

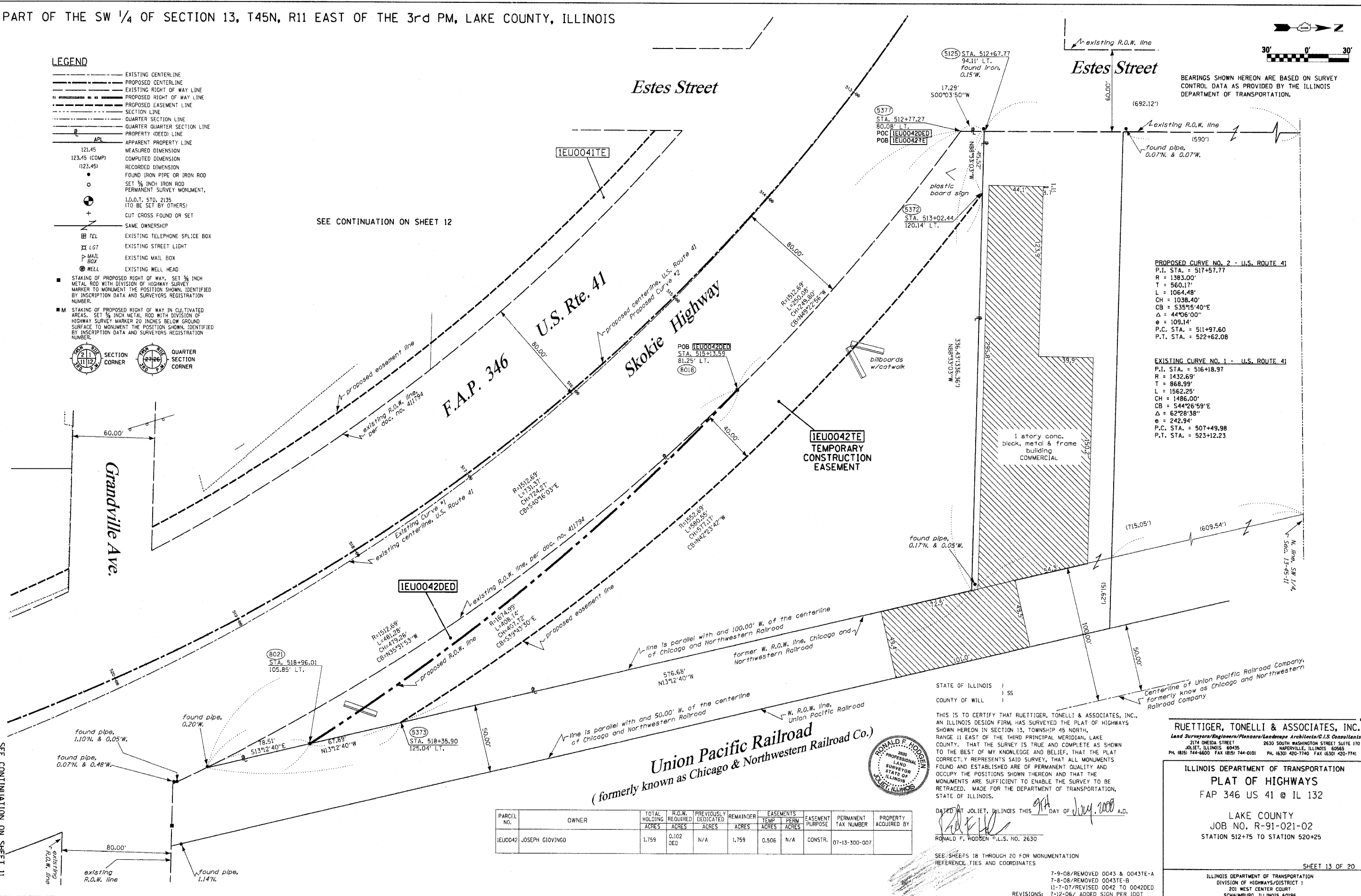
PART OF THE SW 1/4 OF SECTION 13, T45N, R11 EAST OF THE 3rd PM, LAKE COUNTY, ILLINOIS

LEGEND

- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- 121.45 MEASURED DIMENSION
- 123.45 (COMP) COMPUTED DIMENSION
- (123.45) RECORDED DIMENSION
- FOUND IRON PIPE OR IRON ROD
- SET 3/8 INCH IRON ROD
- ⊙ PERMANENT SURVEY MONUMENT, I.O.D.T. STD. 2135 (TO BE SET BY OTHERS)
- ⊕ CUT CROSS FOUND OR SET
- SAME OWNERSHIP
- TEL EXISTING TELEPHONE SPLICE BOX
- LGT EXISTING STREET LIGHT
- MAIL EXISTING MAIL BOX
- WELL EXISTING WELL HEAD
- STAKING OF PROPOSED RIGHT OF WAY. SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY 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. SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.



SEE CONTINUATION ON SHEET 12



PROPOSED CURVE NO. 2 - U.S. ROUTE 41
 P.I. STA. = 517+57.77
 R = 1383.00'
 T = 560.17'
 L = 1064.48'
 CH = 1038.40'
 CB = S35°15'40"E
 Δ = 44°06'00"
 θ = 109.14'
 P.C. STA. = 511+97.60
 P.T. STA. = 522+62.08

EXISTING CURVE NO. 1 - U.S. ROUTE 41
 P.I. STA. = 516+18.97
 R = 1432.69'
 T = 868.99'
 L = 1562.25'
 CH = 1486.00'
 CB = S44°26'59"E
 Δ = 62°28'38"
 θ = 242.94'
 P.C. STA. = 507+49.98
 P.T. STA. = 523+12.23

STATE OF ILLINOIS)
 COUNTY OF WILL) SS

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 13, TOWNSHIP 45 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE 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 9th DAY OF JULY, 2008 A.D.
 RONALD F. HODSON P.L.S. NO. 2630

RUETTIGER, TONELLI & ASSOCIATES, INC.
 Land Surveyors/Engineers/Planners/Landscape Architects/C.I.S. Consultants
 2174 ONEIDA STREET
 JOLIET, ILLINOIS 60435
 PH. (815) 744-6600 FAX (815) 744-0101
 2630 SOUTH WASHINGTON STREET SUITE 170
 MAPLEVILLE, ILLINOIS 60565
 PH. (630) 420-7740 FAX (630) 420-7741

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
 FAP 346 US 41 @ IL 132
 LAKE COUNTY
 JOB NO. R-91-021-02
 STATION 512+75 TO STATION 520+25

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	R.O.W. REQUIRED ACRES	PREVIOUSLY DEDICATED ACRES	REMAINDER ACRES	EASEMENTS		EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
						TEMP ACRES	PERM ACRES			
1EJ0042	JOSEPH GIOVINGO	1.759	0.102 DEED	N/A	1.759	0.506	N/A	CONSTR.	07-13-300-007	

SEE SHEETS 18 THROUGH 20 FOR MONUMENTATION REFERENCE TIES AND COORDINATES

SEE CONTINUATION ON SHEET 11

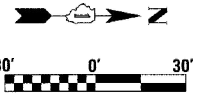
SHEET 13 OF 20

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/DISTRICT 1
 201 WEST CENTER COURT
 SCHUMBERG, ILLINOIS 60196

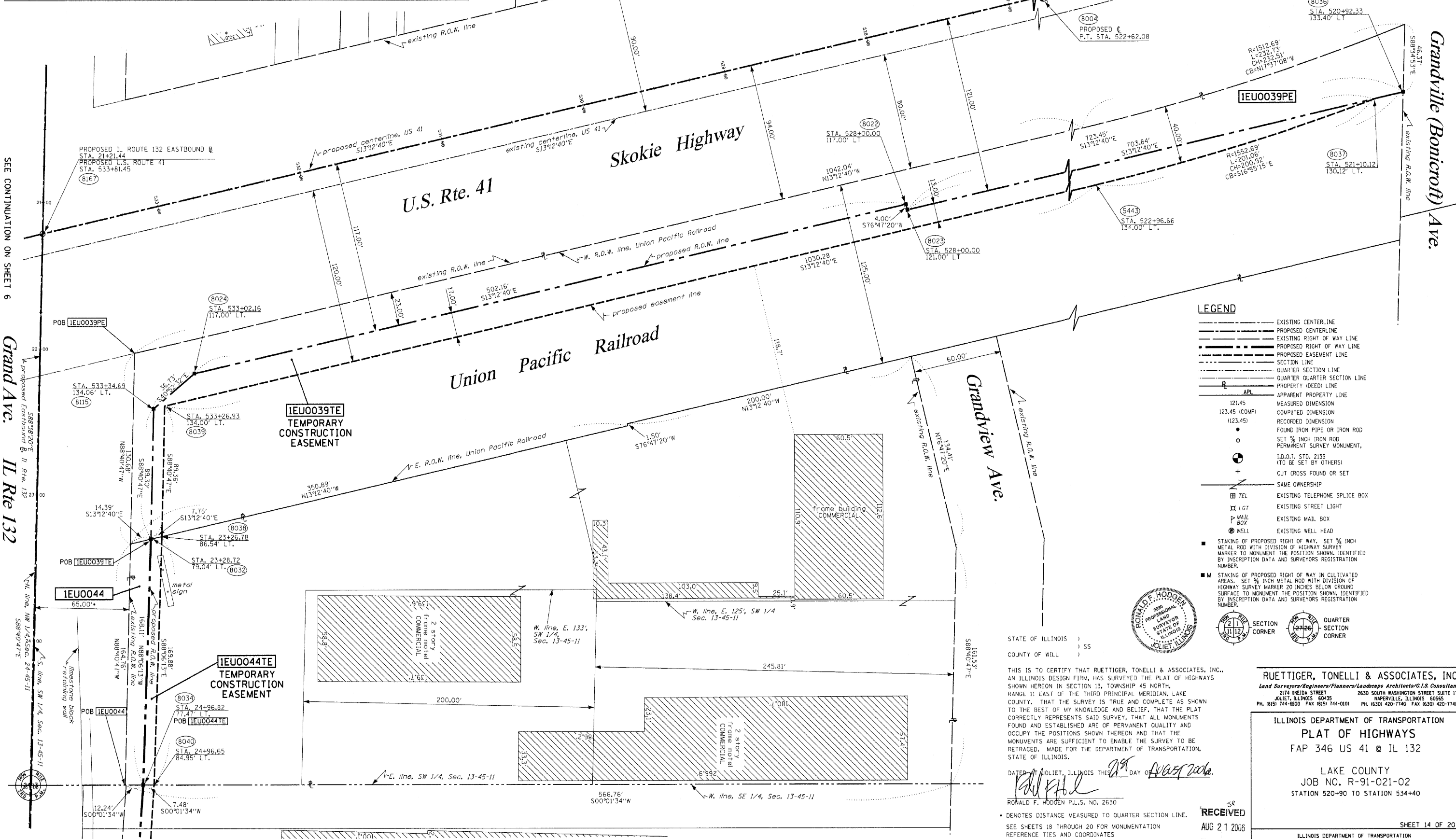
PART OF THE SW 1/4 OF SECTION 13, T45N, R11 EAST OF THE 3rd PM, LAKE COUNTY, ILLINOIS

SEE CONTINUATION ON SHEET 9-11

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.



PARCEL NO.	OWNER	TOTAL HOLDING ACRES	R.O.W. REQUIRED ACRES	PREVIOUSLY DEDICATED ACRES	REMAINDER ACRES	EASEMENTS TEMP ACRES	EASEMENTS PERM ACRES	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
1EU0039	UNION PACIFIC RAILROAD CO., SUCCESSOR TO THE CHICAGO NORTHWESTERN RAILROAD COMPANY	N/A	N/A	N/A	N/A	0.408	0.807	CONSTR.	07-13-300-104-8900	
1EU0044	JAMES P. DNAN	2.970	0.050	N/A	2.920	0.029	N/A	CONSTR.	07-13-300-107	



LEGEND

---	EXISTING CENTERLINE
- - -	PROPOSED CENTERLINE
---	EXISTING RIGHT OF WAY LINE
- - -	PROPOSED RIGHT OF WAY LINE
---	PROPOSED EASEMENT LINE
---	SECTION LINE
---	QUARTER SECTION LINE
---	QUARTER QUARTER SECTION LINE
---	PROPERTY (DEED) LINE
---	APL APPARENT PROPERTY LINE
121.45	MEASURED DIMENSION
123.45 (COMP)	COMPUTED DIMENSION
(123.45)	RECORDED DIMENSION
•	FOUND IRON PIPE OR IRON ROD
○	SET 1/2 INCH IRON ROD
⊙	PERMANENT SURVEY MONUMENT
⊙	1.00' STD. 2135 (TO BE SET BY OTHERS)
+	CUT CROSS FOUND OR SET
---	SAME OWNERSHIP
⊠ TEL	EXISTING TELEPHONE SPLICE BOX
⊠ LGT	EXISTING STREET LIGHT
⊠ MAIL BOX	EXISTING MAIL BOX
⊠ WELL	EXISTING WELL HEAD
■	STAKING OF PROPOSED RIGHT OF WAY. SET 1/2 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
■	STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET 1/2 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.



STATE OF ILLINOIS)
COUNTY OF WILL)

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 13, TOWNSHIP 45 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE 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 29th DAY OF AUGUST 2006.

RONALD F. HODGEN P.L.S. NO. 2630



RUETTIGER, TONELLI & ASSOCIATES, INC.
 Land Surveyors/Engineers/Planners/Landscape Architects/G.I.S. Consultants
 2174 ONEIDA STREET JOLIET, ILLINOIS 60438
 2630 SOUTH WASHINGTON STREET SUITE 170 HAPERVILLE, ILLINOIS 60565
 PH. (815) 744-8800 FAX (815) 744-0101 PH. (630) 420-1740 FAX (630) 420-1741

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
 FAP 346 US 41 @ IL 132
 LAKE COUNTY
 JOB NO. R-91-021-02
 STATION 520+90 TO STATION 534+40

RECEIVED
 AUG 21 2006
 PLATS & LEGALS

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/DISTRICT 1
 201 WEST CENTER COURT
 SCHAMBURG, ILLINOIS 60196

SEE CONTINUATION ON SHEET 6

Grand Ave. IL Rte 132

SEE CONTINUATION ON SHEET 16

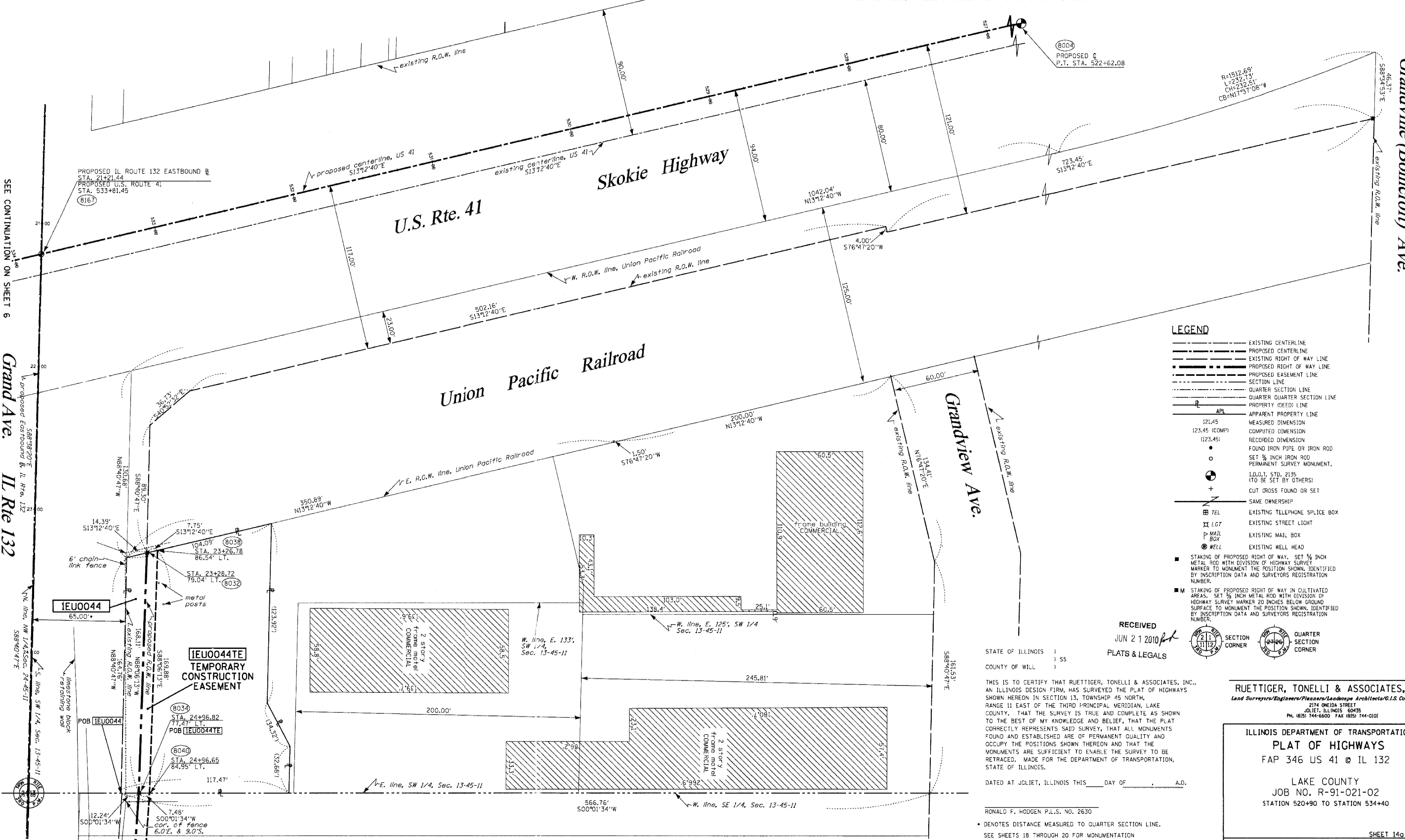
PART OF THE SW 1/4 OF SECTION 13, T45N, R11 EAST OF THE 3rd PM, LAKE COUNTY, ILLINOIS SEE CONTINUATION ON SHEET 9-11

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	R.O.W. REQUIRED ACRES	PREVIOUSLY DEDICATED ACRES	REMAINDER ACRES	EASEMENTS TEMP ACRES	EASEMENTS PERM ACRES	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
1EU0044	JAMES P. ONAN	0.427	0.050	N/A	0.377	0.029	N/A	CONSTR.	07-13-300-118	

NOTE: THIS PLAT WAS PREPARED AS A SUPPLEMENTAL SHEET TO SHEET 14 OF PLAT OF HIGHWAYS PREPARED BY RUETTIGER, TONELLI & ASSOC., HAVING A REVISION DATE OF 8/3/2006. SUPPLEMENTAL INFORMATION ON THIS SHEET INCLUDES:

UPDATING PARCEL 1EU0044
SEE RUETTIGER, TONELLI & ASSOC. PLAT FOR OTHER INFORMATION.

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.



SEE CONTINUATION ON SHEET 6

Grand Ave. IL Rte 132

Grandville (Bonicroft) Ave.

LEGEND

	EXISTING CENTERLINE
	PROPOSED CENTERLINE
	EXISTING RIGHT OF WAY LINE
	PROPOSED RIGHT OF WAY LINE
	PROPOSED EASEMENT LINE
	SECTION LINE
	QUARTER SECTION LINE
	QUARTER QUARTER SECTION LINE
	PROPERTY (DEED) LINE
	APPARENT PROPERTY LINE
	MEASURED DIMENSION
	COMPUTED DIMENSION
	RECORDED DIMENSION
	FOUND IRON PIPE OR IRON ROD
	SET 1/2 INCH IRON ROD
	SET 3/8 INCH IRON ROD
	PERMANENT SURVEY MONUMENT
	I.D.O.T. STD. 2135
	CUT CROSS FOUND OR SET
	SAVE OWNERSHIP
	EXISTING TELEPHONE SPLICE BOX
	EXISTING STREET LIGHT
	EXISTING MAIL BOX
	EXISTING WELL HEAD
	STAKING OF PROPOSED RIGHT OF WAY, SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
	STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS, SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

RECEIVED
JUN 21 2010
PLATS & LEGALS

STATE OF ILLINOIS)
) SS
COUNTY OF WILL)

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 13, TOWNSHIP 45 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, ILLINOIS. THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP 346 US 41 @ IL 132

LAKE COUNTY
JOB NO. R-91-021-02
STATION 520+90 TO STATION 534+40

DATED AT JOLIET, ILLINOIS THIS _____ DAY OF _____ A.D.

RONALD F. HODGEN P.L.S. NO. 2630
• DENOTES DISTANCE MEASURED TO QUARTER SECTION LINE.
SEE SHEETS 18 THROUGH 20 FOR MONUMENTATION REFERENCE TIES AND COORDINATES

REVISED: 6-21-10/ REVISE PARCEL TABLE PER IDOT TLW

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT
SCHALBURG, ILLINOIS 60196

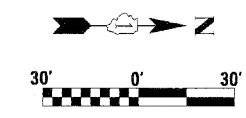
SEE CONTINUATION ON SHEET 16

PART OF THE SW.1/4 OF SECTION 13, TWP.45N., R.11E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	R.O.W. REQUIRED ACRES	PREVIOUSLY DEDICATED ACRES	REMAINDER ACRES	EASEMENTS TEMP ACRES	PERM ACRES	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
1EU0053	JAMES P. OHAN	0.377	0.019	N/A	0.358	0.096	N/A	CONSTR.	07-13-300-131	
1EU0047	GURNEE PROPERTY MANAGEMENT, INC., AN ILLINOIS CORPORATION	1.655	N/A	N/A	1.655	0.052	N/A	CONSTR.	07-13-300-108	
1EU0048	RICARDO RUFFOLO, DUILLO RUFFOLO AND ALDO RUFFOLO	0.887	N/A	N/A	0.887	0.090	N/A	CONSTR.	07-13-300-117	
1EU0049	UNION PACIFIC RAILROAD COMPANY, SUCCESSOR TO THE CHICAGO AND NORTHWESTERN RAILROAD COMPANY	3.685	N/A	N/A	3.685	N/A	0.021	CONSTR.	07-13-300-104-8900	

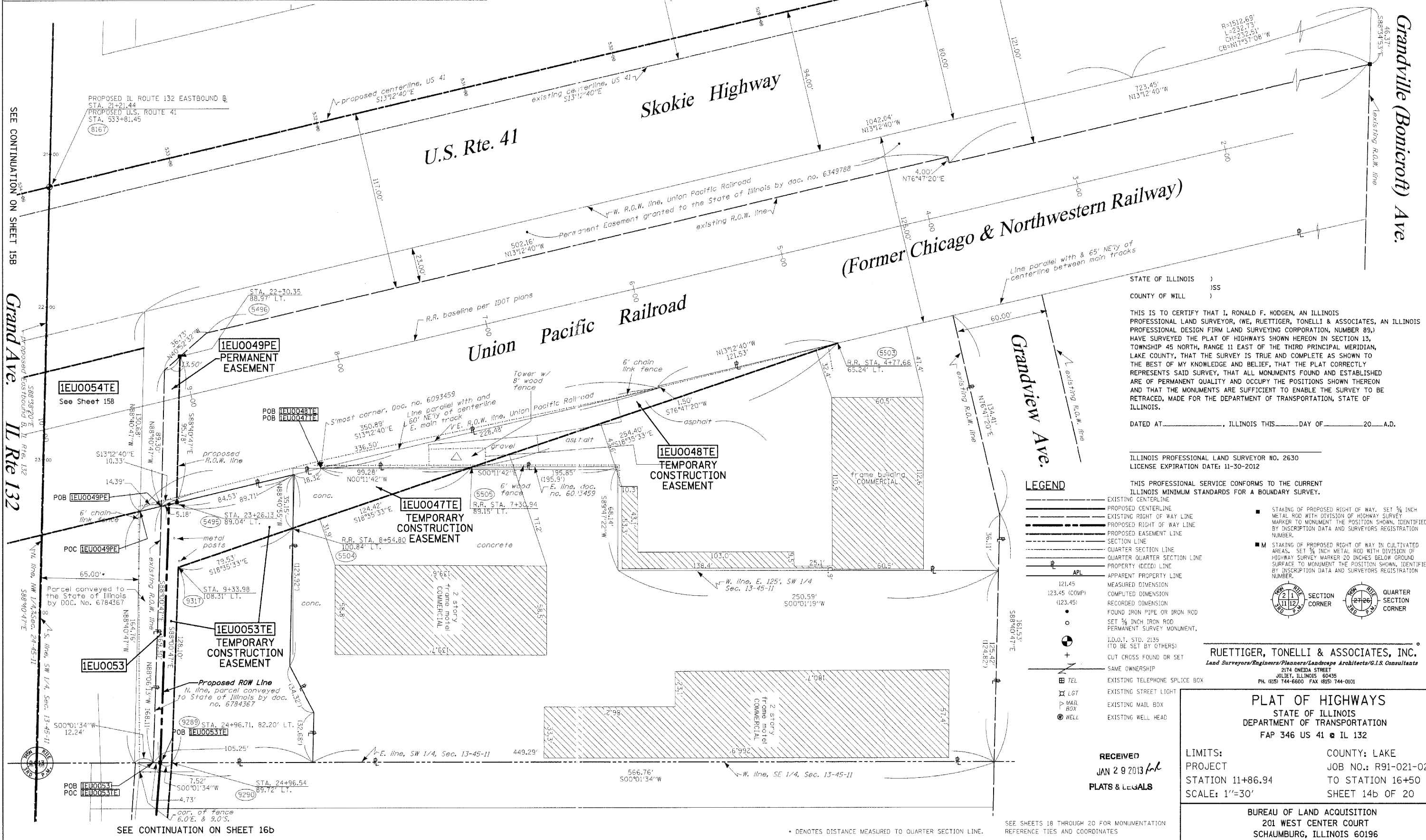
NOTE: SEE CONTINUATION ON SHEETS 9b-11b

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.



THIS PLAT WAS PREPARED AS A SUPPLEMENTAL SHEET TO SHEET 14 OF PLAT OF HIGHWAYS, PREPARED BY RUETTIGER, TONELLI & ASSOC. HAVING A REVISION DATE OF 8/3/2006. SUPPLEMENTAL INFORMATION ON THIS SHEET INCLUDES:

REVISE 1EU0044TE TO 1EU0053TE, REVISE 1EU0047TE, 1EU0048TE & ADD 1EU0049PE & 0053
SEE RUETTIGER, TONELLI & ASSOC. PLAT FOR OTHER INFORMATION.



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 13, TOWNSHIP 45 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE 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 _____, ILLINOIS THIS _____ DAY OF _____ 20____ 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.

STAKING OF PROPOSED RIGHT OF WAY. SET 3/8" INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET 3/8" INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

LEGEND

- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER SECTION LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORDED DIMENSION
- FOUND IRON PIPE OR IRON ROD
- SET 3/8" INCH IRON ROD
- PERMANENT SURVEY MONUMENT
- I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- CUT CROSS FOUND OR SET
- SAME OWNERSHIP
- EXISTING TELEPHONE SPLICE BOX
- EXISTING STREET LIGHT
- EXISTING MAIL BOX
- EXISTING WELL HEAD

APL

- 121.45
- 123.45 (COMP)
- (123.45)
- 161.53'
- 588'40.47"E

SECTION CORNER

QUARTER SECTION CORNER

RUETTIGER, TONELLI & ASSOCIATES, INC.
Land Surveyors/Engineers/Planners/Landscape Architects/G.I.S. Consultants
2174 ONEIDA STREET
JOLIET, ILLINOIS 60435
PH. (815) 744-6000 FAX (815) 744-0101

RECEIVED
JAN 2 9 2013
PLATS & LEGALS

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FAP 346 US 41 @ IL 132

LIMITS: COUNTY: LAKE
PROJECT: JOB NO.: R91-021-02
STATION 11+86.94 TO STATION 16+50
SCALE: 1"=30' SHEET 14b OF 20

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

SEE CONTINUATION ON SHEET 15B

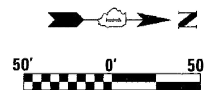
Grand Ave. IL Rte 132

SEE CONTINUATION ON SHEET 16b

* DENOTES DISTANCE MEASURED TO QUARTER SECTION LINE.

SEE SHEETS 18 THROUGH 20 FOR MONUMENTATION REFERENCE TIES AND COORDINATES

PART OF THE N. 1/2 OF SECTION 24, T45N, R11 EAST, OF THE 3rd PM, LAKE COUNTY, ILLINOIS

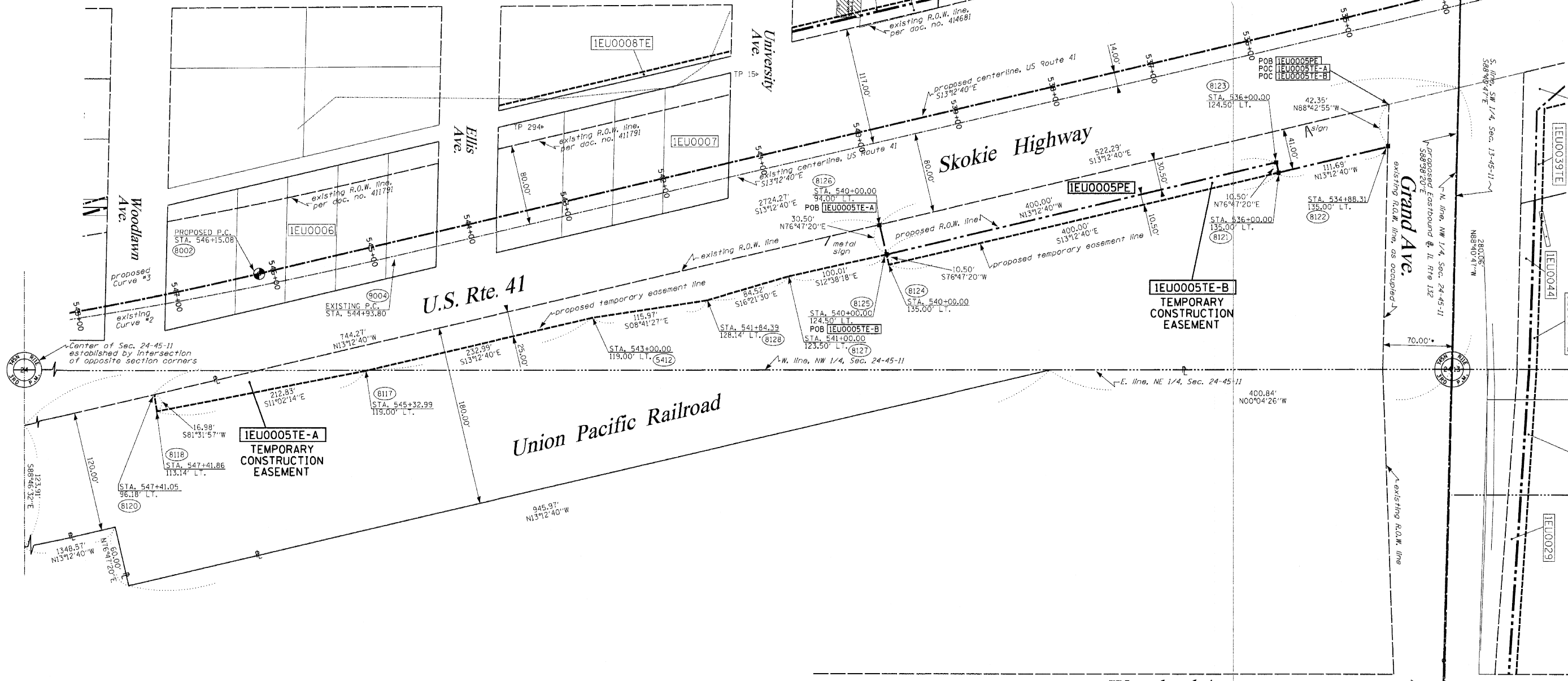


BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	R.O.W. REQUIRED ACRES	PREVIOUSLY DEDICATED ACRES	REMAINDER ACRES	EASEMENTS TEMP ACRES	PERM ACRES	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
1EU0005	UNION PACIFIC RAILROAD COMPANY FORMERLY KNOWN AS THE CHICAGO AND NORTHWESTERN RAILROAD COMPANY	N/A	N/A	N/A	N/A	A-0.445 B-0.096	0.390	CONSTR.	07-24-200-001-8900	

SEE CONTINUATION ON SHEETS 3-6

SEE CONTINUATION ON SHEET 2



SEE CONTINUATION ON SHEET 9

SEE CONTINUATION ON SHEET 14

SEE CONTINUATION ON SHEET 16

LEGEND

- EXISTING CENTERLINE
- - - PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- - - PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PROPERTY IDEED LINE
- APPEARANT PROPERTY LINE
- 121.45 MEASURED DIMENSION
- 123.45 (COMP) COMPUTED DIMENSION
- (123.45) RECORDED DIMENSION
- FOUND IRON PIPE OR IRON ROD
- SET 1/2 INCH IRON ROD
- PERMANENT SURVEY MONUMENT
- I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- + CUT CROSS FOUND OR SET
- SAME OWNERSHIP
- TEL EXISTING TELEPHONE SPLICE BOX
- LGT EXISTING STREET LIGHT
- MAIL EXISTING MAIL BOX
- WELL EXISTING WELL HEAD
- STAKING OF PROPOSED RIGHT OF WAY, SET 1/2 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
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- SECTION CORNER
- QUARTER SECTION CORNER

PROPOSED CURVE NO. 3 - U.S. ROUTE 41

P.I. STA. = 550+46.16
 R = 3740.00'
 T = 431.08'
 L = 858.37'
 CH = 856.49'
 CB = 506°38'10"E
 Δ = 13°09'00"
 θ = 24.76'
 P.C. STA. = 546+15.08
 P.T. STA. = 554+73.45

EXISTING CURVE NO. 2 - U.S. ROUTE 41

P.I. STA. = 550+01.81
 R = 4407.47'
 T = 508.01'
 L = 1011.56'
 CH = 1009.34'
 CB = 506°38'10"E
 Δ = 13°09'00"
 θ = 29.18'
 P.C. STA. = 544+93.80
 P.T. STA. = 555+05.36

SEE CONTINUATION ON SHEETS 17

STATE OF ILLINOIS)
) SS
 COUNTY OF WILL)

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 24, TOWNSHIP 45 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE 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 21st DAY OF AUGUST 2006.
 Ronald F. Hodgen
 RONALD F. HODGEN P.L.S., NO. 2630



RUETTIGER, TONELLI & ASSOCIATES, INC.
 Land Surveyors/Engineers/Planners/Landscape Architects/G.I.S. Consultants
 2174 OREGA STREET JOLIET, ILLINOIS 60435
 2630 SOUTH WASHINGTON STREET SUITE 170 NAPERVILLE, ILLINOIS 60566
 PH. (815) 744-6600 FAX (815) 744-0101 PH. (630) 420-7740 FAX (630) 420-7741

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PLAT OF HIGHWAYS
 FAP 346 US 41 @ IL 132
 LAKE COUNTY
 JOB NO. R-91-021-02
 STATION 533+70 TO STATION 548+07

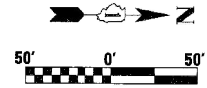
ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/DISTRICT 1
 201 WEST CENTER COURT
 SCHAMBURG, ILLINOIS 60196

8-03-06 / REVISE PER IDOT
 7-26-06 / ADJUSTED THE SHEET EXTENTS
 REVISIONS: 7-12-06 / REVISIONS PER IDOT

SEE SHEETS 18 THROUGH 20 FOR MONUMENTATION REFERENCE TIES AND COORDINATES

SHEET 1 OF 20 IS A COVER SHEET AND IS NOT RECORDED
 R7&A 20021947 (US 41)

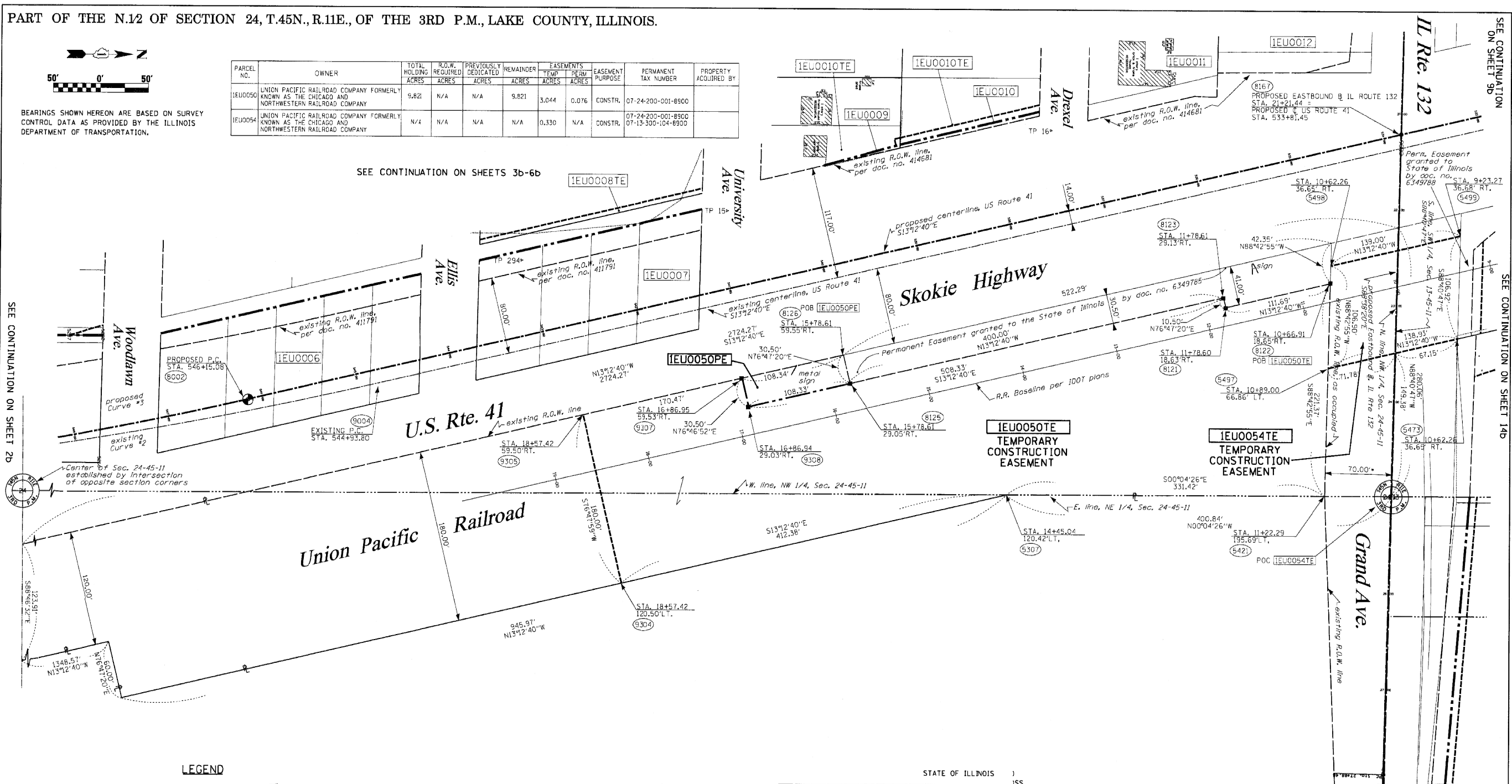
PART OF THE N.1/2 OF SECTION 24, T.45N., R.11E., OF THE 3RD P.M., LAKE COUNTY, ILLINOIS.



BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	R.O.W. REQUIRED ACRES	PREVIOUSLY DEDICATED ACRES	REMAINDER ACRES	EASEMENTS TEMP ACRES	EASEMENTS PERM ACRES	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
1EJ0050	UNION PACIFIC RAILROAD COMPANY FORMERLY KNOWN AS THE CHICAGO AND NORTHWESTERN RAILROAD COMPANY	9.821	N/A	N/A	9.821	3.044	0.076	CONSTR.	07-24-200-001-8900	
1EJ0054	UNION PACIFIC RAILROAD COMPANY FORMERLY KNOWN AS THE CHICAGO AND NORTHWESTERN RAILROAD COMPANY	N/A	N/A	N/A	N/A	0.330	N/A	CONSTR.	07-24-200-001-8900 07-13-300-104-8900	

SEE CONTINUATION ON SHEET 2b



SEE CONTINUATION ON SHEET 9b

SEE CONTINUATION ON SHEET 14b

LEGEND

- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PROPERTY (G.E.D.) LINE
- APPARENT PROPERTY LINE
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORDED DIMENSION
- FOUND IRON PIPE OR IRON ROD
- SET 3/8 INCH IRON ROD
- PERMANENT SURVEY MONUMENT
- I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- CUT CROSS FOUND OR SET

SECTION:

- SAME OWNERSHIP
- EXISTING TELEPHONE SPLICE BOX
- EXISTING STREET LIGHT
- EXISTING MAIL BOX
- EXISTING WELL HEAD
- STAKING OF PROPOSED RIGHT OF WAY, SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS, SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

PROPOSED CURVE NO. 3 - U.S. ROUTE 41
 P.I. STA. = 550+46.16
 R = 3740.00'
 T = 431.08'
 L = 858.37'
 CH = 856.49'
 CB = 506°38'10"E
 Δ = 13°09'00"
 θ = 24.76'
 P.C. STA. = 546+15.08
 P.T. STA. = 554+73.45

EXISTING CURVE NO. 2 - U.S. ROUTE 41
 P.I. STA. = 550+01.81
 R = 4407.47'
 T = 508.01'
 L = 1011.56'
 CH = 1009.34'
 CB = 506°38'10"E
 Δ = 13°09'00"
 θ = 29.18'
 P.C. STA. = 544+93.80
 P.T. STA. = 555+05.36

SEE CONTINUATION ON SHEETS 17b

STATE OF ILLINOIS)
 COUNTY OF WIL)

THIS IS TO CERTIFY THAT J. 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 24, TOWNSHIP 45 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE 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, AND THAT THE 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 _____, ILLINOIS THIS _____ DAY OF _____ 20__ 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.

Waveland Ave.

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

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 FAP 346 US 41 @ IL 132

LIMITS: COUNTY: LAKE
 PROJECT: JOB NO.: R91-021-02
 STATION 11+86.94 TO STATION 16+50
 SCALE: 1"=50' SHEET 15b OF 20

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

ROUTE: FAP 346 (US 41)

COUNTY: LAKE

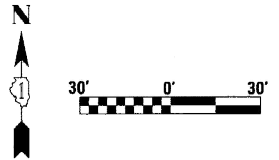
JOB NO.: R91-021-02

RECORDING: RECORDED ON

SHEET 1 OF 20 IS A COVER SHEET AND IS NOT RECORDED
 RT&A 20021947 (US 41)

PART OF THE SE 1/4 OF SECTION 13, T45N, R11 EAST,
OF THE 3rd PM, LAKE COUNTY, ILLINOIS

BEARINGS SHOWN HEREON ARE BASED ON SURVEY
CONTROL DATA AS PROVIDED BY THE ILLINOIS
DEPARTMENT OF TRANSPORTATION.



PARCEL NO.	OWNER	TOTAL HOLDING ACRES	R.O.W. REQUIRED ACRES	PREVIOUSLY DEDICATED ACRES	REMAINDER ACRES	EASEMENTS		EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
						TEMP ACRES	PERM ACRES			
1EU0029	FIVE SAC SELF-STORAGE CORPORATION	4.149	0.248	0.159	3.901	0.052	N/A	CONSTR.	07-13-417-001	
1EU0031	GURNEE PROPERTY MANAGEMENT, INC.	0.754	0.021	N/A	0.733	0.033	N/A	CONSTR.	07-13-418-014 07-13-418-013	
1EU0032	GRAND PREMIER TRUST & INVESTMENT INC. AS TRUSTEE, TR. NO. 1893	0.467	0.003	N/A	0.464	0.052	N/A	CONSTR.	07-13-418-003	

LEGEND

- EXISTING CENTERLINE
- - - PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- - - PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- 121.45 MEASURED DIMENSION
- 123.45 (COMP) COMPUTED DIMENSION
- 123.45) RECORDED DIMENSION
- FOUND IRON PIPE OR IRON ROD
- SET 1/2 INCH IRON ROD
- PERMANENT SURVEY MONUMENT
- I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- CUT CROSS FOUND OR SET
- SUT OWNERSHIP
- TEL EXISTING TELEPHONE SPLICE BOX
- LG EXISTING STREET LIGHT
- MAIL EXISTING MAIL BOX
- WELL EXISTING WELL HEAD
- STAKING OF PROPOSED RIGHT OF WAY. SET 1/2 INCH METAL ROD WITH DIVISION OF HIGHWAY 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. SET 1/2 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

PROPOSED EAST BOUND
BASELINE CURVE 2-ROUTE 132
P.I. STA = 28+82.34
Δ = 01°04'32"
R = 10000.00'
T = 93.86'
L = 187.71'
e = 0.44'
CH = 187.70'
CB = S88°06'04"E
P.C. STA = 27+88.48
P.T. STA = 29+76.19

PROPOSED EAST BOUND
BASELINE CURVE 3-ROUTE 132
P.I. STA = 30+76.71
Δ = 01°09'06"
R = 10000.00'
T = 100.52'
L = 201.02'
e = 0.51'
CH = 201.02'
CB = S88°08'21"E
P.C. STA = 29+76.19
P.T. STA = 31+77.21

STATE OF ILLINOIS)
COUNTY OF WILL) SS



THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 13, TOWNSHIP 45 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE 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 21st DAY OF AUGUST 2006.

RONALD F. HODGEN P.L.S. NO. 2630

RECEIVED
AUG 21 2006
PLAT LEGALS

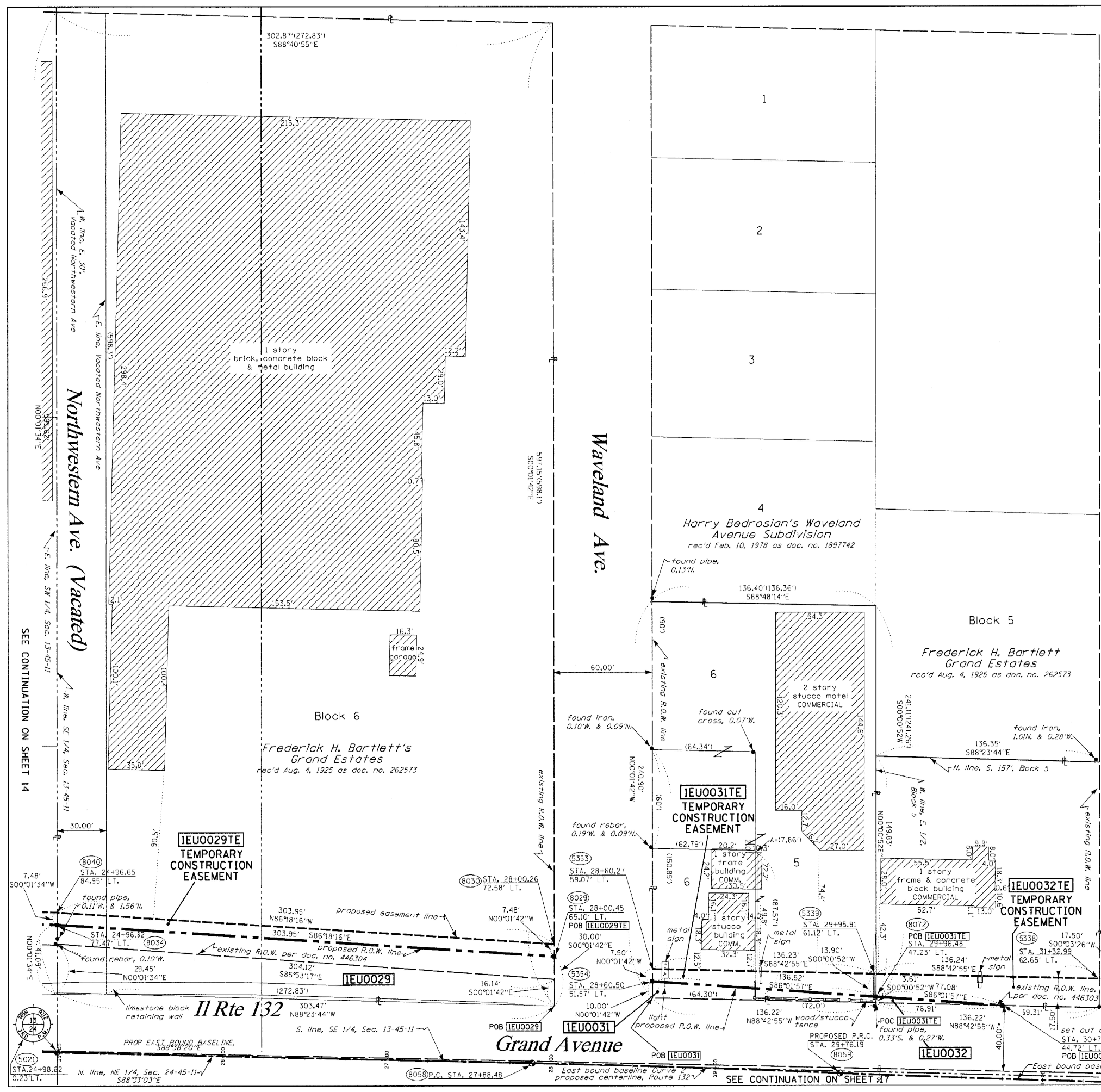
RUETTIGER, TONELLI & ASSOCIATES, INC.
Land Surveyors/Engineers/Planners/Landscape Architects/C.S. Consultants
2174 ONEIDA STREET
JOLIET, ILLINOIS 60435
PH. (815) 744-6800 FAX (815) 744-0101 PH. (630) 420-7740 FAX (630) 420-7741

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP 346 US 41 @ IL 132

LAKE COUNTY
JOB NO. R-91-021-02
STATION 25+00 TO STATION 31+50

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT
SCHUMBERG, ILLINOIS 60196

SHEET 1 OF 20 IS A COVER SHEET AND IS NOT RECORDED
RT&A 20021947 (US 41)

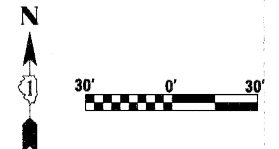


SEE CONTINUATION ON SHEET 14

SEE CONTINUATION ON SHEET 17

PART OF THE SE 1/4 OF SECTION 13, T45N, R11 EAST,
OF THE 3rd PM, LAKE COUNTY, ILLINOIS

BEARINGS SHOWN HEREON ARE BASED ON SURVEY
CONTROL DATA AS PROVIDED BY THE ILLINOIS
DEPARTMENT OF TRANSPORTATION.



PARCEL NO.	OWNER	TOTAL HOLDING ACRES	R.O.W. REQUIRED ACRES	PREVIOUSLY DEDICATED ACRES	REMAINDER ACRES	EASEMENTS TEMP ACRES	EASEMENTS PERM ACRES	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
1EU0029	FIVE SAC SELF-STORAGE CORPORATION	4.149	0.248	0.159	3.501	0.052	N/A	CONSTR.	07-13-417-001	
1EU0031	GURNEE PROPERTY MANAGEMENT, INC.	0.754	0.021	N/A	0.733	0.033	N/A	CONSTR.	07-13-400-059	
1EU0032	GRAND PREMIER TRUST & INVESTMENT INC. AS TRUSTEE, TR. NO. 1893	0.467	0.003	N/A	0.464	0.052	N/A	CONSTR.	07-13-418-003	

NOTE:
THIS PLAT WAS PREPARED AS A SUPPLEMENTAL SHEET TO SHEET 16 OF PLAT OF HIGHWAYS PREPARED BY RUETTIGER, TONELLI & ASSOC. HAVING A REVISION DATE OF 7/31/2006. SUPPLEMENTAL INFORMATION ON THIS SHEET INCLUDES:
UPDATING PARCEL 1EU0029
UPDATING PARCEL 1EU0031
UPDATING PARCEL 1EU0032
SEE RUETTIGER, TONELLI & ASSOC. PLAT FOR OTHER INFORMATION.

LEGEND

- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORDED DIMENSION
- FOUND IRON PIPE OR IRON ROD
- SET 3/8 INCH IRON ROD
- PERMANENT SURVEY MONUMENT
- I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- CUT CROSS FOUND OR SET
- SAME OWNERSHIP
- TEL EXISTING TELEPHONE SPLICE BOX
- LGT EXISTING STREET LIGHT
- MAIL BOX EXISTING MAIL BOX
- WELL EXISTING WELL HEAD
- STAKING OF PROPOSED RIGHT OF WAY. SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY 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. SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER
- SECTION CORNER
- QUARTER SECTION CORNER

PROPOSED EAST BOUND
BASELINE CURVE 2-ROUTE 132
P.I. STA = 28+82.34
Δ = 01°04'32"
R = 10000.00'
T = 93.86'
L = 187.71'
e = 0.44'
CH = 187.70'
CB = S88°06'04"E
P.C. STA = 27+88.48
P.T. STA = 29+76.19

PROPOSED EAST BOUND
BASELINE CURVE 3-ROUTE 132
P.I. STA = 30+76.71
Δ = 01°09'06"
R = 10000.00'
T = 100.52'
L = 201.02'
e = 0.51'
CH = 201.02'
CB = S88°08'21"E
P.C. STA = 29+76.19
P.T. STA = 31+77.21

STATE OF ILLINOIS)
COUNTY OF WILL) SS

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 13, TOWNSHIP 45 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE 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 _____ DAY OF _____ A.D.

RONALD F. HODGEN P.L.S. NO. 2630

RECEIVED
JUN 17 2010
PLATS & LEGALS

RUETTIGER, TONELLI & ASSOCIATES, INC.
Land Surveyors/Engineers/Planners/Landscape Architects/C.I.S. Consultants

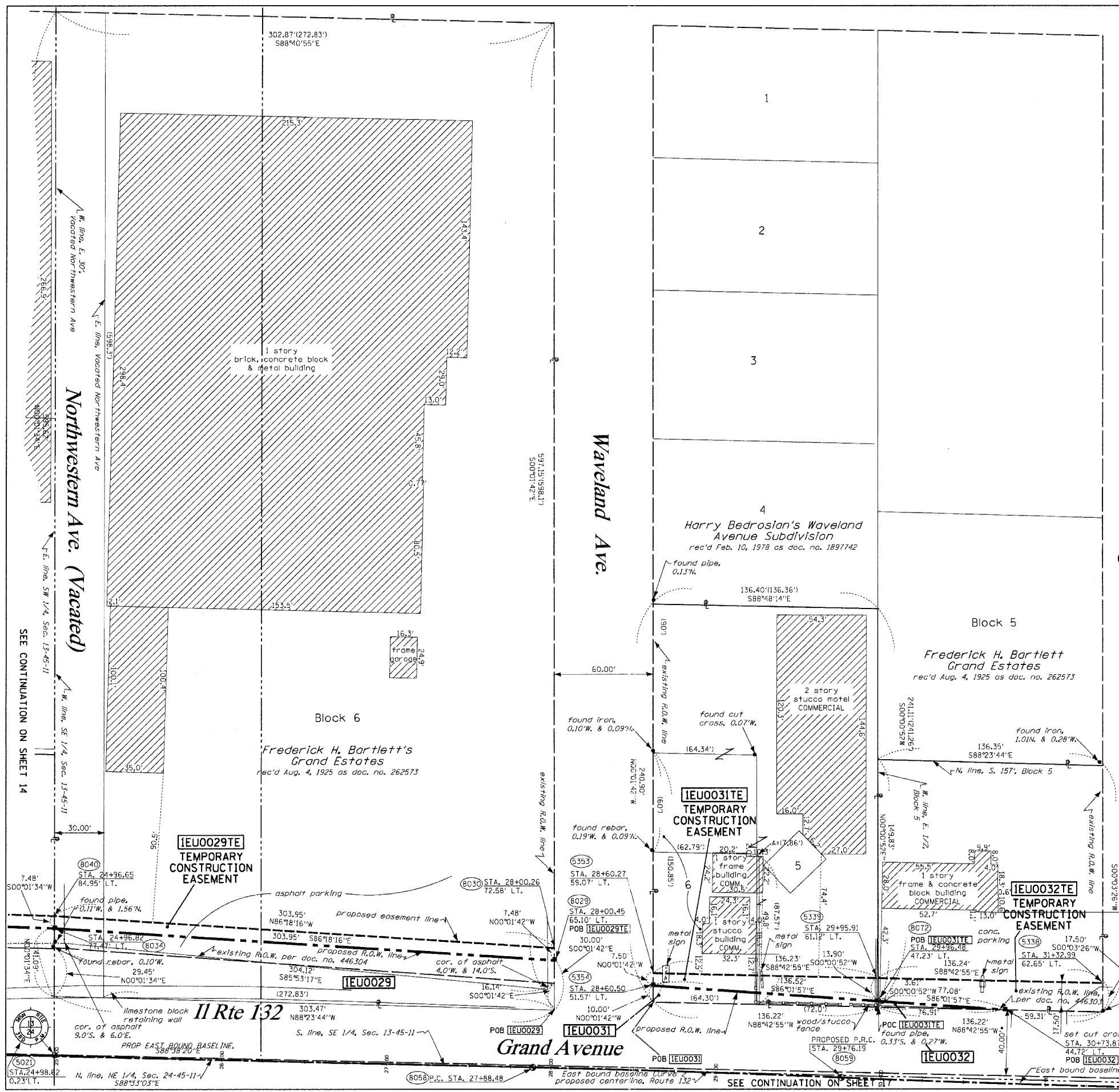
2174 ONIDA STREET
JOLIET, ILLINOIS 60439
PH. (815) 744-6600 FAX (815) 744-0101

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP 346 US 41 @ IL 132

LAKE COUNTY
JOB NO. R-91-021-02
STATION 25+00 TO STATION 31+50

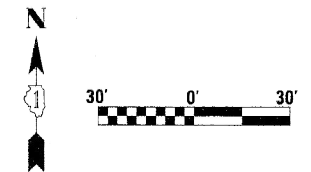
SHEET 16a OF 20
ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT
SCHAMBURG, ILLINOIS 60196

SHEET 1 OF 20 IS A COVER SHEET AND IS NOT RECORDED
R7&A 20021947 (US 41)



PART OF THE SE.1/4 OF SECTION 13, T.45N., R.11E., OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.



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 13, TOWNSHIP 45 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE 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 _____, ILLINOIS THIS _____ DAY OF _____ 20____ A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2630
 LICENSE EXPIRATION DATE: 11-30-2014

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

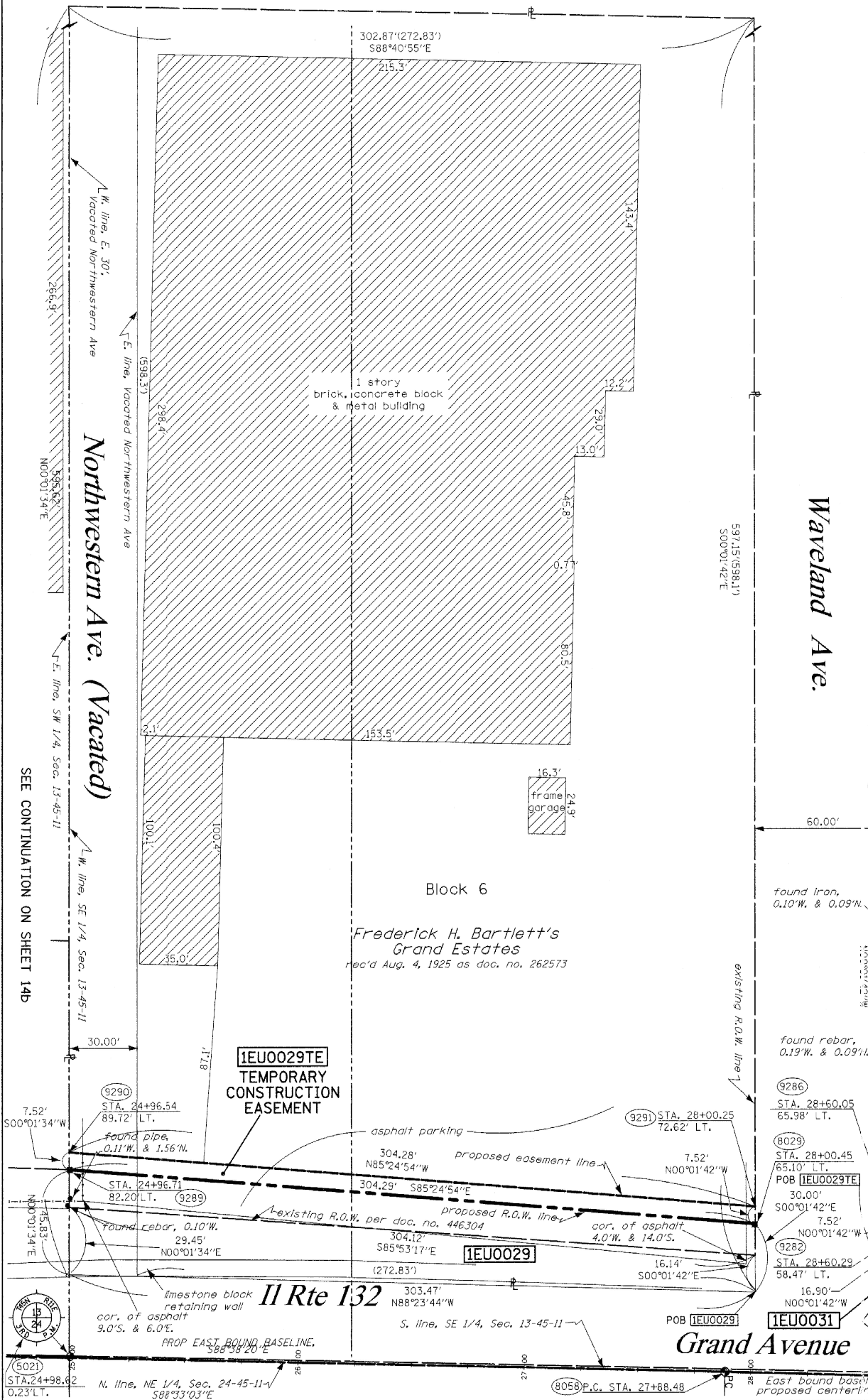
PARCEL NO.	OWNER	TOTAL HOLDING ACRES	R.O.W. REQUIRED ACRES	PREVIOUSLY DEDICATED ACRES	REMAINDER ACRES	EASEMENTS TEMP ACRES	PERM ACRES	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
1EU0029	FIVE SAC SELF-STORAGE CORPORATION, A NEVADA CORPORATION	4.149	0.264	0.159	3.885	0.052	N/A	CONSTR.	07-13-417-001	
1EU0031	GURNEE PROPERTY MANAGEMENT, INC., AN ILLINOIS CORPORATION	0.754	0.044	N/A	0.710	0.024	N/A	CONSTR.	07-13-400-059	
1EU0052	*	0.464	0.023	0.00	0.441	0.024	N/A	CONSTR.	07-13-418-015	

NOTE:

THIS PLAT WAS PREPARED AS A SUPPLEMENTAL SHEET TO SHEET 16 OF PLAT OF HIGHWAYS PREPARED BY RUETTIGER, TONELLI & ASSOC., HAVING A REVISION DATE OF 7/31/2006. SUPPLEMENTAL INFORMATION ON THIS SHEET INCLUDES:

UPDATING PARCEL 1EU0029
 UPDATING PARCEL 1EU0031
 REVISING PARCEL 1EU0032 TO 1EU0052 - REVISED JANUARY 22, 2013
 SEE RUETTIGER, TONELLI & ASSOC. PLAT FOR OTHER INFORMATION.

* CHICAGO TITLE LAND TRUST COMPANY AS SUCCESSOR TO GRAND PREMIER TRUST AND INVESTMENT, INC., FORMERLY KNOWN AS AMERICAN NATIONAL BANK AND TRUST COMPANY OF WAUKEGAN, AS TRUSTEE UNDER TRUST AGREEMENT DATED THE 14TH DAY OF JUNE, 1979 AND KNOWN AS TRUST #1893



4
 Harry Bedrosian's Waveland Avenue Subdivision
 rec'd Feb. 10, 1978 as doc. no. 1897742

Block 5
 Frederick H. Bartlett Grand Estates
 rec'd Aug. 4, 1925 as doc. no. 262573

Block 6
 Frederick H. Bartlett's Grand Estates
 rec'd Aug. 4, 1925 as doc. no. 262573

PROPOSED EAST BOUND BASELINE CURVE 2-ROUTE 132
 P.I. STA = 28+82.34
 Δ = 01°04'32"
 R = 10000.00'
 T = 93.86'
 L = 187.71'
 e = 0.44'
 CH = 187.70'
 CB = S88°06'04"E
 P.C. STA = 27+88.48
 P.T. STA = 29+76.19

PROPOSED EAST BOUND BASELINE CURVE 3-ROUTE 132
 P.I. STA = 30+76.71
 Δ = 01°09'06"
 R = 10000.00'
 T = 100.52'
 L = 201.02'
 e = 0.51'
 CH = 201.02'
 CB = S88°08'21"E
 P.C. STA = 29+76.19
 P.T. STA = 31+77.21

LEGEND

- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PROPERTY (DEED) LINE
- APL
- APPROXIMATE PROPERTY LINE
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORDED DIMENSION
- FOUND IRON PIPE OR IRON ROD
- SET 3/8" INCH IRON ROD
- PERMANENT SURVEY MONUMENT
- I.O.T. STD. 2135 (TO BE SET BY OTHERS)
- CUT CROSS FOUND OR SET
- SAME OWNERSHIP
- EXISTING TELEPHONE SPLICE BOX
- EXISTING STREET LIGHT
- EXISTING MAIL BOX
- EXISTING WELL HEAD
- STAKING OF PROPOSED RIGHT OF WAY. SET 3/8" INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET 3/8" INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- SECTION CORNER
- QUARTER SECTION CORNER

* DENOTES DISTANCE TO THE EXISTING CENTERLINE OF ROUTE 132
 SEE SHEETS 18 THROUGH 20 FOR MONUMENTATION REFERENCE TIES AND COORDINATES

RECEIVED
 JUN 23 2013
PLATS & LEGALS

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

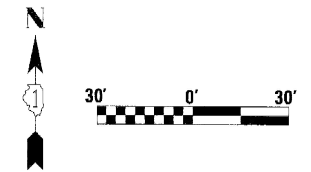
PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 FAP 346 US 41 @ IL 132

LIMITS: COUNTY: LAKE
 PROJECT: JOB NO.: R91-021-02
 STATION 11+86.94 TO STATION 16+50
 SCALE: 1"=20' SHEET 16b OF 20

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

PART OF THE SE.1/4 OF SECTION 13, T.45N., R.11E., OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.



STATE OF ILLINOIS)
COUNTY OF WILL)

THIS IS TO CERTIFY THAT I, KENNETH J. PESAVENTO, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, (WE, RUETTIGER, TONELLI & ASSOCIATES, AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-001251.) HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 13, TOWNSHIP NORTH, RANGE EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE 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.

FIELD WORK COMPLETED 9-3-2015

DATED AT _____, ILLINOIS THIS ___ DAY OF _____ 20__ A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3425
LICENSE EXPIRATION DATE: 11-30-2016

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

PARCEL NO.	OWNER	TOTAL HOLDING	R.O.W. REQUIRED	PREVIOUSLY DEDICATED	REMAINDER	EASEMENTS		EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
		ACRES	ACRES	ACRES	ACRES	TEMP. ACRES	PERM. ACRES			
1EU03029	FIVE SAC SELF-STORAGE CORPORATION, A NEVADA CORPORATION	3.885	N/A	N/A	3.885	0.052	N/A	CONSTR.	07-13-417-002	

NOTE 1:

THIS PLAT WAS PREPARED AS A SUPPLEMENTAL SHEET TO SHEET 16 OF PLAT OF HIGHWAYS PREPARED BY RUETTIGER, TONELLI & ASSOC. HAVING A REVISION DATE OF 7/31/2006. SUPPLEMENTAL INFORMATION ON THIS SHEET INCLUDES:

UPDATING PARCEL 1EU0029

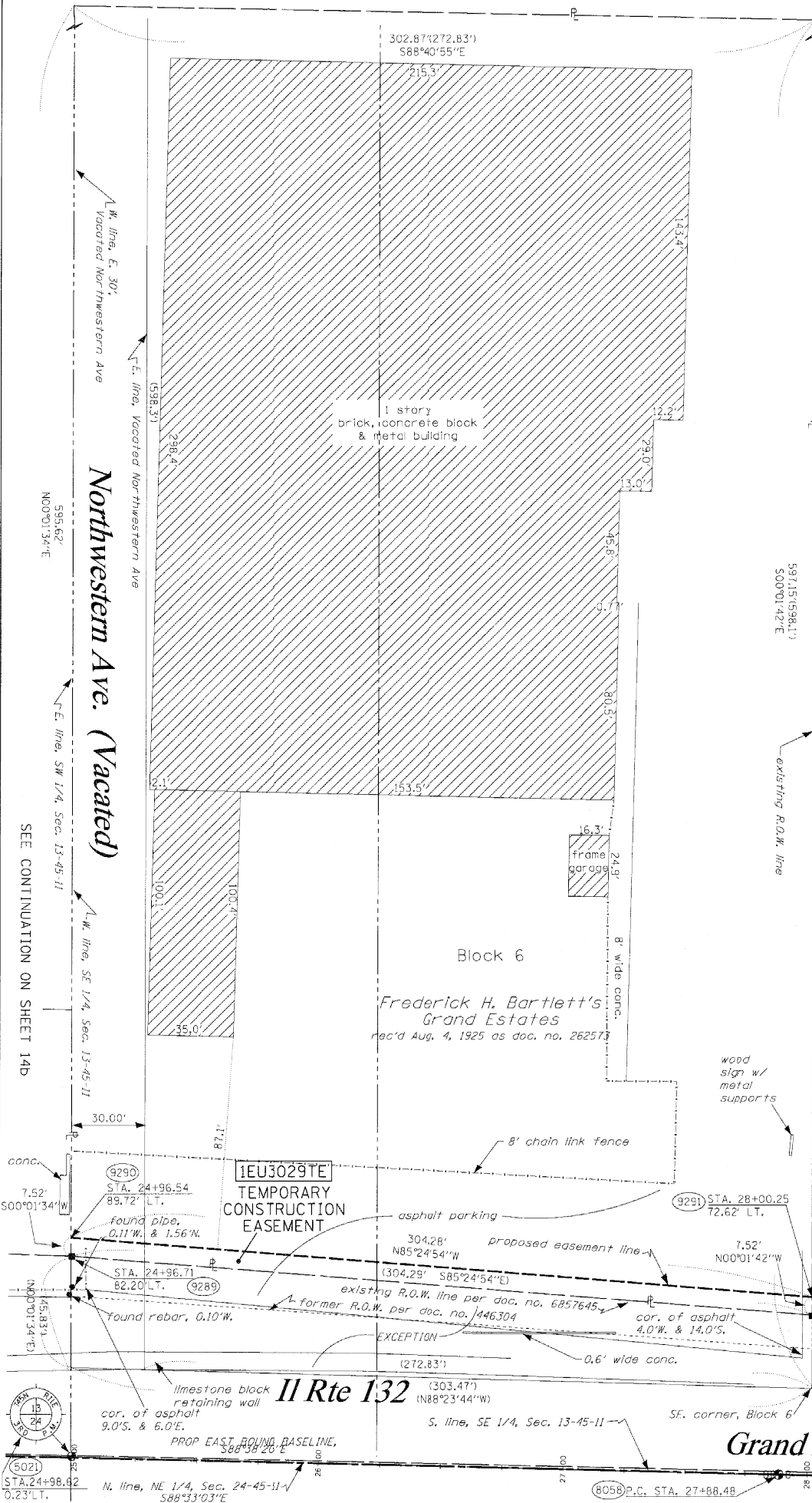
UPDATING PARCEL 1EU0031

REVISING PARCEL 1EU0032 TO 1EU0052 - REVISED JANUARY 22, 2013

SEE RUETTIGER, TONELLI & ASSOC. PLAT FOR OTHER INFORMATION.

NOTE 2:

THIS PLAT WAS PREPARED 9-8-2015, AFTER THE RECORDING OF THE PREVIOUS PLAT OF HIGHWAYS TO RE-ESTABLISH THE PROPOSED EASEMENT FOR 1EU0029TE AS 1EU3029TE.



PROPOSED EAST BOUND
BASELINE CURVE 2-ROUTE 132
P.I. STA = 28+82.34
Δ = 01°04'32"
R = 10000.00'
T = 93.86'
L = 187.71'
e = 0.44'
CH = 187.70'
CB = S88°06'04"E
P.C. STA = 27+88.48
P.T. STA = 29+76.19

PROPOSED EAST BOUND
BASELINE CURVE 3-ROUTE 132
P.I. STA = 30+76.71
Δ = 01°09'06"
R = 10000.00'
T = 100.52'
L = 201.02'
e = 0.51'
CH = 201.02'
CB = S88°08'21"E
P.C. STA = 29+76.19
P.T. STA = 31+77.21

LEGEND

- EXISTING CENTERLINE
- - - PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- - - PROPOSED RIGHT OF WAY LINE
- - - PROPOSED EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- 121.45 MEASURED DIMENSION
- 123.45 (COMP) COMPUTED DIMENSION
- (123.45) RECORDED DIMENSION
- FOUND IRON PIPE OR IRON ROD
- SET 3/8 INCH IRON ROD PERMANENT SURVEY MONUMENT
- ⊙ I.O.G.T. STD. 2135 (TO BE SET BY OTHERS)
- + CUT CROSS FOUND OR SET
- SAME OWNERSHIP
- TEL EXISTING TELEPHONE SPLICE BOX
- LGT EXISTING STREET LIGHT
- MAIL EXISTING MAIL BOX
- WELL EXISTING WELL HEAD
- STAKING OF PROPOSED RIGHT OF WAY. SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY 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. SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- SECTION CORNER
- QUARTER SECTION CORNER

RT & A Ruettiger, Tonelli & Associates, Inc.
Surveyors • Engineers • Planners • Landscape Architects • GIS Consultants
129 CARISTA DRIVE • STURGEWOOD, ILLINOIS 60404
TEL: (815) 744-6600 FAX: (815) 744-0301
www.ruettiger-tonelli.com
R.T. & A. Dwg. No.: 2002-1947-00

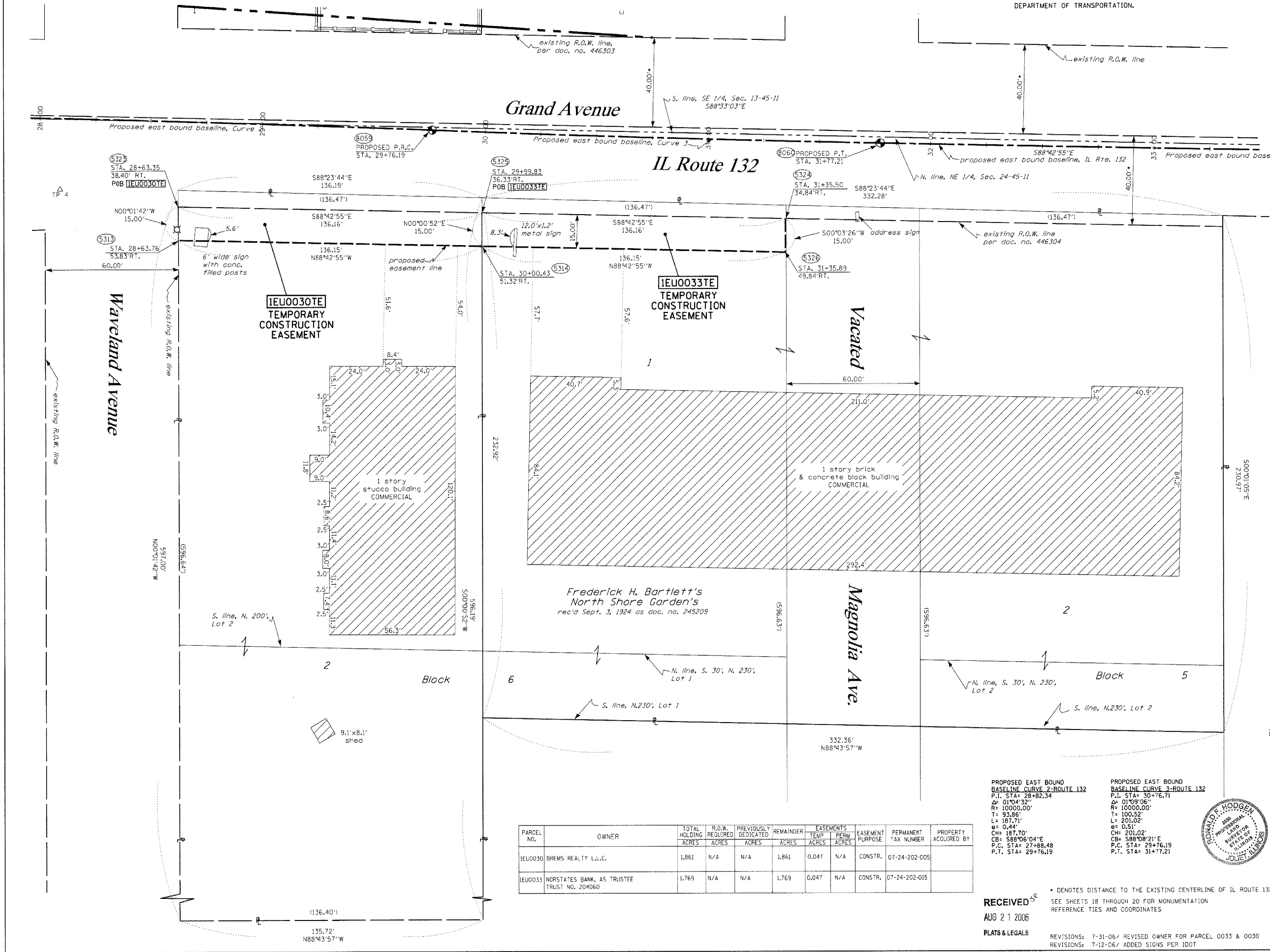
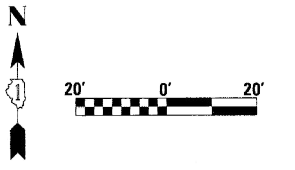
PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FAP 346 US 41 @ IL 132

LIMITS: COUNTY: LAKE
PROJECT: JOB NO.: R91-021-02
STATION 11+86.94 TO STATION 16+50
SCALE: 1"=20' SHEET 16c OF 20

SS RECEIVED
OCT 08 2015
PLATS & LL'S

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

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.



LEGEND

- EXISTING CENTERLINE
- - - PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- - - PROPOSED RIGHT OF WAY LINE
- - - PROPOSED EASEMENT LINE
- SECTION LINE
- - - QUARTER SECTION LINE
- - - QUARTER QUARTER SECTION LINE
- - - PROPERTY (DEED) LINE

APL

- 121.45 MEASURED DIMENSION
- 123.45 (COMP) COMPUTED DIMENSION
- (123.45) RECORDED DIMENSION
- FOUND IRON PIPE OR IRON ROD
- o SET 3/8 INCH IRON ROD
- ⊙ PERMANENT SURVEY MONUMENT
- ⊙ I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- + CUT CROSS FOUND OR SET
- SAME OWNERSHIP
- TEL EXISTING TELEPHONE SPLICE BOX
- LG7 EXISTING STREET LIGHT
- MAIL EXISTING MAIL BOX
- WELL EXISTING WELL HEAD
- STAKING OF PROPOSED RIGHT OF WAY, SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS, SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

SECTION CORNER (2112) QUARTER SECTION CORNER (2726)

STATE OF ILLINOIS)
 COUNTY OF WILL)

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 24, TOWNSHIP 45 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE 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 29th DAY OF AUGUST 2006.

RONALD F. HODGEN P.L.S. NO. 2630

RUETTIGER, TONELLI & ASSOCIATES, INC.
 Land Surveyors/Engineers/Planners/Landscape Architects/C.I.S. Consultants
 214 ONEIDA STREET JOLIET, ILLINOIS 60438
 PH. (815) 744-6600 FAX (815) 744-0101 PH. (630) 420-1740 FAX (630) 420-7741

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
 FAP 346 US 41 @ IL 132

LAKE COUNTY
 JOB NO. R-91-021-02
 STATION 28+00 TO STATION 33+50

PROPOSED EAST BOUND BASELINE CURVE 2-ROUTE 132
 P.I. STA= 28+82.34
 Δ= 01°04'32"
 R= 10000.00'
 T= 93.96'
 L= 187.71'
 e= 0.44'
 Ch= 187.70'
 CB= 588°06'04"E
 P.C. STA= 27+88.48
 P.T. STA= 29+76.19

PROPOSED EAST BOUND BASELINE CURVE 3-ROUTE 132
 P.I. STA= 30+76.71
 Δ= 01°09'06"
 R= 10000.00'
 T= 100.52'
 L= 201.02'
 e= 0.51'
 Ch= 201.02'
 CB= 588°08'21"E
 P.C. STA= 29+76.19
 P.T. STA= 31+77.21

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	R.O.W. REQUIRED ACRES	PREVIOUSLY DEDICATED ACRES	REMAINDER ACRES	TEMP EASEMENTS ACRES	PERM EASEMENTS ACRES	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
1EJ0030	BREMS REALTY L.L.C.	1.861	N/A	N/A	1.861	0.047	N/A	CONSTR.	07-24-202-005	
1EJ0033	NORSTATES BANK, AS TRUSTEE TRUST NO. 204060	1.769	N/A	N/A	1.769	0.047	N/A	CONSTR.	07-24-202-015	

RECEIVED AUG 21 2006
 PLATS & LEGALS

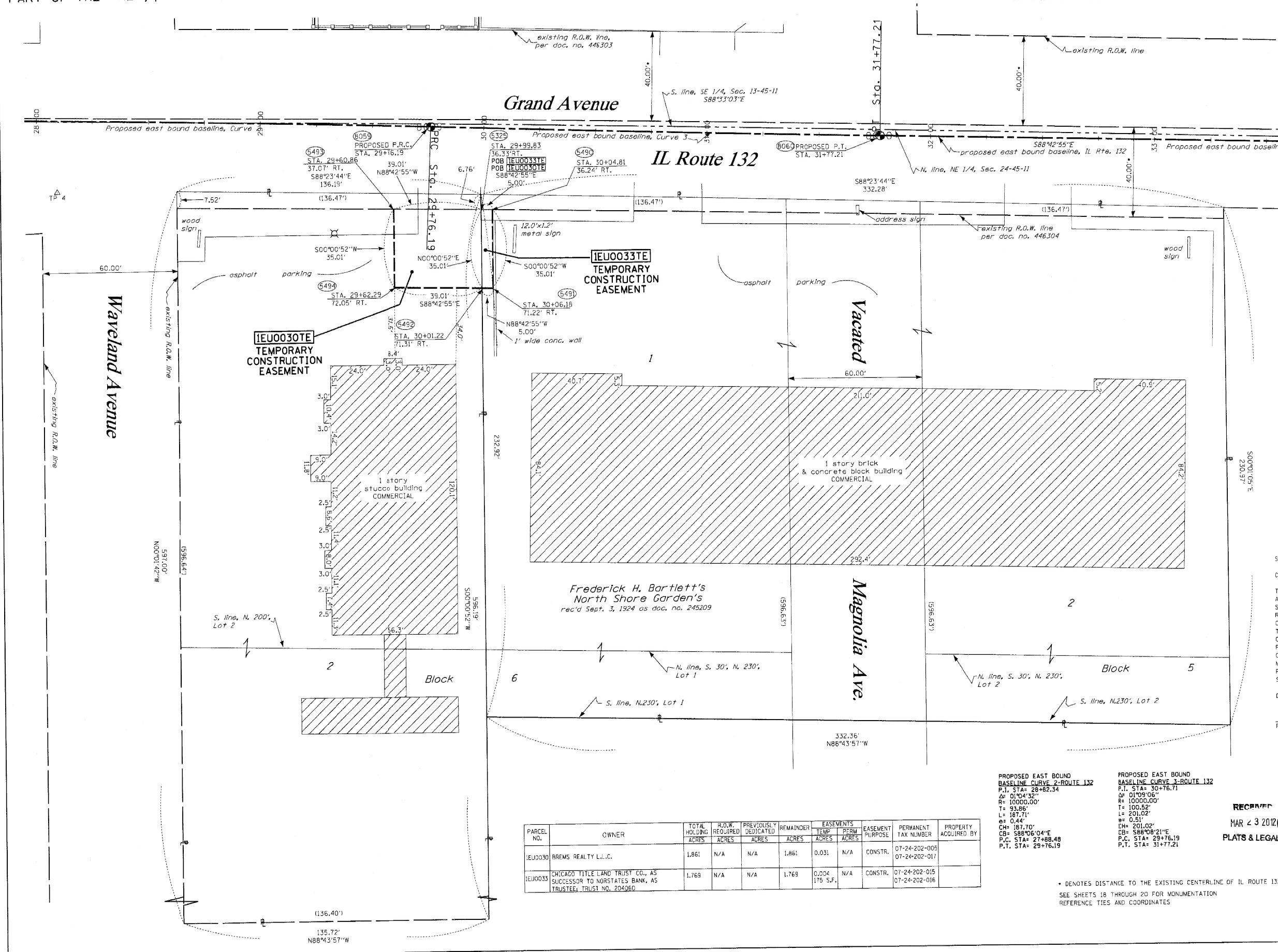
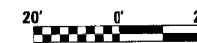
• DENOTES DISTANCE TO THE EXISTING CENTERLINE OF IL ROUTE 132
 SEE SHEETS 18 THROUGH 20 FOR MONUMENTATION REFERENCE TIES AND COORDINATES

REVISIONS: 7-31-06/ REVISED OWNER FOR PARCEL 0033 & 0030
 REVISIONS: 7-12-06/ ADDED SIGNS PER IDOT

SHEET 17 OF 20

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/DISTRICT 1
 201 WEST CENTER COURT
 SCHAMBURG, ILLINOIS 60196

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.



- LEGEND**
- EXISTING CENTERLINE
 - PROPOSED CENTERLINE
 - EXISTING RIGHT OF WAY LINE
 - PROPOSED RIGHT OF WAY LINE
 - PROPOSED EASEMENT LINE
 - SECTION LINE
 - QUARTER SECTION LINE
 - QUARTER QUARTER SECTION LINE
 - PROPERTY IDEED LINE
 - AP APPARENT PROPERTY LINE
 - MEASURED DIMENSION
 - 121.45 COMPUTED DIMENSION
 - 123.45 (COMP)
 - 123.45 RECORDED DIMENSION
 - FOUND IRON PIPE OR IRON ROD
 - SET 1/8 INCH IRON ROD
 - PERMANENT SURVEY MONUMENT
 - I.D.O.T. STD. 235 (TO BE SET BY OTHERS)
 - ⊕ CUT CROSS FOUND OR SET
 - SAME OWNERSHIP
 - TEL EXISTING TELEPHONE SPlice BOX
 - LGT EXISTING STREET LIGHT
 - MAIL EXISTING MAIL BOX
 - WELL EXISTING WELL HEAD
 - STAKING OF PROPOSED RIGHT OF WAY. SET 1/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
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 - SECTION CORNER
 - QUARTER SECTION CORNER

STATE OF ILLINOIS)
COUNTY OF WILL)

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 24, TOWNSHIP 45 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE 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 _____ DAY OF _____, A.D.

RONALD F. HODGEN P.L.S. NO. 2630

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP 346 US 41 @ IL 132
LAKE COUNTY
JOB NO. R-91-021-02
STATION 28+00 TO STATION 33+50

RECEIVED
MAR 23 2012
PLATS & LEGALS

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT
SCHALNBURG, ILLINOIS 60156

PROPOSED EAST BOUND BASELINE CURVE 2-ROUTE 132
P.T. STA= 29+62.34
Δ= 01°04'32"
R= 10000.00'
T= 100.52'
L= 187.71'
e= 0.44'
CH= 187.70'
CB= S88°06'04"E
P.C. STA= 27+88.48
P.T. STA= 29+76.19

PROPOSED EAST BOUND BASELINE CURVE 3-ROUTE 132
P.T. STA= 30+76.71
Δ= 01°09'06"
R= 10000.00'
T= 100.52'
L= 201.02'
e= 0.51'
CH= 201.02'
CB= S88°08'21"E
P.C. STA= 29+76.19
P.T. STA= 31+77.21

PARCEL NO.	OWNER	TOTAL HOLDING	R.O.W. REQUIRED	PREVIOUSLY DEDICATED	REMAINDER	EASEMENTS		EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
		ACRES	ACRES	ACRES	ACRES	TEMP	PERM			
1EJ0030	BREMS REALTY L.L.C.	1.861	N/A	N/A	1.861	0.031	N/A	CONSTR.	07-24-202-005 07-24-202-017	
1EJ0033	CHICAGO TITLE LAND TRUST CO., AS SUCCESSOR TO NORSTATES BANK, AS TRUSTEE; TRUST NO. 204060	1.769	N/A	N/A	1.769	0.004	175 S.F.	CONSTR.	07-24-202-015 07-24-202-016	

* DENOTES DISTANCE TO THE EXISTING CENTERLINE OF IL ROUTE 132
SEE SHEETS 16 THROUGH 20 FOR MONUMENTATION REFERENCE TIES AND COORDINATES

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.



LEGEND

- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER SECTION LINE
- PROPERTY (CED) LINE
- APL
- 121.45 MEASURED DIMENSION
- 123.45 (COMP) COMPUTED DIMENSION
- 1123.45(1) RECORDED DIMENSION
- FOUND IRON PIPE OR IRON ROD
- SET 3/8 INCH IRON ROD
- PERMANENT SURVEY MONUMENT, I.O.O.F., STD. 2135 (TO BE SET BY OTHERS)
- ⊕ CUT CROSS FOUND OR SET
- SAME OWNERSHIP
- ⊕ TEL EXISTING TELEPHONE SPlice BOX
- ⊕ LOT EXISTING STREET LIGHT
- ⊕ MAIL BOX EXISTING MAIL BOX
- ⊕ WELL EXISTING WELL HEAD
- STAKING OF PROPOSED RIGHT OF WAY, SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
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STATE OF ILLINOIS)
 COUNTY OF WILL) SS

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 24, TOWNSHIP 45 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE 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 14th DAY OF February A.D. 2007
 Ronald F. Hodgen
 RONALD F. HODGEN P.L.S. NO. 2830

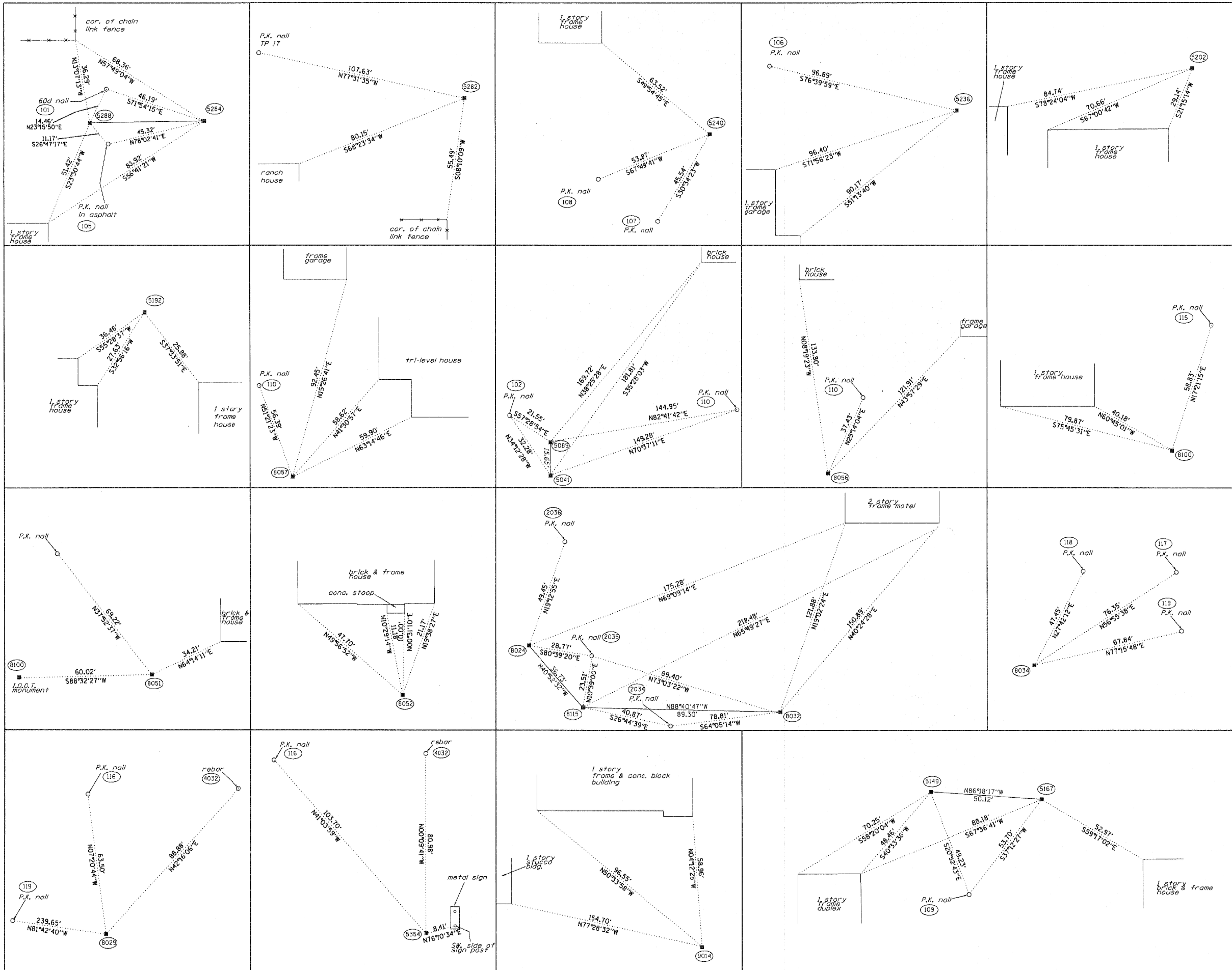
REVISED 2-6-07 / REVISED TIES

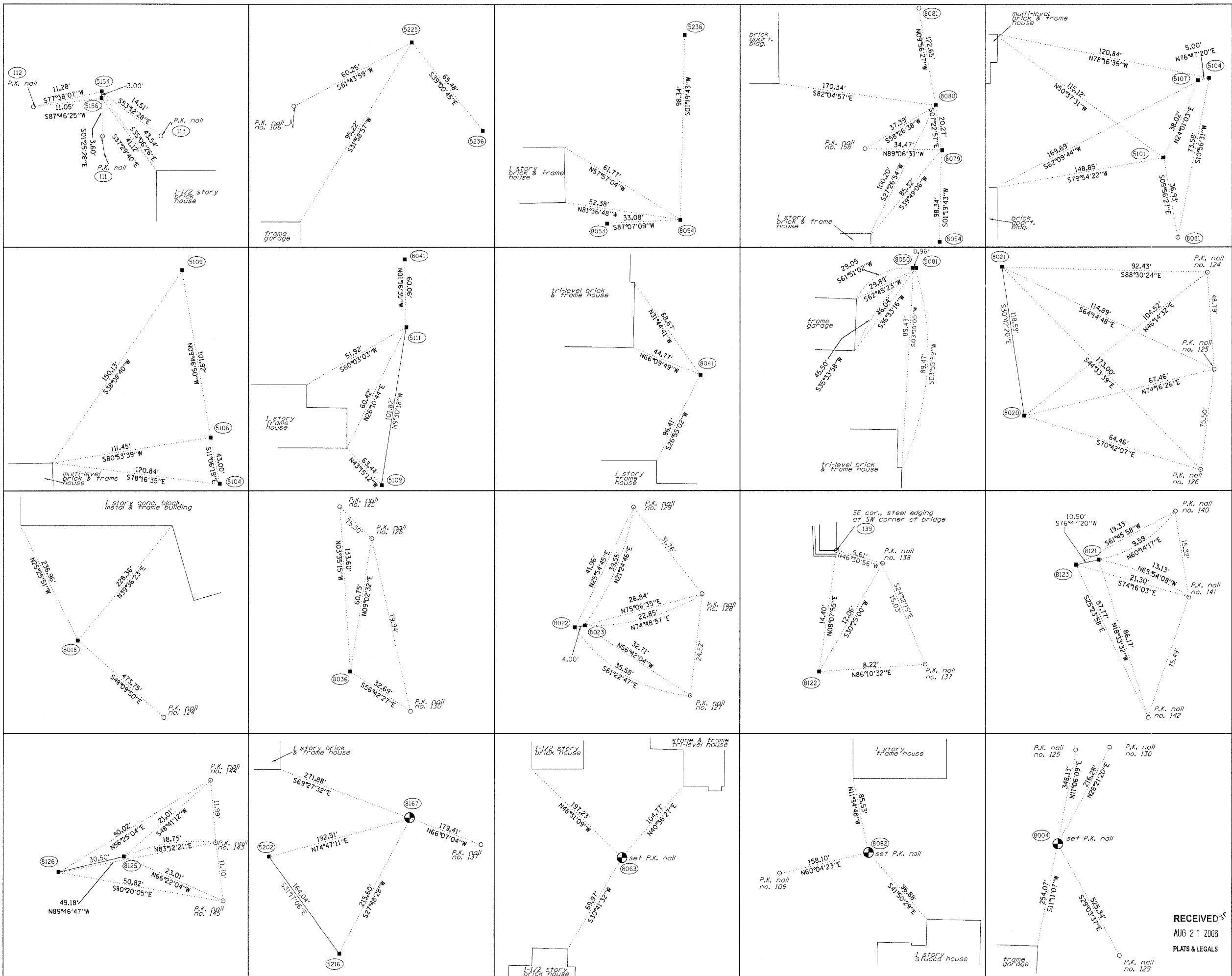
RUETTIGER, TONELLI & ASSOCIATES, INC.
 Land Surveyors/Engineers/Planners/Landscape Architects/C.I.S. Consultants
 214 ONEIDA STREET 2630 SOUTH WASHINGTON STREET SUITE 110
 JOLIET, ILLINOIS 60435 NAVERVILLE, ILLINOIS 60563
 PH. (815) 744-6600 FAX (815) 744-0101 PH. (630) 420-7740 FAX (630) 420-7741

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
 FAP 346 US 41 @ IL 132
 LAKE COUNTY
 JOB NO. R-91-021-02

SHEET 18 OF 20
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/DISTRICT 1
 201 WEST CENTER COURT
 SCHMALBURG, ILLINOIS 60196

SHEET 1 OF 20 IS A COVER SHEET AND IS NOT RECORDED
 RT&A 20021947 (US 41)

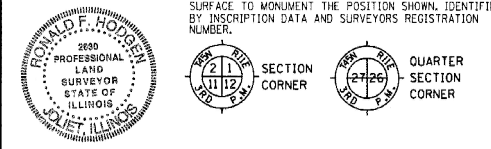




BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.



- LEGEND**
- EXISTING CENTERLINE
 - - - PROPOSED CENTERLINE
 - EXISTING RIGHT OF WAY LINE
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 - 121.45 MEASURED DIMENSION
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 - FOUND IRON PIPE OR IRON ROD
 - SET 3/4 INCH IRON ROD
 - PERMANENT SURVEY MONUMENT
 - I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
 - + CUT CROSS FOUND OR SET
 - SAME OWNERSHIP
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 - LGT EXISTING STREET LIGHT
 - MAIL EXISTING MAIL BOX
 - WELL EXISTING WELL HEAD
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 - M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET 3/4 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.



STATE OF ILLINOIS)
COUNTY OF WILL) SS

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 24, TOWNSHIP 45 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, ILLINOIS. THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

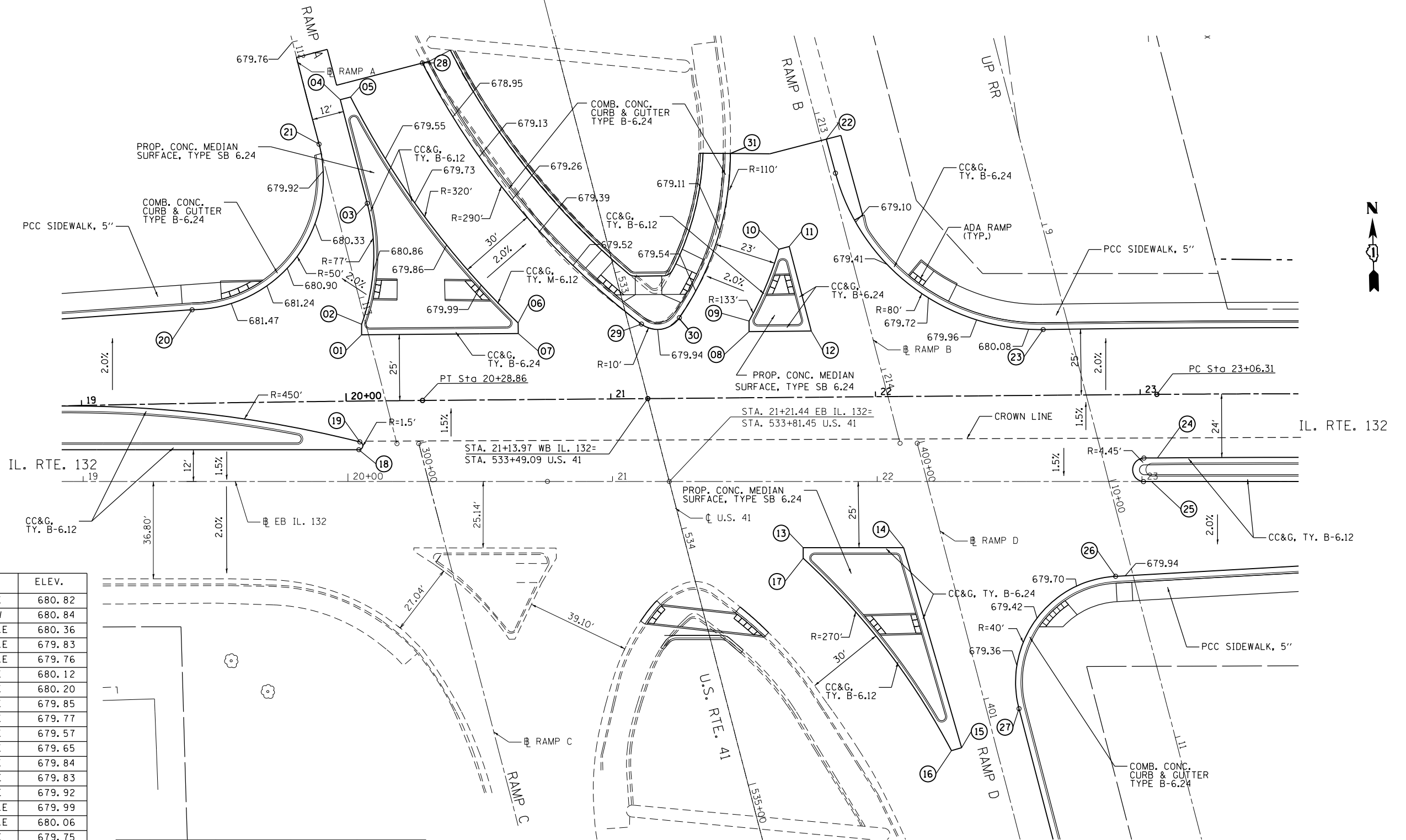
DATED 27 JULY, ILLINOIS THIS 27th DAY OF AUGUST, 2006.
RONALD F. HODGEN P.L.S. NO. 2630

RUETTIGER, TONELLI & ASSOCIATES, INC.
Lead Surveyors/Engineers/Planners/Landscape Architects/O.J.S. Consultants
2174 ONEIDA STREET JOLIET, ILLINOIS 60435
PH. (815) 744-8600 FAX (815) 744-0101

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP 346 US 41 @ IL 132
LAKE COUNTY
JOB NO. R-91-021-02

RECEIVED
AUG 21 2006
PLATS & LEGALS

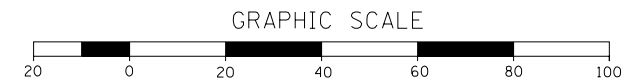
ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196



POINT TABLE

POINT	STATION	OFFSET	CHAIN	ELEV.
01	20+06.20	55.42' LT	IL132E	680.82
02	20+05.17	59.42' LT	IL132W	680.84
03	112+66.06	12.00' LT	RAMPA_E	680.36
04	112+25.61	12.00' LT	RAMPA_E	679.83
05	112+25.61	16.00' LT	RAMPA_E	679.76
06	20+64.32	59.91' LT	IL132E	680.12
07	20+64.35	55.91' LT	IL132E	680.20
08	21+51.59	56.63' LT	IL132E	679.85
09	21+51.56	60.63' LT	IL132E	679.77
10	21+62.89	87.74' LT	IL132E	679.57
11	21+66.72	88.79' LT	IL132E	679.65
12	21+75.06	56.83' LT	IL132E	679.84
13	21+72.03	25.00' RT	IL132E	679.83
14	22+09.95	25.00' RT	IL132E	679.92
15	401+15.54	12.71' RT	RAMPD_E	679.99
16	401+15.66	16.71' RT	RAMPD_E	680.06
17	21+72.03	29.00' RT	IL132E	679.75
18	20+04.61	12.00' LT	IL132E	681.53
19	20+04.51	14.95' LT	IL132E	681.57
20	19+41.14	64.89' LT	IL132E	681.89
21	112+39.84	0.00' LT	RAMPA_E	679.78
22	213+10.34	1.95' LT	RAMPB_E	679.55
23	22+62.68	57.40' LT	IL132E	680.08
24	23+05.84	8.91' LT	IL132E	680.82
25	23+03.61	0.00' LT	IL132E	680.70
26	22+90.06	35.83' RT	IL132E	680.00
27	401+06.74	12.00' LT	RAMPD_E	679.54

POINT	STATION	OFFSET	CHAIN	ELEV.
28	112+19.99	45.09' LT	RAMPA_E	679.19
29	21+11.81	59.48' LT	IL132E	679.94
30	21+25.12	61.69' LT	IL132E	679.84
31	213+06.45	34.51' RT	RAMPD_E	678.92



FILE NAME = ...DI_IL132_SHT_INTERSEC2.dwg
 USER NAME = aafitzpatrick
HOH
 HARRY O. HOFFER ASSOCIATES, INC.
 DESIGN AND CONSULTING ENGINEERS
 55 East Jackson Blvd., Suite 600
 Chicago, Illinois 60604
 312/246-8313
3366

DESIGNED - AAF
 DRAWN - AAF
 CHECKED - BAP
 DATE -
 REVISED -
 REVISED -
 REVISED -
 REVISED -
 PLOT SCALE = 48.0000' / in.
 PLOT DATE = 10/7/2016

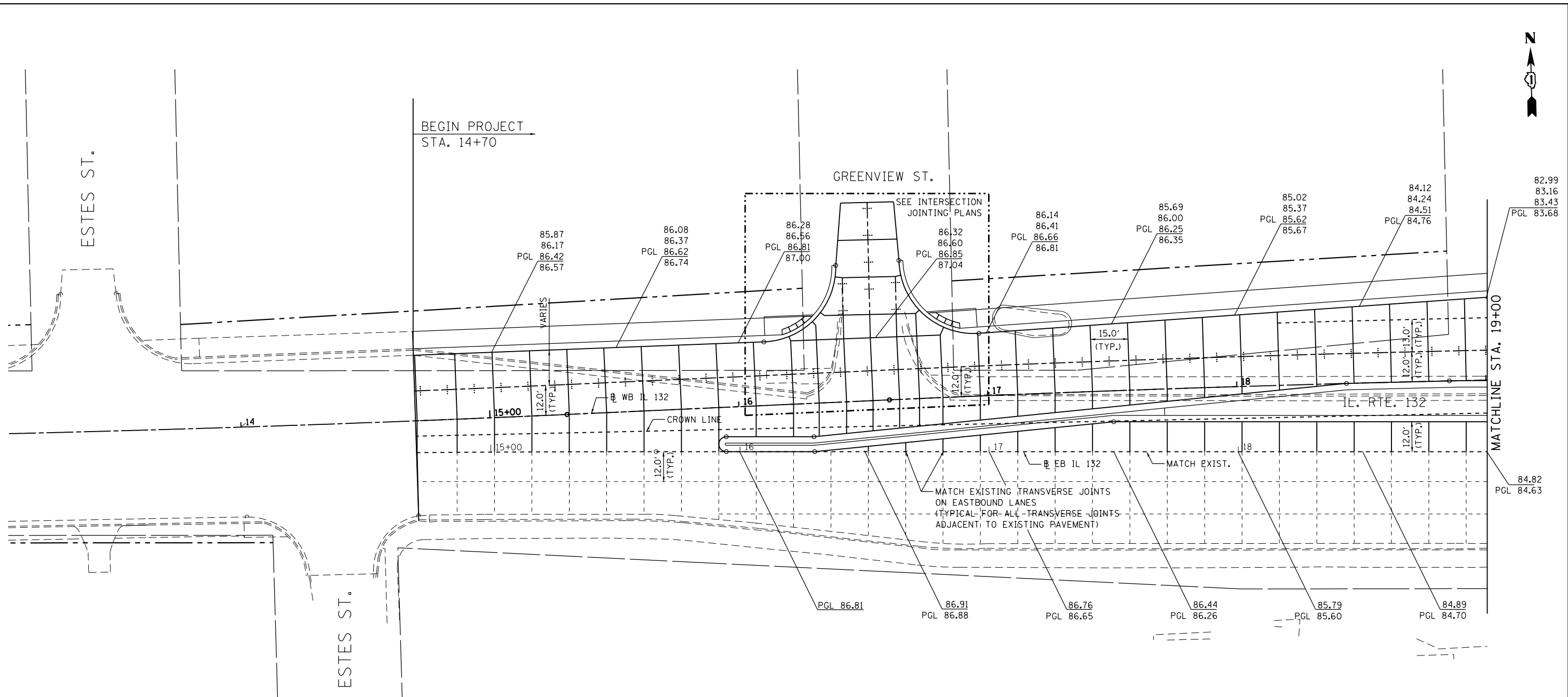
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 41 AND ILLINOIS ROUTE 132
 INTERSECTION PLAN
 SCALE: 1"=20'
 SHEET NO. 1 OF 1 SHEETS
 STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N&J-SB-B	LAKE	361	116

CONTRACT NO. 60K80

ILLINOIS FED. AID PROJECT

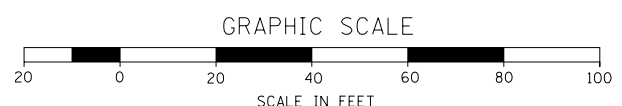


LEGEND

- ===== LONGITUDINAL DOWELED JOINT (IDOT STD. 420001)
- TRANSVERSE CONTRACTION JOINT (IDOT STD. 420001)
- - - - - LONGITUDINAL SAWED JOINT (IDOT STD. 420001)
- LONGITUDINAL CONSTRUCTION JOINT (IDOT STD. 420001)
- PAVEMENT SEPARATION JOINT (D-1 STANDARD BD52)
- EXISTING PAVEMENT JOINT (EXACT LOCATIONS TO BE DETERMINED IN THE FIELD)

NOTES:

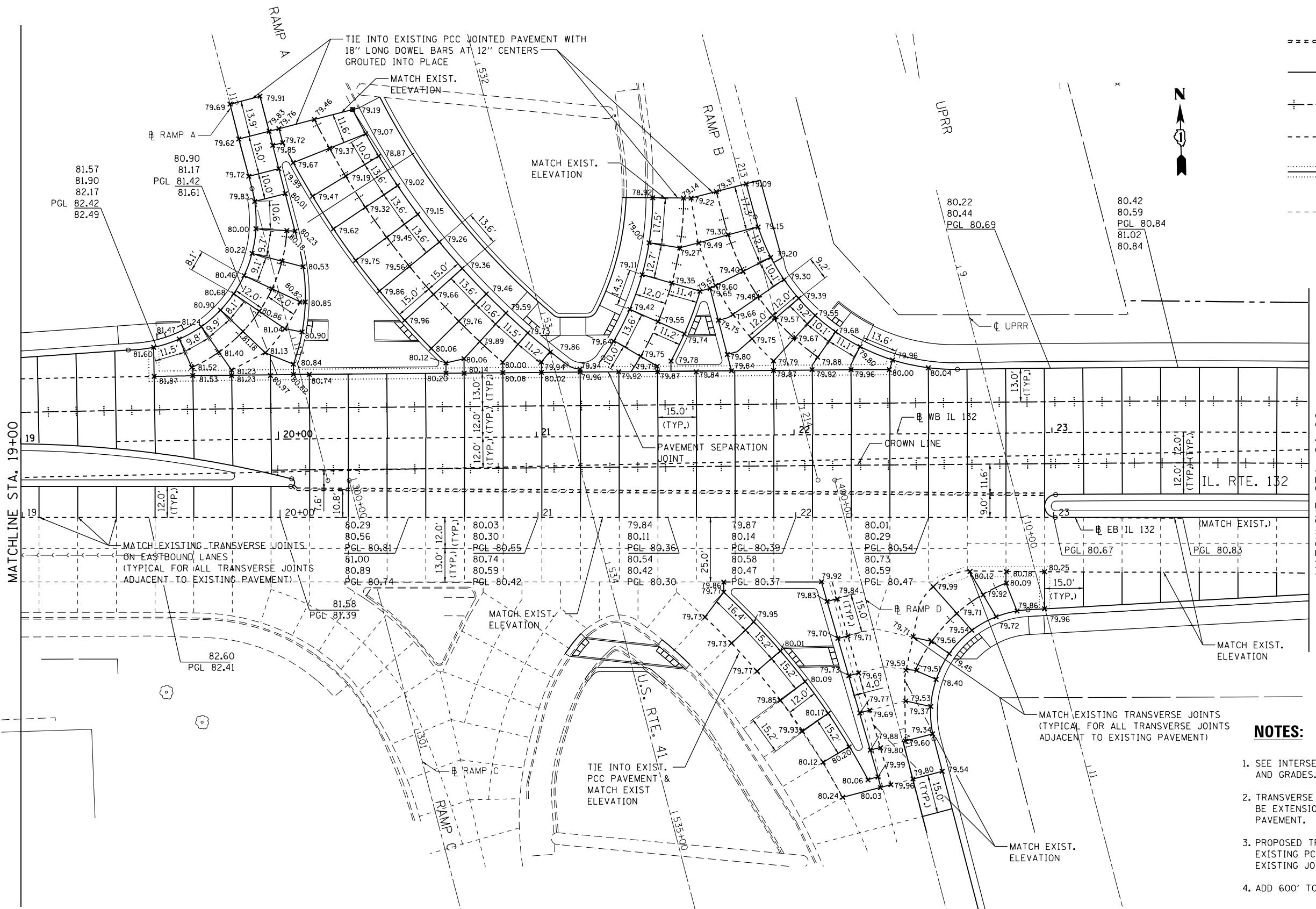
1. TRANSVERSE JOINTS IN THE CURBS AND MEDIANS SHALL BE EXTENSIONS OF THE TRANSVERSE JOINTS IN THE PAVEMENT.
2. PROPOSED TRANSVERSE JOINTS BUILT ADJACENT TO EXISTING PCC JOINTED PAVEMENT SHALL MATCH THE EXISTING JOINTS LOCATIONS WHERE POSSIBLE.
3. ADD 600' TO ELEVATIONS TO OBTAIN TRUE ELEVATION.



FILE NAME = ...\\D1.IL132_SHT_JOINTINT1.dgn HOH HARRY O. HEFTER ASSOCIATES, INC. DESIGN AND CONSULTING ENGINEERS 3366 55 East Jackson Blvd., Suite 600 Chicago, Illinois 60604 312/346-8931	USER NAME = aafitzpatrick	DESIGNED - AAF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ILLINOIS ROUTE 132 JOINTING PLAN			F.A.P. RTE. 346	SECTION 125X-N&J-SB-B	COUNTY LAKE	TOTAL SHEETS 361	SHEET NO. 117
	PLOT SCALE = 40.0000' / in.	CHECKED - BAP	REVISED -		SCALE: 1"=20'	SHEET NO. 1 OF 4 SHEETS	STA. 14+70	TO STA. 19+00	CONTRACT NO. 60K80		ILLINOIS FED. AID PROJECT	
PLOT DATE = 10/7/2016	DATE -	REVISED -	REVISED -									

LEGEND

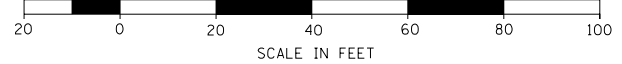
- ===== LONGITUDINAL DOWELED JOINT (IDOT STD. 420001)
- TRANSVERSE CONTRACTION JOINT (IDOT STD. 420001)
- +---+--- LONGITUDINAL SAWED JOINT (IDOT STD. 420001)
- LONGITUDINAL CONSTRUCTION JOINT (IDOT STD. 420001)
- PAVEMENT SEPARATION JOINT (D-1 STANDARD BD52)
- EXISTING PAVEMENT JOINT (EXACT LOCATIONS TO BE DETERMINED IN THE FIELD)



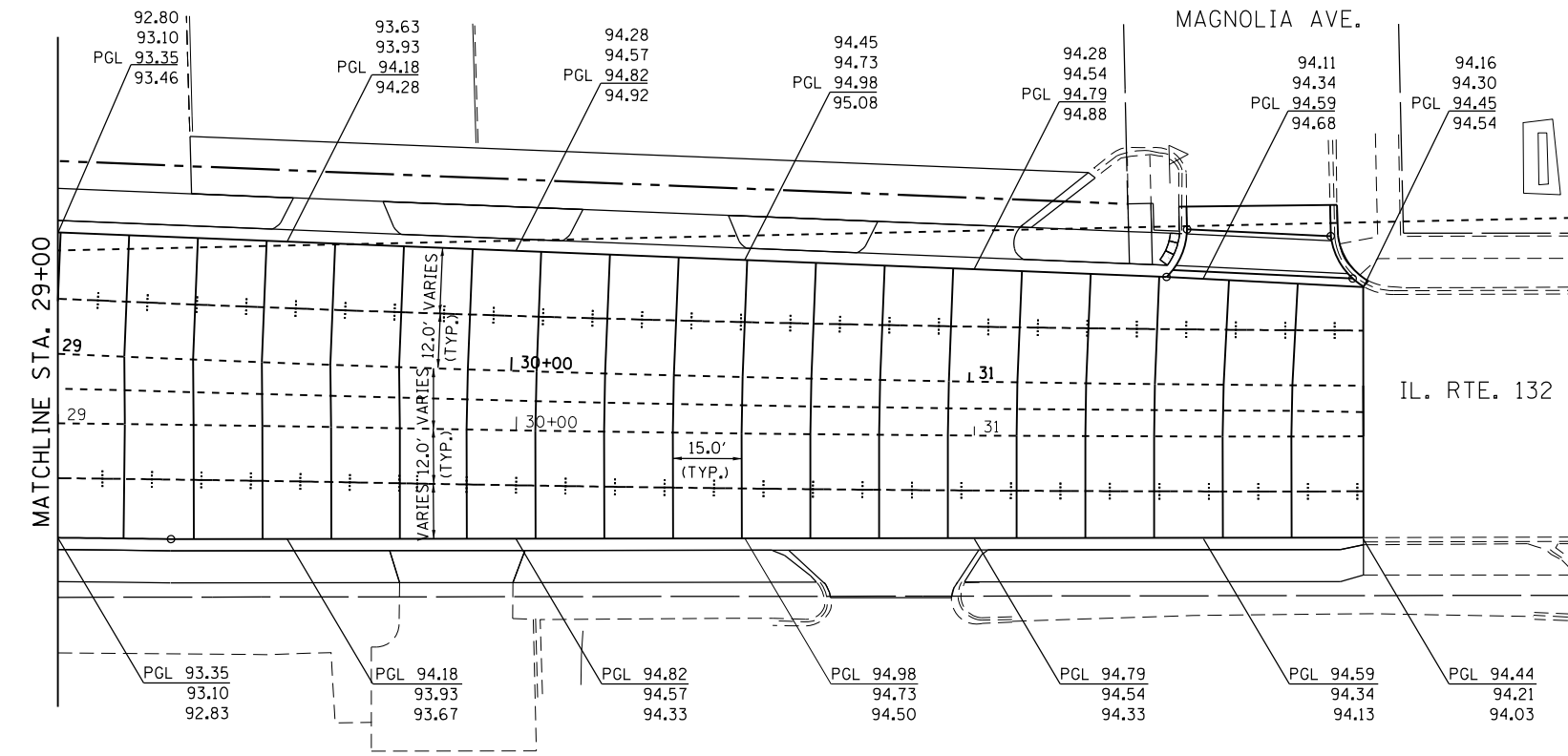
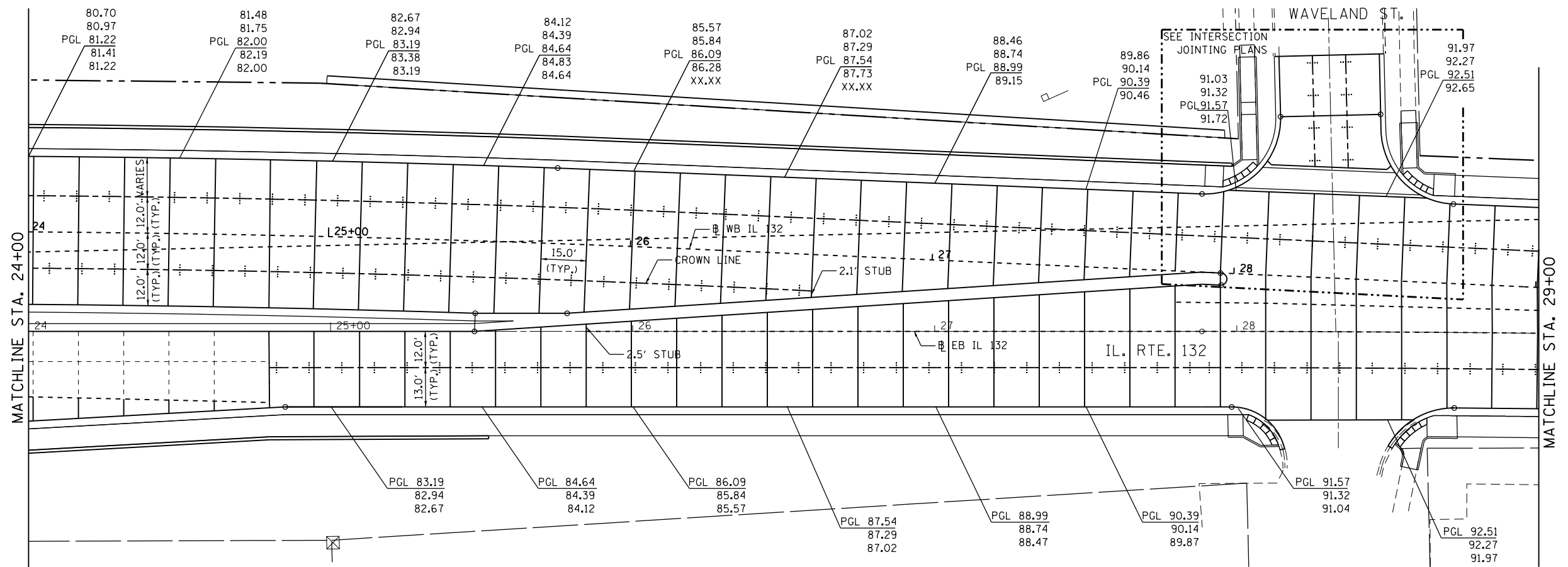
NOTES:

1. SEE INTERSECTION PLAN FOR INTERSECTION GEOMETRICS AND GRADES.
2. TRANSVERSE JOINTS IN THE CURBS AND MEDIANS SHALL BE EXTENSIONS OF THE TRANSVERSE JOINTS IN THE PAVEMENT.
3. PROPOSED TRANSVERSE JOINTS BUILT ADJACENT TO EXISTING PCC JOINTED PAVEMENT SHALL MATCH THE EXISTING JOINTS LOCATIONS WHERE POSSIBLE.
4. ADD 600' TO ELEVATIONS TO OBTAIN TRUE ELEVATION.

GRAPHIC SCALE



FILE NAME = ...\\D1.IL132_SHT_JOINTINT2.dwg HOH HARRY O. HEFTER ASSOCIATES, INC. DESIGN AND CONSULTING ENGINEERS 59 East Jackson Blvd., Suite 600 Chicago, Illinois 60604 312/246-8931	USER NAME = aafitzpatrick PLOT SCALE = 48.00000 ' / in. PLOT DATE = 10/7/2016	DESIGNED - AAF DRAWN - AAF CHECKED - BAP DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ILLINOIS ROUTE 132 JOINTING PLAN	SCALE: 1"=20' SHEET NO. 2 OF 4 SHEETS STA. 19+00 TO STA. 24+00	F.A.P. RTE. 346 SECTION 125X-N&J-5B-B COUNTY LAKE TOTAL SHEETS 361 SHEET NO. 118 CONTRACT NO. 60K80 ILLINOIS FED. AID PROJECT
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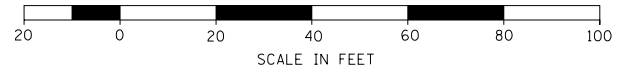
LEGEND

- ===== LONGITUDINAL DOWELED JOINT (IDOT STD. 420001)
- TRANSVERSE CONTRACTION JOINT (IDOT STD. 420001)
- |---|--- LONGITUDINAL SAWED JOINT (IDOT STD. 420001)
- LONGITUDINAL CONSTRUCTION JOINT (IDOT STD. 420001)
- PAVEMENT SEPARATION JOINT (D-1 STANDARD BD52)
- EXISTING PAVEMENT JOINT (EXACT LOCATIONS TO BE DETERMINED IN THE FIELD)

NOTES:

1. TRANSVERSE JOINTS IN THE CURBS AND MEDIANS SHALL BE EXTENSIONS OF THE TRANSVERSE JOINTS IN THE PAVEMENT.
2. PROPOSED TRANSVERSE JOINTS BUILT ADJACENT TO EXISTING PCC JOINTED PAVEMENT SHALL MATCH THE EXISTING JOINTS LOCATIONS WHERE POSSIBLE.
3. ADD 600' TO ELEVATIONS TO OBTAIN TRUE ELEVATION.

GRAPHIC SCALE

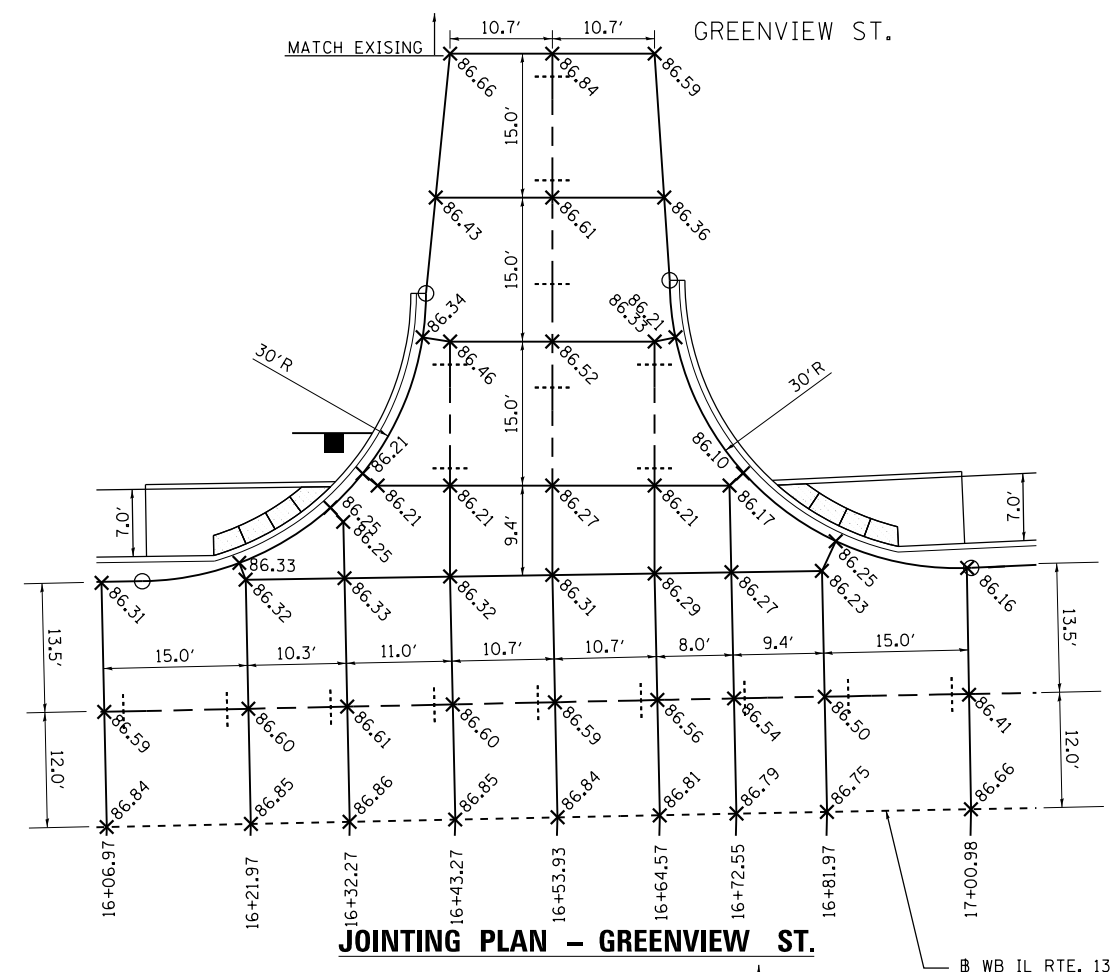


FILE NAME = ...\\D1.IL132_SHT_JOINTINT3.dwg HOH HARRY O. HEFTER ASSOCIATES, INC. DESIGN AND CONSULTING ENGINEERS 55 East Jackson Blvd., Suite 600 Chicago, Illinois 60604 312/346-8931	USER NAME = aafitzpatrick DESIGNED - AAF DRAWN - AAF CHECKED - BAP DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ILLINOIS ROUTE 132 JOINTING PLAN	F.A.P. RTE. 346 SECTION 125X-N&J-5B-B COUNTY LAKE TOTAL SHEETS 361 SHEET NO. 119 CONTRACT NO. 60K80	ILLINOIS FED. AID PROJECT
	PLOT SCALE = 48.0000' / in. PLOT DATE = 10/7/2016	DATE -			SCALE: 1"=20' SHEET NO. 3 OF 4 SHEETS STA. 24+00 TO STA. 31+85	

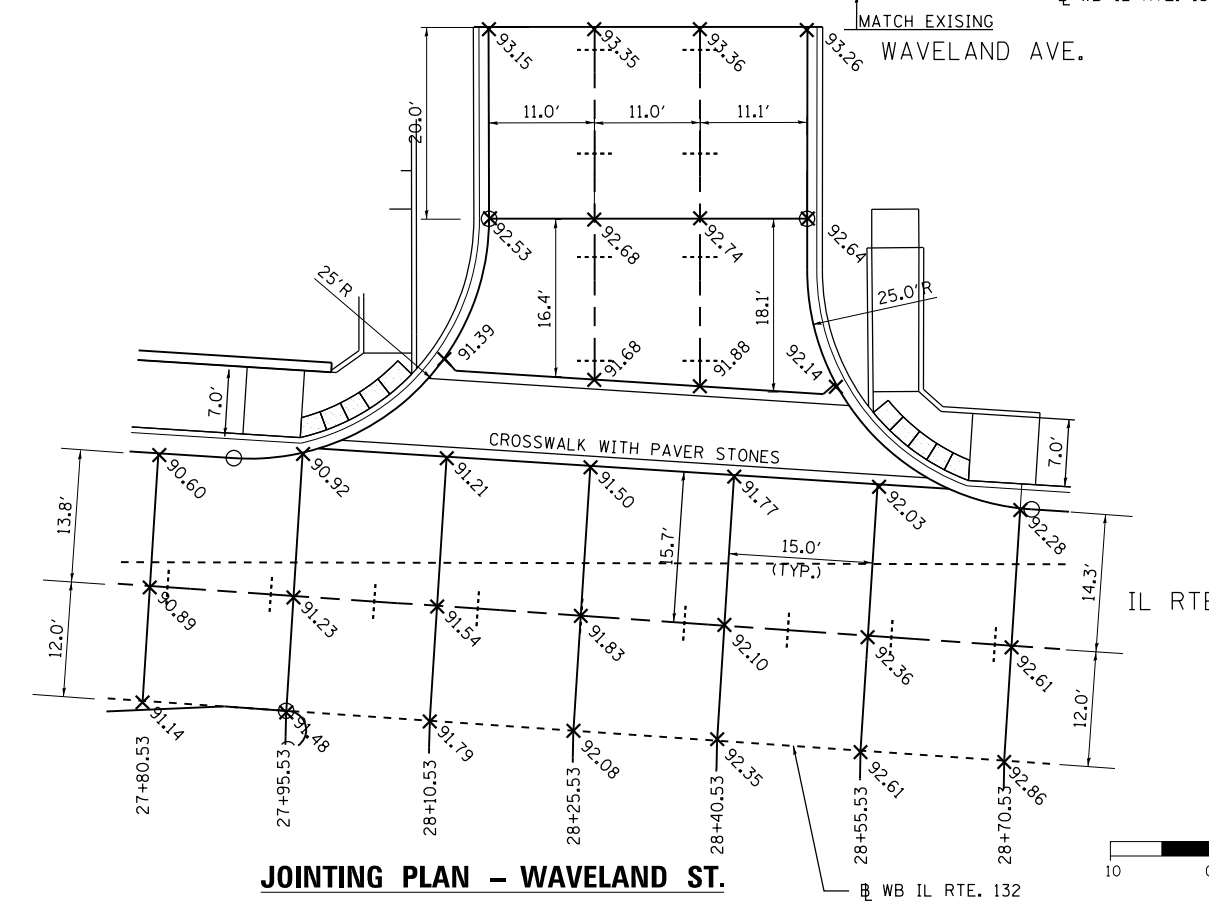


LEGEND

- LONGITUDINAL DOWELED JOINT (IDOT STD. 420001)
- TRANSVERSE CONTRACTION JOINT (IDOT STD. 420001)
- LONGITUDINAL SAWED JOINT (IDOT STD. 420001)
- LONGITUDINAL CONSTRUCTION JOINT (IDOT STD. 420001)
- PAVEMENT SEPARATION JOINT (D-1 STANDARD BD52)
- EXISTING PAVEMENT JOINT (EXACT LOCATIONS TO BE DETERMINED IN THE FIELD)



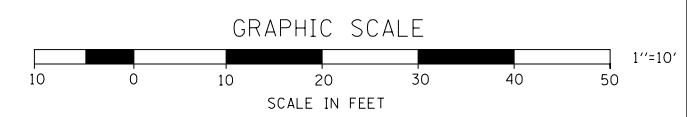
JOINTING PLAN - GREENVIEW ST.



JOINTING PLAN - WAVELAND ST.

NOTES:

1. SEE IDOT D1 STANDARD BD 52 FOR DOWEL BAR/TIE BAR PLACEMENT AT SIDE STREET INTERSECTIONS.
2. ADD 600' TO EACH ELEVATION TO OBTAIN TRUE ELEVATION.
3. TRANSVERSE JOINTS ON IL 132 AT NON-TYPICAL SPACING (15FT) SHALL CONTINUE THE ENTIRE WIDTH OF THE PROPOSED IL 132 ROADWAY.



FILE NAME = ...D1_IL132_SHT_JOINTINT4.dwg	USER NAME = aafitzpatrick	DESIGNED - AAF	REVISED -
HOH HARRY O. HEFTER ASSOCIATES, INC. DESIGN AND CONSULTING ENGINEERS 3366	PLOT SCALE = 20.0000' / in.	DRAWN - AAF	REVISED -
55 East Jackson Blvd. Suite 600 Chicago, Illinois 60604 312/346-8931	PLOT DATE = 10/7/2016	CHECKED - BAP	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SIDE STREETS
JOINTING PLAN**

SCALE: 1"=10' SHEET NO. 4 OF 4 SHEETS STA. TO STA.

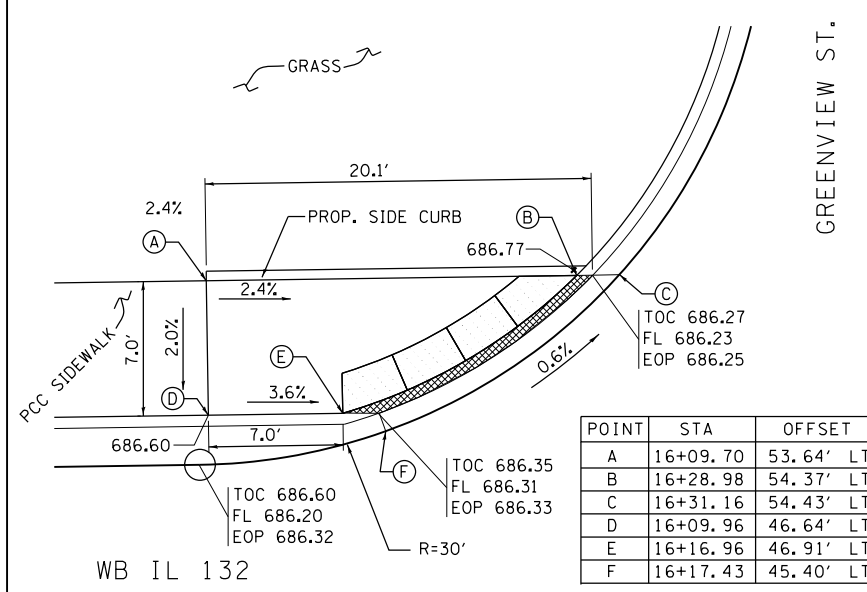
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N&J-5B-B	LAKE	361	120
CONTRACT NO. 60K80				
ILLINOIS FED. AID PROJECT				



LEGEND

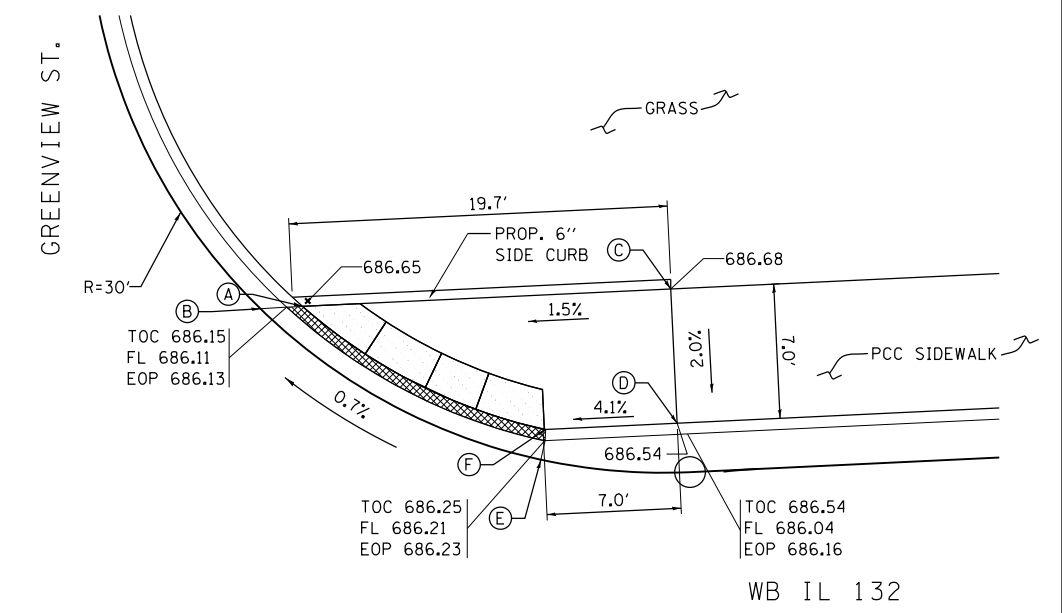
- DETECTABLE WARNING TILES
- TOP OF CURB ELEV.
- FLOWLINE ELEV.
- EDGE OF PAVEMENT ELEV.
- DEPRESSED CURB

NOTE:
STATIONS AND OFFSETS ARE BASED ON
EB IL 132 BASELINE.



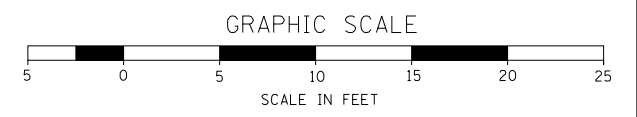
POINT	STA	OFFSET
A	16+09.70	53.64' LT
B	16+28.98	54.37' LT
C	16+31.16	54.43' LT
D	16+09.96	46.64' LT
E	16+16.96	46.91' LT
F	16+17.43	45.40' LT

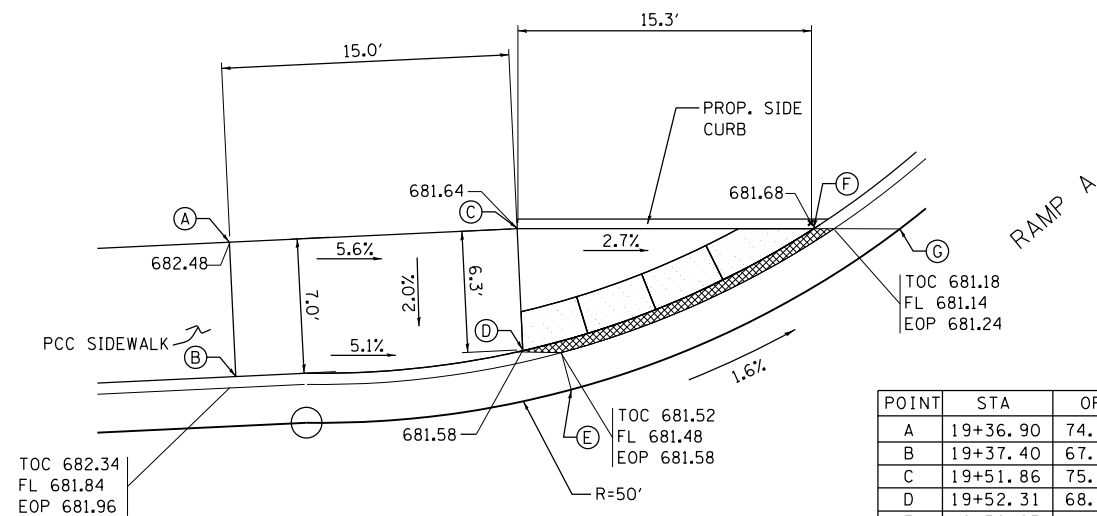
ADA RAMP DETAIL 4
NW CORNER OF GREENVIEW ST. AND IL 132



POINT	STA	OFFSET
A	16+75.51	55.64' LT
B	16+73.30	55.49' LT
C	16+94.68	57.00' LT
D	16+95.17	50.02' LT
E	16+87.96	47.98' LT
F	16+88.27	49.53' LT

ADA RAMP DETAIL 5
NE CORNER OF GREENVIEW ST. AND IL 132

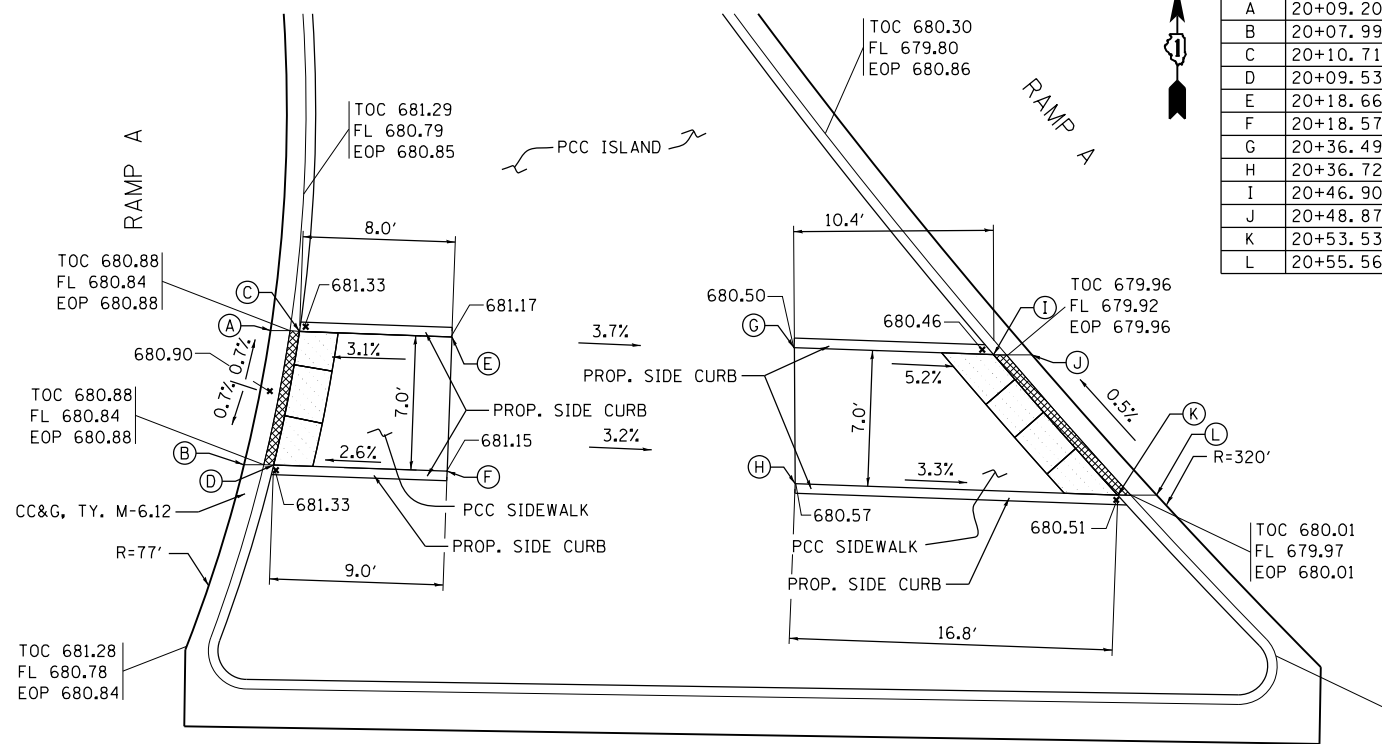




POINT	STA	OFFSET
A	19+36.90	74.19' LT
B	19+37.40	67.21' LT
C	19+51.86	75.25' LT
D	19+52.31	68.96' LT
E	19+52.95	66.41' LT
F	19+67.31	75.62' LT
G	19+71.82	75.73' LT

WB IL 132

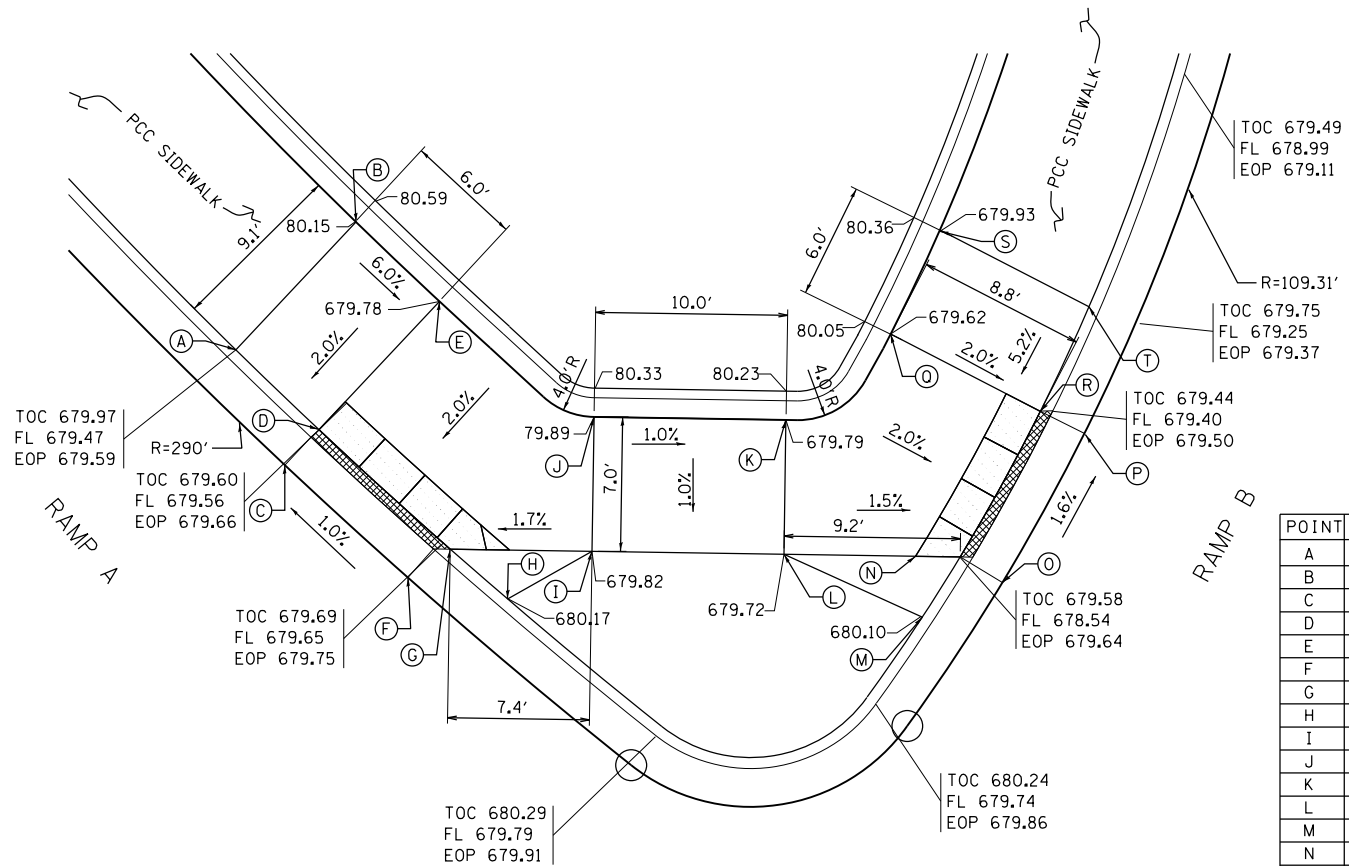
ADA RAMP DETAIL 6
NW CORNER OF RAMP A AND IL 132



POINT	STA	OFFSET
A	20+09.20	76.10' LT
B	20+07.99	69.11' LT
C	20+10.71	76.13' LT
D	20+09.53	69.15' LT
E	20+18.66	76.04' LT
F	20+18.57	69.04' LT
G	20+36.49	75.91' LT
H	20+36.72	68.82' LT
I	20+46.90	75.78' LT
J	20+48.87	75.83' LT
K	20+53.53	68.62' LT
L	20+55.56	68.67' LT

WB IL 132

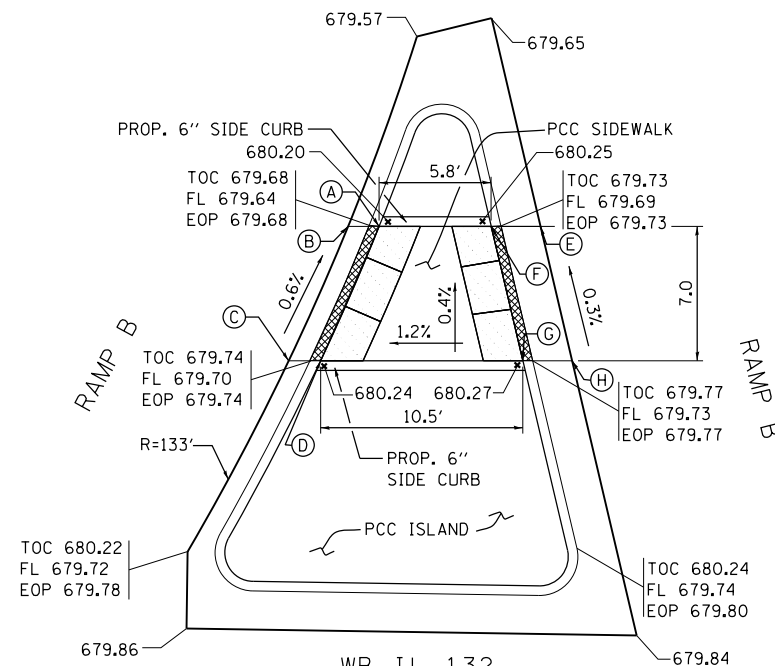
ADA RAMP DETAIL 7
RAMP A ISLAND



POINT	STA	OFFSET
A	20+89.81	80.62' LT
B	20+95.91	87.43' LT
C	20+92.52	74.66' LT
D	20+94.23	76.57' LT
E	21+00.35	83.40' LT
F	20+99.56	68.54' LT
G	21+01.21	70.51' LT
H	21+04.26	67.99' LT
I	21+18.60	70.66' LT
J	21+08.55	77.57' LT
K	21+18.55	77.66' LT
L	21+18.60	70.66' LT
M	21+25.89	67.55' LT
N	21+27.79	70.73' LT
O	21+30.02	69.45' LT
P	21+34.11	77.32' LT
Q	21+23.89	82.26' LT
R	21+31.78	78.41' LT
S	21+26.33	87.74' LT
T	21+34.18	83.92' LT

WB IL 132

ADA RAMP DETAIL 8
ISLAND BETWEEN RAMP A AND RAMP B

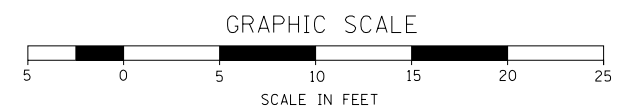


POINT	STA	OFFSET
A	21+61.13	77.81' LT
B	21+59.51	77.77' LT
C	21+56.59	70.70' LT
D	21+58.25	70.74' LT
E	21+69.53	78.01' LT
F	21+66.97	77.95' LT
G	21+68.78	70.99' LT
H	21+71.35	71.05' LT

WB IL 132

ADA RAMP DETAIL 9
RAMP B ISLAND

NOTE:
STATIONS AND OFFSETS ARE BASED ON
EB IL 132 BASELINE.



FILE NAME = ...D1.IL132_SHT.ADA2.dgn
HOH HARRY O. HEFTER ASSOCIATES, INC.
 DESIGN AND CONSULTING ENGINEERS
 3366 55 East Jackson Blvd., Suite 600
 Chicago, Illinois 60604
 312/346-8313

USER NAME = aafitzpatrick
 PLOT SCALE = 10.0000" / in.
 PLOT DATE = 10/7/2016

DESIGNED - JS
 DRAWN - JAM
 CHECKED - AAF
 DATE -

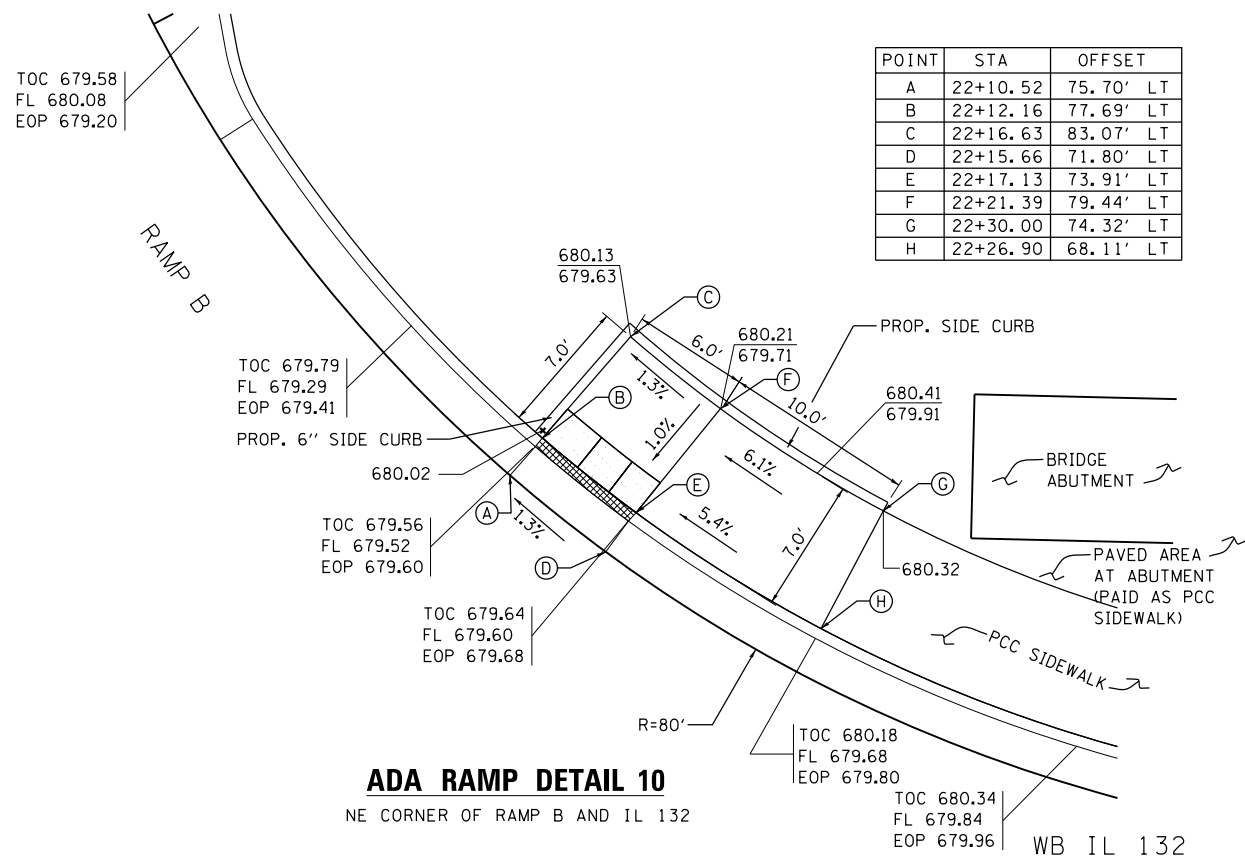
REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 132
 ADA RAMP DETAILS

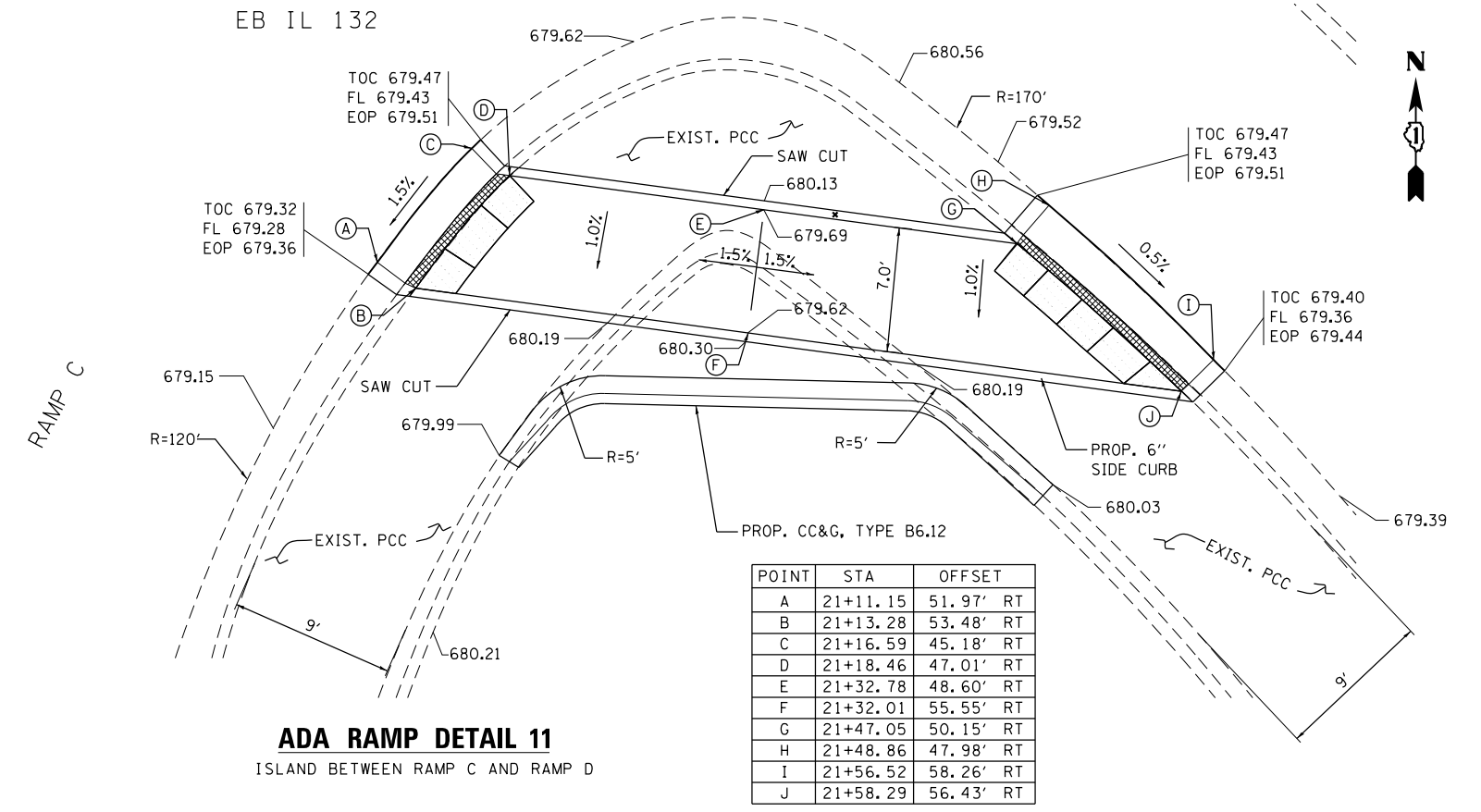
SCALE: 1"=5' SHEET NO. 2 OF 4 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N&J-5B-B	LAKE	361	122
CONTRACT NO. 60K80				
ILLINOIS FED. AID PROJECT				



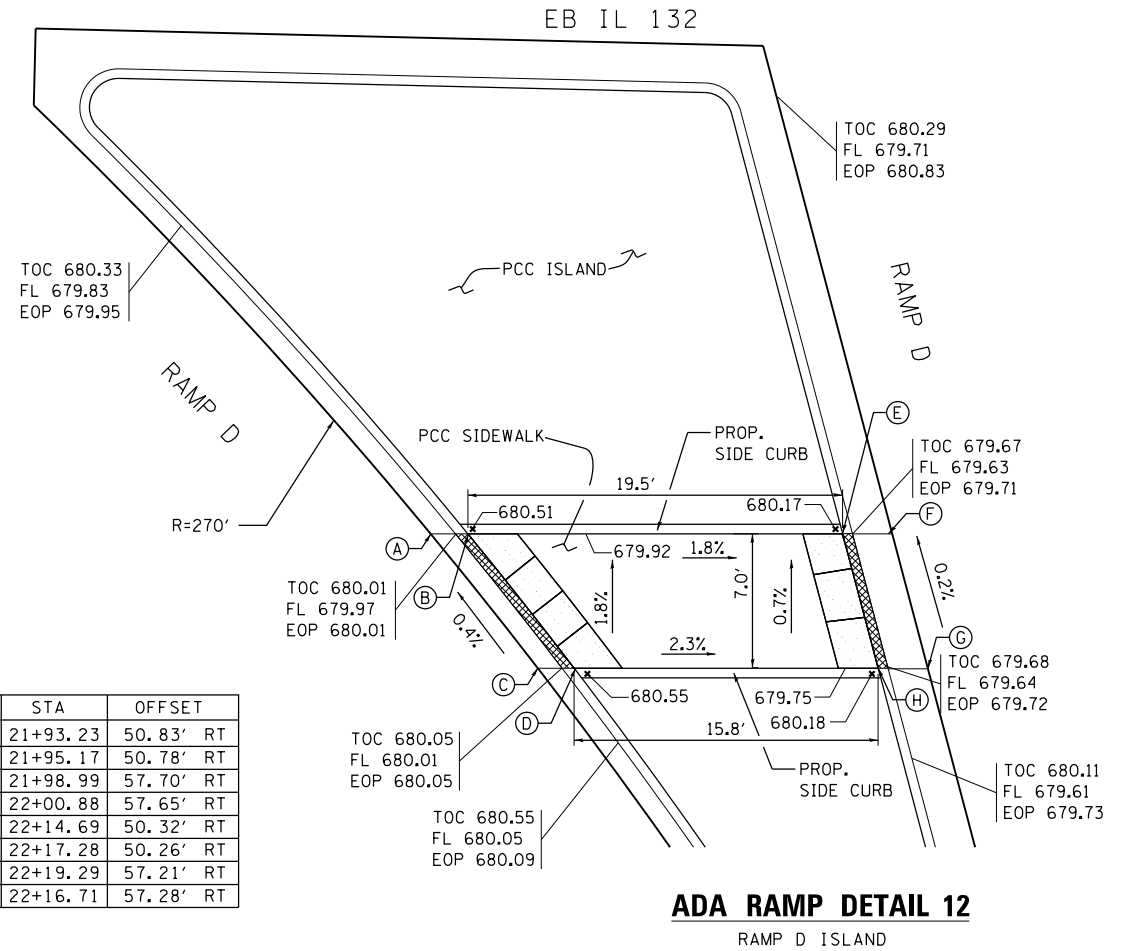
ADA RAMP DETAIL 10

NE CORNER OF RAMP B AND IL 132



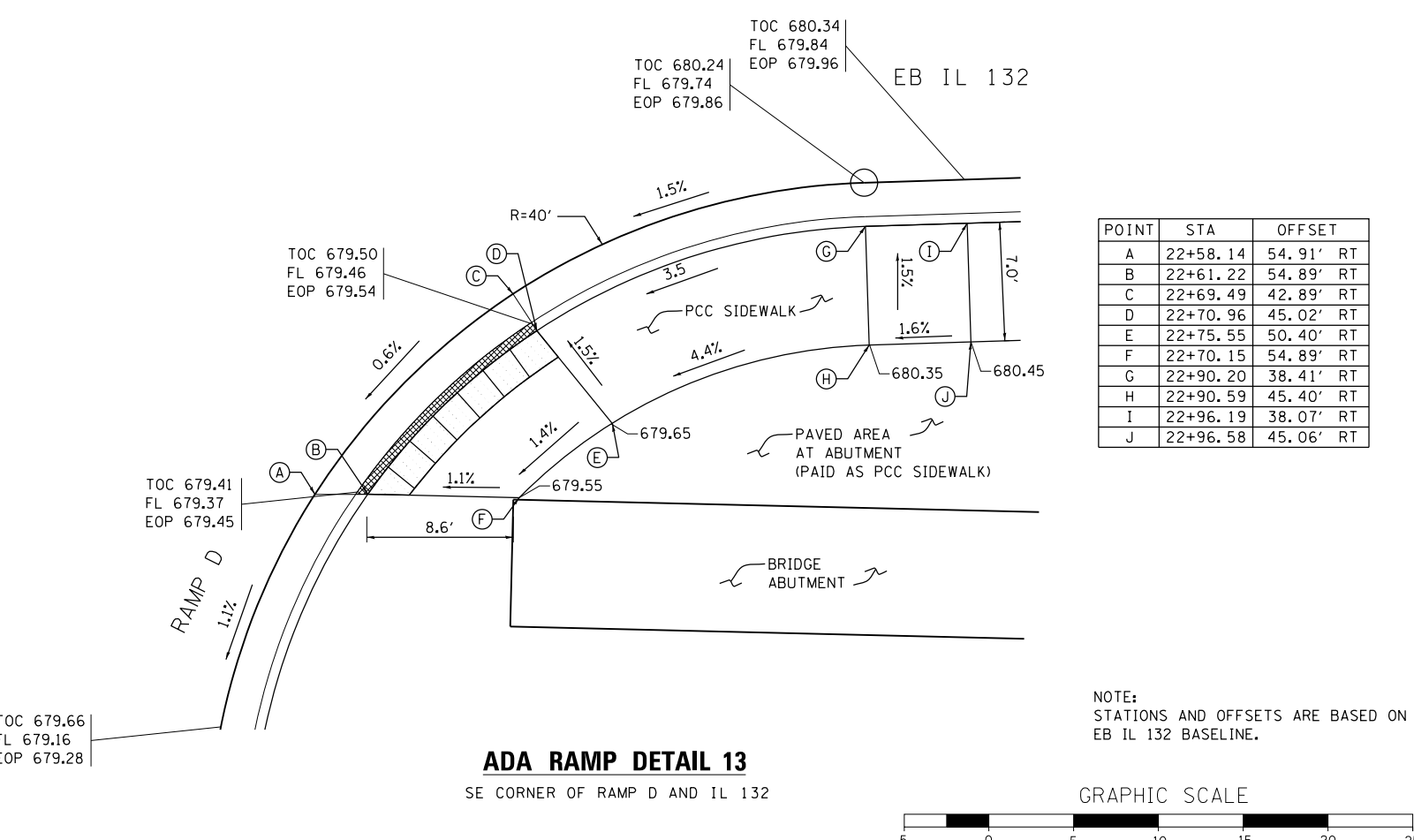
ADA RAMP DETAIL 11

ISLAND BETWEEN RAMP C AND RAMP D



ADA RAMP DETAIL 12

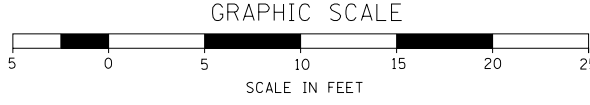
RAMP D ISLAND



ADA RAMP DETAIL 13

SE CORNER OF RAMP D AND IL 132

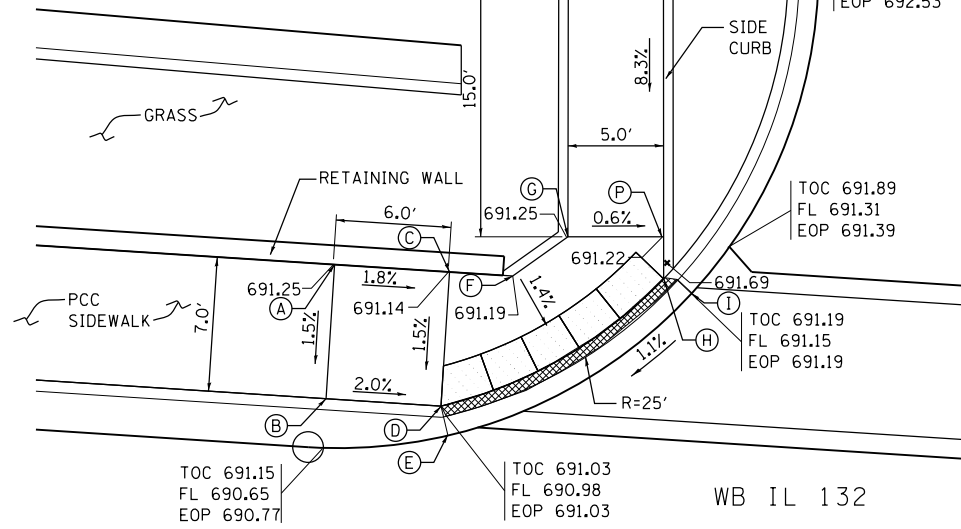
NOTE: STATIONS AND OFFSETS ARE BASED ON EB IL 132 BASELINE.



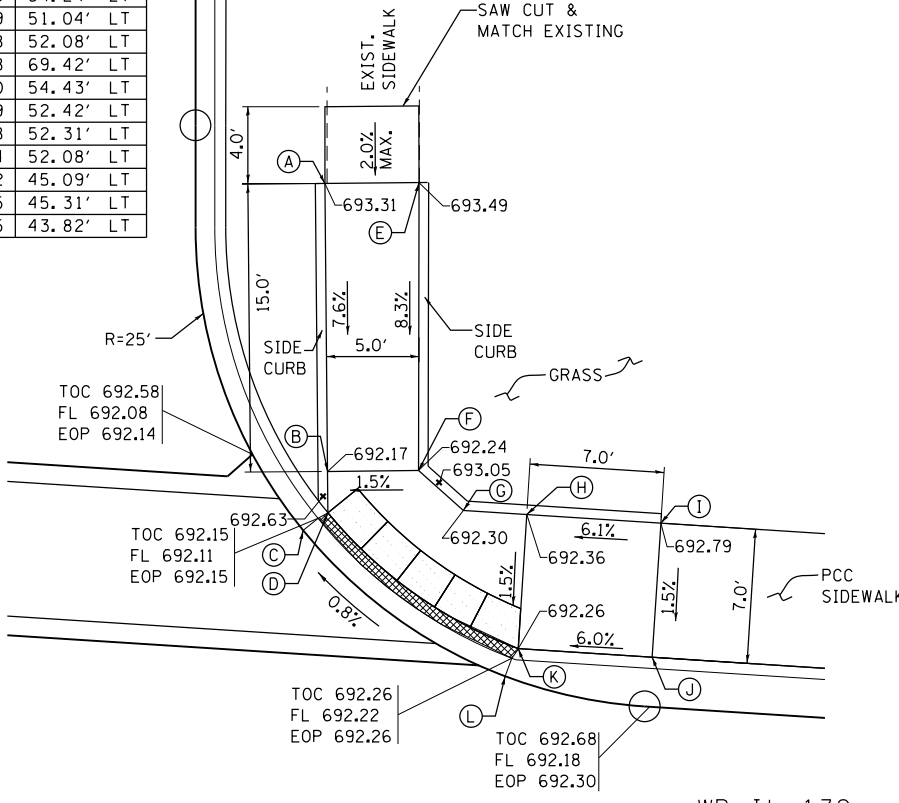
POINT	STA	OFFSET
A	27+89.67	55.06' LT
B	27+89.39	48.07' LT
C	27+95.63	54.82' LT
D	27+95.36	47.83' LT
E	27+95.75	46.30' LT
F	27+98.91	54.69' LT
G	28+01.72	56.80' LT
H	28+06.73	54.74' LT
I	28+07.89	53.67' LT
J	28+01.37	71.80' LT
K	28+06.28	71.92' LT
L	28+01.27	75.80' LT
M	28+06.18	75.92' LT
N	28+00.92	90.79' LT
O	28+05.79	90.92' LT
P	28+06.67	56.93' LT

ADA RAMP DETAIL 14

NW CORNER OF WAVELAND ST. AND IL 132



POINT	STA	OFFSET
A	28+54.00	69.23' LT
B	28+54.59	54.24' LT
C	28+53.49	51.04' LT
D	28+54.68	52.08' LT
E	28+58.88	69.42' LT
F	28+59.30	54.43' LT
G	28+61.69	52.42' LT
H	28+64.98	52.31' LT
I	28+71.94	52.08' LT
J	28+71.72	45.09' LT
K	28+64.75	45.31' LT
L	28+64.25	43.82' LT

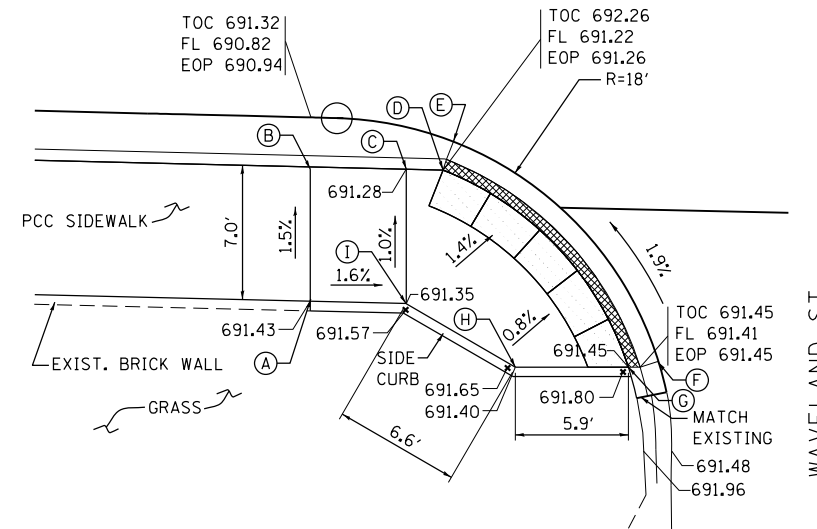


ADA RAMP DETAIL 15

NE CORNER OF WAVELAND ST. AND IL 132

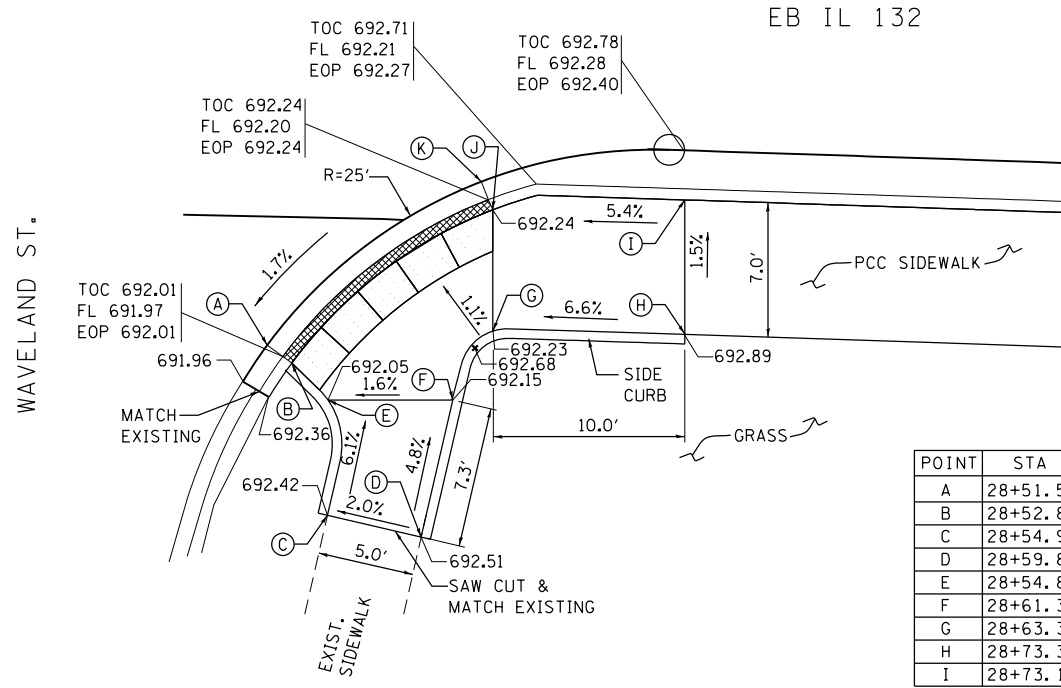
POINT	STA	OFFSET
A	27+97.21	34.58' RT
B	27+97.04	27.58' RT
C	28+02.06	27.57' RT
D	28+03.97	27.57' RT
E	28+04.51	26.08' RT
F	28+15.58	37.54' RT
G	28+13.93	37.58' RT
H	28+08.02	37.73' RT
I	28+02.23	34.58' RT

EB IL 132



ADA RAMP DETAIL 16

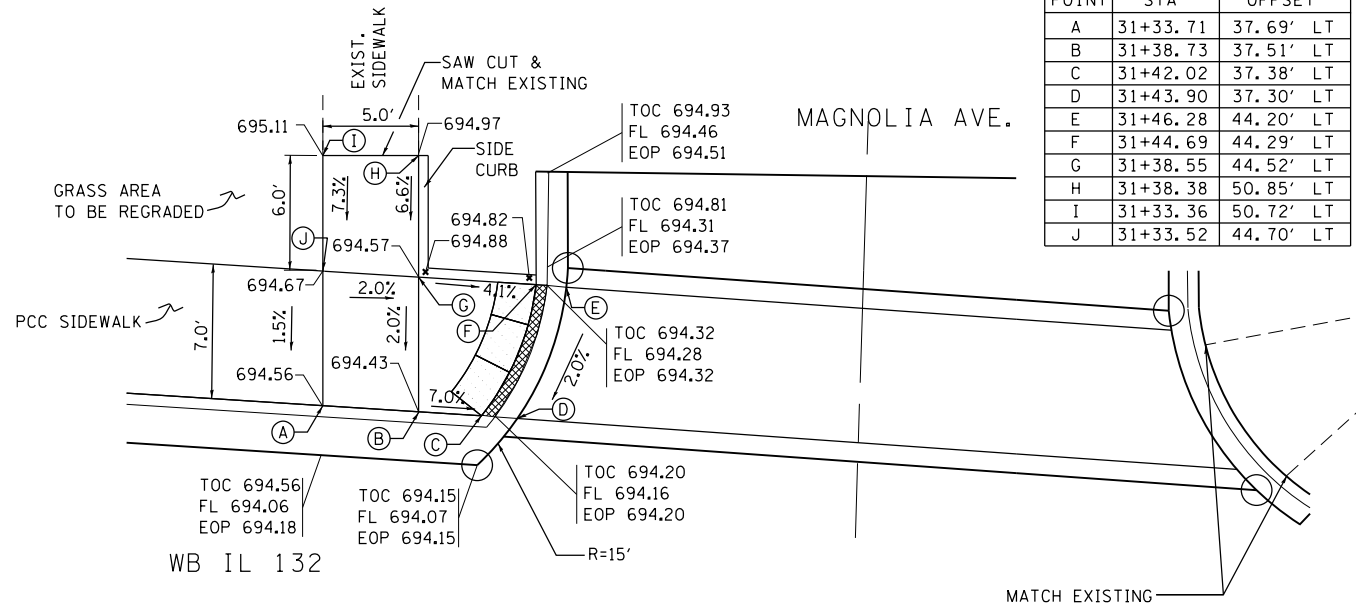
SW CORNER OF WAVELAND ST. AND IL 132



ADA RAMP DETAIL 17

SE CORNER OF WAVELAND ST. AND IL 132

POINT	STA	OFFSET
A	28+51.55	35.82' RT
B	28+52.86	36.72' RT
C	28+54.97	44.58' RT
D	28+59.89	45.57' RT
E	28+54.81	38.58' RT
F	28+61.34	38.38' RT
G	28+63.32	34.73' RT
H	28+73.35	34.58' RT
I	28+73.12	27.58' RT

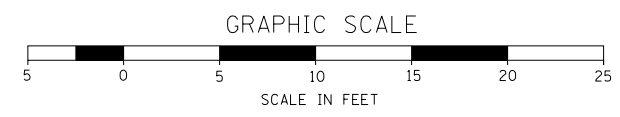


ADA RAMP DETAIL 18

NW CORNER OF MAGNOLIA AVE. AND IL 132

POINT	STA	OFFSET
A	31+33.71	37.69' LT
B	31+38.73	37.51' LT
C	31+42.02	37.38' LT
D	31+43.90	37.30' LT
E	31+46.28	44.20' LT
F	31+44.69	44.29' LT
G	31+38.55	44.52' LT
H	31+38.38	50.85' LT
I	31+33.36	50.72' LT
J	31+33.52	44.70' LT

NOTE:
STATIONS AND OFFSETS ARE BASED ON
EB IL 132 BASELINE.



FILE NAME - ...D1_IL132_SHT_ADA4.dgn
HOH HARRY O. HEFTER ASSOCIATES, INC.
 DESIGN AND CONSULTING ENGINEERS
 3366 55 East Jackson Blvd., Suite 600
 Chicago, Illinois 60604
 312/466-8931

USER NAME = aafitzpatrick
 DESIGNED - JS
 DRAWN - JAM
 CHECKED - BAP
 DATE -
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 10/7/2016

DESIGNED - JS
 DRAWN - JAM
 CHECKED - BAP
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

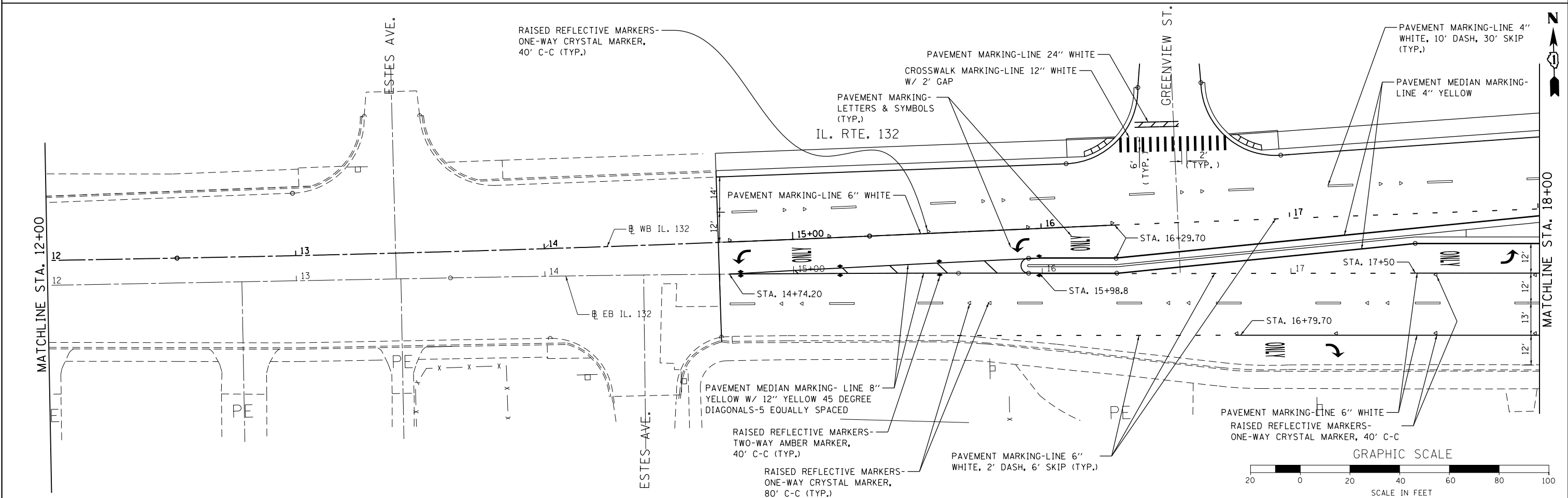
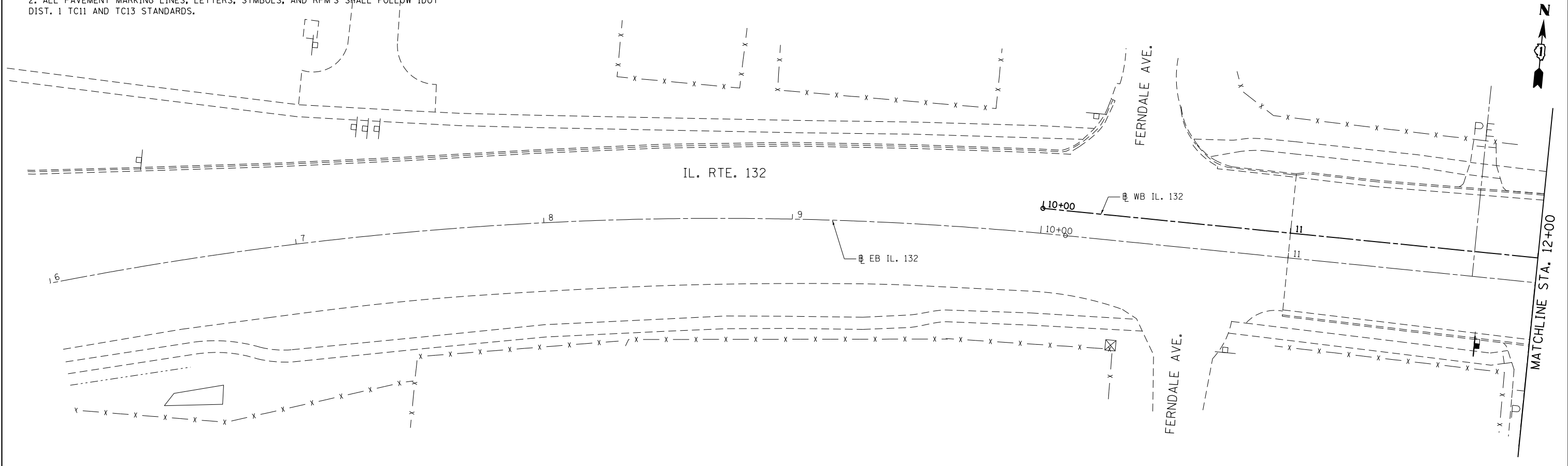
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 132
 ADA RAMP DETAILS**

SCALE: 1"=5' SHEET NO. 4 OF 4 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N&J-5B-B	LAKE	361	124
CONTRACT NO. 60K80				
ILLINOIS FED. AID PROJECT				

NOTE:
 1. ALL PAVEMENT MARKING LINES, LETTERS, AND SYMBOLS WILL BE POLYUREA, TYPE 1.
 2. ALL PAVEMENT MARKING LINES, LETTERS, SYMBOLS, AND RPM'S SHALL FOLLOW IDOT DIST. 1 TC11 AND TC13 STANDARDS.



FILE NAME = ...\\D1.IL132_SHT.PMK.dgn
 USER NAME = aofitzpatrick
 DESIGNED - JAM
 DRAWN - JAM
 CHECKED - BAP
 DATE -
 PLOT SCALE = 48.0000' / in.
 PLOT DATE = 10/7/2016

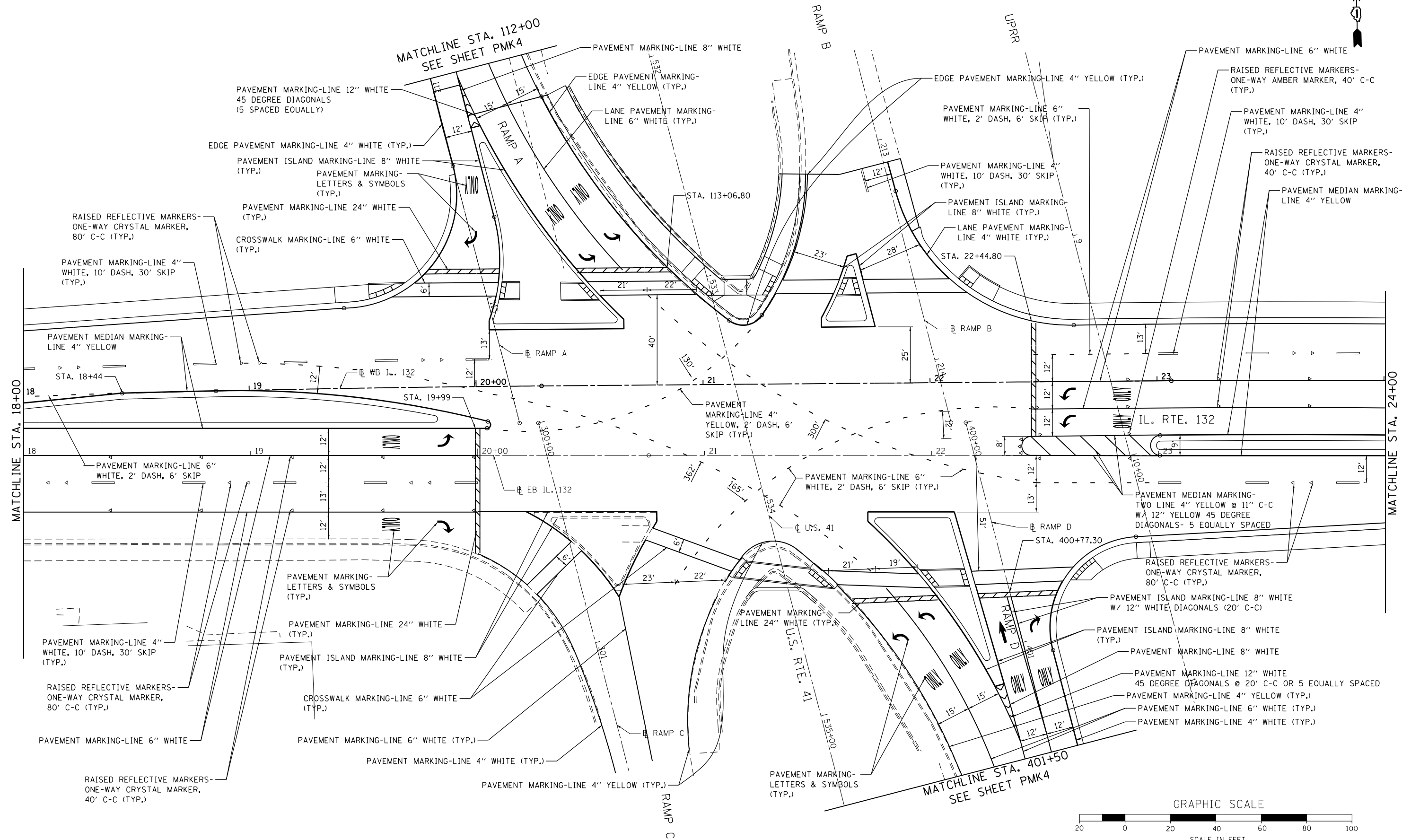
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DRAWN - JAM	REVISED -
CHECKED - BAP	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 132
 PAVEMENT MARKING PLAN**
 SCALE: 1"=20'
 SHEET NO. 1 OF 4 SHEETS
 STA. 14+70 TO STA. 18+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N&J-5B-B	LAKE	361	125
CONTRACT NO. 60K80				
ILLINOIS FED. AID PROJECT				

NOTE:
 1. ALL PAVEMENT MARKING LINES, LETTERS, AND SYMBOLS WILL BE POLYUREA, TYPE 1.
 2. ALL PAVEMENT MARKING LINES, LETTERS, SYMBOLS, AND RPM'S SHALL FOLLOW IDOT DIST. 1 TC11 AND TC13 STANDARDS.



FILE NAME = ...DI_IL132_SHT_PMK.dgn
HOH HARRY O. HEFTER ASSOCIATES, INC.
 DESIGN AND CONSULTING ENGINEERS
 3366 55 East Jackson Blvd., Suite 600
 Chicago, Illinois 60604
 312/346-8313

USER NAME = aofitzpatrick
 PLOT SCALE = 48.0000' / in.
 PLOT DATE = 10/7/2016

DESIGNED - JAM
 DRAWN - JAM
 CHECKED - BAP
 DATE -

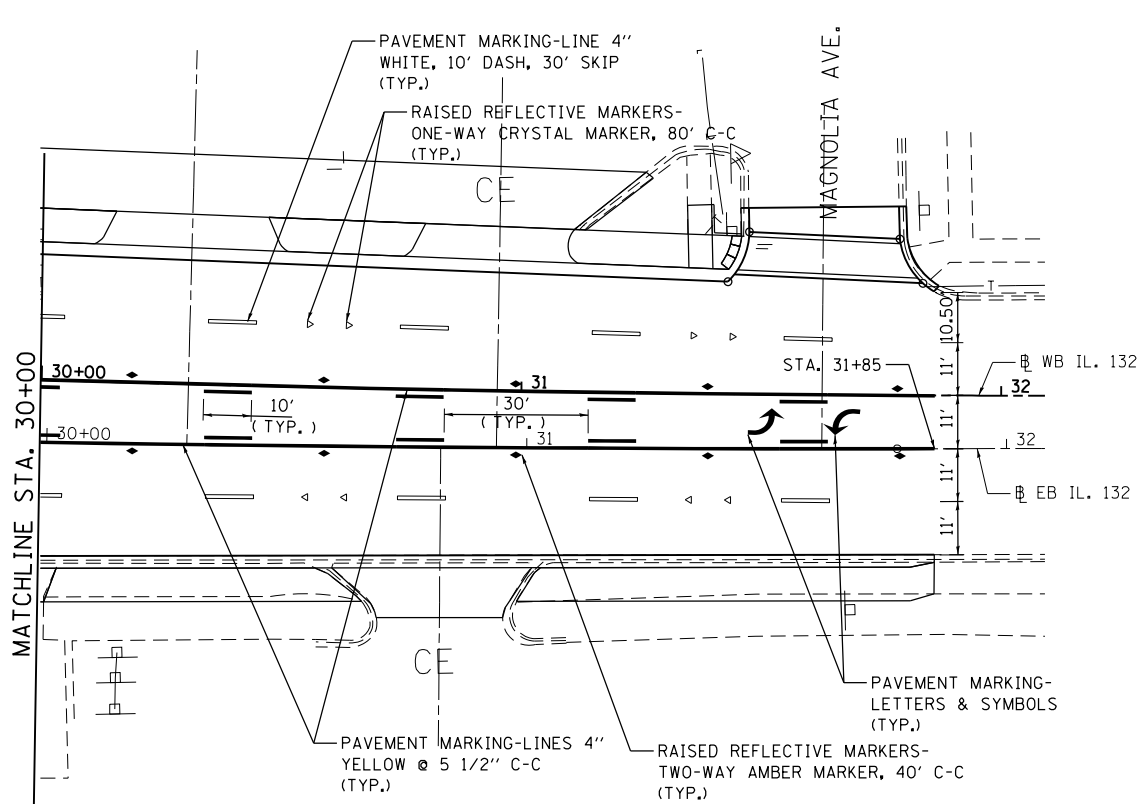
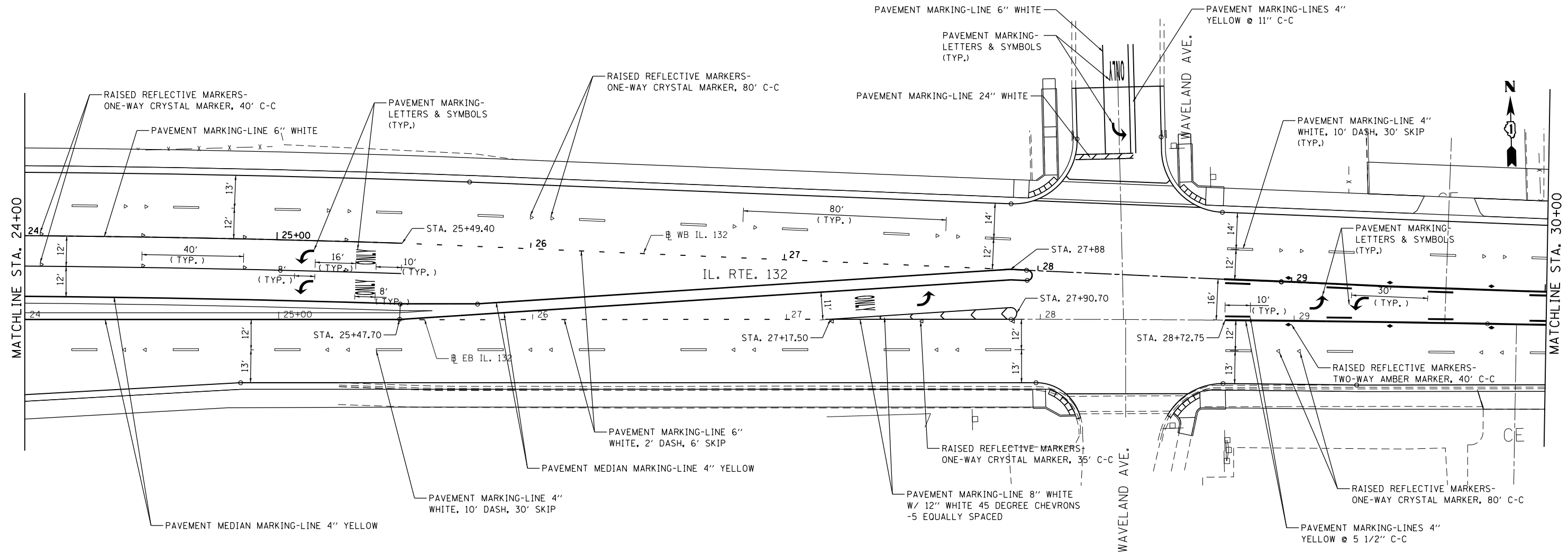
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

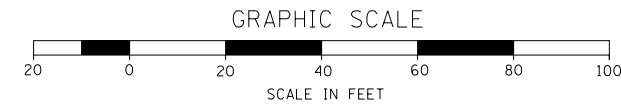
**ILLINOIS ROUTE 132
 PAVEMENT MARKING PLAN**

SCALE: 1"=20' SHEET NO. 2 OF 4 SHEETS STA. 18+00 TO STA. 24+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N&J-5B-B	LAKE	361	126
CONTRACT NO. 60K80				
ILLINOIS FED. AID PROJECT				



NOTE:
 1. ALL PAVEMENT MARKING LINES, LETTERS, AND SYMBOLS WILL BE POLYUREA, TYPE 1.
 2. ALL PAVEMENT MARKING LINES, LETTERS, SYMBOLS, AND RPM'S SHALL FOLLOW IDOT DIST. 1 TC11 AND TC13 STANDARDS.



FILE NAME = ...D1.IL132_SHT.PMK.dgn
HOH HARRY O. HEFTER ASSOCIATES, INC.
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 3366 55 East Jackson Blvd., Suite 600
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 312/246-8131

USER NAME = aafitzpatrick
 DESIGNED - JAM
 DRAWN - JAM
 CHECKED - BAP
 DATE -
 PLOT SCALE = 48.0000' / in.
 PLOT DATE = 10/7/2016

DESIGNED - JAM
 DRAWN - JAM
 CHECKED - BAP
 DATE -
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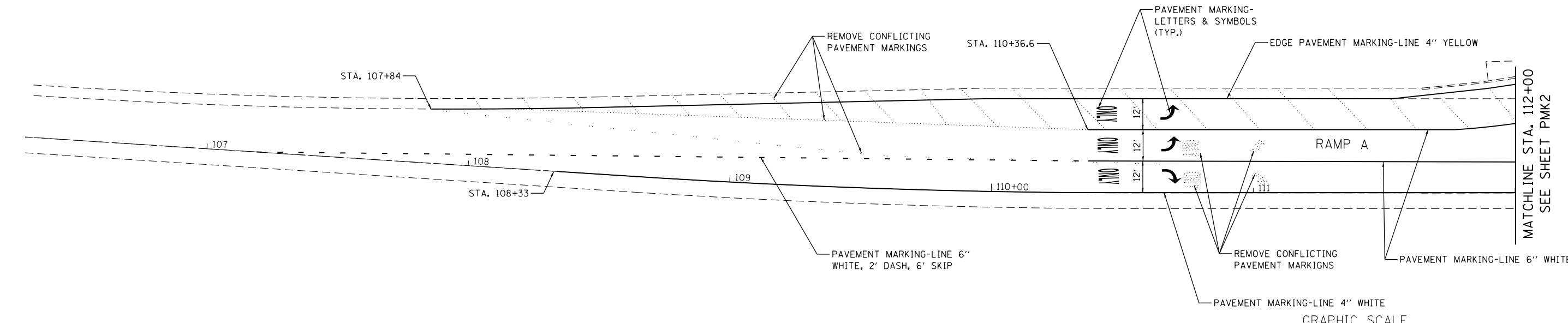
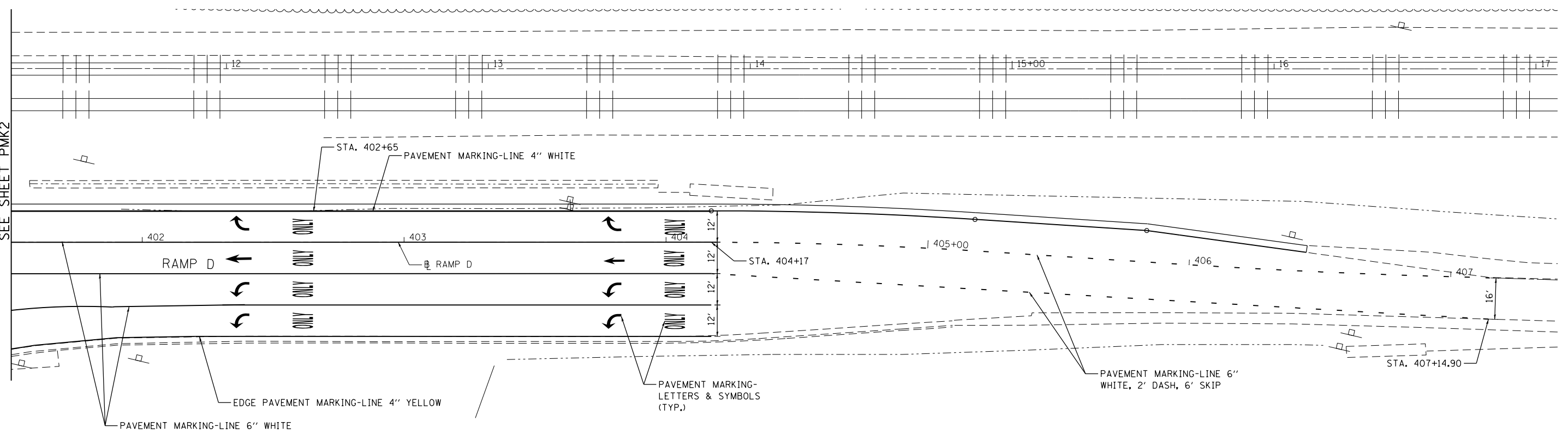
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 132
 PAVEMENT MARKING PLAN**
 SCALE: 1"=20' SHEET NO. 3 OF 4 SHEETS STA. 24+00 TO STA. 32+00

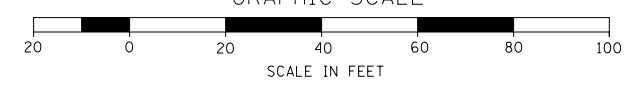
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N&J-5B-B	LAKE	361	127
CONTRACT NO. 60K80				
ILLINOIS FED. AID PROJECT				



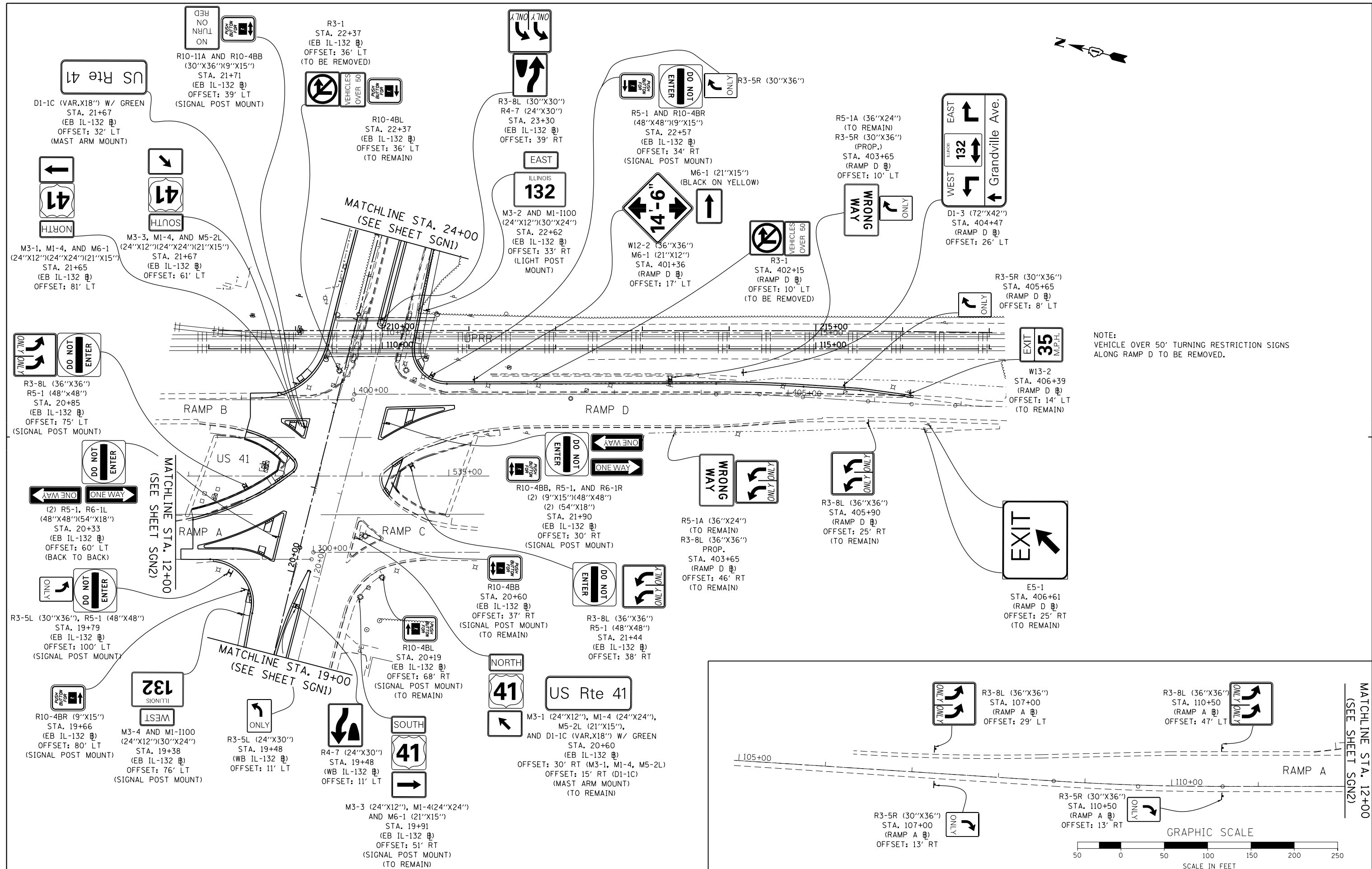
MATCHLINE STA. 401+50
SEE SHEET PMK2



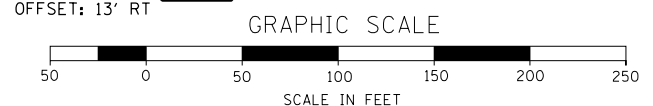
NOTE:
 1. ALL PAVEMENT MARKING LINES, LETTERS, AND SYMBOLS WILL BE POLYUREA, TYPE 1.
 2. ALL PAVEMENT MARKING LINES, LETTERS, SYMBOLS, AND RPM'S SHALL FOLLOW IDOT DIST. 1 TC11 AND TC13 STANDARDS.



	FILE NAME = ...D1.IL132_SHT_PMK.dgn	USER NAME = aofitzpatrick	DESIGNED - JAM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ILLINOIS ROUTE 132 PAVEMENT MARKING PLAN	F.A.P. RTE. 346	SECTION 125X-N&J-5B-B	COUNTY LAKE	TOTAL SHEETS 361	SHEET NO. 128
		PLOT SCALE = 48.0000' / in.	CHECKED - BAP	REVISED -			CONTRACT NO. 60K80	ILLINOIS FED. AID PROJECT			
PLOT DATE = 10/7/2016			DATE -	REVISED -	SCALE: 1"=20'		SHEET NO. 4 OF 4 SHEETS		STA. 401+50 TO STA. 407+14.90		



NOTE:
VEHICLE OVER 50' TURNING RESTRICTION SIGNS
ALONG RAMP D TO BE REMOVED.



FILE NAME - ...D1_IL132_SHT_SIGN.dgn
HOH HARRY O. HOFFER ASSOCIATES, INC.
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 3366 55 East Jackson Blvd., Suite 600
 Chicago, Illinois 60604
 312/246-8313

USER NAME = aafitzpatrick
 PLOT SCALE = 100.0000' / in.
 PLOT DATE = 10/7/2016

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 DRAWN - AAF
 CHECKED - JAM
 DATE - BAP

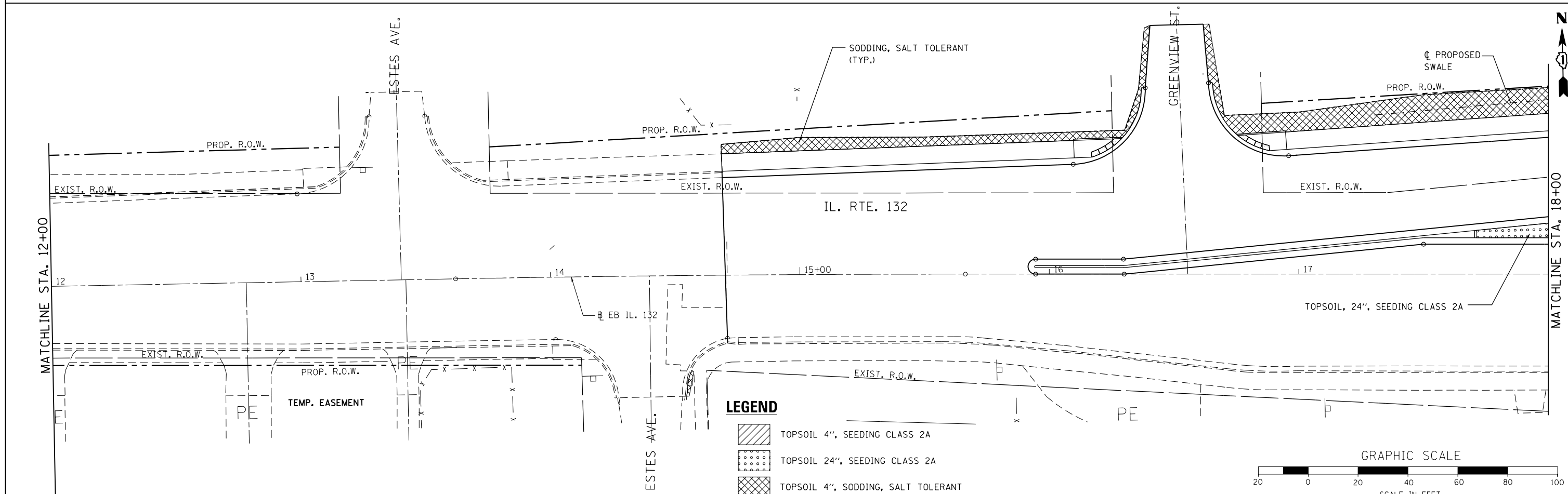
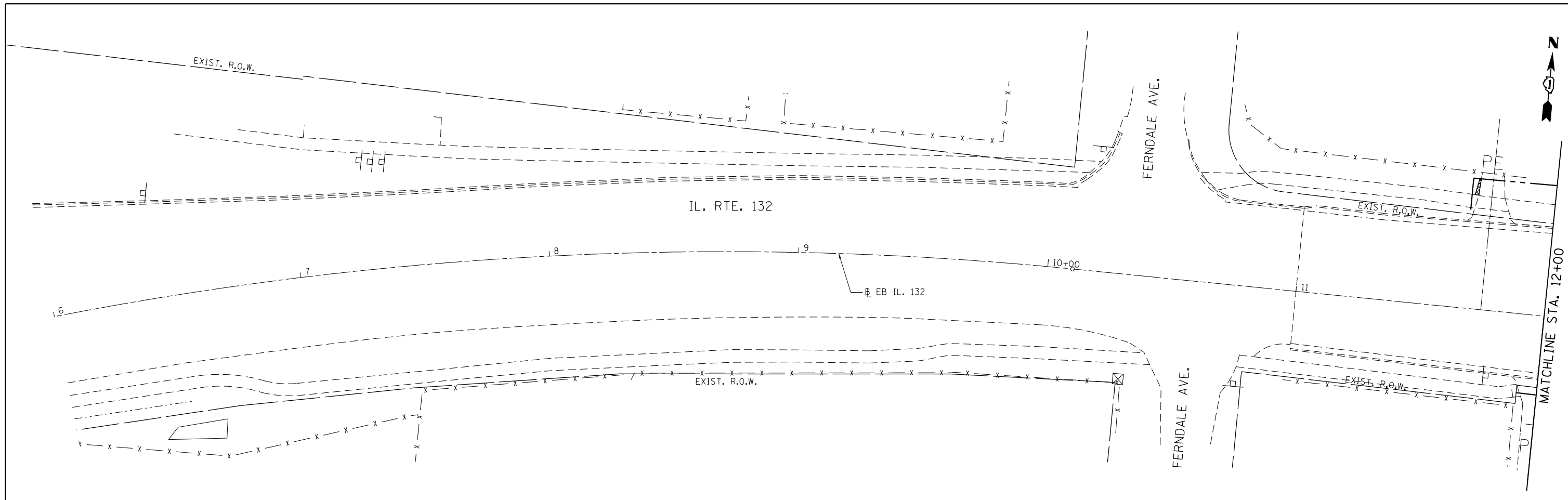
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 132
SIGNING PLAN
 SCALE: 1"=50' SHEET NO. 20F 2SHEETS STA. 19+00 TO STA. 24+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N&J-5B-B	LAKE	361	130
CONTRACT NO. 60K80				
ILLINOIS FED. AID PROJECT				

MATCHLINE STA. 12+00
(SEE SHEET SGN2)



FILE NAME = ...DI_IL132_SHT_LNDSCP.dgn
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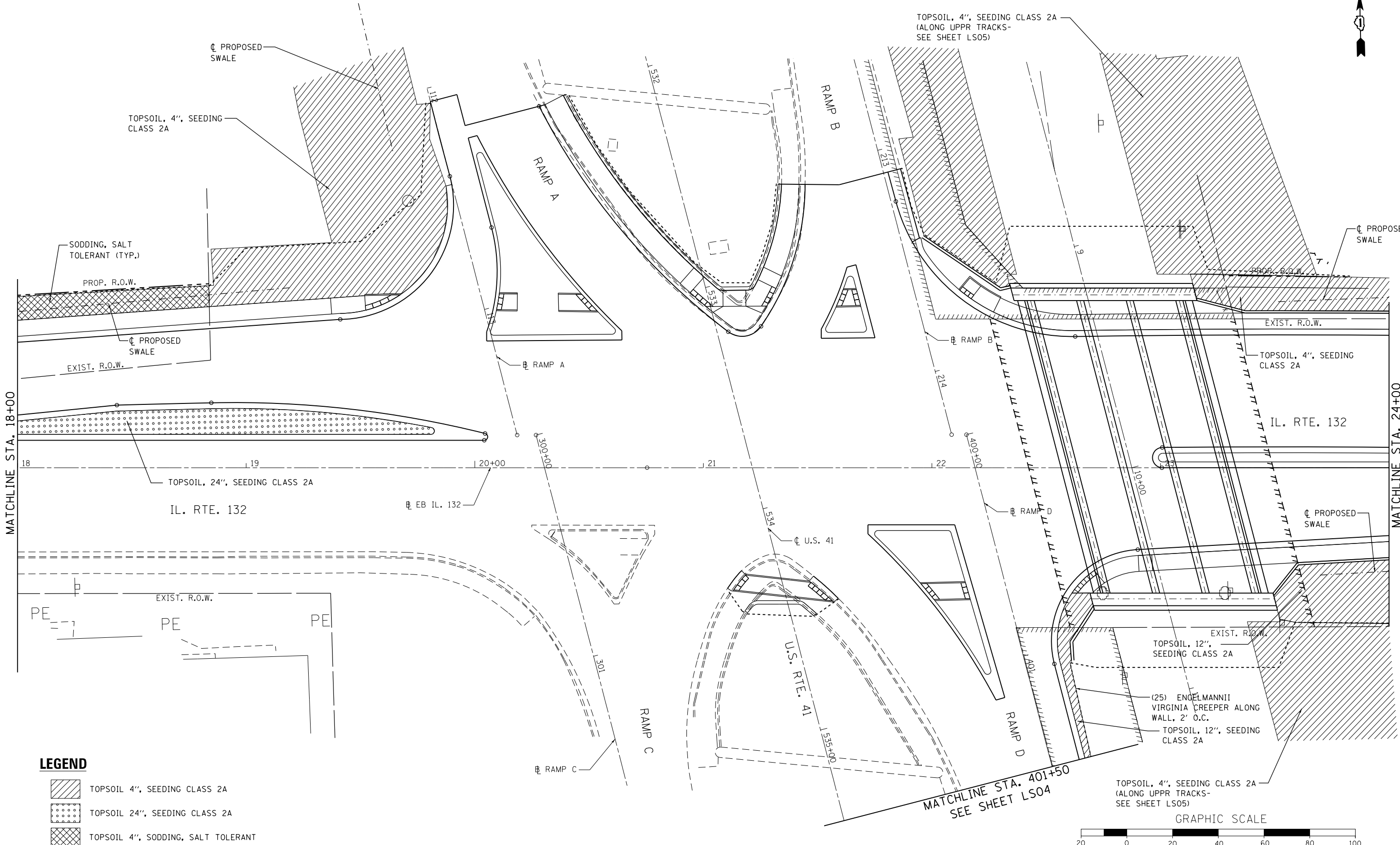
USER NAME = aofitzpatrick	DESIGNED - JAM	REVISED -
PLOT SCALE = 48.0000' / in.	DRAWN - JAM	REVISED -
PLOT DATE = 10/7/2016	CHECKED - BAP	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 132
 LANDSCAPING PLAN**

SCALE: 1"=20' SHEET NO. 1 OF 5 SHEETS STA. 6+00 TO STA. 18+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N&J-5B-B	LAKE	361	131
CONTRACT NO. 60K80				
ILLINOIS FED. AID PROJECT				



LEGEND

- TOPSOIL 4", SEEDING CLASS 2A
- TOPSOIL 24", SEEDING CLASS 2A
- TOPSOIL 4", SODDING, SALT TOLERANT

FILE NAME = ...\\D1.IL132_SHT.LNDSCP.dgn
HOH HARRY O. HEFTER ASSOCIATES, INC.
 DESIGN AND CONSULTING ENGINEERS
 3366 55 East Jackson Blvd., Suite 600
 Chicago, Illinois 60604
 312/346-8131

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 PLOT DATE = 10/7/2016

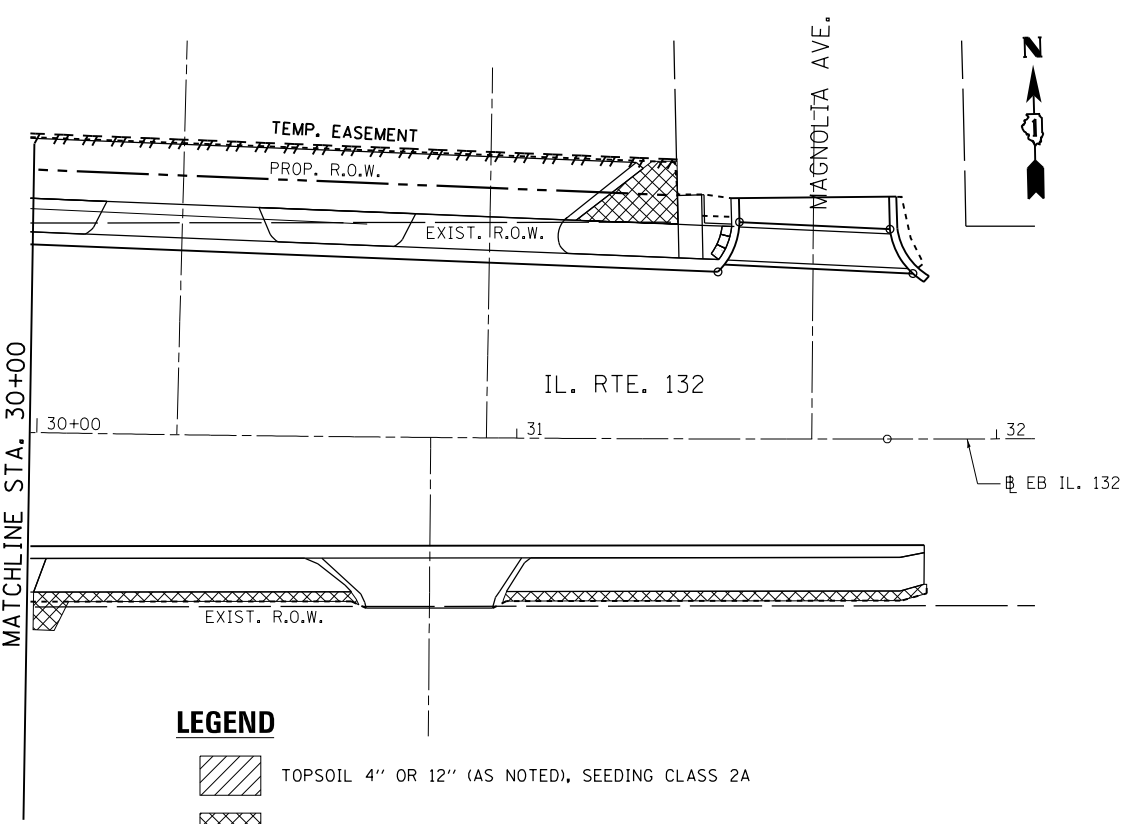
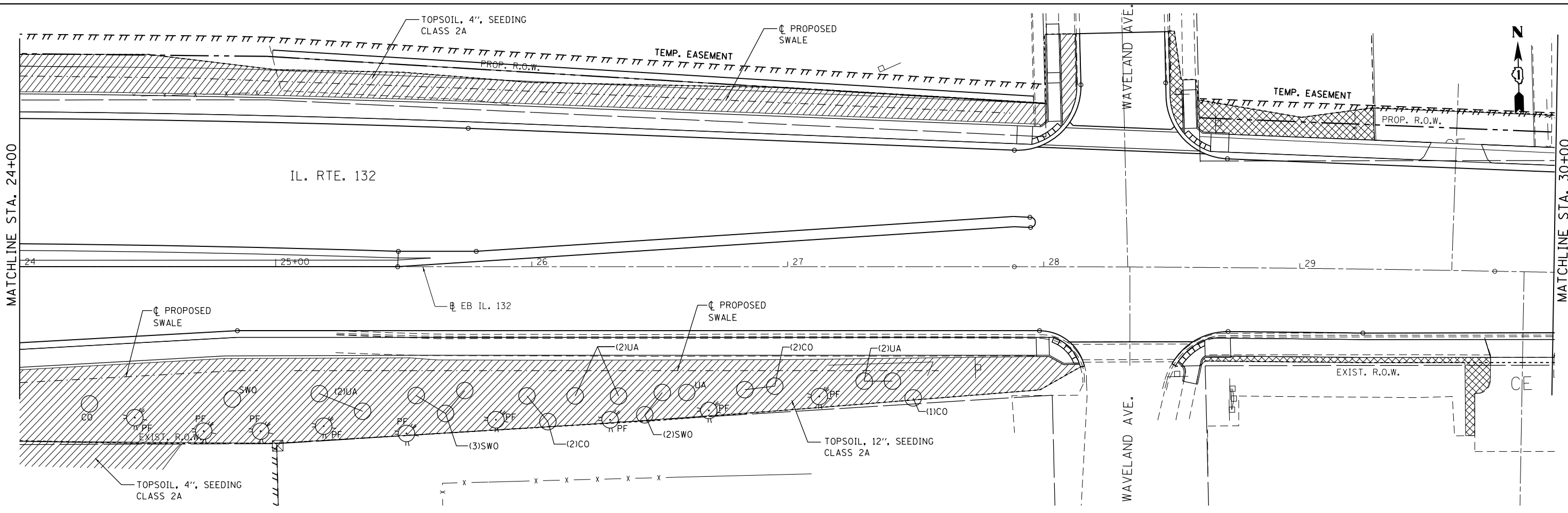
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 132
 LANDSCAPING PLAN**

SCALE: 1"=20' SHEET NO. 2 OF 5 SHEETS STA. 18+00 TO STA. 24+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N&J-5B-B	LAKE	361	132
CONTRACT NO. 60K80				
ILLINOIS FED. AID PROJECT				



PLANT LEGEND:

- CO CELTIS OCCIDENTALIS (COMMON HACKBERRY)
- PF PINUS FLEXILIS (LIMBER PINE)
- SWO QUERCUS BICOLOR (SUMP WHITE OAK)
- UA ULMUS AMERICANA (PRINCETON AMERICAN ELM)

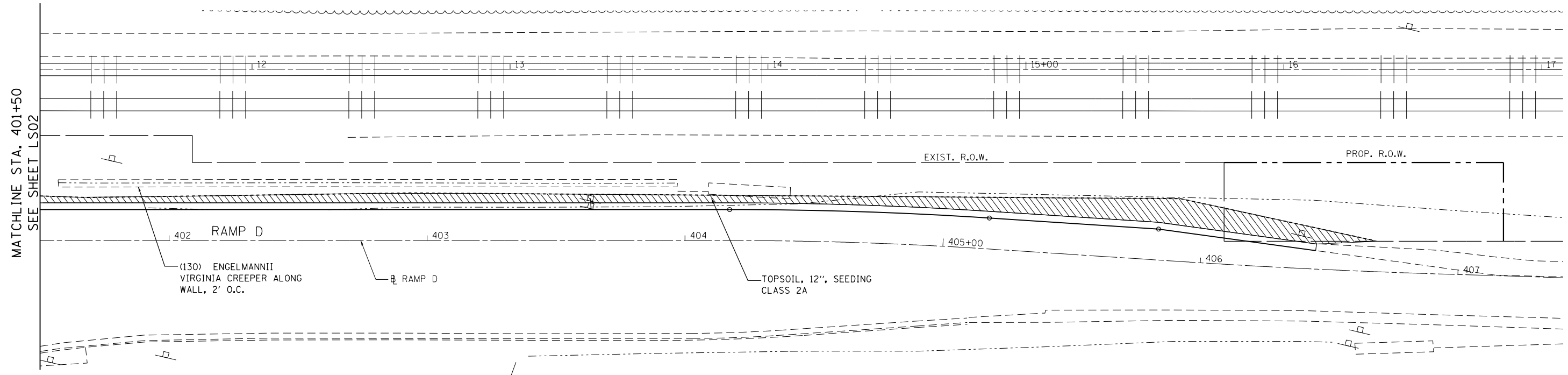
NOTE: TREE SHALL BE PLANTED 20' O.C. MINIMUM ON THE BACKSLOPE (SEE DETAIL ON SHEET LS04)

LEGEND

- TOPSOIL 4" OR 12" (AS NOTED), SEEDING CLASS 2A
- TOPSOIL 4", SODDING, SALT TOLERANT

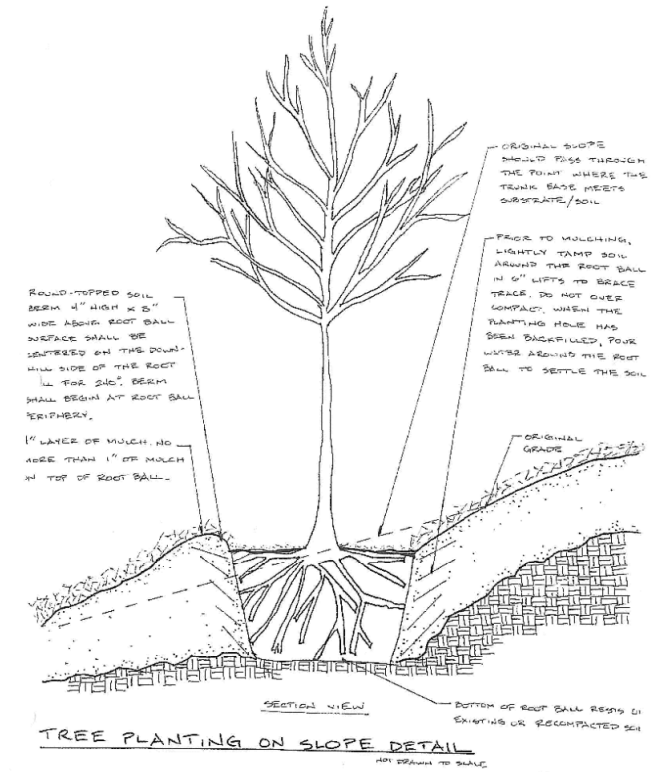


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	3366	346	125X-N&J-SB-B	LAKE			361	133				
						SCALE: 1"=20'	SHEET NO. 3 OF 5 SHEETS	STA. 24+00 TO STA. 32+00		CONTRACT NO. 60K80		
											ILLINOIS FED. AID PROJECT	

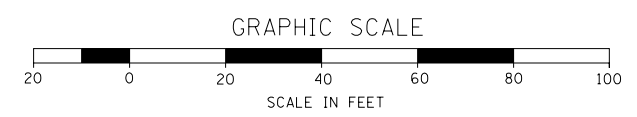


LEGEND

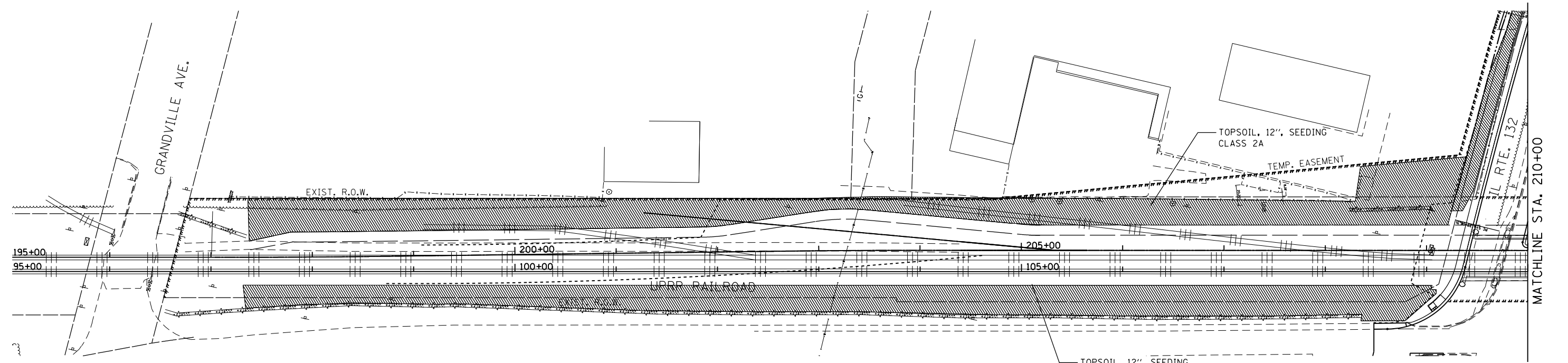
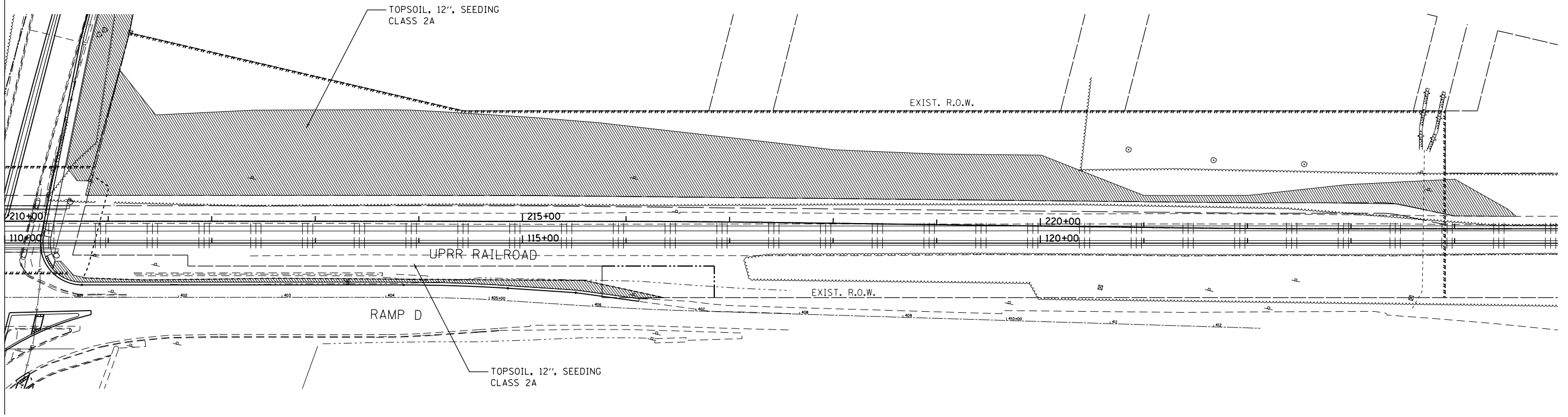
TOPSOIL 12", SEEDING CLASS 2A



TREE PLANTING ON SLOPE DETAIL

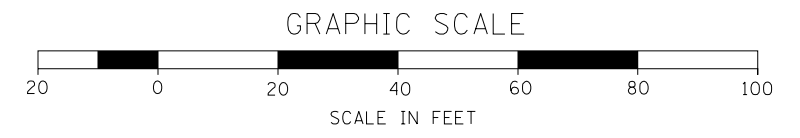


	FILE NAME = ...\\D1.IL132_SHT_LNDSCP.dgn USER NAME = aafitzpatrick DESIGNED - JAM DRAWN - JAM CHECKED - BAP DATE - PLOT SCALE = 48.0000' / in. PLOT DATE = 10/7/2016	REVISIONS REVISION NO. DATE BY DESCRIPTION 1 - - - 2 - - - 3 - - - 4 - - -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RAMP D LANDSCAPING PLAN	F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. 346 125X-N&J-5B-B LAKE 361 134 CONTRACT NO. 60K80
	SCALE: 1"=20' SHEET NO. 4 OF 5 SHEETS STA. 401+50 TO STA. 407+14.90		ILLINOIS FED. AID PROJECT		



LEGEND

TOPSOIL 12", SEEDING CLASS 2A



FILE NAME = ...\\D1.IL132_SHT.LNDSCP.dgn
HOH HARRY O. HEFTER ASSOCIATES, INC.
 DESIGN AND CONSULTING ENGINEERS
 3366 55 East Jackson Blvd., Suite 600
 Chicago, Illinois 60604
 312/346-8131

USER NAME = aofitzpatrick
 PLOT SCALE = 100.0000' / in.
 PLOT DATE = 10/7/2016

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DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**UPRR
 LANDSCAPING PLAN**

SCALE: 1"=50' SHEET NO. 5 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N&J-SB-B	LAKE	361	135
CONTRACT NO. 60K80				

ILLINOIS FED. AID PROJECT

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			
UNINTERRUPTABLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F			
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				QUEUE DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				PREFORMED QUEUE 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)				"RB" INDICATES REFLECTIVE BACKPLATE				PREFORMED SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL							
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED							
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID							
ILLUMINATED SIGN "NO LEFT TURN"				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER							
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO INTERCONNECT							
DETECTOR LOOP, TYPE I				RADIO REPEATER							
PREFORMED DETECTOR LOOP				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED							
MICROWAVE VEHICLE SENSOR				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)							
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											

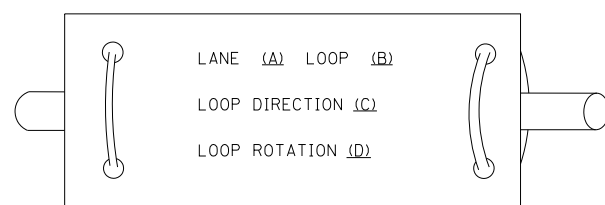
RAILROAD SYMBOLS

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

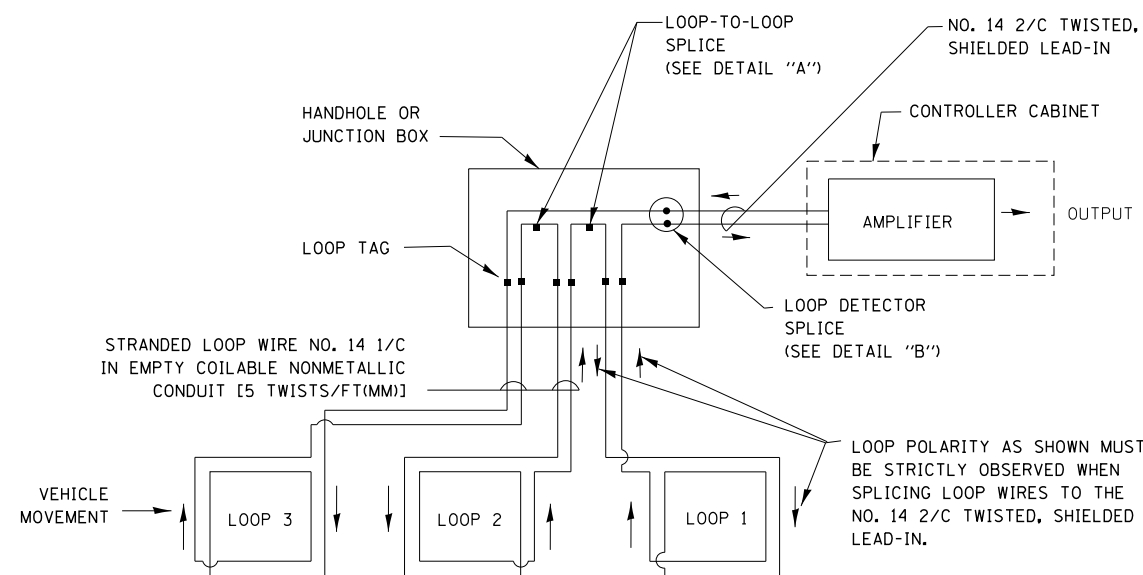
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

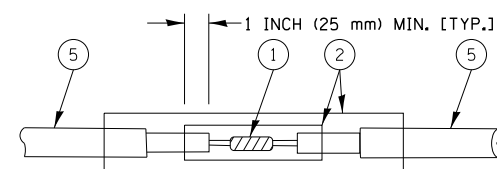


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

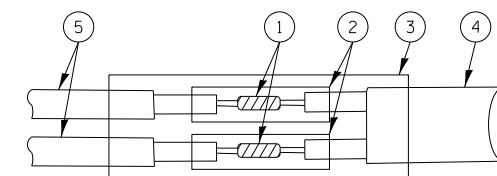


DETECTOR LOOP WIRING SCHEMATIC

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

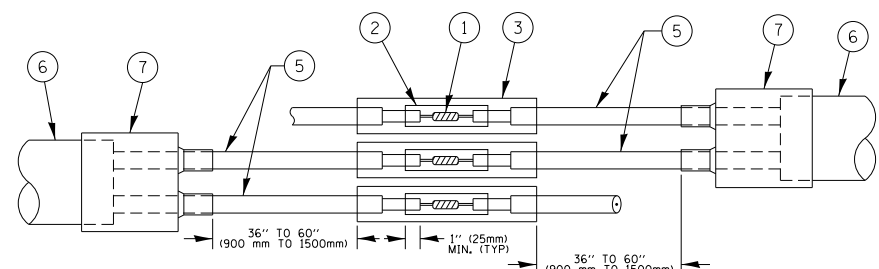


DETAIL "A"
LOOP-TO-LOOP SPLICE

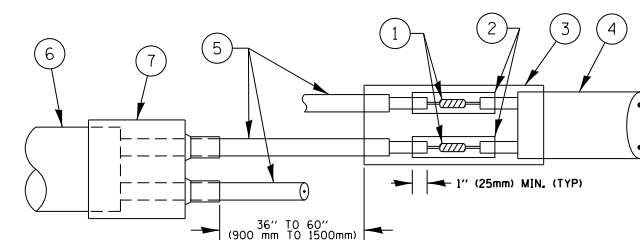


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

LOOP DETECTOR SPLICE

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

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
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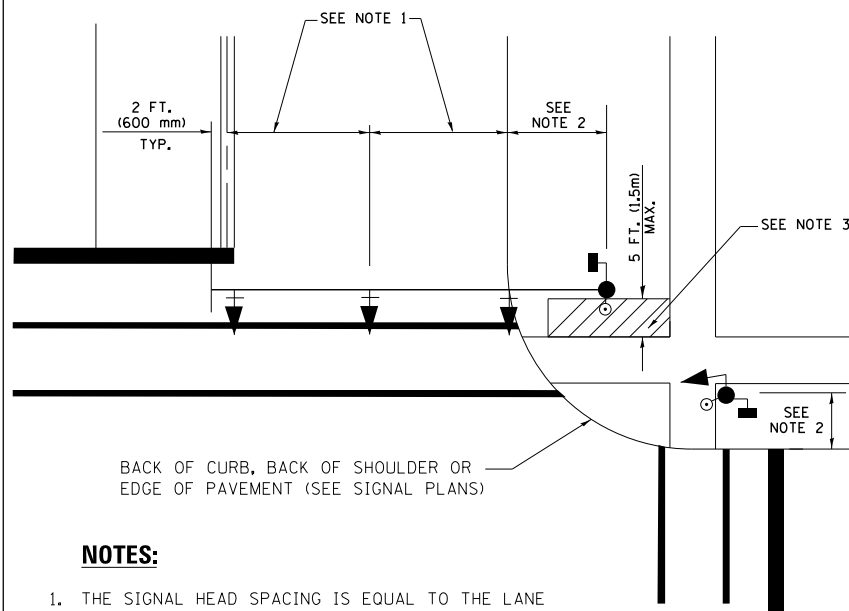
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N	LAKE	361	137
TS-05		CONTRACT NO. 60K80		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

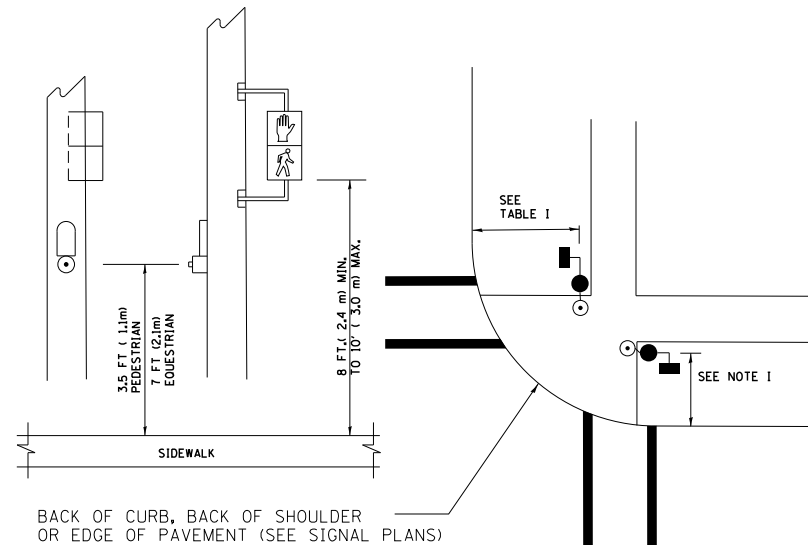
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

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

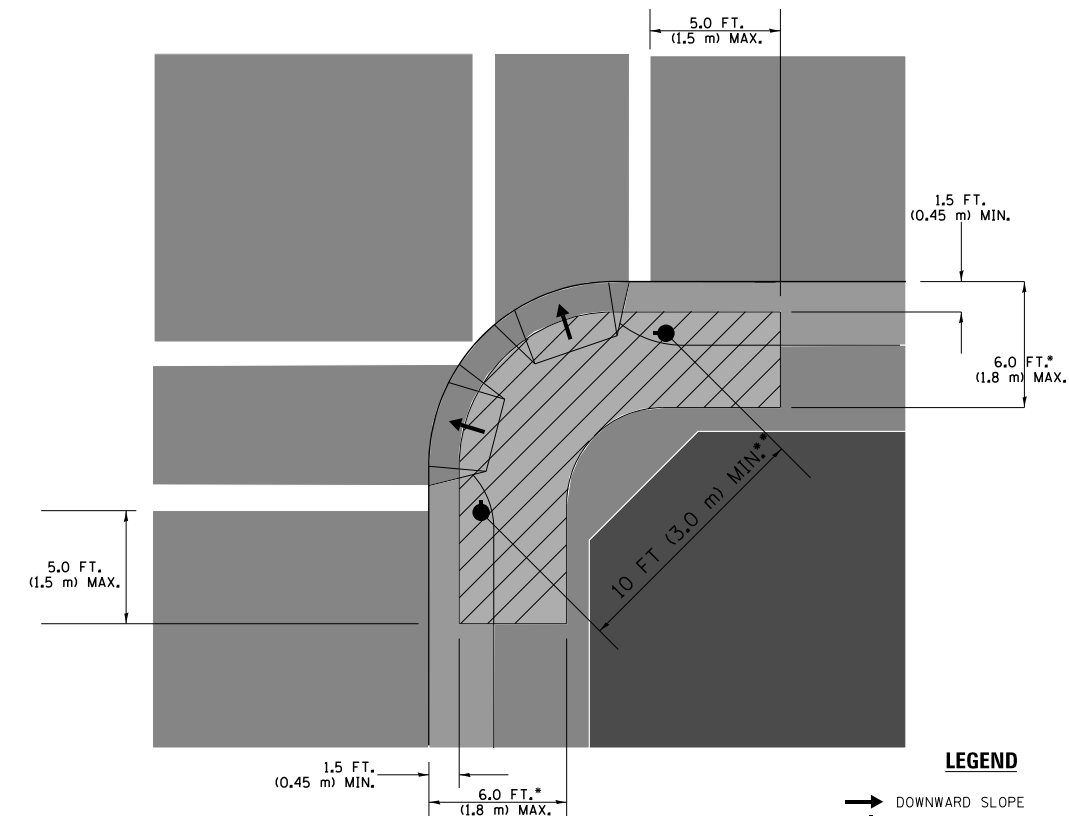
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

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

NOTES:

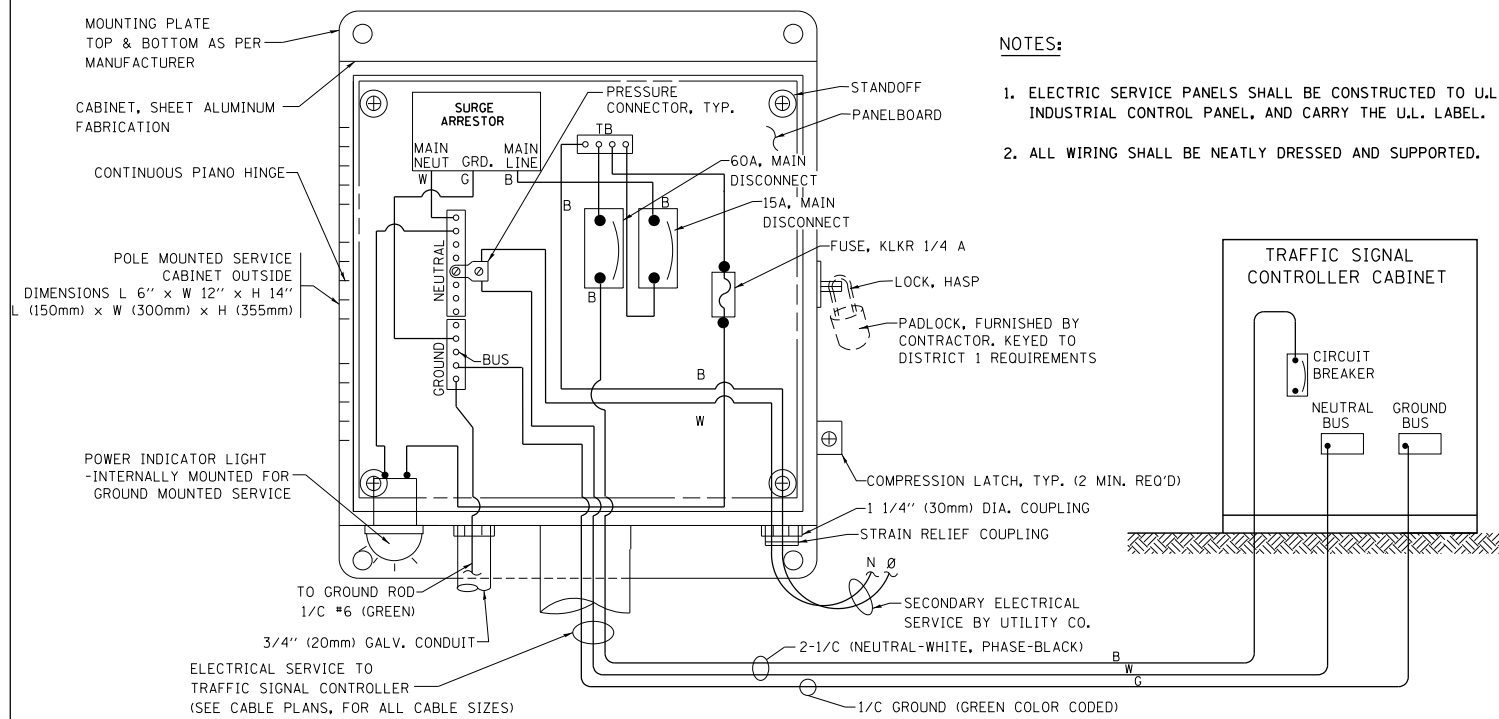
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM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

TRAFFIC SIGNAL EQUIPMENT OFFSET

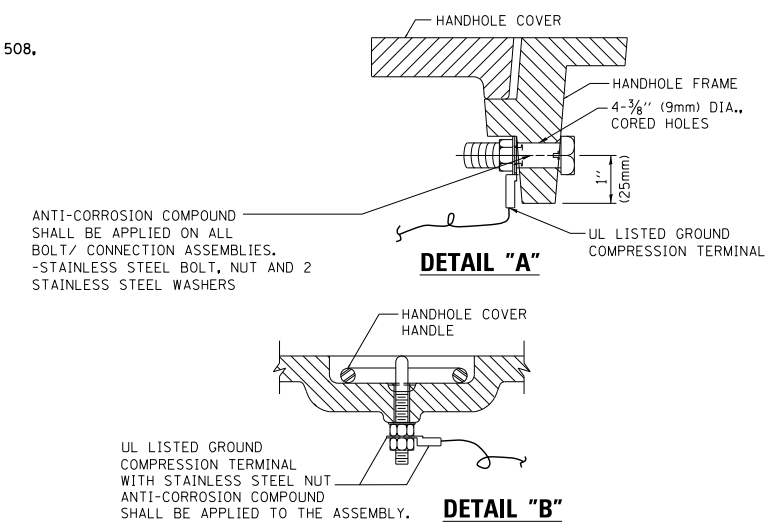
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10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

NOTES:

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

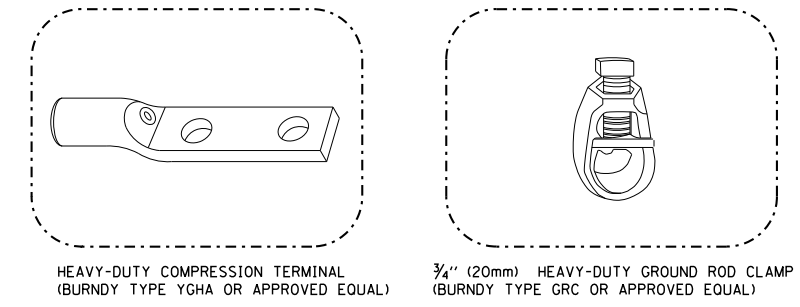
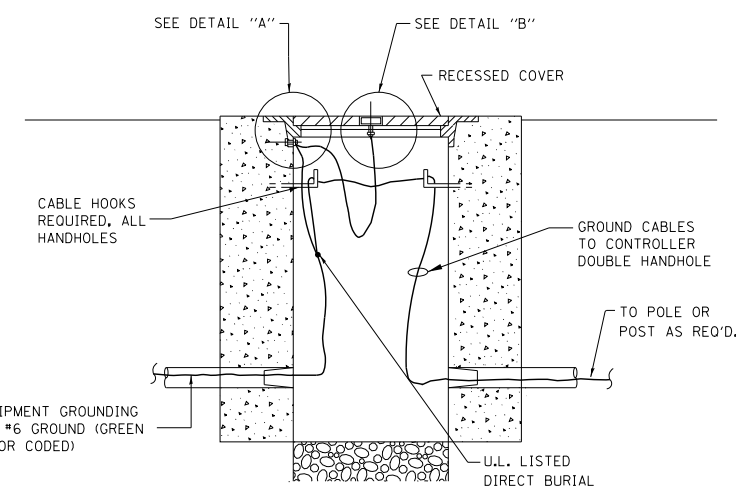


**ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
(NOT TO SCALE)**

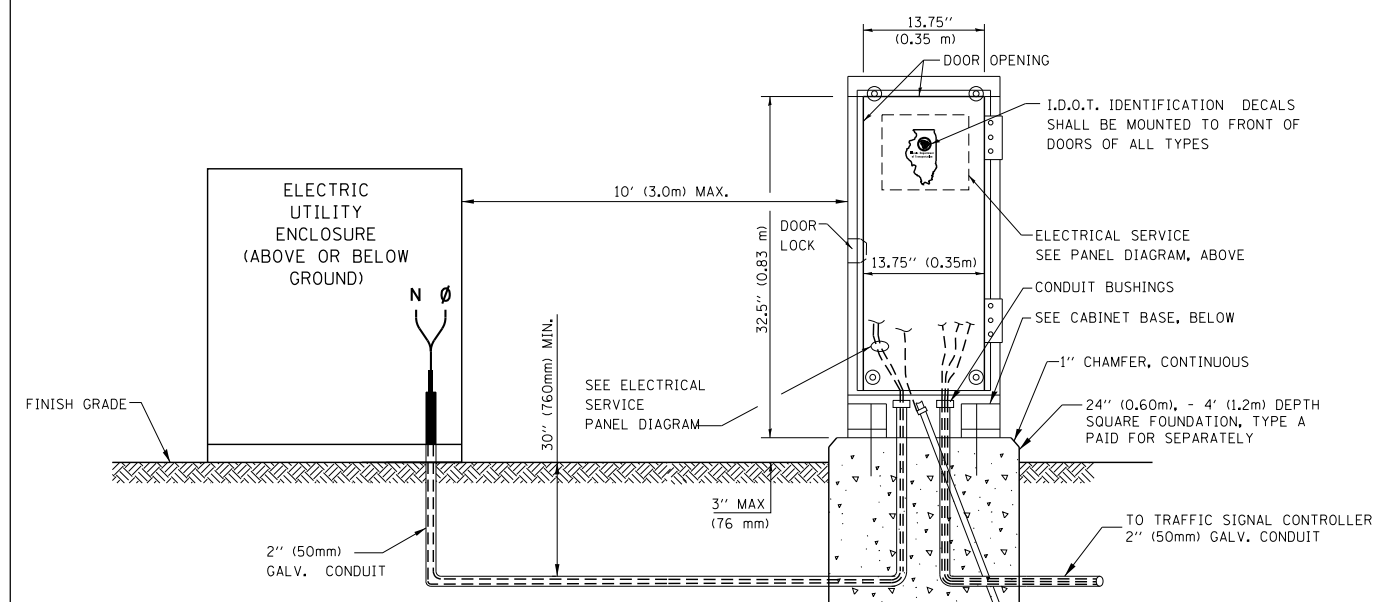
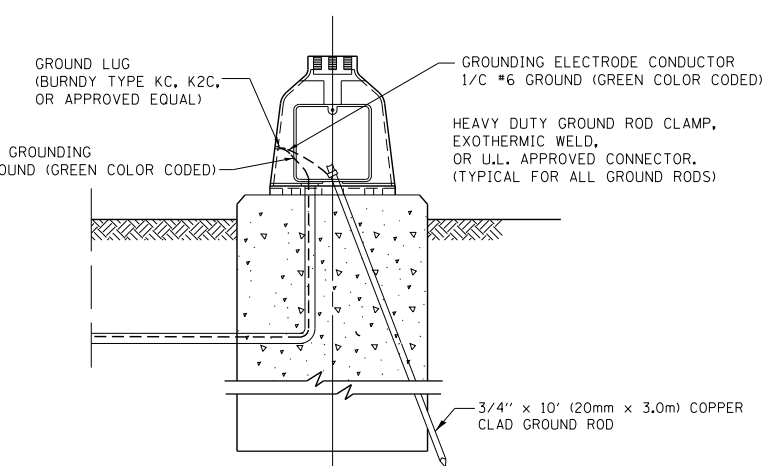
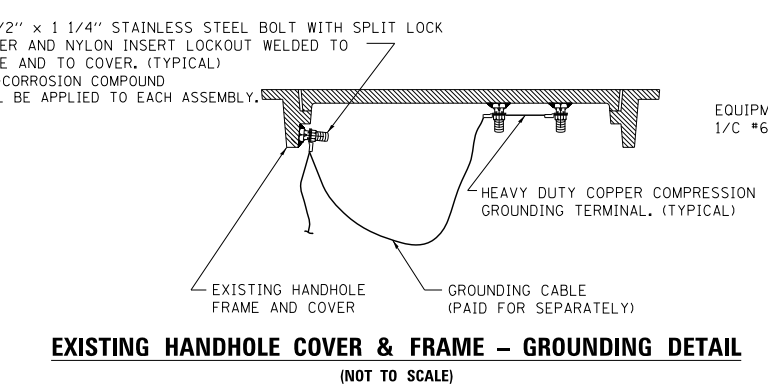


**NOTES:
GROUNDING SYSTEM**

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. 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.

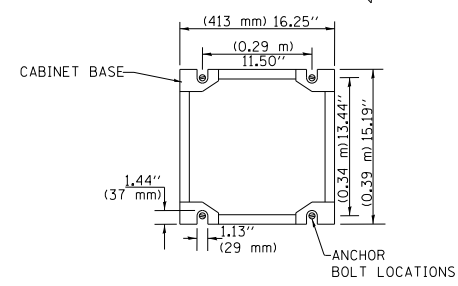


- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



**SERVICE INSTALLATION GROUND MOUNT
(NOT TO SCALE)**

**CABINET – BASE BOLT PATTERN
(NOT TO SCALE)**

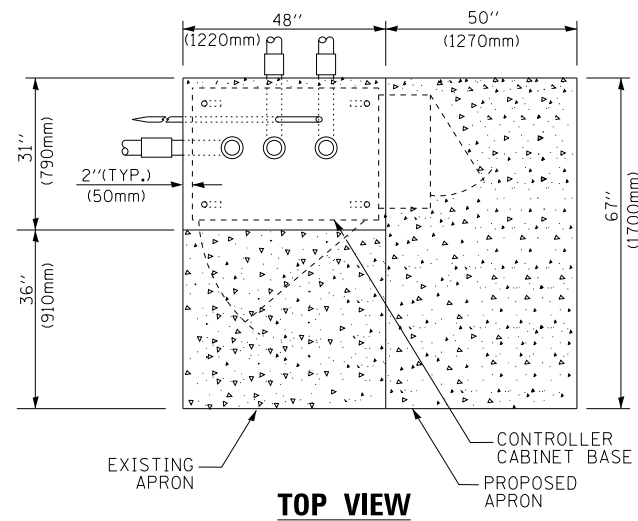


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		DATE - 10-28-09	REVISED -

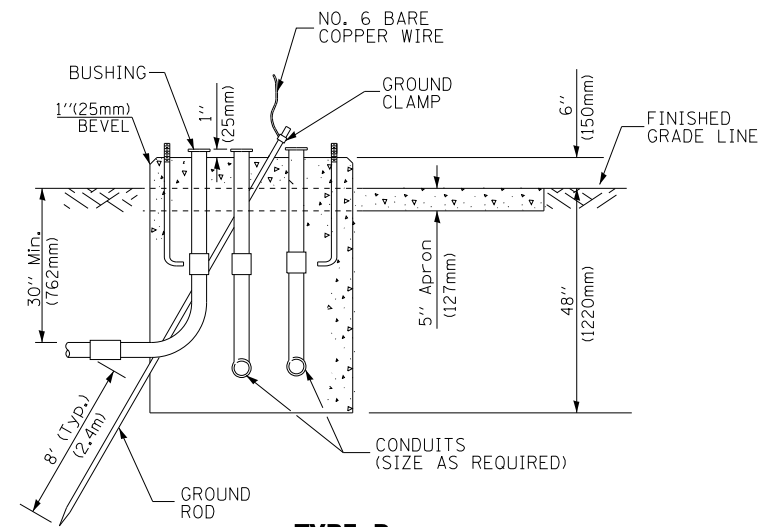
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET NO. 4 OF 7 SHEETS	STA.	TO STA.

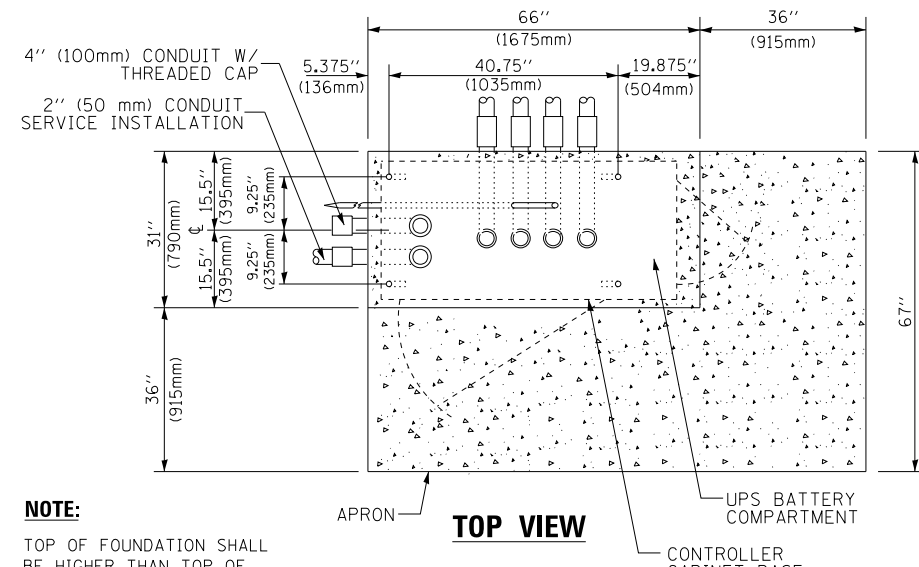
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N	LAKE	361	139
TS-05		CONTRACT NO. 60K80		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TOP VIEW

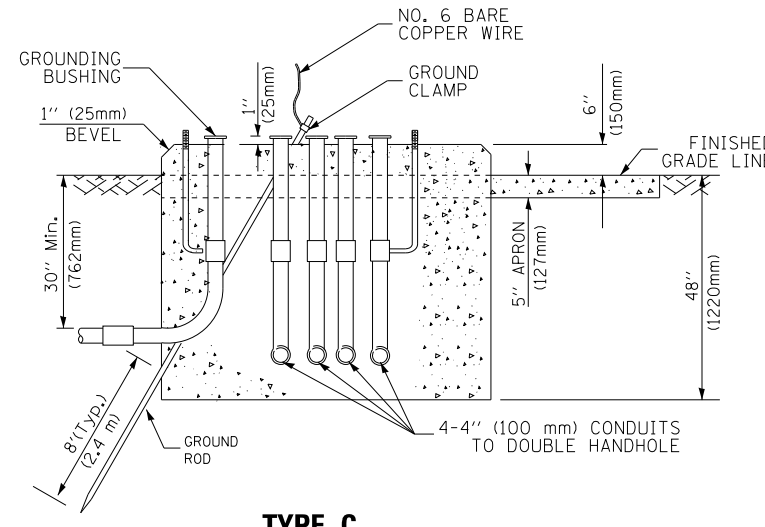


**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

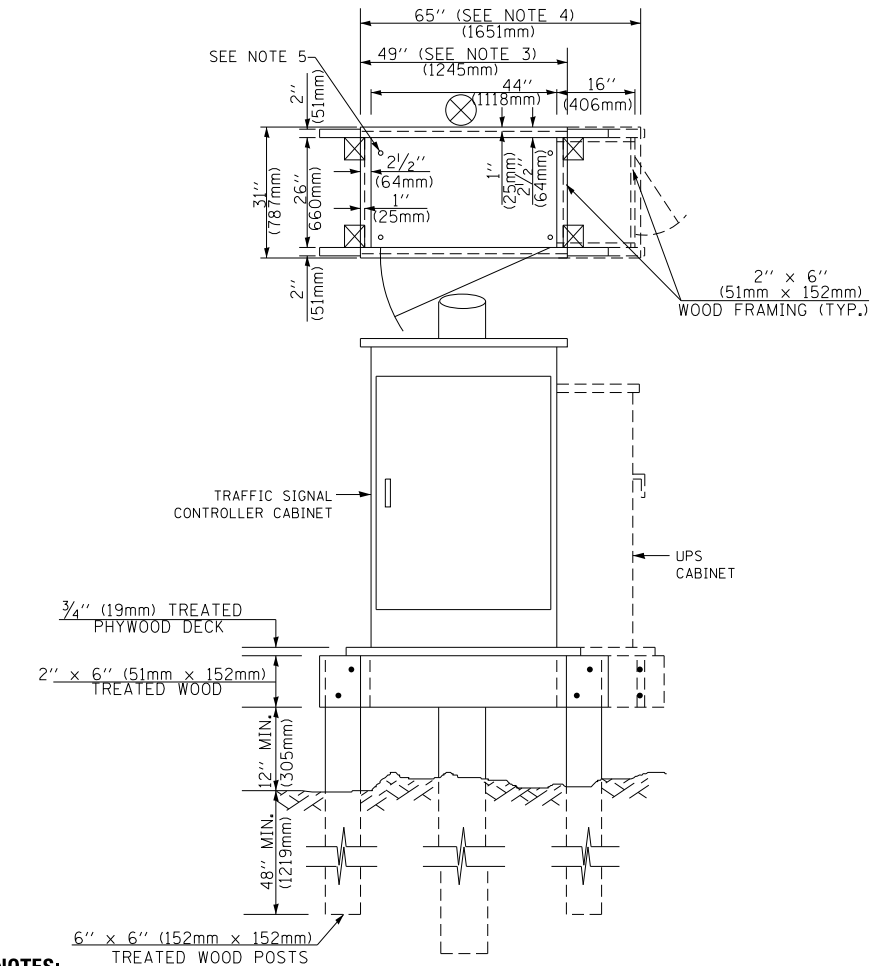


TOP VIEW

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



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



NOTES:

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

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

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

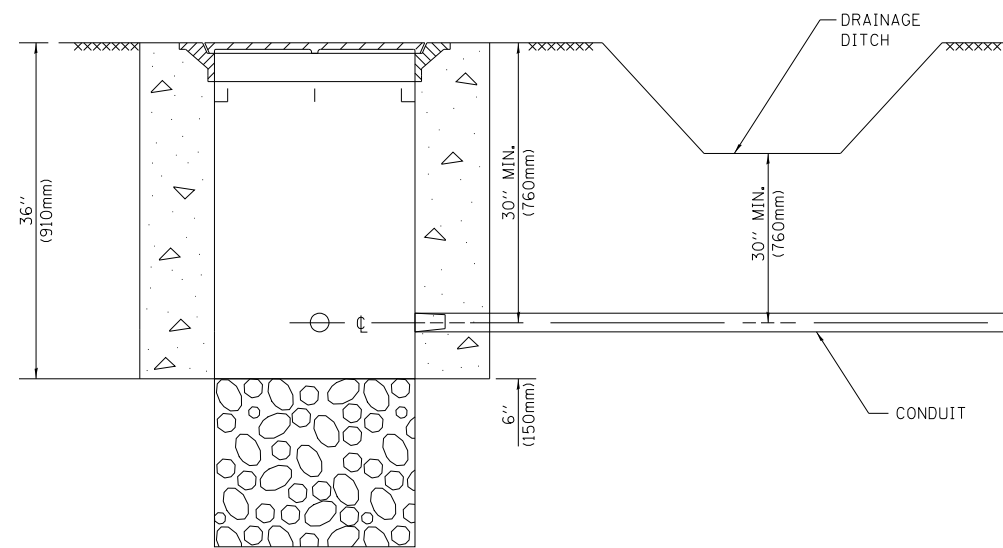
DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET NO. 5 OF 7 SHEETS	STA.	TO STA.

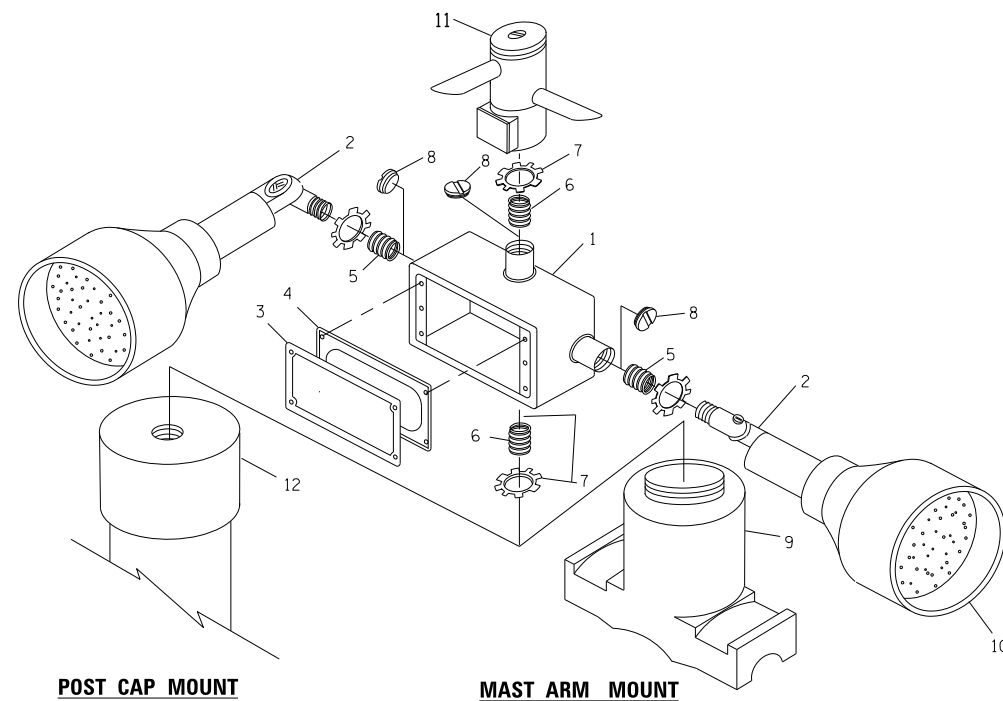
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TS-05			CONTRACT NO. 60K80	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

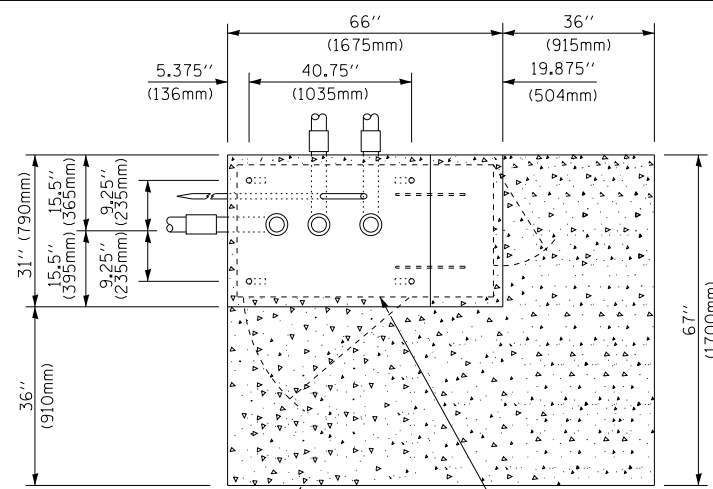
1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY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

HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)

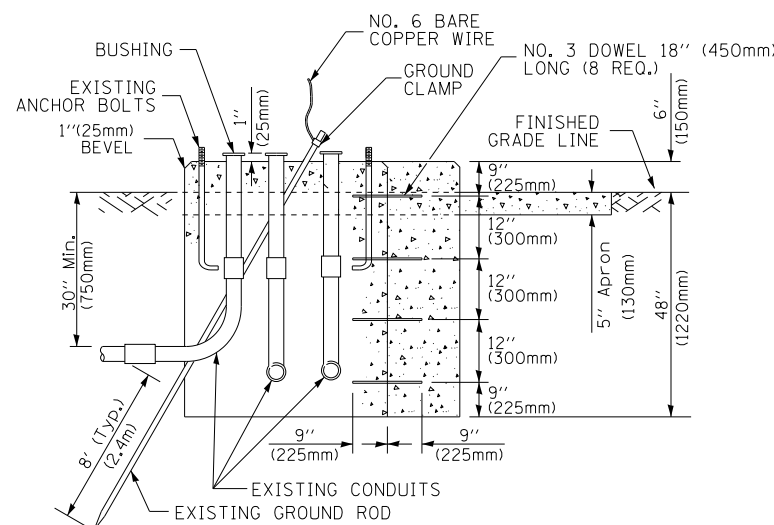


EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

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



TOP VIEW
(NOT TO SCALE)



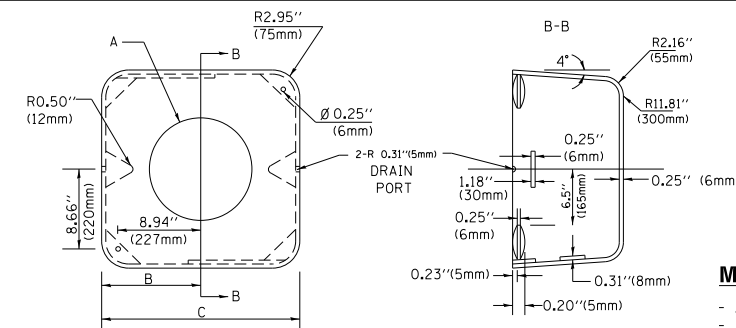
MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

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

NOTES:

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



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

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

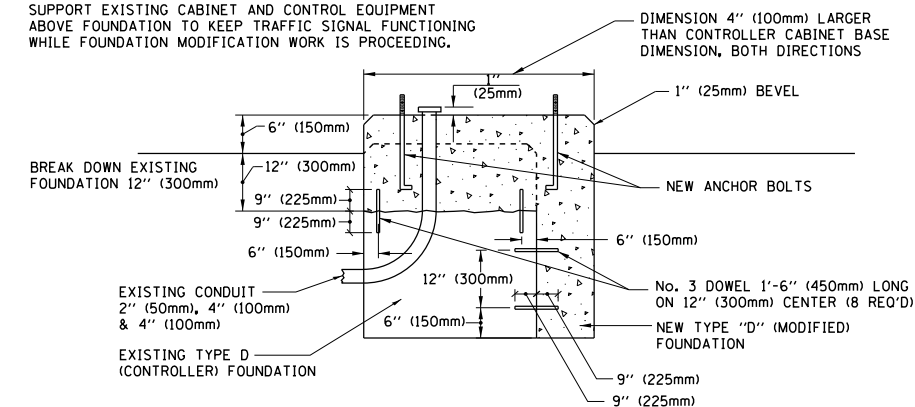
SHROUD

NOTES:

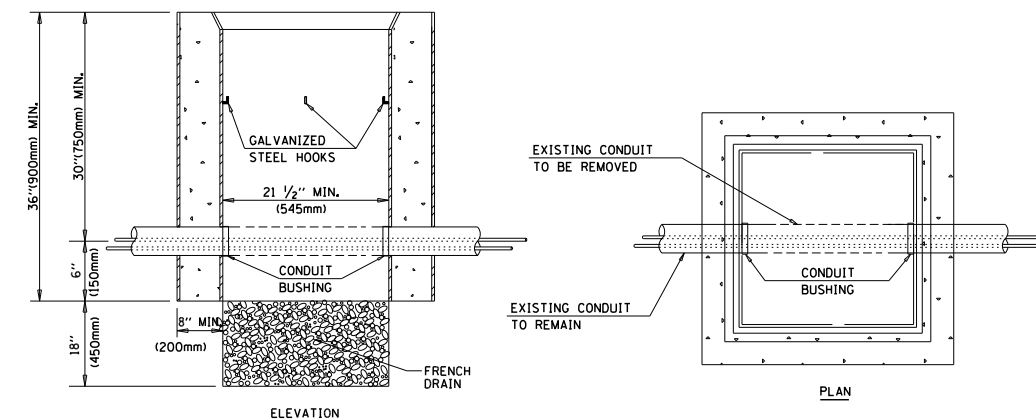
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

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



MODIFY EXISTING TYPE "D" FOUNDATION

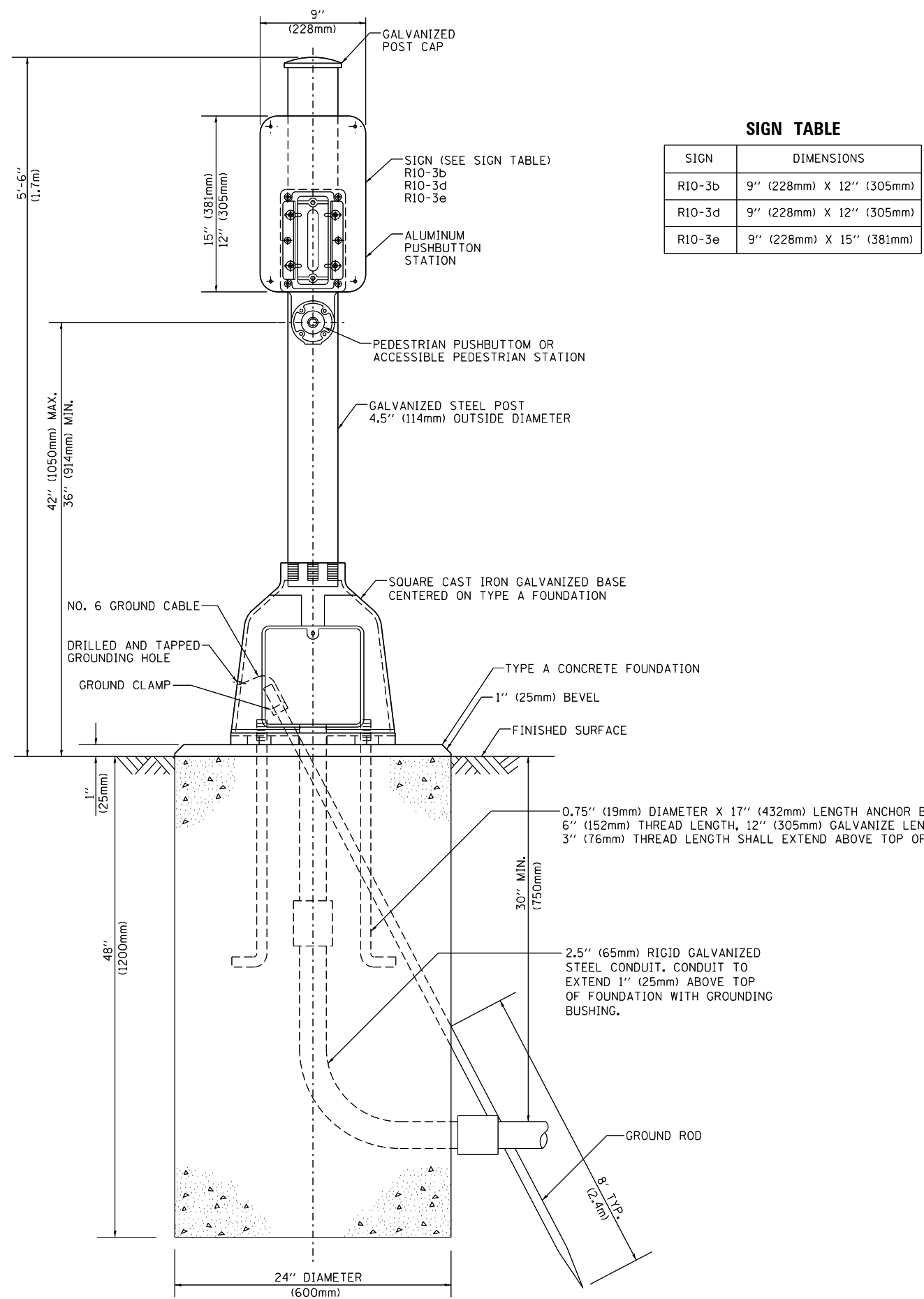


NOTES:

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

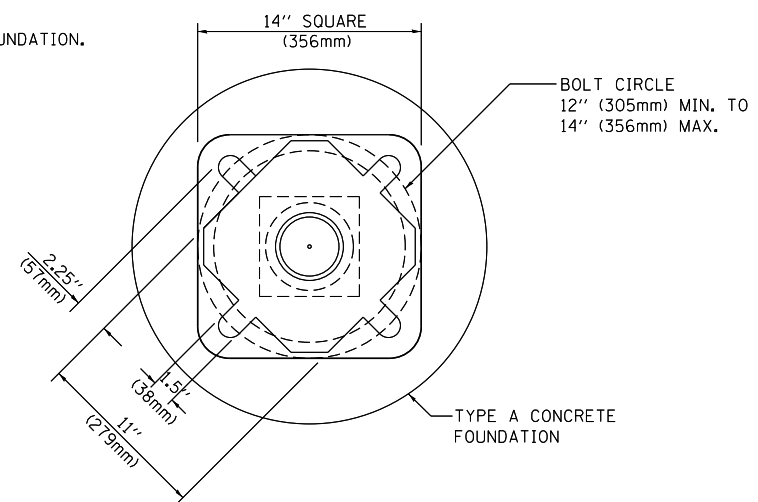
HANDHOLE TO INTERCEPT EXISTING CONDUIT

DISTRICT ONE		F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STANDARD TRAFFIC SIGNAL DESIGN DETAILS		346	125X-N	LAKE	361	141
SCALE: NONE		TS-05		CONTRACT NO. 60K80		
SHEET NO. 6 OF 7 SHEETS		FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT		



SIGN TABLE

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



BOLT PATTERN

PEDESTRIAN PUSH BUTTON POST, TYPE A

FILE NAME =	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14
ct:\pwork\pwork\footemj\d0108315\ts05.dgn		DRAWN - GND	REVISED -
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PLOT DATE = 1/13/2014		DATE - 10/1/2012	REVISED -

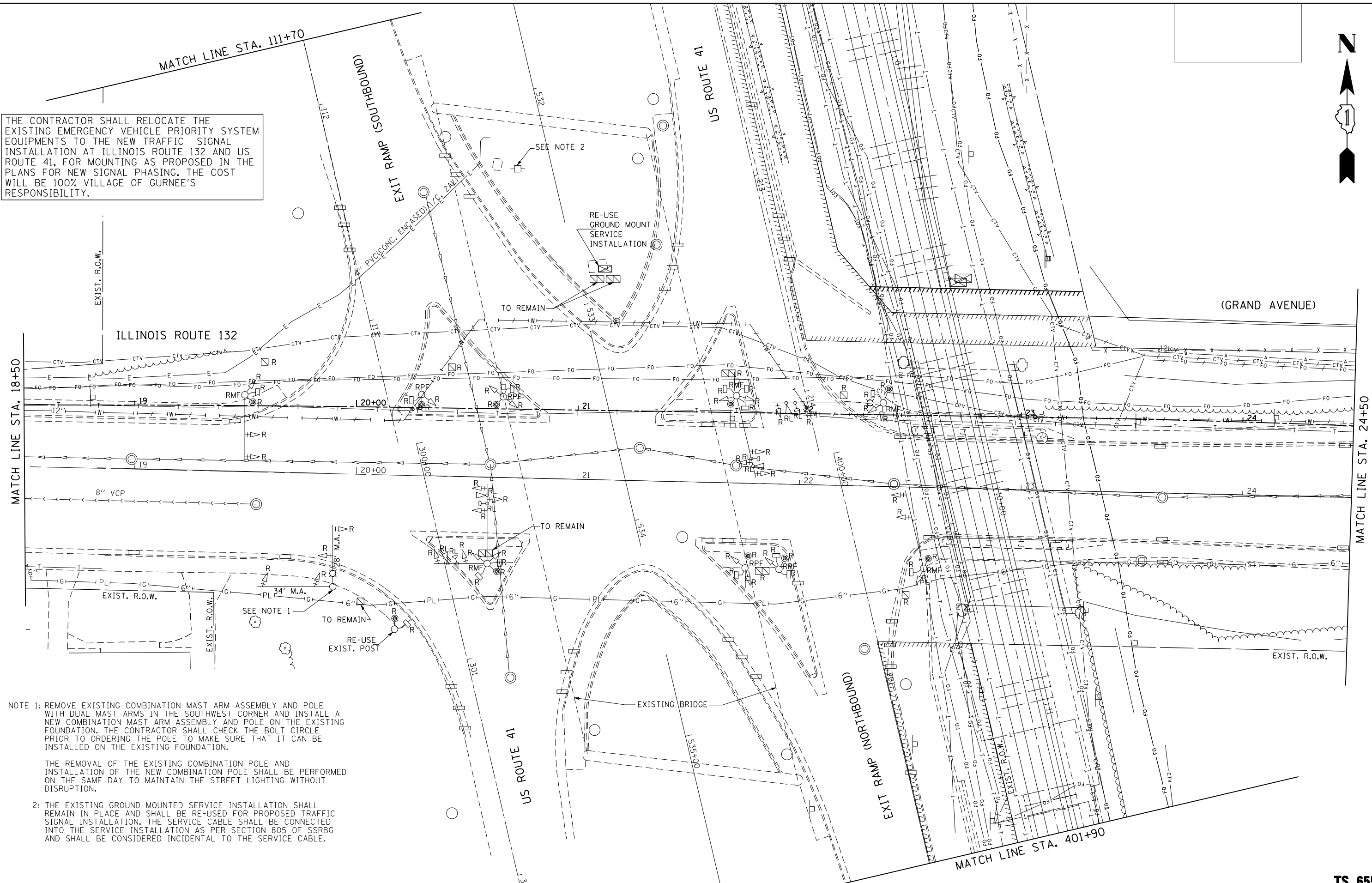
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET NO. 7 OF 7 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N	LAKE	361	142
TS-05			CONTRACT NO. 60K80	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM EQUIPMENTS TO THE NEW TRAFFIC SIGNAL INSTALLATION AT ILLINOIS ROUTE 132 AND US ROUTE 41, FOR MOUNTING AS PROPOSED IN THE PLANS FOR NEW SIGNAL PHASING. THE COST WILL BE 100% VILLAGE OF GURNEE'S RESPONSIBILITY.



NOTE 1: REMOVE EXISTING COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS IN THE SOUTHWEST CORNER AND INSTALL A NEW COMBINATION MAST ARM ASSEMBLY AND POLE ON THE EXISTING FOUNDATION. THE CONTRACTOR SHALL CHECK THE BOLT CIRCLE PRIOR TO ORDERING THE POLE TO MAKE SURE THAT IT CAN BE INSTALLED ON THE EXISTING FOUNDATION.

THE REMOVAL OF THE EXISTING COMBINATION POLE AND INSTALLATION OF THE NEW COMBINATION POLE SHALL BE PERFORMED ON THE SAME DAY TO MAINTAIN THE STREET LIGHTING WITHOUT DISRUPTION.

2: THE EXISTING GROUND MOUNTED SERVICE INSTALLATION SHALL REMAIN IN PLACE AND SHALL BE RE-USED FOR PROPOSED TRAFFIC SIGNAL INSTALLATION. THE SERVICE CABLE SHALL BE CONNECTED INTO THE SERVICE INSTALLATION AS PER SECTION 805 OF SSRBG AND SHALL BE CONSIDERED INCIDENTAL TO THE SERVICE CABLE.

FILE NAME =
\$FILEL\$



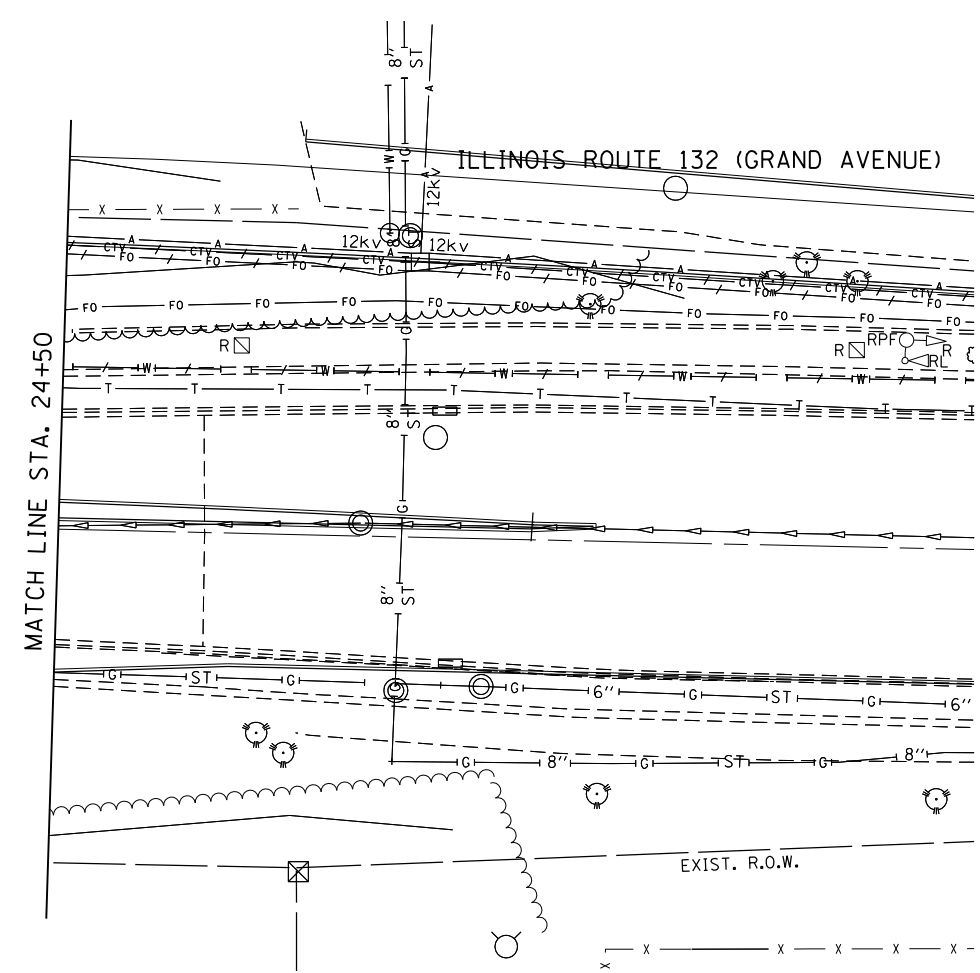
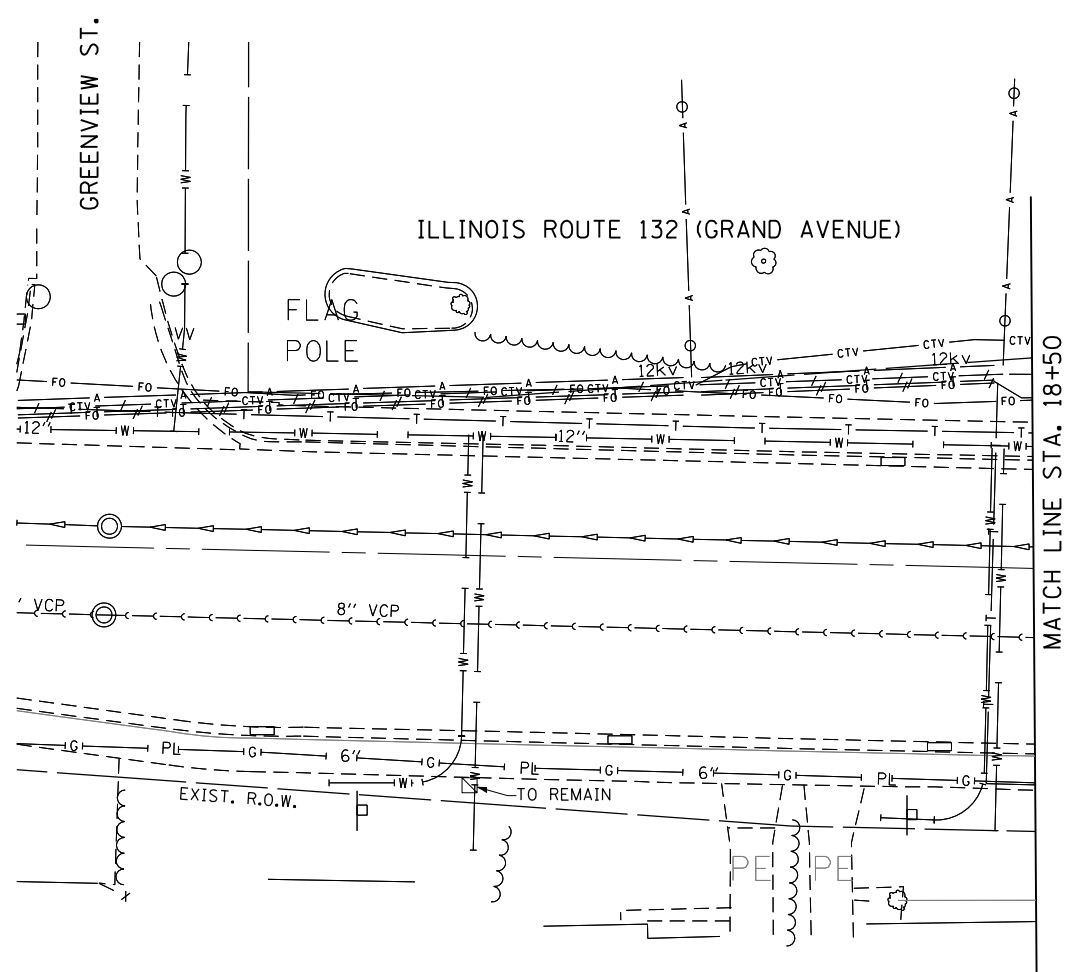
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PLOT SCALE = \$SCALE\$	DRAWN - EA, EB	REVISED -
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	DATE - 1/22/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN	
ILLINOIS ROUTE 132 AT US ROUTE 41 RAMPS	
(SHEET 1 OF 3)	
SCALE: 1"=20'	SHEET NO. 8 OF 35 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N	LAKE	361	143
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60K80	

TS 6550



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 CONTRACTOR'S BID PRICE.

- 1 EACH CONTROLLER AND CABINET COMPLETE
- 12 EACH SIGNAL HEAD, 1-FACE 3-SECTION, MAST ARM MOUNTED
- 1 EACH SIGNAL HEAD, 1-FACE 1-SECTION, BRACKET MOUNTED
- 2 EACH SIGNAL HEAD, 1-FACE 3-SECTION, BRACKET MOUNTED
- 2 EACH SIGNAL HEAD, 1-FACE 4-SECTION, MAST ARM MOUNTED
- 2 EACH OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
- 5 EACH OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
- 3 EACH COMBINATION SIGNAL HEAD, 2-FACE 1-3 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED
- 2 EACH COMBINATION SIGNAL HEAD, 2-FACE 1-4 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED
- 19 EACH TRAFFIC SIGNAL BACKPLATE
- 7 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED
- 2 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE, BRACKET MOUNTED
- 1 EACH PEDESTRIAN SIGNAL HEAD, 3-FACE, BRACKET MOUNTED
- 6 EACH TRAFFIC SIGNAL POST
- 3 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 1 EACH STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS
- 1 EACH STEEL COMBINATION MAST ARM ASSEMBLY AND POLE
- 10 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 28 FT. AND 34 FT.

FILE NAME =
\$FILEL\$



USER NAME = \$USER\$	DESIGNED - PKG	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - EA, EB	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 1/22/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN	
ILLINOIS ROUTE 132 AT US ROUTE 41 RAMPS	
(SHEET 2 OF 3)	
SCALE: 1"=20'	SHEET NO. 9 OF 35 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N	LAKE	361	144
CONTRACT NO. 60K80				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

TS 6550

MATCH LINE STA. 401+90

EXIT RAMP (NORTHBOUND)

US ROUTE 41

EXIST. R.O.W.

US ROUTE 41

EXIT RAMP (SOUTHBOUND)

MATCH LINE STA. 111+70



GA GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 200
CHICAGO, ILLINOIS 60631 TEL: (773) 774-5900

USER NAME = *\$USER*	DESIGNED - PKG	REVISED -
PLOT SCALE = *\$SCALE*	DRAWN - EA, EB	REVISED -
PLOT DATE = *\$DATE*	CHECKED - PKG	REVISED -
	DATE - 1/22/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN		
ILLINOIS ROUTE 132 AT US ROUTE 41 RAMPS		
(SHEET 3 OF 3)		
SCALE: 1"=20'	SHEET NO. 10 OF 35 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N	LAKE	361	145
CONTRACT NO. 60K80				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

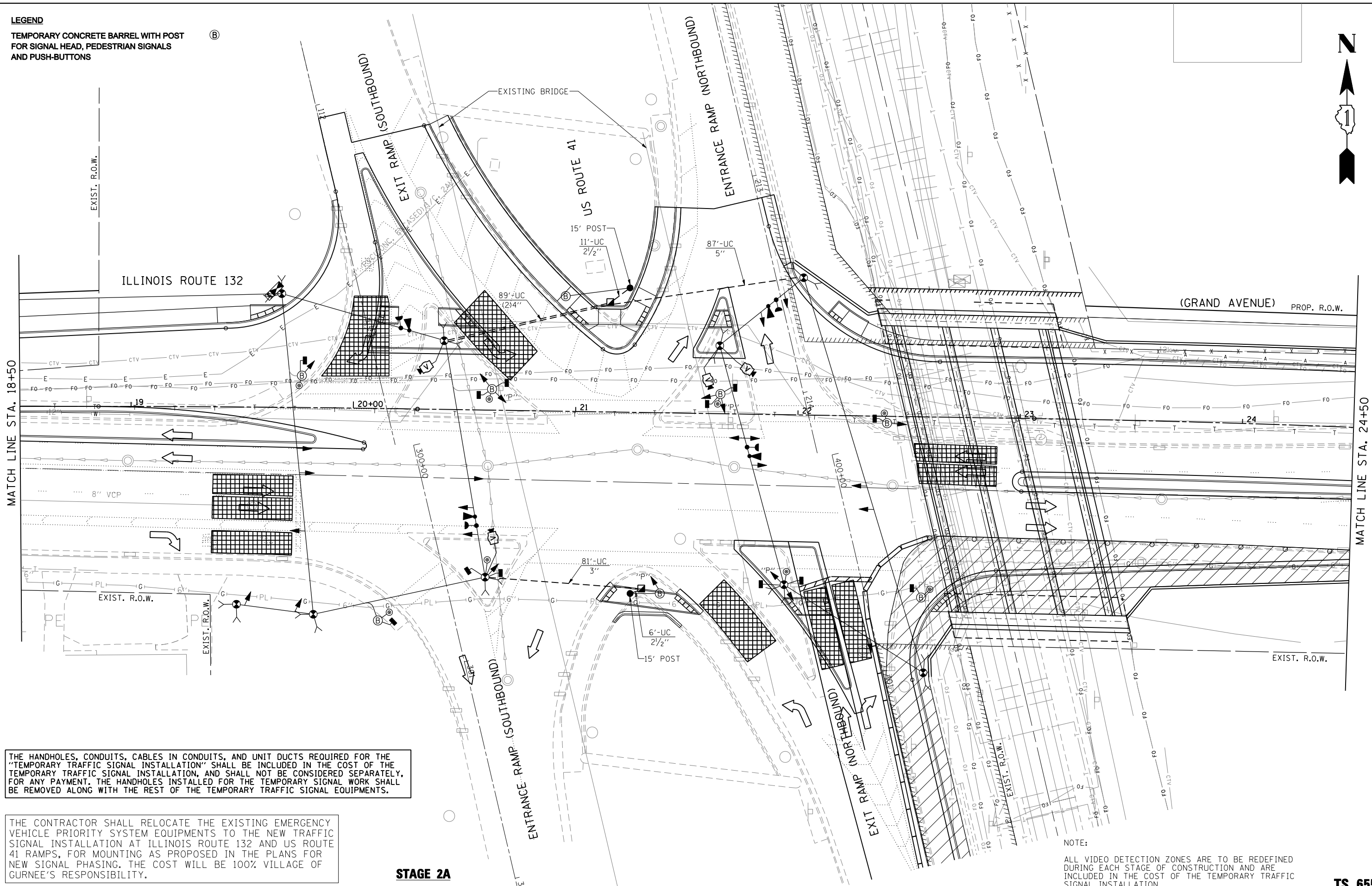
TS 6550

FILE NAME =
\$FILEL\$

LEGEND

TEMPORARY CONCRETE BARREL WITH POST
FOR SIGNAL HEAD, PEDESTRIAN SIGNALS
AND PUSH-BUTTONS

Ⓟ



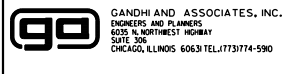
THE HANDHOLES, CONDUITS, CABLES IN CONDUITS, AND UNIT DUCTS REQUIRED FOR THE "TEMPORARY TRAFFIC SIGNAL INSTALLATION" SHALL BE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION, AND SHALL NOT BE CONSIDERED SEPARATELY. FOR ANY PAYMENT, THE HANDHOLES INSTALLED FOR THE TEMPORARY SIGNAL WORK SHALL BE REMOVED ALONG WITH THE REST OF THE TEMPORARY TRAFFIC SIGNAL EQUIPMENTS.

THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM EQUIPMENTS TO THE NEW TRAFFIC SIGNAL INSTALLATION AT ILLINOIS ROUTE 132 AND US ROUTE 41 RAMPS, FOR MOUNTING AS PROPOSED IN THE PLANS FOR NEW SIGNAL PHASING. THE COST WILL BE 100% VILLAGE OF GURNEE'S RESPONSIBILITY.

STAGE 2A

NOTE:
ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

FILE NAME =
#FILEL#



GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 300
CHICAGO, ILLINOIS 60631 TEL: 773-774-590

USER NAME = #USER#	DESIGNED - PKG	REVISED -
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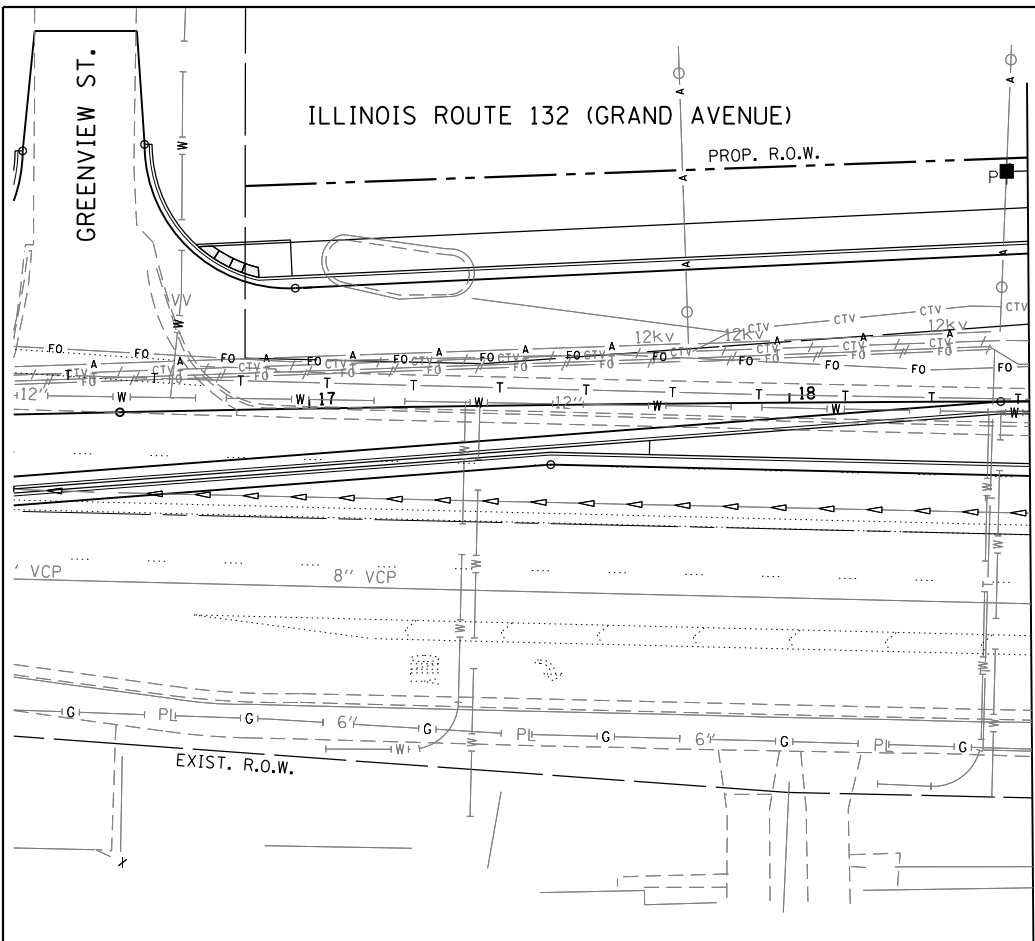
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 132 AT US ROUTE 41 RAMPS
STAGE 2A (SHEET 1 OF 2)

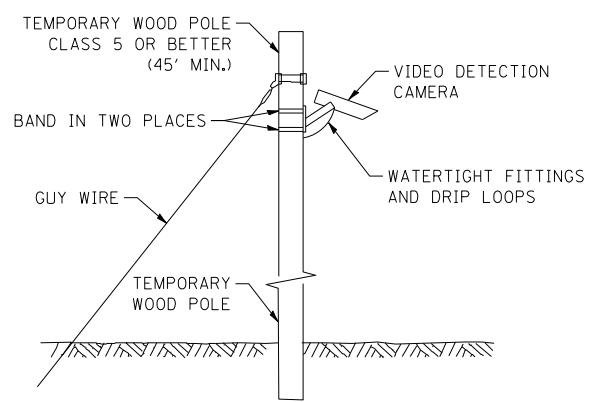
SCALE: 1"=20'
SHEET NO. 11 OF 35 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N	LAKE	361	146
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60K80	

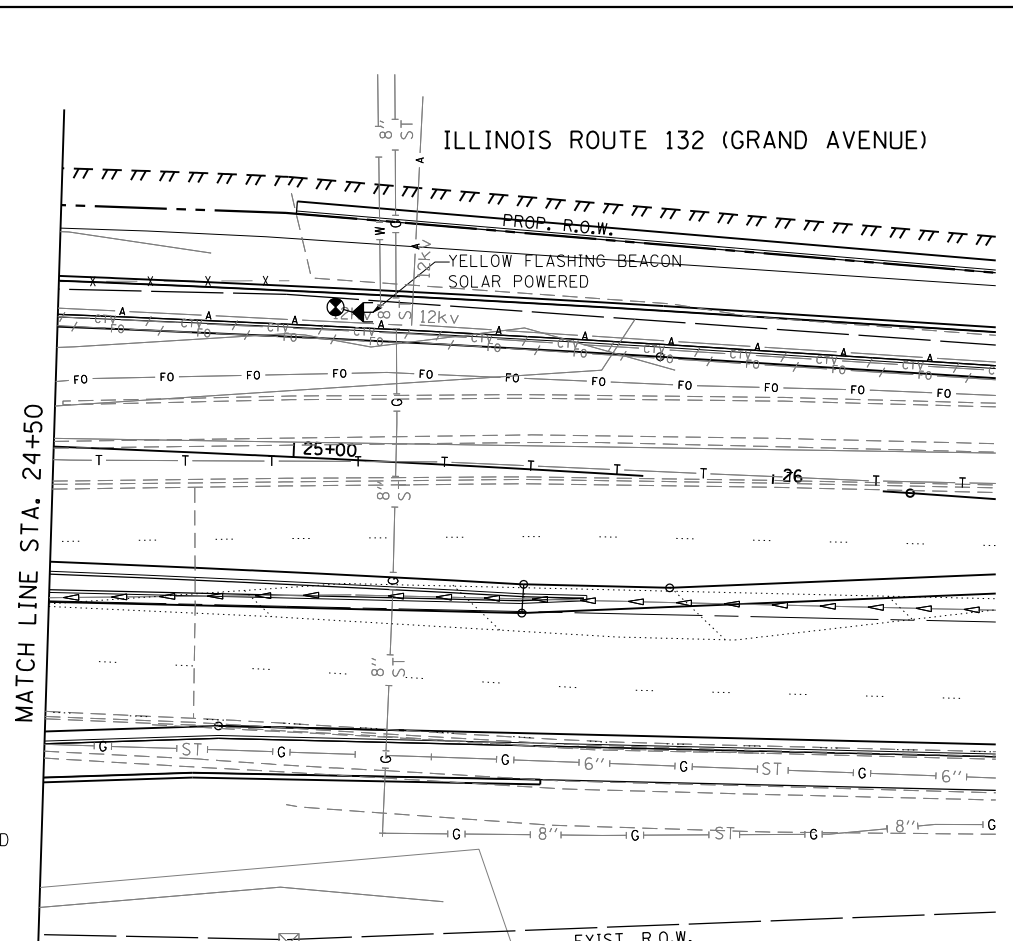
TS 6550



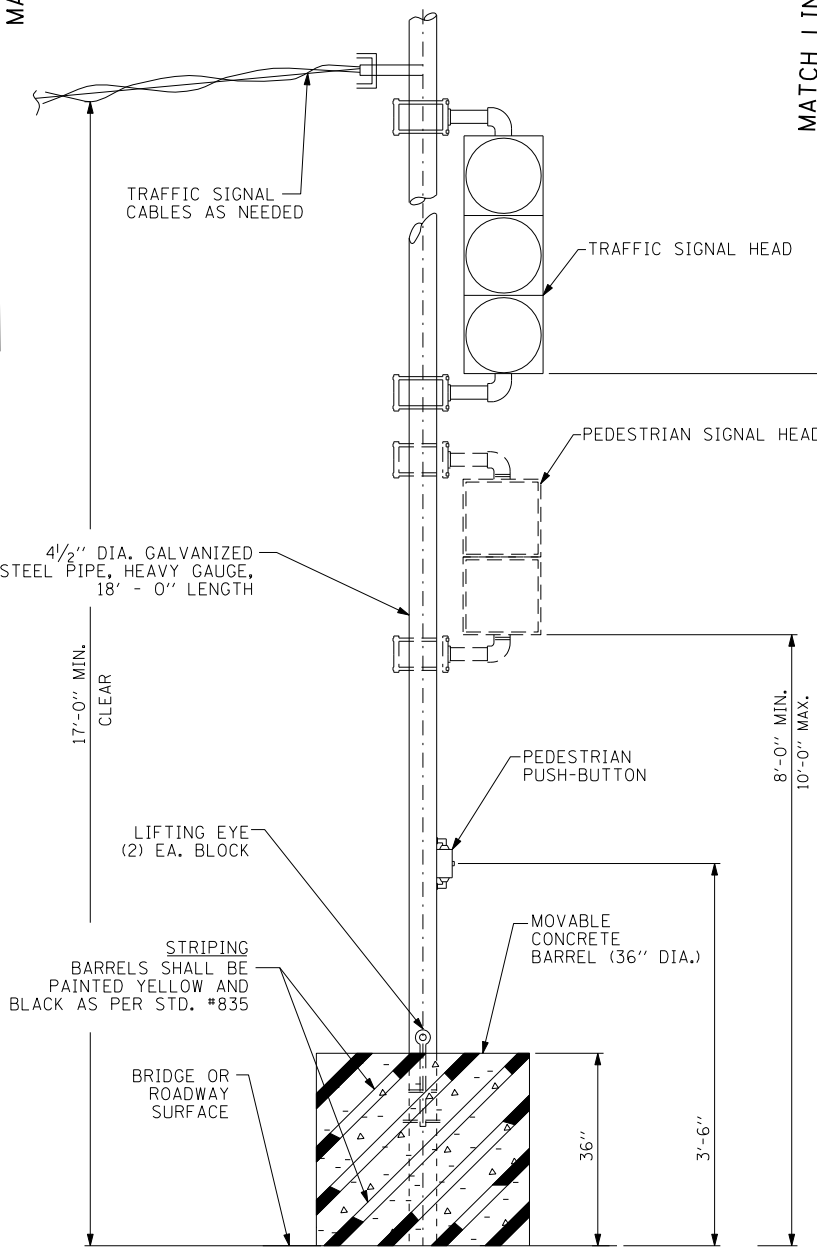
MATCH LINE STA. 18+50



TEMPORARY VIDEO DETECTION MOUNTING DETAIL
(NOT TO SCALE)



MATCH LINE STA. 24+50



TEMPORARY CONCRETE BARREL WITH POST

N.T.S.

NOTE:
ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

TRAFFIC SIGNAL PLAN LEGEND



FILE NAME =
\$FILEL\$



USER NAME = \$USER\$	DESIGNED - PKG	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - EA, EB	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 1/22/2016	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

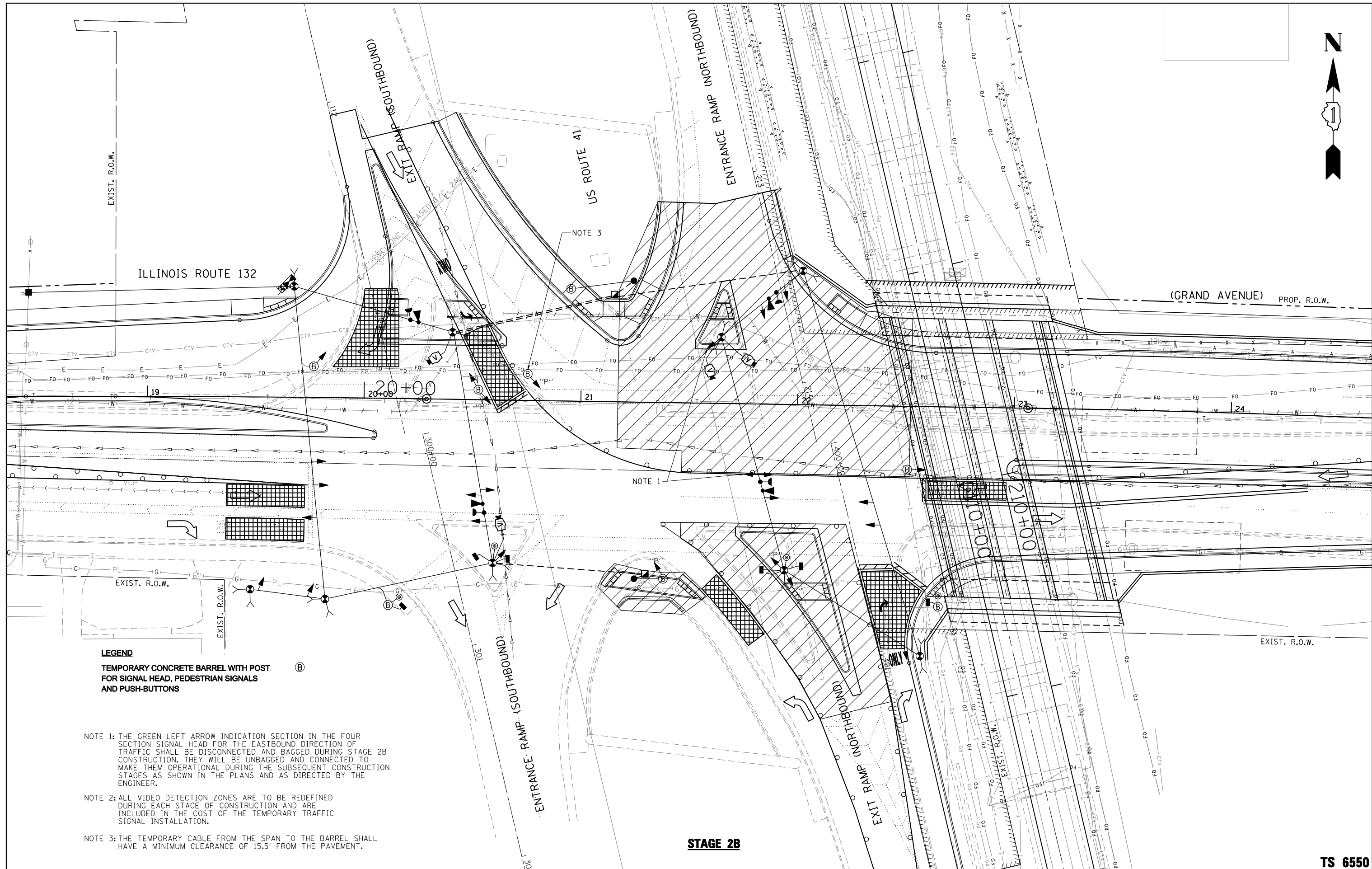
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 132 AT US ROUTE 41 RAMPS
STAGE 2A (SHEET 2 OF 2)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N	LAKE	361	147
CONTRACT NO. 60K80				

TS 6550

SCALE: 1"=20' SHEET NO. 12 OF 35 SHEETS STA. TO STA.

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



LEGEND

ⓑ TEMPORARY CONCRETE BARREL WITH POST FOR SIGNAL HEAD, PEDESTRIAN SIGNALS AND PUSH-BUTTONS

- NOTE 1: THE GREEN LEFT ARROW INDICATION SECTION IN THE FOUR SECTION SIGNAL HEAD FOR THE EASTBOUND DIRECTION OF TRAFFIC SHALL BE DISCONNECTED AND BAGGED DURING STAGE 2B CONSTRUCTION. THEY WILL BE UNBAGGED AND CONNECTED TO MAKE THEM OPERATIONAL DURING THE SUBSEQUENT CONSTRUCTION STAGES AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER.
- NOTE 2: ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- NOTE 3: THE TEMPORARY CABLE FROM THE SPAN TO THE BARREL SHALL HAVE A MINIMUM CLEARANCE OF 15.5' FROM THE PAVEMENT.

STAGE 2B

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 132 AT US ROUTE 41 RAMPS
STAGE 2B**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N	LAKE	361	148
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60K80	

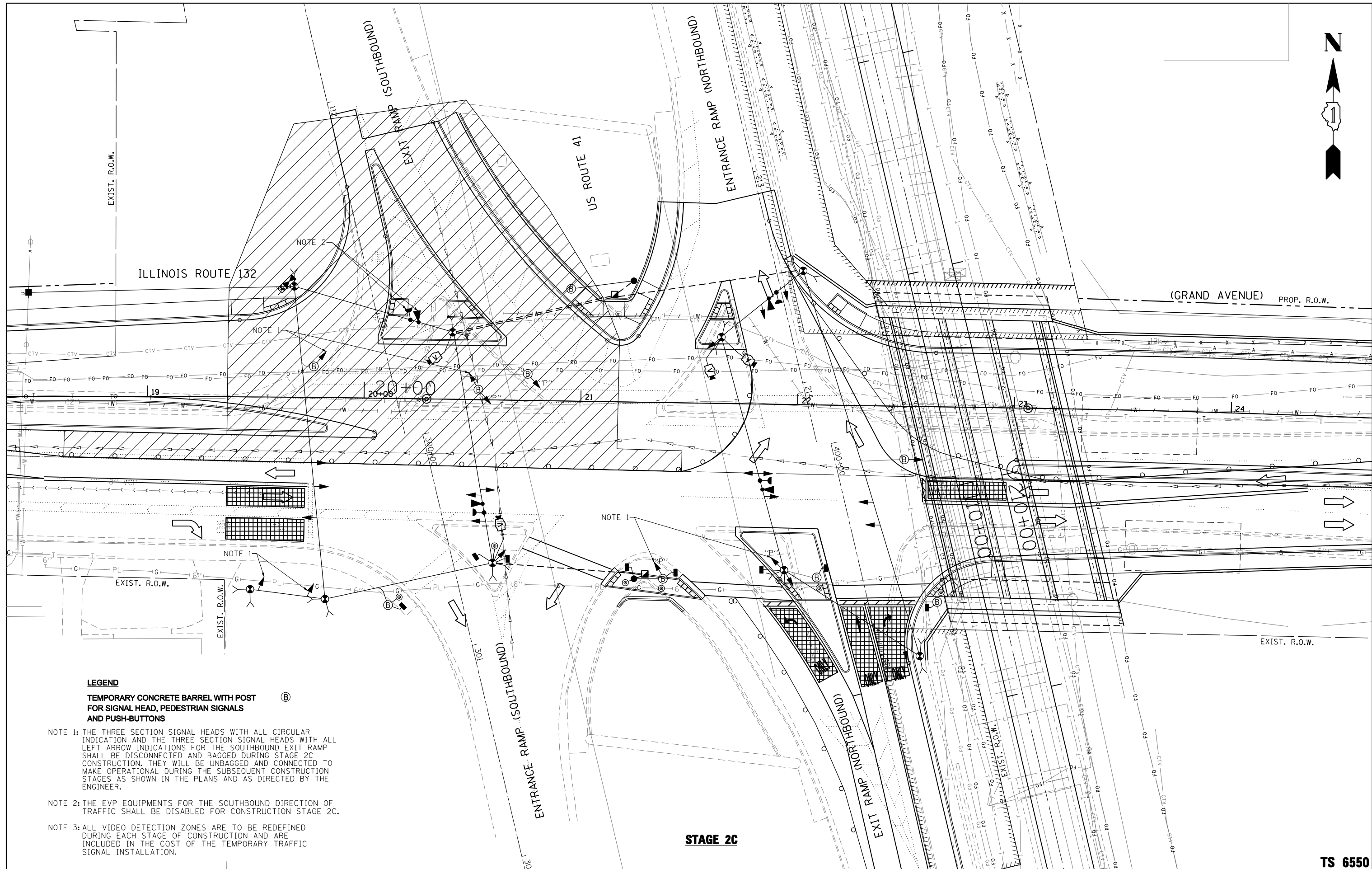
TS 6550

FILE NAME =
\$FILEL\$

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 300
CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900

USER NAME = \$USER\$	DESIGNED - PKG	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - EA, EB	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 1/22/2016	REVISED -

SCALE: 1"=20' SHEET NO. 13 OF 35 SHEETS STA. TO STA.



LEGEND

TEMPORARY CONCRETE BARREL WITH POST FOR SIGNAL HEAD, PEDESTRIAN SIGNALS AND PUSH-BUTTONS (B)

NOTE 1: THE THREE SECTION SIGNAL HEADS WITH ALL CIRCULAR INDICATION AND THE THREE SECTION SIGNAL HEADS WITH ALL LEFT ARROW INDICATIONS FOR THE SOUTHBOUND EXIT RAMP SHALL BE DISCONNECTED AND BAGGED DURING STAGE 2C CONSTRUCTION. THEY WILL BE UNBAGGED AND CONNECTED TO MAKE OPERATIONAL DURING THE SUBSEQUENT CONSTRUCTION STAGES AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER.

NOTE 2: THE EVP EQUIPMENTS FOR THE SOUTHBOUND DIRECTION OF TRAFFIC SHALL BE DISABLED FOR CONSTRUCTION STAGE 2C.

NOTE 3: ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

STAGE 2C

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 132 AT US ROUTE 41 RAMPS
STAGE 2C**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N	LAKE	361	149
CONTRACT NO. 60K80				

TS 6550

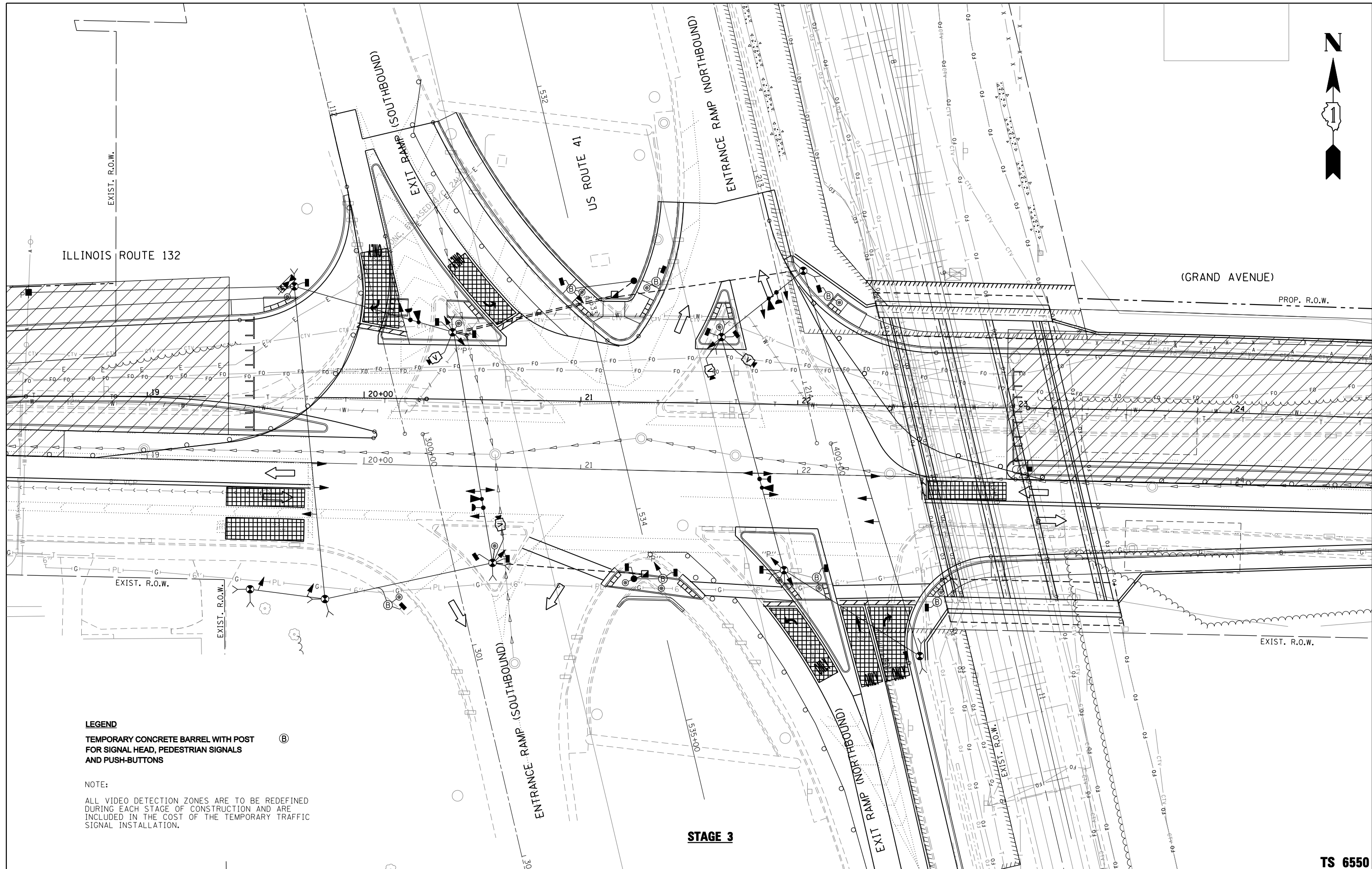
SCALE: 1"=20' SHEET NO. 14 OF 35 SHEETS STA. TO STA.

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

FILE NAME =
#FILEL#

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60630 TEL: 773/774-590

USER NAME = #USER#	DESIGNED - PKG	REVISED -
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PLOT DATE = #DATE#	CHECKED - PKG	REVISED -
	DATE - 1/22/2016	REVISED -



LEGEND
 TEMPORARY CONCRETE BARREL WITH POST FOR SIGNAL HEAD, PEDESTRIAN SIGNALS AND PUSH-BUTTONS (B)

NOTE:
 ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

STAGE 3

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
 ILLINOIS ROUTE 132 AT US ROUTE 41 RAMPS
 STAGE 3**
 SCALE: 1"=20' SHEET NO. 15 OF 35 SHEETS STA. TO STA.

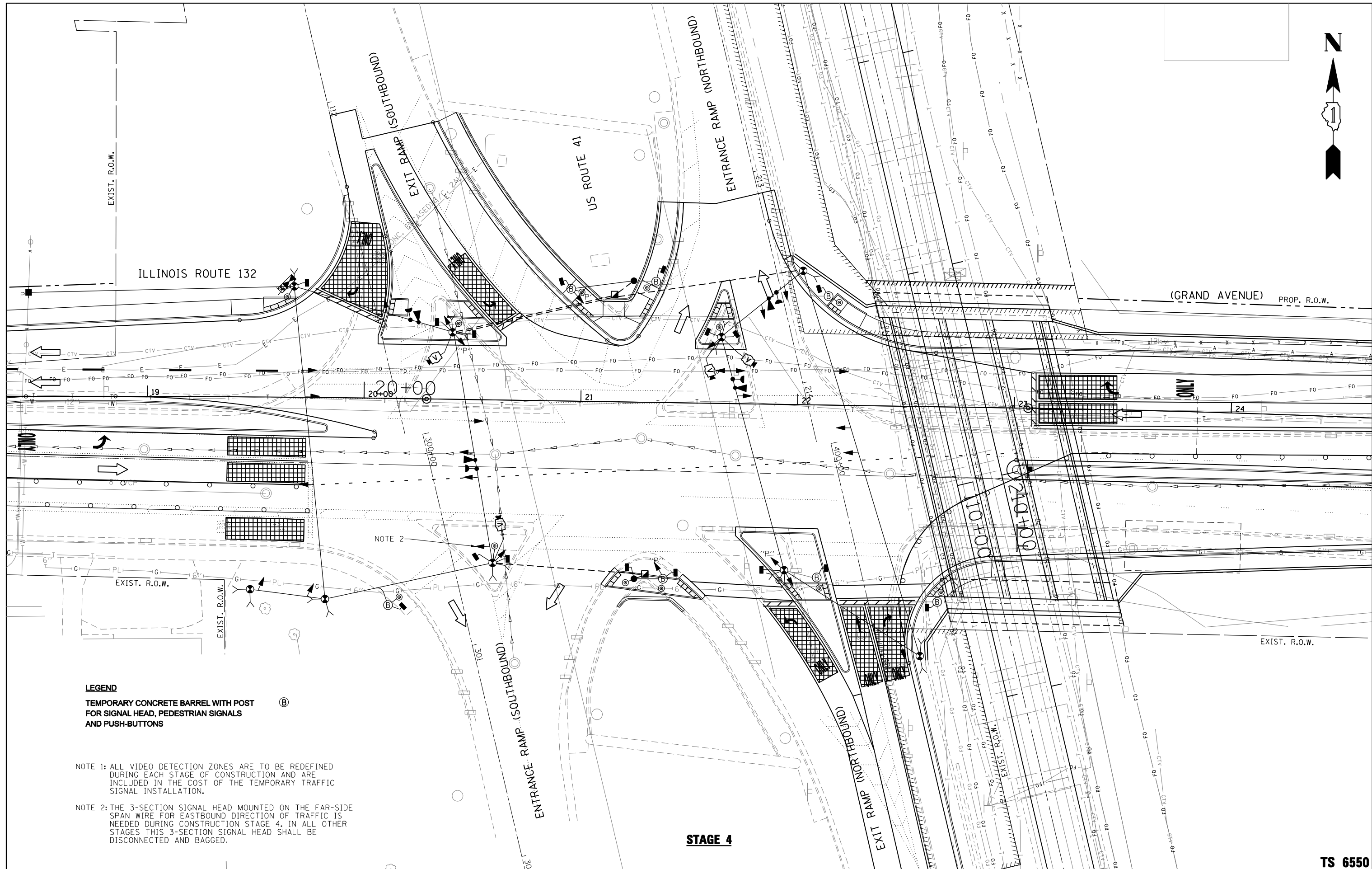
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N	LAKE	361	150
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60K80	

TS 6550

FILE NAME =
 \$FILEL\$

GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 6035 N. NORTHWEST HIGHWAY
 SUITE 200
 CHICAGO, ILLINOIS 60631 TEL: (773) 774-590

USER NAME = \$USER\$	DESIGNED - PKG	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - EA, EB	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 1/22/2016	REVISED -



LEGEND
 TEMPORARY CONCRETE BARREL WITH POST FOR SIGNAL HEAD, PEDESTRIAN SIGNALS AND PUSH-BUTTONS (B)

NOTE 1: ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

NOTE 2: THE 3-SECTION SIGNAL HEAD MOUNTED ON THE FAR-SIDE SPAN WIRE FOR EASTBOUND DIRECTION OF TRAFFIC IS NEEDED DURING CONSTRUCTION STAGE 4. IN ALL OTHER STAGES THIS 3-SECTION SIGNAL HEAD SHALL BE DISCONNECTED AND BAGGED.

STAGE 4

FILE NAME =
 \$FILEL\$



GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 6035 N. NORTHWEST HIGHWAY
 SUITE 200
 CHICAGO, ILLINOIS 60631 TEL: (773) 774-590

USER NAME = \$USER\$	DESIGNED - PKG	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - EA, EB	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 1/22/2016	REVISED -

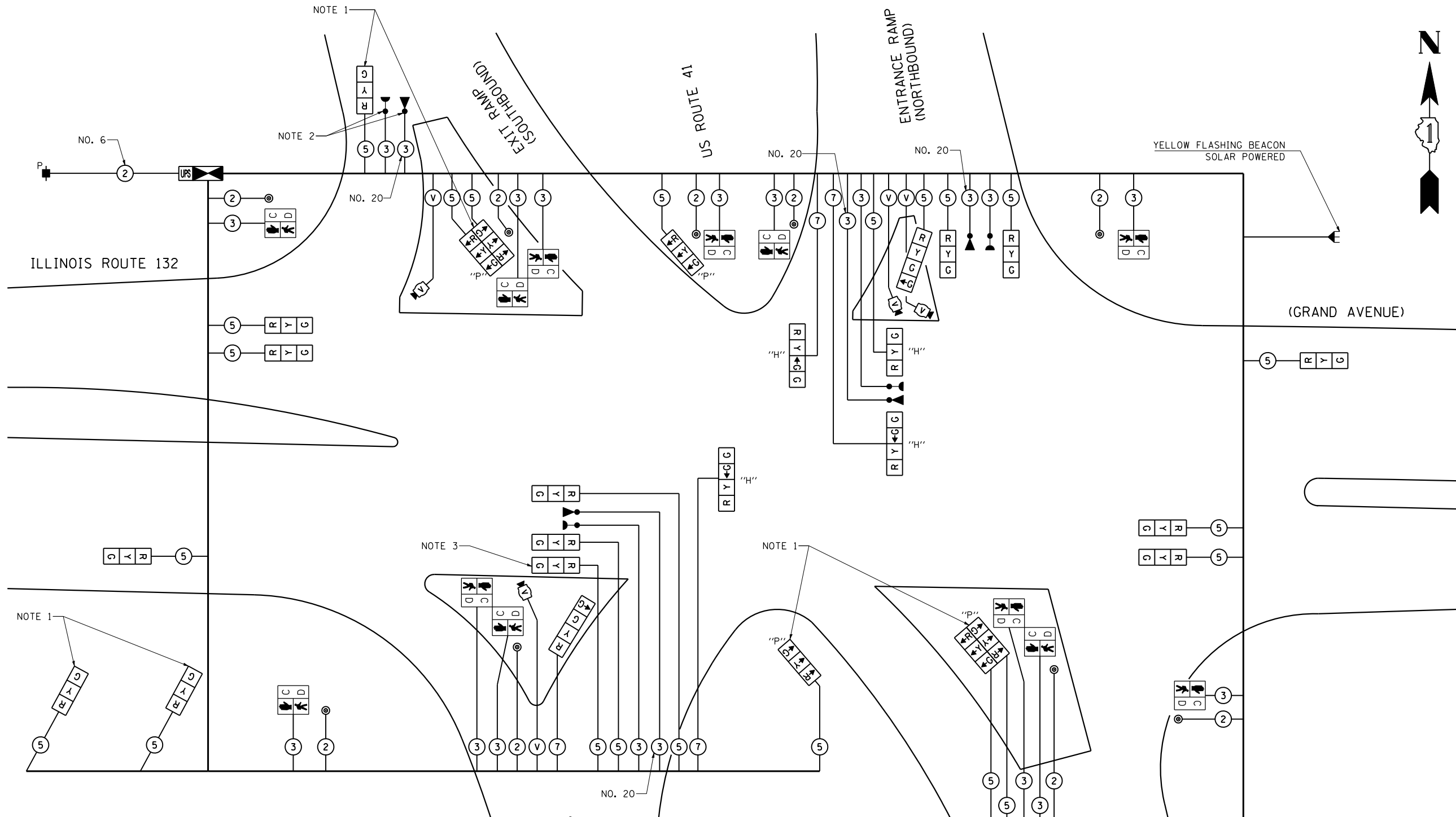
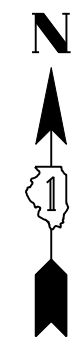
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
 ILLINOIS ROUTE 132 AT US ROUTE 41 RAMP
 STAGE 4**

SCALE: 1"=20' SHEET NO. 16 OF 35 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N	LAKE	361	151
CONTRACT NO. 60K80			TS 6550	

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



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	WATTAGE INCAND.	OPERATION LED		
SIGNAL (RED)	27	17	0.50		229.5
(YELLOW)	27	25	0.25		168.75
(GREEN)	32	15	0.25		120
ARROW		12	0.10		
PED. SIGNAL	12	25	1.00		300
CONTROLLER	1	100	1.00		100
ILLUM. SIGN		25	0.05		
VIDEO SYSTEM	1	150	1.00		150
FLASHER			0.50		
ENERGY COSTS TO:				TOTAL =	1068.25
ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096					
ENERGY SUPPLY CONTACT: KIM KANGAS					
PHONE: (847) 816-5497					
COMPANY: COMMONWEALTH EDISON					

LEGEND

- HORIZONTAL MOUNT SIGNAL HEAD
- "H" "H"
- YELLOW FLASHING BEACON

NOTE 1: THE THREE SECTION SIGNAL HEADS WITH ALL CIRCULAR INDICATION AND THE THREE SECTION SIGNAL HEADS WITH ALL LEFT ARROW INDICATIONS FOR THE SOUTHBOUND EXIT RAMP SHALL BE DISCONNECTED AND BAGGED DURING STAGE 2C CONSTRUCTION. THEY WILL BE UNBAGGED AND CONNECTED TO MAKE OPERATIONAL DURING THE SUBSEQUENT CONSTRUCTION STAGES AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER.

NOTE 2: THE EVP EQUIPMENTS FOR THE SOUTHBOUND DIRECTION OF TRAFFIC SHALL BE DISABLED FOR CONSTRUCTION STAGE 2C.

**TEMPORARY CABLE PLAN
FOR STAGE 2A, 3, AND 4
(NOT TO SCALE)**

NOTE 3: THE 3-SECTION SIGNAL HEAD MOUNTED ON THE FAR-SIDE SPAN WIRE FOR EASTBOUND DIRECTION OF TRAFFIC IS NEEDED DURING CONSTRUCTION STAGE 4. IN ALL OTHER STAGES THIS 3-SECTION SIGNAL HEAD SHALL BE DISCONNECTED AND BAGGED.

NOTE 4: SOME OF THE SPAN WIRE MOUNTED SIGNAL HEADS AND PEDESTRIAN SIGNALS INCLUDING PUSH-BUTTONS WILL BE PLACED ON A POST IN CONCRETE BARREL IN DIFFERENT CONSTRUCTION STAGES AS NEEDED AND AS DIRECTED BY THE ENGINEER.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN
ILLINOIS ROUTE 132 AT US ROUTE 41 RAMPS
STAGE 2A, STAGE 3, AND STAGE 4**

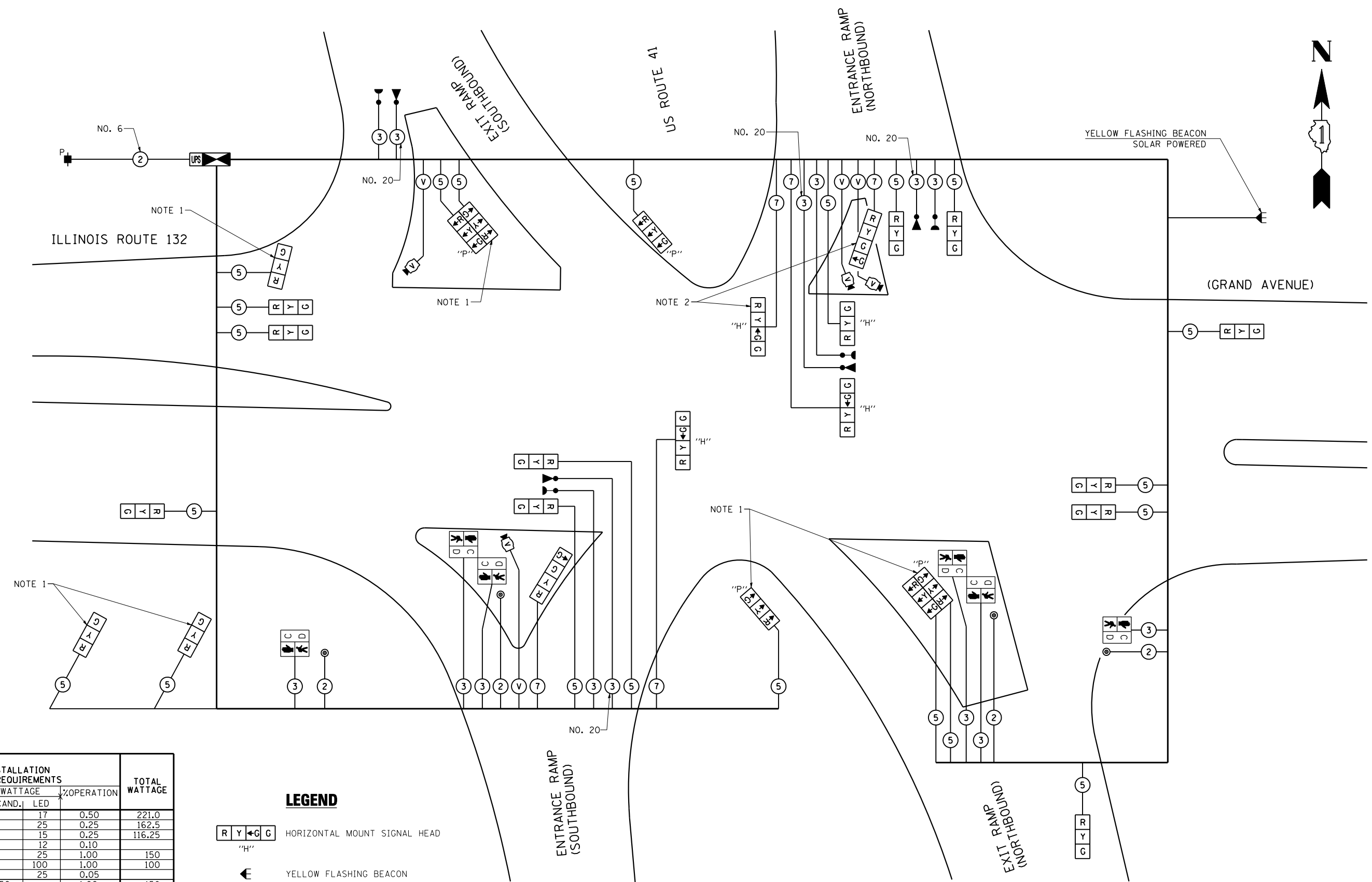
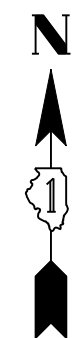
SCALE: N.T.S. SHEET NO. 17 OF 35 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N	LAKE	361	152
CONTRACT NO. 60K80				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TS 6550



USER NAME = #USER#	DESIGNED - PKG	REVISED -
	DRAWN - EA, EB	REVISED -
PLOT SCALE = #SCALE#	CHECKED - PKG	REVISED -
PLOT DATE = #DATE#	DATE - 1/22/2016	REVISED -



**TEMPORARY CABLE PLAN
FOR STAGE 2B AND STAGE 2C**

(NOT TO SCALE)

NOTE 1: THE THREE SECTION SIGNAL HEADS WITH ALL CIRCULAR INDICATION AND THE THREE SECTION SIGNAL HEADS WITH ALL LEFT ARROW INDICATIONS FOR THE SOUTHBOUND EXIT RAMP SHALL BE DISCONNECTED AND BAGGED DURING STAGE 2C CONSTRUCTION. THEY WILL BE UNBAGGED AND CONNECTED TO MAKE OPERATIONAL DURING THE SUBSEQUENT CONSTRUCTION STAGES AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER.

NOTE 2: THE GREEN LEFT ARROW INDICATION SECTION IN THE FOUR SECTION SIGNAL HEAD FOR THE EASTBOUND DIRECTION OF TRAFFIC SHALL BE DISCONNECTED AND BAGGED DURING STAGE 2B CONSTRUCTION. THEY WILL BE UNBAGGED AND CONNECTED TO MAKE THEM OPERATIONAL DURING THE SUBSEQUENT CONSTRUCTION STAGES AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	WATTAGE INCAND.	LED	%OPERATION	
SIGNAL (RED)	26		17	0.50	221.0
(YELLOW)	26		25	0.25	162.5
(GREEN)	31		15	0.25	116.25
ARROW			12	0.10	
PED. SIGNAL	6		25	1.00	150
CONTROLLER	1		100	1.00	100
ILLUM. SIGN			25	0.05	
VIDEO SYSTEM	1	150		1.00	150
FLASHER				0.50	
ENERGY COSTS TO:					TOTAL = 899.75
ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096					
ENERGY SUPPLY CONTACT: KIM KANGAS PHONE: (847) 816-5497 COMPANY: COMMONWEALTH EDISON					

LEGEND

R Y G G HORIZONTAL MOUNT SIGNAL HEAD

"H" "H"

YELLOW FLASHING BEACON

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN
ILLINOIS ROUTE 132 AT US ROUTE 41 RAMPS
STAGE 2B AND STAGE 2C**

SCALE: N.T.S. SHEET NO. 18 OF 35 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N	LAKE	361	153
CONTRACT NO. 60K80				
FED. ROAD DIST. NO. [] ILLINOIS FED. AID PROJECT				

TS 6550

FILE NAME =
\$FILEL\$



USER NAME = \$USER\$	DESIGNED - PKG	REVISED -
	DRAWN - EA, EB	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - PKG	REVISED -
PLOT DATE = \$DATE\$	DATE - 1/22/2016	REVISED -

TEMPORARY SEQUENCE OF OPERATION FOR CONSTRUCTION STAGE 2A, STAGE 3, AND STAGE 4

MOVEMENT	1					2								3								4					F L A S H						
	1	2	3A	3B	4A	4B	4C	4D	5	6	7A	7B	8A	8B	8C	8D	9	10	11A	11B	11C	11D	12A	12B	13	14A		14B	14C	14D	15A	15B	
PHASE	1					2								3								4											
INTERVAL	1	2	3A	3B	4A	4B	4C	4D	5	6	7A	7B	8A	8B	8C	8D	9	10	11A	11B	11C	11D	12A	12B	13	14A	14B	14C	14D	15A	15B		
CHANGE TO			2		3 OR 4					1			3 OR 4						1 OR 2			4				1 OR 2				3			
ILLINOIS ROUTE 132 (WEST OF BRIDGE) NEAR AND FAR SIDE SPAN WIRE MOUNTED SIGNALS	E/B	G	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		
ILLINOIS ROUTE 132 (EAST OF BRIDGE) FAR SIDE SPAN MOUNTED SIGNALS	E/B	G	G	G	G	G	Y	R	G	G	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		
ILLINOIS ROUTE 132 (EAST OF BRIDGE) NEAR SIDE SPAN AND NORTHEAST ISLAND POLE (OR ON POST IN BARREL) MOUNTED SIGNALS	E/B	G	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		
ILLINOIS ROUTE 132 (EAST OF BRIDGE) NEAR SIDE AND FAR RIGHT SPAN WIRE MOUNTED SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R	R	Y	R	R	R	R	R	R	R	R		
ILLINOIS ROUTE 132 (WEST OF BRIDGE) FAR SIDE SPAN WIRE MOUNTED SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	Y	R	G	G	G	G	G	Y	R	G	G	R	
ILLINOIS ROUTE 132 (EAST OF BRIDGE) FAR LEFT AND WEST OF BRIDGE SPAN WIRE AND SOUTHWEST ISLAND POLE MOUNTED SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R	R	Y	R	R	R	R	R	R	R	R		
NORTHBOUND EXIT RAMP NEAR SIDE AND FAR SIDE SPAN WIRE MOUNTED SIGNALS WITH CIRCULAR INDICATIONS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	Y	R	R
NORTHBOUND EXIT RAMP NEAR SIDE AND FAR LEFT SIGNALS WITH ALL LEFT ARROW INDICATIONS	N/B	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R		
SOUTHBOUND EXIT RAMP NEAR SIDE AND FAR RIGHT SIGNALS WITH CIRCULAR INDICATIONS	S/B	R	R	R	R	R	R	R	G	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
SOUTHBOUND EXIT RAMP NEAR SIDE AND FAR LEFT SIGNALS WITH ALL LEFT ARROW INDICATIONS	S/B	←R	←R	←R	←R	←R	←R	←R	←G	←G	←Y	←R	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R		
PEDESTRIAN SIGNALS CROSSING EXIT RAMP FROM NORTHBOUND US ROUTE 41 AND WESTBOUND ILLINOIS ROUTE 132 TO SOUTHBOUND US ROUTE 41 ENTRANCE RAMP ON SOUTH SIDE OF ILLINOIS ROUTE 132		*P	**FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H		
PEDESTRIAN SIGNALS CROSSING EASTBOUND ILLINOIS ROUTE 132 TO SOUTHBOUND US ROUTE 41 ENTRANCE RAMP ON SOUTH SIDE OF ILLINOIS ROUTE 132		H	H	H	H	H	H	H	H	*P	**FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H		
PEDESTRIAN SIGNALS CROSSING ENTRANCE RAMP TO NORTHBOUND US ROUTE 41 AND EXIT RAMP FROM SOUTHBOUND US ROUTE 41 ON NORTH SIDE OF ILLINOIS ROUTE 132		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	*P	**FH	H	H	H	H	H	H	H	H	H	H	H	H	H		

- P = ILLUMINATED PERSON = WALK
 FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK
 H = ILLUMINATED SOLID HAND = DON'T WALK
- TO APPEAR ONLY UPON PUSHBUTTON ACTUATION.
 - FLASHING " [Symbol] " IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

∅ THIS " [Symbol] " OR FLASHING " [Symbol] " INTERVAL MAY FINISH TIMING IN THE BI-DIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE " [Symbol] " OR FLASHING " [Symbol] " INTERVALS. " [Symbol] " AND FLASHING " [Symbol] " TIMINGS TO BE SET ONLY ON THE PHASES WHERE " [Symbol] " AND FLASHING " [Symbol] " ARE INDICATED IN THE SEQUENCE OF OPERATION.

**TEMPORARY SEQUENCE OF OPERATION
FOR CONSTRUCTION STAGE 2B (WHEN NORTHBOUND ENTRANCE RAMP TO US 41 IS CLOSED)**


MOVEMENT	1				2								3								4						F L A S H				
	1	2	3A	3B	4A	4B	4C	4D	5	6	7A	7B	8A	8B	8C	8D	9	10A	10B	10C	10D	11A	11B	12	13A	13B		13C	13D	14A	14B
PHASE	1				2								3								4										
INTERVAL	1	2	3A	3B	4A	4B	4C	4D	5	6	7A	7B	8A	8B	8C	8D	9	10A	10B	10C	10D	11A	11B	12	13A	13B	13C	13D	14A	14B	
CHANGE TO	/	/	2		3 OR 4				/	/	1		3 OR 4				/	1 OR 2				4		/	1 OR 2				3		
ILLINOIS ROUTE 132 (WEST OF BRIDGE) NEAR AND FAR SIDE SPAN WIRE MOUNTED SIGNALS	E/B	G	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
ILLINOIS ROUTE 132 (EAST OF BRIDGE) FAR SIDE SPAN MOUNTED SIGNALS	E/B	G	G	G	G	G	Y	R	G	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
ILLINOIS ROUTE 132 (EAST OF BRIDGE) NEAR SIDE SPAN AND NORTHEAST ISLAND POLE MOUNTED SIGNALS (WITH GREEN LEFT ARROW SECTION BAGGED)	E/B	G	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
ILLINOIS ROUTE 132 (EAST OF BRIDGE) NEAR SIDE AND FAR RIGHT SPAN WIRE MOUNTED SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	Y	R	R	R	R	R	R	R	R	
ILLINOIS ROUTE 132 (WEST OF BRIDGE) FAR SIDE SPAN WIRE MOUNTED SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	G	G	G	G	G	Y	R	G	G	
ILLINOIS ROUTE 132 (EAST OF BRIDGE) FAR LEFT AND WEST OF BRIDGE SPAN WIRE AND SOUTHWEST ISLAND POLE MOUNTED SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	Y	R	R	R	R	R	R	R	R	
NORTHBOUND EXIT RAMP NEAR SIDE AND FAR SIDE SPAN WIRE MOUNTED SIGNALS WITH CIRCULAR INDICATIONS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	Y	R
NORTHBOUND EXIT RAMP NEAR SIDE AND FAR LEFT SIGNALS WITH ALL LEFT ARROW INDICATIONS	N/B	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←G	←Y	←R	←R	←R	←Y	←R	←R
SOUTHBOUND EXIT RAMP NEAR SIDE AND FAR RIGHT SIGNALS WITH CIRCULAR INDICATIONS	S/B	R	R	R	R	R	R	R	G	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
SOUTHBOUND EXIT RAMP NEAR SIDE AND FAR LEFT SIGNALS WITH ALL LEFT ARROW INDICATIONS	S/B	←R	←R	←R	←R	←R	←R	←R	←G	←G	←Y	←R	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	
PEDESTRIAN SIGNALS CROSSING EXIT RAMP FROM NORTHBOUND US ROUTE 41 AND WESTBOUND ILLINOIS ROUTE 132 TO SOUTHBOUND US ROUTE 41 ENTRANCE RAMP ON SOUTH SIDE OF ILLINOIS ROUTE 132		*P	**FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
PEDESTRIAN SIGNALS CROSSING EASTBOUND ILLINOIS ROUTE 132 TO SOUTHBOUND US ROUTE 41 ENTRANCE RAMP ON SOUTH SIDE OF ILLINOIS ROUTE 132		H	H	H	H	H	H	H	*P	**FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	

P = ILLUMINATED PERSON = WALK
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- TO APPEAR ONLY UPON PUSHBUTTON ACTUATION.
- ** FLASHING " [] " IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

∅ THIS " [] " OR FLASHING " [] " INTERVAL MAY FINISH TIMING IN THE BI-DIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE " [] " OR FLASHING " [] " INTERVALS. " [] " AND FLASHING " [] " TIMINGS TO BE SET ONLY ON THE PHASES WHERE " [] " AND FLASHING " [] " ARE INDICATED IN THE SEQUENCE OF OPERATION.

FILE NAME =
 #FILE#

 GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 6035 N. NORTHWEST HIGHWAY SUITE 200 CHICAGO, ILLINOIS 60631 TEL: (773) 774-590	USER NAME = #USER#	DESIGNED - PKG	REVISED -	
	DRAWN - EA, EB	REVISIONS -		
	PLOT SCALE = #SCALE#	CHECKED - PKG	REVISED -	
	PLOT DATE = #DATE#	DATE - 1/22/2016	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY SEQUENCE OF OPERATION
ILLINOIS ROUTE 132 AT US ROUTE 41 RAMPS**

SCALE: N.T.S. SHEET NO. 20 OF 35 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N	LAKE	361	155
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60K80	

TS 6550

**TEMPORARY SEQUENCE OF OPERATION
FOR CONSTRUCTION STAGE 2C (WHEN SOUTHBOUND EXIT RAMP FROM US 41 IS CLOSED)**

MOVEMENT					F L A S H																			
PHASE		1						2						3										
INTERVAL		1	2	3A		3B	3C	3D	4	5A	5B	5C	5D	6A	6B	7	8	9A	9B	9C	9D	10A	10B	
CHANGE TO		/	/	2 OR 3				/	1			3			/	/	1				2			
ILLINOIS ROUTE 132 (WEST OF BRIDGE) NEAR AND FAR SIDE SPAN WIRE MOUNTED SIGNALS	E/B	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
ILLINOIS ROUTE 132 (EAST OF BRIDGE) FAR SIDE SPAN MOUNTED SIGNALS	E/B	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
ILLINOIS ROUTE 132 (EAST OF BRIDGE) NEAR SIDE SPAN AND NORTHEAST ISLAND POLE MOUNTED SIGNALS	E/B	G ←G	G ←G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
ILLINOIS ROUTE 132 (EAST OF BRIDGE) NEAR SIDE AND FAR RIGHT SPAN WIRE MOUNTED SIGNALS	W/B	R	R	R	R	R	R	G	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	
ILLINOIS ROUTE 132 (WEST OF BRIDGE) FAR SIDE SPAN WIRE MOUNTED SIGNALS	W/B	R	R	R	R	R	R	G	G	G	Y	R	G	G	G	G	G	G	Y	R	G	G	R	
ILLINOIS ROUTE 132 (EAST OF BRIDGE) FAR LEFT AND WEST OF BRIDGE SPAN WIRE AND SOUTHWEST ISLAND POLE MOUNTED SIGNALS	W/B	R	R	R	R	R	R	G ←G	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	
NORTHBOUND EXIT RAMP NEAR SIDE AND FAR SIDE SPAN WIRE MOUNTED SIGNALS WITH CIRCULAR INDICATIONS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R	R	Y	R	R
NORTHBOUND EXIT RAMP NEAR SIDE AND FAR LEFT SIGNALS WITH ALL LEFT ARROW INDICATIONS	N/B	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←G	←G	←Y	←R	←R	←R	←Y	←R	←R
PEDESTRIAN SIGNALS CROSSING EXIT RAMP FROM NORTHBOUND US ROUTE 41 AND ENTRANCE RAMP TO SOUTHBOUND US 41 ON SOUTH SIDE OF ILLINOIS ROUTE 132		*P	**FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
PEDESTRIAN SIGNALS CROSSING EASTBOUND ILLINOIS ROUTE 132 TO SOUTHBOUND US ROUTE 41 ENTRANCE RAMP ON SOUTH SIDE OF ILLINOIS ROUTE 132		H	H	H	H	H	H	H	H	H	H	H	H	H	H	*P	**FH	H	H	H	H	H	H	

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

- TO APPEAR ONLY UPON PUSHBUTTON ACTUATION.
- ** FLASHING " [Symbol] " IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

∅ THIS " [Symbol] " OR FLASHING " [Symbol] " INTERVAL MAY FINISH TIMING IN THE BI-DIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE " [Symbol] " OR FLASHING " [Symbol] " INTERVALS. " [Symbol] " AND FLASHING " [Symbol] " TIMINGS TO BE SET ONLY ON THE PHASES WHERE " [Symbol] " AND FLASHING " [Symbol] " ARE INDICATED IN THE SEQUENCE OF OPERATION.

FILE NAME =
#FILE#



USER NAME = \$USER*	DESIGNED - PKG	REVISED -
PLOT SCALE = \$SCALE*	DRAWN - EA, EB	REVISED -
PLOT DATE = \$DATE*	CHECKED - PKG	REVISED -
	DATE - 1/22/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY SEQUENCE OF OPERATION ILLINOIS ROUTE 132 AT US ROUTE 41 RAMPS			
SCALE: N.T.S.	SHEET NO. 21 OF 35 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N	LAKE	361	156
CONTRACT NO. 60K80				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

TS 6550

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION FOR CONSTRUCTION STAGE 2A, STAGE 3, AND STAGE 4

PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 5	PREEMPTOR NUMBER 6
-----------------------	-----------------------	-----------------------	-----------------------

	1	1			1				5			5	5					9				9	9			13				13	13	2	3	4	5	CLEAR TO NORMAL SEQUENCE				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z	1AA	1BB	1CC	1DD	1EE	1FF	1GG	1HH	1JJ	1KK						
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	1D	3	1F	1G	1H	1J	⁴ OR ⁵	1L	1M	2	3	1Q	1R	1S	1T	⁴ OR ⁵	1V	1W	1X	1Y	² OR ³	4	1BB	1CC	5	1EE	1FF	1GG	² OR ³	1JJ	4	5						
ILLINOIS ROUTE 132 (WEST OF BRIDGE) NEAR AND FAR SIDE SPAN WIRE MOUNTED SIGNALS	E/B	G	G	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	◇		
ILLINOIS ROUTE 132 (EAST OF BRIDGE) FAR SIDE SPAN MOUNTED SIGNALS	E/B	G	G	G	G	G	G	Y	R	G	G	G	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	◇		
ILLINOIS ROUTE 132 (EAST OF BRIDGE) NEAR SIDE SPAN AND NORTHEAST ISLAND POLE MOUNTED SIGNALS	E/B	G ←G	G ←G	Y	R	G ←G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	◇		
ILLINOIS ROUTE 132 (EAST OF BRIDGE) NEAR SIDE AND FAR RIGHT SPAN WIRE MOUNTED SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	◇		
ILLINOIS ROUTE 132 (WEST OF BRIDGE) FAR SIDE SPAN WIRE MOUNTED SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	G	G	G	G	G	Y	R	G	G	G	G	R	R	G	G	◇
ILLINOIS ROUTE 132 (EAST OF BRIDGE) FAR LEFT SPAN WIRE AND SOUTHWEST ISLAND POLE MOUNTED SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	◇	
NORTHBOUND EXIT RAMP NEAR SIDE AND FAR SIDE SPAN WIRE MOUNTED SIGNALS WITH CIRCULAR INDICATIONS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	◇	
NORTHBOUND EXIT RAMP NEAR SIDE AND FAR LEFT SIGNALS WITH ALL LEFT ARROW INDICATIONS	N/B	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	◇	
SOUTHBOUND EXIT RAMP NEAR SIDE AND FAR RIGHT SIGNALS WITH CIRCULAR INDICATIONS	S/B	R	R	R	R	R	R	R	R	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	◇	
SOUTHBOUND EXIT RAMP NEAR SIDE AND FAR LEFT SIGNALS WITH ALL LEFT ARROW INDICATIONS	S/B	←R	←R	←R	←R	←R	←R	←R	←R	←G	←Y	←R	←G	←G	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	◇	
PEDESTRIAN SIGNALS CROSSING EXIT RAMP FROM NORTHBOUND US ROUTE 41 AND TO SOUTHBOUND US ROUTE 41 ENTRANCE RAMP FROM WESTBOUND ILLINOIS ROUTE 132, ON SOUTH SIDE OF ILLINOIS ROUTE 132	FH	FH	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◇	
PEDESTRIAN SIGNALS CROSSING EASTBOUND ILLINOIS ROUTE 132 TO SOUTHBOUND US ROUTE 41 ENTRANCE RAMP ON SOUTH SIDE OF ILLINOIS ROUTE 132	H	H	H	H	H	H	H	H	H	FH	H	H	FH	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◇	
PEDESTRIAN SIGNALS CROSSING ENTRANCE RAMP TO NORTHBOUND US ROUTE 41 AND EXIT RAMP FROM SOUTHBOUND US ROUTE 41 ON NORTH SIDE OF ILLINOIS ROUTE 132	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	H	H	FH	FH	H	H	H	H	H	H	H	H	H	H	H	H	◇	

◇ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2, 3, 4 OR 5 IS TERMINATED.

FILE NAME =
#FILE#



USER NAME = #USER#	DESIGNED - PKG	REVISED -
DRAWN - EA, EB	REVISOR -	
PLOT SCALE = #SCALE#	CHECKED - PKG	REVISED -
PLOT DATE = #DATE#	DATE - 1/22/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION ILLINOIS ROUTE 132 AT US ROUTE 41 RAMPS			
SCALE: N.T.S.	SHEET NO. 22 OF 35 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N	LAKE	361	157
CONTRACT NO. 60K80				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

TS 6550

**TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION
FOR CONSTRUCTION STAGE 2B (WHEN NORTHBOUND ENTRANCE RAMP TO US 41 IS CLOSED)**

	1	1			1				5			5	5					9			9	9		12				12	12	PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 5	PREEMPTOR NUMBER 6						
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z	1AA	1BB	1CC	1DD	1EE	1FF	1GG	1HH	2	3	4	5	CLEAR TO NORMAL SEQUENCE	
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		2	1C	1D	3	1F	1G	1H	1J	4 OR 5	1L	1M	2	3	1Q	1R	1S	1T	4 OR 5	1V	1W	1X	2 OR 3	4	1AA	5	1CC	1DD	1EE	2 OR 3	1GG	4	5						
ILLINOIS ROUTE 132 (WEST OF BRIDGE) NEAR AND FAR SIDE SPAN WIRE MOUNTED SIGNALS	E/B	G	G	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	◇	
ILLINOIS ROUTE 132 (EAST OF BRIDGE) FAR SIDE SPAN MOUNTED SIGNALS	E/B	G	G	G	G	G	G	Y	R	G	G	G	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	◇	
ILLINOIS ROUTE 132 (EAST OF BRIDGE) NEAR SIDE SPAN AND NORTHEAST ISLAND POLE MOUNTED SIGNALS (WITH GREEN LEFT ARROW SECTION BAGGED)	E/B	G	G	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	◇	
ILLINOIS ROUTE 132 (EAST OF BRIDGE) NEAR SIDE AND FAR RIGHT SPAN WIRE MOUNTED SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	G	◇	
ILLINOIS ROUTE 132 (WEST OF BRIDGE) FAR SIDE SPAN WIRE MOUNTED SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	G	G	G	G	Y	R	G	G	G	R	R	G	G	◇		
ILLINOIS ROUTE 132 (EAST OF BRIDGE) FAR LEFT SPAN WIRE AND SOUTHWEST ISLAND POLE MOUNTED SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	G	◇		
NORTHBOUND EXIT RAMP NEAR SIDE AND FAR SIDE SPAN WIRE MOUNTED SIGNALS WITH CIRCULAR INDICATIONS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	Y	R	G	R	R	R	G	◇	
NORTHBOUND EXIT RAMP NEAR SIDE AND FAR LEFT SIGNALS WITH ALL LEFT ARROW INDICATIONS	N/B	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←G	◇	
SOUTHBOUND EXIT RAMP NEAR SIDE AND FAR RIGHT SIGNALS WITH CIRCULAR INDICATIONS	S/B	R	R	R	R	R	R	R	R	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R	◇
SOUTHBOUND EXIT RAMP NEAR SIDE AND FAR LEFT SIGNALS WITH ALL LEFT ARROW INDICATIONS	S/B	←R	←R	←R	←R	←R	←R	←R	←R	←R	←G	←Y	←R	←G	←G	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←G	←R	←R	◇
PEDESTRIAN SIGNALS CROSSING EXIT RAMP FROM NORTHBOUND US ROUTE 41 AND TO SOUTHBOUND US ROUTE 41 ENTRANCE RAMP FROM WESTBOUND ILLINOIS ROUTE 132, ON SOUTH SIDE OF ILLINOIS ROUTE 132		FH	FH	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◇
PEDESTRIAN SIGNALS CROSSING EASTBOUND ILLINOIS ROUTE 132 TO SOUTHBOUND US ROUTE 41 ENTRANCE RAMP ON SOUTH SIDE OF ILLINOIS ROUTE 132		H	H	H	H	H	H	H	H	FH	H	H	FH	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◇

◇ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2, 3, 4 OR 5 IS TERMINATED.

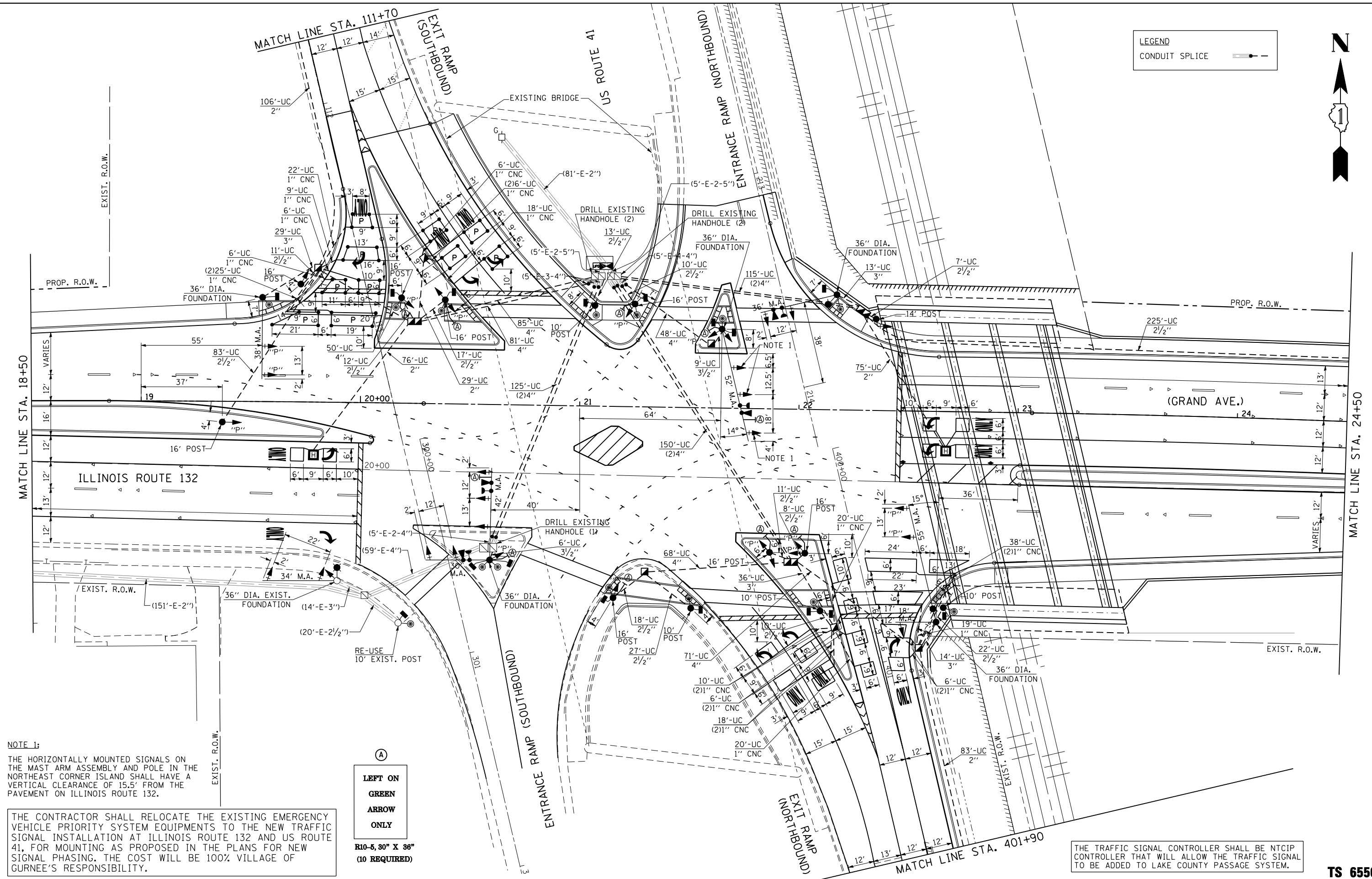
**TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION
FOR CONSTRUCTION STAGE 2C (WHEN SOUTHBOUND EXIT RAMP FROM US 41 IS CLOSED)**

																					PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 5	PREEMPTOR NUMBER 6	CLEAR TO NORMAL SEQUENCE		
	1	1					4					4	4				7				7	7				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	2	3	4	
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	1D	1E	1F	³ OR ⁴	1H	1J	1K	2	3	1N	4	1Q	1R	1S	1T	2	1V	1W	3	4				
ILLINOIS ROUTE 132 (WEST OF BRIDGE) NEAR AND FAR SIDE SPAN WIRE MOUNTED SIGNALS	E/B	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	◇
ILLINOIS ROUTE 132 (EAST OF BRIDGE) FAR SIDE SPAN MOUNTED SIGNALS	E/B	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	◇	
ILLINOIS ROUTE 132 (EAST OF BRIDGE) NEAR SIDE SPAN AND NORTHEAST ISLAND POLE MOUNTED SIGNALS	E/B	^G ←G	^G ←G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	◇	
ILLINOIS ROUTE 132 (EAST OF BRIDGE) NEAR SIDE AND FAR RIGHT SPAN WIRE MOUNTED SIGNALS	W/B	R	R	R	R	R	Y	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	◇	
ILLINOIS ROUTE 132 (WEST OF BRIDGE) FAR SIDE SPAN WIRE MOUNTED SIGNALS	W/B	R	R	R	R	R	G	G	Y	R	G	G	G	G	G	G	Y	R	G	G	G	G	R	G	◇	
ILLINOIS ROUTE 132 (EAST OF BRIDGE) FAR LEFT SPAN WIRE AND SOUTHWEST ISLAND POLE MOUNTED SIGNALS	W/B	R	R	R	R	R	Y	R	R	R	^G ←G	Y	R	R	R	R	R	R	R	R	R	R	R	◇		
NORTHBOUND EXIT RAMP NEAR SIDE AND FAR SIDE SPAN WIRE MOUNTED SIGNALS WITH CIRCULAR INDICATIONS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	G	Y	R	G	R	G	◇	
NORTHBOUND EXIT RAMP NEAR SIDE AND FAR LEFT SIGNALS WITH ALL LEFT ARROW INDICATIONS	N/B	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←G	←Y	←R	←R	←R	←R	←G	←Y	←R	←G	◇
PEDESTRIAN SIGNALS CROSSING EXIT RAMP FROM NORTHBOUND US ROUTE 41 AND TO SOUTHBOUND US ROUTE 41 ENTRANCE RAMP FROM WESTBOUND ILLINOIS ROUTE 132, ON SOUTH SIDE OF ILLINOIS ROUTE 132	FH	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◇	
PEDESTRIAN SIGNALS CROSSING EASTBOUND ILLINOIS ROUTE 132 TO SOUTHBOUND US ROUTE 41 ENTRANCE RAMP ON SOUTH SIDE OF ILLINOIS ROUTE 132	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	H	H	FH	H	H	FH	H	H	◇	

NOTE: EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBERS 3 AND 4 WHICH ARE CONNECTED TO PREEMPTOR NUMBERS 5 AND 6 RESPECTIVELY, SHALL REMAIN IN PLACE. PREEMPTOR NUMBER 4 SHALL NOT BE USED DURING THIS CONSTRUCTION STAGE AND SHALL BE LEFT OPEN.

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

LEGEND
 CONDUIT SPLICE



NOTE 1:
 THE HORIZONTALLY MOUNTED SIGNALS ON THE MAIST ARM ASSEMBLY AND POLE IN THE NORTHEAST CORNER ISLAND SHALL HAVE A VERTICAL CLEARANCE OF 15.5' FROM THE PAVEMENT ON ILLINOIS ROUTE 132.

THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM EQUIPMENTS TO THE NEW TRAFFIC SIGNAL INSTALLATION AT ILLINOIS ROUTE 132 AND US ROUTE 41, FOR MOUNTING AS PROPOSED IN THE PLANS FOR NEW SIGNAL PHASING. THE COST WILL BE 100% VILLAGE OF GURNEE'S RESPONSIBILITY.

(A)
LEFT ON GREEN ARROW ONLY
R10-5, 30" X 36"
(10 REQUIRED)

THE TRAFFIC SIGNAL CONTROLLER SHALL BE NTCIP CONTROLLER THAT WILL ALLOW THE TRAFFIC SIGNAL TO BE ADDED TO LAKE COUNTY PASSAGE SYSTEM.

FILE NAME =
 \$FILEL\$



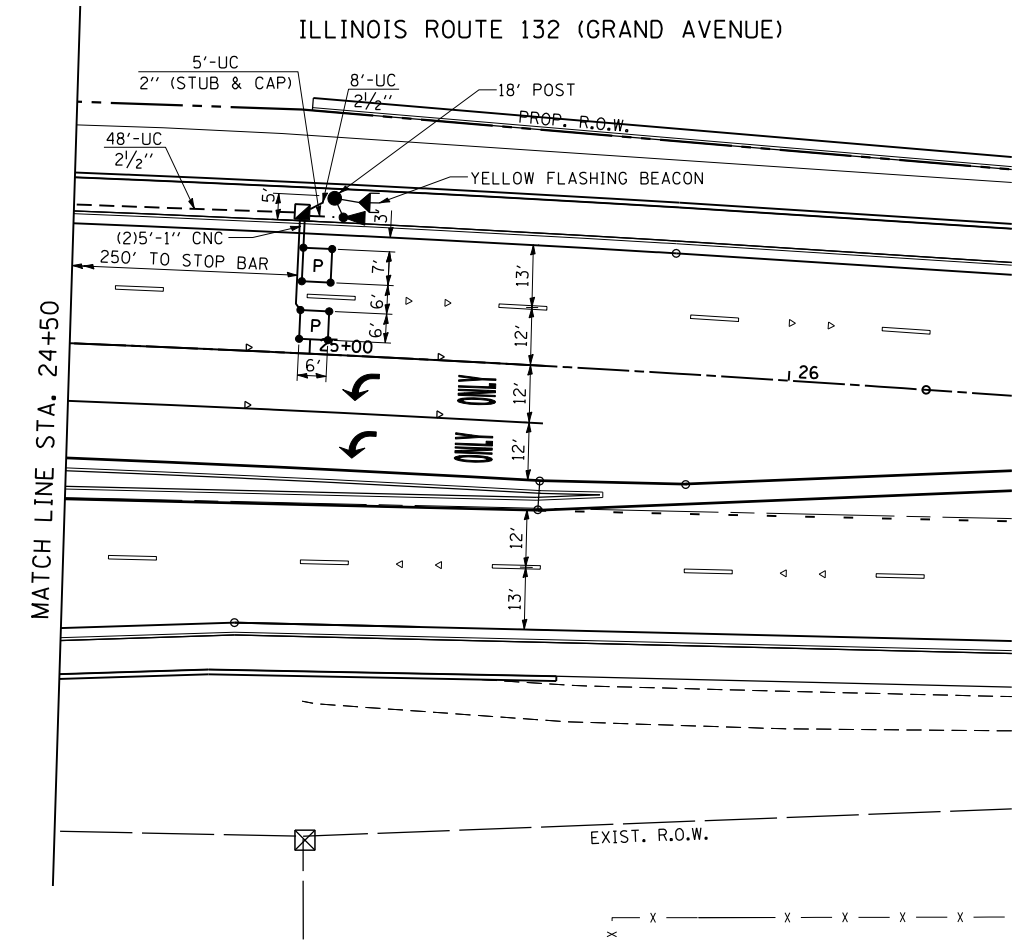
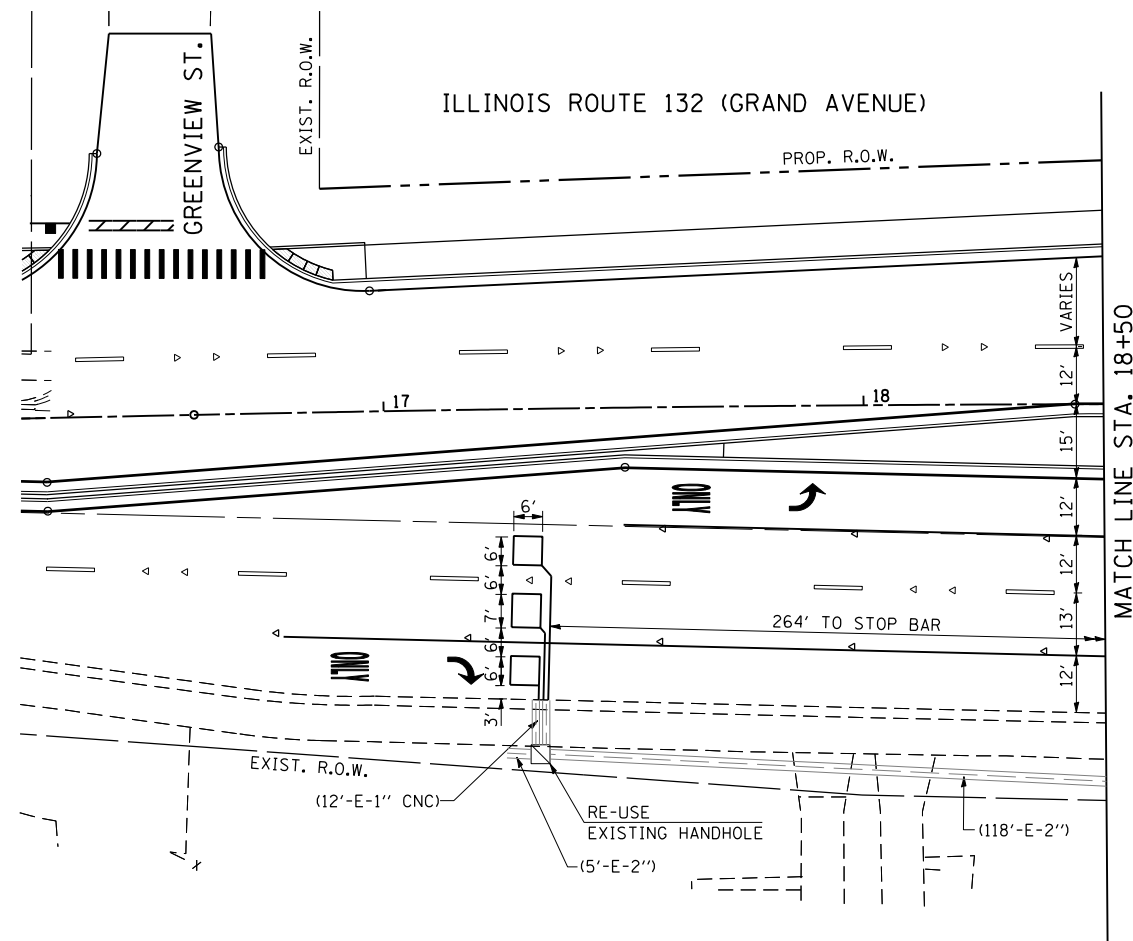
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	DATE - 1/22/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

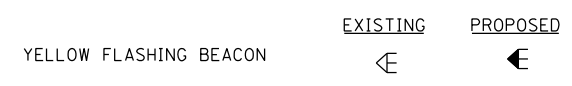
TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 132 AT US ROUTE 41 RAMP
(SHEET 1 OF 4)
 SCALE: 1"=20'
 SHEET NO. 25 OF 35 SHEETS
 STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N	LAKE	361	160
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60K80	

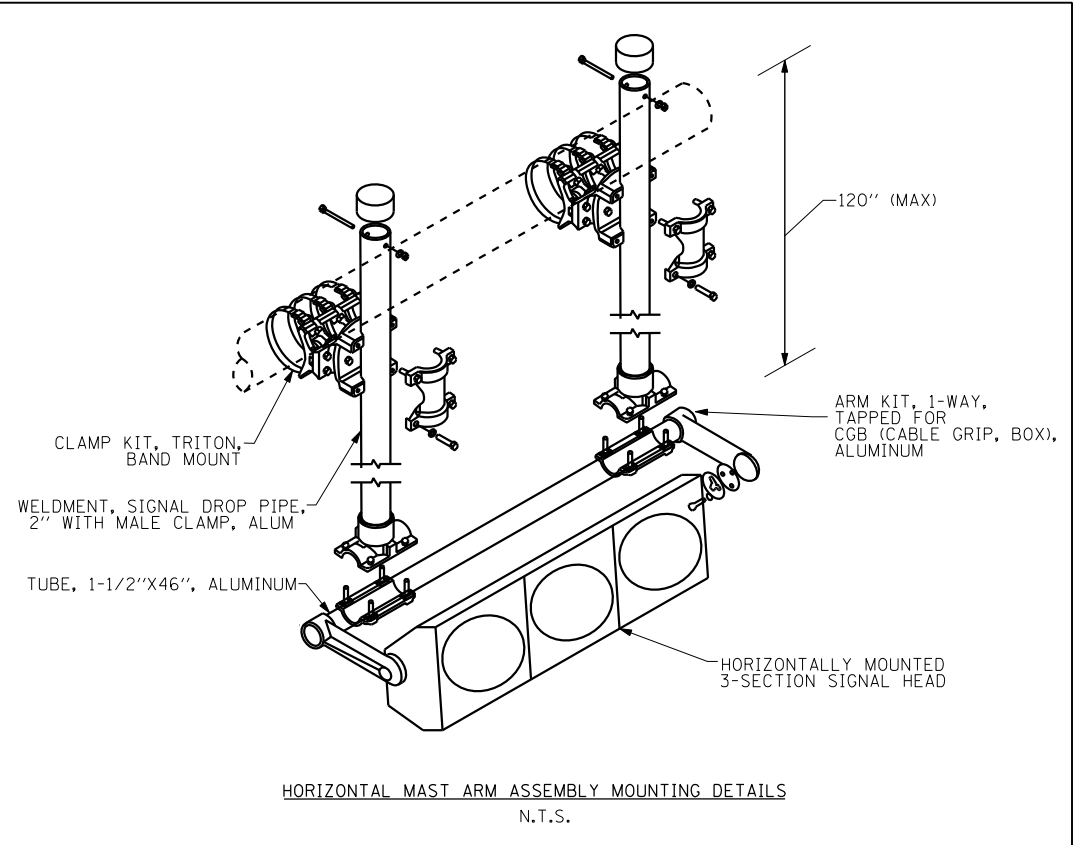
TS 6550



TRAFFIC SIGNAL PLAN LEGEND



NOTE 1: THE 5 FT. UNDERGROUND CONDUIT STUB AND CAP IS FOR FUTURE INTERCONNECT.



HORIZONTAL MAST ARM ASSEMBLY MOUNTING DETAILS
N.T.S.

FILE NAME =
\$FILEL\$



USER NAME = \$USER\$	DESIGNED - PKG	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - EA, EB	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 1/22/2016	REVISED -

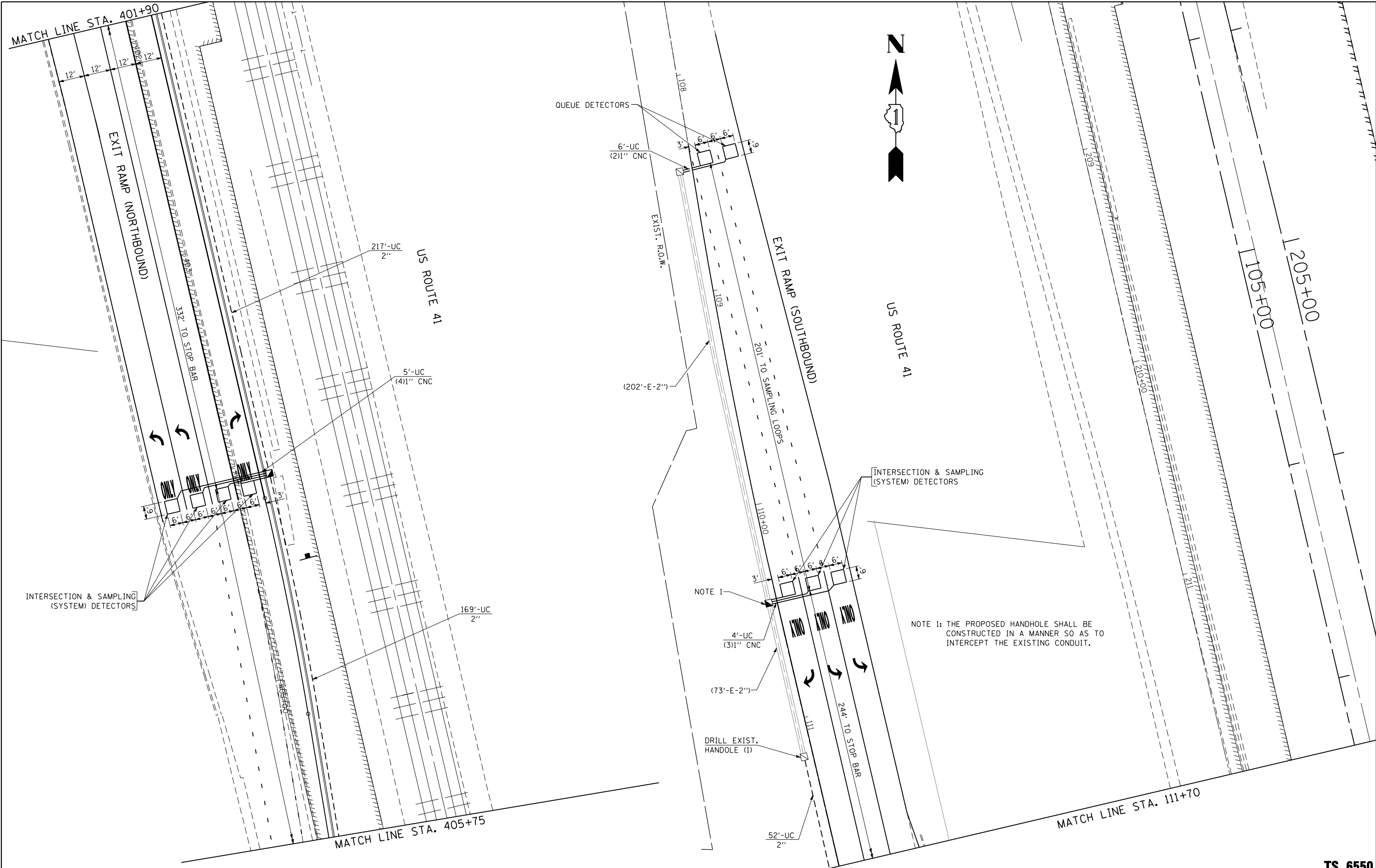
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 132 AT US ROUTE 41 RAMPS
(SHEET 2 OF 4)**

SCALE: 1"=20' SHEET NO. 26 OF 35 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N	LAKE	361	161
CONTRACT NO. 60K80				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

TS 6550



NOTE 1: THE PROPOSED HANDHOLE SHALL BE CONSTRUCTED IN A MANNER SO AS TO INTERCEPT THE EXISTING CONDUIT.

FILE NAME =
\$FILEL\$

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 300
CHICAGO, ILLINOIS 60630 TEL: (773) 774-590

USER NAME = \$USER\$	DESIGNED - PKG	REVISED -
	DRAWN - EA, EB	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - PKG	REVISED -
PLOT DATE = \$DATE\$	DATE - 1/22/2016	REVISED -

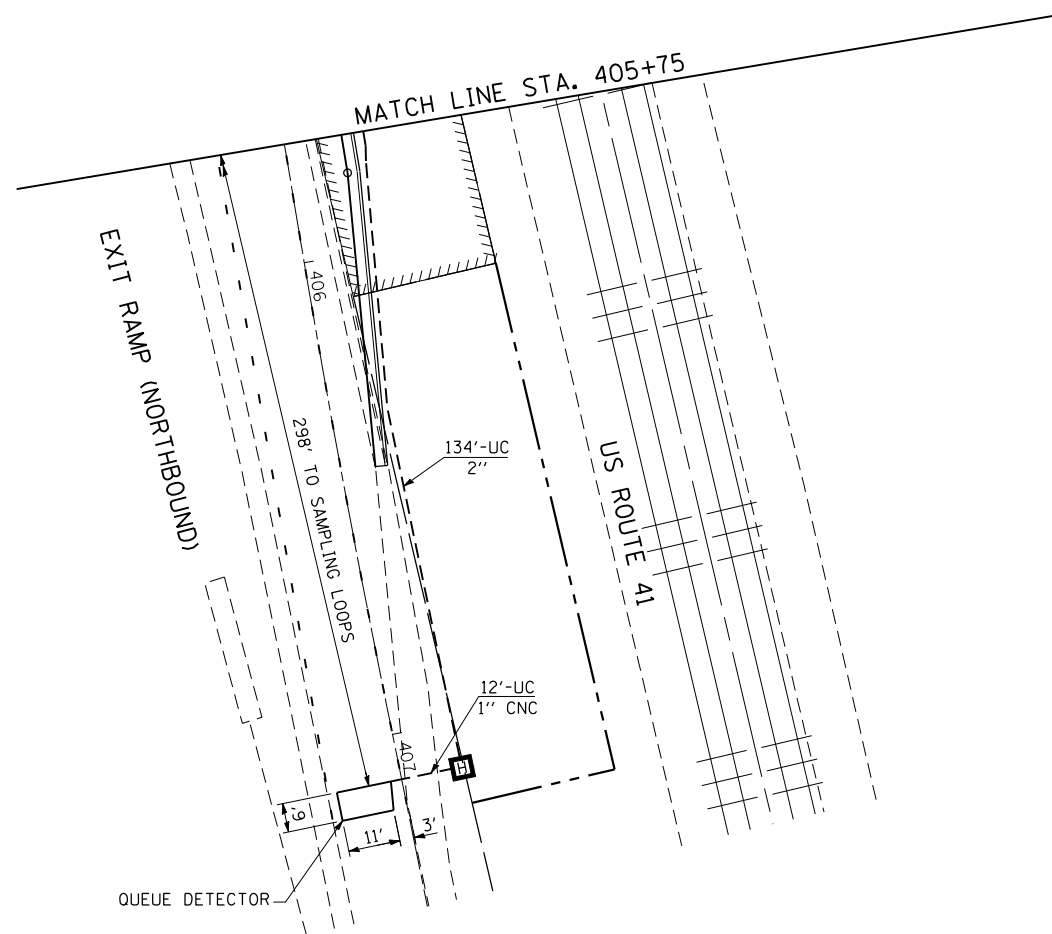
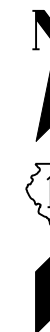
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 132 AT US ROUTE 41 RAMP
(SHEET 3 OF 4)**

SCALE: 1"=20' SHEET NO. 27 OF 35 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N	LAKE	361	162
CONTRACT NO. 60K80				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

TS 6550



TS 6550

GO GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 305
CHICAGO, ILLINOIS 60631 TEL: (773) 774-590

USER NAME = \$USER\$	DESIGNED - PKG	REVISED -
DRAWN - EA, EB	CHECKED - PKG	REVISED -
PLOT SCALE = \$SCALE\$	DATE - 1/22/2016	REVISED -
PLOT DATE = \$DATE\$		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 132 AT US ROUTE 41 RAMPS
(SHEET 4 OF 4)**

SCALE: 1"=20' SHEET NO. 28 OF 35 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N	LAKE	361	163
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60K80	

FILE NAME = \$FILEL\$

THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM EQUIPMENTS TO THE NEW TRAFFIC SIGNAL INSTALLATION AT ILLINOIS ROUTE 132 AND US ROUTE 41, FOR MOUNTING AS PROPOSED IN THE PLANS FOR NEW SIGNAL PHASING. THE COST WILL BE 100% VILLAGE OF GURNEE'S RESPONSIBILITY.

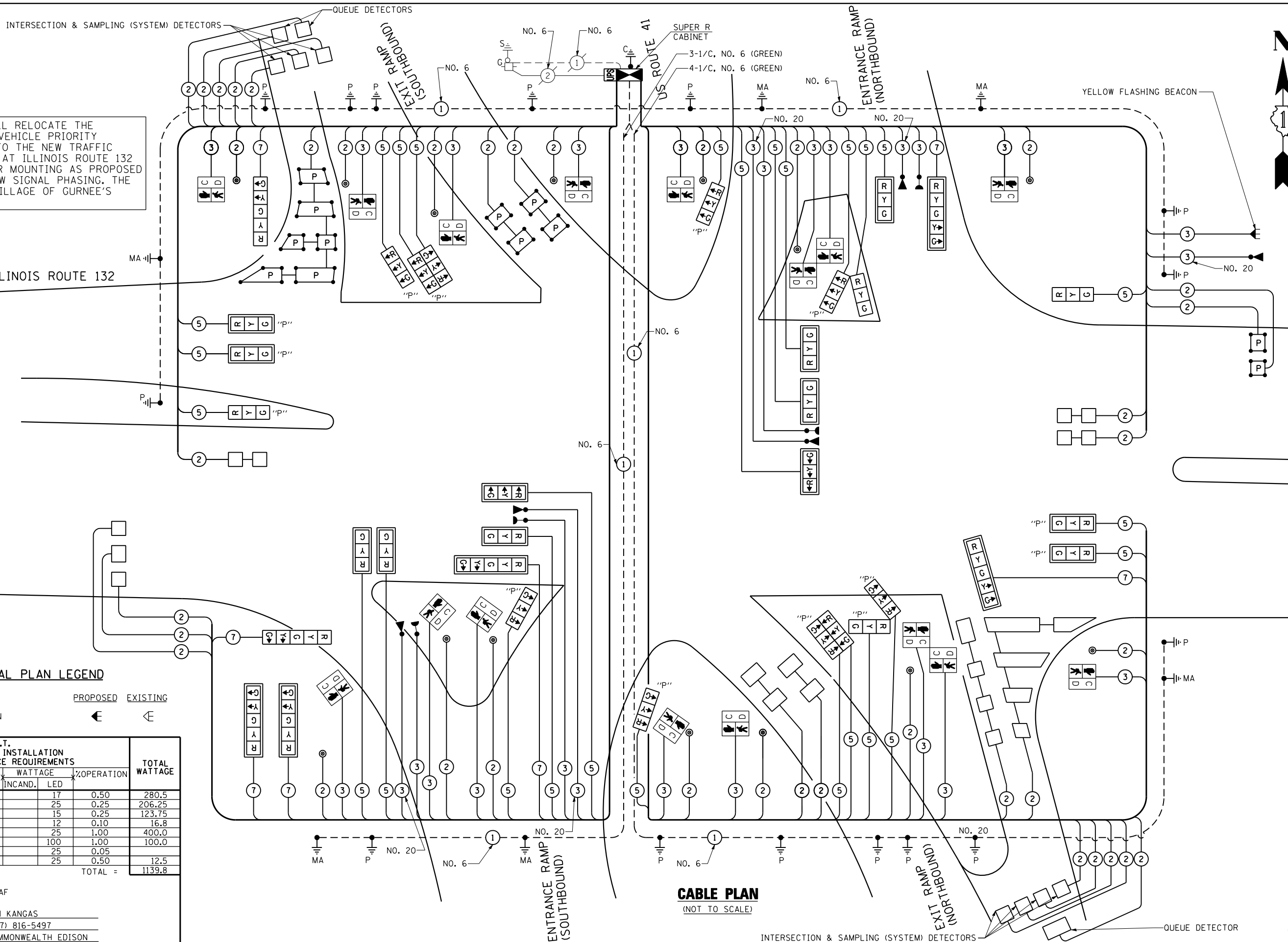
ILLINOIS ROUTE 132

TRAFFIC SIGNAL PLAN LEGEND

PROPOSED EXISTING
 YELLOW FLASHING BEACON ← ←

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	WATTAGE		OPERATION	
		INCAND.	LED		
SIGNAL (RED)	33	17	0.50	280.5	
(YELLOW)	33	25	0.25	206.25	
(GREEN)	33	15	0.25	123.75	
ARROW	14	12	0.10	16.8	
PED. SIGNAL	16	25	1.00	400.0	
CONTROLLER	1	100	1.00	100.0	
ILLUM. SIGN	1	25	0.05	12.5	
FLASHER	1	25	0.50	12.5	
ENERGY COSTS TO:				TOTAL =	1139.8

VILLAGE OF GURNEE
 325 NORTH O'PLAINE ROAD
 GURNEE, ILLINOIS 60031
 ENERGY SUPPLY CONTACT: KIM KANGAS
 PHONE: (847) 816-5497
 COMPANY: COMMONWEALTH EDISON



CABLE PLAN
(NOT TO SCALE)

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN
 ILLINOIS ROUTE 132 AT US ROUTE 41 RAMPS
 (SHEET 1 OF 2)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N	LAKE	361	164
CONTRACT NO. 60K80				

SCALE: 1"=20' SHEET NO. 29 OF 35 SHEETS STA. TO STA.

TS 6550

FILE NAME =
 #FILE#

GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 6035 N. NORTHWEST HIGHWAY
 SUITE 300
 CHICAGO, ILLINOIS 60631 TEL: (773) 774-590

USER NAME = #USER#	DESIGNED - PKG	REVISED -
PLOT SCALE = #SCALE#	DRAWN - EA, EB	REVISED -
PLOT DATE = #DATE#	CHECKED - PKG	REVISED -
	DATE - 1/22/2016	REVISED -

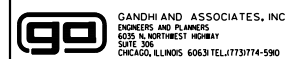
FED. ROAD DIST. NO. [] ILLINOIS FED. AID PROJECT

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	75
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	946
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2½" DIA.	FOOT	530
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	92
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3½" DIA.	FOOT	15
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1183
HANDHOLE	EACH	9
HEAVY-DUTY HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	3
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2671
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	4588
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	5154
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1795
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	10218
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1917
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	4
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	7
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 30 FT. AND 42 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	52
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	78
DRILL EXISTING HANDHOLE	EACH	6
FLASHING BEACON INSTALLATION	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	10
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	16
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	17
INDUCTIVE LOOP DETECTOR	EACH	25
DETECTOR LOOP, TYPE I	FOOT	1223
PREFORMED DETECTOR LOOP	FOOT	511
PEDESTRIAN PUSH-BUTTON	EACH	14
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
• RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	5
• RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	8
REMOVE EXISTING DOUBLE HANDHOLE	EACH	2
REMOVE EXISTING CONCRETE FOUNDATION	EACH	10
• EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1273
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 18 FT. AND 55 FT.	EACH	1

- 100% COST TO VILLAGE OF GURNEE

TS 6550



USER NAME = *USER*	DESIGNED - PKG	REVISED -
PLOT SCALE = *SCALE*	CHECKED - PKG	REVISED -
PLOT DATE = *DATE*	DATE - 1/22/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES		
ILLINOIS ROUTE 132 AT US ROUTE 41 RAMPS		
(SHEET 2 OF 2)		
SCALE: 1"=20'	SHEET NO. 30 OF 35 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N	LAKE	361	165
CONTRACT NO. 60K80				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

FILE NAME =
FILEL

PROPOSED SEQUENCE OF OPERATION

MOVEMENT	1+5																			1+6				2+5				2+6																		
	1	2	3A	3B	4A	4B	5A	5B	6	7	8A	8B	9	10	11A	11B	12	13	14A	14B	14C	14D	15A	15B	15C	15D	16A	16B	16C	16D	17A	17B	17C	17D	18A	18B	18C	18D	19A	19B	19C	19D				
PHASE	1+5																			1+6				2+5				2+6																		
INTERVAL	1+5																			1+6				2+5				2+6																		
CHANGE TO	1+5																			2+6				2+6				1+5 4+8																		
ILLINOIS ROUTE 132 (WEST OF BRIDGE) NEAR RIGHT AND RIGHT MAST ARM (ON SOUTHWEST ISLAND) SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	G	Y	R	R	R	Y	R	R	R	G	G	G	G	Y	R	R	R	Y	R	R	R	Y	R	R	R				
ILLINOIS ROUTE 132 (WEST OF BRIDGE) MID MAST ARM SIGNAL	E/B	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	G	Y	R	R	R	Y	R	R	R	G	G	G	G	Y	R	R	R	Y	R	R	R	Y	R	R	R				
ILLINOIS ROUTE 132 (EAST OF BRIDGE) MAST ARM AND NEAR RIGHT SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	G	Y	R	R	R	G	G	Y	R	G	G	G	G	G	G	G	G	G	G	Y	R	R	R	Y	R	R	R		
ILLINOIS ROUTE 132 (WEST OF BRIDGE - END MAST ARM, EAST OF BRIDGE - ON NORTHEAST ISLAND, AND FAR LEFT UNDER THE BRIDGE) LEFT TURN SIGNALS WITH ALL LEFT ARROW INDICATIONS	E/B	←G	←G	←Y	←R	←G	←G	←Y	←R	←R	←R	←R	←G	←G	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R			
ILLINOIS ROUTE 132 (EAST OF BRIDGE) NEAR RIGHT, AND RIGHT AND MID MAST ARM (ON NORTHEAST ISLAND) SIGNALS	W/B	R	R	R	R	R	R	R	R	G	G	G	R	R	R	R	G	G	Y	R	R	R	G	G	G	G	Y	R	R	R	Y	R	R	R	Y	R	R	R	Y	R	R	R				
ILLINOIS ROUTE 132 (WEST OF BRIDGE) MAST ARM AND MEDIAN MOUNTED SIGNALS	W/B	R	R	R	R	R	R	R	R	G	G	G	R	R	R	R	G	G	G	Y	R	R	R	G	G	G	G	G	Y	R	R	R	G	G	G	G	G	G	G	G	G	G	Y	R		
ILLINOIS ROUTE 132 (EAST OF BRIDGE - END MAST ARM, WEST OF BRIDGE - ON SOUTHWEST ISLAND, AND FAR LEFT UNDER THE BRIDGE) LEFT TURN SIGNALS WITH ALL LEFT ARROW INDICATIONS	W/B	←G	←G	←G	←G	←Y	←R	←Y	←R	←G	←G	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R		
NORTHBOUND EXIT RAMP FROM US ROUTE 41 NEAR RIGHT MAST ARM AND FAR RIGHT MAST ARM SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		
NORTHBOUND EXIT RAMP FROM US ROUTE 41 END MAST ARM AND NORTHEAST ISLAND FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		
NORTHBOUND EXIT RAMP FROM US ROUTE 41 LEFT TURN MOVEMENT - NEAR RIGHT AND TWO FAR SIDE (POST MOUNTED) SIGNALS WITH LEFT ARROW INDICATIONS	N/B	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R		
SOUTHBOUND EXIT RAMP FROM US ROUTE 41 RIGHT TURN MOVEMENT - NEAR RIGHT AND MAST ARM SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
SOUTHBOUND EXIT RAMP FROM US ROUTE 41 MAST ARM MOUNTED (ON SOUTHWEST ISLAND) SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
SOUTHBOUND EXIT RAMP FROM US ROUTE 41 LEFT TURN MOVEMENT - NEAR RIGHT AND TWO FAR SIDE (POST MOUNTED) SIGNALS WITH LEFT ARROW INDICATIONS	S/B	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R		
PEDESTRIAN SIGNALS CROSSING SOUTHBOUND US ROUTE 41 RIGHT TURN ENTRANCE RAMP TO SOUTHBOUND US ROUTE 41 ON SOUTH SIDE OF ILLINOIS ROUTE 132		•	••FH	H	H	H	H	H	H	•	••FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H		
PEDESTRIAN SIGNALS CROSSING EXIT RAMP FROM NORTHBOUND US ROUTE 41 AND LEFT TURN ENTRANCE RAMP TO SOUTHBOUND US ROUTE 41 ON SOUTH SIDE OF ILLINOIS ROUTE 132		H	H	H	H	H	H	H	H	H	H	H	•	••FH	H	H	•	••FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H		
PEDESTRIAN SIGNALS CROSSING ENTRANCE RAMP TO NORTHBOUND US ROUTE 41 AND EXIT RAMP FROM SOUTHBOUND US ROUTE 41 ON NORTH SIDE OF ILLINOIS ROUTE 132		H	H	H	H	H	H	H	H	•	••FH	H	H	H	H	H	•	••FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H		

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

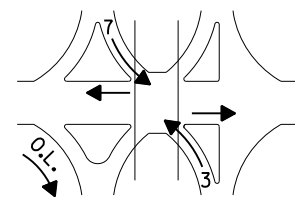
PHASE 2 + 6 SHALL BE PLACED ON RECALL.

- TO APPEAR ONLY UPON PUSHBUTTON ACTUATION.
- FLASHING "FH" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

THIS "•" OR FLASHING "FH" INTERVAL MAY FINISH TIMING IN THE BI-DIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "•" OR FLASHING "FH" INTERVALS. "•" AND FLASHING "FH" TIMINGS TO BE SET ONLY ON THE PHASES WHERE "•" AND FLASHING "FH" ARE INDICATED IN THE SEQUENCE OF OPERATION. THIS NOTE, HOWEVER, IS NOT APPLICABLE TO THE PEDESTRIAN CROSSING BETWEEN THE SOUTHWEST CORNER CURB RETURN AND THE ISLAND IN THE SOUTHWEST CORNER OF THE INTERSECTION.

PROPOSED SEQUENCE OF OPERATION (CONTINUED FROM SHEET 1 OF 3)

MOVEMENT	PHASE	3+7																							
		20	21A	21B	21C	21D	22A	22B	22C	22D	23A	23B	23C	23D	24A	24B	25A	25B	25C	25D	26A	26B	26C	26D	
CHANGE TO		1+5 4+8				1+6				2+5				2+6		3+8				4+7					
ILLINOIS ROUTE 132 (WEST OF BRIDGE) NEAR RIGHT AND RIGHT MAST ARM (ON SOUTHWEST ISLAND) SIGNALS	E/B	R G→	R Y→	R	R	R	R Y→	R	R	R	R Y→	R	R	R	R Y→	R	R G→	R G→	R G→	R G→	R Y→	R	R	R	
ILLINOIS ROUTE 132 (WEST OF BRIDGE) MID MAST ARM SIGNAL	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		
ILLINOIS ROUTE 132 (EAST OF BRIDGE) MAST ARM AND NEAR RIGHT SIGNALS	E/B	G	G	G	Y	R	G	G	Y	R	G	G	G	G	G	G	G	G	Y	R	G	G	G		
ILLINOIS ROUTE 132 (WEST OF BRIDGE - END MAST ARM, EAST OF BRIDGE - ON NORTHEAST ISLAND, AND FAR LEFT UNDER THE BRIDGE) LEFT TURN SIGNALS WITH ALL LEFT ARROW INDICATIONS	E/B	←R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	←R		
ILLINOIS ROUTE 132 (EAST OF BRIDGE) NEAR RIGHT, AND RIGHT AND MID MAST ARM (ON NORTHEAST ISLAND) SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		
ILLINOIS ROUTE 132 (WEST OF BRIDGE) MAST ARM AND MEDIAN MOUNTED SIGNALS	W/B	G	G	G	Y	R	G	G	G	G	G	G	Y	R	G	G	G	G	G	G	G	G	Y		
ILLINOIS ROUTE 132 (EAST OF BRIDGE - END MAST ARM, WEST OF BRIDGE - ON SOUTHWEST ISLAND, AND FAR LEFT UNDER THE BRIDGE) LEFT TURN SIGNALS WITH ALL LEFT ARROW INDICATIONS	W/B	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R		
NORTHBOUND EXIT RAMP FROM US ROUTE 41 NEAR RIGHT MAST ARM AND FAR RIGHT MAST ARM SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		
NORTHBOUND EXIT RAMP FROM US ROUTE 41 END MAST ARM AND NORTHEAST ISLAND FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		
NORTHBOUND EXIT RAMP FROM US ROUTE 41 LEFT TURN MOVEMENT - NEAR RIGHT AND TWO FAR SIDE (POST MOUNTED) SIGNALS WITH LEFT ARROW INDICATIONS	N/B	←G	←Y	←R	←R	←R	←Y	←R	←R	←R	←Y	←R	←R	←R	←Y	←R	←G	←G	←G	←G	←Y	←R	←R		
SOUTHBOUND EXIT RAMP FROM US ROUTE 41 RIGHT TURN MOVEMENT - NEAR RIGHT AND MAST ARM SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		
SOUTHBOUND EXIT RAMP FROM US ROUTE 41 MAST ARM MOUNTED (ON SOUTHWEST ISLAND) SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		
SOUTHBOUND EXIT RAMP FROM US ROUTE 41 LEFT TURN MOVEMENT - NEAR RIGHT AND TWO FAR SIDE (POST MOUNTED) SIGNALS WITH LEFT ARROW INDICATIONS	S/B	←G	←Y	←R	←R	←R	←Y	←R	←R	←R	←Y	←R	←R	←R	←Y	←R	←Y	←R	←R	←R	←G	←G	←G		
PEDESTRIAN SIGNALS CROSSING SOUTHBOUND US ROUTE 41 RIGHT TURN ENTRANCE RAMP TO SOUTHBOUND US ROUTE 41 ON SOUTH SIDE OF ILLINOIS ROUTE 132		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H		
PEDESTRIAN SIGNALS CROSSING EXIT RAMP FROM NORTHBOUND US ROUTE 41 AND LEFT TURN ENTRANCE RAMP TO SOUTHBOUND US ROUTE 41 ON SOUTH SIDE OF ILLINOIS ROUTE 132		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H		
PEDESTRIAN SIGNALS CROSSING ENTRANCE RAMP TO NORTHBOUND US ROUTE 41 AND EXIT RAMP FROM SOUTHBOUND US ROUTE 41 ON NORTH SIDE OF ILLINOIS ROUTE 132		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H		



P = ILLUMINATED PERSON = WALK
 FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK
 H = ILLUMINATED SOLID HAND = DON'T WALK
 PHASE 2 + 6 SHALL BE PLACED ON RECALL.
 * TO APPEAR ONLY UPON PUSHBUTTON ACTUATION.
 ** FLASHING "Ⓜ" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

∅ THIS "Ⓜ" OR FLASHING "Ⓜ" INTERVAL MAY FINISH TIMING IN THE BI-DIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "Ⓜ" OR FLASHING "Ⓜ" INTERVALS. "Ⓜ" AND FLASHING "Ⓜ" TIMINGS TO BE SET ONLY ON THE PHASES WHERE "Ⓜ" AND FLASHING "Ⓜ" ARE INDICATED IN THE SEQUENCE OF OPERATION.

FILE NAME =
 #FILE#



USER NAME = *USER*	DESIGNED - PKG	REVISED -
	DRAWN - EA, EB	REVISED -
PLOT SCALE = *SCALE*	CHECKED - PKG	REVISED -
PLOT DATE = *DATE*	DATE - 1/22/2016	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED SEQUENCE OF OPERATION
 ILLINOIS ROUTE 132 AT US ROUTE 41 RAMPS
 (SHEET 2 OF 3)
 SCALE: 1"=20' SHEET NO. 32 OF 35 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N	LAKE	361	167
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60K80	

TS 6550

PROPOSED SEQUENCE OF OPERATION (CONTINUED FROM SHEET 2 OF 3)

MOVEMENT	3+8												4+7								4+8			F L A S H				
	27	28A	28B	28C	28D	29A	29B	30A	30B	30C	30D	31	32A	32B	32C	32D	33A	33B	34A	34B	34C	34D	35		36A	36B		
	1+5 2+5		1+6 2+6		4+8				1+5 1+6		2+5 2+6		4+8				1+5 1+6 2+5 2+6											
ILLINOIS ROUTE 132 (WEST OF BRIDGE) NEAR RIGHT AND RIGHT MAST ARM (ON SOUTHWEST ISLAND) SIGNALS	E/B	R G→	R Y→	R	R	R	R Y→	R	R Y→	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
ILLINOIS ROUTE 132 (WEST OF BRIDGE) MID MAST ARM SIGNAL	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
ILLINOIS ROUTE 132 (EAST OF BRIDGE) MAST ARM AND NEAR RIGHT SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	G	G	G	G	Y	R	R	R	R	R	R	
ILLINOIS ROUTE 132 (WEST OF BRIDGE - END MAST ARM, EAST OF BRIDGE - ON NORTHEAST ISLAND, AND FAR LEFT UNDER THE BRIDGE) LEFT TURN SIGNALS WITH ALL LEFT ARROW INDICATIONS	E/B	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	
ILLINOIS ROUTE 132 (EAST OF BRIDGE) NEAR RIGHT, AND RIGHT AND MID MAST ARM (ON NORTHEAST ISLAND) SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
ILLINOIS ROUTE 132 (WEST OF BRIDGE) MAST ARM AND MEDIAN MOUNTED SIGNALS	W/B	G	G	G	Y	R	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
ILLINOIS ROUTE 132 (EAST OF BRIDGE - END MAST ARM, WEST OF BRIDGE - ON SOUTHWEST ISLAND, AND FAR LEFT UNDER THE BRIDGE) LEFT TURN SIGNALS WITH ALL LEFT ARROW INDICATIONS	W/B	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	
NORTHBOUND EXIT RAMP FROM US ROUTE 41 NEAR RIGHT MAST ARM AND FAR RIGHT MAST ARM SIGNALS	N/B	G	Y	R	R	R	Y	R	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R
NORTHBOUND EXIT RAMP FROM US ROUTE 41 END MAST ARM AND NORTHEAST ISLAND FAR LEFT SIGNALS	N/B	G	Y	R	R	R	Y	R	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R
NORTHBOUND EXIT RAMP FROM US ROUTE 41 LEFT TURN MOVEMENT - NEAR RIGHT AND TWO FAR SIDE (POST MOUNTED) SIGNALS WITH LEFT ARROW INDICATIONS	N/B	←G	←Y	←R	←R	←R	←Y	←R	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R
SOUTHBOUND EXIT RAMP FROM US ROUTE 41 RIGHT TURN MOVEMENT - NEAR RIGHT AND MAST ARM SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	Y	R	G	G	G	G	G	Y	R	R	
SOUTHBOUND EXIT RAMP FROM US ROUTE 41 MAST ARM MOUNTED (ON SOUTHWEST ISLAND) SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	Y	R	G	G	G	G	Y	R	R		
SOUTHBOUND EXIT RAMP FROM US ROUTE 41 LEFT TURN MOVEMENT - NEAR RIGHT AND TWO FAR SIDE (POST MOUNTED) SIGNALS WITH LEFT ARROW INDICATIONS	S/B	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←G	←Y	←R	←R	←R	←Y	←R	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R
PEDESTRIAN SIGNALS CROSSING SOUTHBOUND US ROUTE 41 RIGHT TURN ENTRANCE RAMP TO SOUTHBOUND US ROUTE 41 ON SOUTH SIDE OF ILLINOIS ROUTE 132		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING EXIT RAMP FROM NORTHBOUND US ROUTE 41 AND LEFT TURN ENTRANCE RAMP TO SOUTHBOUND US ROUTE 41 ON SOUTH SIDE OF ILLINOIS ROUTE 132		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING ENTRANCE RAMP TO NORTHBOUND US ROUTE 41 AND EXIT RAMP FROM SOUTHBOUND US ROUTE 41 ON NORTH SIDE OF ILLINOIS ROUTE 132		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H

P = ILLUMINATED PERSON = WALK
 FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK
 H = ILLUMINATED SOLID HAND = DON'T WALK
 PHASE 2 + 6 SHALL BE PLACED ON RECALL.
 * TO APPEAR ONLY UPON PUSHBUTTON ACTUATION.
 ** FLASHING "Ⓜ" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

∅ THIS "Ⓜ" OR FLASHING "Ⓜ" INTERVAL MAY FINISH TIMING IN THE BI-DIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "Ⓜ" OR FLASHING "Ⓜ" INTERVALS. "Ⓜ" AND FLASHING "Ⓜ" TIMINGS TO BE SET ONLY ON THE PHASES WHERE "Ⓜ" AND FLASHING "Ⓜ" ARE INDICATED IN THE SEQUENCE OF OPERATION.

FILE NAME =
 #FILE#



USER NAME = #USER#	DESIGNED - PKG	REVISED -
PLOT SCALE = #SCALE#	DRAWN - EA, EB	REVISED -
PLOT DATE = #DATE#	CHECKED - PKG	REVISED -
	DATE - 1/22/2016	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED SEQUENCE OF OPERATION
 ILLINOIS ROUTE 132 AT US ROUTE 41 RAMPS
 (SHEET 3 OF 3)**

SCALE: 1"=20' SHEET NO. 33 OF 35 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N	LAKE	361	168
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60K80	

TS 6550

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1			1			1			6				6			9			9				12				12				12											
EMERGENCY VEHICLE PRE-EMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z	1AA	1BB	1CC	1DD	1EE	1FF	1GG	1HH	1JJ	1KK	1LL	1MM	1NN	1PP	1QQ	1RR			
CHANGE TO EMERGENCY VEHICLE PRE-EMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	1C	2	1E	1F	3,5	1H	1J	4	1L	1M	1N	1P	2,3,5	1R	1S	4	1U	1V	2	1X	1Y	1Z	1AA	3,4,5	1CC	1DD	1EE	1FF	2	1HH	1JJ	1KK	1LL	3,5	1NN	1PP	1QQ	1RR	4			
ILLINOIS ROUTE 132 (WEST OF BRIDGE) NEAR RIGHT AND RIGHT MAST ARM (ON SOUTHWEST ISLAND) SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	Y	R	R	R	G	G	G	G	G	G	Y	R	R	R	R	G	Y	R	R	R		
ILLINOIS ROUTE 132 (WEST OF BRIDGE) MID MAST ARM SIGNAL	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	Y	R	R	R	G	G	G	G	G	G	Y	R	R	R	R	G	Y	R	R	R		
ILLINOIS ROUTE 132 (EAST OF BRIDGE) MAST ARM AND NEAR RIGHT SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	G	Y	R	G	G	G	G	G	G	G	G	Y	R	R	R	G	G	G	Y	R	
ILLINOIS ROUTE 132 (WEST OF BRIDGE - END MAST ARM, EAST OF BRIDGE - ON NORTHEAST ISLAND, AND FAR LEFT UNDER THE BRIDGE) LEFT TURN SIGNALS WITH ALL LEFT ARROW INDICATIONS	E/B	←G	←G	←G	←G	←Y	←R	←G	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←G	←G	←G	←G	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R		
ILLINOIS ROUTE 132 (EAST OF BRIDGE) NEAR RIGHT, AND RIGHT AND MID MAST ARM (ON NORTHEAST ISLAND) SIGNALS	W/B	R	R	R	R	R	R	R	R	G	Y	R	R	R	G	G	G	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	G	Y	R	R	R	R	G	G	G	G	G	
ILLINOIS ROUTE 132 (WEST OF BRIDGE) MAST ARM AND MEDIAN MOUNTED SIGNALS	W/B	R	R	R	R	R	R	R	R	G	G	G	Y	R	G	G	G	R	R	R	R	R	R	R	R	G	G	G	Y	R	G	G	G	Y	R	R	R	G	G	G	G	G	
ILLINOIS ROUTE 132 (EAST OF BRIDGE - END MAST ARM, WEST OF BRIDGE - ON SOUTHWEST ISLAND, AND FAR LEFT UNDER THE BRIDGE) LEFT TURN SIGNALS WITH ALL LEFT ARROW INDICATIONS	W/B	←G	←Y	←R	←G	←Y	←R	←G	←G	←G	←Y	←R	←R	←R	←G	←G	←G	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	
NORTHBOUND EXIT RAMP FROM US ROUTE 41 NEAR RIGHT MAST ARM AND FAR RIGHT MAST ARM SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
NORTHBOUND EXIT RAMP FROM US ROUTE 41 END MAST ARM AND NORTHEAST ISLAND FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
NORTHBOUND EXIT RAMP FROM US ROUTE 41 LEFT TURN MOVEMENT - NEAR RIGHT AND TWO FAR SIDE (POST MOUNTED) SIGNALS WITH LEFT ARROW INDICATIONS	N/B	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	
SOUTHBOUND EXIT RAMP FROM US ROUTE 41 RIGHT TURN MOVEMENT - NEAR RIGHT AND MAST ARM SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
SOUTHBOUND EXIT RAMP FROM US ROUTE 41 MAST ARM MOUNTED (ON SOUTHWEST ISLAND) SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
SOUTHBOUND EXIT RAMP FROM US ROUTE 41 LEFT TURN MOVEMENT - NEAR RIGHT AND TWO FAR SIDE (POST MOUNTED) SIGNALS WITH LEFT ARROW INDICATIONS	S/B	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	
PEDESTRIAN SIGNALS CROSSING SOUTHBOUND US ROUTE 41 RIGHT TURN ENTRANCE RAMP TO SOUTHBOUND US ROUTE 41 ON SOUTH SIDE OF ILLINOIS ROUTE 132	FH	H	H	FH	H	H	FH	H	H	FH	H	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
PEDESTRIAN SIGNALS CROSSING EXIT RAMP FROM NORTHBOUND US ROUTE 41 AND LEFT TURN ENTRANCE RAMP TO SOUTHBOUND US ROUTE 41 ON SOUTH SIDE OF ILLINOIS ROUTE 132	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	FH	H	H	H	FH	H	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	
PEDESTRIAN SIGNALS CROSSING ENTRANCE RAMP TO NORTHBOUND US ROUTE 41 AND EXIT RAMP FROM SOUTHBOUND US ROUTE 41 ON NORTH SIDE OF ILLINOIS ROUTE 132	H	H	H	H	H	H	H	H	H	FH	H	H	H	H	FH	H	H	H	H	H	H	H	H	H	FH	H	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	

FILE NAME =
#FILE#



USER NAME = #USER#	DESIGNED - PKG	REVISED -
DRAWN - EA, EB	CHECKED - PKG	REVISED -
PLOT SCALE = #SCALE#	DATE - 1/22/2016	REVISED -
PLOT DATE = #DATE#		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION
ILLINOIS ROUTE 132 AT US ROUTE 41 RAMPS
(SHEET 1 OF 2)**

SCALE: 1"=20' SHEET NO. 34 OF 35 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N	LAKE	361	169
CONTRACT NO. 60K80			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT	

TS 6550



















PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION (CONTINUED FROM SHEET 1 OF 2)

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	20		20		20		20		27		27	27	31		31	35		35		35		PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 5	PREEMPTOR NUMBER 6	CLEAR TO NORMAL SEQUENCE																	
	1SS	1TT	1UU	1VV	1WW	1XX	1YY	1ZZ	1AAA	1BBB	1CCC	1DDD	1EEE	1FFF	1GGG	1HHH	1JJJ	1KKK	1LLL	1MMM	1NNN	1PPP	1QQQ	1RRR	1SSS		1TTT	1UUU	1VVV	1WWW	1XXX	1YYY	1ZZZ	1AAAA	1BBBB	2	3	4	5				
EMERGENCY VEHICLE PRE-EMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1SS	1TT	1UU	1VV	1WW	1XX	1YY	1ZZ	1AAA	1BBB	1CCC	1DDD	1EEE	1FFF	1GGG	1HHH	1JJJ	1KKK	1LLL	1MMM	1NNN	1PPP	1QQQ	1RRR	1SSS	1TTT	1UUU	1VVV	1WWW	1XXX	1YYY	1ZZZ	1AAAA	1BBBB	2	3	4	5					
CHANGE TO EMERGENCY VEHICLE PRE-EMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1TT	1UU	1VV	2	1XX	1YY	1ZZ	3	1BBB	1CCC	1DDD	4	1FFF	1GGG	1HHH	5	1KKK	1LLL	1MMM	2,3	1PPP	4	5	1SSS	1TTT	1UUU	2,4,5	3	1XXX	2,4	1ZZZ	3	1BBBB	5									
ILLINOIS ROUTE 132 (WEST OF BRIDGE) NEAR RIGHT AND RIGHT MAST ARM (ON SOUTHWEST ISLAND) SIGNALS	E/B R Y→	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R	R	◇	
ILLINOIS ROUTE 132 (WEST OF BRIDGE) MID MAST ARM SIGNAL	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R	R	◇
ILLINOIS ROUTE 132 (EAST OF BRIDGE) MAST ARM AND NEAR RIGHT SIGNALS	E/B	G	G	G	G	G	G	G	G	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	R	R	◇
ILLINOIS ROUTE 132 (WEST OF BRIDGE - END MAST ARM, EAST OF BRIDGE - ON NORTHEAST ISLAND, AND FAR LEFT UNDER THE BRIDGE) LEFT TURN SIGNALS WITH ALL LEFT ARROW INDICATIONS	E/B	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	◇
ILLINOIS ROUTE 132 (EAST OF BRIDGE) NEAR RIGHT, AND RIGHT AND MID MAST ARM (ON NORTHEAST ISLAND) SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◇
ILLINOIS ROUTE 132 (WEST OF BRIDGE) MAST ARM AND MEDIAN MOUNTED SIGNALS	W/B	G	G	Y	R	G	G	Y	R	G	G	G	G	G	G	G	G	G	Y	R	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	◇
ILLINOIS ROUTE 132 (EAST OF BRIDGE - END MAST ARM, WEST OF BRIDGE - ON SOUTHWEST ISLAND, AND FAR LEFT UNDER THE BRIDGE) LEFT TURN SIGNALS WITH ALL LEFT ARROW INDICATIONS	W/B	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	◇
NORTHBOUND EXIT RAMP FROM US ROUTE 41 NEAR RIGHT MAST ARM AND FAR RIGHT MAST ARM SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	Y	R	G	R	R	R	R	R	Y	R	Y	R	G	G	R	R	R	R	G	◇			
NORTHBOUND EXIT RAMP FROM US ROUTE 41 END MAST ARM AND NORTHEAST ISLAND FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	Y	R	G	R	R	R	R	R	Y	R	Y	R	G	G	R	R	R	R	G	◇			
NORTHBOUND EXIT RAMP FROM US ROUTE 41 LEFT TURN MOVEMENT - NEAR RIGHT AND TWO FAR SIDE (POST MOUNTED) SIGNALS WITH LEFT ARROW INDICATIONS	N/B	←Y	←R	←R	←R	←Y	←R	←R	←R	←Y	←R	←R	←G	←G	←G	←G	←Y	←R	←R	←R	←Y	←R	←G	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←G	◇
SOUTHBOUND EXIT RAMP FROM US ROUTE 41 RIGHT TURN MOVEMENT - NEAR RIGHT AND MAST ARM SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	G	Y	R	G	G	Y	R	R	G	R	R	◇				
SOUTHBOUND EXIT RAMP FROM US ROUTE 41 MAST ARM MOUNTED (ON SOUTHWEST ISLAND) SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	G	Y	R	G	G	Y	R	R	G	R	R	◇				
SOUTHBOUND EXIT RAMP FROM US ROUTE 41 LEFT TURN MOVEMENT - NEAR RIGHT AND TWO FAR SIDE (POST MOUNTED) SIGNALS WITH LEFT ARROW INDICATIONS	S/B	←Y	←R	←R	←R	←G	←G	←G	←G	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←Y	←R	←R	←R	←G	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	◇		
PEDESTRIAN SIGNALS CROSSING SOUTHBOUND US ROUTE 41 RIGHT TURN ENTRANCE RAMP TO SOUTHBOUND US ROUTE 41 ON SOUTH SIDE OF ILLINOIS ROUTE 132	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◇	
PEDESTRIAN SIGNALS CROSSING EXIT RAMP FROM NORTHBOUND US ROUTE 41 AND LEFT TURN ENTRANCE RAMP TO SOUTHBOUND US ROUTE 41 ON SOUTH SIDE OF ILLINOIS ROUTE 132	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◇	
PEDESTRIAN SIGNALS CROSSING ENTRANCE RAMP TO NORTHBOUND US ROUTE 41 AND EXIT RAMP FROM SOUTHBOUND US ROUTE 41 ON NORTH SIDE OF ILLINOIS ROUTE 132	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◇	

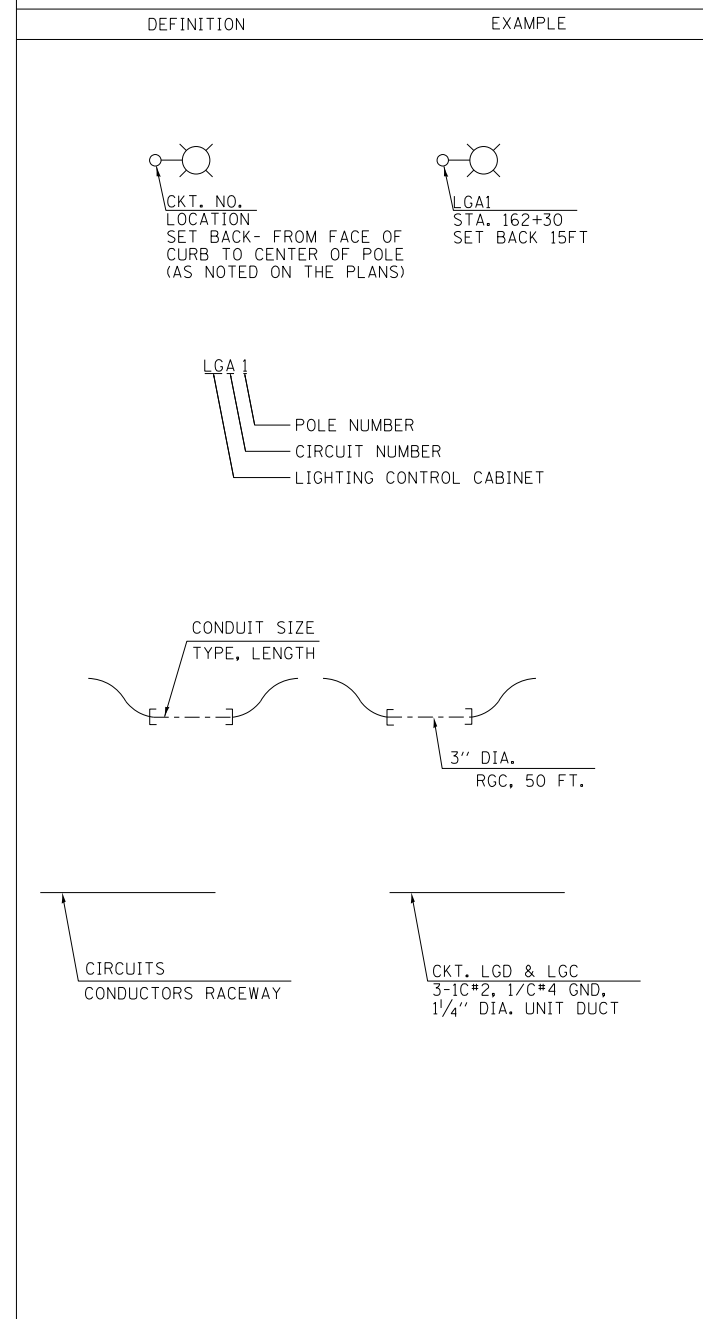
◇ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2, 3, 4 OR 5 IS TERMINATED.

TS 6550

LEGEND (IDOT)

-  PROPOSED LIGHTING UNIT
47.5' M.H., 10' M.A., 400W, 240V HPS,
MC-III LUMINAIRE TRANSFORMER
BASE BREAKAWAY, IDOT MAINTAINED
-  PROPOSED COMBINATION LIGHTING UNIT
45' M.H., 10' M.A., 400W, 240V HPS, MC-III
LUMINAIRE IDOT MAINTAINED
-  TEMPORARY LIGHTING UNIT
400W HPS, TYPE MC-III, 50 M.H. 15' M.A.
-  EXISTING LIGHTING UNIT
TO REMAIN IN PLACE
-  EXISTING IDOT LIGHTING UNIT
TO REMOVED AND SALVAGE
-  EXISTING LIGHTING UNIT TO BE RELOCATED
(ORIGINAL LOCATION). X: IS THE NUMBER OF
LIGHTING UNIT NUMBER TO BE RELOCATED
E: EXISTING LOCATION
-  RELOCATED EXISTING LIGHTING UNIT
(PROPOSED LOCATION). X: IS THE NUMBER OF
LIGHTING UNIT NUMBER TO BE RELOCATED
P: PROPOSED LOCATION
-  PROPOSED UNDERPASS LIGHTING UNIT 100W, 240V
HPS, TYPE IV LUMINAIRE, IDOT MAINTAINED
-  UNDERPASS LIGHTING UNIT 70W, TO REMAIN IN
PLACE IDOT MAINTAINED
-  EXISTING JUNCTION BOX, TO REMAIN IN PLACE
-  PROPOSED JUNCTION BOX, SIZE AND TYPE AS
INDICATED
-  PROPOSED UNDERGROUND CONDUITS
SIZE AND TYPE AS NOTED
-  PROPOSED UNIT DUCT, AS SPECIFIED IN PLANS
-  PROPOSED AERIAL CABLE, AS SPECIFIED IN PLANS
-  EXISTING UNDERGROUND CABLES
TO REMAIN IN PLACE
-  EXISTING LIGHTING CONTROLLER CABINET "LG",
TO REMAIN IN PLACE
-  EXISTING PAD MOUNTED TRANSFORMER
240V/480V VAC SINGLE PHASE, 3 WIRE, 200A,
TO REMAIN IN PLACE
-  ELECTRIC GROUND ROD, 5/8" X 10FT

CALL-OUT SAMPLES



ABBREVIATIONS

SYMBOL	DESCRIPTION
AC	ALTERNATING CURRENT
A/C	AERIAL CABLE
AFG	ABOVE FINISHED GRADE
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CM	CENTIMETER
CNC	COILABLE NONMETALLIC CONDUIT
CT	CURRENT TRANSFORMER
CP	CONTROL PANEL
DA	DAVIT ARM
DC	DIRECT CURRENT
DIA	DIAMETER
DP	DISTRIBUTION PANEL
E	EXISTING UNIT TO REMAIN
ECA	ELECTRIC CABLE ASSEMBLY
EM	EXISTING UNIT TO BE MODIFIED (e.g. NEW LUMINAIRE, BALLAST OR MAST ARM)
ER	EXISTING RELOCATED UNIT
ET	EXISTING TEMPORARY UNIT TO REMAIN
ETR	EXISTING TEMPORARY RELOCATED UNIT
FT	FEET OR FOOT
FND BW	FOUNDATION BARRIER WALL
FND BW OS	FOUNDATION BARRIER WALL OFFSET
FND CON	FOUNDATION CONCRETE
FND CON OS	FOUNDATION CONCRETE OFFSET
FND MET	FOUNDATION METAL
FND PW	FOUNDATION PARAPET WALL
FU	FUSE
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
HPS	HIGH PRESSURE SODIUM
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
M	METER
MA	MAST ARM
MM	MILLIMETER
MH	MOUNTING HEIGHT
NO. #	NUMBER
P	PROPOSED
PB	PUSH BUTTON
PNL	PANEL
PVCC RGC	PVC COATED RIGID GALVANIZED CONDUIT
PT	POTENTIAL TRANSFORMER
R	EXISTING UNIT TO BE REMOVED (OWNER SALVAGED U.N.O.)
RR	EXISTING UNIT TO BE REMOVED AND REINSTALLED
RECP	RECEPTACLE
RGC	RIGID GALVANIZED CONDUIT
RGS	RIGID GALVANIZED STEEL
SEL SW	SELECTOR SWITCH
SPARE	SPARE
SPACE	SPACE
SS	STAINLESS STEEL
STA	STATION
T	TEMPORARY LIGHTING UNIT
TB	TRANSFORMER BASE
TMP	TEMPORARY
TR	TEMPORARY UNIT TO BE REMOVED. SALVAGE EQUIPMENT AS SPECIFIED
TRR	TEMPORARY UNIT TO BE REMOVED AND RELOCATED
TUR	TEMPORARY UNIT ON UTILITY POLE TO BE REMOVED
UD	UNIT DUCT
U.N.O.	UNLESS NOTED OTHERWISE
WP	WOOD POLE
XFMR	TRANSFORMER

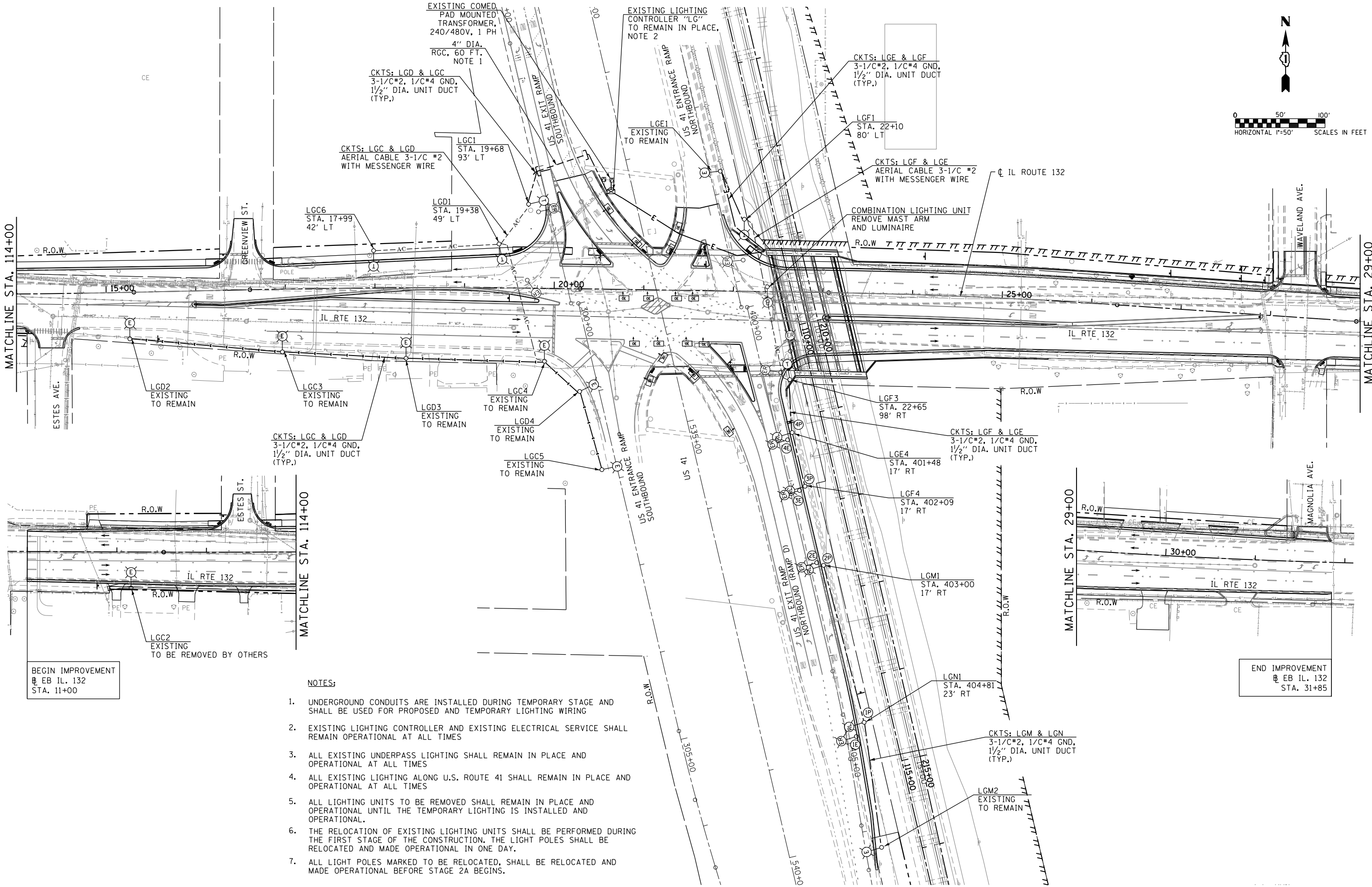
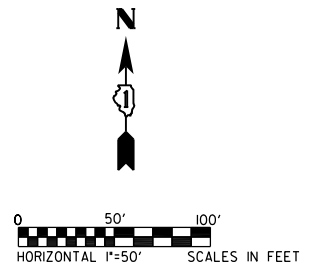
GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL OF THE INFORMATION SHOWN ON THE CONTRACT DRAWINGS, WHICH WOULD AFFECT THE WORK UNDER THIS CONTRACT.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS PROJECT, SPECIFICALLY AS THEY RELATE TO LUMP SUM ITEMS AND UNIT PRICE ITEMS.
3. ALL NEW CONDUITS, UNIT DUCTS, DIRECT BURIAL CABLES, AND APPURTENANCES ARE INDICATED DIAGRAMMATICALLY ON THE DRAWINGS. THE ACTUAL LOCATIONS IN THE FIELD SHALL MEET WITH APPROVAL OF THE ENGINEER.
4. THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ASSOCIATED SUPPLEMENTAL CONDITIONS (LATEST EDITION).
5. THE SCALE SHOWN ON PLAN DRAWINGS APPLIES ONLY TO THE FULL SIZE PLANS AND NOT TO REDUCED SIZE PLANS.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL LUMINAIRE LAMPS IN ACCORDANCE WITH THE SUPPLIER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE SPECIFICATIONS. THE COST OF THIS WORK AND MATERIAL SHALL BE INCLUDED IN THE APPLICABLE LUMINAIRE PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
7. ALL LUMINAIRES SHALL BE ORIENTED WITH THE OPTICS PERPENDICULAR TO THE ROADWAY UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE APPLICABLE LUMINAIRE PAY ITEMS. SEPARATE PAYMENT WILL NOT BE MADE.
8. CONDUITS AND UNIT DUCTS SHALL BE INSTALLED AT A MINIMUM 30" DEPTH BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDERDRAINS AND OTHER EXISTING AND PROPOSED UTILITIES. THE CONTRACTOR SHALL INCREASE DEPTH OF UNIT DUCT AND CONDUIT AS REQUIRED AT NO ADDITIONAL COST TO THE STATE. THE CONTRACTOR SHALL COORDINATE RACEWAY DEPTH WITH THE ELECTRICAL DETAILS OR AS DIRECTED BY THE ENGINEER.
9. WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR DIRECTION IN WRITING PRIOR TO EXCAVATION. THE CONTRACTOR SHALL RESTORE ANY DAMAGE TO EXISTING SYSTEMS OR UTILITIES AND REMOVE EXISTING OBSTRUCTIONS AND FOUNDATIONS TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE APPROPRIATE PAY ITEM.
10. BREAKAWAY DEVICE, TRANSFORMER BASE, 9", SHALL BE INSTALLED ON ALL GROUND MOUNTED POLES WITH 15" BOLT CIRCLE ON 24" DIA. FOUNDATION AS SHOWN IN THE PLANS.
11. SET BACK DISTANCES FOR LIGHT POLES ALONG IL ROUTE 132 AND RAMPS ARE MEASURED FROM THE FACE OF CURB TO THE CENTER OF THE PROPOSED LIGHT POLE FOUNDATION.
12. THE COST OF ALL GROUND RODS SHALL BE INCLUDED IN THE COST OF THE ITEM FOR WHICH IT IS INSTALLED.

SCHEDULE OF QUANTITIES

DESIGNATION	UNIT	TOTAL QUANTITY
* UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	374
* UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	60
CONDUIT ATTACHED TO STRUCTURE, 1 1/2" DIA., PVC COATED GALVANIZED STEEL	FOOT	320
CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	15
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	4
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 16" X 14" X 6"	EACH	4
* UNIT DUCT, 600V, 3-1C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	2783
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	400
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3/C NO. 4	FOOT	400
AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	520
* LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	6
* UNDERPASS LUMINAIRE, 100 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	8
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 10 FT. MAST ARM	EACH	3
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	91
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	13
REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	5
REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	1
REMOVAL OF POLE FOUNDATION	EACH	9
RELOCATE EXISTING LIGHTING UNIT	EACH	9
TEMPORARY WOOD POLE, 60 FT., CLASS 4, 15 FT. MAST ARM	EACH	5
* LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	14
* MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12
* LIGHT POLE, ALUMINUM, WITH MAST ARM, INSTALL ONLY	EACH	1

* DESIGNATES SPECIAL PROVISIONS



BEGIN IMPROVEMENT
 EB IL. 132
 STA. 11+00

END IMPROVEMENT
 EB IL. 132
 STA. 31+85

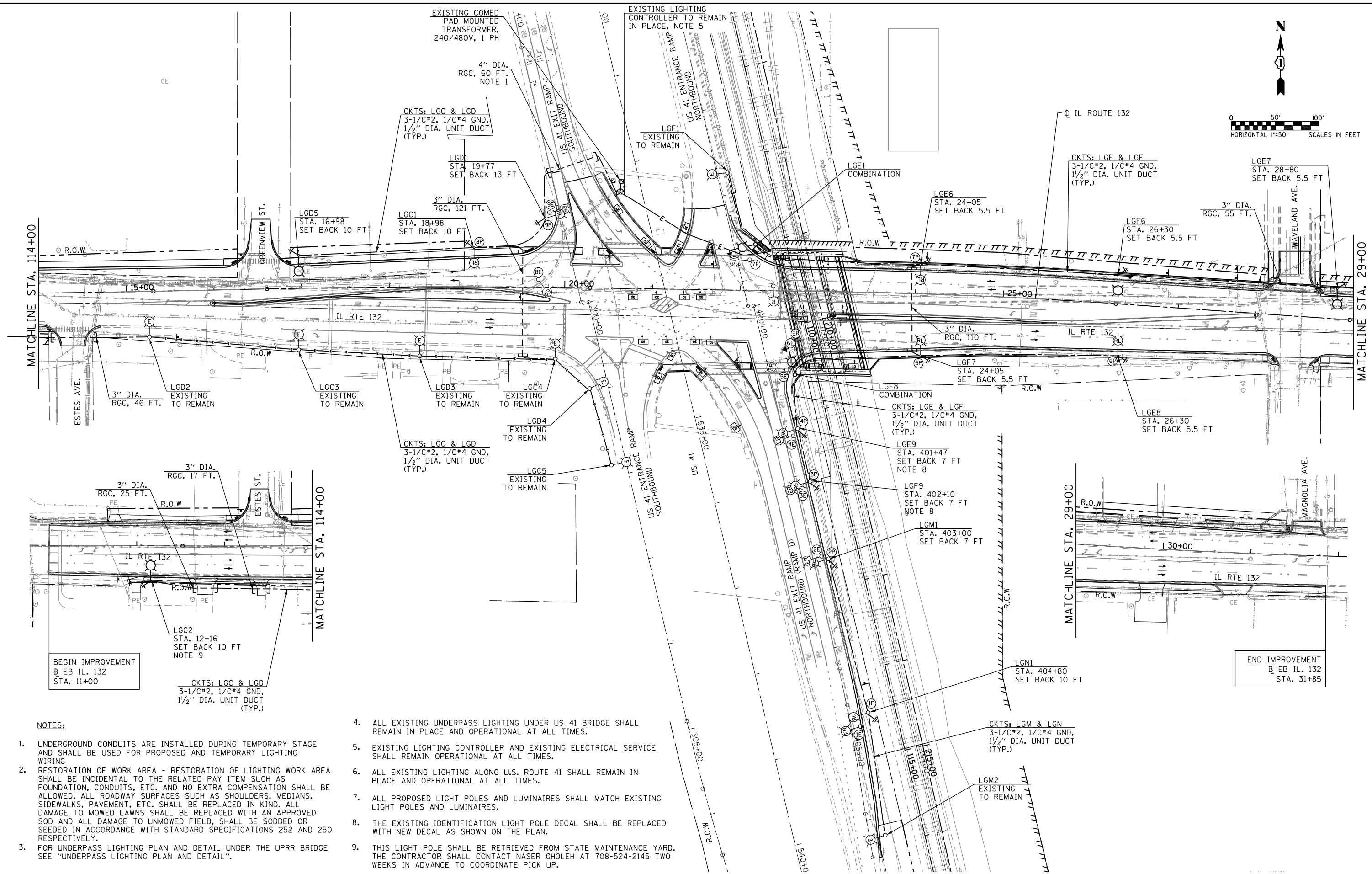
- NOTES:**
1. UNDERGROUND CONDUITS ARE INSTALLED DURING TEMPORARY STAGE AND SHALL BE USED FOR PROPOSED AND TEMPORARY LIGHTING WIRING
 2. EXISTING LIGHTING CONTROLLER AND EXISTING ELECTRICAL SERVICE SHALL REMAIN OPERATIONAL AT ALL TIMES
 3. ALL EXISTING UNDERPASS LIGHTING SHALL REMAIN IN PLACE AND OPERATIONAL AT ALL TIMES
 4. ALL EXISTING LIGHTING ALONG U.S. ROUTE 41 SHALL REMAIN IN PLACE AND OPERATIONAL AT ALL TIMES
 5. ALL LIGHTING UNITS TO BE REMOVED SHALL REMAIN IN PLACE AND OPERATIONAL UNTIL THE TEMPORARY LIGHTING IS INSTALLED AND OPERATIONAL.
 6. THE RELOCATION OF EXISTING LIGHTING UNITS SHALL BE PERFORMED DURING THE FIRST STAGE OF THE CONSTRUCTION. THE LIGHT POLES SHALL BE RELOCATED AND MADE OPERATIONAL IN ONE DAY.
 7. ALL LIGHT POLES MARKED TO BE RELOCATED, SHALL BE RELOCATED AND MADE OPERATIONAL BEFORE STAGE 2A BEGINS.

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	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -
	PLOT DATE = 1/22/2016	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TEMPORARY LIGHTING AND REMOVAL PLANS ILLINOIS ROUTE 132 AT US ROUTE 41			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346		LAKE	361	173
CONTRACT NO. 60K80				
ILLINOIS FED. AID PROJECT				



NOTES:

1. UNDERGROUND CONDUITS ARE INSTALLED DURING TEMPORARY STAGE AND SHALL BE USED FOR PROPOSED AND TEMPORARY LIGHTING WIRING
2. RESTORATION OF WORK AREA - RESTORATION OF LIGHTING WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUITS, ETC. AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED FIELD, SHALL BE SODDED OR SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.
3. FOR UNDERPASS LIGHTING PLAN AND DETAIL UNDER THE UPRR BRIDGE SEE "UNDERPASS LIGHTING PLAN AND DETAIL".

4. ALL EXISTING UNDERPASS LIGHTING UNDER US 41 BRIDGE SHALL REMAIN IN PLACE AND OPERATIONAL AT ALL TIMES.
5. EXISTING LIGHTING CONTROLLER AND EXISTING ELECTRICAL SERVICE SHALL REMAIN OPERATIONAL AT ALL TIMES.
6. ALL EXISTING LIGHTING ALONG U.S. ROUTE 41 SHALL REMAIN IN PLACE AND OPERATIONAL AT ALL TIMES.
7. ALL PROPOSED LIGHT POLES AND LUMINAIRES SHALL MATCH EXISTING LIGHT POLES AND LUMINAIRES.
8. THE EXISTING IDENTIFICATION LIGHT POLE DECAL SHALL BE REPLACED WITH NEW DECAL AS SHOWN ON THE PLAN.
9. THIS LIGHT POLE SHALL BE RETRIEVED FROM STATE MAINTENANCE YARD. THE CONTRACTOR SHALL CONTACT NASER GHOLEH AT 708-524-2145 TWO WEEKS IN ADVANCE TO COORDINATE PICK UP.

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	PLOT DATE = 1/22/2016	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED LIGHTING PLAN ILLINOIS ROUTE 132 AT US ROUTE 41			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346		LAKE	361	174
CONTRACT NO. 60K80				
ILLINOIS FED. AID PROJECT				



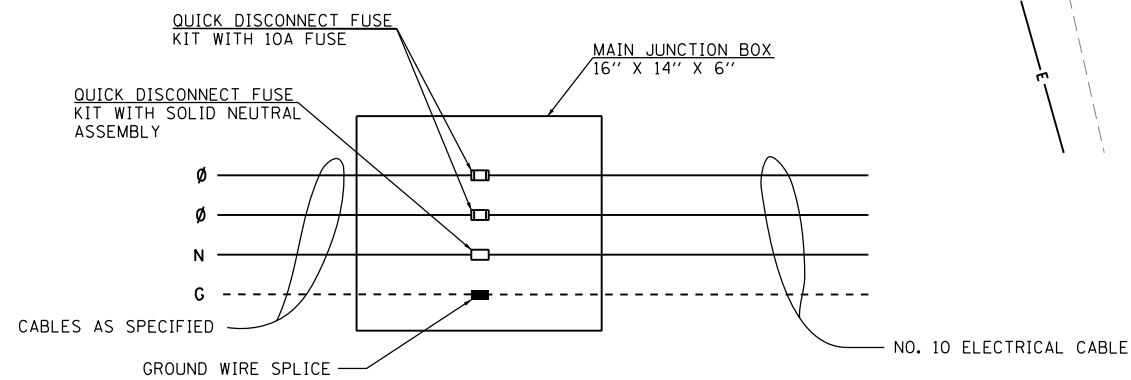
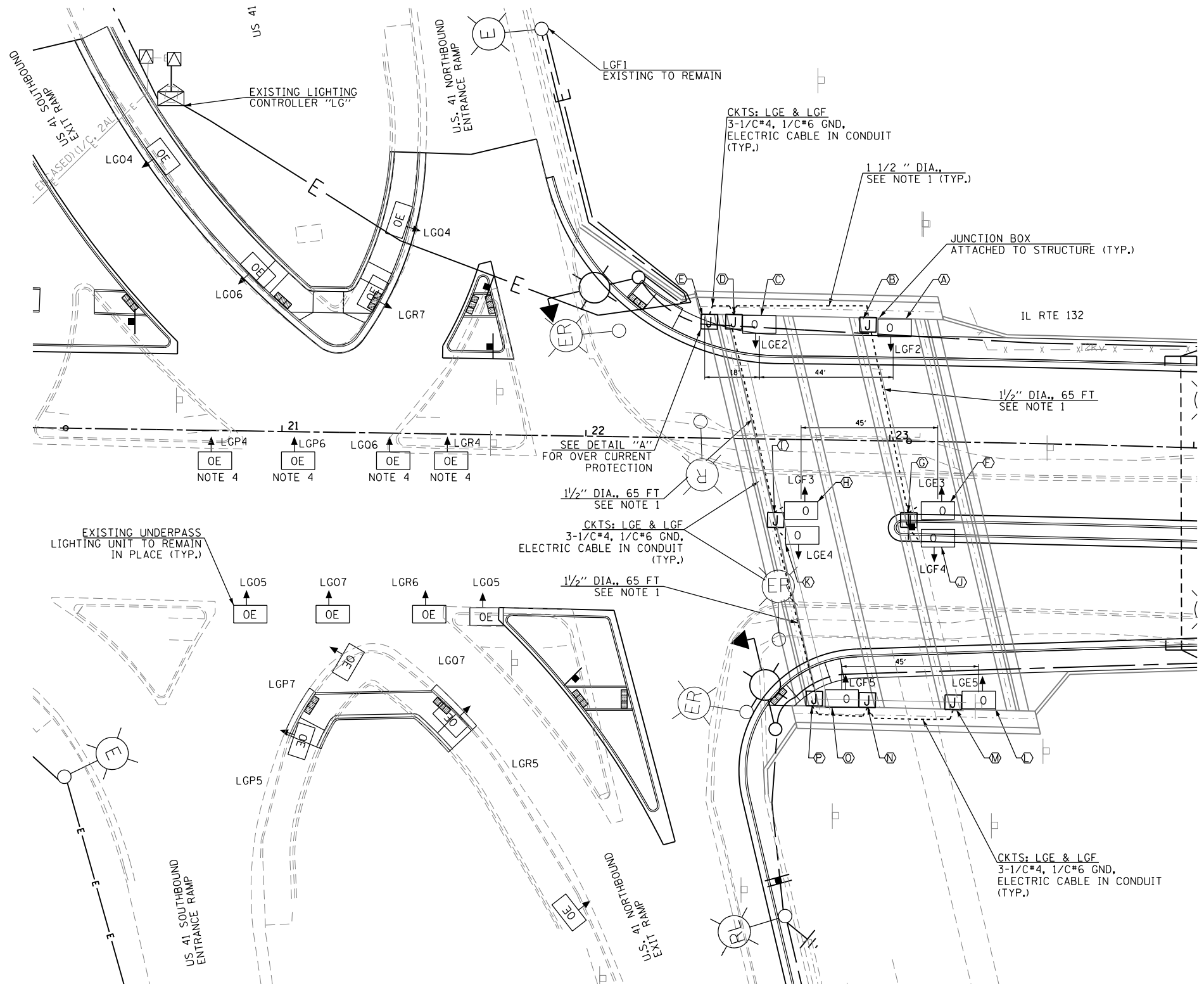
NOTES:

1. 1 1/2" DIA., PVC COATED GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE.
2. LUMINAIRE SHALL BE INSTALLED FLUSH WITH BOTTOM OF BEAM.
3. MAIN JUNCTION BOX TO HAVE FUSE KIT AS SHOWN ON DETAIL "A".
4. THE EXISTING UNDERPASS LIGHTING UNIT SHALL BE REORIENTED 180°.

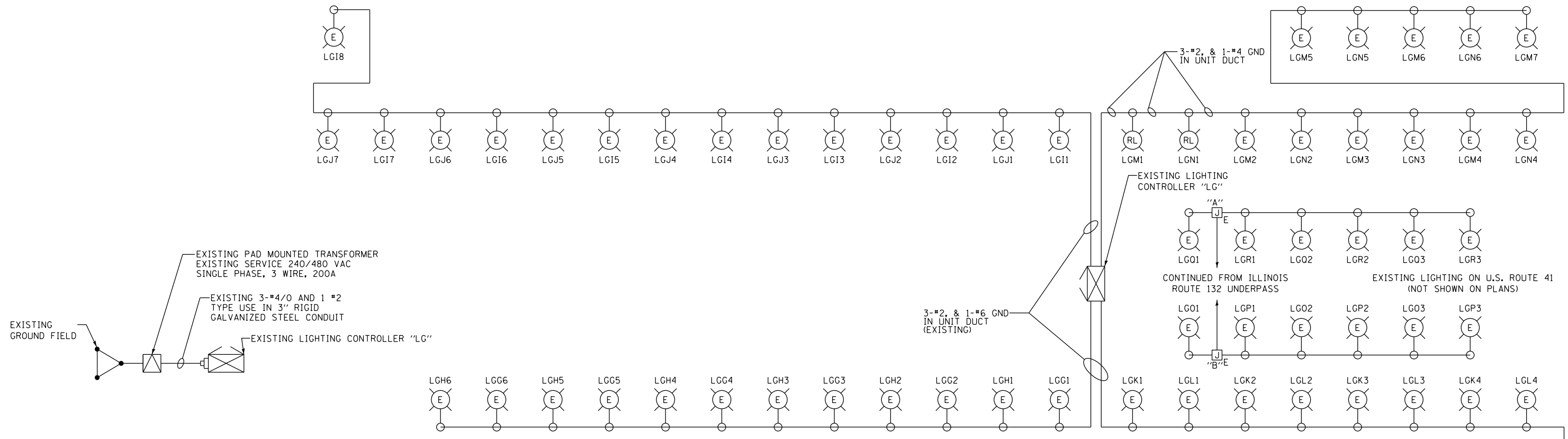
APPROXIMATE UNDERPASS EQUIPMENT LOCATIONS

TAG	STATION	CKT. NO.	OFFSET	DESCRIPTION
A	23+01	LGF2	40' LT	UNDERPASS LUMINAIRE
B	22+99	-	40' LT	JUNCTION BOX - 6"X6"X4"
C	22+56	LGE2	40' LT	UNDERPASS LUMINAIRE
D	22+53	-	40' LT	JUNCTION BOX - 6"X6"X4"
E	22+40	-	40' LT	JUNCTION BOX - 16"X14"X6"
F	23+16	LGE3	23' RT	UNDERPASS LUMINAIRE
G	23+12	-	26' RT	JUNCTION BOX - 16"X14"X6"
H	22+71	LGF3	23' RT	UNDERPASS LUMINAIRE
I	22+68	-	26' RT	JUNCTION BOX - 16"X14"X6"
J	23+16	LGF4	30' RT	UNDERPASS LUMINAIRE
K	22+71	LGE4	30' RT	UNDERPASS LUMINAIRE
L	23+30	LGE5	87' RT	UNDERPASS LUMINAIRE
M	23+32	-	87' RT	JUNCTION BOX - 6"X6"X4"
N	22+87	-	87' RT	JUNCTION BOX - 6"X6"X4"
O	22+85	LGF5	87' RT	UNDERPASS LUMINAIRE
P	22+75	-	87' RT	JUNCTION BOX - 16"X14"X6"

NOTE: ALL STATIONS AND OFFSETS ARE FROM C IL RTE 132.



UNDERPASS LIGHTING PLAN
SCALE: 1"=20'



LOAD TABULATION FOR LIGHTING CONTROLLER LG

CIRCUIT	POLE NUMBER	PHASE 1 (BLACK) AMP	PHASE 2 (RED) AMP	BREAKER SIZE	REMARKS
A	-	-	-	-	-
B	-	-	-	-	-
C	1-5	10A	-	20A	-
D	1-5	-	10A	20A	-
E	1-9	12A	-	20A	-
F	1-9	-	12A	20A	-
G	1-6	9.9A	-	20A	-
H	1-6	-	9.9A	20A	-
I	1-8	13.32A	-	20A	-
J	1-7	-	11.66A	20A	-
K	1-7	11.65A	-	20A	-
L	1-6	-	9.9A	20A	-
M	1-7	11.65A	-	20A	-
N	1-6	-	9.9A	20A	-
O	1-7	6.17A	-	20A	-
P	1-7	-	6.17A	20A	-
Q	1-7	6.17A	-	20A	-
R	1-7	-	6.17A	20A	-
SUB-TOTAL		80.86A	85.6A		
TOTAL		166.5A			

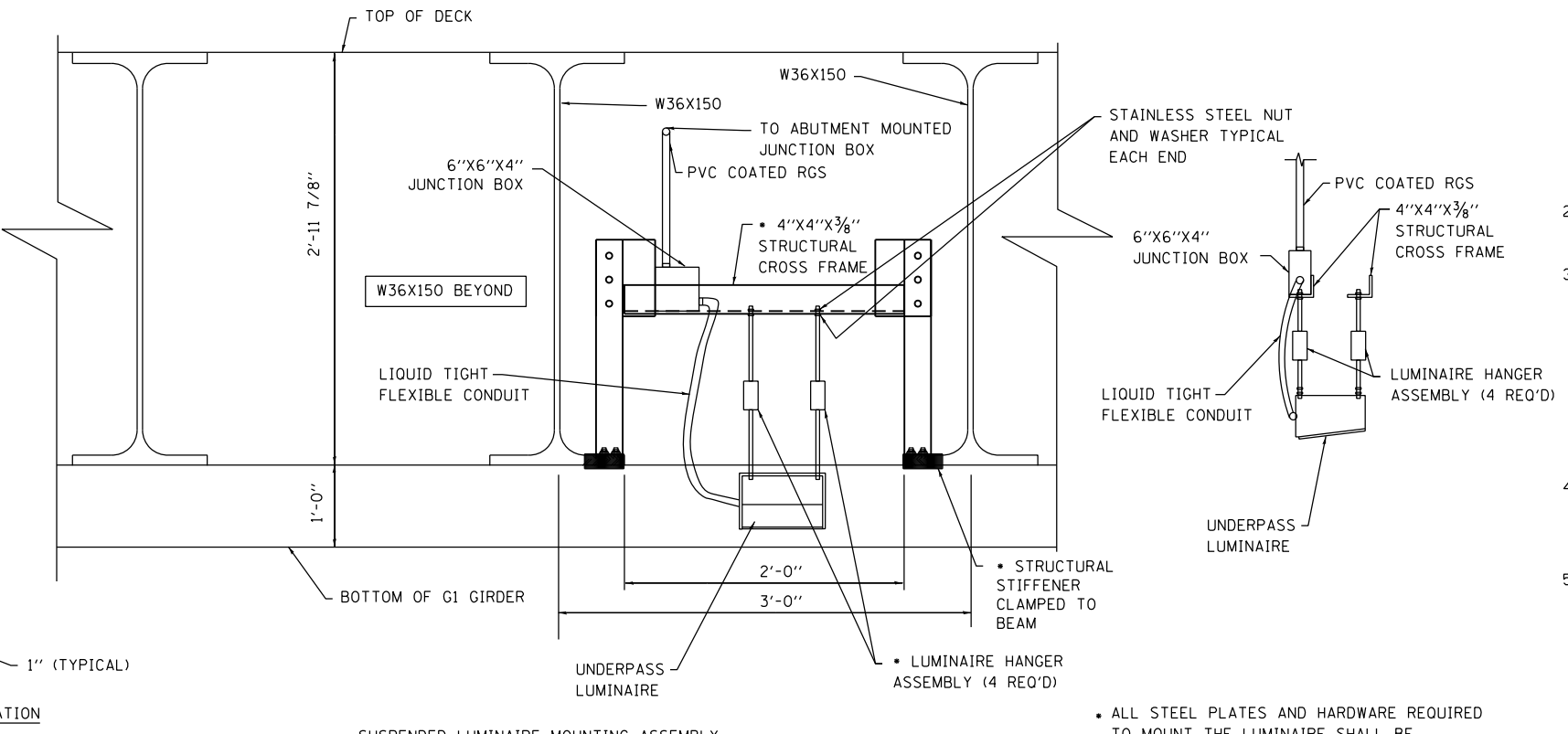
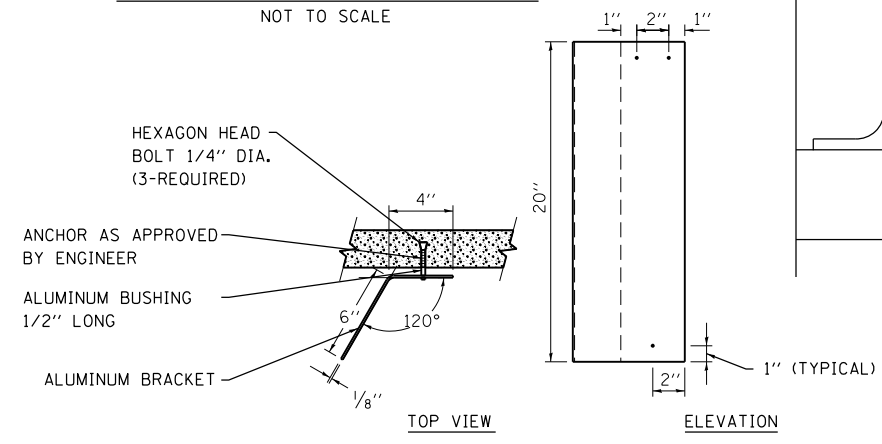
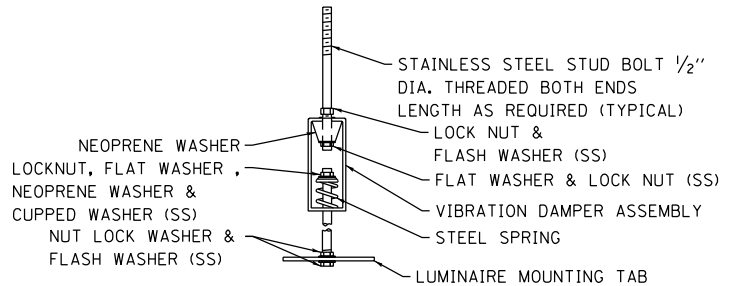
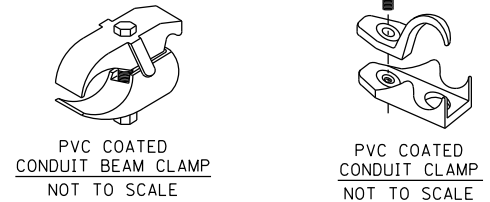
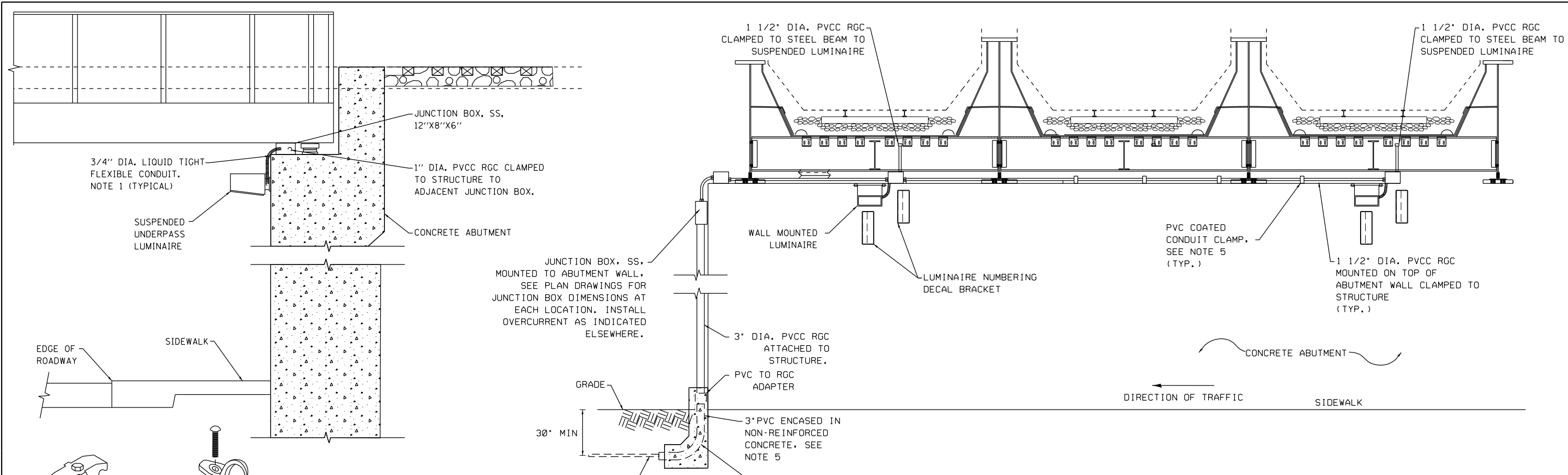
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	PLOT DATE = 1/22/2016	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LIGHTING CONTROLLER "LG"
WIRING DIAGRAM (LOWER LEVEL)
ILLINOIS ROUTE 132 AT US ROUTE 41**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346		LAKE	361	176
CONTRACT NO. 60K80				
ILLINOIS FED. AID PROJECT				

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



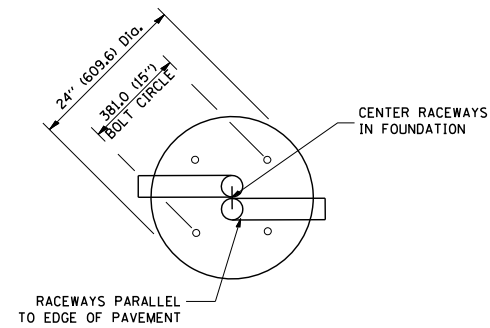
ALL STEEL PLATES AND HARDWARE REQUIRED TO MOUNT THE LUMINAIRE SHALL BE INCLUDED IN THE COST OF THE LUMINAIRE.

- NOTES:**
- LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0". TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT 3/4" DIA. CONDUIT AND 3/4" DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE COST OF UNDERPASS LUMINAIRE INSTALLATION.
 - SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATIONS OF UNDERPASS LIGHTING LUMINAIRES.
 - THE CONTRACTOR SHALL USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN SUSPENDED MOUNTING AN UNDERPASS LUMINAIRE TO A NEW BRIDGE DECK. THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING THE INSERT LOCATIONS FOR MOUNTING THE UNDERPASS LIGHTING SYSTEM AS SHOWN ON THE PLANS WITH THE BRIDGE DECK CONTRACTOR. SEE DETAIL.
 - THE UNDERPASS LUMINAIRE HANGER ASSEMBLY COMPLETE WITH HEAVY DUTY ANCHORS/INSERTS AND ALL APPLICABLE HARDWARE SHALL BE INCLUDED IN THE COST OF THE UNDERPASS LUMINAIRE PAY ITEM.
 - SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED* PAY ITEM.

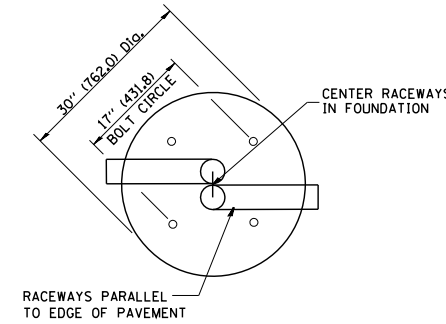
FILE NAME = K:\PROJECTS\Projects 2010\US 41 IL 132	USER NAME = sUSERs	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	UNDERPASS LUMINAIRE INSTALLATION DETAILS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	HOH\Lighting\01IL132-shr-light.7.dgn	DRAWN -	REVISED -		346		LAKE	361	177				
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 60K80								
	PLOT DATE = 1/22/2016	DATE -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			

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

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



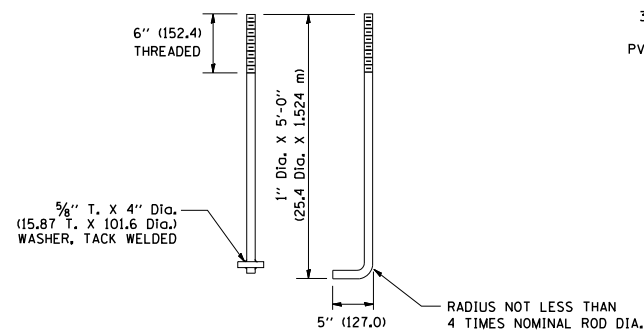
TOP VIEW



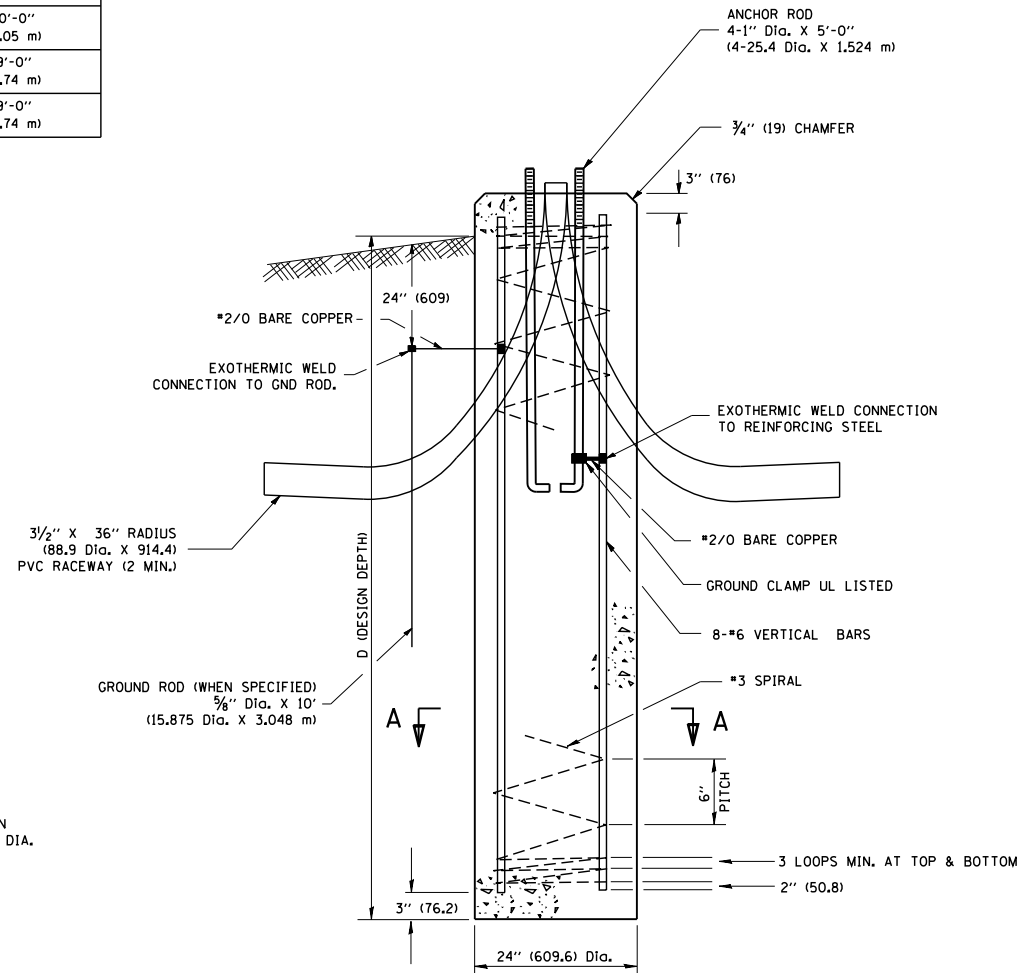
TOP VIEW

NOTES

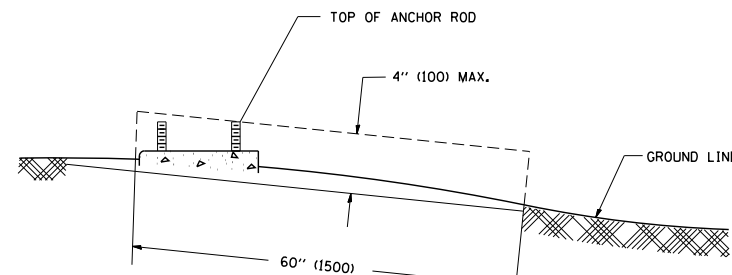
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, 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. (20 mm).
- THE CONCRETE SHALL BE CLASS SI. 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" (69.9 mm) 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" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) 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" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.



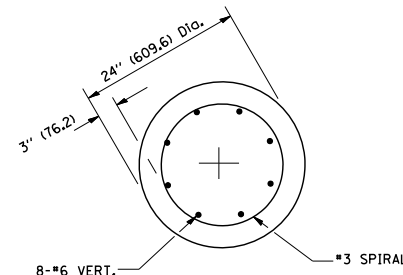
ANCHOR ROD DETAIL



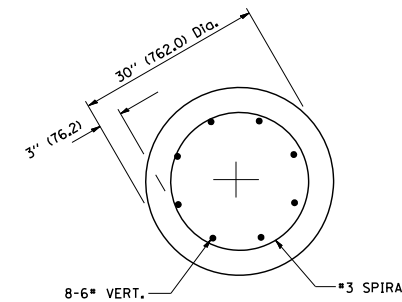
FOUNDATION DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A



SECTION A-A

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W:\diststd\22x34\be301.dgn

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PLOT DATE = 1/4/2008

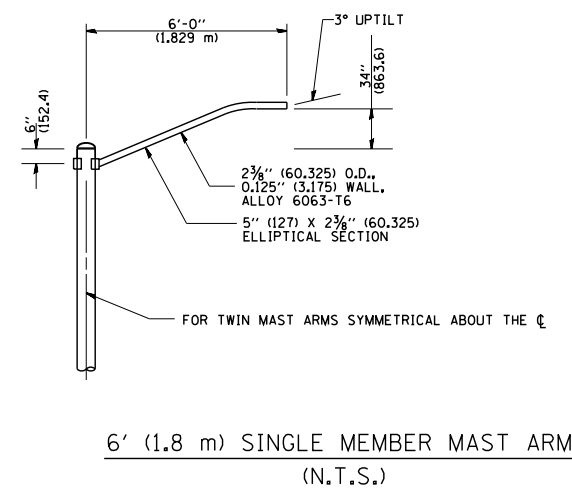
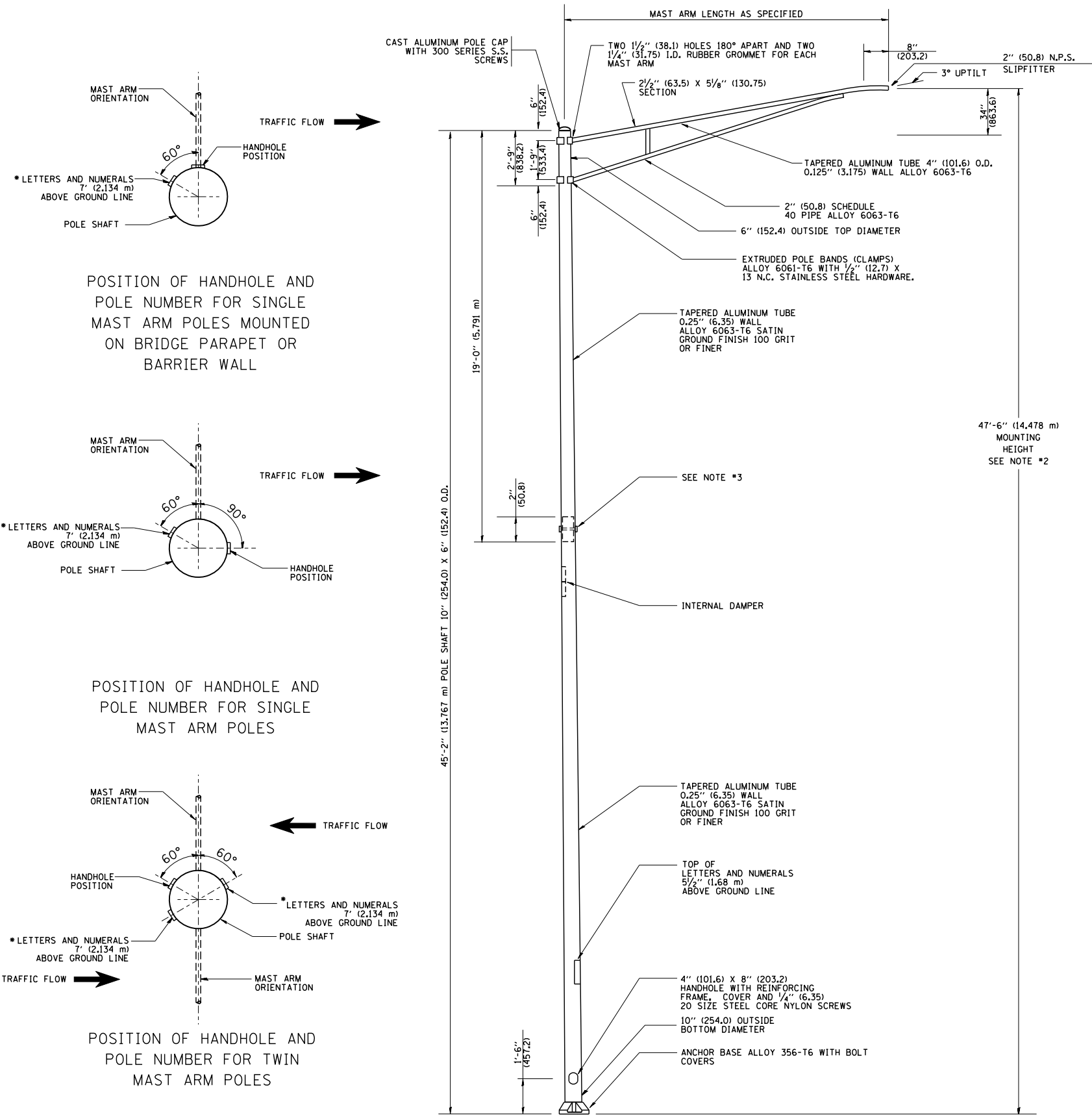
DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED - 04-22-02
REVISED -
REVISED -
REVISED -

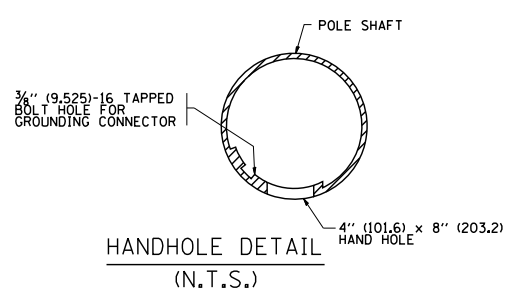
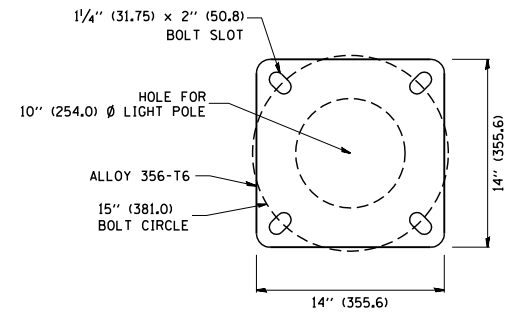
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION
40' (12.192 m) TO 47' 1/2' (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE
SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-301		361	178
FED. ROAD DIST. NO. 1		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.

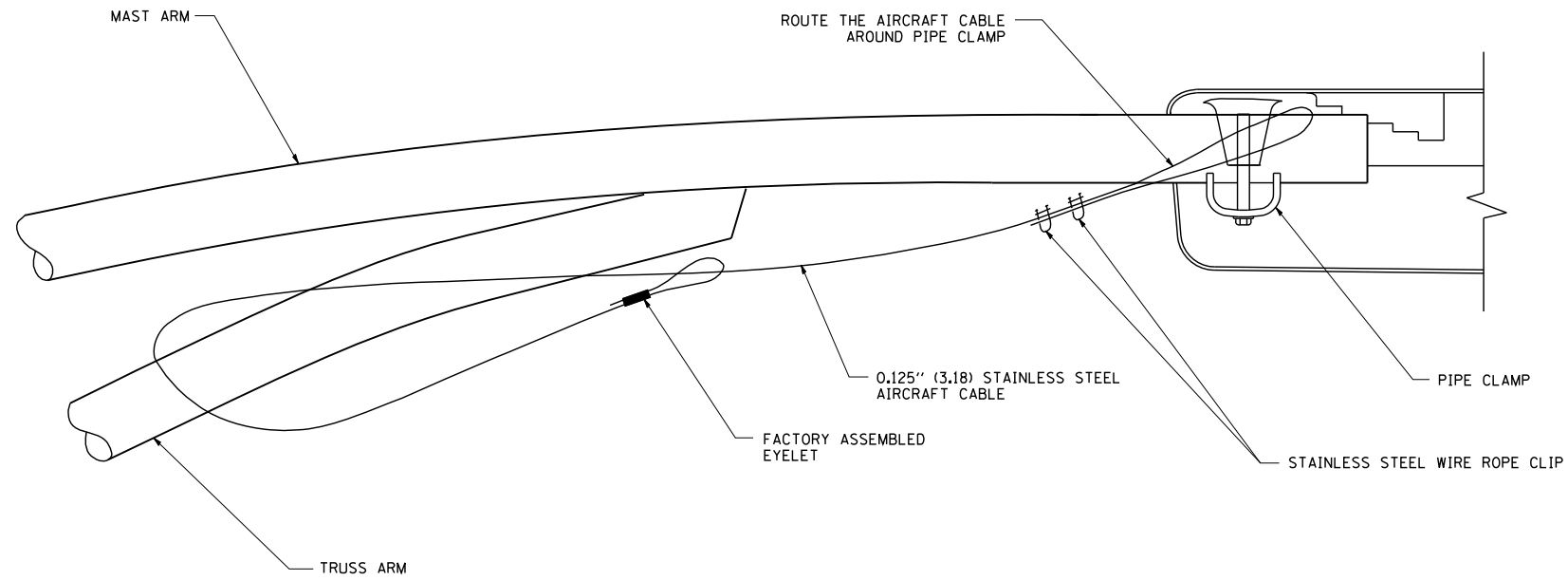


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	PLOT DATE = 1/4/2008	DATE -	REVISED -

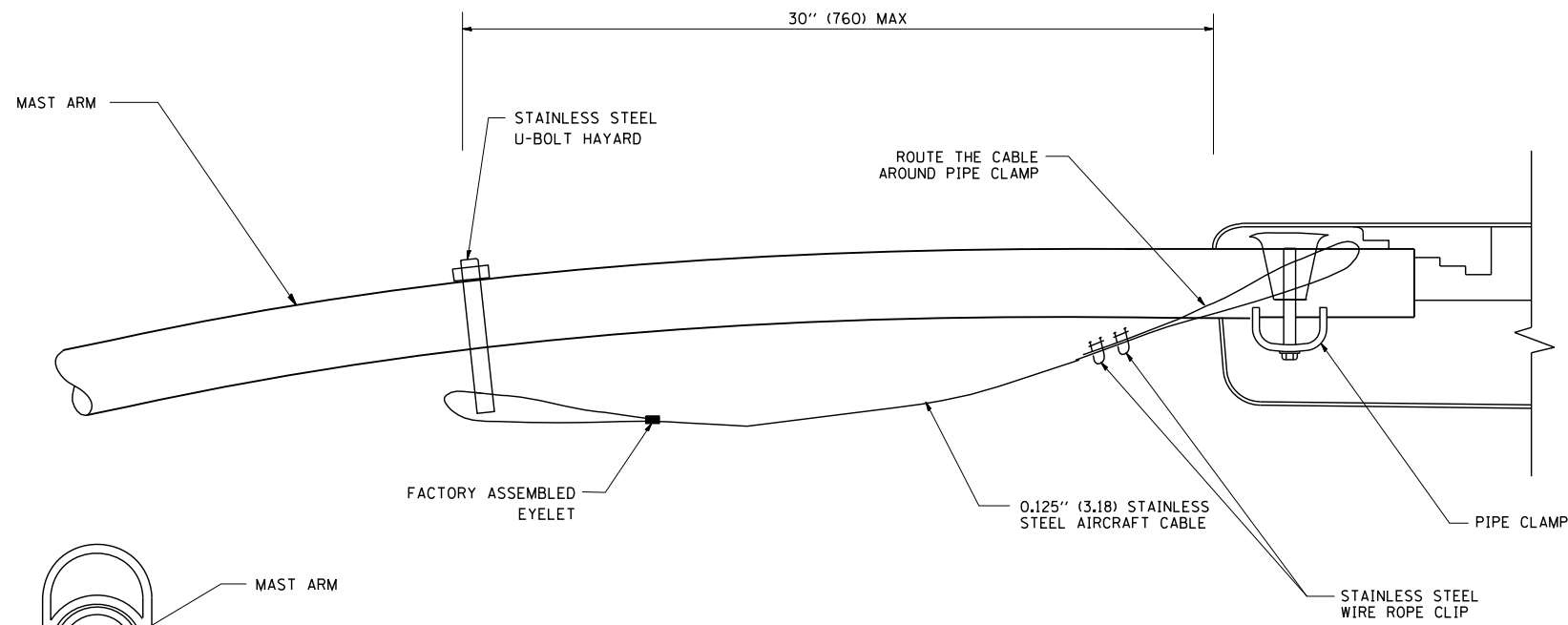
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ALUMINUM LIGHT POLE			
47'-6" (14.478 m) MOUNTING HEIGHT			
SCALE: NONE	SHEET NO. OF	SHEETS	STA. TO STA.

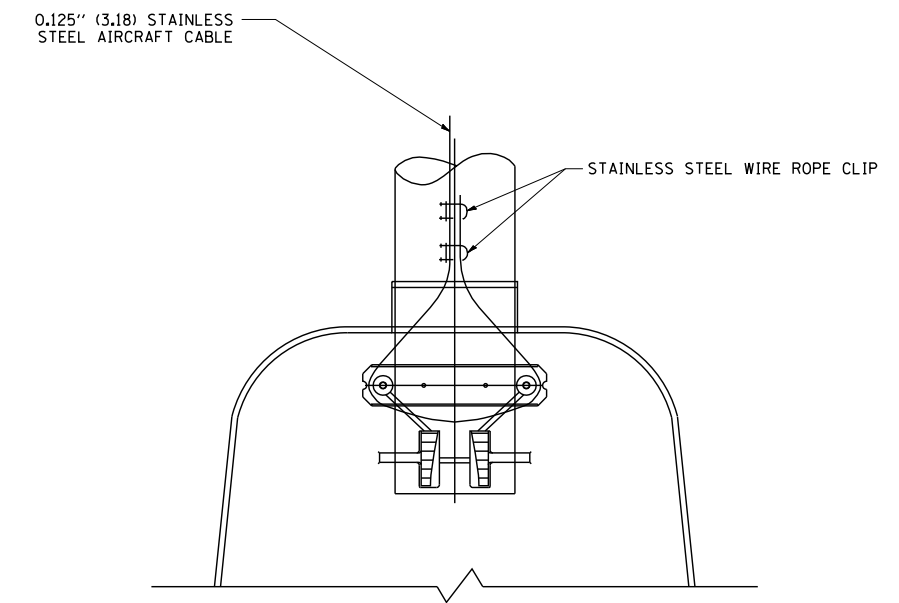
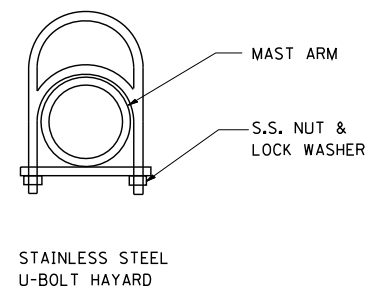
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-400		361	179
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



SIDE VIEW (TRUSS ARM)
N.T.S.



SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)
N.T.S.

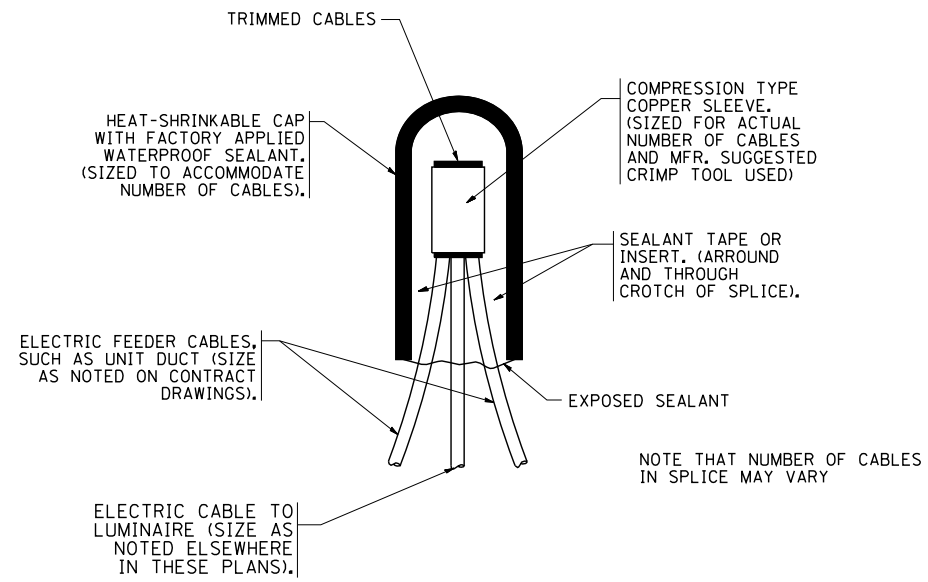


BOTTOM VIEW
N.T.S.

NOTES:

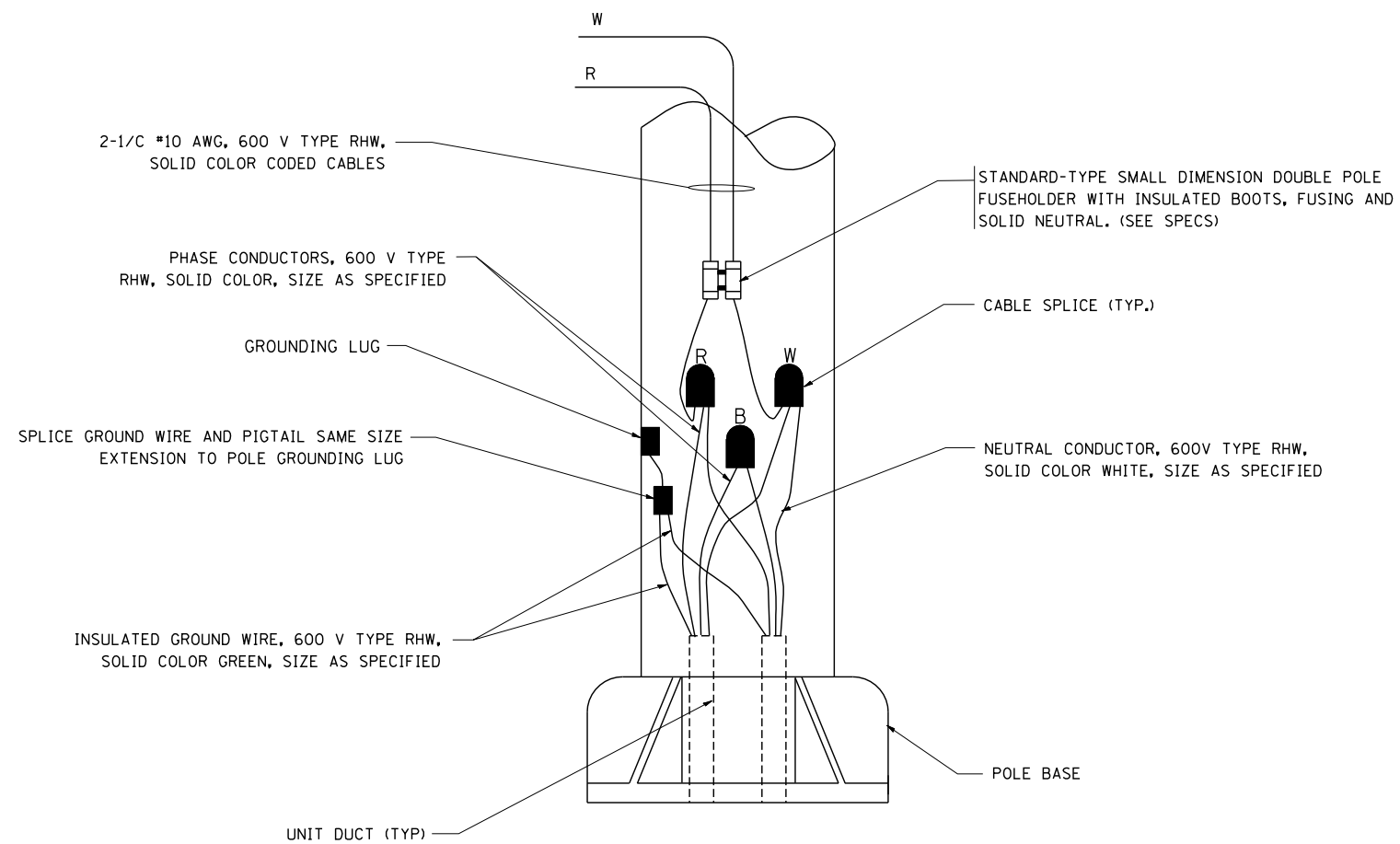
1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

FILE NAME = W:\diststd\22x34\be701.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LUMINAIRE SAFETY CABLE ASSEMBLY			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 1/4/2008	DATE -	CHECKED -	REVISED -		SCALE: NONE	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO.		
					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							



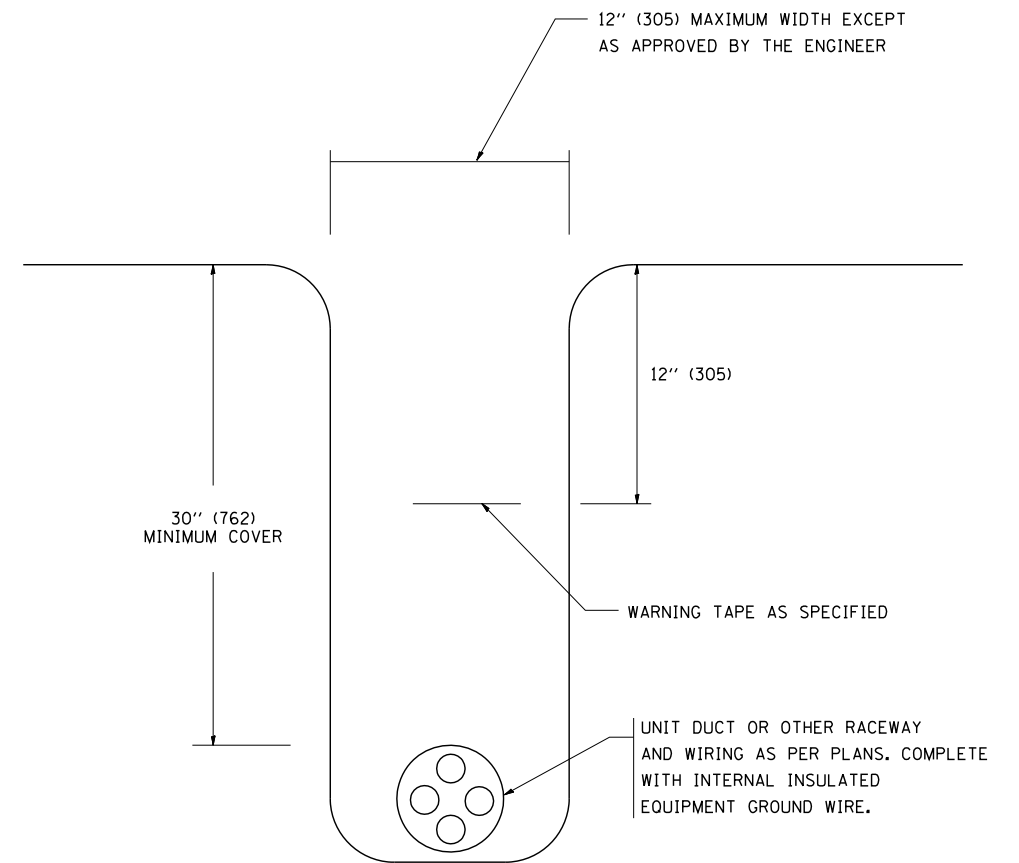
TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.

FILE NAME =
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USER NAME = gaglionobt
DESIGNED -
DRAWN -
PLOT SCALE = 50.000' / IN.
PLOT DATE = 1/4/2008

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DATE -

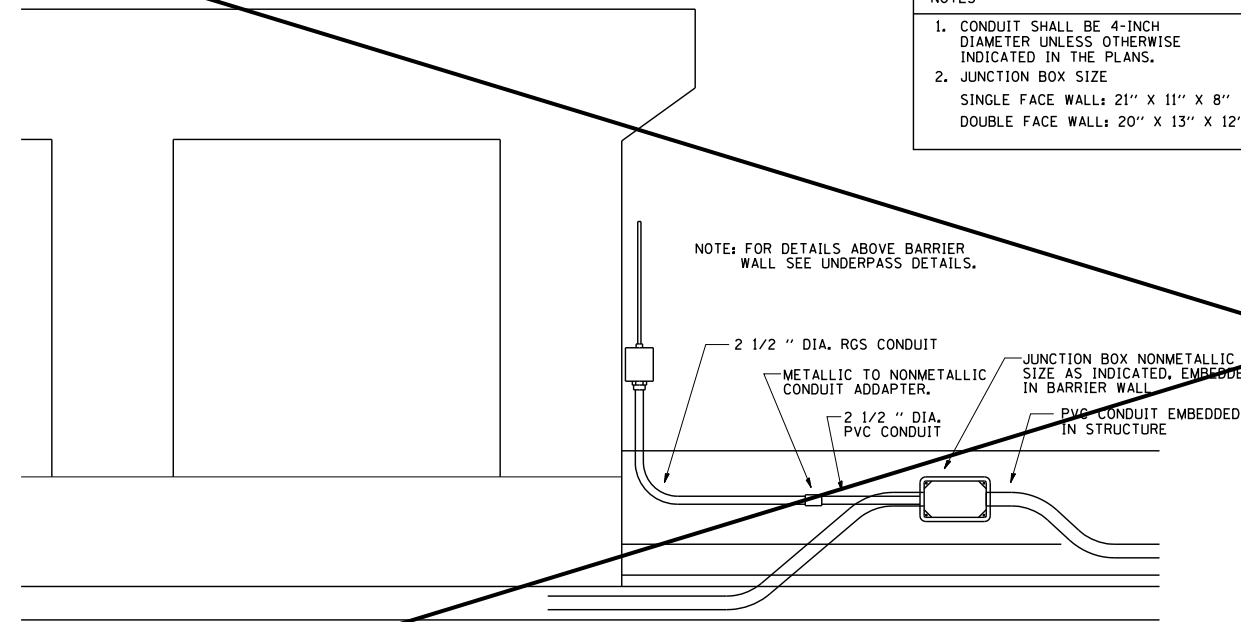
REVISED - 08-08-03
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MISC. ELECTRICAL DETAILS
SHEET A**

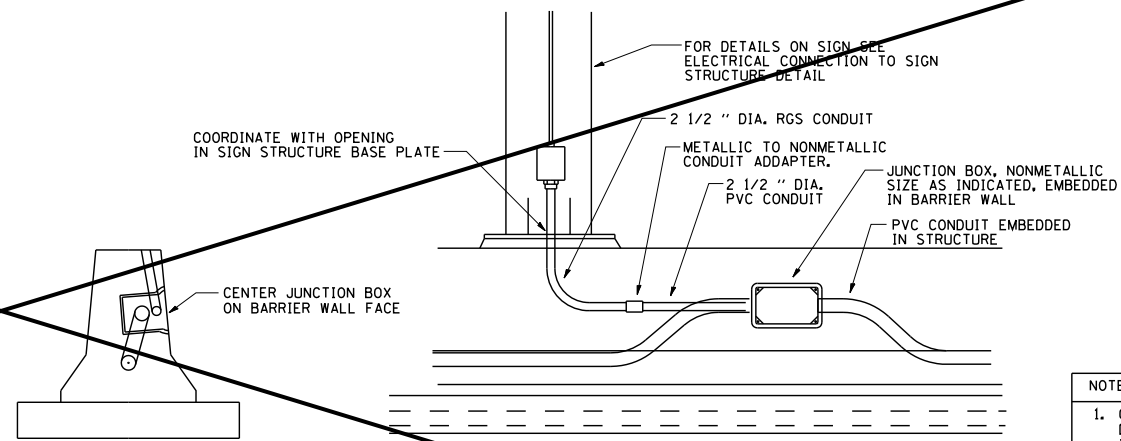
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-702		361	181
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO.	



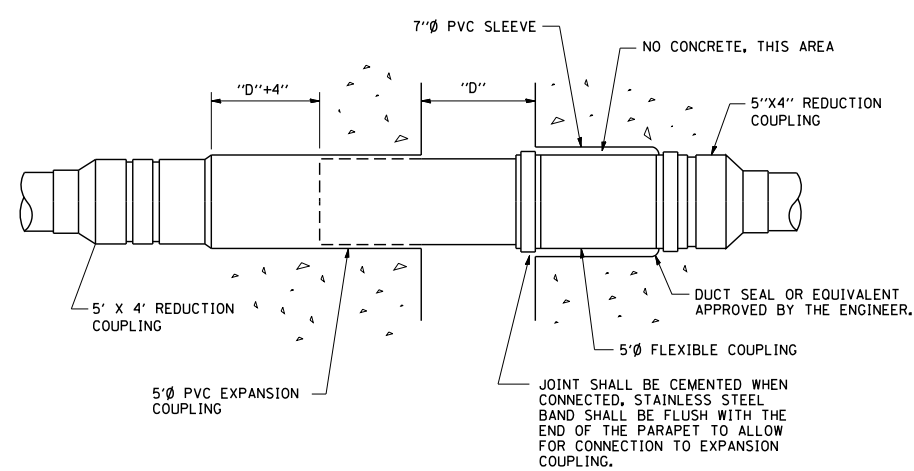
ED - BWD
ELECTRIC CONNECTION TO UNDERPASS LIGHTING

NOTES
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
2. JUNCTION BOX SIZE
SINGLE FACE WALL: 21" X 11" X 8"
DOUBLE FACE WALL: 20" X 13" X 12"

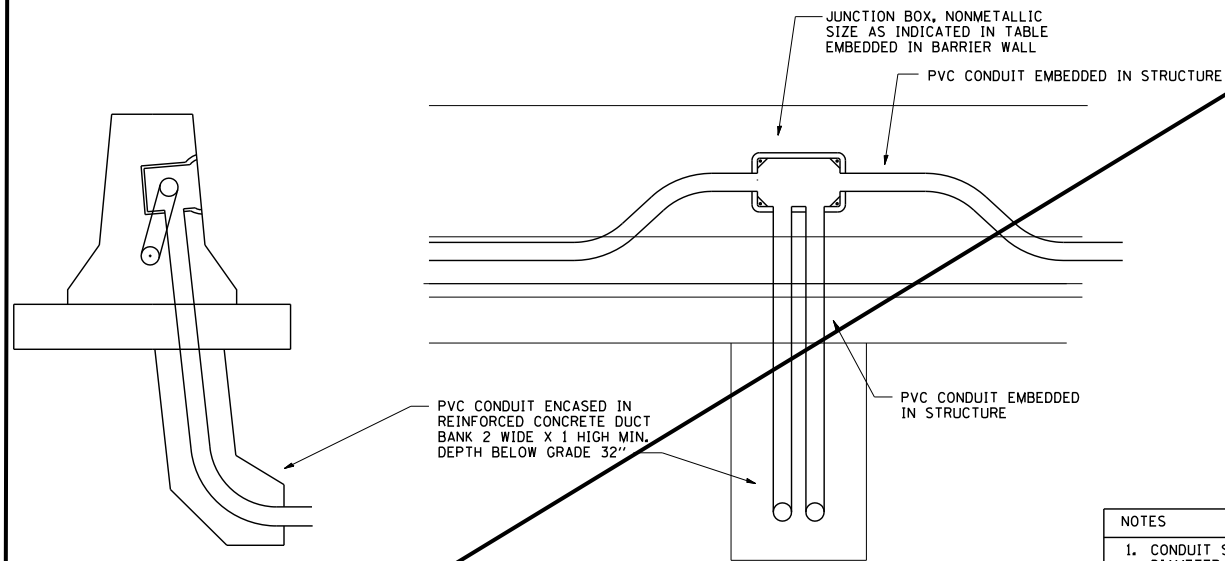


ED - SGN
JUNCTION BOX EMBEDDED IN BARRIER WALL FOR SIGN LIGHTING

NOTES
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
2. JUNCTION BOX SIZE
SINGLE FACE WALL: 21" X 11" X 8"
DOUBLE FACE WALL: 20" X 13" X 12"



INSTALLATION OF CONDUIT
IN BRIDGE PARAPET EXPANSION JOINT
(N.T.S.)



ED - BW
JUNCTION BOX EMBEDDED IN BARRIER WALL

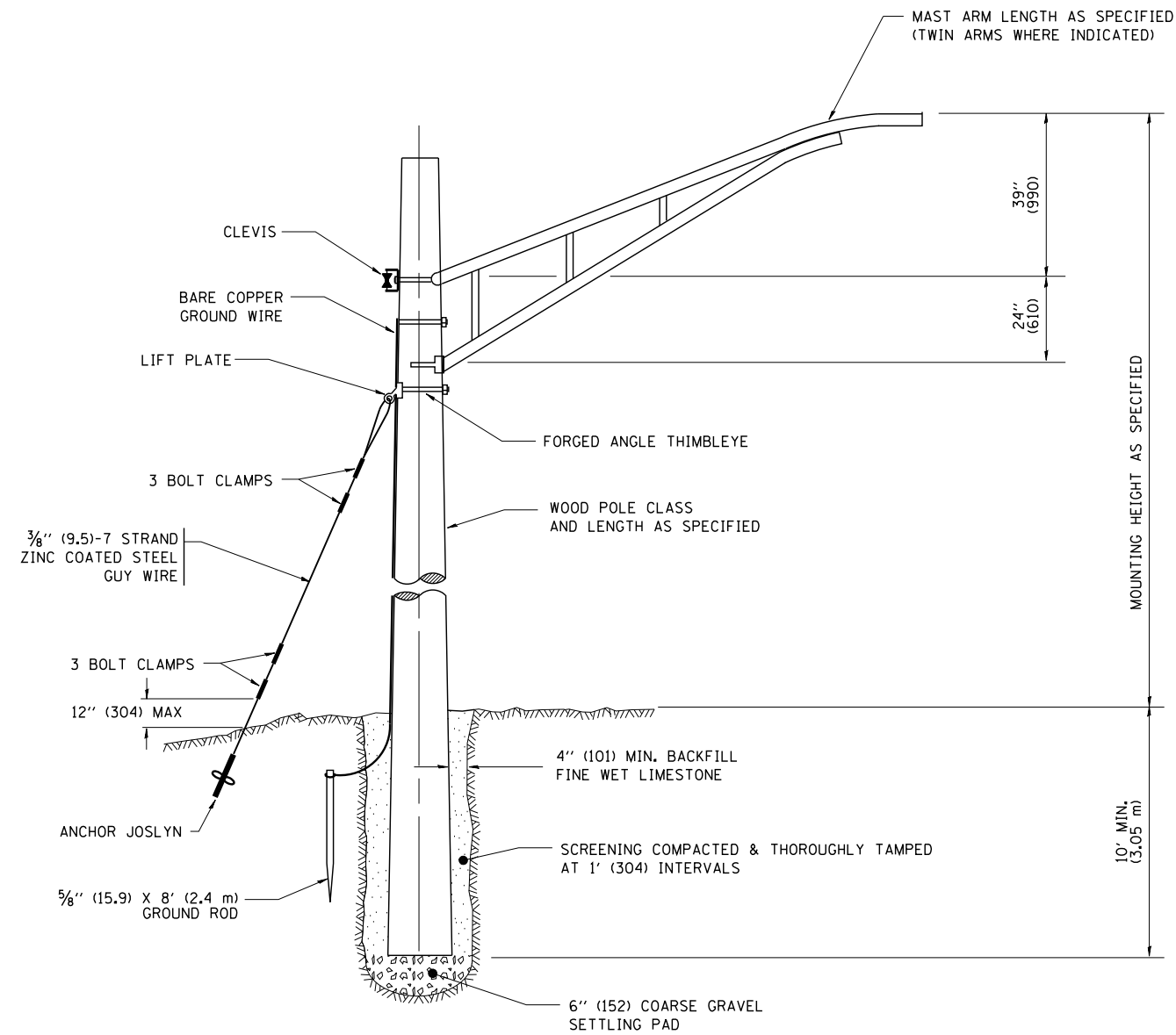
NOTES
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
2. JUNCTION BOX SIZE
SINGLE FACE WALL: 21" X 11" X 8"
DOUBLE FACE WALL: 20" X 13" X 12"

FILE NAME = be703.dgn	USER NAME = gaglianobt	DESIGNED - DRAWN -	REVISED - REVISED -
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISOR -	DATE - 01-20-2009
PLOT DATE = 2/5/2009	DATE - 01-20-2009	REVISOR -	DATE -

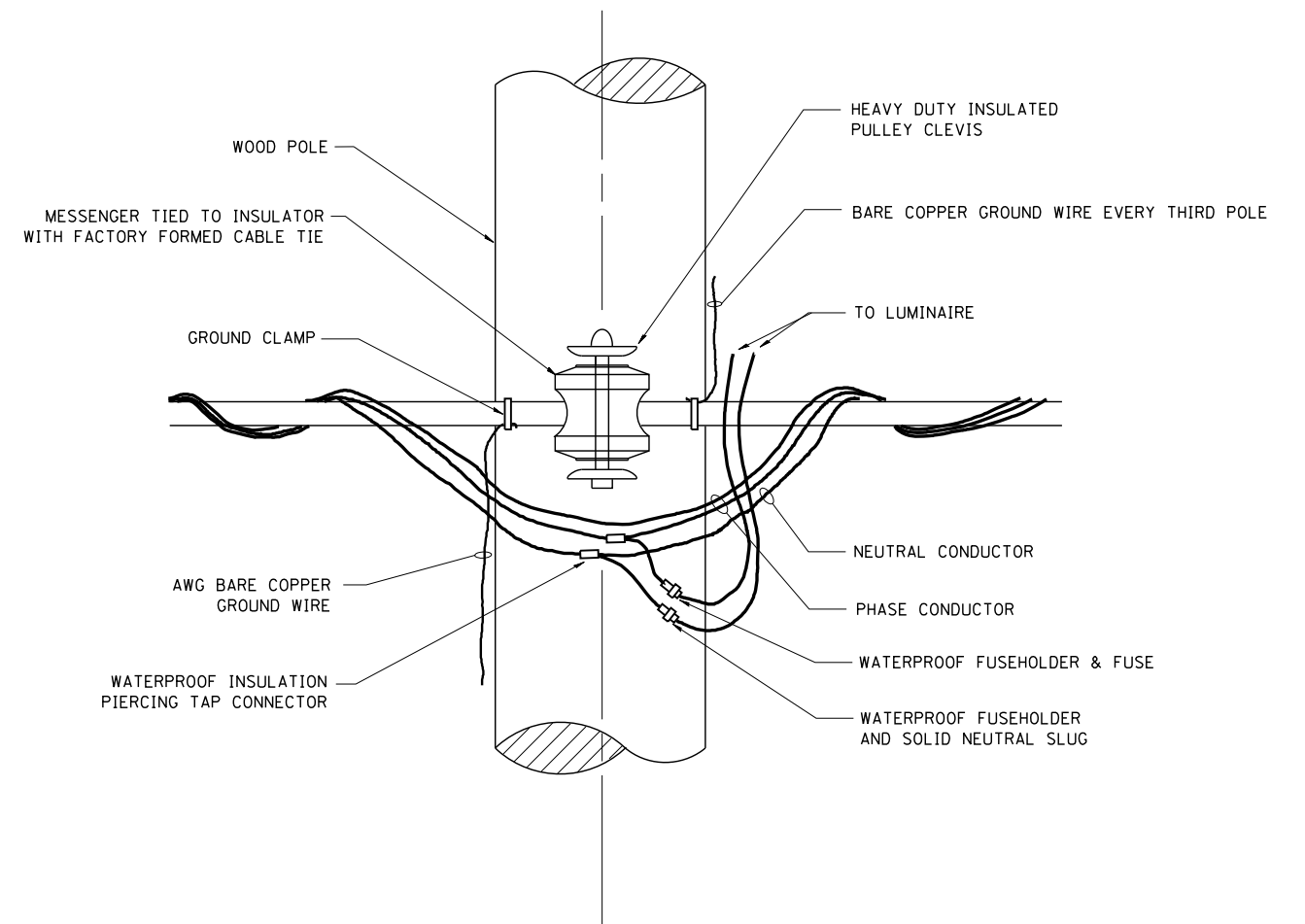
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS ELECTRICAL DETAILS, SHEET B			
J BOX EMBEDDED IN BARRIER WALL - INSTALLATION OF CONDUIT IN BRIDGE PARAPET EXPANSION JOINT - ELECTRIC CONNECTION TO UNDERPASS LIGHTING			
SCALE: NONE	SHEET NO. OF SHEETS	STA. TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-703		361	182
CONTRACT NO.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		



TEMPORARY LIGHT POLE DETAIL

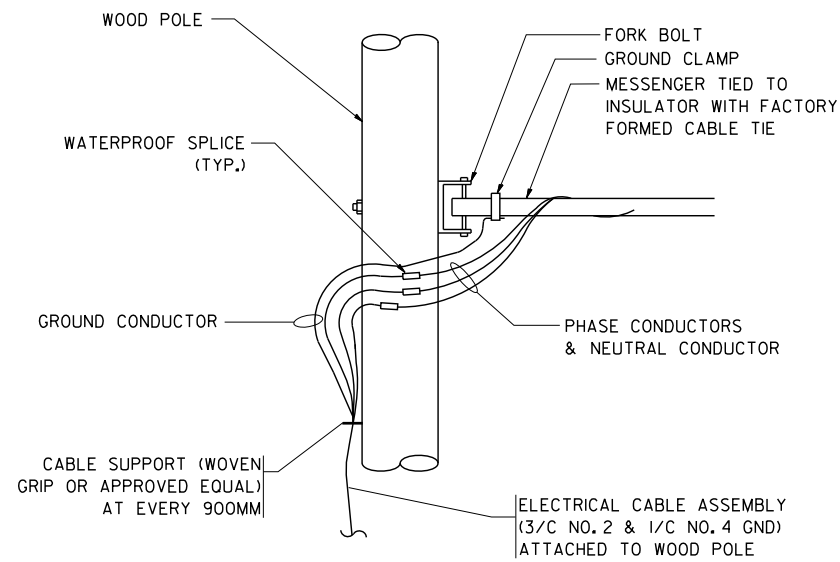


TEMPORARY LIGHT POLE ATTACHMENT DETAIL

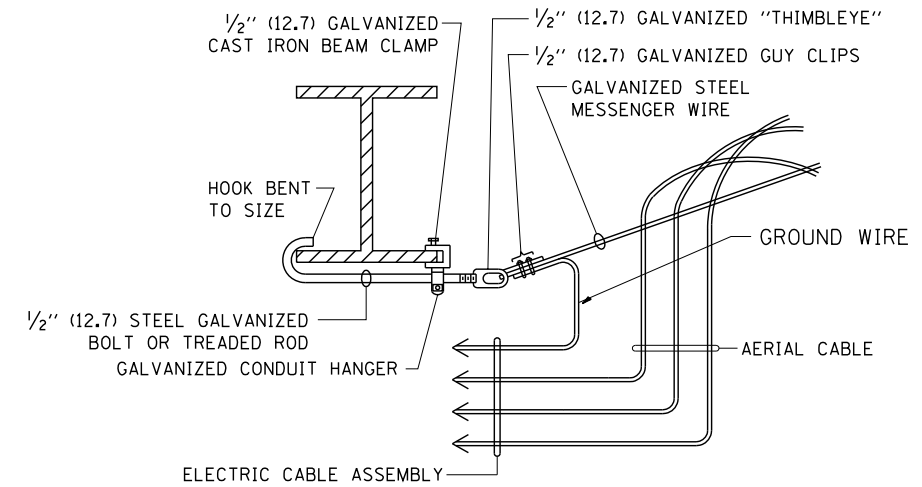
NOTES:

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. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED -		SCALE: NONE	SHEET NO.	OF SHEETS	STA.	TO STA.	BE-800	CONTRACT NO.	361	183
PLOT DATE = 1/4/2008	DATE -	CHECKED -	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT									



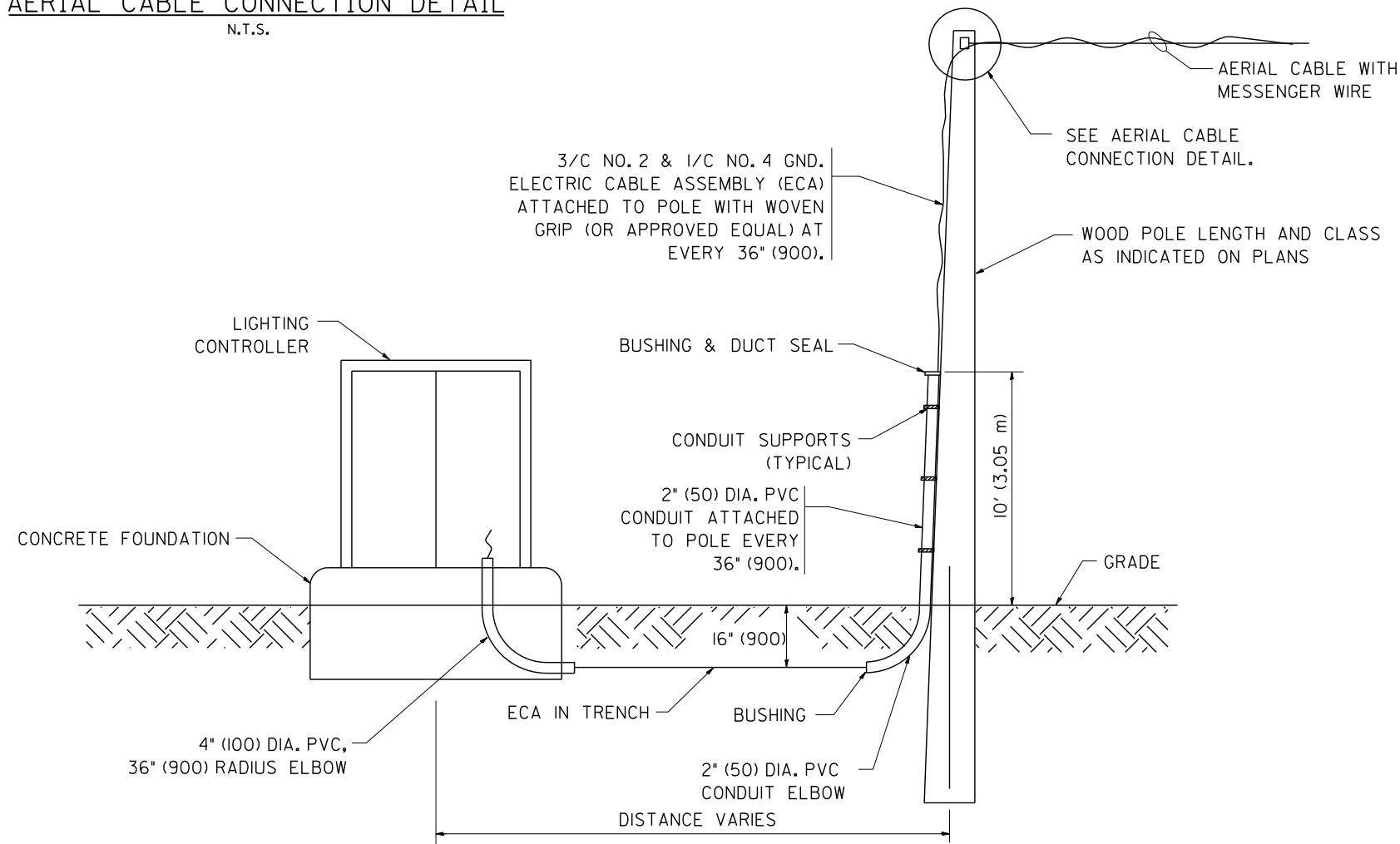
AERIAL CABLE CONNECTION DETAIL
N.T.S.



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.

FILE NAME = W:\diststd\22x34\be001.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY AERIAL CABLE INSTALLATION			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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										BE-001 CONTRACT NO.		

BENCH MARK:

TMB "A" - Elev. 696.20, NW Bolt of Old billboard Foundation +/- 50 ft.
South of Rte. 132 C.L. and +/- 50 ft. West of Pine Grove Ave.

EXISTING STRUCTURE: None

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design, 6th Edition

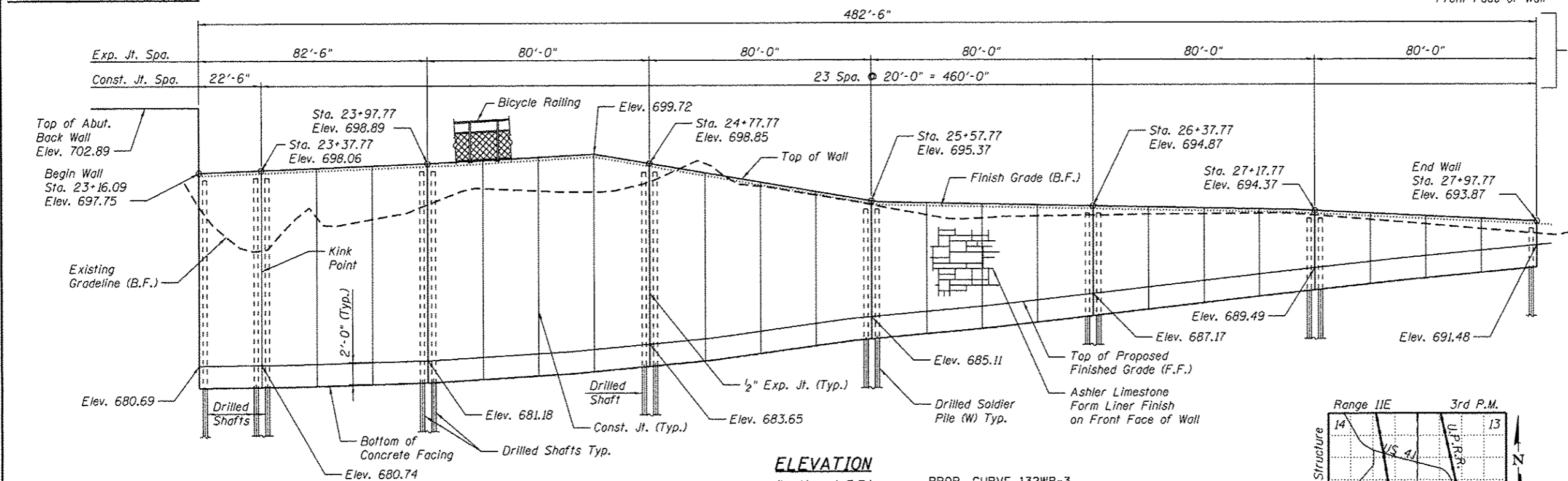
DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 36,000 psi (Structural Steel M270 Grade 36)

SEISMIC DATA

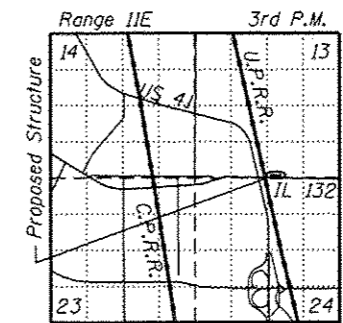
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.054g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.092g
Soil Site Class = C



ELEVATION

(Looking at F.F.)

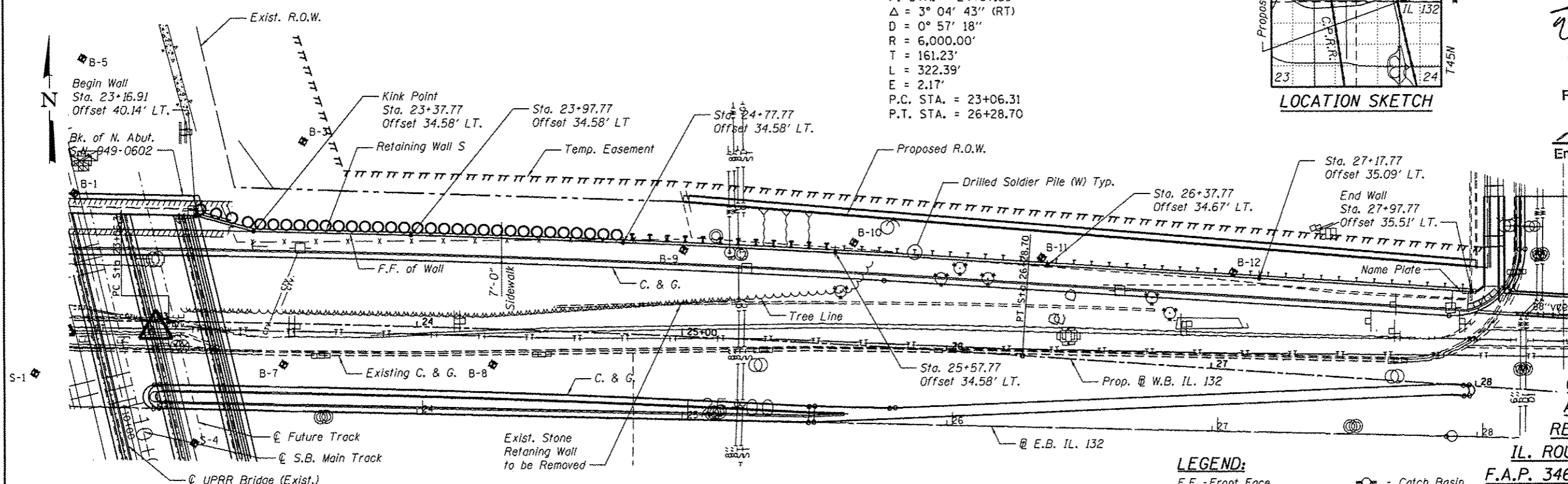
PROP. CURVE 132WB-3
PI STA. = 24+67.55
Δ = 3° 04' 43" (RT)
D = 0° 57' 18"
R = 6,000.00'
T = 161.23'
L = 322.39'
E = 2.17'
P.C. STA. = 23+06.31
P.T. STA. = 26+28.70



LOCATION SKETCH

DAVID N. BLOW
11003186
LICENSED
STRUCTURAL
ENGINEER
OF
ILLINOIS

David N. Blow
DATE: 6/21/16
LICENSE EXPIRES 11/30/16
APPROVED
For Structural Adequacy Only
Dr. Carl Krueger
Engineer of Bridges & Structures



PLAN

NOTE:

1. Offsets are given from Baseline W.B. IL. 132 to F.F. of Wall.

LEGEND:

- F.F. - Front Face
- B.F. - Back Face
- B-1 - Borehole B-1
- Tree
- Bush
- Evegreen Tree
- Manhole
- Catch Basin
- Power Pole
- Hand Hole
- Fire Hydrant
- Traffic Signal
- Light Pole
- Sign

GENERAL PLAN AND ELEVATION
RETAINING WALL S
IL. ROUTE 132 (GRAND AVE.)
F.A.P. 346 - SEC. 125X-N&J-SB-B
LAKE COUNTY
STATION 23+16.09 TO
STATION 27+97.77
STRUCTURE NO. 049-W047

FILE NAME = ...049W047-00K00-001.dgn	USER NAME = eafitzpatrick	DESIGNED - MMH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 132 W.B. RETAINING WALL S GENERAL PLAN	F.A.P. R.T.E. 346	SECTION 125X-N&J-SB-B	COUNTY LAKE	TOTAL SHEETS 361	SHEET NO. 185	
HOH	PLOT SCALE = 42.6667' / in.	CHECKED - DNB	REVISED -			SHEET NO. 1 OF 18 SHEETS					
3366	PLOT DATE = 18/7/2016	DRAWN - R.VEJAR	REVISED -			ILLINOIS FED. AID PROJECT					
		CHECKED - BCS	REVISED -								

INDEX OF SHEETS:

1. General Plan & Elevation
2. General Notes, Index of Drawings & Total Bill of Material
3. Wall Plan & Elevation
Sta. 23+16.09 to Sta. 23+97.77
4. Wall Plan & Elevation
Sta. 23+97.77 to Sta. 24+77.77
5. Wall Plan & Elevation
Sta. 24+77.77 to Sta. 25+57.77
6. Wall Plan & Elevation
Sta. 25+57.77 to Sta. 26+37.77
7. Wall Plan & Elevation
Sta. 26+37.77 to Sta. 27+17.77
8. Wall Plan & Elevation
Sta. 27+17.77 to Sta. 27+97.77
9. Drilled Shaft & Pile Summary
10. Reinforcing Details
11. Wall Sections & Details - Sheet 1
12. Wall Sections & Details - Sheet 2
13. Bicycle Railing - Post Locations
14. Bicycle Railing Details
15. Soil Boring Logs - Sheet 1
16. Soil Boring Logs - Sheet 2
17. Soil Boring Logs - Sheet 3
18. Soil Boring Logs - Sheet 4

GENERAL NOTES:

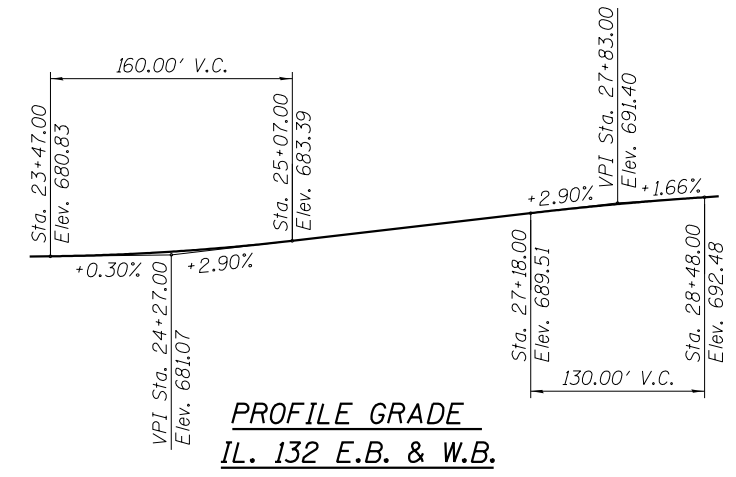
1. Wall stations and offsets are given to the front face of the concrete facing, and are measured from W.B. IL 132 Baseline.
2. Existing utilities in conflict with soldier pile wall construction shall be abandoned or relocated according to direction given in roadway plans
3. Reinforcement Bars designated (E) shall be Epoxy Coated.
4. All exposed concrete edges shall be chamfered 3/4" except as noted.
5. Steel piling shall be according to AASHTO M270, Grade 50.
6. No field welding is permitted except as specified in the contract documents.

TOTAL BILL OF MATERIAL

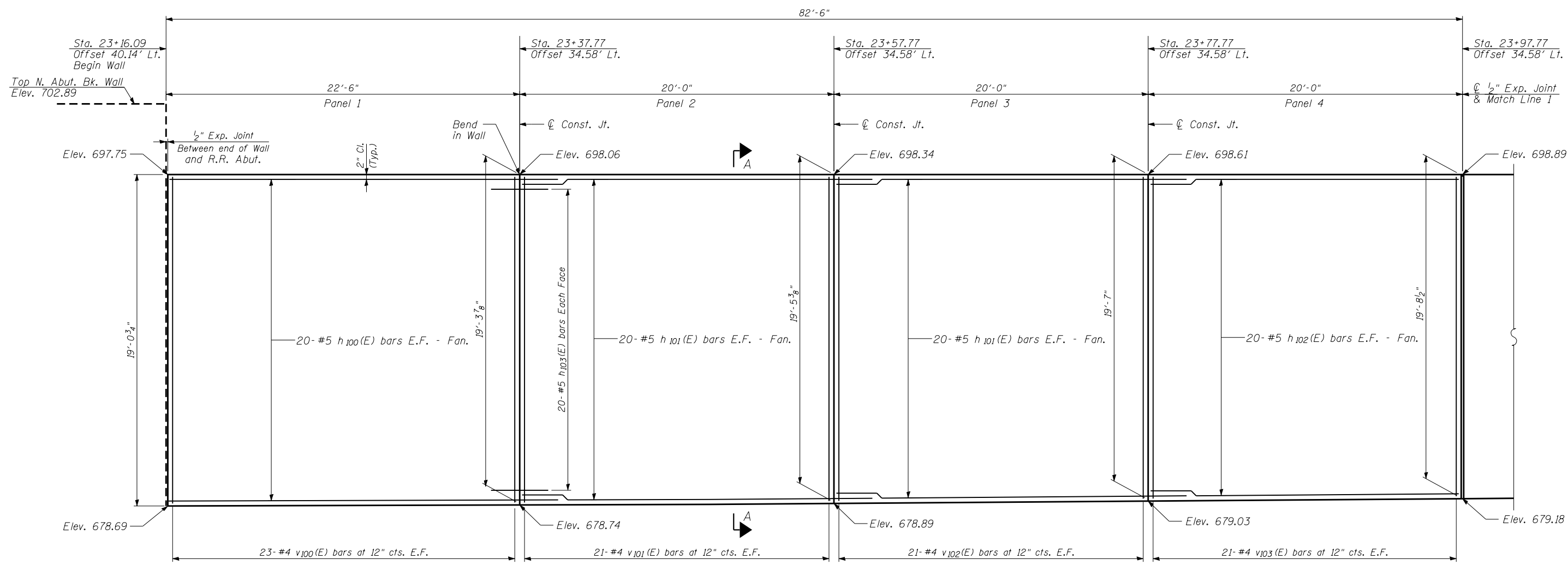
ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	815
Concrete Structures	Cu. Yd.	233
Stud Shear Connectors	Each	464
Untreated Timber Lagging	Sq. Ft.	6,300
Furnishing Soldier Piles (W Section)	Foot	1,242
Reinforcement Bars	Pound	240,817
Reinforcement Bars, Epoxy Coated	Pound	35,840
Drilled Shaft in Soil	Cu. Yd.	670
Geocomposite Wall Drain	Sq. Yd.	700
Pipe Underdrains for Structures, 4"	Foot	500
Drilling and Setting Soldier Piles (in Soil)	Cu. Ft.	9,650
Bicycle Railing	Foot	478
Name Plates	Each	1
Form Line Textured Surface	Sq. Ft.	6,300
Furnish and Place Sandfill	Cu. Yd.	1269
Staining Concrete Structure	Sq. Ft.	6300

STATION
23+16.09 to 27+97.77
W.B. IL 132
BUILT 20-- BY
STATE OF ILLINOIS
STRUCTURE NO. 049-W047

NAME PLATE
See Std. 515001

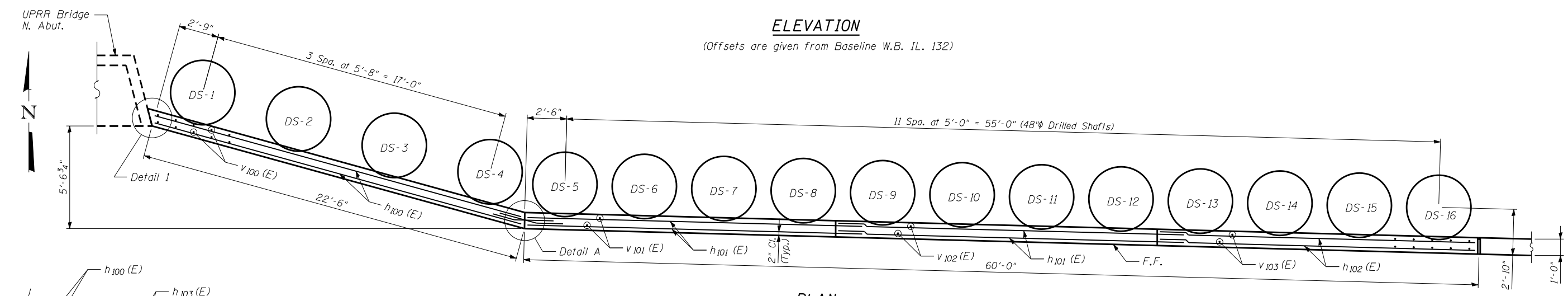


PROFILE GRADE
IL. 132 E.B. & W.B.

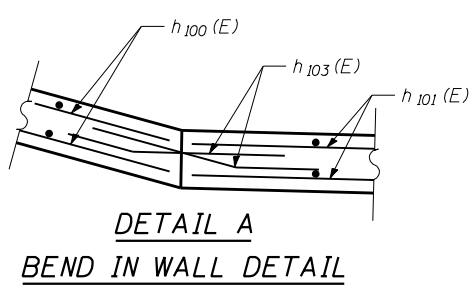


ELEVATION

(Offsets are given from Baseline W.B. IL. 132)



**PLAN
TANGENT WALL**

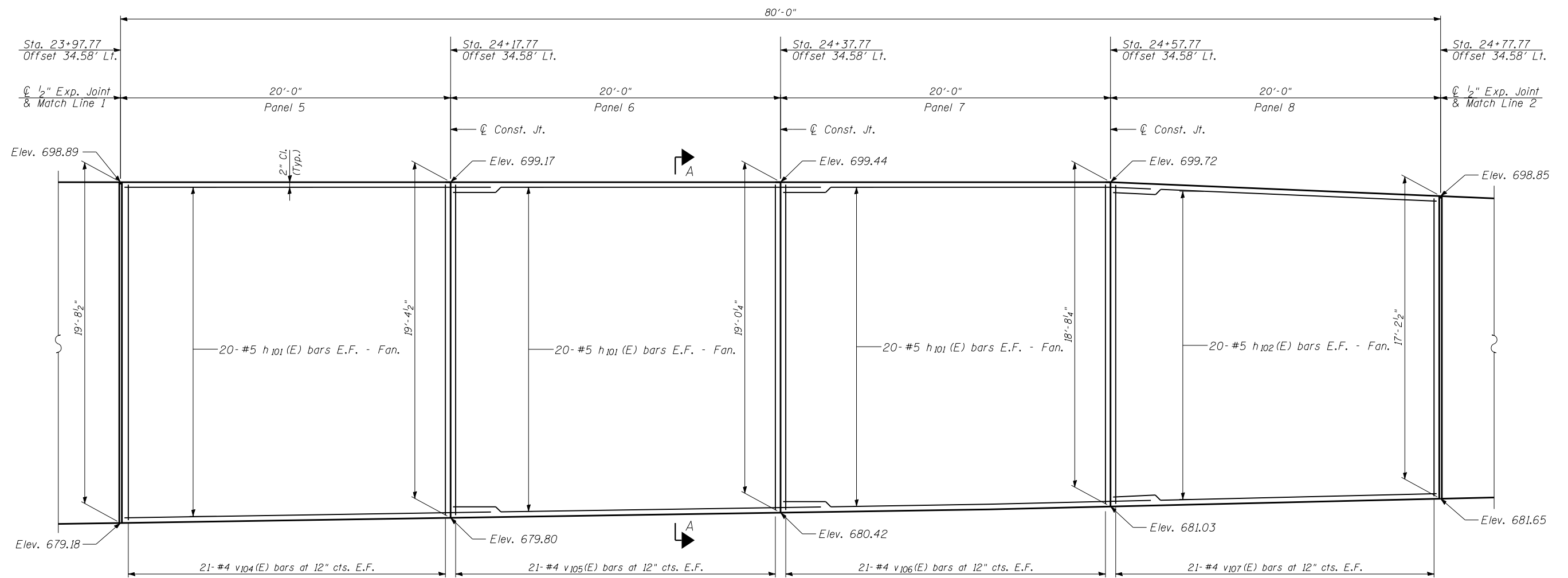


**DETAIL A
BEND IN WALL DETAIL**

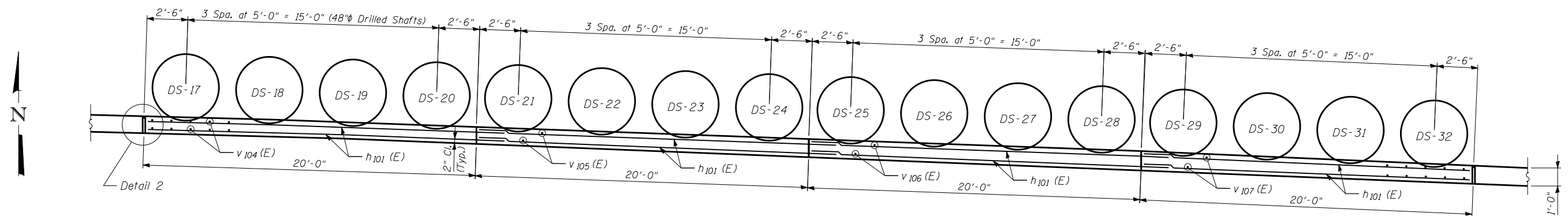
NOTES

1. B.F. - denotes Back Face.
2. E.F. - denotes Each Face.
3. F.F. - denotes Front Face.
4. Pile spacing measured along front face of wall.
5. For Section A-A, see Sheet 12.

FILE NAME - ...049W047-60K80-003.dgn HOH HARRY O. HEFTER ASSOCIATES, INC. DESIGN AND CONSULTING ENGINEERS 3366 55 East Jackson Blvd., Suite 600 Chicago, Illinois 60604 312/346-8931	USER NAME = aefitzpatrick PLOT SCALE = 5/4,0000 '1' / in. PLOT DATE = 10/7/2016	DESIGNED - MMH CHECKED - DNB DRAWN - R.VEJAR CHECKED - BCS	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND ELEVATION STA. 23 + 16.09 TO STA. 23 + 97.77 STRUCTURE NO. 049-W047	F.A.P. RTE. 346	SECTION 125X-N&J-SB-B	COUNTY LAKE	TOTAL SHEETS 361	SHEET NO. 187
	SHEET NO. 3 OF 18 SHEETS						CONTRACT NO. 60K80			ILLINOIS FED. AID PROJECT



ELEVATION



PLAN

NOTES

1. B.F. - denotes Back Face.
2. E.F. - denotes Each Face.
3. F.F. - denotes Front Face.
4. Pile spacing measured along front face of wall.
5. For Section A-A, see Sheet 12.

FILE NAME = ...049W047-60K80-004.dgn
HOH HARRY O. HEFTER ASSOCIATES, INC.
 DESIGN AND CONSULTING ENGINEERS
 3366 55 East Jackson Blvd., Suite 600
 Chicago, Illinois 60604
 312/346-8931

USER NAME = aefitzpatrick
 DESIGNED - MMH
 CHECKED - DNB
 DRAWN - R.VEJAR
 CHECKED - BCS
 PLOT SCALE = 5/4,0000 '1' / in.
 PLOT DATE = 10/7/2016

DESIGNED - MMH
 CHECKED - DNB
 DRAWN - R.VEJAR
 CHECKED - BCS
 REVISED -
 REVISED -
 REVISED -
 REVISED -

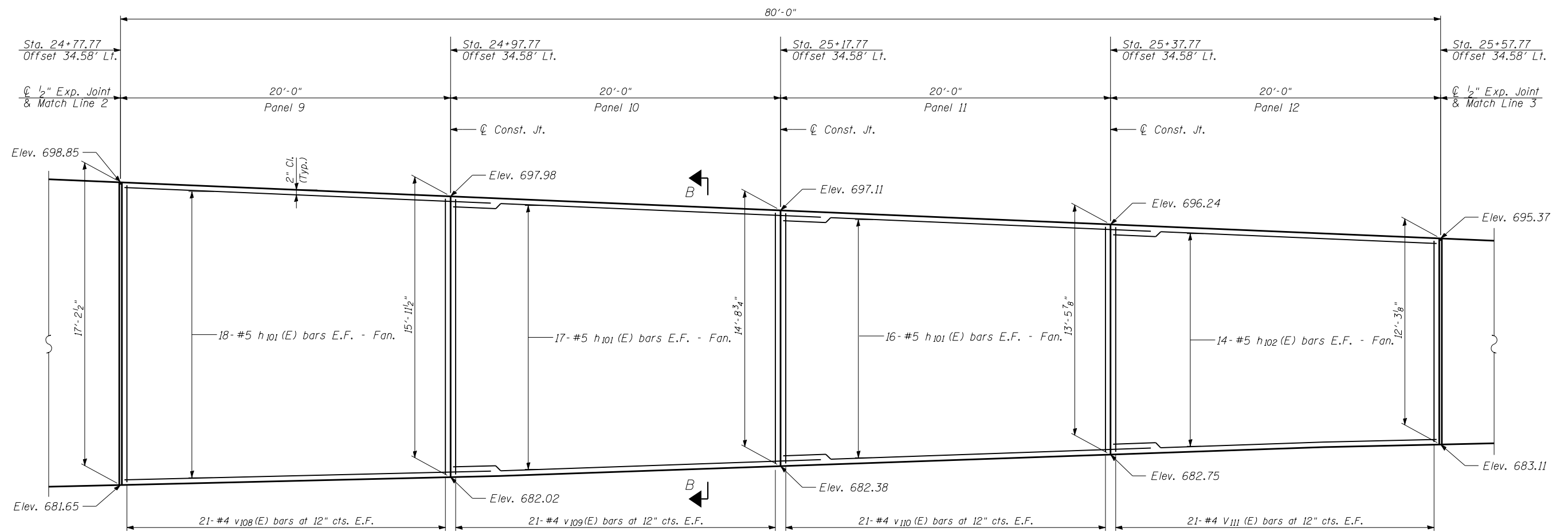
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PLAN AND ELEVATION STA. 23 + 97.77 TO STA. 24 + 77.77
 STRUCTURE NO. 049-W047**

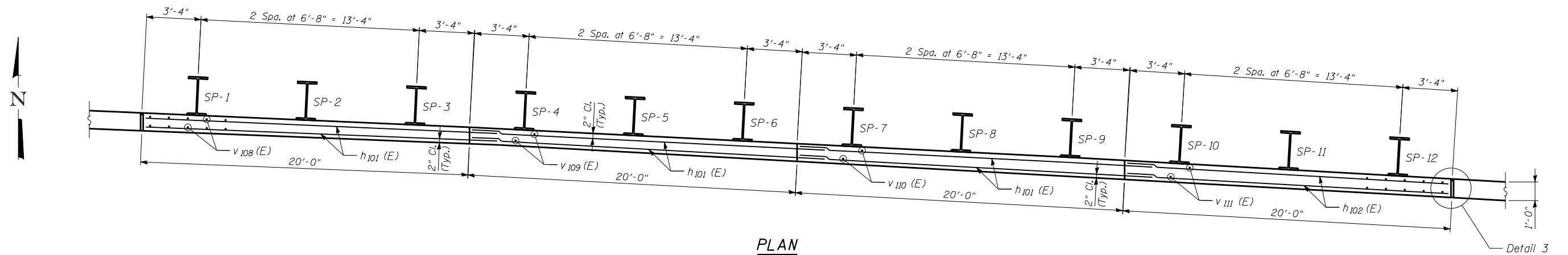
SHEET NO. 4 OF 18 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N&J-SB-B	LAKE	361	188
CONTRACT NO. 60K80				

ILLINOIS FED. AID PROJECT



ELEVATION



PLAN

NOTES

1. B.F. - denotes Back Face.
2. E.F. - denotes Each Face.
3. F.F. - denotes Front Face.
4. Pile spacing measured along front face of wall.
5. For Section B-B, see Sheet 11.

FILE NAME - ...049W047-60K80-005.dgn
HOH HARRY O. HEFTER ASSOCIATES, INC.
 DESIGN AND CONSULTING ENGINEERS
 3366 55 East Jackson Blvd., Suite 600
 Chicago, Illinois 60604
 312/346-8931

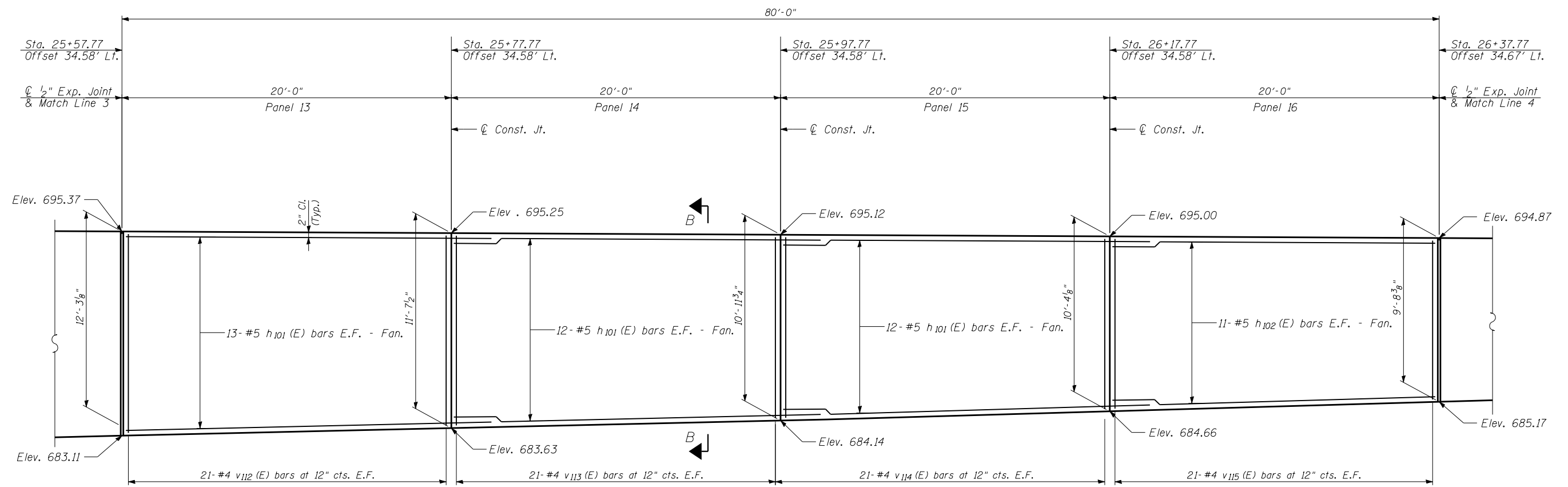
USER NAME = aefitzpatrick	DESIGNED - MMH	REVISED -
PLOT SCALE = 5/4.0000 '1' / in.	CHECKED - DNB	REVISED -
PLOT DATE = 10/7/2016	DRAWN - R.VEJAR	REVISED -
	CHECKED - BCS	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

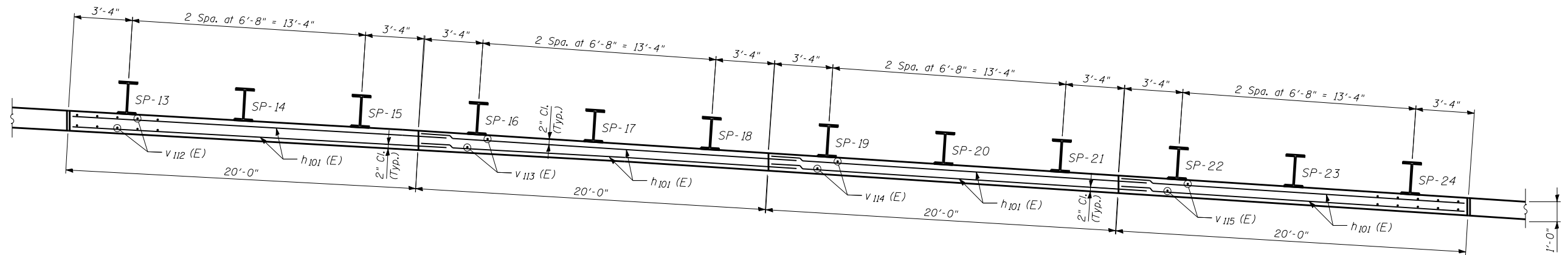
**PLAN AND ELEVATION STA. 24 + 77.77 TO STA. 25 + 57.77
 STRUCTURE NO. 049-W047**

SHEET NO. 5 OF 18 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N&J-SB-B	LAKE	361	189
CONTRACT NO. 60K80				
ILLINOIS FED. AID PROJECT				



ELEVATION



PLAN

NOTES

1. B.F. - denotes Back Face.
2. E.F. - denotes Each Face.
3. F.F. - denotes Front Face.
4. Pile spacing measured along front face of wall.
5. For Section B-B, see Sheet 11.

FILE NAME - ...049W047-60K80-006.dgn
HOH HARRY O. HEFTER ASSOCIATES, INC.
 DESIGN AND CONSULTING ENGINEERS
 3366 55 East Jackson Blvd., Suite 600
 Chicago, Illinois 60604
 312/346-8931

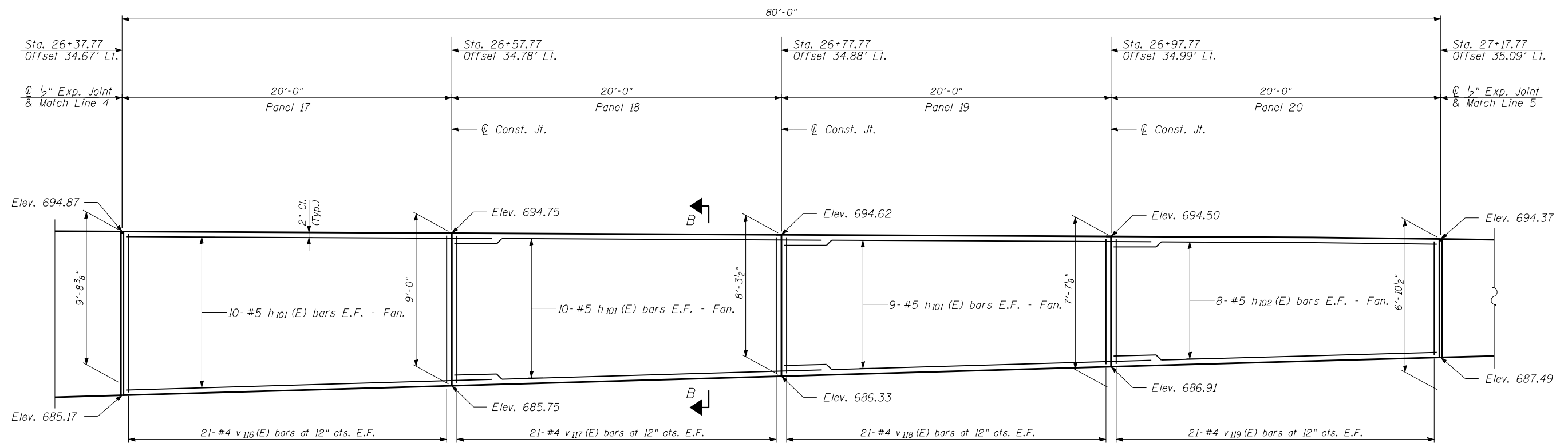
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PLOT DATE = 10/7/2016	DRAWN - R.VEJAR	REVISED -
	CHECKED - BCS	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

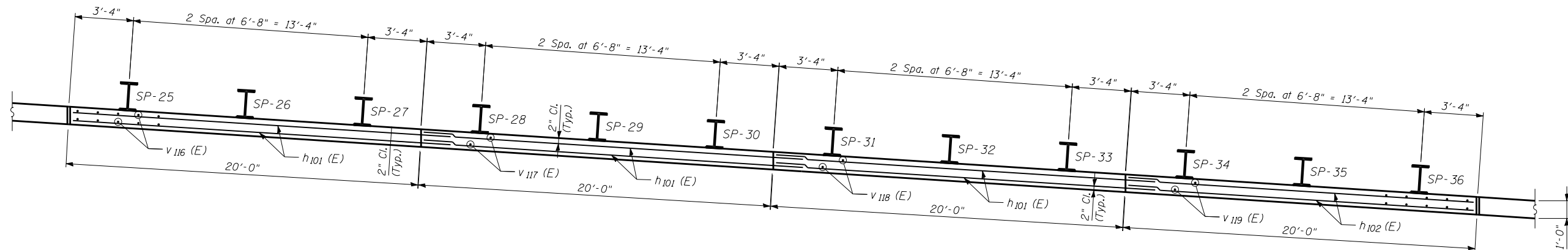
**PLAN AND ELEVATION STA. 25 + 57.77 TO STA. 26 + 37.77
 STRUCTURE NO. 049-W047**

SHEET NO. 6 OF 18 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N&J-SB-B	LAKE	361	190
CONTRACT NO. 60K80				
ILLINOIS FED. AID PROJECT				



ELEVATION



PLAN

NOTES

1. B.F. - denotes Back Face.
2. E.F. - denotes Each Face.
3. F.F. - denotes Front Face.
4. Pile spacing measured along front face of wall.
5. For Section B-B, see Sheet 11.

FILE NAME = ...049W047-60K80-007.dgn
HOH HARRY O. HEFTER ASSOCIATES, INC.
 DESIGN AND CONSULTING ENGINEERS
 3366 55 East Jackson Blvd., Suite 600
 Chicago, Illinois 60604
 312/346-8931

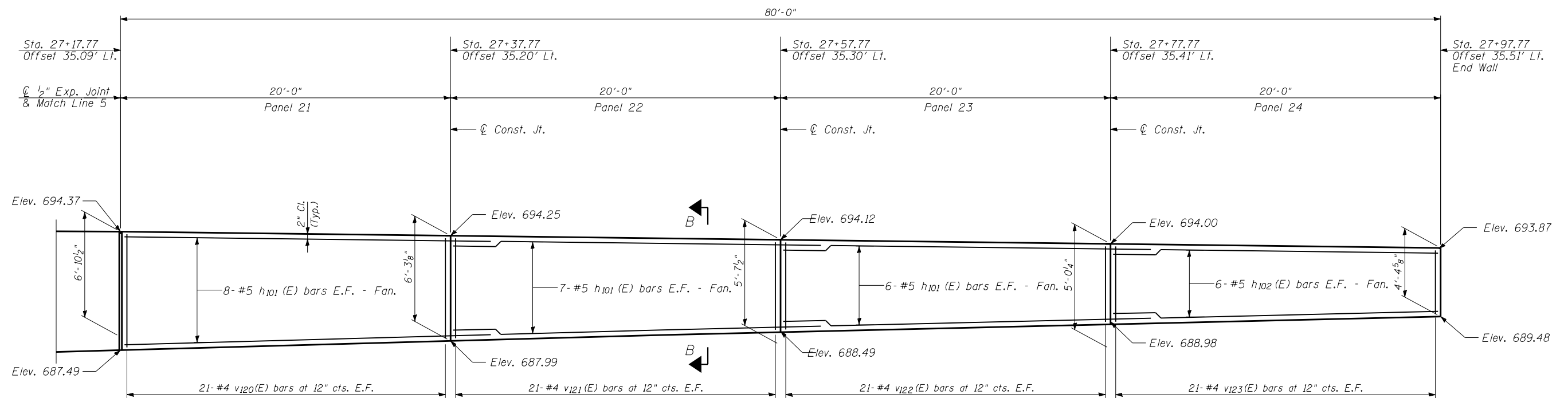
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PLOT DATE = 10/7/2016	DRAWN - R.VEJAR	REVISED -
	CHECKED - BCS	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

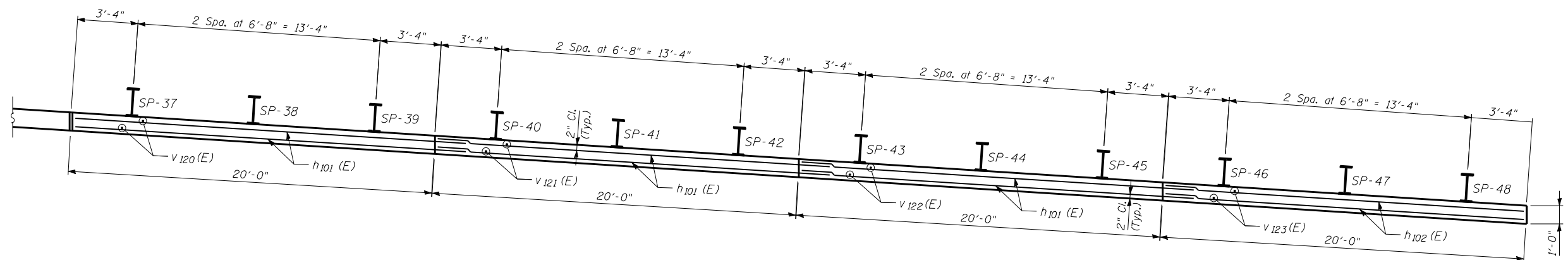
**PLAN AND ELEVATION STA. 26 + 37.77 TO STA. 27 + 17.77
 STRUCTURE NO. 049-W047**

SHEET NO. 7 OF 18 SHEETS

F.A.P. RTE. 346	SECTION 125X-N&J-SB-B	COUNTY LAKE	TOTAL SHEETS 361	SHEET NO. 191
CONTRACT NO. 60K80				
ILLINOIS FED. AID PROJECT				



ELEVATION



PLAN

NOTES

1. B.F. - denotes Back Face.
2. E.F. - denotes Each Face.
3. F.F. - denotes Front Face.
4. Pile spacing measured along front face of wall.
5. For Section B-B, see Sheet 11.

FILE NAME = ...049W047-60K80-008.dgn
HOH HARRY O. HEFTER ASSOCIATES, INC.
 DESIGN AND CONSULTING ENGINEERS
 3366 55 East Jackson Blvd., Suite 600
 Chicago, Illinois 60604
 312/346-8931

USER NAME = aefitzpatrick	DESIGNED - MMH	REVISED -
PLOT SCALE = 5/4.0000 '1' / in.	CHECKED - DNB	REVISED -
PLOT DATE = 10/7/2016	DRAWN - R.VEJAR	REVISED -
	CHECKED - BCS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN AND ELEVATION STA. 27+17.77 TO STA. 27+97.77
STRUCTURE NO. 049-W047**

SHEET NO. 8 OF 18 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N&J-SB-B	LAKE	361	192
CONTRACT NO. 60K80				
ILLINOIS FED. AID PROJECT				

SOLDIER PILE SUMMARY

Pile Label	Pile Size	Length (ft.)	Top of Pile Elevation	Bot. of Pile Elevation
SP-1	W36X210	40	696.96	656.96
SP-2	W36X210	40	696.67	656.67
SP-3	W36X210	40	696.37	656.37
SP-4	W36X170	37	696.09	659.09
SP-5	W36X170	37	695.80	658.80
SP-6	W36X170	37	695.50	658.50
SP-7	W36X150	35	695.22	660.22
SP-8	W36X150	35	694.93	659.93
SP-9	W36X150	35	694.63	659.63
SP-10	W33X130	32	694.35	662.35
SP-11	W33X130	32	694.06	662.06
SP-12	W33X130	32	693.76	661.76
SP-13	W30X116	30	693.60	663.60
SP-14	W30X116	30	693.56	663.56
SP-15	W30X116	30	693.52	663.52
SP-16	W30X108	28	693.48	665.48
SP-17	W30X108	28	693.44	665.44
SP-18	W30X108	28	693.39	665.39
SP-19	W30X99	27	693.35	666.35
SP-20	W30X99	27	693.31	666.31
SP-21	W30X99	27	693.27	666.27
SP-22	W30X99	26	693.23	667.23
SP-23	W30X99	26	693.19	667.19
SP-24	W30X99	26	693.14	667.14
SP-25	W30X99	25	693.10	668.10
SP-26	W30X99	25	693.06	668.06
SP-27	W30X99	25	693.02	668.02
SP-28	W21X73	23	692.98	669.98
SP-29	W21X73	23	692.98	669.98
SP-30	W21X73	23	692.98	669.98
SP-31	W21X73	23	692.85	669.85
SP-32	W21X73	23	692.81	669.81
SP-33	W21X73	23	692.77	669.77
SP-34	W21X73	21	692.73	671.73
SP-35	W21X73	21	692.69	671.69
SP-36	W21X73	21	692.64	671.64
SP-37	W18X55	18	692.60	674.60
SP-38	W18X55	18	692.56	674.56
SP-39	W18X55	18	692.52	674.52
SP-40	W18X55	18	692.48	674.48
SP-41	W18X55	18	692.44	674.44
SP-42	W18X55	18	692.39	674.39
SP-43	W18X40	16	692.35	676.35
SP-44	W18X40	16	692.31	676.31
SP-45	W18X40	16	692.27	676.27
SP-46	W18X40	15	692.23	677.23
SP-47	W18X40	15	692.19	677.19
SP-48	W18X40	15	692.14	677.14

DRILLED SHAFT SUMMARY

Shaft Mark	Diameter	Length	Top Elevation	Bottom Elevation	Reinforcing (Vertical)	Reinforcing (Spiral)
DS-1	4'-0"	45'-0"	695.46	650.46	28-v124	sp100
DS-2	4'-0"	45'-0"	695.46	650.46	28-v124	sp100
DS-3	4'-0"	45'-0"	695.46	650.46	28-v124	sp100
DS-4	4'-0"	45'-0"	695.46	650.46	28-v124	sp100
DS-5	4'-0"	45'-0"	695.77	650.77	28-v124	sp100
DS-6	4'-0"	45'-0"	695.77	650.77	28-v124	sp100
DS-7	4'-0"	45'-0"	695.77	650.77	28-v124	sp100
DS-8	4'-0"	45'-0"	695.77	650.77	28-v124	sp100
DS-9	4'-0"	45'-0"	696.05	651.05	28-v124	sp100
DS-10	4'-0"	45'-0"	696.05	651.05	28-v124	sp100
DS-11	4'-0"	45'-0"	696.05	651.05	28-v124	sp100
DS-12	4'-0"	45'-0"	696.05	651.05	28-v124	sp100
DS-13	4'-0"	45'-6"	696.32	650.82	28-v125	sp101
DS-14	4'-0"	45'-6"	696.32	650.82	28-v125	sp101
DS-15	4'-0"	45'-6"	696.32	650.82	28-v125	sp101
DS-16	4'-0"	45'-6"	696.32	650.82	28-v125	sp101
DS-17	4'-0"	45'-6"	696.60	651.10	28-v125	sp101
DS-18	4'-0"	45'-6"	696.60	651.10	28-v125	sp101
DS-19	4'-0"	45'-6"	696.60	651.10	28-v125	sp101
DS-20	4'-0"	45'-6"	696.60	651.10	28-v125	sp101
DS-21	4'-0"	45'-0"	696.88	651.88	28-v124	sp100
DS-22	4'-0"	45'-0"	696.88	651.88	28-v124	sp100
DS-23	4'-0"	45'-0"	696.88	651.88	28-v124	sp100
DS-24	4'-0"	45'-0"	696.88	651.88	28-v124	sp100
DS-25	4'-0"	44'-6"	697.15	652.65	28-v126	sp102
DS-26	4'-0"	44'-6"	697.15	652.65	28-v126	sp102
DS-27	4'-0"	44'-6"	697.15	652.65	28-v126	sp102
DS-28	4'-0"	44'-6"	697.15	652.65	28-v126	sp102
DS-29	4'-0"	44'-0"	696.56	652.56	28-v127	sp103
DS-30	4'-0"	44'-0"	696.56	652.56	28-v127	sp103
DS-31	4'-0"	44'-0"	696.56	652.56	28-v127	sp103
DS-32	4'-0"	44'-0"	696.56	652.56	28-v127	sp103

FILE NAME : ...\\049W047-60X80-00.dgn
HOH HARRY O. HEFTER ASSOCIATES, INC.
 DESIGN AND CONSULTING ENGINEERS
 3366 55 East Jackson Blvd., Suite 600
 Chicago, Illinois 60604
 312/346-8131

USER NAME = aefitzpatrick	DESIGNED - MMH	REVISOR -
PLOT SCALE = 0:2.0000 '1' / in.	CHECKED - DNB	REVISIONS -
PLOT DATE = 10/7/2016	DRAWN - R,VEJAR	REVISIONS -
	CHECKED - BCS	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRILLED SHAFT AND PILE SUMMARY
STRUCTURE NO. 049-W047

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N&J-SB-B	LAKE	361	193
CONTRACT NO. 60K80				
ILLINOIS FED. AID PROJECT				

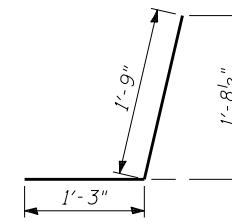
BAR LIST AND BILL OF MATERIAL

Bar	Number	Size	Length	Shape
d ₁₀₀ (E)	3,900	#5	3'-0"	J
h ₁₀₀ (E)	40	#5	22'-2"	—
h ₁₀₁ (E)	476	#5	22'-0"	—
h ₁₀₂ (E)	158	#5	19'-8"	—
h ₁₀₃ (E)	40	#5	4'-4"	—
V ₁₀₀ (E)	46	#4	18'-8"	—
V ₁₀₁ (E)	42	#4	19'-0"	—
V ₁₀₂ (E)	42	#4	19'-1"	—
V ₁₀₃ (E)	42	#4	19'-3"	—
V ₁₀₄ (E)	42	#4	19'-0"	—
V ₁₀₅ (E)	42	#4	18'-8"	—
V ₁₀₆ (E)	42	#4	18'-4"	—
V ₁₀₇ (E)	42	#4	17'-10"	—
V ₁₀₈ (E)	42	#4	15'-7"	—
V ₁₀₉ (E)	42	#4	14'-4"	—
V ₁₁₀ (E)	42	#4	13'-2"	—
V ₁₁₁ (E)	42	#4	11'-11"	—
V ₁₁₂ (E)	42	#4	11'-3"	—
V ₁₁₃ (E)	42	#4	10'-8"	—
V ₁₁₄ (E)	42	#4	10'-0"	—
V ₁₁₅ (E)	42	#4	9'-4"	—
V ₁₁₆ (E)	42	#4	8'-8"	—
V ₁₁₇ (E)	42	#4	8'-0"	—
V ₁₁₈ (E)	42	#4	7'-3"	—
V ₁₁₉ (E)	42	#4	6'-6"	—
V ₁₂₀ (E)	42	#4	5'-11"	—
V ₁₂₁ (E)	42	#4	5'-3"	—
V ₁₂₂ (E)	42	#4	4'-8"	—
V ₁₂₃ (E)	42	#4	4'-0"	—
** SP ₁₀₀	16	#4	44'-6"	
** SP ₁₀₁	8	#4	45'-0"	
** SP ₁₀₂	4	#4	44'-0"	
** SP ₁₀₃	4	#4	43'-6"	
V ₁₂₄	448	#11	44'-8"	—
V ₁₂₅	224	#11	45'-2"	—
V ₁₂₆	112	#11	44'-2"	—
V ₁₂₇	112	#11	43'-8"	—
Reinforcement Bars, Epoxy Coated		Pound	35,840	
Concrete Structures		Cu. Yd.	233	
Furnishing Soldier Piles (W Section)		Foot	1,242	
Drilling and Setting Soldier Piles (in Soil)		Cu. Ft.	9,650	
Drilled Shaft in Soil		Cu. Yd.	670	
Reinforcement Bars		Pound	240,817	

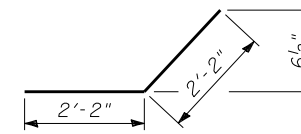
Minimum Lap for Spirals = 1 1/2 Turns
 ** Length is Height of Spiral.

LAP SPLICES

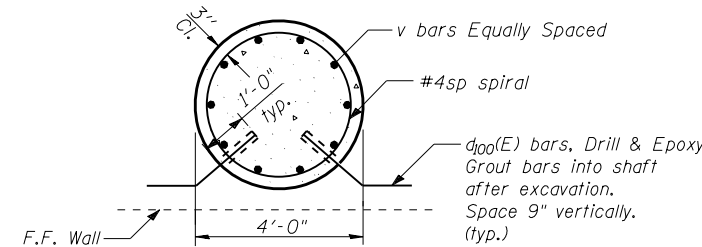
Bar	Lap
#4	1'-8"
#5	2'-2"
#6	2'-7"
#8	4'-6"
#11	9'-0"



BAR d₁₀₀ (E)

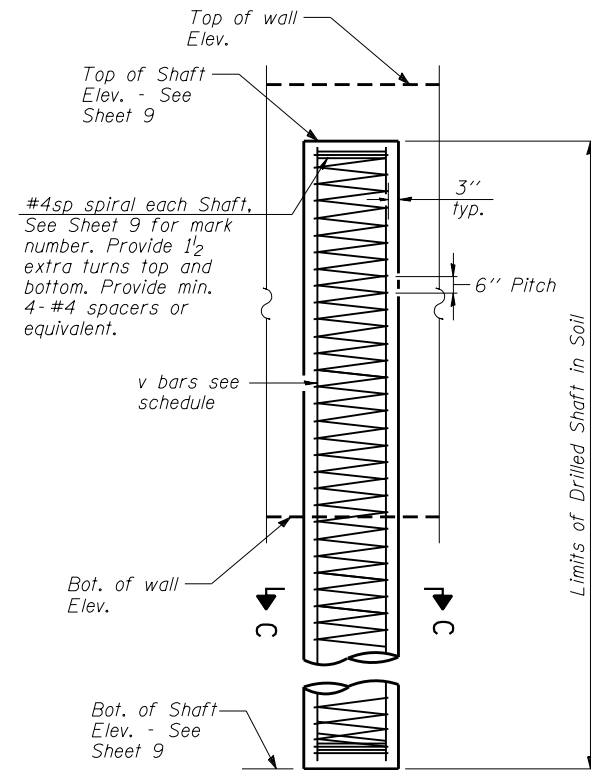


BAR h₁₀₃ (E)

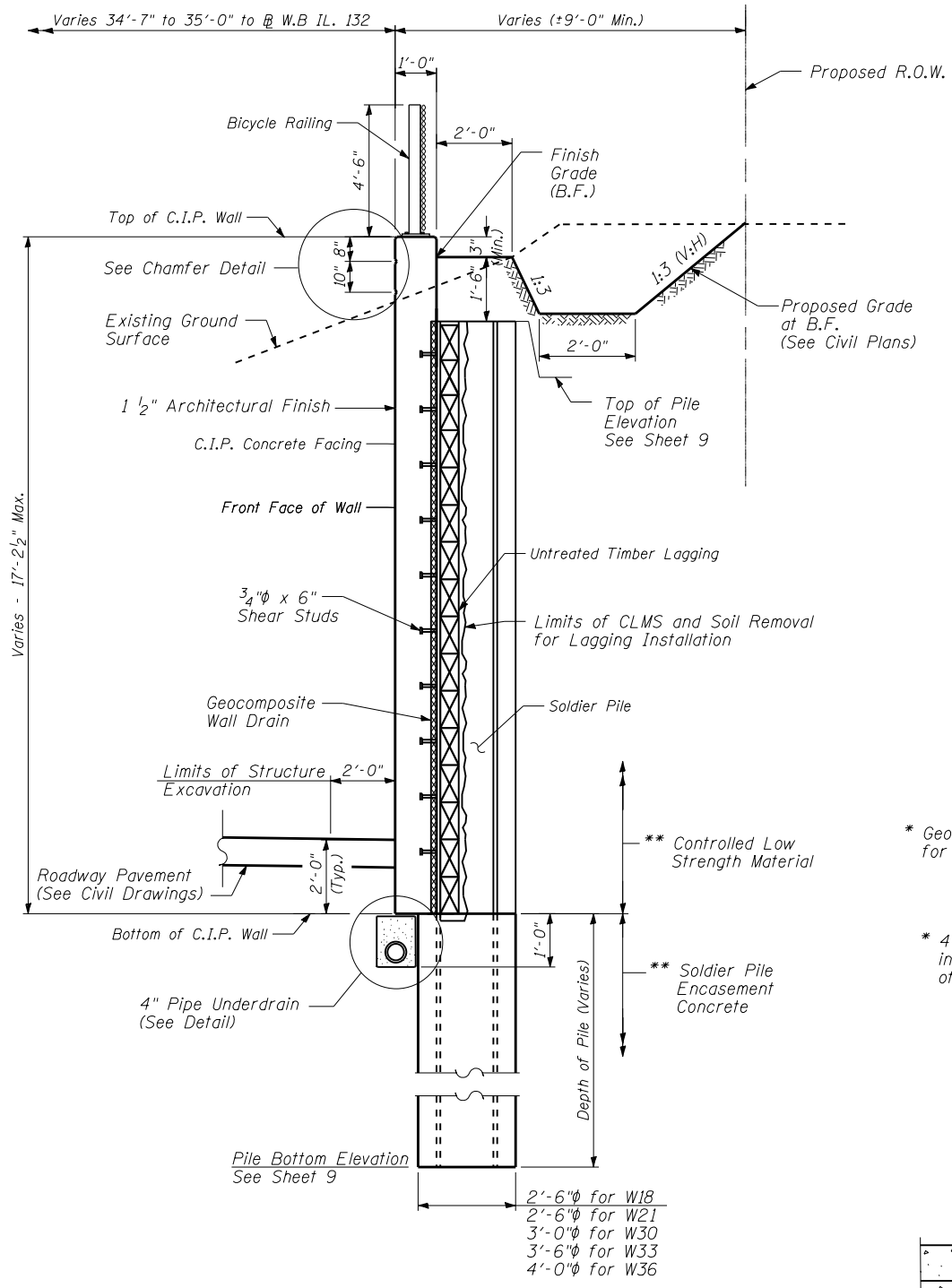


SECTION C-C

Drill & Epoxy Grout d₁₀₀(E) bars according to Article 584 of the Standard Specifications. The cost shall be included with "Reinforcement Bars, Epoxy Coated".



DRILLED SHAFT ELEVATION



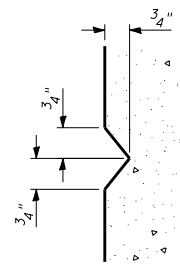
SECTION B-B

** Included in the cost of "Drilling and Setting Soldier Piles (in Soil)".

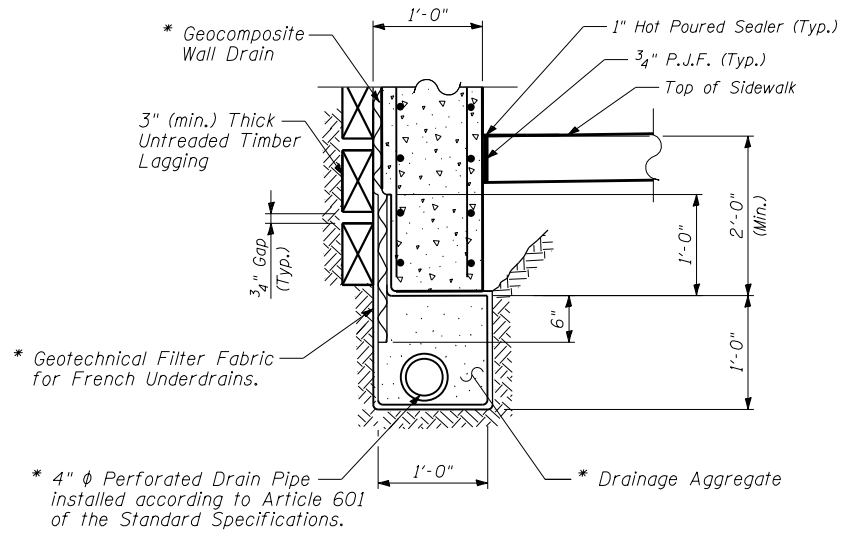
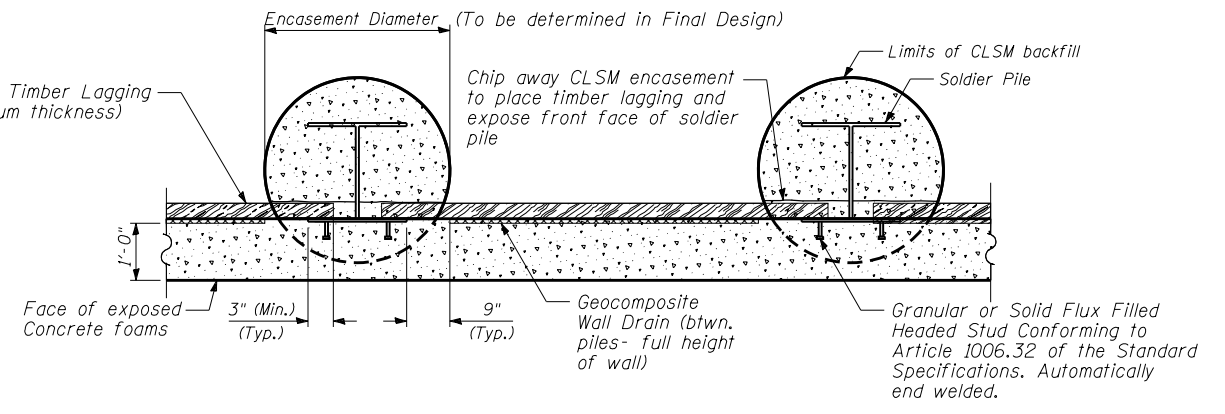
- 2'-6" φ for W18
- 2'-6" φ for W21
- 3'-0" φ for W30
- 3'-6" φ for W33
- 4'-0" φ for W36

CHAMFER DETAIL

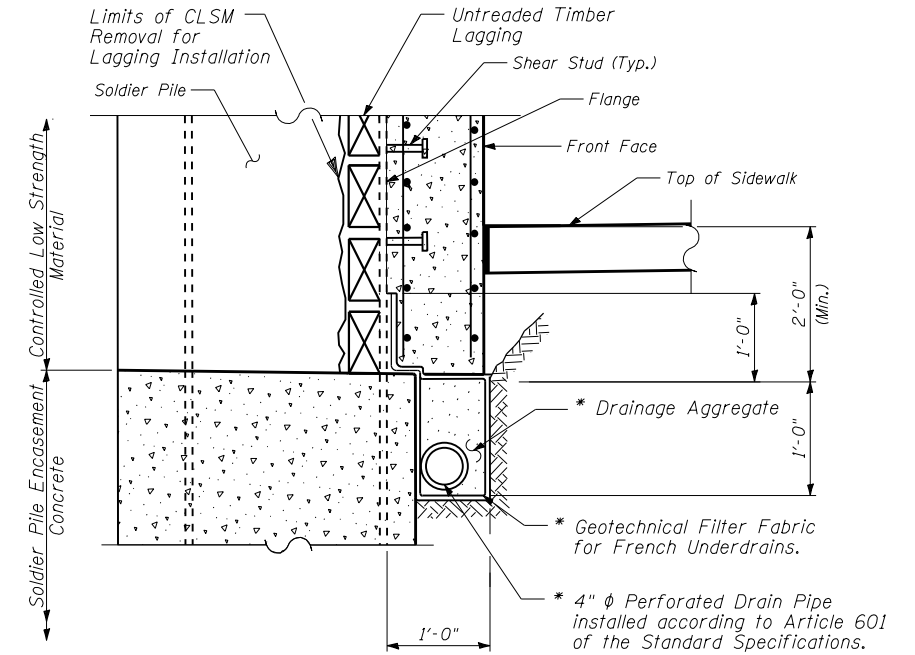
Cost of Chamfer included with "Concrete Structures"



TYPICAL SECTION THRU DRILLED SOLDIER PILE WALL

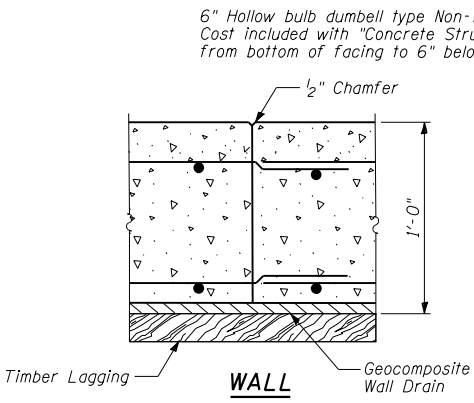


PIPE UNDERDRAIN DETAIL BETWEEN SOLDIER PILES

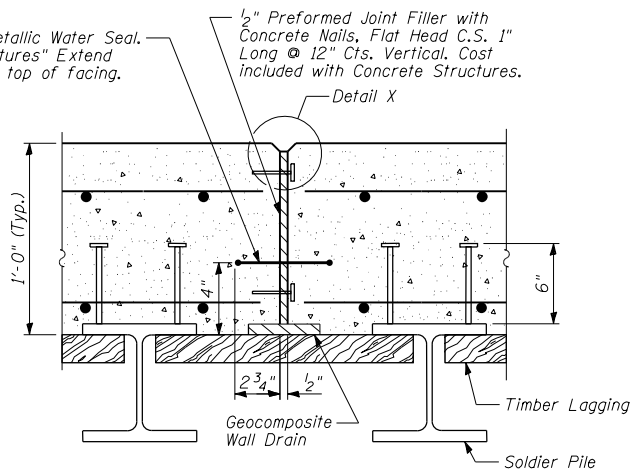


PIPE UNDERDRAIN DETAIL AT SOLDIER PILE

* Included in the cost of "Pipe Underdrains for Structures".



CONSTRUCTION JOINT DETAIL



EXPANSION JOINT DETAIL AT SOLDIER PILE WALL DETAIL 3

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

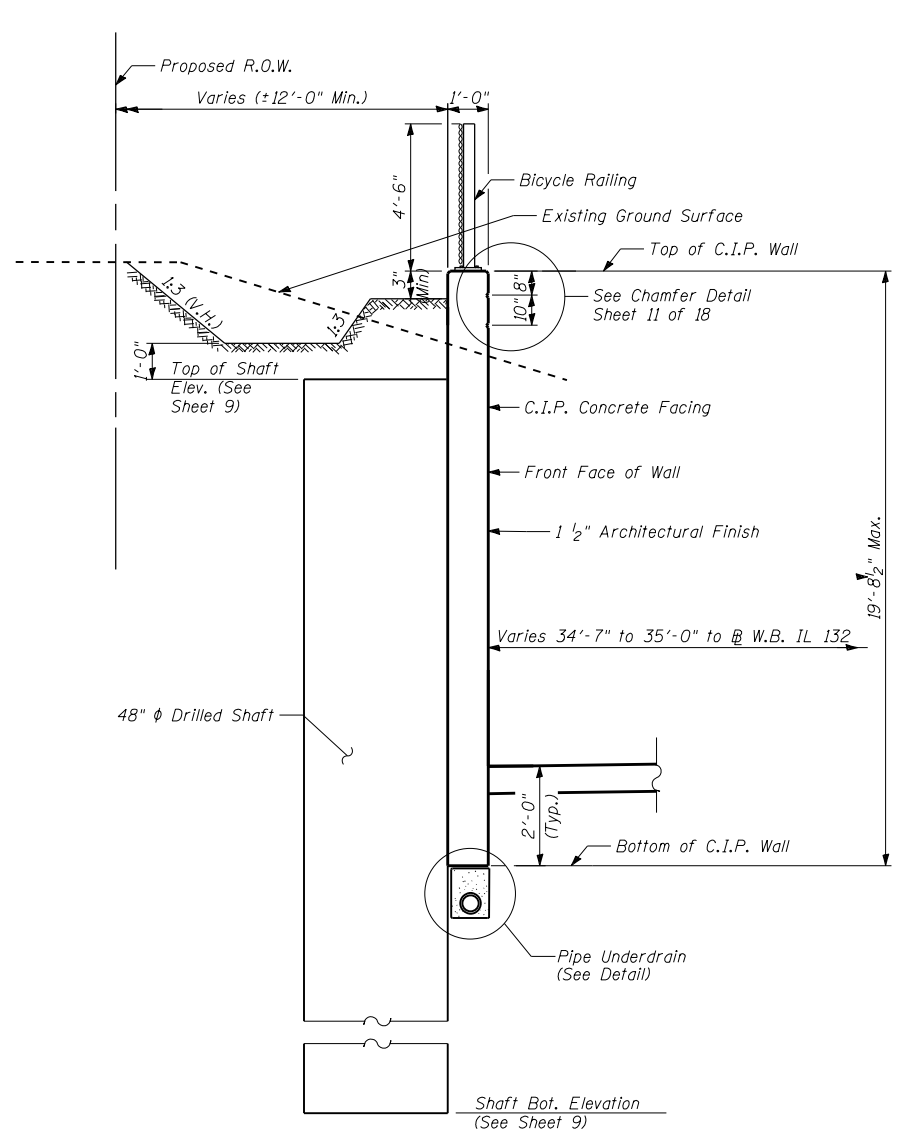
WALL SECTIONS AND DETAILS - SHEET 1
STRUCTURE NO. 049-W047

SHEET NO. 11 OF 18 SHEETS

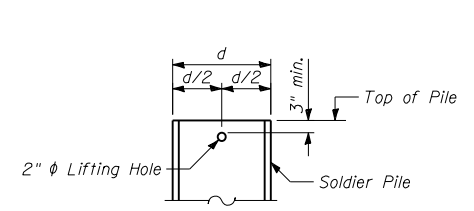
FILE NAME = ...049W047-60K80-011.dgn
HOH HARRY O. HEFTER ASSOCIATES, INC.
 DESIGN AND CONSULTING ENGINEERS
 3366 55 East Jackson Blvd., Suite 600
 Chicago, Illinois 60604
 312/346-8931

USER NAME = aofitzpatrick	DESIGNED - MMH	REVISED -
PLOT SCALE = 5/4,000' 1" / 1/4"	CHECKED - DNB	REVISED -
PLOT DATE = 10/7/2016	DRAWN - R.VEJAR	REVISED -
	CHECKED - BCS	REVISED -

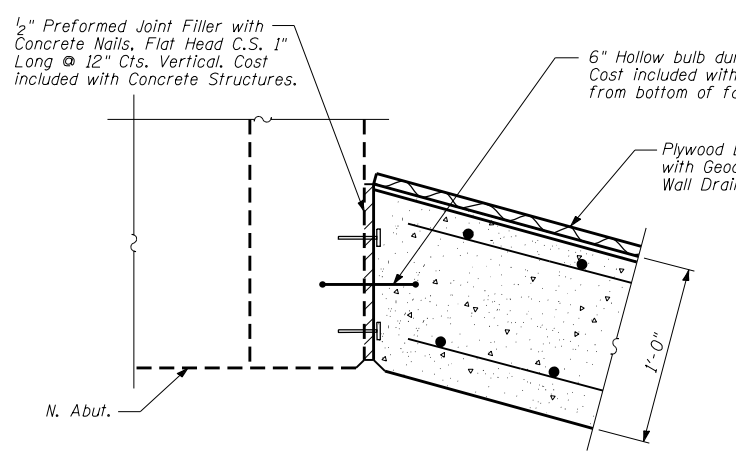
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N&J-SB-B	LAKE	361	195
CONTRACT NO. 60K80				
ILLINOIS FED. AID PROJECT				



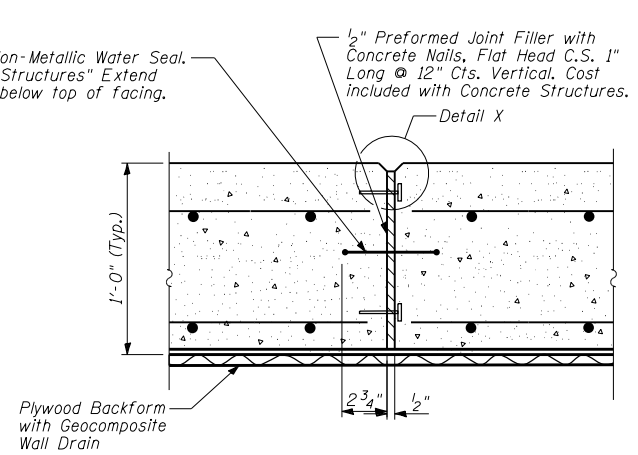
SECTION A-A
Sta. 23+16.09 to Sta. 24+77.77
(Tangent Pile Wall)



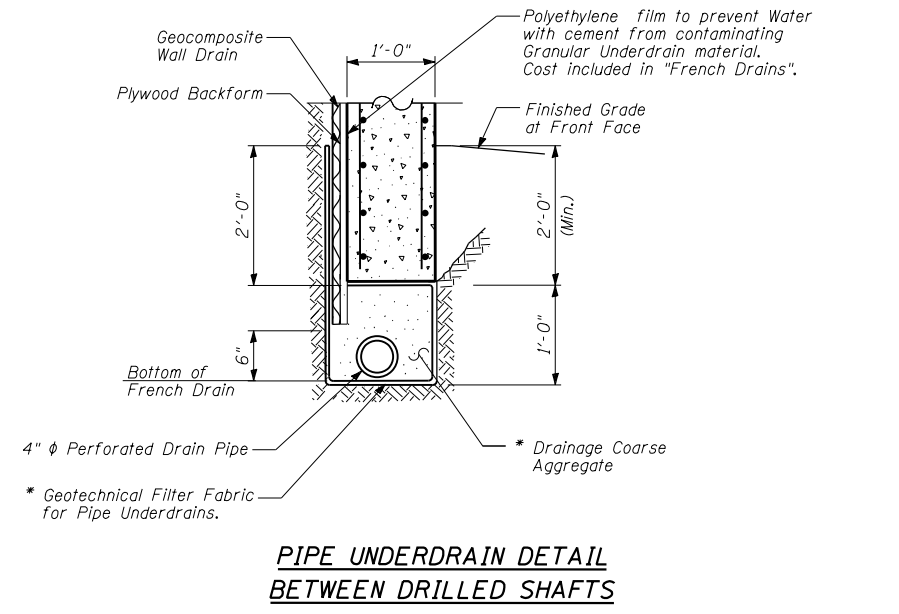
LIFTING HOLE DETAIL
Lifting hole to be provided if necessary.
Cost included with "Furnishing Soldier Piles (W Section)"



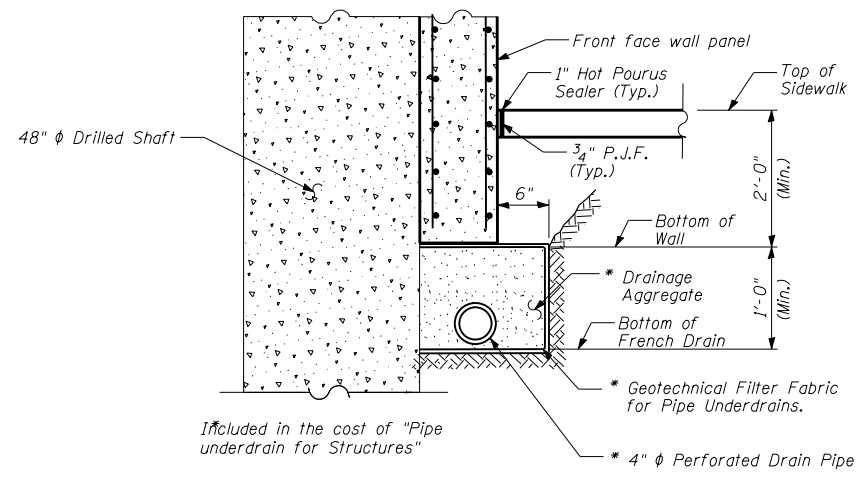
DETAIL 1



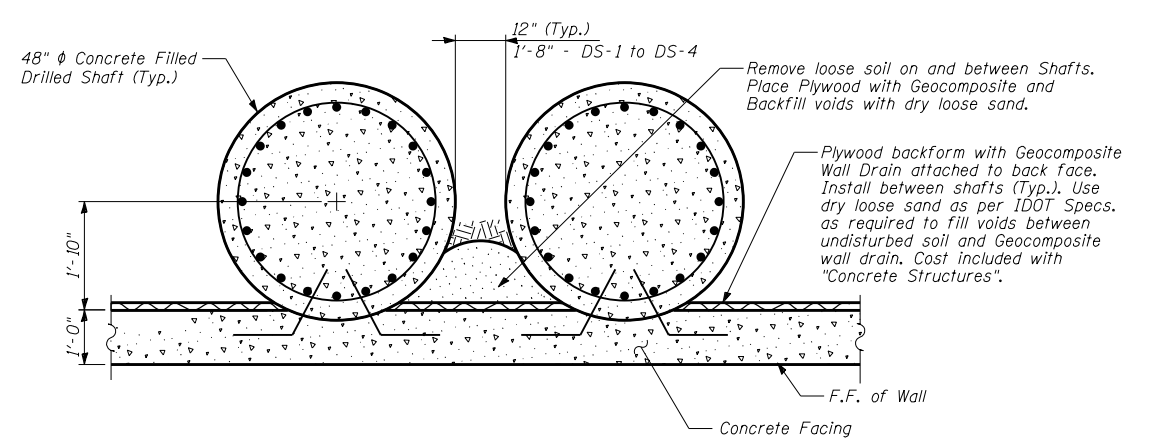
EXPANSION JOINT DETAIL AT TANGENT PILE WALL
DETAIL 2



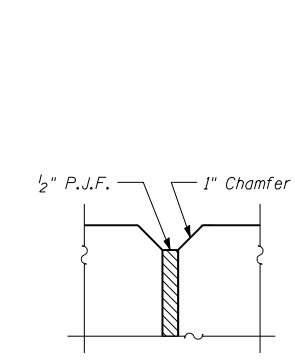
PIPE UNDERDRAIN DETAIL BETWEEN DRILLED SHAFTS



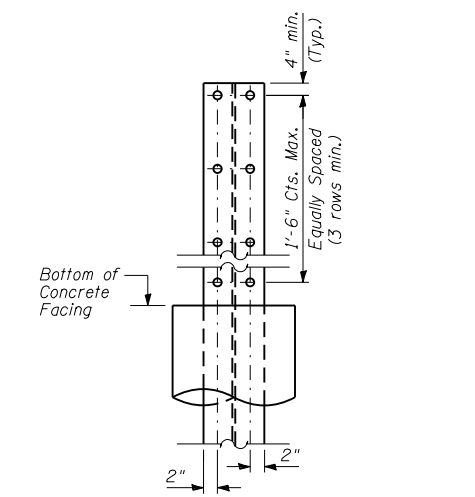
PIPE UNDERDRAIN DETAIL AT DRILLED SHAFT



TYPICAL SECTION THRU TANGENT PILE WALL



DETAIL X

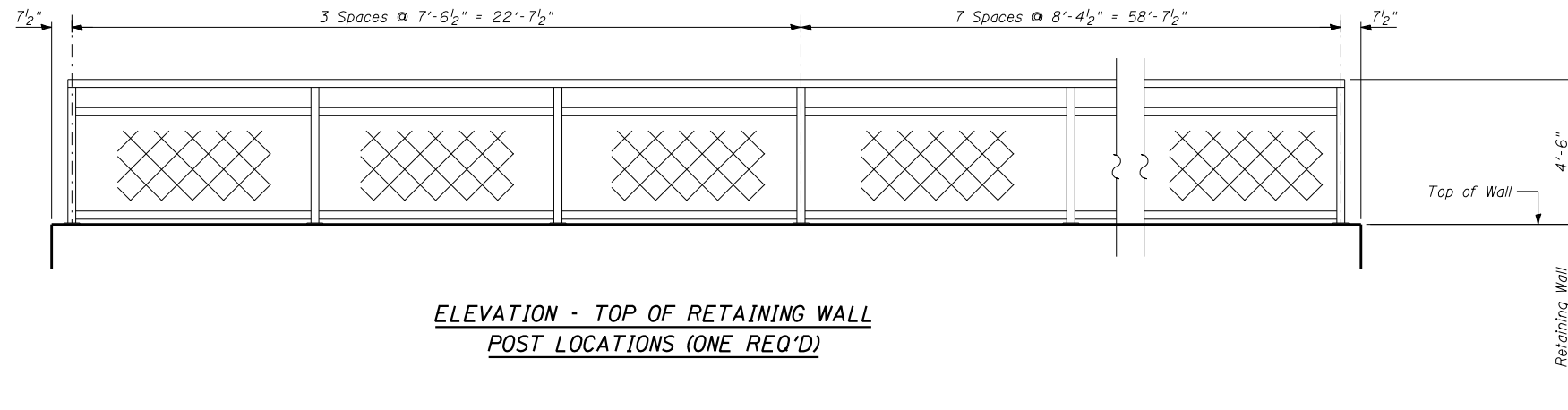


SHEAR STUD CONNECTOR DETAIL

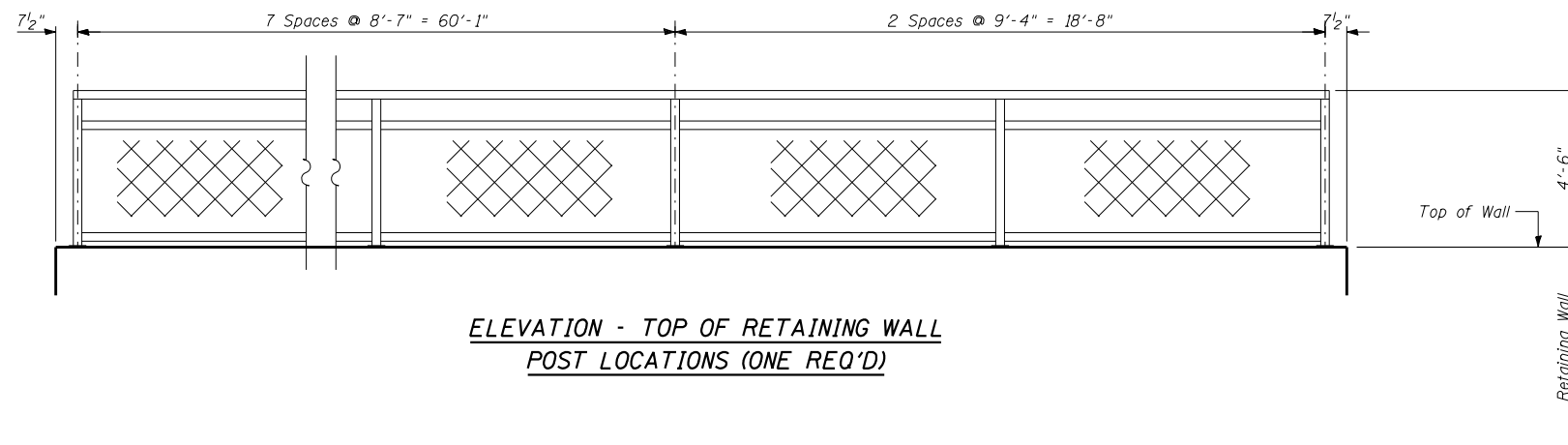
BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	815
Stud Shear Connectors	Each	464
Untreated Timber Lagging	Sq. Ft.	6,300
Geocomposite Wall Drain	Sq. Yd.	700
Pipe Underdrains for Structures, 4"	Foot	500

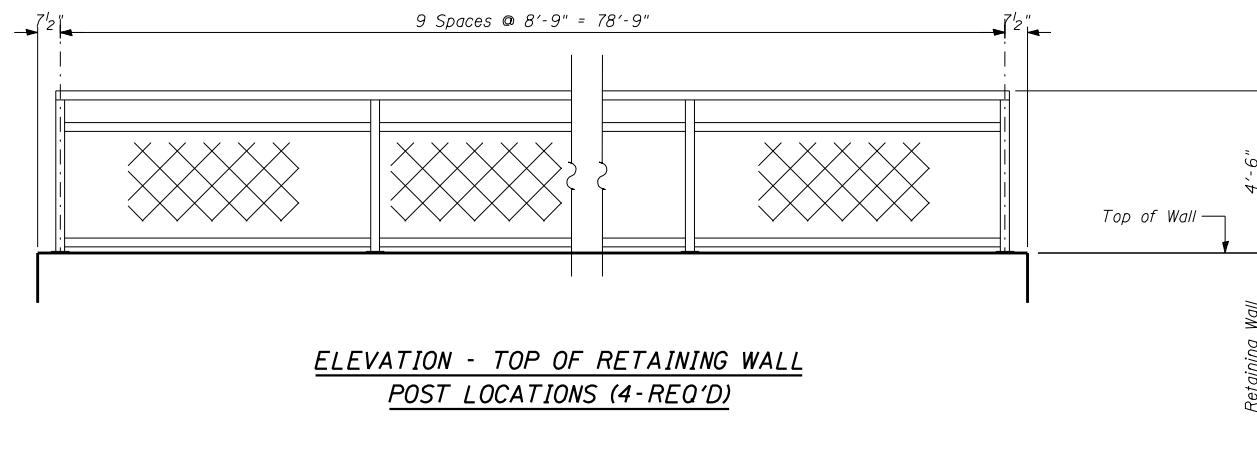
- NOTES:**
- The Geocomposite Wall Drain shall be constructed according to Section 591 of the Standard Specifications.
 - The Contractor is responsible for the design and performance of the lagging using no less than 3" nominal rough-sawn thickness and the minimum tabulated unit stress in bending (f_b), used in the design of timber lagging shall be 1000 psi.
 - Stud shear connectors shall be 3/4" ϕ x 6" granular or solid flux filled headed studs, automatically end welded to the front flange of the soldier piles.



**ELEVATION - TOP OF RETAINING WALL
POST LOCATIONS (ONE REQ'D)**

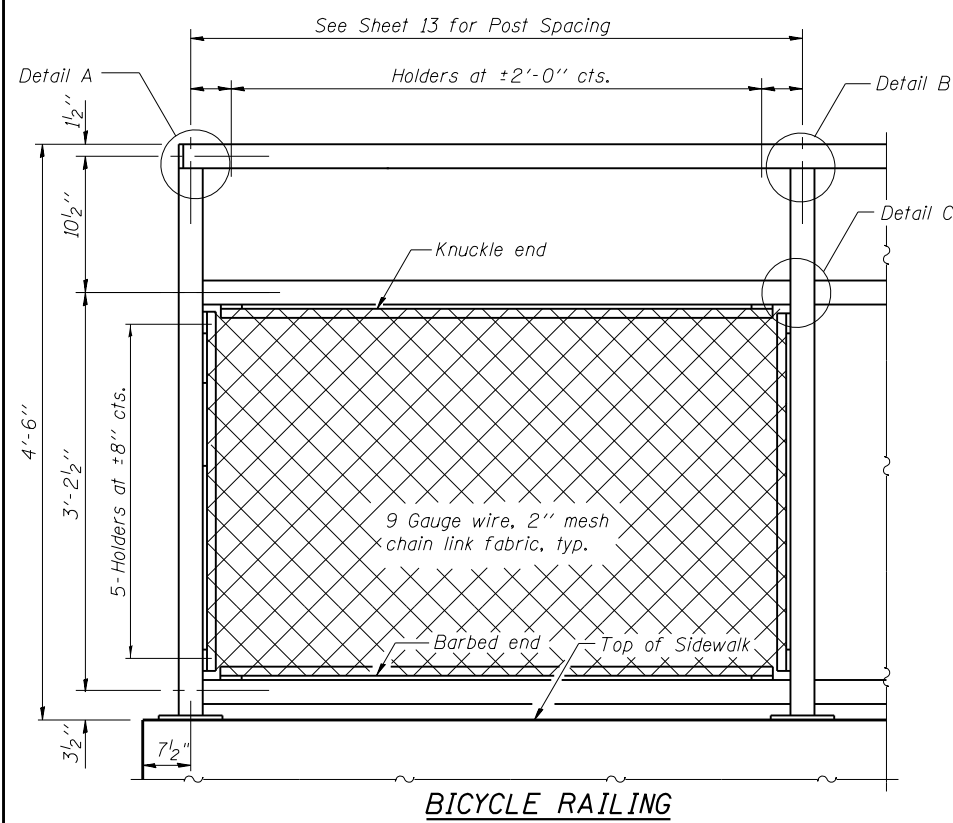


**ELEVATION - TOP OF RETAINING WALL
POST LOCATIONS (ONE REQ'D)**

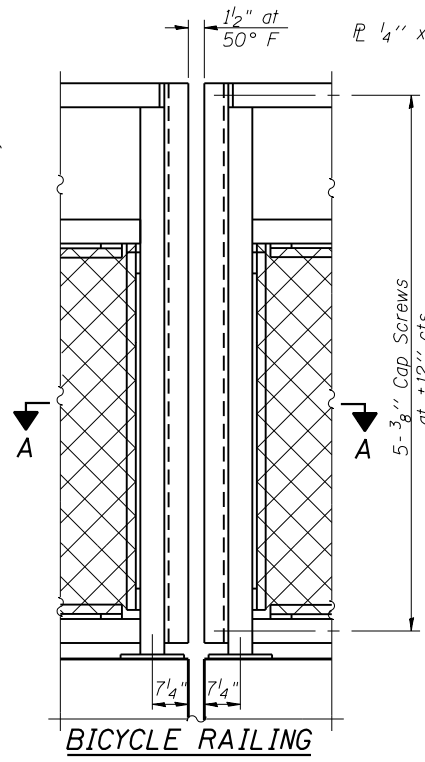


**ELEVATION - TOP OF RETAINING WALL
POST LOCATIONS (4-REQ'D)**

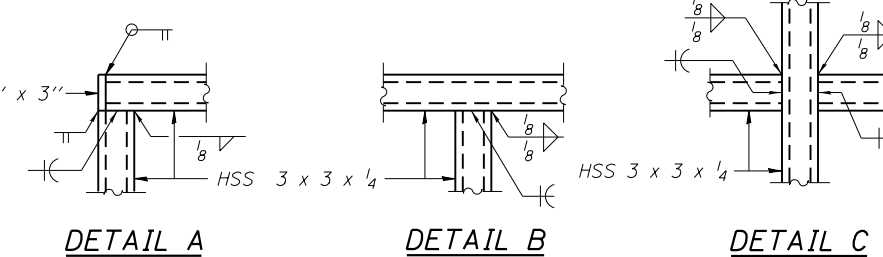
Note:
Posts are to be vertical. Fabricate railing sections to fit changes/slopes of wall top & maintain vertical orientation of posts.



BICYCLE RAILING

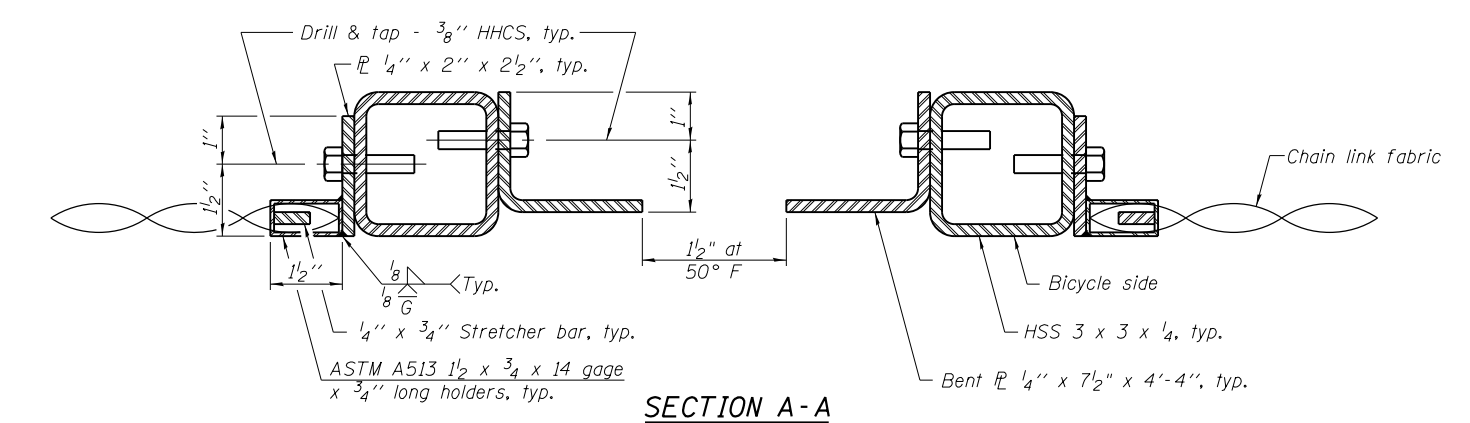


BICYCLE RAILING

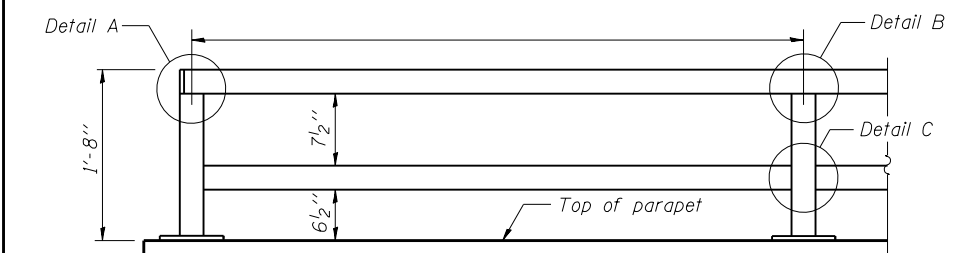


DETAIL A DETAIL B DETAIL C

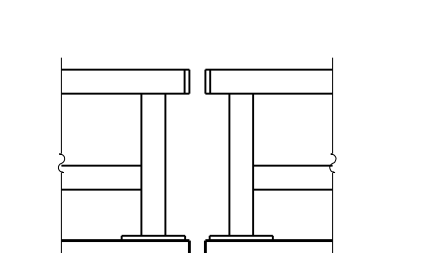
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



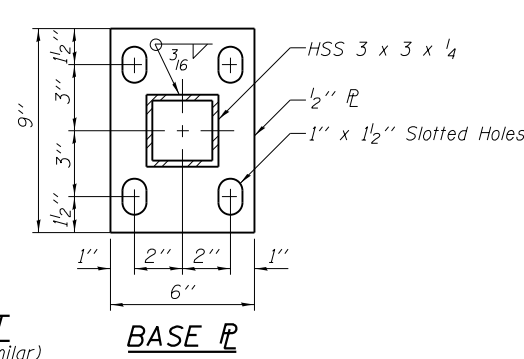
SECTION A-A



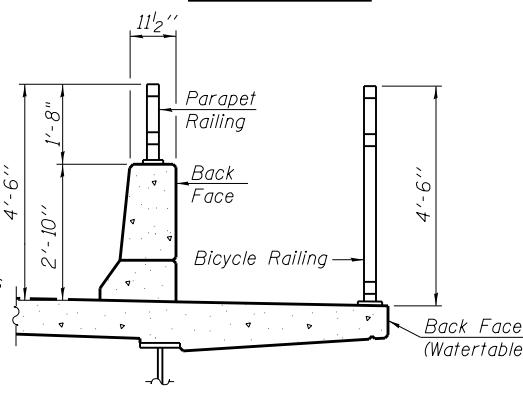
**PARAPET RAILING
ELEVATION**
(Inside Face of Two Element Rail)



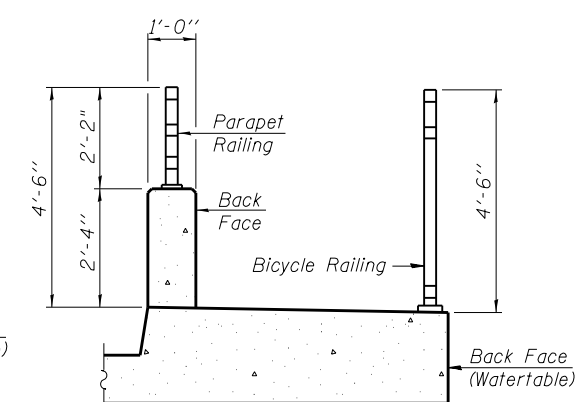
**PARAPET RAILING
ELEVATION AT EXPANSION JOINT**
(Two Element Rail Shown - Three Element Rail Similar)



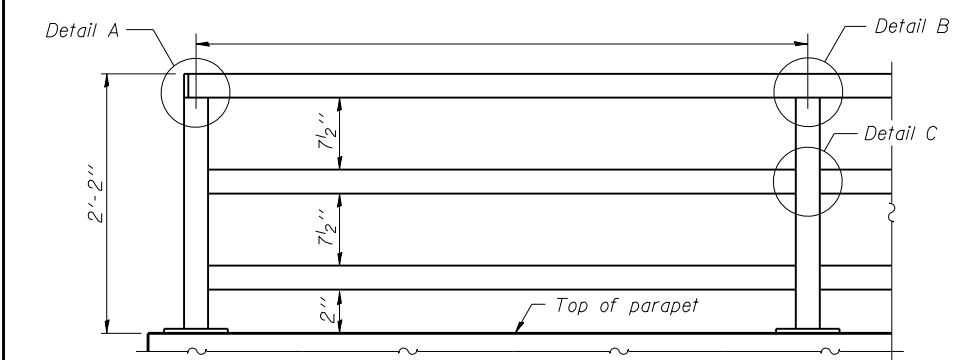
BASE PLATE



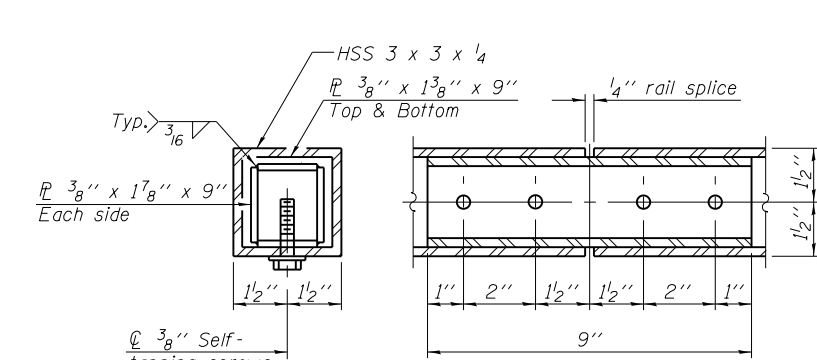
SECTION THRU DECK



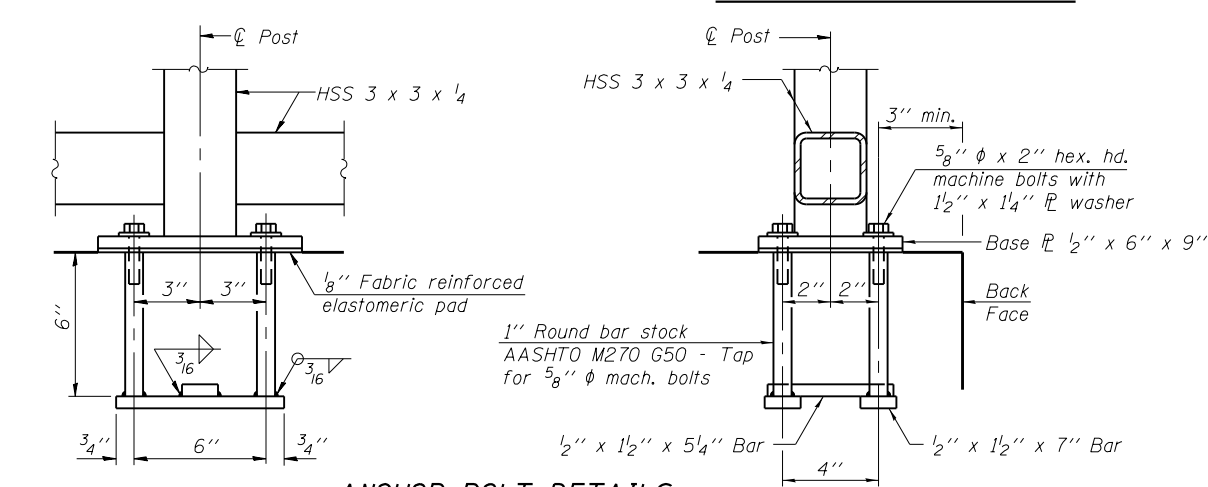
SECTION THRU SIDEWALK



**PARAPET RAILING
ELEVATION**
(Inside Face of Three Element Rail)



RAIL SPLICE



ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8 inch diameter anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	478
Parapet Railing	Foot	

R-29 1-12-15 (10'-0" Maximum Post Spacing)

HOH
HARRY O. HEFTER ASSOCIATES, INC.
DESIGN AND CONSULTING ENGINEERS
55 East Jackson Blvd., Suite 600
Chicago, Illinois 60604
312/346-8931

FILE NAME = ...049W047-60K80-014.dgn	DESIGNED - MMH	REVISD -
USER NAME = aefitzpatrick	CHECKED - DNB	REVISD -
PLOT SCALE = 0:2.0000 '1' / in.	DRAWN - R.VEJAR	REVISD -
PLOT DATE = 10/7/2016	CHECKED - BCS	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BICYCLE RAILING DETAILS
STRUCTURE NO. 049-W047**
SHEET NO. 14 OF 18 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	125X-N&J-SB-B	LAKE	361	198
CONTRACT NO. 60K80				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

Date 5/2/11

ROUTE 132 / Grand Avenue DESCRIPTION Union Pacific Rail Bridge over IL 132 LOGGED BY RJC

SECTION 125X-N LOCATION N. Abut. SEC. 13, TWP. 45N, RNG. 11E, 3rd PM Latitude 42°22'15.54542" N, Longitude 87°53'43.06994" W

COUNTY Lake DRILLING METHOD HSA HAMMER TYPE AUTO

Table with columns for Depth (ft), Blows (6"), SPT, and Soil Description. Includes data for various soil layers like 'Dark Brown, Moist TOPSOIL' and 'Very Stiff Gray, Moist SILTY CLAY LOAM'.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 5/2/11

ROUTE 132 / Grand Avenue DESCRIPTION Union Pacific Rail Bridge over IL 132 LOGGED BY RJC

SECTION 125X-N LOCATION N. Abut. SEC. 13, TWP. 45N, RNG. 11E, 3rd PM Latitude 42°22'15.54542" N, Longitude 87°53'43.06994" W

COUNTY Lake DRILLING METHOD HSA HAMMER TYPE AUTO

Table with columns for Depth (ft), Blows (6"), SPT, and Soil Description. Includes data for 'Very Stiff Gray, Moist SILTY CLAY LOAM' and '2 inch layer of gravel, medium grain at 64.3'.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 5/2/11

ROUTE 132 / Grand Avenue DESCRIPTION Union Pacific Rail Bridge over IL 132 LOGGED BY RJC

SECTION 125X-N LOCATION N. Abut. SEC. 13, TWP. 45N, RNG. 11E, 3rd PM Latitude 42°22'15.54542" N, Longitude 87°53'43.06994" W

COUNTY Lake DRILLING METHOD HSA HAMMER TYPE AUTO

Table with columns for Depth (ft), Blows (6"), SPT, and Soil Description. Includes data for 'Very Stiff Gray traces of Orange/Red, Moist SILTY LOAM, trace gravel' and 'End of Boring'.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)