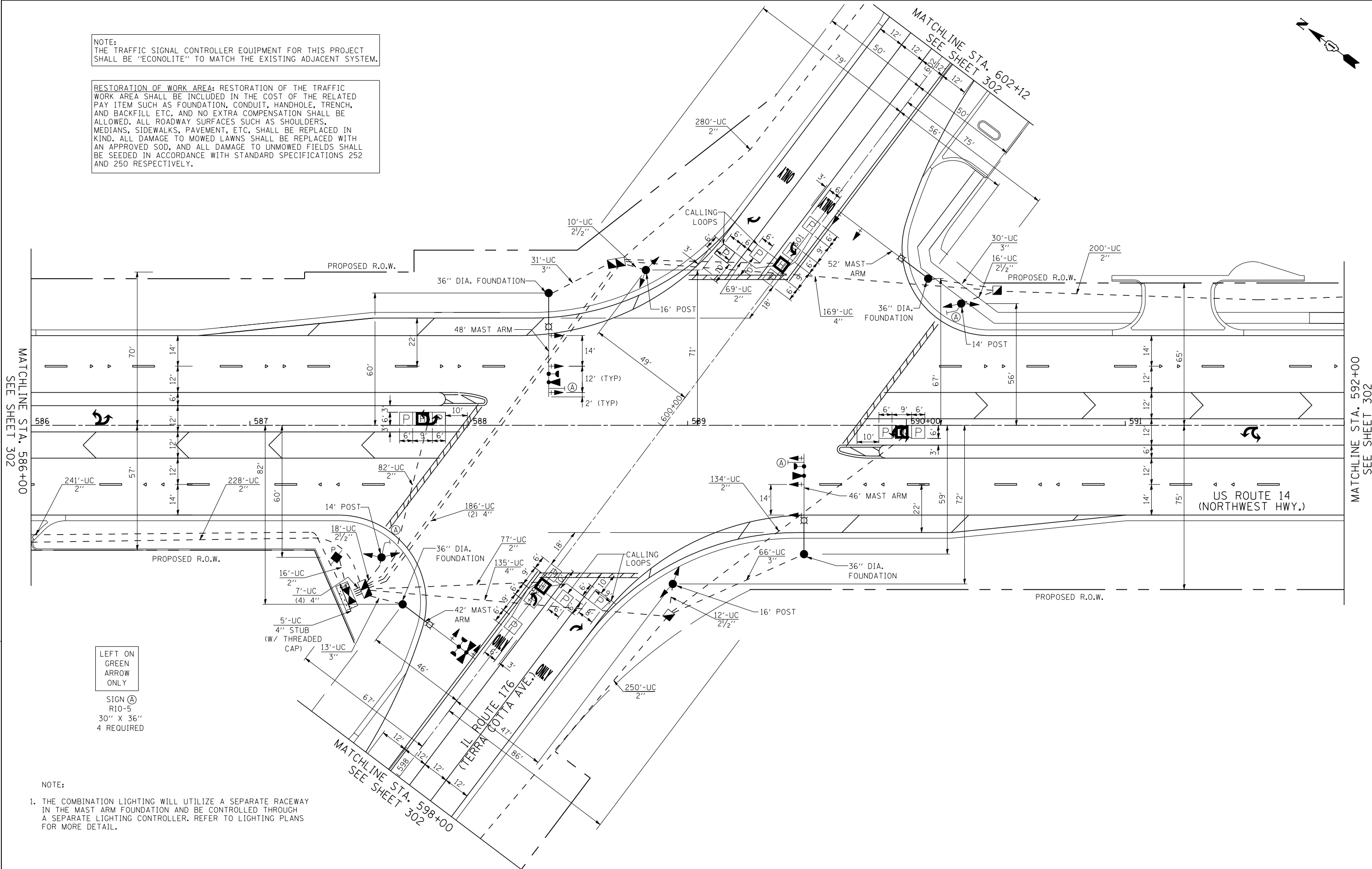
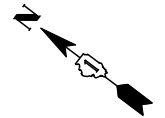


NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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



MATCHLINE STA. 586+00  
SEE SHEET 302

MATCHLINE STA. 592+00  
SEE SHEET 302

LEFT ON GREEN  
ARROW  
ONLY

SIGN (A)  
R10-5  
30" X 36"  
4 REQUIRED

- NOTE:
1. THE COMBINATION LIGHTING WILL UTILIZE A SEPARATE RACEWAY IN THE MAST ARM FOUNDATION AND BE CONTROLLED THROUGH A SEPARATE LIGHTING CONTROLLER. REFER TO LIGHTING PLANS FOR MORE DETAIL.

**EJM ENGINEERING, INC.**  
411 South Wells Street Suite 1000  
Chicago, Illinois 60607



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USER NAME = rswanson  
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PLOT DATE = 10/8/2013

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CHECKED - RS  
DATE - 10/15/2013

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN  
US RTE. 14 AND IL RTE. 176**

SCALE: 20:1 SHEET NO. 1 OF 2 SHEETS STA. TO STA.

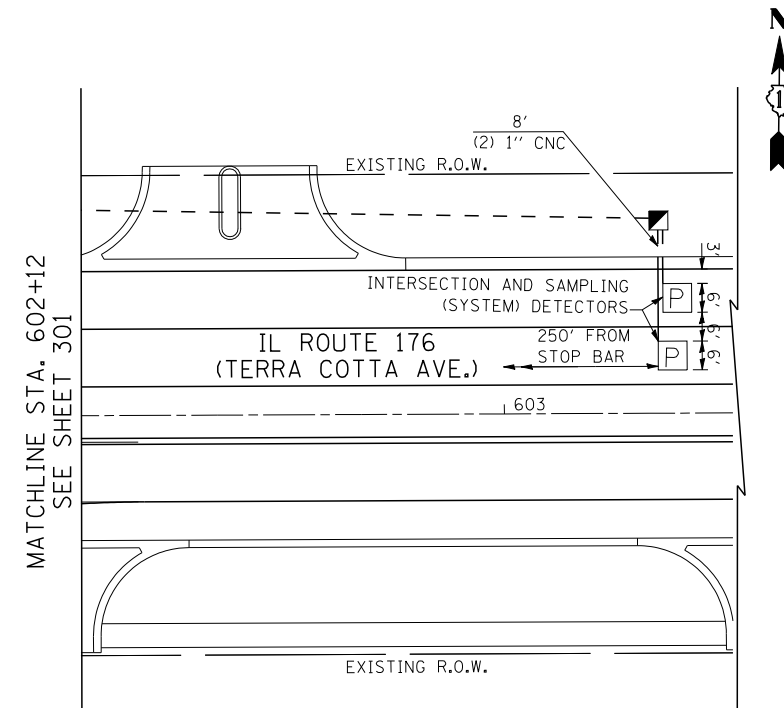
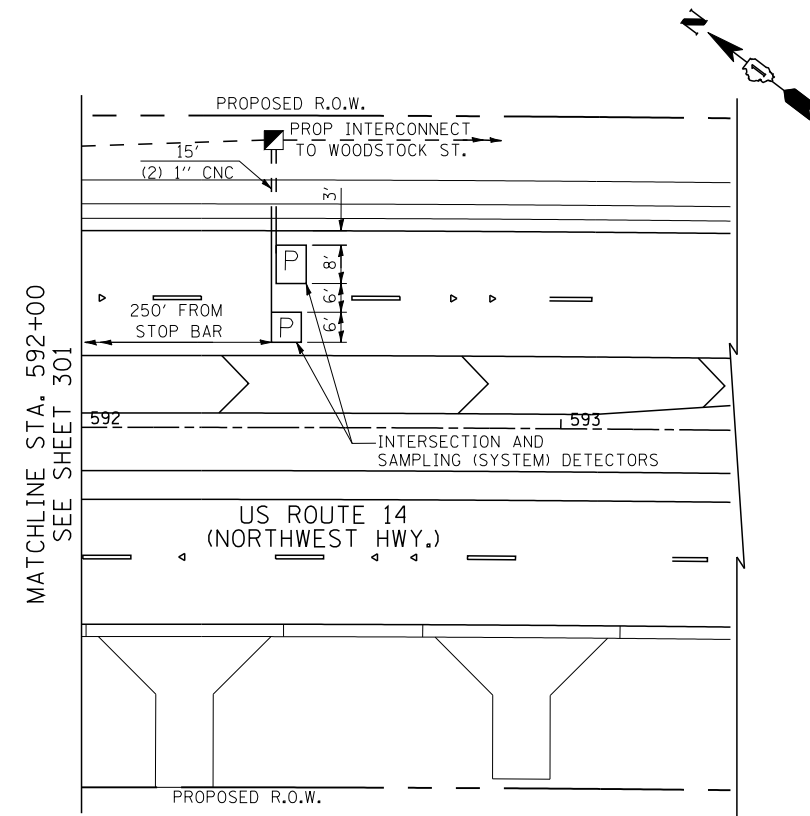
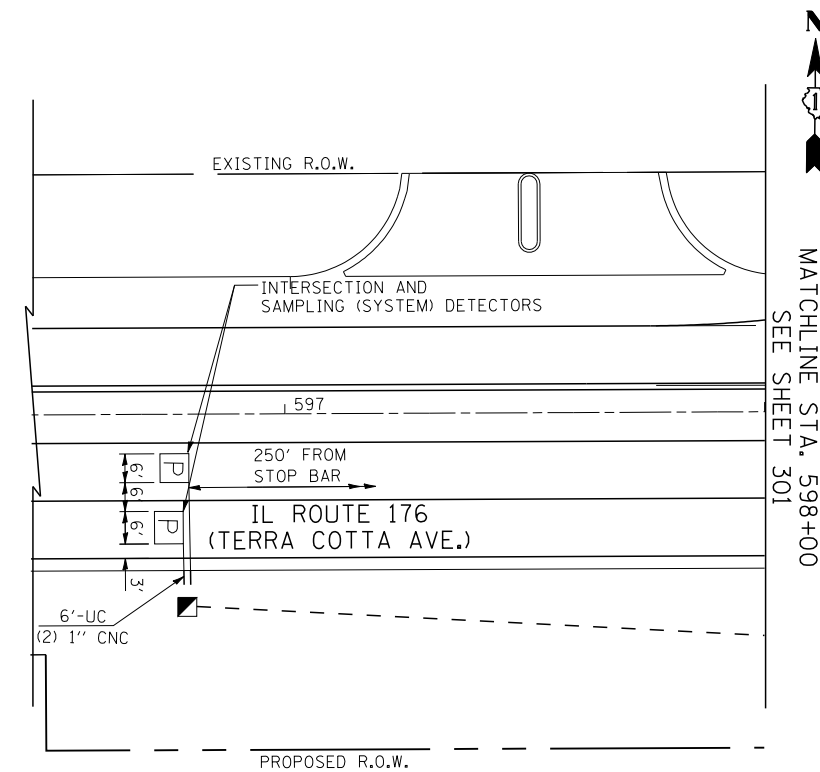
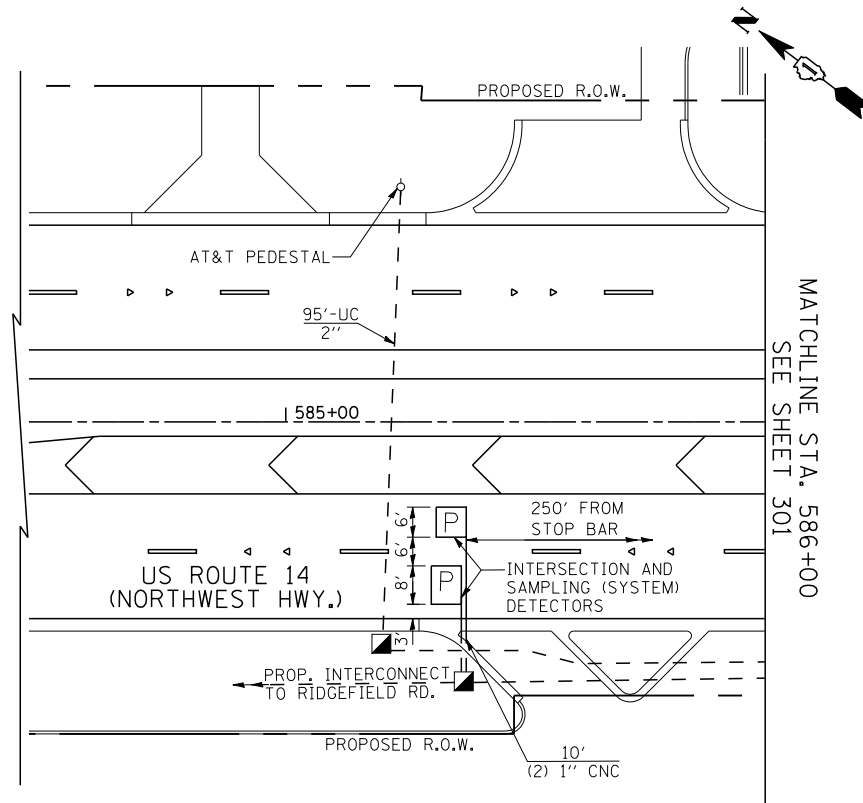
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	27R-3	MCHENRY	431	301
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62517	

**EJM ENGINEERING, INC.**  
 411 South Wells Street Suite 1000  
 Chicago, Illinois 60607



NOTE:  
 THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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



FILE NAME =  
 ...\\D162517-SHT-TS03A.dgn

USER NAME = rswanson  
 PLOT SCALE = 20:1  
 PLOT DATE = 10/8/2013

DESIGNED - GR  
 DRAWN - GR  
 CHECKED - RS  
 DATE - 10/15/2013

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

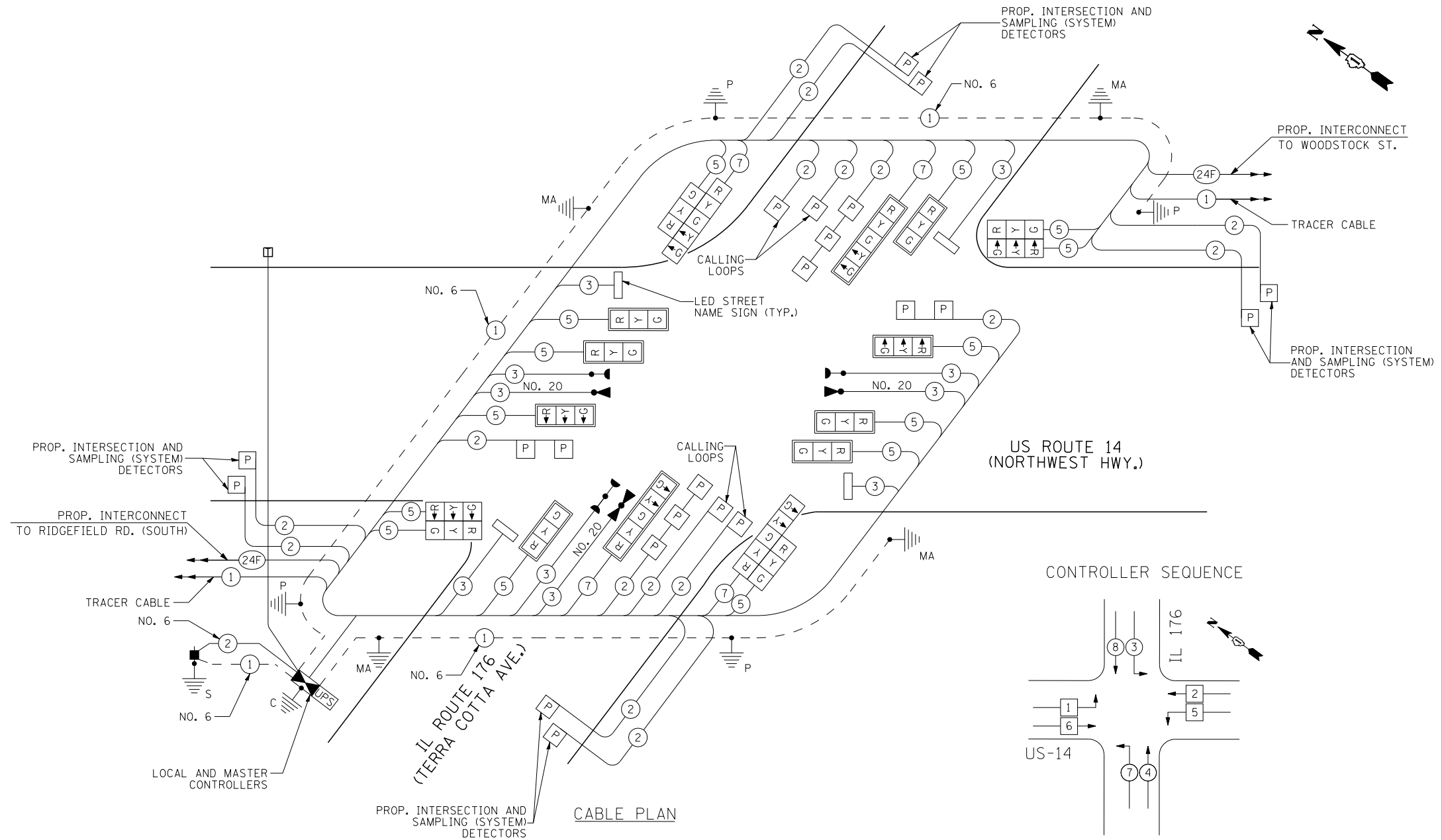
**TRAFFIC SIGNAL INSTALLATION PLAN  
 US RTE. 14 AND IL RTE. 176**

SCALE: 20:1 SHEET NO. 2 OF 2 SHEETS STA. TO STA.

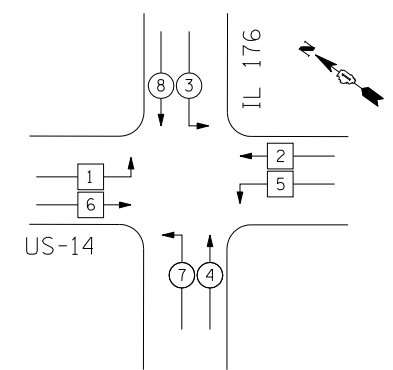
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	27R-3	MCHENRY	431	302
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62517	

SCHEDULE OF QUANTITIES

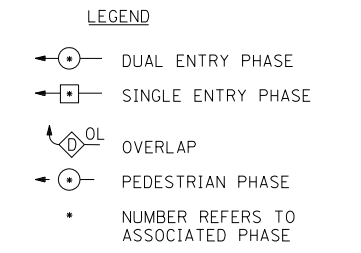
ITEM	UNIT	QTY
# LED INTERNALLY ILLUMINATED STREET NAME SIGN	EA	4
SIGN PANEL - TYPE 1	SF	30
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FT	1660
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FT	45
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FT	140
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FT	680
HANDHOLE	EA	7
HEAVY-DUTY HANDHOLE	EA	4
DOUBLE HANDHOLE	EA	2
FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EA	1
TRANSCEIVER - FIBER OPTIC	EA	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FT	752
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FT	2609
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FT	2318
ELECTRIC CABLE IN CONDUIT, LEAD-IN NO. 14 1 PAIR	FT	4963
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2/C	FT	39
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EA	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EA	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 42 FT.	EA	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 46 FT.	EA	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 48 FT.	EA	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 52 FT.	EA	1
CONCRETE FOUNDATION, TYPE A	FT	16
CONCRETE FOUNDATION, TYPE C	FT	4
CONCRETE FOUNDATION, TYPE E 36 INCH DIAMETER	FT	54
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EA	8
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EA	2
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EA	2
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EA	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINIUM	EA	10
INDUCTIVE LOOP DETECTOR	EA	16
# LIGHT DETECTOR	EA	3
# LIGHT DETECTOR AMPLIFIER	EA	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EA	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EA	1
REMOVE EXISTING HANDHOLE	EA	10
REMOVE EXISTING CONCRETE FOUNDATION	EA	6
PREFORMED DETECTOR LOOP	FT	769
TEMPORARY TRAFFIC SIGNAL TIMING	EA	1
SERVICE INSTALLATION - POLE MOUNTED	EA	1
MASTER CONTROLLER (SPECIAL)	EA	1
UNINTERRUPTIBLE POWER SUPPLY SPECIAL	EA	1
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FT	924
# ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3/C, TWISTED, SHIELDED	FT	752
# 100% LOCAL AGENCY COST		



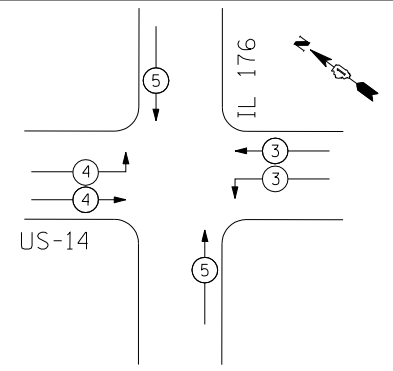
CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	←	→	↕

NOTE: THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

NOTE: THE EMERGENCY PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE "OPTICOM" BRAND TO MATCH THE EXISTING CITY SYSTEM.

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

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

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

TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	18	135	17	0.50	153.00
(YELLOW)	18	135	25	0.25	112.50
(GREEN)	18	135	15	0.25	67.50
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	--	90	25	1.00	-----
CONTROLLER	1	100	100	1.00	100.00
FLASHER	--	25	0.50	-----	-----
LED SIGN (6'+)	4		120	0.50	240.00

ENERGY COSTS TO: TOTAL = 682.6

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS/DISTRICT 1  
SCHAUMBURG, ILLINOIS 60196

ENERGY SUPPLY: CONTACT: MIKE WIDHALM  
PHONE: (815) 263-5624  
COMPANY: COMED

**EJM ENGINEERING, INC.**  
 411 South Wells Street Suite 1000  
 Chicago, Illinois 60607

FILE NAME = ...\\0162517-SHT-TS038.dgn	USER NAME = rswanson	DESIGNED - GR	REVISED -
		DRAWN - GR	REVISED -
		PLOT SCALE = 20:1	CHECKED - RS
		PLOT DATE = 6/6/2014	DATE - 10/15/2013

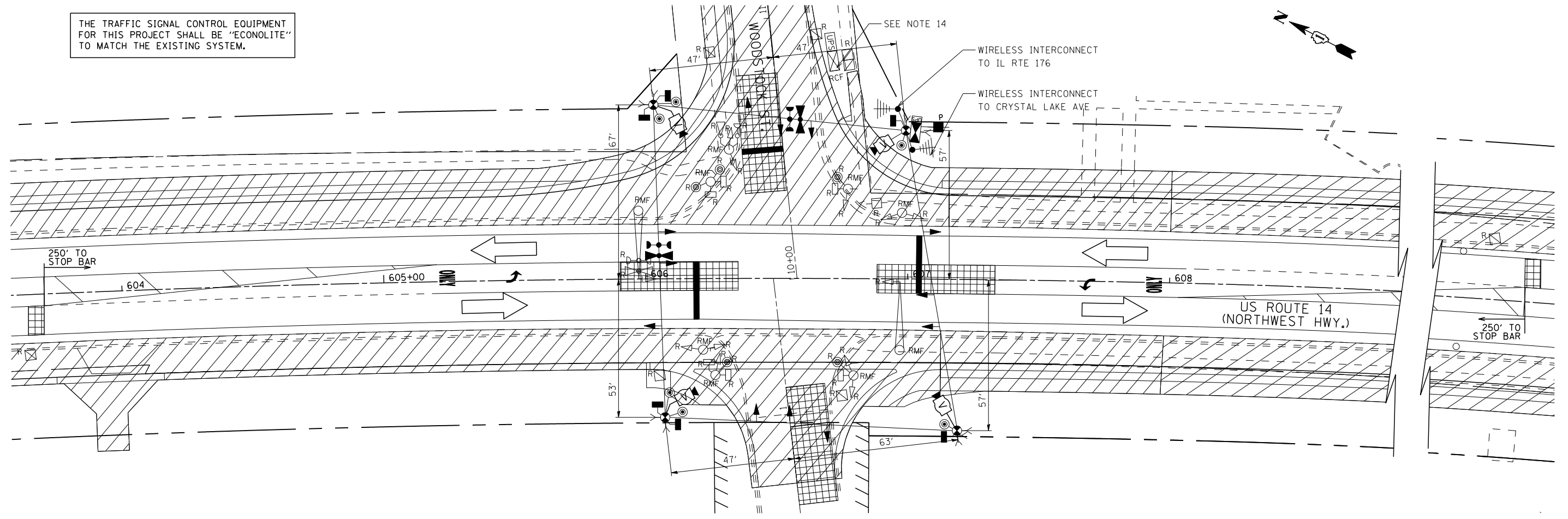
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
US RTE. 14 AND IL RTE. 176

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	27R-3	MCHENRY	431	303
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62517	

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



NOTES FOR TEMPORARY TRAFFIC SIGNALS STAGE 1

- ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
- ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR ALL CONSTRUCTION STAGES. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
- ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
- ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
- THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING TO MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF ACTIVATION, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
- UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL. TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
- TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
- DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE DISTRICT 1 SPECIFICATIONS. THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.

- WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.
- THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT OF WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

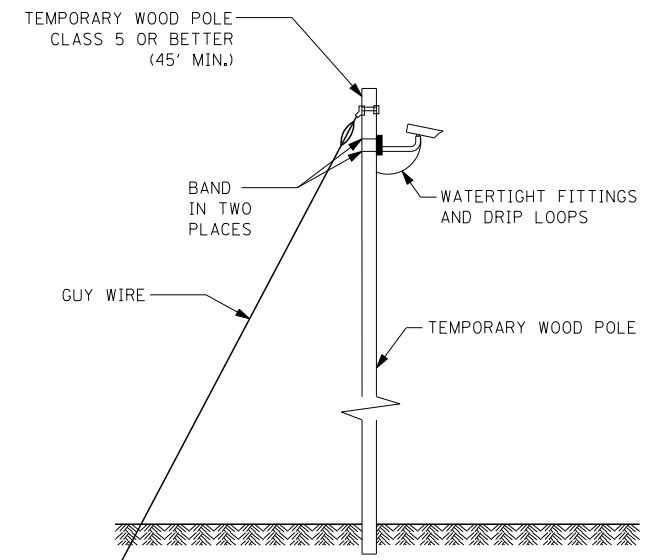
4	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
4	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION
2	EACH	TRAFFIC SIGNAL BACKPLATE
2	EACH	ALUMINUM MAST ARM AND POLE
7	EACH	TRAFFIC SIGNAL POST
2	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
2	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
5	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	SERVICE INSTALLATION
1	EACH	RADIO ANTENNA
1	EACH	MASTER CONTROLLER

- THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE SIGNAL SPECIFICATIONS.

AGENCY: CITY OF CRYSTAL LAKE

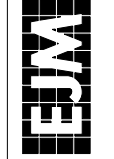
3	EACH	LIGHT DETECTOR (SEE NOTE 15)
1	EACH	LIGHT DETECTOR AMPLIFIER

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPROGRAMMING THE VIDEO DETECTORS TO THE VIDEO DETECTION AREAS FOR EACH CONSTRUCTION STAGE AS INDICATED ON THE TEMPORARY SIGNAL PLANS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE TEMPORARY TRAFFIC SIGNAL INSTALLATION PAY ITEM.
- THE CONTRACTOR SHALL REMOVE AND STORE THE EXISTING CONTROLLER AND CABINET (COMPLETE) FOR RELOCATION TO THE PROPOSED LOCATION SHOWN ON THE TRAFFIC SIGNAL INSTALLATION PLAN. THE CONTRACTOR SHALL REPLACE IN KIND ANY EQUIPMENT DAMAGED BY THE CONTRACTOR, AT NO ADDITIONAL COST.
- THE EXISTING FAR OUT LIGHT DETECTOR MOUNTED ON A COMED POLE AT THE NORTHWEST CORNER OF WOODSTOCK ST AND RIDGE AVE (NOT SHOWN ON PLAN) SHALL BE REMOVED AND RETURNED TO THE CITY.



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

**EJM ENGINEERING, INC.**  
411 South Wells Street Suite 1000  
Chicago, Illinois 60607



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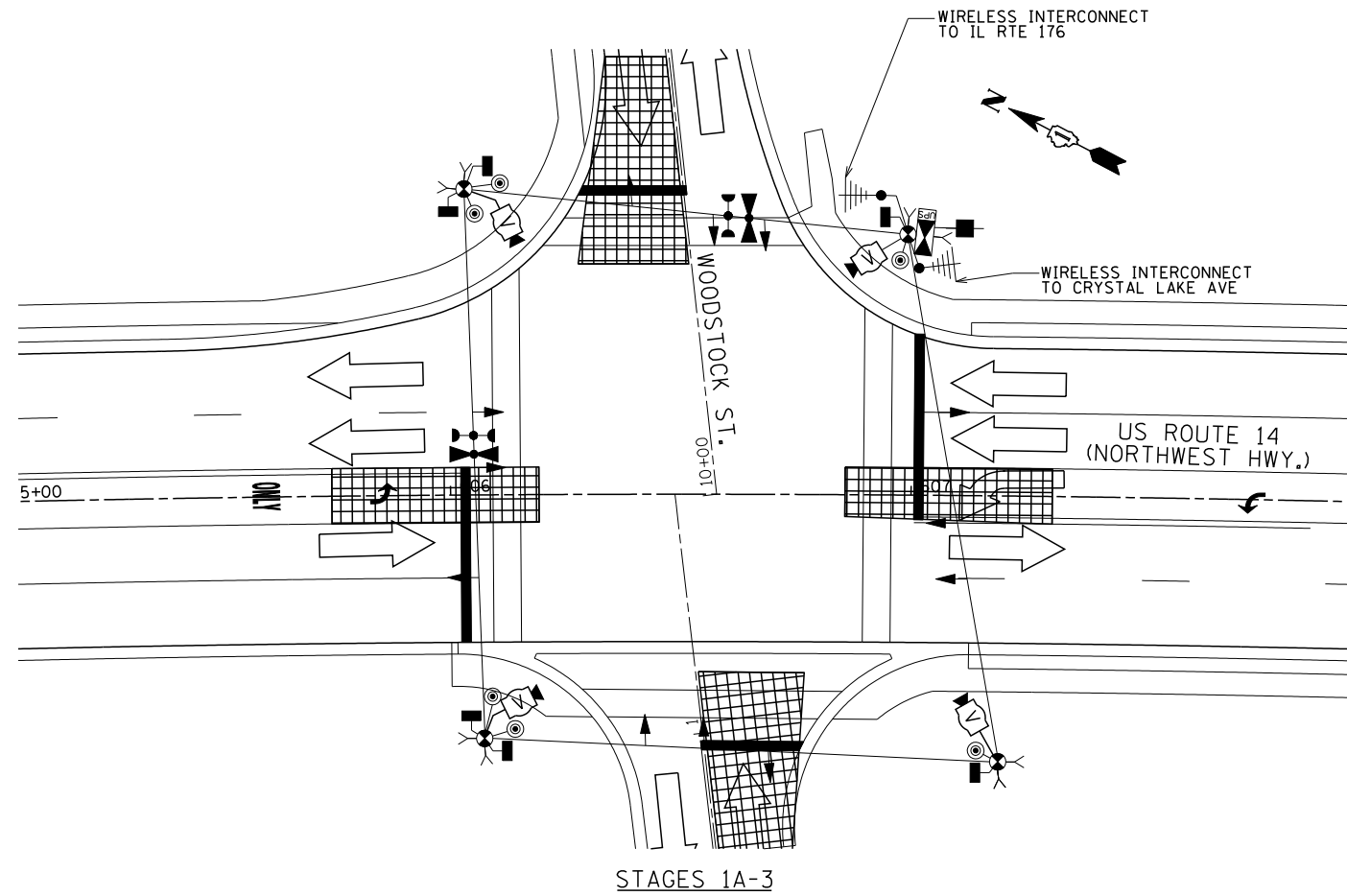
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN  
US RTE. 14 AND WOODSTOCK ST.**

SCALE: 20:1 SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	27R-3	MCHENRY	431	304
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62517	

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 411 South Wells Street Suite 1000  
 Chicago, Illinois 60607



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 PLOT DATE = 10/8/2013

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 DATE - 10/15/2013

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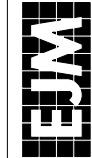
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN  
 US RTE. 14 AND WOODSTOCK ST.**

SCALE: 20:1 SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	27R-3	MCHENRY	431	305
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62517	

**EJM ENGINEERING, INC.**  
 411 South Wells Street Suite 1000  
 Chicago, Illinois 60607



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

TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW	8	12	12	0.10	9.6
PED. SIGNAL	6	90	25	1.00	150
CONTROLLER	1	100	100	1.00	100
VIDEO SYSTEM		150	150		150

ENERGY COSTS TO: TOTAL = 631.6

CITY OF CRYSTAL LAKE  
 100 WEST WOODSTOCK ST  
 CRYSTAL LAKE, ILLINOIS 60014

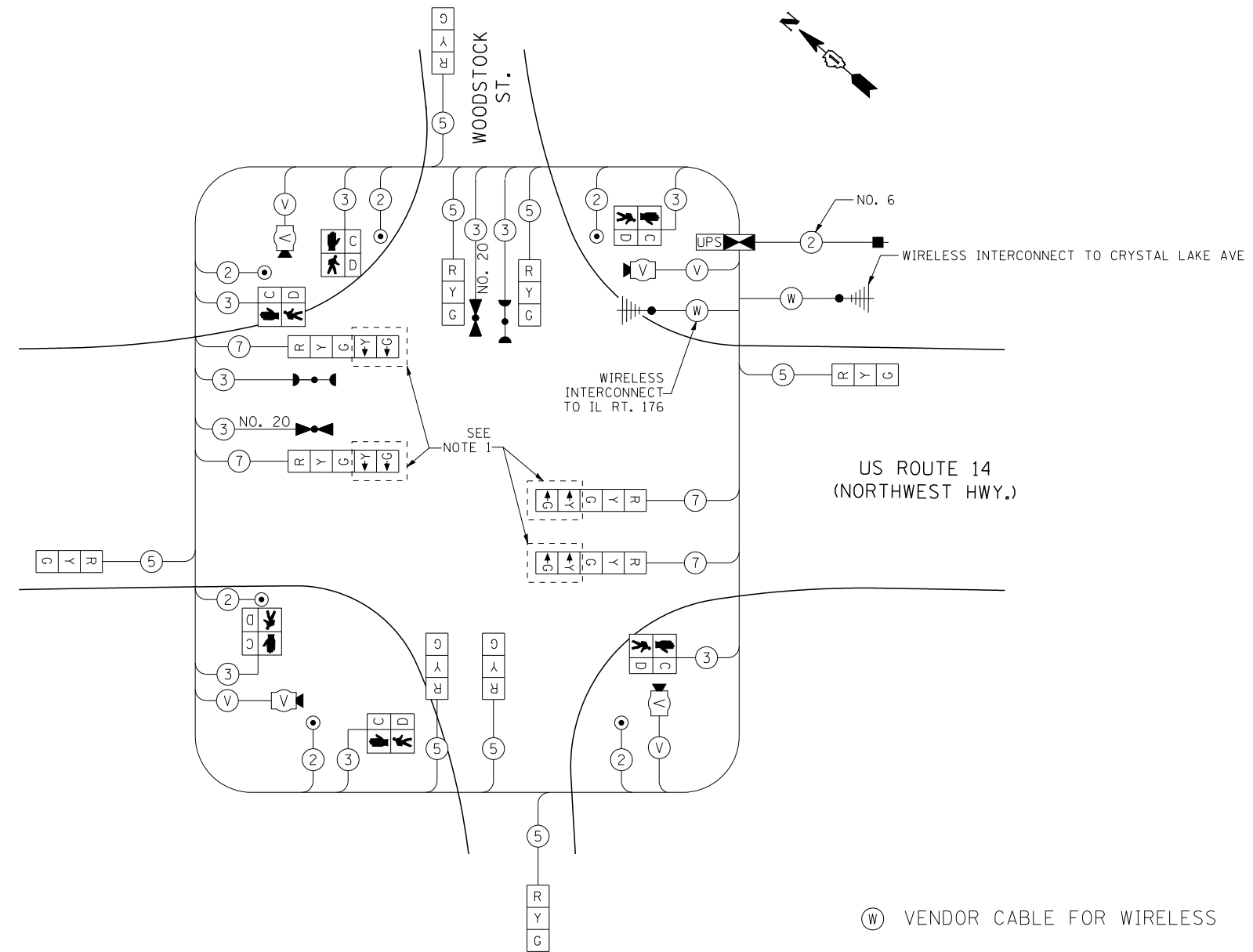
ENERGY SUPPLY: CONTACT: MIKE WIDHALM  
 PHONE: (815) 263-5624  
 COMPANY: COMED

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		DRAWN - AB	REVISED -
		CHECKED - BS	REVISED -
		DATE - 10/15/2013	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND  
 EMERGENCY VEHICLE PREEMPTION SEQUENCE  
 US RTE. 14 AND WOODSTOCK ST.**

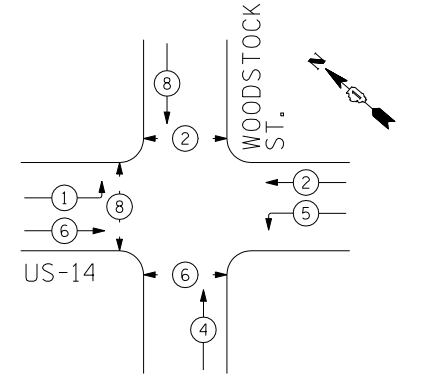
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	27R-3	MCHENRY	431	306
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62517	



TEMPORARY CABLE PLAN

(W) VENDOR CABLE FOR WIRELESS

TEMPORARY CONTROLLER SEQUENCE

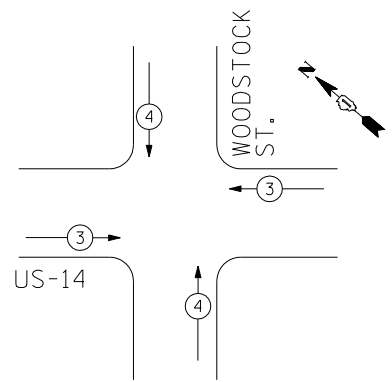


TEMPORARY PHASE DESIGNATION DIAGRAM

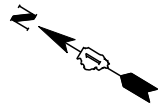
- LEGEND
- ◉ DUAL ENTRY PHASE
  - ◻ SINGLE ENTRY PHASE
  - ◊ OL OVERLAP
  - ◉ PEDESTRIAN PHASE
  - \* NUMBER REFERS TO ASSOCIATED PHASE

NOTES:  
 1. PHASES 1 AND 5 SHALL NOT BE ACTIVATED UNTIL LEFT-TURN LANES HAVE BEEN ESTABLISHED ON US RTE 14 DURING STAGE 1. THE CORRESPONDING LEFT-TURN ARROW SECTIONS SHALL BE BAGGED AND DEACTIVATED WHILE PHASES 1 AND 5 ARE DEACTIVATED.

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE

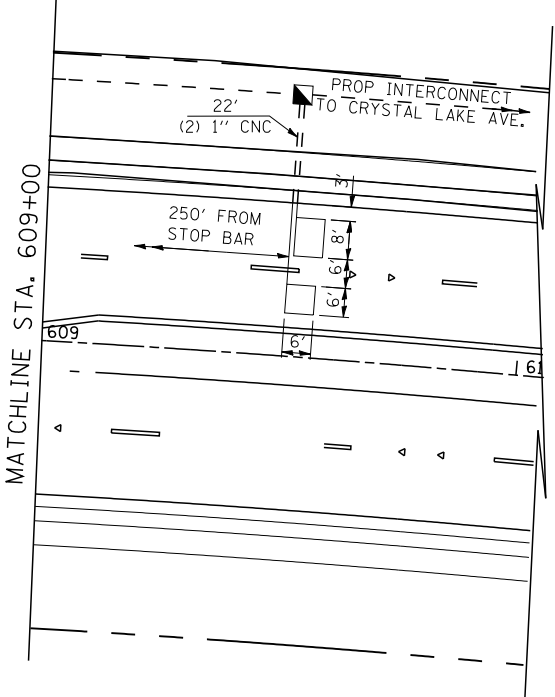
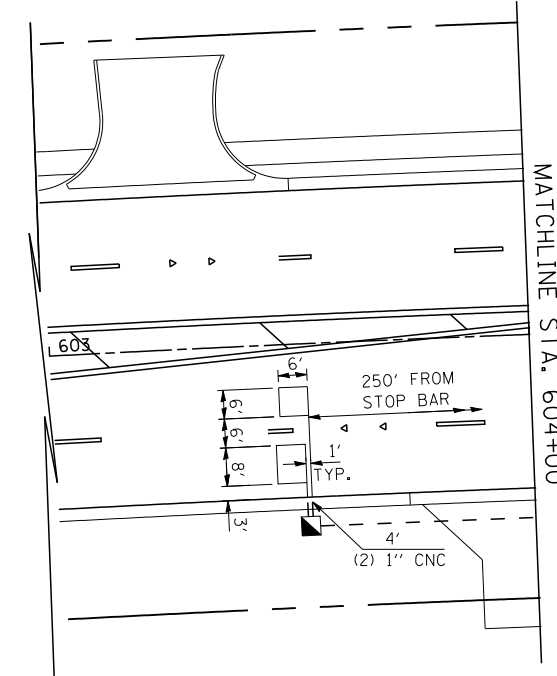
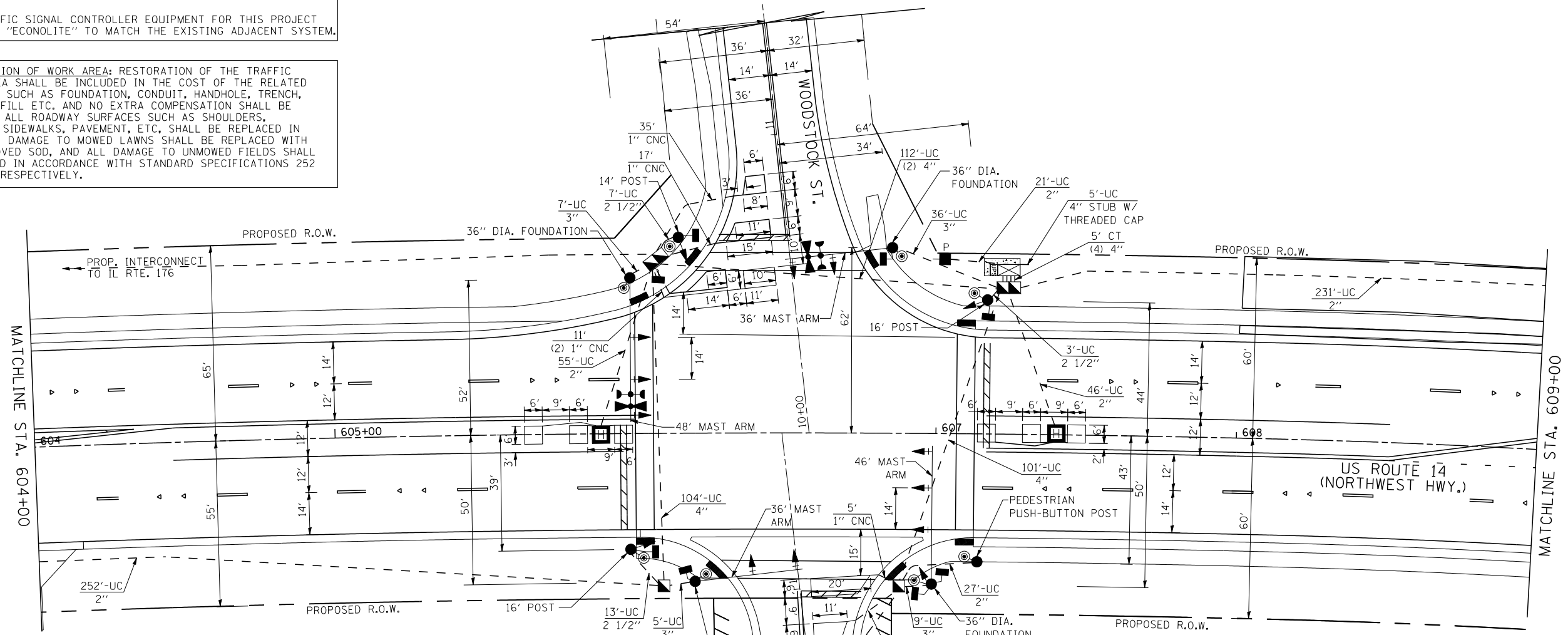


PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↔	↕



NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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



NOTE:  
THE EXISTING TRAFFIC SIGNAL CONTROLLER AND CABINET SHALL BE STORED BY THE CONTRACTOR WHILE THE TEMPORARY TRAFFIC SIGNAL IS IN OPERATION AND RELOCATED TO A NEW FOUNDATION AS SHOWN ON THE TRAFFIC SIGNAL INSTALLATION PLAN. THE CONTRACTOR SHALL REPLACE IN KIND ANY EQUIPMENT DAMAGED BY THE CONTRACTOR, AT NO ADDITIONAL COST.

**EJM ENGINEERING, INC.**  
411 South Wells Street Suite 1000  
Chicago, Illinois 60607



FILE NAME =  
...\\D162517-SHT-TS04.dgn

USER NAME = rswanson  
PLOT SCALE = 20:1  
PLOT DATE = 10/8/2013

DESIGNED - JW  
DRAWN - JW  
CHECKED - RS  
DATE - 10/15/2013

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

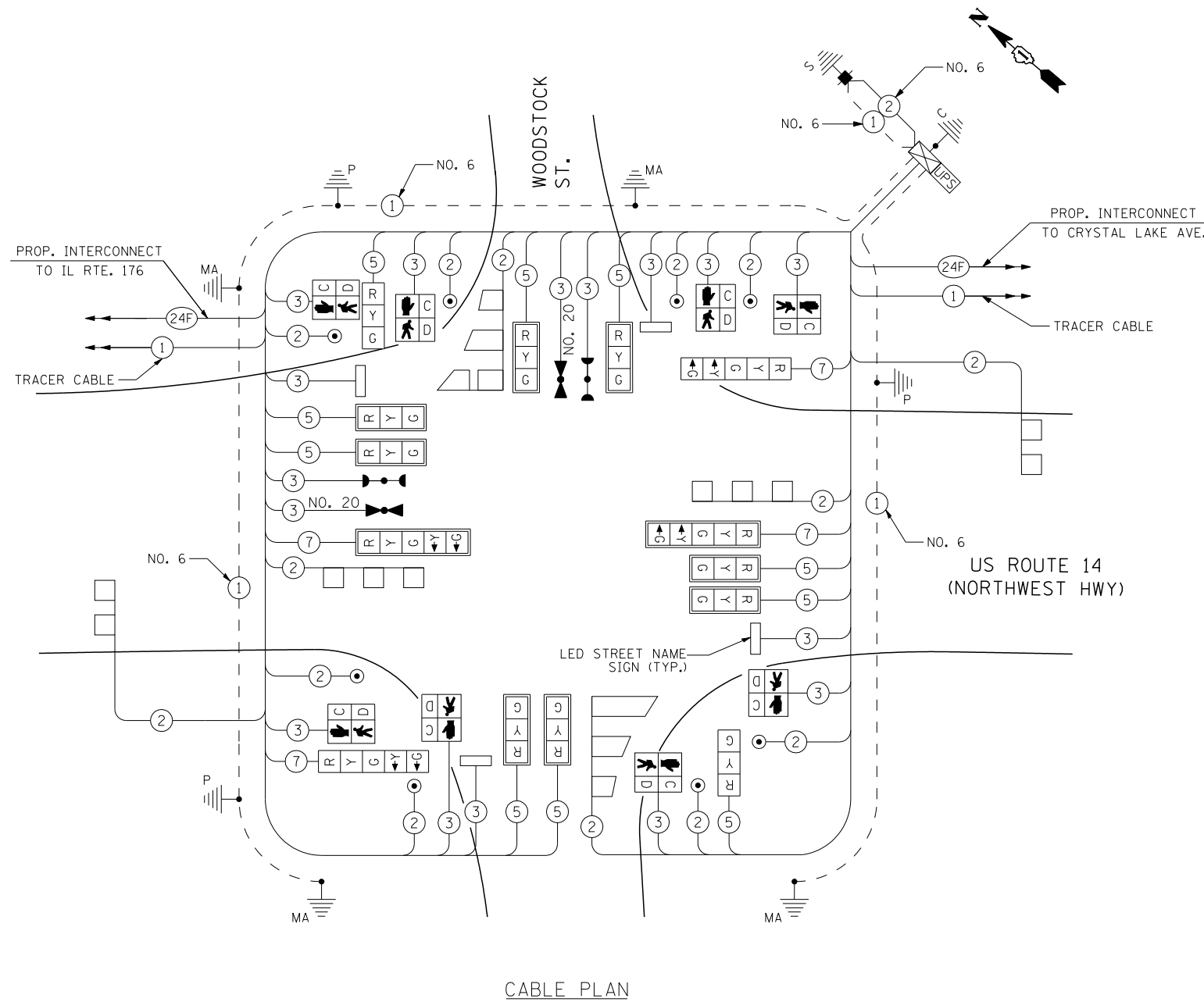
**TRAFFIC SIGNAL INSTALLATION PLAN  
US RTE. 14 AND WOODSTOCK ST.**

SCALE: 20:1 SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	27R-3	MCHENRY	431	307
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62517	

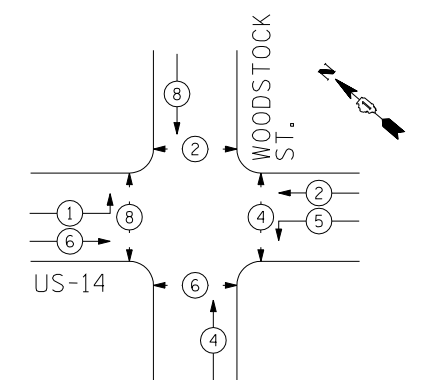
SCHEDULE OF QUANTITIES

ITEM	UNIT	QTY
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EA	4
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FT	610
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FT	16
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FT	47
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FT	452
HANDHOLE	EA	4
HEAVY-DUTY HANDHOLE	EA	2
DOUBLE HANDHOLE	EA	2
RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER AND CABINET, COMPLETE	EA	1
TRANSCEIVER - FIBER OPTIC	EA	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FT	1356
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FT	2165
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FT	1852
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FT	816
ELECTRIC CABLE IN CONDUIT, LEAD-IN NO. 14 1 PAIR	FT	1353
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2/C	FT	44
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EA	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EA	2
PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EA	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EA	2
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EA	1
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EA	1
CONCRETE FOUNDATION, TYPE A	FT	12
CONCRETE FOUNDATION, TYPE C	FT	4
CONCRETE FOUNDATION, TYPE E 36 INCH DIAMETER	FT	48
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EA	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EA	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EA	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EA	2
PEDESTRIAN SIGNAL HEAD, 1-FACE, LED, BRACKET MOUNTED WITH COUNTDOWN TIMER	EA	6
PEDESTRIAN SIGNAL HEAD, 2-FACE, LED, BRACKET MOUNTED WITH COUNTDOWN TIMER	EA	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINIUM	EA	10
INDUCTIVE LOOP DETECTOR	EA	6
LIGHT DETECTOR	EA	2
LIGHT DETECTOR AMPLIFIER	EA	1
PEDESTRIAN PUSH-BUTTON	EA	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EA	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EA	1
REMOVE EXISTING HANDHOLE	EA	7
REMOVE EXISTING CONCRETE FOUNDATION	EA	10
DETECTOR LOOP, TYPE I	FT	612
TEMPORARY TRAFFIC SIGNAL TIMING	EA	1
SERVICE INSTALLATION - POLE MOUNTED	EA	1
UNINTERRUPTIBLE POWER SUPPLY SPECIAL	EA	1
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FT	573
ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FT	353
100% LOCAL AGENCY COST		

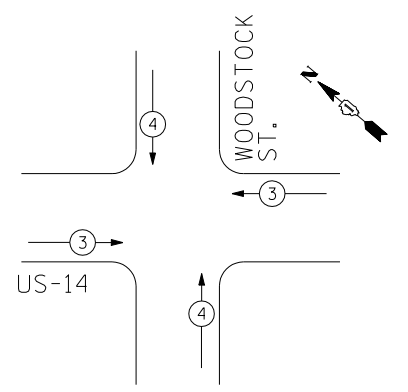
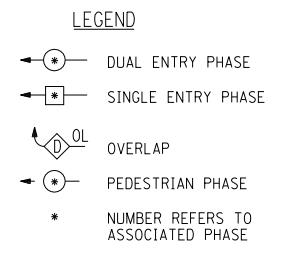


CABLE PLAN

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

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

TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	14	135	17	0.50	119
(YELLOW)	14	135	25	0.25	87.5
(GREEN)	14	135	15	0.25	52.5
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	8	90	25	1.00	200.00
CONTROLLER	1	100	100	1.00	100.00
FLASHER			25	0.50	
LED SIGN	2		90	0.50	90.00
LED SIGN (6'+)	2		120	0.50	120.00

ENERGY COSTS TO: TOTAL = 778.6

CITY OF CRYSTAL LAKE  
 100 WEST WOODSTOCK ST  
 CRYSTAL LAKE, ILLINOIS 60014  
 ENERGY SUPPLY: CONTACT: MIKE WIDHALM  
 PHONE: (815) 263-5624  
 COMPANY: COMED

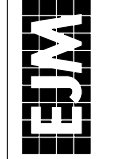
NOTE: THE EMERGENCY PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE "OPTICOM" BRAND TO MATCH THE EXISTING CITY SYSTEM.

NOTE: THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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

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

**EJM ENGINEERING, INC.**  
 411 South Wells Street Suite 1000  
 Chicago, Illinois 60607



FILE NAME = ...\\D162517-SHT-TS04A.dgn	USER NAME = rswanson	DESIGNED - JW	REVISED -
		DRAWN - JW	REVISED -
		CHECKED - RS	REVISED -
		DATE - 10/15/2013	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

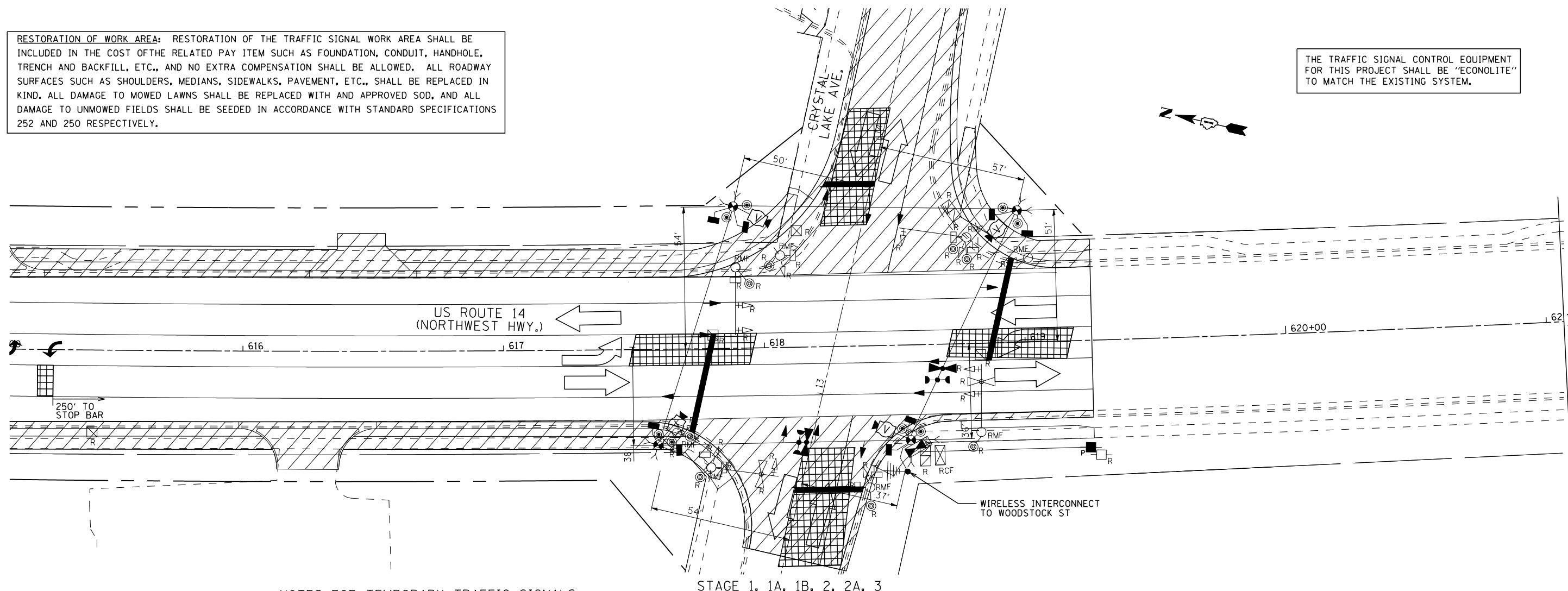
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
 US RTE. 14 AND WOODSTOCK ST.  
 SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	27R-3	MCHENRY	431	308
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62517	



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

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



**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

STAGE 1, 1A, 1B, 2, 2A, 3

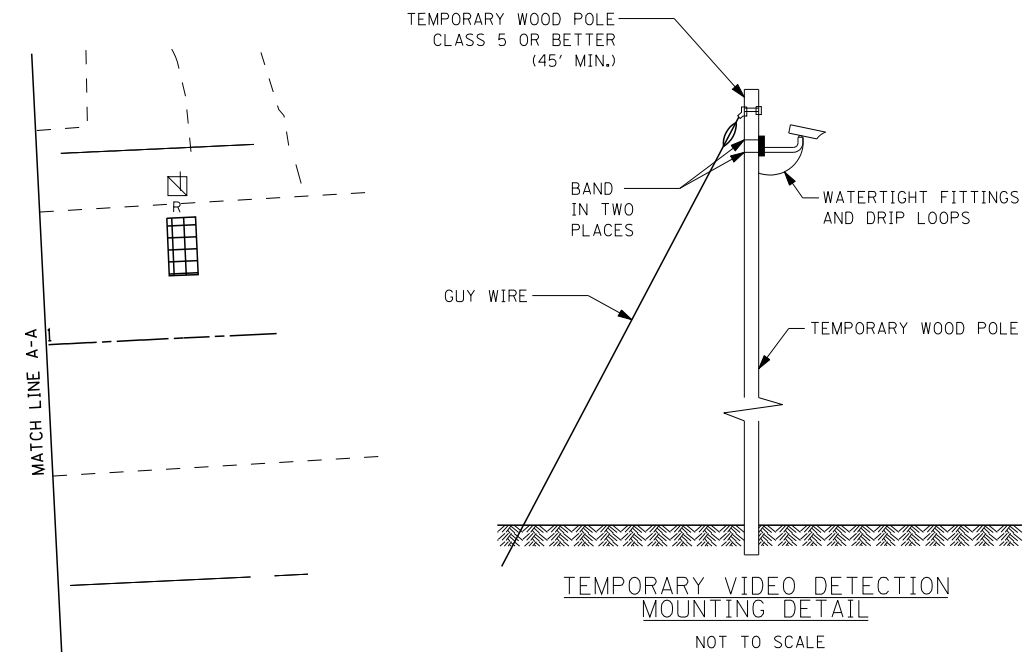
- ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
- ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR ALL CONSTRUCTION STAGES. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
- ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
- ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
- THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING TO MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF ACTIVATION, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
- UNINTERRUPTABLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
- TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
- DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE DISTRICT 1 SPECIFICATIONS. THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
- WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.
- THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT OF WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.
 

1	EACH	CONTROLLER AND CABINET (COMPLETE)
6	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
4	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
6	EACH	TRAFFIC SIGNAL BACKPLATE
4	EACH	STEEL MAST ARM AND POLE
4	EACH	TRAFFIC SIGNAL POST
2	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
3	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	SERVICE INSTALLATION
- THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE SIGNAL SPECIFICATIONS.
 

2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER

AGENCY: CITY OF CRYSTAL LAKE

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPROGRAMMING THE VIDEO DETECTORS TO THE VIDEO DETECTION AREAS FOR EACH CONSTRUCTION STAGE AS INDICATED ON THE TEMPORARY SIGNAL PLANS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE TEMPORARY TRAFFIC SIGNAL INSTALLATION PAY ITEM.



**EJM ENGINEERING, INC.**  
411 South Wells Street Suite 1000  
Chicago, Illinois 60607



FILE NAME =  
...\\0162517-SHT-TS51.dgn

USER NAME = rswanson	DESIGNED - MH	REVISED -
PLOT SCALE = 20:1	DRAWN - AB	REVISED -
PLOT DATE = 10/8/2013	CHECKED - BS	REVISED -
	DATE - 10/15/2013	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN  
US RTE. 14 AND CRYSTAL LAKE AVE.**

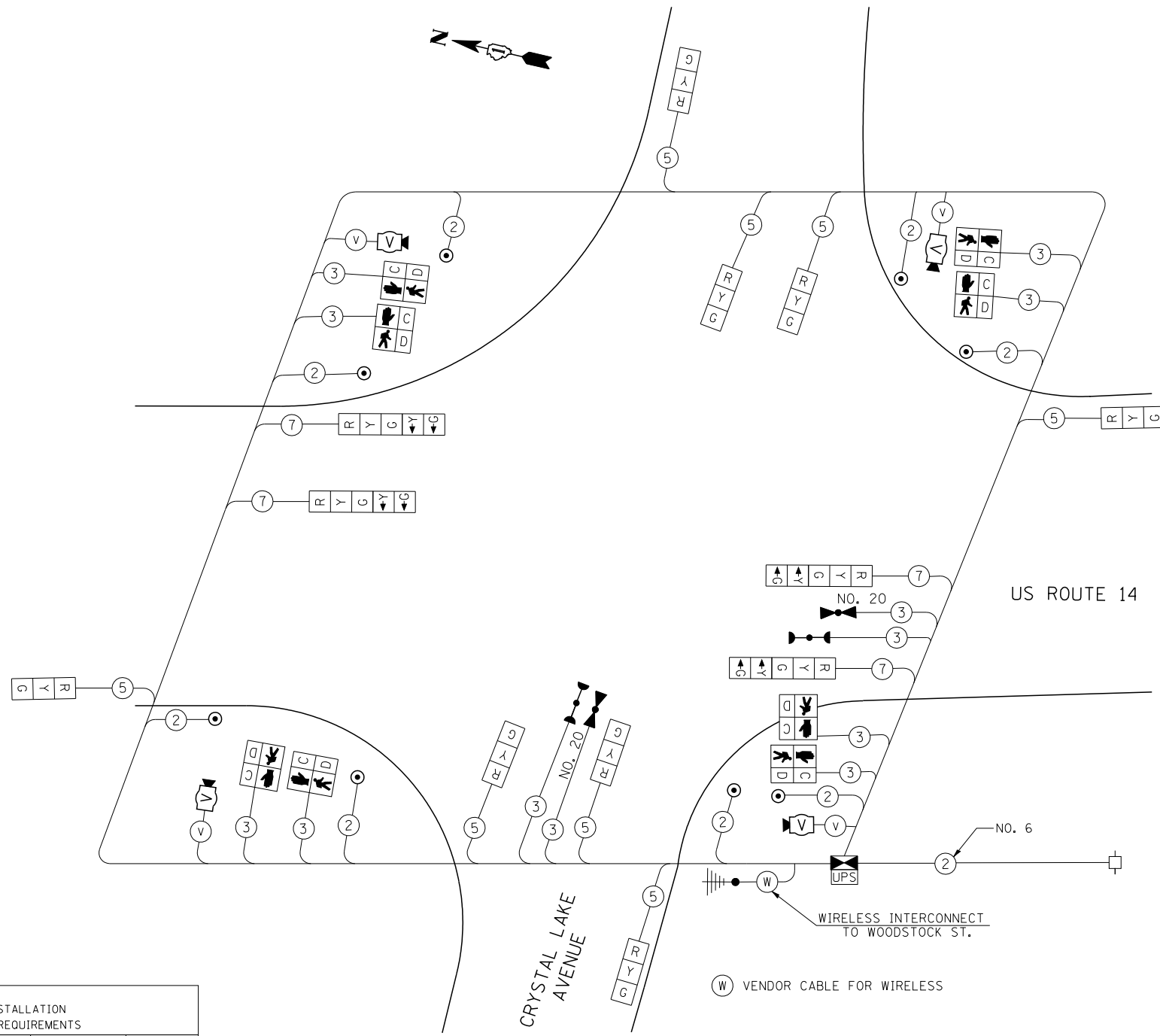
SCALE: 20:1 SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	27R-3	MCHENRY	431	309
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62517	

**EJM ENGINEERING, INC.**  
 411 South Wells Street Suite 1000  
 Chicago, Illinois 60607

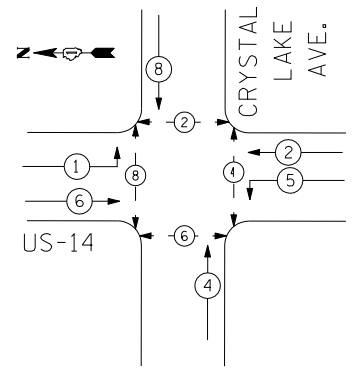


I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
PED. SIGNAL	8	90	25	1.00	200
ARROW	8	135	12	0.10	100
CONTROLLER	1	100	100	1.00	9.6
VIDEO SYSTEM	1	150		1.00	150
ENERGY COSTS TO: TOTAL = 681.6					
CITY OF CRYSTAL LAKE 100 WEST WOODSTOCK ST CRYSTAL LAKE, IL 60014					
ENERGY SUPPLY CONTACT:		MIKE WIDHALM			
PHONE:		(815) 263-5624			
COMPANY:		COMED			



TEMPORARY CABLE PLAN

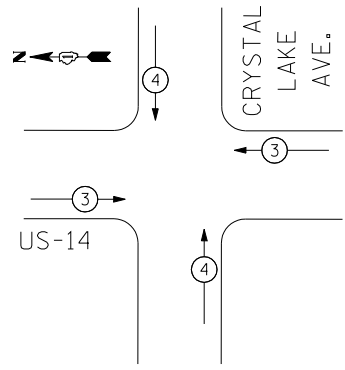
TEMPORARY CONTROLLER SEQUENCE



TEMPORARY PHASE DESIGNATION DIAGRAM

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

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↔	↕

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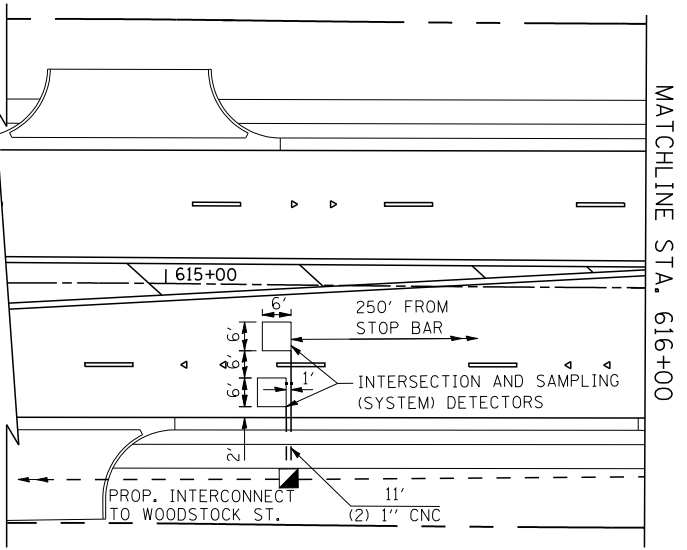
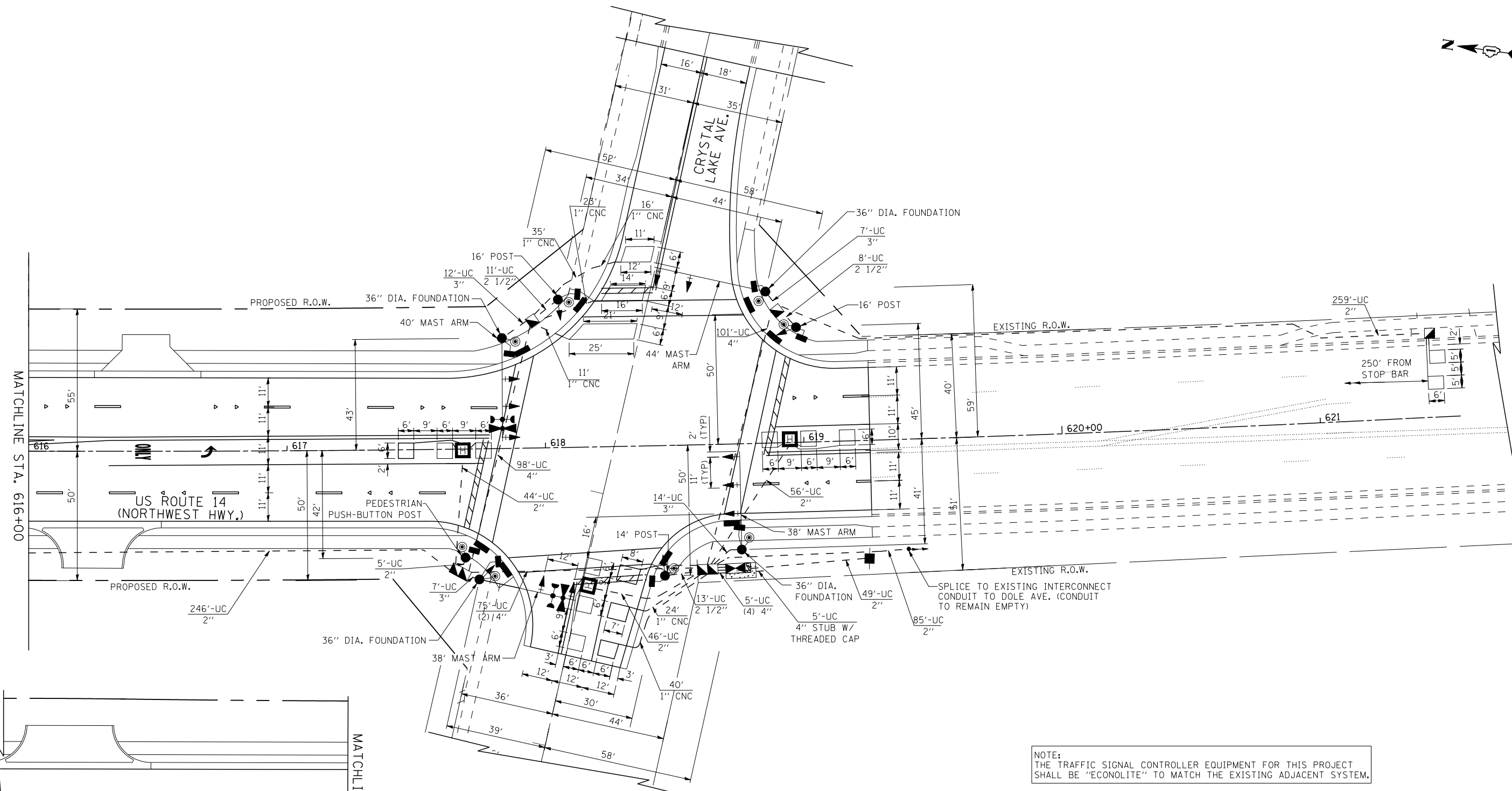
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
 AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
 US RTE. 14 AND CRYSTAL LAKE AVE.**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	27R-3	MCHENRY	431	310
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62517	



NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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

**EJM ENGINEERING, INC.**  
411 South Wells Street Suite 1000  
Chicago, Illinois 60607



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PLOT DATE = 10/8/2013	DATE - 10/15/2013		REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

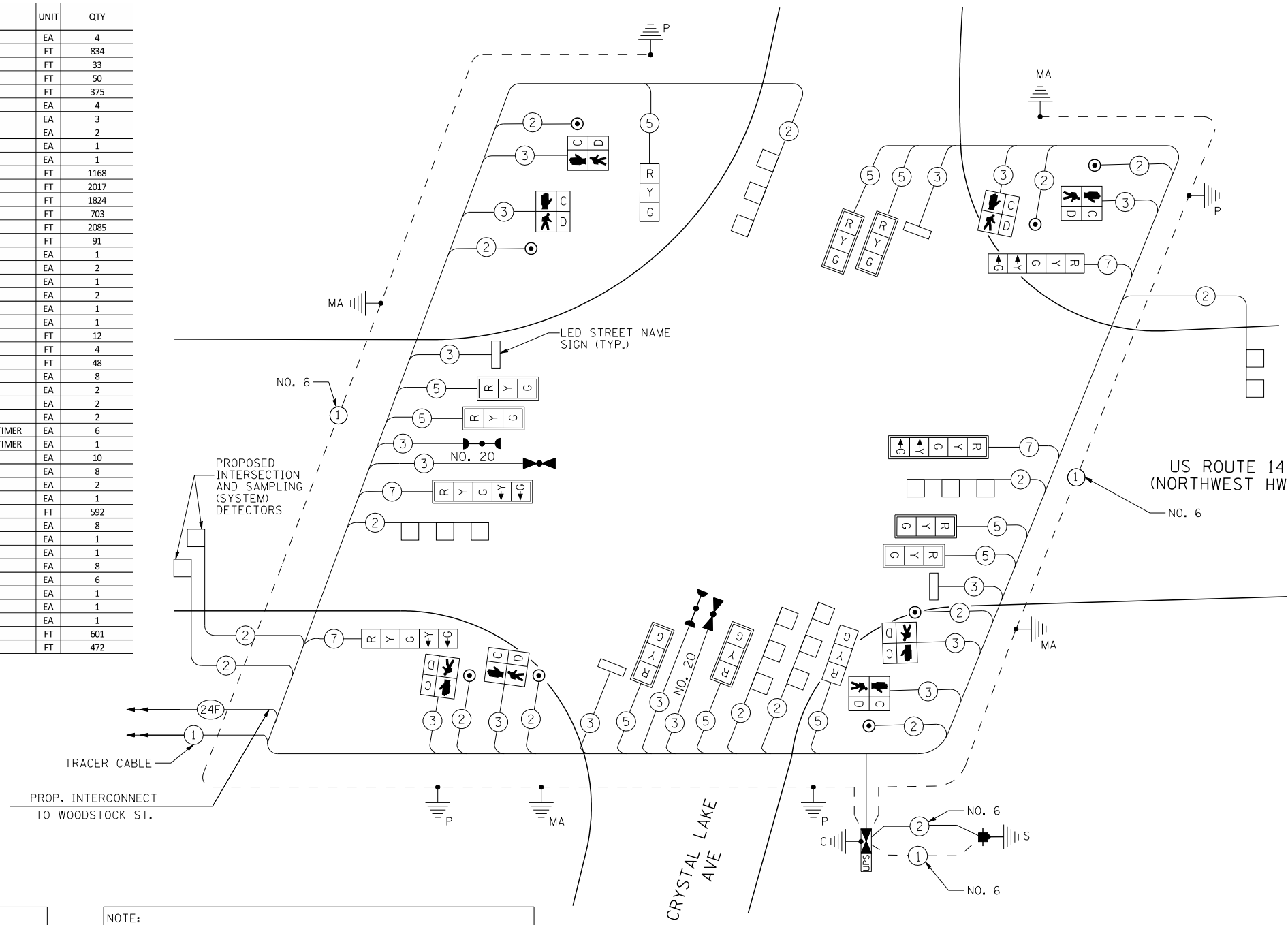
**TRAFFIC SIGNAL INSTALLATION PLAN  
US RTE. 14 AND CRYSTAL LAKE AVE.**

SCALE: 20:1 SHEET NO. OF SHEETS STA. TO STA.

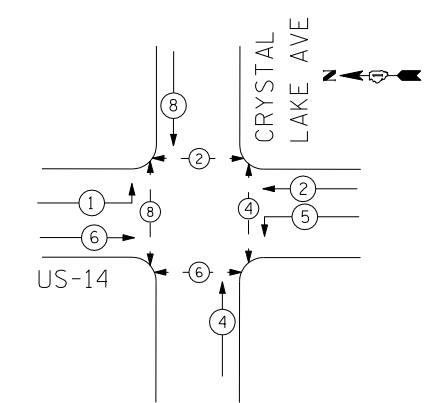
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	27R-3	MCHENRY	431	311
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62517	

SCHEDULE OF QUANTITIES

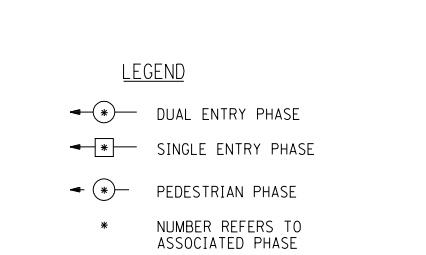
ITEM	UNIT	QTY
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EA	4
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FT	834
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FT	33
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FT	50
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FT	375
HANDHOLE	EA	4
HEAVY-DUTY HANDHOLE	EA	3
DOUBLE HANDHOLE	EA	2
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EA	1
TRANSCEIVER - FIBER OPTIC	EA	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FT	1168
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FT	2017
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FT	1824
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FT	703
ELECTRIC CABLE IN CONDUIT, LEAD-IN NO. 14 1 PAIR	FT	2085
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2/C	FT	91
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EA	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EA	2
PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EA	1
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EA	2
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EA	1
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EA	1
CONCRETE FOUNDATION, TYPE A	FT	12
CONCRETE FOUNDATION, TYPE C	FT	4
CONCRETE FOUNDATION, TYPE E 36 INCH DIAMETER	FT	48
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EA	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EA	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EA	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EA	2
PEDESTRIAN SIGNAL HEAD, 1-FACE, LED, BRACKET MOUNTED WITH COUNTDOWN TIMER	EA	6
PEDESTRIAN SIGNAL HEAD, 2-FACE, LED, BRACKET MOUNTED WITH COUNTDOWN TIMER	EA	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINIUM	EA	10
INDUCTIVE LOOP DETECTOR	EA	8
LIGHT DETECTOR	EA	2
LIGHT DETECTOR AMPLIFIER	EA	1
DETECTOR LOOP, TYPE 1	EA	592
PEDESTRIAN PUSH-BUTTON	EA	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EA	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EA	1
REMOVE EXISTING HANDHOLE	EA	8
REMOVE EXISTING CONCRETE FOUNDATION	EA	6
TEMPORARY TRAFFIC SIGNAL TIMING	EA	1
SERVICE INSTALLATION - POLE MOUNTED	EA	1
UNINTERRUPTIBLE POWER SUPPLY SPECIAL	EA	1
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FT	601
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3/C, TWISTED, SHIELDED	FT	472
100% LOCAL AGENCY COST		



CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



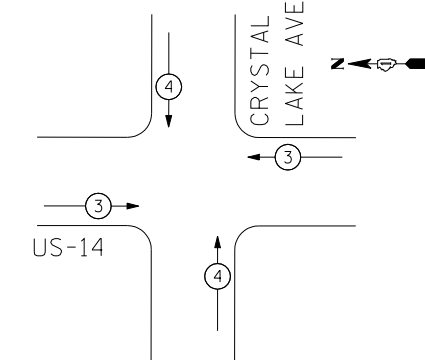
- LEGEND
- ⊙ (with number) = DUAL ENTRY PHASE
  - ⊠ (with number) = SINGLE ENTRY PHASE
  - ⊙ (with number and arrow) = PEDESTRIAN PHASE
  - \* (with number) = NUMBER REFERS TO ASSOCIATED PHASE

CABLE PLAN

PROPOSED EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↔	↕

EMERGENCY VEHICLE PREEMPTION SEQUENCE



NOTE:  
THE EMERGENCY PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE "OPTICOM" BRAND TO MATCH THE EXISTING CITY SYSTEM.

NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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

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

**EJM ENGINEERING, INC.**  
411 South Wells Street Suite 1000  
Chicago, Illinois 60607

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO. OF LAMPS	WATTAGE		TOTAL WATTAGE
		INCAND.	LED	
SIGNAL (RED)	14	135	17	119
(YELLOW)	14	135	25	87.5
(GREEN)	14	135	15	52.5
ARROW	8	135	12	9.6
PED. SIGNAL	8	90	25	200
CONTROLLER	1	100	100	100
LED SIGN	2		90	90
LED SIGN (6'+)	2		120	120

ENERGY COSTS TO: TOTAL = 778.6

CITY OF CRYSTAL LAKE  
100 WEST WOODSTOCK ST  
CRYSTAL LAKE, IL 60014

ENERGY SUPPLY: CONTACT: MIKE WIDHALM  
PHONE: (815) 263-5624  
COMPANY: COMED

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		RS	

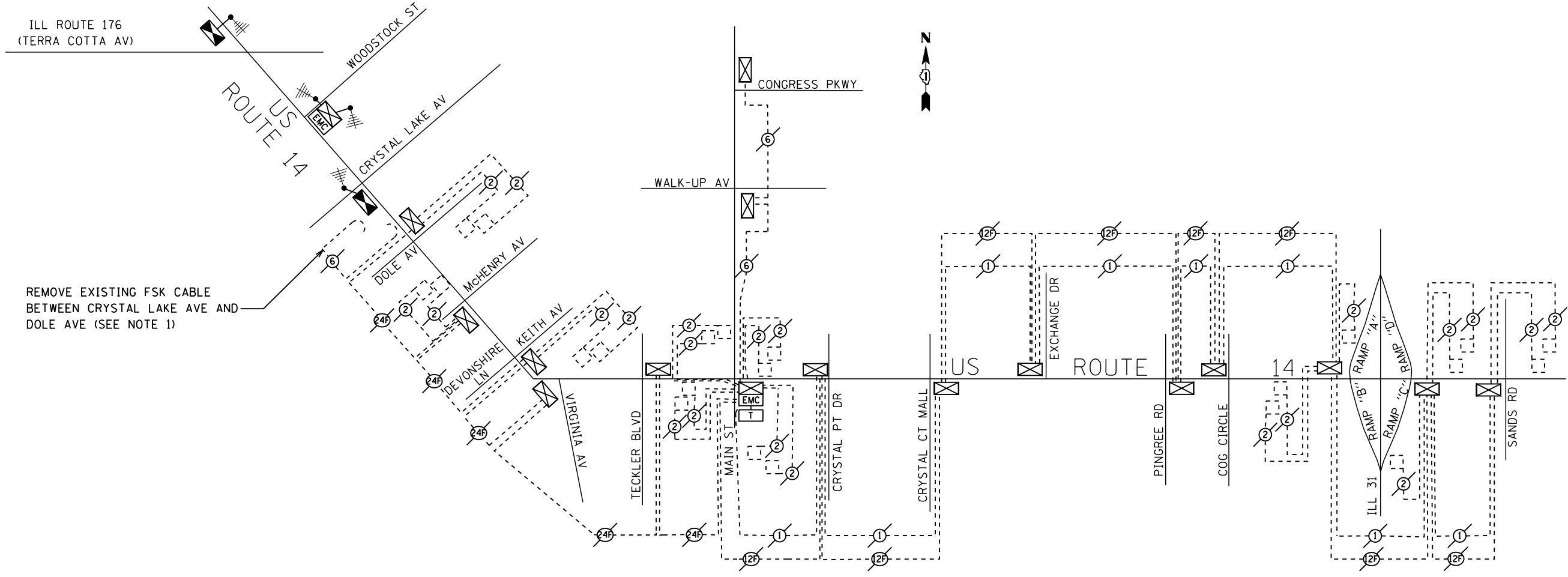
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DATE = 10/15/2013

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
US RTE. 14 AND CRYSTAL LAKE AVE.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	27R-3	MCHENRY	431	312
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				CONTRACT NO. 62517



TEMPORARY TRAFFIC SIGNAL SYSTEM INTERCONNECT SCHEMATIC

NOTES:

1. THE EXISTING INTERCONNECT CABLE BETWEEN CRYSTAL LAKE AV AND DOLE AV IS DAMAGED AND NON-FUNCTIONAL. ANY EXISTING CABLE SHALL BE REMOVED. THE EXISTING INTERCONNECT CONDUIT SHALL REMAIN IN PLACE, BUT NO NEW CONNECTION SHALL BE MADE BETWEEN CRYSTAL LAKE AV AND DOLE AV (SEE PROPOSED INTERCONNECT PLANS).

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 Chicago, Illinois 60607



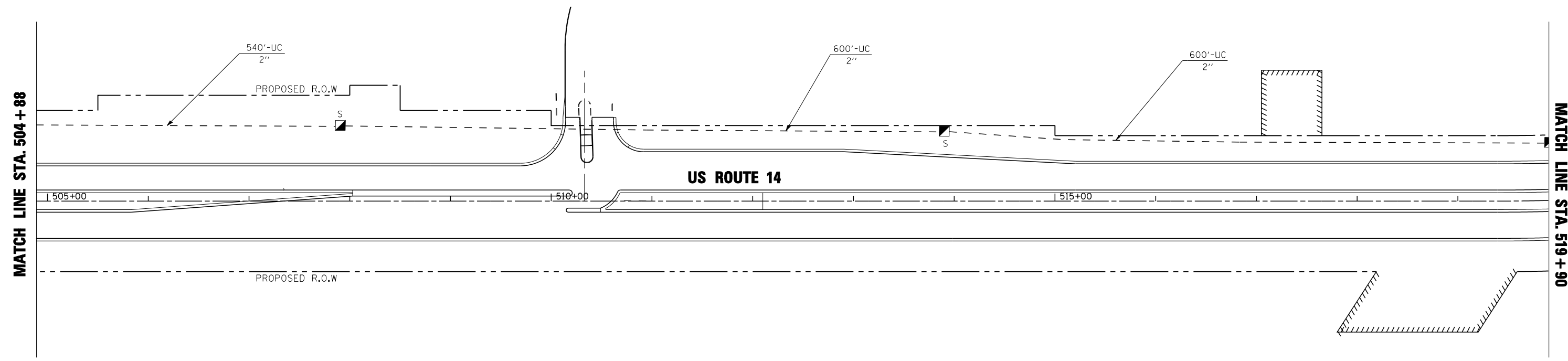
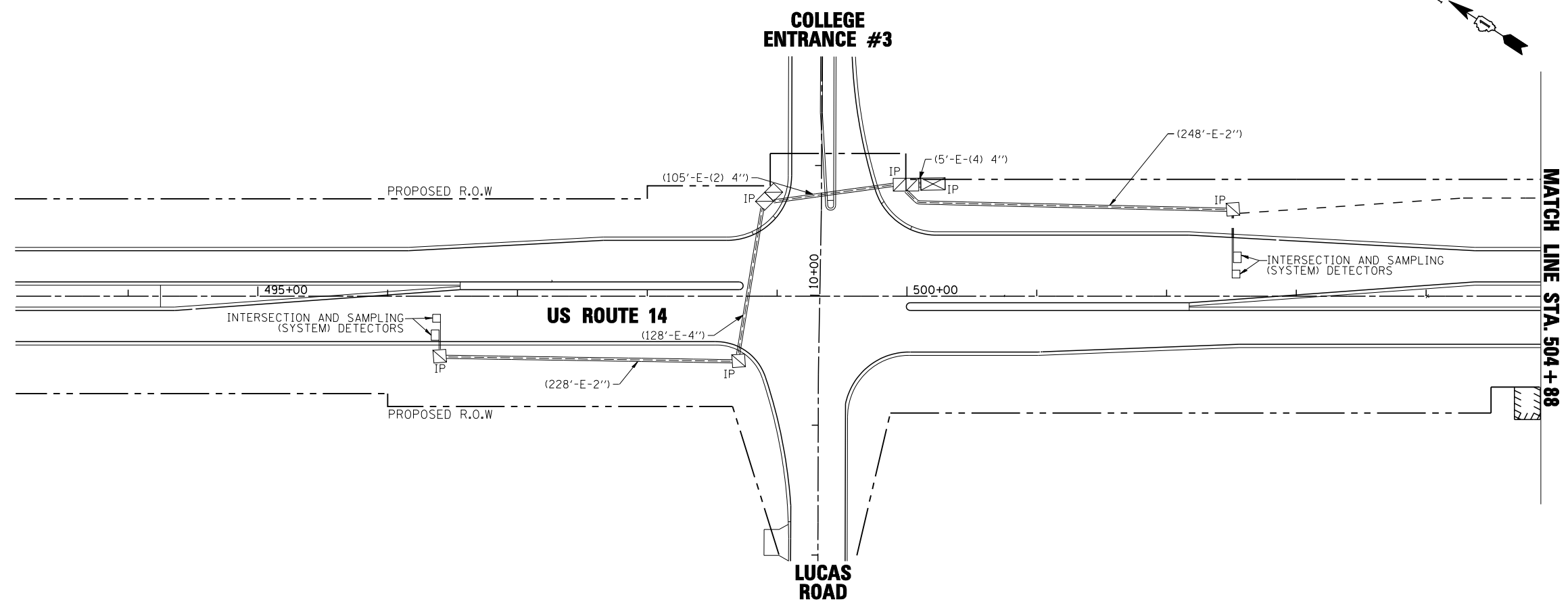
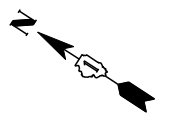
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		DATE - 10/15/2013	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**US RTE. 14**  
**TEMPORARY TRAFFIC SIGNAL INTERCONNECT SCHEMATIC**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	27R-3	MCHENRY	431	313
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62517	



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 Chicago, Illinois 60607



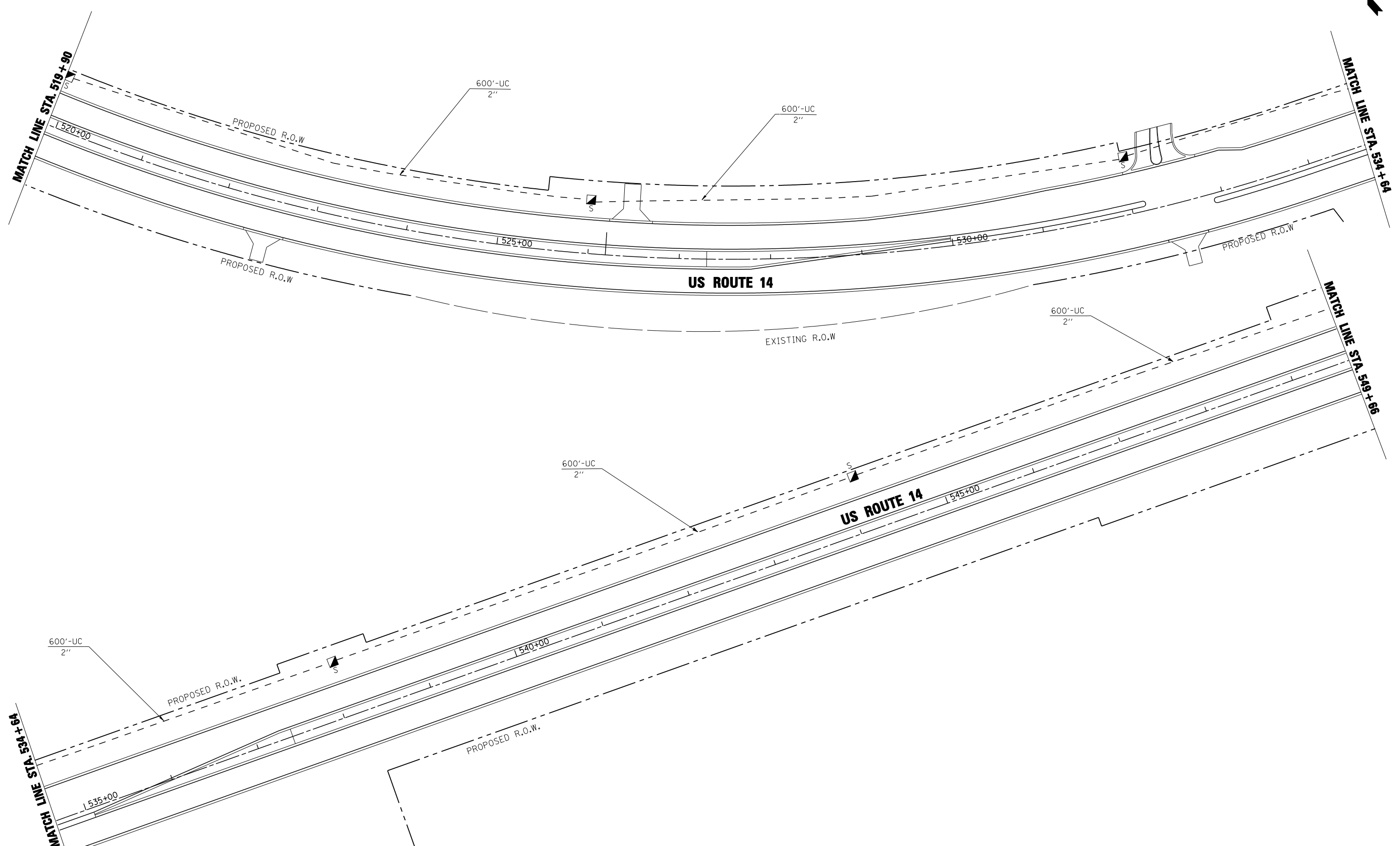
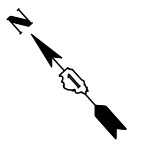
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

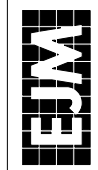
**U.S. ROUTE 14  
 TRAFFIC SIGNAL INTERCONNECT PLAN**

SCALE: 50:1 SHEET NO. 1 OF 5 SHEETS STA. 493+14 TO STA. 519+90

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	27R-3	MCHENRY	431	314
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62517	



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 Chicago, Illinois 60607



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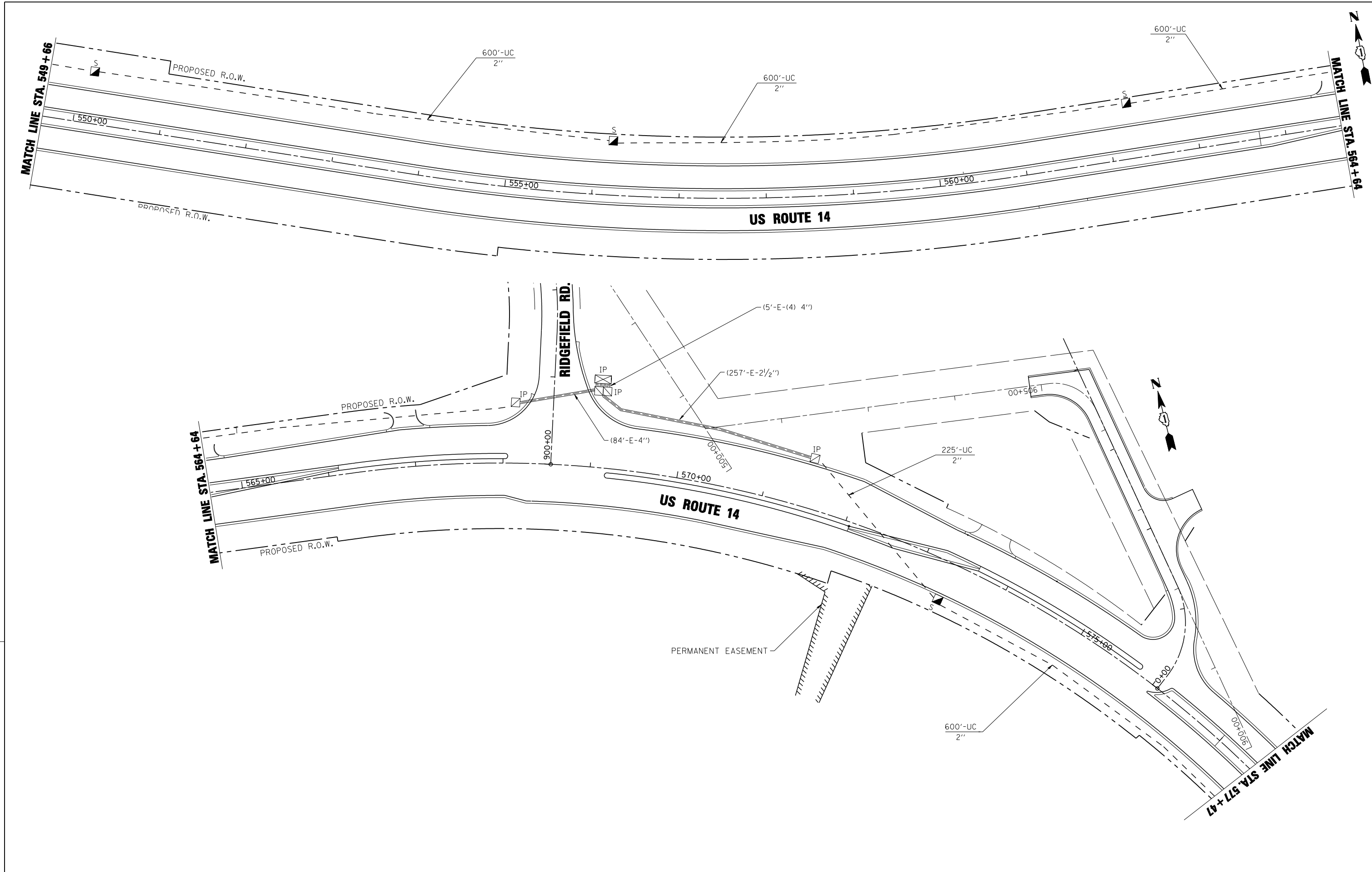
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**U.S. ROUTE 14  
 TRAFFIC SIGNAL INTERCONNECT PLAN**

SCALE: 50:1      SHEET NO. 2 OF 5 SHEETS      STA. 519+90      TO STA. 549+66

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	27R-3	MCHENRY	431	315
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62517	

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 Chicago, Illinois 60607



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

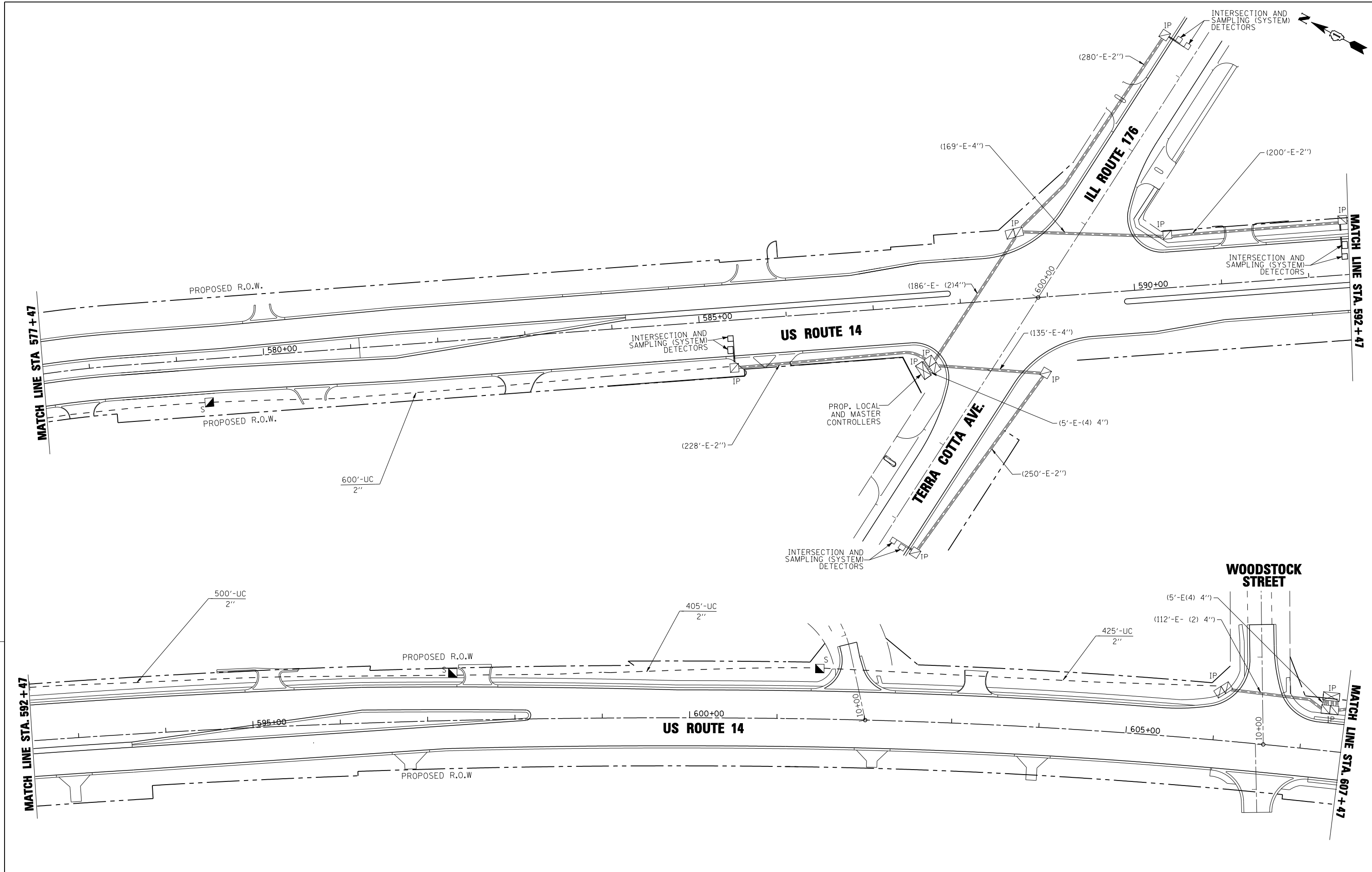
**US RTE. 14  
 TRAFFIC SIGNAL INTERCONNECT PLAN**

SCALE: 50:1 SHEET NO. 3 OF 5 SHEETS STA. 549+66 TO STA. 577+47

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	27R-3	MCHENRY	431	316
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62517	



**EJM ENGINEERING, INC.**  
 411 South Wells Street Suite 1000  
 Chicago, Illinois 60607



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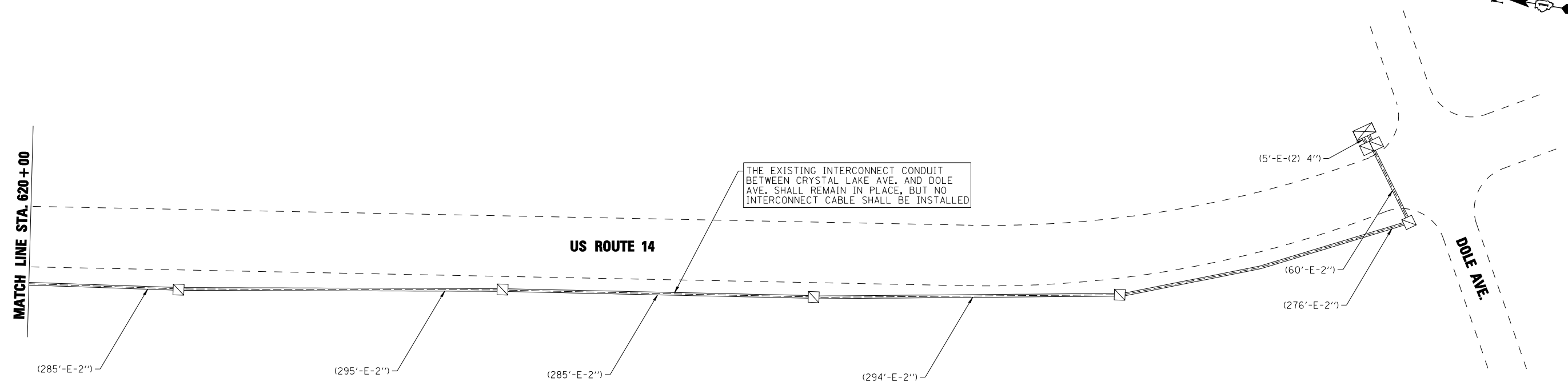
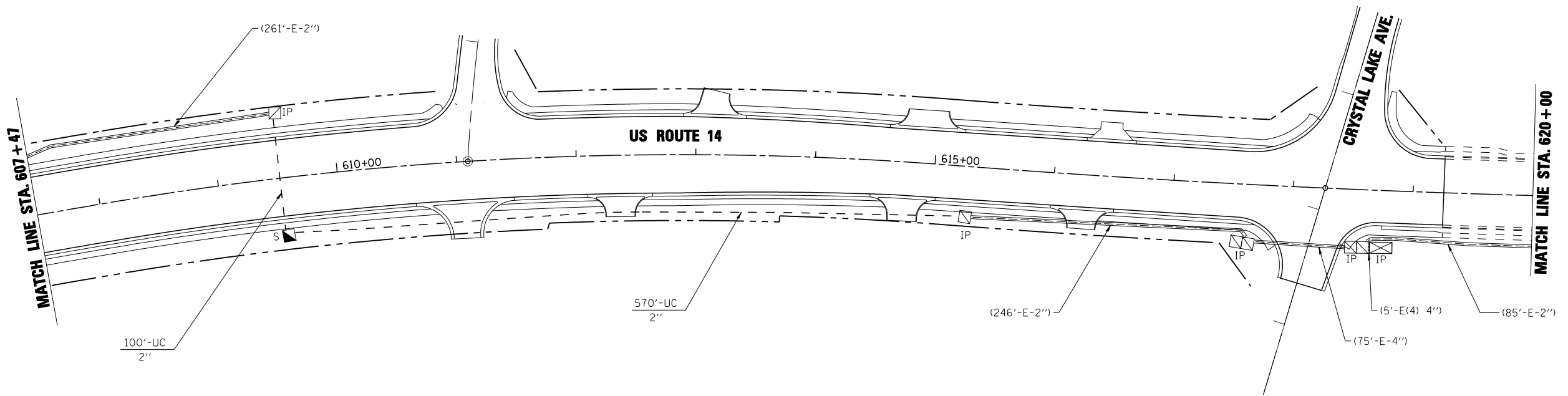
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US RTE. 14  
 TRAFFIC SIGNAL INTERCONNECT PLAN**

SCALE: 50:1 SHEET NO. 4 OF 5 SHEETS STA. 577+47 TO STA. 607+47

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	27R-3	MCHENRY	431	317
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62517	



**EJM ENGINEERING, INC.**  
 411 South Wells Street Suite 1000  
 Chicago, Illinois 60607



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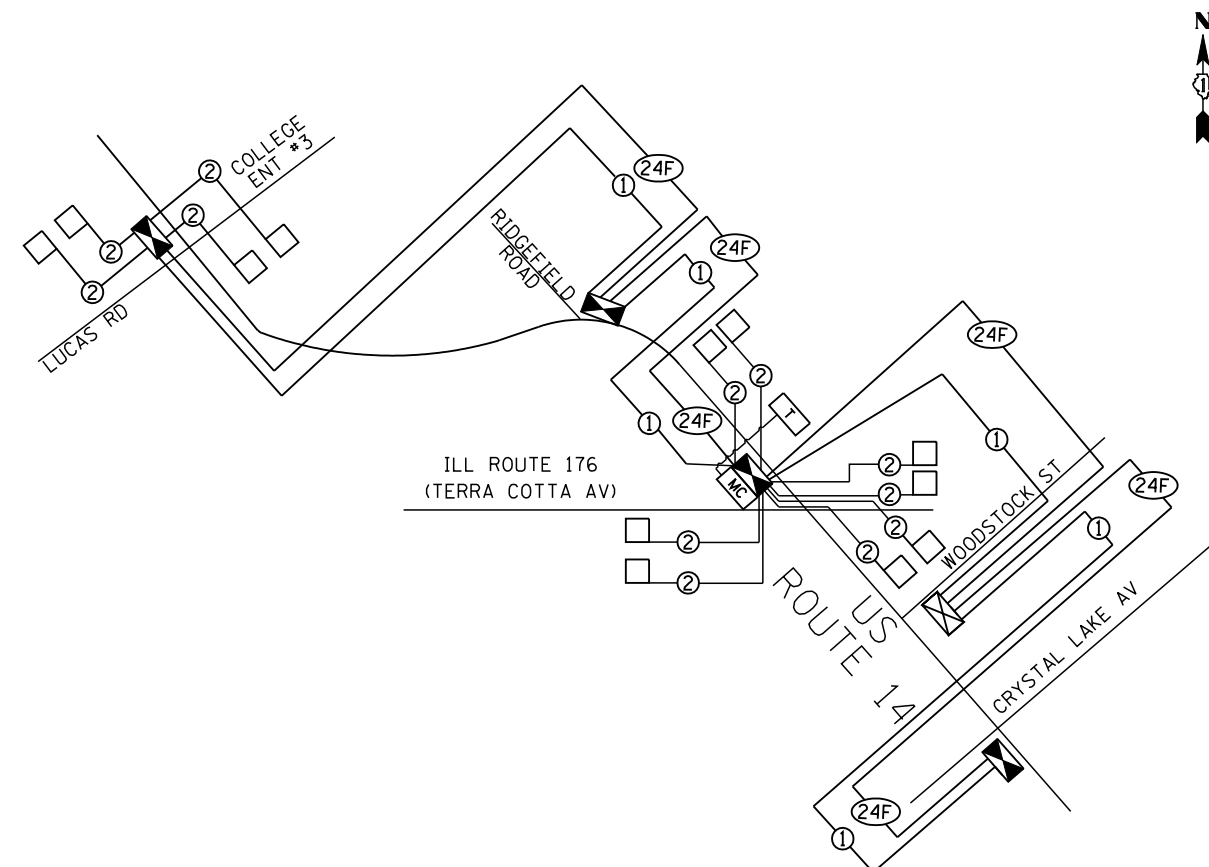
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US RTE. 14  
 TRAFFIC SIGNAL INTERCONNECT PLAN**  
 SCALE: 50:1 SHEET NO. 5 OF 5 SHEETS STA. 607+47 TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	27R-3	MCHENRY	431	318
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62517	

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	9965
HANDHOLE	EA	15
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	300
OPTIMIZE TRAFFIC SIGNAL SYSTEM	EA	1
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	12473
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	12473



TRAFFIC SIGNAL SYSTEM INTERCONNECT SCHEMATIC

EJM ENGINEERING, INC.  
411 South Wells Street Suite 1000  
Chicago, Illinois 60607



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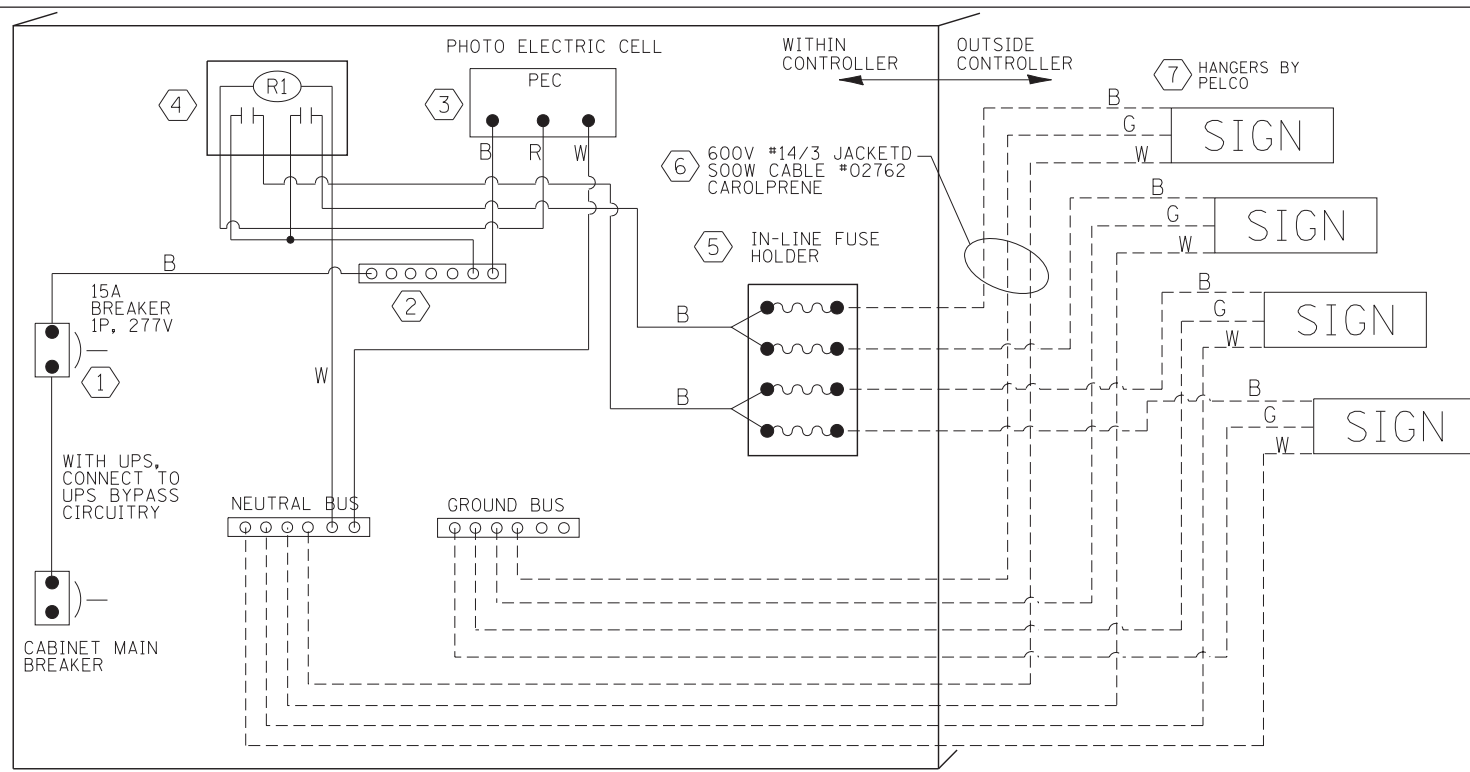
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US RTE. 14	
TRAFFIC SIGNAL INTERCONNECT SCHEMATIC	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

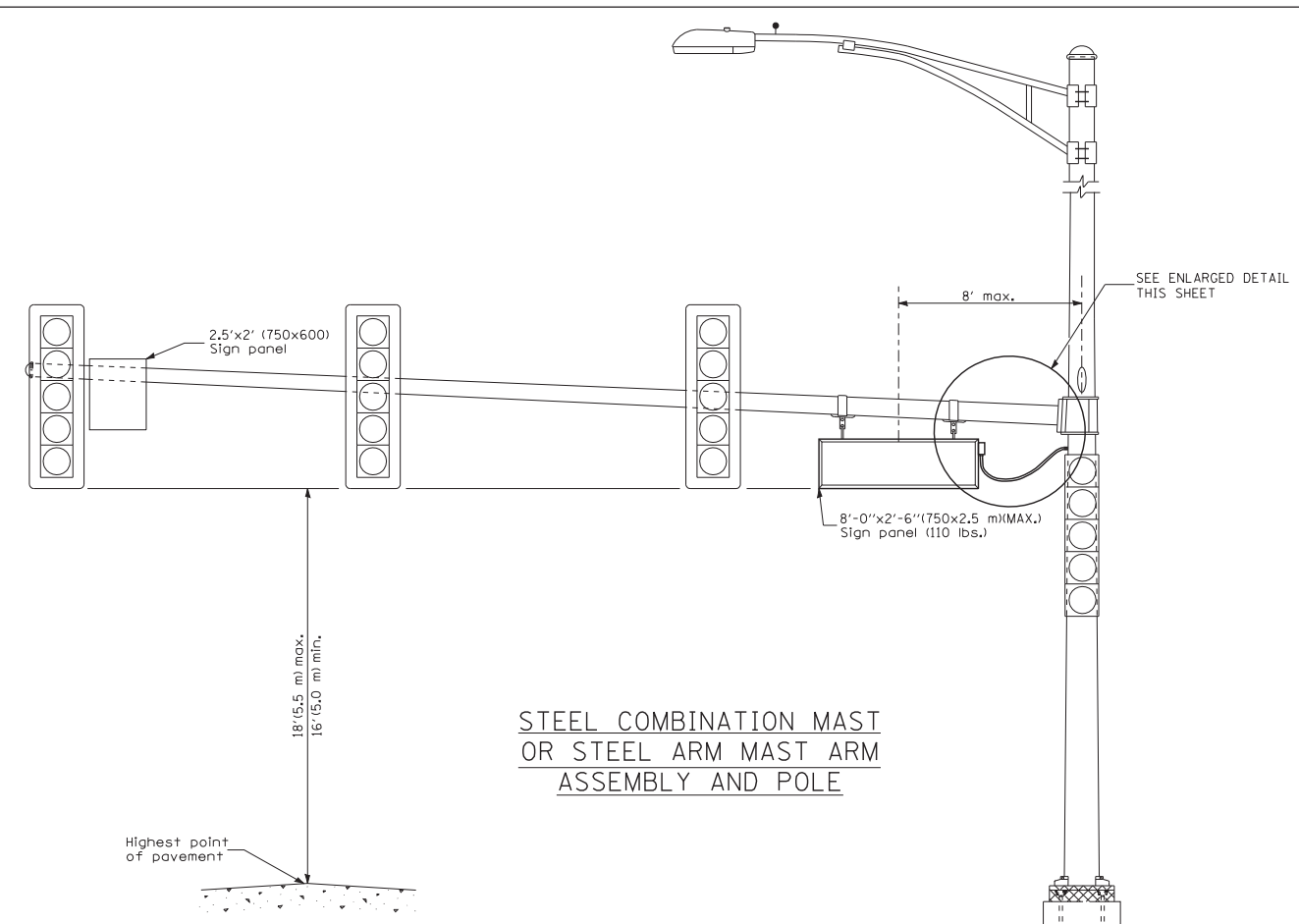
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	27R-3	MCHENRY	431	319
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62517	







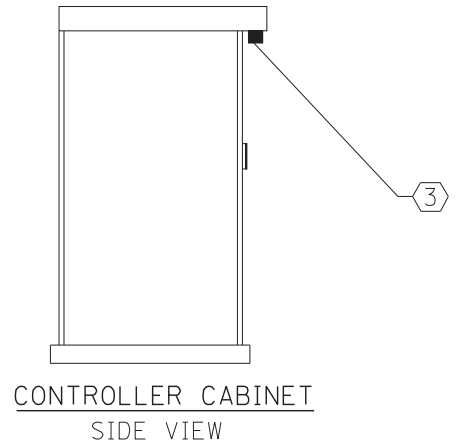
LED SIGN WIRING DETAIL



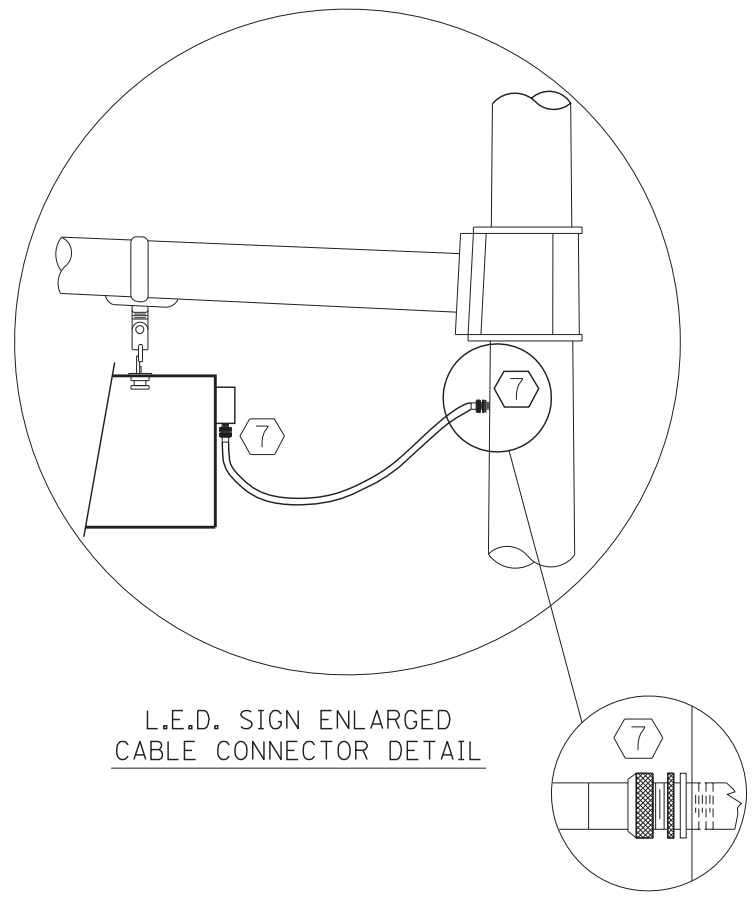
STEEL COMBINATION MAST OR STEEL ARM MAST ASSEMBLY AND POLE

DESCRIPTION	MANUFACTURER	MODEL	NOTES
① CIRCUIT BREAKER		15 AMPERE	Molded case, Thermal Mag. min. R.I. of 14K R.M.S. symmetrical ampere at 277V.
② TERMINAL BLOCK	MARATHON	1502 DJSV	
③ PHOTO ELECTRIC CONTROL	FISHER PIERCE	B124-1.5-07762	
④ CONTROL RELAY	SQUARE D	8501X020V02	BOLT ON W/SCREW TERMINAL
⑤ INLINE FUSE HOLDER WITH 5 AMP FUSE	BUSSMAN	S-8000 BK/S-8-3-4-R	
⑥ ELECTRIC CABLE, NO. 14, 3/C (BLACK, WHITE, GREEN)	CAROLPRENE/SOOW	02762	
⑦ SIGN MOUNTING HARDWARE	PELCO	SE-5015	S.S. HARDWARE

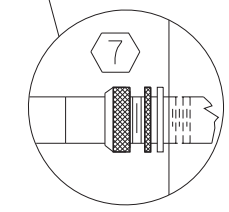
BILL OF MATERIALS



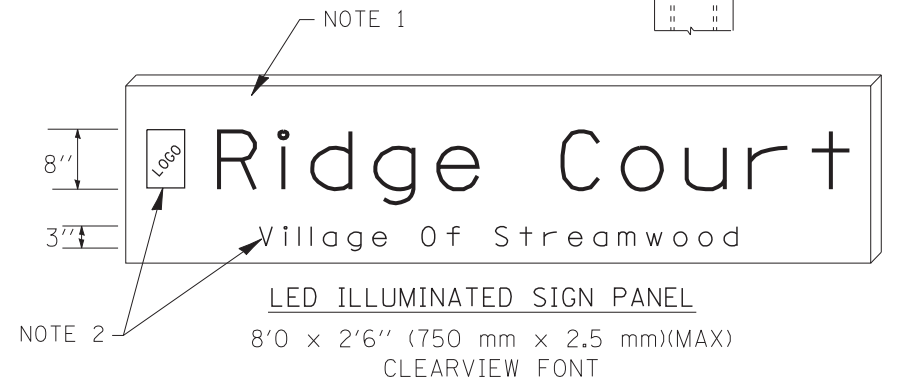
CONTROLLER CABINET SIDE VIEW



L.E.D. SIGN ENLARGED CABLE CONNECTOR DETAIL



L.E.D. SIGN ENLARGED CABLE CONNECTOR DETAIL



LED ILLUMINATED SIGN PANEL  
8'0" x 2'6" (750 mm x 2.5 mm) (MAX)  
CLEARVIEW FONT

NOTES:

- SIGNS SHALL BE DUAL SIDED. FRONT AND BACK OF SIGN WILL BE THE SAME.
- CERTAIN ADDITIONAL INFORMATION MAY BE ALLOWED ON THE SIGN. VERIFY WITH ENGINEER.
- SIGNS SHALL NOT BE ENERGIZED WHEN TRAFFIC SIGNALS ARE POWERED BY THE UPS. THE SIGNS SHALL BE CONNECTED TO THE UPS BYPASS CIRCUITRY.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:  
R = RED      BL = BLUE      W = WHITE  
B = BLACK      Y = YELLOW      G = GREEN
- ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE #12AWG STRANDED UNLESS OTHERWISE INDICATED.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

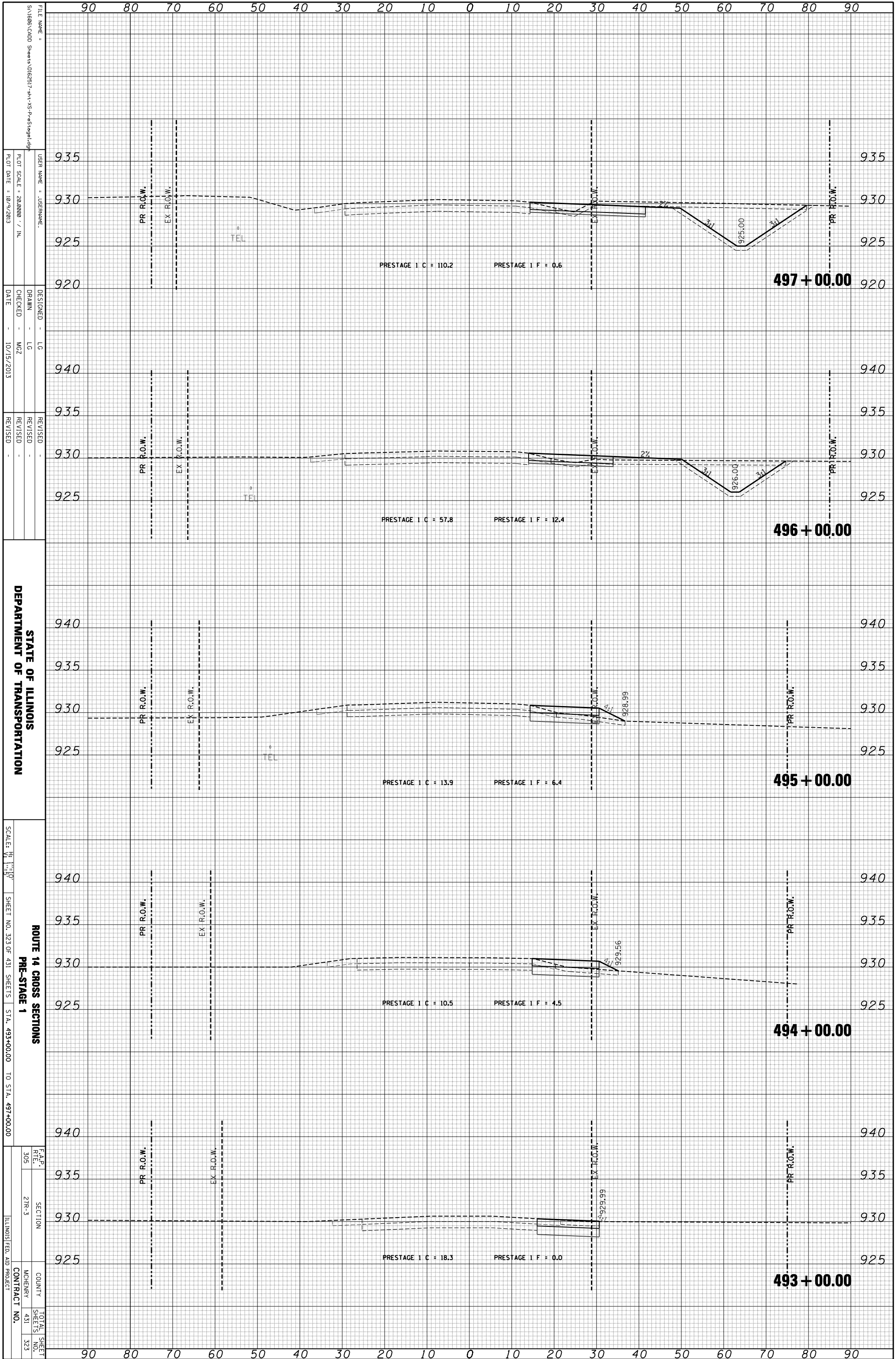
DISTRICT ONE  
LIGHTED STREET NAME SIGN

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	27R-3	MCHENRY	431	322
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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REVISOR -  
 REVISION -

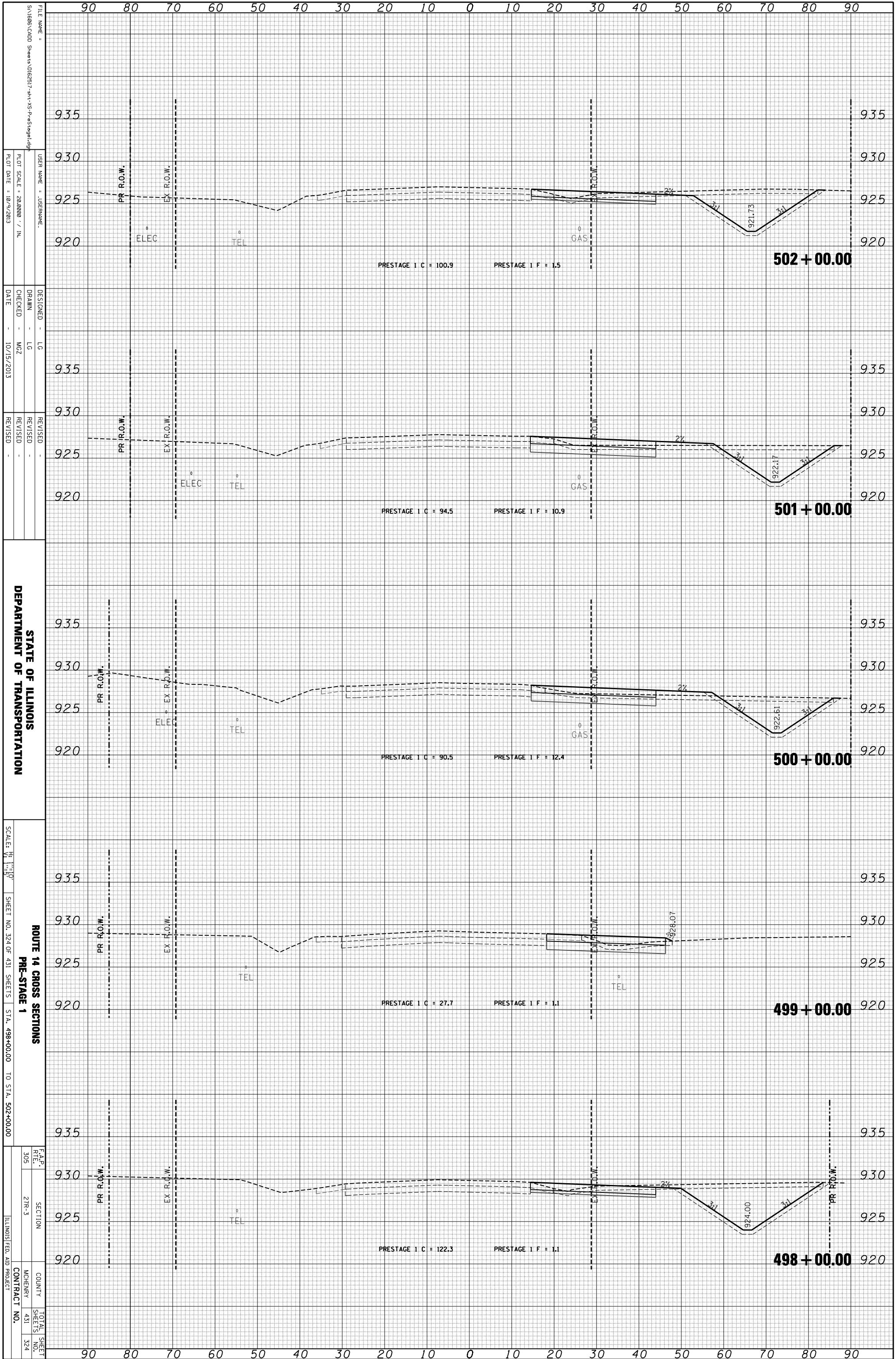
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
 PRE-STAGE 1  
 SCALE: 1" = 100'  
 SHEET NO. 323 OF 431 SHEETS  
 STA. 493+00.00 TO STA. 497+00.00

F.A.P. R.E.L.	SECTION	COUNTY	TOTAL SHEET NO.
305	21R-3	MCHEMERY	431
			323
		ILLINOIS FED. AID PROJECT	CONTRACT NO.

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

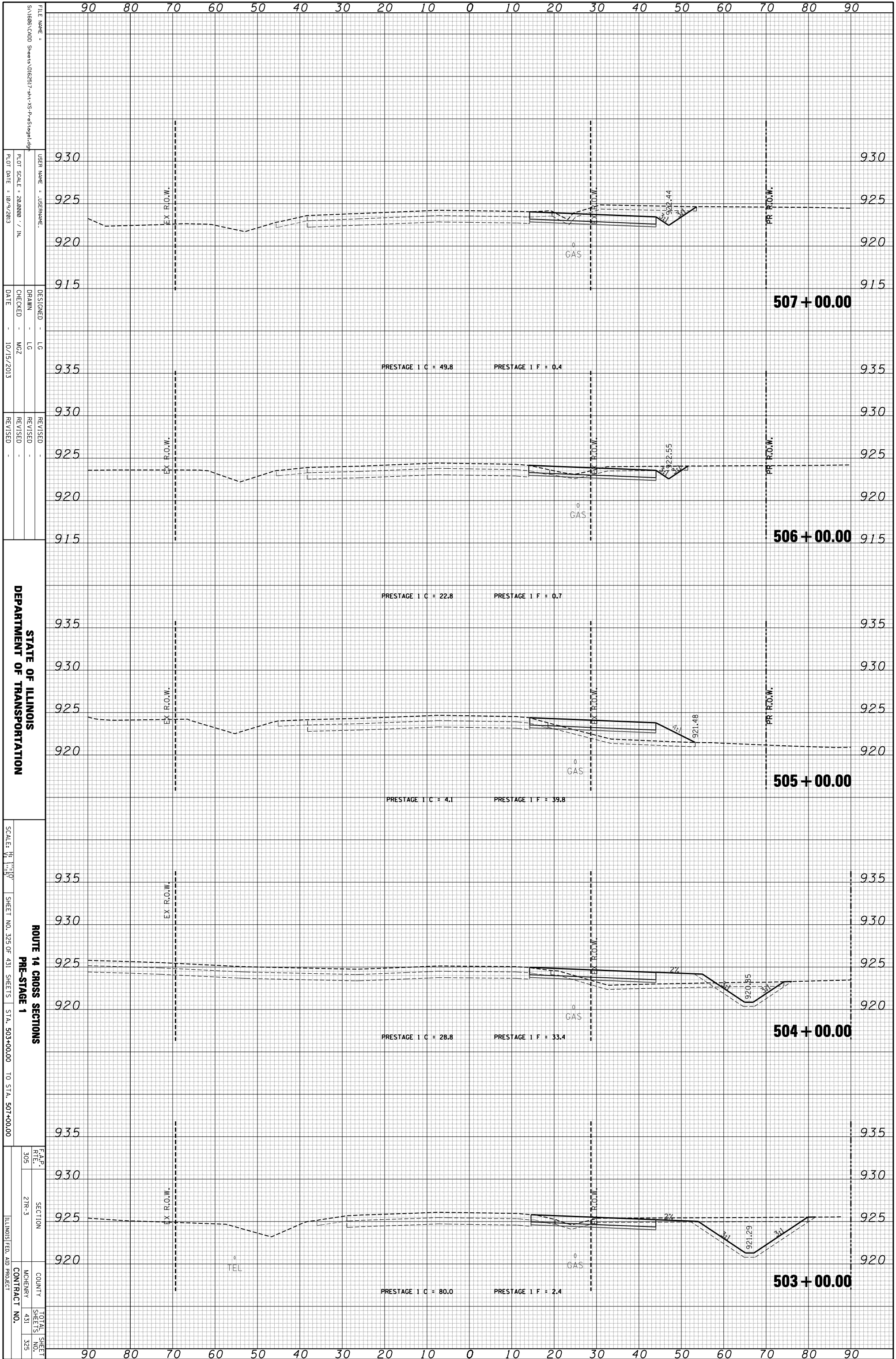
ROUTE 14 CROSS SECTIONS  
 PRE-STAGE 1  
 SCALE: 1" = 10'  
 SHEET NO. 324 OF 431 SHEETS STA. 498+00.00 TO STA. 502+00.00

F.A.P. R.E.L.	SECTION	COUNTY	TOTAL SHEETS
305	21R-3	MCHEMERY	431
		CONTRACT NO.	324
		ILLINOIS FED. AID PROJECT	



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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	AREAS		
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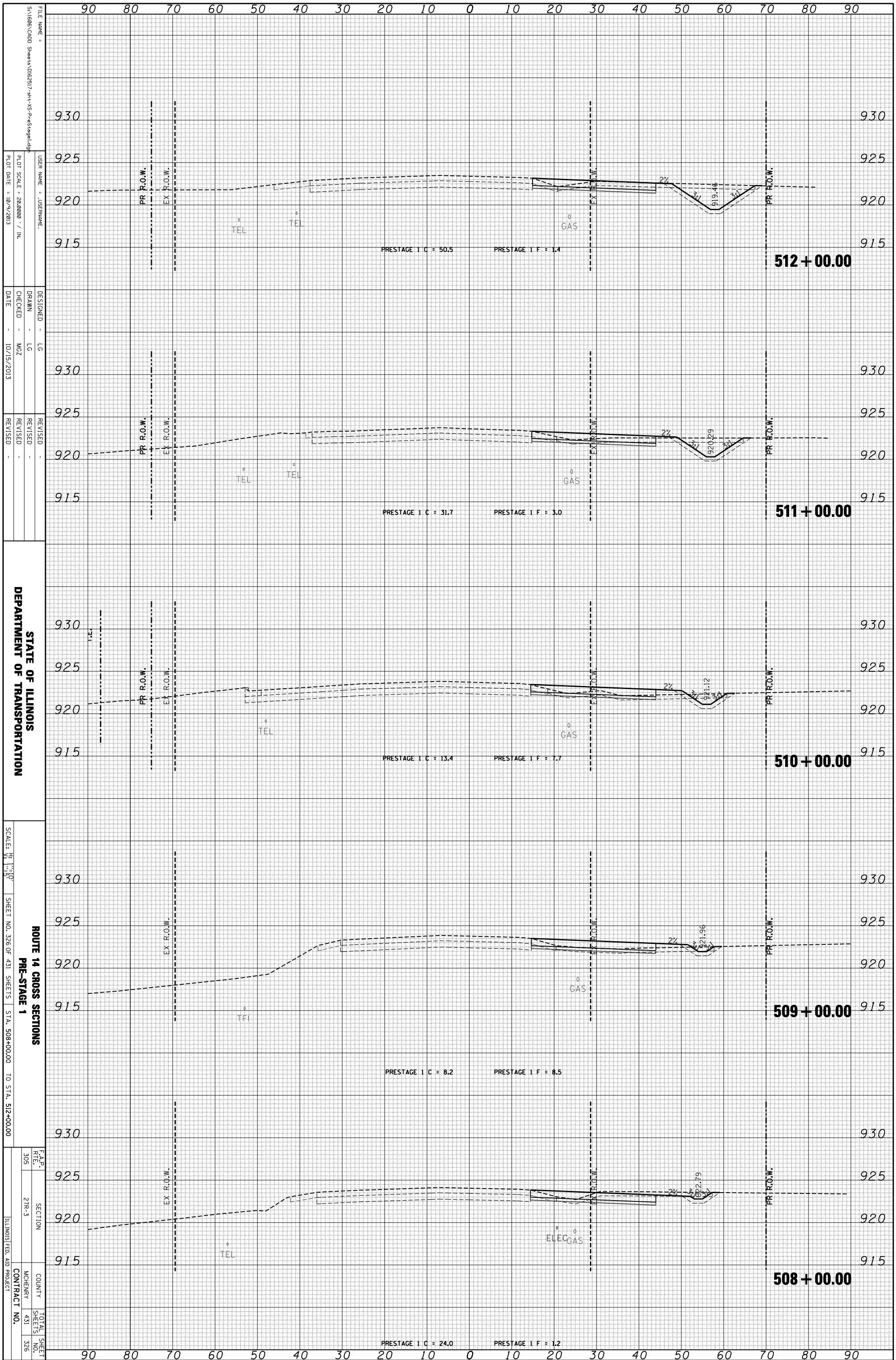
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
 PRE-STAGE 1  
 SCALE: 1" = 100'  
 SHEET NO. 325 OF 431 SHEETS  
 STA. 503+00.00 TO STA. 507+00.00

F.A.P. R.E.L.	SECTION	COUNTY	TOTAL SHEETS
305	21R-3	MCHEMERY	431
			325
ILLINOIS FED. AID PROJECT		CONTRACT NO.	

ORIGINAL SURVEY	SURVEYED	BY	DATE
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	AREAS		
	CHECKED		

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	AREAS		
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 CHECKED - MZ  
 DATE - 10/15/2013

REVISIONS  
 REVISION  
 REVISION  
 REVISION

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
 PRE-STAGE 1

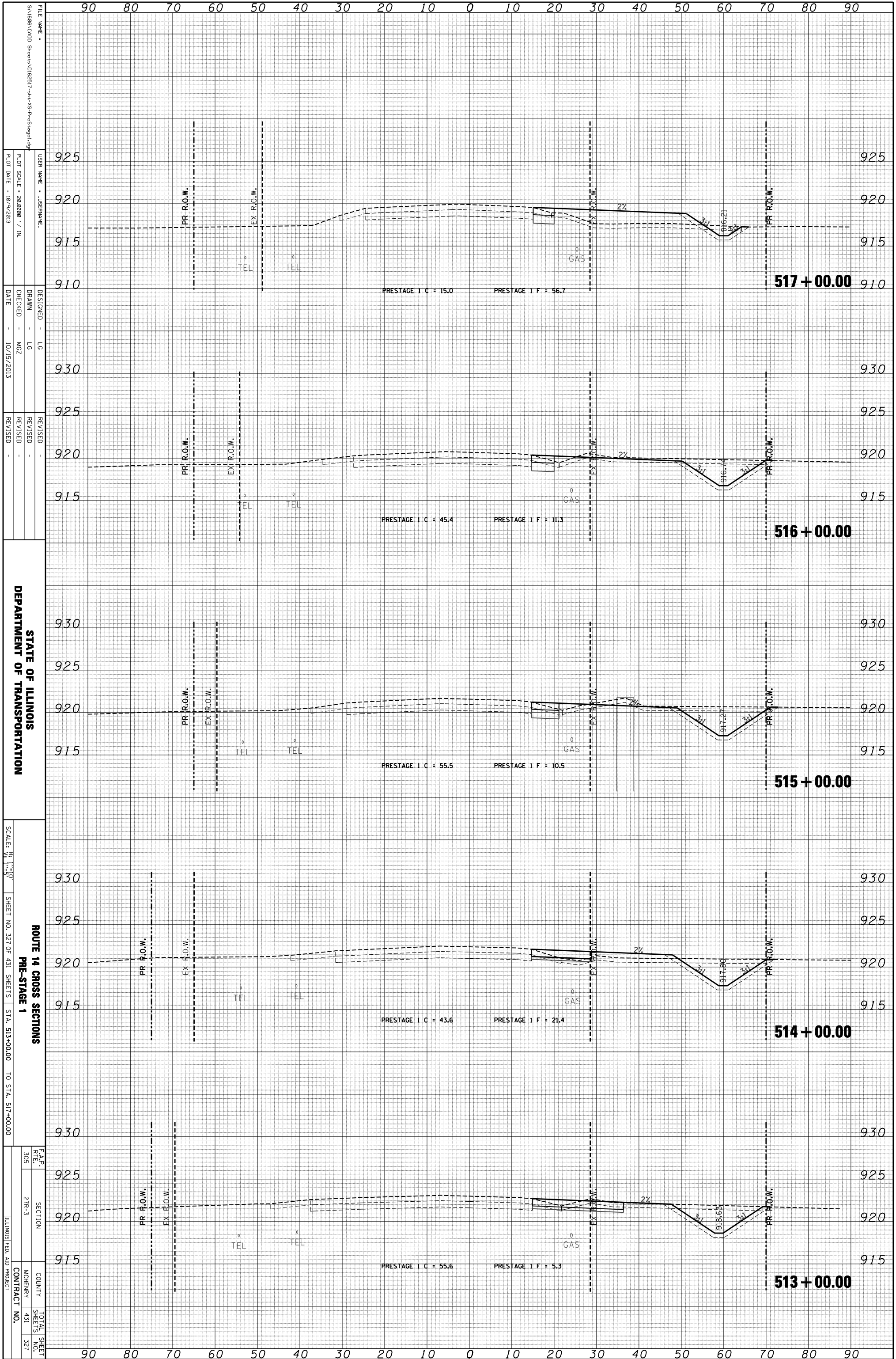
SCALE: 1" = 20'  
 SHEET NO. 326 OF 431 SHEETS  
 STA. 508+00.00 TO STA. 512+00.00

F.A.P. REL.	SECTION	COUNTY	TOTAL SHEETS
305	21R-3	MCHEMERY	431
			326

ILLINOIS FED. AID PROJECT  
 CONTRACT NO.

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
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FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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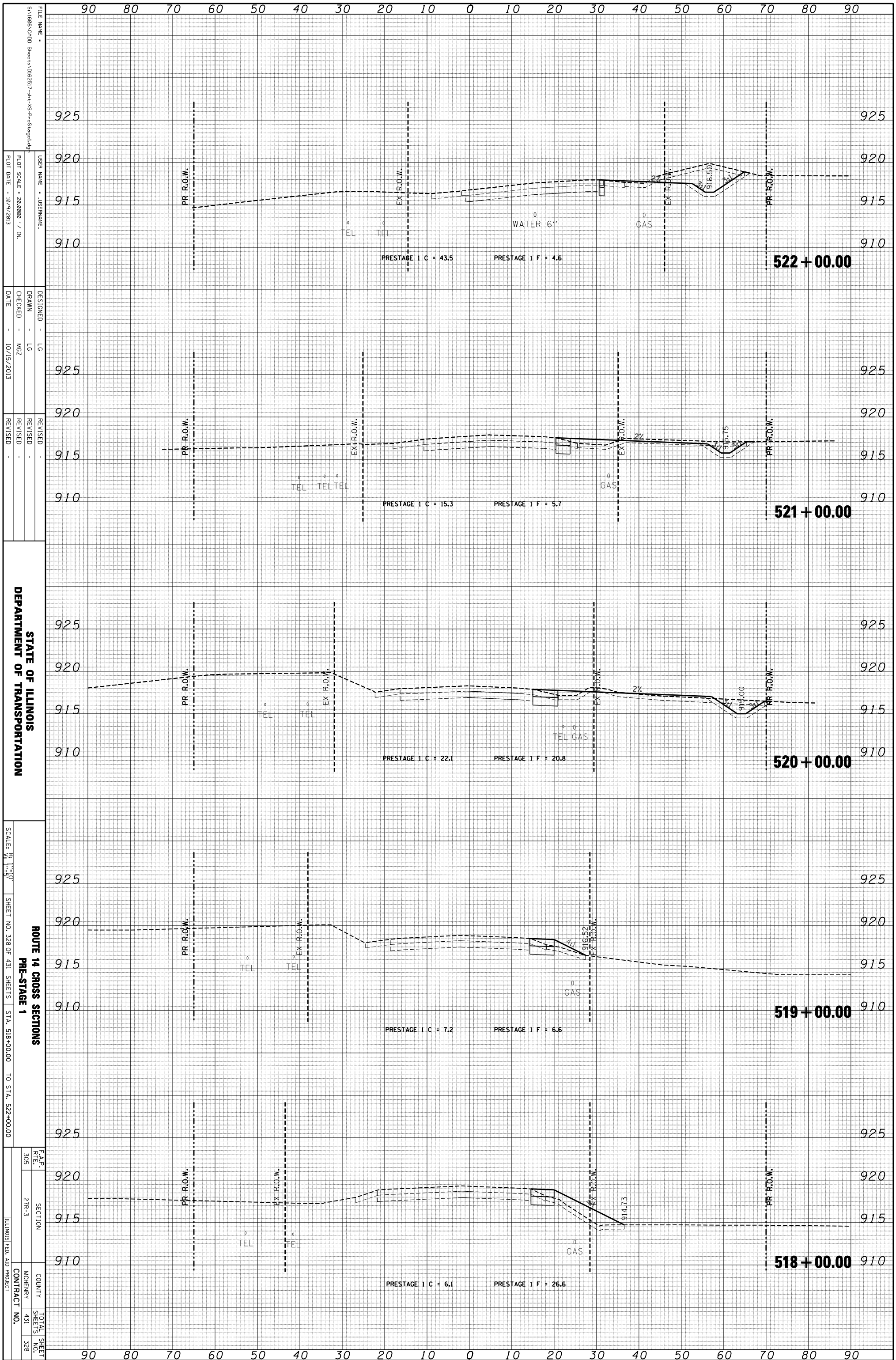
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
 PRE-STAGE 1  
 SCALE: 1" = 20'  
 SHEET NO. 327 OF 431 SHEETS STA. 513+00.00 TO STA. 517+00.00

F.A.P. R/L	SECTION	COUNTY	TOTAL SHEETS
305	2TR-3	MCHEMERY	431
			327
ILLINOIS FED. AID PROJECT			CONTRACT NO.

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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 PLOT SCALE = 28.0000 / IN.  
 PLOT DATE = 10/9/2013

DESIGNED - LG  
 DRAWN - LG  
 CHECKED - MZ  
 DATE - 10/15/2013

REVISOR -  
 REVISION -  
 REVISION -  
 REVISION -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
 PRE-STAGE 1

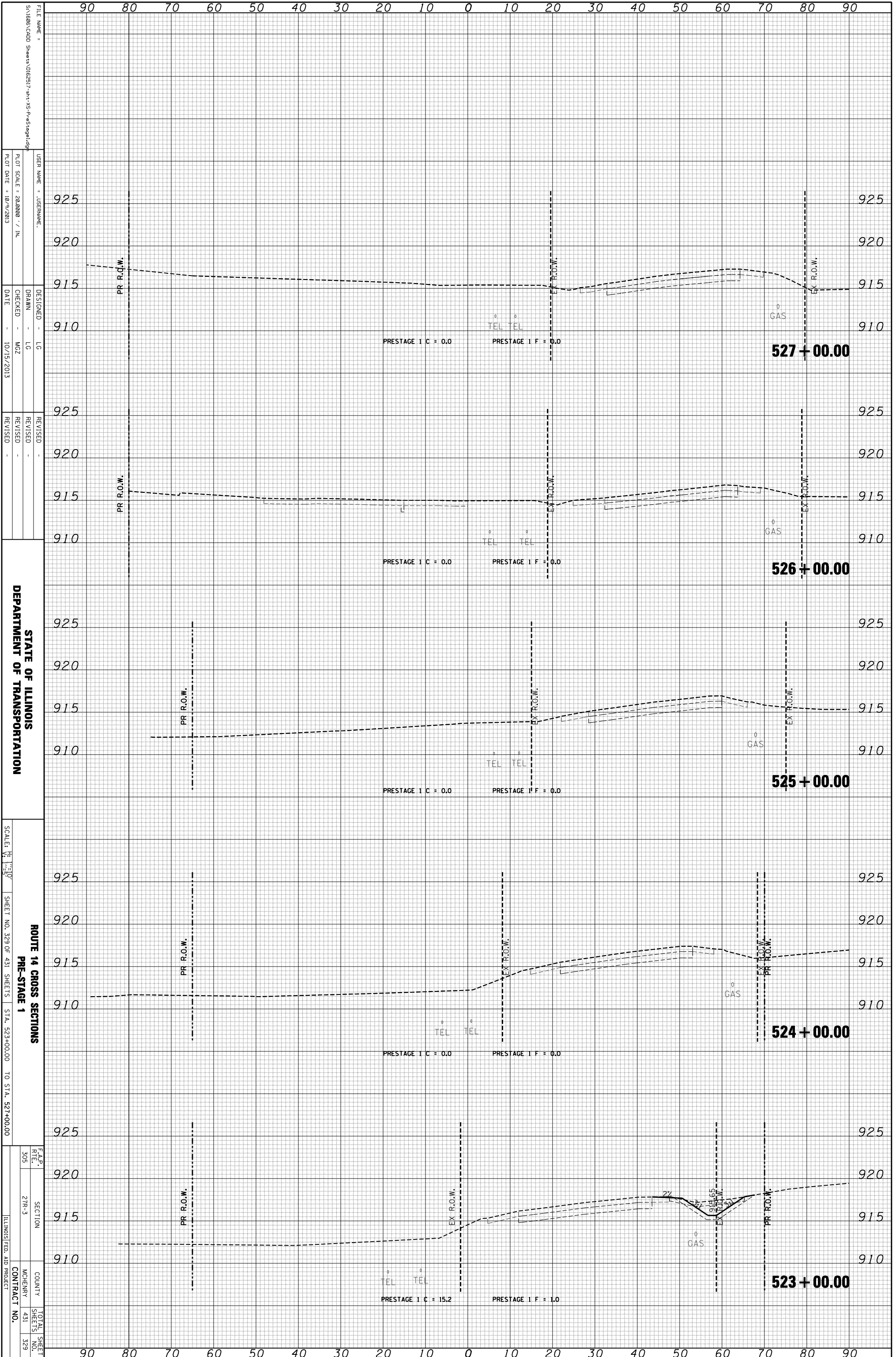
SCALE: 1" = 20'  
 SHEET NO. 328 OF 431 SHEETS STA. 518+00.00 TO STA. 522+00.00

F.A.P. REL. 305 SECTION 21R-3 COUNTY MCHENRY CONTRACT NO. 431 328

ILLINOIS FED. AID PROJECT

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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 PLOT DATE = 10/9/2013

REVISIONS  
 REVISION NO. | DATE | BY | DESCRIPTION

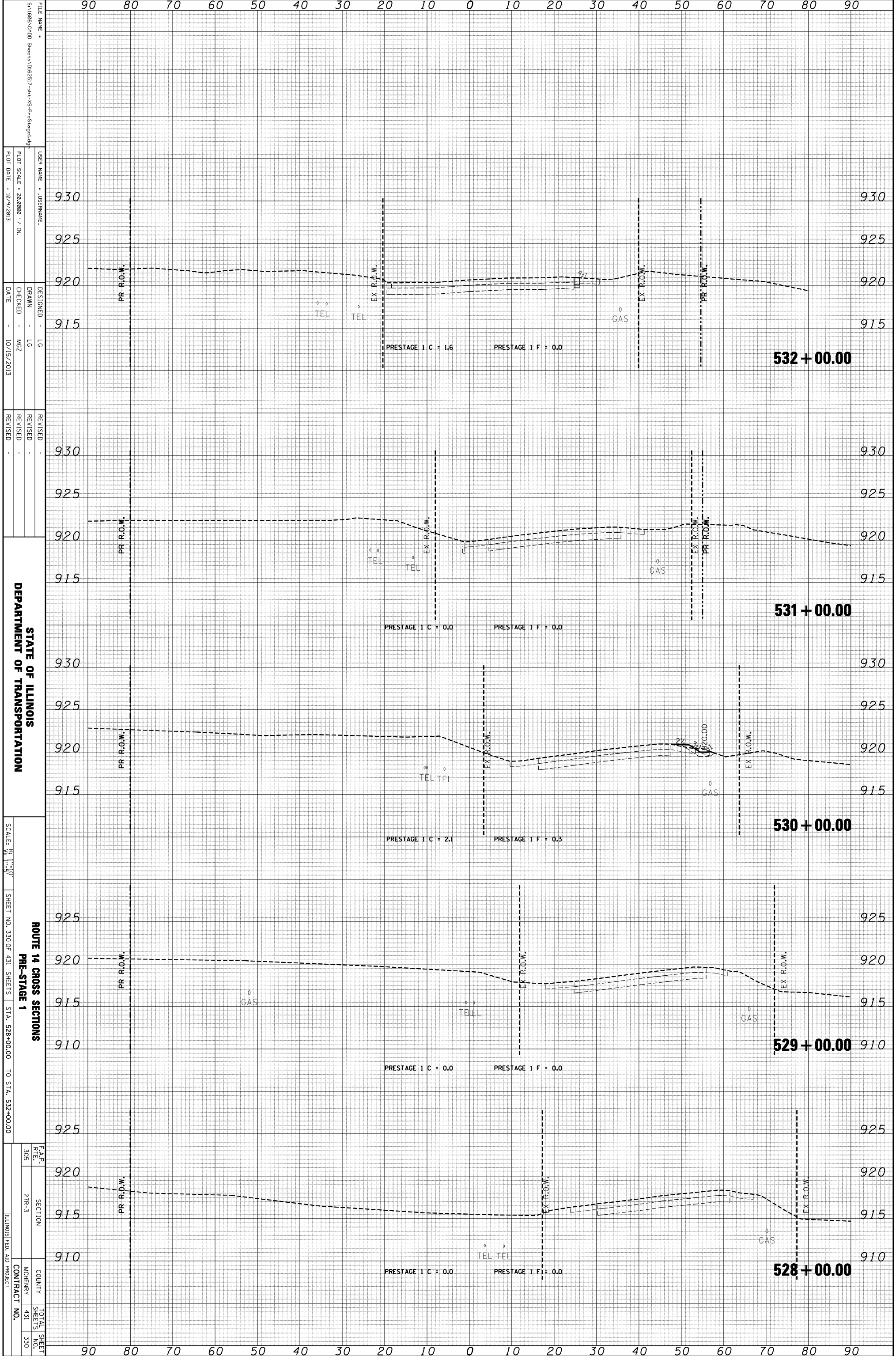
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 ROUTE 14 CROSS SECTIONS  
 PRE-STAGE 1  
 SCALE: 1" = 20'  
 SHEET NO. 329 OF 431 SHEETS  
 STA. 523+00.00 TO STA. 527+00.00

F.A.P. R/L	SECTION	COUNTY	TOTAL SHEET NO.
305	2TR-3	MCHEMERY	431
			329

ILLINOIS FED. AID PROJECT CONTRACT NO.

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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 PLOT DATE: 10/15/2013

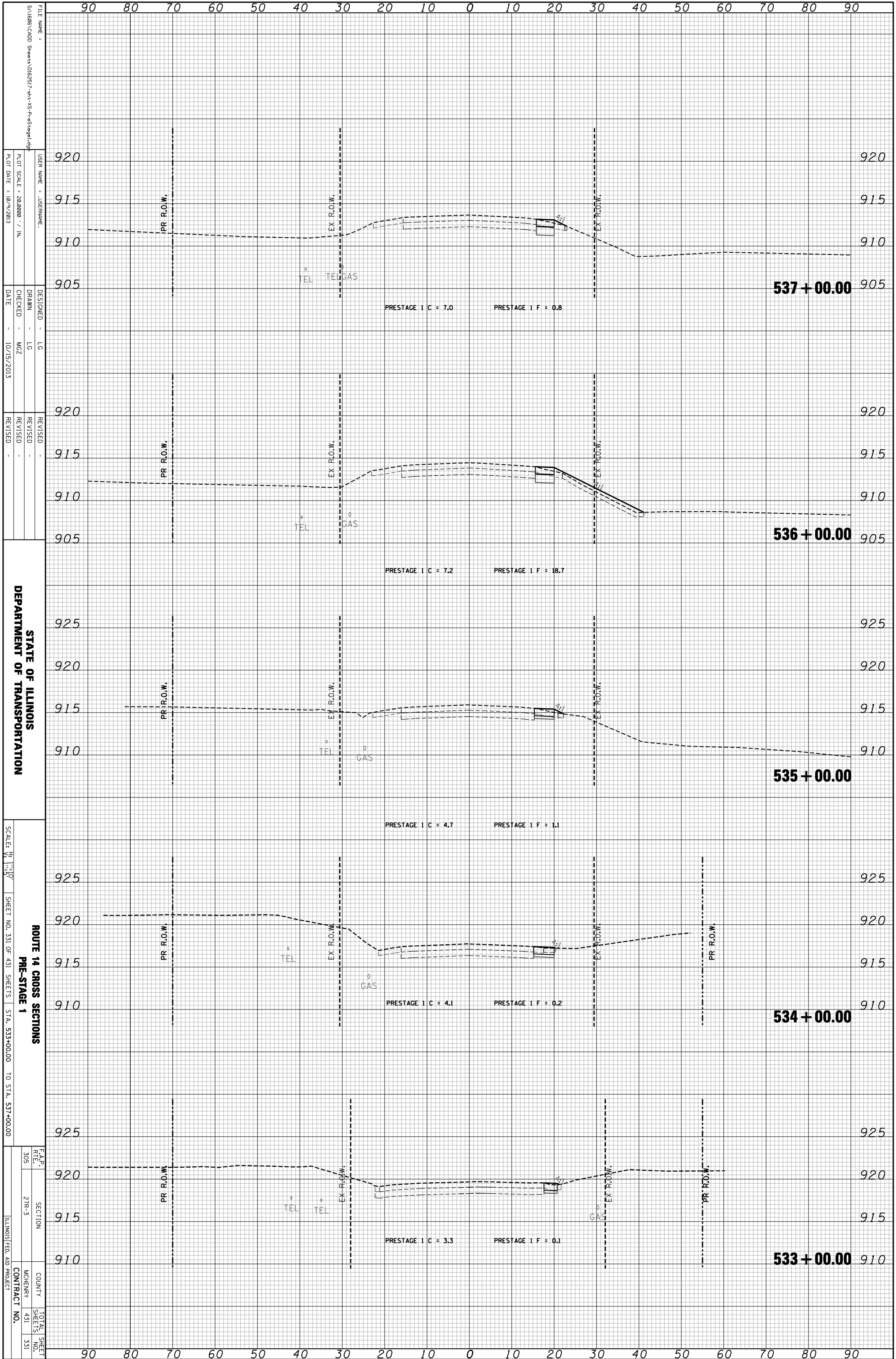
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
 PRE-STAGE 1  
 SCALE: 1" = 20'  
 SHEET NO. 330 OF 431 SHEETS  
 STA. 528+00.00 TO STA. 532+00.00

F.A.P. REL.	SECTION	COUNTY	TOTAL SHEET NO.
305	21R-3	MCHEMERY	431
			330
ILLINOIS FED. AID PROJECT		CONTRACT NO.	

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



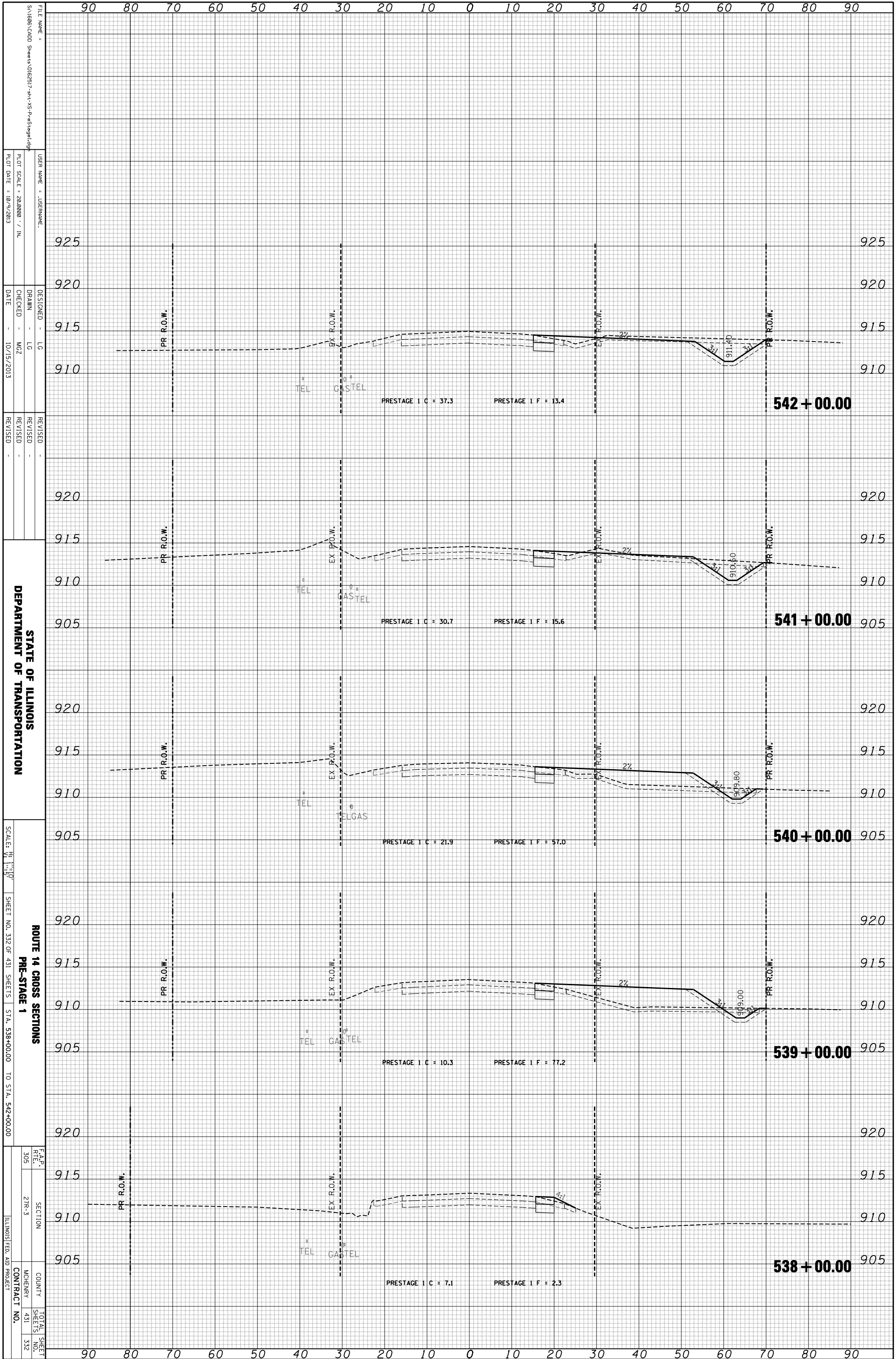
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
PRE-STAGE 1  
SCALE: 1" = 20'  
SHEET NO. 331 OF 431 SHEETS STA. 533+00.00 TO STA. 537+00.00

F.A.P. R.E.L.	SECTION	COUNTY	TOTAL SHEETS
305	21R-3	MCHEMERY	431
			331
ILLINOIS FED. AID PROJECT		CONTRACT NO.	

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



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 PLOT DATE = 10/9/2013

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

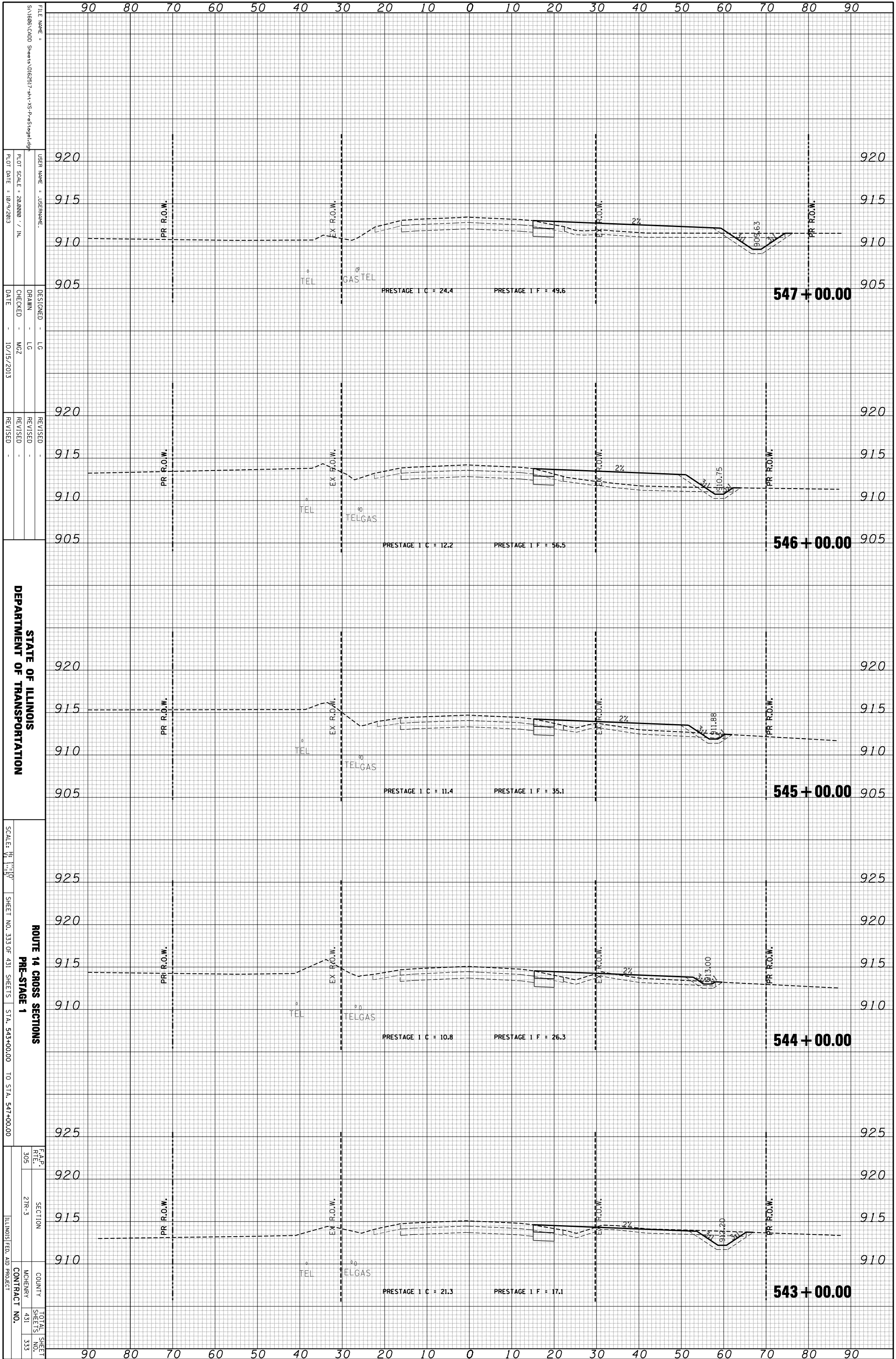
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 PRE-STAGE 1  
 SCALE: 1" = 10'  
 SHEET NO. 332 OF 431 SHEETS  
 STA. 538+00.00 TO STA. 542+00.00

F.A.P. REL.	SECTION	COUNTY	TOTAL SHEET NO.
305	2TR-3	MCHEMRY	431
			332
		CONTRACT NO.	
		ILLINOIS FED. AID PROJECT	



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



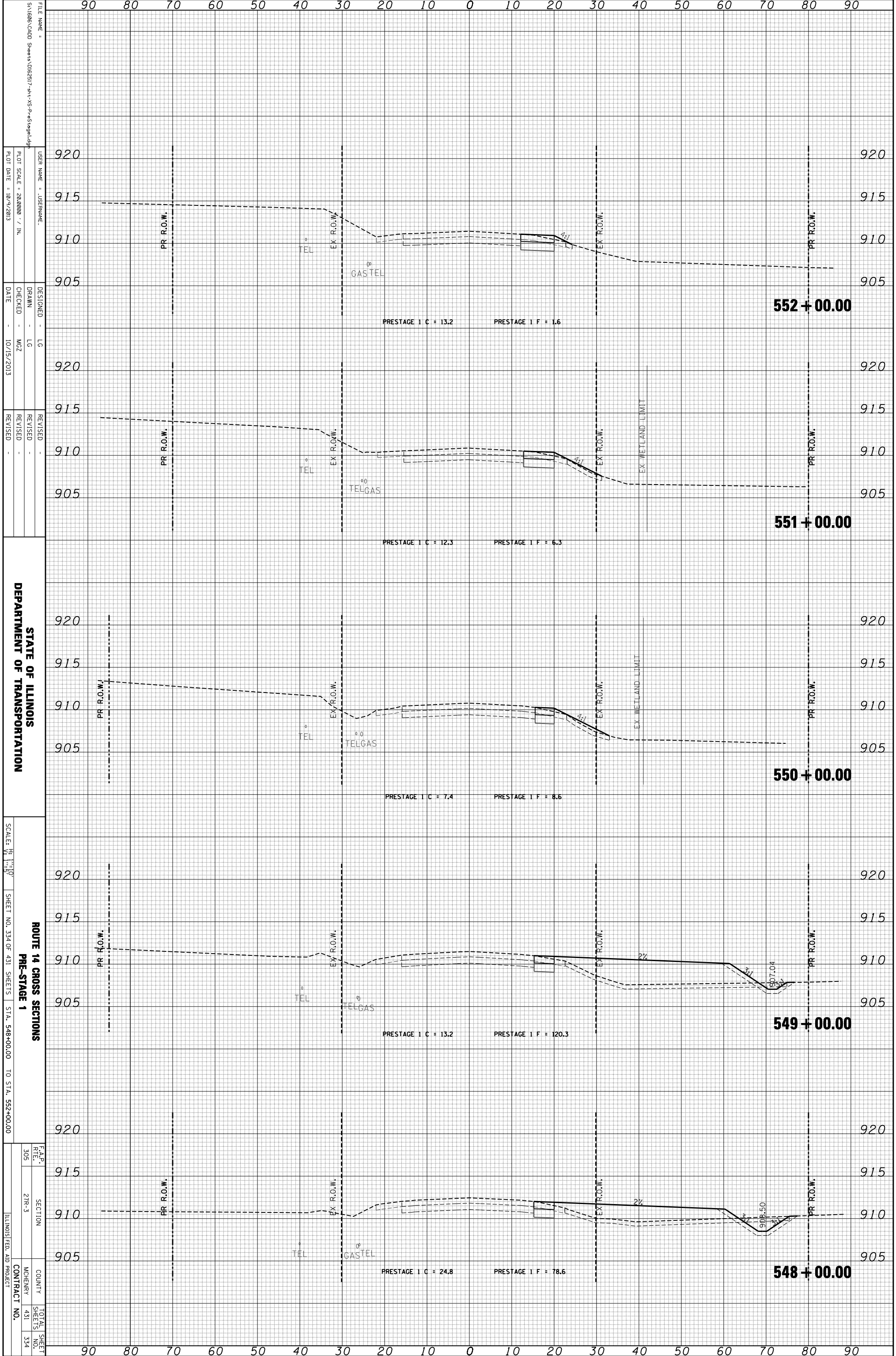
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
PRE-STAGE 1  
SCALE: 1" = 10'  
SHEET NO. 333 OF 431 SHEETS STA. 543+00.00 TO STA. 547+00.00

F.A.P. R.E.L.	SECTION	COUNTY	TOTAL SHEET NO.
305	2TR-3	MCHEMERY	431
			333
ILLINOIS FED. AID PROJECT CONTRACT NO.			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



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 PLOT DATE: 10/9/2013

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 DRAWN: LG  
 CHECKED: MZ  
 DATE: 10/15/2013

REVISIONS:  
 REVISION NO. 1: 10/15/2013

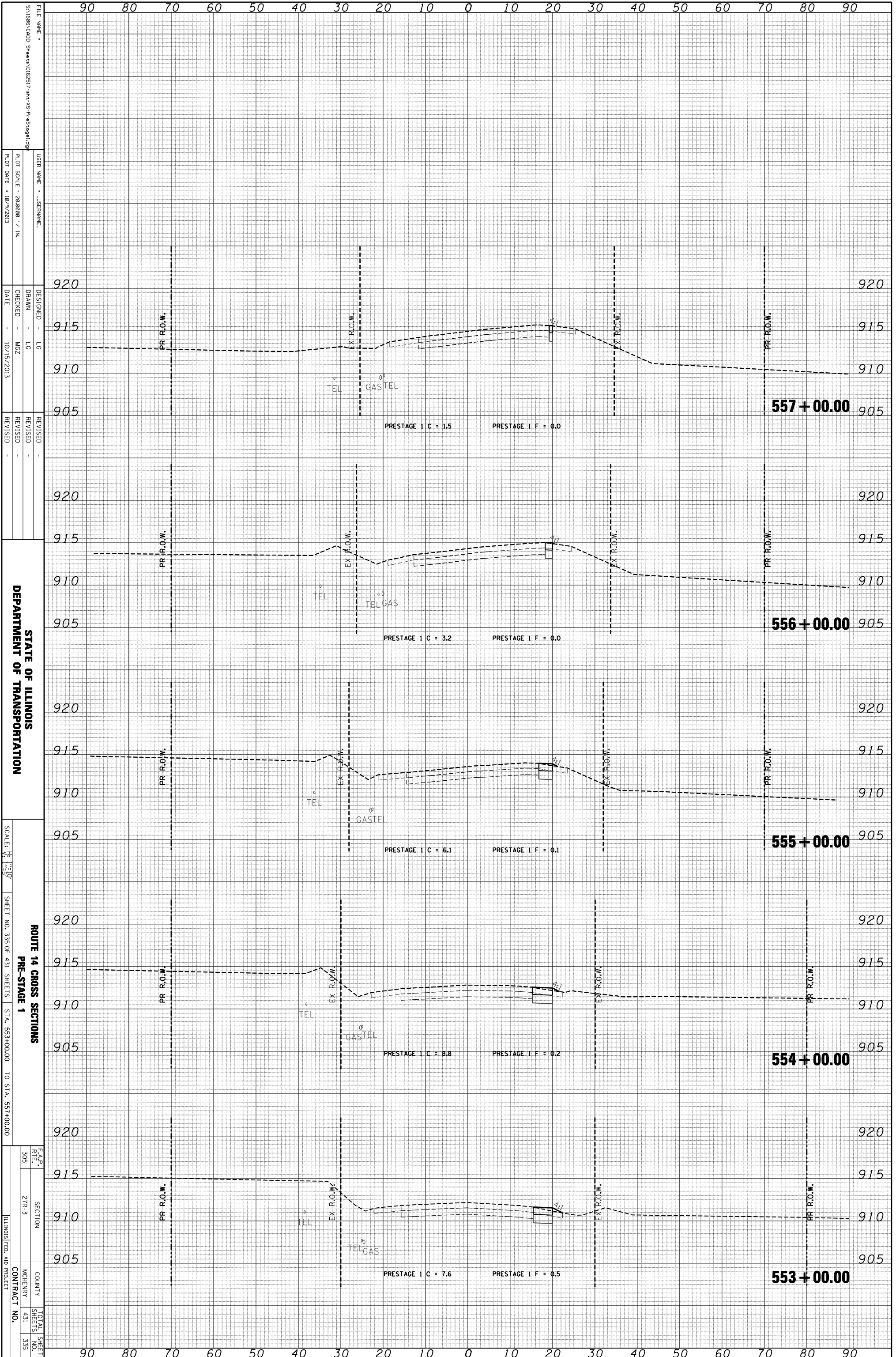
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
 PRE-STAGE 1  
 SCALE: 1" = 100'  
 SHEET NO. 334 OF 431 SHEETS | STA. 548+00.00 TO STA. 552+00.00

F.A.P. R.E.L.	SECTION	COUNTY	TOTAL SHEET NO.
305	2TR-3	MCHEMERY	431
			334
			CONTRACT NO.
			ILLINOIS FED. AID PROJECT

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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REVISIONS  
 REVISION NO. DATE DESCRIPTION

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

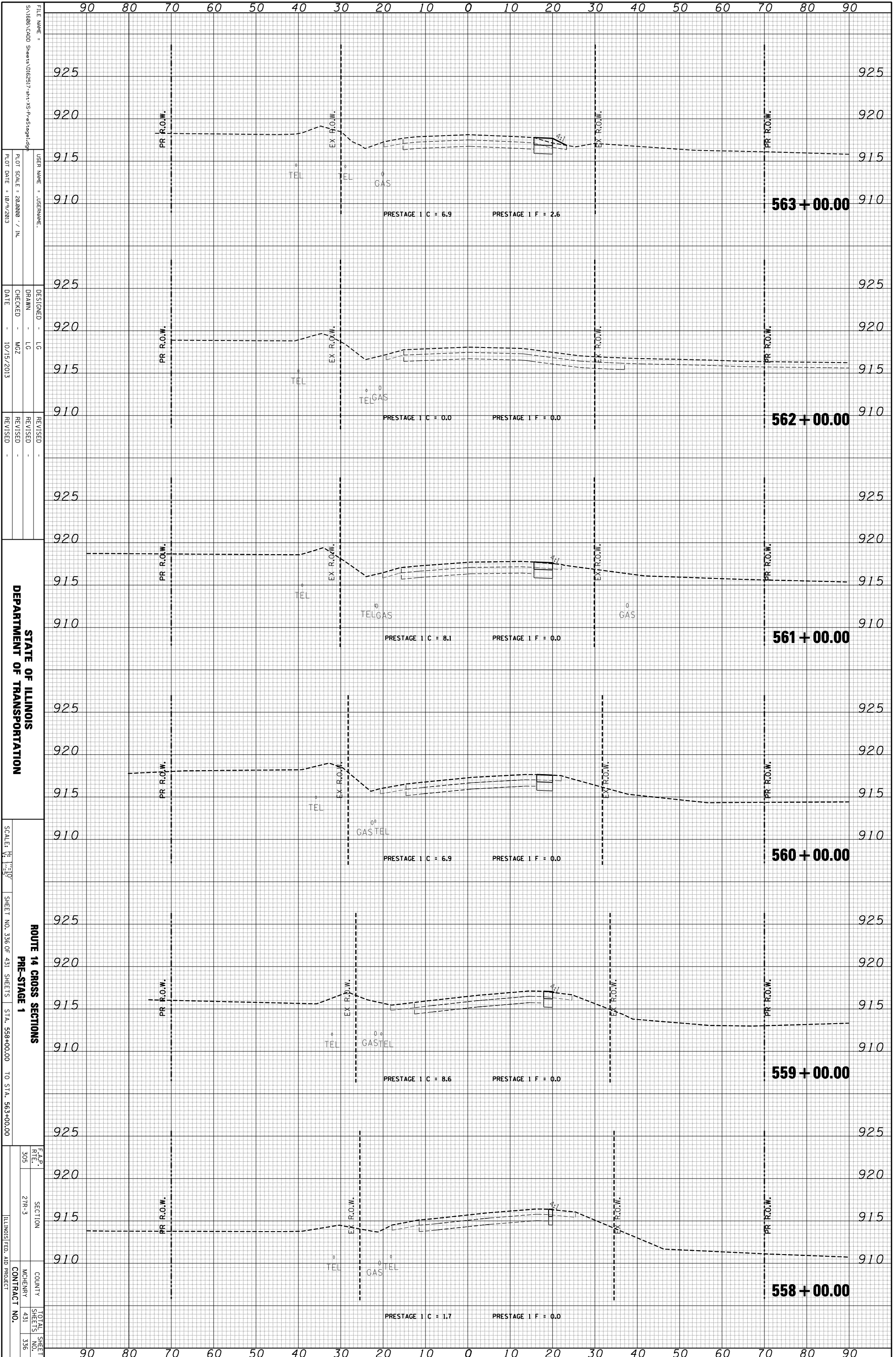
SCALE: HORIZONTAL 1" = 100'  
 VERTICAL 1" = 5'

ROUTE 14 CROSS SECTIONS  
 PRE-STAGE 1  
 SHEET NO. 335 OF 431 SHEETS  
 STA. 553+00.00 TO STA. 557+00.00

F.A.P. R.E.L.	SECTION	COUNTY	TOTAL SHEET NO.
305	2TR-3	MCHEMERY	431
ILLINOIS FED. AID PROJECT		CONTRACT NO.	335

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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 PLOT DATE = 10/9/2013

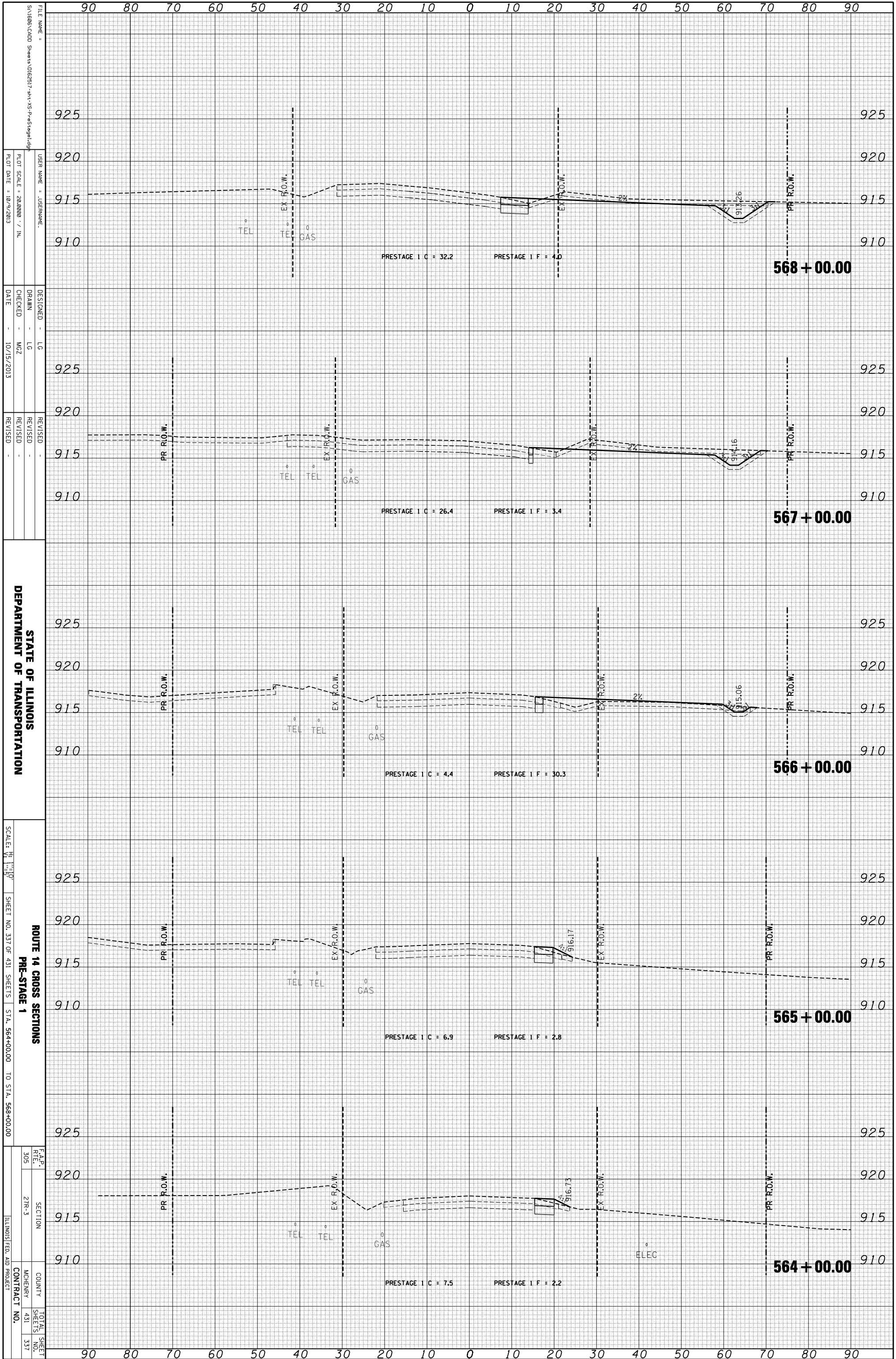
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
 PRE-STAGE 1  
 SCALE: 1" = 100'  
 SHEET NO. 336 OF 431 SHEETS STA. 558+00.00 TO STA. 563+00.00

F.A.P. R.E.L.	SECTION	COUNTY	TOTAL SHEET NO.
305	21R-3	MCHEMERY	431
			336
ILLINOIS FED. AID PROJECT		CONTRACT NO.	

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
PRE-STAGE 1  
SCALE: 1" = 10'  
SHEET NO. 337 OF 431 SHEETS STA. 564+00.00 TO STA. 568+00.00

F.A.P. R/L	SECTION	COUNTY	TOTAL SHEETS
305	2R-3	MCHEMERY	431
			337
ILLINOIS FED. AID PROJECT			CONTRACT NO.

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		MZ
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		10/15/2013
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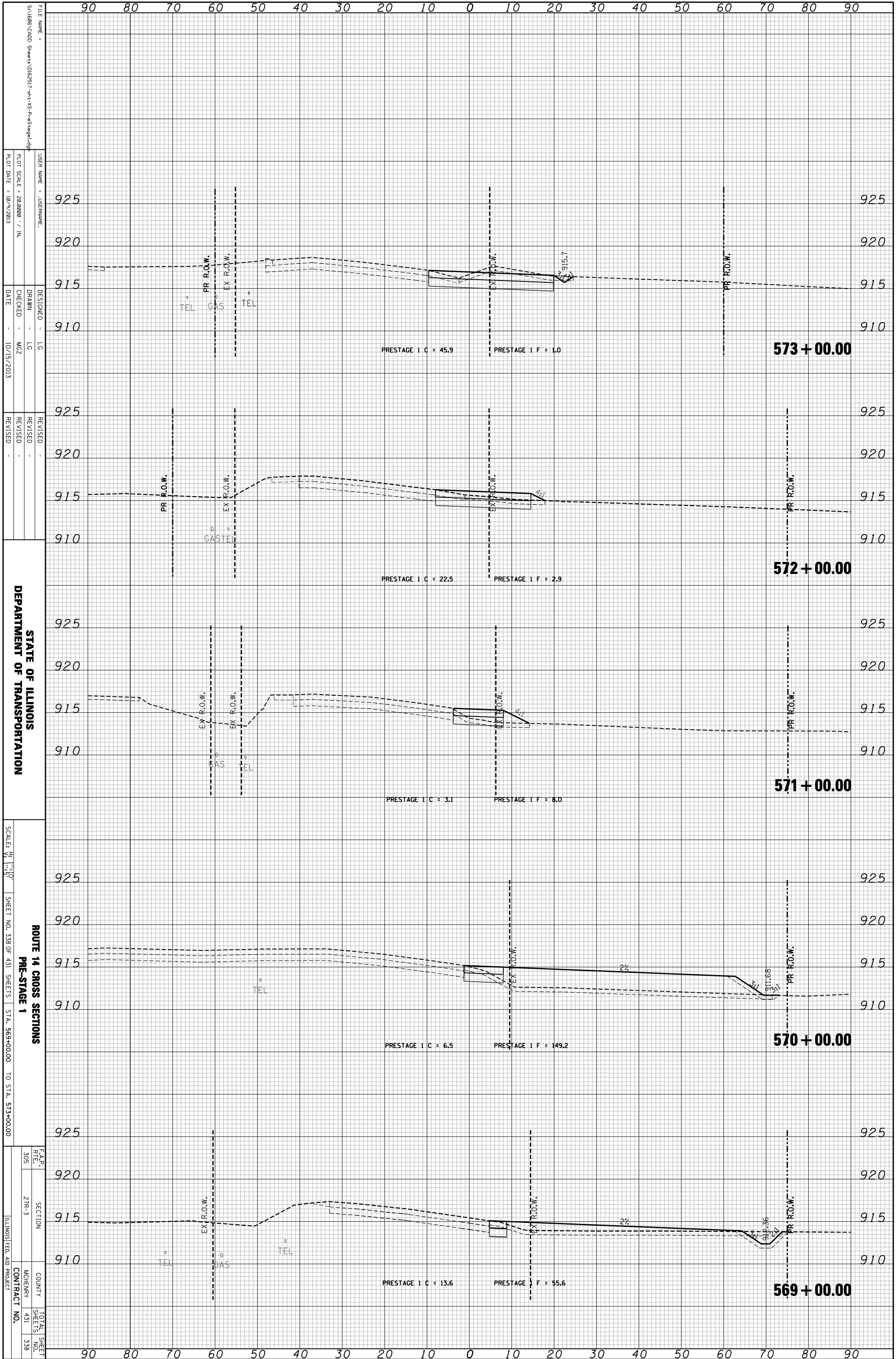
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		CHECKED -
		MZ
		DATE -
		10/15/2013
		REVISOR -
		REVISOR -
		REVISOR -

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		MZ
		DATE -
		10/15/2013
		REVISOR -
		REVISOR -
		REVISOR -

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		MZ
		DATE -
		10/15/2013
		REVISOR -
		REVISOR -
		REVISOR -

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
PRE-STAGE 1  
SCALE: 1" = 10'  
SHEET NO. 338 OF 431 SHEETS STA. 569+00.00 TO STA. 573+00.00

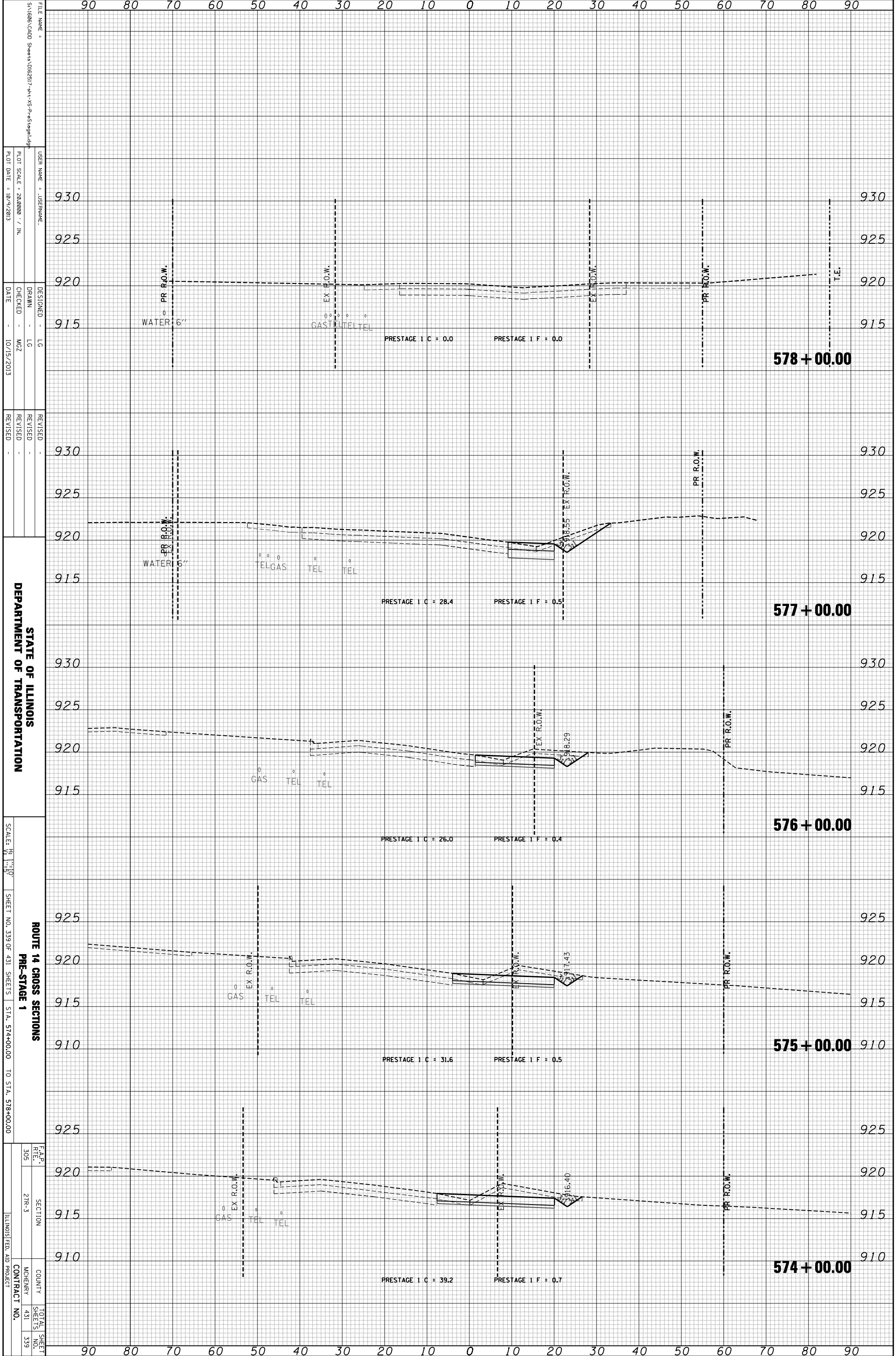
F.A.P. R.E.L.	SECTION	COUNTY	TOTAL SHEET NO.
305	21R-3	MCHEMERY	431
		CONTRACT NO.	338
		ILLINOIS FED. AID PROJECT	

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		LG	
		CHECKED -	REVISIONS
		MZ	
		DATE -	REVISIONS
		10/15/2013	

PLLOT SCALE =	PLLOT DATE =
28.0000 / IN.	10/9/2013

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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 CHECKED - MZ  
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 REVISIONS

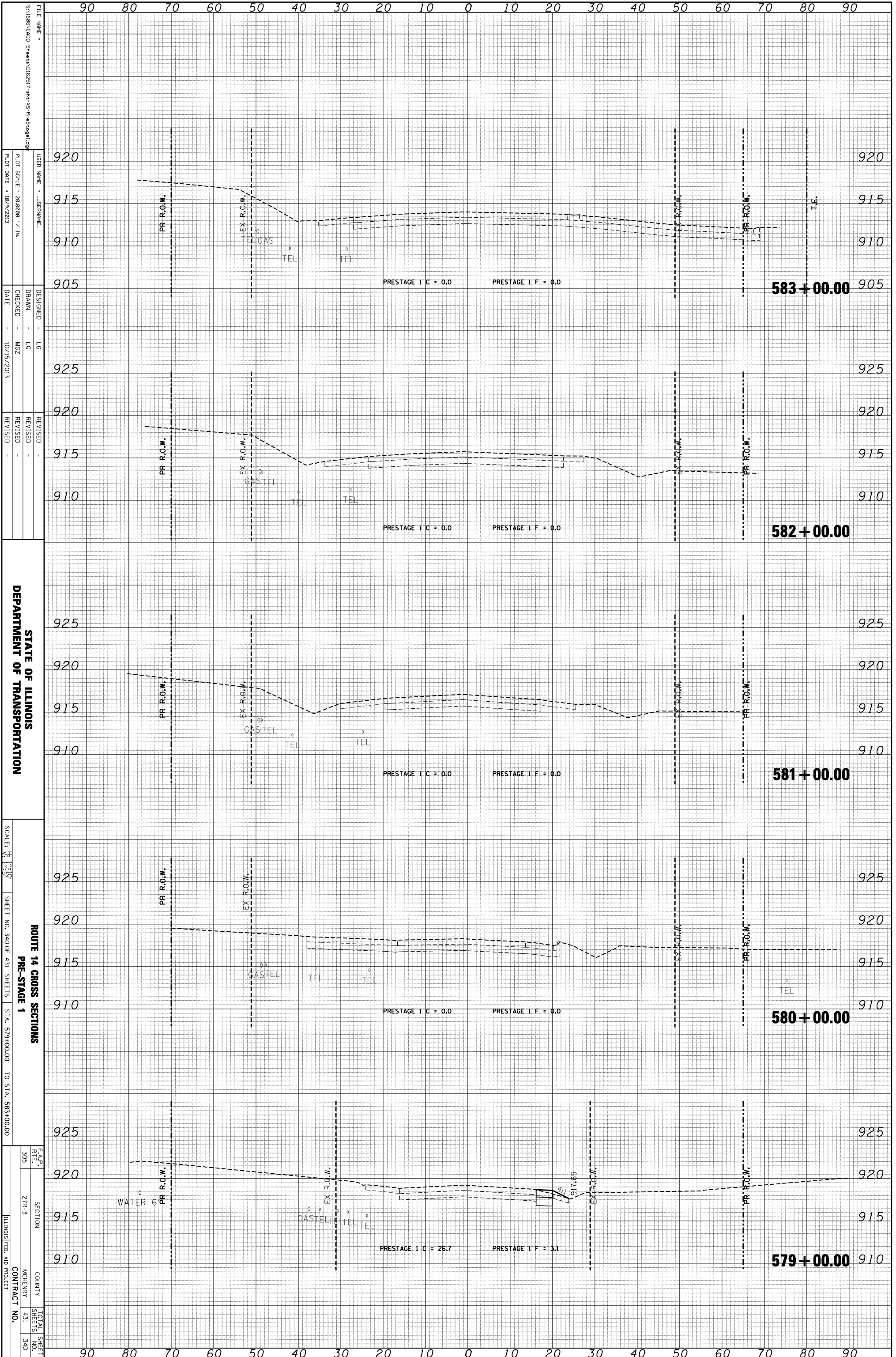
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
 PRE-STAGE 1  
 SCALE: 1" = 20'  
 SHEET NO. 339 OF 431 SHEETS  
 STA. 574+00.00 TO STA. 578+00.00

F.A.P. REL.	SECTION	COUNTY	TOTAL SHEET NO.
305	2TR-3	MCHEMERY	431
		CONTRACT NO.	339
		ILLINOIS FED. AID PROJECT	

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ROUTE 14 CROSS SECTIONS**  
**PRE-STAGE 1**

SCALE: 1" = 20'	SHEET NO. 340 OF 431 SHEETS	STA. 579+00.00 TO STA. 583+00.00
F.A.P. R.E.L. 305	SECTION 21R-3	TOTAL SHEET NO. 340
ILLINOIS FED. AID PROJECT		COUNTY MCHENRY 431
CONTRACT NO.		

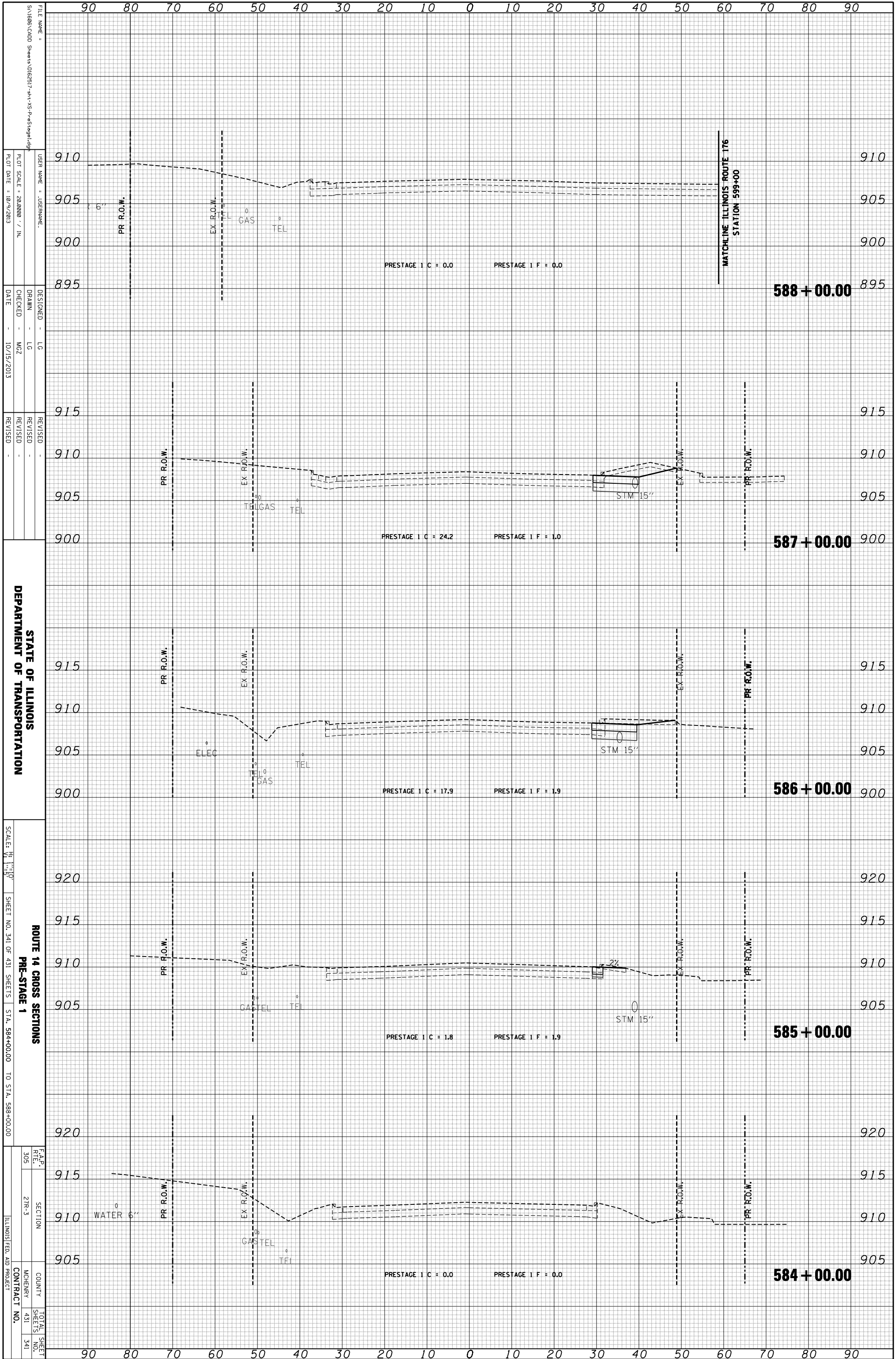
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PLLOT SCALE = 28,000 / IN.	DATE = 10/15/2013
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



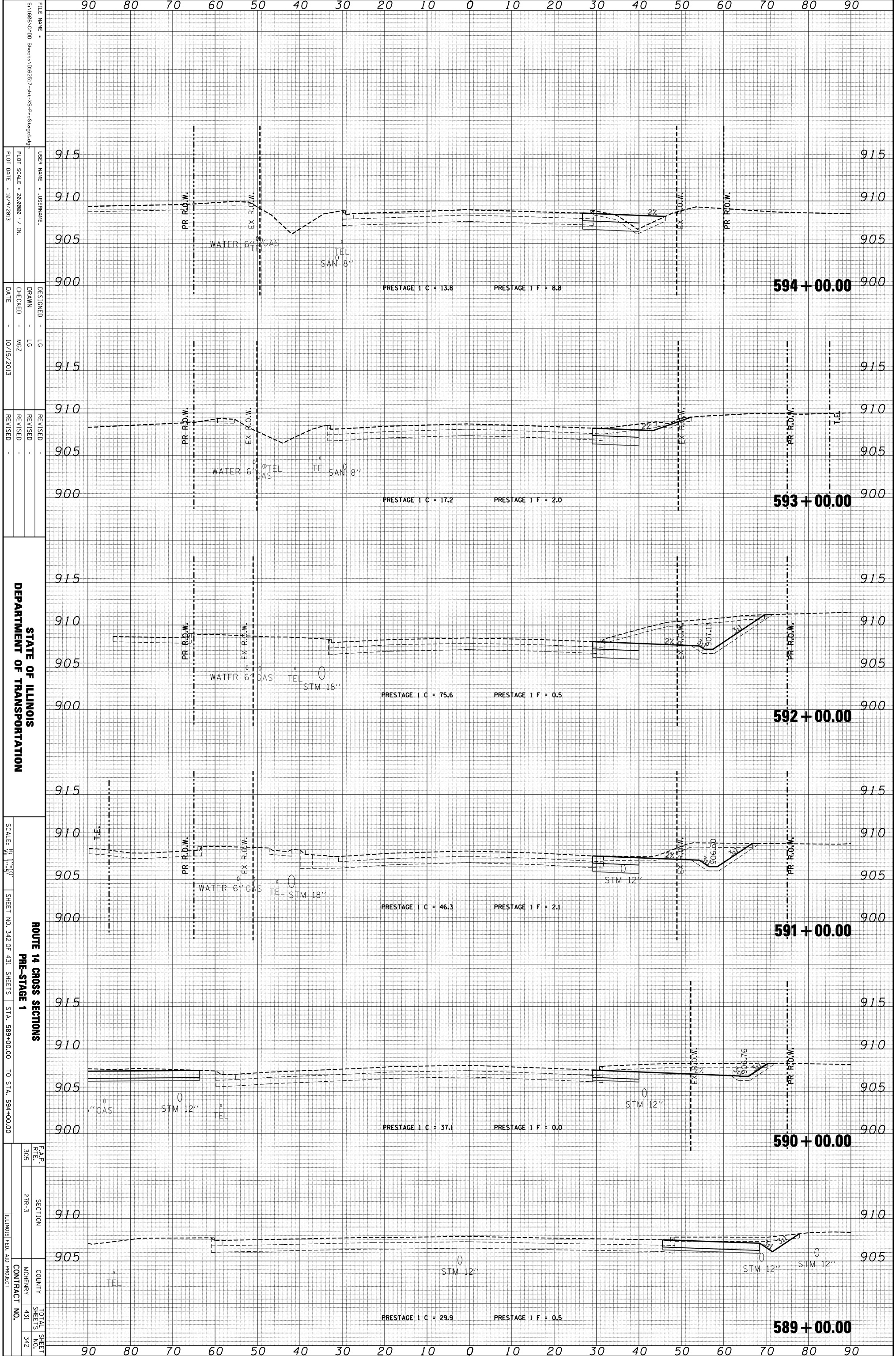
DEPARTMENT OF TRANSPORTATION  
 STATE OF ILLINOIS

ROUTE 14 CROSS SECTIONS  
 PRE-STAGE 1  
 SCALE: 1" = 10'  
 SHEET NO. 341 OF 431 SHEETS  
 STA. 584+00.00 TO STA. 588+00.00

F.A.P. R/L	SECTION	COUNTY	TOTAL SHEETS
305	21R-3	MCHENNY	431
ILLINOIS FED. AID PROJECT			CONTRACT NO.
			341

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
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 DRAWN - LG  
 CHECKED - MZ  
 DATE - 10/15/2013

REVISOR -  
 REVISION -  
 REVISION -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
 PRE-STAGE 1

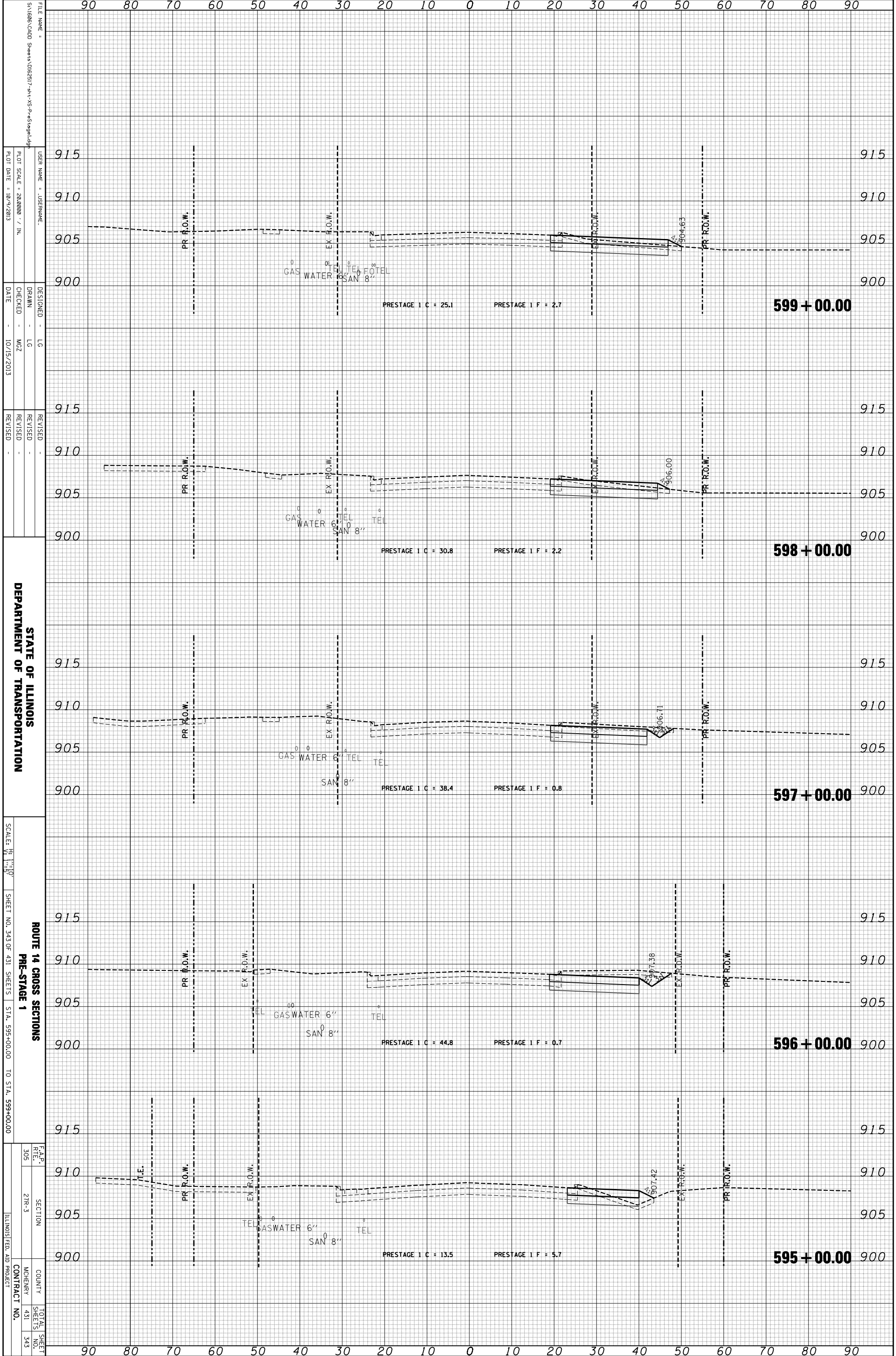
SCALE: HORIZ. 1" = 50'  
 SHEET NO. 342 OF 431 SHEETS STA. 589+00.00 TO STA. 594+00.00

F.A.P. R.E.L. SECTION COUNTY TOTAL SHEETS SHEET NO.  
 305 2TR-3 MCHENRY 431 342

ILLINOIS FED. AID PROJECT CONTRACT NO.

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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REVISIONS:  
 REVISION NO. | DATE | BY | DESCRIPTION

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

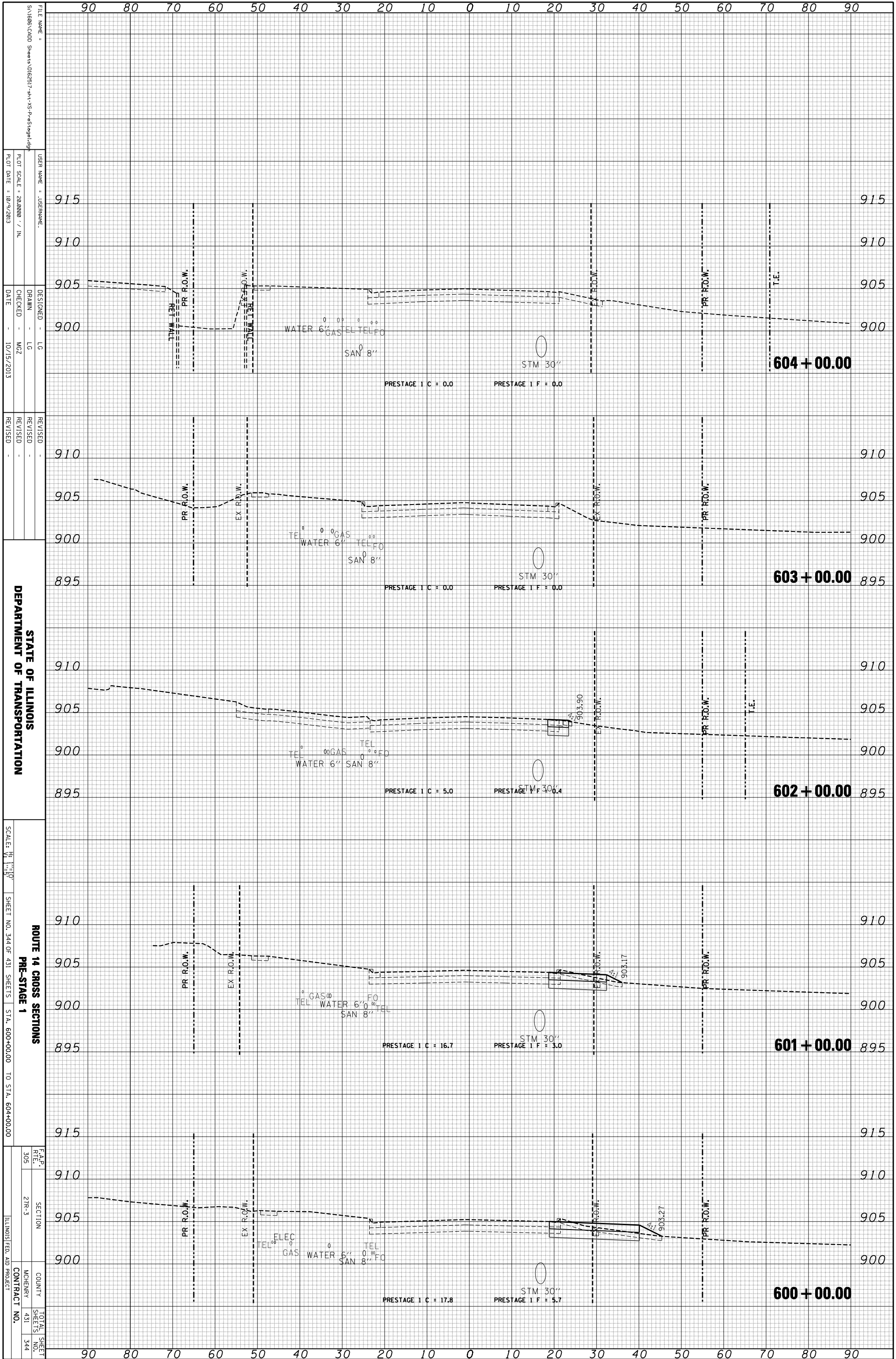
ROUTE 14 CROSS SECTIONS  
 PRE-STAGE 1  
 SCALE: 1" = 100'  
 SHEET NO. 343 OF 431 SHEETS  
 STA. 595+00.00 TO STA. 599+00.00

F.A.P. REL.	SECTION	COUNTY	TOTAL SHEET NO.
305	21R-3	MCHEMERY	431
			343

ILLINOIS FED. AID PROJECT  
 CONTRACT NO.

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

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



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 REVISIONS:  
 REVISION NO. DESCRIPTION DATE  
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 2  
 3

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
 PRE-STAGE 1

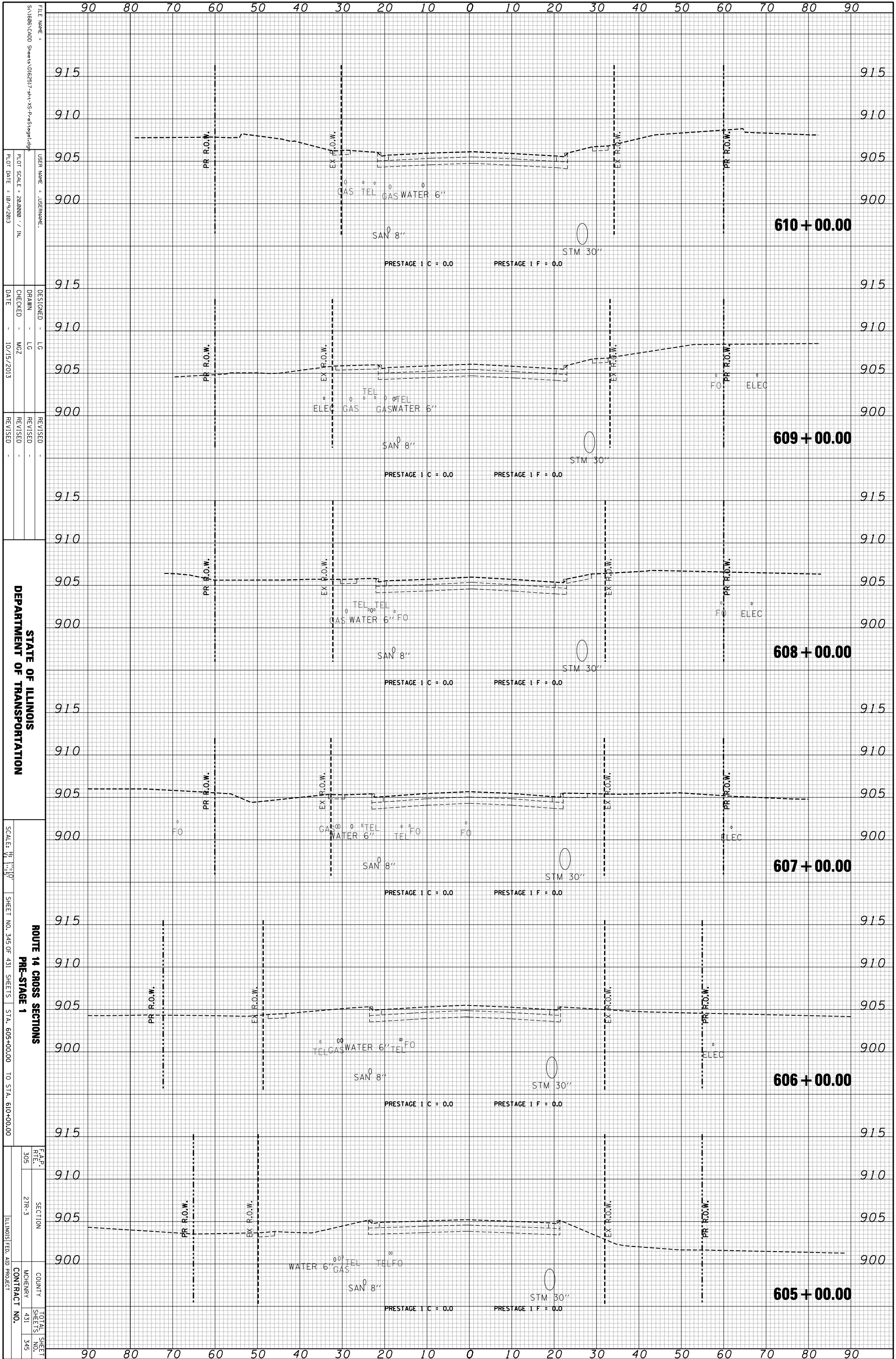
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 SHEET NO. 344 OF 431 SHEETS STA. 600+00.00 TO STA. 604+00.00

F.A.P. R/L	SECTION	COUNTY	TOTAL SHEETS
305	21R-3	MCHEMERY	431
			344

ILLINOIS FED. AID PROJECT CONTRACT NO.

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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 CHECKED = MZ  
 DATE = 10/15/2013  
 PLOT SCALE = 28,0000 / IN.  
 PLOT DATE = 10/9/2013

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE: 1" = 10'  
 SHEET NO. 345 OF 431 SHEETS  
 STA. 605+00.00 TO STA. 610+00.00

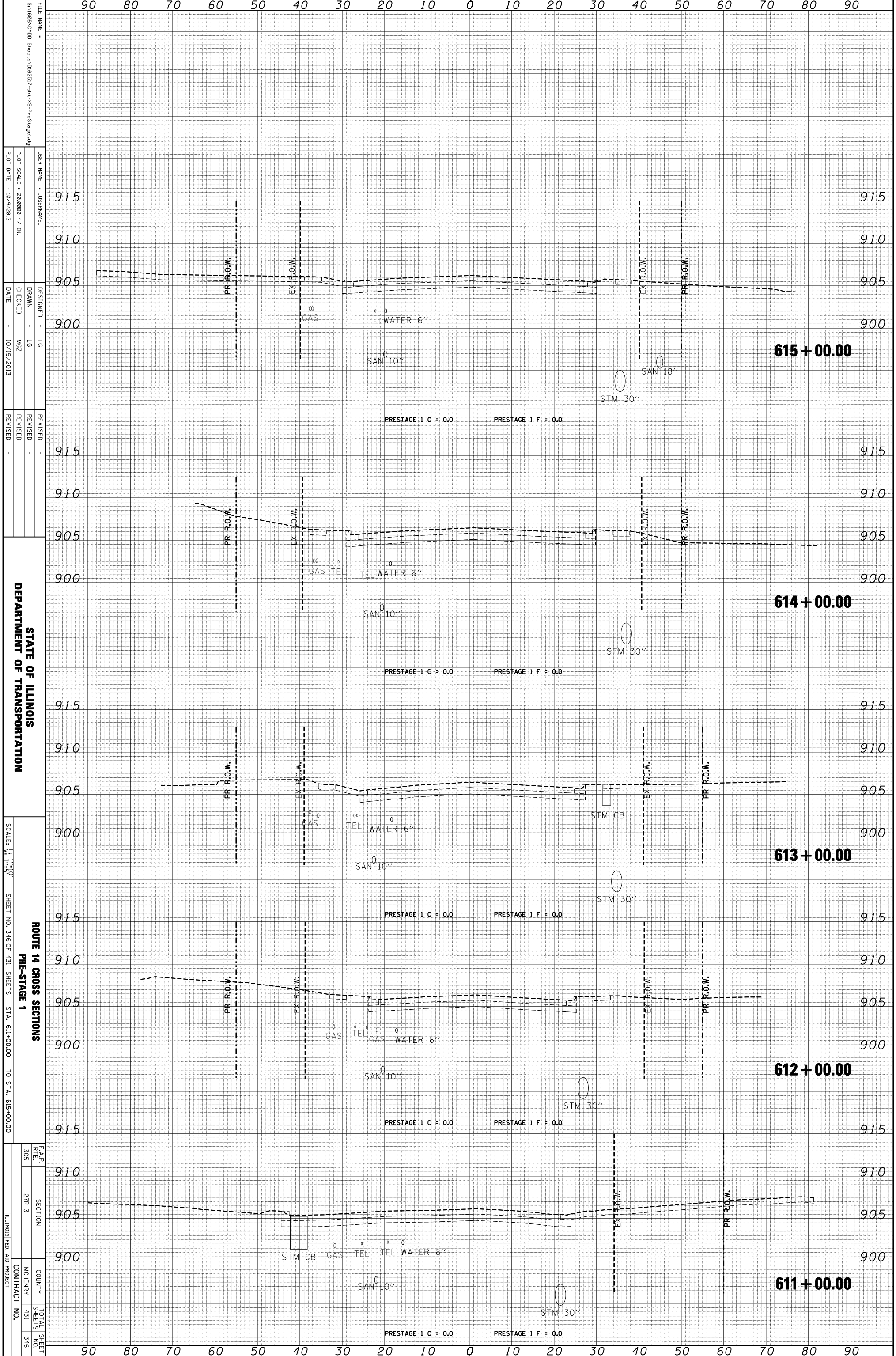
ROUTE 14 CROSS SECTIONS  
 PRE-STAGE 1

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS
305	21R-3	MCHEMERY	431
			345

ILLINOIS FED. AID PROJECT CONTRACT NO.

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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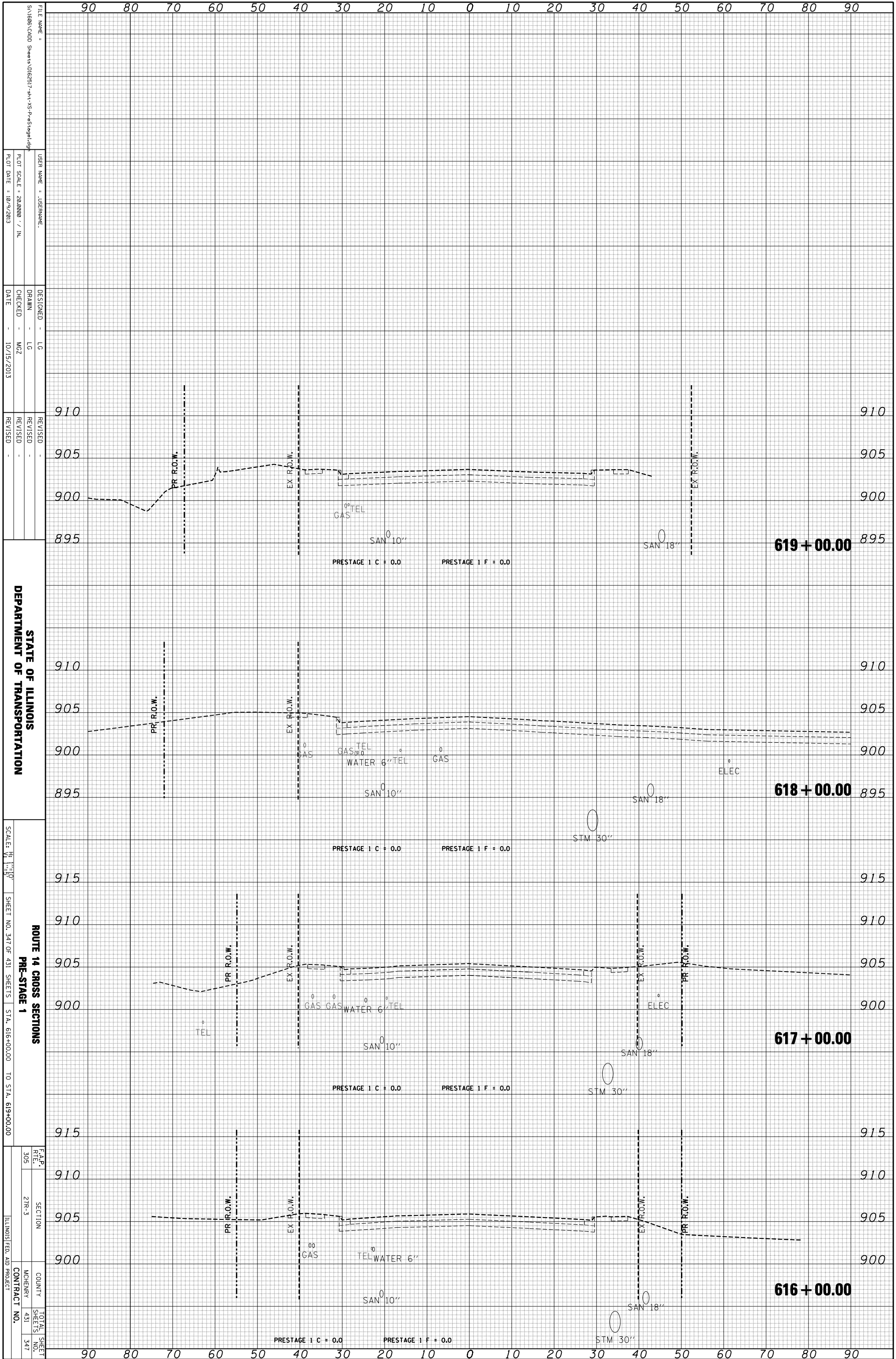
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 SCALE: 1" = 10'  
 SHEET NO. 346 OF 431 SHEETS  
 STA. 611+00.00 TO STA. 615+00.00

ROUTE 14 CROSS SECTIONS  
 PRE-STAGE 1  
 F.A.P. R/L SECTION COUNTY TOTAL SHEETS NO. CONTRACT NO.  
 305 2TR-3 MCHEMERY 431 346  
 ILLINOIS FED. AID PROJECT

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



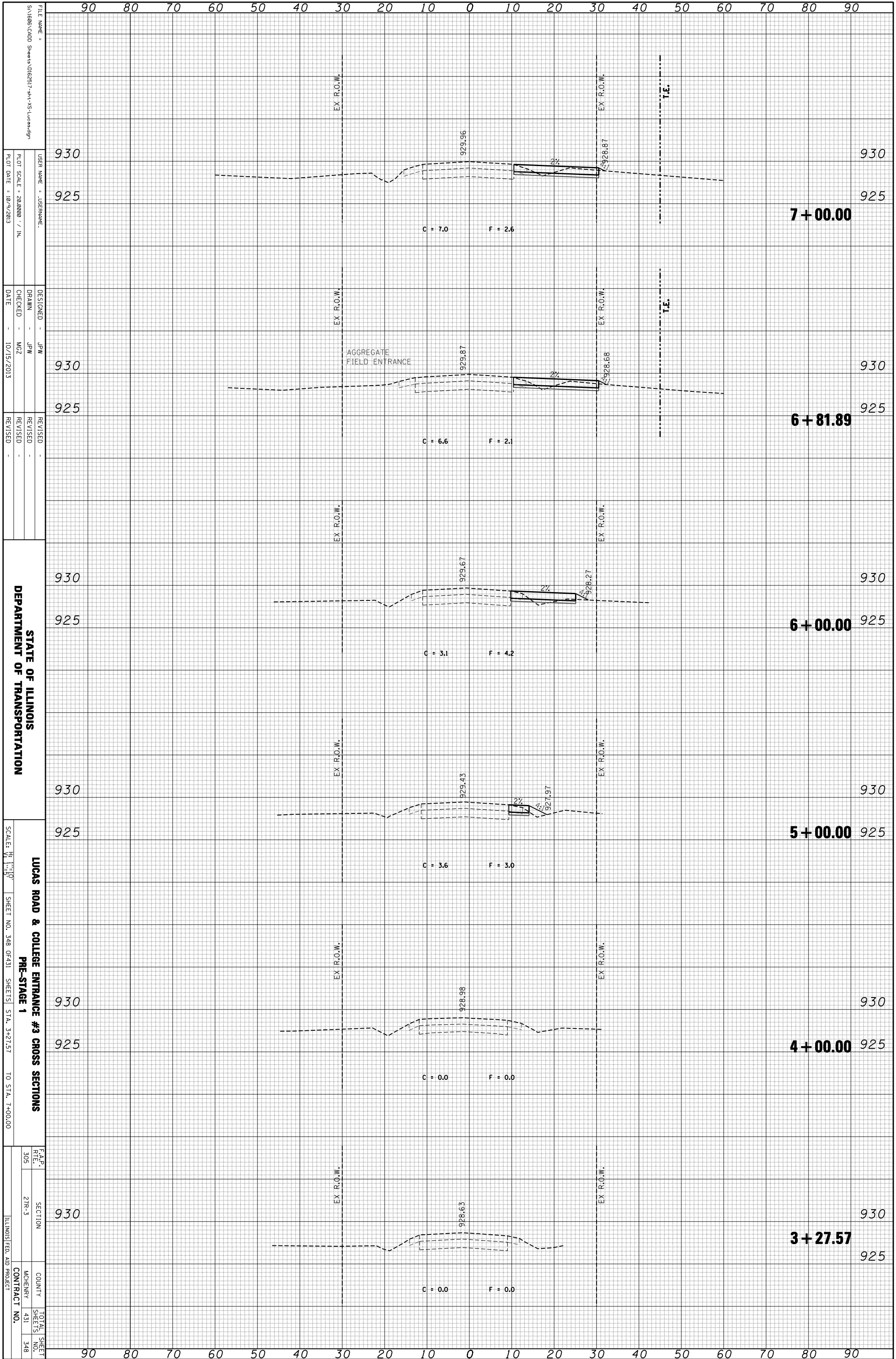
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
 PRE-STAGE 1  
 SCALE: 1" = 10'  
 SHEET NO. 347 OF 431 SHEETS STA. 616+00.00 TO STA. 619+00.00

F.A.P. R.E.L.	SECTION	COUNTY	TOTAL SHEETS
305	21R-3	MCHEMERY	347
CONTRACT NO.			431
ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



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 REVISIONS:  
 REVISION NO. | DATE | BY | DESCRIPTION

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

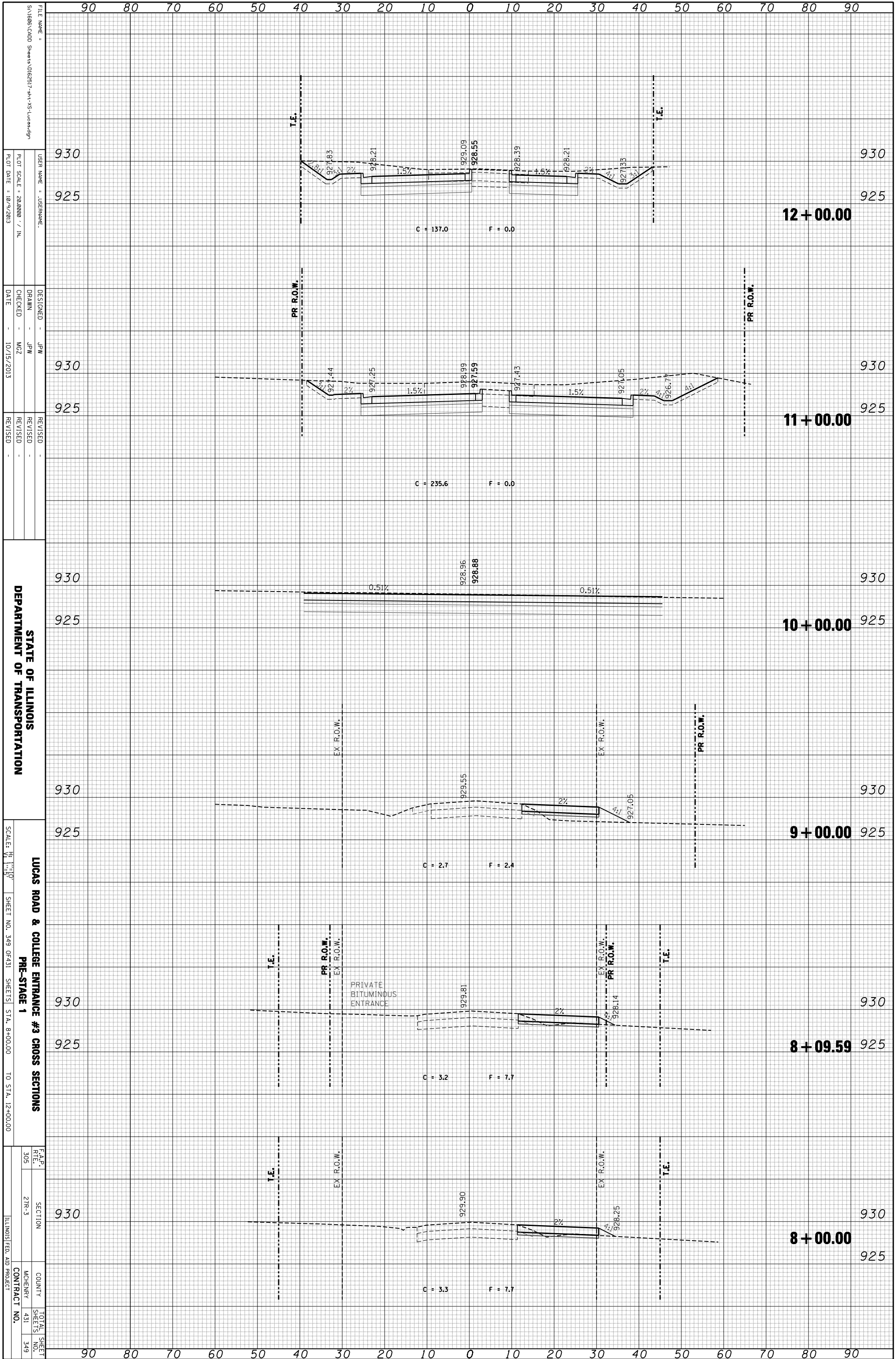
LUCAS ROAD & COLLEGE ENTRANCE #3 CROSS SECTIONS  
 PRE-STAGE 1  
 SCALE: 1" = 10'  
 SHEET NO. 348 OF 431 SHEETS STA. 3+27.57 TO STA. 7+00.00

F.A.P. R.E.	SECTION	COUNTY	TOTAL SHEET NO.
305	2TR-3	MCHEMERY	431
CONTRACT NO.		348	
ILLINOIS FED. AID PROJECT			



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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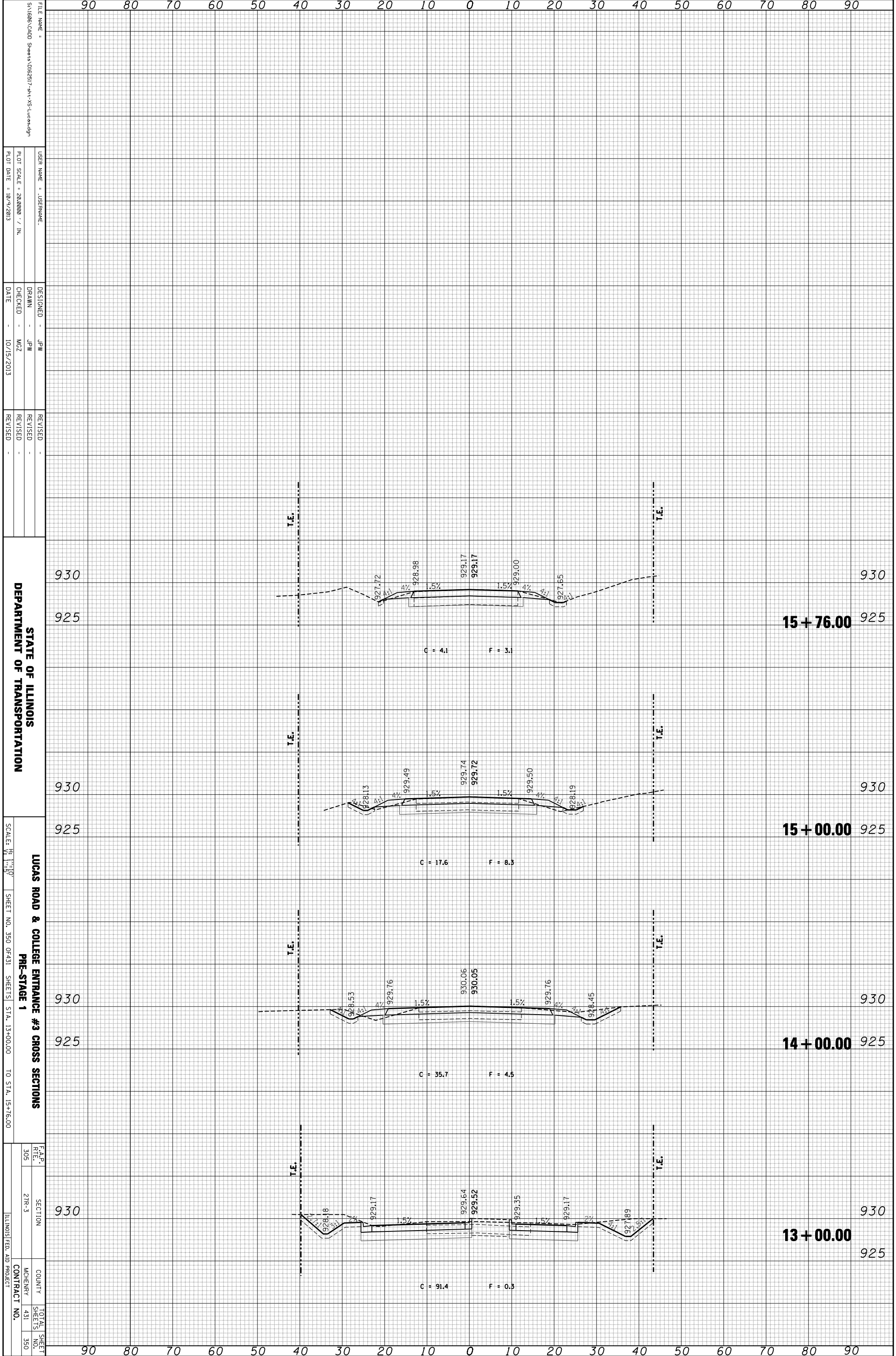
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

LUCAS ROAD & COLLEGE ENTRANCE #3 CROSS SECTIONS  
 PRE-STAGE 1  
 SCALE: 1" = 10'  
 SHEET NO. 349 OF 431 SHEETS STA. 8+00.00 TO STA. 12+00.00

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS
305	2TR-3	MCHEMERY	349
CONTRACT NO.		431	
ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



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 DRAWN - JPM  
 CHECKED - MZ  
 DATE - 10/15/2013

REVISIONS  
 REVISION NO. DATE BY

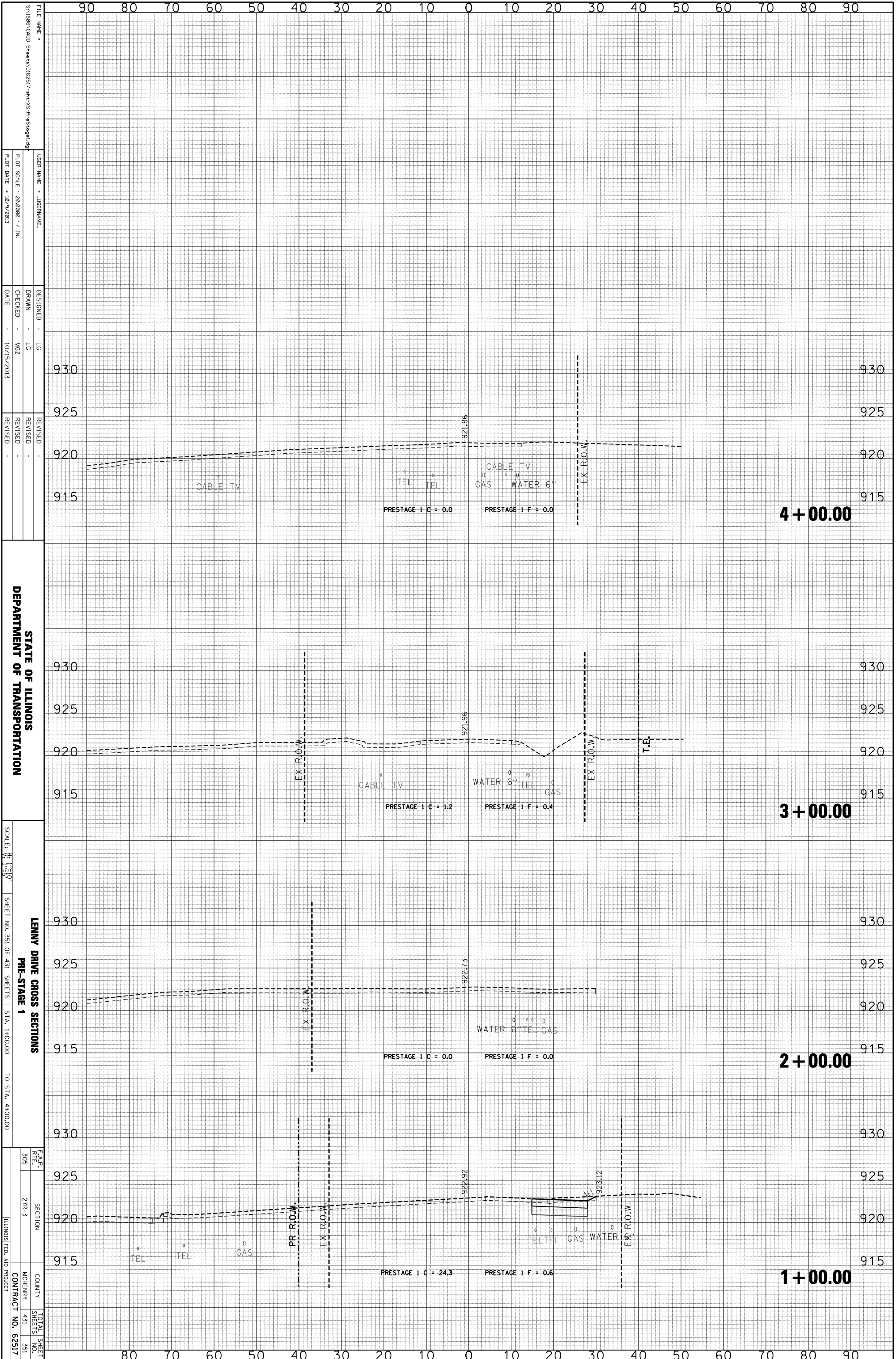
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 LUCAS ROAD & COLLEGE ENTRANCE #3 CROSS SECTIONS  
 PRE-STAGE 1  
 SCALE: 1" = 10'  
 SHEET NO. 350 OF 431  
 SHEETS 13+00.00 TO STA. 15+76.00

90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	
930																			930
925																			925
																			<b>15 + 76.00</b>
930																			930
925																			925
																			<b>15 + 00.00</b>
930																			930
925																			925
																			<b>14 + 00.00</b>
930																			930
925																			925
																			<b>13 + 00.00</b>
90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	

F.A.P. R.E.	SECTION	COUNTY	TOTAL SHEET NO.
305	2TR-3	MCHEMERY	350
CONTRACT NO.		ILLINOIS FED. AID PROJECT	

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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 PLOT DATE = 10/9/2013

DESIGNED - LG  
 DRAWN - LG  
 CHECKED - MOZ  
 DATE - 10/15/2013

REVISIONS  
 REVISION NO. DATE BY DESCRIPTION

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 Lenny Drive Cross Sections  
 PRE-STAGE 1  
 SCALE: 1" = 10'  
 SHEET NO. 351 OF 431 SHEETS  
 STA. 1+00.00 TO STA. 4+00.00

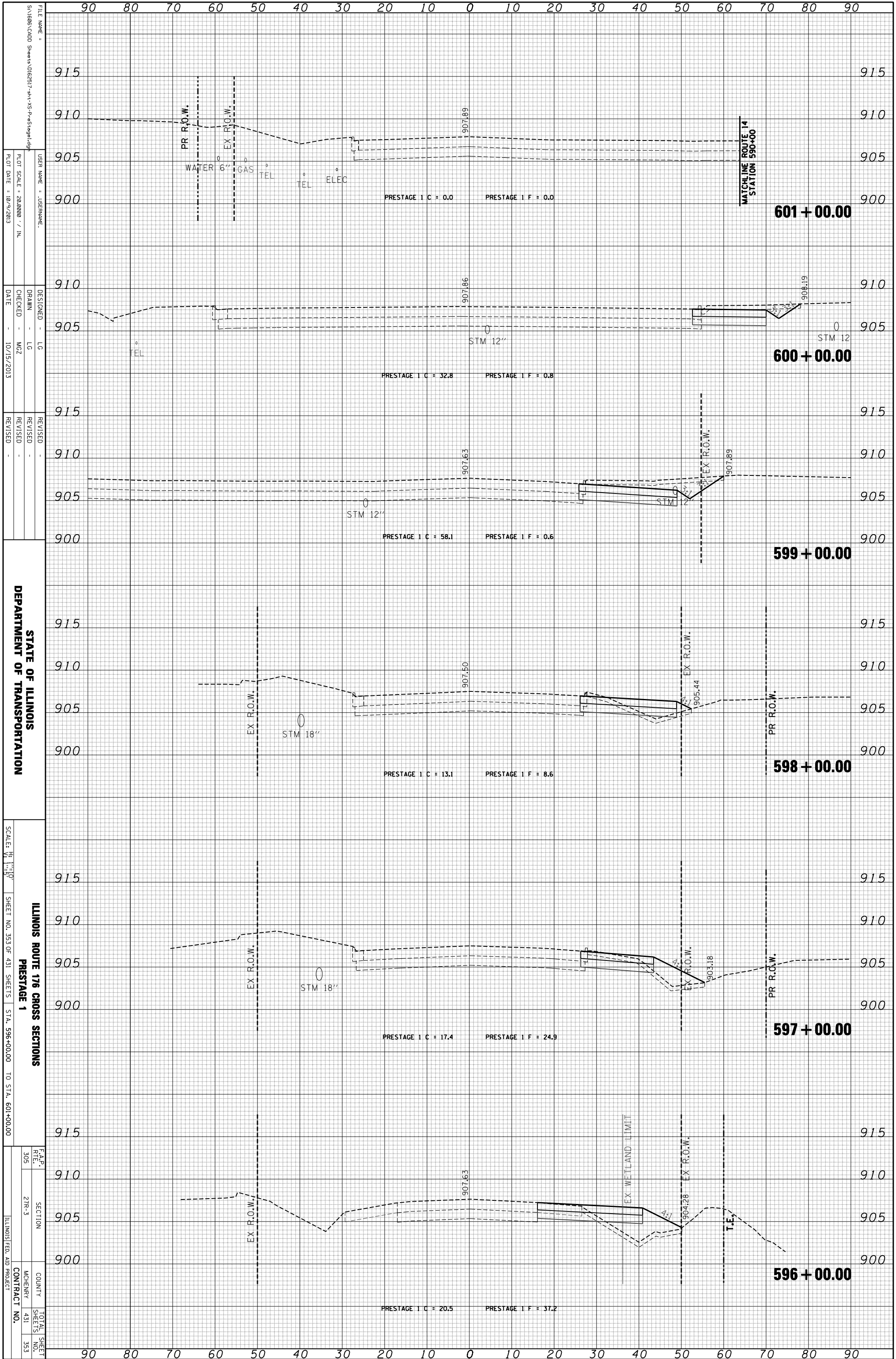
F.A.P. R/L	SECTION	COUNTY	TOTAL SHEETS
305	21R-3	MCHEMERY	431
		CONTRACT NO.	62517

ILLINOIS FED. AID PROJECT



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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 PLOT SCALE = 28.0000' / IN.  
 PLOT DATE = 10/9/2013  
 DESIGNED - LG  
 DRAWN - LG  
 CHECKED - MZ  
 DATE - 10/15/2013  
 REVISED -  
 REVISIONS -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SCALE: 1" = 10'  
 SHEET NO. 353 OF 431 SHEETS  
 STA. 596+00.00 TO STA. 601+00.00

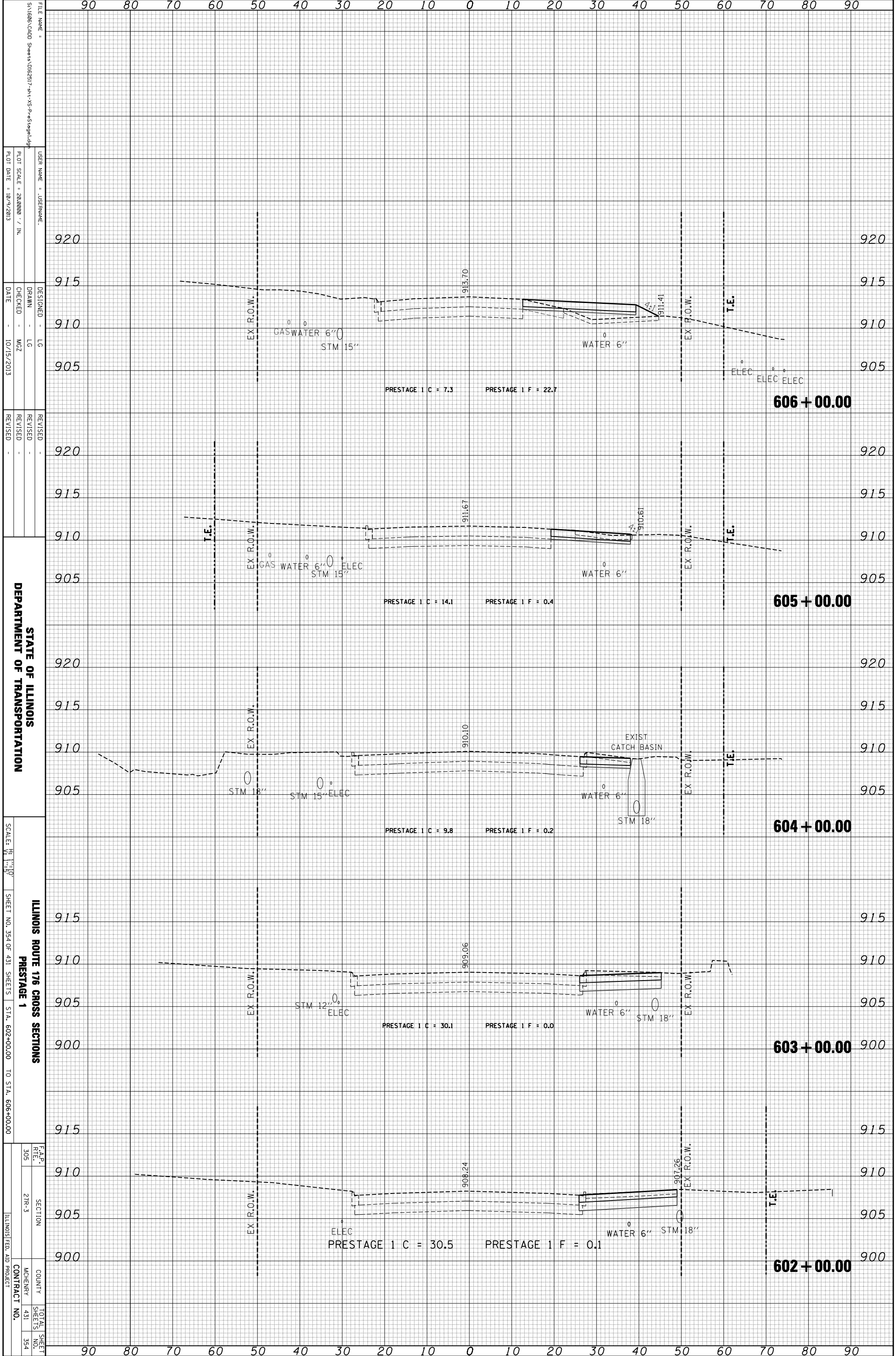
**ILLINOIS ROUTE 176 CROSS SECTIONS**  
**PRESTAGE 1**

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS
305	21R-3	MCHEMERY	431
			SHEET NO. 353

ILLINOIS FED. AID PROJECT CONTRACT NO.

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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 CHECKED - MZ  
 DATE - 10/15/2013

REVISIONS  
 REVISION NO. | DATE | DESCRIPTION

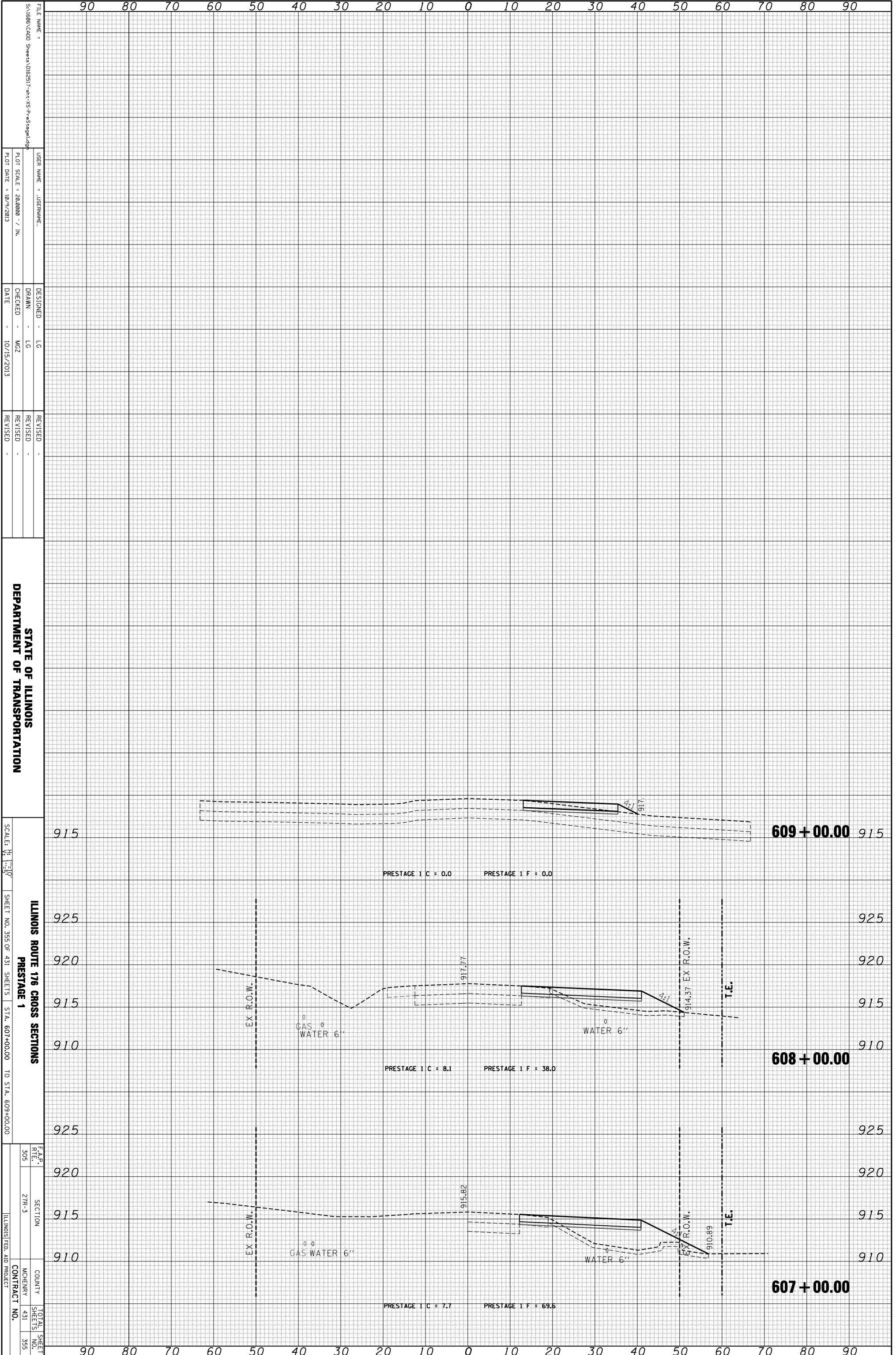
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 ILLINOIS ROUTE 176 CROSS SECTIONS  
 PRESTAGE 1  
 SHEET NO. 354 OF 431 SHEETS  
 STA. 602+00.00 TO STA. 606+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
305	21R-3	MCHENNY	431
			354

CONTRACT NO. ILLINOIS FED. AID PROJECT

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



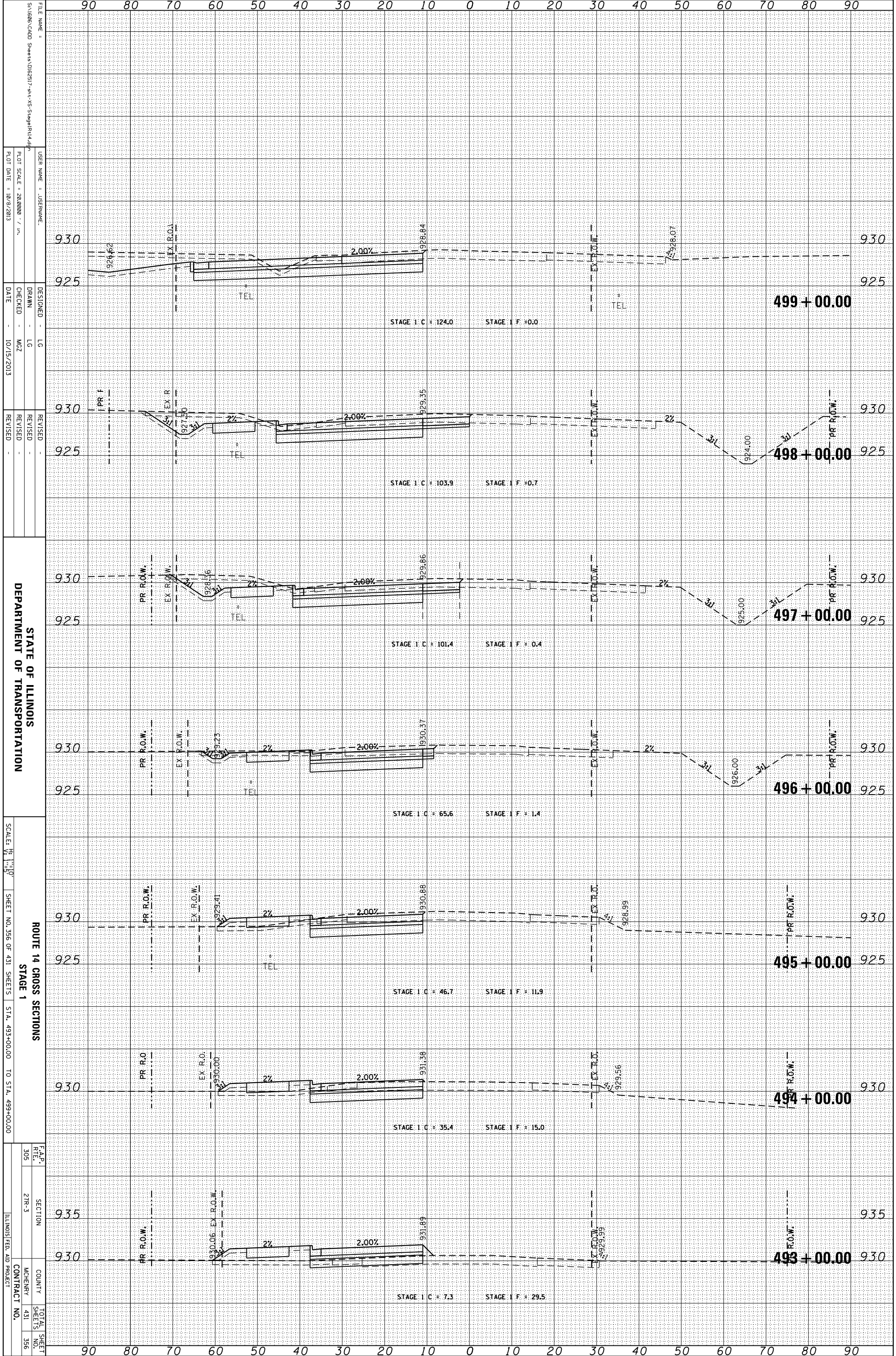
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 DRAWN - LG  
 CHECKED - MZ  
 DATE - 10/15/2013  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE: 1" = 10'  
 SHEET NO. 355 OF 431 SHEETS STA. 607+00.00 TO STA. 609+00.00  
 ILLINOIS ROUTE 176 CROSS SECTIONS  
 PRESTAGE 1  
 F.A.P. 305  
 SECTION 21R-3  
 COUNTY MCHENRY  
 CONTRACT NO. 431  
 TOTAL SHEET NO. 355  
 ILLINOIS FED. AID PROJECT

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



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 DRAWN - LG  
 CHECKED - MZ  
 DATE - 10/15/2013

REVISOR -  
 REVISION -  
 REVISION -  
 REVISION -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

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90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90

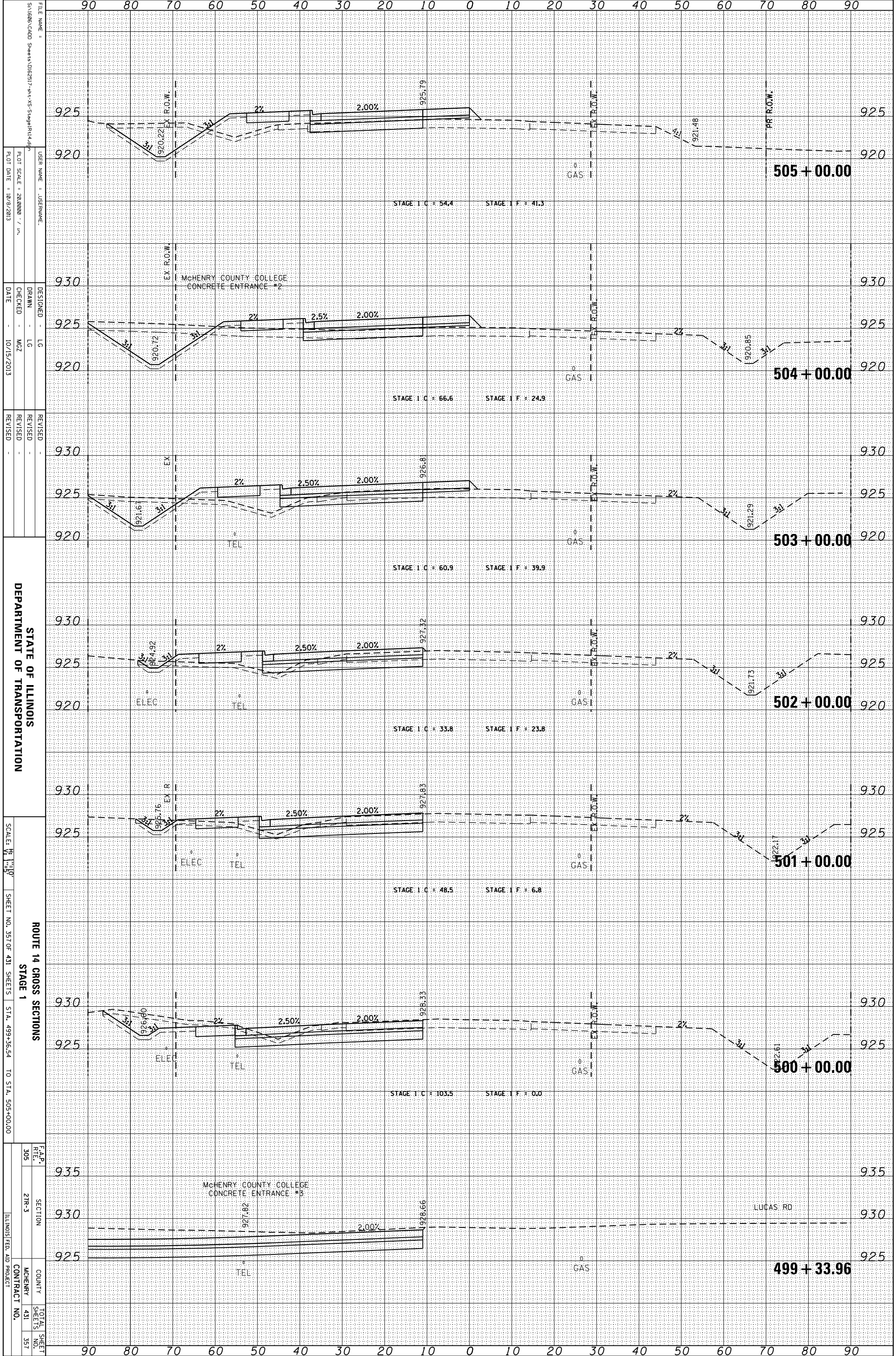
ROUTE 14 CROSS SECTIONS  
 STAGE 1  
 SCALE: 1" = 50'  
 SHEET NO. 356 OF 431 SHEETS  
 STA. 493+00.00 TO STA. 499+00.00

F.A.P. R.T.L.	SECTION	COUNTY	TOTAL SHEETS
305	21R-3	MCHEMERY	431
			356
			CONTRACT NO.
			ILLINOIS FED. AID PROJECT



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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 PLOT SCALE = 28.0000 / in.  
 PLOT DATE = 10/9/2013

DESIGNED - LG  
 DRAWN - LG  
 CHECKED - MZ  
 DATE - 10/15/2013

REVISIONS  
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 REVISION

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 SCALE: 1" = 10'  
 SHEET NO. 357 OF 431 SHEETS STA. 499+36.54 TO STA. 505+00.00  
 ROUTE 14 CROSS SECTIONS  
 STAGE 1

F.A.P. SECTION TOTAL SHEET NO. 305 27R-3 MCHENRY 431 357 ILLINOIS FED. AID PROJECT

505 + 00.00

504 + 00.00

503 + 00.00

502 + 00.00

501 + 00.00

500 + 00.00

499 + 33.96

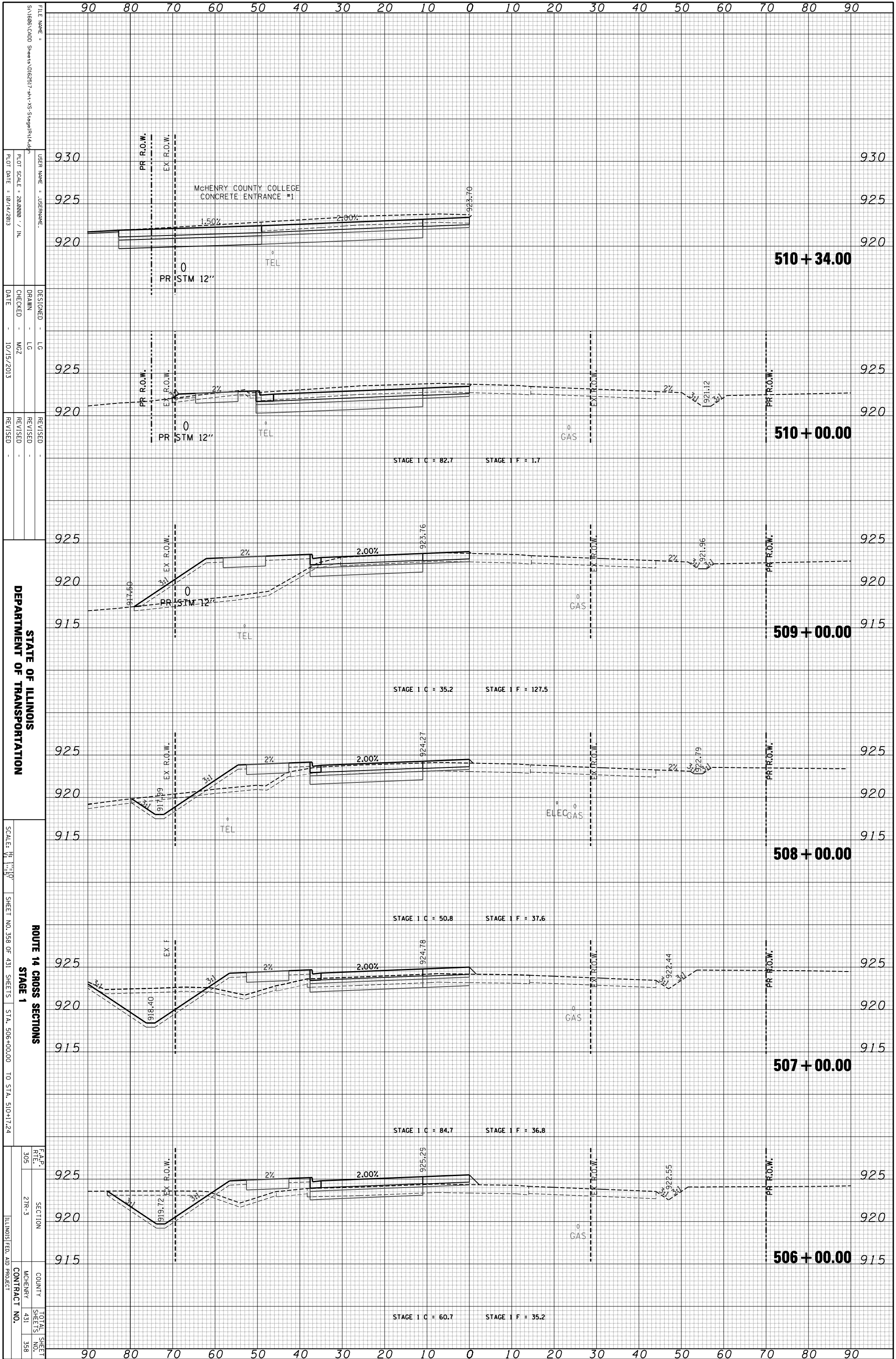
MCHENRY COUNTY COLLEGE  
 CONCRETE ENTRANCE #2

MCHENRY COUNTY COLLEGE  
 CONCRETE ENTRANCE #3

LUCAS RD

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

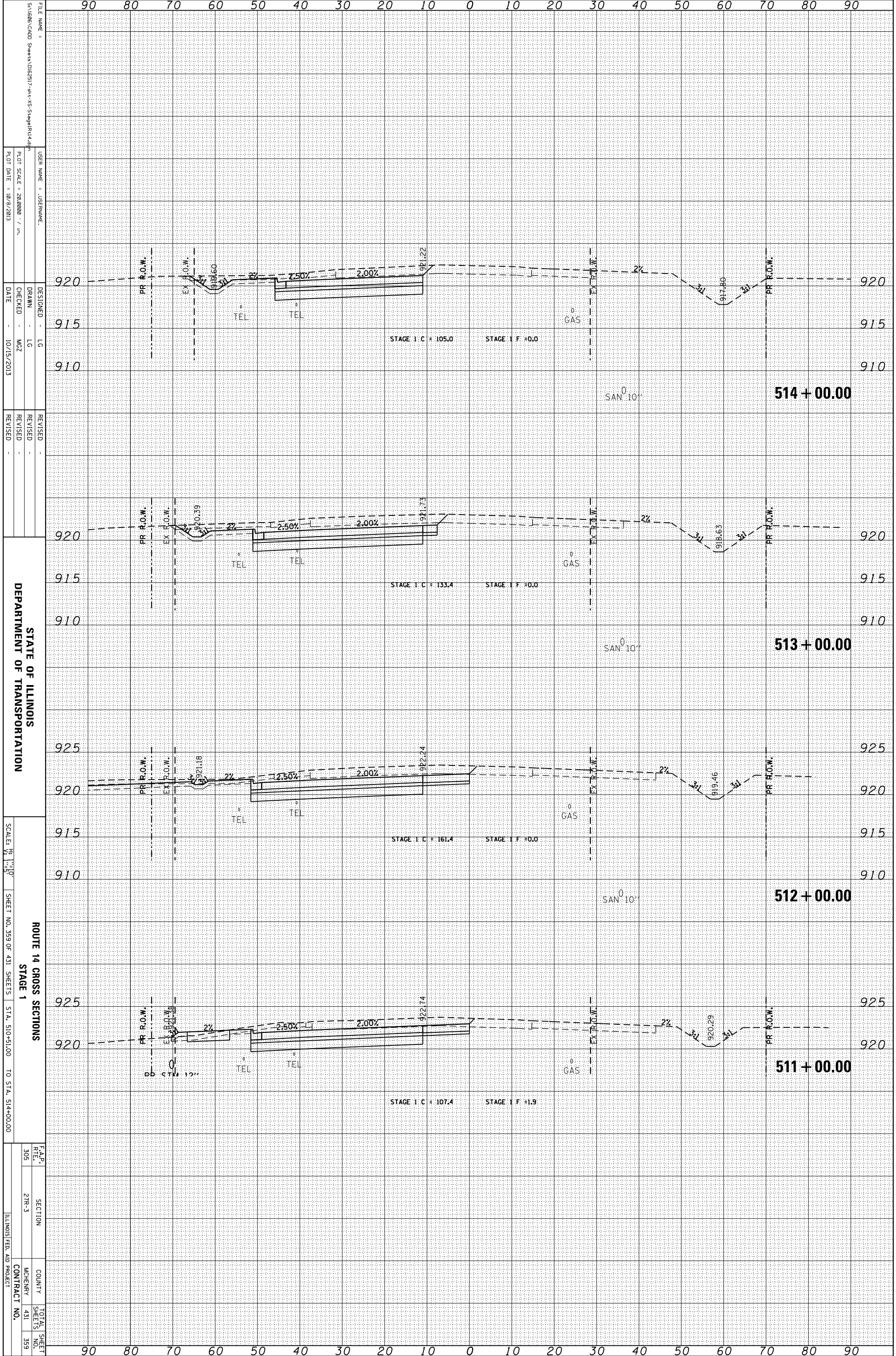
ROUTE 14 CROSS SECTIONS  
STAGE 1

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	DATE	10/15/2013	REVISED
			-

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEET NO.
305	21R-3	MCHEMRY	358
		CONTRACT NO.	
		431	
		ILLINOIS FED. AID PROJECT	

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



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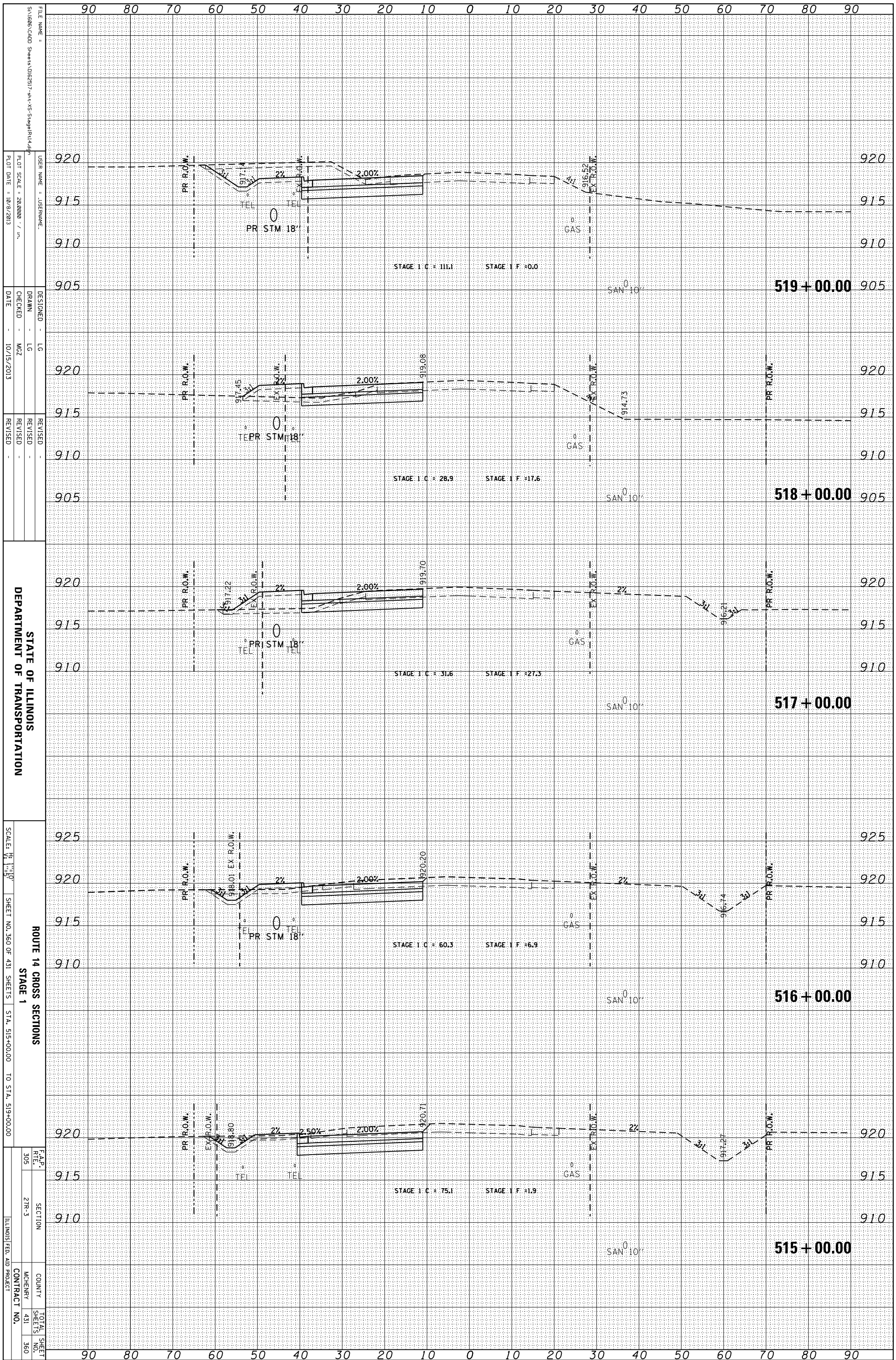
REVISIONS  
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 REVISION  
 REVISION

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 ROUTE 14 CROSS SECTIONS  
 STAGE 1  
 SCALE: 1" = 10'  
 SHEET NO. 359 OF 431 SHEETS  
 STA. 510+51.00 TO STA. 514+00.00

F.A.P. RTL.	SECTION	COUNTY	TOTAL SHEET NO.
305	2TR-3	MCHEMERY	431
			359
		CONTRACT NO.	
		ILLINOIS FED. AID PROJECT	

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



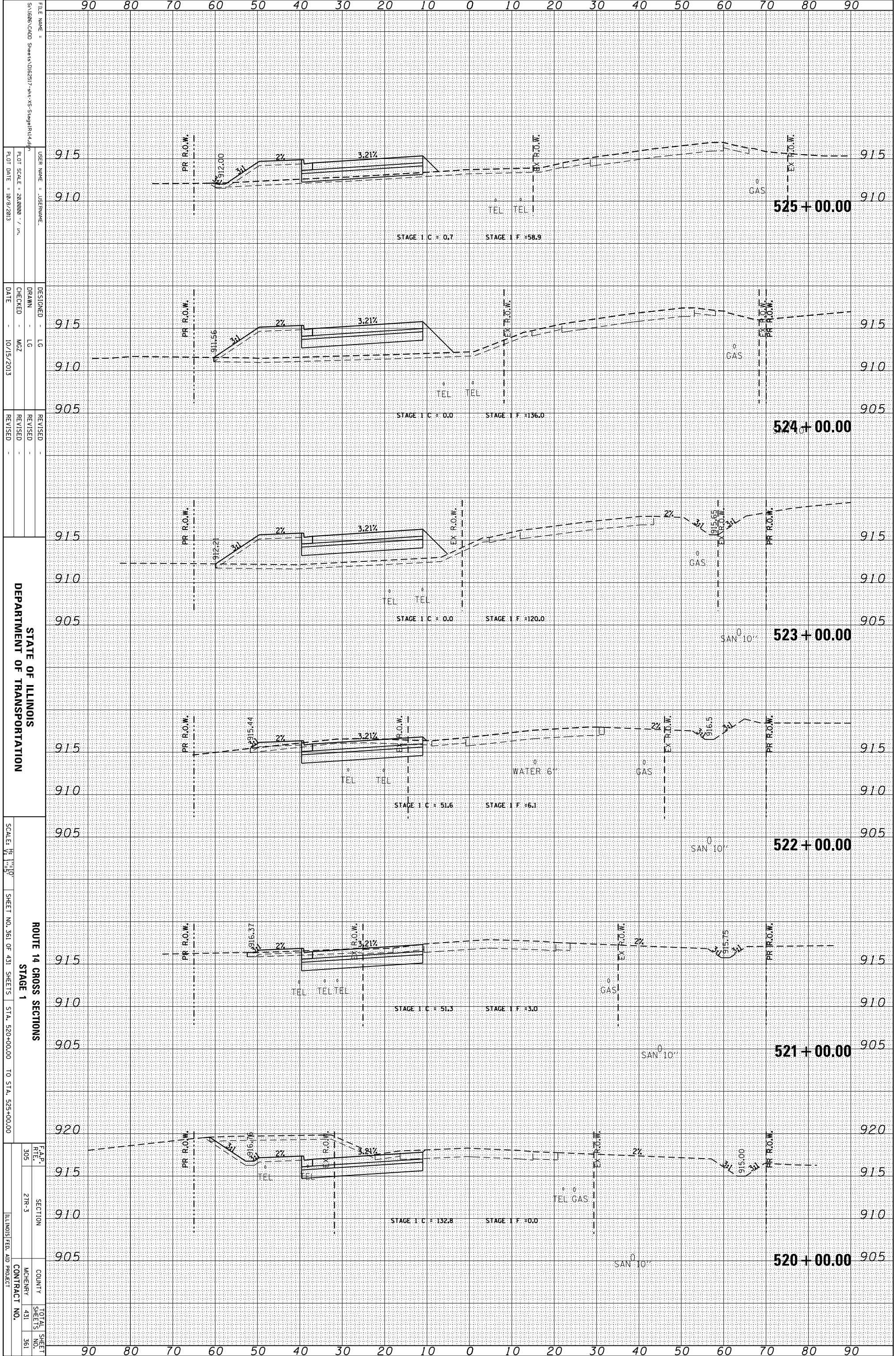
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
 STAGE 1  
 SCALE: 1" = 10'  
 SHEET NO. 360 OF 431 SHEETS  
 STA. 515+00.00 TO STA. 519+00.00

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS
305	2TR-3	MCHEMERY	431
			360
		CONTRACT NO.	
		ILLINOIS FED. AID PROJECT	

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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 PLOT DATE = 10/9/2013

DESIGNED - LG  
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 CHECKED - MZ  
 DATE - 10/15/2013

REVISIONS  
 REVISION  
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 REVISION

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
 STAGE 1

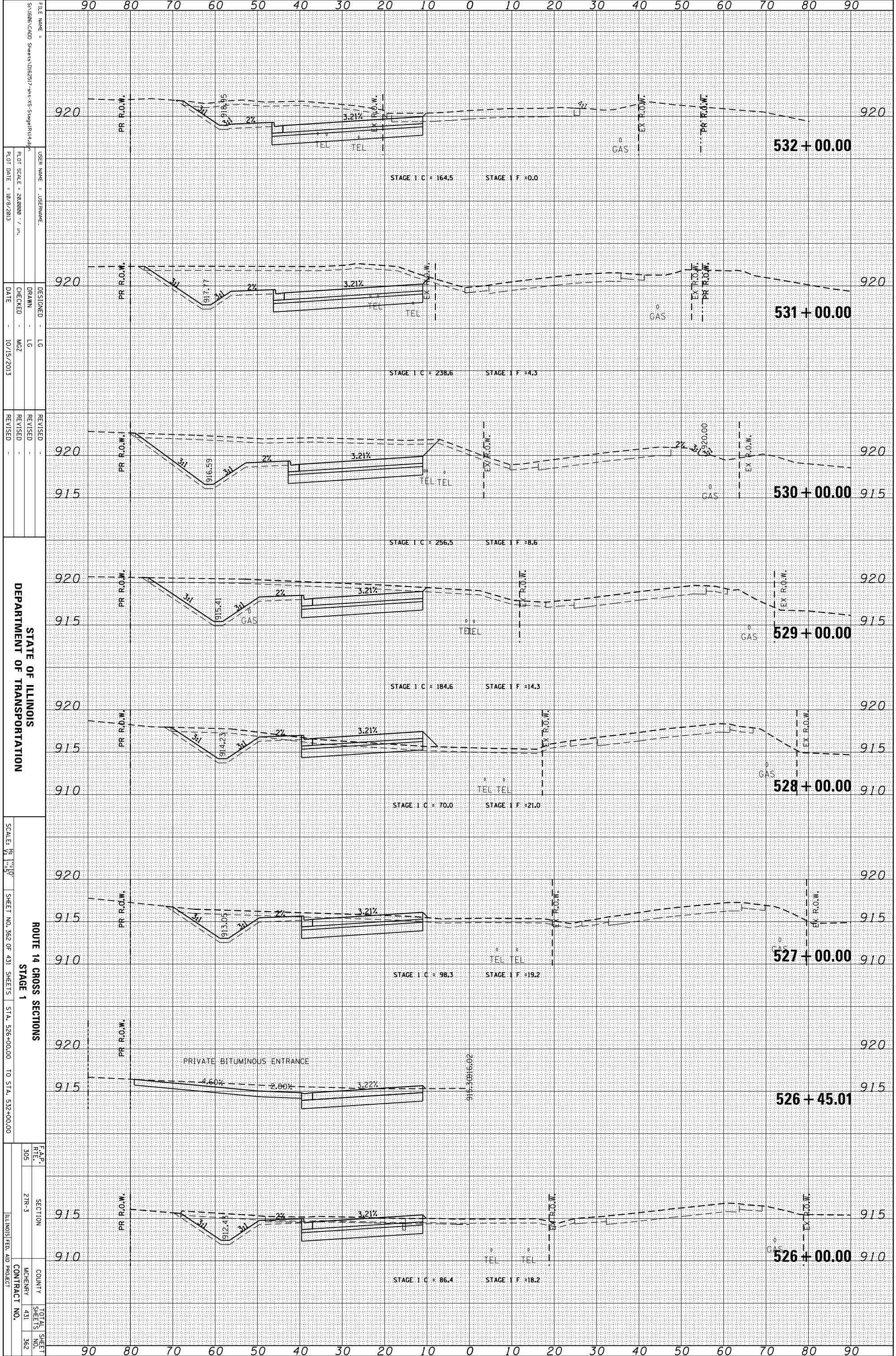
SCALE: 1" = 50'  
 SHEET NO. 361 OF 431 SHEETS  
 STA. 520+00.00 TO STA. 525+00.00

F.A.P. RTL.	SECTION	COUNTY	TOTAL SHEETS
305	2TR-3	MCHEMERY	431
		CONTRACT NO.	361

ILLINOIS FED. AID PROJECT

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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 PLOT DATE = 10/9/2013

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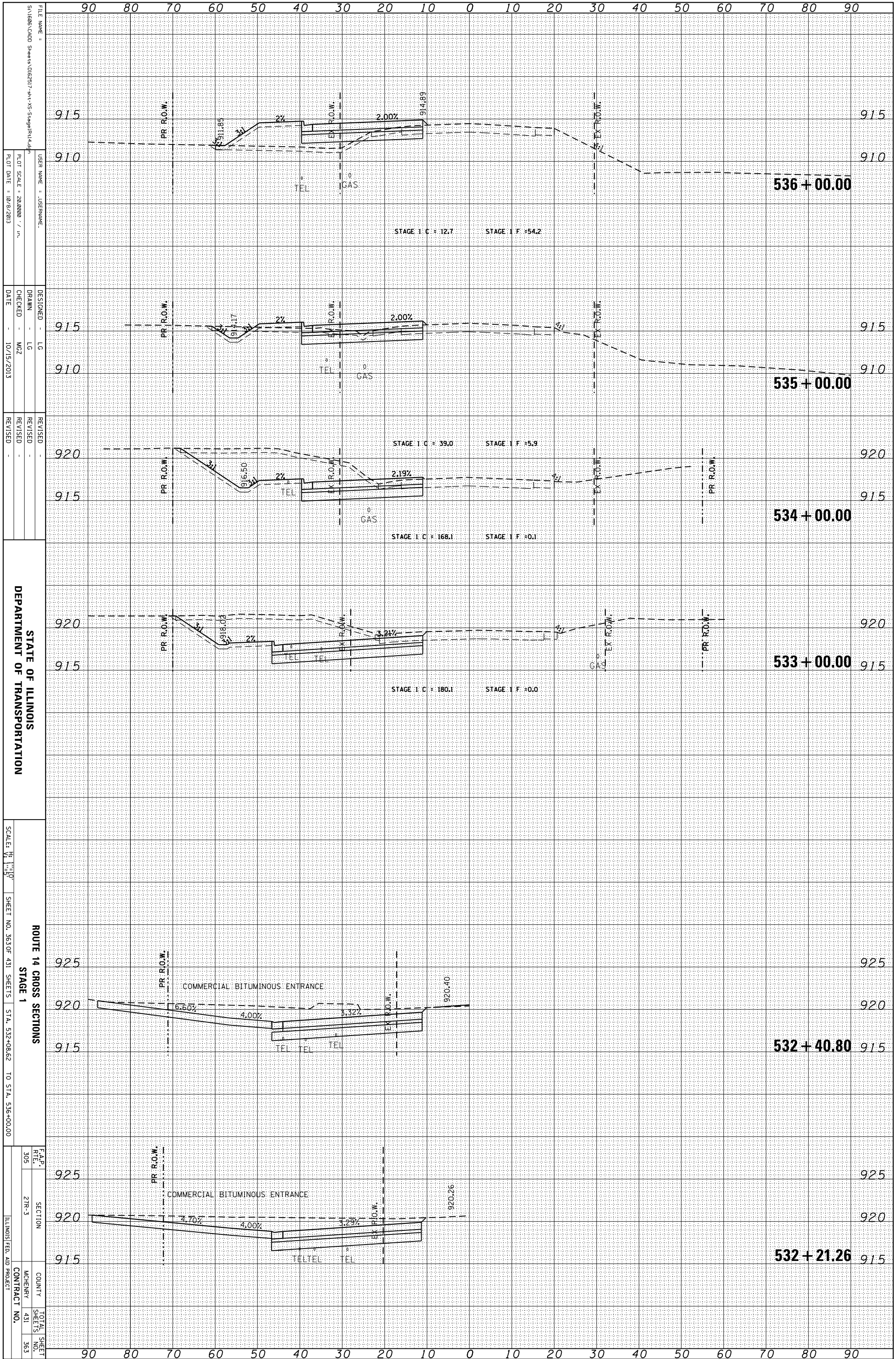
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 REVISION NO. | DATE | DESCRIPTION

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 ROUTE 14 CROSS SECTIONS  
 STAGE 1  
 SCALE: 1" = 50'  
 SHEET NO. 362 OF 431 SHEETS  
 STA. 526+00.00 TO STA. 532+00.00

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS
305	21R-3	MCHEMERY	362
CONTRACT NO.		431	
ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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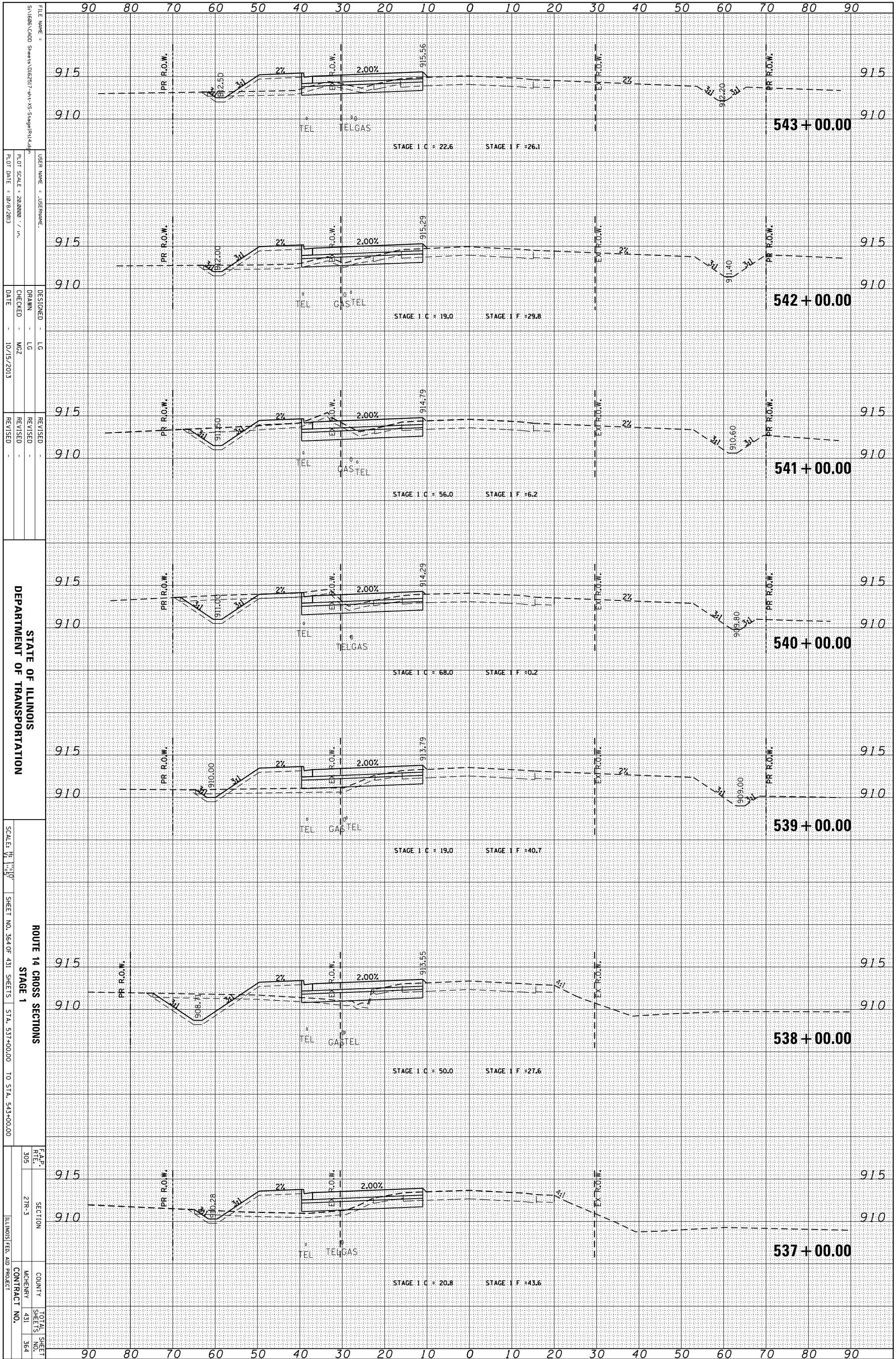
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
 STAGE 1  
 SCALE: 1" = 50'  
 SHEET NO. 363 OF 431 SHEETS  
 STA. 532+08.62 TO STA. 536+00.00

F.A.P. R.T.L.	SECTION	COUNTY	TOTAL SHEETS
305	2TR-3	MCHEMERY	431
		CONTRACT NO.	363

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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 REVISIONS:

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

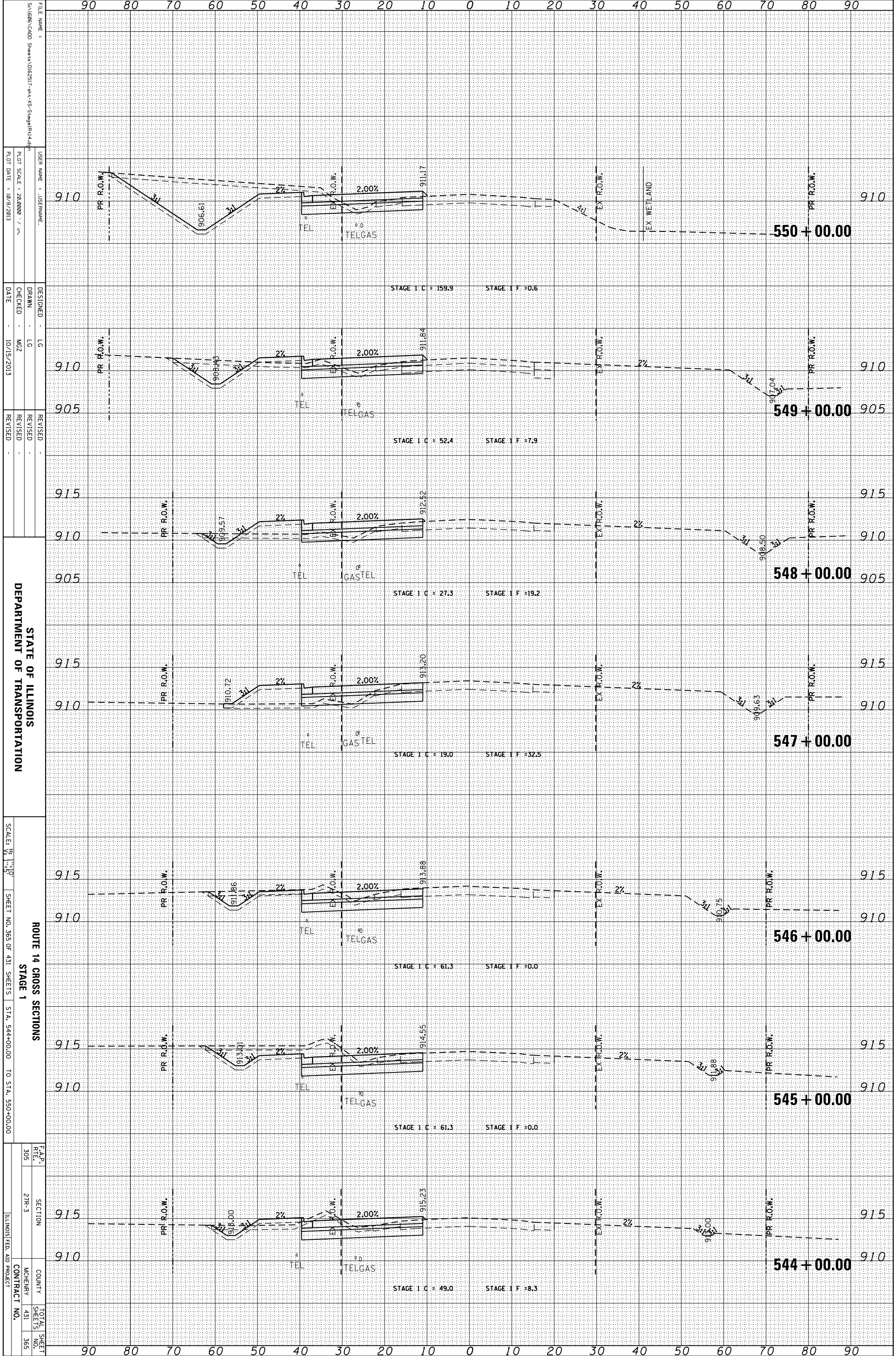
ROUTE 14 CROSS SECTIONS  
 STAGE 1  
 SCALE: 1" = 10'  
 SHEET NO. 364 OF 431 SHEETS  
 STA. 537+00.00 TO STA. 543+00.00

F.A.P. R.T.L.	SECTION	COUNTY	TOTAL SHEET NO.
305	21R-3	MCHEMERY	364
CONTRACT NO.			ILLINOIS FED. AID PROJECT



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



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 PLOT SCALE = 28,0000 / in.  
 PLOT DATE = 10/9/2013

DESIGNED - LG  
 DRAWN - LG  
 CHECKED - MZ  
 DATE - 10/15/2013

REVISIONS  
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 REVISION -  
 REVISION -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

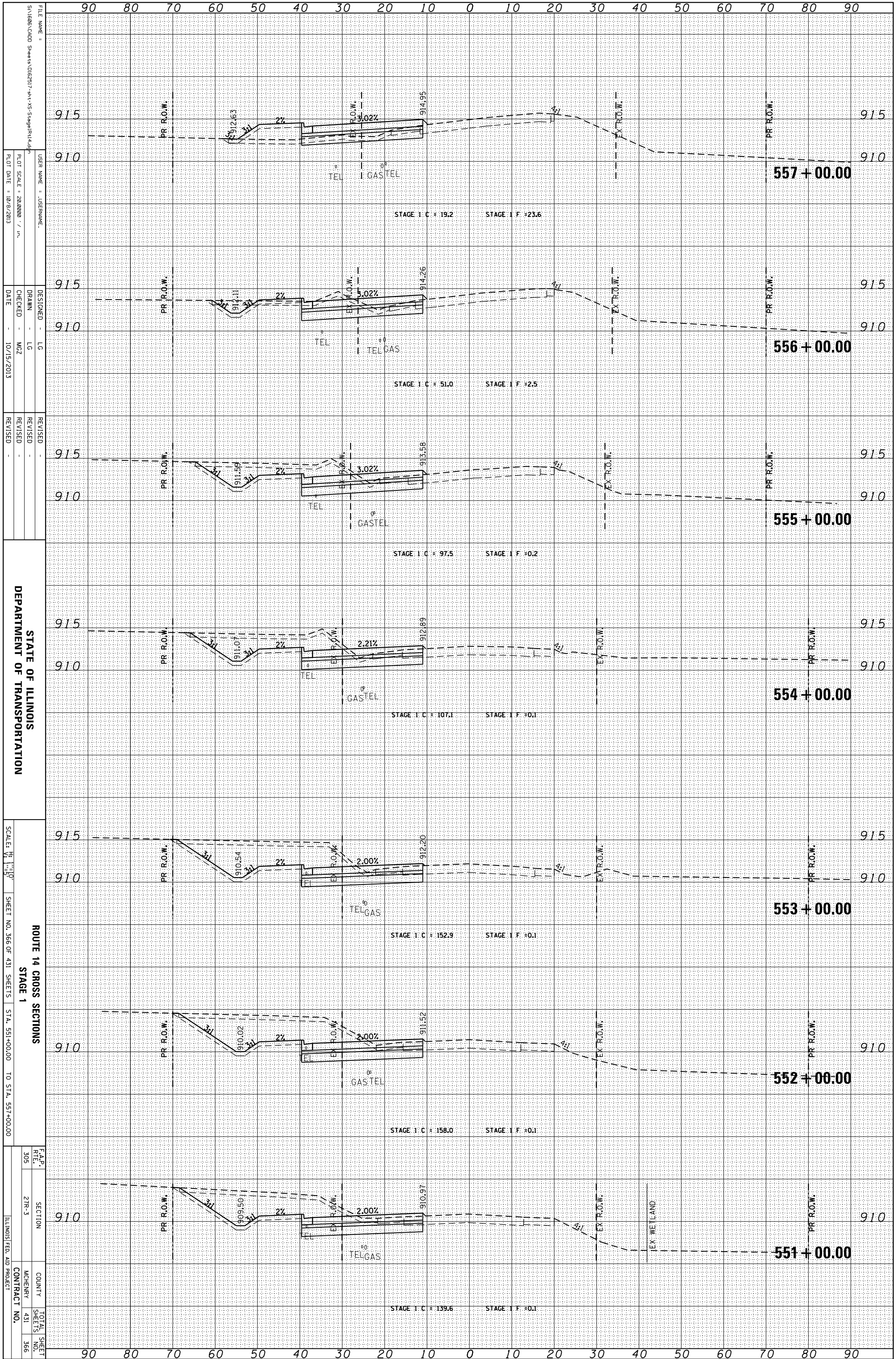
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ROUTE 14 CROSS SECTIONS  
 STAGE 1  
 SHEET NO. 365 OF 431 SHEETS  
 STA. 544+00.00 TO STA. 550+00.00

F.A.P. R.T.L.	SECTION	COUNTY	TOTAL SHEET NO.
305	2TR-3	MCHEMERY	365
ILLINOIS FED. AID PROJECT		CONTRACT NO.	

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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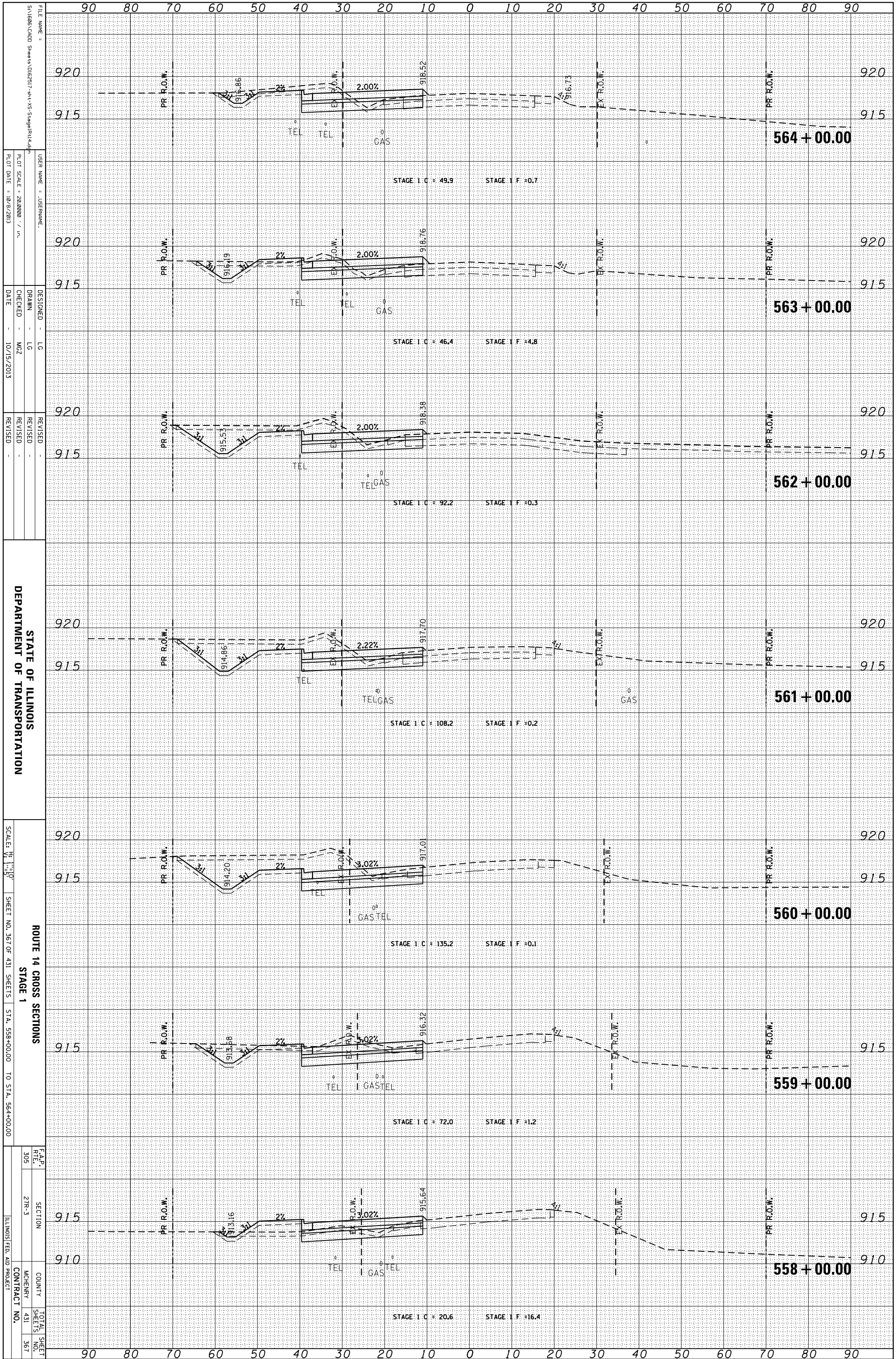
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
 STAGE 1  
 SCALE: 1" = 50'  
 SHEET NO. 366 OF 431 SHEETS  
 STA. 551+00.00 TO STA. 557+00.00

F.A.P. REL.	SECTION	COUNTY	TOTAL SHEETS
305	21R-3	MCHEMERY	366
		CONTRACT NO.	
		ILLINOIS FED. AID PROJECT	

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
STAGE 1  
SCALE: 1" = 10'  
SHEET NO. 367 OF 431 SHEETS  
STA. 558+00.00 TO STA. 564+00.00

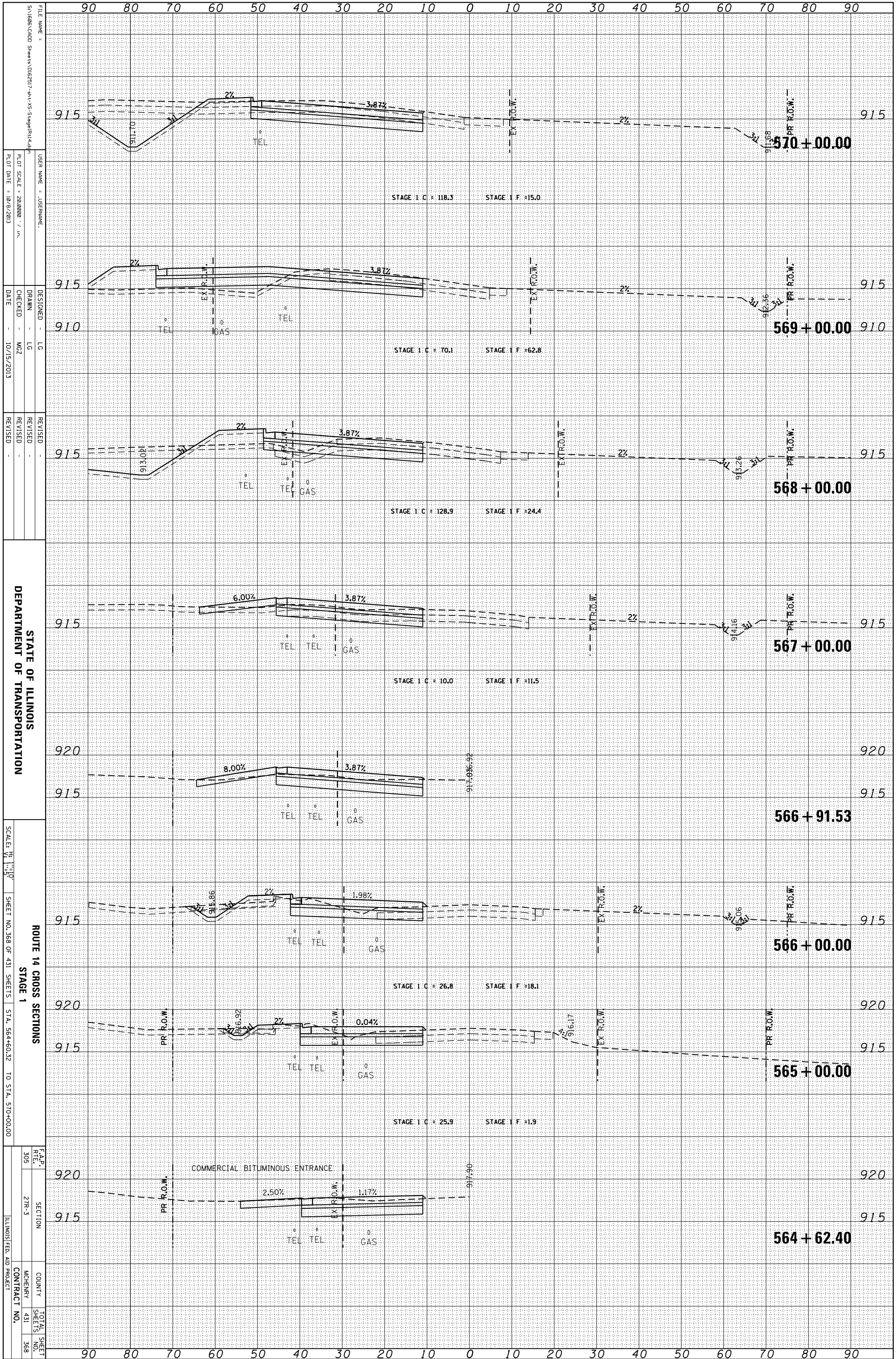
F.A.P. R.T.L.	SECTION	COUNTY	TOTAL SHEET NO.
305	27R-3	MCHEMERY	431
		CONTRACT NO.	367
		ILLINOIS FED. AID PROJECT	

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		MZ	
		DATE -	REVISION
		10/15/2013	

PLLOT SCALE =	DATE
28.0000 / in.	10/15/2013

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
STAGE 1

F.A.P. RTL.	SECTION	COUNTY	TOTAL SHEET NO.
305	27R-3	MCHEMERY	368
CONTRACT NO.		ILLINOIS FED. AID PROJECT	

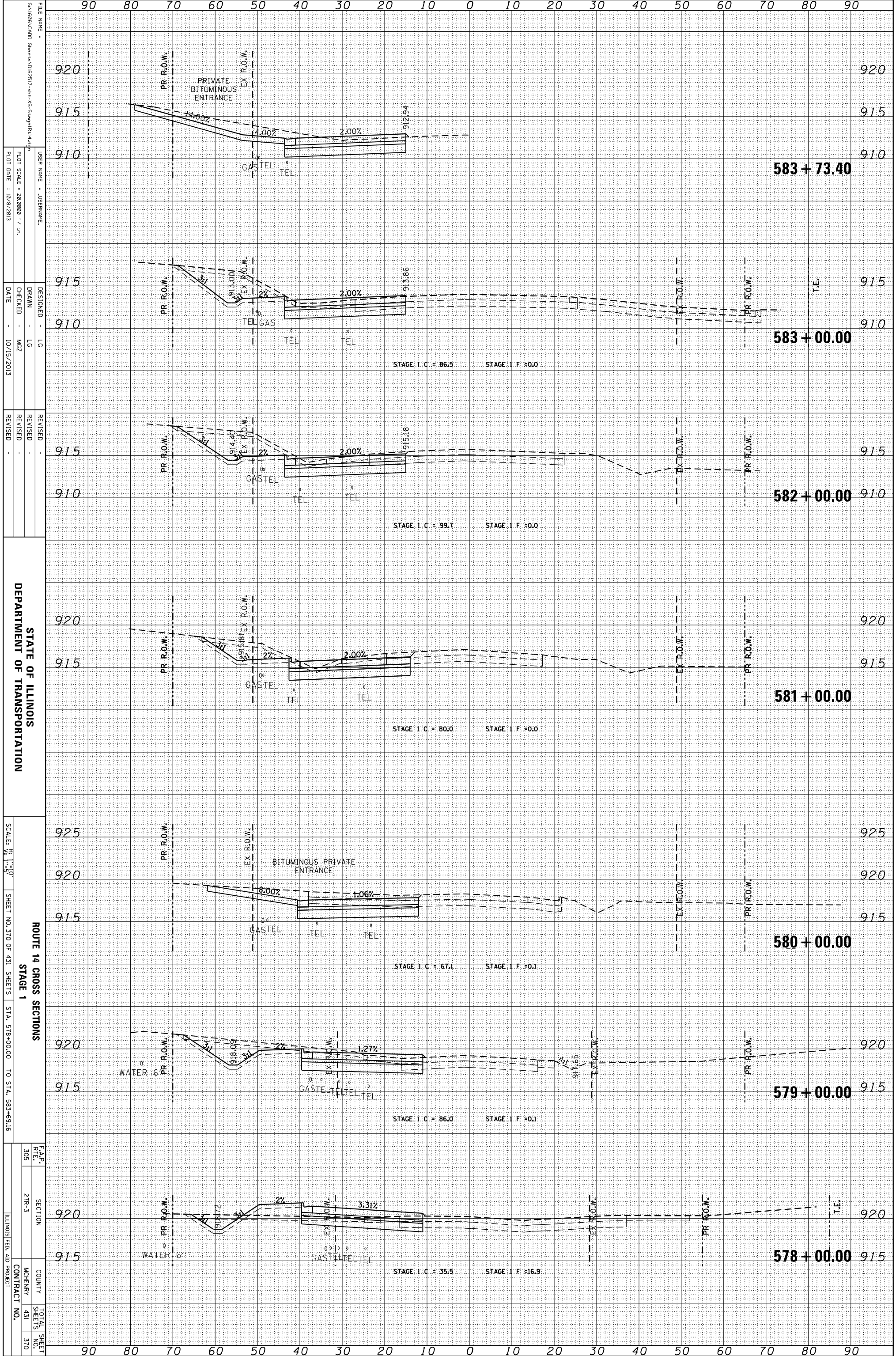
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	CHECKED -	CHECKED -	
	MOZ	MOZ	
	DATE -	DATE -	
	10/15/2013	10/15/2013	
	REVISOR -	REVISOR -	

SCALE = 1" = 50'  
PLOT DATE = 10/15/2013



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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 PLOT DATE = 10/9/2013

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 DRAWN - LG  
 CHECKED - MZ  
 DATE - 10/15/2013

REVISOR  
 REVISION  
 REVISION  
 REVISION

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
 STAGE 1

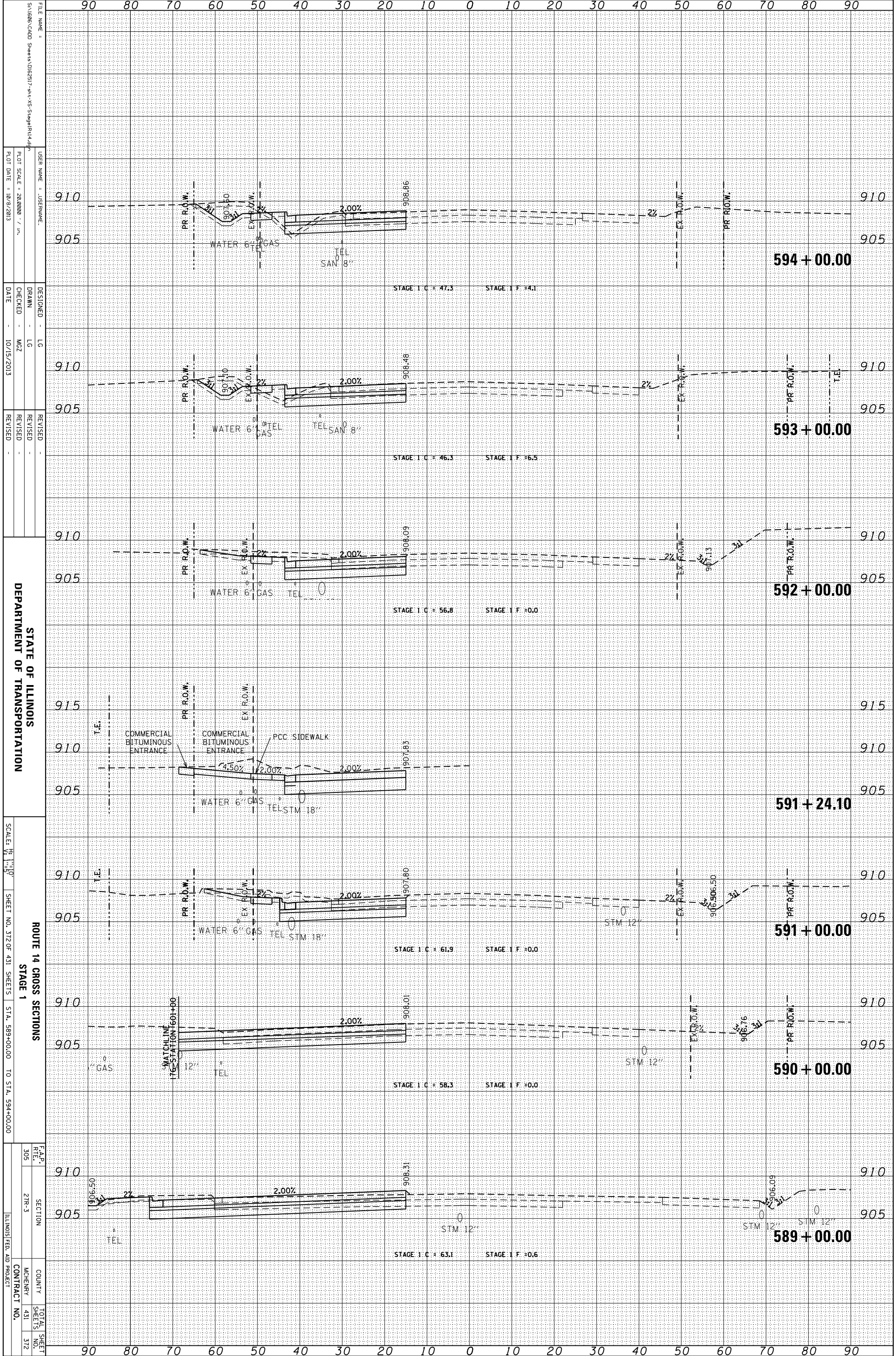
SCALE: 1" = 10'  
 SHEET NO. 370 OF 431 SHEETS  
 STA. 578+00.00 TO STA. 583+69.16

F.A.P. R.T.L. SECTION COUNTY TOTAL SHEET SHEETS NO. 305 27R-3 MCHEMERY 431 370 ILLINOIS FED. AID PROJECT



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



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 PLOT DATE = 10/9/2013

DESIGNED - LG  
 DRAWN - LG  
 CHECKED - MZ  
 DATE - 10/15/2013

REVISOR  
 REVISION  
 REVISION  
 REVISION

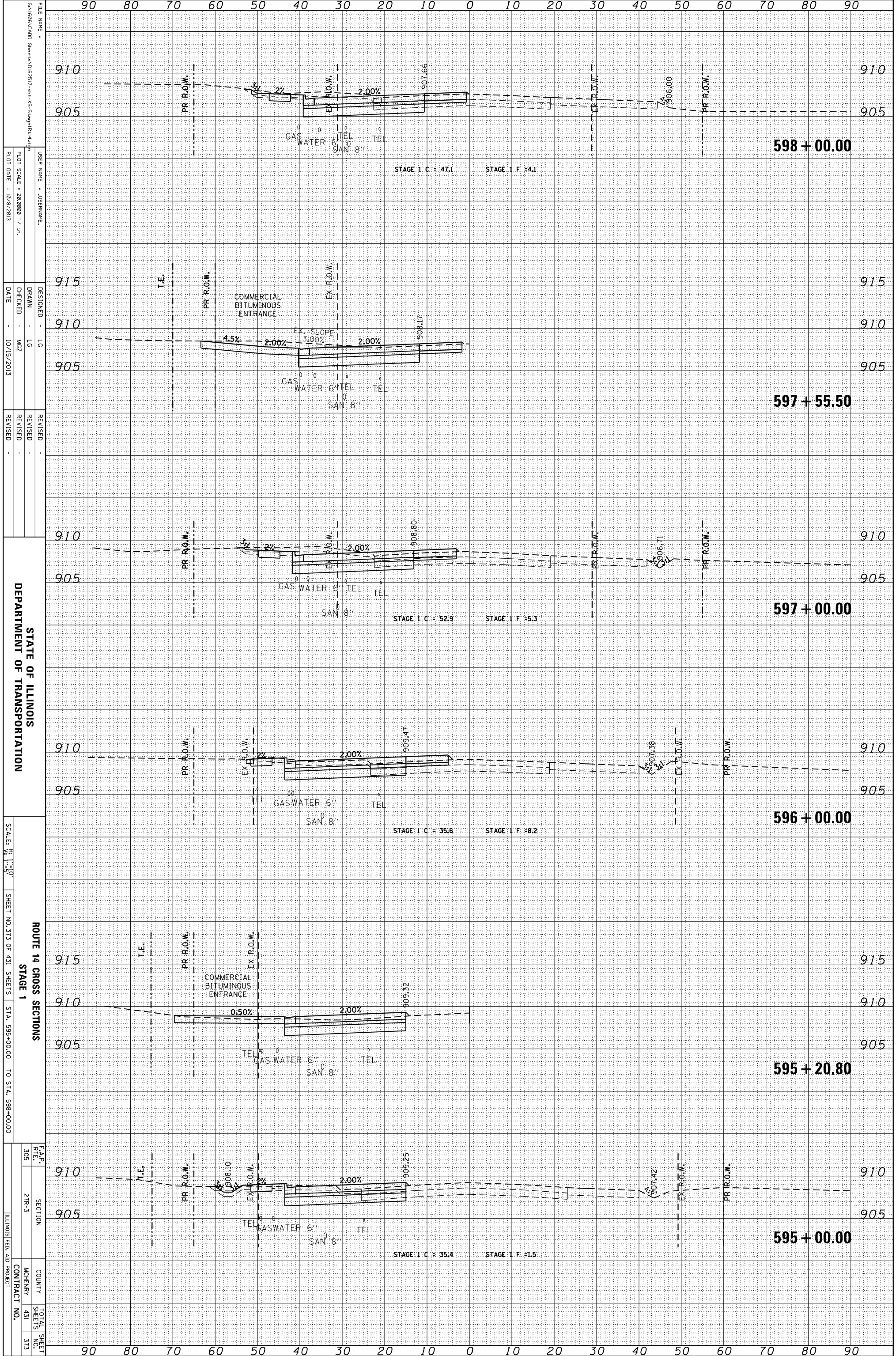
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 ROUTE 14 CROSS SECTIONS  
 STAGE 1  
 SCALE: 1" = 50'  
 SHEET NO. 372 OF 431 SHEETS  
 STA. 589+00.00 TO STA. 594+00.00

F.A.P. R.T.L.	SECTION	COUNTY	TOTAL SHEETS
305	27R-3	MCHEMERY	431
		CONTRACT NO.	372
		ILLINOIS FED. AID PROJECT	



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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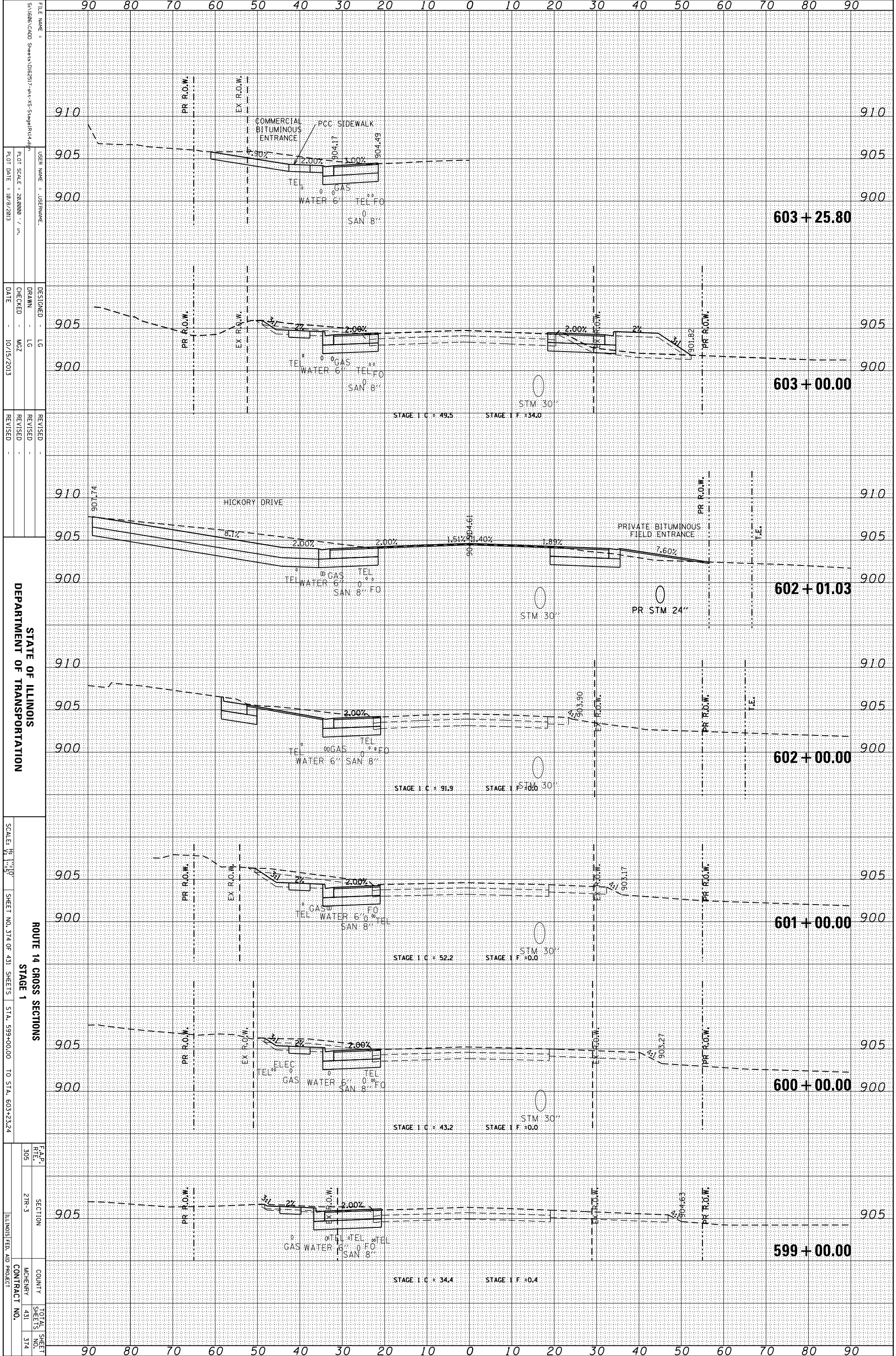
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
 STAGE 1  
 SCALE: 1" = 50'  
 SHEET NO. 373 OF 431 SHEETS  
 STA. 595+00.00 TO STA. 598+00.00

F.A.P. SECTION COUNTY TOTAL SHEET  
 R.T.L. SECTION COUNTY SHEETS  
 305 SECTION 27R-3 MCHENRY 431 373  
 ILLINOIS FED. AID PROJECT CONTRACT NO.

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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 PLOT DATE = 10/9/2013

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 DRAWN - LG  
 CHECKED - MZ  
 DATE - 10/15/2013

REVISOR  
 REVISION  
 REVISION  
 REVISION

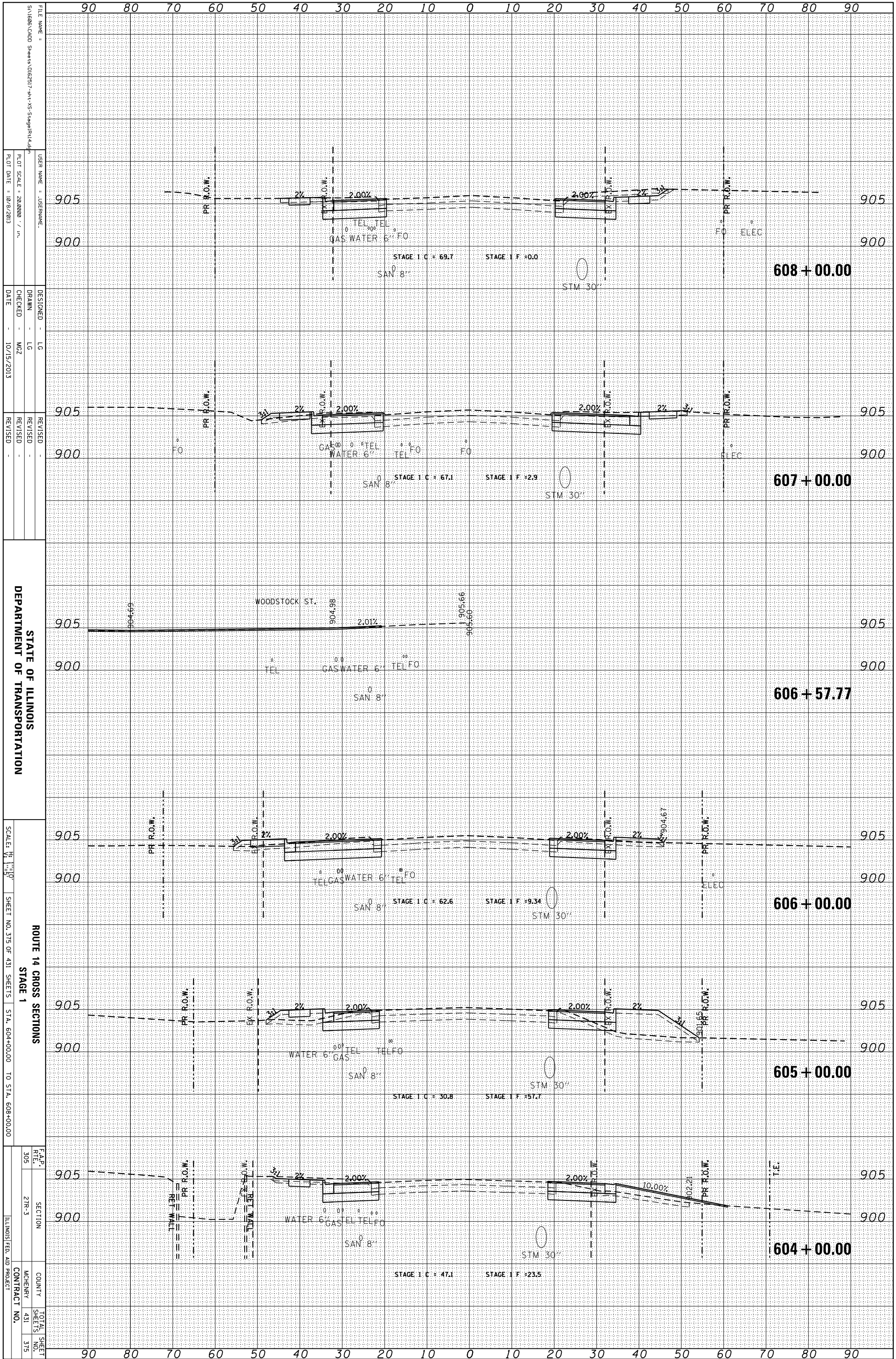
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 ROUTE 14 CROSS SECTIONS  
 STAGE 1  
 SHEET NO. 374 OF 431 SHEETS  
 STA. 599+00.00 TO STA. 603+23.24

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS
305	27R-3	MCHEMERY	431
			374

ILLINOIS FED. AID PROJECT  
 CONTRACT NO.

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
 STAGE 1  
 STA. 604+00.00 TO STA. 608+00.00

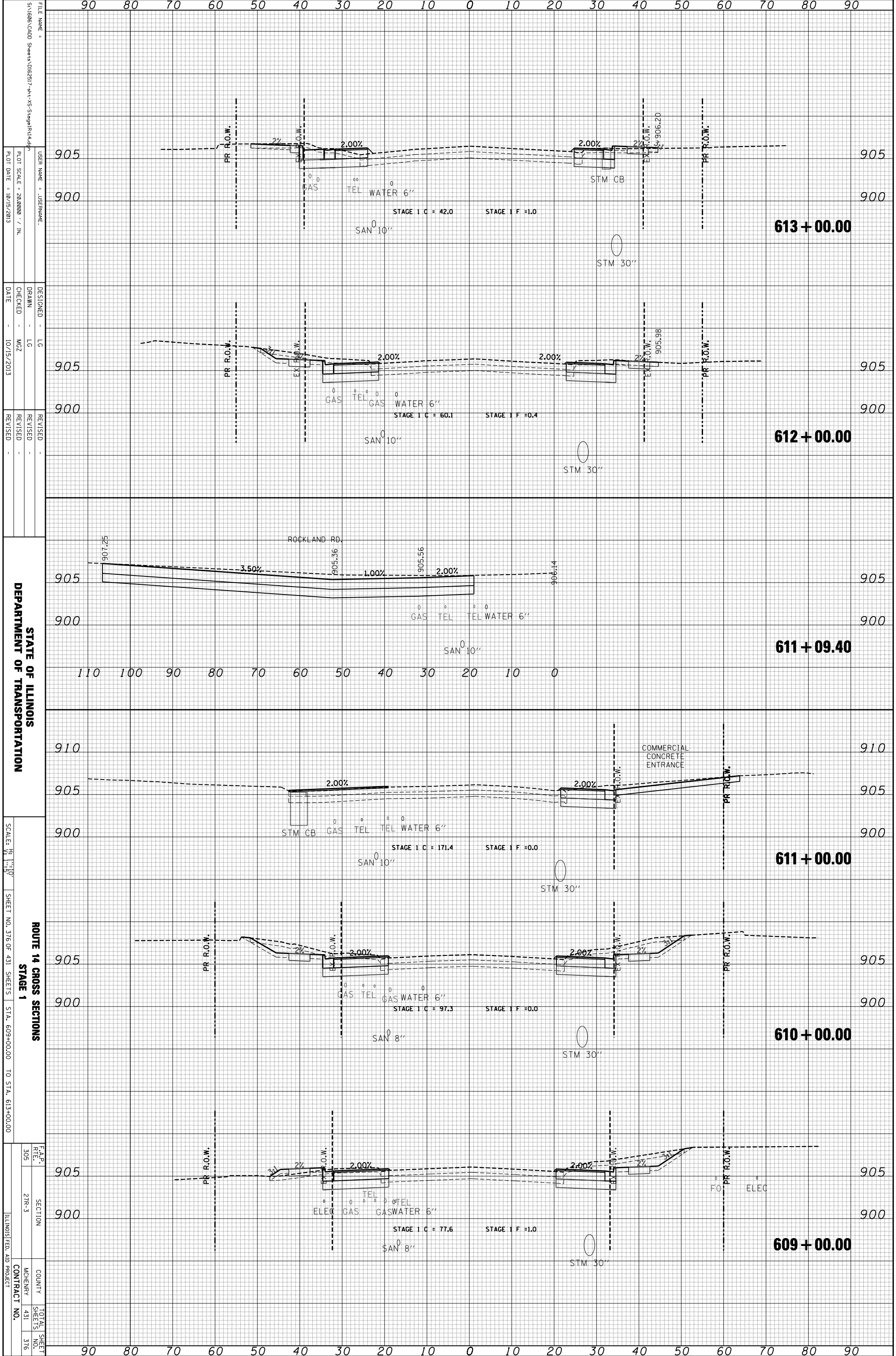
F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS
305	2TR-3	MCHEMERY	375
		CONTRACT NO.	
		ILLINOIS FED. AID PROJECT	

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		CHECKED -	REVISION
		MZ	
		DATE -	REVISION
		10/15/2013	

SCALE =	DATE =
28,0000 / in.	10/9/2013

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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 DATE - 10/15/2013

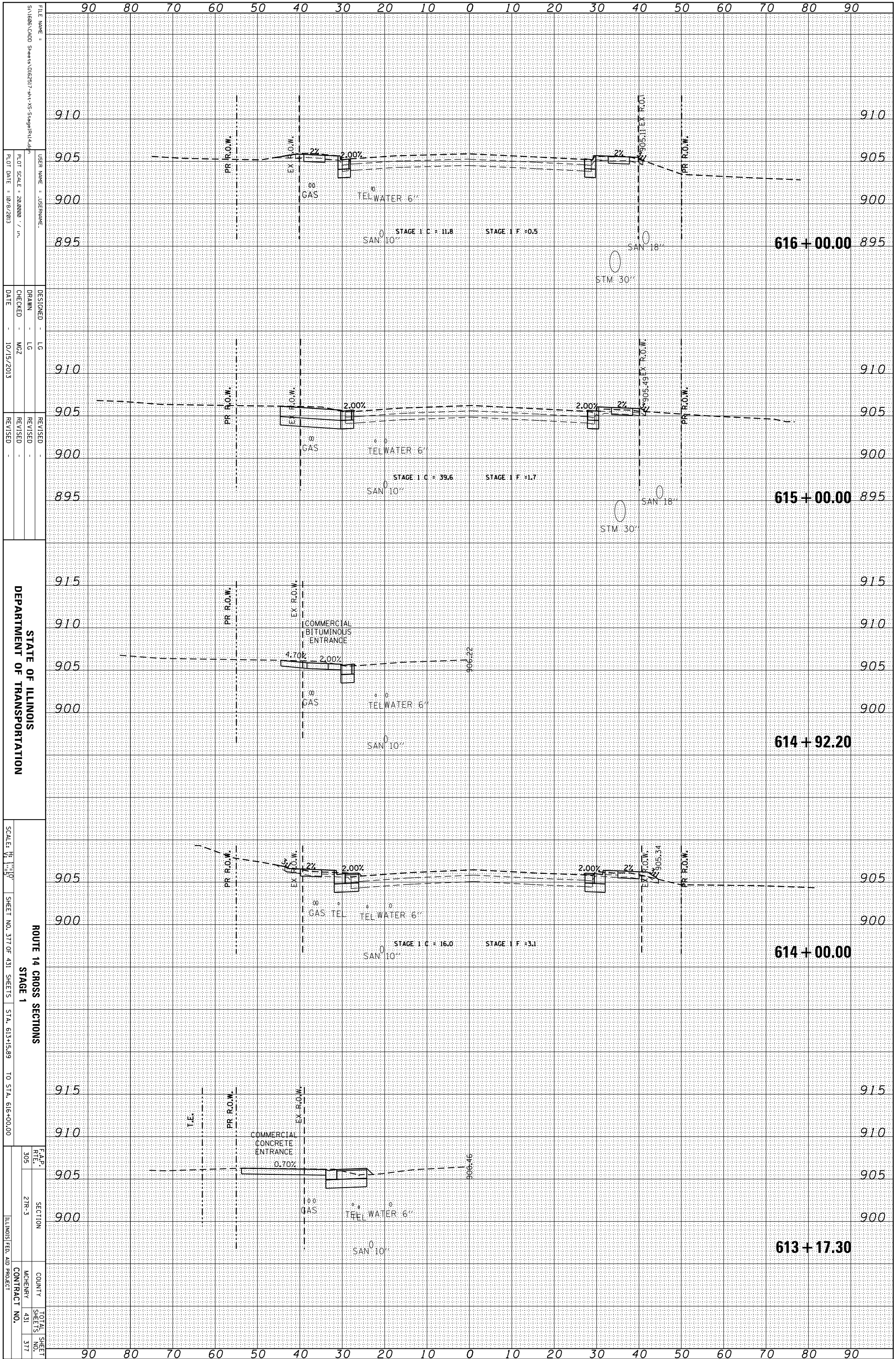
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 REVISION DESCRIPTION

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 ROUTE 14 CROSS SECTIONS  
 STAGE 1  
 SCALE: 1" = 10'  
 SHEET NO. 376 OF 431 SHEETS  
 STA. 609+00.00 TO STA. 613+00.00

F.A.P. R/L	SECTION	COUNTY	TOTAL SHEETS
305	2TR-3	MCHEMERY	431
			376

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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 PLOT DATE = 10/9/2013

DESIGNED - LG  
 DRAWN - LG  
 CHECKED - MZ  
 DATE - 10/15/2013

REVISOR -  
 REVISION -  
 REVISION -  
 REVISION -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90

910 910

905 905

900 900

895 895 **616 + 00.00**

910 910

905 905

900 900

895 895 **615 + 00.00**

915 915

910 910

905 905

900 900

**614 + 92.20**

905 905

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**614 + 00.00**

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905 905

900 900

**613 + 17.30**

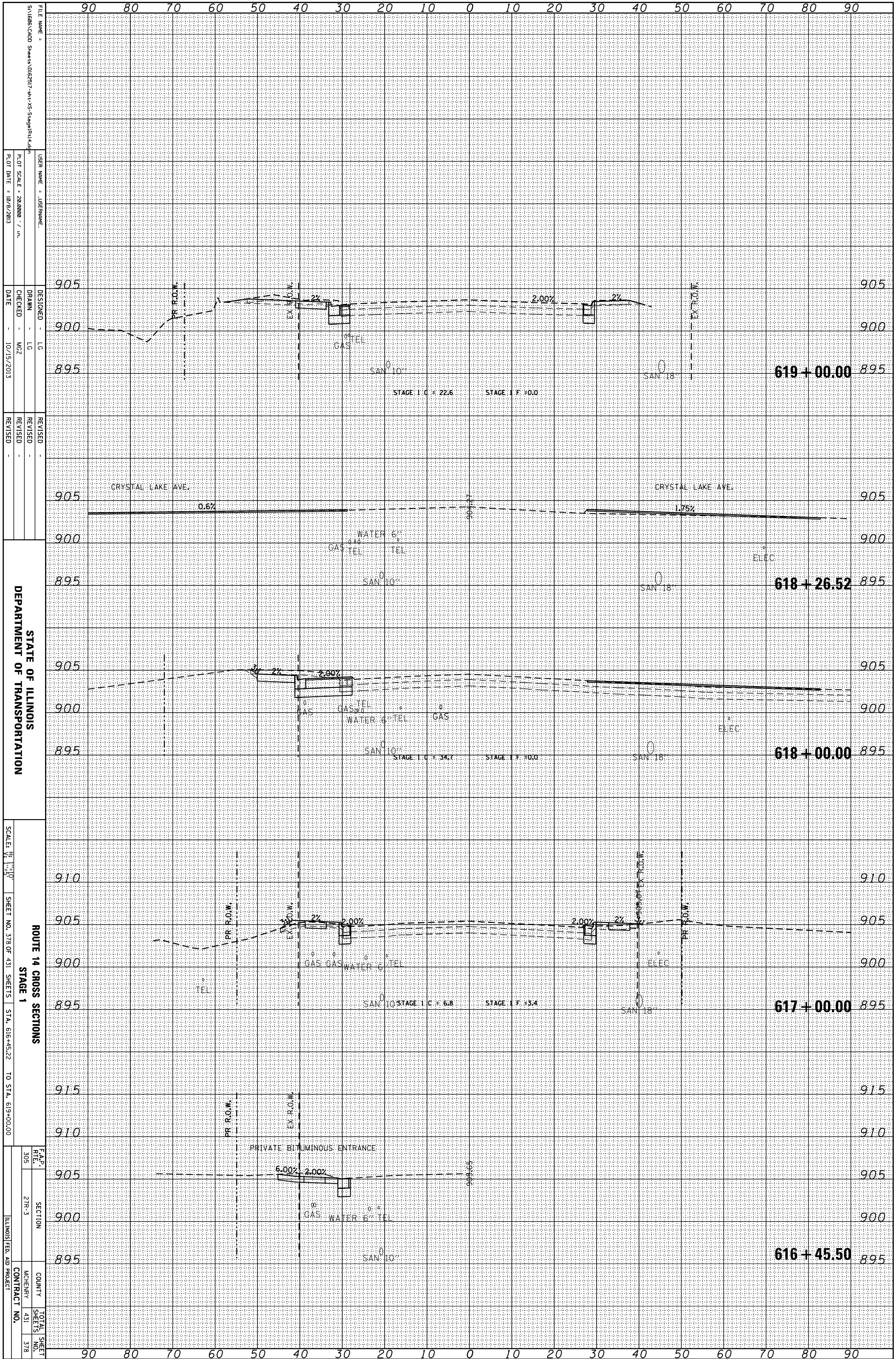
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ROUTE 14 CROSS SECTIONS  
 STAGE 1  
 SCALE: 1" = 50'  
 SHEET NO. 377 OF 431 SHEETS  
 STA. 613+15.89 TO STA. 616+00.00

F.A.P. R.T.L.	SECTION	COUNTY	TOTAL SHEETS
305	2TR-3	MCHEMERY 431	377
ILLINOIS FED. AID PROJECT		CONTRACT NO.	

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

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



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REVISIONS  
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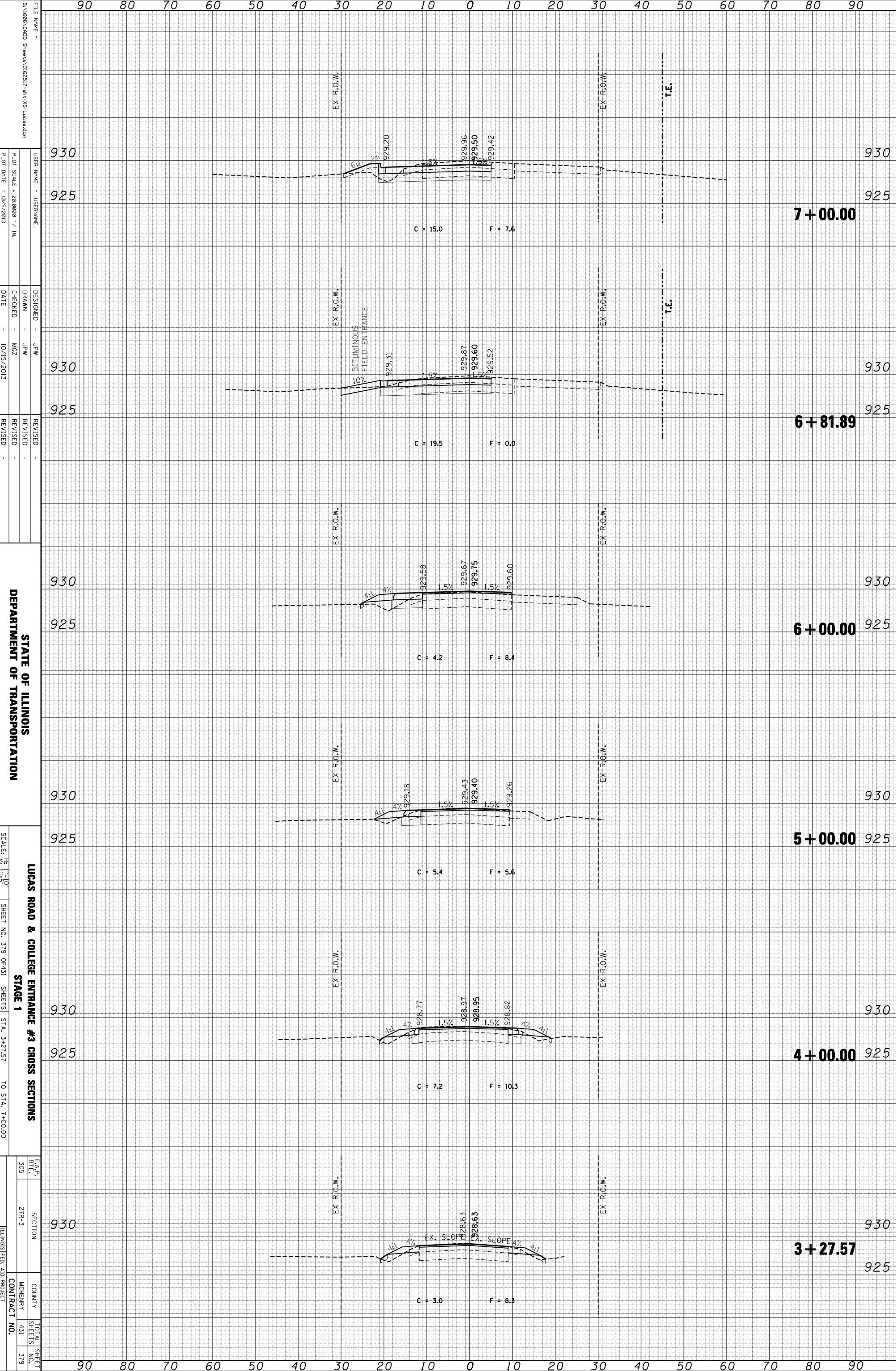
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
 STAGE 1  
 SCALE: 1" = 50'  
 SHEET NO. 378 OF 431 SHEETS  
 STA. 616+45.22 TO STA. 619+00.00

F.A.P. SECTION TOTAL SHEET  
 R.L. COUNTY SHEETS NO.  
 305 27R-3 431 378  
 ILLINOIS FED. AID PROJECT CONTRACT NO.

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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 REVISIONS

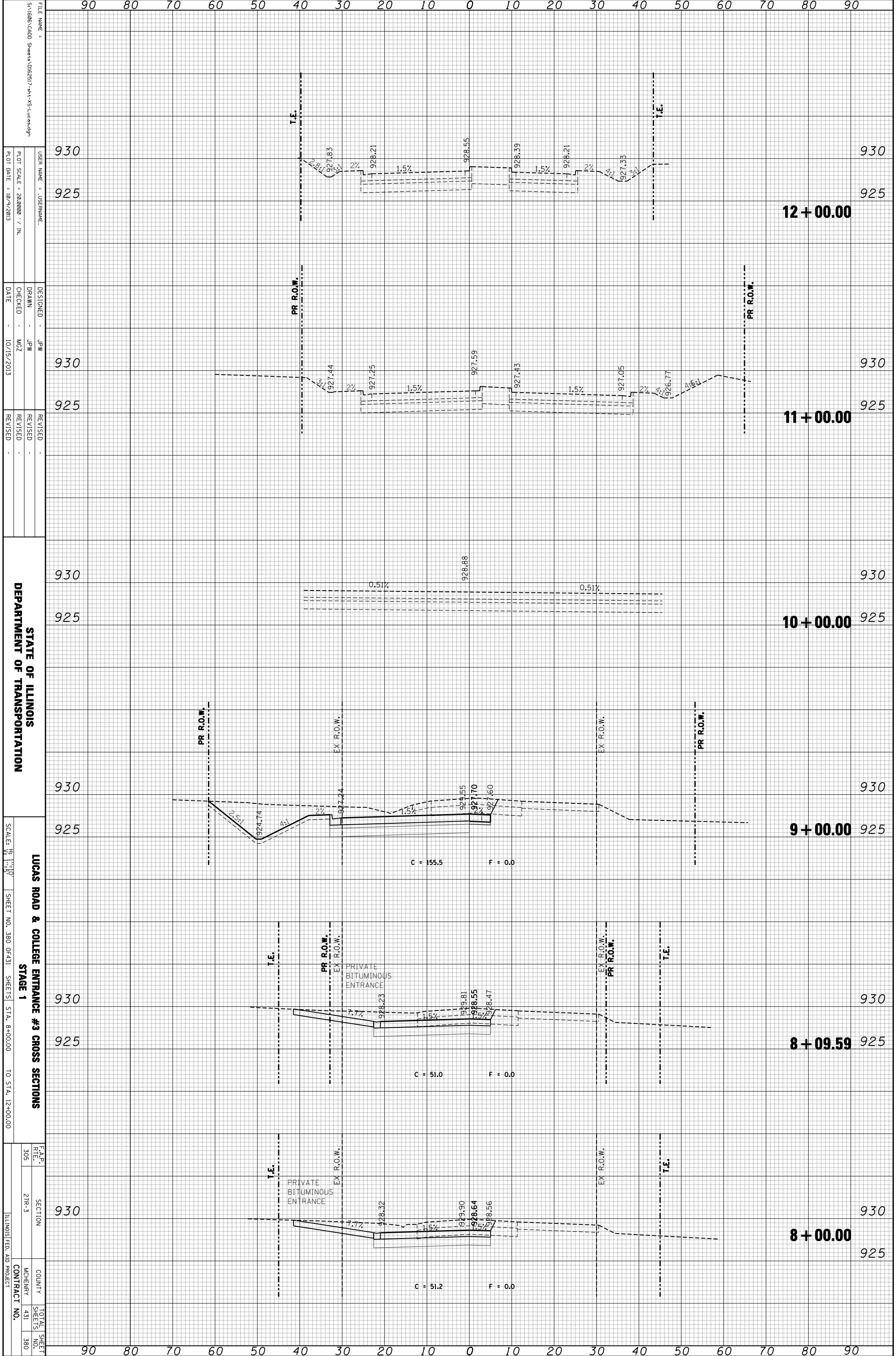
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

LUCAS ROAD & COLLEGE ENTRANCE #3 CROSS SECTIONS  
 STAGE 1

SCALE: 1" = 10'	SHEET NO. 379 OF 431	SHEETS 379 TO 379	TO STA. 7+00.00
F.A.P. R.T.E. 305	SECTION 21R-3	COUNTY MCHENNY	TOTAL SHEET NO. 379
ILLINOIS FED. AID PROJECT			CONTRACT NO. 431

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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 PLOT DATE = 10/9/2013

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

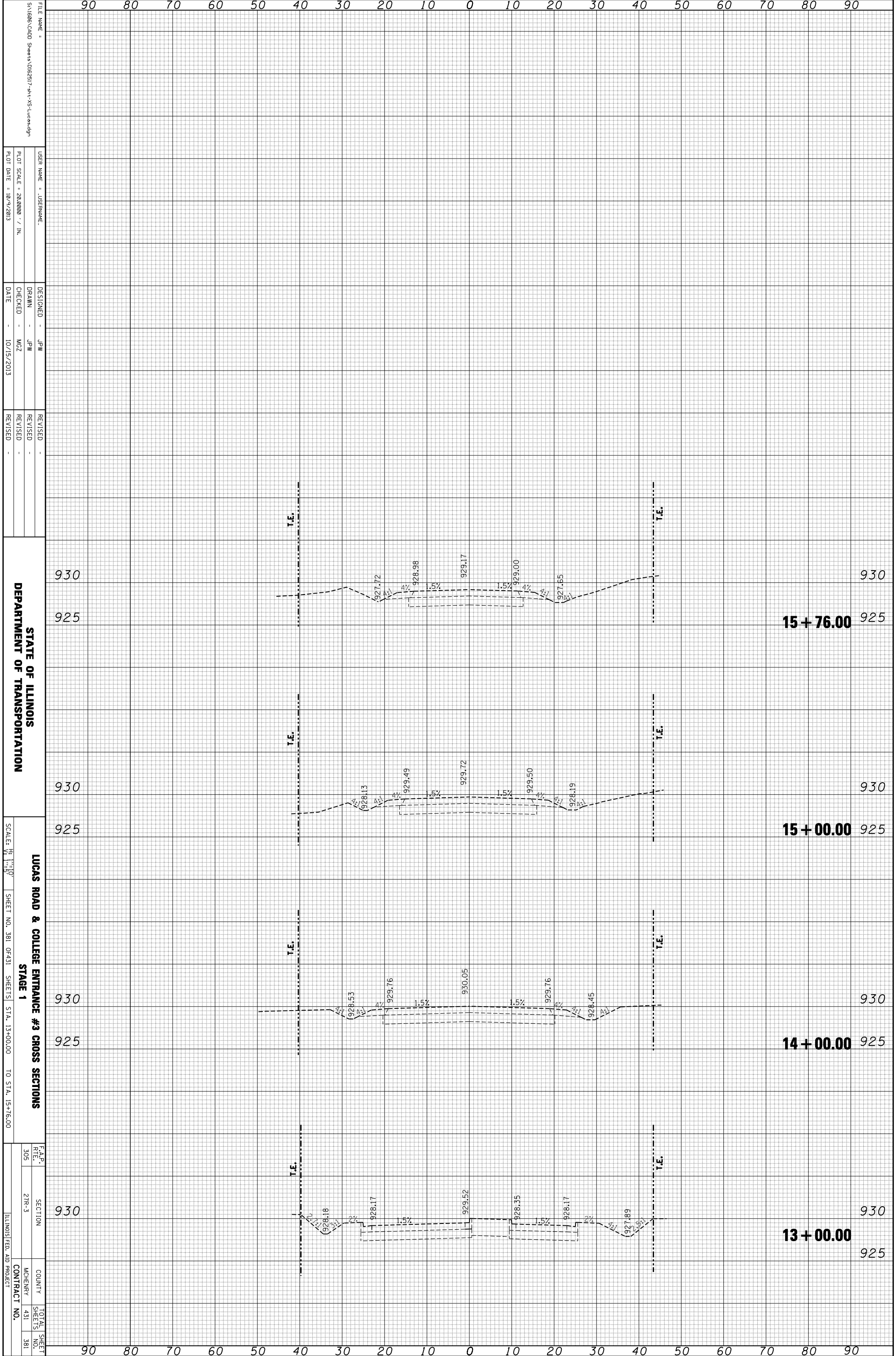
LUCAS ROAD & COLLEGE ENTRANCE #3 CROSS SECTIONS  
 STAGE 1  
 SCALE: 1" = 10'  
 SHEET NO. 380 OF 431 SHEETS STA. 8+00.00 TO STA. 12+00.00

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEET NO.
305	21R-3	MCHEMERY	431
CONTRACT NO.			380
ILLINOIS FED. AID PROJECT			



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



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 REVISIONS

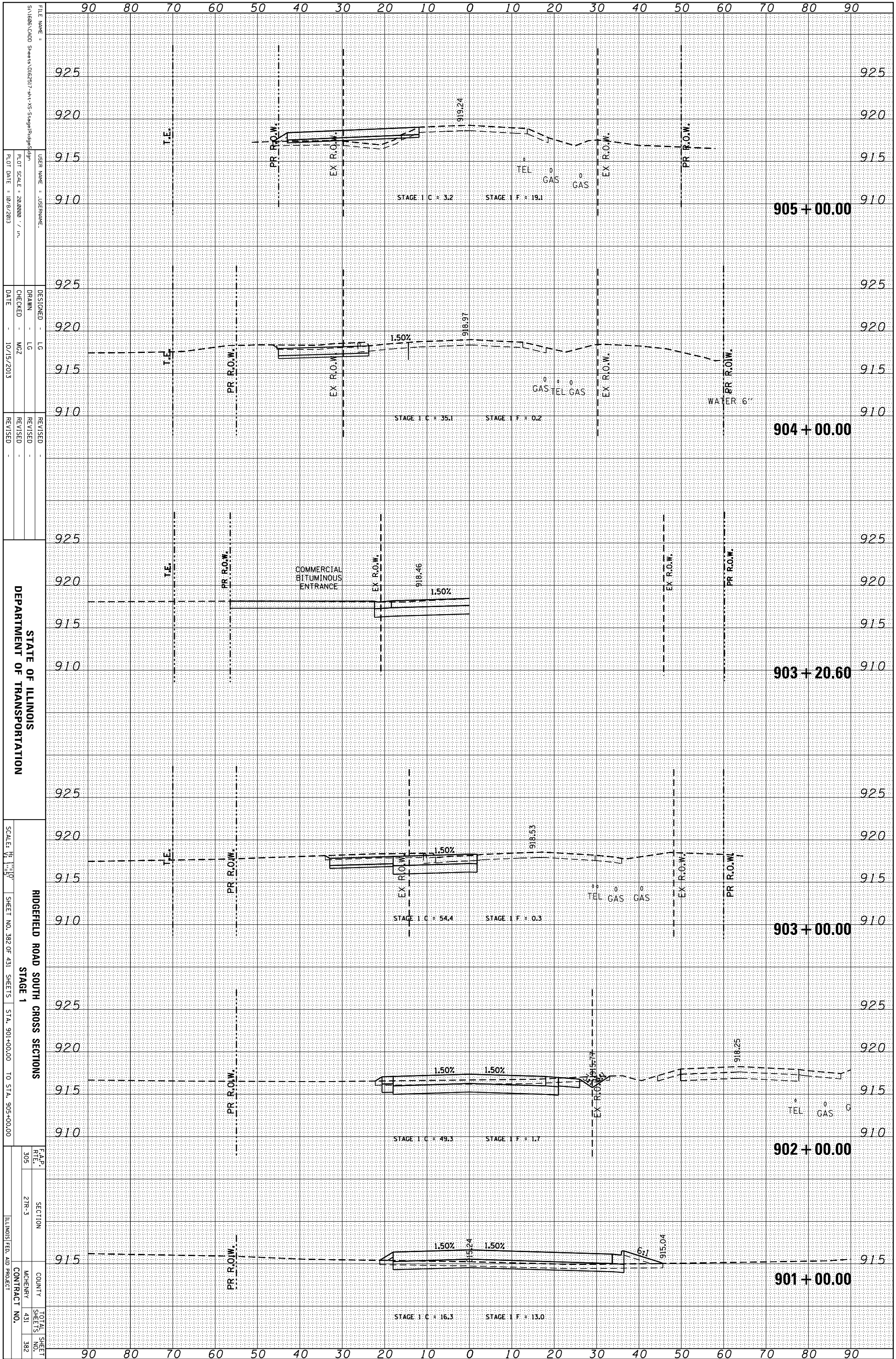
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

LUCAS ROAD & COLLEGE ENTRANCE #3 CROSS SECTIONS  
 STAGE 1  
 SCALE: 1" = 10'  
 SHEET NO. 381 OF 431  
 SHEETS 13 TO 15+76.00

F.A.P. SECTION 21R-3  
 COUNTY MCHENRY  
 CONTRACT NO. 431 381  
 ILLINOIS FED. AID PROJECT

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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 CHECKED - MZ  
 DATE - 10/15/2013

REVISIONS  
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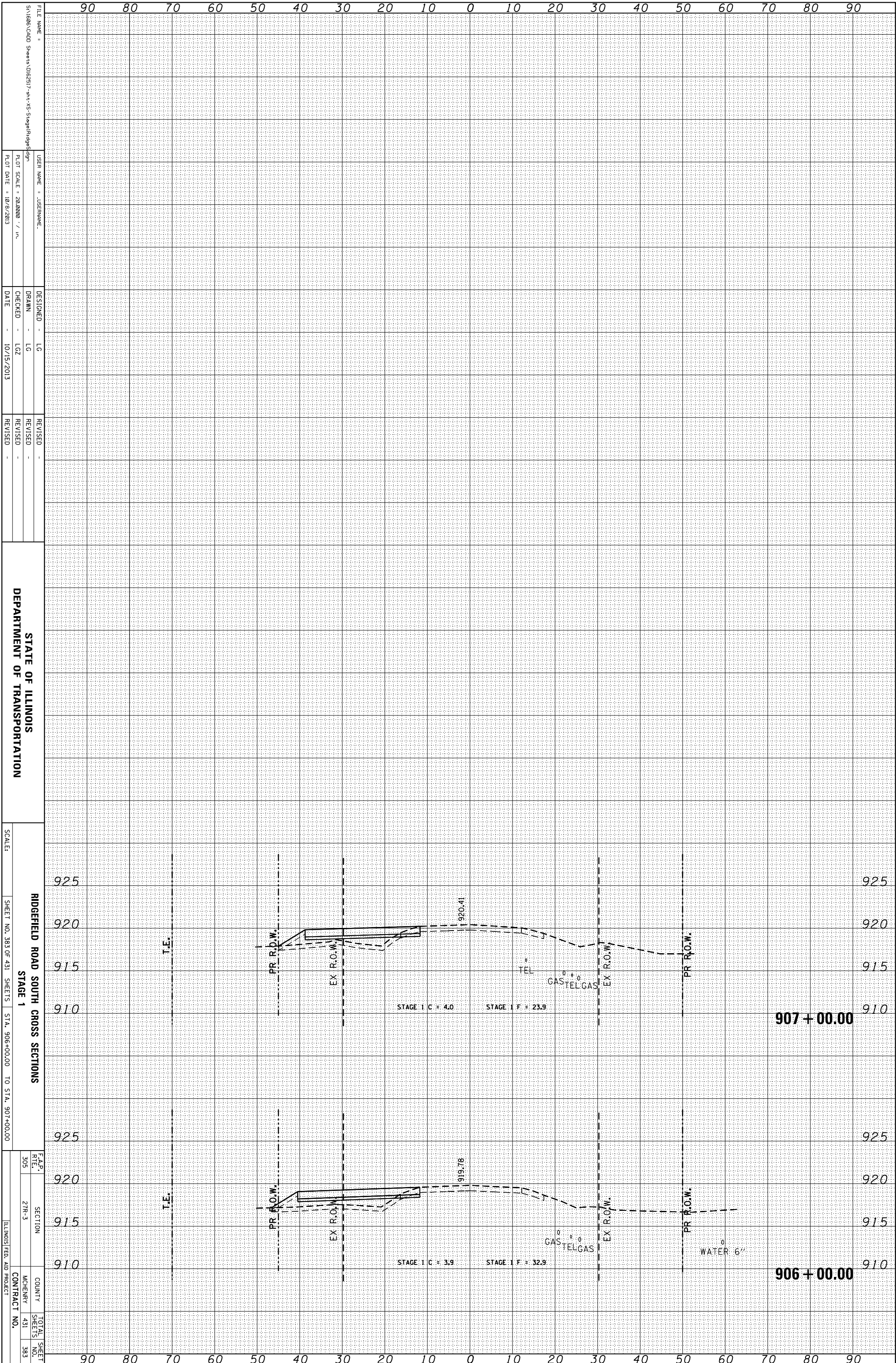
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE: HORIZ. 1"=50'  
 VERT. 1"=10'  
 RIDGEFIELD ROAD SOUTH CROSS SECTIONS  
 STAGE 1  
 SHEET NO. 382 OF 431 SHEETS  
 STA. 901+00.00 TO STA. 905+00.00

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEET NO.
305	27R-3	MCHEMERY	431
		CONTRACT NO.	382
		ILLINOIS FED. AID PROJECT	

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		



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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

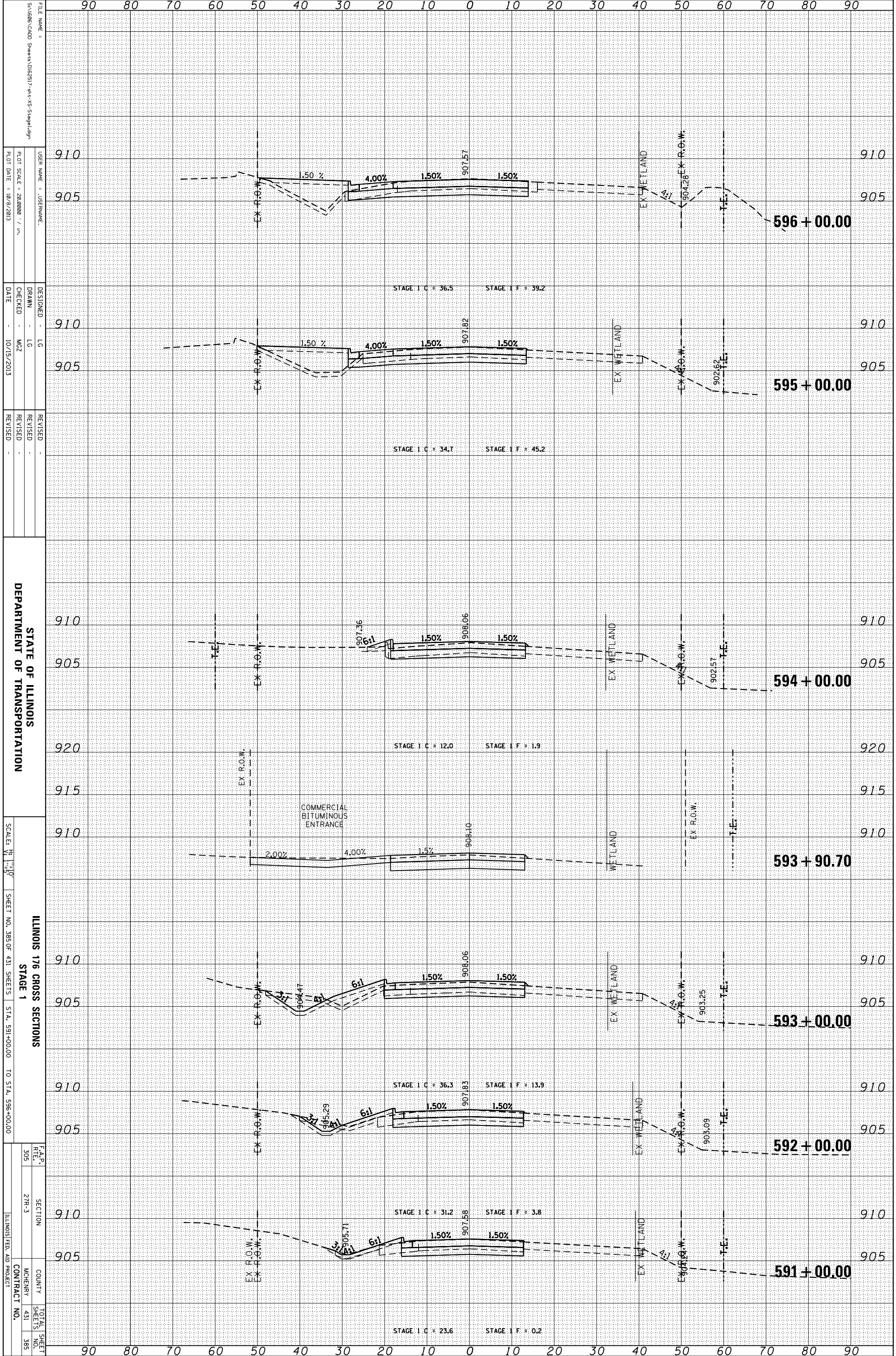
SCALE: RIDGEFIELD ROAD SOUTH CROSS SECTIONS  
 SHEET NO. 383 OF 431 SHEETS STA. 906+00.00 TO STA. 907+00.00  
 STAGE 1

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEET NO.
305	2TR-3	MCHEMERY	431
			383
		CONTRACT NO.	
		ILLINOIS FED. AID PROJECT	



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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 PLOT SCALE = 28.0000 / in.  
 PLOT DATE = 10/9/2013

DESIGNED - LG  
 DRAWN - LG  
 CHECKED - MZ  
 DATE - 10/15/2013

REVISOR -  
 REVISION -  
 REVISION -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

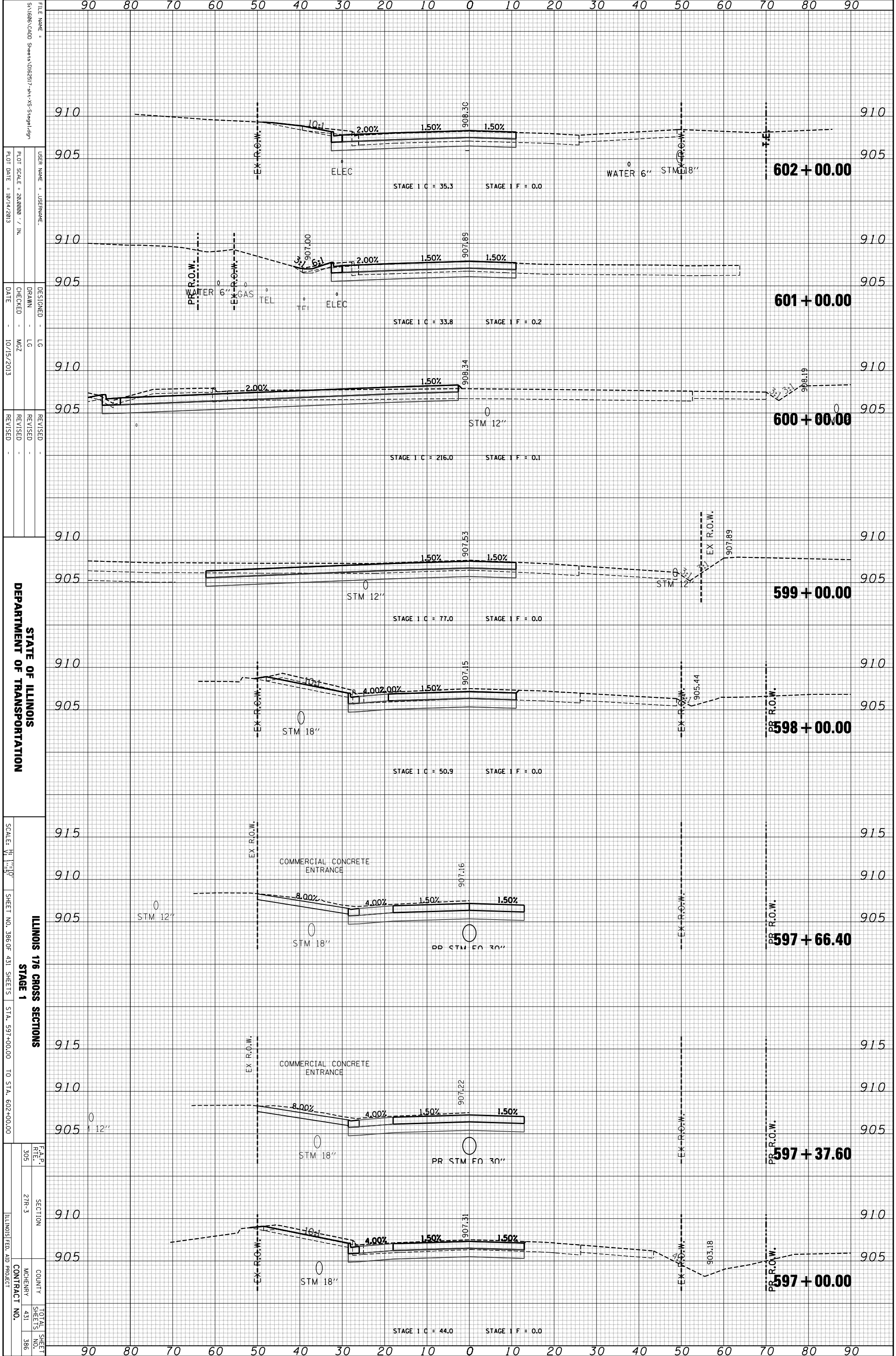
ILLINOIS 176 CROSS SECTIONS  
 STAGE 1

SCALE: 1" = 10'  
 SHEET NO. 385 OF 431 SHEETS STA. 591+00.00 TO STA. 596+00.00

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEET NO.
305	21R-3	MCHEMERY	431
		CONTRACT NO.	385

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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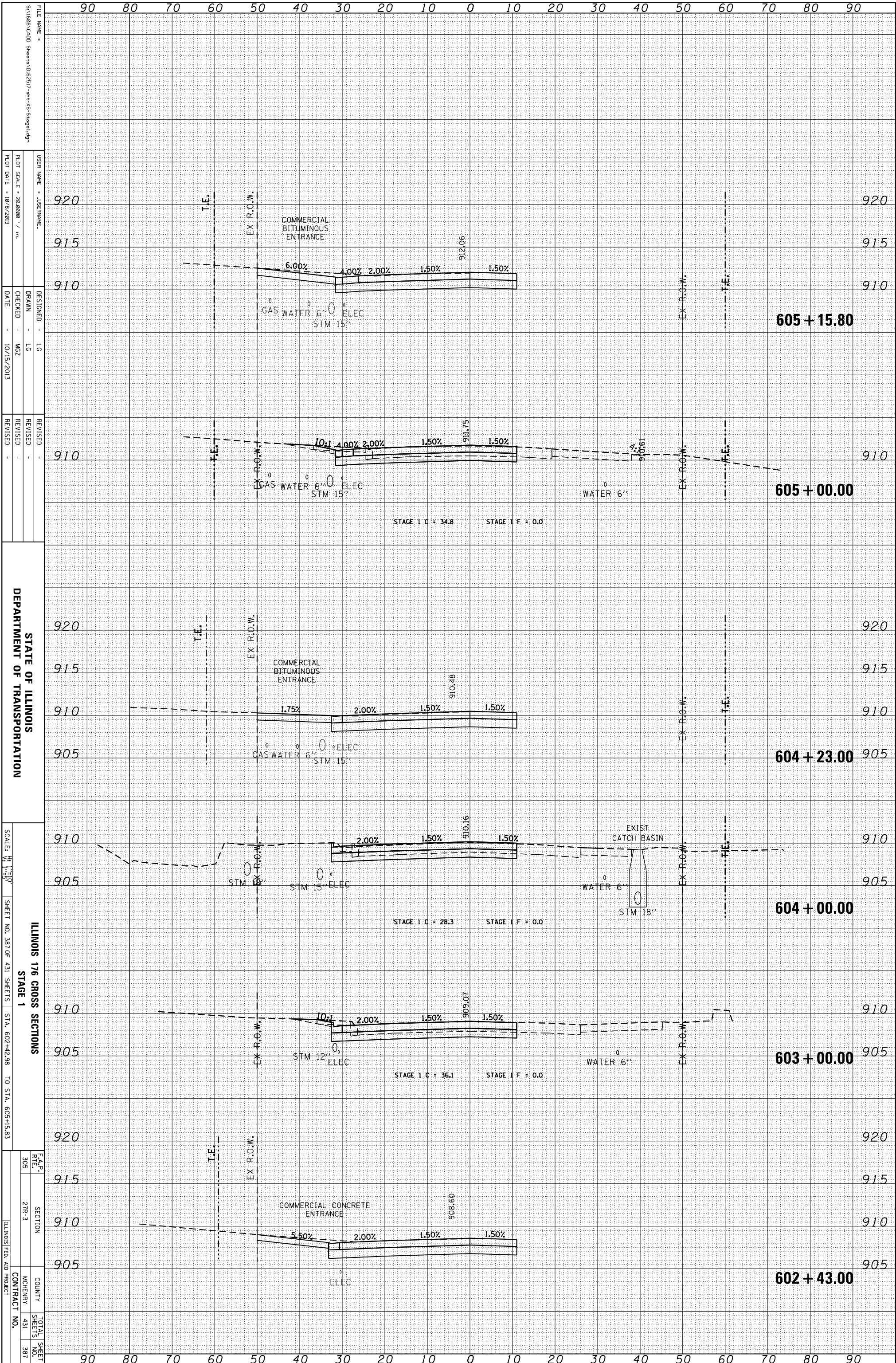
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 CHECKED - MZ  
 REVISIONS -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 SCALE: 1" = 10'  
 SHEET NO. 386 OF 431 SHEETS  
 STA. 597+00.00 TO STA. 602+00.00

ILLINOIS 176 CROSS SECTIONS  
 STAGE 1  
 SECTION 27R-3  
 COUNTY MCHENRY  
 CONTRACT NO. ILLINOIS FED. AID PROJECT  
 TOTAL SHEET NO. 386

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



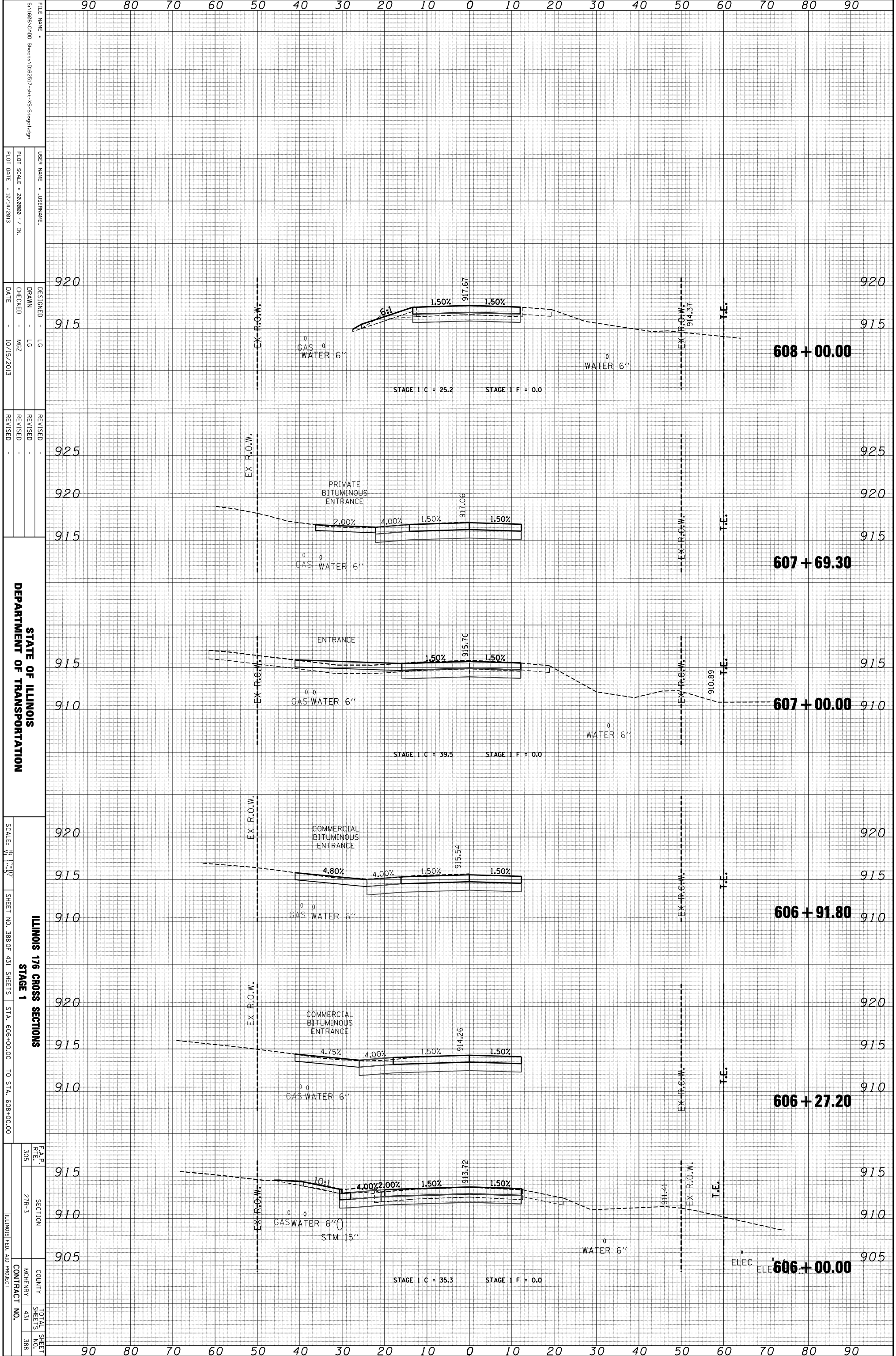
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ILLINOIS 176 CROSS SECTIONS  
STAGE 1  
SCALE: 1" = 10'  
SHEET NO. 387 OF 431 SHEETS  
STA. 602+42.98 TO STA. 605+15.83

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS
305	21R-3	MCHEMERY	387
ILLINOIS FED. AID PROJECT			CONTRACT NO.

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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 PLOT DATE: 10/14/2013

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 CHECKED: MZ  
 DATE: 10/15/2013

REVISIONS:  
 REVISION NO. | DATE | BY | DESCRIPTION

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 ILLINOIS 176 CROSS SECTIONS  
 STAGE 1  
 SCALE: 1" = 10'  
 SHEET NO. 388 OF 431 SHEETS  
 STA. 606+00.00 TO STA. 608+00.00

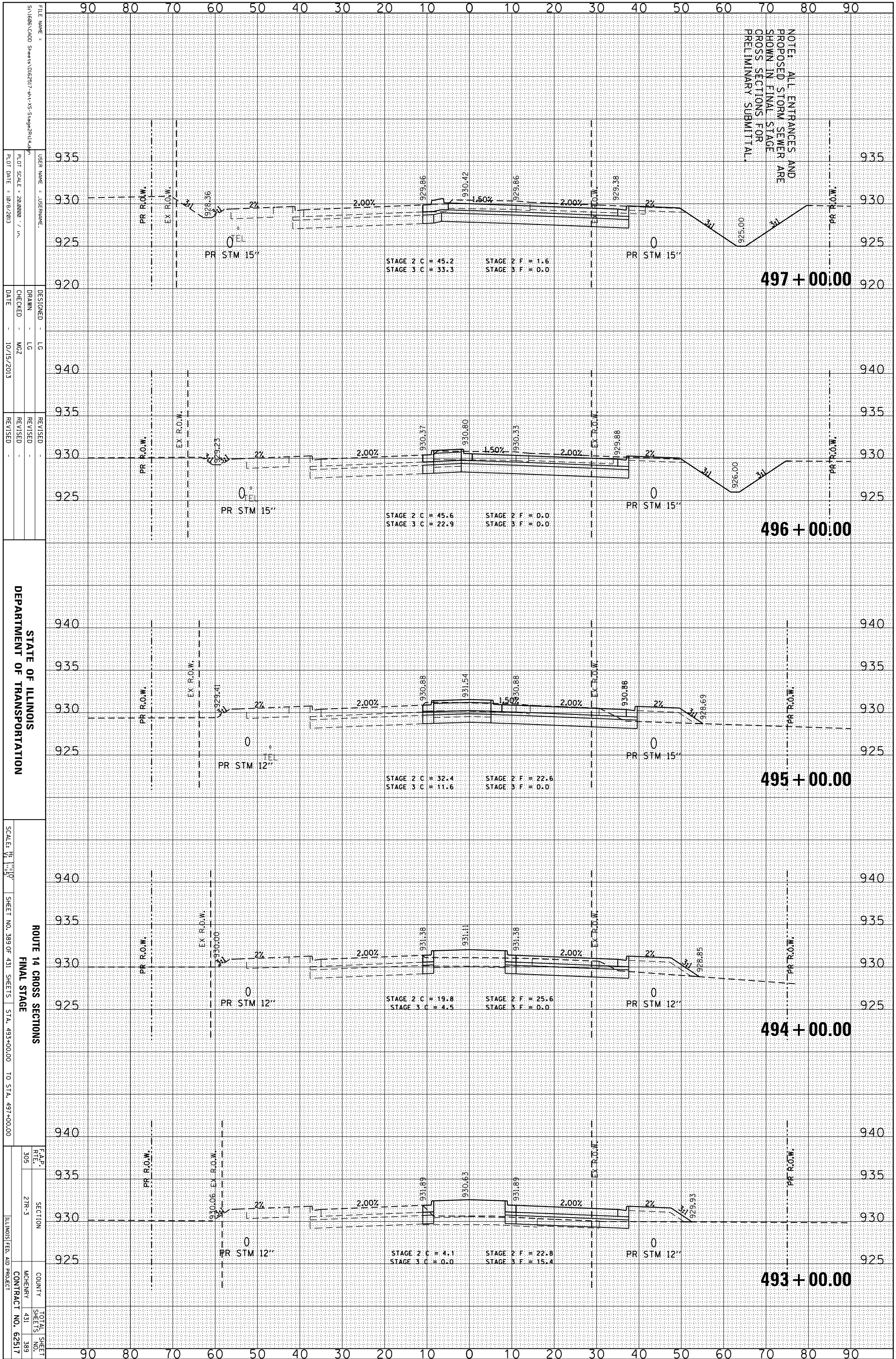
F.A.P. R/E.	SECTION	COUNTY	TOTAL SHEET NO.
305	27R-3	MCHEMERY	431
			388

ILLINOIS FED. AID PROJECT CONTRACT NO.



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

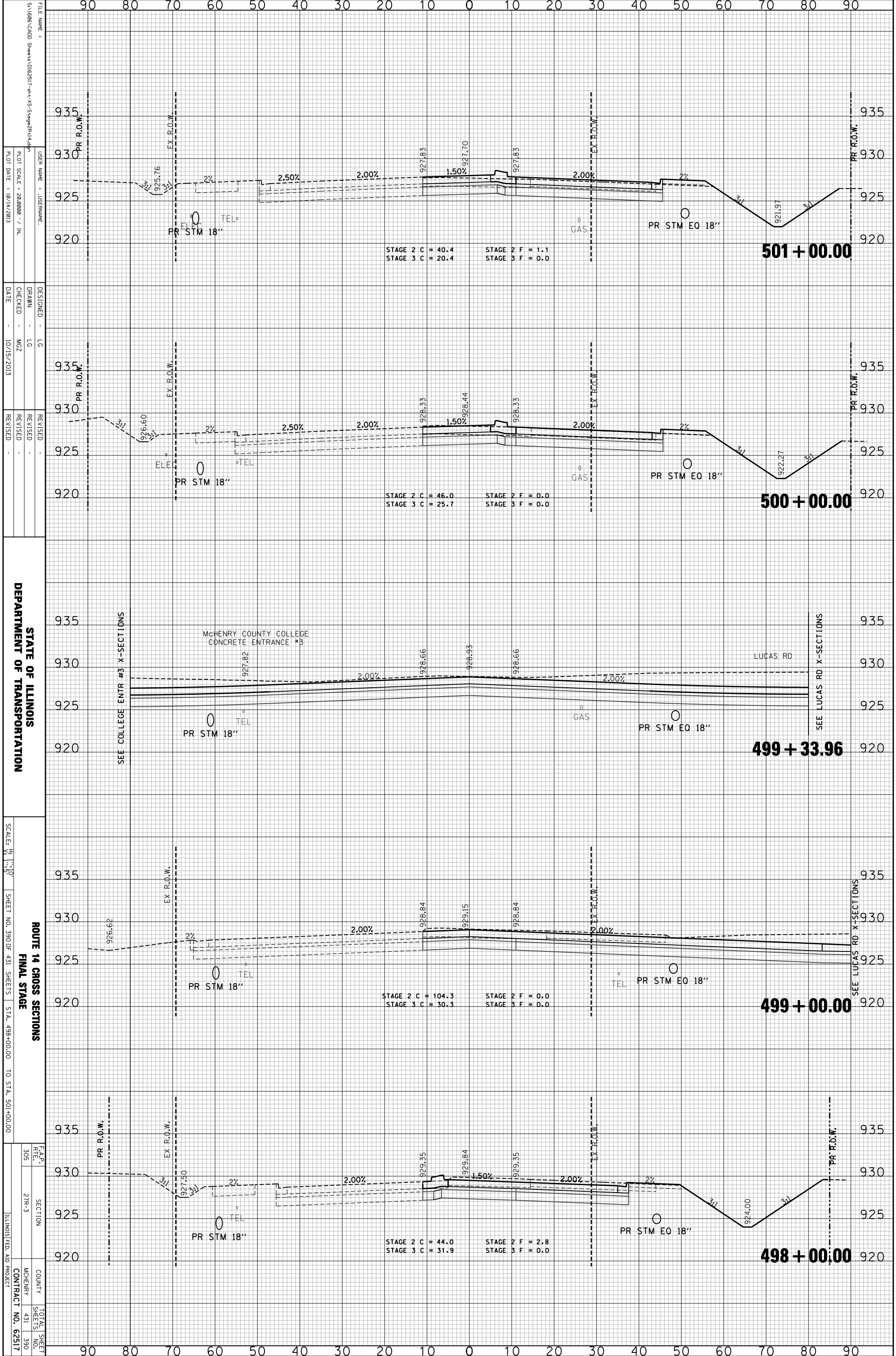
ROUTE 14 CROSS SECTIONS  
FINAL STAGE

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEET NO.
305	27R-3	MCHEMERY	389
SHEET NO. 389 OF 431 SHEETS		CONTRACT NO.	62517
SCALE: 1" = 10'		ILLINOIS FED. AID PROJECT	

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PLT DATE = 10/9/2013	MOZ	10/15/2013	

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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	AREAS		
	CHECKED		



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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
 FINAL STAGE

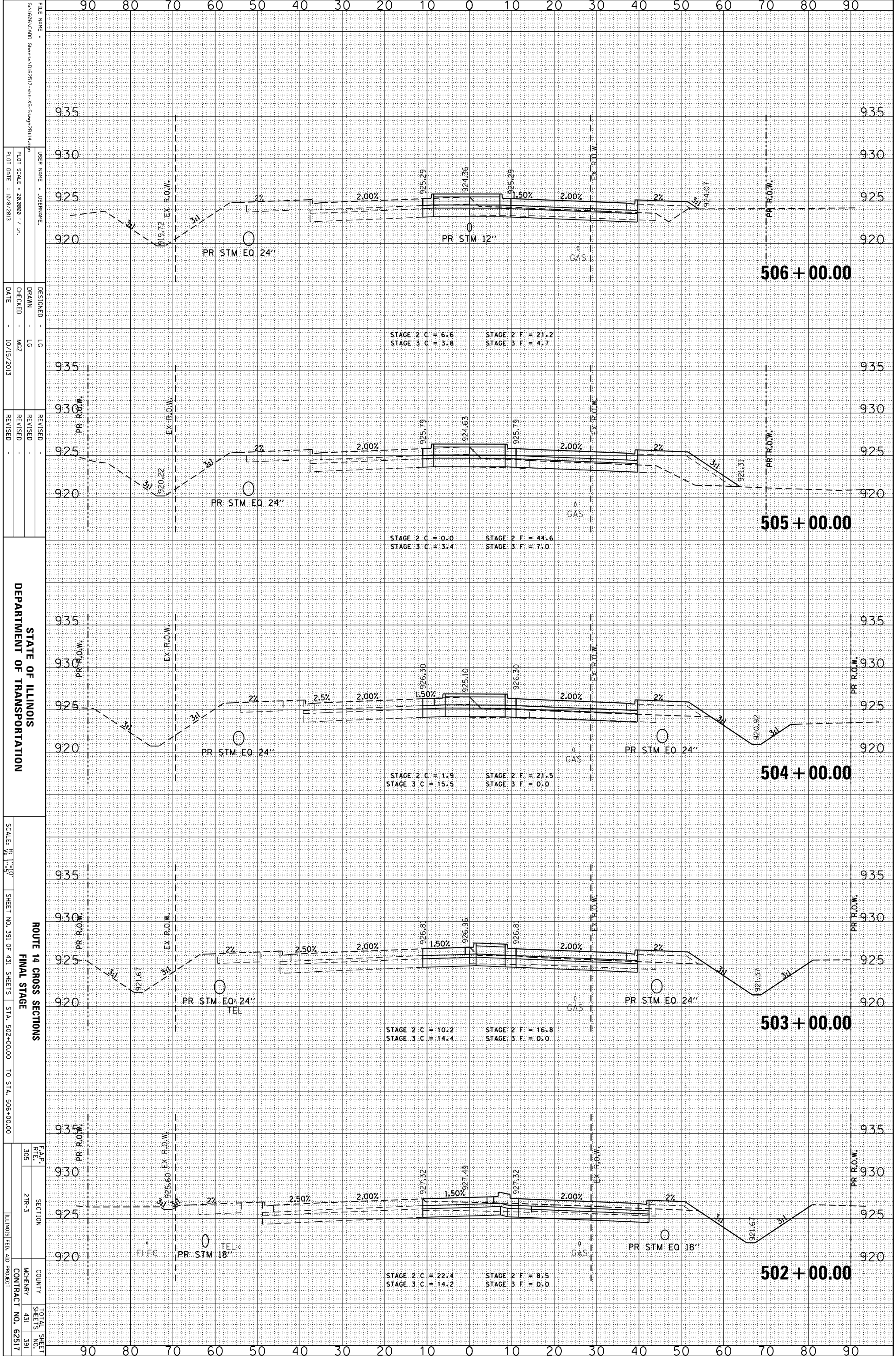
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 SHEET NO. 390 OF 431 SHEETS STA. 498+00.00 TO STA. 501+00.00

F.A.P. R/L	SECTION	TOTAL SHEET NO.
305	21R-3	431
		390

ILLINOIS FED. AID PROJECT CONTRACT NO. 62517

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
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FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90

935 935

930 930

925 925

920 920

506 + 00.00

935 935

930 930

925 925

920 920

505 + 00.00

935 935

930 930

925 925

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504 + 00.00

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503 + 00.00

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

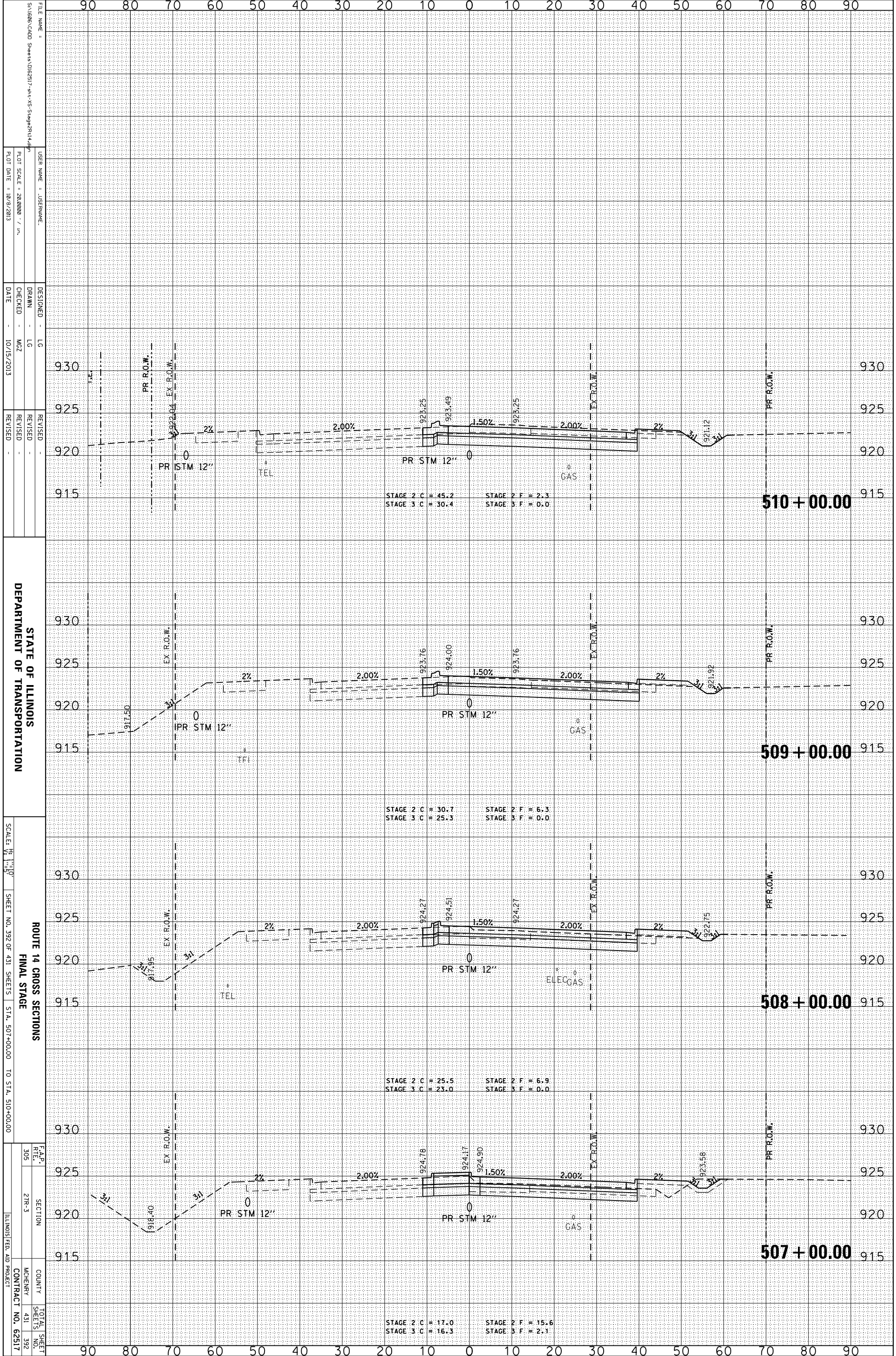
ROUTE 14 CROSS SECTIONS  
 FINAL STAGE

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS
305	27R-3	MCHEMERY	431
			391
			CONTRACT NO. 62517
			ILLINOIS FED. AID PROJECT

SCALE: 1" = 10'  
 SHEET NO. 391 OF 431 SHEETS STA. 502+00.00 TO STA. 506+00.00

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
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	AREAS _____		
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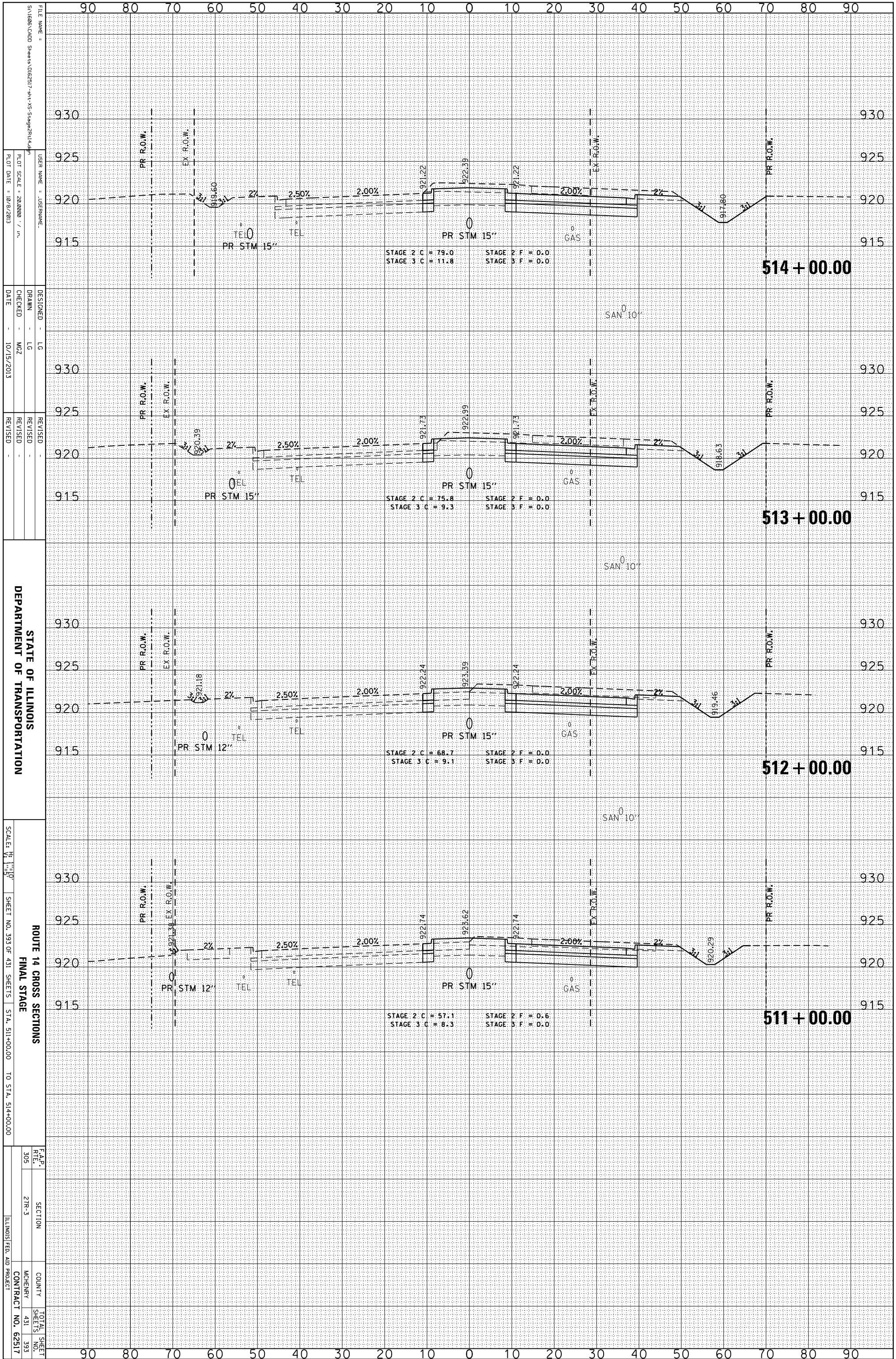
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
 FINAL STAGE  
 SCALE: 1" = 50'  
 SHEET NO. 392 OF 431 SHEETS STA. 507+00.00 TO STA. 510+00.00

F.A.P. R.T.L.	SECTION	COUNTY	TOTAL SHEET NO.
305	27R-3	MCHEMERY	431
			392
			CONTRACT NO. 62517
			ILLINOIS FED. AID PROJECT

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
FINAL STAGE

F.A.P. R.T.L.	SECTION	COUNTY	TOTAL SHEET NO.
305	27R-3	MCHEMERY	431
			393
			CONTRACT NO. 62517
			ILLINOIS FED. AID PROJECT

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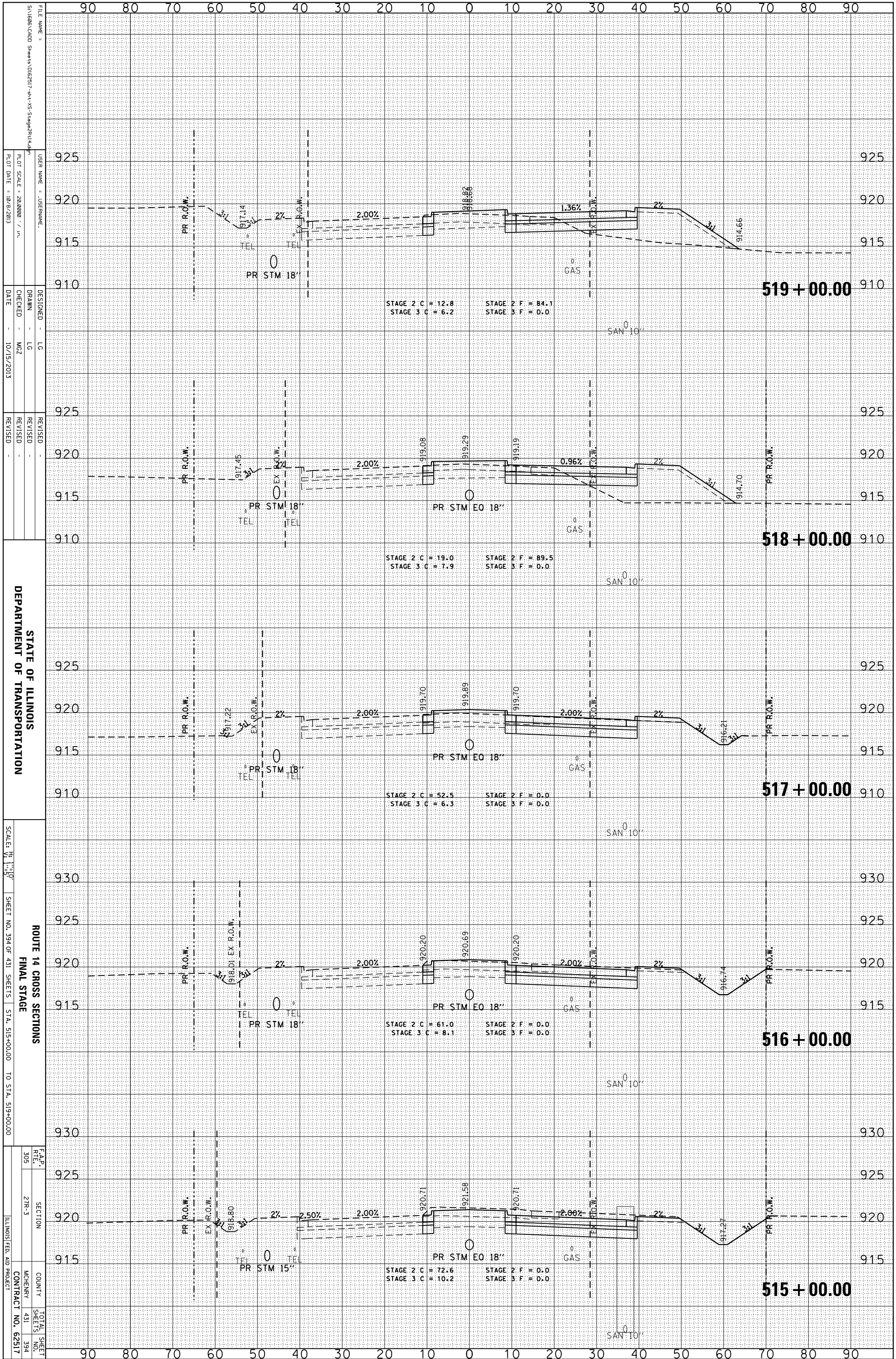
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REVISION NO. 1  
REVISION DESCRIPTION  
DATE

SCALE: HORIZONTAL = 1" = 50'  
VERTICAL = 1" = 5'

SHEET NO. 393 OF 431 SHEETS  
STA. 511+00.00 TO STA. 514+00.00

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
FINAL STAGE

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS
305	27R-3	MCHEMERY	394
SHEET NO. 394 OF 431 SHEETS		CONTRACT NO.	62517
ILLINOIS FED. AID PROJECT			

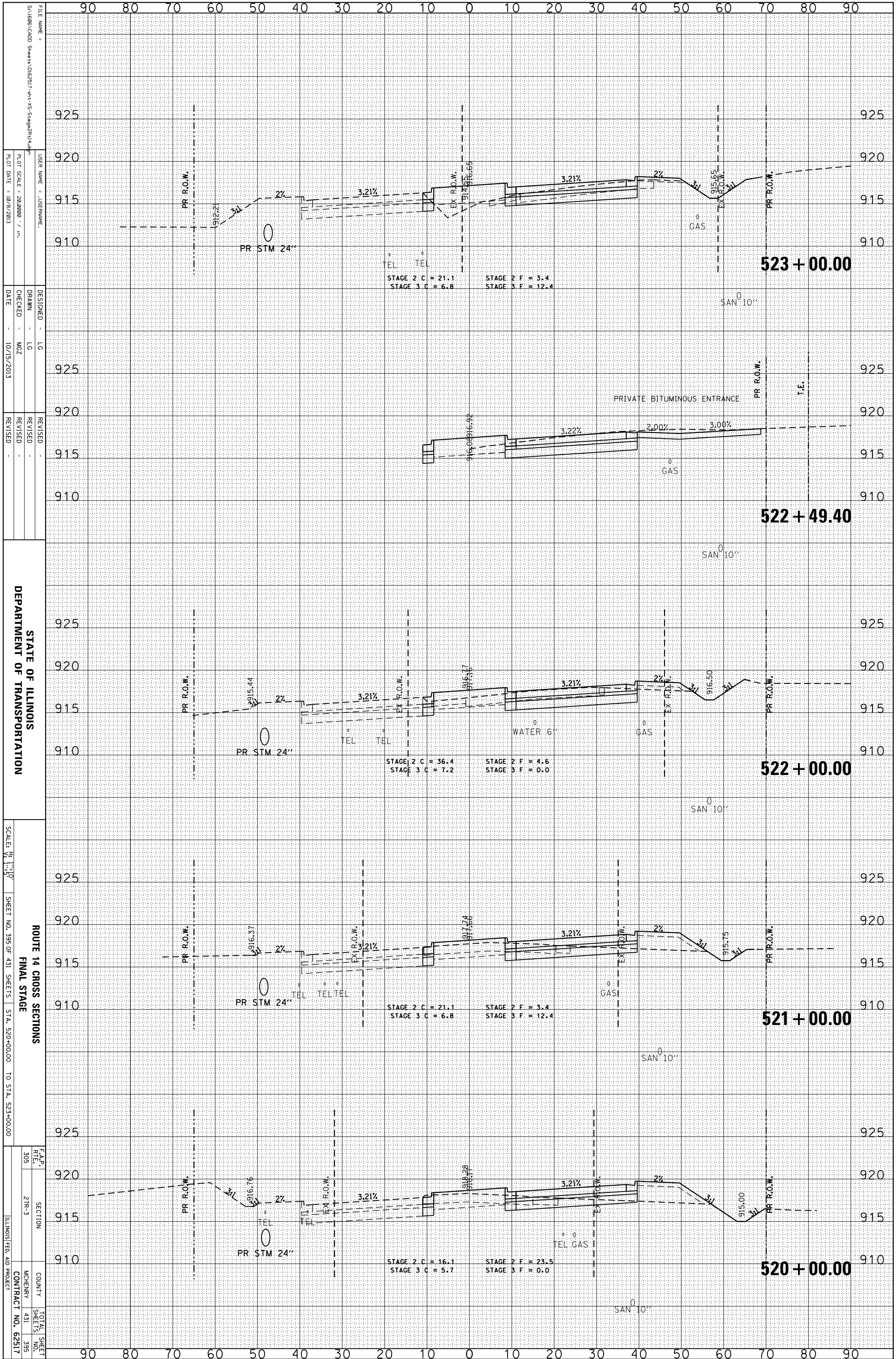
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SCALE =	1" = 20'
DATE	10/15/2013

ROUTE 14 CROSS SECTIONS  
FINAL STAGE

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
 FINAL STAGE  
 SHEET NO. 395 OF 431 SHEETS STA. 520+00.00 TO STA. 523+00.00

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS
305	27R-3	MCHEMERY	395
CONTRACT NO. 62517		ILLINOIS FED. AID PROJECT	

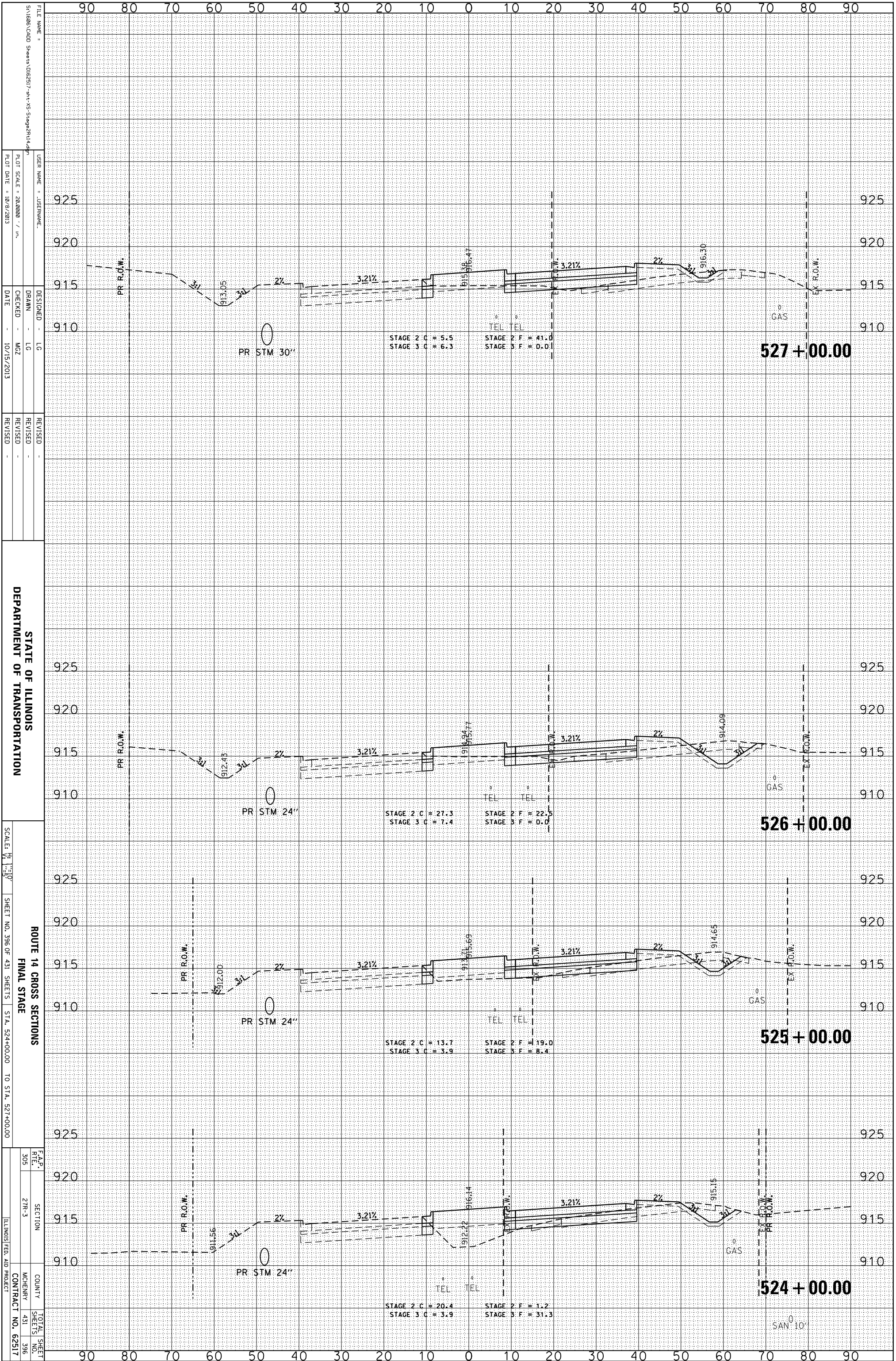
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DESIGNED - LG  
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 CHECKED - MZ  
 DATE - 10/15/2013

REVISED -  
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ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	CHECKED _____		



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
FINAL STAGE  
SHEET NO. 396 OF 431 SHEETS STA. 524+00.00 TO STA. 527+00.00

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS NO.
305	27R-3	MCHEMERY	396
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62517

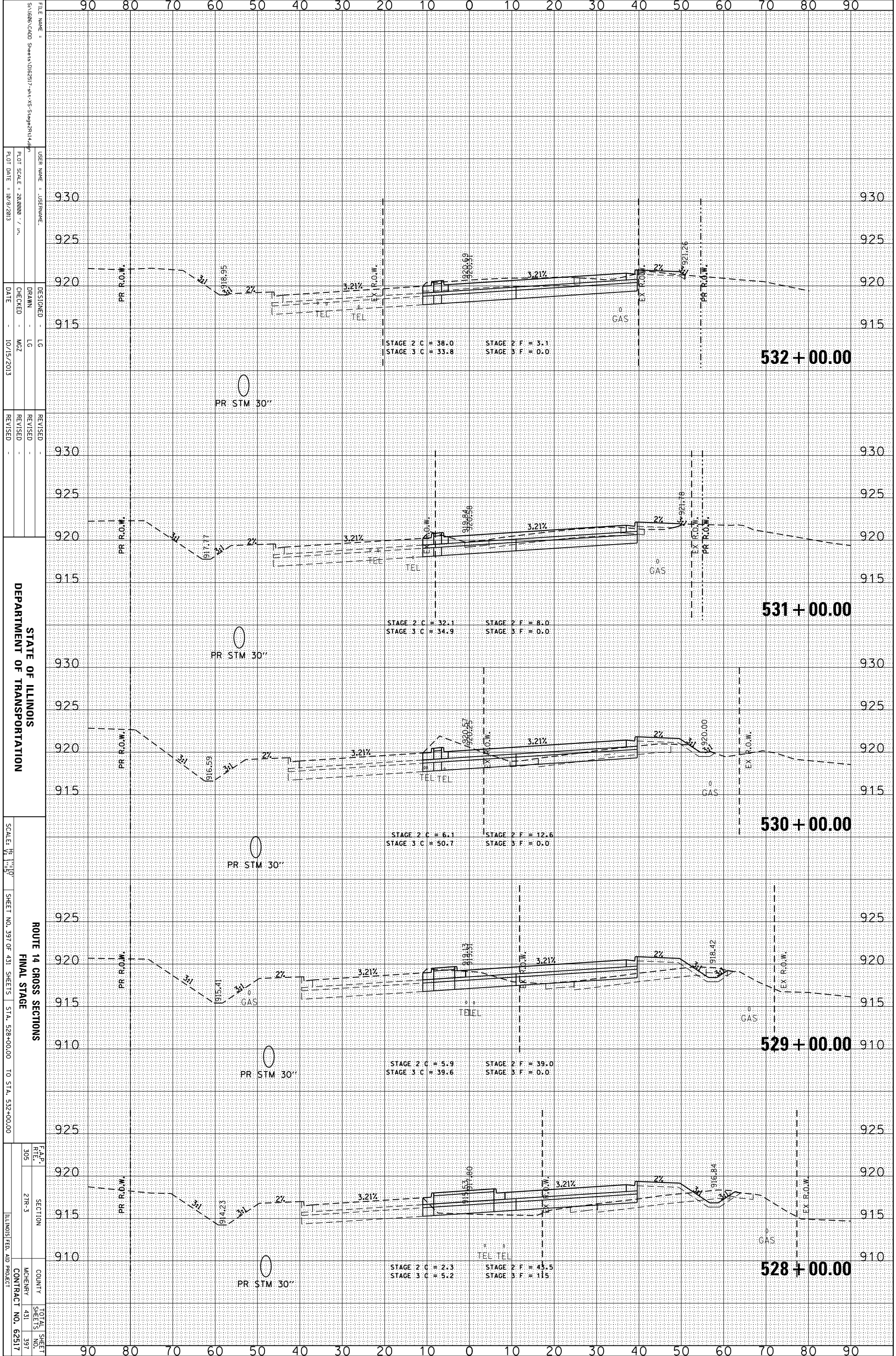
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	DATE =	10/15/2013	

REVISION	REVISION



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
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FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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	AREAS		
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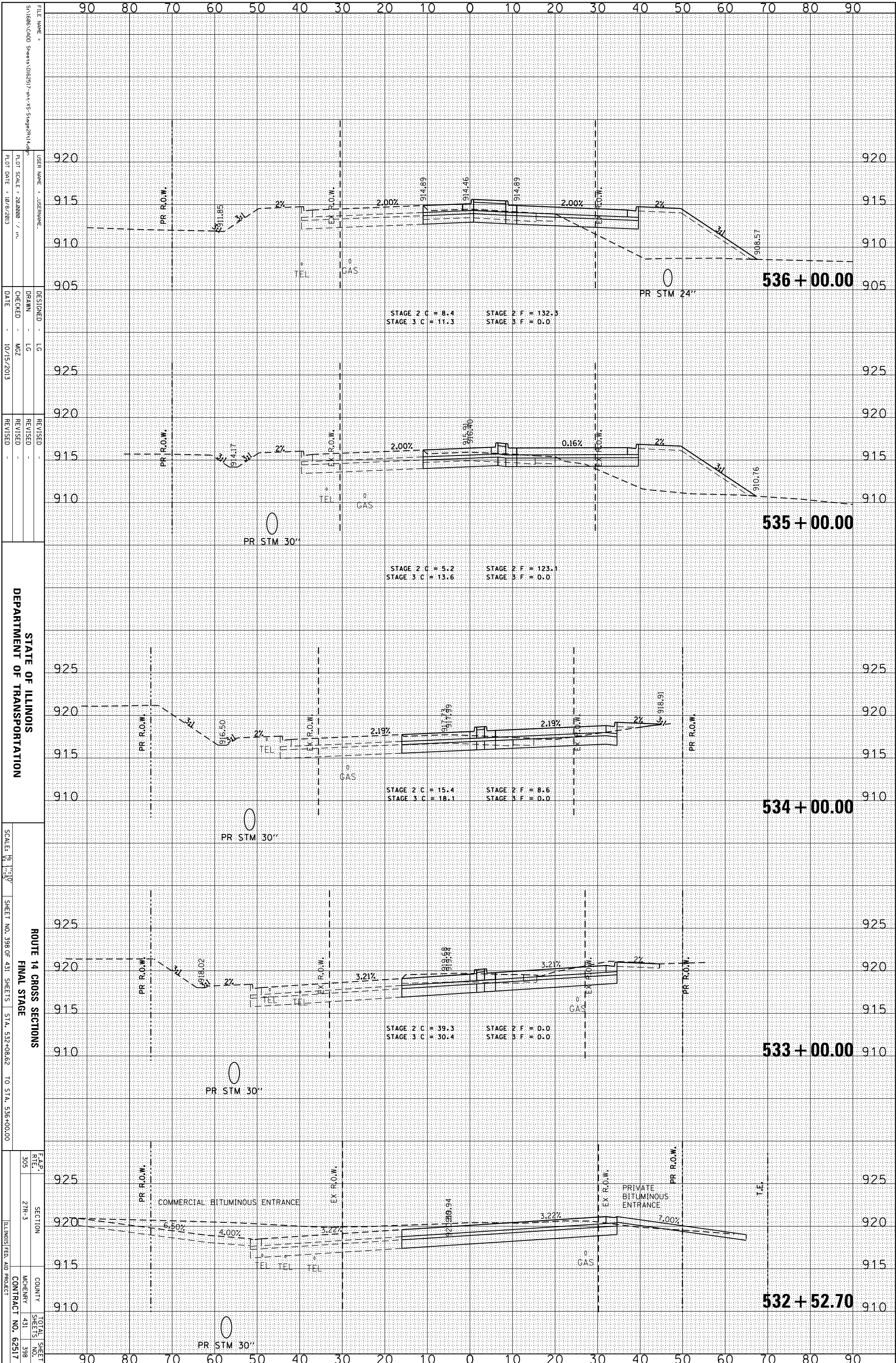
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 ROUTE 14 CROSS SECTIONS  
 FINAL STAGE  
 SCALE: 1" = 50'  
 SHEET NO. 397 OF 431 SHEETS STA. 528+00.00 TO STA. 532+00.00

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEET NO.
305	2TR-3	MCHEMERY	431
			397
			CONTRACT NO. 62517
			ILLINOIS FED. AID PROJECT

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
FINAL STAGE

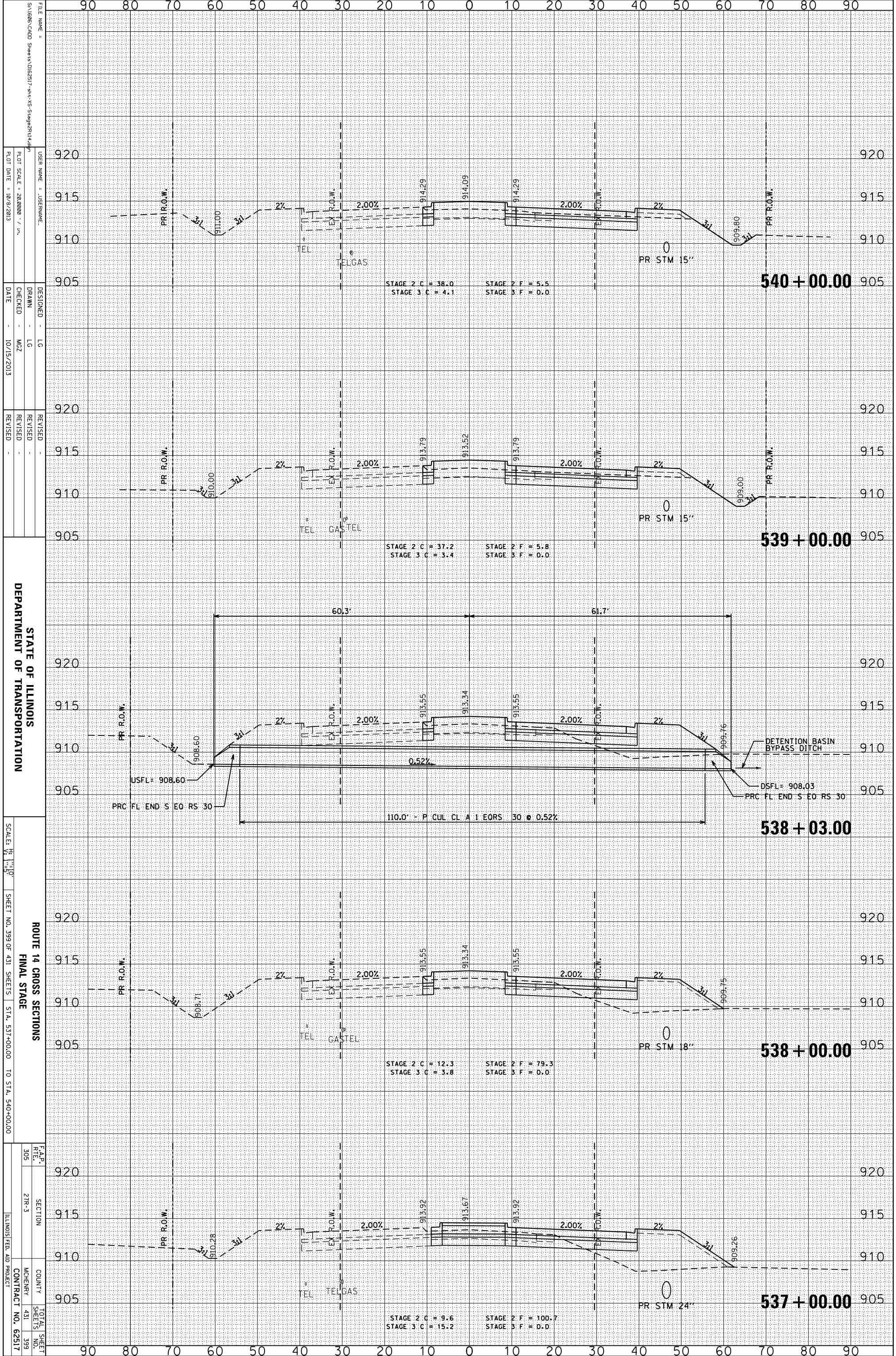
F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS
305	27R-3	MCHEMERY	398
		CONTRACT NO.	62517
		ILLINOIS FED. AID PROJECT	

FILE NAME =	USER NAME =	DESIGNED -	REVISION
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		DRAWN -	REVISION
		LG	
		CHECKED -	REVISION
		MZ	
		DATE -	
		10/15/2013	

SCALE =	1" = 50'
DATE =	10/9/2013
SHEET NO.	398 OF 431 SHEETS
STA.	532+08.62 TO STA. 536+00.00

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
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FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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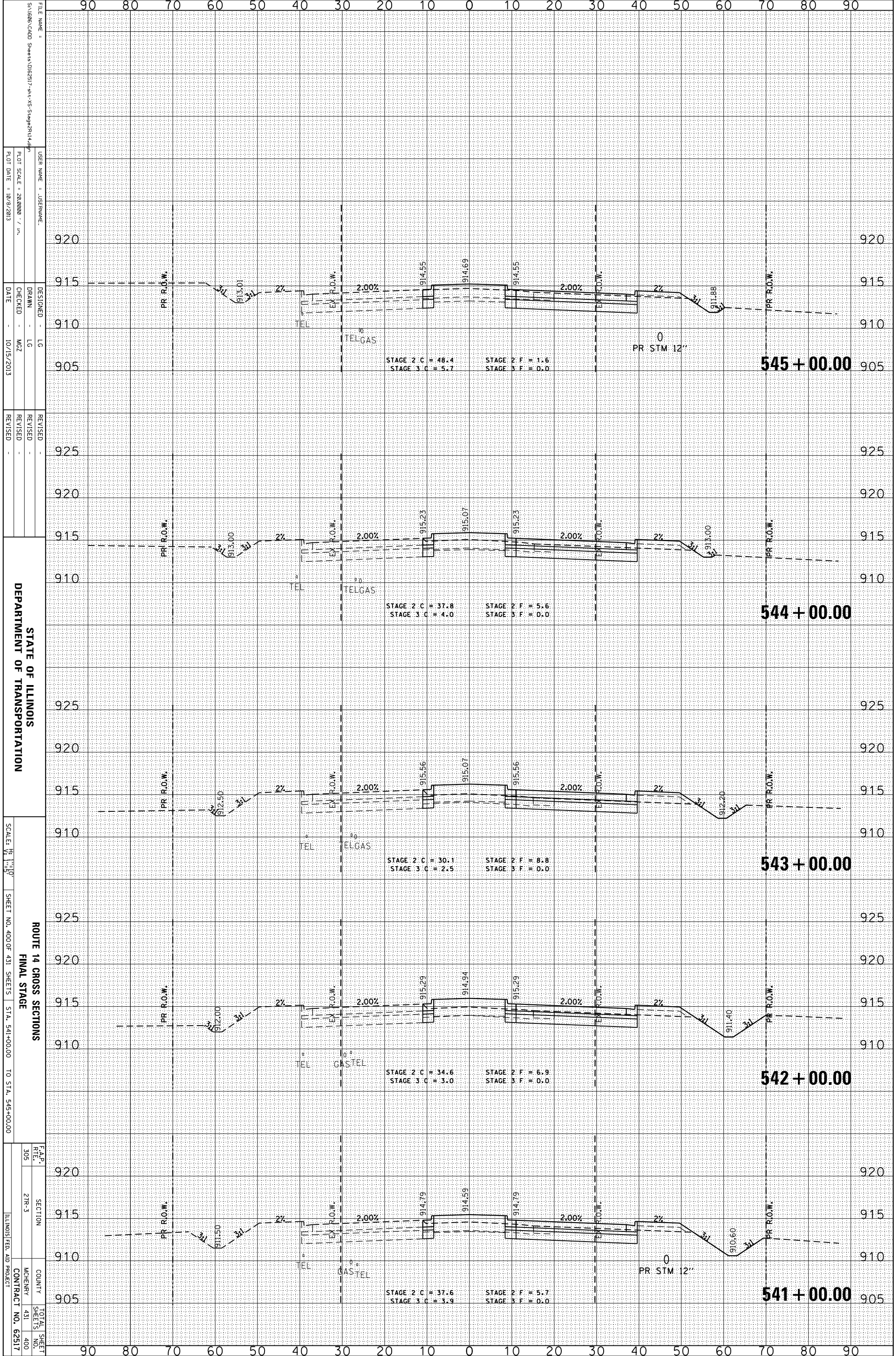
REVISIONS  
 REVISION  
 REVISION  
 REVISION

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROUTE 14 CROSS SECTIONS  
 FINAL STAGE  
 SCALE: 1" = 50'  
 SHEET NO. 399 OF 431 SHEETS STA. 537+00.00 TO STA. 540+00.00  
 F.A.P. SECTION COUNTY TOTAL SHEETS  
 305 27R-3 MCHENRY 431 399  
 ILLINOIS FED. AID PROJECT CONTRACT NO. 62517

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
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	AREAS _____		
	AREAS CHECKED _____		



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REVISIONS  
 REVISION NO. | DATE | DESCRIPTION

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 SCALE: 1" = 10'  
 SHEET NO. 400 OF 431 SHEETS STA. 541+00.00 TO STA. 545+00.00

ROUTE 14 CROSS SECTIONS  
 FINAL STAGE  
 F.A.P. 305  
 SECTION 27R-3  
 COUNTY MCHEMERY  
 CONTRACT NO. 62517  
 TOTAL SHEET NO. 400