

- FOR LEGEND AND GENERAL NOTES SEE SHEET LT-1
- NOTE:
1. FOR LEGEND AND GENERAL NOTES SEE SHEET LT-1
 2. THE RELOCATED DECORATIVE LIGHT POLES SHALL BE RECONNECTED TO THE EXISTING LIGHTING CONTROLLERS NORTH OF POTTER ST. AND SOUTH OF CENTER ST., AS APPLICABLE. THE CONTRACTOR SHALL EXAMINE THE EXISTING EQUIPMENT DURING THE PRE-CONSTRUCTION INSPECTION TO DETERMINE THE EQUIPMENT WHICH WILL BE IMPACTED BY THE WORK.
 3. ALL PROPOSED LIGHTING SHALL BE OWNED AND MAINTAINED BY THE CITY OF WOOD DALE. THE COMBINATION LIGHTING SHALL BE OWNED AND MAINTAINED BY IDOT.



COMPANY NAME: AMES Engineering, Inc.
 PROJECT CONTACT: Jhorwit
 CLIENT: STATE OF ILLINOIS
 DATE PLOTTED: 7/4/2015 2:46:55 PM
 FILE NAME: 023.light-07.dgn
 PLOT DRIVER: pldrvr
 PEN TABLE: standard-trans.tbl

DESIGNED - BL	REVISED -
DRAWN - RA/RV	REVISED -
CHECKED - MB	REVISED -
DATE - 2/2/2015	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN
 WOOD DALE ROAD

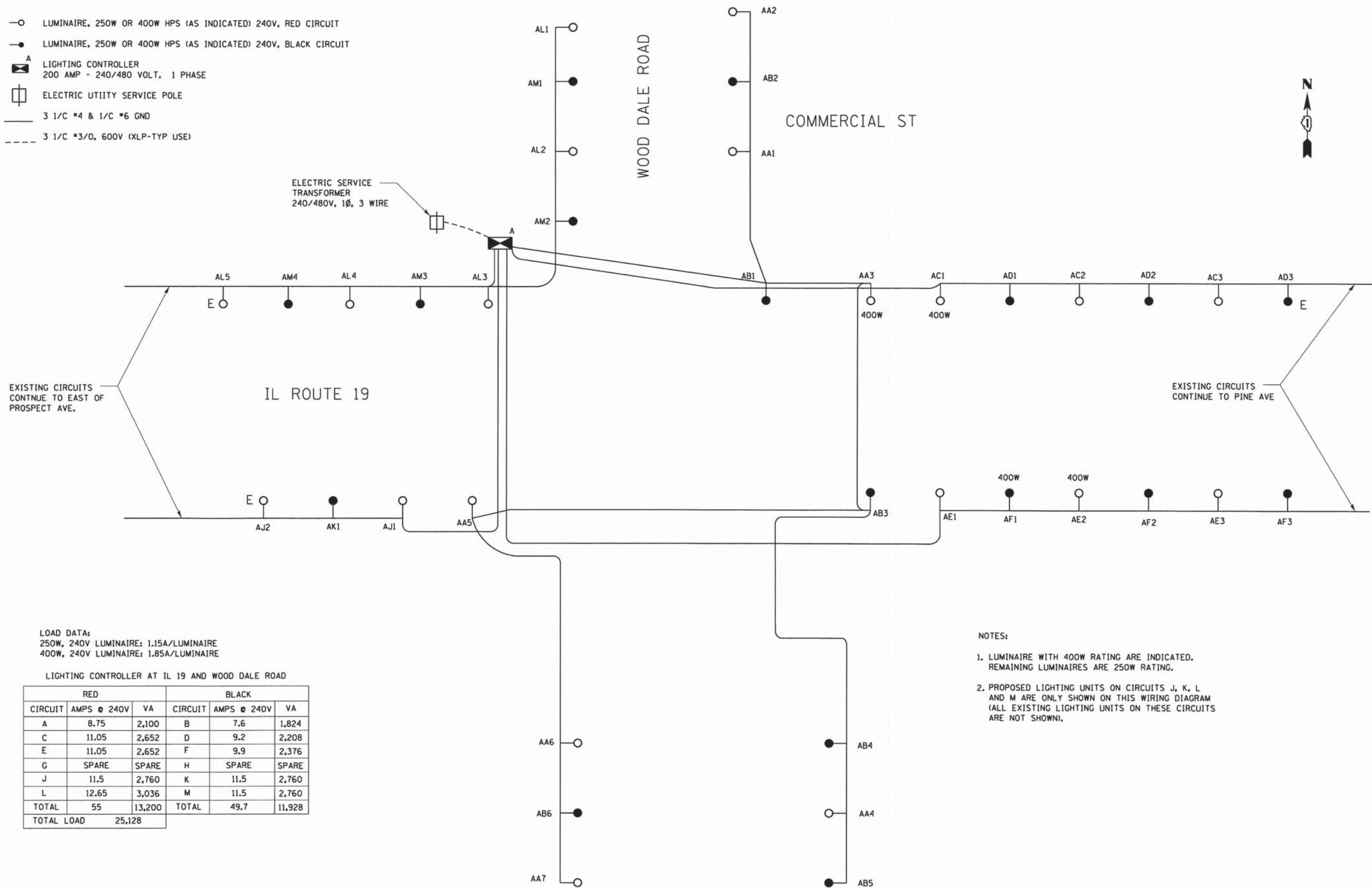
SCALE: 1"=50' SHEET NO. 7 OF 14 SHEETS STA. NA TO STA. NA

F.A.U. RTE. 1321	SECTION NO. 11-00048-00-SP	COUNTY DUPAGE	TOTAL SHEETS 277	SHEET NO. 201
CONTRACT NO. 63872				

LT-7

LEGEND

- LUMINAIRE, 250W OR 400W HPS (AS INDICATED) 240V, RED CIRCUIT
- LUMINAIRE, 250W OR 400W HPS (AS INDICATED) 240V, BLACK CIRCUIT
- ⊠ LIGHTING CONTROLLER
200 AMP - 240/480 VOLT, 1 PHASE
- ⊞ ELECTRIC UTILITY SERVICE POLE
- 3 1/C #4 & 1/C #6 GND
- - - 3 1/C #3/0, 600V (XLP-TYP USE)



ELECTRIC SERVICE TRANSFORMER
240/480V, 1Ø, 3 WIRE

EXISTING CIRCUITS CONTINUE TO EAST OF PROSPECT AVE.

IL ROUTE 19

EXISTING CIRCUITS CONTINUE TO PINE AVE

LOAD DATA:
250W, 240V LUMINAIRE: 1.15A/LUMINAIRE
400W, 240V LUMINAIRE: 1.85A/LUMINAIRE

LIGHTING CONTROLLER AT IL 19 AND WOOD DALE ROAD

RED			BLACK		
CIRCUIT	AMPS @ 240V	VA	CIRCUIT	AMPS @ 240V	VA
A	8.75	2,100	B	7.6	1,824
C	11.05	2,652	D	9.2	2,208
E	11.05	2,652	F	9.9	2,376
G	SPARE	SPARE	H	SPARE	SPARE
J	11.5	2,760	K	11.5	2,760
L	12.65	3,036	M	11.5	2,760
TOTAL	55	13,200	TOTAL	49.7	11,928
TOTAL LOAD		25,128			

NOTES:

1. LUMINAIRE WITH 400W RATING ARE INDICATED. REMAINING LUMINAIRES ARE 250W RATING.
2. PROPOSED LIGHTING UNITS ON CIRCUITS J, K, L AND M ARE ONLY SHOWN ON THIS WIRING DIAGRAM (ALL EXISTING LIGHTING UNITS ON THESE CIRCUITS ARE NOT SHOWN).

COMPANY NAME: AMES Engineering, Inc.
 PROJECT CONTACT: J. H. WIT
 DATE PLOTTED: 02/19/2015 7:50:00 PM
 FILE NAME: 023.Light-08.dgn
 PLOT DRIVER: pdfplot
 PEN TABLE: atfander-frames.tbl

AMES Engineering, Inc. CONSULTING ENGINEERS 1341 Warren Avenue Downers Grove, IL 60515	USER NAME = jhorwit FILE NAME = 023.Light-08.dgn PLOT SCALE = N.T.S. PLOT DATE = 2/19/2015	DESIGNED - BL DRAWN - RA/RY CHECKED - MB DATE - 2/2/2015	REVISED - REVISED - REVISED - REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED LIGHTING ONE LINE WIRING DIAGRAM

SCALE: N.T.S. SHEET NO. 8 OF 14 SHEETS STA. TO STA.

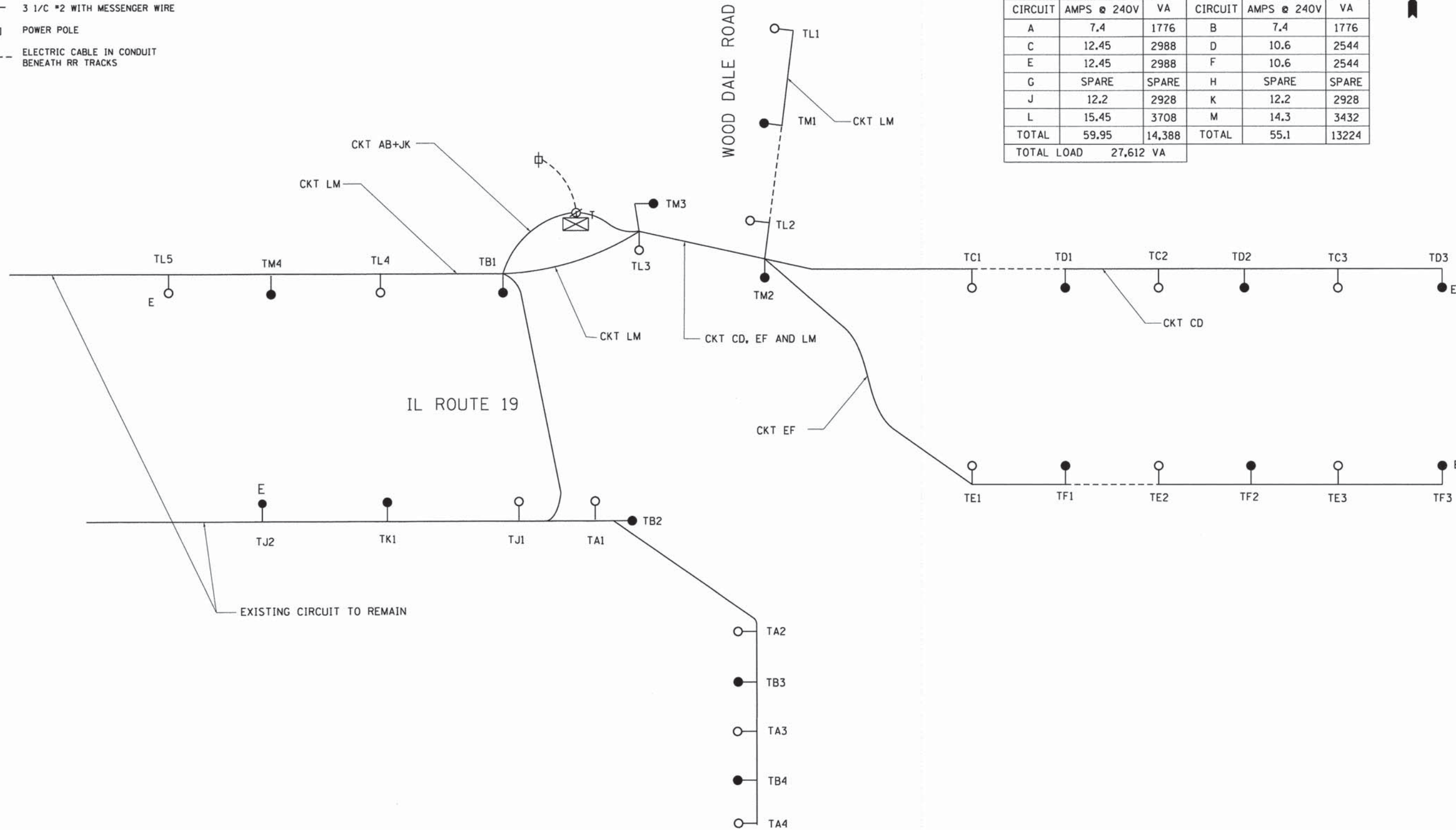
F.A.U. RTE. 1321	SECTION NO. 11-00048-00-SP	COUNTY DUPAGE	TOTAL SHEETS 277	SHEET NO. 202
CONTRACT NO. 63872				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

LEGEND

- LUMINAIRE, 400W HPS MCIII 240V, RED CIRCUIT
- LUMINAIRE, 400W HPS MCIII 240V, RED CIRCUIT, BLACK CIRCUIT
- ⊠ T TEMPORARY LIGHTING CONTROLLER
200 AMP - 240/480 VOLT, 1 PHASE
- 3 1/C #2 WITH MESSENGER WIRE
- ⊕ POWER POLE
- - - - - ELECTRIC CABLE IN CONDUIT
BENEATH RR TRACKS

TEMPORARY LIGHTING CONTROLLER AT IL 19 AND WOOD DALE ROAD

RED			BLACK		
CIRCUIT	AMPS @ 240V	VA	CIRCUIT	AMPS @ 240V	VA
A	7.4	1776	B	7.4	1776
C	12.45	2988	D	10.6	2544
E	12.45	2988	F	10.6	2544
G	SPARE	SPARE	H	SPARE	SPARE
J	12.2	2928	K	12.2	2928
L	15.45	3708	M	14.3	3432
TOTAL	59.95	14,388	TOTAL	55.1	13224
TOTAL LOAD		27,612 VA			



COMPANY NAME: AMES Engineering, Inc.
 PROJECT CONTACT: CONSULTING ENGINEERS
 DATE PLOTTED: 2/19/2015 10:56:07 AM
 PLOT SCALE: N.T.S.
 PLOT DRIVER: acplot
 PEN TABLE: standard-trans.tbl

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	PLOT DATE = 2/19/2015	DATE - 2/2/2015	REVISED -

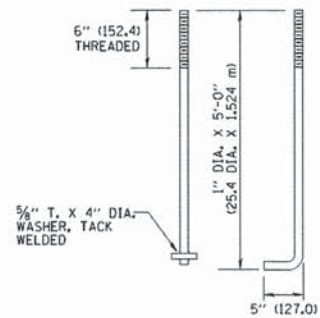
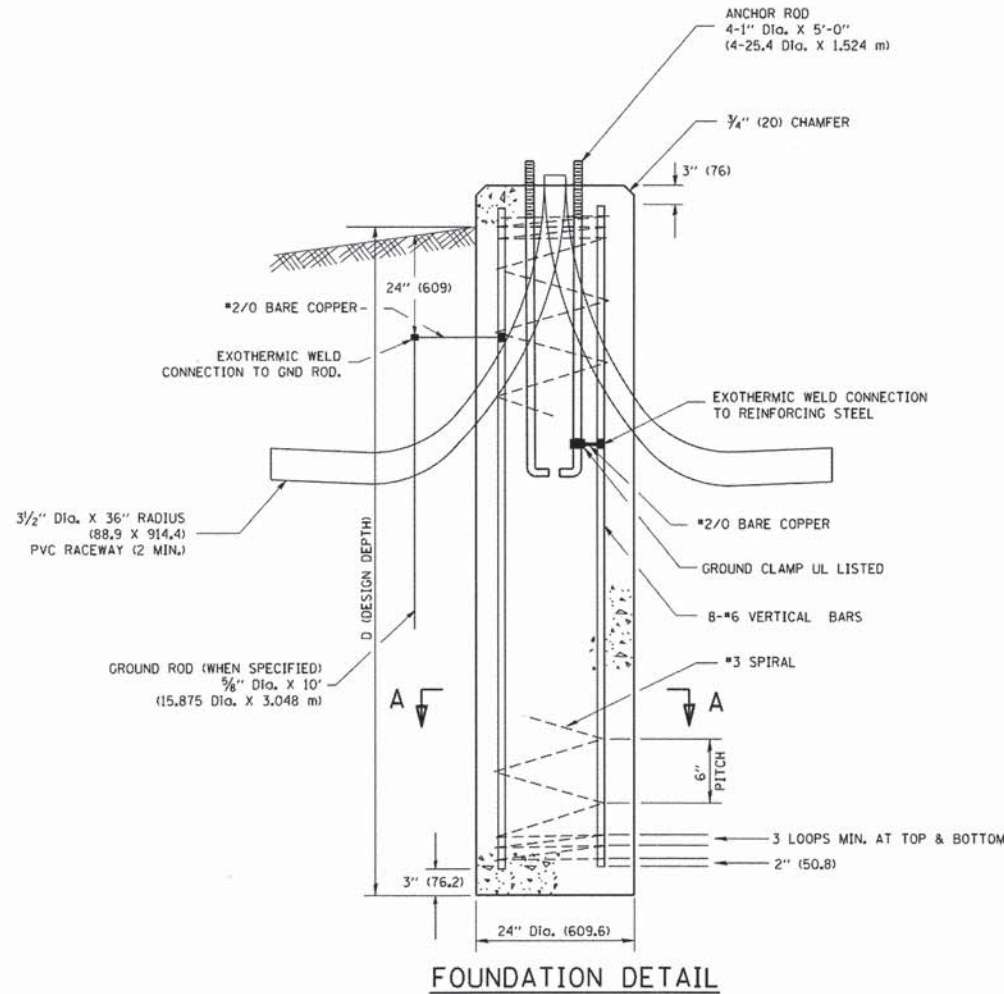
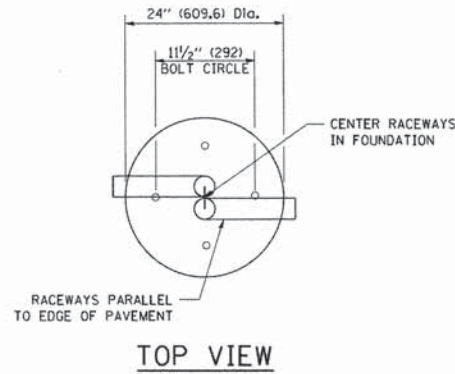
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING ONE LINE WIRING DIAGRAM
 SCALE: N.T.S. SHEET NO. 9 OF 14 SHEETS STA. TO STA.

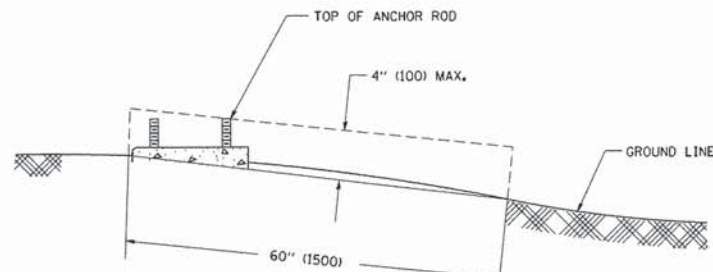
F.A.U. RTE. 1321	SECTION NO. 11-00048-00-SP	COUNTY DUPAGE	TOTAL SHEETS 277	SHEET NO. 203
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 63872		

LIGHT POLE FOUNDATION DEPTH TABLE
30 FT. (9.144 m) TO 35 FT. (10.668 m) MOUNTING HEIGHT

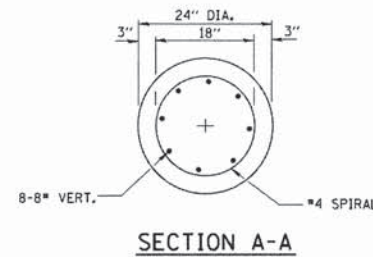
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Ou = 0.375 TON/SO. FT.	11'-0" (3.35 m)	12'-8" (3.85 m)
MEDIUM CLAY Ou = 0.75 TON/SO. FT.	9'-0" (2.74 m)	14'-10" (4.52 m)
STIFF CLAY Ou = 1.50 TON/SO. FT.	7'-6" (2.29 m)	8'-7" (2.61 m)
LOOSE SAND φ = 34°	9'-6" (2.90 m)	10'-7" (3.22 m)
MEDIUM SAND φ = 37.5°	9'-0" (2.74 m)	9'-10" (2.99 m)
DENSE SAND φ = 40°	8'-3" (2.51 m)	9'-7" (2.91 m)



ANCHOR BOLT DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A

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 4 IN. (100 mm) 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.

COMPANY NAME: AMES Engineering, Inc.
 PROJECT CONTACT: Jhorwit
 DATE: 2/19/2015
 FILE NAME: 023_light-10.dgn
 PLOT DRIVER: pdfplot
 STANDARD: Trans.tbl

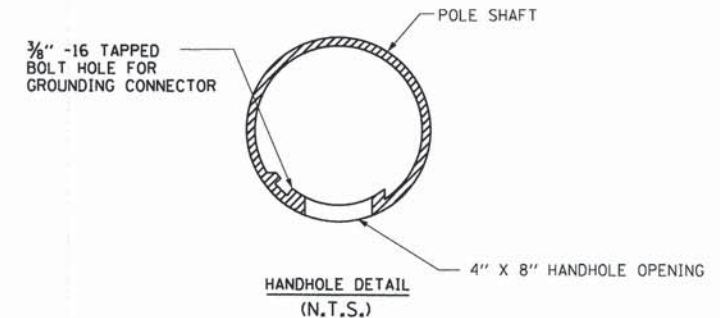
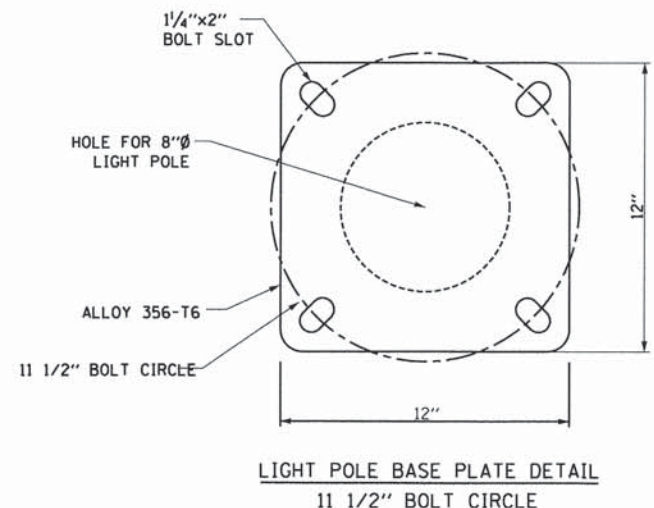
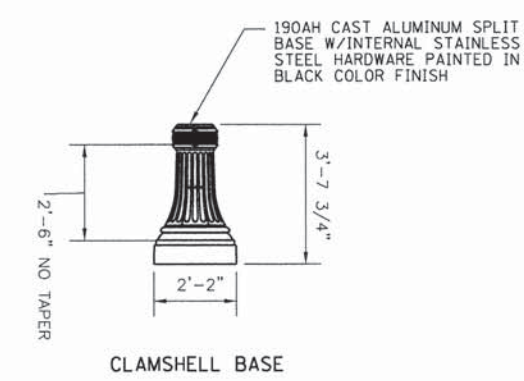
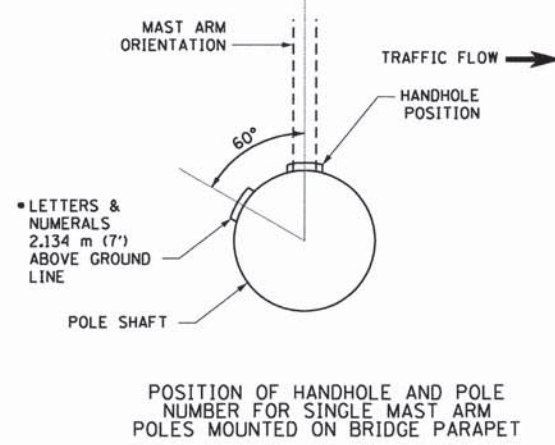
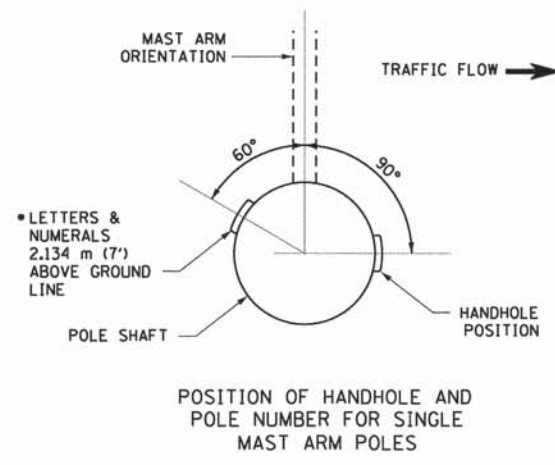
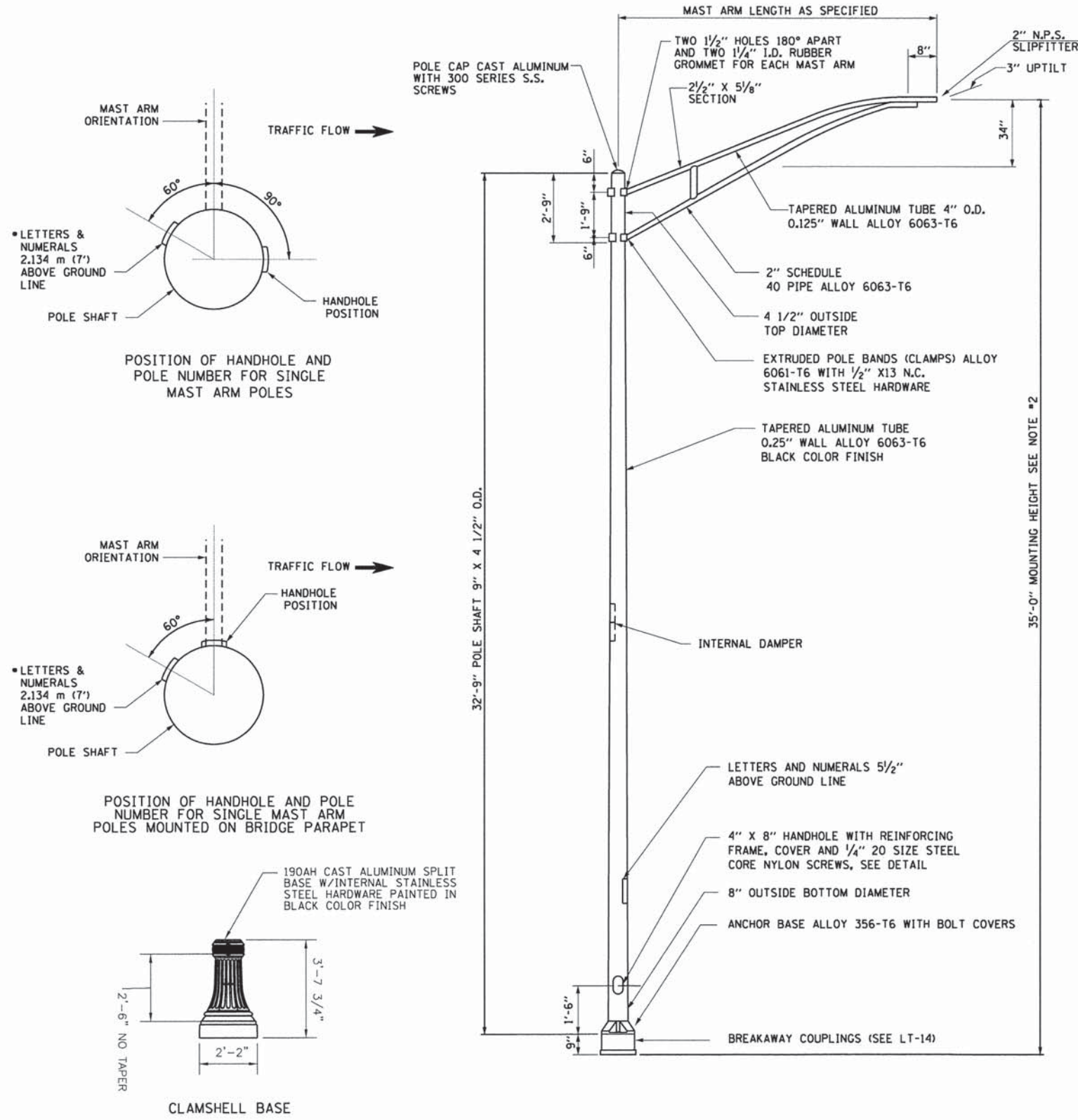
AMES Engineering, Inc. CONSULTING ENGINEERS 1341 Warren Avenue Downers Grove, IL 60515	USER NAME = jhorwit FILE NAME = 023_light-10.dgn PLOT SCALE = N.T.S. PLOT DATE = 2/19/2015	DESIGNED - BL DRAWN - RA/RY CHECKED - MB DATE - 2/2/2015	REVISED - REVISED - REVISED - REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION 11 1/2" BC
DETAILS

SCALE: N.T.S. SHEET NO. 10 OF 14 SHEETS STA. TO STA.

F.A.U. RTE. 1321	SECTION NO. 11-00048-00-SP	COUNTY DUPAGE	TOTAL SHEETS 277	SHEET NO. 204
CONTRACT NO. 63872				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



- NOTES:**
1. ALL DIMENSIONS ARE IN INCHES 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. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
 4. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T & B SP4DL OR APPROVED EQUAL.
 5. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
 6. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
 7. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.
 8. CLAMSHELL BASE AND BREAKAWAY COUPLINGS (AS SHOWN ON LT-14) TYPICAL FOR 35' MOUNTING HEIGHT POLE. CLAMSHELL BASE AND BREAKAWAY COUPLINGS SHALL BE CERTIFIED AS A BREAKAWAY DEVICE ACCORDING TO AASHTO 1985.
 9. CLAM SHELL BASE AND BREAKAWAY COUPLINGS SHALL BE INCLUDED IN COST OF THE LIGHT POLE, ALUMINUM, 35 FT, MH, 10 FT MAST ARM PAY ITEM.

COMPANY NAME: AMES Engineering, Inc.
 PROJECT CONTACT: J. Horvath
 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION
 DATE: 2/19/2015
 FILE NAME: 023.light-11.dgn
 PLOT DRIVERS: perf.plt
 PEN TABLE: standard-trans.tbl

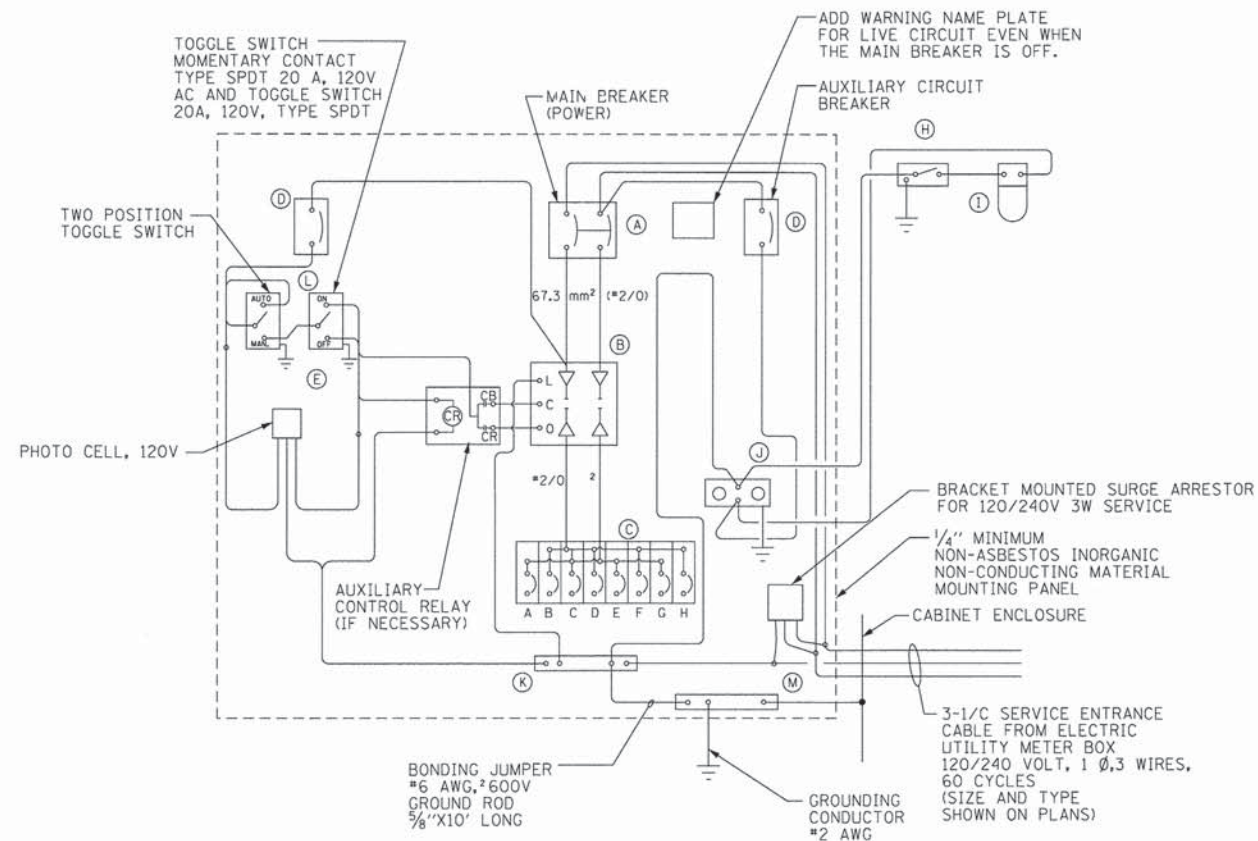
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DRAWN - RA/RV	REVISED -
CHECKED - MB	REVISED -
DATE - 2/2/2015	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ALUMINUM LIGHT POLE 35'-0" MOUNTING HEIGHT
 DETAILS**

SCALE: N.T.S. SHEET NO. 11 OF 14 SHEETS STA. TO STA.

F.A.U. RTE. 1321	SECTION NO. 11-00048-00-SP	COUNTY DUPAGE	TOTAL SHEETS 277	SHEET NO. 205
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63872	



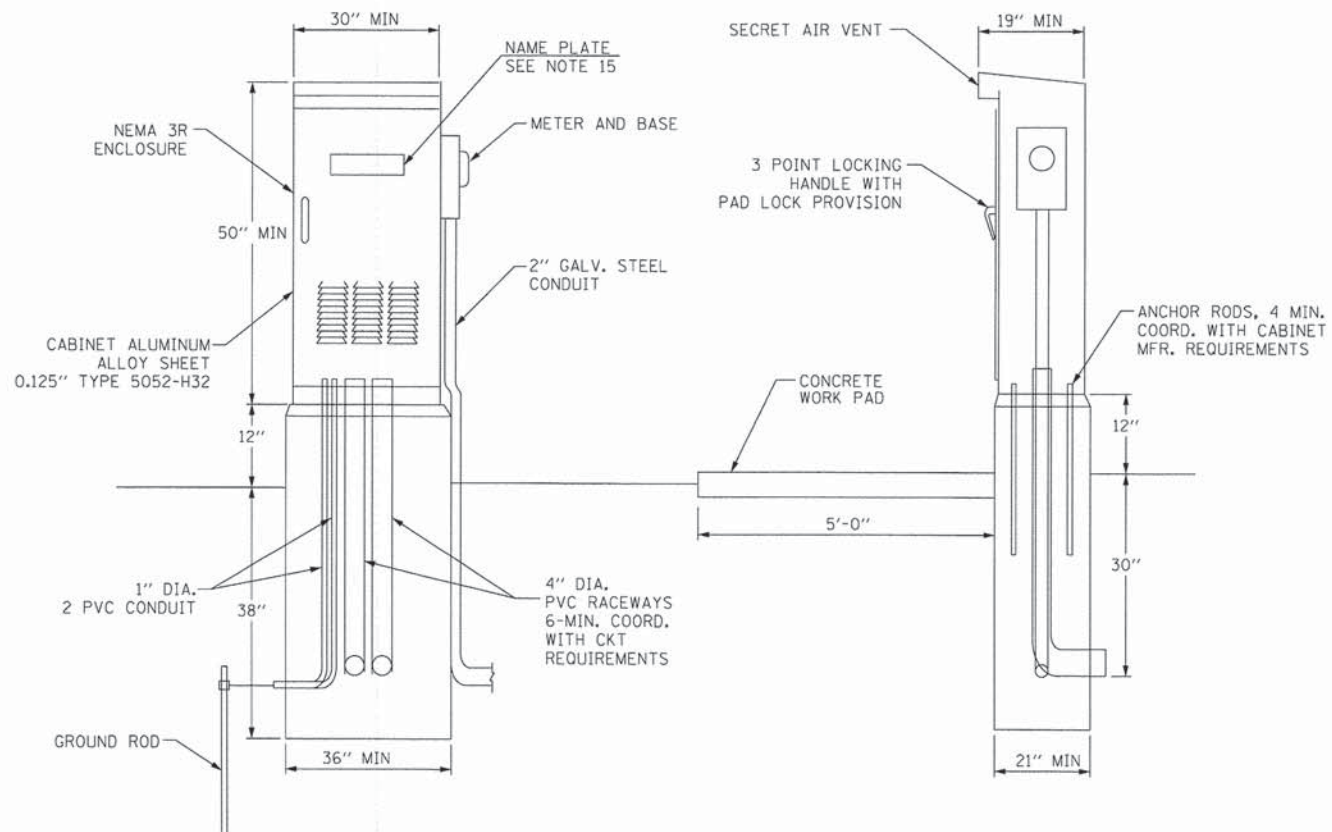
WIRING DIAGRAM

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.
- FOUNDATION SIZE SHALL BE COORDINATED WITH CABINET SIZE AND MFR.
- DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
- DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
- DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 6.35 mm (1/4") DIA. STAINLESS STEEL HINGE PIN.
- ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
- CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
- METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
- CABINETS SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN
- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- 304.8 mm (12") X 406.4 mm (16") STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "CITY OF WOOD DALE" UNLESS OTHERWISE SPECIFIED.
- SERVICE DISCONNECT SHOULD HAVE UL LABEL AND THE EQUIPMENT SHOULD BE SUITABLE FOR SERVICE ENTRANCE EQUIPMENT.
- FOUNDATION SHALL HAVE TWO SPARE CAPPED CONDUITS FOR FUTURE USE.

PANEL EQUIPMENT

BILL OF MATERIAL		
ITEM	QTY.	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 200AMP. FRAME, 200AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 240 VOLT.
B	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 200 AMP., 600 VOLTS CONTROL CIRCUITS 240 VOLT, ASCO 920.
C	10	CIRCUIT BREAKERS, 1 POLE, 240V., 100AMP. FRAME 50AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22,000 AMP. AT 120 V.
D	2	CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 240 V., 100AMP. FRAME, 15AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22,000 AMP. AT 120 V.
E	1	PHOTOCCELL, 120V
H	1	SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN.
I	1	INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP.
J	1	20 A., 120 V., DUPLEX RECEPTACLE, GFCI.
K	1	COPPER NEUTRAL BUS 6.35 mm (1/4") X 25.4 mm (1") X 304.8 mm (12") LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS.
L	1	TOGGLE SWITCHES MOUNTED IN 101.6 mm (4") X 101.6 mm (4") BOX.
M	1	COPPER GROUND BUS 6.35 mm (1/4") X 25.4 (1") 304.8 mm (12") LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS.
N	1	SURGE ARRESTOR



COMPANY NAME: AMES Engineering, Inc.
 PROJECT CONTACT: CONSULTING ENGINEERS
 CLIENT: #DATE# 7/5/2015 PM
 DATE PLOTTED: 023.light-12.dgn
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 PLOT DRIVER: pldrvr
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CHECKED - MB	REVISION -
DATE - 2/2/2015	REVISION -

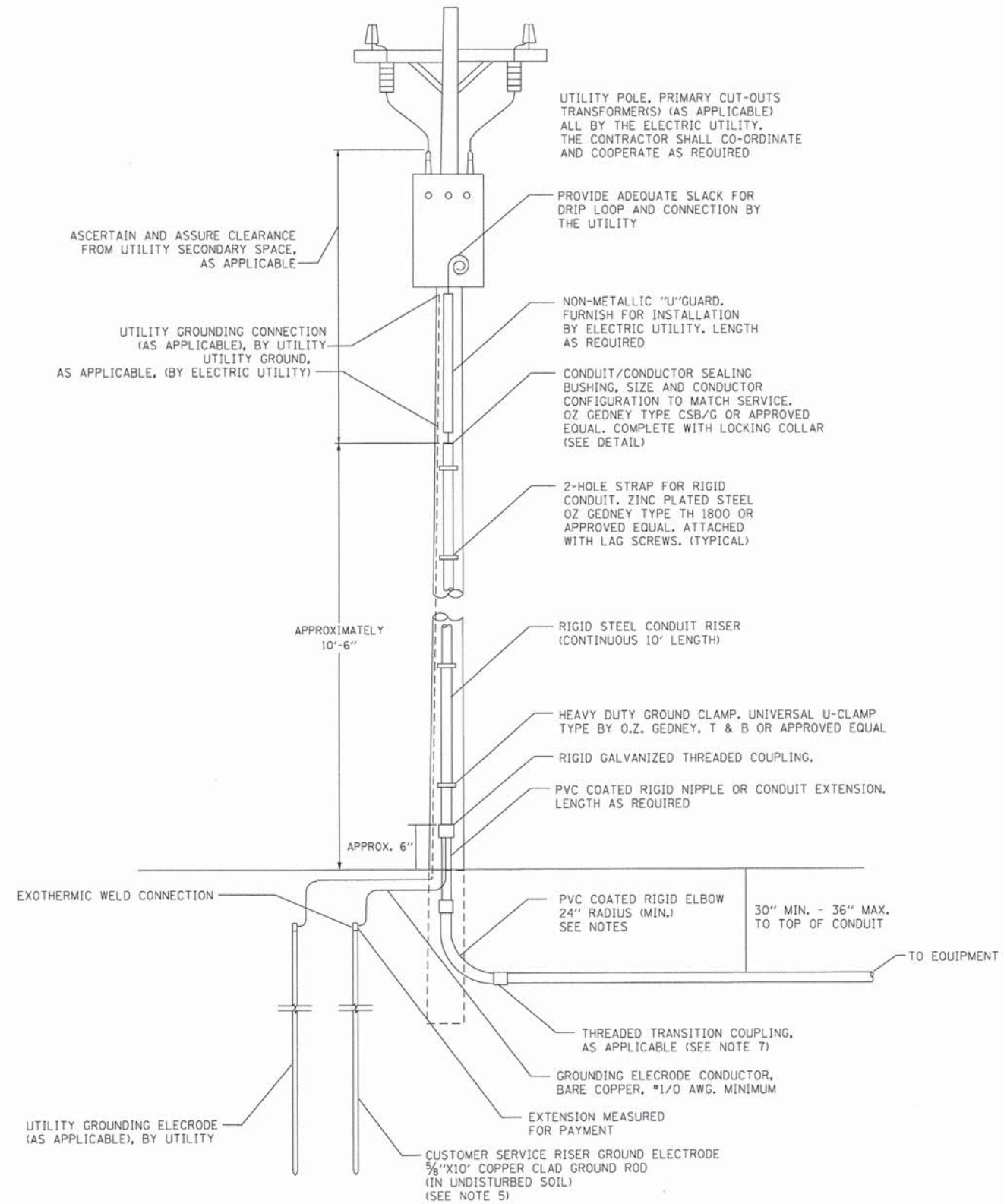
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LIGHTING CONTROLLER

SCALE: N.T.S. SHEET NO. 12 OF 14 SHEETS STA. TO STA.

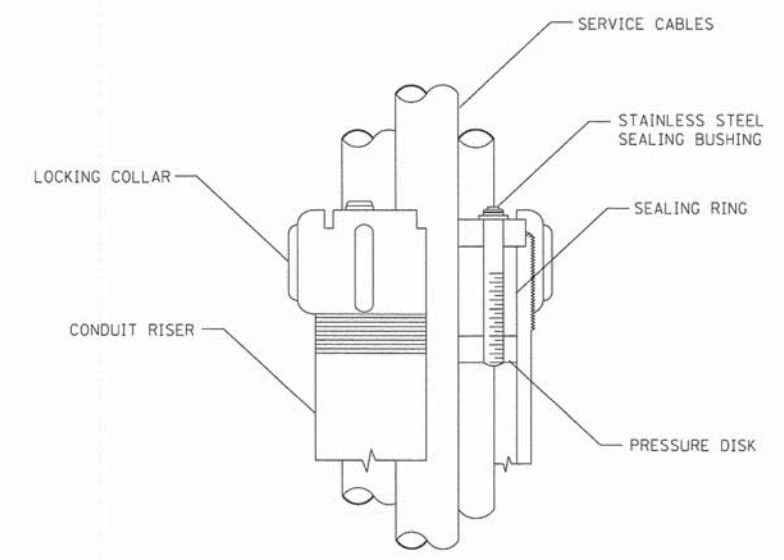
F.A.U. RTE. 1321	SECTION NO. 11-0048-00-SP	COUNTY DUPAGE	TOTAL SHEETS 277	SHEET NO. 206
CONTRACT NO. 63872				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

LT-12



NOTES:

1. SERVICE VOLTAGE SHALL BE 120/240V AS INDICATED ON SHEET LTG-02 AND 04.
2. UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF ELECTRIC UTILITY SERVICE INSTALLATION.
3. CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED.
4. PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
5. THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACK FILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
6. THE SERVICE METER SOCKET, AS APPLICABLE, MOUNTED ELSEWHERE AS INDICATED SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRICAL UTILITY SERVICE INSTALLATION PAY ITEM.
7. THE SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALLIC TO NON METALLIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
8. PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS, THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.



SEALING BUSHING DETAIL

COMPANY NAME: AMES Engineering, Inc.
 PROJECT CONTACT: Jhorwst
 DATE PLOTTED: 02/19/2015 10:58:08 AM
 FILE NAME: 023.light-13.dgn
 PLOT DRIVER: pdf.plt
 PEN TABLE: standard-trans.tbl

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 1341 Warren Avenue
 Downers Grove, IL 60515

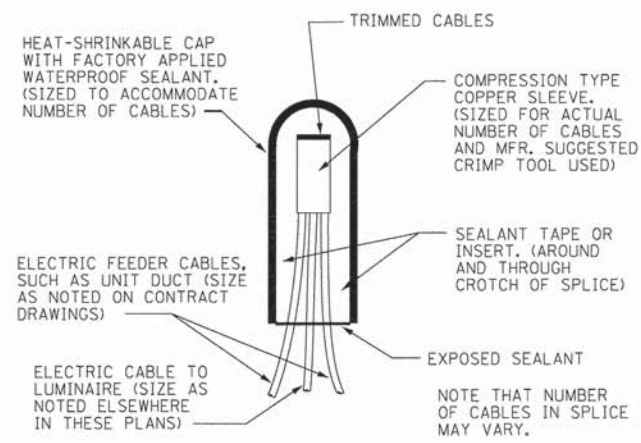
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FILE NAME = 023.light-13.dgn	DRAWN = RA/RV	REVISED =
PLOT SCALE = N.T.S.	CHECKED = MB	REVISED =
PLOT DATE = 2/19/2015	DATE = 2/2/2015	REVISED =

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

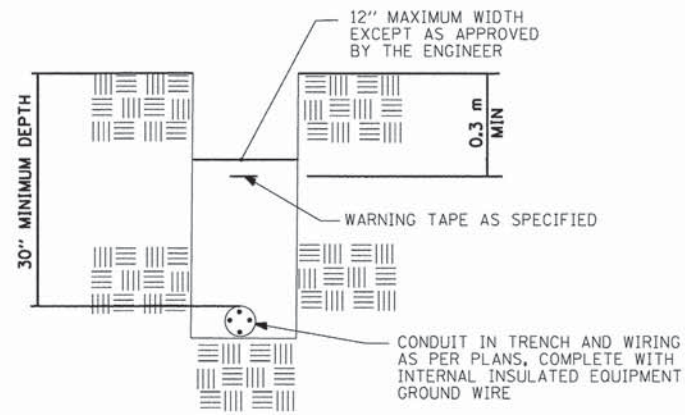
ELECTRIC SERVICE INSTALLATION

SCALE: N.T.S. SHEET NO. 13 OF 14 SHEETS STA. TO STA.

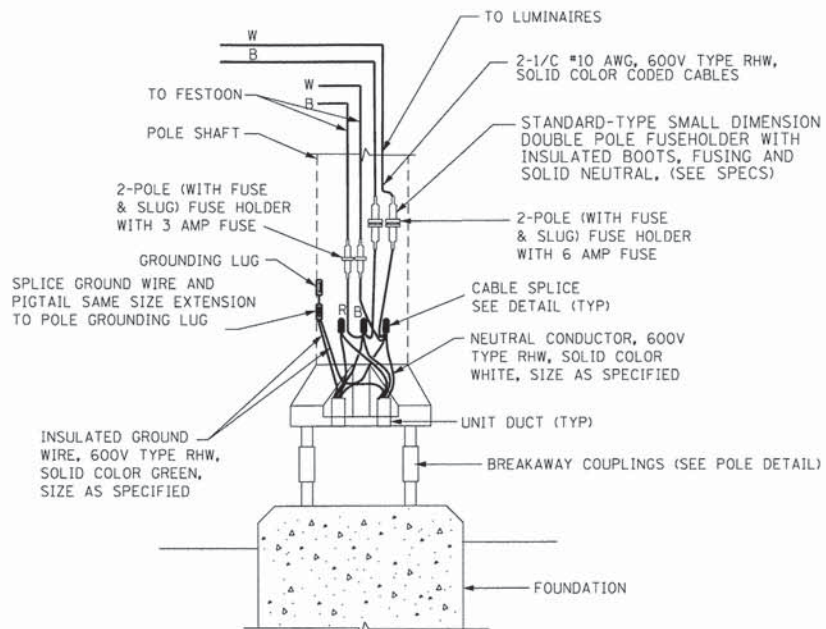
F.A.U. RTE. 1321	SECTION NO. 11-00048-00-SP	COUNTY DUPAGE	TOTAL SHEETS 277	SHEET NO. 207
CONTRACT NO. 63872				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



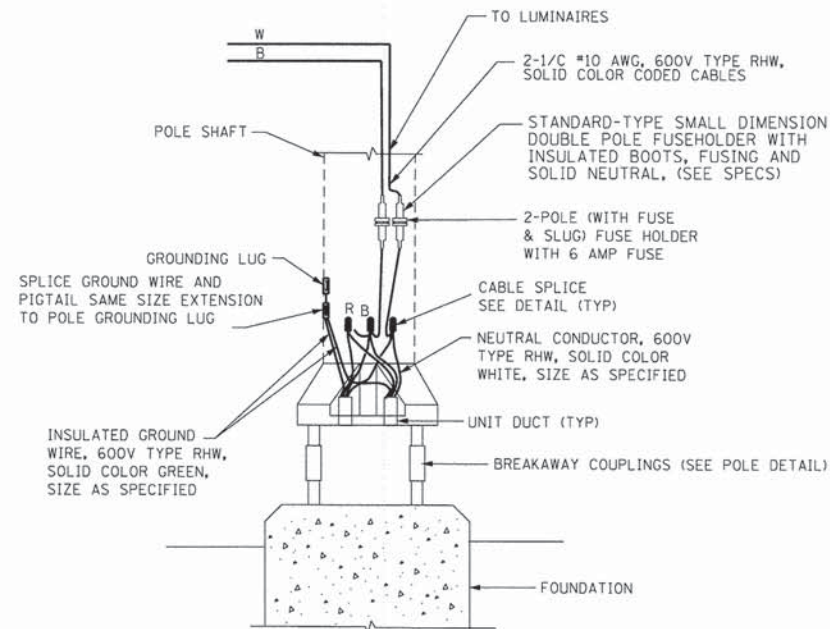
SPLICING DETAIL
N.T.S.



TYPICAL CONDUIT IN TRENCH DETAIL
N.T.S.



POLE BASE WIRING DIAGRAM - DECORATIVE POLE
N.T.S.



POLE BASE WIRING DIAGRAM - STANDARD POLE
N.T.S.

COMPANY NAME: AMES Engineering, Inc.
PROJECT CONTACT: CONSULTING ENGINEERS
DATE PLOTTED: 02/19/2015 10:58:42 AM
FILE NAME: 023.light-14.dgn
PLOT DRIVER: pdfplot
PEN TABLE: standard-trans.tbl

AMES Engineering, Inc.
CONSULTING ENGINEERS
1341 Warren Avenue
Downers Grove, IL 60515

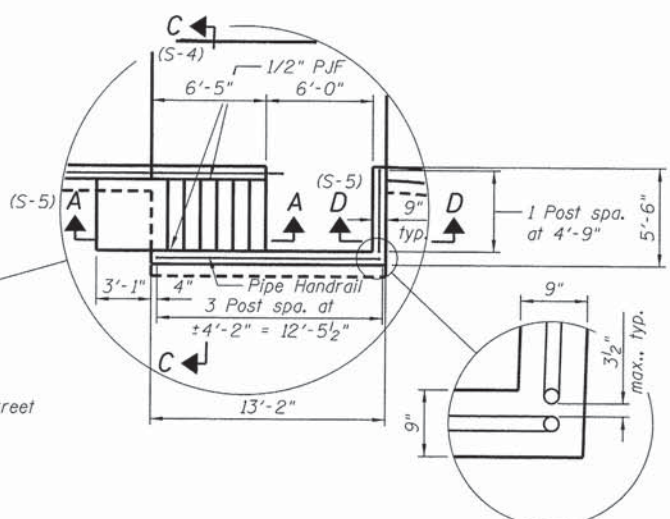
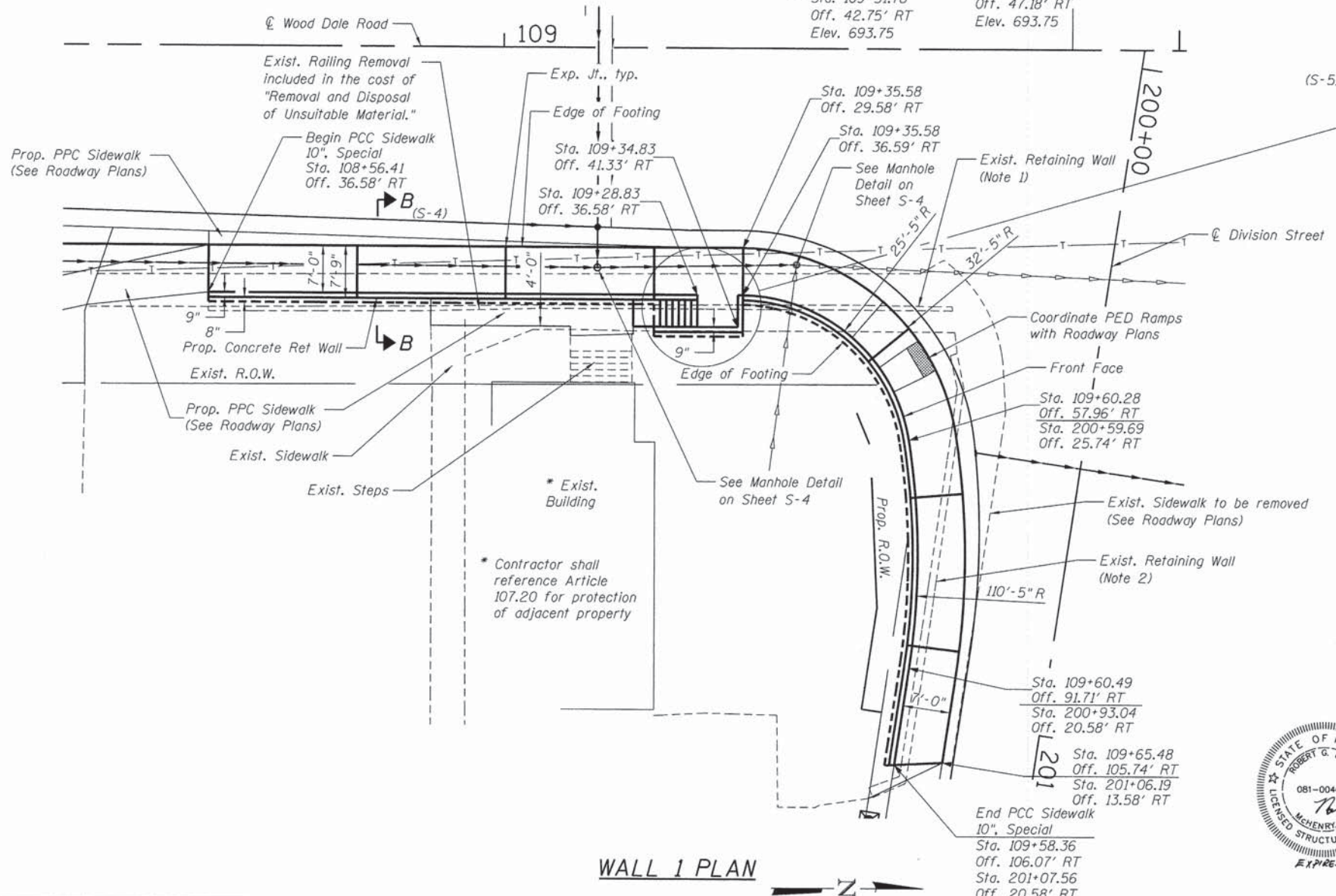
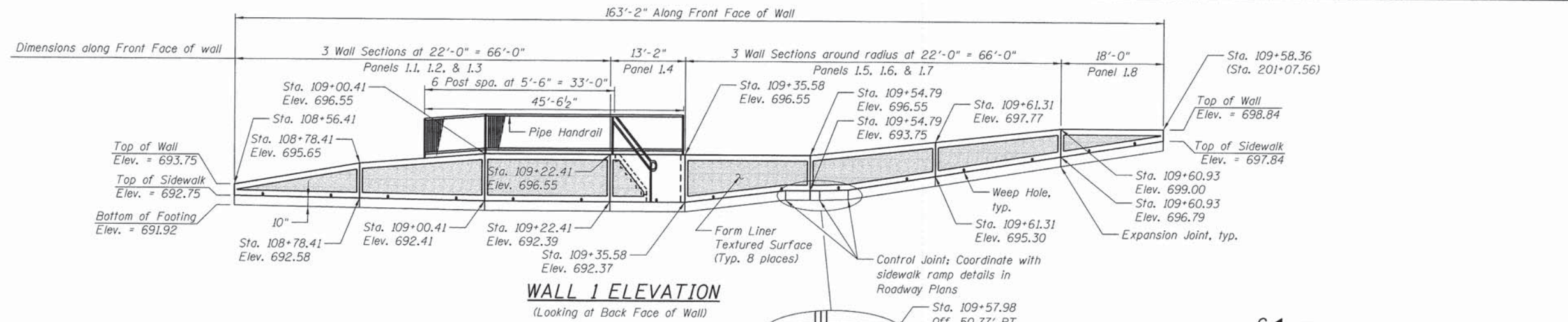
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PLOT DATE = 2/19/2015	DATE - 2/2/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

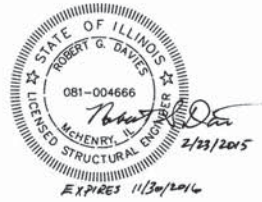
MISCELLANEOUS ELECTRICAL DETAILS

SCALE: N.T.S. SHEET NO. 14 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
1321	11-00048-00-SP	DUPAGE	277	208
CONTRACT NO. 63872				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



- Notes:
1. Removal and disposal of the existing 8" ±1" thick concrete walls shall be performed in accordance with the applicable portions of Section 501 of the Standard Specifications, and shall be included in the cost of "Removal and Disposal of Unsuitable Material." Removal shall extend only to the limits necessary for proposed improvements. See Roadway Typical Sections and Cross Sections for additional information.
 2. Removal and disposal of the existing 12" thick segmental block walls shall be performed in accordance with the applicable portions of Section 501 of the Standard Specifications, and shall be included in the cost of "Removal and Disposal of Unsuitable Material." Removal shall extend only to limits necessary for proposed improvements. See Roadway Typical Sections and Cross Sections for additional information.
 3. Stations and offsets provided at front face of wall unless noted otherwise.



RETAINING WALL 1
C.H. 28 (WOOD DALE ROAD)
SECTION NO. 11-00048-00-SP
DUPAGE COUNTY

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: jhorwit
 CLIENT: HRGreen
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 FILE NAME: 023_wall1.dgn
 PLOT SCALE: N.T.S.
 PLOT DATE: 2/19/2015

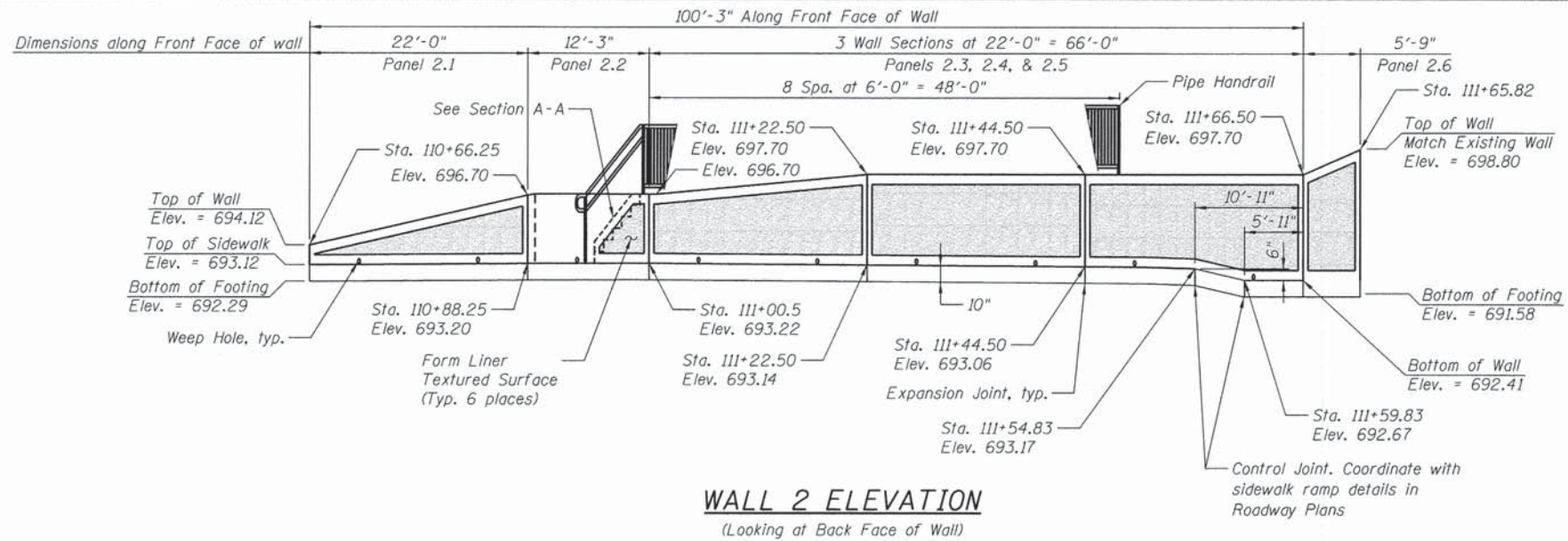


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FILE NAME = 023_wall1.dgn	DRAWN - WJH	REVISED -
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PLOT DATE = 2/19/2015	DATE - 2/2/2015	REVISED -

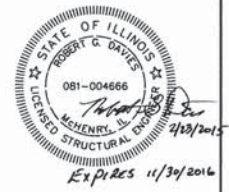
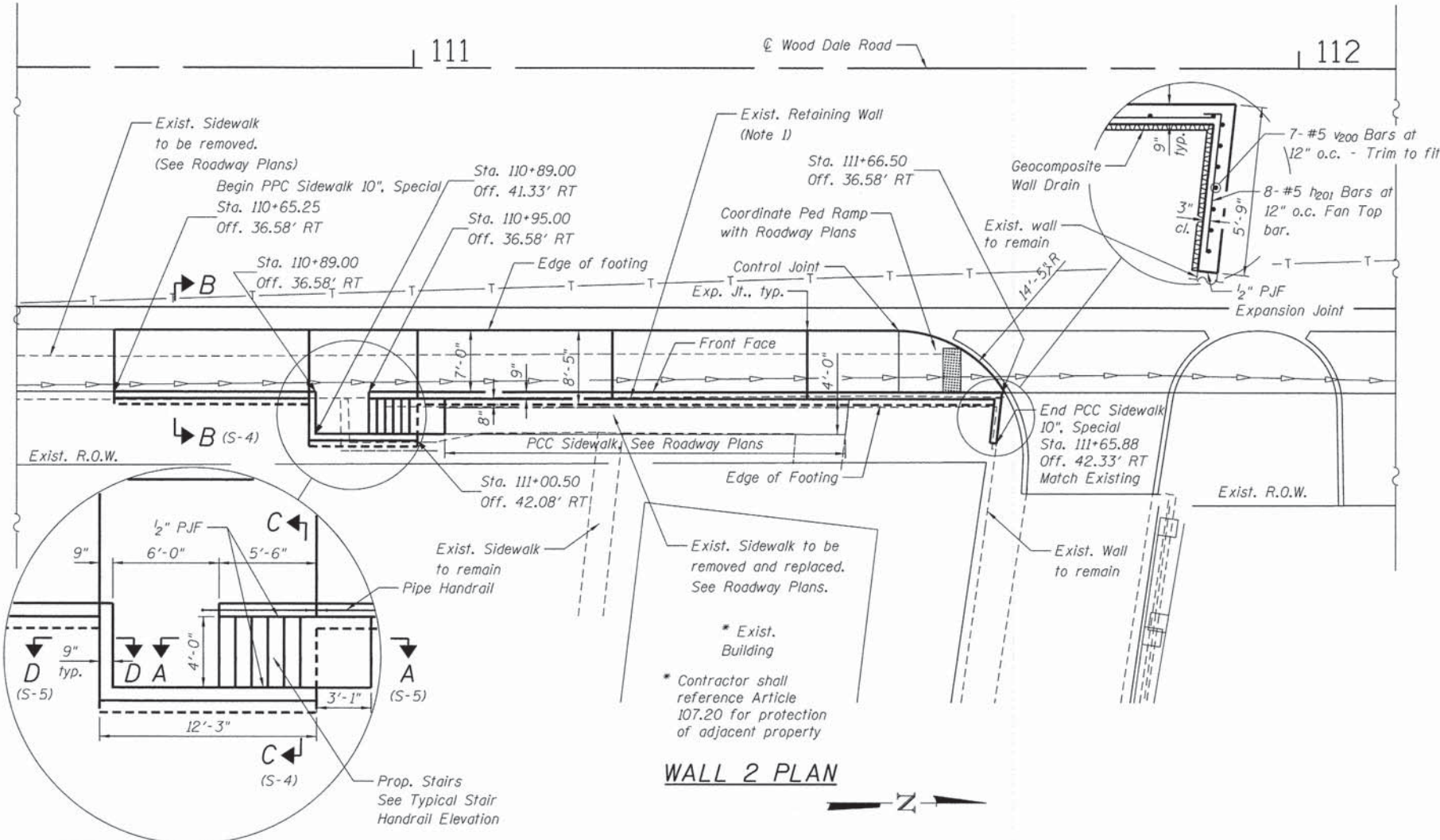
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: N.T.S. SHEET NO. S-1 OF S-5 SHEETS STA. N/A TO STA. N/A

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
1321	11-00048-00-SP	DUPAGE	277	209
CONTRACT NO. 63872				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



- Notes:
1. Removal and disposal of the existing 8" ± 1" thick concrete walls shall be performed in accordance with the applicable portions of Section 501 of the Standard Specifications, and shall be included in the cost of "Removal and Disposal of Unsuitable Material." Removal shall extend only to the limits necessary for proposed improvements. See Roadway Typical Sections and Cross Sections for additional information.
 2. Removal and disposal of the existing 12" thick segmental block walls shall be performed in accordance with the applicable portions of Section 501 of the Standard Specifications, and shall be included in the cost of "Removal and Disposal of Unsuitable Material." Removal shall extend only to limits necessary for proposed improvements. See Roadway Typical Sections and Cross Sections for additional information.
 3. Stations and offsets provided at front face of wall unless noted otherwise.



RETAINING WALL 2
C.H. 28 (WOOD DALE ROAD)
SECTION NO. 11-00048-00-SP
DUPAGE COUNTY

COMPANY NAME: HRGreen
 PROJECT CONTACT: J. Horvath
 DATE PLOTTED: 2/19/2015 7:56:58 PM
 PLOT DRIVER: jhorvath
 PEN TABLE: standard-trans.tbl

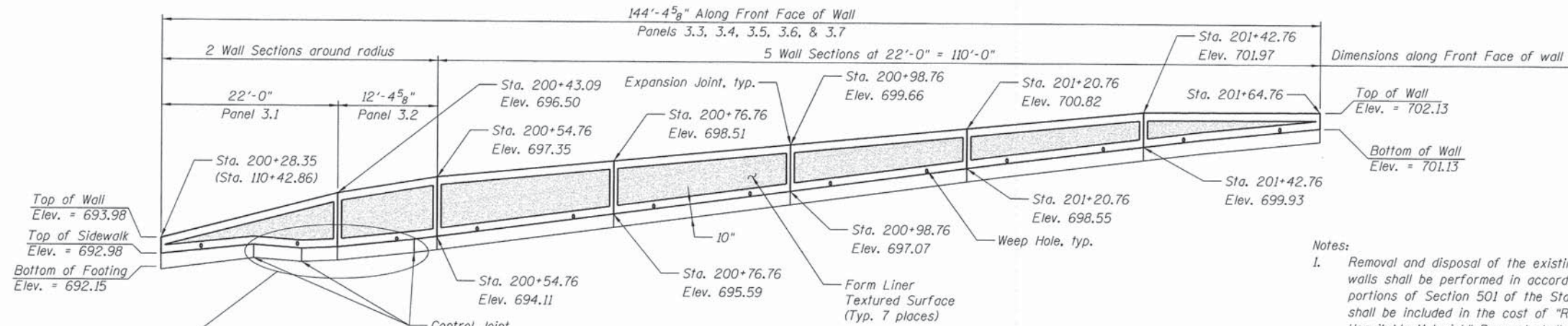
HRGreen.com
 Illinois Professional Design Firm
 # 184-001322

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PLOT SCALE = N.T.S.	CHECKED - DTH	REVISED -
PLOT DATE = 2/19/2015	DATE - 2/2/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

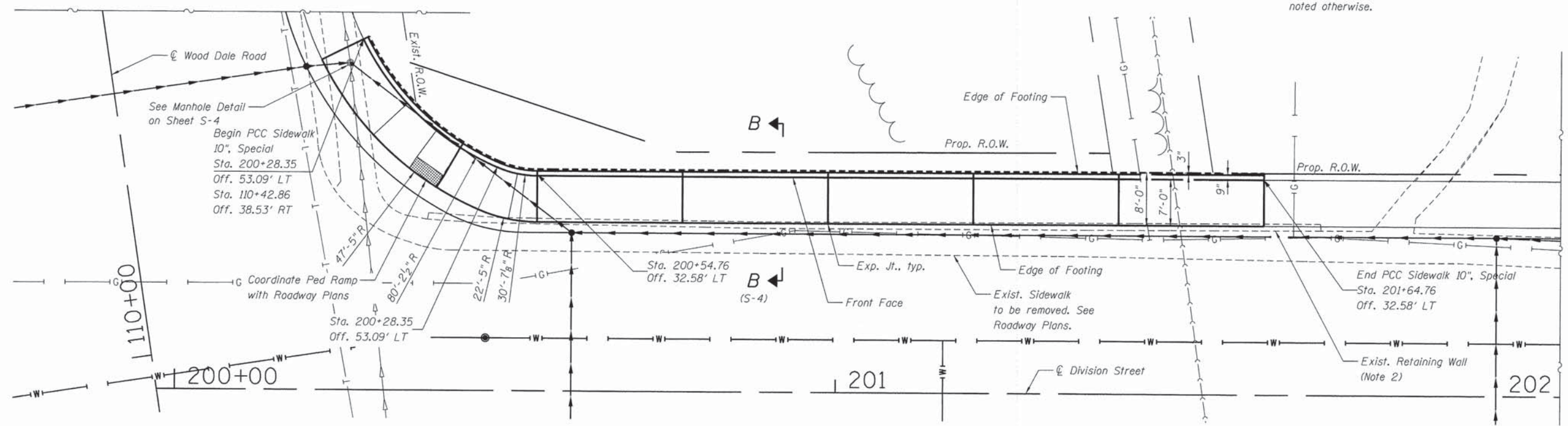
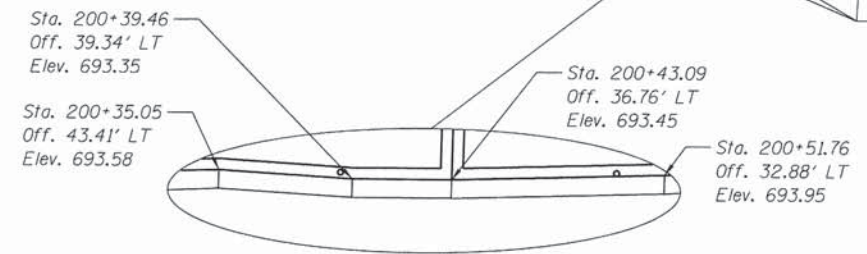
SCALE: N.T.S.	SHEET NO. S-2 OF S-5 SHEETS	STA. N/A	TO STA. N/A
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F.A.U. RTE. 1321	SECTION NO. 11-00048-00-SP	COUNTY DUPAGE	TOTAL SHEETS 277	SHEET NO. 210
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63872	



- Notes:
1. Removal and disposal of the existing 8" ± 1" thick concrete walls shall be performed in accordance with the applicable portions of Section 501 of the Standard Specifications, and shall be included in the cost of "Removal and Disposal of Unsuitable Material." Removal shall extend only to the limits necessary for proposed improvements. See Roadway Typical Sections and Cross Sections for additional information.
 2. Removal and disposal of the existing 12" thick segmental block walls shall be performed in accordance with the applicable portions of Section 501 of the Standard Specifications, and shall be included in the cost of "Removal and Disposal of Unsuitable Material." Removal shall extend only to limits necessary for proposed improvements. See Roadway Typical Sections and Cross Sections for additional information.
 3. Stations and offsets provided at front face of wall unless noted otherwise.

WALL 3 ELEVATION
(Looking at Front Face of Wall)



WALL 3 PLAN



RETAINING WALL 3
DIVISION STREET
SECTION NO. 11-00048-00-SP
DUPAGE COUNTY

COMPANY NAME: HRGreen
PROJECT CONTACT: HRGreen.com
DATE PLOTTED: 2/19/2015
FILE NAME: 023_wal103.dgn
PLOT SCALE: N.T.S.
PEN TABLES

USER NAME = jhorwit	DESIGNED - SEC	REVISED -
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PLOT DATE = 2/19/2015	DATE - 2/2/2015	REVISED -

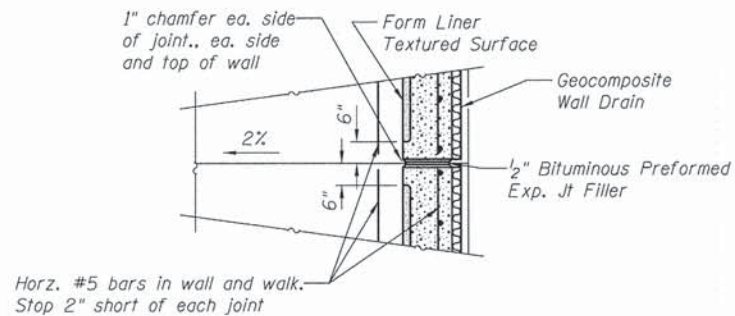
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: N.T.S. SHEET NO. S-3 OF S-5 SHEETS STA. N/A TO STA. N/A

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
1321	11-00048-00-SP	DUPAGE	277	211
CONTRACT NO. 63872				

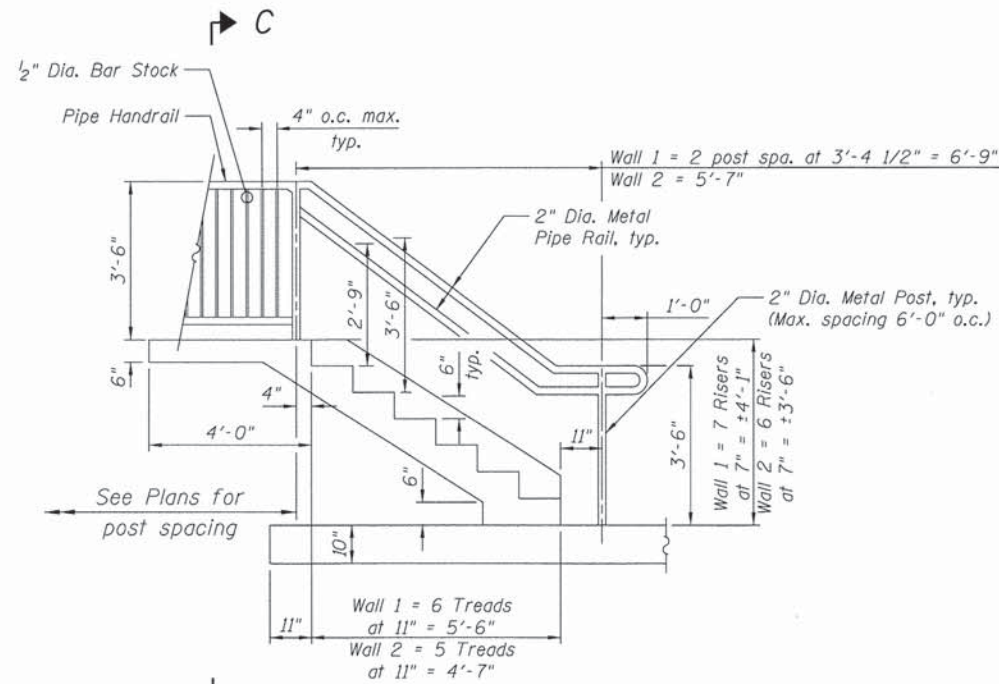
Notes: PCC Sidewalk 10", Special)

1. Reinforcing Bars shall be furnished in conformance with Section 508. Cost to furnish and place reinforcing bars shall be included in the contract unit price per square foot of PCC Sidewalk 10", Special. Only the n(E) bars shall be epoxy coated.
2. The wall and sidewalk portions of PCC Sidewalk 10", Special shall be constructed in accordance with Section 503 (for wall, and reinforcing bar placement) and Section 424 for the slab portion).
3. Two (2) pvc weep holes (1 3/4" or 2" diameter schedule 40 pvc) shall be furnished for each wall panel. The weep holes shall be located 5'-0" from each end or joint. Bottom of weep hole shall be 1/4" to 3/4" above the sidewalk surface. Cost included in PCC Sidewalk 10", Special.
4. Trim bars to fit.
5. Pipe handrail shall be fabricated such that spindles and rail posts are vertical and top and bottom rails match slope of wall to which handrail section will be mounted. Post spacing shall not exceed spacing shown. Clear openings between posts or spindles shall not exceed 4".
6. Form Liner shall have a maximum relief of 3/8", pattern as listed below or equivalent:
 - a. Custom Rock pattern T321 (Bush Hammer)
 - b. Fitzgerald pattern 16992 (Heavy Sandblast)
 - c. Greenstreak pattern 350 (Split Face Texture)

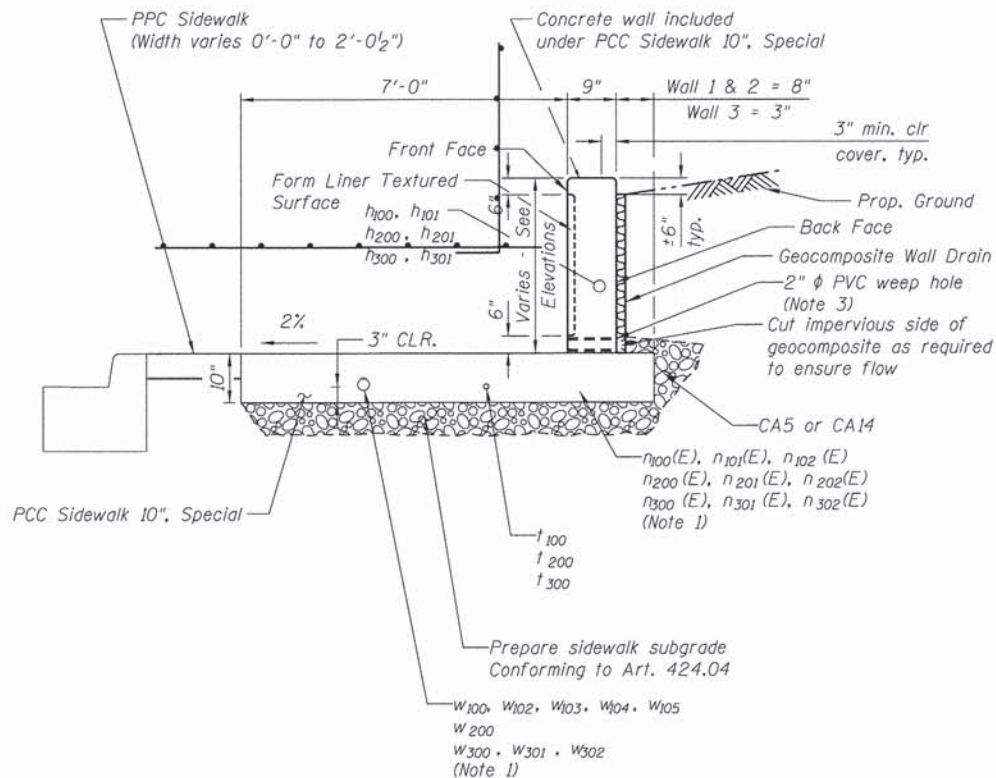


PCC Sidewalk 10", Special

Expansion Joint Detail
See Elevation for Joint Spacing

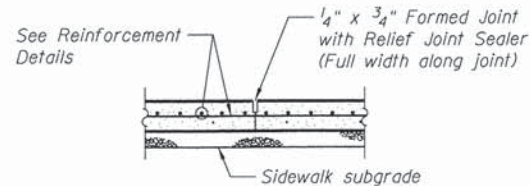


TYPICAL STAIR HANDRAIL ELEVATION

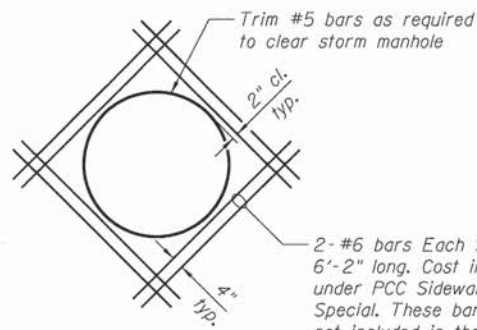


SECTION B-B

Typical Section

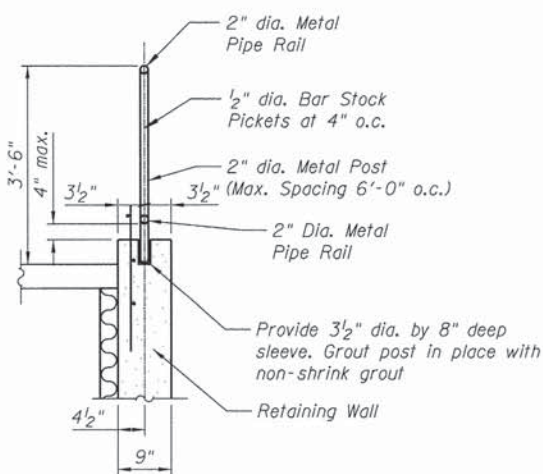


TYPICAL CONTROL JOINT



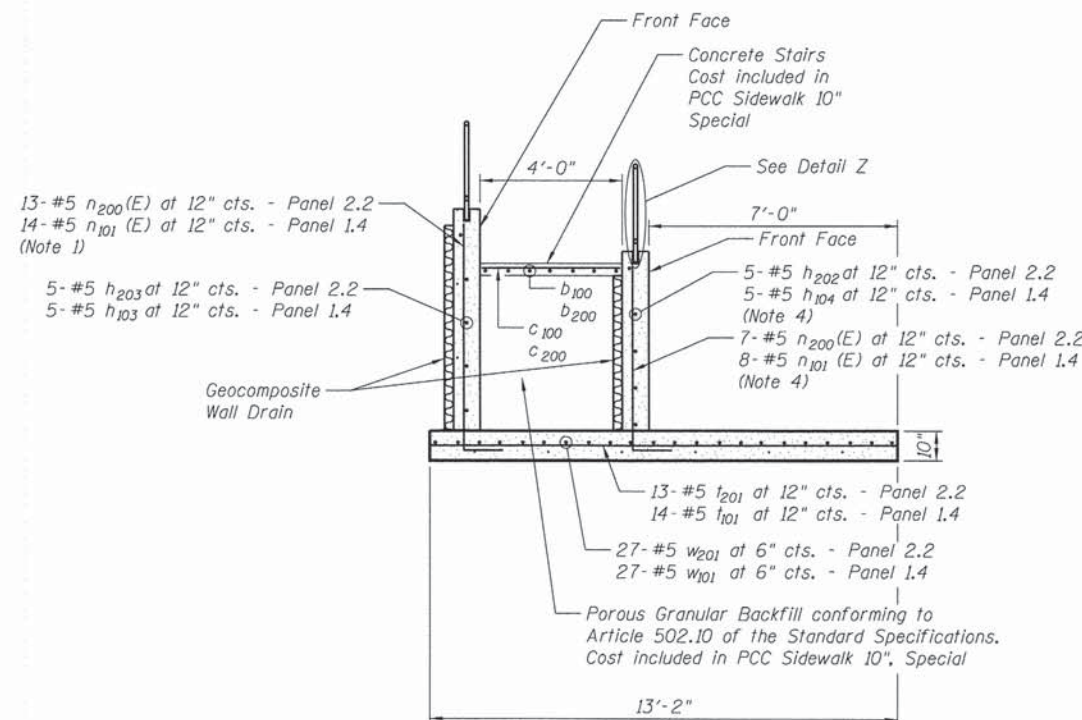
MANHOLE DETAIL

Typical



DETAIL Z

Pipe Handrail at stairs



SECTION C-C

COMPANY NAME: HRGreen
PROJECT CONTACT: HRGreen
CLIENT CONTACTED: HRGreen
FILE NAME: 023_wal104.dgn
PLOT DRIVER: pefplot
PEN TABLE: standard-frans.tbl



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FILE NAME = 023_wal104.dgn	DRAWN - WJH	REVISED -
PLOT SCALE = N.T.S.	CHECKED - DTH	REVISED -
PLLOT DATE = 2/19/2015	DATE - 2/2/2015	REVISED -

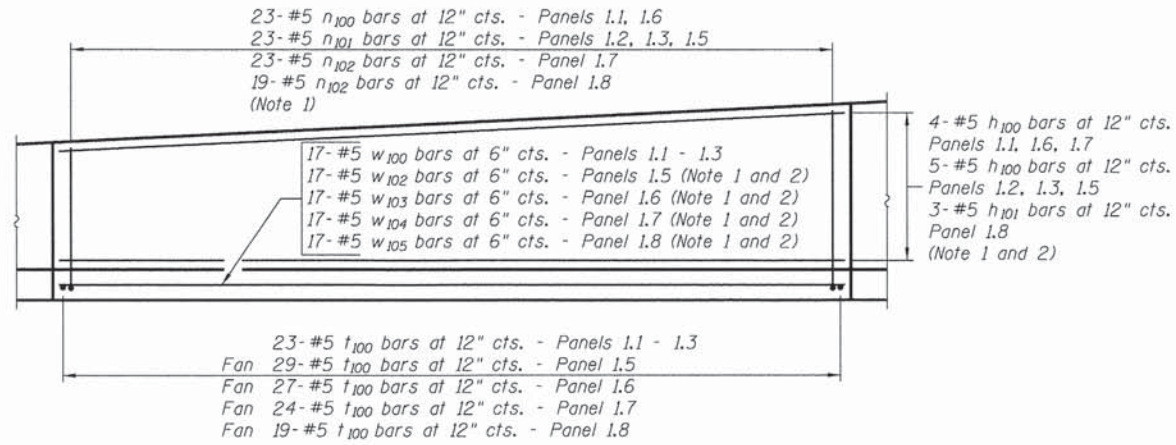
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF WOOD DALE DETAILS
RETAINING WALL DETAILS

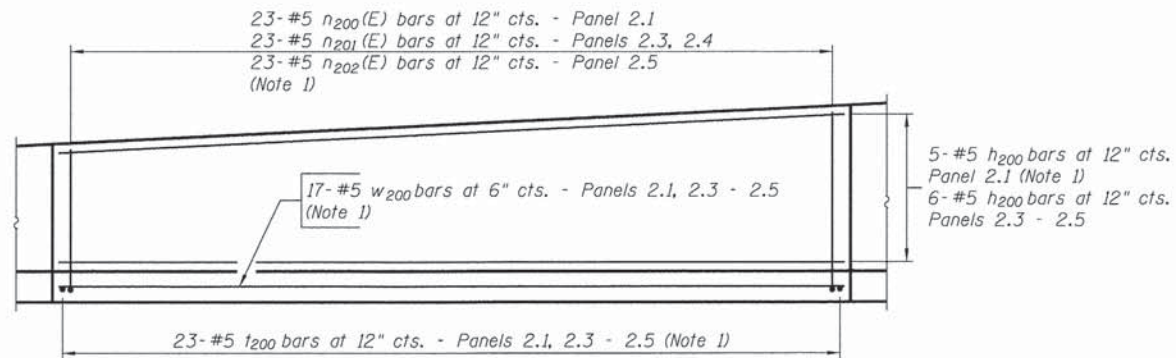
SCALE: N.T.S. SHEET NO. S-4 OF S-5 SHEETS STA. N/A TO STA. N/A

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
1321	11-00048-00-SP	DUPAGE	277	212
CONTRACT NO. 63872				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

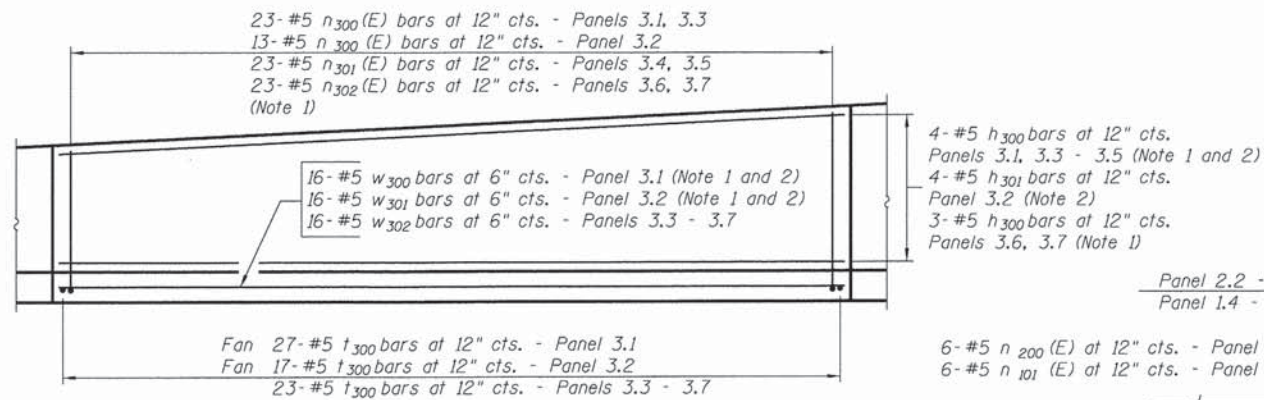
RETAINING WALL 1



WALL 1 TYPICAL PANEL ELEVATION



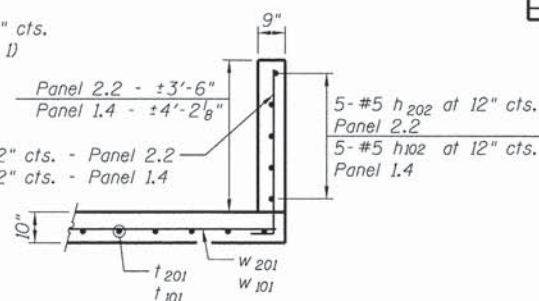
WALL 2 TYPICAL PANEL ELEVATION



WALL 3 TYPICAL PANEL ELEVATION

Bar	No.	Size	Length	Shape
D ₁₀₀	9	#5	6'-6"	—
C ₁₀₀	8	#5	3'-8"	—
h ₁₀₀	27	#5	21'-8"	—
h ₁₀₁	3	#5	17'-8"	—
h ₁₀₂	5	#5	5'-2"	—
h ₁₀₃	5	#5	12'-10"	—
h ₁₀₄	5	#5	6'-1"	—
n _{100(E)}	46	#5	4'-4"	J
n _{101(E)}	97	#5	5'-5"	J
n _{102(E)}	42	#5	3'-9"	J
S ₁₀₀	5	#5	5'-6"	—
S ₁₀₁	5	#5	2'-8"	—
t ₁₀₀	168	#5	8'-1"	—
t ₁₀₁	14	#5	12'-10"	—
W ₁₀₀	51	#5	21'-8"	—
W ₁₀₁	27	#5	12'-10"	—
W ₁₀₂	17	#5	27'-10"	—
W ₁₀₃	17	#5	25'-11"	—
W ₁₀₄	17	#5	23'-1"	—
W ₁₀₅	17	#5	17'-8"	—
Reinforcement Bars			Pound	5,710
Reinforcement Bars, Epoxy Coated			Pound	930
PCC Sidewalk 10", Special			SQ. Ft.	1,495
Pipe Handrail			Foot	58
Geocomposite Wall Drain			SQ. Yd.	52
Form Liner Textured Surface			SQ. Ft.	277

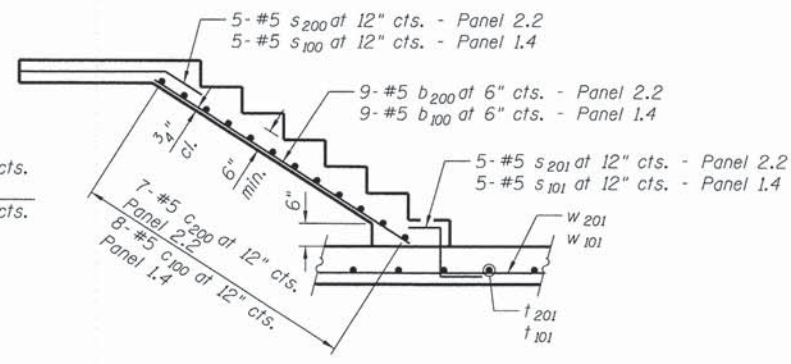
Notes:
 1. Trim bars to fit
 2. Curve bars in field to match radius shown on Wall Plan View



SECTION D-D

RETAINING WALL 2

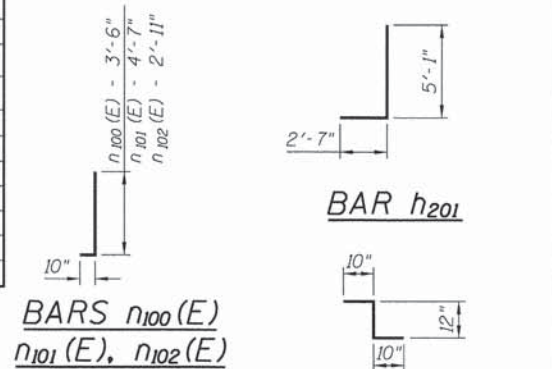
Bar	No.	Size	Length	Shape
D ₂₀₀	9	#5	5'-6"	—
C ₂₀₀	7	#5	3'-8"	—
h ₂₀₀	23	#5	21'-8"	—
h ₂₀₁	8	#5	7'-8"	J
h ₂₀₂	10	#5	5'-2"	—
h ₂₀₃	5	#5	11'-11"	—
n _{200(E)}	49	#5	4'-9"	J
n _{201(E)}	46	#5	5'-11"	J
n _{202(E)}	23	#5	6'-7"	J
S ₂₀₀	5	#5	5'-6"	—
S ₂₀₁	5	#5	2'-8"	—
t ₂₀₀	92	#5	8'-1"	—
t ₂₀₁	13	#5	12'-10"	—
W ₂₀₀	68	#5	21'-8"	—
W ₂₀₁	27	#5	11'-11"	—
Reinforcement Bars			Pound	3,690
Reinforcement Bars, Epoxy Coated			Pound	690
PCC Sidewalk 10", Special			SQ. Ft.	897
Pipe Handrail			Foot	55
Geocomposite Wall Drain			SQ. Yd.	34
Form Liner Textured Surface			SQ. Ft.	278



SECTION A-A

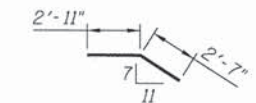
RETAINING WALL 3

Bar	No.	Size	Length	Shape
n ₃₀₀	23	#5	21'-8"	—
n ₃₀₁	4	#5	12'-1"	—
n _{300(E)}	59	#5	4'-7"	J
n _{301(E)}	46	#5	4'-2"	J
n _{302(E)}	46	#5	3'-6"	J
t ₃₀₀	159	#5	7'-8"	—
W ₃₀₀	16	#5	26'-0"	—
W ₃₀₁	16	#5	16'-0"	—
W ₃₀₂	80	#5	21'-8"	—
Reinforcement Bars			Pound	4,360
Reinforcement Bars, Epoxy Coated			Pound	650
PCC Sidewalk 10", Special			SQ. Ft.	1,185
Geocomposite Wall Drain			SQ. Yd.	34
Form Liner Textured Surface			SQ. Ft.	192

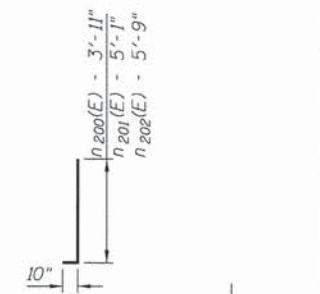


BARS n_{100(E)}, n_{101(E)}, n_{102(E)}

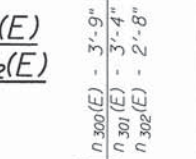
BARS s₁₀₁, s₂₀₁



BARS s₁₀₀, s₂₀₀



BARS n_{200(E)}, n_{201(E)}, n_{202(E)}



BARS n_{300(E)}, n_{301(E)}, n_{302(E)}

COMPANY NAME: HRGreen
 PROJECT CONTACT: jhorwit
 DATE: 2/19/2015
 FILE NAME: 023_wal105.dgn
 PLOT DRIVER: pdf.plt
 PEN TABLE: standard-trans.tbl

HRGreen.com
 Illinois Professional Design Firm
 #184-001322

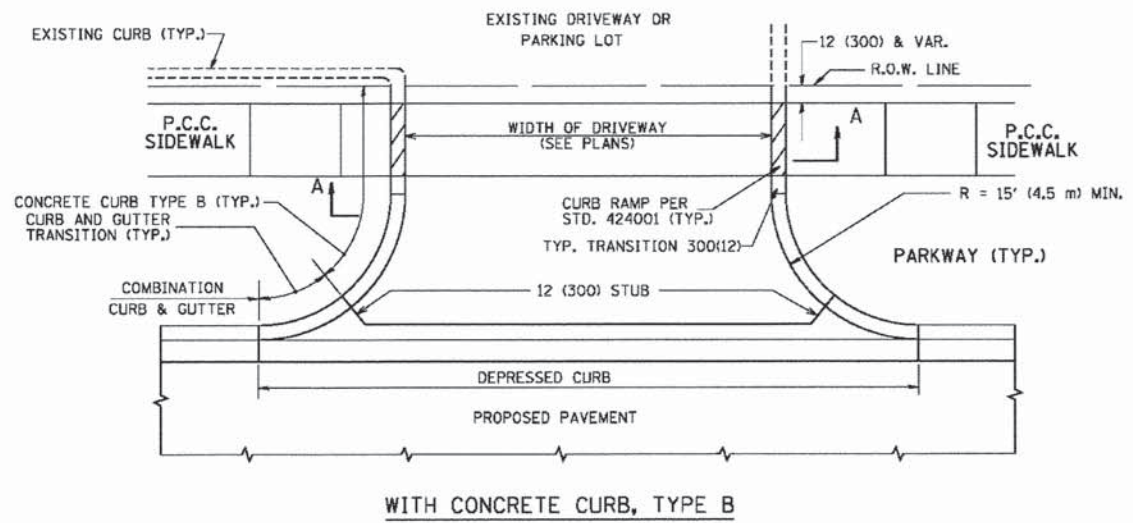
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PLOT DATE = 2/19/2015	DATE - 2/2/2015	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

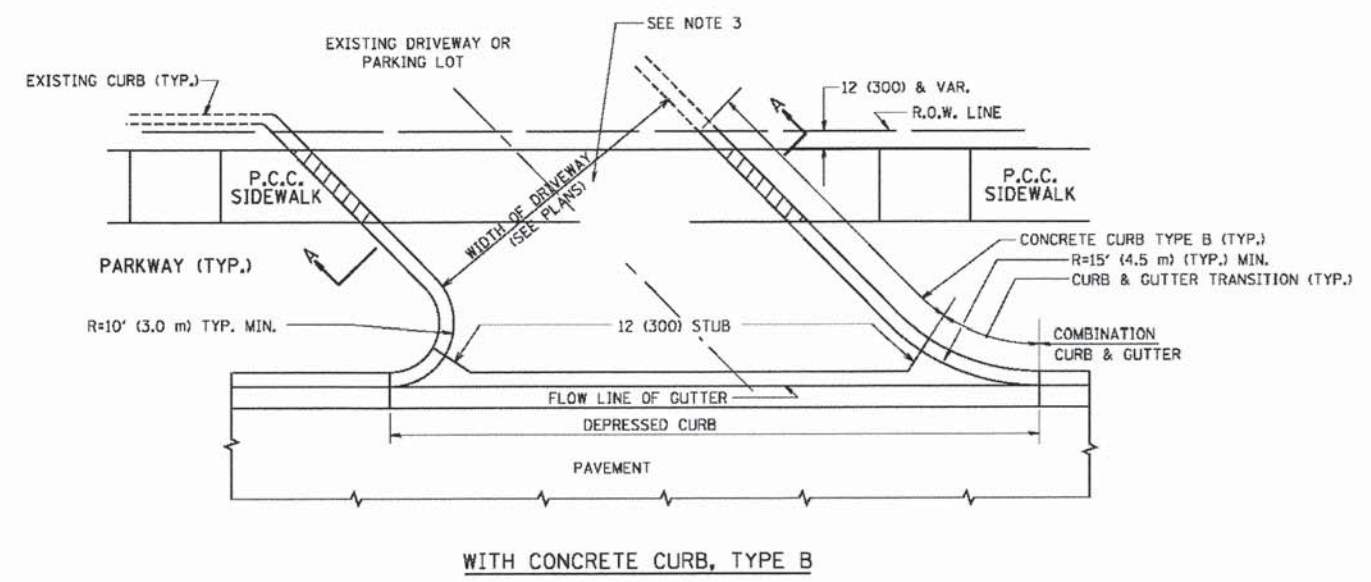
CITY OF WOOD DALE DETAILS
 RETAINING WALL DETAILS

SCALE: N.T.S. SHEET NO. 5-5 OF 5-5 SHEETS STA. N/A TO STA. N/A

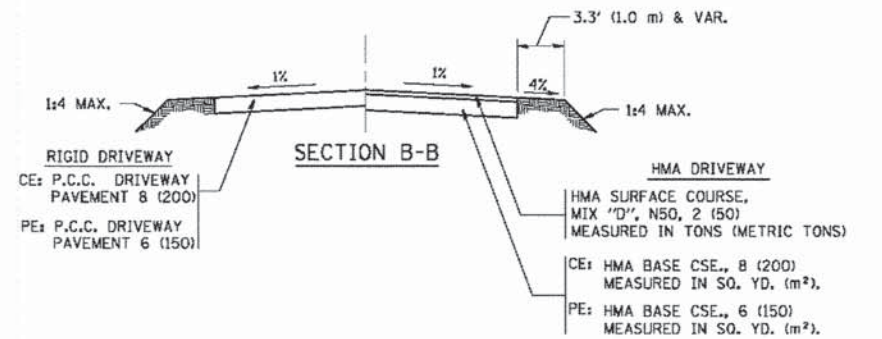
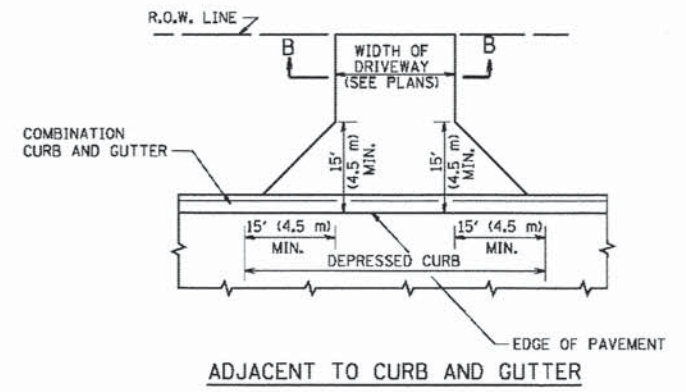
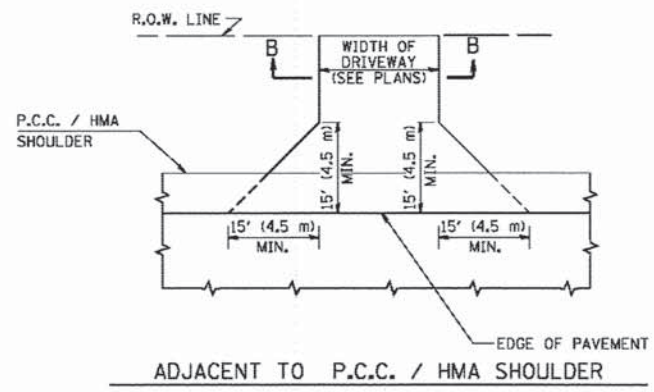
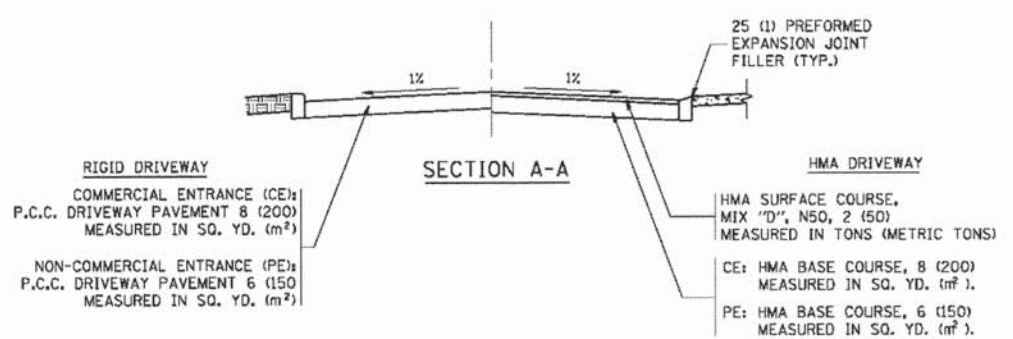
F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
1321	11-00048-00-SP	DUPAGE	277	213
CONTRACT NO. 63872				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B



GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

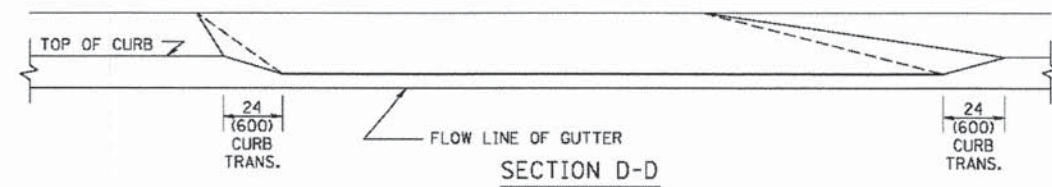
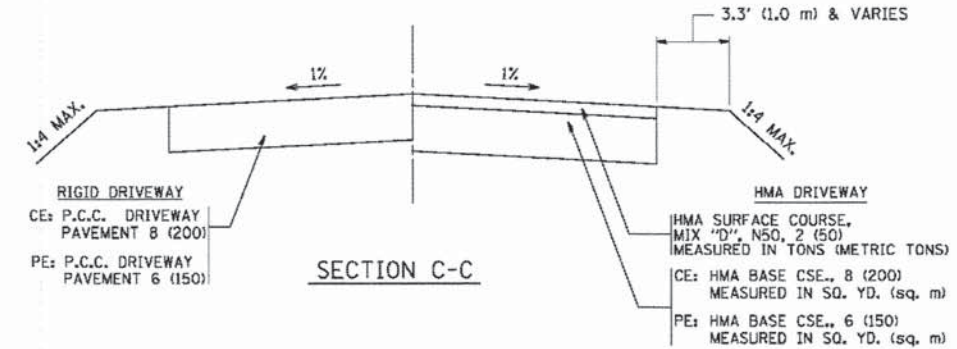
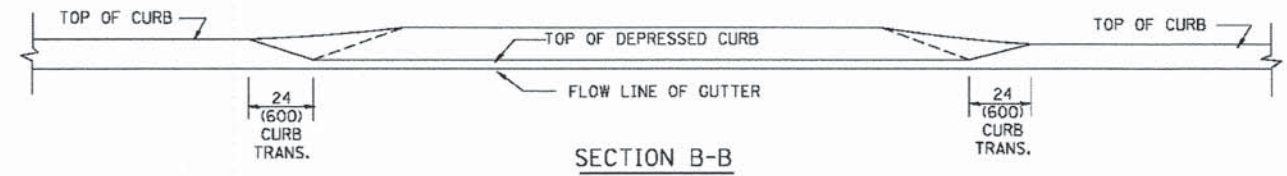
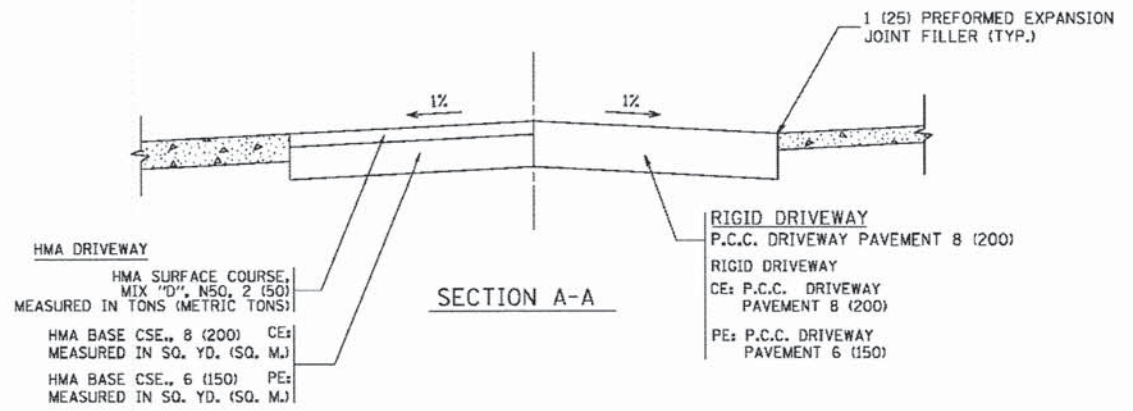
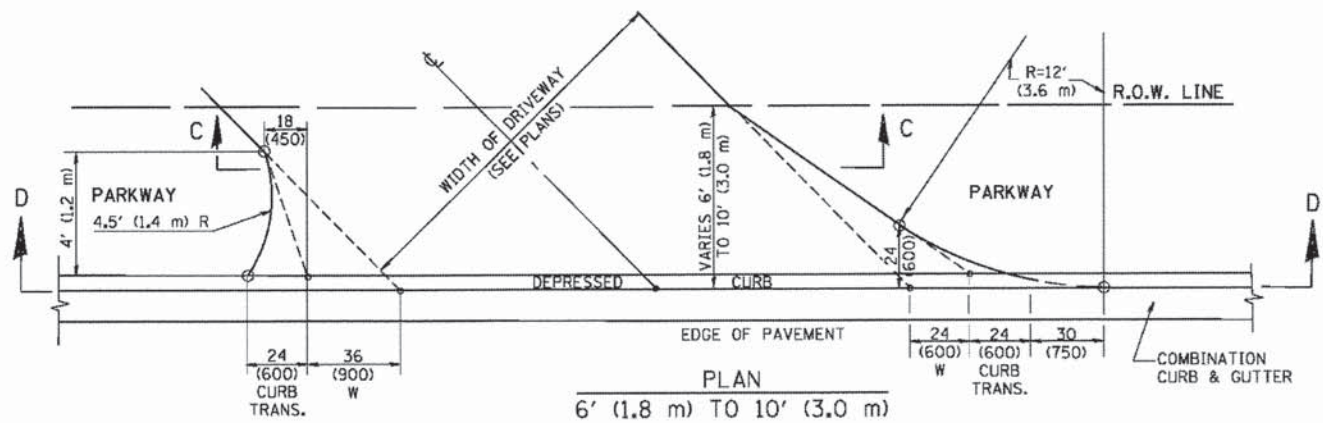
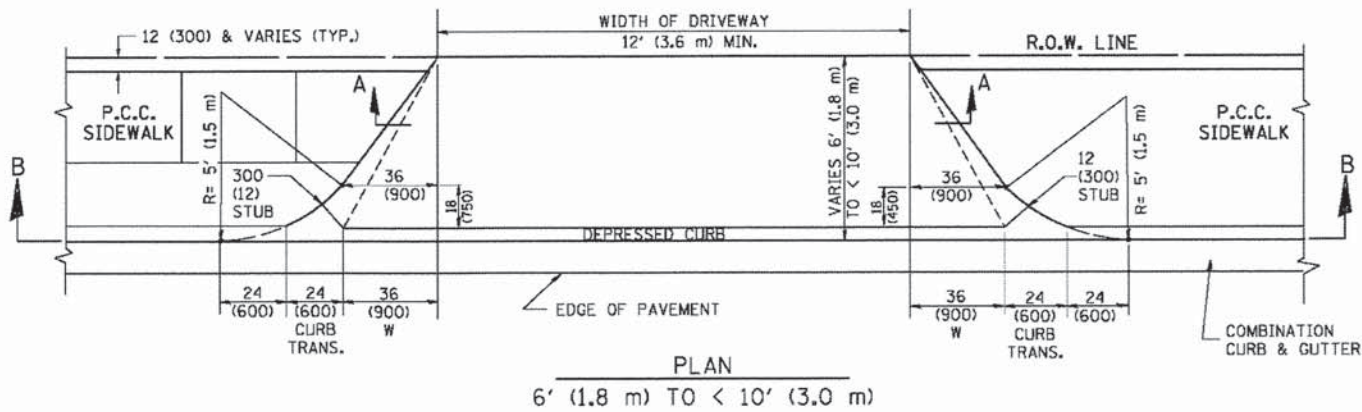
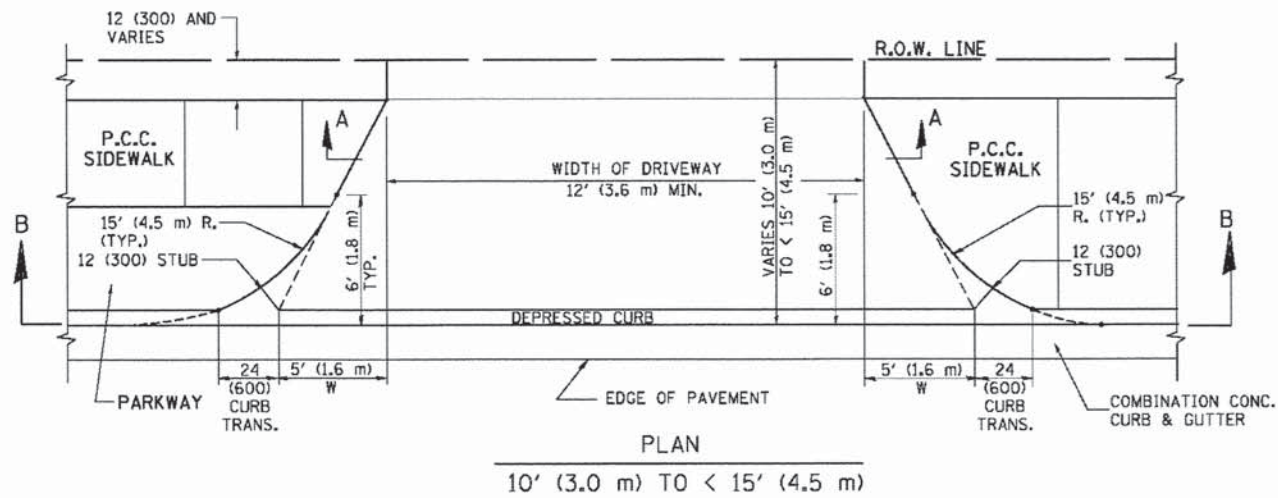
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PLOT DATE = 9/6/2011	DATE - 11-04-95	REVISED - R. BORO 09-06-11	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE. 1321	SECTION 11-00048-00-SP	COUNTY DUPAGE	TOTAL SHEETS 277	SHEET NO. 214
BD0156-07 (BD-01)		CONTRACT NO. 63872		
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



GENERAL NOTES

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

THE 1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

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

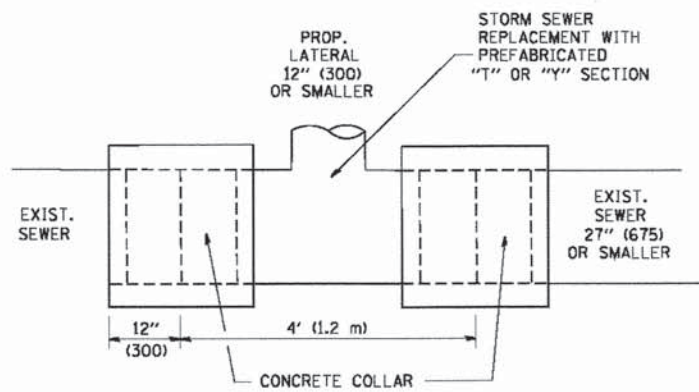
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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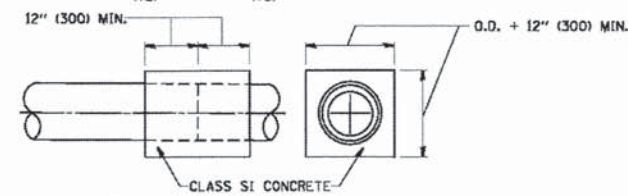
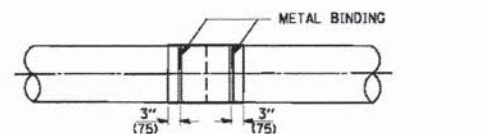
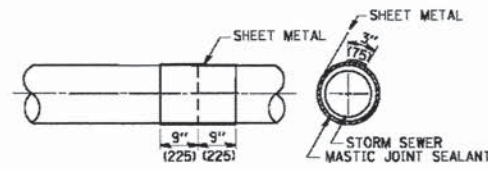
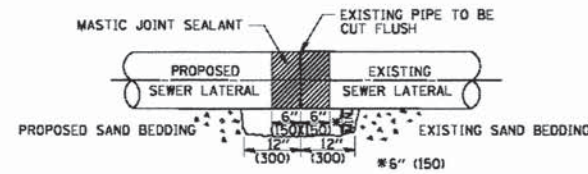
DRIVEWAY DETAILS			
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	11-00048-00-SP	DUPAGE	277	215
BD400-02 (BD-02)			CONTRACT NO. 63872	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER

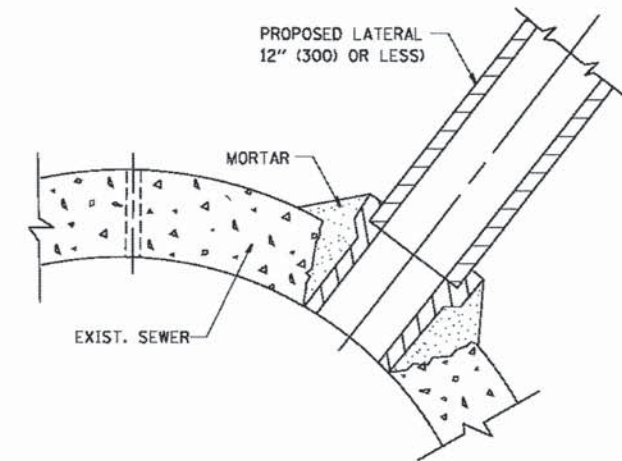


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

- CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
- APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
- BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
- CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
- WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
- LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
- PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
- WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
- PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
 - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
 - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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

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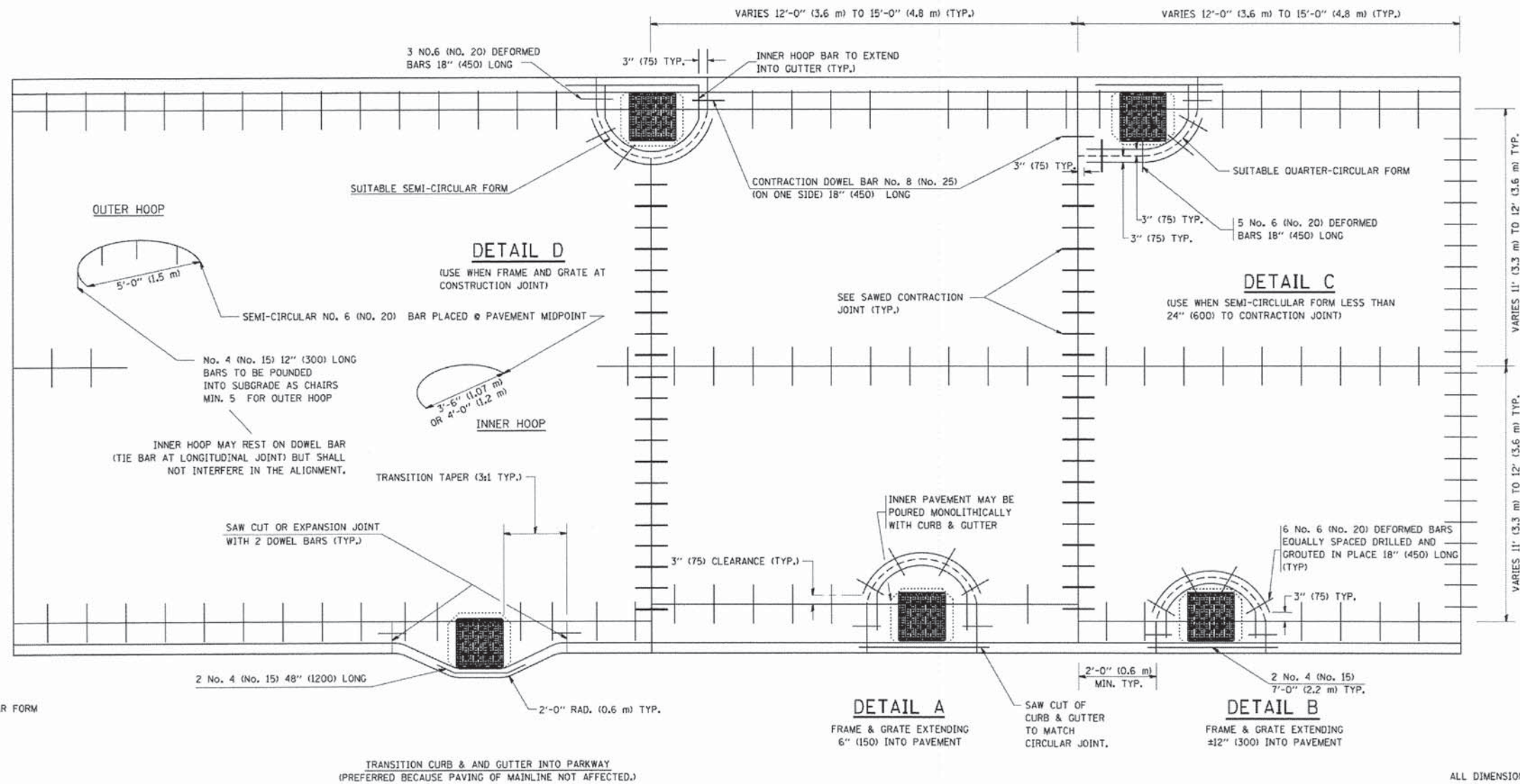
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PLOT DATE = 1/4/2008		DATE - 07-25-90	REVISED - R. SHAH 06-12-96									

FRAME EXTENSION INTO PAVEMENT	INNER HOOP REINFORCEMENT DIAMETER	SEMI CIRCULAR FORM DIAMETER	OUTER HOOP REINFORCEMENT DIAMETER
UP TO 8" (200)	3'-6" (1.1 m)	4'-0" (1.2 m)	5'-0" (1.5 m)
> 8" (200) TO 14" (360)	4'-0" (1.2 m)	4'-6" (1.4 m)	5'-0" (1.5 m)

DESIGNER NOTE:
THIS DETAIL IS TO BE USED
WHEN THE GUTTER FLAG IS
LESS THAN 24"

NOTES :

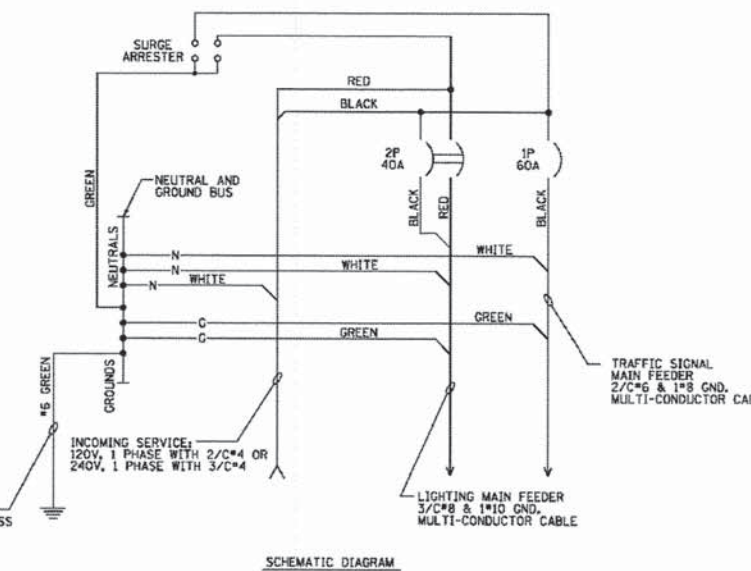
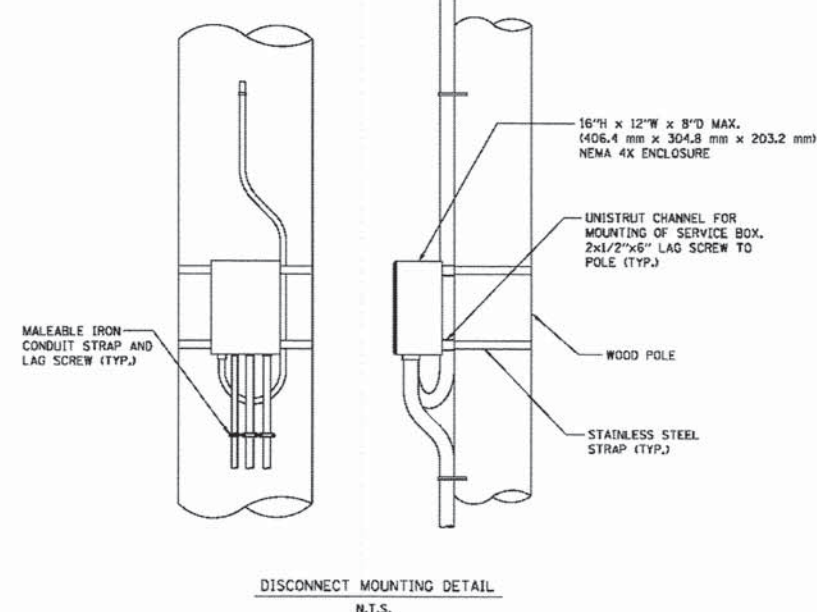
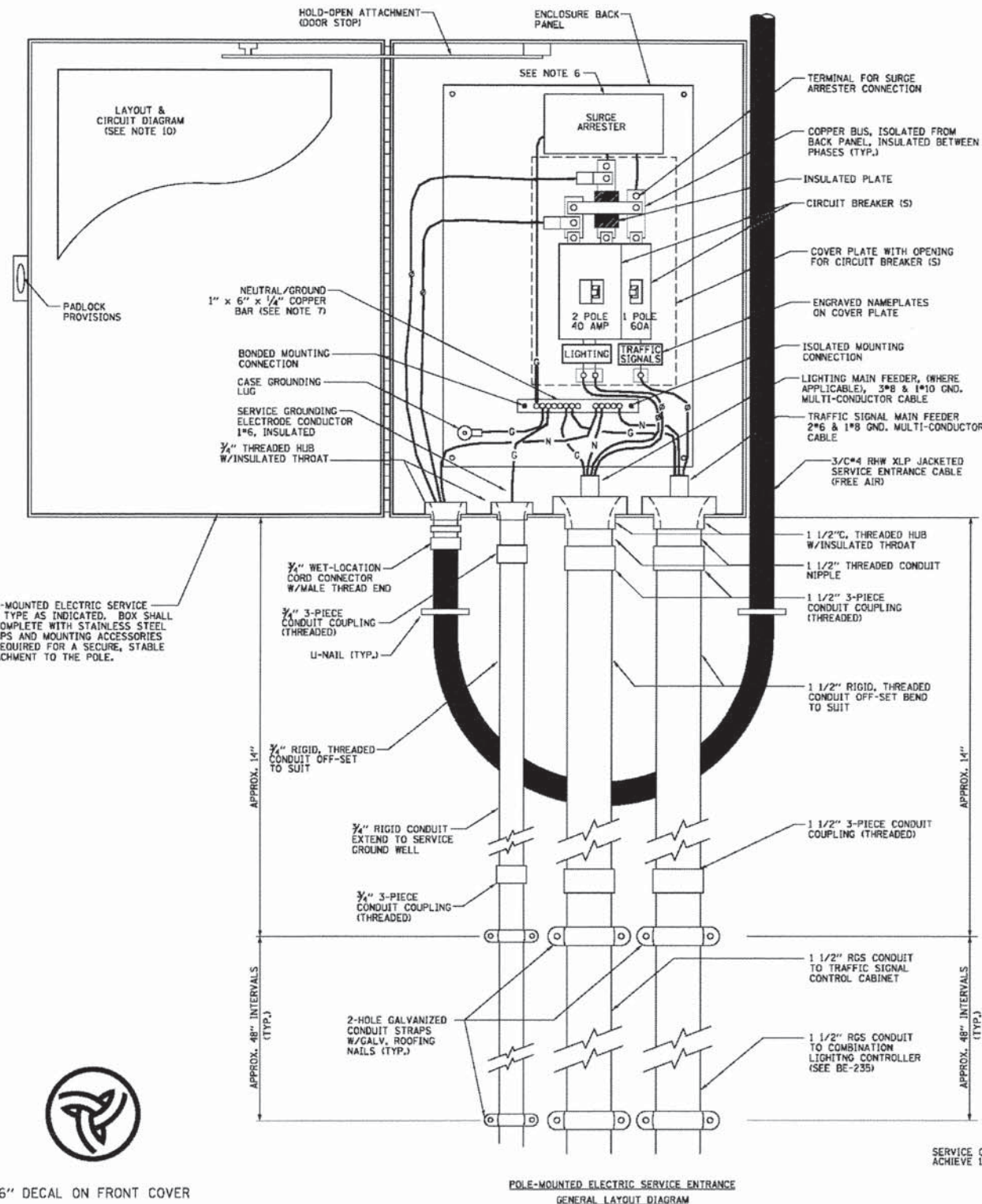
1. THE ROUNDOUT AND ADDED REINFORCEMENT WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE PAVEMENT.
2. TRANSVERSE JOINTS MAY BE MOVED TO ACCOMMODATE ROUNDOUT, EDGE OF CIRCULAR JOINT SHALL BE MINIMUM 12" (300) FROM TRANSVERSE JOINT. RELOCATED TRANSVERSE JOINT SHALL BE CONTINUOUS FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT.
3. SEMI-CIRCULAR FORM SHALL BE REMOVED PRIOR TO DRILL AND GROUT OF TIE BARS.
4. ALL REINFORCED BARS SHALL BE EPOXY COATED.
5. DRILL AND GROUT IS PREFERRED, HOWEVER TIE BARS CAN BE POURED IN PLACE IF CLEARANCE IS PROVIDED TO OUTER EDGE OF FRAME. MINIMUM 2" (50) CLEARANCE.
6. WOOD SHIMS SHALL BE USED TO ADJUST ALL FRAMES. AFTER ADJUSTING MORTAR HAS CURED, THE WOOD SHIMS SHALL BE REMOVED AND THE VOIDS UNDER THE FRAMES FILLED WITH NON SHRINK GROUT.
7. HOOP REINFORCEMENT SHALL BE ONE PIECE CONSTRUCTION.
8. CIRCULAR FRAMES AND GRATES MAY BE SUBSTITUTED.
9. CURB DOWELS MUST BE PLACED LEVEL & TRUE TO ALLOW CONTRACTION MOVEMENT.



ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

COMPANY NAME:
PROJECT CONTACT:
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PLOT SCALE = 50.0000' / IN.	CHECKED - A. ABBAS	REVISED - T. MATOUSEK 04-25-02	SCALE: NONE		SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	BD-48		CONTRACT NO. 63872			
PLOT DATE = 1/4/2008	DATE = 01-04-99	REVISED - P. LAFLEUR 08-27-02				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



- NOTES:**
- ELECTRIC SERVICE SHALL BE OF THE VOLTAGE INDICATED OR DESIGNATED BY THE ENGINEER, AND SERVICE DROP CABLE SHALL BE COMPATIBLE WITH THE SERVICE ACCORDINGLY. SOME INSTALLATIONS MAY CALL FOR SERVICE ENTRANCE EQUIPMENT SUITABLE FOR 3-WIRE SERVICE EVEN THOUGH INITIALLY WIRED FOR 2-WIRE SERVICE.
 - THE POLE-MOUNTED ELECTRIC SERVICE BOX DETAIL DEPICTS THE BASIC CONSTRUCTION OF THE EQUIPMENT. SLIGHT MODIFICATIONS APPLY FOR DIFFERING SERVICES AND APPLICATIONS AS FOLLOWS:
 - TYPE A FULLY EQUIPPED FOR 240/120V, 3W SERVICE, COMPLETE WITH LIGHTING MAIN BREAKER
 - TYPE A1 FULLY EQUIPPED FOR 240/120V, 3W SERVICE, BLANK COVER IN LIEU OF LIGHTING MAIN BREAKER
 - TYPE B EQUIPPED FOR 120V, SERVICE, COMPLETE WITH 1P, 60A, TRAFFIC SIGNALS MAIN BREAKER
 - TYPE B1 EQUIPPED FOR 120V, SERVICE, COMPLETE WITH 1P, 40A, TRAFFIC SURVEILLANCE MAIN BREAKER
 - THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LISTED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT.
 - THE ELECTRIC SERVICE EQUIPMENT ENCLOSURE SHALL BE NEMA 4X STAINLESS STEEL, NOMINALLY 12"W X 16"H X 8"D, WITH A PIANO-HINGED DOOR, STEEL BACK PANEL, FAST-ACTING STAINLESS STEEL ENCLOSURE CLAMPS, PADLOCK PROVISIONS AND DOOR STOP, HOFFMAN CATALOG NO. A-16H208556LP/A-16 P12/A-DSTOPK/C-PMK12, OR APPROVED EQUAL.
 - CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPERES AT 240 VOLTS. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/TAG-OUT REQUIREMENTS. HANDLES SHALL BE TRIP FREE.
 - THE SURGE PROTECTOR SHALL BE SUITABLE FOR 240/120 VOLT SINGLE PHASE 60HZ AC ELECTRICAL SERVICE, WITH A SURGE ENERGY CAPABILITY OF 2160 JOULES OR BETTER AT 8/20 MICRO-SECONDS, RATED -40 TO 60 DEGREES C., WITH LED OPERATING INDICATORS, AND SHALL BE UL LISTED PER UL 1449, CUTLER-HAMMER CM0V230L065XST OR APPROVED EQUAL.
 - BUS BARS, CONNECTORS, AND LUGS SHALL BE COPPER, INSULATED AND ISOLATED, AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO CONNECTIONS, OR THE ASSEMBLY SHALL BE A MANUFACTURED SPECIALTY PANELBOARD, CUTLER-HAMMER PRL2A OR APPROVED EQUAL.
 - THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS SHALL BE PAINTED GREEN. THE HEADS OF NEUTRAL SCREWS SHALL BE PAINTED WHITE. THE SERVICE NEUTRAL AND SERVICE GROUNDING ELECTRODE CONDUCTOR SHALL BE TERMINATED ADJACENT TO EACH OTHER AT THE DIVIDE BETWEEN THE SECTIONS AND WIRING SHALL BE TERMINATED ONLY UPON THE APPROPRIATE SECTION.
 - THE WIRING TERMINALS, INCLUDING THE GROUND/NEUTRAL BAR SHALL BE ARRANGED TO PROVIDE ADEQUATE ROOM FOR PERFORMING FIELD TERMINATIONS.
 - A PLASTIC LAMINATED LAYOUT AND CIRCUIT DIAGRAM SHALL BE MECHANICALLY SECURED TO THE INTERIOR SIDE OF THE ENCLOSURE DOOR.
 - A 2-COLOR ENGRAVED PLASTIC NAMEPLATE, ATTACHED WITH SCREWS, AND ENGRAVED AS INDICATED, SHALL BE PROVIDED FOR EACH MAIN BREAKER.
 - LUGS AND CONNECTORS SHALL BE RATED FOR 75°C CONDUCTOR.
 - THE EXACT MOUNTING HEIGHT OF THE BOX SHALL BE FIELD DETERMINED TO AVOID OBSTRUCTIONS AND PUBLIC ACCESS. TYPICAL HEIGHT SHALL BE APPROXIMATELY 10 FEET ABOVE GRADE.



6" DECAL ON FRONT COVER

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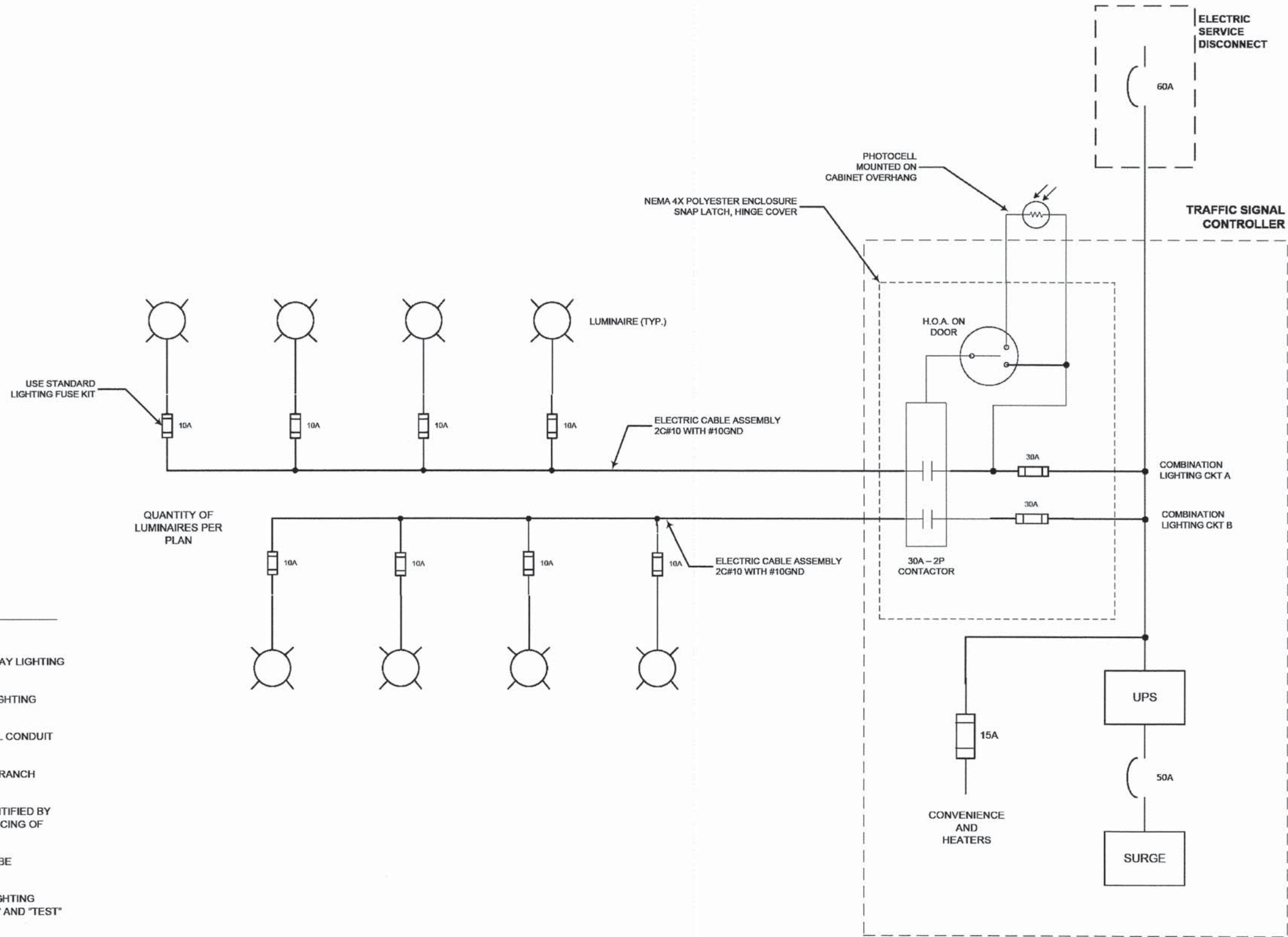
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		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**COMBINATION LIGHTING & TRAFFIC POLE
MOUNTED ELECTRIC SERVICE BOX DETAIL**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	11-00048-00-SP	DUPAGE	277	218
BE-230			CONTRACT NO. 63872	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



NOTES

1. 4 LUMINAIRES PER CIRCUIT, MAXIMUM.
2. ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY.
3. MULTI-CONDUCTOR CABLE ASSEMBLY FOR LIGHTING CIRCUITS SHALL BE USED.
4. ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM.
5. ALL CONTROLLERS TO HAVE TWO LIGHTING BRANCH BREAKERS.
6. ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED. (BELOW GRADE SPLICING OF LIGHTING CIRCUITS IS NOT PERMITTED).
7. LIGHTING CONTROLLER DESIGNATION SHALL BE CONFIRMED BY THE ENGINEER.
8. THE H.O.A. SWITCH SHALL BE LABELED AS "LIGHTING CONTROL" WITH THE POSITIONS "AUTO", "OFF" AND "TEST" WITH ENGRAVED NAMEPLATES.
9. LIGHTING RECORD DRAWINGS SHALL INCLUDE:
 - TRAFFIC SIGNAL PLAN SHEET(S)
 - TRAFFIC SIGNAL CABLE PLAN SHEET(S)
 - LIGHTING PLAN(S)
 - THIS DETAIL

COMPANY NAME:
 PROJECT CONTACT:
 CLIENT:
 DATE PLOTTED: 5/23/14 PM
 FILE NAME: 021.dwg/lighting_combo.dwg
 PLOT NUMBER:
 PEN TABLE: strander-ct-frank.tbl

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		CHECKED	REVISED
		DATE 2/5/2015	REVISED
PLOT SCALE NONE			
PLOT DATE			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**COMBINATION LIGHTING TRAFFIC
SIGNAL LIGHTING SCHEMATIC**

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

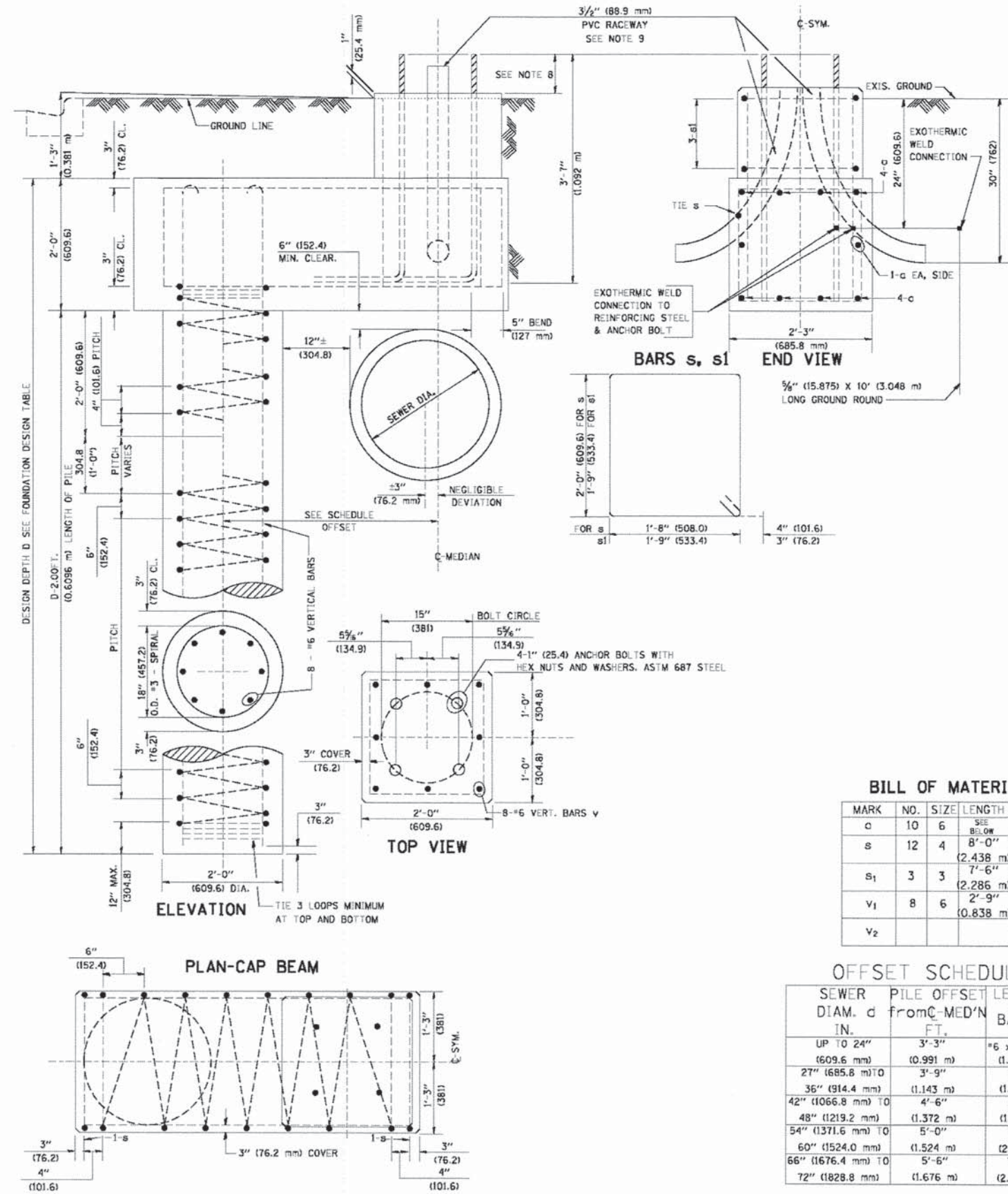
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	11-00048-00-SP	DUPAGE	277	219
CONTRACT NO. 63872			ILLINOIS FED. AID PROJECT	

FOUNDATION DESIGN TABLE

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	13'-0" (3.962 m)	15'-0" (4.572 m)	8-#6X12'-6" (3.810 m)	#3X122' (37.186 m)	8-#6X14'-3" (4.343 m)	#3X141' (42.977 m)
MEDIUM CLAY	9'-6" (2.896 m)	10'-9" (3.277 m)	8-#6X9'-0" (2.743 m)	#3X90' (27.432 m)	8-#6X10'-0" (3.048 m)	#3X100' (30.480 m)
STIFF CLAY	7'-0" (2.134 m)	8'-0" (2.438 m)	8-#6X6'-6" (1.981 m)	#3X66' (20.112 m)	8-#6X7'-6" (2.286 m)	#3X76' (23.165 m)
LOOSE SAND	9'-0" (2.743 m)	10'-0" (3.048 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)	8-#6X9'-6" (2.896 m)	#3X94' (28.651 m)
MEDIUM SAND	8'-3" (2.515 m)	9'-0" (2.743 m)	8-#6X8'-0" (2.438 m)	#3X78' (23.774 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
DENSE SAND	7'-9" (2.362 m)	9'-0" (2.743 m)	8-#6X7'-6" (2.286 m)	#3X73' (22.250 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
ROCK OR SOLIDIFIED SLAG	5'-0" (1.524 m)	5'-0" (1.524 m)	NONE	NONE	NONE	NONE

NOTES

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



BILL OF MATERIAL

MARK	NO.	SIZE	LENGTH	SHAPE
c	10	6	SEE BELOW	—
s	12	4	8'-0" (2.438 m)	□
s1	3	3	7'-6" (2.286 m)	□
v1	8	6	2'-9" (0.838 m)	—
v2				

OFFSET SCHEDULE

SEWER DIAM. d IN.	PILE OFFSET FROM C-MED'N FT.	LENGTH OF BAR c FT.
UP TO 24" (609.6 mm)	3'-3" (0.991 m)	#6 x 5'-3" (1.600 m)
27" (685.8 mm) TO 35" (914.4 mm)	3'-9" (1.143 m)	5'-9" (1.753 m)
42" (1066.8 mm) TO 48" (1219.2 mm)	4'-6" (1.372 m)	6'-6" (1.981 m)
54" (1371.6 mm) TO 60" (1524.0 mm)	5'-0" (1.524 m)	7'-0" (2.134 m)
66" (1676.4 mm) TO 72" (1828.8 mm)	5'-6" (1.676 m)	7'-6" (2.286 m)

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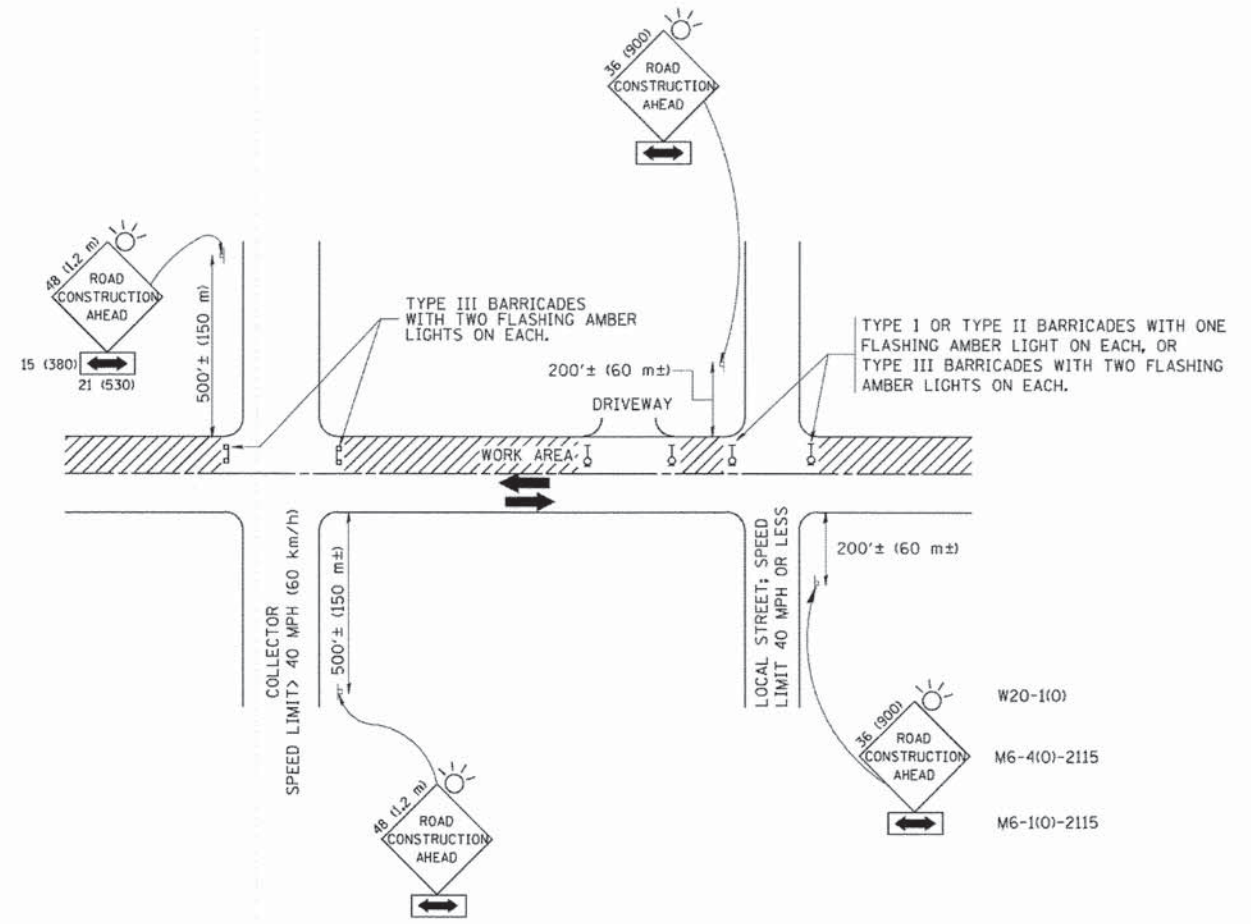
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION OFFSET
 40" (1219.2 mm) TO 47 1/2" (1447.8 mm) M.H.
 15" (381 mm) BOLT CIRCLE

F.A. RTE. 1321	SECTION 11-00048-00-SP	COUNTY DUPAGE	TOTAL SHEETS 277	SHEET NO. 220
BE-310		CONTRACT NO. 63872		
ILLINOIS FED. AID PROJECT				

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



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

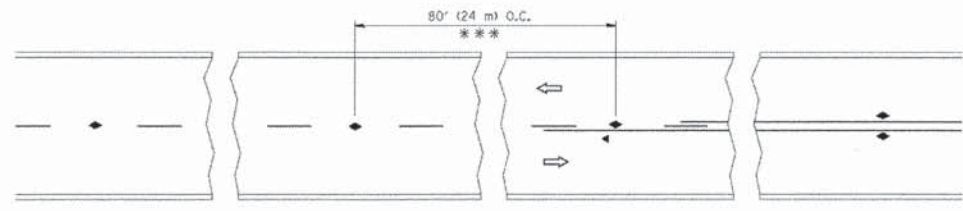
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

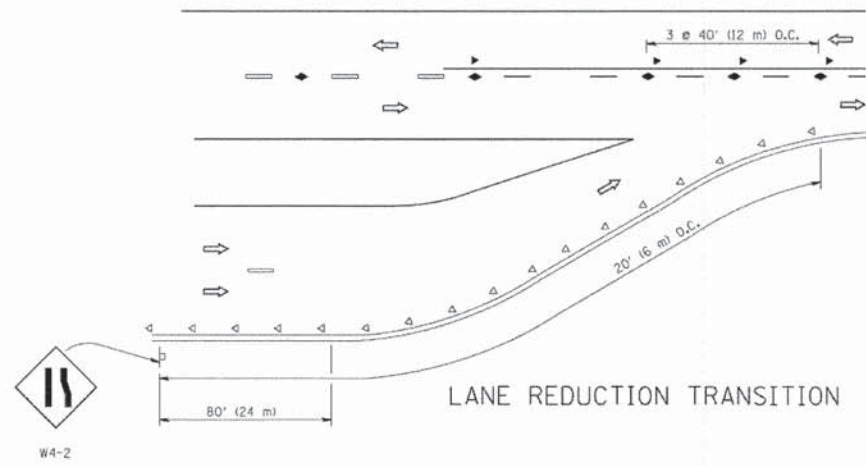
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SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO.	63872
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

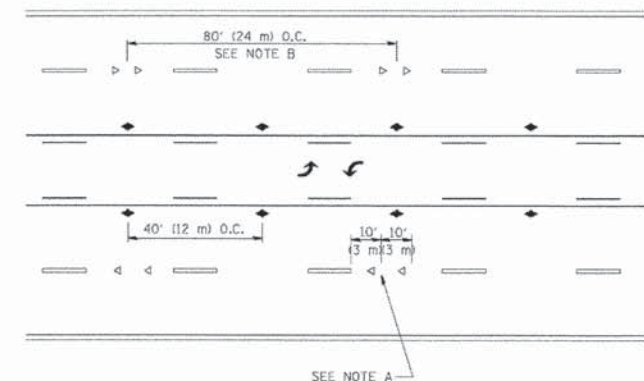


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

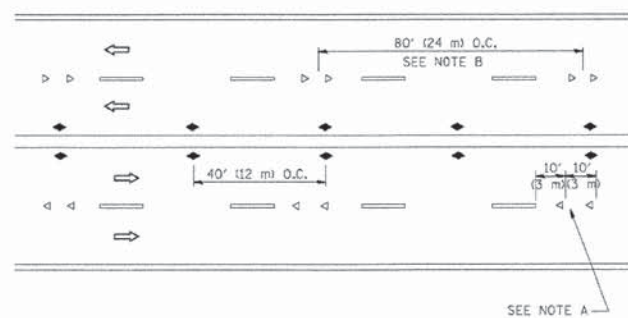
TWO-LANE/TWO-WAY



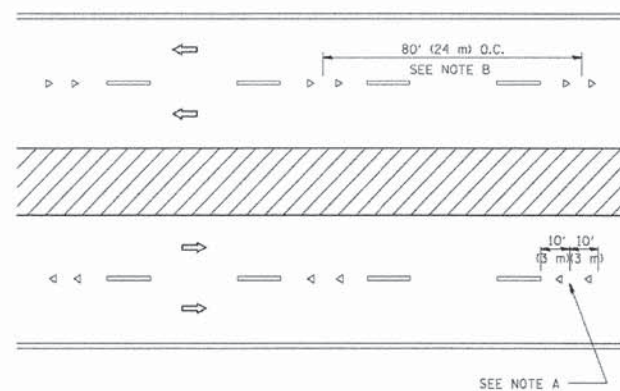
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

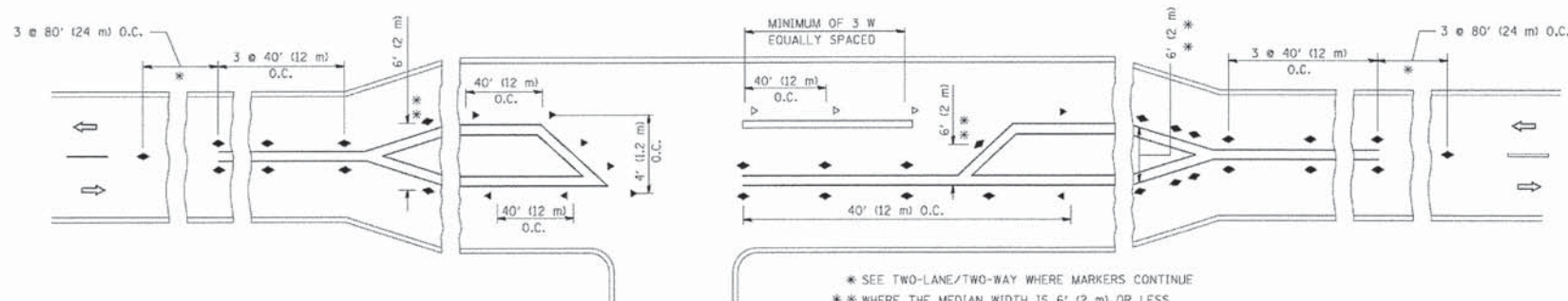
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- < ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

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

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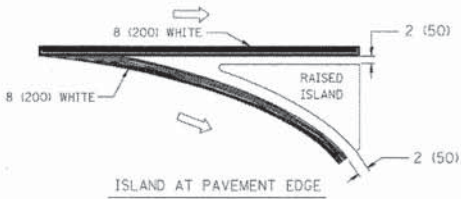
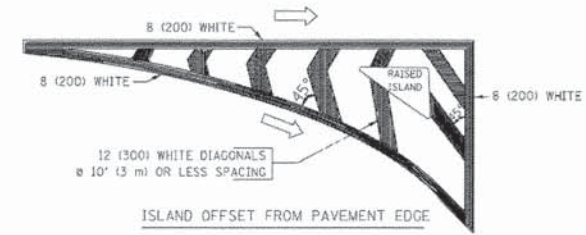
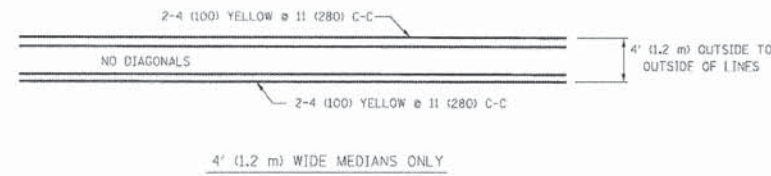
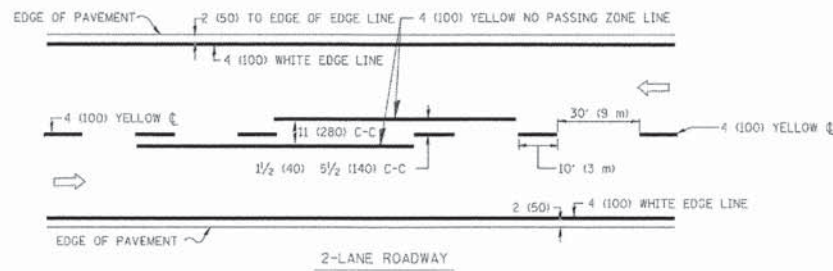
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

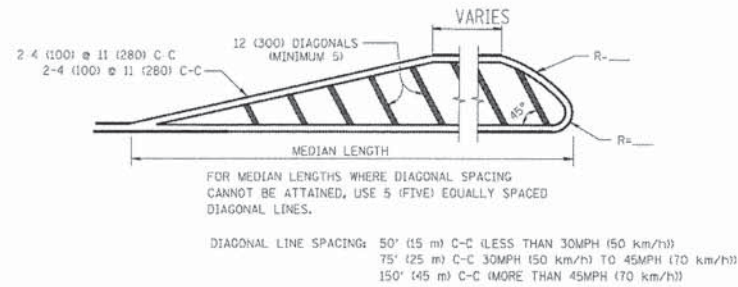
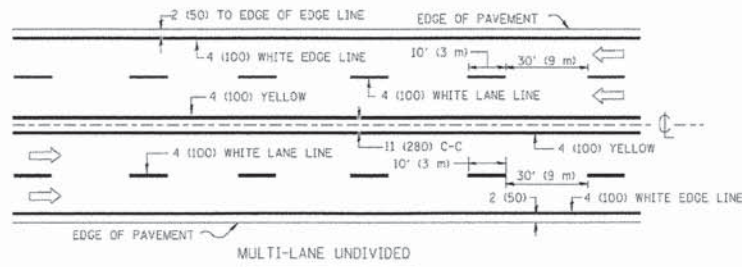
TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

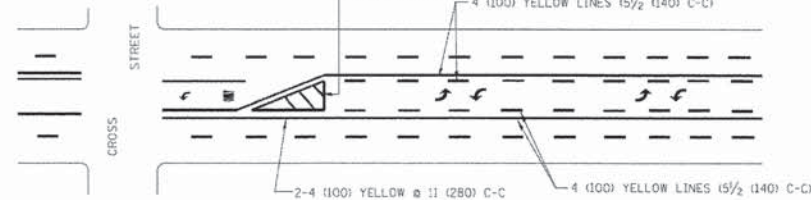
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	11-00048-00-SP	DUPAGE	277	222
TC-11			CONTRACT NO.	63872
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TYPICAL ISLAND MARKING



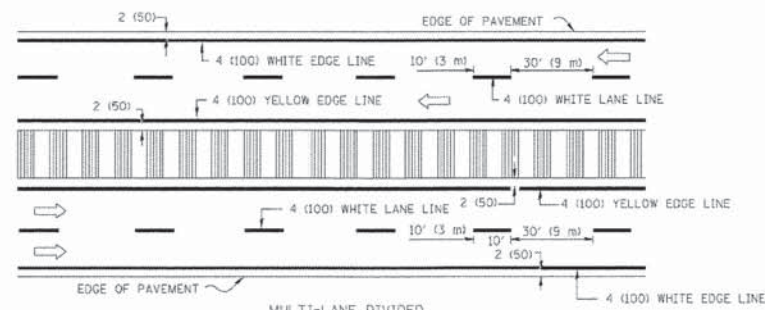
MEDIANS OVER 4' (1.2 m) WIDE



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

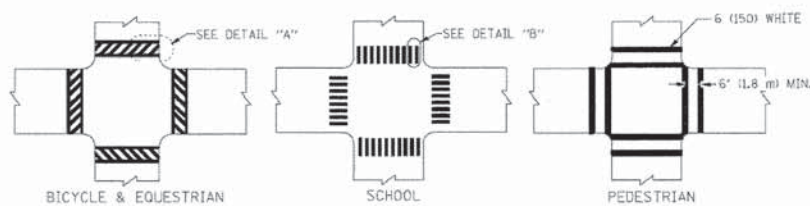


TYPICAL PAINTED MEDIAN MARKING

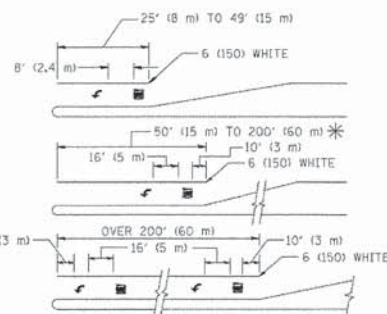


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSWALK CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
CORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15' (4.5 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (22.5 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

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

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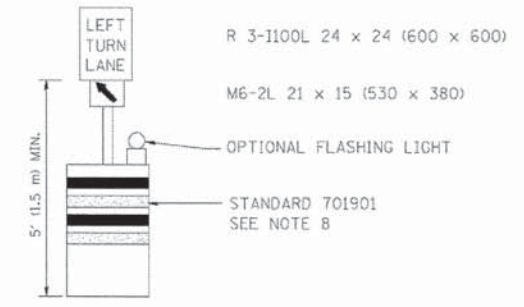
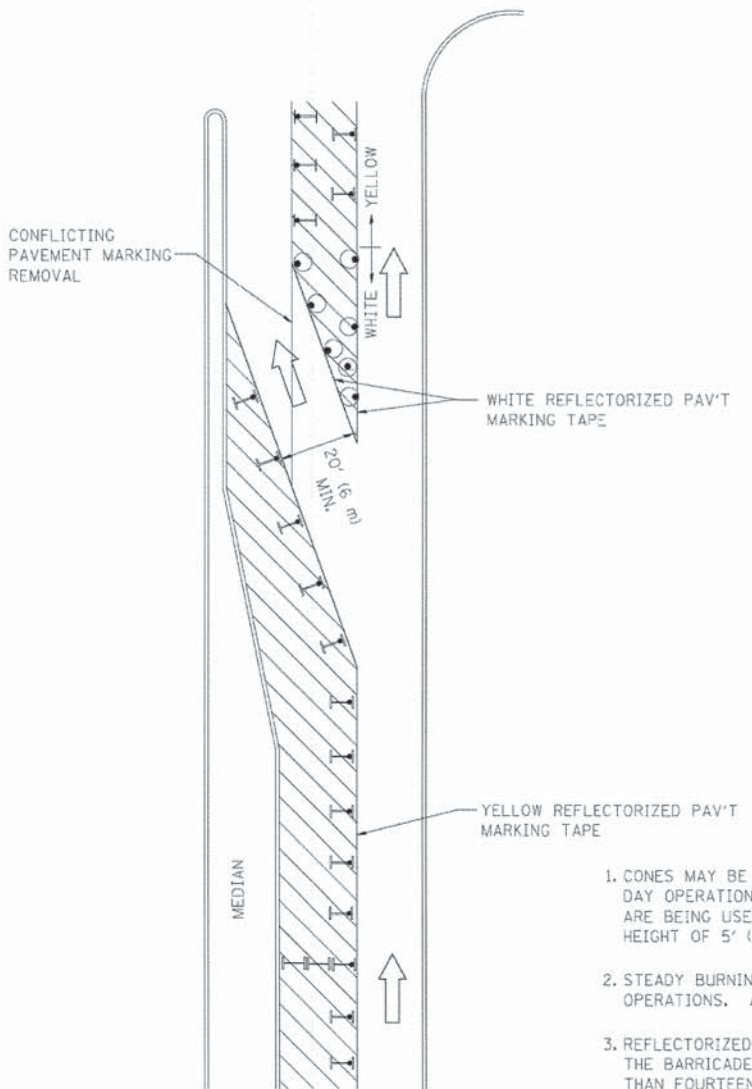
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	11-00048-00-SP	DUPAGE	277	223
TC-13			CONTRACT NO.	63872

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT









GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

LEGEND

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

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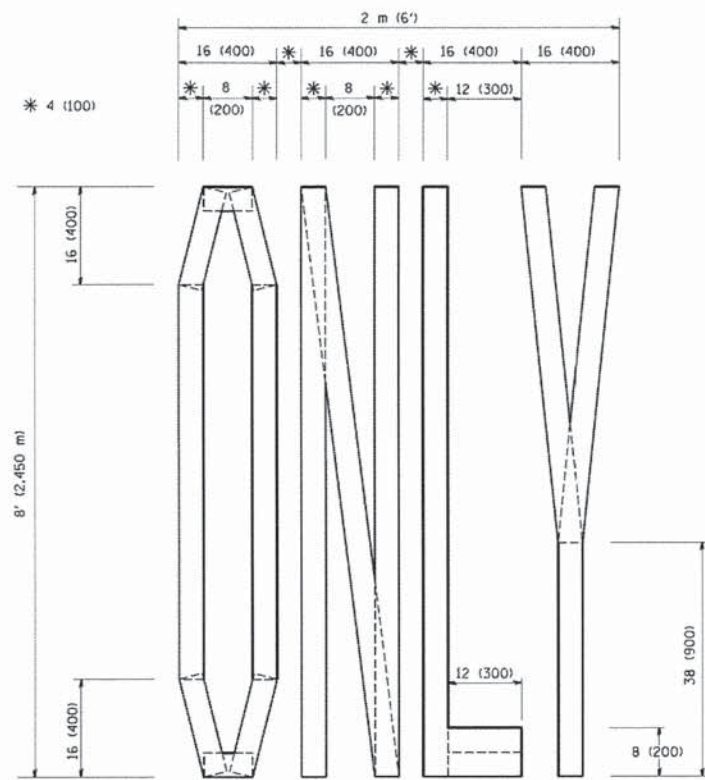
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

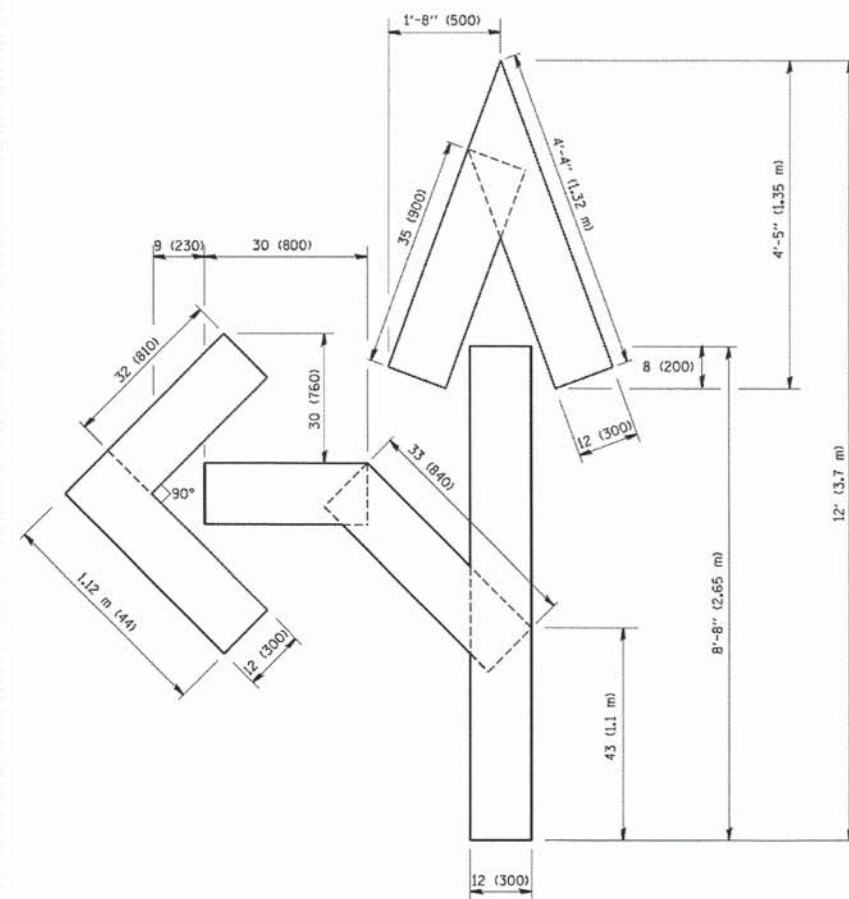
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

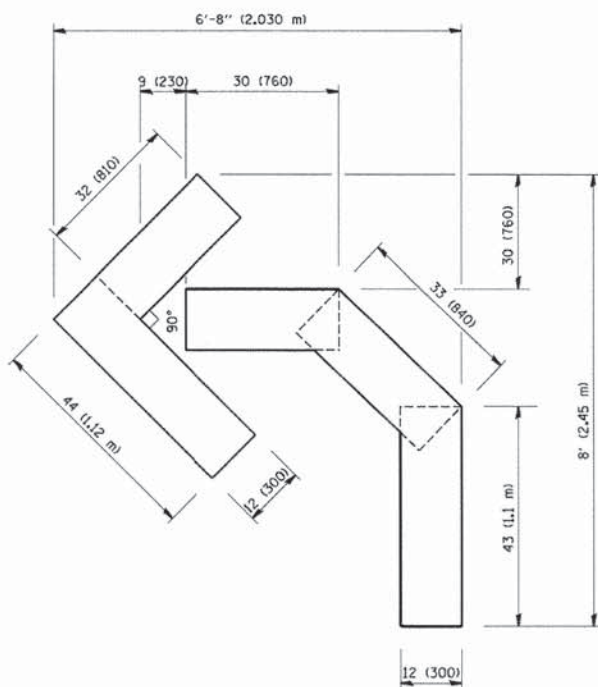
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	11-00048-00-SP	DUPAGE	277	224
TC-14			CONTRACT NO.	63872
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



QUANTITY
4 (100) LINE = 64.1 ft. (19.7 m)
21.1 sq. ft. (1.97 sq. m)



QUANTITY
4 (100) LINE = 82.5 ft. (25.3 m)
27.5 sq. ft. (2.53 sq. m)



QUANTITY
4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.39 sq. m)

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

COMPANY NAME:
PROJECT CONTACT:
CLIENTS:
DATE PLOTTED: 2/16/2015 12:36:05 PM
FILE NAME: 021.dwg
PLOT DRIVER: pdfplot
PEN TABLE: standard-trans.tbl

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DESIGNED -
DRAWN -
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PLOT DATE = 1/4/2008

DESIGNED -
DRAWN -
CHECKED -
DATE - 09-18-94

REVISOR - T. RAMMACHER 06-05-96
REVISOR - T. RAMMACHER 11-04-97
REVISOR - T. RAMMACHER 03-02-98
REVISOR - E. GOMEZ 08-28-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS
FOR TRAFFIC STAGING

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	11-00048-00-SP	DUPAGE	277	225
TC-16			CONTRACT NO. 63872	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

ROUTE MARKERS

FOR U.S. ROUTES MI-40-2424

FOR ILLINOIS ROUTES MI-50-2424

R.R. UNMARKED ROUTES SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-2-2115

CARDINAL DIRECTION & DETOUR SIGNS

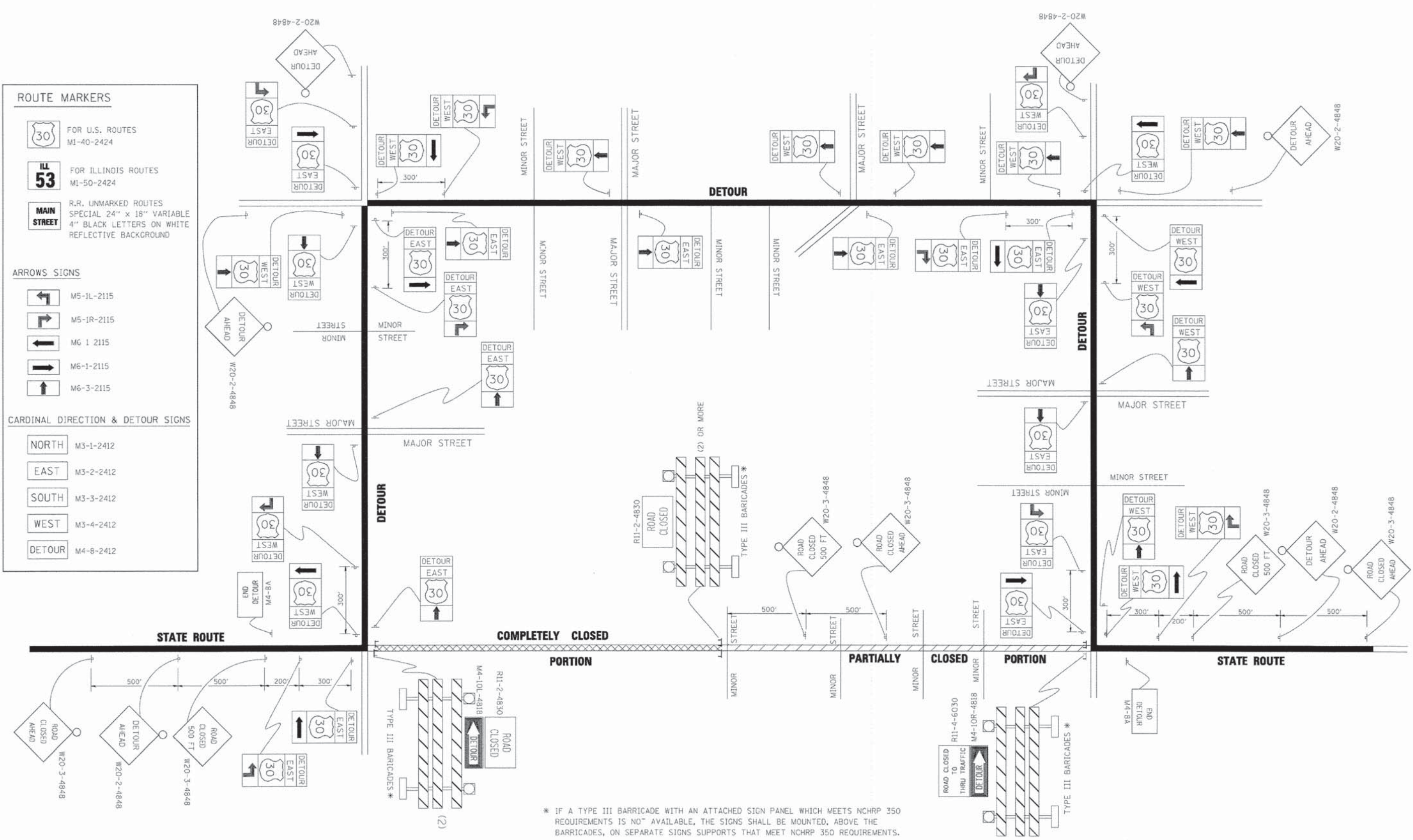
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

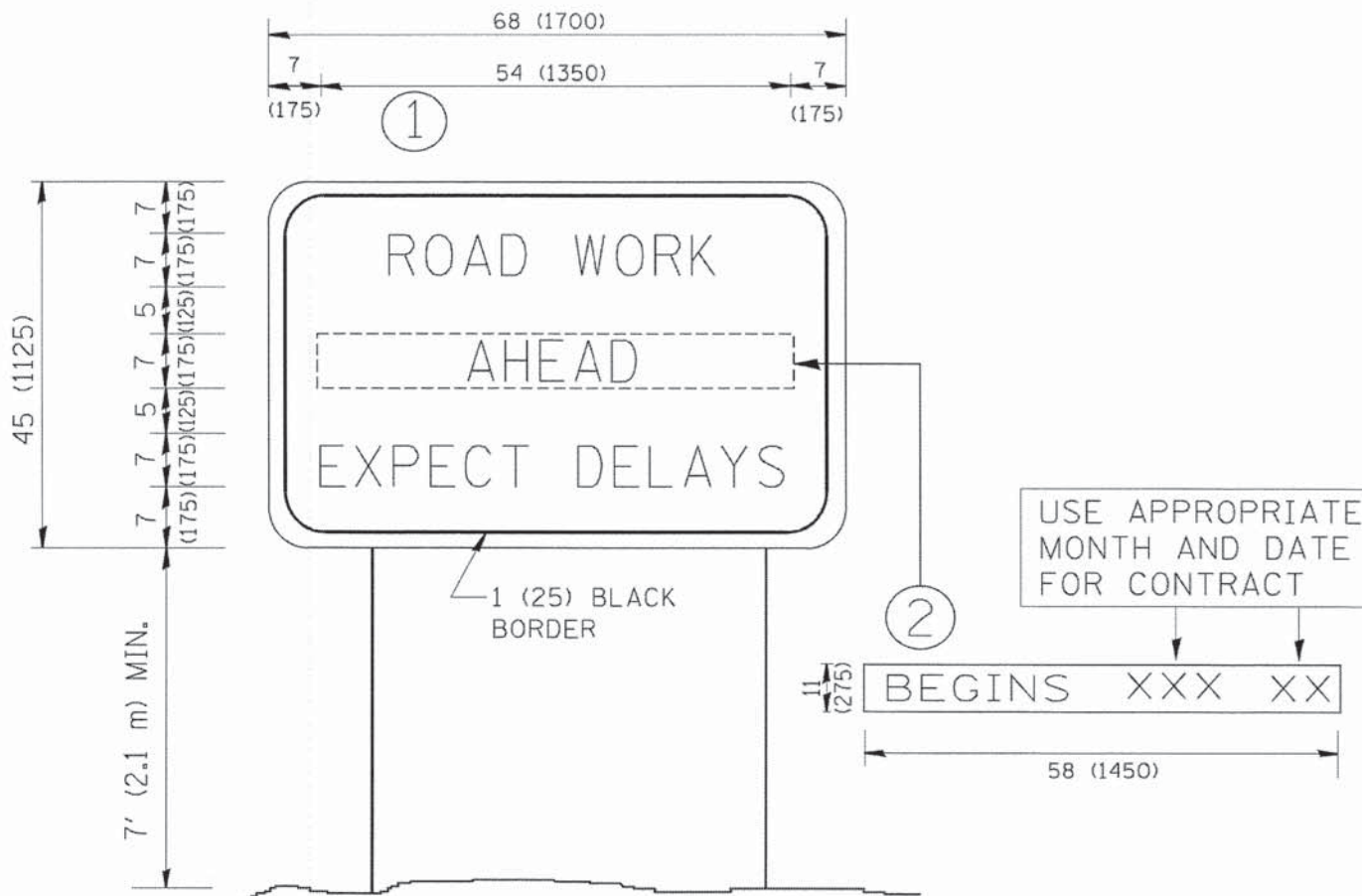
COMPANY NAME: STANDARD TRANS, INC.
 CLIENT CONTACT: JEFFREY L. BORDEN
 DATE PLOTTED: 2/16/2015 1:36:09 PM
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		DRAWN -	REVISED - R. BORO 09-14-09
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DETOUR SIGNING FOR CLOSING STATE HIGHWAYS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE. 1321	SECTION 11-00048-00-SP	COUNTY DUPAGE	TOTAL SHEETS 277	SHEET NO. 226
TC-21			CONTRACT NO. 63872	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

COMPANY NAME: STONOR & TRONSKI
 PROJECT CONTACT: STONOR & TRONSKI
 CLIENT: STONOR & TRONSKI
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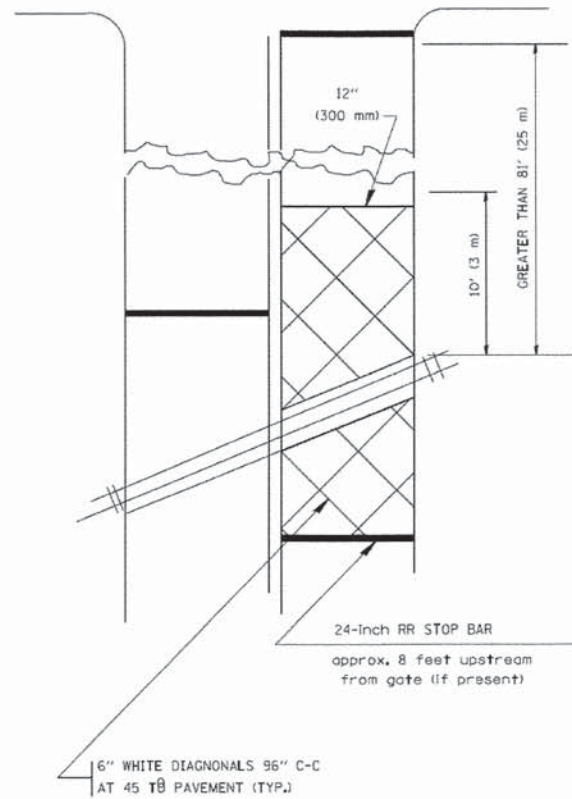
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W:\d\stata\22x34\to22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97
		CHECKED -	REVISED - T. RAMMACHER 02-02-99
		DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ARTERIAL ROAD INFORMATION SIGN			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

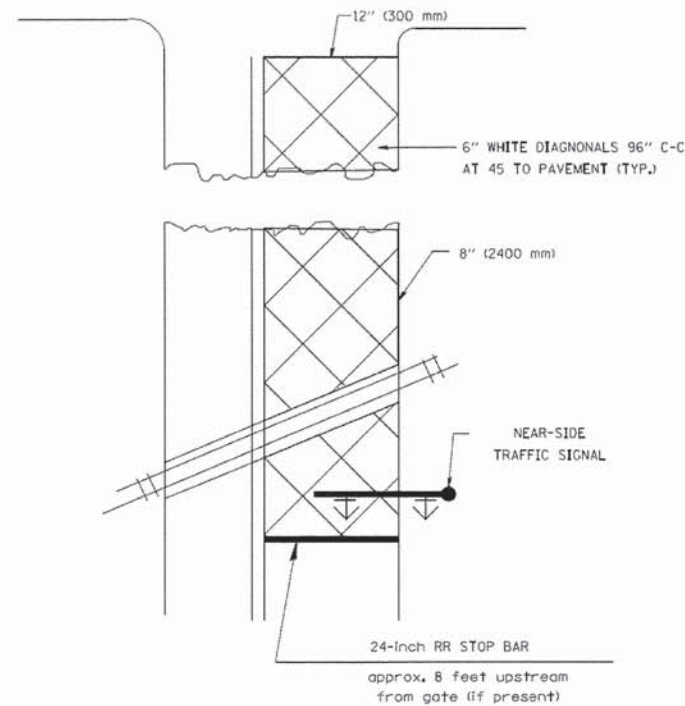
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	11-00048-00-SP	DUPAGE	277	227
TC-22			CONTRACT NO. 63872	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

WITH INTERSECTION TRAFFIC SIGNALS
(SEE NOTE 1)



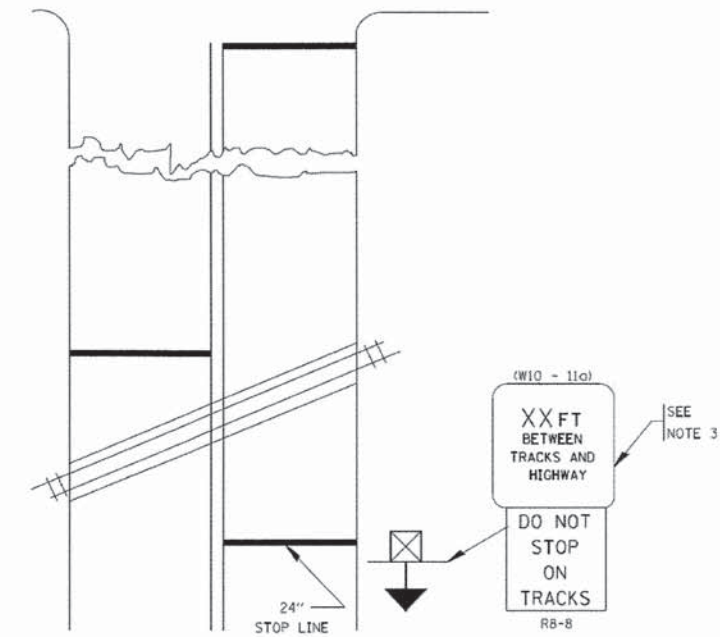
PLAN
N. T. S.

WITH NEAR-SIDE TRAFFIC SIGNALS
(SEE NOTE 1 & 2)



PLAN
N. T. S.

WITH NONSIGNALIZED INTERSECTION
81' (25 m) OR LESS TO CLOSEST RAIL



PLAN
N. T. S.

NOTES:

- PAVEMENT MARKINGS TO BE INSTALLED ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED, THE PAVEMENT MARKINGS EXTENDS TO THE INTERSECTION.
- DISTANCE TO BE SHOWN ON SIGN MEASURED FROM A POINT 6 FEET (1.8 m) FROM THE RAIL CLOSEST TO THE INTERSECTION TO THE STOP LINE OR CROSSWALK, WHICHEVER IS CLOSEST, ROUNDED DOWN TO THE NEAREST 5 FEET (1.5 m). WHERE THERE IS NO STOP LINE, MEASURE TO POINT WHERE THE DRIVER HAS A VIEW OF APPROACHING TRAFFIC.
THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6-FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS EXTEND TO THE INTERSECTION.

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

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 2/16/2015 1:41:25 PM
FILE NAME: 021_0611C21.dgn
PLOT DRIVER: pdf.plt
PEN TABLE: standard-trans.tbl

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	PLDT DATE = 5/7/2012	DATE =	REVISED =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING
TREATMENT FOR RAILROAD CROSSINGS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	11-00048-00-SP	DUPAGE	277	228
TC-23			CONTRACT NO.	63872
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

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 PROJECT CONTACT:
 CLIENT:
 DATE PLOTTED: 2/16/2015 1:42:39 PM
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 PEN TABLE: strander-dr-trns.tbl

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

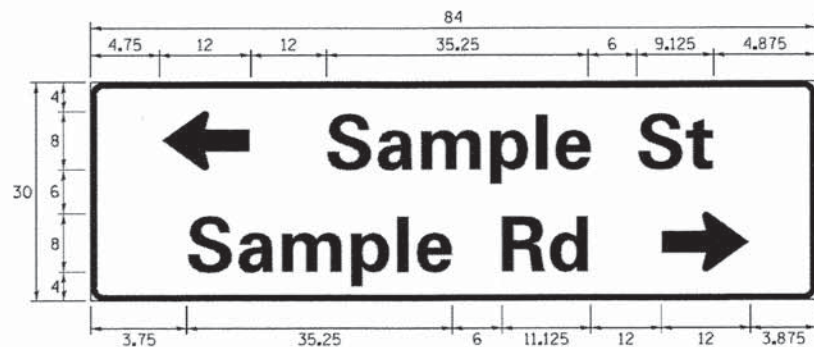
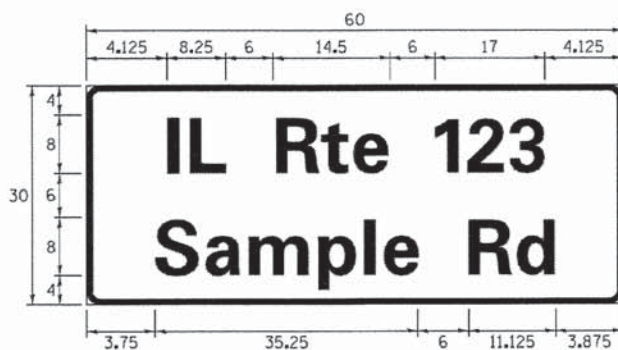
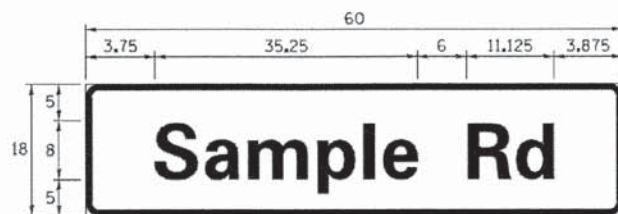
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE. 1321	SECTION 11-00048-00-SP	COUNTY DUPAGE	TOTAL SHEETS 277	SHEET NO. 229
TC-26			CONTRACT NO. 63872	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

SIGN PANEL – TYPE 1 OR TYPE 2



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

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

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

GENERAL NOTES

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

LOCAL SUPPLIERS:

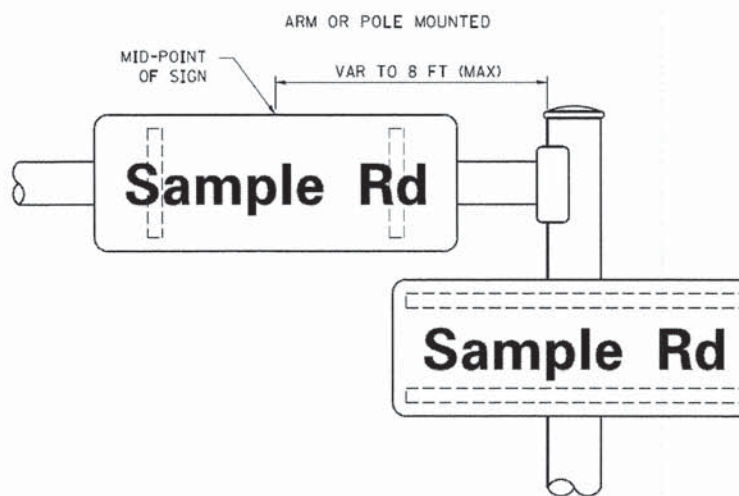
- J.O. HERBERT COMPANY, INC
MIDLOTHIAN, VA
- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

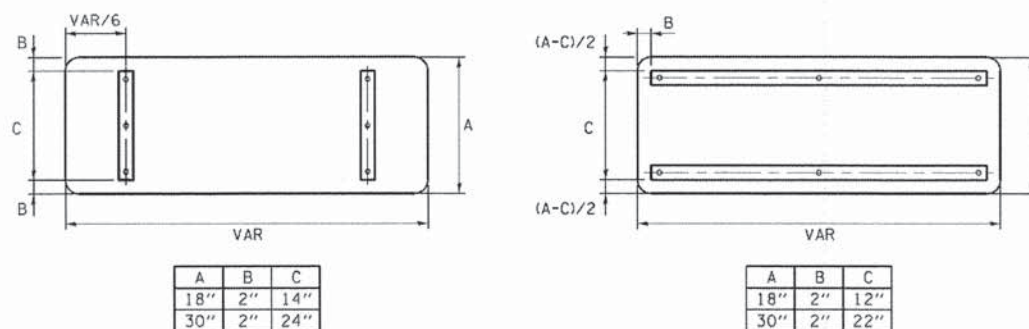
- SIGN CHANNEL PART #HPN053 (MED. CHANNEL) 1/4" x 14 x 1" H.W.H. #3
- SIGN SCREWS SELF TAPPING WITH NEOPRENE WASHER PART #HPN034 (UNIVERSAL)
- BRACKETS CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

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

MOUNTING LOCATION



SUPPORTING CHANNELS



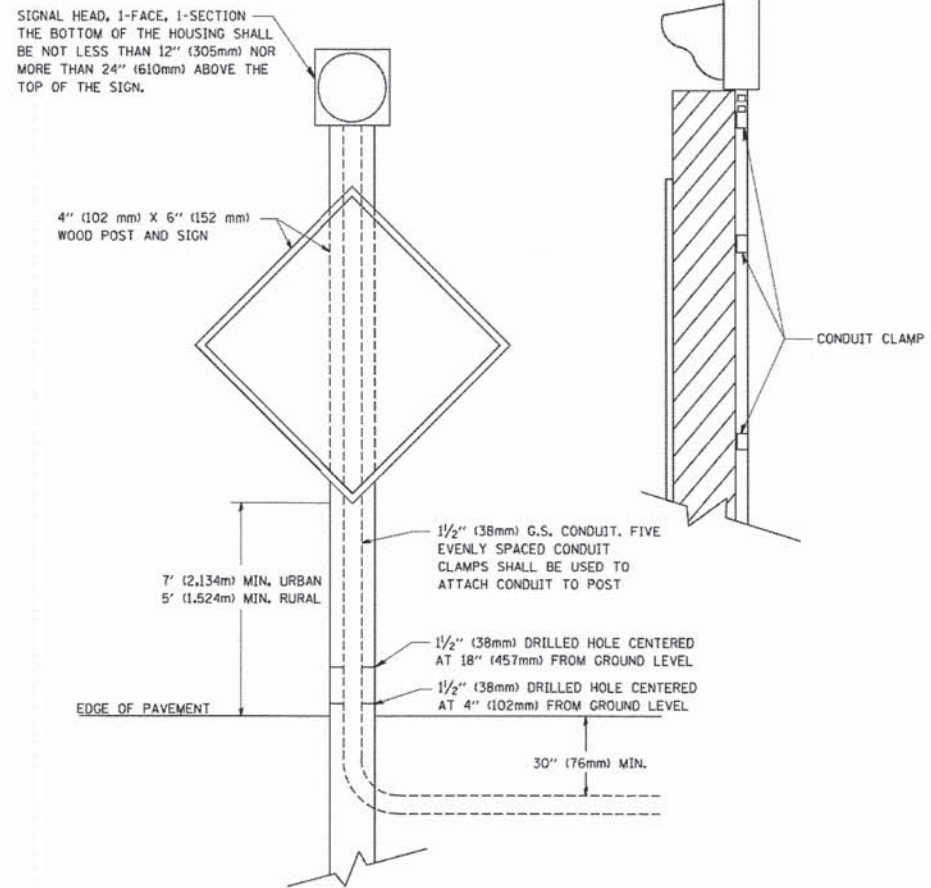
STANDARD ALPHABETS SPACING CHART

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

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

COMPANY NAME:
 PROJECT CONTACT:
 CLIENT:
 DATE PLOTTED: 2/16/2015 1:43:20 PM
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	PLOT DATE = 9/22/2014	CHECKED - IP	REVISED -					TS-02				



POST MOUNTED FLASHING BEACON

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED:
FILE NAME:
PLOT DRIVER:
PEN TABLE:

2/16/2008 4:45:43 PM
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pdf.plt
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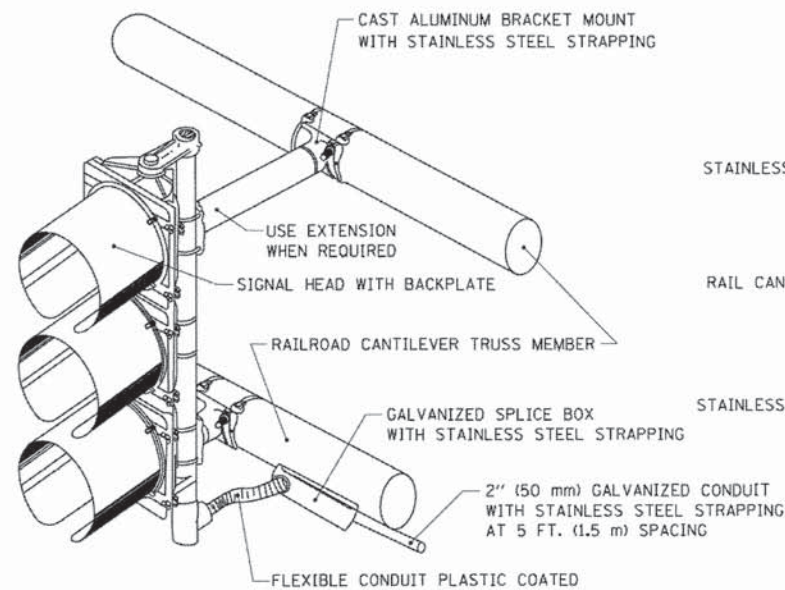
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PLOT DATE = 1/4/2008		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

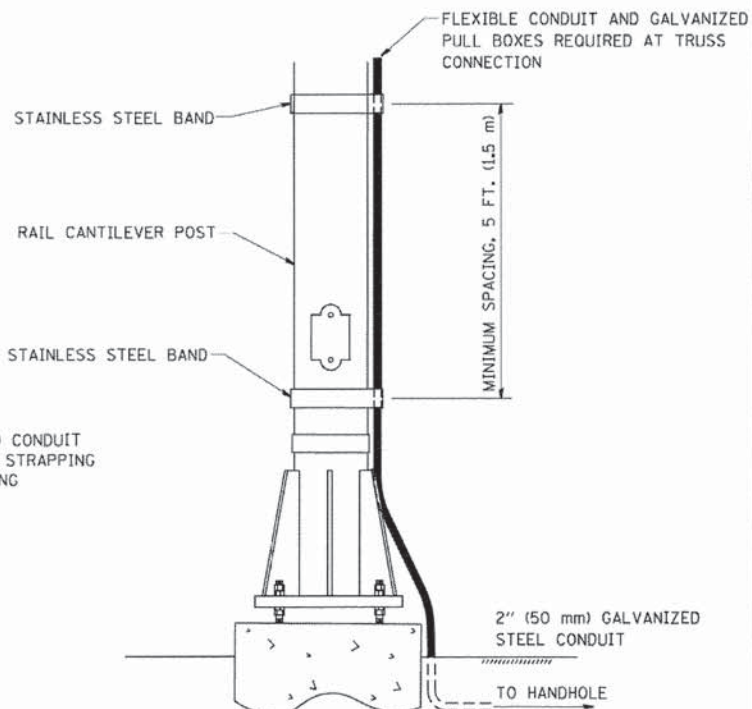
POST MOUNTED FLASHING BEACON

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

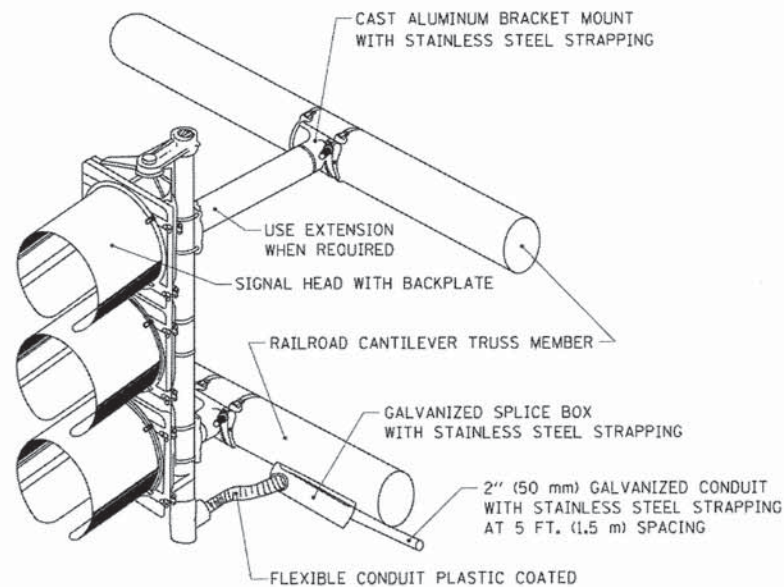
F.A. RTE. 1321	SECTION 11-00048-00-SP	COUNTY DUPAGE	TOTAL SHEETS 277	SHEET NO. 231
TS-04		CONTRACT NO. 63872		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



RAILROAD CANTILEVER SIGNAL HEAD MOUNTING

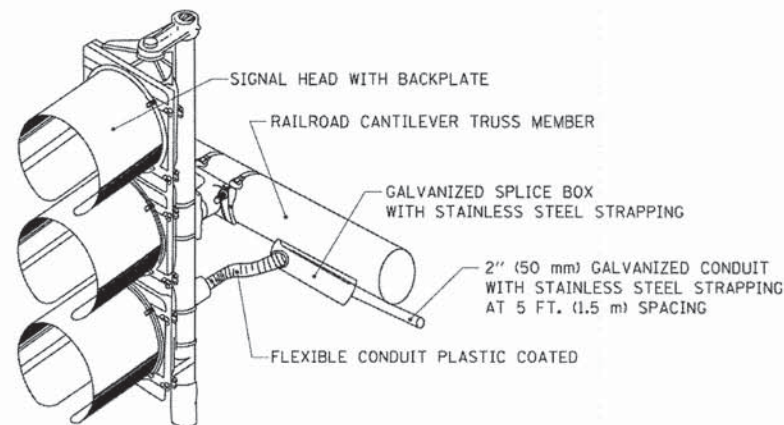


SIGNAL CONDUIT CONNECTION TO RAIL CANTILEVER DETAIL



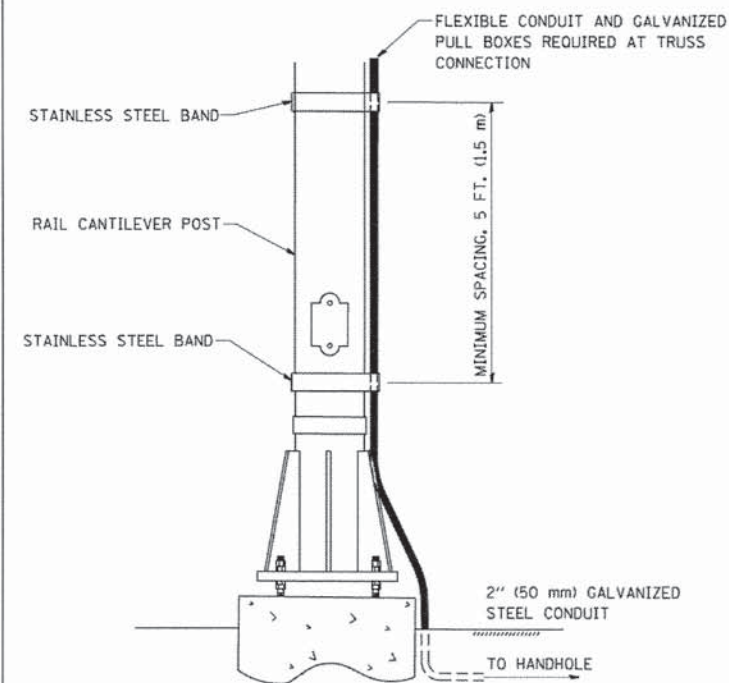
NOTE: USE NONCONDUCTIVE SPACERS BETWEEN THE TRAFFIC SIGNAL EQUIPMENT AND THE RAILROAD CANTILEVER TO PREVENT DISSIMILAR METAL CORRSION.

RAILROAD CANTILEVER SIGNAL HEAD MOUNTING



NOTE: USE NONCONDUCTIVE SPACERS BETWEEN THE TRAFFIC SIGNAL EQUIPMENT AND THE RAILROAD CANTILEVER TO PREVENT DISSIMILAR METAL CORRSION.

RAILROAD CANTILEVER SIGNAL HEAD MOUNTING



NOTE: USE NONCONDUCTIVE SPACERS BETWEEN THE TRAFFIC SIGNAL EQUIPMENT AND THE RAILROAD CANTILEVER TO PREVENT DISSIMILAR METAL CORRSION.

SIGNAL CONDUIT CONNECTION TO RAIL CANTILEVER DETAIL

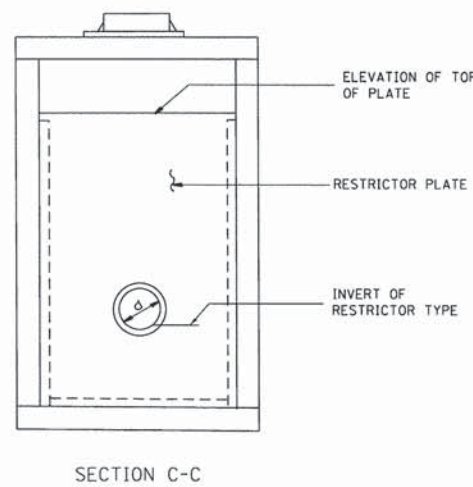
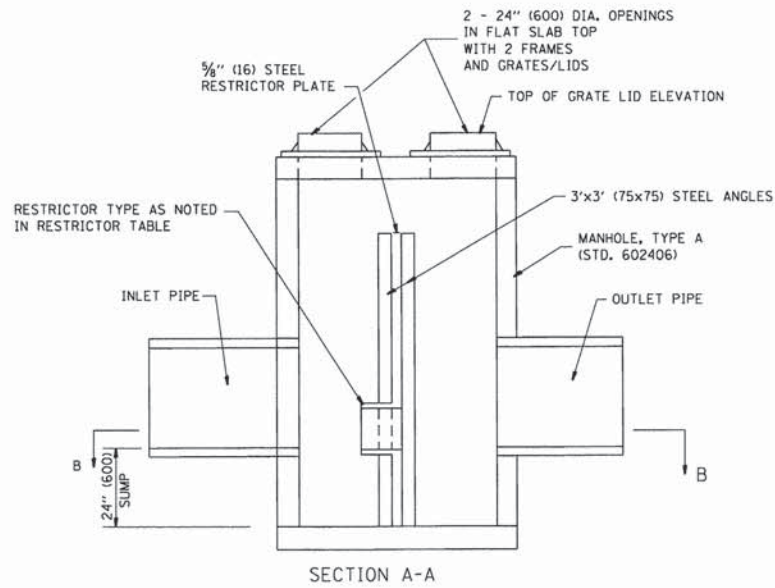
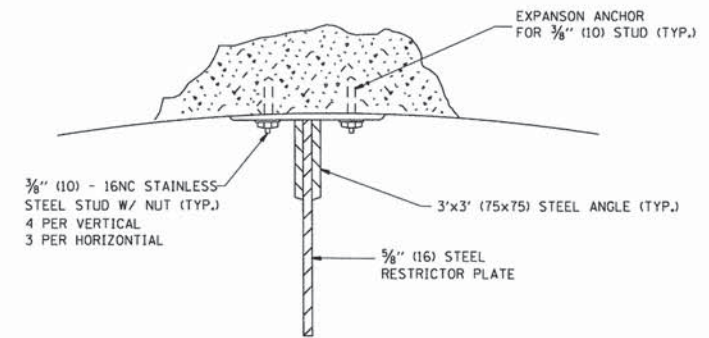
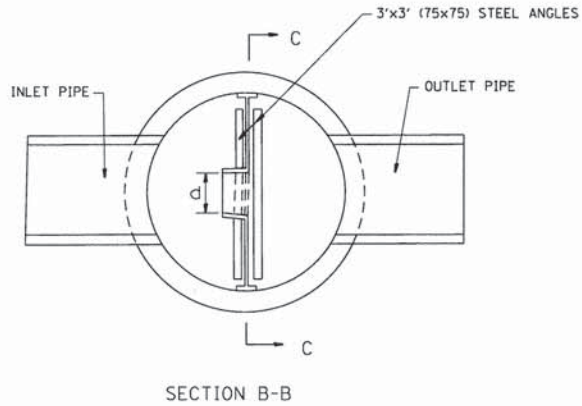
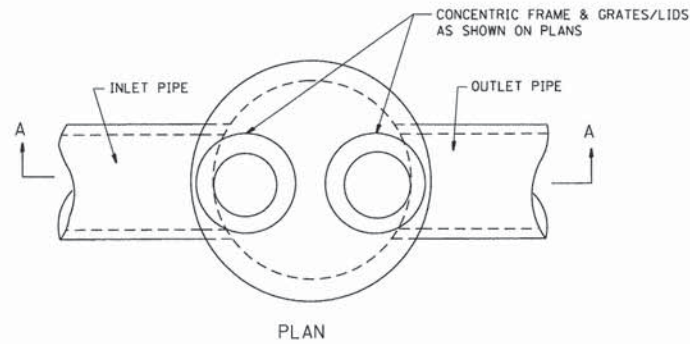
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 PLOT DRIVER: pd/cg/rt
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RAILROAD CANTILEVER
 SIGNAL HEAD MOUNTING DETAIL

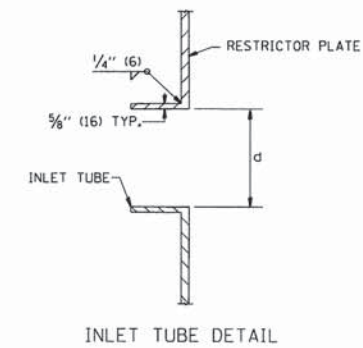
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	11-00048-00-SP	DUPAGE	277	232
TS-06			CONTRACT NO. 63872	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.



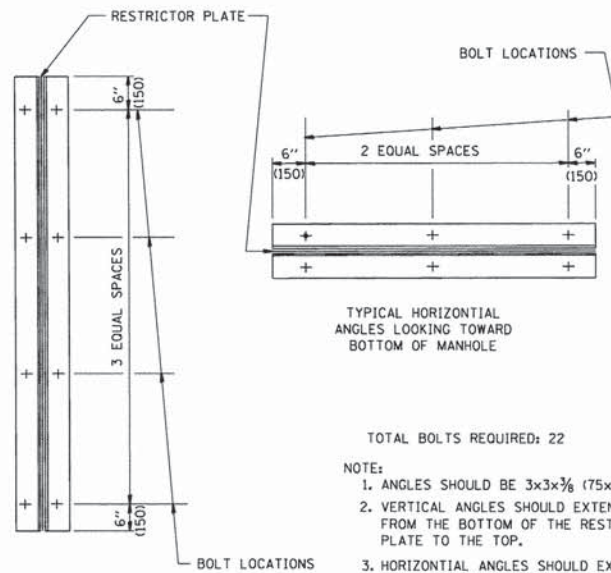
NOTES:

1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
3. BASIS OF PAYMENT: "MANHOLES, TYPE A, 6 FT. (1.8 m)-DIAMETER, TYPE I FRAME, CLOSED LID, RESTRICTOR PLATE" EACH



STATION	MANHOLE DIAMETER	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER in. (mm) (d)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW
* 51+12	9'	(2) T1F CL	3	18	672.67	675.99
301+37.5	6'	(2) T1F CL	3	12	673.50	678.66

* THE 42" STORM SEWER IS NOT TO BE DETAINED.



TOTAL BOLTS REQUIRED: 22

NOTE:

1. ANGLES SHOULD BE 3x3x3/8 (75x75x75)
2. VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
3. HORIZONTAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.

STEEL ANGLE BOLTING DETAILS

RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
LENGTH: 1/2 TO 1 DIA.		STREAM CLEARS SIDES	LENGTH: 2-1/2 DIA.	LENGTH: 2-1/2 DIA.	
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

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

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
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 PLOT TABLE: standard-iron.tbl



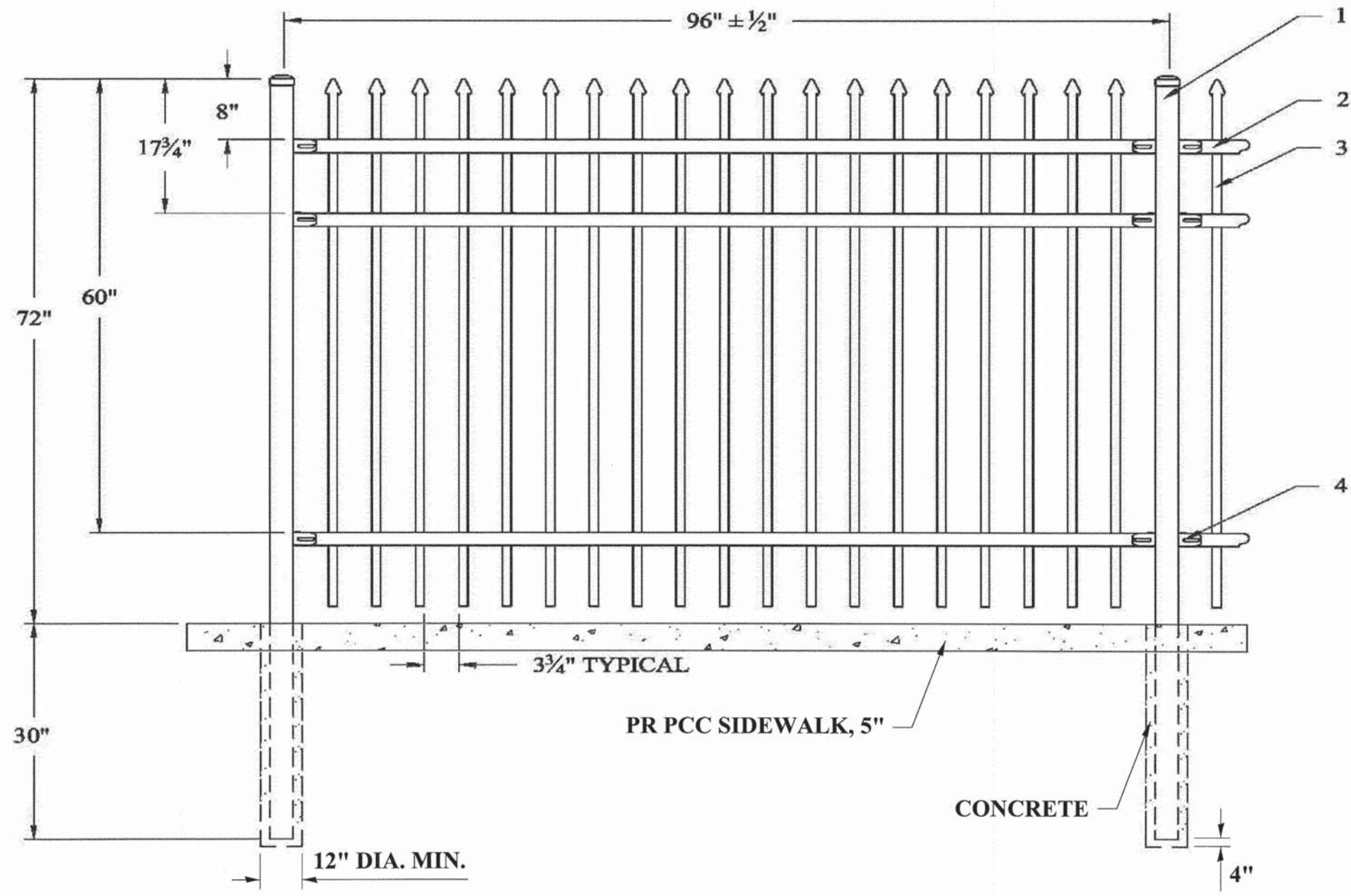
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PLOT DATE = 2/16/2015	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS

SCALE: SHEET NO. 20 OF 20 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
			277	233
CONTRACT NO. 63872				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



#	QTY.	DESCRIPTION
1	2	2 1/2" Sq. POST
2	3	1 3/4" CHANNEL RAIL
3	19	1" Sq. PICKET
4	6	BRACKETS

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
 CLIENT: HRGreen.com
 DATE PLOTTED: 2/16/2015 1:47:55 PM
 FILE NAME: 023.dwt2L.dgn
 PLOT DRIVER: pdf.plt
 PEN TABLE: standard-trans.tbl



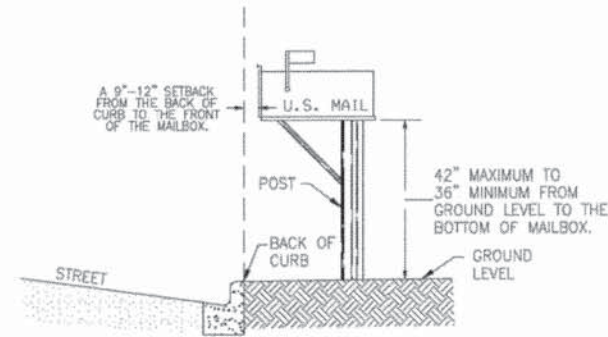
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PLOT DATE = 2/16/2015	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CITY OF WOOD DALE DETAILS	
FENCE DETAIL	
SCALE:	SHEET NO. 1 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
		DUPAGE	277	234
CONTRACT NO. 63812				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

1. MAILBOX POST HEIGHT IS 42" MAXIMUM - 36" MINIMUM MEASURED FROM BOTTOM OF MAILBOX TO GROUND LEVEL.
2. THE FRONT OF THE MAILBOX MAY NOT EXTEND BEYOND THE BACK OF CURB OR OVERHANG THE CURB OR STREET. A 9" SETBACK MEASURED FROM THE BACK OF CURB TO THE FRONT OF THE MAILBOX IS SUGGESTED. HOWEVER, THE FRONT OF THE MAILBOX SHOULD NOT BE GREATER THAN 12" FROM THE BACK OF THE CURB IN ORDER TO REMAIN ACCESSIBLE TO POSTAL CARRIERS.
3. MAILBOXES AND SUPPORTING FIXTURES SHALL NOT BE INSTALLED WITHIN 10- FEET OF THE POINT OF CURVATURE OF ANY STREET INTERSECTION.



MAILBOX

CITY OF WOOD DALE STANDARD DETAIL

COMPANY NAME: HRGreen
 CLIENT CONTACT: HRGreen
 DATE PLOTTED: 2/16/2015 1:48:29 PM
 FILE NAME: 023_det-CityofWooddale-mbx.dgn
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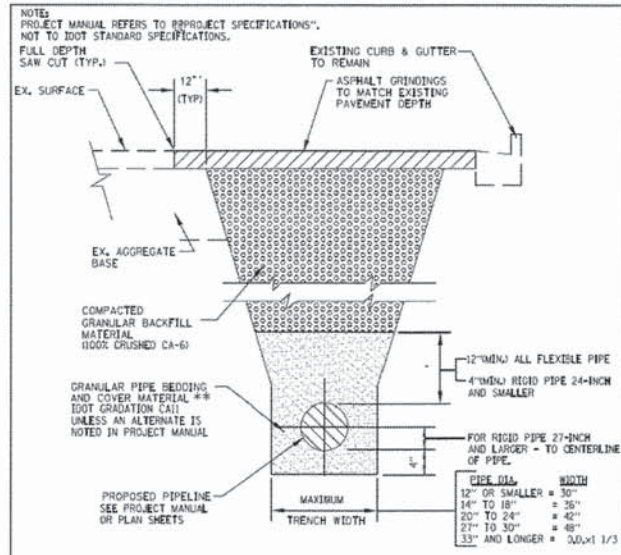
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PLOT SCALE = N.T.S.	CHECKED - DTH	REVISED -
PLOT DATE = 2/16/2015	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CITY OF WOOD DALE DETAILS
 MAILBOX

SCALE: N.T.S. SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
			277	235
CONTRACT NO. 63872				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

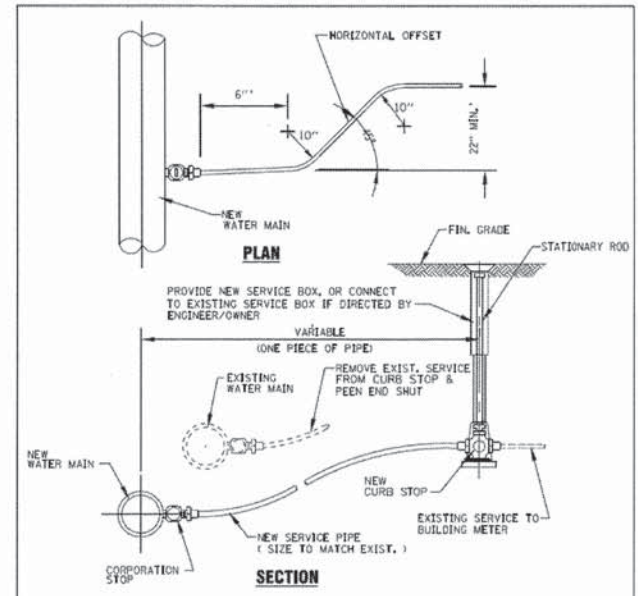


TYPICAL WATER MAIN TRENCH DETAIL
CITY OF WOOD DALE STANDARD DETAIL

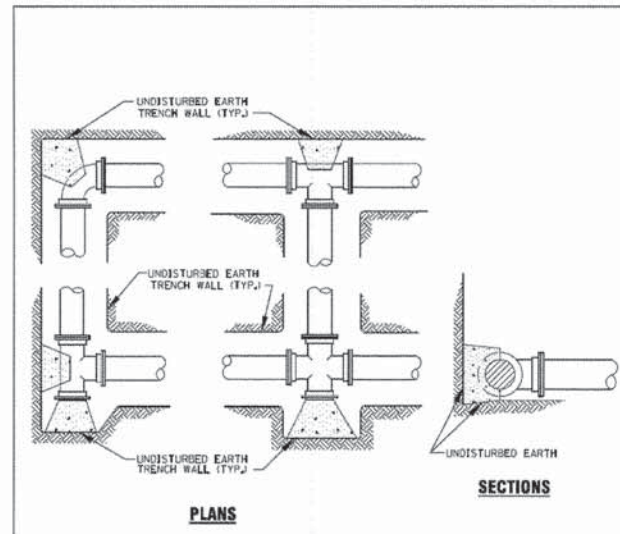
** FOR PAVEMENT WITH AGGREGATE BASE AND COMPACTED GRANULAR BACKFILL MATERIAL

FOR FLEXIBLE THERMOPLASTIC PIPE COMPLY WITH ASTM D2321, CLASS 1A, 1B, OR 3L (DOT GRADATION CA15)

FOR RIGID PIPE COMPLY WITH ASTM C12, BEDDING CLASS B.

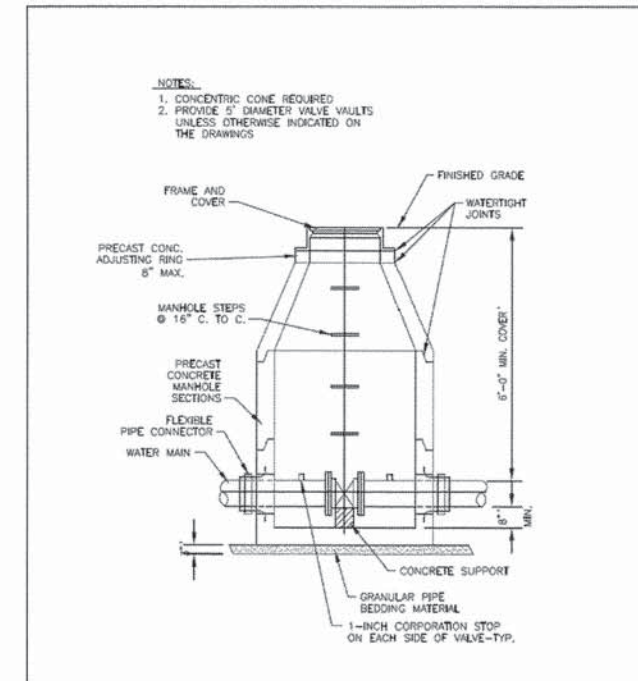


EXISTING WATER SERVICE RECONNECTION DETAIL
CITY OF WOOD DALE STANDARD DETAIL



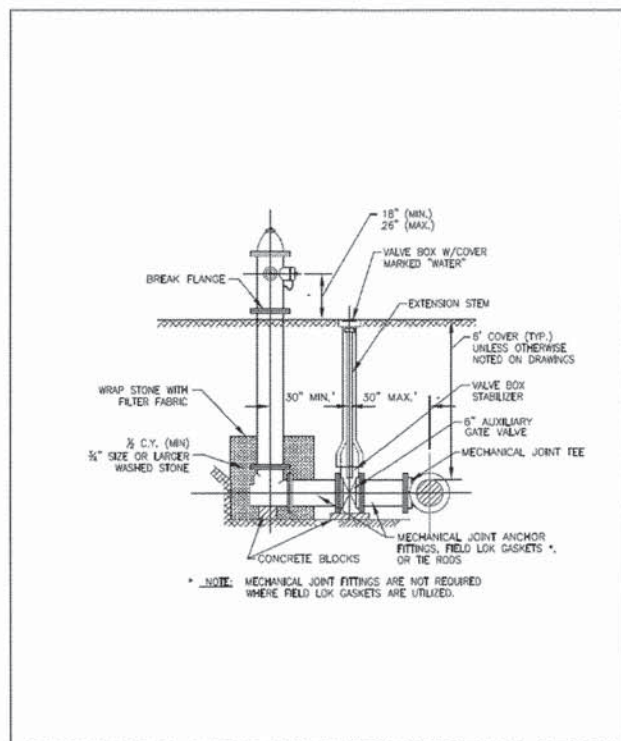
TYPICAL THRUST BLOCK INSTALLATIONS
CITY OF WOOD DALE STANDARD DETAIL

- NOTES:
1. PROVIDE PRECAST OR CAST-IN-PLACE CONCRETE THRUST BLOCKS OF ADEQUATE SIZE AND THRUST BEARING SURFACE TO PREVENT MOVEMENT OF PIPELINE UNDER PRESSURE.
 2. PLACE THE BASE AND THRUST BEARING SIDES OF THRUST BLOCK DIRECTLY AGAINST UNDISTURBED EARTH.
 3. PLACE THRUST BLOCKING SO THE FITTING JOINTS WILL BE ACCESSIBLE FOR REPAIR.

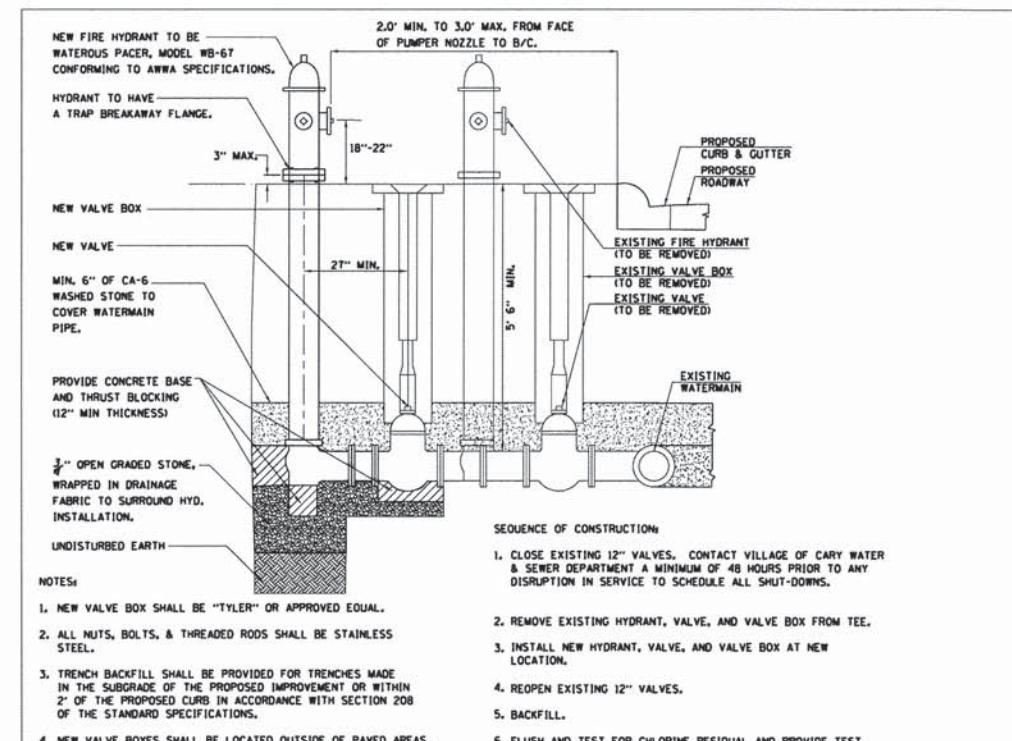


WATER VALVE VAULT DETAIL
CITY OF WOOD DALE STANDARD DETAIL

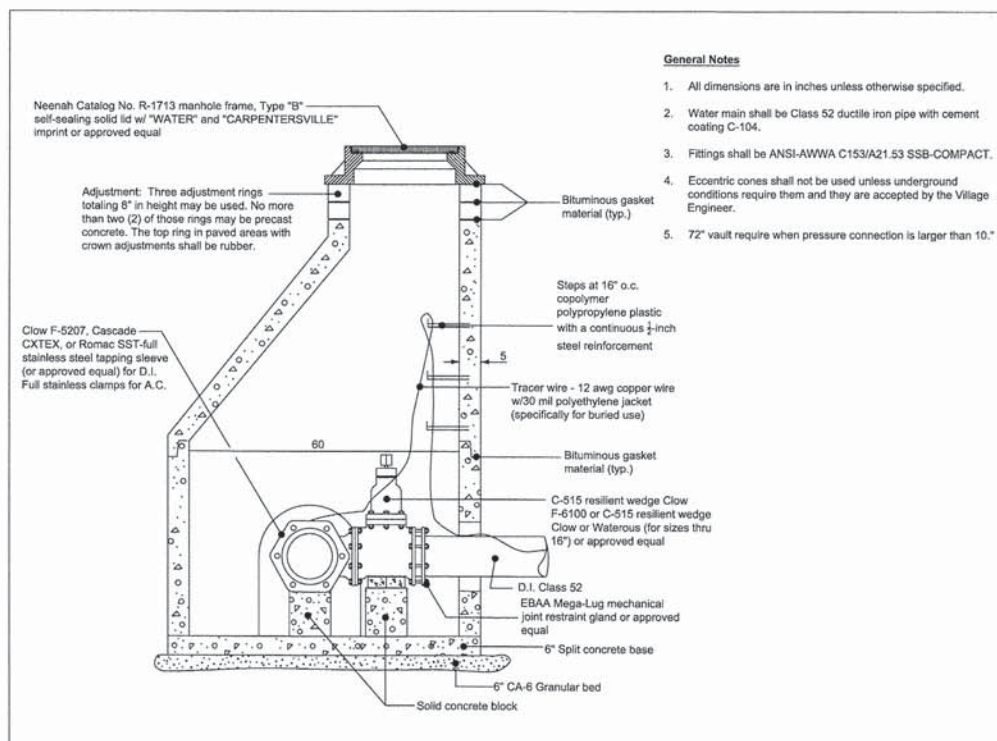
- NOTES:
1. CONCENTRIC CONE REQUIRED
 2. PROVIDE 5" DIAMETER VALVE VAULTS UNLESS OTHERWISE INDICATED ON THE DRAWINGS



STANDARD FIRE HYDRANT INSTALLATION
CITY OF WOOD DALE STANDARD DETAIL



FIRE HYDRANTS TO BE RELOCATED



PRESSURE CONNECTION

W-3 012908

COMPANY NAME: HRGreen
PROJECT CONTACT: HRGreen
CLIENT: HRGreen
DATE PLOTTED: 2/16/2015 14:46:36 PM
FILE NAME: 023_det-wr-01.dgn
PLOT DRIVER: pdfplot
PEN TABLE: standard-trans.tbl

HRGreen
Illinois Professional Design Firm
#184-001322

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PLOT DATE = 2/16/2015	DATE -	REVISED -

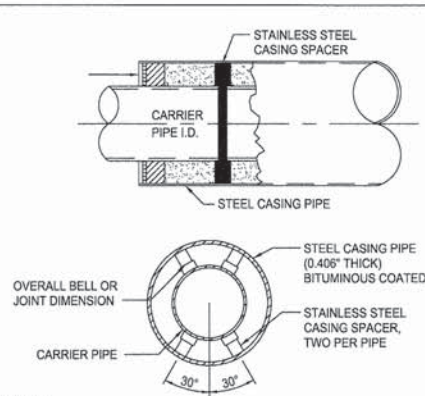
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF WOOD DALE DETAILS
WATER MAIN DETAILS

SCALE: N.T.S. SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
		DUPAGE	277	236
CONTRACT NO. 63872				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

AUGER CASING PIPE DETAIL



- NOTES:
1. THE CARRIER WATER MAIN PIPE SHALL BE CLASS 52 DUCTILE IRON PIPE, "CENTER SPACED" AND RESTRAINED ON TOP AND BOTTOM UTILIZING TWO CASING SPACERS EQUALLY SPACED PER LENGTH OF PIPE.
 2. CASING TO BE SEALED AT BOTH ENDS.
 3. STEEL CASING PIPE SHALL BE IN ACCORDANCE WITH ASTM A139 WITH A YIELD STRENGTH OF 35,000 PSI MINIMUM WALL THICKNESS OF 0.406"
 4. WELDS SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY(AWS) D1.1 AND BE CONTINUOUS CIRCUMFERENTIAL WELDS. THE STEEL CASING PIPE SHALL HAVE A BITUMINOUS COAT ON THE INSIDE AND OUTSIDE SURFACE IN ACCORDANCE WITH AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS(AASHTO) M190.
 5. CASING END SEALS SHALL BE SYNTHETIC RUBBER WITH STAINLESS STEEL BANDING AS MANUFACTURED BY PIPELINE SEAL AND INSULATOR, INC.(PSI), CASCADE WATERWORKS MFG. CO. - MODEL CCES.

- NOTES:
1. THE WATER MAIN SHALL BE "CENTER SPACED" AND RESTRAINED ON TOP AND BOTTOM UTILIZING TWO CASING SPACERS EQUALLY SPACED PER LENGTH OF PIPE.
 2. CASING SPACERS ARE TO BE CASCADE MFG. BRAND OR APPROVED EQUAL.
 3. WATER MAIN JOINTS WITHIN THE CASING SHALL BE RESTRAINED UTILIZING U.S. PIPE FIELD LOK GASKETS.

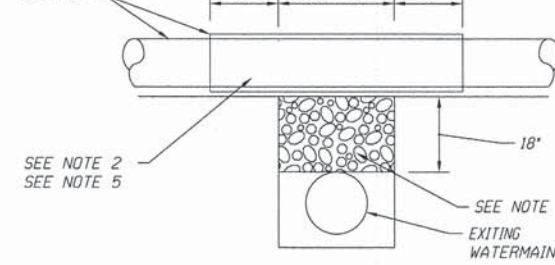
PIPE CASING DETAIL FOR WATER MAINS

WATER AND SEWER VERTICAL SEPARATION REQUIREMENTS DETAIL

EXISTING WATERMAIN BELOW PROPOSED SEWER LINE WITH 18" MINIMUM SEPARATION.

NOTE: CLASS IV MATERIAL TO BE COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY.

PROPOSED SEWER SEE 3a, OR PROPOSED CASING SEE 3b

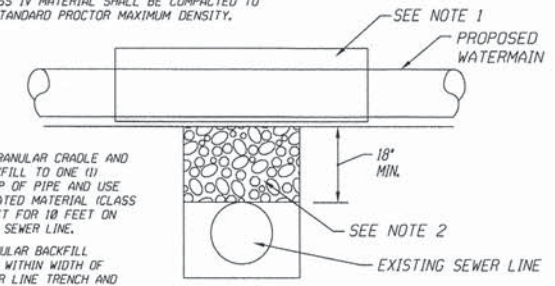


- NOTES:
1. IF SELECT GRANULAR BACKFILL EXISTS; REMOVE WITHIN WIDTH OF PROPOSED SEWER TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.
 2. OMIT SELECT GRANULAR CRADLE AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF PIPE AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT FOR 18 FEET ON EITHER SIDE OF WATER MAIN.
 3. a. CONSTRUCT 10 FEET OF PROPOSED SEWER WITH WATERMAIN QUALITY PIPE AND PRESSURE TEST, OR; b. USE 10 FEET OF CASING FOR PROPOSED SEWER AND SEAL ENDS OF CASING.
 4. POINT LOADS SHALL NOT BE ALLOWED BETWEEN SEWER OR SEWER CASING AND WATER MAIN.
 5. PROVIDE ADEQUATE SUPPORT FOR EXISTING WATERMAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH.

▲ TAKEN FROM THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS - SEE PAGES 156-159.

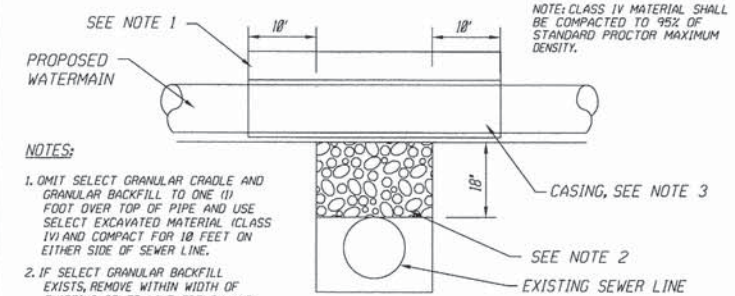
PROPOSED WATERMAIN ABOVE EXISTING SEWER LINE WITH 18" MINIMUM SEPARATION.

NOTE: CLASS IV MATERIAL SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY.



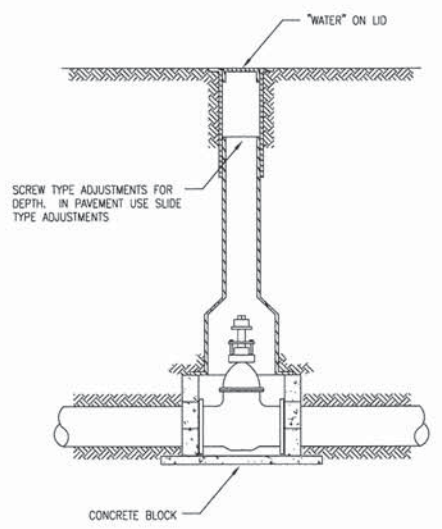
- NOTES:
1. OMIT SELECT GRANULAR CRADLE AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF PIPE AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT FOR 18 FEET ON EITHER SIDE OF SEWER LINE.
 2. IF SELECT GRANULAR BACKFILL EXISTS; REMOVE WITHIN WIDTH OF EXISTING SEWER LINE TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.

PROPOSED WATER MAIN ABOVE EXISTING SEWER LINE WITH LESS THAN 18" SEPARATION.



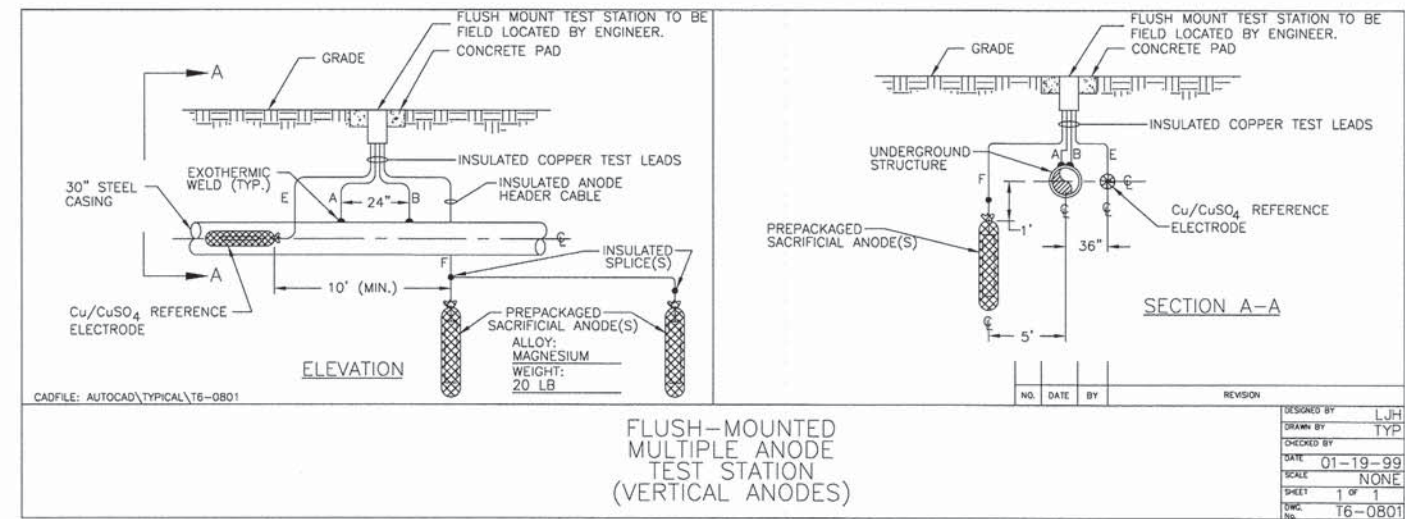
- NOTES:
1. OMIT SELECT GRANULAR CRADLE AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF PIPE AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT FOR 18 FEET ON EITHER SIDE OF SEWER LINE.
 2. IF SELECT GRANULAR BACKFILL EXISTS; REMOVE WITHIN WIDTH OF EXISTING SEWER LINE TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.
 3. USE A CASING FOR PROPOSED WATER MAIN AND SEAL ENDS OF CASING.
 4. POINT LOADS SHALL NOT BE ALLOWED BETWEEN WATER MAIN OR WATERMAIN AND SEWER.

U-5



TYPICAL VALVE BOX INSTALLATION

STANDARD DRAWING NO.14



FLUSH-MOUNTED MULTIPLE ANODE TEST STATION (VERTICAL ANODES)

DESIGNED BY	LJH
DRAWN BY	TYP
CHECKED BY	
DATE	01-19-99
SCALE	NONE
SHEET	1 OF 1
DWG. NO.	16-0801

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
 CLIENT: Illinois Professional Design Firm
 DATE PLOTTED: 2/16/2015 1:49:20 PM
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 PLOT DRIVER: pdfplot
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HRGreen
 HRGreen.com
 Illinois Professional Design Firm
 # 184-001322

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PLOT DATE = 2/16/2015	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

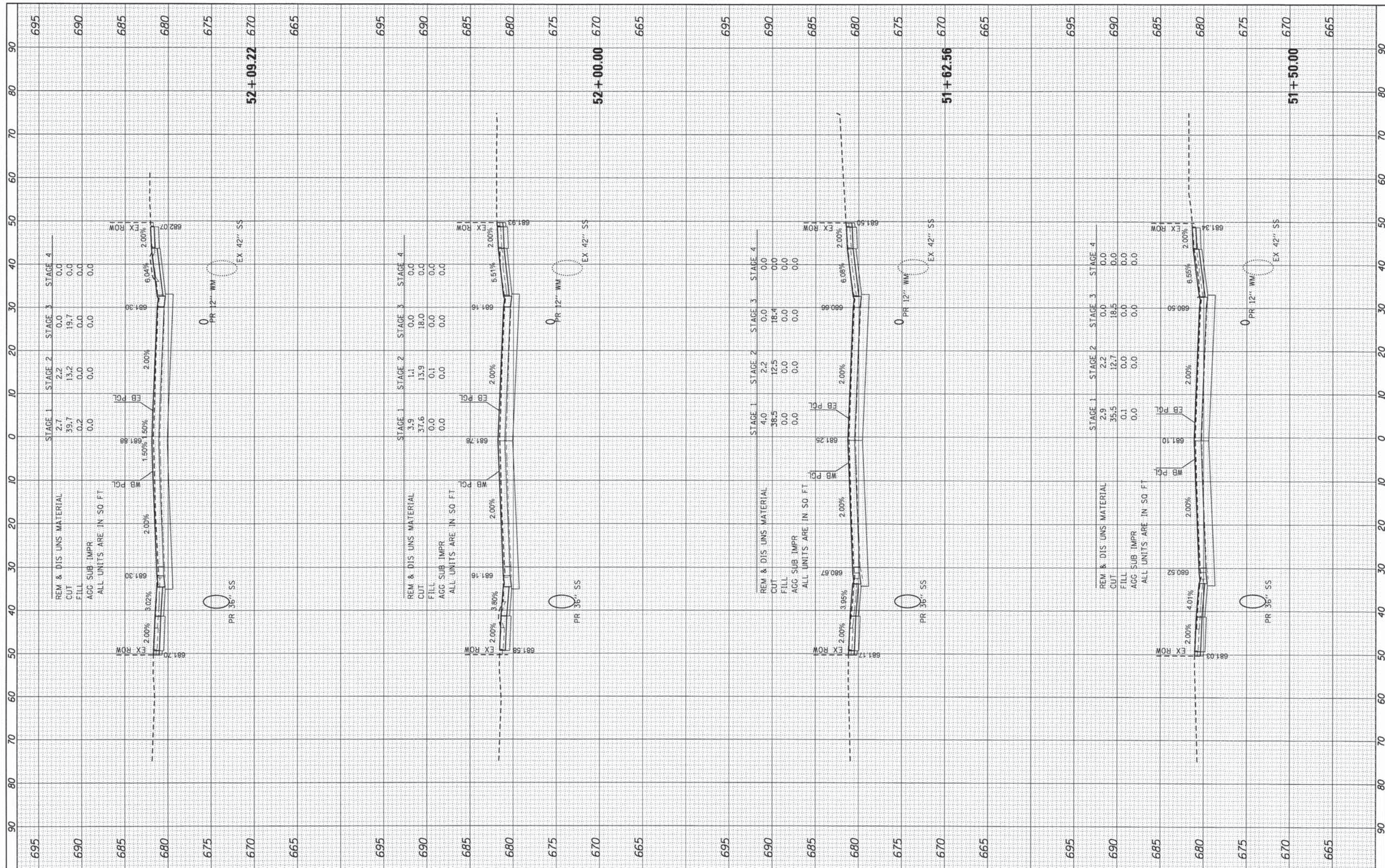
CITY OF WOOD DALE DETAILS
 WATER MAIN DETAILS

SCALE: N.T.S. SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
		DUPAGE	277	237
CONTRACT NO. 63872				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINISHED SURVEY	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

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



HRGreen.com
 Illinois Professional Design Firm
 #184-001322

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 PLOT SCALE = 1"=18'
 PLOT DATE = 2/19/2015

DESIGNED - JRM
 DRAWN - JPA
 CHECKED - DTH
 DATE - 2/2/2015

REVISED -
 REVISED -
 REVISED -
 REVISED -

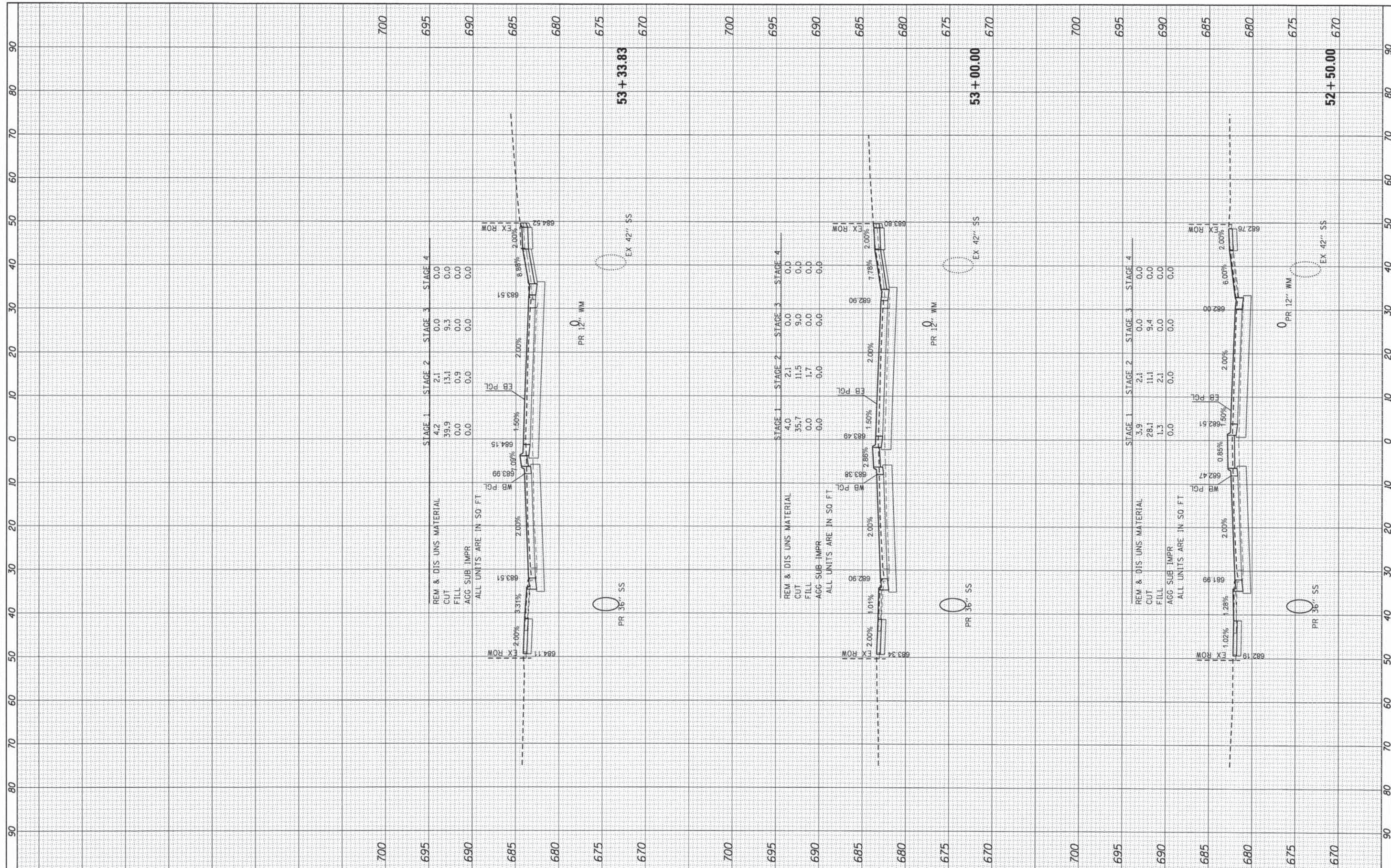
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED CROSS SECTIONS
 ILLINOIS ROUTE 19**
 SCALE: 1"=10' SHEET 2 OF 17 SHEETS STA. 51+50.00 TO STA. 52+09.22

F.A.U. RTE. 1321	SECTION 11-00048-00-SP	COUNTY	TOTAL SHEETS 277	SHEET NO. 239
		DUPAGE	CONTRACT NO. 63872	
ILLINOIS FED. AID PROJECT				

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

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



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PLOT SCALE = 1"=10'	CHECKED - DTH	REVISED -
PLOT DATE = 2/19/2015	DATE - 2/2/2015	REVISED -

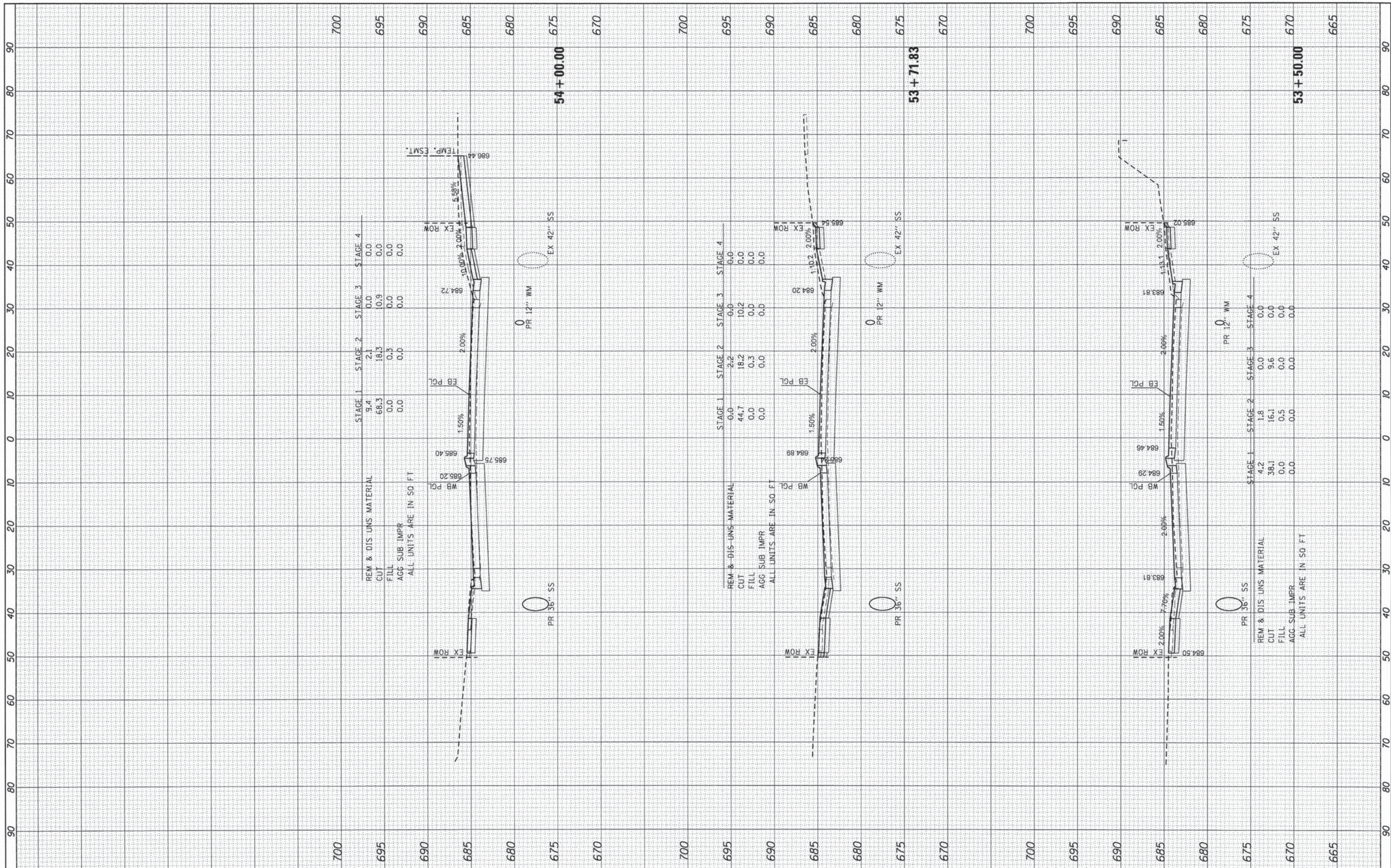
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED CROSS SECTIONS			
ILLINOIS ROUTE 19			
SCALE: 1"=10'	SHEET 3 OF 17 SHEETS	STA. 52+50.00	TO STA. 53+33.83

F.A.U. RTE. 1321	SECTION 11-00048-00-SP	COUNTY DUPAGE	TOTAL SHEETS 277	SHEET NO. 240
CONTRACT NO. 63872				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



REM & DIS UNS MATERIAL
CUT
FILL
AGG SUB IMPR
ALL UNITS ARE IN SQ FT

STAGE 1	STAGE 2	STAGE 3	STAGE 4
9.4	2.1	0.0	0.0
68.3	18.3	10.9	0.0
0.0	0.3	0.0	0.0
0.0	0.0	0.0	0.0

REM & DIS UNS MATERIAL
CUT
FILL
AGG SUB IMPR
ALL UNITS ARE IN SQ FT

STAGE 1	STAGE 2	STAGE 3	STAGE 4
0.0	2.2	0.0	0.0
44.7	18.2	10.2	0.0
0.0	0.3	0.0	0.0
0.0	0.0	0.0	0.0

REM & DIS UNS MATERIAL
CUT
FILL
AGG SUB IMPR
ALL UNITS ARE IN SQ FT

STAGE 1	STAGE 2	STAGE 3	STAGE 4
4.2	1.8	0.0	0.0
38.1	16.1	9.6	0.0
0.0	0.5	0.0	0.0
0.0	0.0	0.0	0.0

HRGreen
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Illinois Professional Design Firm
#184-001322

USER NAME = jhorwit	DESIGNED - JRM	REVISED -
FILE NAME = 023_KS1119-SHEET.dgn	DRAWN - JPA	REVISED -
PLOT SCALE = 1"=10'	CHECKED - DTH	REVISED -
PLOT DATE = 2/19/2015	DATE - 2/2/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED CROSS SECTIONS
ILLINOIS ROUTE 19**

SCALE: 1"=10' SHEET 4 OF 17 SHEETS STA. 53+50.00 TO STA. 54+00.00

F.A.U. RTE. 1321	SECTION 11-00048-00-SP	COUNTY	TOTAL SHEETS 277	SHEET NO. 241
CONTRACT NO. 63872			ILLINOIS FED. AID PROJECT	

BT	DATE

BT	DATE

ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREAS	AREAS
CHECKED	CHECKED
NO.	NO.

ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREAS	AREAS
CHECKED	CHECKED
NO.	NO.

ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREAS	AREAS
CHECKED	CHECKED
NO.	NO.

ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREAS	AREAS
CHECKED	CHECKED
NO.	NO.

ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREAS	AREAS
CHECKED	CHECKED
NO.	NO.

ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREAS	AREAS
CHECKED	CHECKED
NO.	NO.

ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREAS	AREAS
CHECKED	CHECKED
NO.	NO.

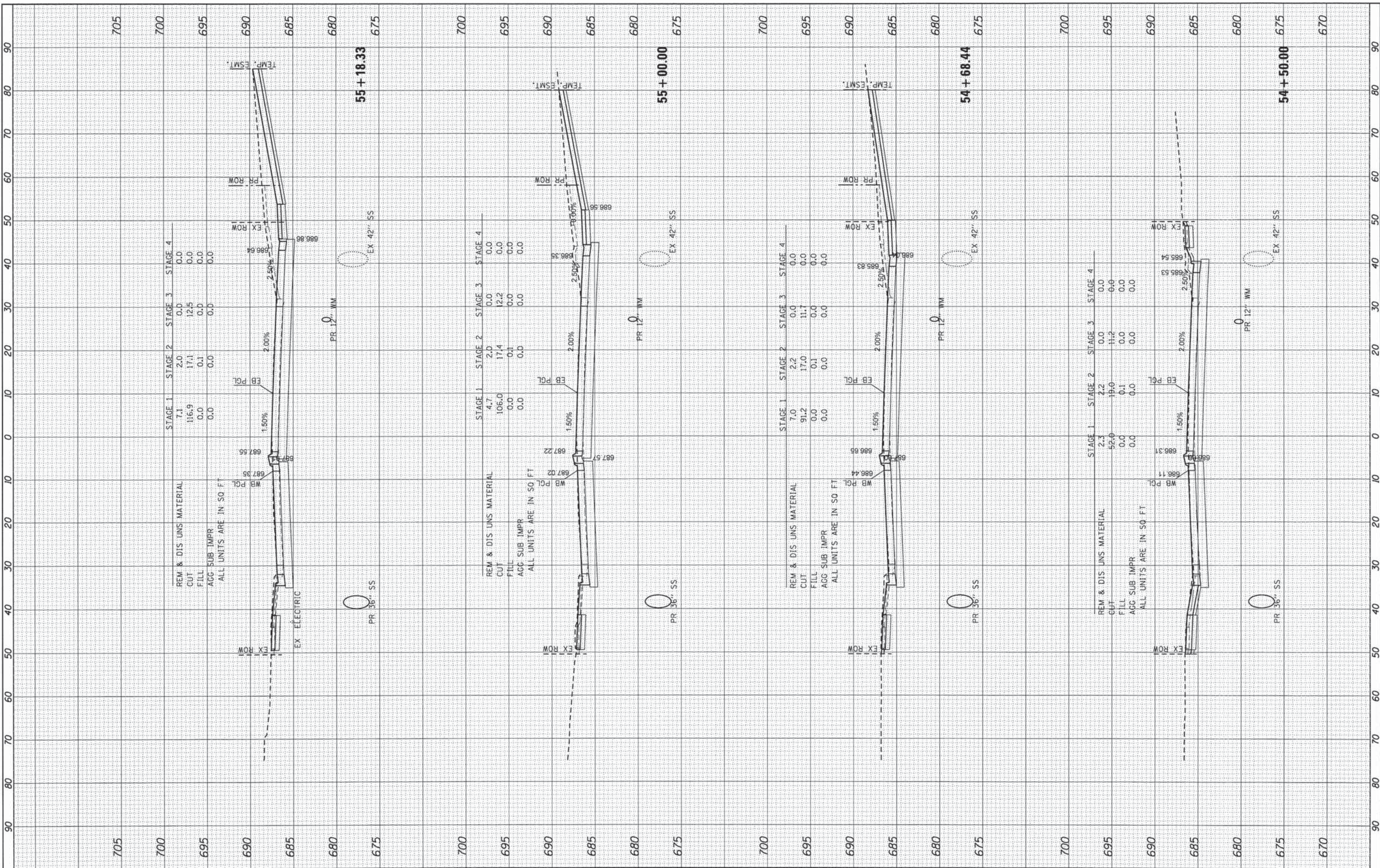
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREAS	AREAS
CHECKED	CHECKED
NO.	NO.

ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREAS	AREAS
CHECKED	CHECKED
NO.	NO.

ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREAS	AREAS
CHECKED	CHECKED
NO.	NO.

ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREAS	AREAS
CHECKED	CHECKED
NO.	NO.

ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREAS	AREAS
CHECKED	CHECKED
NO.	NO.



USER NAME = jhorwst	DESIGNED - JRM	REVISED -
FILE NAME = 023.XS1119-SHEET.dgn	DRAWN - JPA	REVISED -
PLOT SCALE = 1"=10'	CHECKED - DTH	REVISED -
PLOT DATE = 2/19/2015	DATE - 2/2/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

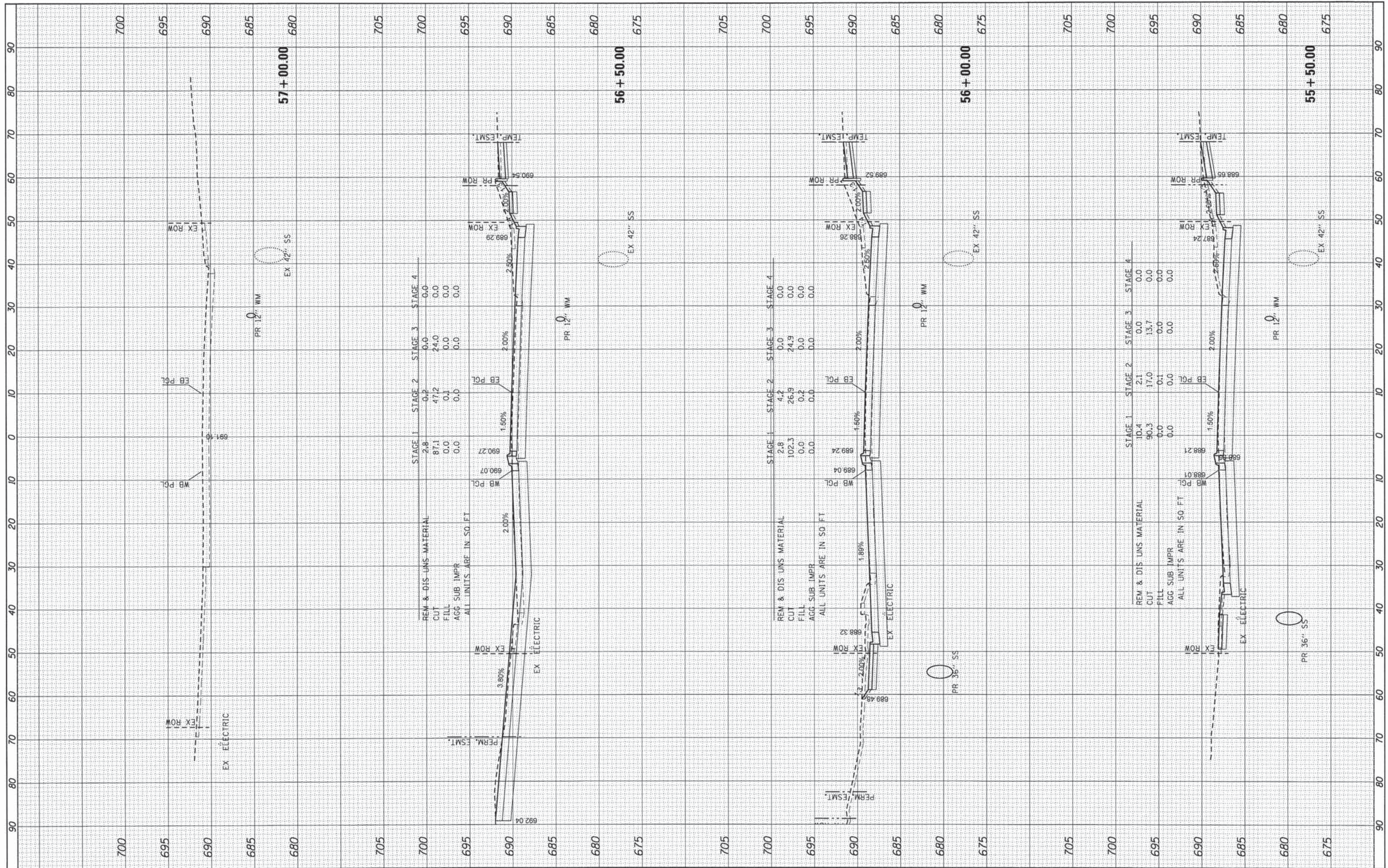
**PROPOSED CROSS SECTIONS
ILLINOIS ROUTE 19**

SCALE: 1"=10' SHEET 5 OF 17 SHEETS STA. 54+50.00 TO STA. 55+18.33

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	11-00048-00-SP	DUPAGE	277	242
CONTRACT NO. 63872			ILLINOIS FED. AID PROJECT	

FINL	EXPCTD	DATE
SURVY	PLOTTD	
NOTE BOK	TMPLT	
NO.	AREAS	
	CHECKD	

ORIGNL	BY	DATE
SURVY		
NOTE BOK		
NO.		



HRGreen
 HRGreen.com
 Illinois Professional Design Firm
 #184-001322

USER NAME = jhorwit	DESIGNED - JRM	REVISED -
FILE NAME = 023.XS\119-SHEET.dgn	DRAWN - JPA	REVISED -
PLOT SCALE = 1"=10'	CHECKED - DTH	REVISED -
PLOT DATE = 2/19/2015	DATE - 2/2/2015	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

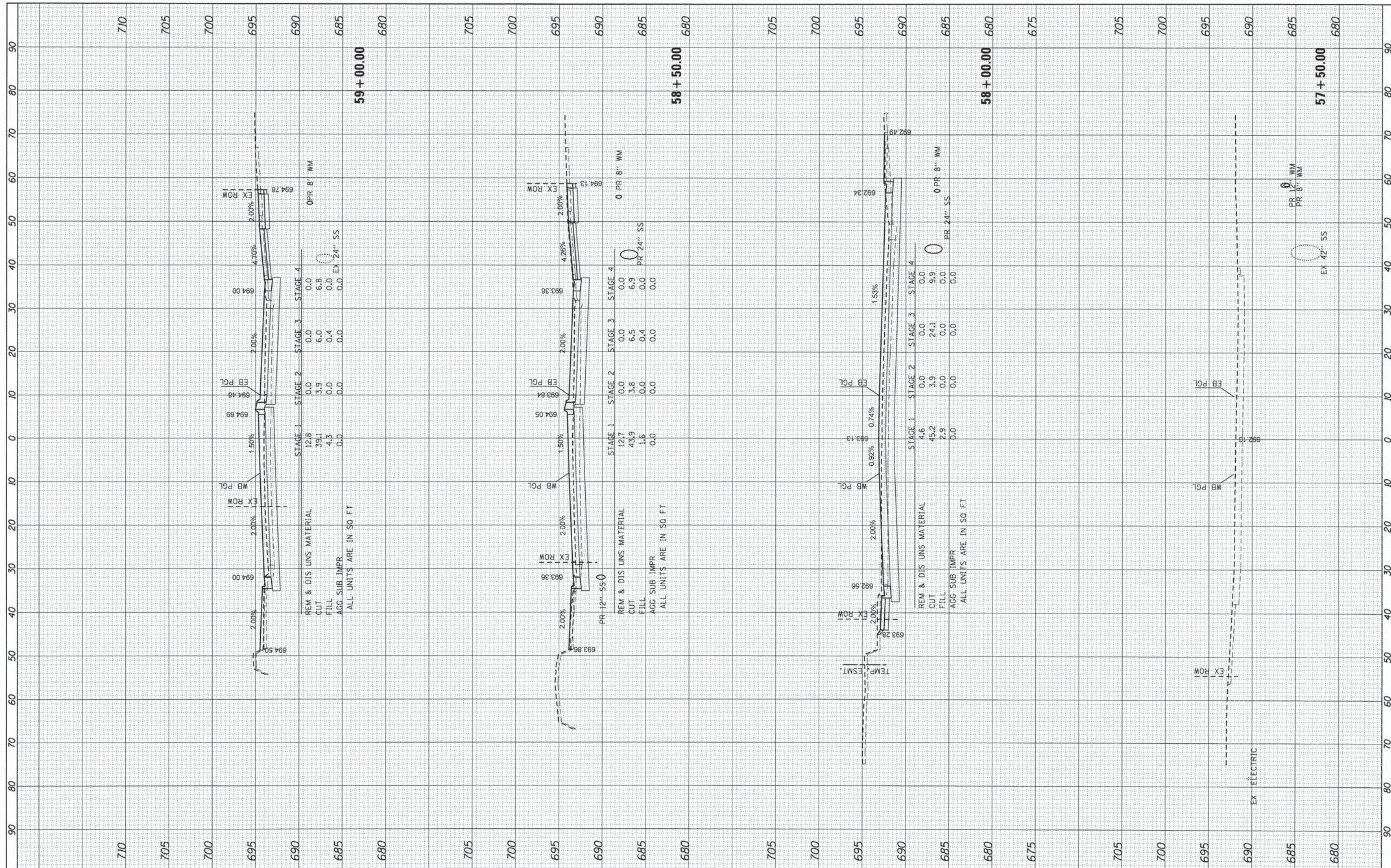
**PROPOSED CROSS SECTIONS
 ILLINOIS ROUTE 19**

SCALE: 1"=10' SHEET 6 OF 17 SHEETS STA. 55+50.00 TO STA. 57+00.00

F.A.U. RTE. 1321	SECTION 11-00048-00-SP	COUNTY DUPAGE	TOTAL SHEETS 277	SHEET NO. 243
ILLINOIS FED. AID PROJECT			CONTRACT NO. 63872	

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

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



USER NAME = jharwit
 FILE NAME = 023.XS1119-SHEET.dgn
 PLOT SCALE = 1"=10'
 PLOT DATE = 2/19/2015

DESIGNED - JRM
 DRAWN - JPA
 CHECKED - DTH
 DATE - 2/2/2015

REVISED -
 REVISED -
 REVISED -
 REVISED -

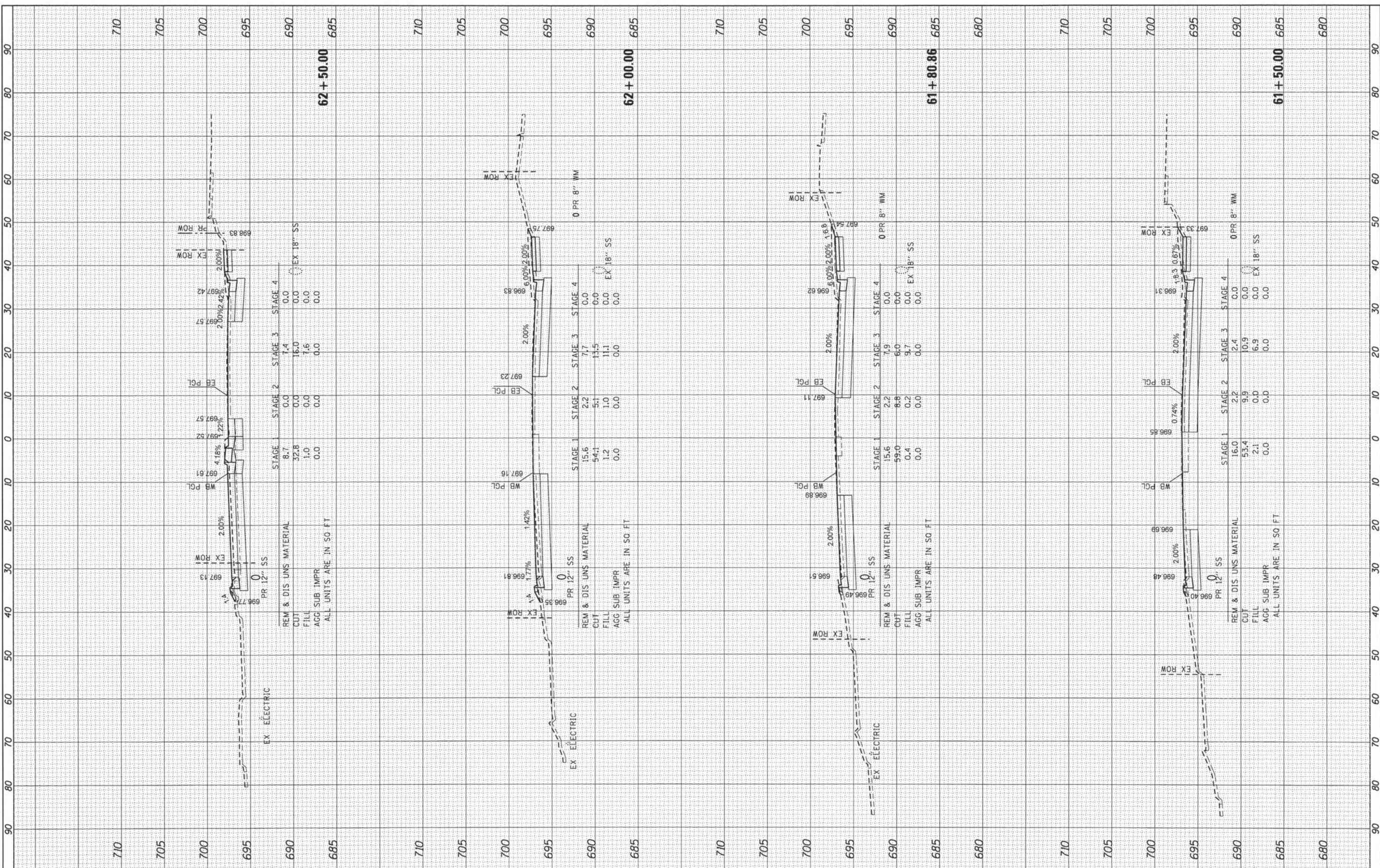
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED CROSS SECTIONS
 ILLINOIS ROUTE 19**
 SCALE: 1"=10' SHEET 7 OF 17 SHEETS STA. 57+50.00 TO STA. 59+00.00

F.A.U. RTE. 1321	SECTION 11-00048-00-SP	COUNTY DUPAGE	TOTAL SHEETS 277	SHEET NO. 244
CONTRACT NO. 63872				
ILLINOIS FED. AID PROJECT				

DATE	
BT	
NO.	
AREAS CHECKED	
AREAS	
NOTE BOOK	
PLOTTED	
SURVEY	
FINN	

DATE	
BT	
NO.	
AREAS CHECKED	
AREAS	
NOTE BOOK	
PLOTTED	
SURVEY	
ORIGINAL	



USER NAME	= jharwit
FILE NAME	= 023.XS1119-SHEET.dgn
PLOT SCALE	= 1"=10'
PLOT DATE	= 2/19/2015

DESIGNED	- JRM	REVISED	-
DRAWN	- JPA	REVISED	-
CHECKED	- DTH	REVISED	-
DATE	- 2/2/2015	REVISED	-

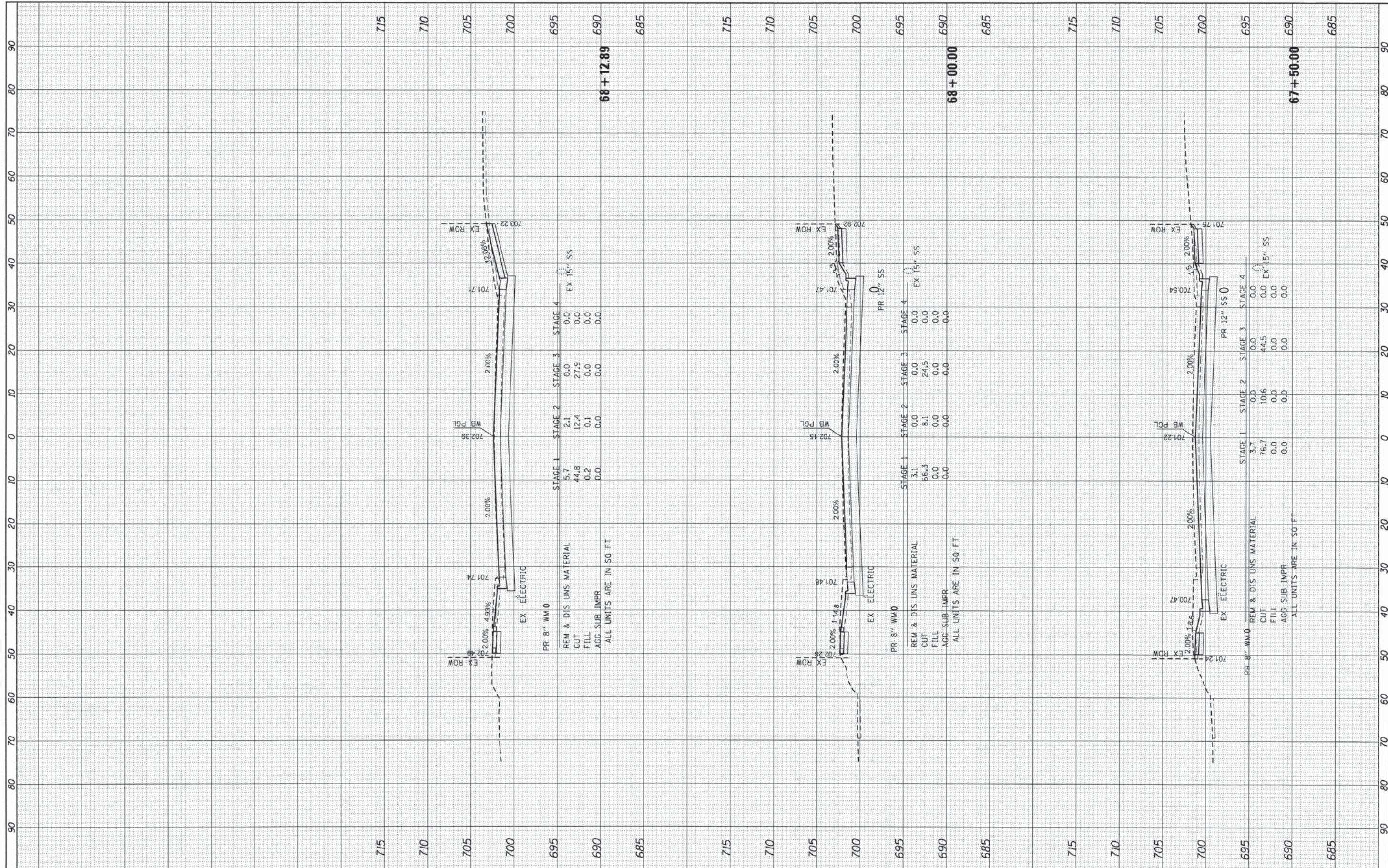
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED CROSS SECTIONS			
ILLINOIS ROUTE 19			
SCALE:	1"=10'	SHEET	10 OF 17 SHEETS
		STA.	61+50.00 TO STA. 62+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	11-00048-00-SP	DUPAGE	277	247
CONTRACT NO. 63872				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINN SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

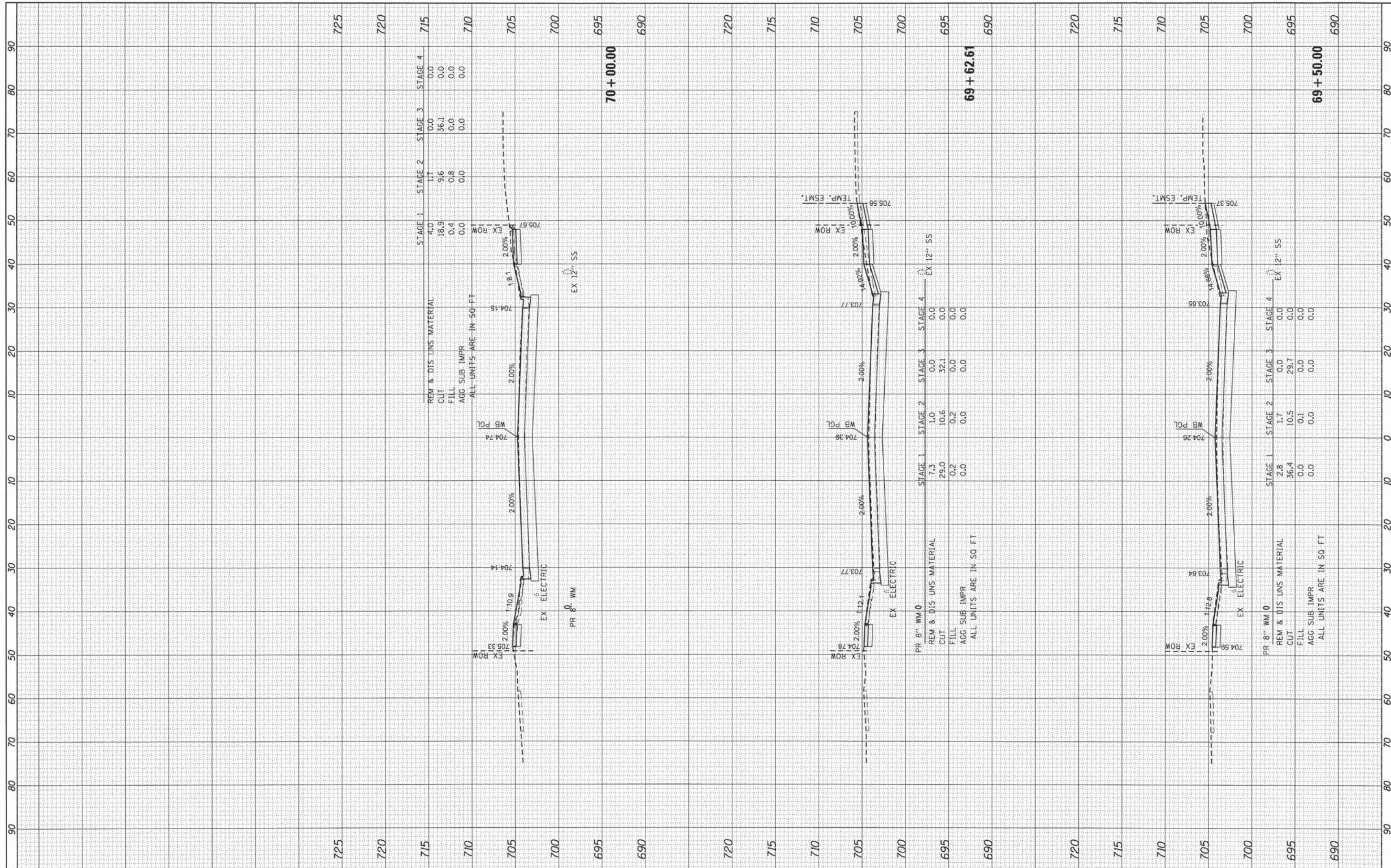
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



HRGreen.com Illinois Professional Design Firm #164-001322	USER NAME = jharwit FILE NAME = 023_XS1119-SHEET.dgn PLOT SCALE = 1"=10' PLOT DATE = 2/19/2015	DESIGNED - JRM DRAWN - JPA CHECKED - DTH DATE - 2/2/2015	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED CROSS SECTIONS ILLINOIS ROUTE 19			F.A.U. RTE. 1321 SECTION 11-00048-00-SP COUNTY DUPAGE TOTAL SHEETS 277 SHEET NO. 251 CONTRACT NO. 63872	
	ALL UNITS ARE IN SQ. FT.				SCALE: 1"=10' SHEET 14 OF 17 SHEETS STA. 67+50.00 TO STA. 68+12.89	ILLINOIS FED. AID PROJECT			
	REM & DIS UNS MATERIAL CUT FILL AGG. SUB IMPR				REM & DIS UNS MATERIAL CUT FILL AGG. SUB IMPR				
	EX ELECTRIC PR 8" WMØ				EX ELECTRIC PR 12" SSØ				

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

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



USER NAME = jhorwit	DESIGNED - JRM	REVISED -
FILE NAME = 023_X5119-SHEET.dgn	DRAWN - JPA	REVISED -
PLLOT SCALE = 1"=10'	CHECKED - DTH	REVISED -
PLLOT DATE = 2/19/2015	DATE - 2/2/2015	REVISED -

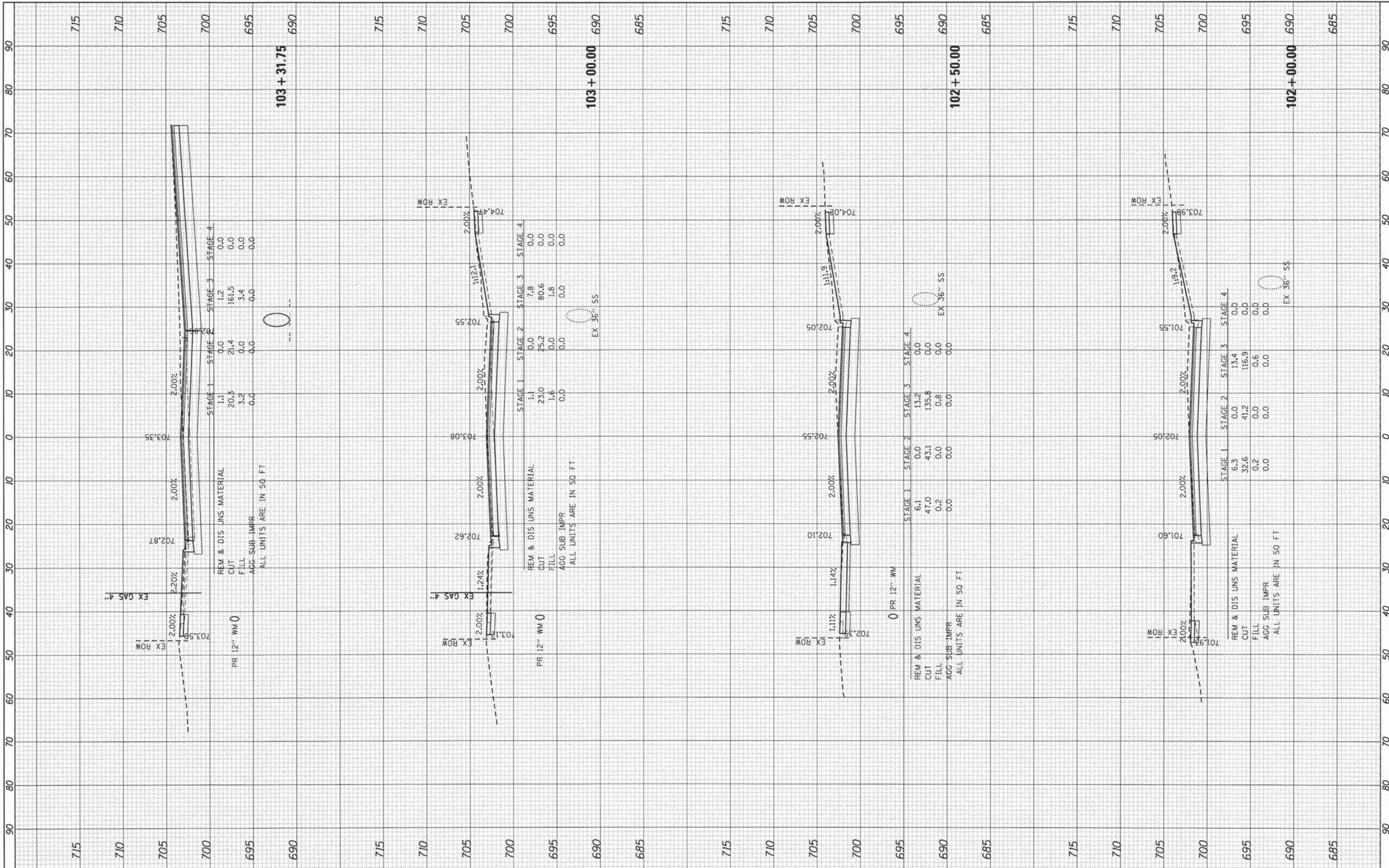
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED CROSS SECTIONS ILLINOIS ROUTE 19			
SCALE: 1"=10'	SHEET 16 OF 17 SHEETS	STA. 69+50.00	TO STA. 70+00.00

F.A.U. RTE. 1321	SECTION 11-00048-00-SP	COUNTY DUPAGE	TOTAL SHEETS 277	SHEET NO. 253
CONTRACT NO. 63872				
[ILLINOIS] FED. AID PROJECT				

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

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



HRGreen.com
#184-001322

USER NAME = jhorwit
FILE NAME = 023_XSWD-SOUTH-SHEET.dgn
PLOT SCALE = 1"=18'
PLOT DATE = 2/19/2015

DESIGNED - JRM
DRAWN - JPA
CHECKED - DTH
DATE - 2/2/2015

REVISED -
REVISED -
REVISED -
REVISED -

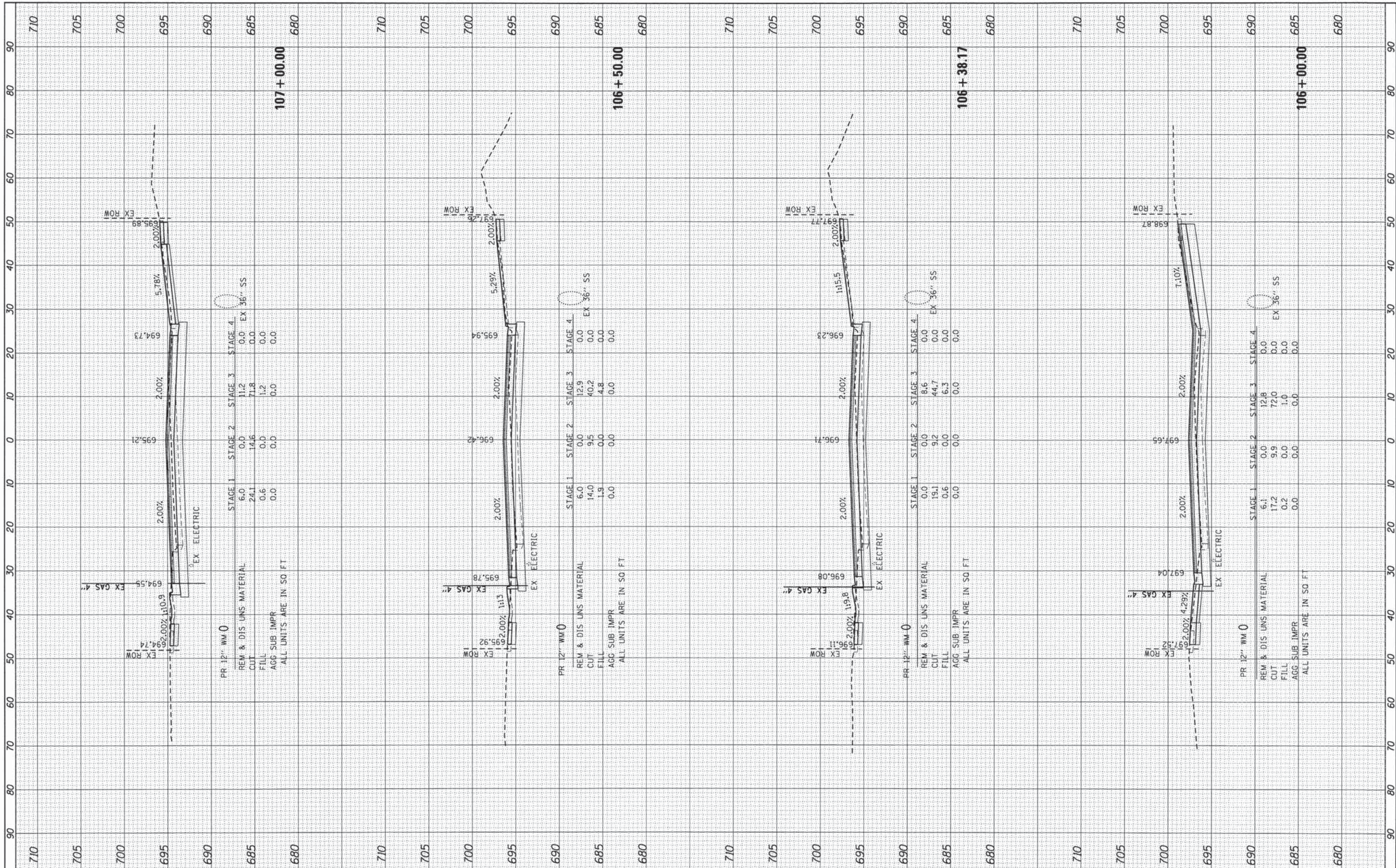
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
C.H. 28 (WOOD DALE ROAD)
SCALE: 1"=10' SHEET 1 OF 17 SHEETS STA. 102+00.00 TO STA. 103+31.75

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	11-00048-00-SP	DUPAGE	277	255
CONTRACT NO. 63872				
ILLINOIS FED. AID PROJECT				

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

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



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 #184-001322

USER NAME = jharwit	DESIGNED - JRM	REVISED -
FILE NAME = 023.XSWD-SOUTH-SHEET.dgn	DRAWN - JPA	REVISED -
PLOT SCALE = 1"=10'	CHECKED - DTH	REVISED -
PLOT DATE = 2/19/2015	DATE - 2/2/2015	REVISED -

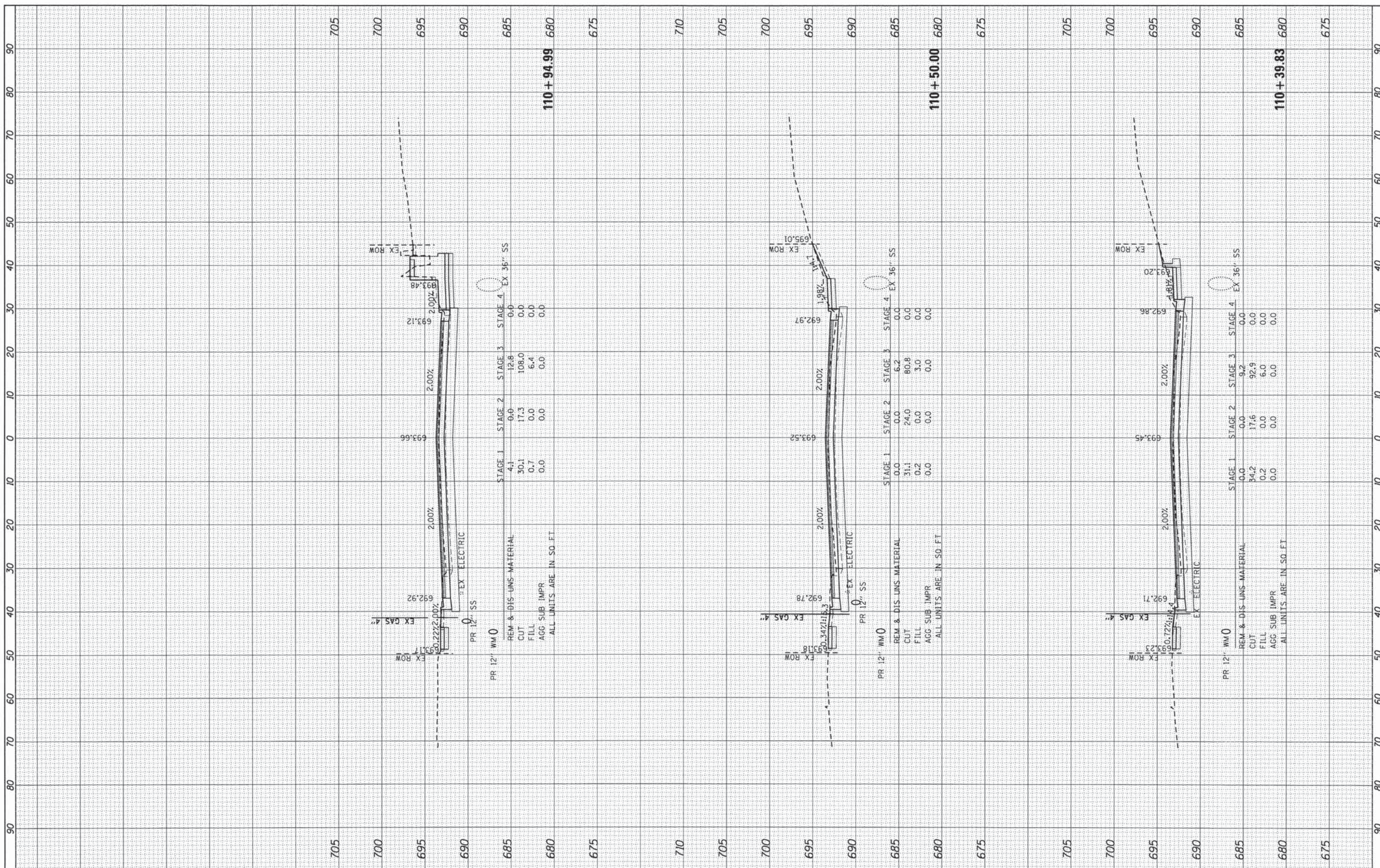
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PROPOSED CROSS SECTIONS	
C.H. 28 (WOOD DALE ROAD)	
SCALE: 1"=10'	SHEET 4 OF 17 SHEETS
STA. 106+00.00 TO STA. 107+00.00	

F.A.U. RTE. 1321	SECTION 11-00048-00-SP	COUNTY DUPAGE	TOTAL SHEETS 277	SHEET NO. 258
CONTRACT NO. 63872				
[ILLINOIS] FED. AID PROJECT				

ORIGINAL SURVEY NO. _____
 SURVEY PLOTTED _____
 TEMPLATE _____
 NOTE BOOK _____
 AREAS CHECKED _____

BY: _____ DATE: _____



HRGreen.com
 Illinois Professional Design Firm
 # 184-001322

USER NAME = jhorvath
 FILE NAME = 023_XSWD-SOUTH-SHEET.dgn
 PLOT SCALE = 1"=10'
 PLOT DATE = 2/19/2015

DESIGNED - JRM
 DRAWN - JPA
 CHECKED - DTH
 DATE - 2/2/2015

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

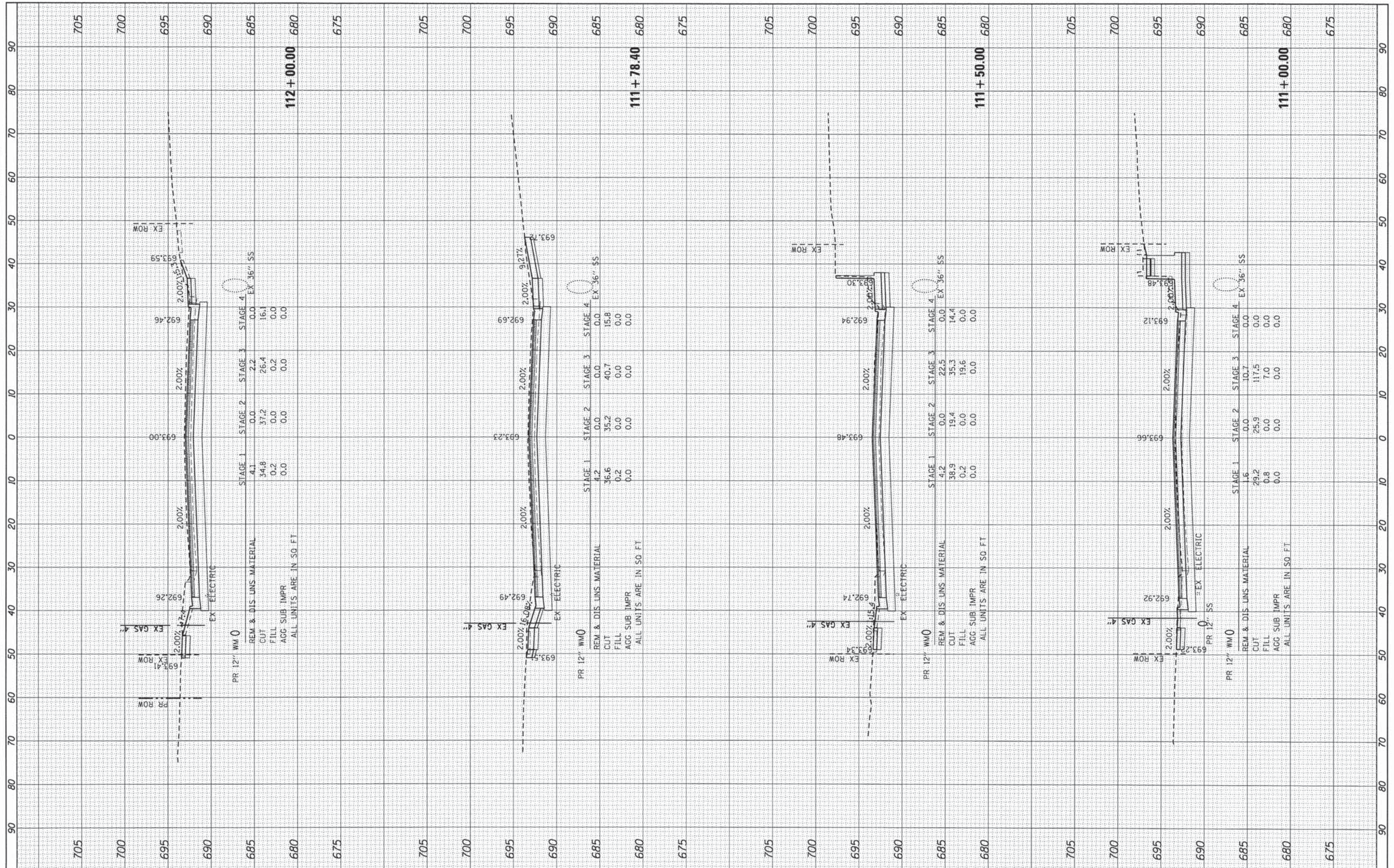
**PROPOSED CROSS SECTIONS
 C.H. 28 (WOOD DALE ROAD)**

SCALE: 1"=10' SHEET 8 OF 17 SHEETS STA. 110+39.83 TO STA. 110+94.99

F.A.U. RTE. 1321	SECTION 11-00048-00-SP	COUNTY DUPAGE	TOTAL SHEETS 277	SHEET NO. 262
CONTRACT NO. 63872				
ILLINOIS FED. AID PROJECT				

DATE	BY
FINN SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

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



USER NAME = jhorwit	DESIGNED - JRM	REVISED -
FILE NAME = 823_XSWD-SOUTH-SHEET.dgn	DRAWN - JPA	REVISED -
PLOT SCALE = 1"=10'	CHECKED - DTH	REVISED -
PLOT DATE = 2/19/2015	DATE - 2/2/2015	REVISED -

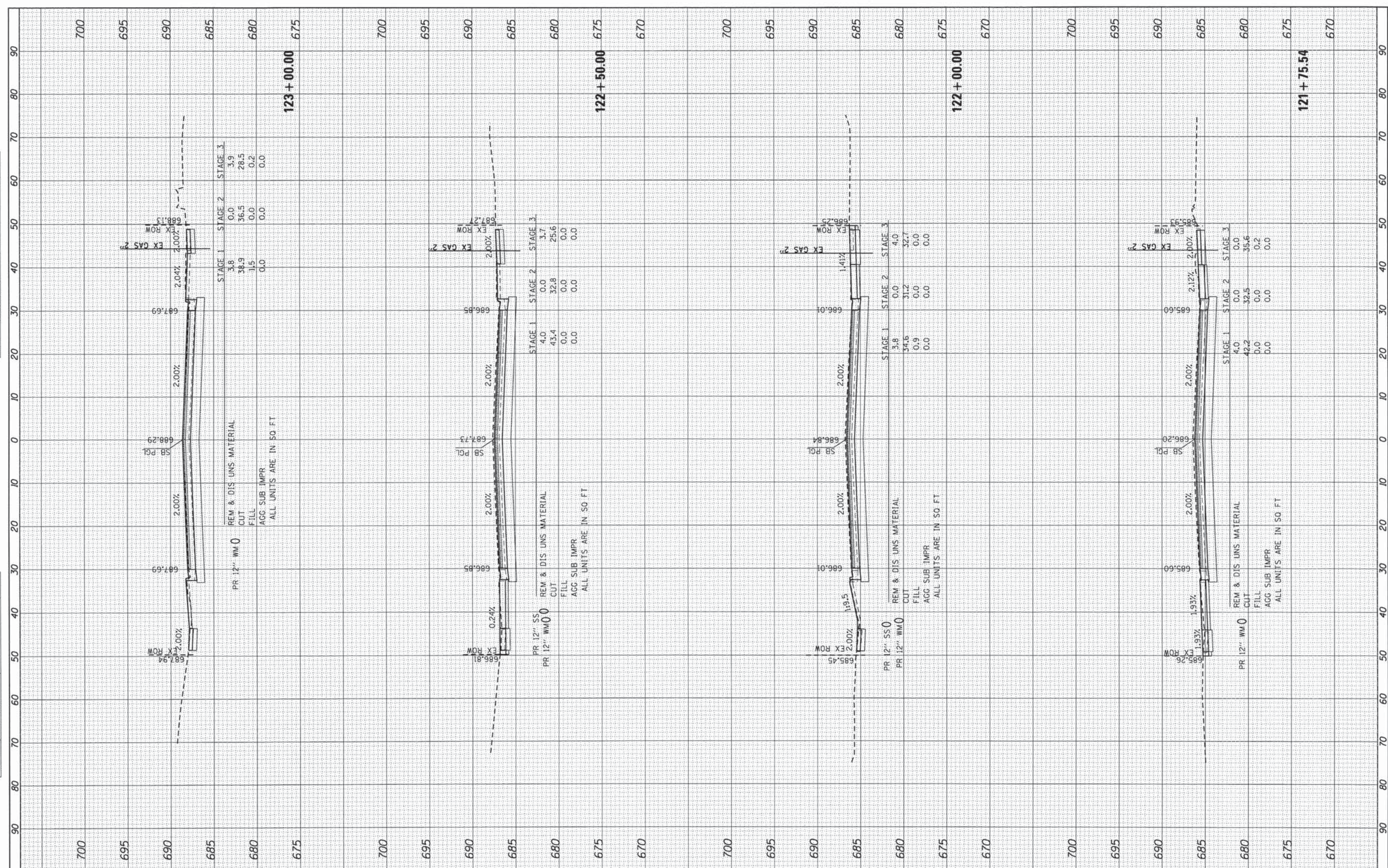
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS	
C.H. 28 (WOOD DALE ROAD)	
SCALE: 1"=10'	SHEET 9 OF 17 SHEETS STA. 111+00.00 TO STA. 112+00.00

F.A.U. RTE. 1321	SECTION 11-00048-00-SP	COUNTY DUPAGE	TOTAL SHEETS 277	SHEET NO. 263
CONTRACT NO. 63872				ILLINOIS FED. AID PROJECT

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

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



HRGreen.com
 1321 11-00048-00-SP
 #184-001332

USER NAME = jhorwit
 FILE NAME = 023.XSWD-NORTH-SHEET.dgn
 PLOT SCALE = 1"=10'
 PLOT DATE = 2/19/2015

DESIGNED - JRM
 DRAWN - JPA
 CHECKED - DTH
 DATE - 2/2/2015

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

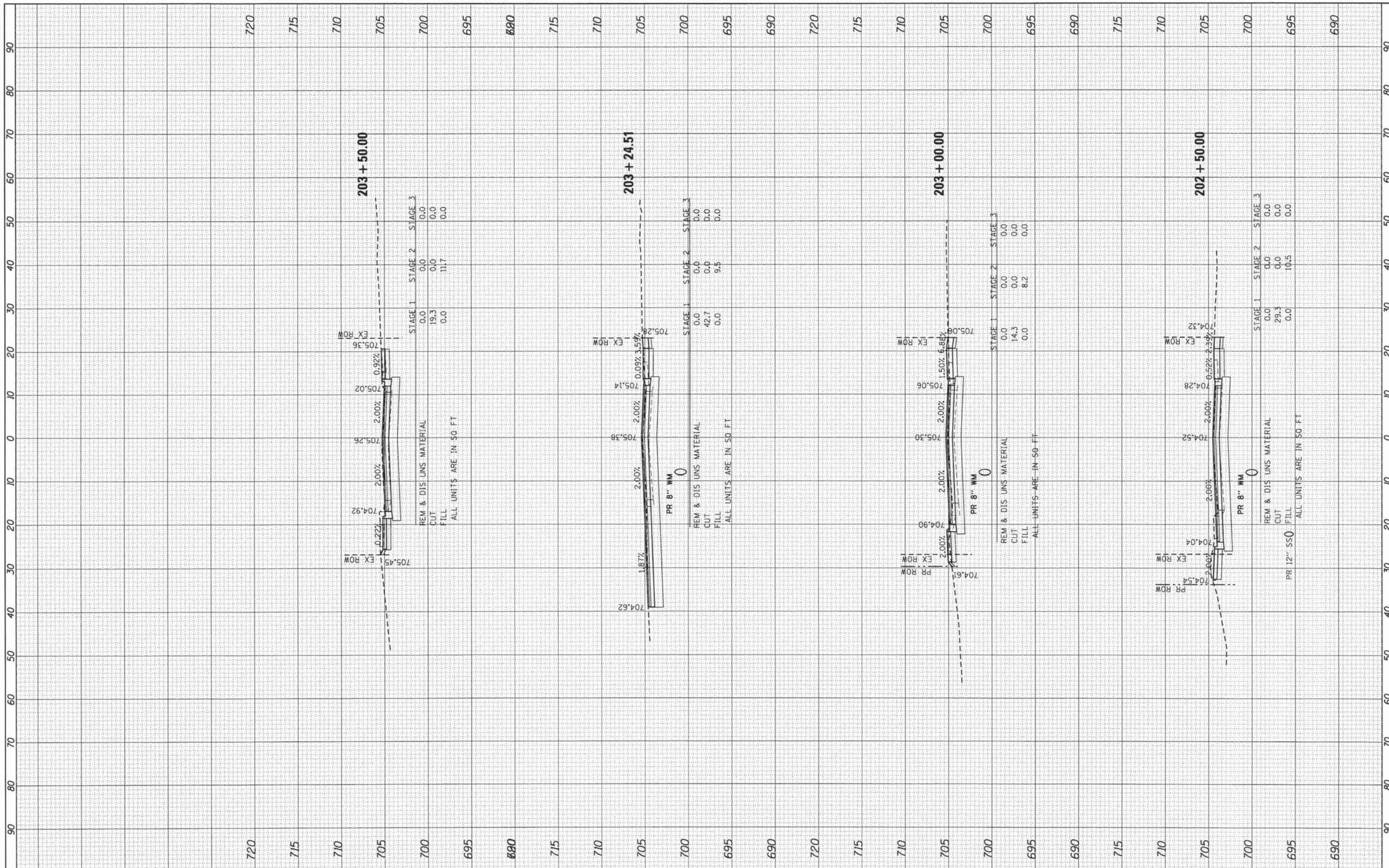
SCALE: 1"=10'
 SHEET 17 OF 17 SHEETS
 STA. 121+75.54 TO STA. 123+00.00

PROPOSED CROSS SECTIONS
 C.H. 28 (WOOD DALE ROAD)

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	11-00048-00-SP	DUPAGE	277	271
CONTRACT NO. 63872			ILLINOIS FED. AID PROJECT	

FINL	SURVEY	DATE
SURVEY	PLOTTED	BY
NOTE BOOK	TEMPLATE	
AREAS	CHECKED	
NO.		

ORIGINAL	DATE
SURVEY	BY
NOTE BOOK	
AREAS	
NO.	




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 Illinois Professional Design Firm
 #184-001322

USER NAME = jhorwit	DESIGNED - JRM	REVISED -
FILE NAME = 023_XSDIV-SHEET.dgn	DRAWN - JPA	REVISED -
PLOT SCALE = 1"=5'	CHECKED - DTH	REVISED -
PLOT DATE = 2/19/2015	DATE - 2/2/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS			
DIVISION STREET			
SCALE: 1"=5'	SHEET 2 OF 3 SHEETS	STA. 202+50.00 TO STA. 203+50.00	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	11-00048-00-SP	DUPAGE	277	273
CONTRACT NO. 63872				
ILLINOIS FED. AID PROJECT				

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

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



USER NAME = jharwit	DESIGNED - JRM	REVISED -
FILE NAME = 823_X501V-SHEET.dgn	DRAWN - JPA	REVISED -
PLOT SCALE = 1"=5'	CHECKED - DTH	REVISED -
PLOT DATE = 2/19/2015	DATE - 2/2/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

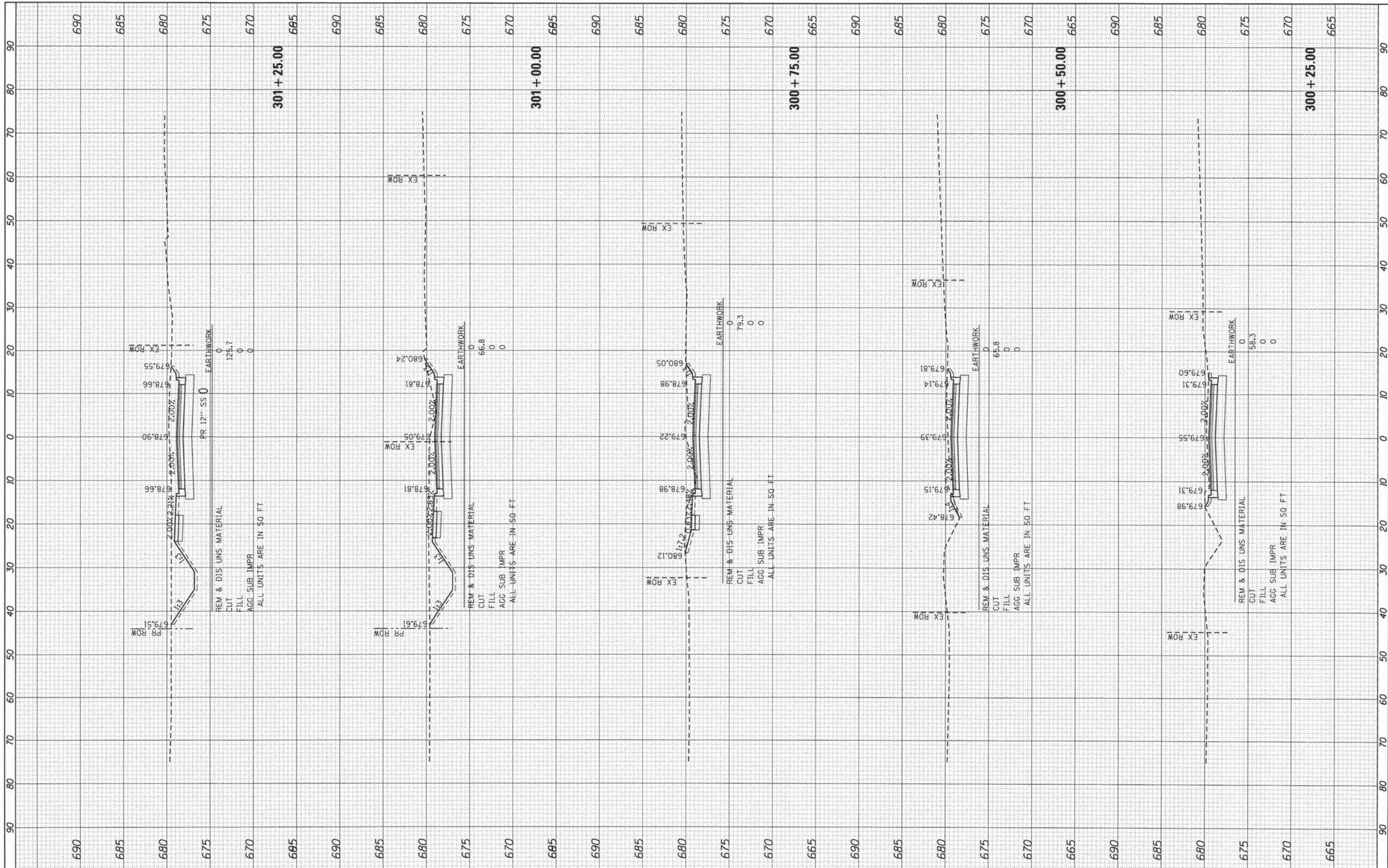
**PROPOSED CROSS SECTIONS
DIVISION STREET**

SCALE: 1"=5' SHEET 3 OF 3 SHEETS STA. 204+00.00 TO STA. 204+00.00

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	11-00048-00-SP	DUPAGE	277	274
CONTRACT NO. 63872			ILLINOIS FED. AID PROJECT	

DATE	BY
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	BY
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



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 Illinois Professional Design Firm
 #184-01322

USER NAME = jhorwit	DESIGNED - JRM	REVISED -
FILE NAME = 023.XSCOM-SHEET.dgn	DRAWN - JPA	REVISED -
PLDT SCALE = 1"=5'	CHECKED - DTH	REVISED -
PLDT DATE = 2/19/2015	DATE - 2/2/2015	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

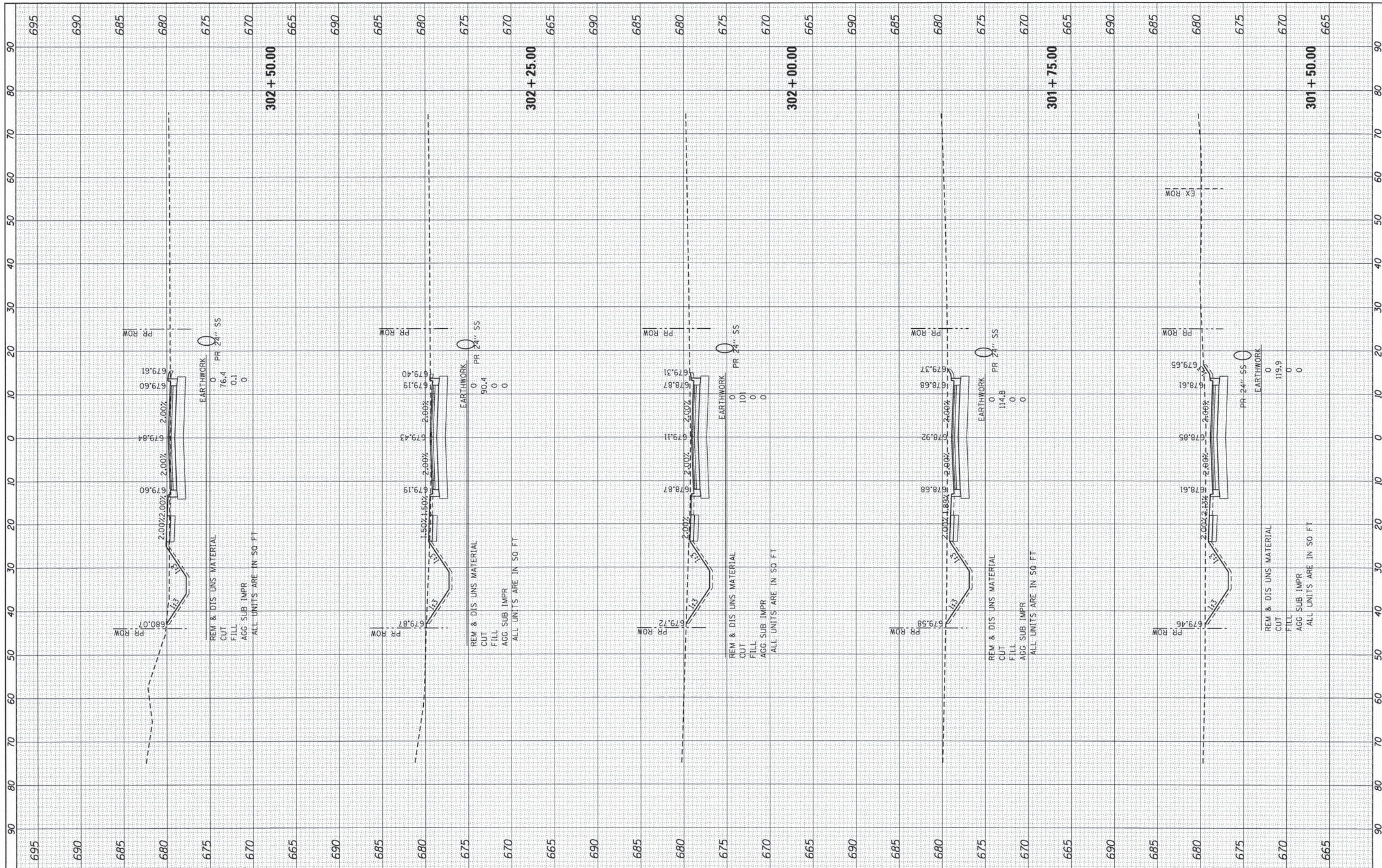
PROPOSED CROSS SECTIONS
 COMMERCIAL STREET

SCALE: 1"=5' SHEET 1 OF 3 SHEETS STA. 300+25.00 TO STA. 301+25.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	11-00048-00-SP	DUPAGE	277	275
CONTRACT NO. 63872				
ILLINOIS FED. AID PROJECT				

DATE	BY
SURVEYED	PLOTTED
NO. _____	DATE _____
AREAS CHECKED	AREAS CHECKED

DATE	BY
SURVEYED	PLOTTED
NO. _____	DATE _____
AREAS CHECKED	AREAS CHECKED



USER NAME = jhorwitz	DESIGNED - JRM	REVISED -
FILE NAME = 023_XSCM-SHEET.dgn	DRAWN - JPA	REVISED -
PLOT SCALE = 1"=5'	CHECKED - DTH	REVISED -
PLOT DATE = 2/19/2015	DATE - 2/2/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED CROSS SECTIONS COMMERCIAL STREET		
SCALE: 1"=5'	SHEET 2 OF 3 SHEETS	STA. 301+50.00 TO STA. 302+50.00

F.A.U. RTE. 1321	SECTION 11-00048-00-SP	COUNTY DUPAGE	TOTAL SHEETS 277	SHEET NO. 276
CONTRACT NO. 63872				
ILLINOIS FED. AID PROJECT				

