

MATCH LINE STA. 175+00 - SEE SHEET NO. 100

(REMOVE AND REPLACE) ④
 (REMOVE AND REPLACE) ⑤
 EX ROW
 ROW
 EX ROW

ORCHARD DRIVE

NORTH STREET

LEGEND

- ① TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED
- ② TREE, GINKO BILOBA MAGYAR ARISTOCRAT (MAGYAR ARISTOCRAT GINKO), TREE FORM, 3" CALIPER, BALLED AND BURLAPPED
- ③ TREE, LIQUIDAMBAR STYRACIFLUA (AMERICAN SWEETGUM), 2" CALIPER, BALLED AND BURLAPPED
- ④ TREE, TILIA AMERICANA (AMERICAN LINDEN/BASSWOOD), 2" CALIPER, BALLED AND BURLAPPED
- ⑤ TREE, ULMUS ACCOLADE (HYBRID ELM), 3" CALIPER, BALLED AND BURLAPPED
- ⑥ TREE, SYRINGA RETICULATA IVORY SILK (IVORY SILK JAPANESE TREE LILAC), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED

- [Pattern] SODDING
- [Pattern] SEEDING CLASS 2A

NOTES:

1. FOR TREE SCHEDULE SEE SHEET NO. 17
2. THE CONTRACTOR SHALL COORDINATE PARKWAY TREE REMOVAL WITH THE ENGINEER. NO PARKWAY TREES SHALL BE REMOVED WITHOUT PRIOR APPROVAL OF ENGINEER.

DESIGNED BY: BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS PROFESSIONAL ENGINEERING FIRM
 LICENSE NO. - 04-00021 - EXPIRES 4/30/2015
 10/21/2011 4:02:23 PM
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DESIGNED - TLH	REVISED -
DRAWN - UKB	REVISED -
CHECKED - TLH	REVISED -
DATE - 10/24/11	FILE - 060670-PH2-LNDSCP5.sht

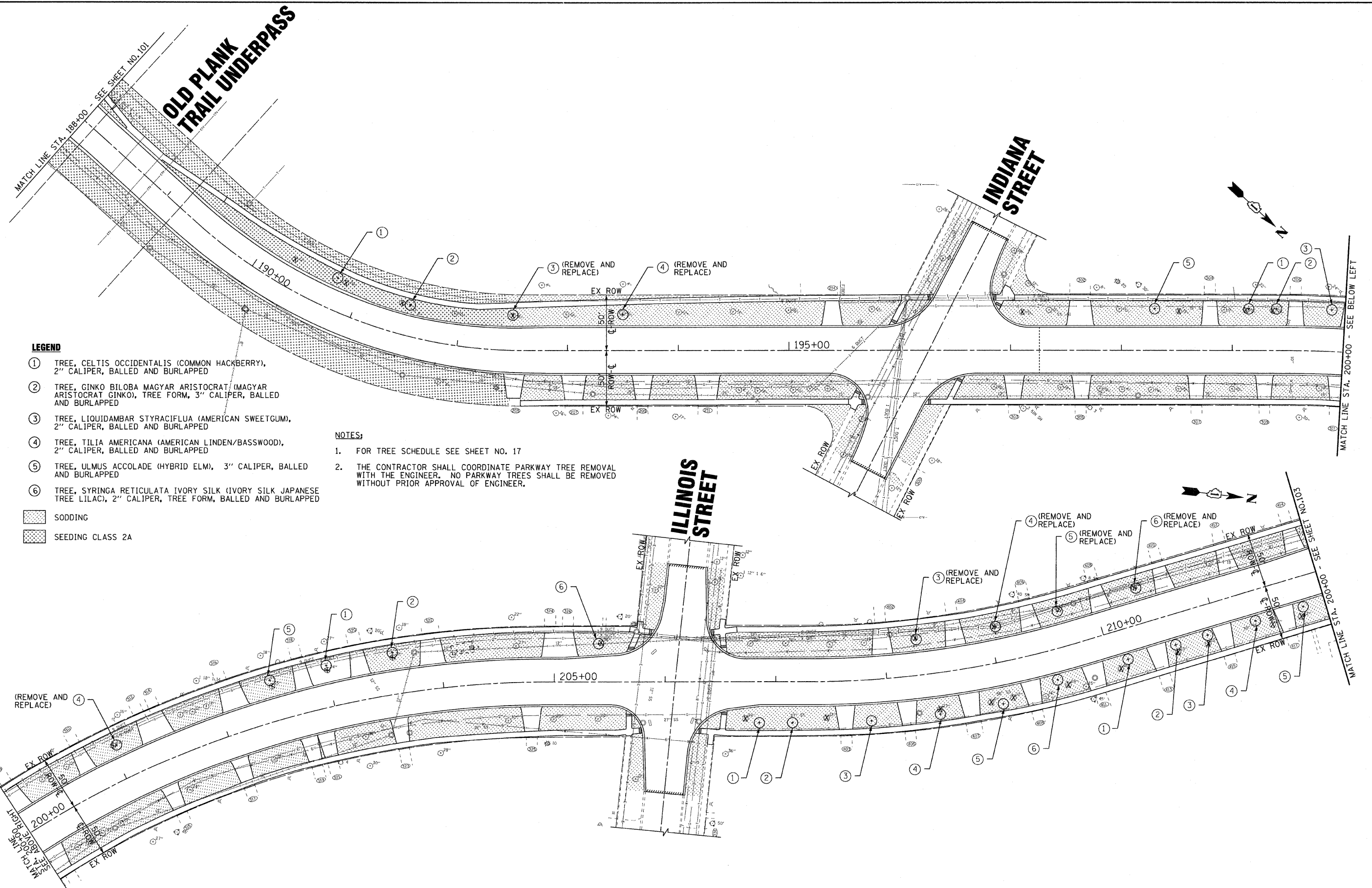
**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

**LANDSCAPING PLAN
ORCHARD DRIVE**



SCALE: 1"=40'

STA. 175+00 TO STA. 188+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	101
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635	
			M-8003661	



LEGEND

- ① TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED
 - ② TREE, GINKGO BILOBA MAGYAR ARISTOCRAT (MAGYAR ARISTOCRAT GINKGO), TREE FORM, 3" CALIPER, BALLED AND BURLAPPED
 - ③ TREE, LIQUIDAMBAR STYRACIFLUA (AMERICAN SWEETGUM), 2" CALIPER, BALLED AND BURLAPPED
 - ④ TREE, TILIA AMERICANA (AMERICAN LINDEN/BASSWOOD), 2" CALIPER, BALLED AND BURLAPPED
 - ⑤ TREE, ULMUS ACCOLADE (HYBRID ELM), 3" CALIPER, BALLED AND BURLAPPED
 - ⑥ TREE, SYRINGA RETICULATA IVORY SILK (IVORY SILK JAPANESE TREE LILAC), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED
-  SODDING
 SEEDING CLASS 2A

NOTES:

1. FOR TREE SCHEDULE SEE SHEET NO. 17
2. THE CONTRACTOR SHALL COORDINATE PARKWAY TREE REMOVAL WITH THE ENGINEER. NO PARKWAY TREES SHALL BE REMOVED WITHOUT PRIOR APPROVAL OF ENGINEER.

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 LICENSE NO. 184-001217, EXPIRES 4/30/2013
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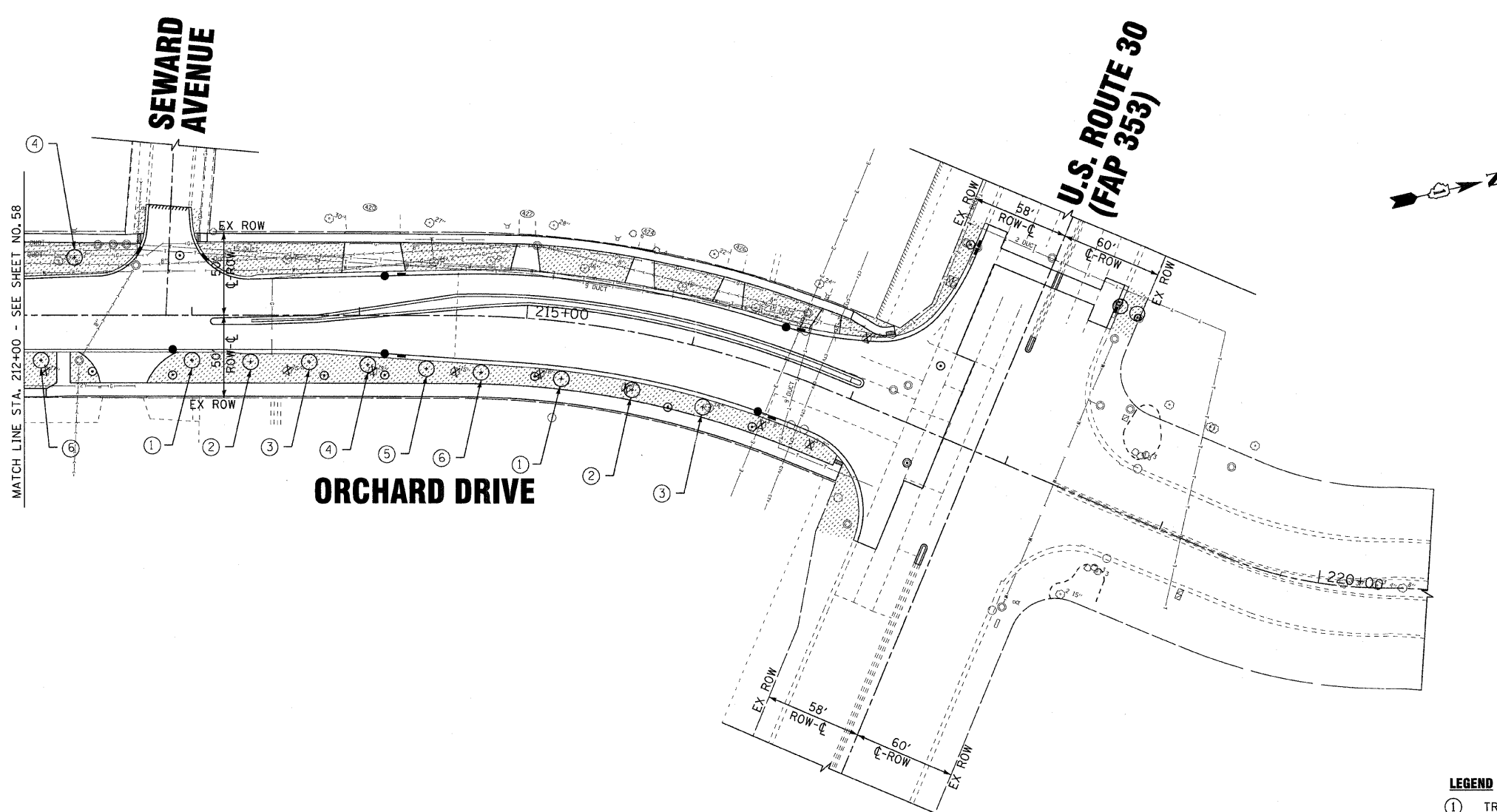
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DRAWN - UKB	REVISED -
CHECKED - TLH	REVISED -
DATE - 10/24/11	FILE - 060670-PH2-LNDSCP6.shx



**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

**LANDSCAPING PLAN
ORCHARD DRIVE**

SCALE: 1"=40' STA. 188+00 TO STA. 212+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	102
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635	
			M-8003(661)	



- LEGEND**
- ① TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED
 - ② TREE, GINKO BILOBA MAGYAR ARISTOCRAT (MAGYAR ARISTOCRAT GINKO), TREE FORM, 3" CALIPER, BALLED AND BURLAPPED
 - ③ TREE, LIQUIDAMBAR STYRACIFLUA (AMERICAN SWEETGUM), 2" CALIPER, BALLED AND BURLAPPED
 - ④ TREE, TILIA AMERICANA (AMERICAN LINDEN/BASSWOOD), 2" CALIPER, BALLED AND BURLAPPED
 - ⑤ TREE, ULMUS ACCOLADE (HYBRID ELM), 3" CALIPER, BALLED AND BURLAPPED
 - ⑥ TREE, SYRINGA RETICULATA IVORY SILK (IVORY SILK JAPANESE TREE LILAC), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED
-  SODDING
 SEEDING CLASS 2A

- NOTES:**
1. FOR TREE SCHEDULE SEE SHEET NO. 17
 2. THE CONTRACTOR SHALL COORDINATE PARKWAY TREE REMOVAL WITH THE ENGINEER. NO PARKWAY TREES SHALL BE REMOVED WITHOUT PRIOR APPROVAL OF ENGINEER.

DRAWN BY: BAXTER & WOODMAN, INC. 10/24/11
 CHECKED BY: TLH 10/24/11
 DATE: 10/24/11
 PROJECT: PHASE 2A - IMPROVEMENTS TO ORCHARD DRIVE
 CONTRACT NO. 63635
 SHEET NO. 103



DESIGNED - TLH	REVISED -
DRAWN - UKB	REVISED -
CHECKED - TLH	REVISED -
DATE - 10/24/11	FILE - 060670-PH2-LNDSCP7.sht

**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

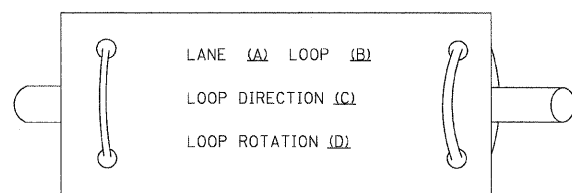
LANDSCAPING PLAN ORCHARD DRIVE	
SCALE: 1"=40'	STA. 212+00 TO STA. 217+38

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	103
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT	M-60031661

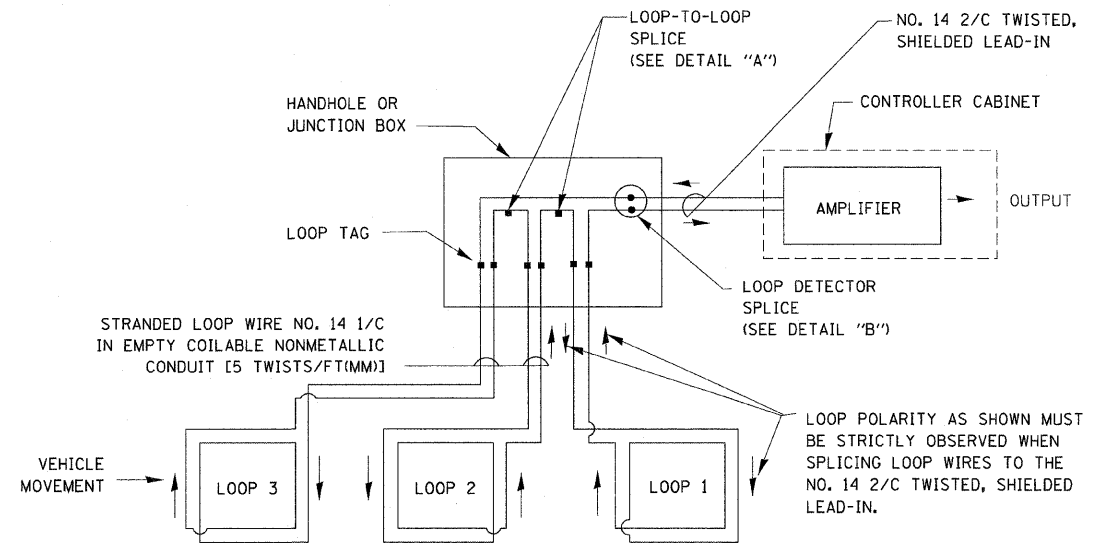
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

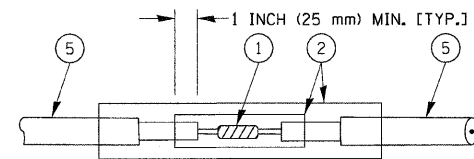


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

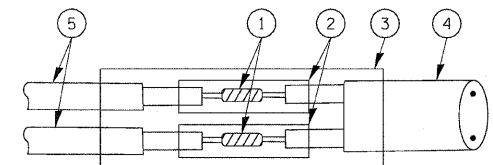


DETECTOR LOOP WIRING SCHEMATIC

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

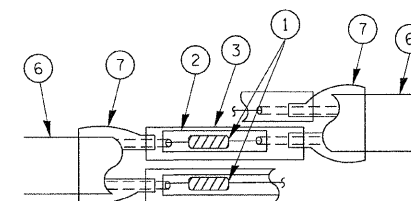


**DETAIL "A"
LOOP-TO-LOOP SPLICE**

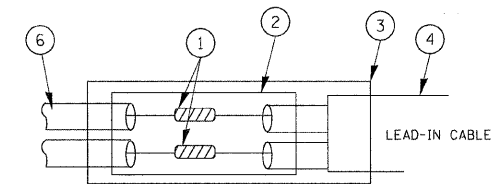


**DETAIL "B"
LOOP-TO-CONTROLLER SPLICE**

TYPE I LOOP



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



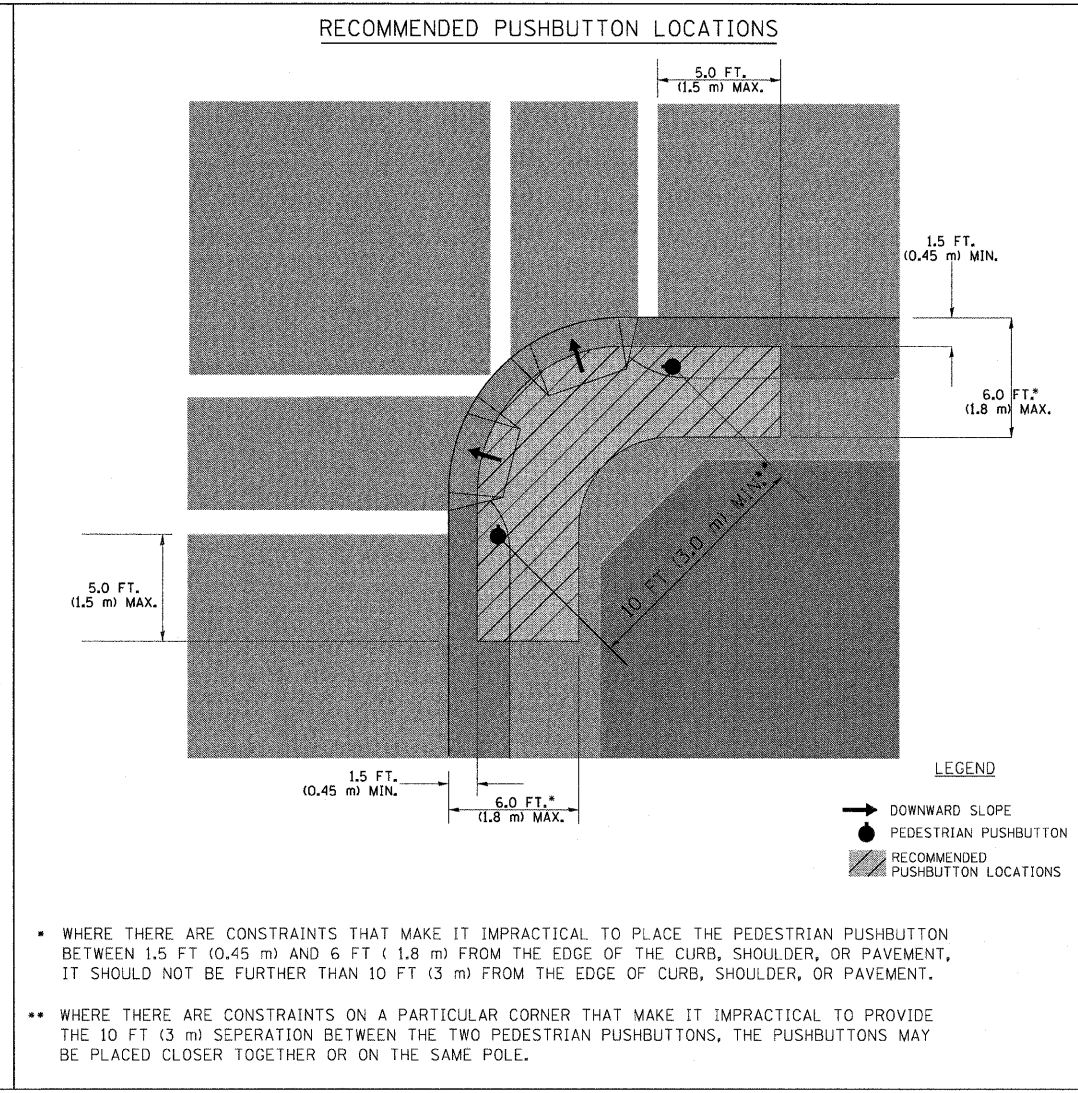
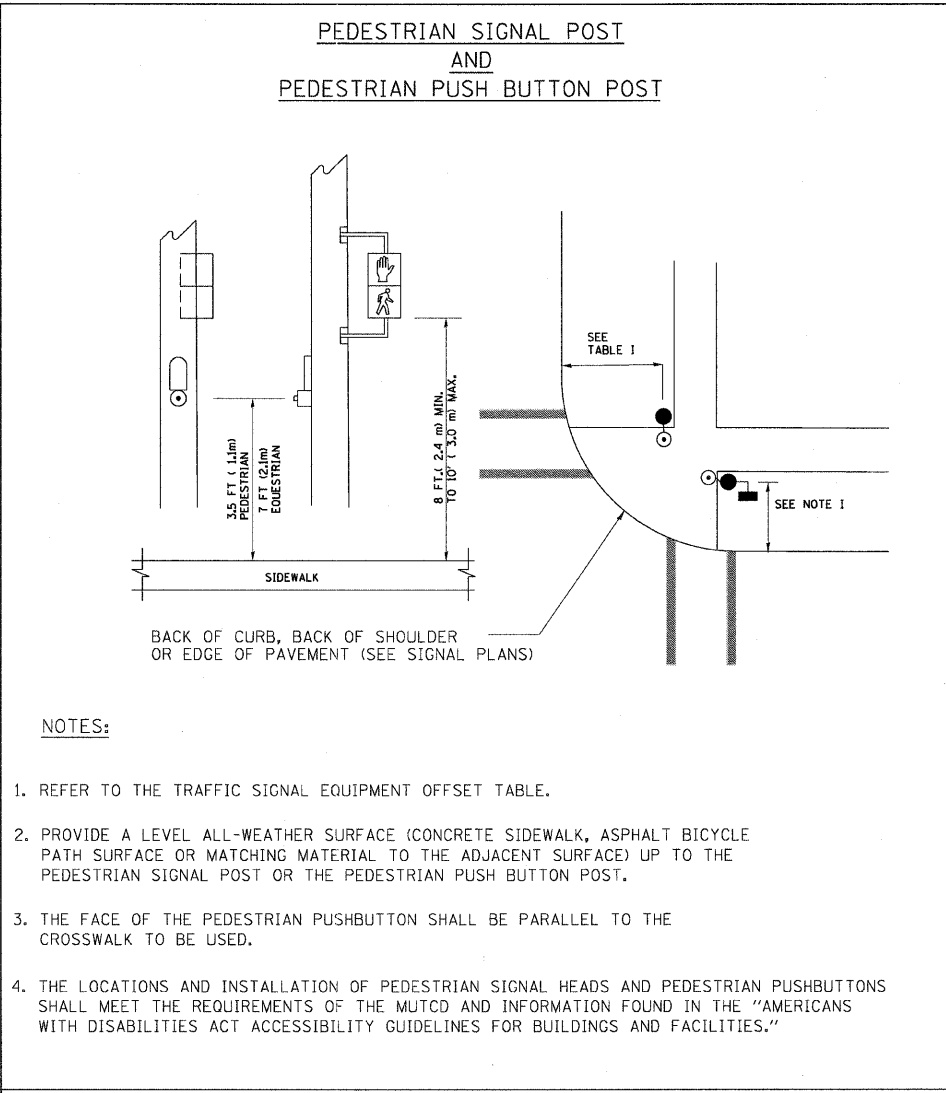
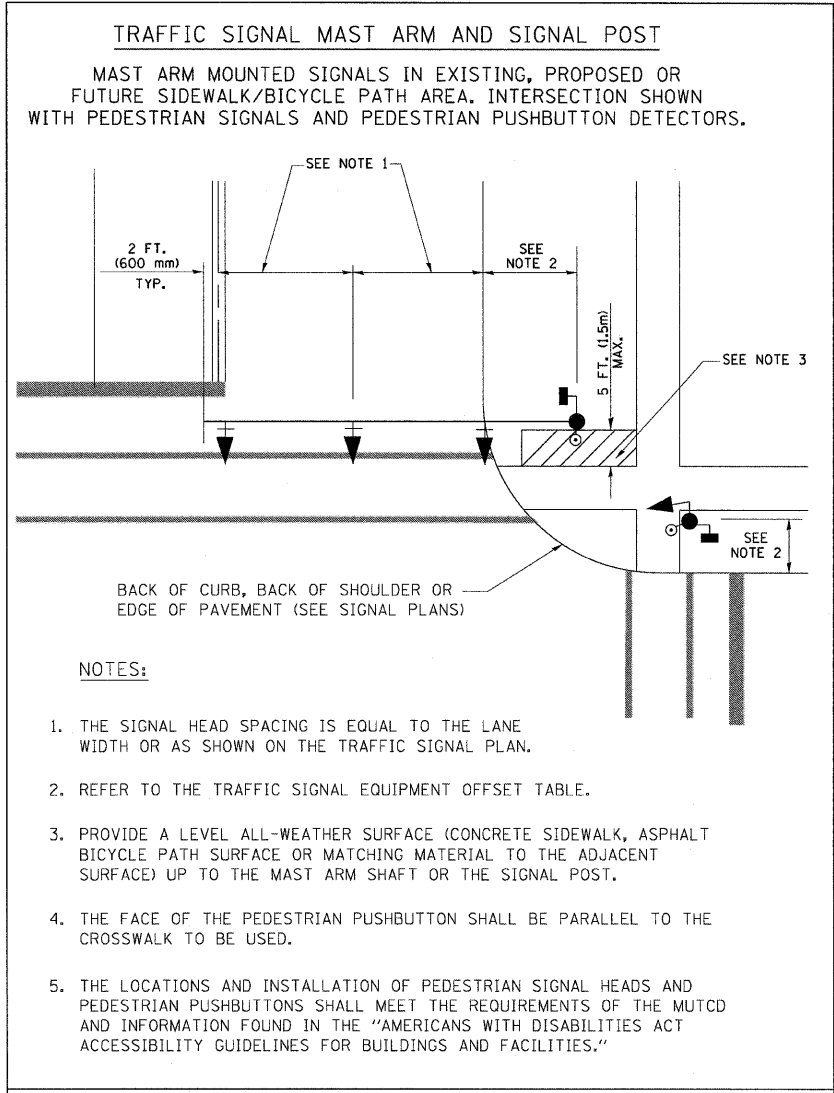
PRE-FORMED LOOP

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

LOOP DETECTOR SPLICE

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

FILE NAME =	USER NAME = kanthaphixajbo	DESIGNED - DAD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
g:\p\work\VP\WIDOT\KANTHAPHIXAYBC\d01126	4\tr\traffic\legend.v7.dgn	DRAWN - BCK	REVISED -			2836	06-00090-00-PP	COOK	200	104	
PLOT SCALE = 20.0000" / IN.		CHECKED - DAD	REVISED -			CONTRACT NO. 63635					
PLOT DATE = 10/6/2009		DATE - 10/28/09	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-8003 (661)					
				SCALE:	SHEET NO. 1 OF 6 SHEETS	STA.	TO STA.				



NOTES:

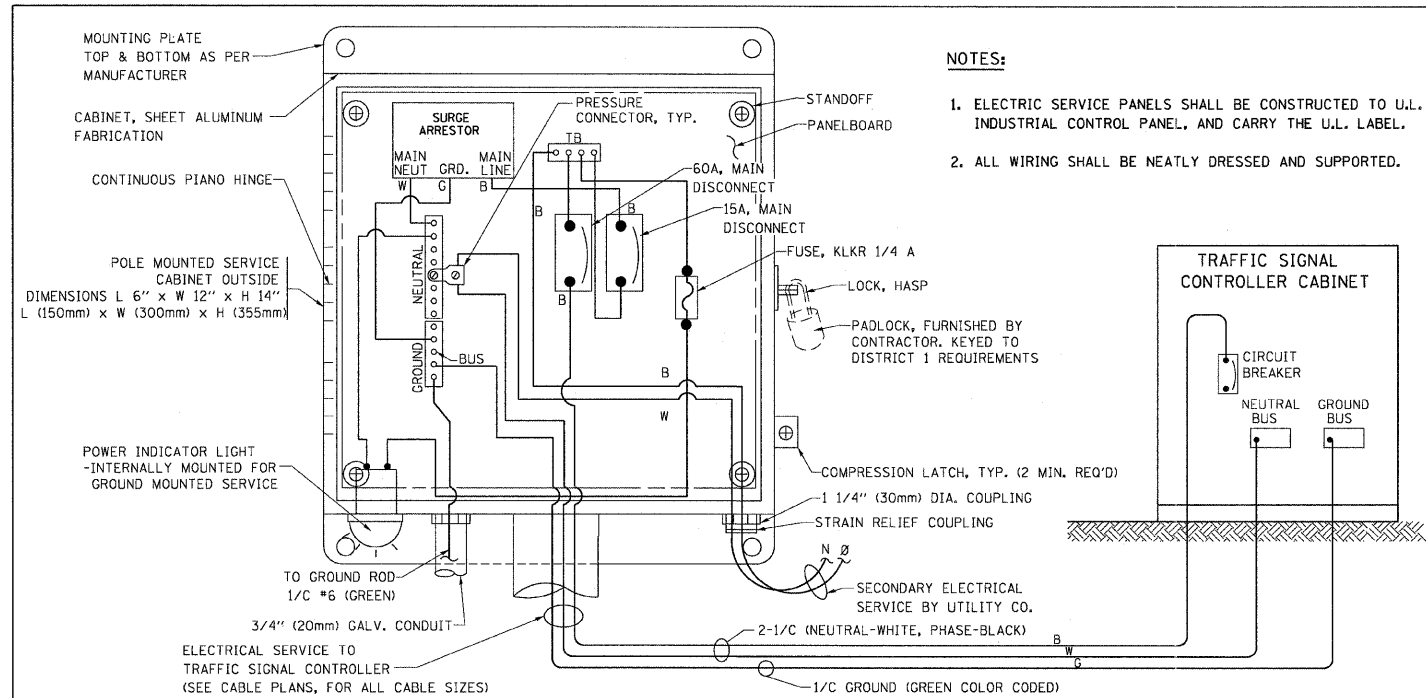
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM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

TRAFFIC SIGNAL EQUIPMENT OFFSET

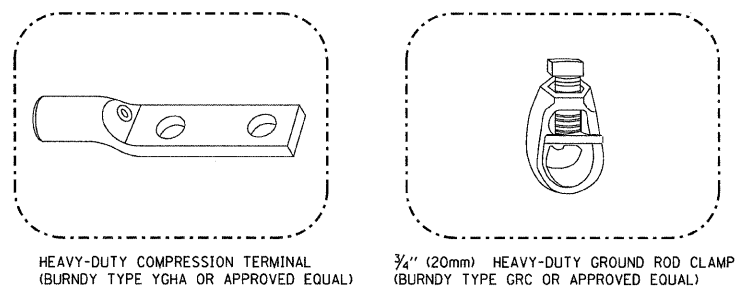
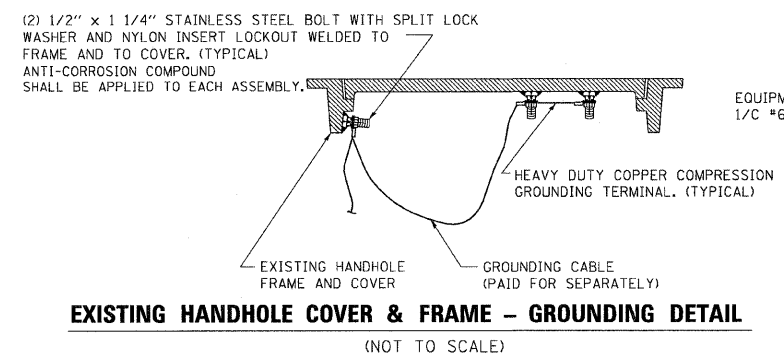
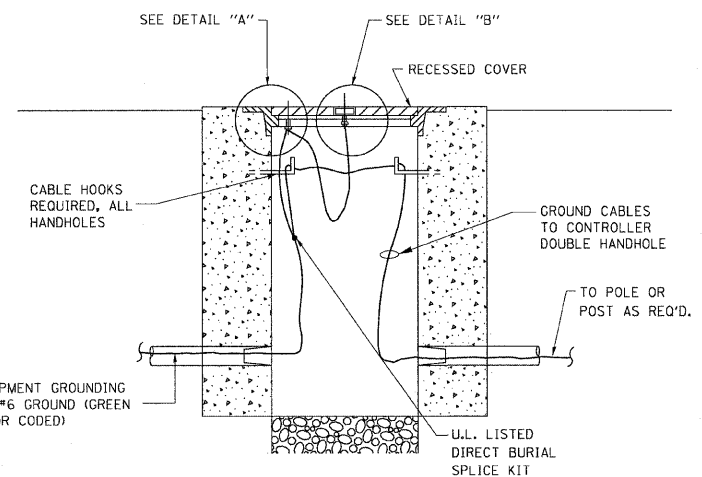
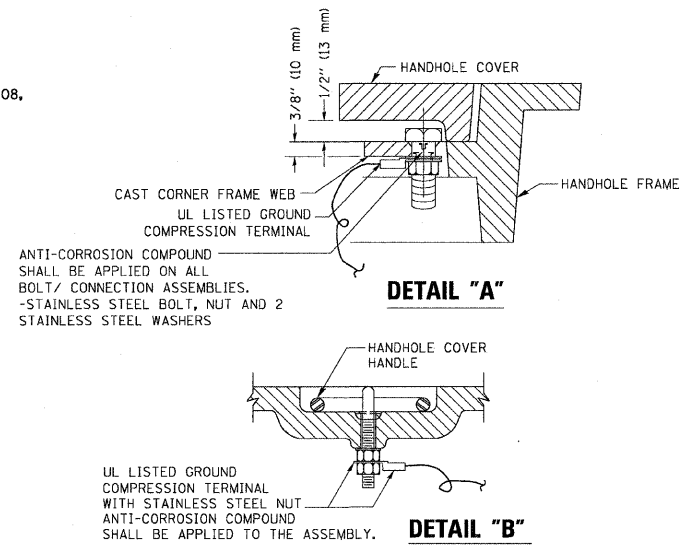
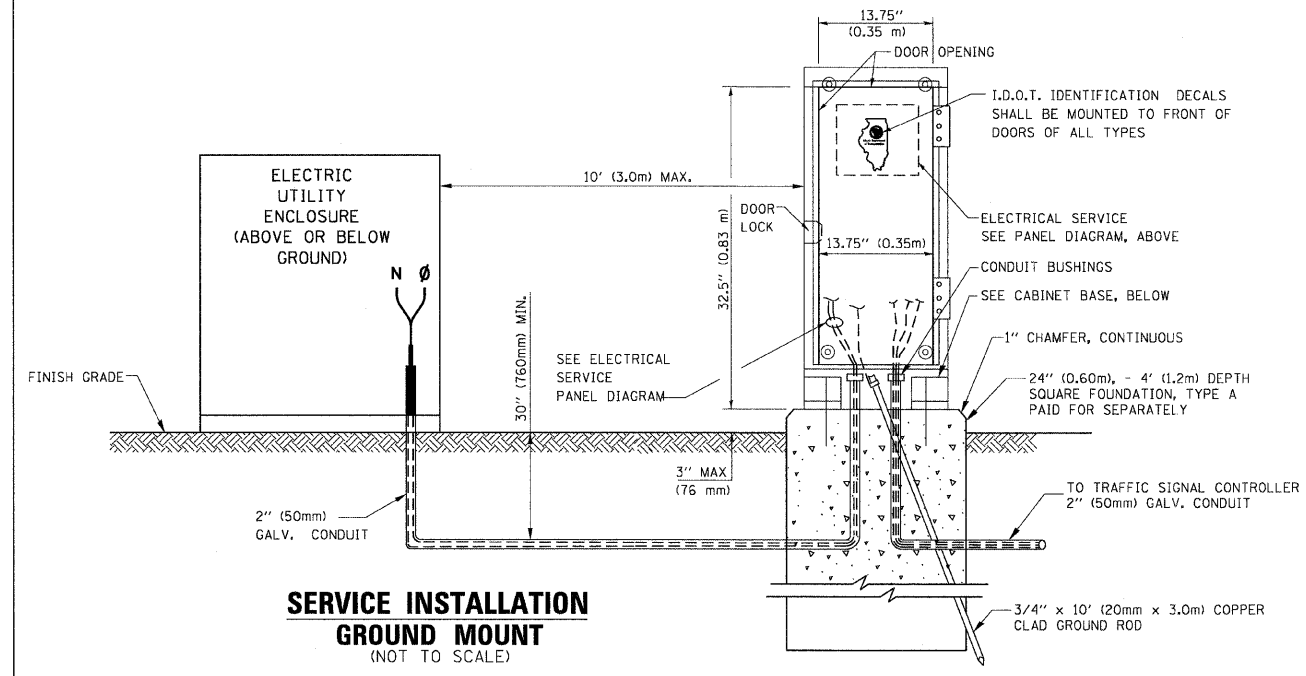
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10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

NOTES:

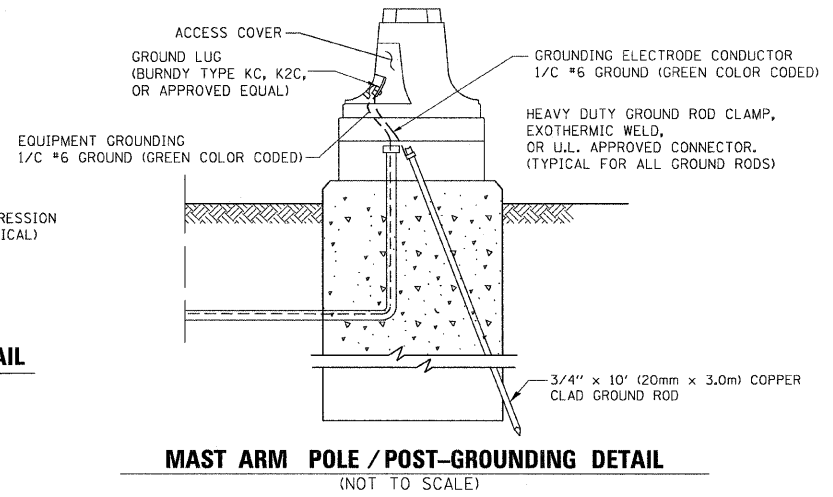
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM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



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



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



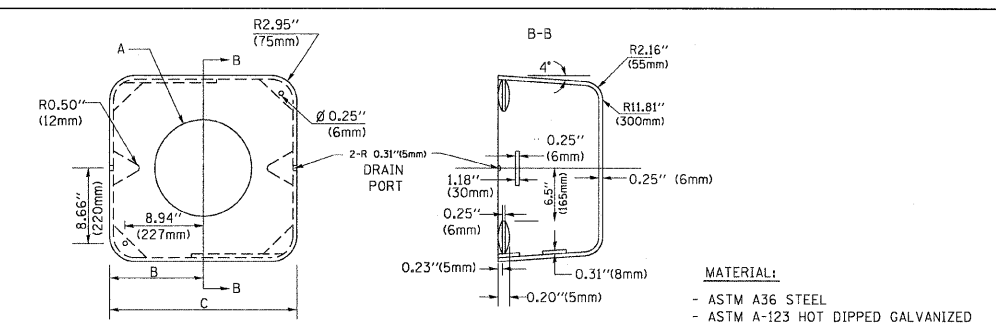
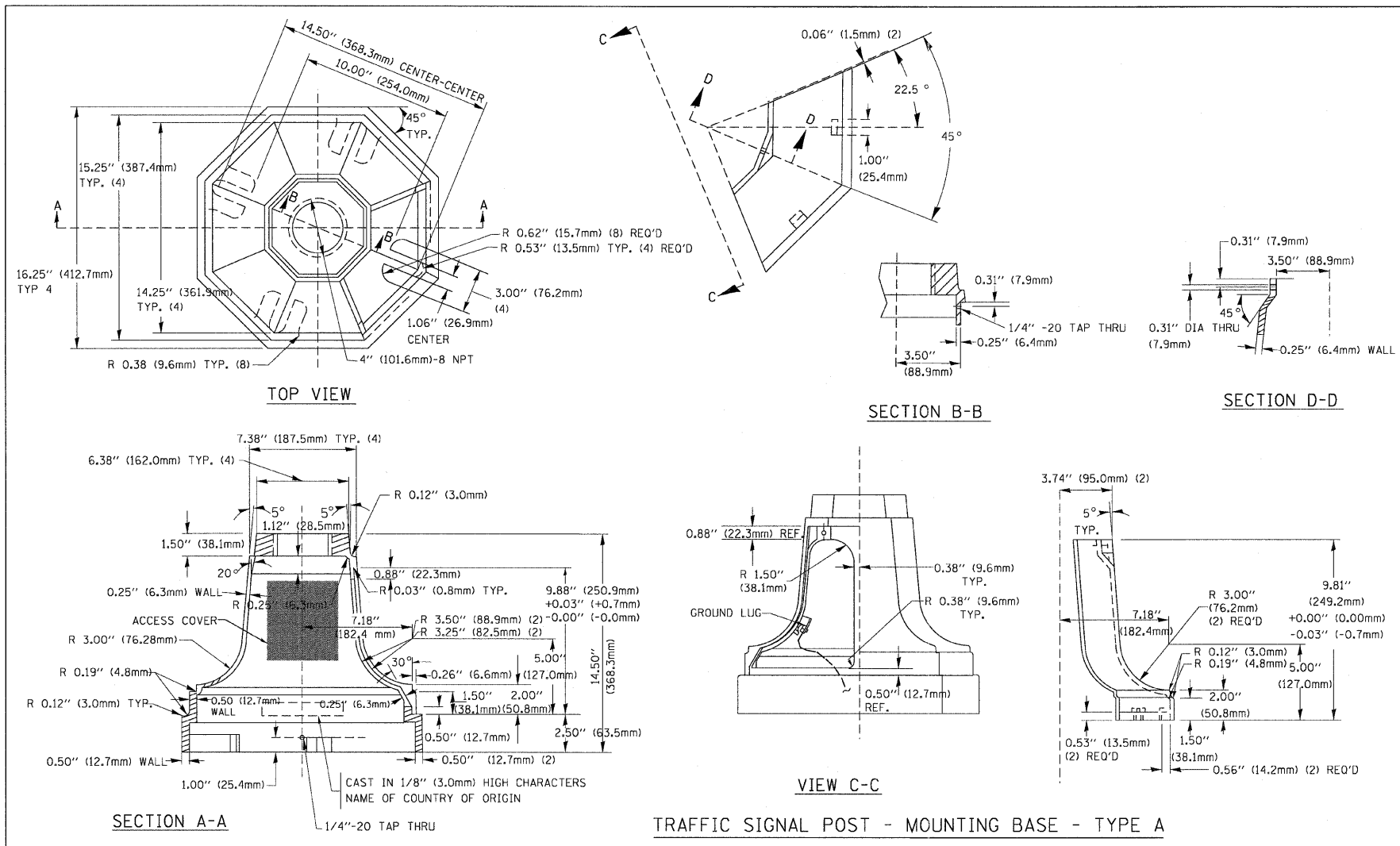
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	PLOT SCALE = 20,0000 ' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

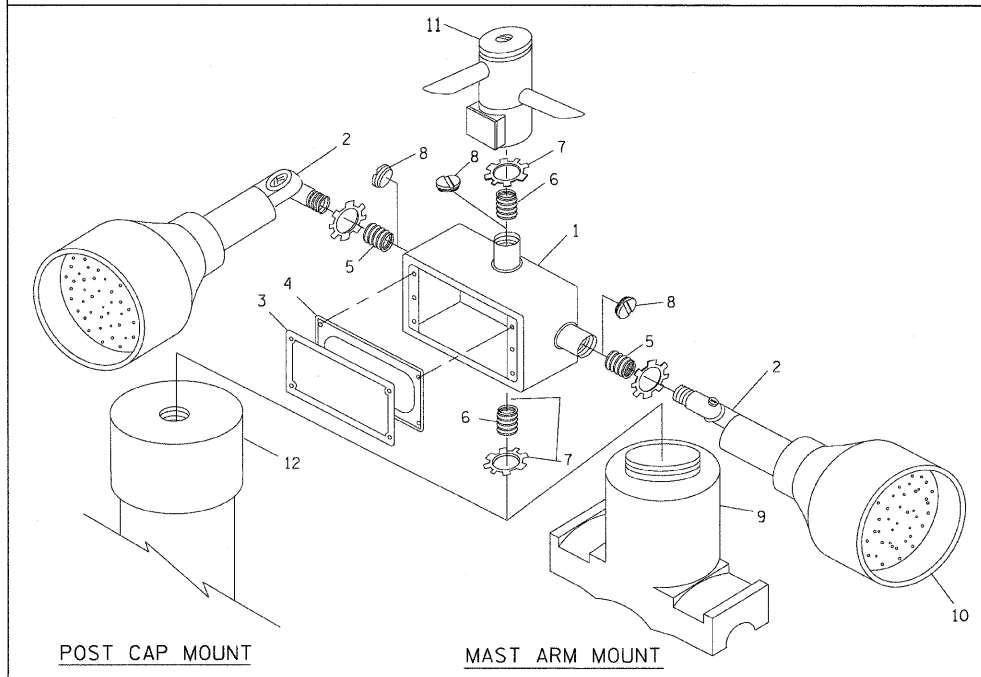
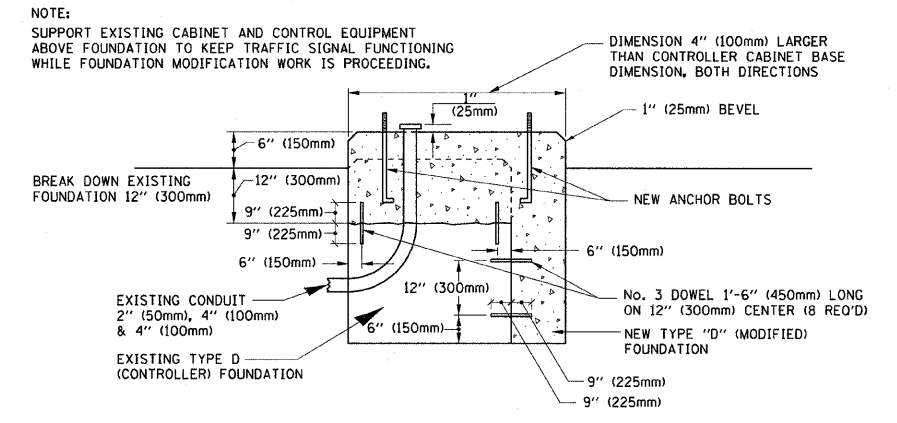
SCALE: SHEET NO. 3 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	106
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635 M-8003 (661)	



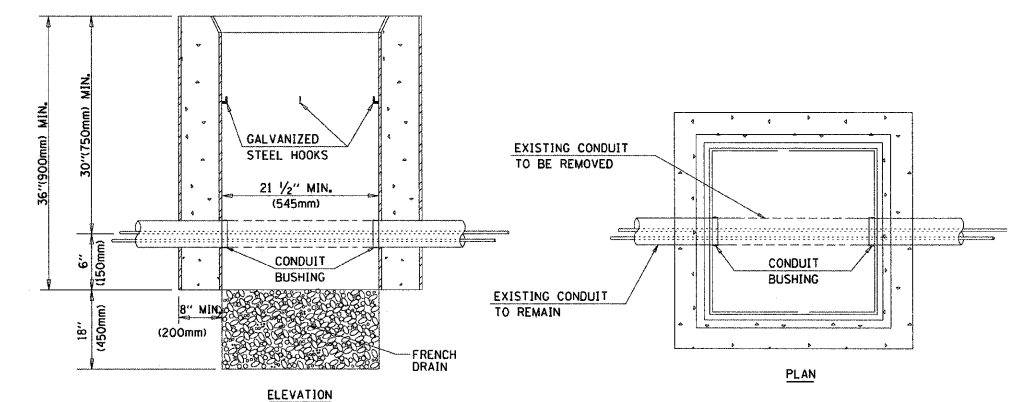
A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12"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

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

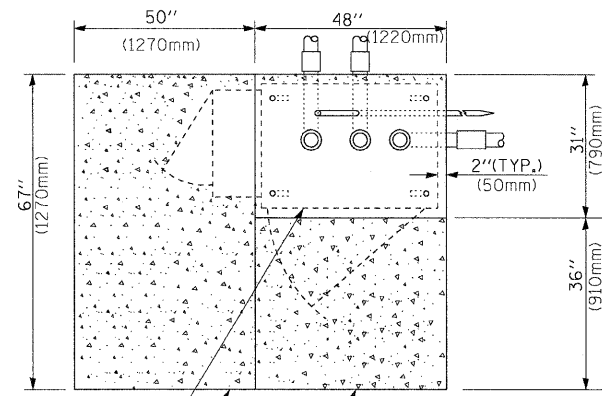


ITEM NO.	IDENTIFICATION
1	OUTLET BOX - GALV. 21 CU. IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR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

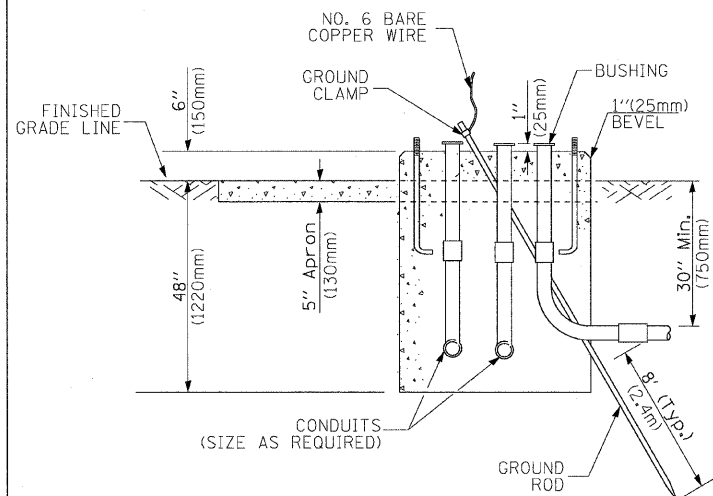
- NOTES:**
- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
 - ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
 - WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED.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



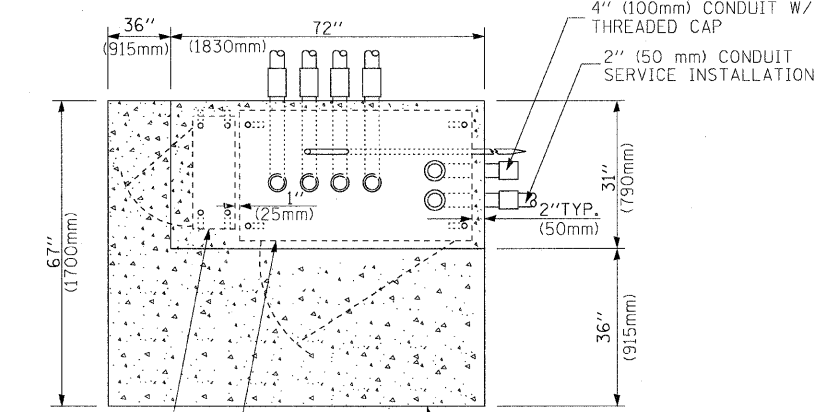
- NOTES:**
- HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
 - REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.



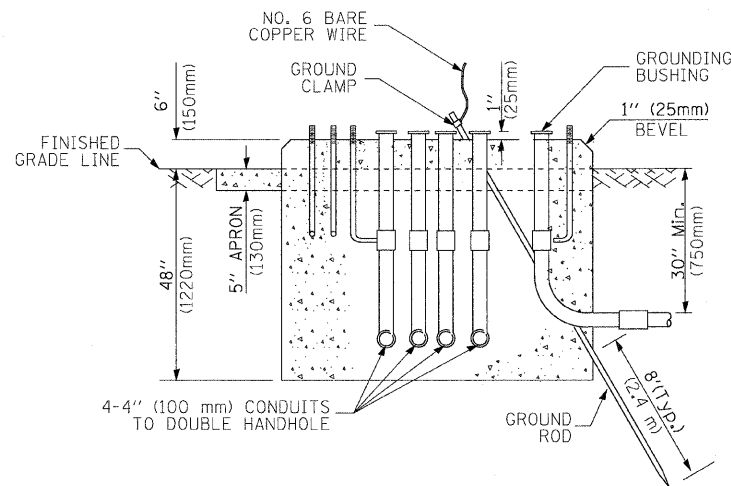
CONTROLLER CABINET BASE
PROPOSED APRON
EXISTING APRON
TOP VIEW



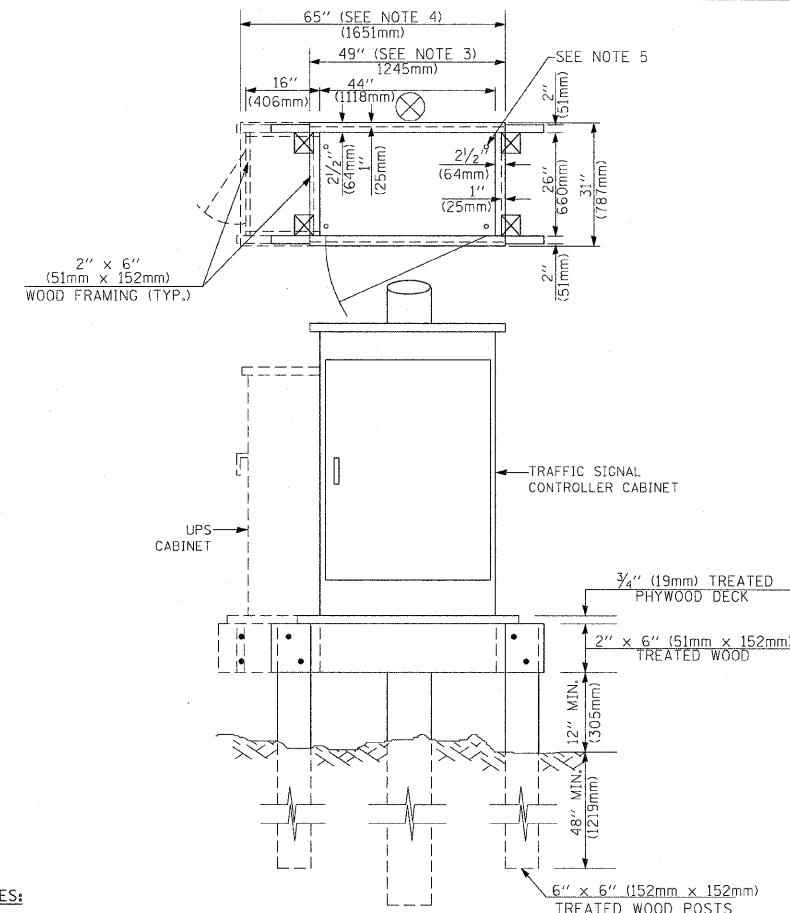
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



UPS CABINET BASE
CONTROLLER CABINET BASE
TOP VIEW
APRON



TYPE C
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



NOTES:

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

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

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

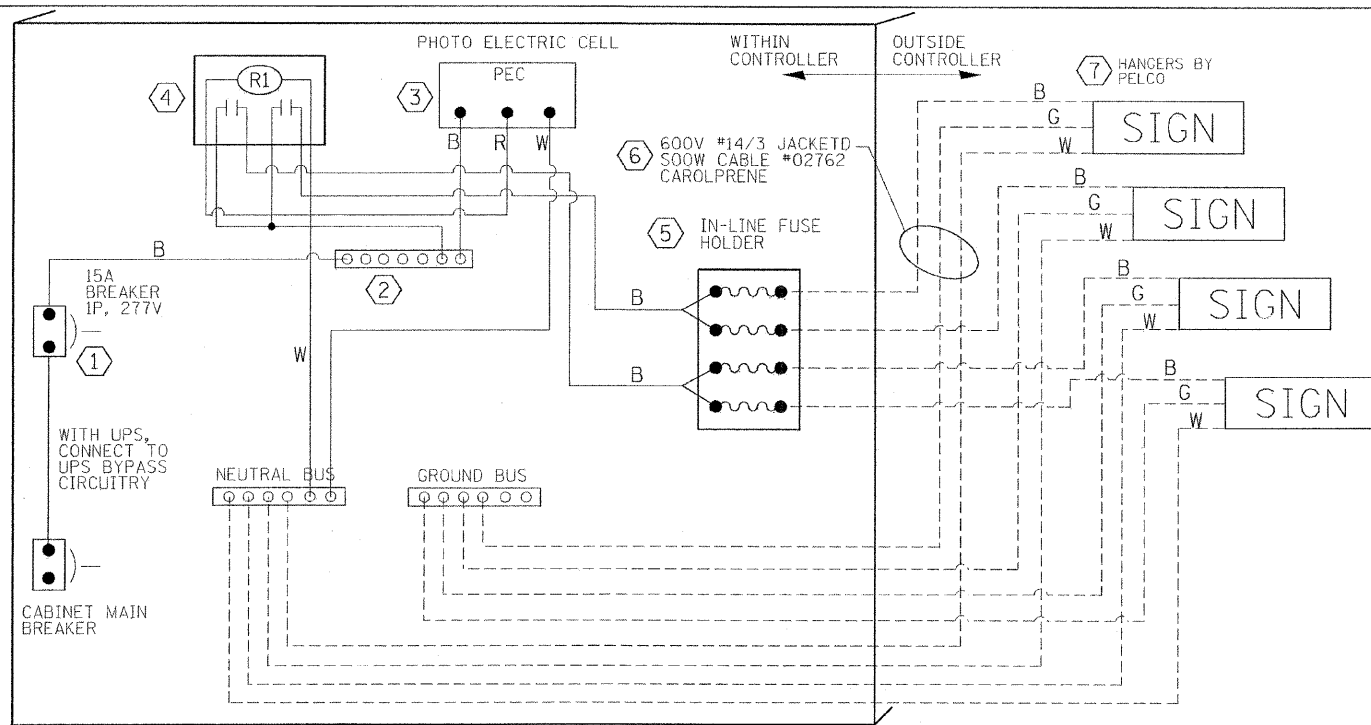
NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

TRAFFIC SIGNAL LEGEND

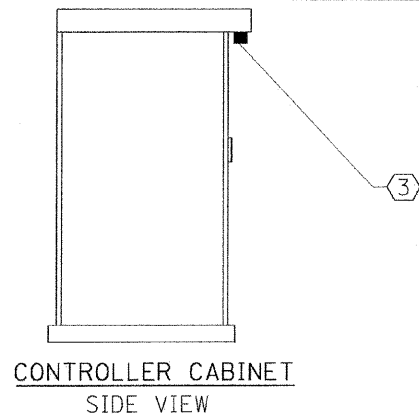
ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH			CT	GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC	CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM		S	S	STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM		I	IP	ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
SIGNAL POST				REMOVE ITEM	R			STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM	RL			SIGNAL POST AND FOUNDATION TO BE REMOVED			
GUY WIRE				ABANDON ITEM	A			INTERSECTION & SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				RAILROAD SYMBOLS			
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID				EXISTING		PROPOSED	
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER				RAILROAD CONTROL CABINET			
ILLUMINATED SIGN "NO LEFT TURN"				RADIO INTERCONNECT				RAILROAD CANTILEVER MAST ARM			
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO REPEATER				FLASHING SIGNAL			
DETECTOR LOOP, TYPE I				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED				CROSSING GATE			
PREFORMED DETECTOR LOOP				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)				CROSSBUCK			
MICROWAVE VEHICLE SENSOR											
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											



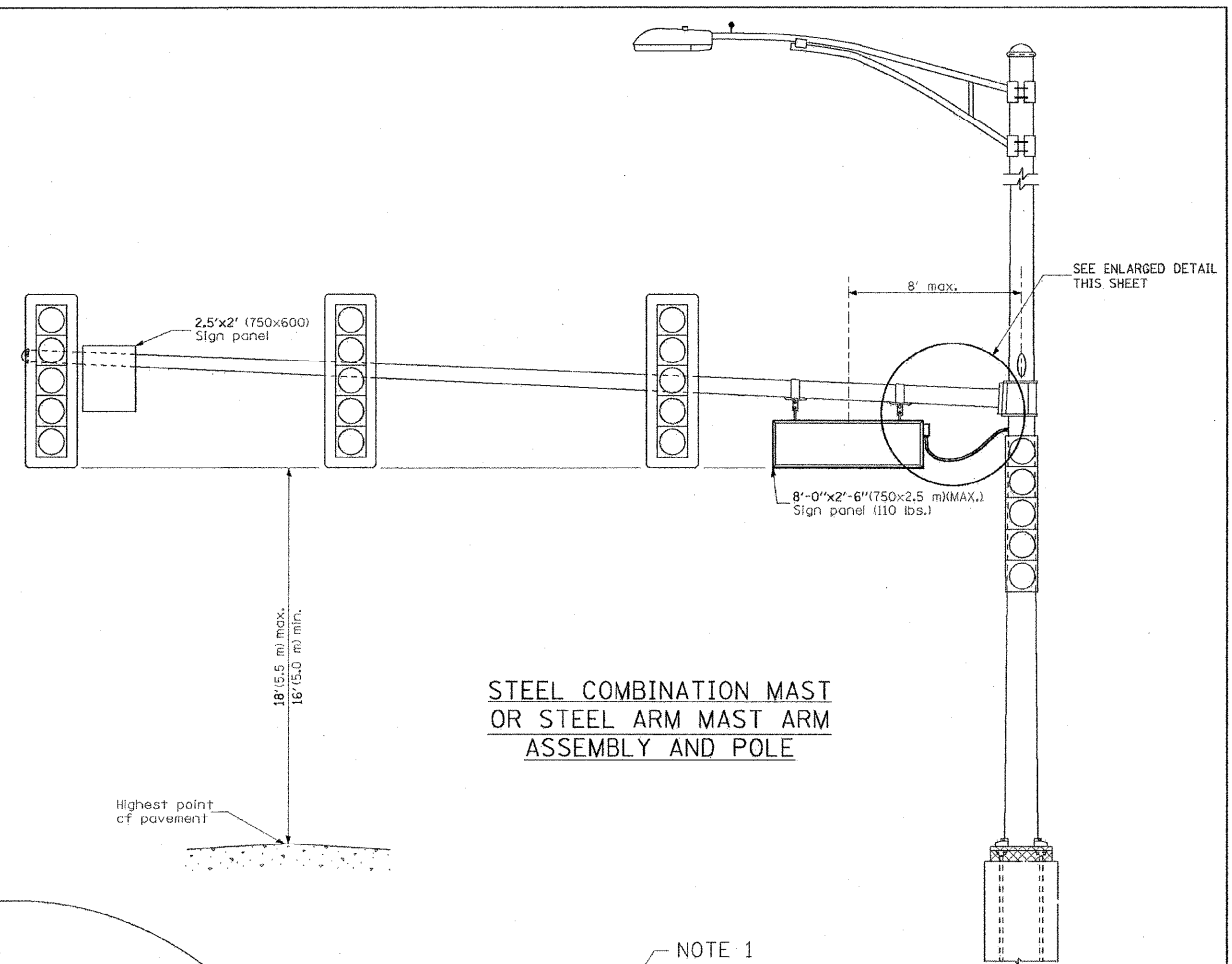
LED SIGN WIRING DETAIL

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

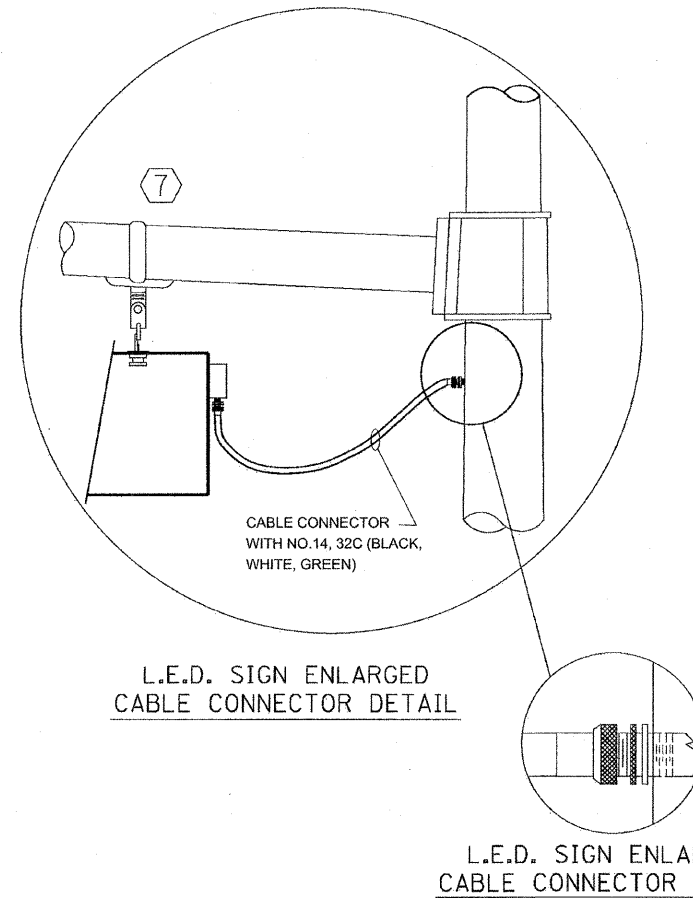
BILL OF MATERIALS



CONTROLLER CABINET SIDE VIEW

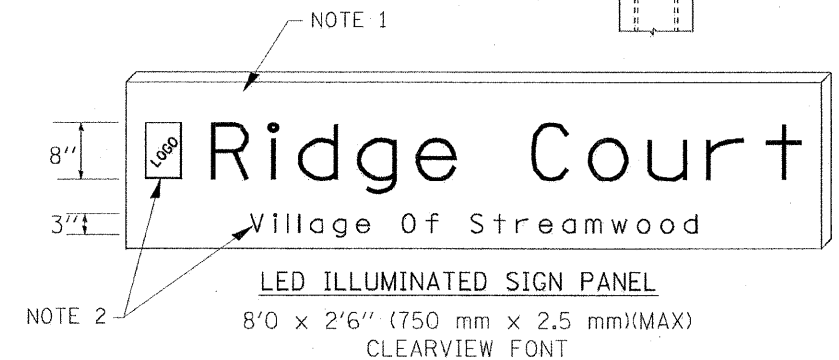


STEEL COMBINATION MAST OR STEEL ARM MAST ARM ASSEMBLY AND POLE



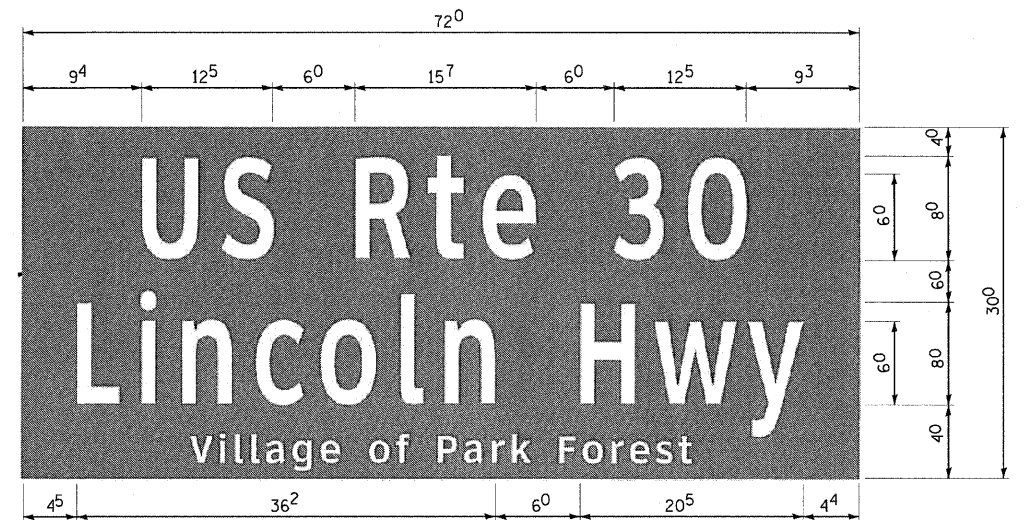
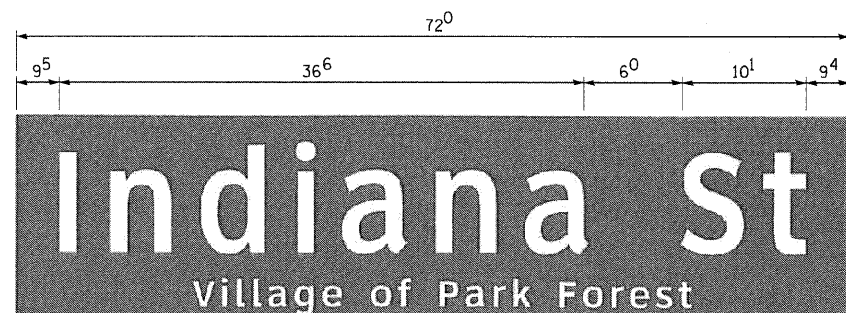
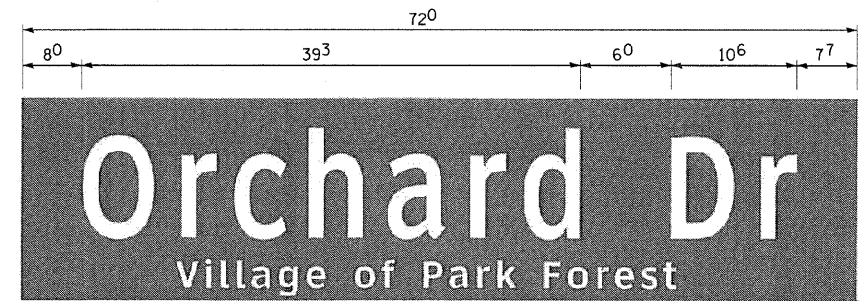
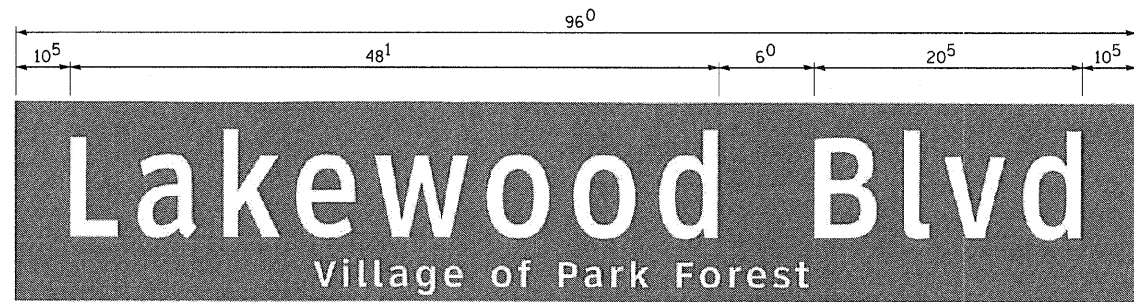
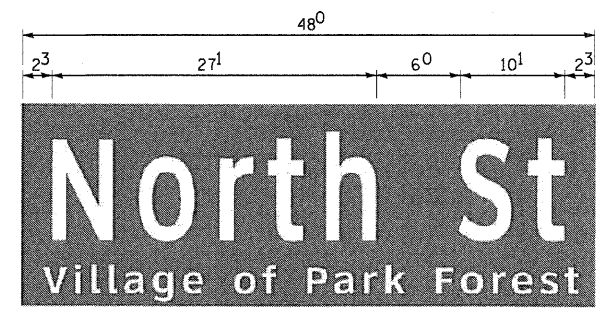
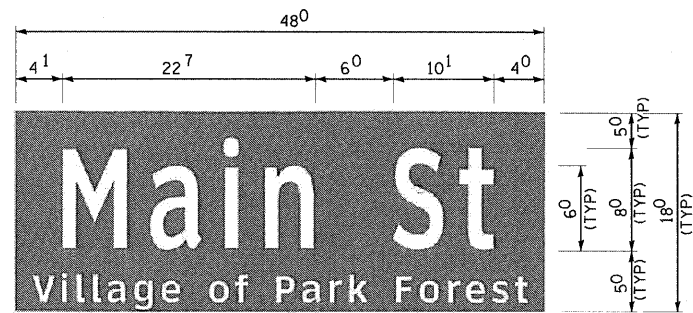
L.E.D. SIGN ENLARGED CABLE CONNECTOR DETAIL

L.E.D. SIGN ENLARGED CABLE CONNECTOR DETAIL



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.



8" CLEARVIEW HIGHWAY FONT
 8" LOGO IN GREEN EC FILM OVER 3M DG CURBED
 REFLECTIVE FACE

ILLUMINATED SIGNS

SIGN DIMENSIONS	SIGN NAME	SIGN WATTAGE	QUANTITY
4'-0"	Main St	30	2
8'-0"	Lakewood Blvd	60	2
6'-0"	Indiana St	45	2
4'-0"	North St	30	2
6'-0"	Orchard Dr	45	10
6'-0" (SPECIAL)	US Route 30	90	2

NOTES:

- THIS SHEET FOR INFORMATION ONLY. TO BE USED WITH INTERNALLY ILLUMINATED STREET NAME SIGNS MANUFACTURED BY TRAFFIC SIGNS, INC, OR APPROVED EQUAL.
- SIGNS SHALL BE DUAL SIDED, FRONT AND BACK OF SIGN WILL BE THE SAME.

DESIGNED BY: BAXTER & WOODMAN, INC. ... PHASE 2, 06/06/20 - PH2-LED-INTERN-STNAMESIGN.sht
 DRAWN BY: JJJ
 CHECKED BY: JJJ
 DATE: 8-29-11



DESIGNED - JJF	REVISIONS
DRAWN - MAC	REVISIONS
CHECKED - JJF	REVISIONS
DATE - 8-29-11	FILE - 060670-PH2-TS-LED-INTERN-STNAMESIGN.sht

**STATE OF ILLINOIS
 ORCHARD DRIVE IMPROVEMENTS**

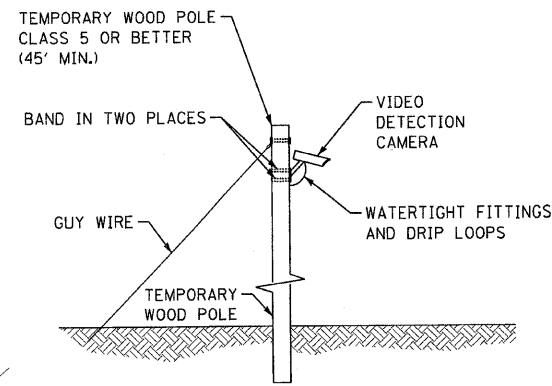
LED INTERNALLY ILLUMINATED STREET NAME SIGN

SCALE: STA. TO STA.

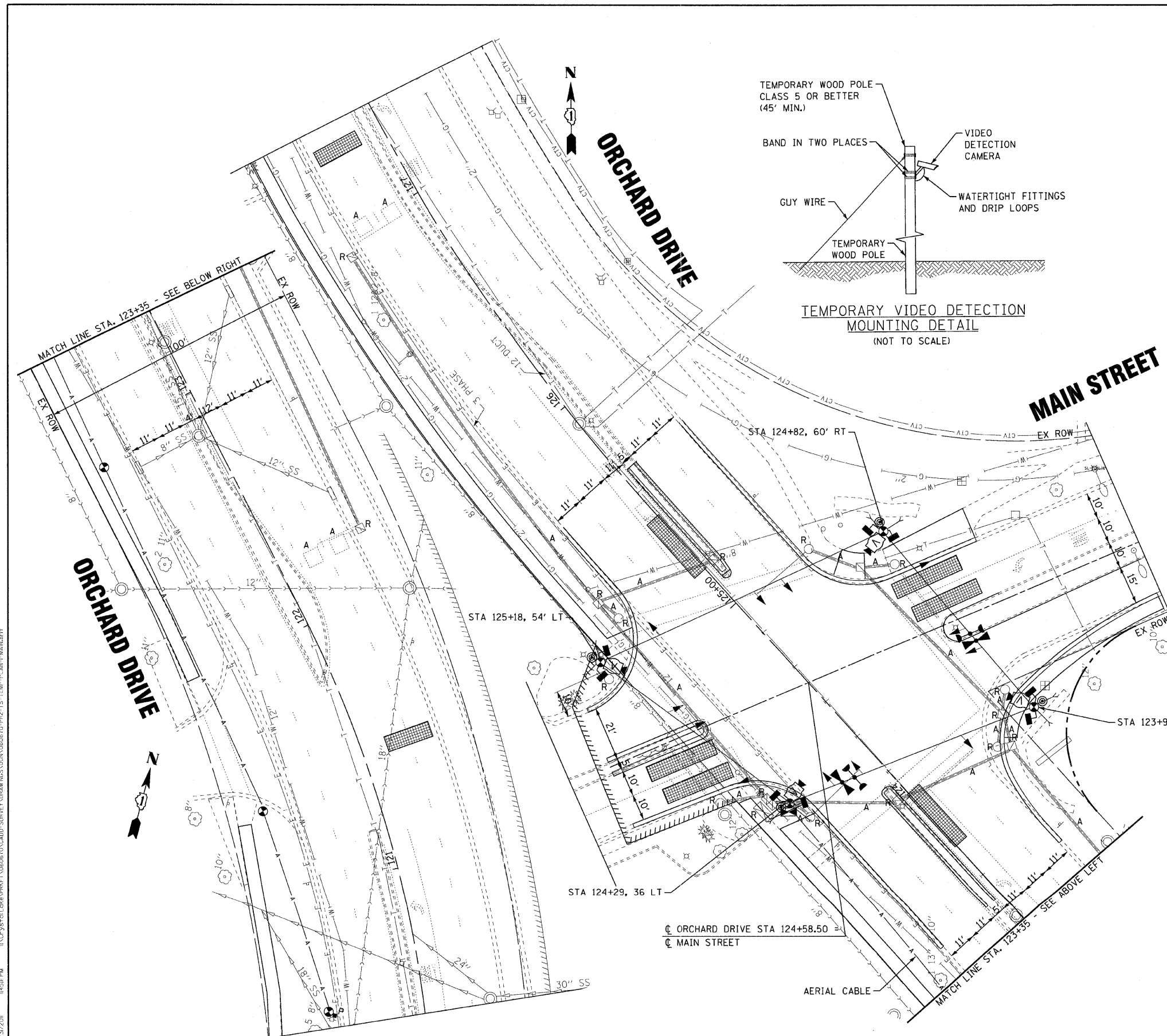
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	112
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635	
			M-80031661	

NOTES FOR TEMPORARY TRAFFIC SIGNALS

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



TEMPORARY VIDEO DETECTION MOUNTING DETAIL
(NOT TO SCALE)



RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO 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.

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

- 2 EACH SIGNAL HEAD, 2 FACE, 2-3 SECTION
- 4 EACH SIGNAL HEAD, 1 FACE, 3 SECTION
- 4 EACH SIGNAL HEAD, 1 FACE, 5 SECTION
- 2 EACH ALUMINUM MAST ARM AND POLE
- 6 EACH SIGNAL POST
- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 4 EACH PUSH BUTTON
- 8 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE

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 CONTRACT NO. 06-00090-00-FP
 LICENSE NO. 184-00021, EXPIRES 7/30/2013
 263500c 10/21/2011



DESIGNED - JJF	REVISED -
DRAWN - MAC	REVISED -
CHECKED - TAO	REVISED -
DATE - 8-29-11	FILE - 060670-PH2-TS-TEMP-PLAN-MAIN.shd

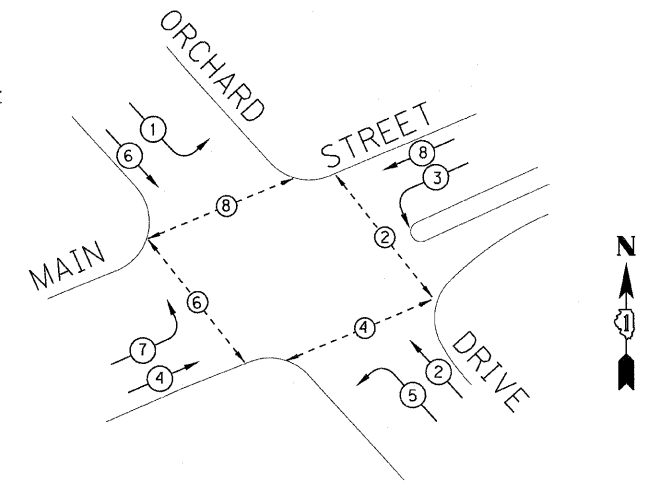
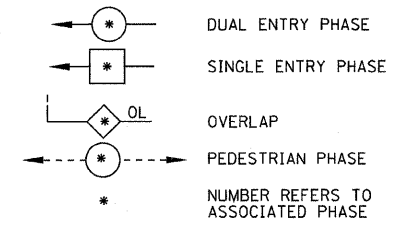
STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS

TEMPORARY TRAFFIC SIGNAL PLAN AND TRAFFIC SIGNAL REMOVAL PLAN	
SCALE: 1"=20'	STA. TO STA.

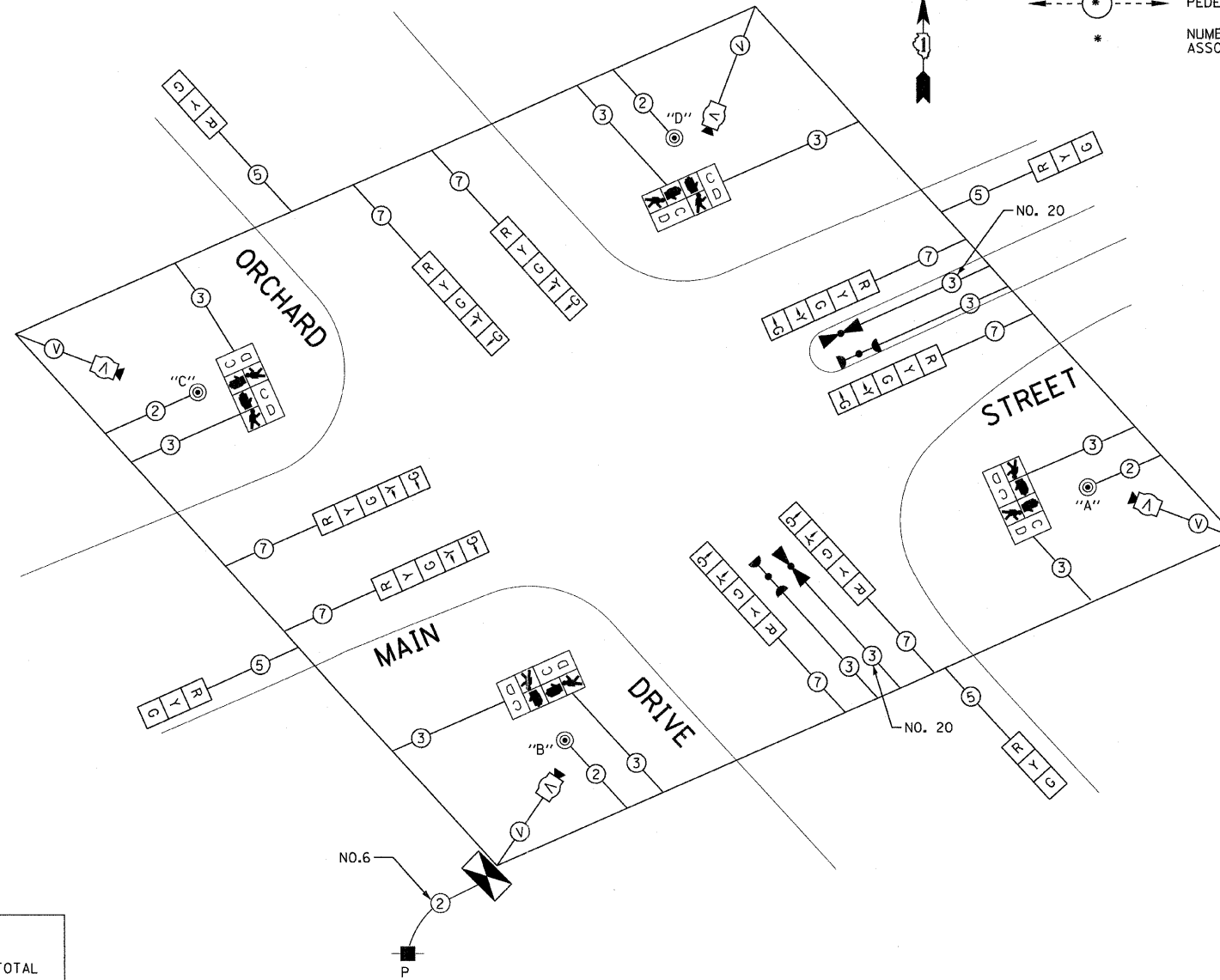
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	113
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635	
			M-8003166J	

TEMPORARY CONTROLLER SEQUENCE

LEGEND



TEMPORARY PHASE DESIGNATION DIAGRAM



TEMPORARY CABLE PLAN

(NOT TO SCALE)

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

TEMPORARY EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3 4
MOVEMENT	

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		%OPERATION	
SIGNAL (RED)	12	INCAND.	17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	16		12	0.10	19.2
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1	100		1.00	100.00
ILLUM. SIGN	0		90	0.50	0
VIDEO DET.	1		150	1.00	150.00
LUMINAIRE	0		250	0.50	0
FLASHER				0.50	-
TOTAL =					691.20

ENERGY COSTS TO:
 VILLAGE OF PARK FOREST
 350 VICTORY DRIVE
 PARK FOREST, IL 60466
 ENERGY SUPPLY CONTACT: VALERIE MURPHY
 PHONE: (708)235-2346
 COMPANY: COM ED



DESIGNED - JJF	REVISED -
DRAWN - MAC	REVISED -
CHECKED - TAO	REVISED -
DATE - 8-29-11	FILE - 060670-PH2-TS-TEMP-CABLE

STATE OF ILLINOIS
 ORCHARD DRIVE IMPROVEMENTS

TEMPORARY TRAFFIC SIGNAL CABLE PLAN
 AND PHASE DESIGNATION DIAGRAM
 ORCHARD DR AND MAIN STREET

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	114
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635	
			M-80031661	

SCALE: NONE

STA. TO STA.

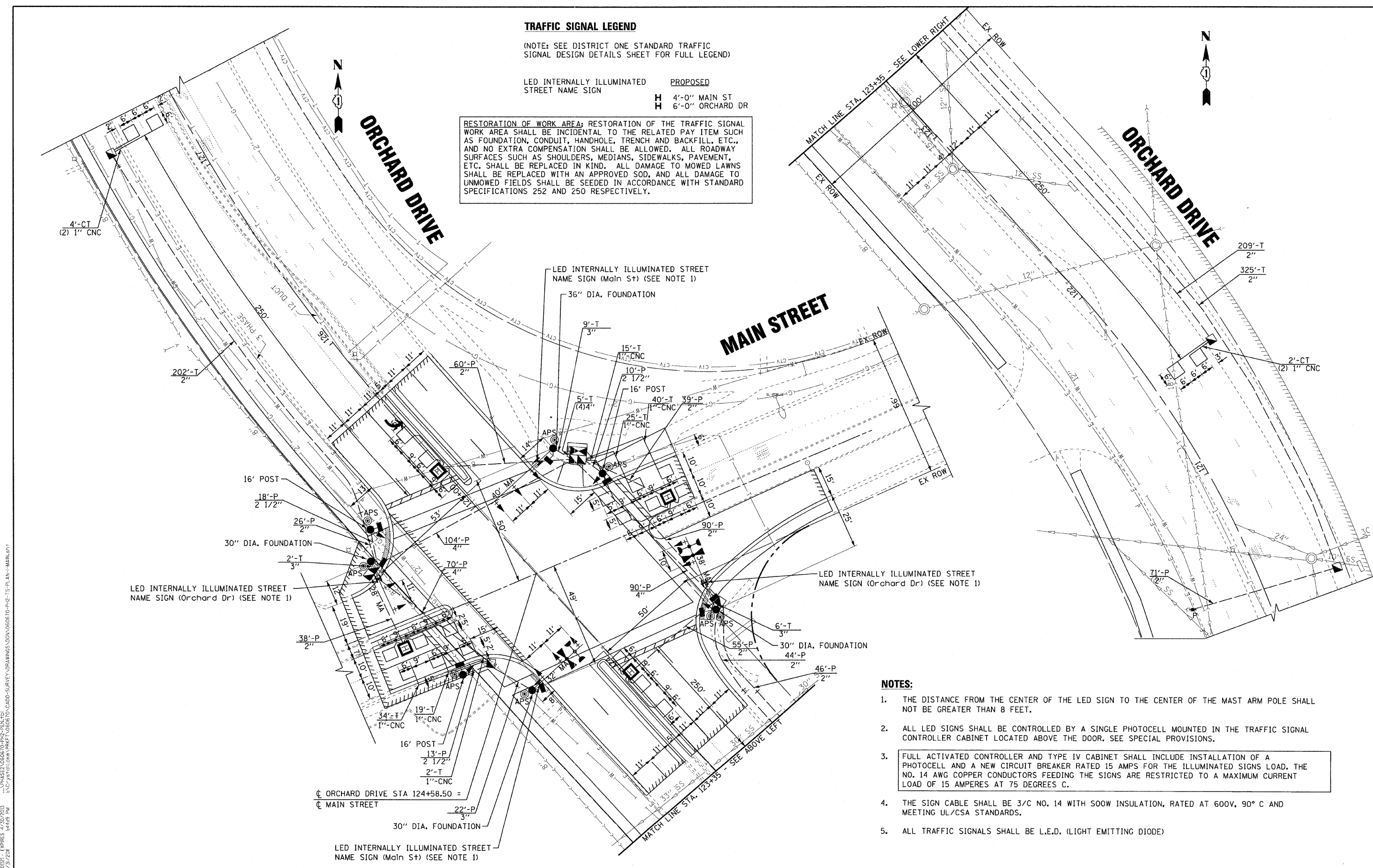
DESIGNED BY: BAXTER WOODMAN, INC.
 DRAWN BY: JAMES J. FURBER, PROFESSIONAL ENGINEER
 LICENSE NO.: 98-00181 - EXPIRES 4/30/2013
 FILE NO.: 060670-PH2-TS-TEMP-CABLE-114444-114

TRAFFIC SIGNAL LEGEND

(NOTE: SEE DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS SHEET FOR FULL LEGEND)

LED INTERNALLY ILLUMINATED STREET NAME SIGN PROPOSED
H 4'-0" MAIN ST
H 6'-0" ORCHARD DR

RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO 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.



- NOTES:**
1. THE DISTANCE FROM THE CENTER OF THE LED SIGN TO THE CENTER OF THE MAST ARM POLE SHALL NOT BE GREATER THAN 8 FEET.
 2. ALL LED SIGNS SHALL BE CONTROLLED BY A SINGLE PHOTOCELL MOUNTED IN THE TRAFFIC SIGNAL CONTROLLER CABINET LOCATED ABOVE THE DOOR. SEE SPECIAL PROVISIONS.
 3. FULL ACTIVATED CONTROLLER AND TYPE IV CABINET SHALL INCLUDE INSTALLATION OF A PHOTOCELL AND A NEW CIRCUIT BREAKER RATED 15 AMPS FOR THE ILLUMINATED SIGNS LOAD. THE NO. 14 AWG COPPER CONDUCTORS FEEDING THE SIGNS ARE RESTRICTED TO A MAXIMUM CURRENT LOAD OF 15 AMPERES AT 75 DEGREES C.
 4. THE SIGN CABLE SHALL BE 3/C NO. 14 WITH SOOW INSULATION, RATED AT 600V, 90° C AND MEETING UL/CSA STANDARDS.
 5. ALL TRAFFIC SIGNALS SHALL BE L.E.D. (LIGHT EMITTING DIODE)

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STATE OF ILLINOIS
LICENSE NO. 184-000121 - EXPIRES 7/30/2013
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\\s:\projects\60670\PH2-TS-PLAN-1-MAIN.dwg
PHASE 2: 060670-00-PP2-TS-PLAN-1-MAIN.dwg
10/23/2011 1:44:59 PM



DESIGNED - JJF	REVISED -
DRAWN - MAC	REVISED -
CHECKED - TAO	REVISED -
DATE - 8-29-11.1	FILE - 060670-PH2-TS-PLAN-1-MAIN.shp

**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

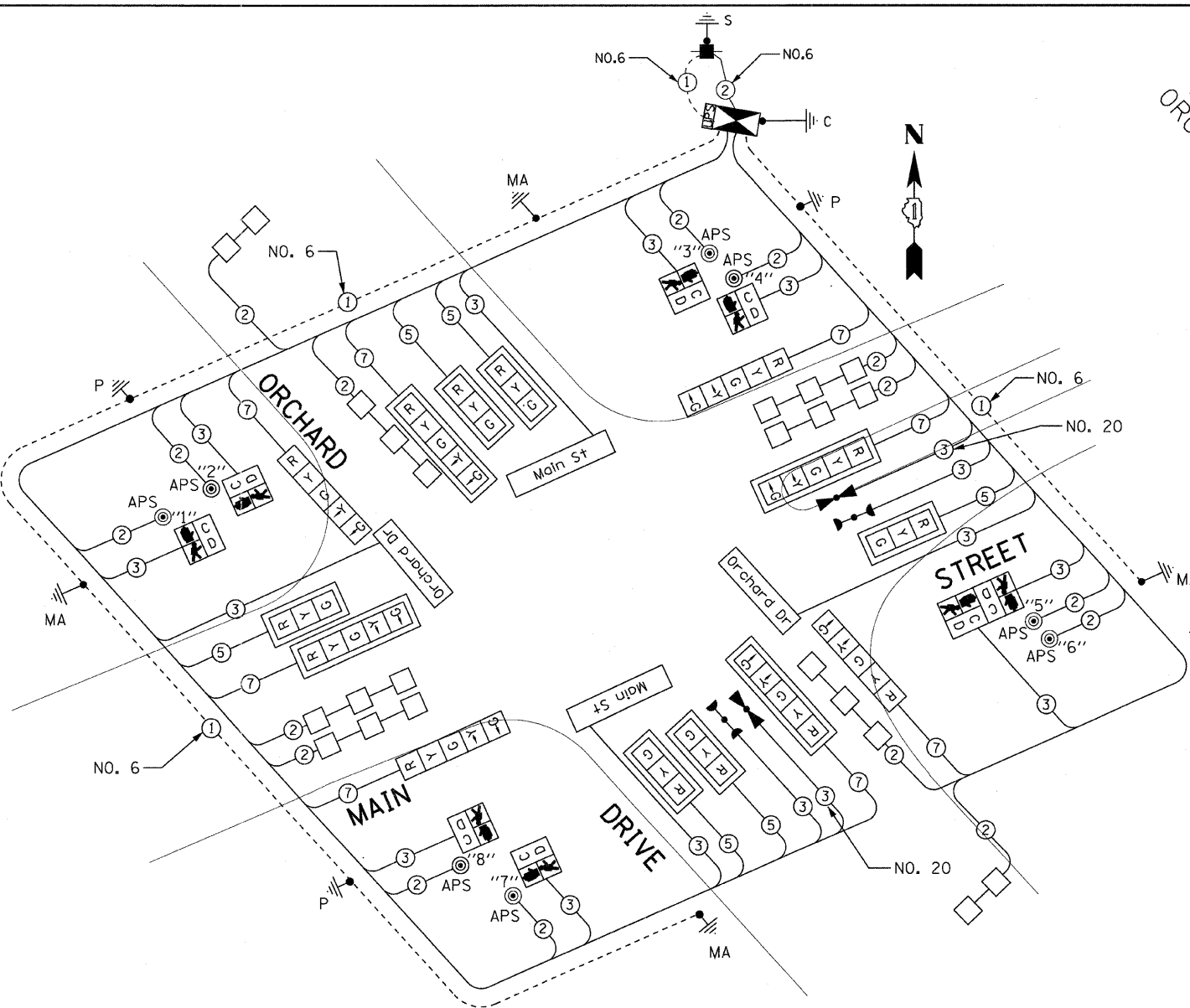
**TRAFFIC SIGNAL MODERNIZATION PLAN
ORCHARD DRIVE AND MAIN STREET**

SCALE: STA. TO STA.

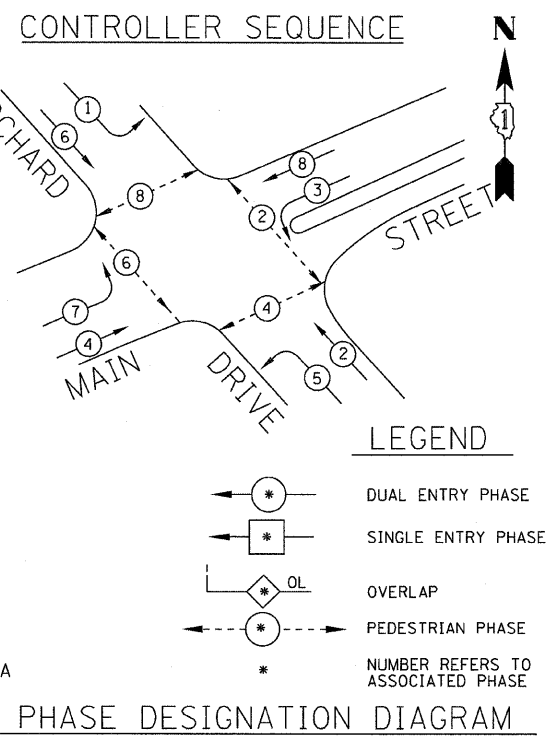
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	115
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635	
			W-80031661	

SCHEDULE OF QUANTITIES

80500020 SERVICE INSTALLATION - POLE MOUNTED	EACH	1
81028200 UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1134
81028210 UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	41
81028220 UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	39
81028240 UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	280
81400100 HANDHOLE	EACH	4
81400200 HEAVY-DUTY HANDHOLE	EACH	4
81400300 DOUBLE HANDHOLE	EACH	2
85700200 FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
86200300 UNINTERRUPTIBLE POWER SUPPLY, EXTENDED	EACH	1
87301215 ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	1484
87301225 ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	1761
87301245 ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	954
87301255 ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	1287
87301305 ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2163
87301800 ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 4 2 C	FOOT	582
87301900 ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	383
87502500 TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
87700180 STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
87700200 STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
87700230 STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
87700240 STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
87800100 CONCRETE FOUNDATION, TYPE A	FOOT	12
87800150 CONCRETE FOUNDATION, TYPE C	FOOT	4
87800400 CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	37
87800415 CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
88030020 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
88030100 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
88030110 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
88102717 PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
88102747 PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
88200210 TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	10
88500100 INDUCTIVE LOOP DETECTOR	EACH	10
88600100 DETECTOR LOOP, TYPE I	FOOT	889
88700200 LIGHT DETECTOR	EACH	2
88700300 LIGHT DETECTOR AMPLIFIER	EACH	1
89000100 TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
89100400 ILLUMINATED SIGN, LED	EACH	4
89502300 REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	6563
89502375 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502385 REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
89502380 REMOVE EXISTING HANDHOLE	EACH	8
89502382 REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
Z0073510 TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
X8730250 ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	442
X8760200 ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8



CABLE PLAN



PHASE DESIGNATION DIAGRAM

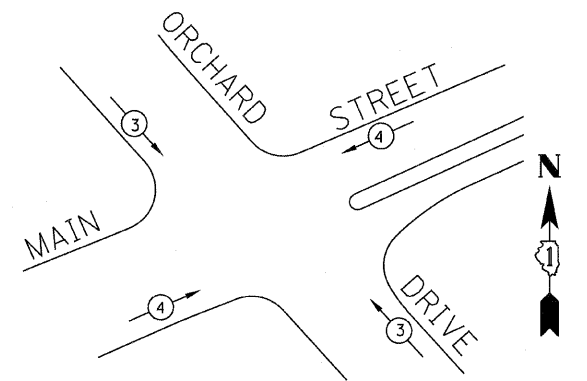
ACCESSIBLE PEDESTRIAN SIGNALS

PUSHBUTTON NUMBER	DIRECTION OF TRAVEL	PHASE	CROSSING	WALK INTERVAL MESSAGE	EXTENDED 3-SECONDS DEPRESSED TIME MESSAGE
1	SOUTH	6	MAIN STREET	"WALK SIGN, MAIN STREET"	"WAIT TO CROSS MAIN STREET, TRAVELING SOUTH"
2	EAST	8	ORCHARD DRIVE	"WALK SIGN, ORCHARD DRIVE"	"WAIT TO CROSS ORCHARD DRIVE, TRAVELING EAST"
3	WEST	8	ORCHARD DRIVE	"WALK SIGN, ORCHARD DRIVE"	"WAIT TO CROSS ORCHARD DRIVE, TRAVELING WEST"
4	SOUTH	2	MAIN STREET	"WALK SIGN, MAIN STREET"	"WAIT TO CROSS MAIN STREET, TRAVELING SOUTH"
5	NORTH	2	MAIN STREET	"WALK SIGN, MAIN STREET"	"WAIT TO CROSS MAIN STREET, TRAVELING NORTH"
6	WEST	4	ORCHARD DRIVE	"WALK SIGN, ORCHARD DRIVE"	"WAIT TO CROSS ORCHARD DRIVE, TRAVELING WEST"
7	EAST	4	ORCHARD DRIVE	"WALK SIGN, ORCHARD DRIVE"	"WAIT TO CROSS ORCHARD DRIVE, TRAVELING EAST"
8	NORTH	6	MAIN STREET	"WALK SIGN, MAIN STREET"	"WAIT TO CROSS MAIN STREET, TRAVELING NORTH"

CABLE PLAN LEGEND

(NOTE: SEE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS SHEET FOR FULL LEGEND)

Main St LED INTERNALLY ILLUMINATED STREET NAME SIGNS



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3 4
MOVEMENT	↘ ↗

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	%OPERATION	
SIGNAL (RED)	14		17	0.50	119.00
(YELLOW)	14		25	0.25	87.50
(GREEN)	14		15	0.25	52.50
ARROW	16		12	0.10	19.20
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1	100		1.00	100.00
ILLUM. SIGN	4		90	0.50	180.00
VIDEO DET.	0		150	1.00	0
LUMINAIRE	0	250		0.50	0
FLASHER				0.50	-
TOTAL =					758.20

ENERGY COSTS TO:
VILLAGE OF PARK FOREST
350 VICTORY DRIVE
PARK FOREST, ILLINOIS 60466
ENERGY SUPPLY CONTACT: VALERIE MURPHY
PHONE: (708)235-2346
COMPANY: COM ED



DESIGNED - JUF	REVISED -
DRAWN - MAC	REVISED -
CHECKED - TLH	REVISED -
DATE - 10/31/11	FILE - 060670-PH2-ts-cable-1-MAIN.shp

STATE OF ILLINOIS ORCHARD DRIVE IMPROVEMENTS

TRAFFIC SIGNAL CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES ORCHARD DRIVE AND MAIN STREET

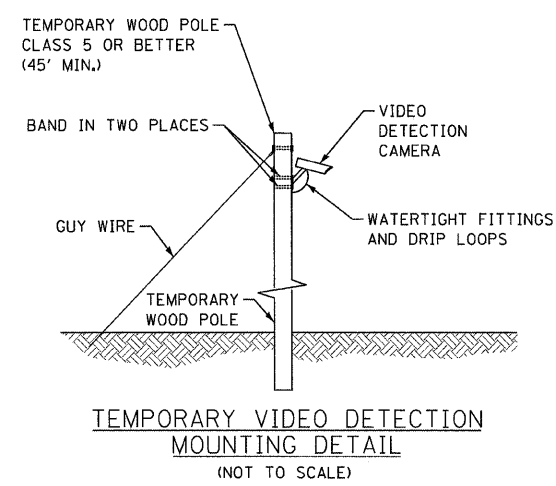
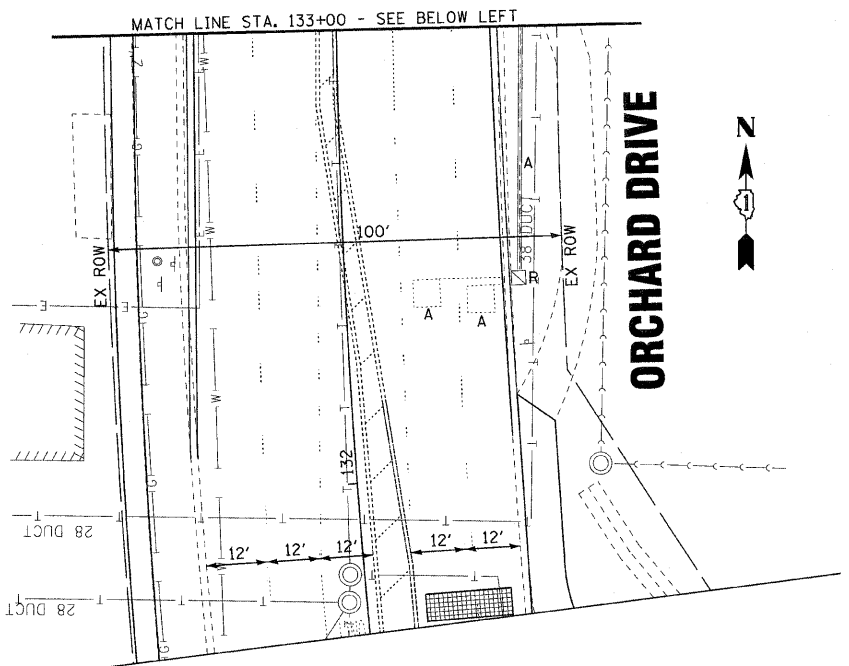
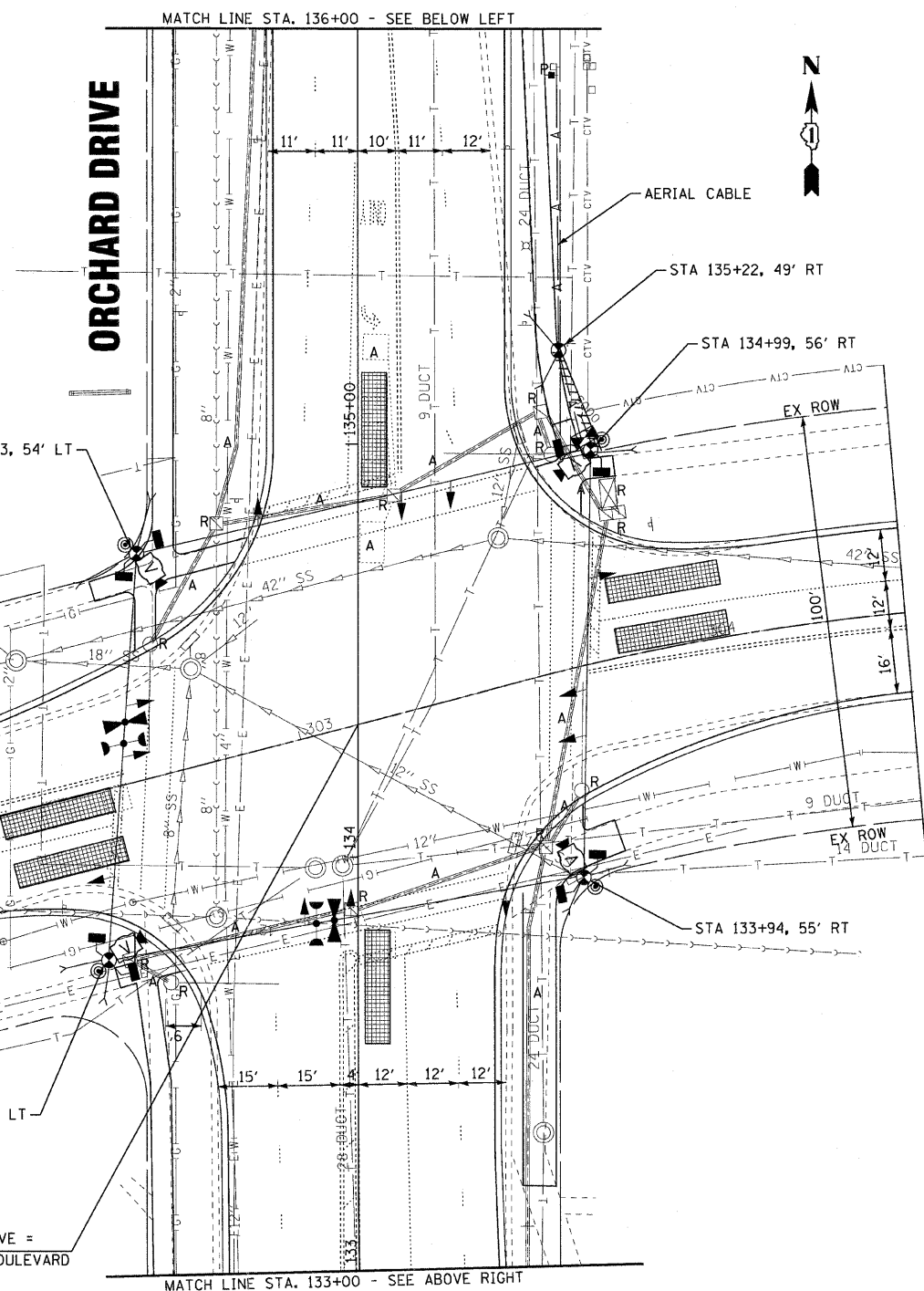
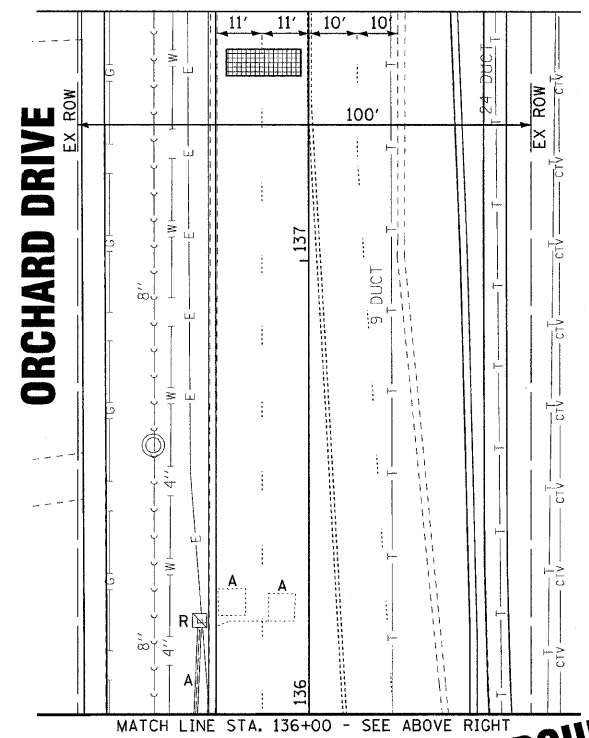
SCALE: NONE STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	116
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635	
			N-80031661	

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 LICENSE NO. 284-00321 - EXPIRES 4/30/2013
 2633mc

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED 12". HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) 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.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT ONE AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.
11. ELIMINATE PHASE 1, 3 AND 6 ON CONTROLLER SEQUENCE AND BARRICADE WB TO SB LEFT TURN LANE WHILE DETOUR ROUTE IS IN OPERATION.



RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO 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.

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

- 4 EACH PEDESTRIAN SIGNAL HEAD, 2 FACE
- 4 EACH PUSH BUTTON
- 2 EACH SIGNAL HEAD, 1 FACE, 3 SECTION
- 8 EACH SIGNAL HEAD, 1 FACE, 5 SECTION
- 4 EACH STEEL COMBINATION MAST ARM AND POLE
- 1 EACH CONTROLLER AND CABINET (COMPLETE)

DESIGNED BY: BAXTER & WOODMAN, INC. PROJECT NO.: 060670-PH2-TS-TEMP-PLAN-2-LKEWD.sht
 DRAWN BY: MAC
 CHECKED BY: TAO
 DATE: 10/24/11
 LICENSE NO.: 84-00021 - EXPIRES 4/30/2013
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DESIGNED - JUF	REVISED -
DRAWN - MAC	REVISED -
CHECKED - TAO	REVISED -
DATE - 10/24/11	FILE - 060670-PH2-TS-TEMP-PLAN-2-LKEWD.sht

**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

**TEMPORARY TRAFFIC SIGNAL PLAN
AND TRAFFIC SIGNAL REMOVAL PLAN
ORCHARD DRIVE AND LAKEWOOD BOULEVARD**

SCALE: 1"=20'

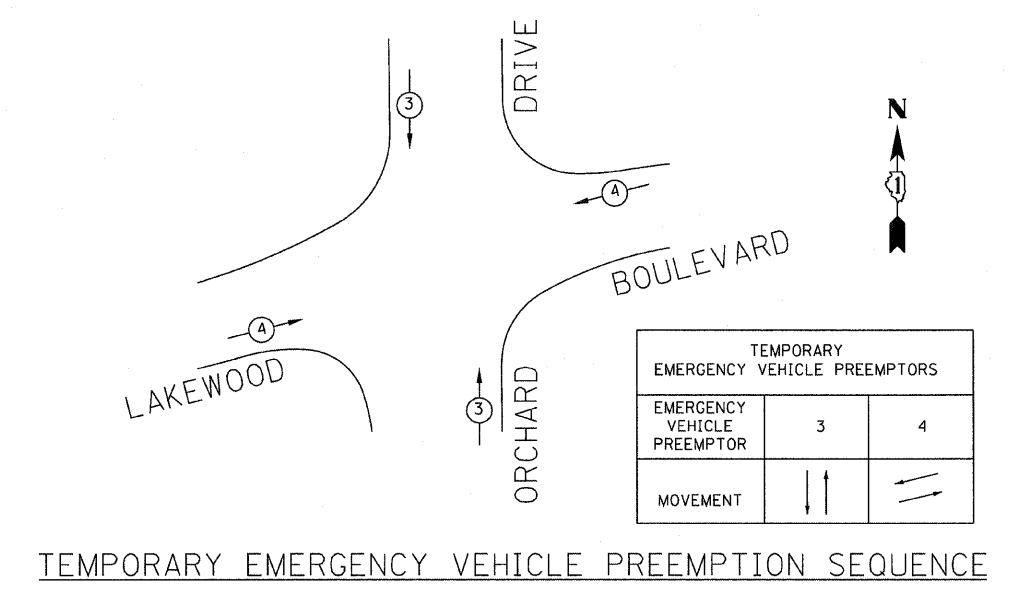
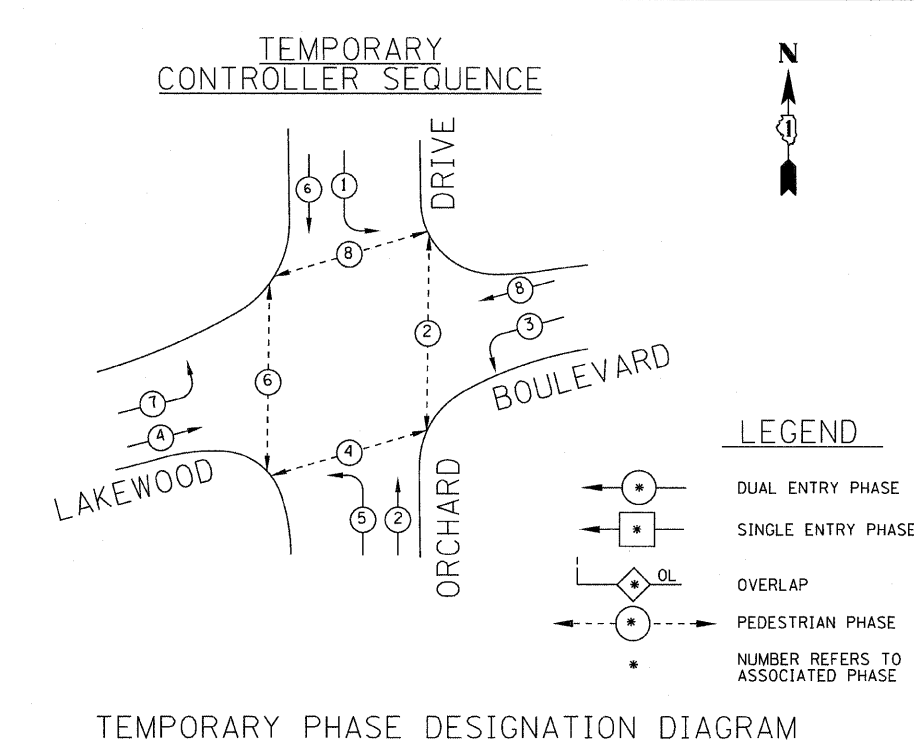
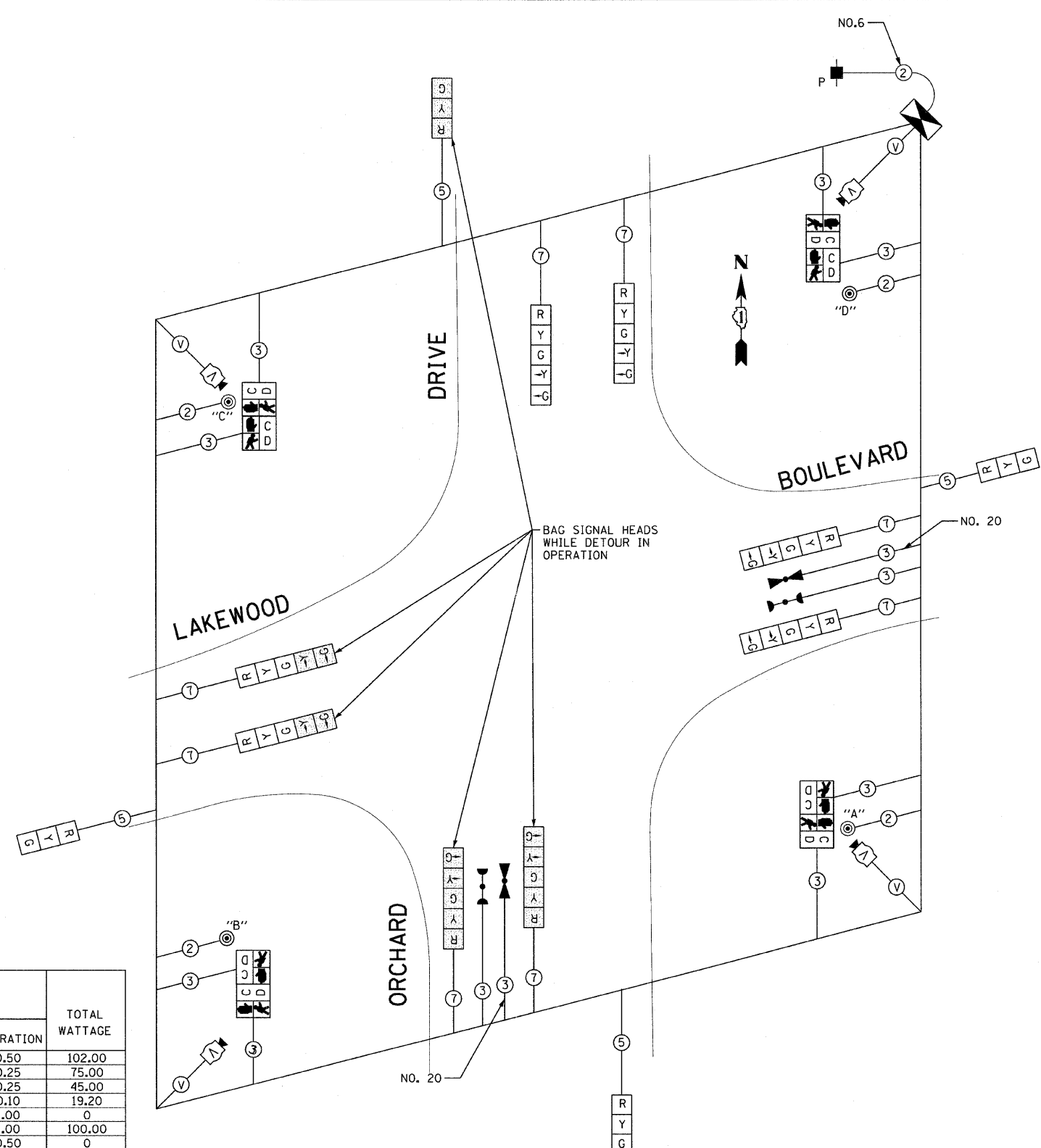
STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	117
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635 M-80031661	

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 LICENSE NO. 184-000211, EXPIRES 7/30/2013
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I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	%OPERATION	
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	16		12	0.10	19.20
PED. SIGNAL	0		25	1.00	0
CONTROLLER	1	100		1.00	100.00
ILLUM. SIGN	0		90	0.50	0
VIDEO DET.	1		150	1.00	150.00
LUMINAIRE	0	250		0.50	0
FLASHER				0.50	-
				TOTAL =	491.20

ENERGY COSTS TO:
 VILLAGE OF PARK FOREST
 350 VICTORY DRIVE
 PARK FOREST, IL 60466
 ENERGY SUPPLY CONTACT: VALERIE MURPHY
 PHONE: (708)235-2346
 COMPANY: COM ED



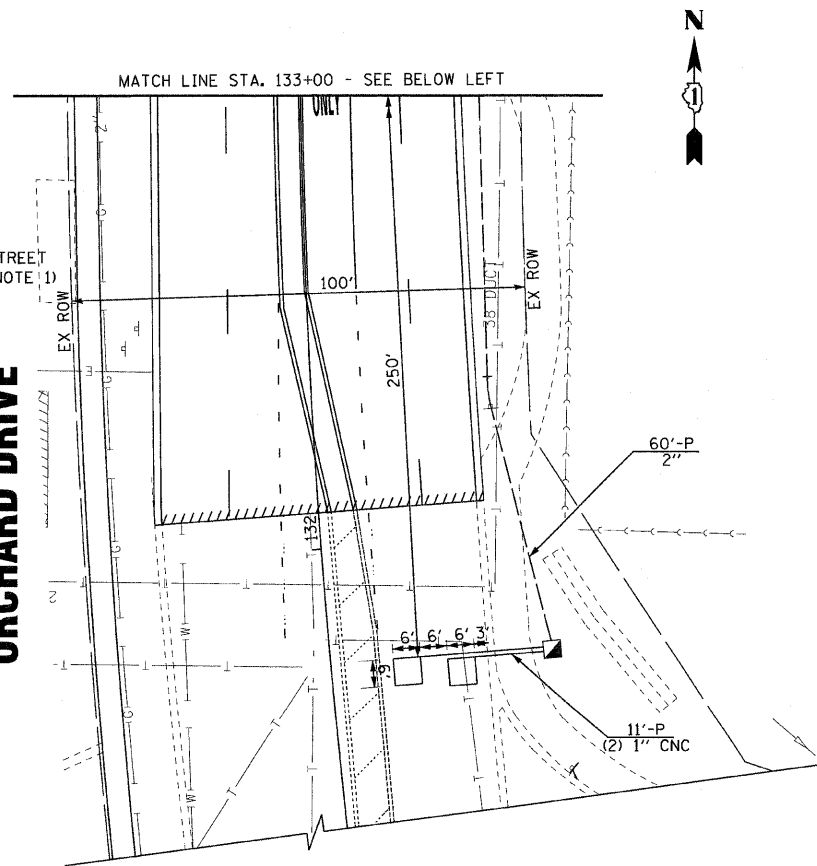
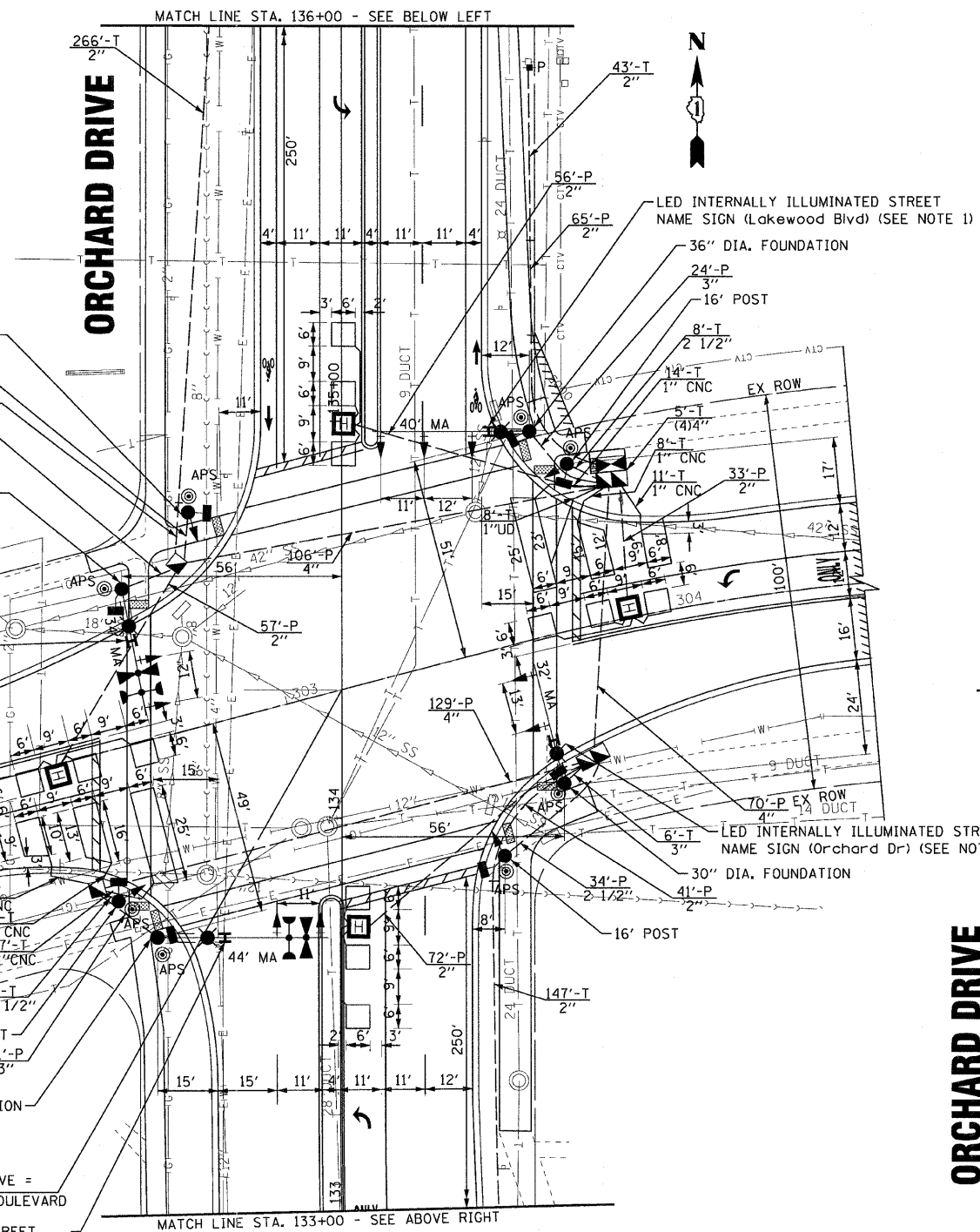
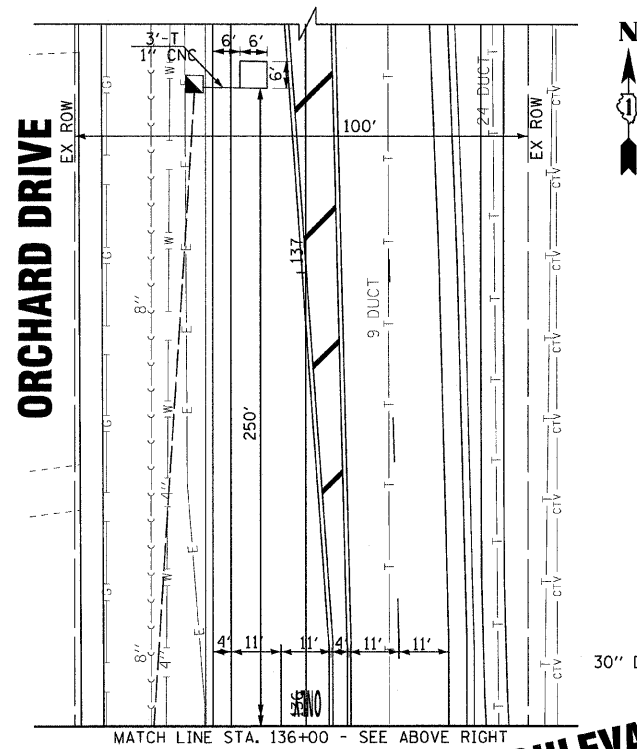
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DRAWN - CJC	REVISED -
CHECKED - TAO	REVISED -
DATE - 10/24/11	FILE - 060670-PH2-TS-TEMP-CABLE 2.sht

STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS

TEMPORARY TRAFFIC SIGNAL CABLE PLAN
AND PHASE DESIGNATION DIAGRAM
ORCHARD DR AND LAKEWOOD BOULEVARD

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	118
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635	
			M-60031661	

SCALE: NONE STA. TO STA.



NOTES:

1. THE DISTANCE FROM THE CENTER OF THE LED SIGN TO THE CENTER OF THE MAST ARM POLE SHALL NOT BE GREATER THAN 8 FEET.
2. ALL LED SIGNS SHALL BE CONTROLLED BY A SINGLE PHOTOCELL MOUNTED IN THE TRAFFIC SIGNAL CONTROLLER CABINET LOCATED ABOVE THE DOOR. SEE SPECIAL PROVISIONS.
3. FULL ACTIVATED CONTROLLER AND TYPE IV CABINET SHALL INCLUDE INSTALLATION OF A PHOTOCELL AND A NEW CIRCUIT BREAKER RATED 15 AMPS FOR THE ILLUMINATED SIGNS LOAD. THE NO. 14 AWG COPPER CONDUCTORS FEEDING THE SIGNS ARE RESTRICTED TO A MAXIMUM CURRENT LOAD OF 15 AMPERES AT 75 DEGREES C.
4. THE SIGN CABLE SHALL BE 3/C NO. 14 WITH 500W INSULATION, RATED AT 600V, 90° C AND MEETING UL/CSA STANDARDS.
5. ALL TRAFFIC SIGNALS SHALL BE L.E.D. (LIGHT EMITTING DIODE)
6. THERE IS NO LIGHTING CONTROLLER PROVIDED FOR THIS INTERSECTION. THE CIRCUIT BREAKER AND THE DISCONNECT SHALL BE INSTALLED WITHIN THE TRAFFIC SIGNAL CABINET. THE PHOTOCELL SHALL BE MOUNTED ON THE TRAFFIC SIGNAL CABINET AWAY FROM DIRECT SUNLIGHT. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE NEW TRAFFIC CONTROLLER.

RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO 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.

TRAFFIC SIGNAL LEGEND

(NOTE: SEE DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS SHEET FOR FULL LEGEND)

- LED INTERNALLY ILLUMINATED STREET NAME SIGN
- PROPOSED
- H 6'-0" ORCHARD DR
 - H 8'-0" LAKEWOOD BLVD



DESIGNED - JJF	REVISIONS
DRAWN - MAC	REVISIONS
CHECKED - TAO	REVISIONS
DATE - 10/24/11	FILE - 060670-PH2-TS-PLAN-2-LKEW.D.sht

STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS

TRAFFIC SIGNAL MODERNIZATION PLAN
ORCHARD DRIVE AND LAKEWOOD BOULEVARD

SCALE: 1"=20'

STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	119
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635	
			M-8003166U	

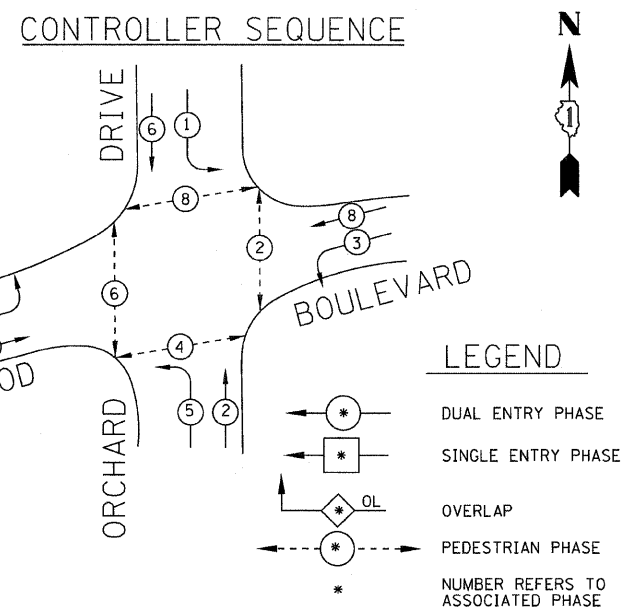
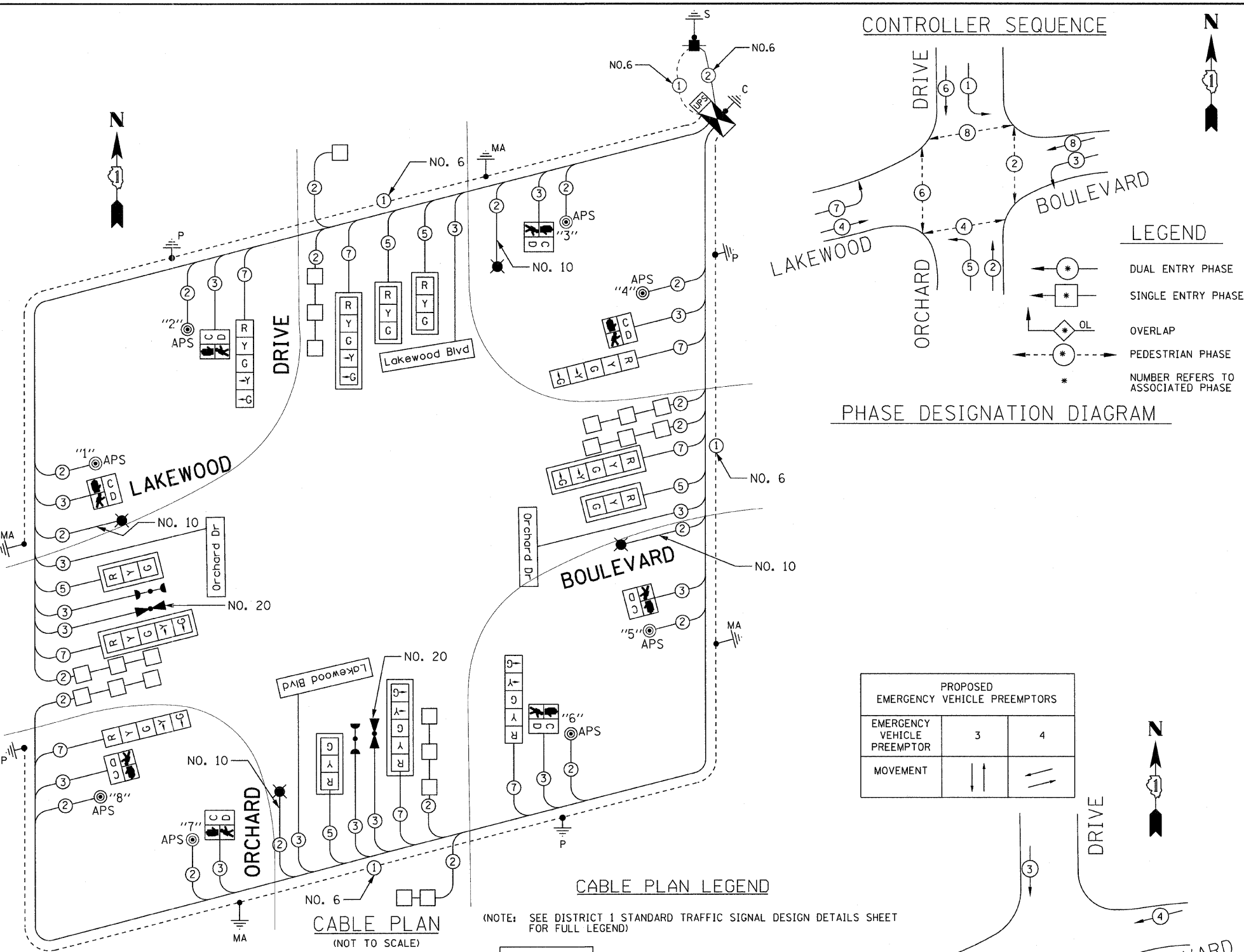
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 STATE LICENSE NO. 060670-PH2-TS-PLAN-2-LKEW.D.sht
 LICENSE NO. 060670-PH2-TS-PLAN-2-LKEW.D.sht
 EXPIRES 4/30/2013
 10/24/2011 14:42:41 PM

SCHEDULE OF QUANTITIES

80500020 SERVICE INSTALLATION - POLE MOUNTED	EACH	1
81028200 UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	793
81028210 UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	63
81028220 UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	72
81028240 UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	320
81400100 HANDHOLE	EACH	4
81400200 HEAVY-DUTY HANDHOLE	EACH	4
81400300 DOUBLE HANDHOLE	EACH	2
81700215 ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 2-1/C NO. 10	FOOT	730
82102250 LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	4
85700200 FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
86200300 UNINTERRUPTIBLE POWER SUPPLY, EXTENDED	EACH	1
87301215 ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	2347
87301225 ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	1873
87301245 ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	783
87301255 ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	1075
87301305 ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1434
87301805 ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	125
87301900 ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	483
87502500 TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
87702890 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH	1
87702900 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1
87702930 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1
87702950 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	1
87800100 CONCRETE FOUNDATION, TYPE A	FOOT	16
87800150 CONCRETE FOUNDATION, TYPE C	FOOT	4
87800400 CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	27
87800415 CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26
88030020 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5
88030100 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
88030110 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
88102717 PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
88200210 TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	9
88500100 INDUCTIVE LOOP DETECTOR	EACH	9
88600100 DETECTOR LOOP, TYPE I	FOOT	907
88700200 LIGHT DETECTOR	EACH	2
88700300 LIGHT DETECTOR AMPLIFIER	EACH	1
89000100 TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
89100400 ILLUMINATED SIGN, LED	EACH	4
89502300 REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5774
89502375 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502385 REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
89502380 REMOVE EXISTING HANDHOLE	EACH	8
89502382 REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
Z0073510 TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
X8730250 ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	511
X8760200 ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
X8760250 VIBROTACTILE FEATURE	EACH	8

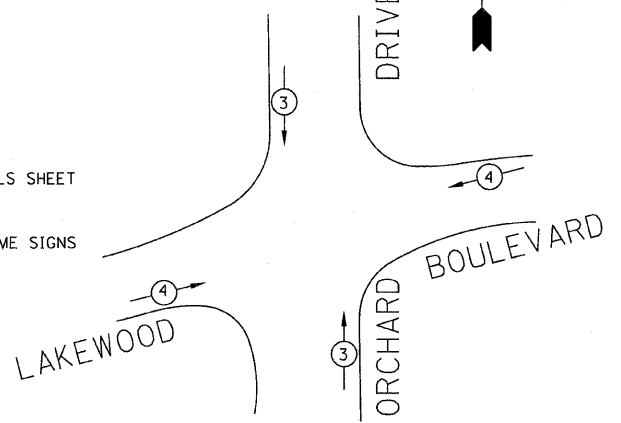
I.D.O.T					TOTAL WATTAGE
TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE (INCAND.)	LED	%OPERATION	
SIGNAL (RED)	13		17	0.50	110.5
(YELLOW)	13		25	0.25	81.25
(GREEN)	13		15	0.25	48.75
ARROW	16		12	0.10	19.2
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1	100		1.00	100.00
ILLUM. SIGN	4		90	0.50	180.00
VIDEO DET.	0		150	1.00	0
LUMINAIRE	4	400		0.50	800
FLASHER				0.50	-
ENERGY COSTS TO:					TOTAL = 1539.7
VILLAGE OF PARK FOREST					
350 VICTORY DRIVE					
PARK FOREST, ILLINOIS 60466					
ENERGY SUPPLY CONTACT: VALERIE MURPHY					
PHONE: (708)235-2346					
COMPANY: COM ED					

PUSHBUTTON NUMBER	DIRECTION OF TRAVEL	PHASE	CROSSING	WALK INTERVAL MESSAGE	EXTENDED 3-SECONDS DEPRESSED TIME MESSAGE
1	SOUTH	6	LAKWOOD BLVD	"WALK SIGN, LAKWOOD BLVD"	"WAIT TO CROSS LAKWOOD BLVD, TRAVELING SOUTH"
2	EAST	8	ORCHARD DRIVE	"WALK SIGN, ORCHARD DRIVE"	"WAIT TO CROSS ORCHARD DRIVE, TRAVELING EAST"
3	WEST	8	ORCHARD DRIVE	"WALK SIGN, ORCHARD DRIVE"	"WAIT TO CROSS ORCHARD DRIVE, TRAVELING WEST"
4	SOUTH	2	LAKWOOD BLVD	"WALK SIGN, LAKWOOD BLVD"	"WAIT TO CROSS LAKWOOD BLVD, TRAVELING SOUTH"
5	NORTH	2	LAKWOOD BLVD	"WALK SIGN, LAKWOOD BLVD"	"WAIT TO CROSS LAKWOOD BLVD, TRAVELING NORTH"
6	WEST	4	ORCHARD DRIVE	"WALK SIGN, ORCHARD DRIVE"	"WAIT TO CROSS ORCHARD DRIVE, TRAVELING WEST"
7	EAST	4	ORCHARD DRIVE	"WALK SIGN, ORCHARD DRIVE"	"WAIT TO CROSS ORCHARD DRIVE, TRAVELING EAST"
8	NORTH	6	LAKWOOD BLVD	"WALK SIGN, LAKWOOD BLVD"	"WAIT TO CROSS LAKWOOD BLVD, TRAVELING NORTH"



PHASE DESIGNATION DIAGRAM

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



EMERGENCY VEHICLE PREEMPTION SEQUENCE

CABLE PLAN LEGEND

(NOTE: SEE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS SHEET FOR FULL LEGEND)

ACCESSIBLE PEDESTRIAN SIGNALS

STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS

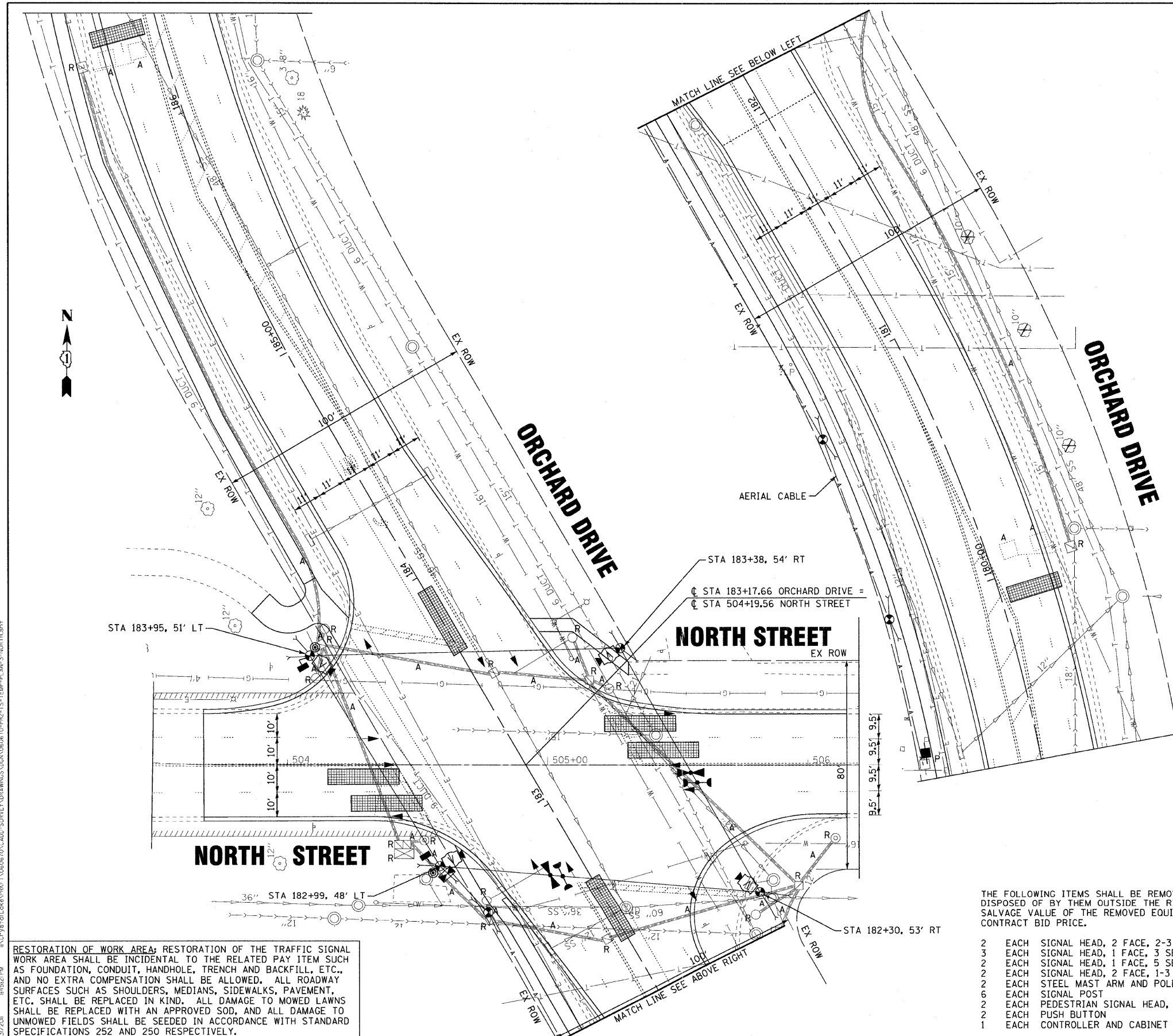
TRAFFIC SIGNAL CABLE PLAN,
PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES
ORCHARD DRIVE AND LAKWOOD BOULEVARD

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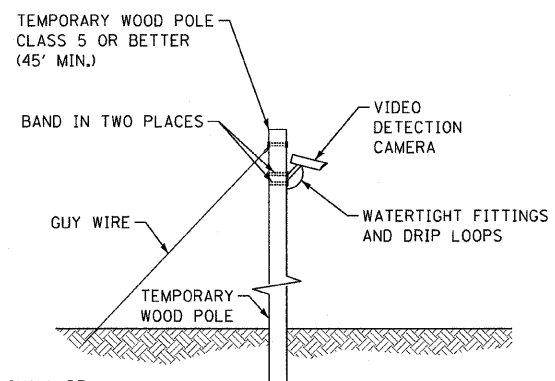
DESIGNED - JUF	REVISED -
DRAWN - MAC	REVISED -
CHECKED - TAO	REVISED -
DATE - 10/31/11	FILE - 060670-PH2+ts-cable-2-LKEWD.sht

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	120
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635	
			M-603J66U	



NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED 12". HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) 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.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT ONE AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.
11. ELIMINATE PHASE 1 AND 6 ON CONTROLLER SEQUENCE WHILE DETOUR ROUTE IS IN OPERATION.



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

- 2 EACH SIGNAL HEAD, 2 FACE, 2-3 SECTION
- 3 EACH SIGNAL HEAD, 1 FACE, 3 SECTION
- 2 EACH SIGNAL HEAD, 1 FACE, 5 SECTION
- 2 EACH SIGNAL HEAD, 2 FACE, 1-3 SECTION, 1-5 SECTION
- 2 EACH STEEL MAST ARM AND POLE
- 6 EACH SIGNAL POST
- 2 EACH PEDESTRIAN SIGNAL HEAD, 1 FACE
- 2 EACH PUSH BUTTON
- 1 EACH CONTROLLER AND CABINET (COMPLETE)

RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO 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.



DESIGNED - JJF	REVISED -
DRAWN - MAC	REVISED -
CHECKED - TAO	REVISED -
DATE - 10/24/11	FILE - 060670-PH2-TS-TEMP-PLAN-NORTH.sht

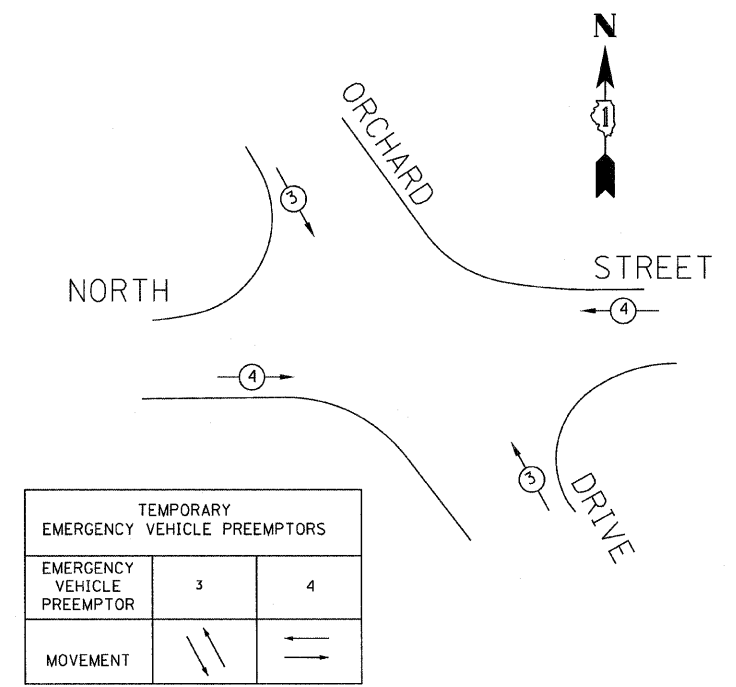
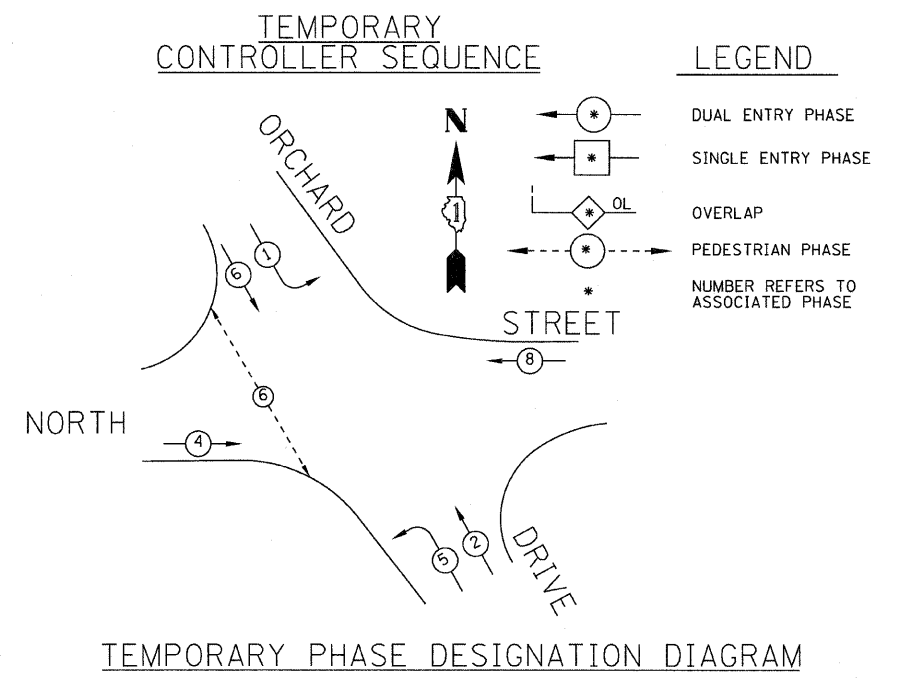
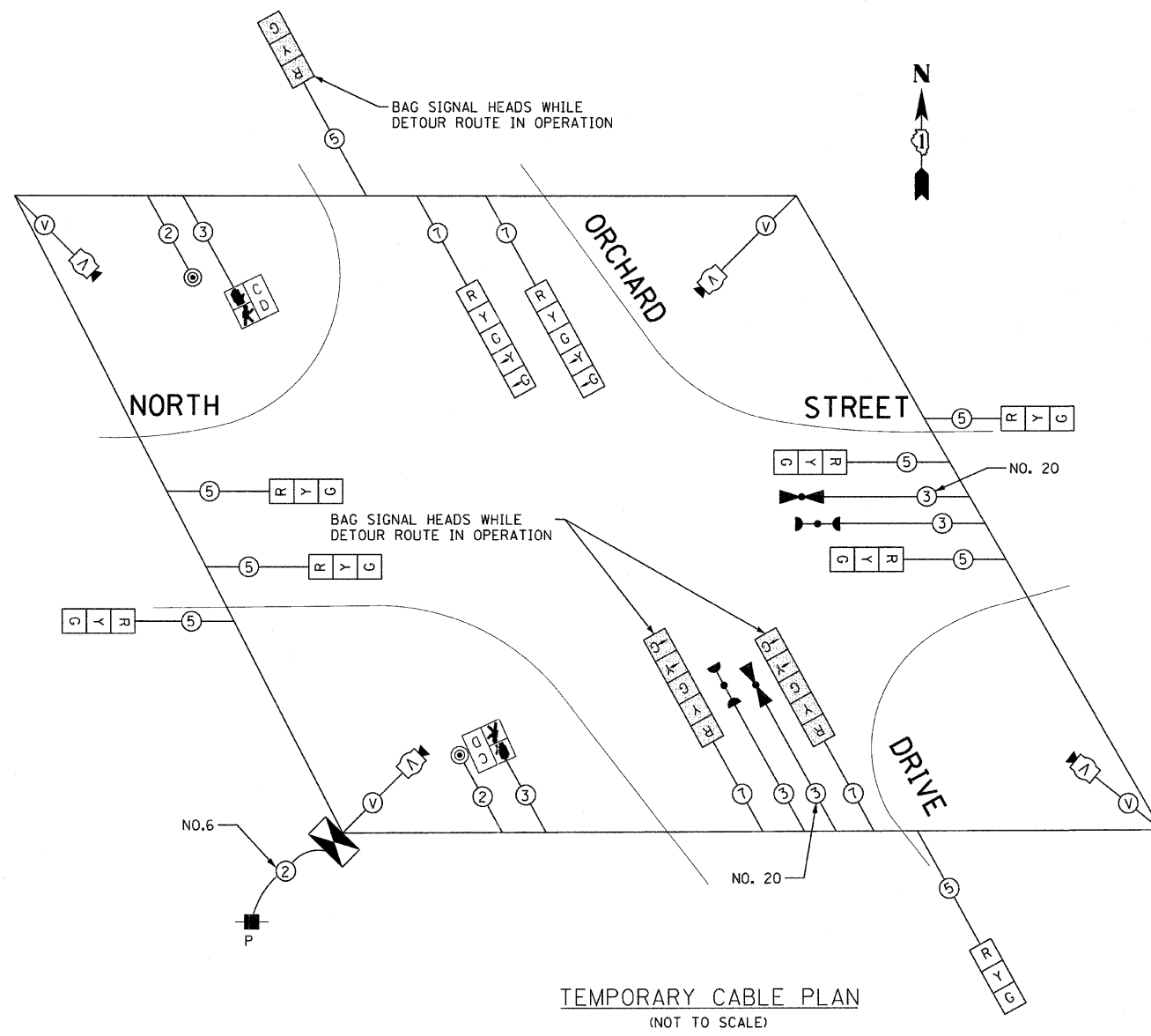
**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

**TEMPORARY TRAFFIC SIGNAL PLAN
AND TRAFFIC SIGNAL REMOVAL PLAN
ORCHARD DRIVE AND NORTH STREET**

SCALE: 1"=20'
STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	121
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635	
			W-6003661	

DRAWN BY: J. J. F. 10/24/11
 CHECKED BY: T. A. O. 10/24/11
 DATE: 10/24/11
 PROJECT: 060670-PH2-TS-TEMP-PLAN-NORTH.sht
 SHEET: 121 OF 200
 CONTRACT: 63635
 PROJECT: W-6003661



I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	%OPERATION	
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	8		12	0.10	9.60
PED. SIGNAL	2		25	1.00	50.00
CONTROLLER	1	100		1.00	100.00
ILLUM. SIGN	0		90	0.50	0
VIDEO DET.	1		150	1.00	150.00
LUMINAIRE	0	250		0.50	0
FLASHER				0.50	-
TOTAL =					531.60

ENERGY COSTS TO:
VILLAGE OF PARK FOREST
350 VICTORY DRIVE
PARK FOREST, IL 60466

ENERGY SUPPLY CONTACT: VALERIE MURPHY
PHONE: (708)235-2346
COMPANY: COM ED



DESIGNED - JUF	REVISED -
DRAWN - MAC	REVISED -
CHECKED - JUF	REVISED -
DATE - 10/24/11	FILE - 060670-PH2-TS-TEMP-CABLE-3.sht

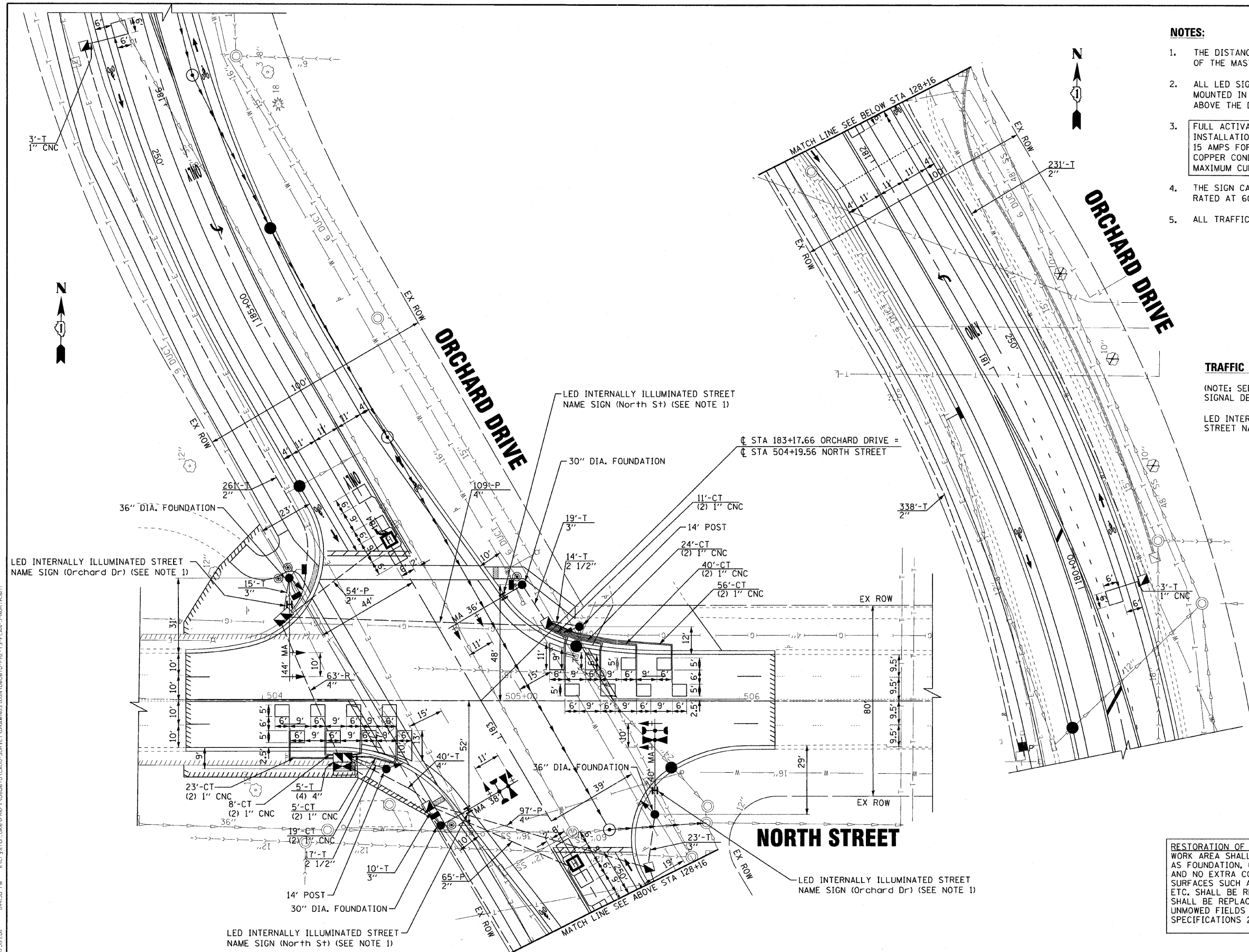
**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

**TEMPORARY TRAFFIC SIGNAL CABLE PLAN
AND PHASE DESIGNATION DIAGRAM
ORCHARD DRIVE AND NORTH STREET**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	122
CONTRACT NO. 63635				

SCALE: NONE STA. TO STA. FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT M-800316611

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 LICENSE NO. 184-001212 EXPIRES 4/30/2013
 10/31/2011 10:45:52 PM



- NOTES:**
1. THE DISTANCE FROM THE CENTER OF THE LED SIGN TO THE CENTER OF THE MAST ARM POLE SHALL NOT BE GREATER THAN 8 FEET.
 2. ALL LED SIGNS SHALL BE CONTROLLED BY A SINGLE PHOTOCELL MOUNTED IN THE TRAFFIC SIGNAL CONTROLLER CABINET LOCATED ABOVE THE DOOR. SEE SPECIAL PROVISIONS.
 3. FULL ACTIVATED CONTROLLER AND TYPE IV CABINET SHALL INCLUDE INSTALLATION OF A PHOTOCELL AND A NEW CIRCUIT BREAKER RATED 15 AMPS FOR THE ILLUMINATED SIGNS LOAD. THE NO. 14 AWG COPPER CONDUCTORS FEEDING THE SIGNS ARE RESTRICTED TO A MAXIMUM CURRENT LOAD OF 15 AMPERES AT 75 DEGREES C.
 4. THE SIGN CABLE SHALL BE 3/C NO. 14 WITH 500W INSULATION, RATED AT 600V, 90° C AND MEETING UL/CSA STANDARDS.
 5. ALL TRAFFIC SIGNALS SHALL BE L.E.D. (LIGHT EMITTING DIODE)

TRAFFIC SIGNAL LEGEND

(NOTE: SEE DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS SHEET FOR FULL LEGEND)

LED INTERNALLY ILLUMINATED STREET NAME SIGN	PROPOSED
	H 4'-0" NORTH ST
	H 6'-0" ORCHARD DR

RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO 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.

CONTRACT NO. 2836
 DATE: 10/23/2011
 DRAWN BY: BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-000271 - EXPIRES 7/30/2013
 PROJECT NO. 060670-PH2-TS-PLAN-3-NORTH-ST
 FILE: 060670-PH2-TS-PLAN-3-NORTH-ST



DESIGNED - JJF	REVISED -
DRAWN - MAC	REVISED -
CHECKED - TAO	REVISED -
DATE - 10/24/11	FILE - 060670-PH2-TS-PLAN-3-NORTH.sht

**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

**TRAFFIC SIGNAL MODERNIZATION PLAN
ORCHARD DRIVE AND NORTH STREET**

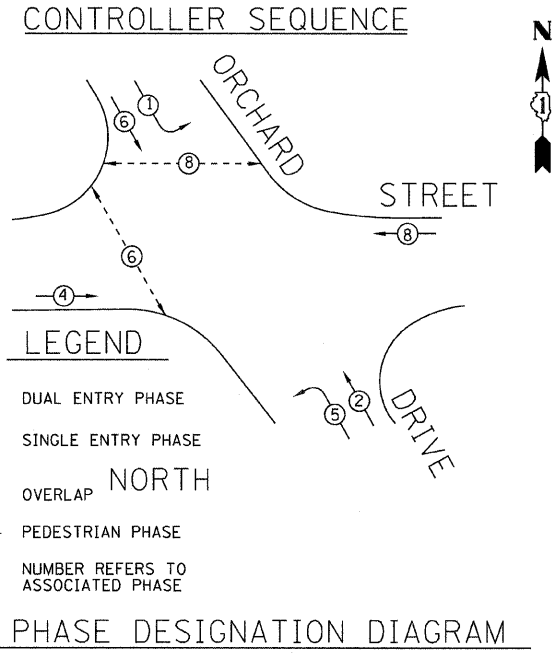
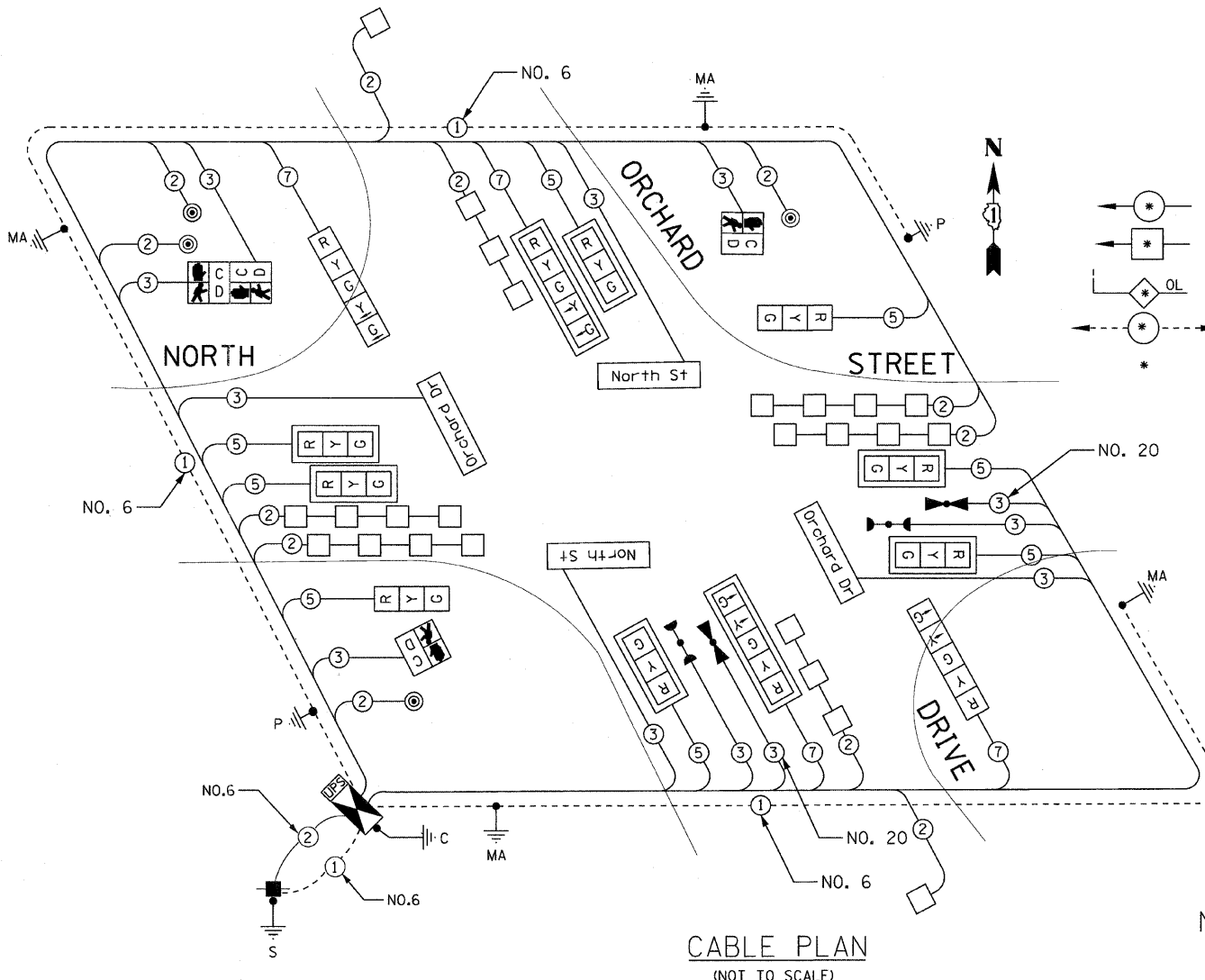
SCALE: 1"=20'

STA. TO STA.

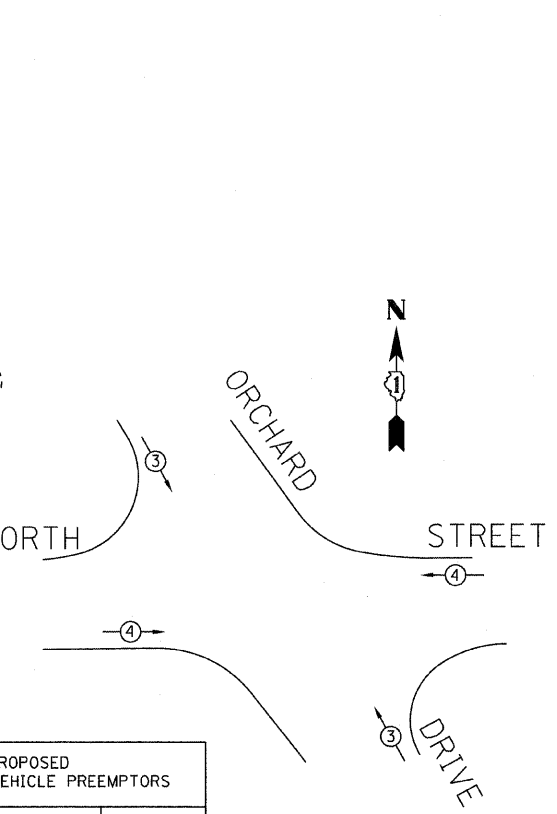
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	123
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635	
			M-8003(661)	

SCHEDULE OF QUANTITIES

80500020 SERVICE INSTALLATION - POLE MOUNTED	EACH	1
81028200 UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	949
81028210 UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	31
81028220 UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	67
81028240 UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	325
81400100 HANDHOLE	EACH	5
81400200 HEAVY-DUTY HANDHOLE	EACH	2
81400300 DOUBLE HANDHOLE	EACH	2
85700200 FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
86200300 UNINTERRUPTIBLE POWER SUPPLY, EXTENDED	EACH	1
87301215 ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	885
87301225 ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	1272
87301245 ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	1312
87301255 ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	860
87301305 ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1443
87301800 ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 4 2 C	FOOT	421
87301900 ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	458
87502480 TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2
87700220 STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
87700230 STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
87700240 STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
87700260 STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
87800100 CONCRETE FOUNDATION, TYPE A	FOOT	8
87800150 CONCRETE FOUNDATION, TYPE C	FOOT	4
87800400 CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	27
87800415 CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26
88030020 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
88030050 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
88030100 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
88030110 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
88102717 PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
88102747 PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
88200210 TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8
88500100 INDUCTIVE LOOP DETECTOR	EACH	8
88600100 DETECTOR LOOP, TYPE I	FOOT	1210
88700200 LIGHT DETECTOR	EACH	2
88700300 LIGHT DETECTOR AMPLIFIER	EACH	1
88800100 PEDESTRIAN PUSH-BUTTON	EACH	4
89000100 TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
89100400 ILLUMINATED SIGN, LED	EACH	4
89502300 REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4250
89502375 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502385 REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
89502380 REMOVE EXISTING HANDHOLE	EACH	8
89502382 REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
Z0073510 TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
X8730250 ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	370



PHASE DESIGNATION DIAGRAM



CABLE PLAN LEGEND
 (NOTE: SEE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS SHEET FOR FULL LEGEND)

North St LED INTERNALLY ILLUMINATED STREET NAME SIGNS

PROPOSED EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3 4
MOVEMENT	↘ ↗

EMERGENCY VEHICLE PREEMPTION SEQUENCE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	%OPERATION	
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	12		12	0.10	14.40
PED. SIGNAL	4		25	1.00	100.00
CONTROLLER	1	100		1.00	100.00
ILLUM. SIGN	4		90	0.50	180.00
VIDEO DET.	0		150	1.00	0
LUMINAIRE	0	250		0.50	0
FLASHER				0.50	-
TOTAL =					616.40

ENERGY COSTS TO:
 VILLAGE OF PARK FOREST
 350 VICTORY DRIVE
 PARK FOREST, ILLINOIS 60466
 ENERGY SUPPLY CONTACT: VALERIE MURPHY
 PHONE: (708) 235-2346
 COMPANY: COM ED



DESIGNED - JUF	REVISED -
DRAWN - MAC	REVISED -
CHECKED - TAO	REVISED -
DATE - 10/31/11	FILE - 060670-PH2-ts-cable-3-NORTH.shp

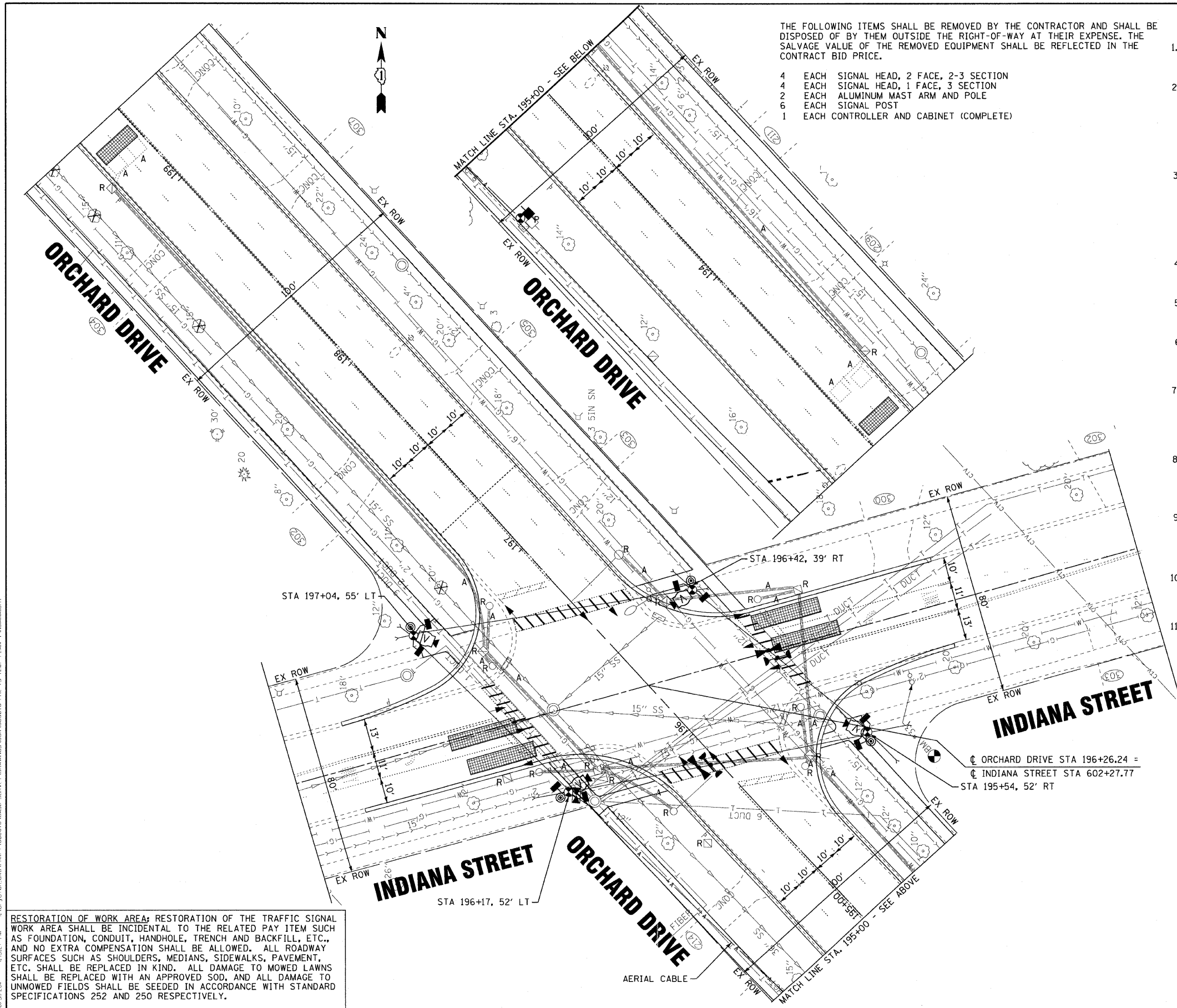
**STATE OF ILLINOIS
 ORCHARD DRIVE IMPROVEMENTS**

**TRAFFIC SIGNAL CABLE PLAN,
 PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES
 ORCHARD DRIVE AND NORTH STREET**

SCALE: NONE STA. TO STA.

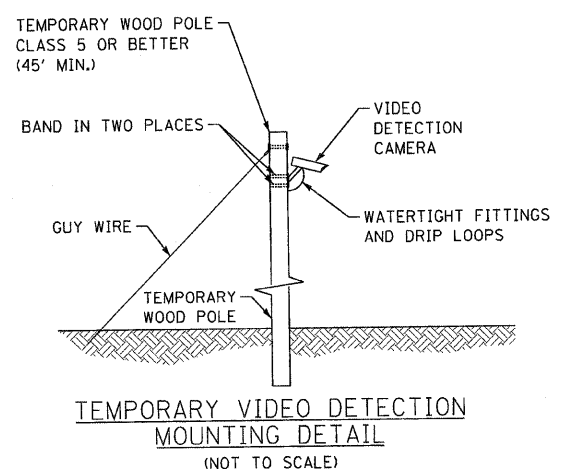
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	124
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635	
			M-80036611	

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 ILLINOIS LICENSE EXPIRES 4/30/2013
 ILLINOIS LICENSE NO. 06-00090-00-FP-124-124



NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED 12". HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) 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.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT ONE AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.
11. ELIMINATE PHASE 1 AND 6 ON CONTROLLER SEQUENCE AND BARRICADE WB TO SB LEFT TURN LANE WHILE DETOUR ROUTE IS IN PLACE.



CONTRACT NO. 2836 BY BAXTER & WOODMAN, INC. PROFESSIONAL ENGINEERS
 LICENSE NO. 084-000211 EXPIRES 4/30/2013
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CHECKED - TAO	REVISED -
DATE - 10/24/11	FILE - 060670-PH2-TS-TEMP-PLAN-INDIANA.sht

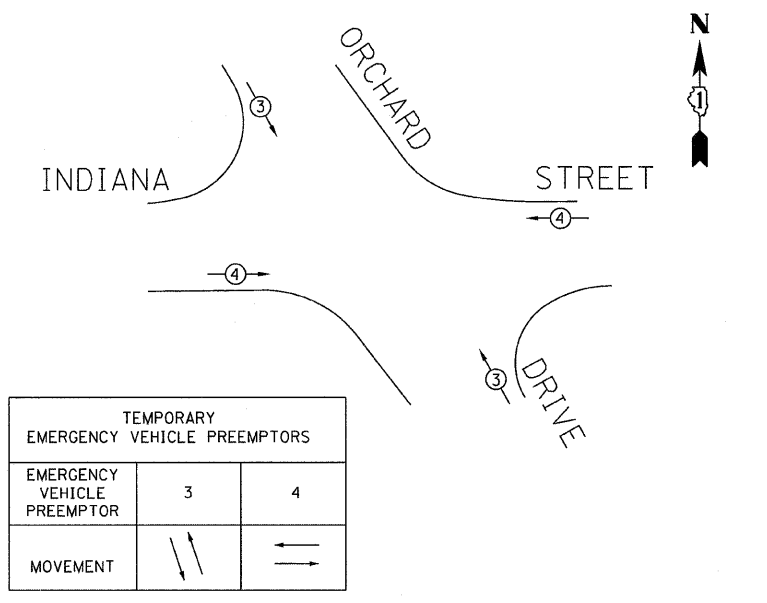
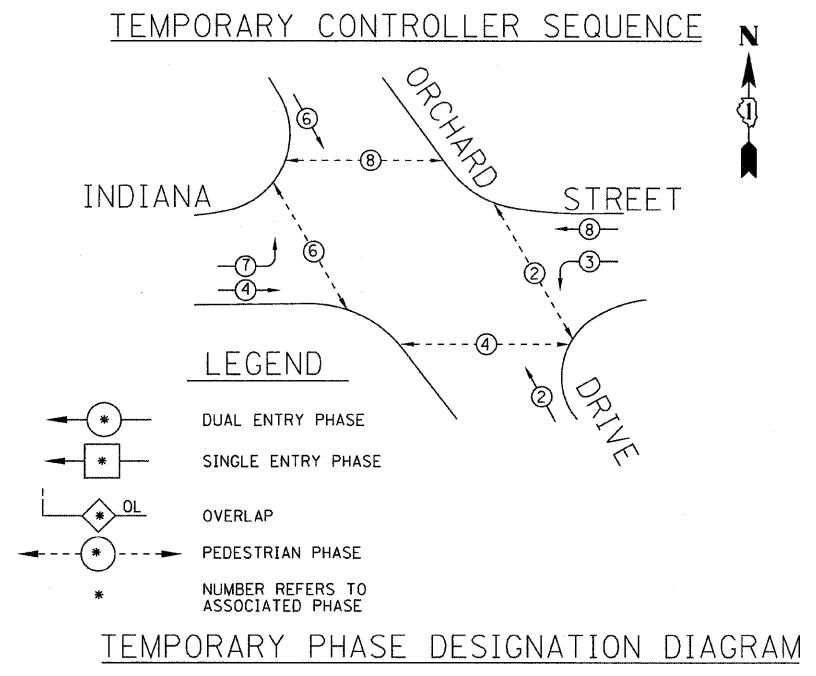
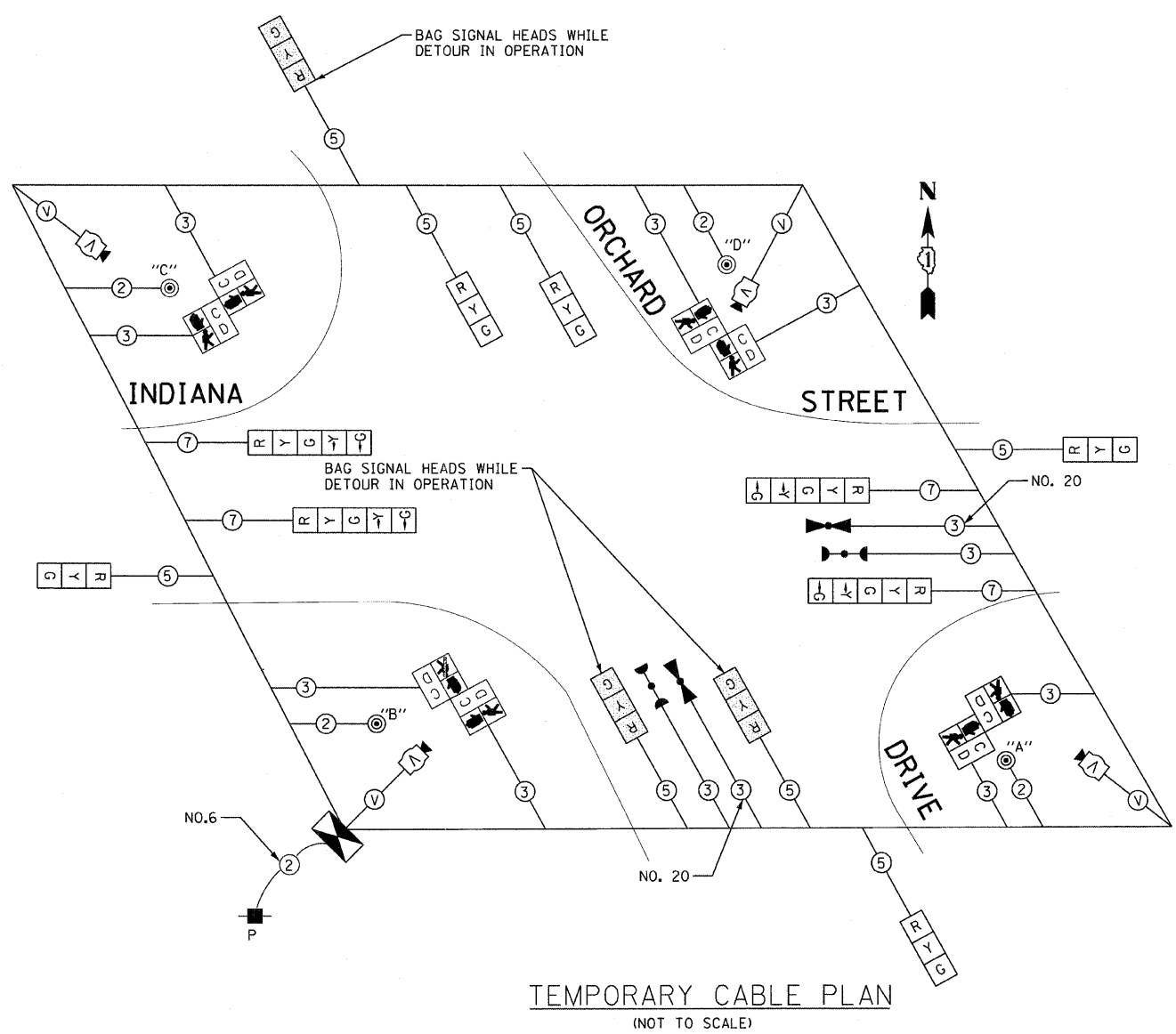
STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS

TEMPORARY TRAFFIC SIGNAL PLAN
AND TRAFFIC SIGNAL REMOVAL PLAN
ORCHARD DRIVE AND INDIANA STREET

SCALE: 1"=20'

STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	125
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635	
			M-80031661	



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

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	%OPERATION	
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	8		12	0.10	9.6
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1	100		1.00	100.00
ILLUM. SIGN	0		90	0.50	0
VIDEO DET.	1		150	1.00	150.00
LUMINAIRE	0	250		0.50	0
FLASHER				0.50	-
TOTAL =					681.60

ENERGY COSTS TO:
 VILLAGE OF PARK FOREST
 350 VICTORY DRIVE
 PARK FOREST, IL 60466
 ENERGY SUPPLY CONTACT: VALERIE MURPHY
 PHONE: (708)235-2346
 COMPANY: COM ED



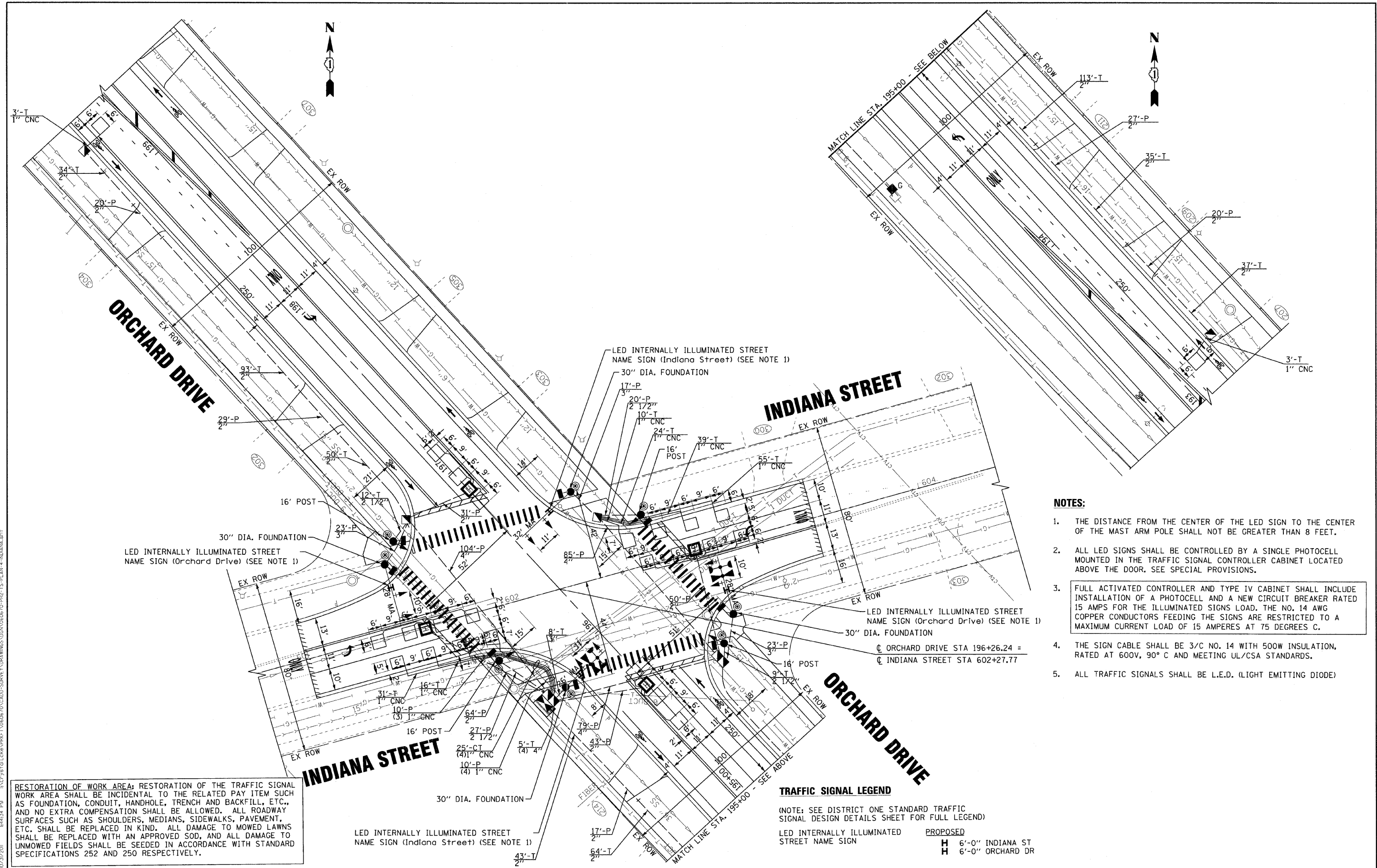
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DATE - 10/24/11	FILE - 060670-PH2-TS-TEMP-CABLE 4.sht

STATE OF ILLINOIS
 ORCHARD DRIVE IMPROVEMENTS

TEMPORARY TRAFFIC SIGNAL CABLE PLAN
 AND PHASE DESIGNATION DIAGRAM
 ORCHARD DR AND INDIANA STREET

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	126
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635	
			M-80031661	

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- NOTES:**
1. THE DISTANCE FROM THE CENTER OF THE LED SIGN TO THE CENTER OF THE MAST ARM POLE SHALL NOT BE GREATER THAN 8 FEET.
 2. ALL LED SIGNS SHALL BE CONTROLLED BY A SINGLE PHOTOCELL MOUNTED IN THE TRAFFIC SIGNAL CONTROLLER CABINET LOCATED ABOVE THE DOOR. SEE SPECIAL PROVISIONS.
 3. FULL ACTIVATED CONTROLLER AND TYPE IV CABINET SHALL INCLUDE INSTALLATION OF A PHOTOCELL AND A NEW CIRCUIT BREAKER RATED 15 AMPS FOR THE ILLUMINATED SIGNS LOAD. THE NO. 14 AWG COPPER CONDUCTORS FEEDING THE SIGNS ARE RESTRICTED TO A MAXIMUM CURRENT LOAD OF 15 AMPERES AT 75 DEGREES C.
 4. THE SIGN CABLE SHALL BE 3/8" NO. 14 WITH 500W INSULATION, RATED AT 600V, 90° C AND MEETING UL/CSA STANDARDS.
 5. ALL TRAFFIC SIGNALS SHALL BE L.E.D. (LIGHT EMITTING DIODE)

RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO 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.

TRAFFIC SIGNAL LEGEND
 (NOTE: SEE DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS SHEET FOR FULL LEGEND)
 LED INTERNALLY ILLUMINATED STREET NAME SIGN
 PROPOSED
 H 6'-0" INDIANA ST
 H 6'-0" ORCHARD DR

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 LICENSE NO. 184-000271 - EXPIRES 4/30/2013
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DATE - 10/24/11	FILE - 060670-PH2-TS-PLAN-4-INDIANA.sht

**STATE OF ILLINOIS
 ORCHARD DRIVE IMPROVEMENTS**

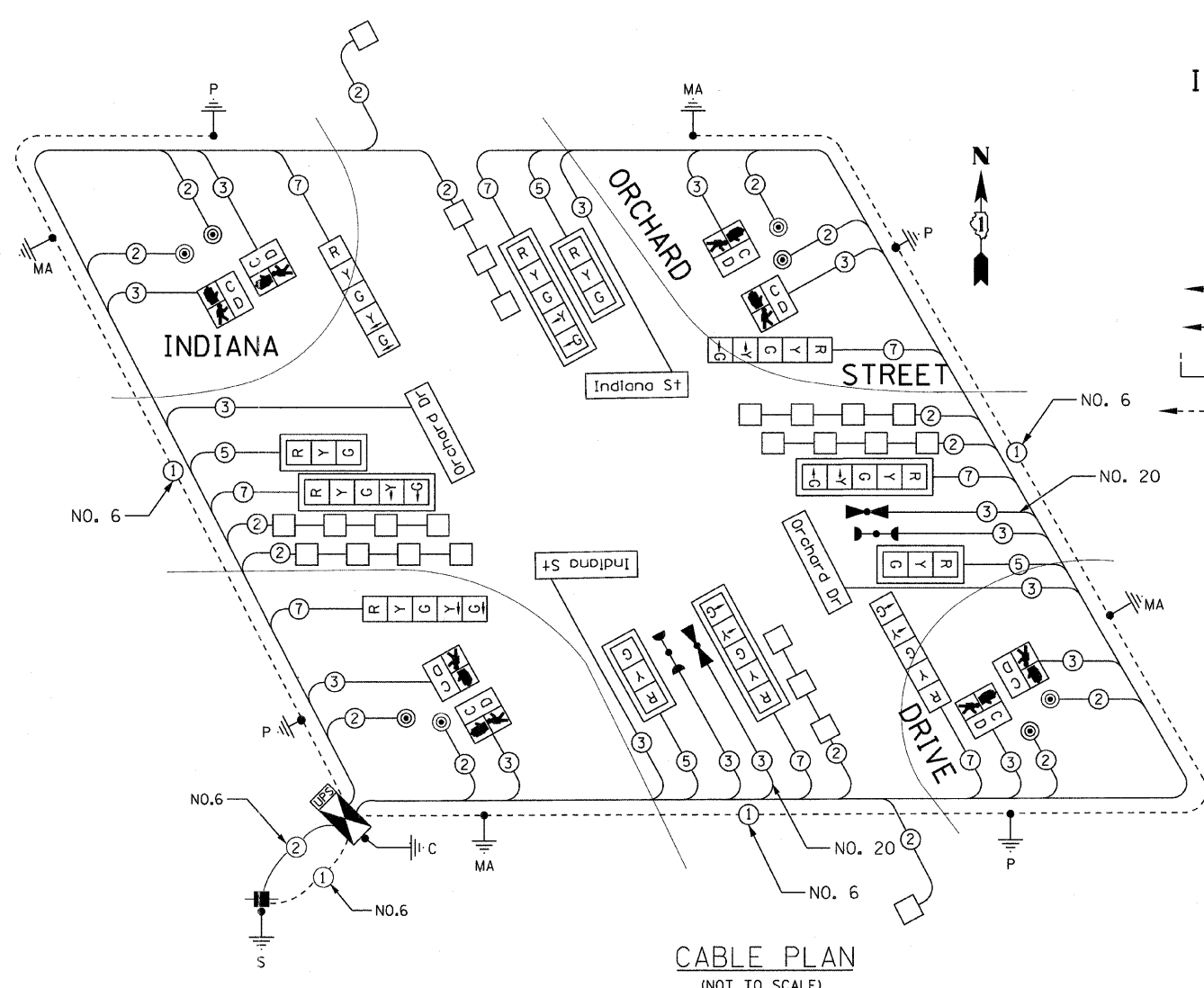
**TRAFFIC SIGNAL MODERNIZATION PLAN
 ORCHARD DRIVE AND INDIANA STREET**

SCALE: 1"=20'
 STA. TO STA.

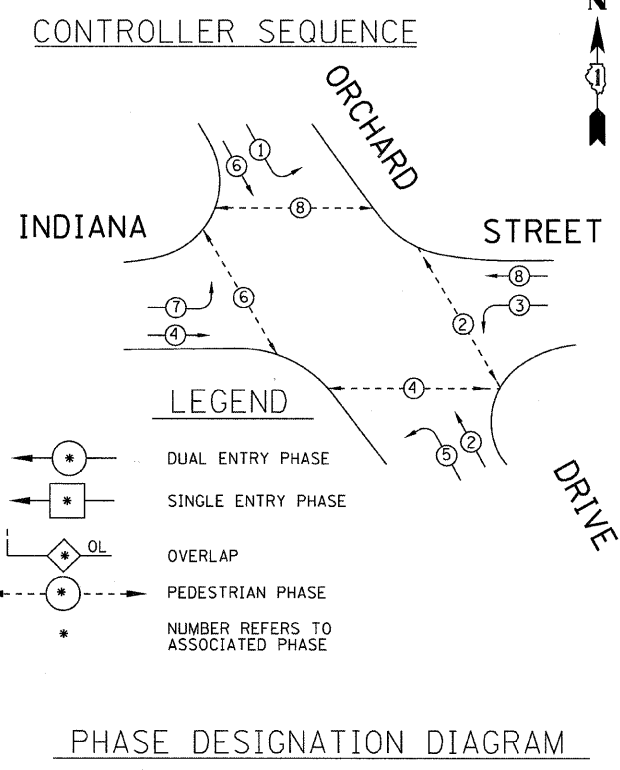
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	127
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635 M-80031661	

SCHEDULE OF QUANTITIES

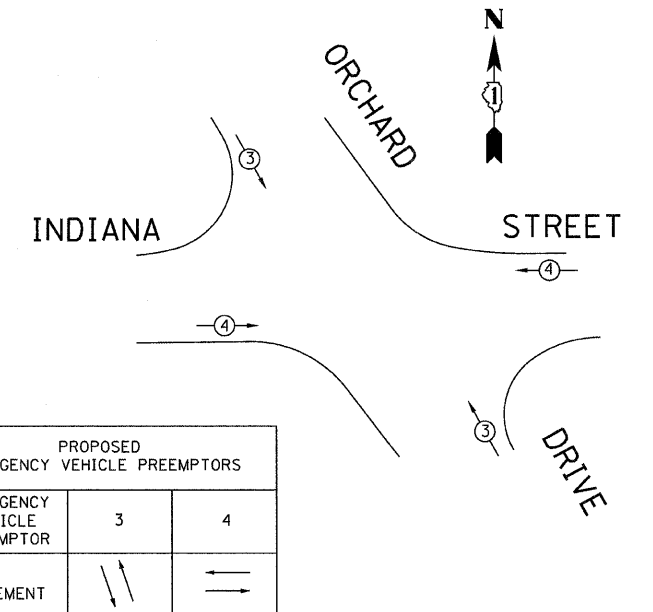
80500010 SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
81028200 UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	770
81028210 UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	68
81028220 UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	71
81028240 UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	284
81400100 HANDHOLE	EACH	4
81400200 HEAVY-DUTY HANDHOLE	EACH	4
81400300 DOUBLE HANDHOLE	EACH	2
85700200 FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
86200300 UNINTERRUPTIBLE POWER SUPPLY, EXTENDED	EACH	1
87301215 ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	1307
87301225 ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	1757
87301245 ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	658
87301255 ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	1275
87301305 ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1370
87301805 ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	151
87301900 ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1 C	FOOT	652
87502500 TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
87700170 STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
87700180 STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	2
87700200 STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
87800100 CONCRETE FOUNDATION, TYPE A	FOOT	16
87800150 CONCRETE FOUNDATION, TYPE C	FOOT	4
87800400 CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	44
88030020 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
88030100 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
88030110 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
88102717 PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
88200210 TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8
88500100 INDUCTIVE LOOP DETECTOR	EACH	8
88600100 DETECTOR LOOP, TYPE I	FOOT	1186
88700200 LIGHT DETECTOR	EACH	2
88700300 LIGHT DETECTOR AMPLIFIER	EACH	1
88800100 PEDESTRIAN PUSH-BUTTON	EACH	8
89000100 TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
89100400 ILLUMINATED SIGN, LED	EACH	4
89502300 REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2645
89502375 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502385 REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
89502380 REMOVE EXISTING HANDHOLE	EACH	8
Z0073510 TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
X8730250 ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	232



CABLE PLAN
(NOT TO SCALE)



PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	%OPERATION	
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	16		12	0.10	19.20
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1	100		1.00	100.00
ILLUM. SIGN	4		90	0.50	180.00
VIDEO DET.	0		150	1.00	0
LUMINAIRE	0	250		0.50	0
FLASHER				0.50	-
TOTAL =					721.20

ENERGY COSTS TO:
VILLAGE OF PARK FOREST
350 VICTORY DRIVE
PARK FOREST, ILLINOIS 60466
ENERGY SUPPLY CONTACT: VALERIE MURPHY
PHONE: (708) 235-2346
COMPANY: COM ED

CABLE PLAN LEGEND
(NOTE: SEE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS SHEET FOR FULL LEGEND)
Indiana St LED INTERNALLY ILLUMINATED STREET NAME SIGNS

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		

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 LICENSE NO. 084-000233 EXPIRES 4/30/2015
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CHECKED - TAO	REVISED -
DATE - 10/31/11	FILE - 060670-PH2-ts-cable-4-INDIANA.sht

**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

**TRAFFIC SIGNAL CABLE PLAN,
PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES
ORCHARD DRIVE AND INDIANA STREET**

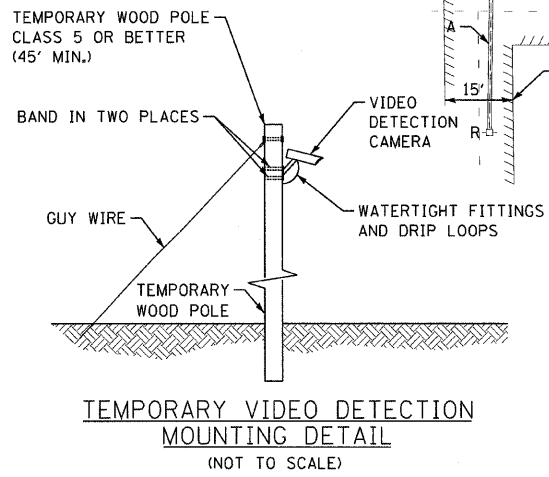
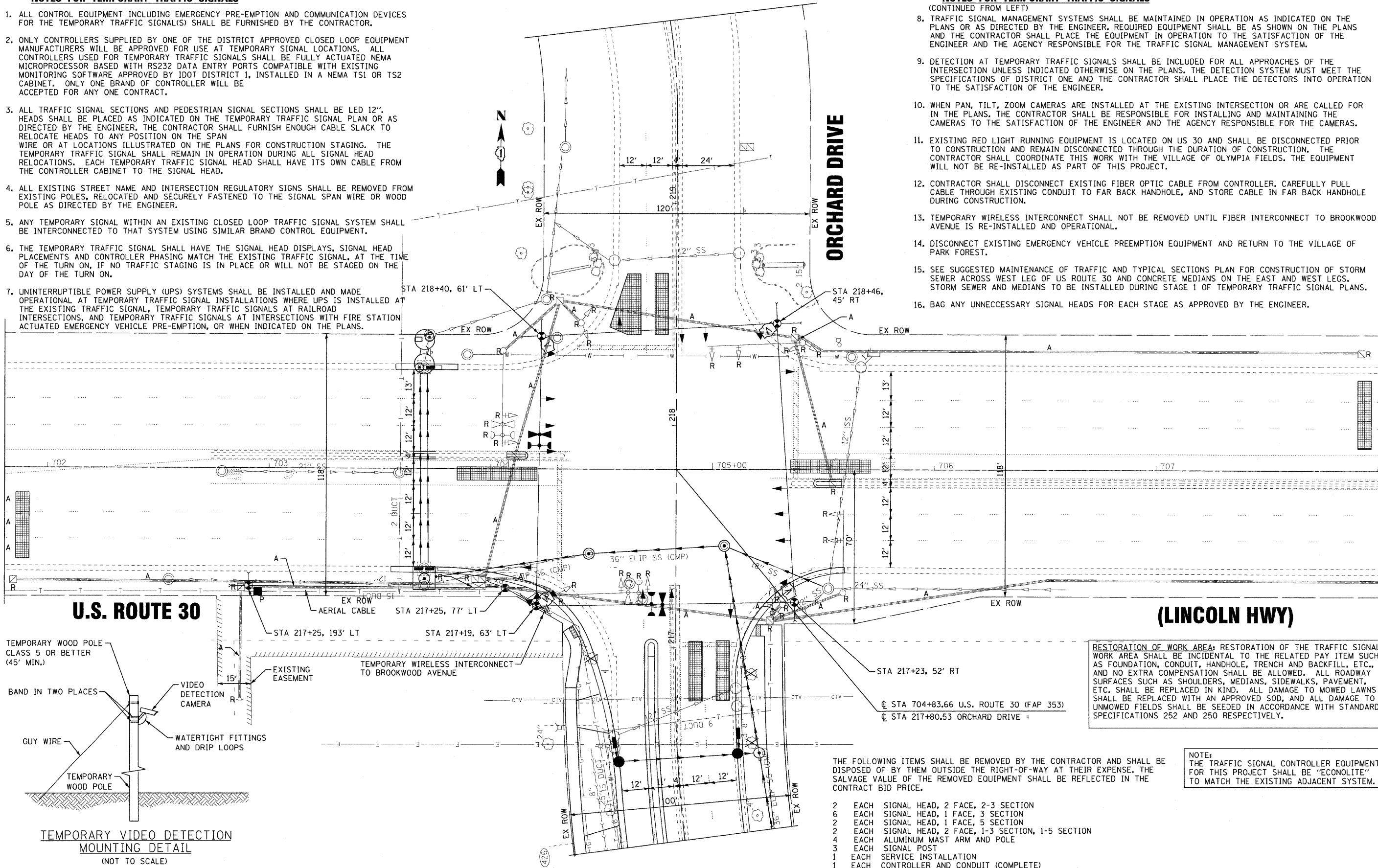
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	128
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635	
			M-80031661	

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED 12". HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) 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.

NOTES FOR TEMPORARY TRAFFIC SIGNALS

- (CONTINUED FROM LEFT)
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
 9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT ONE AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
 10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.
 11. EXISTING RED LIGHT RUNNING EQUIPMENT IS LOCATED ON US 30 AND SHALL BE DISCONNECTED PRIOR TO CONSTRUCTION AND REMAIN DISCONNECTED THROUGH THE DURATION OF CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE VILLAGE OF OLYMPIA FIELDS. THE EQUIPMENT WILL NOT BE RE-INSTALLED AS PART OF THIS PROJECT.
 12. CONTRACTOR SHALL DISCONNECT EXISTING FIBER OPTIC CABLE FROM CONTROLLER. CAREFULLY PULL CABLE THROUGH EXISTING CONDUIT TO FAR BACK HANDHOLE, AND STORE CABLE IN FAR BACK HANDHOLE DURING CONSTRUCTION.
 13. TEMPORARY WIRELESS INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECT TO BROOKWOOD AVENUE IS RE-INSTALLED AND OPERATIONAL.
 14. DISCONNECT EXISTING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AND RETURN TO THE VILLAGE OF PARK FOREST.
 15. SEE SUGGESTED MAINTENANCE OF TRAFFIC AND TYPICAL SECTIONS PLAN FOR CONSTRUCTION OF STORM SEWER ACROSS WEST LEG OF US ROUTE 30 AND CONCRETE MEDIANS ON THE EAST AND WEST LEGS. STORM SEWER AND MEDIANS TO BE INSTALLED DURING STAGE 1 OF TEMPORARY TRAFFIC SIGNAL PLANS.
 16. BAG ANY UNNECESSARY SIGNAL HEADS FOR EACH STAGE AS APPROVED BY THE ENGINEER.



RESTORATION OF WORK AREA; RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO 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.

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

- 2 EACH SIGNAL HEAD, 2 FACE, 2-3 SECTION
- 6 EACH SIGNAL HEAD, 1 FACE, 3 SECTION
- 2 EACH SIGNAL HEAD, 1 FACE, 5 SECTION
- 2 EACH SIGNAL HEAD, 2 FACE, 1-3 SECTION, 1-5 SECTION
- 4 EACH ALUMINUM MAST ARM AND POLE
- 3 EACH SIGNAL POST
- 1 EACH SERVICE INSTALLATION
- 1 EACH CONTROLLER AND CONDUIT (COMPLETE)

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



DESIGNED - JJF	REVISED -
DRAWN - MAC	REVISED -
CHECKED - TAO	REVISED -
DATE - 10/24/11	FILE - 060670-PH2-TS-TEMP-PLAN-5-RTE30.sht

**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

**TEMPORARY TRAFFIC SIGNAL PLAN
AND TRAFFIC SIGNAL REMOVAL PLAN - STAGE 1
U.S. ROUTE 30 (LINCOLN HWY) AND ORCHARD DRIVE**

SCALE: 1"=20' STA. TO STA.


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	129
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT	M-80031661

PREPARED BY: JAVIER S. WOODMAN, INC.
 STATE LICENSE NO. 060670-000000-000000
 LICENSE NO. 060670-000000-000000
 EXPIRES 7/30/2013
 10/23/2011 14:53:10

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 ILL. LICENSE NO. 184-00021 - EXPIRES 4/30/2013
 ILL. REG. NO. 10/2/2011 - 11/5/2011

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	
SIGNAL (RED)	14		17	0.50	119
(YELLOW)	14		25	0.25	87.5
(GREEN)	14		15	0.25	52.5
ARROW	16		12	0.10	19.20
PED. SIGNAL	0		25	1.00	0
CONTROLLER	1	100		1.00	100.00
ILLUM. SIGN	0		90	0.50	0
VIDEO DET.	1		150	1.00	150.00
LUMINAIRE	0	250		0.50	0
FLASHER				0.50	-
ENERGY COSTS TO:				TOTAL =	528.20
ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096					
ENERGY SUPPLY CONTACT:		VALERIE MURPHY			
PHONE:		(708)235-2346			
COMPANY:		COM ED			

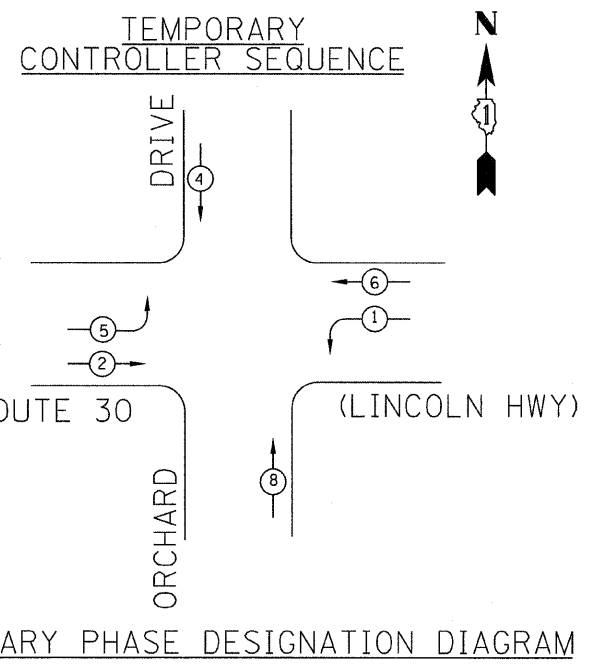
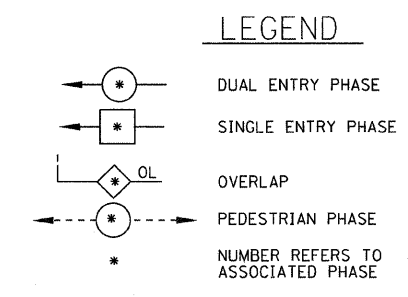
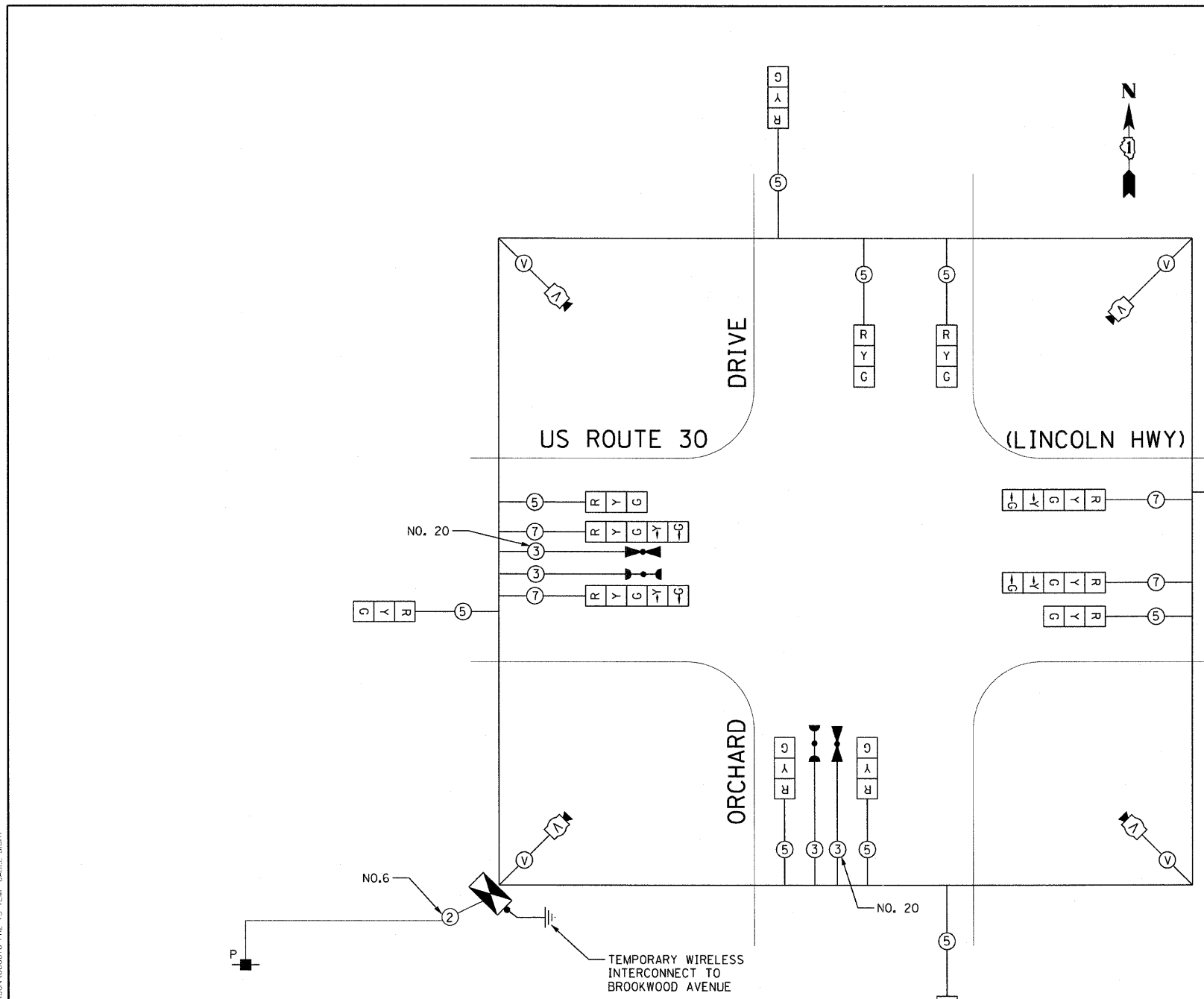
THE SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

	DESIGNED - JJF	REVISED -
	DRAWN - CJC	REVISED -
	CHECKED - JJF	REVISED -
	DATE - 10/24/11	FILE - 060670-PH2-TS-TEMP-CABLE-5.sht

**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

**TEMPORARY TRAFFIC SIGNAL CABLE PLAN
AND PHASE DESIGNATION DIAGRAM - STAGE 1
US ROUTE 30 (LINCOLN HWY) AND ORCHARD DR**

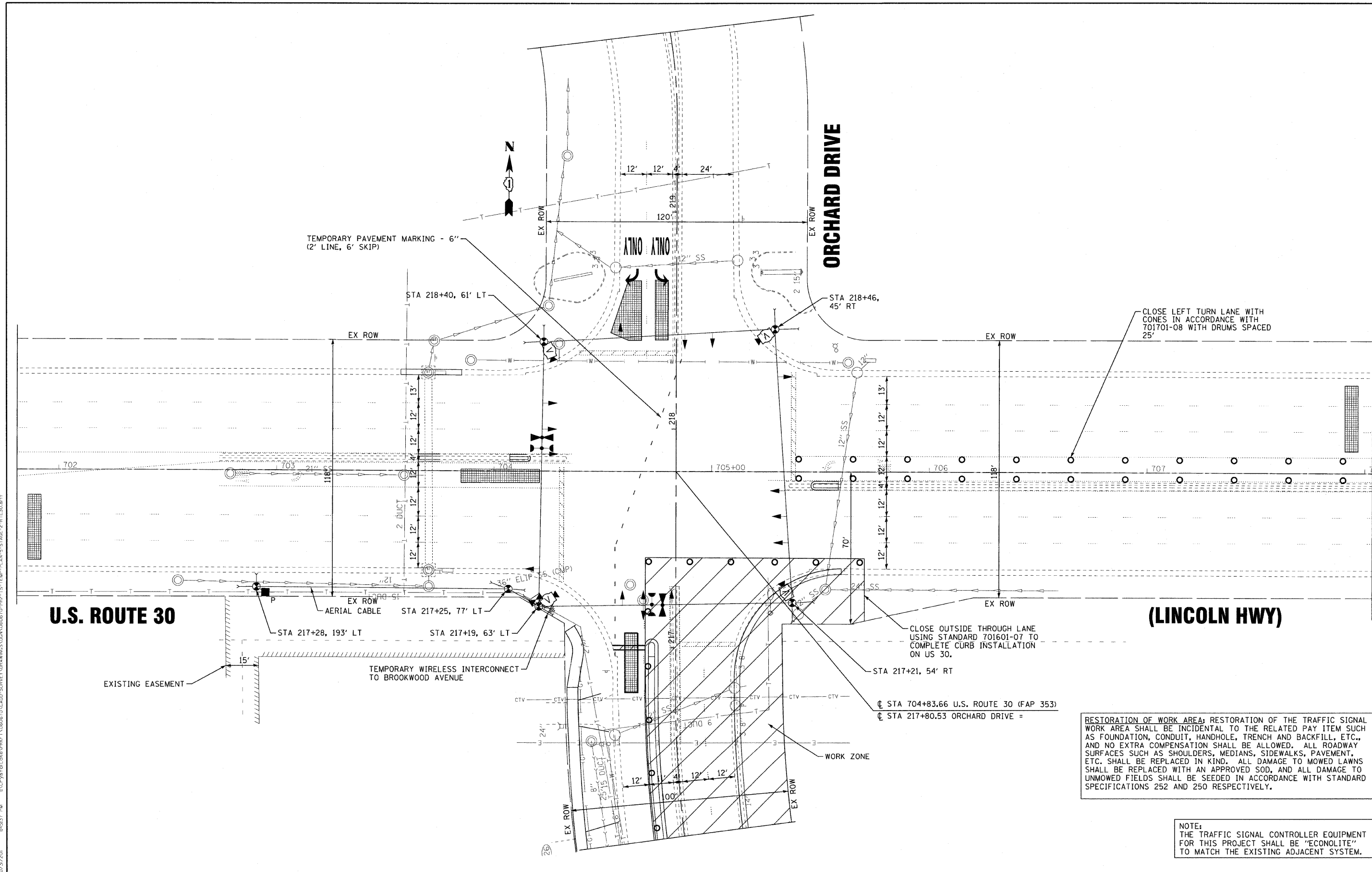
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	130
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635	
SCALE: NONE			M-80031661	



TEMPORARY EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↑ ↓	← →

**TEMPORARY EMERGENCY
VEHICLE PREEMPTION SEQUENCE**



RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO 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.

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

CONTRACT NO. 2011 BY BAXTER S. WOODMAN INC. ...
 STA 217+00 TO STA 218+50 ...
 LICENSE NO. 84-00021 - EXPIRES 4/30/2013
 10/27/2011 14:53:37 PM



DESIGNED - JJF	REVISED -
DRAWN - MAC	REVISED -
CHECKED - TAO	REVISED -
DATE - 10/24/11	FILE - 060670-PH2-TS-TEMP-PLAN-S-STAGE-2-RTE30.sht

**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2
U.S. ROUTE 30 (LINCOLN HWY) AND ORCHARD DRIVE**

SCALE: 1"=20' STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	131
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635 M-80031661	

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 STATE PROFESSIONAL ENGINEERING LICENSE NO. 184-000211 - EXPIRES 4/30/2023
 283pnc 02/21/2011 14:50:03 PM I:\C:\p81\0606\PH2-TS-TEMP-CABLE-5A.rvt

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		%OPERATION	
		INCAND.	LED		
SIGNAL (RED)	15		17	0.50	127.50
(YELLOW)	15		25	0.25	93.75
(GREEN)	15		15	0.25	56.25
ARROW	8		12	0.10	9.60
PED. SIGNAL	0		25	1.00	0
CONTROLLER	1	100		1.00	100.00
ILLUM. SIGN	0		90	0.50	0
VIDEO DET.	1		150	1.00	150.00
LUMINAIRE	0		250	0.50	0
FLASHER				0.50	-
TOTAL =					537.10

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 WEST CENTER COURT
 SCHAUMBURG, IL 60196-1096
 ENERGY SUPPLY CONTACT: VALERIE MURPHY
 PHONE: (708)235-2346
 COMPANY: COM ED

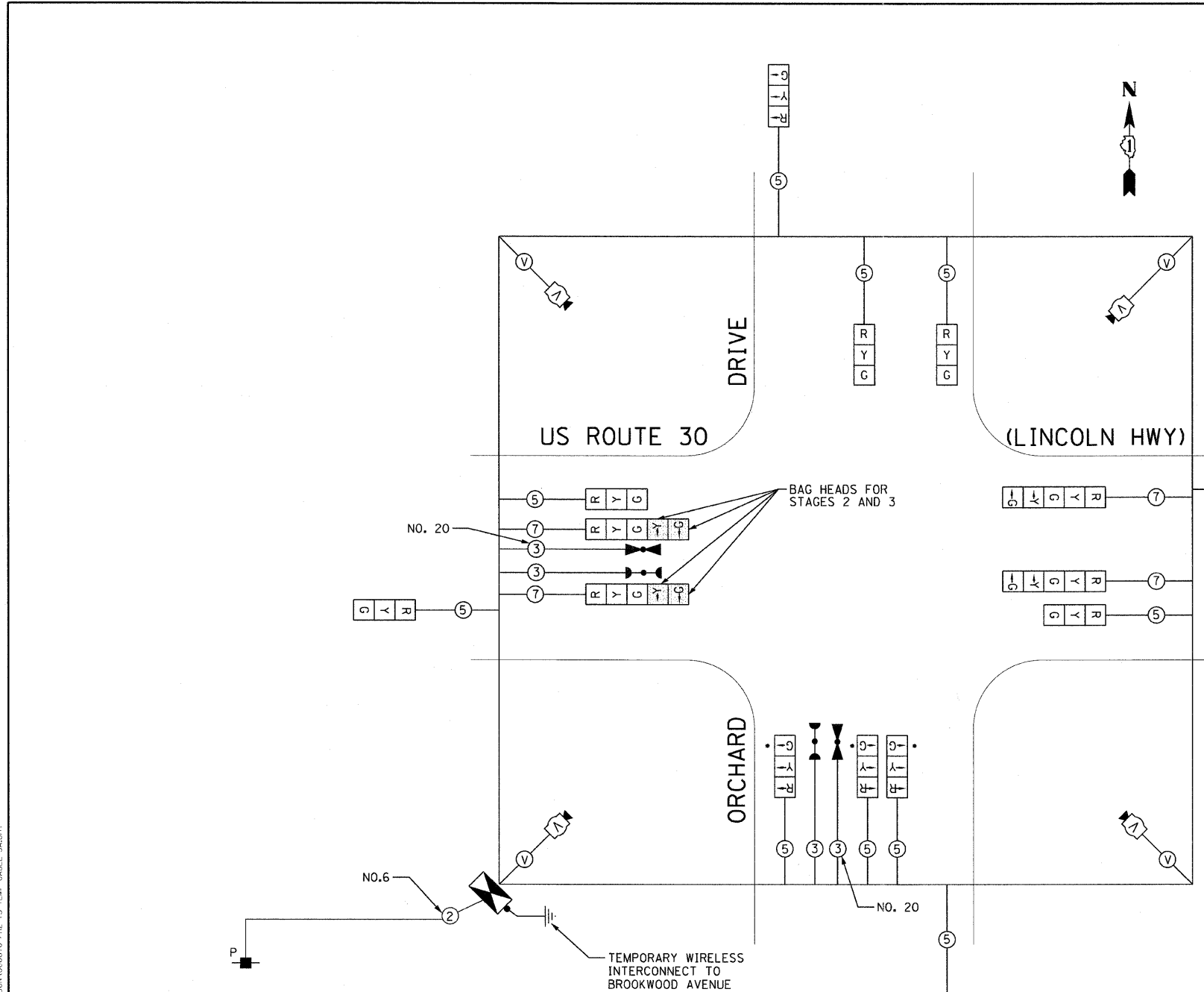
THE SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

DESIGNED - JJF	REVISED -
DRAWN - CJC	REVISED -
CHECKED - JJF	REVISED -
DATE - 10/24/11	FILE - 060670-PH2-TS-TEMP-CABLE-5A.rvt

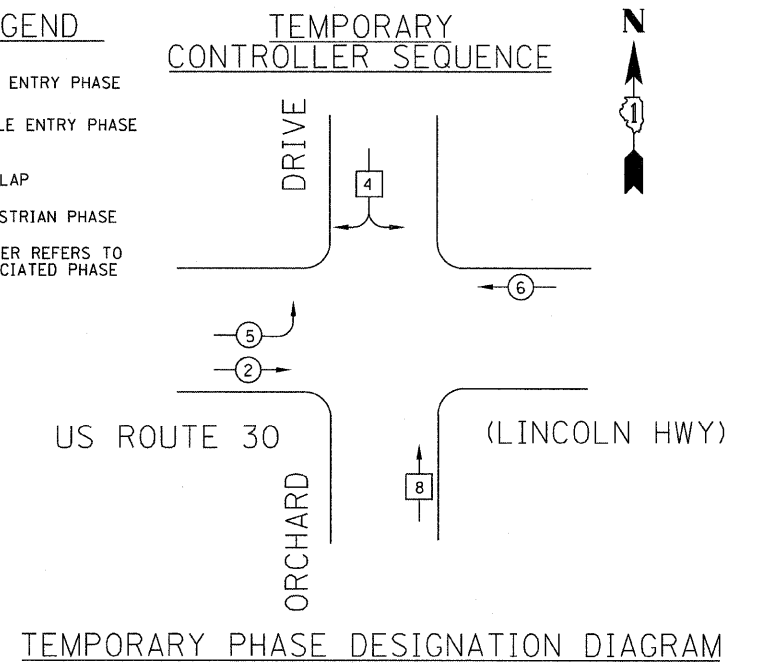
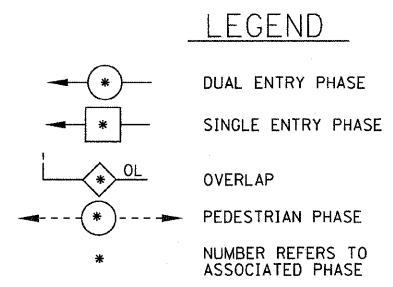
**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

**TEMPORARY TRAFFIC SIGNAL CABLE PLAN
AND PHASE DESIGNATION DIAGRAM - STAGE 2
US ROUTE 30 (LINCOLN HWY) AND ORCHARD DR**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	132
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635	
			M-80031661	



NOTE SIGNAL HEAD CHANGE FROM STAGE 1

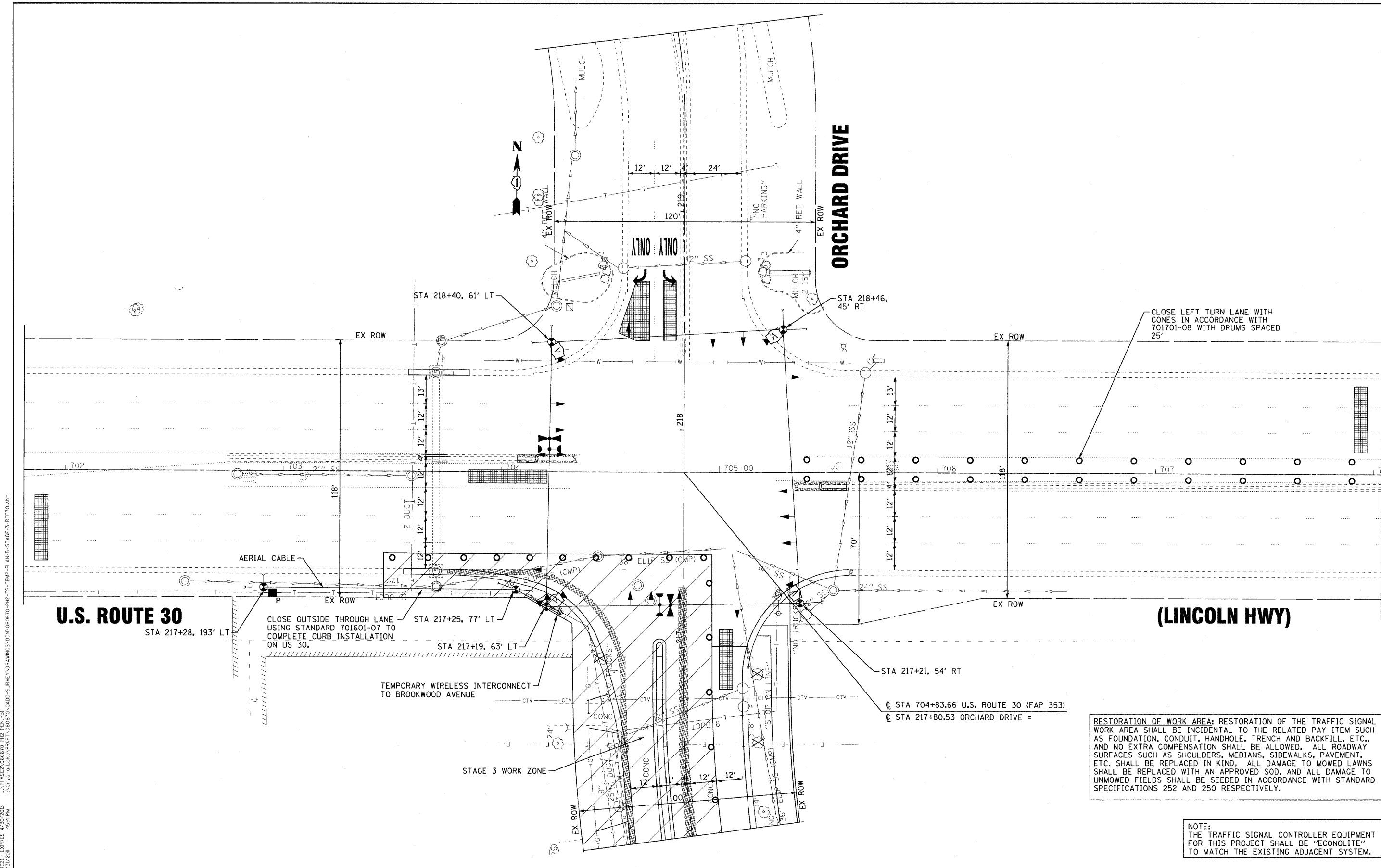


TEMPORARY EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	↑	↘	→

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROJECT NO. 060670-PH2-TS-TEMP-PLAN-3-STAGE-3-RTE30.sht
 DATE: 10/24/11
 DRAWN: JJJ
 CHECKED: TAO
 DESIGNED: JJJ
 REVISIONS:
 1. DATE: 10/24/11
 BY: JJJ
 DESCRIPTION:



U.S. ROUTE 30
 STA 217+28, 193' LT

ORCHARD DRIVE

(LINCOLN HWY)

CLOSE OUTSIDE THROUGH LANE
 USING STANDARD 701601-07 TO
 COMPLETE CURB INSTALLATION
 ON US 30.

CLOSE LEFT TURN LANE WITH
 CONES IN ACCORDANCE WITH
 701701-08 WITH DRUMS SPACED
 25'

RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO 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.

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



DESIGNED - JJJ	REVISIONS
DRAWN - MAC	1. DATE: 10/24/11
CHECKED - TAO	BY: JJJ
DATE - 10/24/11	DESCRIPTION:

**STATE OF ILLINOIS
 ORCHARD DRIVE IMPROVEMENTS**


**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3
 U.S. ROUTE 30 (LINCOLN HWY) AND ORCHARD DRIVE**
 SCALE: 1"=20'
 STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	133
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635 M-80031661J	

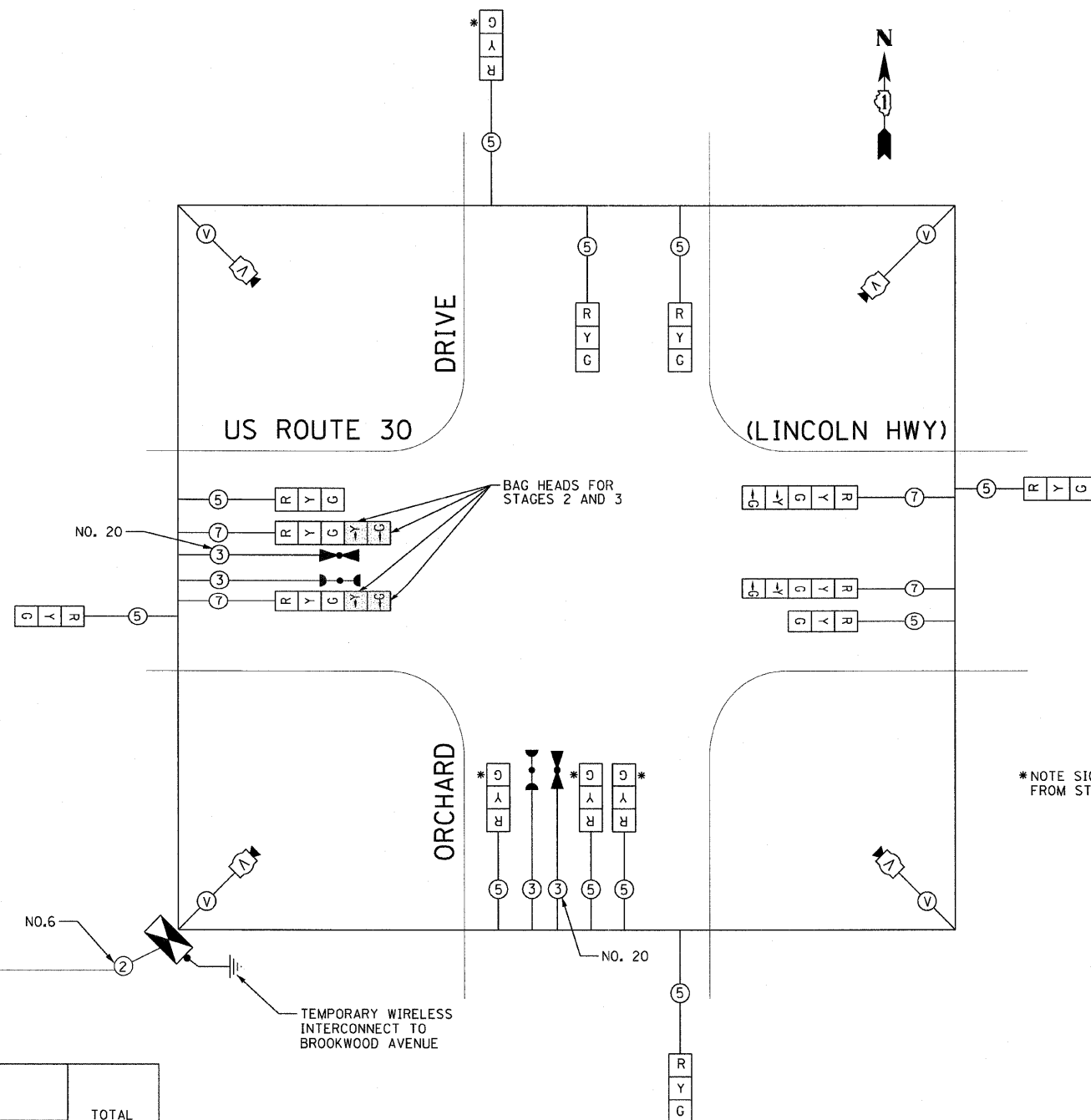
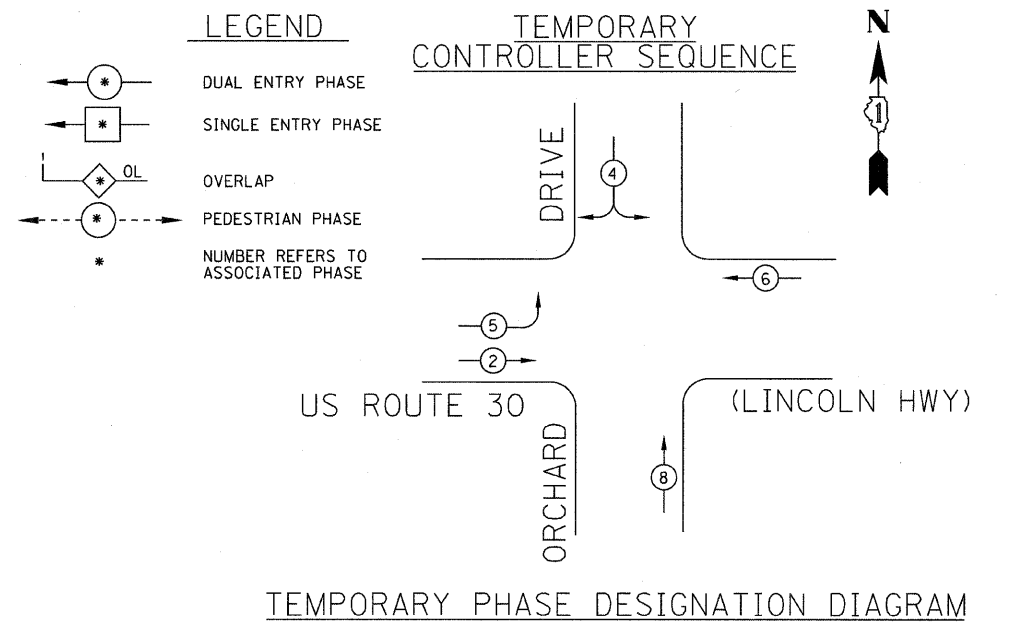
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 STATE LICENSE NO. 060670-PH2-TS-TEMP-CABLE-5B.SHT
 LICENSE NO. 060670-PH2-TS-TEMP-CABLE-5B.SHT
 LICENSE EXPIRES 4/30/2013
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 2. THIS DRAWING IS THE PROPERTY OF BAXTER WOODMAN, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF BAXTER WOODMAN, INC.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	%OPERATION	
SIGNAL (RED)	15		17	0.50	127.5
(YELLOW)	15		25	0.25	93.75
(GREEN)	15		15	0.25	56.25
ARROW	8		12	0.10	9.6
PED. SIGNAL	0		25	1.00	0
CONTROLLER	1	100		1.00	100.00
ILLUM. SIGN	0		90	0.50	0
VIDEO DET.	1		150	1.00	150.00
LUMINAIRE	0	250		0.50	0
FLASHER				0.50	-
ENERGY COSTS TO:				TOTAL =	537.10
ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096					
ENERGY SUPPLY CONTACT: VALERIE MURPHY					
PHONE: (708)235-2346					
COMPANY: COM ED					

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

	DESIGNED - JJF	REVISED -
	DRAWN - CJC	REVISED -
	CHECKED - JJF	REVISED -
	DATE - 10/24/11	FILE - 060670-PH2-TS-TEMP-CABLE-5B.sht

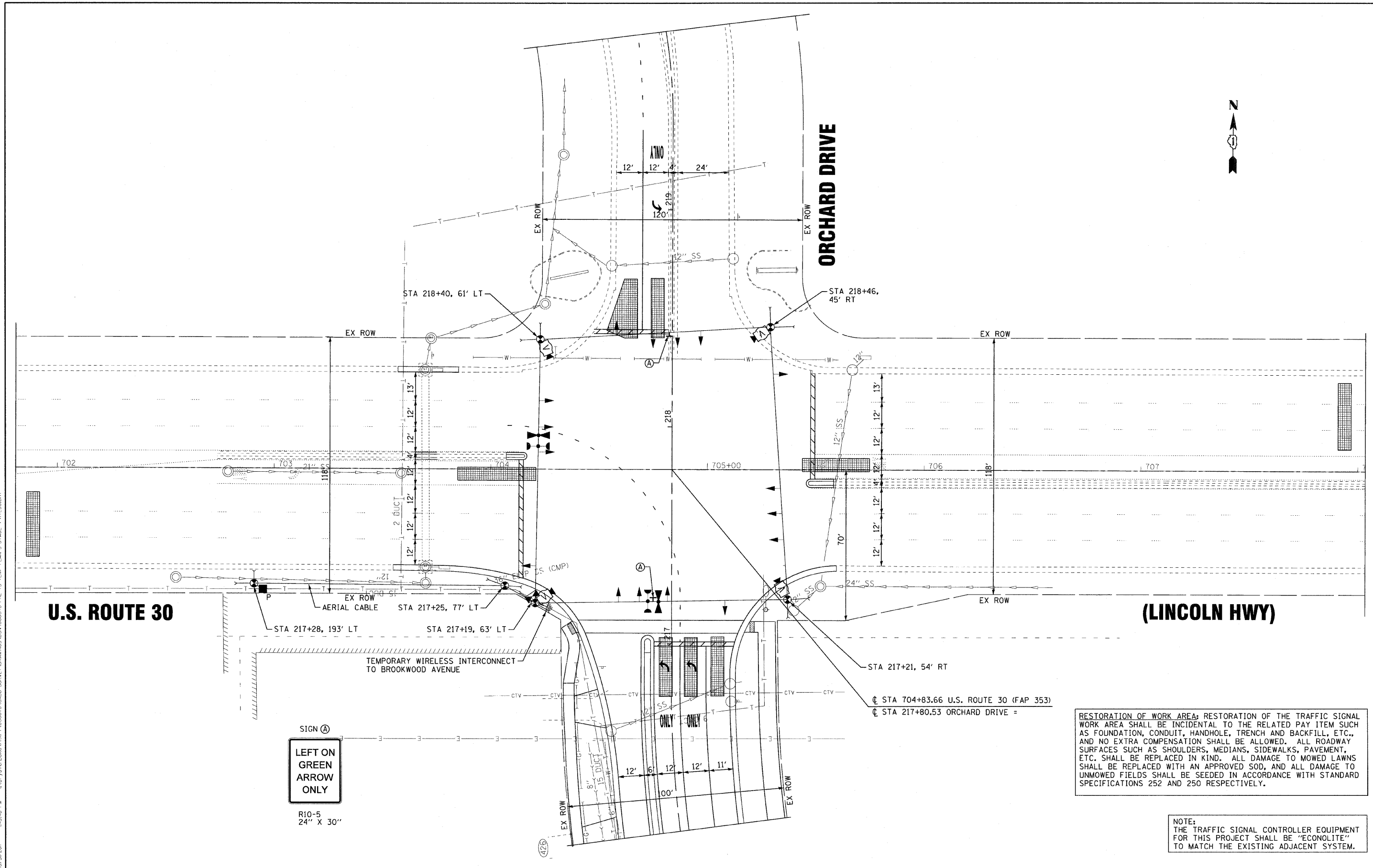
**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**



TEMPORARY EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	↑	↘	→

**TEMPORARY EMERGENCY
VEHICLE PREEMPTION SEQUENCE**

TEMPORARY TRAFFIC SIGNAL CABLE PLAN AND PHASE DESIGNATION DIAGRAM - STAGE 3 US ROUTE 30 (LINCOLN HWY) AND ORCHARD DR		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE		2836	06-00090-00-FP	COOK	200	134
STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT	N-80031661	



RESTORATION OF WORK AREA; RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO 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.

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

SIGN (A)
LEFT ON GREEN ARROW ONLY

R10-5
24" X 30"

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DESIGNED - JJF	REVISED -
DRAWN - MAC	REVISED -
CHECKED - TAO	REVISED -
DATE - 10/24/11	FILE - 060670-PH2-TS-TEMP-PLAN-5-STAGE-4-RTE30.shp

**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4
U.S. ROUTE 30 (LINCOLN HWY) AND ORCHARD DRIVE**

SCALE: 1"=20'
STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	135
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635	
			M-6003(66)	

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 LICENSE NO. - 06-00090-00-FP
 PROJECT NO. - 06-00090-00-FP
 DRAWING NO. - 060670-PH2-TS-TEMP-CABLE-5-STAGE-4.DPT

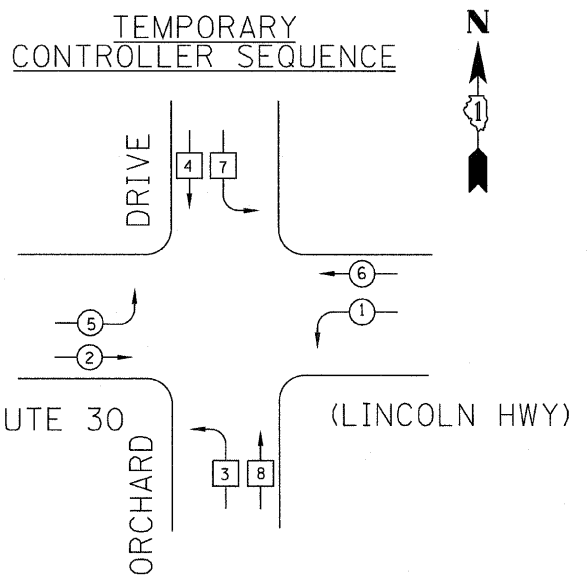
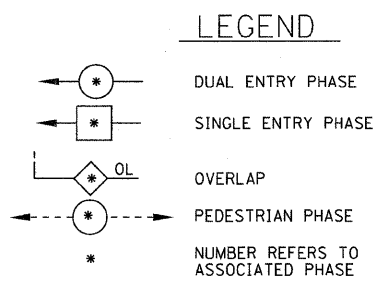
I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	%OPERATION	
SIGNAL (RED)	16		17	0.50	136.00
(YELLOW)	16		25	0.25	100.00
(GREEN)	16		15	0.25	60.00
ARROW	8		12	0.10	9.60
PED. SIGNAL	0		25	1.00	0
CONTROLLER	1	100		1.00	100.00
ILLUM. SIGN	0		90	0.50	0
VIDEO DET.	1		150	1.00	150.00
LUMINAIRE	0	250		0.50	0
FLASHER				0.50	-
TOTAL =					555.60

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 WEST CENTER COURT
 SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY CONTACT: VALERIE MURPHY
 PHONE: (708)235-2346
 COMPANY: COM ED

TEMPORARY CABLE PLAN
(NOT TO SCALE)

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

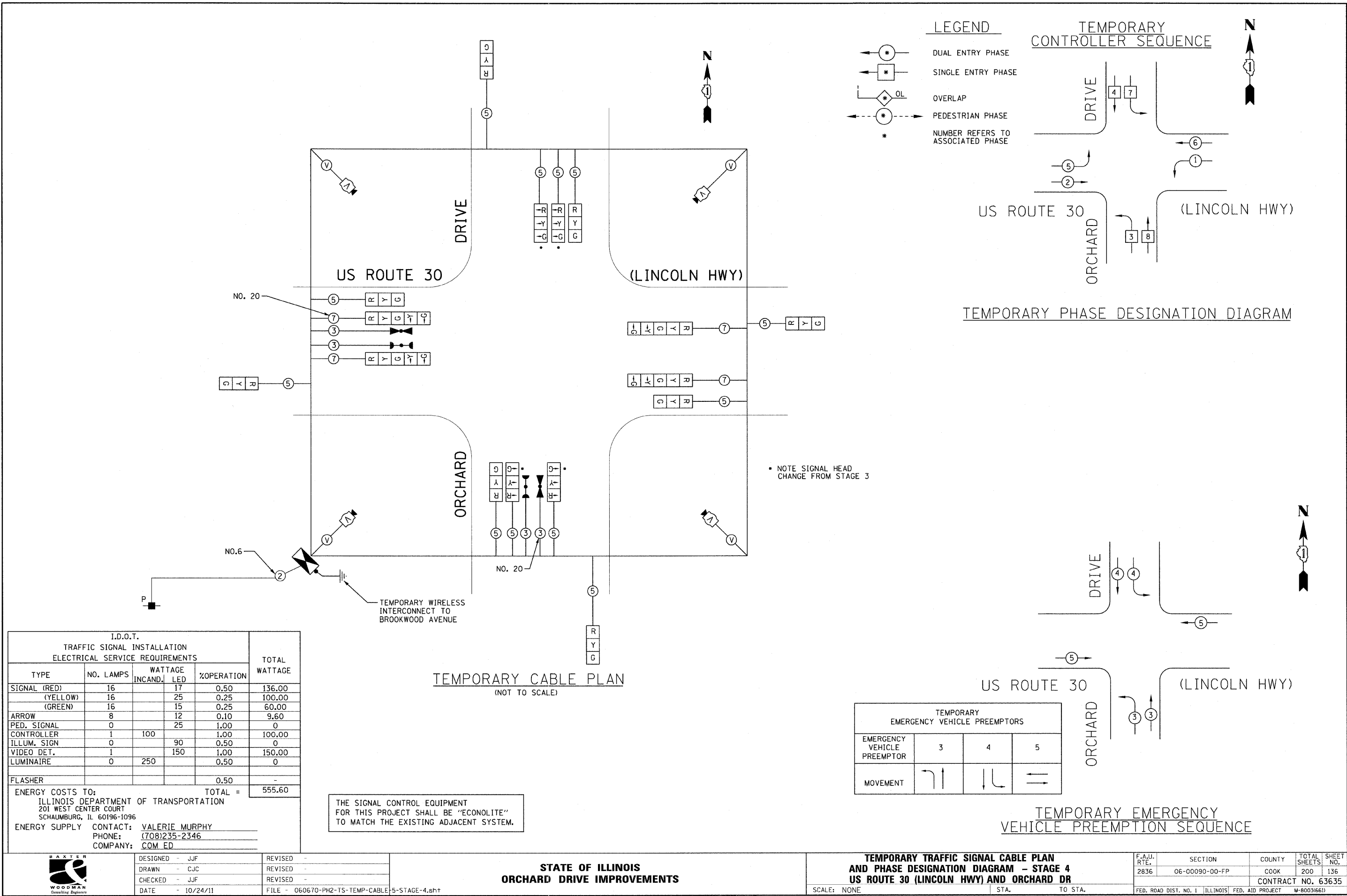


TEMPORARY PHASE DESIGNATION DIAGRAM

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE

TEMPORARY EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	↖ ↗	↘ ↙	↔

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



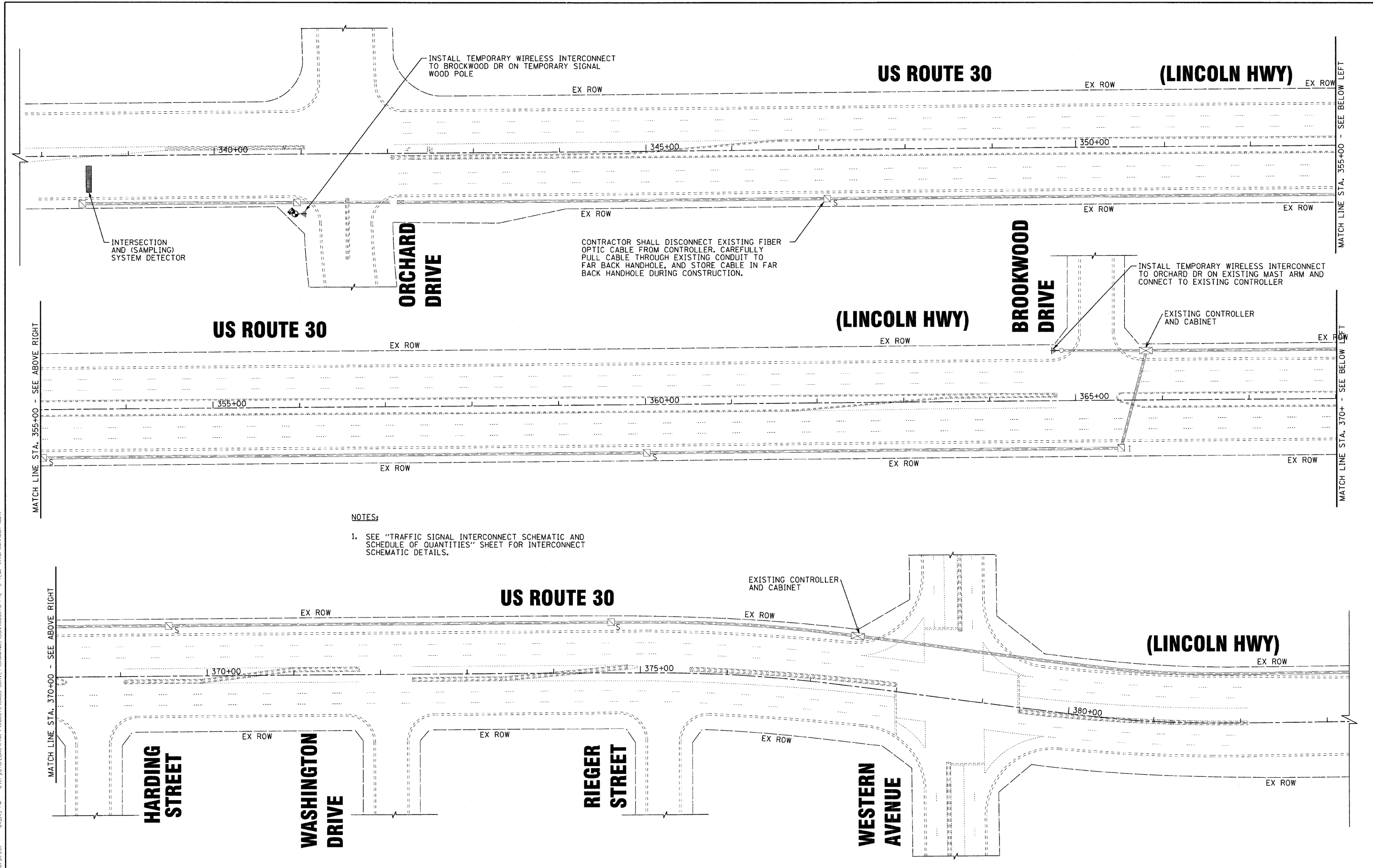
**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

**TEMPORARY TRAFFIC SIGNAL CABLE PLAN
AND PHASE DESIGNATION DIAGRAM - STAGE 4
US ROUTE 30 (LINCOLN HWY) AND ORCHARD DR**

DESIGNED - JJF	REVISED -
DRAWN - CJC	REVISED -
CHECKED - JJF	REVISED -
DATE - 10/24/11	FILE - 060670-PH2-TS-TEMP-CABLE-5-STAGE-4.shd

F.A.J. RTE. 2836	SECTION 06-00090-00-FP	COUNTY COOK	TOTAL SHEETS 200	SHEET NO. 136
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635	





- NOTES:**
- SEE "TRAFFIC SIGNAL INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES" SHEET FOR INTERCONNECT SCHEMATIC DETAILS.

PROJECT # 2015 BY BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS PROFESSIONAL ENGINEERING LICENSE NO. 184-00121 - EXPIRES 4/30/2013
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DESIGNED - JJF	REVISED -
DRAWN - MAC	REVISED -
CHECKED - JJF	REVISED -
DATE - 10/24/11	FILE - 060670-PH2-TS-TEMP-Interconnect-1.sht

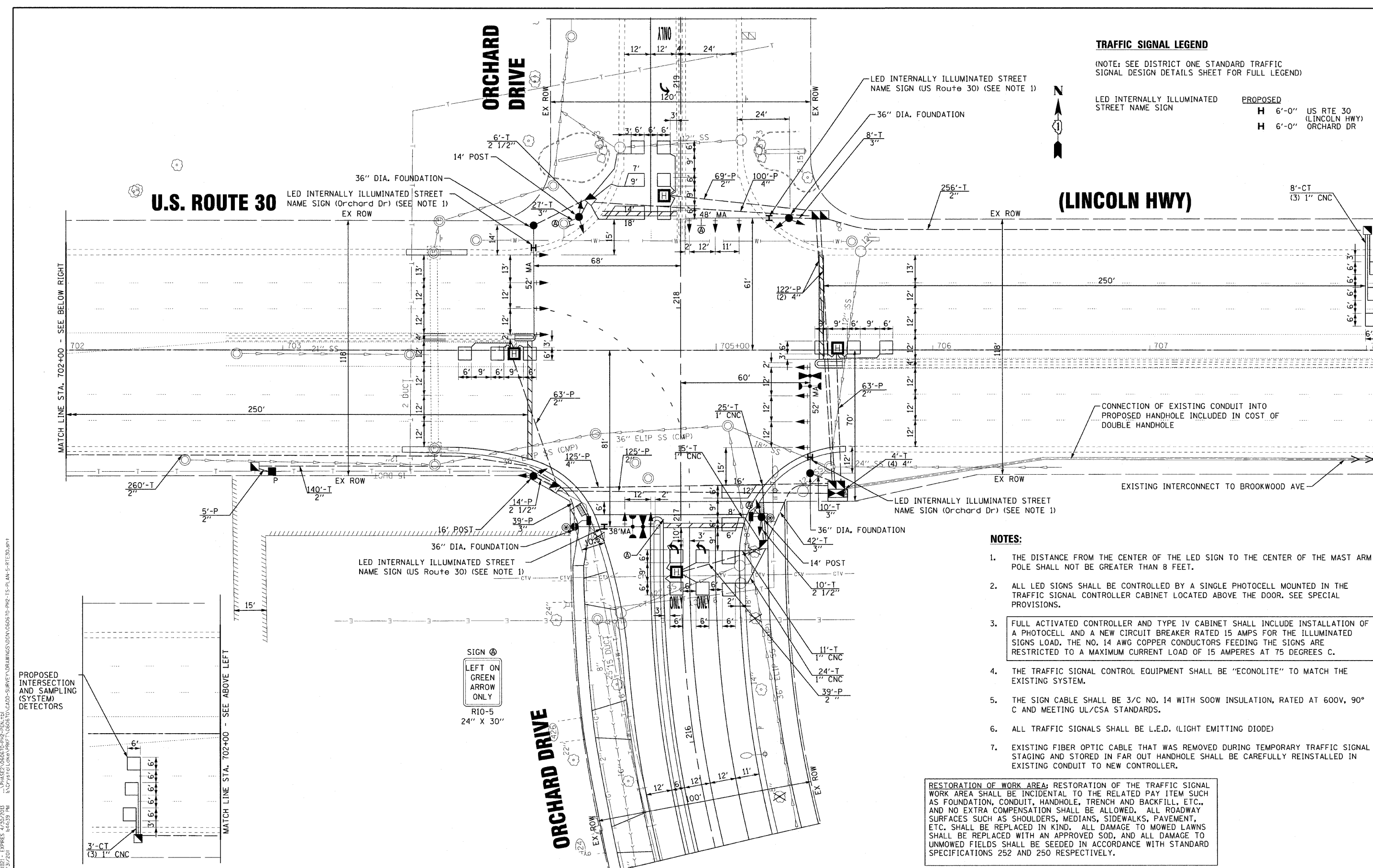
**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

**TEMPORARY TRAFFIC SIGNAL INTERCONNECT PLAN
US ROUTE 30 (LINCOLN HWY) AND ORCHARD DR**

SCALE: 1" = 50'
STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	137
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635 M-800316611	

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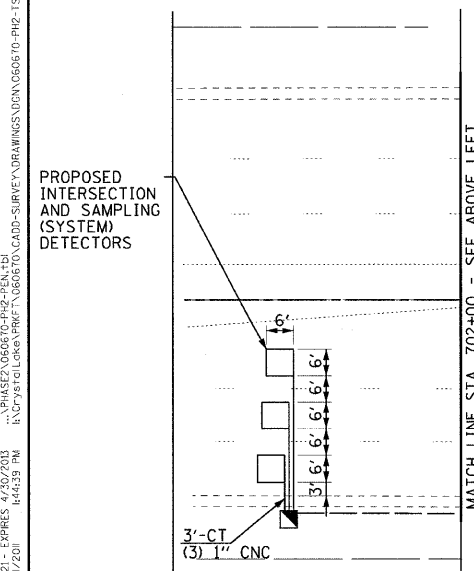
TRAFFIC SIGNAL LEGEND

(NOTE: SEE DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS SHEET FOR FULL LEGEND)

LED INTERNALLY ILLUMINATED STREET NAME SIGN	PROPOSED
H 6'-0"	US RTE 30 (LINCOLN HWY)
H 6'-0"	ORCHARD DR

- NOTES:**
- THE DISTANCE FROM THE CENTER OF THE LED SIGN TO THE CENTER OF THE MAST ARM POLE SHALL NOT BE GREATER THAN 8 FEET.
 - ALL LED SIGNS SHALL BE CONTROLLED BY A SINGLE PHOTOCELL MOUNTED IN THE TRAFFIC SIGNAL CONTROLLER CABINET LOCATED ABOVE THE DOOR. SEE SPECIAL PROVISIONS.
 - FULL ACTIVATED CONTROLLER AND TYPE IV CABINET SHALL INCLUDE INSTALLATION OF A PHOTOCELL AND A NEW CIRCUIT BREAKER RATED 15 AMPS FOR THE ILLUMINATED SIGNS LOAD. THE NO. 14 AWG COPPER CONDUCTORS FEEDING THE SIGNS ARE RESTRICTED TO A MAXIMUM CURRENT LOAD OF 15 AMPERES AT 75 DEGREES C.
 - THE TRAFFIC SIGNAL CONTROL EQUIPMENT SHALL BE "ECONOLITE" TO MATCH THE EXISTING SYSTEM.
 - THE SIGN CABLE SHALL BE 3/C NO. 14 WITH SOOW INSULATION, RATED AT 600V, 90° C AND MEETING UL/CSA STANDARDS.
 - ALL TRAFFIC SIGNALS SHALL BE L.E.D. (LIGHT EMITTING DIODE)
 - EXISTING FIBER OPTIC CABLE THAT WAS REMOVED DURING TEMPORARY TRAFFIC SIGNAL STAGING AND STORED IN FAR OUT HANDHOLE SHALL BE CAREFULLY REINSTALLED IN EXISTING CONDUIT TO NEW CONTROLLER.

RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO 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.



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**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

**TRAFFIC SIGNAL MODERNIZATION PLAN
U.S. ROUTE 30 (LINCOLN HWY) AND ORCHARD DRIVE**

SCALE: 1"=20'
STA. TO STA.

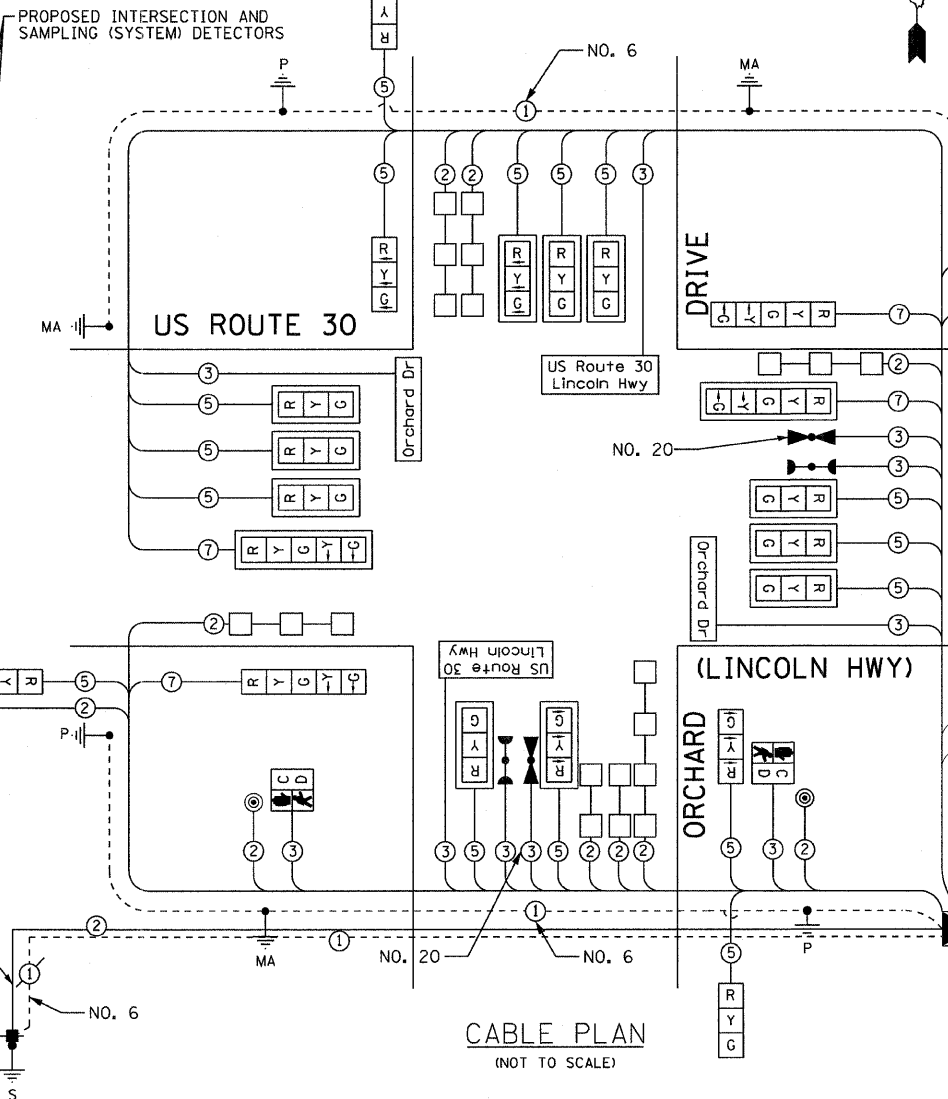
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	138
CONTRACT NO. 63635				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				M-80031661

SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	QUANTITY
72000100 SIGN PANEL - TYPE 1	SQ. FT.	10
80500020 SERVICE INSTALLATION - POLE MOUNTED	EACH	1
81028200 UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1082
81028210 UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	31
81028220 UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	87
81028240 UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	485
81400100 HANDHOLE	EACH	6
81400200 HEAVY-DUTY HANDHOLE	EACH	4
81400300 DOUBLE HANDHOLE	EACH	2
86200300 UNINTERRUPTIBLE POWER SUPPLY, EXTENDED	EACH	1
86400100 TRANSCIEVER - FIBER OPTIC	EACH	1
87301215 ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	611
87301225 ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	1497
87301245 ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	3678
87301255 ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	860
87301305 ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2910
87301900 ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	599
87502480 TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2
87502500 TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
87700230 STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
87700280 STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
87700300 STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	2
87800100 CONCRETE FOUNDATION, TYPE A	FOOT	12
87800150 CONCRETE FOUNDATION, TYPE C	FOOT	4
87800415 CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	54
88030020 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	12
88030110 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
88030210 SIGNAL HEAD, LED, 2-FACE, 3 SECTION, BRACKET MOUNTED	EACH	2
88030240 SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2
88102717 PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
88200210 TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	14
88500100 INDUCTIVE LOOP DETECTOR	EACH	13
88600100 DETECTOR LOOP, TYPE I	FOOT	1039
88700200 LIGHT DETECTOR	EACH	2
88700300 LIGHT DETECTOR AMPLIFIER	EACH	1
88800100 PEDESTRIAN PUSH-BUTTON	EACH	2
89000100 TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
89100400 ILLUMINATED SIGN, LED	EACH	4
89502300 REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	8295
89502350 REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	600
89502375 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502380 REMOVE EXISTING HANDHOLE	EACH	9
89502382 REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
89502385 REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
Z0033044 RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1
Z0073510 TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
X8570225 FULL-ACTUATED CONTROLLER AND CABINET, TYPE IV, SPECIAL	EACH	1
X8730250 ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	371

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE		%OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	21		17	0.50	178.50
(YELLOW)	21		25	0.25	131.25
(GREEN)	21		15	0.25	78.75
ARROW	8		12	0.10	9.60
PED. SIGNAL	2		25	1.00	50.00
CONTROLLER	1	100		1.00	100.00
ILLUM. SIGN	4		90	0.50	180.00
VIDEO DET.	0		150	1.00	0
LUMINAIRE	0		250	0.50	0
FLASHER				0.50	-
ENERGY COSTS TO: TOTAL =					728.10
ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096 ENERGY SUPPLY CONTACT: VALERIE MURPHY PHONE: (708) 235-2346 COMPANY: COMED					

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	DATE - 10/31/11	FILE - 060670-PH2-ts-cable-5-RT30.sh1



CABLE PLAN (NOT TO SCALE)

CABLE PLAN LEGEND
NOTE: SEE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS SHEET FOR FULL LEGEND

US Route 30 Lincoln Hwy LED INTERNALLY ILLUMINATED STREET NAME SIGNS

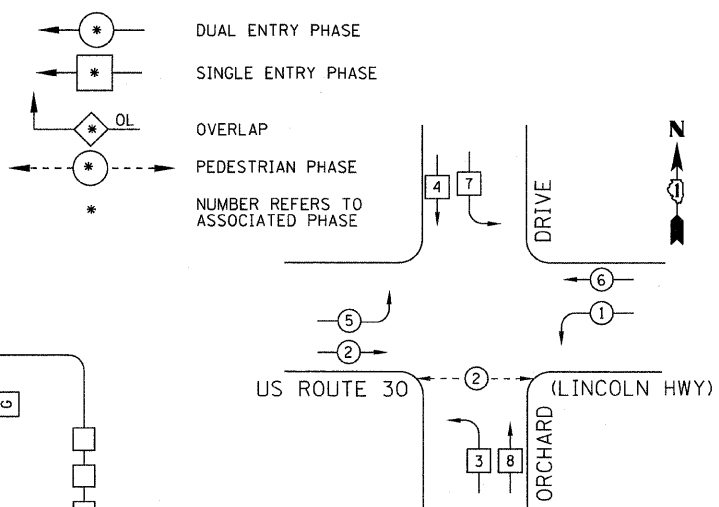
NOTE: THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

STATE OF ILLINOIS ORCHARD DRIVE IMPROVEMENTS

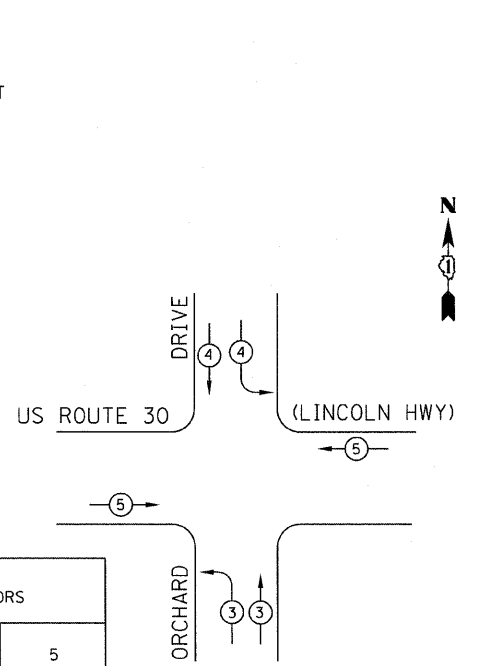
TRAFFIC SIGNAL CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES US ROUTE 30 (LINCOLN HWY) AND ORCHARD DR

PROPOSED CONTROLLER SEQUENCE

LEGEND



PHASE DESIGNATION DIAGRAM



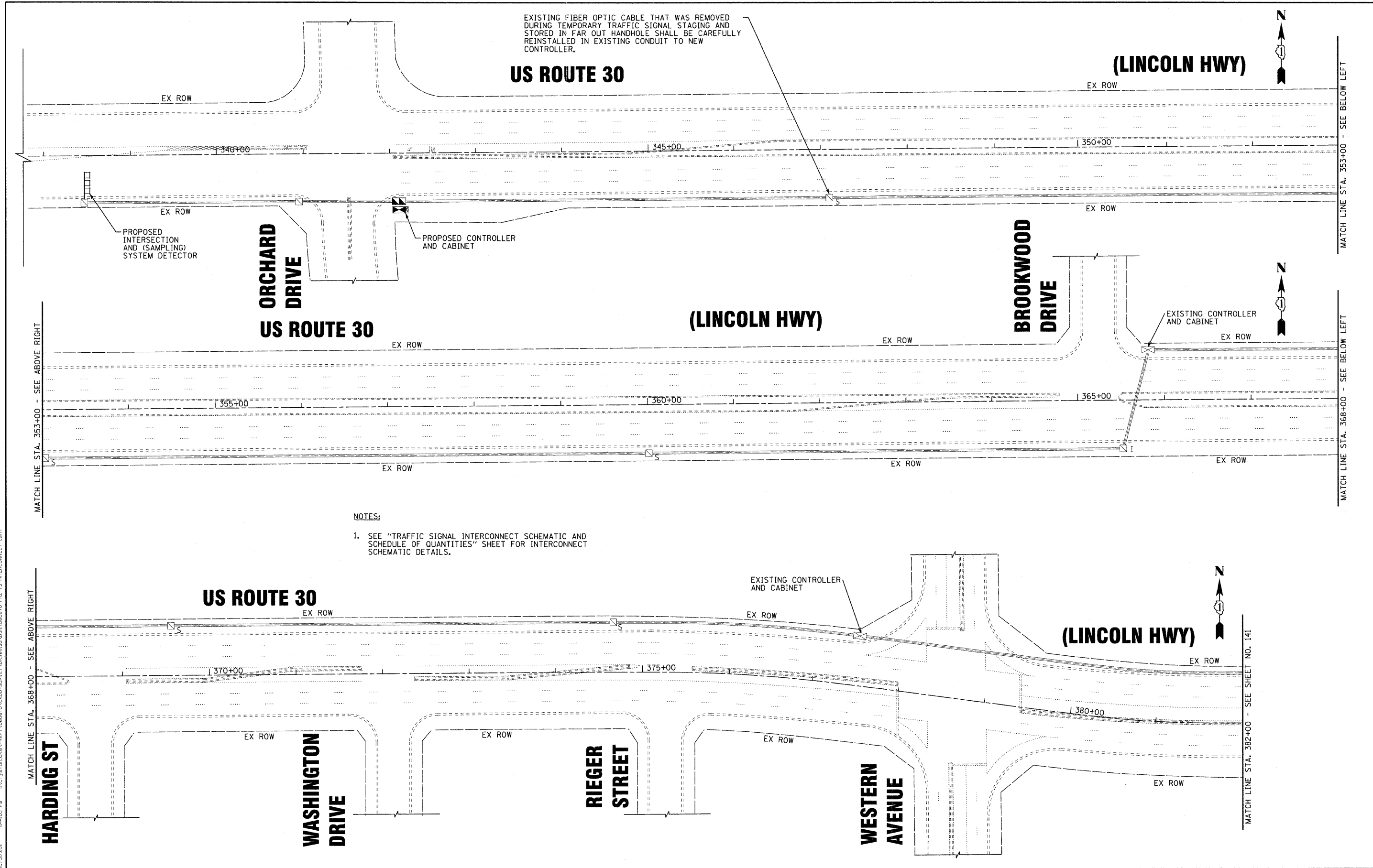
PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			

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F.A.U. RTE. 2836	SECTION 06-00090-00-FP	COUNTY COOK	TOTAL SHEETS 200	SHEET NO. 139
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT W-80031661	

EXISTING FIBER OPTIC CABLE THAT WAS REMOVED DURING TEMPORARY TRAFFIC SIGNAL STAGING AND STORED IN FAR OUT HANDHOLE SHALL BE CAREFULLY REINSTALLED IN EXISTING CONDUIT TO NEW CONTROLLER.



- NOTES:
- SEE "TRAFFIC SIGNAL INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES" SHEET FOR INTERCONNECT SCHEMATIC DETAILS.

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STATE OF ILLINOIS
 ORCHARD DRIVE IMPROVEMENTS

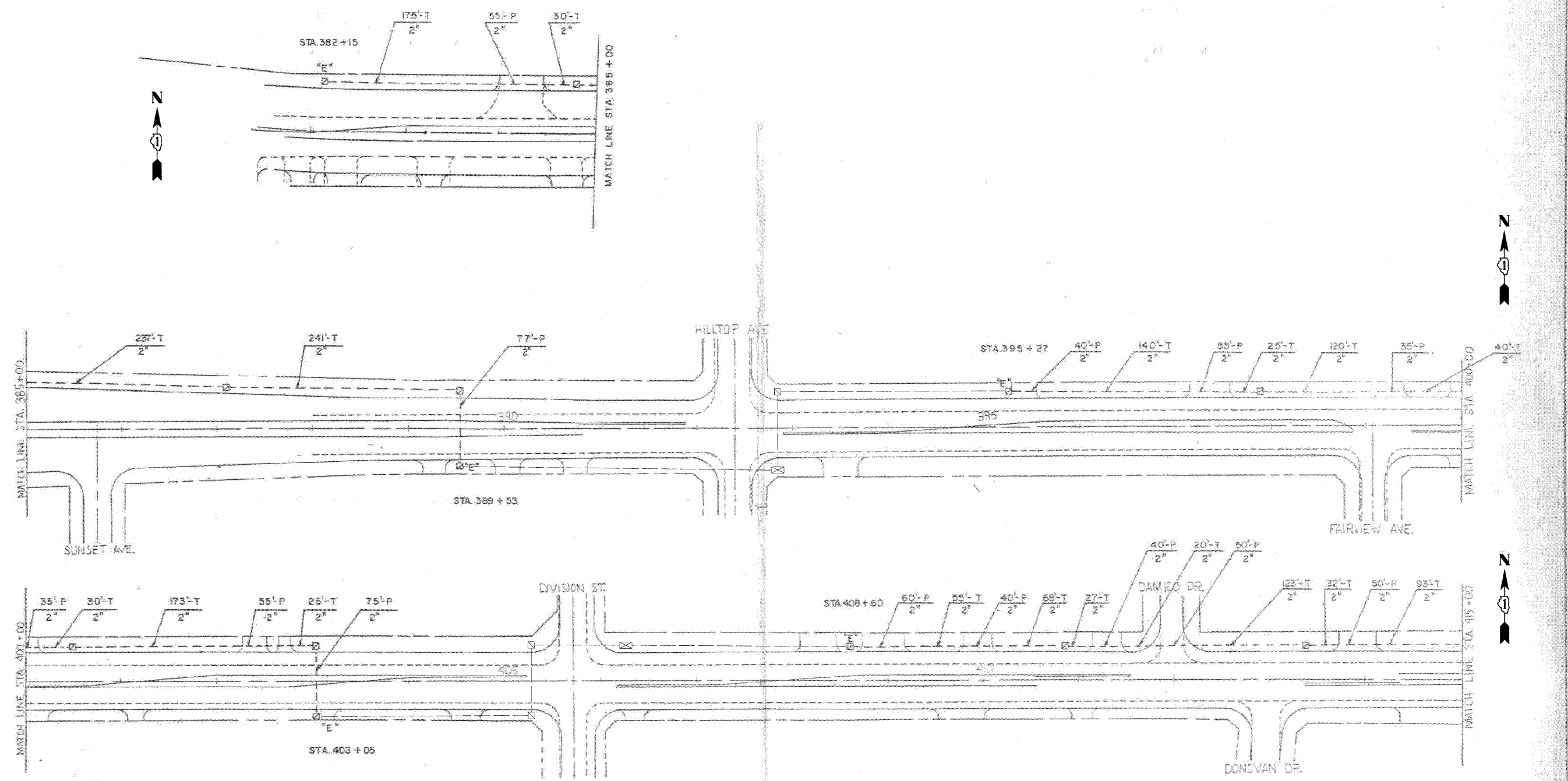
TRAFFIC SIGNAL INTERCONNECT PLAN
 US ROUTE 30 (LINCOLN HWY) AND ORCHARD DRIVE

SCALE: 1" = 50' STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	140
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	M-8003661

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
06-00090-00-FP	COOK	200	141
STA. 352+00 TO STA. 415+00		CONTRACT NO. 63635	

P91-441-73



FOR
REFERENCE
ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 I.A.P. RTE. 848 (U.S. RTE. 30)
 LINCOLN HIGHWAY
TRAFFIC SIGNAL INTERCONNECT PLAN
 (STA. 352+00 TO STA. 415+00)
 SCALE: VERT. 1" = 50'
 DATE: 7-26-84
 DRAWN BY: APZ
 DESIGNED BY: RKF
 CHECKED BY: WCN

T.S. 8 OF 12

DESIGNED BY: J.J.F. WOODMAN, INC.
 DRAWN BY: C.J.C. WOODMAN, INC.
 CHECKED BY: T.A.O. WOODMAN, INC.
 DATE: 10/24/11
 LICENSE NO. 184-00021 - EXPIRES 4/30/2013
 10/31/2011 14407 FM



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CHECKED - TAO	REVISED -
DATE - 10/24/11	FILE - 060670-PH2-TS-INTERCONNECT-2.sht

**STATE OF ILLINOIS
 ORCHARD DRIVE IMPROVEMENTS**

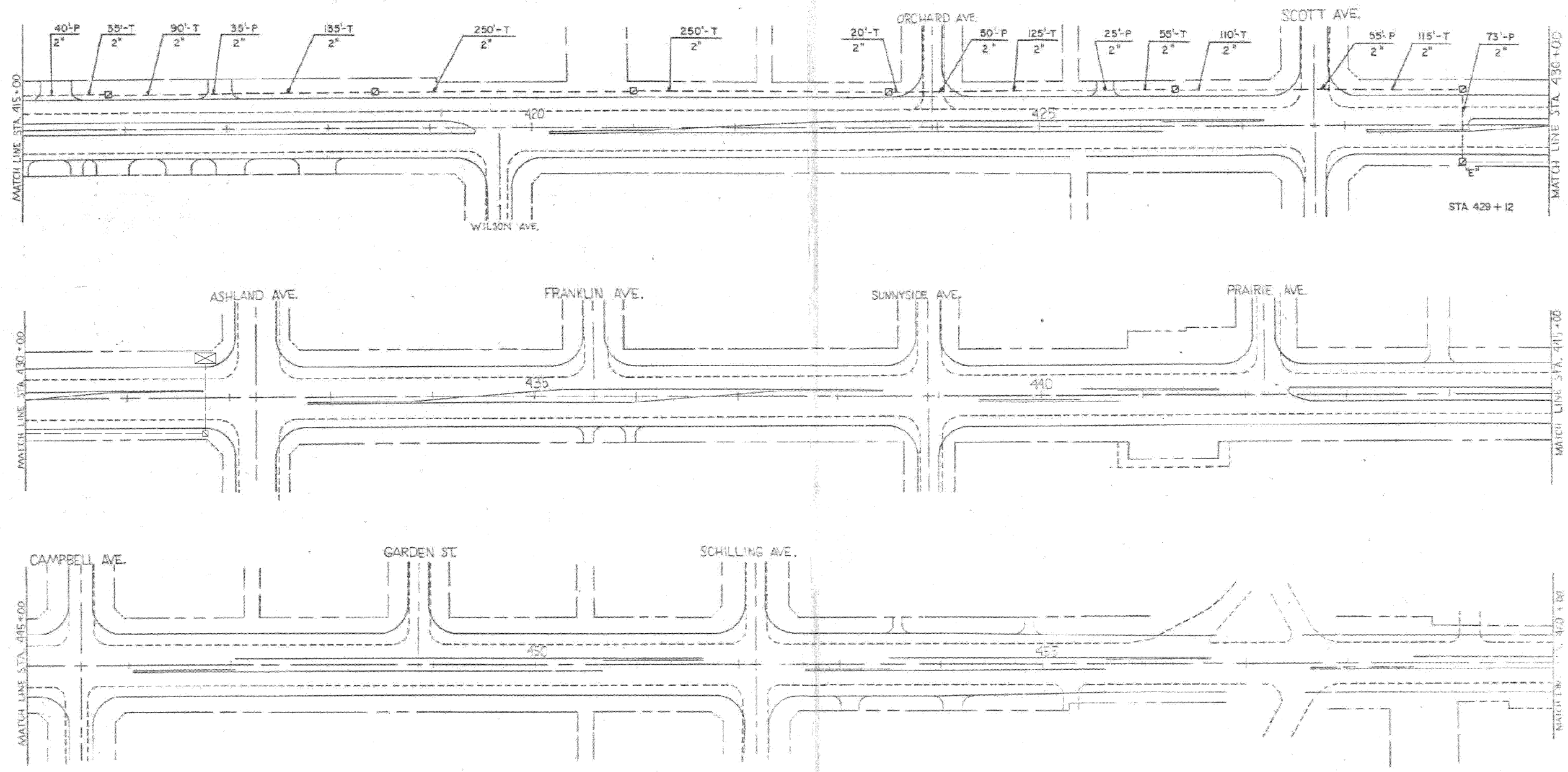
**TRAFFIC SIGNAL INTERCONNECT PLAN
 US ROUTE 30 (LINCOLN HWY) AND ORCHARD DRIVE**

SCALE: NONE STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	141
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	M-80036611

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
428-1100	COOK	139	104
STA. 415+00		TO STA. 460+00	
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT	

P 91-441-73



FOR
REFERENCE
ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. RTE. 848 (U.S. RTE. 30)
LINCOLN HIGHWAY
TRAFFIC SIGNAL INTERCONNECT PLAN
(STA. 415+00 TO STA. 460+00)
SCALE: VERT. 1" = 50'
HORIZ. 7-28-84
DRAWN BY APZ
DESIGNED BY RKF
CHECKED BY WCN

T.S. 9 OF 12

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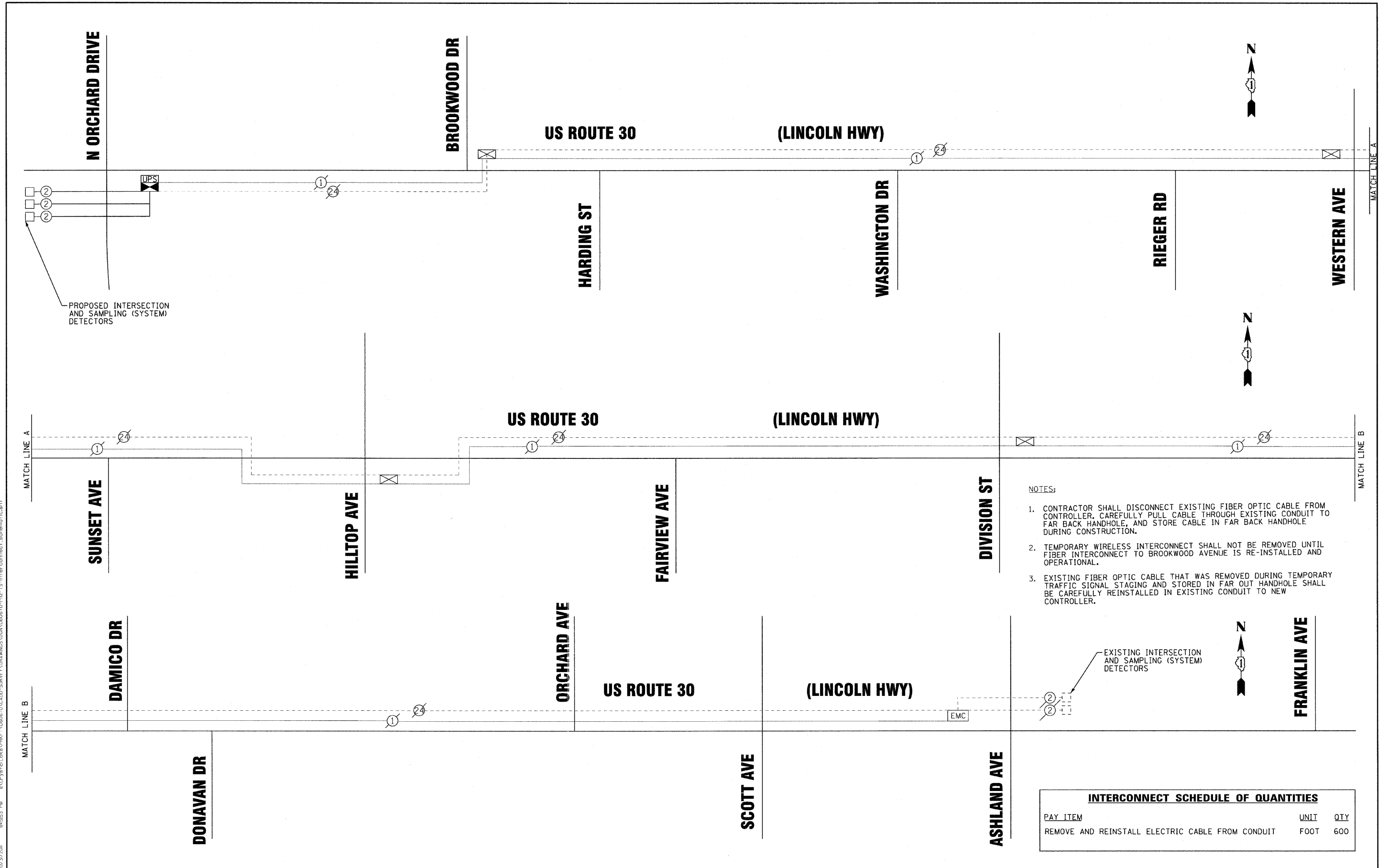


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STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS

TRAFFIC SIGNAL INTERCONNECT PLAN
US ROUTE 30 (LINCOLN HWY) AND ORCHARD DRIVE
SCALE: NONE STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	142
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT	
			CONTRACT NO. 63635	
			M-8003661	



PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

NOTES:

1. CONTRACTOR SHALL DISCONNECT EXISTING FIBER OPTIC CABLE FROM CONTROLLER, CAREFULLY PULL CABLE THROUGH EXISTING CONDUIT TO FAR BACK HANDHOLE, AND STORE CABLE IN FAR BACK HANDHOLE DURING CONSTRUCTION.
2. TEMPORARY WIRELESS INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECT TO BROOKWOOD AVENUE IS RE-INSTALLED AND OPERATIONAL.
3. EXISTING FIBER OPTIC CABLE THAT WAS REMOVED DURING TEMPORARY TRAFFIC SIGNAL STAGING AND STORED IN FAR OUT HANDHOLE SHALL BE CAREFULLY REINSTALLED IN EXISTING CONDUIT TO NEW CONTROLLER.

EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

INTERCONNECT SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QTY
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	600

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**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

**TRAFFIC SIGNAL INTERCONNECT SCHEMATIC
AND SCHEDULE OF QUANTITIES
US ROUTE 30 (LINCOLN HWY) AND ORCHARD DRIVE**

SCALE: NONE STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	143
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635 N-8003661	

GENERAL NOTES

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (REFERRED TO AS THE "STANDARD SPECIFICATIONS"), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS", THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "MANUAL OF TEST PROCEDURES FOR MATERIALS" AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS".

THE EXACT LOCATIONS OF ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE LIGHTING SYSTEM. FOR THE LOCATIONS OF THE UTILITIES, CALL JULIE TOLL FREE AT 1-800-892-0123. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE EXISTING TRAFFIC SIGNAL CABLES AND CONDUITS.

UTILITY LOCATIONS HAVE NOT BEEN SHOWN ON THESE PLANS. THE CONTRACTOR SHALL HAVE THE RESPECTIVE UTILITY COMPANIES FIELD LOCATE ALL THEIR FACILITIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL ALSO VERIFY THE DEPTHS OF THE EXISTING UTILITIES IF NECESSARY. ANY RELOCATION OR LOWERING OF UTILITIES SHALL BE COORDINATED BY THE CONTRACTOR.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER OR VILLAGE.

THE CONTRACTOR SHALL NOTIFY THE VILLAGE PUBLIC WORKS ADMINISTRATOR AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK TO OBTAIN VILLAGE UTILITY LOCATIONS AND SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH THE ENGINEER.

MATERIALS RESULTING FROM THE REMOVAL OF PAVEMENT, DRIVEWAYS, CURB AND GUTTER, HOT-MIX ASPHALT SURFACES, ETC. SHALL BE REMOVED AT THE END OF EACH DAY TO AN APPROVED SITE. IN THE JUDGMENT OF THE VILLAGE, SHOULD IT BE NECESSARY TO REMOVE SUCH MATERIALS, THE VILLAGE WILL HAVE THE MATERIAL REMOVED AND THE CONTRACTOR WILL BE BILLED (CHARGED) ACCORDINGLY.

THE CONTRACTOR MAY OBTAIN MUNICIPAL WATER IN BULK, AT NO CHARGE, AS LONG AS THERE IS NOT A "WATERING BAN" IN EFFECT. THE INDISCRIMINATE USE OF FIRE HYDRANTS IS STRICTLY PROHIBITED. WATER FOR CONSTRUCTION SHALL BE METERED OR OTHERWISE ACCOUNTED FOR AND A DAILY LOG MAINTAINED. THE CONTRACTOR SHALL PROVIDE THE WATER TRUCK AND DRIVER REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE VILLAGE RESERVES THE RIGHT TO RESTRICT OR REFUSE THE USE OF VILLAGE WATER IF DEEMED NECESSARY.

IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY RESIDENTS AND THE VILLAGE WHEN ACCESS TO THEIR DRIVEWAYS WILL BE TEMPORARILY CLOSED. THE CONTRACTOR SHALL DISTRIBUTE NOTICES PROVIDED BY THE VILLAGE TO RESIDENTS. EVERY EFFORT SHALL BE MADE TO ACCOMMODATE ACCESS TO THESE PROPERTIES INCLUDING KNOCKING ON DOORS WHEN DRIVEWAYS ARE ABOUT TO BE CLOSED.

THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS OR PROPERTY OR REFERENCE MARKERS UNTIL THE OWNERS, HIS AGENT OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.

ACCESS TO PRIVATE DRIVEWAYS SHALL BE PROVIDED AT ALL TIMES EXCEPT DURING ACTUAL CONSTRUCTION ADJACENT THERE TO. TEMPORARY RAMPS SHALL BE CONSTRUCTED AS NEEDED TO PROVIDE SUCH ACCESS, UTILIZING CRUSHED STONE OR CRUSHED GRAVEL.

EXISTING STREET LIGHTING UNITS TO REMAIN IN OPERATION AND TO BE MAINTAINED BY THE CONTRACTOR UNTIL NEW STREET LIGHTS ARE OPERATIONAL AND ACCEPTED BY THE VILLAGE.

THE CONTRACTOR SHALL ADJUST LOCATION OF LIGHT POLES AT INTERSECTION SO AS NOT TO BLOCK VIEW OF EXISTING TRAFFIC SIGNALS.

CARE IS TO BE TAKEN AS NOT TO DAMAGE ANY OF THE EXISTING TRAFFIC SIGNAL CONDUITS, DETECTORS AND EQUIPMENT. IF ANY OF THE TRAFFIC SIGNAL CONDUIT AND/OR EQUIPMENT IS DAMAGED THE CONTRACTOR SHALL REPAIR AND/OR REPLACE THE CONDUIT AND/OR EQUIPMENT AT NO COST TO THE COUNTY OR THE VILLAGE.

THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENT FOR BURIED WARNING TAPE, SPECIFIED AS PART OF "TRENCH AND BACKFILL FOR ELECTRICAL WORK". THE INSTALLATION OF THE TAPE SHALL BE INSPECTED AND APPROVED BY THE RESIDENT ENGINEER PRIOR TO BACKFILLING OR DURING PLOWING OPERATIONS, AS APPLICABLE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE RESIDENT ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY FOR COORDINATING THE FINISHED GRADE ELEVATION WITH THE TOP OF FOUNDATION HEIGHTS AND THE LIGHT SHALL REMAIN WITH THE CONTRACTOR.

THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR WIRE MARKERS AND SHALL TAG ALL WIRE ACCORDINGLY.

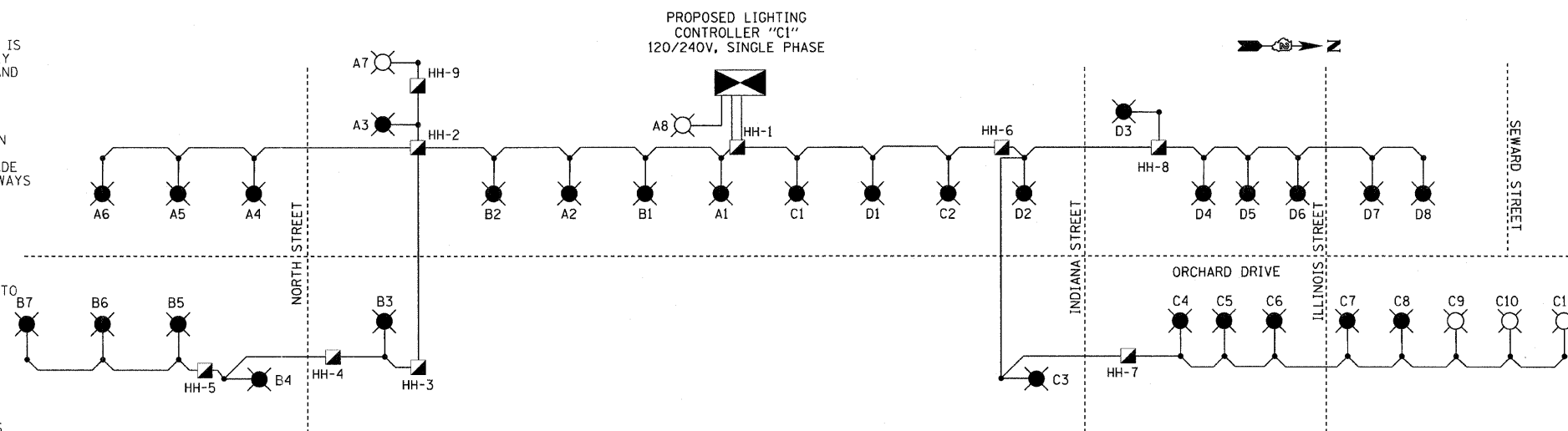
EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND/OR BONDED AT EACH LIGHT POLE OR OTHER PIECE OF EQUIPMENT.

CONDUIT AND UNIT DUCT MUST BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH TREES, BUSHES, DRAINS AND OTHER UTILITIES AND LANDSCAPING.

ALL DISTURBED AREAS WHERE RESTORATION IS NOT COVERED BY APPLICABLE SECTIONS OF THE SPECIAL PROVISIONS MUST BE RESTORED TO THE SATISFACTION OF THE ENGINEER. THE WORK MUST BE CONSIDERED INCIDENTAL TO THE CONTRACT. SEPARATE PAYMENT WILL NOT BE MADE.

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1136
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	789
81400730	HANDHOLE, COMPOSITE CONCRETE	EACH	10
81603035	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	6709
81603100	UNIT DUCT, 600V, 4-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	1091
82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	29
82500350	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP	EACH	1
84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	26
84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	3
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1
	LIGHT POLE, FIBERGLASS 35 FT. M.H., 12 FT. ARM, TENON MOUNT	EACH	29



LOAD TABULATIONS FOR LIGHTING CONTROLLER C1

CIRCUIT	WATTS	AMPS
A	2285	12
B	2135	11
C	3190	17
D	2440	12
TOTAL	10050	52

LEGEND

- PROPOSED 250 WATT MH, 240V, M-C-III LUMINAIRE
- EXISTING 250 WATT HPS, 240V, M-C-III LUMINAIRE
- EXISTING COM-ED SERVICE POLE
- PROPOSED NEW COM-ED POLE
- PROPOSED LIGHTING CONTROLLER

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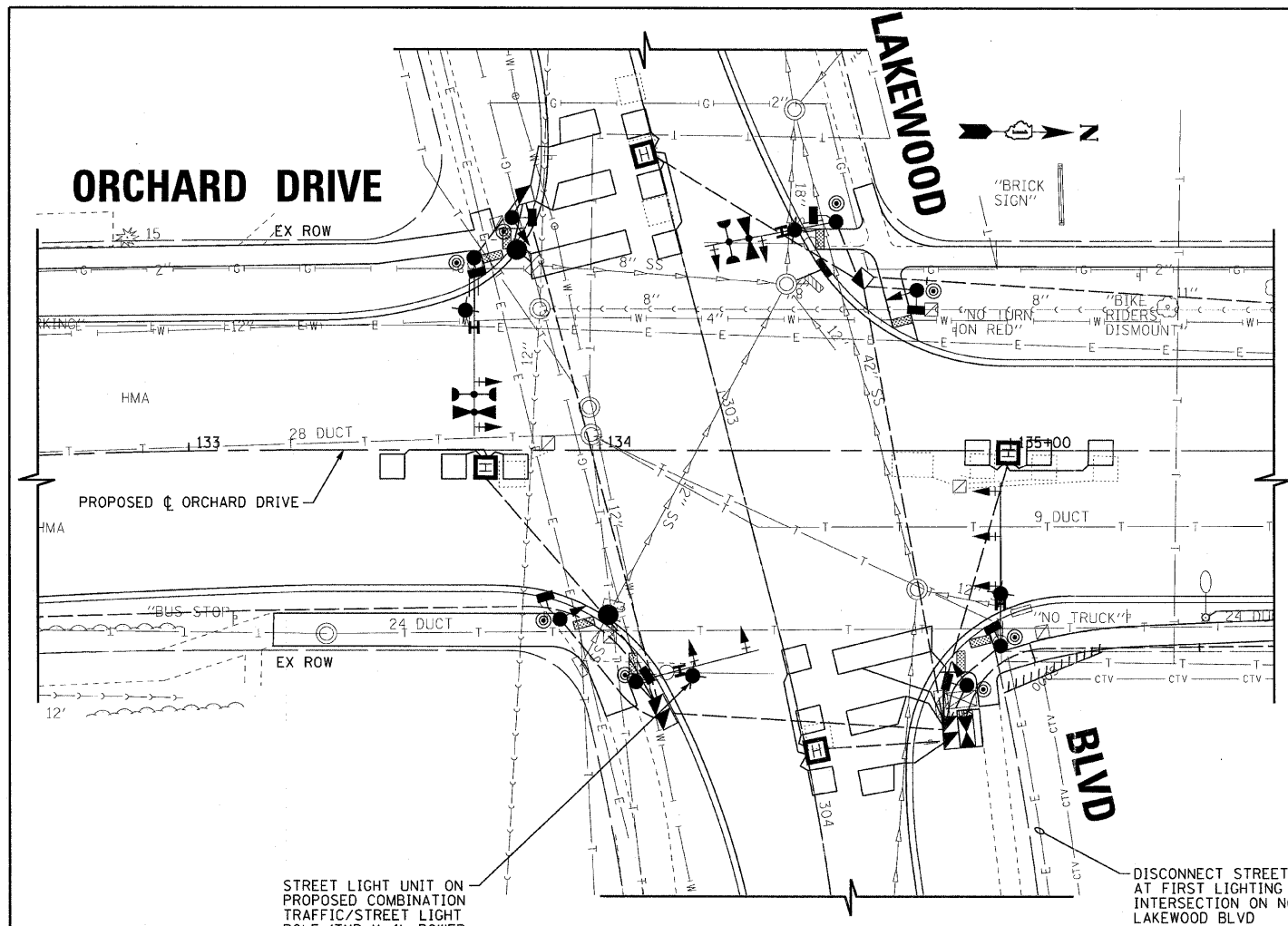
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CHECKED - TLH	REVISED -
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**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

**ORCHARD DRIVE - STREET LIGHTING
GENERAL NOTES, SUMMARY OF QUANTITIES
& SINGLE LINE DIAGRAM**

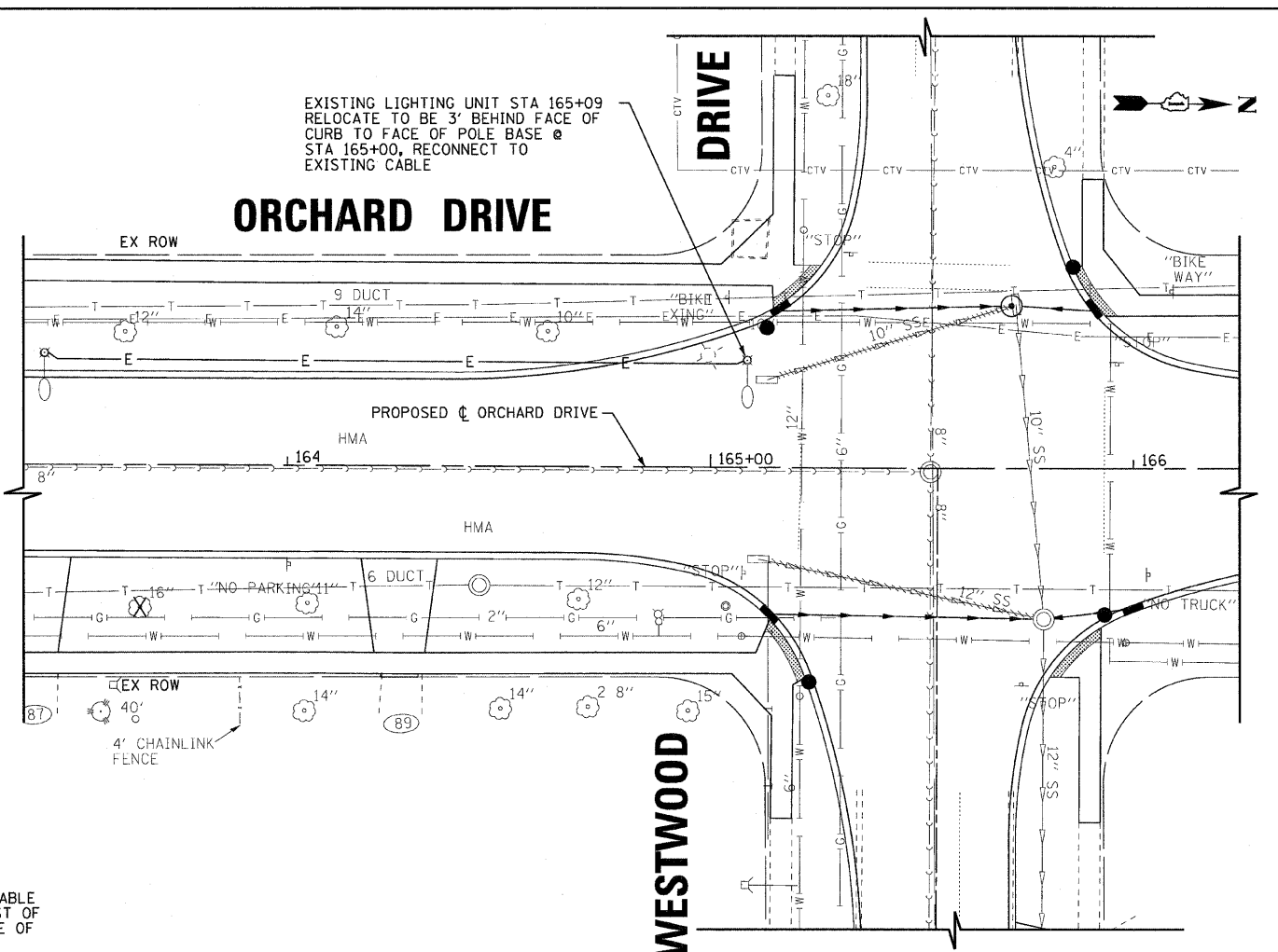
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	144
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635	
			M-8003661	

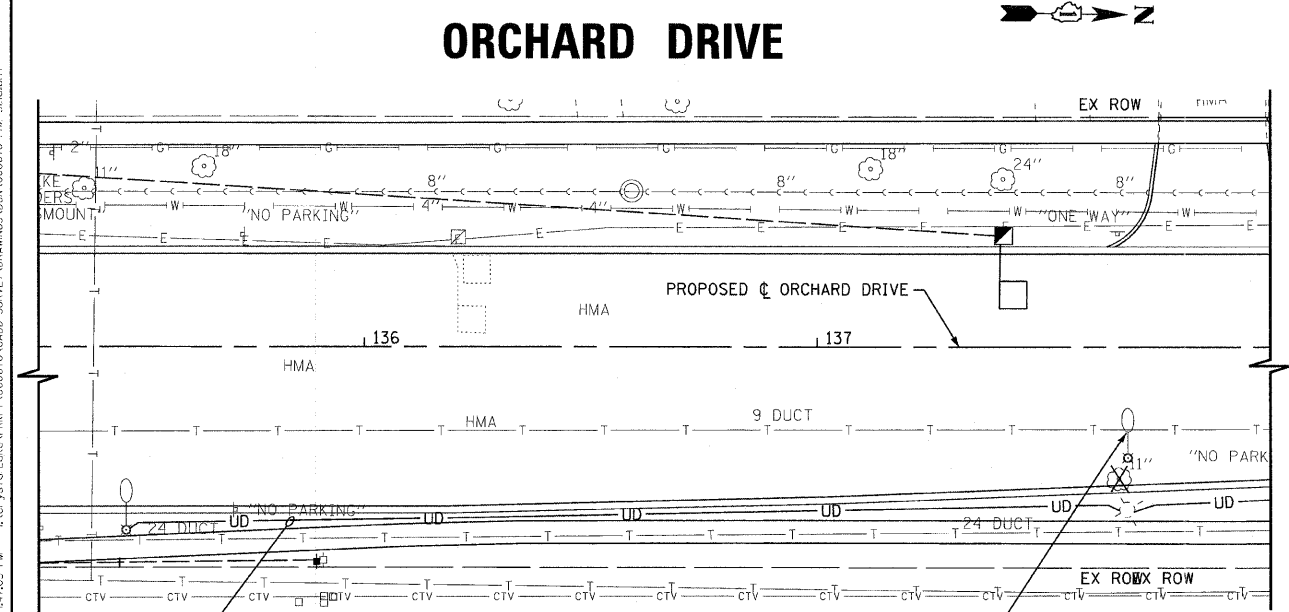


STREET LIGHT UNIT ON PROPOSED COMBINATION TRAFFIC/STREET LIGHT POLE (TYP X 4), POWER STREET LIGHT FROM TRAFFIC CONTROLLER

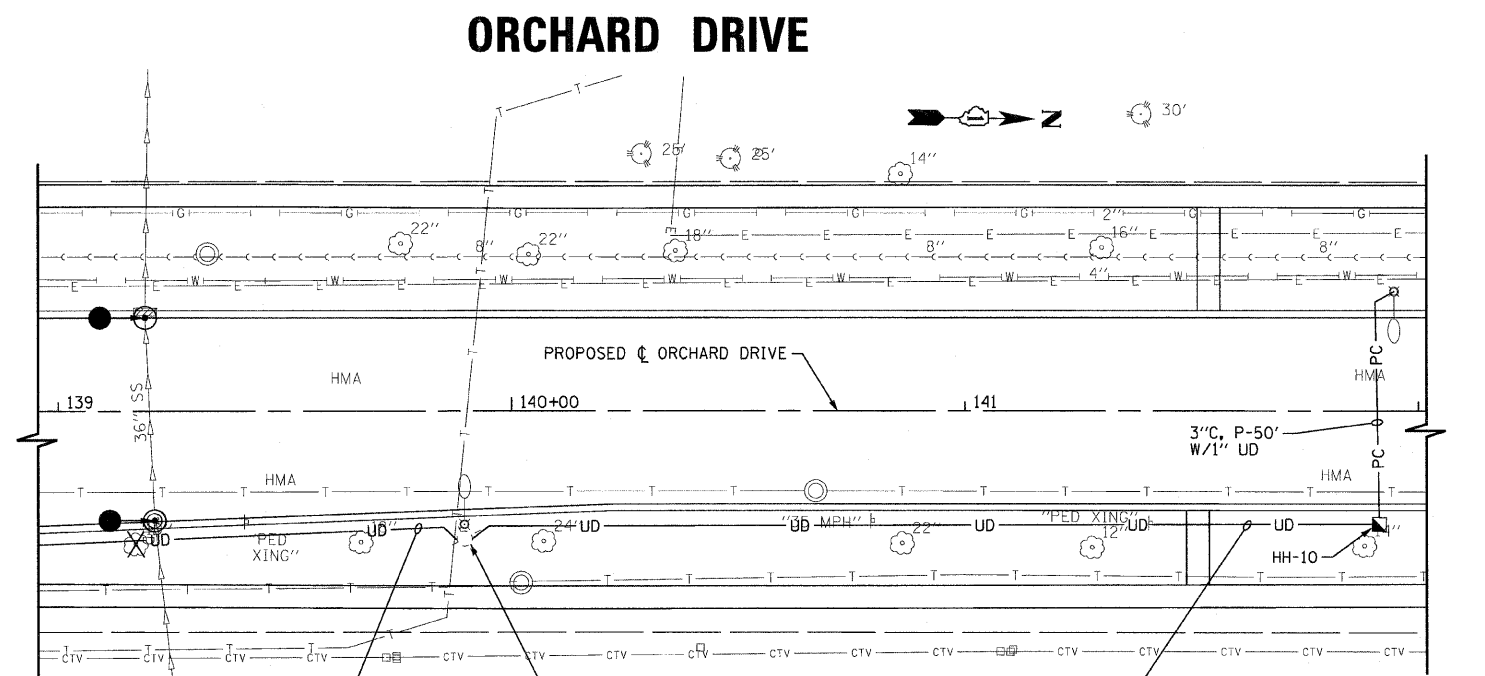
DISCONNECT STREET LIGHT CABLE AT FIRST LIGHTING UNIT EAST OF INTERSECTION ON NORTH SIDE OF LAKEWOOD BLVD



EXISTING LIGHTING UNIT STA 165+09 RELOCATE TO BE 3' BEHIND FACE OF CURB TO FACE OF POLE BASE @ STA 165+00, RECONNECT TO EXISTING CABLE



EXISTING LIGHTING UNIT STA 137+68 RELOCATE TO BE 3' BEHIND FACE OF CURB TO FACE OF POLE BASE



EXISTING LIGHTING UNIT STA 139+90 RELOCATE TO BE 3' BEHIND FACE OF CURB TO FACE OF POLE BASE

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 LICENSE NO. 060670-PH2-SL1a.sht
 EXPIRES 7/30/2015
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DRAWN - MAC	REVISED -
CHECKED - TAO	REVISED -
DATE - 10/24/11	FILE - 060670-PH2-SL1a.sht

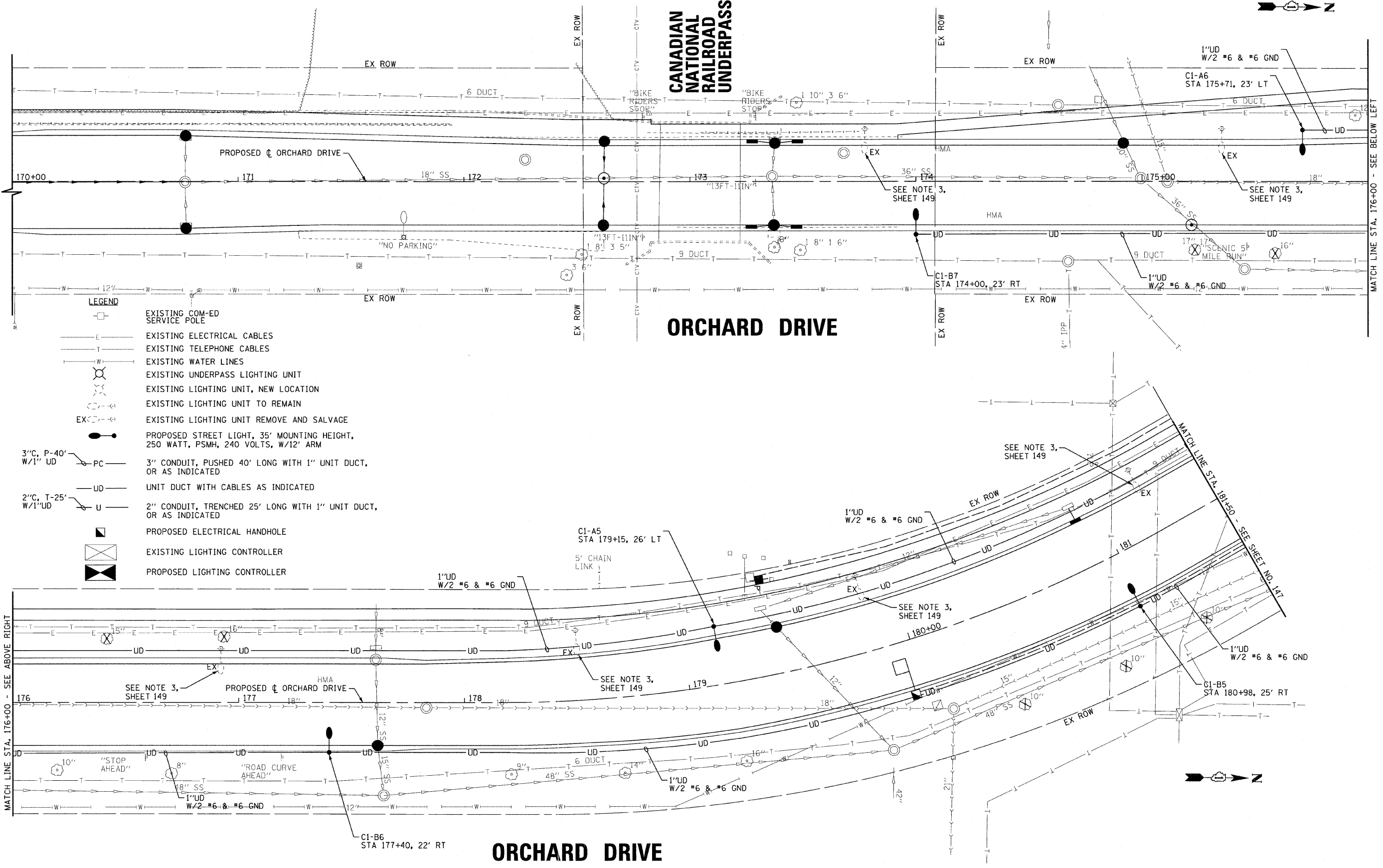
**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

**STREET LIGHTING
ORCHARD DRIVE**

SCALE: 1"=20'

STA. 170+00 TO STA. 181+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	145
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 63635	
FED. AID PROJECT			M-800366U	



DESIGNED BY: BAXTER & WOODMAN, INC.
 DRAWN BY: MWH
 CHECKED BY: MWH
 DATE: 10/24/11
 PROJECT NO.: 060670-PH2-SL1
 SHEET NO.: 146
 CONTRACT NO.: 63635

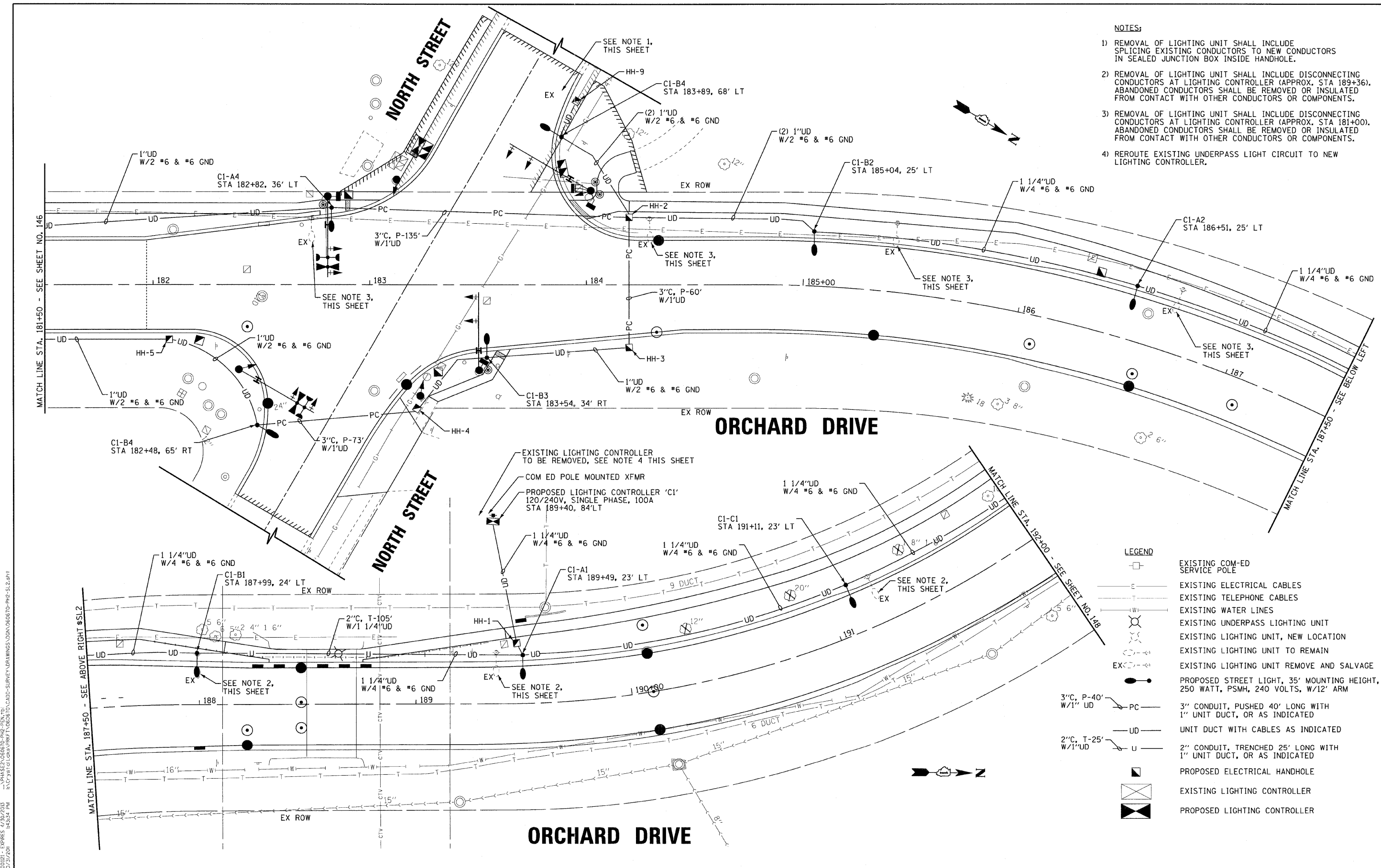


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DRAWN -	REVISED -
CHECKED -	REVISED -
DATE - 10/24/11	FILE - 060670-PH2-SL1.sht

**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

**STREET LIGHTING
ORCHARD DRIVE**

SCALE: 1"=20'	STA. 170+00 TO STA. 181+50	F.A.U. RTE. 2836	SECTION 06-00090-00-FP	COUNTY COOK	TOTAL SHEETS 200	SHEET NO. 146
				FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT N-80031661	



- NOTES:**
- 1) REMOVAL OF LIGHTING UNIT SHALL INCLUDE SPLICING EXISTING CONDUCTORS TO NEW CONDUCTORS IN SEALED JUNCTION BOX INSIDE HANDHOLE.
 - 2) REMOVAL OF LIGHTING UNIT SHALL INCLUDE DISCONNECTING CONDUCTORS AT LIGHTING CONTROLLER (APPROX. STA 189+36). ABANDONED CONDUCTORS SHALL BE REMOVED OR INSULATED FROM CONTACT WITH OTHER CONDUCTORS OR COMPONENTS.
 - 3) REMOVAL OF LIGHTING UNIT SHALL INCLUDE DISCONNECTING CONDUCTORS AT LIGHTING CONTROLLER (APPROX. STA 181+00). ABANDONED CONDUCTORS SHALL BE REMOVED OR INSULATED FROM CONTACT WITH OTHER CONDUCTORS OR COMPONENTS.
 - 4) REROUTE EXISTING UNDERPASS LIGHT CIRCUIT TO NEW LIGHTING CONTROLLER.

- LEGEND**
- EXISTING COM-ED SERVICE POLE
 - EXISTING ELECTRICAL CABLES
 - EXISTING TELEPHONE CABLES
 - EXISTING WATER LINES
 - EXISTING UNDERPASS LIGHTING UNIT
 - EXISTING LIGHTING UNIT, NEW LOCATION
 - EXISTING LIGHTING UNIT TO REMAIN
 - EXISTING LIGHTING UNIT REMOVE AND SALVAGE
 - PROPOSED STREET LIGHT, 35' MOUNTING HEIGHT, 250 WATT, PSMH, 240 VOLTS, W/12' ARM
 - 3" CONDUIT, PUSHED 40' LONG WITH 1" UNIT DUCT, OR AS INDICATED
 - UNIT DUCT WITH CABLES AS INDICATED
 - 2" CONDUIT, TRENCHED 25' LONG WITH 1" UNIT DUCT, OR AS INDICATED
 - PROPOSED ELECTRICAL HANDHOLE
 - EXISTING LIGHTING CONTROLLER
 - PROPOSED LIGHTING CONTROLLER

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 LICENSE NO. 184-00121 - EXPIRES 4/30/2015
 10/23/2011 10:43:34 AM



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DRAWN -	REVISED -
CHECKED -	REVISED -
DATE - 10/24/11	FILE - 060670-PH2-SL2.sht

**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

**STREET LIGHTING
ORCHARD DRIVE**

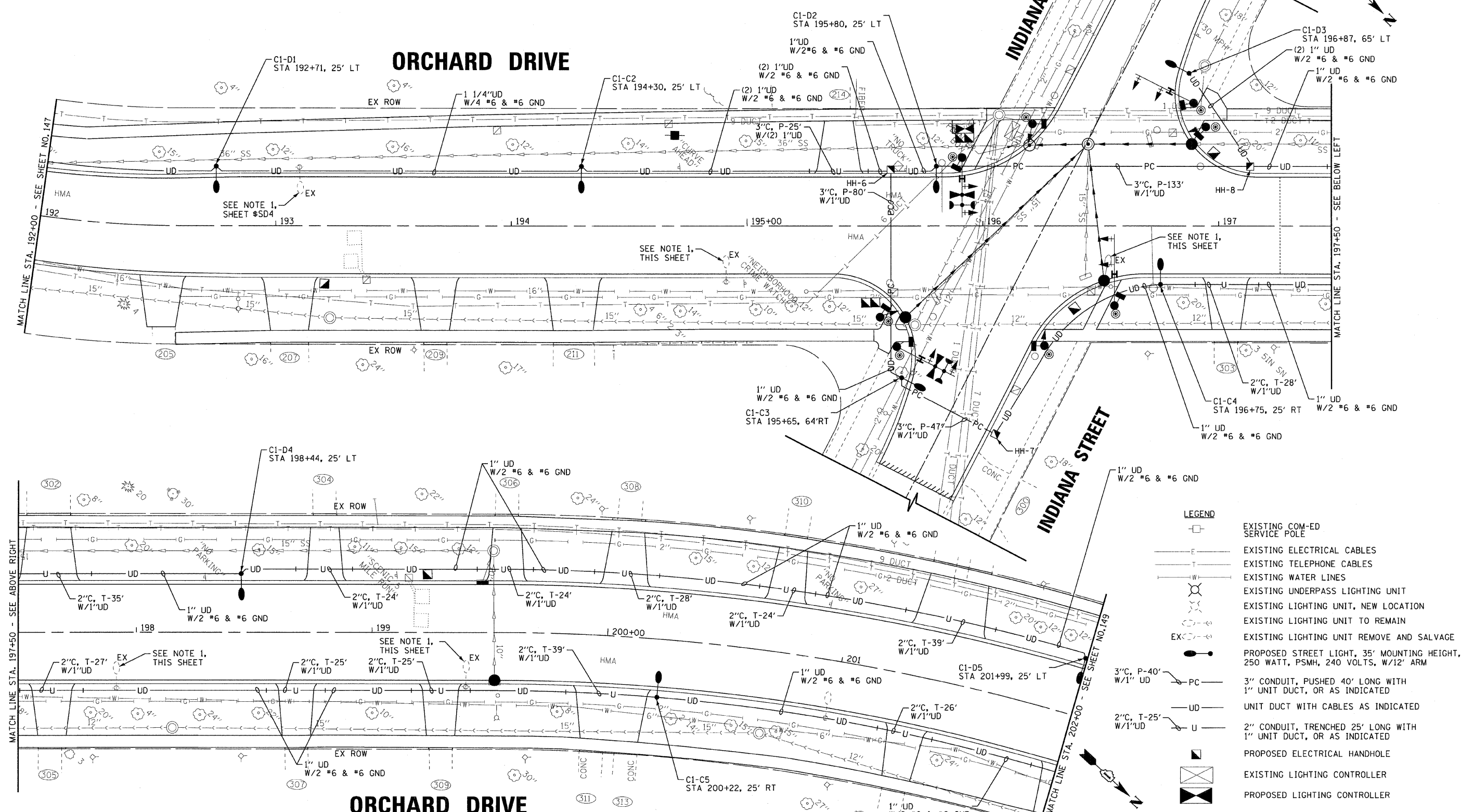
SCALE: 1"=20'

STA. 181+50 TO STA. 192+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	147
CONTRACT NO. 63635			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT W-80036611	

NOTES:

- REMOVAL OF LIGHTING UNIT SHALL INCLUDE DISCONNECTING CONDUCTORS AT EXISTING UNDERGROUND "T" SPLICE OR AT ELECTRICAL SOURCE IN EASEMENT BEHIND 300 NORTH ORCHARD DRIVE. ABANDONED CONDUCTORS SHALL BE REMOVED OR INSULATED FROM CONTACT WITH OTHER CONDUCTORS OR COMPONENTS. ENSURE LIGHTING UNIT BY 302 NEW SALEM ST. REMAINS OPERATIONAL.



LEGEND

	EXISTING COM-ED SERVICE POLE
	EXISTING ELECTRICAL CABLES
	EXISTING TELEPHONE CABLES
	EXISTING WATER LINES
	EXISTING UNDERPASS LIGHTING UNIT
	EXISTING LIGHTING UNIT, NEW LOCATION
	EXISTING LIGHTING UNIT TO REMAIN
	EXISTING LIGHTING UNIT REMOVE AND SALVAGE
	PROPOSED STREET LIGHT, 35' MOUNTING HEIGHT, 250 WATT, PSMH, 240 VOLTS, W/12' ARM
	3" CONDUIT, PUSHED 40' LONG WITH 1" UNIT DUCT, OR AS INDICATED
	UNIT DUCT WITH CABLES AS INDICATED
	2" CONDUIT, TRENCHED 25' LONG WITH 1" UNIT DUCT, OR AS INDICATED
	PROPOSED ELECTRICAL HANDHOLE
	EXISTING LIGHTING CONTROLLER
	PROPOSED LIGHTING CONTROLLER

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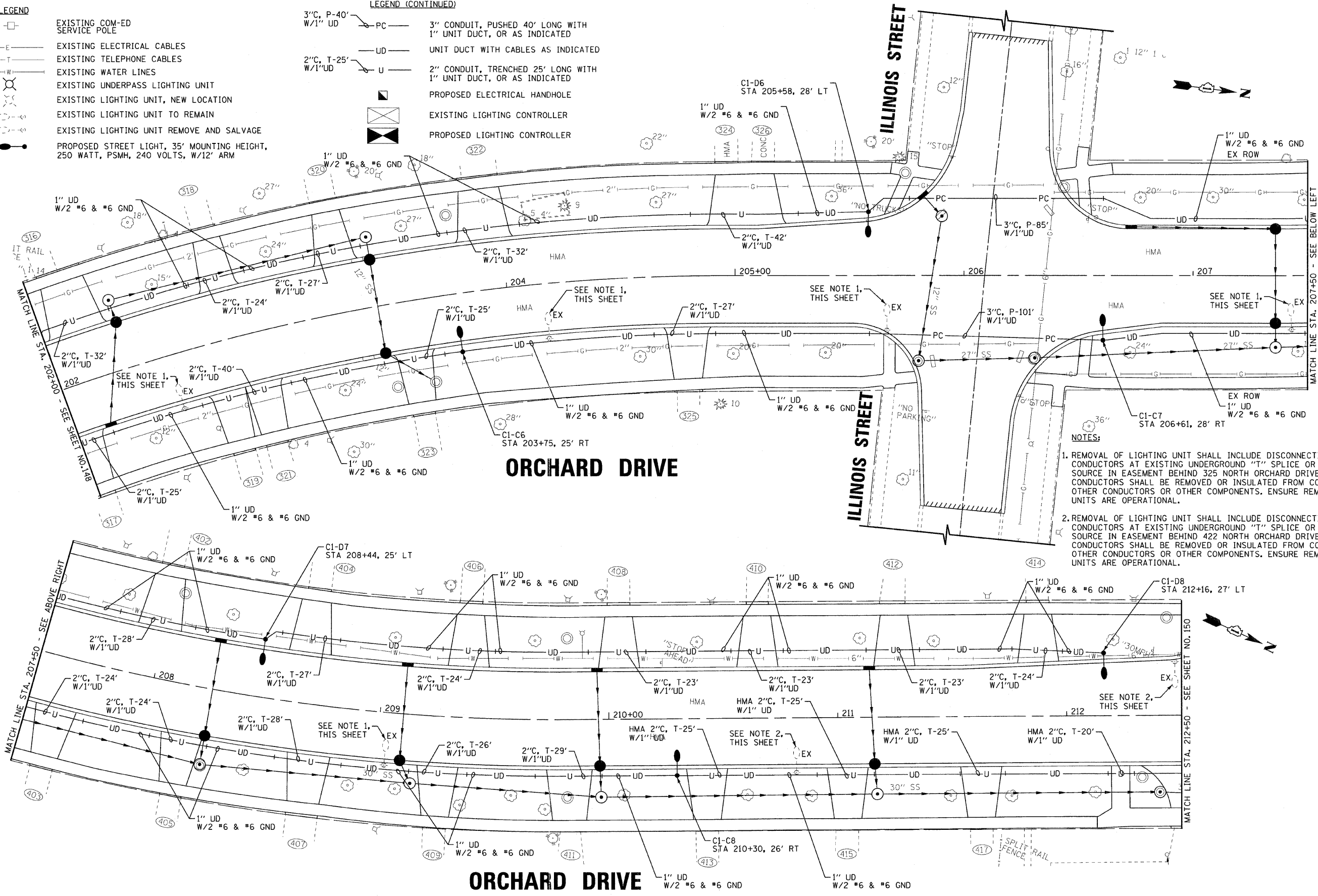
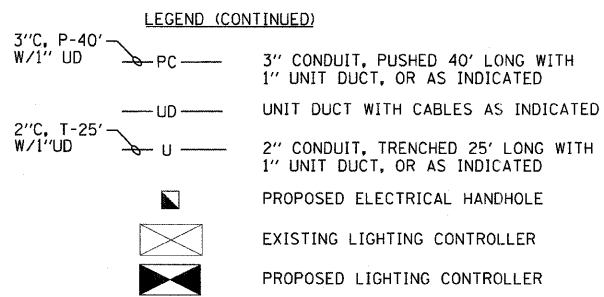
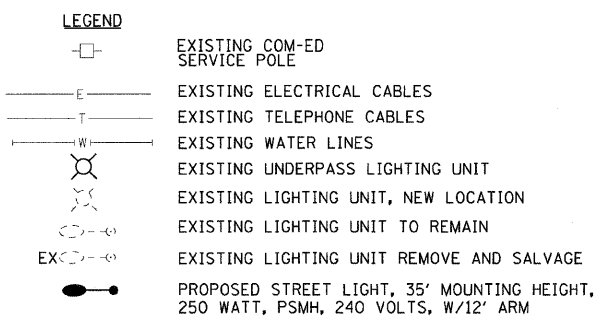


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DATE - 10/24/11	FILE - 060670-PH2-SL3.sht

**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

STREET LIGHTING ORCHARD DRIVE	
SCALE: 1"=20'	STA. 192+00 TO STA. 202+00

F.A.U. RTE. 2836	SECTION 06-00090-00-FP	COUNTY COOK	TOTAL SHEETS 200	SHEET NO. 148
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	CONTRACT NO. 63635
				M-80031661



- NOTES:**
1. REMOVAL OF LIGHTING UNIT SHALL INCLUDE DISCONNECTING CONDUCTORS AT EXISTING UNDERGROUND "T" SPLICE OR AT ELECTRICAL SOURCE IN EASEMENT BEHIND 325 NORTH ORCHARD DRIVE. ABANDONED CONDUCTORS SHALL BE REMOVED OR INSULATED FROM CONTACT WITH OTHER CONDUCTORS OR OTHER COMPONENTS. ENSURE REMAINING LIGHTING UNITS ARE OPERATIONAL.
 2. REMOVAL OF LIGHTING UNIT SHALL INCLUDE DISCONNECTING CONDUCTORS AT EXISTING UNDERGROUND "T" SPLICE OR AT ELECTRICAL SOURCE IN EASEMENT BEHIND 422 NORTH ORCHARD DRIVE. ABANDONED CONDUCTORS SHALL BE REMOVED OR INSULATED FROM CONTACT WITH OTHER CONDUCTORS OR OTHER COMPONENTS. ENSURE REMAINING LIGHTING UNITS ARE OPERATIONAL.

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DATE - 10/24/11	FILE - 060670-PH2-SL4.sht

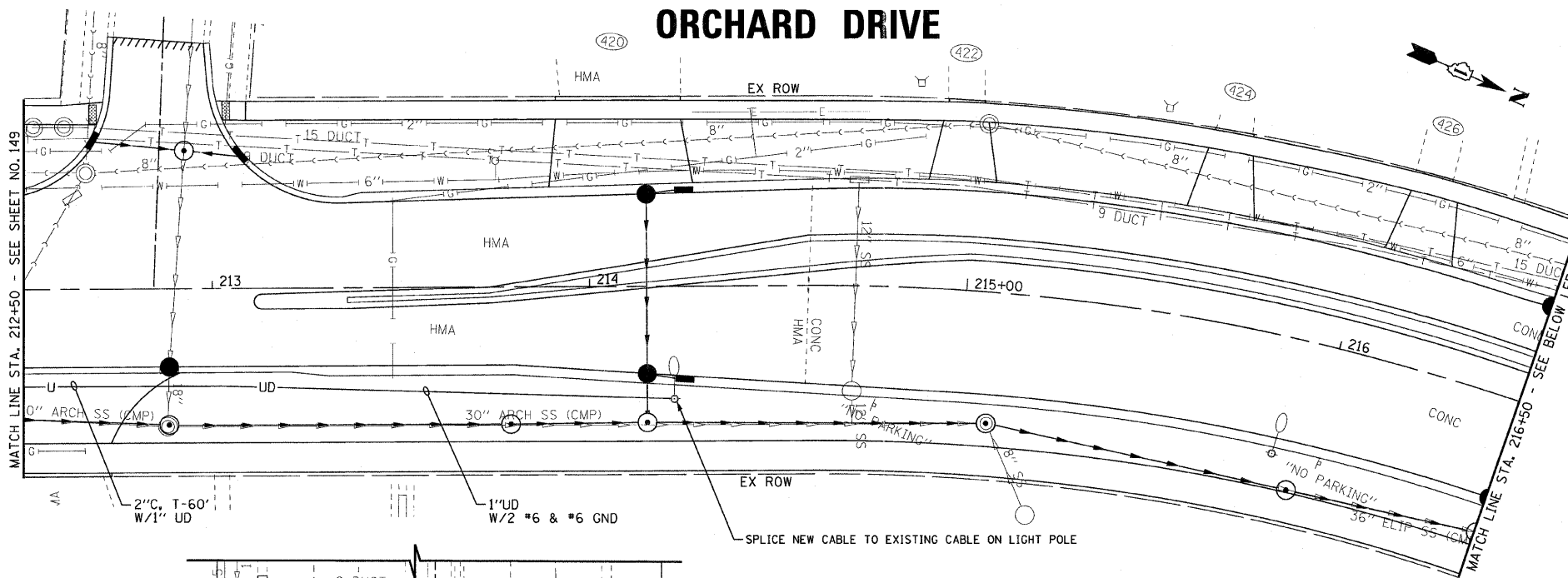
**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

**STREET LIGHTING
ORCHARD DRIVE**

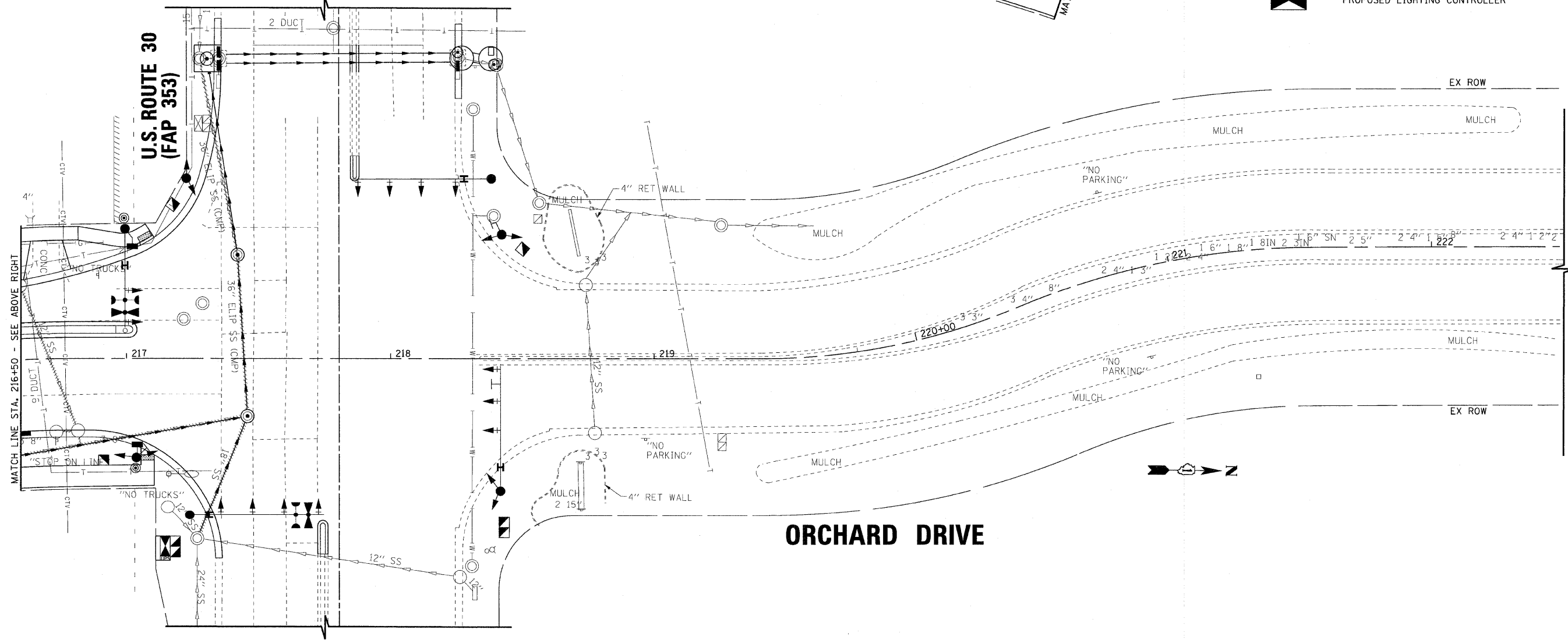
SCALE: 1" = 20'
STA. 202+00 TO STA. 212+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	149
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635 N-800316611	

ORCHARD DRIVE



- LEGEND**
- EXISTING COM-ED SERVICE POLE
 - EXISTING ELECTRICAL CABLES
 - EXISTING TELEPHONE CABLES
 - EXISTING WATER LINES
 - EXISTING UNDERPASS LIGHTING UNIT
 - EXISTING LIGHTING UNIT TO REMAIN
 - EXISTING LIGHTING UNIT REMOVE AND SALVAGE
 - PROPOSED STREET LIGHT, 35' MOUNTING HEIGHT, 250 WATT, PSMH, 240 VOLTS, W/12' ARM
 - 3" CONDUIT, PUSHED 40' LONG WITH 1" UNIT DUCT, OR AS INDICATED
 - UNIT DUCT WITH CABLES AS INDICATED
 - 2" CONDUIT, TRENCHED 25' LONG WITH 1" UNIT DUCT, OR AS INDICATED
 - PROPOSED ELECTRICAL HANDHOLE
 - EXISTING LIGHTING CONTROLLER
 - PROPOSED LIGHTING CONTROLLER



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DATE - 10/24/11	FILE - 060670-PH2-SL5.sht

STATE OF ILLINOIS ORCHARD DRIVE IMPROVEMENTS

STREET LIGHTING ORCHARD DRIVE

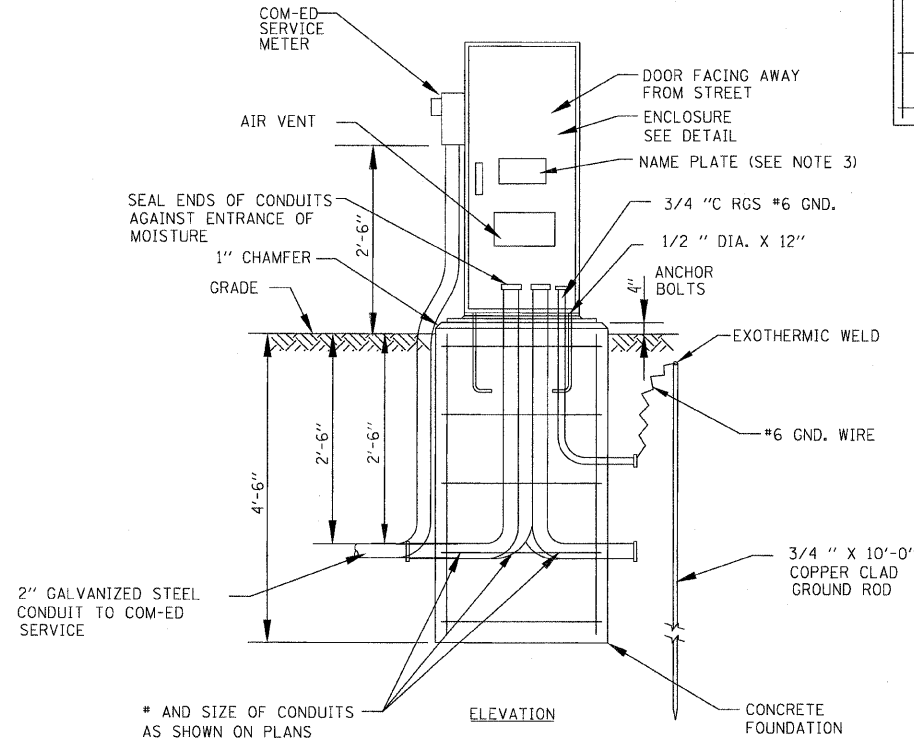
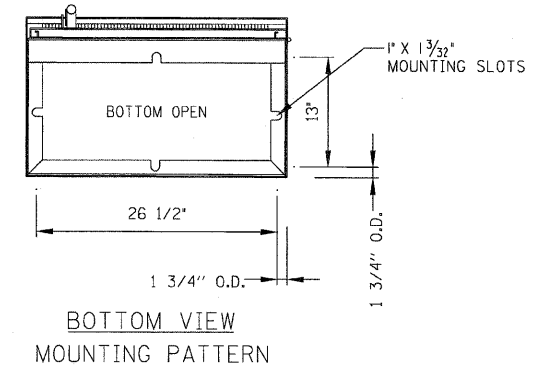
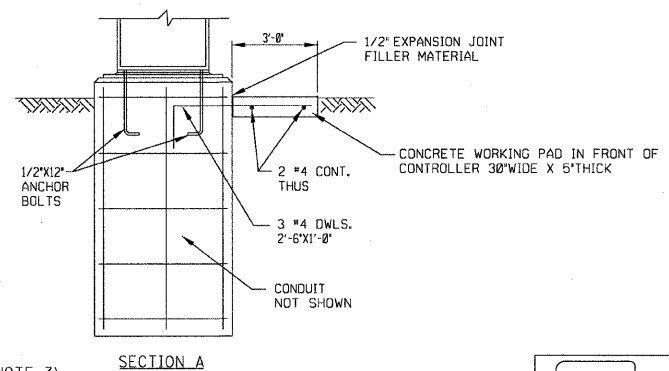
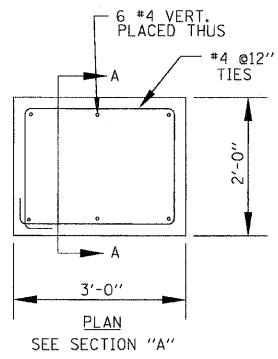
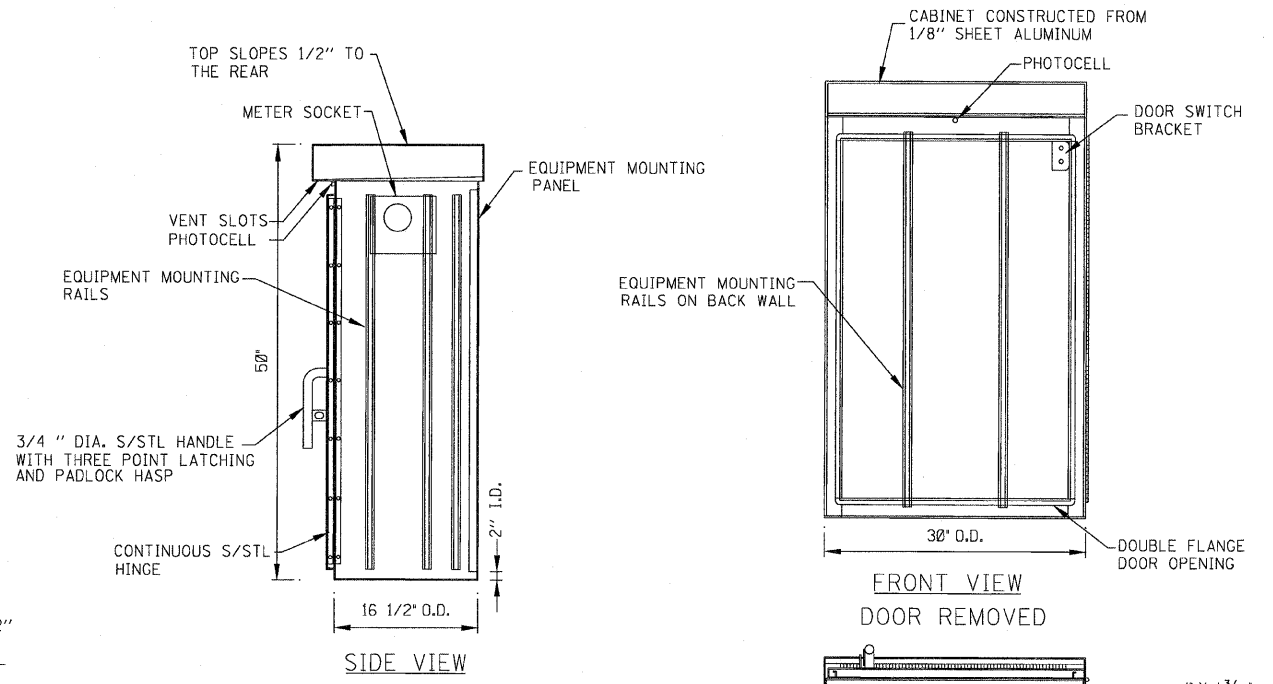
SCALE: 1"=20' STA. 212+50 TO STA. 222+48

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	150
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635	
			W-80031661	

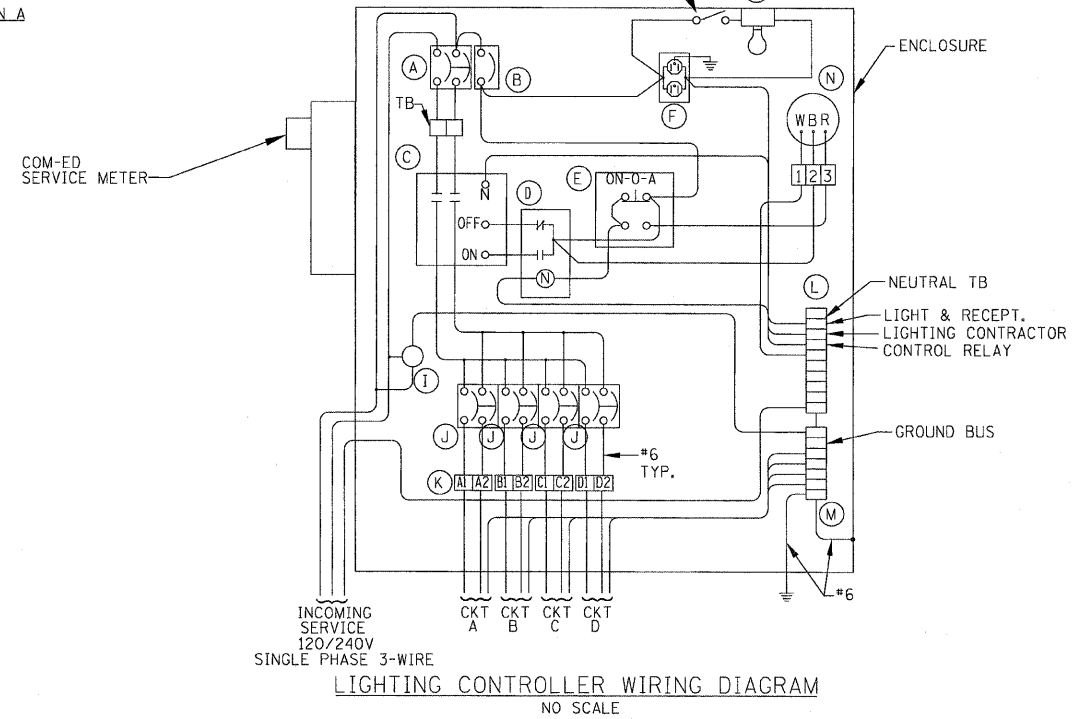
NOTES

- CABINET SHALL BE FABRICATED FROM 0.125-INCH SHEET ALUMINUM #3003H14, FORMED AND ARC WELDED ASSEMBLY WITH NEMA 3R RATING.
- ALL SCREWS AND HARDWARE SHALL BE PLATED, GALVANIZED, OR MADE OF BRASS, ALUMINUM OR STAINLESS STEEL.
- NAME PLATE SHALL HAVE ENGRAVED 0.75-INCH HIGH LETTERS FILLED IN BLACK: "STREET LIGHTING".
- CONNECTION OF SURGE ARRESTOR TO LINE SIDE OF MAIN CIRCUIT BREAKER SHALL NOT BE "DOUBLE LUGGED".
- ELECTRIC UTILITY METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET AS SHOWN ON THE PANEL LAYOUT DIAGRAM.
- THE COMPLETED CONTROLLER SHALL BE U.L. LISTED AS AN INDUSTRIAL CONTROL PANEL UNDER UL508, AND SHOULD BE SERVICE ENTRANCE RATED.
- METAL MOUNTING PANEL SHALL BE #10 GAUGE GALVANIZED SHEET STEEL FLANGED BACK 0.75-INCHES I.D. ON 4 SIDES.
- CIRCUIT BREAKERS AND CONTACTORS AND OTHER COMPONENTS SHALL BE MOUNTED ON 0.125-INCH THICK GLASTIC INSULATION BACK PANEL.
- ALL DEVICES SHALL BE FRONT REMOVABLE.
- BUS BAR SHALL HAVE 22 LUG TERMINALS SIZED TO ACCOMMODATE REQUIRED WIRE SIZES. NEUTRAL BUS SHALL BE PAINTED WHITE. GROUND BUS SHALL BE PAINTED GREEN.
- ALL LUGS SHALL BE COPPER SCREWS AND CONNECTORS, SPRING HELD.
- ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE CENTIGRADE.
- ALL CONTROL WIRING SHALL BE 600V MACHINE TOOL WIRE TYPE MTW.
- ALL POWER WIRING SHALL BE 600V TYPE RHH-/RHW.
- A LAMINATED COPY OF THE CIRCUIT SCHEMATIC DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER.
- ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE #12 AWG STRANDED UNLESS OTHERWISE INDICATED.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

ITEM	QTY.	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 2-POLE, 240 V. SINGLE-PHASE, 100A., BOLT-ON TYPE, TRIP INTERRUPTING RATING OF 22,000 RMS SYMMETRICAL AMPERES AT 240 V.
B	1	BRANCH CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC 1-POLE, 120 V., 20A, BOLT-ON TYPE, TRIP INTERRUPTING RATING OF 10,000 RMS SYMMETRICAL AMPERES AT 120 V.
C	1	LIGHTING CONTRACTOR MECHANICALLY HELD, CUTLER HAMMER A202K3B-M 100A. 2-POLE, 600 V. WITH 120V COIL.
D	1	CONTROL RELAY CUTLER HAMMER D3PR2 RATED 12 A. AT 120 VAC
E	1	ON-OFF-AUTO 3-POSITION SELECTOR SWITCH GE CR104P HEAVY DUTY SWITCH, RATED FOR 10 A. AT 600 VAC.
F	1	GFCI RECEPTACLE, 120 V., 20 A. SPEC. GRADE, NEMA CONFIG. 5-20R.
G	1	SPDT MOMENTARY NORMALLY OPEN, NORMALLY CLOSED PUSH BUTTON SWITCH CUTLER HAMMER B4F1063 RATED 15 A. AT 120 V.
H	1	60 WATT LIGHT FIXTURE, VAPOR TIGHT, WITH GLOBE, GUARD AND MOUNTING BOX.
I	1	SECONDARY SURGE ARRESTOR SQUARE D SDSA1175, 175 VAC PHASE-TO-GROUND MAXIMUM.
J	1	BRANCH CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 2-POLE, 240 V. SINGLE-PHASE, 30A. TRIP INTERRUPTING RATING 10,000 RMS SYMMETRICAL AMPERES AT 240 V.
K	1	TERMINAL BLOCK RATED 600 V., 85 A.
L	1	COPPER NEUTRAL BUS.
M	1	COPPER GROUND BUS.
N	1	PHOTOCELL-120V, BUTTON STYLE, DELAY TYPE, SPST



LIGHTING CONTROLLER AND FOUNDATION DETAIL
NO SCALE



LIGHTING CONTROLLER WIRING DIAGRAM
NO SCALE

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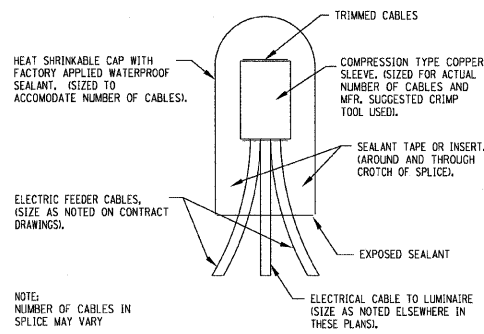
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**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

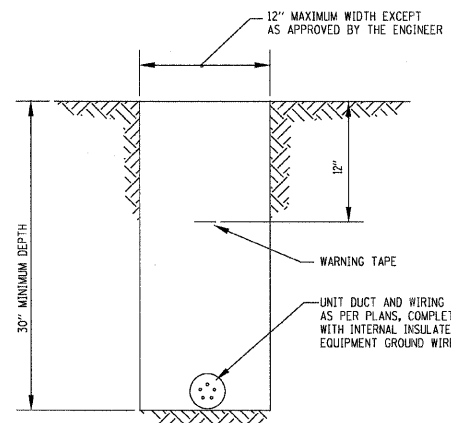
**STREET LIGHTING DETAILS
LIGHTING CONTROLLER**

SCALE: NONE STA. TO STA.

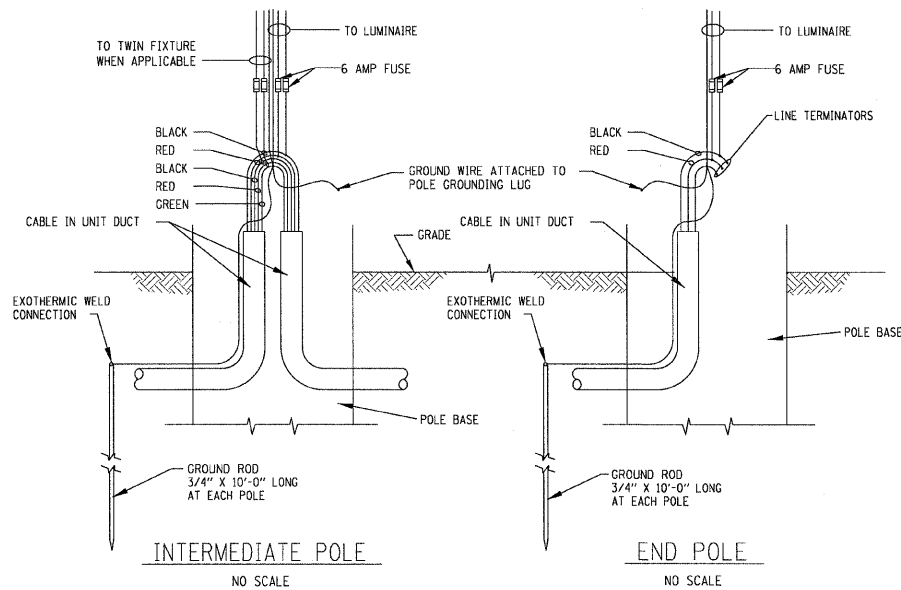
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2836	06-00090-00-FP	COOK	200	151
CONTRACT NO. 63635			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT N-8003166U	



SPLICING ELECTRICAL CABLES
BASIC MATERIALS AND METHODS
 NO SCALE

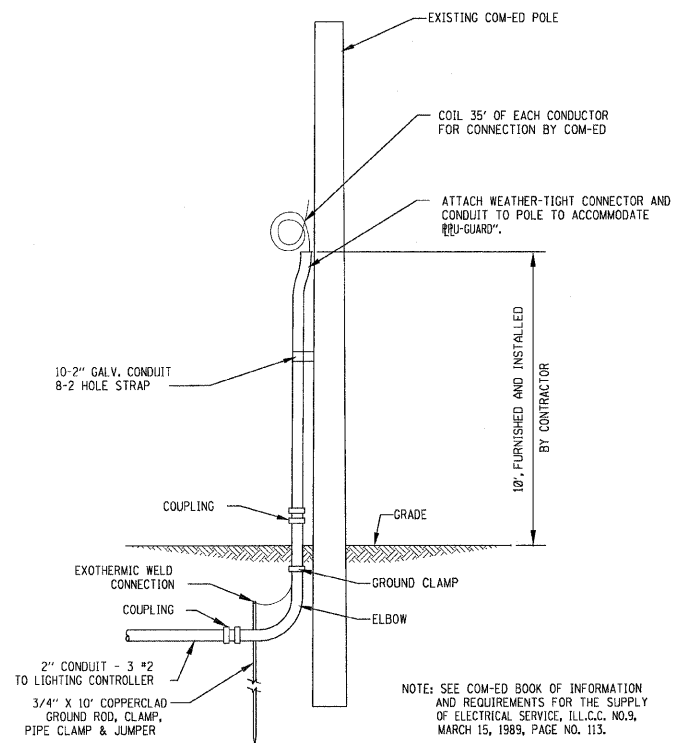


TYPICAL WIRING IN TRENCH DETAIL
 NO SCALE

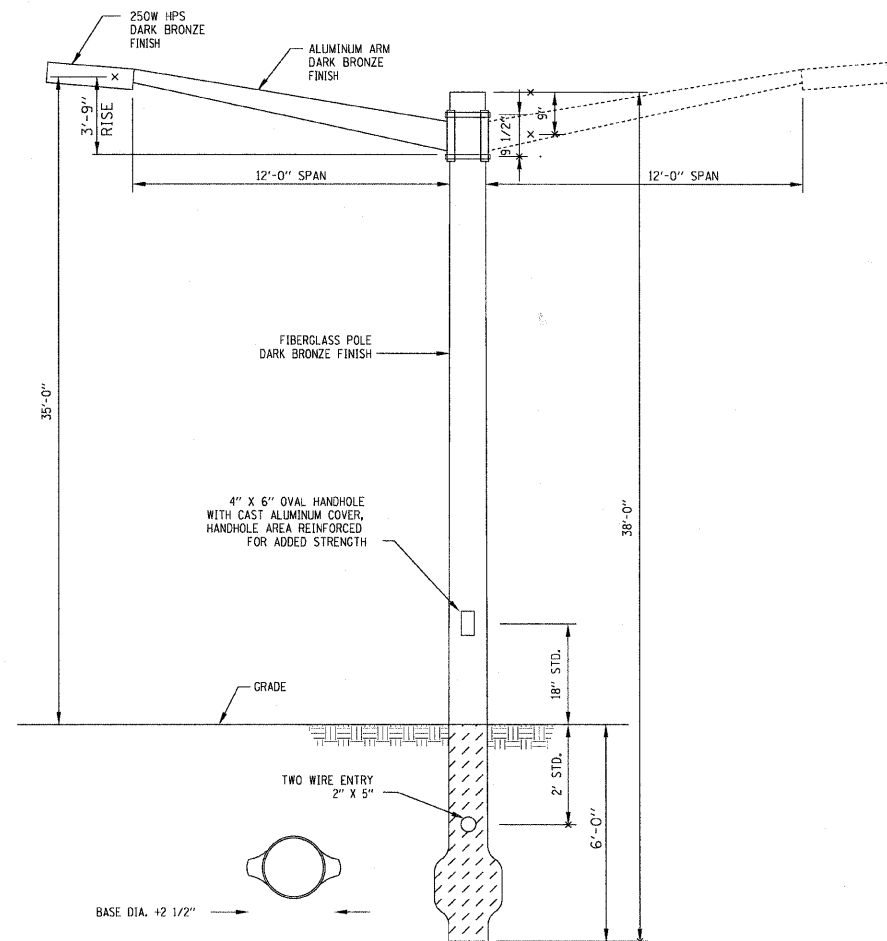


INTERMEDIATE POLE
 NO SCALE

END POLE
 NO SCALE



COM-ED OVERHEAD CONNECTION POLE
 NO SCALE



STREET LIGHT POLE TWIN & SINGLE
 NO SCALE

NOTE:
 INSTALL LIGHT POLE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE 6 INCHES OF COARSE GRAVEL IN BOTTOM OF AUGERED HOLE FOR DRAINAGE AND SUPPORT, AUGER HOLE LARGE ENOUGH TO ACCOMMODATE THE BUTT OF THE POLE, BACKFILL HOLE AROUND POLE WITH CRUSHED LIME STONE SCREENINGS COMPACTED BY MACHINE OR HAND TAMPING IN 6-INCH LAYERS, ADD 1/2 BAG OF DRY CEMENT TO TAMPING MIXTURE AROUND POLE IF SOIL CONDITIONS REQUIRE, PLUMB AND ALIGN POLE IN A VERTICAL POSITION ONCE POLE IS SELF-SUPPORTING.

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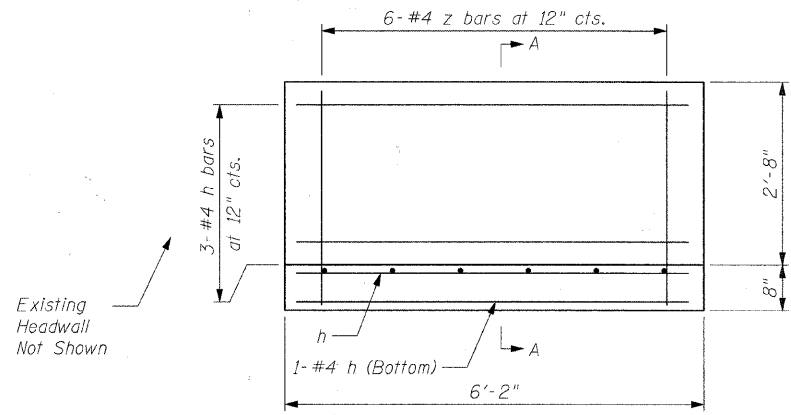
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STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS

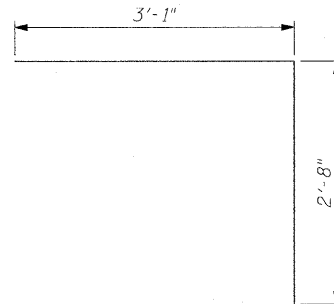
STREET LIGHTING DETAILS

SCALE: _____ STA. _____ TO STA. _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	152
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT	M-8003166U



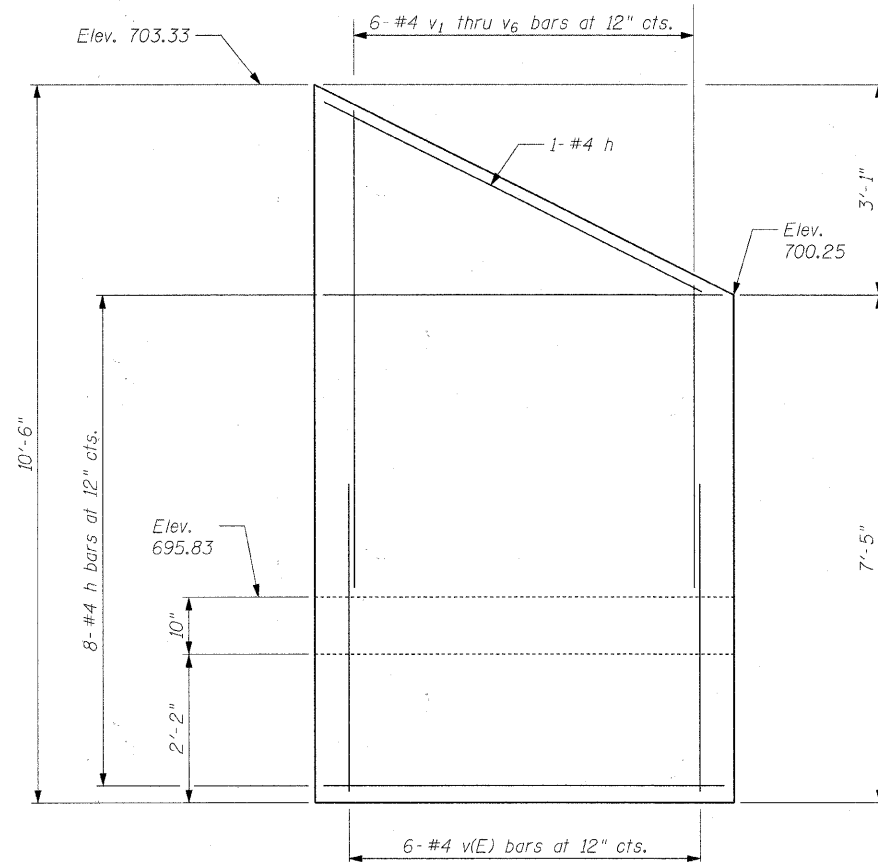
PLAN
SCALE: 3/4" = 1'-0"



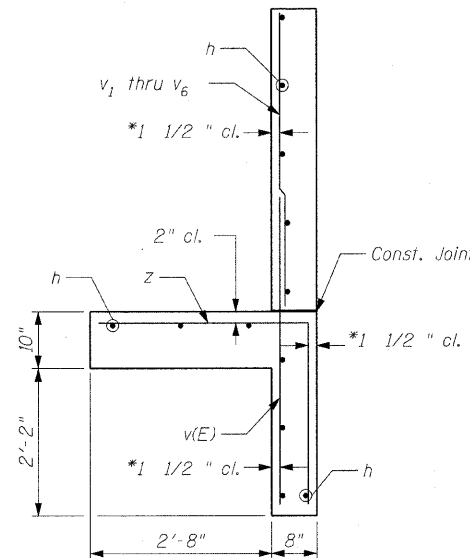
BAR Z

DESIGN STRESSES

$f_y = 60,000$ psi
 $f'_c = 3,500$ psi
 Max. soil pressure under footing = 2,850 psi

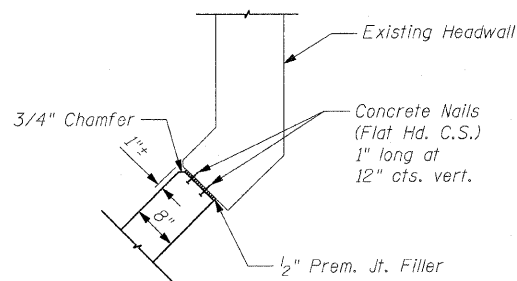


ELEVATION
SCALE: 3/4" = 1'-0"



SECTION A-A
SCALE: 3/4" = 1'-0"

* v bars shall not be placed more than 1 1/2" cl. from back face of wingwall.

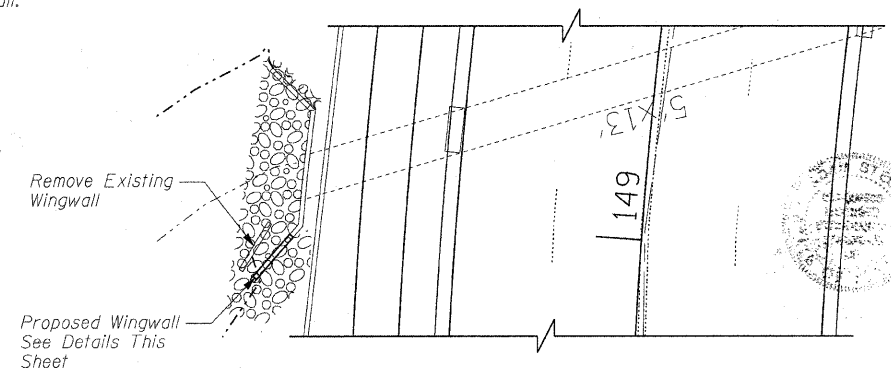


CORNER DETAIL
SCALE: 3/4" = 1'-0"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	13	#4	5'-11"	—
v(E)	6	#4	4'-6"	—
v1	1	#4	4'-6"	—
v2	1	#4	5'-0"	—
v3	1	#4	5'-6"	—
v4	1	#4	6'-0"	—
v5	1	#4	6'-6"	—
v6	1	#4	7'-0"	—
z	6	#4	5'-9"	L
Concrete Removal *				Cu. Yd. 2
Structure Excavation				Cu. Yd. 11
Concrete Structures				Cu. Yd. 2
Reinforcement Bars				Pound 75
Reinforcement Bars, Epoxy Coated				Pound 20

* Subject to construction variation



SITE PLAN
SCALE: 1" = 10'-0"

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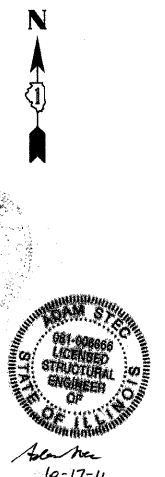
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DRAWN - CJC	REVISED -
CHECKED - CAB	REVISED -
DATE - 10/24/11	FILE - 060670-PH2-ST2.sht

**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

WINGWALL REPLACEMENT

SCALE: NONE STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	153
CONTRACT NO. 63635			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-8003661	



NOTES

GENERAL NOTES

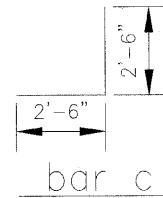
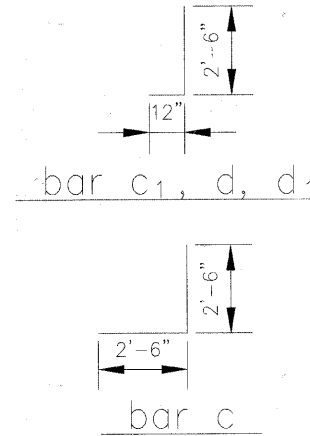
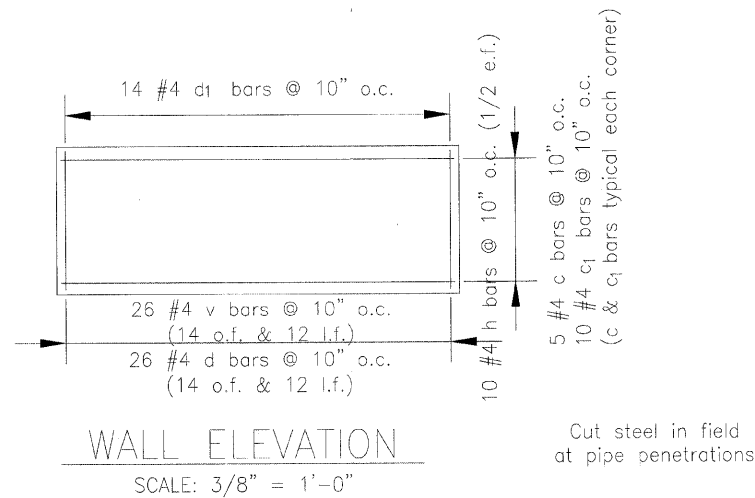
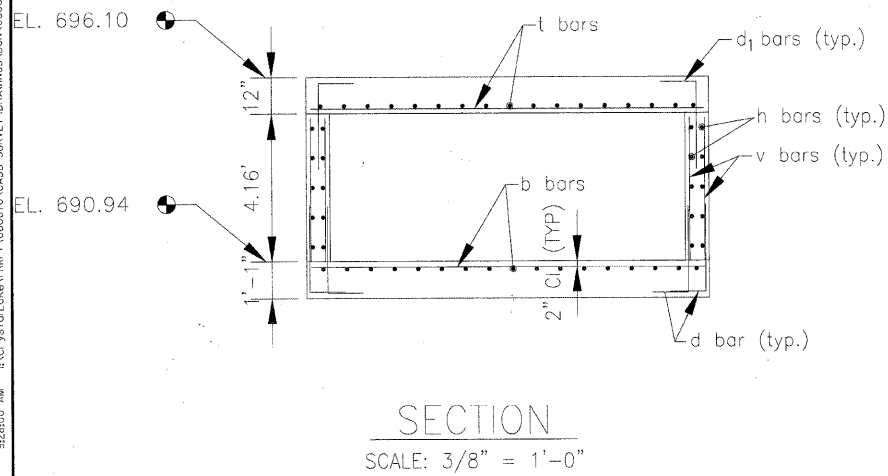
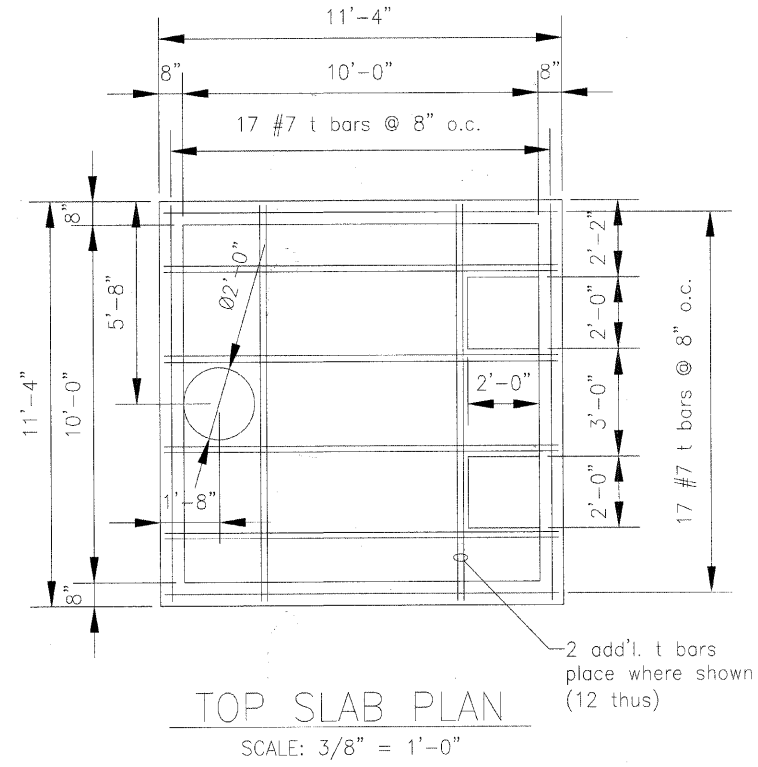
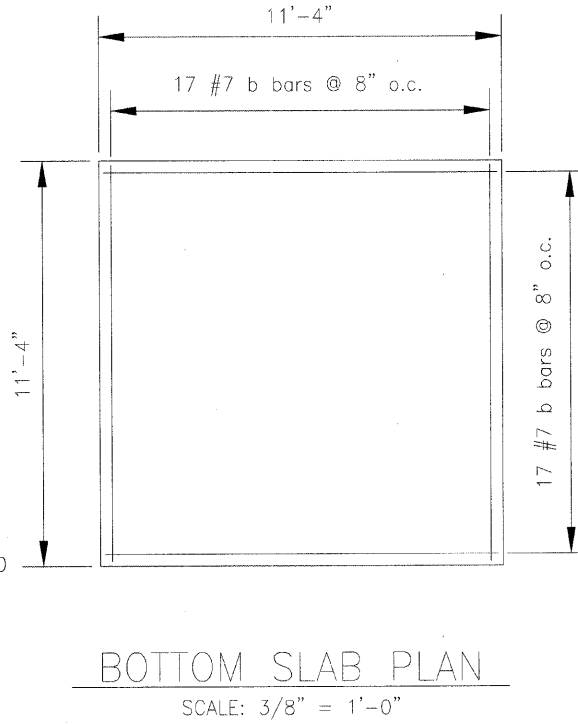
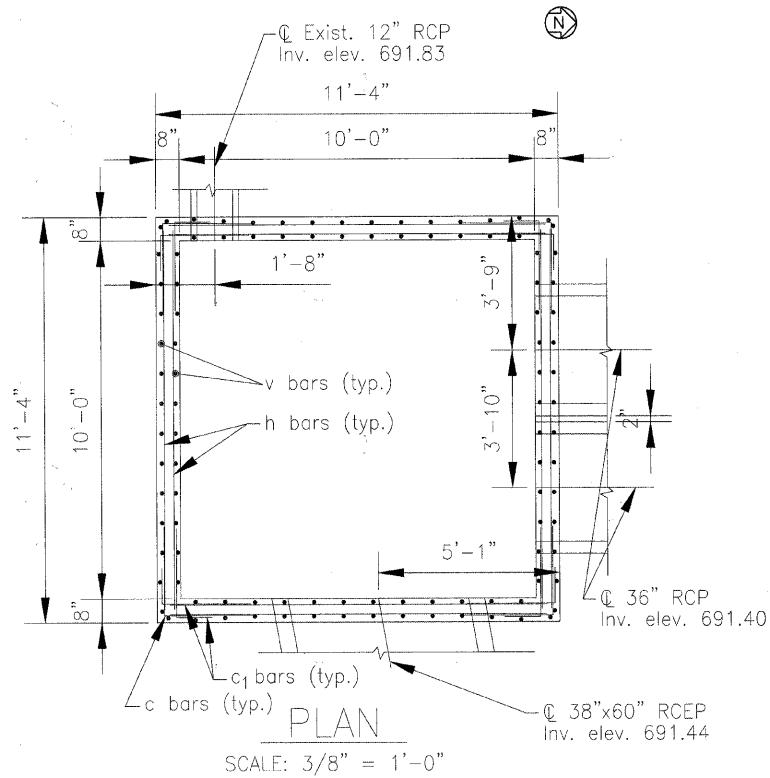
- DESIGNED IN ACCORDANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DATED 2002. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2007 AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2011.
- CONCRETE CLASS SI ($f'_c = 3,500$ PSI MINIMUM) EXCEPT WHERE SHOWN ON THE DRAWINGS.
- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706, GR. 60.
- REINFORCEMENT BENDING DETAILS SHALL BE IN ACCORDANCE WITH THE DETAILS AND DETAILING OF CONCRETE REINFORCEMENT, ACT 315 LATEST EDITION.

- NO CONSTRUCTION JOINTS EXCEPT THOSE SHOWN ON THE PLANS WILL BE ALLOWED WITHOUT APPROVAL OF ENGINEER.

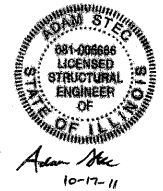
CONSTRUCTION SPECIFICATIONS

IDOT: "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2007 AND "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2011 BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

BILL OF MATERIAL					
Bar	No.	Size	Length	Shape	
b	34	#7	11'-1"	---	
c	20	#4	5'-0"	L	
c1	40	#4	3'-6"	L	
d	104	#4	3'-6"	L	
d1	56	#4	3'-6"	L	
h	40	#4	11'-1"	---	
v	104	#4	3'-10"	---	
t	46	#7	11'-1"	---	
Reinforcement Bars				Pound	2930
Concrete Structures				Cu. Yd.	14



Cut steel in field at pipe penetrations



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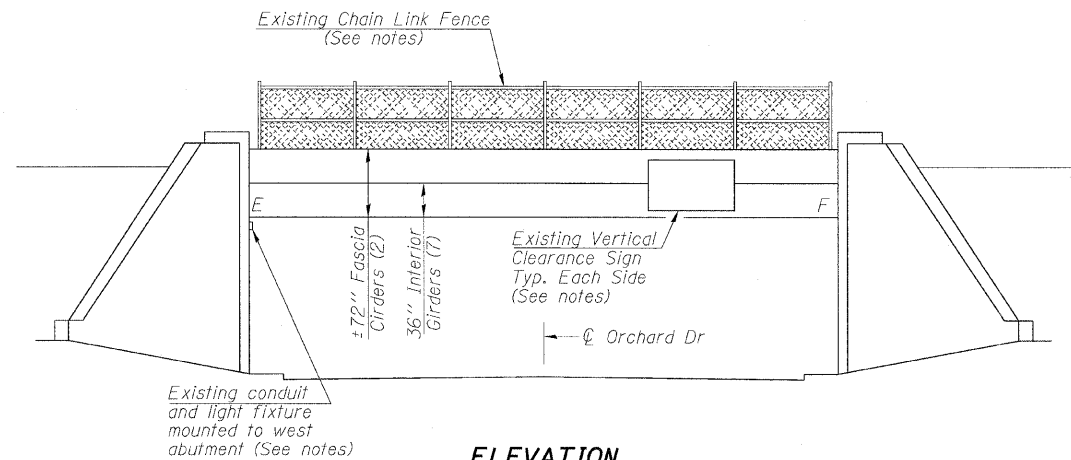
**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

SCALE: AS NOTED

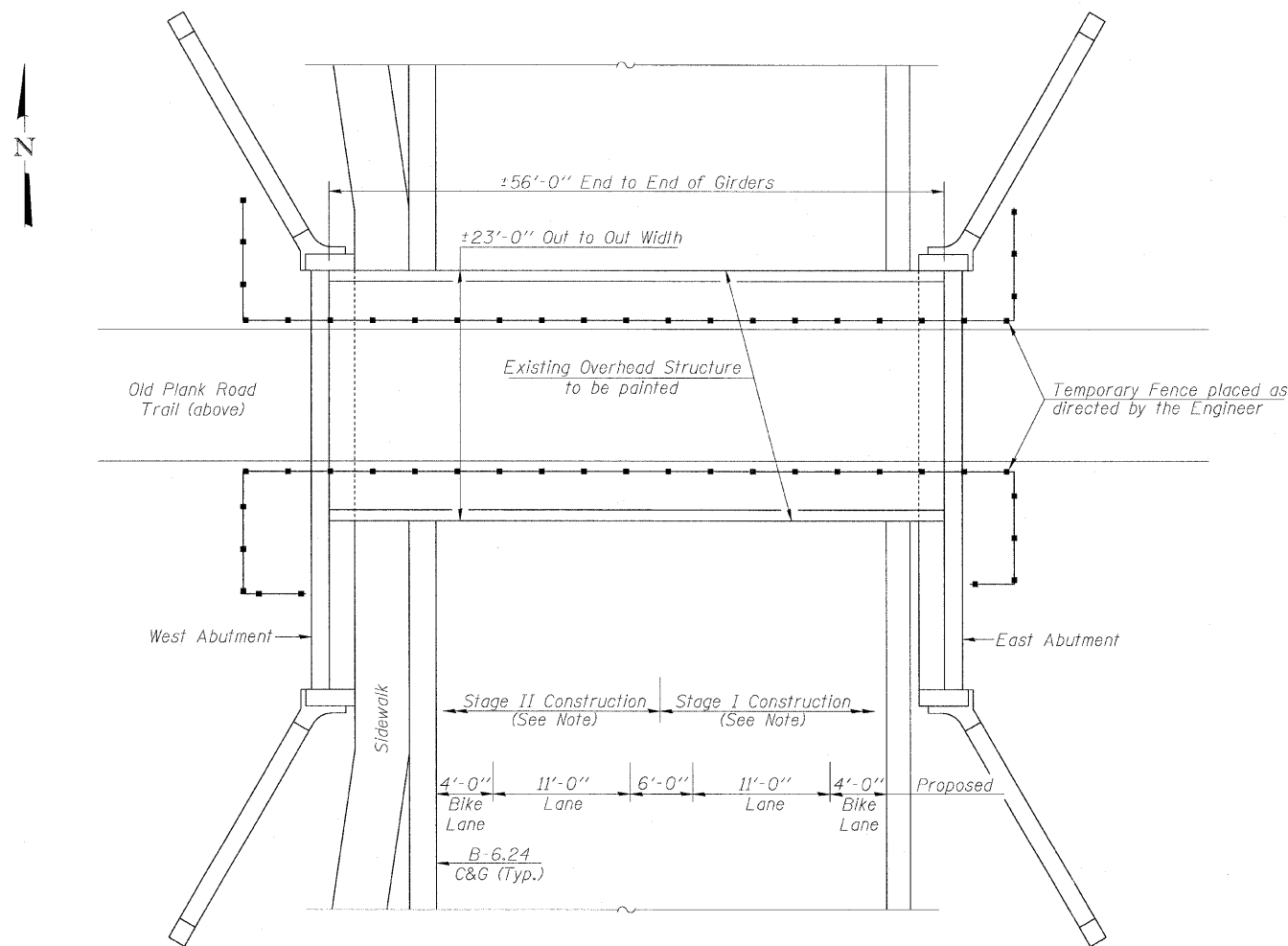
STA. TO STA.

JUNCTION CHAMBER

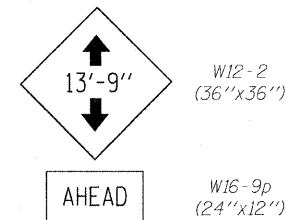
SECTION	COUNTY	TOTAL SHEET NO.
2830	COOK	200 154
CONTRACT NO. 63635		



ELEVATION



PLAN



TEMPORARY WARNING SIGN

To be left in place while existing bridge-mounted signs are removed for painting

NOTES

- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All existing steel shall be cleaned per Near White Blast Cleaning - SSPC-SP10. All existing steel shall be painted according to the requirements of Paint System 1 - OZ/E/U. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Interstate Green (Munsell No 7.5G 4/8).
- Existing Light Fixture and Conduit mounted to underside of bridge are not expected to interfere with the Painting work. However, if one or both of these do need to be relocated during Painting, this work shall be coordinated with the rest of the Roadway Lighting work, and the Engineer shall be notified. Cost of removal, storage, and reinstallation of the Light Fixture and Conduit will not be measured for payment, but shall be included with the cost of Cleaning and Painting Existing Steel Structures.
- Existing Vertical Clearance Signs shall be removed prior to commencement of Painting work. Place one temporary warning sign in each direction (2 total) in advance of the bridge, at the nearest intersecting road or wide point in the road at which a vehicle can detour or turn around. Both bridge-mounted signs shall be re-installed in their existing locations after completion of the Painting work. Cost included with Cleaning and Painting Steel Bridge No. 1.
- The existing chain link fence is welded to the top flanges of the fascia girders, and shall be left in place during construction. Fence components shall be kept relatively free of paint, and any parts of the existing fence damaged by the Contractor's operations shall be repaired or replaced and re-painted at the Contractor's expense, and as directed by the Engineer.
- If the Contractor chooses to temporarily move sections of the chain link for better access to painted surfaces, any open sections shall be protected or replaced during non-working hours. Cost of any necessary removal and replacement, repairs or repainting of fence shall be included with Cleaning and Painting Steel Bridge No. 1.
- Painting work shall be completed in two stages, according to the sequence shown on the Maintenance of Traffic drawings.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Cleaning and Painting Steel Bridge No. 1	L Sum	1
Containment and Disposal of Lead Paint Cleaning Residues No. 1	L Sum	1
Temporary Fence	Foot	250

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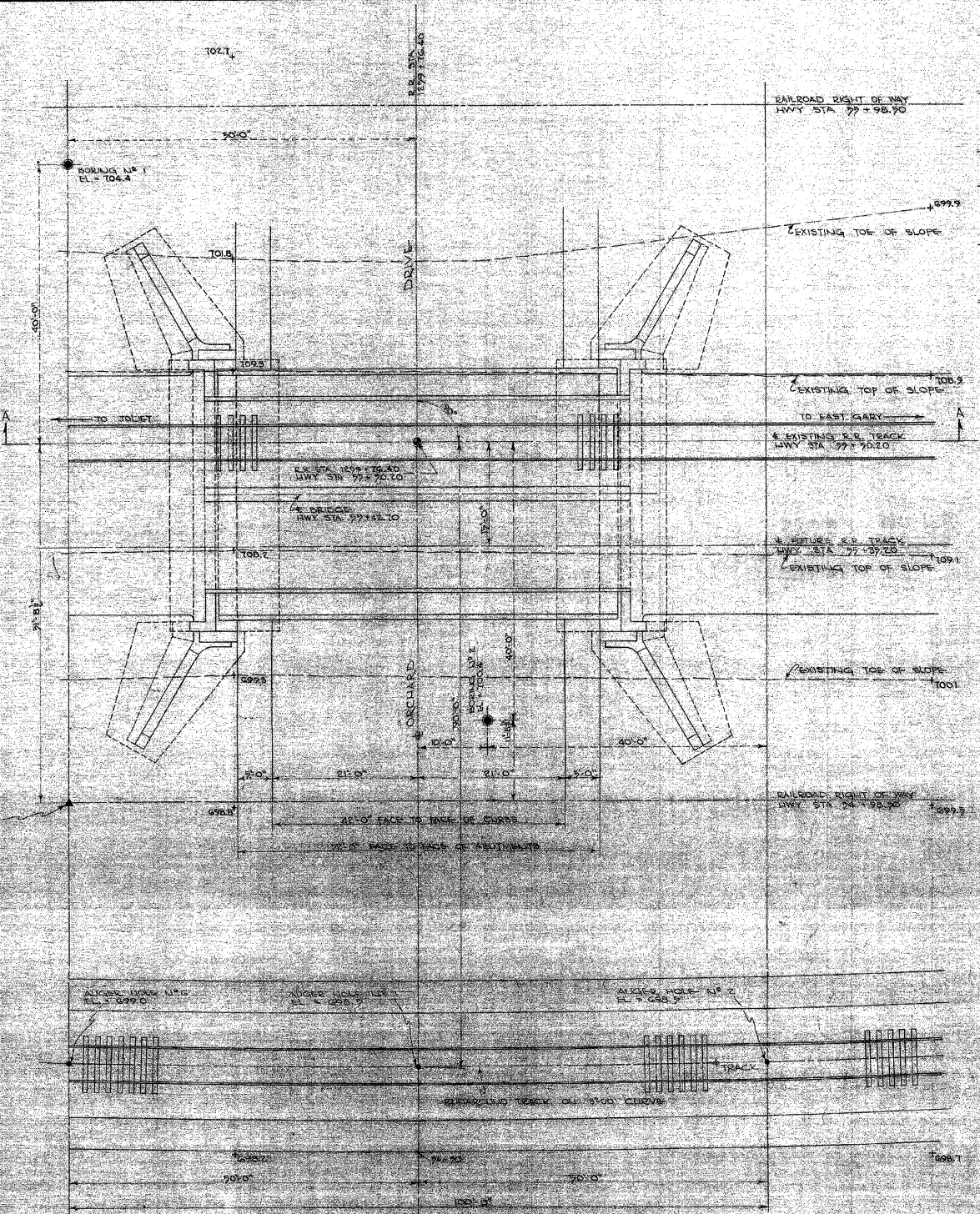


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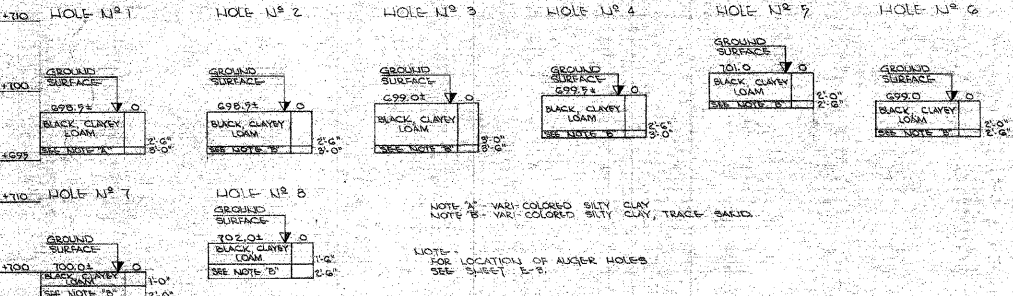
**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

GENERAL PLAN OLD PLANK TRAIL BRIDGE OVER ORCHARD DRIVE	
SCALE: 1"=20'	STA. TO STA.

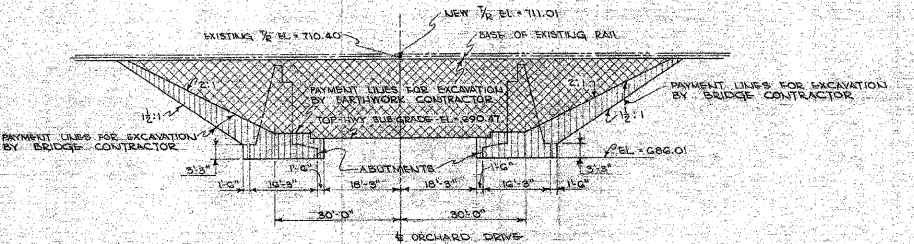
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FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635 M-80031661	



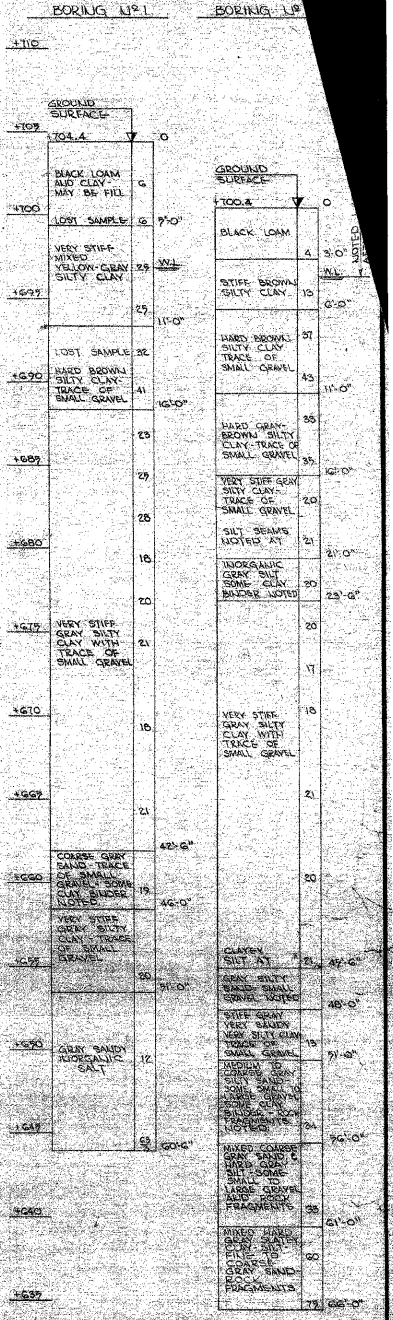
MAIN VIEW
SCALE: 1/4"=1'-0"



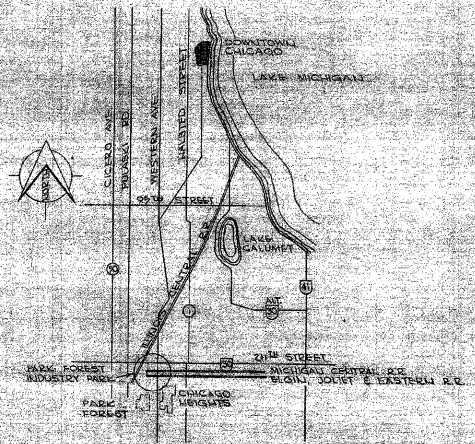
AUGER HOLES



SECTION A-A
SCALE: 1/4"=1'-0"



SOIL BORINGS



LOCATION PLAN
NOT TO SCALE

- GENERAL NOTES:
1. SUPERELEVATION OF RAILS TO BE DETERMINED BY RAILROAD.
 2. ALL BRICKS FOR BRIDGE STRUCTURE IS TO BE BY BRIDGE CONTRACTOR.
 3. ALL TOPSOIL TO BE STRIPPED WITHIN RAILROAD CORROD WIDTH.
 4. ALL FILL TO BE COMPACTED TO 95% MAXIMUM DENSITY PER MODIFIED PROCTOR TEST.

NO.	DATE	DESCRIPTION	BY

SITE PLAN & SECTIONS

ORCHARD DRIVE UNDERPASS
MICHIGAN CENTRAL R.R.
 PARK FOREST INDUSTRY PARK
 PARK FOREST ILLINOIS

A. EPSTEIN AND SONS, INC.
 ENGINEERS
 2011 WEST PERSHING ROAD
 CHICAGO 9 ILLINOIS

JOB NO: 57-1628
 DATE: MAY 15, 1959

PROJECT ENGINEER: S.E.P.
 ARCHITECT: M.M.V. ENGINEER
 DRAWN BY: C.R.W.

SHEET NUMBER: **E-2**

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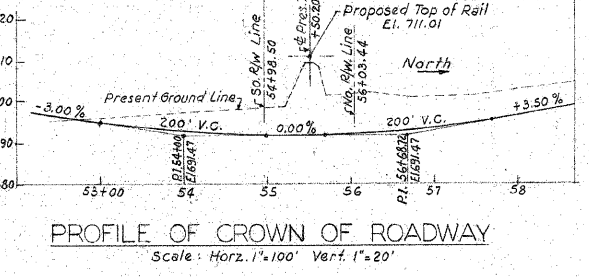
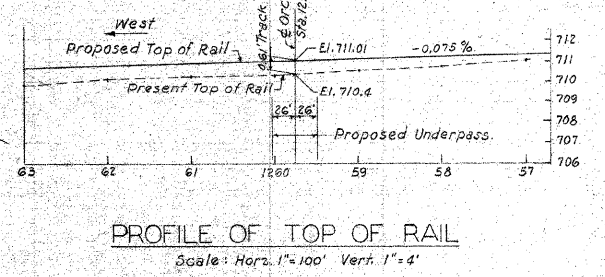
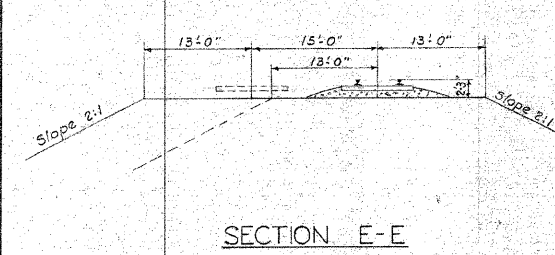
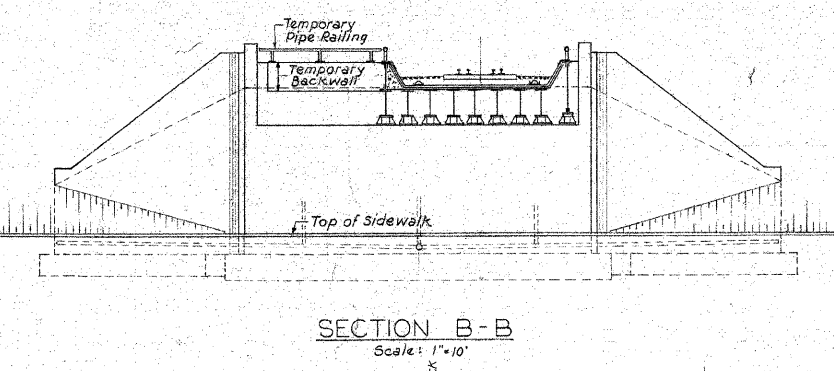
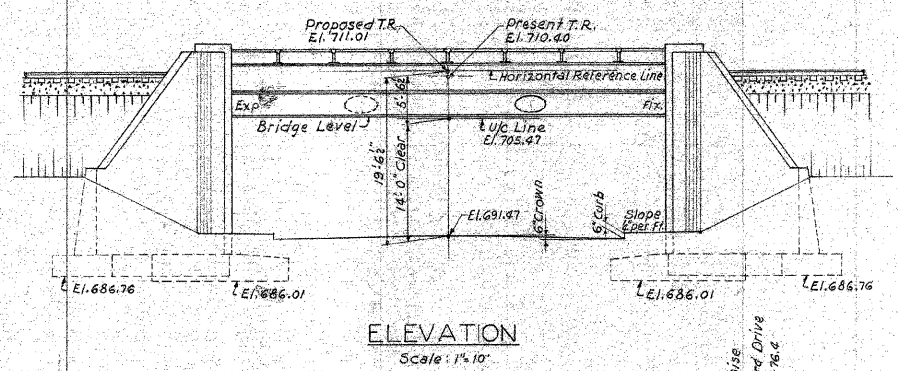
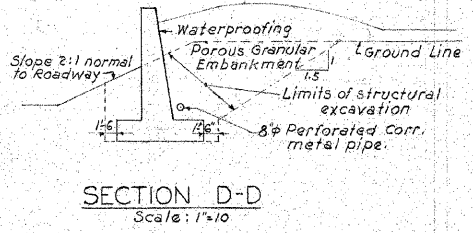
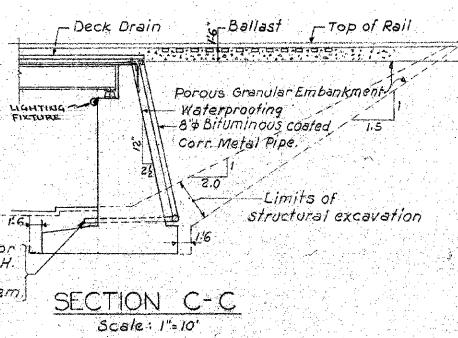
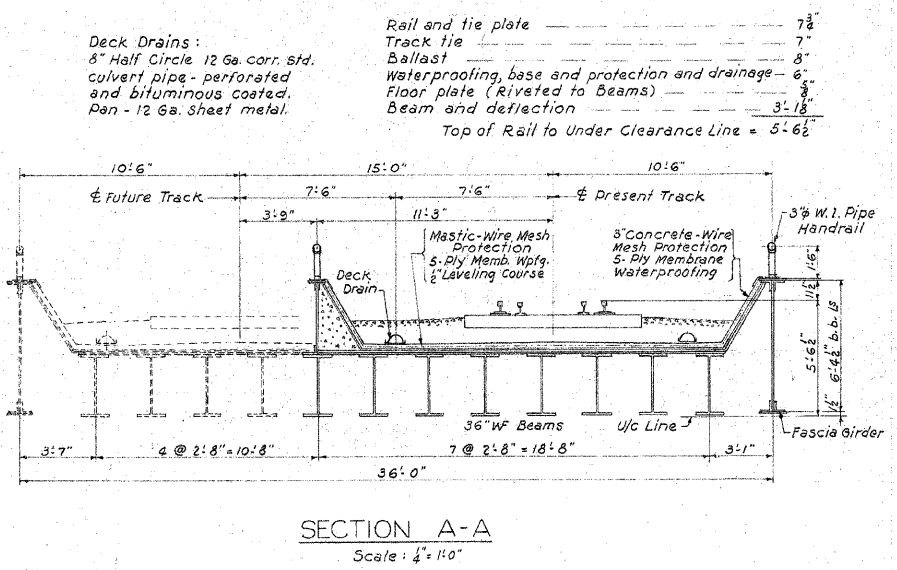
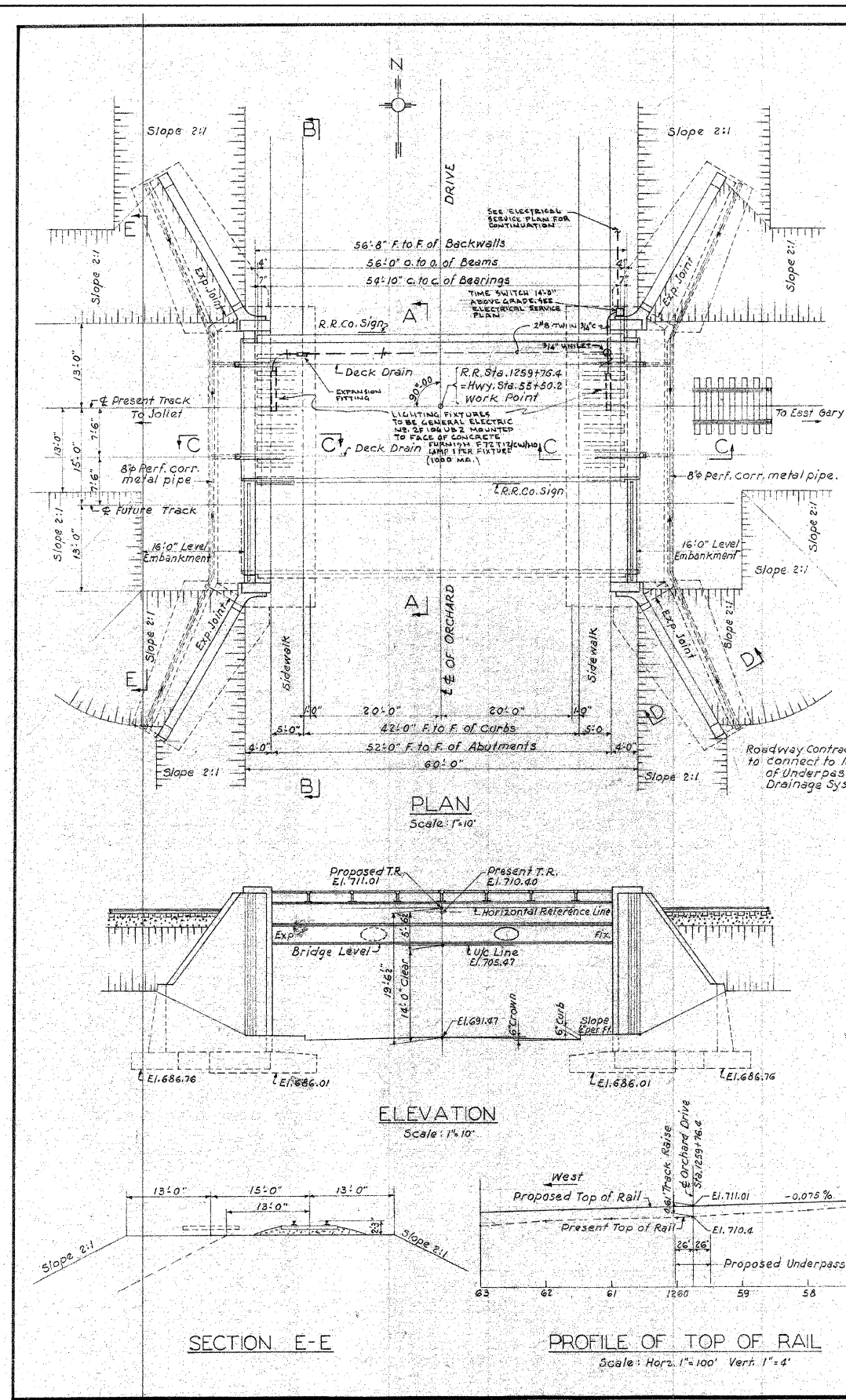
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VILLAGE OF PARK FOREST, ILLINOIS
ORCHARD DRIVE IMPROVEMENTS

EXISTING STRUCTURAL PLANS
FOR INFORMATION ONLY

SCALE: NONE STA. TO STA.

F.A.U. RTE. 2836	SECTION 06-0090-00-FP	COUNTY COOK	TOTAL SHEETS 200	SHEET NO. 156
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 63635	
FED. AID PROJECT			M-80031661	



Deck Drains :
 8" Half Circle 12 Ga. corr. std.
 culvert pipe - perforated
 and bituminous coated.
 Pen - 12 Ga. Sheet metal.

Rail and tie plate ----- 7 1/2"
 Track tie ----- 7"
 Ballast ----- 8"
 Waterproofing, base and protection and drainage ----- 6"
 Floor plate (Riveted to Beams) ----- 3"
 Beam and deflection ----- 18"

Top of Rail to Under Clearance Line = 5'-6 1/2"

TOTAL ESTIMATED QUANTITIES				
BID ITEMS	UNIT	SUB-STRUCTURE	SUPER-STRUCTURE	TOTAL
By Bridge Contractor				
Structural excavation - Class A	C.Y.	1,075		1,075
Concrete - Class "X"	C.Y.	825		825
Reinforcement Bars	Lb.	35,460		35,460
Structural carbon steel & Steel castings	Lb.		233,500	233,500
Deck waterproofing and protection	S.F.		1,950	1,950
Metal deck drains	L.F.		126	126
Wrought iron pipe handrail	L.F.		131	131
Bituminous coated corr. metal pipe	L.F.		134	134
Perforated corrugated metal pipe	L.F.		175	175
Porous granular embankment	C.Y.		1,400	1,400
Electric Lighting System Complete	EACH			1
Name Plates	EACH			2

GENERAL NOTES

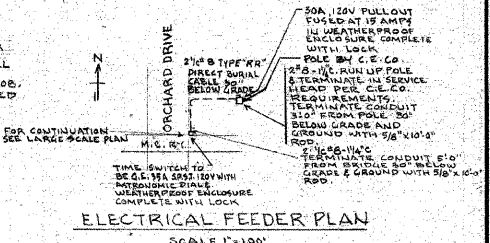
Specifications:
 Structural steel design - A.R.E.A. 1958.
 Reinforced concrete design - A.R.E.A. 1958, $f_c = 3000$.
 Live Load design - Cooper Class E72 with steam locomotive impact.
 Material and Workmanship - Standard Specifications for Road and Bridge Construction, State of Illinois, Department of Public Works and Buildings, Division of Highways, adopted Jan. 2, 1958. Special Provisions.

Foundation:
 Soil. Maximum load without longitudinal and lateral forces 1.75 tons per sq. ft.
 Maximum load with longitudinal and lateral forces 2.2 tons per sq. ft.

Bench Mark: J.A. & Assoc. U.S.G.S. Datum Elev. 700.57.
 B.M. # 26 Top 6" Square Cornerstone N & Corner Section 25-35-13 at M.C.R.W.

Track Alignment: Tangent.
 Proposed Track Grade: 0.075% descending West.
 Bridge Level: Top of Mastic Protection to slope 1/8" per ft. from $\frac{1}{2}$ of span toward the Abutments.

WIRING NOTES:
 ELECTRICAL CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIAL NECESSARY FOR THE COMPLETE LIGHTING INSTALLATION. SHALL INCLUDE ALL TRENCHING & BACKFILL AND ANY OTHER ITEMS THAT MAY BE NECESSARY FOR THE COMPLETION OF THE JOB. ALL CONDUIT TO BE HEAVY WALL GALVANIZED.



Correct: _____
 Approved: _____

released for const.	no.	date	description	by
REVISIONS				

GENERAL PLAN		10-C.S.-B
ORCHARD DRIVE UNDERPASS		project engineer:
MICHIGAN CENTRAL R.R.		S.E.P.
PARK FOREST INDUSTRIAL PARK		architect: M.M.V.
PARK FOREST ILLINOIS		engineer:
A. EPSTEIN AND SONS, INC.		drawn by: M.M.V.
ENGINEERS		sheet number:
2011 WEST PERSHING ROAD		57-1629
CHICAGO 9 ILLINOIS		date: MAY 15, 1959
E-4		



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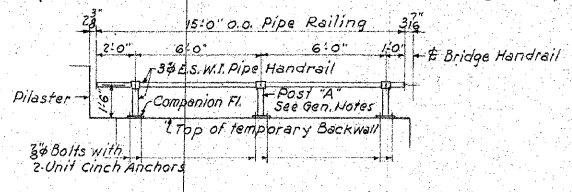
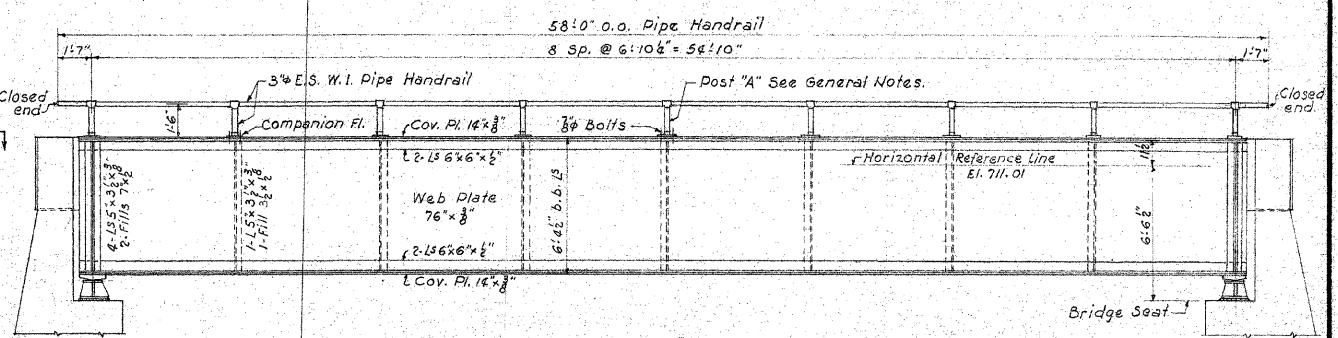
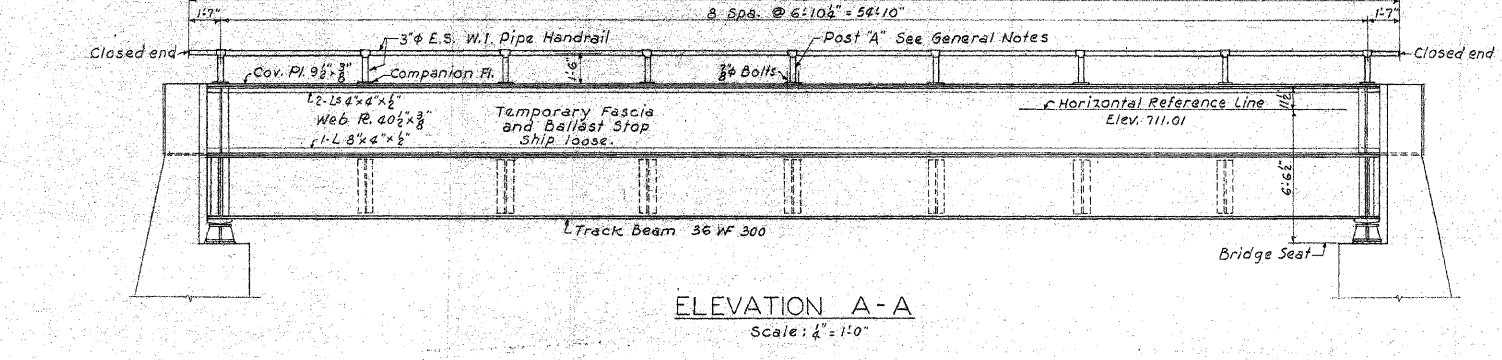
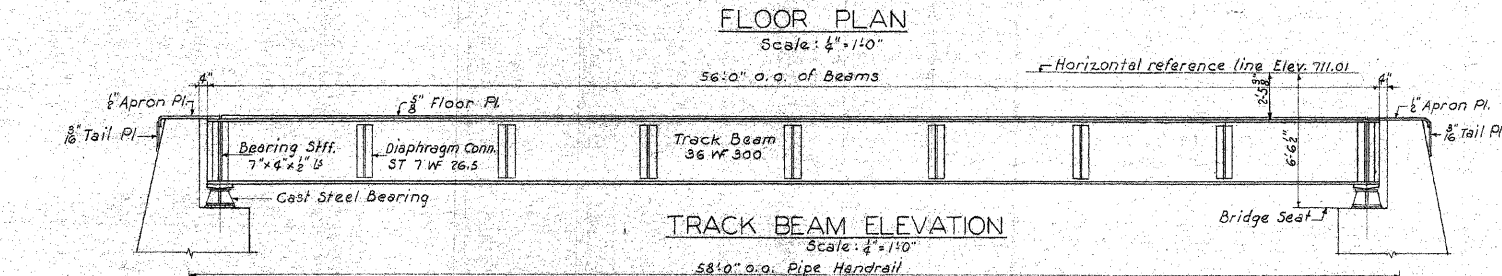
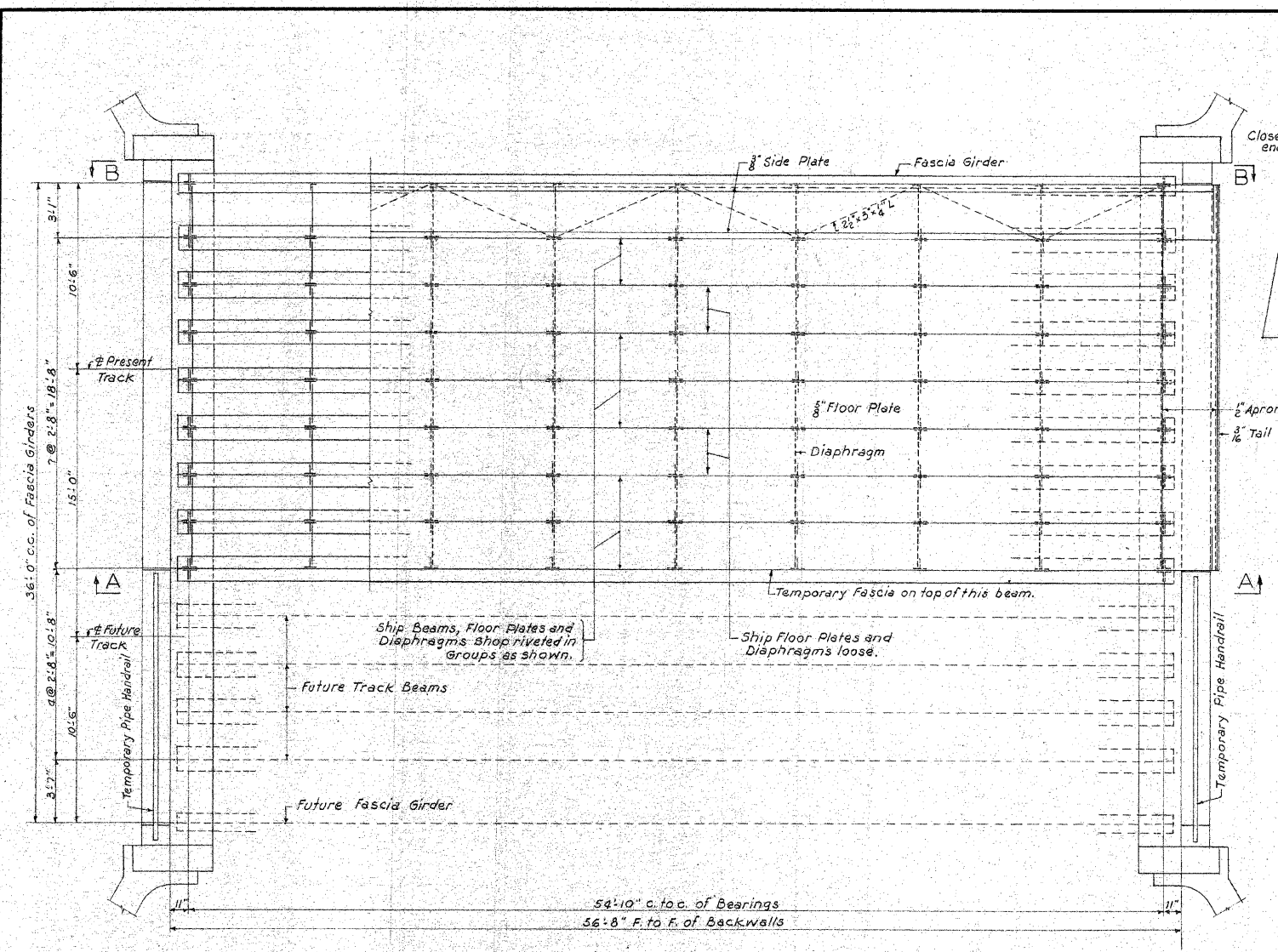
VILLAGE OF PARK FOREST, ILLINOIS
ORCHARD DRIVE IMPROVEMENTS

EXISTING STRUCTURAL PLANS
FOR INFORMATION ONLY

SCALE: NONE STA. TO STA.

F.A.U. RTE. 2836	SECTION 06-00090-00-FP	COUNTY COOK	TOTAL SHEETS 200	SHEET NO. 157
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT	CONTRACT NO. 63635	

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ESTIMATED QUANTITIES		
Item	Unit	Quantity
Structural Steel	Lb.	226,500
Cast Steel	Lb.	6,900
Metal Handrail	L.F.	131

DESIGN DATA			
Loading: Cooper E72 with steam locomotive impact. Specifications: A.R.E.A. 1958. Distance c. to c. of bearings of track beams = 54'-10" Provide adequate diaphragms to distribute dead load and live load from one track equally over a beams.			
Dead Load:			
Track and ballast	421 #/Lin. Ft. of beam.		
Waterproofing and protection	129 "		
Steel	410 "		
	Total = 960 "		
	Shear	Moment	
Dead Load	26.4 K	360 K'	
Live Load	55.2 K	666 K'	
Impact 61.5 %	34.0 K	410 K'	
Total per track beam	115.6 K	1436 K'	
Section of track beam:			
36 WF 300	Gross	25,972 44	1706 43
Floor Pl. 32 x 8"	Net	25,250 44	1,158 43
Unit Stresses:			
	Flange Compression	10.10 K.S.I.	15.34 K.S.I.
Depth / Span = 1 / 77.6	Flange Tension	14.90 K.S.I.	15.34 K.S.I.
	Web Shear (Gross)	3.66 K.S.I.	11.00 K.S.I.

NOTES FOR STEEL SUPERSTRUCTURE

Material and Workmanship, except Handrail, Welding and Painting, shall be in accordance with A.R.E.A. Specifications for Railway Bridges 1958.

Material: Structural and Rivet Steel (Carbon Grade), Steel Castings for Bearings.

Rivets: 3/8" diameter.

Holes: 1/8" diameter except as shown and noted.

Reaming: All shop and field holes in top flanges and in diaphragm connections between track beams shall be subpunched or subdrilled and reamed to size with all parts shop assembled. Matchmark field connections.

Welding: Welding shall conform to the Specifications for Design, Construction and Repair of Welded Highway and Railway Bridges of The American Welding Society, current.

Painting: Painting shall be in accordance with the Illinois Highway Specifications as shown on Sheet E4.
Shop Paint - One coat of red lead paint.
Field Paint - Two coats of aluminum paint.
Surfaces of steel which are to be in contact with concrete or waterproofing are not to be painted.

Pipe Handrail: Pipe Handrail shall be in accordance with the Illinois Highway Specifications as shown on Sheet E4.
Material - 3/8" Extra Strong Wrought Iron Pipe.
Post marked "A" to have tees threaded both sides for railing, all other posts to have reamed tees for slip joints. Random lengths of pipes may be used and couplings must clear tees by 6".

FLOOR PLAN AND BEAM ELEVATIONS				10-C.S.-B										
ORCHARD DRIVE UNDERPASS MICHIGAN CENTRAL R.R. PARK FOREST INDUSTRY PARK PARK FOREST ILLINOIS A. EPSTEIN AND SONS, INC. ENGINEERS 2011 WEST PERSHING ROAD CHICAGO 9 ILLINOIS				project engineer: S.E.P. architect: M. M. V. engineer: M. M. V. sheet number: 57-1629 date: MAY 15, 1959										
				E-7										
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released for constr.	no.	date	description	by										



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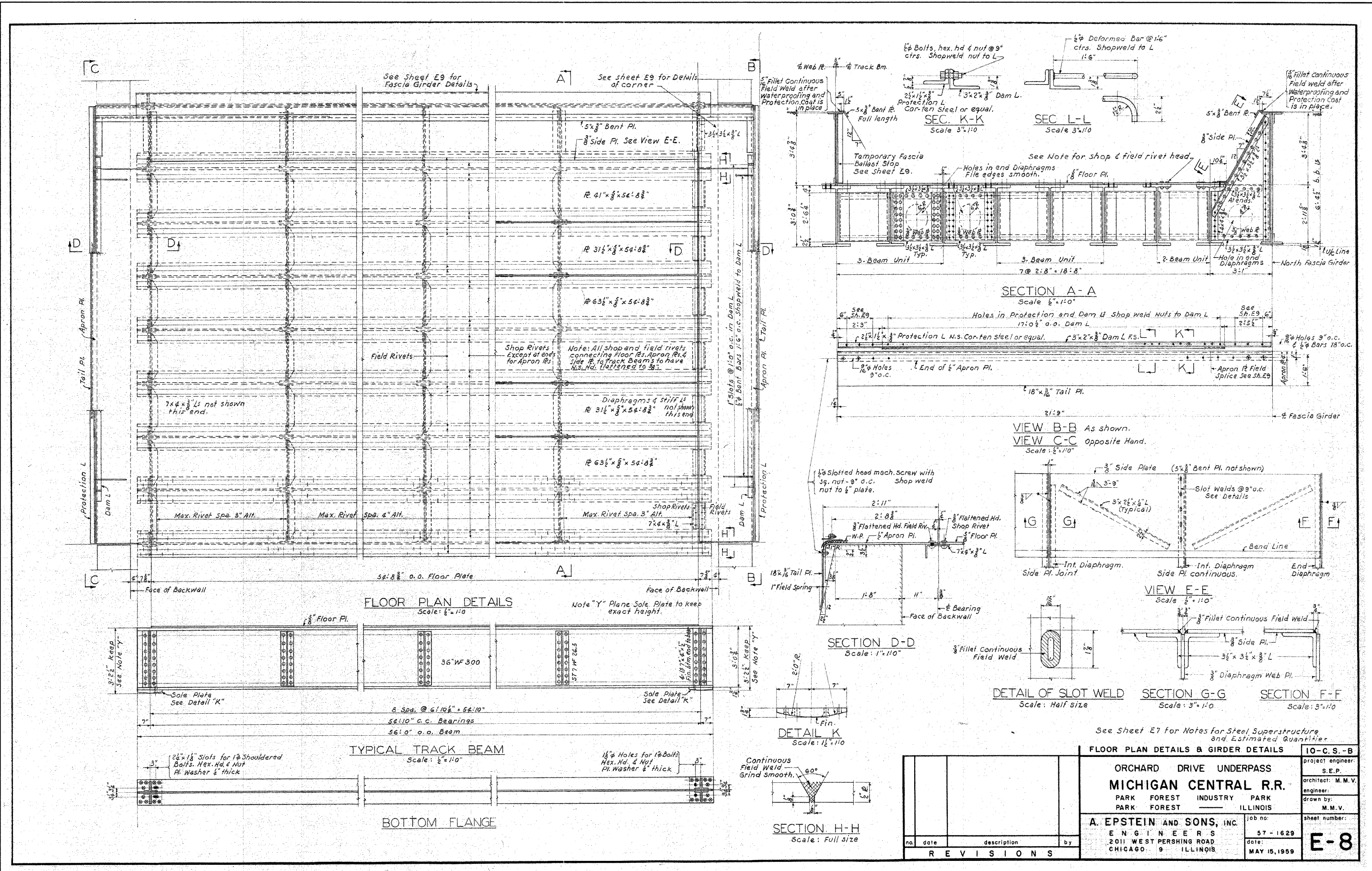
VILLAGE OF PARK FOREST, ILLINOIS
ORCHARD DRIVE IMPROVEMENTS

EXISTING STRUCTURAL PLANS
FOR INFORMATION ONLY

SCALE: NONE STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	153
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				CONTRACT NO. 63635
				M-80031661

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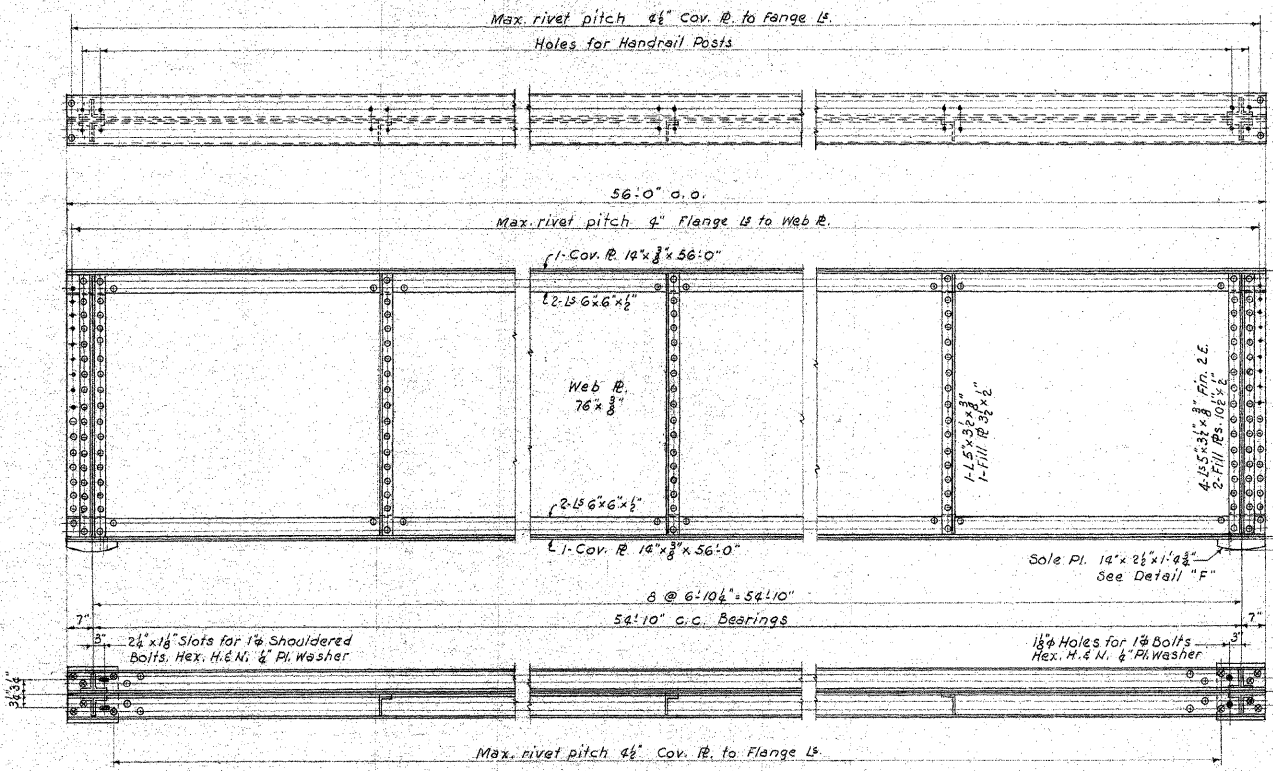
**VILLAGE OF PARK FOREST, ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

**EXISTING STRUCTURAL PLANS
FOR INFORMATION ONLY**

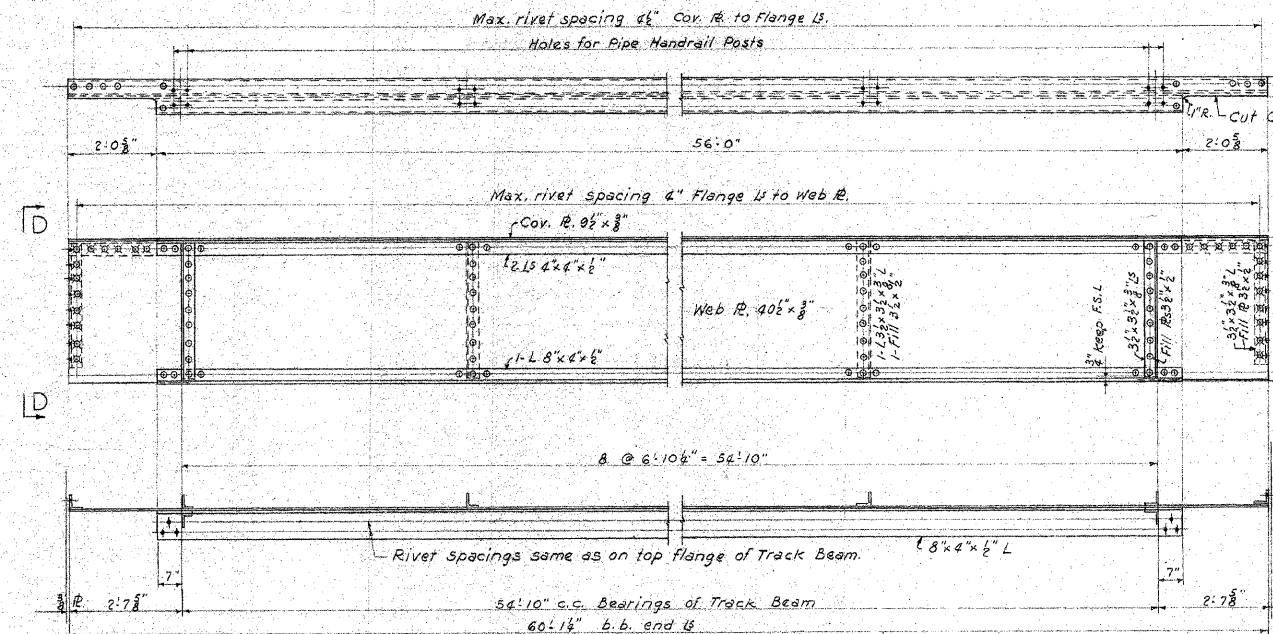
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REVISIONS			

<p align="center">ORCHARD DRIVE UNDERPASS MICHIGAN CENTRAL R.R. PARK FOREST INDUSTRY PARK PARK FOREST ILLINOIS</p>		project engineer: S.E.P.	
		architect: M.M.V.	
<p align="center">A. EPSTEIN AND SONS, INC. ENGINEERS 2011 WEST PERSHING ROAD CHICAGO 9 ILLINOIS</p>		drawn by: M.M.V.	
		sheet number: E-8	
<p align="center">no. date description by</p>		job no: 57-1629	
<p align="center">no. date description by</p>		date: MAY 15, 1959	

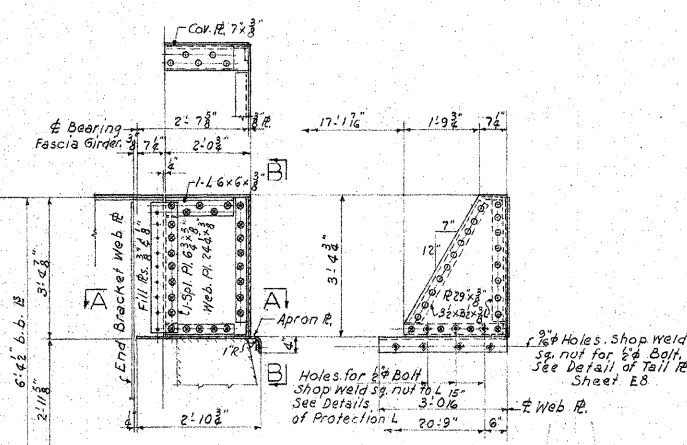
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2836	06-00090-00-FP	COOK	200	159
FED. ROAD DIST. NO. 1 ILLINOIS				FED. AID PROJECT M-8003(66D)



FASCIA GIRDER

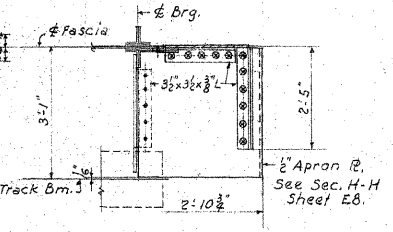


TEMPORARY FASCIA AND BALLAST STOP
Scale: 1/2" = 1'-0"



FASCIA GIRDER EXTENSION
Scale: 1/2" = 1'-0"

VIEW B-B
Scale: 1/2" = 1'-0"

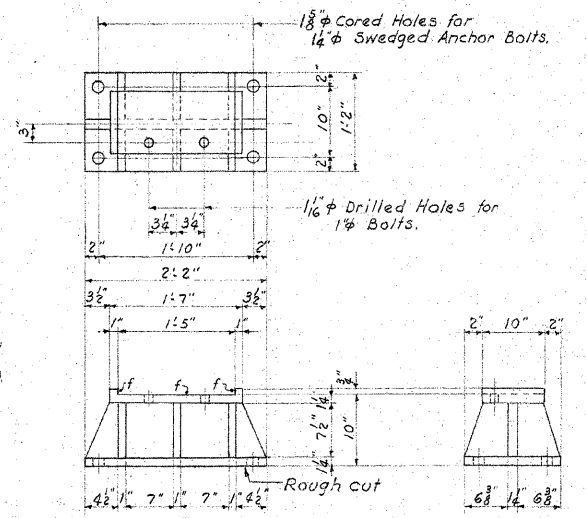


SECTION A-A
Scale: 1/2" = 1'-0"

DETAIL "F"
Scale: 1/2" = 1'-0"

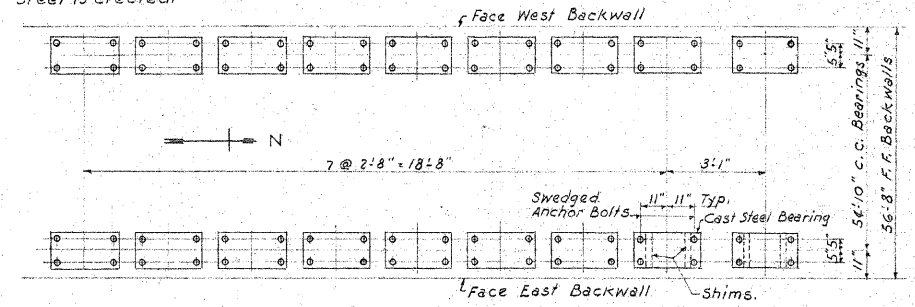
ANCHOR BOLT
Scale: 1 1/2" = 1'-0"

Anchor Bolts to be fixed in place with Embed Cement Grout, or equal, after steel is erected.



CAST STEEL BEARING
Scale: 1" = 1'-0"

ERECTOR NOTE (Fabricator to show this note on shop plan)
Normal shim thickness is 3/8" under cast steel bearings. The bearings shall be set level on normal shims and blocked accurately in position. After the steel has been erected the shims shall be adjusted if necessary, and the bearings shall be fixed in position by properly ramming in rust joint iron grout. Slope the outside surface 45° and after thorough oxidation paint the surface with an asphalt paint.



BEARING AND ANCHOR BOLT LOCATION PLAN

Provide one set of the following shims for each bearing.
1 - R. 2 1/2" x 1/2" x 1'-2"
1 - R. 2 1/2" x 1/2" x 1'-2"
3 - R. 2 1/2" x 1/2" x 1'-2"
2 - R. 2 1/2" x 1/2" x 1'-2"

See Sheet E7 for Notes for Steel Superstructure and Estimated Quantities.

FASCIA GIRDER AND BEARING DETAILS				10-C.S.-B									
ORCHARD DRIVE UNDERPASS MICHIGAN CENTRAL R.R. PARK FOREST INDUSTRY PARK PARK FOREST ILLINOIS				project engineer: S.E.P.									
				architect: M.M.V.									
A. EPSTEIN AND SONS, INC. ENGINEERS 2011 WEST PERSHING ROAD CHICAGO 9 ILLINOIS				engineer: M.M.V.									
				drawn by: M.M.V.									
job no: 57-1629 date: MAY 15, 1959				sheet number: E-9									
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no.	date	description	by										
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DATE -	7/1/11	FILE -	060670-PH2-ST4.sht

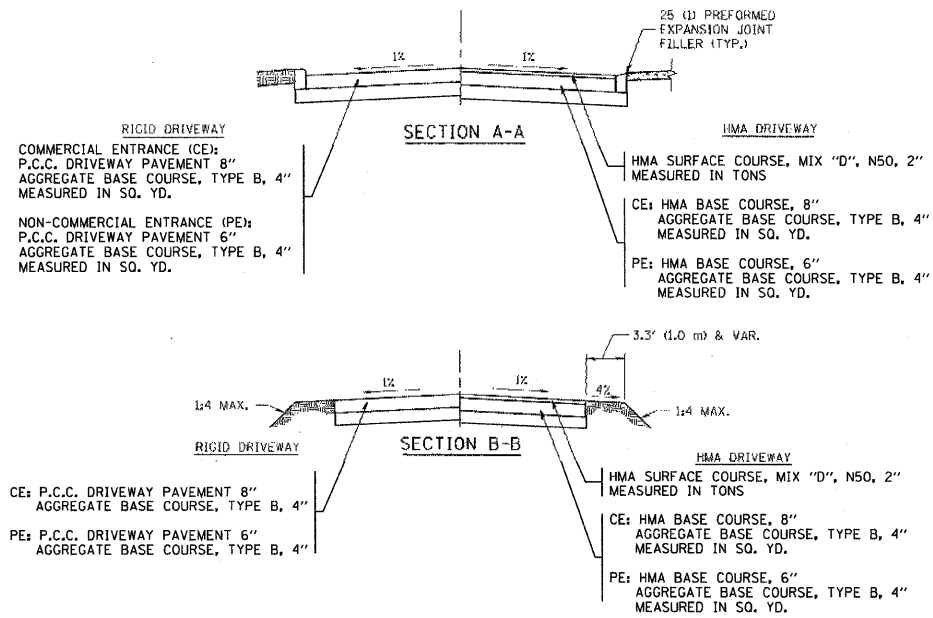
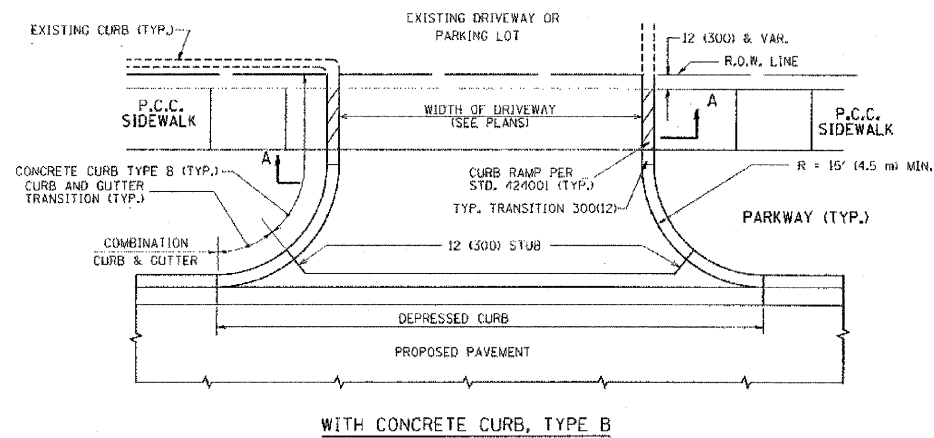
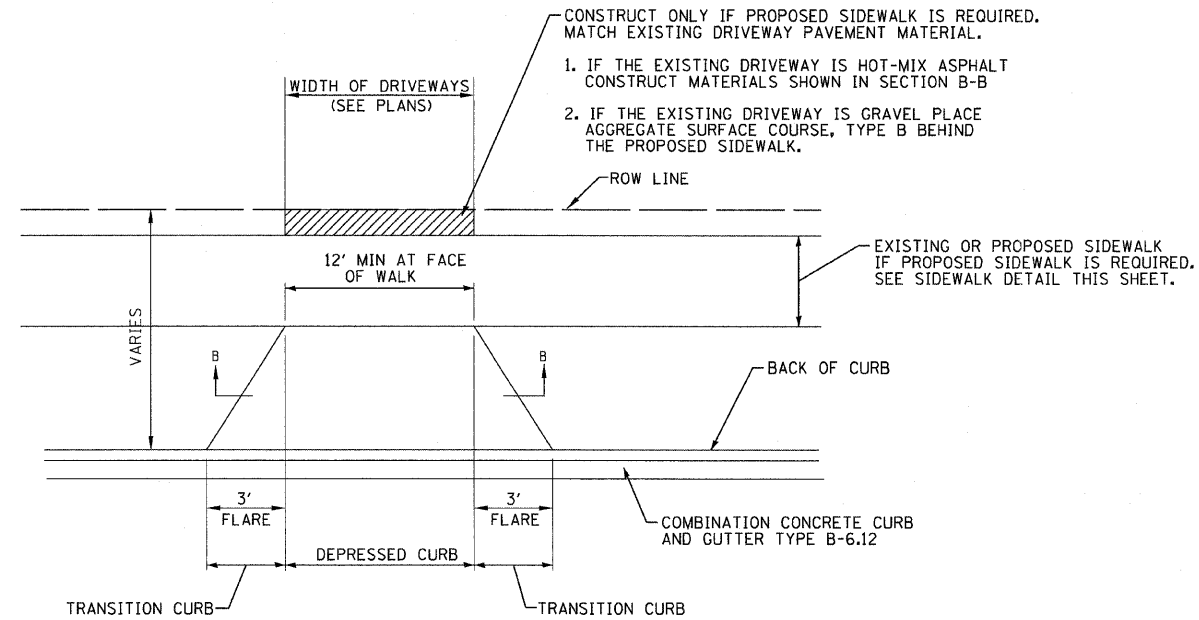
VILLAGE OF PARK FOREST, ILLINOIS
ORCHARD DRIVE IMPROVEMENTS

EXISTING STRUCTURAL PLANS
FOR INFORMATION ONLY

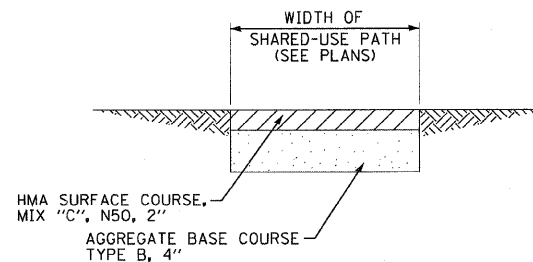
SCALE: NONE STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.
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CONTRACT NO. 63635			
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT	M-8003166D

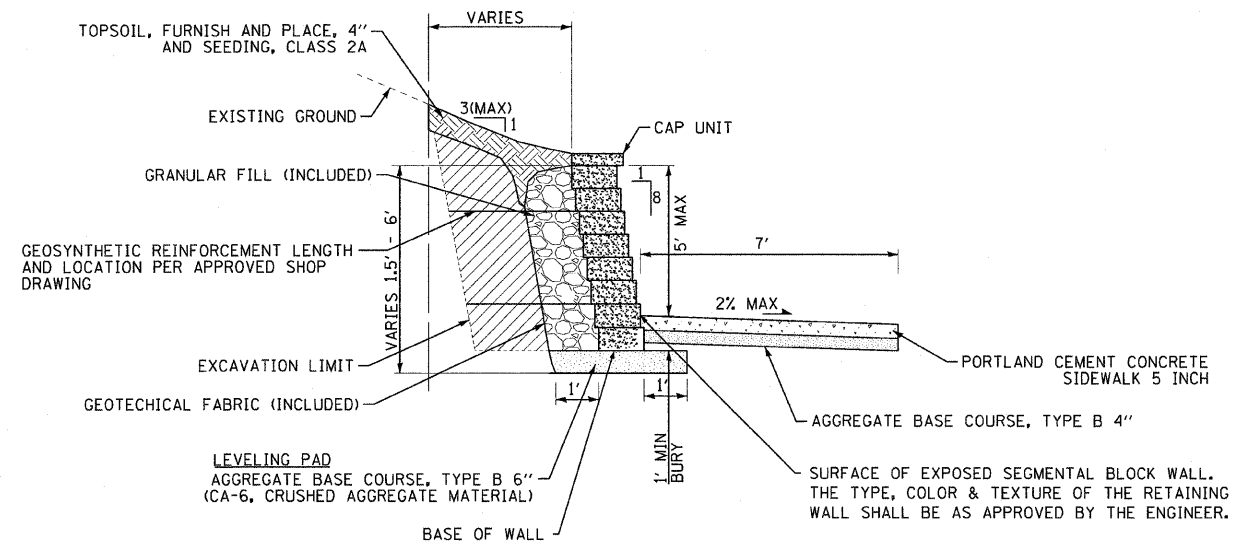
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DRIVEWAY DETAILS

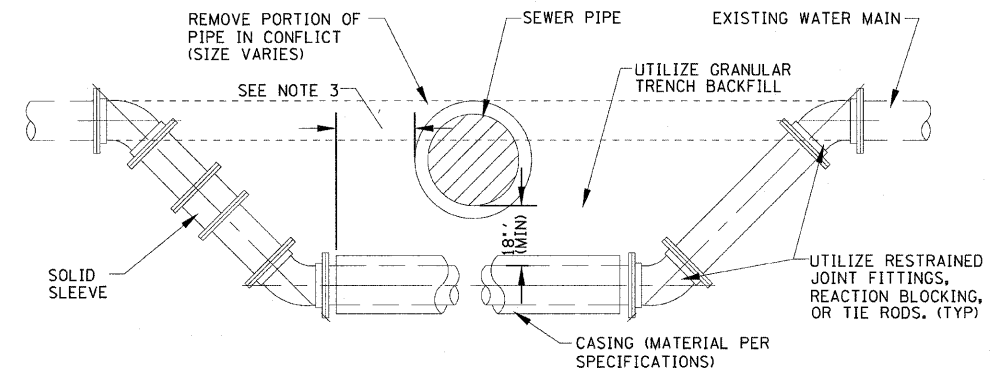


SHARED-USE PATH DETAIL



SEGMENTAL CONCRETE BLOCK WALL, SPECIAL DETAIL

NO SCALE
ORCHARD DRIVE, SEE PLANS FOR LOCATION



- NOTE: 1. WATER MAIN RELOCATIONS ARE SUBJECT TO INSPECTION AT NORMAL SYSTEM PRESSURE BEFORE BURIAL.
2. USE ONLY 45 DEGREE BENDS UNLESS OTHERWISE PERMITTED BY THE ENGINEER.
3. CASING MUST EXTEND A MINIMUM OF 10 FEET BEYOND OUTSIDE EDGE OF SEWER PIPE - ON BOTH SIDES OF SEWER.

ADJUSTING WATER MAIN - DUCTILE IRON

NO SCALE

GENERAL NOTES:

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

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS.

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

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

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

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**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

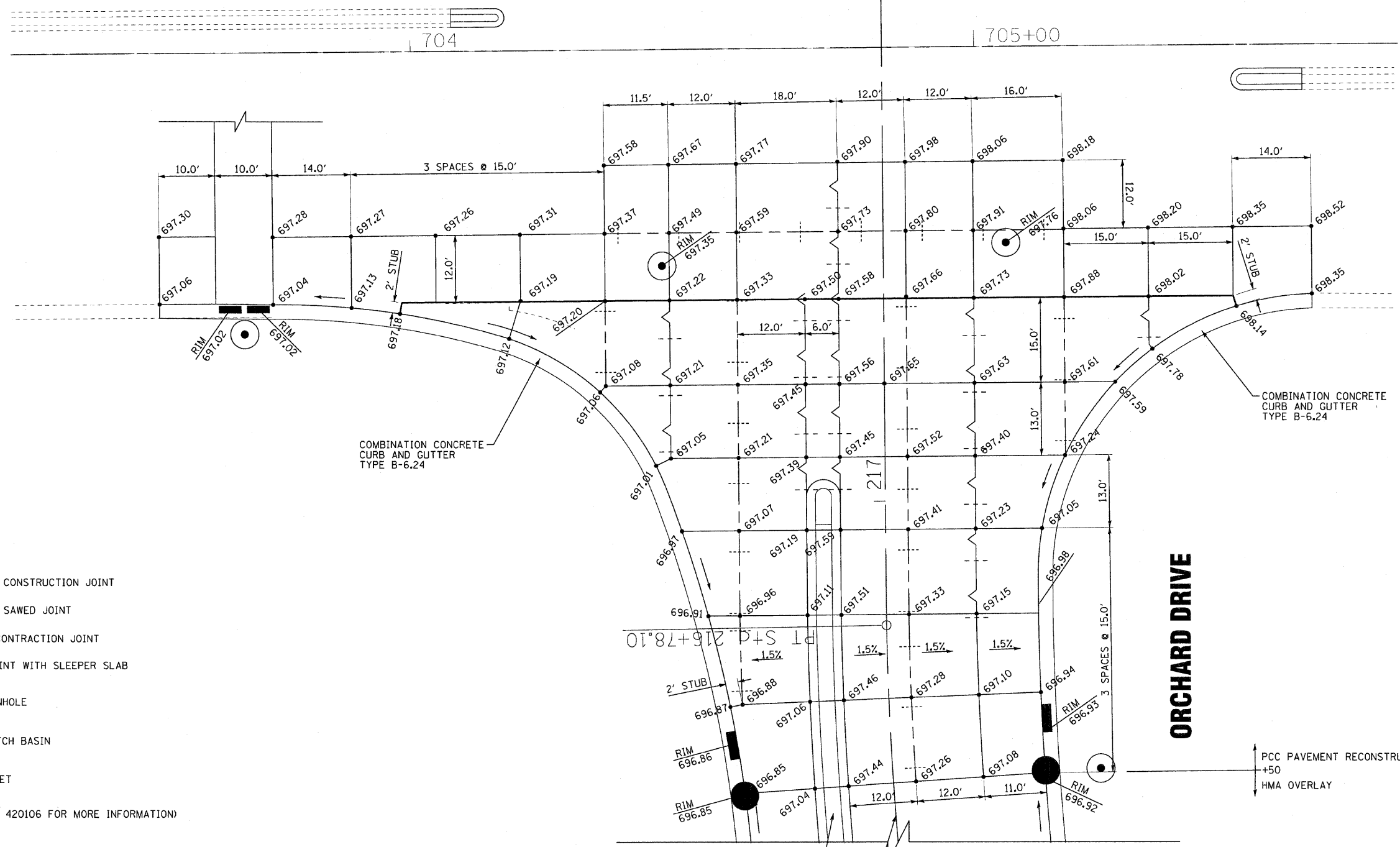
MISCELLANEOUS DETAILS

SCALE: NONE

STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 63635			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-80031661	

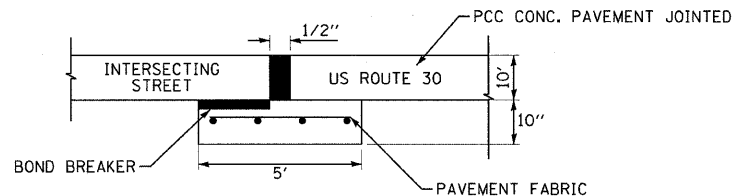
U.S. ROUTE 30 (LINCOLN HWY)



LEGEND

- LONGITUDINAL CONSTRUCTION JOINT
- LONGITUDINAL SAWED JOINT
- TRANSVERSE CONTRACTION JOINT
- EXPANSION JOINT WITH SLEEPER SLAB
- PROPOSED MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED INLET

(SEE STANDARDS 420001, 420101, 420106 FOR MORE INFORMATION)



EXPANSION JOINT
1/2" WITH SLEEPER SLAB

NOTE:
ADDITIONAL SAWED CONSTRUCTION JOINTS MAY BE REQUIRED IN THE FIELD, AS DIRECTED BY THE ENGINEER.
EXACT LOCATIONS TO BE VERIFIED IN THE FIELD AND APPROVED BY THE ENGINEER.

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 LICENSE NO. 184-000121 - EXPIRES 4/30/2013
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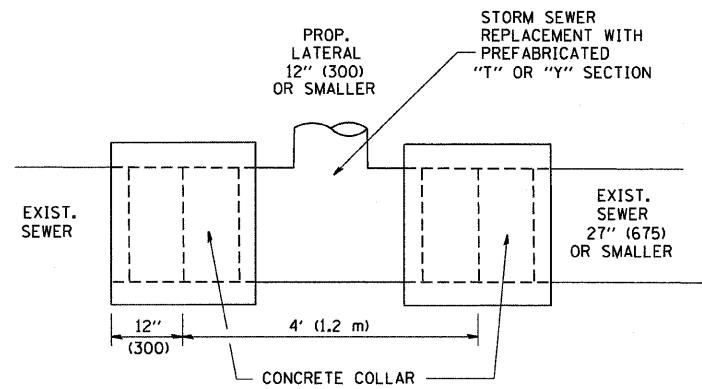
STATE OF ILLINOIS ORCHARD DRIVE IMPROVEMENTS

PAVEMENT JOINT DETAILS AND ELEVATIONS

SCALE: 1" = 10'

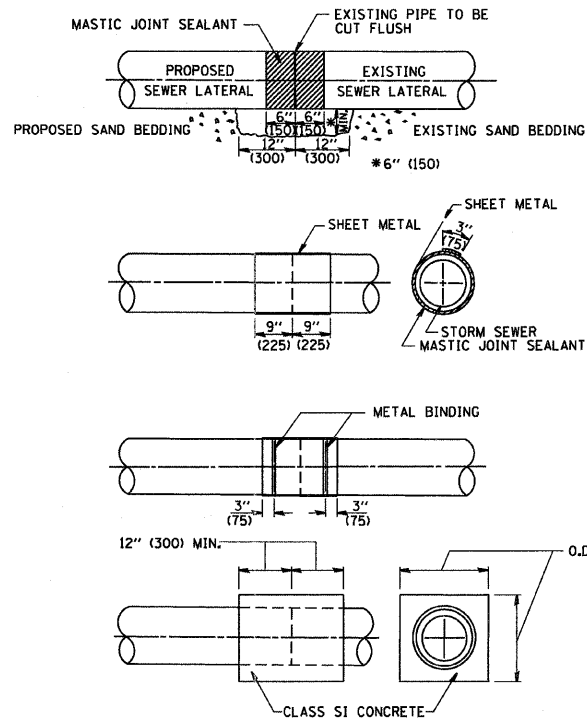
STA. TO STA.

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			M-80031661	



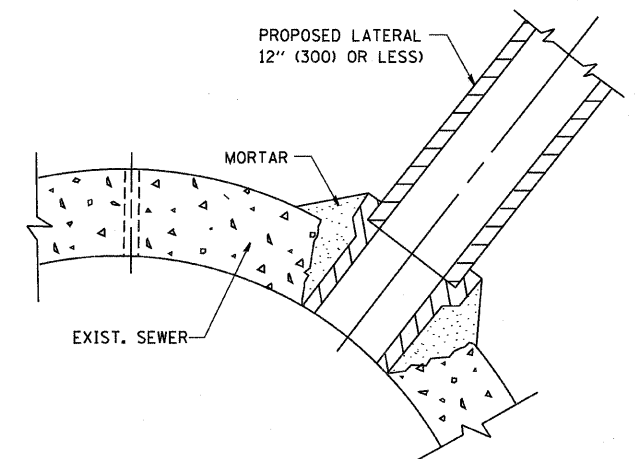
DETAIL "A"

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



DETAIL "B"

CLASS SI CONCRETE COLLAR



DETAIL "C"

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

CONSTRUCTION SEQUENCE

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

NOTES

MATERIAL

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

CONSTRUCTION METHODS

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

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

GENERAL

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

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

BASIS OF PAYMENT

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

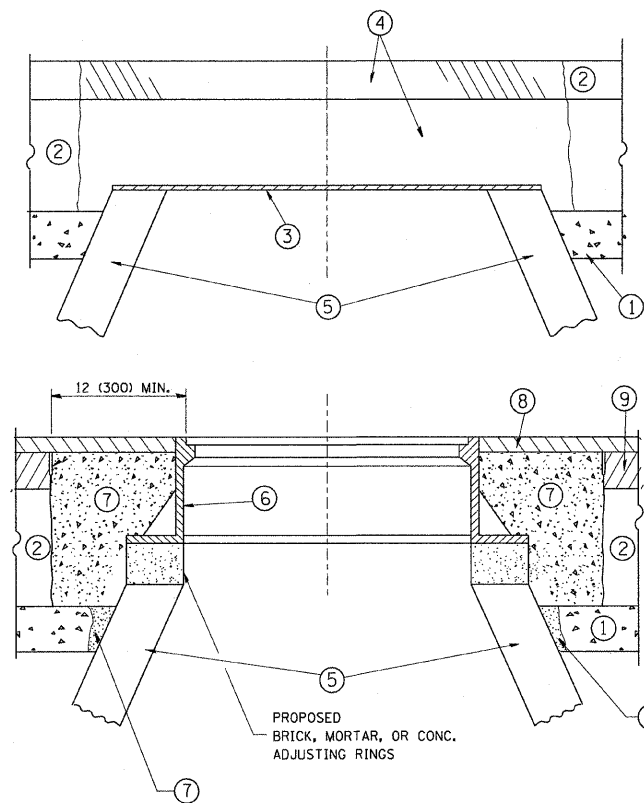
REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

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

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

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

FILE NAME = W:\diststd\22x34\bd07.dgn	USER NAME = geglionobt	DESIGNED - M. DE YONG	REVISED - M. DE YONG 05-08-92	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER			F.A.D. RTE. 2836	SECTION 06-00090-00-PP	COUNTY COOK	TOTAL SHEETS 200	SHEET NO. 163
	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - R. SHAH 09-09-94		SCALE: NONE	SHEET NO. 1	OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 63635		
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - R. SHAH 10-25-94		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-8003(661)							
		DATE - 07-25-90	REVISED - R. SHAH 06-12-96									
BD500-01 (BD-7)												



CONSTRUCTION PROCEDURES

- STAGE 1 (BEFORE PAVEMENT MILLING)**
- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
 - B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
 - C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
 - D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

- STAGE 2 (AFTER PAVEMENT MILLING)**
- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
 - B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
 - C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.
- * UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

LEGEND

- ① SUB-BASE GRANULAR MATERIAL
- ⑥ FRAME AND LID (SEE NOTES)
- ② EXISTING PAVEMENT
- ⑦ CLASS PP-1* CONCRETE
- ③ 36 (900) DIAMETER METAL PLATE
- ⑧ PROPOSED HMA SURFACE COURSE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑨ PROPOSED HMA BINDER COURSE
- ⑤ EXISTING STRUCTURE

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL" NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

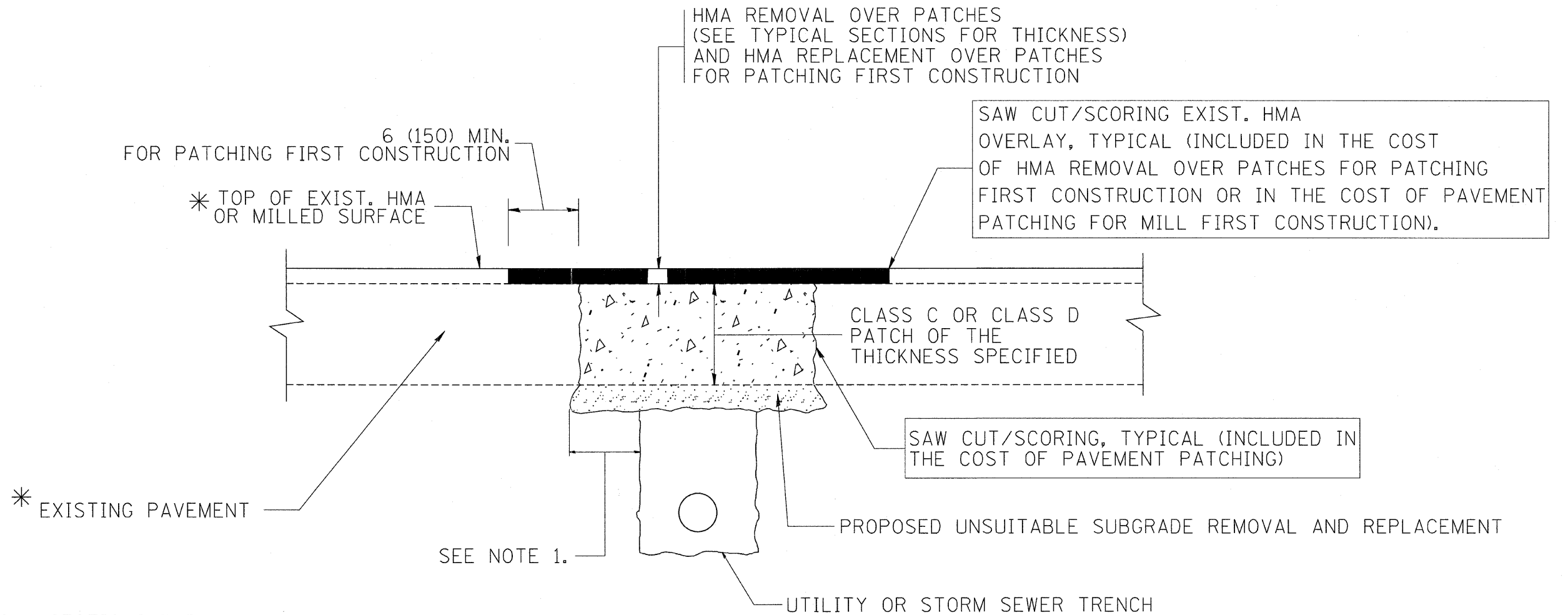
THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = jeyso	DESIGNED - R. SHAH	REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
at\pwork\pwork\jeyso\0108315\bd08.dgn		DRAWN -	REVISED - R. WIEDEMAN 05-14-04		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	2836	06-0090-00-FP	COOK	200	164
	PLOT SCALE = 49.9999" / IN.	CHECKED -	REVISED - R. BORO 01-01-07		STA.	TO STA.	BD600-03 (BD-8)		CONTRACT NO. 63635		
	PLOT DATE = 3/18/2011	DATE - 10-25-94	REVISED - R. BORO 03-09-11		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-8003(661)						



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

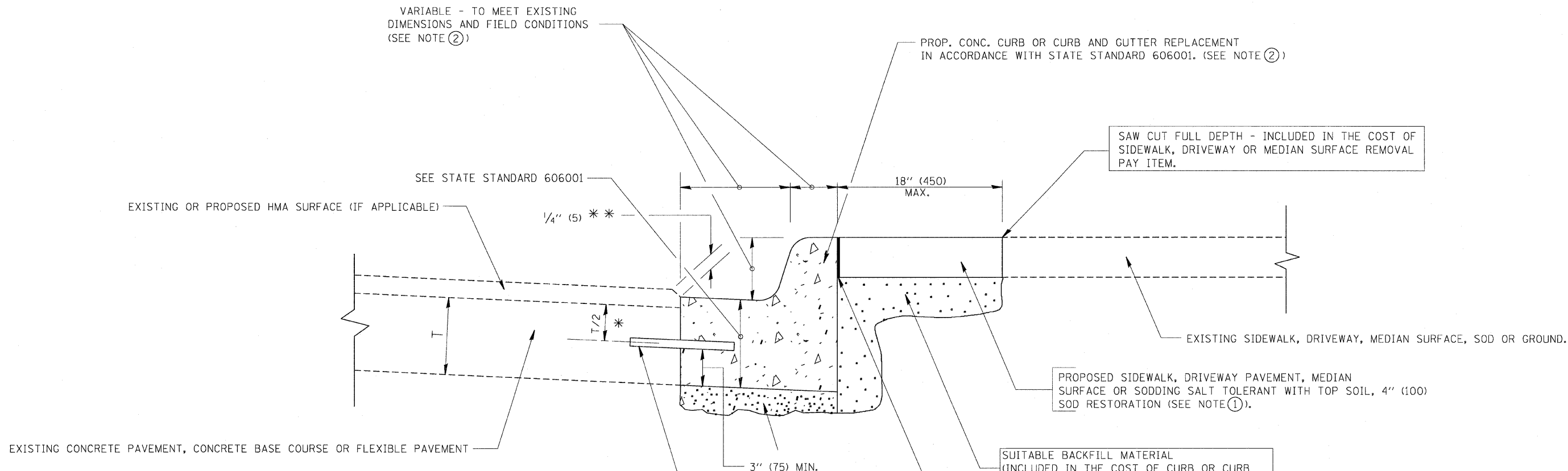
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

FILE NAME = c:\projects\diststd22x34\bd22.dgn	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - R. BORO 01-01-07			2836	06-00090-00-FP	COOK	200	165
	PLOT DATE = 10/27/2008	CHECKED -	REVISED - R. BORO 09-04-07			BD400-04 (BD-22)		CONTRACT NO. 63635		
		DATE - 10-25-94	REVISED - K. ENG 10-27-08			SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.
						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-8003 (661)				



* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

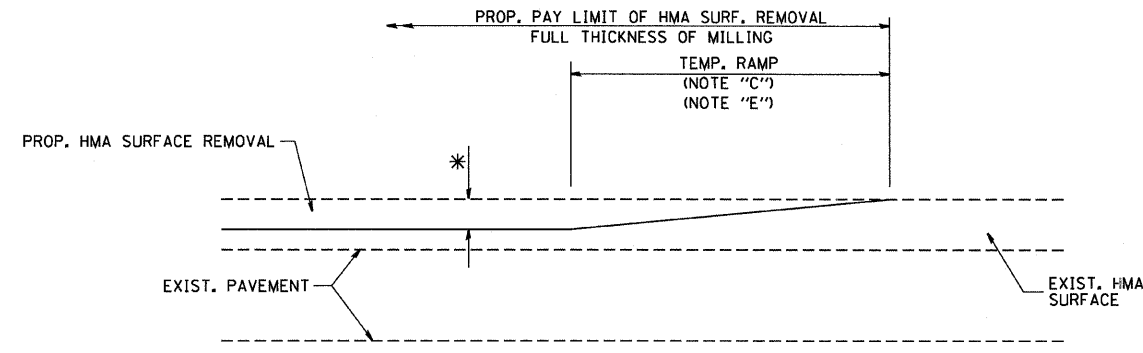
BASIS OF PAYMENT:

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

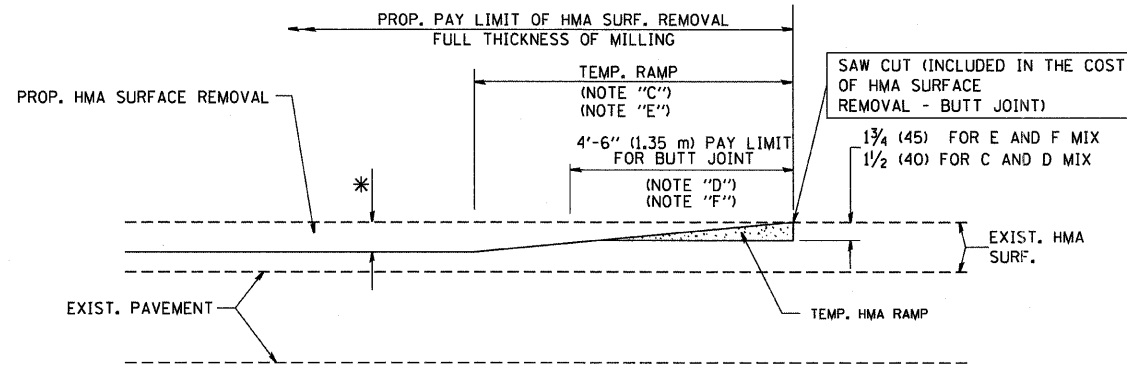
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = drivakosgn	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\drivakosgn\d0108315\bd24.dgn	DRAWN -	REVISED - A. ABBAS 03-21-97	2836			06-00090-00-FP	COOK	200	166	
PLOT SCALE = 50,000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 01-22-01	BD600-06 (BD-24)			CONTRACT NO. 63635				
PLOT DATE = 12/15/2009	DATE - 03-11-94	REVISED - R. BORO 12-15-09	SCALE: NONE			SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		
						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-8003 (661)				



MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

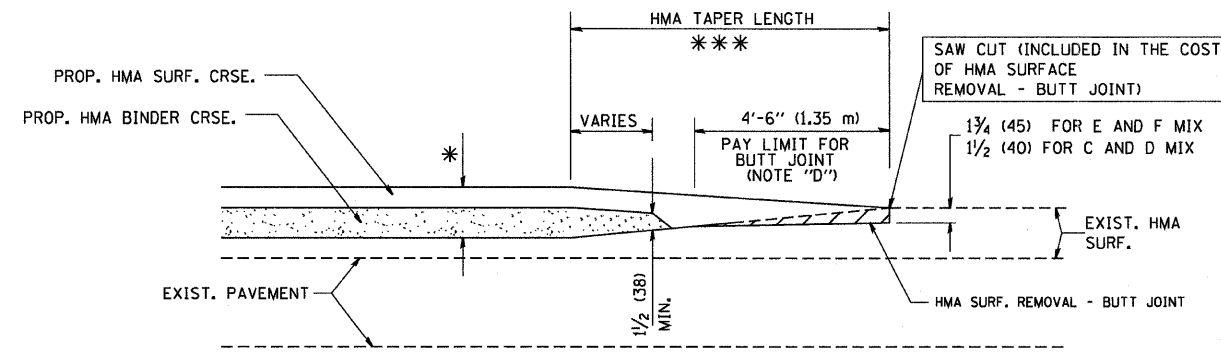
OPTION 1



HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

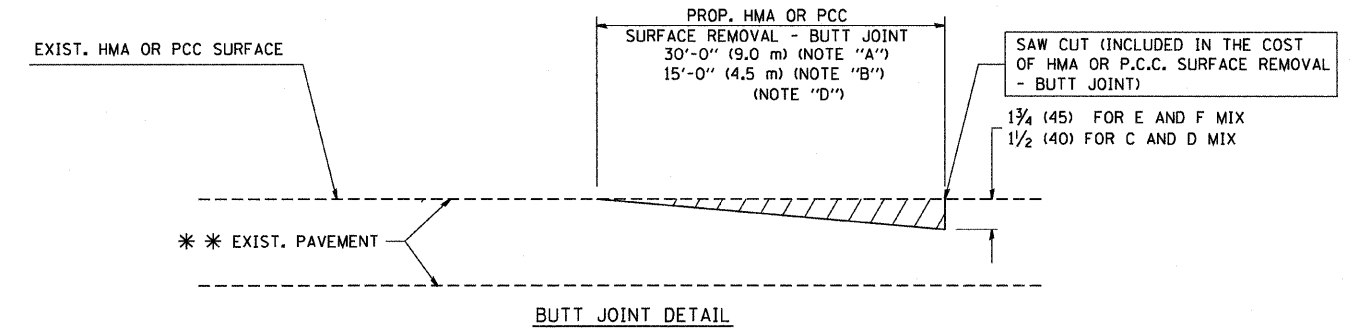
OPTION 2

TYPICAL TEMPORARY RAMP

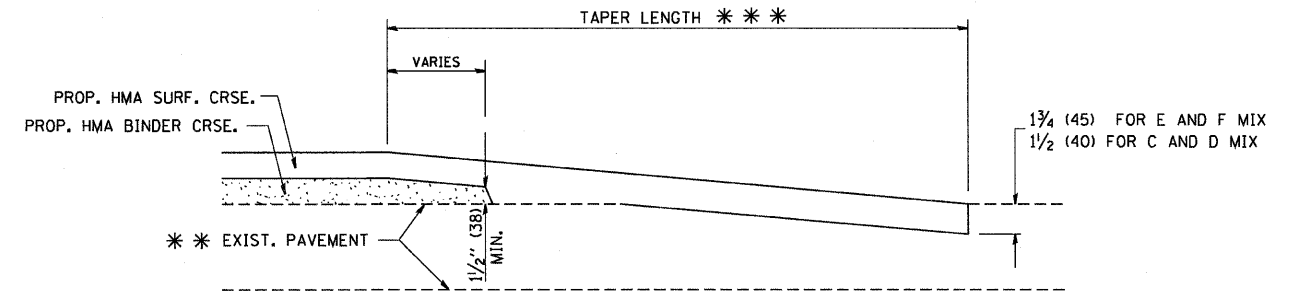


BUTT JOINT AND
HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

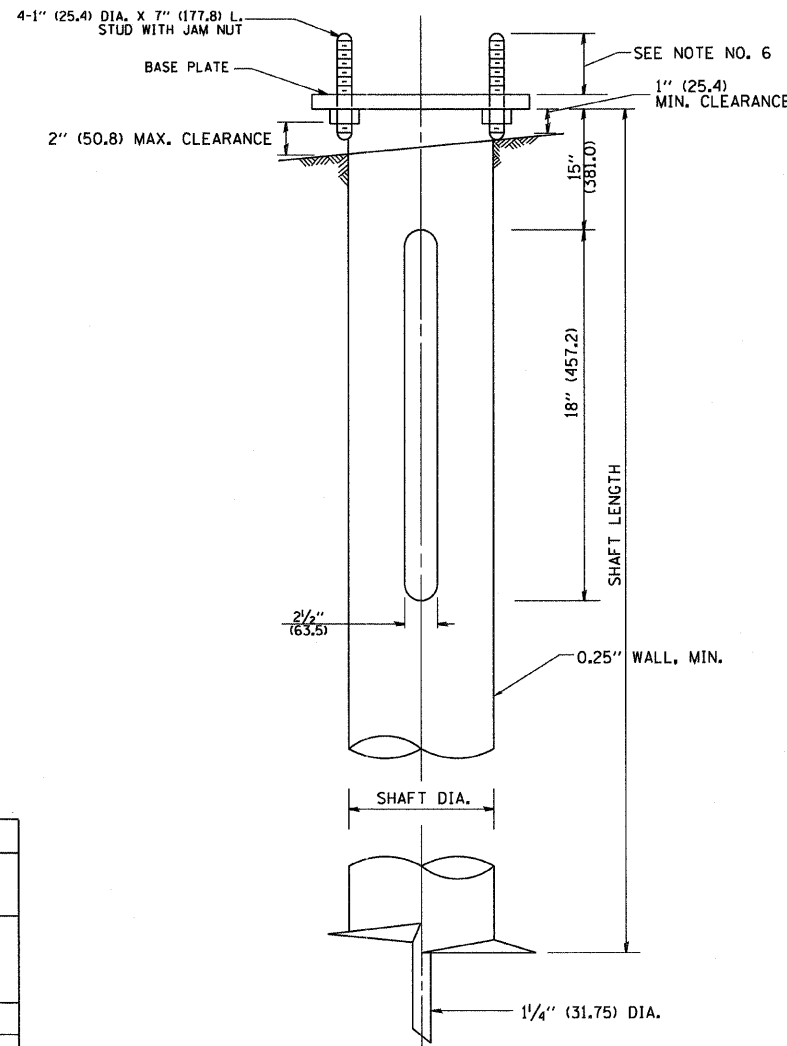
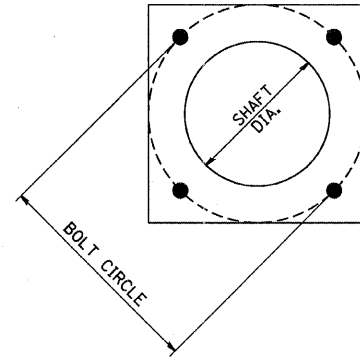
- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

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

FILE NAME = W:\dststd\22x34\bd32.dgn	USER NAME = geglionobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT JOINT AND HMA TAPER DETAILS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000 ' / IN.	DRAWN -	REVISED - A. ABBAS 03-21-97		2836	06-000090-00-FP	COOK	200	167			
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - M. GOMEZ 04-06-01		SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		BD400-05 BD32 CONTRACT NO. 63635	
		DATE - 06-13-90	REVISED - R. BORO 01-01-07		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-8003(661)							



HELIX FOUNDATION SIZE

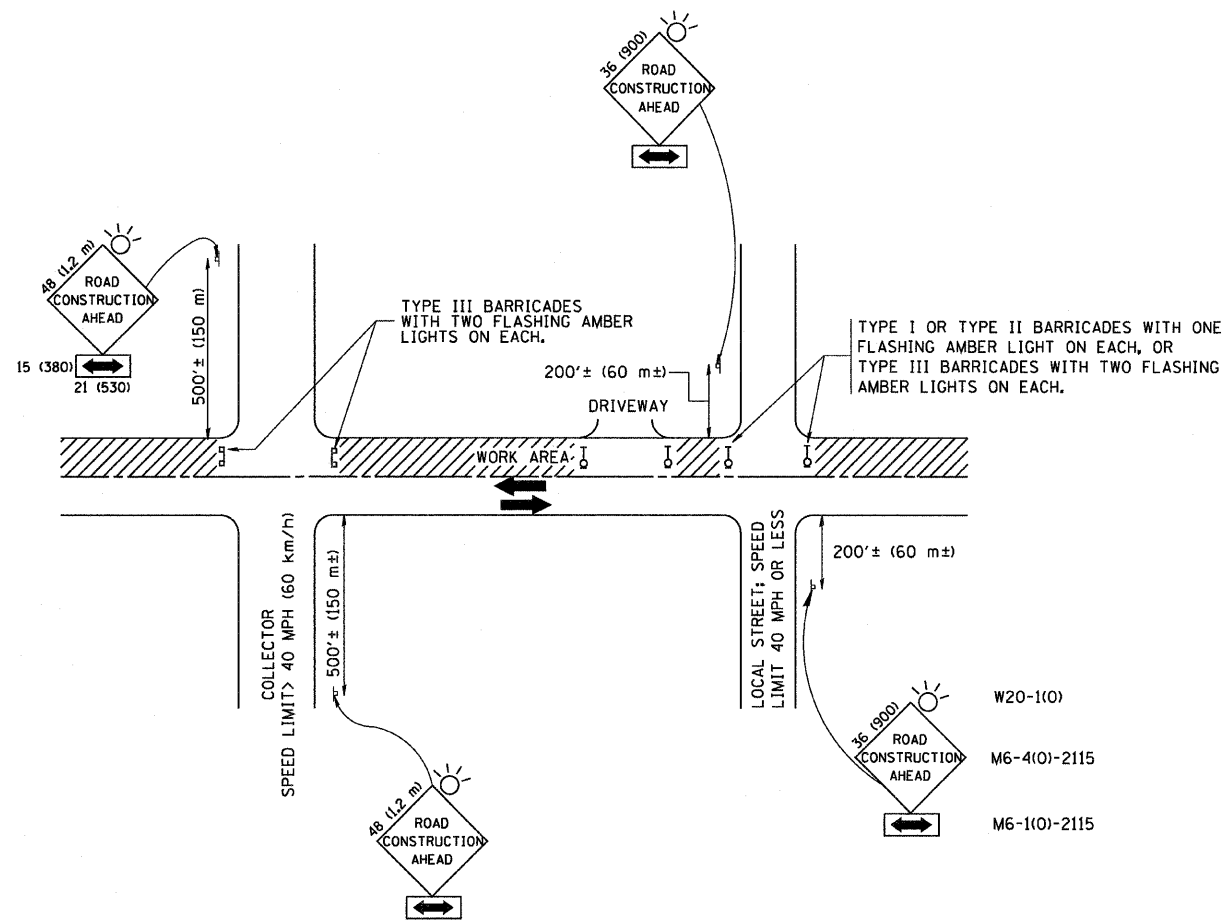
POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.	11 1/2"	8 5/8"	6 FT.	12"x12"x1"
31 FT.-35 FT.	11 1/2"	8 5/8"	6 FT.	12"x12"x1"
36 FT.-40 FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
41 FT.-45 FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
46 FT.-50 FT.	15"	10"	8 FT.	15"x15"x1 1/4"

METAL HELIX FOUNDATION MATERIALS

ITEM	MATERIAL REQUIREMENT
BASEPLATE	AASHTO M 270M, GRADE 36 (M270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS/STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291M (ASTM A 563) GRADE DH, OR AASHTO M 292 (ASTM A 194) GRADE 2H
WASHERS	AASHTO M 293 (ASTM F 436)

NOTES:

1. ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. ALL MATERIAL SHALL BE GALVINIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
3. ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN 1/4" (6.35 mm) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558.18 n.m) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
4. THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
5. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
6. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
7. ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
8. METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDATION IS NOT ALLOWED.
9. THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB (4,750 KNM). METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
10. THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS ($\pm 1^\circ$) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC (± 0.188) TO THE SHAFT AXIS.
11. THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC (± 0.125) AND IN LINE ($\pm 2^\circ$).
12. THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.



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

NOTES:

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

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

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

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

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

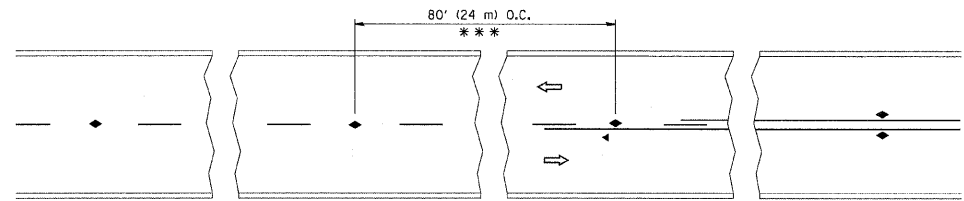
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		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

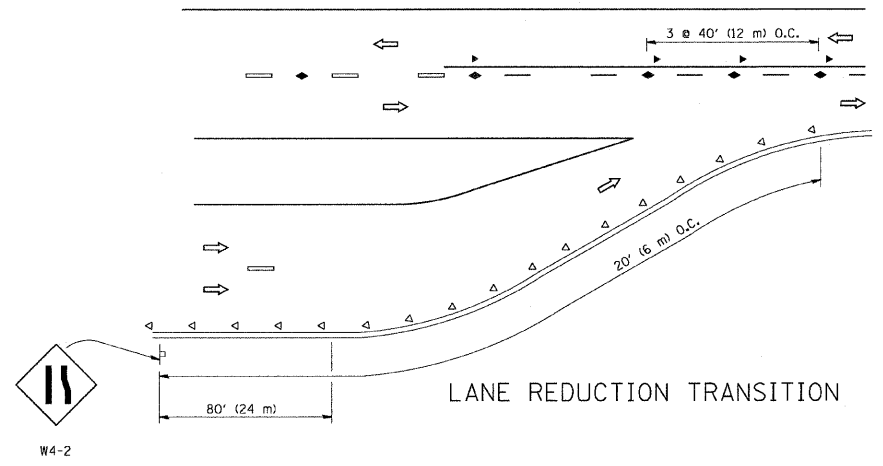
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-000090-00-FP	COOK	200	169
TC-10			CONTRACT NO. 63635	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-8003 (661)				

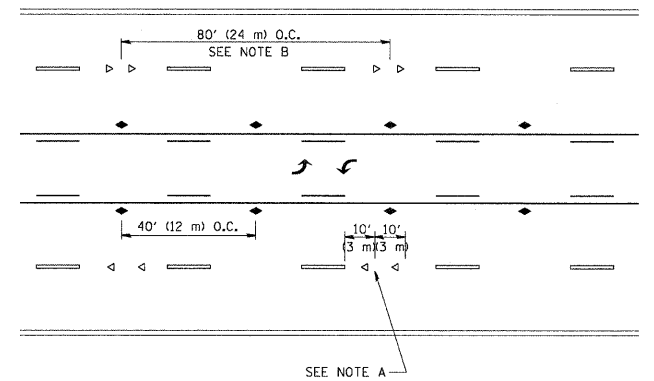


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

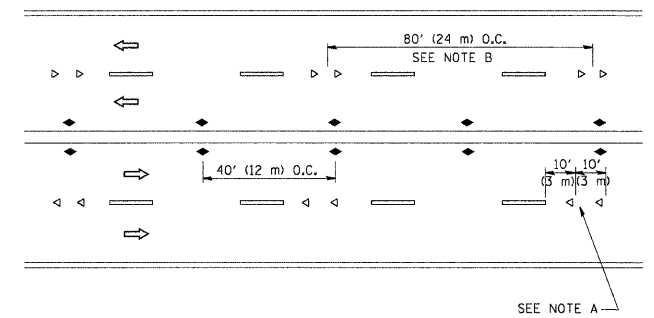
TWO-LANE/TWO-WAY



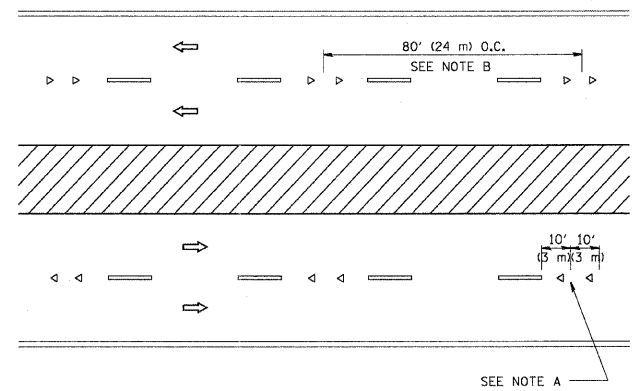
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

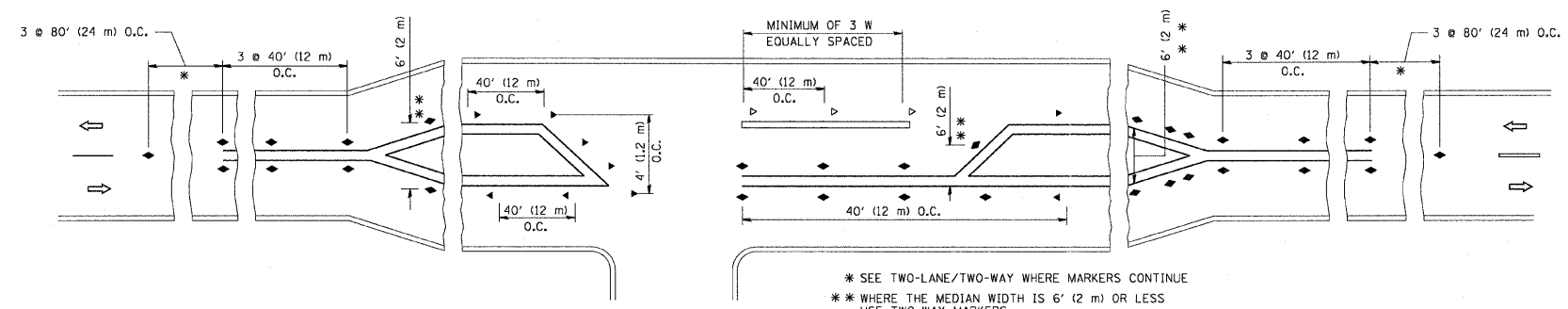
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

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

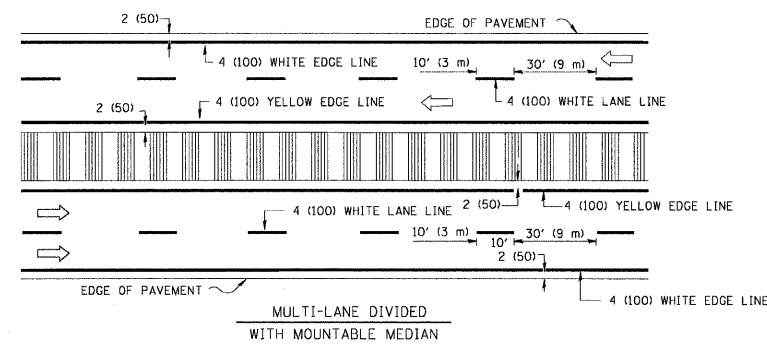
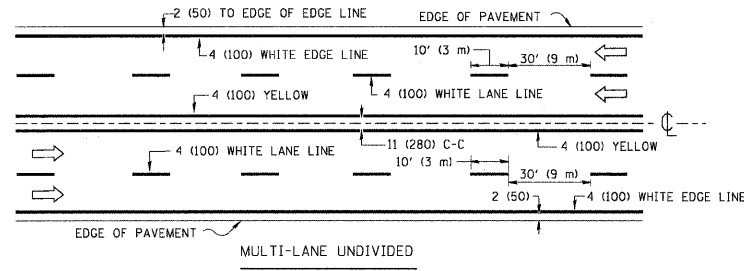
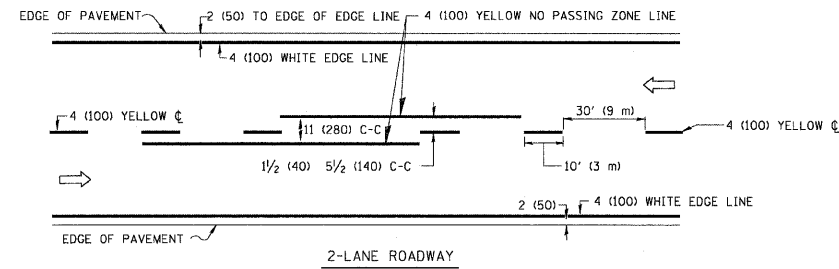


LEFT TURN

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

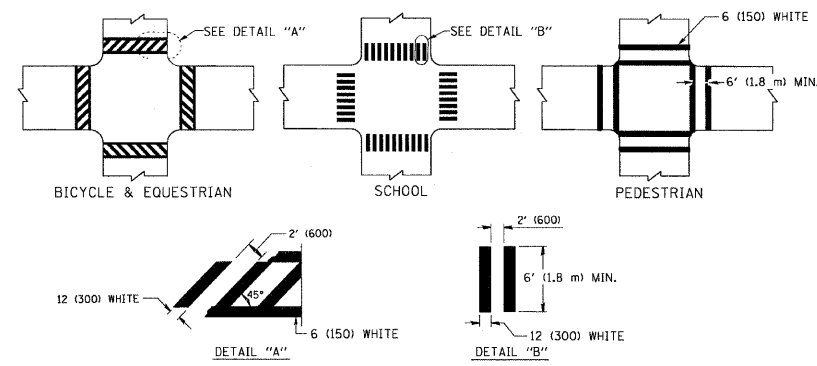
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = c:\pwork\pwork\drivakosgn\d0108315\to1.dgn	USER NAME = drivakosgn	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 50,000' / IN.	DRAWN -	REVISED - T. RAMMACHER 03-12-99		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	2836	06-000090-00-EP	COOK	200	170
	PLOT DATE = 9/9/2009	CHECKED -	REVISED - T. RAMMACHER 01-06-00		REVISED - C. JUCIUS 09-09-09				TC-11		CONTRACT NO. 63635		
		DATE -							FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-8003 (661)				

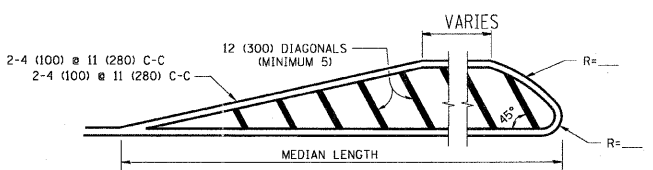
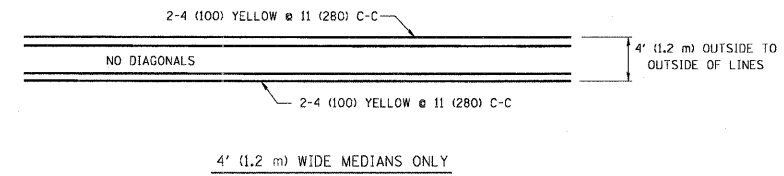


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

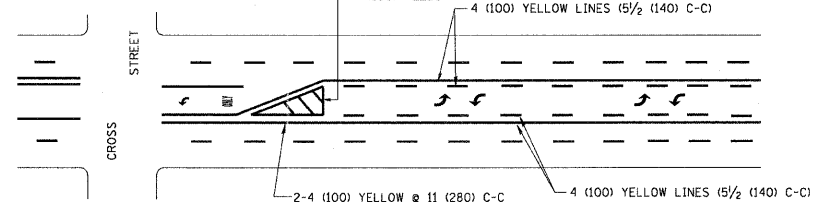


TYPICAL CROSSWALK MARKING



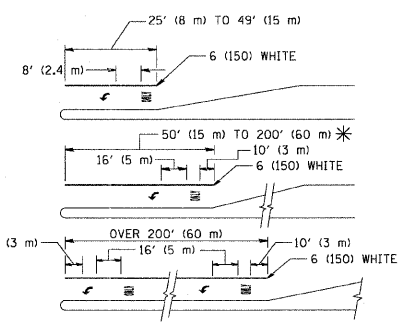
DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE



MEDIAN WITH TWO-WAY LEFT TURN LANE

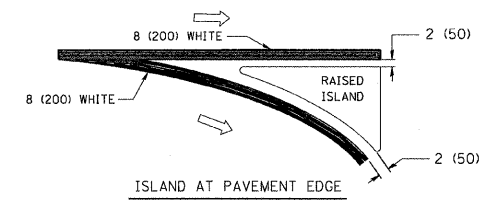
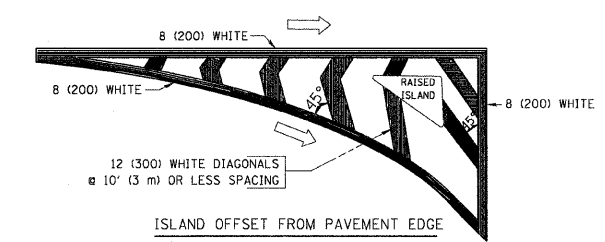
TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

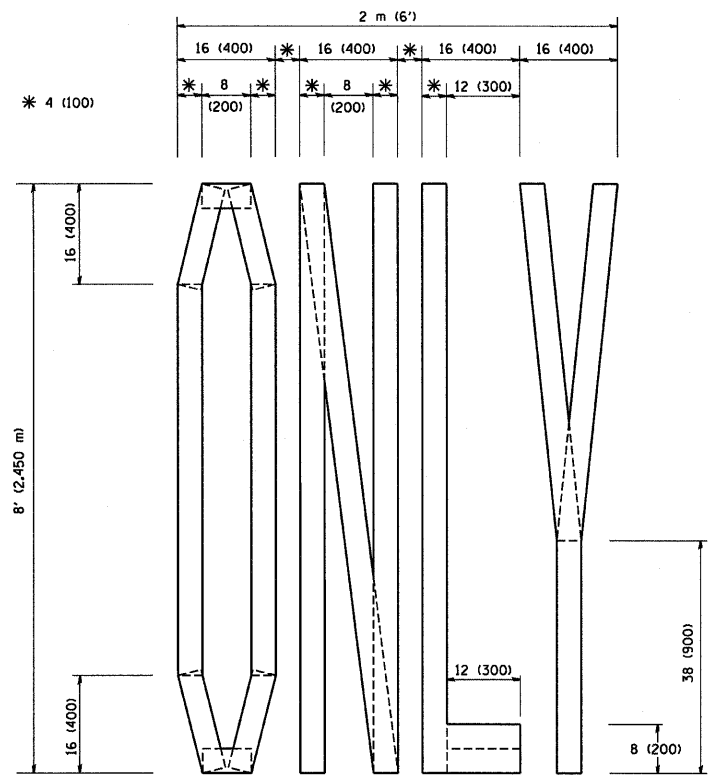


TYPICAL ISLAND MARKING

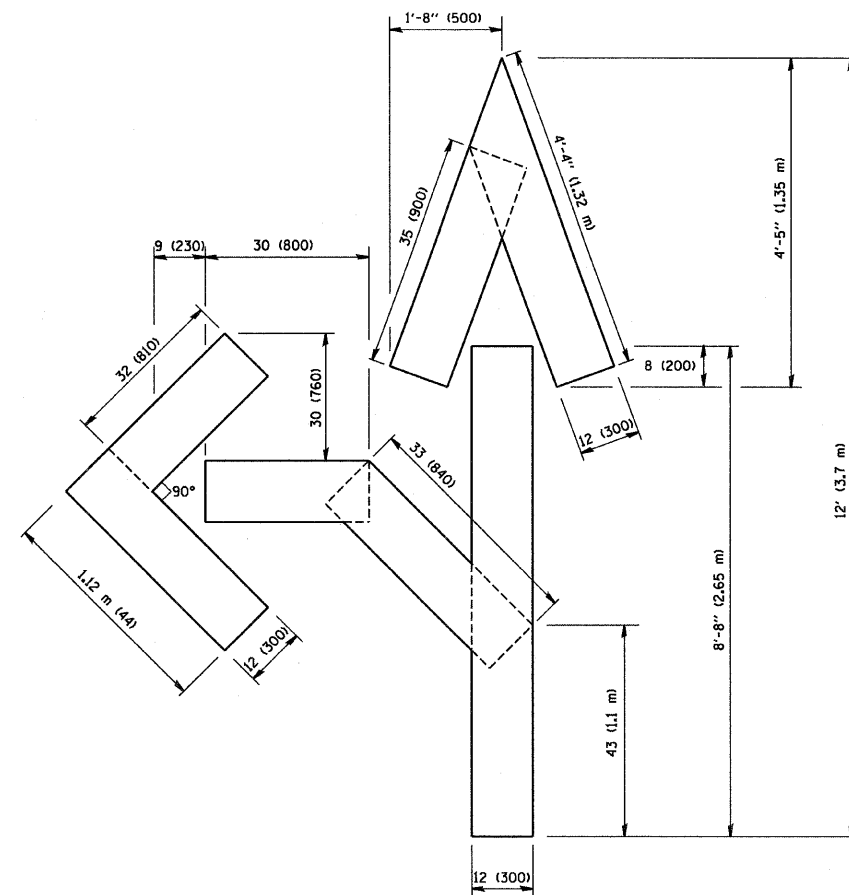
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION	4 (100)	SOLID	YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE
NO PASSING ZONE LINES: FOR BOTH DIRECTIONS	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100)	SKIP-DASH	WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
LANE LINES	5 (125) ON FREEWAYS	SKIP-DASH	WHITE	
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
TWO WAY LEFT TURN MARKING	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN)	2 @ 6 (150)	SOLID	WHITE	NOT LESS THAN 6' (1.8 m) APART
CROSSWALK LINES (BIKE & EQUESTRIAN)	12 (300) @ 45°	SOLID	WHITE	2' (600) APART
CROSSWALK LINES (LONGITUDINAL BARS (SCHOOL))	12 (300) @ 90°	SOLID	WHITE	2' (600) APART
STOP LINES	24 (600)	SOLID	WHITE	SEE TYPICAL CROSSWALK MARKING DETAILS.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45°	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

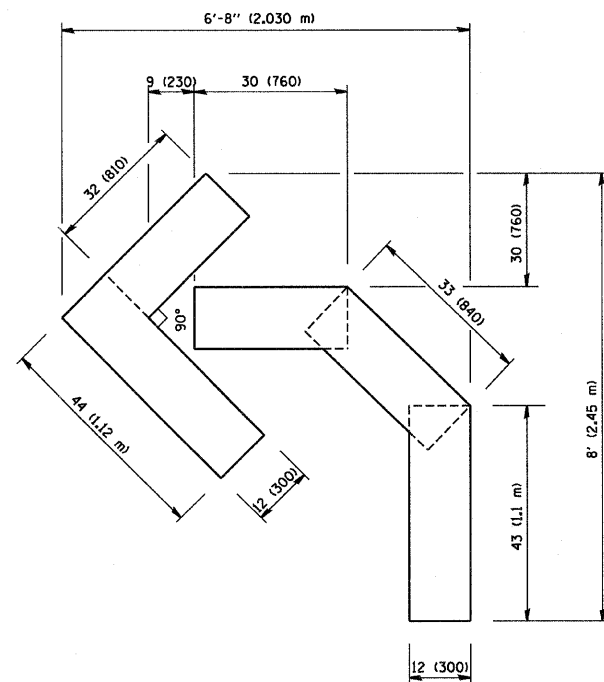
All dimensions are in inches (millimeters) unless otherwise shown.



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



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



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

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

FILE NAME = W:\data\22x34\to16.dgn	USER NAME = geglent	DESIGNED -	REVISED -T. RAMMACHER 06-05-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING			F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50,000 / IN.	DRAWN -	REVISED -T. RAMMACHER 11-04-97					2836	06-000090-00-FP	COOK	200	172
	PLOT DATE = 1/4/2008	CHECKED -	REVISED -T. RAMMACHER 03-02-98		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	TC-16		CONTRACT NO. 63635	
	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		M-8003(661)			

ROUTE MARKERS

FOR U.S. ROUTES
MI-40-2424

FOR ILLINOIS ROUTES
MI-50-2424

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

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

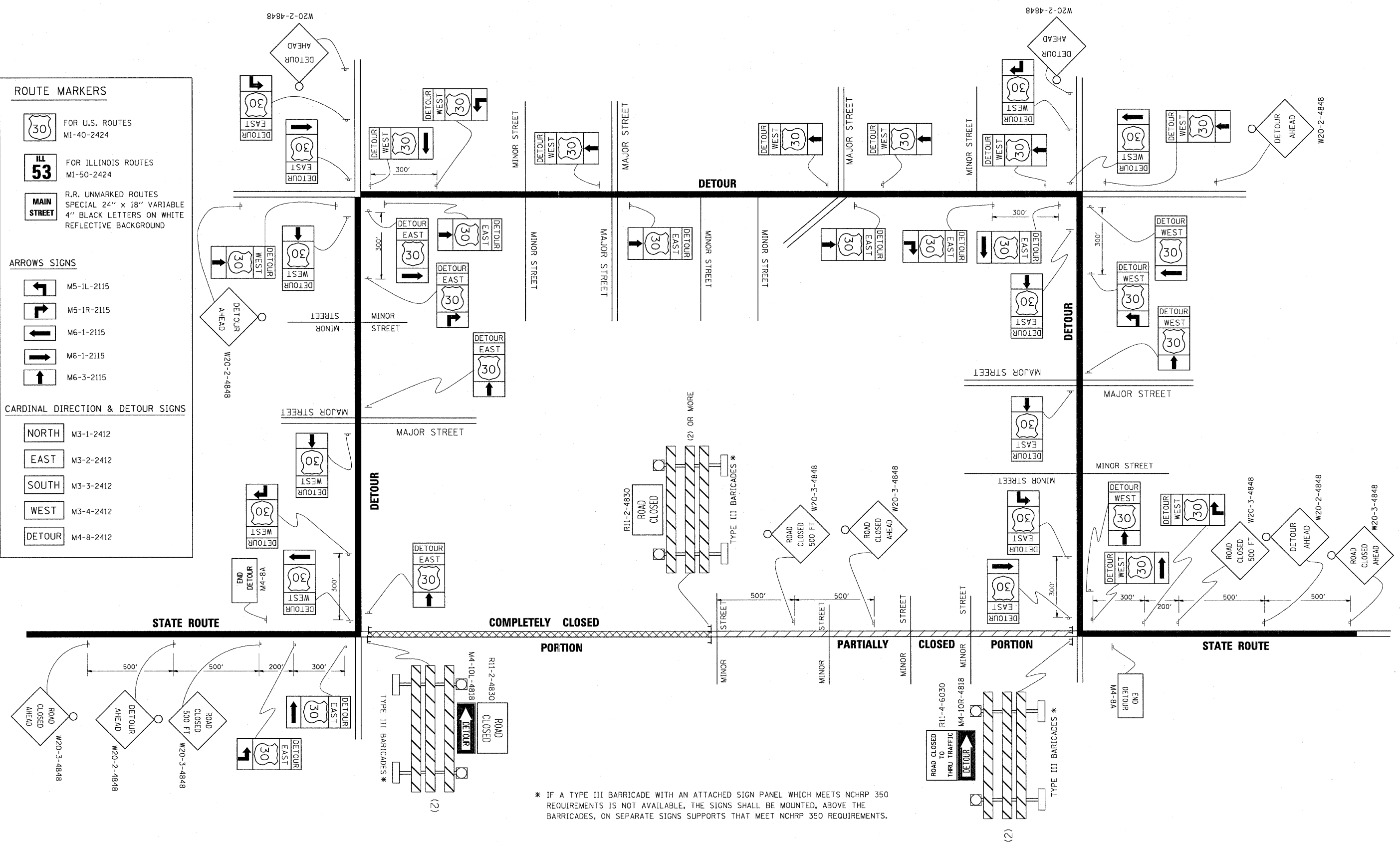
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

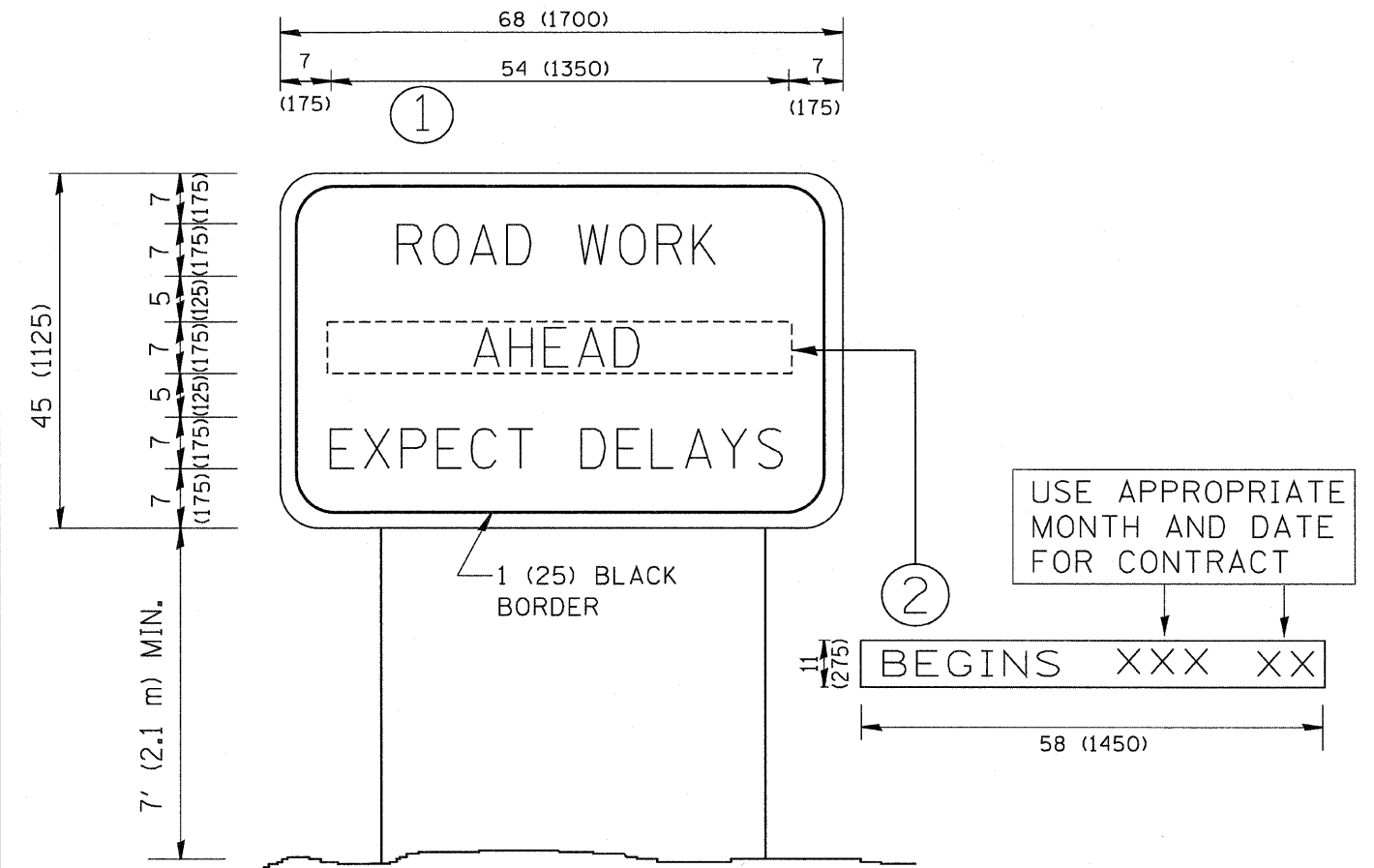
WEST M3-4-2412

DETOUR M4-8-2412



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

FILE NAME =	USER NAME = drivakosgn	DESIGNED -	REVISED - 10-18-02	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
os\pw_work\PW\DOT\DRIVAKOSGN\0108315\21.dgn		DRAWN -	REVISED - R. BORO 09-14-09		2836	06-000090-00-EP	COOK	200	173			
		CHECKED -	REVISED -		TC-21			CONTRACT NO. 63635				
		DATE -	REVISED -		FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			M-8003(661)				
				SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.			



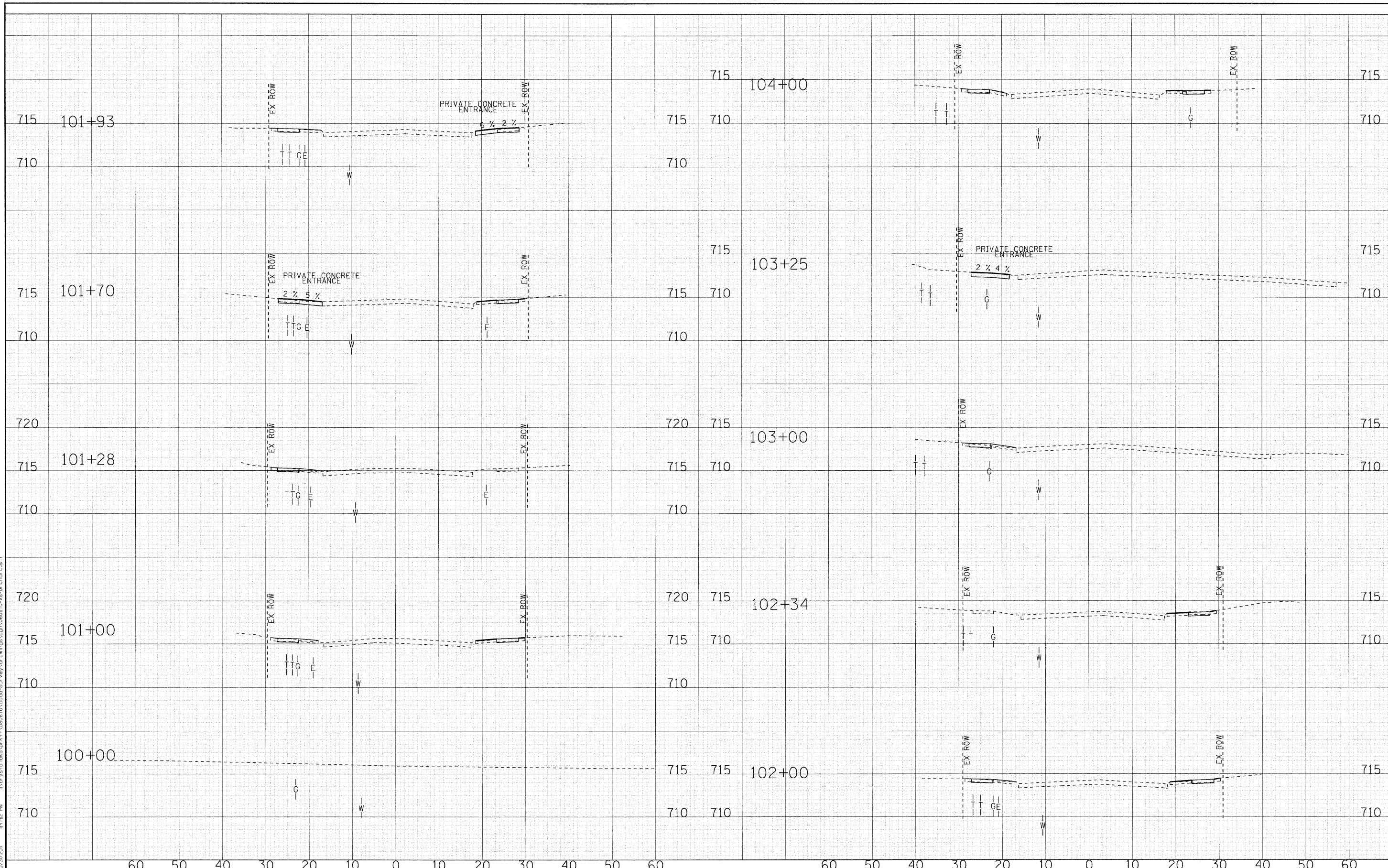
NOTES:

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

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

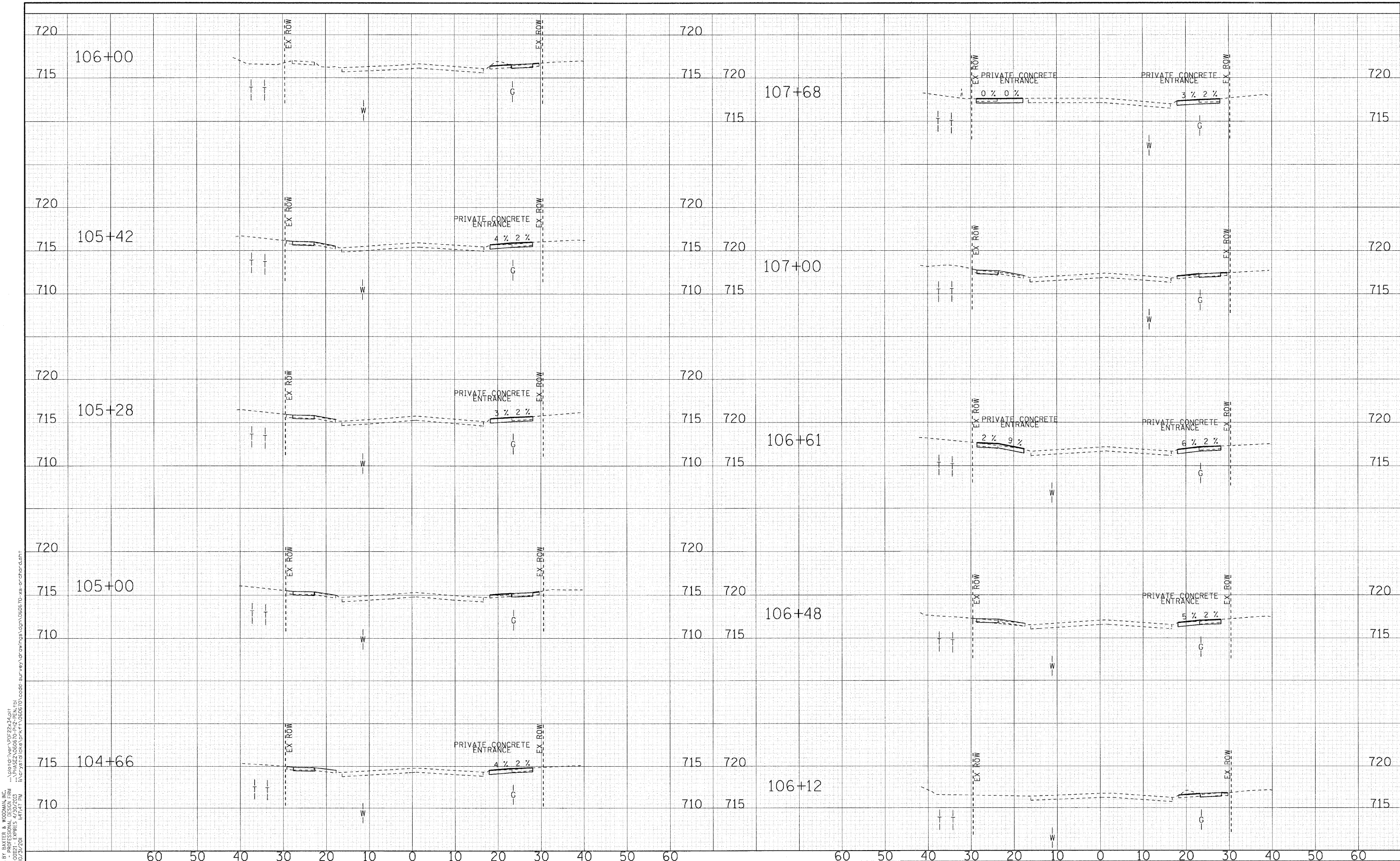
FILE NAME = W:\diststd\22x34\to22.dgn	USER NAME = gegltonbt	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN	F.A.R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - R. MIRS 12-11-97			2836	06-000090-00-FP	COOK	200	174
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - T. RAMMACHER 02-02-99			TC-22		CONTRACT NO. 63635		M-8003 (661)
	DATE -	REVISED - C. JUCLUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		

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60 50 40 30 20 10 0 10 20 30 40 50 60	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESIGNED - REW</td> <td>REVISED -</td> </tr> <tr> <td>DRAWN - MAC</td> <td>REVISED -</td> </tr> <tr> <td>CHECKED - TAO</td> <td>REVISED -</td> </tr> <tr> <td>DATE - 10/24/11</td> <td>REVISED -</td> </tr> </table>	DESIGNED - REW	REVISED -	DRAWN - MAC	REVISED -	CHECKED - TAO	REVISED -	DATE - 10/24/11	REVISED -	STATE OF ILLINOIS ORCHARD DRIVE IMPROVEMENTS	CROSS SECTIONS ORCHARD DRIVE	STA. 100+00 TO STA. 104+00	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>F.A.J. RTE.</td> <td>SECTION</td> <td>COUNTY</td> <td>TOTAL SHEETS</td> <td>SHEET NO.</td> </tr> <tr> <td>2836</td> <td>06-00090-00-FP</td> <td>COOK</td> <td>200</td> <td>175</td> </tr> <tr> <td colspan="5" style="text-align: center;">CONTRACT NO. 63635</td> </tr> <tr> <td colspan="5" style="text-align: center;">FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-8003661</td> </tr> </table>	F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	2836	06-00090-00-FP	COOK	200	175	CONTRACT NO. 63635					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-8003661				
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2836	06-00090-00-FP	COOK	200	175																													
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FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-8003661																																	

SCALE: H: 1"=10' V: 1"=5'



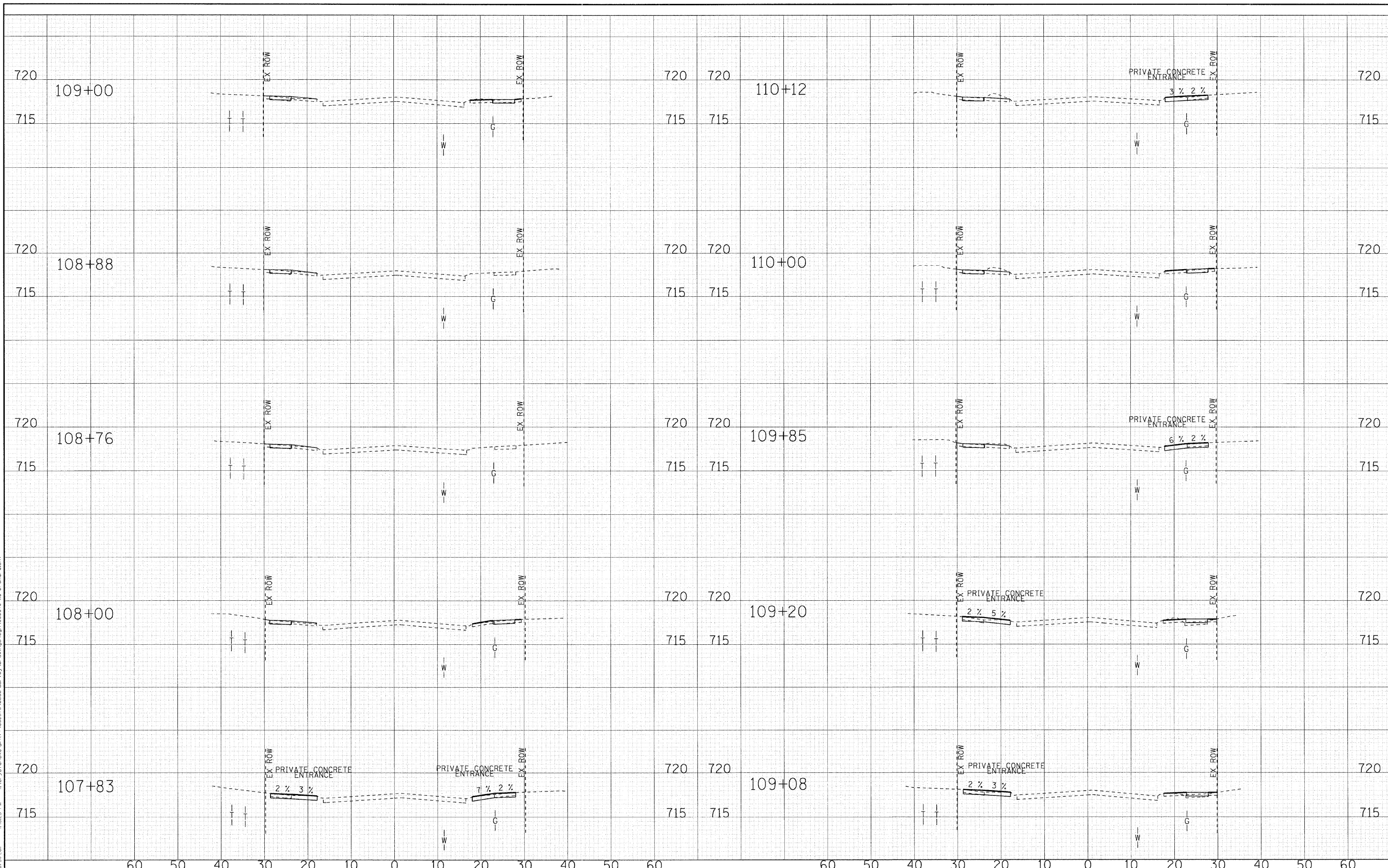
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CHECKED - TAO	REVISED -
DATE - 10/24/11	REVISED -

**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

CROSS SECTIONS ORCHARD DRIVE		F.A.U. RTE. 2836	SECTION 06-00090-00-FP	COUNTY COOK	TOTAL SHEETS 200	SHEET NO. 176
SCALE: H: 1"=10' V: 1"=5'		STA. 104+66 TO STA. 107+68		FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT W-8003661		

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 PROJECT: I-55/US 41/US 151/US 159/US 159A/US 159B/US 159C/US 159D/US 159E/US 159F/US 159G/US 159H/US 159I/US 159J/US 159K/US 159L/US 159M/US 159N/US 159O/US 159P/US 159Q/US 159R/US 159S/US 159T/US 159U/US 159V/US 159W/US 159X/US 159Y/US 159Z/US 159AA/US 159AB/US 159AC/US 159AD/US 159AE/US 159AF/US 159AG/US 159AH/US 159AI/US 159AJ/US 159AK/US 159AL/US 159AM/US 159AN/US 159AO/US 159AP/US 159AQ/US 159AR/US 159AS/US 159AT/US 159AU/US 159AV/US 159AW/US 159AX/US 159AY/US 159AZ/US 159BA/US 159BB/US 159BC/US 159BD/US 159BE/US 159BF/US 159BG/US 159BH/US 159BI/US 159BJ/US 159BK/US 159BL/US 159BM/US 159BN/US 159BO/US 159BP/US 159BQ/US 159BR/US 159BS/US 159BT/US 159BU/US 159BV/US 159BW/US 159BX/US 159BY/US 159BZ/US 159CA/US 159CB/US 159CC/US 159CD/US 159CE/US 159CF/US 159CG/US 159CH/US 159CI/US 159CJ/US 159CK/US 159CL/US 159CM/US 159CN/US 159CO/US 159CP/US 159CQ/US 159CR/US 159CS/US 159CT/US 159CU/US 159CV/US 159CW/US 159CX/US 159CY/US 159CZ/US 159DA/US 159DB/US 159DC/US 159DD/US 159DE/US 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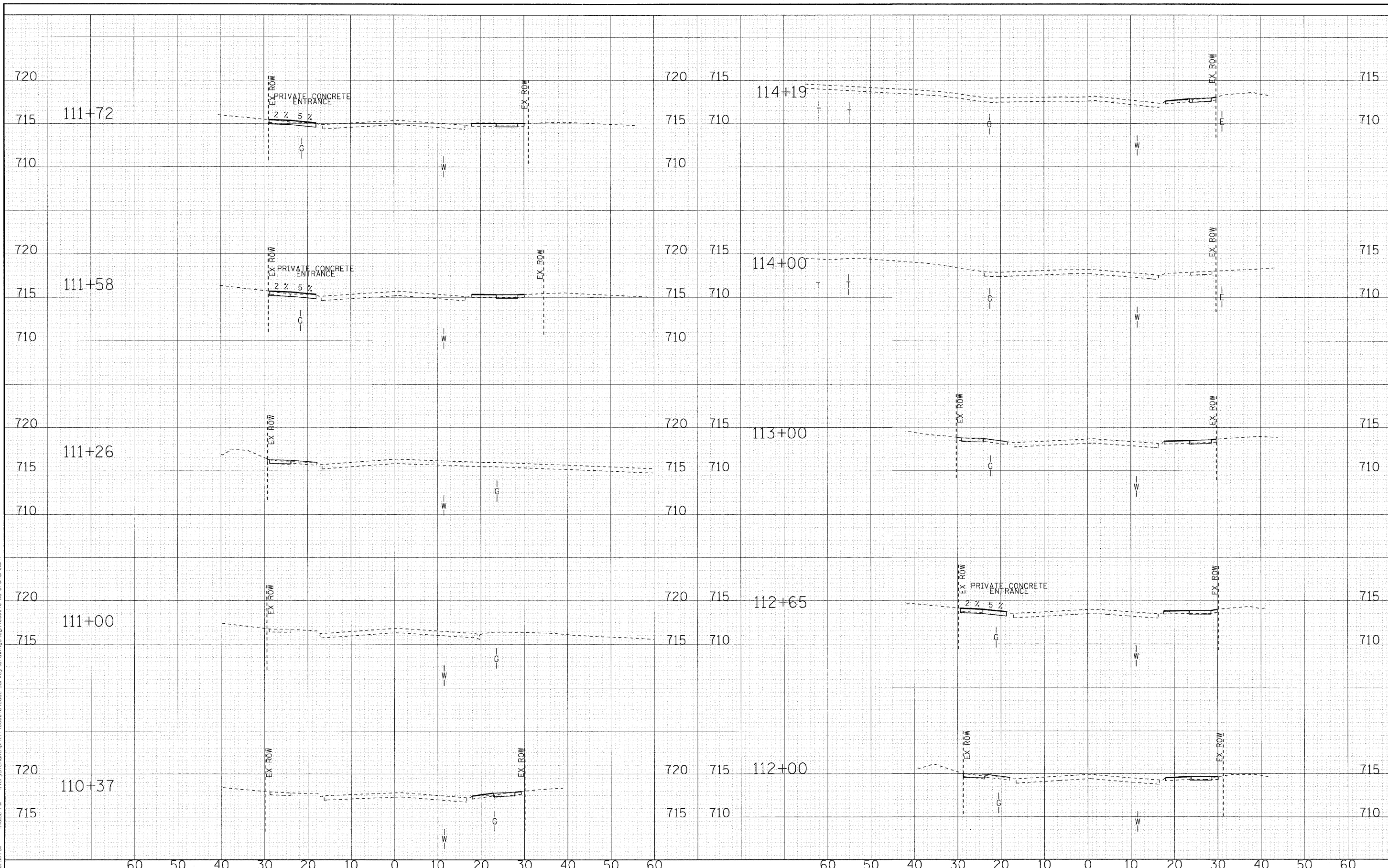


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DATE -	10/24/11	REVISED -	

**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

CROSS SECTIONS ORCHARD DRIVE		F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		2836	06-00090-00-FP	COOK	200	177
SCALE: H: 1"=10' V: 1"=5'		STA. 107+83 TO STA. 110+12		CONTRACT NO. 63635		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-80031661						

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DATE - 10/24/11	REVISED -

**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

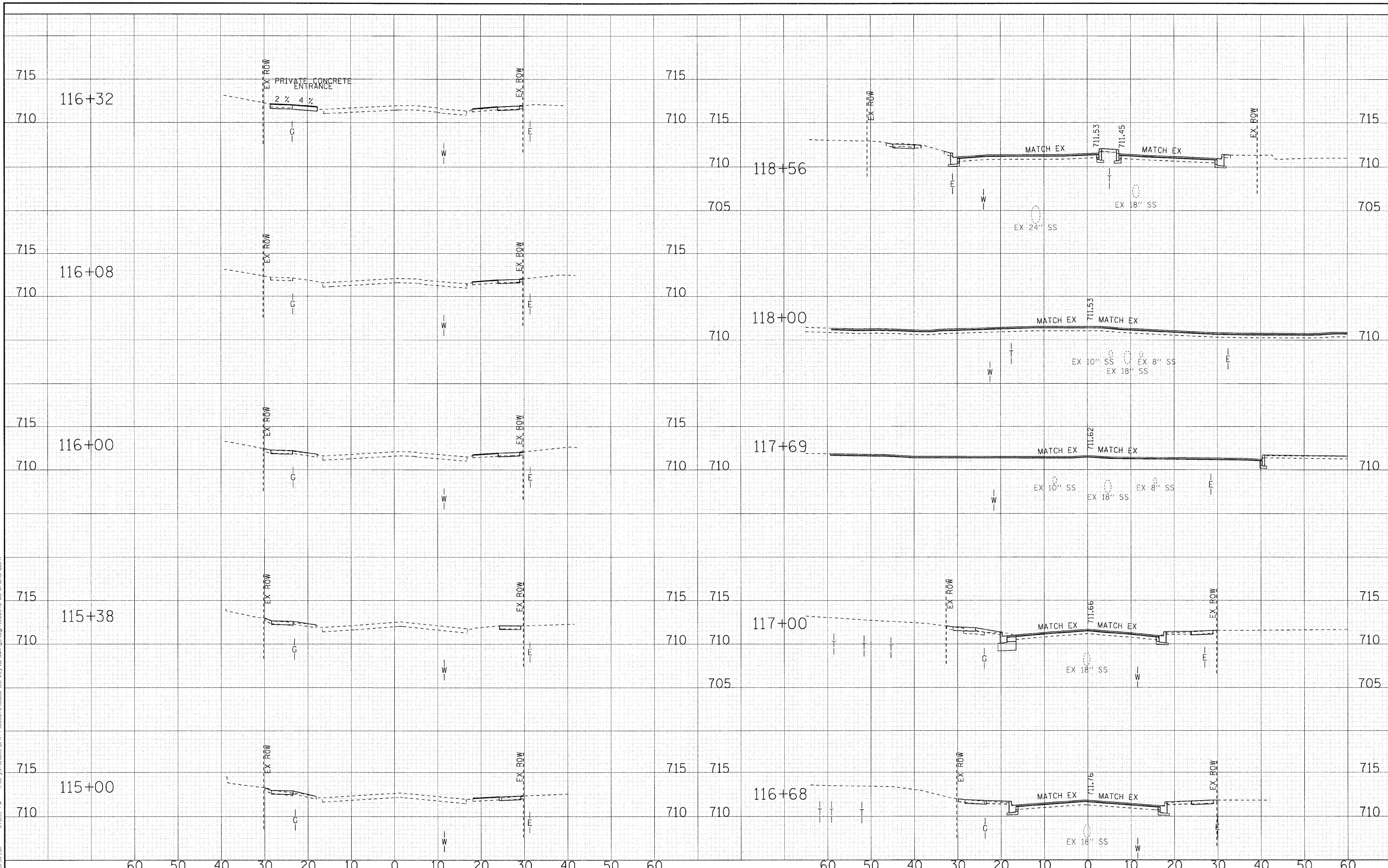
**CROSS SECTIONS
ORCHARD DRIVE**

SCALE: H: 1"=10' V: 1"=5'

STA. 110+37 TO STA. 114+19

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	178
CONTRACT NO. 63635			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-80031661	

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**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

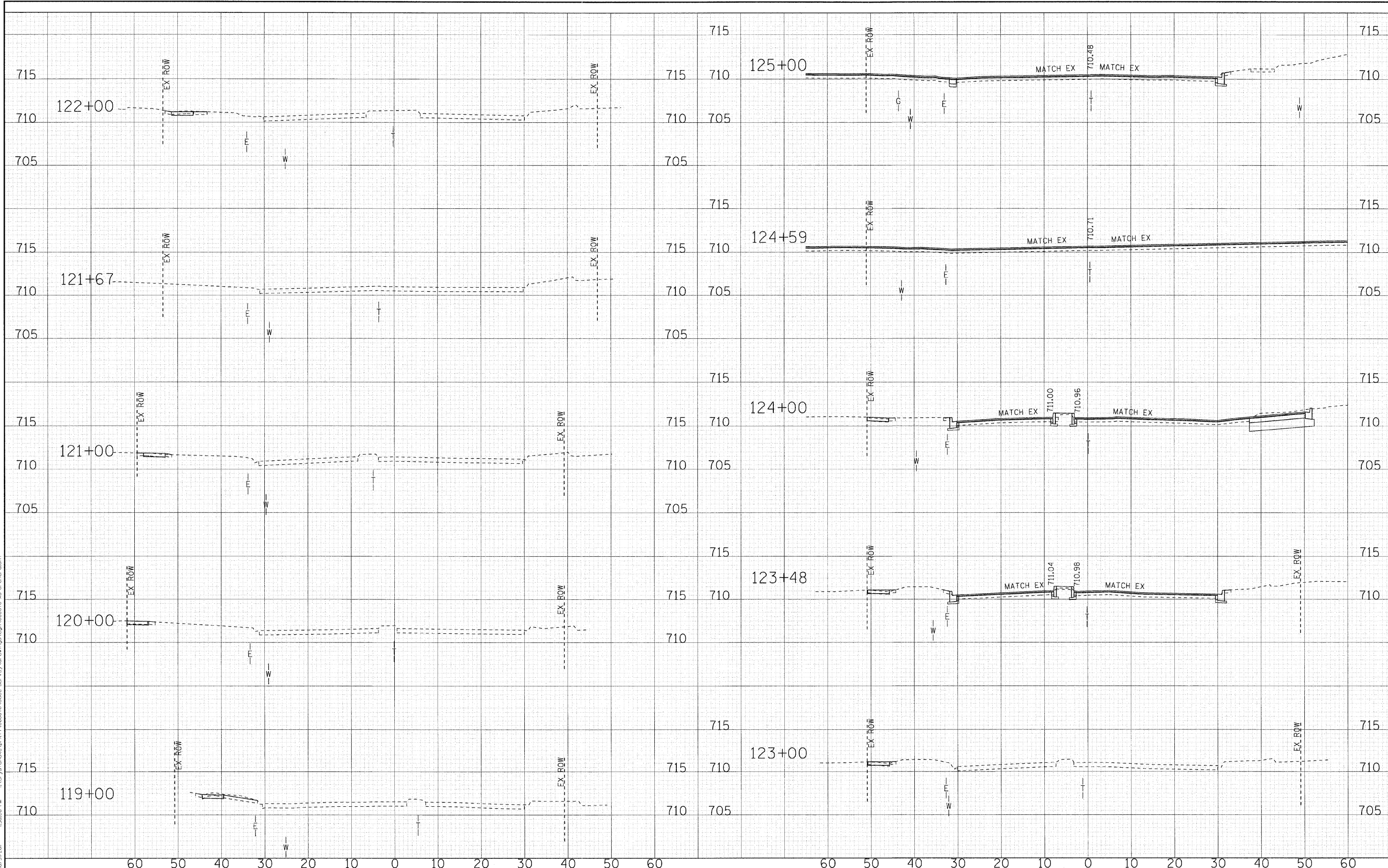
**CROSS SECTIONS
ORCHARD DRIVE**

SCALE: H: 1"=10' V: 1"=5'

STA. 115+00 TO STA. 118+56

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	179
CONTRACT NO. 63635			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT W-80031661	

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DRAWN - MAC	REVISED -
CHECKED - TAO	REVISED -
DATE - 10/24/11	REVISED -

**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

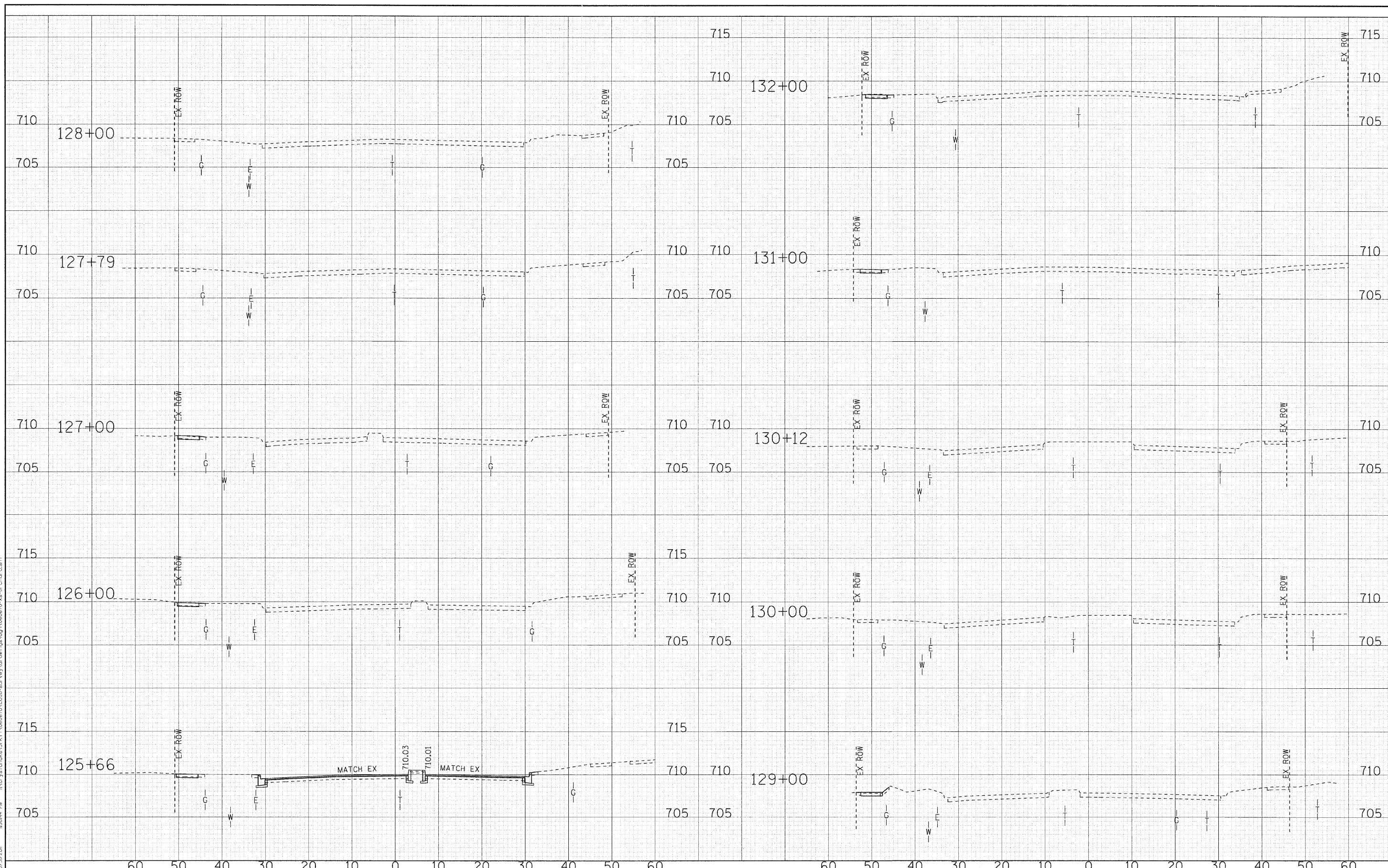
**CROSS SECTIONS
ORCHARD DRIVE**

SCALE: H_z 1"=10' V_z 1"=5'

STA. 119+00 TO STA. 125+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	180
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT W-8003(661)			CONTRACT NO. 63635	

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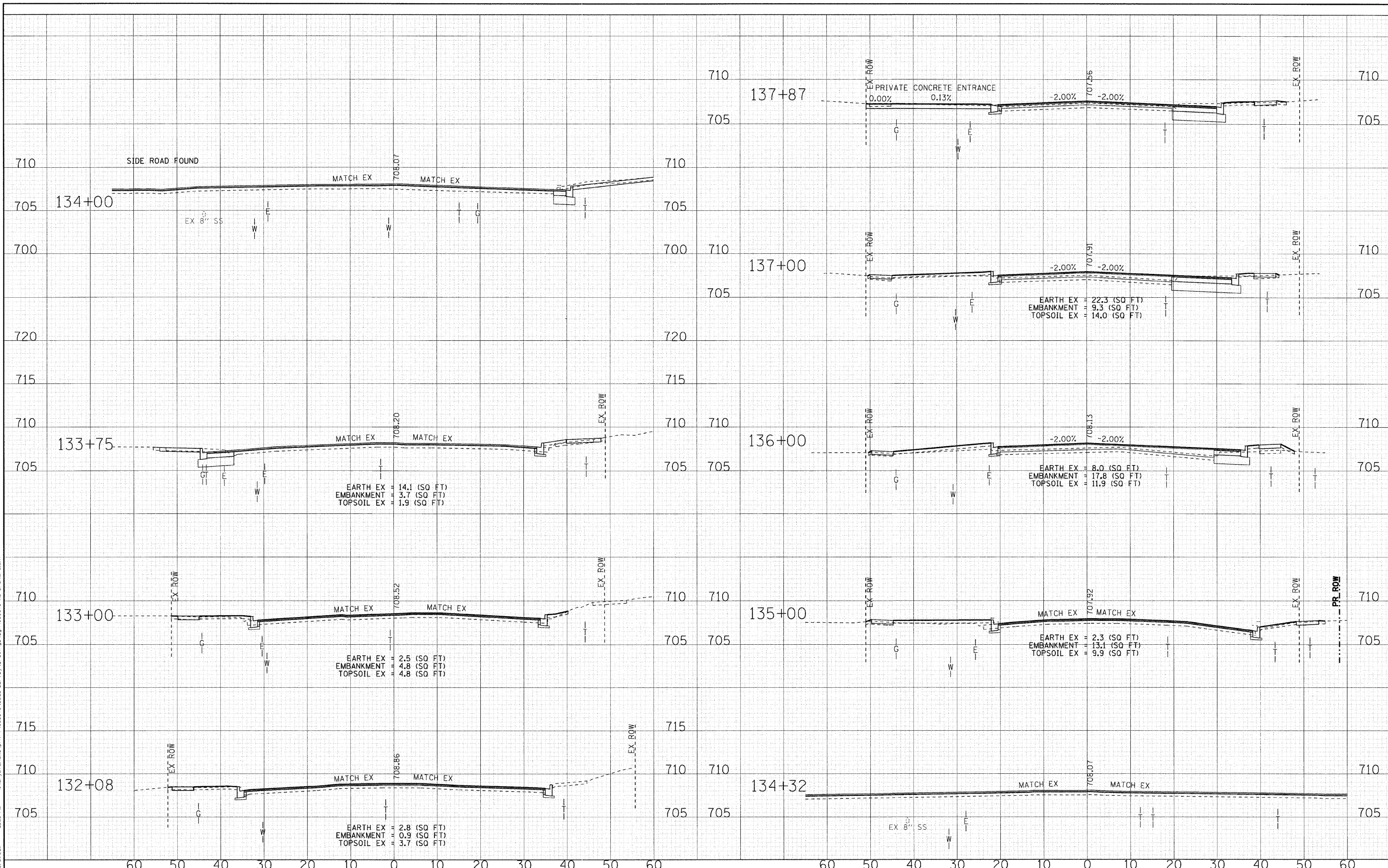
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CHECKED - TAO	REVISED -
DATE - 10/24/11	REVISED -

STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS

CROSS SECTIONS
ORCHARD DRIVE
 SCALE: H: 1"=10' V: 1"=5'
 STA. 125+66 TO STA. 132+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	181
CONTRACT NO. 63635			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-8003661	

DESIGNED BY: BAYNE & BORDMAN, INC.
 STATE OF ILLINOIS
 LICENSE NO.: 06-00090-00-PP
 DATE: 10/24/11



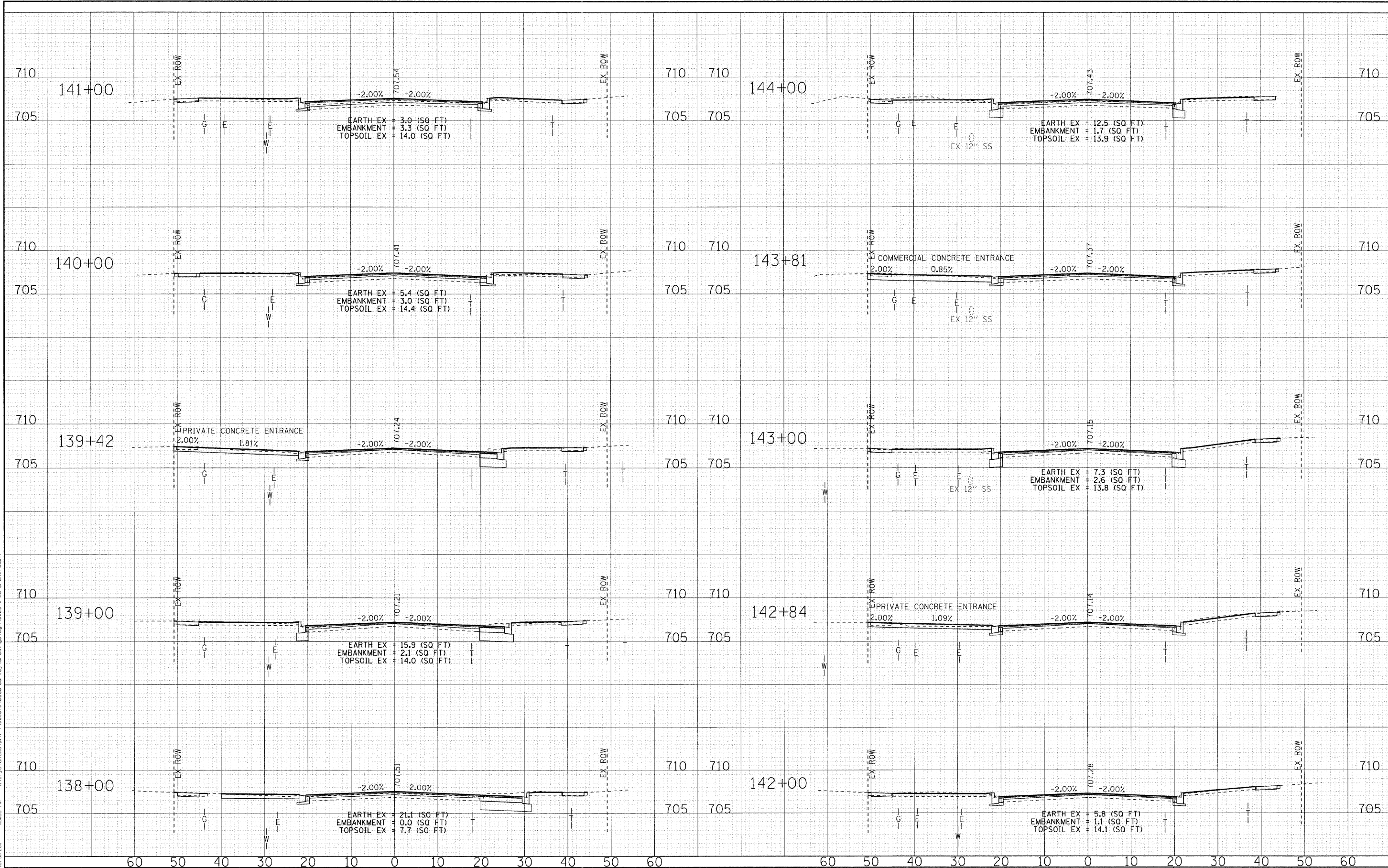
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DRAWN - MAC	REVISED -
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DATE - 10/24/11	REVISED -

**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

CROSS SECTIONS ORCHARD DRIVE	
SCALE: H: 1"=10' V: 1"=5'	STA. 132+08 TO STA. 137+87

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-PP	COOK	200	182
CONTRACT NO. 63635			FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT M-60031661	

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 PROJECT: I-55/203 ROW IMPROVEMENTS
 LICENSE NO. 184-0013 - EXPIRES 4/30/2013
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 DATE: 10/24/11



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**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

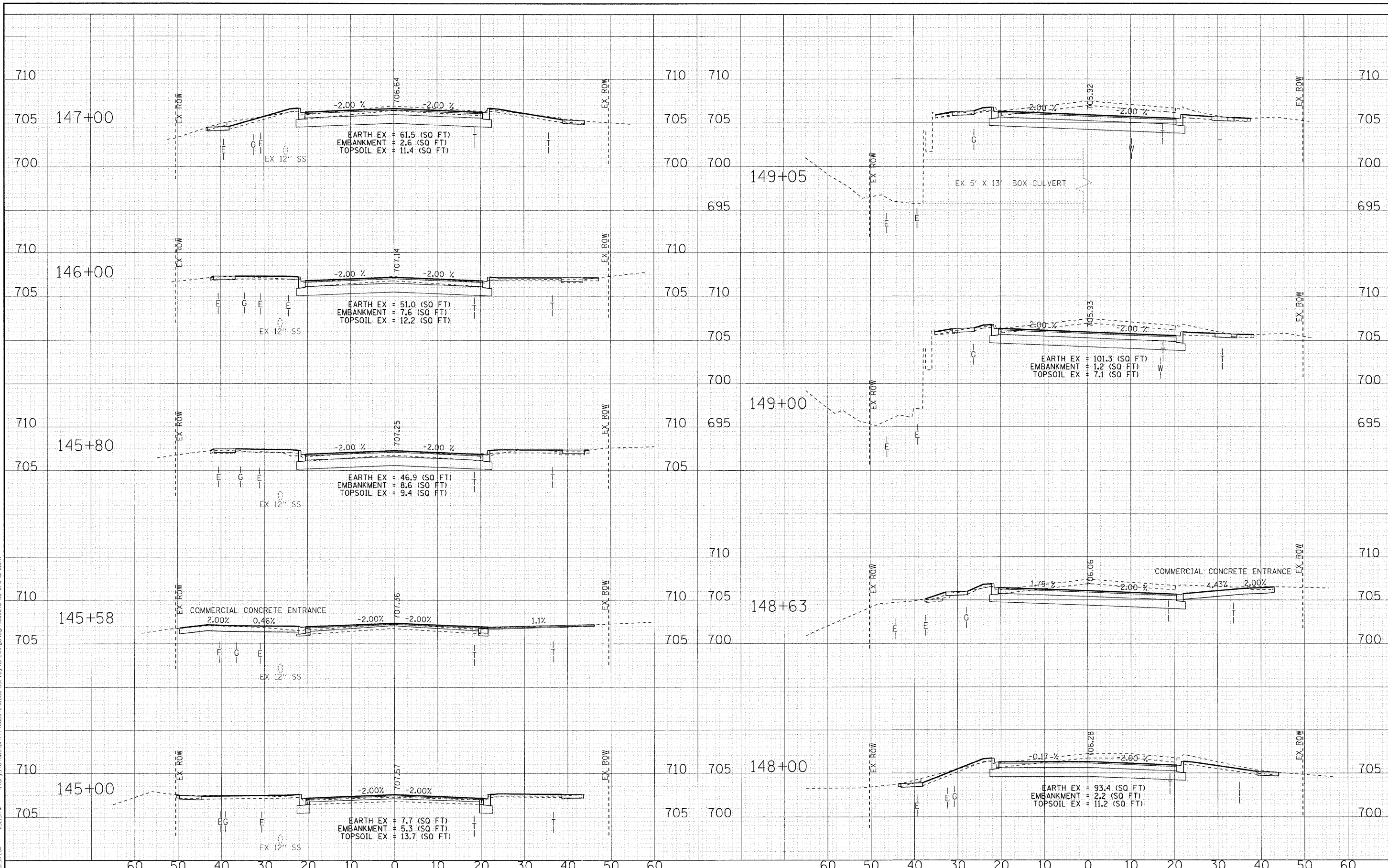
**CROSS SECTIONS
ORCHARD DRIVE**

SCALE: H: 1"=10' V: 1"=5'

STA. 138+00 TO STA. 144+00

F.A.U. RTL 2836	SECTION 06-00090-00-FP	COUNTY COOK	TOTAL SHEETS 200	SHEET NO. 183
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 63635 M-8031661	

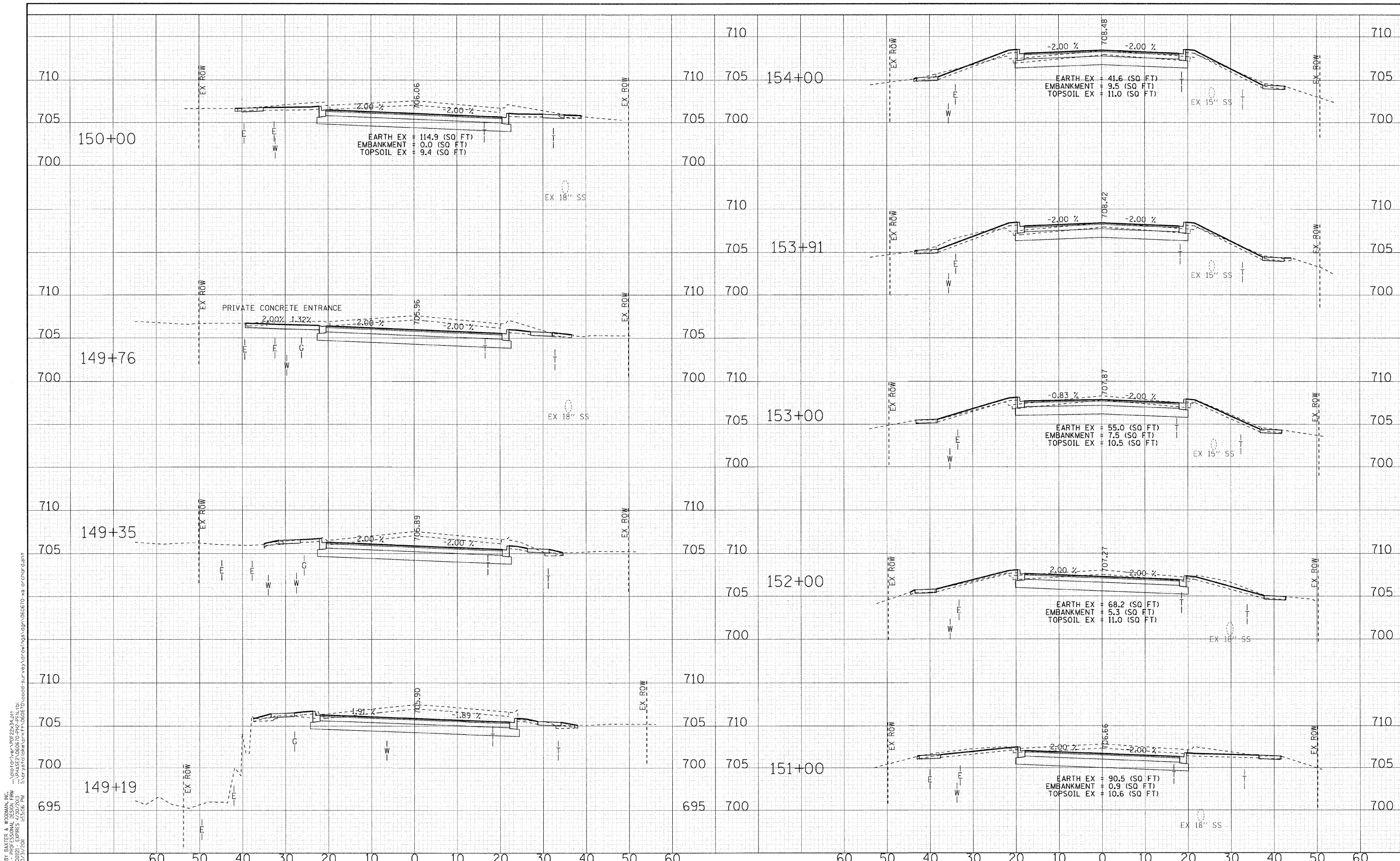
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**STATE OF ILLINOIS
 ORCHARD DRIVE IMPROVEMENTS**

CROSS SECTIONS ORCHARD DRIVE		F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		2836	06-00090-00-FP	COOK	200	184
SCALE: H: 1"=10' V: 1"=5'		STA. 145+00 TO STA. 149+05		CONTRACT NO. 63635		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT W-80031661						



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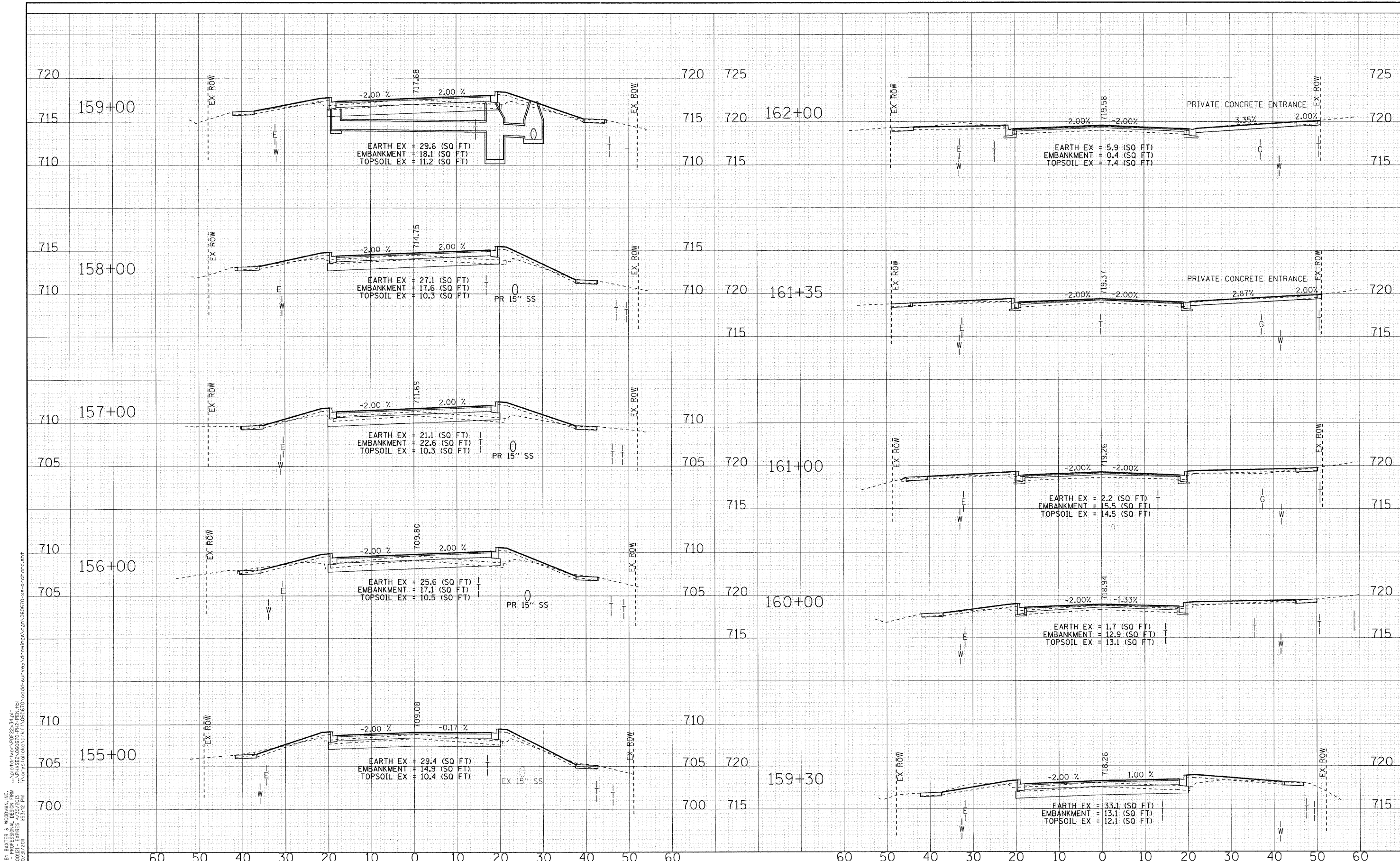
**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

**CROSS SECTIONS
ORCHARD DRIVE**

SCALE: H: 1"=10' V: 1"=5'

STA. 149+19 TO STA. 154+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-0090-00-FP	COOK	200	185
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635	
			M-8003(66)	



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DATE - 10/24/11	REVISED -

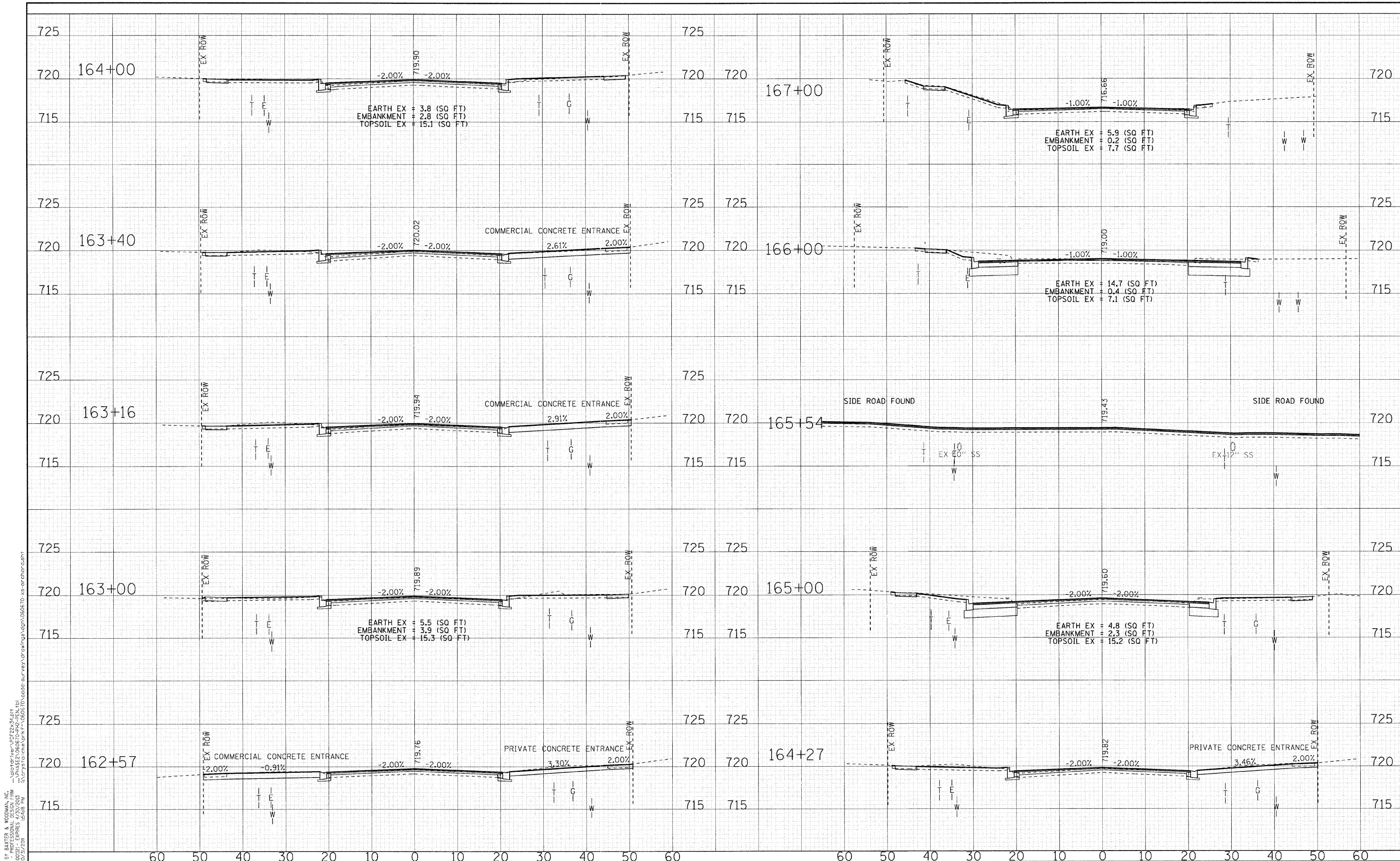
**STATE OF ILLINOIS
 ORCHARD DRIVE IMPROVEMENTS**

**CROSS SECTIONS
 ORCHARD DRIVE**

SCALE: H: 1"=10' V: 1"=5'

STA. 155+00 TO STA. 162+00

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	186
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT W-80031661			CONTRACT NO. 63635	

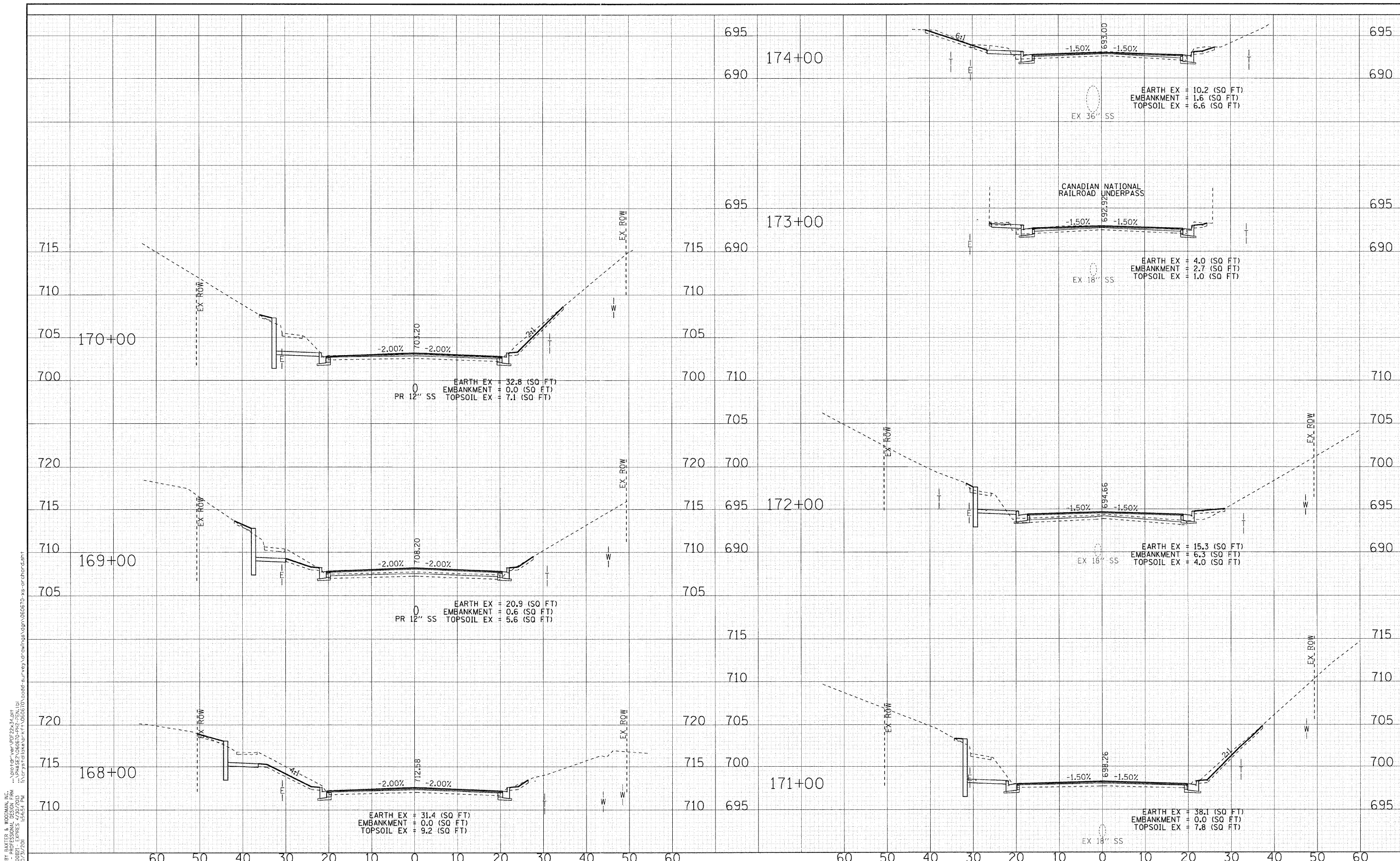


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**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

CROSS SECTIONS ORCHARD DRIVE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		2836	06-00090-00-FP	COOK	200	187
SCALE: H: 1"=10' V: 1"=5' STA. 162+57 TO STA. 167+00		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-8003661 CONTRACT NO. 63635				



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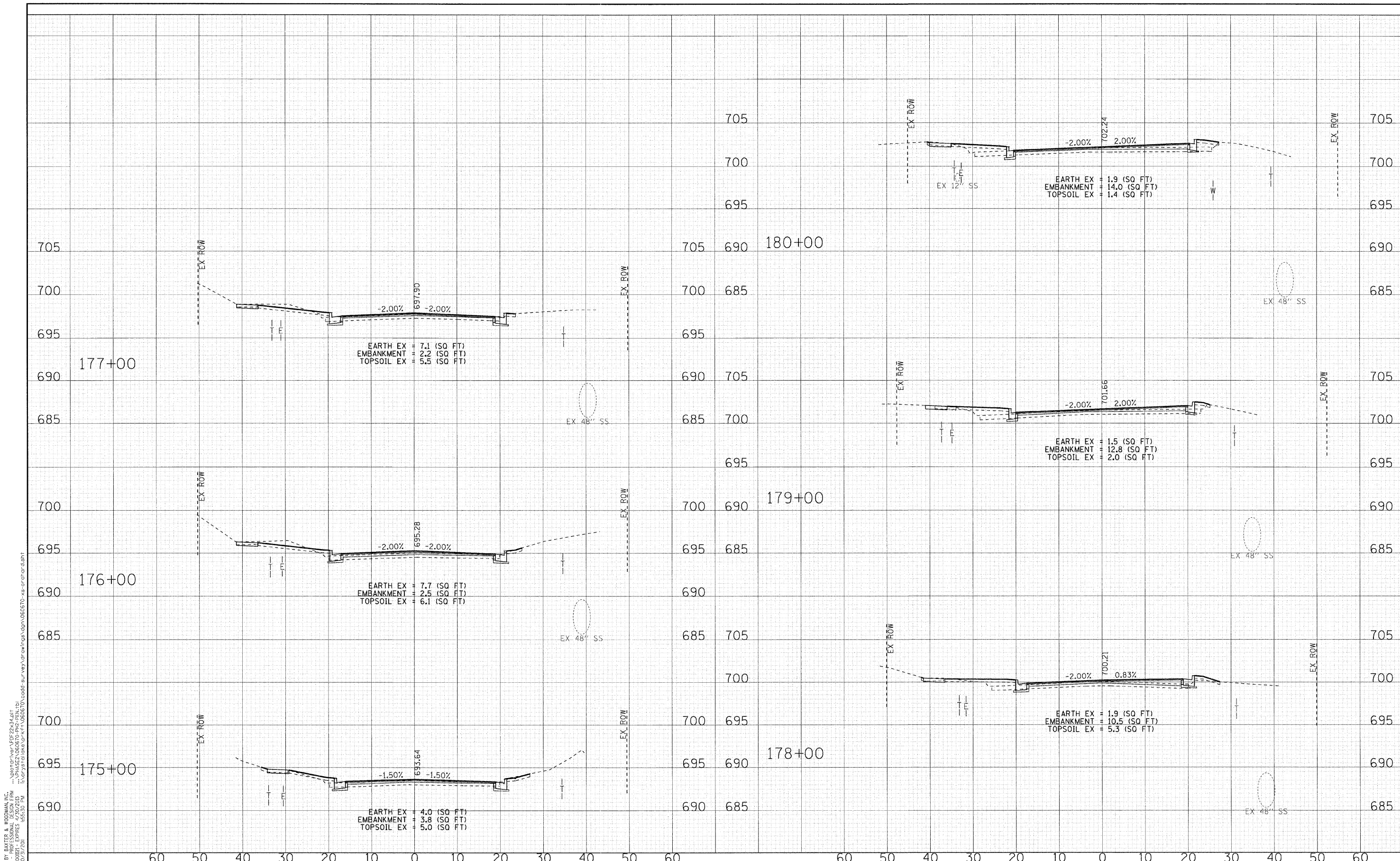
**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

**CROSS SECTIONS
ORCHARD DRIVE**

SCALE: H: 1"=10' V: 1"=5'

STA. 168+00 TO STA. 174+00

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	188
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-6003661			CONTRACT NO. 63635	



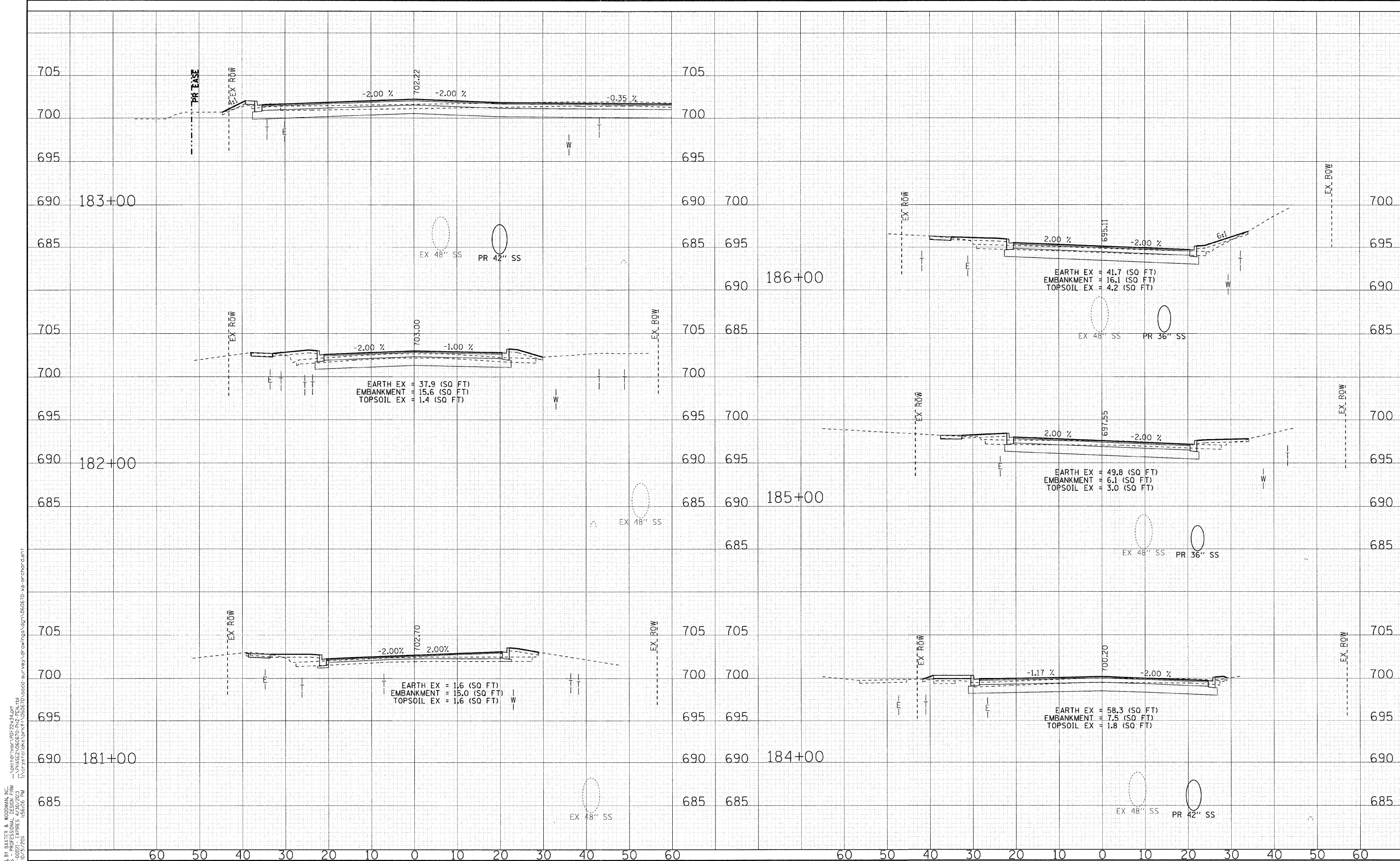
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DATE - 10/24/11	REVISED -

**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

CROSS SECTIONS ORCHARD DRIVE		
SCALE: H: 1"=10' V: 1"=5'	STA. 175+00 TO STA. 180+00	

F.A.J. RTE. 2836	SECTION 06-00090-00-FP	COUNTY COOK	TOTAL SHEETS 200	SHEET NO. 189
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT M-80031661			CONTRACT NO. 63635	



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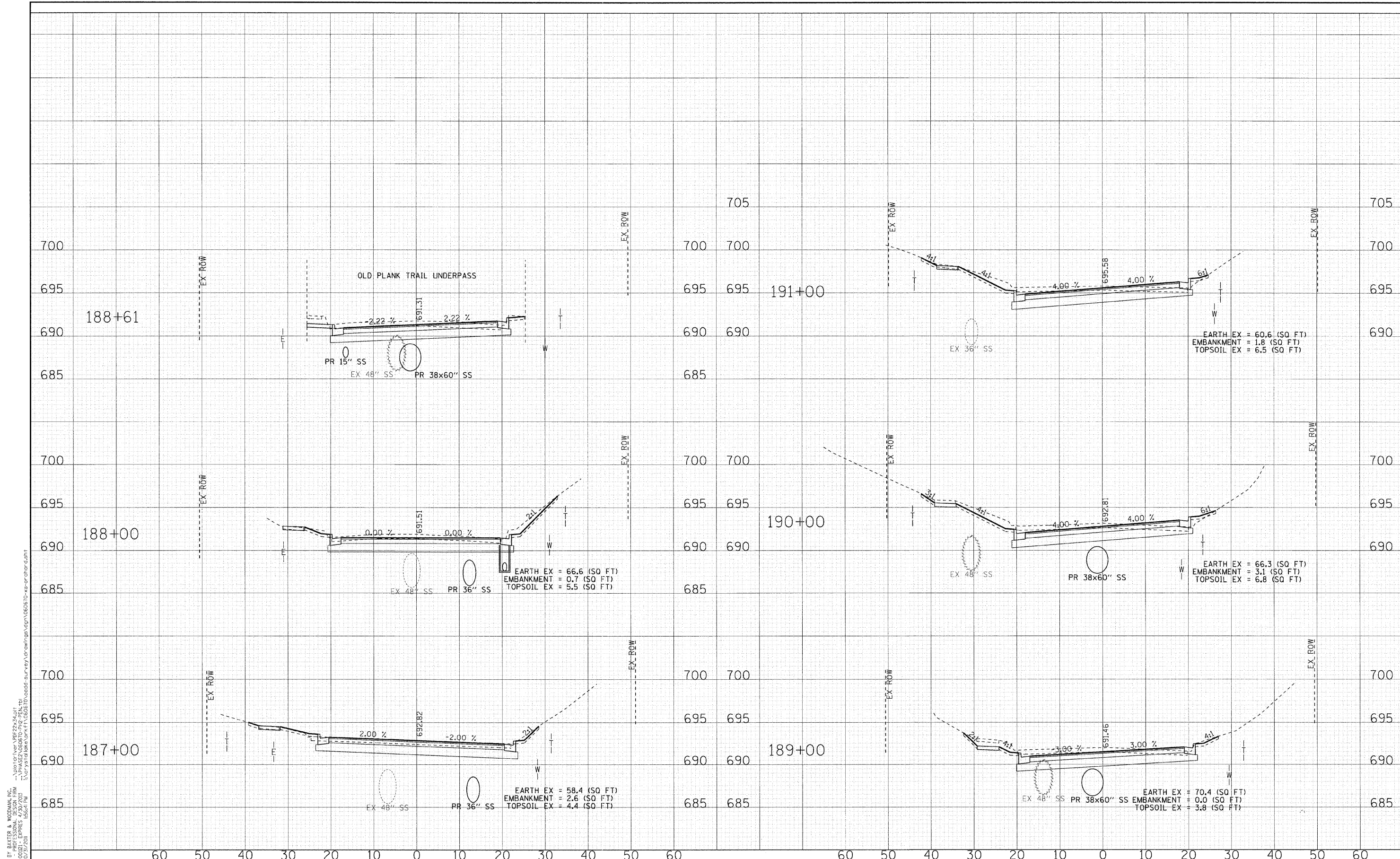
**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

**CROSS SECTIONS
ORCHARD DRIVE**

SCALE: H: 1"=10' V: 1"=5'

STA. 181+00 TO STA. 186+00

F.A.U. R.T.L.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	190
CONTRACT NO. 63635			FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT W-80031661	



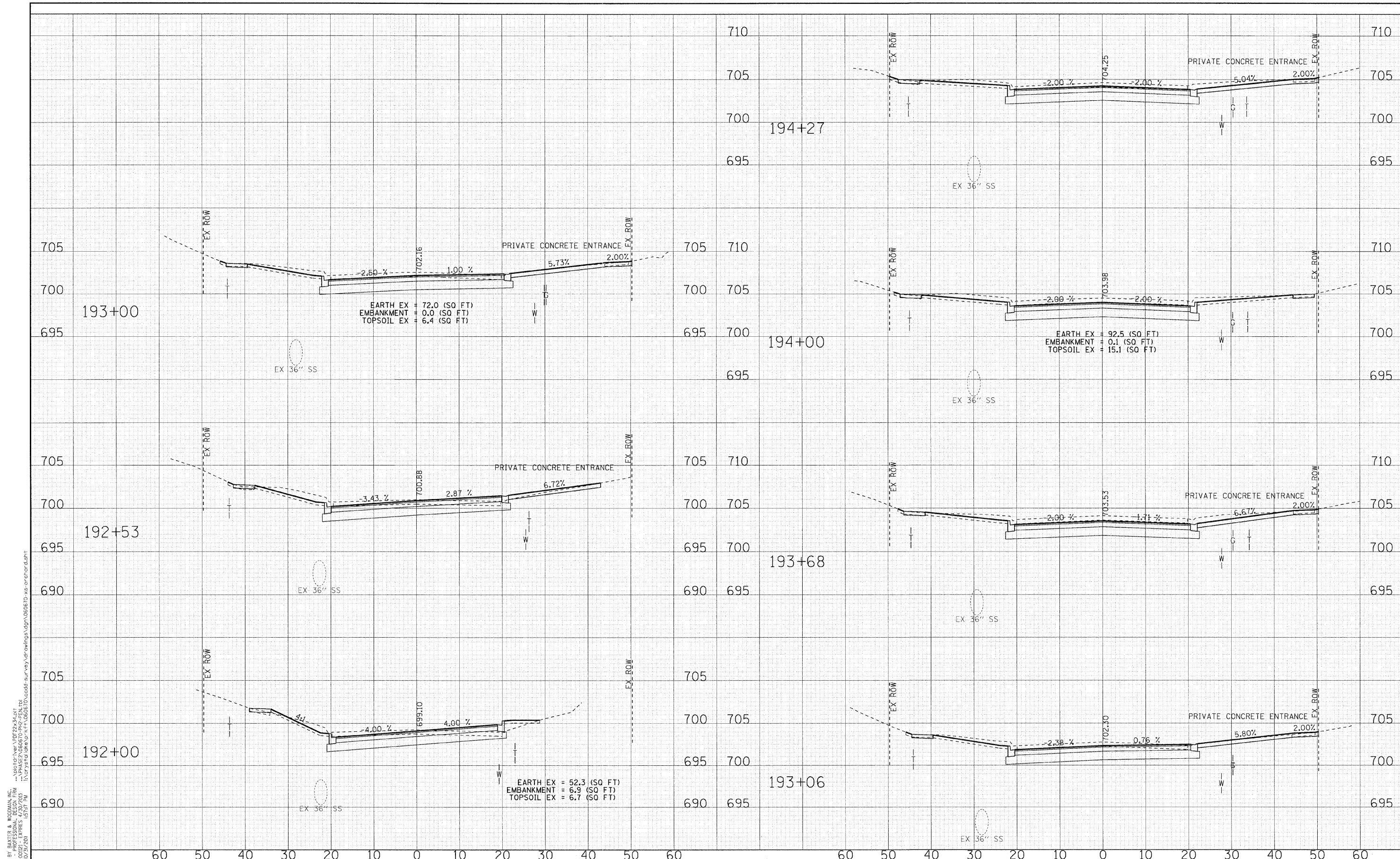
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 DATE: 10/24/11
 LICENSE NO.: 08-00021 - EXPIRES 7/30/2013
 PROJECT NO.: 06-00090-00-FP

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DATE	- 10/24/11	REVISED	-

**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

CROSS SECTIONS ORCHARD DRIVE	
SCALE: H: 1"=10' V: 1"=5'	STA. 187+00 TO STA. 191+00

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	191
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT W-8003(66)			CONTRACT NO. 63635	



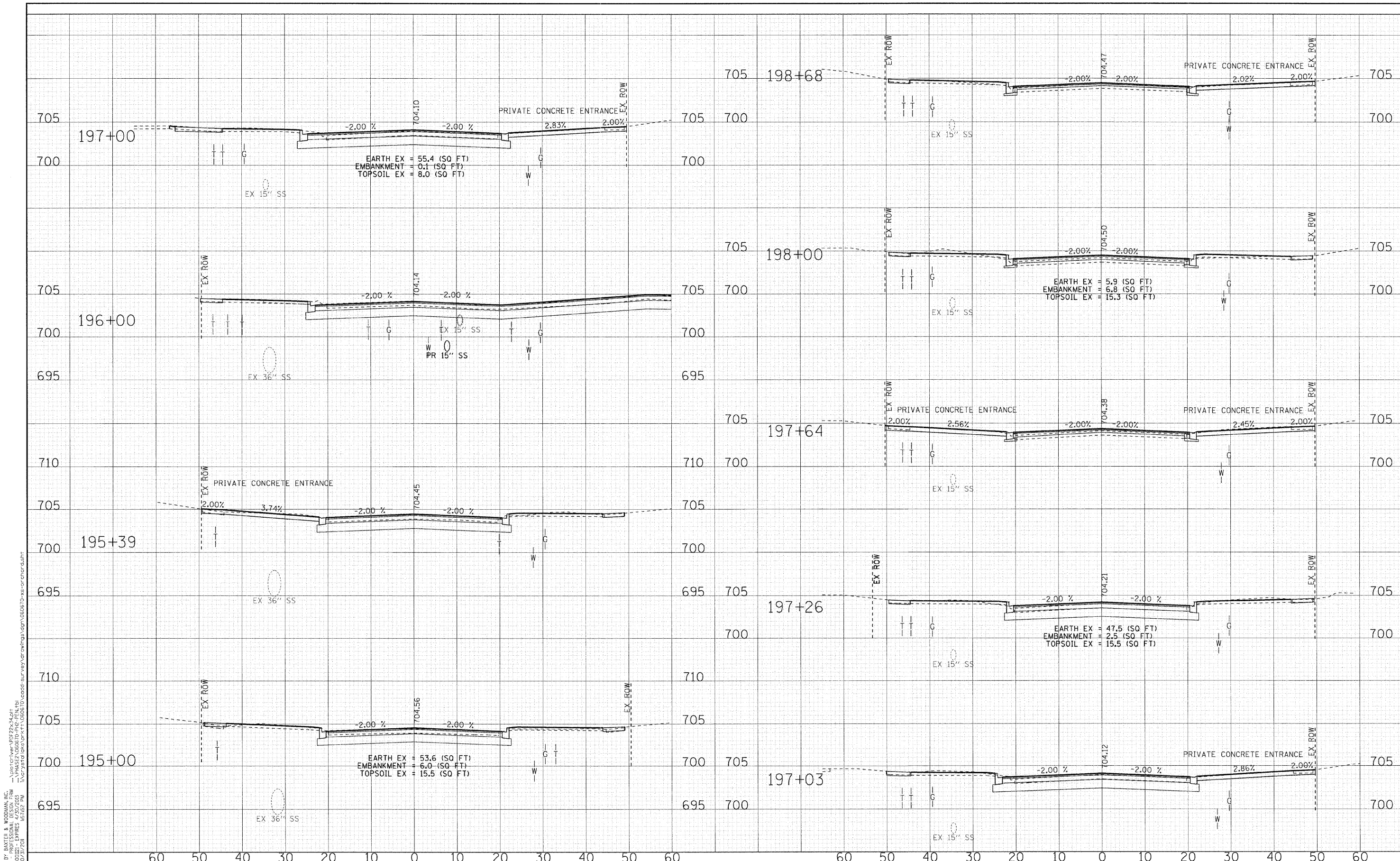
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**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

CROSS SECTIONS ORCHARD DRIVE	
SCALE: H: 1"=10' V: 1"=5'	STA. 192+00 TO STA. 194+27

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	192
CONTRACT NO. 63635			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-80031661	



10/24/11 BY: RAY, J. M. & MORGAN, J. W.
 PROJECT: ILL. STATE ROAD DIST. NO. 1
 LICENSE NO.: 88-00121 - EXPIRES 4/30/2013
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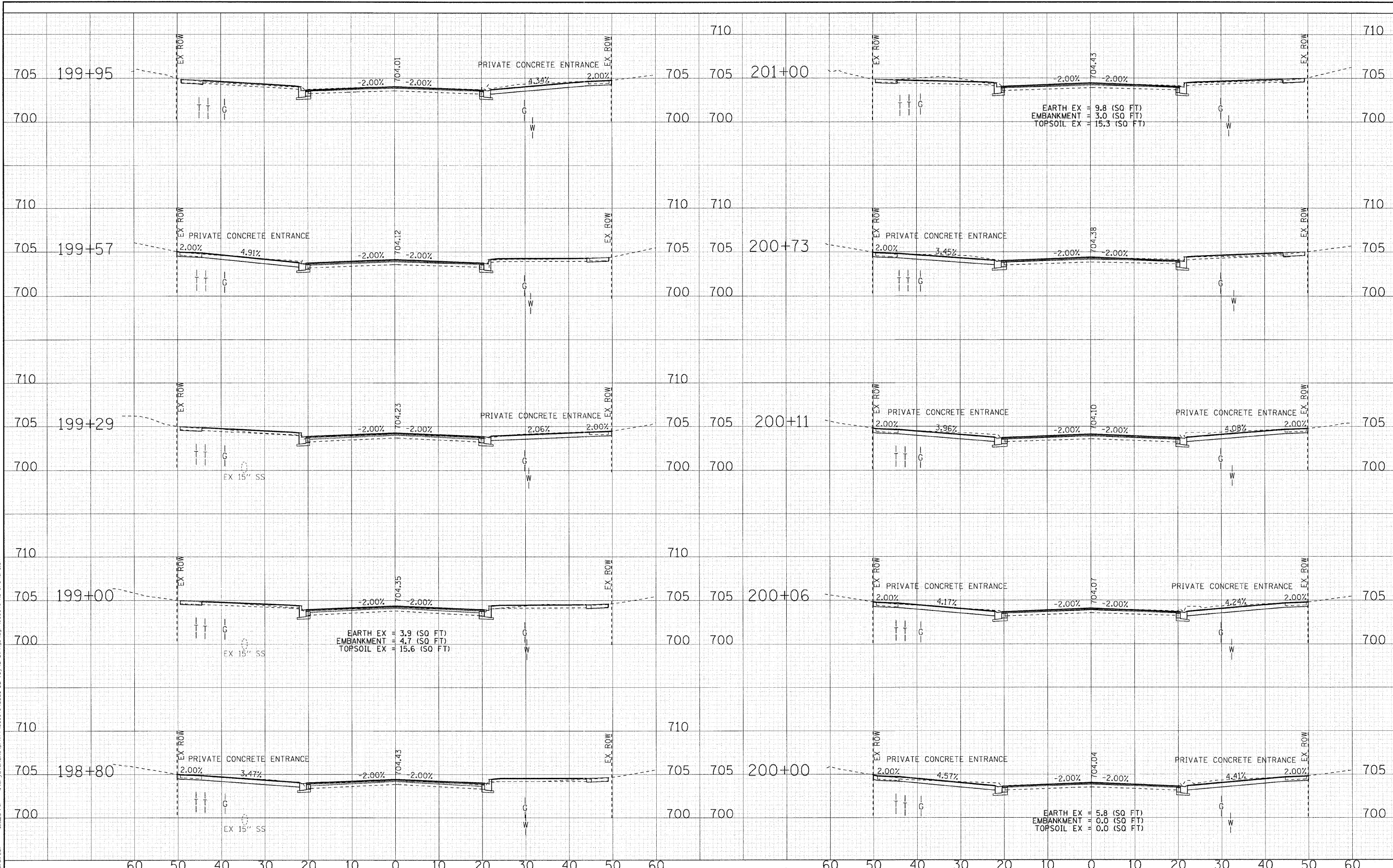
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**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

CROSS SECTIONS ORCHARD DRIVE	
SCALE: H: 1"=10' V: 1"=5'	STA. 195+00 TO STA. 198+68

F.A.J. RTE. 2836	SECTION 06-00090-00-FP	COUNTY COOK	TOTAL SHEETS 200	SHEET NO. 193
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT M-80031661		
		CONTRACT NO. 63635		

DESIGNED BY: BAYNE & WOODMAN, INC.
 STATE OF ILLINOIS PROFESSIONAL ENGINEERING LICENSE NO. 044-00121 - EXPIRES 4/30/2013
 DRAWN BY: J. J. WOODMAN
 CHECKED BY: T. A. O'NEILL
 DATE: 10/24/11

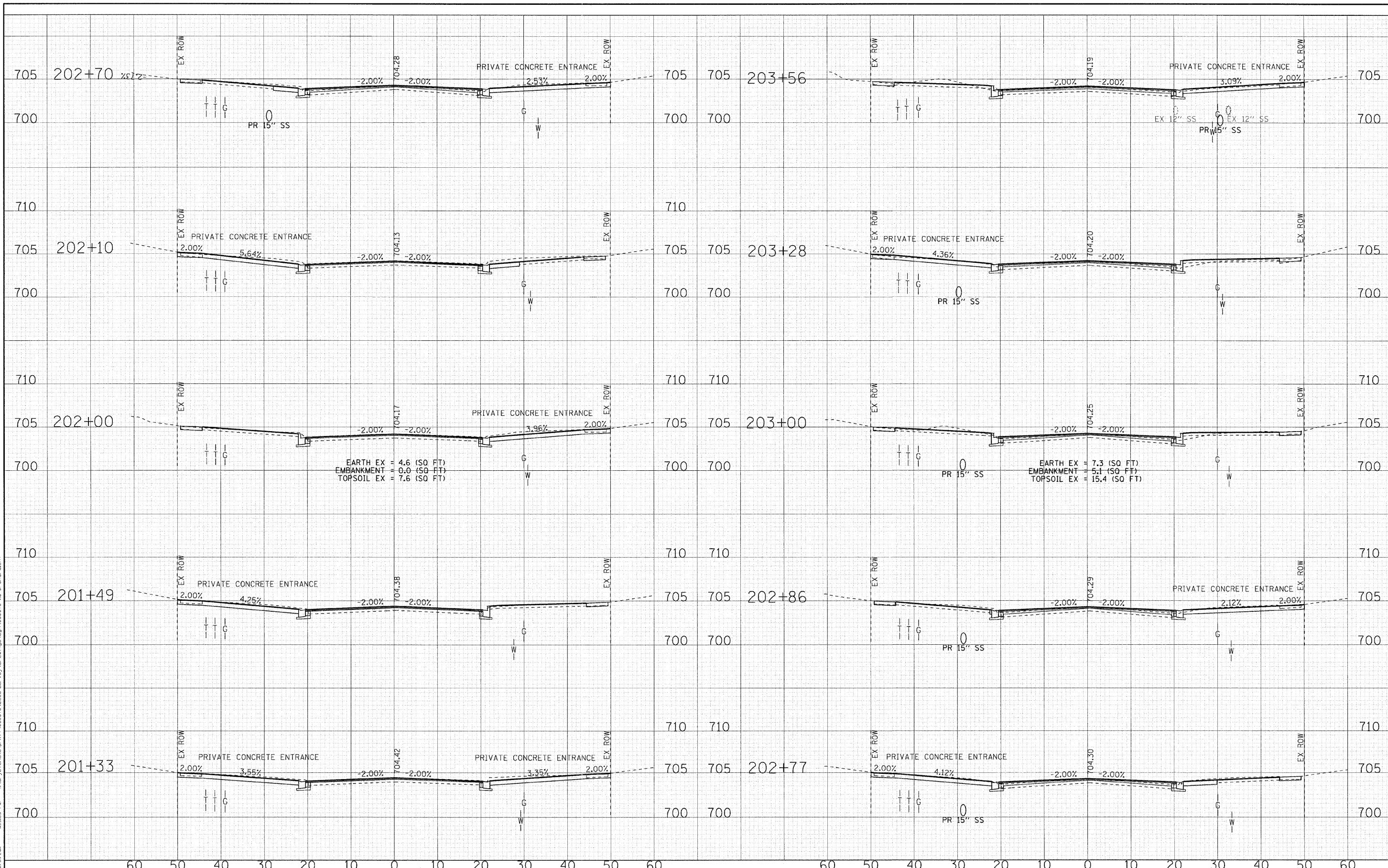


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**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

CROSS SECTIONS ORCHARD DRIVE		F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		2836	06-00090-00-FP	COOK	200	194
SCALE: H: 1"=10' V: 1"=5'		STA. 198+80 TO STA. 201+00		CONTRACT NO. 63635		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-80031661						

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 DRAWN BY: J. J. WOODMAN
 CHECKED BY: T. A. O.
 DATE: 10/24/11
 LICENSE NO.: RA-00021 - EXPIRES 7/30/2013
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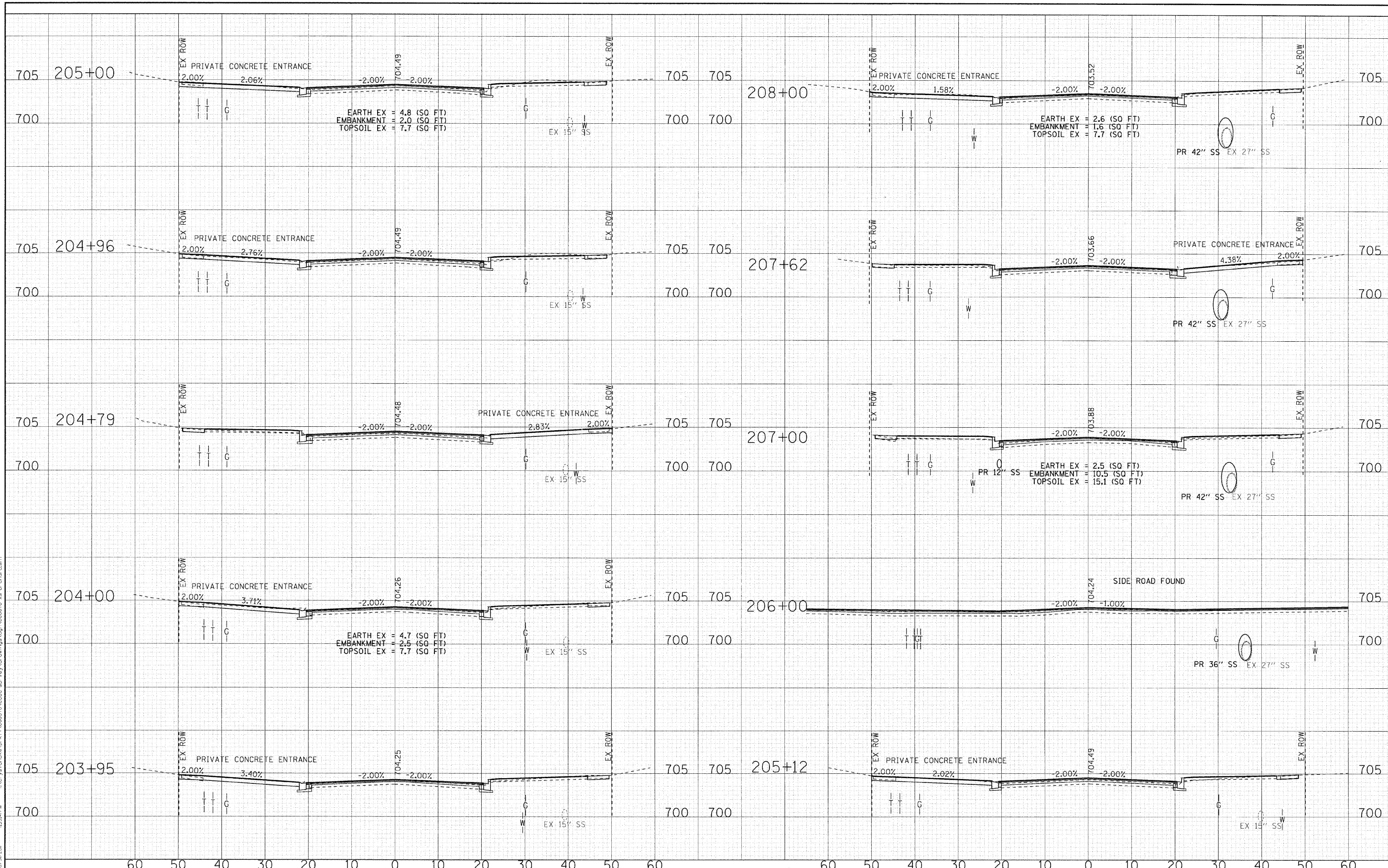
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DATE	- 10/24/11	REVISED	-

**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

CROSS SECTIONS ORCHARD DRIVE	
SCALE: H: 1"=10' V: 1"=5'	STA. 201+33 TO STA. 203+56

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	195
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635	
			M-80031661	

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**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

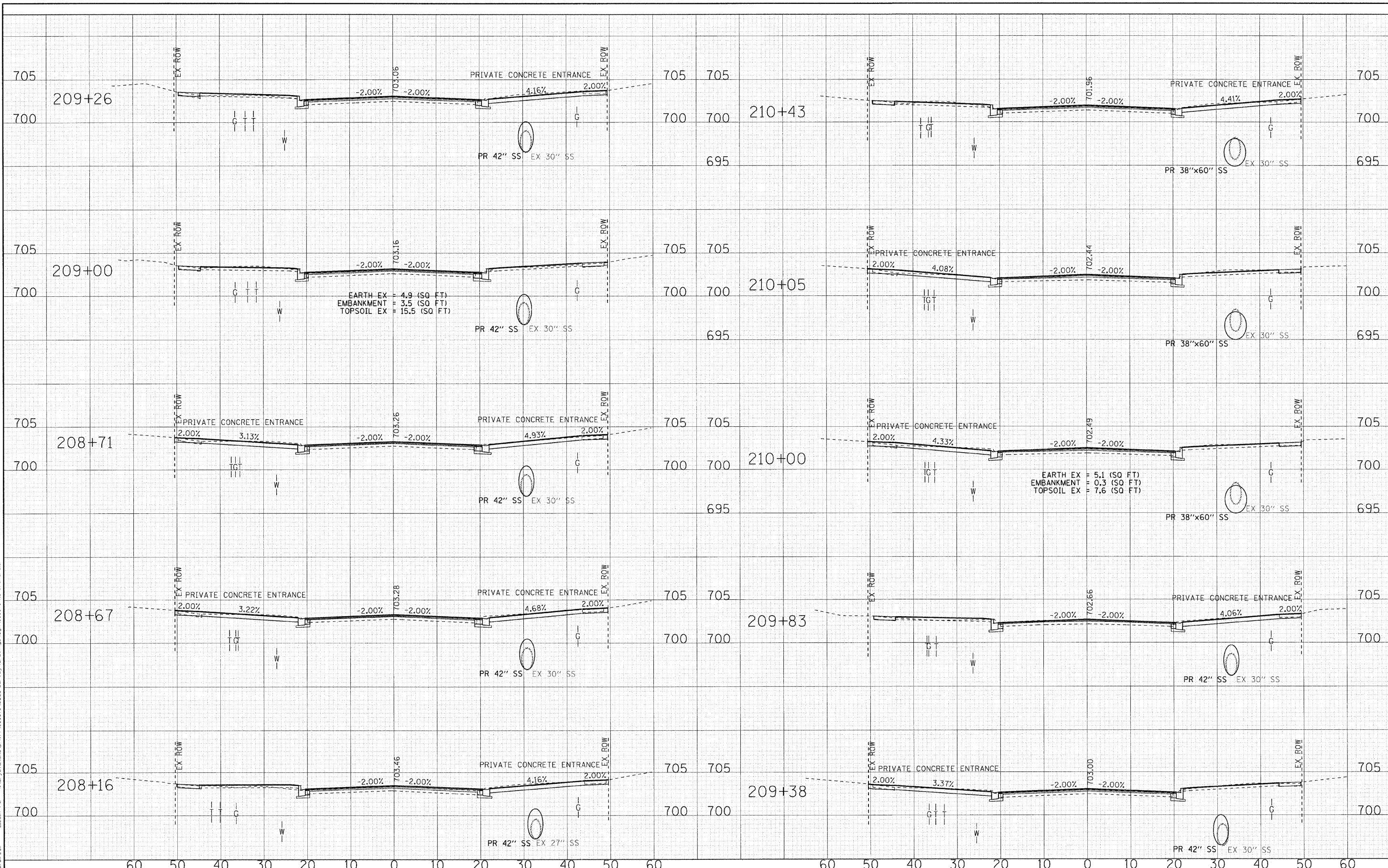
**CROSS SECTIONS
ORCHARD DRIVE**

SCALE: H: 1"=10' V: 1"=5'

STA. 203+95 TO STA. 208+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	196
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635	
			M-8003661	

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 STATE OF ILLINOIS PROFESSIONAL ENGINEER
 LICENSE NO. 184-00121 - EXPIRES 4/30/2013
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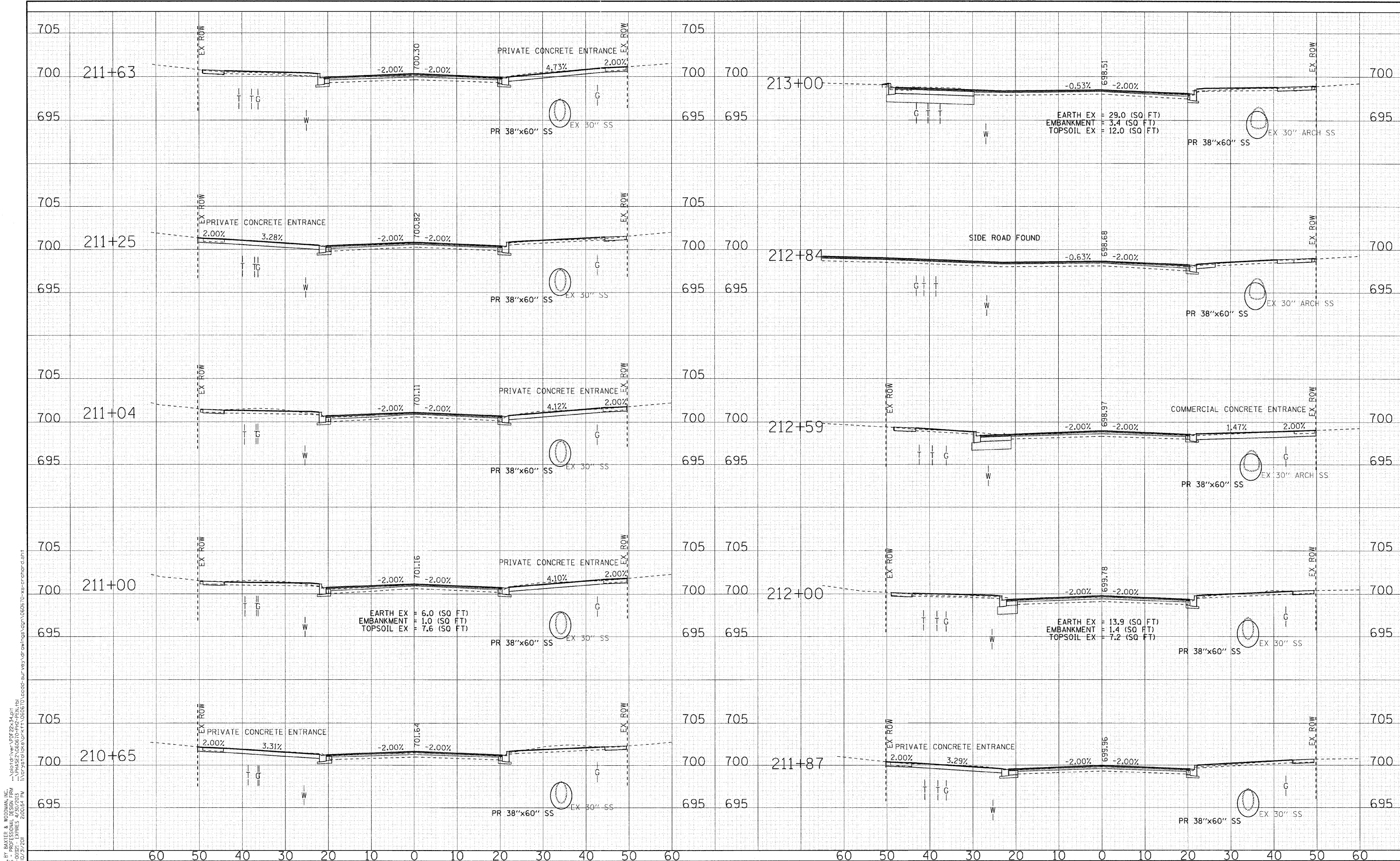
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**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

**CROSS SECTIONS
ORCHARD DRIVE**

SCALE: H: 1"=10' V: 1"=5'
 STA. 208+16 TO STA. 210+43

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	197
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT M-60031661			CONTRACT NO. 63635	



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 STATE OF ILLINOIS PROFESSIONAL ENGINEER
 LICENSE NO. 184-001213
 DATE: 10/24/11

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DRAWN - MAC	REVISED -
CHECKED - TAO	REVISED -
DATE - 10/24/11	REVISED -

**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

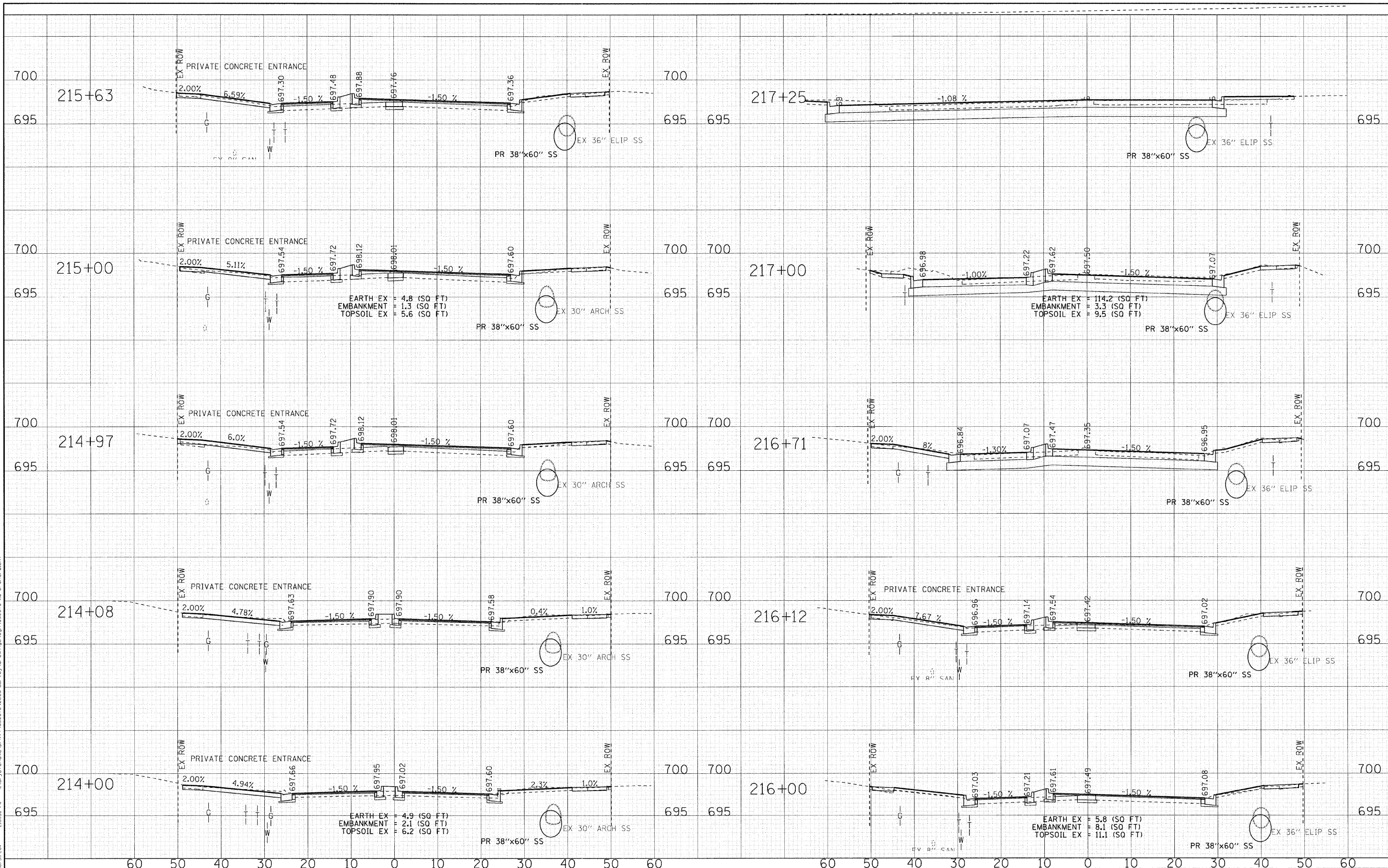
**CROSS SECTIONS
ORCHARD DRIVE**

SCALE: H: 1"=10' V: 1"=5'

STA. 210+65 TO STA. 213+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	198
CONTRACT NO. 63635				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT W-8003661				

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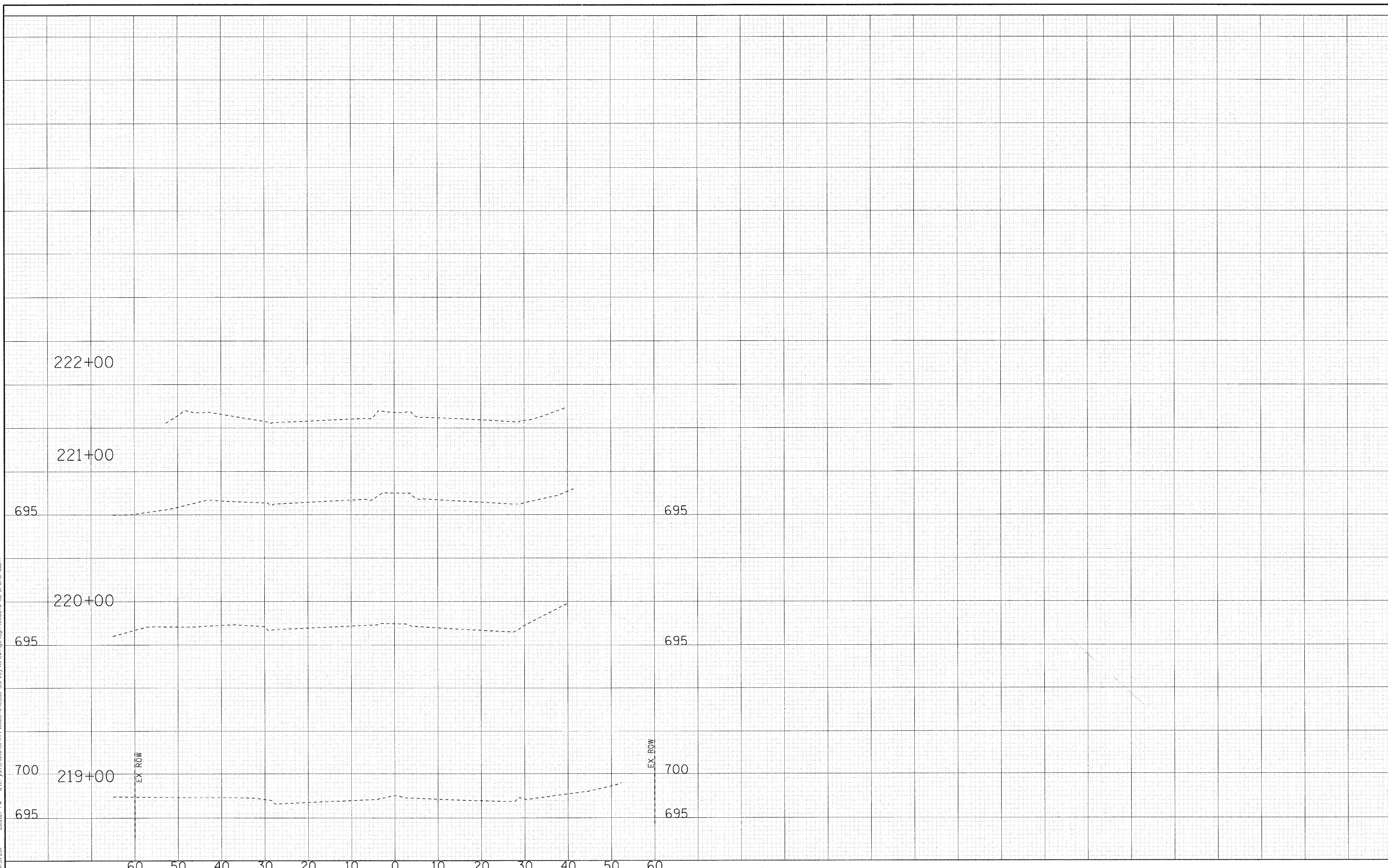
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**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

CROSS SECTIONS ORCHARD DRIVE	
SCALE: H: 1"=10' V: 1"=5'	STA. 214+00 TO STA. 218+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	199
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635	
M-80031661				

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CHECKED - TAO	REVISED -
DATE - 10/24/11	REVISED -

**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

SCALE: H: 1"=10' V: 1"=5'

STA. 219+00 TO STA. 222+00

**CROSS SECTIONS
ORCHARD DRIVE**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	200
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-80031661			CONTRACT NO. 63635	