

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**  
**IDOT / IDNR STATEWIDE**  
**HENNEPIN CANAL LOCK 21**  
**SECTION PARK ROADS**  
**BUREAU COUNTY**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PARK ROADS	BUREAU	28	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 46211		

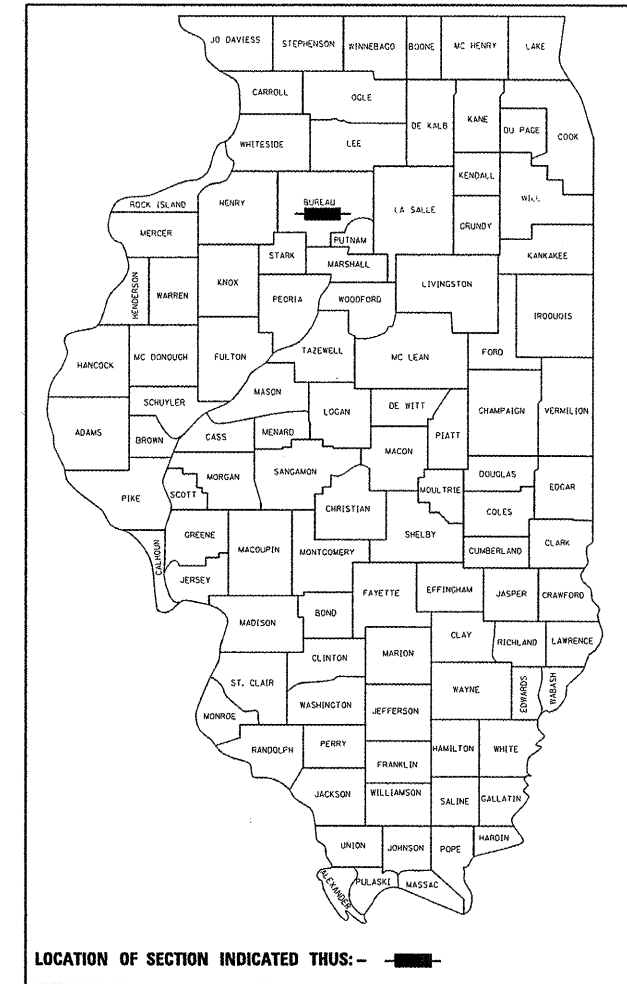
P-30-001-12

**INDEX OF SHEETS**

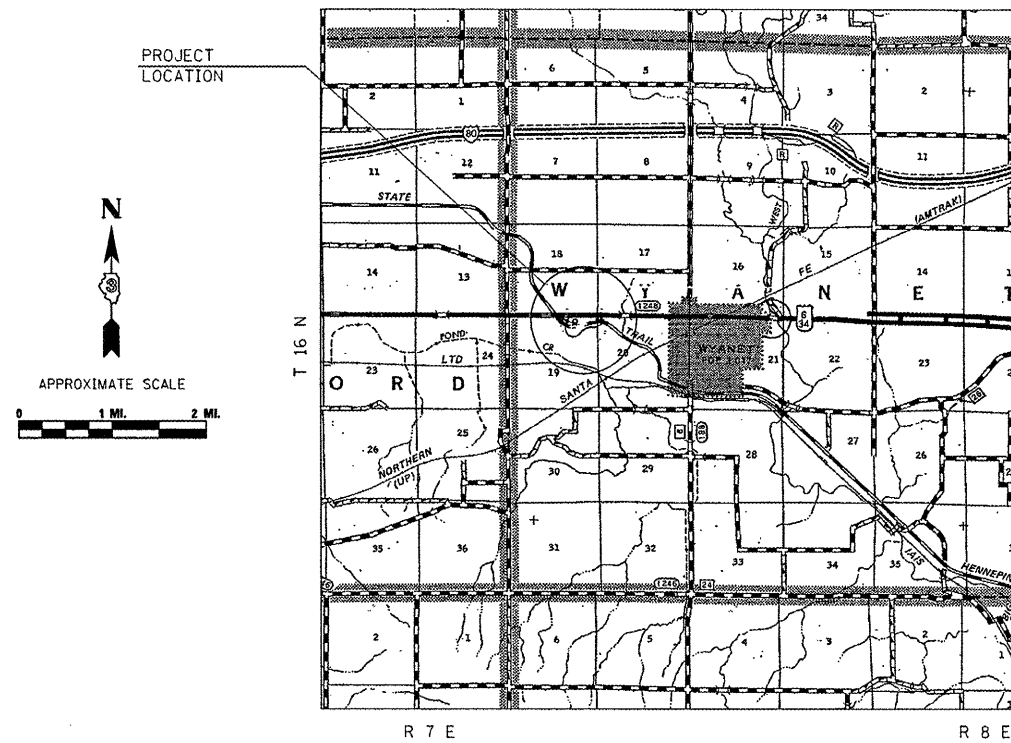
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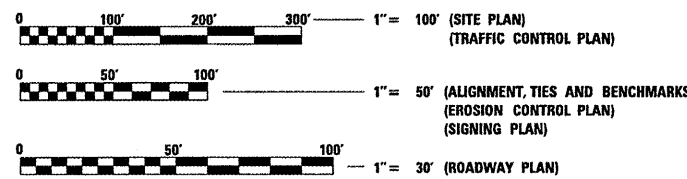


**IDNR PROJECT NO. 1-12-005**  
**C-30-045-11**



**LOCATION MAP**

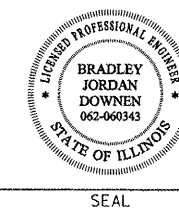
	NET LENGTH	GROSS LENGTH
MAIN ENTRANCE ROAD:	445.00 FT	445.00 FT
MAIN CAMPGROUND ROAD:	922.65 FT	922.65 FT
BOAT RAMP ROAD:	487.51 FT	487.51 FT
EQUESTRIAN CAMPGROUND ROAD:	3,440.00 FT	3,440.00 FT
TOTAL PROJECT IMPROVEMENTS:	5,295.16 FT (1.00 MILES)	5,295.16 FT (1.00 MILES)



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  
 OR 811

**PROJECT ENGINEER: LANCE KIDD (217) 785-2933**  
**CONTRACT NO. 46211**



SIGNATURE: *Bradley Downen*  
 DATE SIGNED: 3-28-2012  
 LICENSE EXPIRATION DATE: 11-30-2013



**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**

SUBMITTED *May 8 2012*  
*William R. Freyja*  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

*May 11 2012*  
*acton* ENGINEER OF DESIGN AND ENVIRONMENT

*May 11 2012*  
*acton* *William R. Freyja*  
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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**OF THE STATE OF ILLINOIS**

**GENERAL NOTES**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.
2. TREE REMOVALS SHOWN IN THE PLANS SHALL BE MARKED IN THE FIELD AND VERIFIED BY THE ENGINEER PRIOR TO REMOVAL BY THE CONTRACTOR. ALL REMAINING TREES SHALL BE PROTECTED BY THE CONTRACTOR FROM DAMAGE DUE TO HIS OPERATIONS.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE LANDSCAPE ARCHITECT KATHY CINDRICH (815-434-6131) AT LEAST 14 DAYS IN ADVANCE OF TREE PLANTING. TREE PLANTING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER AND THE IDNR SITE SUPERINTENDANT DAVE HAHNE. TREE PLANTING LOCATIONS COULD INCLUDE THE LOCK 21 PARK SITE AND THE IDNR VISITORS CENTER, APPROXIMATELY 4.5 MILES NORTHWEST OF THE PROJECT SITE.
4. WHERE CLEANING OR PRUNING IS REQUIRED FOR PROPOSED IMPROVEMENTS, IT SHALL BE IN ACCORDANCE WITH SECTION 201 OF THE STANDARD SPECIFICATIONS EXCEPT THAT ANY COST FOR CLEARING OR PRUNING REQUIRED SHALL BE INCLUDED IN THE UNIT PRICE FOR EARTH EXCAVATION (WIDENING).
5. EXCESS EXCAVATION MAY BE DISPOSED OF WITHIN PARK BOUNDARIES AND A LOCATION APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL SPECIFY TO THE ENGINEER, IN WRITING, HOW THE LANDSCAPE RESTORATION WILL BE ACCOMPLISHED. PLACEMENT OF FILL IN SUCH AREAS SHALL NOT COMMENCE UNTIL THE CONTRACTOR'S LANDSCAPE RESTORATION PLAN IS APPROVED BY THE ENGINEER AS STATED IN ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
6. GRADING SHALL BE DONE BY HAND AROUND LIGHT POLES, UTILITY POLES, SIGN POSTS, SHRUBS, TREES OR OTHER NATURAL OR MAN-MADE OBJECTS WHERE SHALLOW FILLS OR CUTS ARE ADJACENT TO THE ITEMS. IT IS THE INTENT THAT THE LIMITS OF CONSTRUCTION BE SUCH AS TO PRESERVE IN THE ORIGINAL STATE AS MUCH AREA AS POSSIBLE. THE DECISION AS TO ITEMS TO REMAIN IN PLACE SHALL BE DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR EARTH EXCAVATION (WIDENING), AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
7. SEEDING SHALL BE DONE ON ALL AREAS THAT ARE DISTURBED BY CONSTRUCTION OPERATIONS AS DIRECTED BY THE ENGINEER. SEEDING SHALL BE PAID FOR ONLY WITHIN THE PROPOSED CONSTRUCTION LIMITS. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDED, AS DIRECTED BY THE ENGINEER, AT THE CONTRACTORS'S EXPENSE.
8. THE EXISTING CONCRETE BLOCKS LOCATED ALONG THE MAIN CAMPGROUND ROAD AND THE THE EXISTING CONCRETE FENCE POSTS LOCATED THROUGHOUT THE PROJECT ARE HISTORIC ARTIFACTS AND SHALL BE PROTECTED TO PREVENT DAMAGE FROM THE CONTRACTOR'S OPERATIONS.
9. WHERE PROPOSED CONSTRUCTION ABUTS EXISTING APPURTENANCES, A SAW CUT SHALL BE MADE TO ACHIEVE A NEAT CONSTRUCTION JOINT. SAW CUTTING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT PRICE FOR THE ITEM BEING CONSTRUCTED.
10. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
11. FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.
12. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:
 

GRANULAR MATERIALS	2.05 TONS / CU YD
BITUMINOUS SURFACE TREATMENTS:	
PRIME COAT	0.5 GAL / SQ YD
COVER & SEAL COAT	0.5 GAL / SQ YD
COVER COAT AGGREGATE	20 LB / SQ YD
SEAL COAT AGGREGATE	20 LB / SQ YD
13. THE CONTRACTOR SHALL NOTIFY THE ILLINOIS DEPARTMENT OF NATURAL RESOURCES HENNEPIN CANAL PARKWAY SITE SUPERINTENDENT DAVE HAHNE, AT PHONE NUMBER 815-454-2328 AT LEAST TWO WEEKS IN ADVANCE OF MOVING EQUIPMENT, MATERIALS, OR WORK FORCES TO THE SITE.

FILE NAME =	USER NAME = OpenH&B Springfield	DESIGNED - MJO	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES IDNR HENNEPIN CANAL LOCK 21</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
L:\DDT\1106610\W0_4\Draw\CA00_Sheets\046211-sht-Gennote.dgn	46211-sht-Gennote.dgn	DRAWN - RAH	REVISED -				PARK ROADS	BUREAU	28	2	
PLOT SCALE = 40.0000' / IN.		CHECKED - BJD	REVISED -			CONTRACT NO. 46211					
PLOT DATE = 3/29/2012		DATE - 3/30/12	REVISED -			ILLINOIS FED. AID PROJECT					
				SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.							

SUMMARY OF QUANTITIES		CONSTRUCTION CODE	
		0005	
CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY <i>100% STATE</i>
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	126
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	92
20200500	EARTH EXCAVATION (WIDENING)	CU YD	1,061
20800150	TRENCH BACKFILL	CU YD	14.8
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	772
21400100	GRADING AND SHAPING DITCHES	FOOT	650
25000100	SEEDING, CLASS 1	ACRE	1.50
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	135
25000500	PHOSPHOROUS FERTILIZER NUTRIENT	POUND	135
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	135
25000700	AGRICULTURAL GROUND LIMESTONE	TON	3.0
25100115	MULCH, METHOD 2	ACRE	3.00
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	150
28000305	TEMPORARY DITCH CHECKS	FOOT	32

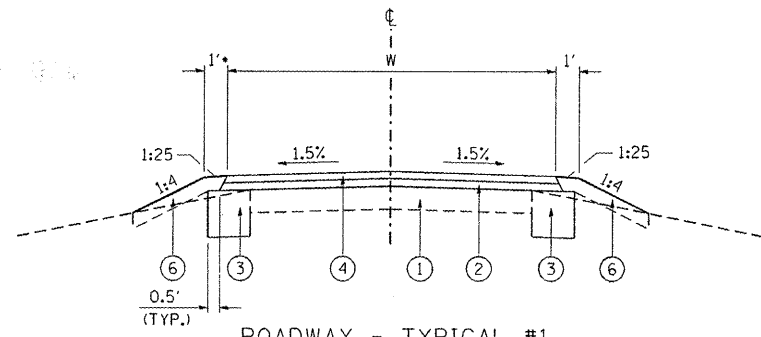
SUMMARY OF QUANTITIES		CONSTRUCTION CODE	
		0005	
CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY <i>100% STATE</i>
28000400	PERIMETER EROSION BARRIER	FOOT	3,560
28000500	INLET AND PIPE PROTECTION	EACH	5
28100105	STONE RIPRAP, CLASS A3	SQ YD	53
35100100	AGGREGATE BASE COURSE, TYPE A	TON	1,154
35100300	AGGREGATE BASE COURSE, TYPE A 4"	SQ YD	114
35101100	AGGREGATE BASE COURSE, TYPE A 12"	SQ YD	3,551
35800100	PREPARATION OF BASE	SQ YD	7,658
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	5,061
40300300	BITUMINOUS MATERIALS (COVER AND SEAL COATS)	GALLON	15,173
40300500	COVER COAT AGGREGATE	TON	202
40300600	SEAL COAT AGGREGATE	TON	101
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	135
44000100	PAVEMENT REMOVAL	SQ YD	13
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	135

SUMMARY OF QUANTITIES			CONSTRUCTION CODE	
			0005	
CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	
50105220	PIPE CULVERT REMOVAL	FOOT	50	
50700105	TREATED TIMBER	F. B. M.	2,440	
50700305	HARDWARE	POUND	70	
542D0217	PIPE CULVERTS, CLASS D, TYPE 1 12"	FOOT	43	
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	59	
54215547	METAL END SECTIONS 12"	EACH	2	
54215553	METAL END SECTIONS 18"	EACH	3	
54248510	CONCRETE COLLAR	CU YD	0.4	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	
67100100	MOBILIZATION	L SUM	1	
72000100	SIGN PANEL - TYPE 1	SQ FT	31.25	
72000200	SIGN PANEL - TYPE 2	SQ FT	24.00	
72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	1	
72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	3	

SUMMARY OF QUANTITIES			CONSTRUCTION CODE	
			0005	
CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	
72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	4	
73000100	WOOD SIGN SUPPORT	FOOT	210	
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	240	
A2001716	TREE, ACER SACCHARUM (SUGAR MAPLE), 2" CALIPER, <b>BALLED AND BURLAPPED</b>	EACH	2	
A2002916	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, <b>BALLED AND BURLAPPED</b>	EACH	4	
A2006516	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, <b>BALLED AND BURLAPPED</b>	EACH	4	
A2006716	TREE, QUERCUS MACROCARPA (BUR OAK), 2" CALIPER, <b>BALLED AND BURLAPPED</b>	EACH	4	
A2007116	TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER, <b>BALLED AND BURLAPPED</b>	EACH	4	
A2007816	TREE, TILIA AMERICANA (AM. LINDEN/BASSWOOD), 2" CALIPER, <b>BALLED AND BURLAPPED</b>	EACH	2	
X0300249	REMOVE EXISTING GATE	EACH	3	
<b>X5420612</b>	<b>PIPE CULVERTS TO BE CLEANED 12"</b>	<b>FOOT</b>	<b>40</b>	
<b>X5420618</b>	<b>PIPE CULVERTS TO BE CLEANED 18"</b>	<b>FOOT</b>	<b>75</b>	
X0323003	TUBULAR STEEL GATE	EACH	3	
X0325451	NON-SHRINK GROUT	CU FT	16.3	
X0325689	REMOVAL OF EXISTING TIMBER MEMBERS	L SUM	1	

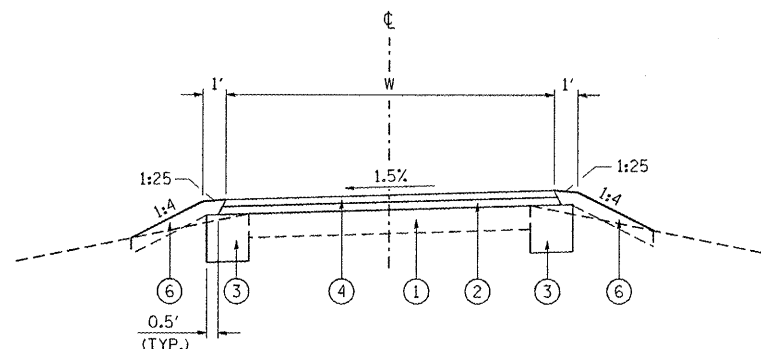
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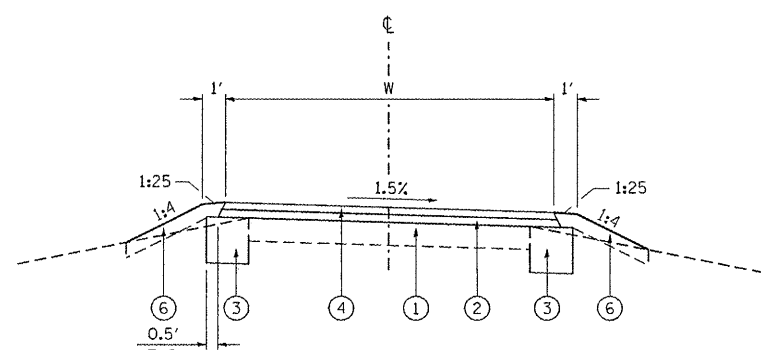


**ROADWAY - TYPICAL #1**  
 MAIN ENTRANCE: STA. 30+00 TO STA. 34+45  
 MAIN CAMPGROUND: STA. 26+00 TO STA. 27+50  
 EQUESTRIAN: STA. 71+50 TO STA. 78+00\*  
 STA. 80+00 TO BRIDGE OMISSION  
 BRIDGE OMISSION TO STATION 81+50  
 STA. 84+00 TO STA. 84+40

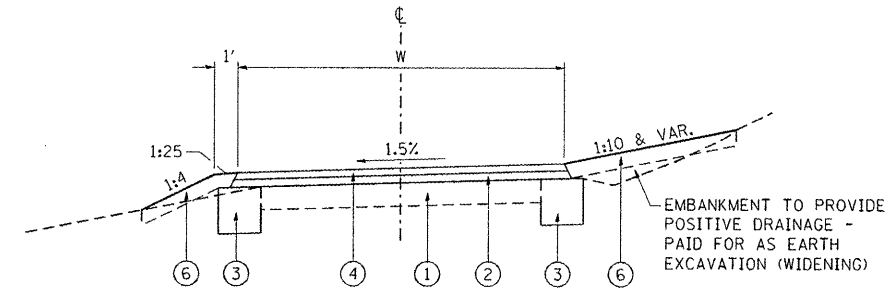
\* STA. 72+50 TO STA. 75+50 LT. (EQUESTRIAN)  
 ELIMINATE 1' EARTH SHELF AND INCREASE SIDE SLOPE TO 1:3 (MAX.) TO MINIMIZE GRADING AROUND EXISTING CONCRETE FENCE POSTS.



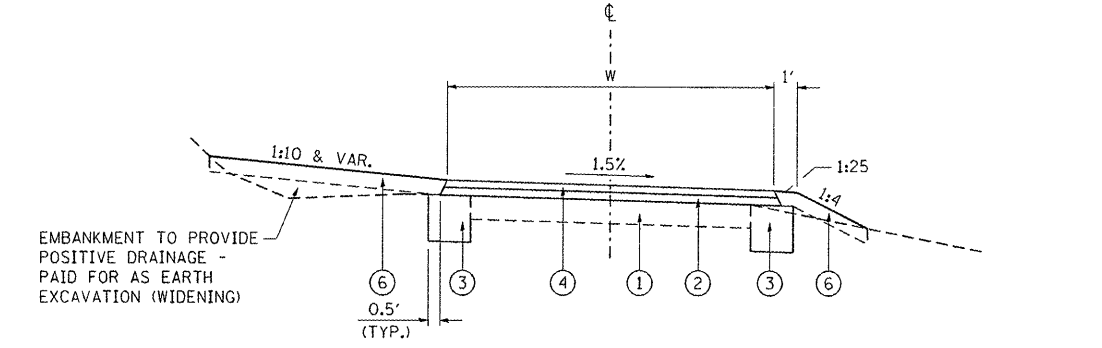
**ROADWAY - TYPICAL #2**  
 MAIN CAMPGROUND: STA. 20+00 TO STA. 23+00  
 EQUESTRIAN: STA. 50+00 TO STA. 66+00



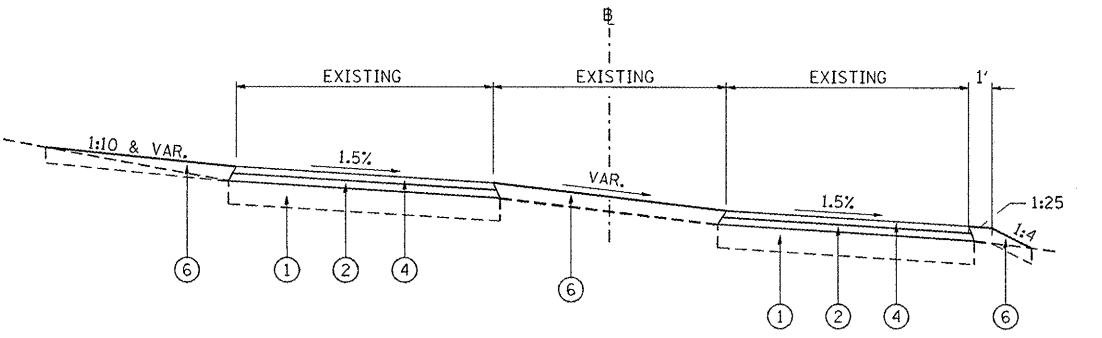
**ROADWAY - TYPICAL #3**  
 BOAT RAMP: STA. 14+00 TO STA. 15+00  
 EQUESTRIAN: STA. 66+00 TO STA. 68+50  
 STA. 83+00 TO STA. 84+00



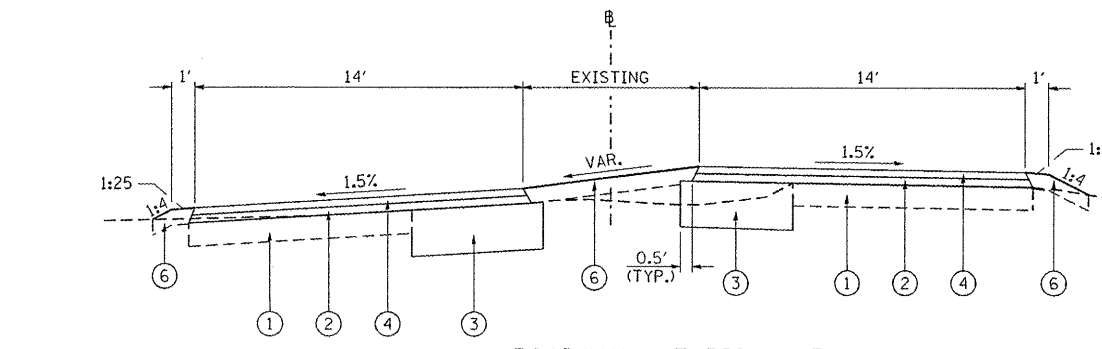
**ROADWAY - TYPICAL #4**  
 EQUESTRIAN: STA. 68+50 TO STA. 71+50



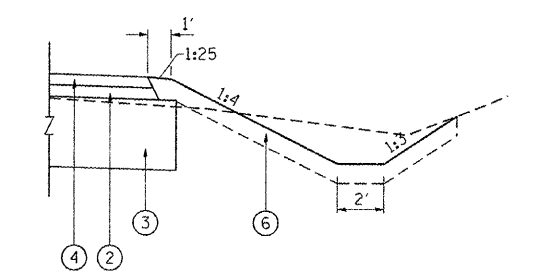
**ROADWAY - TYPICAL #5**  
 BOAT RAMP: STA. 12+00 TO STA. 14+00  
 MAIN CAMPGROUND: STA. 23+00 TO STA. 26+00  
 EQUESTRIAN: STA. 78+00 TO STA. 80+00  
 STA. 81+50 TO STA. 83+00



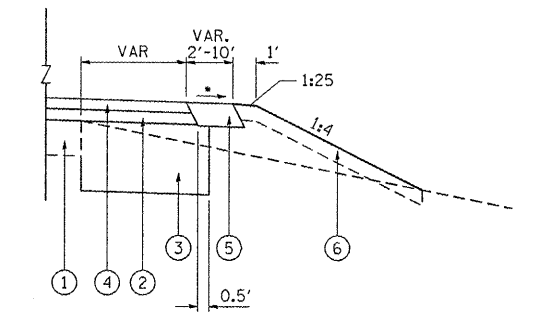
**ROADWAY - TYPICAL #6**  
 BOAT RAMP: STA. 11+00 TO STA. 12+00



**ROADWAY - TYPICAL #7**  
 MAIN CAMPGROUND: STA. 27+50 TO STA. 29+25



**DITCH SECTION - TYPICAL**  
 MAIN ENTRANCE: STA. 30+15 TO STA. 31+15, RT.  
 BOAT RAMP: STA. 14+00 TO STA. 14+50, LT.  
 MAIN CAMPGROUND: STA. 20+50 TO STA. 23+00, LT.  
 EQUESTRIAN: STA. 74+00 TO STA. 75+00, RT.  
 STA. 82+00 TO STA. 83+00, RT.  
 STA. 83+00 TO STA. 83+50, LT.



**AGGREGATE SHOULDER - TYPICAL**  
 EQUESTRIAN: STA. 56+18 TO STA. 56+70, RT.  
 STA. 68+00 TO STA. 70+50, RT.  
 STA. 78+24 TO STA. 78+39, LT.  
 STA. 79+67 TO STA. 79+83, LT.  
 \* MATCH ADJACENT PAVEMENT OR ENTRANCE

**ROADWAY WIDTHS**  
 MAIN ENTRANCE: W = 22'  
 MAIN CAMPGROUND ROAD: W = 18'  
 BOAT RAMP ROAD: W = 18'  
 EQUESTRIAN CAMPGROUND ROAD: W = 14'  
 \* SEE PLAN SHEETS FOR NON-SYMMETRICAL WIDENING

- LEGEND**
- ① EXISTING AGGREGATE BASE
  - ② AGGREGATE BASE COURSE, TYPE A (2")
  - ③ AGGREGATE BASE COURSE, TYPE A (12")
  - ④ BITUMINOUS SURFACE TREATMENT (CLASS A-3):  
 BITUMINOUS MATERIALS (PRIME COAT)  
 BITUMINOUS MATERIALS (COVER AND SEAL COATS)  
 COVER COAT AGGREGATE  
 SEAL COAT AGGREGATE
  - ⑤ AGGREGATE SHOULDERS, TYPE B 6"
  - ⑥ TOPSOIL EXCAVATION AND PLACEMENT (4")

- NOTES:**
1. ROADWAY CROSS SLOPE TRANSITIONS SHALL BE ACCOMPLISHED OVER 50'
  2. EXISTING ROADWAY WIDTHS VARY AND NOT ALL LOCATIONS REQUIRE WIDENING. WHERE WIDENING IS REQUIRED TO ACHIEVE THE PROPOSED WIDTH, THE ROADWAY BASE SHALL BE WIDENED A MINIMUM OF ONE FOOT OFF OF THE EXISTING EDGE OF AGGREGATE BASE. SEE ROADWAY PLAN SHEETS AND WIDTH (W) DIMENSIONS ABOVE.

FILE NAME :	USER NAME : OpenH&B Springfield	DESIGNED - MJO	REVISED -
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PLOT SCALE : 8.00000 ' / IN.		CHECKED - BJD	REVISED -
PLOT DATE : 3/29/2012		DATE - 3/30/12	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS & PAVEMENT STRUCTURE DETAILS  
 IDNR HENNEPIN CANAL LOCK 21 PARK SITE**

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PARK ROADS	BUREAU	28	6
			CONTRACT NO. 46211	
ILLINOIS FED. AID PROJECT				

TREE REMOVAL

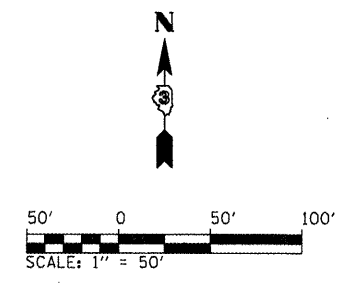
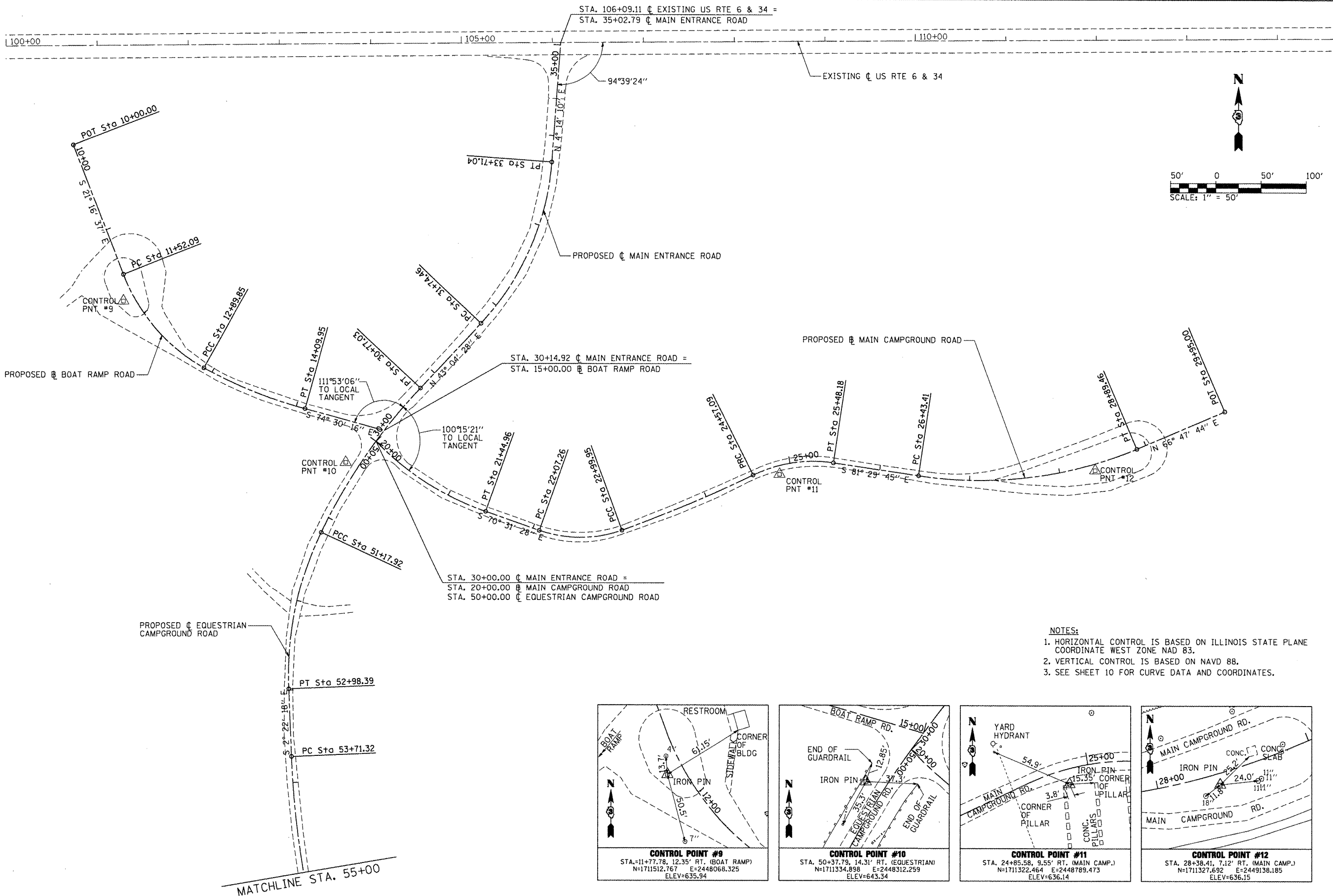
STATION/LOCATION	TREE REMOVAL (6 TO 15 UNITS)		TREE REMOVAL (OVER 15 UNITS)	
		(UNIT)		(UNIT)
BOAT RAMP ROAD				
11+10	73'LT	8		
13+18	15'LT	13		
13+21	14'LT		20	
13+21	17'LT	14		
13+23	12'LT		18	
13+23	12'LT		18	
14+00	18'LT	10		
14+06	23'LT	10		
14+12	24'LT	8		
MAIN CAMPGROUND ROAD				
25+06	31'LT	15		
EQUESTRIAN CAMPGROUND ROAD				
68+32	27'LT	8		
72+14	13'LT	8		
72+23	11'LT	12		
72+25	11'LT	12		
72+56	10'LT		18	
72+56	10'LT		18	
76+57	15'LT	8		
TOTALS		126	92	

EARTHWORK

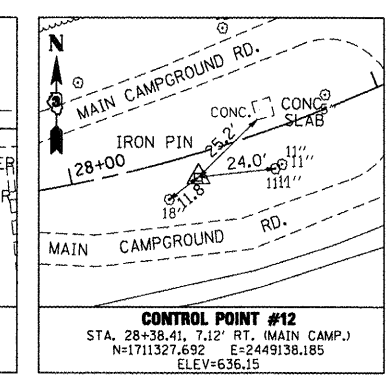
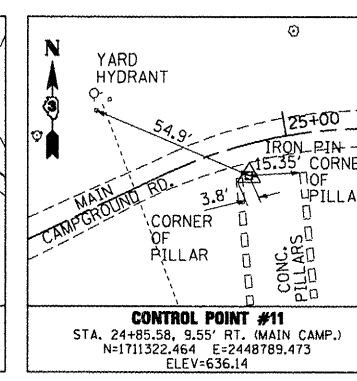
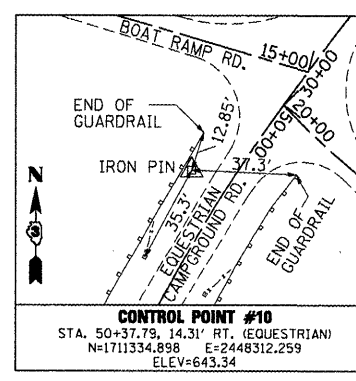
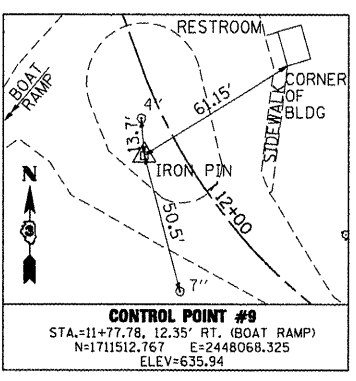
STATION / LOCATION	EARTH EXCAVATION (WIDENING)	FOR INFORMATION ONLY			TOPSOIL EXCAVATION AND PLACEMENT	GRADING AND SHAPING DITCHES
		EARTH EXCAVATION ADJUSTED FOR 25% SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE		
	(CU YD)	(CU YD)	(CU YD)	WASTE (+) SHORTAGE (-)	(CU YD)	(FOOT)
MAIN ENTRANCE						
30+00.00 - 34+45.00	100	75	3	72	63	100
BOAT RAMP ROAD						
11+00.00 - 15+00.00	241	181	33	148	111	50
MAIN CAMPGROUND ROAD						
20+00.00 - 21+00.00	132	99	84	15	42	50
21+00.00 - 29+25.00	157	118	45	73	200	200
EQUESTRIAN CAMPGROUND ROAD						
50+00.00 - 54+00.00	24	18	1	17	34	
54+00.00 - 62+50.00	96	72	1	71	51	
62+50.00 - 72+00.00	122	92	8	84	89	
72+00.00 - 80+51.12	145	109	26	83	108	100
80+90.91 - 84+40.00	44	33	1	32	74	150
TOTALS	1,061	796	202	594	772	650

PAVING

STATION / LOCATION	PREPARATION OF BASE	AGGREGATE BASE COURSE, TYPE A 12"	AGGREGATE BASE COURSE, TYPE A	AGGREGATE SHOULDERS, TYPE B 6"	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (COVER AND SEAL COATS)	COVER COAT AGGREGATE	SEAL COAT AGGREGATE
	(SQ YD)	(SQ YD)	(TON)	(SQ YD)	(GALLON)	(GALLON)	(TON)	(TON)
MAIN ENTRANCE								
30+00.00 - 34+45.00	863	280	125.0		548	1,643	21.9	11.0
BOAT RAMP ROAD								
11+00.00 - 15+00.00	1,059	524	159.7		700	2,099	28.0	14.0
MAIN CAMPGROUND ROAD								
20+00.00 - 21+00.00	150	106	23.9		105	315	4.2	2.1
21+00.00 - 29+25.00	1,263	736	218.3		957	2,869	38.2	19.1
EQUESTRIAN CAMPGROUND ROAD								
50+00.00 - 54+00.00	558	161	76.2		334	1,002	13.4	6.7
54+00.00 - 62+50.00	1,104	389	150.9	46	662	1,984	26.4	13.2
62+50.00 - 72+00.00	1,240	503	169.0	56	741	2,221	29.6	14.8
72+00.00 - 80+51.12	1,009	593	168.2	33	737	2,211	29.5	14.7
80+90.91 - 84+40.00	412	259	63.1		277	829	11.0	5.5
TOTALS	7,658	3,551	1,154.3	135	5,061	15,173	202.2	101.1



- NOTES:**
1. HORIZONTAL CONTROL IS BASED ON ILLINOIS STATE PLANE COORDINATE WEST ZONE NAD 83.
  2. VERTICAL CONTROL IS BASED ON NAVD 88.
  3. SEE SHEET 10 FOR CURVE DATA AND COORDINATES.



FILE NAME =	USER NAME = OpenH&B Springfield	DESIGNED - MJO	REVISED -
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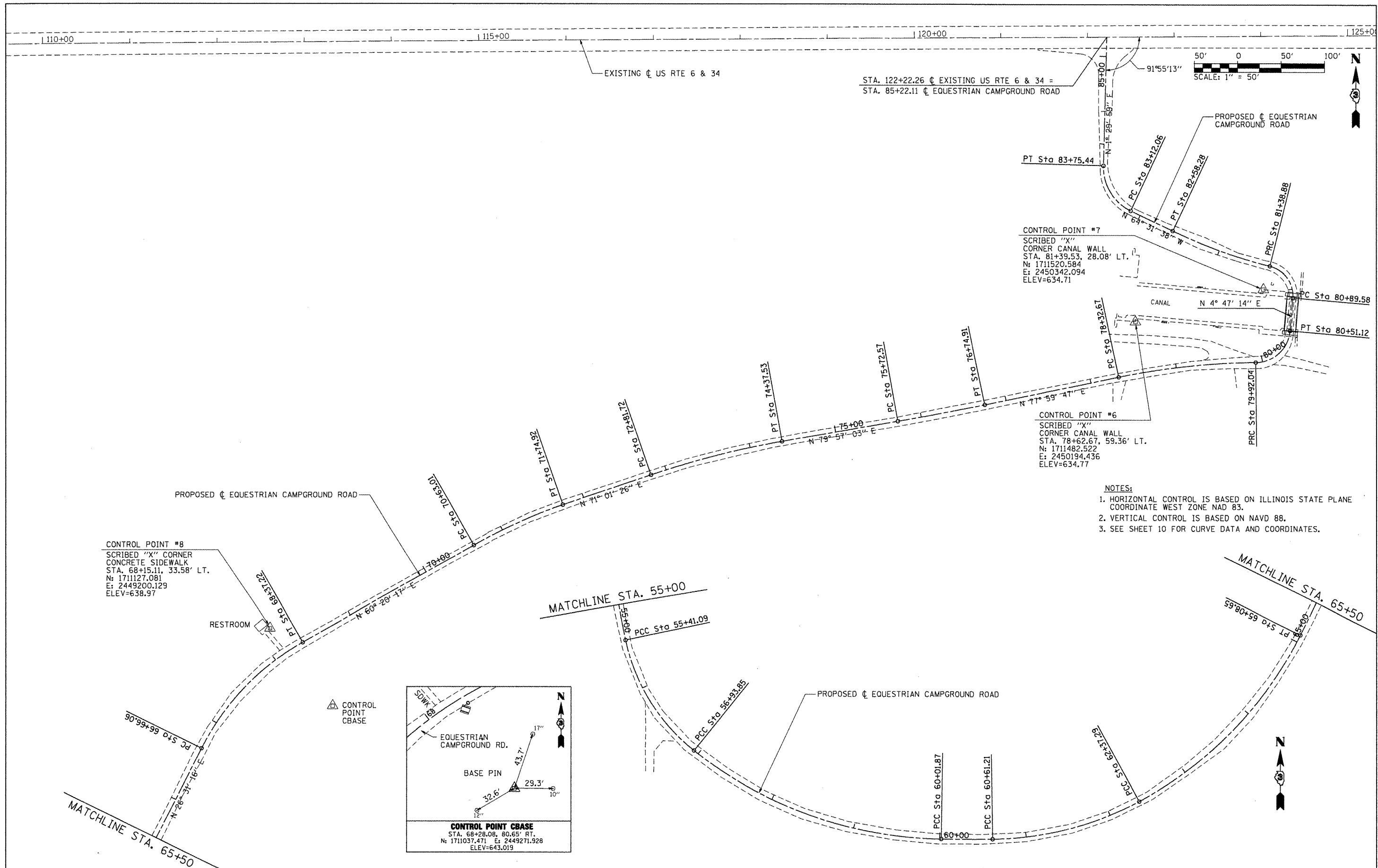
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES AND BENCHMARKS  
 IDNR HENNEPIN CANAL LOCK 21 PARK SITE**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PARK ROADS	BUREAU	28	8
			CONTRACT NO.	46211
ILLINOIS FED. AID PROJECT				

SCALE: 1" = 50' SHEET NO. 1 OF 3 SHEETS STA. TO STA.



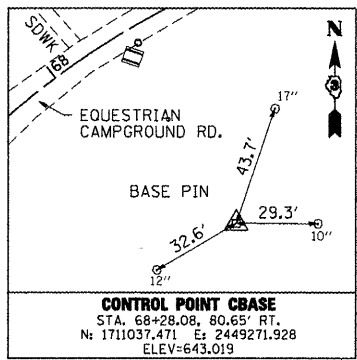


CONTROL POINT #7  
 SCRIBED "X"  
 CORNER CANAL WALL  
 STA. 81+39.53, 28.08' LT.  
 N: 1711520.584  
 E: 2450342.094  
 ELEV=634.71

CONTROL POINT #6  
 SCRIBED "X"  
 CORNER CANAL WALL  
 STA. 78+62.67, 59.36' LT.  
 N: 1711482.522  
 E: 2450194.436  
 ELEV=634.77

CONTROL POINT #8  
 SCRIBED "X" CORNER  
 CONCRETE SIDEWALK  
 STA. 68+15.11, 33.58' LT.  
 N: 1711127.081  
 E: 2449200.129  
 ELEV=638.97

- NOTES:
- HORIZONTAL CONTROL IS BASED ON ILLINOIS STATE PLANE COORDINATE WEST ZONE NAD 83.
  - VERTICAL CONTROL IS BASED ON NAVD 88.
  - SEE SHEET 10 FOR CURVE DATA AND COORDINATES.



FILE NAME *	USER NAME * OpenH8 Springfield	DESIGNED - MJO	REVISED -
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		DATE - 3/30/12	REVISED -

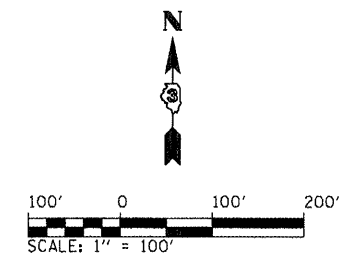
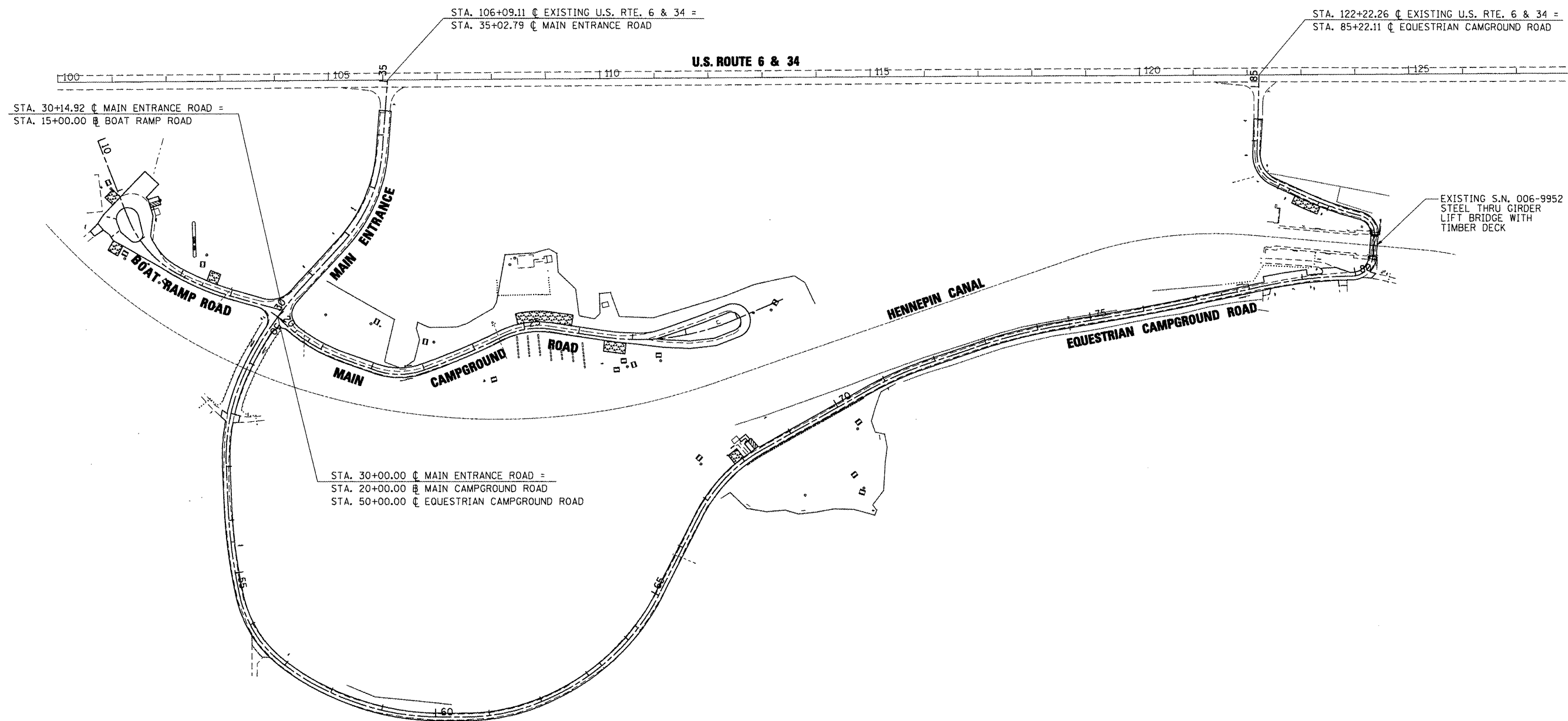
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES AND BENCHMARKS  
 IDNR HENNEPIN CANAL LOCK 21 PARK SITE**

SCALE: 1" = 50' SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PARK ROADS	BUREAU	28	9
			CONTRACT NO. 46211	
ILLINOIS FED. AID PROJECT				



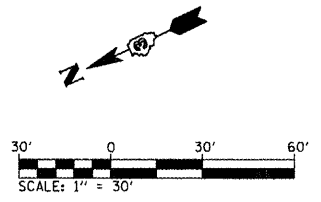
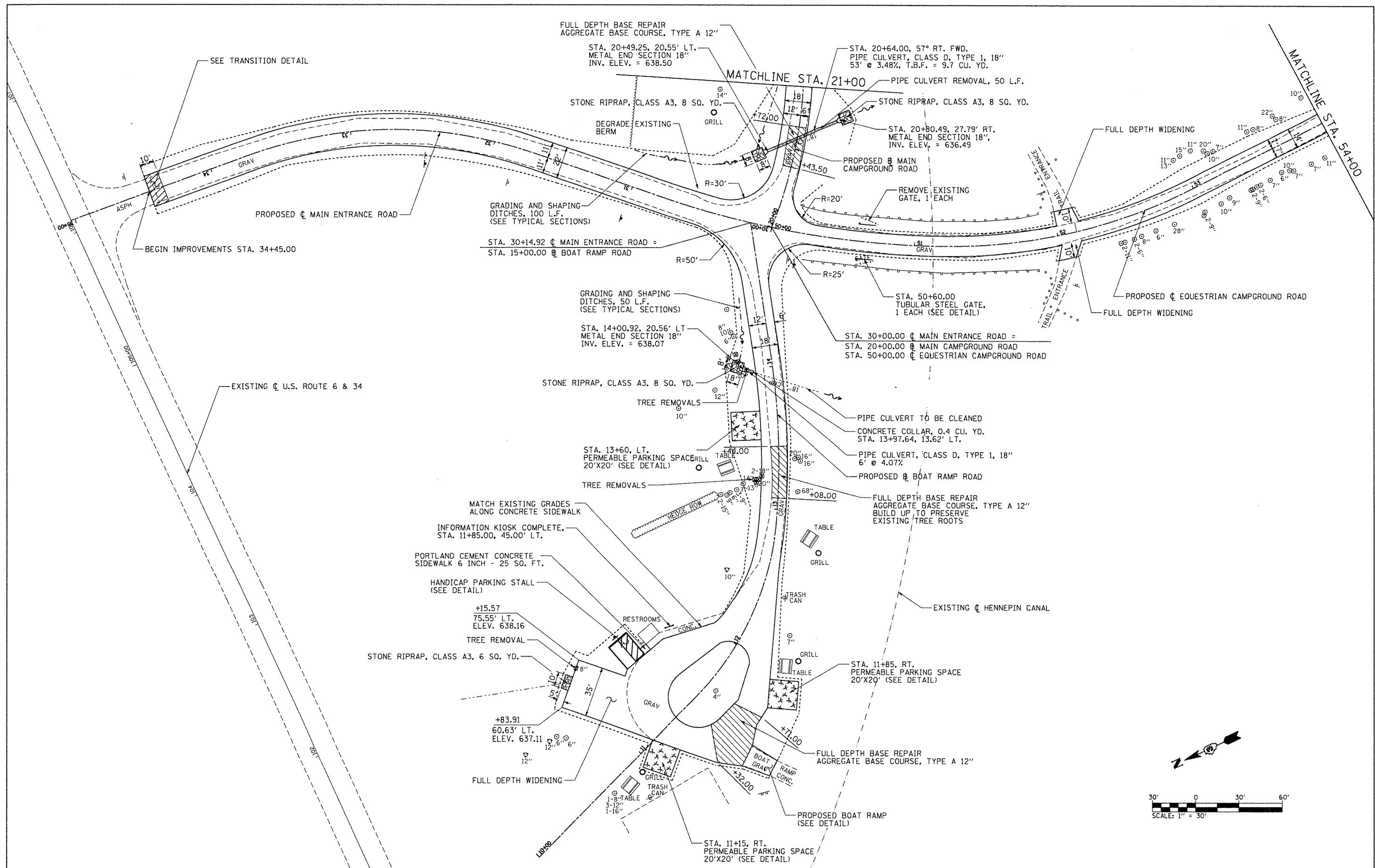


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PLOT DATE = 3/29/2012		DATE - 3/30/12	REVISED -

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

<b>SITE PLAN</b> <b>IDNR HENNEPIN CANAL LOCK 21 PARK SITE</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			PARK ROADS	BUREAU	28	11
SCALE: 1" = 100'	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		CONTRACT NO. 46211	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PARK ROADS	BUREAU	28	11
ILLINOIS FED. AID PROJECT				



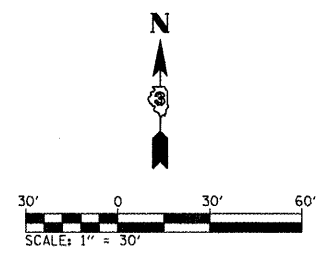
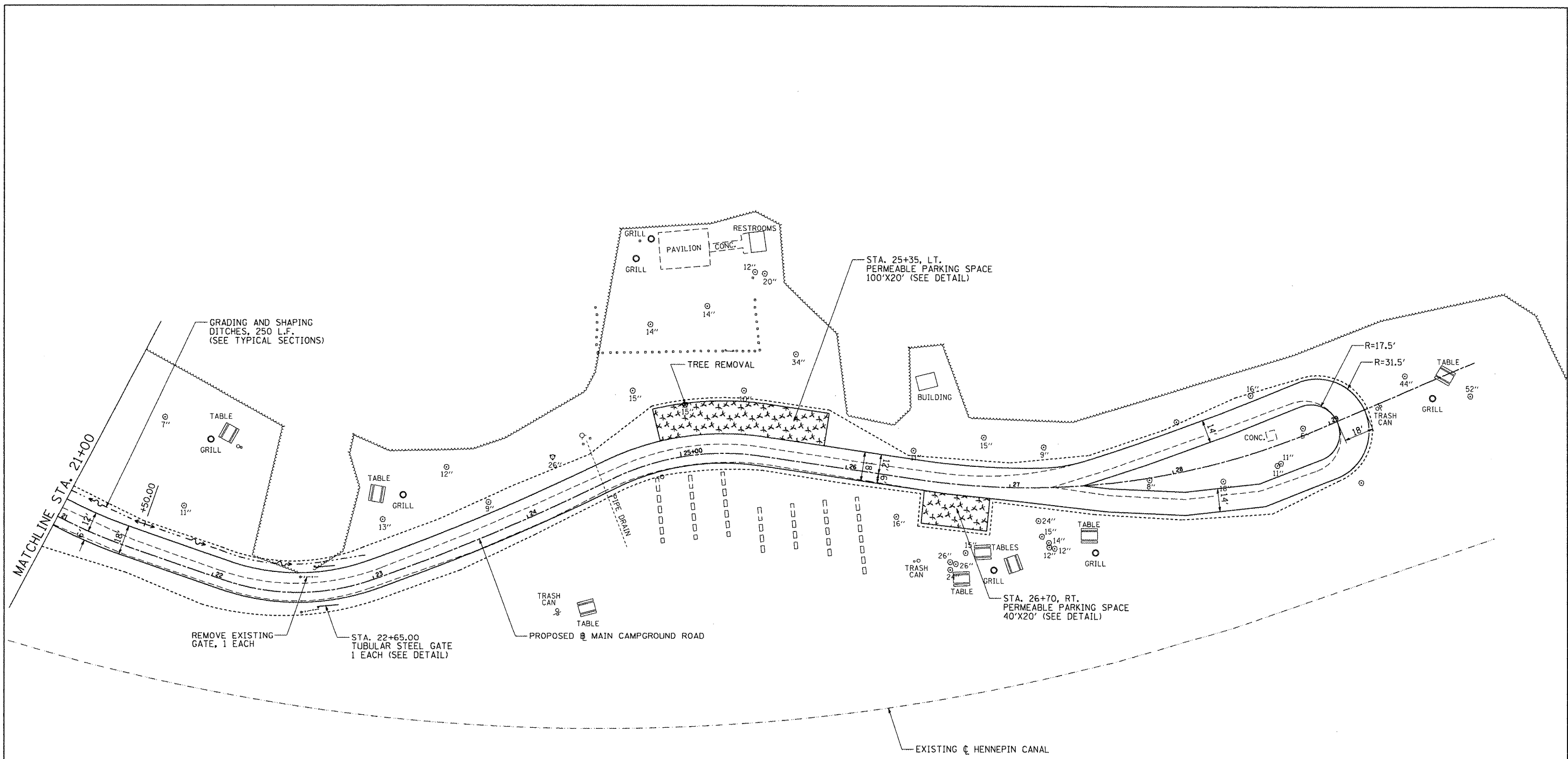
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	PLOT DATE = 3/29/2012	DATE - 3/30/12	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN  
IDNR HENNEPIN CANAL LOCK 21 PARK SITE**

SCALE: 1" = 30'    SHEET NO. 1 OF 4 SHEETS    STA.    TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PARK ROADS	BUREAU	28	12
			CONTRACT NO. 46211	
ILLINOIS FED. AID PROJECT				



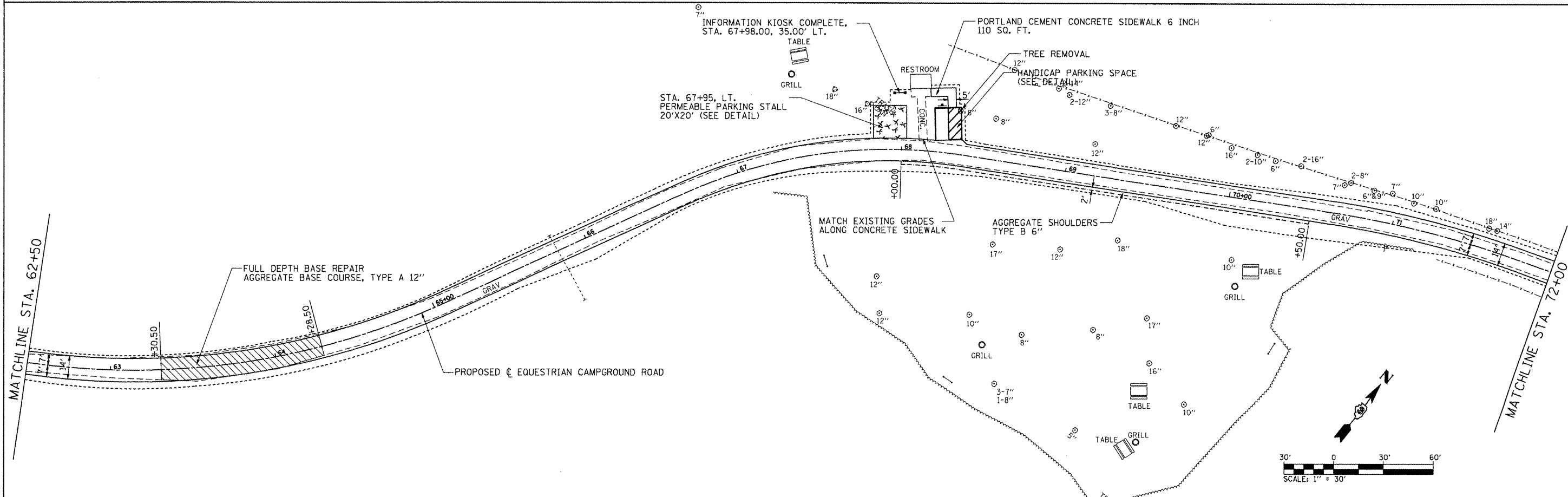
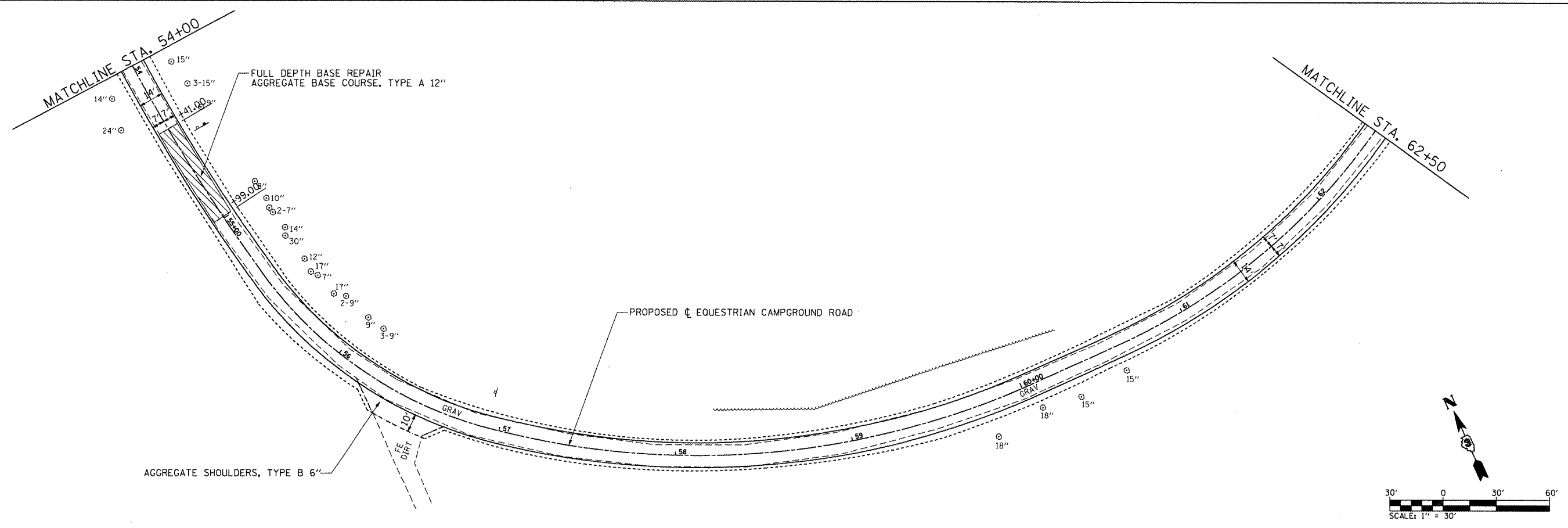
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	PLOT DATE = 3/29/2012	DATE - 3/30/12	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN SHEET  
IDNR HENNEPIN CANAL LOCK 21 PARK SITE**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PARK ROADS	BUREAU	28	13
			CONTRACT NO. 46211	
ILLINOIS FED. AID PROJECT				

SCALE: 1" = 30'    SHEET NO. 2 OF 4 SHEETS    STA.    TO STA.



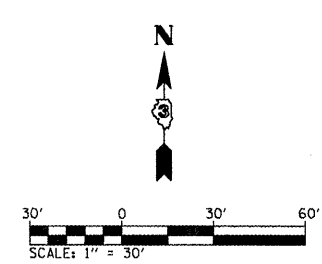
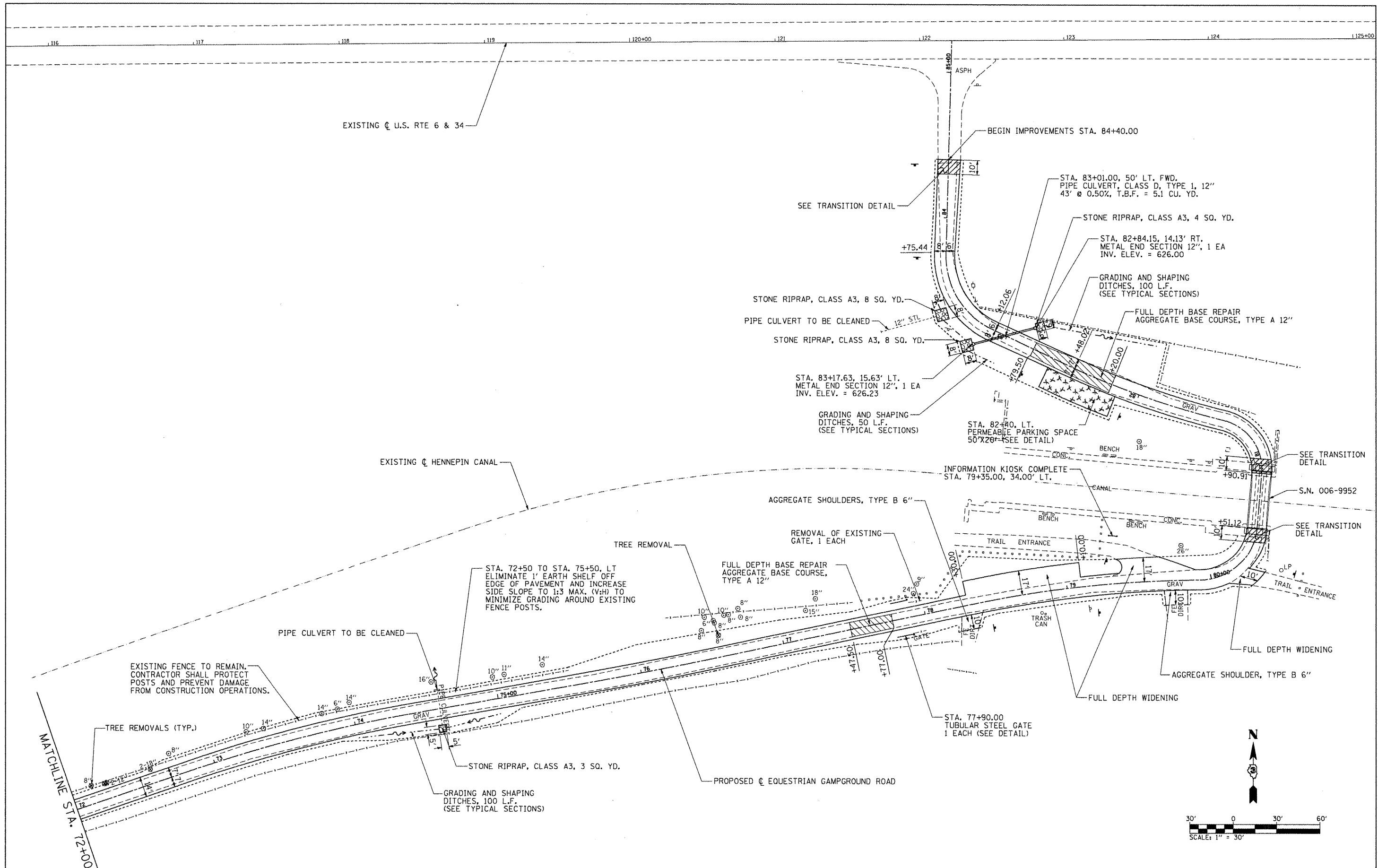
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PLOT DATE = 3/29/2012		DATE - 3/30/12	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN SHEET  
IDNR HENNEPIN CANAL LOCK 21 PARK SITE**

SCALE: 1" = 30'	SHEET NO. 3 OF 4 SHEETS	STA. TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PARK ROADS	BUREAU	28	14
			CONTRACT NO. 46211	
ILLINOIS FED. AID PROJECT				



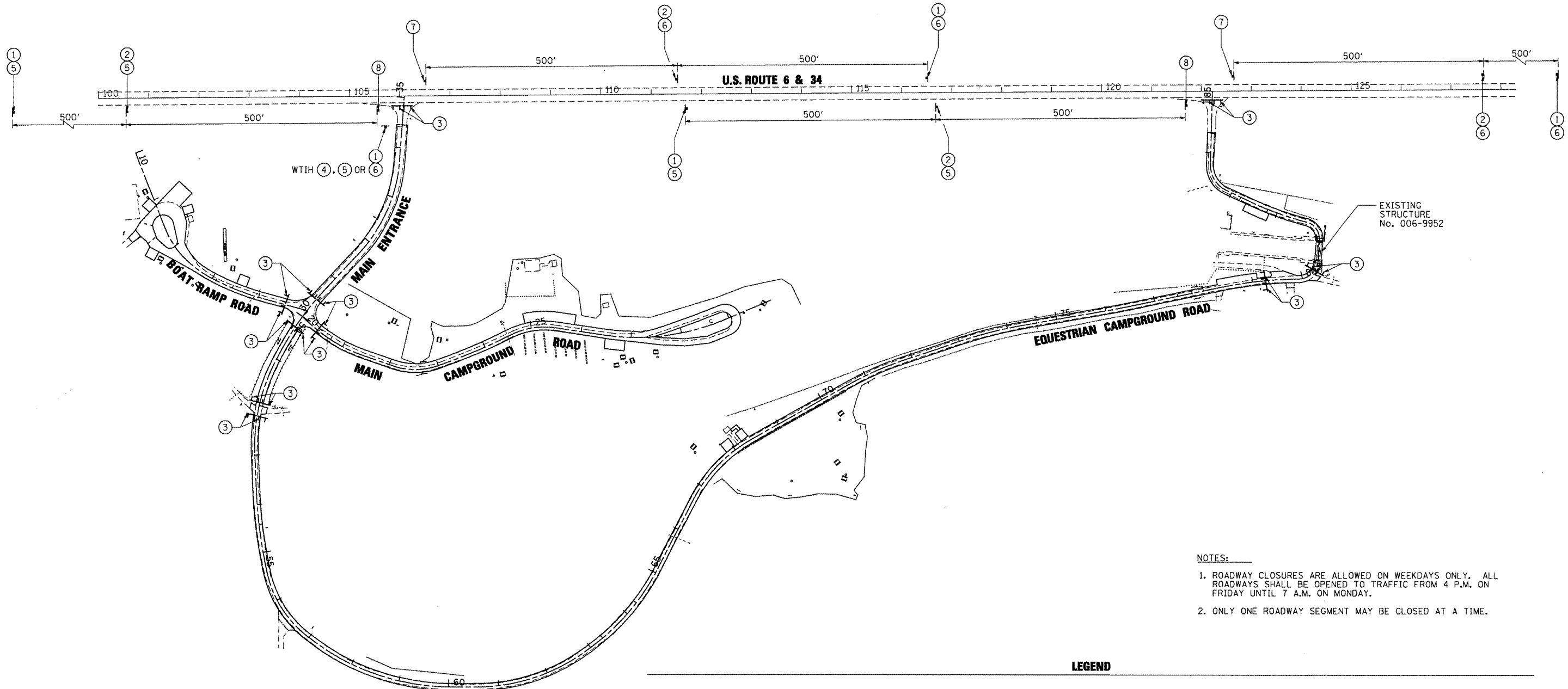
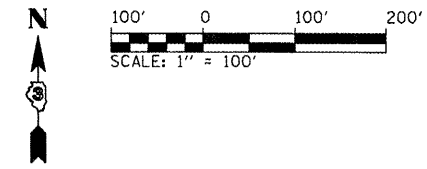
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		DATE - 3/30/12	REVISED -
PLOT SCALE = 60,0000' / IN.			
PLOT DATE = 3/29/2012			

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN SHEET  
IDNR HENNEPIN CANAL LOCK 21 PARK SITE**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PARK ROADS	BUREAU	28	15
			CONTRACT NO. 46211	
[ILLINOIS] FED. AID PROJECT				

SCALE: 1" = 30'    SHEET NO. 4 OF 4 SHEETS    STA.    TO STA.



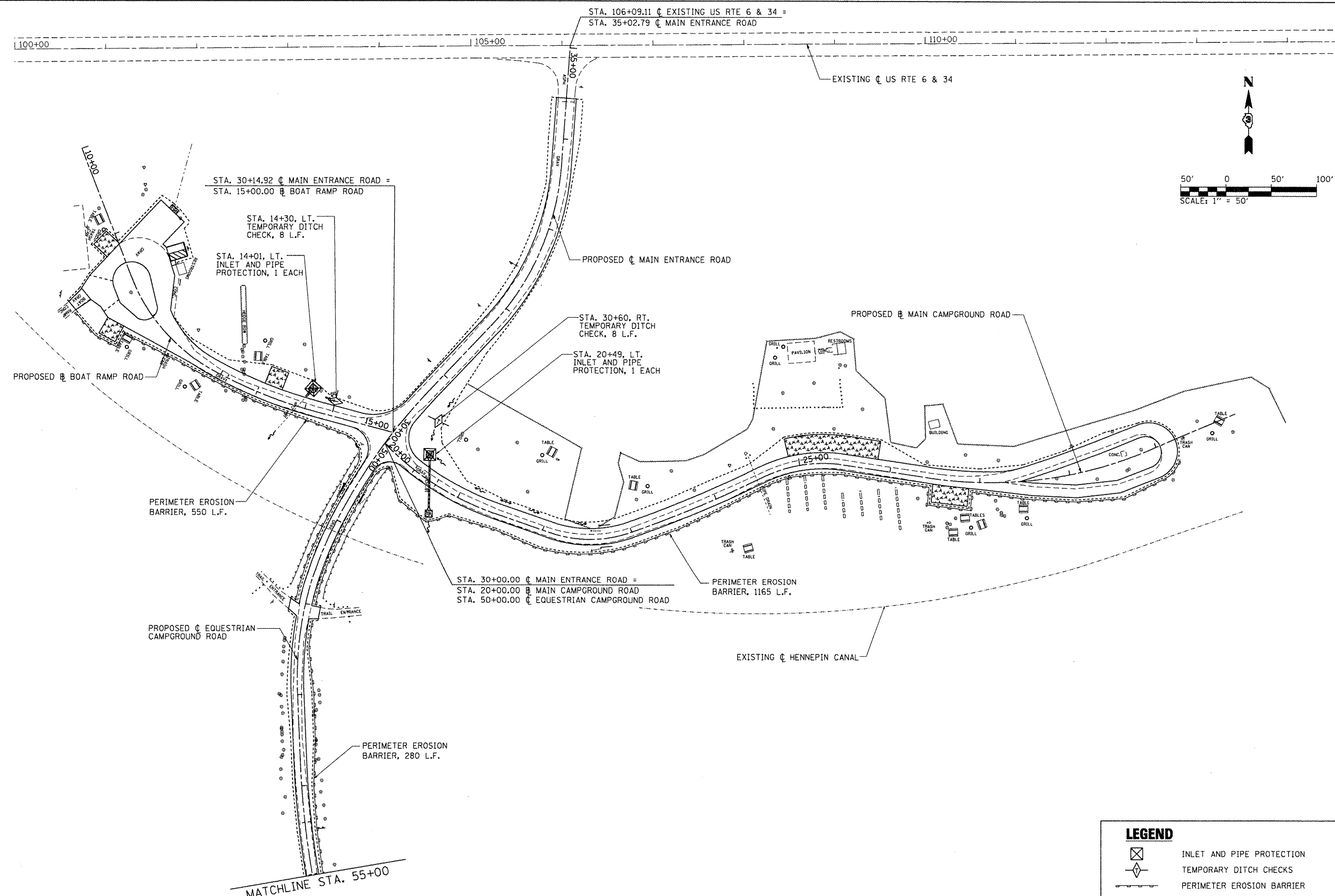
- NOTES:
1. ROADWAY CLOSURES ARE ALLOWED ON WEEKDAYS ONLY. ALL ROADWAYS SHALL BE OPENED TO TRAFFIC FROM 4 P.M. ON FRIDAY UNTIL 7 A.M. ON MONDAY.
  2. ONLY ONE ROADWAY SEGMENT MAY BE CLOSED AT A TIME.

**LEGEND**

 TYPE III BARRICADE STD. 701901-02	 ROAD CLOSED AHEAD W20-3(0) 48"x48" ①	 ROAD CLOSED 500 FEET W20-3 48"x48" ②	 ROAD CLOSED R11-2 48"x30" BARRICADE MOUNTED ③	 M6-3 21"x15" ④	 M5-1(R) 21"x15" ⑤	 M5-1(L) 21"x15" ⑥	 R3-2 24"x24" ⑦	 R3-1 24"x24" ⑧
--	---	---	---	--------------------------	-----------------------------	-----------------------------	--------------------------	--------------------------

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PLOT SCALE = 200.0000' / IN.	DRAWN - RAH	CHECKED - BJD	REVISED -			PARK ROADS	BUREAU	28	16	
PLOT DATE = 3/29/2012	DATE - 3/30/12	REVISED -	REVISED -			CONTRACT NO. 46211		ILLINOIS FED. AID PROJECT		
						SCALE: 1" = 100'	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	





**LEGEND**

	INLET AND PIPE PROTECTION
	TEMPORARY DITCH CHECKS
	PERIMETER EROSION BARRIER

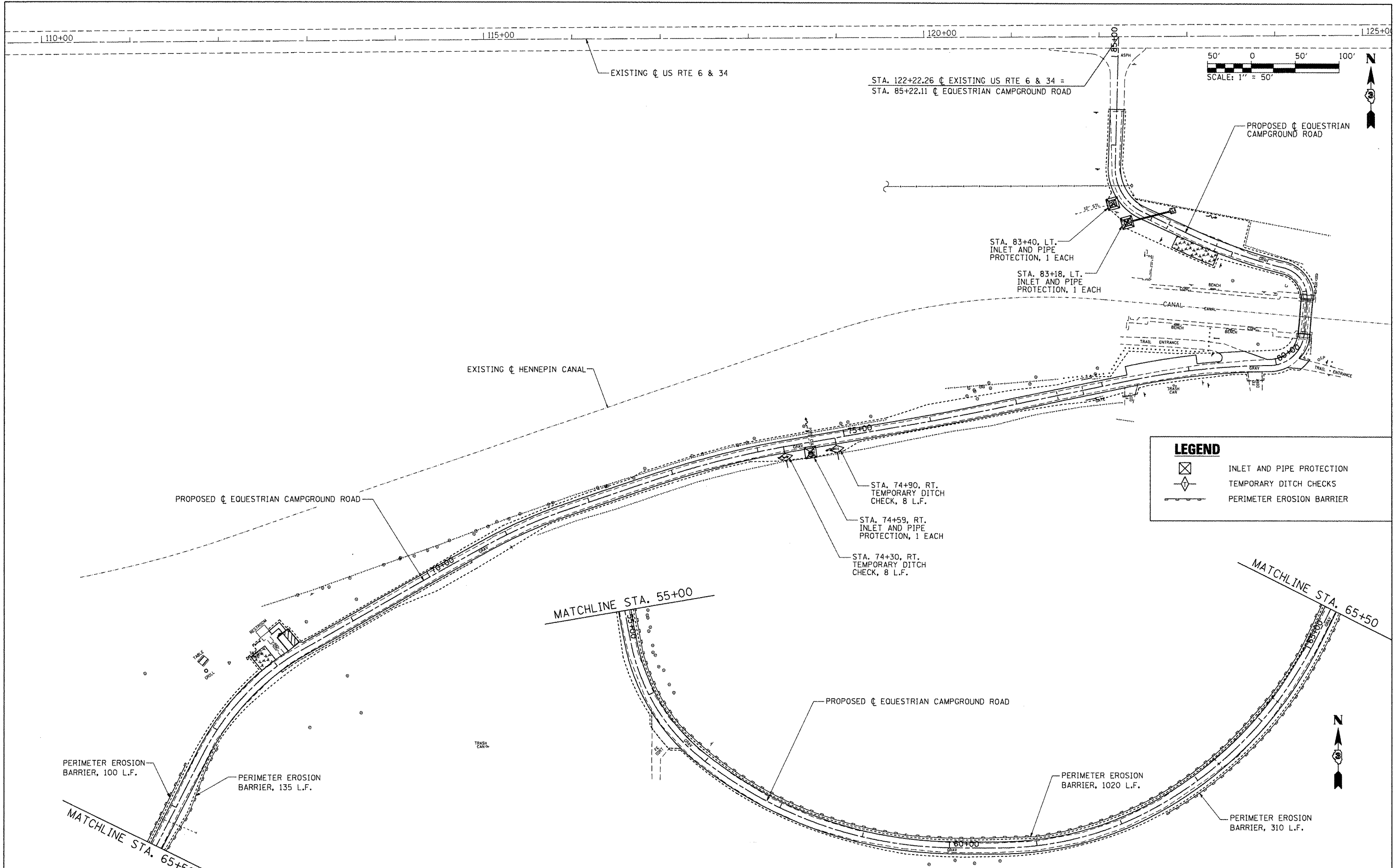
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		CHECKED - BJD	REVISED -
		DATE - 3/30/12	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN  
IDNR HENNEPIN CANAL LOCK 21 PARK SITE**

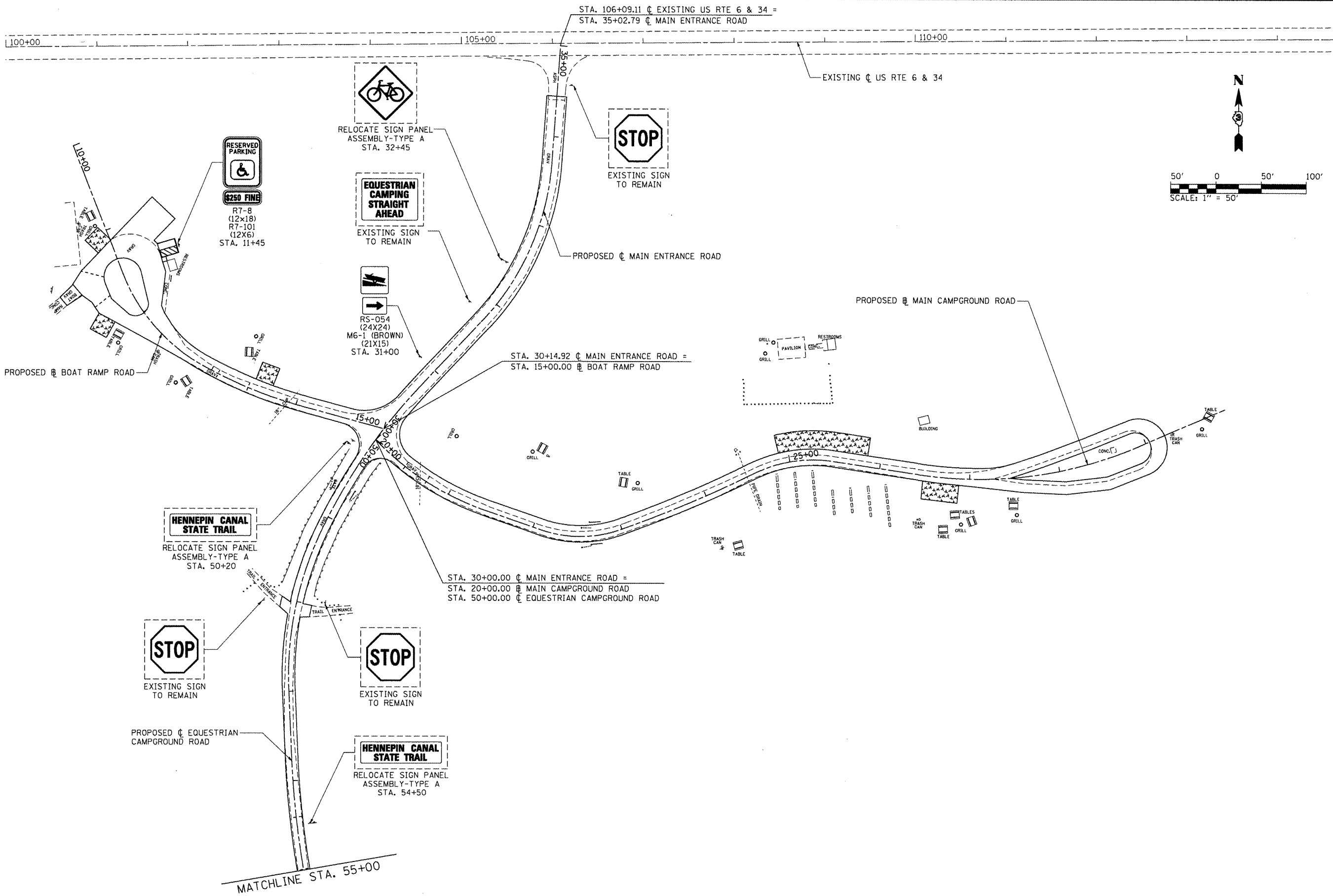
SCALE: 1" = 50'    SHEET NO. 1 OF 2 SHEETS    STA.    TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PARK ROADS		28	17
			CONTRACT NO. 46211	
ILLINOIS FED. AID PROJECT				



LEGEND	
	INLET AND PIPE PROTECTION
	TEMPORARY DITCH CHECKS
	PERIMETER EROSION BARRIER

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PLOT SCALE = 100.0000' / IN.	CHECKED - BJD	REVISIED -	PARK ROADS			BUREAU	28	18		
PLOT DATE = 3/29/2012	DATE - 3/30/12	REVISIED -	CONTRACT NO. 46211							
						SCALE: 1" = 50'	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT



FILE NAME =	USER NAME = OpenH&B Springfield	DESIGNED - MJO	REVISED -
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		CHECKED - BJD	REVISED -
		DATE - 3/30/12	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
IDNR HENNEPIN CANAL LOCK 21 PARK SITE**

SCALE: 1" = 50'    SHEET NO. 1 OF 2 SHEETS    STA.    TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PARK ROADS	BUREAU	28	19
			CONTRACT NO. 46211	
ILLINOIS FED. AID PROJECT				

**SIGN DETAIL**  
N.T.S.

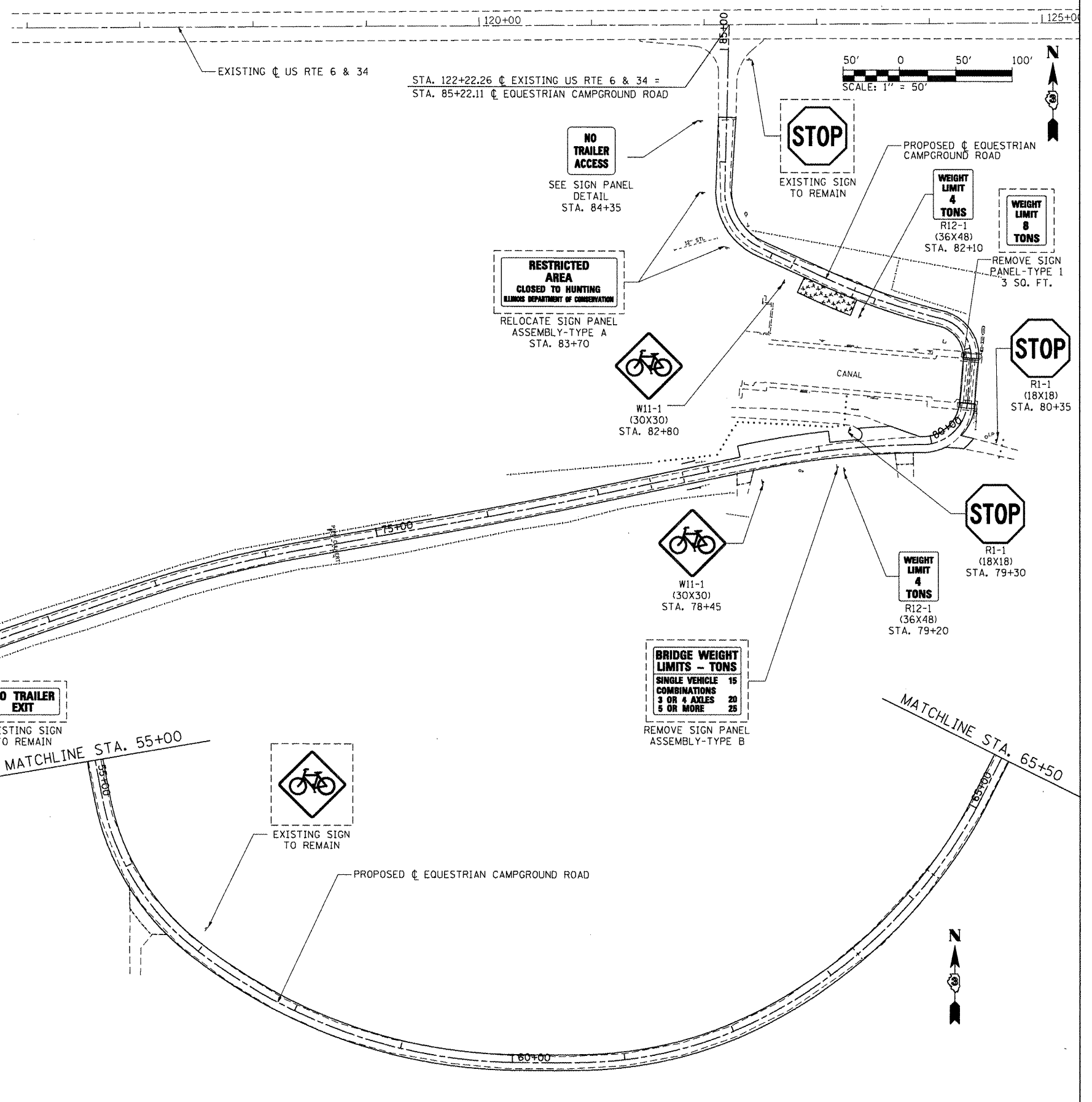
**NO TRAILER ACCESS**

SIGN NUMBER	name
WIDTH x HIGHT	2'-0" x 2'-0"
BORDER WIDTH	0.625"
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/Black

BORDER  
R=1.5"  
TH=0.625"  
IN=0.375"

Panel Style: IDNR-1asi  
Dimensions are in inches tenths  
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)		LENGTH	SERIES/SIZE
N	O		C 2000
8.9	11.8	5.4	4
T	R		C 2000
3.3	5.9	17.3	4
A	C		C 2000
3.7	6.8	16.5	4



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		DATE - 3/30/12	REVISED -

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

**SIGNING PLAN**  
**IDNR HENNEPIN CANAL LOCK 21 PARK SITE**

SCALE: 1" = 50'    SHEET NO. 2 OF 2 SHEETS    STA. TO STA.

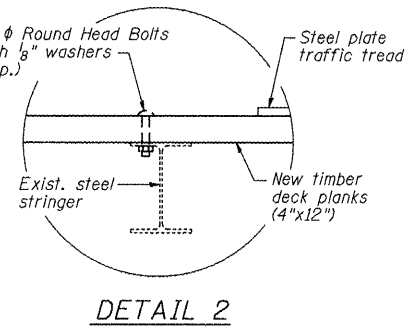
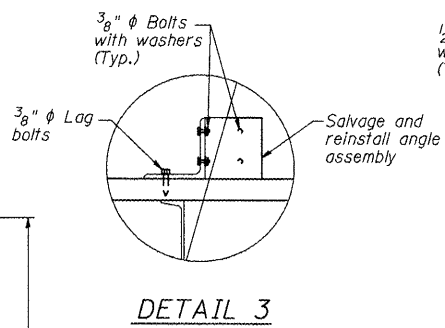
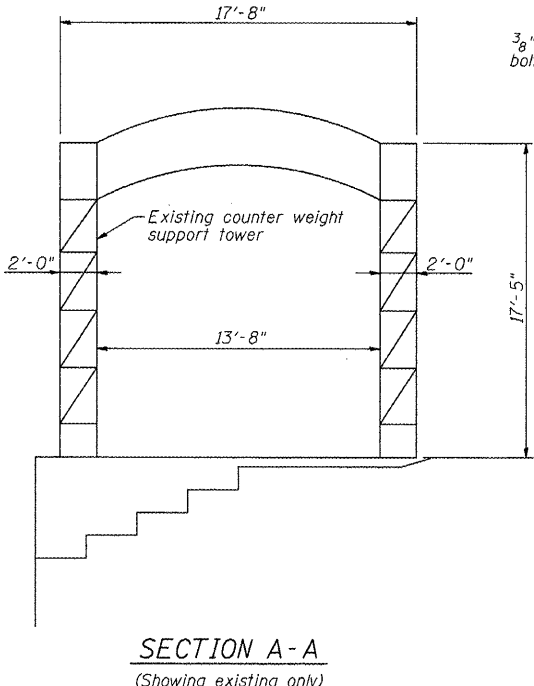
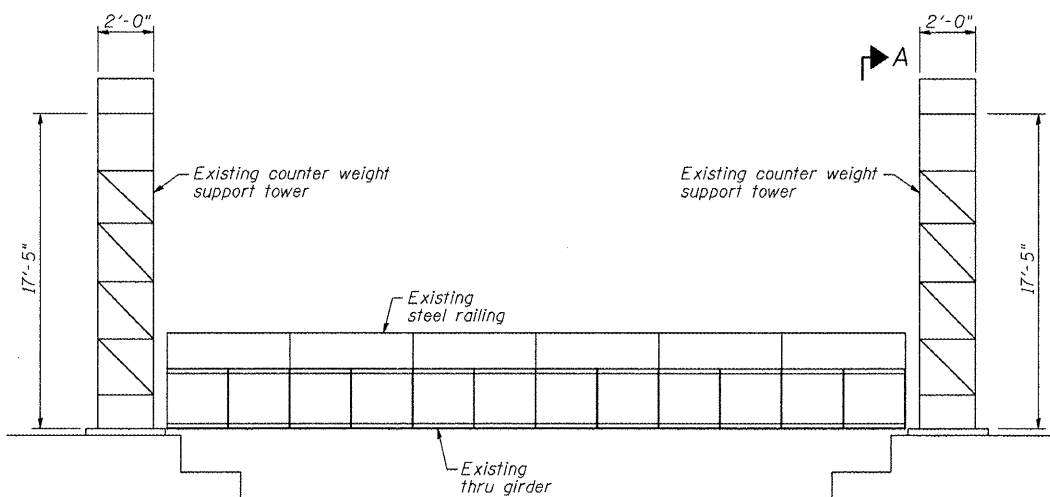
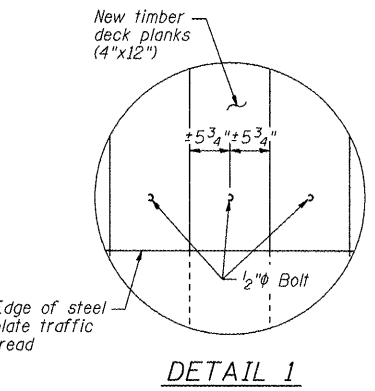
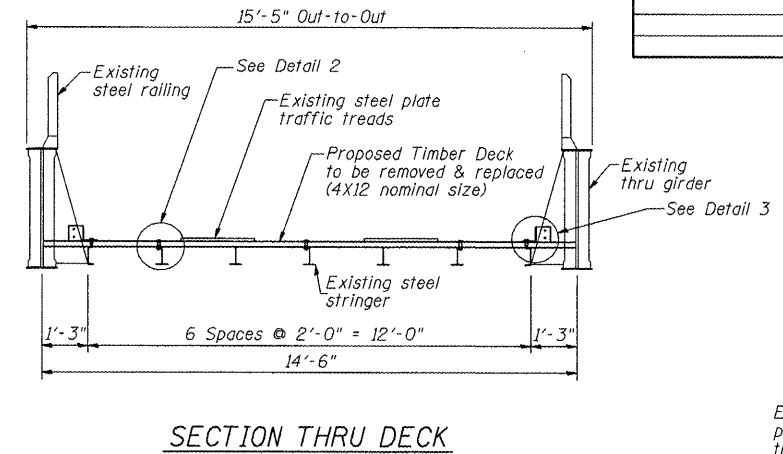
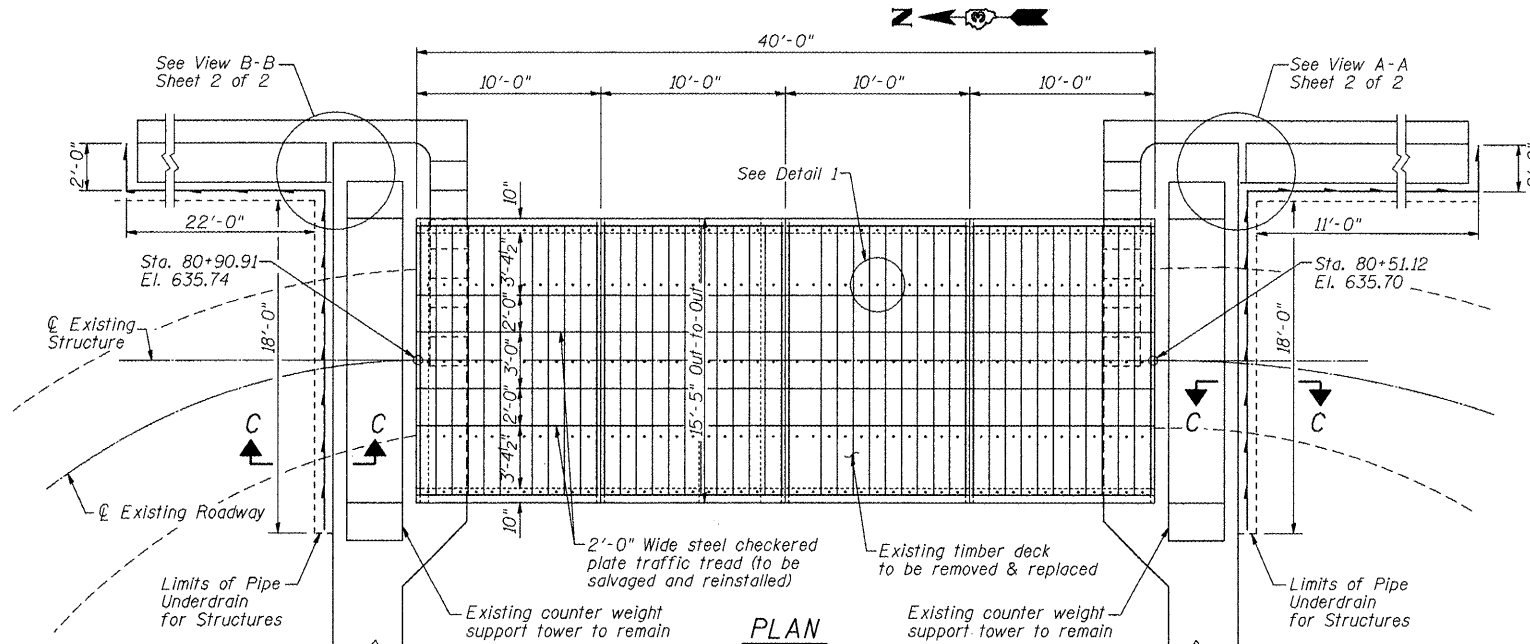
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	PARK ROADS	BUREAU	28	20
		CONTRACT NO. 46211		
		ILLINOIS FED. AID PROJECT		

**Existing Structure:** Steel thru girder lift bridge. A timber deck 40'-0" long spanning the Hennepin Canal. The structure carries pedestrian and vehicular traffic and is posted for an 8 ton weight limit for SB traffic and 15 ton limit for NB traffic.

**Proposed Rehabilitation:** The existing Steel Traffic Treads will be removed and salvaged. The existing Timber Deck will be removed and replaced, and the Steel Traffic Treads reinstalled. The open joints between the existing masonry walls and the abutments shall be cleaned of debris and filled with an epoxy grout. The structure will be posted for a 4 ton weight limit, with the existing limit signs removed.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Treated Timber	F.B.M.	2440		2440
Hardware	Pound	70		70
Remove & Reinstall Steel Traffic Treads	L. Sum	1		1
Non-Shrink Grout	Cu. Ft.		16.3	16.3
Removal of Existing Timber Members	L. Sum	1		1
Pipe Underdrains for Structures	Ft.		73	73

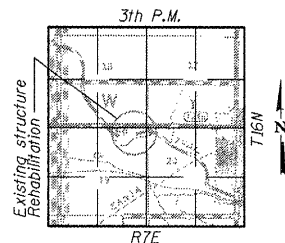


**DESIGN SPECIFICATIONS**

2010 AASHTO LRFD Bridge Design Specifications with 2010 Interim Revisions

**NOTE:**

- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of material. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the actual furnished at the unit price bid for the work.
- Use of creosote preservatives will not be acceptable for preservation treatments for the proposed Treated Timber deck.



**GENERAL PLAN & ELEVATION**  
**EQUESTRIAN CAMPGROUND RD. OVER**  
**HENNEPIN CANAL LOCK 21**  
**PARK ROADS**  
**BUREAU COUNTY**  
**STATION 80+70.35**  
**STRUCTURE NO. 006-9952**

FILE NAME =	USER NAME =	DESIGNED - BPD	REVISED -
		CHECKED - WLB	REVISED -
PLLOT SCALE =		DRAWN - BPD	REVISED -
PLLOT DATE =		CHECKED - BPD	REVISED -

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

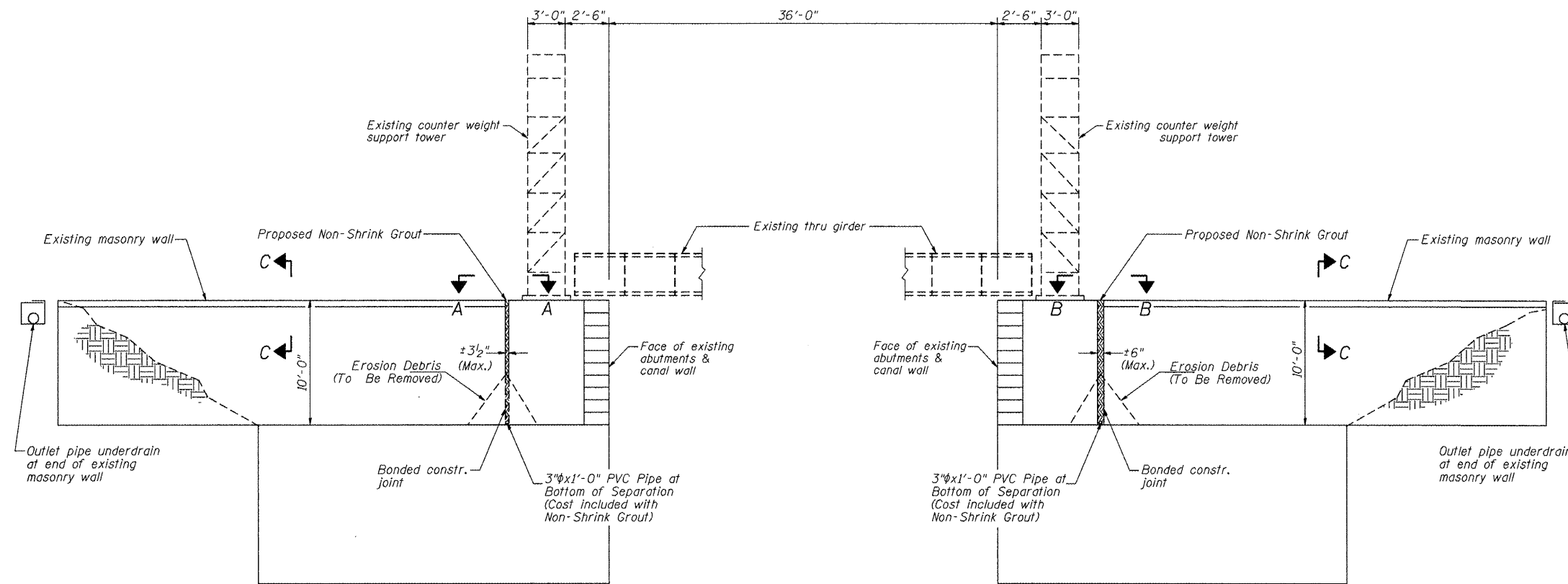
SHEET NO. 1 OF 2 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PARK ROADS	BUREAU	28	21
			CONTRACT NO. 46211	
[ILLINOIS] FED. AID PROJECT				

**SEQUENCE OF CONSTRUCTION:  
(Joint Repair)**

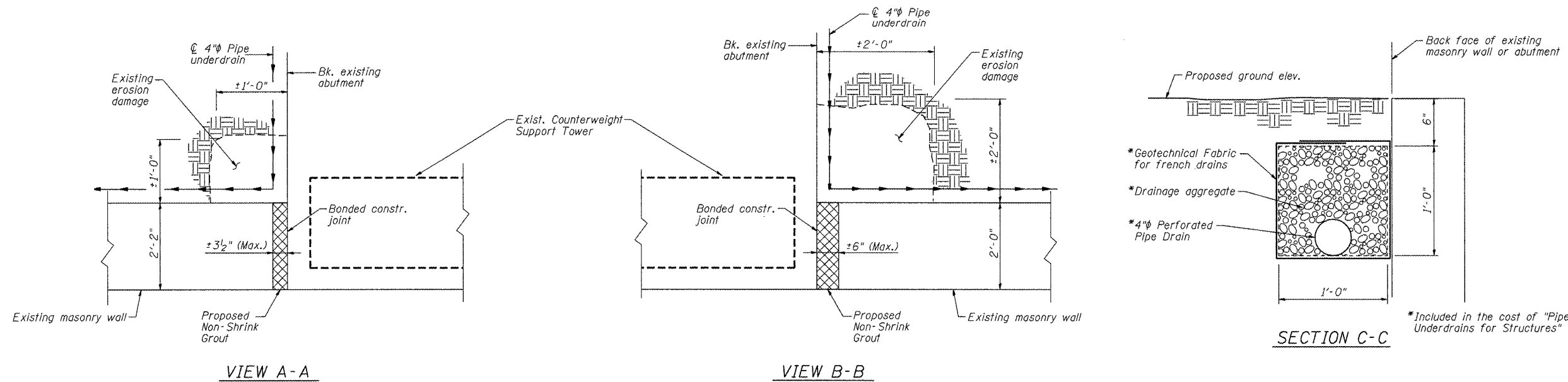
1. Clean Debris out of separation between Masonry walls & back of Abutments, from front face of walls.
2. Place 3"φx1'-0" PVC Pipe\* at bottom of separation. Apply Bonding Agent to both faces of separation.
3. Fill opening with Non-Shrink grout.
4. Install Pipe Underdrains for Structures.
5. Finish surface to match adjacent landscaping.

\*Included in the cost of "Non-Shrink Grout"



**SOUTH ABUTMENT**  
(Looking West)

**NORTH ABUTMENT**  
(Looking West)



**VIEW A-A**

**VIEW B-B**

**SECTION C-C**

\*Included in the cost of "Pipe Underdrains for Structures"

Material excavated for placement of Pipe Underdrains shall be used to backfill Existing Erosion Damage and is included in the cost of "Pipe Underdrains for Structures"

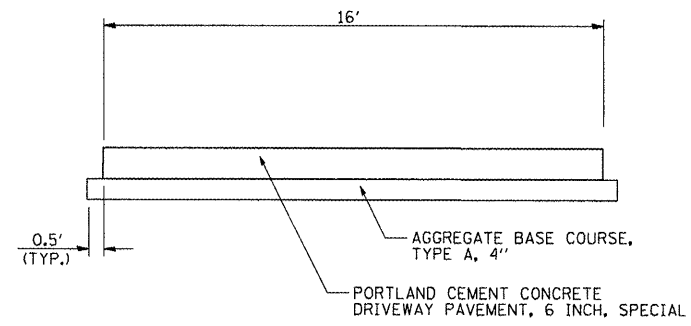
FILE NAME =	USER NAME =	DESIGNED - BPD	REVISED -
		CHECKED - WLB	REVISED -
		DRAWN - BPD	REVISED -
		CHECKED - BPD	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ABUTMENT DETAILS  
STRUCTURE NO. 006-9952**

SHEET NO. 2 OF 2 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PARK ROADS	BUREAU	28	22
			CONTRACT NO. 46211	
ILLINOIS FED. AID PROJECT				



**HANDICAP PARKING TYPICAL SECTION**

**BILL OF MATERIAL (EACH LOCATION)**

AGGREGATE BASE COURSE, TYPE A, 4" - 40 SQ. YD.  
 PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT,  
 6 INCH, SPECIAL - 36 SQ. YD.  
 PAINT PAVEMENT MARKING - LINE 4" - 120 FOOT

**PARKING STALL CONTROL POINTS**

**BOAT RAMP:**

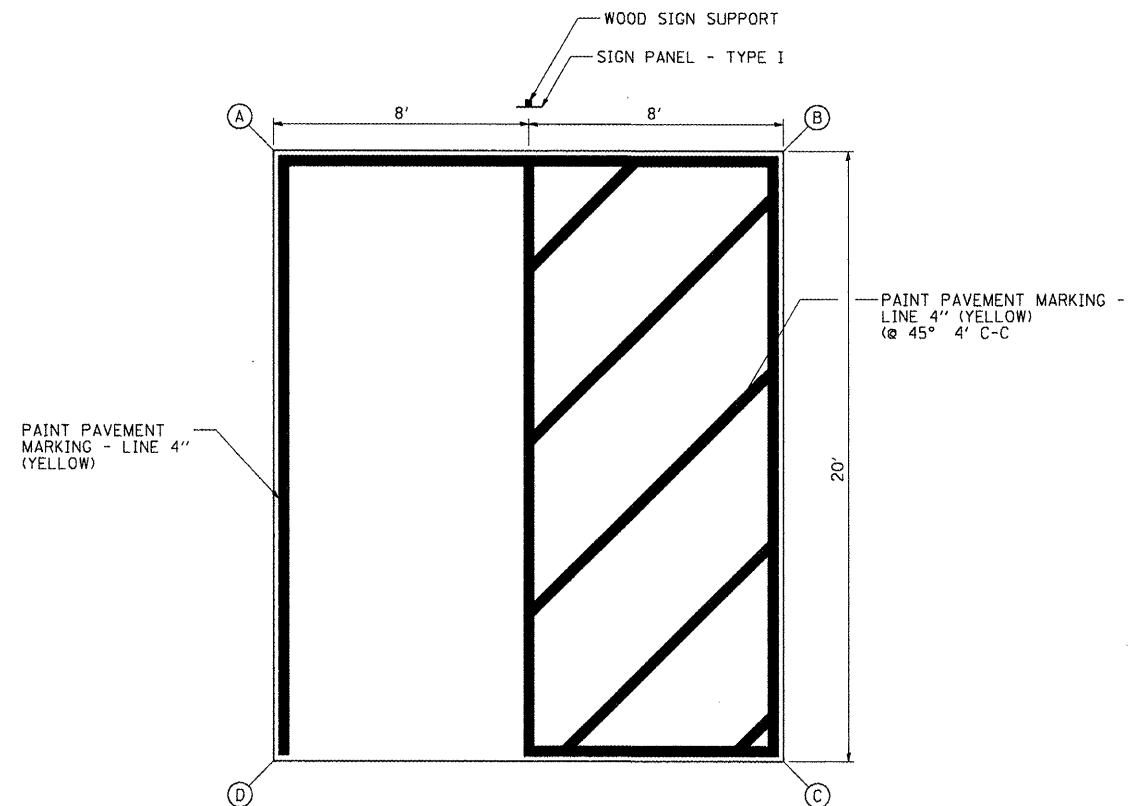
- (A) STA. 11+36.18, 67.10' LT.  
ELEV. = 638.24
- (B) STA. 11+52.14, 65.77' LT.  
ELEV. = 638.44
- (C) STA. 11+50.46, 45.84' LT.  
ELEV. = 638.20
- (D) STA. 11+34.52, 47.17' LT.  
ELEV. = 638.00

**EQUESTRIAN:**

- (A) STA. 68+17.177 26.88' LT.  
ELEV. = 639.66
- (B) STA. 68+32.24, 29.00' LT.  
ELEV. = 639.44
- (C) STA. 68+35.28, 9.26' LT.  
ELEV. = 639.66
- (D) STA. 68+19.88, 7.00' LT.  
ELEV. = 639.82

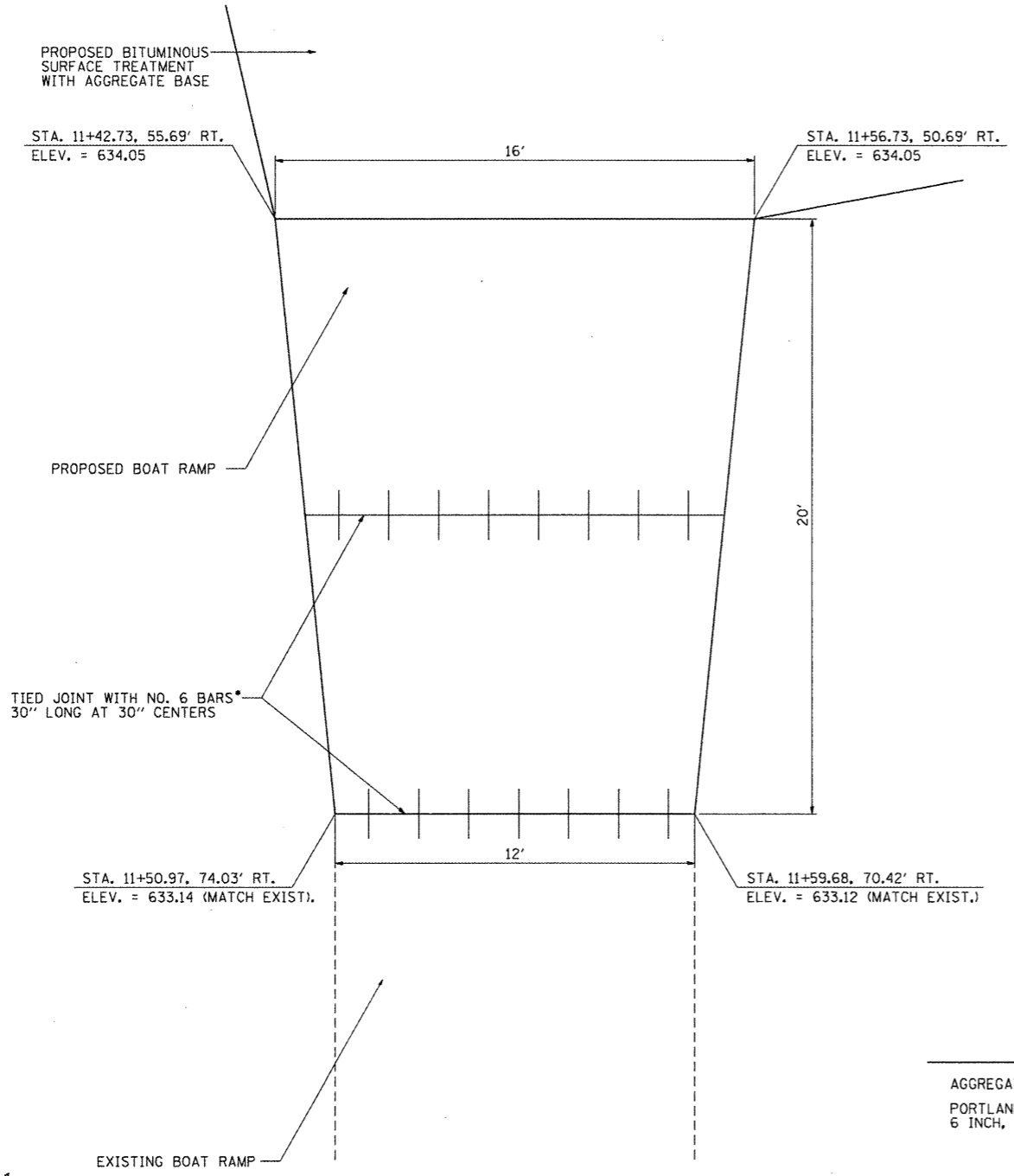
**NOTE:**

PARKING STALL SURFACE SLOPES  
 SHALL NOT EXCEED 1:50 (2%) IN  
 ALL DIRECTIONS.

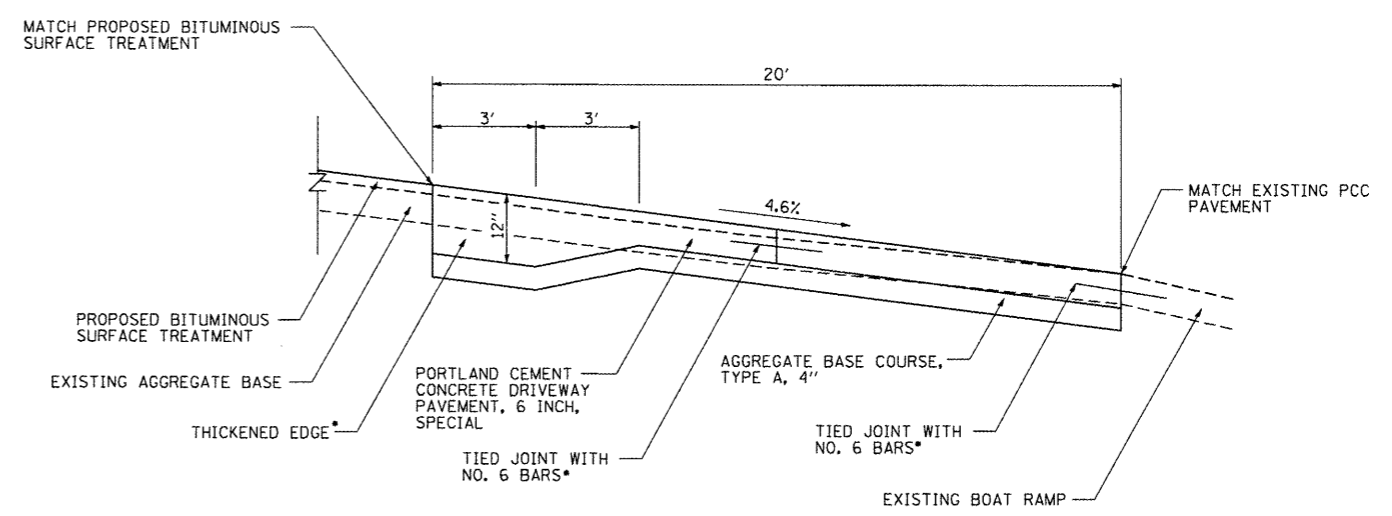


**HANDICAP PARKING STRIPING**

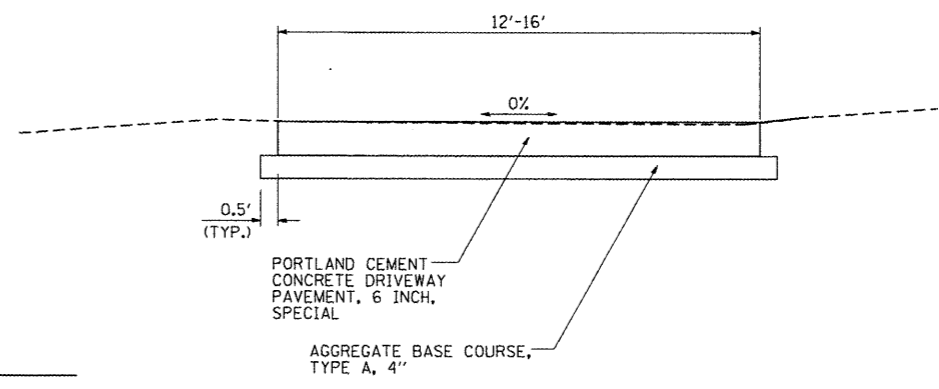
FILE NAME =	USER NAME = OpenH&B Springfield	DESIGNED - MJO	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>HANDICAP PARKING STALL DETAIL IDNR HENNEPIN CANAL LOCK 21 PARK SITE</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
L:\DOT\1186610\WD_4\Draw\CAADD_Sheets\046211-shc-details.001.dgn	DRAWN - RAH	CHECKED - BJD	REVISED -			PARK ROADS	BUREAU	28	23	
PLOT SCALE = 6.0000' / IN.	DATE - 3/30/12	REVISED -	CONTRACT NO. 46211			ILLINOIS FED. AID PROJECT				
PLOT DATE = 3/29/2012	SCALE: N.T.S.	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.							



**PLAN VIEW**



**PROFILE VIEW**



**CROSS SECTION VIEW**

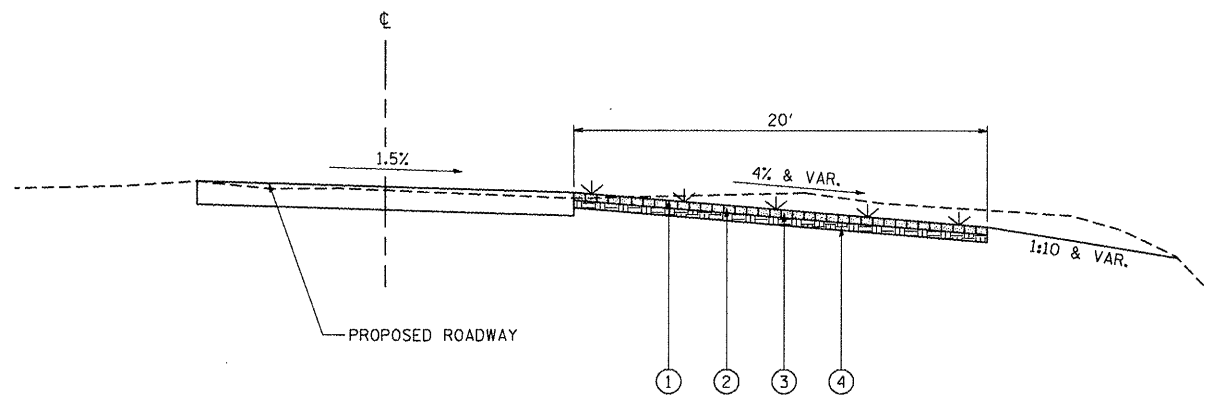
**BILL OF MATERIAL**

AGGREGATE BASE COURSE, TYPE A, 4" - 34 SQ. YD.  
 PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH, SPECIAL - 32 SQ. YD.

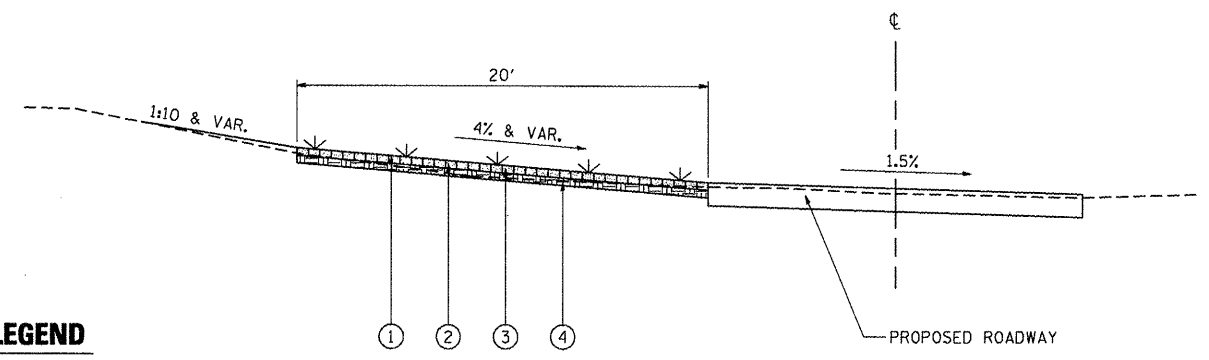
**\*NOTE:**  
 COST OF TIE BARS AND THICKENED EDGE IS INCLUDED IN THE COST FOR P.C.C. DRIVEWAY PAVEMENT, 6 INCH, SPECIAL.

FILE NAME = L:\1007\1106610\MO_4\Draw\CADD_Sheets\046211-shr-detaila.dgn	USER NAME = OpenH8B Springfield	DESIGNED - MJO	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BOAT RAMP DETAIL IDNR HENNEPIN CANAL LOCK 21 PARK SITE</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 8,0000' / IN.	CHECKED - BJD	REVISIED -	REVISIED -		SCALE: N.T.S.	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	PARK ROADS	BUREAU	28	24
PLOT DATE = 3/29/2012	DATE - 3/30/12	REVISIED -	REVISIED -		CONTRACT NO. 46211							
ILLINOIS FED. AID PROJECT												





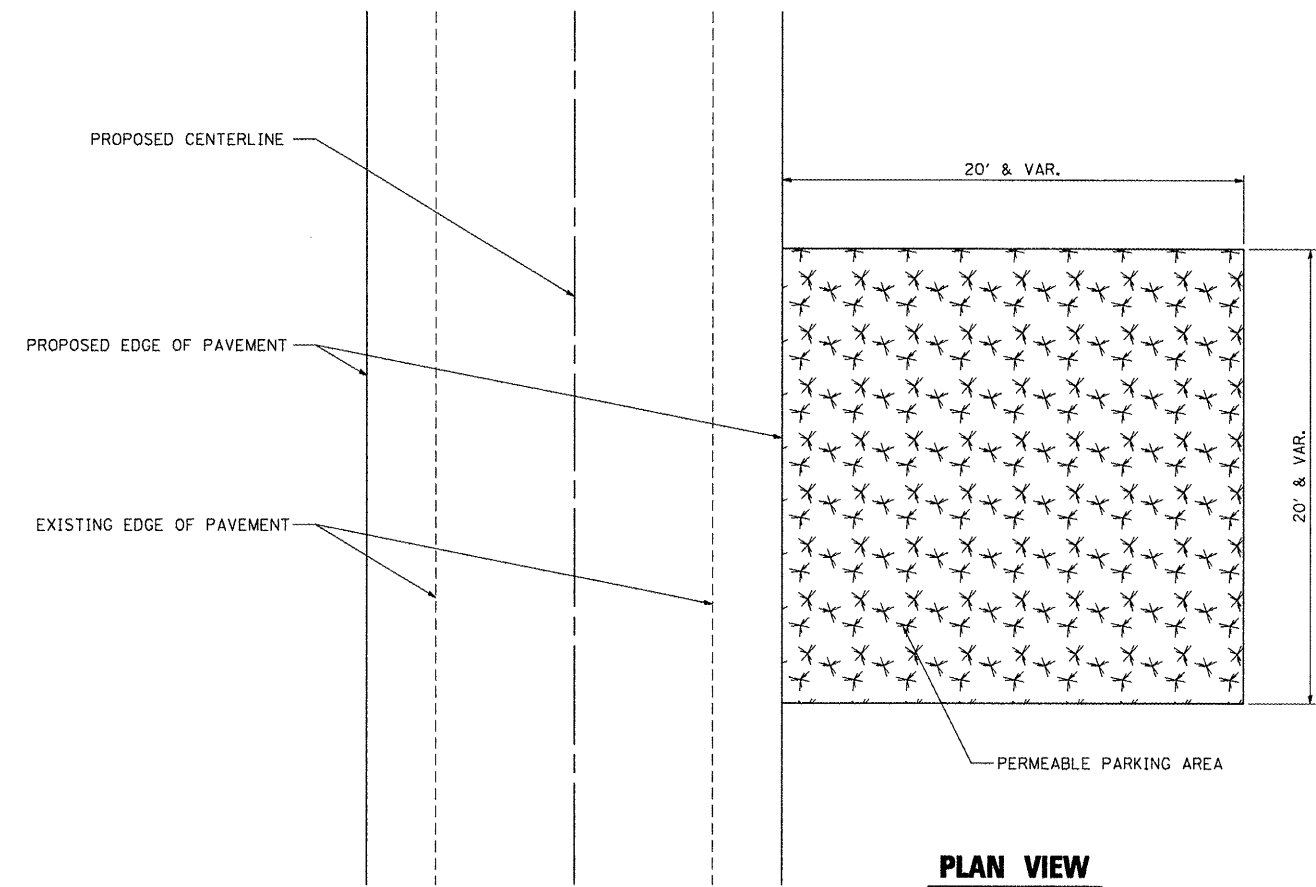
**TYPICAL #1**



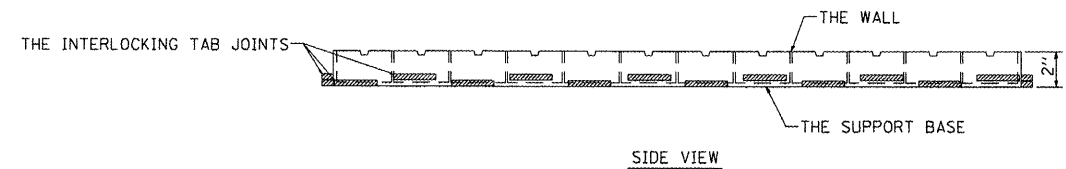
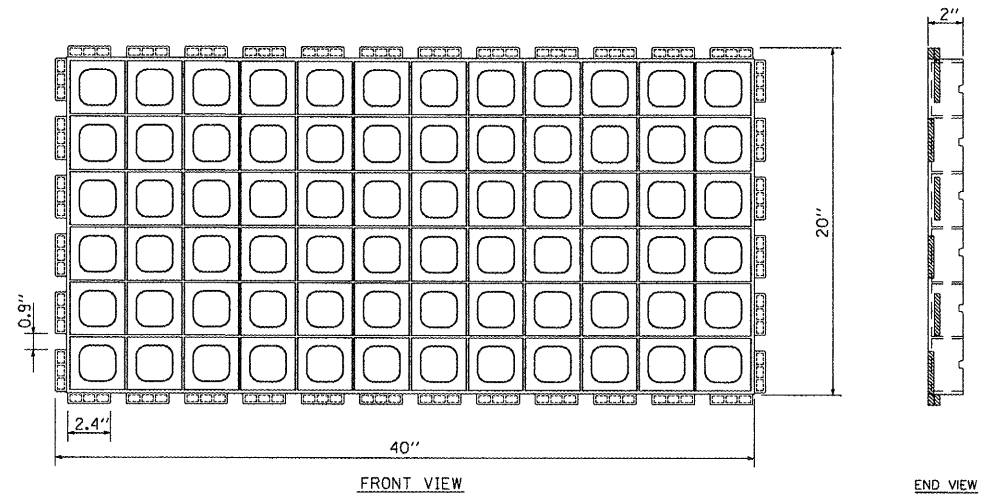
**TYPICAL #2**

**PROPOSED LEGEND**

- ① SEEDING, CLASS 1
- ② GEOTECHNICAL REINFORCEMENT
- ③ TOPSOIL EXCAVATION AND PLACEMENT (2')
- ④ PREPARED SUBGRADE



**PLAN VIEW**



**SIDE VIEW**

**GEOTECHNICAL REINFORCEMENT DETAILS**

FILE NAME =	USER NAME = OpenH&B Springfield	DESIGNED - MJO	REVISED -
L:\D001\106610\W0_4\Draw\CADD_Sheets\046211-shtr\details_001.dgn		DRAWN - RAH	REVISED -
		CHECKED - BJD	REVISED -
		DATE - 3/30/12	REVISED -
PLOT SCALE = 8,0000' / IN.			
PLOT DATE = 3/29/2012			

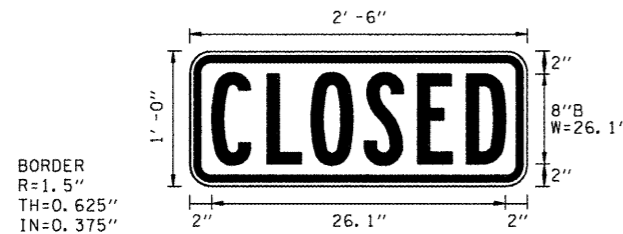
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PERMEABLE PARKING DETAIL  
IDNR HENNEPIN CANAL LOCK 21 PARK SITE**

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PARK ROADS	BUREAU	28	25
		CONTRACT NO.	46211	
ILLINOIS FED. AID PROJECT				

SIGN DETAIL  
N.T.S.



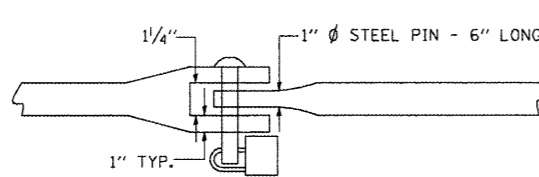
Panel Style: IDNR-2.sst  
Dimensions are in Inches tenths

Letter locations are panel edge to lower left corner

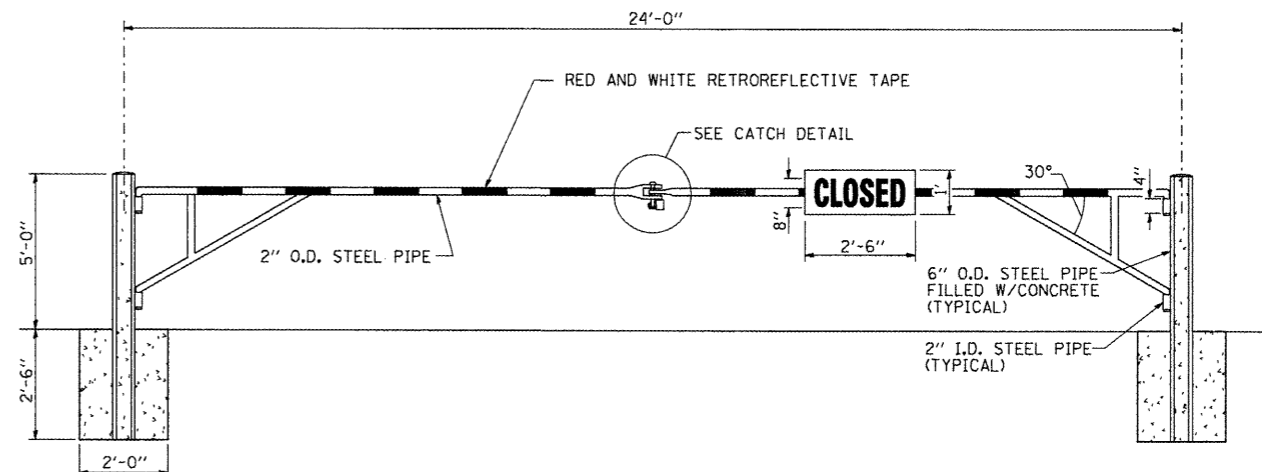
SIGN NUMBER	name
WIDTH x HIGHT.	2'-6" x 1'-0"
BORDER WIDTH	0.625"
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective COLOR: White
LEGEND/BORDER	TYPE: Reflective COLOR: Black/Black

SYMBOL	ROT	X	Y	WD	HT

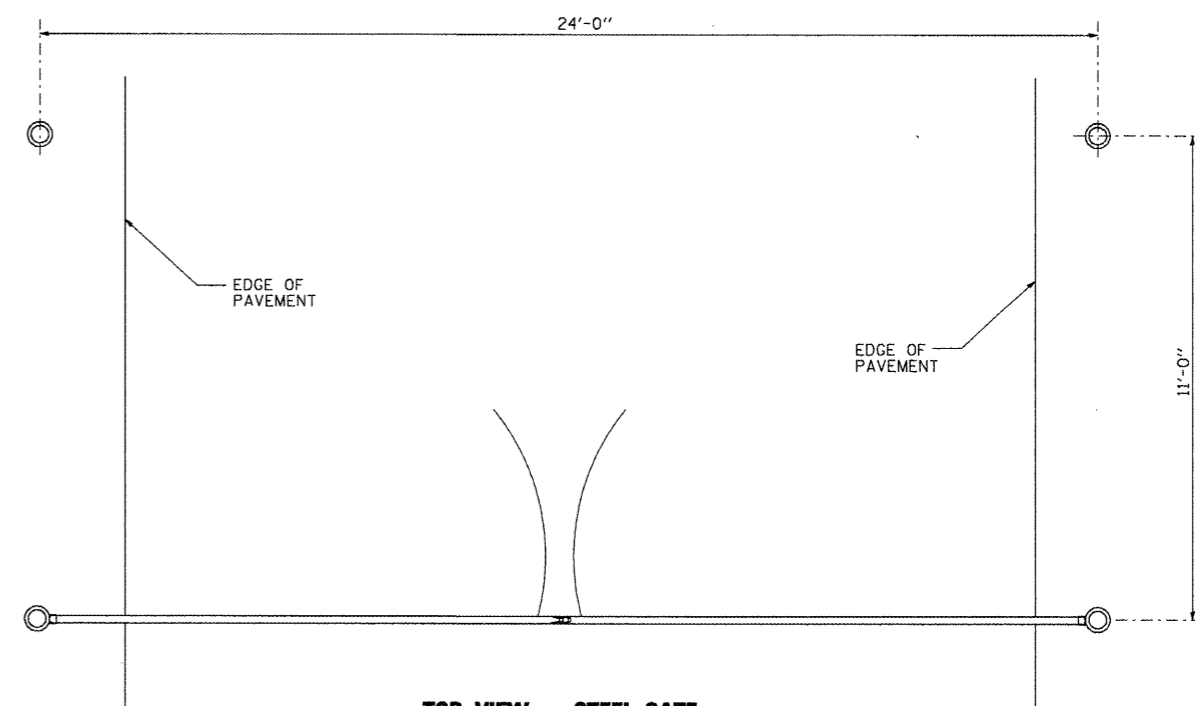
LETTER POSITIONS (X)								LENGTH	SERIES SIZE
C	L	O	S	E	D				
2	6.9	10.8	15.6	20.3	24.6			26.1	B 2000 8



CATCH DETAIL  
NO SCALE



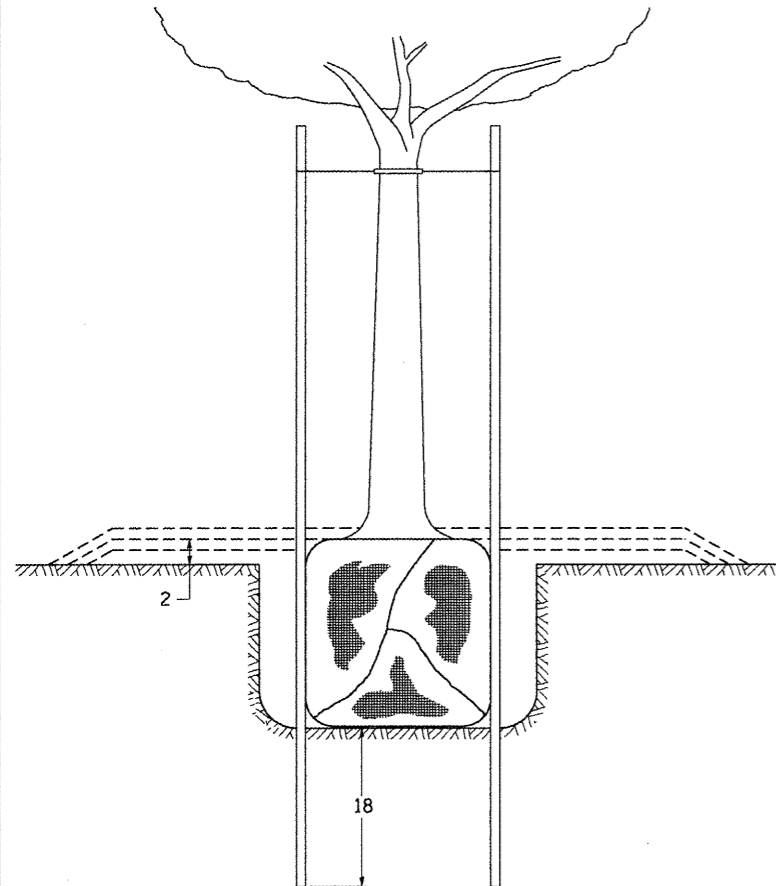
FRONT VIEW - STEEL GATE



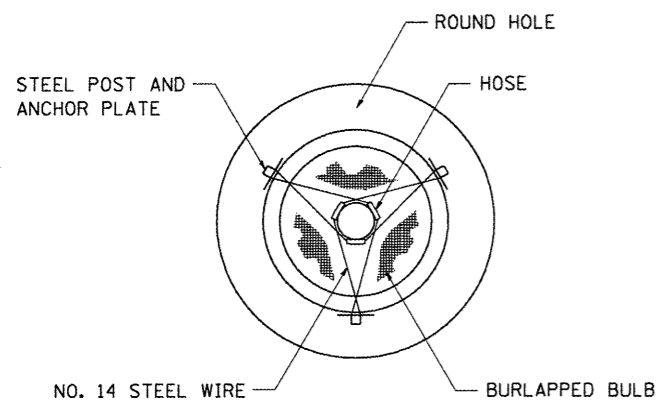
TOP VIEW - STEEL GATE

METAL GATE  
NO SCALE

# DETAILS OF PLANTING AND BRACING TREES

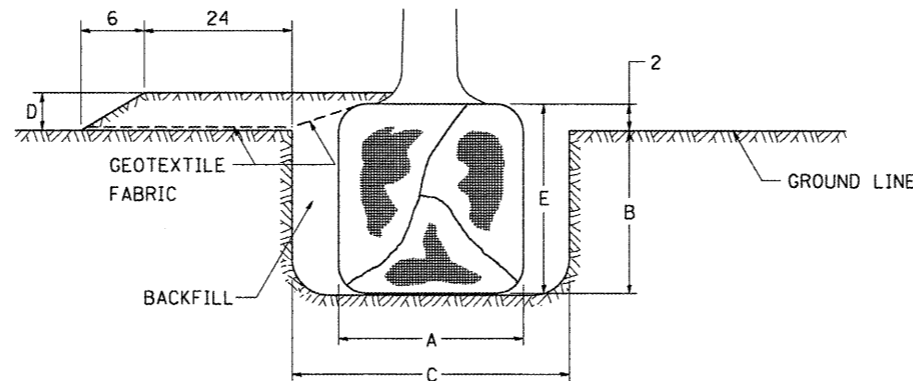


**TREES SMALLER THAN 4 1/2 IN DIAMETER**

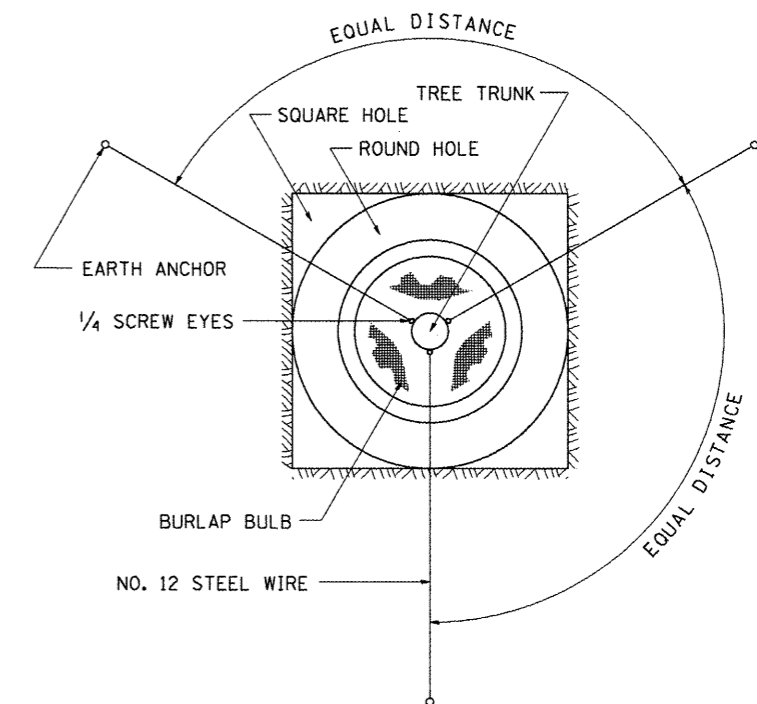
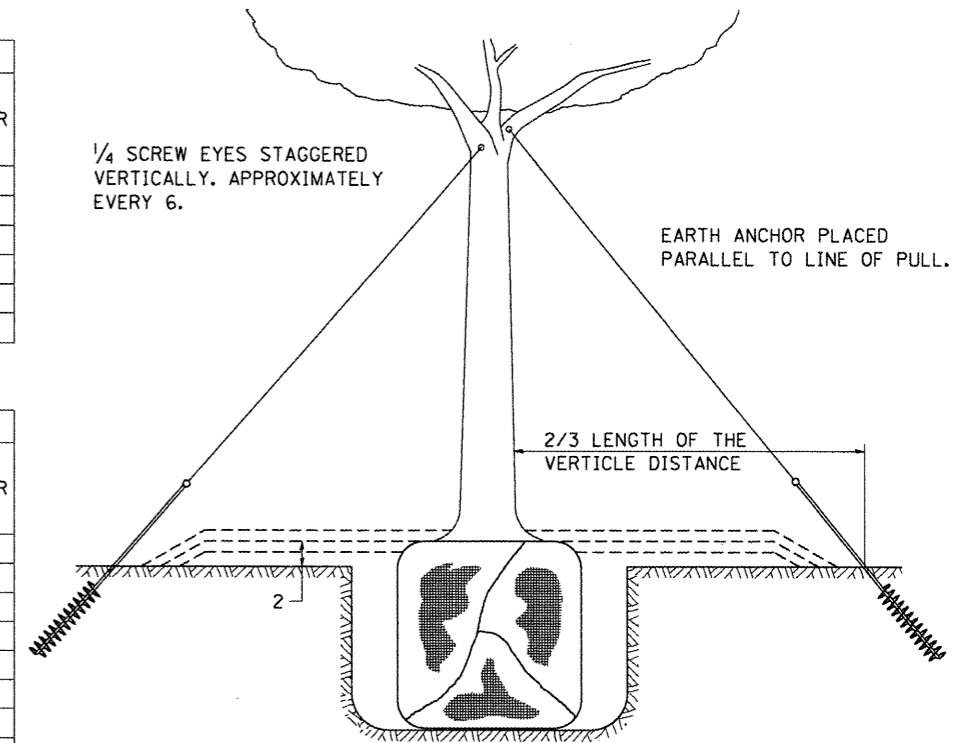


SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER CU. YDS.
5'-6'	16	10	30	4	12	0.54
5'-6' BB	16	10	30	4	12	0.54
6'-7' BB	18	12	30	4	14	0.54
7'-8' BB	20	11	30	4	13	0.54
8'-10' BB	24	14	36	4	16	0.61
10'-12' BB	26	15	36	4	17	0.61

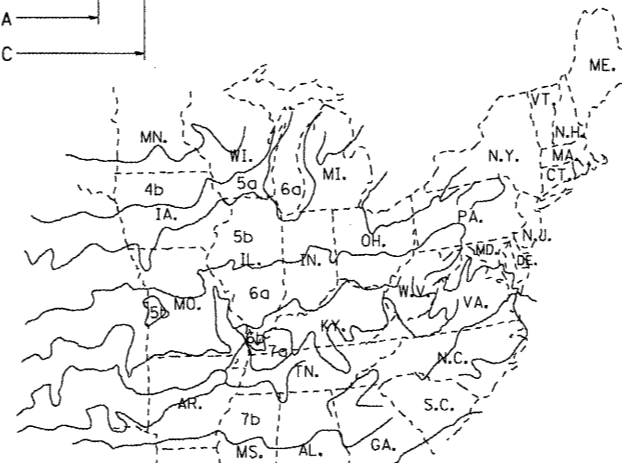
LARGE	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER CU. YDS.
0-2	20	11	36	4	13	0.61
2-2 1/2 BB	24	14	48	4	16	0.78
2 1/2-3 BB	28	17	48	4	19	0.78
3-3 1/2 BB	32	17	60	4	19	0.96
3 1/2-4 BB	36	20	60	4	22	0.96
4-4 1/2 BB	40	22	72	4	24	1.16
4 1/2-5 BB	44	24	72	4	26	1.16
5-5 1/2 BB	48	27	84	4	29	1.38



**TREES OVER 4 1/2 IN DIAMETER**

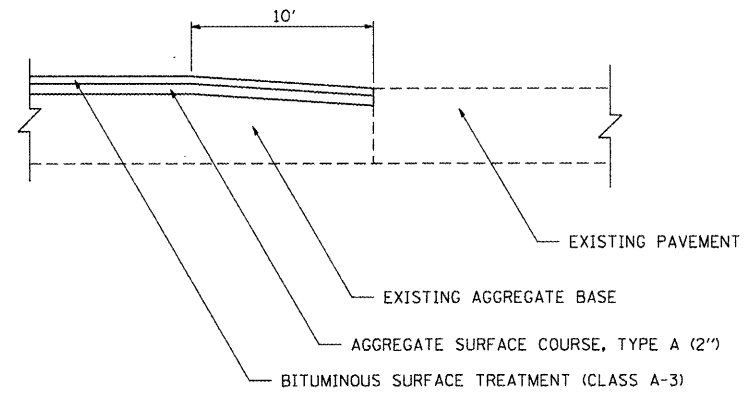


ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



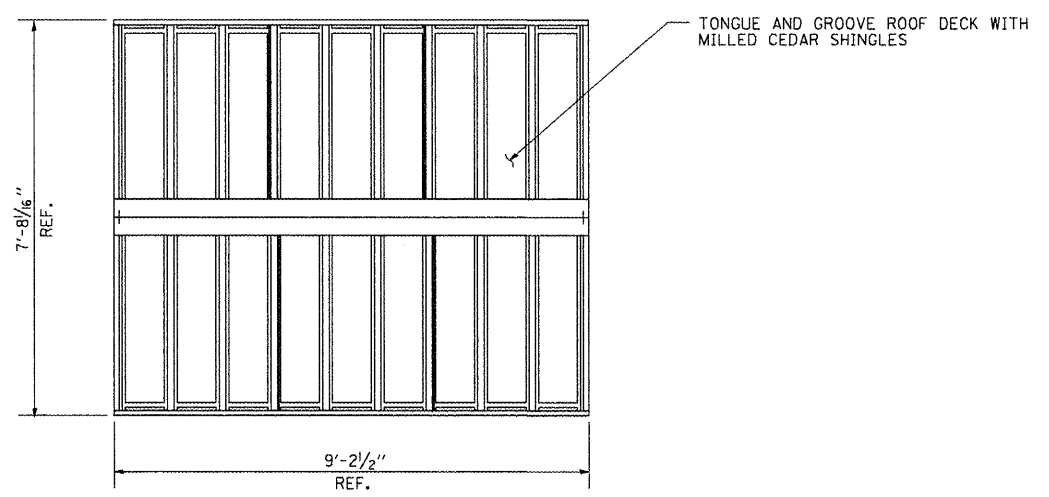
PLANT HARDINESS ZONE MAP

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL RESEARCH SERVICE  
PUBLICATION NO. 814

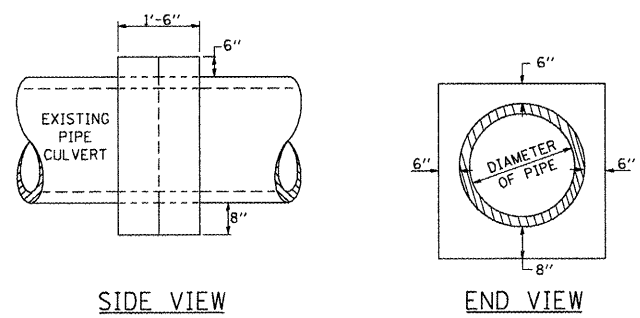


**TRANSITION DETAIL**

COST TO GRADE EXISTING AGGREGATE IS INCLUDED IN PREPARATION OF BASE



**ROOF PLAN**



**SIDE VIEW**

**END VIEW**

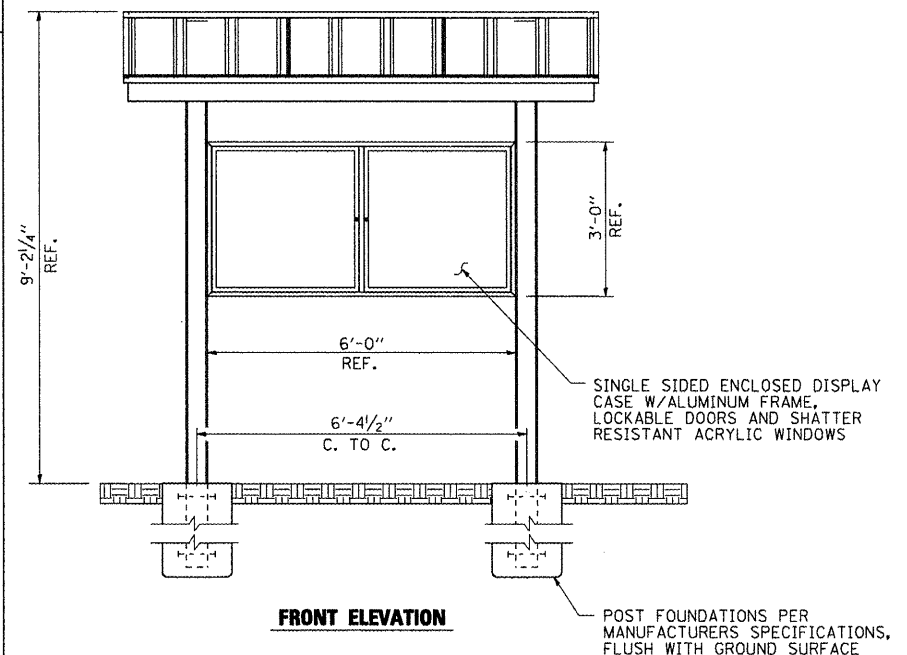
**TABULATION**

DIAMETER OF PIPE	CL SI CONC CU YDS EST
12"	0.24
15"	0.29
18"	0.32
24"	0.44
30"	0.56
36"	0.66
42"	0.80
48"	0.93
54"	1.07
60"	1.22
72"	1.55

THE CONCRETE COLLAR SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR CONCRETE COLLAR, AS SHOWN ON THE PLANS, WHICH PRICE SHALL INCLUDE THE REMOVAL OF SUCH PORTIONS THE EXISTING HEADWALLS AS MAY BE REQUIRED.  
CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

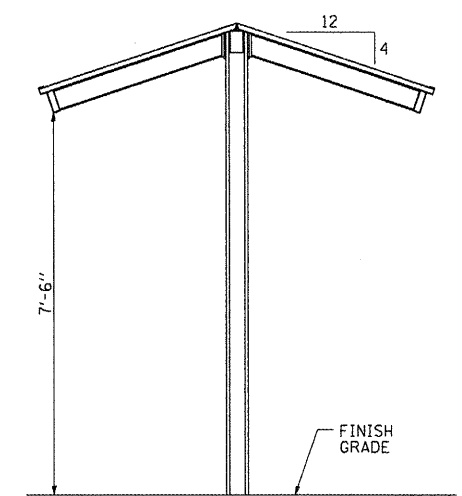
**DETAILS OF CONCRETE COLLAR**

PIPE TO PIPE



**FRONT ELEVATION**

POST FOUNDATIONS PER MANUFACTURERS SPECIFICATIONS, FLUSH WITH GROUND SURFACE



**SIDE VIEW**

**TYPICAL KIOSK DETAILS**

NO SCALE

FILE NAME = L:\1001\1106610\W0_4\Draw\CA00_Sheets\0346211-shs-details.001.dgn	USER NAME = OpenH&B Springfield	DESIGNED - MJO	REVISED -
PLOT SCALE = 6.0000 / / IN.		DRAWN - RAH	REVISED -
PLOT DATE = 3/29/2012		CHECKED - BJD	REVISED -
		DATE - 3/30/12	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MISCELLANEOUS CONSTRUCTION DETAILS  
IDNR HENNEPIN CANAL LOCK 21 PARK SITE**

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PARK ROADS	BUREAU	28	28
			CONTRACT NO. 46211	
ILLINOIS FED. AID PROJECT				