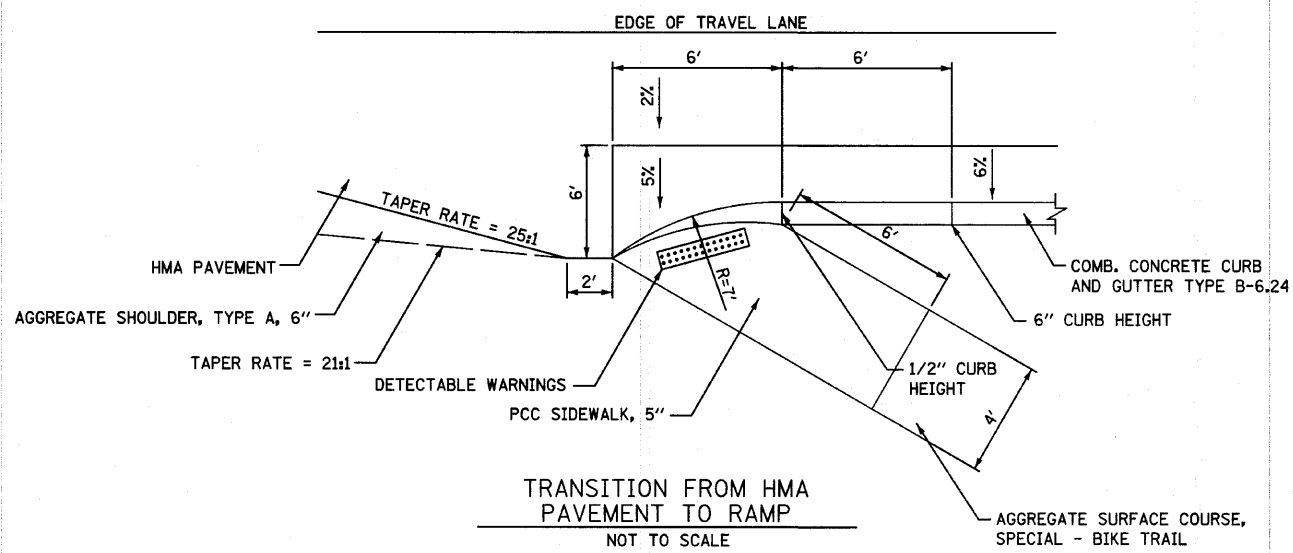


* DIMENSION APPLIES TO WADSWORTH ROAD

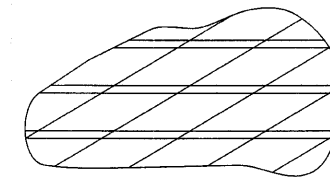
TRANSITION FROM AGGREGATE SHOULDER TO B-6.24
NOT TO SCALE



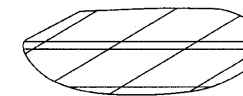
TRANSITION FROM HMA PAVEMENT TO RAMP
NOT TO SCALE

APPROVED LIST OF PERENNIAL PLANT SPECIES

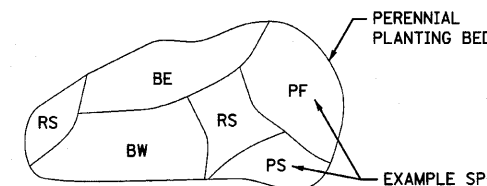
PLANT ABBREVIATION	COMMON NAME	SCIENTIFIC NAME
SB	Sky Blue Aster	Aster Azureus
NE	New England Aster	Aster Novae-Angiae
BW	Blue Wild Indigo	Baptisia Australis
PC	Prairie Coreopsis	Coreopsis Palmata
PF	Purple Coneflower	Echinacea Purpurea
RS	Rattle Snake Master	Eryngium Yuccifolium
BG	Bottle Gentian	Gentiana Andrew sii
PS	Prairie Smoke	Geum Triflorum
RB	Rough Blazing Star	Liatris Aspera
BE	Black-Eyed Susan	Rudbeckia Hirta



PERENNIAL PLANT SPACING - 14" O.C.
LARGE BED = 150 SQ FT
PROVIDE 110 PERENNIAL PLANTS

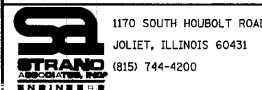


SMALL BED = 100 SQ FT
PROVIDE 75 PERENNIAL PLANTS



PERENNIAL PLANTING BED DETAIL
NOT TO SCALE

FILE NAME = s:\01\1980-1999\1982\082\micro\plan sheets\DI-int-dsala.dgn



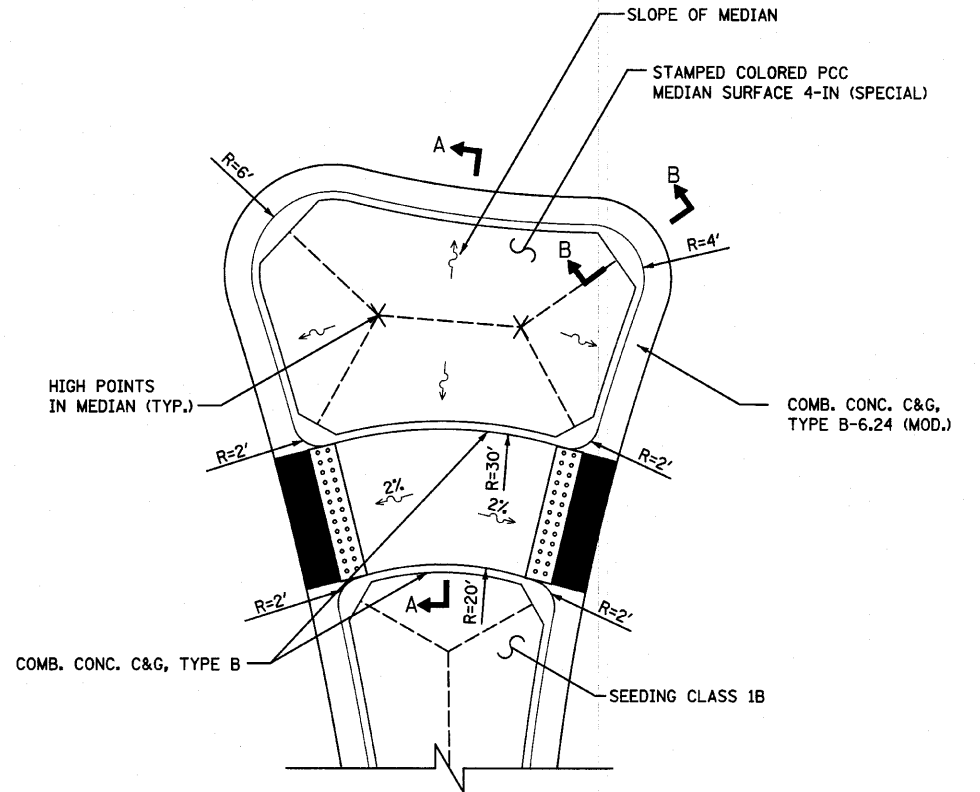
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PLOT SCALE = 20,000' / IN.	DRAWN -	REVISED -
PLOT DATE = 4/1/2012	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

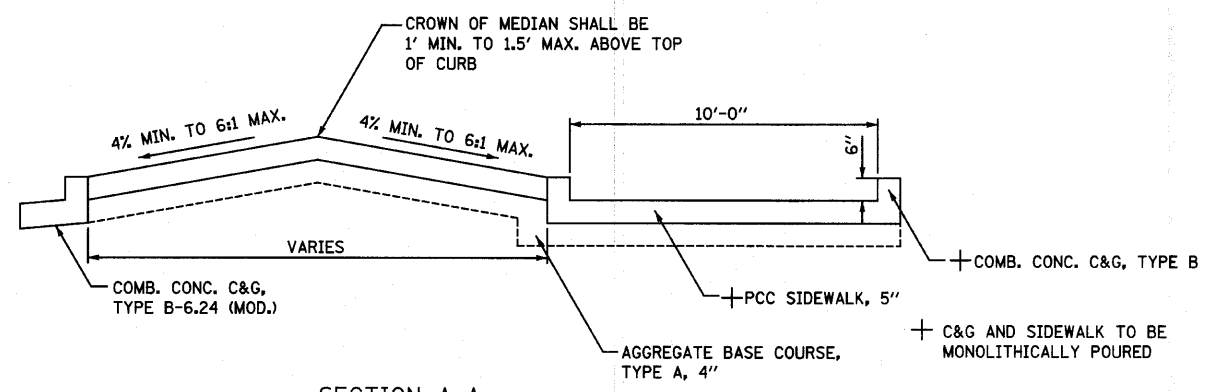
DETAILS

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

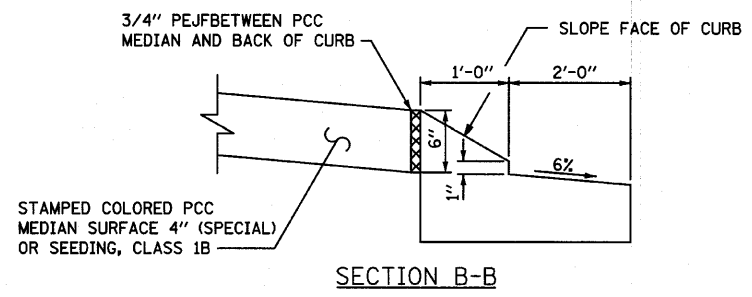
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	101
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63457	



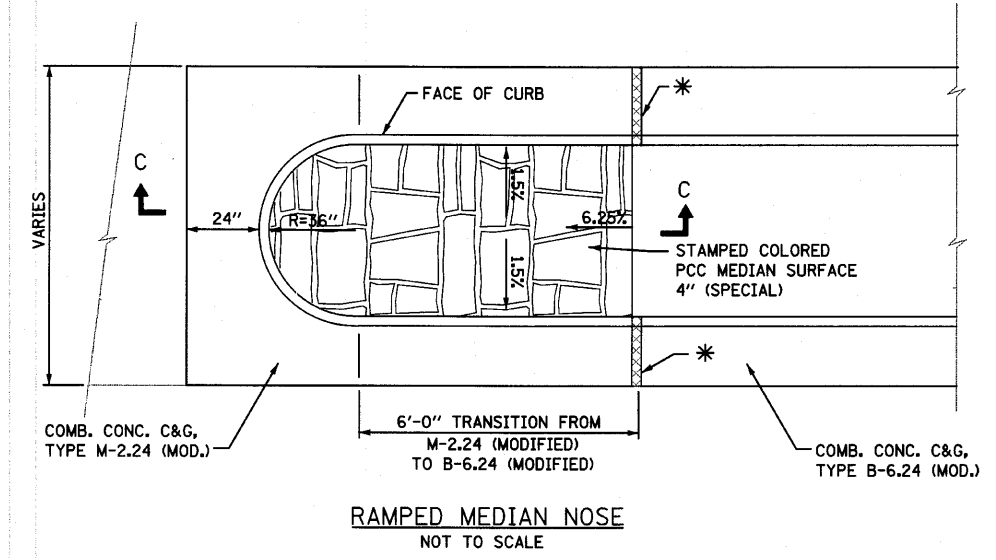
TYPICAL SPLITTER ISLAND END BY ROUNDABOUT
NOT TO SCALE



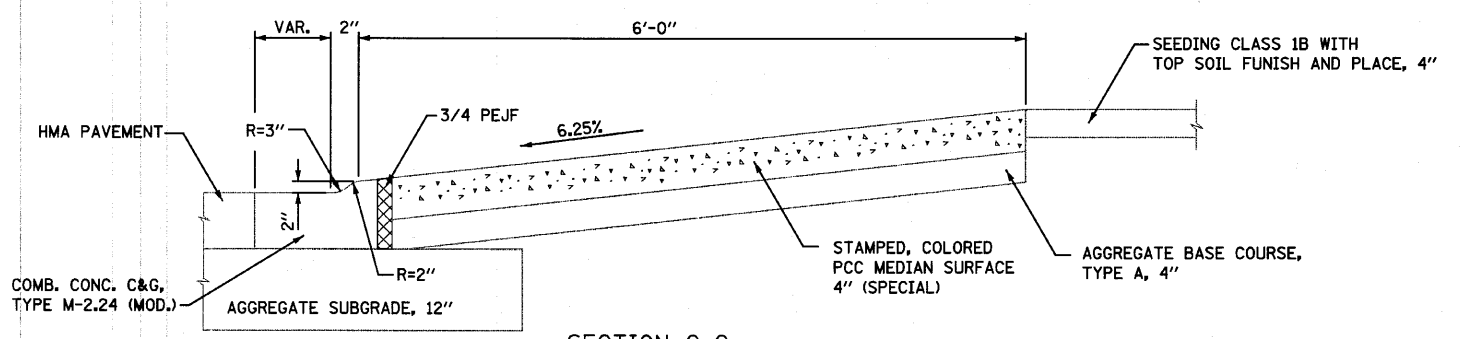
SECTION A-A



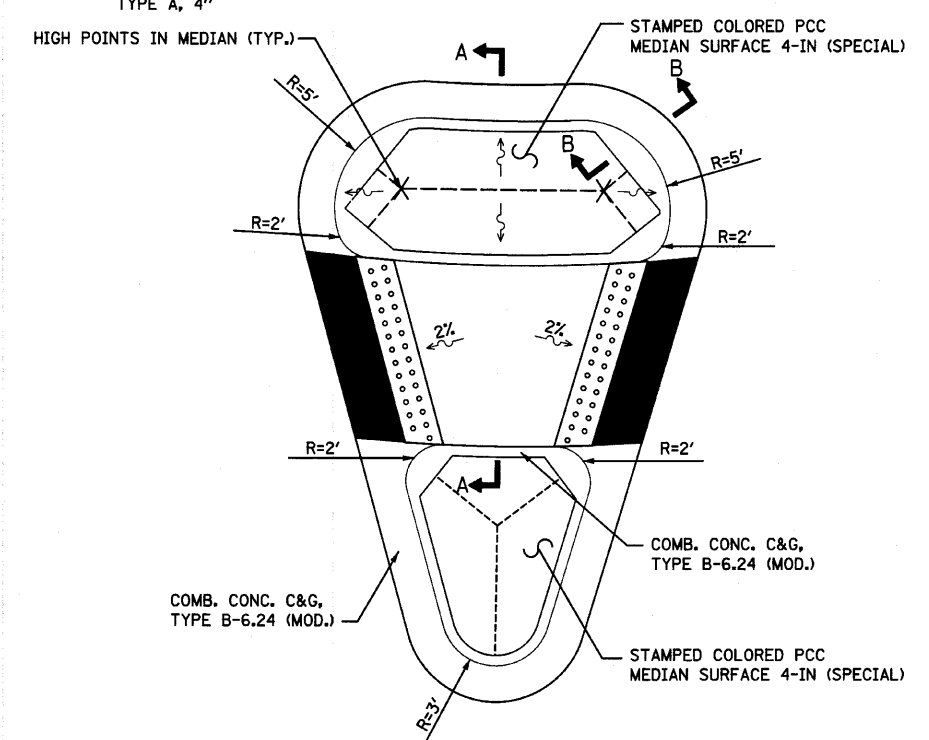
SECTION B-B



RAMPED MEDIAN NOSE
NOT TO SCALE



SECTION C-C



SIMPSON DRIVEWAY ISLAND DETAIL
NOT TO SCALE

FILE NAME = s:\proj\1980-1999\1982\microw\plan sheets\DI-sht-detail.dgn



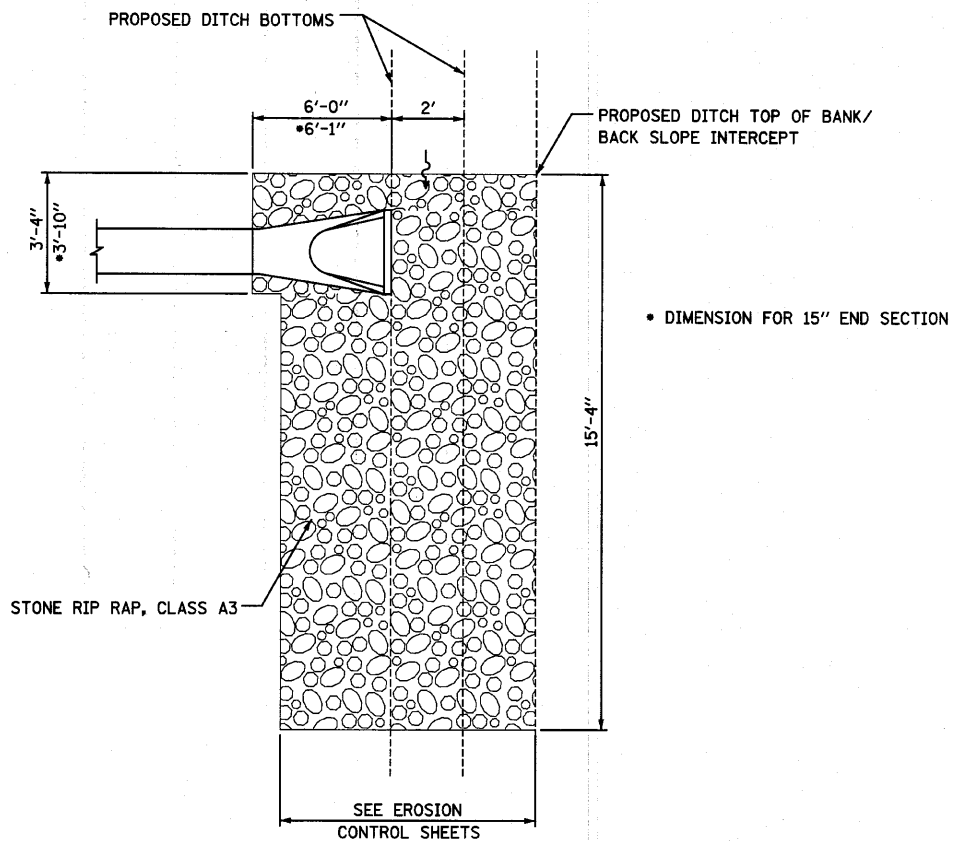
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PLOT SCALE = 20,000' / IN.	DRAWN -	REVISED -
PLOT DATE = 4/1/2012	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

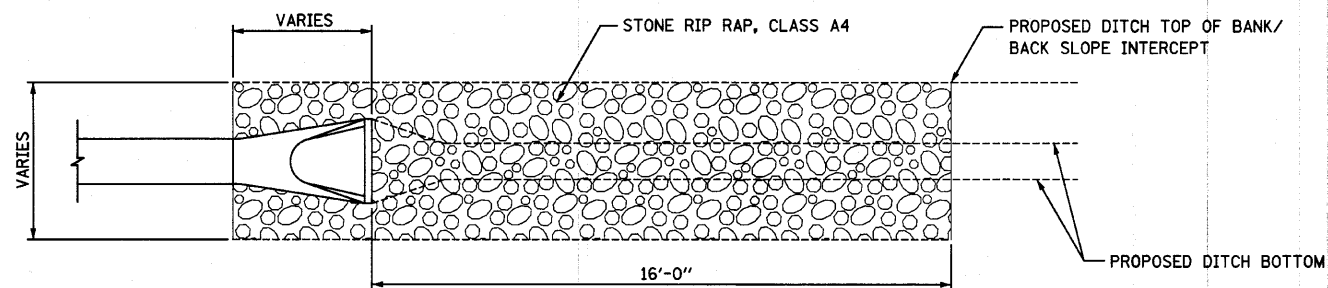
SCALE: AS SHOWN		SHEET NO. OF SHEETS		STA. TO STA.	
DETAILS					

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	102
CONTRACT NO. 63457				

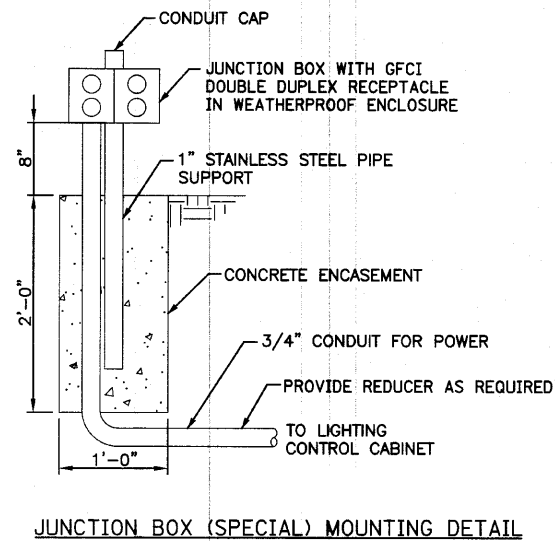
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



STONE RIP RAP AT 12" AND 15" STORM SEWER END SECTIONS



STONE RIP RAP AT 12" AND 15" CULVERT END SECTIONS DOWNSTREAM



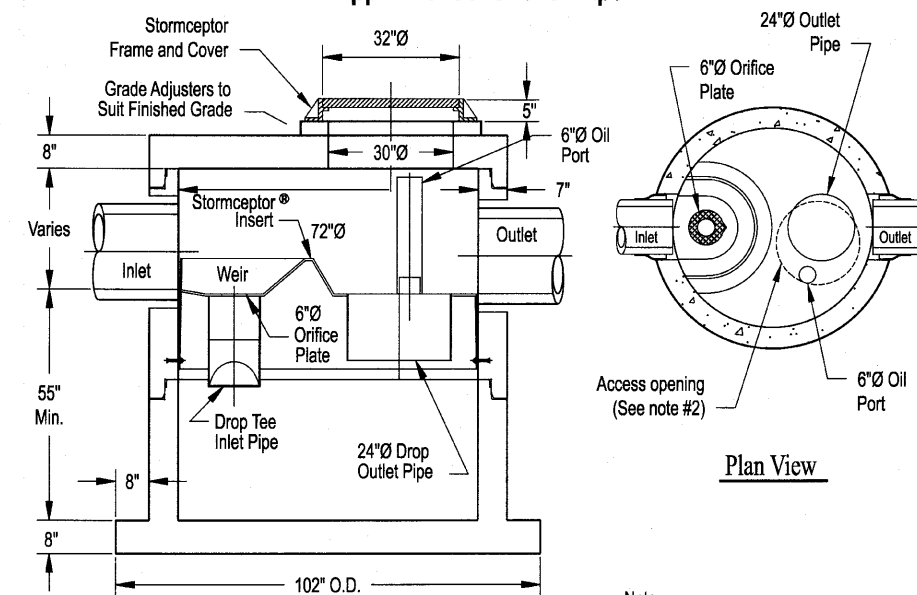
JUNCTION BOX (SPECIAL) MOUNTING DETAIL



Stormceptor - Northern Illinois & Wisconsin
Ph: 414-235-9665 dThomson@CemexUSA.com

STC 900 Precast Concrete Stormceptor®
(900 U.S. Gallon Capacity)

Available for Shallow Application
Appx: 2.0' Cover over Pipe



Section Thru Chamber

Plan View

Note:
Heaviest single piece
Typ. Wt. = 13,140#

CATCH BASINS, SPECIAL AS MANUFACTURED BY
STORMCEPTOR OR AN APPROVED EQUAL.

Notes:

1. The Use Of Flexible Connection is Recommended at The Inlet and Outlet Where Applicable.
2. The Cover Should be Positioned Over The Outlet Drop Pipe and The Oil Port.
3. The Stormceptor System is protected by one or more of the following U.S. Patents: #4985148, #5498331, #5725760, #5753115, #5849181, #6068765, #6371690.
4. Contact a Concrete Pipe Division representative for further details not listed on this drawing.

Rinker 028 II-WI

FILE NAME = s:\vol1\1980-1999\1982\micron\plan sheets\01-ehf-detailed.dgn

STRANS
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = saron	DESIGNED -	REVISED -
PLOT SCALE = 2,5000' / IN.	DRAWN -	REVISED -
PLOT DATE = 4/1/2012	CHECKED -	REVISED -
	DATE -	REVISED -

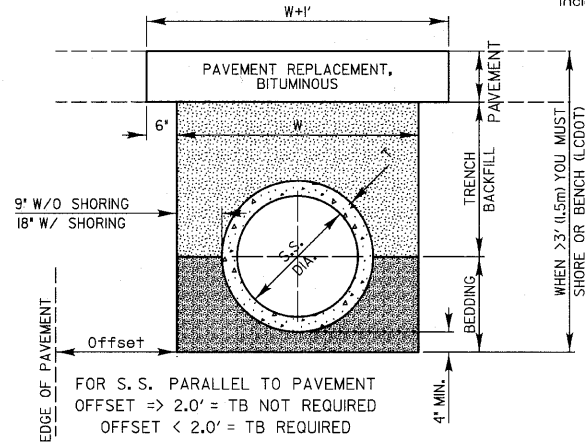
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS

F.A. RTE. 2661	SECTION 02-00076-13-CH	COUNTY LAKE	TOTAL SHEETS 177	SHEET NO. 103
SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 63457	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

ENGLISH		TRENCH WIDTH (W)		MIN OFFSET FROM E.O.P.* FOR NO TB		1/2 PIPE AREA (SQ FT)
S.S. DIA.	T	WITHOUT SHORING	WITH SHORING	WITHOUT SHORING	WITH SHORING	
10"	2"	2.67'	4.17'	3.33'	4.08'	0.53
12"	2"	2.83'	4.33'	3.42'	4.17'	0.70
15"	2 1/4"	3.13'	4.63'	3.56'	4.31'	1.04
18"	2 1/2"	3.42'	4.92'	3.71'	4.46'	1.44
21"	2 3/4"	3.71'	5.21'	3.85'	4.60'	1.92
24"	3"	4.00'	5.50'	4.00'	4.75'	2.45
27"	3 1/4"	4.29'	5.79'	4.15'	4.90'	3.06
30"	3 1/2"	4.58'	6.08'	4.29'	5.04'	3.73
36"	4"	5.17'	6.67'	4.58'	5.33'	5.28
42"	4 1/2"	5.75'	7.25'	4.88'	5.63'	7.09
48"	5"	6.33'	7.83'	5.17'	5.92'	9.17

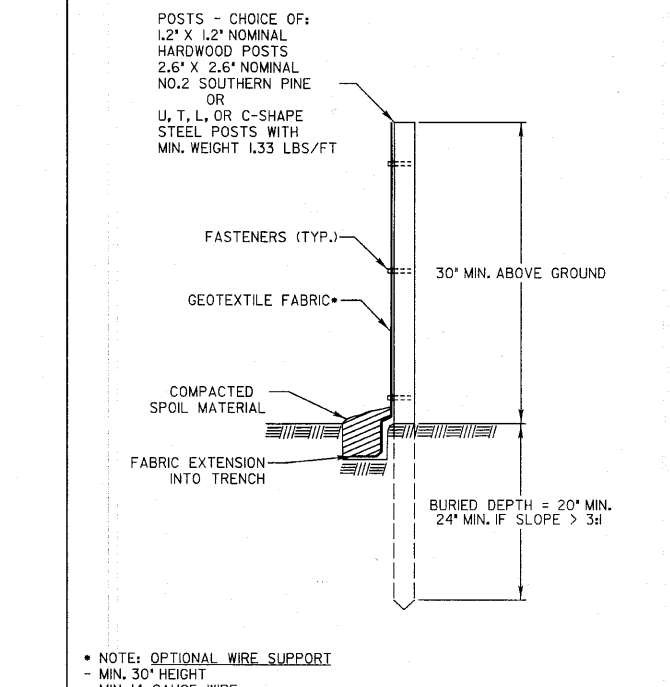
* TO CENTER LINE OF PIPE



SCALE: 1" = 2'

REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS
Text Revision	8/06/07	DATE: APRIL 1, 2007

TRENCH WIDTHS FOR TRENCH BACKFILL & PAVEMENT REPLACEMENT, BITUMINOUS

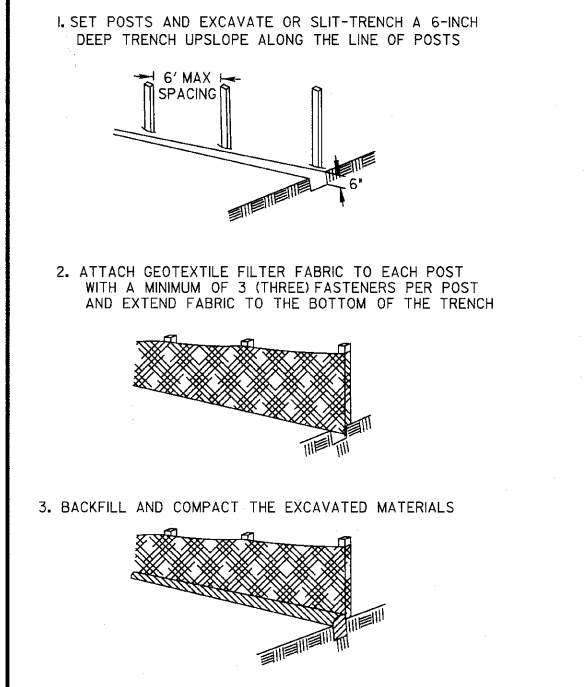


* NOTE: OPTIONAL WIRE SUPPORT
 - MIN. 30" HEIGHT
 - MIN. 14 GAUGE WIRE
 - MIN. 6 HORIZ. WIRES
 - MIN. 6" VERTICAL SPACING

SCALE 1" = 1'

REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS
ORIG. by LCSMC	04/21/08	DATE: JUNE 20, 2008

PERIMETER EROSION BARRIER INSTALLATION



Requirements	Test Methods	Wire Backed Supported Silt Fence	Unsupported Silt Fence	
			Geotextile Elongation >=50%	Geotextile Elongation <50%
Maximum Post Spacing		4 feet	4 feet	6 feet
Grab Strength	ASTM D 4632			
Machine direction		90 lbs	124 lbs	124 lbs
X-Machine direction		90 lbs	100 lbs	100 lbs
Permittivity	ASTM D 4491	0.05 sec ⁻¹	0.05 sec ⁻¹	0.05 sec ⁻¹
Apparent Opening Size	ASTM D 4751	0.024in maximum average roll value		
Ultraviolet stability (retained strength)	ASTM D 4355	70% after 500 hours of exposure		

REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS
ORIG. by LCSMC	04/21/08	DATE: JUNE 20, 2008

PERIMETER EROSION BARRIER INSTALLATION

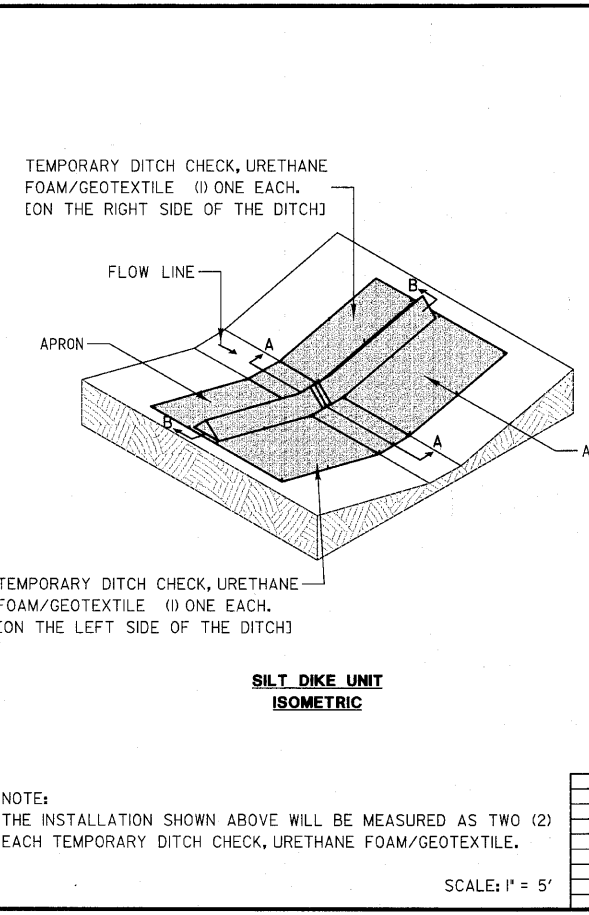
FILE NAME = #FILE#

STRAND ENGINEERS
 170 SOUTH HOUBOLT ROAD
 JULIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = #USER#
 DESIGNED - MAG
 DRAWN - VLF
 CHECKED - RKK
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



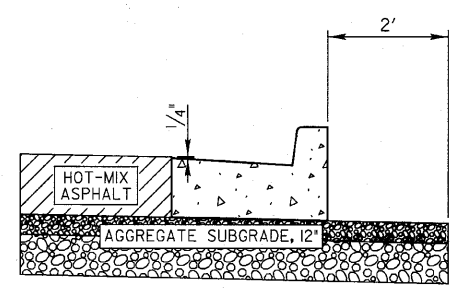
SILT DIKE UNIT ISOMETRIC

NOTE: THE INSTALLATION SHOWN ABOVE WILL BE MEASURED AS TWO (2) EACH TEMPORARY DITCH CHECK, URETHANE FOAM/GEOTEXTILE.

SCALE: 1" = 5'

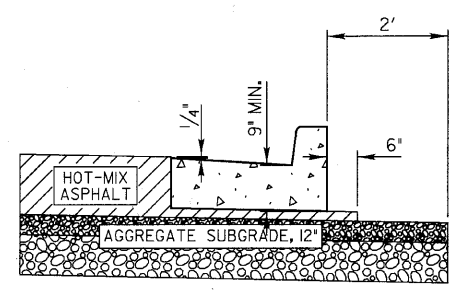
REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS
ADDED DIMENSIONS	04/11/08	DATE: APRIL 1, 2007

TRIANGULAR SILT DIKE INSTALLATION FOR ROADWAY DITCH OR DRAINAGE DITCH



TYPICAL METHOD

NOTE: MINIMUM FLAG THICKNESS 9"



OPTIONAL METHOD

NOTE: COST OF HOT-MIX ASPHALT MATERIAL UNDER CURB AND 6" OUTSIDE OF CURB TO BE INCIDENTAL TO COST OF COMBINATION CONCRETE CURB AND GUTTER.

SCALE: 1" = 2'

REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS
ORIG. by LCSMC	04/21/08	DATE: JUNE 20, 2008

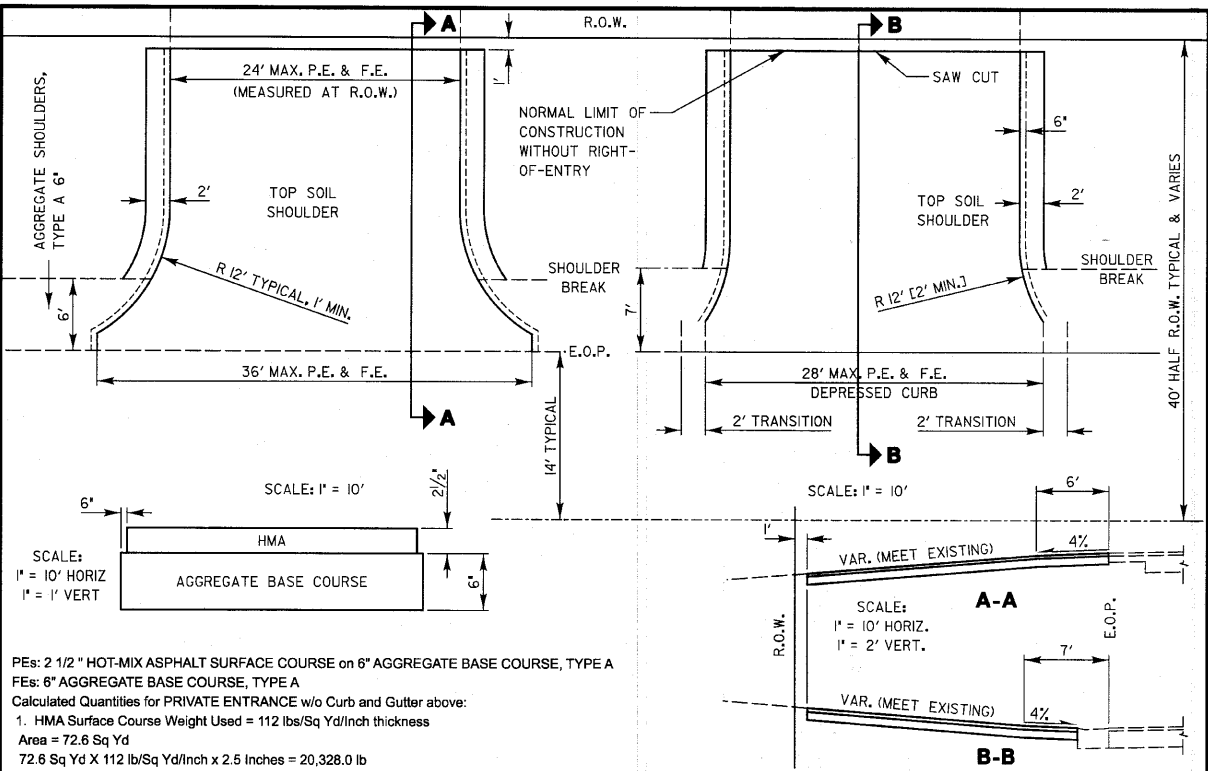
CURB & GUTTER SUBGRADE OPTIONS

LCDOT STANDARD DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
266I	02-00076-13-CH	LAKE	177	104

CONTRACT NO. 63457



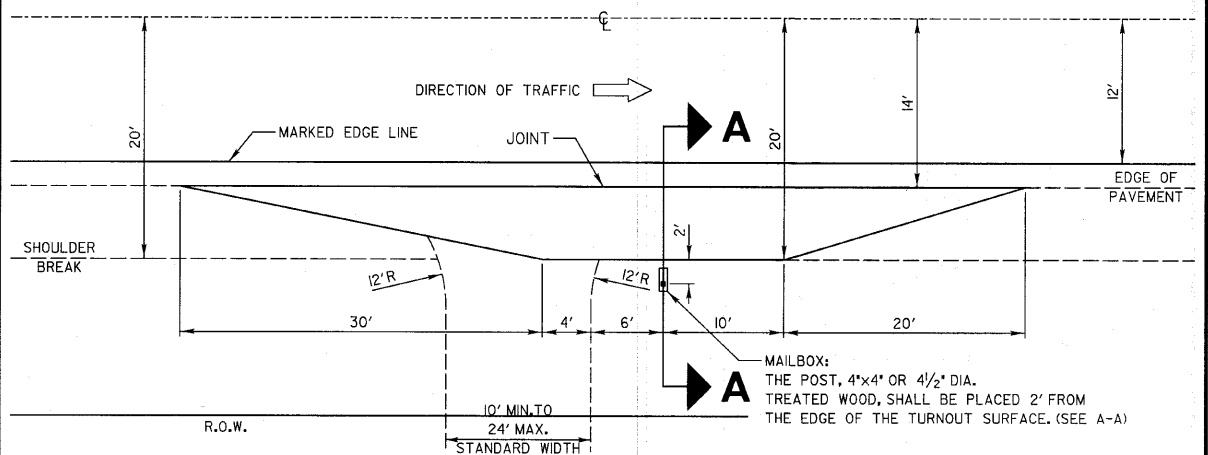
PEs: 2 1/2" HOT-MIX ASPHALT SURFACE COURSE ON 6" AGGREGATE BASE COURSE, TYPE A
 FEs: 6" AGGREGATE BASE COURSE, TYPE A
 Calculated Quantities for PRIVATE ENTRANCE w/o Curb and Gutter above:
 1. HMA Surface Course Weight Used = 112 lbs/Sq Yd/inch thickness
 Area = 72.6 Sq Yd
 72.6 Sq Yd X 112 lb/Sq Yd/inch x 2.5 Inches = 20,328.0 lb
 Converting to Tons = 20,328.0 lb/2000 lb/Ton = 10.16 Ton
 Round to = **10 Ton**
 2. Aggregate Base Course Weight Used = 2 Ton/Cu Yd
 75.63 Sq Yd x 2 Ton/Cu Yd x 0.1667 Yd thickness = 25.22 Ton
 Round to = **25 Ton**

REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS
Removed Prime Cost Qty	8/20/08	DATE: APRIL 1, 2007

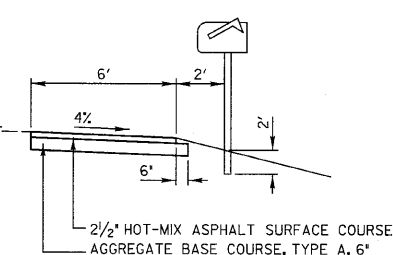
Lake County Division of Transportation

TYPICAL MINOR ACCESS (PRIVATE ENTRANCE)

LC4100



DESIGN NOTES:
 1. The Resident Engineer shall contact the local postmaster prior to installing the new mailbox posts for the local mounting height of the mailbox. The standard mounting height is 3 1/2'; however, local postmasters may vary this height.
 2. The standard mailbox post is a 4"x4" or a 4 1/2" dia. treated wood post. The standard bury length of the post is 2'. Do not shorten or exceed this bury length.
 3. Depending on the location of the shoulder break with respect to the edge of the mailbox turnout the overall post length may vary from 5' 8" to 6' 4" to maintain the 2' bury length and the 3 1/2' mounting height.

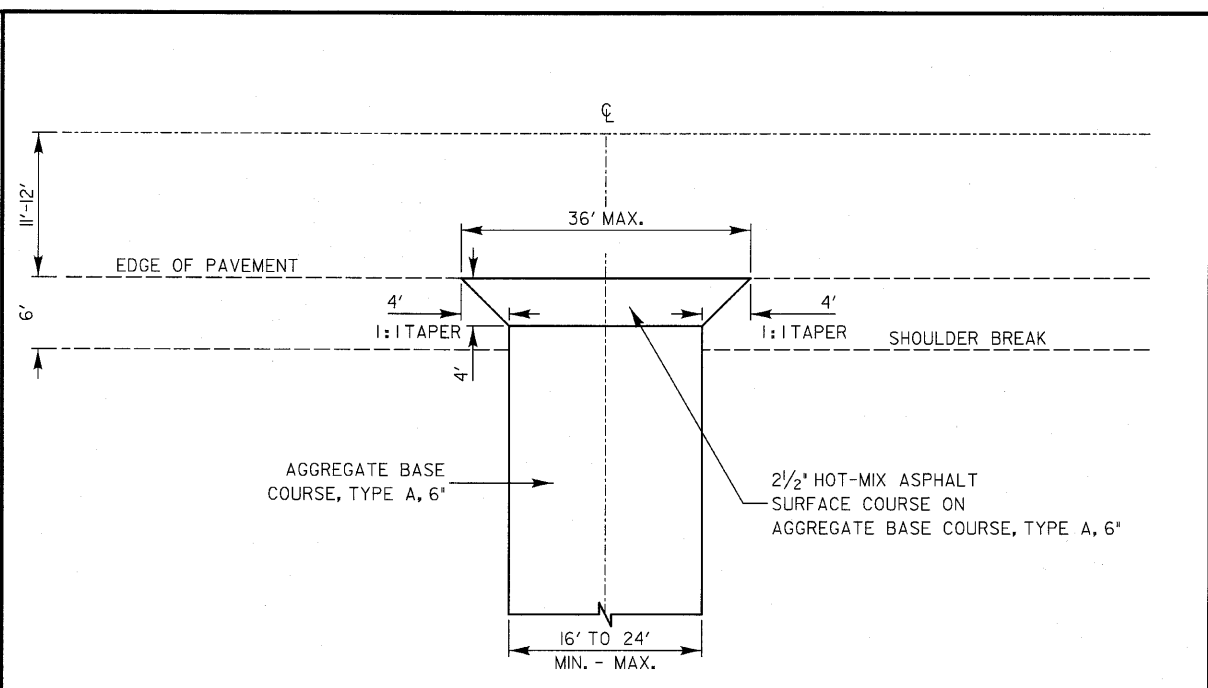


REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS
		DATE: APRIL 1, 2007

Lake County Division of Transportation

MAILBOX TURNOUT ALONG UNCURBED ROADS

LC4120



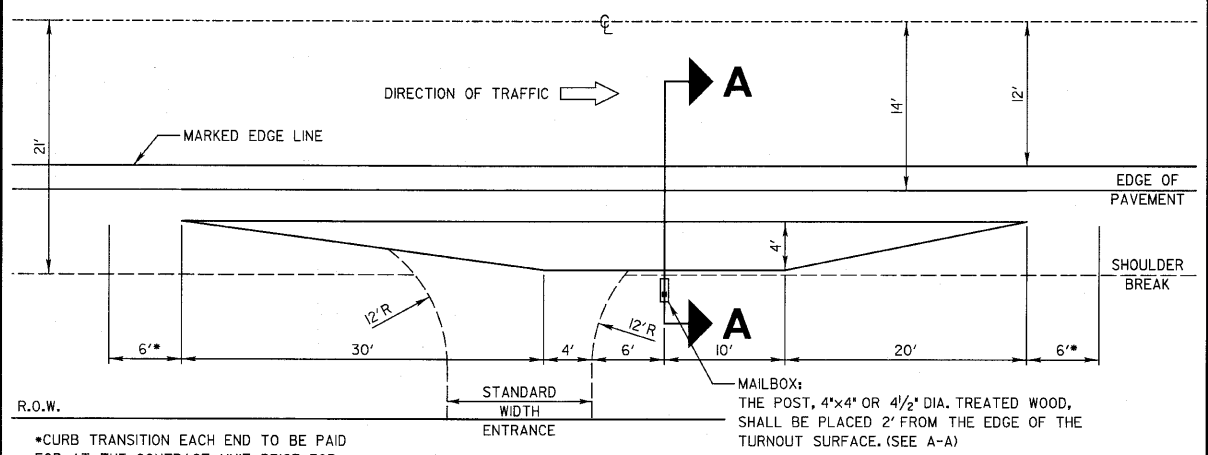
DESIGN NOTE:
 The Hot-Mix Asphalt apron will not be included on roads with a 2' (or wider) paved shoulder. The apron will be constructed behind curb & gutter only when a hot-mix asphalt shoulder is not included.

REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS
		DATE: APRIL 1, 2007

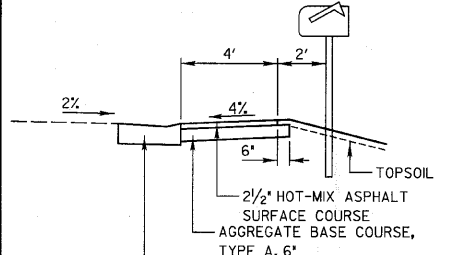
Lake County Division of Transportation

HOT-MIX ASPHALT APRON FOR AGGREGATE FIELD ENTRANCE

LC4103



DESIGN NOTES:
 1. The Resident Engineer shall contact the local postmaster prior to installing the new mailbox posts for the local mounting height of the mailbox. The standard mounting height is 3 1/2'; however, local postmasters may vary this height.
 2. The standard mailbox post is a 4"x4" or a 4 1/2" dia. treated wood post. The standard bury length of the post is 2'. Do not shorten or exceed this bury length.
 3. Depending on the location of the shoulder break with respect to the edge of the mailbox turnout the overall post length may vary from 5' 8" to 6' 4" to maintain the 2' bury length and the 3 1/2' mounting height.



REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS
		DATE: APRIL 1, 2007

Lake County Division of Transportation

MAILBOX TURNOUT ALONG CURBED ROADS

LC4121

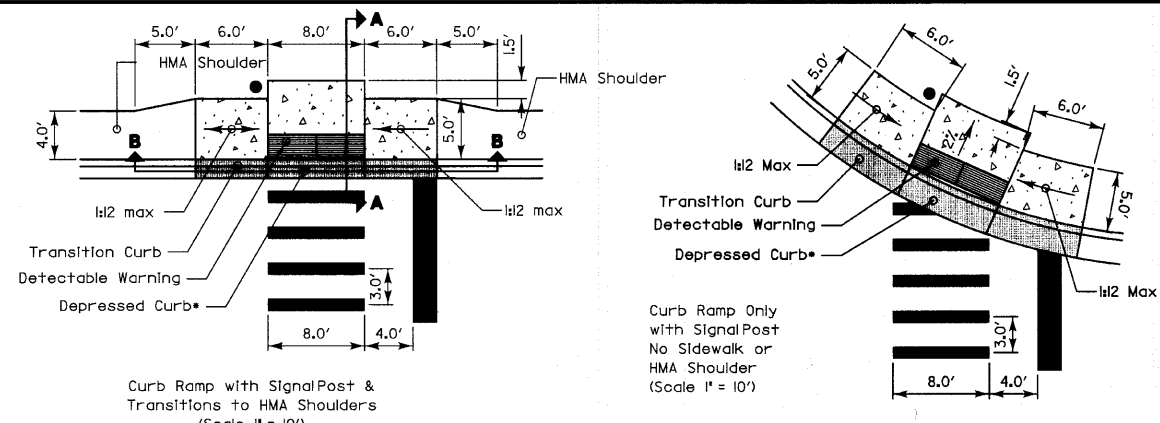
FILE NAME = #FILE#



170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = #USER#	DESIGNED - MAG	REVISED -
	PLOT SCALE = #SCALE#	DRAWN - VLF	REVISED -
	PLOT DATE = #DATE#	CHECKED - RKK	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT STANDARD DETAILS



GENERAL NOTES:

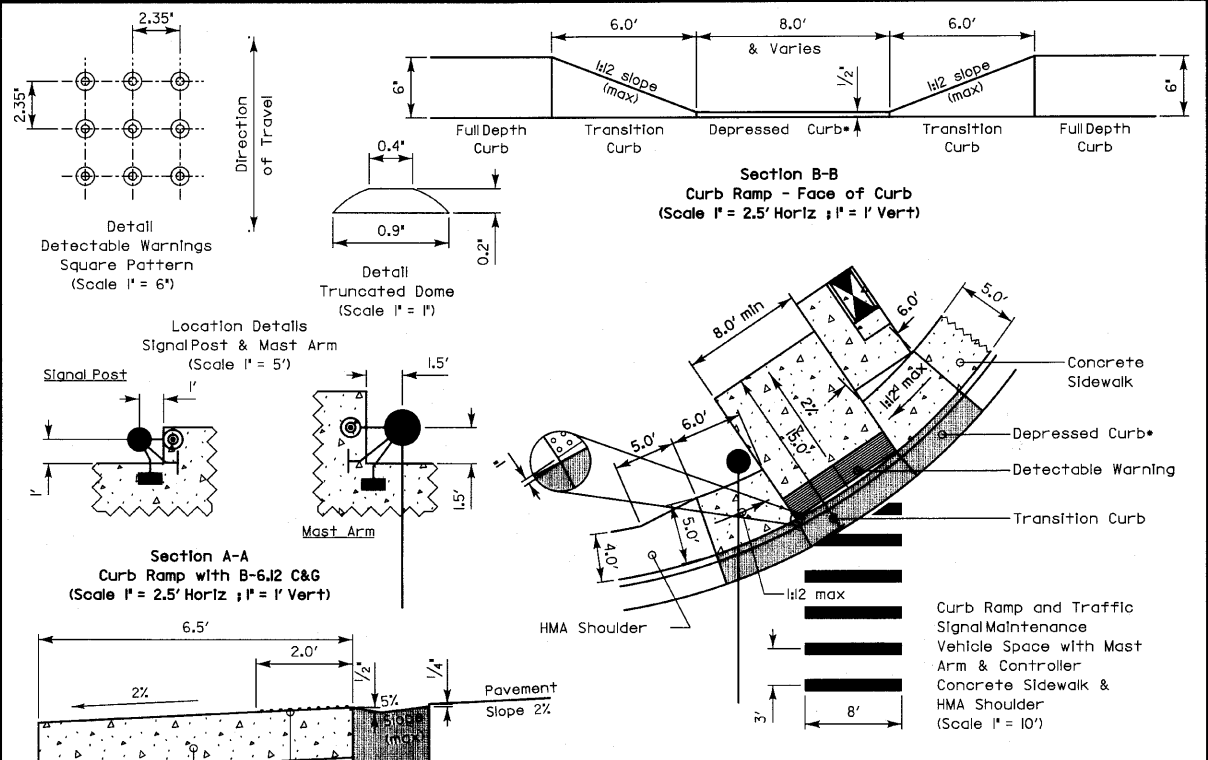
1. The gutter slope for the DEPRESSED CURB adjacent to the curb ramp is a maximum of 5% (standard curb and gutter is 6%). The back of curb rise is 1/2" (standard depressed curb is 1/2"). See Section A-A (Sheet 2) and IDOT standard 606001 for the different curb dimensions.
2. The Depressed Curb and the Transition Curb will be paid for as COMBINATION CONCRETE CURB AND GUTTER of the type adjacent to the curb ramp.
3. The concrete area consisting of the landing (2% slope) and the side ramps (behind the transition curb) along with the continuation of the 5' concrete between adjacent ramps (if any) will be measured in square feet and paid for as PORTLAND CEMENT CONCRETE SIDEWALK of the thickness specified.
4. The detectable warnings shall be installed in accordance with Article 424.09 of the IDOT Standard Specifications and the LCDOT specification 42400800 DETECTABLE WARNINGS and shall be measured and paid for per square foot.
5. Since the width of the flag doesn't affect the construction of the ramp, both B-6.12 and B-6.24 Curb & Gutter are portrayed in this standard.

REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS
Added Warning Details	8/1/2008	DATE: APRIL 1, 2007

Lake County Division of Transportation

CURB RAMPS with TRAFFIC SIGNAL POSTS & MAST ARMS
(SHEET 1 OF 2)

LC4201

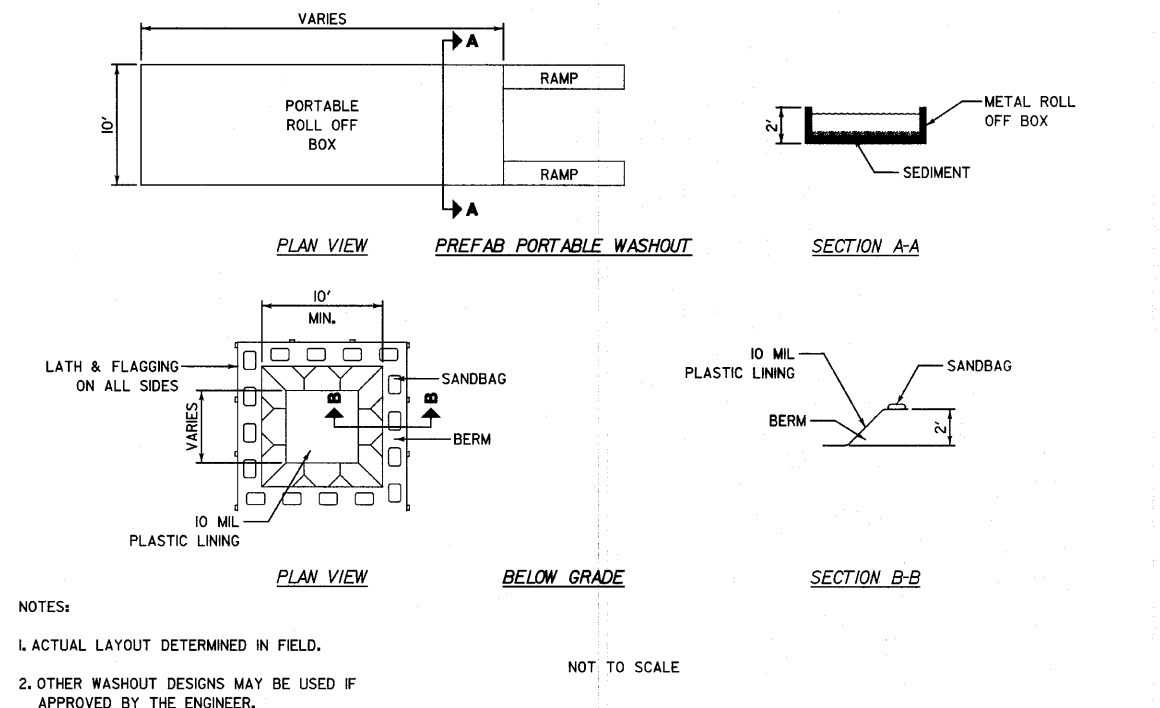


REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS
Added Warning Details	8/1/2008	DATE: APRIL 1, 2007

Lake County Division of Transportation

CURB RAMPS with TRAFFIC SIGNAL POSTS & MAST ARMS
(SHEET 2 OF 2)

LC4201



REVISIONS	DATE	APPROVED BY: MGZ
		DATE: March 17, 2008

Lake County Division of Transportation

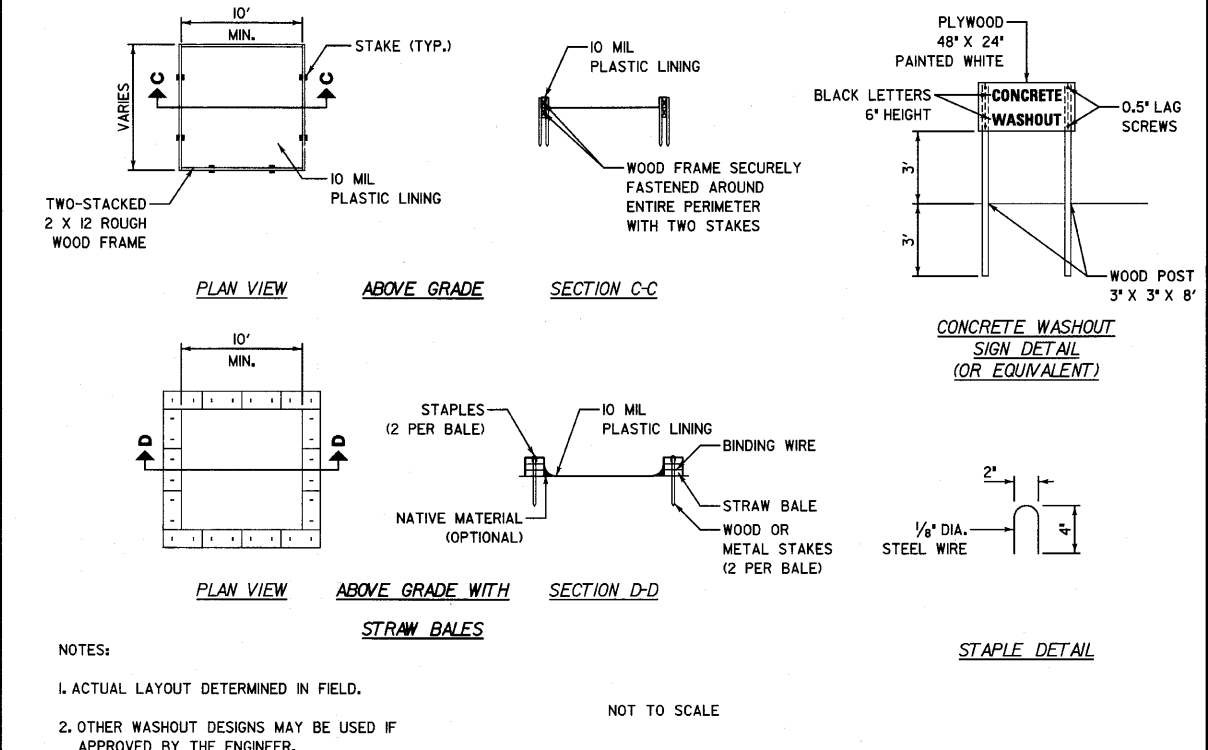
CONCRETE WASHOUT FACILITIES
(SHEET 1 OF 2)

LC4202

NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. OTHER WASHOUT DESIGNS MAY BE USED IF APPROVED BY THE ENGINEER.
3. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

NOT TO SCALE



REVISIONS	DATE	APPROVED BY: MGZ
		DATE: March 17, 2008

Lake County Division of Transportation

CONCRETE WASHOUT FACILITIES
(SHEET 2 OF 2)

LC4202

NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. OTHER WASHOUT DESIGNS MAY BE USED IF APPROVED BY THE ENGINEER.
3. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

NOT TO SCALE



USER NAME = #USER#	DESIGNED - MAG	REVISED -
PLOT SCALE = #SCALE#	DRAWN - VLF	REVISED -
PLOT DATE = #DATE#	CHECKED - RKK	REVISED -
	DATE -	REVISED -

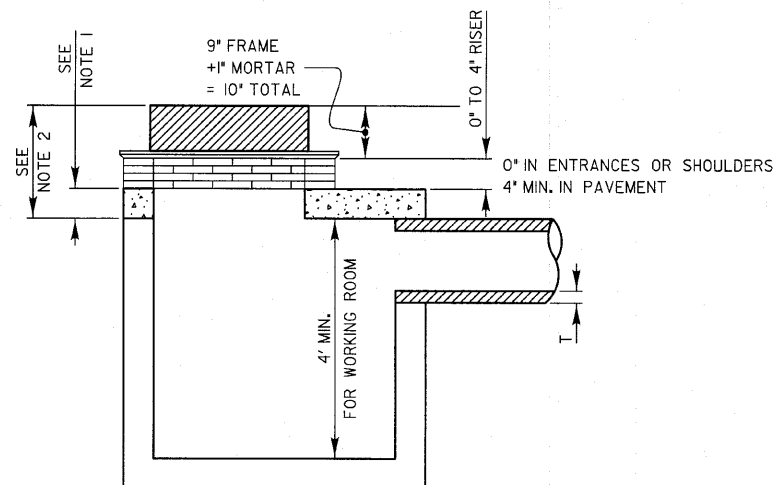
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT STANDARD DETAILS

F.A. RTE. 266I	SECTION 02-00076-13-CH	COUNTY LAKE	TOTAL SHEETS 177	SHEET NO. 106
CONTRACT NO. 63457				

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

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



NOTE 1:
6" - 4' DIA. M.H.
8" - 5' DIA. M.H.

NOTE 2:
4' M.H. 1'-8" DESIRABLE
1'-4" MIN.
5' M.H. 1'10" DESIRABLE
1'-6" MIN.

PIPE DIA.	T	MINIMUM DEPTH			
		4" DIA. RISER	4" DIA. RISER	5" DIA. RISER	5" DIA. RISER
10"	2"	2.33'	2.67'	2.50'	2.83'
12"	2"	2.50'	2.83'	2.67'	3.00'
15"	2 1/4"	2.77'	3.10'	2.94'	3.27'
18"	2 1/2"	3.04'	3.38'	3.21'	3.54'
21"	2 3/4"	-	-	3.48'	3.81'
24"	3"	-	-	3.75'	4.08'
30"	3 1/2"	-	-	4.29'	4.63'
36"	4"	-	-	4.83'	5.17'
42"	4 1/2"	-	-	5.38'	5.71'

STRUCTURES REQUIRE SUMP FOR HEADROOM

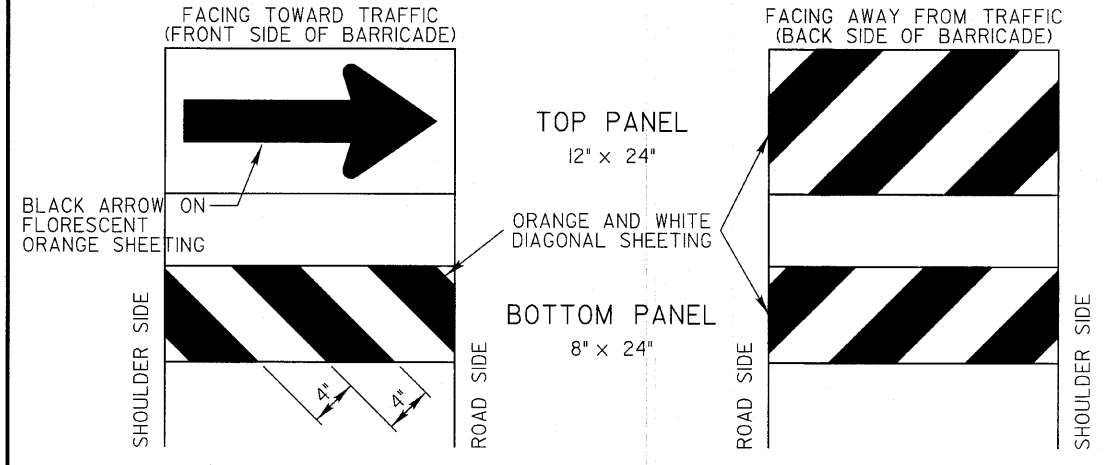
SCALE: 1"=2'

REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS
		DATE: APRIL 1, 2007

RESTRICTED DEPTH MANHOLE

LC6000

DIRECTION INDICATOR BARRICADES



GENERAL NOTES

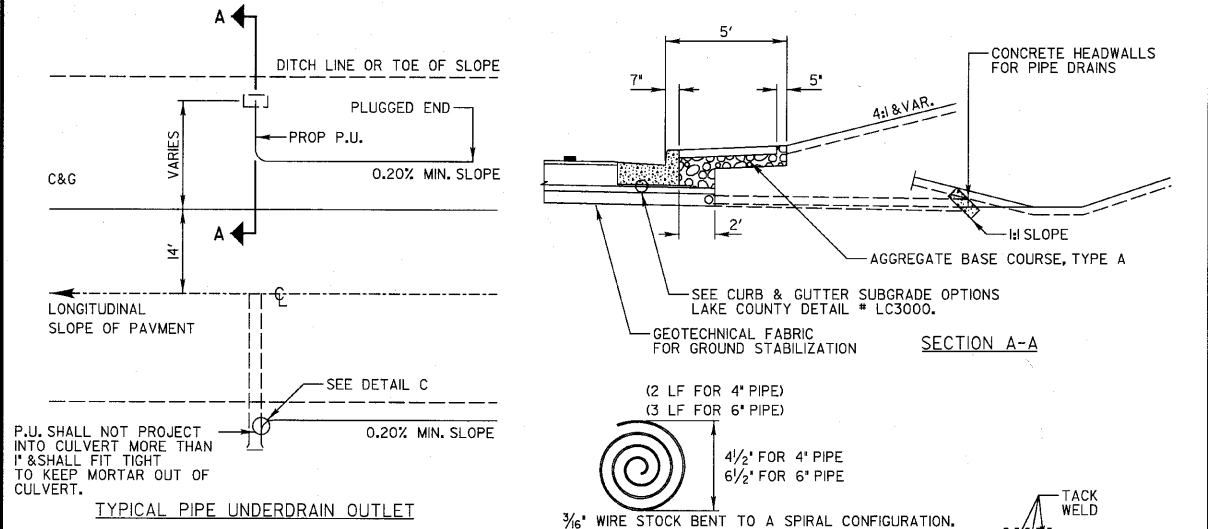
- Direction Indicator Barricades shall be constructed from non-metallic Type II barricades meeting the requirements of Article 1106.02 of the Standard Specifications, except where modified by this detail.
- The Direction Indicator Barricades shall be equipped with Type C steady burning lights if used to channelize traffic during the hours of darkness.
- The reflective sheeting for the top panel shall be Type AZ fluorescent orange. The diagonal panels shall have orange and white Type A or better reflective sheeting.

REVISIONS	DATE	APPROVED BY: ANTHONY KHAWAJA
		DATE: APRIL 1, 2007

**TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
HIGHWAY CONSTRUCTION CONTRACT MAINTENANCE**

DIRECTION INDICATOR BARRICADES

LC7200



DESIGN NOTES:

All work to be in accordance with the applicable portions of the standard specifications except as modified hereon.

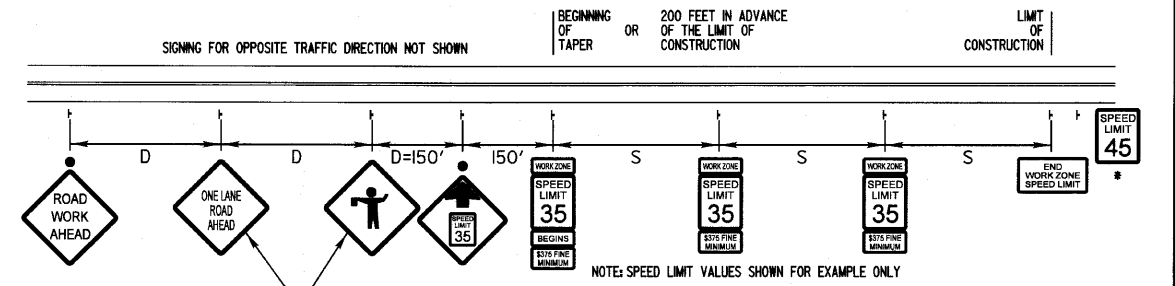
In addition to the requirements of article 601.08 of the standard specifications, the contract unit price per foot for pipe underdrains 4" shall include the cost for furnishing and placing the rodent shield.

The removable rodent shield shall be furnished and installed in accordance with one of the configurations shown. The shield shall be fabricated from steel wire, or expanded metal, as detailed above and shall be galvanized after fabrication in accordance with AASHTO M-111. Other submitted designs for a removable rodent shield will be allowed with the approval of the engineer.

REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS
		DATE: APRIL 1, 2007

SUB-SURFACE DRAINS

LC6200



ADVANCE WARNING SIGN SPACING TABLE

ROAD TYPE (EXISTING SPEED LIMIT)	DISTANCE BETWEEN SIGNS D
URBAN-LOW SPEED (40 M.P.H. OR LESS)	200 FT.
URBAN-HIGH SPEED (45-50 M.P.H.)	350 FT.
RURAL (55 M.P.H. OR GREATER)	500 FT.

WORK ZONE SPEED LIMIT SIGN SPACING

WORK ZONE SPEED LIMIT	DISTANCE BETWEEN SIGNS S
35 TO 40 M.P.H.	990 FT. TO 1,980 FT.
45 TO 50 M.P.H.	1,320 FT. TO 2,640 FT.

NOTES:

- EXISTING SPEED LIMIT BEFORE CONSTRUCTION.
- THE SIGN SPACING BETWEEN WORK ZONE SPEED LIMIT SIGNS SHALL BE THE SAME AS COMPARABLE REGULAR SPEED LIMIT SIGNING AS STATED IN THE L.C.D.O.T. POLICY FOR THE ESTABLISHMENT AND POSTING OF SPEED LIMITS ON COUNTY AND TOWNSHIP HIGHWAYS WITHIN LAKE COUNTY, ILLINOIS. A MINIMUM OF 2 WORK ZONE SPEED LIMIT SIGNS SHALL BE REQUIRED PER DIRECTION OF TRAFFIC.
- EXISTING SPEED LIMIT SIGNS AND POST SHALL BE REMOVED AND RETURNED TO THE L.C.D.O.T.'S SIGN SHOP WITHIN 24 HOURS OF REMOVAL.
- ON MULTILANE HIGHWAYS, WORK ZONE SPEED LIMIT AND ADVANCE CONSTRUCTION SIGNING SHALL BE ON THE RIGHT SIDE RIGHT-OF-WAY AND THE LEFT MEDIAN, WHEN THE MEDIAN IS NOT PAVED AND THE WIDTH IS 10 FEET OR GREATER.
- ALL SIGNS SHALL BE PERMANENTLY POST MOUNTED IF THE SIGNS WILL BE DISPLAYED FOR MORE THAN 48 HOURS.

REVISIONS	DATE	APPROVED BY: A. KHAWAJA
		DATE: 4/14/09

WORK ZONE SPEED LIMIT SIGNING DIAGRAM
(SHEET 1 OF 2)

LC7203

FILE NAME = #FILE#

STRAND
170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = #USER#	DESIGNED - MAG	REVISED -
	DRAWN - VLF	REVISED -
	CHECKED - RKK	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LCDOT STANDARD DETAILS

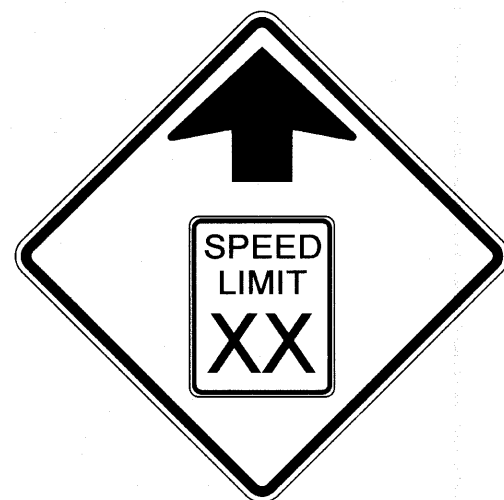
SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
266I	02-00076-13-CH	LAKE	177	107

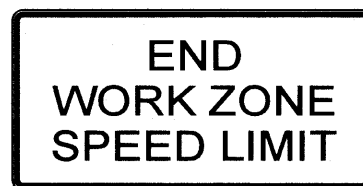
CONTRACT NO. 63457

WORK ZONE SPEED LIMIT SIGNS

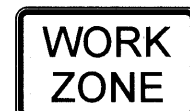
W2-5.1



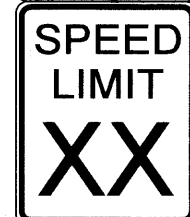
W3-5 (0) - 48



G20-1102, 24"X48"



W2-1115 (0)
3015



R2-1 3036



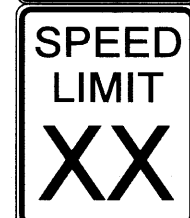
W2-1113 (0)
3011



R2-1106
3015



W2-1115 (0)
3015



R2-1 3036



R2-1106
3015

R2-1 SPECIAL

REVISIONS	DATE



APPROVED BY: A.KHAWAJA
DATE: 4/14/09

WORK ZONE SPEED LIMIT SIGNING DIAGRAM

(SHEET 2 OF 2)

LC7203

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT STANDARD DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
266I	02-00076-13-CH	LAKE	177	108
CONTRACT NO. 63457				

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

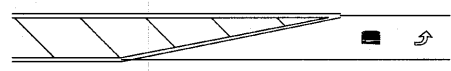
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STRAND
ASSOCIATES, INC.
ENGINEERS
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

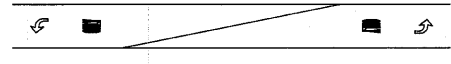
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	DRAWN - VLF	REVISED -
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PLOT DATE = #DATE#	DATE -	REVISED -

03457

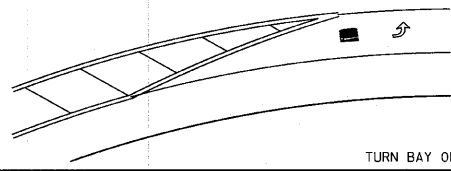
TYPICAL MINI-SKIP PAVEMENT MARKINGS



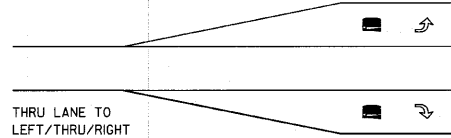
LANE REDUCTION



DOUBLE TAPER



TURN BAY ON CURVE

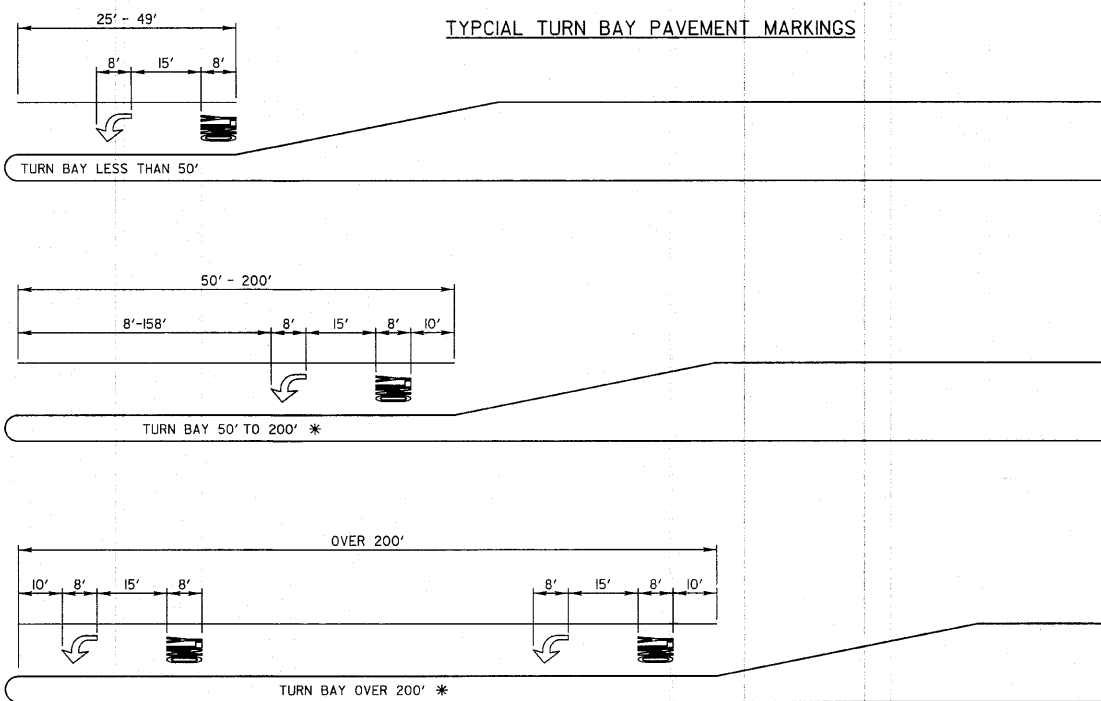


THRU LANE TO LEFT/THRU/RIGHT

MINI-SKIPS ARE 2 FEET WHITE LINE WITH 6 FEET SPACING. THE MINI-SKIP IS THE SAME WIDTH AS THE PAVEMENT MARKING LINE, IT EXTENDS.

TYPICAL PAVEMENT MARKINGS

TYPICAL TURN BAY PAVEMENT MARKINGS



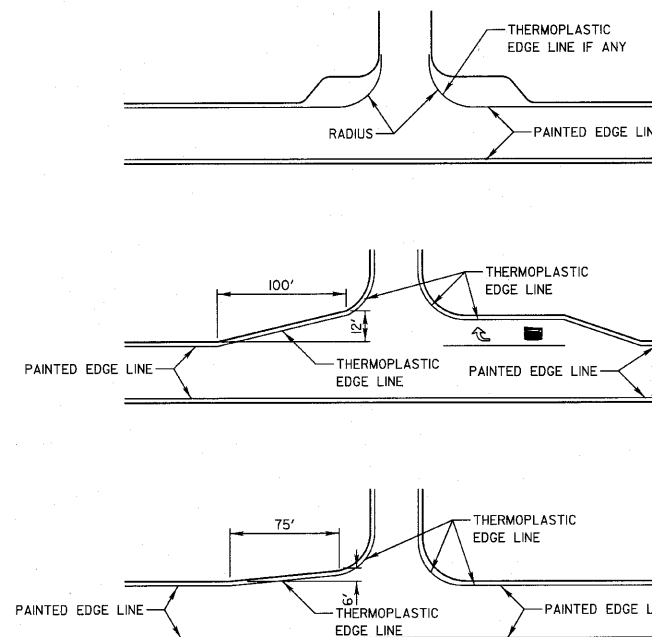
* AT INTERSECTIONS WITH VIDEO DETECTION, THE ARROW AND ONLY PAVEMENT MARKINGS SHALL BE A MINIMUM OF 30' BEHIND THE STOP BAR.

AREA = 15.6 SQ. FT.

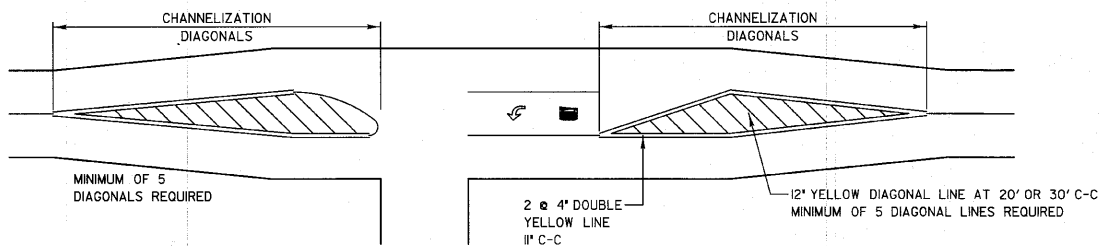
AREA = 20.8 SQ. FT.

FULL SIZE LETTERS (8") AND ARROWS SHALL BE USED. TURN LANES IN EXCESS OF 400' IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW W/ "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW W/ "ONLY".

EDGE LINE RADII AT SIDE STREETS



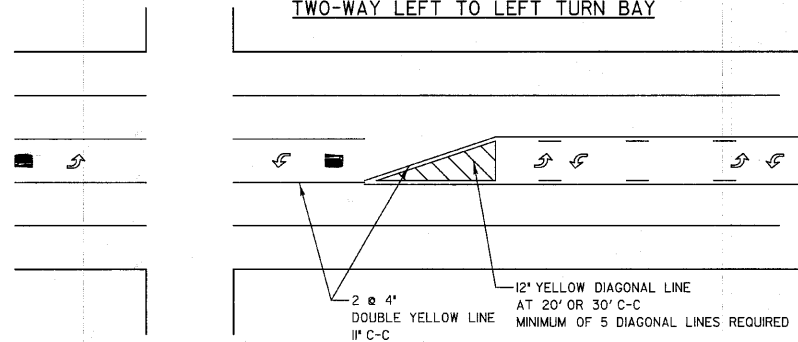
TWO LANE ROAD



TYPICAL DIAGONAL SPACING

SPEED LIMIT RANGE	DIAGONAL SPACING	
	CONTINUOUS	INTERSECTION CHANNELIZATION
30-45 MPH	75 FT.	20 FT.
OVER 45 MPH	150 FT.	30 FT.

TWO-WAY LEFT TO LEFT TURN BAY



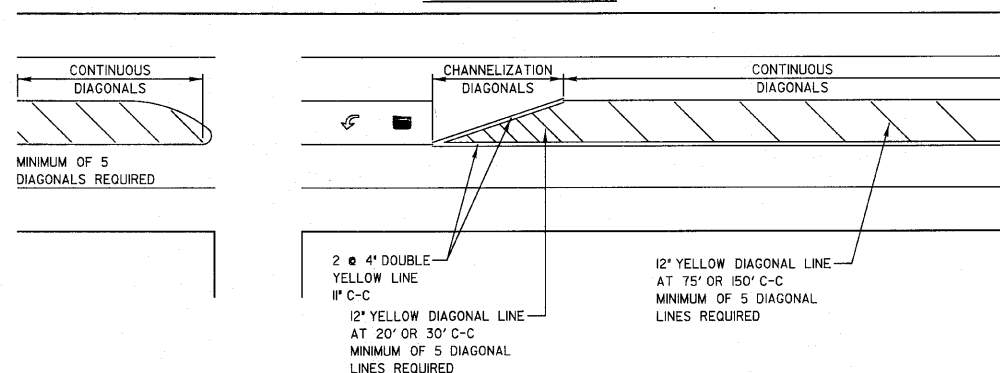
DUAL LEFT TURN ARROWS



31.2 SQ. FT. MINIMUM OF 2 SETS REQUIRED

A MINIMUM OF TWO PAIRS OF DUAL LEFT TURN ARROWS SHALL BE USED. THE DUAL LEFT TURN ARROWS SHALL BE WHITE IN COLOR. THE INTERVAL BETWEEN SETS OF DUAL LEFT TURN ARROWS SHOULD BE 200' AND 300'.

3 TO 5 LANE ROAD



REVISIONS	DATE	APPROVED BY: A. KHAWAJA
		DATE: APRIL 1, 2007

TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS SHEET 1 OF 2

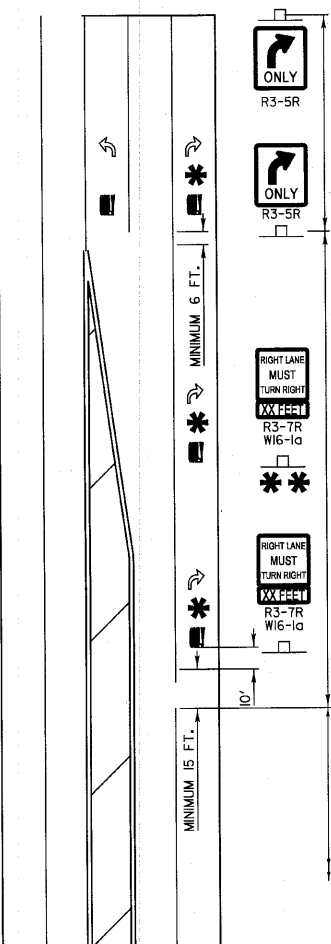
NO.	REVISIONS / REMARKS	DATE	BY	SURVEYOR:



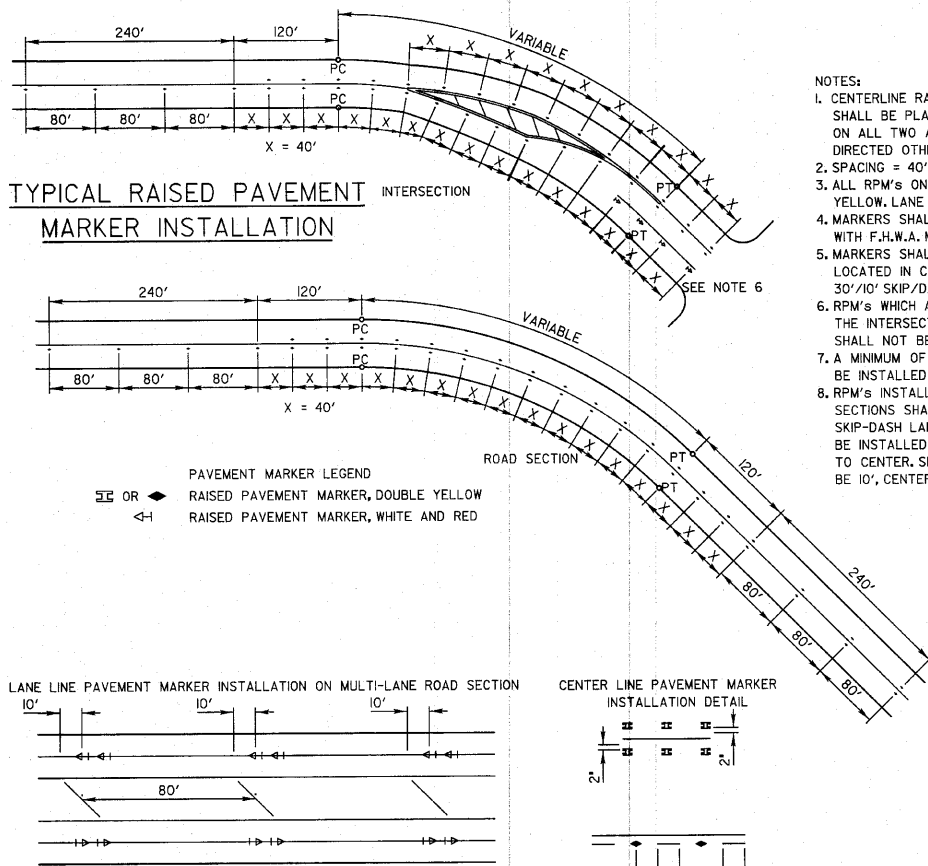
LAKE COUNTY STANDARDS & DETAILS

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH29	76	02-00076-13-CH	109	177

THRU LANE TO TURN LANE CONVERSION



TYPICAL PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS



MINIMUM TRANSITION ZONE LENGTH

POSTED SPEED LENGTH
 25 M.P.H. 255 FT.
 30 M.P.H. 330 FT.
 35 M.P.H. 405 FT.
 40 M.P.H. 480 FT.
 45 M.P.H. 555 FT.
 50 M.P.H. 630 FT.
 55 M.P.H. 705 FT.

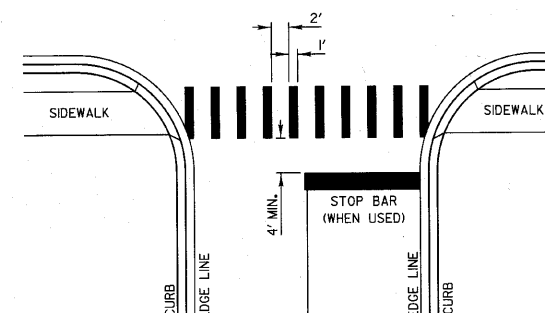
LOCATION OF PAV'T MARKINGS (MEASURED FROM BEGINNING OF TRANSITION ZONE)

POSTED SPEED	LOCATION OF PAV'T MARKINGS
25 M.P.H.	10 FT., 260 FT.
30 M.P.H.	10 FT., 170 FT., 340 FT.
35 M.P.H.	10 FT., 210 FT., 410 FT.
40 M.P.H.	10 FT., 170 FT., 330 FT., 490 FT.
45 M.P.H.	10 FT., 190 FT., 370 FT., 560 FT.
50 M.P.H.	10 FT., 170 FT., 330 FT., 490 FT., 640 FT.
55 M.P.H.	10 FT., 180 FT., 350 FT., 520 FT., 710 FT.

FOR POSTED SPEEDS 40 M.P.H. OR GREATER A SECOND R3-7/W16-1a SIGN INSTALLATION SHALL BE LOCATED HALFWAY BETWEEN THE BEGINNING OF THE TRANSITION ZONE AND THE BEGINNING OF THE TURN LANE

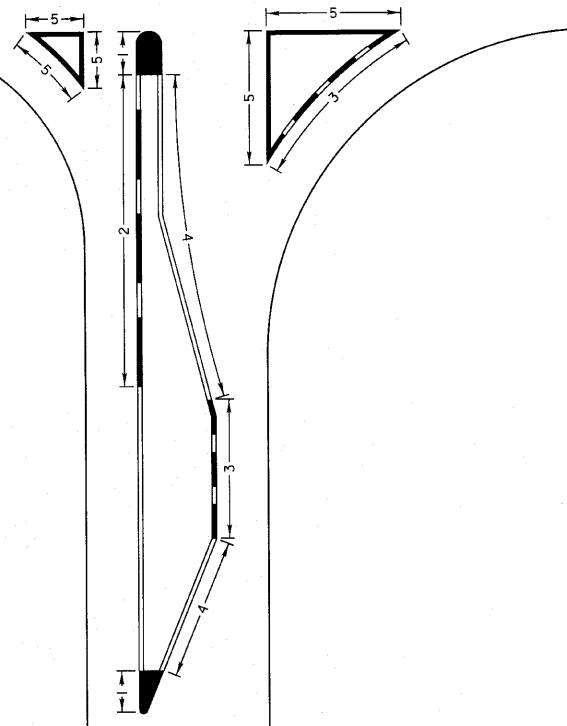
- NOTES:
- CENTERLINE RAISED PAVEMENT MARKERS (RPM'S) SHALL BE PLACED ON ALL CURVES OVER 3 1/2 DEGREES ON ALL TWO AND THREE LANE HIGHWAYS, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
 - SPACING = 40' FOR CENTERLINE MARKERS.
 - ALL RPM'S ON CENTERLINE ARE 2-WAY YELLOW. LANE LINE MARKERS ARE WHITE/RED.
 - MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH F.H.W.A. MEMORANDUM H10-21.
 - MARKERS SHALL BE FIELD ADJUSTED TO BE LOCATED IN CENTER OF THE 30' GAP OF A 30'/10' SKIP/DASH CENTERLINE.
 - RPM'S WHICH ARE TO BE LOCATED WITHIN THE INTERSECTION OF A CROSS STREET, SHALL NOT BE INSTALLED.
 - A MINIMUM OF 4 WHITE/RED MARKERS SHALL BE INSTALLED ALONG THE TURN LANE LINE.
 - RPM'S INSTALLED ON MULTI-LANE ROAD SECTIONS SHALL BE INSTALLED ON THE WHITE SKIP-DASH LANE LINE ONLY. THESE RPM'S SHALL BE INSTALLED IN PAIRS AND SHALL BE 80' CENTER TO CENTER. SPACING WITHIN EACH PAIR SHALL BE 10', CENTERED WITHIN THE 30' SKIP.

CROSSWALKS



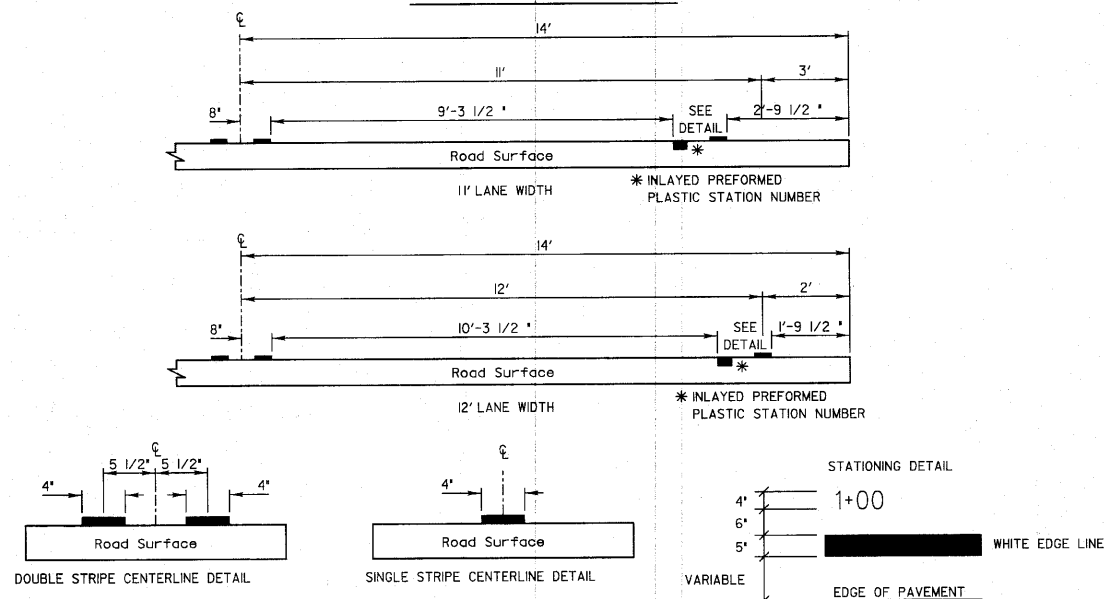
- WIDTH OF THE CROSSWALK IS GENERALLY 6' EXCEPT AT SCHOOL CROSSINGS AND BICYCLE CROSSINGS, WHICH CAN BE 8'.
- THE STOP BAR SHOULD BE INSTALLED A MINIMUM OF 4' IN ADVANCE OF THE CROSSWALK.

CURB MARKING



- NOTES:
- PAINT CURB AND NOSE SOLID FOR 10' OR RADIUS OF NOSE, WHICHEVER IS GREATER.
 - PAINT MINIMUM OF 3 STRIPES IN DIRECTION OF TRAFFIC.
 - REDUCED SPACING USED TO OBTAIN 3 STRIPE MINIMUM.
 - STRIPING RECOMMENDED ONLY WHERE OPERATIONAL PROBLEMS DICTATE.
 - PAINT SOLID WHERE A MINIMUM OF 3 STRIPES CANNOT BE PLACED.

PAVEMENT CROSS SECTION SHOWING TYPICAL PAVEMENT MARKINGS (2-LANE ROADWAY)



TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE OF 2 LANE PAVEMENT	4 IN.	SKIP-DASH	YELLOW	10 FT. LINE WITH 30 FT. SPACE
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 IN. 2 @ 4 IN.	SOLID	YELLOW	5 1/2 IN. C-C FROM SKIP-DASH CENTERLINE 11 IN. C-C (OMIT SKIP-DASH CENTERLINE BETWEEN)
CENTERLINE ON MULTI-LANE UNDIVIDED	2 @ 4 IN.	SOLID	YELLOW	11 IN. C-C
LANE LINES	4 IN.	SKIP-DASH	WHITE	10 FT. LINE WITH 30 FT. SPACE
DOTTED LINES (EXTENSIONS OF CENTERLINE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2 FT. LINE WITH 6 FT. SPACE
EDGE LINES	5 IN. WHITE 4 IN. YELLOW	SOLID	WHITE - RIGHT YELLOW - LEFT	OUTLINE RAISED MEDIANS IN YELLOW
TURN LANE MARKINGS	6 IN. LINE FULL SIZE LETTERS AND SYMBOLS (6 FT.)	SOLID	WHITE	TURN ARROW 15.6 SQ. FT. STRAIGHT ARROW 11.5 SQ. FT. ONLY 20.0 SQ. FT. COMB. ARROW 26.0 SQ. FT.
TWO WAY LEFT TURN MARKING	2 @ 4 IN. EACH DIRECTION 8 FT. LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10 FT. LINE WITH 30 FT. SPACE FOR SKIP-DASH 5 1/2 IN. C-C BETWEEN SKIP-DASH LINE AND SOLID LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK	12 IN. @ 90	SOLID	WHITE	12 IN. LONGITUDINAL BAR WITH 24 IN. SPACE 6 FT. TO 12 FT. WIDE SEE TYPICAL CROSSWALK MARKING DETAIL
STOP BARS	24 IN.	SOLID	WHITE	PLACE 4 FT. IN ADVANCE OF AND PARALLEL TO CROSSWALK IF PRESENT, OTHERWISE PLACE AT DESIRED STOPPING POINT.
PAINTED MEDIANS	2 @ 4 IN. WITH 11 IN. DIAGONALS @ 45 NO DIAGONALS USED FOR 4 FT. WIDE MEDIAN	SOLID	YELLOW - 2-WAY TRAFFIC WHITE - 1-WAY TRAFFIC	11 IN. C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING DETAIL MINIMUM OF 5 DIAGONALS
GORE MARKING AND CHANNELIZING LINES	8 IN. WITH 12 IN. DIAGONALS @ 45	SOLID	WHITE	DIAGONALS 15 FT. C-C (LESS THAN 30 M.P.H.) 20 FT. C-C (30 TO 45 M.P.H.) 30 FT. C-C (OVER 45 M.P.H.) MINIMUM OF 5 DIAGONALS
R.R. CROSSING	24 IN. TRANSVERSE LINES RR IS 6 FT. LETTER 16 IN. LINE FOR "X"	SOLID	WHITE	SEE I.D.D.T. STD. 780001 SO. FT. AREA OF: "R" = 36 SQ. FT. / "R" "X" = 840 SQ. FT.
SHOULDER DIAGONALS	12 IN. @ 45	SOLID	WHITE - RIGHT YELLOW - LEFT	50 FT. C-C (LESS THAN 30 M.P.H.) 75 FT. C-C (30 TO 45 M.P.H.) 150 FT. C-C (OVER 45 M.P.H.) MINIMUM OF 5 DIAGONALS

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO PART III MARKINGS IN THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND I.D.D.T. HIGHWAY STANDARD 780001 EFFECTIVE JAN. 9, 1998.

REVISIONS	DATE	APPROVED BY: A. KHAWAJA
		DATE: APRIL 1, 2007

Lake County
Division of Transportation

TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS
SHEET 2 OF 2

NO.	DESCRIPTION	DATE	BY	SURVEYOR:	
				DSG NR/LIAISON:	
				PLOTTED BY:	

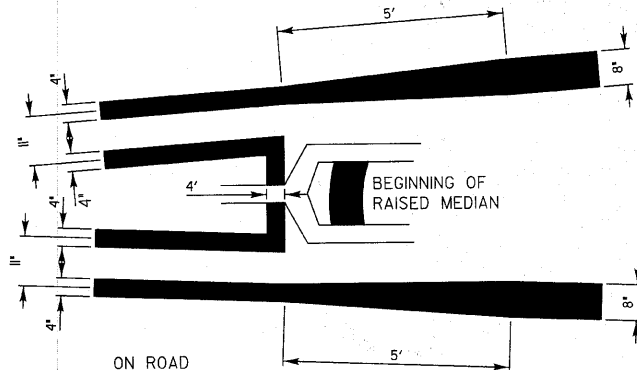
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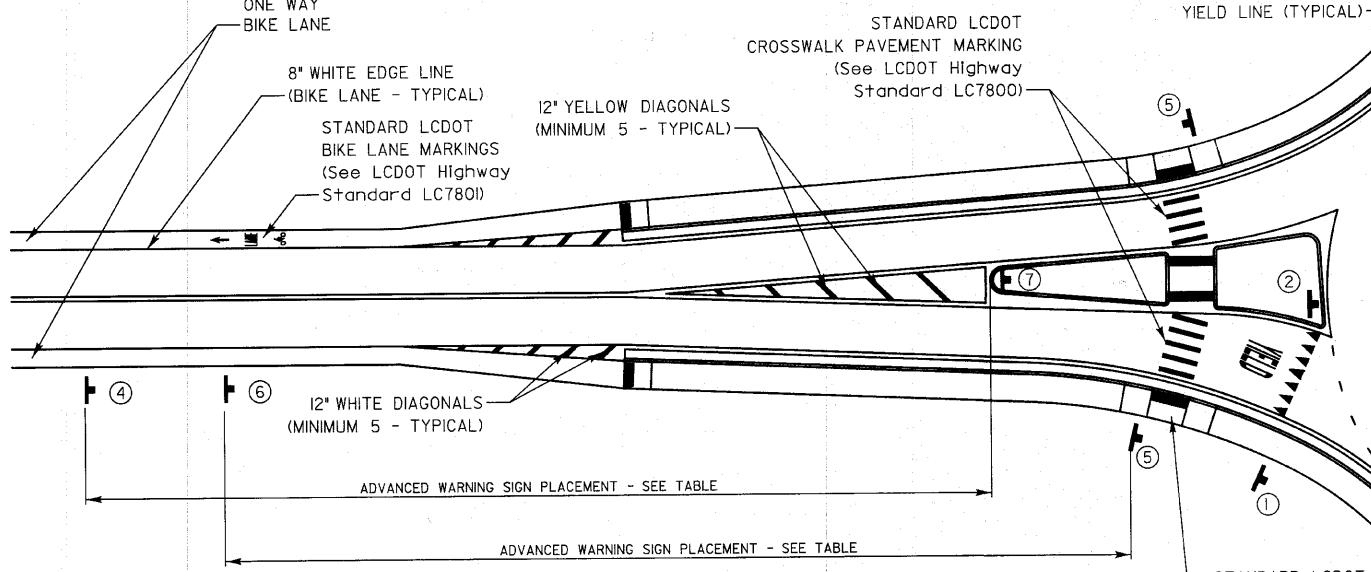
LAKE COUNTY STANDARDS & DETAILS

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH29	76	02-00076-13-CH	110	177

SPECIAL DETAIL FOR ROUNDABOUTS SIGNING and PAVEMENT MARKINGS



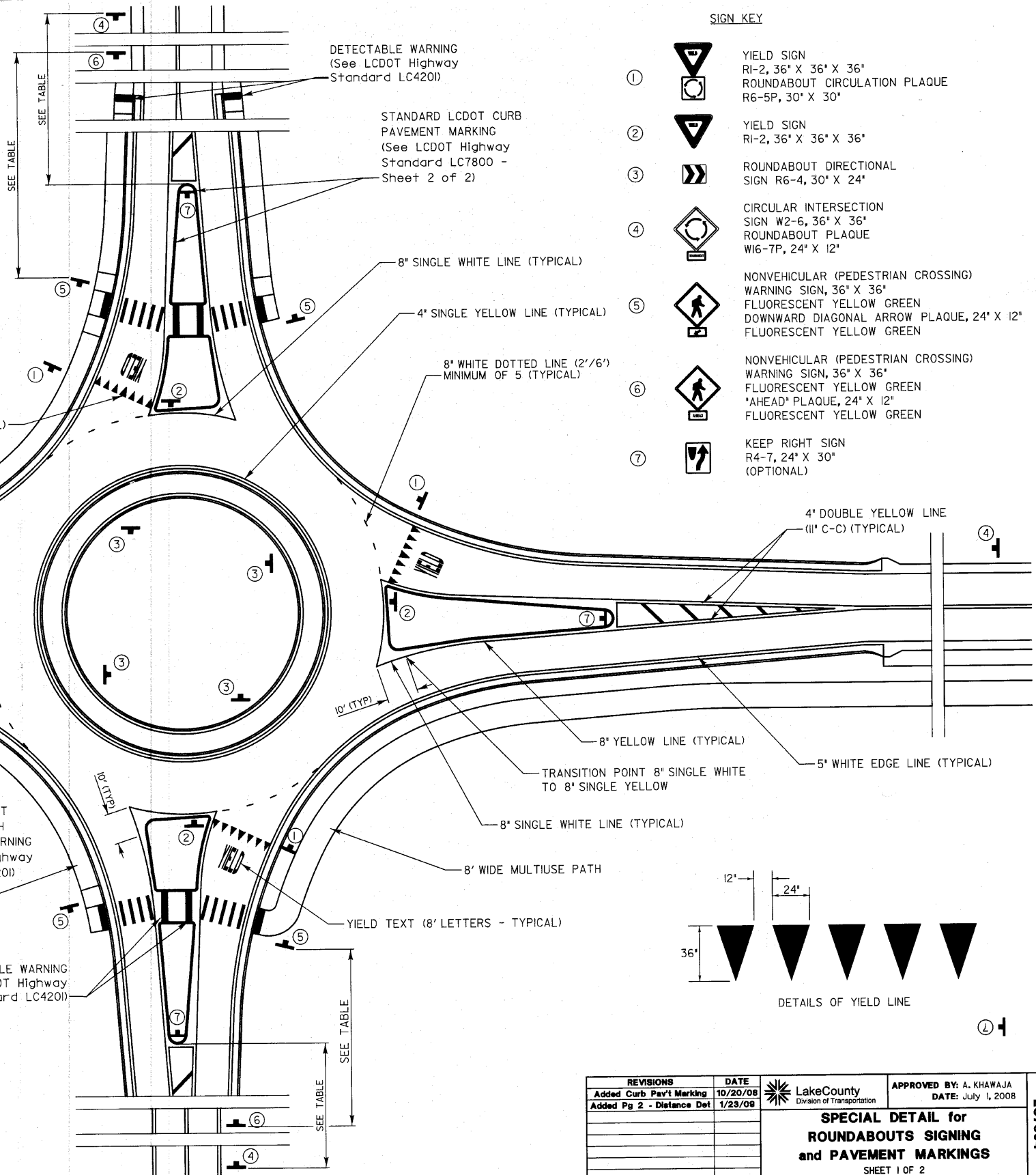
DETAILS OF 4' LINE TO 8' LINE TRANSITION
THE TRANSITION FROM THE 4' YELLOW LINE TO THE 8' YELLOW LINE SHALL START AT THE BEGINNING OF THE RAISED MEDIAN. THE WIDENING OF THE LINE SHALL BE ACCOMPLISHED WITH A SMOOTH TRANSITION AS SHOWN IN THE ABOVE DRAWING.



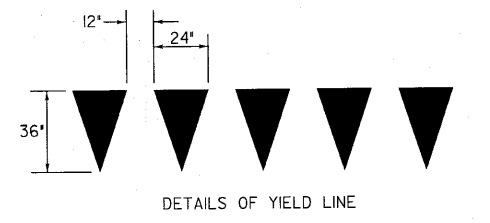
NOTE:
EACH QUADRANT OF THIS STANDARD DEPICTS A DIFFERENT CONDITION. THE INTERSECTION SHOULD NOT BE VIEWED AS A WHOLE.

ADVANCE WARNING SIGN PLACEMENT

POSTED SPEED LIMIT	DISTANCE IN ADVANCE OF THE INTERSECTION
20 - 40 MPH	200 FEET
45 - 55 MPH	400 FEET



- SIGN KEY**
- ① YIELD SIGN
RI-2, 36" X 36" X 36"
ROUNDABOUT CIRCULATION PLAQUE
R6-5P, 30" X 30"
 - ② YIELD SIGN
RI-2, 36" X 36" X 36"
 - ③ ROUNDABOUT DIRECTIONAL
SIGN R6-4, 30" X 24"
 - ④ CIRCULAR INTERSECTION
SIGN W2-6, 36" X 36"
ROUNDABOUT PLAQUE
WI6-7P, 24" X 12"
 - ⑤ NONVEHICULAR (PEDESTRIAN CROSSING)
WARNING SIGN, 36" X 36"
FLUORESCENT YELLOW GREEN
DOWNWARD DIAGONAL ARROW PLAQUE, 24" X 12"
FLUORESCENT YELLOW GREEN
 - ⑥ NONVEHICULAR (PEDESTRIAN CROSSING)
WARNING SIGN, 36" X 36"
FLUORESCENT YELLOW GREEN
"AHEAD" PLAQUE, 24" X 12"
FLUORESCENT YELLOW GREEN
 - ⑦ KEEP RIGHT SIGN
R4-7, 24" X 30"
(OPTIONAL)



NO.	REVISIONS / REMARKS	DATE	BY	SURVEYOR
	DESCRIPTION			



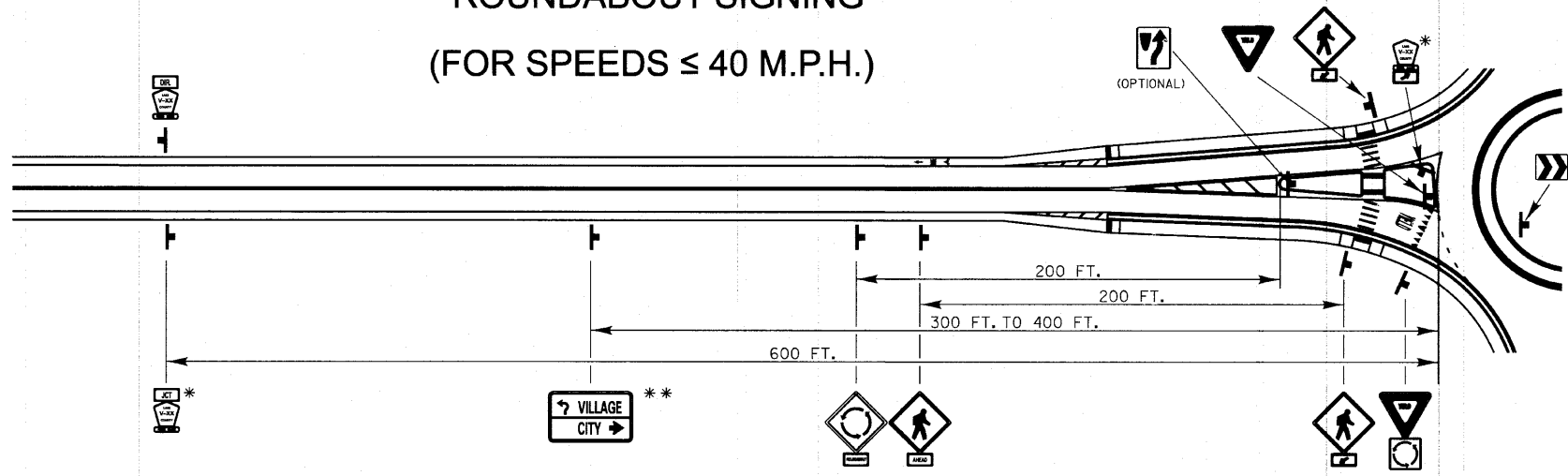
TYPICAL SECTIONS

REVISIONS	DATE	APPROVED BY	DATE
Added Curb Pav't Marking	10/20/08	A. KHAWAJA	July 1, 2008
Added Pg 2 - Distance Det	1/23/09		

SPECIAL DETAIL for ROUNDABOUTS SIGNING and PAVEMENT MARKINGS
SHEET 1 OF 2

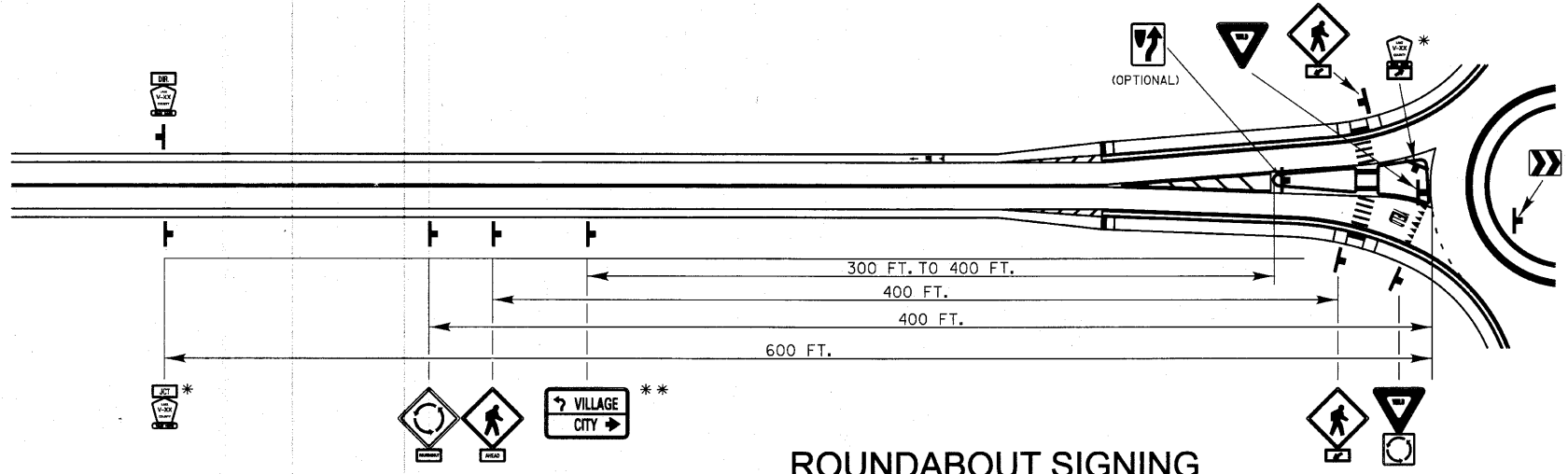
ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH29	76	02-00076-13-CH	111	177

**ROUNDAABOUT SIGNING
(FOR SPEEDS ≤ 40 M.P.H.)**



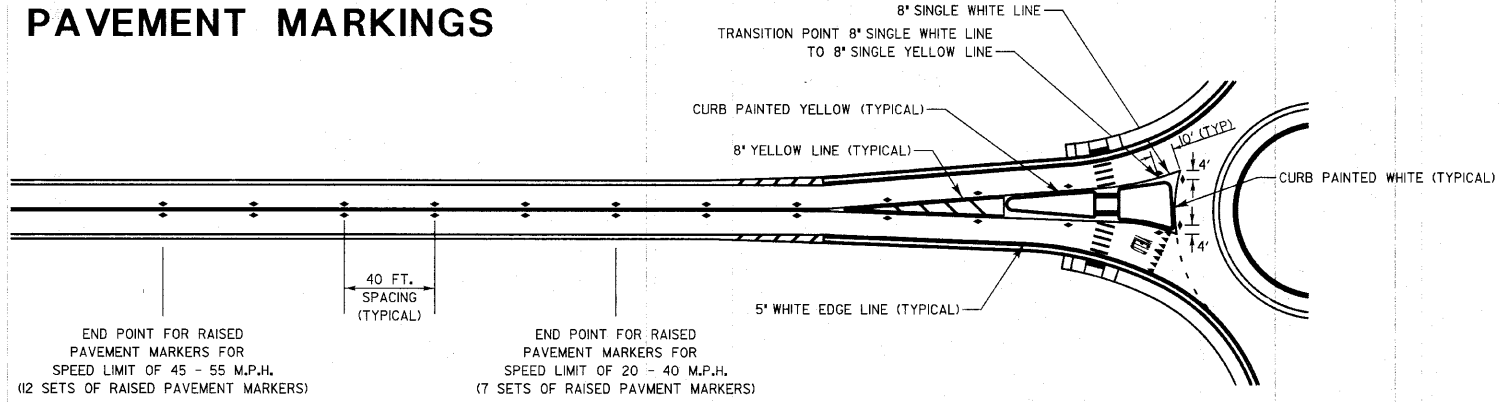
* FOR NON-MARKED ROUTES, USE ADVANCE INTERSECTION NAME SIGN WITH ROUNDAABOUT SYMBOL
** OPTIONAL

**SPECIAL DETAIL FOR ROUNDAABOUTS
SIGNING and PAVEMENT MARKINGS**



**ROUNDAABOUT SIGNING
(FOR SPEEDS ≥ 45 M.P.H.)**

**ROUNDAABOUT
PAVEMENT MARKINGS**



END POINT FOR RAISED PAVEMENT MARKERS FOR SPEED LIMIT OF 45 - 55 M.P.H. (12 SETS OF RAISED PAVEMENT MARKERS)
END POINT FOR RAISED PAVEMENT MARKERS FOR SPEED LIMIT OF 20 - 40 M.P.H. (7 SETS OF RAISED PAVEMENT MARKERS)

RAISED PAVEMENT MARKERS
45 - 55 mph = 12 Sets at 40' C-C
20 - 40 mph = 7 Sets at 40' C-C

REVISIONS	DATE	APPROVED BY:
Added Curb Pav't Marking	10/20/08	A. KHAWAJA
Added Pg 2 - Distance Det	1/23/09	DATE: July 1, 2008

Lake County
Division of Transportation

**SPECIAL DETAIL for
ROUNDAABOUTS SIGNING
and PAVEMENT MARKINGS**
SHEET 2 OF 2

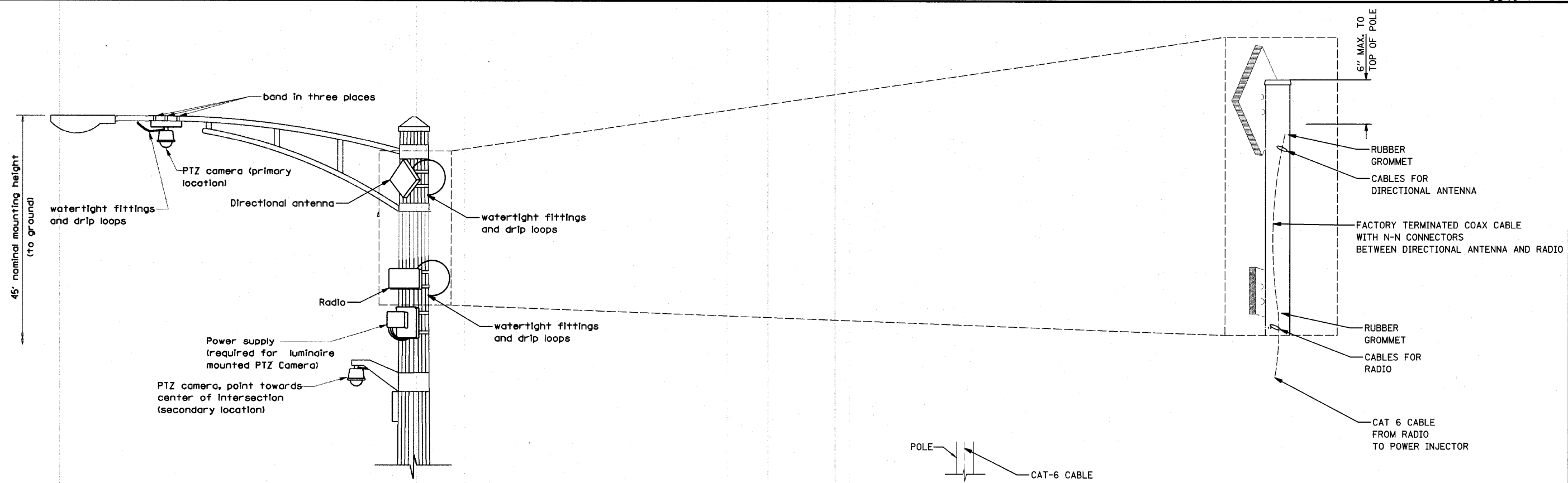
NO.	REVISIONS / REMARKS	DATE	BY	SURVEYOR:
	DESCRIPTION	/ /		
		/ /		
		/ /		



TYPICAL SECTIONS

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH29	76	02-00076-13-CH	112	177

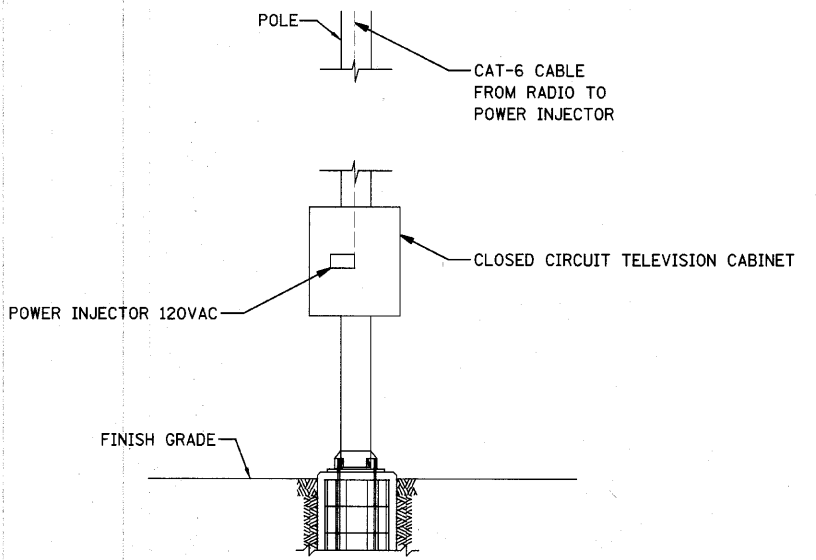
6345



**WIRELESS ANTENNA, RADIO,
AND PTZ CAMERA MOUNTING DETAIL**

(NOT TO SCALE)

NOTES FOR SINGLE, DUAL AND MULTIPLE MVP MOUNTING:
- MOUNT LUMINAIRE MOUNTING BRACKET AS HIGH AS POSSIBLE.



**WIRELESS ANTENNA AND RADIO INSTALLATION
ON CAMERA MOUNTING ASSEMBLY DETAIL**

(NOT TO SCALE)

MANUFACTURER AND PART NOS.:
WIRELESS ANTENNA: HUBER & SUHNER SPA5600/9/23/0/V OR APPROVED EQUAL
RADIO: CISCO AIR-LAP1522AG-A-K9 OR APPROVED EQUAL
POWER INJECTOR: CISCO AIR-PWRINJ1500-2 OR APPROVED EQUAL

REVISIONS	DATE	APPROVED BY:
		DATE

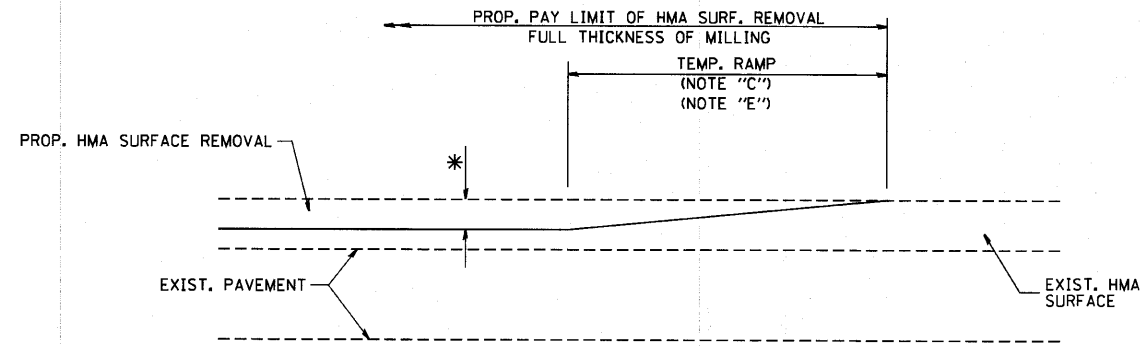


**WIRELESS ANTENNA, RADIO &
POWER INJECTOR DETAIL**

NO.	REVISIONS / REMARKS	DATE	BY	SURVEYOR:	
	DESCRIPTION				

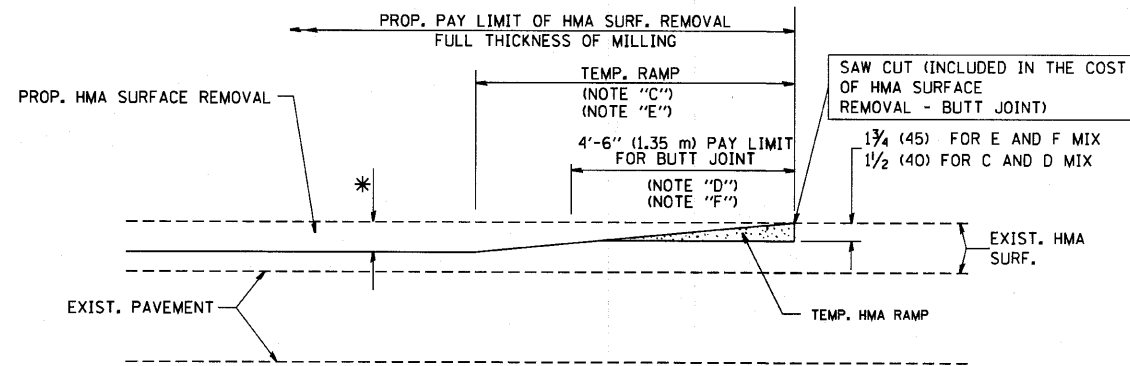


ROUTE	SECTION	SECTION NUMBER	SHEET	TOTAL SHEETS
CH28	78	02-00078-13-CH	113	177



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

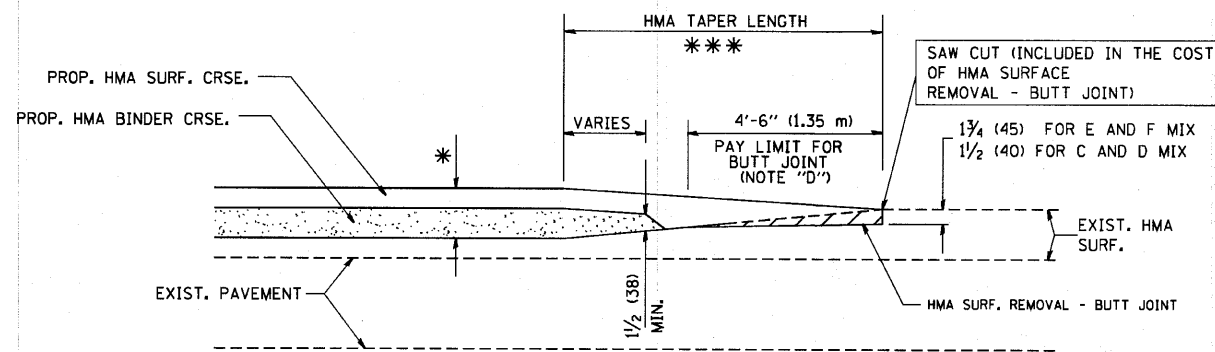
OPTION 1



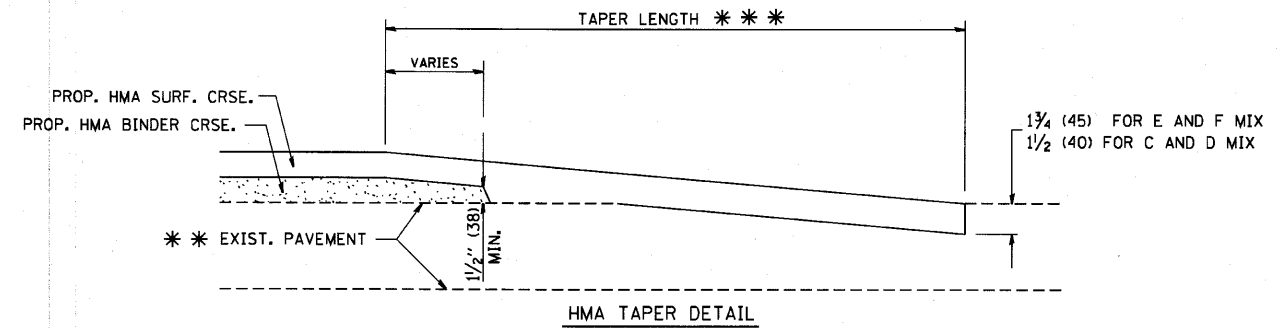
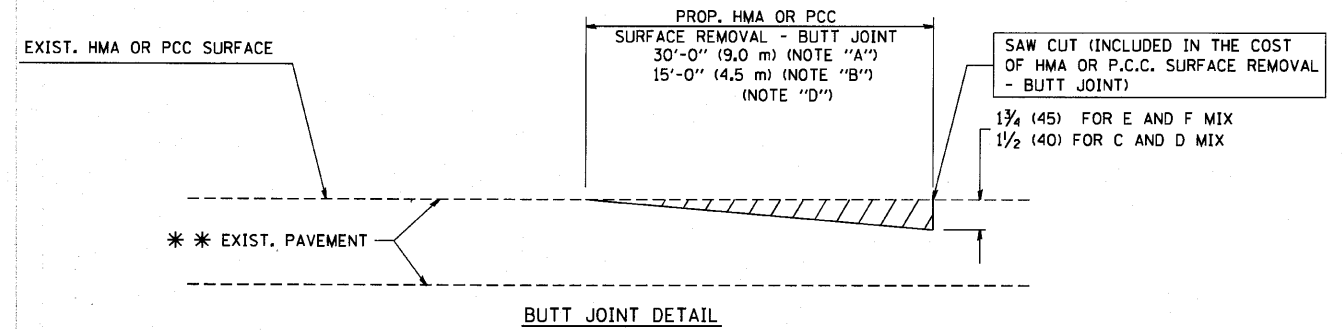
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



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.

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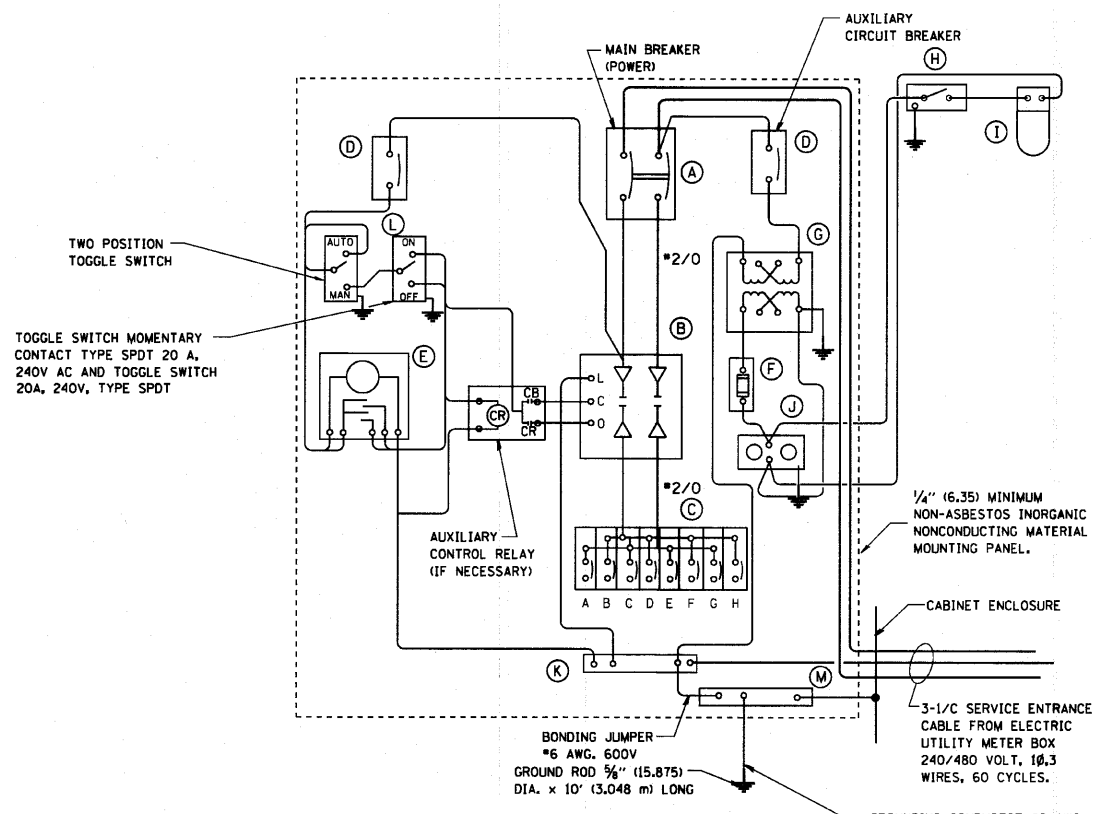
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PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED - A. ABBAS 03-21-97
PLOT DATE = 1/4/2008	CHECKED -	REVISED - M. GOMEZ 04-06-01
	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

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

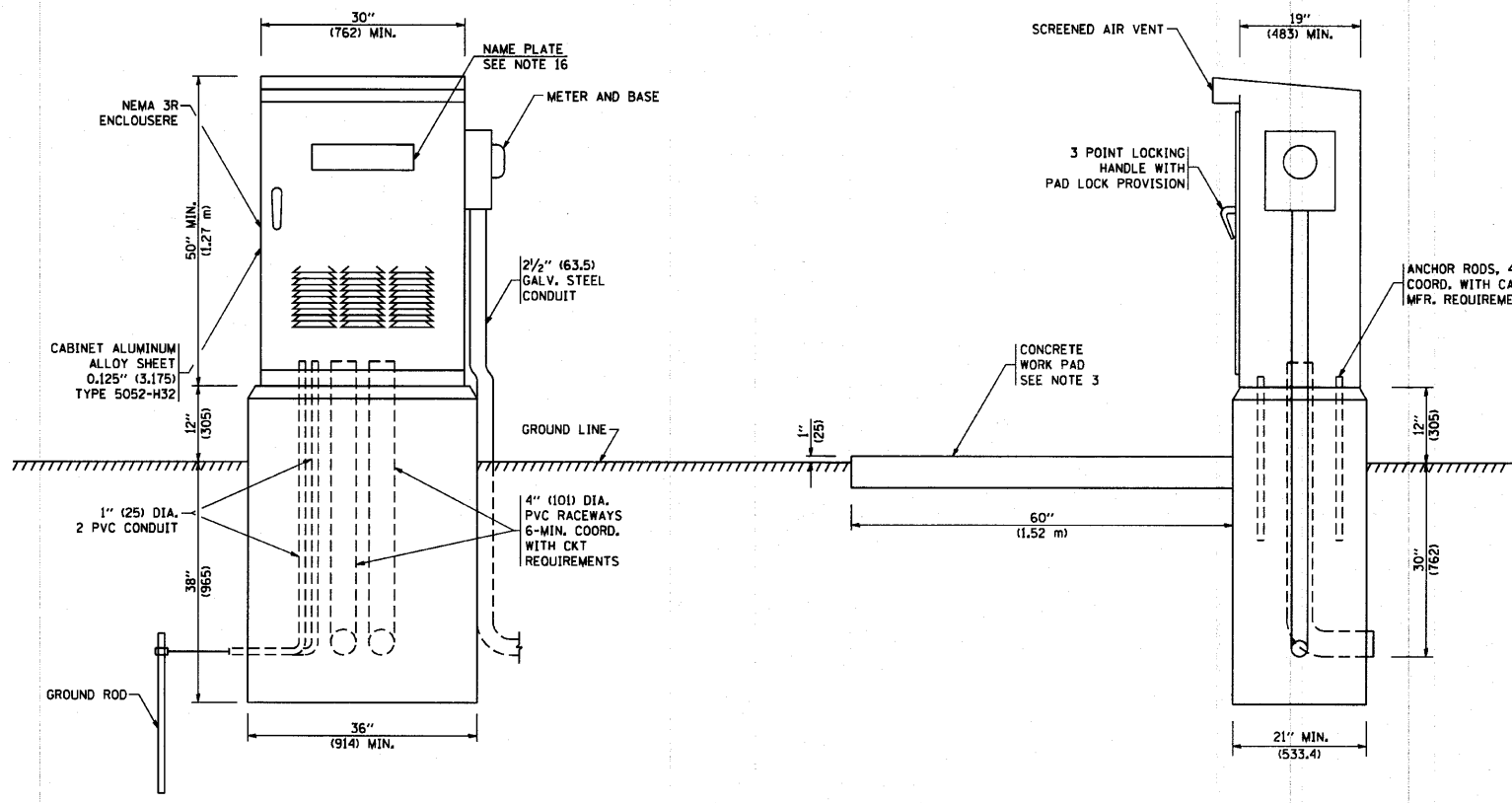
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2681	02-0076-13-CH	LAKE	177	114
BD400-05 BD32			CONTRACT NO. 63457	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



PANEL WIRING DIAGRAM

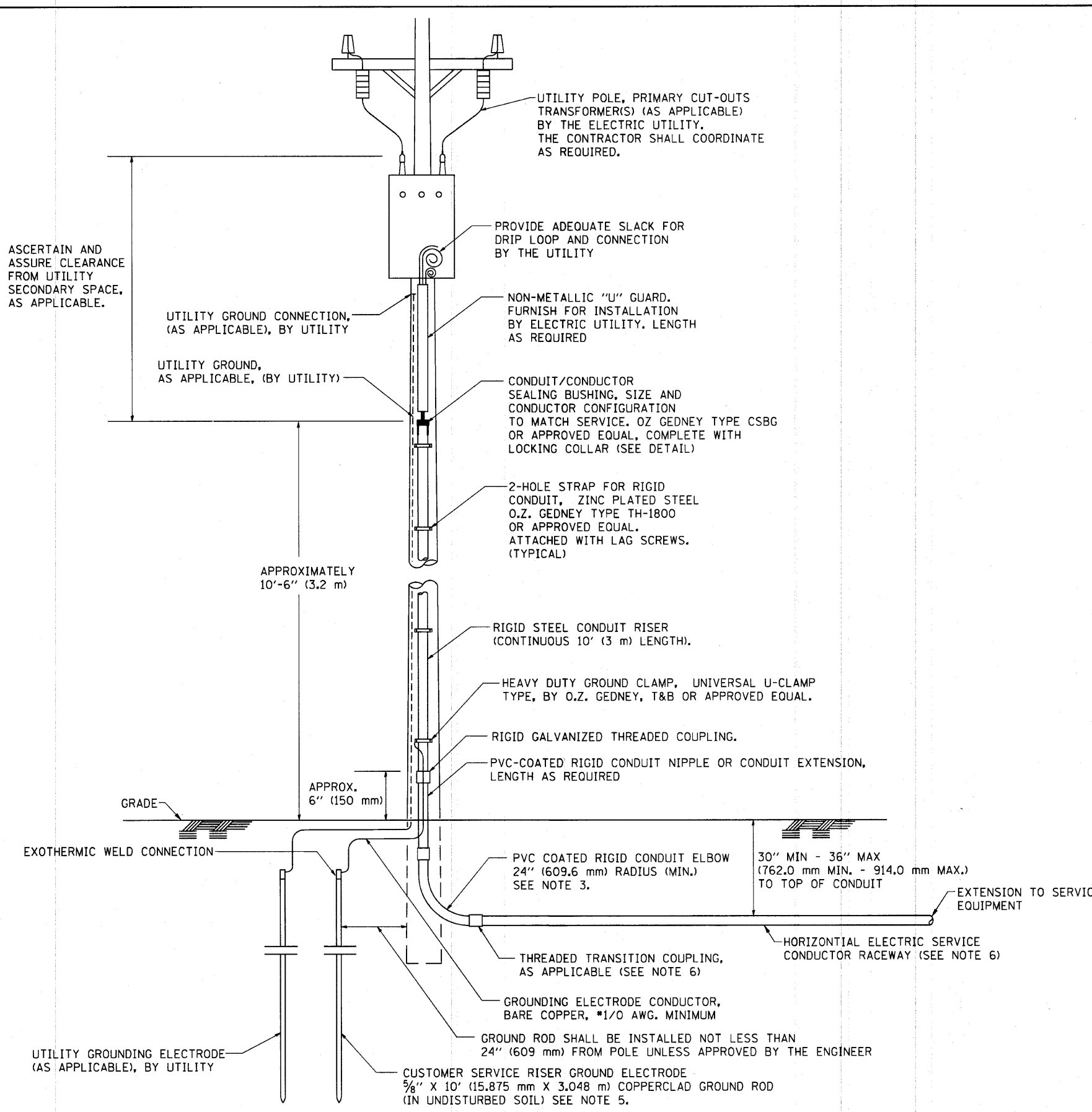
PANEL EQUIPMENT

BILL OF MATERIAL		
ITEM	QUANTITY	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 100 AMP. FRAME, 100 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 480 VOLT.
B	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., 600 VOLTS CONTROL CIRCUIT 240 VOLT.
C	8	CIRCUIT BREAKERS, 1 POLE, 100AMP. FRAME, 50 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-10,000 AMP. AT 240 V.
D	2	CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 240 V., 100 AMP. FRAME, 15 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-5000 AMP. AT 240 V.
E	1	ASTRONOMIC MICROPROCESSOR-BASED 2-CHANNEL CONTROLLER [TIME SWITCH].
F	1	20 A., 120 V. FUSE.
G	1	1.5 KVA, SINGLE PHASE, ENCAPSULATED TRANSFORMER 240 X 480 / 120 X 240 VOLT, 60 Hz.
H	1	SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN.
I	1	INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP.
J	1	20 A., 120 V., DUPLEX RECEPTACLE, GFCI.
K	1	COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
L	1	TOGGLE SWITCHES MOUNTED IN 4" (101.6) X 4" (101.6 mm) BOX.
M	1	COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS



NOTES:

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- FOUNDATION SIZE SHALL BE COORDINATED WITH CABINET SIZE AND MFR.
- IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" (50.8 mm) TOP SOIL, LEVEL THE AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 36" (914.4 mm) x 60" (1828.8 mm) x 4" (101.6 mm) MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
- DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
- DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
- DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 1/4" (6.35 mm) DIA. STAINLESS STEEL HINGE PIN.
- ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
- CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
- METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
- CABINETS SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN
- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- 12" (304.8) X 16" (406.4 mm) STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.

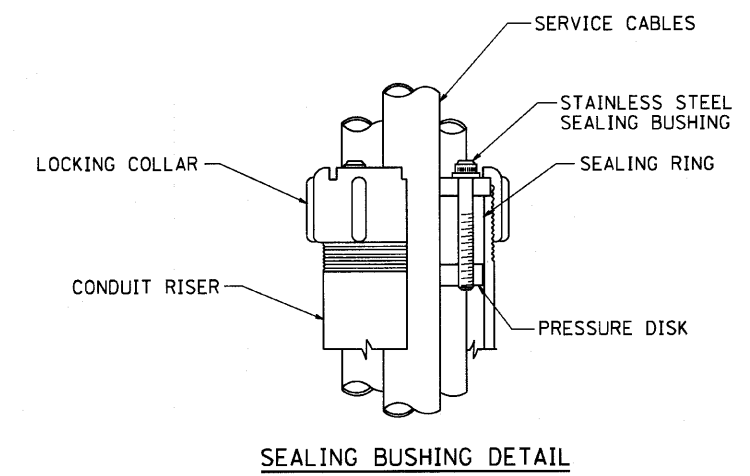


APPLICATION

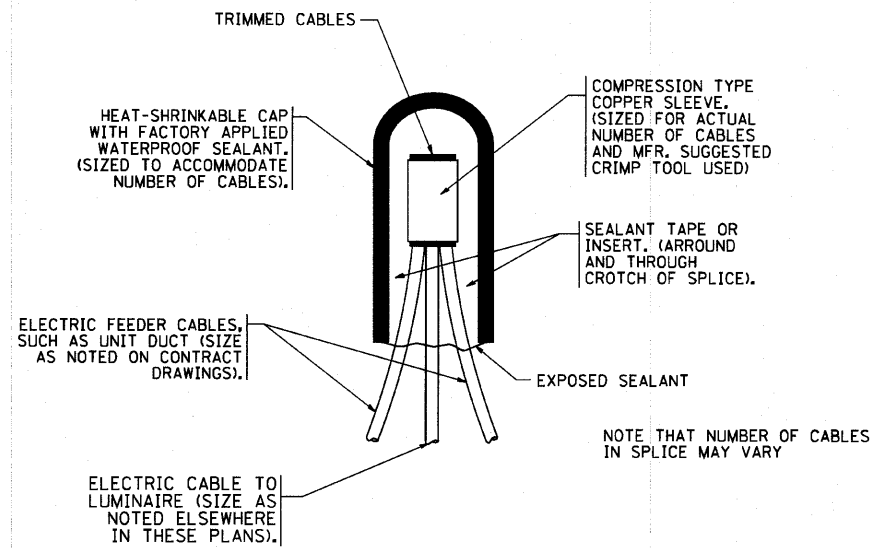
THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

NOTES

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

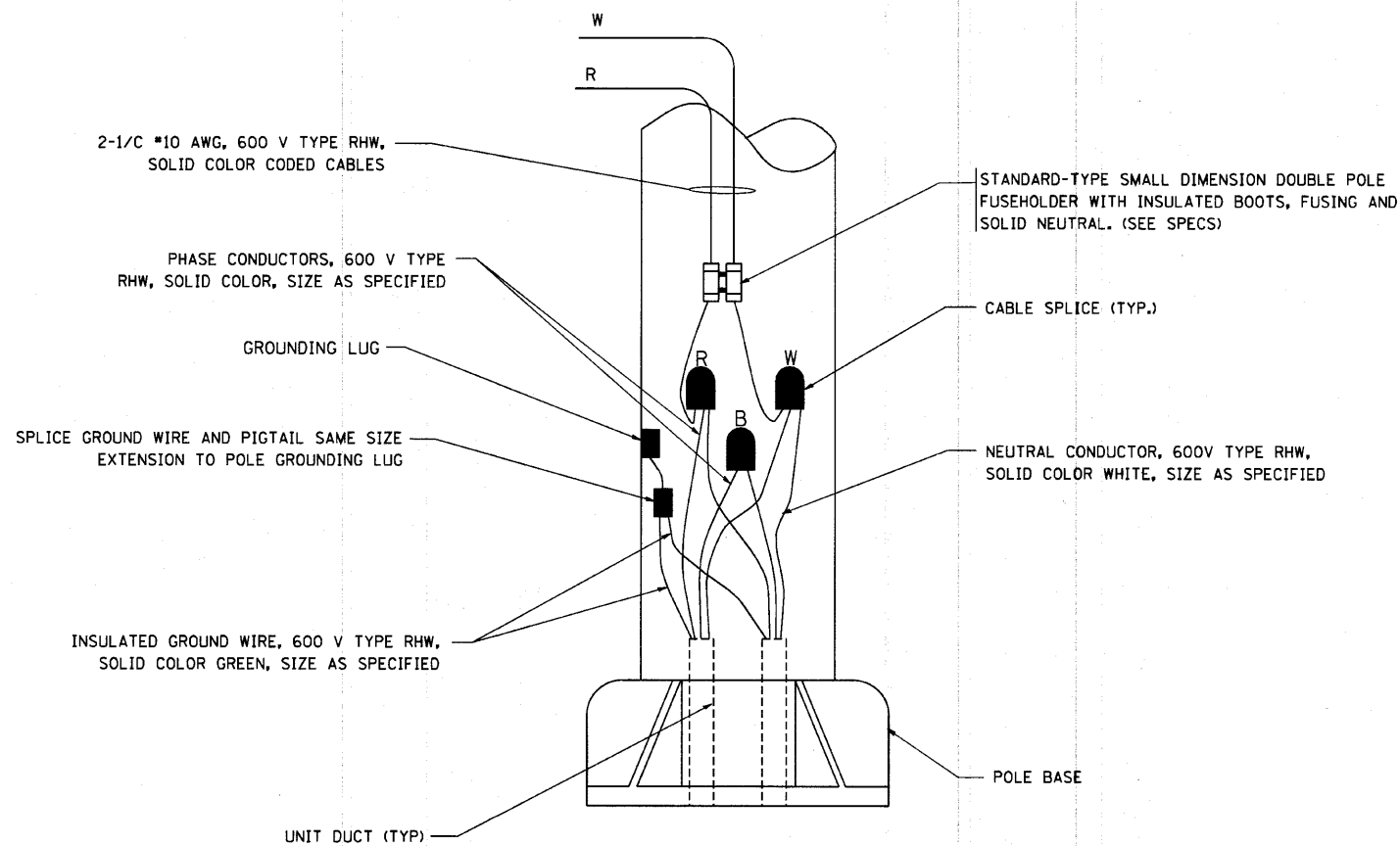


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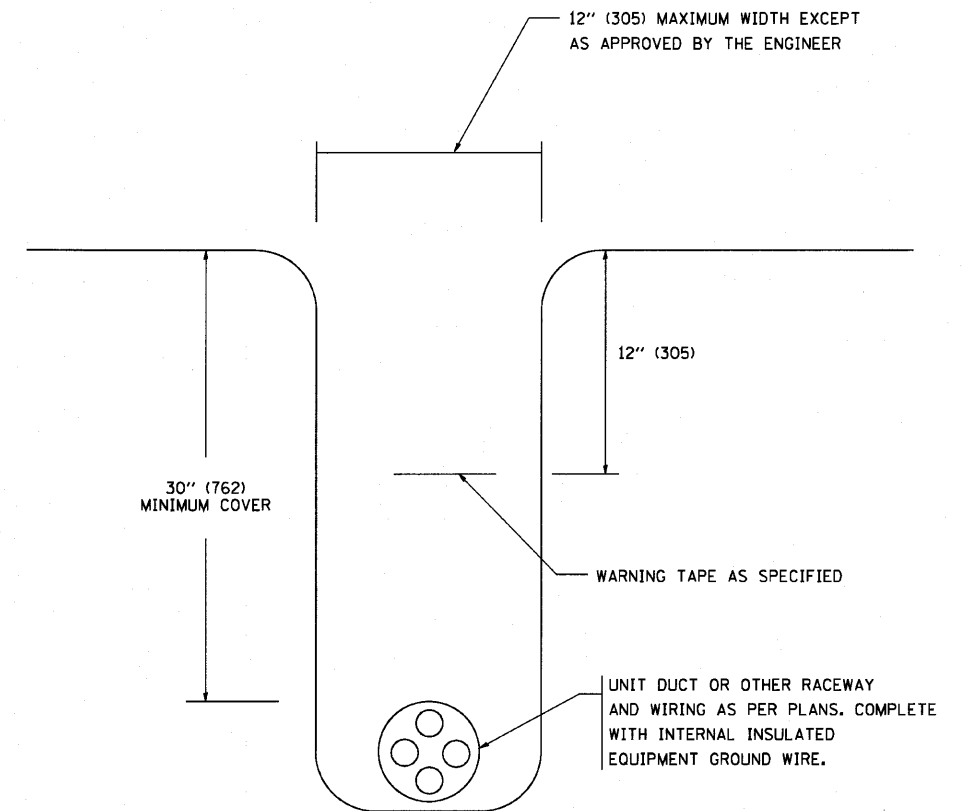
TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.

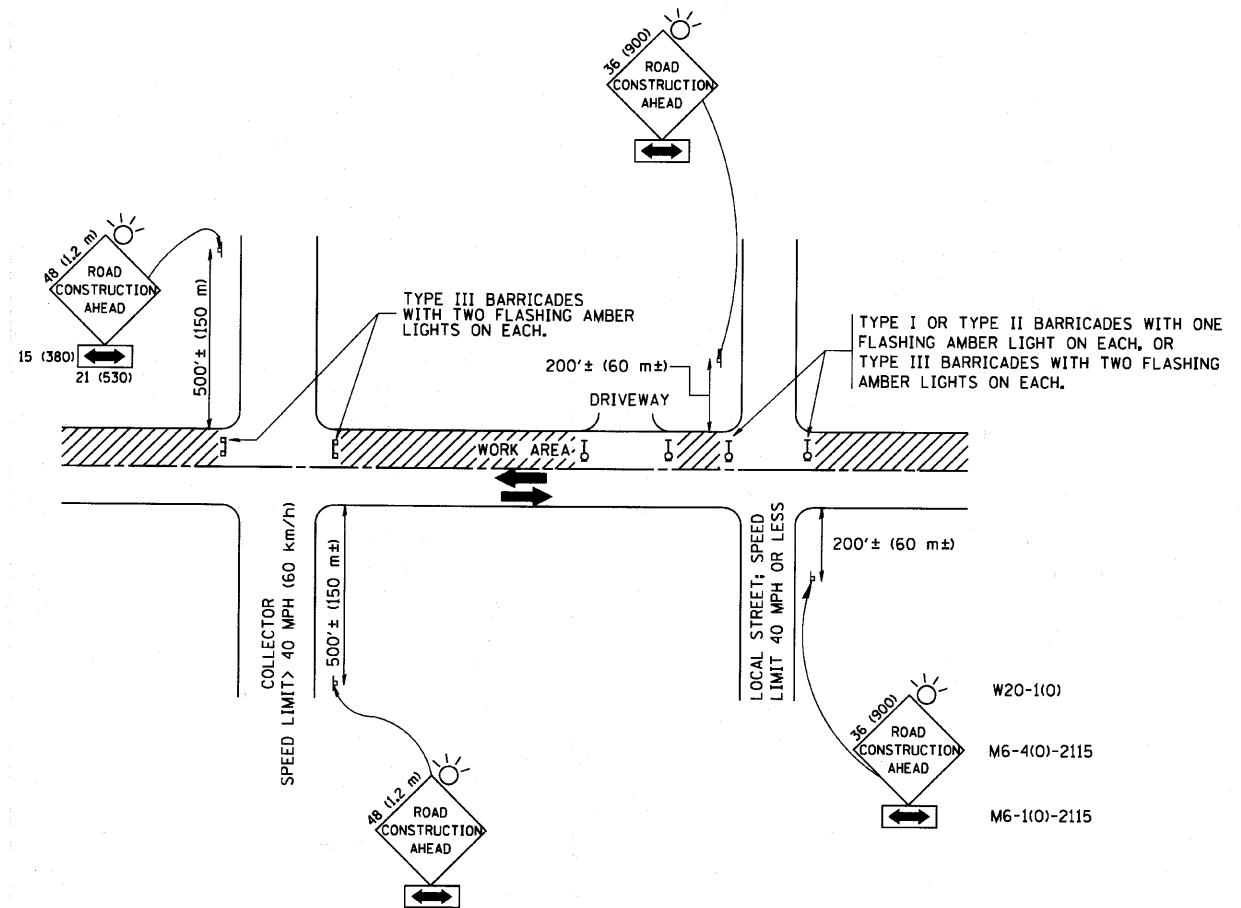
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISC. ELECTRICAL DETAILS
SHEET A

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

F.A. RTE. 2661	SECTION 02-00076-13-CH	COUNTY LAKE	TOTAL SHEETS 177	SHEET NO. 118
BE-702		CONTRACT NO. 63457		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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.

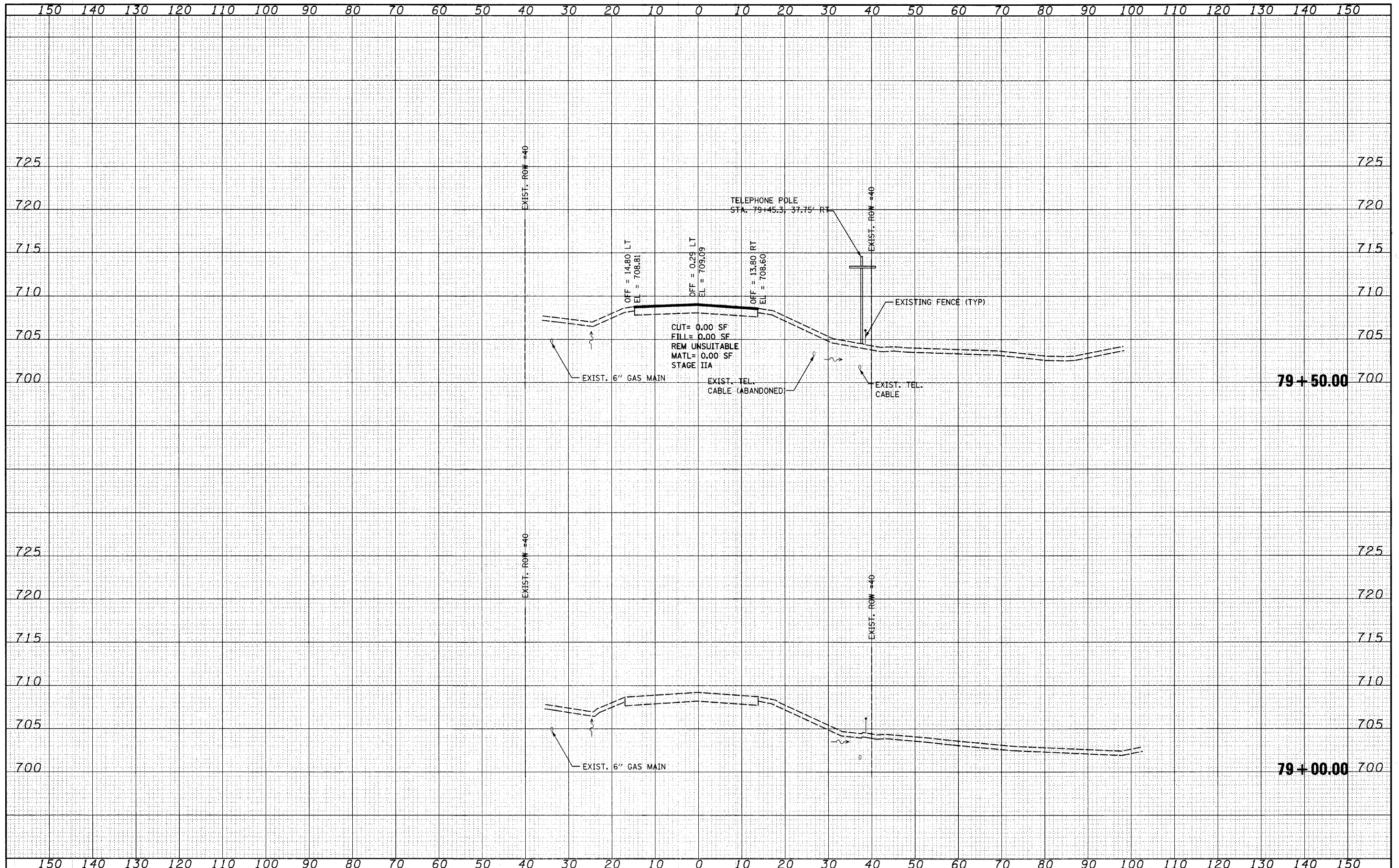
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	PLOT DATE = 1/4/2008	DATE - 05-89	REVISED - T. RAMMACHER 01-06-00

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		2661	02-00076-13-CH	Lake	177	119
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA.	TO STA.	
		TC-10		CONTRACT NO. 63457		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						

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 CHECKED - RKK
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 PLOT DATE = 4/1/2012

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

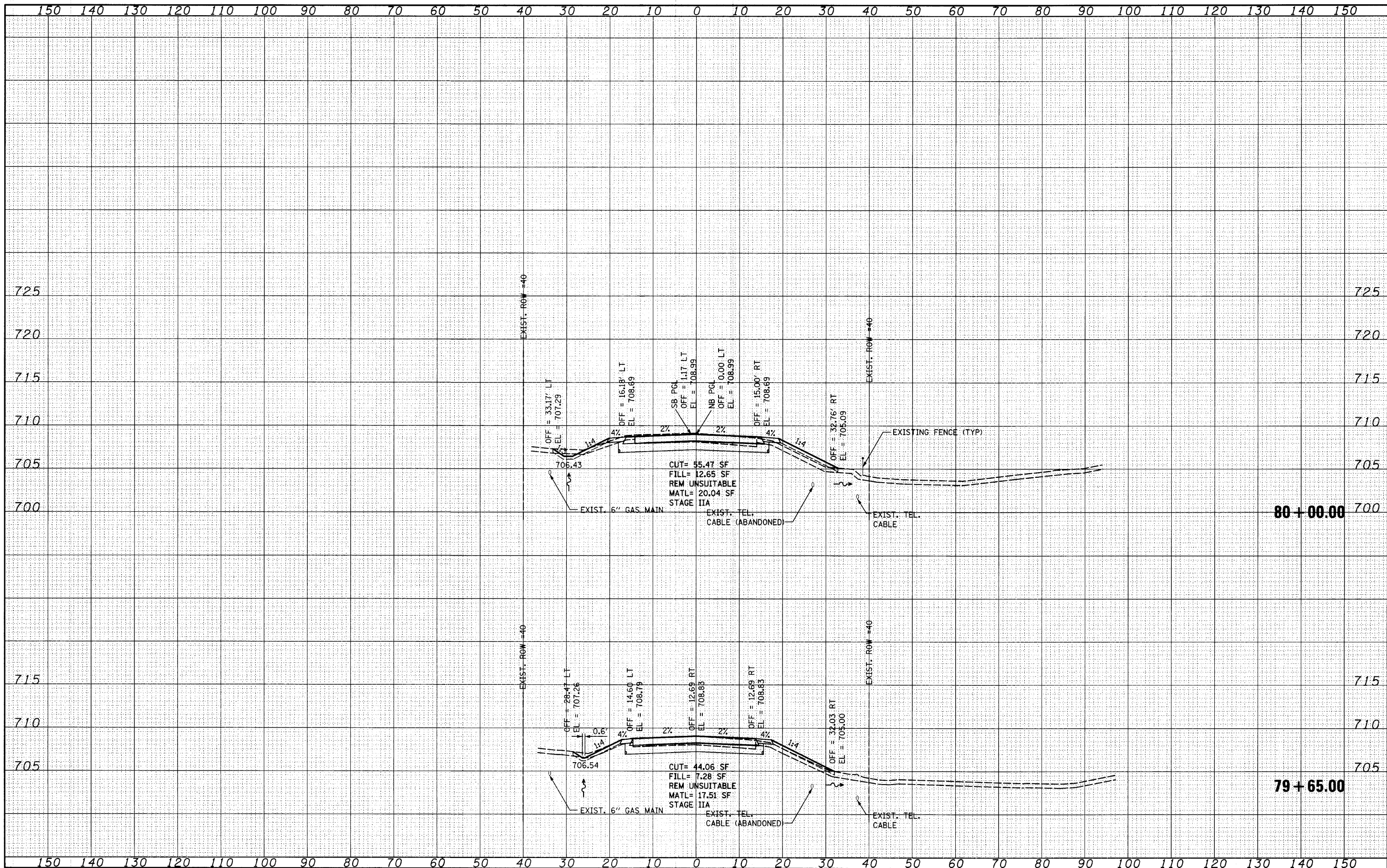
HUNT CLUB ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 79+00.00 TO STA. 79+50.00

F.A. RTE. 2661	SECTION 02-00076-13-CH	COUNTY LAKE	TOTAL SHEETS 177	SHEET NO. 120
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63457	

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

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



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

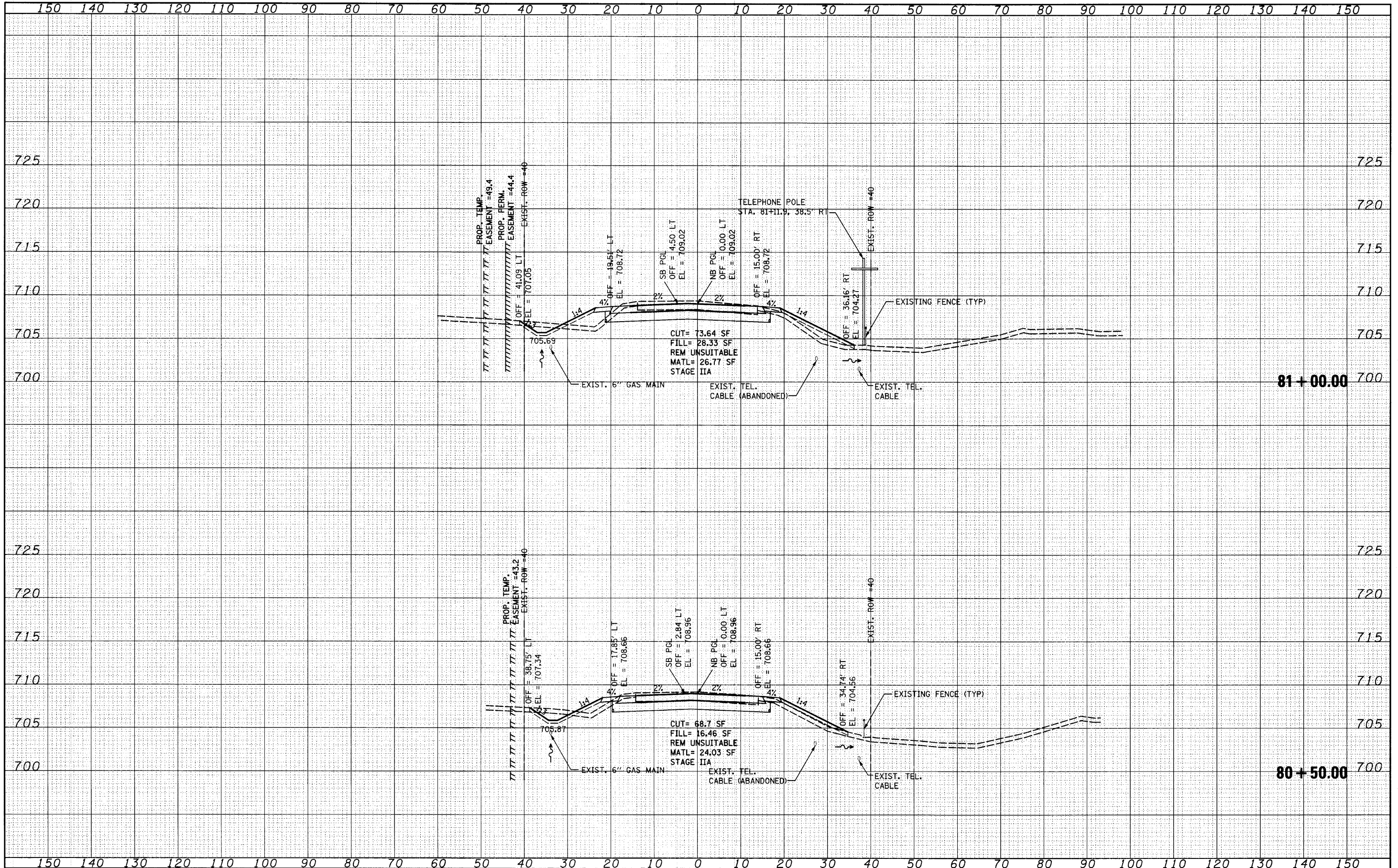
HUNT CLUB ROAD CROSS SECTIONS

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. 79+65.00 TO STA. 80+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	121
CONTRACT NO. 63457				

DATE	
BY	
SURVEYED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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DATE	
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SURVEYED	
TEMPLATE	
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

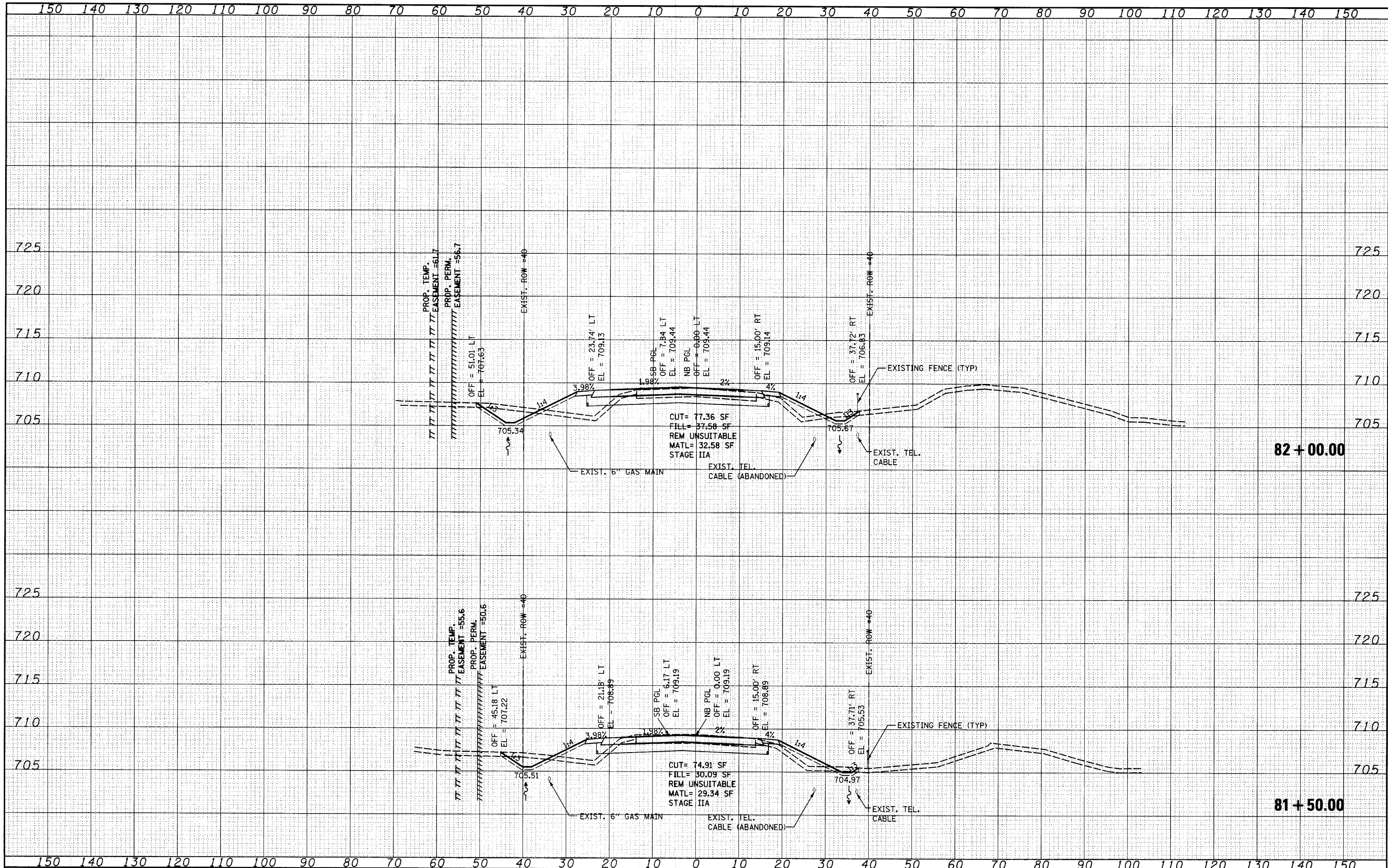
HUNT CLUB ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA 80+50.00 TO STA. 81+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	122
CONTRACT NO. 63457				

DATE	
BY	
SURVEYED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	

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BY	
SURVEYED	
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TEMPLATE	
AREAS CHECKED	



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

HUNT CLUB ROAD CROSS SECTIONS

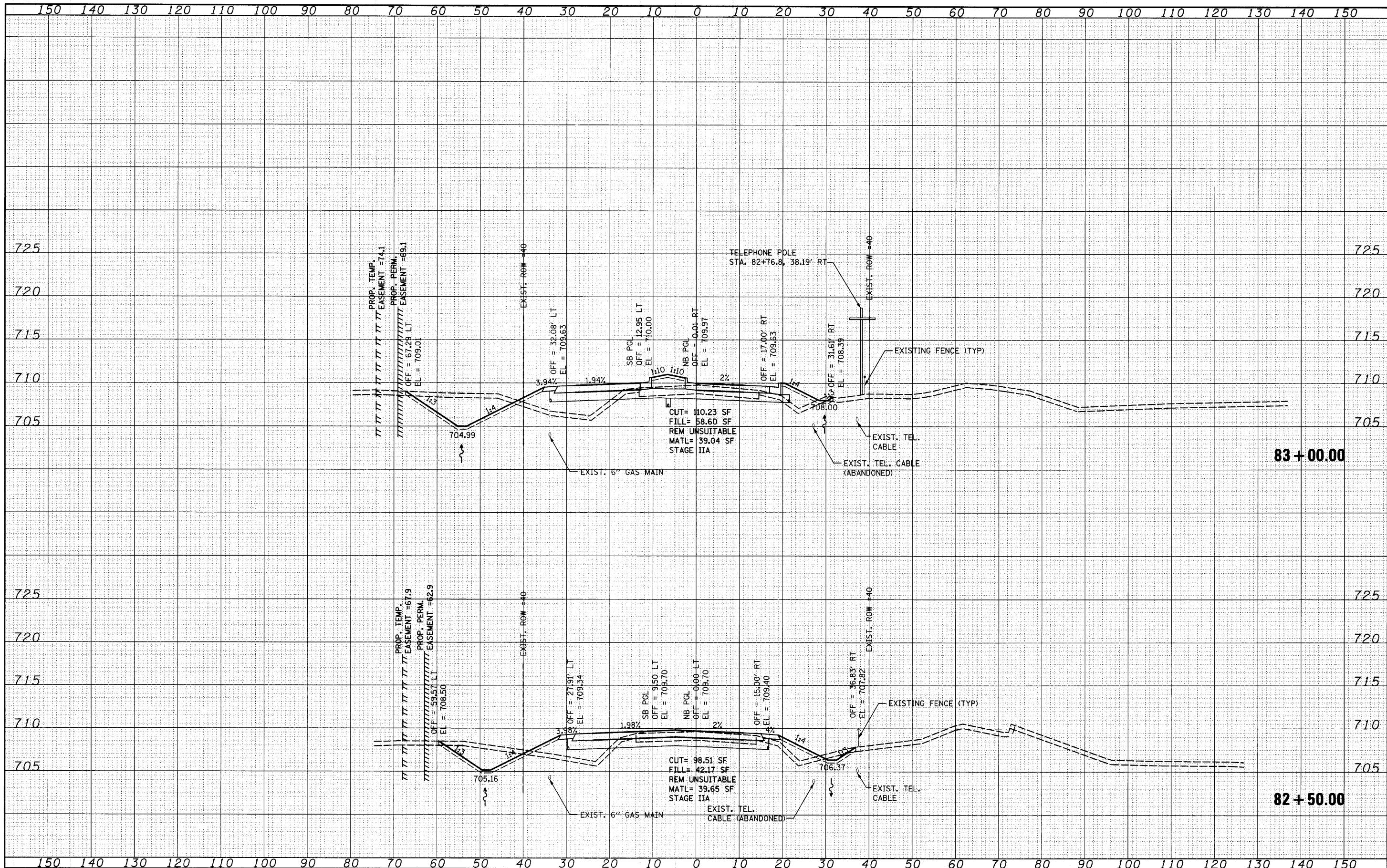
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2661	02-00076-13-CH	LAKE	177	123
CONTRACT NO. 63457				

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

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
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AREAS CHECKED	



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

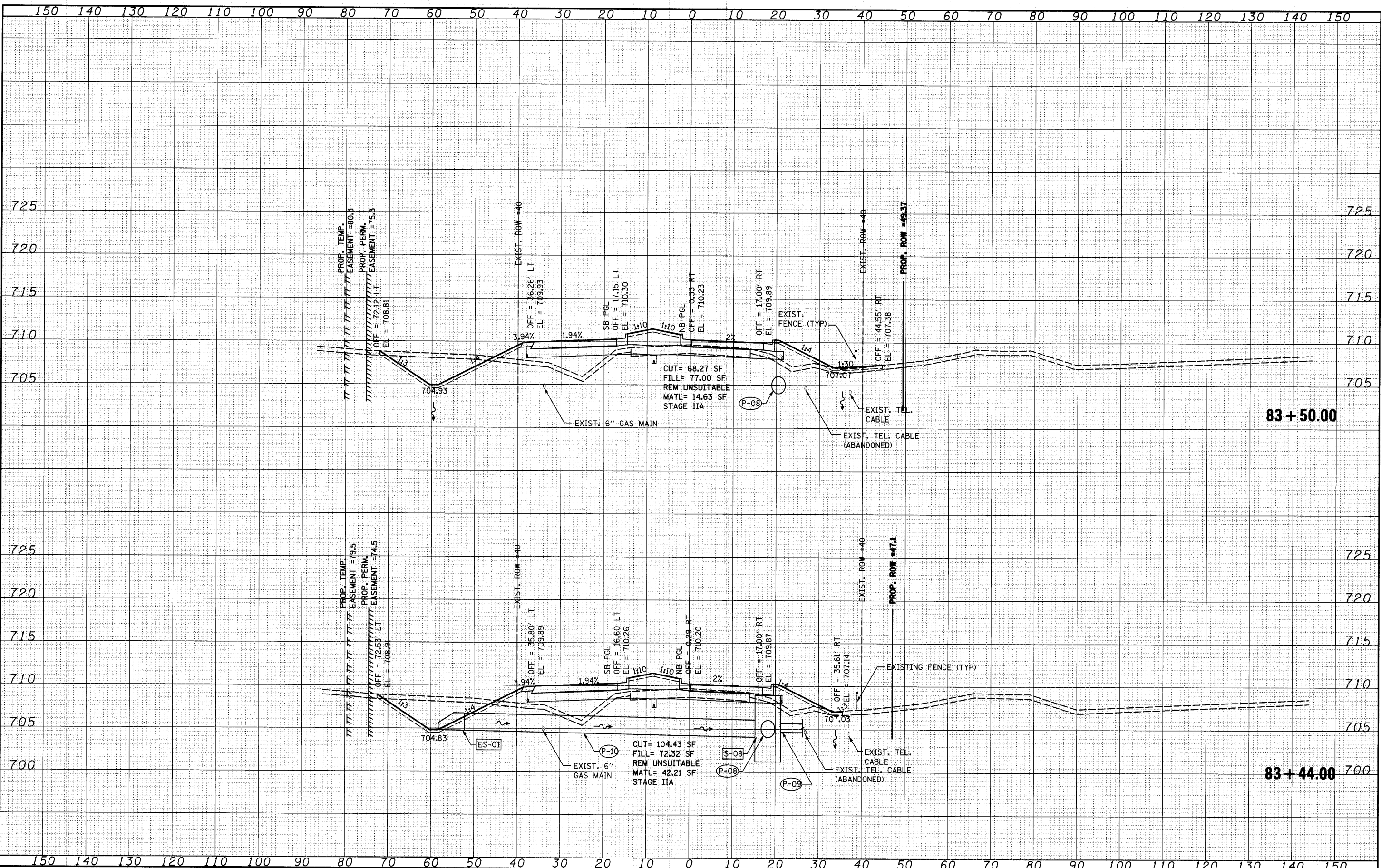
HUNT CLUB ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 82+50.00 TO STA. 83+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	124
CONTRACT NO. 63457				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
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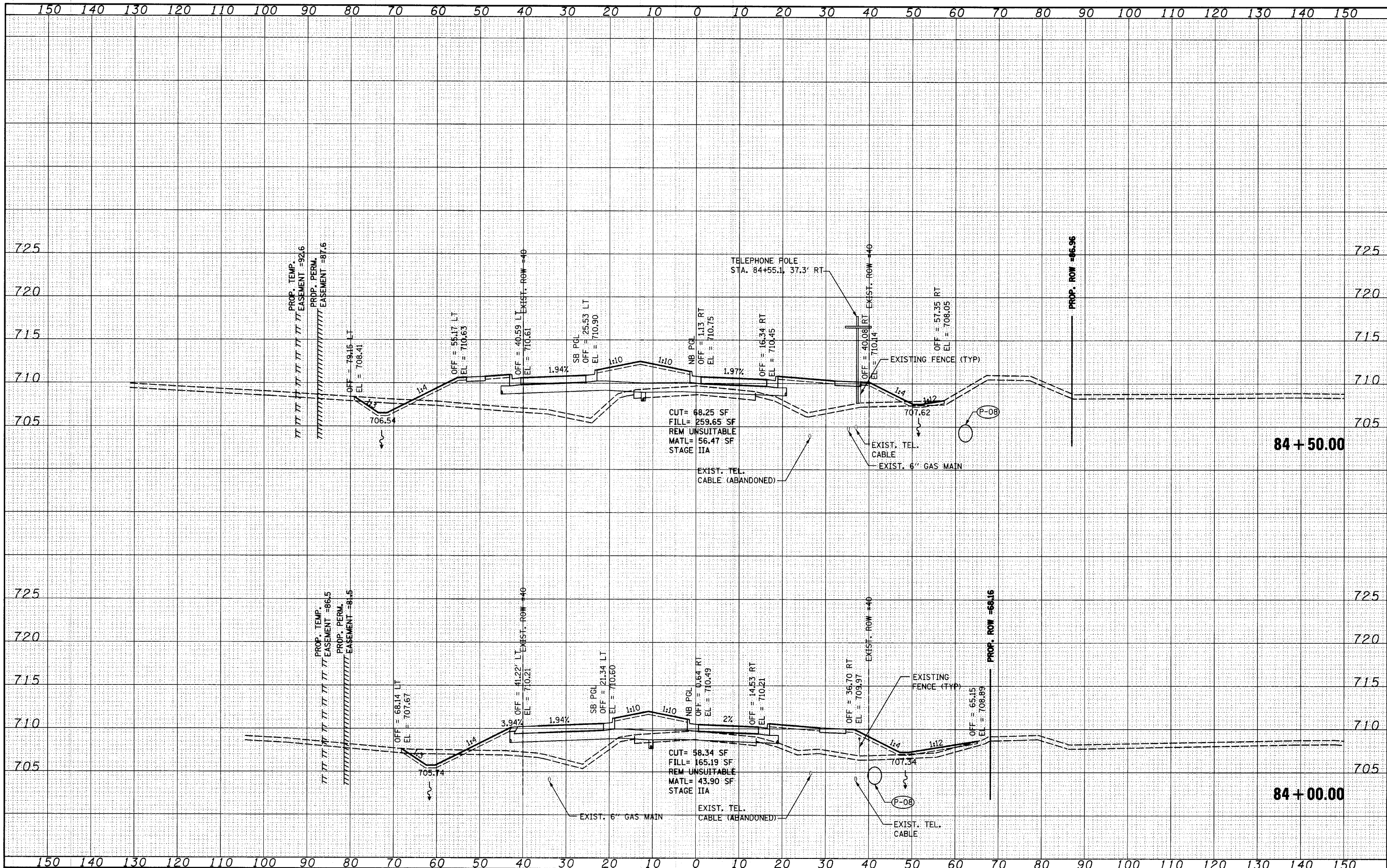
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	PLOT DATE = 4/1/2018	DRAWN - VLF	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					
		CHECKED - RKK	REVISED -							

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

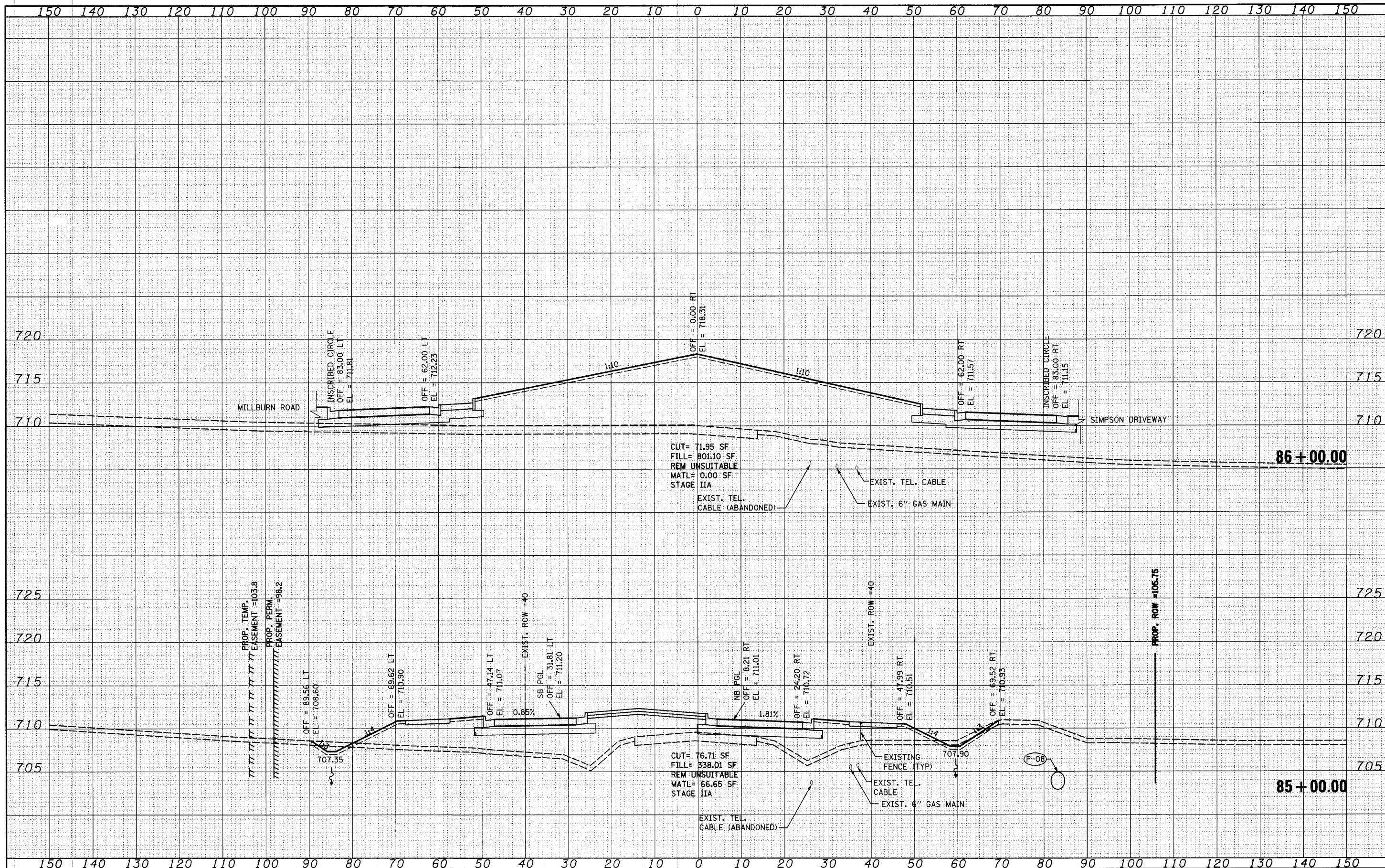
HUNT CLUB ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 84+00.00 TO STA. 84+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	126
CONTRACT NO. 63457				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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FILE NAME =
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 PLOT SCALE = 10.0000' / 1"
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

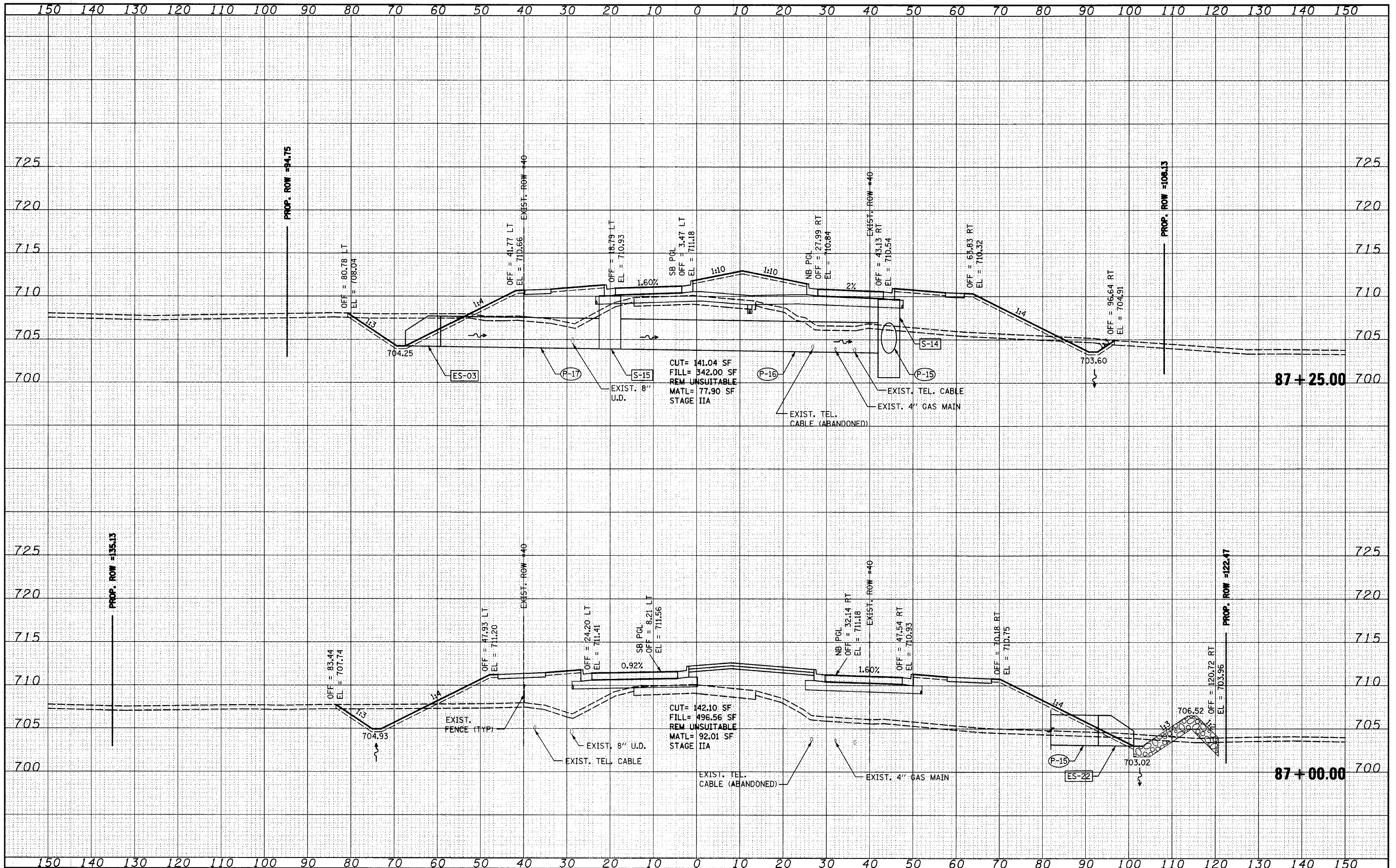
HUNT CLUB ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS | STA. 85+00.00 TO STA. 86+00.00

F.A. RTE. 2661	SECTION 02-00076-13-CH	COUNTY LAKE	TOTAL SHEETS 177	SHEET NO. 127
CONTRACT NO. 63457			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

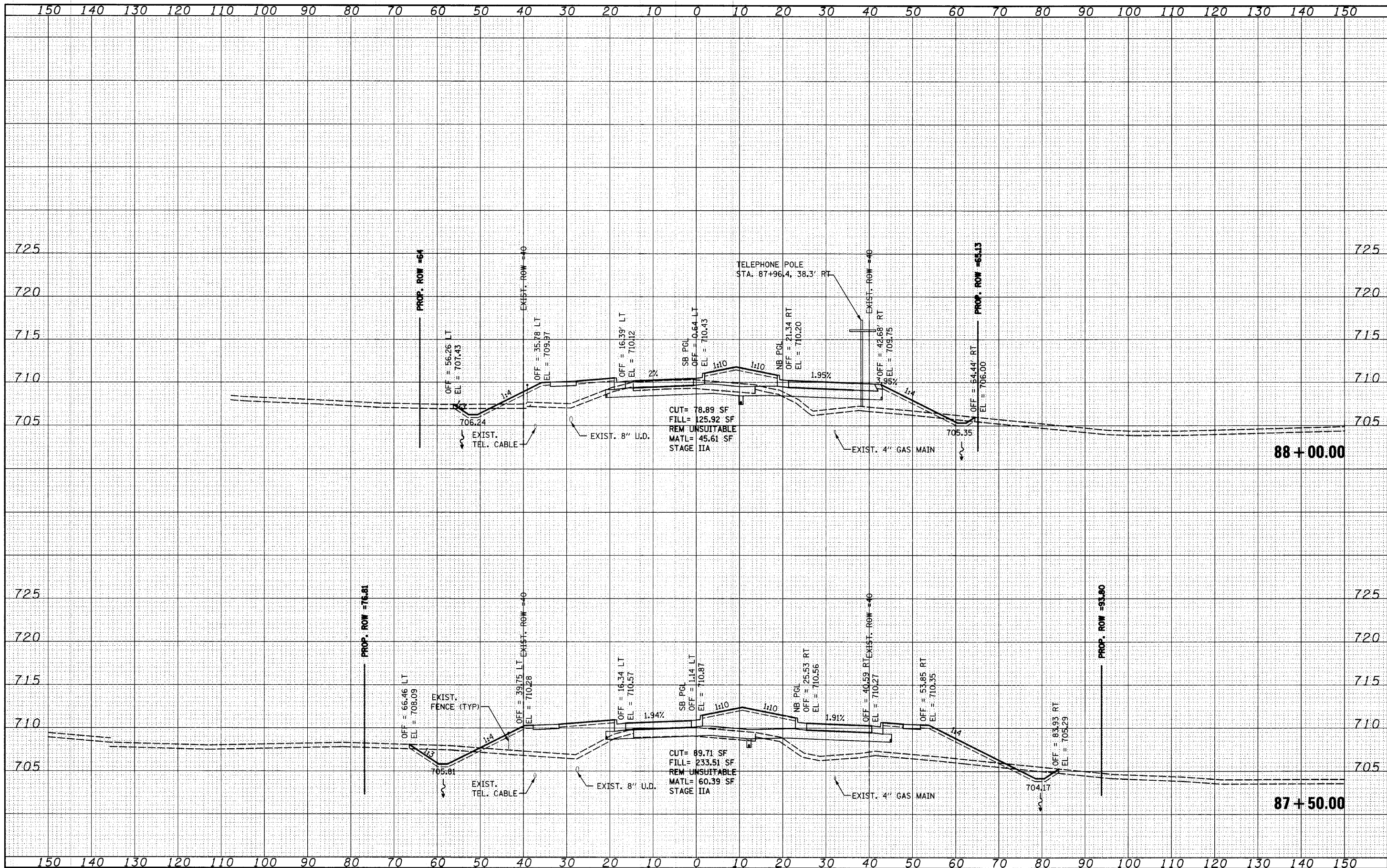
HUNT CLUB ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 87+00.00 TO STA. 87+25.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	128
CONTRACT NO. 63457				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

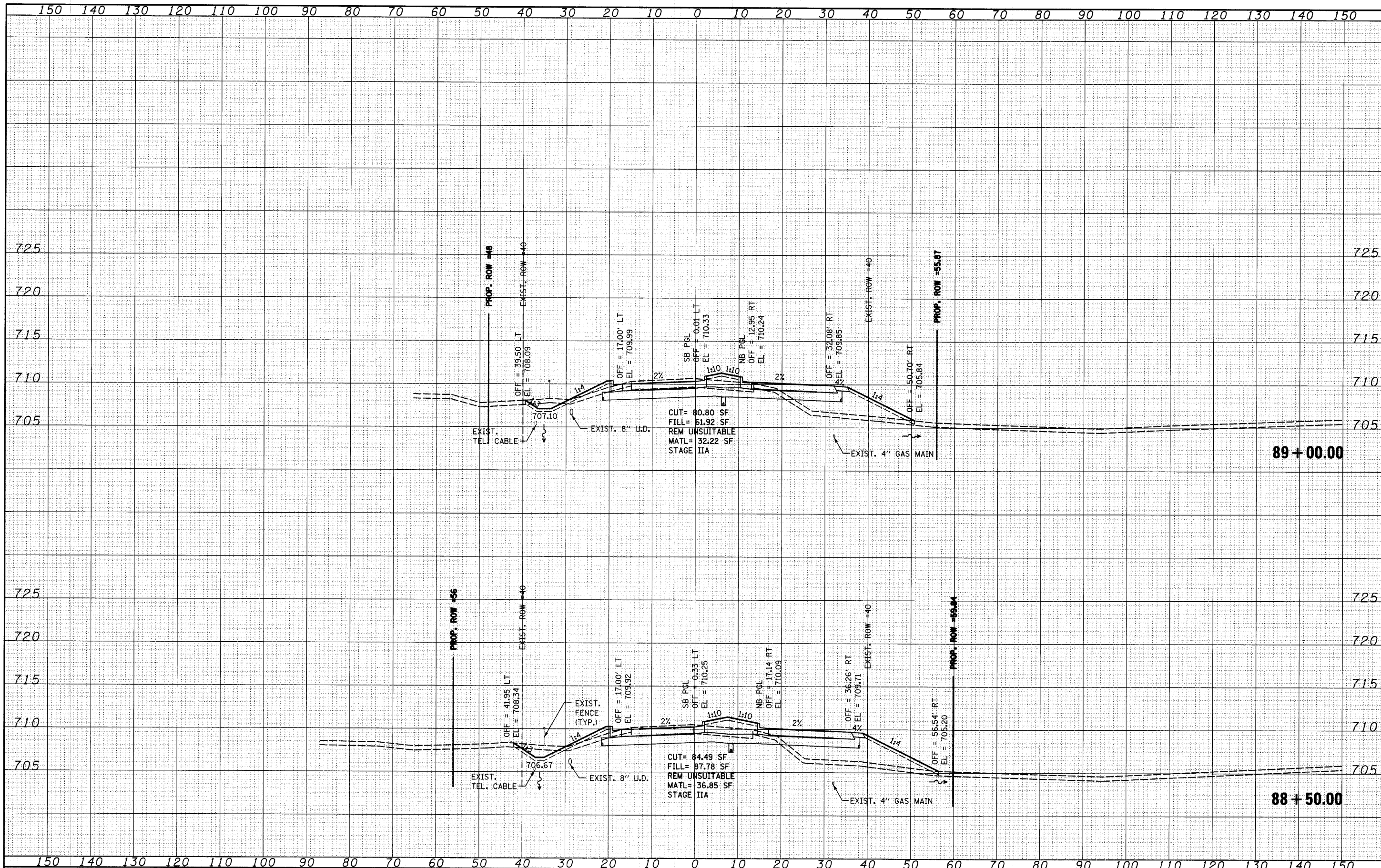
HUNT CLUB ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 87+50.00 TO STA. 88+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	129
CONTRACT NO. 63457				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

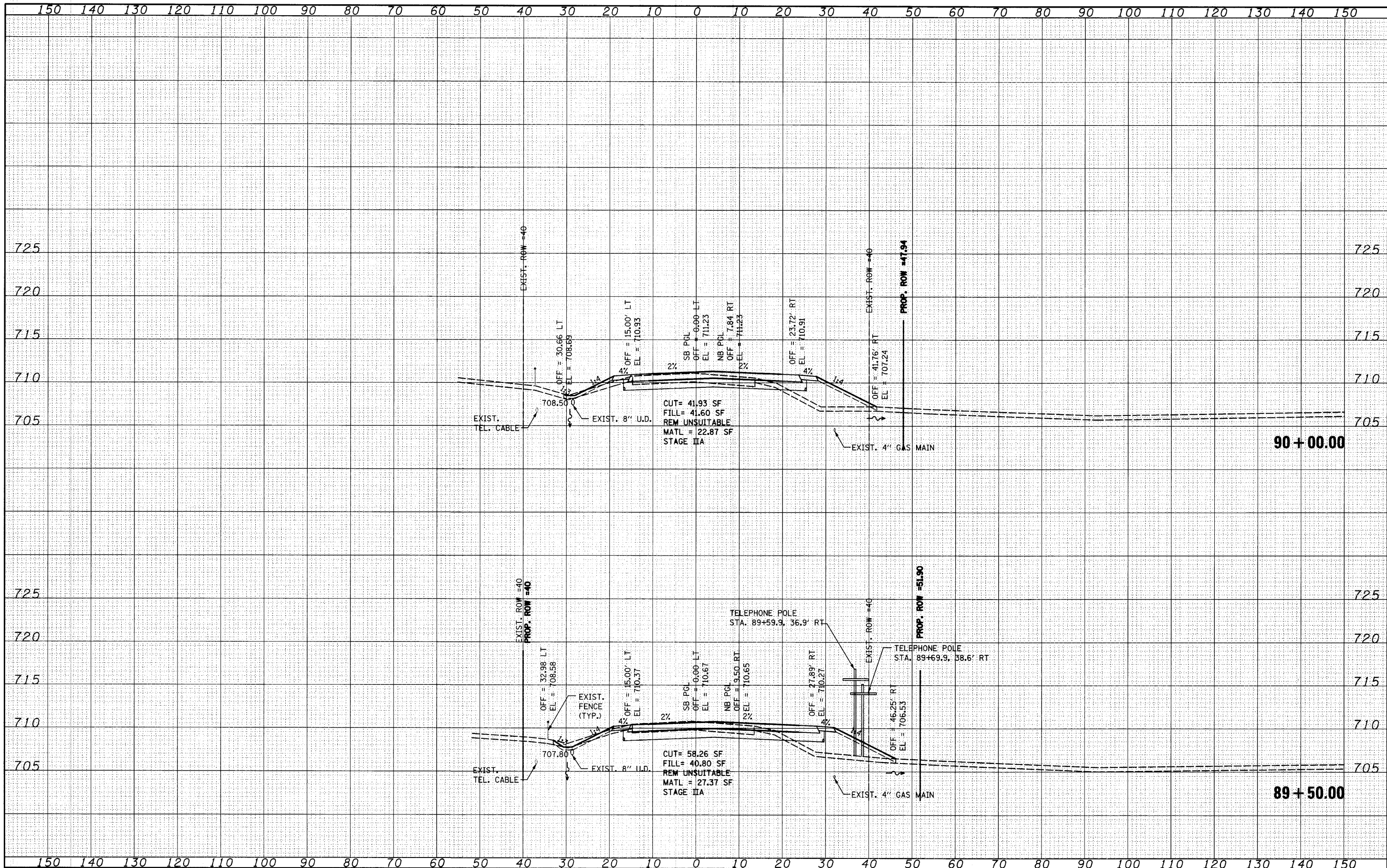
HUNT CLUB ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 88+50.00 TO STA. 89+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	130
CONTRACT NO. 63457				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

HUNT CLUB ROAD CROSS SECTIONS

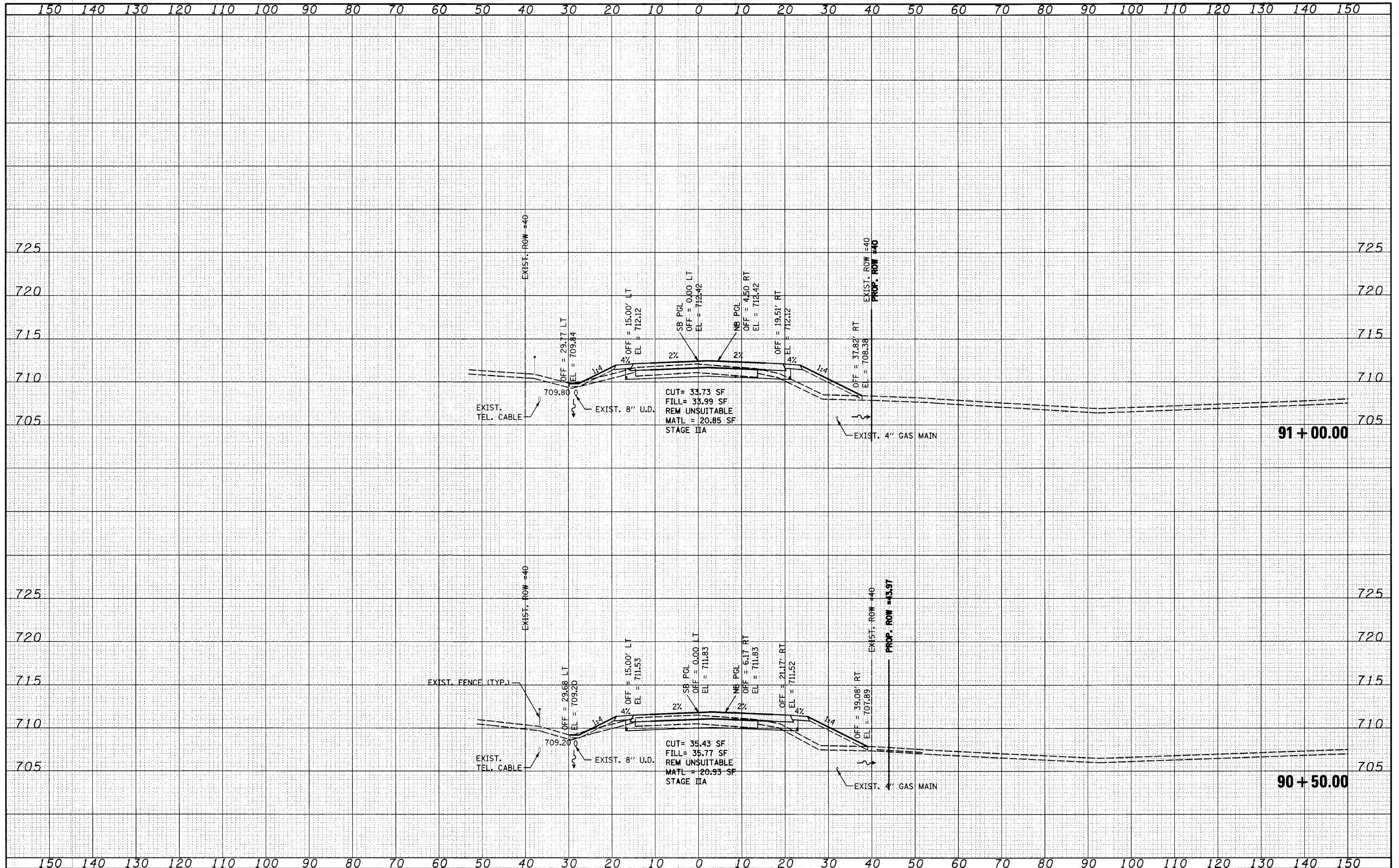
SCALE: SHEET NO. OF SHEETS STA. 89+50.00 TO STA. 90+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	131
CONTRACT NO. 63457				

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

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

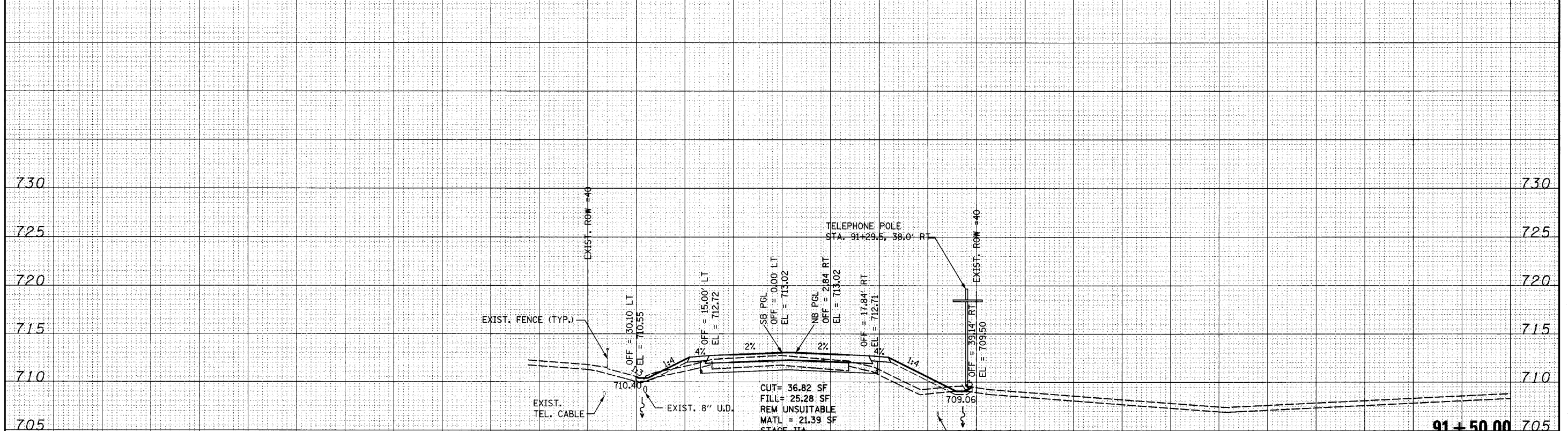
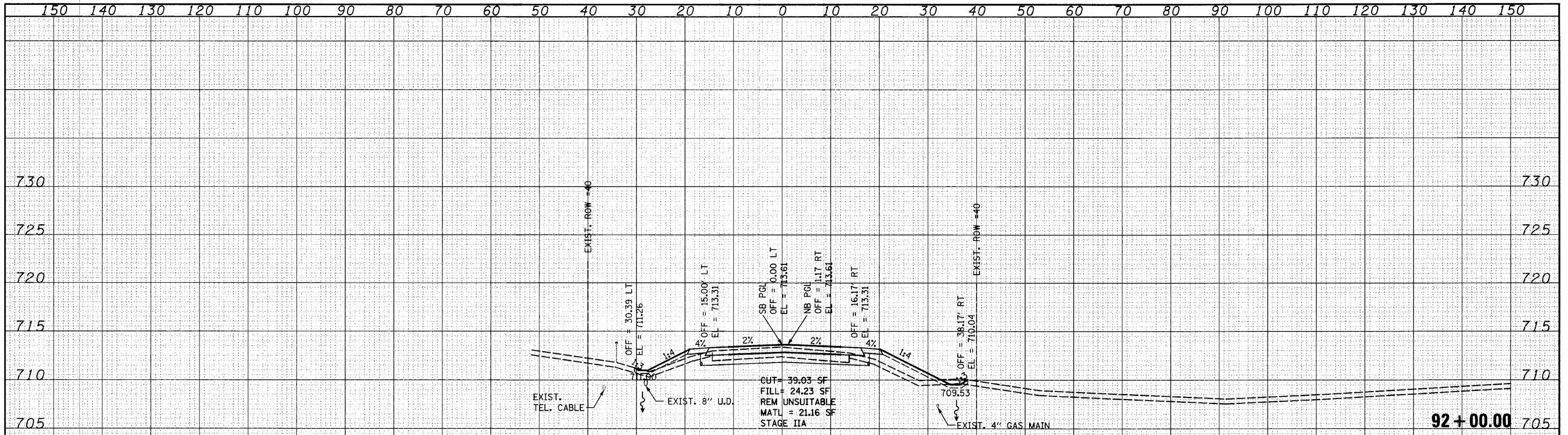
HUNT CLUB ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 90+50.00 TO STA. 91+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	132
CONTRACT NO. 63457				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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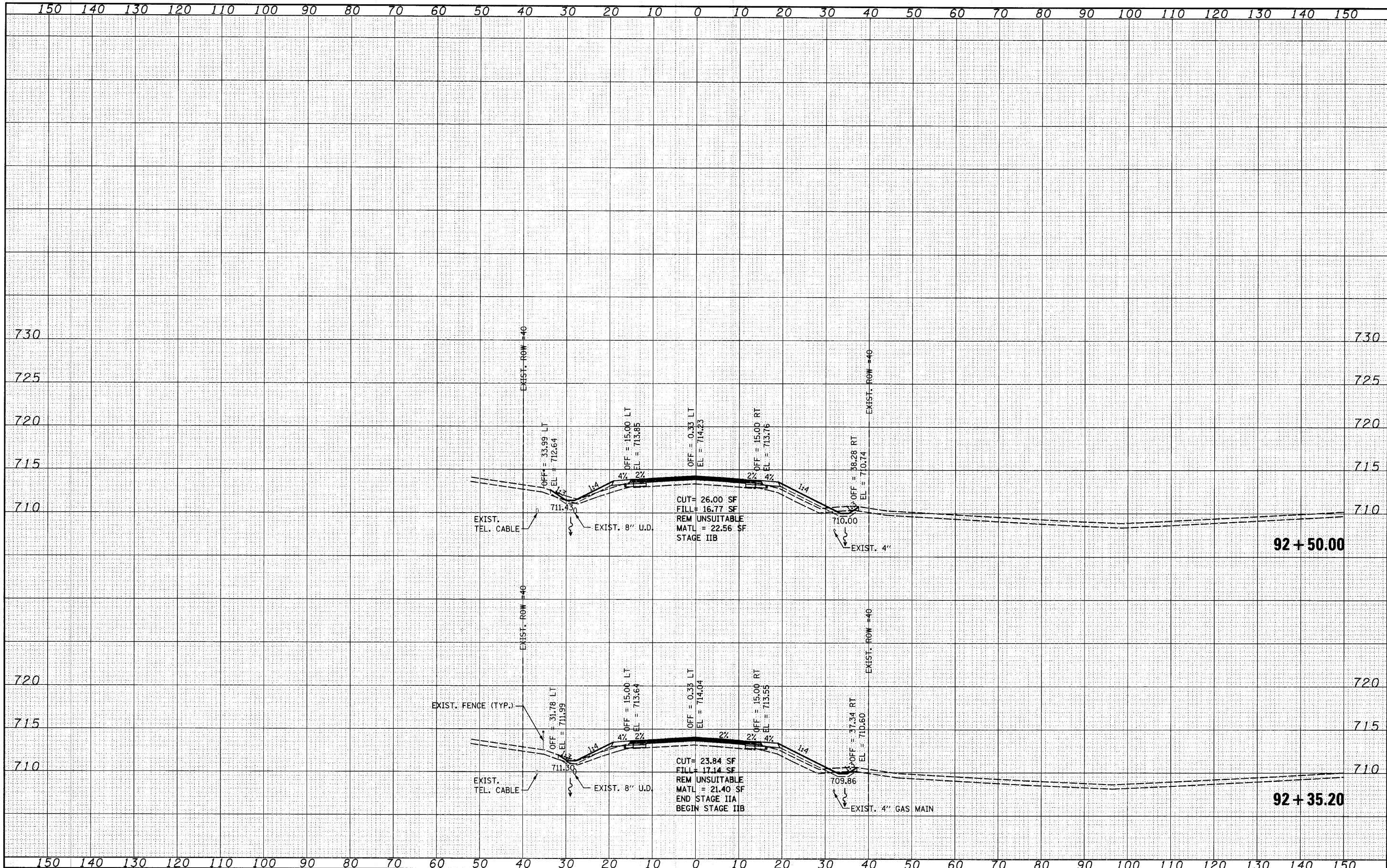
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FILE NAME =	USER NAME = sran	DESIGNED - MAG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HUNT CLUB ROAD CROSS SECTIONS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\\joi\1900-1999\1902\002\mcaros\Cross section\DI-ht-xaht-HCR.dgn	DI-ht-xaht-HCR.dgn	CHECKED - RKK	REVISED -			2661	02-00076-13-CH	LAKE	177	133
PLOT SCALE = 10.0000' / IN.		DRAWN - VLF	REVISED -			SCALE: SHEET NO. OF SHEETS STA. 91+50.00 TO STA. 92+00.00		CONTRACT NO. 63457		
PLOT DATE = 4/1/2012		CHECKED - RKK	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

HUNT CLUB ROAD CROSS SECTIONS

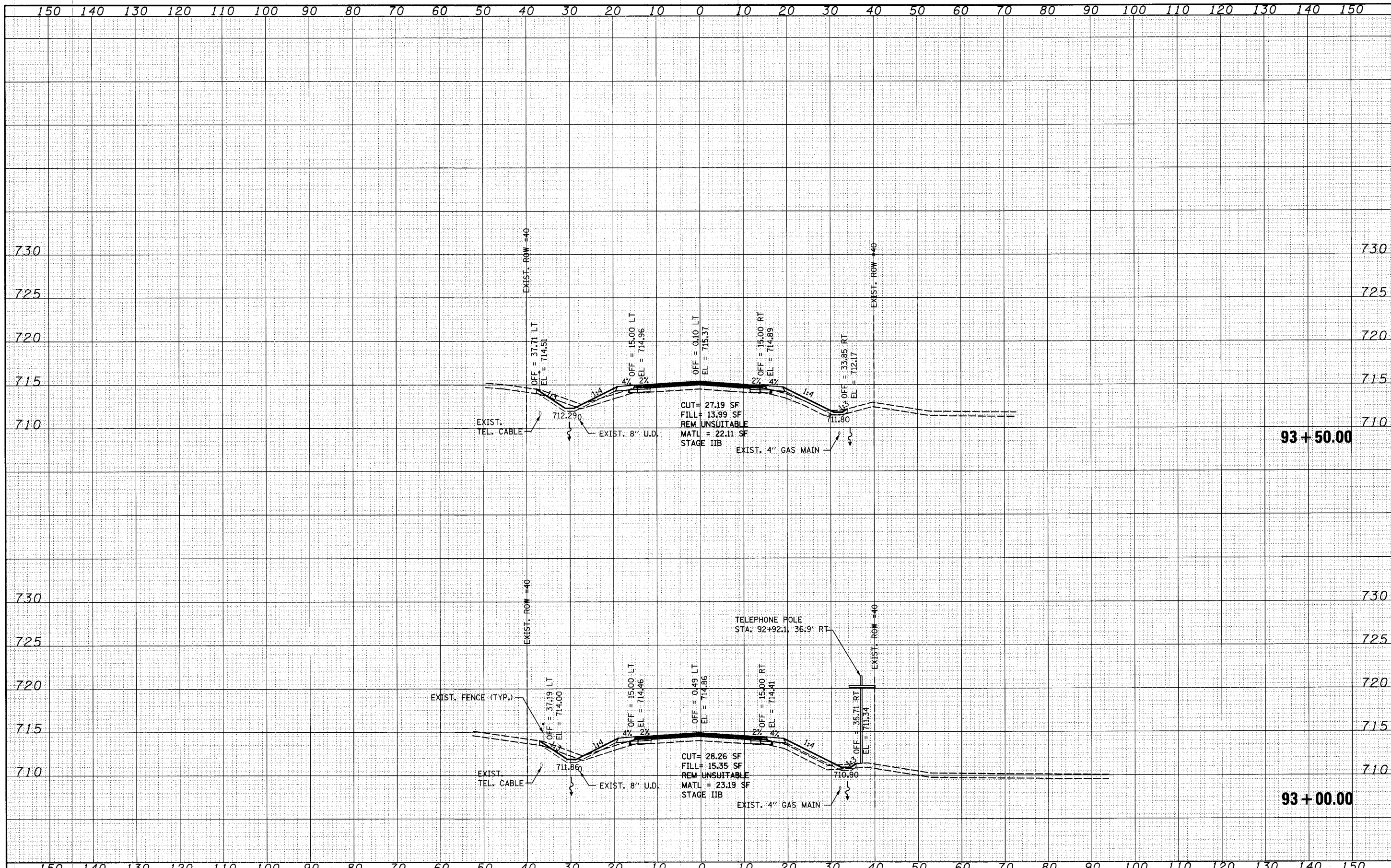
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	134
CONTRACT NO. 63457				

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

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FILE NAME =
 USER NAME = saron
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 PLOT SCALE = 10.0000' / IN.
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

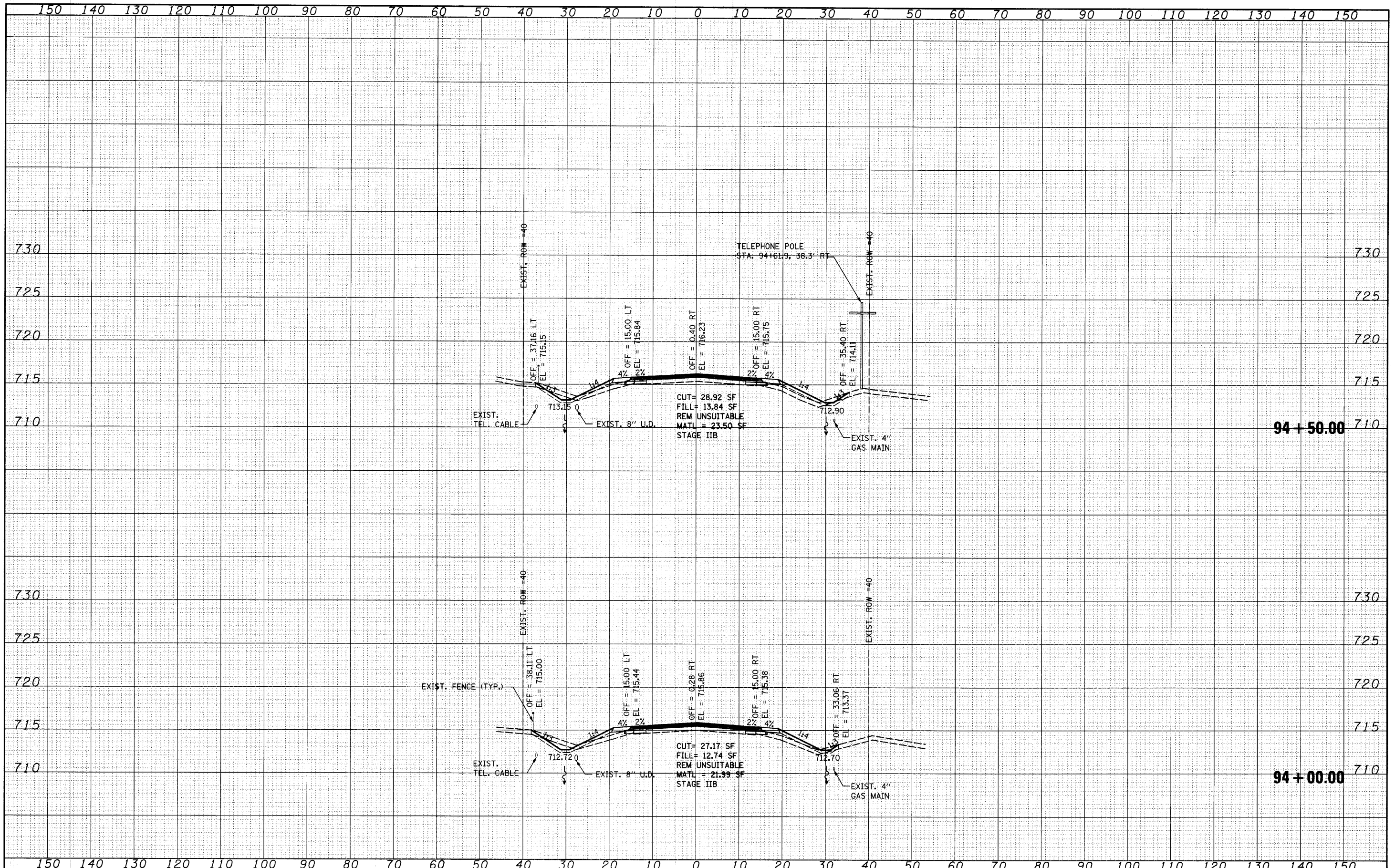
HUNT CLUB ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 93+00.00 TO STA. 93+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	135
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63457	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

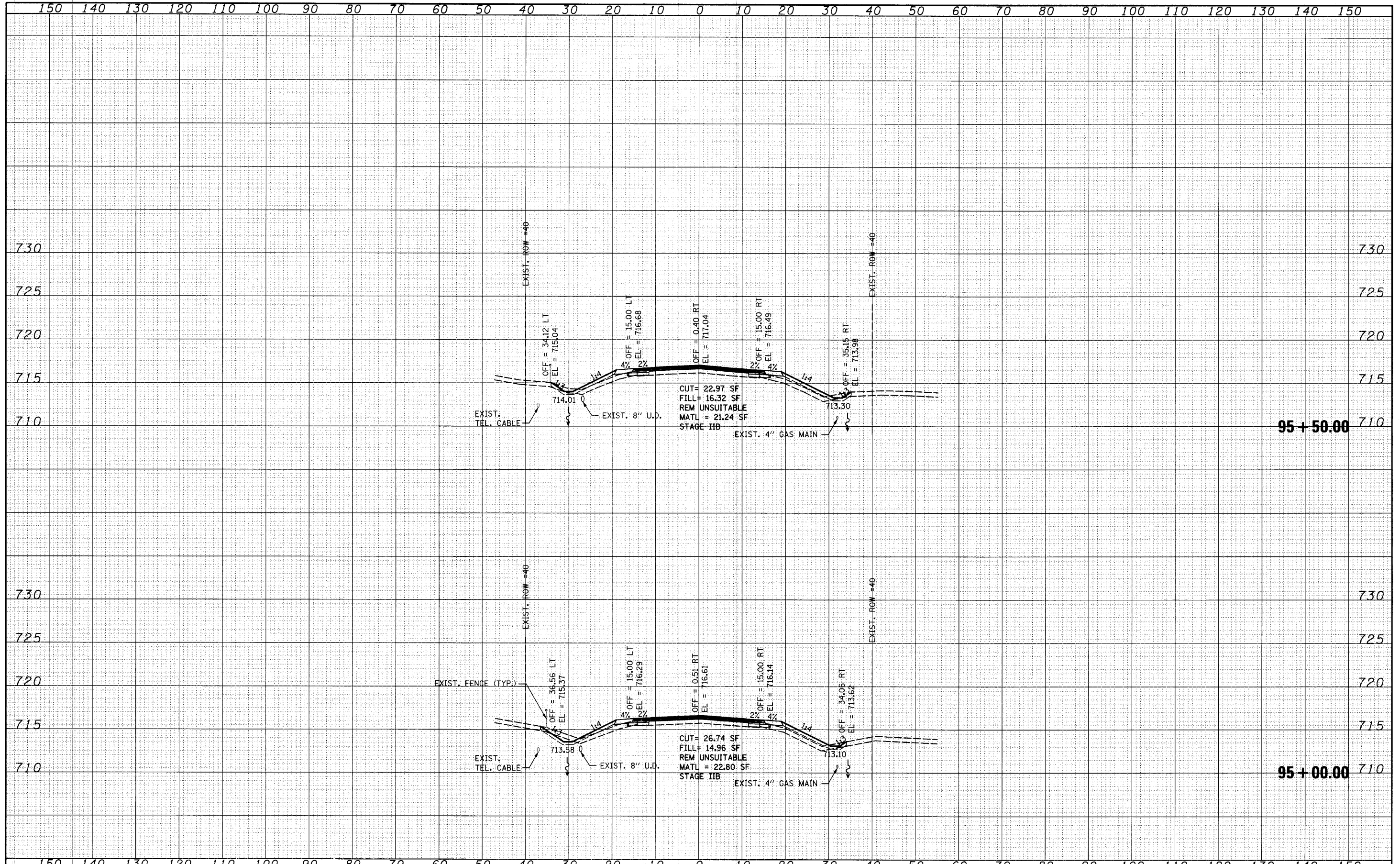
HUNT CLUB ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 94+00.00 TO STA. 94+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	136
CONTRACT NO. 63457				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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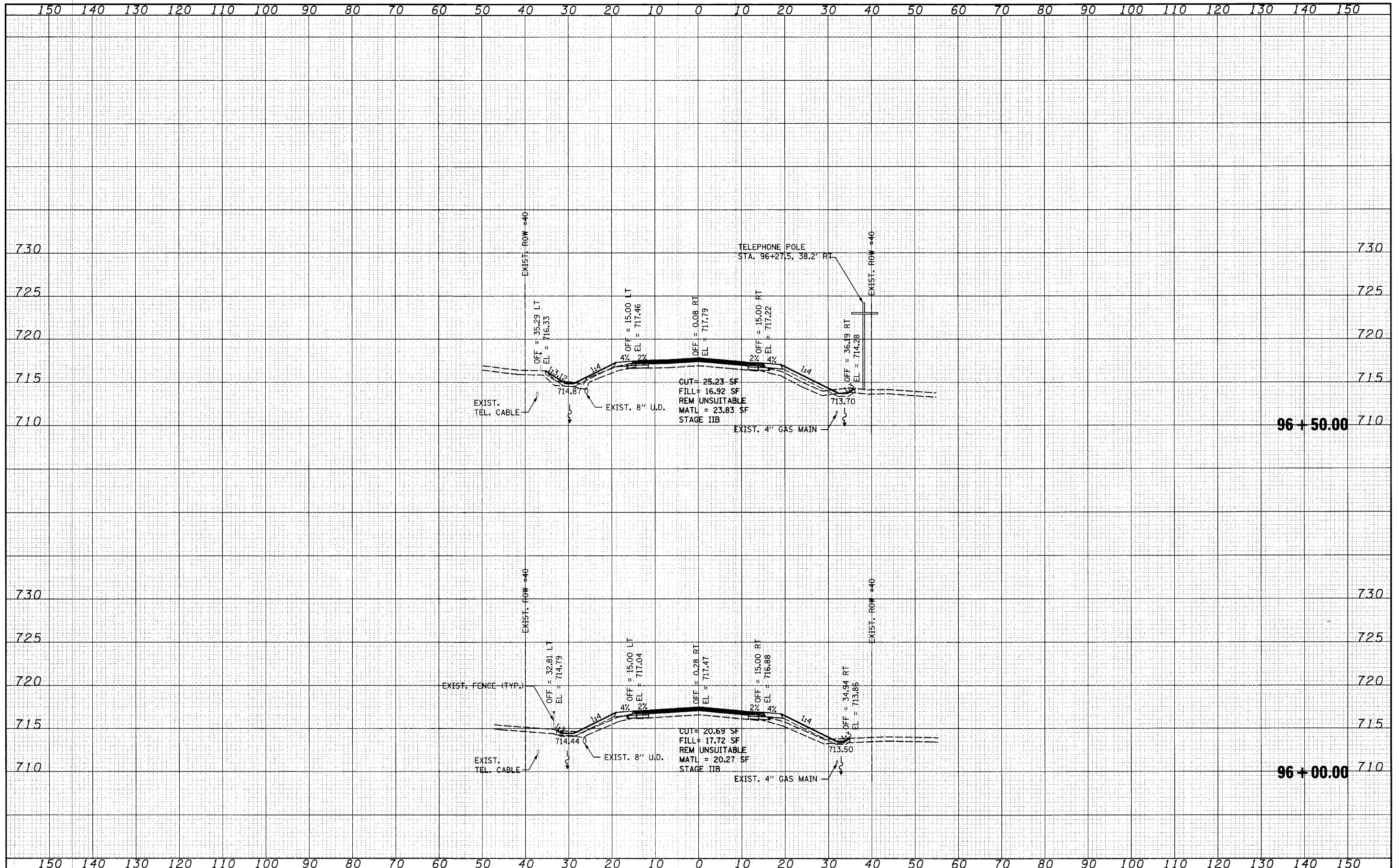
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si:\joi\1900-1999\1902\002\micro\cross section\DI-sh-t-xsh-t-HCR.dgn	NOTED - RKK	REVISED -	2661			02-00076-13-CH	LAKE	177	137	
PLOT SCALE = 10.0000' / IN.	DRAWN - VLF	REVISED -	CONTRACT NO. 63457							
PLOT DATE = 4/1/2012	CHECKED - RKK	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
SCALE: SHEET NO. OF SHEETS STA. 95+00.00 TO STA. 95+50.00										

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FILE NAME =
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

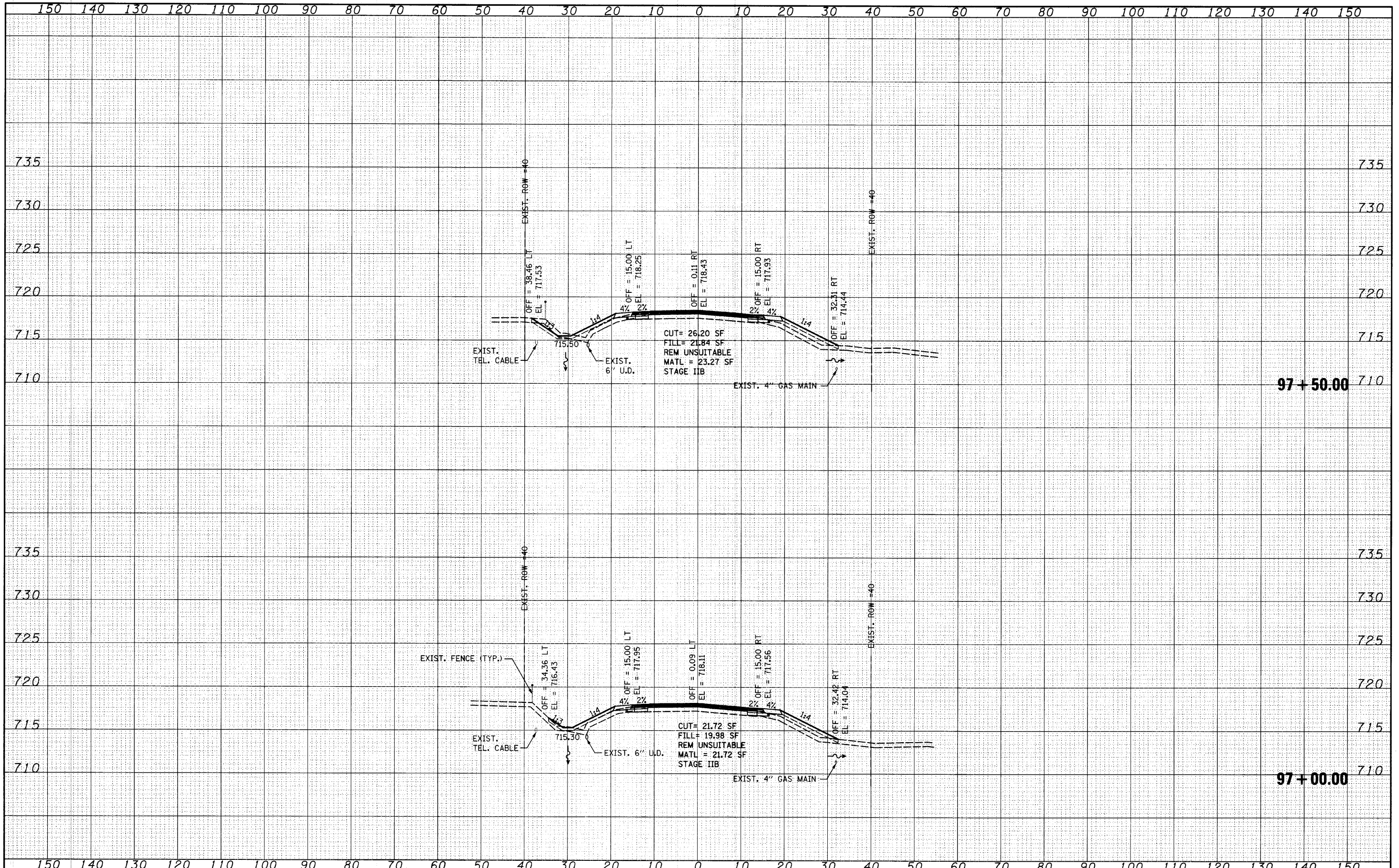
HUNT CLUB ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 96+00.00 TO STA. 96+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	138
CONTRACT NO. 63457			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

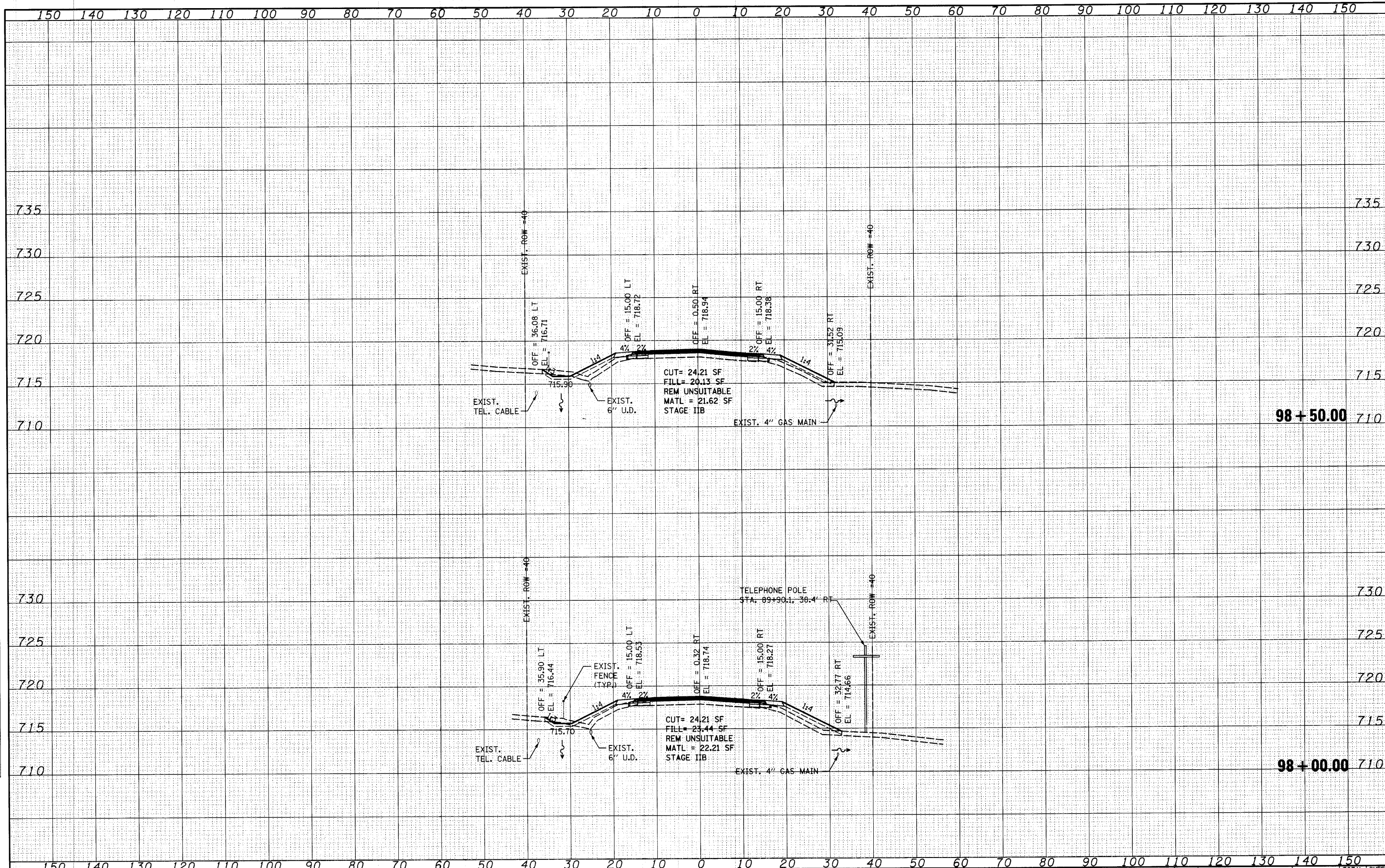
HUNT CLUB ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 97+00.00 TO STA. 97+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	139
CONTRACT NO. 63457				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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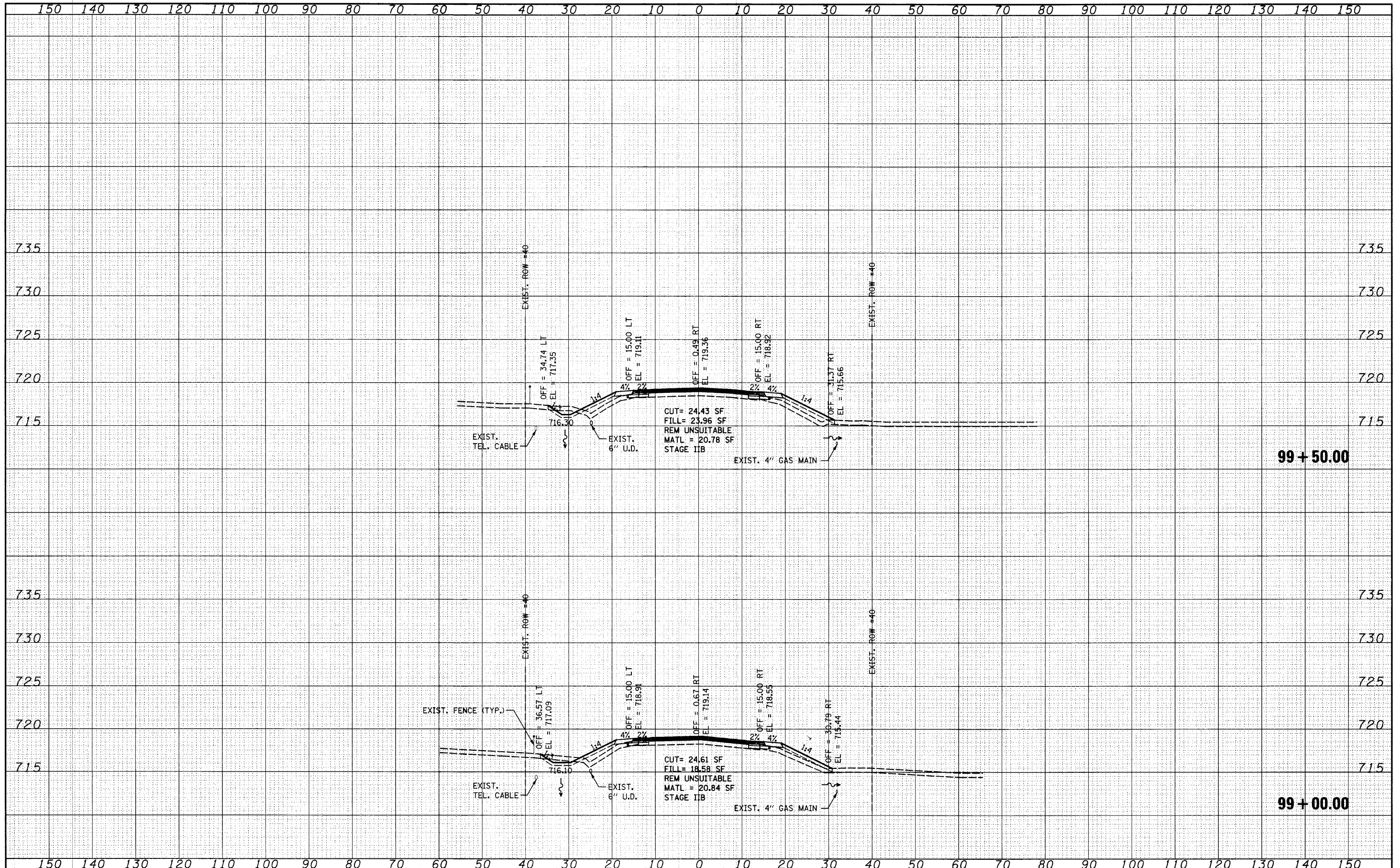
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st:\joi\1988-1999\1982\002\micro\cross sections\DI-ah1-xasht-HCR.dgn	CHECKED - RKK	REVISED -	2661			02-00076-13-CH	LAKE	177	140	
PLOT SCALE = 10.0000' / IN.	DRAWN - VLF	REVISED -	CONTRACT NO. 63457							
PLOT DATE = 4/1/2010	CHECKED - RKK	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
SCALE: SHEET NO. OF SHEETS STA. 98+00.00 TO STA. 98+50.00										

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

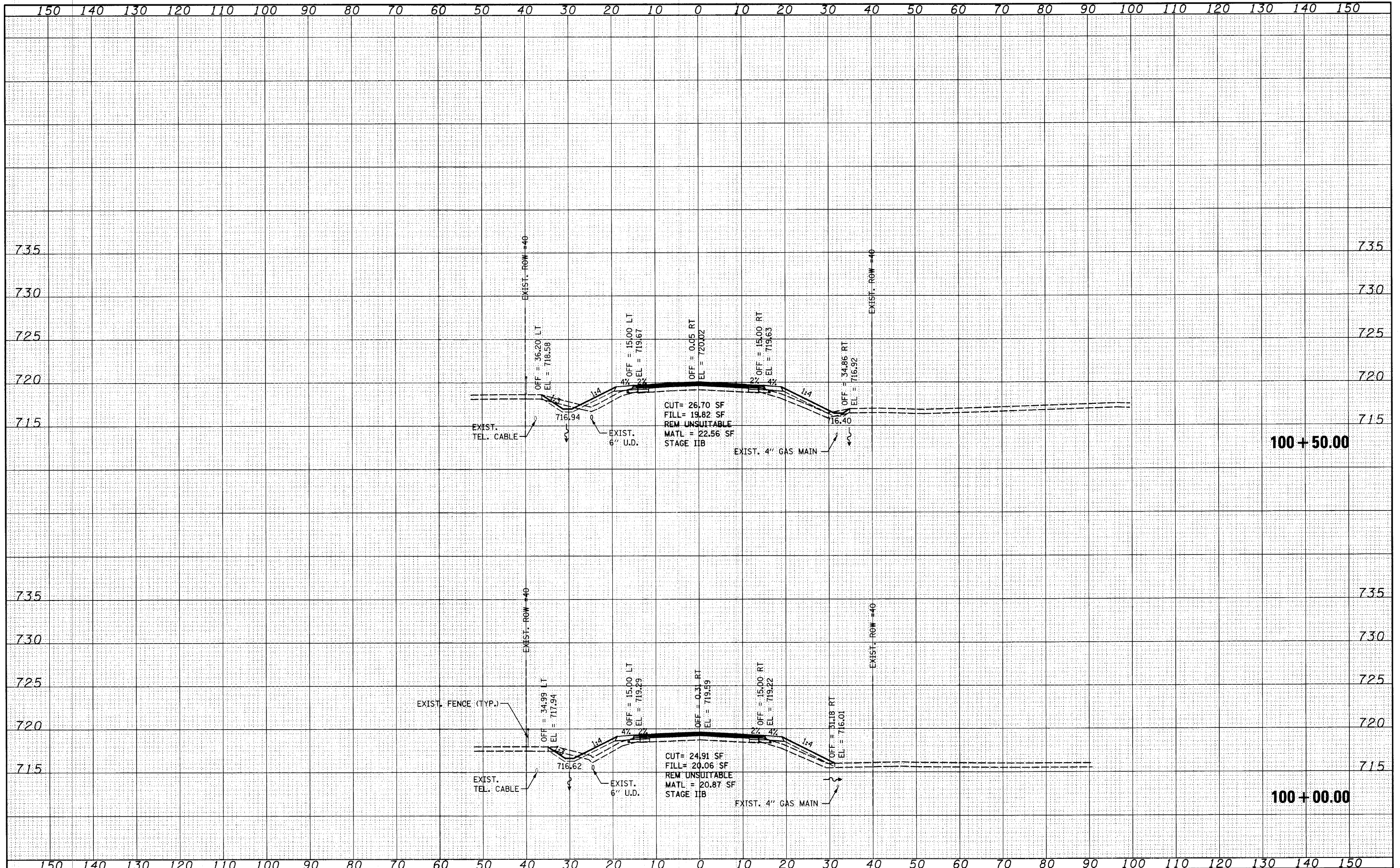
HUNT CLUB ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 99+00.00 TO STA. 99+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	141
CONTRACT NO. 63457				

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 PLOT DATE = 4/1/2013

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

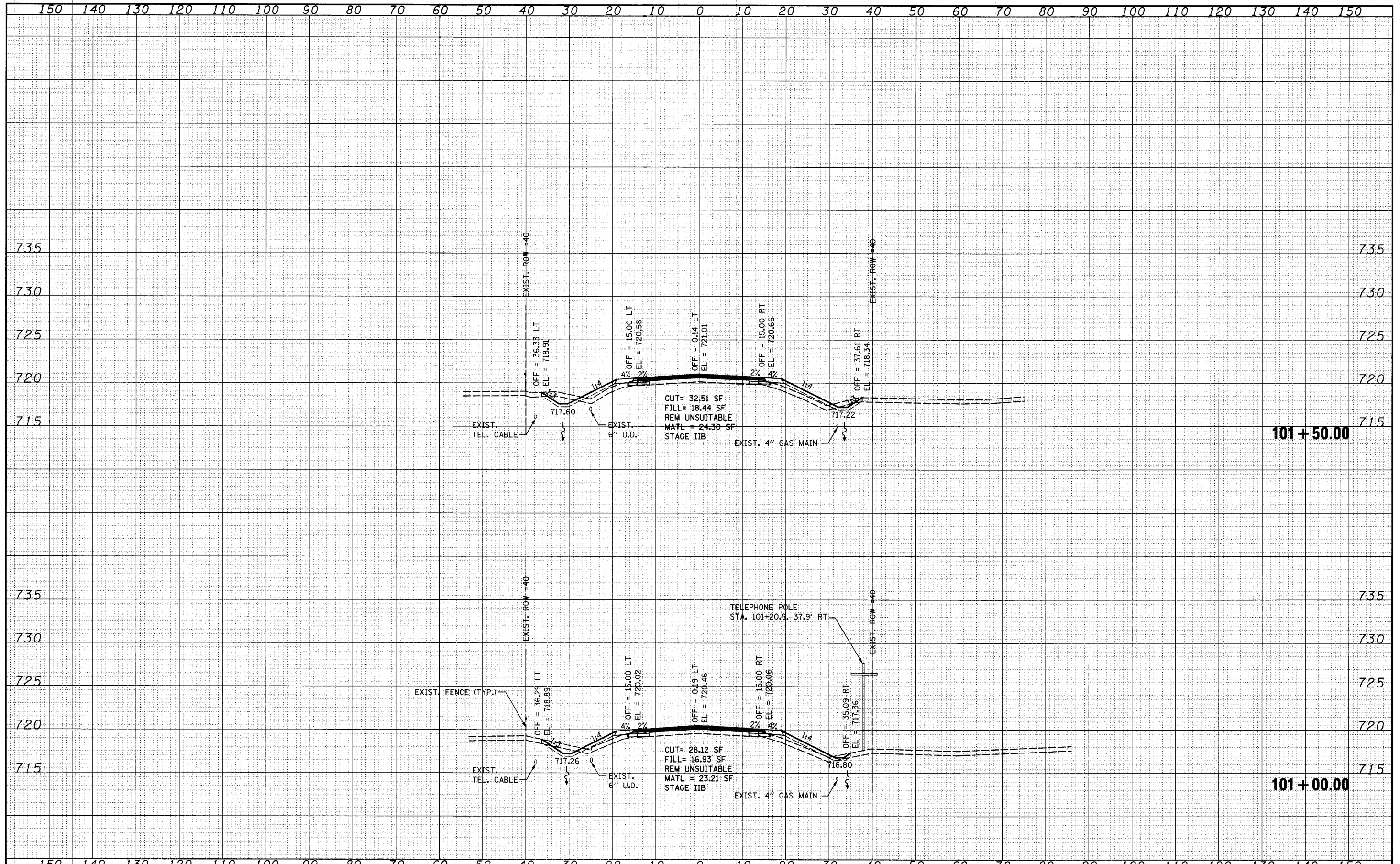
HUNT CLUB ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 100+00.00 TO STA. 100+50.00

F.A. RTE. 2661	SECTION 02-00076-13-CH	COUNTY LAKE	TOTAL SHEETS 177	SHEET NO. 142
CONTRACT NO. 63457			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

HUNT CLUB ROAD CROSS SECTIONS

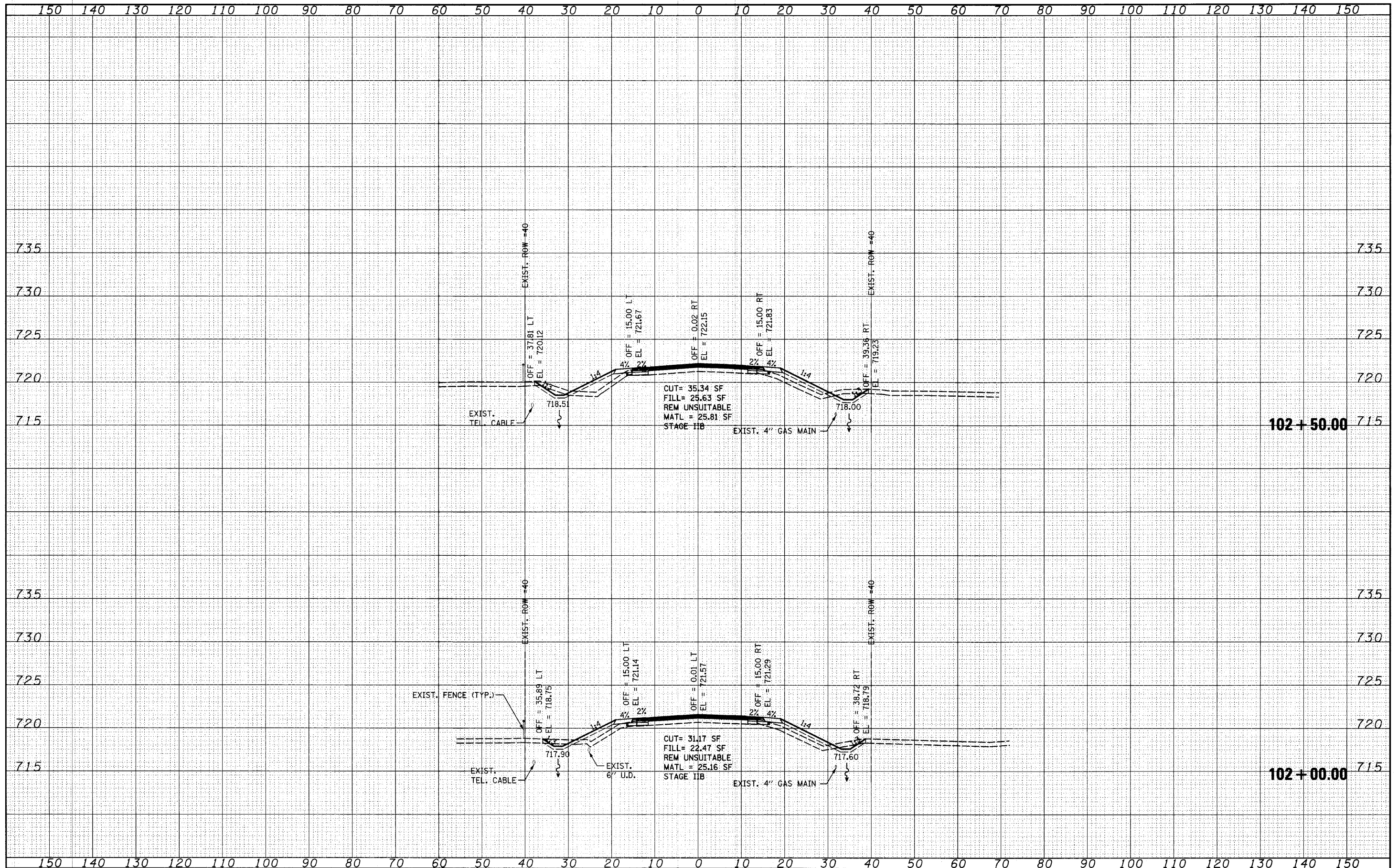
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	143
CONTRACT NO. 63457				

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

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PLOT DATE =	4/1/2010	CHECKED -	RKK	REVISED -	

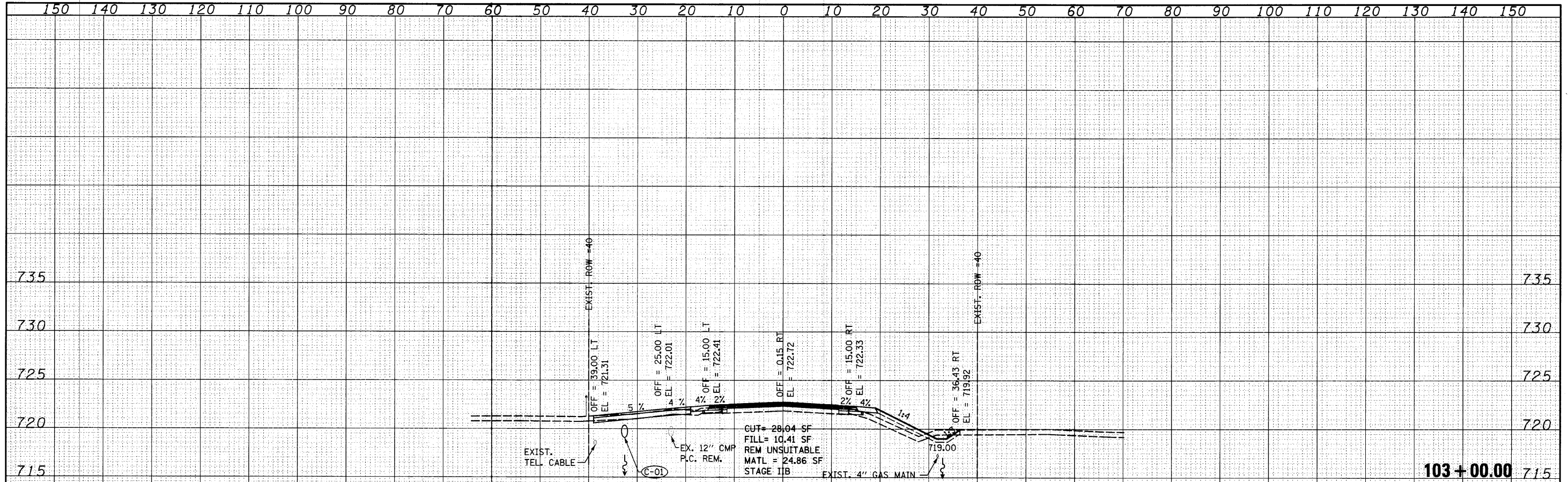
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

HUNT CLUB ROAD CROSS SECTIONS

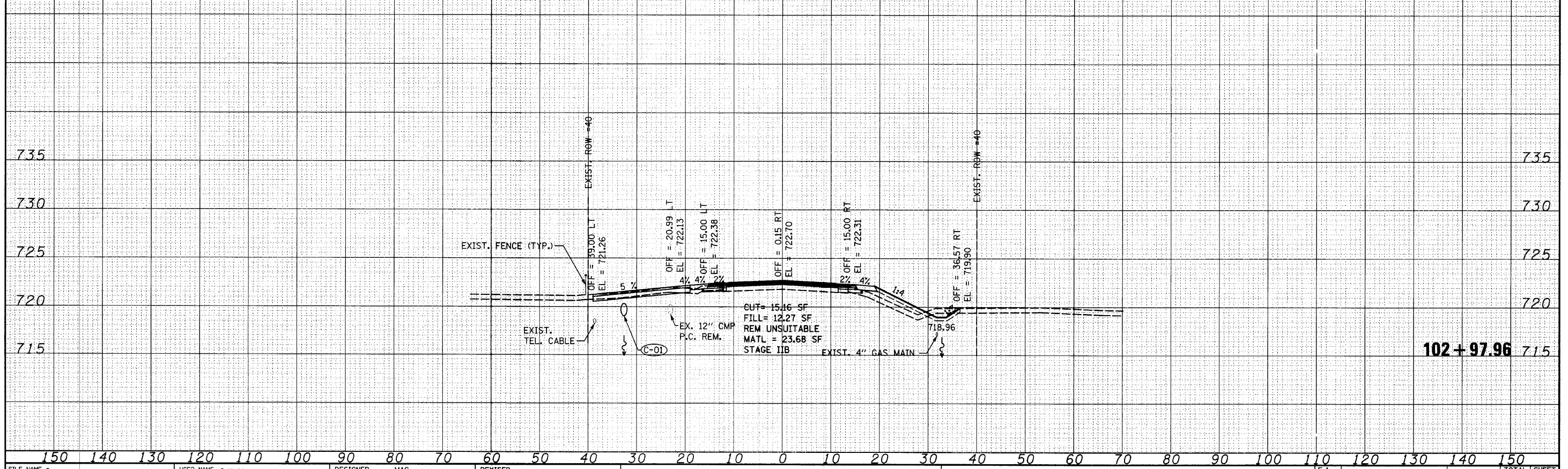
SCALE: SHEET NO. OF SHEETS STA. 102+00.00 TO STA. 102+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	144
CONTRACT NO. 63457				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
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DATE	
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ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME =
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CHECKED -	RKK
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

HUNT CLUB ROAD CROSS SECTIONS

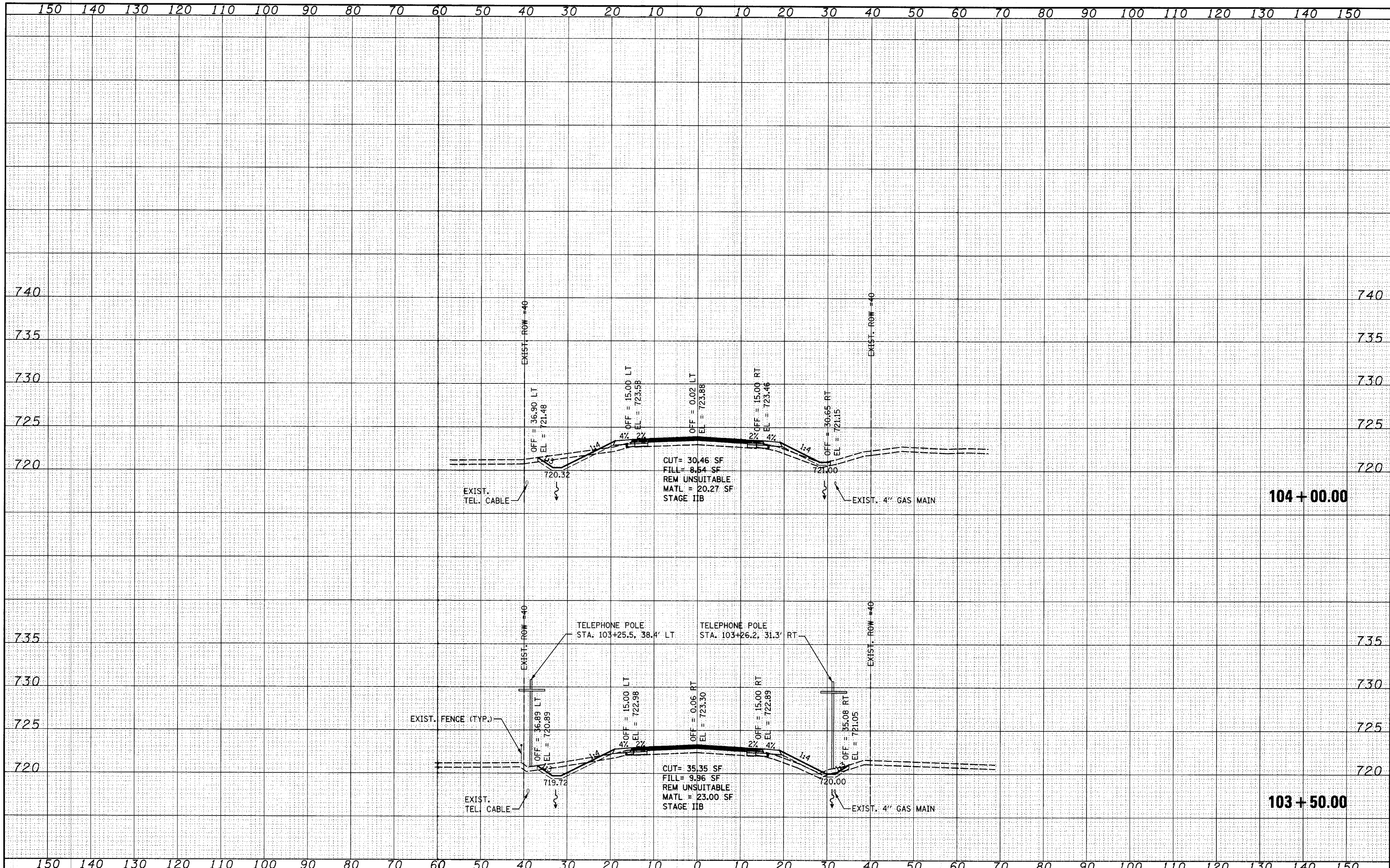
SCALE: SHEET NO. OF SHEETS | STA. 102+97.96 TO STA. 103+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	145
CONTRACT NO. 63457				

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

DATE	
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FILE NAME =
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USER NAME =	mag	DESIGNED -	MAG	REVISED -	
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PLOT SCALE = 10.0000' / IN.		DRAWN -	VLF	REVISED -	
PLOT DATE = 4/1/2010		CHECKED -	RKK	REVISED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

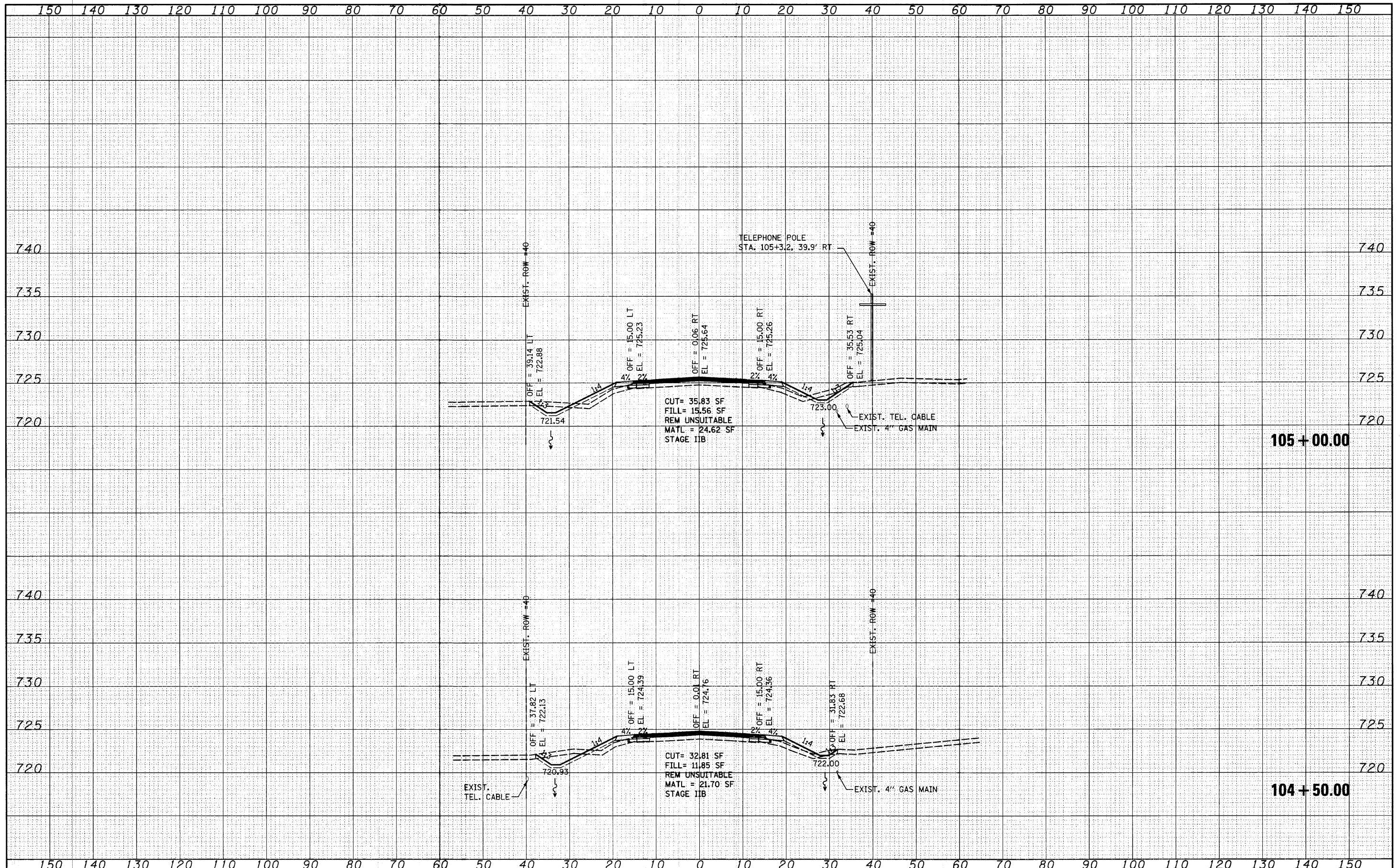
HUNT CLUB ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 103+50.00 TO STA. 104+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	146
CONTRACT NO. 63457				

DATE	
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FILE NAME =
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 DESIGNED - MAG
 CHECKED - RKK
 PLOT SCALE = 10.0000' / IN.
 DRAWN - VLF
 PLOT DATE = 4/1/2012
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

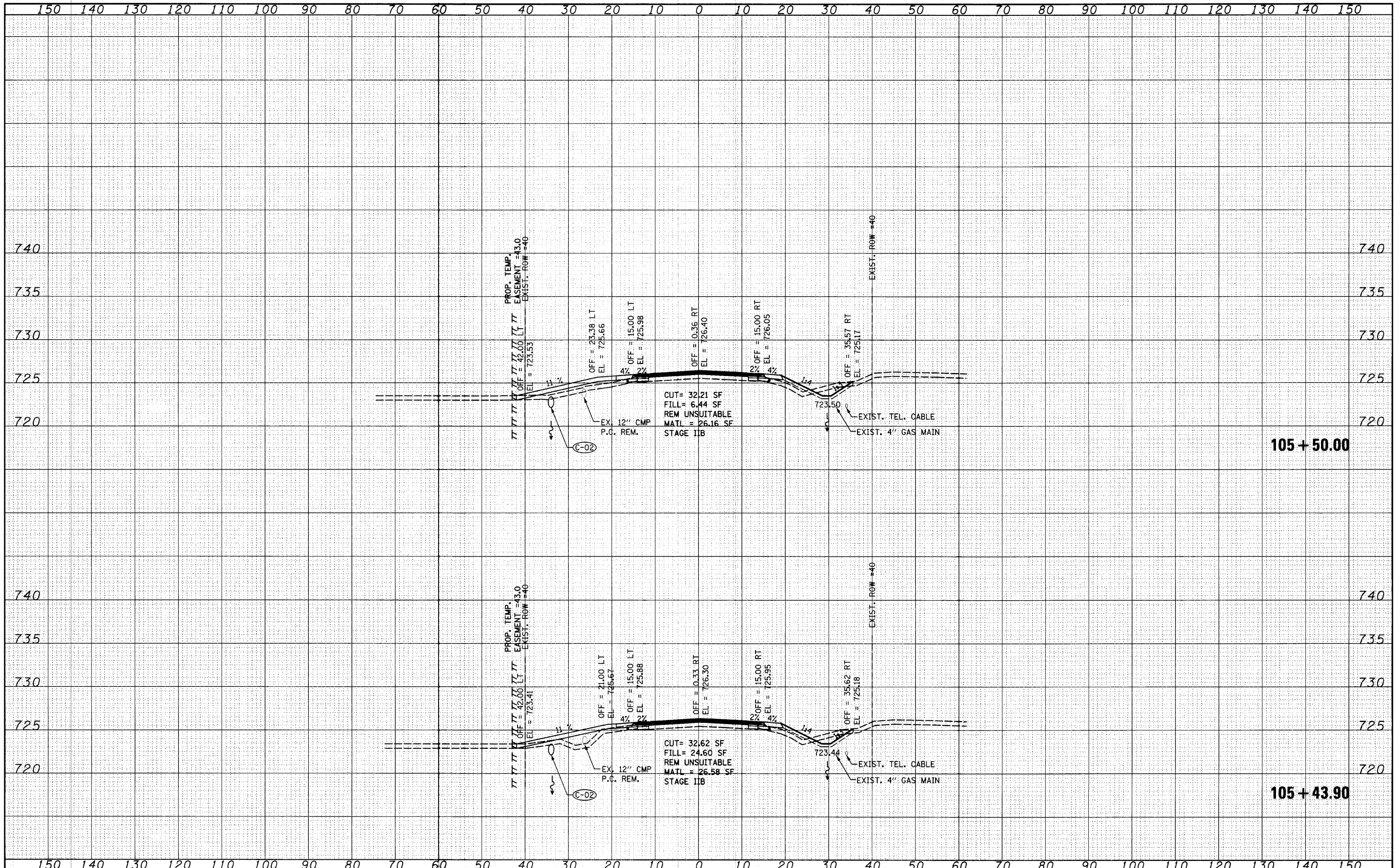
HUNT CLUB ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 104+50.00 TO STA. 105+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	147
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63457	

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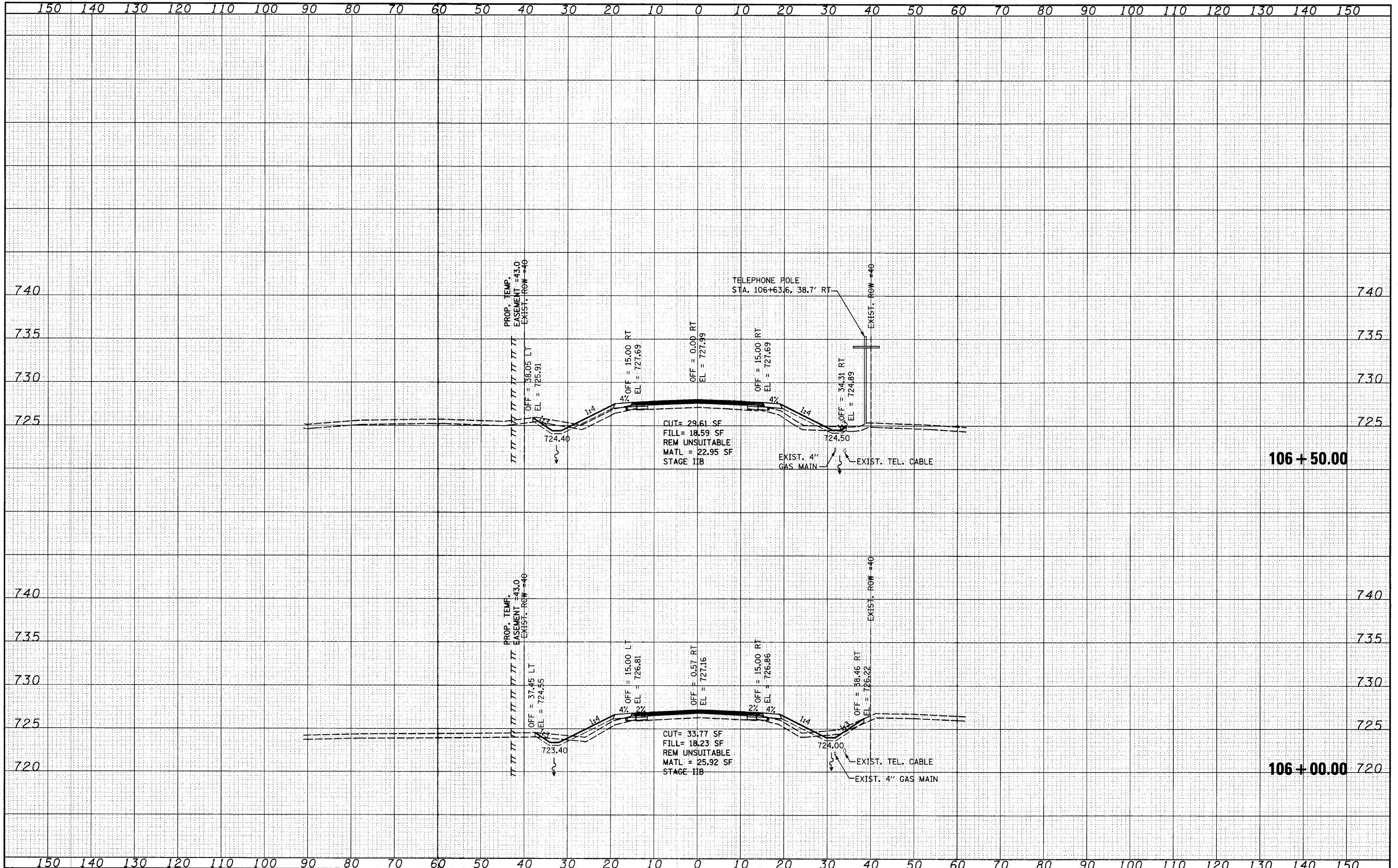
FILE NAME =	USER NAME = saron	DESIGNED - MAG	REVISED -	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
si\joi\1988-1999\1982\082\mcoros\Cross sections\DI-shit-xshht-HCR.dgn		CHECKED - RKK	REVISED -	2661	02-00076-13-CH	LAKE	177	148
PLOT SCALE = 10.0000' / 1"		DRAWN - VLF	REVISED -	SCALE: SHEET NO. OF SHEETS STA. 105+43.90 TO STA. 105+50.00		CONTRACT NO. 63457		
PLOT DATE = 4/1/2012		CHECKED - RKK	REVISED -	FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

HUNT CLUB ROAD CROSS SECTIONS

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FILE NAME =
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USER NAME = sarran	DESIGNED - MAG	REVISED -
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PLOT SCALE = 10.0000' / IN.	DRAWN - VLF	REVISED -
PLOT DATE = 4/1/2010	CHECKED - RKK	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

HUNT CLUB ROAD CROSS SECTIONS

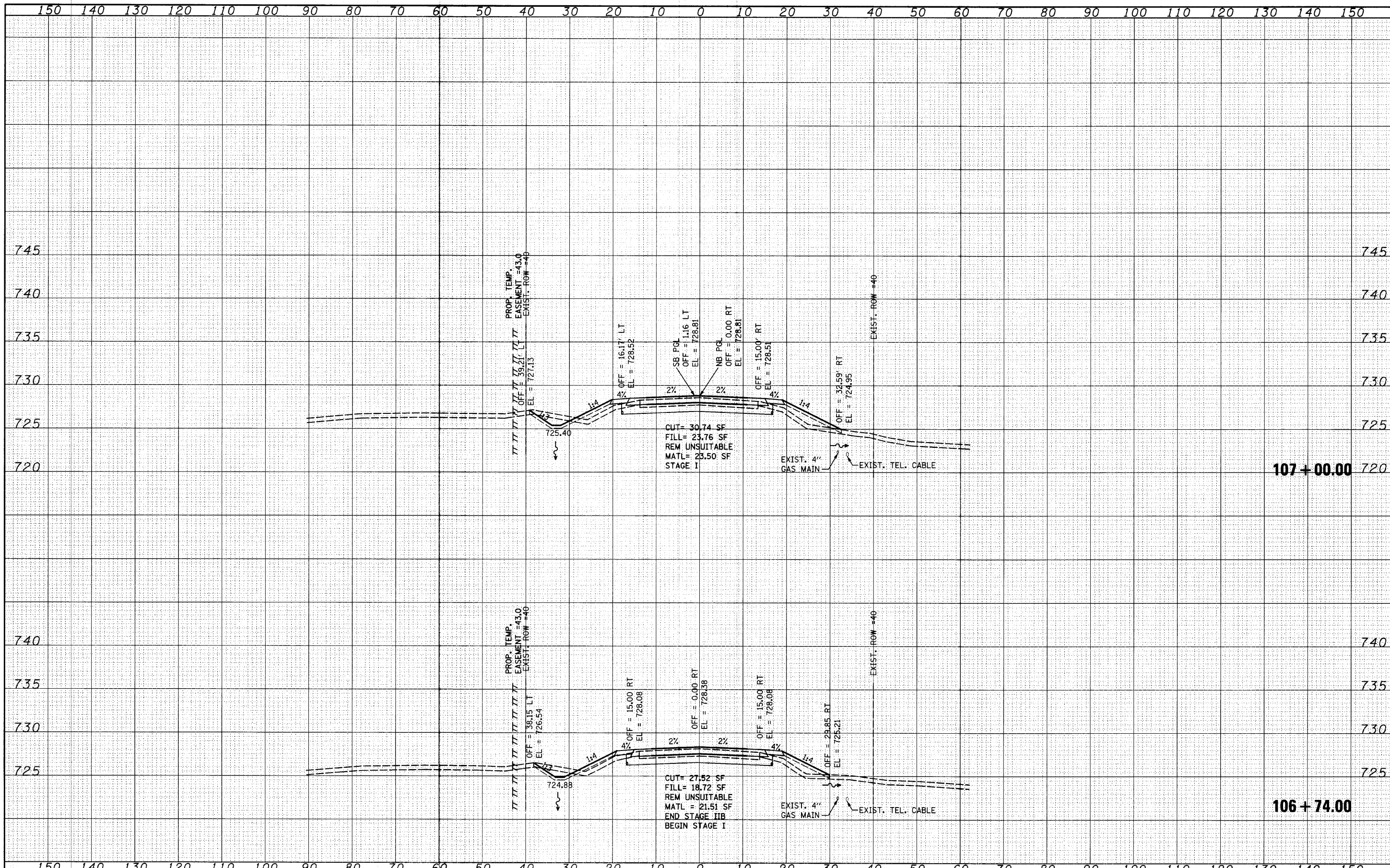
SCALE: SHEET NO. OF SHEETS STA. 106+00.00 TO STA. 106+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	149
CONTRACT NO. 63457				

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

DATE	
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FILE NAME =
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DI-shr-xssht-HCR.dgn	CHECKED - RKK	REVISED -
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PLOT DATE = 4/1/2012	CHECKED - RKK	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

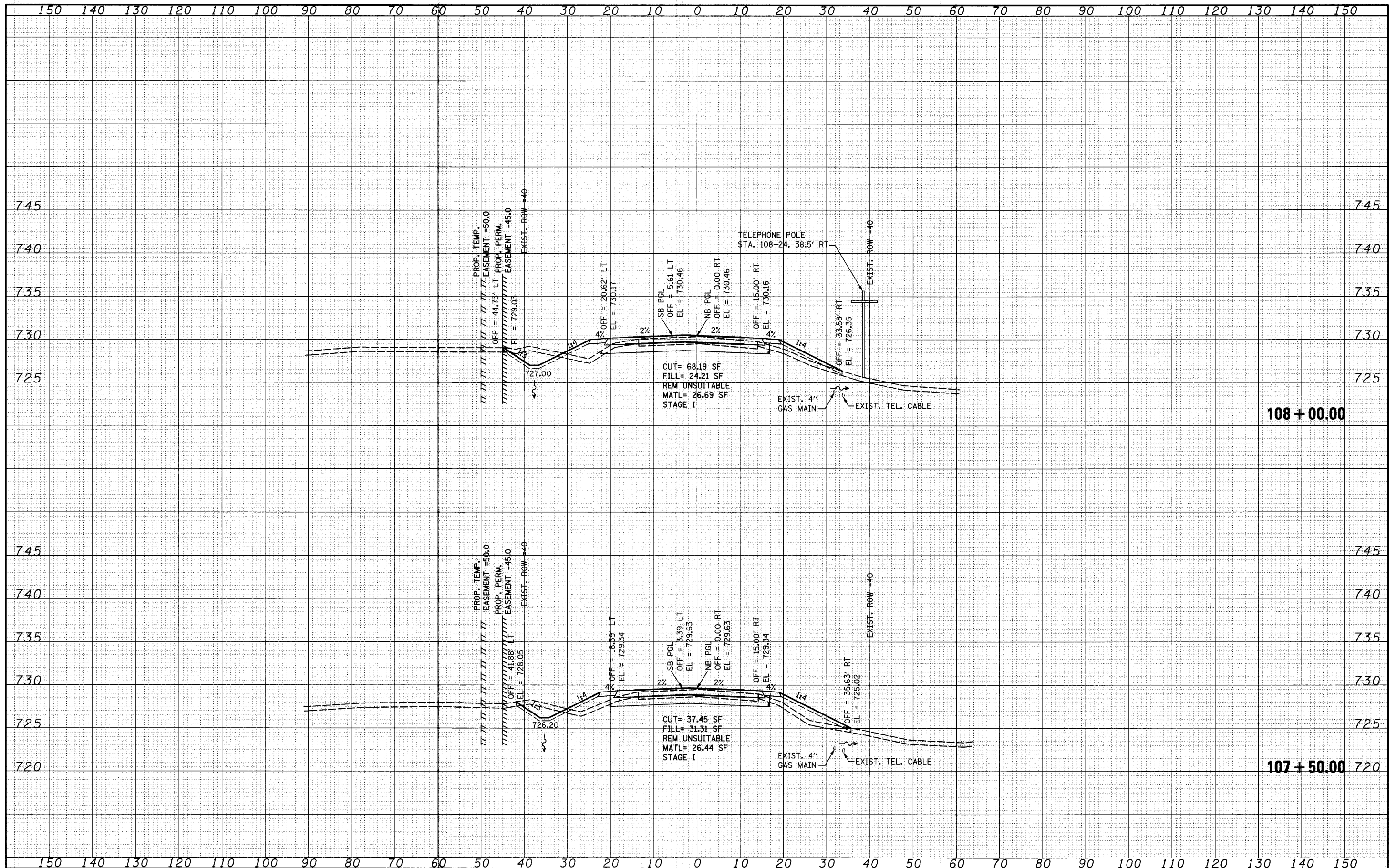
HUNT CLUB ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS | STA. 106+74.00 TO STA. 107+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	150
CONTRACT NO. 63457				

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FILE NAME =
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USER NAME = sran	DESIGNED - MAG	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

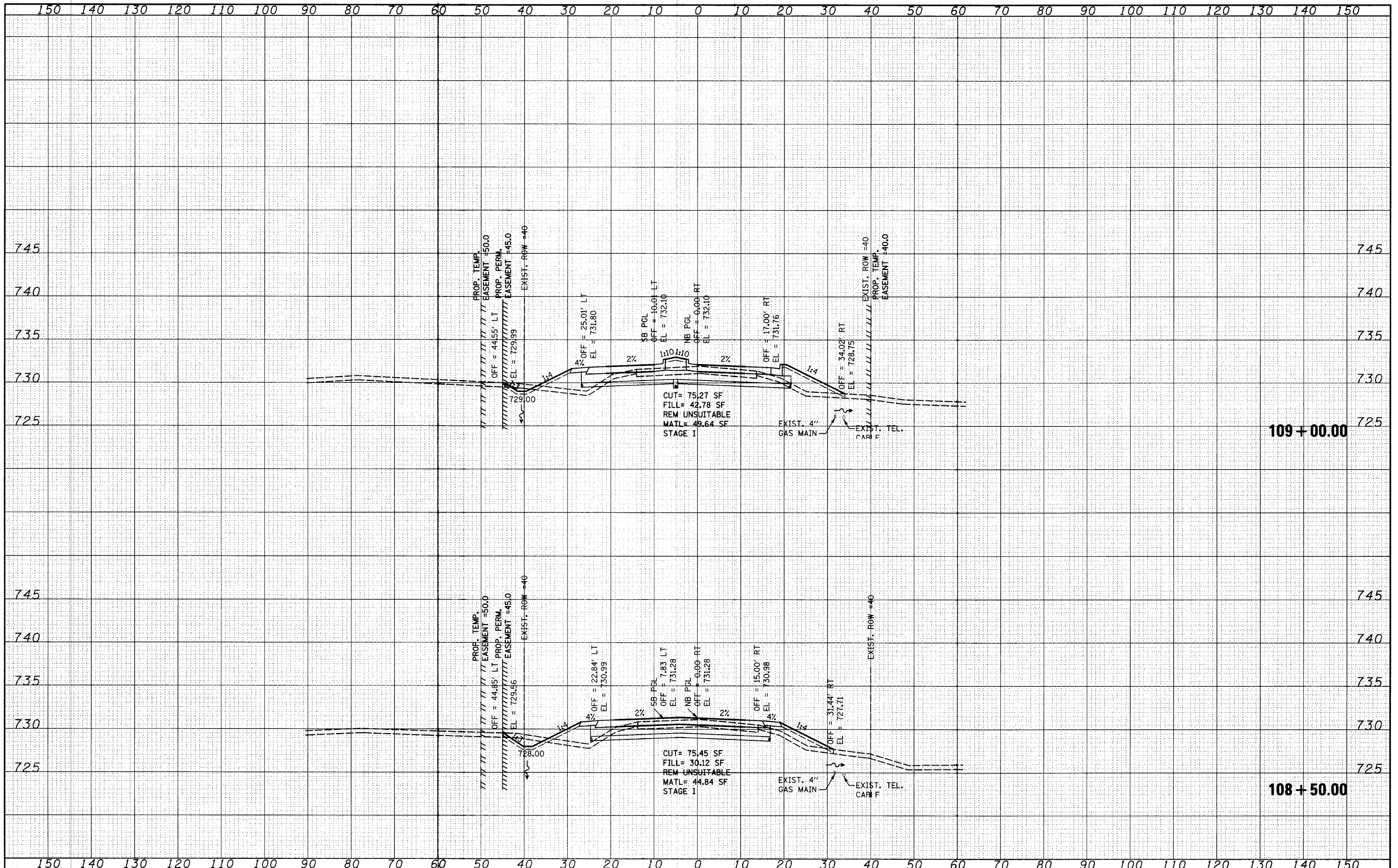
HUNT CLUB ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS | STA. 107+50.00 TO STA. 108+00.00

F.A. RTE. 2661	SECTION 02-00076-13-CH	COUNTY LAKE	TOTAL SHEETS 177	SHEET NO. 151
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63457	

FINAL SURVEY	DATE
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ORIGINAL SURVEY	DATE
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FILE NAME =	USER NAME = saron	DESIGNED - MAG	REVISED -
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PLOT DATE = 4/1/2012		CHECKED - RKK	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

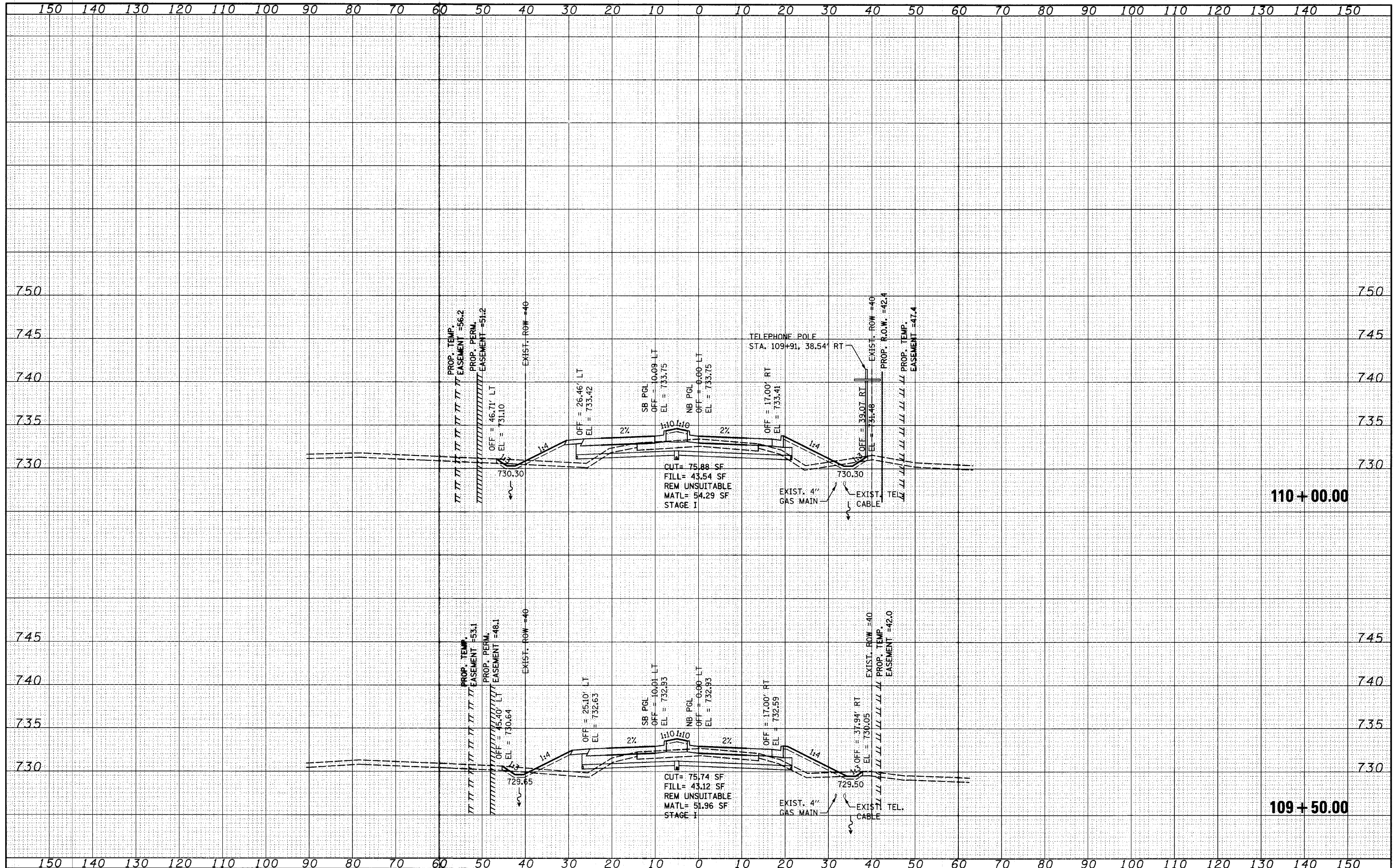
HUNT CLUB ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 108+50.00 TO STA. 109+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	152
CONTRACT NO. 63457			ILLINOIS FED. AID PROJECT	

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FILE NAME =
 USER NAME = sran
 DESIGNED - MAG
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 PLOT DATE = 4/1/2012

DESIGNED - MAG
 CHECKED - RKK
 DRAWN - VLF
 PLOT DATE = 4/1/2012

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

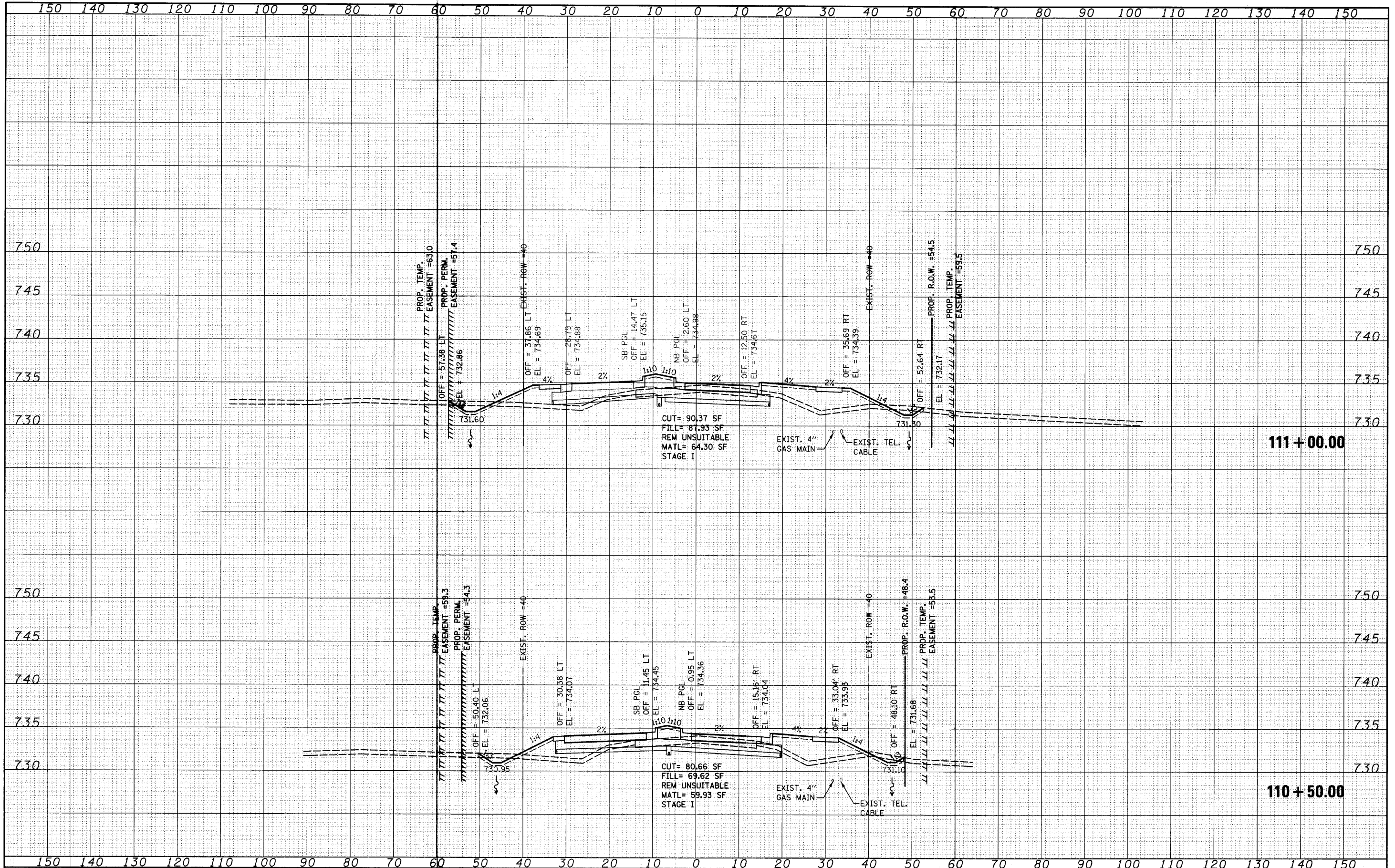
HUNT CLUB ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 109+50.00 TO STA. 110+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	153
CONTRACT NO. 63457				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
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 USER NAME = sarran
 PLOT SCALE = 10.0000' / IN.
 PLOT DATE = 4/1/2010

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

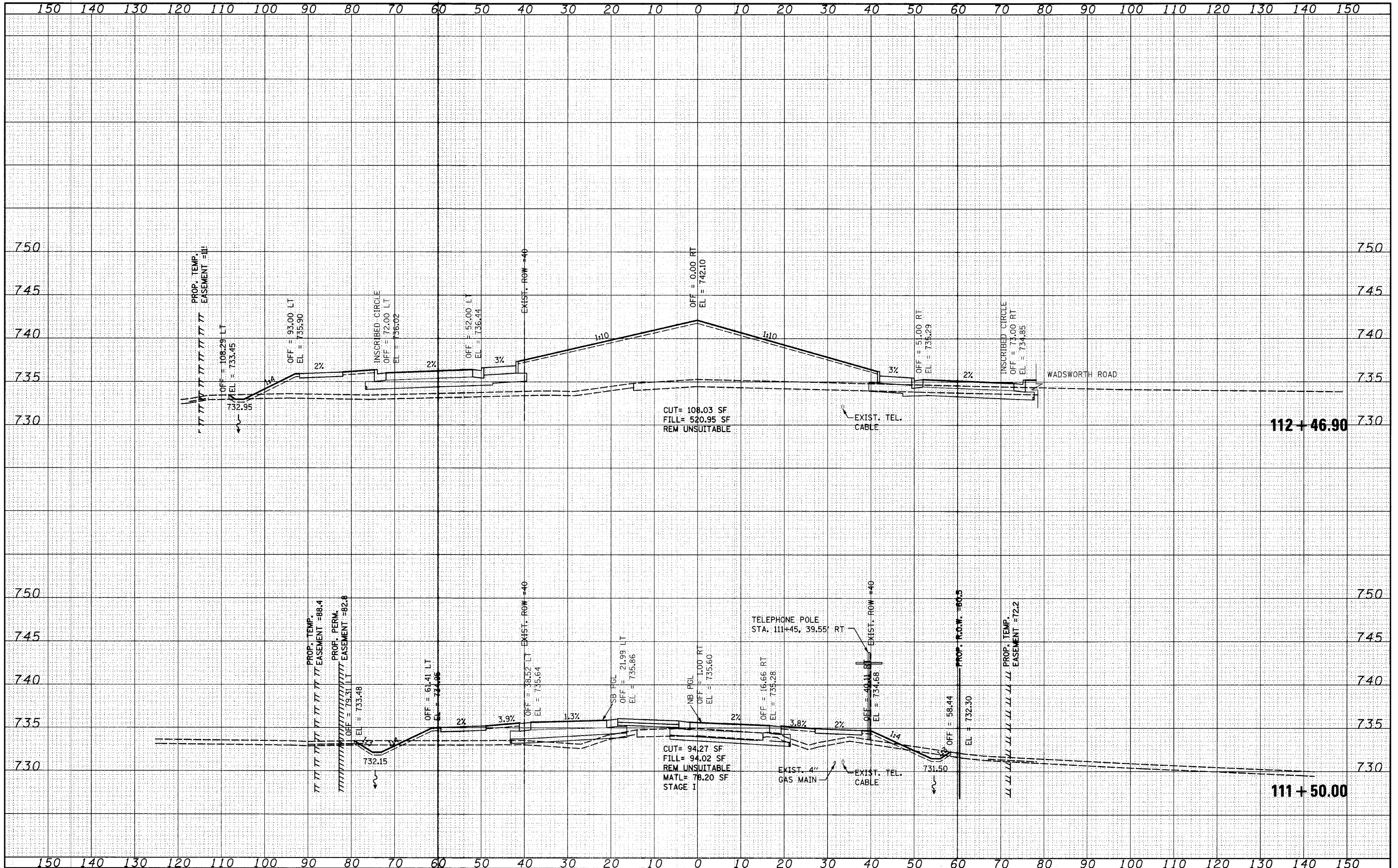
HUNT CLUB ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 110+50.00 TO STA. 111+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	154
CONTRACT NO. 63457				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
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FILE NAME =
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 PLOT SCALE = 10.0000' / IN.
 PLOT DATE = 4/1/2010

USER NAME =	ssran	DESIGNED -	MAG	REVISED -	
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DRAWN -	VLF				
CHECKED -	RKK				

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

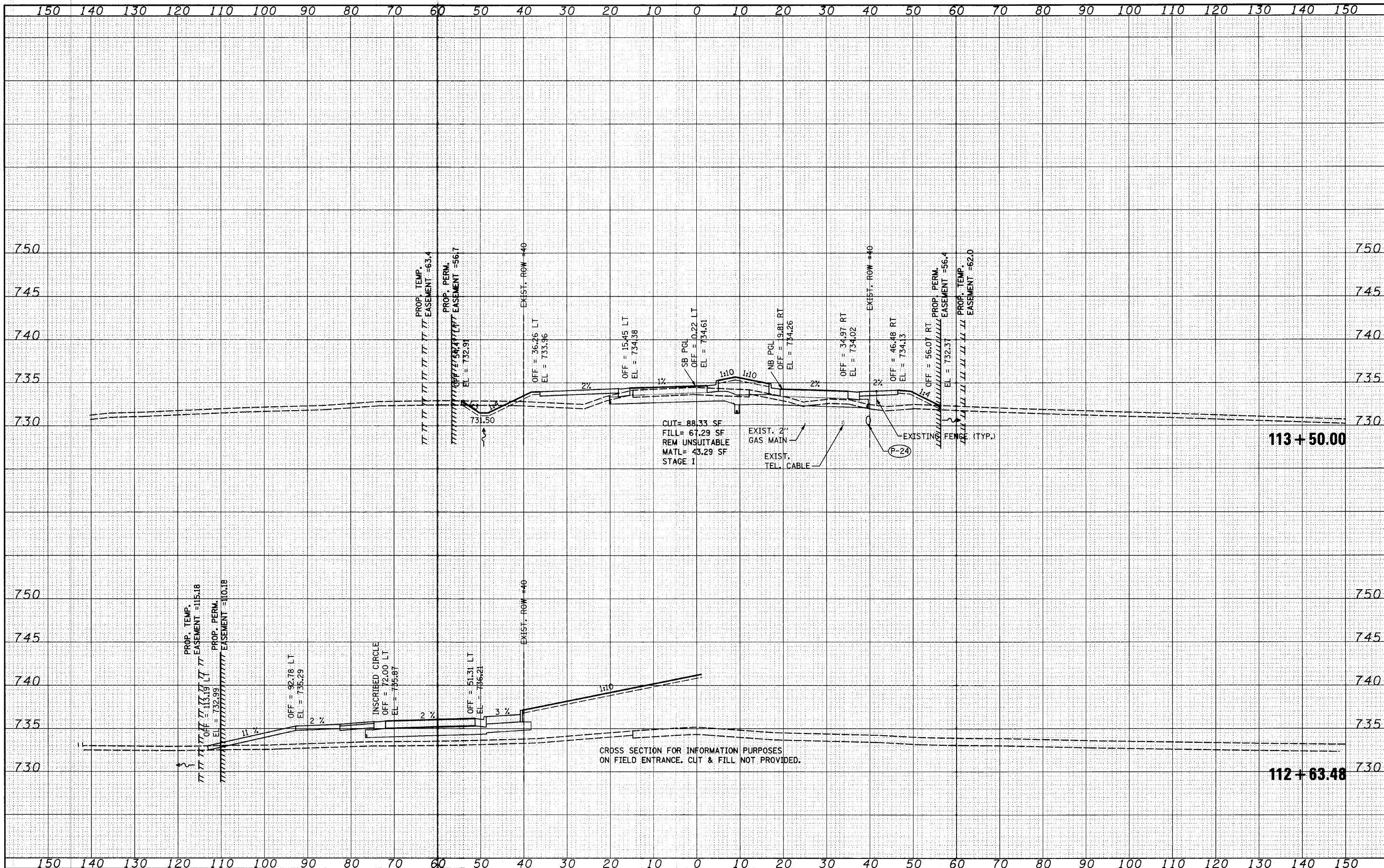
HUNT CLUB ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 111+50.00 TO STA. 112+46.90

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	155
CONTRACT NO. 63457				

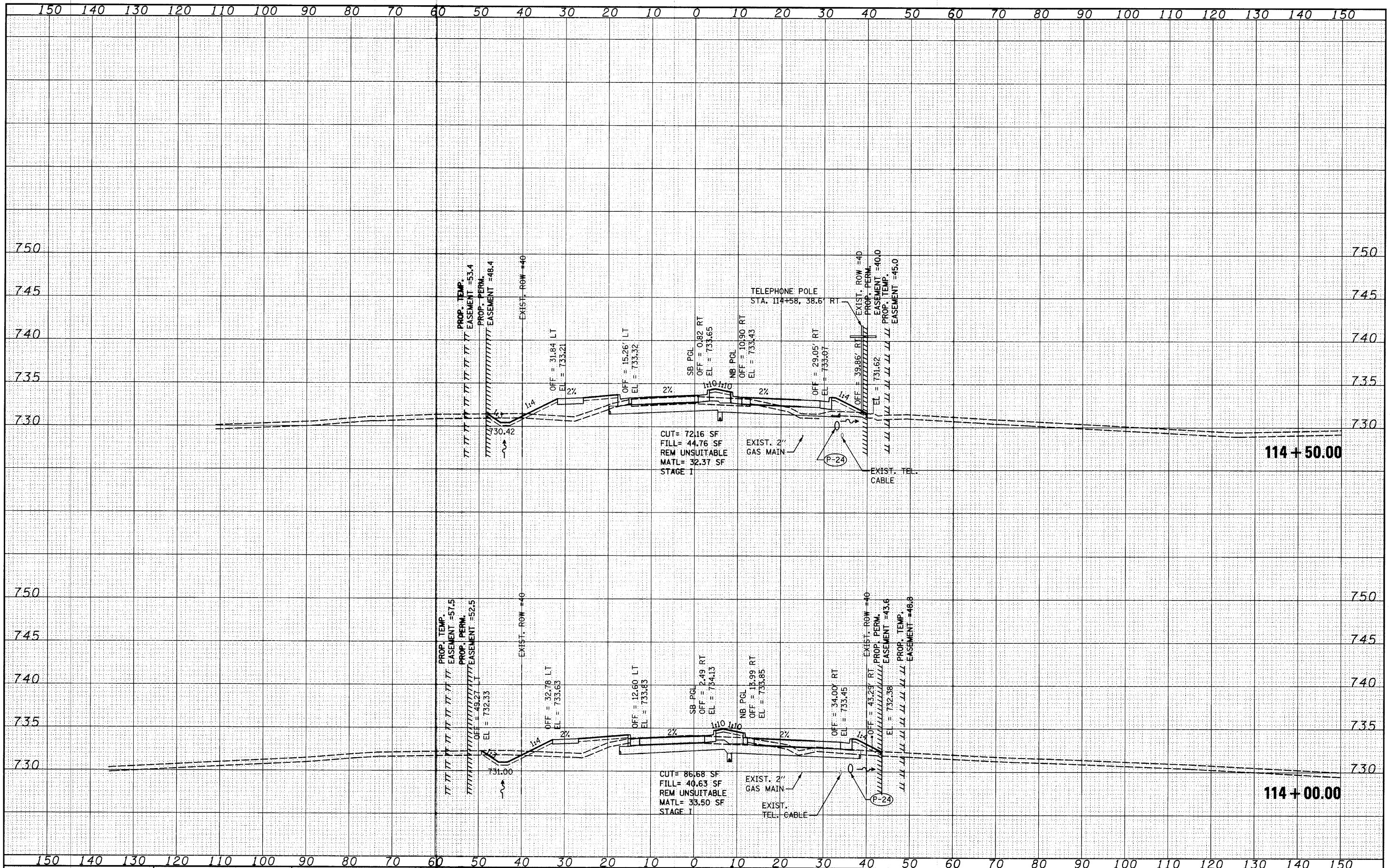
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

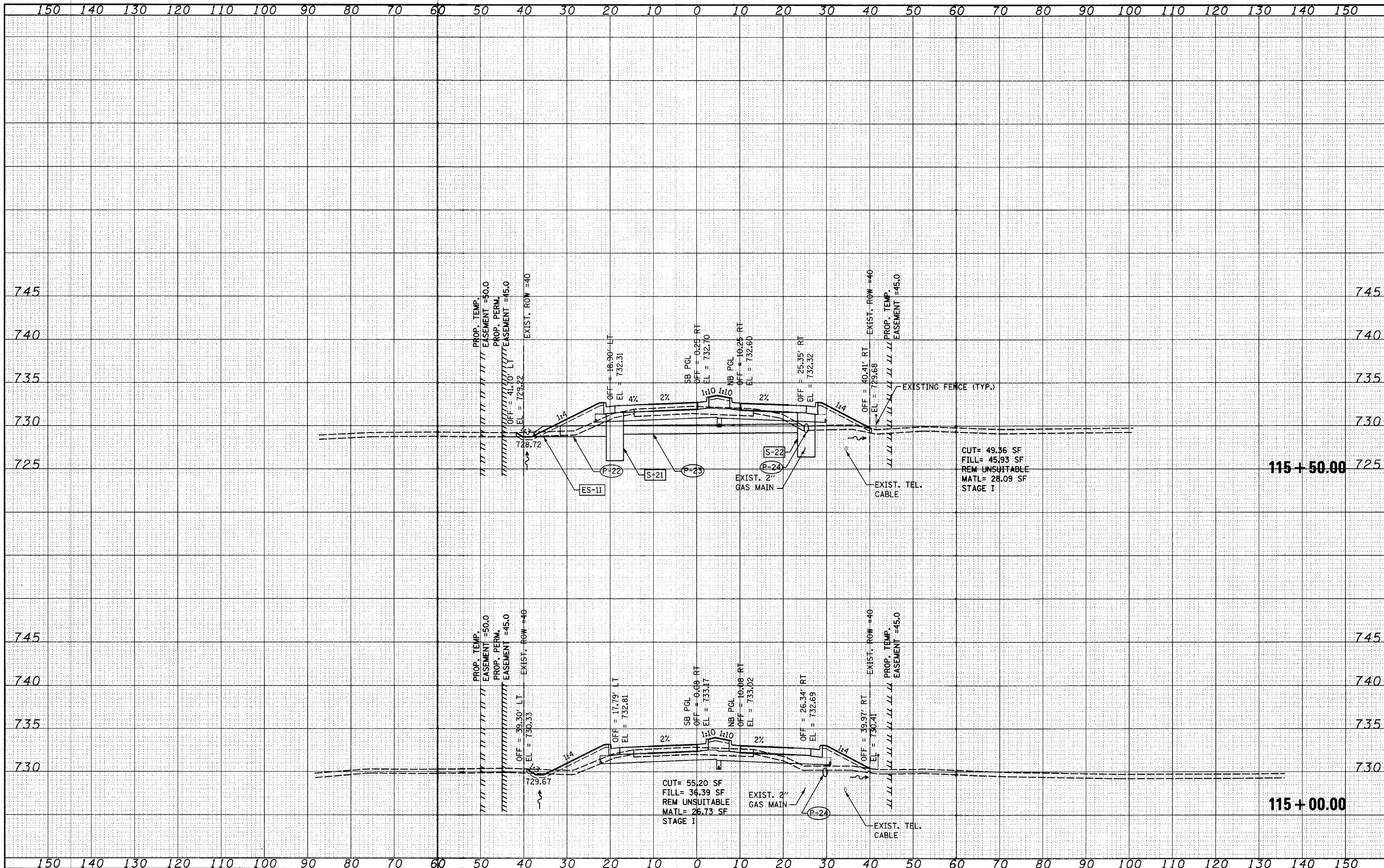
HUNT CLUB ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 114+00.00 TO STA. 114+50.00

F.A. RTE. 2661	SECTION 02-00076-13-CH	COUNTY LAKE	TOTAL SHEETS 177	SHEET NO. 157
CONTRACT NO. 63457				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
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FILE NAME = ...
 USER NAME = saron
 DESIGNED - MAG
 CHECKED - RKK
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 CHECKED - RKK
 PLOT SCALE = 10.0000' / IN.
 PLOT DATE = 4/1/2010

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 CHECKED - RKK
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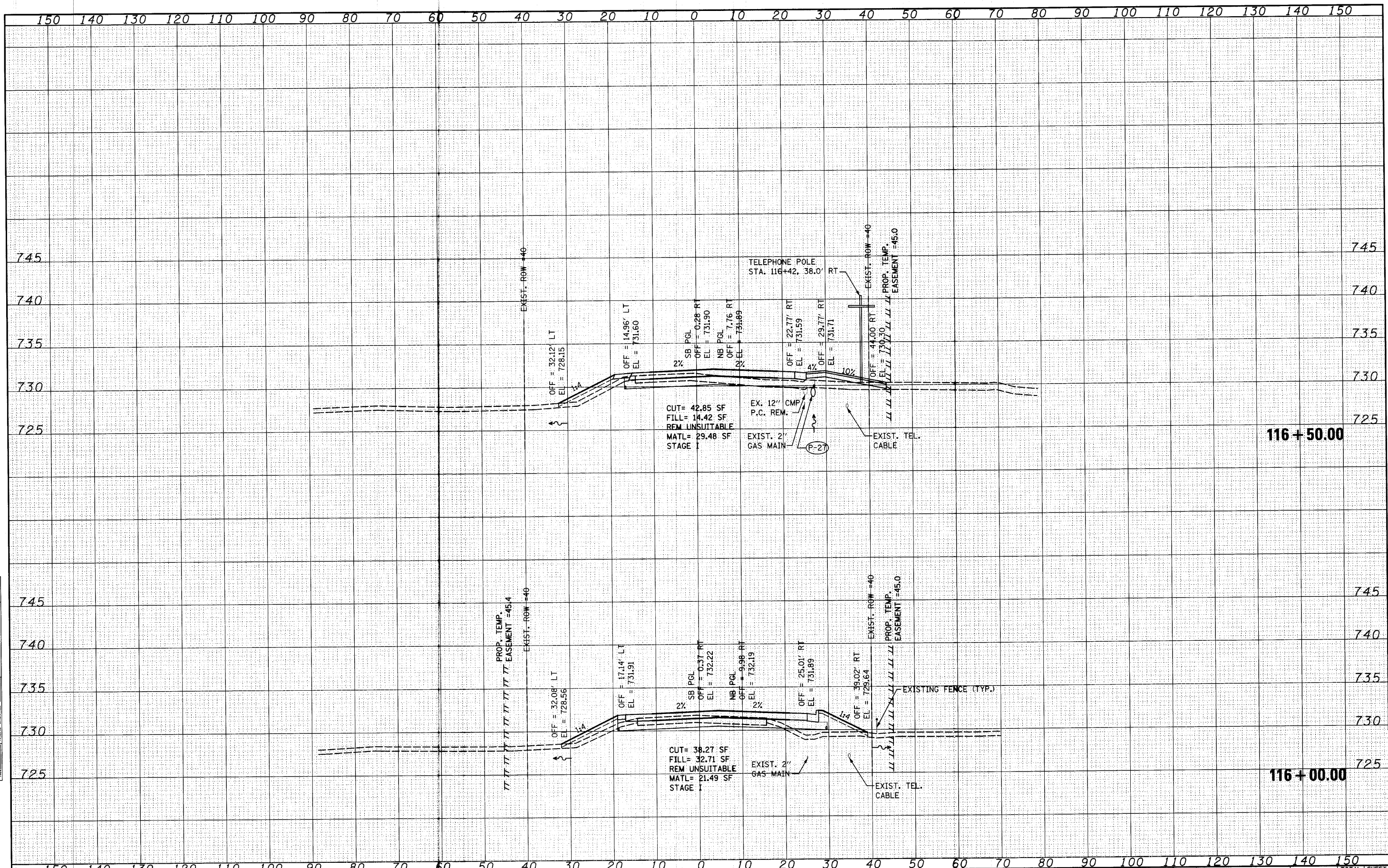
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

HUNT CLUB ROAD CROSS SECTIONS
 SCALE: SHEET NO. OF SHEETS | STA. 115+00.00 TO STA. 115+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	158
CONTRACT NO. 63457				

DATE	
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FILE NAME =
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USER NAME = saran
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 PLOT SCALE = 10.0000" / IN.
 PLOT DATE = 4/11/2012

DESIGNED - MAG
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 DRAWN - VLF
 CHECKED - RKK

REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

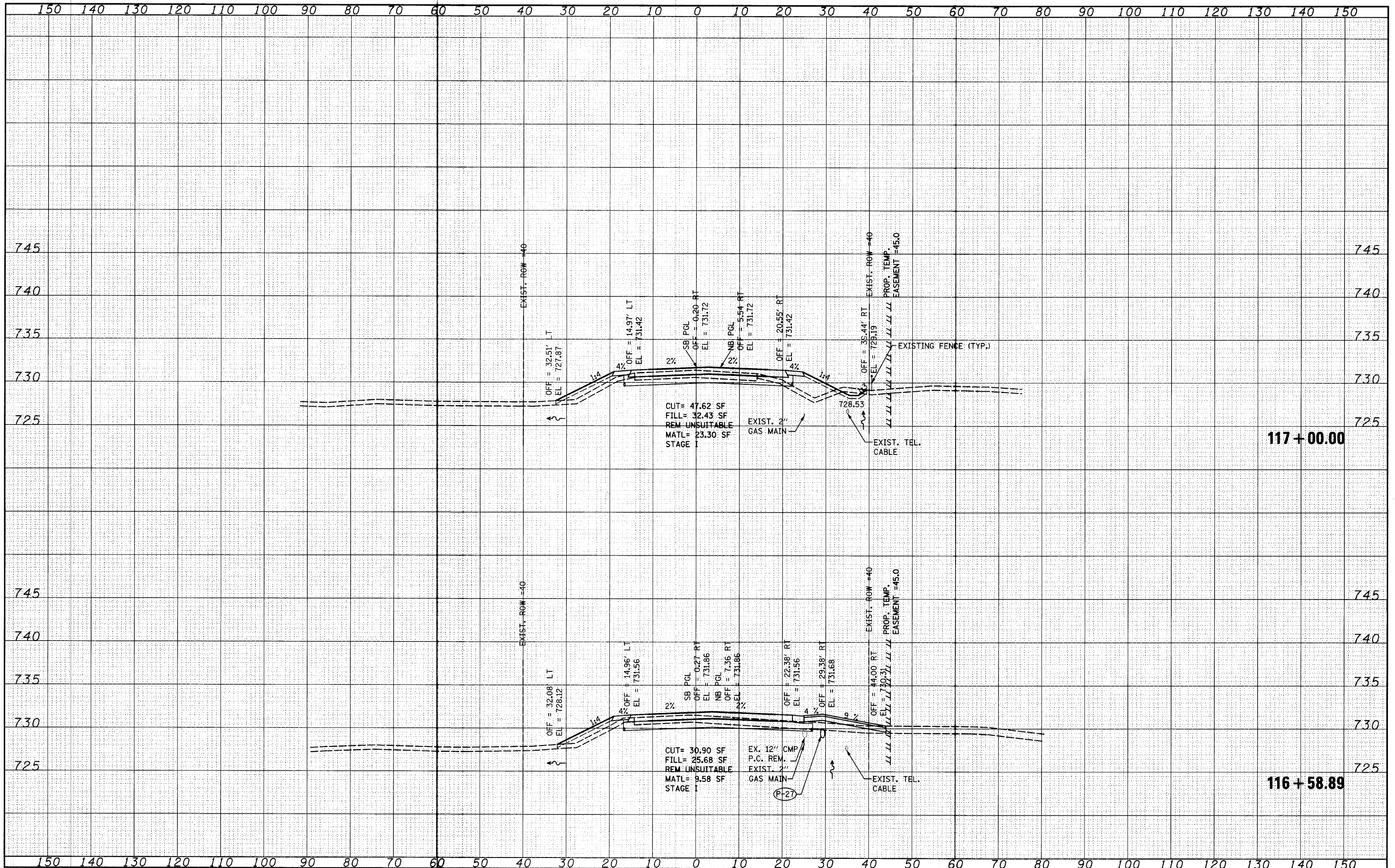
HUNT CLUB ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 116+00.00 TO STA. 116+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	159
CONTRACT NO. 63457				

DATE	
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FILE NAME =
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USER NAME =	saaran	DESIGNED -	MAG	REVISED -	
		CHECKED -	RKK	REVISED -	
PLOT SCALE =	10.0000' / IN.	DRAWN -	VLF	REVISED -	
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

HUNT CLUB ROAD CROSS SECTIONS

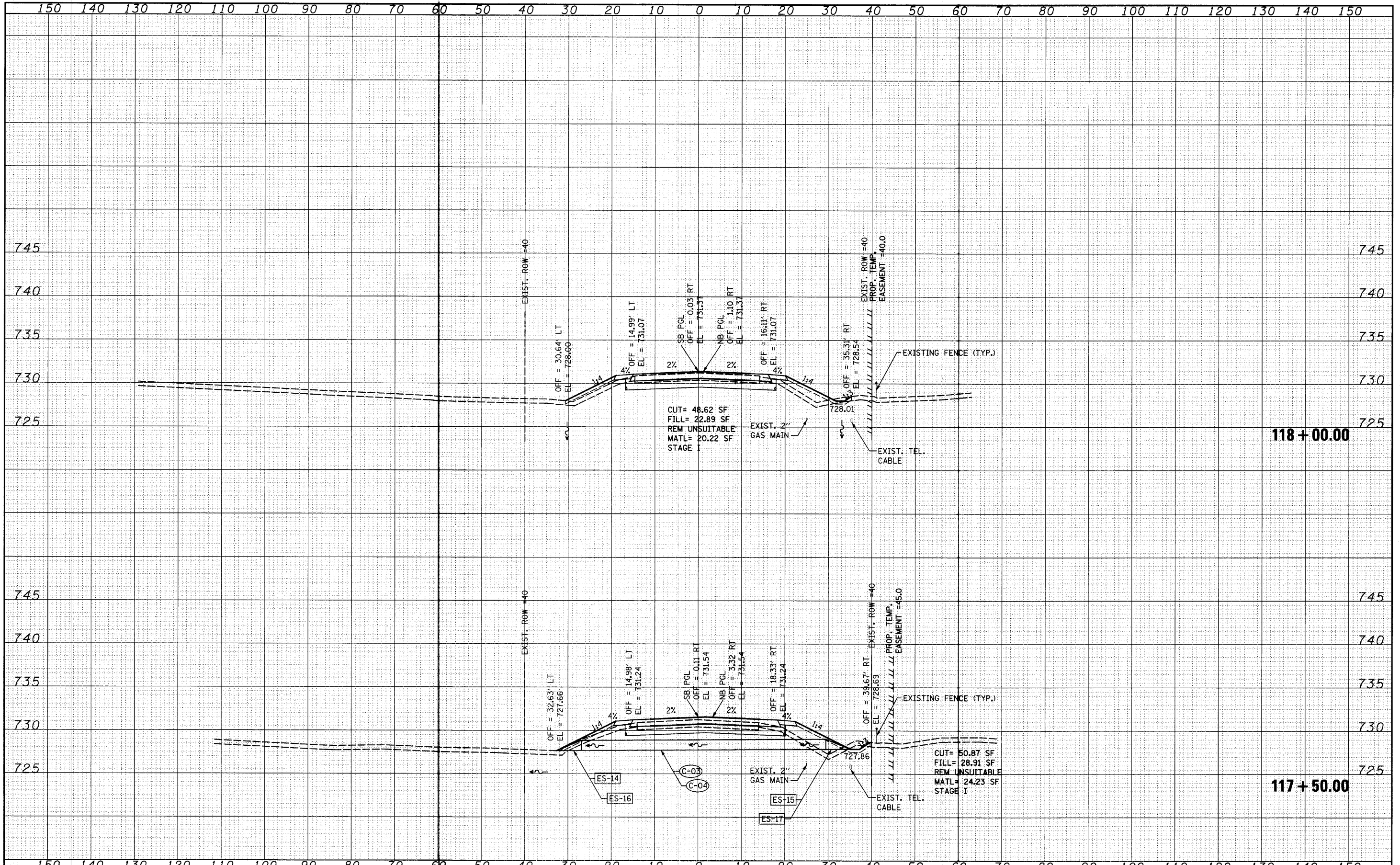
SCALE: SHEET NO. OF SHEETS STA. 116+58.89 TO STA. 117+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	160
CONTRACT NO. 63457				

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

DATE	
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FINAL SURVEY	
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FILE NAME =
 USER NAME = sarran
 DESIGNED - MAG
 CHECKED - RKK
 DRAWN - VLF
 CHECKED - RKK
 PLOT SCALE = 10,000' / IN.
 PLOT DATE = 4/1/2010

DESIGNED - MAG
 CHECKED - RKK
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

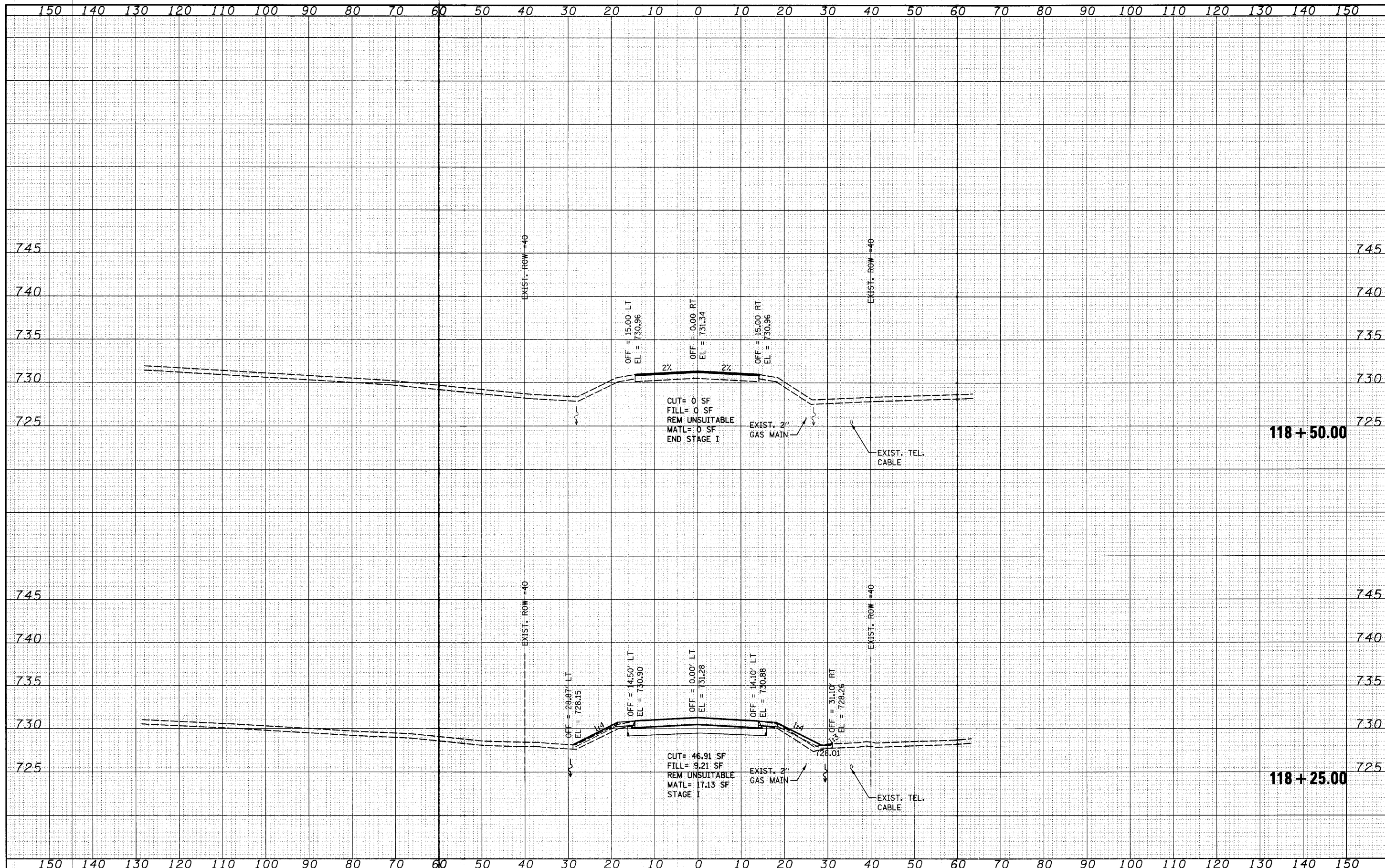
HUNT CLUB ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 117+50.00 TO STA. 118+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	161
CONTRACT NO. 63457				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
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FILE NAME = \\j01\1900-1999\1902\002\micros\Cross sections\DI-sht-xasht-HCR.dgn
 USER NAME = sa-an
 DESIGNED - MAG
 CHECKED - RKK
 DRAWN - VLF
 PLOT SCALE = 10.0000' / IN.
 PLOT DATE = 4/1/2012

DESIGNED - MAG	REVISED -
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DRAWN - VLF	REVISED -
CHECKED - RKK	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

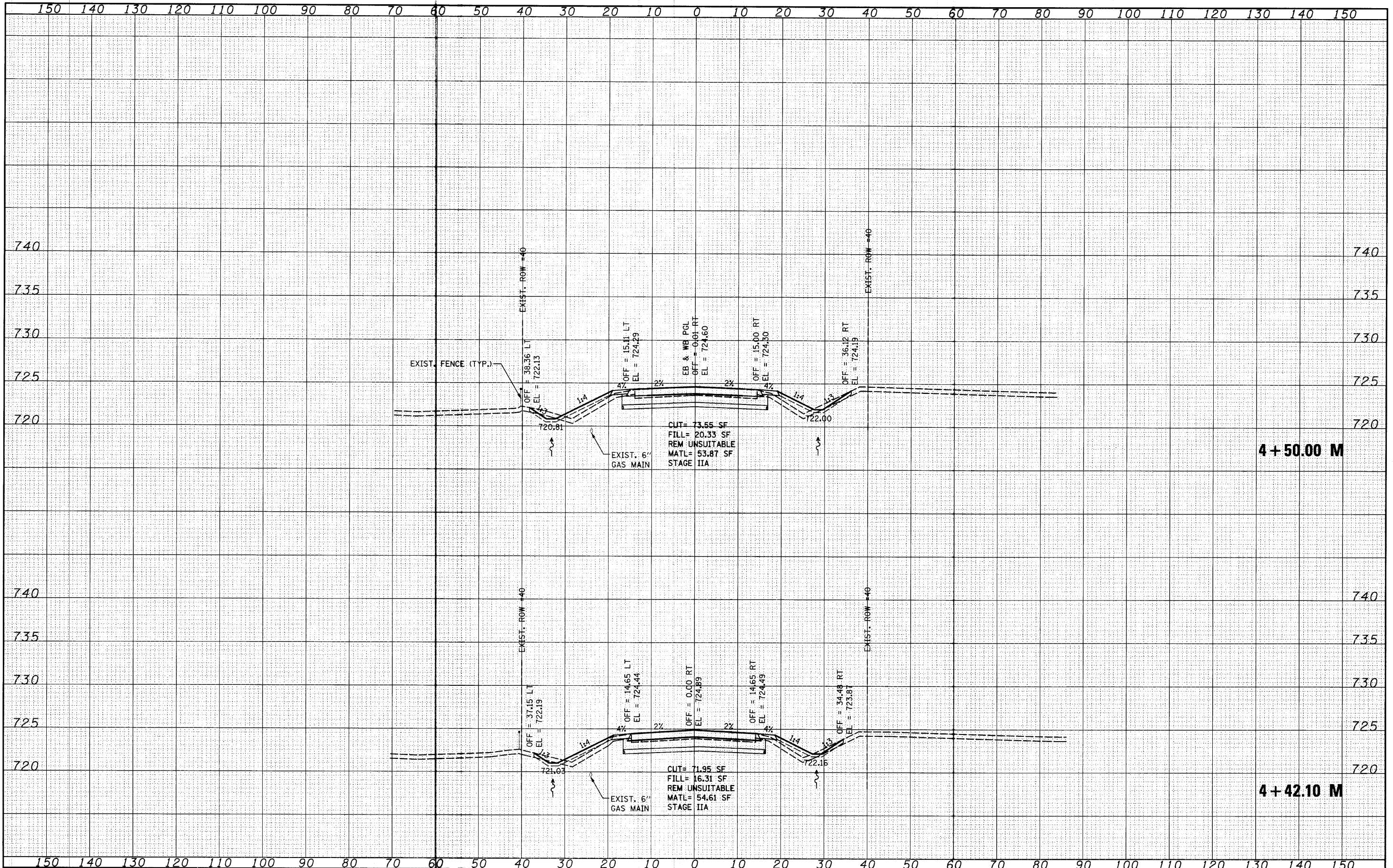
HUNT CLUB ROAD CROSS SECTIONS

SCALE: SHEET NO. 02 OF SHEETS STA. 118+25.00 TO STA. 118+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	162
CONTRACT NO. 63457			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

DATE	
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FINAL SURVEY	
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NOTE BOOK	
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FILE NAME =
 USER NAME = saron
 DESIGNED - MAG
 CHECKED - RKK
 DRAWN - VLF
 PLOT DATE = 4/1/2012

DESIGNED - MAG
 CHECKED - RKK
 DRAWN - VLF
 PLOT DATE = 4/1/2012

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

MILLBURN ROAD CROSS SECTIONS

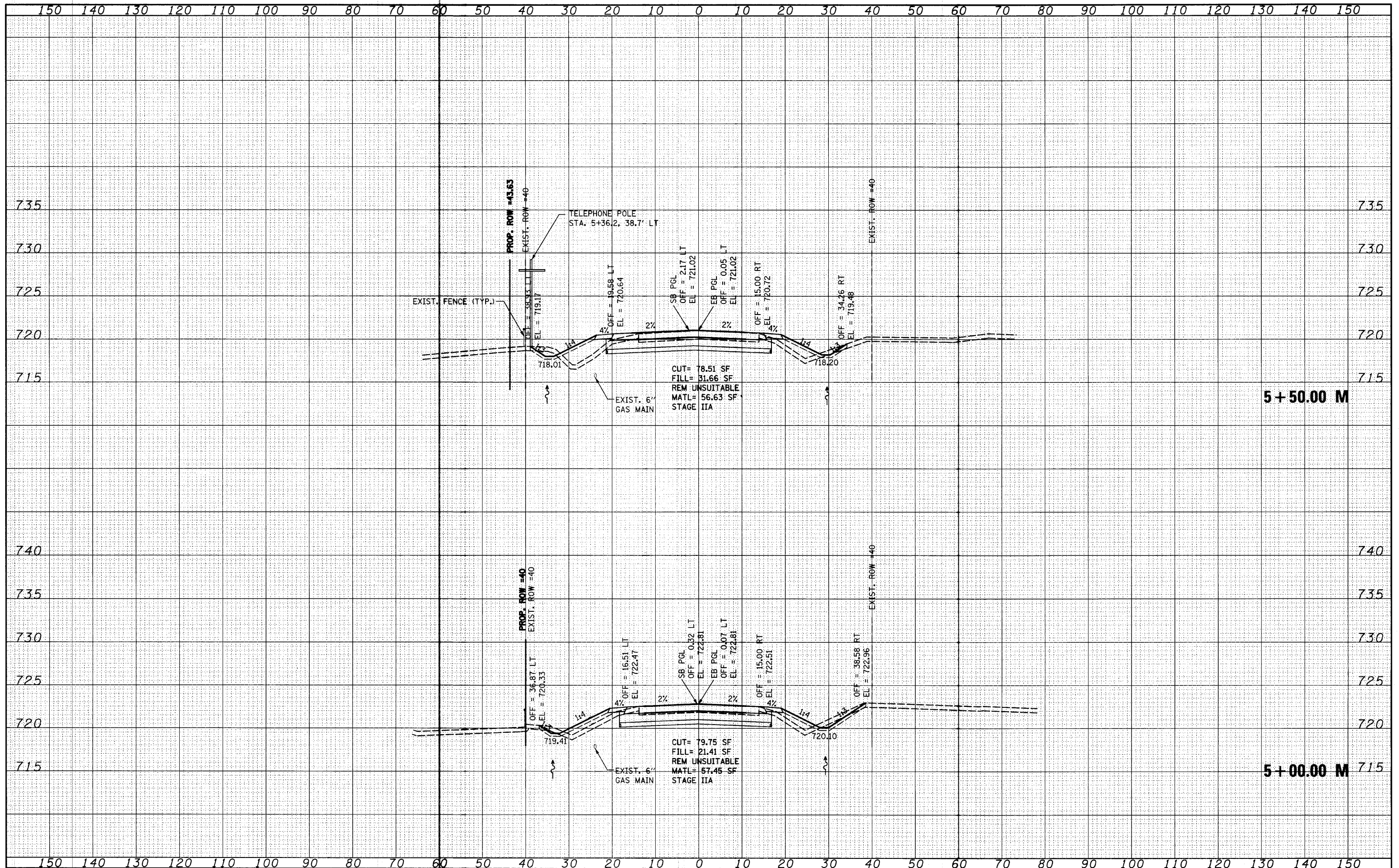
SCALE: SHEET NO. OF SHEETS STA. 4+42.10 TO STA. 4+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	163
CONTRACT NO. 63457				

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

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FILE NAME =
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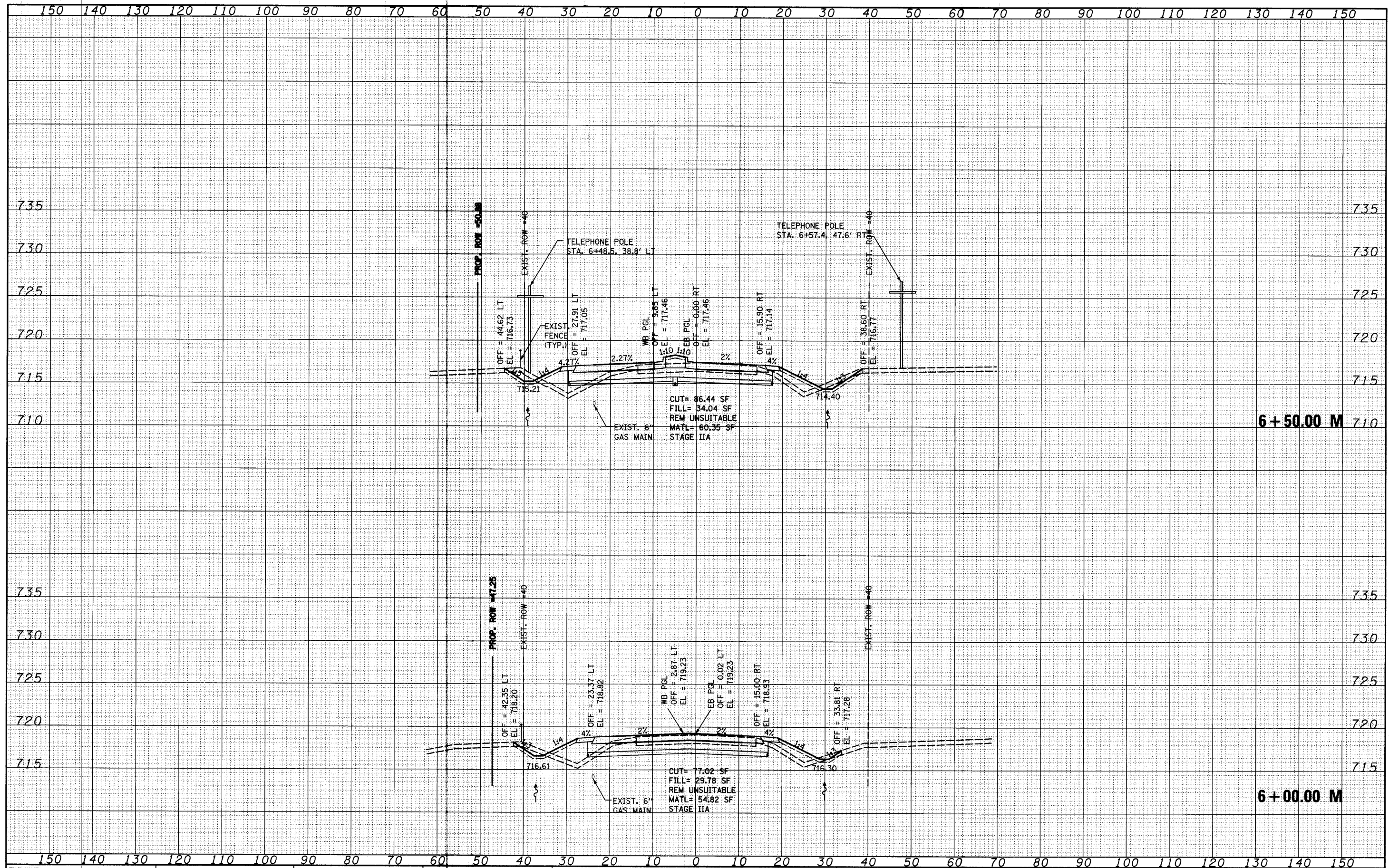
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	CHECKED - RKK	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MILLBURN ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 5+00.00 TO STA. 5+50.00

F.A. RTE. 2661	SECTION 02-00076-13-CH	COUNTY LAKE	TOTAL SHEETS 177	SHEET NO. 164
CONTRACT NO. 63457				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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 PLOT DATE = 9/23/2010

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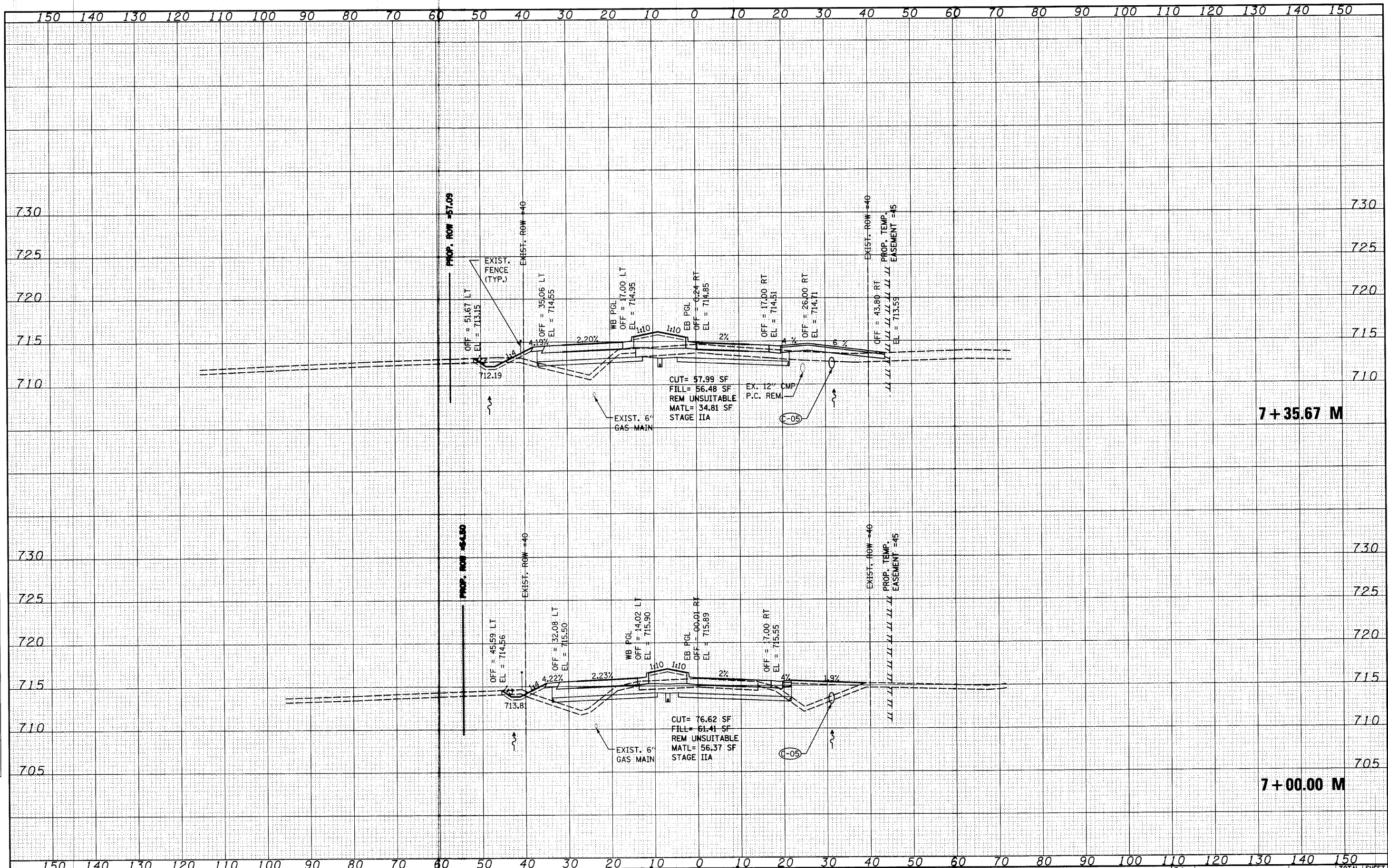
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MILLBURN ROAD CROSS SECTIONS
 SCALE: SHEET NO. OF SHEETS STA. 6+00.00 TO STA. 6+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	165
CONTRACT NO. 63457				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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NOTE BOOK	
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 CHECKED - RKK
 DRAWN - VLF
 CHECKED - PKK
 PLOT DATE = 4/1/2018

DESIGNED - MAG
 CHECKED - RKK
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REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

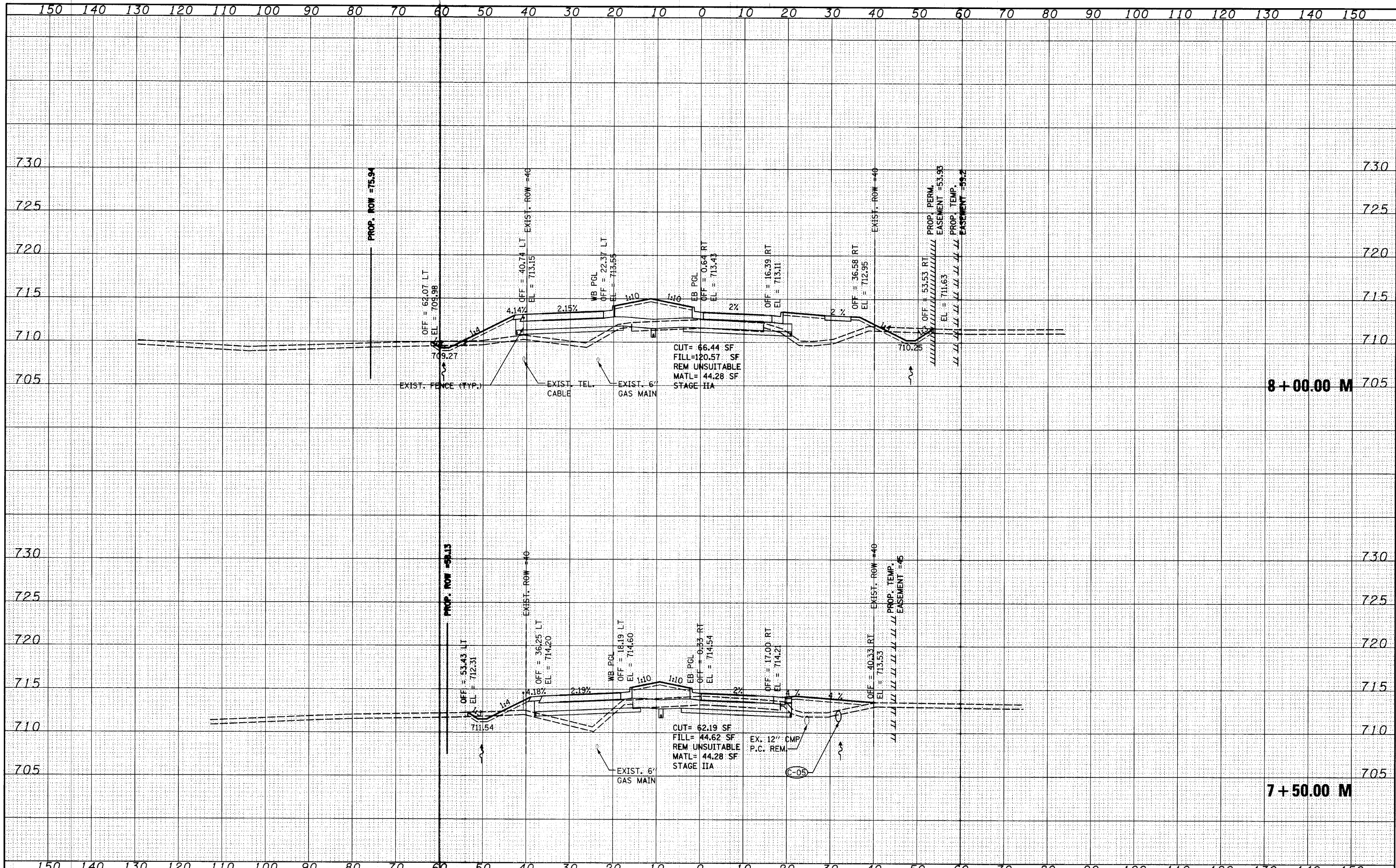
MILLBURN ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 7+00.00 TO STA. 7+35.67

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	166
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63457	

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CHECKED - RKK	DRAWN - VLF	REVISED -
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PLOT DATE = 4/1/2012		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MILLBURN ROAD CROSS SECTIONS

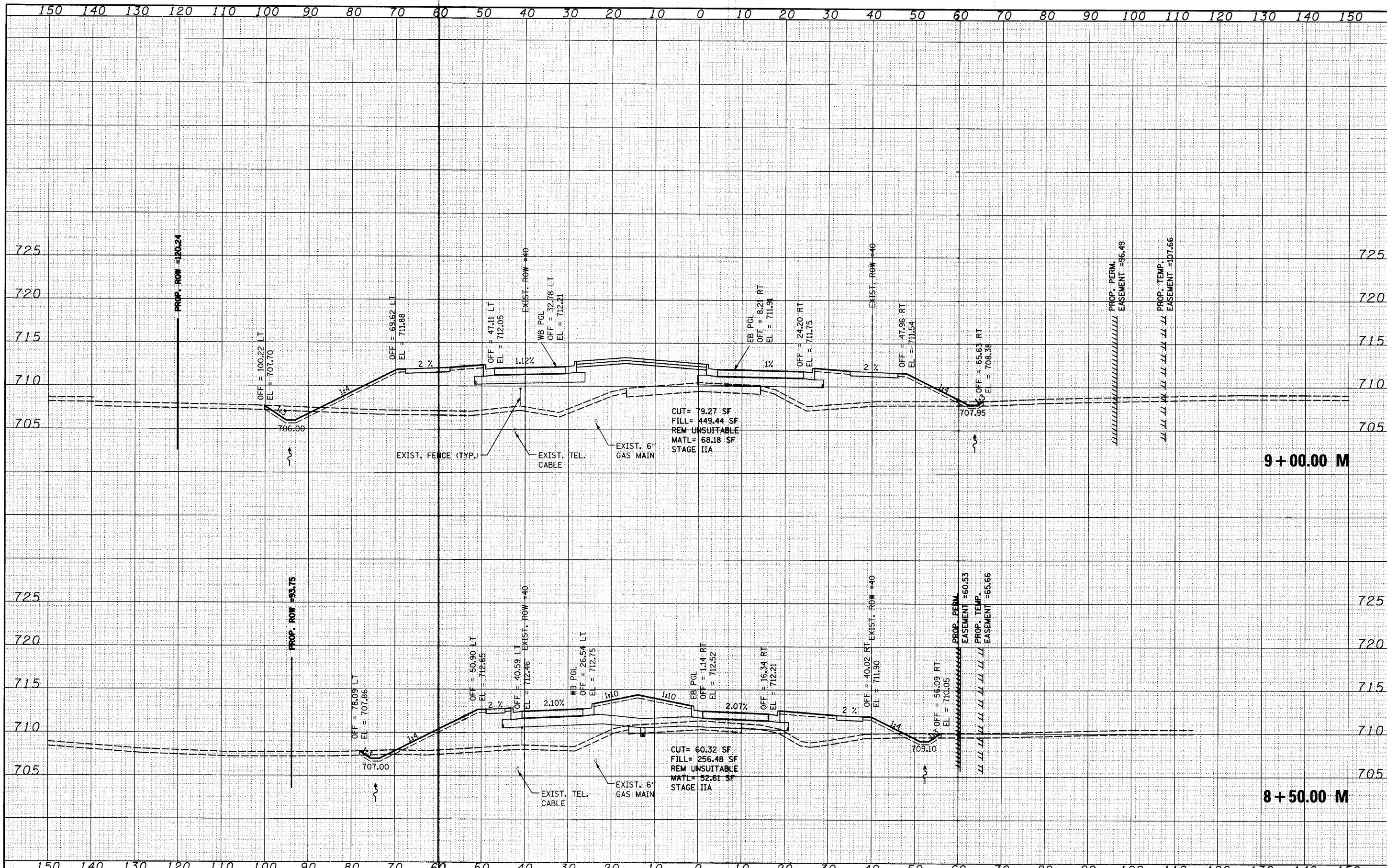
SCALE: SHEET NO. OF SHEETS STA. 7+50.00 TO STA. 8+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	167
CONTRACT NO. 63457				

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

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PLOT DATE =	4/1/2010	DRAWN -	VLF	REVISED -	
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

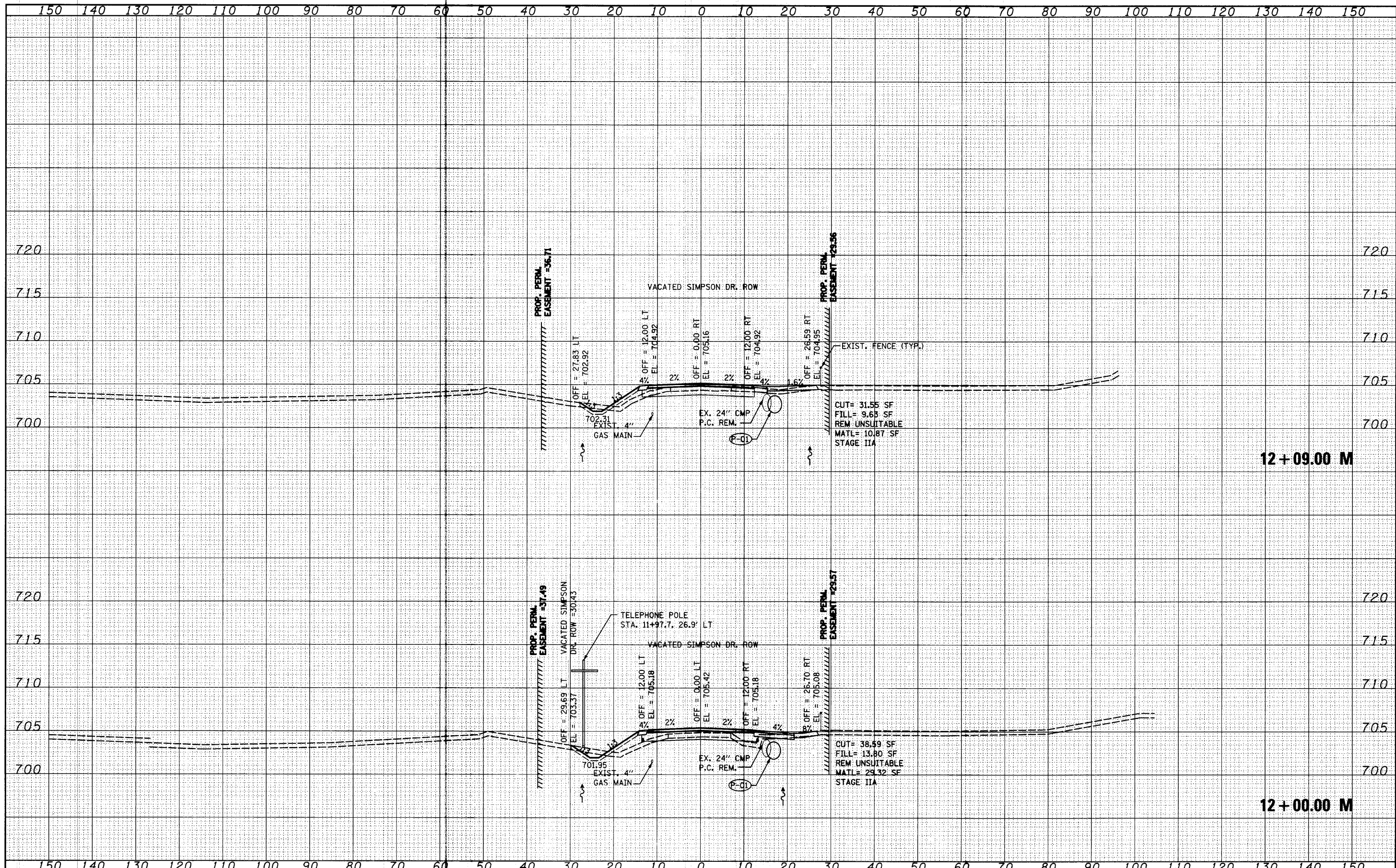
MILLBURN ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 8+50.00 TO STA. 9+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	168
CONTRACT NO. 63457				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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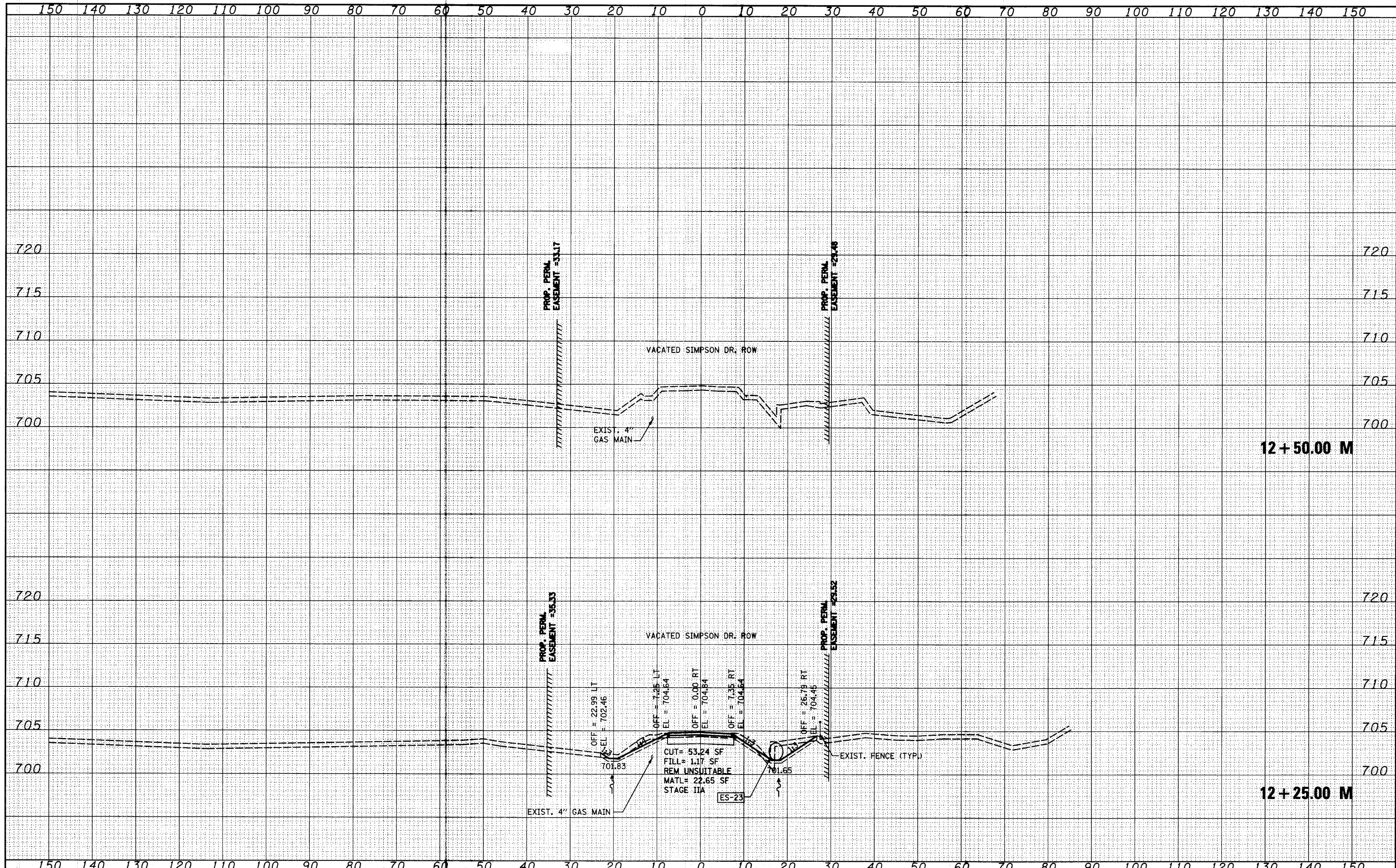
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FILE NAME =	USER NAME = mag	DESIGNED - MAG	REVISED - SAI - 9/10/10	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MILLBURN ROAD CROSS SECTIONS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
S:\JUL1988-1999\1902\002\Micro\Cross sections\DI-sht-xshht-Millburn.dgn	PLLOT SCALE = 10.0000' / IN.	CHECKED - RKK	REVISED -			2661	02-00076-13-CH	LAKE	177	170	
PLOT DATE = 9/13/2010	CHECKED - RKK	REVISED -	REVISED -			CONTRACT NO. 63457					
SCALE: SHEET NO. OF SHEETS STA. 12+00.00 TO STA. 12+09.00						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

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ORIGINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
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FILE NAME = S:\JUL1988-1999\902\002\Micros\Cross sections

USER NAME = marg
 PLOT SCALE = 10.0000' / IN.
 PLOT DATE = 9/13/2019

DESIGNED - MAG	REVISION - SAI - 9/10/10
CHECKED - RKK	REVISION -
DRAWN - VLF	REVISION -
CHECKED - RKK	REVISION -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

MILLBURN ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 12+25.00 TO STA. 12+50.00

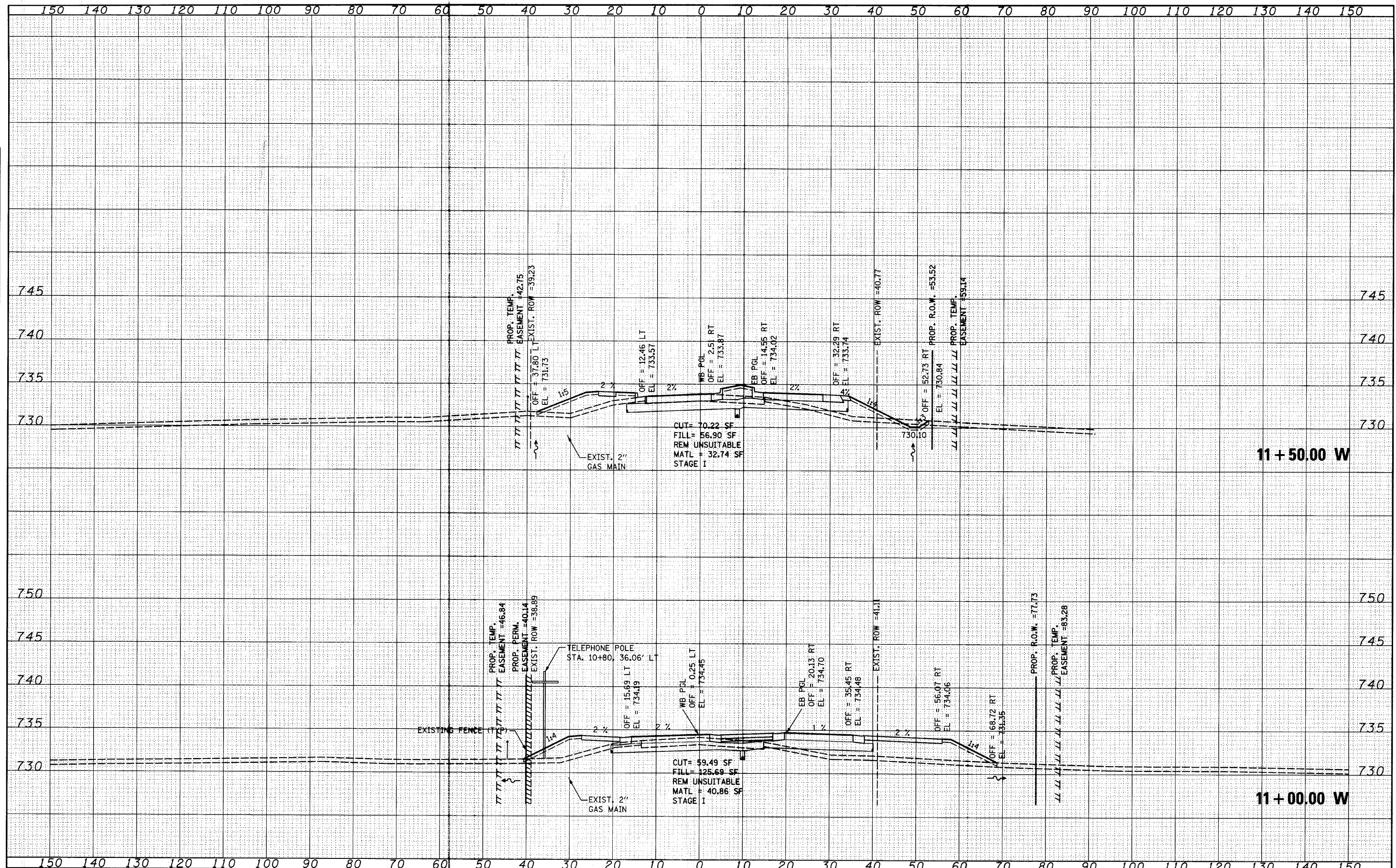
F.A. RTE. 2661	SECTION 02-00076-13-CH	COUNTY LAKE	TOTAL SHEETS 177	SHEET NO. 171
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

12 + 50.00 M

12 + 25.00 M

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NOTE BOOK	
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FILE NAME = S:\JUL1980-1999\1982\002\Micro\Cross section\DI-aht-xshht-Wadsworth.dgn

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 PLOT DATE = 4/1/2010

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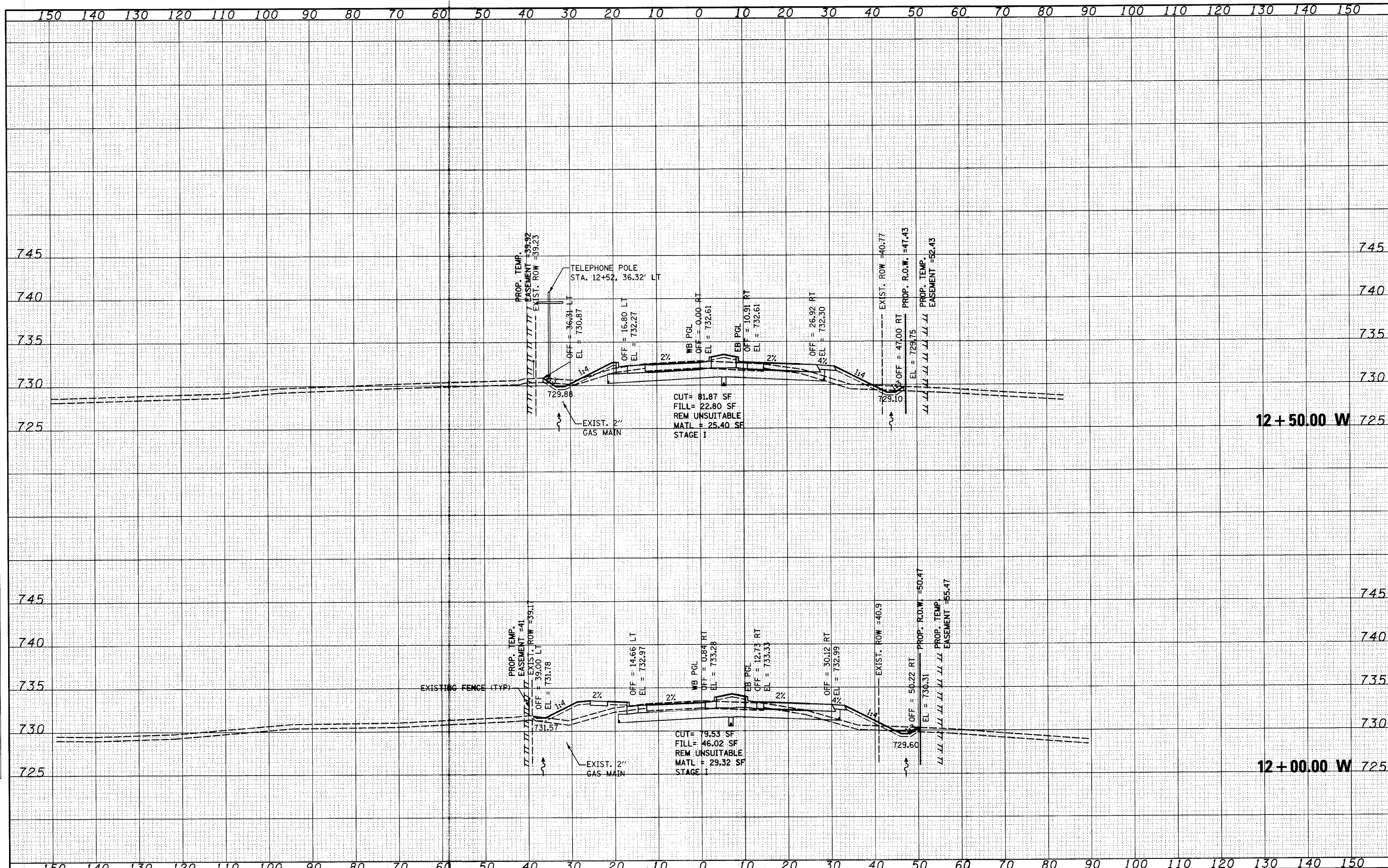
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WADSWORTH ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 11+00.00 TO STA. 11+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	172
CONTRACT NO. 63457			ILLINOIS FED. AID PROJECT	

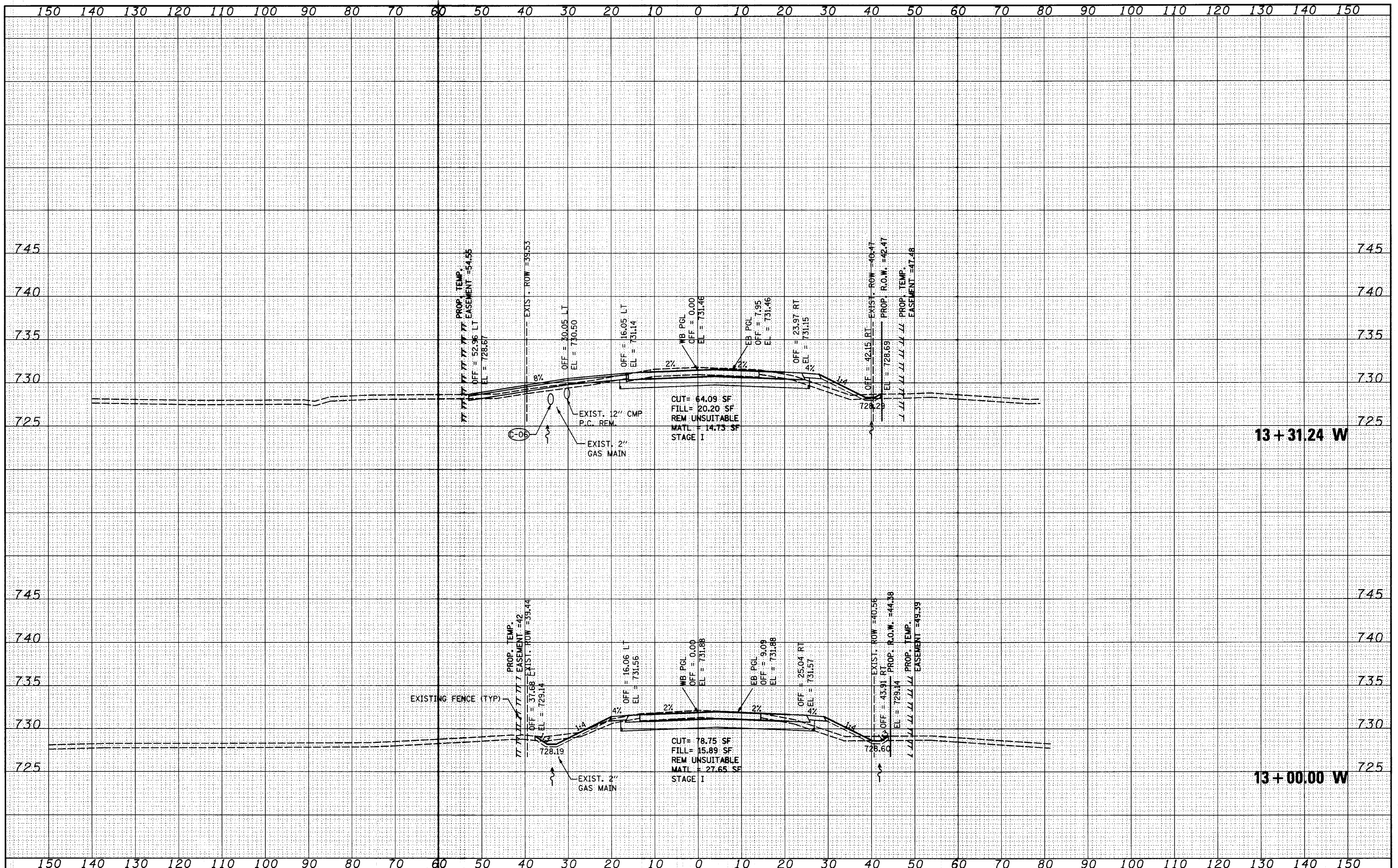


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FILE NAME =
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 DESIGNED - MAG
 CHECKED - RKK
 DRAWN - VLF
 CHECKED - RKK
 PLOT SCALE = 10.0000' / IN.
 PLOT DATE = 4/1/2012

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

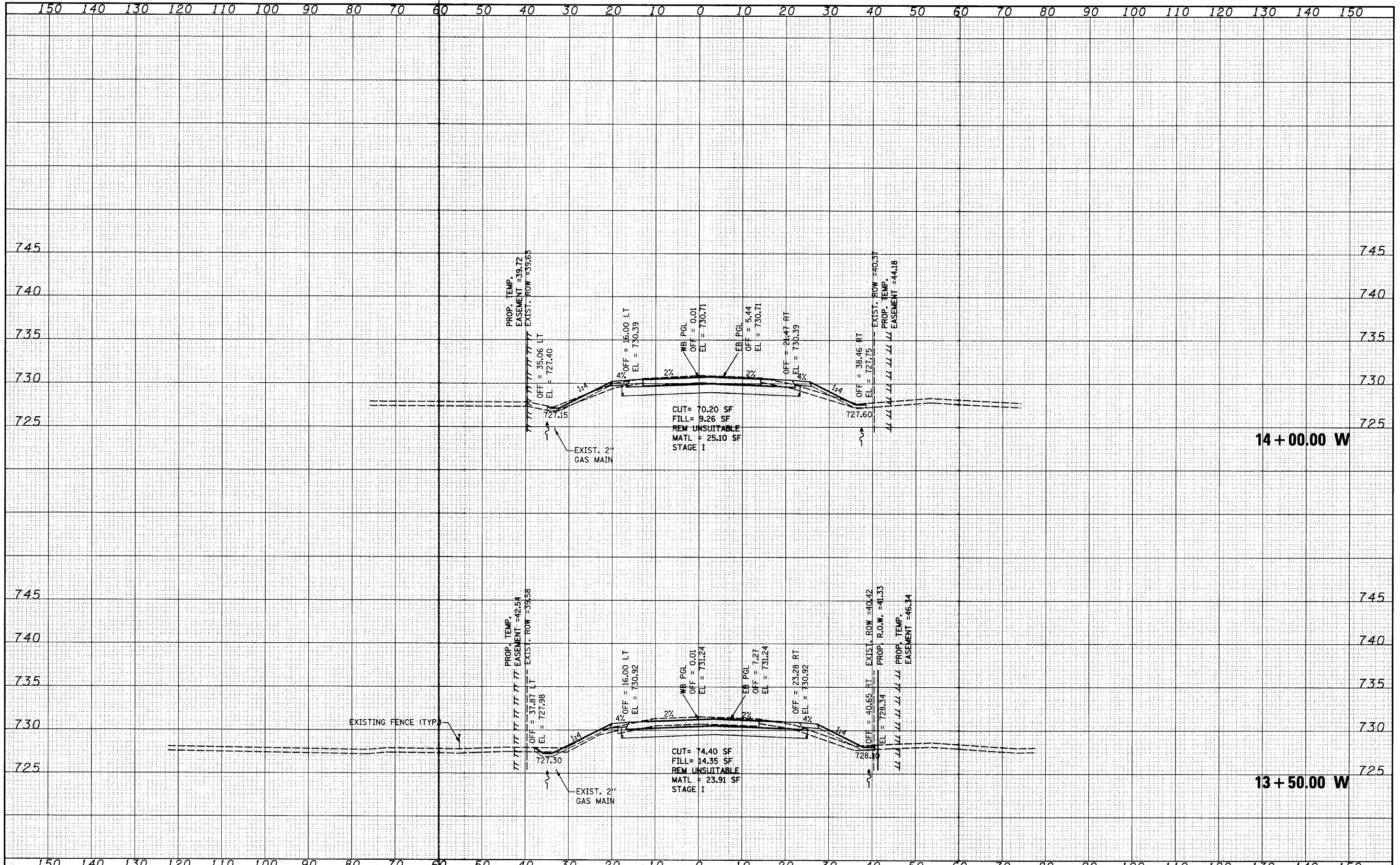
WADSWORTH ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 13+00.00 TO STA. 13+31.24

F.A. RTE. 2661	SECTION 02-00076-13-CH	COUNTY LAKE	TOTAL SHEETS 177	SHEET NO. 174
CONTRACT NO. 63457				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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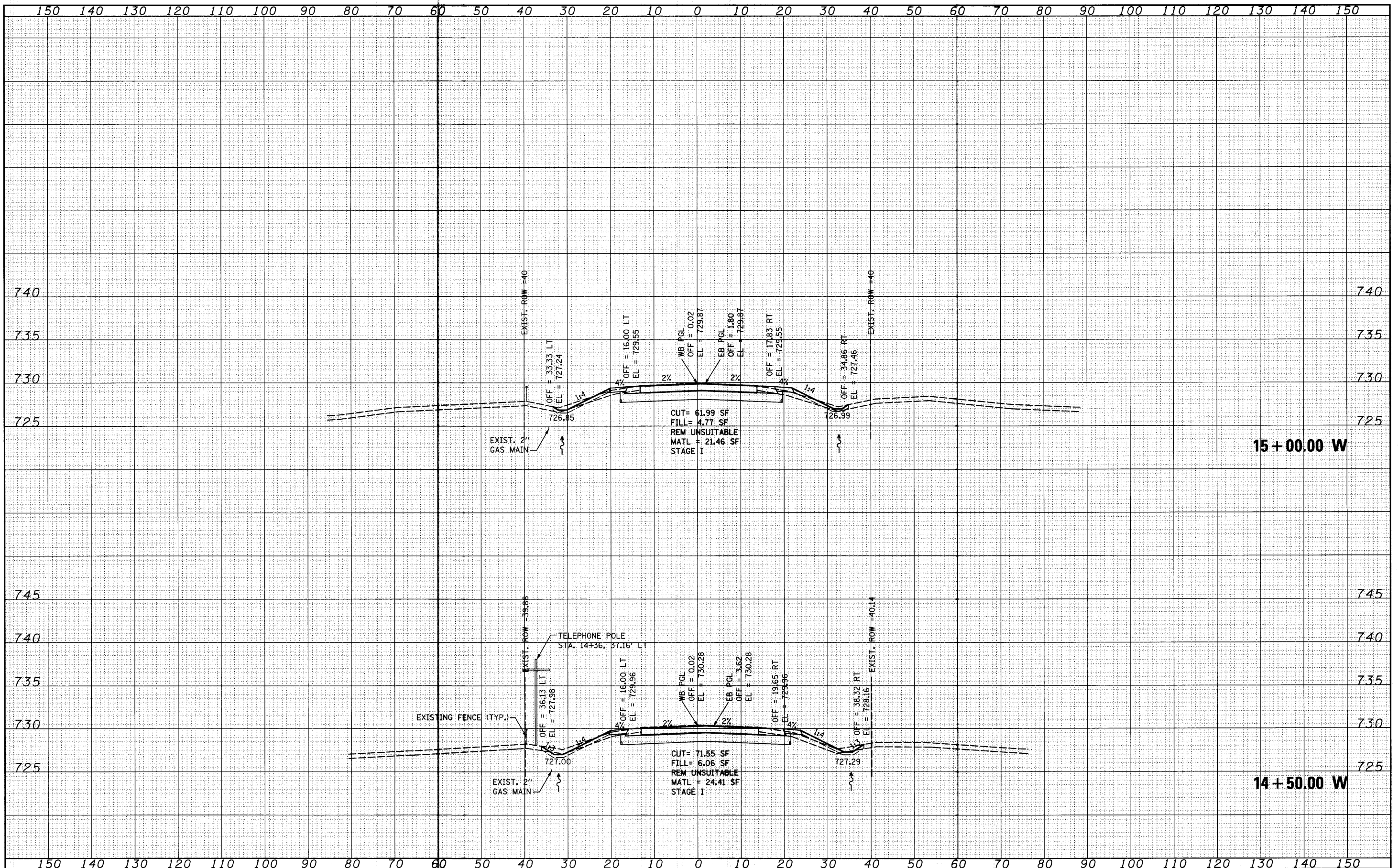
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FILE NAME =	USER NAME = saron	DESIGNED - MAG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WADSWORTH ROAD CROSS SECTIONS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\\joi\1900-1999\1902\002\micro\cross section\101-ah-t-xssht-wadsworth.dgn		CHECKED - RKK	REVISED -			2661	02-00076-13-CH	LAKE	177	175
PLOT SCALE = 10.0000' / IN.		DRAWN - VLF	REVISED -			SCALE: SHEET NO. OF SHEETS STA. 13+50.00 TO STA. 14+00.00		CONTRACT NO. 63457		
PLOT DATE = 4/1/2012		CHECKED - RKK	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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FILE NAME =
 USER NAME = saron
 DESIGNED - MAG
 CHECKED - RKK
 DRAWN - VLF
 CHECKED - RKK
 PLOT SCALE = 10.0000' / IN.
 PLOT DATE = 4/1/2010

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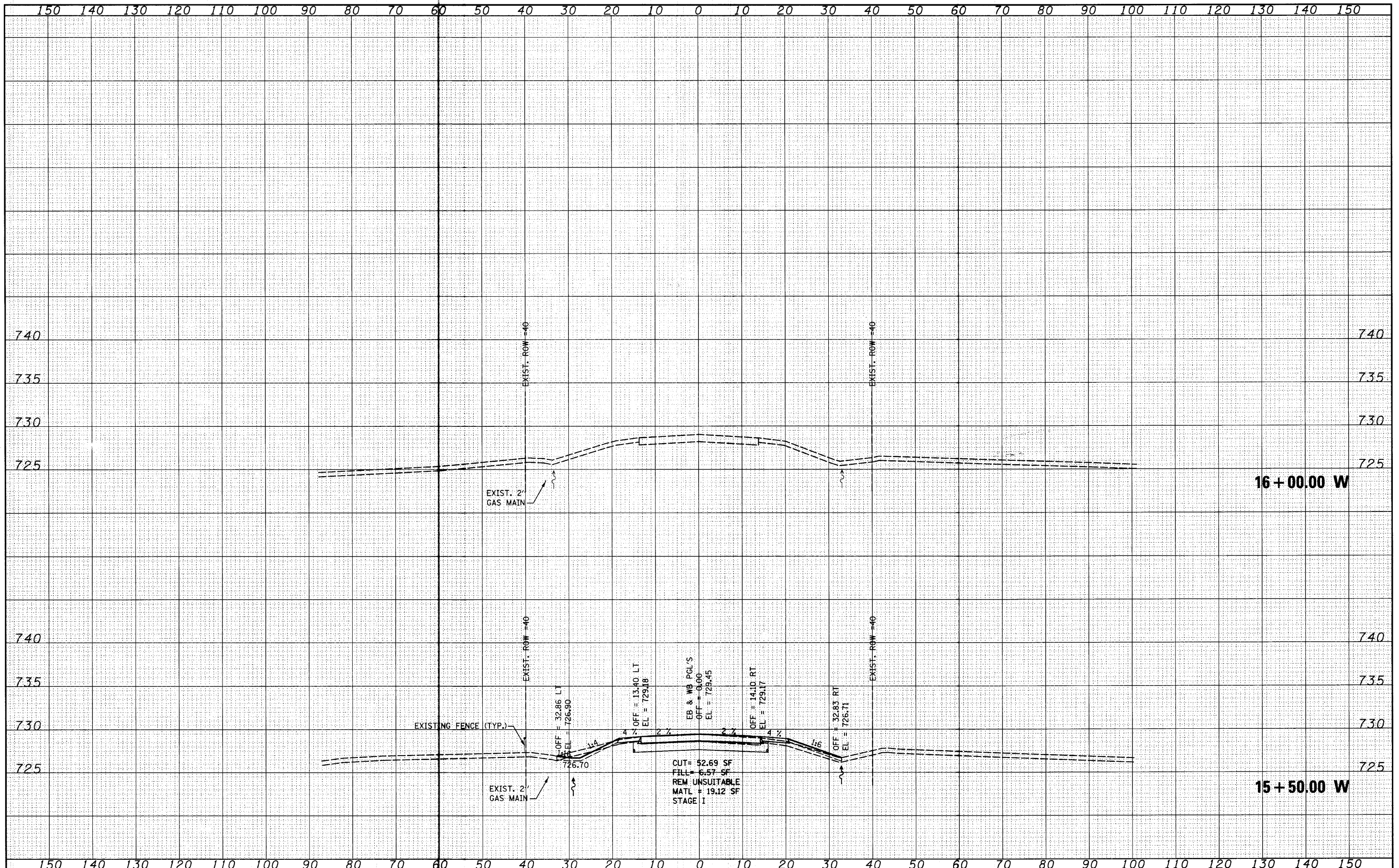
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

WADSWORTH ROAD CROSS SECTIONS
 SCALE: SHEET NO. OF SHEETS STA. 14+50.00 TO STA. 15+00.00

F.A. RTE. 2661	SECTION 02-00076-13-CH	COUNTY LAKE	TOTAL SHEETS 177	SHEET NO. 176
CONTRACT NO. 63457				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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NOTE BOOK	
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FILE NAME =
 USER NAME = saron
 DESIGNED - MAG
 CHECKED - RKK
 DRAWN - VLF
 CHECKED - RKK
 PLOT SCALE = 10,000' / IN.
 PLOT DATE = 4/1/2012

DESIGNED - MAG
 CHECKED - RKK
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

WADSWORTH ROAD CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 15+50.00 TO STA. 16+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	02-00076-13-CH	LAKE	177	177
CONTRACT NO. 63457				

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