CONTROLLER TO THE PROPOSED LIGHTING UNITS ON SOUTH SIDE OF IL RTE. 64.
 - 3" RGSC WITH (2) 3-1/2" #4 AERIAL CABLE AND 1-1/2" #6 GROUND FROM CONTROLLER TO TEMPORARY WOOD POLE FOR TEMPORARY FEEDS TO LIGHTING CIRCUITS ON SOUTH SIDE OF IL RTE. 64 DURING STAGE 2 CONSTRUCTION. GROUND CONDUCTOR SHALL BE INCLUDED IN THE PAY ITEM FOR AERIAL CABLE.
 - EACH TEMPORARY ROADWAY LUMINAIRE SHALL INCLUDE A FUSE, ONE FOR EACH PHASE CONDUCTOR, IN A VIBRATION RESISTANT SCREW-IN FUSEHOLDER MOUNTED INSIDE THE LUMINAIRE ENCLOSURE SUITABLE FOR USE IN THIS APPLICATION. FUSING SHALL BE ACCORDING TO IDOT STANDARD SPECIFICATION ARTICLE 1065.01.
 - SCEU WILL TERMINATE THE AERIAL CABLES AT THEIR 240 VOLT SECONDARY. CONTACT MR. GARY SITTLER, PHONE: (630) 377-4407.
 - REFER TO SHEET LT-05 FOR CONTROLLER AND SERVICE INSTALLATION.
 - PROPOSED LIGHTING UNIT INSTALLED DURING STAGE 1 CONSTRUCTION (REFER TO SHEET LT-05). ATTACH AERIAL CABLE TO POLE WITH A POLE BAND AND ROUTE THROUGH POLE CAP TO BASE OF POLE.
 - LIGHTING UNIT TO REMAIN IN OPERATION FOR STAGE 2 CONSTRUCTION. CONTACT SCEU FOR CONNECTION OF ELECTRIC SERVICE FOR STAGE 2. LIGHT UNIT TO BE REMOVED AFTER STAGE 2 IS COMPLETE.



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 311 South Wacker Drive, Suite 2400
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 phone: 312.277.8500
 fax: 312.277.8508
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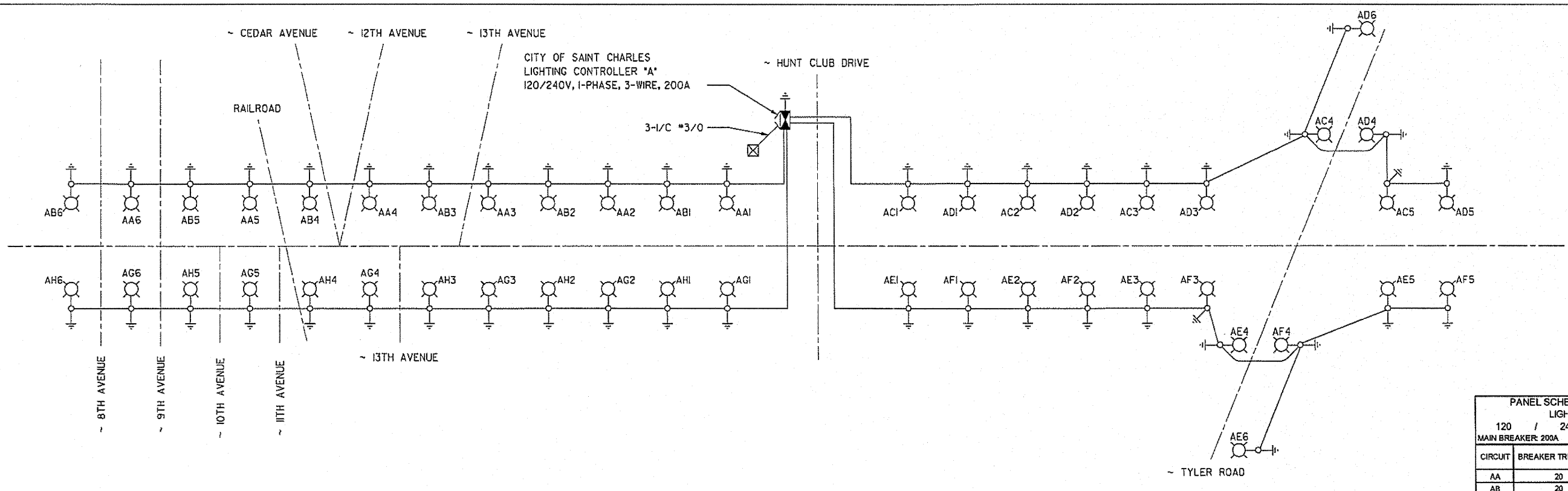
CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 1-312-372-2023 FAX: 1-312-372-5274

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**ILLINOIS ROUTE 64
 EXISTING AND TEMPORARY LIGHTING PLAN
 STA. 124+00 TO STA. 153+00 &
 INDUSTRIAL DRIVE / DUNHAM ROAD**
 SCALE: VERT.: N.A.
 HORIZ.: 1" = 50'
 DATE: SEPT. 2010
 DRAWN BY: M. J./D. L.
 CHECKED BY: I. B.

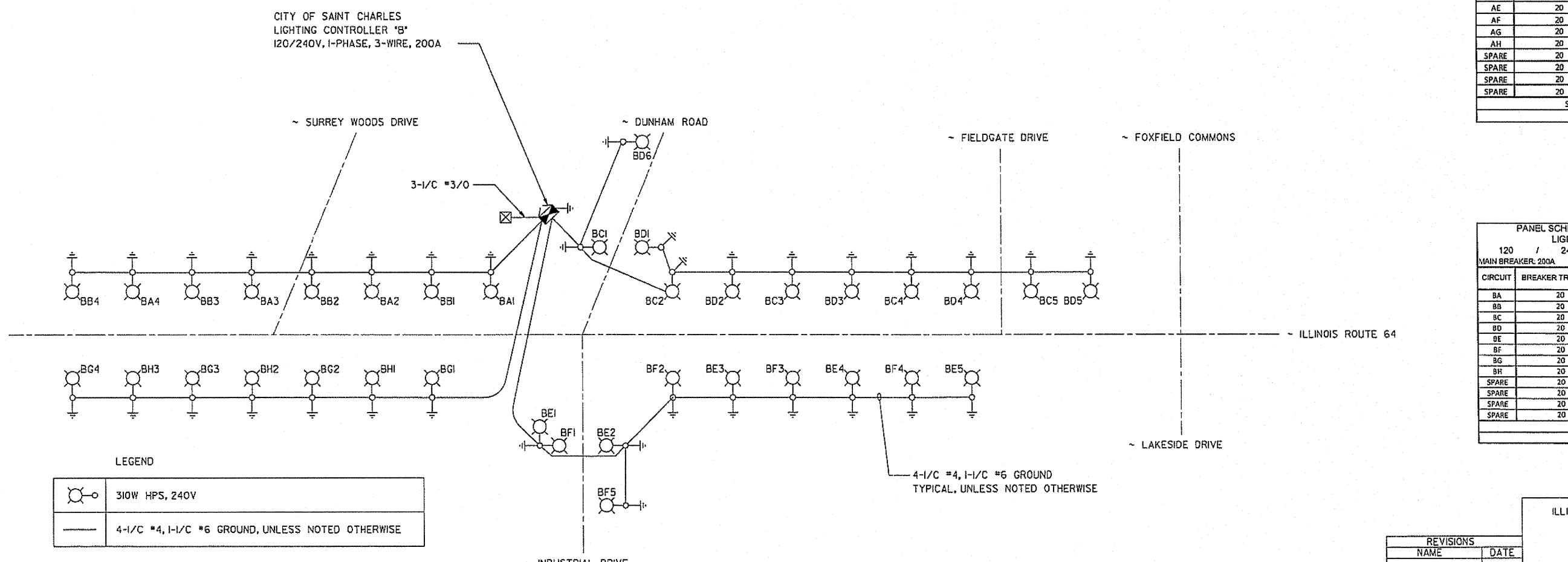
12/15/2011 11:44:14 AM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	I29 R-2	KANE	243	153
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



**PANEL SCHEDULE AND LOAD TABULATION
LIGHTING CONTROLLER A**
120 / 240 VOLTS 1-PHASE, 3-WIRE
MAIN BREAKER 200A

CIRCUIT	BREAKER TRIP AMPS	KW		AMPS
		BLACK	RED	
AA	20	1.2	1.2	9.7
AB	20	1.2	1.2	9.7
AC	20	1.0	1.0	8.1
AD	20	1.0	1.0	8.1
AE	20	1.2	1.2	9.7
AF	20	1.0	1.0	8.1
AG	20	1.2	1.2	9.7
AH	20	1.2	1.2	9.7
SPARE	20			0.0
SPARE	20			0.0
SPARE	20			0.0
SPARE	20			0.0
SPARE	20			0.0
SUBTOTAL		8.7	8.7	--
TOTAL		17.4	17.4	72.6



**PANEL SCHEDULE AND LOAD TABULATION
LIGHTING CONTROLLER B**
120 / 240 VOLTS 1-PHASE, 3-WIRE
MAIN BREAKER 200A

CIRCUIT	BREAKER TRIP AMPS	KW		AMPS
		BLACK	RED	
BA	20	0.8	0.8	6.5
BB	20	0.8	0.8	6.5
BC	20	1.0	1.0	8.1
BD	20	1.2	1.2	9.7
BE	20	1.0	1.0	8.1
BF	20	1.0	1.0	8.1
BG	20	0.8	0.8	6.5
BH	20	0.6	0.6	4.8
SPARE	20			0.0
SPARE	20			0.0
SPARE	20			0.0
SPARE	20			0.0
SPARE	20			0.0
SUBTOTAL		7.0	7.0	--
TOTAL		14.0	14.0	58.3

LEGEND

	310W HPS, 240V
	4-1/2" #4, 1-1/2" #6 GROUND, UNLESS NOTED OTHERWISE

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REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**ILLINOIS ROUTE 64
SINGLE LINE DIAGRAM
LIGHTING CONTROLLERS 'A' & 'B'**

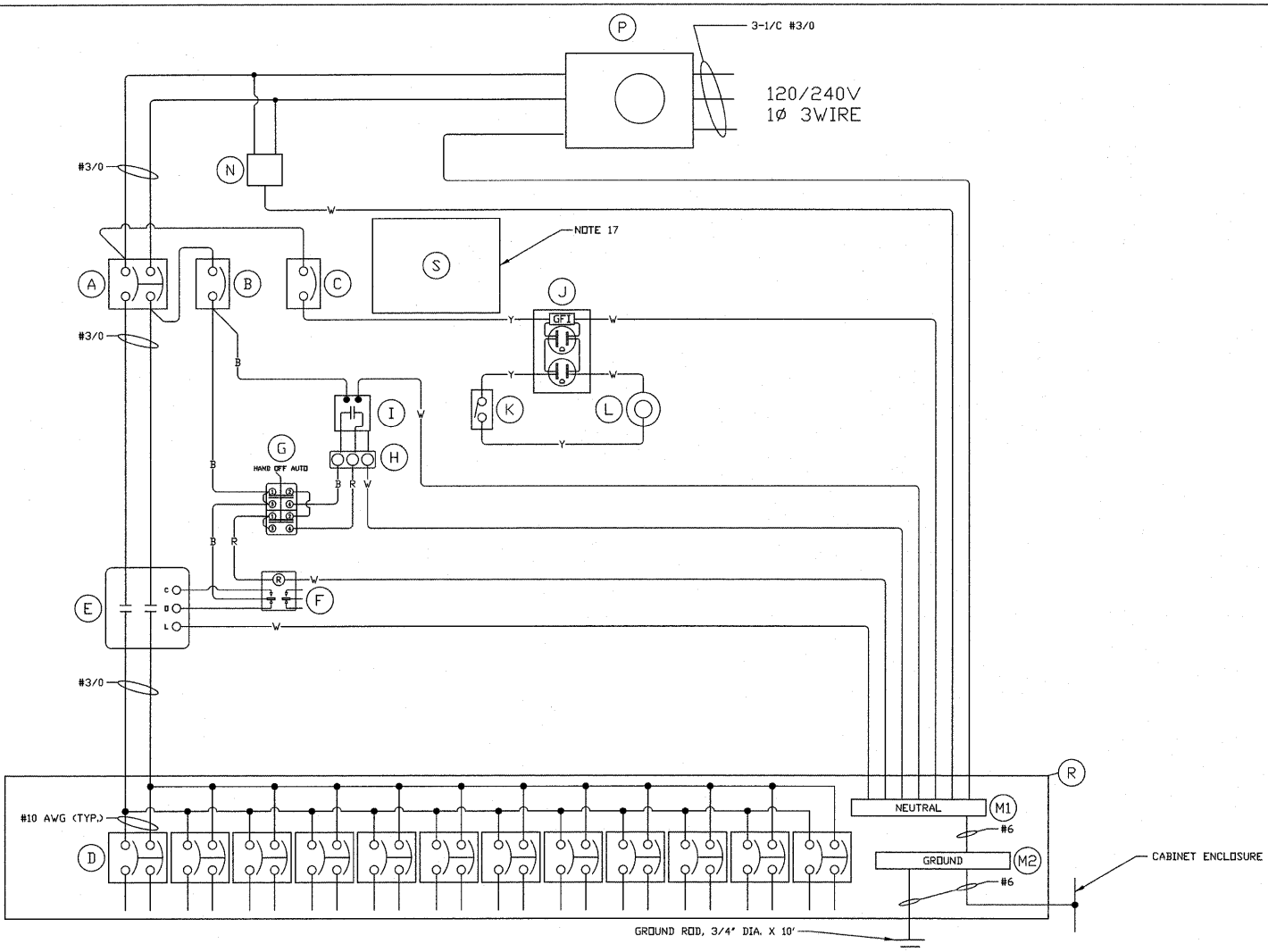
SCALE: NONE
DATE: SEPT. 2010

DRAWN BY: M. J./D. L.
CHECKED BY: I. B.

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LT-09

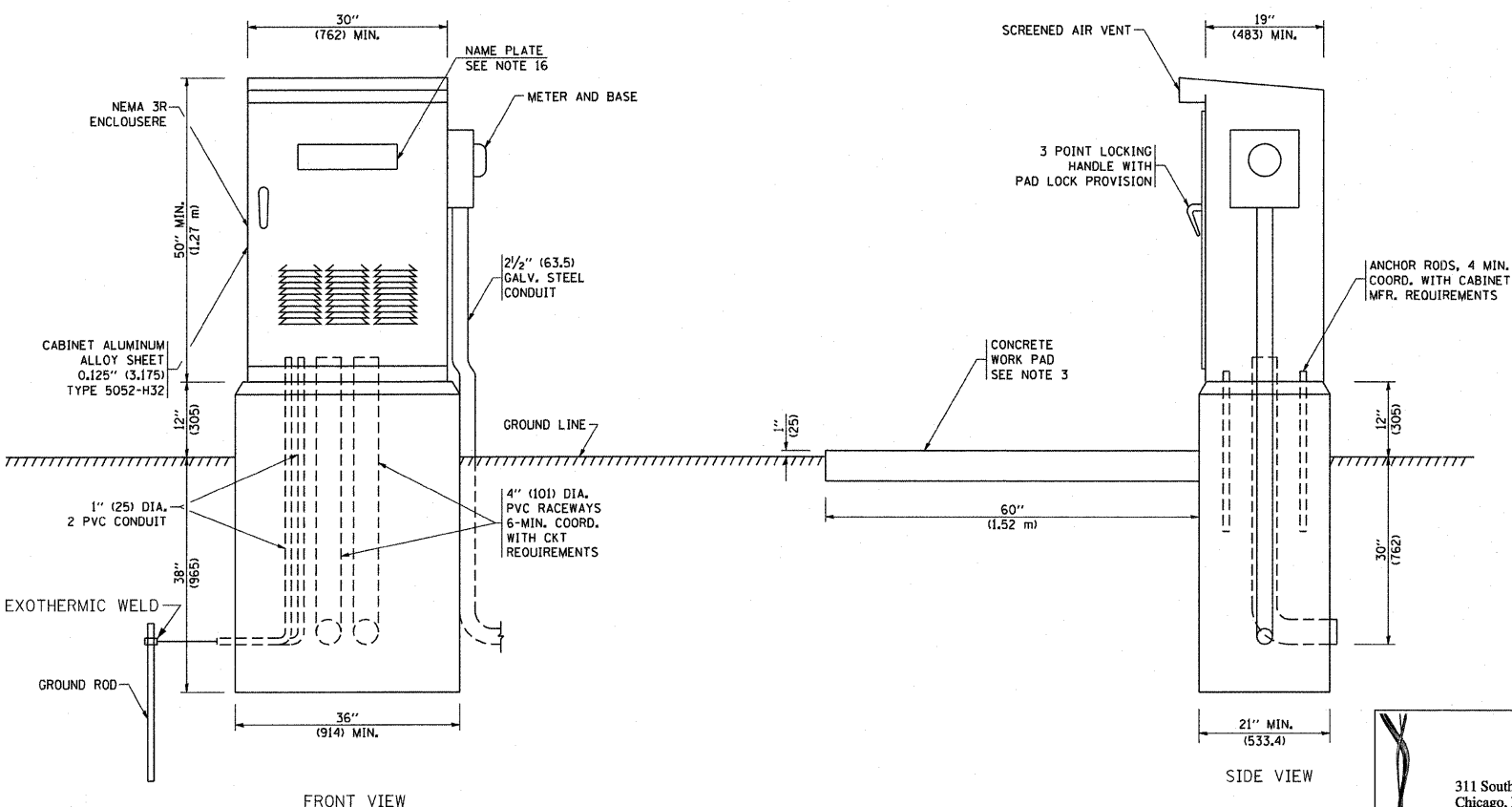
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129 R-2	KANE	243	154
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



DEVICE SCHEDULE		
ITEM	QTY.	DESCRIPTION
(A)	1	CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 2-POLE, 240V A.C., 225A FRAME, 200A NON-INTERCHANGABLE TRIP, BOLT-ON TYPE, INTERRUPTING CAPACITY OF NOT LESS THAN 22,000 RMS SYMMETRICAL AMPERES AT 240V.
(B)	1	CONTROL BREAKER, MOLDED CASE, THERMAL MAGNETIC, 1-POLE, 120V, A.C., BOLT-ON TYPE, 15A, WITH AN INTERRUPTING CAPACITY OF NOT LESS THAN 22,000 RMS SYMMETRICAL AMPERES AT 240V.
(C)	1	AUXILIARY BREAKER, MOLDED CASE, THERMAL MAGNETIC, 1-POLE, 120V A.C., BOLT-ON TYPE, 205A, WITH AN INTERRUPTING CAPACITY OF NOT LESS THAN 22,000 RMS SYMMETRICAL AMPERES AT 240V.
(D)	12	BRANCH BREAKERS, 2-POLE, 240V A.C., 20A, BOLT-ON TYPE, INTERRUPTING CAPACITY OF NOT LESS THAN 22,000 RMS SYMMETRICAL AMPERES AT 240V.
(E)	1	LIGHTING CONTACTOR, MECHANICALLY HELD, MOUNTED ON SUB PANEL, 200A., 2-POLE, 240V, WITH 120V COIL. ASCO 920 OR APPROVED EQUIVALENT.
(F)	1	COIL RELAY, 25A CONTACT RATING, 120V, MAGNECRAFT W389ACX-9 OR APPROVED EQUIVALENT.
(G)	1	HAND-OFF-AUTO CONTROL SWITCH, SQUARE D 9001KYK111 OR APPROVED EQUIVALENT.
(H)	1	TERMINAL BLOCK, 3-POLE, CINCH OR EQUIVALENT.
(I)	1	TIME CLOCK, 240V, 60 HZ, MICROPROCESSOR BASED 2-CHANNEL CONTROLLER WITH ASTRONOMIC FUNCTIONS. RATED FOR -30 DEGREES C. TO +70 DEGREES C.
(J)	1	GFI RECEPTACLE, 120V 20A, PREMIUM SPEC. GRADE, NEMA REFERENCE 5-15R, IN WEATHER-PROOF BOX WITH FLAP-TYPE COVER.
(K)	1	DOOR SWITCH, 120V 20A, 1-POLE
(L)	1	LIGHT FIXTURE, 60 WATT INCANDESCENT, VAPOR TIGHT, WITH GLOBE AND GUARD AND MOUNTING BOX.
(M1)	1	NEUTRAL BUS
(M2)	1	GROUND BUS
(N)	1	SURGE SUPPRESSOR, SQUARE D SDSA1175 OR APPROVED EQUIVALENT.
(O)		NOT USED
(P)	1	METER FITTING, MILBANK UB949
(R)	1	PANELBOARD, INTERIOR ONLY, 120/240V, 1-PHASE, WITH 200A COPPER MAINS AND 12-2P 20A BOLT-ON BRANCH BREAKERS EACH RATED 240V. WITH INTERRUPTING CAPACITY OF NOT LESS THAN 22,000A SYMMETRICAL AT 240V.
(S)	1	RED NAMEPLATE WITH WHITE LETTERS ENGRAVED "LIVE CIRCUITS EVEN WHEN MAIN CIRCUIT BREAKER IS IN OFF POSITION".

NOTES:

- ALL POWER WIRING SHALL BE RHH/RHW
- ALL CONTROL WIRING SHALL BE #12 AWG MTW
- WIRE COLORS:
BL = BLUE
W = WHITE
B = BLACK
R = RED
Y = YELLOW
- ALL CONDUCTORS SHALL BE COPPER.



- NOTES:**
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 - FOUNDATION SIZE SHALL BE COORDINATED WITH CABINET SIZE AND MFR.
 - IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" (50.8 mm) TOP SOIL, LEVEL THE AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 36" (914.4 mm) x 60" (18,288 m) x 4" (101 mm) MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
 - DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
 - DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
 - DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 1/4" (6.35 mm) DIA. STAINLESS STEEL HINGE PIN.
 - ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
 - NOT USED
 - METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
 - CABINETS SHALL BE PRIMED AND PAINTED AS SPECIFIED.
 - THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
 - THE CONTROLLER SHALL BE SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT.
 - PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
 - ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
 - THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
 - 12" (304.8) X 16" (406.4 mm) STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "CITY OF ST. CHARLES LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.
 - LOCATE NAMEPLATE NEAR MAIN BREAKER.

LT-10

ILLINOIS DEPARTMENT OF TRANSPORTATION

**ILLINOIS ROUTE 64
LIGHTING CONTROLLER**

SCALE: NONE
DATE: SEPT. 2010

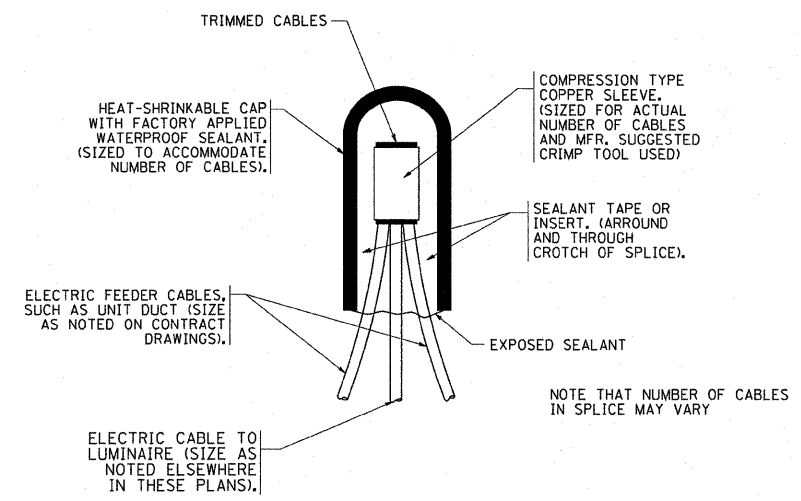
DRAWN BY: M. J./D. L.
CHECKED BY: I. B.

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phone: 312.277.8800
fax: 312.277.8808
web: www.SpanTech.com

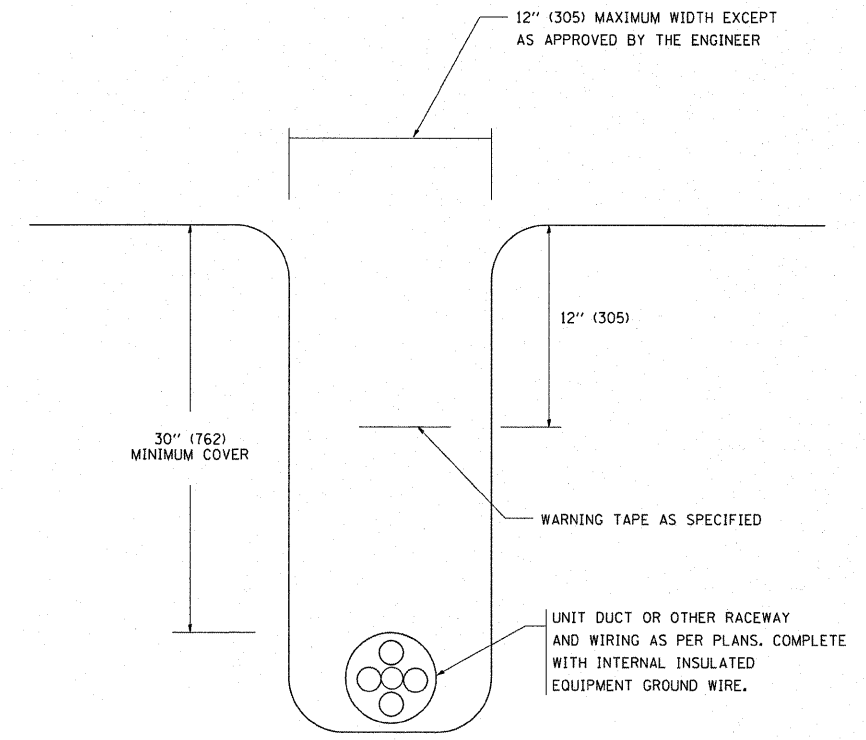
CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS-PLANNERS-SURVEYORS
211 WEST WACKER DRIVE
CHICAGO, ILLINOIS 60606
1-312-372-2023 FAX: 1-312-372-5274

11/4/803 AM
10/26/2011

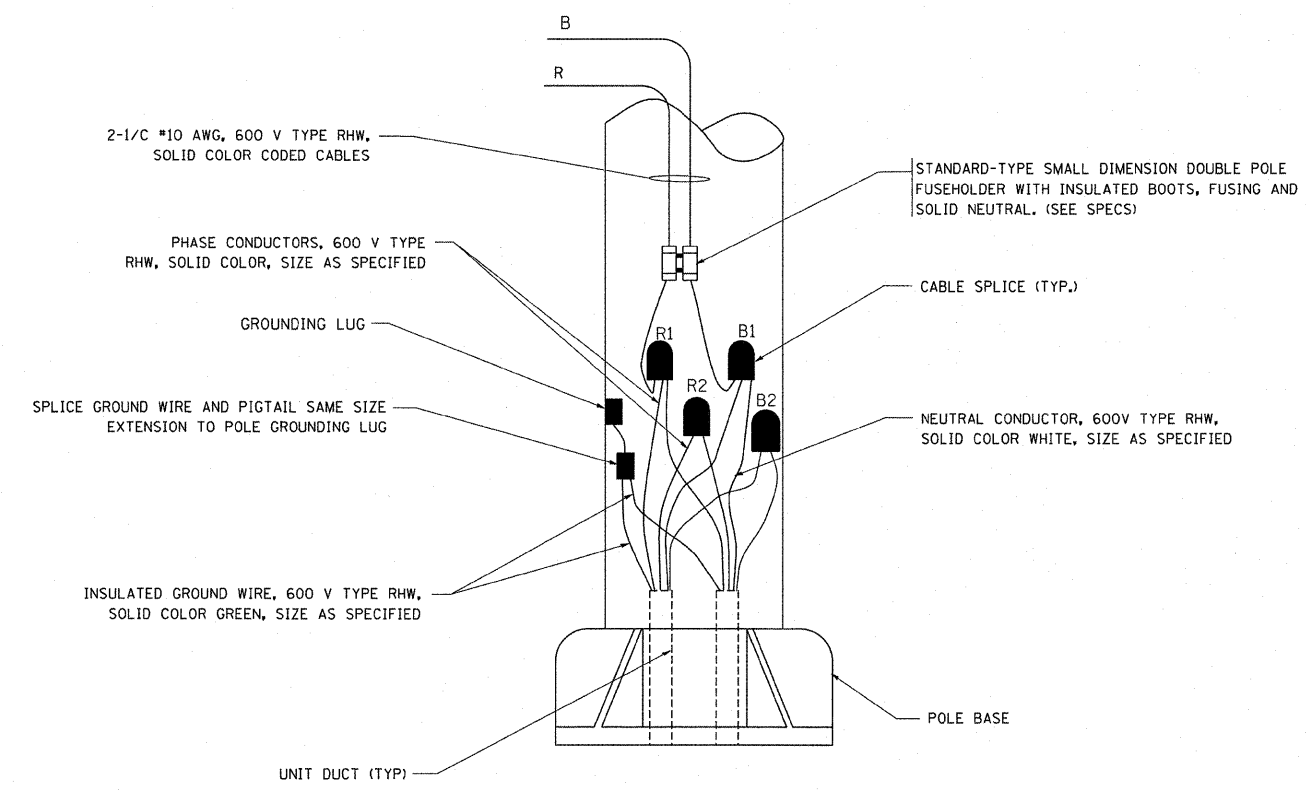
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129 R-2	KANE	243	155
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TYPICAL SPLICE DETAIL
N.T.S.



TYPICAL WIRING IN TRENCH DETAIL
N.T.S.



POLE WIRING DETAIL
N.T.S.

LT-11

ILLINOIS DEPARTMENT OF TRANSPORTATION

**ILLINOIS ROUTE 64
MISC. DETAILS, SHEET A
CABLE SPLICE, POLE WIRING,
AND TRENCH DETAIL**

SCALE: NONE
DATE: SEPT. 2010

DRAWN BY: M. J./D. L.
CHECKED BY: I. B.

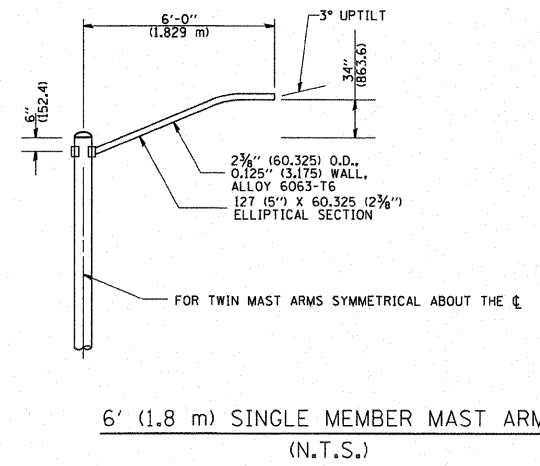
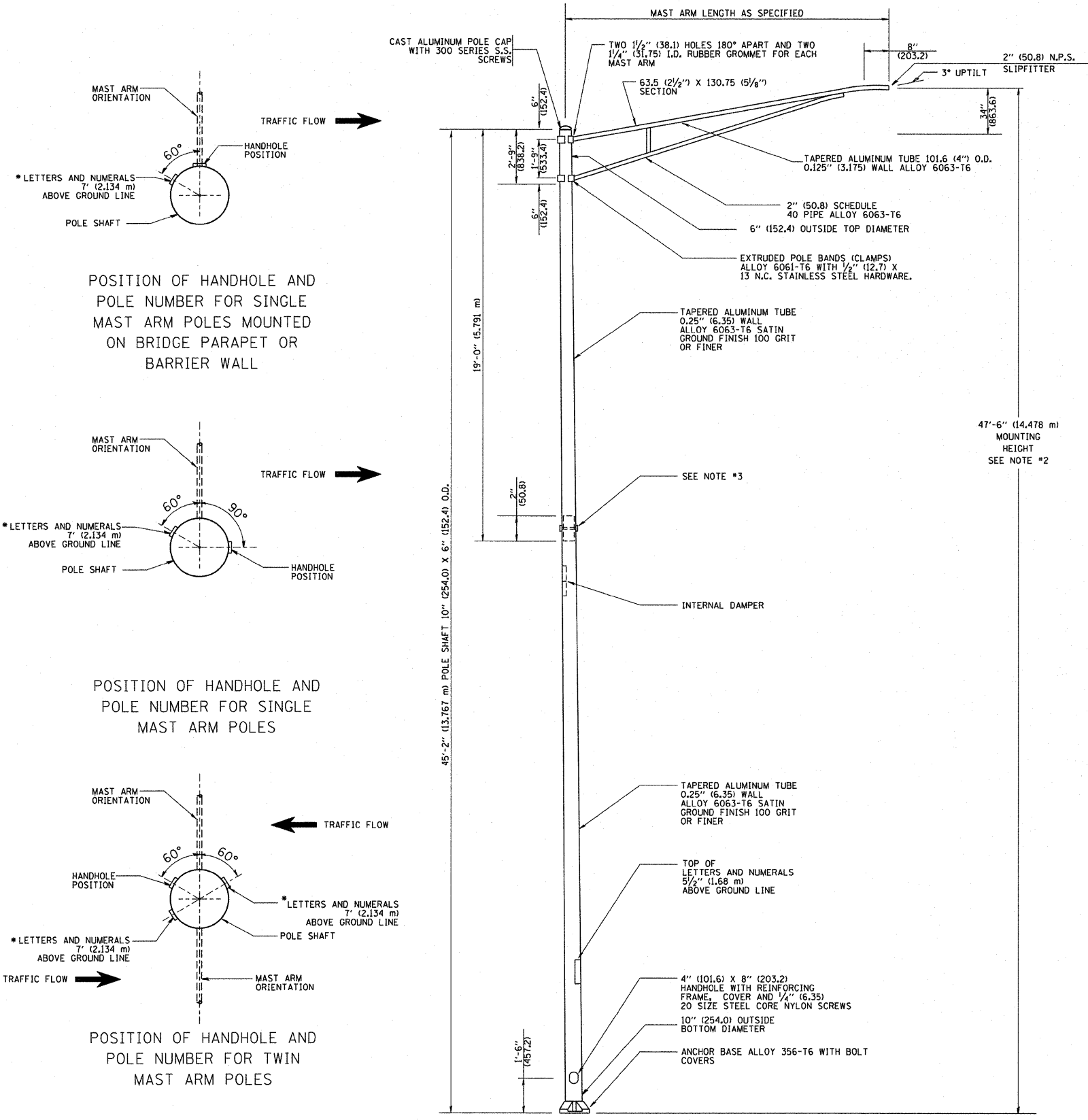
REVISIONS	
NAME	DATE

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311 South Wacker Drive, Suite 2400
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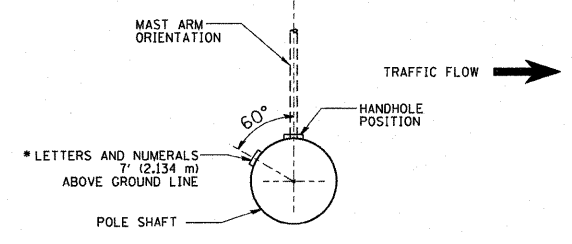
CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS-PLANNERS-SURVEYORS
211 WEST WACKER DRIVE
CHICAGO, ILLINOIS 60606
1-312-372-2023 FAX: 1-312-372-5274

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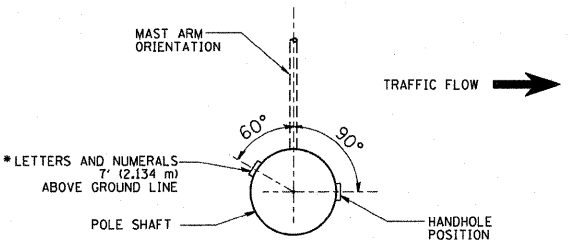
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	156
STA. TO STA.		ILLINOIS FED. AID PROJECT		



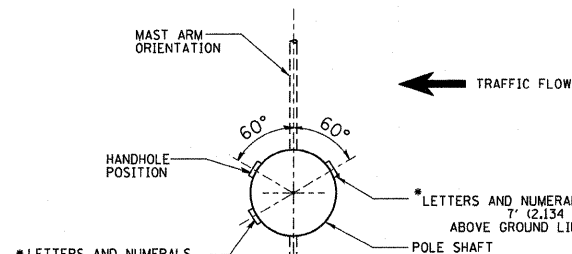
- NOTES:
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
 3. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
 4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
 5. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
 6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
 7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
 8. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



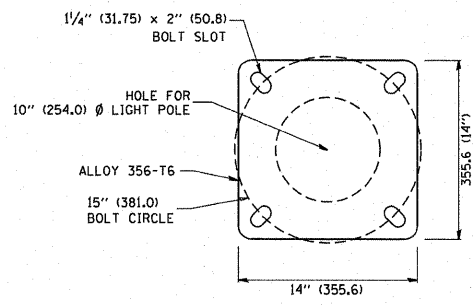
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL



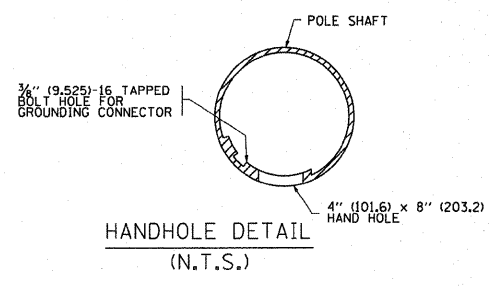
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES



LIGHT POLE BASE PLATE DETAIL
15 INCH (381.0) BOLT CIRCLE



HANDHOLE DETAIL
(N.T.S.)

REVISIONS	
NAME	DATE
R. TOMSONS	9-6-00
R. TOMSONS	8-12-03

ILLINOIS DEPARTMENT OF TRANSPORTATION
ALUMINUM LIGHT POLE
 47'-6" (14.478 m)
 MOUNTING HEIGHT

SCALE: NONE
 DATE: 1/10/2007

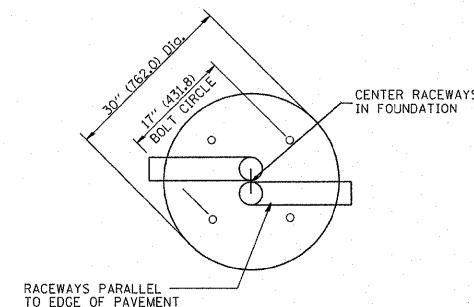
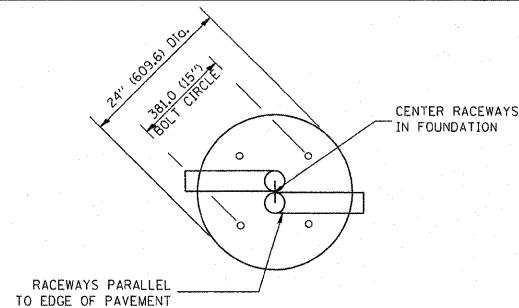
DRAWN BY
 CHECKED BY
 BE-400
 REVISION DATE: 09/02/03

PLOT DATE = 1/10/2007
 PLOT SCALE = 1/8" = 1'-0"
 USER NAME = jfrichid

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	157
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

LIGHT POLE FOUNDATION DEPTH TABLE
40 FT. (12.192M) TO 47.5 FT. (14.478M) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SO. FT.	13'-0" (3.96M)	15'-0" (4.57M)
MEDIUM CLAY Qu = 0.75 TON/SO. FT.	9'-6" (2.93M)	10'-9" (3.23M)
STIFF CLAY Qu = 1.50 TON/SO. FT.	7'-0" (2.13M)	8'-0" (2.44M)
LOOSE SAND φ = 34°	9'-0" (2.74M)	10'-0" (3.05M)
MEDIUM SAND φ = 37.5°	8'-3" (2.52M)	9'-0" (2.74M)
DENSE SAND φ = 40°	7'-9" (2.36M)	9'-0" (2.74M)

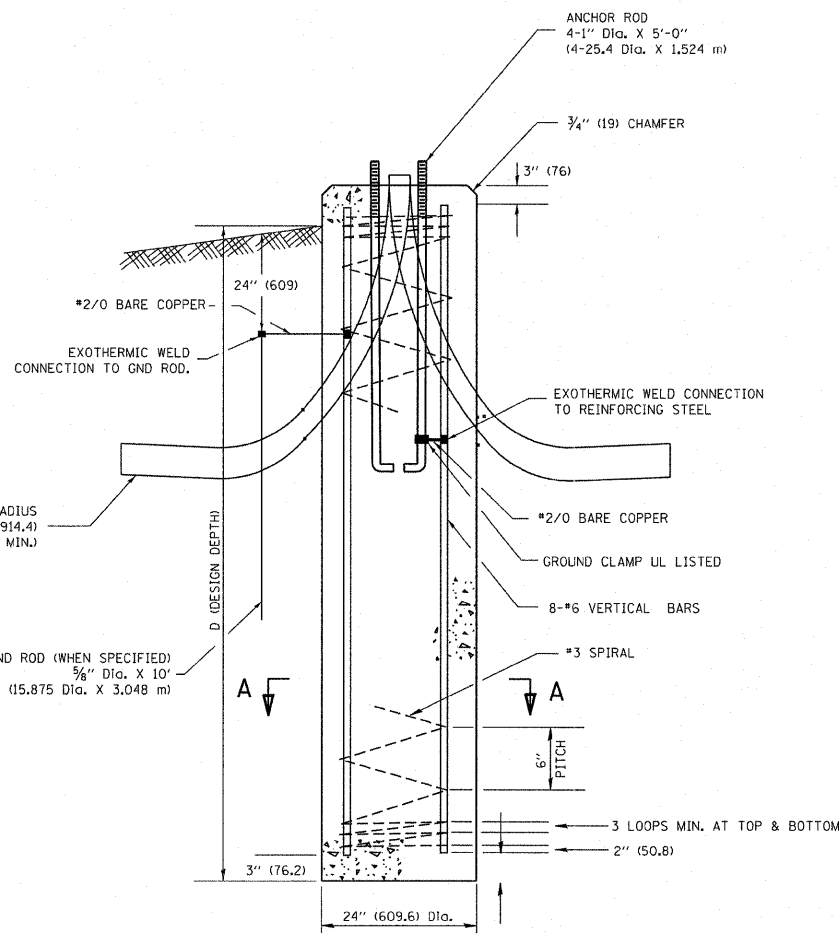


TOP VIEW

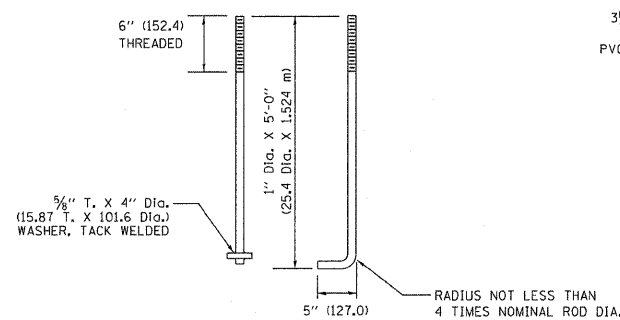
TOP VIEW

NOTES

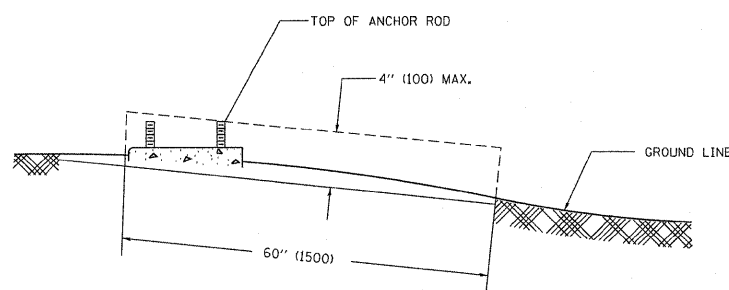
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5M) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20MM).
- THE CONCRETE SHALL BE CLASS S1. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UMG (MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 MM) WITH A MINIMUM OF 3 INCHES (75 MM) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9MM) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4MM) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8MM) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4MM) ABOVE THE TOP OF THE FOUNDATION.



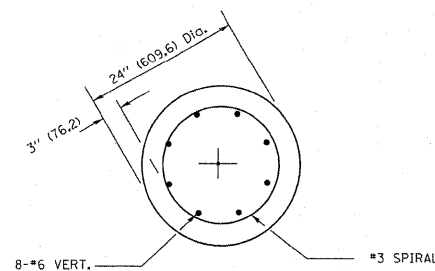
FOUNDATION DETAIL



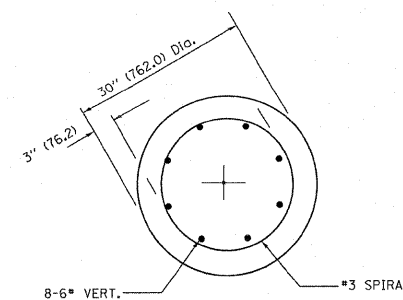
ANCHOR ROD DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A



SECTION A-A

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
LIGHT POLE FOUNDATION
40' (12.192M) TO 47 1/2' (14.478M) M.H.
15" (381) BOLT CIRCLE

SCALE: NONE
DATE: 1/9/2007

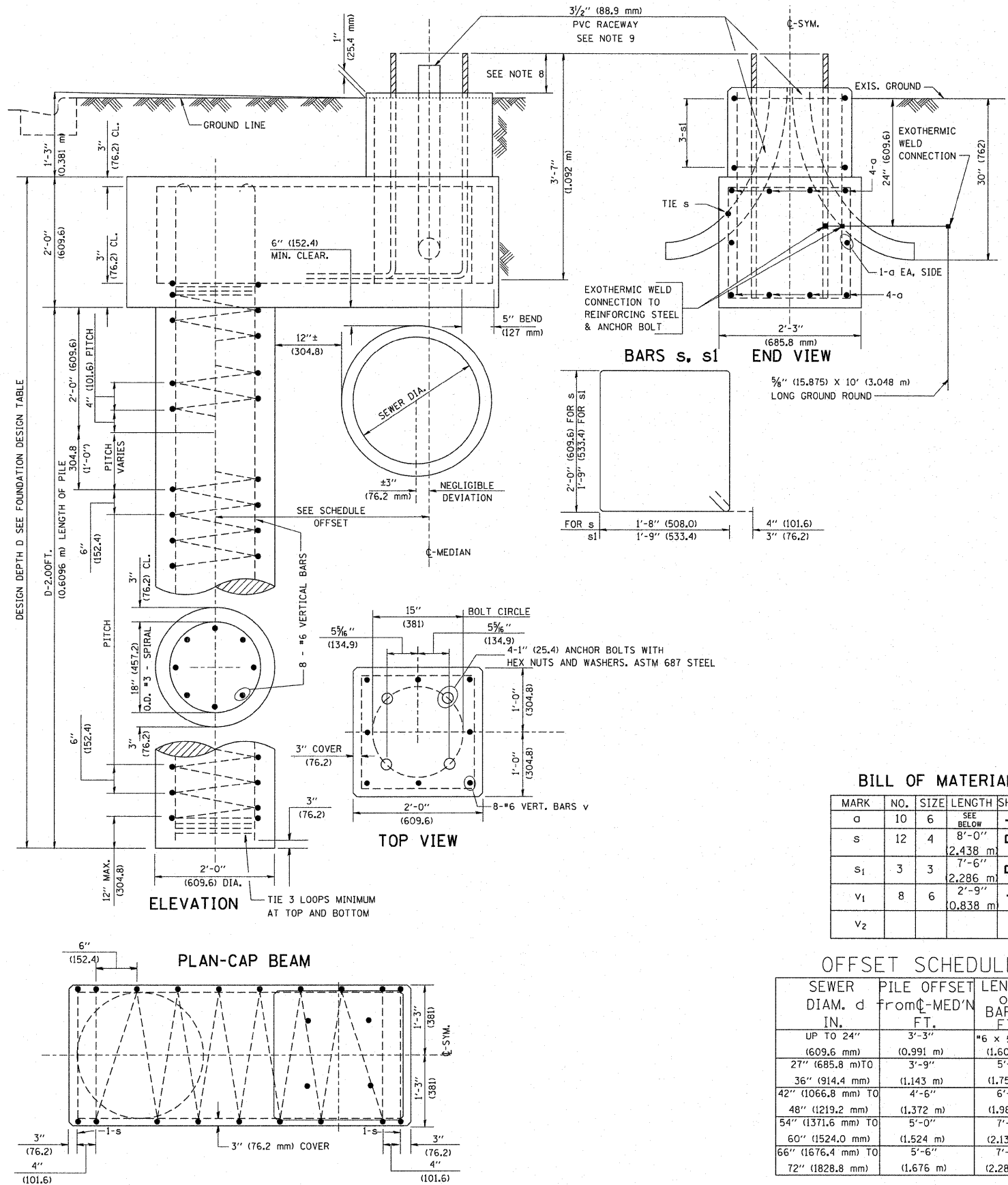
DRAWN BY
CHECKED BY
BE301
REVISION DATE: 01/01/07

FOUNDATION DESIGN TABLE

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	13'-0" (3,962 m)	15'-0" (4,572 m)	8-#6X12'-6" (3,810 m)	#3X122' (37,186 m)	8-#6X14'-3" (4,343 m)	#3X141' (42,977 m)
MEDIUM CLAY	9'-6" (2,896 m)	10'-9" (3,277 m)	8-#6X9'-0" (2,743 m)	#3X90' (27,432 m)	8-#6X10'-0" (3,048 m)	#3X100' (30,480 m)
STIFF CLAY	7'-0" (2,134 m)	8'-0" (2,438 m)	8-#6X6'-6" (1,981 m)	#3X66' (20,112 m)	8-#6X7'-6" (2,286 m)	#3X76' (23,165 m)
LOOSE SAND	9'-0" (2,743 m)	10'-0" (3,048 m)	8-#6X8'-6" (2,591 m)	#3X85' (25,908 m)	8-#6X9'-6" (2,896 m)	#3X94' (28,651 m)
MEDIUM SAND	8'-3" (2,515 m)	9'-0" (2,743 m)	8-#6X8'-0" (2,438 m)	#3X78' (23,774 m)	8-#6X8'-6" (2,591 m)	#3X85' (25,908 m)
DENSE SAND	7'-9" (2,362 m)	9'-0" (2,743 m)	8-#6X7'-6" (2,286 m)	#3X73' (22,250 m)	8-#6X8'-6" (2,591 m)	#3X85' (25,908 m)
ROCK OR SOLIDIFIED SLAG	5'-0" (1,524 m)	5'-0" (1,524 m)	NONE	NONE	NONE	NONE

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
- EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" (609.6 mm) OR 30" (762.0 mm) IN DIAMETER.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS. IF LIGHT POLE IS MOUNTED WITHOUT BREAKAWAY DEVICE, ANCHOR BOLTS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION WITH ENGINEER.
- RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERCTED.



BILL OF MATERIAL

MARK	NO.	SIZE	LENGTH	SHAPE
a	10	6	SEE BELOW	—
s	12	4	8'-0" (2,438 m)	□
s ₁	3	3	7'-6" (2,286 m)	□
v ₁	8	6	2'-9" (0,838 m)	—
v ₂				

OFFSET SCHEDULE

SEWER DIAM. d IN.	PILE OFFSET FROM C-MED'N FT.	LENGTH OF BAR a FT.
UP TO 24" (609.6 mm)	3'-3" (0,991 m)	#6 x 5'-3" (1,600 m)
27" (685.8 mm) TO	3'-9" (1,143 m)	5'-9"
36" (914.4 mm)	(1,143 m)	(1,753 m)
42" (1066.8 mm) TO	4'-6" (1,372 m)	6'-6"
48" (1219.2 mm)	(1,372 m)	(1,981 m)
54" (1371.6 mm) TO	5'-0" (1,524 m)	7'-0"
60" (1524.0 mm)	(1,524 m)	(2,134 m)
66" (1676.4 mm) TO	5'-6" (1,676 m)	7'-6"
72" (1828.8 mm)	(1,676 m)	(2,286 m)

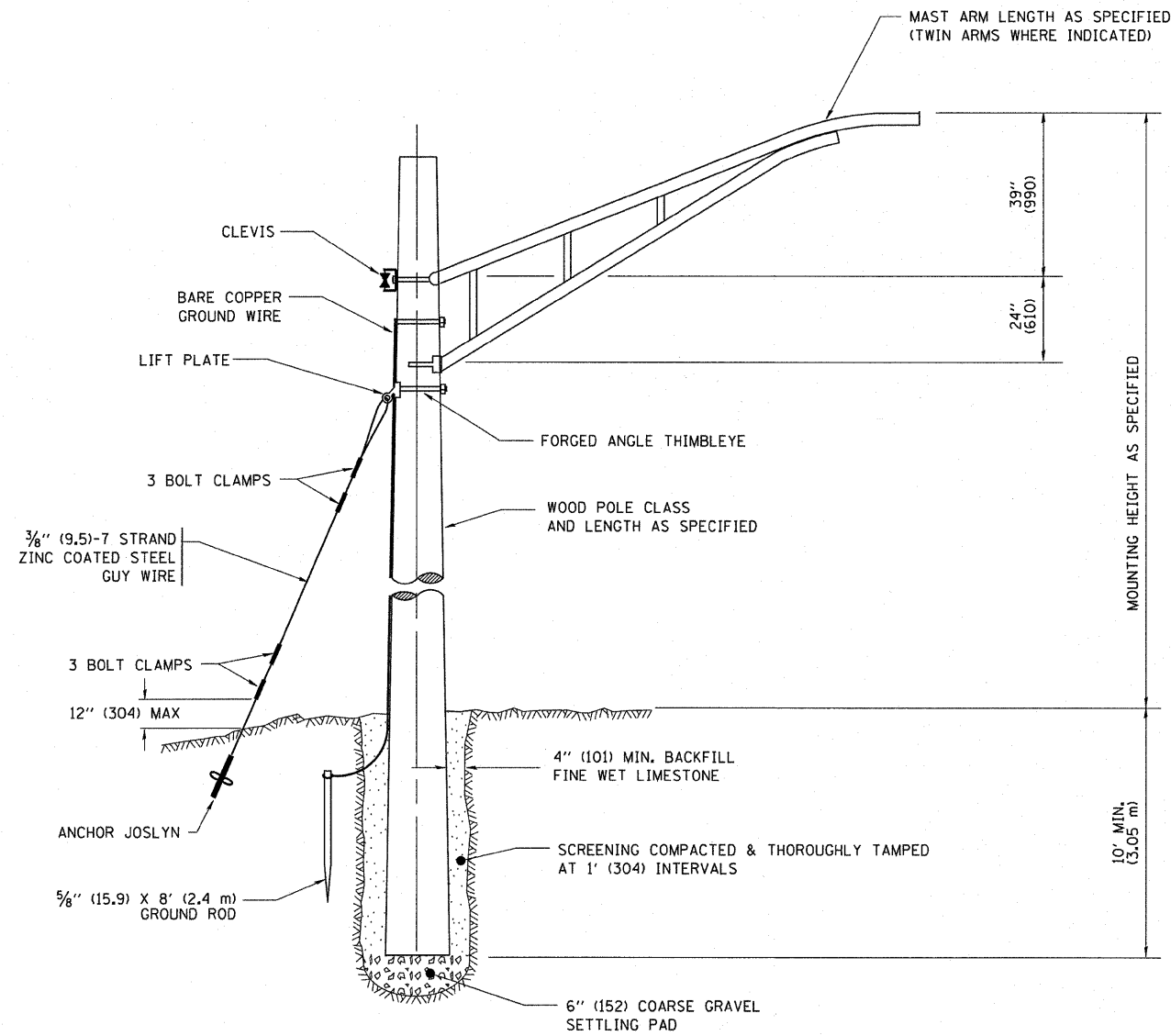
FILE NAME = K:\diststd22x34\be310.dgn	USER NAME = bauerdl	DESIGNED -	REVISED - 06-16-08 R. TOMSONS
PLOT SCALE = 50,000 ' / IN.	PLOT DATE = 6/16/2008	DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

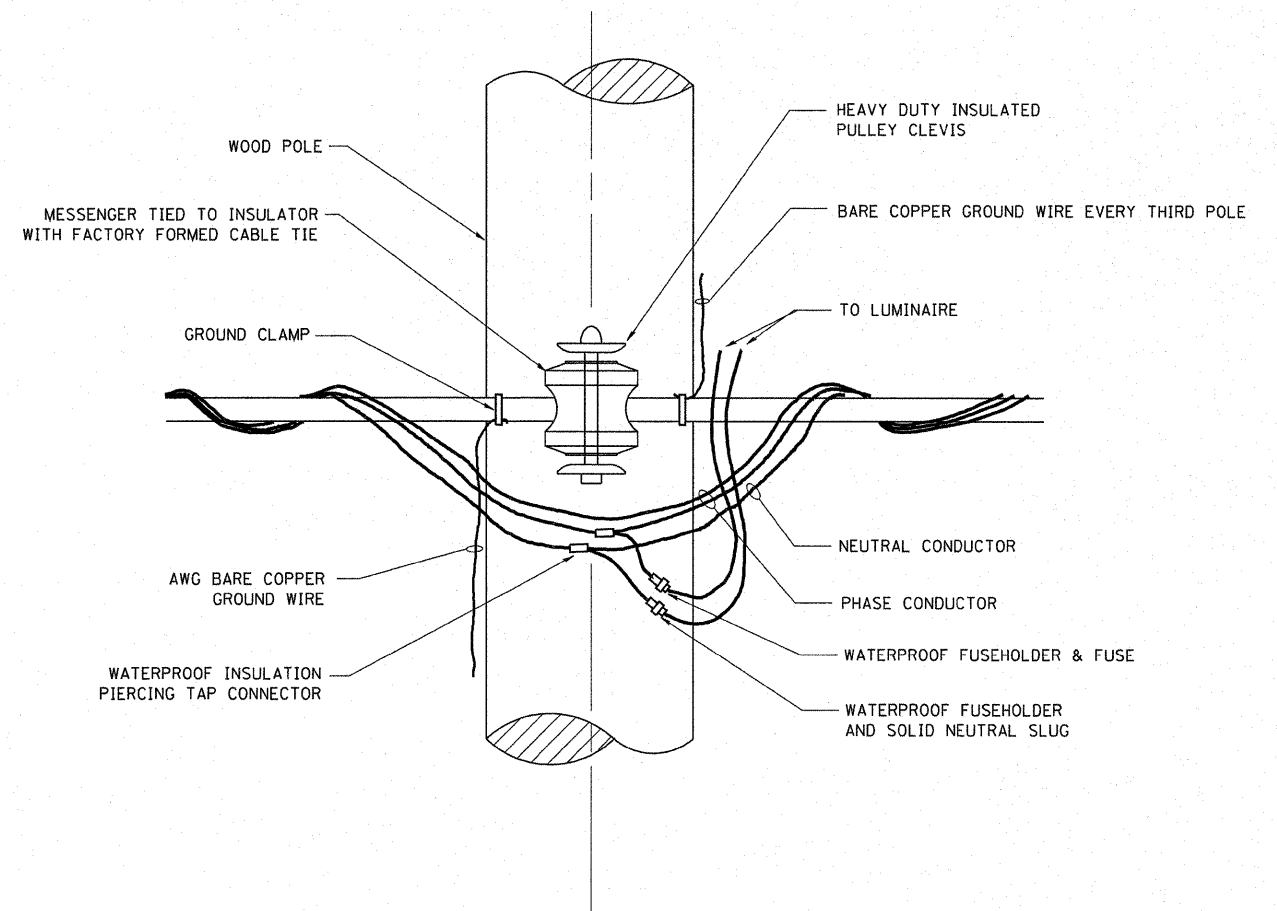
LIGHT POLE FOUNDATION OFFSET
40' (12,192 m) TO 47' 12" (14,478 m) M.H.
15" (381 mm) BOLT CIRCLE

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

F.A.P. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-Z	KANE	243	158
	BE-310			CONTRACT NO. 62195
ILLINOIS FED. AID PROJECT				



TEMPORARY LIGHT POLE DETAIL

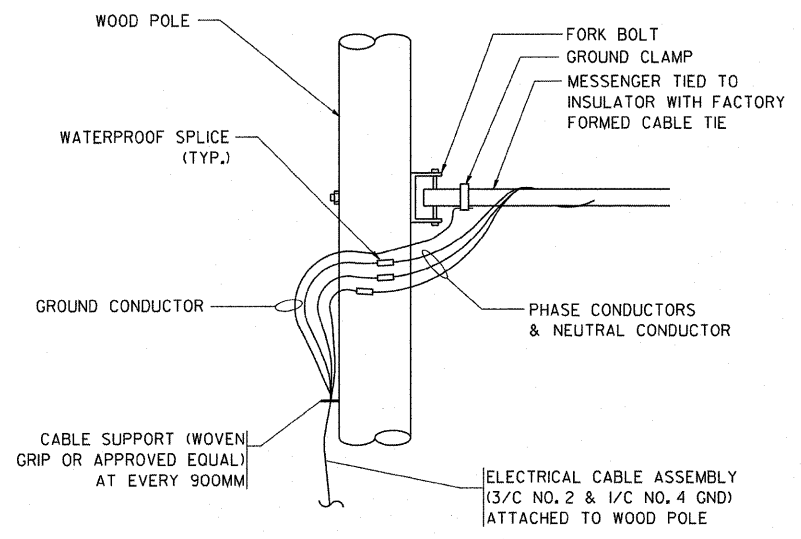


TEMPORARY LIGHT POLE ATTACHMENT DETAIL

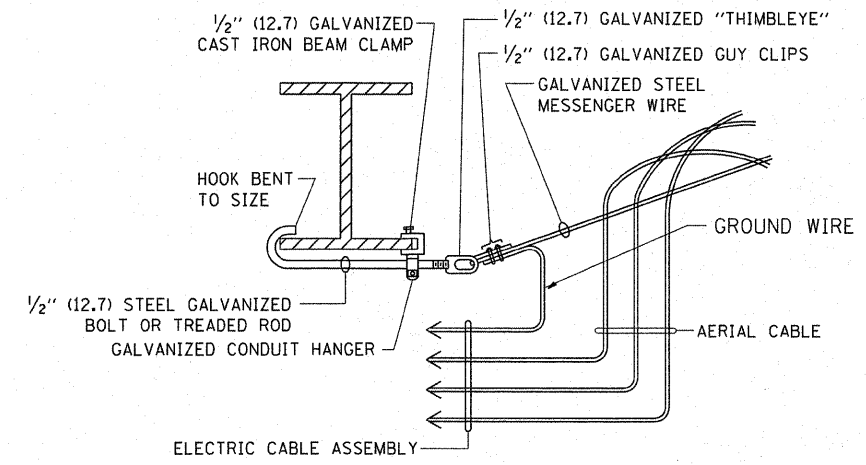
NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED

FILE NAME = W:\diststd\22x34\be800.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY LIGHT POLE DETAILS			F.A.P. RTE. 307	SECTION 129-R-2	COUNTY KANE	TOTAL SHEETS 243	SHEET NO. 159
	PLOT SCALE = 50,000' / IN.	CHECKED -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			
	PLOT DATE = 1/4/2008	DATE -	REVISED -		CONTRACT NO. 62195							



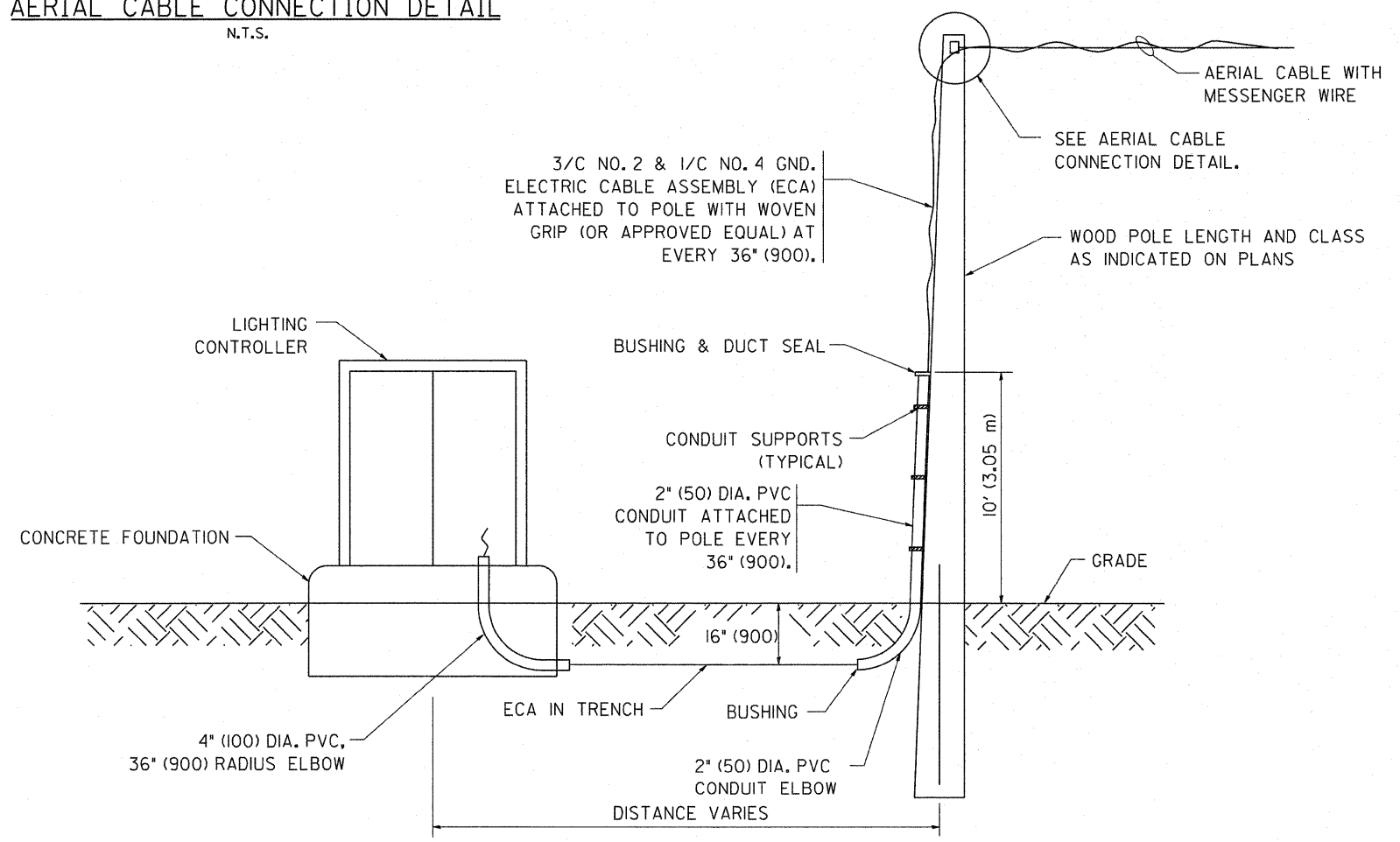
AERIAL CABLE CONNECTION DETAIL
N.T.S.



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 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.

LT-16

FILE NAME = W:\diststd\22x34\be081.dgn	USER NAME = geglancobt	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY AERIAL CABLE INSTALLATION			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 50,000' / IN.	DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	307	129-R-2	KANE	243	160
	PLOT DATE = 1/4/2008	CHECKED -	REVISED -						BE-801				
		DATE -	REVISED -						CONTRACT NO. 62195				

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	160
CONTRACT NO. 62195				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

BENCH MARK: C.P. #63

Chiseled "X" on N.W. Flange Bolt of F.H. at N.E. Corner of Ill. Rte. 64 & N. 12th Ave., Sta. 86+79, 35 Ft. Lt., El. 740.61

SHEET 51 OF 53

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	161
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS		
		FED. AID PROJECT		

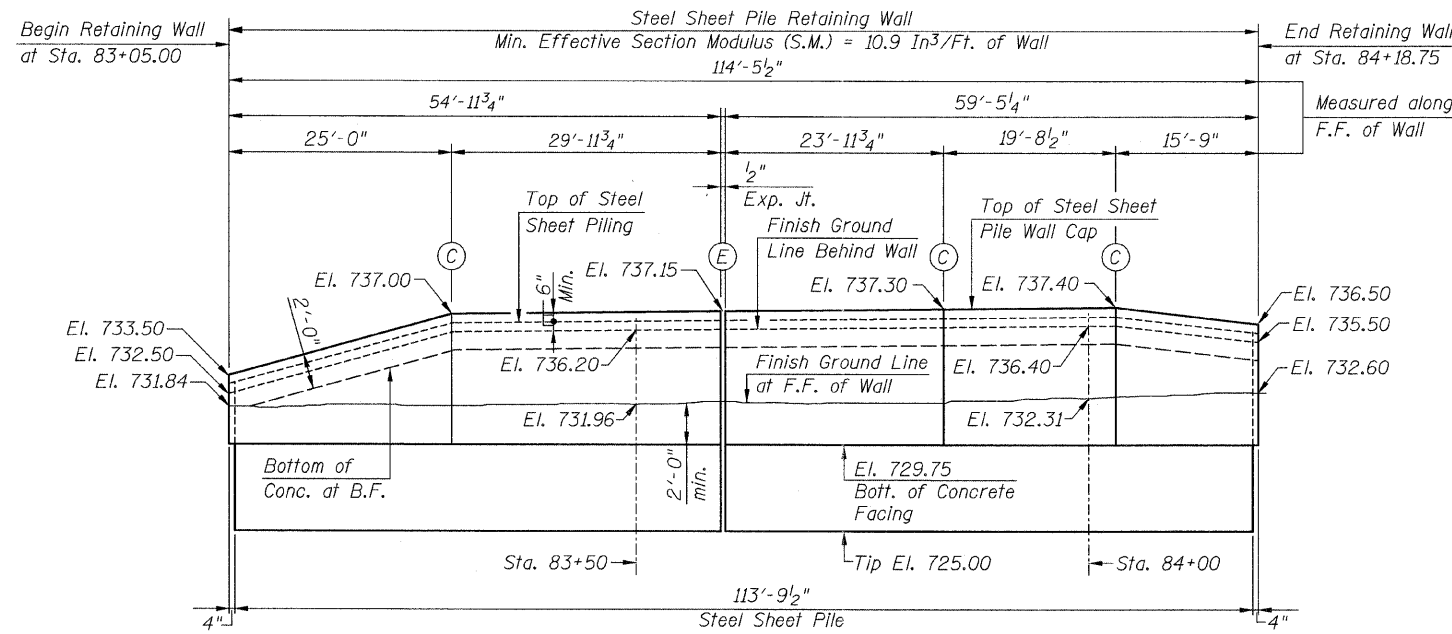
CONTRACT NO. 62195

INDEX OF SHEETS

1. PLAN & ELEVATION
2. REINFORCEMENT DETAILS
3. SOIL BORING LOGS

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Structures	Cu. Yd.	37.0
Reinforcement Bars, Epoxy Coated	Pound	1,890
Structure Excavation	Cu. Yd.	72
Stud Shear Connectors	Each	597
Concrete Removal	Cu. Yd.	31.0
Permanent Steel Sheet Piling	Sq. Yd.	1,290
Form Liner Textured Surface	Sq. Ft.	630



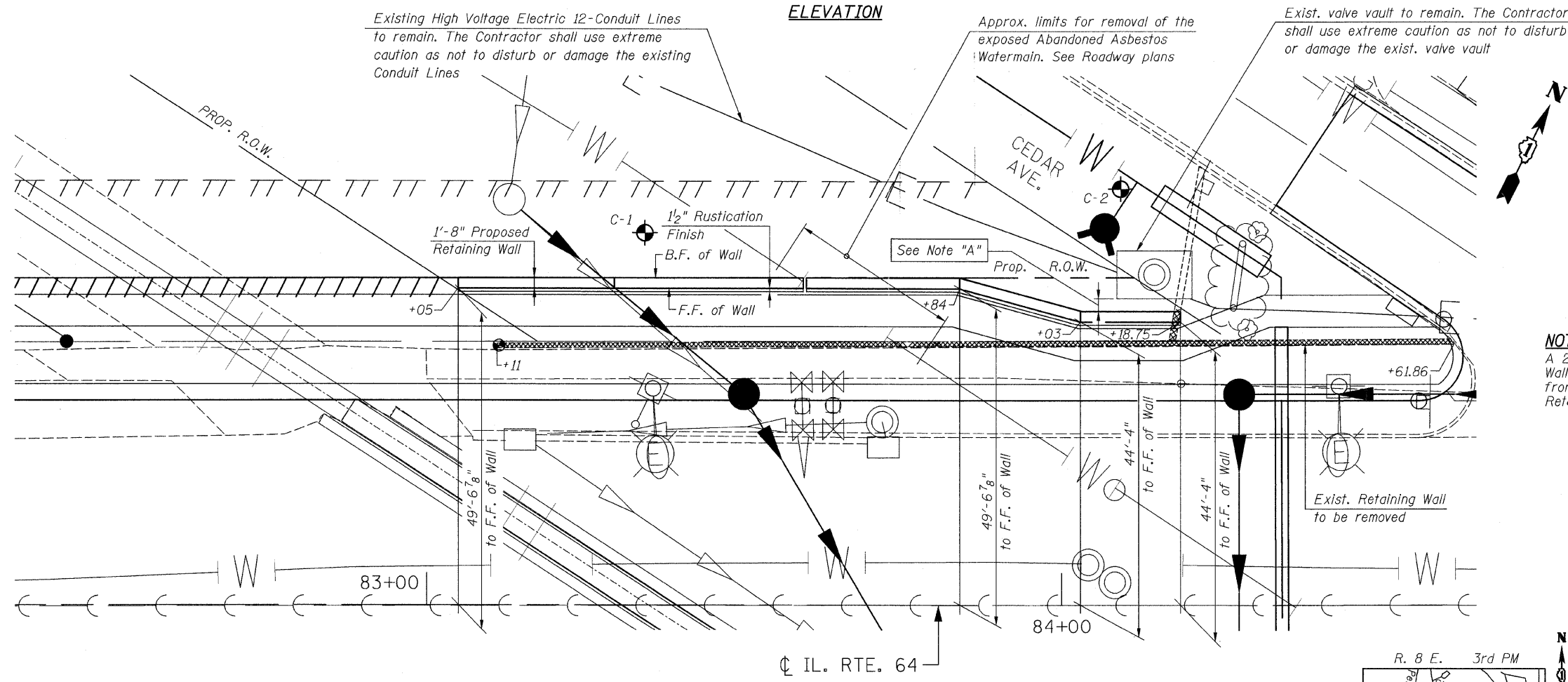
LEGEND:
 F.F. = Front Face
 B.F. = Back Face
 (C) = Construction Jt.
 (E) = Expansion Jt. (1/2")

ELEVATION

Existing High Voltage Electric 12-Conduit Lines to remain. The Contractor shall use extreme caution as not to disturb or damage the existing Conduit Lines

Approx. limits for removal of the exposed Abandoned Asbestos Watermain. See Roadway plans

Exist. valve vault to remain. The Contractor shall use extreme caution as not to disturb or damage the exist. valve vault



NOTE:
 See Sht. S2 for Construction Jt., Expansion Jt. & Rustication Finish details.

Reinforcement Bars shall conform to the requirements of A.S.T.M. A 706 Gr. 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

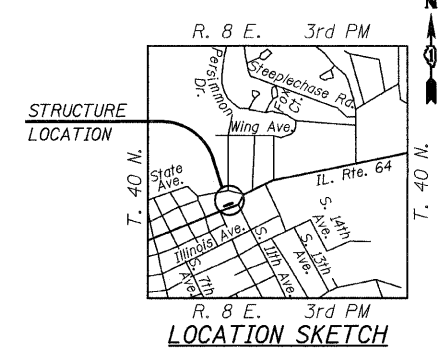
Rustication Finish is paid for as Form Liner Textured Surface

NOTE "A"
 A 2'-0" min. cl. from exist. valve vault to B.F. of proposed Retaining Wall must be maintained. If the exist. valve vault is less than 2'-0" from B.F. of the Retaining Wall, the Contractor may adjust the Retaining Wall as necessary, to ensure a 2'-0" min. clearance.

PLAN OF WALL
SHEET PILE RETAINING WALL (RW-2)

DESIGN SPECIFICATIONS
 AASHTO Standard Specifications for Highway Bridges
 17th Edition-2002

DESIGN STRESSES
 $f_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 38,500$ psi (Structural Steel
 AASHTO M202, Gr. 50)



Bhadresh N. Shah
 BHADRESH N. SHAH 03/22/2011
 LICENSED STRUCTURAL ENGINEER
 STATE OF ILLINOIS LIC. No. 081-004476
 EXPIRES: 11-30-12

ILLINOIS DEPARTMENT OF TRANSPORTATION

PLAN & ELEVATION
SHEET PILE RETAINING WALL (RW-2)
 F.A.P. RTE. 307 (IL. RTE. 64)
 SECTION 129-R-2
 STA. 83+05.00 TO STA. 84+18.75
 KANE COUNTY
 STRUCTURE NO. 045-W002

SCALE: 1"=10'
 DATE: AUGUST 10, 2011
 DRAWN BY: F.M.
 CHECKED BY: B.N.S.

CHRISTIAN-ROGE & ASSOC., INC.
 CHICAGO ILLINOIS

REVISIONS	
NAME	DATE

FILE NAME: r-ve61gpn2.dgn
 PLOT DATE: 9/12/2011
 PLOT SCALE: 1/8" = 1'-0"

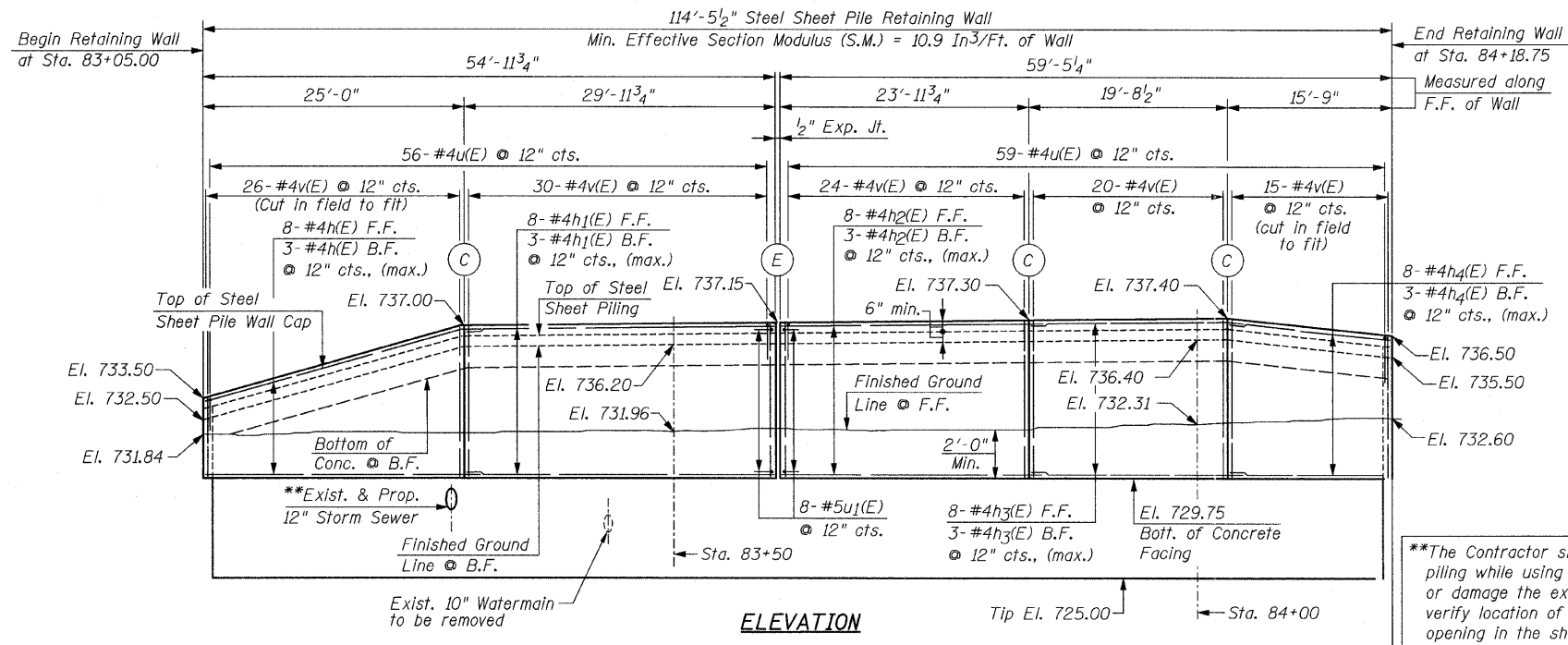
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	162
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS		
		FED. AID PROJECT		

CONTRACT NO. 62195

BILL OF MATERIAL

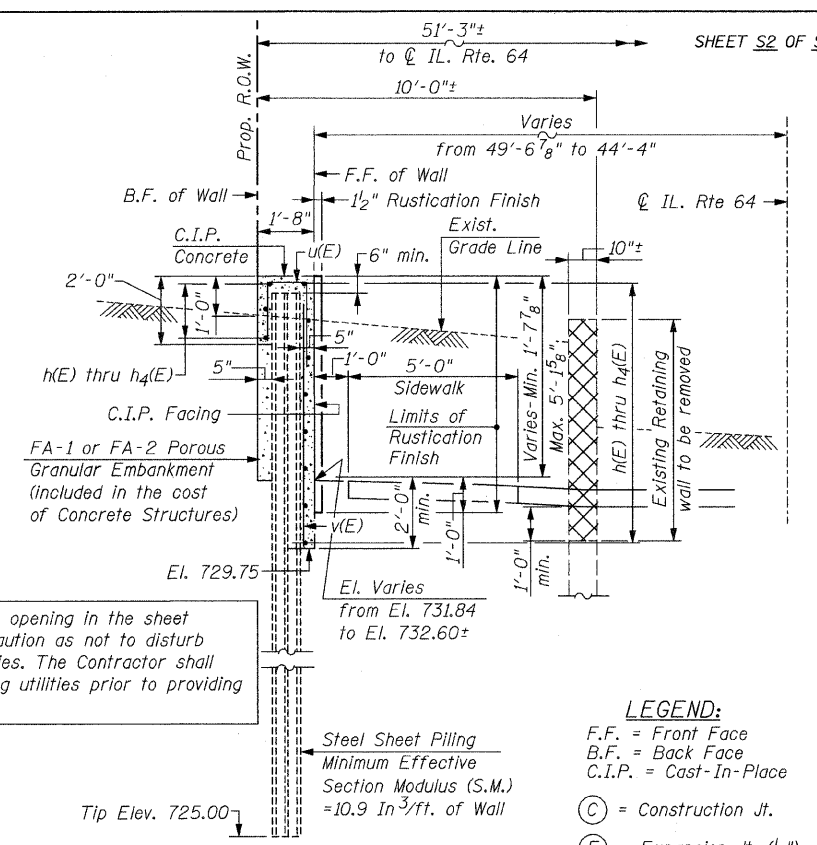
Bar	No.	Size	Length	Shape
h(E)	11	#4	27'-0"	
h ₁ (E)	11	#4	29'-9"	
h ₂ (E)	11	#4	26'-0"	
h ₃ (E)	11	#4	21'-9"	
h ₄ (E)	11	#4	15'-6"	
u(E)	115	#4	5'-3"	□
u ₁ (E)	16	#5	4'-8"	□
v(E)	115	#4	6'-10"	

Concrete Structures	Cu. Yd.	37.0
Reinforcement Bars, Epoxy Coated	Pound	1,890
Structure Excavation	Cu. Yd.	72
Stud Shear Connectors	Each	597
Concrete Removal	Cu. Yd.	31.0
Permanent Steel Sheet Piling	Sq. Yd.	1,290
Form Liner Textured Surface	Sq. Ft.	630



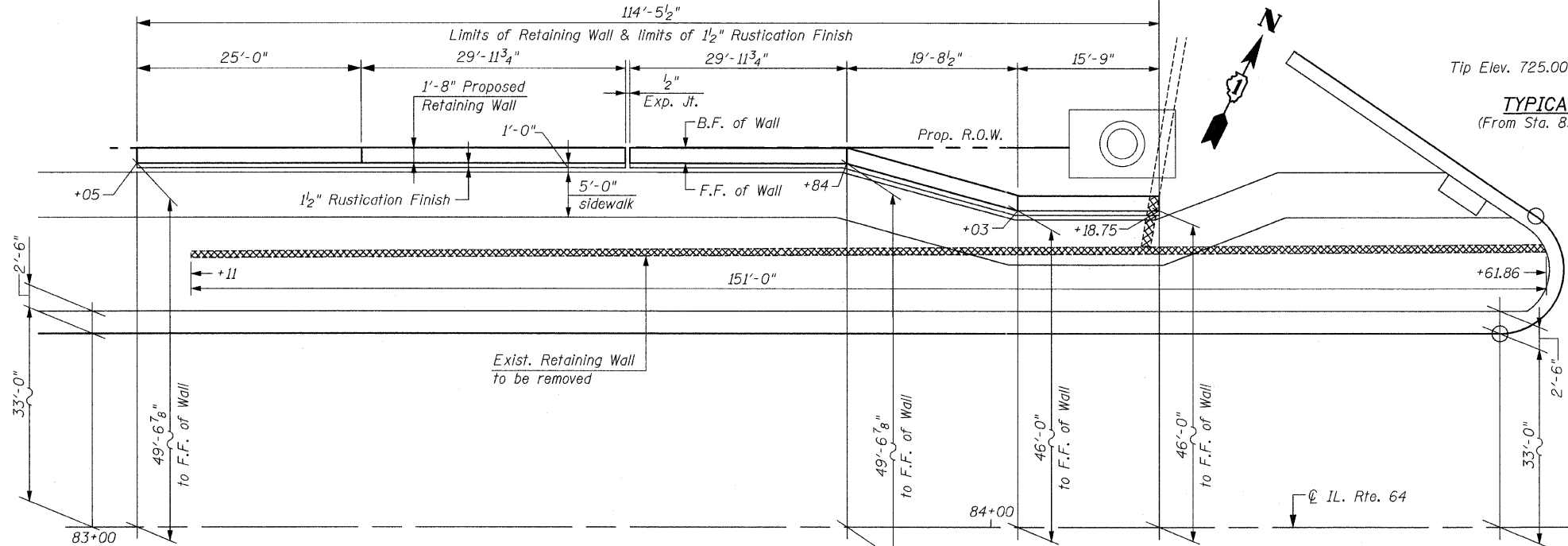
ELEVATION

**The Contractor shall provide opening in the sheet piling while using extreme caution as not to disturb or damage the existing utilities. The Contractor shall verify location of the existing utilities prior to providing opening in the sheet piling.



TYPICAL WALL SECTION
(From Sta. 83+05.00 To Sta. 84+18.75)
(Looking East)

- LEGEND:**
- F.F. = Front Face
 - B.F. = Back Face
 - C.I.P. = Cast-In-Place
 - (C) = Construction Jt.
 - (E) = Expansion Jt. (1/2")

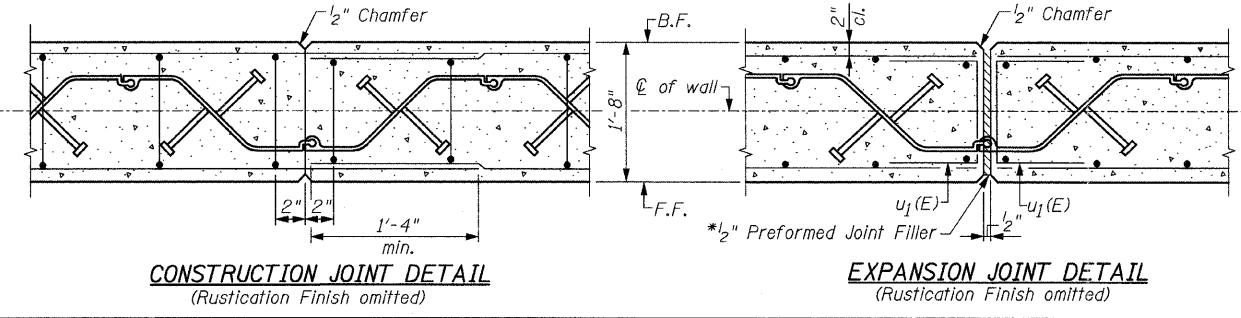


PLAN OF WALL

SHEET PILE RETAINING WALL (RW-2)

NOTE: The Contractor is responsible for coordinating utility relocation and adjustment before driving Sheet Pile Retaining Wall

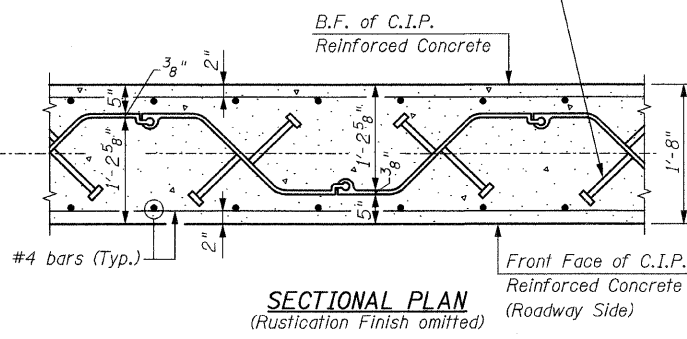
*Cost included with Concrete Structures



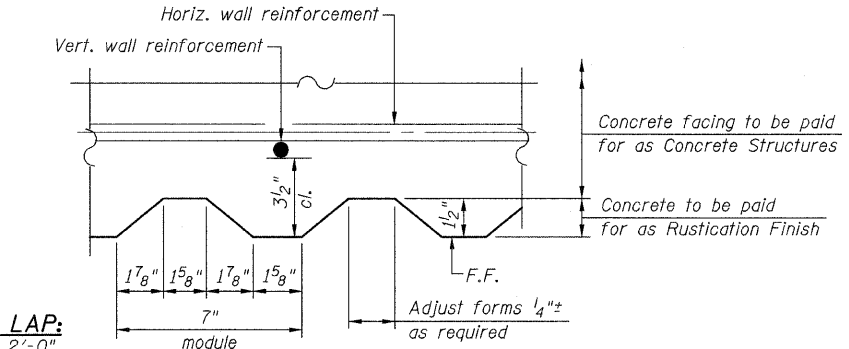
CONSTRUCTION JOINT DETAIL
(Rustication Finish omitted)

EXPANSION JOINT DETAIL
(Rustication Finish omitted)

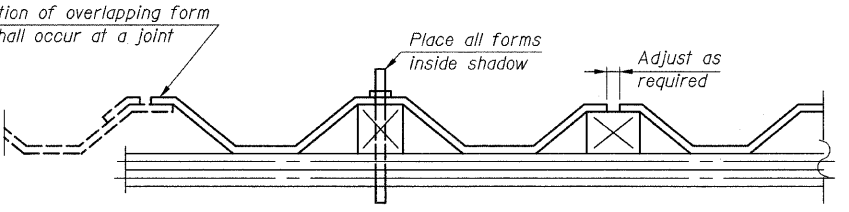
3/4" x 5" granular or solid flux filled headed studs conforming to article 706.32 of the Standard Specifications. Automatically end weld at 1'-0" vertical centers. Uppermost stud shall be placed at a min. of 6" from top of sheet pile



SECTIONAL PLAN
(Rustication Finish omitted)



SECTION THRU WALL SHOWING RUSTICATION FINISH



SUGGESTED FORMWORK DETAIL


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
REINFORCEMENT DETAILS
SHEET PILE RETAINING WALL (RW-2)
 F.A.P. RTE. 307 (IL. RTE. 64)
 SECTION 129-R-2
 STA. 83+05.00 TO STA. 84+18.75
 KANE COUNTY
 STRUCTURE NO. 045-W002
 SCALE: 1/8"=1'-0"
 DATE: AUGUST 10, 2011
 DRAWN BY: F.M.
 CHECKED BY: B.N.S.
CHRISTIAN-ROGE & ASSOC., INC.
 CHICAGO ILLINOIS

FILE NAME = r-1064-rw2.dgn
 PLOT DATE = 9/12/2011
 PLOT SCALE = 6:000 1/2 IN.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	163
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS		
		FED. AID PROJECT		

CONTRACT NO. 62195



Wang Engineering, Inc.
Consulting Geotechnical and Environmental Engineers
wangeng3@wangeng.com
100 Fairbank Street
Addison, IL 60101
Telephone: 630 458-0700
Fax: 630 458-0900

BORING LOG C-1

WEI Job No.: 950-01-01


Datum: NGVD
Elevation: 736.37 ft
North: 6520.20 ft
East: 12909.62 ft
Station: 83+34.4
Offset: 56.3 LT

Page 1 of 1

Client: Christian Roge and Associates

Project: FAP 307 (US Rte. 64), IDOT D-91-184-01

Location: 7th Street to Dunham Rd., Kane County, IL.



Wang Engineering, Inc.
Consulting Geotechnical and Environmental Engineers
wangeng3@wangeng.com
100 Fairbank Street
Addison, IL 60101
Telephone: 630 458-0700
Fax: 630 458-0900

BORING LOG C-2

WEI Job No.: 950-01-01

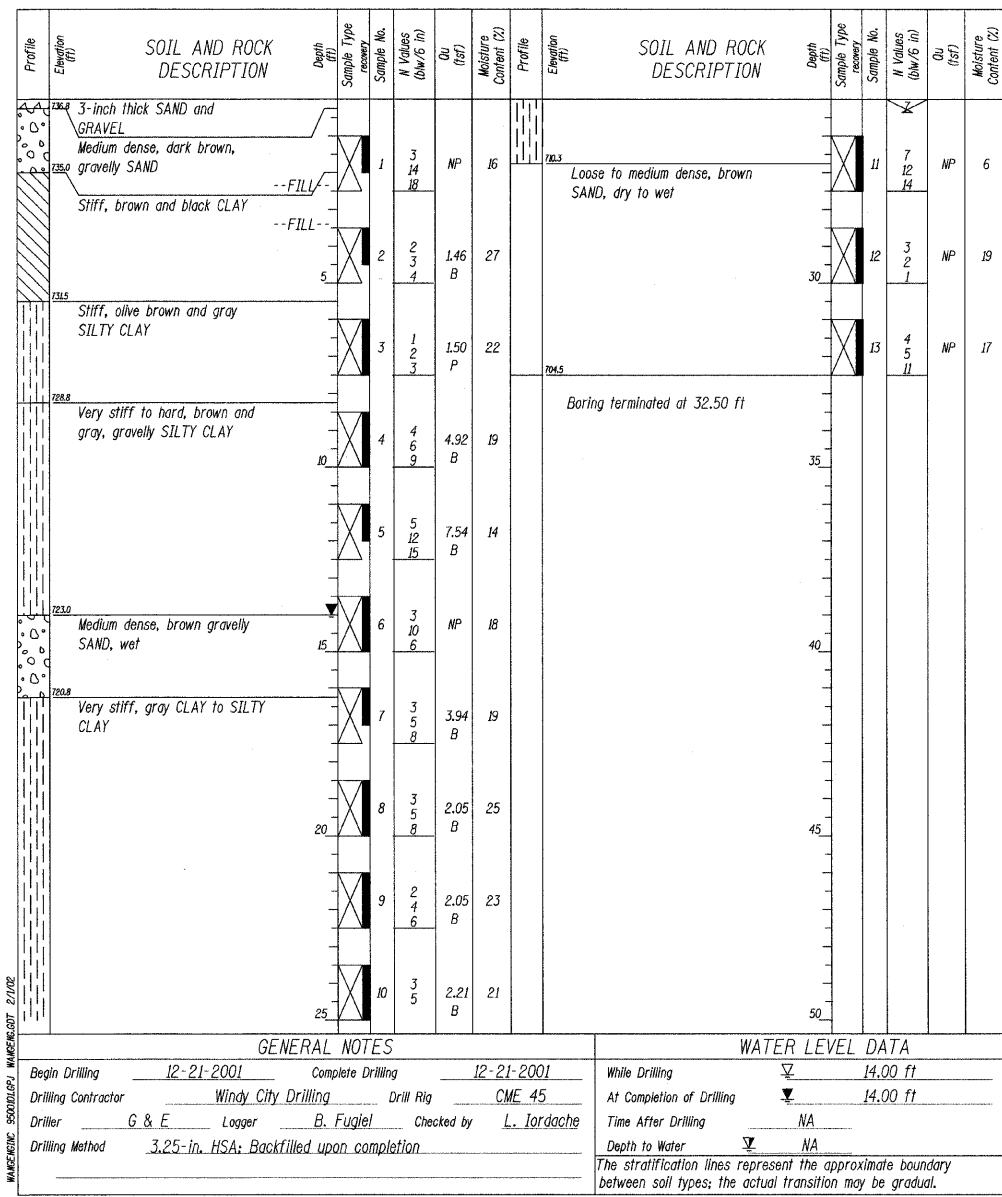
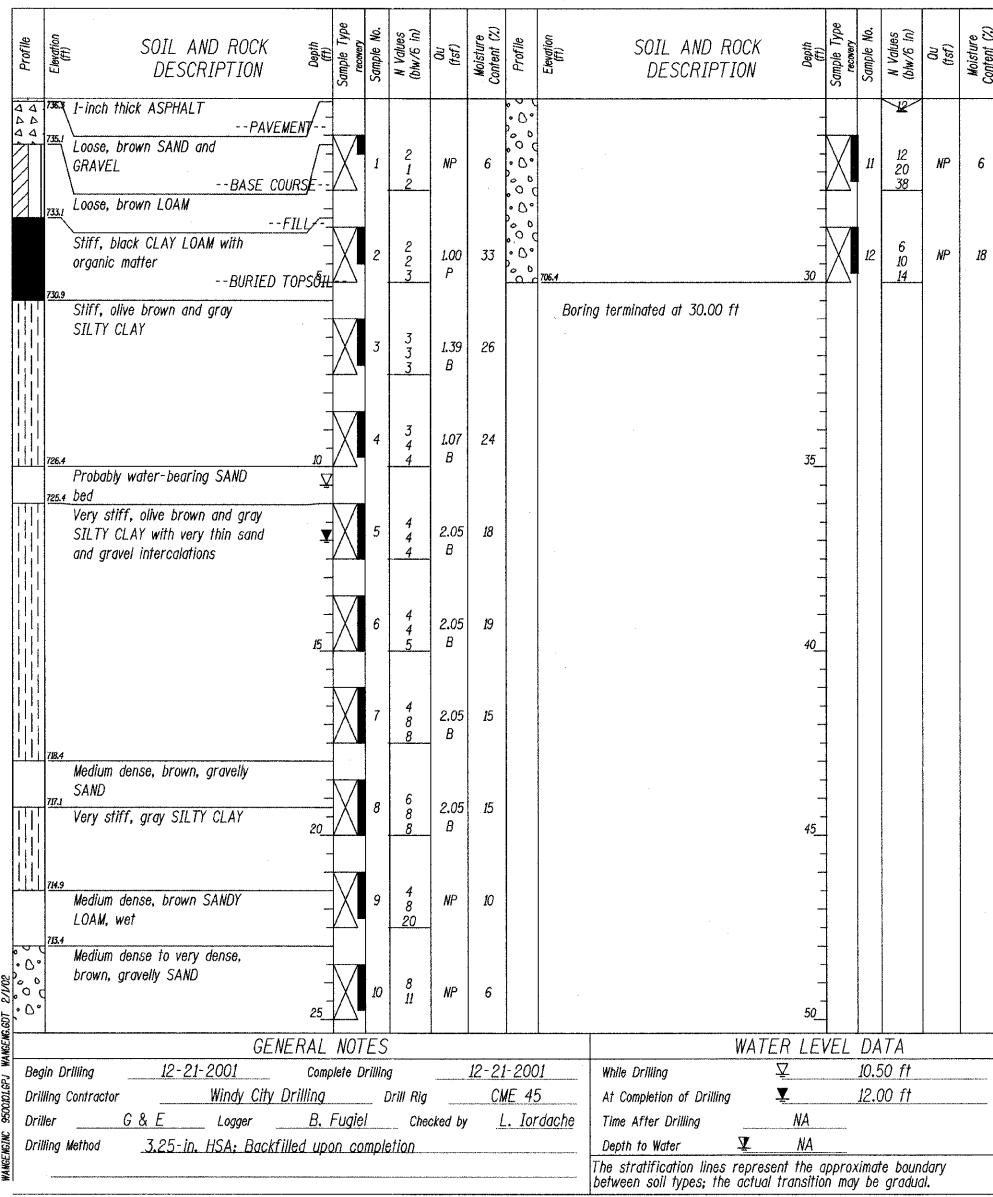
Datum: NGVD
Elevation: 737.03 ft
North: 6561.00 ft
East: 12973.06 ft
Station: 84+09.3
Offset: 65.2 LT

Page 1 of 1

Client: Christian Roge and Associates

Project: FAP 307 (US Rte. 64), IDOT D-91-184-01

Location: 7th Street to Dunham Rd., Kane County, IL.



FILE NAME: r1e64b1og2.dgn
 PLOT DATE: 8/12/2011
 PLOT SCALE: 20/800' / 1"

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
SHEET PILE RETAINING WALL (RW-2)
F.A.P. RTE. 307 (IL. RTE. 64)
SECTION 129-R-2
STA. 83+05.00 TO STA. 84+18.75
KANE COUNTY
STRUCTURE NO. 045-W002

SCALE: NONE DRAWN BY: F.M.
 DATE: AUGUST 10, 2011 CHECKED BY: B.N.S.

CHRISTIAN-ROGE & ASSOC., INC.
 CHICAGO ILLINOIS

BENCH MARK: C.P. #63
 Chisled "X" on N.W. Flange Bolt of F.H. @ N.E. Corner of Ill. Rte. 64 &
 N. 12th Ave., Sta. 86+79, 35 Ft. Lt., El. 740.61

SHEET 51 OF 55

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	164
STA. 106+14 TO STA. 108+40		ILLINOIS		
FED. ROAD DIST. NO. 1		FED. AID PROJECT		

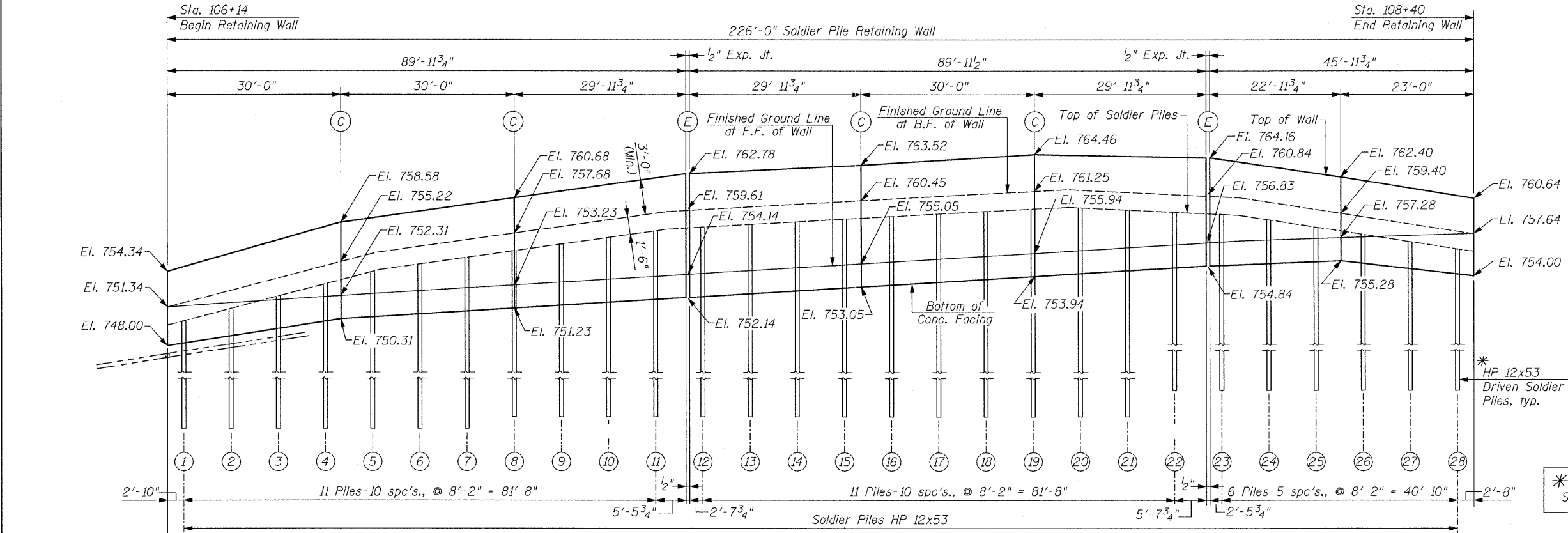
CONTRACT NO. 62195

INDEX OF SHEETS

1. PLAN & ELEVATION
2. REINFORCEMENT DETAILS
3. SECTIONS & DETAILS OF SOLDIER PILES
4. SOIL BORING LOGS
5. SOIL BORING LOGS

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Structures	Cu. Yd.	84.7
Reinforcement Bars, Epoxy Coated	Pound	16,920
Structure Excavation	Cu. Yd.	151
Geocomposite Wall Drain	Sq. Yd.	104
Pipe Underdrains for Structures 4"	Foot	246.0
Stud Shear Connectors	Each	740
Furnishing Soldier Piles (HP Section)	Foot	563
Driving Soldier Piles	Foot	563
Untreated Timber Lagging	Sq. Ft.	929
Protective Coat	Sq. Yd.	109.0
Form Liner Textured Surface	Sq. Ft.	1,720



ELEVATION

25'-4" Pipe Drain (PVC) to exist. MH Sta. 105+92, 37' Lt., Inv. El. 746.00 (See Roadway Plans)
 4" Perforated Drain Pipe (For Details See Sht. S4)
 Pipe Underdrain for Structures 4"

* See Sht. S3 for pile tip elevations

LEGEND:

- F.F. = Front Face
- B.F. = Back Face
- (C) = Construction Jt.
- (E) = Expansion Jt. (1/2")
- (1) = Pile Numbers

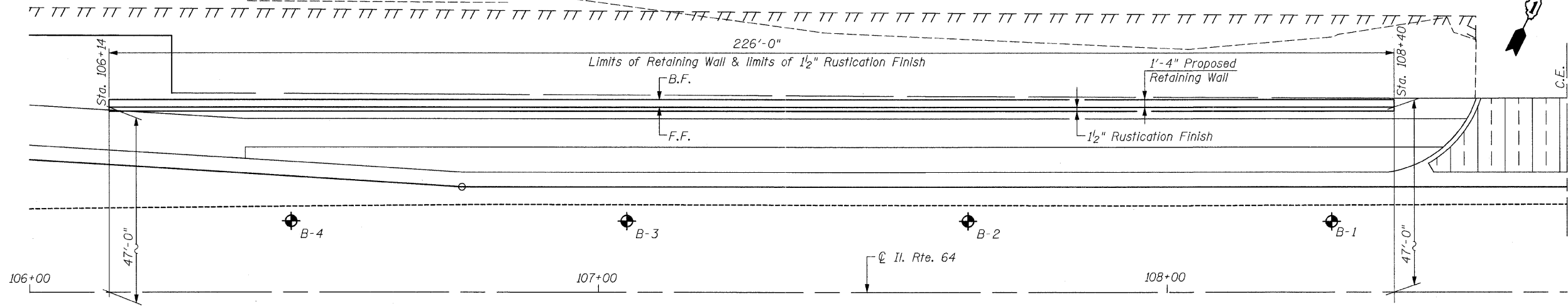
DESIGN SPECIFICATIONS
 AASHTO Standard Specifications for Highway Bridges 17th Edition - 2002

DESIGN STRESSES

f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)
 fy = 36,000 psi (Soldier Piles)



Bhadresh N. Shah
 BHADRESH N. SHAH 05/22/2011
 LICENSED STRUCTURAL ENGINEER
 STATE OF ILLINOIS LIC. NO. 081-004476
 EXPIRES: 11-30-12



PLAN OF WALL

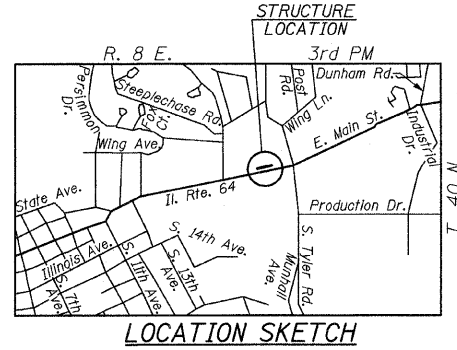
SOLDIER PILE RETAINING WALL (RW-3)

RECOMMENDED CONSTRUCTION SEQUENCE
 (For Driven Soldier Piles)

1. Position piles and drive to tip elevations as shown in plans.
2. Excavate in front of wall in stages, removing only the soil necessary to place each timber lagging snug against the excavated surface.
3. After the lagging has been placed to the depths shown in the plans, the Geocomposite Wall Drain shall be attached to and cover the untreated timber lagging.
4. The french drains shall be constructed by excavating a trench, lining it with fabric, placing a pipe and aggregate such that the Geocomposite Wall Drain is connected as shown on the plans.
5. Attach Shear Studs, set Reinforcement, form and pour C.I.P. Concrete Facing.

GENERAL NOTES:

The Contractor is responsible for the design and performance of the lagging using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1,000 psi.
 All exposed concrete edges shall be chamfered 3/4" unless otherwise noted.
 Protective coat shall be applied to exposed surfaces of the upper traffic barrier and the wall facing above the ground line.
 Pipe underdrain outlet pipes shall drain into concrete headwalls. See Article 601.05 of the Standard Specifications and see Highway Standard 601101.
 Reinforcement bars shall conform to the requirements of ASTM A 760 Gr. 60. See Special Provisions.
 Reinforcement bars designated (E) shall be epoxy coated.
 Rustication Finish is paid for as Form Liner Textured Surface.

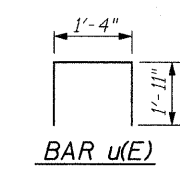
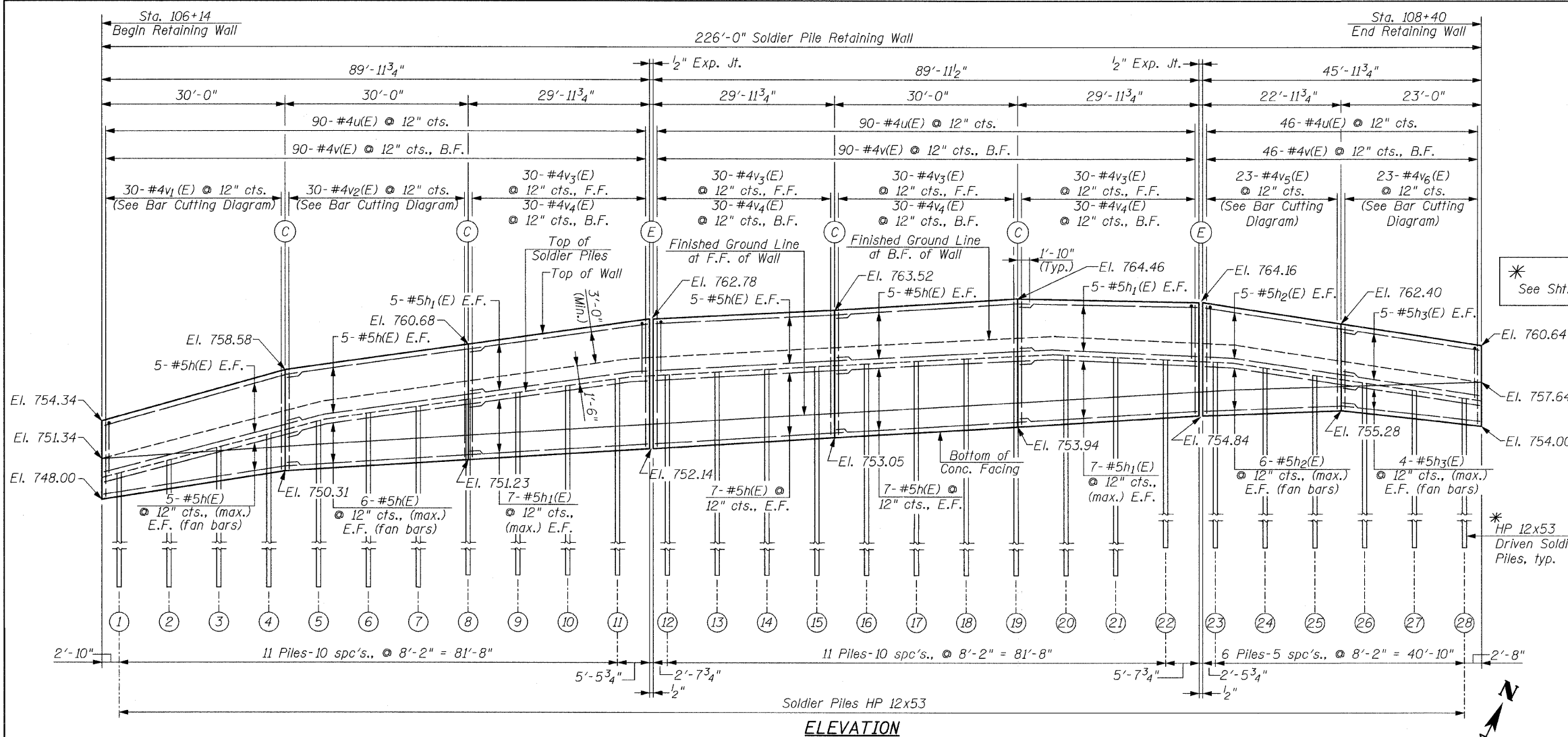


LOCATION SKETCH

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAN & ELEVATION
SOLDIER PILE RETAINING WALL (RW-3)
 F.A.P. RTE. 307 (IL. RTE. 64)
 SECTION 129-R-2
 STA. 106+14.00 TO STA. 108+40.00
 KANE COUNTY
 STRUCTURE NO. 045-W009
 SCALE: 1"=10'
 DATE: AUGUST 10, 2011
 DRAWN BY: F.M.
 CHECKED BY: B.N.S.
CHRISTIAN-ROGE & ASSOC., INC.
 CHICAGO ILLINOIS

FILE NAME = rce64gpln3.dgn
 PLOT DATE = 9/12/2011
 PLOT SCALE = 10:8000 1/1 IN.



BILL OF MATERIAL

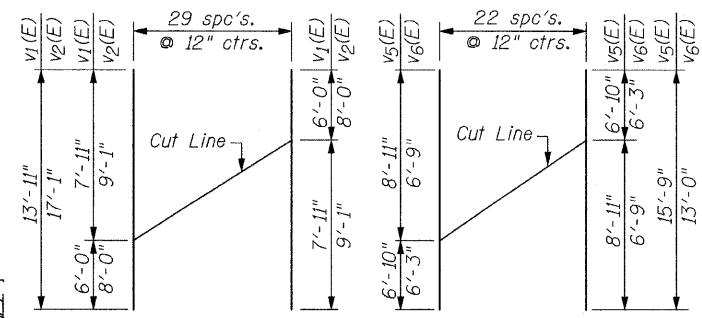
BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	90	#6	32'-7"	—
h1(E)	48	#6	29'-8"	—
h2(E)	22	#6	25'-7"	—
h3(E)	18	#6	22'-8"	—
u(E)	226	#6	5'-2"	□
v(E)	226	#6	4'-3"	—
v1(E)	30	#6	13'-11"	—
v2(E)	30	#6	17'-1"	—
v3(E)	120	#6	10'-3"	—
v4(E)	120	#6	8'-3"	—
v5(E)	23	#6	15'-9"	—
v6(E)	23	#6	13'-0"	—

Concrete Structures	Cu. Yd.	84.7
Reinforcement Bars, Epoxy Coated	Pound	16,920
Structure Excavation	Cu. Yd.	151
Stud Shear Connectors	Each	740

* See Sht. S3 for pile tip elevations

LEGEND:
 F.F. = Front Face
 B.F. = Back Face
 E.F. = Each Face
 (C) = Construction Jt.
 (E) = Expansion Jt. (1/2")
 (I) = Pile Numbers

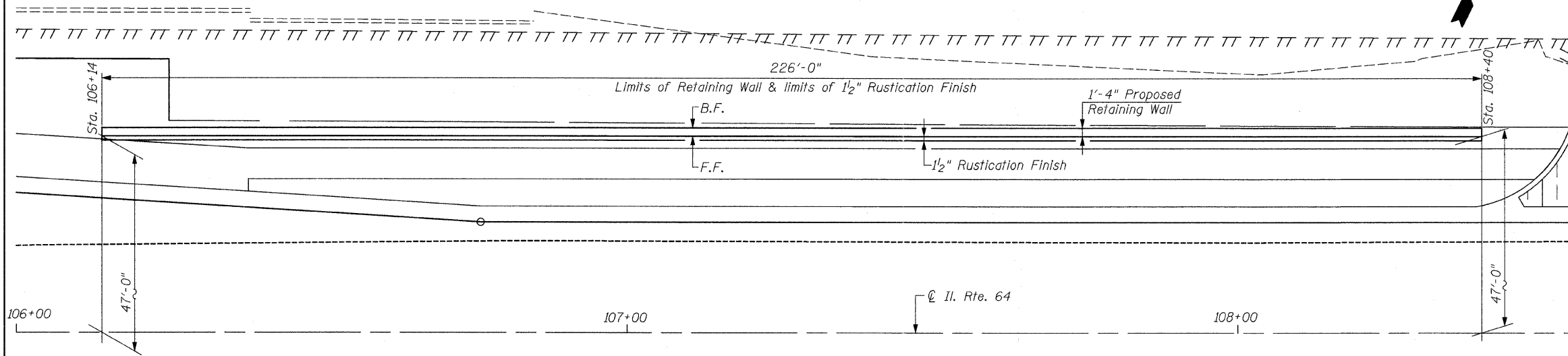
MIN. BAR LAP:
 #6 bars = 2'-7"



BARS v1(E) & v2(E) **BARS v5(E) & v6(E)**

BAR CUTTING DIAGRAMS

Order v1(E), v2(E), v5(E) & v6(E) bars full length. Cut as shown and use remainder of bars in opposite side



PLAN OF WALL
SOLDIER PILE RETAINING WALL (RW-3)

NOTES:
 For Constr. Jt. (C) & Exp. Jt. (E) Details, See Sht. S4.
 Place reinforcement bars to miss Shear Studs while conforming to maximum spacing as indicated.

REVISIONS	
NAME	DATE

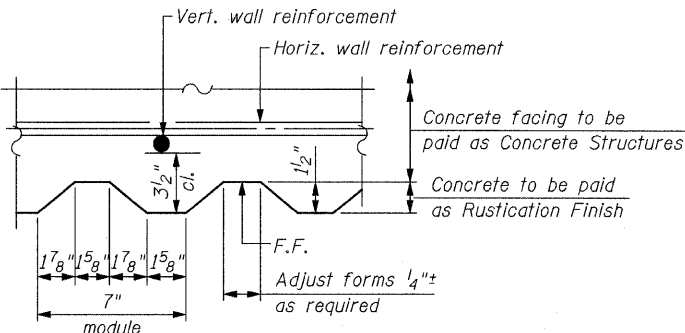
ILLINOIS DEPARTMENT OF TRANSPORTATION
REINFORCEMENT DETAILS
SOLDIER PILE RETAINING WALL (RW-3)
 F.A.P. RTE. 307 (IL. RTE. 64)
 SECTION 129-R-2
 STA. 106+14.00 TO STA. 108+40.00
 KANE COUNTY
 STRUCTURE NO. 045-W009
 SCALE: 1"=10'
 DATE: AUGUST 10, 2011
 DRAWN BY: F.M.
 CHECKED BY: B.N.S.
CHRISTIAN-ROGE & ASSOC., INC.
 CHICAGO ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	166
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS		
		FED. AID PROJECT		

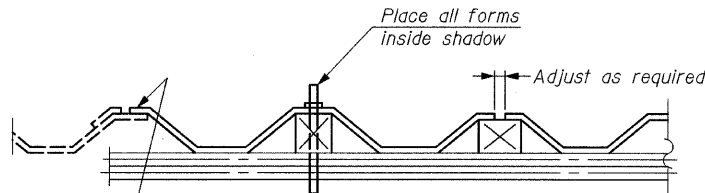
CONTRACT NO. 62195

STUD SPACING TABLE

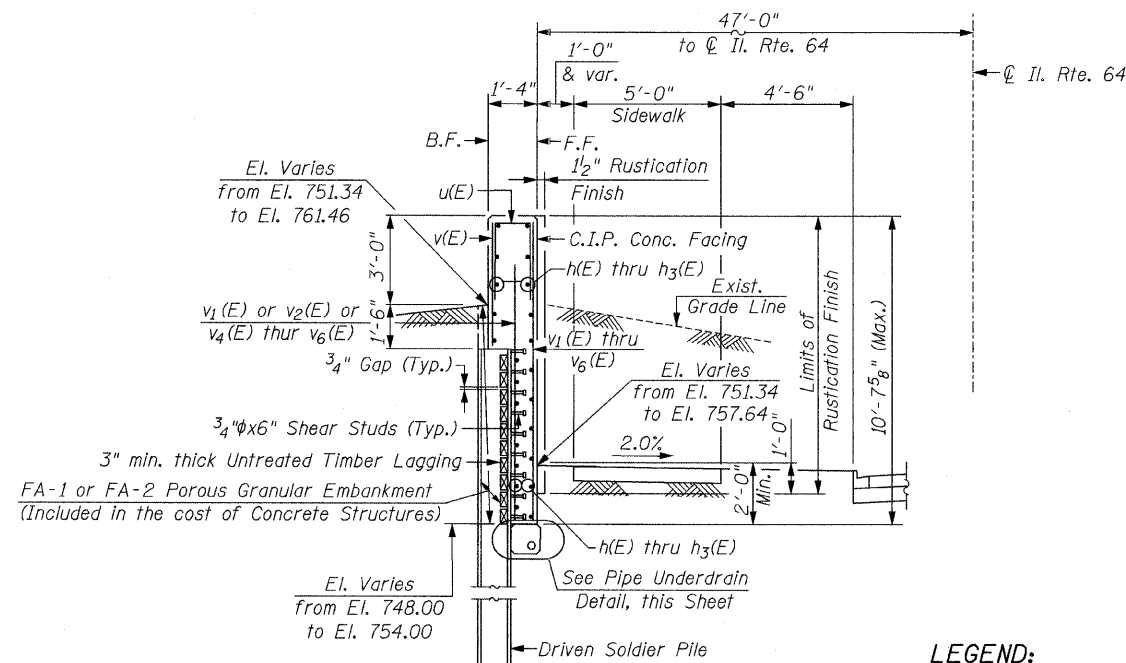
PILE NO.	TOP/PILE	TIP/PILE	APPROX. PILE LENGTH (FT.)	NO. STUD PER PILE	SPACING
1	751.24	733.22	18.02	2 x 8 = 16	7 Spa. @ 3.75 in = 1'-6 3/4"
2	752.39	733.85	18.55	2 x 9 = 18	8 Spa. @ 4.25 in = 2'-1 1/2"
3	753.55	734.47	19.08	2 x 11 = 22	10 Spa. @ 4.25 in = 2'-5 3/4"
4	754.70	735.10	19.60	2 x 12 = 24	11 Spa. @ 4.00 in = 3'-2 1/4"
5	755.46	735.48	19.99	2 x 13 = 26	12 Spa. @ 4.25 in = 3'-2 1/4"
6	756.04	735.73	20.31	2 x 14 = 28	13 Spa. @ 4.25 in = 3'-6 1/2"
7	756.61	735.98	20.63	2 x 15 = 30	14 Spa. @ 4.25 in = 3'-10 3/4"
8	757.18	736.23	20.95	2 x 15 = 30	14 Spa. @ 4.25 in = 4'-3"
9	757.48	736.48	21.00	2 x 15 = 30	14 Spa. @ 4.25 in = 4'-7 1/4"
10	757.78	736.73	21.05	2 x 16 = 32	15 Spa. @ 4.25 in = 4'-7 1/4"
11	758.08	736.97	21.10	2 x 16 = 32	15 Spa. @ 4.25 in = 4'-11 1/2"
12	758.35	737.22	21.12	2 x 16 = 32	15 Spa. @ 4.25 in = 5'-3 3/4"
13	758.55	737.47	21.08	2 x 16 = 32	15 Spa. @ 4.25 in = 5'-3 3/4"
14	758.75	737.71	21.03	2 x 16 = 32	15 Spa. @ 4.25 in = 5'-3 3/4"
15	758.95	737.96	20.99	2 x 15 = 30	14 Spa. @ 4.25 in = 4'-11 1/2"
16	759.19	738.21	20.98	2 x 15 = 30	14 Spa. @ 4.25 in = 4'-11 1/2"
17	759.44	738.45	20.99	2 x 15 = 30	14 Spa. @ 4.25 in = 4'-11 1/2"
18	759.70	738.69	21.00	2 x 16 = 32	15 Spa. @ 4.25 in = 5'-3 3/4"
19	759.95	738.94	21.02	2 x 16 = 32	15 Spa. @ 4.25 in = 5'-3 3/4"
20	759.88	739.18	20.70	2 x 15 = 30	14 Spa. @ 4.25 in = 4'-11 1/2"
21	759.80	739.43	20.37	2 x 14 = 28	13 Spa. @ 4.25 in = 4'-7 1/4"
22	759.72	739.67	20.05	2 x 13 = 26	12 Spa. @ 4.25 in = 4'-3"
23	759.58	739.89	19.69	2 x 12 = 24	11 Spa. @ 4.25 in = 3'-10 3/4"
24	759.31	740.05	19.26	2 x 11 = 22	10 Spa. @ 4.25 in = 3'-2 1/4"
25	759.04	740.20	18.83	2 x 10 = 20	9 Spa. @ 4.25 in = 2'-5 3/4"
26	758.59	740.06	18.53	2 x 9 = 18	8 Spa. @ 4.00 in = 2'-1 1/2"
27	757.97	739.60	18.36	2 x 9 = 18	8 Spa. @ 4.25 in = 1'-9 1/4"
28	757.34	739.15	18.20	2 x 8 = 16	7 Spa. @ 4.25 in = 1'-9 1/4"
TOTAL				740	



**SECTION THRU WALL
SHOWING RUSTICATION FINISH**



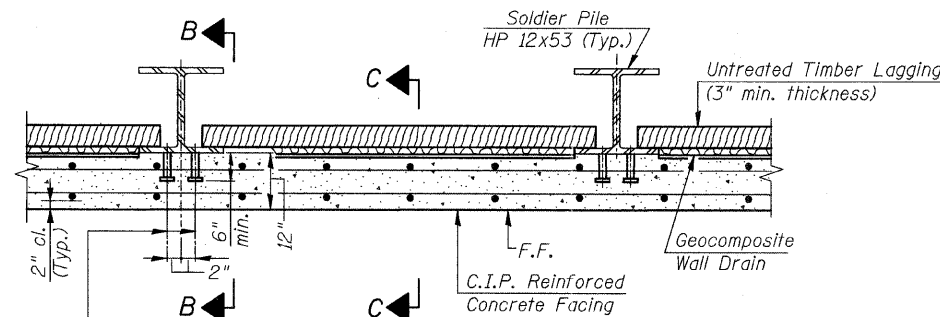
SUGGESTED FORMWORK DETAIL



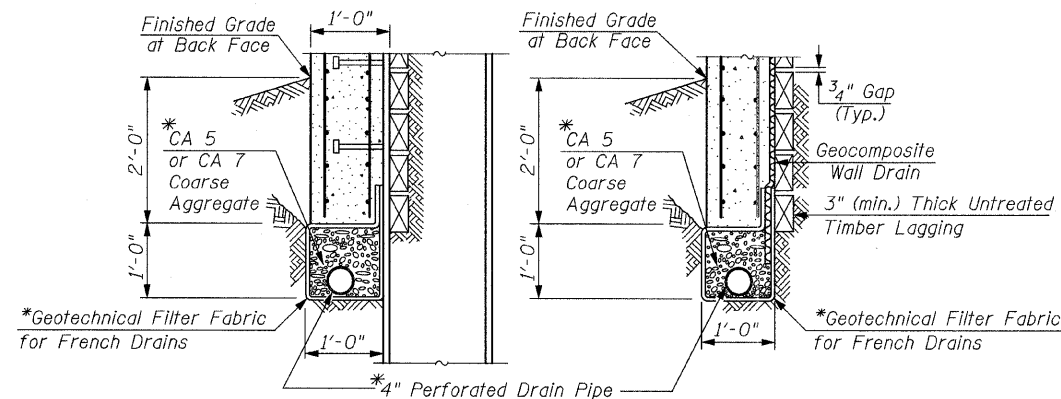
**DRIVEN SOLDIER PILE
(From Sta. 106+14.00 To Sta. 108+40.00)
(Looking East)**

TYPICAL WALL SECTION

LEGEND:
F.F. = Front Face
B.F. = Back Face
C.I.P. = Cast-In-Place

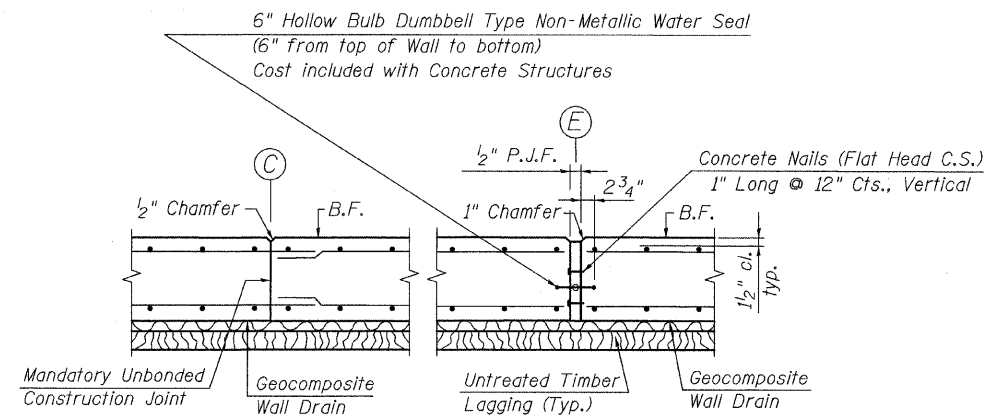


**TYPICAL SECTION THRU SOLDIER PILE WALL
(Rustication Finish omitted)**



**SECTION B-B SECTION C-C
AT SOLDIER PILES BETWEEN SOLDIER PILES
PIPE UNDERDRAIN DETAIL
(Rustication Finish omitted)**

*Cost included with Pipe Underdrains for Structures 4"



CONSTRUCTION JOINT EXPANSION JOINT

**END OF PANEL DETAILS
(Rustication Finish omitted)**

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**SECTIONS & DETAILS OF SOLDIER PILES
 SOLDIER PILE RETAINING WALL (RW-3)
 F.A.P. RTE. 307 (IL. RTE. 64)
 SECTION 129-R-2
 STA. 106+14.00 TO STA. 108+40.00
 KANE COUNTY
 STRUCTURE NO. 045-W009**
 SCALE: 1/2"=10'
 DATE: AUGUST 10, 2011
 DRAWN BY: F.M.
 CHECKED BY: B.N.S.
CHRISTIAN-ROGE & ASSOC., INC.
 CHICAGO ILLINOIS

FILE NAME: r464resmf38.dgn
 PLOT DATE: 9/12/2011
 PLOT SCALE: 1/8"=1'-0"

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	167
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS		
		FED. AID PROJECT		

CONTRACT NO. 62195

BORING LOG B-1 Page 1 of 1

Wang Engineering, Inc. Consulting Geotechnical and Environmental Engineers
wangeng3@wangeng.com
100 Fairbank Street
Addison, IL 60101
Telephone: 630 458-0700
Fax: 630 458-0900

WEI Job No.: 950-01-02

Datum: NGVD
Elevation: 757.38 ft
North: 27.00 ft
East: 10829.00 ft
Station: 108+29
Offset: 27 LT

Client: Christian Roge & Associates, Inc.
Project: FAP 307 (IL Rt. 64), IDOT D-91-184-01
Location: 7th St. to Dunham Rd., Kane County, IL.

BORING LOG B-2 Page 1 of 1

Wang Engineering, Inc. Consulting Geotechnical and Environmental Engineers
wangeng3@wangeng.com
100 Fairbank Street
Addison, IL 60101
Telephone: 630 458-0700
Fax: 630 458-0900

WEI Job No.: 950-01-02

Datum: NGVD
Elevation: 755.50 ft
North: 27.00 ft
East: 10765.00 ft
Station: 107+65
Offset: 27 LT

Client: Christian Roge & Associates, Inc.
Project: FAP 307 (IL Rt. 64), IDOT D-91-184-01
Location: 7th St. to Dunham Rd., Kane County, IL.

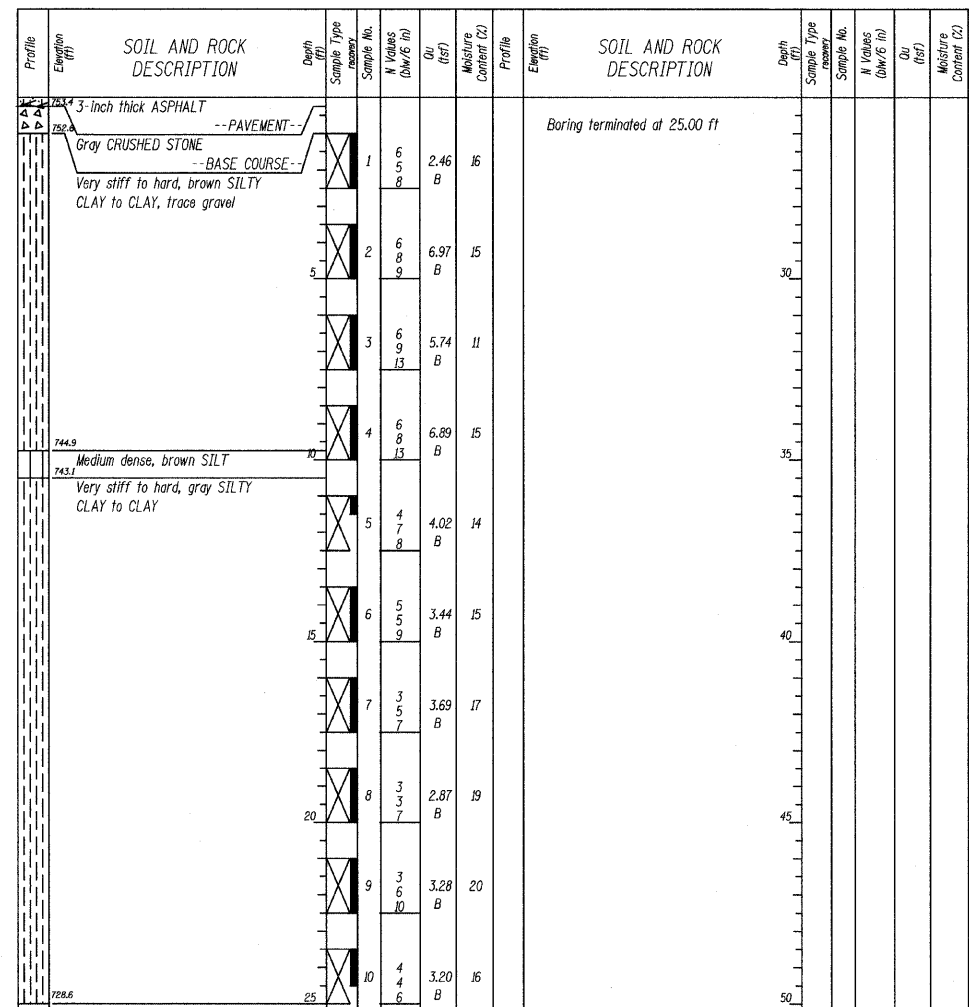
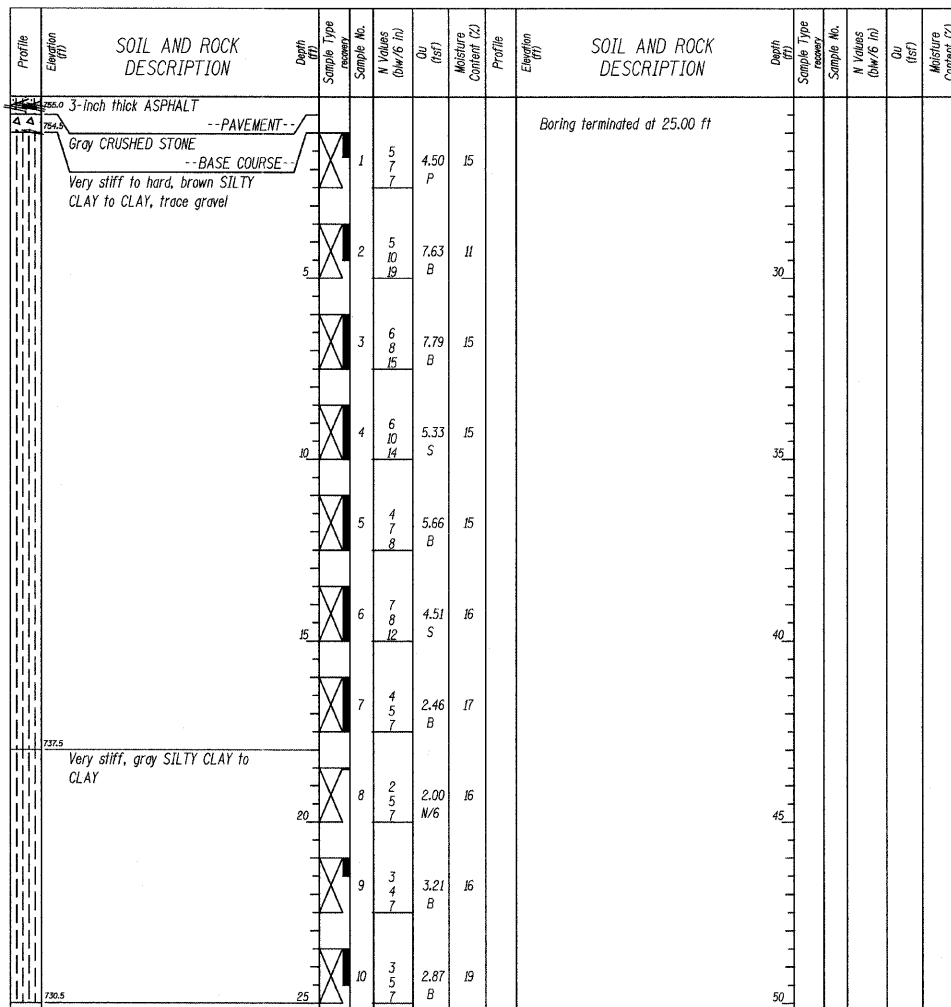
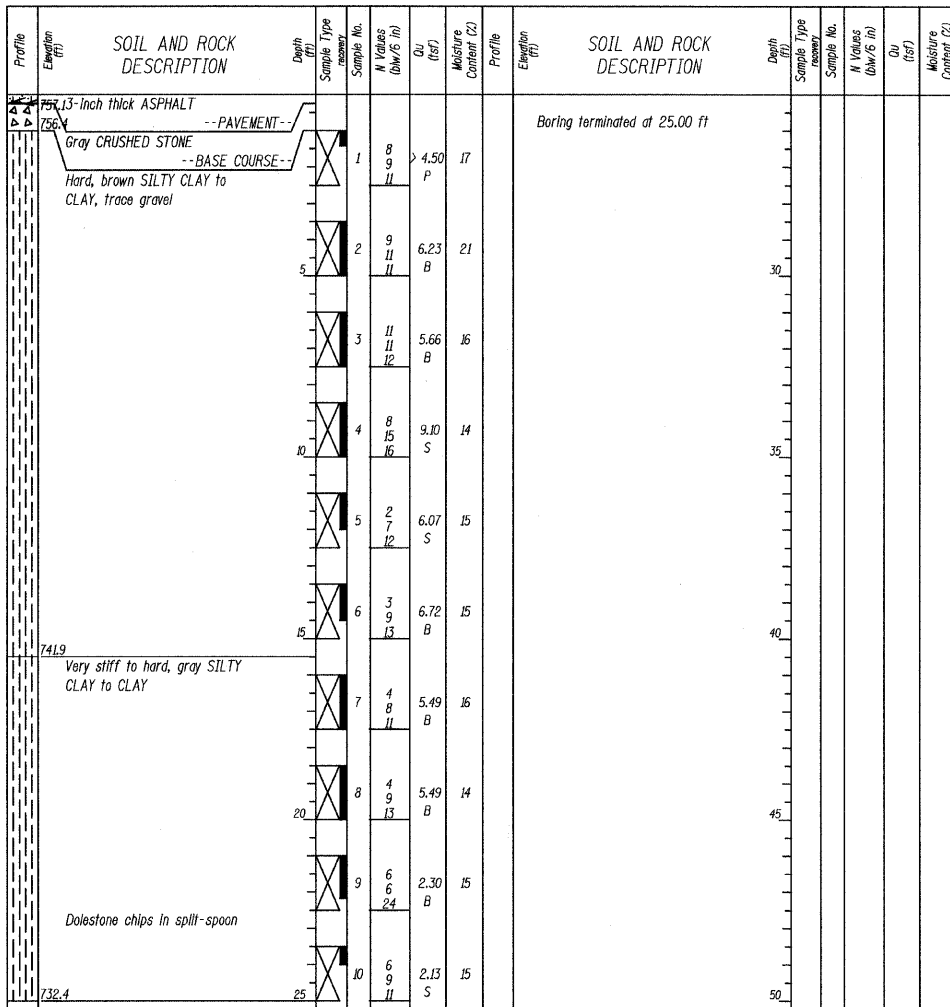
BORING LOG B-3 Page 1 of 1

Wang Engineering, Inc. Consulting Geotechnical and Environmental Engineers
wangeng3@wangeng.com
100 Fairbank Street
Addison, IL 60101
Telephone: 630 458-0700
Fax: 630 458-0900

WEI Job No.: 950-01-02

Datum: NGVD
Elevation: 753.63 ft
North: 27.00 ft
East: 10705.00 ft
Station: 107+05
Offset: 27 LT

Client: Christian Roge & Associates, Inc.
Project: FAP 307 (IL Rt. 64), IDOT D-91-184-01
Location: 7th St. to Dunham Rd., Kane County, IL.



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	12-27-2002	Complete Drilling	12-27-2002
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75
Driller	J&J	Logger	S. Janowski
Checked by	B. Fugiel	Time After Drilling	NA
Drilling Method	HSA 3.25" ID; Boring backfilled upon completion		
While Drilling	DRY		
At Completion of Drilling	☒ DRY		
Depth to Water	☒ NA		

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	12-27-2002	Complete Drilling	12-27-2002
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75
Driller	J&J	Logger	S. Janowski
Checked by	B. Fugiel	Time After Drilling	NA
Drilling Method	HSA 3.25" ID; Boring backfilled upon completion		
While Drilling	DRY		
At Completion of Drilling	☒ DRY		
Depth to Water	☒ NA		

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	12-27-2002	Complete Drilling	12-27-2002
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75
Driller	J&J	Logger	S. Janowski
Checked by	B. Fugiel	Time After Drilling	NA
Drilling Method	HSA 3.25" ID; Boring backfilled upon completion		
While Drilling	DRY		
At Completion of Drilling	☒ DRY		
Depth to Water	☒ NA		

FILE NAME = r-e6461og3.dgn
PLOT DATE = 9/12/2011
PLOT SCALE = 1/8" = 1'-0"

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
SOLDIER PILE RETAINING WALL (RW-3)
F.A.P. RTE. 307 (IL. RTE. 64)
SECTION 129-R-2
STA. 106+14.00 TO STA. 108+40.00
KANE COUNTY
STRUCTURE NO. 045-W009

SCALE: NONE
DATE: AUGUST 10, 2011

DRAWN BY: F.M.
CHECKED BY: B.N.S.

CHRISTIAN-ROGE & ASSOC., INC.
CHICAGO ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	168
STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		

CONTRACT NO. 62195

Wang Engineering, INC.
Consulting Geotechnical and Environmental Engineers
wangeng3@wangeng.com
100 Fairbank Street
Addison, IL 60101
Telephone: 630 458-0700
Fax: 630 458-0900

BORING LOG B-4

WEI Job No.: 950-01-02

Client: Christian Roge & Associates, Inc.

Project: FAP 307 (IL Rt. 64), IDOT D-91-184-01

Location: 7th St. to Dunham Rd., Kane County, IL.

Datum: NGVD
Elevation: 751.88 ft
North: 27.00 ft
East: 10646.00 ft
Station: 106+46
Offset: 27 LT

Wang Engineering, INC.
Consulting Geotechnical and Environmental Engineers
wangeng3@wangeng.com
100 Fairbank Street
Addison, IL 60101
Telephone: 630 458-0700
Fax: 630 458-0900

BORING LOG B-5

WEI Job No.: 950-01-02

Client: Christian Roge & Associates, Inc.

Project: FAP 307 (IL Rt. 64), IDOT D-91-184-01

Location: 7th St. to Dunham Rd., Kane County, IL.

Datum: NGVD
Elevation: 743.25 ft
North: 30.00 ft
East: 10559.00 ft
Station: 105+59
Offset: 30 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	N Values (blows/ft)	q _u (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	N Values (blows/ft)	q _u (tsf)	Moisture Content (%)
750.8	3-inch thick ASPHALT --PAVEMENT--							Boring terminated at 25.00 ft					
750.8	Gray CRUSHED STONE --BASE COURSE--		1	3.6	6.15	12							
	Very stiff to hard, brown SILTY CLAY to CLAY												
747.4	Medium dense, brown SILTY LOAM		2	7.9	3.17	10							
746.4	Very stiff to hard, brown SILTY CLAY to CLAY												
			3	6.10	7.30	20							
			4	5.8	6.40	21							
			5	4.6	4.10	21							
			6	3.5	3.28	21							
			7	3.4	3.69	24							
733.9	Stiff to very stiff, gray SILTY CLAY to CLAY		8	4.5	1.97	23							
			9	2.5	1.67	15							
			10	2.4	2.13	23							
726.9													

GENERAL NOTES

Begin Drilling: 12-27-2002 Complete Drilling: 12-27-2002

Drilling Contractor: Patrick Drilling Drill Rig: CME 75

Driller: J&J Logger: S. Janowski Checked by: B. Fugiel

Drilling Method: HSA 3.25" ID; Boring backfilled upon completion

WATER LEVEL DATA

While Drilling: DRY

At Completion of Drilling: DRY

Time After Drilling: NA

Depth to Water: NA

The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	N Values (blows/ft)	q _u (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	N Values (blows/ft)	q _u (tsf)	Moisture Content (%)
748.9	4-inch thick ASPHALT --PAVEMENT--							Boring terminated at 25.00 ft					
748.9	Gray CRUSHED STONE --BASE COURSE--		1	4.2	NP	30							
	Loose, black SILTY LOAM, organic matter present												
	Very stiff, brown and black CLAY LOAM		2	3.3	2.00	21							
743.8	Very stiff, brown SILTY CLAY												
			3	4.6	3.67	17							
742.0	Medium dense, brown SILTY LOAM												
			4	10.13	4.50	13							
739.8	Hard, brown SILTY CLAY to CLAY												
			5	3.8	5.90	22							
			6	4.5	3.94	22							
			7	0.3	3.00	21							
			8	0.5	1.50	14							
			9	3.4	2.79	22							
			10	2.4	1.89	22							
724.3													

GENERAL NOTES

Begin Drilling: 12-27-2002 Complete Drilling: 12-27-2002

Drilling Contractor: Patrick Drilling Drill Rig: CME 75

Driller: J&J Logger: S. Janowski Checked by: B. Fugiel

Drilling Method: HSA 3.25" ID; Boring backfilled upon completion

WATER LEVEL DATA

While Drilling: DRY

At Completion of Drilling: DRY

Time After Drilling: NA

Depth to Water: NA

The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.

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 PLOT DATE: 9/12/2011
 PLOT SCALE: 1/8" = 1'-0"

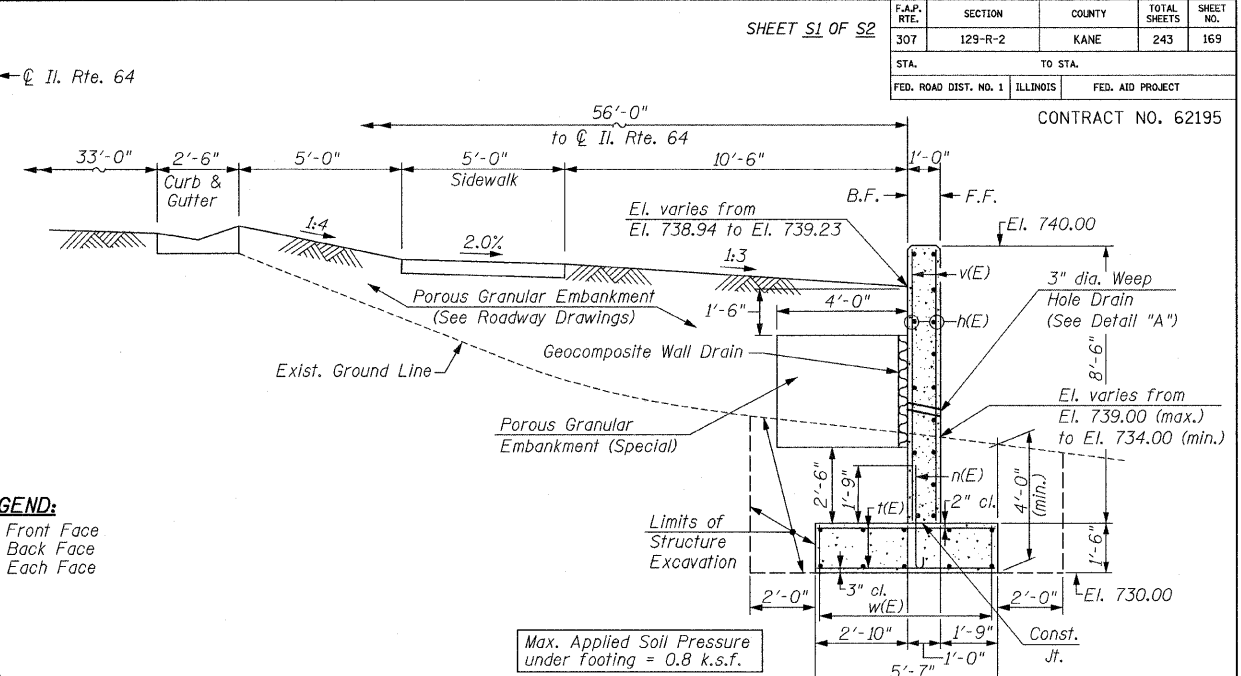
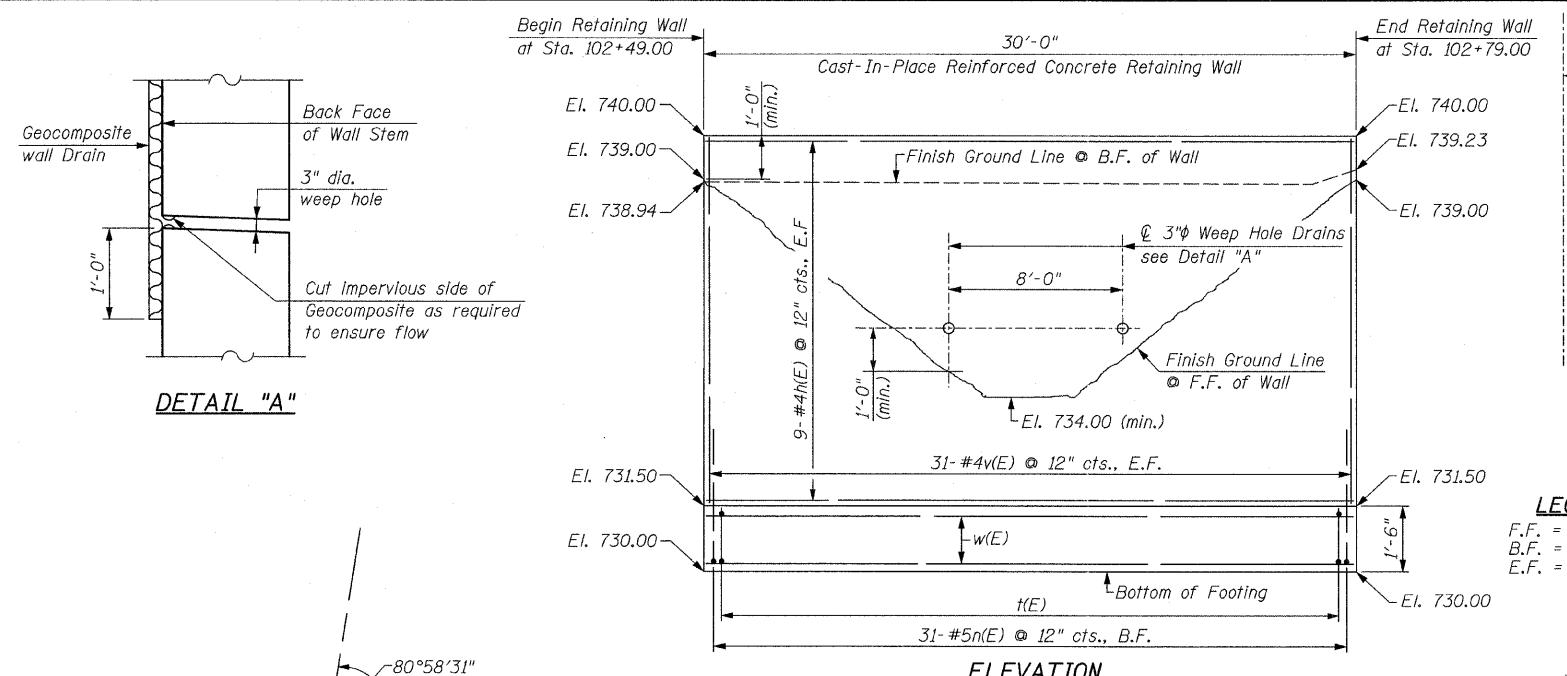
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
SOLDIER PILE RETAINING WALL (RW-3)
F.A.P. RTE. 307 (IL. RTE. 64)
SECTION 129-R-2
STA. 106+14.00 TO STA. 108+40.00
KANE COUNTY
STRUCTURE NO. 045-W009

SCALE: NONE DRAWN BY: F.M.
 DATE: AUGUST 10, 2011 CHECKED BY: B.N.S.

CHRISTIAN-ROGE & ASSOC., INC.
 CHICAGO ILLINOIS



LEGEND:
 F.F. = Front Face
 B.F. = Back Face
 E.F. = Each Face

GENERAL NOTES:
 Reinforcement Bars shall conform to the requirements of ASTM A 706 Gr. 60. See Special Provisions.
 Reinforcement bars designated (E) shall be epoxy coated.

DESIGN SPECIFICATIONS
 AASHTO Standard Specifications for Highway Bridges 17th Edition-2002

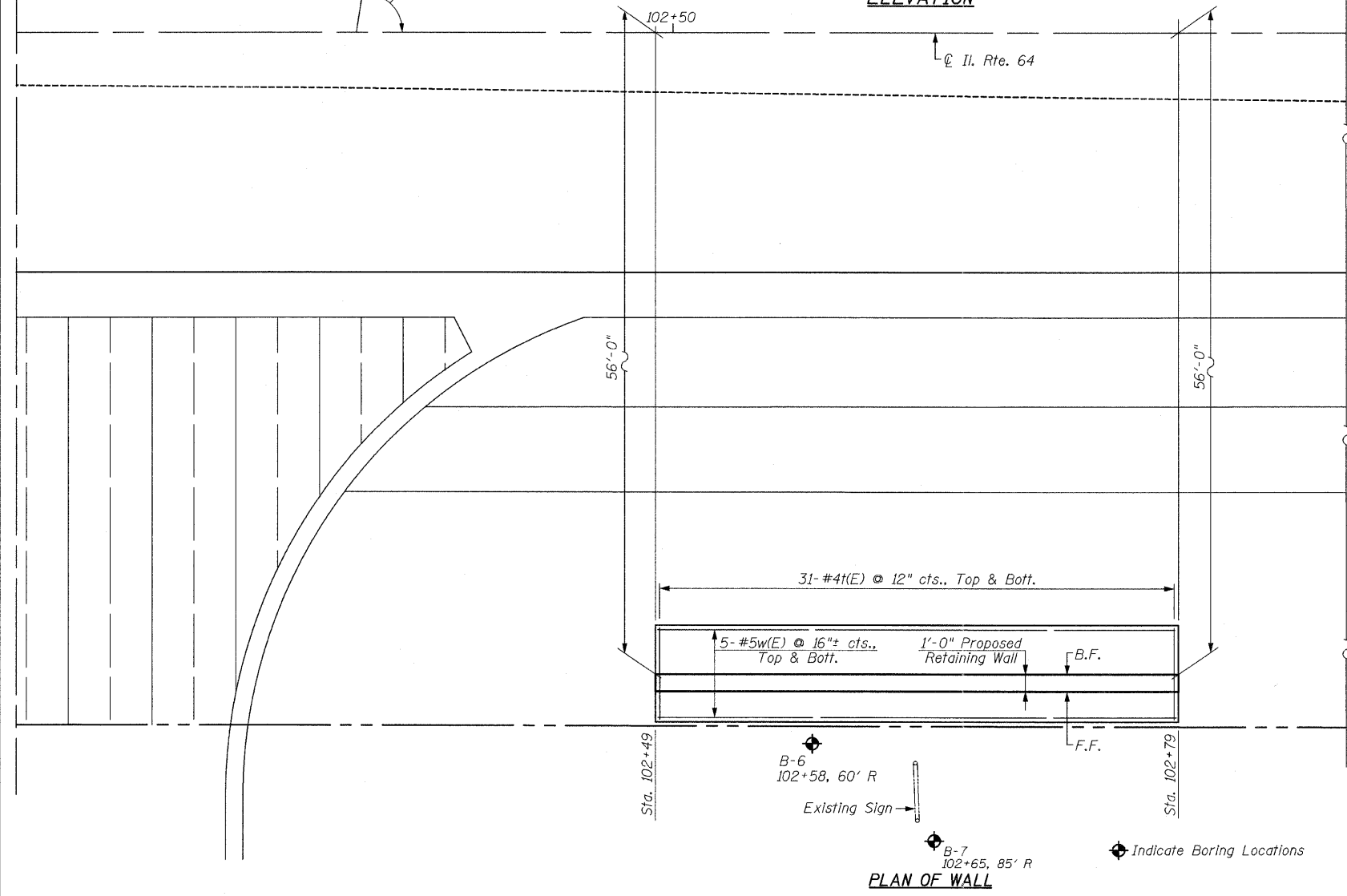
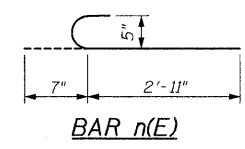
DESIGN STRESSES
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

TYPICAL WALL SECTION
 (From Sta. 102+49.00 To Sta. 102+79.00)

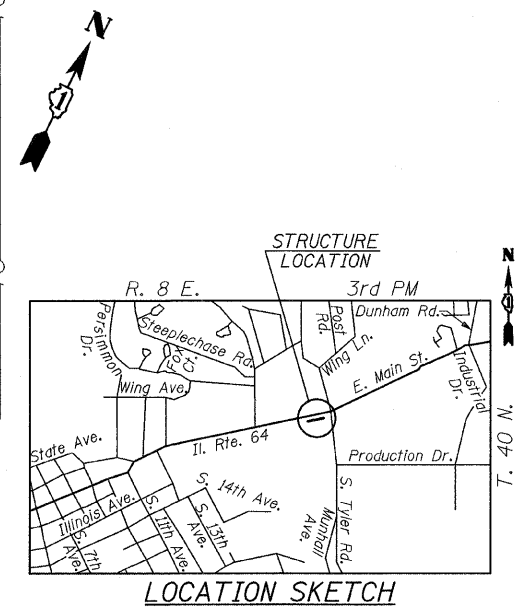
TOTAL BILL OF MATERIAL

BAR NO.	SIZE	LENGTH	SHAPE
n(E)	#4	29'-8"	—
n(E)	#5	3'-6"	C
n(E)	#4	5'-4"	—
v(E)	#4	8'-3"	—
w(E)	#5	29'-8"	—

Concrete Structures	Cu. Yd.	18.8
Reinforcement Bars, Epoxy Coated	Pound	1,340
Geocomposite Wall Drain	Sq. Yd.	17
Structure Excavation	Cu. Yd.	74
Porous Granular Embankment (Special)	Cu. Yd.	22.3



CAST-IN-PLACE REINFORCED CONCRETE RETAINING WALL (RW-4)



BHADRISH N. SHAH
 LICENSED STRUCTURAL ENGINEER
 STATE OF ILLINOIS LIC. No. 081-004476
 EXPIRES: 11-30-12

ILLINOIS DEPARTMENT OF TRANSPORTATION

PLAN & ELEVATION CAST-IN-PLACE RETAINING WALL (RW-4)
 F.A.P. RTE. 307 (IL. RTE. 64)
 SECTION 129-R-2
 STA. 102+49.00 TO STA. 102+79.00
 KANE COUNTY
 STRUCTURE NO. 045-W013

SCALE: 1/4"=1'-0" DRAWN BY: F.M.
 DATE: DECEMBER 3, 2011 CHECKED BY: B.N.S.

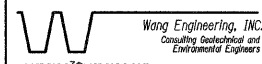
CHRISTIAN-ROGE & ASSOC., INC.
 CHICAGO ILLINOIS

REVISIONS	
NAME	DATE

FILE NAME = rws4.rpt.plt.dgn
 PLOT DATE = 12/2/2011
 PLOT SCALE = 4/165 1/1 IN.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	170
STA. TO STA.		FED. AID PROJECT		
FED. ROAD DIST. NO. 1		ILLINOIS		

CONTRACT NO. 62195



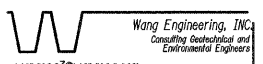
Wang Engineering, Inc.
Consulting Geotechnical and Environmental Engineers
wangeng3@wangeng.com
100 Fairbank Street
Addison, IL 60101
Telephone: 630 458-0700
Fax: 630 458-0900

BORING LOG B-6

WEI Job No.: 950-01-02

Datum: NGVD
Elevation: 734.00 ft
North: -60.00 ft
East: 10258.00 ft
Station: 102+58
Offset: 60 RT

Client: Christian Roge & Associates, Inc.
Project: FAP 307 (IL Rt. 64), IDOT D-91-184-01
Location: 7th St. to Dunham Rd., Kane County, IL.



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Fax: 630 458-0900

BORING LOG B-7

WEI Job No.: 950-01-02

Datum: NGVD
Elevation: 733.50 ft
North: -85.00 ft
East: 10265.00 ft
Station: 102+65
Offset: 85 RT

Client: Christian Roge & Associates, Inc.
Project: FAP 307 (IL Rt. 64), IDOT D-91-184-01
Location: 7th St. to Dunham Rd., Kane County, IL.

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	N Values (blows/ft)	OU (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	N Values (blows/ft)	OU (tsf)	Moisture Content (%)
733.0	Black SILTY LOAM --TOPSOIL-- Very stiff to hard, brown SILTY CLAY to CLAY	0	1	4.69	6.23	19	733.0	Boring terminated at 25.00 ft	0				
		5	2	4.88	5.74	20			5				
		10	3	4.69	5.41	22			10				
		15	4	4.66	3.94	24			15				
		20	5	3.58	3.28	25			20				
		25	6	3.58	2.30	24			25				
717.8	Loose, brown, medium SAND	25	7	0.23	NP	16	717.8		25				
715.3	Loose, brown SILTY LOAM	30	8	8.36	NP	20	715.3		30				
713.5	Medium dense, gray SILTY LOAM	35	9	2.50	NP	16	713.5		35				
709.0		40	10	3.57	NP	16	709.0		40				

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	N Values (blows/ft)	OU (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	N Values (blows/ft)	OU (tsf)	Moisture Content (%)
732.5	Black SILTY LOAM --TOPSOIL-- Very stiff to hard, brown SILTY CLAY to CLAY	0	1	3.70	7.05	21	732.5	Boring terminated at 25.00 ft	0				
		5	2	4.88	6.23	21			5				
		10	3	4.48	4.51	24			10				
		15	4	3.67	2.77	27			15				
		20	5	0.48	5.25	23			20				
719.5	Loose, brown, medium SAND	25	6	7.43	NP	6	719.5		25				
718.0	Medium dense, brown SILTY LOAM	30	7	3.47	NP	18	718.0		30				
		35	8	4.66	NP	17			35				
713.0	Loose, gray SILTY LOAM	40	9	3.22	NP	18	713.0		40				
709.3	Medium dense, brown LOAM	45	10	2.51	NP	19	709.3		45				

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-30-2002	Complete Drilling	12-30-2002	While Drilling	16.50 ft		
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75	At Completion of Drilling	DRY		
Driller	J.B.J.	Logger	S. Janowski	Time After Drilling	NA		
Checked by	B. Fugiel	Drilling Method	HSA 3.25" ID; Boring backfilled upon completion	Depth to Water	NA		
				The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.			

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-30-2002	Complete Drilling	12-30-2002	While Drilling	16.50 ft		
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75	At Completion of Drilling	DRY		
Driller	J.B.J.	Logger	S. Janowski	Time After Drilling	NA		
Checked by	B. Fugiel	Drilling Method	HSA 3.25" ID; Boring backfilled upon completion	Depth to Water	NA		
				The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.			

FILE NAME = r64b104.dgn
 PLOT DATE = 12/23/2011
 PLOT SCALE = 4.165 / 1 IN.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
CAST-IN-PLACE RETAINING WALL (RW-4)
F.A.P. RTE. 307 (IL. RTE. 64)
SECTION 129-R-2
STA. 102+49.00 TO STA. 102+79.00
KANE COUNTY
STRUCTURE NO. 045-W013

SCALE: NONE DRAWN BY: F.M.
DATE: DECEMBER 3, 2011 CHECKED BY: B.N.S.

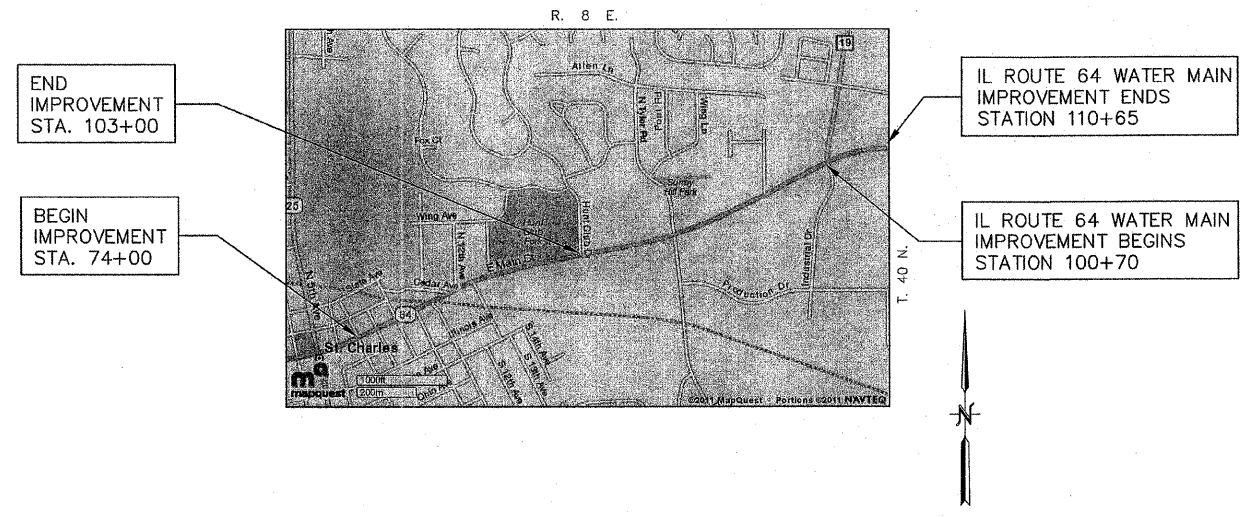
CHRISTIAN-ROGE & ASSOC., INC.
CHICAGO ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129 R-2	KANE	243	171
PLAN AND PROFILE		CONTRACT NO. 62195		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	REVISIONS	
			SEPTEMBER 30, 2010	
			OCTOBER 15, 2010	

INDEX TO SHEETS	
SHEET NO.	DESCRIPTION
WM-1	COVER SHEET
WM-2	GENERAL NOTES & LEGEND
WM-3	BILL OF MATERIALS
WM4	STAGING PLAN
WM5-WM12	PLAN AND PROFILE
WM13-WM14	SPECIAL DETAILS

CITY OF ST. CHARLES KANE COUNTY ILLINOIS

ILLINOIS ROUTE 64 WATER MAIN IMPROVEMENTS DUNHAM ROAD TO ST. CHARLES PLACE 7th AVENUE TO HUNT CLUB DRIVE 2010



LOCATION MAP
SCALE: 1" = 900'

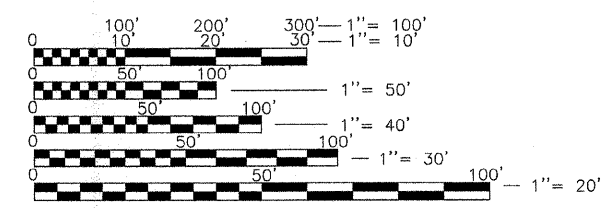
TOTAL LENGTH OF IMPROVEMENT — IL ROUTE 64 WATER MAIN = 995 LIN. FT. (0.188 MILES)
IL ROUTE 64 WATER MAIN = 2900 LIN. FT. (0.549 MILES)
3895 LIN. FT. (0.737 MILES)

DESCRIPTION OF PROJECT

THIS IMPROVEMENT CONSISTS OF WATER MAIN INSTALLATION, PAVEMENT PATCHING, HOT-MIX ASPHALT SURFACE REMOVAL AND REPLACEMENT, CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT, CONCRETE SIDEWALK REMOVAL AND REPLACEMENT, PAVEMENT MARKING, LANDSCAPING AND OTHER APPURTENANT WORK NECESSARY TO COMPLETE THE PROJECT SHOWN HEREIN AND AS DESCRIBED IN THE SPECIFICATIONS.

APPROVED 5/17/11 20 11

[Signature]
LOCAL AGENCY OFFICIAL

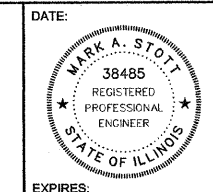


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

DATE: 5/17/11

BY: *[Signature]*
MARK A. STOTT

LICENSE EXPIRES: November 30, 2011



HAMPTON, LENZINI AND RENWICK, INC.
CIVIL ENGINEERS - STRUCTURAL ENGINEERS - LAND SURVEYORS

HLR
380 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
847.697.8700 www.hirengineering.com

184.000999
ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORPORATION

PROJECT NUMBER: 10.0186.530 DATE: 1-10-11

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129 R-2	KANE	243	172
PLAN AND PROFILE			CONTRACT NO. 62195	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	REVISIONS	
			SEPTEMBER 30, 2010	
			OCTOBER 15, 2010	

WM-2

WATER MAIN GENERAL NOTES

SEWERS AND WATER MAINS

WATER MAIN WORK SHALL BE DONE DURING STAGE I AND II OF THE ILLINOIS ROUTE 64 CONSTRUCTION.

ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.

WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN IN AN OPERATING CONDITION TEMPORARY OUTLETS AND CONNECTIONS FOR ALL DRAINS, SEWERS, AND CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES WHICH HAVE THE CAPACITY TO RECEIVE AND DISCHARGE THE STORM WATER FLOW RATES NORMALLY ACCEPTED AND RELEASED BY EXISTING DRAINAGE FACILITIES. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT, UNLESS OTHERWISE NOTED IN THE PLANS.

THE COST OF INTERCONNECTIONS BETWEEN THE PROPOSED AND EXISTING SEWER SYSTEMS AND PROPOSED AND EXISTING WATER MAIN SYSTEMS SHALL BE INCLUDED IN THE VARIOUS UNIT PRICES OF THE ITEMS BEING CONNECTED.

ALL FRAMES, GRATES, LIDS, AND BOXES SCHEDULED TO BE REMOVED FROM EXISTING STRUCTURES SHALL REMAIN THE PROPERTY OF THE CITY. ANY ITEMS DAMAGED DURING REMOVAL SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE. THE COST OF SALVAGING EXISTING FRAMES, GRATES, LIDS, OR BOXES AND/OR STOCKPILING THEM ON THE JOB SITE FOR PICK-UP BY THE CITY OR DELIVERY TO THE CITY YARD SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.

ALL FRAMES WITH CLOSED LIDS TO BE FURNISHED AS PART OF THIS CONTRACT SHALL HAVE CAST INTO THE LID ONE OF THE FOLLOWING WORDS: FOR STORM SEWER STRUCTURES--"STORM". FOR SANITARY SEWER STRUCTURES--"SANITARY". FOR WATER SYSTEM STRUCTURES--"WATER". ANY ADDITIONAL COST FOR THIS REQUIREMENT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE FRAME AND CLOSED LID PROVIDED.

FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION AND CROSS SLOPE OF THE AREA IN WHICH THEY ARE LOCATED.

ALL STORM SEWERS SHALL BE RCCP, CLASS IV, UNLESS NOTED OTHERWISE ON THE PLAN.

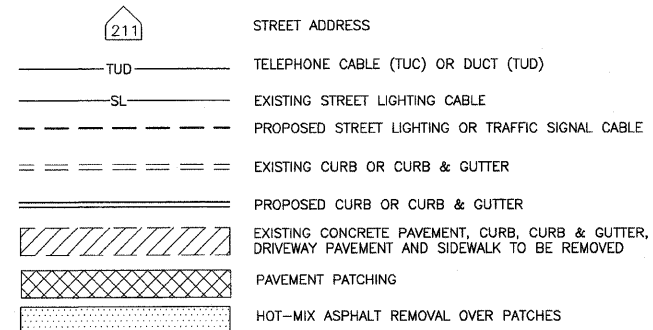
WATER MAIN SHALL HAVE A MINIMUM COVER OF FIVE AND ONE HALF FEET (5.5').

ALL WATER MAIN SHALL BE ENCASED IN A DOUBLE POLYETHYLENE ENCASEMENT. ALL WATER MAIN SHALL BE INSTALLED WITH BRASS WEDGES.

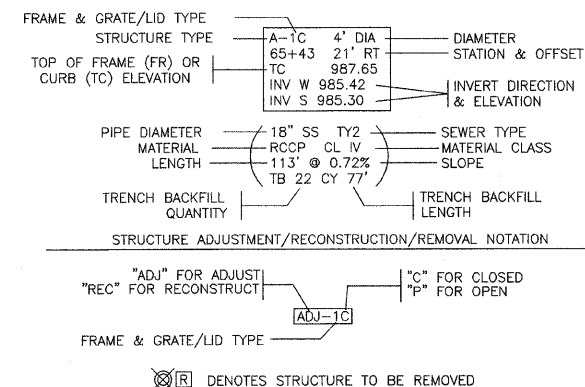
ALL PROPOSED WATER SERVICE LINES WILL BE COUPLED TO THE EXISTING WATER SERVICE LINES, AND ALL FITTINGS REQUIRED TO COMPLETE THE TIE-IN SHALL BE INCLUDED IN THE COST OF THE PROPOSED WATER SERVICE LINES.

SUPPLEMENTAL LEGEND

SEE IDOT HIGHWAY STANDARDS FOR ADDITIONAL INFORMATION



SEWER STRUCTURE AND PIPE NOTATION



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Jun 17, 2011 at 10:11

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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS RTE 64 SANITARY SEWER AND WATER MAIN IMPROVEMENTS
GENERAL NOTES & SUPPLEMENTAL LEGEND**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. ___+___ TO STA. ___+___

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129 R-2	KANE	243	WM-2
CITY OF ST. CHARLES			CONTRACT NO. 62195	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	REVISIONS	

BILL OF MATERIALS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129 R-2	KANE	243	173
PLAN AND PROFILE		CONTRACT NO. 62195		
REVISIONS				
SEPTEMBER 30, 2010				
OCTOBER 15, 2010				

WM-3

ITEM	UNIT	TOTAL QUANTITY	ST CHARLES TO DUNHAM	7 TH TO HUNT CLUB
TRENCH BACKFILL	CU YD	1,753	853	860
EXPLORATION TRENCH 84" DEPTH	FOOT	350	50	300
AGGREGATE FOR TEMPORARY ACCESS	TON	100	0	100
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	11	11	0
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	553	553	0
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	79	79	0
INCIDENTAL HMA SURFACING	TON	50	0	50
PCC SIDEWALK 5 INCH	SQ FT	640	0	640
PAVEMENT REMOVAL	SQ YD	806	806	0
DRIVEWAY PAVEMENT REMOVAL	SQ YD	17	0	17
SIDEWALK REMOVAL	SQ FT	1,446	806	640
HOT-MIX ASPHALT REMOVAL OVER PATCHES, 2"	SQ YD	97	97	0
PAVEMENT PATCHING, TYPE IV, 13 INCH	SQ YD	97	97	0
WATER MAIN 4"	FOOT	5	0	5
WATER MAIN 6"	FOOT	222	45	177
WATER MAIN 8"	FOOT	2354	108	2246
WATER MAIN 10"	FOOT	1695	0	1695
WATER MAIN 12"	FOOT	1002	1002	0
WATER VALVES 6"	EACH	3	0	3
WATER VALVES 8"	EACH	9	1	8
WATER VALVES 10"	EACH	4	0	4
WATER VALVES 12"	EACH	4	4	0
WATER SERVICE LINE 1"	FOOT	61	61	0
WATER SERVICE LINE 1 1/2"	FOOT	68	68	0
WATER SERVICE LINE 2"	FOOT	31	31	0
CORPORATION STOPS 1"	EACH	2	2	0
CORPORATION STOPS 1 1/2"	EACH	2	2	0
CORPORATION STOPS 2"	EACH	1	1	0
FIRE HYDRANTS TO BE REMOVED	EACH	8	2	6
FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	13	4	9
VALVE VAULTS, TYPE A, 4-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5	2	3
VALVE VAULTS, TYPE A, 5-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	16	4	12
POLYMERIZED LEVELING BINDER(MACHINE METHOD), IL-4.75,N50	TON	35	35	0
VALVE VAULTS TO BE REMOVED	EACH	11	4	7
VALVE BOXES TO BE REMOVED	EACH	2	0	2
HMA DRIVEWAY PAVEMENT, 10"	SQ YD	17	0	17
WATER SERVICE LINE, <i>SPECIAL</i>	<i>FOOT</i>	<i>750</i>	<i>0</i>	<i>750</i>
CURB STOP AND BOX 1"	EACH	2	2	0
CURB STOP AND BOX 1 1/2"	EACH	2	2	0
CURB STOP AND BOX 2"	EACH	1	1	0
CURB STOP AND BOX TO BE REMOVED	EACH	18	0	18
STEEL CASING PIPE, 24" (PUSHED)	FOOT	815	60	755
STEEL CASING PIPE, 24" (IN TRENCH)	FOOT	20	0	20
<i>CLASS D PATCHES, TYPE IIZ, 12 INCH (SPECIAL)</i>	SQ YD	102	0	102
REMOVAL OF ASBESTOS WATERMAIN	FOOT	20	0	20
CLASS B PATCHES, SPECIAL, 13 INCH	SQ YD	4	0	4
CLASS C PATCHES, SPECIAL, 12 INCH	SQ YD	18	0	18

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Jun 13, 2011 01:10:32

FILE NAME =	USER NAME =	DESIGNED —	REVISED — 12-2-2011	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BILL OF MATERIALS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN —				307	129 R-2	KANE	243	173
		CHECKED —				CITY OF ST. CHARLES		CONTRACT NO. 62195		
		DATE —				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
						SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA. ___+___ TO STA. ___+___

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129 R-2	KANE	243	174
PLAN AND PROFILE		CONTRACT NO. 62195		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

WM-4

ROUTE 64 SUGGESTED STAGING AND PATCHING

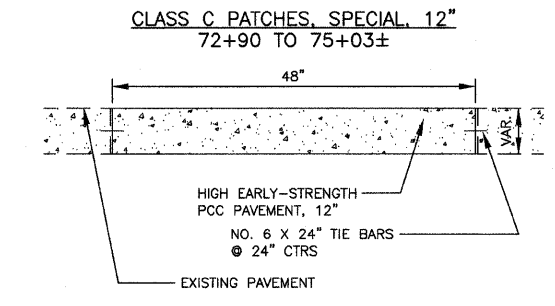
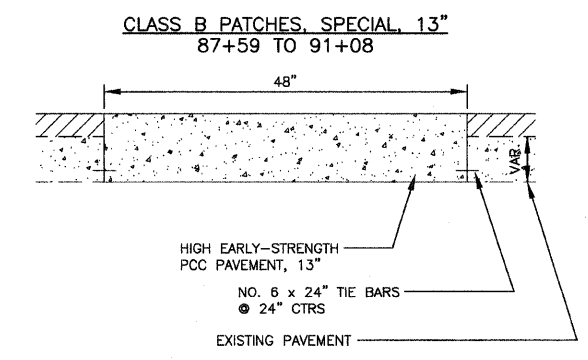
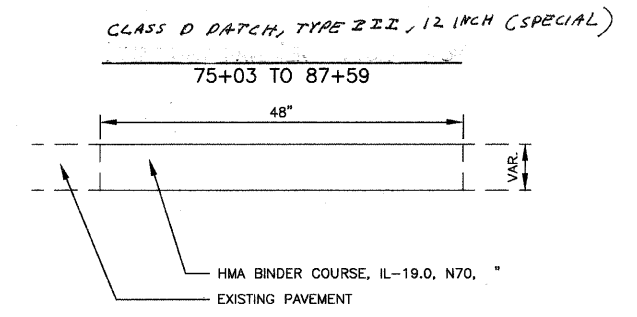
IDOT STAGE I

- A. INSTALLATION OF WATER MAIN FROM CONNECTION TO EXISTING WATER MAIN AT STA. 73+45±, LT. TO CONNECTION TO EXISTING WATER MAIN AT STA. 105+55±, RT.
 WITHIN IDOT STAGE I CONSTRUCTION LIMITS FROM STA. 75+03, RT. TO STA. 105+55, RT.
 IDOT STANDARD 701602 FOR DAILY LANE CLOSURES FOR CONNECTIONS AT STA. 73+45±, LT, STA. 86+41±, LT. AND STA. 90+62±, LT.
 IDOT STANDARD 701602 FOR DAILY LANE CLOSURES ACROSS S. 8TH AVENUE, S. 9TH AVENUE, S. 10TH AVENUE, S. 11TH AVENUE AND S. 13TH AVENUE
- PATCHING: CLASS C, 12" STA. 73+45±, LT TO STA. 73+75±, LT
 TEMPORARY, 8" S. 8TH AVE., S. 9TH AVE.
 S. 10TH AVE., N. 12TH AVE.
 S. 13TH AVE., N. 13TH AVE.

- B. INSTALLATION OF WATER MAIN LATERALS AND SERVICES, VALVE VAULT REMOVALS, CUT AND CAPS AND CONNECTIONS FROM STA. 73+45±, LT. TO STA. 105+55±, RT.
 WITHIN IDOT STAGE I CONSTRUCTION LIMITS FROM STA. 75+03, RT. TO STA. 105+55, RT.
 IDOT STANDARD 701602 FOR DAILY LANE CLOSURES FOR CONNECTIONS, REMOVALS, AND CUT AND CAPS.
- PATCHING: CLASS C, 12" STA. 73+50±, LT (REM.)
 STA. 74+35±, LT. (REM.)
 CLASS B, 13" STA. 102+95±, LT. (REM.)

IDOT STAGE II

- A. INSTALL WATER MAIN FROM DUNHAM TO ST. CHARLES PLACE.



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 Jun 17, 2011 10:11

FILE NAME =	USER NAME =	DESIGNED — LB	REVISED — 9-30-2010
		DRAWN — AC	REVISED — 10-15-2010
PLOT SCALE =		CHECKED — AS	REVISED — 1-10-2011
PLOT DATE =		DATE — 9-17-2010	REVISED — 12-2-2011

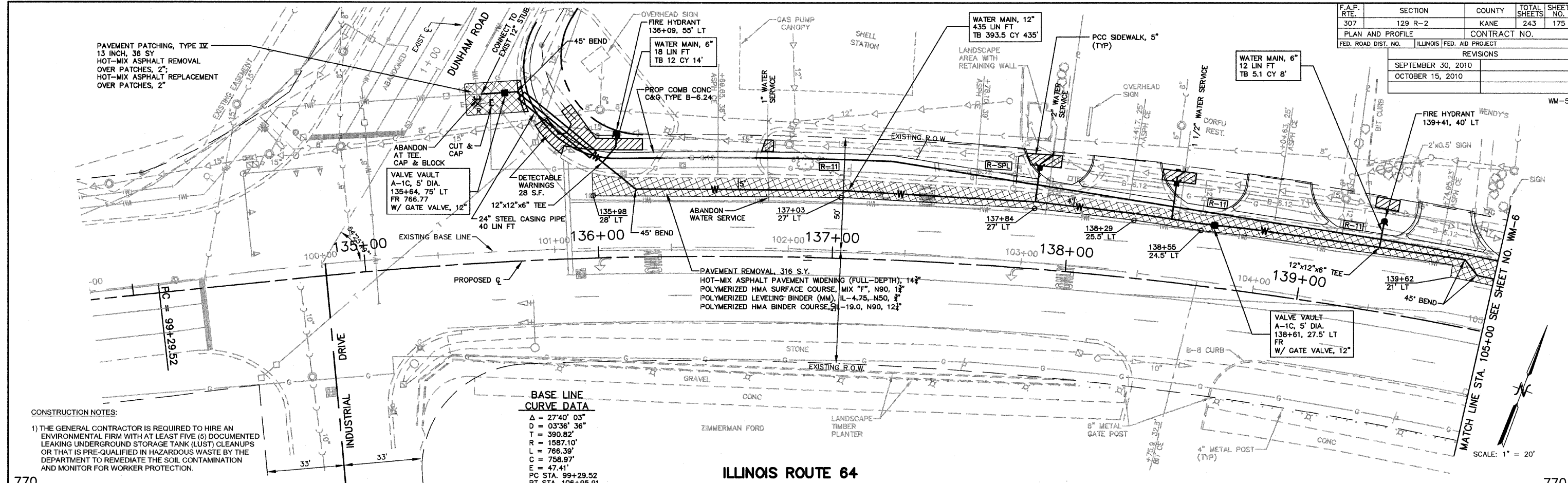
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ILLINOIS RTE 64 SANITARY SEWER AND WATER MAIN IMPROVEMENTS
 STAGING AND PATCHING PLAN**

SCALE: N.T.S.	SHEET NO. OF SHEETS	STA. ___+___ TO STA. ___+___
---------------	---------------------	------------------------------

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129 R-2	KANE	243	WM-4
CITY OF ST. CHARLES		CONTRACT NO. 62195		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129 R-2	KANE	243	175
PLAN AND PROFILE		CONTRACT NO.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
REVISIONS				
SEPTEMBER 30, 2010				
OCTOBER 15, 2010				



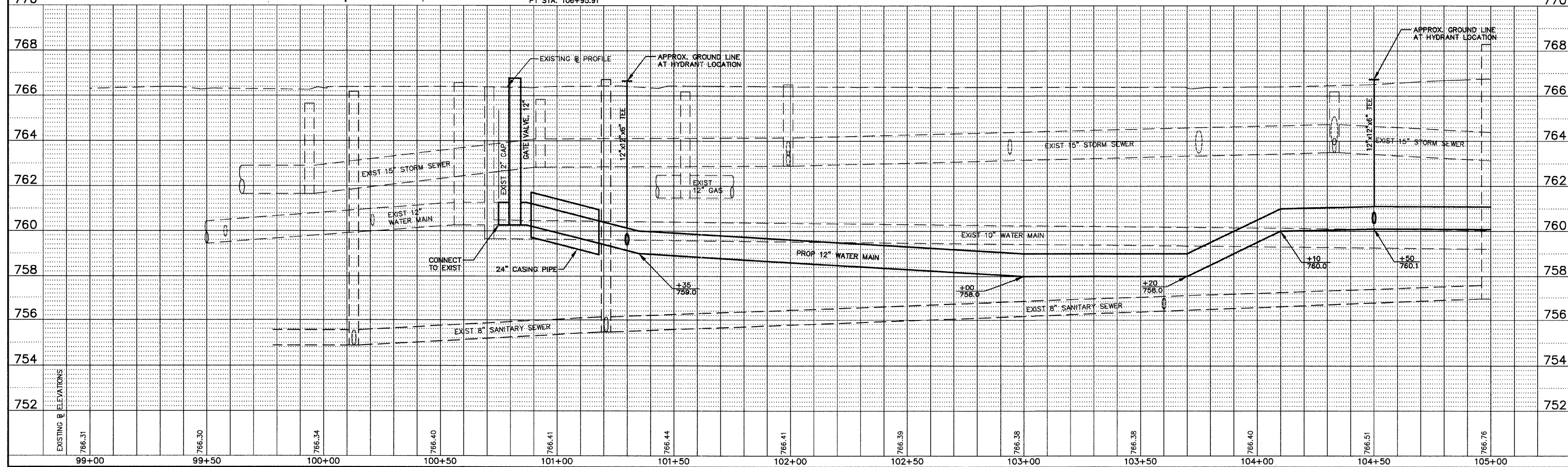
CONSTRUCTION NOTES:

1) THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK (LUST) CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

BASE LINE CURVE DATA

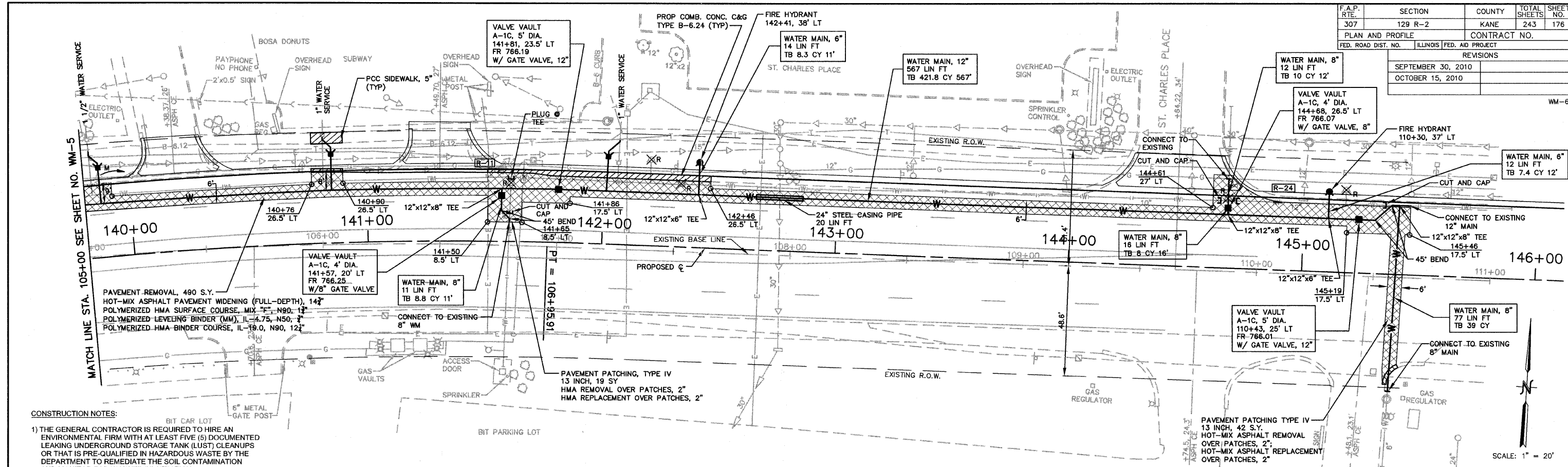
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D	= 03'36" 36"
T	= 390.82'
R	= 1587.10'
L	= 766.39'
E	= 758.97'
F	= 47.41'
PC STA.	99+29.52
PT STA.	106+95.91

ILLINOIS ROUTE 64



EXISTING B ELEVATIONS	766.31	766.30	766.34	766.40	766.41	766.44	766.41	766.39	766.38	766.38	766.40	766.51	766.76
	99+00	99+50	100+00	100+50	101+00	101+50	102+00	102+50	103+00	103+50	104+00	104+50	105+00

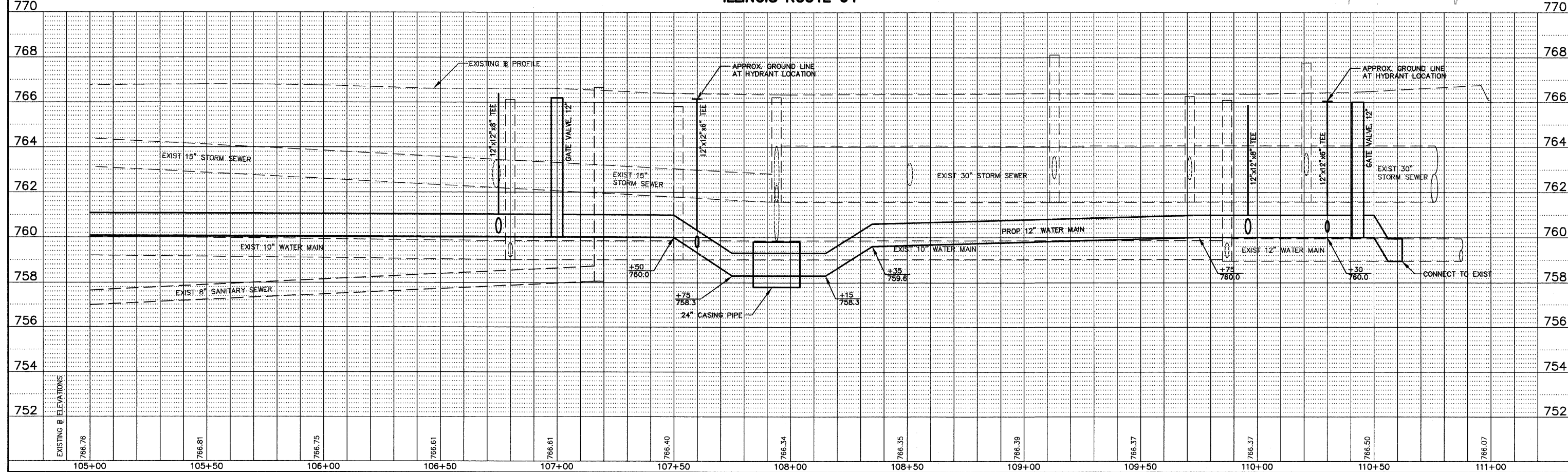
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129 R-2	KANE	243	176
PLAN AND PROFILE		CONTRACT NO.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
REVISIONS				
SEPTEMBER 30, 2010				
OCTOBER 15, 2010				



CONSTRUCTION NOTES:

1) THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK (LUST) CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

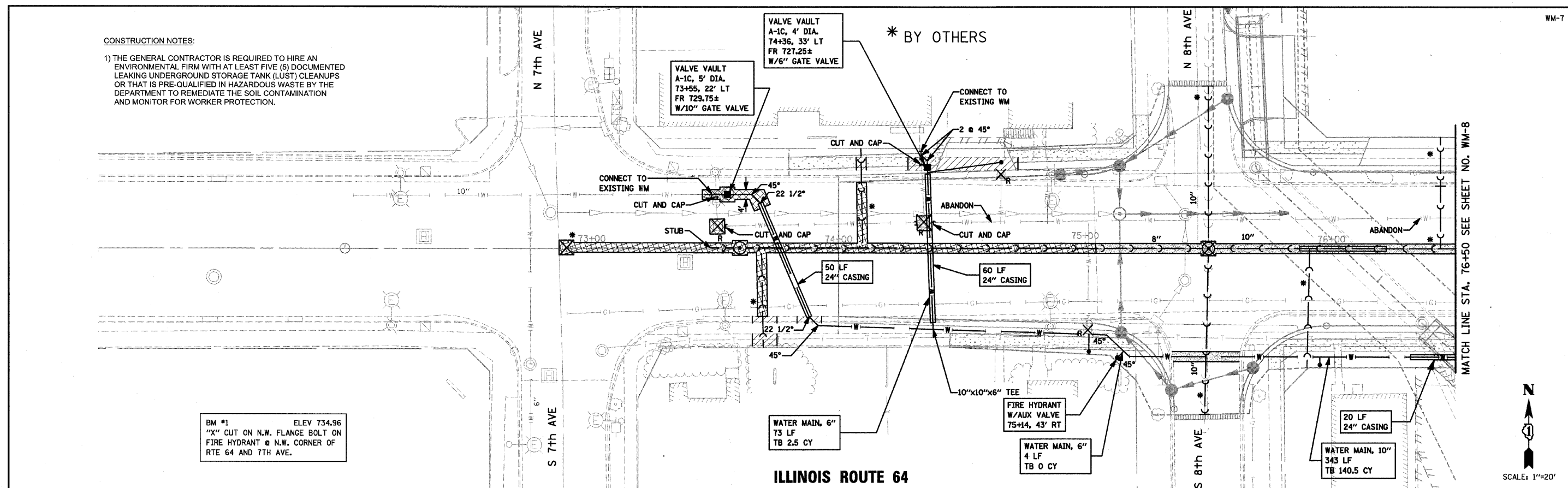
ILLINOIS ROUTE 64



EXISTING ELEVATIONS	766.76	766.81	766.75	766.61	766.61	766.40	766.34	766.35	766.39	766.37	766.37	766.50	766.07
	105+00	105+50	106+00	106+50	107+00	107+50	108+00	108+50	109+00	109+50	110+00	110+50	111+00

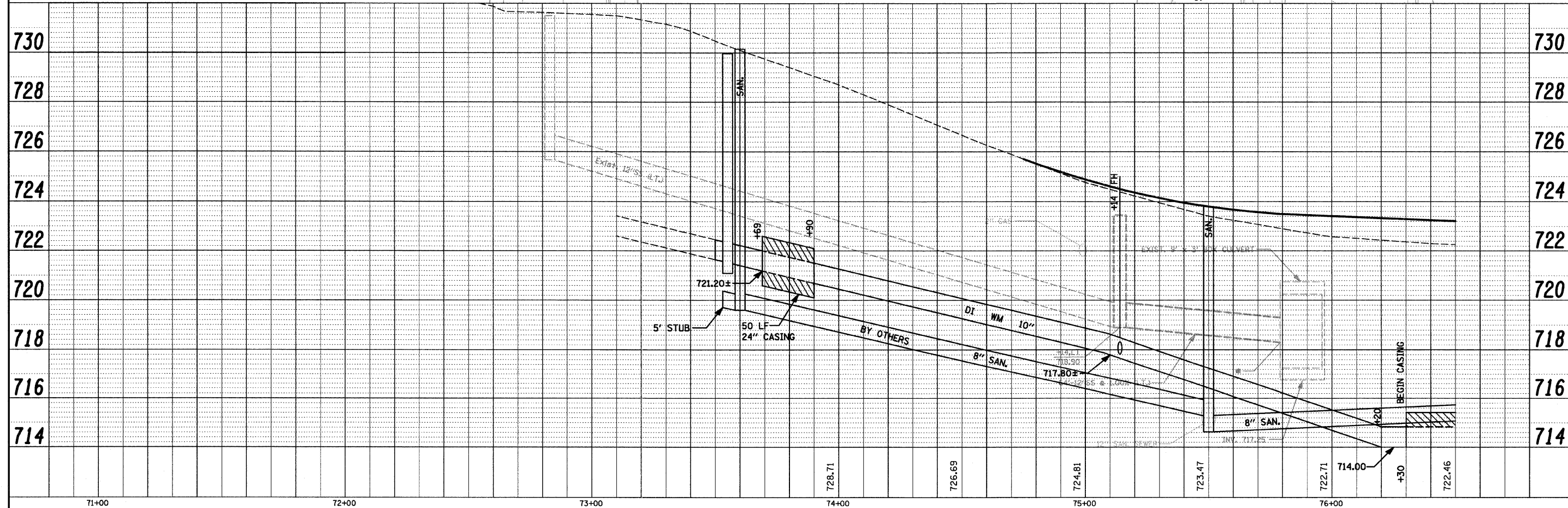
CONSTRUCTION NOTES:

1) THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK (LUST) CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.



DATE	BY

DATE	BY

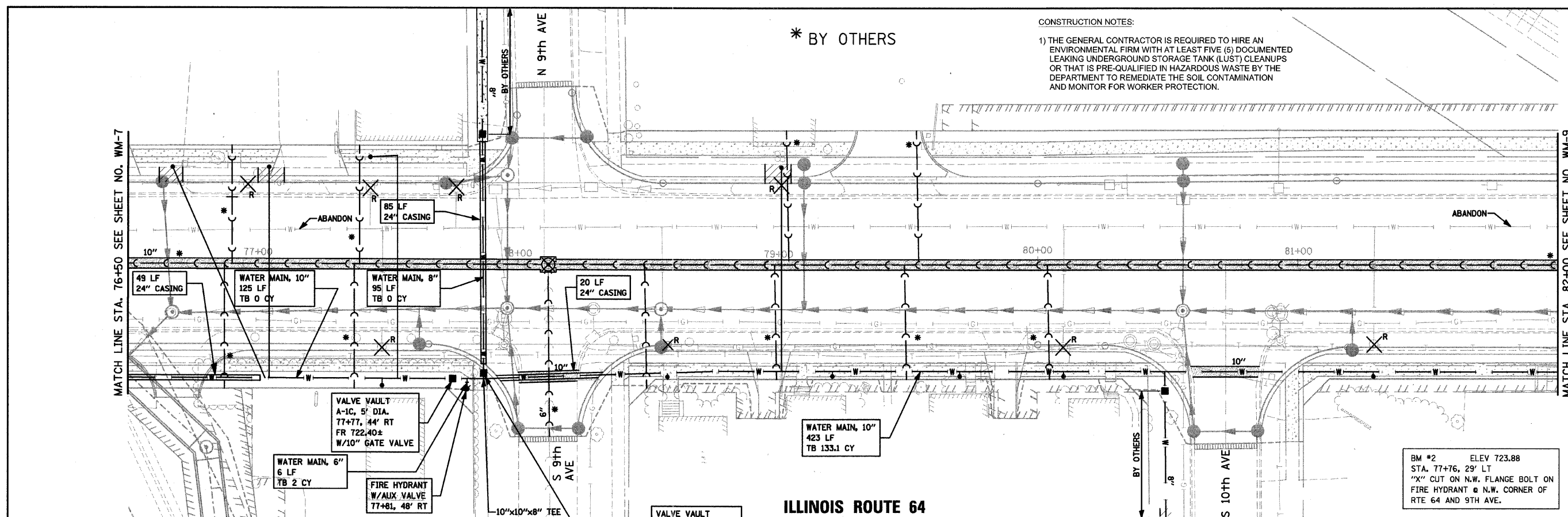


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PLOT SCALE = \$SCALE\$	CHECKED - AS	REVISOR - 10-15-2010	REVISOR - 1-10-2011				
PLOT DATE = \$DATE\$	DATE - 9-17-2010	REVISOR -	REVISOR -				
SCALE: 1"=20' SHEET NO. OF SHEETS STA. 73+00 TO STA. 76+50				CONTRACT NO. 62195 TOTAL SHEETS 243 SHEET NO. 177			

* BY OTHERS

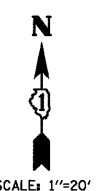
CONSTRUCTION NOTES:
 1) THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK (LUST) CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

PLAN	SURVEYED	BY	DATE
	ALIGNED		
	CHECKED		
	RT. OF WAY		
	CHECKED		
	NO.		
	CADD FILE NAME		

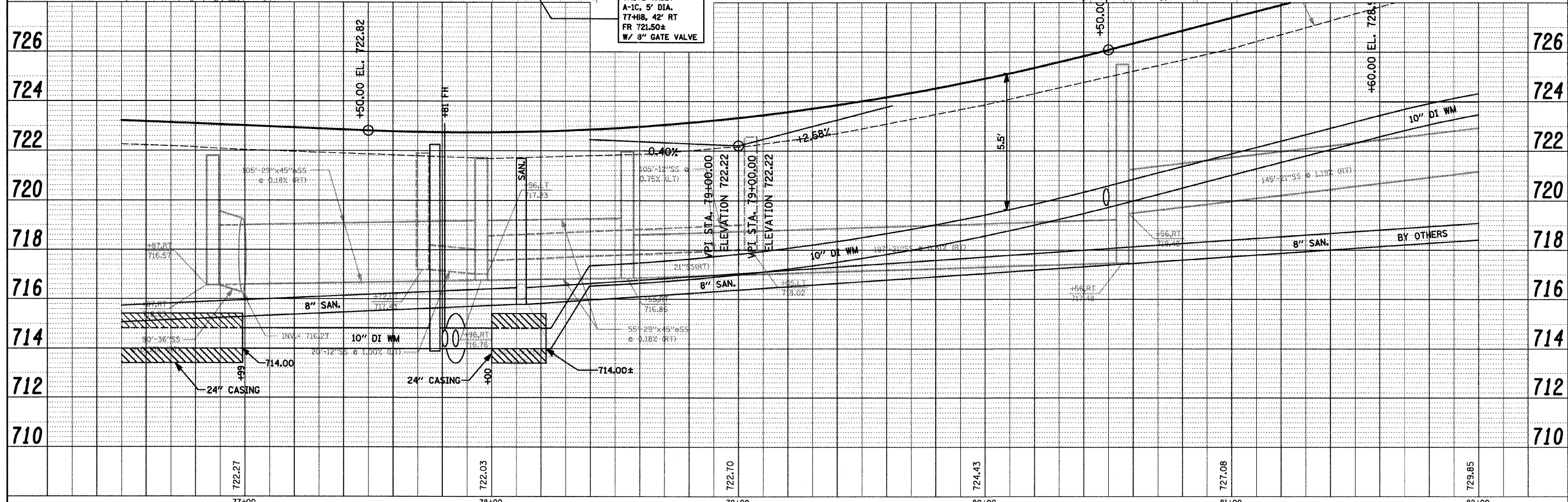


MATCH LINE STA. 76+50 SEE SHEET NO. WM-7

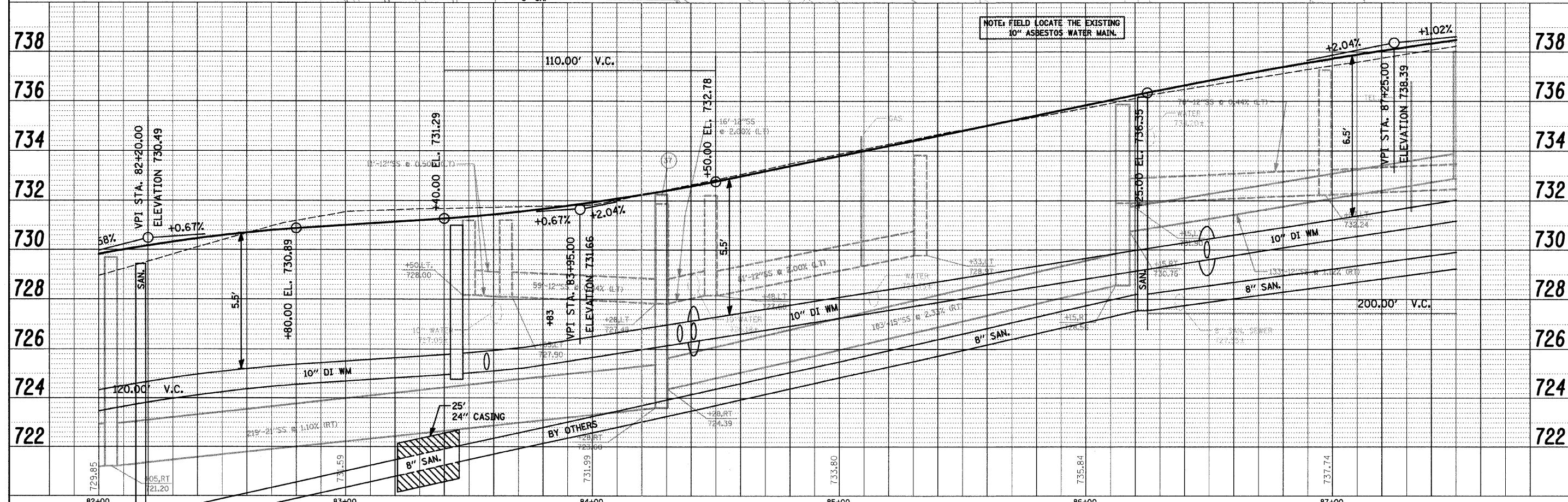
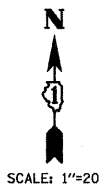
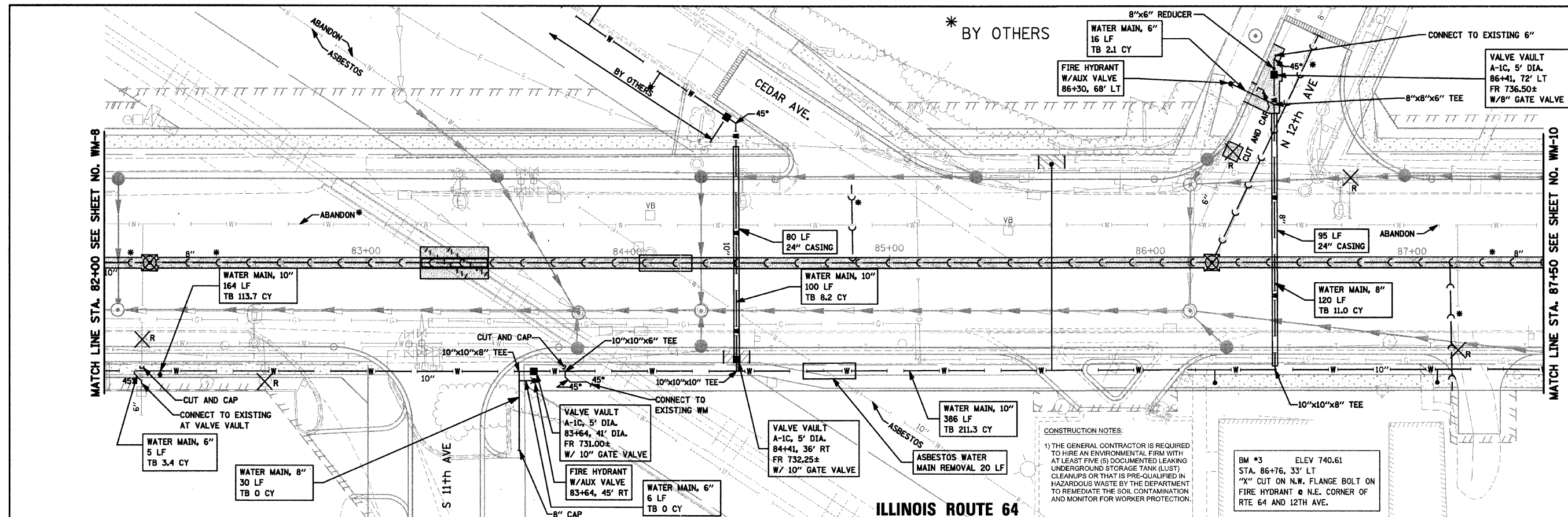
MATCH LINE STA. 82+00 SEE SHEET NO. WM-9



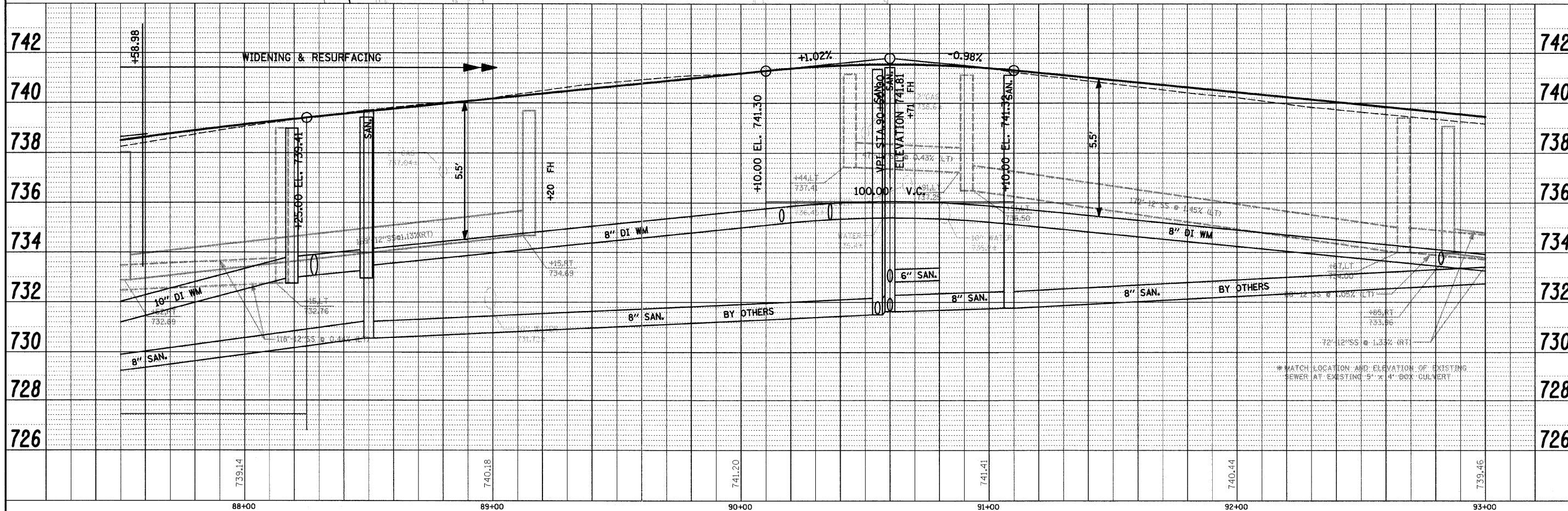
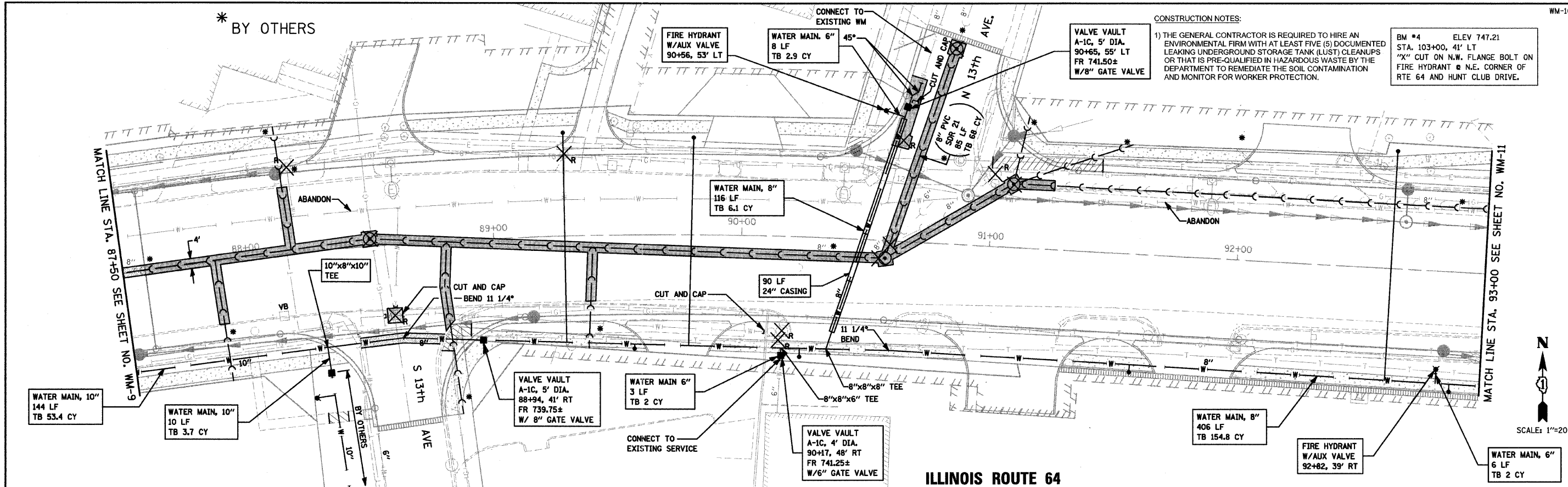
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	GRADES		
	CHECKED		
	BLK. NOTED		
	STRUCTURE		
	NOTATIONS		
	CHFD		



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PLOT DATE = #DATE#	DATE - 9-17-2010	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT				



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PLOT DATE = #DATE#	DATE - 9-17-2010	REVISOR -	ILLINOIS FED. AID PROJECT								



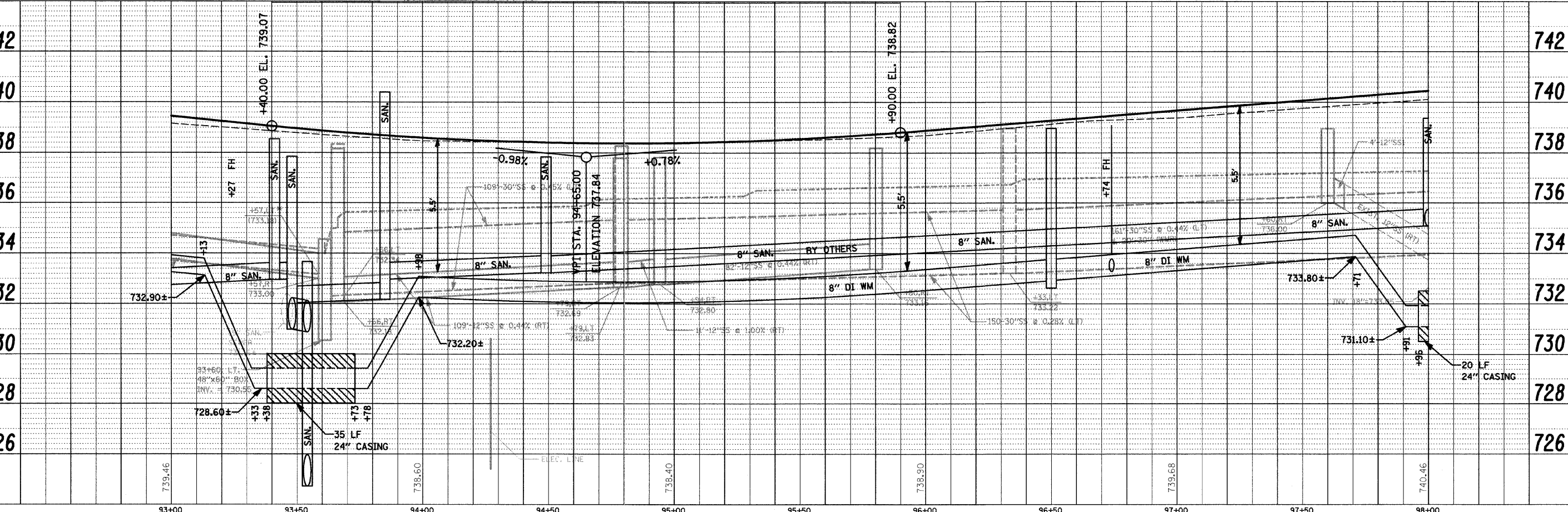
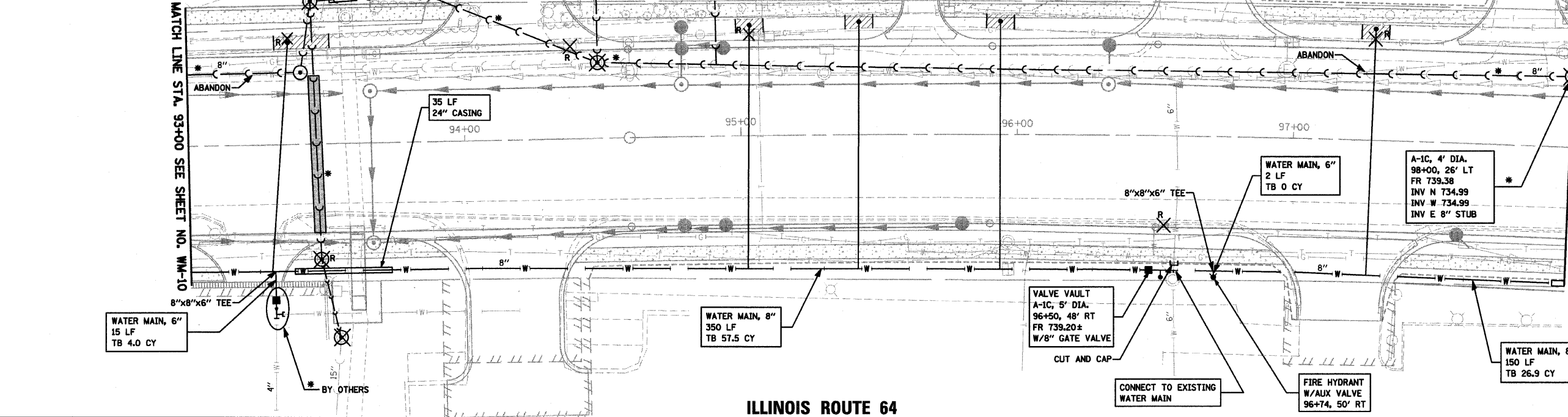
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BY	
PLAN	
NO.	
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NO.	

DATE	
BY	
PROFILE	
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NO.	
NO.	
NO.	
NO.	

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PLOT DATE = \$DATE\$	DATE - 9-17-2010	REVISED -	REVISED - 1-10-2011		ILLINOIS FED. AID PROJECT							

CONSTRUCTION NOTES:

1) THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK (LUST) CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.



PLAN

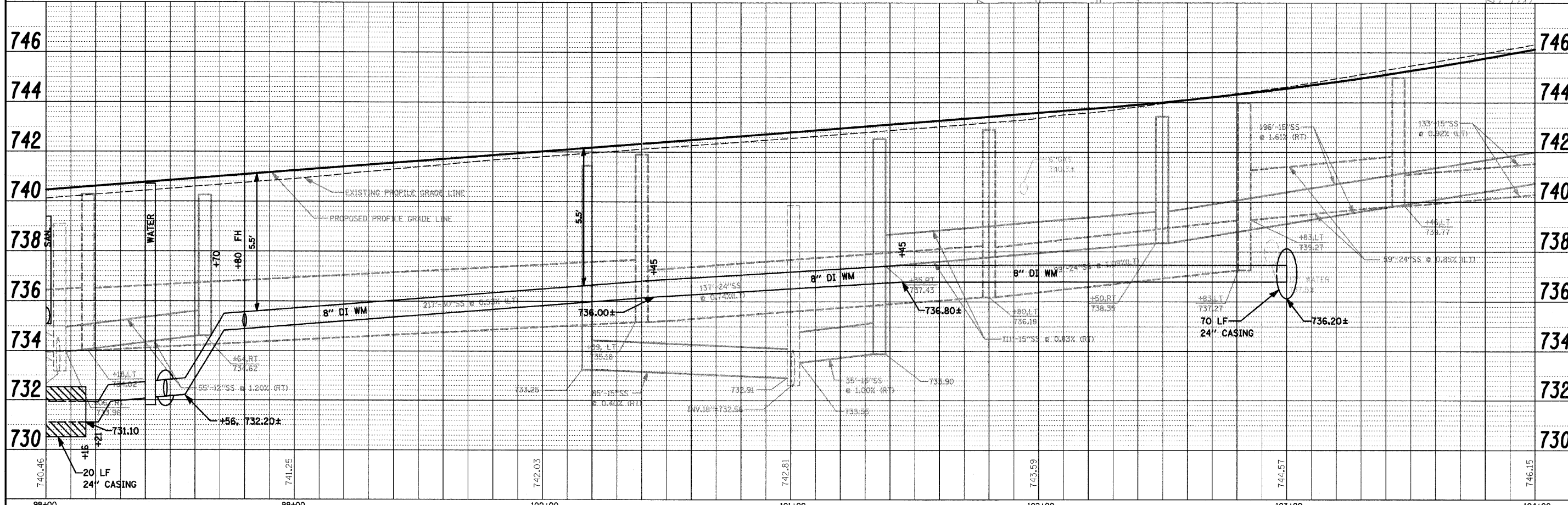
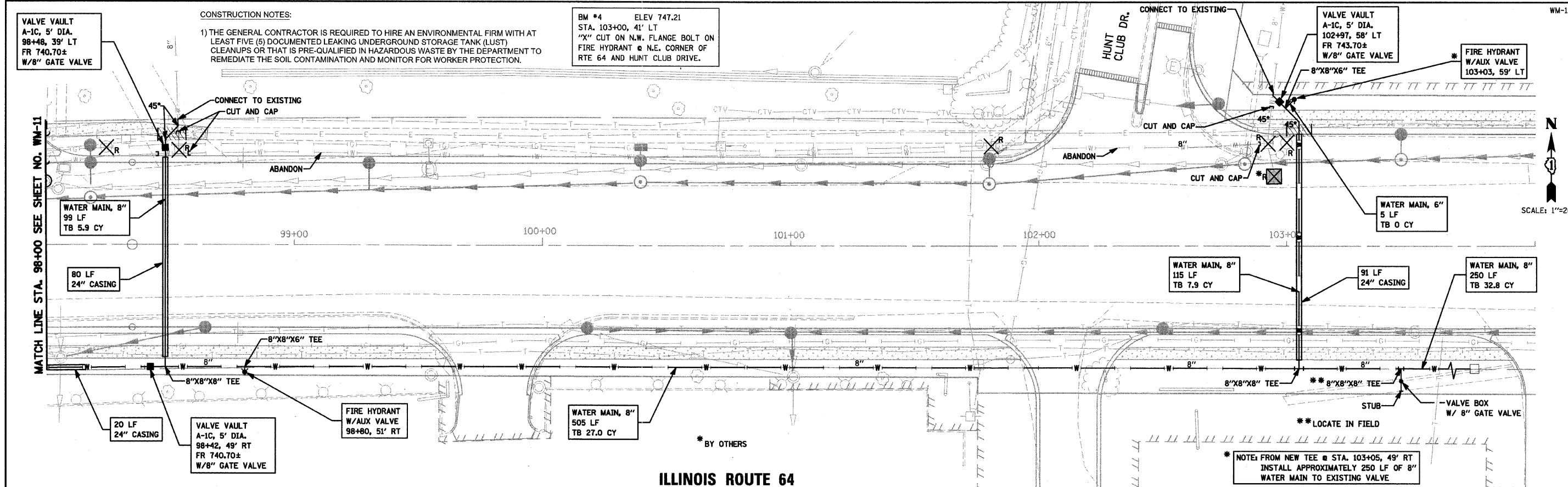
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PROFILE

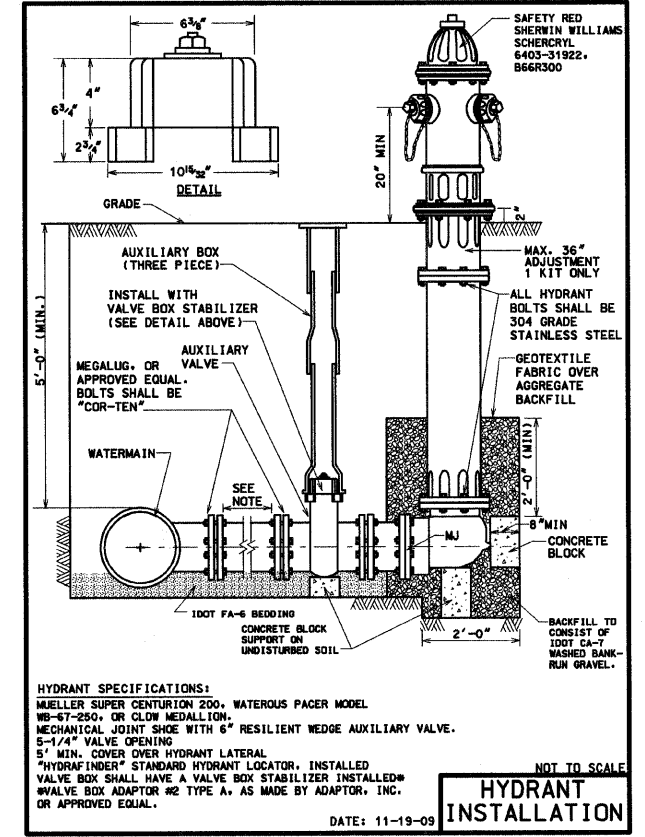
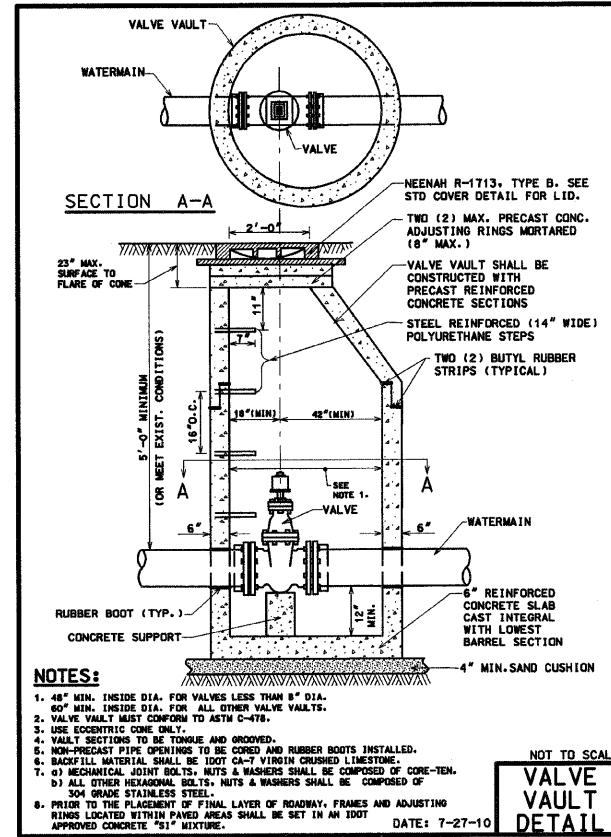
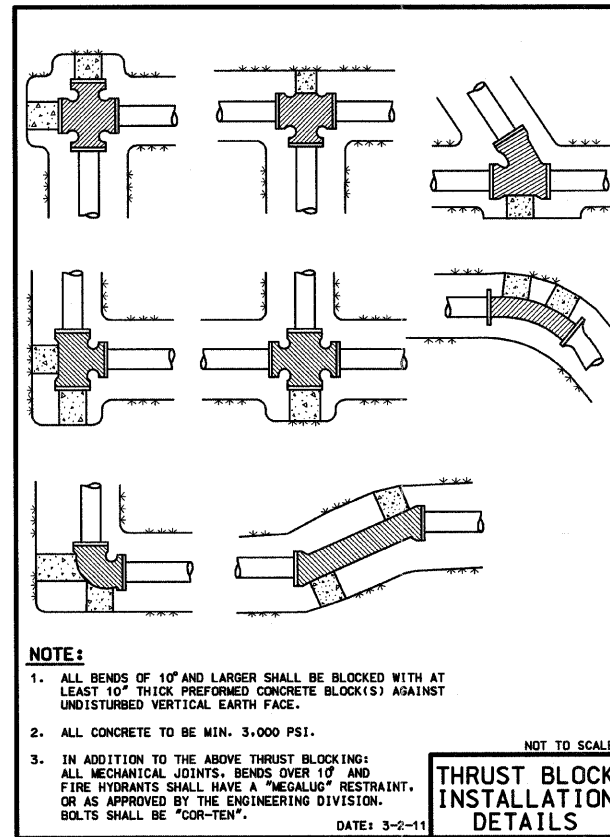
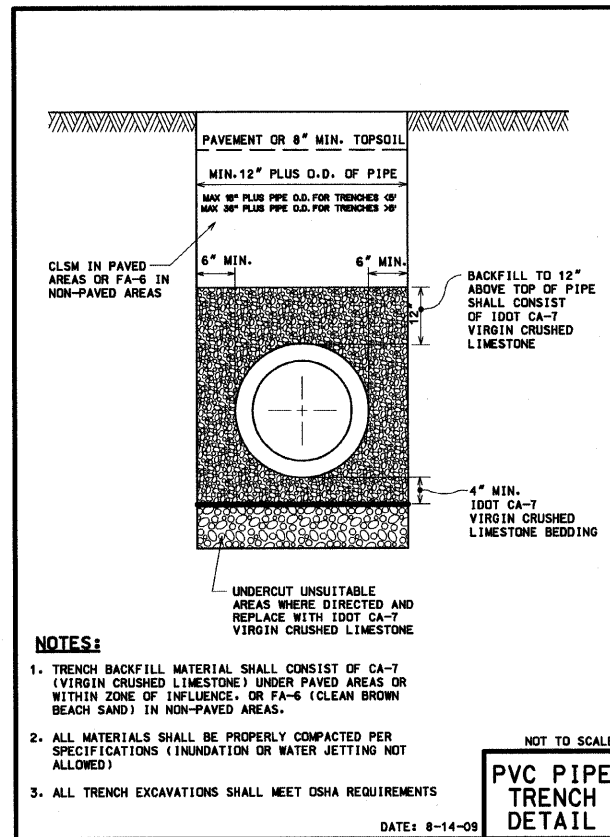
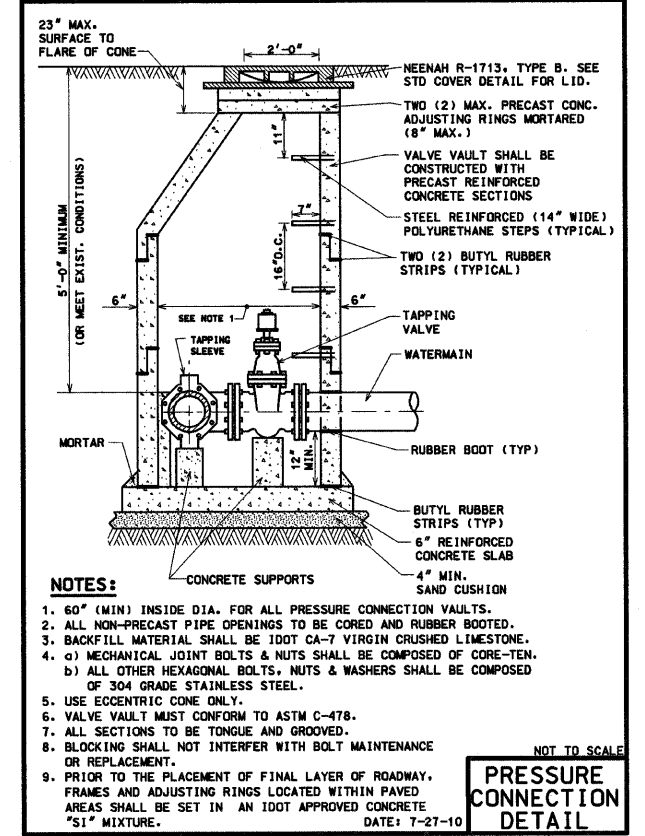
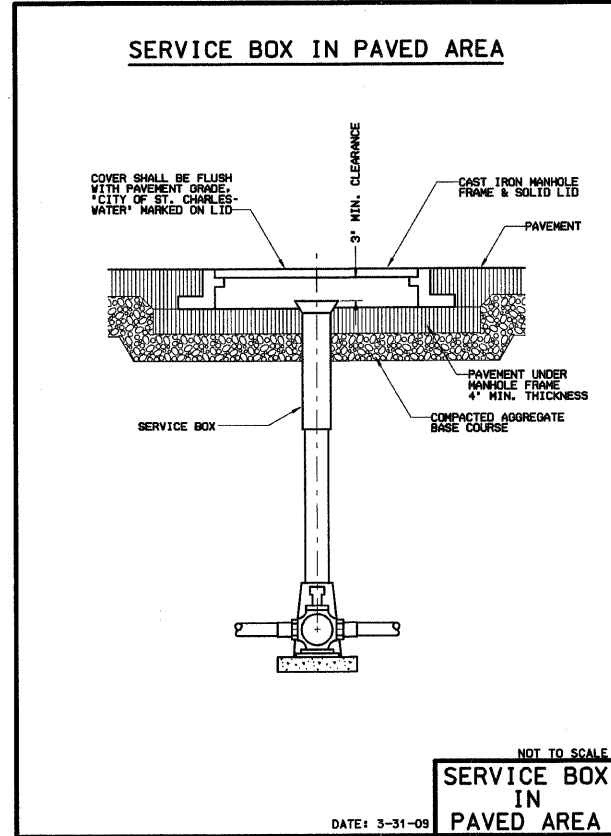
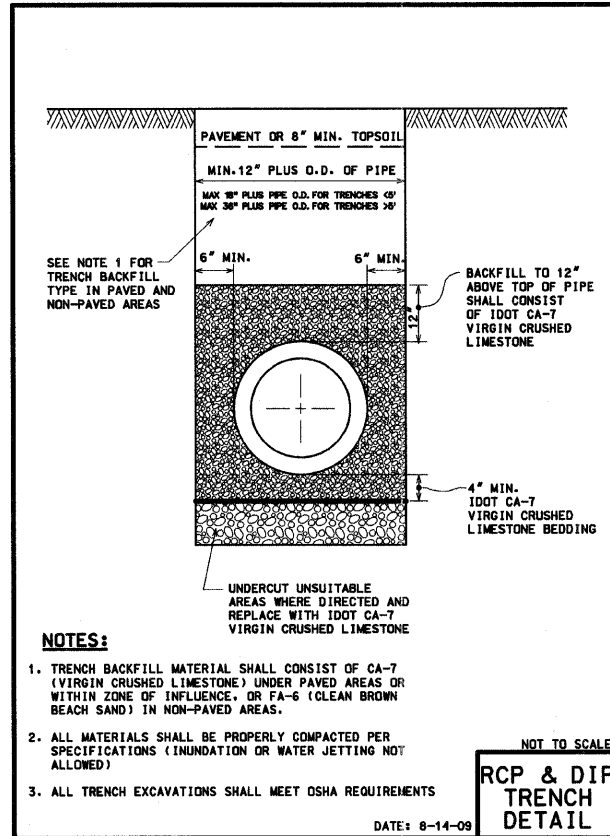
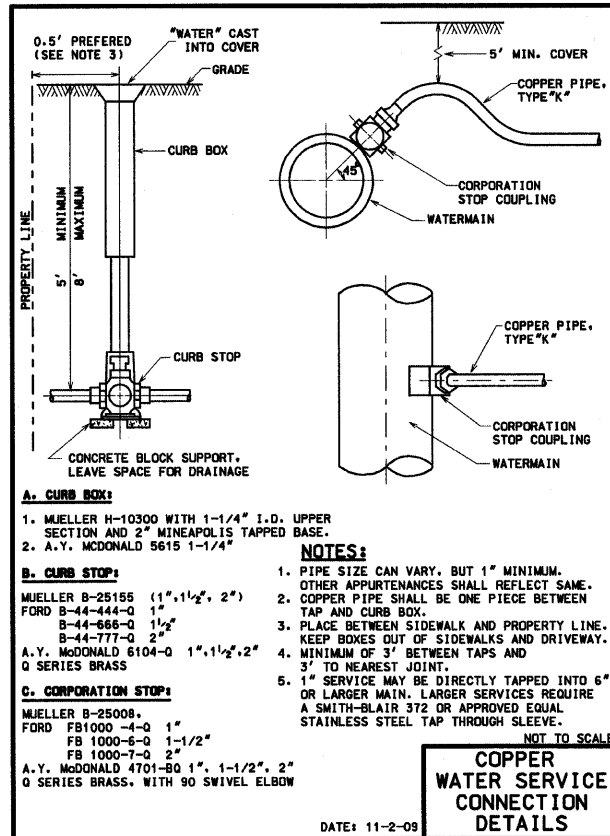
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FILE NAME, USER NAME, DESIGNED, DRAWN, CHECKED, DATE, REVISED, REVISIONS.

SECTION 129 R-2, COUNTY KANE, CITY OF ST. CHARLES, CONTRACT NO. 62195.



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PLOT DATE = #DATE#	DATE - 9-17-2010	REVISOR -						ILLINOIS FED. AID PROJECT			



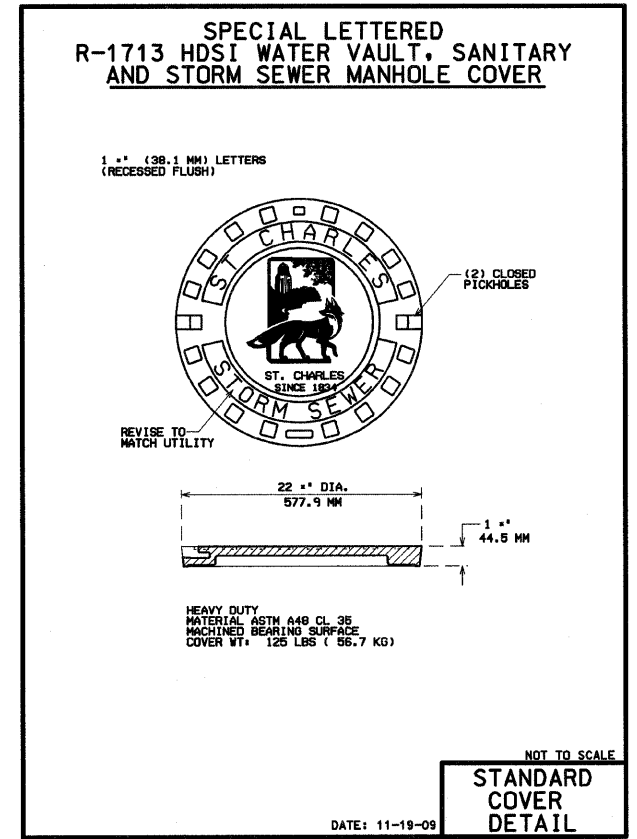
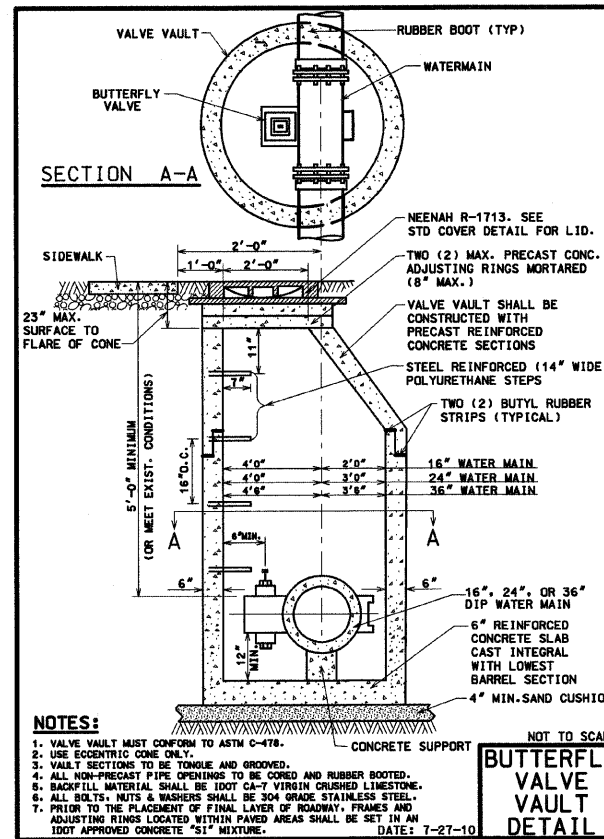
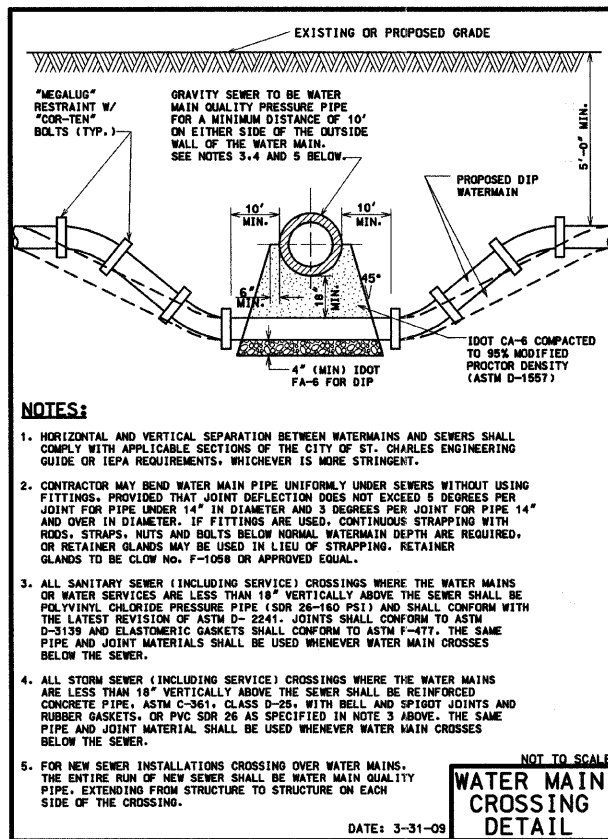
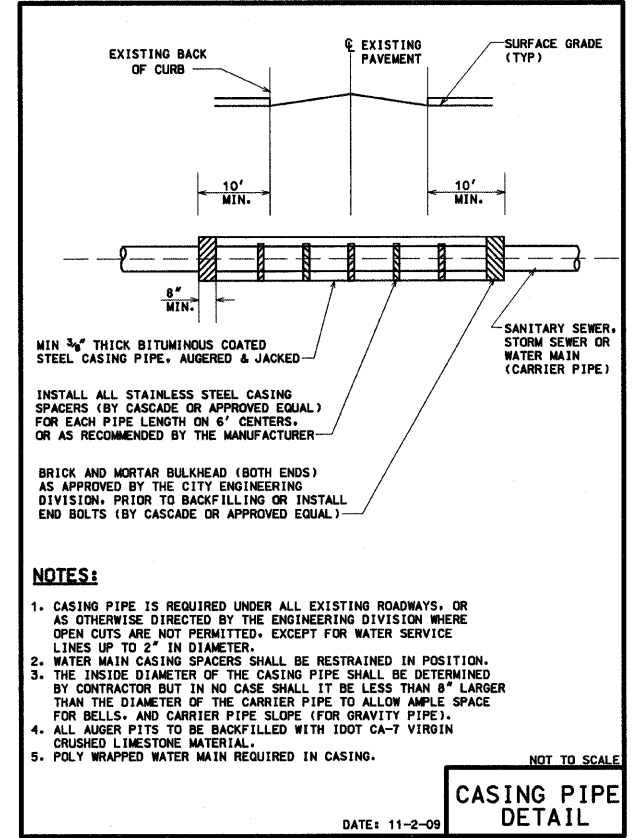
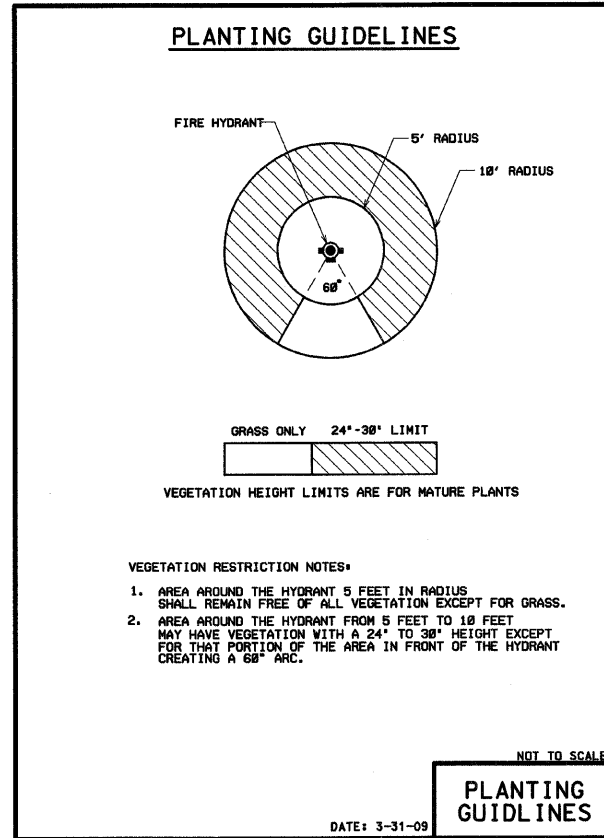
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Minimum Restrained Lengths (in feet) back from both sides of fitting

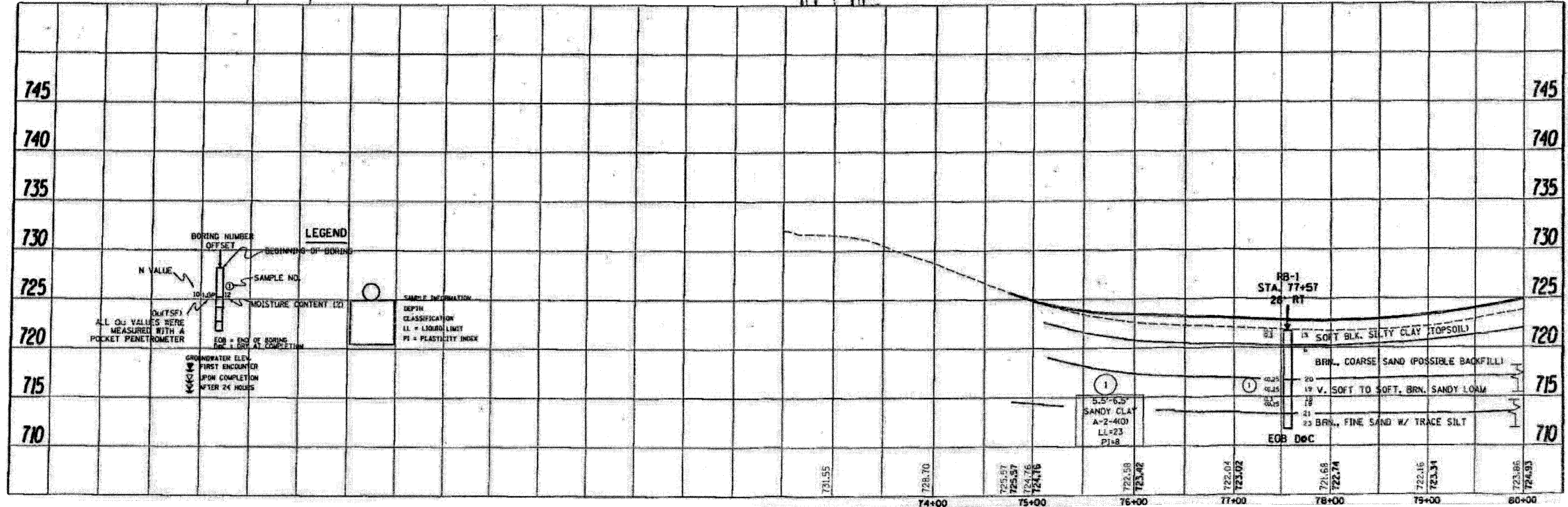
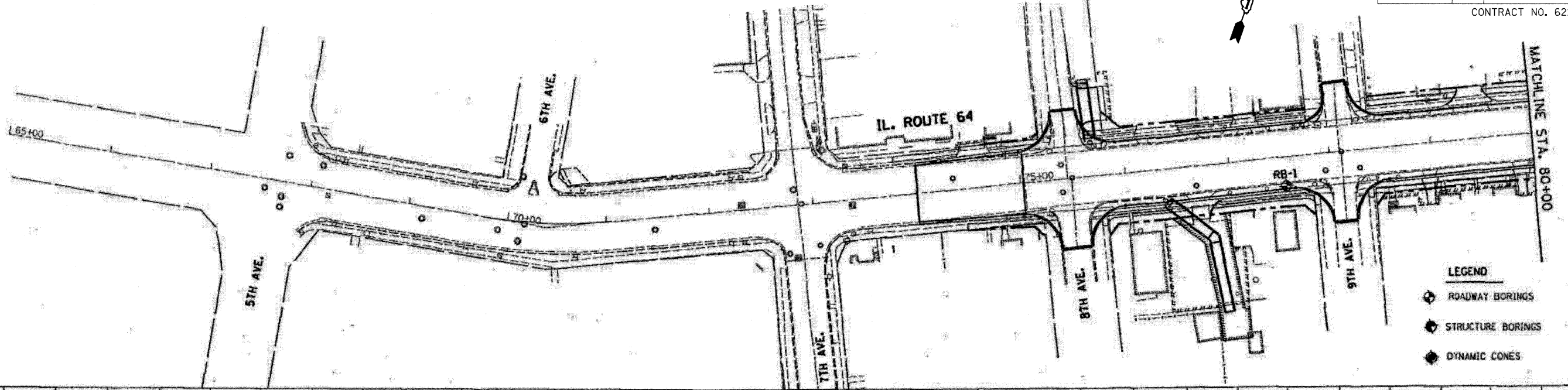
Fitting type/nominal size	4"	6"	8"	10"	12"	16"
90 Degree Bend	17	25	32	38	45	59
45 Degree Bend	7	10	13	16	19	24
22.5 Degree Bend	3	5	6	8	9	12
11.25 Degree Bend	2	2	3	4	4	6
Dead End	39	55	73	87	103	134
Top Side Vertical Offset * (45 Degree)	16	23	30	36	43	55
Bottom Side Vertical Offset * (45 Degree)	4	6	8	10	11	15
Tee Run X Branch **	6" by		1	17		
Tee Run X Branch **	8" by		1	5	34	
Tee Run X Branch **	10" by		1	1	24	49
Tee Run X Branch **	12" by		1	1	15	41
Tee Run X Branch **	16" by		1	1	1	26
Reducer ***	6" by		28			
Reducer ***	8" by		52	30		
Reducer ***	10" by		71	54	29	
Reducer ***	12" by		90	75	55	51
Reducer ***	16" by		123	113	97	94

* Vertical offset with minimum 10' of solid pipe between upper and lower bend.
 ** Tee with MINIMUM 10' solid pipe on both sides of run. Number indicates length of branch to be restrained.
 *** Length back from Large End of Reducer.

WATER MAIN RESTRAINT
DATE: 3-31-09



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	185
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62195				



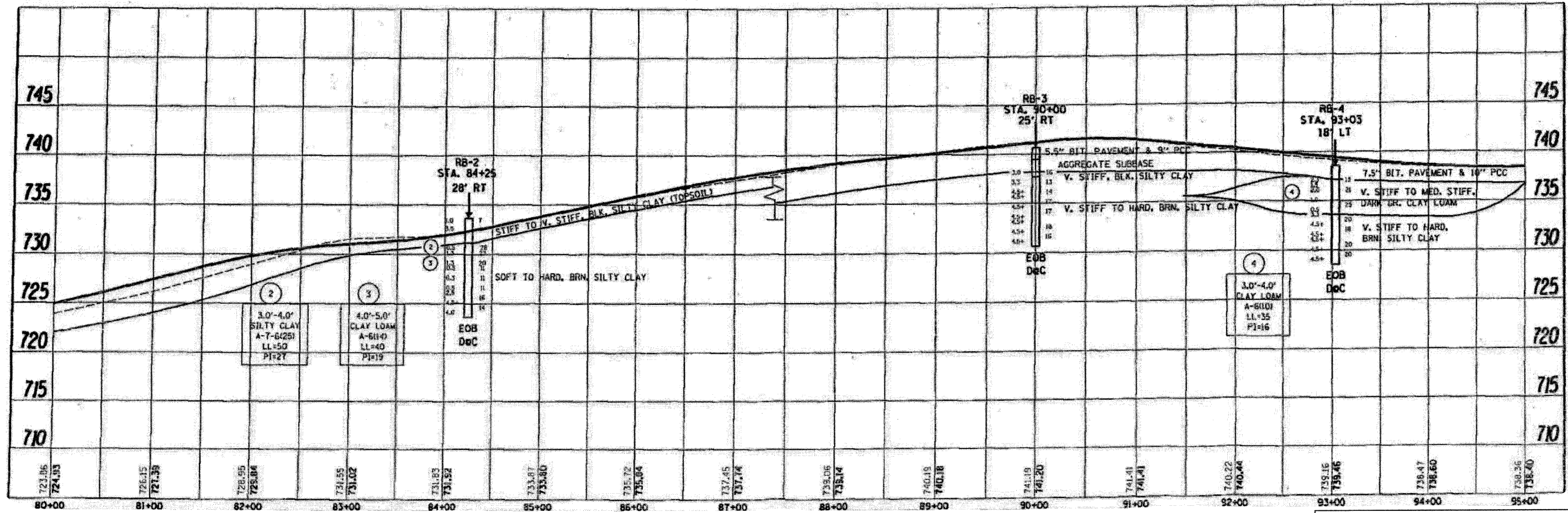
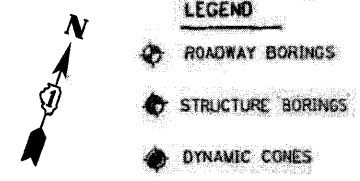
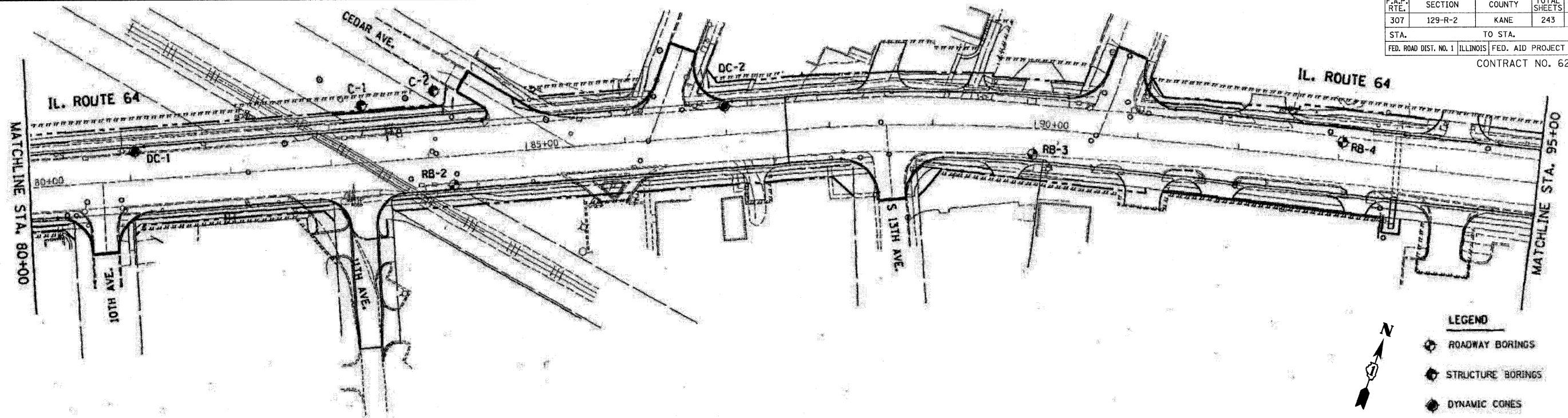
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 PLOT SCALE = 5/8" = 1' / IN.

CR & A
 CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 1-312-372-2023 FAX: 1-312-372-5274

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SOIL REPORT PLAN SHEETS
 ILLINOIS ROUTE 64
 SCALE: 1" = 50'
 DATE: AUGUST 10, 2011
 DRAWN BY: B.K.
 CHECKED BY: S.J.P.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	186
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62195				



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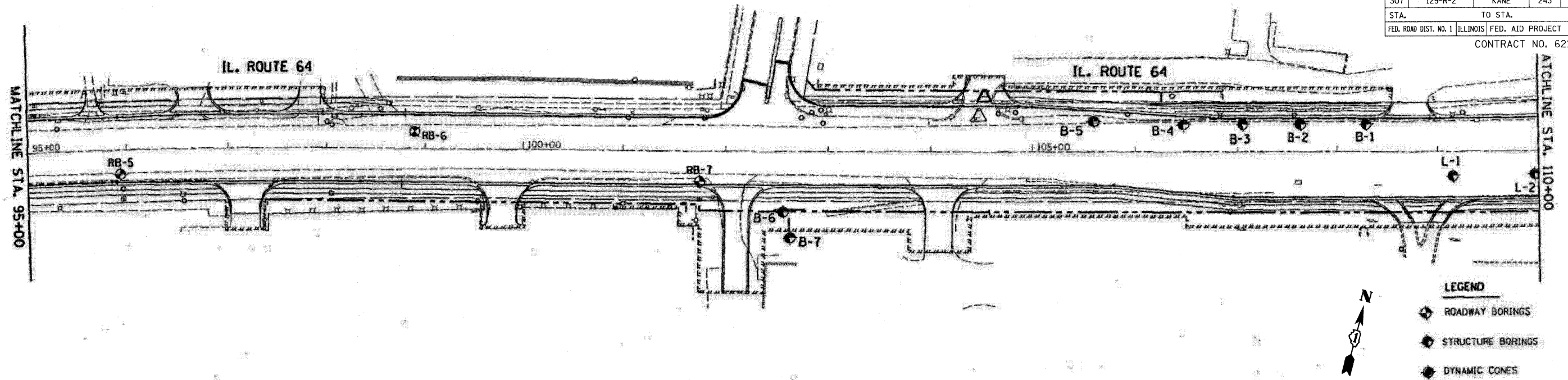
CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 1-312-372-2023 FAX: 1-312-372-5274

REVISIONS	
NAME	DATE

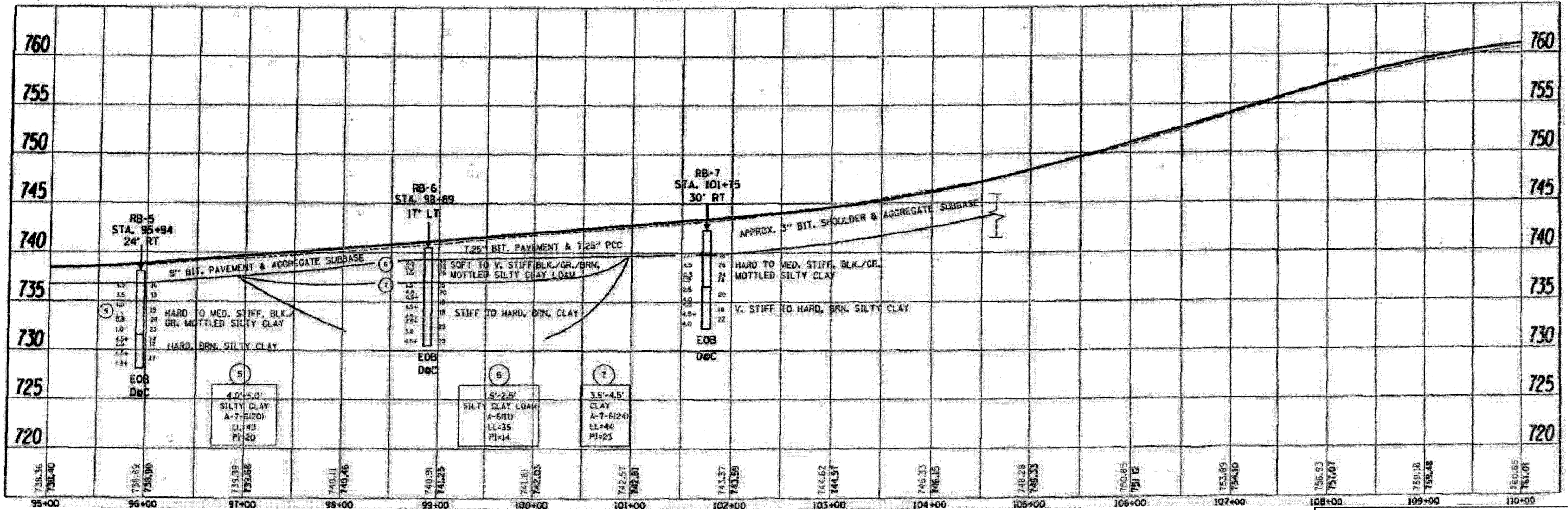
ILLINOIS DEPARTMENT OF TRANSPORTATION
 SOIL REPORT PLAN SHEETS
 ILLINOIS ROUTE 64
 SCALE: 1" = 50'
 DATE: AUGUST 10, 2011
 DRAWN BY B.K.
 CHECKED BY S.J.P.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	187
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62195



- LEGEND**
- ◆ ROADWAY BORINGS
 - ◆ STRUCTURE BORINGS
 - ◆ DYNAMIC CONES



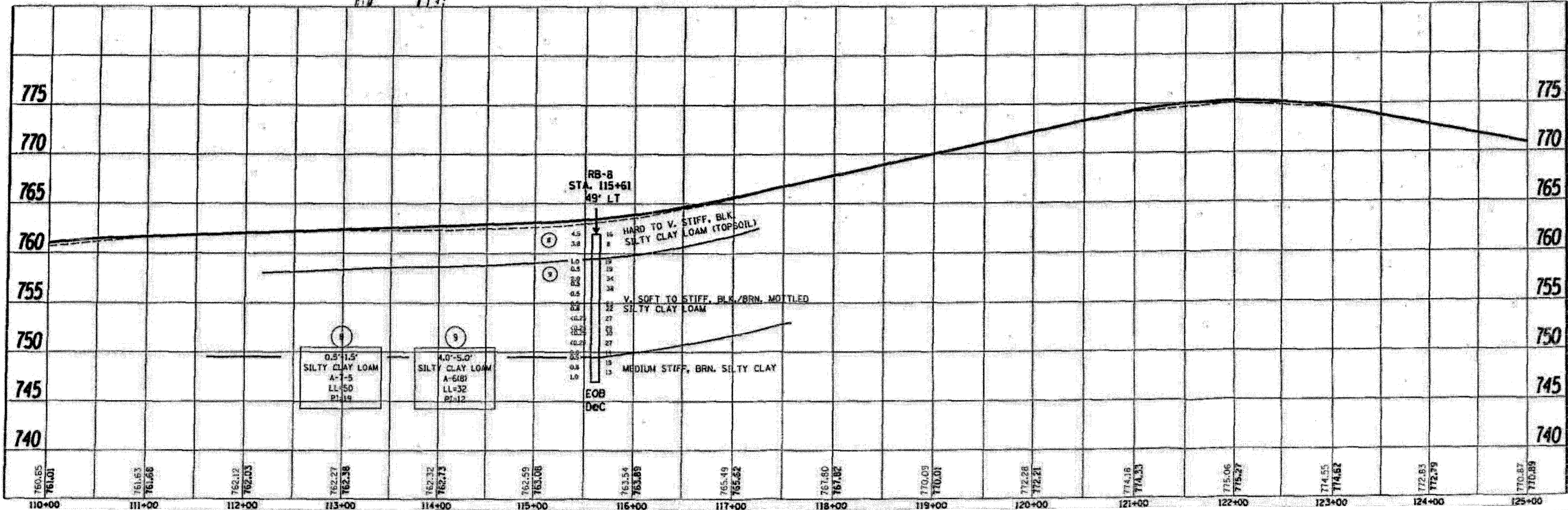
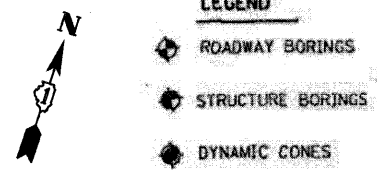
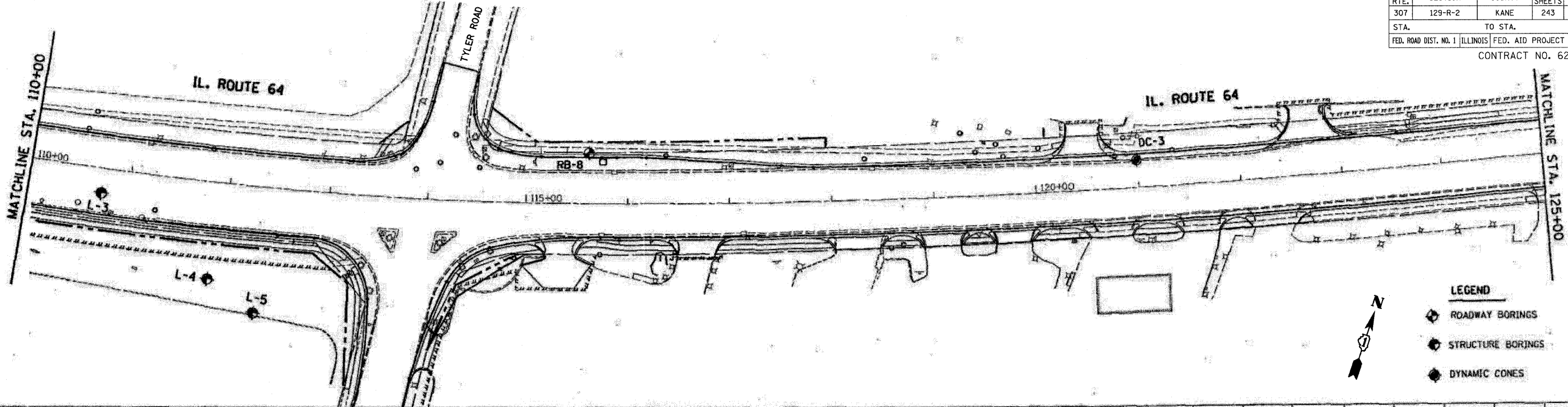
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CR & A
 CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 1-312-372-2023 FAX: 1-312-372-5274

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SOIL REPORT PLAN SHEETS
 ILLINOIS ROUTE 64
 SCALE: 1" = 50'
 DATE: AUGUST 10, 2011
 DRAWN BY B.K.
 CHECKED BY S.J.P.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	188
STA. 110+00		TO STA. 125+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 62195				



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 PLOT SCALE = 50/2000000 of / IN.

CR & A
 CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 1-312-372-2023 FAX: 1-312-372-5274

REVISIONS	
NAME	DATE

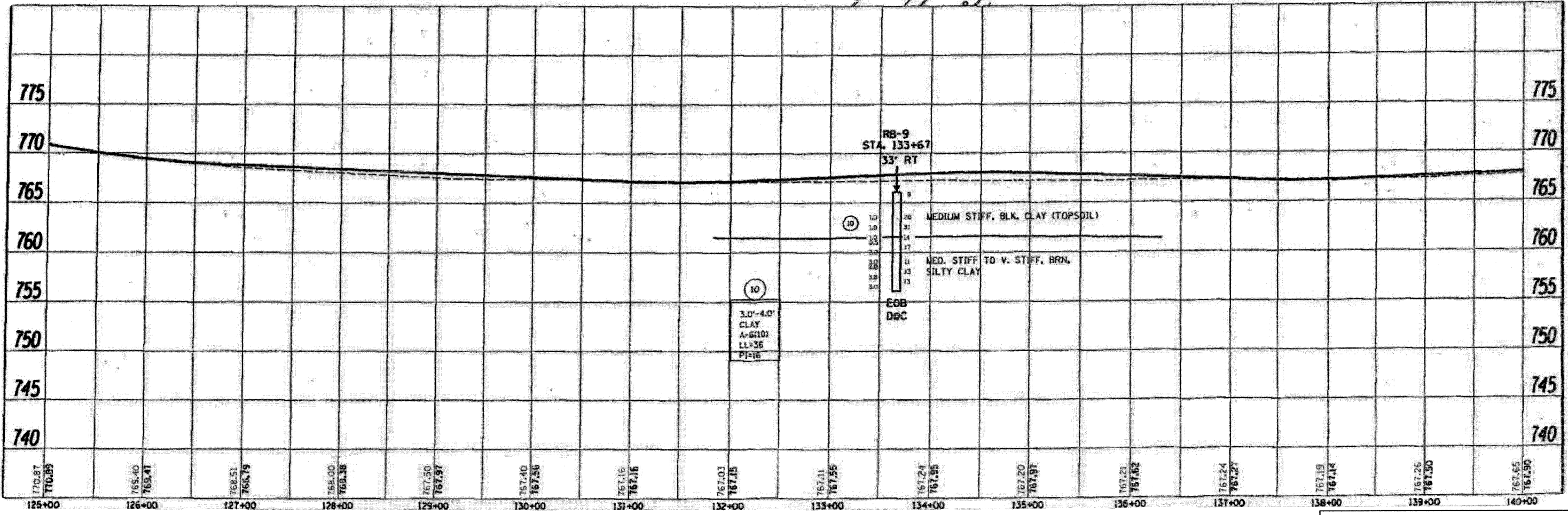
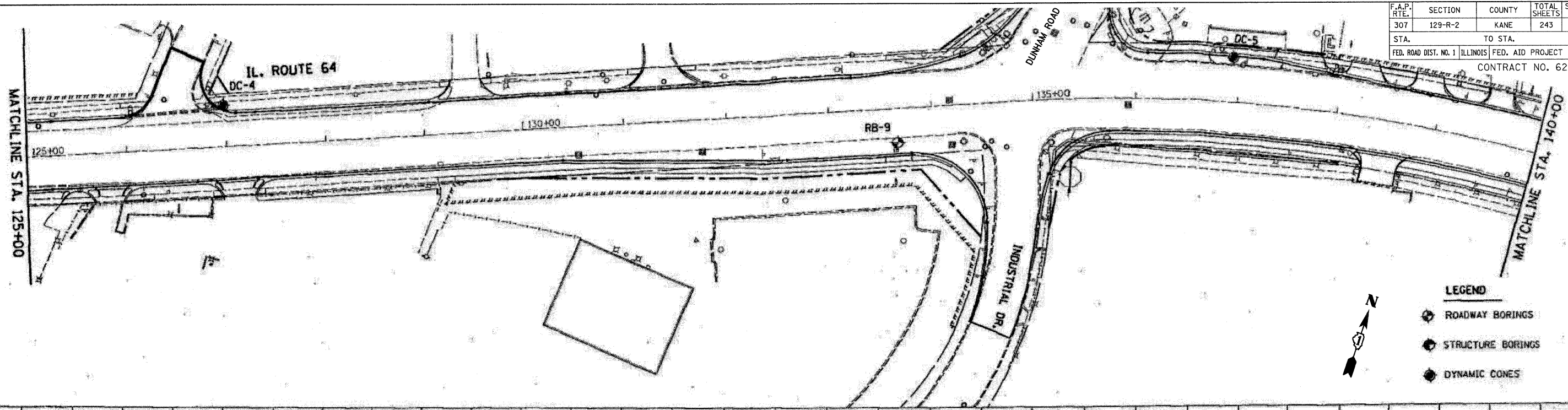
ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL REPORT PLAN SHEETS
 ILLINOIS ROUTE 64

SCALE: 1" = 50'
 DATE: AUGUST 10, 2011

DRAWN BY B.K.
 CHECKED BY S.J.P.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	189
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 62195	



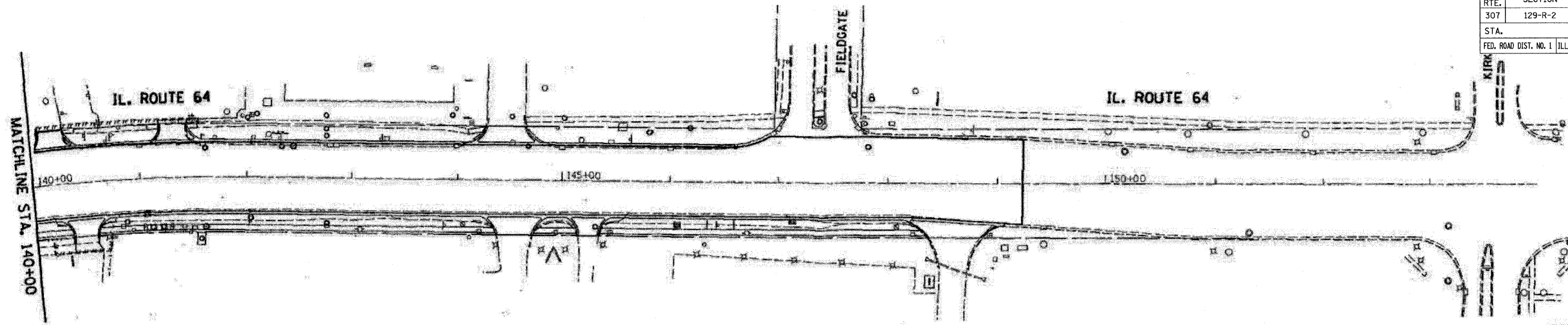
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CR & A
 CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 1-312-372-2023 FAX: 1-312-372-5274

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SOIL REPORT PLAN SHEETS
 ILLINOIS ROUTE 64
 SCALE: 1" = 50'
 DATE: AUGUST 10, 2011
 DRAWN BY B.K.
 CHECKED BY S.J.P.

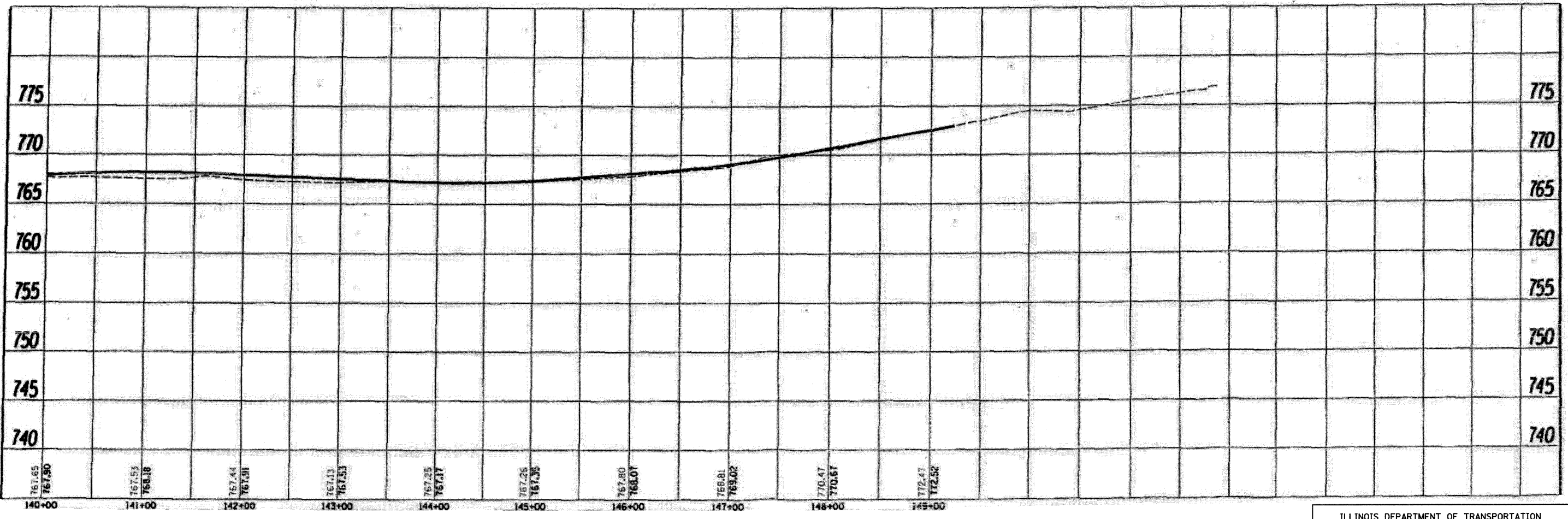
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	190
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT	
CONTRACT NO. 62195				



LEGEND

- ROADWAY BORINGS
- STRUCTURE BORINGS
- DYNAMIC CONES

N



FILE NAME = D:\62195\ant-sol\62.dgn
 PLOT DATE = 9/12/2011
 PLOT SCALE = 50.000000 sf / in.

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 1-312-372-2023 FAX: 1-312-372-5274

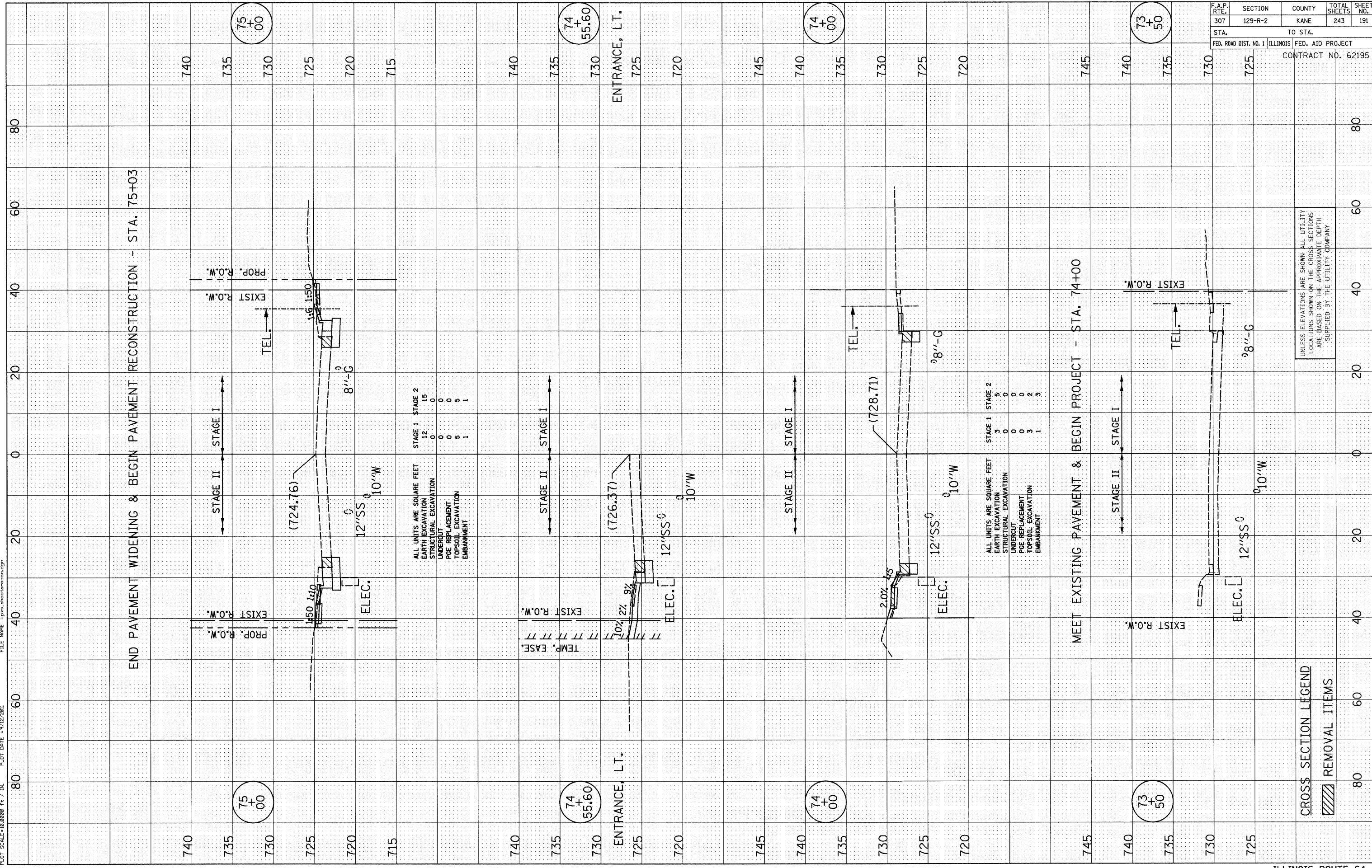
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL REPORT PLAN SHEETS
ILLINOIS ROUTE 64

SCALE: 1" = 50'
DATE: AUGUST 10, 2011

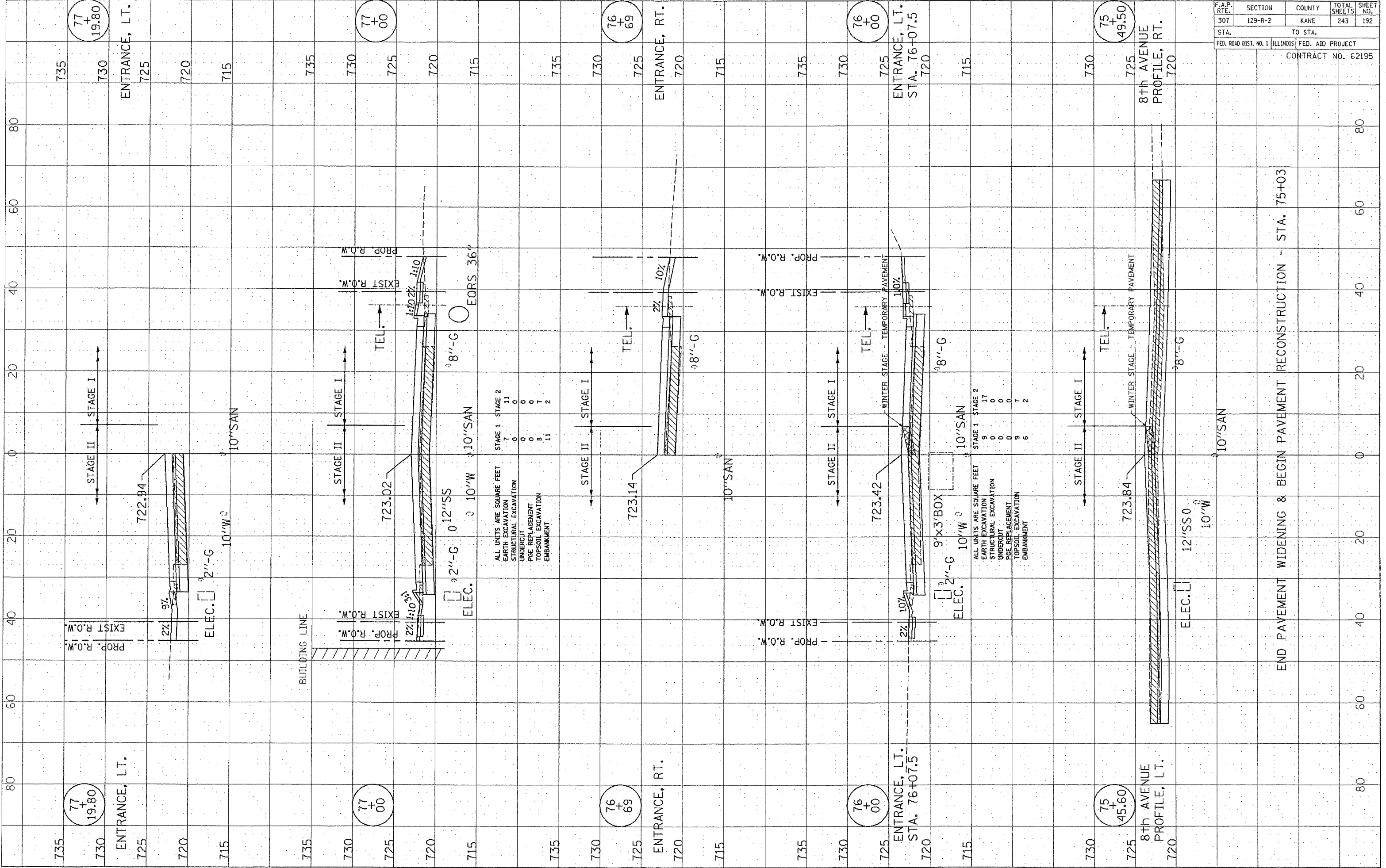
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CHECKED BY S.J.P.



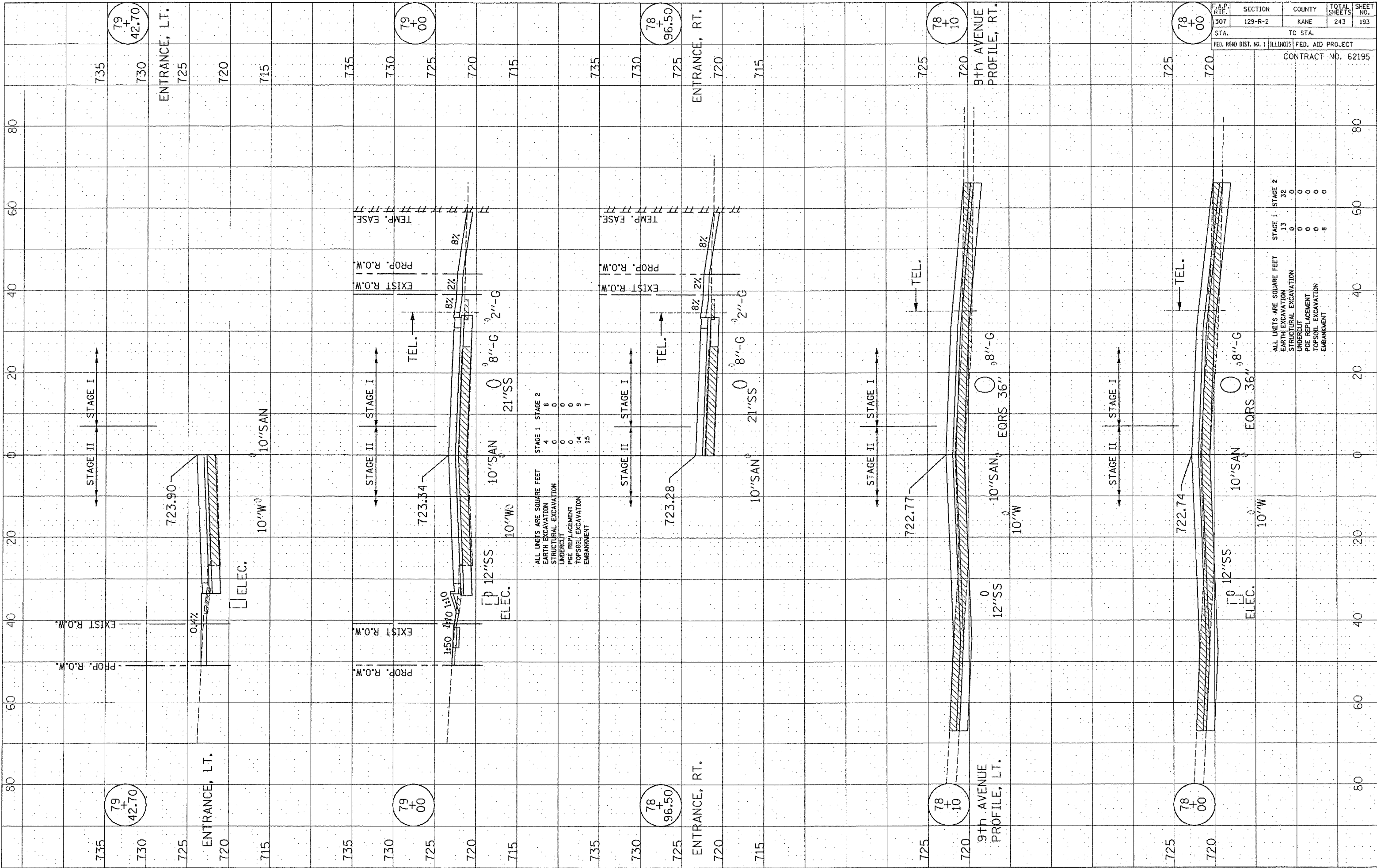
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	191
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62195				

UNLESS ELEVATIONS ARE SHOWN ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY

CROSS SECTION LEGEND
REMOVAL ITEMS



F.A.P. RTE. 307	SECTION 129-R-2	COUNTY KANE	TOTAL SHEETS 243	SHEET NO. 192
STA. TO STA.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62195				



79 + 42.70

ENTRANCE, LT.

735
730
725
720
715

PROF. R.O.W.
EXIST R.O.W.

10"W
10"W
10"W

STAGE II
STAGE I

723.90

0.4%

ELEC.

12"SS

10"W

10"SS

8"-G

2"-G

8% 2%

TEL.

EXIST R.O.W.
PROP. R.O.W.
TEMP. EASE.

79 + 00

ENTRANCE, RT.

78 + 96.50

ENTRANCE, RT.

735
730
725
720
715

PROF. R.O.W.
EXIST R.O.W.
TEMP. EASE.

10"W

STAGE II
STAGE I

723.28

8% 2%

TEL.

EXIST R.O.W.
PROP. R.O.W.
TEMP. EASE.

8"-G

2"-G

8% 2%

TEL.

EXIST R.O.W.
PROP. R.O.W.
TEMP. EASE.

78 + 10

ENTRANCE, LT.

78 + 00

ENTRANCE, LT.

735
730
725
720

PROF. R.O.W.
EXIST R.O.W.
TEMP. EASE.

10"W

STAGE II
STAGE I

722.74

12"SS

10"SS

10"SS

10"SS

10"SS

10"SS

10"SS

10"SS

TEL.

EXIST R.O.W.
PROP. R.O.W.
TEMP. EASE.

78 + 00

ENTRANCE, RT.

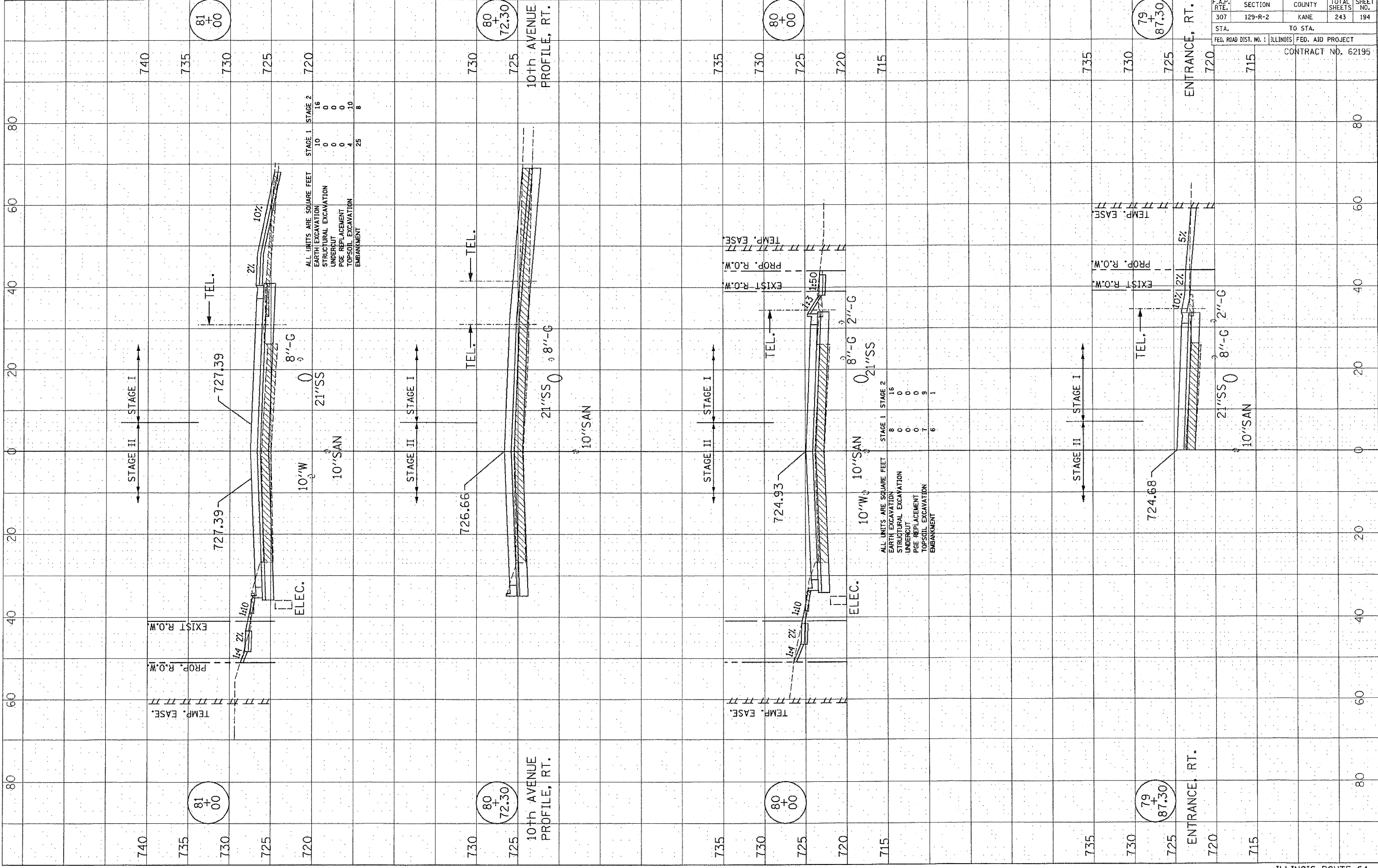
ALL UNITS ARE SQUARE FEET

EARTH EXCAVATION	4	0	0
STRUCTURAL EXCAVATION	0	0	0
UNDERCUT	0	0	0
PGE REPLACEMENT	0	0	0
TOPSOIL EXCAVATION	14	9	9
EMBANKMENT	15	7	7

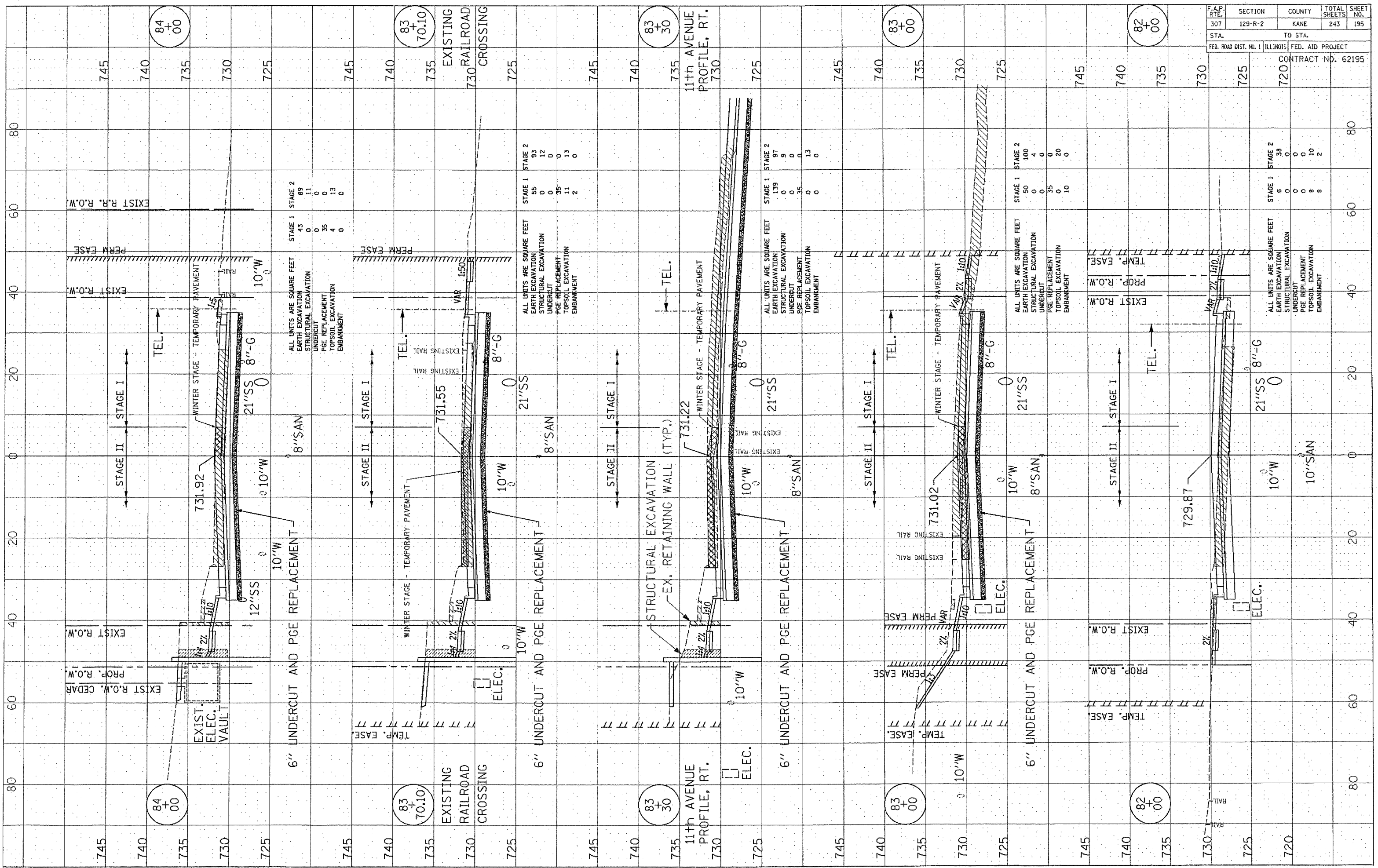
ALL UNITS ARE SQUARE FEET

EARTH EXCAVATION	13	32	0
STRUCTURAL EXCAVATION	0	0	0
UNDERCUT	0	0	0
PGE REPLACEMENT	0	0	0
TOPSOIL EXCAVATION	0	0	0
EMBANKMENT	8	0	0

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	193
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62195				

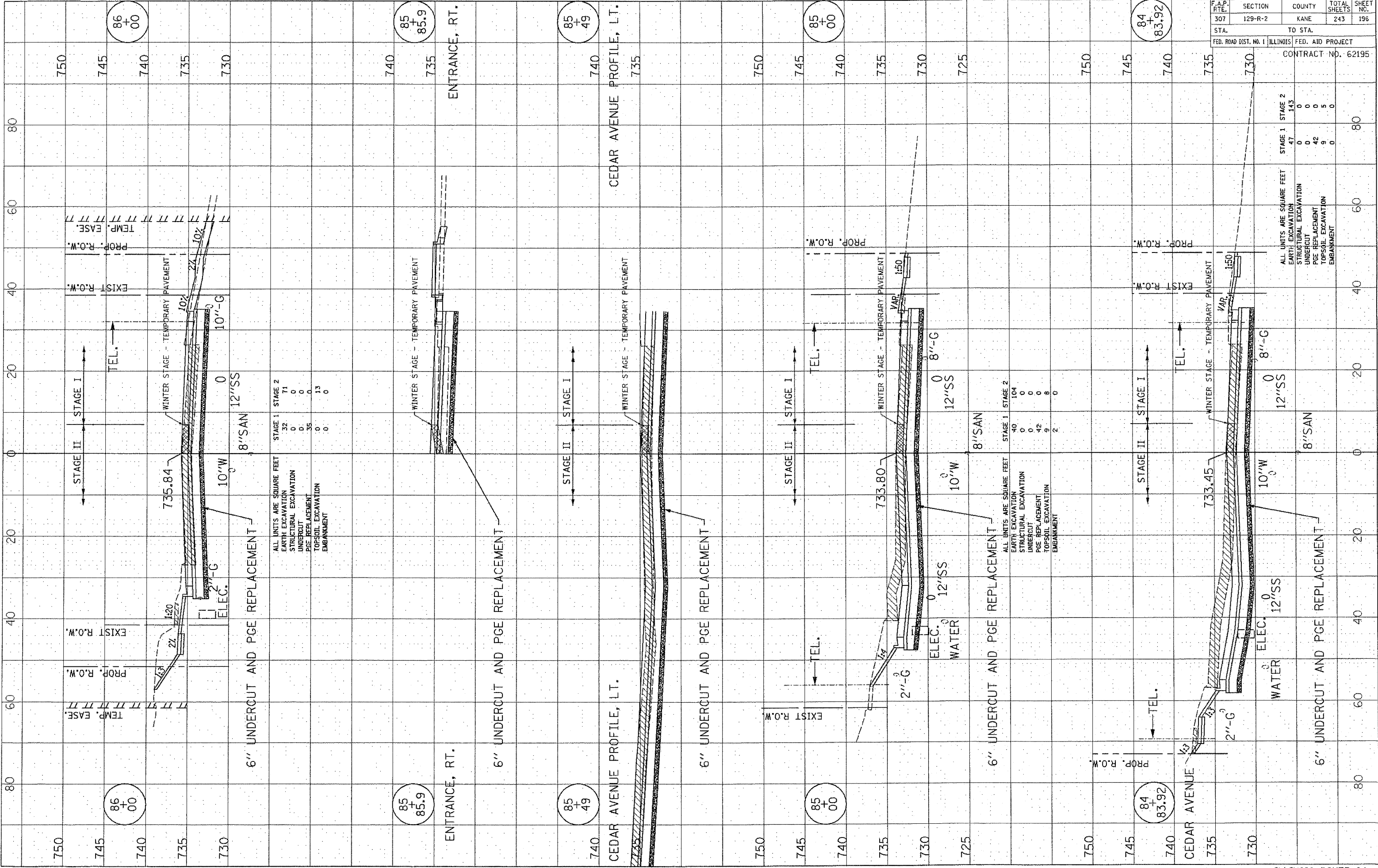


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	194
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62195				

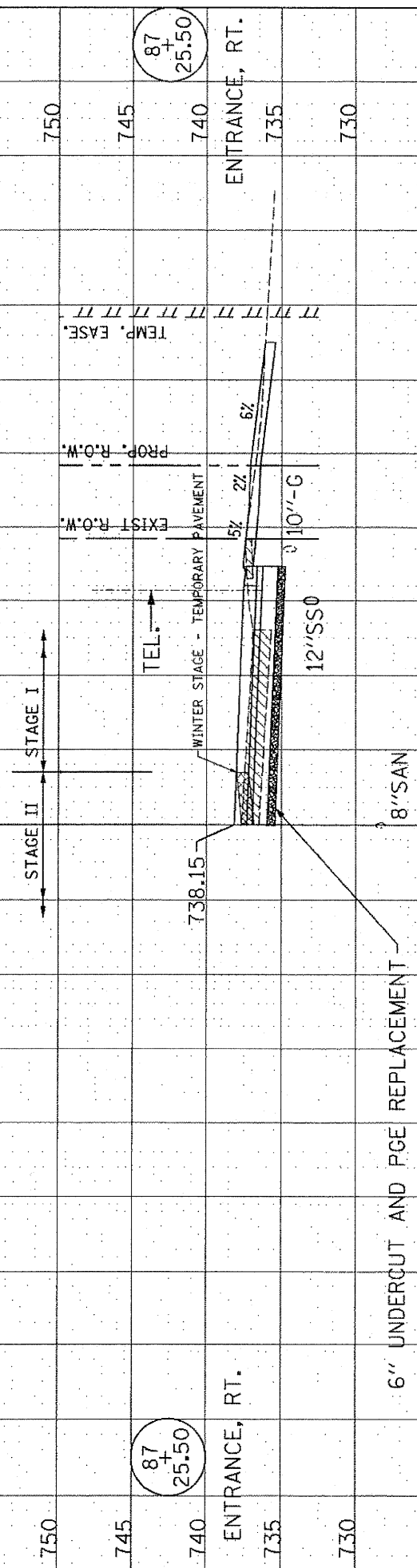


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	196
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT		

CONTRACT NO. 62195

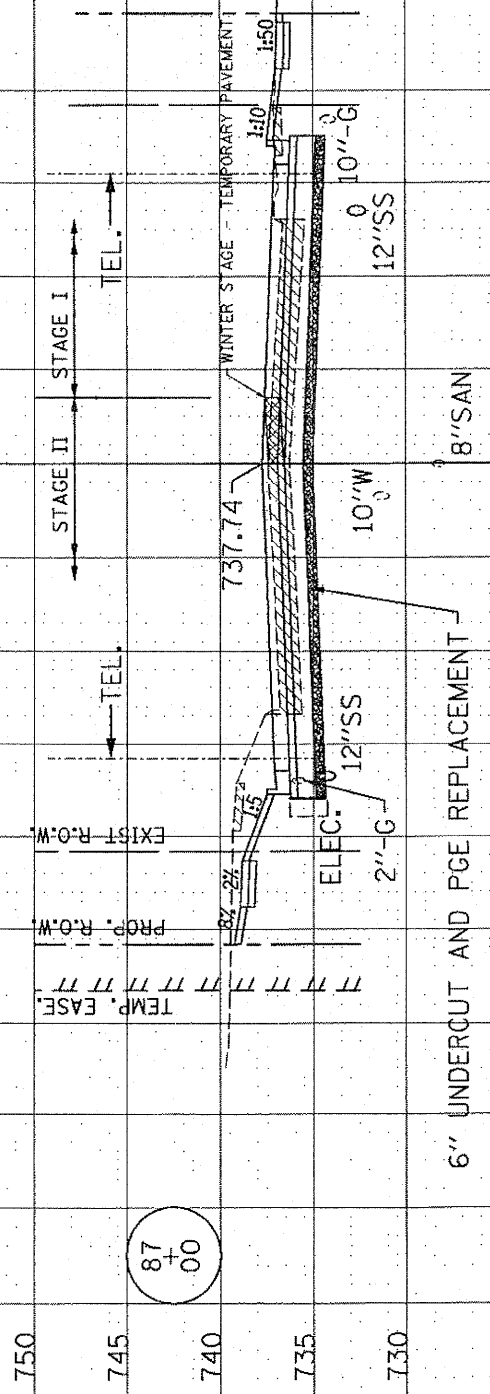


END PAVEMENT RECONSTRUCTION & BEGIN PAVEMENT WIDENING - STA. 87+58.98



87+58.98

87+00

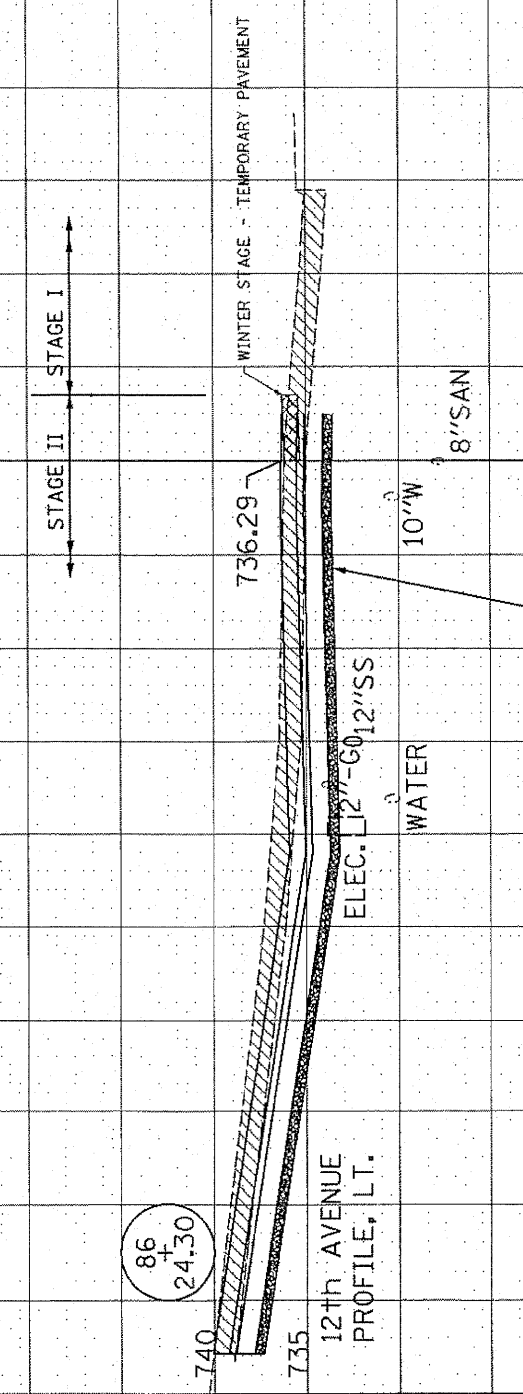


87+00

87+00

ALL UNITS ARE SQUARE FEET

	STAGE 1	STAGE 2
EARTH EXCAVATION	30	58
STRUCTURAL EXCAVATION	0	0
UNDERCUT	0	0
PGE REPLACEMENT	35	0
TOPSOIL EXCAVATION	9	10
EMBANKMENT	3	0



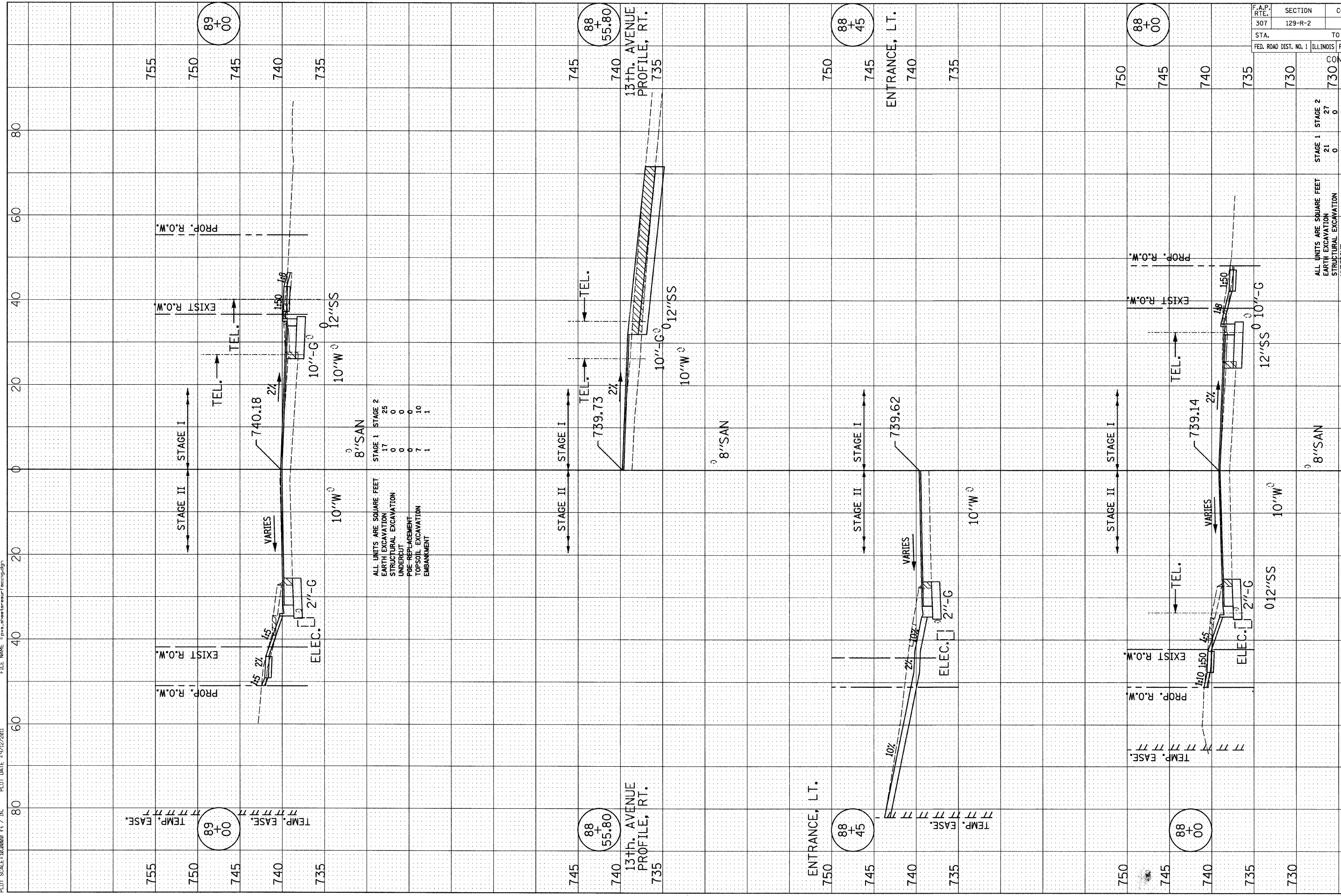
86+24.30

86+24.30

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	197

STA. TO STA.

FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT
	CONTRACT NO. 62195



ALL UNITS ARE SQUARE FEET

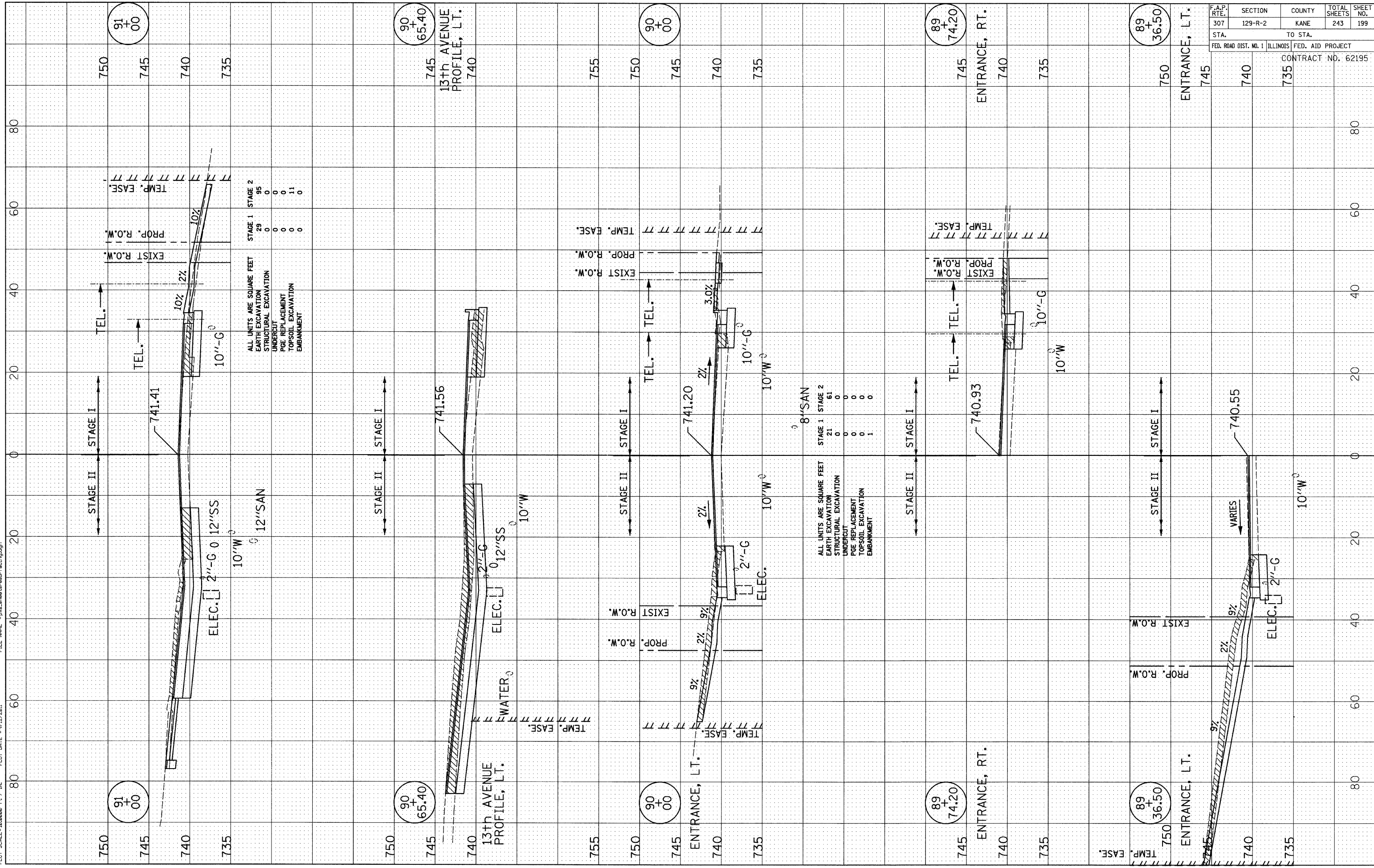
	STAGE 1	STAGE 2
EARTH EXCAVATION	17	25
STRUCTURAL EXCAVATION	0	0
UNDERCUT	0	0
POE REPLACEMENT	7	10
TOPSOIL EXCAVATION	1	1
EMBANKMENT		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	198

STA.	TO STA.	CONTRACT NO.
FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT	62195

STAGE 1	STAGE 2	ALL UNITS ARE SQUARE FEET
21	27	EARTH EXCAVATION
0	0	STRUCTURAL EXCAVATION
0	0	UNDERCUT
9	10	POE REPLACEMENT
1	1	TOPSOIL EXCAVATION
		EMBANKMENT

STATION	DESCRIPTION
87+58.98	END PAVEMENT RECONSTRUCTION & BEGIN PAVEMENT WIDENING



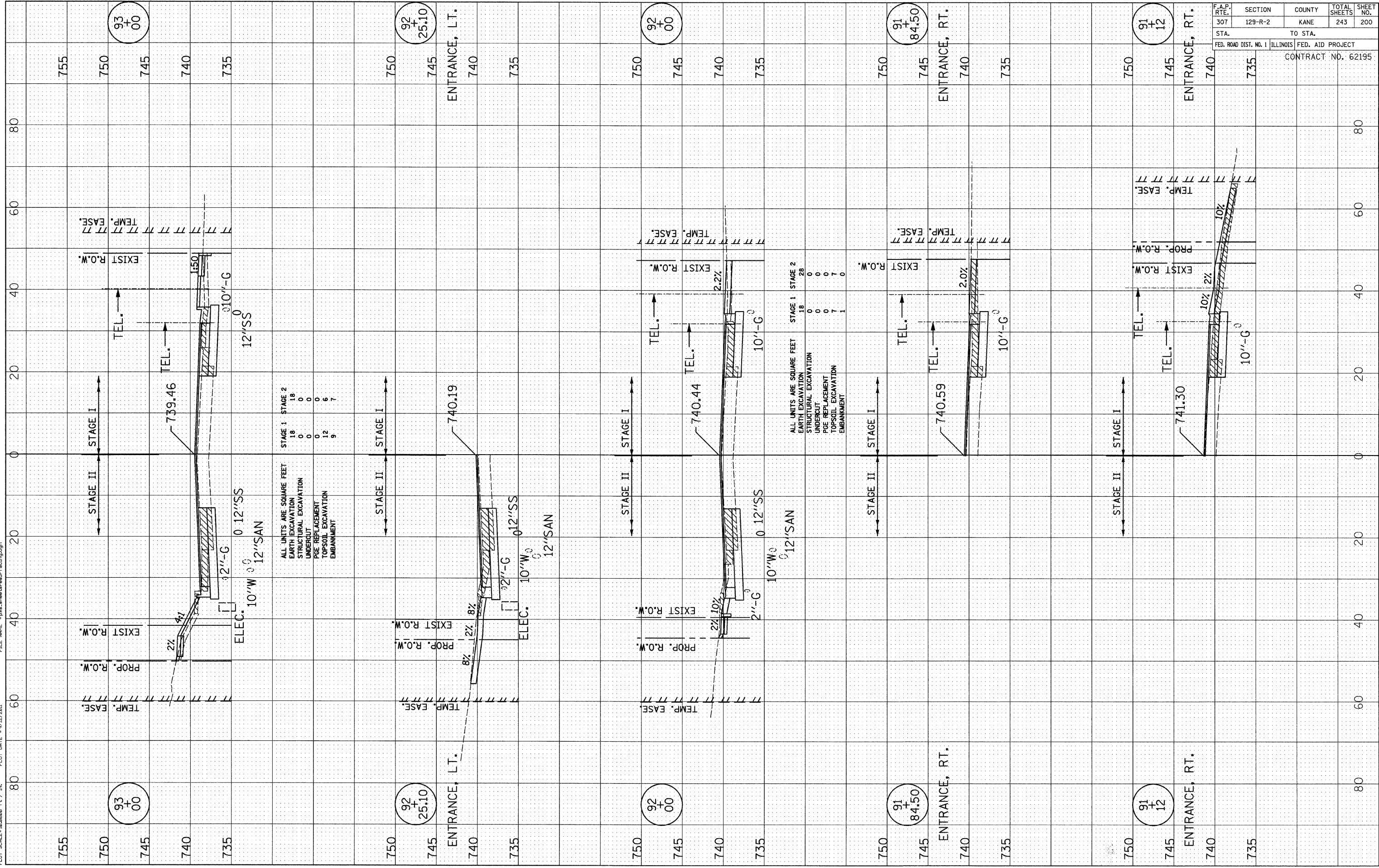
ALL UNITS ARE SQUARE FEET

EARTH EXCAVATION	STAGE 1	STAGE 2
STRUCTURAL EXCAVATION	29	95
UNDERCUT	0	0
PGE REPLACEMENT	0	0
TOPSOIL EXCAVATION	0	11
EMBANKMENT	0	0

ALL UNITS ARE SQUARE FEET

EARTH EXCAVATION	STAGE 1	STAGE 2
STRUCTURAL EXCAVATION	21	61
UNDERCUT	0	0
PGE REPLACEMENT	0	0
TOPSOIL EXCAVATION	0	0
EMBANKMENT	1	0

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	199
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 62195		



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	129-R-2	KANE	243	200
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62195				