

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G & 12) 1-N-1	LAKE	70	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

F.A.P 342 IL. RTE. 120
AT HUNT CLUB ROAD
SECTION (G & 12) 1-N-1

CHANNELIZATION

PROJECT: HSIP-0342(007)

LAKE COUNTY

C-91-072-05

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE PROJECT IS LOCATED IN THE VILLAGE OF GURNEE.

TRAFFIC DATA

- IL ROUTE 120

WEST LEG 2003 ADT=27,800

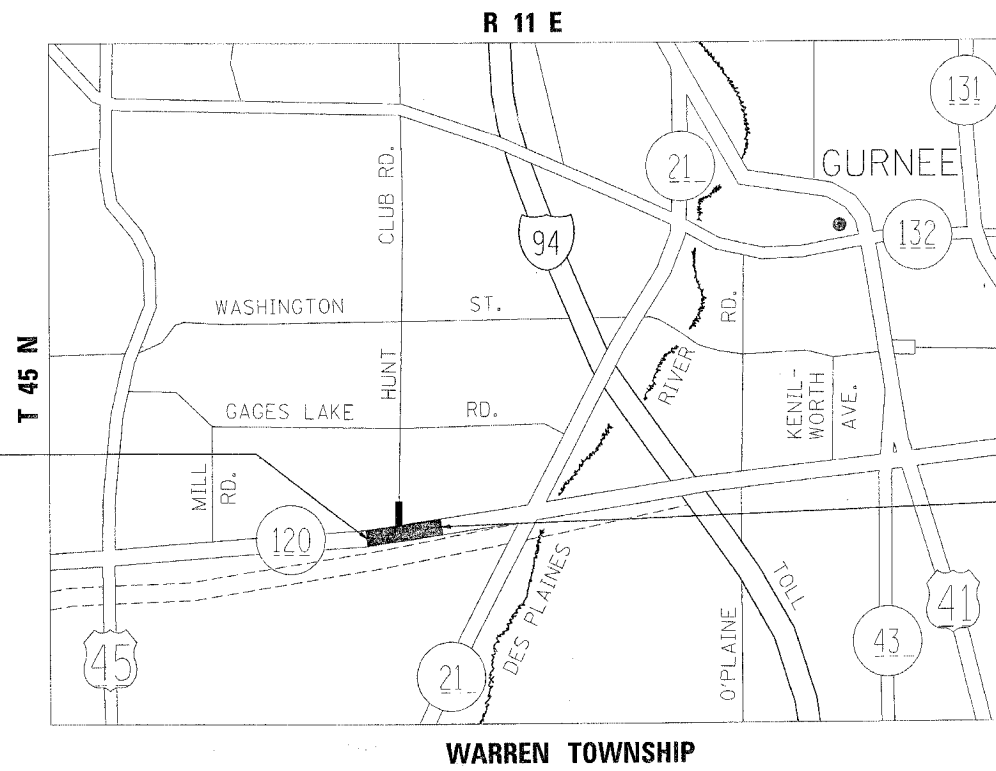
EAST LEG 2001 ADT=32,700

SPEED LIMIT=55 MPH

- HUNT CLUB ROAD

2000 ADT=17,800

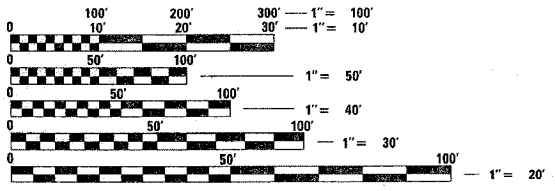
SPEED LIMIT=40 MPH



PROJECT BEGINS
STATION 91 + 66

PROJECT ENDS
STATION 110 + 00

GROSS & NET LENGTH=1834 LF=0.347 MILE



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

CONTRACT NO. 62883

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED October 10, 2006

Diane O'Keefe, Ed
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 8, 2006
Eric E. Hamm, PE
ENGINEER OF DESIGN AND ENVIRONMENT

December 8, 2006
Milton R. Sees, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

DISTRICT ONE- DESIGN - PLAN PREPARATION ENGINEER:
KEN ENG / ROBERT BORO (847) 705-4178

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G&I)H-N-1	LAKE	70	2
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 40 MM (1 1/2 INCHES) WHERE THE SPEED LIMIT IS 80 KM/H (45 MPH) OR LESS AND 25 MM (1 INCH) WHERE THE SPEED LIMIT IS GREATER THAN 80 KM/H (45 MPH). WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 75 MM (3 INCHES) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.

PRIOR TO EMBANKMENT PLACEMENT, ALL VEGETATION, LOOSE MATERIAL, AND UNSTABLE MATERIAL SHOULD BE REMOVED TO DEPTH ENCOUNTERED AND REPLACED WITH SUITABLE EMBANKMENT MATERIAL. ANY EMBANKMENT WIDENING ON EXISTING SLOPES SHOULD BE BENCHED IN ACCORDANCE WITH ARTICLE 205.04 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE A FIELD LABORATORY FOR USE FOR ANY ON SITE TESTING BY THE ENVIRONMENTAL FIRM. NO TESTING OF ANY KIND, CONTAMINATED OR NON-CONTAMINATED FLUID OR SOLID SHALL BE PERMITTED IN THE ENGINEER'S FIELD OFFICE.

THE RESIDENT ENGINEER SHALL CONTACT MS. DEBBIE HANLON AREA TRAFFIC FIELD ENGINEER AT (847) 438-2300 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKING.

THE CONTRACTOR SHALL BE REQUIRED TO COMPLETE ALL PAVEMENT PATCHING AFTER THE BITUMINOUS SURFACE REMOVAL OPERATION.

ALL PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE IMPROVEMENT ACCORDING TO DISTRICT 1 TYPICAL PAVEMENT MARKING.

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED THROUGHOUT THE IMPROVEMENT ACCORDING TO THE DISTRICT STANDARDS AS NOTED IN THE DETAIL.

THE RESIDENT ENGINEER SHALL VERIFY THE LOCATIONS OF ALL EXISTING PAVEMENT MARKINGS PRIOR TO MILLING OR RESURFACING.

PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III AND ITS REMOVAL SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKING.

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, STANDARDS, AND GENERAL NOTES
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6-8	TYPICAL SECTIONS
9	SCHEDULES OF QUANTITIES
10	ALIGNMENT, TIES AND BENCHMARKS
11-16	ROADWAY PLAN AND PROFILE
17-19	SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
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22-23	EXISTING DRAINAGE AND UTILITY PLANS
24-28	DRAINAGE PLANS AND PROFILE
29-30	PLATS OF HIGHWAYS
31-32	PAVEMENT MARKING PLANS
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35-43	TRAFFIC SIGNAL PLANS
44-45	DRY LAND BRIDGE INFORMATION
46-60	DISTRICT DETAILS
61-70	CROSS SECTIONS

LIST OF STATE STANDARDS

STANDARD NO.	DESCRIPTION
000001	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001	TEMPORARY EROSION CONTROL SYSTEMS
442201	CLASS C AND D PATCHES
482006	HMA SHOULDER ADJACENT TO RIGID PAVEMENT
482011	HMA SHOULDER STRIPS/SHOULDER WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
542301	PRECAST REINFORCED CONCRETE FLARED END SECTION
542306	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
602001	CATCH BASIN, TYPE A
602011	CATCH BASIN, TYPE C
602301	INLET, TYPE A
602401	MANHOLE, TYPE A
602601	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
604001	FRAME AND LIDS, TYPE 1
604036	GRATE, TYPE B
701101	OFF-ROAD OPERATION, MULTILANE LESS THEN 4.5 M (15') AWAY FOR SPEEDS ≥ 45
701426	LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPERATION FOR SPEEDS > 45 MPH
701601	URBAN LANE CLOSURE, MULTILANE 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701801	LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701701	URBAN LANE CLOSURE, MULTILANE INTERSECTION
702001	TRAFFIC CONTROL DEVICES
720001	SIGN PANEL MOUNTING DETAILS
780001	TYPICAL PAVEMENT MARKINGS
805001	ELECTRICAL SERVICE INSTALLATION DETAILS
814001	CONCRETE HANDHOLES
814006	DOUBLE HANDHOLES
857001	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
877001	STEEL MAST ARM ASSEMBLY AND POLE
878001	CONCRETE FOUNDATION DETAILS
880006	TRAFFIC SIGNAL MOUNTING DETAILS
886001	DETECTOR LOOP INSTALLATIONS
886006	TYPICAL LAYOUT FOR DETECTION LOOPS
805001	ELECTRICAL SERVICE INSTALLATION DETAILS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ROUTE 120 AT HUNT CLUB ROAD
INDEX OF SHEETS
LIST OF STATE STANDARDS
PLAN NOTES

SCALE: VERT. : NONE
 HORIZ. : NONE
 DATE: _____ DRAWN BY: _____
 CHECKED BY: _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G&I2) 1-N-1	LAKE	70	3
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED 10% STATE URBAN 1000-IA				
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	154	154				
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	128	128				
20200100	EARTH EXCAVATION	CU YD	1896	1896				
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	2186	2186				
20400800	FURNISHED EXCAVATION	CU YD	292	292				
20700420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	329	329				
20800150	TRENCH BACKFILL	CU YD	590	590				
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	14572	14572				
25000210	SEEDING, CLASS 2A	ACRE	2.1	2.1				
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	270	270				
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	270	270				
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	270	270				
25100630	EROSION CONTROL BLANKET	SQ YD	14572	14572				
25200110	SODDING, SALT TOLERANT	SQ YD	4397	4397				
25200200	SUPPLEMENTAL WATERING	UNIT	44	44				
28000300	TEMPORARY DITCH CHECKS	EACH	16	16				
28000400	PERIMETER EROSION BARRIER	FOOT	3558	3558				
28000500	INLET AND PIPE PROTECTION	EACH	7	7				
28100107	STONE RIPRAP, CLASS A4	SQ YD	9	9				
28200200	FILTER FABRIC	SQ YD	9	9				
31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	2080	2080				
35501324	HOT-MIX ASPHALT BASE COURSE, 10"	SQ YD	2080	2080				
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	7	7				
40600300	AGGREGATE (PRIME COAT)	TON	35	35				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGWAYS	TON	1.8	1.8				
40600895	CONSTRUCTING TEST STRIP	EACH	1	1				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	149	149				
40601005	HOT-MIX ASHHALT REPLACEMENT OVER PATCHES	TON	6.7	6.7				

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED 10% STATE URBAN 1000-IA				
40603240	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	680	680				
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	1725	1725				
42001300	PROTECTIVE COAT	SQ YD	902	902				
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	13315	13315				
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	2209	2209				
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	979	979				
44002216	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 4"	SQ YD	30	30				
44004000	PAVED DITCH REMOVAL	FOOT	145	145				
44004250	PAVED SHOULDER REMOVAL	SQ YD	1013	1013				
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	30	30				
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	5863	5863				
50104400	CONCRETE HEADWALL REMOVAL	EACH	4	4				
50105220	PIPE CULVERT REMOVAL	FOOT	30	30				
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	2	2				
54213666	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 21"	EACH	4	4				
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2	2				
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	3	3				
54247150	GRATING FOR CONCRETE FLARED END SECTION 30"	EACH	1	1				
542A0235	PIPE CULVERTS, CLASS A, TYPE 1 30"	FOOT	38	38				
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	79	79				
550A0140	STORM SEWERS, CLASS A, TYPE 1 30"	FOOT	85	85				
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	41	41				
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	594	594				
550A0400	STORM SEWERS, CLASS A, TYPE 2 21"	FOOT	132	132				
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	43	43				
55100500	STORM SEWER REMOVAL 12"	FOOT	581	581				

* SPECIALTY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

10/14/2006 10:14:30 AM

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G&I) 1-N-1	LAKE	70	4
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		90% FED 10% STATE URBAN I000-IA				
55101400	STORM SEWER REMOVAL 30"	FOOT	10	10				
552A0800	STORM SEWERS JACKED IN PLACE, CLASS A 21"	FOOT	156	156				
60107600	PIPE UNDERDRAINS 4"	FOOT	35	35				
60200805	CATCH BASINS, TYPE A, 4' -DIAMETER, TYPE 8 GRATE	EACH	2	2				
60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	1	1				
60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	2	2				
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	2	2				
60255500	MANHOLES TO BE ADJUSTED	EACH	1	1				
60255700	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	1	1				
60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	2	2				
60260400	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	1				
60500060	REMOVING INLETS	EACH	1	1				
60603300	GUTTER OUTLET	EACH	1	1				
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6. 24	FOOT	777	777				
60608521	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2. 24	FOOT	991	991				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8				
67100100	MOBILIZATION	L SUM	1	1				
70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1				
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	13	13				
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	1809	1809				
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	471.9	471.9				
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	7074	7074				
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	2503	2503				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		90% FED 10% STATE URBAN I000-IA	90% FED. 6.7% STATE 3.3% COUNTY TRAFFIC Y031-1F	OPTICOM VILLAGE OF GURNEE 100% Y031-3D		
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	108	108				
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	121	121				
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	3805	3805				
72000200	SIGN PANEL - TYPE 2	SQ FT	31.75		31.75			
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	471.9	471.9				
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	7074	7074				
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2503	2503				
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	108	108				
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	121	121				
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	85	85				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	18	18				
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	624		624			
81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	165		165			
81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	65		65			
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	280		280			
81400100	HANDHOLE	EACH	3		3			
81400200	HEAVY-DUTY HANDHOLE	EACH	3		3			
81400300	DOUBLE HANDHOLE	EACH	1		1			
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	934		934			
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1		1			
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	800			800		
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3231		3231			

* SPECIALTY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

10/14/2006 10:14:20 AM

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G&I2) 1-N-1	LAKE	70	5
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		90% FED 10% STATE URBAN I000-IA	90% FED. 6.7% STATE 3.3% COUNTY TRAFFIC Y031-1F	OPTICOM VILLAGE OF GURNEE 100% Y031-3D
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1275		1275	
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	10		10	
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2		2	
87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1		1	
87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	2		2	
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	4		4	
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	4		4	
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	30		30	
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15		15	
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8		8	
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2		2	
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2		2	
88500100	INDUCTIVE LOOP DETECTOR	EACH	10		10	
88600100	DETECTOR LOOP, TYPE I	FOOT	610		610	
88700200	LIGHT DETECTOR	EACH	3			3
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1			1
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1	
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1	
A2006516	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	4	4		
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	77.1	77.1		
X0322584	REVTMENT MAT REMOVAL	SQ YD	301	301		
X4067107	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	693	693		
X6063600	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24	FOOT	154	154		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		90% FED 10% STATE URBAN I000-IA	90% FED. 6.7% STATE 3.3% COUNTY TRAFFIC Y031-1F	OPTICOM VILLAGE OF GURNEE 100% Y031-3D
X7030130	PAVEMENT MARKING TAPE, TYPE III 4", SPECIAL	FOOT	9896	9896		
X7030140	PAVEMENT MARKING TAPE, TYPE III 6", SPECIAL	FOOT	971	971		
X7030170	PAVEMENT MARKING TAPE, TYPE III LETTER & SYMBOL, SPECIAL	FOOT	548	548		
* X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	1		1	
* X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	752		752	
* X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	800			800
XX004068	PORTLAND CEMENT CONCRETE MEDIAN 5"	SQ FT	3110	3110		
XX006198	IMPACT ATTENUATOR, TEMPORARY	EACH	4	4		
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
Δ Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	6	6		
Z0027800	GEOTECHNICAL FABRIC	SQ YD	176	176		
⊙ Z0076600	TRAINEES	HOOR				
XZ068050	STEEL CASINGS 27"	FOOT	130	130		

⊙ Y080
 Δ NON-PARTICIPATING
 * SPECIALTY ITEMS

REVISIONS	
NAME	DATE

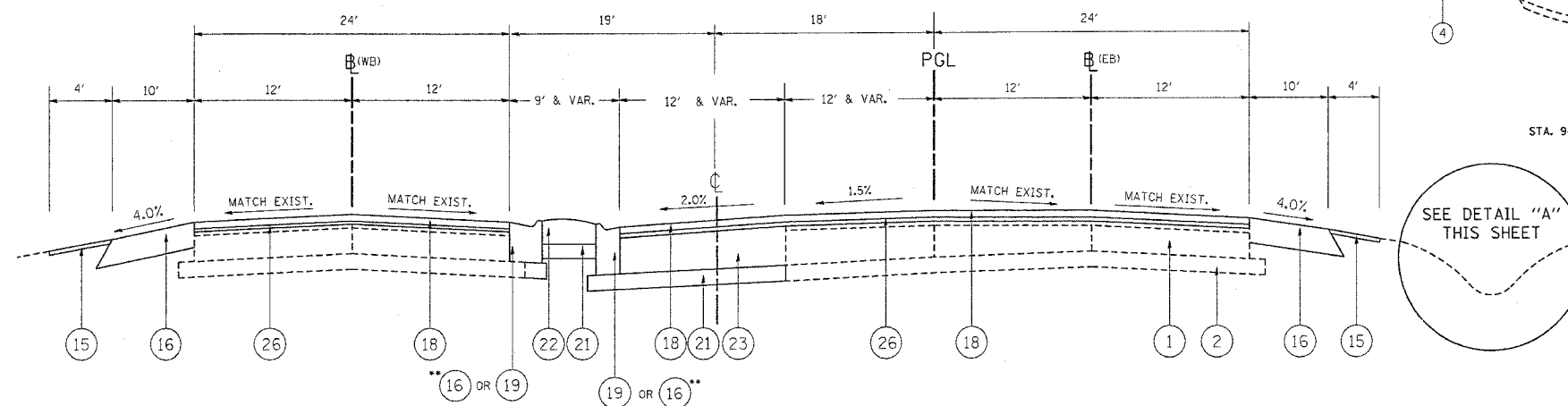
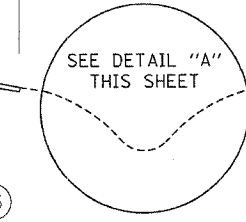
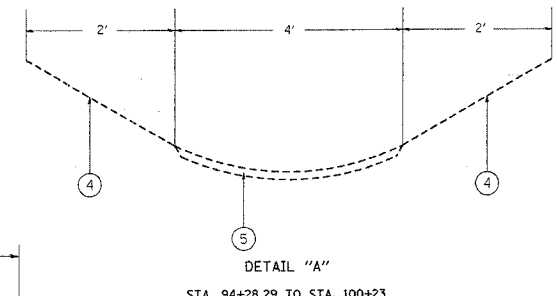
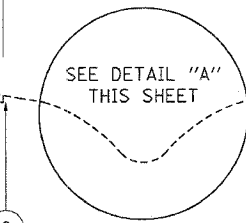
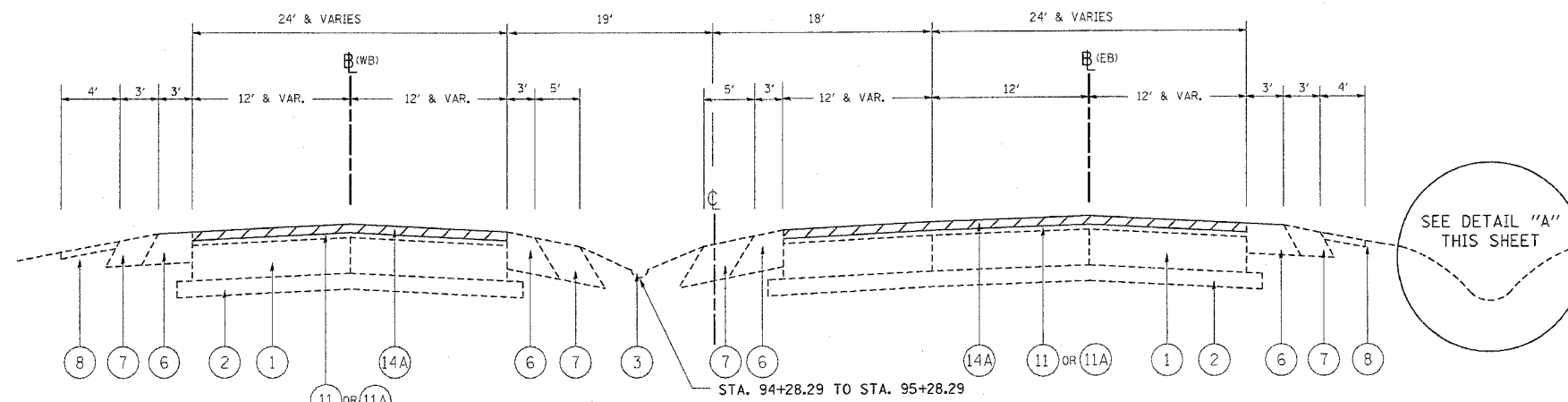
ILLINOIS DEPARTMENT OF TRANSPORTATION
 SUMMARY OF QUANTITIES

10/14/2006

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G&I2) 1-N-1	LAKE	70	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

LEGEND:

- ① EXISTING PCC PAVEMENT, 10"
- ② EXISTING AGGREGATE BASE COURSE, 4"
- ③ EXISTING COMB. CURB & GUTTER, TYPE V
- ④ EXISTING GROUND
- ⑤ EXISTING FABRIC FORMED CONCRETE REVETMENT MATS
- ⑥ EXISTING HOT-MIX ASPHALT SHOULDER, 8"
- ⑦ EXISTING AGGREGATE SHOULDERS, TYPE B, 8"
- ⑧ EXISTING EROSION CONTROL BLANKET
- ⑨ EXISTING HOT-MIX ASPHALT BASE COURSE (MS 1200), 9"
- ⑩ EXISTING COMB. CONC. CURB & GUTTER REMOVAL
- ⑪ EXISTING HOT-MIX ASPHALT SURFACE COURSE, 4"
- ⑪A EXISTING HOT-MIX ASPHALT SURFACE COURSE, 2 3/4"
- ⑫ EXISTING PIPE UNDERDRAIN, 4"
- ⑬ EXISTING HOT-MIX ASPHALT SHOULDER, 4"
- ⑭ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (3/4" MIN. AND VARIES TO 2 1/2")
- ⑭A PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- ⑮ PROPOSED EROSION CONTROL BLANKET, SEEDING CL. 2A
- ⑯ PROPOSED HOT-MIX ASPHALT SHOULDER, 8"
- ⑰ PROPOSED POLY. HOT-MIX ASPHALT BINDER COURSE, IL-19, N90, VARIABLE DEPTH (2 1/4" MIN. AND VARIES TO 8")
- ⑱ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURF. COURSE MIX "F", N90, 1-3/4"
- ⑲ PROPOSED COMB. CONC. CURB & GUTTER, TYPE M.2-12
- ⑳ PROPOSED COMB. CONC. CURB & GUTTER, TYPE M.4-24
- ㉑ PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
- ㉒ PROPOSED CONCRETE MEDIAN SURFACE 5"
- ㉓ PROPOSED HOT-MIX ASPHALT BASE COURSE, 10"
- ㉔ PROPOSED COMB. CONC. CURB & GUTTER, TYPE B.6-24
- ㉕ PROPOSED PIPE UNDERDRAIN, 4"
- ㉖ PROPOSED POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"



SUBGRADE TREATMENT PLAN NOTES

POROUS GRANULAR EMBANKMENT, SUBGRADE (PGES) HAS BEEN RECOMMENDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH PGES AS DETERMINED BY THE GEOTECHNICAL ENGINEER. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

- 1- PROPOSED 12 INCH AGGREGATE SUBGRADE SUFFICIENT AT ALL STATIONS EXCEPT AS SHOWN.
- 2- DEPTH REFERS TO DEPTH OF REMEDIAL TREATMENT BELOW AGGREGATE SUBGRADE.
- 3- REPLACEMENT MATERIAL OR TREATMENT:

EMBANKMENT MATERIAL AND PLACEMENT IN ACCORDANCE WITH SECTIONS 205, 206, 507 AND 210
PGES- POROUS GRANULAR EMBANKMENT, SUBGRADE
FABRIC- GEOTECHNICAL FABRIC

LOCATION	DEPTH INCHS	TREATMENT WIDTH	TREATMENT MATERIAL
IL RTE. 120			
STA 96+00 TO STA 99+70 - EB	12 INCH	PROP. WIDENING	PGES
STA 107+48 TO STA 108+98 - WB	-	PROP. WIDENING	GEO. FABRIC

MIXTURE REQUIREMENTS		
PAY ITEM	AC TYPE	VOIDS
HOT-MIX ASPHALT SHOULDER, 8"	PG 58-22	2 % @ 30 GYR.
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (BINDER IL-19 MM)	PG 64-22 *	4 % @ 70 GYR.
CLASS D PATCHES (BINDER IL-19 MM)	PG 64-22 *	4 % @ 70 GYR.
POLY. HOT-MIX ASPHALT. CONC. BINDER CSE, IL-19, N90	SBS/SBR PG 70-22	4 % @ 90 GYR.
POLY. HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1-3/4"	SBS/SBR PG 70-22	4 % @ 90 GYR.
HOT-MIX ASPHALT BASE COURSE, 10"	PG 58-22	2 % @ 50 GYR.
POLY. LEVELING BINDER (MM), IL 4.75, N50, 3/4"	SBS/SBR PG76-28/22	4 % @ 50 GYR.

NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE IS 112 LBS/SQYD/IN
* NOTE 2: WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22

REVISIONS	
NAME	DATE

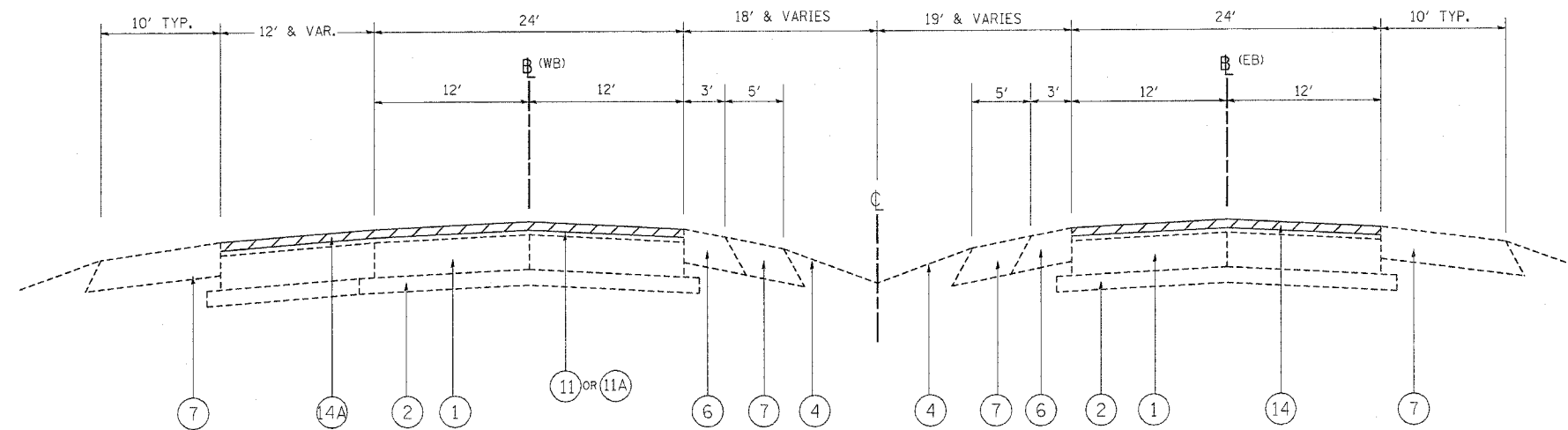
ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL CROSS SECTION
IL. RTE. 120 (BELVIDERE ROAD)
@ HUNT CLUB ROAD

SCALE: VERT. _____
HORIZ. _____

DRAWN BY _____
CHECKED BY _____

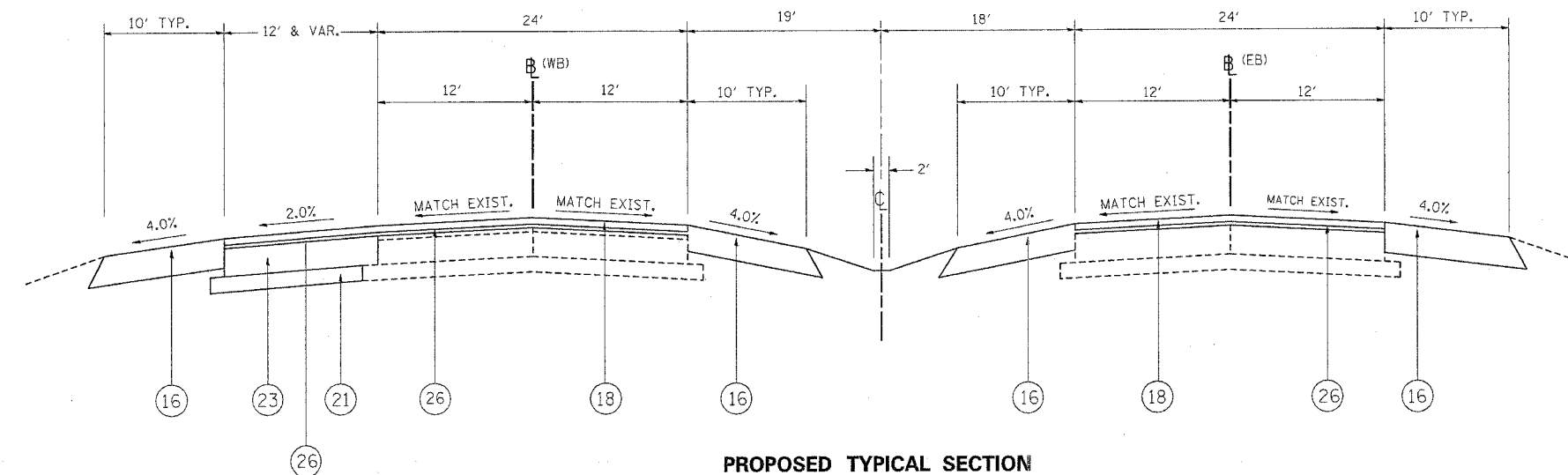
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G&I2) 1-N-1	LAKE	70	7
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXISTING TYPICAL SECTION

IL. RTE. 120 (BELVIDERE ROAD)
STA. 100+77 TO STA. 110+00



PROPOSED TYPICAL SECTION

IL. RTE. 120 (BELVIDERE ROAD)
STA. 100+77 TO STA. 110+00
** STA. 107+48 TO STA. 108+98

LEGEND:

- ① EXISTING PCC PAVEMENT, 10"
- ② EXISTING AGGREGATE BASE COURSE, 4"
- ③ EXISTING COMB. CURB & GUTTER, TYPE V
- ④ EXISTING GROUND
- ⑤ EXISTING FABRIC FORMED CONCRETE REVETMENT MATS
- ⑥ EXISTING HOT-MIX ASPHALT SHOULDER, 8"
- ⑦ EXISTING AGGREGATE SHOULDERS, TYPE B, 8"
- ⑧ EXISTING EROSION CONTROL BLANKET
- ⑨ EXISTING HOT-MIX ASPHALT BASE COURSE (MS 1200), 9"
- ⑩ EXISTING COMB. CONC. CURB & GUTTER REMOVAL
- ⑪ EXISTING HOT-MIX ASPHALT SURFACE COURSE, 4"
- ⑪A EXISTING HOT-MIX ASPHALT SURFACE COURSE, 2 3/4"
- ⑫ EXISTING PIPE UNDERDRAIN, 4"
- ⑬ EXISTING HOT-MIX ASPHALT SHOULDER, 4"
- ⑭ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (3/4" MIN. AND VARIES TO 2 1/2")
- ⑭A PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- ⑮ PROPOSED EROSION CONTROL BLANKET, SEEDING CL. 2A
- ⑯ PROPOSED HOT-MIX ASPHALT SHOULDER, 8"
- ⑰ PROPOSED POLY. HOT-MIX ASPHALT BINDER COURSE, IL-19, N90, VARIABLE DEPTH (2 1/4" MIN. AND VARIES TO 8")
- ⑱ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURF. COURSE MIX "F", N90, 1-3/4"
- ⑲ PROPOSED COMB. CONC. CURB & GUTTER, TYPE M.2-12
- ⑳ PROPOSED COMB. CONC. CURB & GUTTER, TYPE M.4-24
- ㉑ PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
- ㉒ PROPOSED CONCRETE MEDIAN SURFACE 5"
- ㉓ PROPOSED HOT-MIX ASPHALT BASE COURSE, 10"
- ㉔ PROPOSED COMB. CONC. CURB & GUTTER, TYPE B.6-24
- ㉕ PROPOSED PIPE UNDERDRAIN, 4"
- ㉖ PROPOSED POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"

** SEE SUBGRADE TREATMENT PLAN NOTES

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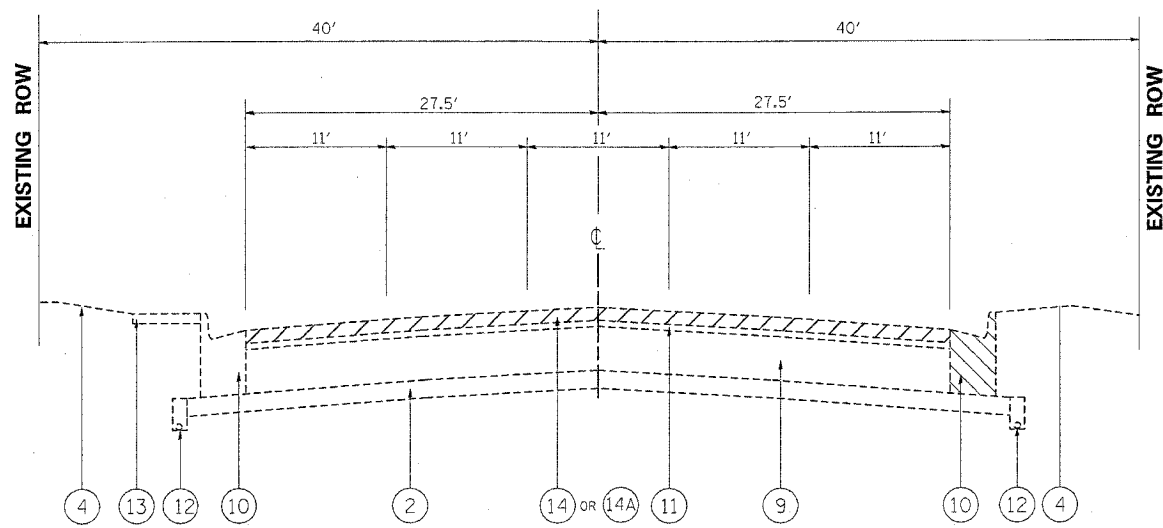
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL CROSS SECTION
IL. RTE. 120 (BELVIDERE ROAD)
@ HUNT CLUB ROAD

SCALE: VERT. / HORIZ.
DATE

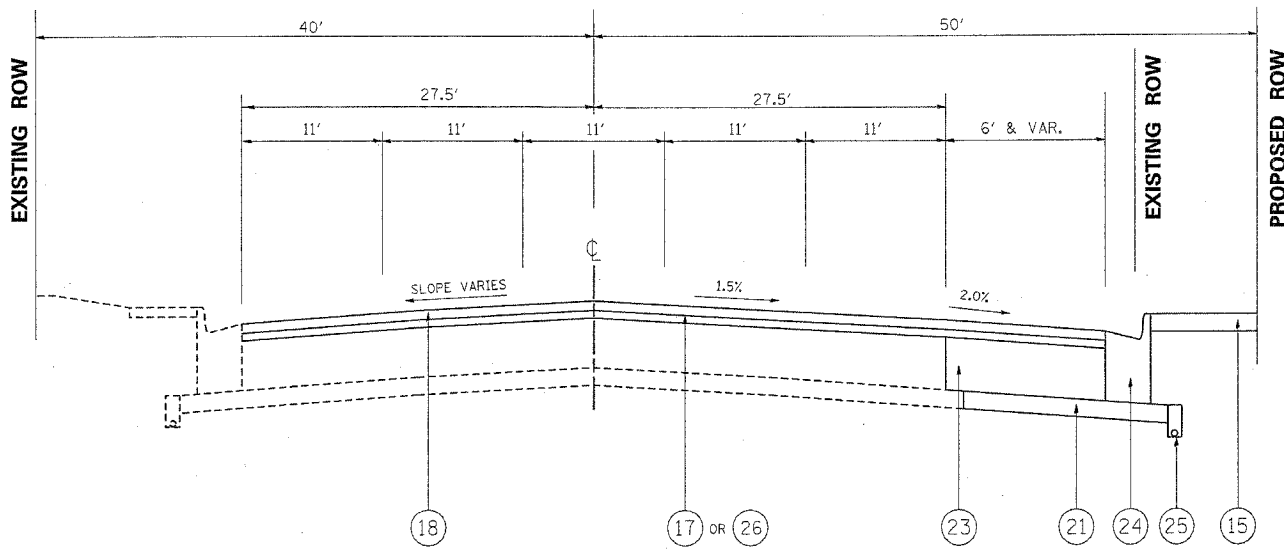
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G&12) 1-N-1	LAKE	70	8
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		



EXISTING TYPICAL SECTION

HUNT CLUB ROAD
STA. 10+00 TO STA. 16+75



PROPOSED TYPICAL SECTION

HUNT CLUB ROAD
STA. 10+00 TO STA. 16+75

* APPROXIMATE LOCATION OF VARIABLE MILLING
STA. 11+00 TO STA. 13+00

- LEGEND:**
- ① EXISTING PCC PAVEMENT, 10"
 - ② EXISTING AGGREGATE BASE COURSE, 4"
 - ③ EXISTING COMB. CURB & GUTTER, TYPE V
 - ④ EXISTING GROUND
 - ⑤ EXISTING FABRIC FORMED CONCRETE REVETMENT MATS
 - ⑥ EXISTING HOT-MIX ASPHALT SHOULDER, 8"
 - ⑦ EXISTING AGGREGATE SHOULDERS, TYPE B, 8"
 - ⑧ EXISTING EROSION CONTROL BLANKET
 - ⑨ EXISTING HOT-MIX ASPHALT BASE COURSE (MS 1200), 9"
 - ⑩ EXISTING COMB. CONC. CURB & GUTTER REMOVAL
 - ⑪ EXISTING HOT-MIX ASPHALT SURFACE COURSE, 4"
 - ⑫ EXISTING HOT-MIX ASPHALT SURFACE COURSE, 2 3/4"
 - ⑬ EXISTING PIPE UNDERDRAIN, 4"
 - ⑭ EXISTING HOT-MIX ASPHALT SHOULDER, 4"
 - ⑮ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (3/4" MIN. AND VARIES TO 2 1/2")
 - ⑯ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
 - ⑰ PROPOSED EROSION CONTROL BLANKET, SEEDING CL. 2A
 - ⑱ PROPOSED HOT-MIX ASPHALT SHOULDER, 8"
 - ⑲ PROPOSED POLY. HOT-MIX ASPHALT BINDER COURSE, IL-19, N90, VARIABLE DEPTH (2 1/4" MIN. AND VARIES TO 8")
 - ⑳ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURF. COURSE MIX "F", N90, 1-3/4"
 - ㉑ PROPOSED COMB. CONC. CURB & GUTTER, TYPE M.2-12
 - ㉒ PROPOSED COMB. CONC. CURB & GUTTER, TYPE M.4-24
 - ㉓ PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
 - ㉔ PROPOSED CONCRETE MEDIAN SURFACE 5"
 - ㉕ PROPOSED HOT-MIX ASPHALT BASE COURSE, 10"
 - ㉖ PROPOSED COMB. CONC. CURB & GUTTER, TYPE B.6-24
 - ㉗ PROPOSED PIPE UNDERDRAIN, 4"
 - ㉘ PROPOSED POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL CROSS SECTION
IL. RTE. 120 (BELVIDERE ROAD)
@ HUNT CLUB ROAD

SCALE: VERT. DATE
HORIZ. DRAWN BY CHECKED BY

PLOT DATE = 10/14/2008
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G&I2)1-N-1	LAKE	70	9
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

EARTHWORK SCHEDULE

RTE. 120 @ HUNT CLUB STATIONS	EARTH EXCAVATION PRE-STAGE (CU. YD)	UNSUITABLE MATERIAL (CU.YD.)	EXCAVATION USED AS EMBANKMENT (SHRINKAGE 15%) (CU.YD.)	EMBANKMENT PRE-STAGE (CU. YD.)	EARTH WORK BALANCE SURPLUS (+) OR SHORTAGE (-) (CU. YD.)
92+00 TO 110+00	1188	2138	1009	1287	-278
DRY LAND JACKING & RECIEVING PIT	695				
HUNT CLUB					
11+00 TO 16+00	13	48	11	25	-14
TOTAL	1896	2186	1020	1312	-292

TREE REMOVAL SCHEDULE

STATION	OFFSET/ SIDE (FEET)	TYPE	6 TO 15 UNIT DIAMETER	OVER 15 UNIT DIAMETER
106+25	90' R (WB)	WILLOW	15	
106+25	90' R (WB)	WILLOW	15	
106+25	90' R (WB)	WILLOW	15	
106+25	90' R (WB)	WILLOW	15	
106+25	90' R (WB)	WILLOW		24
106+65	78' R (WB)	WILLOW	12	
108+03	78' R (WB)	WILLOW	14	
108+03	78' R (WB)	WILLOW	14	
108+03	78' R (WB)	WILLOW	14	
108+03	78' R (WB)	WILLOW	14	
108+03	78' R (WB)	WILLOW		16
108+03	78' R (WB)	WILLOW		16
108+07	85' R (WB)	GREEN ASH	12	
109+20	62' R (WB)	WILLOW		16
109+20	62' R (WB)	WILLOW		16
109+20	62' R (WB)	WILLOW		20
109+20	62' R (WB)	WILLOW		20
109+20	62' R (WB)	WILLOW	14	
TOTALS			154	128

NOTE:

A THICKNESS OF 4 INCHES OF TOPSOIL STRIPPING SHALL BE USED FOR REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL.

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REVISIONS	
NAME	DATE

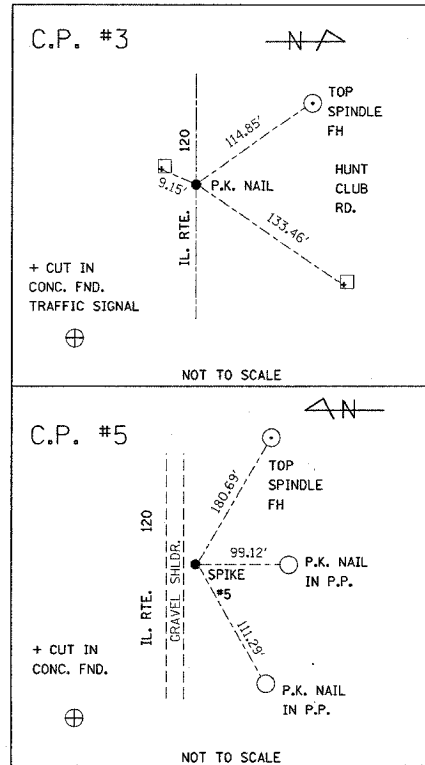
ILLINOIS DEPARTMENT OF TRANSPORTATION

ROUTE 120
@ HUNT CLUB ROAD
SCHEDULE OF QUANTITIES

SCALE: VERT. DATE

DRAWN BY
CHECKED BY

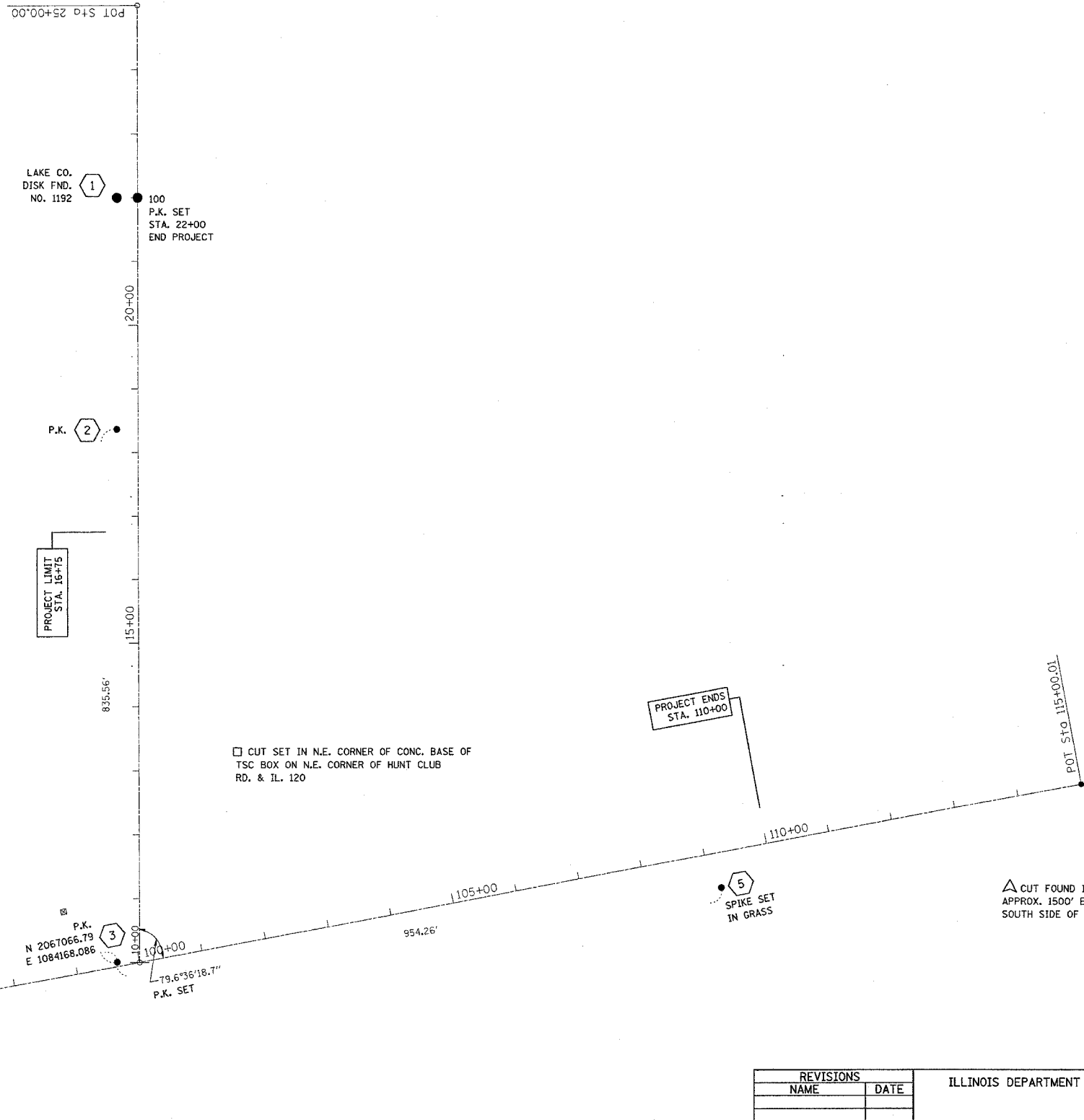
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G & 12) 1-N-1	LAKE	10	10
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



EXIST. CURVE E-IL120-1
 PI STA. = 89+27.49
 $\Delta = 4^\circ 19' 05''$ (LT)
 $D = 0^\circ 59' 28''$
 $R = 5,781.16'$
 $T = 217.95'$
 $L = 435.69'$
 $E = 4.11'$
 $e =$
 T.R. =
 S.E. RUN =
 P.C. STA. = 87+09.54
 P.T. STA. = 91+45.23

ILLINOIS ROUTE 120
 (BELVIDERE ROAD)

HUNT CLUB ROAD



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 USER NAME = gpatton

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RTE. 120 @ HUNT CLUB RD.
 ALIGNMENT & TIES SHEET

SCALE: VERT. 1"=100'
 HORIZ.
 DATE 10/6/2006

DRAWN BY
 CHECKED BY

*REF-TOPOOI
*REF-PPOI

CONTRACT NO. 62883

F.A.P. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G & 12) 1-N-1	LAKE	10	11
STA. 88+00		TO STA. 103+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PIN # 07-33-100-001
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXIST. CURVE E-IL120-1
PI STA. = 89+27.49
 $\Delta = 4^\circ 13' 05''$ (LT)
 $D = 0^\circ 59' 28''$
 $R = 5,781.16'$
 $T = 217.95'$
 $L = 435.69'$
 $E = 4.11'$
 $\theta =$
 $T.R. =$
S.E. RUN =
P.C. STA. = 87+09.54
P.T. STA. = 91+45.23

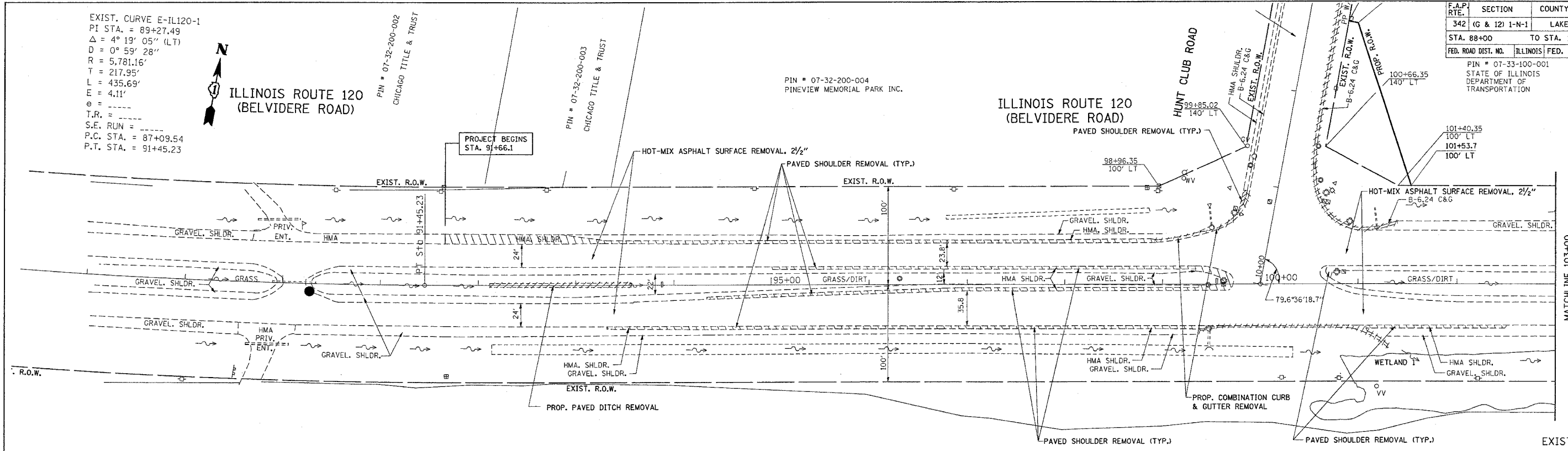


ILLINOIS ROUTE 120
(BELVIDERE ROAD)

PIN # 07-32-200-002
CHICAGO TITLE & TRUST

PIN # 07-32-200-003
CHICAGO TITLE & TRUST

PIN # 07-32-200-004
PINEVIEW MEMORIAL PARK INC.

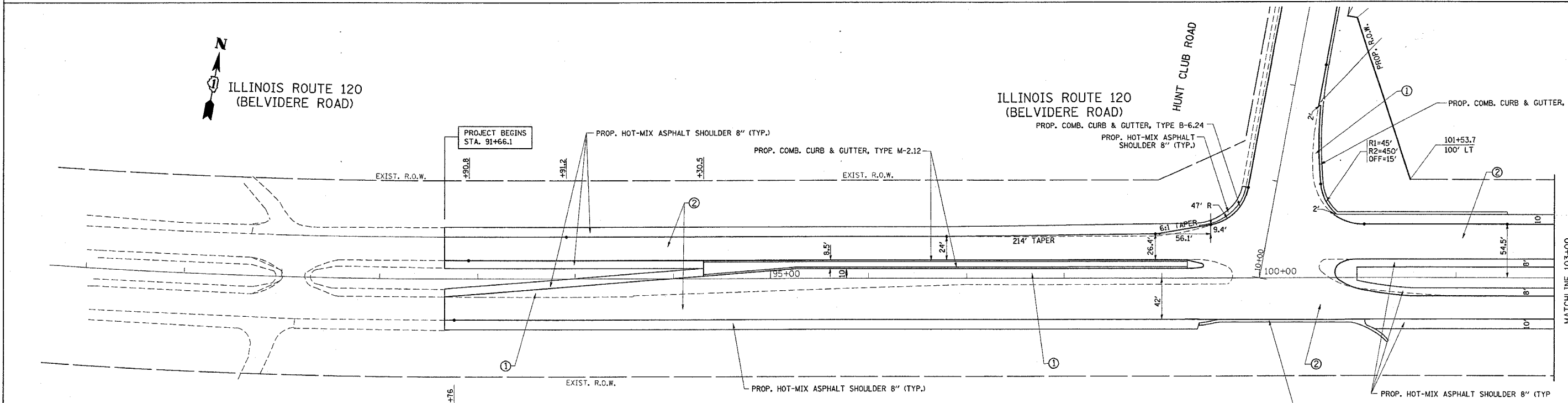


EXISTING



ILLINOIS ROUTE 120
(BELVIDERE ROAD)

PROJECT BEGINS
STA. 91+66.1



PROPOSED

- ① IL 120 (WIDENING)
PROP. SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
PROP. HOT-MIX ASPHALT BASE COURSE, 10"
PROP. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50, 3/4"
- ② RESURFACING FOR EXISTING PAVEMENT
PROP. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SUPERPAVE, MIX "F", N90, 1 3/4"
PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD) SUPERPAVE, IL-4.75, N50, 3/4"

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
IL. RTE. 120 AT HUNT CLUB RD.

SCALE: VERT. 1"=50'
HORIZ. 1"=50'
DATE 10/16/2006

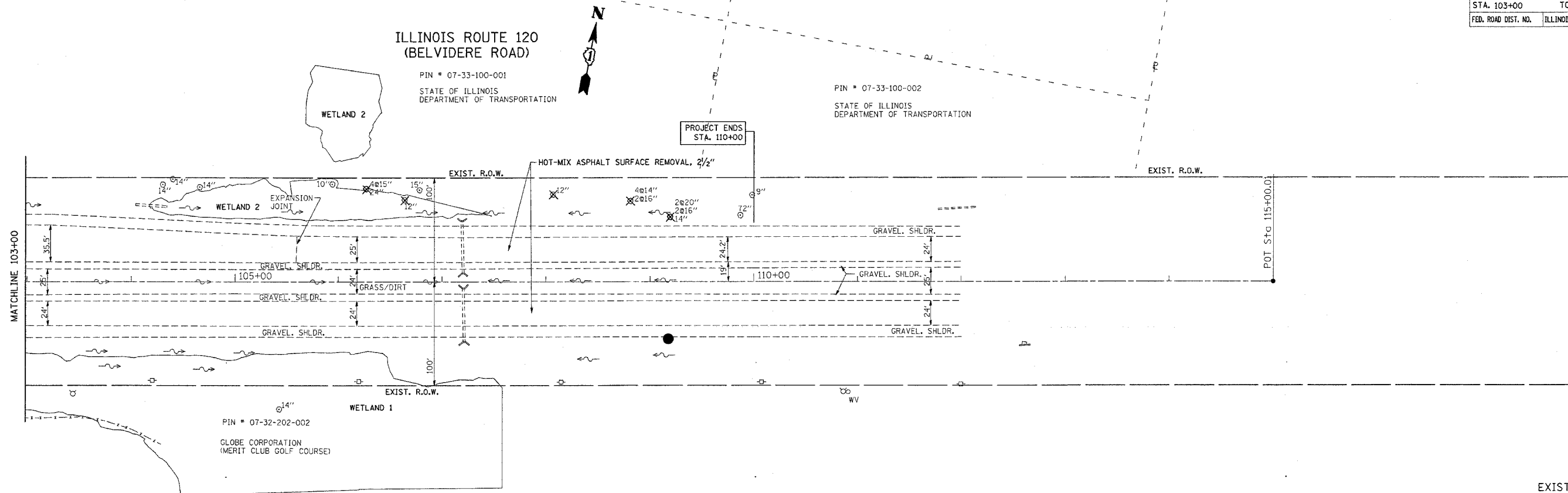
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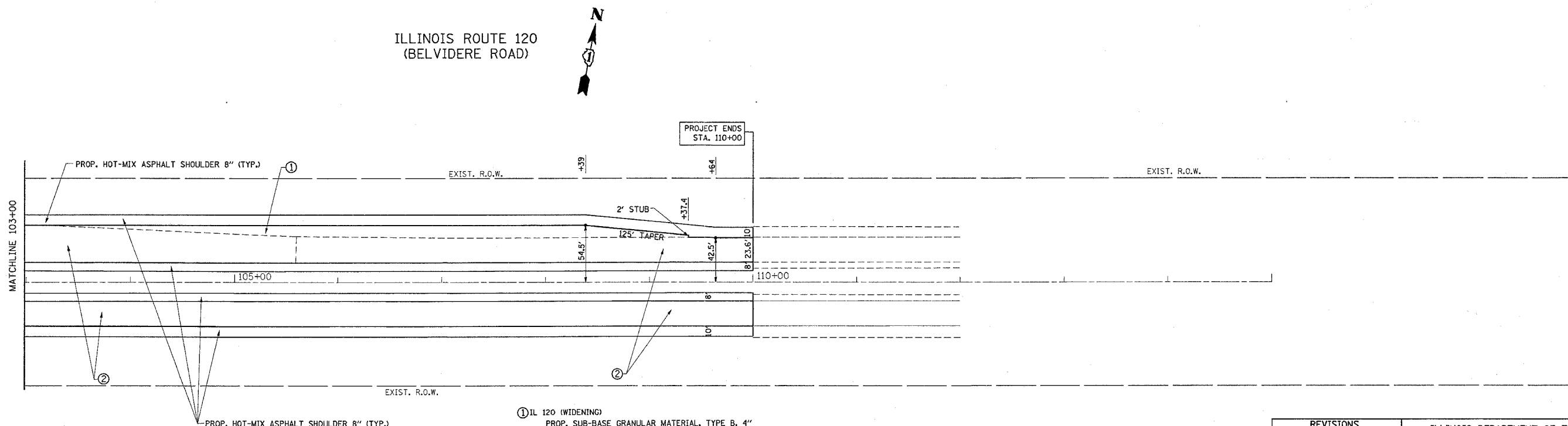
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*REF-PP02

CONTRACT NO. 6286

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G & 12) 1-N-1	LAKE	70	12
STA. 103+00		TO STA. 112+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



EXISTING



PROPOSED

- ① IL 120 (WIDENING)
 - PROP. SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
 - PROP. HOT-MIX ASPHALT BASE COURSE, 10"
 - PROP. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 1/4"
 - PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50, 3/4"
- ② RESURFACING FOR EXISTING PAVEMENT
 - PROP. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SUPERPAVE, MIX "F", N90, 1 1/4"
 - PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD) SUPERPAVE, IL-4.75, N50, 3/4"

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
IL. RTE. 120 AT HUNT CLUB RD.

SCALE: VERT. 1"=50'
HORIZ. 1"=50'

DATE 10/16/2005

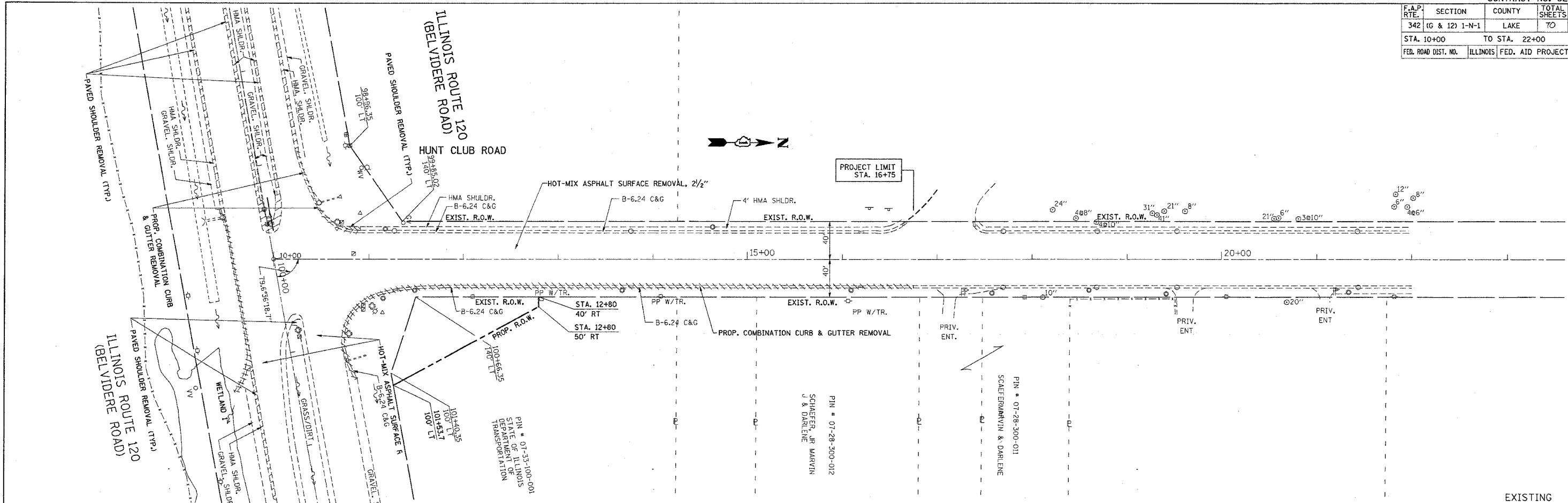
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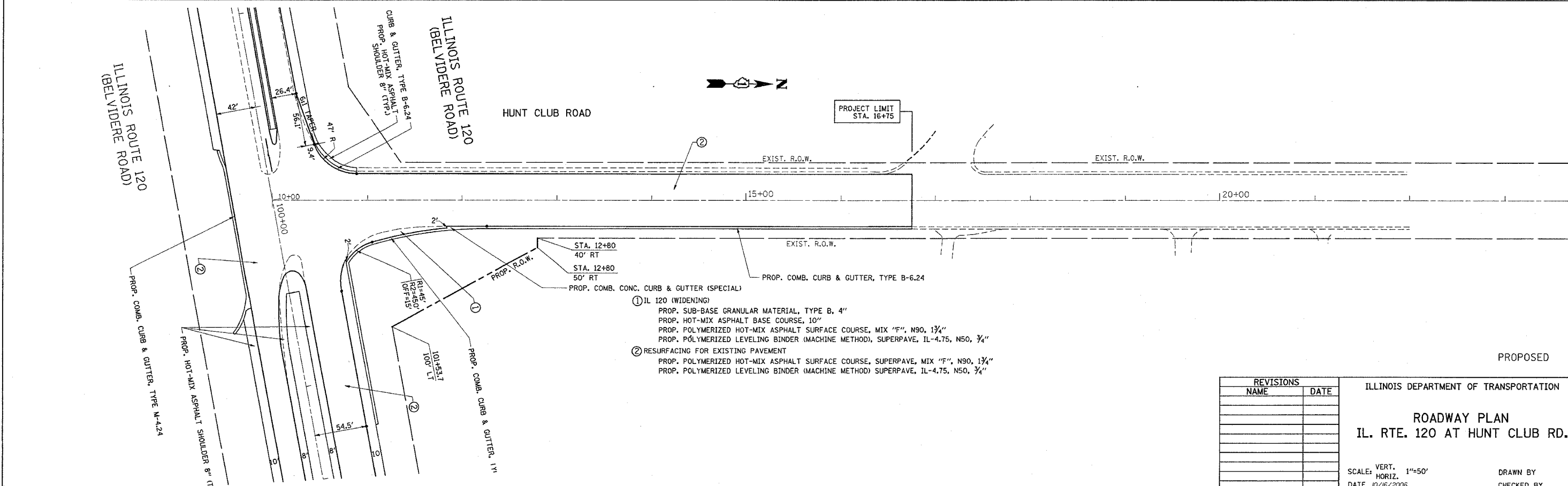
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CONTRACT NO. 6288

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
342	IG & 12) 1-N-1	LAKE	70
STA. 10+00		TO STA. 22+00	
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT



EXISTING



PROPOSED

- ① IL 120 (WIDENING)
 - PROP. SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
 - PROP. HOT-MIX ASPHALT BASE COURSE, 10"
 - PROP. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
 - PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50, 3/4"
- ② RESURFACING FOR EXISTING PAVEMENT
 - PROP. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SUPERPAVE, MIX "F", N90, 1 3/4"
 - PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD) SUPERPAVE, IL-4.75, N50, 3/4"

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ROADWAY PLAN
IL. RTE. 120 AT HUNT CLUB RD.

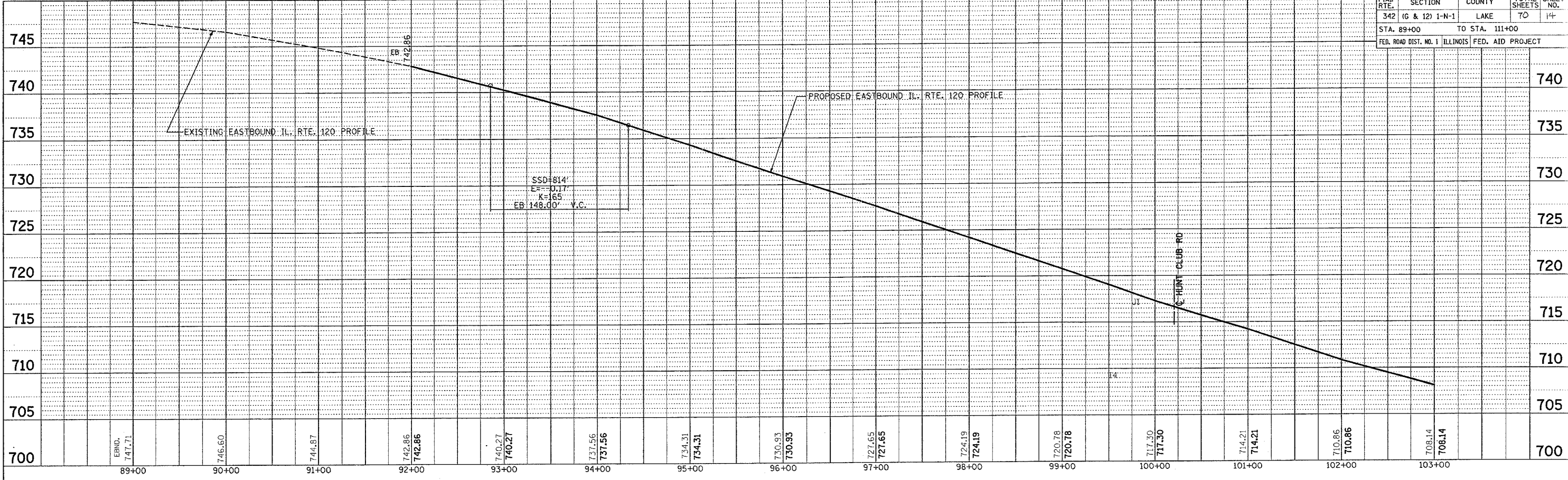
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DATE 10/16/2005
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CHECKED BY

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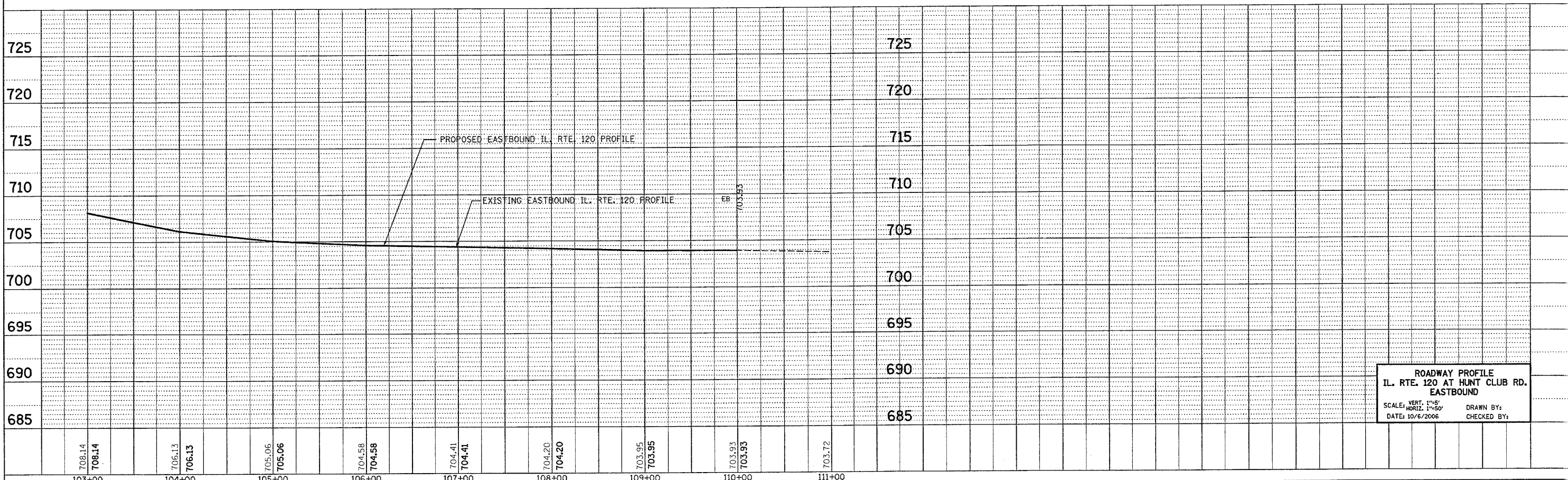
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CONTRACT NO. 62883				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342 (G & 12)	1-N-1	LAKE	70	14
STA. 89+00		TO STA. 111+00		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PLAN	SURVEYED	BY	DATE
NO.	DATE		



PROFILE	SURVEYED	BY	DATE
NO.	DATE		

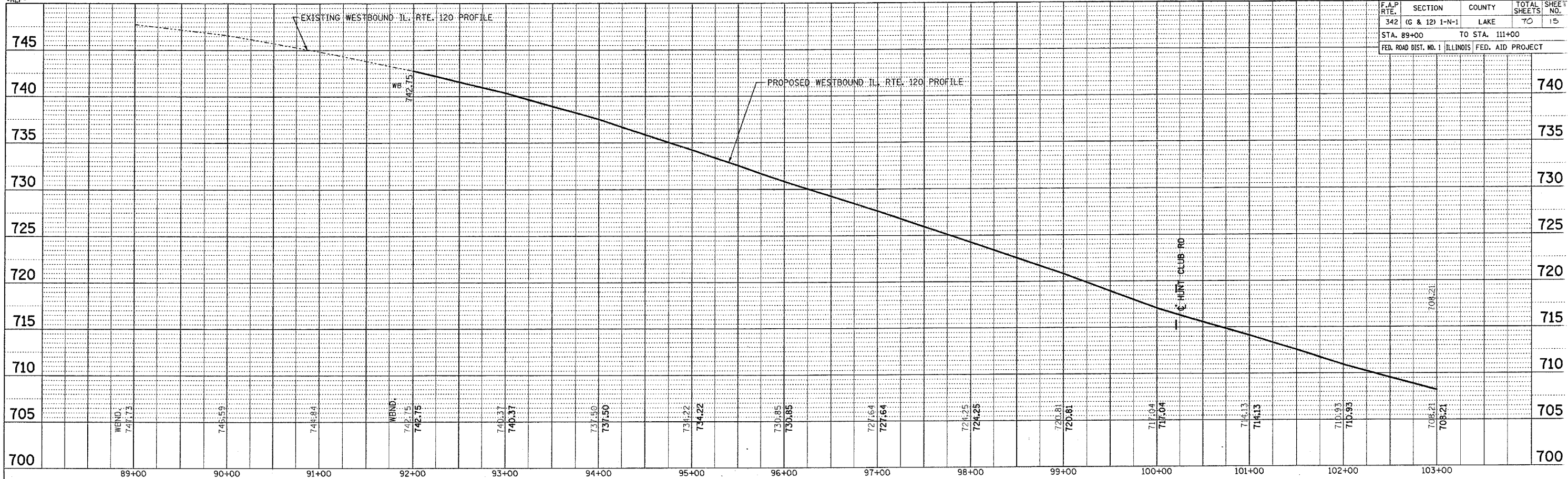


ROADWAY PROFILE
IL. RTE. 120 AT HUNT CLUB RD.
EASTBOUND
 SCALE: VERT. 1"=5'
 HORIZ. 1"=50'
 DATE: 10/6/2006
 DRAWN BY:
 CHECKED BY:

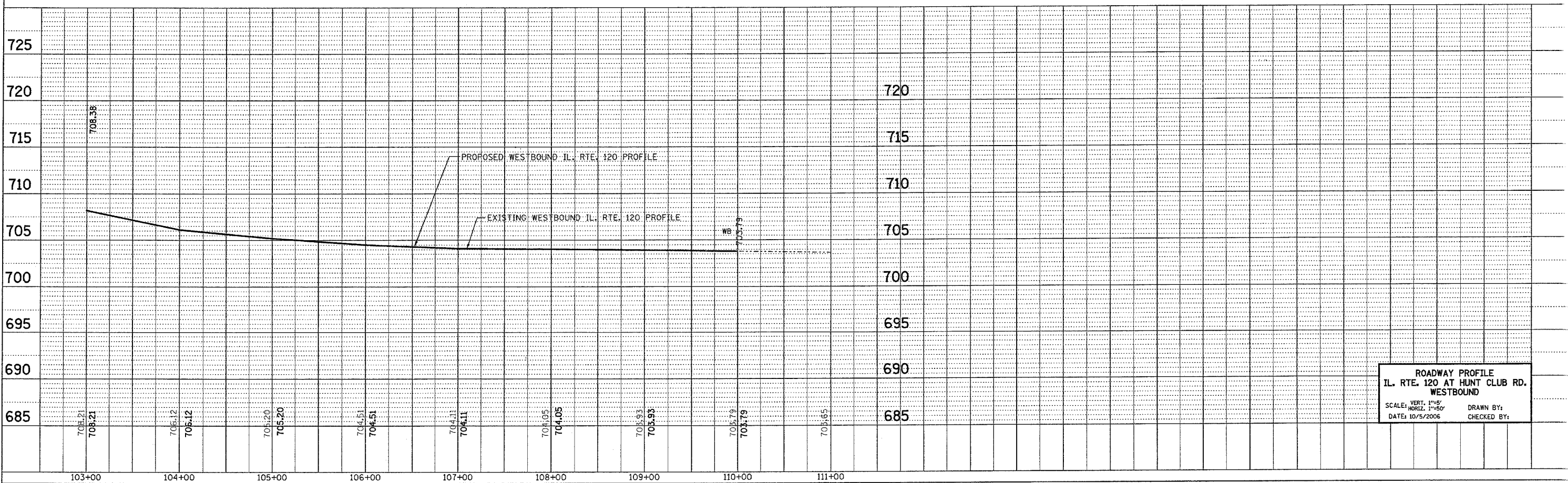
REF-
REF-
REF-

CONTRACT NO.: 62883				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G & 12) 1-N-1	LAKE	70	15
STA. 89+00		TO STA. 111+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PLAN	SUBJECT	DATE
NO.	NO.	
BY	BY	BY
DATE	DATE	DATE
NO.	NO.	NO.

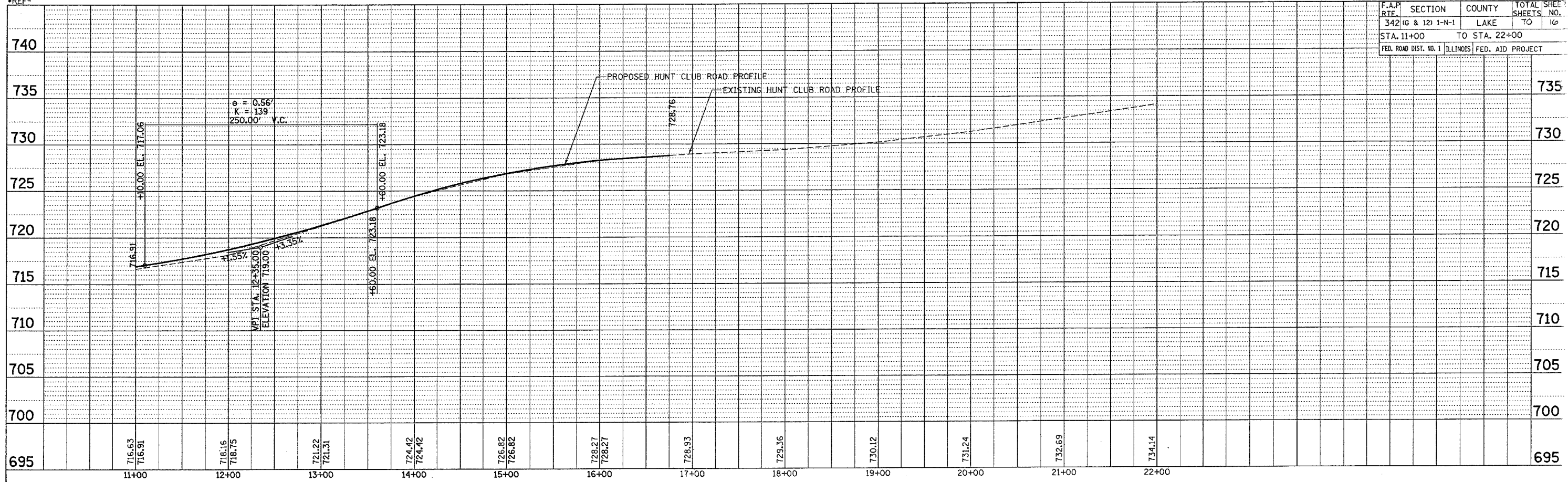


PROFILE	SUBJECT	DATE
NO.	NO.	
BY	BY	BY
DATE	DATE	DATE
NO.	NO.	NO.



ROADWAY PROFILE
 IL. RTE. 120 AT HUNT CLUB RD.
 WESTBOUND
 SCALE: VERT. 1"=5'
 HORIZ. 1"=50'
 DATE: 10/5/2006
 DRAWN BY:
 CHECKED BY:

CONTRACT NO.: 62883			
F.A.P. RITE	SECTION	COUNTY	TOTAL SHEETS NO.
342	(G & 12) 1-N-1	LAKE	16
STA. 11+00		TO STA. 22+00	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			



PLAN SURVEYED BY DATE
 DATE
 NOTE BOBAGS MAY CHECKED
 NO. CAD FILE NAME

PROFILE SURVEYED BY DATE
 DATE
 NOTE BOBAGS MAY CHECKED
 NO. STRUCTURE NOTATION CHITD

ROADWAY PROFILE
 HUNT CLUB RD.
 SCALE VERT. 1"=5'
 HORIZ. 1"=50'
 DATE 10/5/2006 DRAWN BY:
 CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G&I2) 1-N-1	LAKE	70	17
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

PRE-STAGE

INSTALL SIGNS SHOWN ON DETAILS "TEMPORARY INFORMATION SIGNING" PLACE PRIOR TO THE START OF CONSTRUCTION ACTIVITY ON ILLINOIS ROUTE 120 & HUNT CLUB

STAGE I

ESTABLISH TRAFFIC CONTROL AS SHOWN ON THE SUGGESTED STAGING & TRAFFIC CONTROL STAGE I. THIS WORK SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION (SPECIAL)

INSTALL TEMPORARY EROSION CONTROL MEASURE AS SHOWN ON THE EROSION CONTROL PLAN, (SEE NOTE)

EXCAVATE THE JACKING AND RECIEVEING PIT AND JACK THE CROSS ROAD CULVERTS

REMOVE NORTH HALF OF EXIST. HMA & AGGREGATE SHOULDER ON IL 120 AND THE CURB AND GUTTER ON EAST HALF OF HUNT CLUB RD. AND INSTALL PROP. HMA. SHOULDER, BIT. PAVEMENT, STORM SEWER, PROP. DITCHES, SWALES, SODDING AND ALL OTHER COLLATERAL WORK AS SHOWN ON STAGE I PLANS.

STAGE II

ESTABLISH TRAFFIC CONTROL AS SHOWN ON THE SUGGESTED STAGING & TRAFFIC CONTROL STAGE I. THIS WORK SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION (SPECIAL)

INSTALL TEMPORARY EROSION CONTROL MEASURE AS SHOWN ON THE EROSION CONTROL PLAN, (SEE NOTE)

PLACE THE CROSS ROAD CULVERT. PAVEMENT SHALL BE REMOVED AND REPLACED WITH CLASS "D" PATCH. THIS WORK SHALL BE DONE USING THE APPROPRATE TRAFFIC CONTROL & PROTECTION

REMOVE MEDIAN HALF OF EXIST. HMA & AGGREGATE SHOULDER ON IL 120 AND INSTALL PROP. HMA SHOULDER, HMA PAVEMENT, STORM SEWER, DRAINAGE STRUCTURES, PROP. DITCHES, SWALES, SODDING AND ALL OTHER COLLATERAL WORK AS SHOWN ON STAGE II.

STAGE III

REMOVE SOUTH HALF OF EXIST. HOT-MIX ASPHALT & AGGREGATE SHOULDER ON IL 120 AND INSTALL PROP. PAVE SHOULDER, HMA PAVEMENT, CURB AND GUTTER, PROP. DITCH, SWALES, PROP. SEEDING, S AND ALL OTHER COLLATERAL WORK AS SHOWN ON STAGE III.

MILL EXSIT. PAVEMENT AND INSTALL FINAL SURFACE, PAVEMENT MARKING AND RAISED REFLECTIVE ON IL RTE. 120 AND HUNT CLUB RD. THIS WORK SHALL BE DONE USING THE APPROPRATE TRAFFIC CONTROL & PROTECTION.

NOTE:

ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO BEGINING ANY CONSTRUCTION ACTIVITIES WHICH WILL POTENTIALLY CREATE ERODABLE CONDITION.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STAGING NOTES

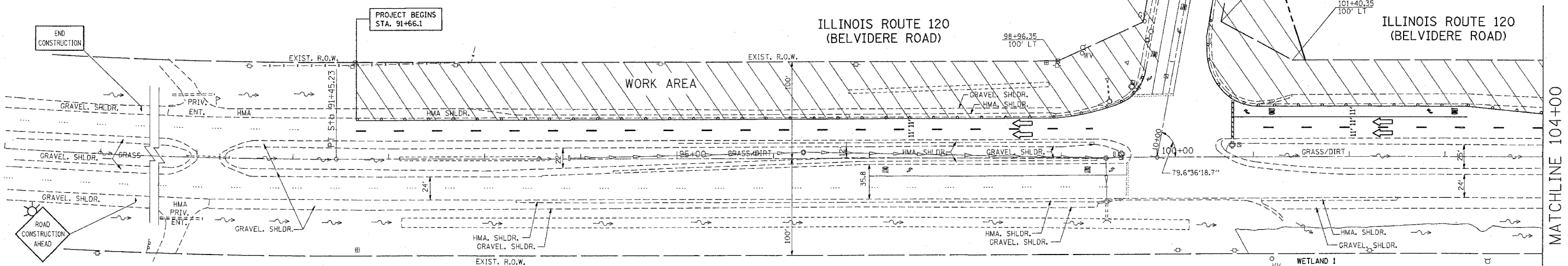
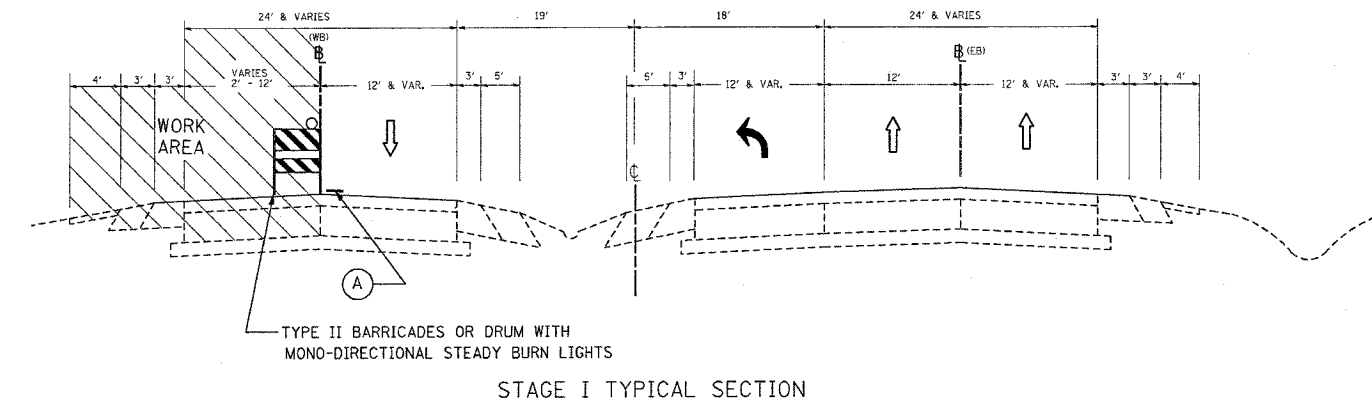
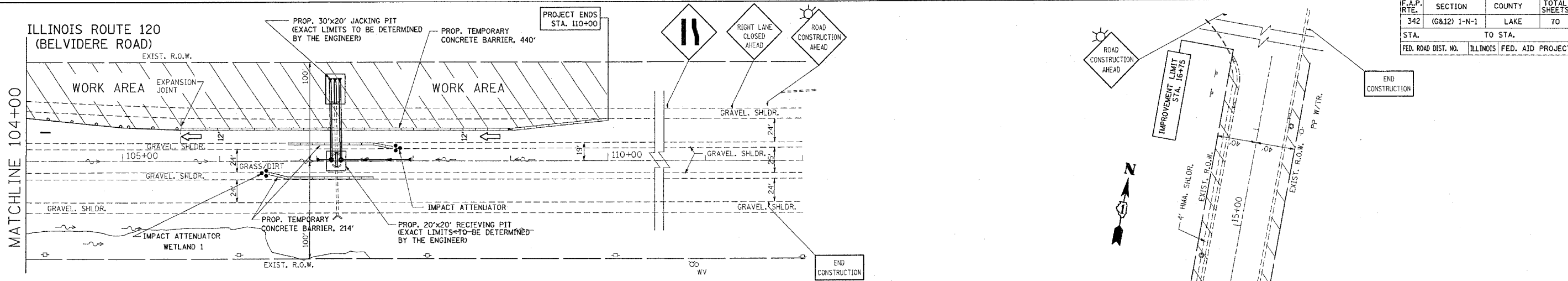
IL. RTE. 120 (BELVIDERE ROAD)

@ HUNT CLUB ROAD

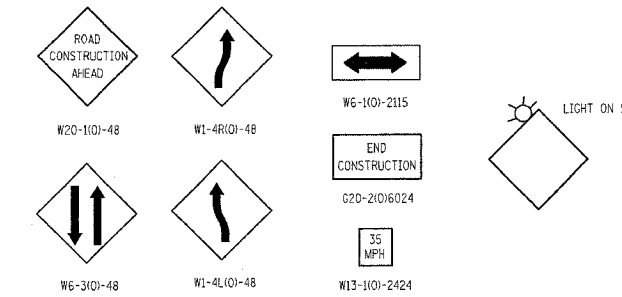
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REFERENCE = 1101083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G&I) 1-N-1	LAKE	70	19
STA. TO STA.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



- LEGEND**
- LI TYPE III BARRICADES WITH FLASHING LIGHTS
 - VERTICAL PANEL
 - TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS
 - 50' C-C ON TANGENT
 - 25' C-C ON TAPERS (TYP.)
 - 15' C-C ON RADII (TYP.)
 - SIGN
 - (A) PAVEMENT MARKING TAPE, TYPE III SPECIAL, 4" WHITE
 - (B) PAVEMENT MARKING TAPE, TYPE III SPECIAL, 4" WHITE (10' LINE- 30' SKIP)
 - (C) PAVEMENT MARKING TAPE, TYPE III SPECIAL, 6" WHITE
 - (D) PAVEMENT MARKING TAPE, TYPE III SPECIAL, LETTERS AND SYMBOLS
 - (E) PAVEMENT MARKING TAPE, TYPE III SPECIAL, DIAGONALS
 - (F) PAVEMENT MARKING TAPE, TYPE III SPECIAL, 24" WHITE
 - (G) PAVEMENT MARKING TAPE, TYPE III SPECIAL, 4" YELLOW



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

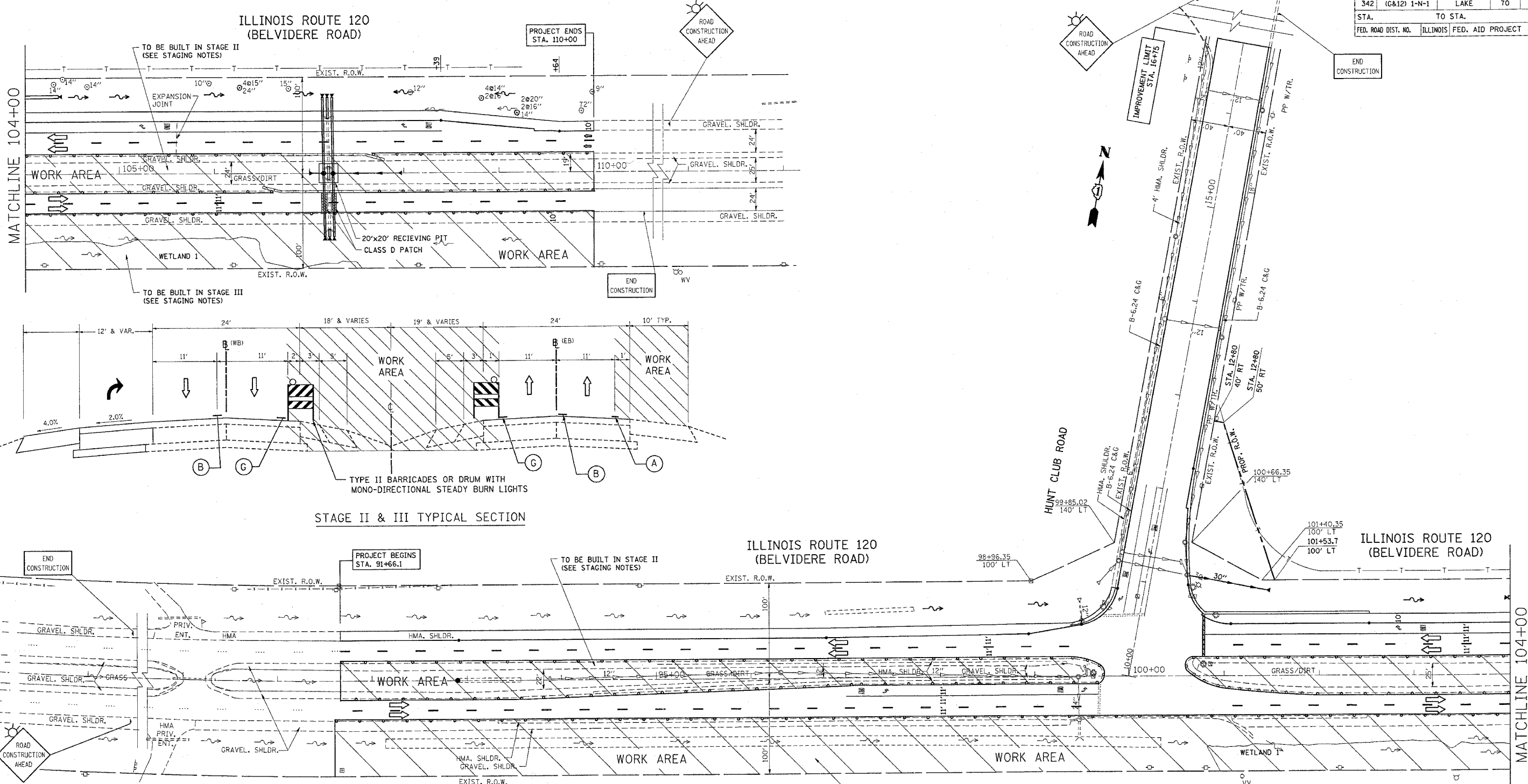
STAGE I
IL. RTE. 120 (BELVIDERE ROAD)
@ HUNT CLUB ROAD

SCALE: VERT. HORIZ.
DATE

DRAWN BY
CHECKED BY

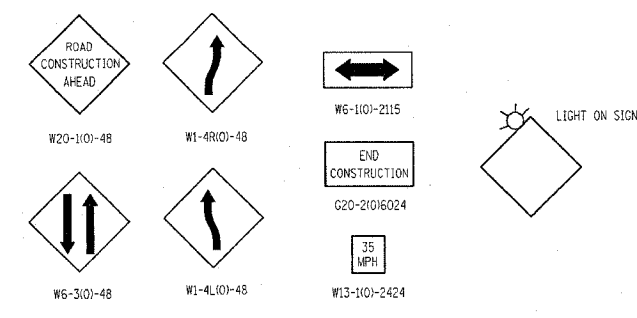
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G&I2) 1-N-1	LAKE	70	19
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



STAGE II & III TYPICAL SECTION

- LEGEND**
- ⚡ TYPE III BARRICADES WITH FLASHING LIGHTS
 - ▨ VERTICAL PANEL
 - TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS
 - 50' C-C ON TANGENT
 - 25' C-C ON TAPERS (TYP.)
 - 15' C-C ON RADII (TYP.)
 - ⓐ SIGN
 - (A) PAVEMENT MARKING TAPE, TYPE III SPECIAL, 4" WHITE
 - (B) PAVEMENT MARKING TAPE, TYPE III SPECIAL, 4" WHITE (10' LINE- 30' SKIP)
 - (C) PAVEMENT MARKING TAPE, TYPE III SPECIAL, 6" WHITE
 - (D) PAVEMENT MARKING TAPE, TYPE III SPECIAL, LETTERS AND SYMBOLS
 - (E) PAVEMENT MARKING TAPE, TYPE III SPECIAL, DIAGONALS
 - (F) PAVEMENT MARKING TAPE, TYPE III SPECIAL, 24" WHITE
 - (G) PAVEMENT MARKING TAPE, TYPE III SPECIAL, 4" YELLOW



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STAGE II & III
IL. RTE. 120 (BELVIDERE ROAD)
@ HUNT CLUB ROAD

SCALE: VERT. _____
 DATE _____ HORIZ. _____

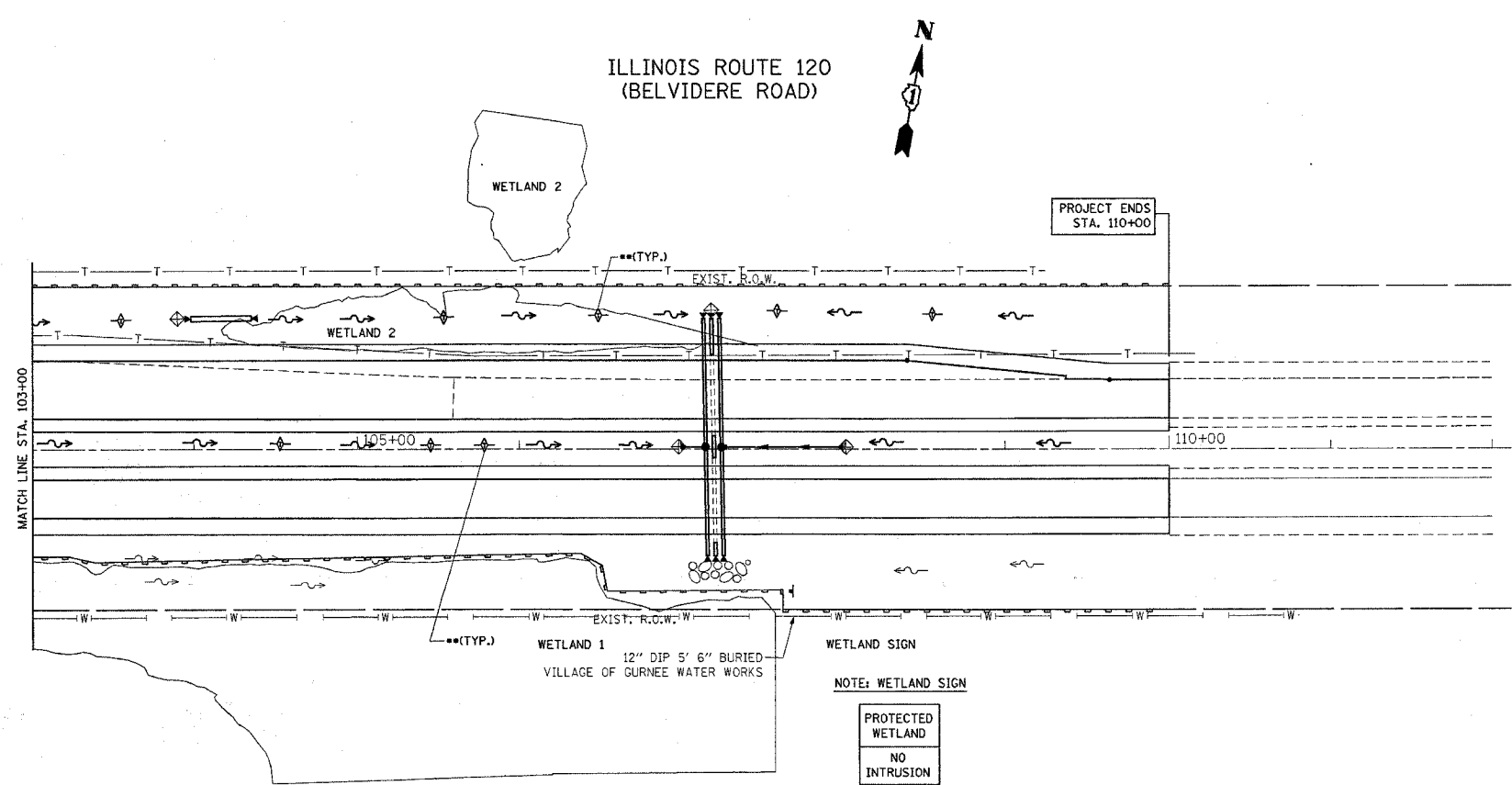
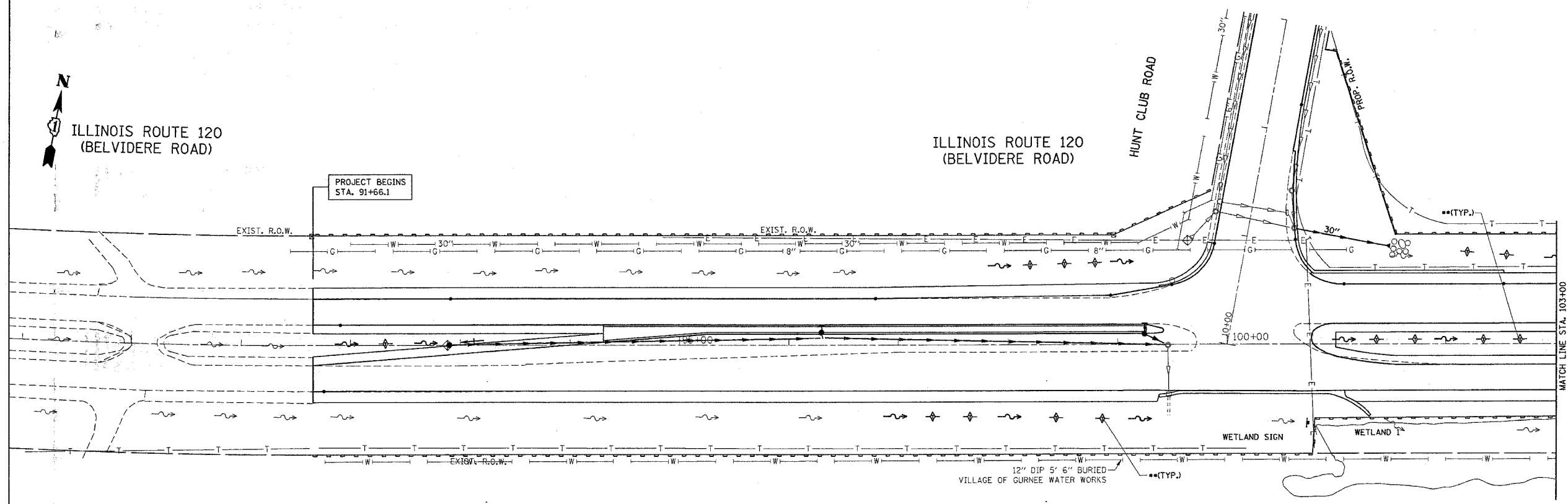
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*REF=er001
*REF=er002

CONTRACT NO. 62883

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342		LAKE	70	20
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



LEGEND FOR EROSION CONTROL NOTES

- PERIMETER EROSION BARRIER
- ** — DITCH CHECK @ EVERY 1' DROP IN DITCH ELEVATION
- SWALE
- DITCH
- ⊕ INLET PROTECTION

NOTE:

1. TEMPORARY EROSION CONTROL SEEDING TO BE PROVIDED AT ALL ERODIBLE BARE EARTH AREAS, REFER TO SPECIAL PROVISION.
2. NPDES PERMIT IS REQUIRED FOR THE PROJECT.
3. THE CONTRACTORS SHALL PROVIDE & MAINTAIN INLET PROTECTION AT ALL PROPOSED DRAINAGE STRUCTURES AND AT OTHER LOCATIONS DIRECTED BY THE ENGINEER AND/OR SHOWN ON THE PLANS. INLET PROTECTION SHALL BE PLACED IMMEDIATELY AFTER THE AREA INVOLVED HAS BEEN DISTURBED.
4. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATION AND THE APPLICABLE STATE STANDARDS SPECIFICATION AND OF THE APPLICABLE STATE STANDARDS FOR THE ENTIRE DURATION OF THE CONTRACT OR UNTIL SUCH A TIME AS DIRECTED BY THE ENGINEER.
5. AT ANY AREA WHERE THERE IS NO PROPOSED GRADING, THE EXISTING GROUND COVER SHALL REMAIN.
6. "WETLANDS" SIGN SHALL BE ATTACHED TO THE PERIMETER EROSION BARRIER POST AT EACH WETLAND. SIGNS ARE AVAILABLE FROM THE ROADSIDE DEVELOPMENT UNIT.

NOTE: WETLAND SIGN



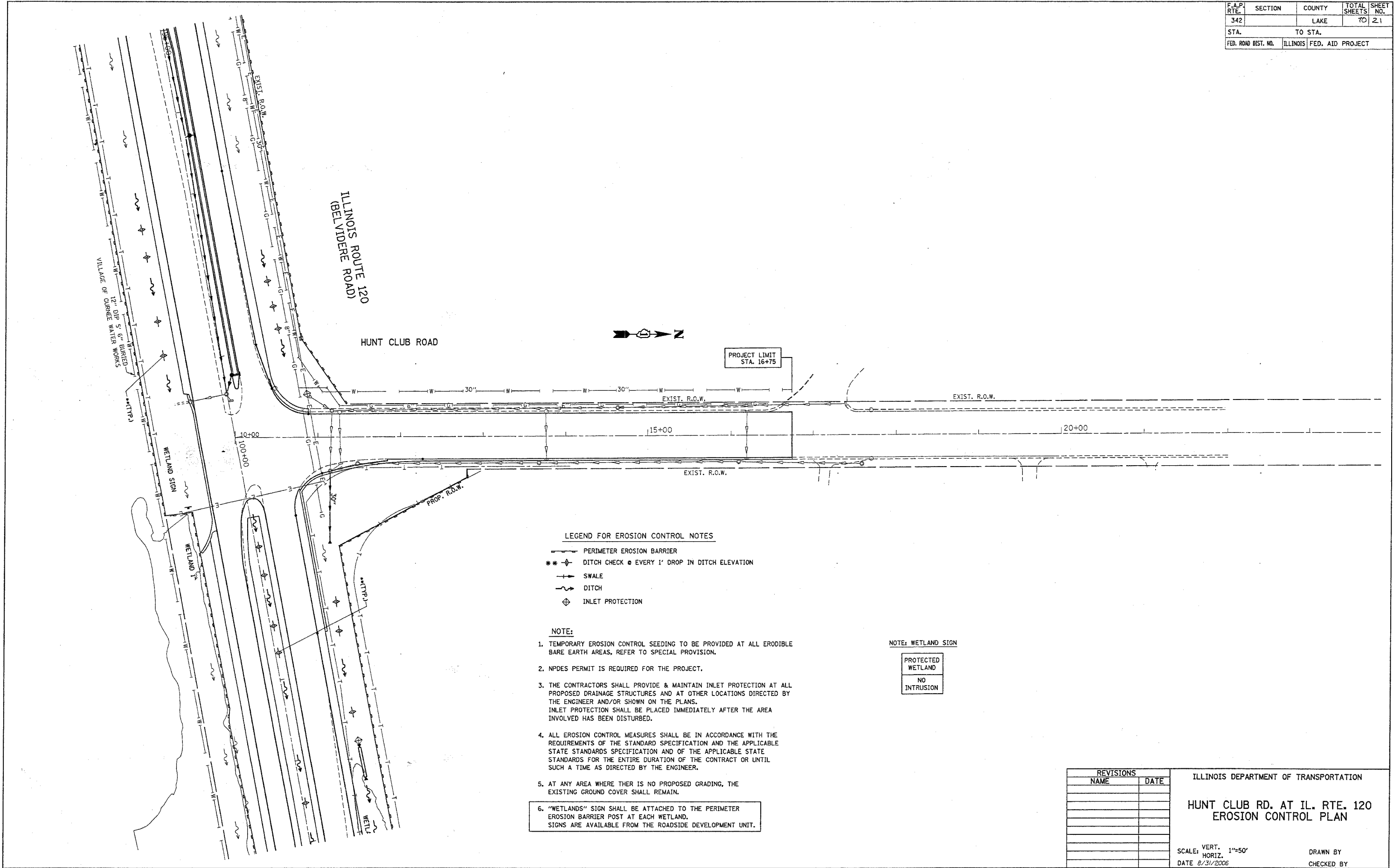
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL. RTE. 120 AT HUNT CLUB RD.
EROSION CONTROL PLAN

SCALE: VERT. 1"=50'
HORIZ. DATE 10/6/2006
DRAWN BY
CHECKED BY

PLOT DATE = 10/6/2006
FILE NAME = c:\p\proj\er001\er001.dgn
PLOT SCALE = 1/8"=1'-0"
USER NAME = gsgstamoc

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342		LAKE	70	21
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



- LEGEND FOR EROSION CONTROL NOTES**
- PERIMETER EROSION BARRIER
 - ** ⊕ DITCH CHECK @ EVERY 1' DROP IN DITCH ELEVATION
 - + SWALE
 - DITCH
 - ⊕ INLET PROTECTION

- NOTE:**
- TEMPORARY EROSION CONTROL SEEDING TO BE PROVIDED AT ALL ERODIBLE BARE EARTH AREAS, REFER TO SPECIAL PROVISION.
 - NPDES PERMIT IS REQUIRED FOR THE PROJECT.
 - THE CONTRACTORS SHALL PROVIDE & MAINTAIN INLET PROTECTION AT ALL PROPOSED DRAINAGE STRUCTURES AND AT OTHER LOCATIONS DIRECTED BY THE ENGINEER AND/OR SHOWN ON THE PLANS. INLET PROTECTION SHALL BE PLACED IMMEDIATELY AFTER THE AREA INVOLVED HAS BEEN DISTURBED.
 - ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATION AND THE APPLICABLE STATE STANDARDS SPECIFICATION AND OF THE APPLICABLE STATE STANDARDS FOR THE ENTIRE DURATION OF THE CONTRACT OR UNTIL SUCH A TIME AS DIRECTED BY THE ENGINEER.
 - AT ANY AREA WHERE THERE IS NO PROPOSED GRADING, THE EXISTING GROUND COVER SHALL REMAIN.
 - "WETLANDS" SIGN SHALL BE ATTACHED TO THE PERIMETER EROSION BARRIER POST AT EACH WETLAND. SIGNS ARE AVAILABLE FROM THE ROADSIDE DEVELOPMENT UNIT.

NOTE: WETLAND SIGN

PROTECTED WETLAND
NO INTRUSION

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HUNT CLUB RD. AT IL. RTE. 120
EROSION CONTROL PLAN**

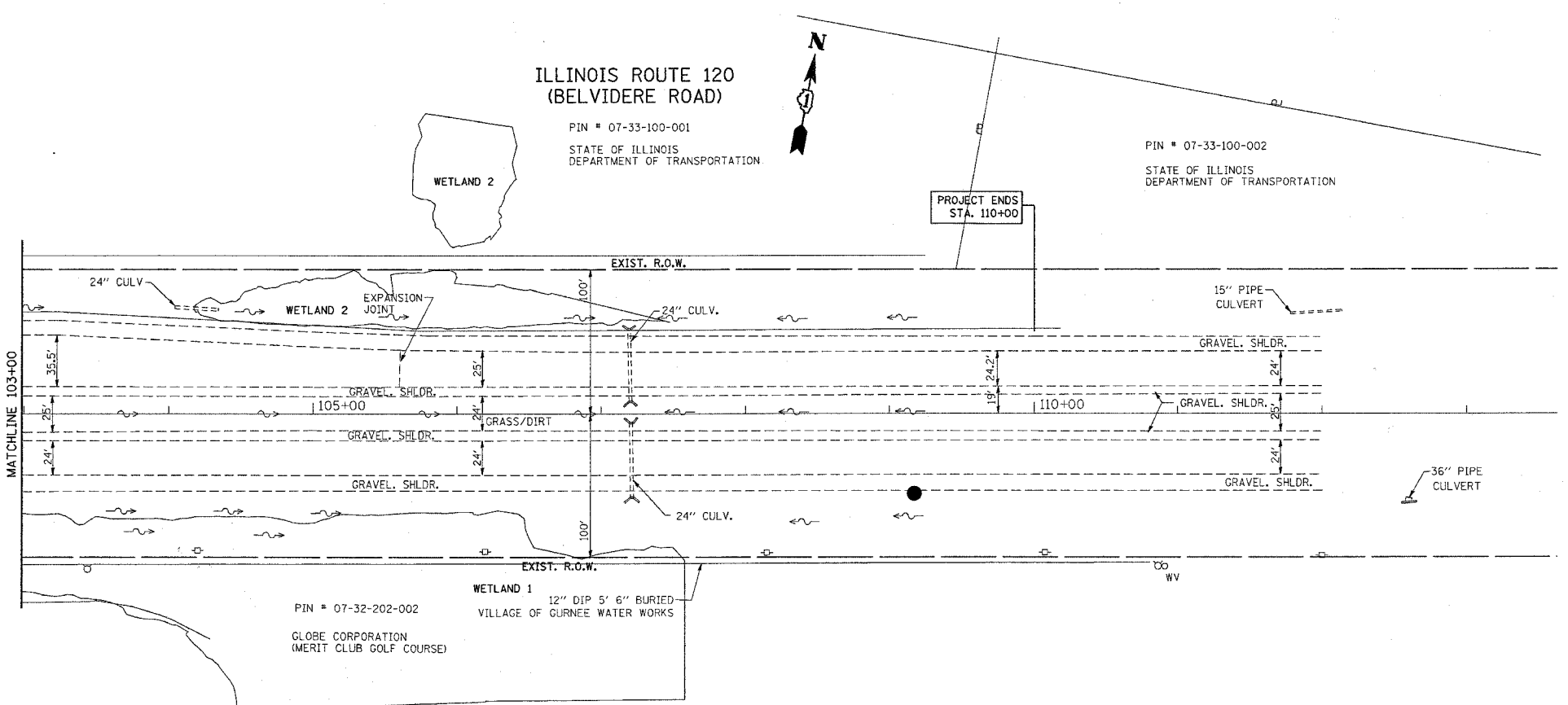
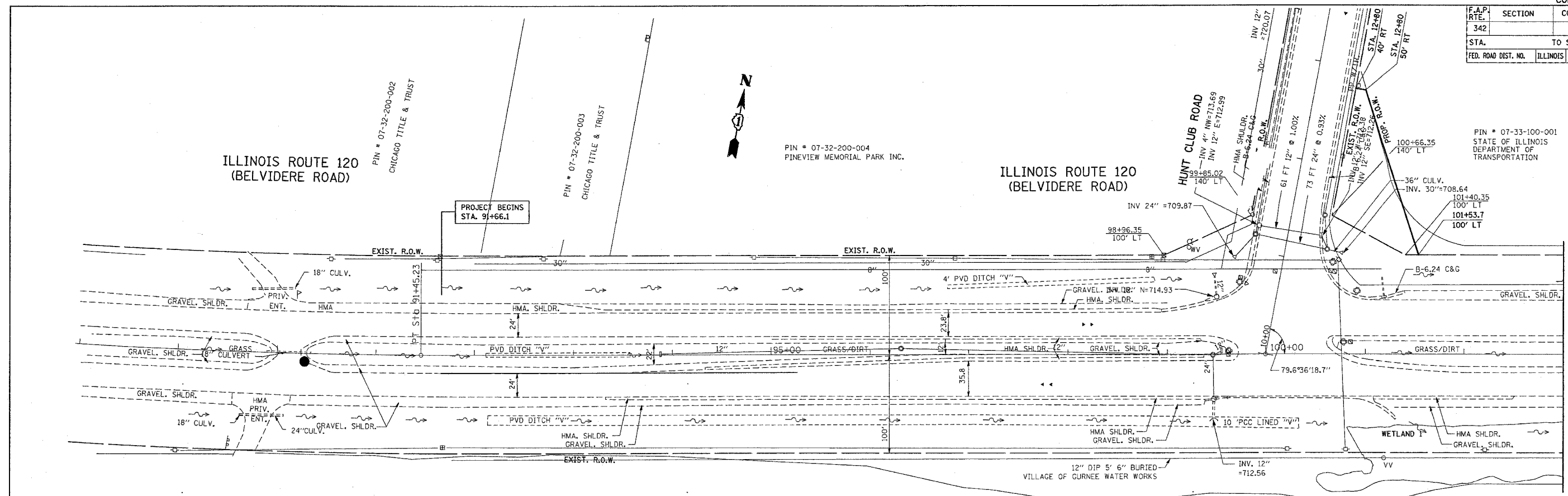
SCALE: VERT. 1"=50'
HORIZ. DATE 8/31/2006

DRAWN BY
CHECKED BY

PLOT DATE = 8/31/2006
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USER NAME = 10101003

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342		LAKE	22	22
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

PIN # 07-33-100-001
STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

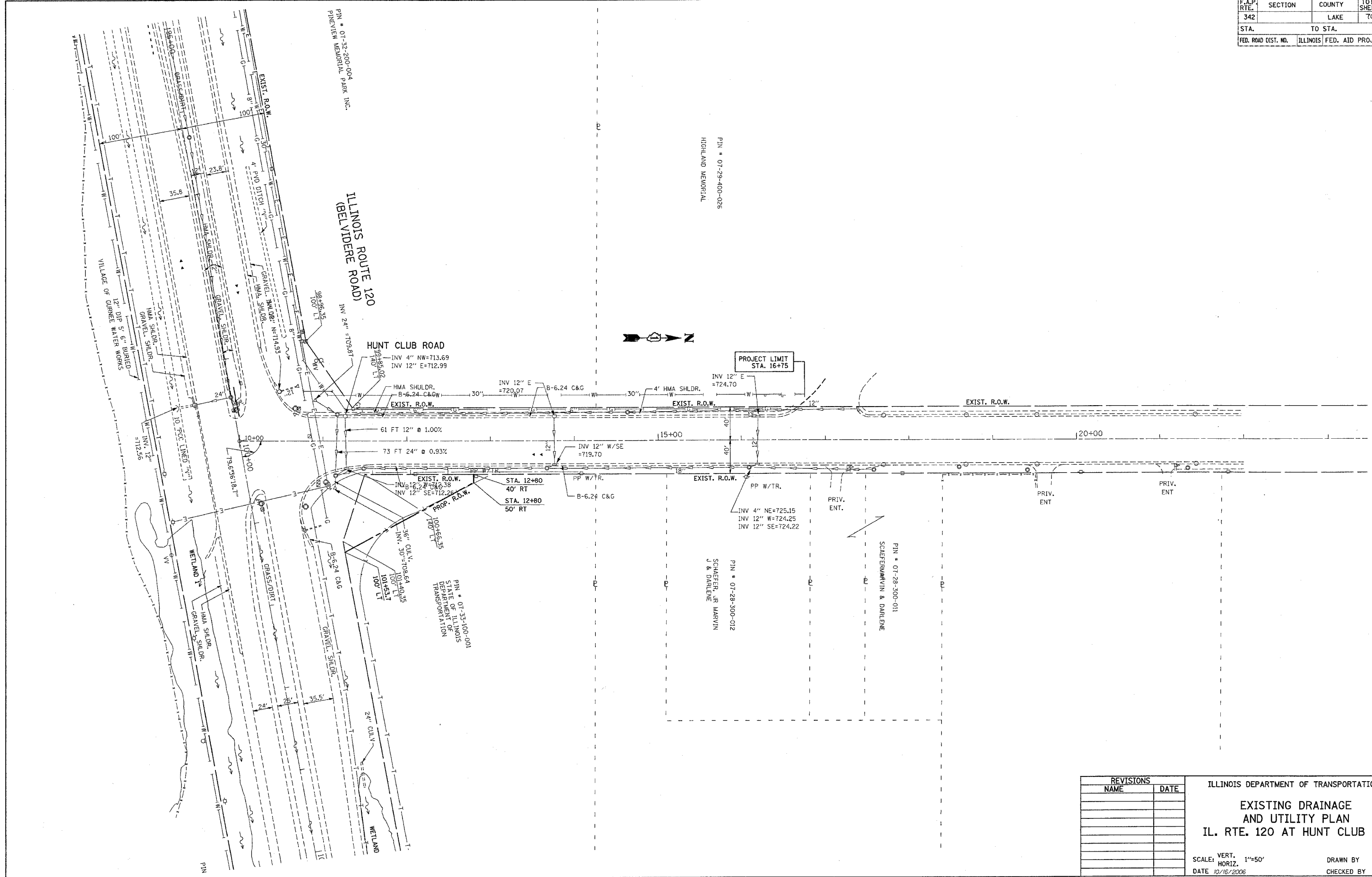


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING DRAINAGE AND UTILITY PLAN
IL. RTE. 120 AT HUNT CLUB RD.
SCALE: VERT. 1"=50'
HORIZ. 1"=50'
DATE 10/16/2006
DRAWN BY
CHECKED BY

PLOT DATE = 10/16/2006
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USER NAME = baward

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342		LAKE	70	23
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PLOT DATE = 10/16/2006
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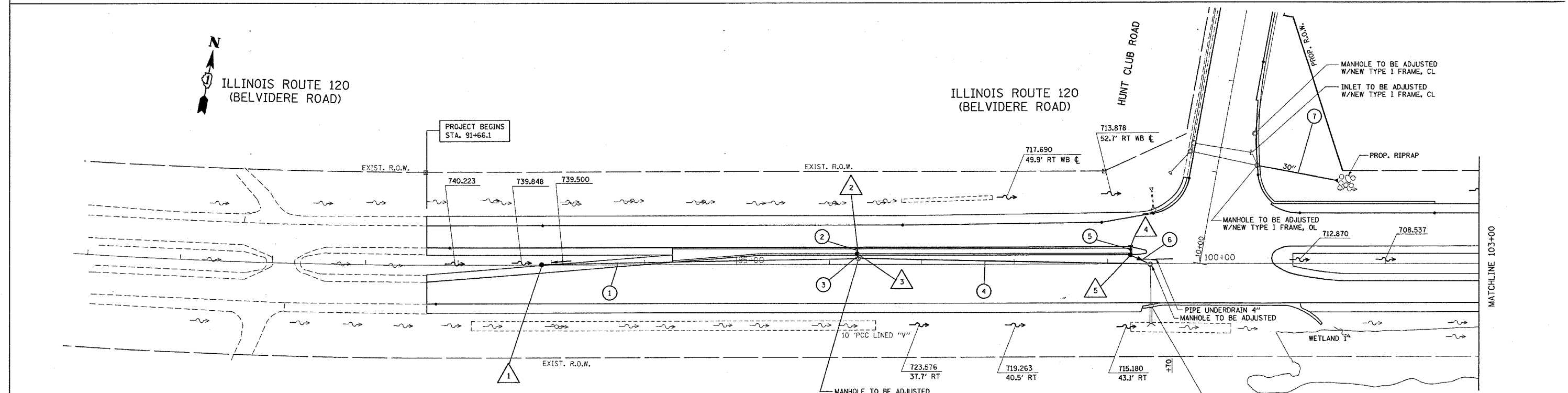
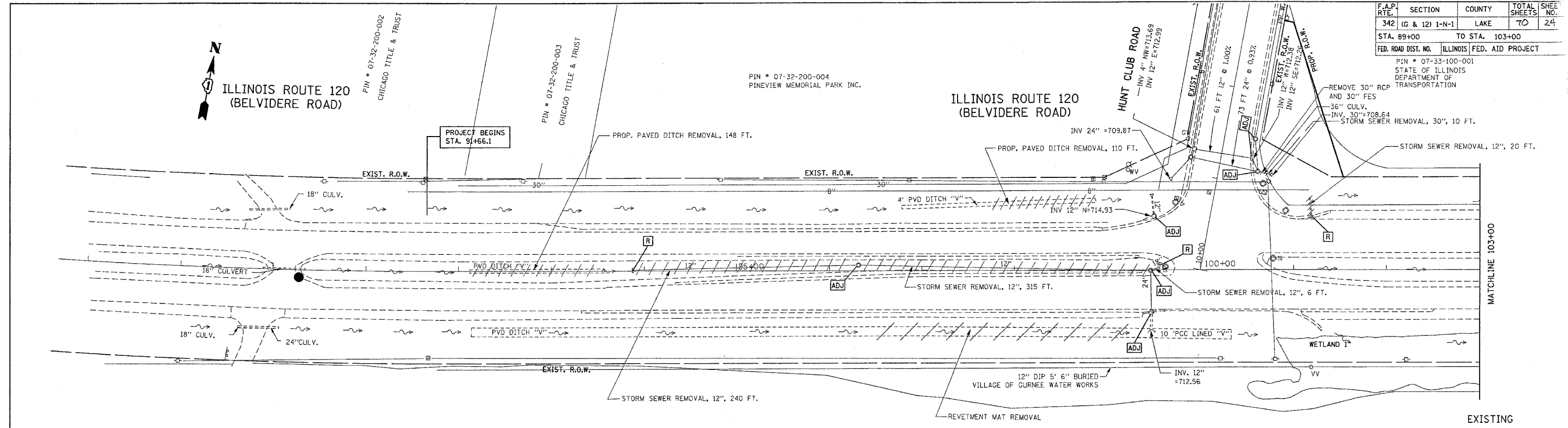
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**EXISTING DRAINAGE
 AND UTILITY PLAN**
 IL. RTE. 120 AT HUNT CLUB RD.

SCALE: VERT. 1"=50'
 HORIZ. 1"=50'
 DATE 10/16/2006
 DRAWN BY
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G & I2) I-N-1	LAKE	70	24
STA. 89+00		TO STA. 103+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PIN # 07-33-100-001
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



- 1 STA. 92+90, CL CATCH BASIN, TYPE C W/TYPE 8, GRATE T.O.G. = 739.00 INV. = 733.15 (E)
- 2 STA. 96+30, EOP INLET, TYPE A W/TYPE 24, FRAME & GRATE T.O.G. = 729.799 INV. = 726.30 (S)
- 3 STA. 96+30, EOP, WB CATCH BASIN, TYPE C W/TYPE 24, FRAME & GRATE T.O.G. = 729.457 INV. = 725.31 (S) INV. = 726.24 (N)
- 4 STA. 99+25, EOP, EB INLET, TYPE A W/TYPE 24, FRAME & GRATE T.O.G. = 719.830 INV. = 716.33 (S)
- 5 STA. 99+25, EOP, EB CATCH BASIN, TYPE C W/TYPE 24, FRAME & GRATE T.O.G. = 719.565 INV. = 713.520 (SE)

- 1 PROP. STORM SEWER, CLASS A, TYPE II, 15", 343 FT T. B. F. = 275
- 2 PROP. STORM SEWER, CLASS A, TYPE II, 12", 8 FT T. B. F. = 2.9
- 3 PROP. STORM SEWER, CLASS A, TYPE II, 12", 5 FT T. B. F. = 1.8
- 4 PROP. STORM SEWER, CLASS A, TYPE II, 15", 315 FT T. B. F. = 251

- 5 PROP. STORM SEWER, CLASS A, TYPE II, 12", 8 FT T. B. F. = 5.4
- 6 PROP. STORM SEWER, CLASS A, TYPE II, 12", 20 FT T. B. F. = 15.5
- 7 PROP. STORM SEWER, CLASS A, TYPE I, 30" 85 FT W/PRECAST REINFORCED CONCRETE FLARED END, 30" INV. = 705.00

REVISIONS	
NAME	DATE

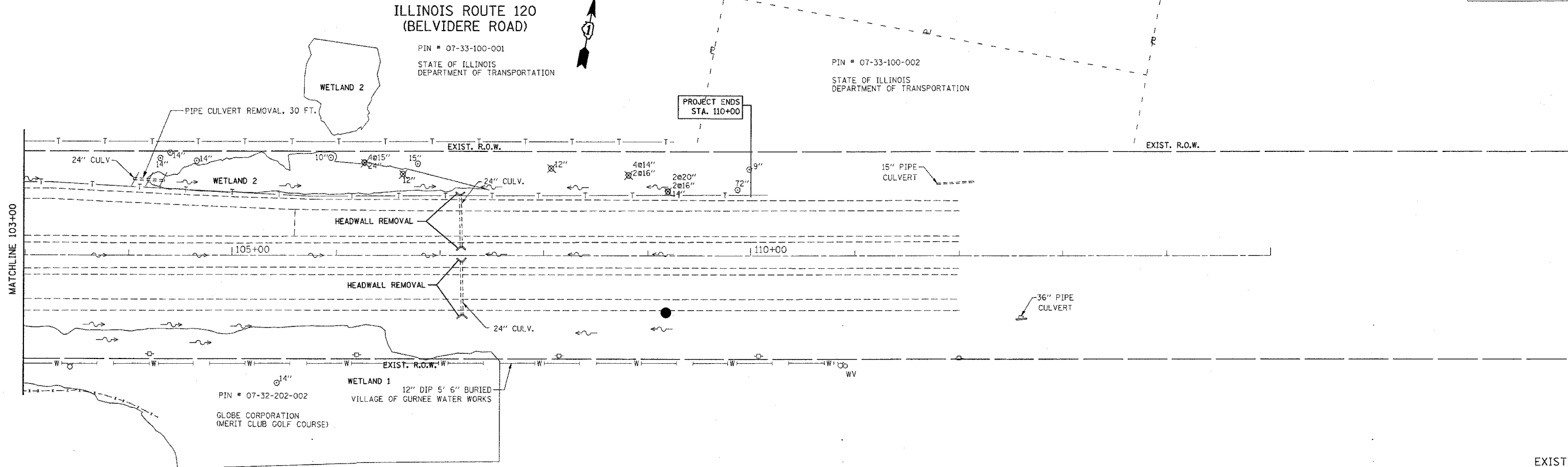
ILLINOIS DEPARTMENT OF TRANSPORTATION
**IL. RTE. 120 AT HUNT CLUB RD.
DRAINAGE PLAN**

SCALE: VERT. 1"=50'
HORIZ. 1"=50'
DATE 10/16/2006

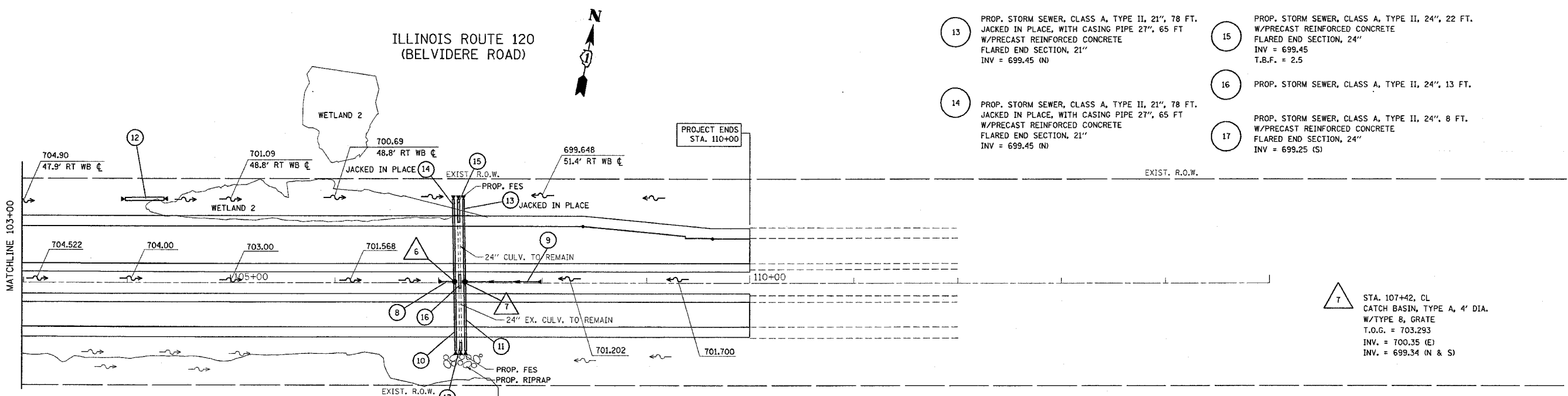
DRAWN BY
CHECKED BY

PLOT DATE: 10/16/2006
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 PLOT SCALE: 500000 / 1"
 USER NAME: bawerf

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G & 12) 1-N-1	LAKE	20	25
STA. 103+00		TO STA. 111+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



EXISTING



PROPOSED

- 13 PROP. STORM SEWER, CLASS A, TYPE II, 21", 78 FT. JACKED IN PLACE, WITH CASING PIPE 27", 65 FT W/PRECAST REINFORCED CONCRETE FLARED END SECTION, 21" INV = 699.45 (N)
- 14 PROP. STORM SEWER, CLASS A, TYPE II, 21", 78 FT. JACKED IN PLACE, WITH CASING PIPE 27", 65 FT W/PRECAST REINFORCED CONCRETE FLARED END SECTION, 21" INV = 699.45 (N)
- 15 PROP. STORM SEWER, CLASS A, TYPE II, 24", 22 FT. W/PRECAST REINFORCED CONCRETE FLARED END SECTION, 24" INV = 699.45 T.B.F. = 2.5
- 16 PROP. STORM SEWER, CLASS A, TYPE II, 24", 13 FT.
- 17 PROP. STORM SEWER, CLASS A, TYPE II, 24", 8 FT. W/PRECAST REINFORCED CONCRETE FLARED END SECTION, 24" INV = 699.25 (S)

- 8 PROP. STORM SEWER, CLASS A, TYPE I, 12", 10 FT W/PRECAST REINFORCED CONCRETE FLARED END SECTION, 12" INV = 700.650
- 9 PROP. STORM SEWER, CLASS A, TYPE I, 12", 69 FT W/PRECAST REINFORCED CONCRETE FLARED END SECTION, 12" INV = 701.037
- 10 PROP. STORM SEWER, CLASS A, TYPE II, 21", 66 FT. W/PRECAST REINFORCED CONCRETE FLARED END SECTION, 21" INV = 699.25 (S) T.B.F. = 18.9
- 11 PROP. STORM SEWER, CLASS A, TYPE II, 21", 66 FT. W/PRECAST REINFORCED CONCRETE FLARED END SECTION, 21" INV = 699.25 (S) T.B.F. = 18.9
- 12 PROP. PIPE CULVERT, CLASS A, TYPE I, 30", 38 FT. W/2 FLARED END SECTION INV = 701.50 (E) INV = 701.90 (W)
- 6 STA. 107+25, CL CATCH BASIN, TYPE A, 4' DIA. W/TYPE B, GRATE T.O.G. = 703.293 INV. = 700.35 (W) INV. = 699.34 (N & S)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

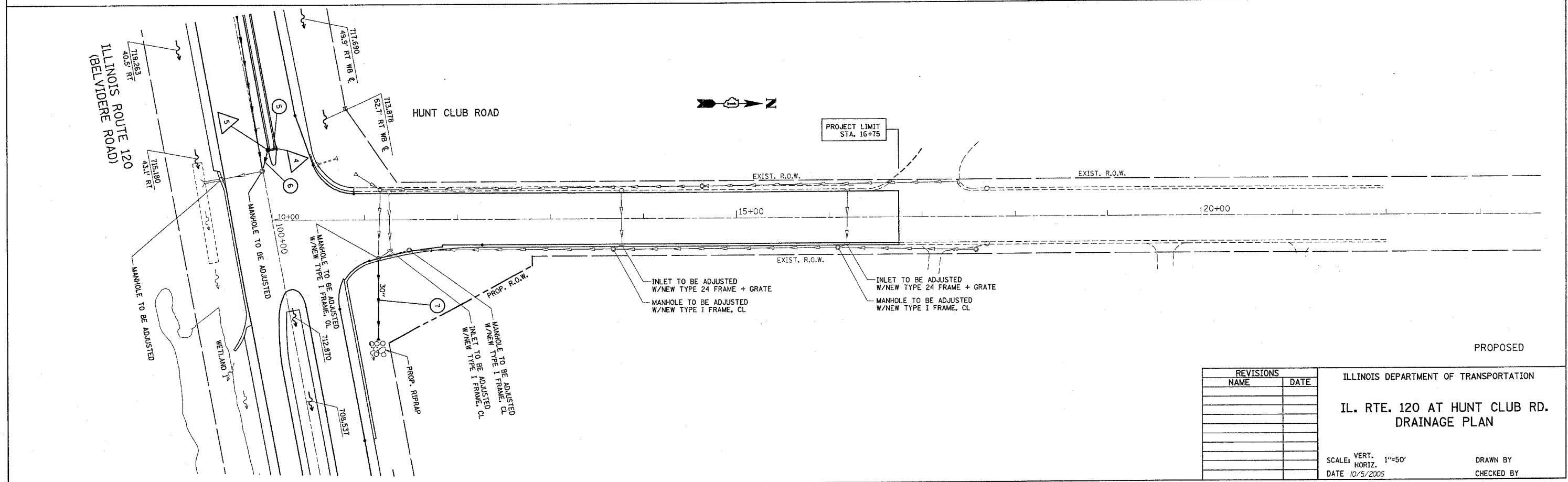
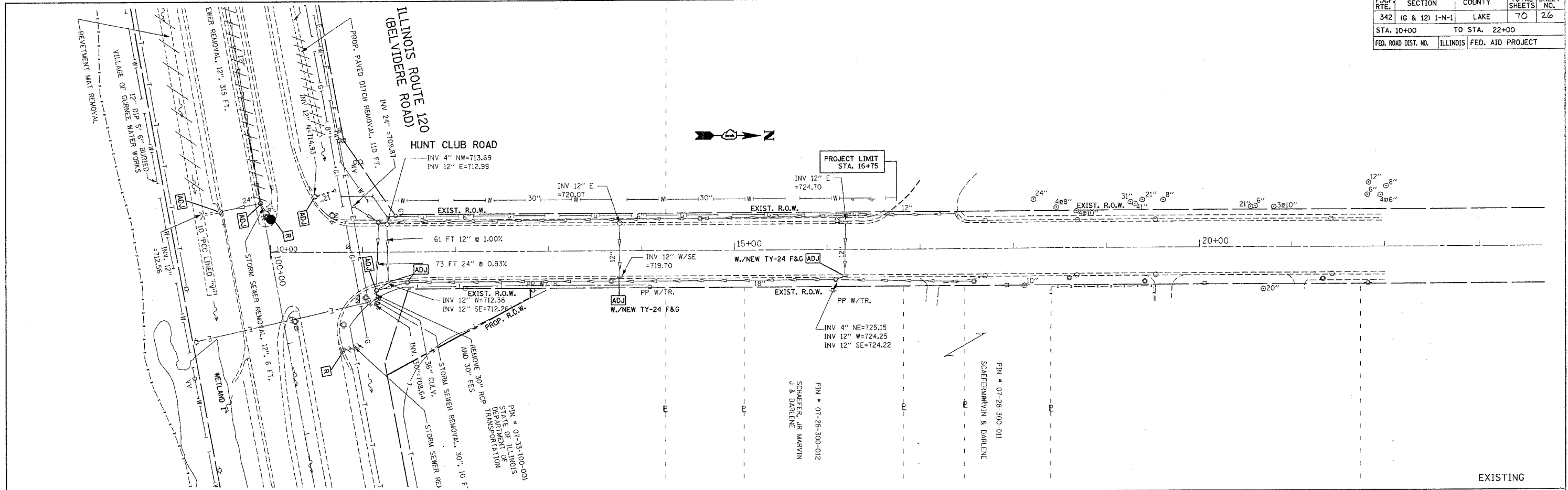
IL. RTE. 120 AT HUNT CLUB RD. DRAINAGE PLAN

SCALE: VERT. 1"=50'
 HORIZ. 1"=50'
 DATE 10/15/2006

DRAWN BY
 CHECKED BY

PLOT DATE: 10/15/2006
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 PLOT SCALE: 1"=50'
 USER NAME: JPH/103

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G & 12) 1-N-1	LAKE	70	26
STA. 10+00		TO STA. 22+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



REVISIONS	
NAME	DATE

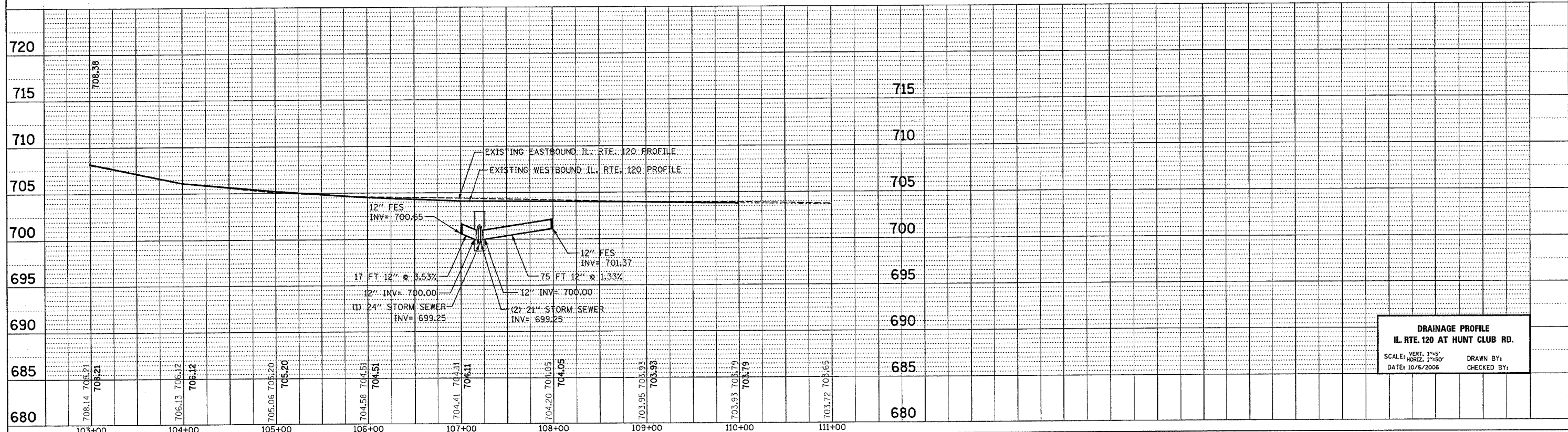
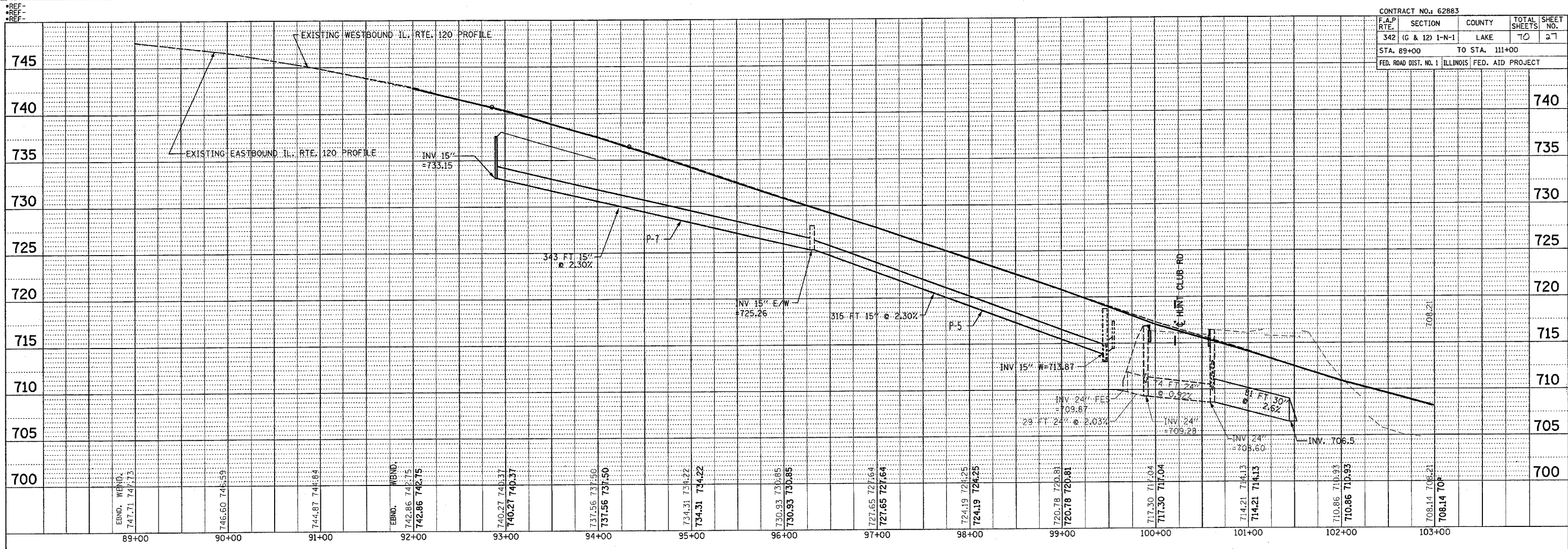
ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL. RTE. 120 AT HUNT CLUB RD.
 DRAINAGE PLAN

SCALE: VERT. 1"=50'
 HORIZ. 1"=50'
 DATE 10/5/2006

DRAWN BY
 CHECKED BY

PLOT DATE 10/5/2006
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 PLOT SCALE 1/4"=1'-0"
 USER NAME wjrb

CONTRACT NO.: 62883				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G & 12) I-N-1	LAKE	70	27
STA. 89+00		TO STA. 111+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DRAINAGE PROFILE
IL. RTE. 120 AT HUNT CLUB RD.
 SCALE: VERT. 1"=5'
 HORIZ. 1"=50'
 DATE: 10/6/2006
 DRAWN BY:
 CHECKED BY:

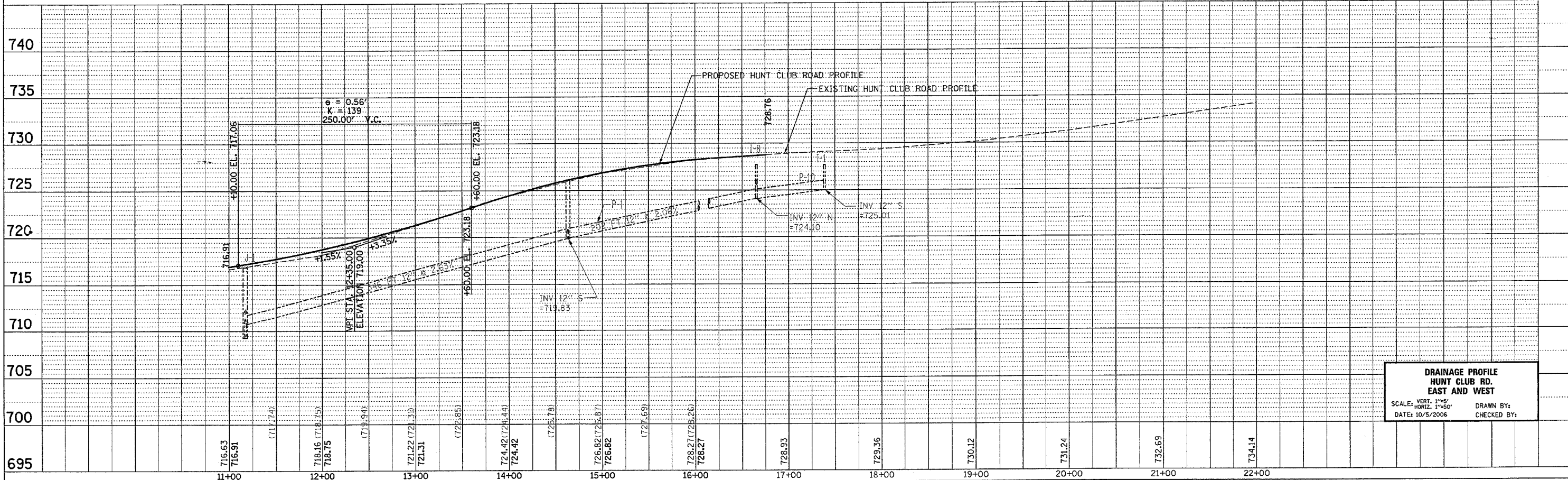
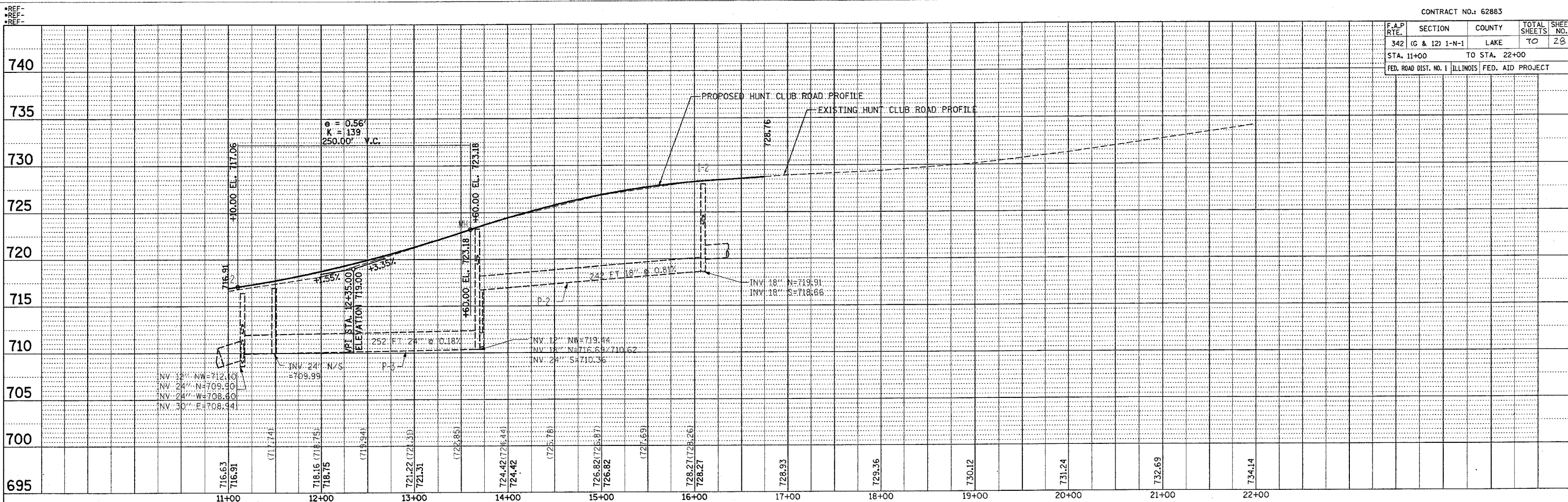
PLAN
 SERVICED
 PLOTTED
 NOTE BOOK
 NO.

PROFILE
 SERVICED
 PLOTTED
 NOTE BOOK
 NO.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G & 12) 1-N-1	LAKE	70	28
STA. 11+00		TO STA. 22+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

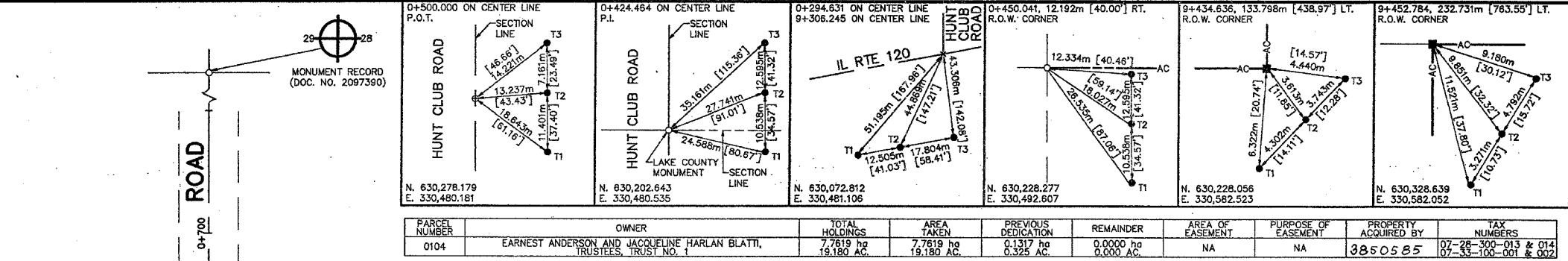
PLAN	SURVEYED	BY	DATE
NO. _____	PLANNED		
	CHECKED		
	BY		
	DATE		

PROFILE	SURVEYED	BY	DATE
NO. _____	PLANNED		
	CHECKED		
	BY		
	DATE		



DRAINAGE PROFILE
HUNT CLUB RD.
EAST AND WEST
SCALE: VERT. 1"=5'
HORIZ. 1"=50'
DATE: 10/5/2006
DRAWN BY:
CHECKED BY:

PARTS OF SECTIONS 28 AND 33, TOWNSHIP 45 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, ILLINOIS.



PARCEL NUMBER	OWNER	TOTAL HOLDINGS	AREA TAKEN	PREVIOUS DEDICATION	REMAINDER	AREA OF EASEMENT	PURPOSE OF EASEMENT	PROPERTY ACQUIRED BY	TAX NUMBERS
0104	EARNEST ANDERSON AND JACQUELINE HARLAN BLATTI, TRUSTEES, TRUST NO. 1	7,7619 ha 19,180 AC.	7,7619 ha 19,180 AC.	0.1317 ha 0.325 AC.	0.0000 ha 0.000 AC.	NA	NA	3850585	07-28-300-013 & 014 07-33-100-001 & 002

LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- CENTERLINE
- EXISTING RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORD DATA
- ENGLISH EQUIVALENT
- EXISTING BUILDINGS

IRON PIPE OR ROD FOUND
CUT CROSS FOUND OR SET
PK NAIL FOUND OR SET
5/8" REBAR SET

THESE STAKES REFERENCE FOUND OR SET MONUMENTATION, SET 5/8 INCH IRON ROD FLUSH WITH THE GROUND TO THE MONUMENTATION, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION, BURIED 5/8 INCH ROD 20 INCHES BELOW GROUND TO THE MONUMENTATION, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

STAKING OF PROPOSED RIGHT OF WAY, SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS, BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

PERMANENT SURVEY MARKER, IDOT STD. 2135 (TO BE SET BY OTHERS)

RIGHT OF WAY STAKING PROPOSED TO BE SET

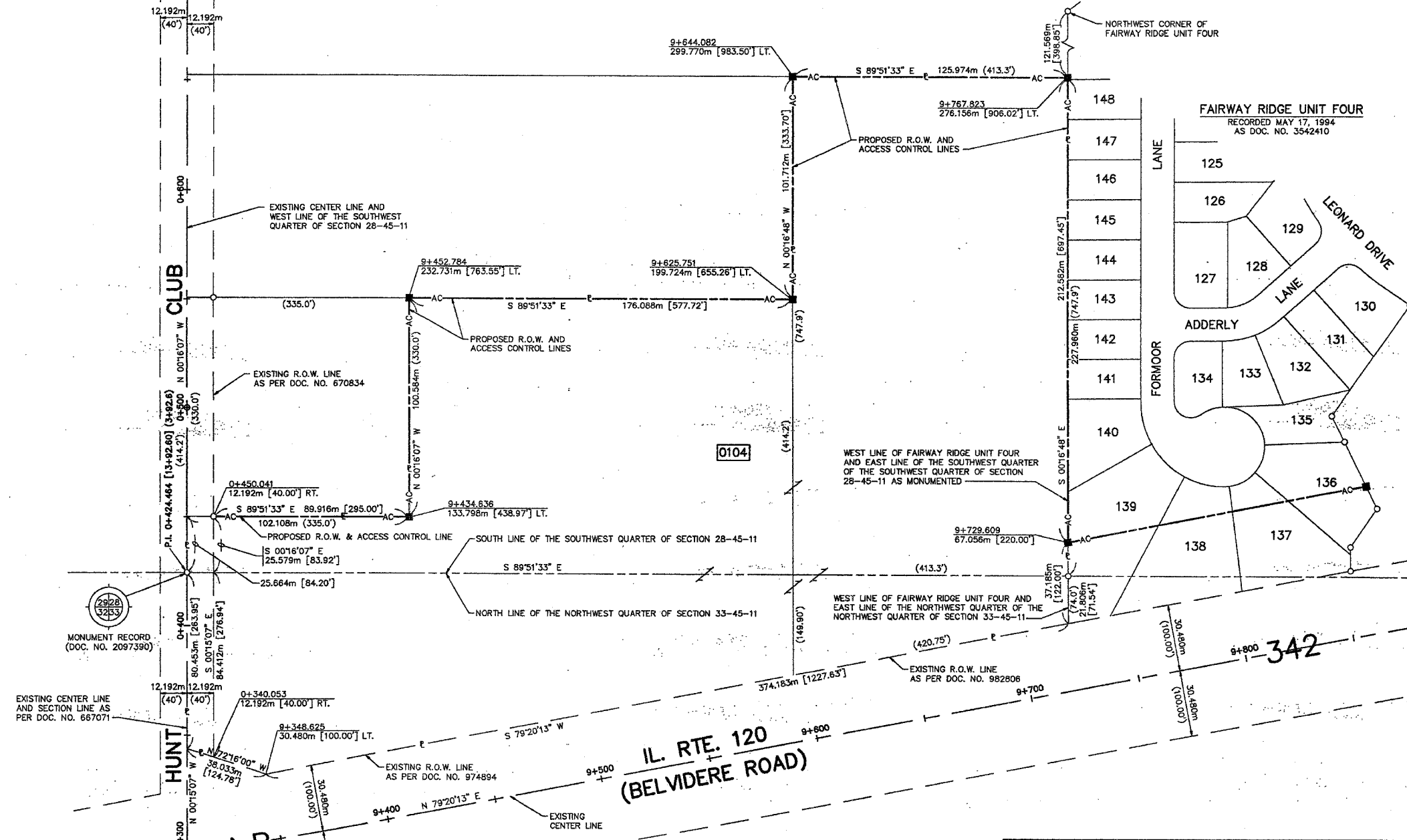
STATE OF ILLINOIS }
COUNTY OF KANE }SS

THIS IS TO CERTIFY THAT I, DALE A. TERRY, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 28 AND 33, TOWNSHIP 45 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY; THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN HEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

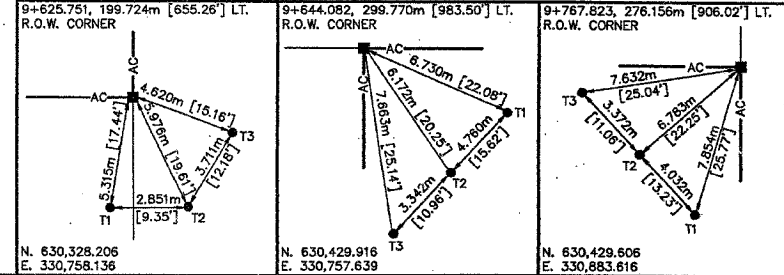
DATED AT ELGIN, ILLINOIS, THIS 1ST DAY OF DECEMBER, 1995 A.D.

Dale A. Terry
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2533

PREPARED BY:
HAMPTON, LENZINI, AND RENWICK INC.
380 SHEPARD DRIVE
ELGIN, ILLINOIS 60123-7010
ACCOUNT NO. 2-07-0044(a)



STATION EQUATION
9+306.245 (305+32.3) IL. RTE. 120 =
0+294.631 [9+66.64] HUNT CLUB RD.

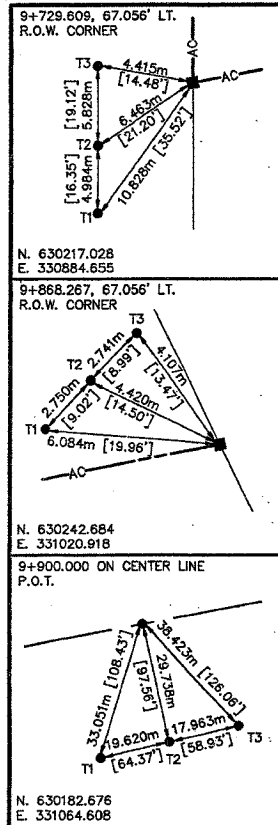


ALL BEARINGS ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE GRID.

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. 342 (BELVIDERE ROAD)
SECTION AT HUNT CLUB ROAD LAKE COUNTY
PROJECT JOB NO. R-91-009-91
STATION 9+300 TO STATION 9+900
SCALE: 1:1000 SHEET 1 OF 2

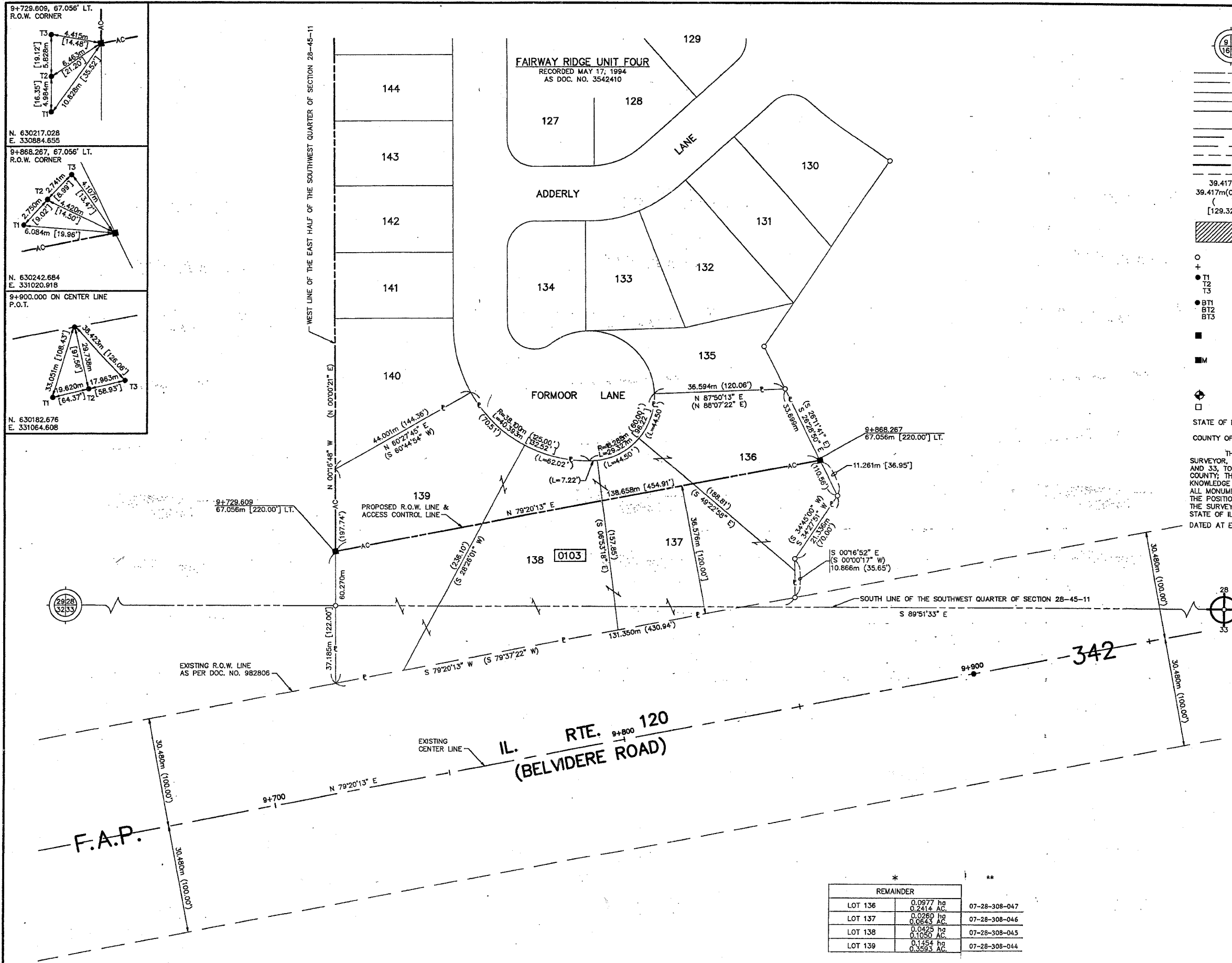
BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

PARTS OF SECTIONS 28 AND 33, TOWNSHIP 45 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, ILLINOIS.



LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- CENTERLINE
- EXISTING RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORD DATA
- ENGLISH EQUIVALENT
- EXISTING BUILDINGS
- IRON PIPE OR ROD FOUND
- CUT CROSS FOUND OR SET
- PK NAIL FOUND OR SET
- 5/8" REBAR SET
- T1, T2, T3 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH THE GROUND TO TIE MONUMENTATION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1, BT2, BT3 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH ROD 20 INCHES BELOW GROUND TO TIE MONUMENTATION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, IDOT STD. 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET



THIS IS TO CERTIFY THAT I, DALE A. TERRY, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 28 AND 33, TOWNSHIP 45 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY; THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN HEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT ELGIN, ILLINOIS, THIS 12TH DAY OF DECEMBER, 1995 A.D.

Dale A. Terry
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2533

PREPARED BY:
HAMPTON, LENZINI, AND RENWICK INC.
380 SHEPARD DRIVE
ELGIN, ILLINOIS 60123-7010
ACCOUNT NO. 2-07-0044(g)



ALL BEARINGS ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE GRID.

REMAINDER		
LOT 136	0.0977 ha 0.2414 AC.	07-28-308-047
LOT 137	0.0260 ha 0.0643 AC.	07-28-308-046
LOT 138	0.0425 ha 0.1050 AC.	07-28-308-045
LOT 139	0.1454 ha 0.3593 AC.	07-28-308-044

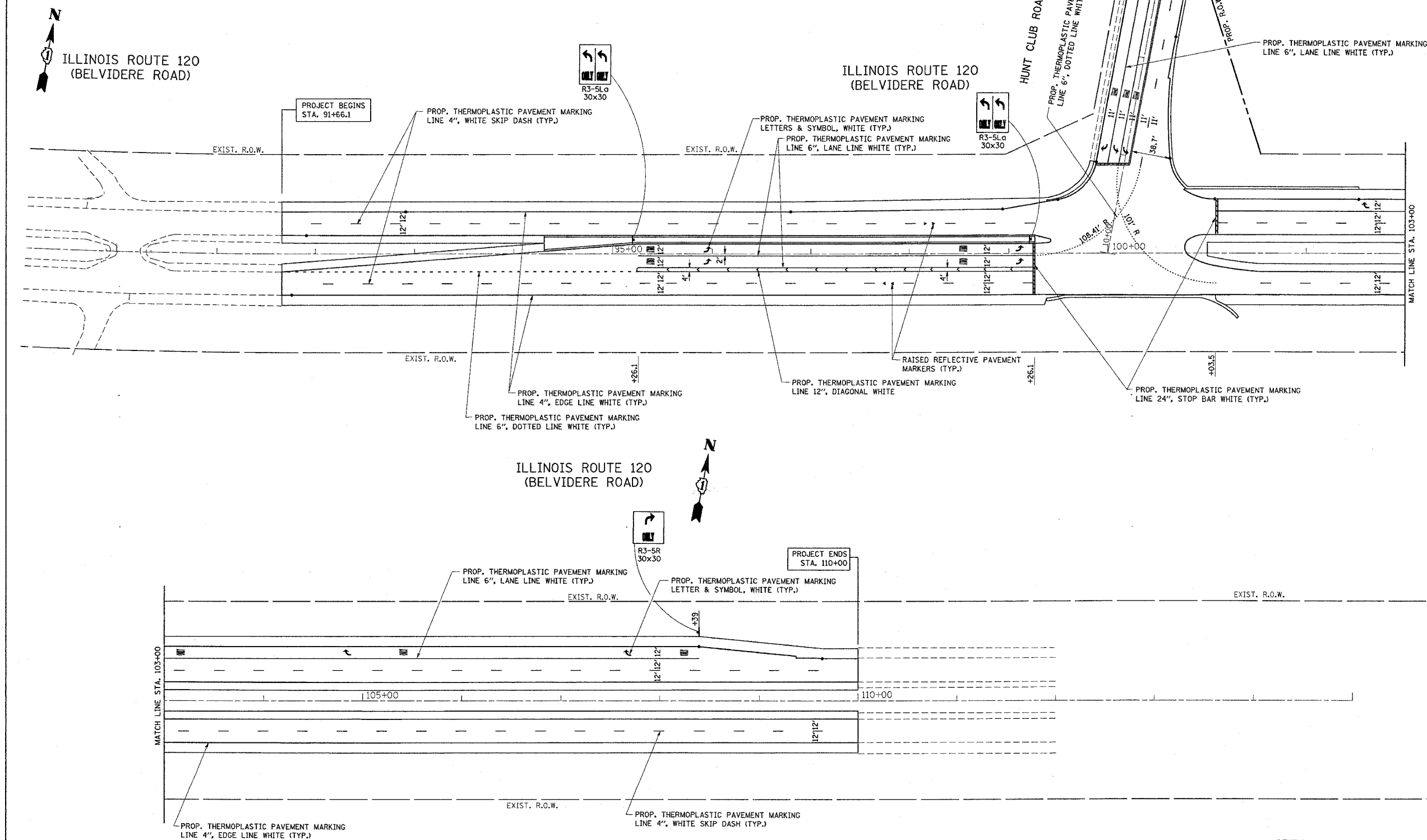
PARCEL NUMBER	OWNER	TOTAL HOLDINGS	AREA TAKEN	PREVIOUS DEDICATION	REMAINDER *	AREA OF EASEMENT	PURPOSE OF EASEMENT	PROPERTY ACQUIRED BY	TAX NUMBER
0103	NORTHERN TRUST BANK / LAKE FOREST NATIONAL ASSOC. TRUSTEE, TRUST NO. 6907	0.8120 ha 2.006 AC.	0.5004 ha 1.236 AC.	0	0.3116 ha 0.7700 AC.	NA	NA	3950074	**

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. 342 (BELVIDERE ROAD)

SECTION AT HUNT CLUB ROAD LAKE COUNTY
PROJECT JOB NO. R-91-009-91
STATION 9+700 TO STATION 9+900
SCALE: 1:500 SHEET 2 OF 2

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342		LAKE	70	31
STA. 90+00		TO STA. 112+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PLOT DATE = 10/6/2006
 FILE NAME = s:\projects\101803\101803.dgn
 USER NAME = sps10adst

NOTE:
 RAISED REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED THROUGHOUT THE IMPROVEMENT LIMITS. DOUBLE LANE LINE MARKERS SHALL BE PLACED. SEE DISTRICT DETAIL TC-11.

REVISIONS	
NAME	DATE

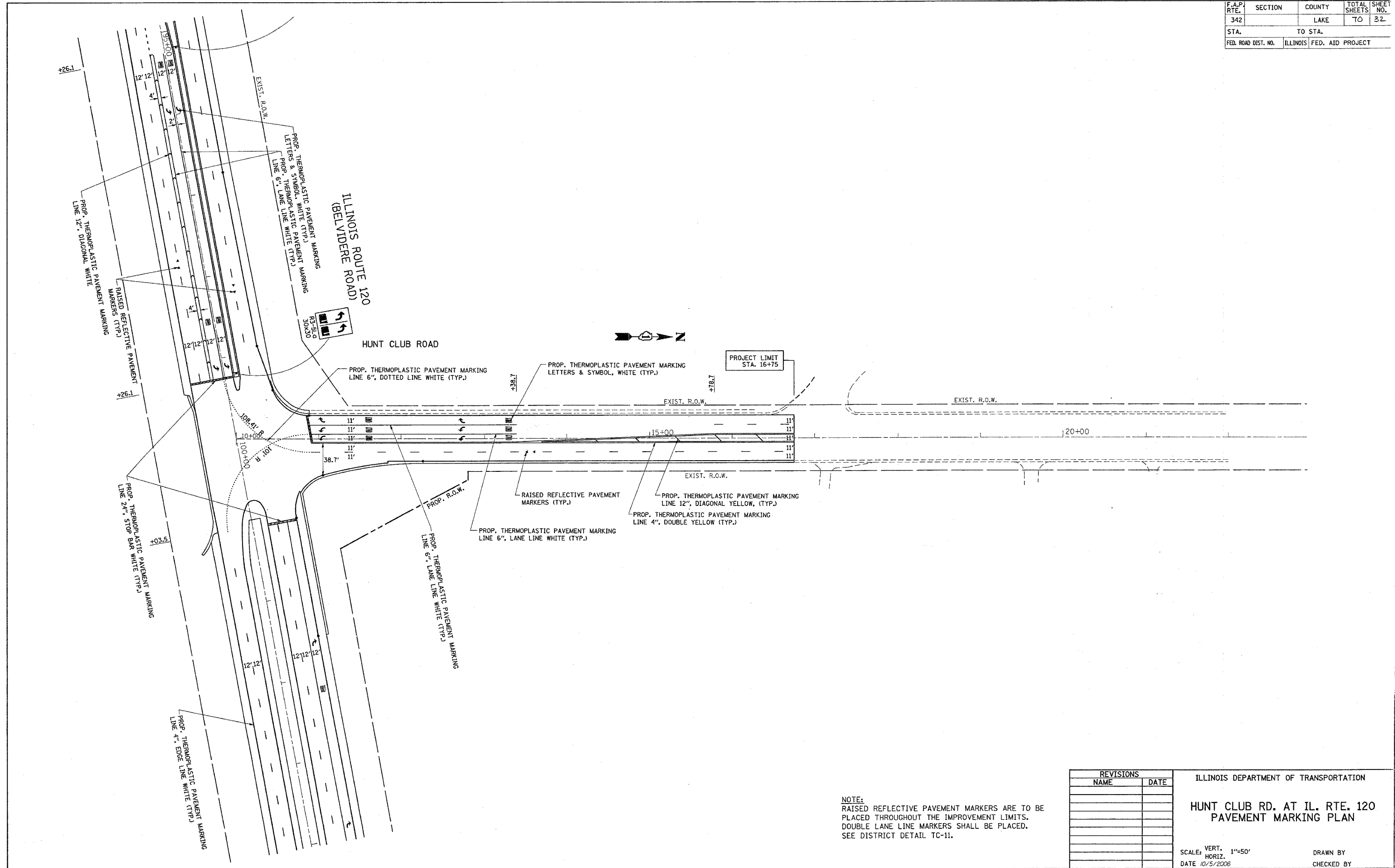
ILLINOIS DEPARTMENT OF TRANSPORTATION

**IL. RTE. 120 AT HUNT CLUB RD.
 PAVEMENT MARKING PLAN**

SCALE: VERT. 1"=50'
 HORIZ. 1"=50'
 DATE 10/6/2006

DRAWN BY
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342		LAKE	TO	32
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



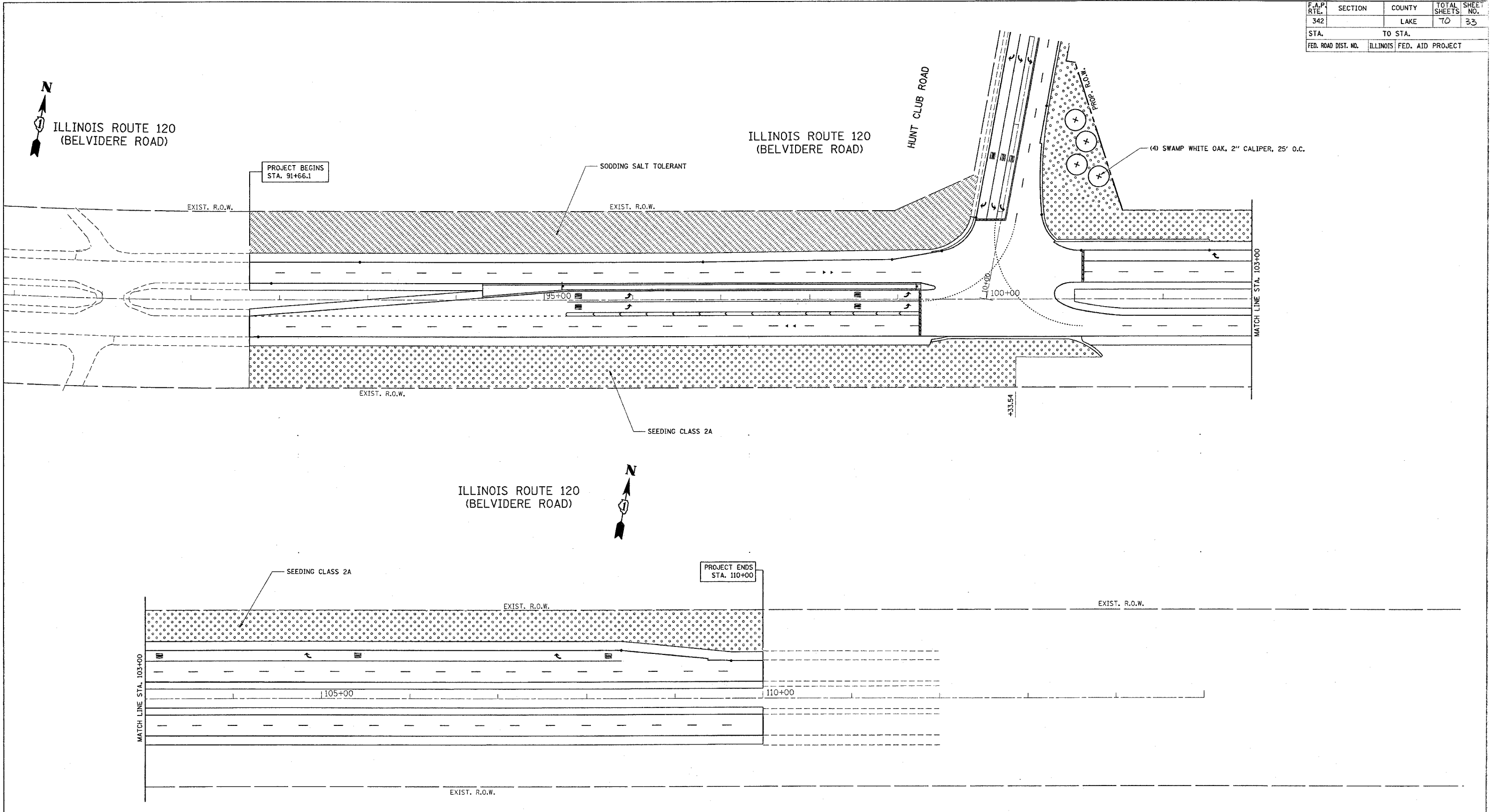
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 FILE NAME = c:\projects\1011823\hcl.pmk.dgn
 PLOT SCALE = 50.0000' / 1"
 USER NAME = dlmalick

NOTE:
 RAISED REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED THROUGHOUT THE IMPROVEMENT LIMITS. DOUBLE LANE LINE MARKERS SHALL BE PLACED. SEE DISTRICT DETAIL TC-11.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**HUNT CLUB RD. AT IL. RTE. 120
 PAVEMENT MARKING PLAN**
 VERT. SCALE: 1"=50'
 HORIZ. SCALE: 1"=50'
 DATE: 10/5/2006
 DRAWN BY: _____
 CHECKED BY: _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342		LAKE	70	33
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

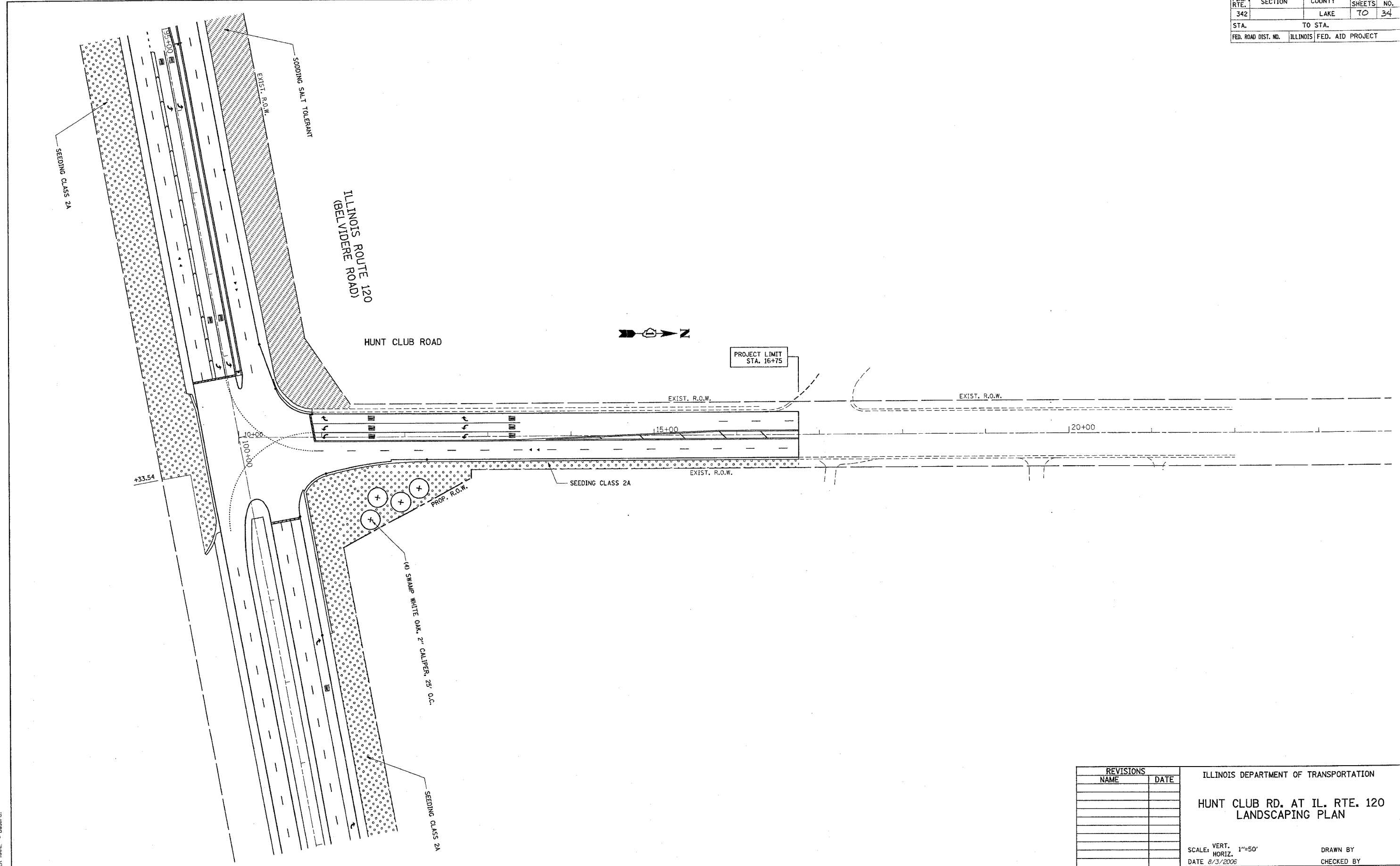


PLOT DATE = 8/3/2006
 PLOT SCALE = 1/8"=1'-0"
 USER NAME = bauer-dl

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**IL. RTE. 120 AT HUNT CLUB RD.
 LANDSCAPING PLAN**
 SCALE: VERT. 1"=50'
 HORIZ. DATE 8/3/2006
 DRAWN BY
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342		LAKE	70	34
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PLOT DATE = 8/3/2006
 PLOT SCALE = 50.0000 / IN.
 USER NAME = bauer-dl

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HUNT CLUB RD. AT IL. RTE. 120
 LANDSCAPING PLAN**

SCALE: VERT. 1"=50'
 HORIZ. 1"=50'

DATE 8/3/2006

DRAWN BY
 CHECKED BY

TEMPORARY TRAFFIC SIGNAL AND REMOVAL LEGEND

	PROPOSED	EXISTING		PROPOSED	EXISTING
TEMPORARY CONTROLLER CABINET			G.S. CONDUIT IN TRENCH OR PUSHED		
TEMPORARY SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE		
TEMPORARY TRAFFIC SIGNAL HEAD			COMMON TRENCH		
SPAN WIRE MOUNTED ORIGINAL LOCATION			UNIT DUCT		
TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION			PERFORMED DETECTOR LOOP		
TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED			MICROWAVE VEHICLE SENSOR		
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM			VIDEO DETECTOR		
EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED			CLOSED CIRCUIT TV		
STEEL MAST ARM ASSEMBLY AND POLE			EMERGENCY VEHICLE SYSTEM DETECTOR		
ALUMINUM MAST ARM ASSEMBLY AND POLE			CONFIRMATION BEACON		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE			TEMPORARY PEDESTRIAN PUSHBUTTON DETECTOR		
EXISTING STREET LIGHT, FOUNDATION AND LUMINAIRE TO REMAIN			DETECTOR LOOP, TYPE I		
HANDHOLE			DETECTION ZONE		
HEAVY-DUTY HANDHOLE					

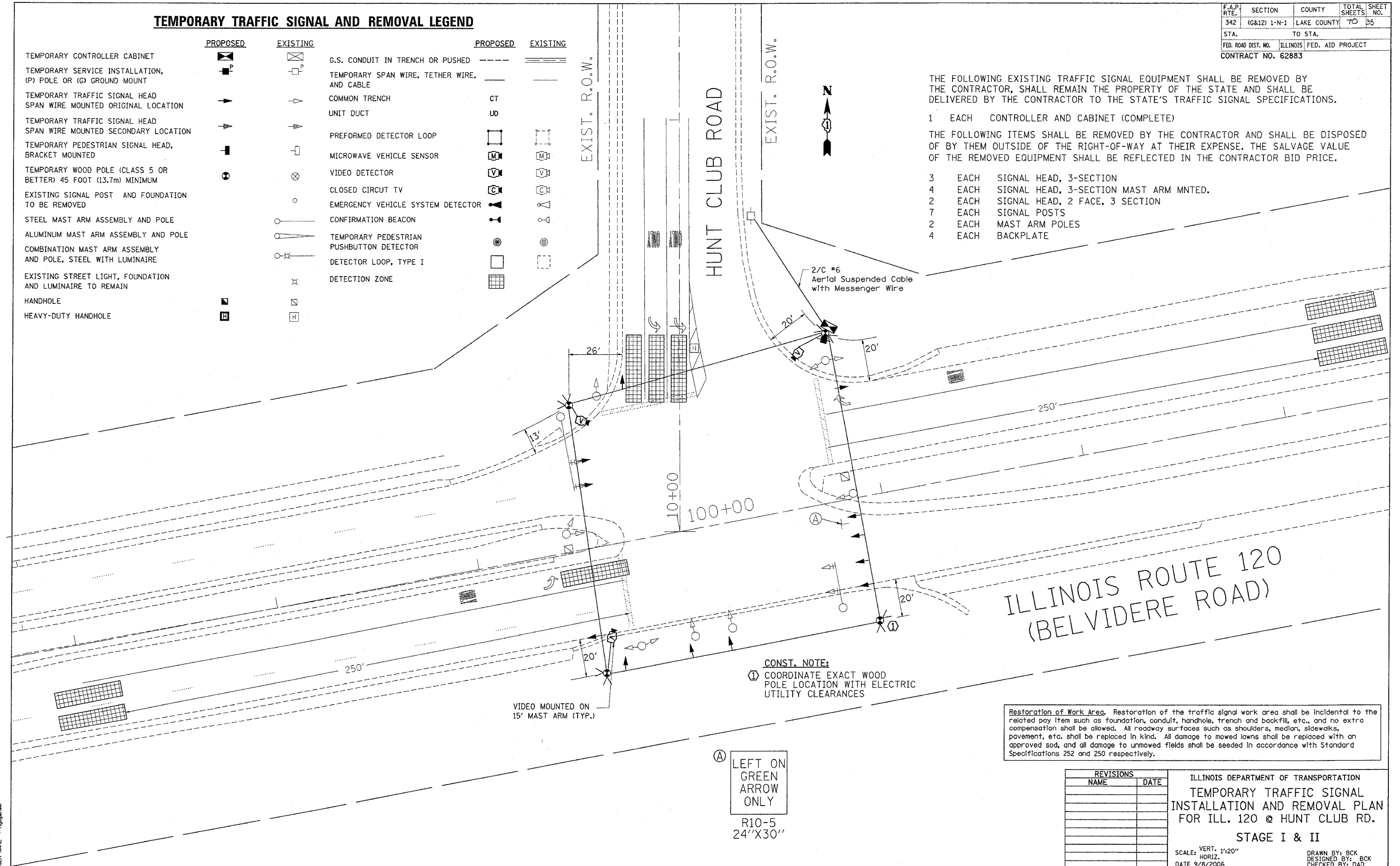
F.A.P. RTE. 1	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G&I2) 1-N-1	LAKE COUNTY	70	35
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62883				

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE'S TRAFFIC SIGNAL SPECIFICATIONS.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)

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

- 3 EACH SIGNAL HEAD, 3-SECTION
- 4 EACH SIGNAL HEAD, 3-SECTION MAST ARM MNTD.
- 2 EACH SIGNAL HEAD, 2 FACE, 3 SECTION
- 7 EACH SIGNAL POSTS
- 2 EACH MAST ARM POLES
- 4 EACH BACKPLATE



CONST. NOTE:
 ① COORDINATE EXACT WOOD POLE LOCATION WITH ELECTRIC UTILITY CLEARANCES

VIDEO MOUNTED ON 15' MAST ARM (TYP.)

ILLINOIS ROUTE 120
(BELVIDERE ROAD)

Ⓐ LEFT ON GREEN ARROW ONLY
 R10-5
 24"X30"

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, median, 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.

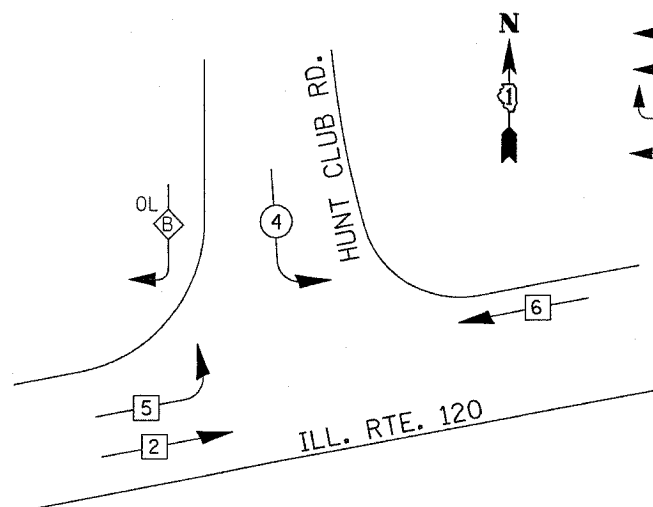
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TEMPORARY TRAFFIC SIGNAL
 INSTALLATION AND REMOVAL PLAN
 FOR ILL. 120 @ HUNT CLUB RD.
 STAGE I & II
 SCALE: VERT. 1"=20"
 HORIZ. DATE 9/8/2006
 DRAWN BY: BCK
 DESIGNED BY: BCK
 CHECKED BY: DAD

PLOT DATE = 9/9/2006
 PLOT SCALE = 20,000/1 IN.
 USER NAME = nguyennam

F.A.P. SHEETS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G&I2) 1-N-1	LAKE COUNTY	TO 36	
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62883				

CONTROLLER SEQUENCE



LEGEND

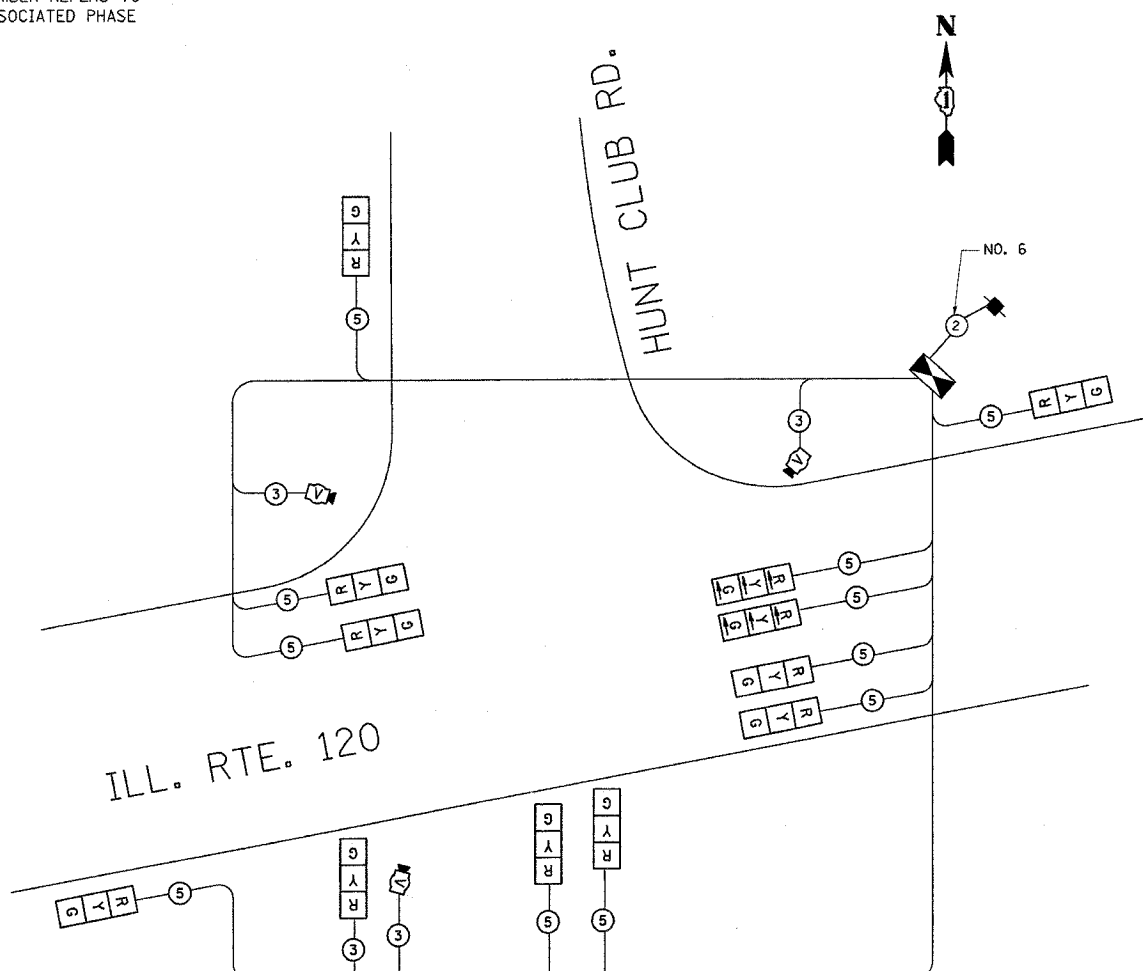
- ⊗ DUAL ENTRY PHASE
- ⊗ PROTECTED LEFT TURN PHASE
- OL OVERLAP
- ⊗ PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY PHASE DESIGNATION DIAGRAM

OVERLAP LETTER = PERMISSIVE PHASE + PROTECTED PHASE
 B = 4 + 5

TEMPORARY CABLE DIAGRAM LEGEND

	PROPOSED	EXISTING
TEMPORARY CONTROLLER CABINET	⊗	⊗
TEMPORARY SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	P	P
TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION, 12" (300 mm)	R	R
12" (300 MM) PEDESTRIAN SIGNAL SECTION	⊗	⊗
ELECTRIC CABLE IN CONDUIT, NO. 14, UNLESS OTHERWISE NOTED, NUMBER OF CONDUCTORS AS NOTED	2	2
PEDESTRIAN PUSHBUTTON DETECTOR	⊗	⊗
VEHICLE DETECTOR, INDUCTION LOOP	□	□
MICROWAVE VEHICLE SENSOR	M	M
VIDEO DETECTOR	V	V
CLOSED CIRCUIT TV	C	C
EMERGENCY VEHICLE SYSTEM DETECTOR	⊗	⊗
CONFIRMATION BEACON	⊗	⊗



TEMPORARY CABLE PLAN

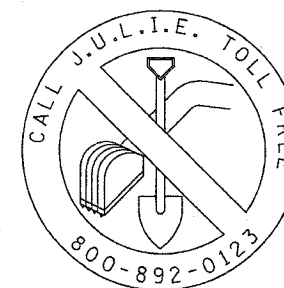
TEMPORARY SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL
TYPE	NO. LAMPS	WATTAGE (INCAND.)	WATTAGE (LED)	% OPERATION	WATTAGE
SIGNAL (RED)	12	135	17	0.50	810.00
(YELLOW)	12	135	25	0.25	405.00
(GREEN)	12	135	15	0.25	405.00
ARROW	21	135	12	0.10	283.50
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	2003.5

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2=
E - M. ARM POLE		SIGNAL POST	2 (1.0)	6m+L-0.6m=	
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
36" (900mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 WEST CENTER COURT
 SCHALMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY CONTACT: _____
 PHONE: _____
 COMPANY: _____



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TEMPORARY CABLE PLAN
 AND TEMPORARY PHASE
 DESIGNATION DIAGRAM FOR
 IL. 120 @ HUNT CLUB RD.
 STAGE I & II

SCALE: NONE
 DATE 9/7/2006
 DRAWN BY: BCK
 DESIGNED BY: BCK
 CHECKED BY: DAD

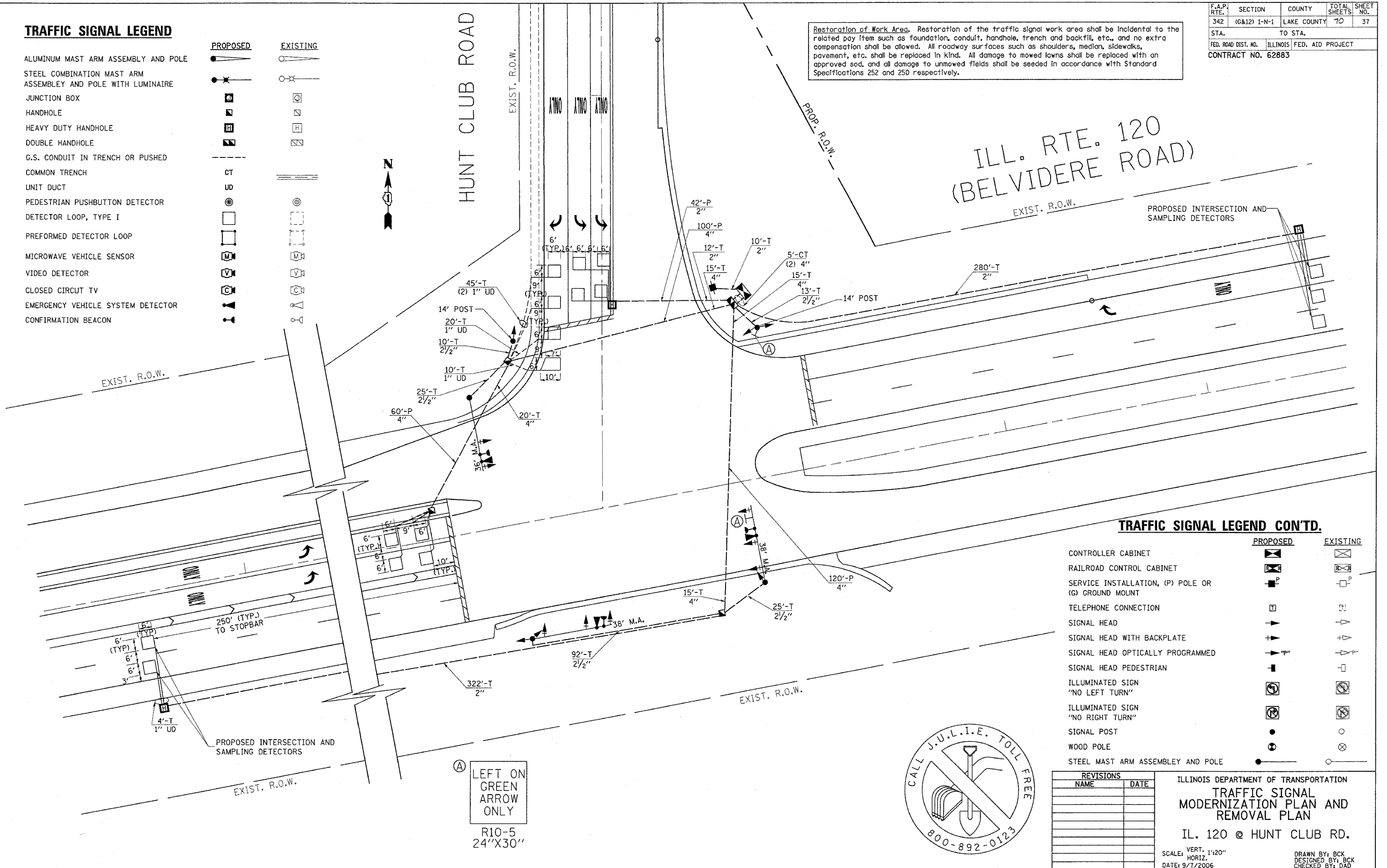
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G&I) 1-N-1	LAKE COUNTY	70	37
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62883				

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
ALUMINUM MAST ARM ASSEMBLY AND POLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE		
JUNCTION BOX		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH OR PUSHED		
COMMON TRENCH	CT	
UNIT DUCT	UD	
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP, TYPE I		
PREFORMED DETECTOR LOOP		
MICROWAVE VEHICLE SENSOR		
VIDEO DETECTOR		
CLOSED CIRCUIT TV		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		

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, median, 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.

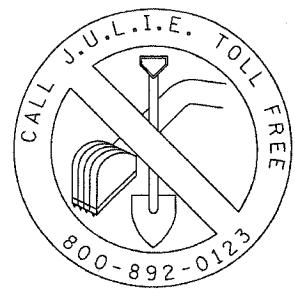
ILL. RTE. 120
(BELVIDERE ROAD)



TRAFFIC SIGNAL LEGEND CONT'D.

	PROPOSED	EXISTING
CONTROLLER CABINET		
RAILROAD CONTROL CABINET		
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT		
TELEPHONE CONNECTION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD OPTICALLY PROGRAMMED		
SIGNAL HEAD PEDESTRIAN		
ILLUMINATED SIGN "NO LEFT TURN"		
ILLUMINATED SIGN "NO RIGHT TURN"		
SIGNAL POST		
WOOD POLE		
STEEL MAST ARM ASSEMBLY AND POLE		

Ⓐ LEFT ON GREEN ARROW ONLY
R10-5
24"X30"

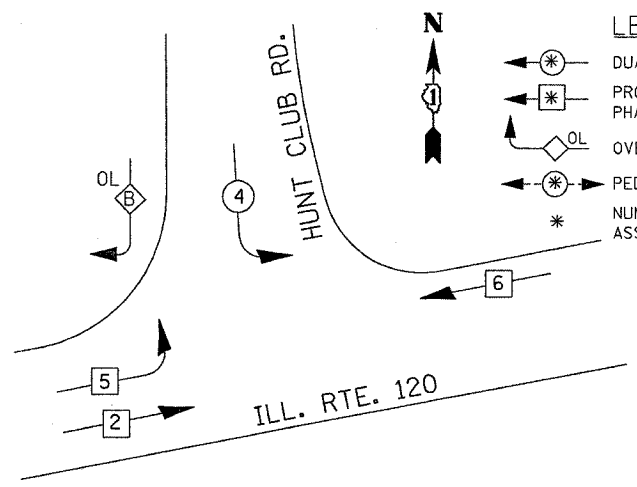


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL MODERNIZATION PLAN AND REMOVAL PLAN
IL. 120 @ HUNT CLUB RD.
SCALE: VERT. 1"=20"
HORIZ. 1"=40"
DATE: 9/7/2006
DRAWN BY: BCK
DESIGNED BY: BCK
CHECKED BY: DAD

PLOT DATE = 9/7/2006
PLOT SCALE = 24"X30" / 1"=40"
USER NAME = nguyen

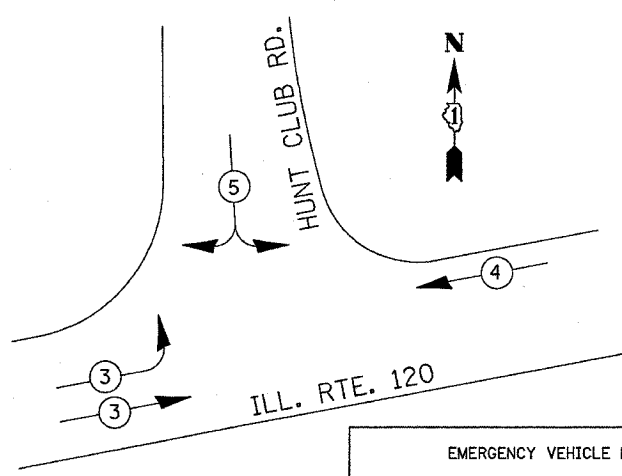
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G&J2) 1-N-1	LAKE COUNTY	70	38
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 62883				



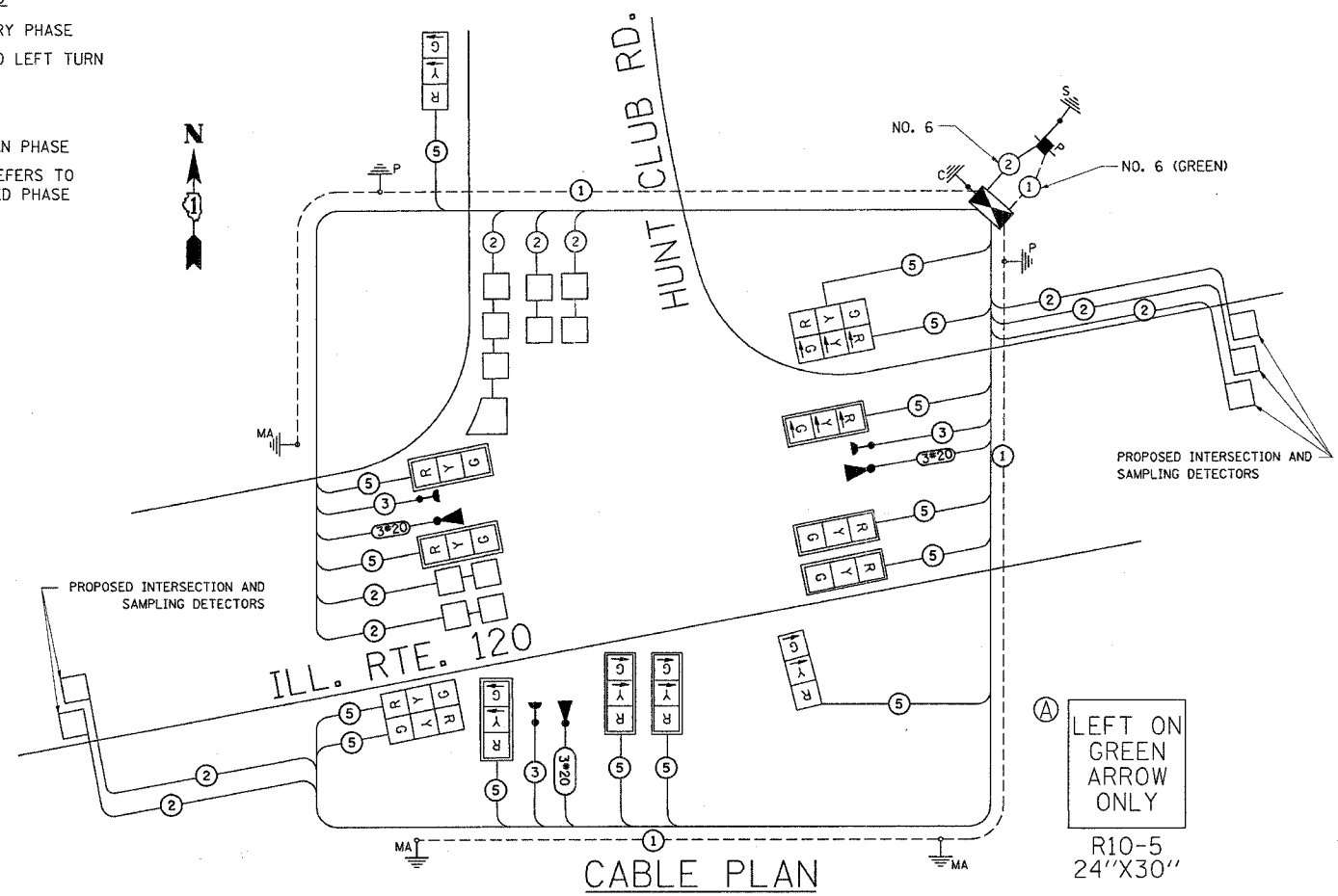
PHASE DESIGNATION DIAGRAM

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			



CABLE PLAN

CABLE PLAN LEGEND

	PROPOSED	EXISTING		PROPOSED	EXISTING
CONTROLLER CABINET			12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		
RAILROAD CONTROL CABINET			12" (300mm) TRAFFIC SIGNAL SECTION		
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT			12" (300mm) PEDESTRIAN SIGNAL SECTION		
TELEPHONE CONNECTION			ILLUMINATED SIGN "NO LEFT TURN"		
GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			ILLUMINATED SIGN "NO RIGHT TURN"		
FIBER OPTIC CABLE IN CONDUIT, NUMBER OF FIBERS AS NOTED			PUSHBUTTON DETECTOR		
ELECTRIC CABLE IN CONDUIT, NO. 14, UNLESS OTHERWISE NOTED. NUMBER OF CONDUCTORS AS NOTED			DETECTOR LOOP		
GROUND CABLE IN CONDUIT NO. 6 COPPER (GREEN)			PREFORMED DETECTOR LOOP		
SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD			MICROWAVE VEHICLE SENSOR		
			VIDEO DETECTOR		
			CLOSED CIRCUIT TV		
			EMERGENCY VEHICLE SYSTEM DETECTOR		
			CONFIRMATION BEACON		

ITEM	UNIT	QUANTITY
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1
SIGN PANEL - TYPE 2	SQ. FT.	31.75
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	624
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	165
CONDUIT IN PUSH, 4" DIA., GALVANIZED STEEL	FOOT	280
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	65
HANDHOLE	EACH	3
HEAVY-DUTY HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	934
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	FOOT	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3231
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1275
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	10
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	751.5
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14FT.	FOOT	2
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE D	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIA.	FOOT	30
CONCRETE FOUNDATION, TYPE E 36-INCH DIA.	FOOT	15
SIGNAL HEAD, L.E.D. 2-FACE, 3 SECTION, BRACKET MNTD.	FOOT	2
SIGNAL HEAD, L.E.D. 1-FACE, 3 SECTION, MAST ARM MNTD.	EACH	8
SIGNAL HEAD, L.E.D. 1-FACE, 3 SECTION, BRACKET MNTD.	EACH	2
INDUCTIVE LOOP DETECTOR	EACH	10
DETECTOR LOOP, TYPE I	EACH	610
SERVICE INSTALLATION, POLE MOUNT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
* LIGHT DETECTOR	EACH	3
* LIGHT DETECTOR AMPLIFIER	EACH	1
* ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	800
* ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	800

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE (INCAND.)	WATTAGE LED	% OPERATION	
SIGNAL (RED)	14	135	17	0.50	119.00
(YELLOW)	14	135	25	0.25	87.50
(GREEN)	14	135	15	0.25	52.50
ARROW	16	135	12	0.10	19.20
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
ENERGY COSTS TO:	TOTAL =				378.20

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'±L-2'± (6m±L-0.6m)±
E - M. ARM POLE		SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
		CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
		FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)

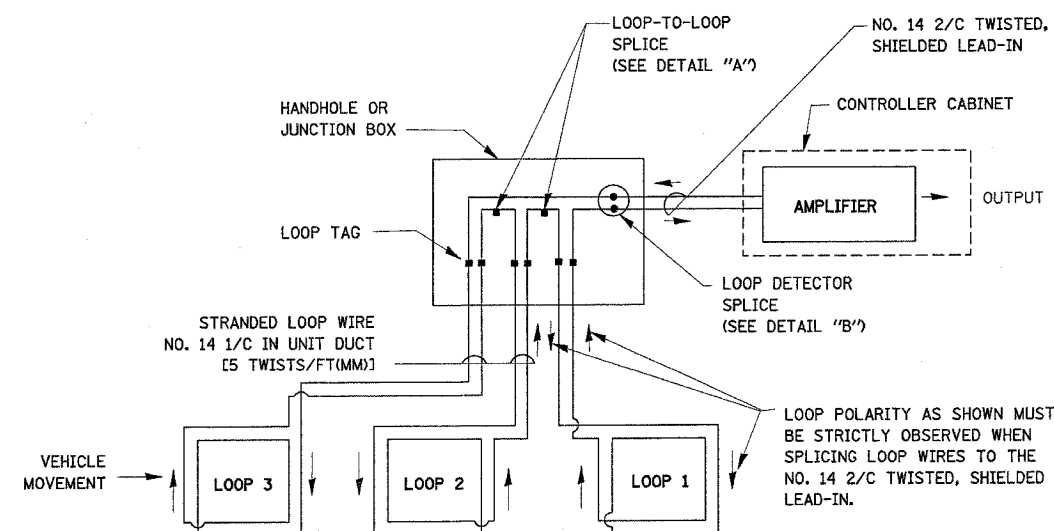
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES
 IL. 120 @ HUNT CLUB RD.
 SCALE: VERT. 1"=20"
 HORIZ. DATE 9/7/2006
 DRAWN BY: BCK
 DESIGNED BY: BCK
 CHECKED BY: DAD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G&I2) 1-N-1	LAKE	70	40
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT
CONTRACT NO. 62863				

LOOP DETECTOR NOTES

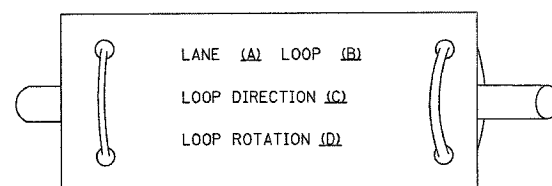
- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED 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.
- 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.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- 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.
- 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.



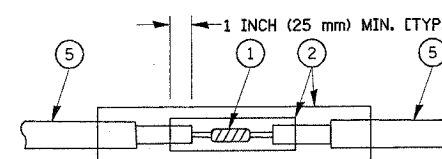
DETECTOR LOOP WIRING SCHEMATIC

- 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.

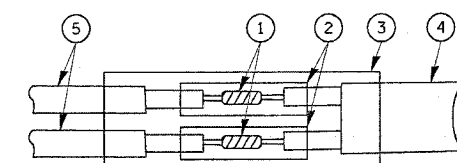
LOOP LEAD-IN CABLE TAG



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



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- NO. 14 2/C TWISTED, SHIELDED CABLE.
- LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT ONE
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

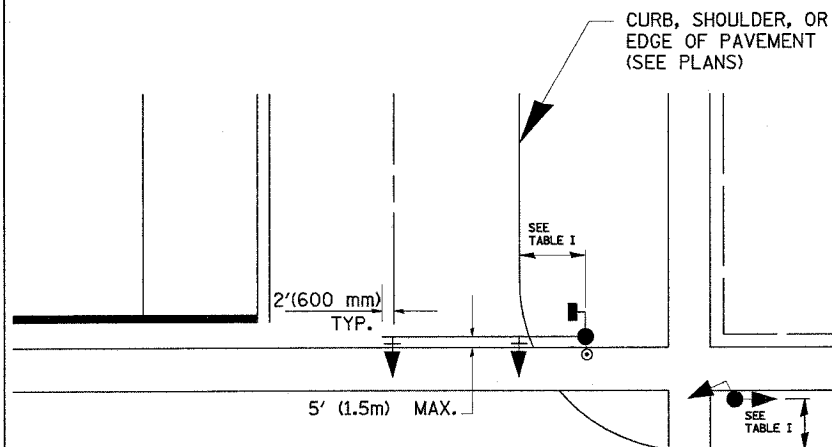
SCALE: VERT. NONE
HORIZ.
DATE 1-01-02

DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 1 OF 4

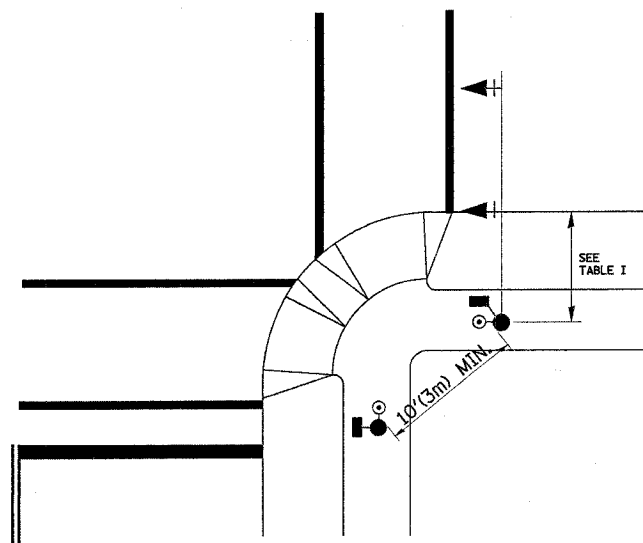
F.A.U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G&I2) 1-N-1	LAKE	70	41
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62883				

TRAFFIC SIGNAL MAST ARM AND POST

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR



PEDESTRIAN SIGNAL PUSHBUTTON



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

NOTES:

- AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION, EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.
 AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.
 PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:
 A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
 B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
 C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
 D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
 E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK
- PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

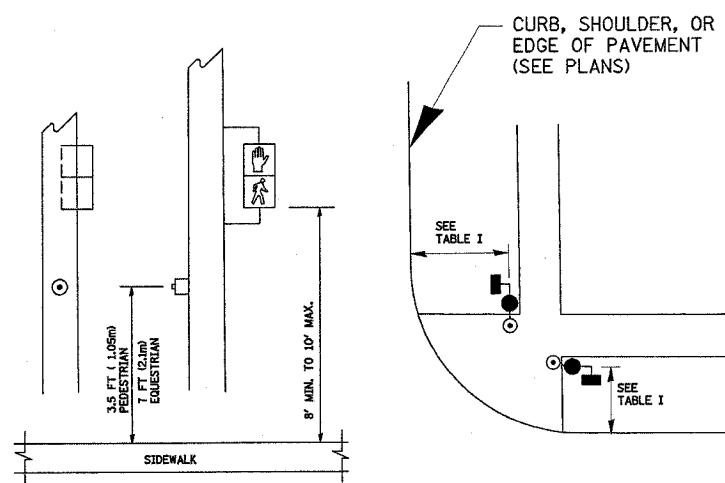


TABLE I

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

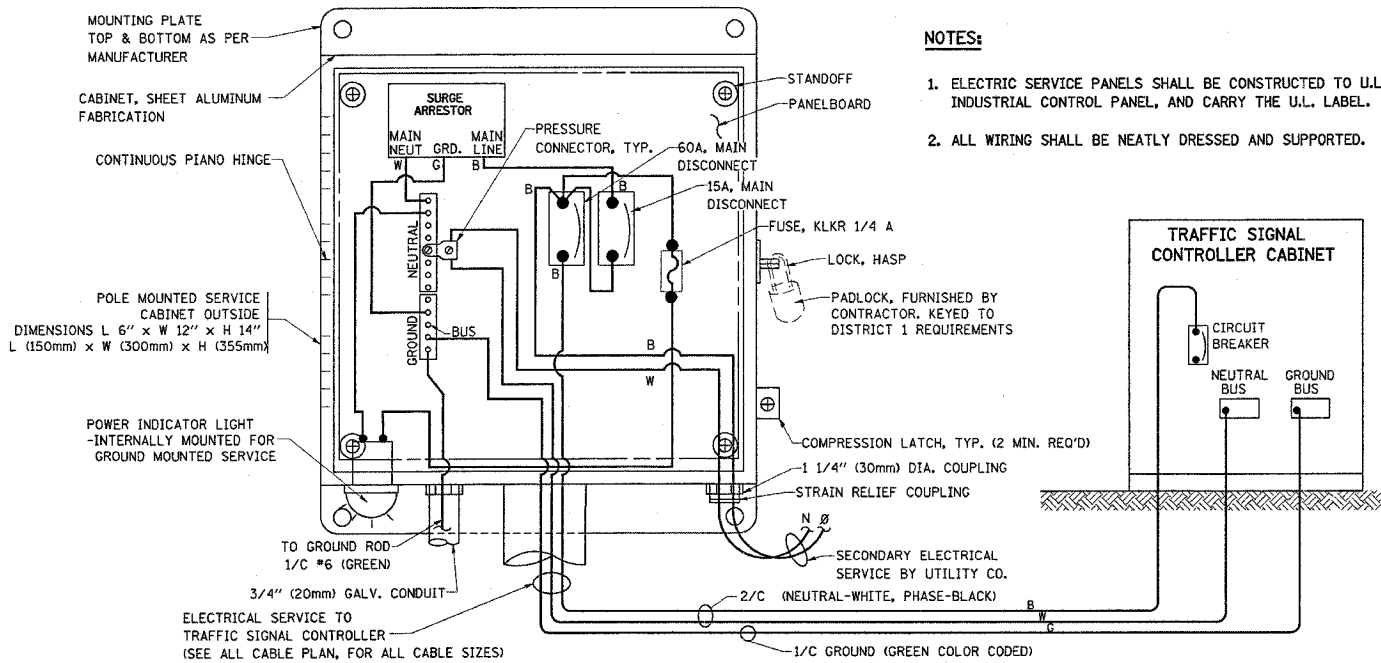
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT 1
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

SCALE: VERT. NONE
 HORIZ. NONE
 DATE 1-01-02

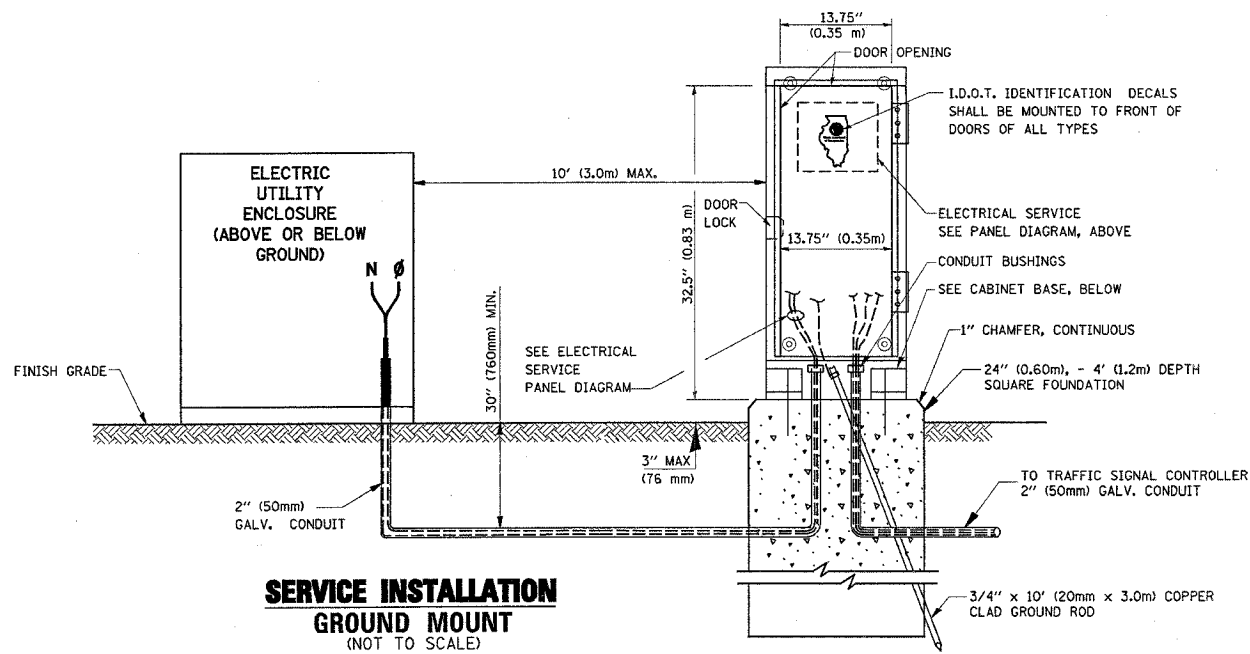
DRAWN BY: RWP
 DESIGNED BY: DAD
 CHECKED BY: DAZ
 SHEET 2 OF 4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G&I) 1-N-1	LAKE	70	42
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62883				

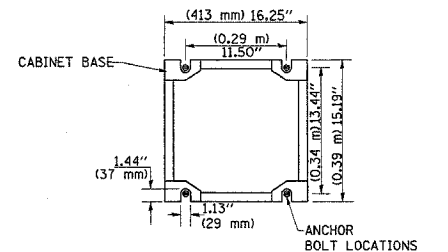


- NOTES:**
1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
 2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

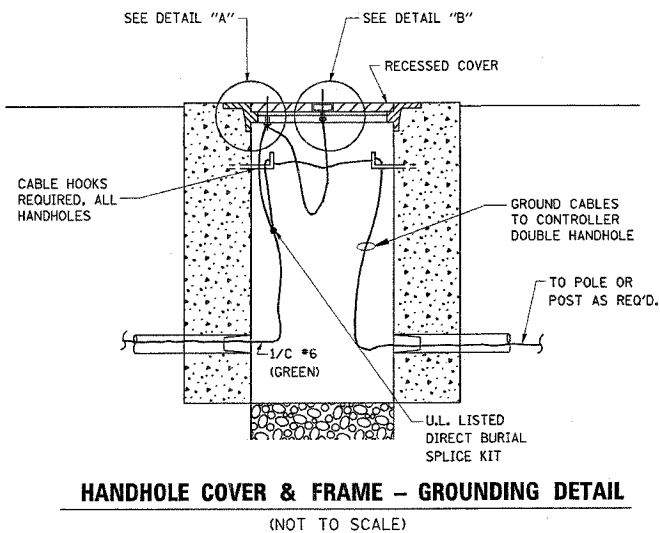
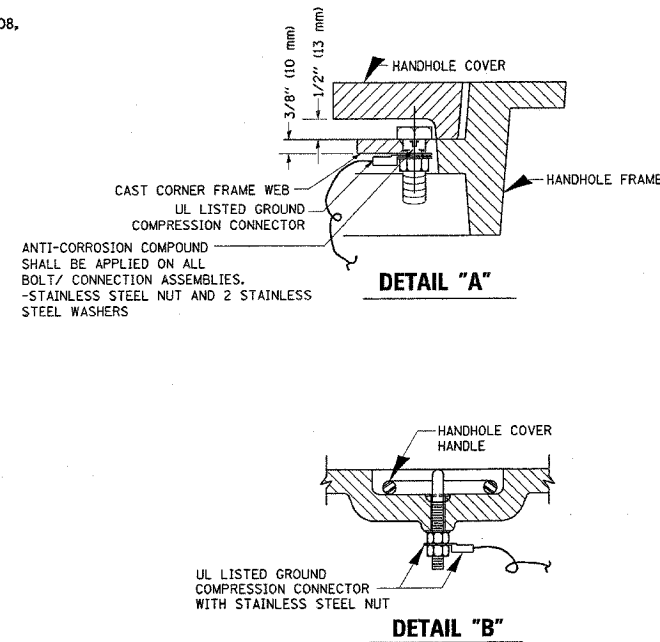
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



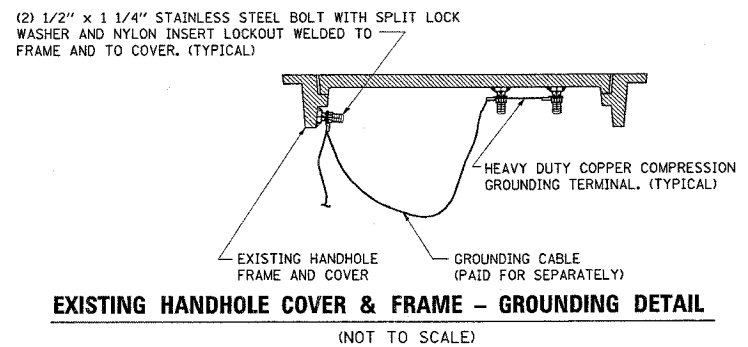
SERVICE INSTALLATION GROUND MOUNT
 (NOT TO SCALE)



CABINET – BASE BOLT PATTERN
 (NOT TO SCALE)



HANDHOLE COVER & FRAME – GROUNDING DETAIL
 (NOT TO SCALE)

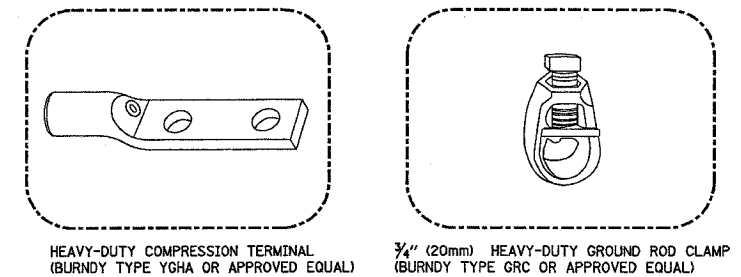


EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL
 (NOT TO SCALE)

NOTES:

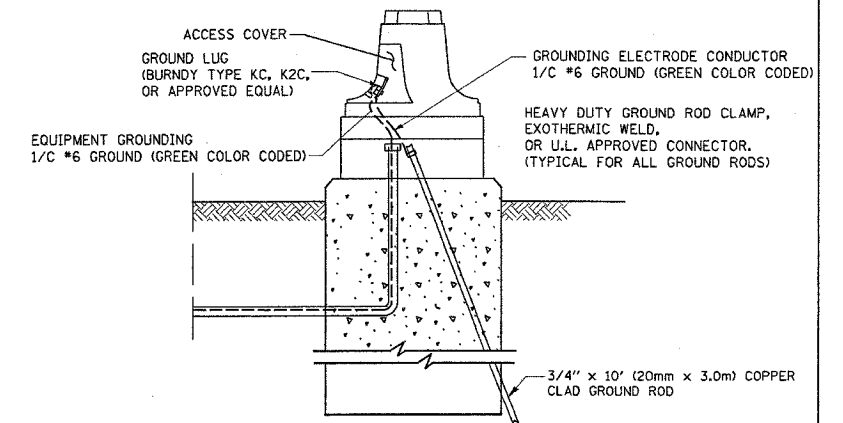
GROUNDING SYSTEM

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



NOTES:

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



MAST ARM POLE / POST-GROUNDING DETAIL
 (NOT TO SCALE)

REVISIONS	
NAME	DATE

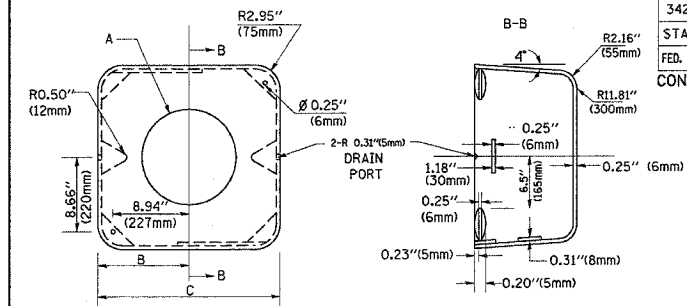
ILLINOIS DEPARTMENT OF TRANSPORTATION
 DISTRICT 1
 STANDARD TRAFFIC SIGNAL
 DESIGN DETAILS

SCALE: VERT. NONE
 HORIZ. NONE
 DATE 1-01-02

DRAWN BY: RWP
 DESIGNED BY: DAD
 CHECKED BY: DAZ
 SHEET 3 OF 4

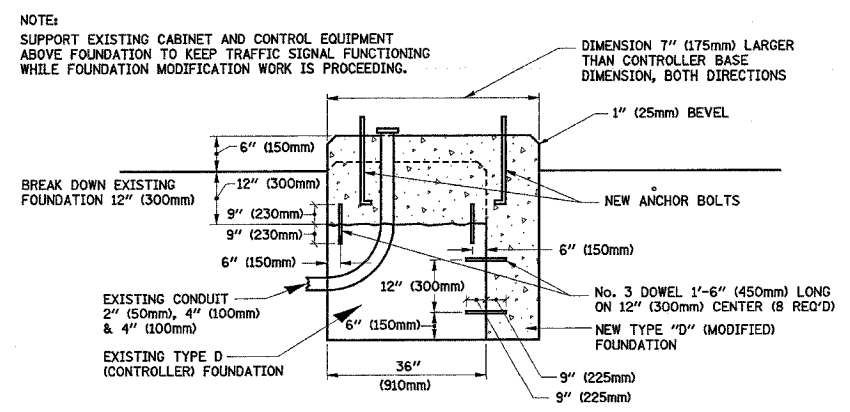
F.A.P. R/E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G&I) 1-N-1	LAKE	TO	43
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		CONTRACT NO. 62883		

MATERIAL:
 - ASTM A48 CLASS 30 GREY IRON
 - ASTM A123 HOT DIPPED GALVANIZED



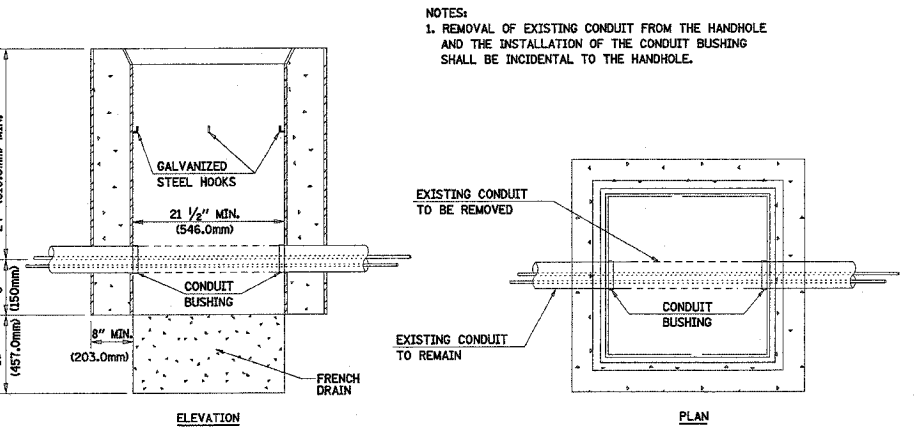
TYPE	A	B	C	HEIGHT	WEIGHT
I	Ø 10.125" (257mm)	9.5" (241mm)	19" (483mm)	12" (300mm)	24kg
II	Ø 11.125" (283mm)	10.75" (273mm)	21.5" (546mm)	12" (300mm)	26kg

SHROUD DETAIL



MODIFY EXISTING TYPE 'D' FOUNDATION

(NOT TO SCALE)

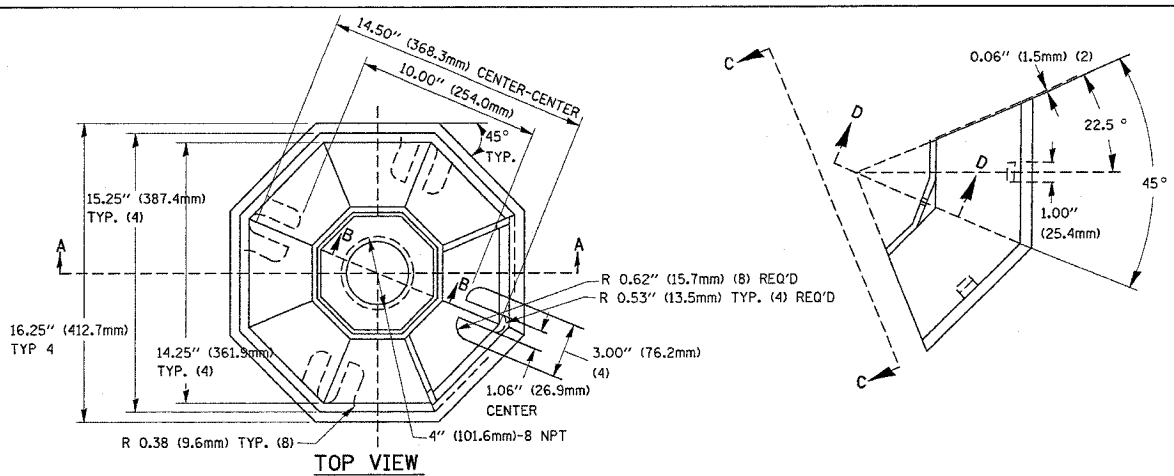


DETAIL HANDHOLE TO INTERCEPT EXISTING CONDUIT

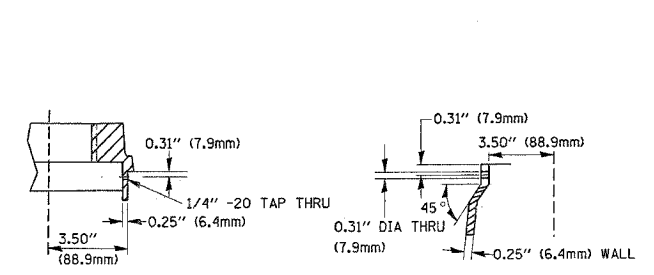
ILLINOIS DEPARTMENT OF TRANSPORTATION
 DISTRICT 1
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

REVISIONS	
NAME	DATE

SCALE: VERT. NONE
 HORIZ. NONE
 DATE: 1-01-02
 DRAWN BY: RWP
 DESIGNED BY: DAD
 CHECKED BY: DAZ
 SHEET 4 OF 4

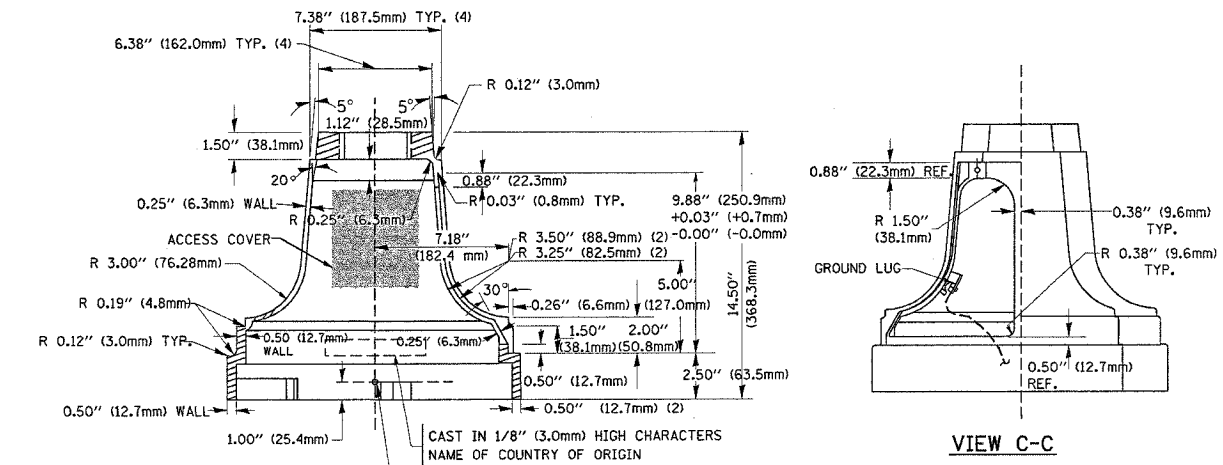


TOP VIEW



SECTION B-B

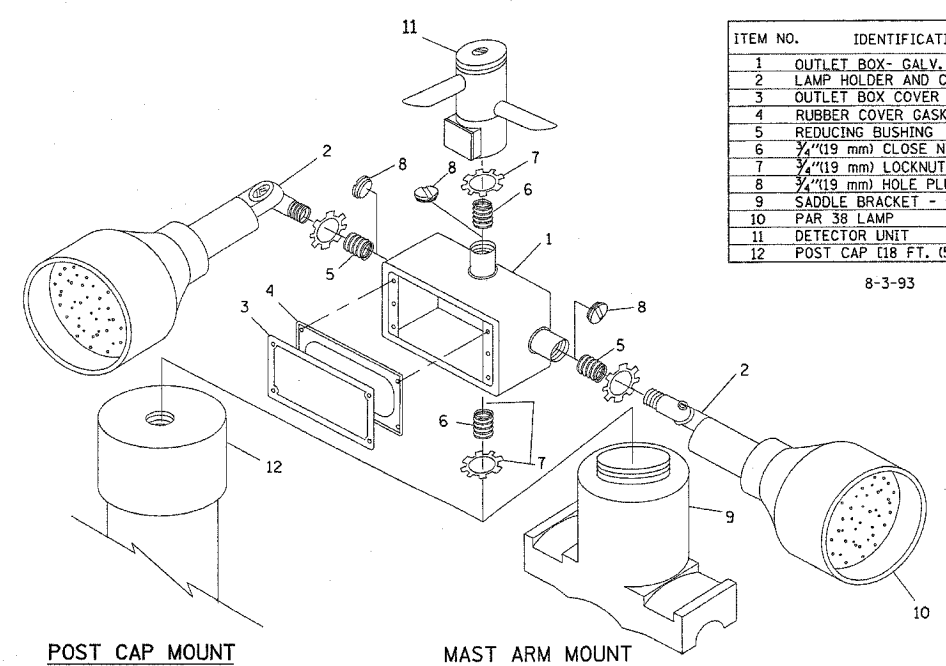
SECTION D-D



SECTION A-A

VIEW C-C

TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



POST CAP MOUNT

MAST ARM MOUNT

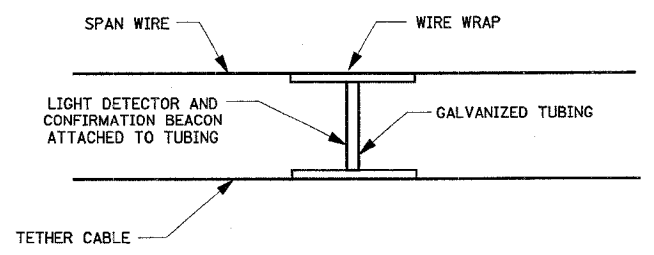
EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

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	PAR 38 LAMP
11	DETECTOR UNIT
12	POST CAP (18 FT. (5.4 m) POST MIN.)

8-3-93

NOTES:

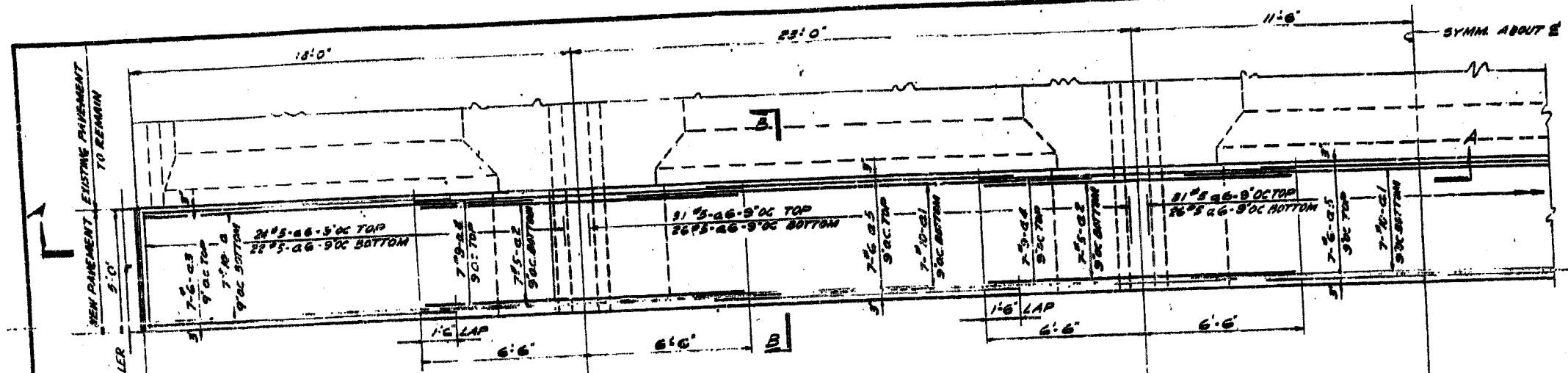
- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
- ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
 ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
 ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION 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.



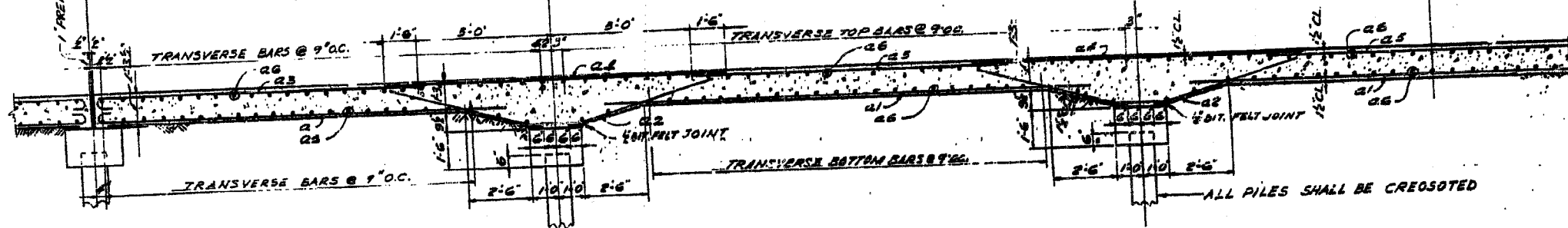
LIGHT DETECTOR AND CONFIRMATION BEACON MOUNTING FOR TEMPORARY TRAFFIC SIGNALS

(NOT TO SCALE)

c:\projects\tr-office\060003\1120ehunt.dgn



PLAN OF TYPICAL UNIT 'A'
SCALE 3/8" = 1 FOOT

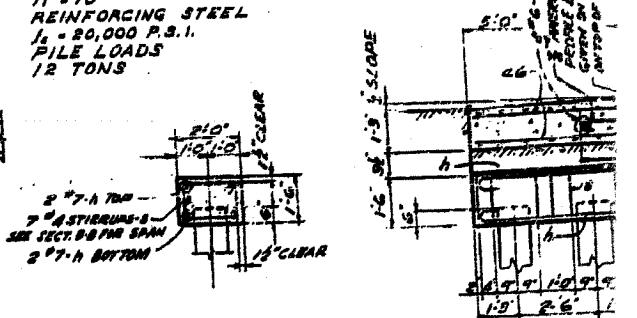


SECTION A-A

NOTES!
CLASS 'X' CONCRETE SHALL BE USED THROUGHOUT.
LENGTHS OF PILES GIVEN IN TABLE ARE DRIVEN
LENGTHS OF SOUTH PILE IN EACH EXISTING BENT
AS TAKEN FROM RECORDS OF THE DEPARTMENT
DRIVE 3 TEST PILES AS DIRECTED BY THE ENGINEER
BEFORE ORDERING REMAINDERS OF PILES.
ALL PILES TO HAVE A MINIMUM CAPACITY OF 12 TONS
PROVE ELEVATIONS AS GIVEN ARE TO TOP OF SOUTH
EDGE OF EXISTING CONCRETE SLAB AS INTERPOLATED
FROM FIELD SURVEY AT EVEN STATIONS.
TOP OF NEW CONCRETE SLAB SHALL BE FLUSH WITH
TOP OF EXISTING SLAB AT THEIR JUNCTION.
CONTRACTOR SHALL PLACE THE CONCRETE FOR THE NEW
3 FOOT WIDE SLAB BETWEEN CONCRETE EXPANSION
JOINTS IN THE CONTINUOUS OPERATIONAL
PROVISIONS.
FINISH TOP OF PILE CAP SMOOTH WITH STEEL TROWEL
AT EXPANSION JOINTS. PLACE LAYER OF ROLL ROOFING
PAPER BETWEEN CAP AND SLAB
EXCAVATION REQUIRED FOR PLACING PILE
CAPS AND BENTS TO BE INCIDENTAL TO
THE CONTRACT.

DESIGN LOADS
L.L. H20-R18-44
D.L. 1.5' BITUMINOUS WEARING SURFACE

DESIGN STRESSES
CONCRETE
f_c = 3,500 P.S.I.
f_t = 1,400 P.S.I.
n = 10
REINFORCING STEEL
f_s = 20,000 P.S.I.
PILE LOADS
12 TONS



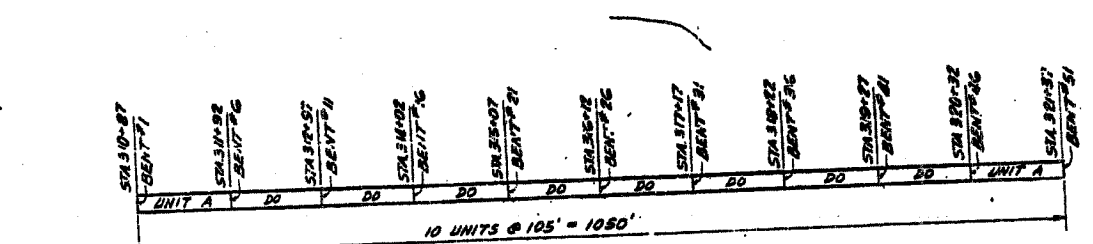
SECTION THRU PILE CAP SECTION

TABLE SHOWING LENGTHS OF PILES
AT BENTS NO.1 TO NO.51

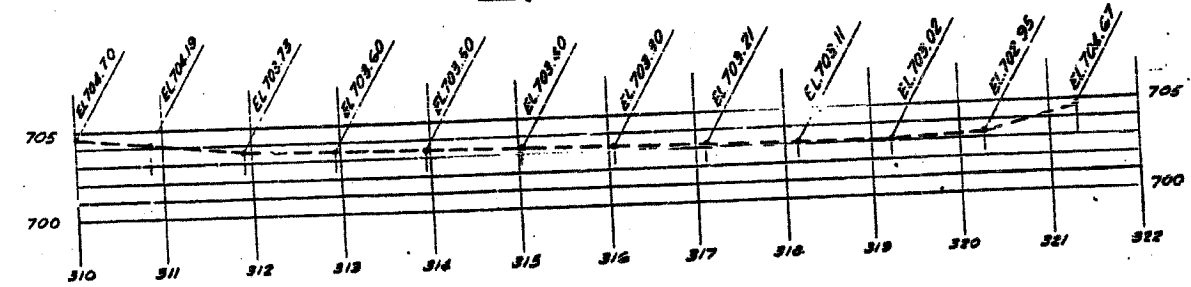
BENT	STATION	LENGTH	BENT	STATION	LENGTH
1	310+27	15	27	316+30	25
2	311+28	18	28	316+58	28
3	311+28	18	29	316+76	28
4	311+28	18	30	316+89	25
5	311+28	20	31	317+17	25
6	311+28	20	32	317+35	25
7	312+10	20	33	317+38	28
8	312+23	20	34	317+37	28
9	312+26	20	35	318+26	28
10	312+29	20	36	318+28	28
11	312+29	20	37	318+40	28
12	312+18	20	38	318+23	28
13	312+28	20	39	318+26	28
14	312+28	20	40	318+26	28
15	312+28	20	41	318+28	28
16	312+28	20	42	318+28	28
17	312+28	20	43	318+28	28
18	312+28	20	44	318+28	28
19	312+28	20	45	318+28	28
20	312+28	20	46	318+28	28
21	312+28	20	47	318+28	28
22	312+28	20	48	318+28	28
23	312+28	20	49	318+28	28
24	312+28	20	50	318+28	28
25	312+28	20	51	318+28	28
26	312+28	20			

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
CLASS X CONCRETE	CKYDS.	2976
REINFORCEMENT BARS	LBS.	70,310
TEST PILES (TIMBER)	EACH	3
FURNISHING CRESOTED PILES UP TO 20 FT.	LIN. FT.	1210
FURNISHING CRESOTED PILES 20.1 TO 36 FT.	LIN. FT.	1026
DRIVING TIMBER PILES	LIN. FT.	2306



PLAN

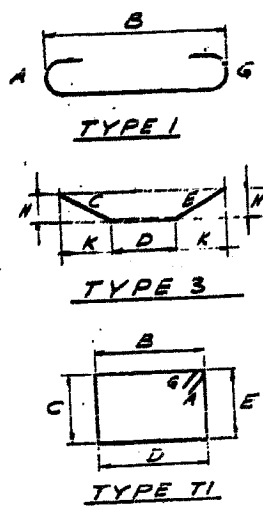


PROFILE ALONG EDGE OF PAVEMENT

FOR INFORMATION ONLY

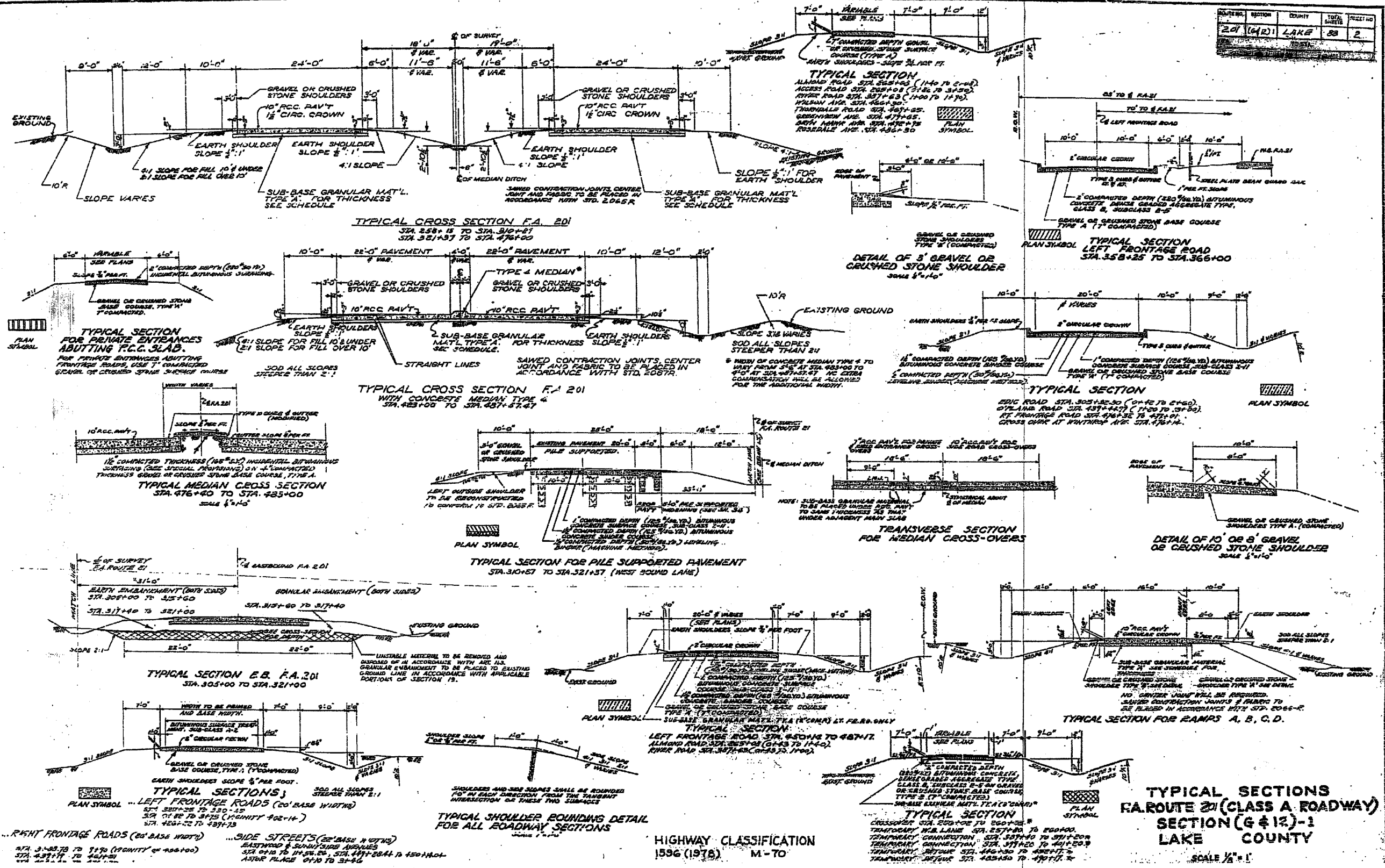
REINFORCEMENT B

NO.	REQ'D	LENGTH	AMOUNT	A	B	C	L
TOTAL REQUIRED FOR STRAIGHT							
210	10	19'5"	a1				
280	10	13'0"	a4				
290	16	19'0"	a5				
BENT BARS							
140	10	17'7"	a	1	11'5"	16'2"	
204	27	6'4"	a	1	10'	2'8"	
140	16	13'6"	a5	1	8'	12'10"	
280	15	13'4"	a2	3			5'9"
357	24	6'3"	5	71	42	1'9"	1'3"



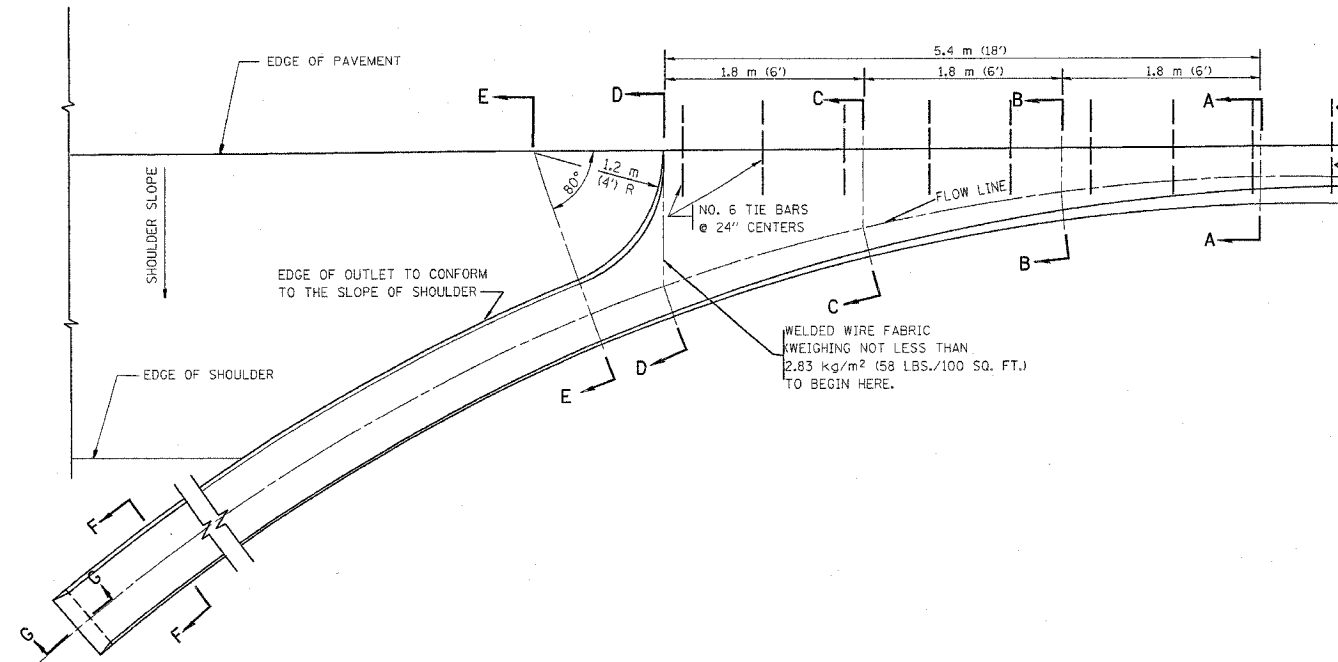
SPECI/
PILE SUPPORT
FA. ROUTE 2
LA

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
201 (A) LAKE	SS	2	2



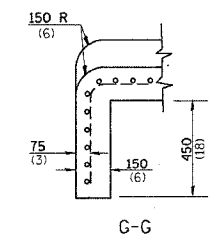
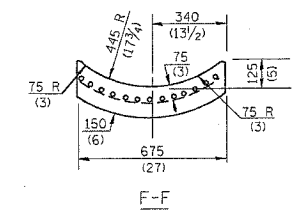
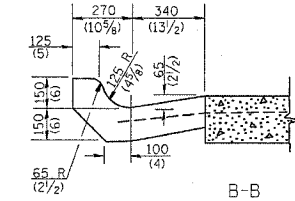
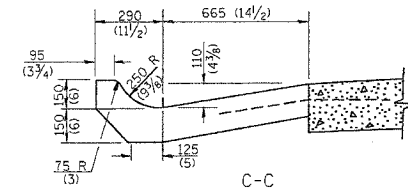
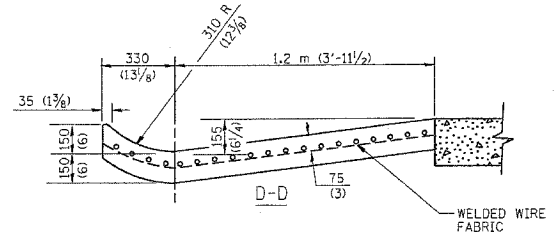
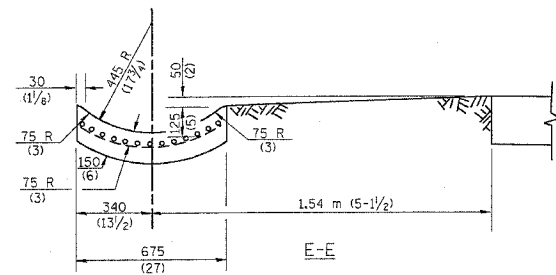
FOR INFORMATION ONLY

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G+12)-N-1	LaKE	70	46
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



A-A *

* DIMENSIONS OF THE CURB & GUTTER AT SECTION A-A ARE SHOWN ON STATE STANDARD 606001. FOR DETAILS OF OUTLET FOR CONCRETE CURB & GUTTER, TYPE B-15.60 (B-6.24) SEE STATE STANDARD 606006.



GENERAL NOTES

GUTTER OUTLET SHALL BE TIED TO THE PAVEMENT IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINT SHOWN ON STANDARD 420001.

TIE BARS SHALL BE NO. 20 (NO.6) AT 600 (24) CENTERS UNLESS OTHERWISE SHOWN.

IF THE AVERAGE GRADE OF PAVEMENT FOR THE DISTANCE FROM SECTION A-A TO D-D EXCEEDS 2%, THIS DISTANCE SHALL BE INCREASED 1.8 m (6') FOR EACH 1% INCREASE IN GRADE.

QUANTITIES

FOR SECTION A-A TO E-E AND CURTAIN WALL =
 0.96 m³ (1.25 CU. YDS.) CLASS SI CONCRETE (OUTLET) FOR 225 (9) PAV'T.
 0.97 m³ (1.27 CU. YDS.) CLASS SI CONCRETE (OUTLET) FOR 250 (10) PAV'T.
 FOR SECTION F-F =
 0.03 m³ (0.045 CU. YDS.) CLASS SI CONCRETE PER m (FT.).

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

REVISIONS	
NAME	DATE
M. DE YONG	8/4/86
R. SHAH	09/09/94
R. SHAH	10/25/94
E. GOMEZ	12/21/00

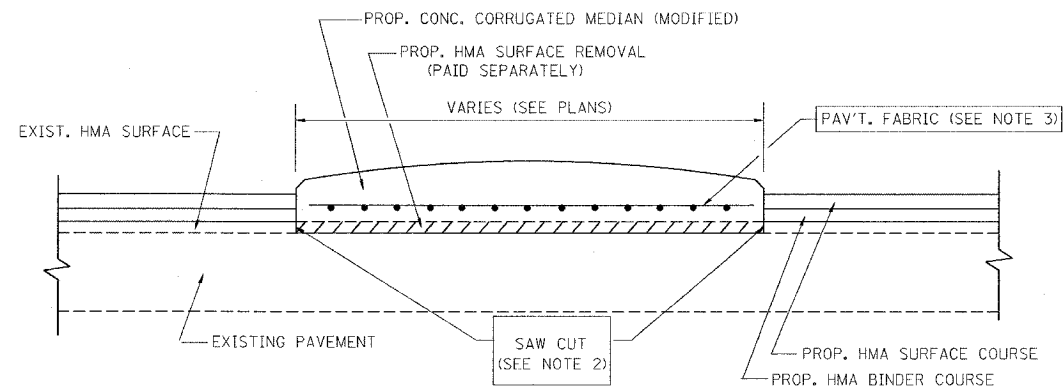
ILLINOIS DEPARTMENT OF TRANSPORTATION
OUTLET FOR CONCRETE CURB AND GUTTER

SCALE: VERT.
 HORIZ.
 DATE: 4/3/2006

DRAWN BY
 CHECKED BY
 BD600-01 (80-03)
 REVISION DATE: 12/21/00

PLOT DATE = 4/2/2006
 FILE NAME = W:\projects\11080.dgn
 PLOT SCALE = 49.9999 "/>

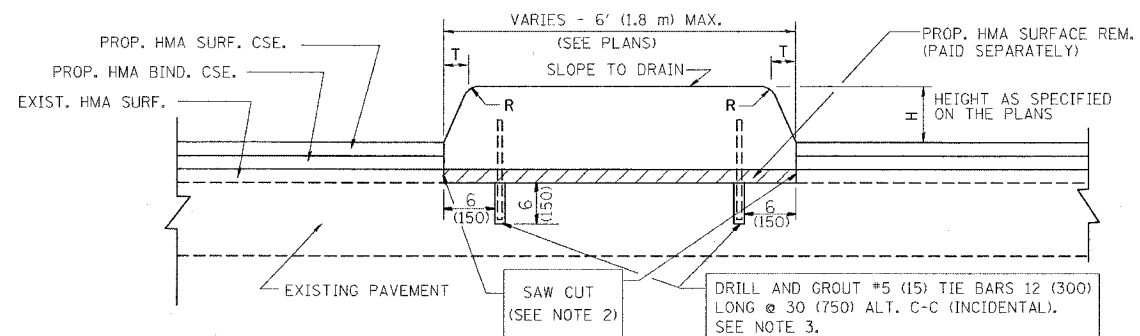
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G+12)1-N-1	LAKE	70	47
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



- NOTES:
1. CORRUGATED MEDIAN (MODIFIED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE PORTIONS OF STATE STANDARD 606306.
 2. WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY DELETE THE SAW CUT IF A NEAT JOINT CAN BE OBTAINED BY MILLING THE HMA SURFACE TO BE REMOVED. SAW CUT WILL BE INCLUDED IN THE COST OF CORRUGATED MEDIAN (MODIFIED)
 3. PAVEMENT FABRIC WILL BE INCLUDED IN THE COST OF CORRUGATED MEDIAN (MODIFIED)

DETAILS FOR CORRUGATED MEDIAN (MODIFIED)

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT (SQUARE METER) FOR "CORRUGATED MEDIAN (MODIFIED)"



- NOTES:
1. CONCRETE MEDIAN TYPE SB (DOWELLED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF STATE STANDARD 606301 AND SECTION 606 OF THE STANDARD SPECIFICATIONS.
 2. WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY DELETE THE SAW CUT IF A NEAT JOINT CAN BE OBTAINED BY MILLING THE HMA SURFACE TO BE REMOVED. SAW CUT WILL BE INCLUDED IN THE COST OF "CONCRETE MEDIAN TYPE SB (DOWELLED)"
 3. FOR MEDIAN WIDTH LESS THAN 4' (1.2 m) USE ONE ROW OF #5 (15) BARS @ 30 (750) C-C ALONG THE MEDIAN CENTERLINE. TIE BARS WILL BE INCLUDED IN THE COST OF "CONCRETE MEDIAN TYPE SB (DOWELLED)"

H	R	T
6(150)	1(25)	1(25)
9(225)	1(25)	2(150)

**DETAILS FOR CONCRETE MEDIAN
TYPE SB (DOWELLED)**

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT (SQUARE METER) FOR "CONCRETE MEDIAN TYPE SB (DOWELLED)"

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

REVISIONS	
NAME	DATE
M. DE YONG	05/14/90
M. DE YONG	06/13/90
M. DE YONG	06/14/90
M. DE YONG	06/20/90
M. DE YONG	09/21/90
M. DE YONG	10/12/90
R. SHAH	09/09/94
R. SHAH	10/25/94
E. GOMEZ	08/28/00
R. BORO	10/11/06

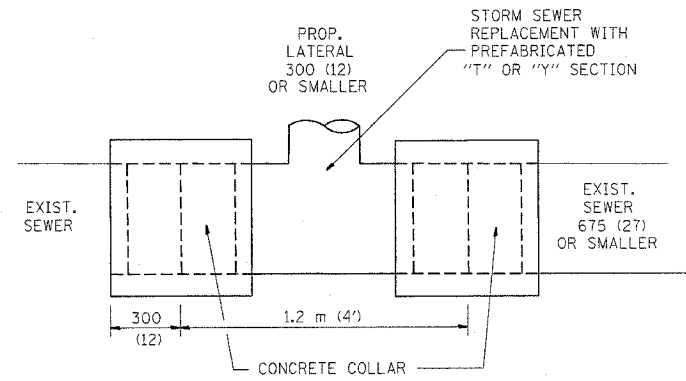
ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAILS FOR
CONCRETE MEDIAN TYPE SB (DOWELLED)
CORRUGATED MEDIAN (MODIFIED)

SCALE: VERT.
HORIZ.
DATE: 10/30/2006

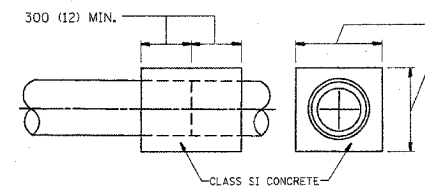
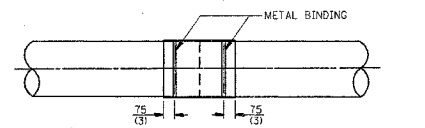
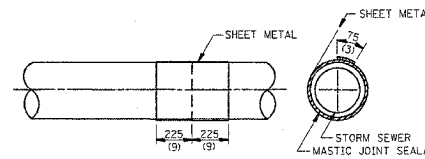
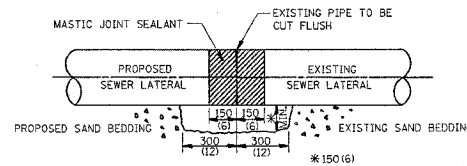
DRAWN BY
CHECKED BY

BD600-02 (BD-5)
REVISION DATE: 10/11/06

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(S-12)1-N-1	Lake	70	48
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



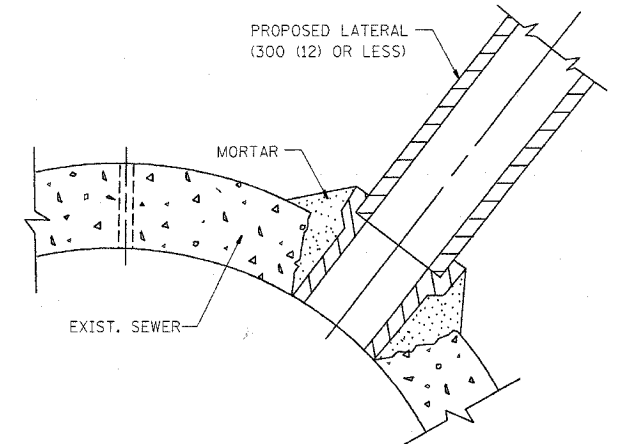
DETAIL "A"
LATERAL CONNECTION TO EXISTING SEWER
OF 675 (27) OR SMALLER



DETAIL "B"
CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

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



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

NOTES

MATERIAL

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

CONSTRUCTION METHODS

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

REVISIONS	
NAME	DATE
M. DE YONG	07/25/90
M. DE YONG	02/05/92
M. DE YONG	05/08/92
R. SHAH	09/09/94
R. SHAH	10/25/94
R. SHAH	06/12/96

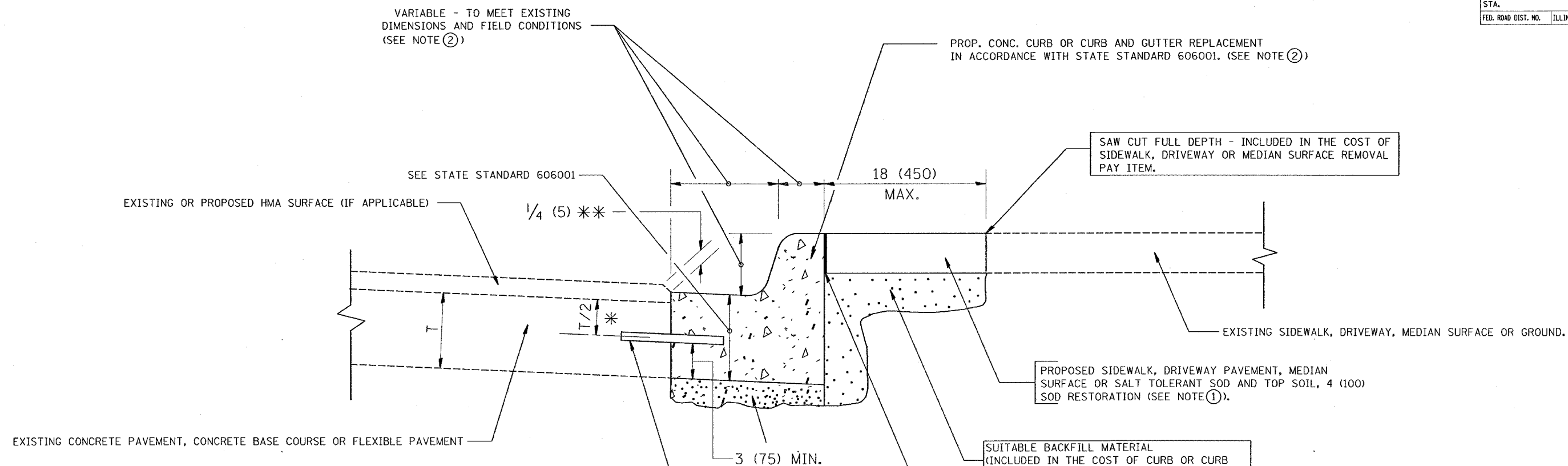
ILLINOIS DEPARTMENT OF TRANSPORTATION
**DETAIL OF STORM SEWER
CONNECTION TO EXISTING SEWER**

SCALE: VERT.
HORIZ.
DATE: 4/3/2006

DRAWN BY
CHECKED BY

B0500-01 (BD-7)
REVISION DATE: 06/12/96

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(5+12)-N-1	LAKE	70	49
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



- * 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.
- SALT TOLERANT SOD AND TOP SOIL, 4 (100) RESTORATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ② CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- ③ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
- ④ 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.
- ⑤ 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.
- ⑥ 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.
- ⑦ 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.

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4 (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4 (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24 (600) LONG AT 24 (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

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".

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

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

REVISIONS	
NAME	DATE
A. HOUSEH	03/11/94
R. SHAH	02/24/95
R. SHAH	03/02/95
R. SHAH	08/19/96
R. SHAH	09/12/96
R. SHAH	09/19/96
R. SHAH	10/03/96
A. ABBAS	03/21/97
M. GOMEZ	01/22/01
R. BORO	10/11/06

ILLINOIS DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

SCALE: VERT. HORIZ. DATE: 10/30/2006

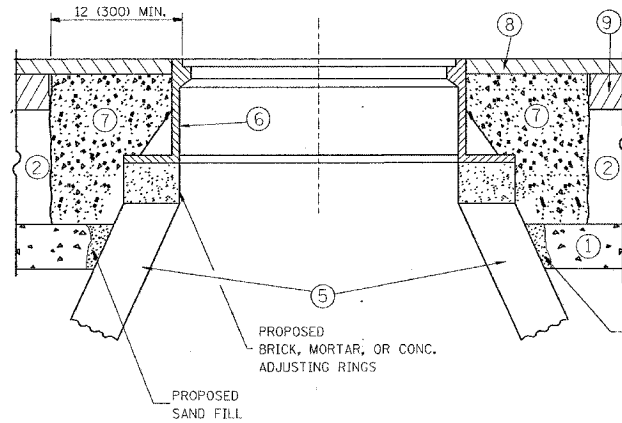
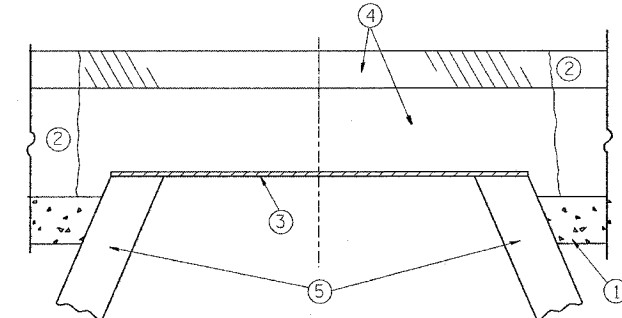
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BD600-06 (BD-24)

REVISION DATE: 10/11/06

PLOT DATE = 10/30/2006
PLOT SCALE = 1/8"=1'-0"
USER NAME = emorara

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(6+12)1-N-1	LAKE	70	50
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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 SI CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

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
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS SI CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

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.

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.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/30/95
R. SHAH	03/10/95
A. ABBAS	03/21/97
R. WIEDEMAN	05/14/04
R. BORO	10/11/06

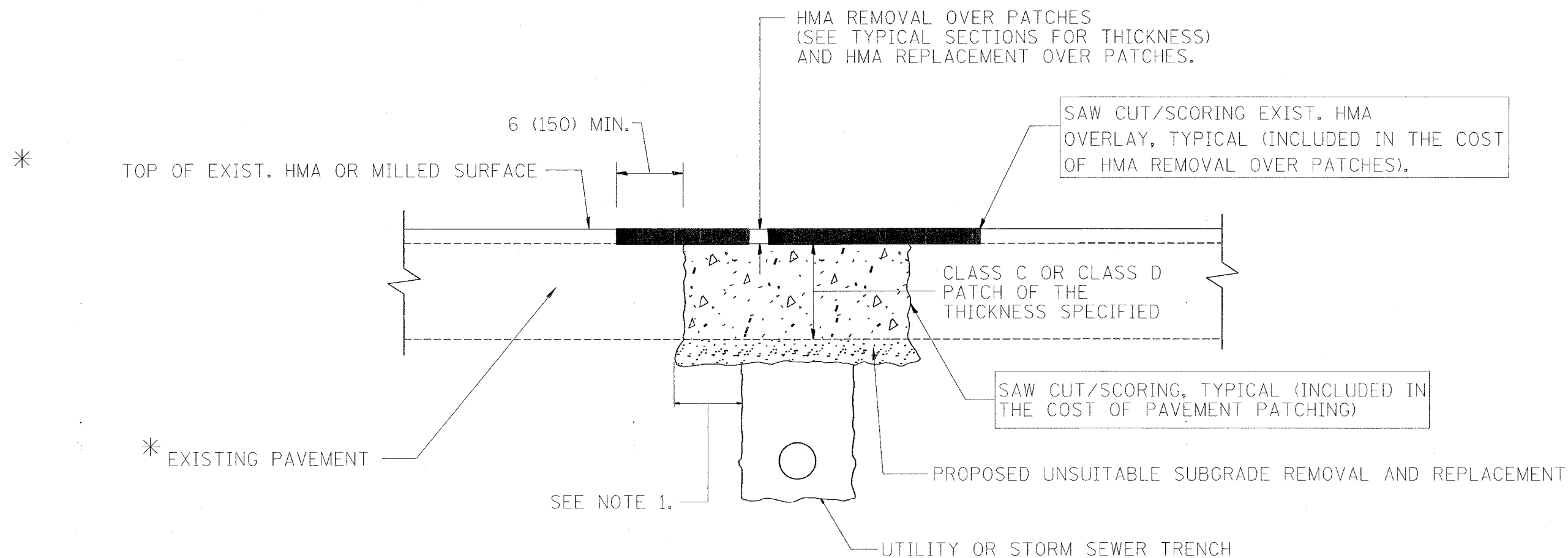
ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAILS FOR
FRAMES AND LIDS ADJUSTMENT
WITH MILLING

SCALE: VERT. HORIZ.
DATE: 10/30/2006

DRAWN BY
CHECKED BY

BD600-03 (BD-8)
REVISION DATE: 10/11/06

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(S+12)1-N-1	LAKE	70	51
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



* 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

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE FULL DEPTH PATCHES
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

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

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/14/95
R. SHAH	03/23/95
R. SHAH	04/24/95
A. HOUSEH	03/15/96
A. ABBAS	03/21/97
A. ABBAS	01/20/98
ART ABBAS	04/27/98
R. BORO	10/11/06

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

SCALE: VERT. HORIZ. DATE: 10/30/2006

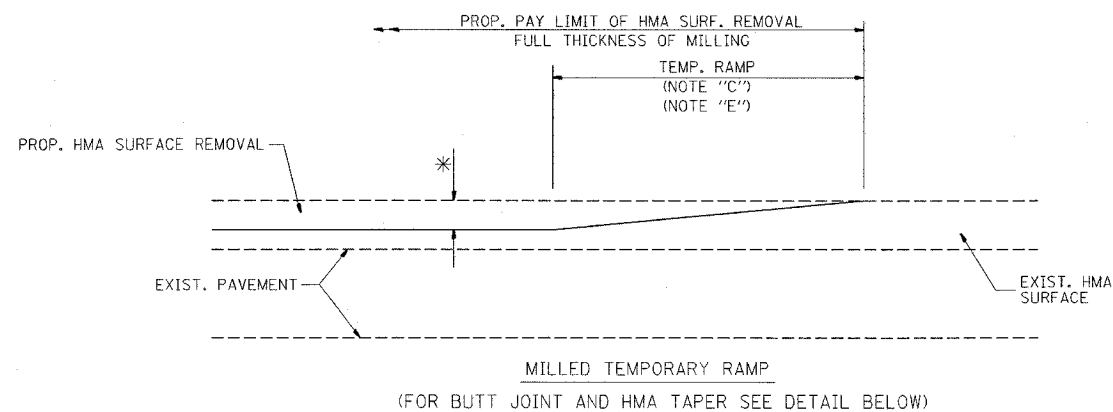
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BD400-04 (BD-22)

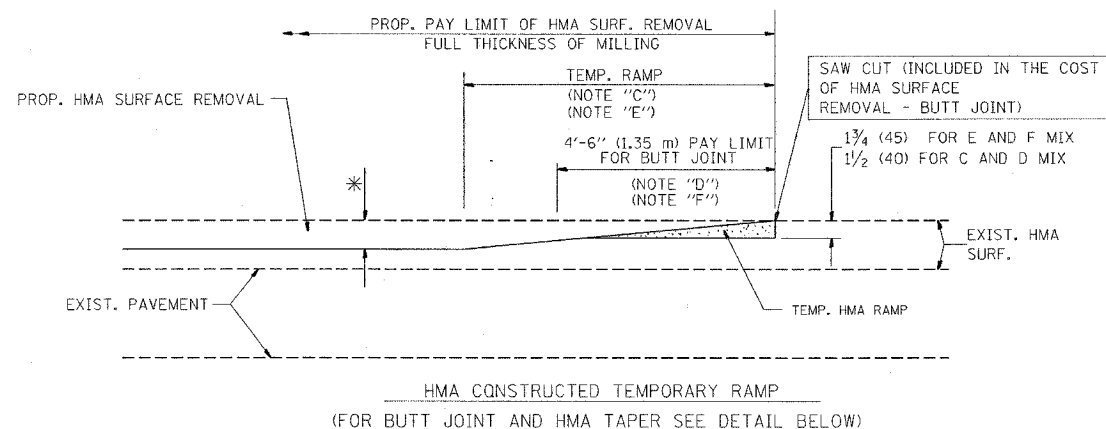
REVISION DATE: 10/11/06

PLOT DATE = 10/30/2006
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PLOT SCALE = 50,000 / IN.
USER NAME = omar

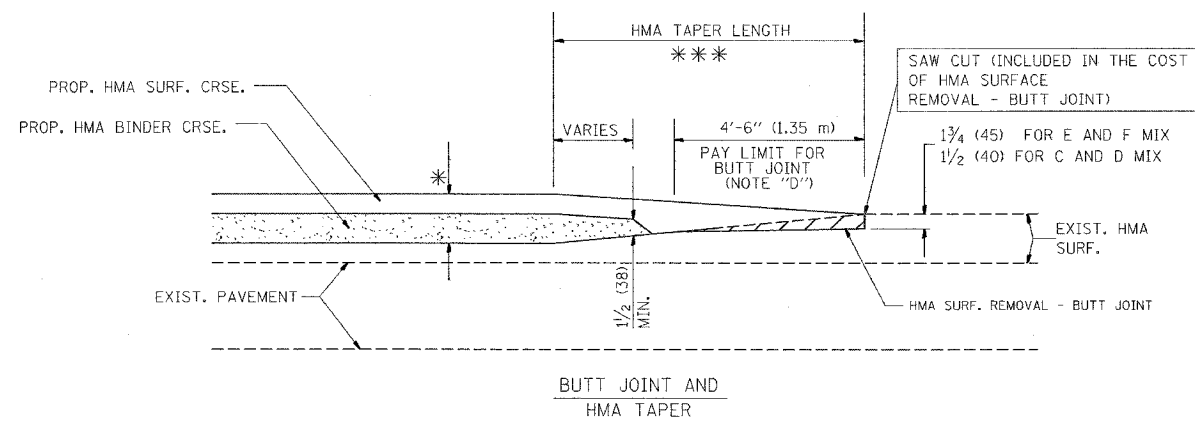
CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G-12)1-N-1	LAKE	70	52
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



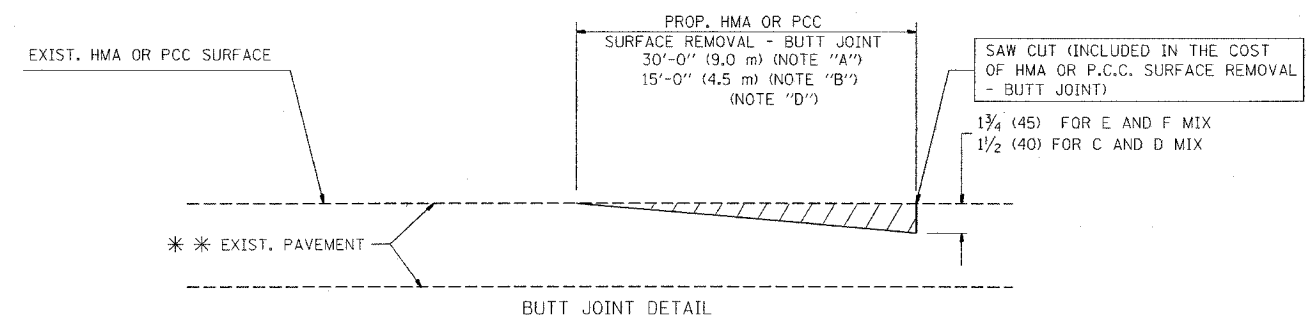
OPTION 1



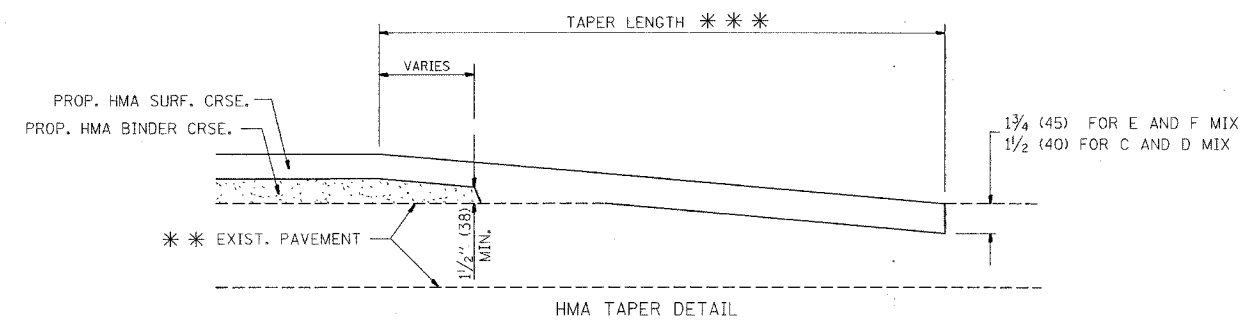
OPTION 2
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING



BUTT JOINT 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")

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

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".

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/01
R. BORO	10/11/06

ILLINOIS DEPARTMENT OF TRANSPORTATION

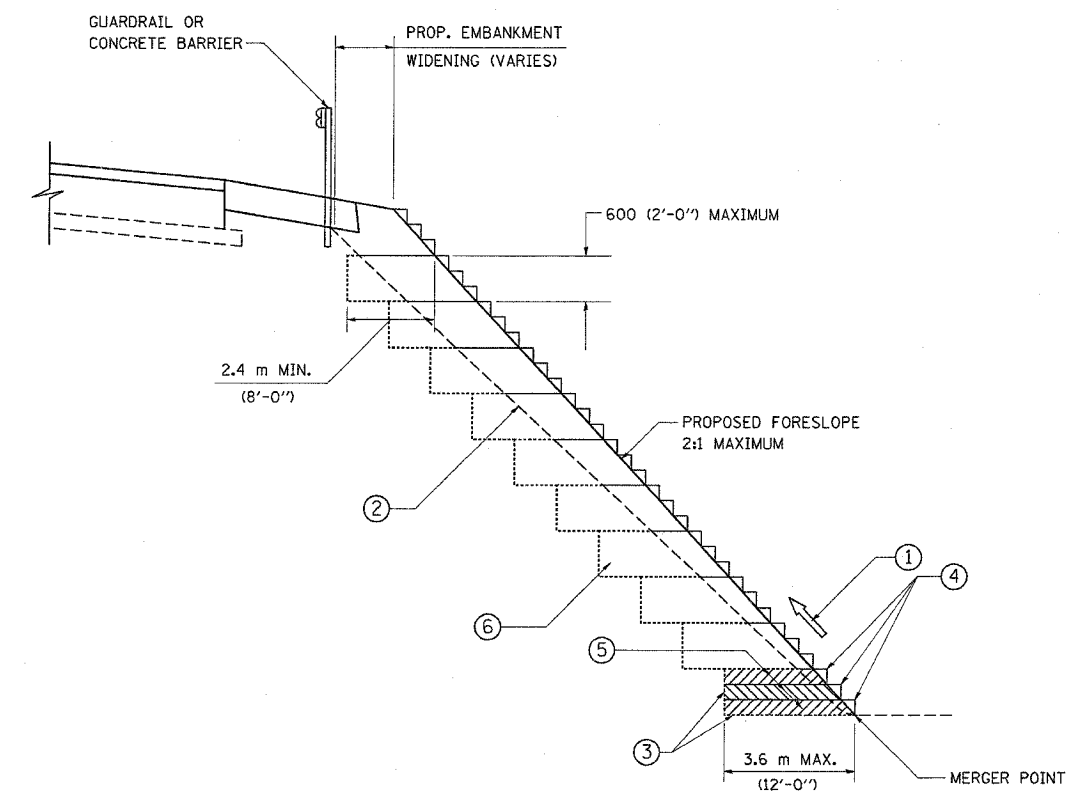
BUTT JOINT AND
HMA TAPER
DETAILS

SCALE: VERT.
HORIZ.
DATE: 10/30/2006

DRAWN BY
CHECKED BY

BD400-05 (VI-BD32)
REVISION DATE: 10/11/06

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G+12)-N-1	Lake	70	53
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL BENCHING DETAIL
FOR EMBANKMENT

NOTES:

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 200 (8-INCH) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5)

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

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

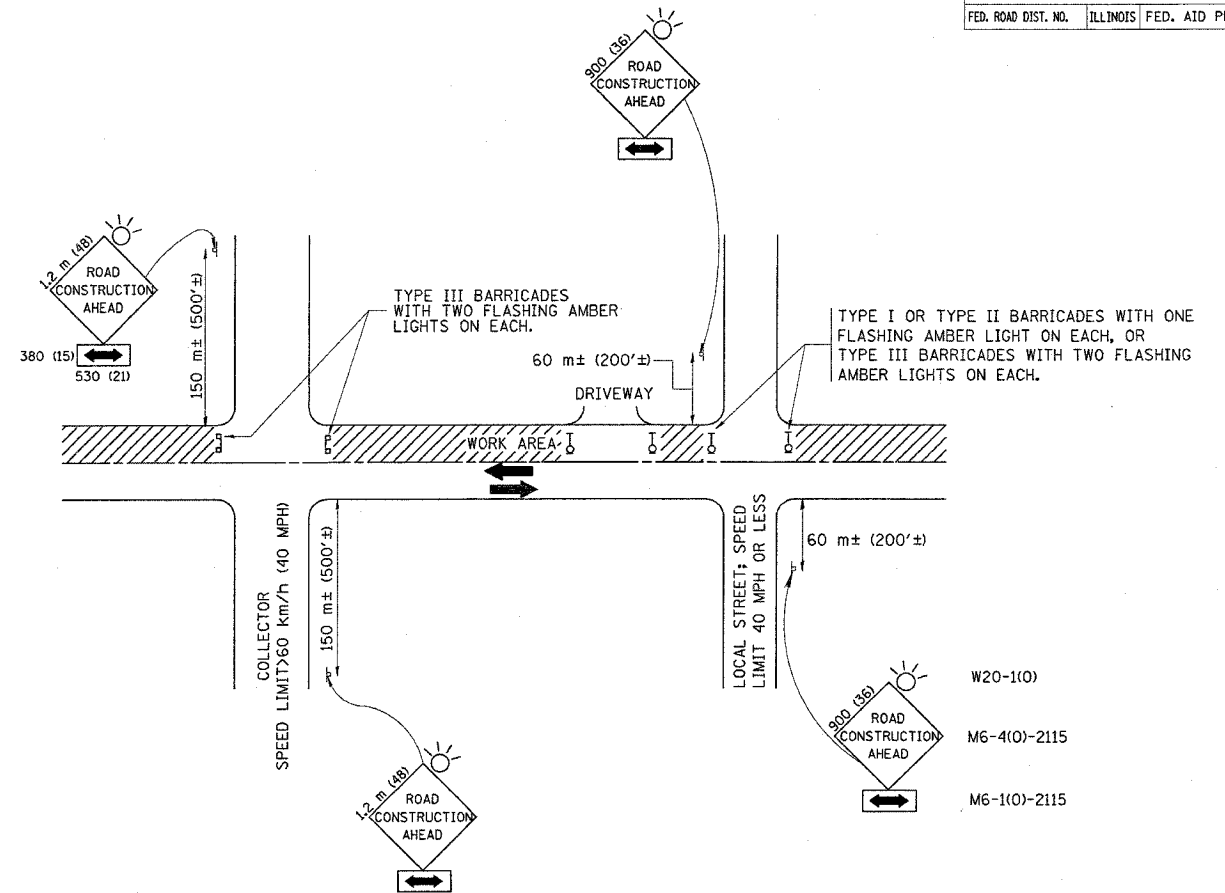
BENCHING DETAIL
FOR EMBANKMENT
WIDENING

SCALE: VERT.
HORIZ.
DATE: 4/3/2006

DRAWN BY: CADD
CHECKED BY: S.E.B.
BD-51
REVISION DATE: 6-16-2004

PLOT DATE = 4/3/2006
FILE NAME = M:\projects\342\342051.dgn
USER NAME = ebbbara

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(5+12)-N-1	Lake	70	54
STA.		TO STA.		
FED. ROAD DIST. NO.		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

- SIDE ROAD WITH A SPEED LIMIT OF 60 km/h (40 MPH) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE ROAD CONSTRUCTION AHEAD SIGN 900x900 (36x36) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 60 m (200') IN ADVANCE OF THE MAIN ROUTE.
 - 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.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 60 km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE ROAD CONSTRUCTION AHEAD SIGN 1.2 m x 1.2 m (48x48) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 150 m (500') IN ADVANCE OF THE MAIN ROUTE.
 - 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.
- 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.

REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC CONTROL AND PROTECTION
 FOR
 SIDE ROADS, INTERSECTIONS, AND
 DRIVEWAYS

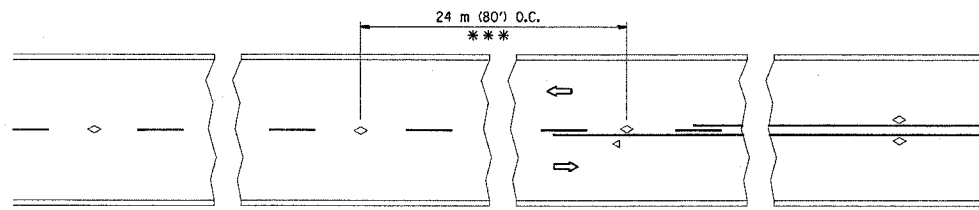
SCALE:
 DATE: 4/3/2006

DRAWN BY
 CHECKED BY

TC-10
 REVISION DATE: 01/06/00

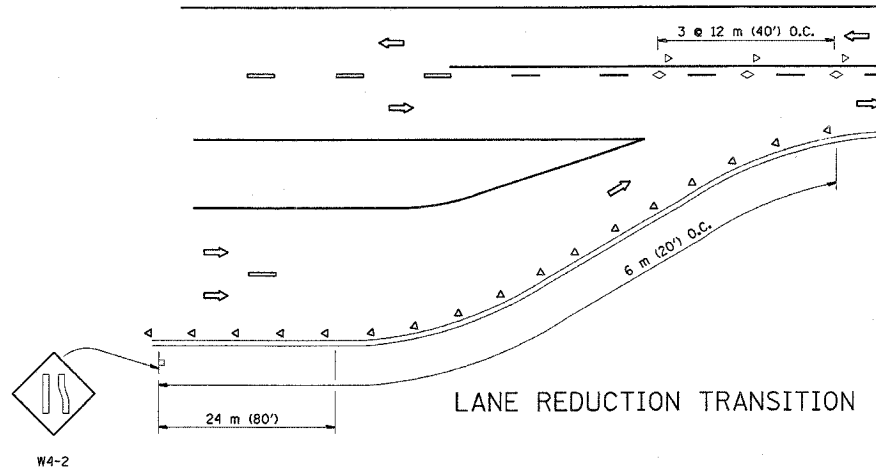
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 USER NAME = ebabawa

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(5-12) I-N-1	Lake	70	55
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

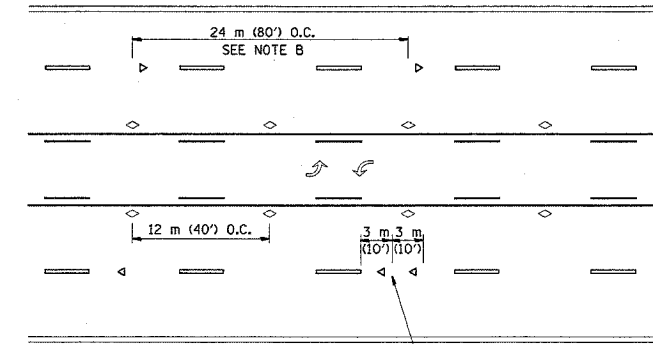


*** REDUCE TO 12 m (40') O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 70 km/h (45 M.P.H.) OR LESS.

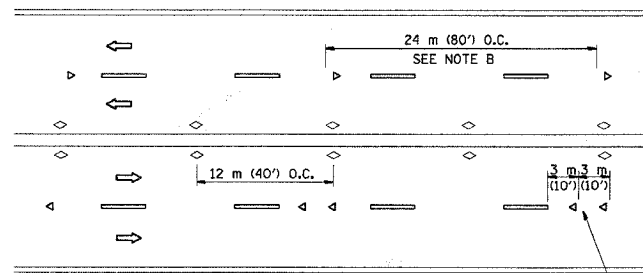
TWO-LANE/TWO-WAY



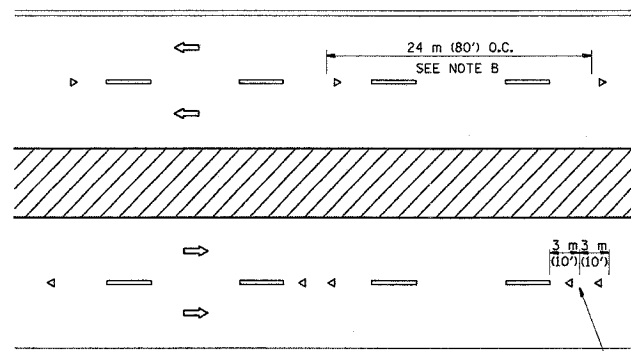
LANE REDUCTION TRANSITION



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 50 TO 75 (2 TO 3) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 150 m (500') IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

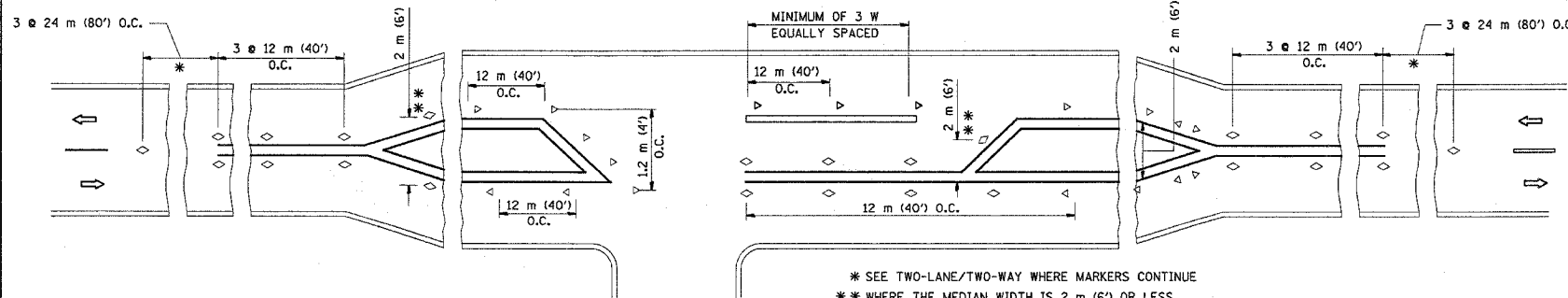
- YELLOW STRIPE
- WHITE STRIPE
- ◁ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◊ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

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 2 m (6') OR LESS USE TWO-WAY MARKERS.

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

REVISIONS	
NAME	DATE
T. RAMMACHER	09-19-94
T. RAMMACHER	03-12-99
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT
 MARKERS (SNOW-PLOW RESISTANT)

SCALE: NONE
 DATE: 4/3/2006

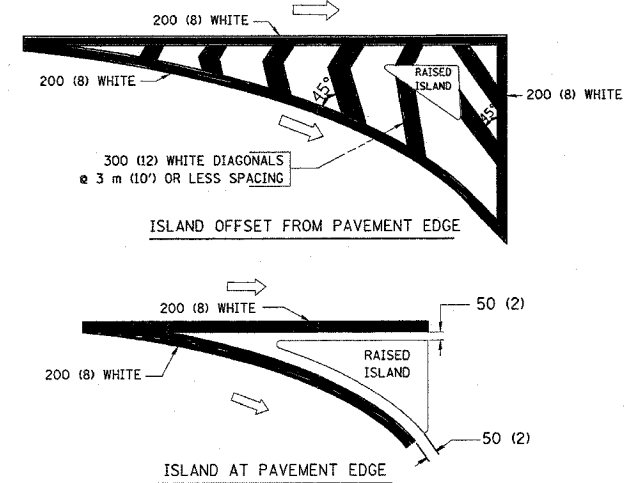
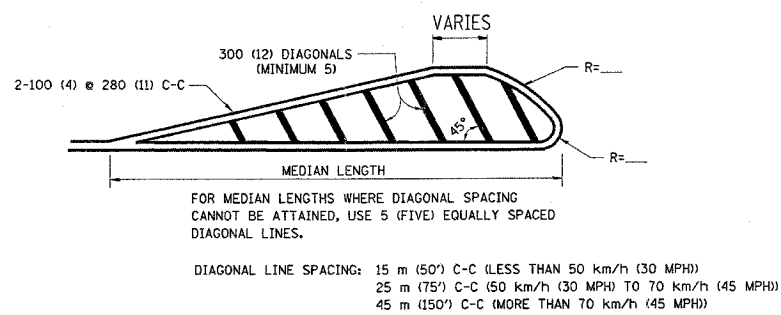
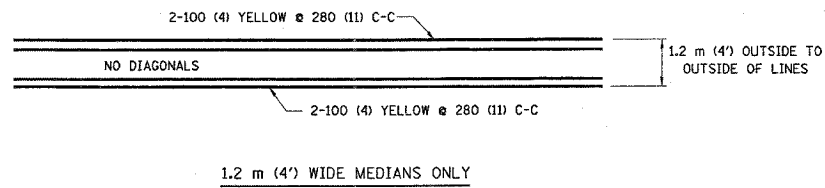
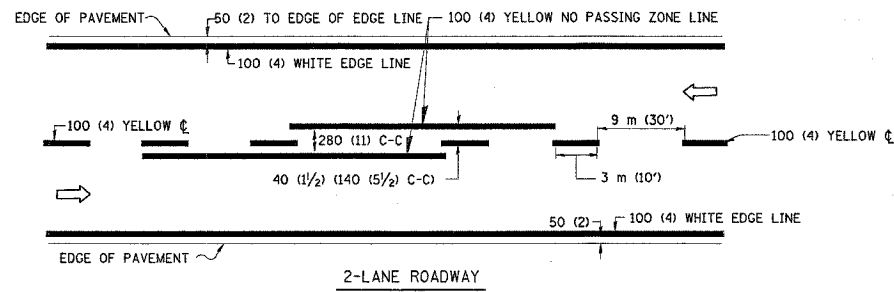
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 CHECKED BY

TC-11

REVISION DATE: 01/06/00

PLOT DATE = 4/3/2006
 FILE NAME = n:\data\st\wall.dgn
 PLOT SCALE = 50.0000 / IN.
 USER NAME = abbawa

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(E+12)-N-1	Lake	70	56
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	100 (4)	SKIP-DASH	YELLOW	3 m (10') LINE WITH 9 m (30') SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 100 (4)	SOLID	YELLOW	280 (11) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION	100 (4)	SOLID	YELLOW	140 (5 1/2) C-C FROM SKIP-DASH CENTERLINE
NO PASSING ZONE LINES: FOR BOTH DIRECTIONS	2 @ 100 (4)	SOLID	YELLOW	280 (11) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	100 (4)	SKIP-DASH	WHITE	3 m (10') LINE WITH 9 m (30') SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	600 (2') LINE WITH 1.8 m (6') SPACE
EDGE LINES	100 (4)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	150 (6) LINE; FULL SIZE LETTERS & SYMBOLS (2.4 m (8'))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 100 (4) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	3 m (10') LINE WITH 9 m (30') SPACE FOR SKIP-DASH; 140 (5 1/2) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	2.4 m (8') LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 150 (6) 300 (12) @ 45° 300 (12) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 1.8 m (6') APART 600 (2') APART 600 (2') APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	600 (24)	SOLID	WHITE	PLACE 1.2 m (4') IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 100 (4) WITH 300 (12) DIAGONALS @ 45°	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	280 (11) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	200 (8) WITH 300 (12) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 4.5 m (15') C-C (LESS THAN 50 km/h (30 MPH)) 6 m (20') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 9 m (30') C-C (OVER 70 km/h (45 MPH))
RAILROAD CROSSING	600 (24) TRANSVERSE LINES; "RR" IS 1.8 m (6') LETTERS; 400 (16) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=0.33m ² (3.6 SQ. FT.) EACH "X"=5.0 m ² (54.0 SQ. FT.)
SHOULDER DIAGONALS	300 (12) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	15 m (50') C-C (LESS THAN 50 km/h (30 MPH)) 25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 45 m (150') C-C (OVER 70 km/h (45 MPH))

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

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

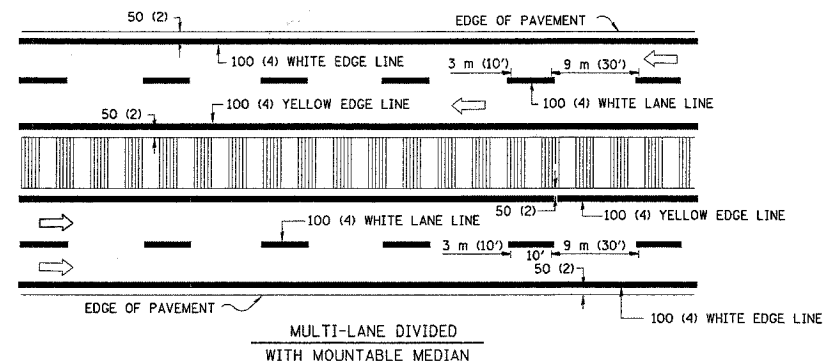
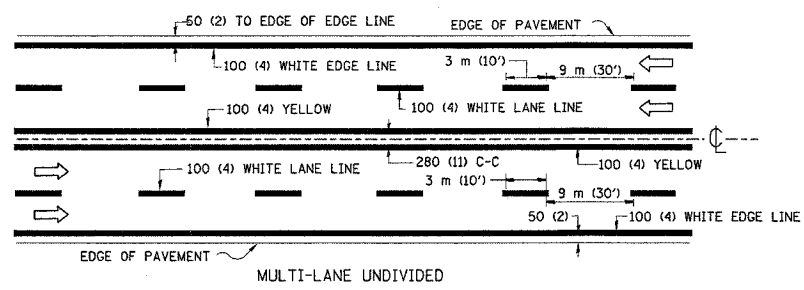
REVISIONS	NAME	DATE
1	EVERS	03-19-90
2	T. RAMMACHER	10-27-94
3	ALEX HOUSEH	10-09-96
4	ALEX HOUSEH	10-17-96
5	T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE
DATE: 4/3/2006

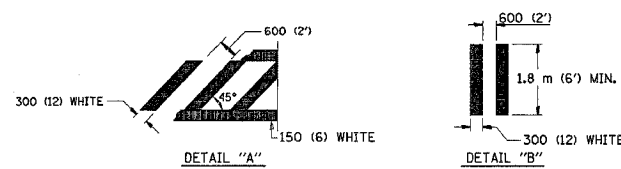
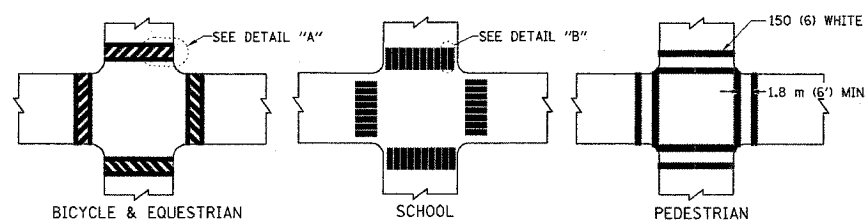
DRAWN BY CADD
CHECKED BY

TC-13
REVISION DATE: 01/06/00

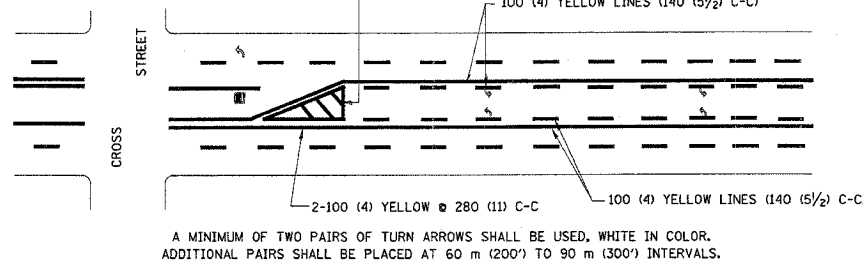


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

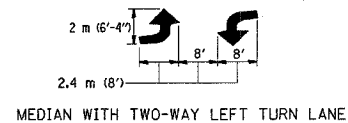
TYPICAL LANE AND EDGE LINE MARKING



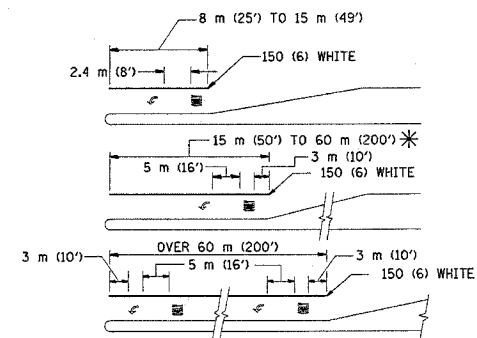
TYPICAL CROSSWALK MARKING



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



TYPICAL PAINTED MEDIAN MARKING



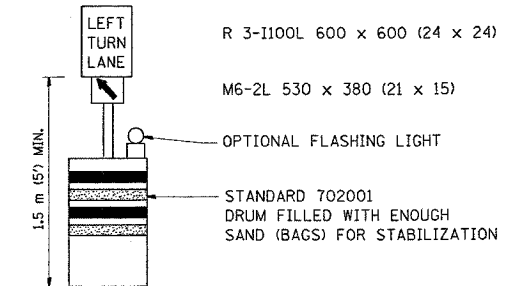
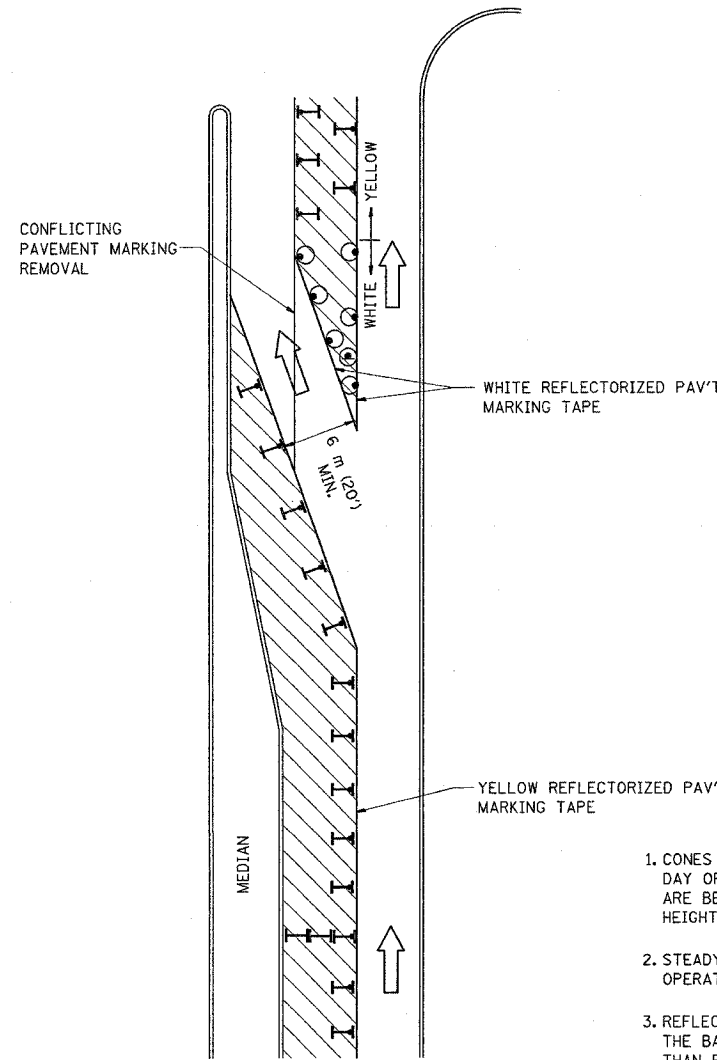
FULL SIZE LETTERS 2.4 m (8') AND ARROWS SHALL BE USED.
AREA = 1.5 m² (15.6 SQ. FT.) AREA = 1.9 m² (20.8 SQ. FT.)

* TURN LANES IN EXCESS OF 120 m (400') 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


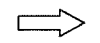




F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(6+12)1-N-1	Lake	70	57
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		



GENERAL NOTES

- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 710 (28) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 1.5 m (5').
- STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
- REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
- THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 600 x 600 (24 x 24) AND M6-2R 530 x 380 (21 x 15) SHALL BE USED.
- THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
- FORM BT 725 IS REQUIRED.
- TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

LEGEND

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

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

REVISIONS	
NAME	DATE
T. RAMMACHER	09/08/94
A. HOUSEH	11/07/95
A. HOUSEH	10/12/96
T. RAMMACHER	01/06/00

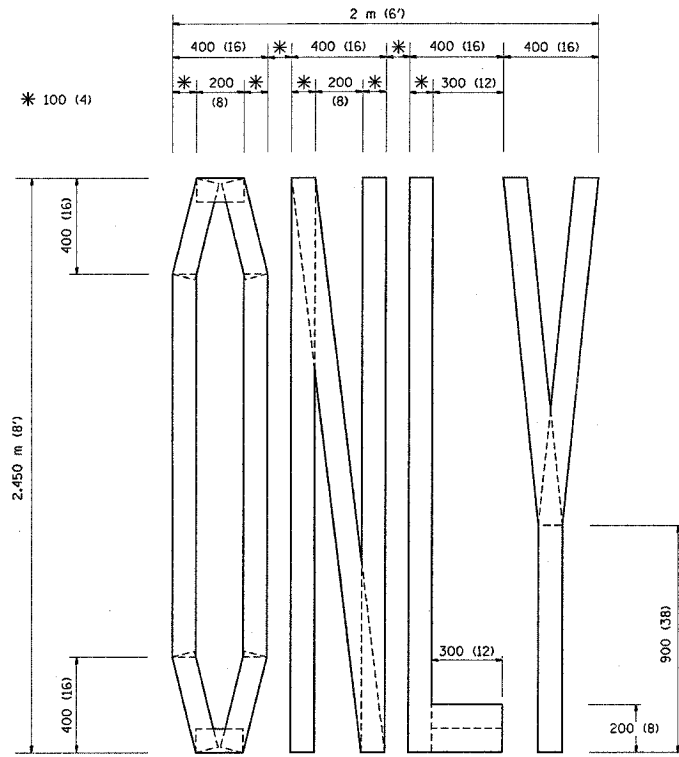
ILLINOIS DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL AND PROTECTION
 AT TURN BAYS
 (TO REMAIN OPEN TO TRAFFIC)**

SCALE: NONE
 DATE: 4/3/2006
 DRAWN BY
 CHECKED BY: LHA

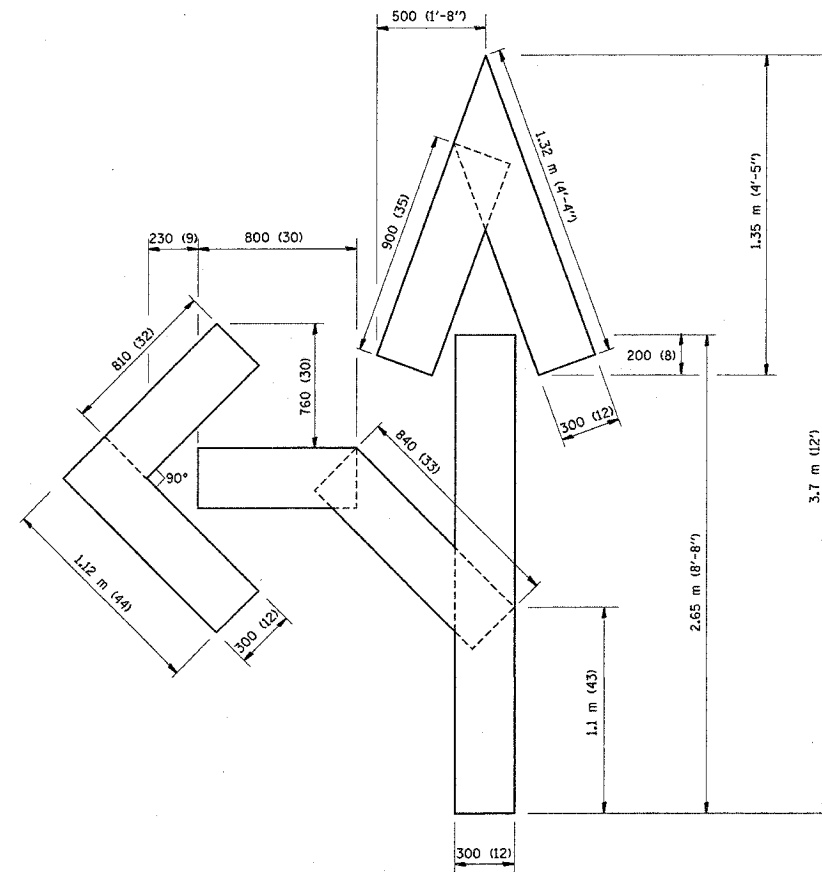
TC-14
 REVISION DATE: 01/06/00

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 USER NAME = abbeba

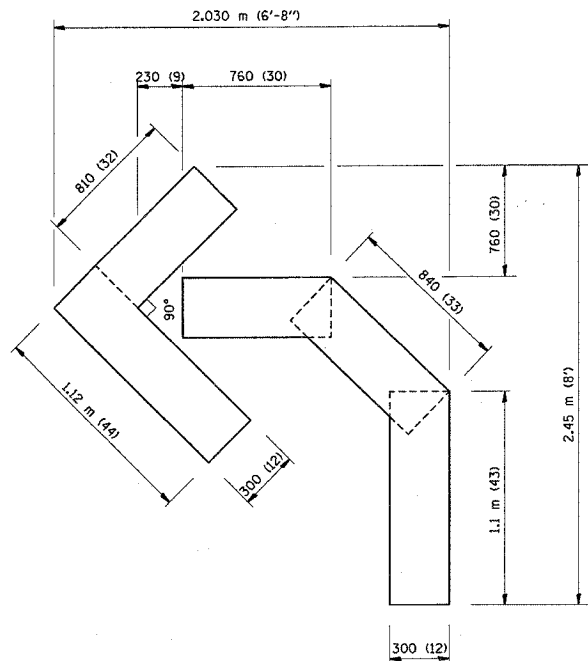
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(5+12)1-N-1	Lake	70	58
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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



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



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

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

REVISIONS	
NAME	DATE
T. RAMMACHER	09/18/94
J. OBERLE	06/01/96
T. RAMMACHER	06/05/96
T. RAMMACHER	11/04/97
T. RAMMACHER	03/02/98
E. GOMEZ	08/28/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING
 LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING

SCALE: NONE
 DATE: 4/19/2006

DRAWN BY CADD
 CHECKED BY

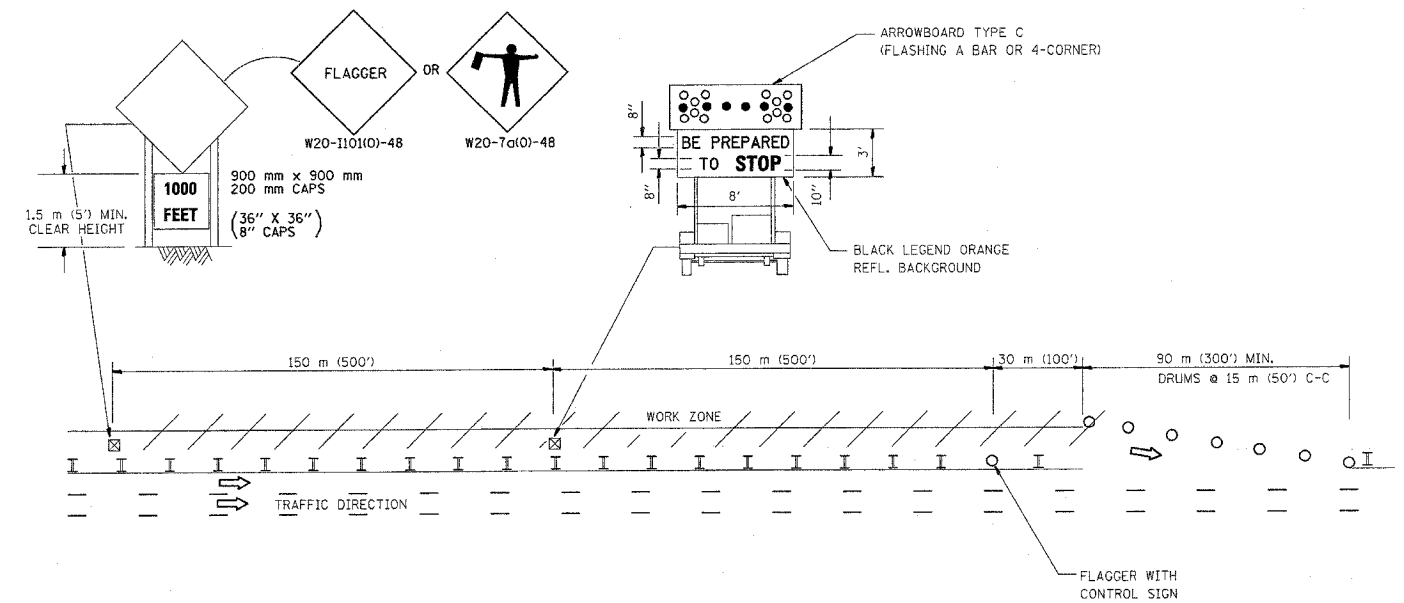
TC-16

REVISION DATE: 08/28/00

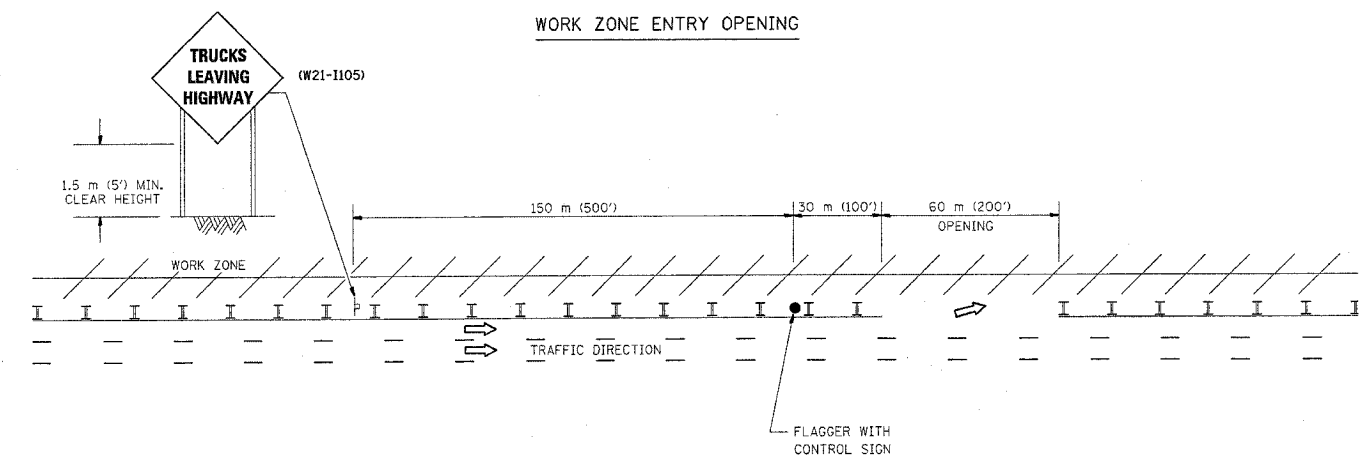
F.A. RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(C+12) 1-N-1	Lake	70	59
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. The Arrowboard, the Flagger Ahead trailer mounted sign, and the Trucks Leaving Highway sign shall be removed or turned away from traffic and the exit and entry openings shall be closed when the flagging operation ceases.
2. Work Zone Exit Openings should be a minimum of one half mile apart.
3. Exiting the work zone at any place other than at a Work Zone Exit Opening will be prohibited.
4. All vehicles shall enter the work zone at entry openings, using their turn signals to warn motorists

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN

REVISIONS	
NAME	DATE
DWS	8/98
JAF	4/03
JAF	2/06

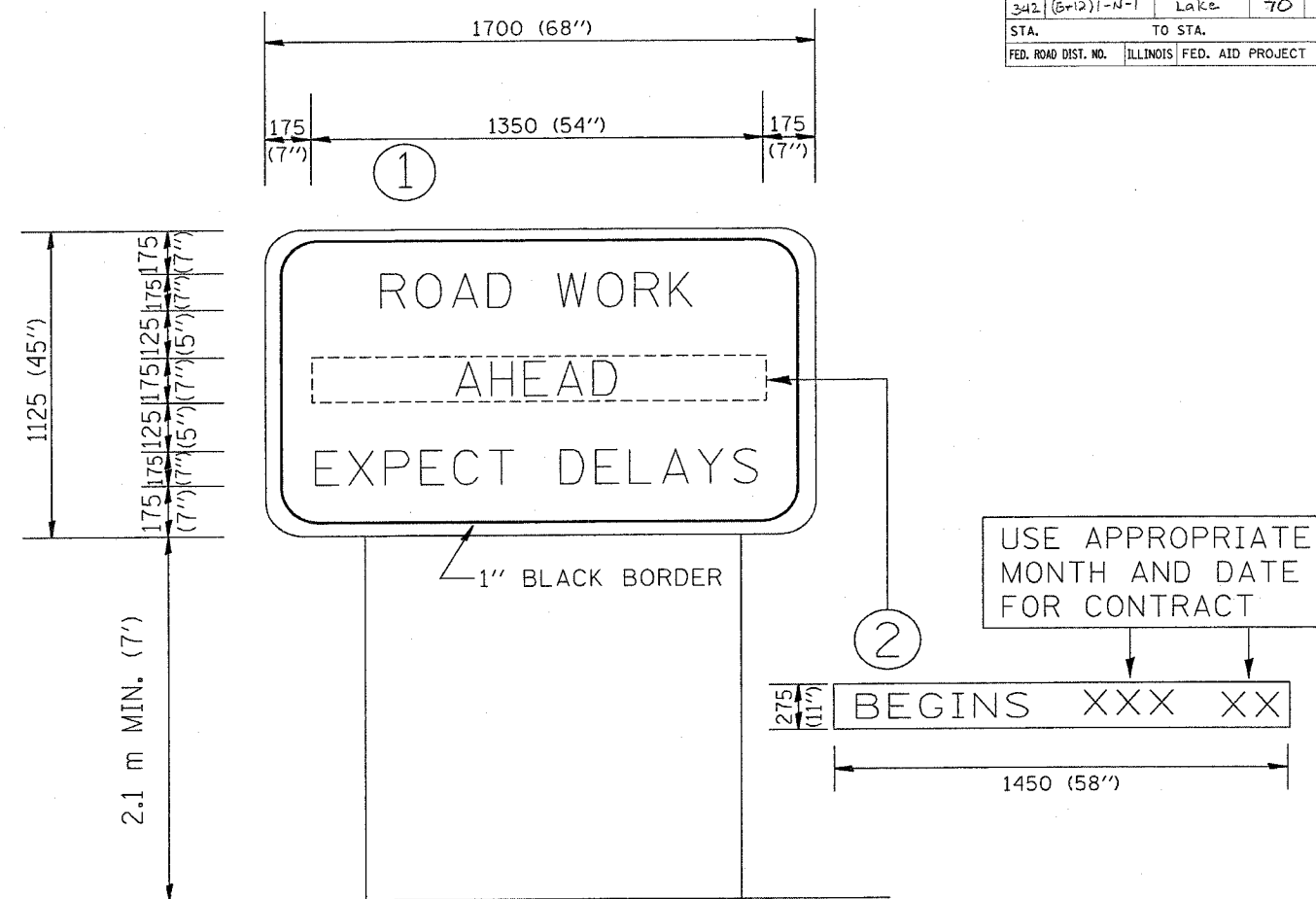
ILLINOIS DEPARTMENT OF TRANSPORTATION
SIGNING FOR FLAGGING OPERATIONS
AT WORK ZONE OPENINGS

SCALE: NONE
DATE: 4/3/2006

DRAWN BY CADD
CHECKED BY TC-18

REVISION DATE: 02/28/06

CONTRACT NO.				
F.A. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(6+12)-N-1	Lake	70	60
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



NOTES:

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

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

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
R. MIRS	9-15-97	TEMPORARY INFORMATION SIGNING
R. MIRS	12-11-97	
T. RAMMACHER	2-2-99	

SCALE:
DATE: 4/3/2006

DRAWN BY DESIGN
CHECKED BY

TC22
REVISION DATE: 02/02/99

PLOT DATE = 4/3/2006
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PLOT SCALE = 50.000 / 1 IN.
USER NAME = ababona

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	G & 1211-N-1	LAKE	70	61
STA. 88+00.00		TO STA. 91+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

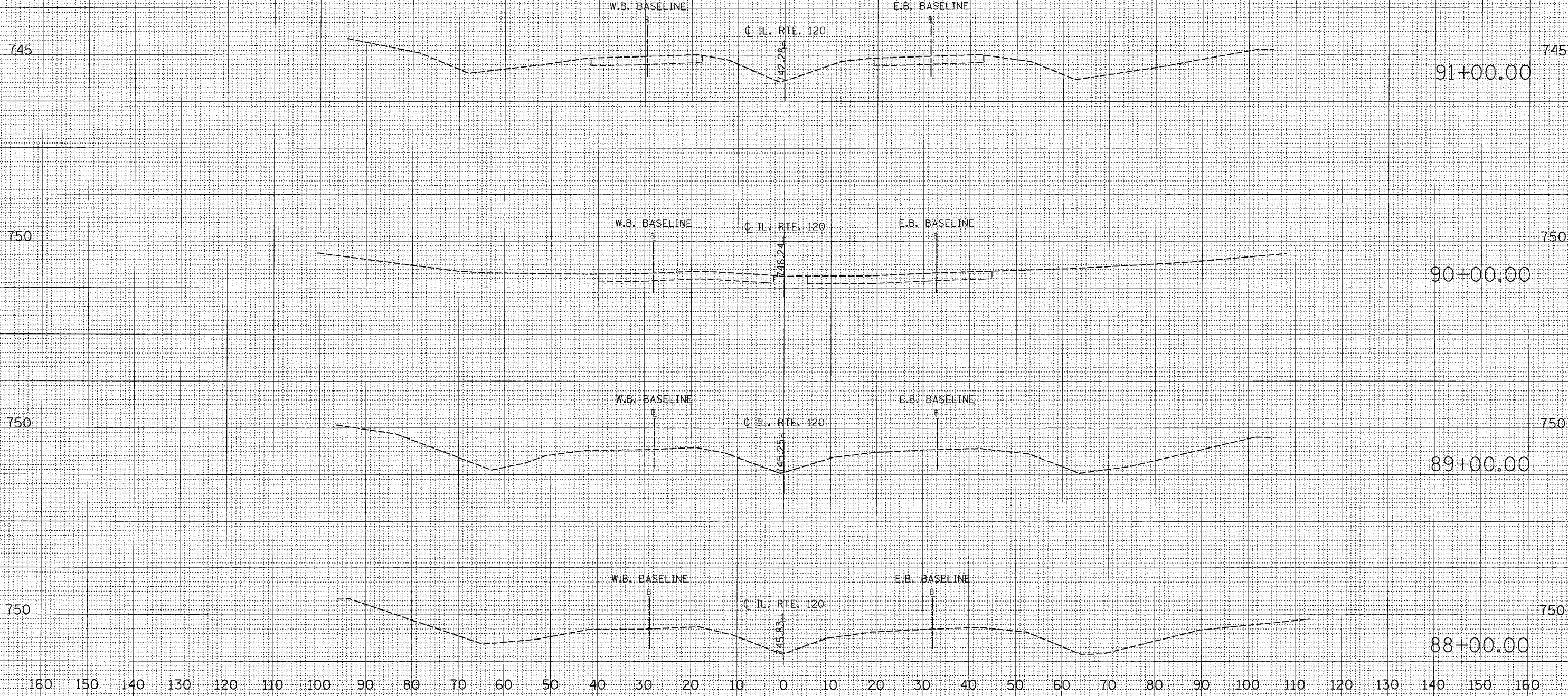
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130 140 150 160

DATE	BY

DATE	BY

ORIGINAL SURVEY
 SURVEYED
 PLOTTED
 TEMPLATE
 NO. 12345678
 USER NAME: abcd
 DATE: 9/26/2006
 FILE NAME: 12345678.dwg
 PLOT SCALE: 1/8" = 1'



160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	IG & 121-N-1	LAKE	70	62
STA. 92+00.00		TO STA. 94+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

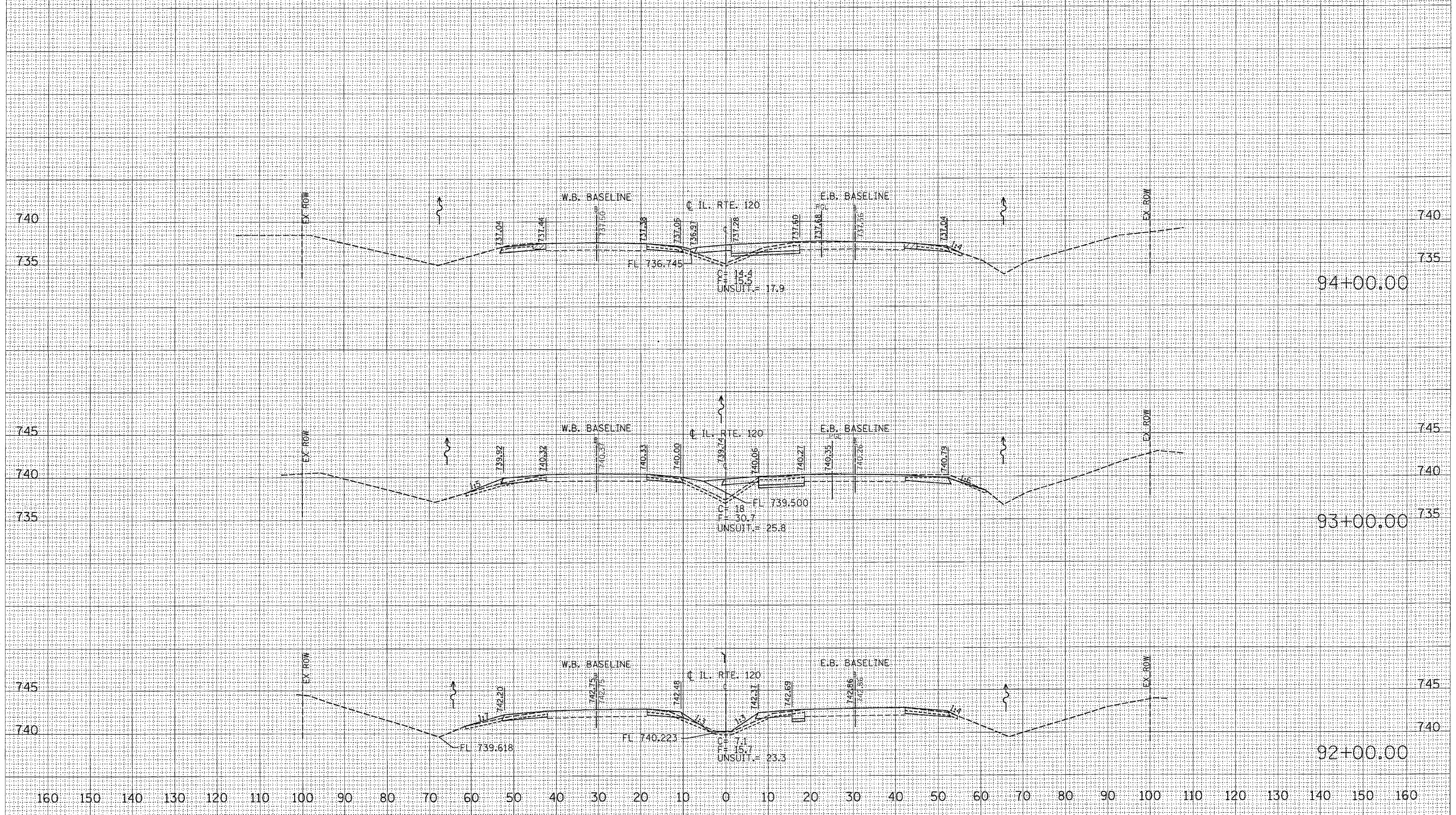
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130 140 150 160

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

DATE	
BY	
NO.	
ORIGINAL SURVEY	
SURVEYED	
PI YTD	
PL. DATE	
NOTE BOOK	
AREAS CHECKED	

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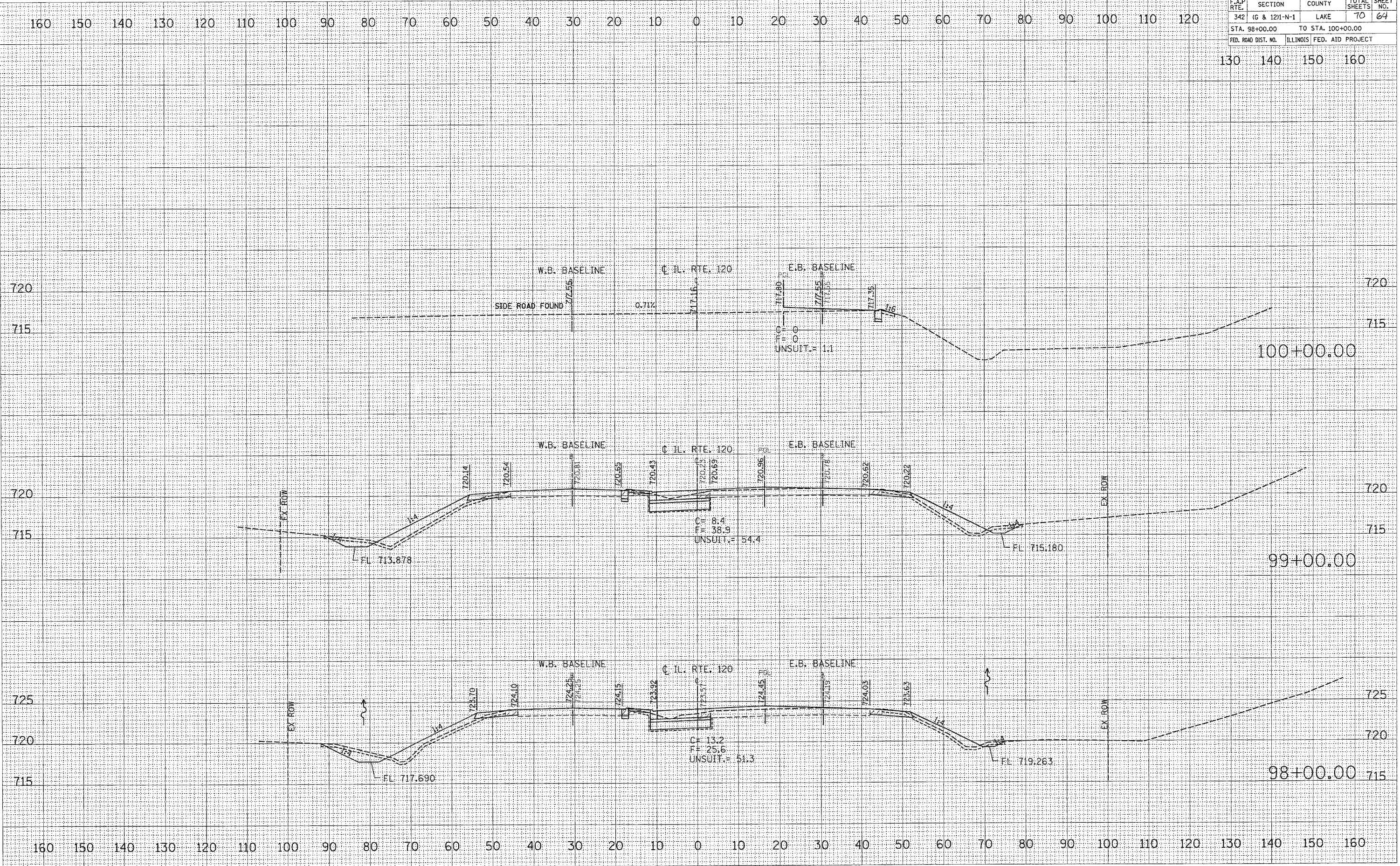


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	IG & 121-N-1	LAKE	70	64
STA. 98+00.00		TO STA. 100+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

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

DATE = 10/1/2008
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 USER NAME = ababene



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130 140 150 160

720 720

715 715

720 720

715 715

725 725

720 720

715 715

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G & 12)I-N-1	LAKE	70	65

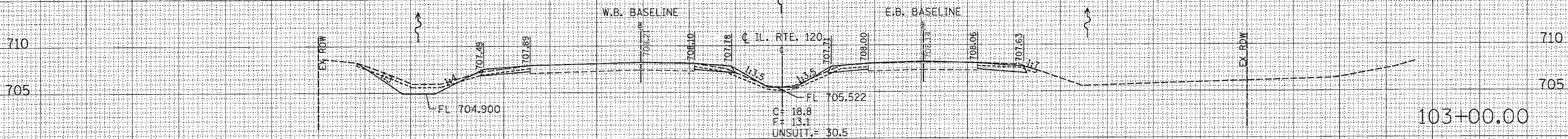
STA. 101+00.00 TO STA. 103+00.00

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

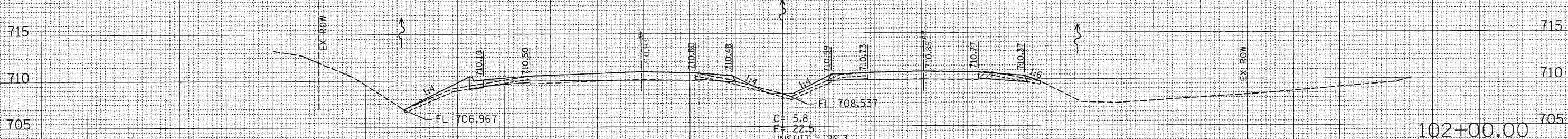
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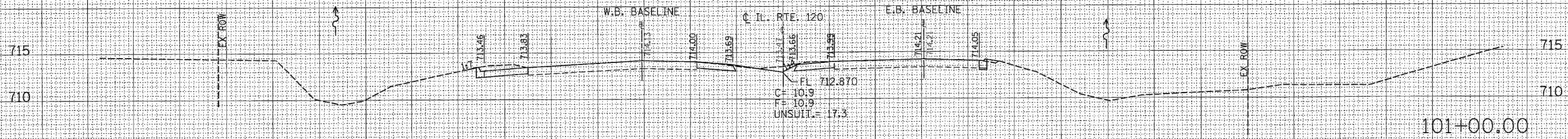
DATE		
BY		
REVISIONS		
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1	DATE	
2	BY	
3	REVISION	
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DATE		
BY		
REVISIONS		
NO.		
1	DATE	
2	BY	
3	REVISION	
4	NO.	

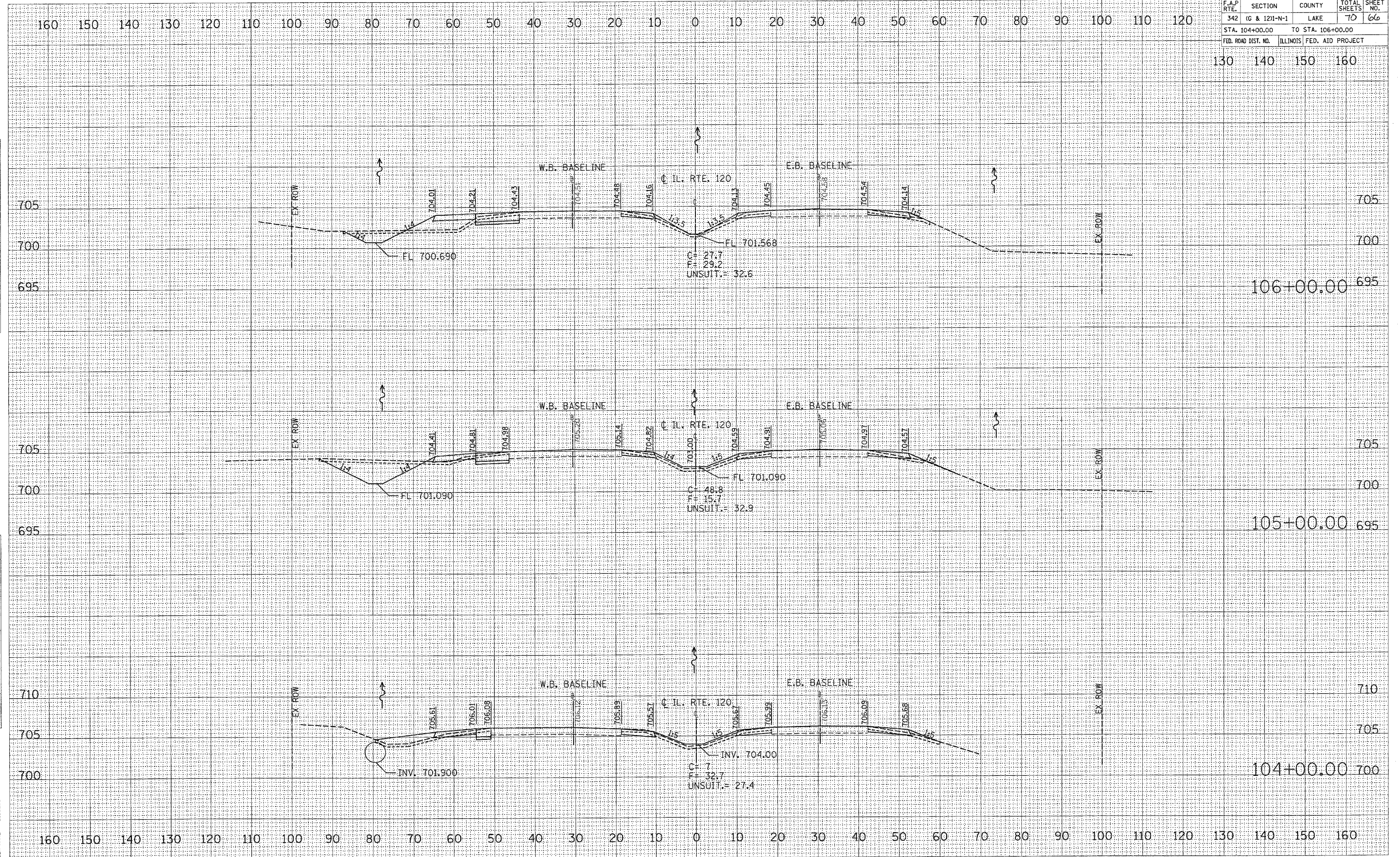


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USER NAME = ebabara



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CONTRACT NO. 62883				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	G & 1211-N-1	LAKE	70	66
STA. 104+00.00		TO STA. 106+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

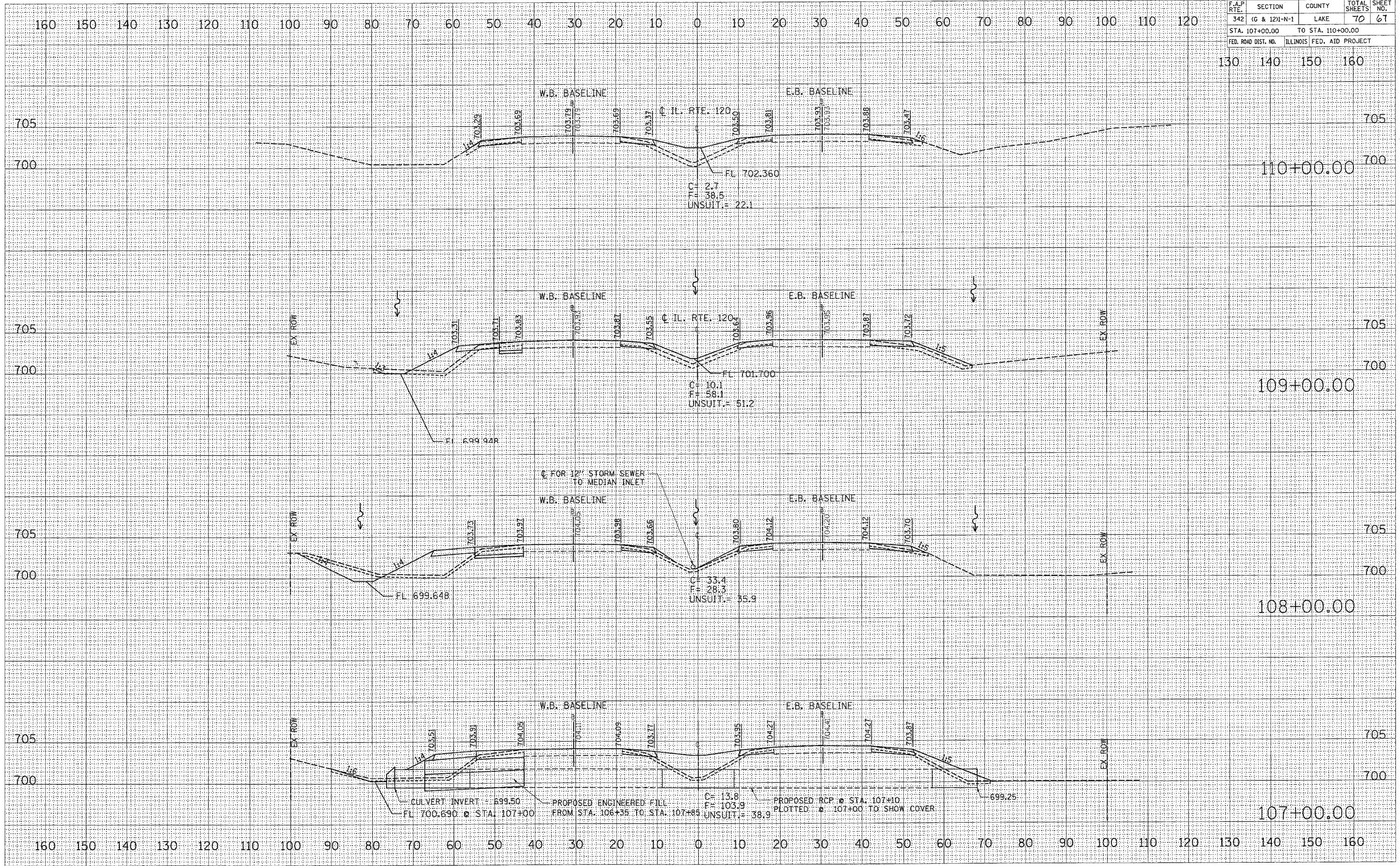


DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	

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 USER NAME = abibawa

CONTRACT NO. 62883				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G & 12)I-N-1	LAKE	70	67
STA. 107+00.00		TO STA. 110+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



DATE: _____ BY: _____
 SURVEYED: _____
 PLOTTED: _____
 TEMPLATE: _____
 REVISIONS: _____
 CHECKED: _____
 NO. _____

DATE: _____ BY: _____
 SURVEYED: _____
 PLOTTED: _____
 TEMPLATE: _____
 REVISIONS: _____
 CHECKED: _____
 NO. _____

DATE: 9/26/2006
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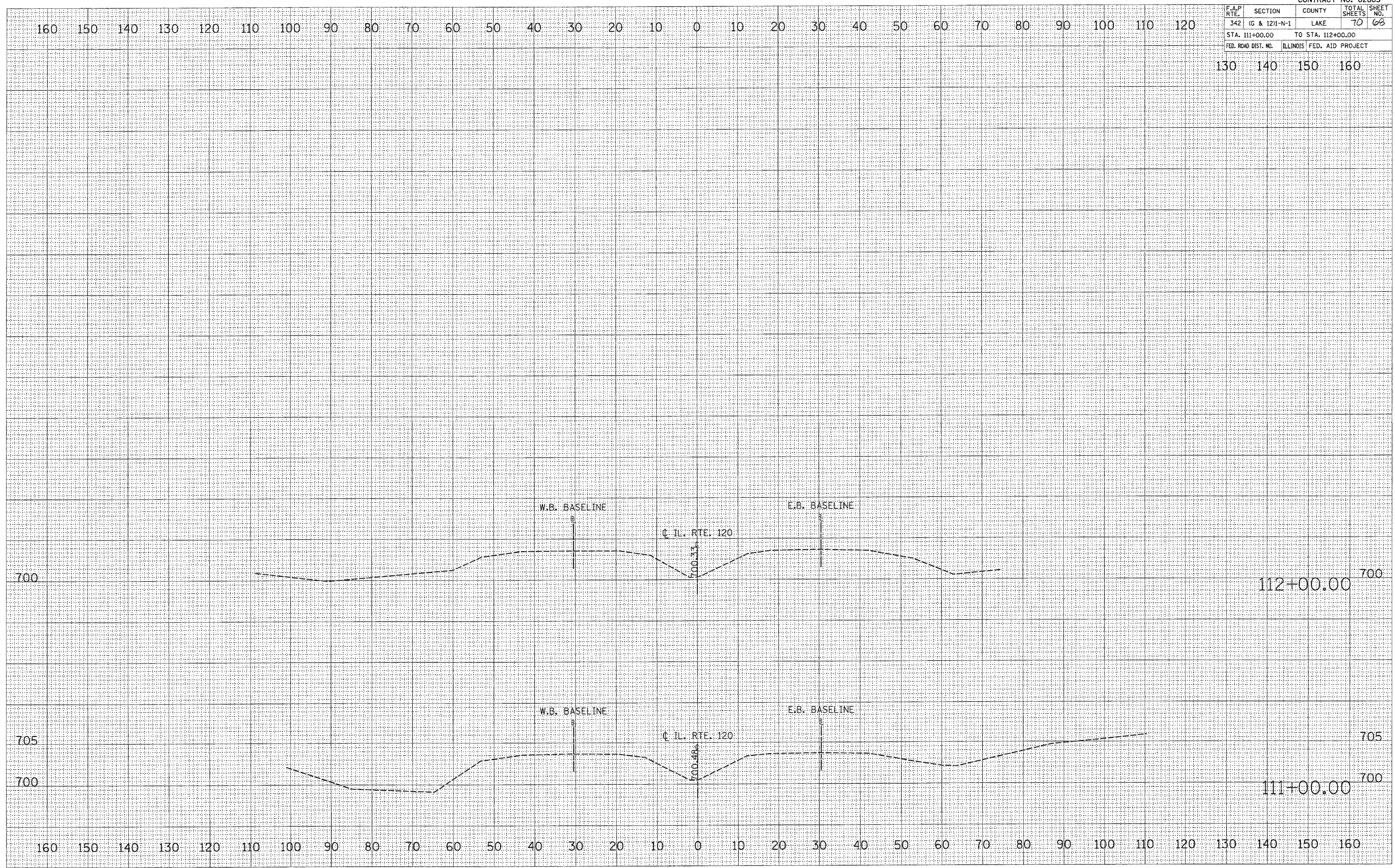
CONTRACT NO. 62883

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	IG & 1211-N-1	LAKE	70	68
STA. 111+00.00		TO STA. 112+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	DATE
NOTED	BY
PLATE	
NOTE BOOK	
APPROVED	
NO.	

ORIGINAL SURVEY	DATE
PLATE	BY
NOTE BOOK	
APPROVED	
NO.	

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PLOT SCALE = 1/8" = 100'
USER NAME = dsherman



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	IG & 1211-N-1	LAKE	70	69
STA. 11+00.00		TO STA. 13+00.00		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

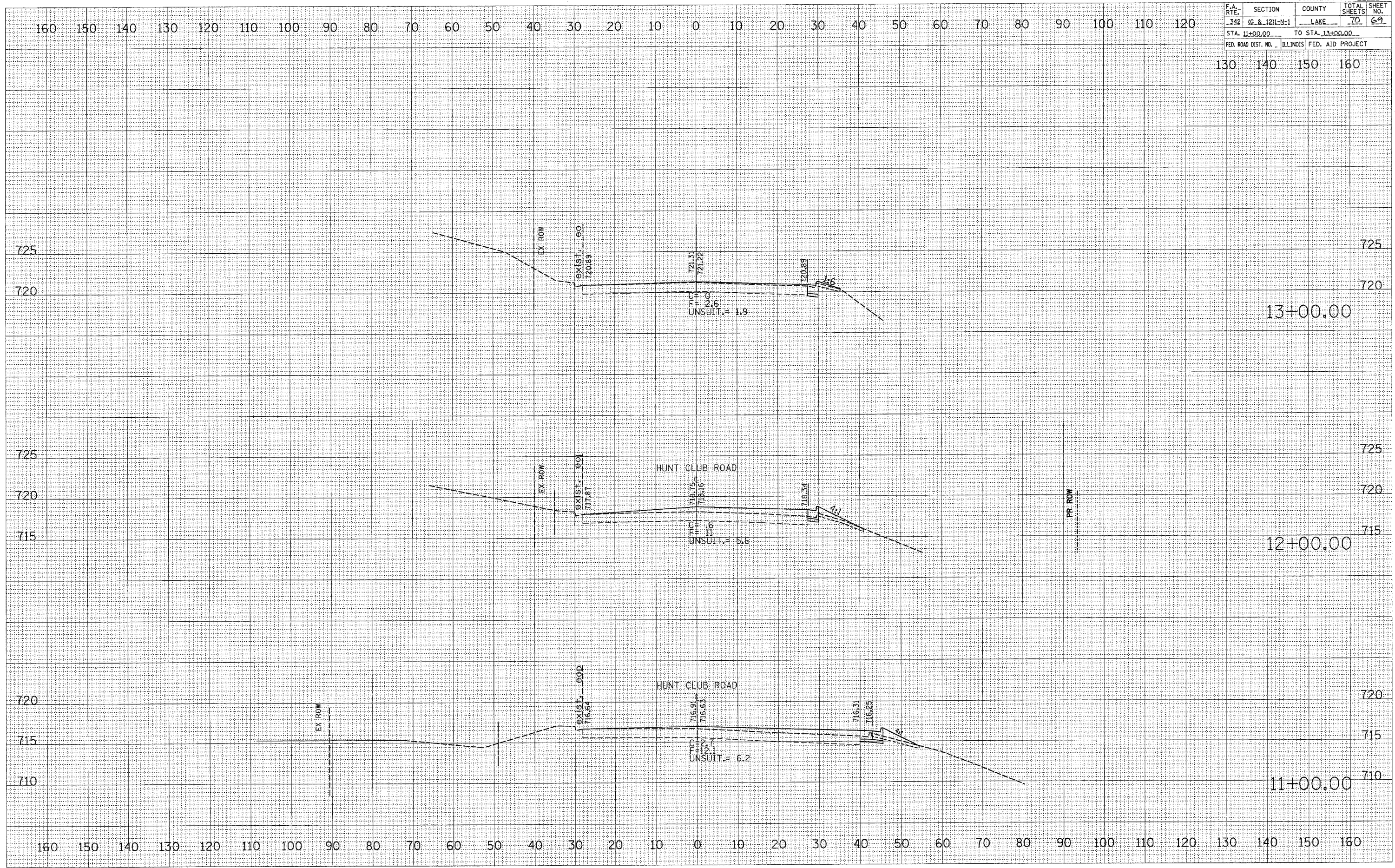
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130 140 150 160

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NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

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

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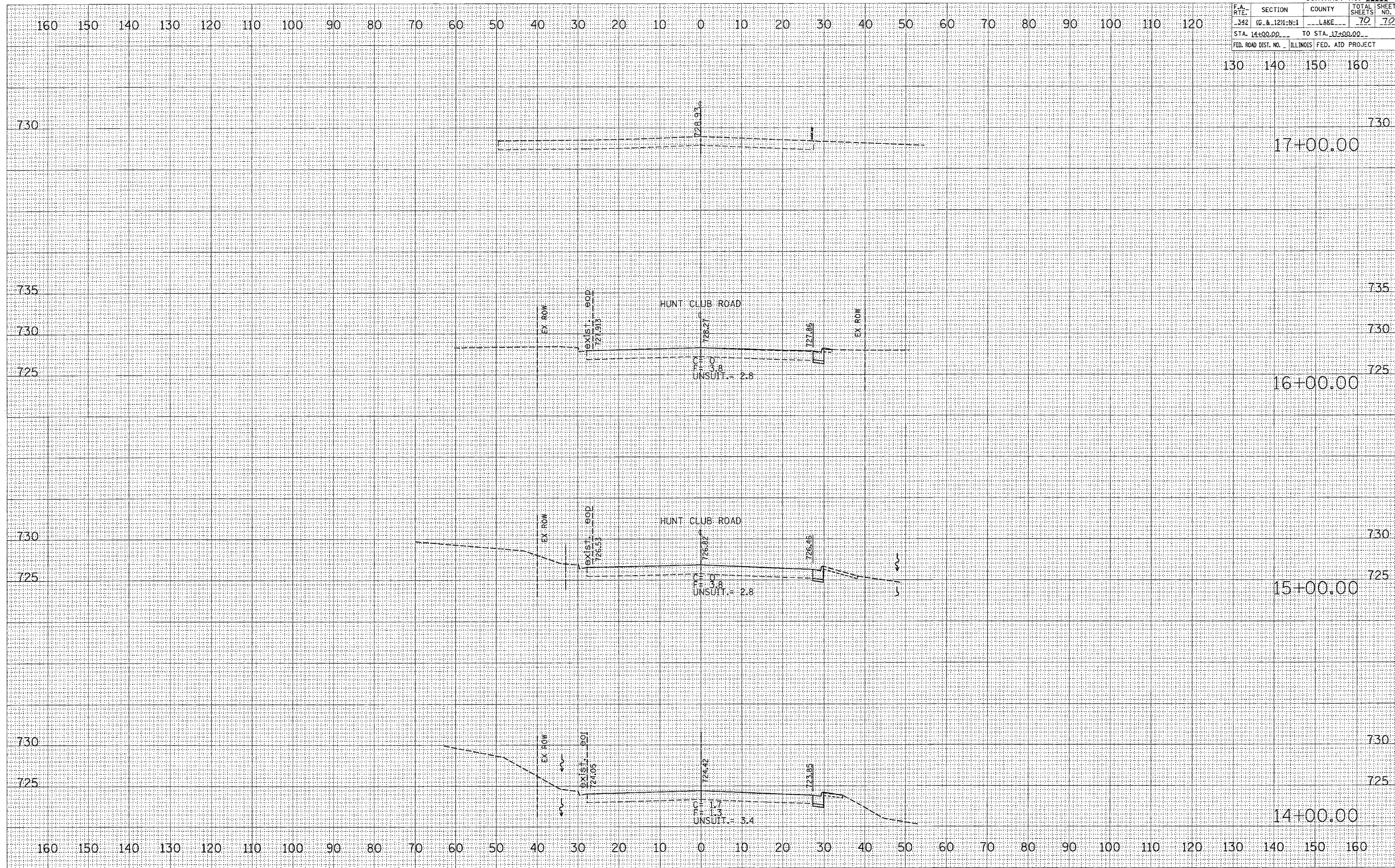


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	16 & 121-N-1	LAKE	70	70
STA. 14+00.00 TO STA. 17+00.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
SUBMITTED	BY
NOTE BOOK	
AREAS CHECKED	
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ORIGINAL SURVEY	DATE
SUBMITTED	BY
NOTE BOOK	
AREAS CHECKED	
NO.	

PLOT DATE = 9/26/2008
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 USER NAME = cbbrown



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730

730

17+00.00

735

735

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725

725

15+00.00

730

730

725

725

14+00.00

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160