

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	MASSAC CAMPGROUND 2020	MASSAC	32	1
		ILLINOIS	CONTRACT NO. 46922	

D-9

# STATE OF ILLINOIS

## DEPARTMENT OF TRANSPORTATION

### DIVISION OF HIGHWAYS

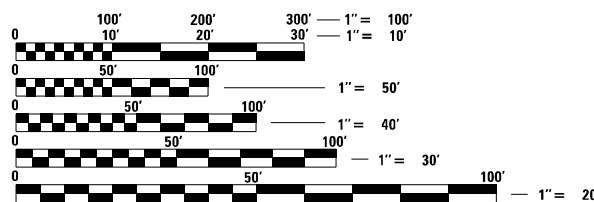
# PROPOSED HIGHWAY PLANS

## FORT MASSAC STATE PARK MASSAC CAMPGROUND 2020 INTERNAL PARK ROADS MASSAC COUNTY

INDEX OF SHEETS

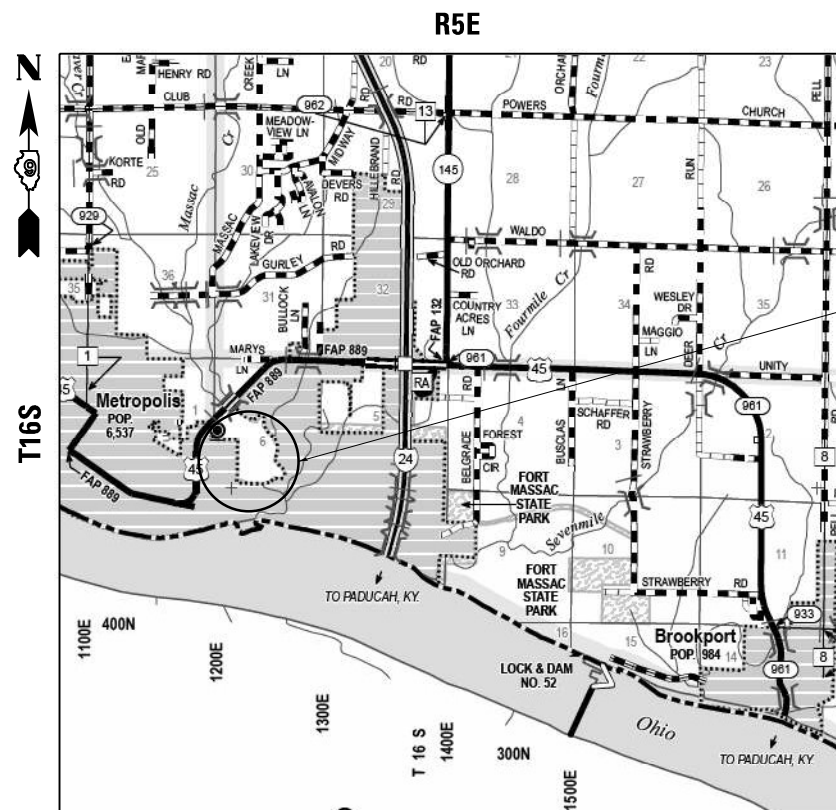
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FOR LIST OF STANDARDS, SEE SHEET NO. 2



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 LOCATING INFORMATION FOR EXCAVATORS  
1-800-892-0123  
OR 811



**LOCATION MAP**  
N.T.S.

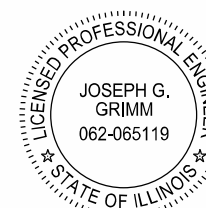
GROSS LENGTH = 3,439.29 FT. = 0.651 MILES  
NET LENGTH = 3,439.29 FT. = 0.651 MILES

**Farnsworth GROUP**  
2211 W. BRADLEY AVENUE  
CHAMPAIGN, ILLINOIS 61821  
(217) 352-7408 / info@f-w.com



*Tyler J. Hazelwonder*  
TYLER J. HAZELWONDER, P.E.  
LICENSED PROFESSIONAL ENGINEER  
ILLINOIS NO. 062-070655 EXPIRES 11-30-21  
SHEETS: 14-16, 22-27  
KASKASKIA ENGINEERING GROUP, LLC

DATE  
6/5/2020



*Joseph G. Grimm*  
JOSEPH G. GRIMM, P.E.  
LICENSED PROFESSIONAL ENGINEER  
ILLINOIS NO. 062-065119 EXPIRES 11-30-21  
SHEETS: 1-13, 17-21, 28-32  
FARNSWORTH GROUP, INC.

DATE  
6-5-2020

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED AUGUST 14 2020

*Joseph G. Grimm*  
REGIONAL ENGINEER

August 14, 2020  
*Joseph G. Grimm*  
ENGINEER OF DESIGN AND ENVIRONMENT

August 14, 2020  
*James J. ...*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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# GENERAL NOTES

- TREES THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS SHALL BE REMOVED AS INDICATED BY THE ENGINEER. ANY TREE DUE TO ITS LOCATION AND DEEMED SUITABLE FOR SAVING BY THE ENGINEER SHALL BE PROTECTED DURING CLEARING AND SUBSEQUENT CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST. TREE PROTECTION WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE WORK ITEM REQUIRING PROTECTION.
- EXISTING TREES AND TREE CANOPY SHALL BE PROTECTED/CLEARED ACCORDING TO ARTICLE 201 OF THE STANDARD SPECIFICATIONS. ANY BRANCHES BROKEN OR DAMAGED DURING CLEARING OR CONSTRUCTION OPERATIONS SHALL BE PRUNED ACCORDING TO ANSI A300 OR AS INDICATED BY IDNR STAFF/BIOLOGIST. PRUNING SHALL BE INCLUDED IN THE COST OF OTHER ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 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 OF EXISTING SITE AS POSSIBLE. THE DECISION AS TO ITEMS TO REMAIN IN PLACE SHALL BE AS INDICATED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES AND SHALL BE LIABLE FOR ANY DAMAGE TO THEM RESULTING FROM THEIR OPERATIONS.
- THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.
- EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- HORIZONTAL COORDINATES ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD 83 (1983).
- ALL AREAS DISTURBED FOR ANY REASON SHALL BE PERMANENTLY SEEDED, FERTILIZED, AND MULCHED AS INDICATED BY THE ENGINEER. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDED, FERTILIZED, AND MULCHED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- WHEN EXISTING SIGNS TO BE REMOVED ARE TO BE REPLACED BY NEW SIGNS, THE NEW SIGNS SHALL BE COMPLETELY INSTALLED PRIOR TO THE REMOVAL OF THE EXISTING AND DUPLICATE SIGNS SHALL NOT EXIST FOR MORE THAN 24 HOURS.
- FULL DEPTH SAW CUTS SHALL BE PROVIDED AT ALL REMOVAL LIMITS UNLESS OTHERWISE SHOWN ON THE PLANS. ALL SAW CUTS, NECESSARY TO COMPLETE THE WORK DETAILED IN THESE PLANS, SHALL BE INCLUDED IN THE COST FOR THE VARIOUS PAY ITEMS INVOLVED.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.
- ALL BINDER COURSES SHALL RECEIVE A TACK COAT OF PRIME BEFORE THE FOLLOWING LIFT IS PLACED WHEN INDICATED BY THE ENGINEER.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER OR AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- ILLINOIS STATE LAW REQUIRES A 48 HOUR NOTICE TO BE GIVEN TO ALL UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

BELOW ABOVE  
GROUND GROUND

- \* CLEARWAVE COMMUNICATIONS  
ATTN: ROTH CLAYTON  
877-552-9283
- \* FORT MASSAC WATER DIST.  
ATTN: DAVID TRAVIS  
618-543-7475
- \* FRONTIER COMMUNICATIONS  
ATTN: KALIN HINSHAW  
618-895-1515
- \* CITY OF METROPOLIS  
ATTN: STONEY BARRETT  
618-645-2003
- \* LIBERTY UTILITIES  
ATTN: MIKE BEATTY  
573-979-0220

MEMBERS OF J.U.L.I.E. (800)-892-0123 ARE INDICATED BY \*.  
NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY. (NONE KNOWN)

# COMMITMENTS

- NONE.

# HIGHWAY STANDARDS

000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
701001-02	OFF-RD MOVING OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD MOVING OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE 2L, 2W, SLOW MOVING OPERATIONS
701311-03	LANE CLOSURE 2L, 2W, MOVING OPERATIONS DAY ONLY
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS, & DELINEATORS
780001-05	TYPICAL PAVEMENT MARKINGS

# RATES OF APPLICATION TABLE

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

AGGREGATE (SURFACE, BASE, SUBBASE OR BACKFILL).....	2.05 TON / CU YD
SUBBASE GRANULAR MATERIAL, TYPE B .....	2.05 TON / CU YD
HOT-MIX ASPHALT	
BITUMINOUS MATERIAL (TACK COAT) (ON EXIST PAVEMENT) .....	0.05 LB / SQ FT
BITUMINOUS MATERIAL (TACK COAT) (ON HMA LIFTS) .....	0.025 LB / SQ FT
BITUMINOUS MATERIAL (PRIME COAT) (AGGREGATE BASE).....	0.25 LB / SQ FT
HOT-MIX ASPHALT SURFACE/ BINDER (112 LB / SQ YD / IN).....	0.056 TON / SQ YD * IN
SEEDING AREAS:	
NITROGEN FERTILIZER NUTRIENT.....	90 LBS / ACRE
PHOSPHOROUS FERTILIZER NUTRIENT.....	90 LBS / ACRE
POTASSIUM FERTILIZER NUTRIENT.....	90 LBS / ACRE

# HMA MIXTURE REQUIREMENTS TABLE

LOCATION	PARK ROADS AND PARKING LOTS	PARK ROADS AND PARKING LOTS
MIXTURE USE:	HMA BINDER FG CSE LIFT	HMA SURFACE CSE LIFT
PG	PG 64-22	PG 70-22
DESIGN AIR VOIDS	4.0% @ N <sub>DES</sub> = 70	4.0% @ N <sub>DES</sub> = 70
MIXTURE COMPOSITION (GRADATION)	IL 9.5 FG	IL 9.5
FRICTION AGGREGATE	N/A	MIX C
MIXTURE WEIGHT	112 LB / SQ YD / IN	112 LB / SQ YD / IN
QUALITY MANAGEMENT PLAN	QC/QA	QC/QA
SUBLOT SIZE	N/A	N/A

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, HIGHWAY STANDARDS, COMMITMENTS  
FORT MASSAC STATE PARK**

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

F.A. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
***	MASSAC CAMPGROUND 2020	MASSAC	32	2
			CONTRACT NO. 46922	
ILLINOIS FED. AID PROJECT				

REV. - MS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% STATE	CONSTR. CODE
					URBAN
					ROADWAY 0005
* 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNITS	71		71
* 20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNITS	164		164
20200100	EARTH EXCAVATION	CU YD	165		165
20800150	TRENCH BACKFILL	CU YD	23		23
* 21101600	TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH	SQ YD	87		87
* 21400100	GRADING AND SHAPING DITCHES	FOOT	1,248		1,248
25000210	SEEDING, CLASS 2A	ACRE	0.5		0.5
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	43		43
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	43		43
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	43		43
25100115	MULCH, METHOD 2	ACRE	0.5		0.5
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	48		48
28000305	TEMPORARY DITCH CHECKS	FOOT	30		30
28000500	INLET AND PIPE PROTECTION	EACH	6		6
28100105	STONE RIPRAP, CLASS A3	SQ YD	33		33
28200200	FILTER FABRIC	SQ YD	33		33

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% STATE	CONSTR. CODE
					URBAN
					ROADWAY 0005
35101582	AGGREGATE BASE COURSE, TYPE B 2"	SQ YD	366		366
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	19		19
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	43		43
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	681		681
35102400	AGGREGATE BASE COURSE, TYPE B 12"	SQ YD	87		87
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	416		416
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	3,711		3,711
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	6,395		6,395
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	113		113
40600990	TEMPORARY RAMP	SQ YD	51		51
40602970	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70	TON	394		394
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL 9.5, MIX "C", N70	TON	985		985
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	43		43
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	3,279		3,279
42400800	DETECTABLE WARNINGS	SQ FT	50		50
44000100	PAVEMENT REMOVAL	SQ YD	12		12

\* PAY ITEMS WITH SPECIAL PROVISION

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
FORT MASSAC STATE PARK

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
***	MASSAC CAMPGROUND 2020	MASSAC	32	3
CONTRACT NO.			46922	
ILLINOIS		FED. AID PROJECT		

CODE NO.	ITEM	UNIT	100% STATE		CONSTR. CODE
			TOTAL QUANTITY	URBAN	ROADWAY
					0005
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	45	45	
44000600	SIDEWALK REMOVAL	SQ FT	495	495	
44201692	CLASS D PATCHES, TYPE II, 4 INCH	SQ YD	88	88	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	105	105	
50105220	PIPE CULVERT REMOVAL	FOOT	90	90	
542A0217	PIPE CULVERTS, CLASS A, TYPE 1 12"	FOOT	210	210	
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	10	10	
* 60617800	PAVED FLUME	FOOT	70	70	
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	6	6	
67100100	MOBILIZATION	L SUM	1	1	
* 72000100	SIGN PANEL - TYPE 1	SQ FT	51	51	
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	11	11	
* 72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	1	1	
* 72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	1	1	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	16	16	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	784	784	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	72	72	

CODE NO.	ITEM	UNIT	100% STATE		CONSTR. CODE
			TOTAL QUANTITY	URBAN	ROADWAY
					0005
* 81028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	448	448	
* 81400730	HANDHOLE, COMPOSITE CONCRETE	EACH	1	1	
* 81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE), 1/C NO. 10	FOOT	1,398	1,398	
* 83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	18	18	
84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	1	1	
* X0300019	REMOVE AND REINSTALL PARKING BLOCKS	EACH	5	5	
* X0301430	PRECAST CONCRETE PARKING BLOCK	EACH	60	60	
* X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	306	306	
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
* * X7200105	SIGN PANEL - TYPE 1 (SPECIAL)	SQ FT	10	10	
* X7270025	REMOVE EXISTING SIGN SUPPORT	EACH	2	2	
* * X7300105	WOOD SIGN SUPPORT, SPECIAL	FOOT	203	203	
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
* Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	2	2	
* * X1400431	LIGHTING ASSEMBLY (SPECIAL)	EACH	3	3	
* X2600033	CAMP SITE MARKER	EACH	49	49	

\* SPECIALTY ITEM

\* PAY ITEMS WITH SPECIAL PROVISION

REV. - MS

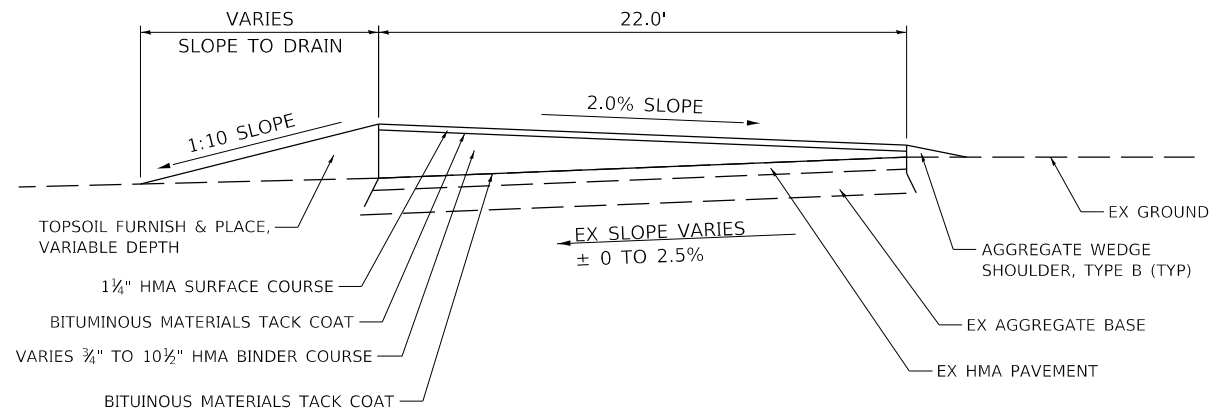
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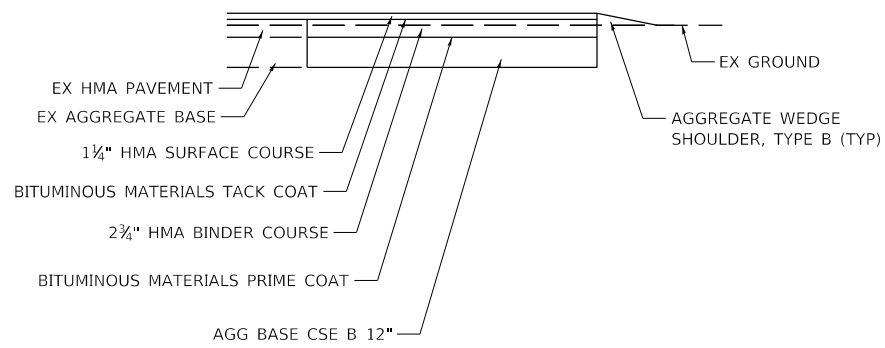
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

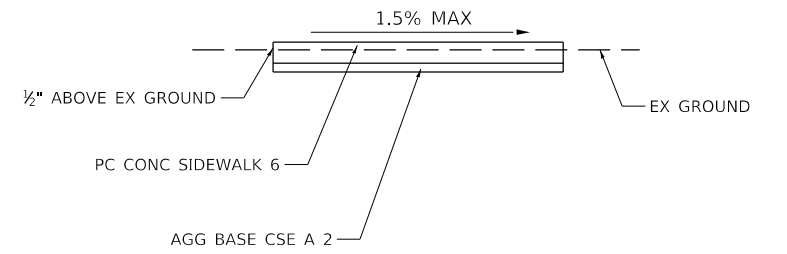
SUMMARY OF QUANTITIES		F.A. RTE.	
FORT MASSAC STATE PARK		SECTION	
SCALE: NO SCALE	SHEET 2 OF 2 SHEETS	MASSAC CAMPGROUND 2020	COUNTY MASSAC
STA.	TO STA.	TOTAL SHEETS 32	SHEET NO. 4
		CONTRACT NO. 46922	
		ILLINOIS FED. AID PROJECT	



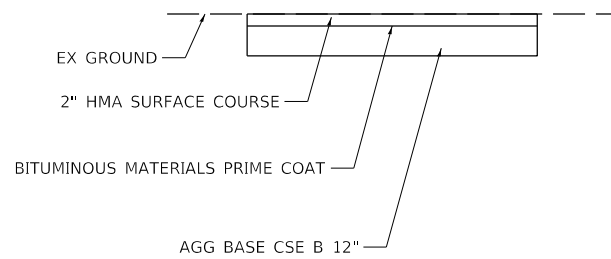
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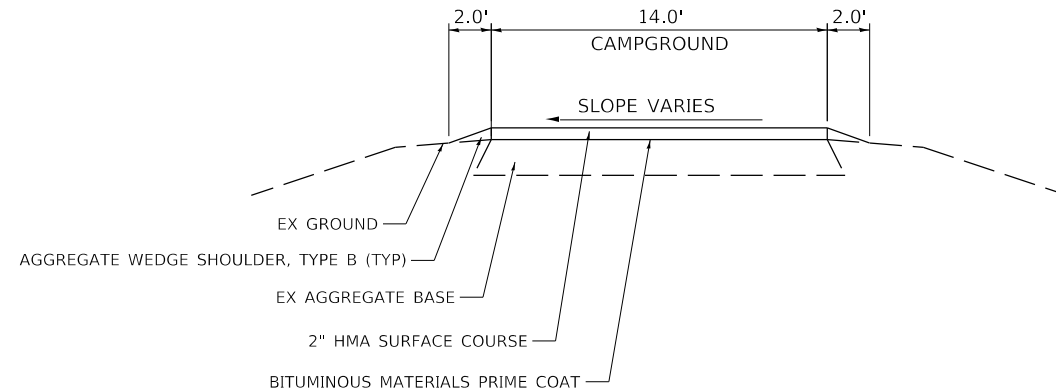
**PROPOSED DUMP STATION - WIDENING DETAIL**



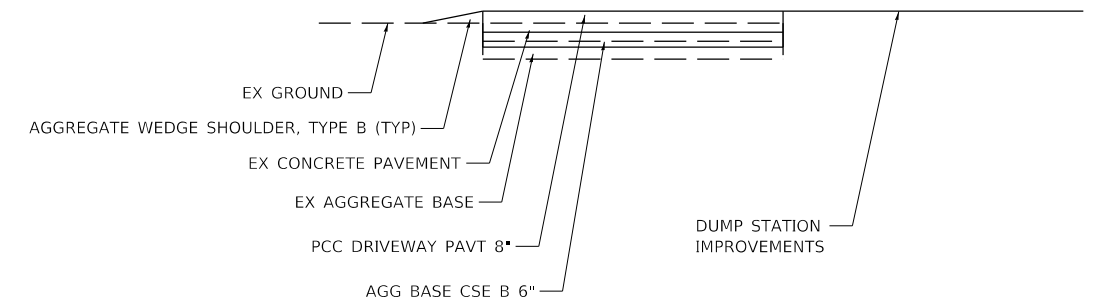
**PROPOSED PCC SIDEWALK DETAIL**



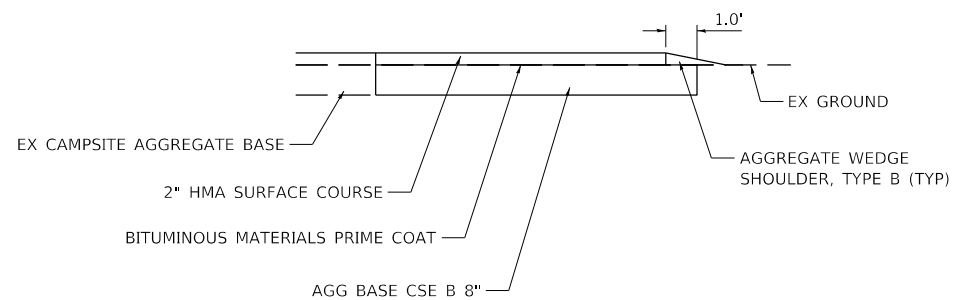
**PROPOSED CABIN PARKING DETAIL**



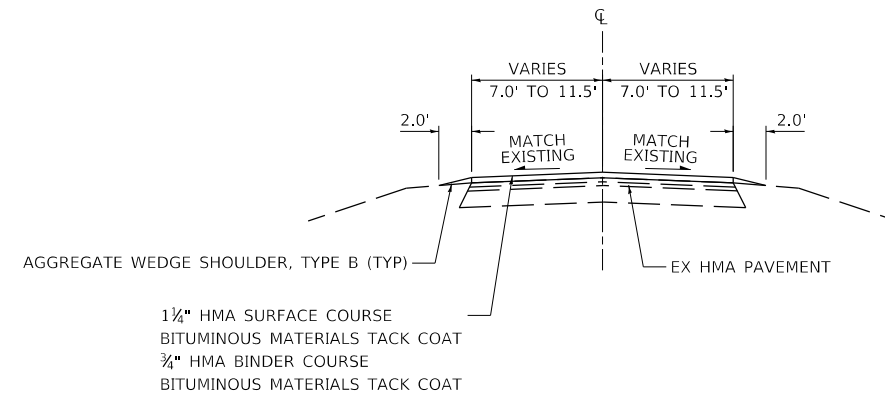
**PROPOSED TYPICAL SECTION - CAMPGROUND CAMPSITES AND HOST SITE HMA OVERLAY**



**PROPOSED DUMPSTER PAD DETAIL**



**PROPOSED CAMPGROUND CAMPSITES - WIDENING DETAIL**



**PROPOSED TYPICAL SECTION - PARK ROADS - HMA RESURFACING**

CAMPGROUND ROADS  
STA. 20+10.87 TO 35+85.04  
STA. 40+00.00 TO 52+30.03  
STA. 60+00.00 TO 66+36.74

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**Farnsworth GROUP**  
2211 BRADLEY AVENUE  
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(217) 352-7408 / info@fw.com

USER NAME = jgrimm	DESIGNED - JGG	REVISED
	DRAWN - SRL	REVISED
PLOT SCALE = 2.00' / in.	CHECKED - RPU	REVISED
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**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS FORT MASSAC STATE PARK</b>			
SCALE: NO SCALE	SHEET 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
***	MASSAC CAMPGROUND 2020	MASSAC	32	5
			CONTRACT NO.	46922
ILLINOIS	FED. AID PROJECT			

AGGREGATE			
LOCATION	OFFSET	AGGREGATE SURFACE COURSE, TYPE B	AGGREGATE WEDGE SHOULDER, TYPE B
	LT/RT	40200800 TON	48102100 TON
STA 20+10.9 TO 21+50.6	LT		2.0
STA 22+04.6 TO 23+32.6	LT		1.6
STA 20+10.9 TO 24+50.7	RT		6.2
STA 23+84.1 TO 26+26.7	LT		2.9
STA 24+50.7 TO 26+71.3	RT		3.6
STA 26+71.3 TO 27+54.6	RT		1.3
STA 27+59.6 TO 28+87.5	RT		2.3
STA 27+36.1 TO 28+04.8	LT		0.8
STA 28+87.5 TO 29+94.2	RT		2.3
STA 29+00.6 TO 29+78.3	LT		1.0
DUMP STATION			2
PROPOSED CABIN PARKING			4
CAMPSITE #22		2	2
CAMPSITE #34		2	2
CAMPSITE #50		15	
CAMPSITE #49		17	
STA 30+08.0 TO 30+38.4	LT		0.4
CAMPSITE #48		14	
STA 30+21.8 TO 30+89.2	RT		0.8
STA 30+57.0 TO 31+02.8	LT		0.6
CAMPSITE #47		16	
CAMPSITE #46		18	
STA 31+27.8 TO 31+93.3	LT		0.8
STA 31+33.2 TO 31+71.3	RT		0.5
CAMPSITE #44		17	
CAMPSITE #45		15	
CAMPSITE #42		2	1.8
STA 32+16.4 TO 32+65.2	LT		0.6
STA 32+46.9 TO 33+19.7	RT		0.9
CAMPSITE #43		17	
STA 32+97.8 TO 33+49.8	LT		0.6
CAMPSITE #40		2	1.6
STA 33+45.0 TO 34+30.9	RT		1.1
CAMPSITE #41		11	
STA 33+69.4 TO 34+09.8	LT		0.5
CAMPSITE #39		16	
STA 34+30.9 TO 35+65.0	RT		2.3
STA 34+36.2 TO 35+65.0	LT		1.6
STA 35+65.04 TO 35+85.04		3	
CAMPSITE #1		2	1.6
CAMPSITE #2			2.6
STA 40+88.6 TO 41+42.5	RT		0.6
CAMPSITE #3		2	1.6
STA 41+73.0 TO 42+23.4	RT		0.6
STA 41+73.2 TO 42+37.8	LT		0.8
CAMPSITE #5		15	
CAMPSITE #4		2	1.6
STA 42+45.8 TO 42+97.3	RT		0.6
STA 42+79.4 TO 43+18.0	LT		0.4
CAMPSITE #7		15	
CAMPSITE #6		2	1.6
STA 43+31.7 TO 43+81.8	RT		0.6
STA 43+57.4 TO 44+04.6	LT		0.5
CAMPSITE #9		17	
CAMPSITE #8		2	1.8
<b>SUBTOTAL</b>		<b>224</b>	<b>63.0</b>

AGGREGATE			
LOCATION	OFFSET	AGGREGATE SURFACE COURSE, TYPE B	AGGREGATE WEDGE SHOULDER, TYPE B
	LT/RT	40200800 TON	48102100 TON
STA 44+16.6 TO 44+59.4	RT		0.5
STA 44+51.0 TO 44+80.5	LT		0.3
CAMPSITE #11		15	
CAMPSITE #10		2	1.8
STA 44+91.4 TO 45+40.4	RT		0.6
CAMPSITE #12		13	
STA 45+22.6 TO 46+77.3	LT		1.8
STA 45+65.3 TO 46+16.1	RT		0.7
CAMPSITE #13		2	1.7
STA 46+45.9 TO 47+31.5	RT		1.1
CAMPSITE #14		2	1.6
STA 47+02.7 TO 48+27.2	LT		1.3
CAMPSITE #15		2	1.6
STA 47+52.9 TO 48+06.0	RT		0.7
CAMPSITE #16		2	1.8
CAMPSITE #17		2	1.8
STA 48+44.7 TO 48+65.9	RT		0.2
CAMPSITE #18		2	1.7
STA 48+70.4 TO 49+01.9	LT		0.3
CAMPSITE #19		2	1.6
STA 49+04.6 TO 49+56.3	RT		0.6
STA 49+42.6 TO 49+86.4	LT		0.5
CAMPSITE #20		16	
CAMPSITE #21		2	1.8
STA 49+87.5 TO 50+36.4	RT		0.6
STA 50+26.5 TO 50+75.2	LT		0.6
STA 50+65.2 TO 51+13.8	RT		0.6
CAMPSITE #23		2	1.6
STA 51+01.3 TO 51+56.7	LT		0.7
STA 51+54.0 TO 51+68.9	RT		0.1
CAMPSITE# 26		2	1.6
STA 61+07.9 TO 61+56.2	RT		0.6
CAMPSITE #27		20	
CAMPSITE #28		19	
STA 61+59.0 TO 62+11.2	LT		0.6
STA 61+92.6 TO 62+29.5	RT		0.4
CAMPSITE #29		2	1.8
CAMPSITE #30		17	
STA 62+55.1 TO 62+80.8	LT		0.3
STA 62+70.8 TO 63+25.2	RT		0.6
CAMPSITE #31		2	1.6
CAMPSITE #32		2	1.6
STA 63+20.4 TO 63+63.5	LT		0.5
STA 63+59.8 TO 64+08.2	RT		0.6
CAMPSITE #33		16	
STA 64+00.2 TO 64+93.9	LT		1.0
STA 64+38.1 TO 64+84.4	RT		0.6
CAMPSITE #36		18	
CAMPSITE #35		12	
STA 65+16.2 TO 65+35.6	RT		0.2
STA 65+17.9 TO 65+75.4	LT		0.7
CAMPSITE# 38		16	
CAMPSITE #37		2	1.5
<b>SUBTOTAL</b>		<b>192</b>	<b>42.4</b>
<b>TOTAL</b>		<b>416</b>	<b>105</b>

018017715\_Standard Project Plan.tbl  
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES  
FORT MASSAC STATE PARK**

SCALE: NO SCALE SHEET 1 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
***	MASSAC CAMPGROUND 2020	MASSAC	32	6
			CONTRACT NO. 46922	
		ILLINOIS	FED. AID PROJECT	

DRAINAGE												
LOCATION	TRENCH BACKFILL	GRADING AND SHAPING DITCHES	STONE RIPRAP, CLASS A3	FILTER FABRIC	AGGREGATE BASE COURSE, TYPE B 4"	CLASS D PATCHES, TYPE II, 4"	PIPE CULVERT REMOVAL	PIPE CULVERTS, CLASS A, TYPE 1 12"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	PAVED FLUME	DRAINAGE STRUCTURES TO BE CLEANED	
OFFSET	CU YD	FOOT	SQ YD	SQ YD	SQ YD	SQ YD	FOOT	FOOT	EACH	FOOT	EACH	
DUMP STATION	5	380	33	33		12		68	2			
PROPOSED CABIN PARKING	5	386						62	2			
STA. 19+67.8 TO 19+77.8	LT	10										
STA. 20+04.6	RT	10			13	62	53	48	2			
STA. 20+22.6 TO 20+29.1	RT		40									
STA. 20+29.1 TO 20+68.1	RT		40									
STA. 24+10.2 TO 24+24.0	RT		15									
STA. 24+71.3 TO 24+90.2	RT		20									
STA. 26+27.1 TO 26+46.5	RT		20									
STA. 26+92.8 TO 27+47.2	RT		55									
STA. 27+57.3	RT	1					10	8	2			
CAMPSITE #14	LT									17		
STA. 27+67.1 TO 28+73.7	RT		109									
STA. 29+09.7 TO 29+32.7	RT		30									
STA. 34+32.9 TO 34+70.0	RT		43									
STA. 40+28.2	RT/LT										1	
STA. 47+18.1 TO 47+21.4	RT		70									
STA. 47+21.0	RT/LT									16		
STA. 52+04.5	RT/LT										1	
STA. 60+30.5	RT/LT	2			6	14	27	24	2			
STA. 60+31.3 TO 60+60.4	LT		30									
CAMPSITE #37	LT									17		
STA. 66+03.6	RT/LT									20		
<b>TOTAL</b>		<b>23</b>	<b>1,248</b>	<b>33</b>	<b>33</b>	<b>19</b>	<b>88</b>	<b>90</b>	<b>210</b>	<b>10</b>	<b>70</b>	<b>2</b>

MISCELLANEOUS													
LOCATION	OFFSET	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL (OVER 15 UNITS DIAMETER)	AGGREGATE BASE COURSE, TYPE B 2"	AGGREGATE BASE COURSE, TYPE B 6"	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT 8"	PORTLAND CEMENT CONCRETE SIDEWALK 6"	DETECTABLE WARNINGS	PAVEMENT REMOVAL	DRIVEWAY PAVEMENT REMOVAL	SIDEWALK REMOVAL	REMOVE AND REINSTALL PARKING BLOCKS	PRECAST CONCRETE PARKING BLOCK
	LT/RT	UNITS	UNITS	SQ YD	SQ YD	SQ YD	SQ FT	SQ FT	SQ YD	SQ YD	SQ FT	EACH	EACH
STA. 26+83.1 TO 27+56.6	RT										369		
STA. 26+83.6 TO 27+57.1	RT			65			585				18		
STA. 27+56.6	LT							10					
STA. 27+57.1	RT							10					
STA. 27+57.6	LT			2			18	10					
STA. 28+15.9 TO 28+36.1	RT			19			167						
STA. 28+15.9 TO 28+43.9	LT										82		
STA. 28+30.9	LT												1
STA. 28+40.9	LT											1	
STA. 28+50.9	LT											1	
STA. 28+60.9	LT											1	
STA. 28+70.9	LT											1	
STA. 28+80.9	LT											1	
STA. 48+11.3	LT		24										
STA. 51+71.4	RT							10					
DUMP STATION		15		3	43	43	27		12	45	26		
PROPOSED CABIN PARKING		44	116	233			2,100	20					8
CAMPSITE #22			24	22			191						3
CAMPSITE #34		12		22			191						3
CAMPSITE #1													1
CAMPSITE #3 - #21													19
CAMPSITE #23													1
CAMPSITE #26 - #33													8
CAMPSITE #35 - 50													16
<b>TOTAL</b>		<b>71</b>	<b>164</b>	<b>366</b>	<b>43</b>	<b>43</b>	<b>3,279</b>	<b>50</b>	<b>12</b>	<b>45</b>	<b>495</b>	<b>5</b>	<b>60</b>

018017715\_Standard Project Plan.tbl  
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SCALE: NO SCALE		SHEET 2 OF 5 SHEETS	STA.	TO STA.
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**SCHEDULE OF QUANTITIES**  
**FORT MASSAC STATE PARK**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
***	MASSAC CAMPGROUND 2020	MASSAC	32	7
CONTRACT NO. 46922				
ILLINOIS		FED. AID PROJECT		

LOCATION							SIGNAGE								
							SIGN PANEL - TYPE 1	REMOVE SIGN PANEL ASSEMBLY - TYPE A	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	RELOCATE SIGN PANEL - TYPE 1	SIGN PANEL - TYPE 1 SPECIAL	REMOVE EXISTING SIGN SUPPORT	WOOD SIGN SUPPORT SPECIAL	CAMPSITE MARKER	
							72000100	72400100	72400500	72400710	X7200105	X7270025	X7300105		
STATION/LOCATION	OFFSET	MUTCD#	CUSTOM	WIDTH (INCH)	HEIGHT (INCH)	SIGN DESCRIPTION	SQ FT	EACH	EACH	SQ FT	SQ FT	EACH	FOOT	EACH	
20+39	LT	R1-1		30	30	STOP	6.3	1					12.5		
21+96	LT		IDNR	12	18	ONE WAY DO NOT ENTER	1.5						11.5		
22+26	LT		IDNR	18	18	POTABLE WATER SYMBOL				2.3			11.5		
22+60	LT		IDNR	18	12	DANGER WATER UNSAFE		1		1.5			11		
22+68	LT		IDNR	24	12	DUMP STATION USAGE INSTRUCTIONS		1		2.0			11		
22+77	RT		IDNR	18	24	REGISTERED CAMPERS ONLY BEYOND THIS POINT				3.0			12		
23+38	LT		IDNR	12	18	DUMP STATION SYMBOL		1		1.5			11.5		
27+98	LT		IDNR	6	6	HANDICAPPED SYMBOL				0.3		1	11		
28+29	LT		IDNR	6	3	ACCESSIBLE CAMP SITE				0.1					
28+29	LT					UTILITY WARNING			1						
28+31	LT	R7-8		12	18	HANDICAPPED PARKING	1.5						12		
28+31	LT	R7-I101		12	6	\$250 FINE	0.5	1							
29+32	RT	R5-1		30	30	DO NOT ENTER	6.3	1					12.5		
29+32	LT	R5-1		30	30	DO NOT ENTER	6.3	1					12.5		
35+02	RT	R5-1		30	30	DO NOT ENTER	6.3	1					12.5		
40+45	LT	R6-2(R)		24	30	ONE WAY	5.0	1					12.5		
51+48	LT		IDNR	6	6	HANDICAPPED SYMBOL				0.3		1	11		
51+48	LT		IDNR	6	3	ACCESSIBLE CAMP SITE				0.1					
51+87	RT	R5-1		30	30	DO NOT ENTER	6.3	1					12.5		
51+87	LT	R5-1		30	30	DO NOT ENTER	6.3	1					12.5		
60+40	LT	R6-2(R)		24	30	ONE WAY	5.0	1					12.5		
CAMPERSITE #1 (50 AMP)															1
CAMPERSITE #3															1
CAMPERSITE #4															1
CAMPERSITE #5															1
CAMPERSITE #6															1
CAMPERSITE #7															1
CAMPERSITE #8 (50 AMP)															1
CAMPERSITE #9 (50 AMP)															1
CAMPERSITE #10															1
CAMPERSITE #11															1
CAMPERSITE #12															1
CAMPERSITE #13															1
CAMPERSITE #14															1
CAMPERSITE #15															1
CAMPERSITE #16 (50 AMP)															1
CAMPERSITE #17															1
CAMPERSITE #18 (50 AMP)															1
CAMPERSITE #19															1
CAMPERSITE #20															1
CAMPERSITE #21															1
CAMPERSITE #22															1
CAMPERSITE #23															1
CAMPERSITE #24 (50 AMP)															1
CAMPERSITE #25 (50 AMP)															1
CAMPERSITE #26															1
CAMPERSITE #27															1
CAMPERSITE #28															1
CAMPERSITE #29															1
CAMPERSITE #30															1
CAMPERSITE #31 (50 AMP)															1
CAMPERSITE #32 (50 AMP)															1
CAMPERSITE #33															1
CAMPERSITE #34 (50 AMP)															1
CAMPERSITE #35															1
CAMPERSITE #36															1
CAMPERSITE #37															1
CAMPERSITE #38															1
CAMPERSITE #39															1
CAMPERSITE #40															1
CAMPERSITE #41															1
CAMPERSITE #42															1
CAMPERSITE #43															1
CAMPERSITE #44															1
CAMPERSITE #45 (50 AMP)															1
CAMPERSITE #46															1
CAMPERSITE #47															1
CAMPERSITE #48															1
CAMPERSITE #49															1
CAMPERSITE #50															1
TOTAL							51	11	1	1	10	2	203	49	

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
FORT MASSAC STATE PARK			
SCALE: NO SCALE	SHEET 3 OF 5 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
***	MASSAC CAMPGROUND 2020	MASSAC	32	8
			CONTRACT NO. 46922	
		ILLINOIS	FED. AID PROJECT	



PAVEMENT										
LOCATION	OFFSET	AGGREGATE BASE COURSE, TYPE B 8"	AGGREGATE BASE COURSE, TYPE B 12"	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	TEMPORARY RAMP	HOT-MIX ASPHALT BINDER COURSE, IL- 9.5FG, N70	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
	LT/RT	35102000	35102400	40600275	40600290	40600982	40600990	40602970	40604052	X4401198
		SQ YD	SQ YD	POUND	POUND	SQ YD	SQ YD	TON	TON	SQ YD
CAMPSITE #1					46				11	
CAMPSITE #2		45		91	224			15	25	
CAMPSITE #3					47				12	
CAMPSITE #4		41		81	50				16	
CAMPSITE #6		35		67	52				16	
CAMPSITE #8		47		91	49				17	
CAMPSITE #10		66		126	42				17	
CAMPSITE #13		36		72	48				16	
CAMPSITE #14		7		11	43				11	
CAMPSITE #15					45				11	
CAMPSITE #16		50		96	46				16	
CAMPSITE #17		64		124	41				16	
CAMPSITE #18		50		102	44				16	
CAMPSITE #19		43		88	48				16	
CAMPSITE #21		53		101	43				16	
CAMPSITE #22				433					22	
CAMPSITE #23					44				11	
CAMPSITE #24					146			9	15	
CAMPSITE #25					129			8	13	
CAMPSITE #26					44				11	
CAMPSITE #29		49		96	46				16	
CAMPSITE #31		36		70	48				12	
CAMPSITE #32					51				16	
CAMPSITE #34				426					22	
CAMPSITE #37					43				11	
CAMPSITE #40					45				11	
CAMPSITE #42					49				12	
DUMP STATION			87	196	465			84	53	156
PROPOSED CABIN PARKING				1,339					67	
STA. 20+10.9 TO 20+35.9						113				
STA. 20+10.9 TO 24+03.4					711			44	74	
STA. 20+35.9							51			
STA. 24+03.4 TO 29+30.0					1,177			73	122	
STA. 26+13.0 TO 27+63.0										150
STA. 29+30.0 TO 35+65.0					737			46	76	
STA. 33+78.7 TO 34+19.6	RT	27		47	5			2	2	
STA. 40+46.0 TO 51+90.1					1,201			75	125	
STA. 47+11.3 TO 48+03.6	LT	32		54	5			2	2	
STA. 60+42.4 TO 65+95.6					581			36	60	
<b>TOTAL</b>		<b>681</b>	<b>87</b>	<b>3,711</b>	<b>6,395</b>	<b>113</b>	<b>51</b>	<b>394</b>	<b>985</b>	<b>306</b>

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

<b>SCHEDULE OF QUANTITIES</b>	
<b>FORT MASSAC STATE PARK</b>	
SCALE: NO SCALE	SHEET 4 OF 5 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
***	MASSAC CAMPGROUND 2020	MASSAC	32	9
			CONTRACT NO. 46922	
		ILLINOIS	FED. AID PROJECT	

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LANDSCAPING								
LOCATION	OFFSET	EARTH EXCAVATION	TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH	SEEDING, CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH, METHOD 2
	LT/RT	20200100 CU YD	21101600 SQ YD	25000210 ACRE	25000400 POUND	25000500 POUND	25000600 POUND	25100115 ACRE
STA 19+67.8 TO 19+77.8	LT			0.001	0.1	0.1	0.1	0.001
STA 20+22.6 TO 20+29.1	RT			0.005	0.4	0.4	0.4	0.005
STA 20+29.1 TO 20+68.1	RT			0.005	0.4	0.4	0.4	0.005
STA 24+10.2 TO 24+24.0	RT			0.002	0.2	0.2	0.2	0.002
STA 24+71.3 TO 24+90.2	RT			0.002	0.2	0.2	0.2	0.002
STA 26+27.1 TO 26+46.5	RT			0.002	0.2	0.2	0.2	0.002
STA 26+83.6 TO 27+57.1	RT	7						
STA 26+92.8 TO 27+47.2	RT			0.006	0.6	0.6	0.6	0.006
STA 27+57.6	LT	1						
STA 27+67.1 TO 28+73.7	RT			0.013	1.1	1.1	1.1	0.013
STA 28+04.8 TO 28+15.9	RT		7	0.001	0.1	0.1	0.1	0.001
STA 28+15.9 TO 28+36.1	RT	2						
STA 28+89.2 TO 29+00.6	RT		4	0.001	0.1	0.1	0.1	0.001
STA 29+09.7 TO 29+32.7	RT			0.003	0.3	0.3	0.3	0.003
STA 34+32.9 TO 34+70.0	RT			0.005	0.4	0.4	0.4	0.005
STA 47+11.3 TO 48+3.6	LT	8						
STA 47+18.1 TO 47+21.4	RT			0.008	0.7	0.7	0.7	0.008
STA 60+31.3 TO 60+60.4	LT			0.004	0.3	0.3	0.3	0.004
STA 65+95.6 TO 66+24.3	LT	7						
DUMP STATION				0.154	13.9	13.9	13.9	0.154
PROPOSED CABIN PARKING				0.198	17.9	17.9	17.9	0.198
CAMPSITE #2		10						
CAMPSITE #4		9						
CAMPSITE #6		8						
CAMPSITE #8		11						
CAMPSITE #10		15						
CAMPSITE #13		8						
CAMPSITE #14		2						
CAMPSITE #16		11						
CAMPSITE #17		14						
CAMPSITE #18		11						
CAMPSITE #19		10						
CAMPSITE #21		12						
CAMPSITE #22				0.027	2.5	2.5	2.5	0.027
CAMPSITE #24			39	0.008	0.7	0.7	0.7	0.008
CAMPSITE #25			37	0.008	0.7	0.7	0.7	0.008
CAMPSITE #29		11						
CAMPSITE #31		8						
CAMPSITE #34				0.026	2.4	2.4	2.4	0.026
<b>TOTAL</b>		<b>165</b>	<b>87</b>	<b>0.5</b>	<b>43</b>	<b>43</b>	<b>43</b>	<b>0.5</b>

EROSION CONTROL				
LOCATION	OFFSET	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	INLET AND PIPE PROTECTION
	LT/RT	28000250 POUND	28000305 FOOT	28000500 EACH
STA 19+67.8 TO 19+77.8	LT	0.1		
STA 20+22.6 TO 20+29.1	RT	0.5		
STA 20+29.1	RT			1
STA 20+29.1 TO 20+68.1	RT	0.5		
STA 24+10.2 TO 24+24.0	RT	0.2		
STA 24+71.3 TO 24+90.2	RT	0.2		
STA 26+27.1 TO 26+46.5	RT	0.2		
STA 26+92.8 TO 27+47.2	RT	0.6		
STA 26+93.0	RT			1
STA 27+67.1	RT			1
STA 27+67.1 TO 28+73.7	RT	1.3		
STA 28+04.8 TO 28+15.9	RT	0.1		
STA 28+22.7	RT		10	
STA 28+89.2 TO 29+00.6	RT	0.1		
STA 29+09.5	RT			1
STA 29+09.7 TO 29+32.7	RT	0.3		
STA 29+18.5	RT		10	
STA 34+32.9 TO 34+70.0	RT	0.5		
STA 47+18.1 TO 47+21.4	RT	0.8		
STA 60+31.3 TO 60+60.4	LT	0.4		
STA 60+43.0	LT		10	
DUMP STATION		15.5		1
PROPOSED CABIN PARKING		19.9		1
CAMPSITE #22		2.8		
CAMPSITE #24		0.8		
CAMPSITE #25		0.8		
CAMPSITE #34		2.7		
<b>TOTAL</b>		<b>48</b>	<b>30</b>	<b>6</b>

PAVEMENT MARKING				
LOCATION	OFFSET	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	THERMOPLASTIC PAVEMENT MARKING - LINE 12"
	LT/RT	78000100 SQ FT	78000200 FOOT	78000600 FOOT
STA 27+57.3	LT/RT			42
STA 28+19.2	LT		97	
STA 28+30.5	LT	3.1		
STA 28+35.1	LT		20	
STA 28+45.1	LT		20	
STA 28+55.1	LT		20	
STA 28+65.0	LT		20	
STA 28+75.0	LT		20	
STA 28+85.0	LT		20	
PROPOSED CABIN PARKING		6.2	323	30
CAMPSITE #22		3.1	122	
CAMPSITE #34		3.1	122	
<b>TOTAL</b>		<b>16</b>	<b>784</b>	<b>72</b>



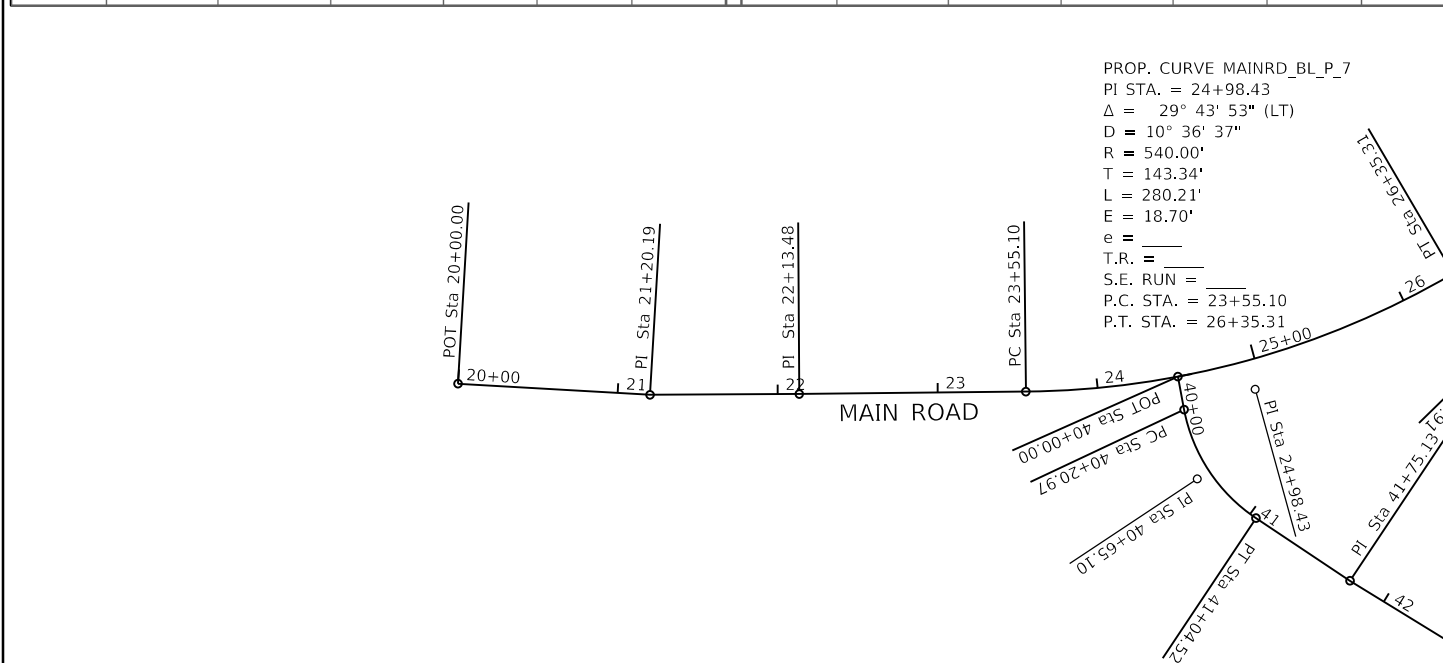
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SCHEDULE OF QUANTITIES</b>	
<b>FORT MASSAC STATE PARK</b>	
SCALE: NO SCALE	SHEET 5 OF 5 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
***	MASSAC CAMPGROUND 2020	MASSAC	32	10
			CONTRACT NO. 46922	
		ILLINOIS	FED. AID PROJECT	

MAIN ROAD													
Point Type	Station	Northing	Easting	Radius	Length	Tangent	Point Type	Station	Northing	Easting	Radius	Length	Tangent
POB	20+00.00 R1	174991.35	874182.00				PCC	30+73.49 R1	175260.50	875188.70			
PI	21+20.19 R1	174984.36	874301.99				PI	30+93.81 R1	175261.44	875209.00	75.00	39.69	20.32
							PT	31+13.18 R1	175252.00	875227.00			
PI	21+20.19 R1	174984.36	874301.99										
PI	22+13.48 R1	174984.91	874395.28				PT	31+13.18 R1	175252.00	875227.00			
							PI	31+96.34 R1	175213.39	875300.65			
PI	22+13.48 R1	174984.91	874395.28										
PC	23+55.10 R1	174986.36	874536.89				PI	31+96.34 R1	175213.39	875300.65			
							PI	32+56.57 R1	175181.24	875351.58			
PC	23+55.10 R1	174986.36	874536.89										
PI	24+98.43 R1	174987.82	874680.22	540.00	280.21	143.34	PI	32+56.57 R1	175181.24	875351.58			
PT	26+35.31 R1	175060.17	874803.95				PI	33+13.20 R1	175152.67	875400.48			
PT	26+35.31 R1	175060.17	874803.95				PI	33+13.20 R1	175152.67	875400.48			
PI	28+08.40 R1	175147.54	874953.38				PI	34+30.90 R1	175096.77	875504.05			
PC	29+36.30 R1	175218.32	875059.90				PI	35+01.65 R1	175070.08	875569.58			
PC	29+36.30 R1	175218.32	875059.90				PI	35+01.65 R1	175070.08	875569.58			
PI	30+06.61 R1	175257.24	875118.46	254.00	137.19	70.31	POE	36+67.12 R1	175012.12	875724.57			



LOOP01													
Point Type	Station	Northing	Easting	Radius	Length	Tangent	Point Type	Station	Northing	Easting	Radius	Length	Tangent
POB	40+00.00 R1	174995.77	874631.90				PC	47+11.33 R1	174748.08	875187.98			
PC	40+20.97 R1	174975.16	874635.80				PI	47+72.59 R1	174795.38	875226.91	55.00	92.31	61.26
							PT	48+03.64 R1	174829.00	875175.70			
PC	40+20.97 R1	174975.16	874635.80										
PI	40+65.10 R1	174931.80	874644.02	105.00	83.55	44.13	PT	48+03.64 R1	174829.00	875175.70			
PT	41+04.52 R1	174907.33	874680.74				PI	49+51.59 R1	174910.22	875052.03			
PT	41+04.52 R1	174907.33	874680.74				PI	49+51.59 R1	174910.22	875052.03			
PI	41+75.13 R1	174868.17	874739.50				PI	50+63.28 R1	174967.40	874956.08			
PI	41+75.13 R1	174868.17	874739.50				PI	50+63.28 R1	174967.40	874956.08			
PI	42+98.66 R1	174803.47	874844.72				PC	51+16.38 R1	174995.62	874911.11			
PI	42+98.66 R1	174803.47	874844.72				PC	51+16.38 R1	174995.62	874911.11			
PC	45+36.98 R1	174679.73	875048.40				PI	51+39.66 R1	175008.00	874891.40	195.00	46.33	23.28
							PT	51+62.71 R1	175024.66	874875.15			
PC	45+36.98 R1	174679.73	875048.40										
PI	46+01.98 R1	174645.98	875103.95	75.00	107.11	64.99	PT	51+62.71 R1	175024.66	874875.15			
PT	46+44.09 R1	174696.16	875145.25				PI	51+85.91 R1	175041.27	874858.96			
PT	46+44.09 R1	174696.16	875145.25				PI	51+85.91 R1	175041.27	874858.96			
PC	47+11.33 R1	174748.08	875187.98				POE	52+30.03 R1	175078.34	874835.03			

018017715 - Standard Project Plan  
 PEN TABLE: DRIVER  
 SHEET

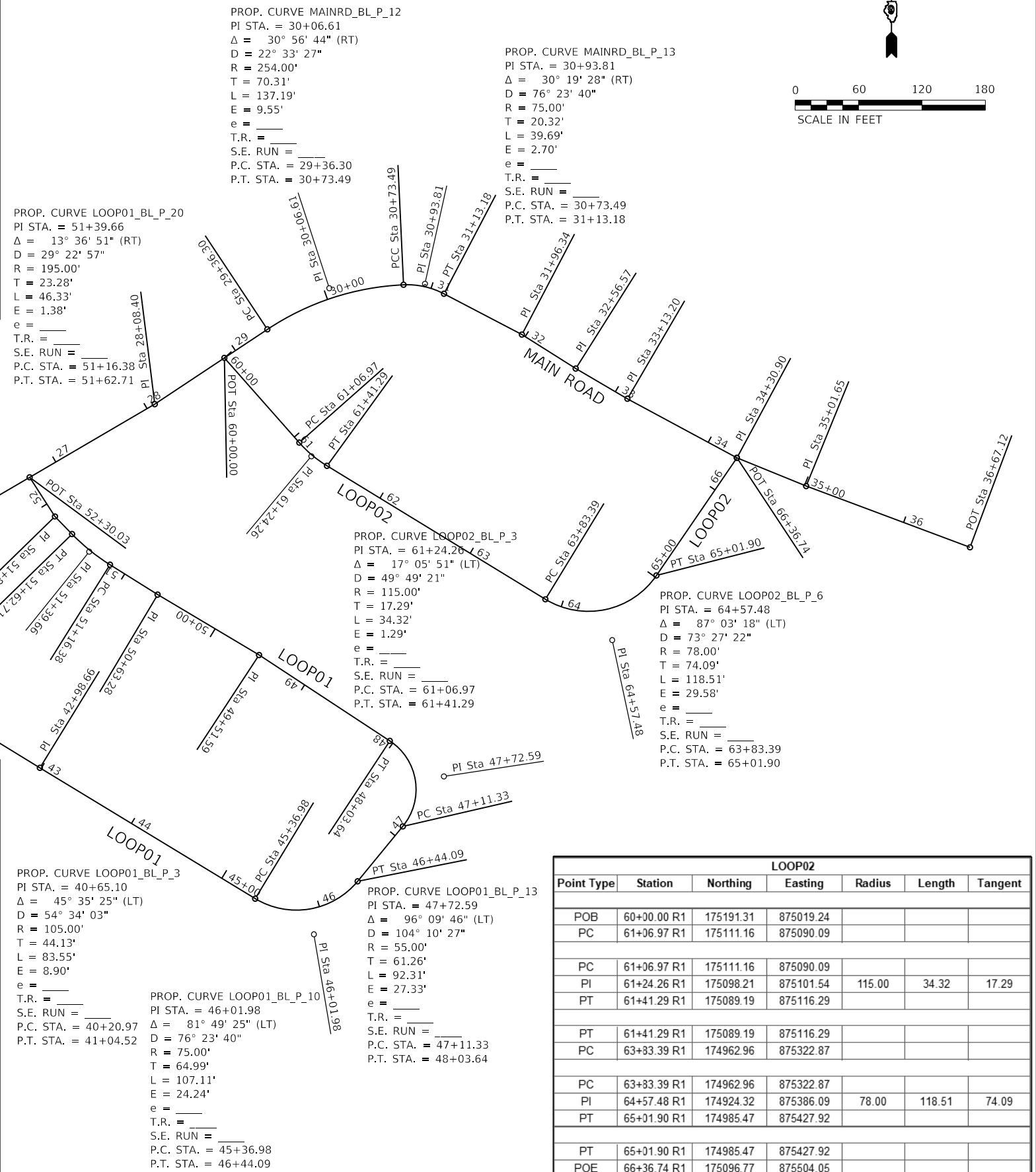
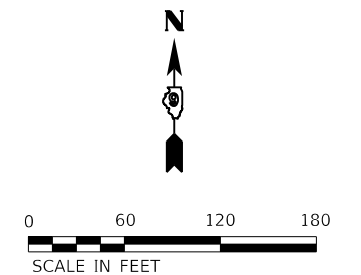
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REVISOR  
 REVISION  
 CHECKED - RPU  
 DATE - 06/05/2020

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES & BENCHMARKS  
 FORT MASSAC STATE PARK  
 SCALE: AS NOTED SHEET 1 OF 2 SHEETS STA. TO STA.

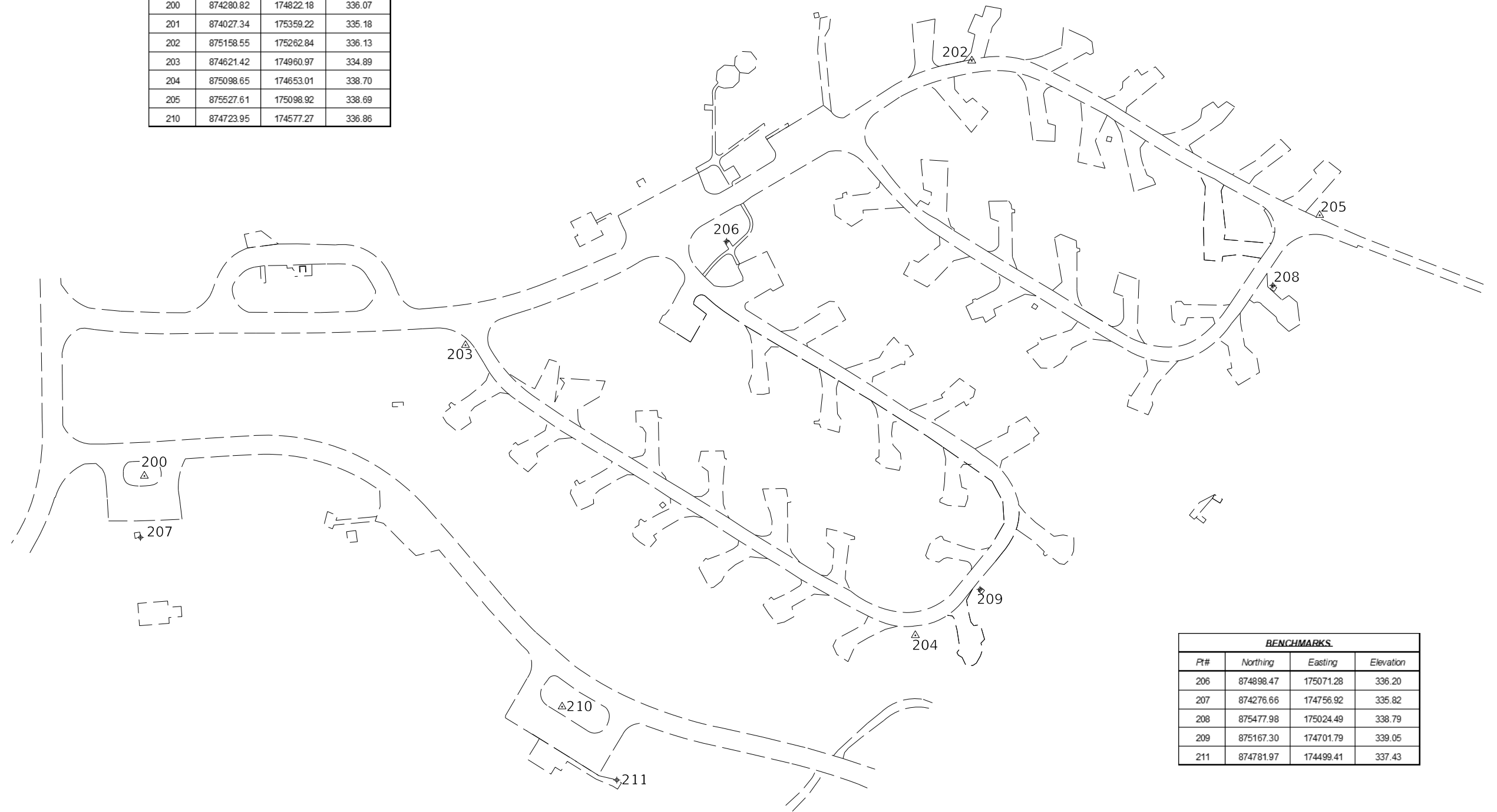
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
***	MASSAC CAMPGROUND 2020	MASSAC	32	11
CONTRACT NO. 46922				
ILLINOIS		FED. AID PROJECT		





201  
△

CONTROL POINTS			
Pt#	Northing	Easting	Elevation
200	874280.82	174822.18	336.07
201	874027.34	175359.22	335.18
202	875158.55	175262.84	336.13
203	874621.42	174960.97	334.89
204	875098.65	174653.01	338.70
205	875527.61	175098.92	338.69
210	874723.95	174577.27	336.86



BENCHMARKS			
Pt#	Northing	Easting	Elevation
206	874898.47	175071.28	336.20
207	874276.66	174756.92	335.82
208	875477.98	175024.49	338.79
209	875167.30	174701.79	339.05
211	874781.97	174499.41	337.43

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**Farnsworth GROUP**  
 2211 BRADLEY AVENUE  
 CHAMPAIGN, ILLINOIS 61821  
 (217) 352-7408 / info@f-w.com

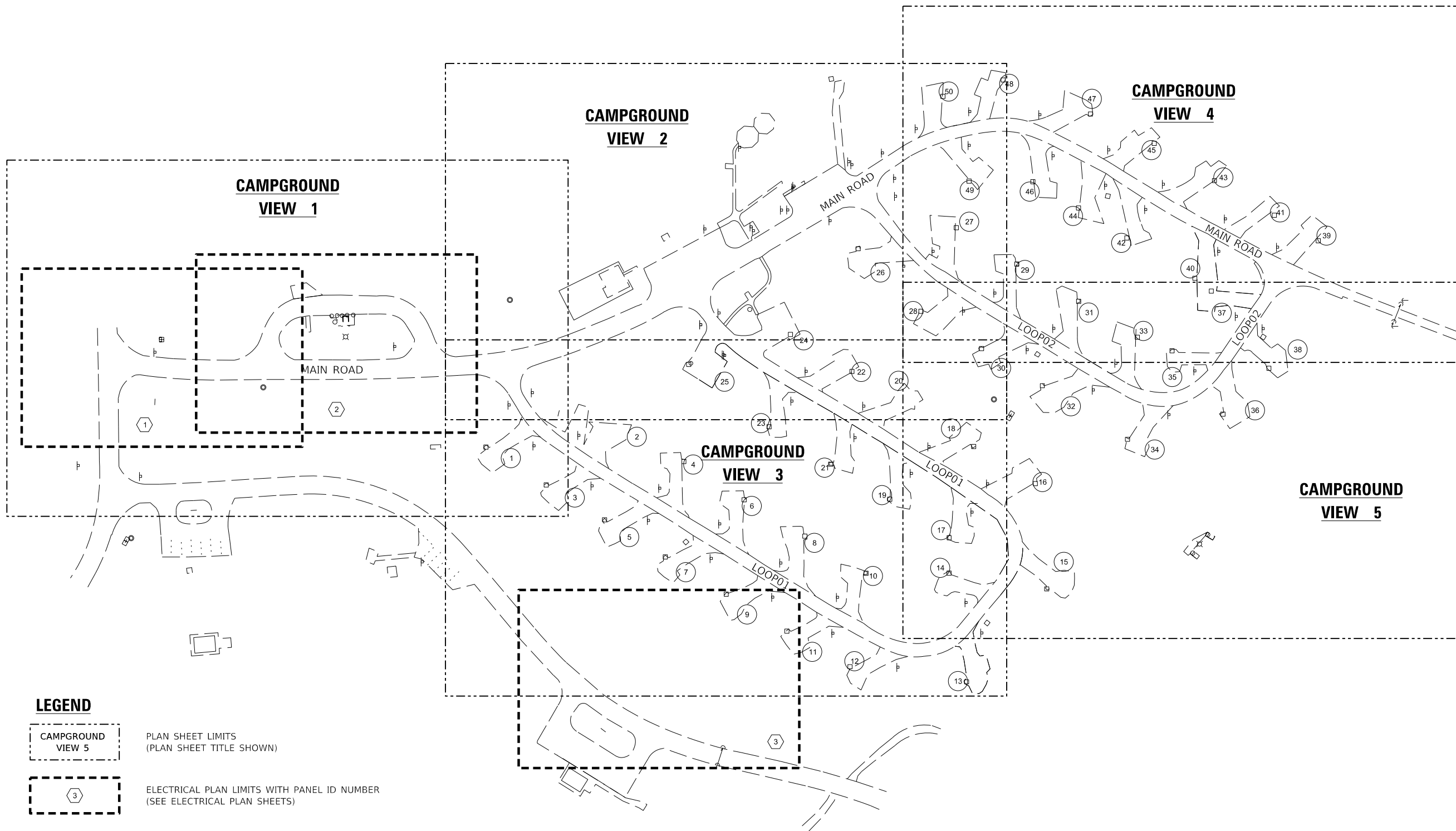
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

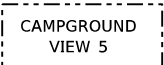
**ALIGNMENT, TIES & BENCHMARKS**  
**FORT MASSAC STATE PARK**

SCALE: AS NOTED | SHEET 2 OF 2 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
***	MASSAC CAMPGROUND 2020	MASSAC	32	12
CONTRACT NO. 46922				
ILLINOIS		FED. AID PROJECT		



**LEGEND**



PLAN SHEET LIMITS  
(PLAN SHEET TITLE SHOWN)



ELECTRICAL PLAN LIMITS WITH PANEL ID NUMBER  
(SEE ELECTRICAL PLAN SHEETS)

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**Farnsworth GROUP**  
2211 BRADLEY AVENUE  
CHAMPAIGN, ILLINOIS 61821  
(217) 352-7408 / info@f-w.com

USER NAME = jgrimm	DESIGNED - JGG	REVISED
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

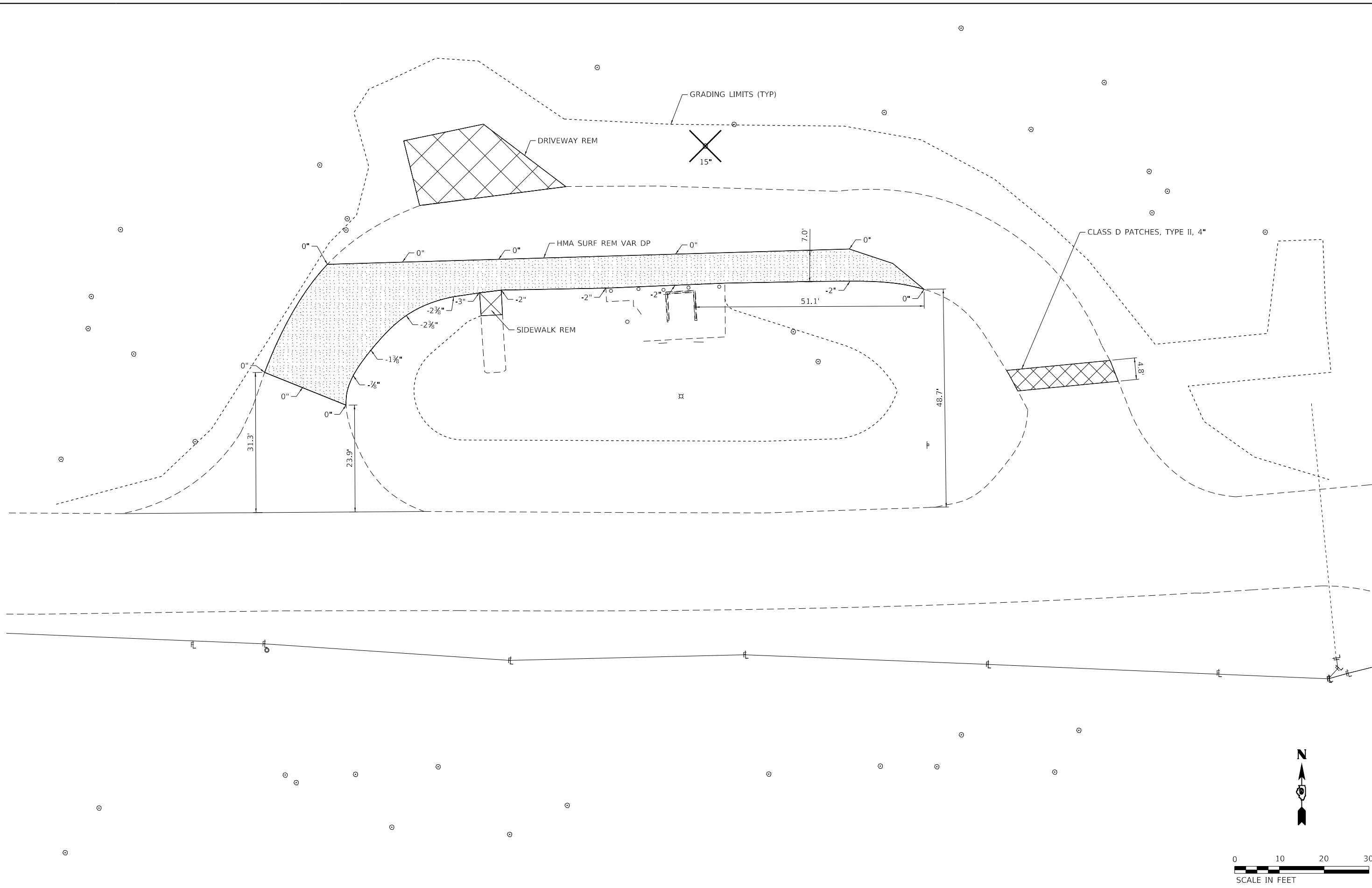
**CAMPGROUND OVERVIEW  
FORT MASSAC STATE PARK**

SCALE: AS NOTED SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 46922	
		ILLINOIS	FED. AID PROJECT	

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 \$PLOTTIME  
 \$PLOTORIG

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**Kaskaskia**  
 Engineering Group, LLC  
 288 E. Main St., Suite 200  
 Mazon, IL 60455  
 630.233.2877  
 630.233.2977  
 www.kaskaskiaeng.com

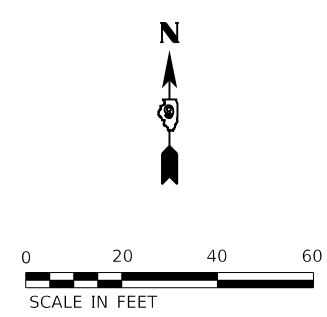
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>DUMP STATION IMPROVEMENTS - REMOVALS</b>	
<b>FORT MASSAC STATE PARK</b>	
SCALE: 1"=10'	SHEET 1 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
***	MASSAC CAMPGROUND 2020	MASSAC	32	14
CONTRACT NO. 46922				
ILLINOIS		FED. AID PROJECT		

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**Kaskaskia**  
 Engineering Group, LLC  
Professional Engineering Group

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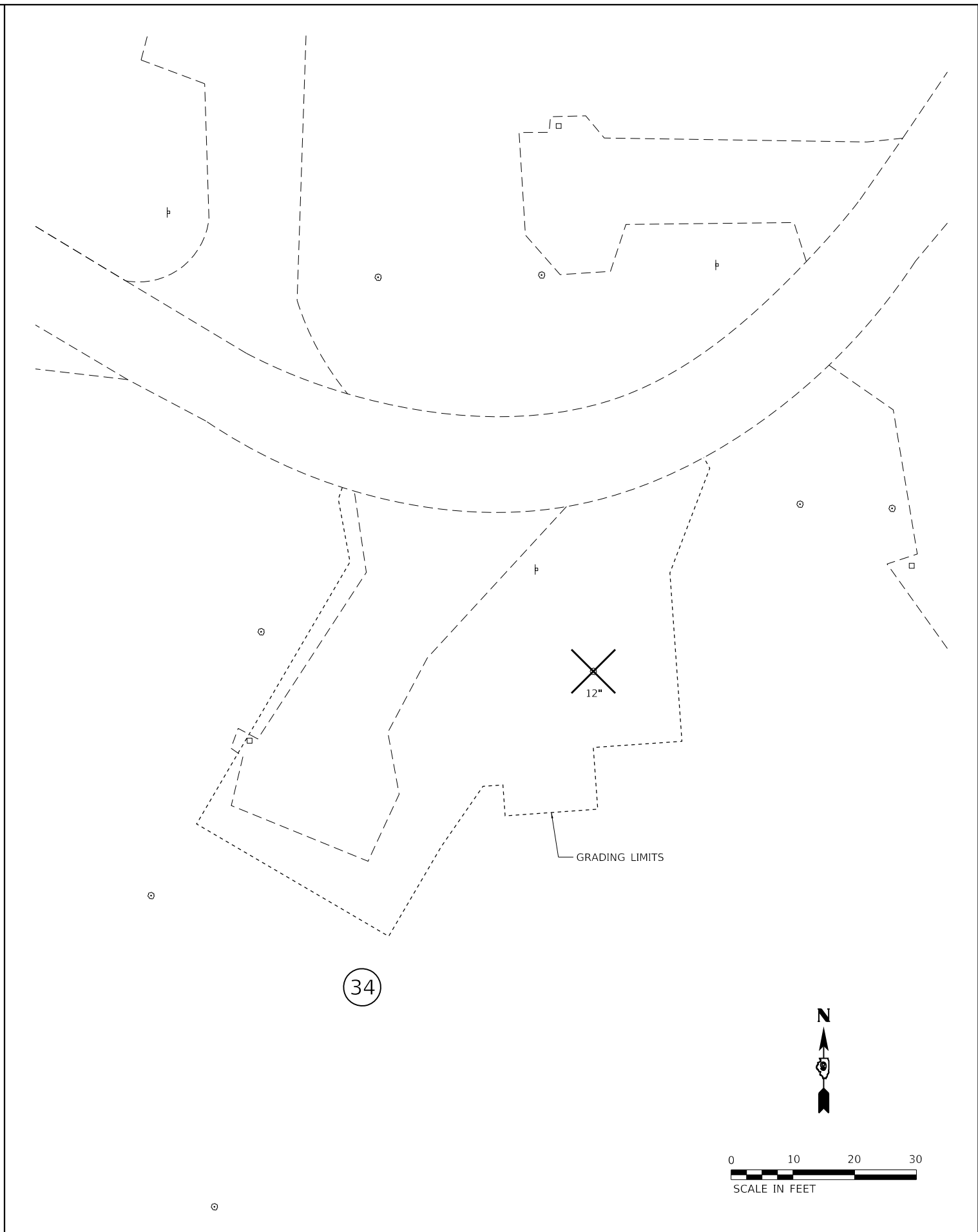
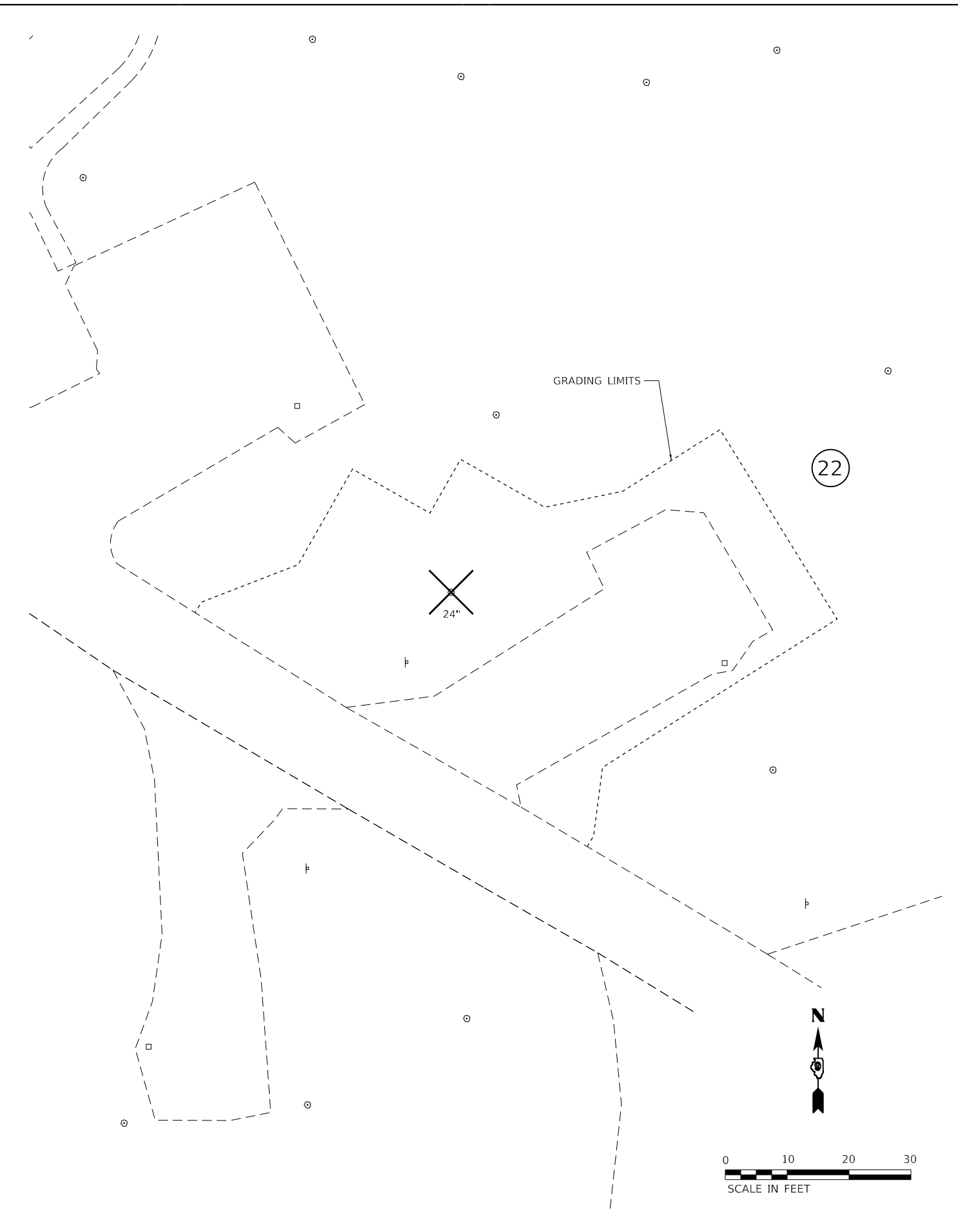
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED CABIN PARKING - REMOVALS  
 FORT MASSAC STATE PARK**

SCALE: 1"=20' SHEET 2 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
***	MASSAC CAMPGROUND 2020	MASSAC	32	15
CONTRACT NO. 46922				
ILLINOIS		FED. AID PROJECT		

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**Kaskaskia**  
 Engineering Group, LLC  
Professional Engineering Firm  
 208 E. Main St., Suite 200  
 Moline, IL 61704  
 309.233.2877 phone  
 309.233.2977 fax  
 www.kaskaskiaeng.com  
 11/27/2019  
 20-08622

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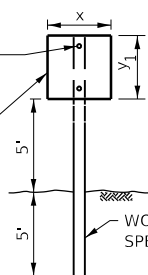
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>CAMPSITE IMPROVEMENTS - REMOVALS</b>			
<b>FORT MASSAC STATE PARK</b>			
SCALE: 1"=10'	SHEET 3 OF 3 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
***	MASSAC CAMPGROUND 2020	MASSAC	32	16
			CONTRACT NO. 46922	
		ILLINOIS	FED. AID PROJECT	



3/8" HOLES WITH S.S.  
 3/8"x5" BOLTS, FLAT  
 WASHERS & NUTS.  
 TWO EACH PER SIGN.



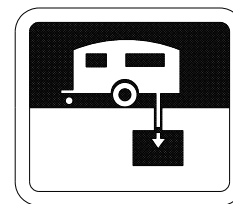
**ELEVATION**

**SIGN SIZES**

SIGN	x(in)	y <sub>1</sub> (in)
A	12	18
B	24	12
C	18	12
D	18	18
E	12	18

**NOTES**

- SIGN E SHOULD BE LOCATED ON EXIT ROADWAY FROM DUMP STATION.
- USE STANDARD OR INTERNATIONAL COLORS FOR SIGNS, WHERE APPROPRIATE. OTHER SIGNS TO BE WHITE ON BROWN PER IDNR STANDARDS.



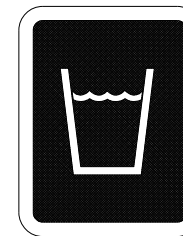
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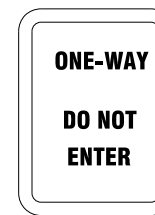
SIGN B



SIGN C

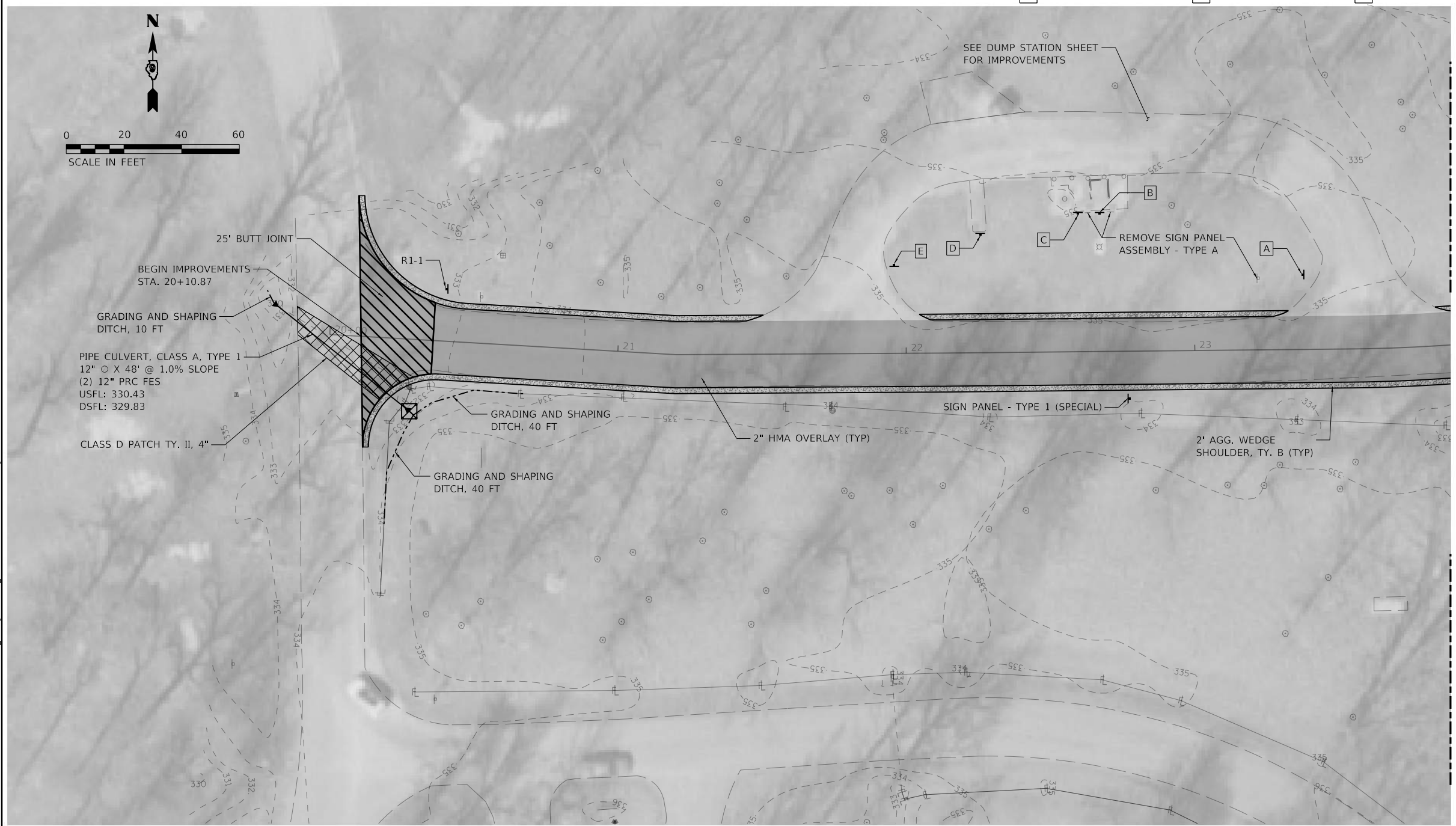
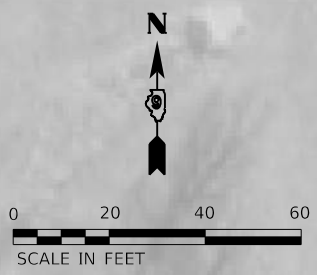


SIGN D



SIGN E

**DUMP STATION SIGN MOUNTING DETAIL**



MATCH LINE SEE VIEW #2

MATCH LINE SEE VIEW #3

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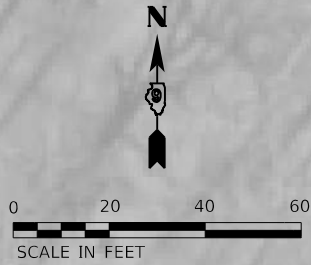
**Farnsworth GROUP**  
 2211 BRADLEY AVENUE  
 CHAMPAIGN, ILLINOIS 61821  
 (217) 352-7408 / info@f-w.com

USER NAME = jgrimm	DESIGNED - JGG	REVISED
	DRAWN - RJT	REVISED
PLOT SCALE = 2.00' / in.	CHECKED - RPU	REVISED
PLOT DATE = 6/8/2020	DATE - 06/05/2020	REVISED

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

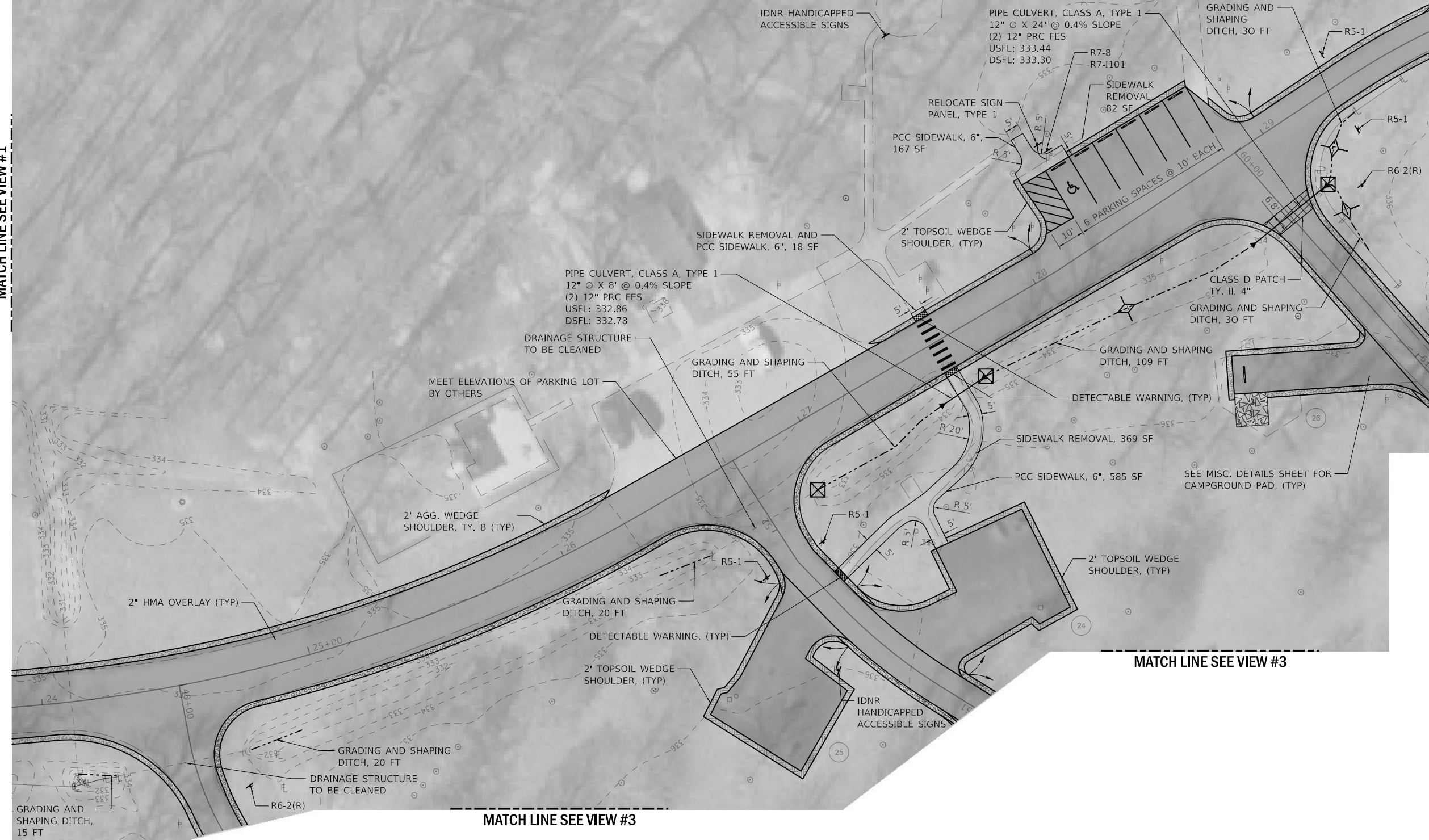
**CAMPGROUND - VIEW #1  
 FORT MASSAC STATE PARK**  
 SCALE: AS NOTED SHEET 1 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
***	MASSAC CAMPGROUND 2020	MASSAC	32	17
CONTRACT NO.			46922	
ILLINOIS		FED. AID PROJECT		



MATCH LINE SEE VIEW #1

MATCH LINE SEE VIEW #4



MATCH LINE SEE VIEW #3

MATCH LINE SEE VIEW #3

018017715\_Standard Project Plan.tbl  
 PEN TABLE: 018017715\_Standard Project Plan.tbl  
 DRIVER: JGG  
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**Farnsworth GROUP**  
 2211 BRADLEY AVENUE  
 CHAMPAIGN, ILLINOIS 61821  
 (217) 352-7408 / info@f-w.com

USER NAME = jgr/mmm	DESIGNED - JGG	REVISED
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PLOT DATE = 6/8/2020	CHECKED - RPU	REVISED
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>CAMPGROUND - VIEW #2</b>		F.A. -	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		***	MASSAC CAMPGROUND 2020	MASSAC	32	18
				CONTRACT NO. 46922		
SCALE: AS NOTED	SHEET 2 OF 5 SHEETS	STA.	TO STA.			

ILLINOIS	FED. AID PROJECT
----------	------------------

MATCH LINE SEE VIEW #1

MATCH LINE SEE VIEW #2

MATCH LINE SEE VIEW #4

MATCH LINE SEE VIEW #2

MATCH LINE SEE VIEW #5

PAVEMENT WIDENING:  
HMA SURFACE COURSE, 1 1/4"  
HMA BINDER COURSE, 1 1/4"  
AGG. BASE COURSE, TY. B, 8"  
(HMA 1 1/4" SURFACE COURSE  
TO BE PLACED DURING MAINLINE  
ROADWAY PAVING OPERATION)

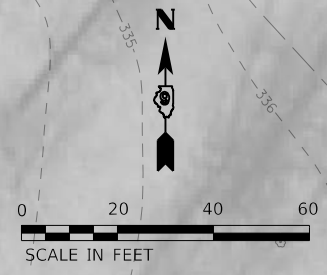
SEE MISC. DETAILS SHEET FOR  
CAMPGROUND PAD, (TYP)

SEE TYPICAL FOR CAMPGROUND  
CAMPSITES WIDENING, (TYP)

2" HMA OVERLAY (TYP)

2" AGG. SURFACE COURSE  
TYPE B, (TYP)

2' AGG. WEDGE  
SHOULDER, TY. B (TYP)



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**Farnsworth GROUP**  
2211 BRADLEY AVENUE  
CHAMPAIGN, ILLINOIS 61821  
(217) 352-7408 / info@f-w.com

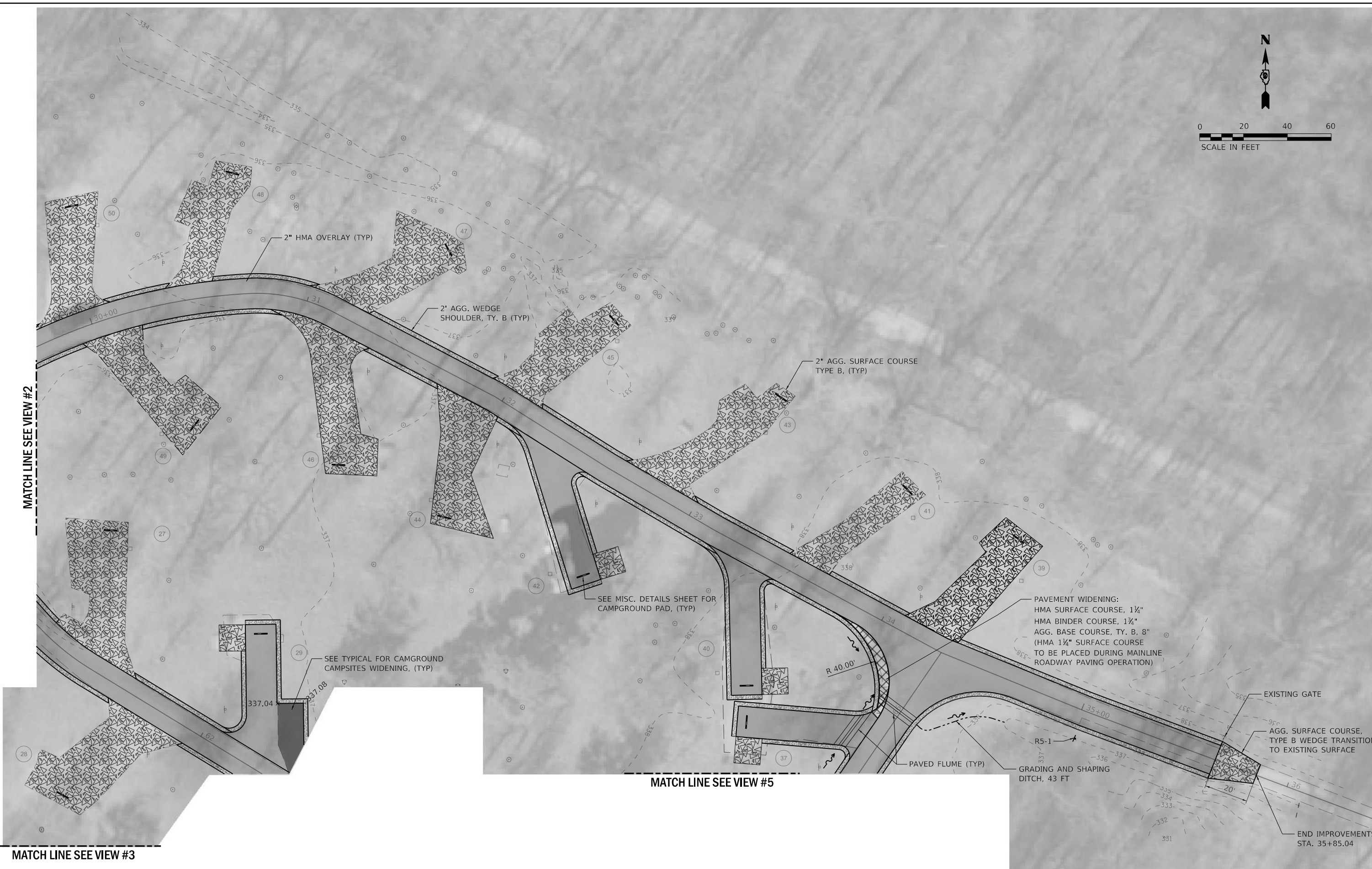
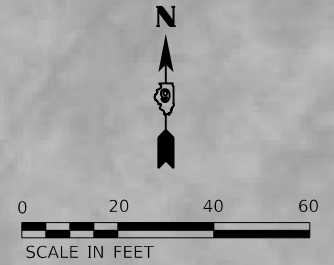
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CAMPGROUND - VIEW #3  
FORT MASSAC STATE PARK

SCALE: AS NOTED SHEET 3 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
***	MASSAC CAMPGROUND 2020	MASSAC	32	19
			CONTRACT NO. 46922	
			ILLINOIS FED. AID PROJECT	



MATCH LINE SEE VIEW #2

MATCH LINE SEE VIEW #5

MATCH LINE SEE VIEW #3

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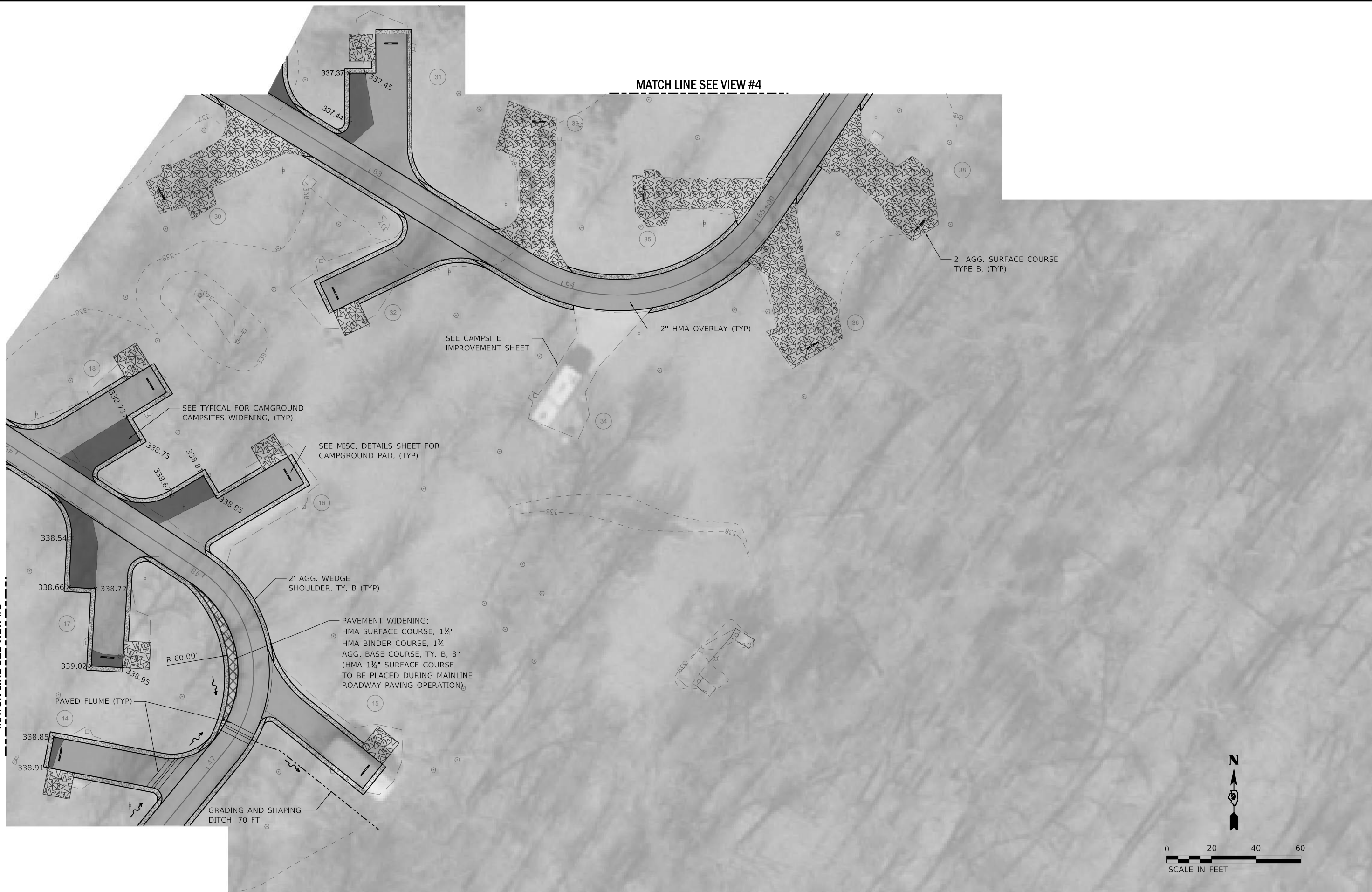
**Farnsworth GROUP**  
 2211 BRADLEY AVENUE  
 CHAMPAIGN, ILLINOIS 61821  
 (217) 352-7408 / info@f-w.com

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DRAWN - RJT	REVISIONS	
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PLOT DATE = 6/8/2020	DATE - 06/05/2020	REVISED

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>CAMPGROUND - VIEW #4</b>	
<b>FORT MASSAC STATE PARK</b>	
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STA.	TO STA.

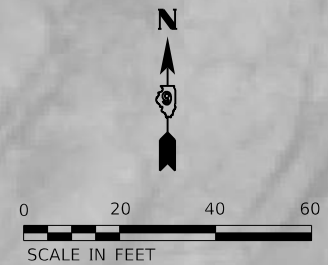
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CONTRACT NO. 46922				
ILLINOIS		FED. AID PROJECT		



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MATCH LINE SEE VIEW #3

MATCH LINE SEE VIEW #4



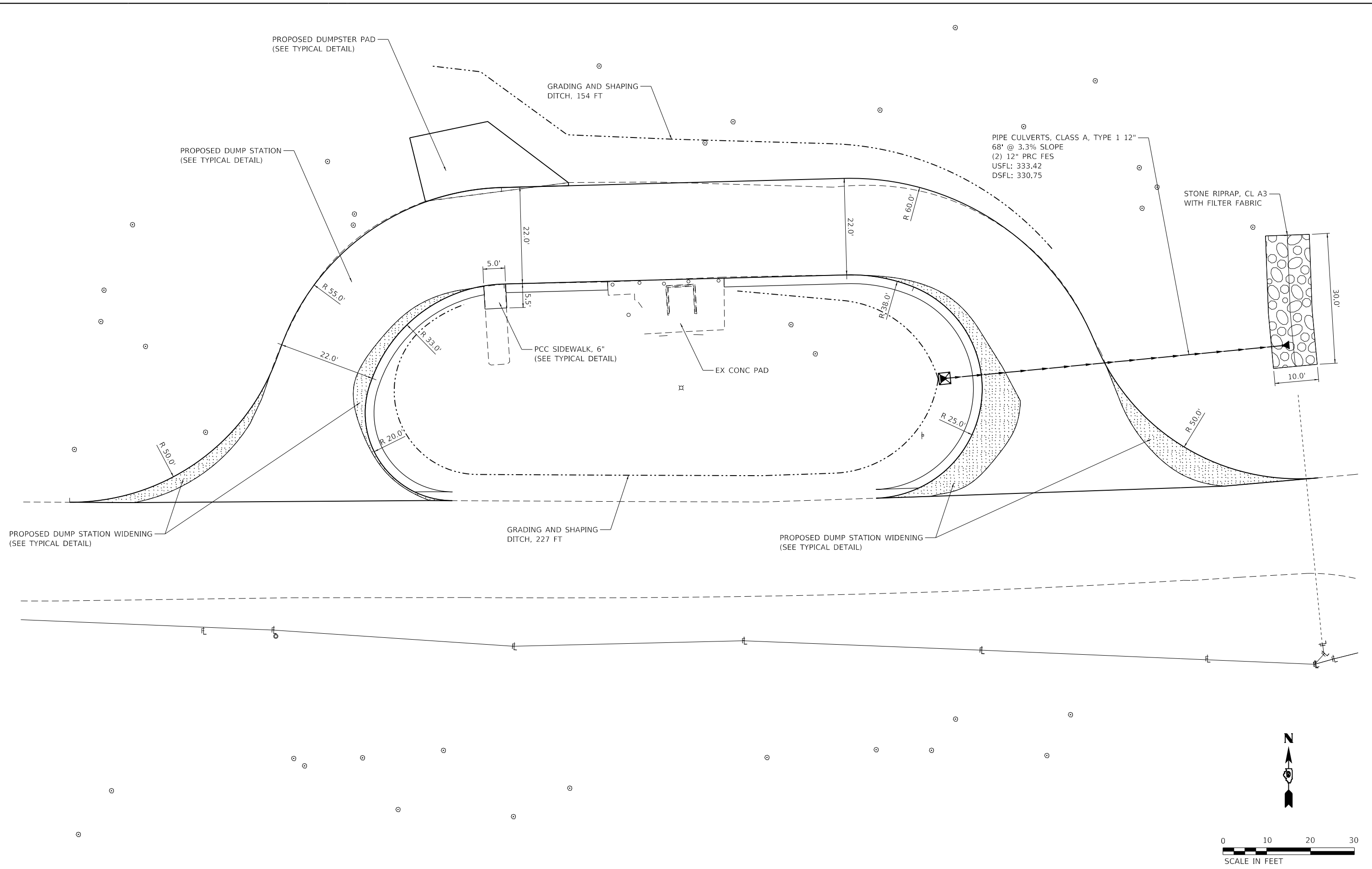
**Farnsworth GROUP**  
 2211 BRADLEY AVENUE  
 CHAMPAIGN, ILLINOIS 61821  
 (217) 352-7408 / info@fw.com

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

<b>CAMPGROUND - VIEW #5</b>	
<b>FORT MASSAC STATE PARK</b>	
SCALE: AS NOTED	TO STA.
SHEET 5 OF 5 SHEETS	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		ILLINOIS	FED. AID PROJECT	



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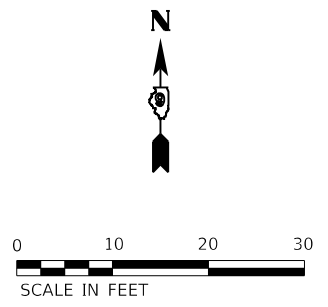
**Kaskaskia**  
 Engineering Group, LLC  
 208 E. Main St., Suite 200  
 Moline, IL 61704  
 617.233.2877  
 617.233.2977  
 www.kaskaskiaeng.com  
 11/27/2019  
 20-086566

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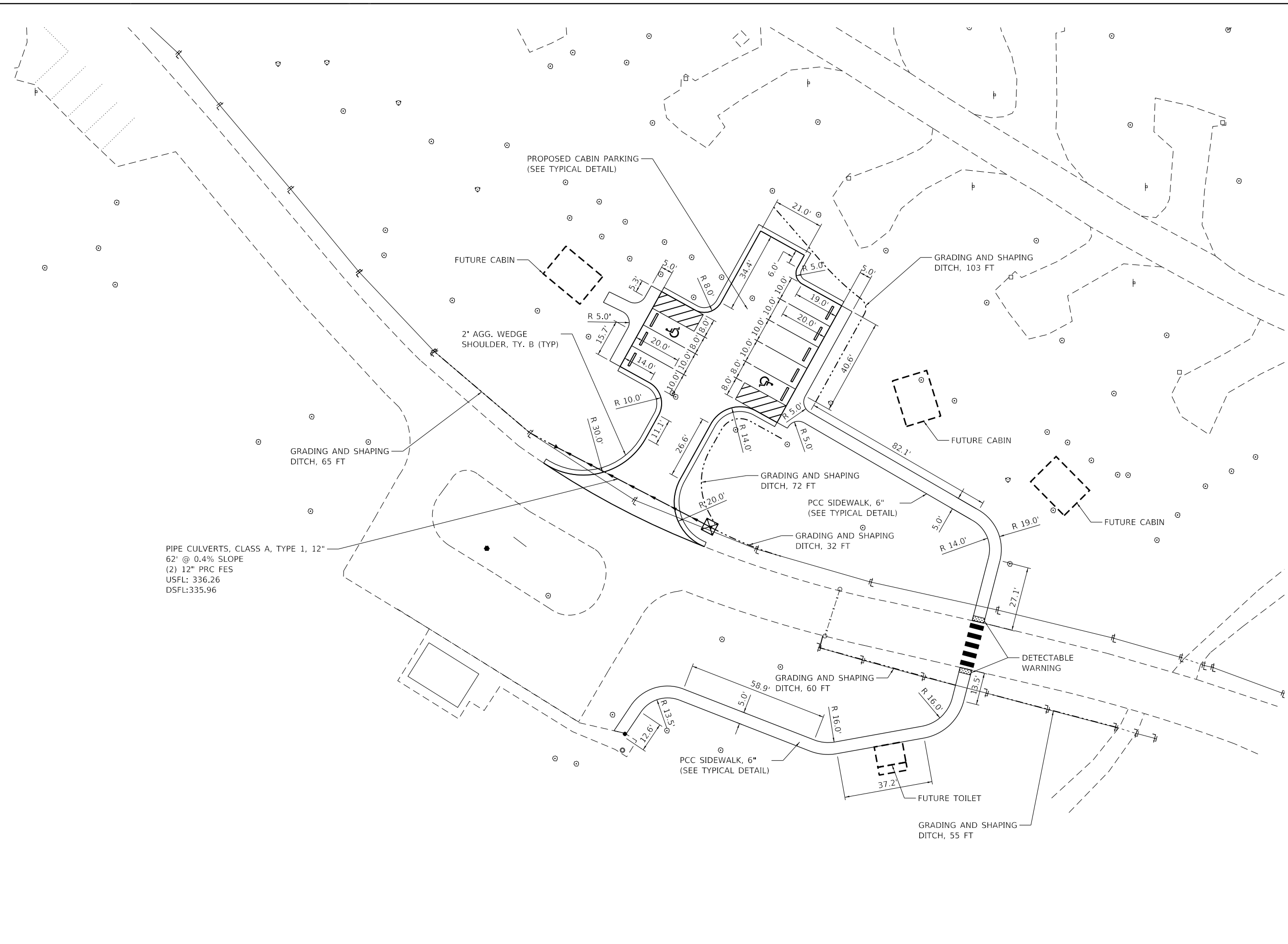
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>DUMP STATION IMPROVEMENTS</b> <b>FORT MASSAC STATE PARK</b>		
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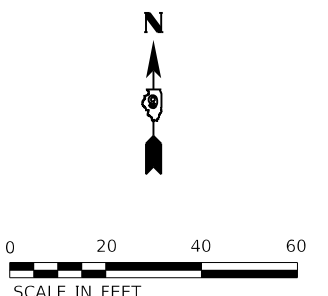
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		ILLINOIS	FED. AID PROJECT	



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PIPE CULVERTS, CLASS A, TYPE 1, 12"  
 62' @ 0.4% SLOPE  
 (2) 12" PRC FES  
 USFL: 336.26  
 DSFL: 335.96



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 288 E. Main St., Suite 200  
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 309.233.2977  
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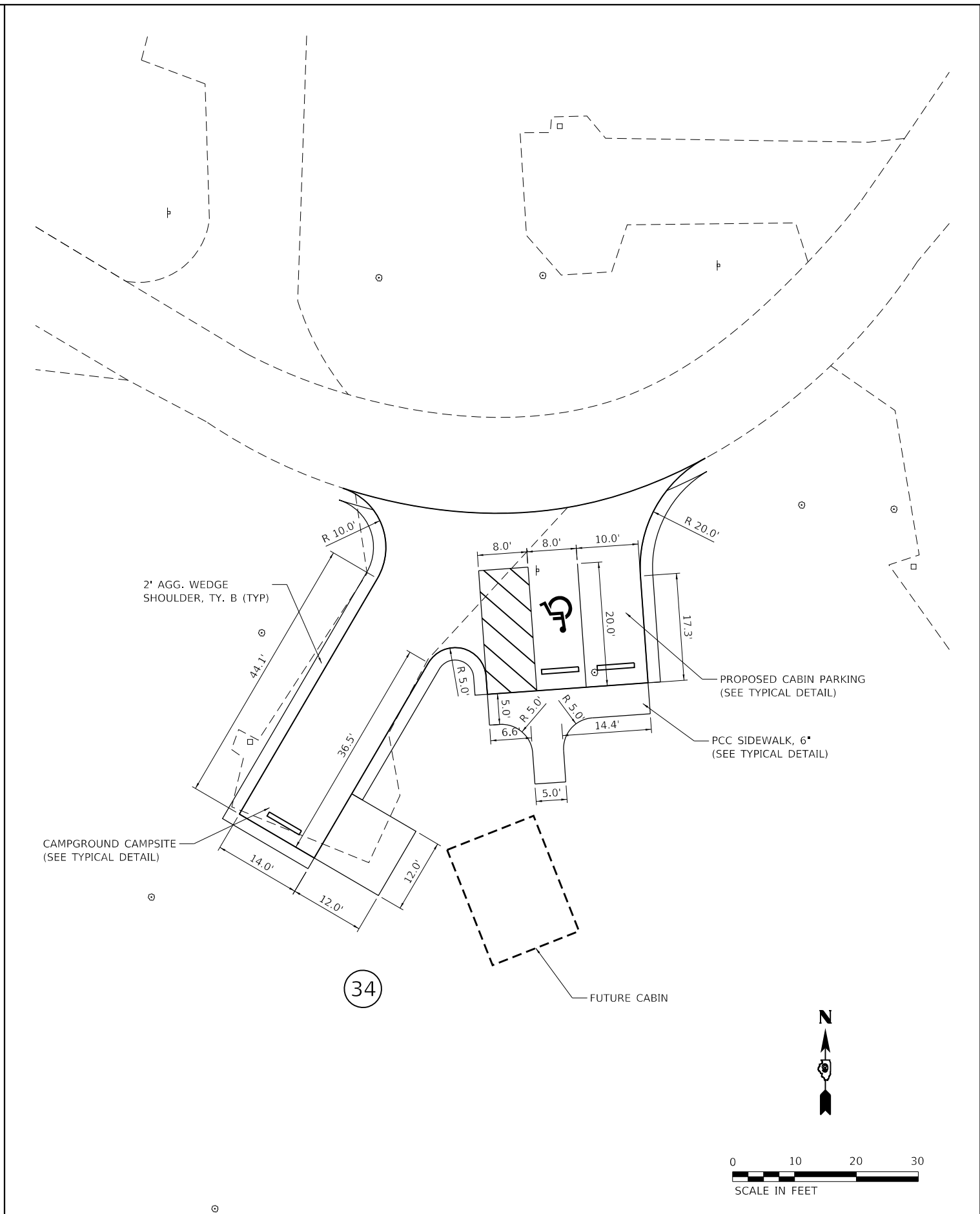
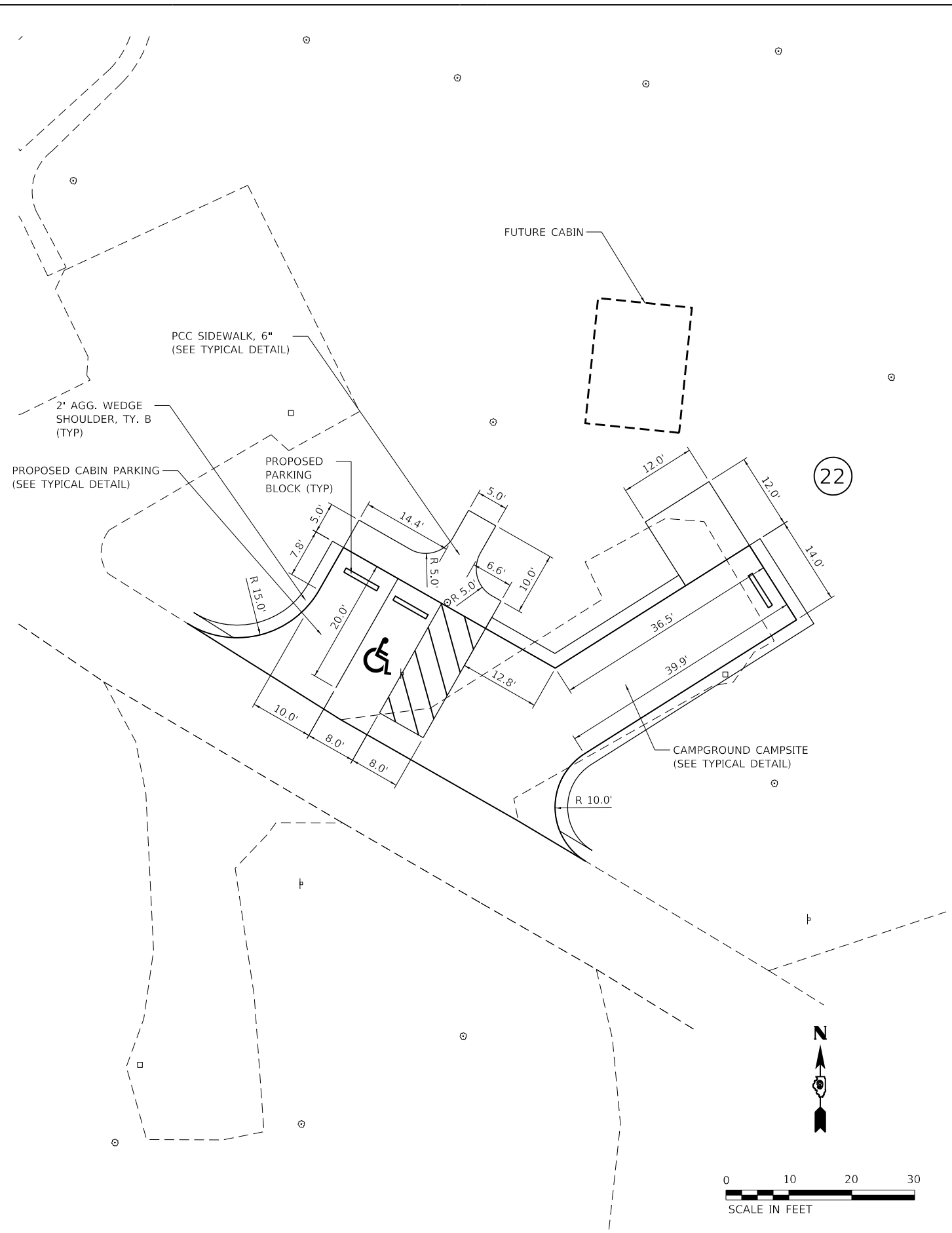
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>PROPOSED CABIN PARKING</b> <b>FORT MASSAC STATE PARK</b>		
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 46922				
ILLINOIS		FED. AID PROJECT		

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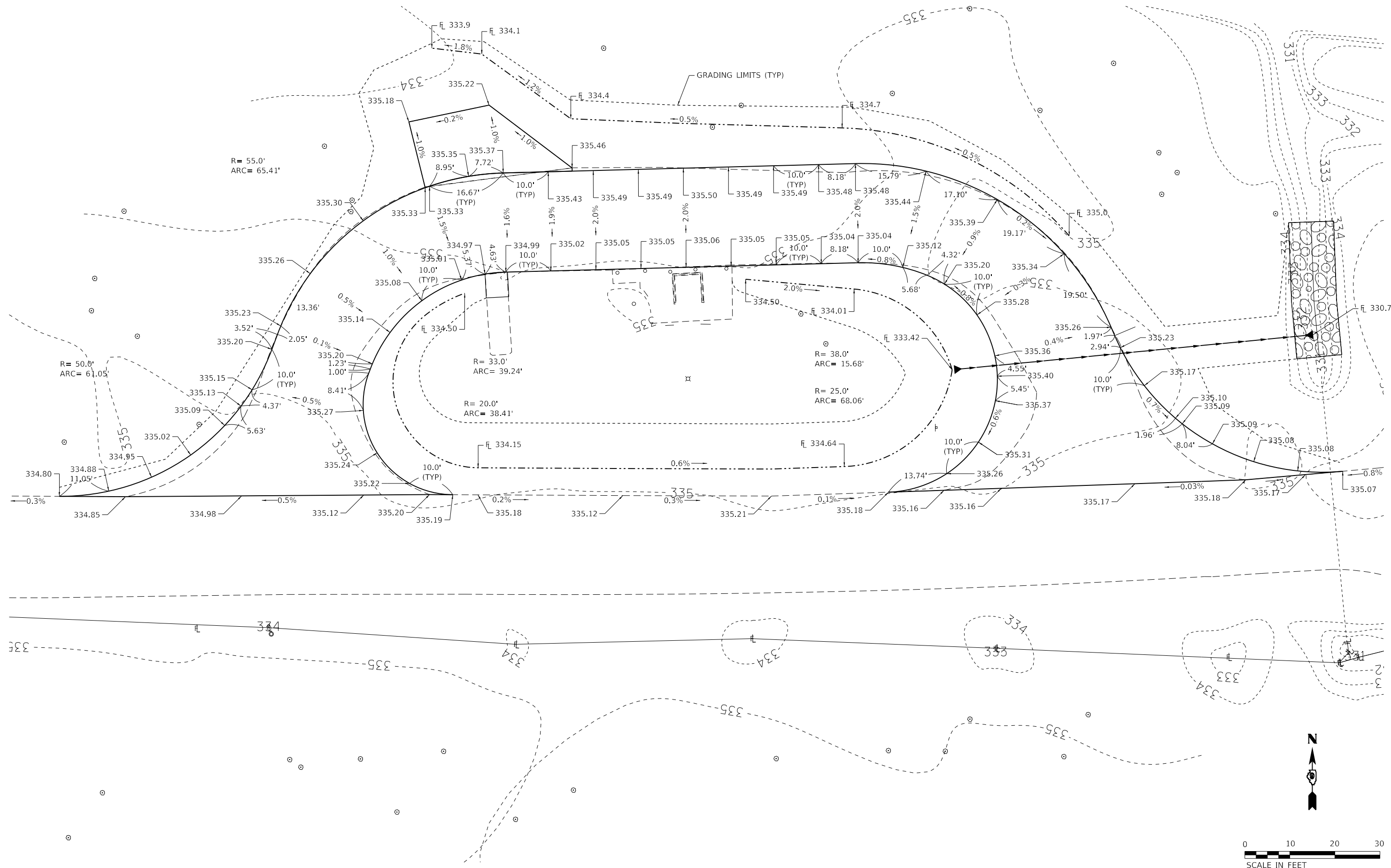
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>CAMPSITE IMPROVEMENTS</b>	
<b>FORT MASSAC STATE PARK</b>	
SCALE: 1"=10'	SHEET 3 OF 3 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 46922				
ILLINOIS		FED. AID PROJECT		





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 DATE - 04/24/2020  
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 REVISED

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 Engineering Group, LLC  
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 www.kaskaskiaeng.com

DESIGNED - RJO	REVISED
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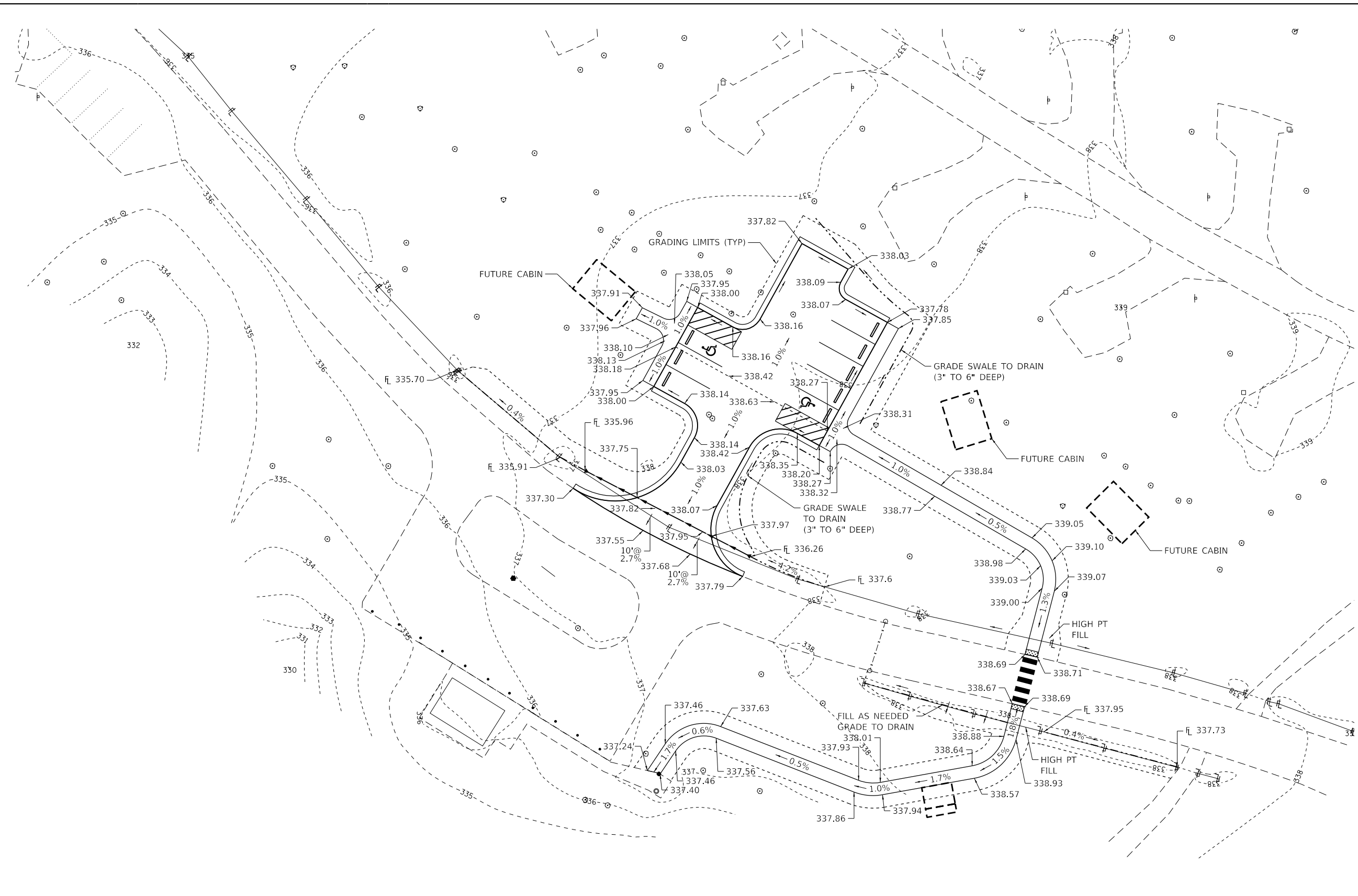
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DUMP STATION IMPROVEMENTS - GRADING PLAN**  
**FORT MASSAC STATE PARK**

SCALE: 1"=10' SHEET 1 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 46922				
ILLINOIS		FED. AID PROJECT		

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 288 E. Main St., Suite 200  
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 11/27/2016  
 Illinois Professional Design Firm  
 Professional Engineering Group  
 01-000011  
 20-000006

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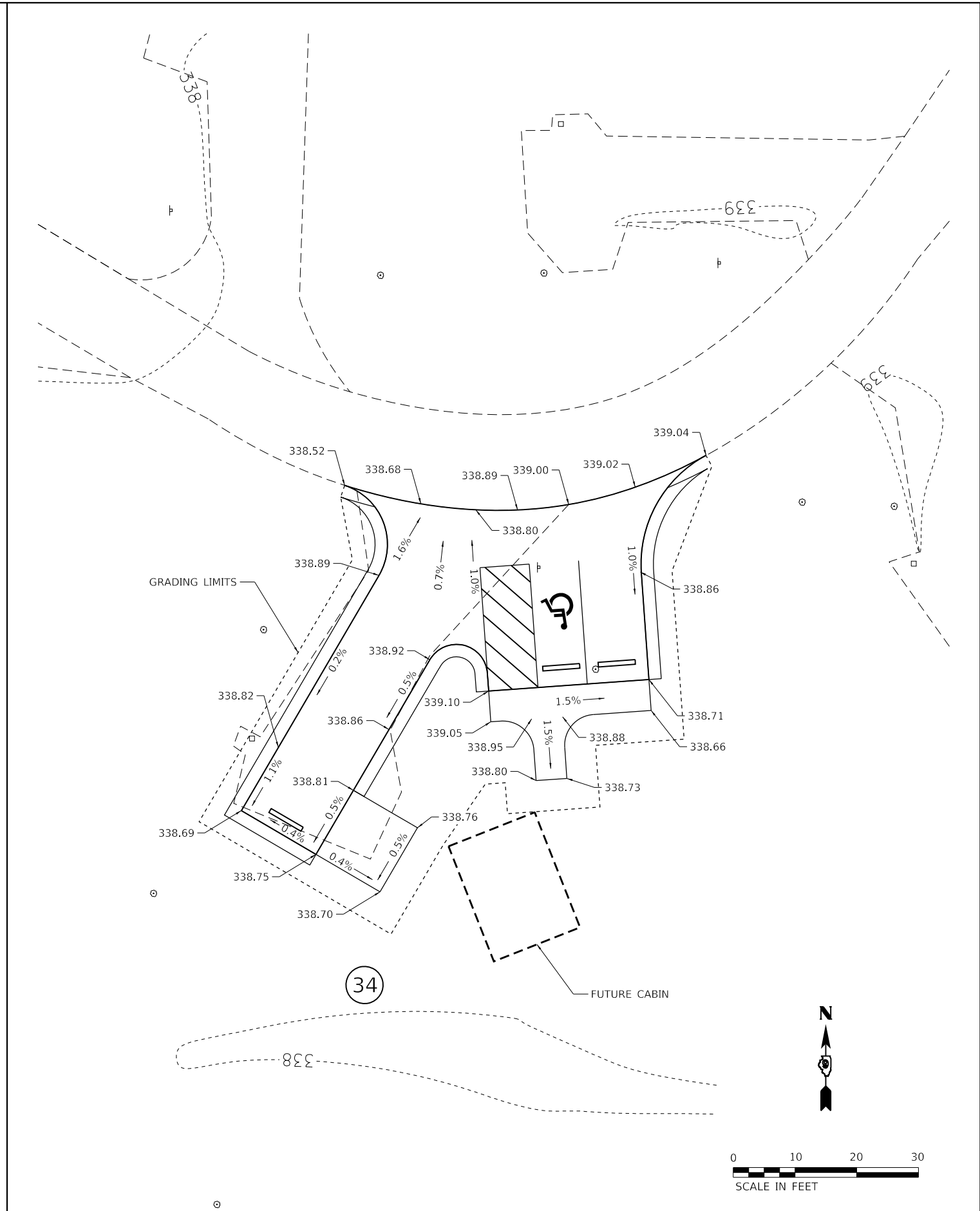
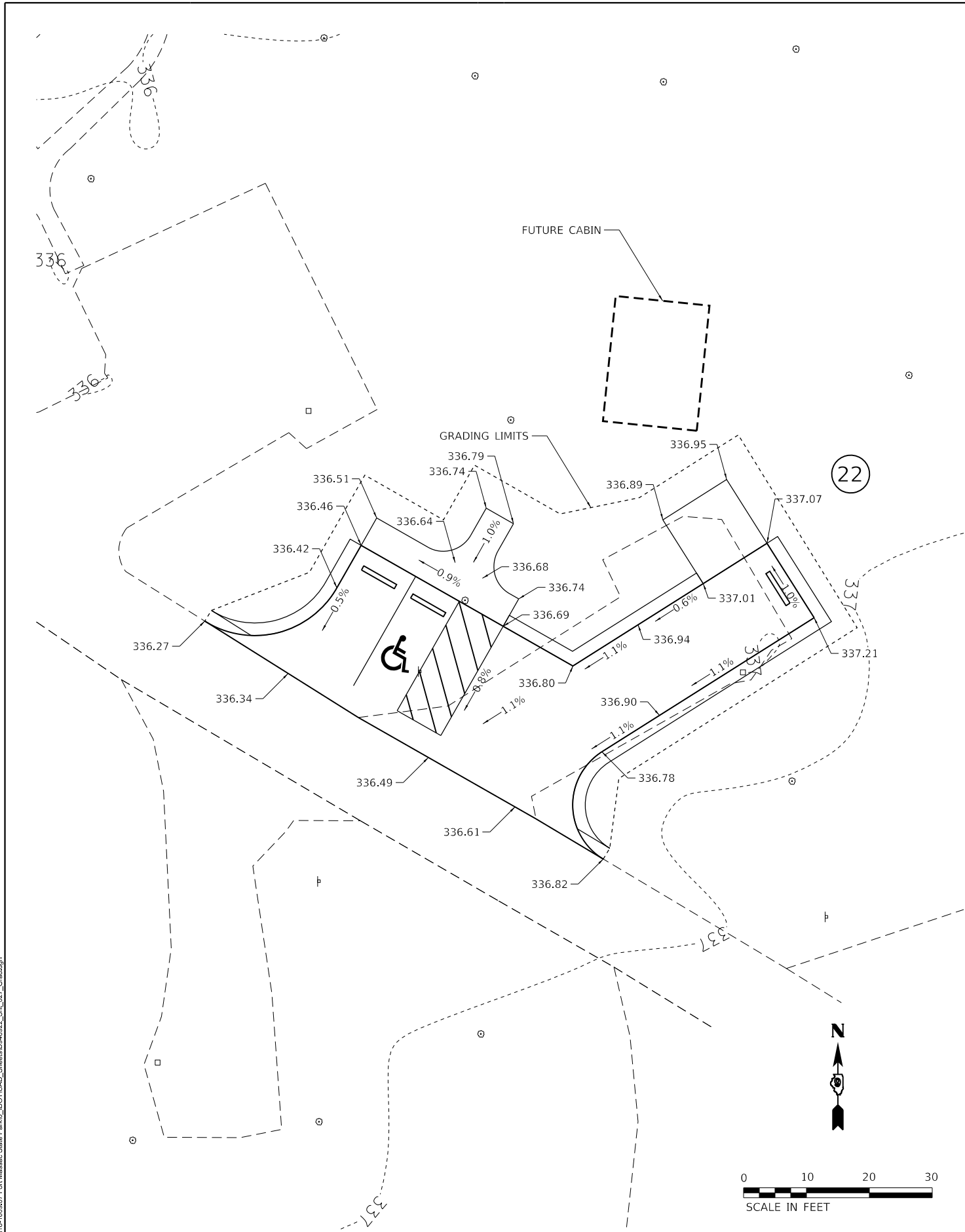
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED CABIN PARKING - GRADING PLAN  
 FORT MASSAC STATE PARK**

SCALE: 1"=20' SHEET 2 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		ILLINOIS	FED. AID PROJECT	

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**Kaskaskia**  
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Professional Engineering Firm  
 268 E. Main St., Suite 900  
 Peoria, IL 61614  
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 309.252.2877 fax  
 www.kaskaskiaeng.com

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

**CAMPSITE IMPROVEMENTS - GRADING PLAN**  
**FORT MASSAC STATE PARK**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
***	MASSAC CAMPGROUND 2020	MASSAC	32	27
			CONTRACT NO.	46922
		ILLINOIS	FED. AID PROJECT	

SCALE:	1"=10'	SHEET	3 OF 3 SHEETS	STA.	TO STA.
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# ELECTRICAL GENERAL NOTES

1. PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT TO FURNISH AND INSTALL THE ELECTRICAL WORK AS SHOWN ON THE PLANS, AS DETAILED IN THE SPECIFICATIONS, AS REQUIRED BY THE NATIONAL ELECTRICAL CODE AND AS REQUIRED FOR SPECIFIED OPERATION. CONTRACTOR SHALL EMPLOY ONLY EXPERIENCED ELECTRICIANS. A DULY LICENSED ELECTRICIAN SHALL SUPERVISE ALL WORK. CONTRACTOR SHALL ENSURE THAT ALL EMPLOYEES ARE FAMILIAR WITH THE TYPE OF WORK ENCOUNTERED ON THE PROJECT. ALL MATERIALS AND EQUIPMENT PROVIDED, WHERE APPLICABLE, SHALL HAVE A UL OR FM "LISTING MARK" AFFIXED TO THEM OR THEIR PACKING CONTAINERS AND THEY SHALL MEET ALL UL OR FM AND NEC (NATIONAL ELECTRICAL CODE) STANDARDS FOR THEIR INDICATED USE.

2. WHEREVER THE TERM "STANDARD SPECIFICATIONS" IS USED, IT SHALL MEAN "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2016 EDITION BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION."

3. FIELD LOCATING OF UTILITIES:

UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE FROM AS-BUILT RECORDS AND MAY OR MAY NOT BE ACCURATE OR COMPLETE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION AND SHALL PROTECT ALL UTILITY FACILITIES FROM DAMAGE AND DISRUPTION. THE CONTRACTOR SHALL REPAIR AND RESTORE ANY UTILITIES DAMAGED OR DISRUPTED DURING CONSTRUCTION OPERATIONS TO THE SATISFACTION OF THE UTILITY OWNER AT CONTRACTOR'S OWN EXPENSE.

PRIOR TO HORIZONTAL DIRECTIONAL DRILLING ACTIVITIES, THE CONTRACTOR SHALL PHYSICALLY LOCATE ALL UTILITIES IN THE AFFECTED AREA, REGARDLESS OF THE OWNERSHIP OF THE UTILITY. JULIE LOCATING ALONE IS NOT SUFFICIENT. METHODS THE CONTRACTOR SHALL USE INCLUDE HAND DIGGING, VACUUM POTHOLING, PROBING, ELECTRONIC LOCATING USING CONTRACTOR'S OWN EQUIPMENT, VISUAL SURVEY OF NEARBY FACILITIES (MANHOLES, INLETS, STREET BOXES, HYDRANTS AND THE LIKE), IN SHORT: ANY METHOD DEEMED BY THE CONTRACTOR TO BE SUFFICIENT TO PREVENT ANY DAMAGE OR DISRUPTION TO EXISTING UTILITIES. FIELD LOCATING OF UTILITIES SHALL BE INCLUDED WITH THE ASSOCIATED PAY ITEM.

4. DETERMINING HANDHOLE LOCATIONS.

THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES AT HANDHOLE LOCATIONS, ACCORDING TO GENERAL NOTE 3. AFTER UTILITIES HAVE BEEN LOCATED, DETERMINE POSSIBLE LOCATIONS THAT WILL PLACE HANDHOLE AS CLOSE TO THE PLAN LOCATION AS POSSIBLE. CONFIRM HANDHOLE PLACEMENTS WITH THE OWNER IN THE FIELD PRIOR TO INSTALLATION. HANDHOLES SHALL BE INSTALLED IN UNPAVED (GRASS) AREAS UNLESS THERE IS NO OTHER OPTION. IN SUCH CASES, UPON APPROVAL BY THE OWNER, INSTALL HANDHOLE IN THE PAVING, PAVING REMOVAL AND REPLACEMENT PAID FOR AT THE ASSOCIATED PAY ITEM UNIT COST. DETERMINING HANDHOLE LOCATIONS SHALL BE INCLUDED WITH THE ASSOCIATED PAY ITEM.

5. DETERMINING UNDERGROUND RACEWAY LOCATIONS

RACEWAY LOCATIONS SHOWN IN THE PLANS ARE DIAGRAMMATIC IN NATURE AND SHALL BE VARIED AS NEEDED TO SUIT FIELD CONDITIONS ENCOUNTERED. LOCATE ALL UNDERGROUND UTILITIES ACCORDING TO GENERAL NOTE 3 ALONG THE ROUTE OF THE UNDERGROUND RACEWAY PRIOR TO INSTALLATION. AFTER UTILITIES HAVE BEEN LOCATED, DETERMINE POSSIBLE ROUTES THAT WILL PLACE RACEWAYS AS CLOSE TO THE PLAN LOCATION AS POSSIBLE. CONFIRM RACEWAY ROUTES WITH THE OWNER IN THE FIELD PRIOR TO INSTALLATION. DETERMINING UNDERGROUND RACEWAY LOCATIONS SHALL BE INCLUDED WITH THE ASSOCIATED PAY ITEM.

6. REPAIR OF DAMAGE.

PROVIDE REPAIRS TO ANY PUBLIC OR PRIVATE PROPERTY, INCLUDING UTILITIES WHICH ARE DAMAGED OR DISTURBED BY CONSTRUCTION OPERATIONS. REPAIRS SHALL BE PROVIDED AT CONTRACTOR'S OWN EXPENSE. WHERE UTILITY LINES, UNDERGROUND OBSTRUCTIONS OR PIPING MAY BE UNCOVERED BY CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL NOTIFY THE OWNER OF THE UTILITY AND TAKE ALL NECESSARY MEASURES TO PREVENT INTERRUPTION OF SERVICES THAT MAY BE DAMAGED OR INTERRUPTED THROUGH CONTRACTOR'S OPERATIONS AND PROVIDE IMMEDIATE REPAIR AND/OR RESTORATION AT THE CONTRACTOR'S OWN EXPENSE.

7. CONDUIT SHALL BE INSTALLED AT A MINIMUM DEPTH OF 24", USING TRENCHING METHODS. BACKFILL SHALL BE ACCORDING TO THE STANDARD SPECIFICATIONS.

8. ALL UNDERGROUND CIRCUIT WIRING SHALL BE XLP-USE STRANDED COPPER ACCORDING TO STANDARD SPECIFICATION 1066.03. CABLE INSULATION SHALL BE SOLID COLOR-CODED RED, BLUE, WHITE OR GREEN ACCORDING TO USE. COLOR TAPE ON BLACK COLOR INSULATION IS NOT ALLOWED.

9. CONDUCTORS AT ALL TERMINATIONS AND IN JUNCTION BOXES AND HANDHOLES SHALL BE MARKED TO INDICATE SOURCE PANEL, CIRCUIT NUMBER AND BRANCH LETTER. WIRING MARKERS SHALL BE CLIP-ON STYLE ACCORDING TO STANDARD SPECIFICATION 1066.07 (b). BUNDLE CONDUCTORS OF THE SAME BRANCH WITH WIRE TIES IN ALL JUNCTION BOXES AND HANDHOLES.





10. CONDUCTOR SPLICES SHALL BE COMPRESSION TYPE ACCORDING TO STANDARD SPECIFICATION 1066(c)(2) WITH WATERPROOF HEAT SHRINK COVER. SPLICES SHALL BE MADE WATERPROOF WITH HEAT SHRINK CAPPED SPLICE ACCORDING TO STANDARD SPECIFICATION 1066.06 (b).

11. INSTALL LIGHT POLES PLUMB AND TRUE. HANDLE LIGHTING FIXTURES CAREFULLY TO PREVENT BREAKAGE, AND DAMAGE. DO NOT INSTALL DAMAGED LIGHTING FIXTURES. REPLACE AND RETURN DAMAGED UNITS TO EQUIPMENT MANUFACTURER.

TOTAL BILL OF MATERIALS			
PAY CODE	DESCRIPTION	UNIT	TOTAL QUANTITY
81028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	448
81400730	HANDHOLE, COMPOSITE CONCRETE	EACH	1
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE), 1/C NO. 10	FOOT	1,398
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	18
84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	1
	LIGHTING UNIT (SPECIAL)	EACH	3

LUMINAIRE SCHEDULE			
LUMINAIRE TYPE:	TYPE A	TYPE A	TYPE A
LUMINAIRE DESCRIPTION:	LED ROADWAY COBRAHEAD	LED ROADWAY COBRAHEAD	LED ROADWAY COBRAHEAD
MANUFACTURER	Eaton/Cooper	CREE LIGHTING	AMERICAN ELECTRIC LIGHTING
CATALOG NUMBER:	ARCH-AF 16-50-U-5WQ-7030-4-BK	TRVSM-A-HT-5ME-5L-30K7-UL-BK	ATBS-P10-MVOLT-R5-3K-BK
PRODUCT NAME:	Archeon Small LED	TRAVEY O SERIES SMALL	AUTOBAHN SERIES ATBS
PHOTOMETRIC FILE NAME:	ARCH-AF 16-50-D-U-5WQ-7030.ies	TRVSM-A-HT-5ME-5L-30K7-UL-XX-N_CONFIGURED.ies	ATBS_P10_XXXXX_R5_3K.ies
LIGHT SOURCE TYPE:	LIGHT EMITTING DIODE	LIGHT EMITTING DIODE	LIGHT EMITTING DIODE
LUMINAIRE WATTAGE:	53 W	40 W	40 W
CORRELATED COLOR TEMPERATURE:	3000K	3000K	3000K
COLOR RENDERING INDEX (CRI):	70	70	70
TOTAL LIGHT LOSS FACTOR:	0.9	0.9	0.9
ABSOLUTE LUMENS (INITIAL):	5,892 LUMENS	5,350 LUMENS	5,576 LUMENS
IES DISTRIBUTION:	TYPE 5	TYPE 5	TYPE 5
LUMINAIRE TILT:	NONE	NONE	NONE
LUMINAIRE ROLL:	LEVEL	LEVEL	LEVEL
NOTE: PROVIDE PHOTOCCELL CONTROL			

## ELECTRICAL LEGEND

-  PROPOSED LIGHTING ASSEMBLY
-  LIGHTING BURIED CONDUIT AND CONDUCTOR (1" PVC WITH 2-#10, 1-#10G)
-  EXISTING LIGHT TO BE REMOVED
-  PROPOSED HANDHOLE

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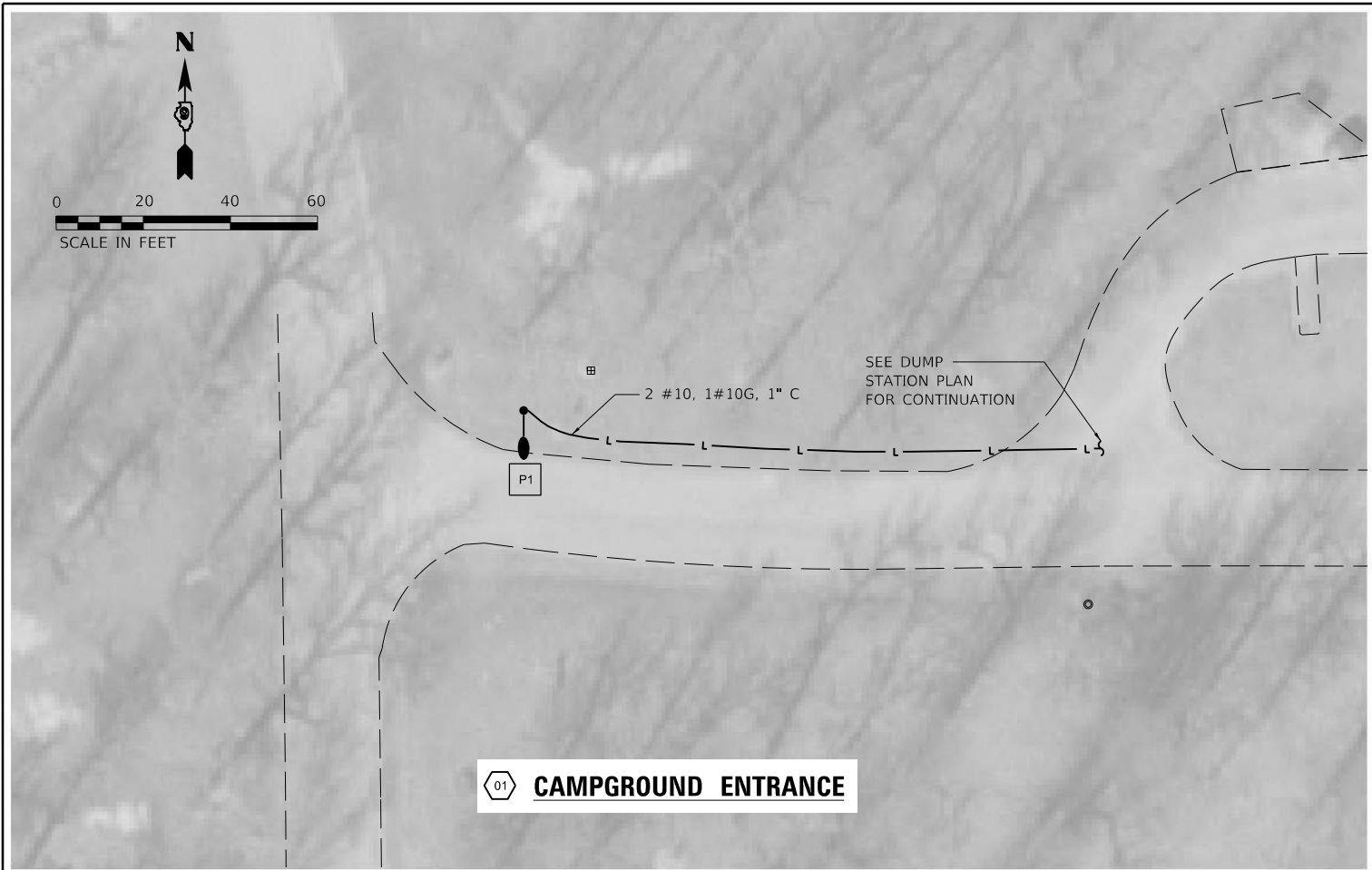


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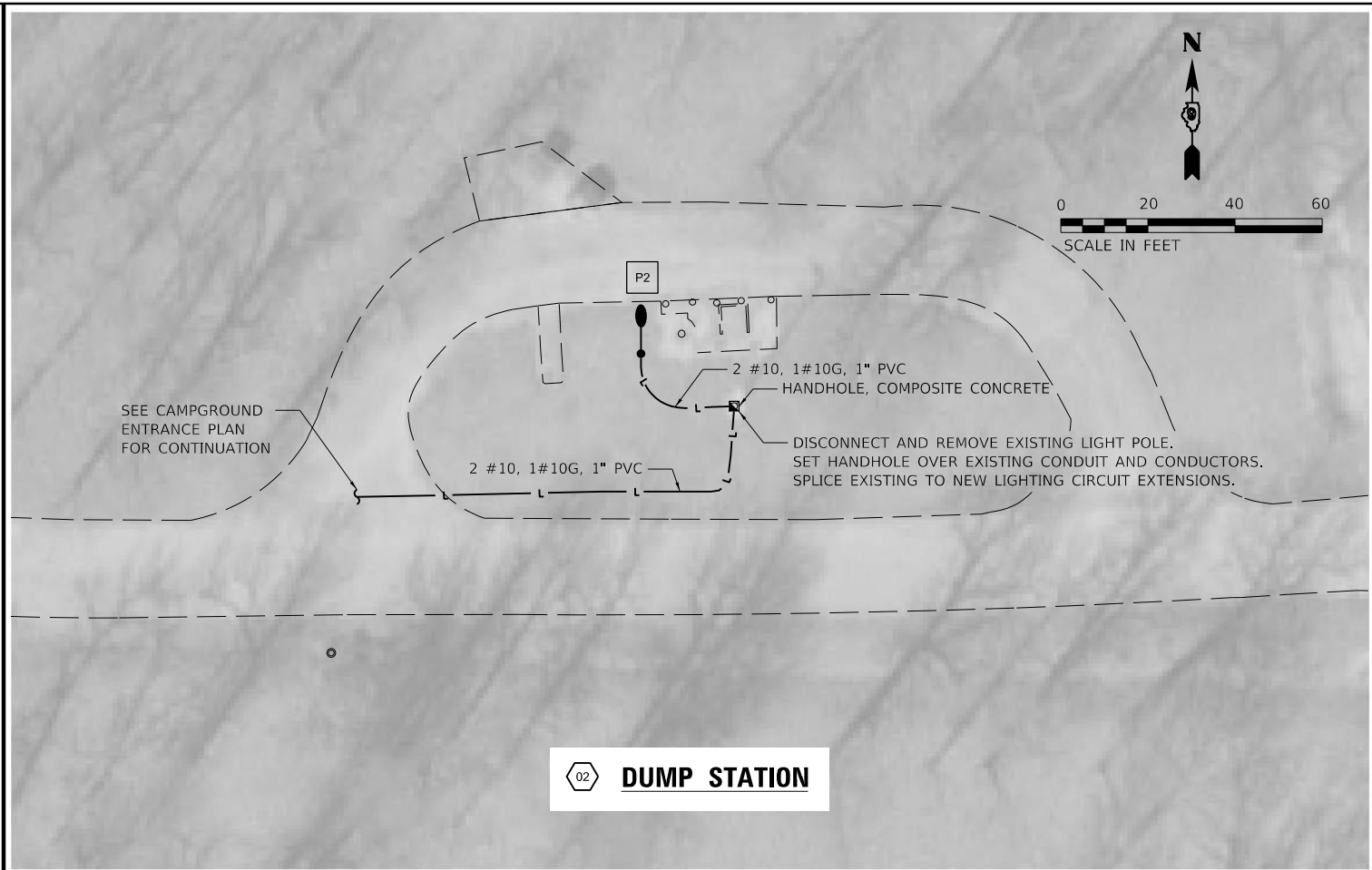
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ELECTRICAL GENERAL NOTES, BILL OF MATERIAL & LEGEND	
FORT MASSAC STATE PARK	
SCALE: NONE	SHEET 1 OF 3 SHEETS STA. TO STA.

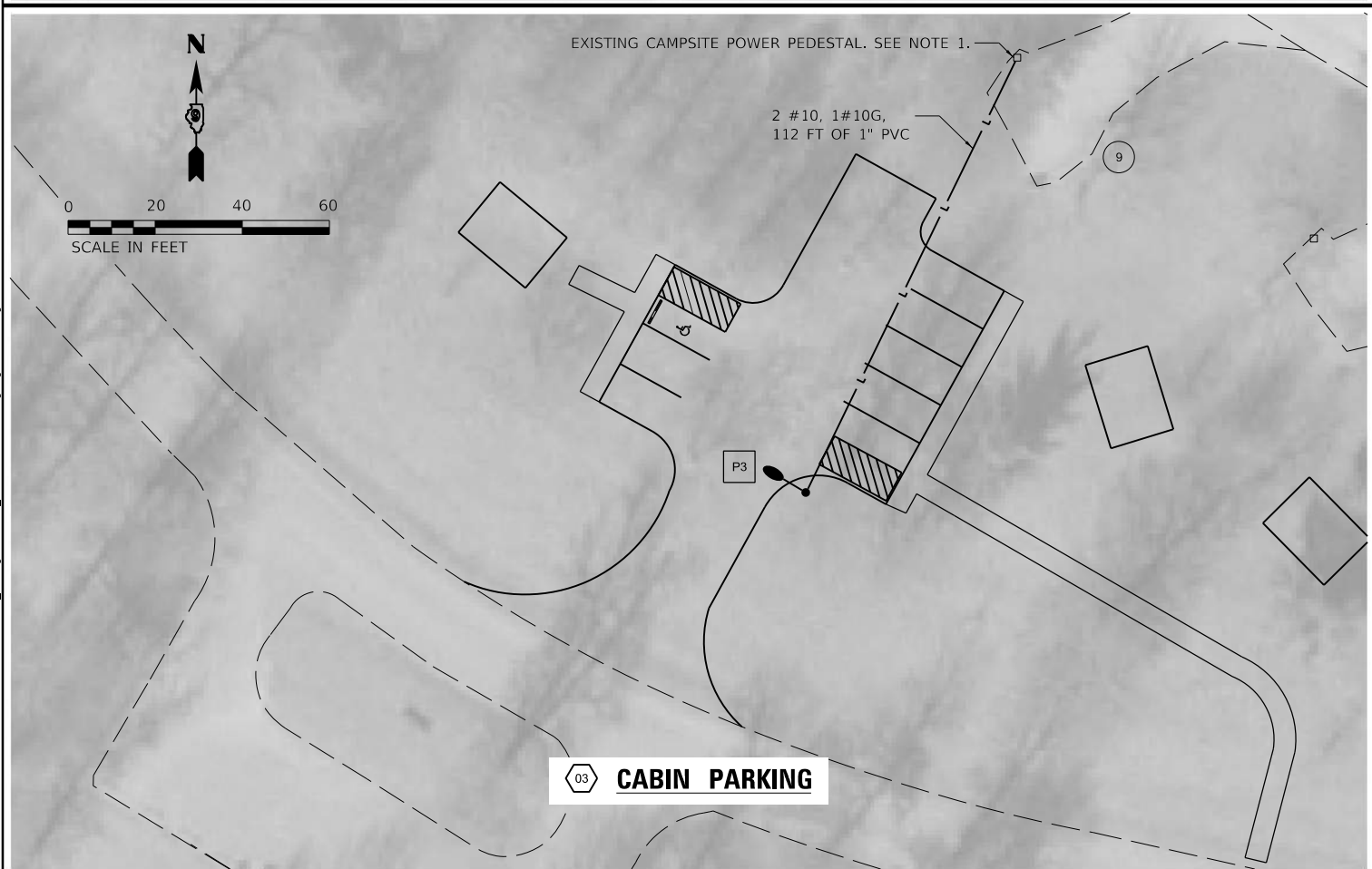
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***	MASSAC CAMPGROUND 2020	MASSAC	32	28
			CONTRACT NO. 46922	
		ILLINOIS	FED. AID PROJECT	



**01 CAMPGROUND ENTRANCE**



**02 DUMP STATION**



**03 CABIN PARKING**

**CABIN PARKING PLAN NOTES:**

1. INSTALL 1 - POLE, 20AMP CIRCUIT BREAKER IN SPACE IN EXISTING BREAKER ASSEMBLY FOR NEW LIGHTING CIRCUIT. CONNECT NEW UNDERGROUND CONDUIT TO EXISTING JUNCTION BOX ON PEDESTAL AND ROUTE CIRCUIT CONDUCTORS FROM UG CONDUIT TO CIRCUIT BREAKER. PROVIDE CIRCUIT BREAKER LOCK-ON CLAMP TO PREVENT ACCIDENTAL SHUT-OFF OF CIRCUIT BREAKER.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

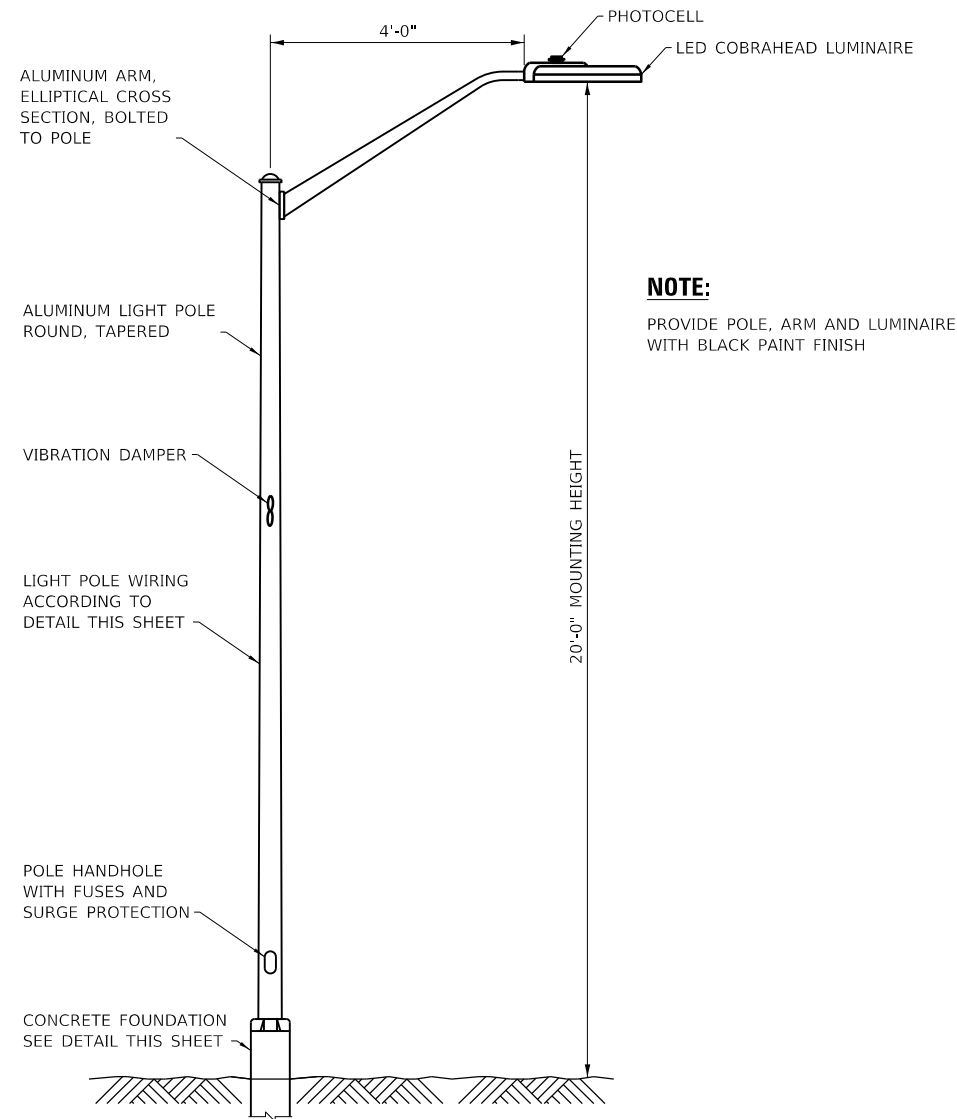
**ELECTRICAL SITE PLANS 01 - 03  
FORT MASSAC STATE PARK**

SCALE: AS NOTED SHEET 2 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
***	MASSAC CAMPGROUND 2020	MASSAC	32	29
			CONTRACT NO. 46922	
		ILLINOIS	FED. AID PROJECT	

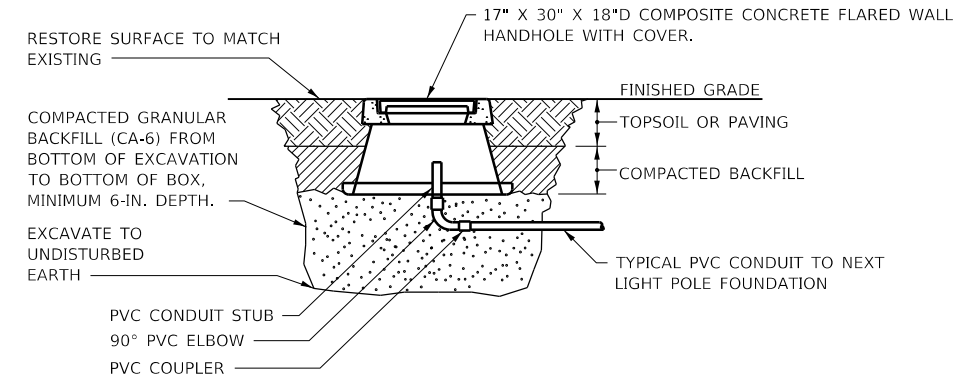
**NOTES:**

1. PROVIDE HANDHOLE ACCORDING TO STANDARD SPECIFICATIONS SECTION 814.
2. INSTALL TOP FLUSH WITH FINISHED GRADE. MATCH SLOPE OF FINISHED GRADE.
3. PROVIDE HANDHOLE COVER WITH LEGEND THAT READS "LIGHTING." COVER AND RIM SHALL BE CONCRETE GRAY COLOR.
4. SEE PLAN SHEETS FOR ACTUAL CONDUITS REQUIRED AT EACH LOCATION.
5. CONDUITS ENTERING HANDHOLE SHALL BE VERTICAL AND PERPENDICULAR TO BOTTOM OF BOX. POSITION CONDUITS NEAR CENTER OF BOX.



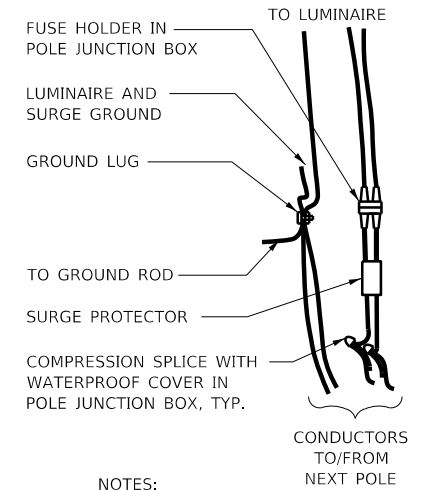
**LIGHTING ASSEMBLY (SPECIAL) INSTALLATION DETAIL (TYPE A)**

N.T.S.



**LIGHTING COMPOSITE CONCRETE HANDHOLE DETAIL**

NO SCALE

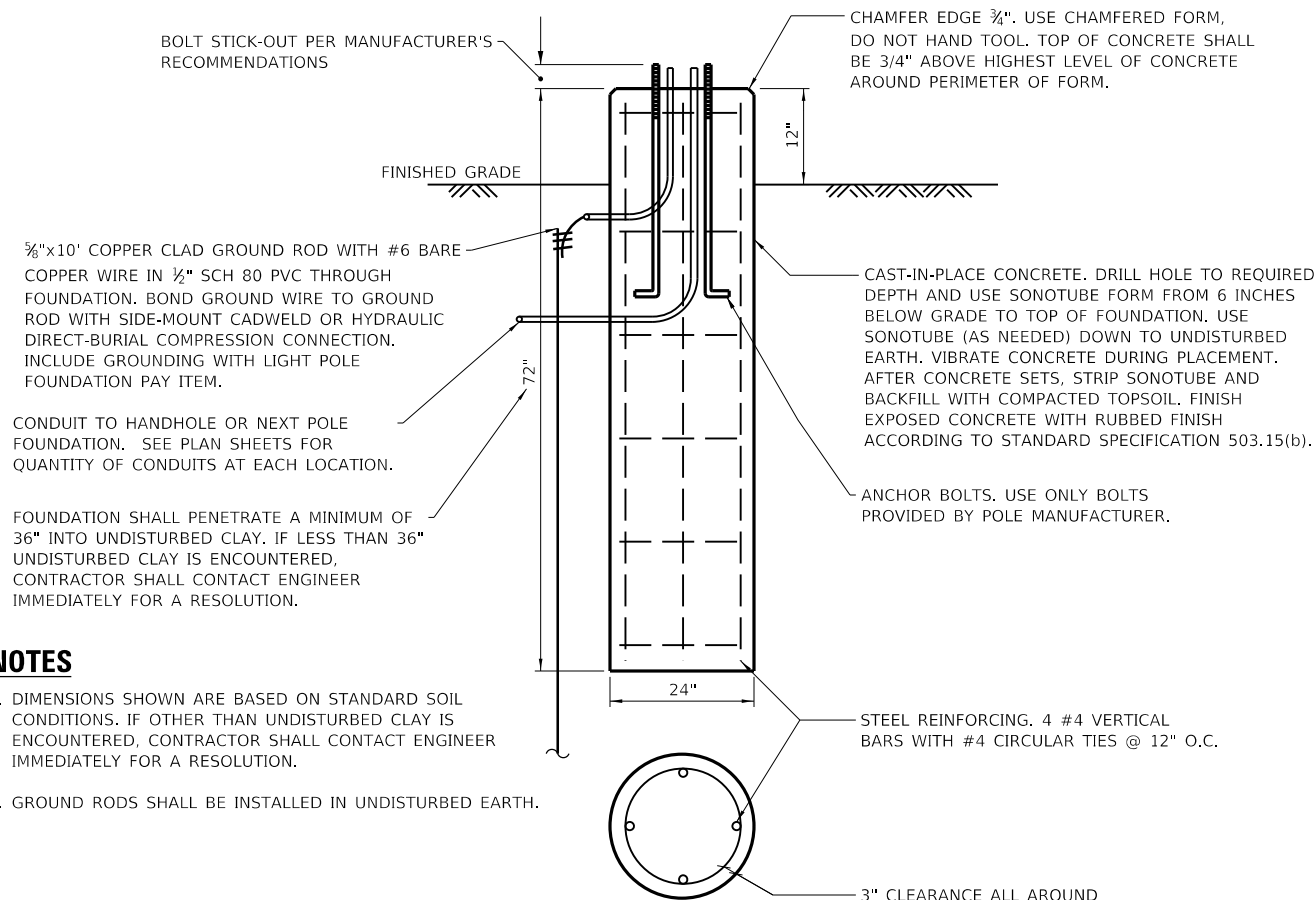


**NOTES:**

1. PROVIDE FUSE HOLDER WITH OPTIONAL RUBBER BOOT.
2. INSTALL FUSE HOLDER (WITH FUSES), SURGE PROTECTOR, CIRCUIT AND GROUNDING SPLICES IN POLE MOUNTED JUNCTION BOX.
3. PROVIDE SURGE PROTECTOR AND FUSE HOLDERS FOR EACH LUMINAIRE AT TWIN ARM POLE INSTALLATIONS.
4. POLE WIRING SHOWN IN THIS DETAIL IS INCLUDED WITH THE LIGHTING ASSEMBLY TYPE A SPECIAL PROVISIONS.

**LIGHT POLE WIRING**

NOT TO SCALE



**NOTES:**

1. DIMENSIONS SHOWN ARE BASED ON STANDARD SOIL CONDITIONS. IF OTHER THAN UNDISTURBED CLAY IS ENCOUNTERED, CONTRACTOR SHALL CONTACT ENGINEER IMMEDIATELY FOR A RESOLUTION.
2. GROUND RODS SHALL BE INSTALLED IN UNDISTURBED EARTH.

**LIGHT POLE FOUNDATION DETAIL**

NOT TO SCALE

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 SHEET



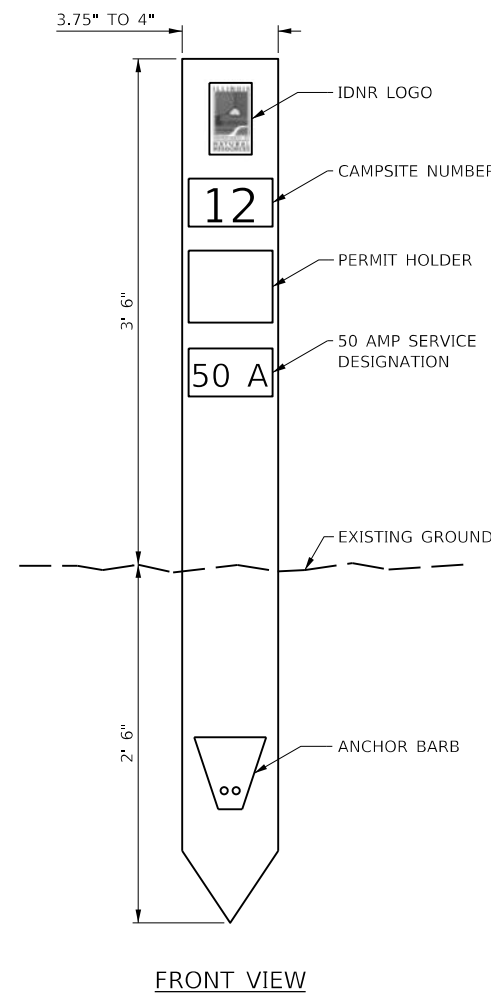
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ELECTRICAL DETAILS  
FORT MASSAC STATE PARK

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

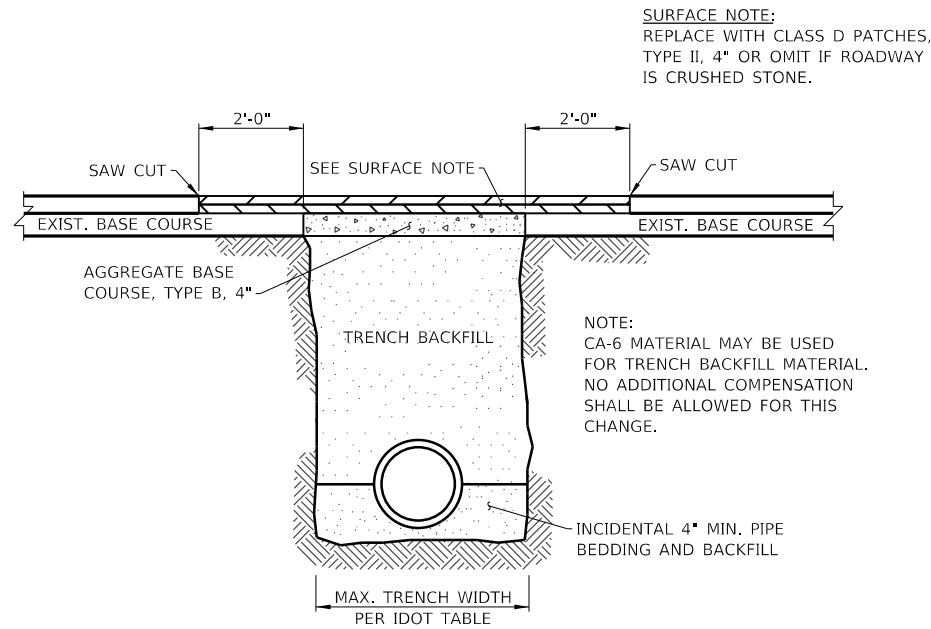
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***	MASSAC CAMPGROUND 2020	MASSAC	32	30
			CONTRACT NO. 46922	
		ILLINOIS	FED. AID PROJECT	



**CAMPSITE MARKER**

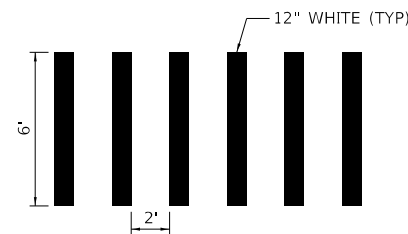
**NOTES:**

1. MARKERS SHALL BE OF FIBERGLASS REINFORCED COMPOSITE, BROWN IN COLOR.
2. SUBMIT SAMPLES TO IDNR FOR COLOR SELECTION PRIOR TO FABRICATION.
3. 50 AMP SERVICE DESIGNATION ON MARKER SHALL ONLY BE APPLIED TO SITE MARKERS AS SHOWN IN THE SIGNAGE SCHEDULE.

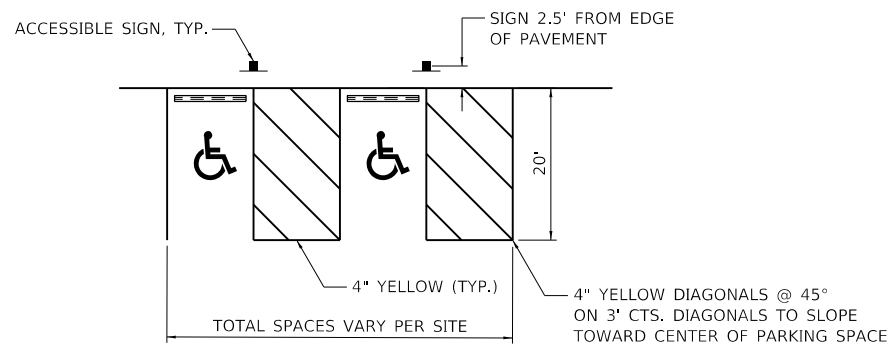


**CULVERT BACKFILL METHOD**

N.T.S.  
FOR BACKFILLING BENEATH ASPHALT AND CRUSHED STONE SURFACES.



**PEDESTRIAN CROSSWALK STRIPING**

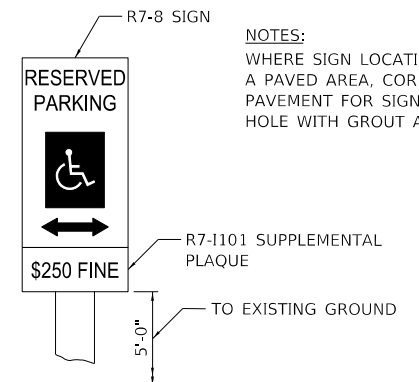


**ACCESSIBLE PARKING SPACE DETAIL**



**COLORS:**  
BORDER - RED  
LETTERING - RED  
BACKGROUND - WHITE

**SIGN PANEL – TYPE 1 (SPECIAL)**



**NOTES:**  
WHERE SIGN LOCATION IS WITHIN A PAVED AREA, CORE-DRILL NEW PAVEMENT FOR SIGN PLACEMENT. FILL HOLE WITH GROUT AROUND POST, TYP.

**ACCESSIBLE SIGN**

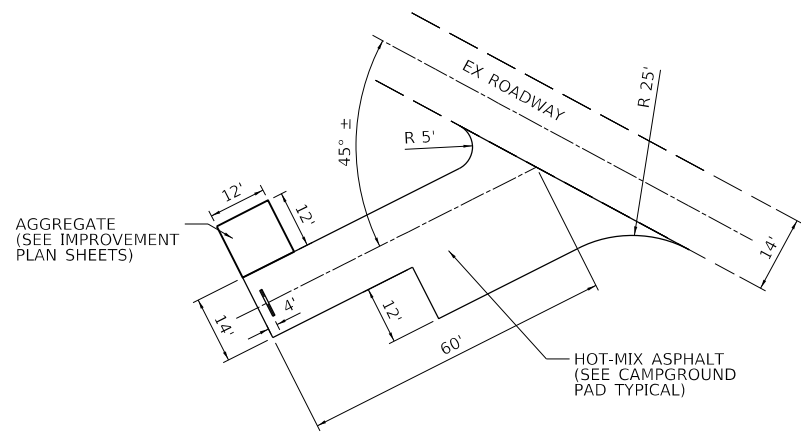
**NOTES**

1. PAVEMENT MARKINGS SHALL CONFORM TO SECTION 780 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
2. ALL ACCESSIBLE PARKING STRIPING SHALL BE 4" YELLOW.
3. ACCESSIBLE SYMBOLS SHALL BE LARGE SIZE CONTAINING 4.6 SQ FT OF AREA EACH.
4. ACCESSIBLE SIGNS SHALL CONSIST OF ILLINOIS STANDARD SIGNS: R7-8 "ACCESSIBILITY SYMBOL" R7-1101 "\$250 FINE"

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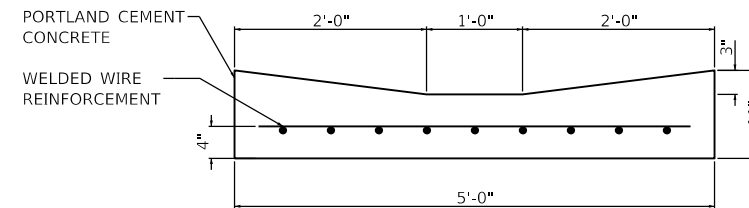
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
***	MASSAC CAMPGROUND 2020	MASSAC	32	31
CONTRACT NO. 46922				
ILLINOIS		FED. AID PROJECT		

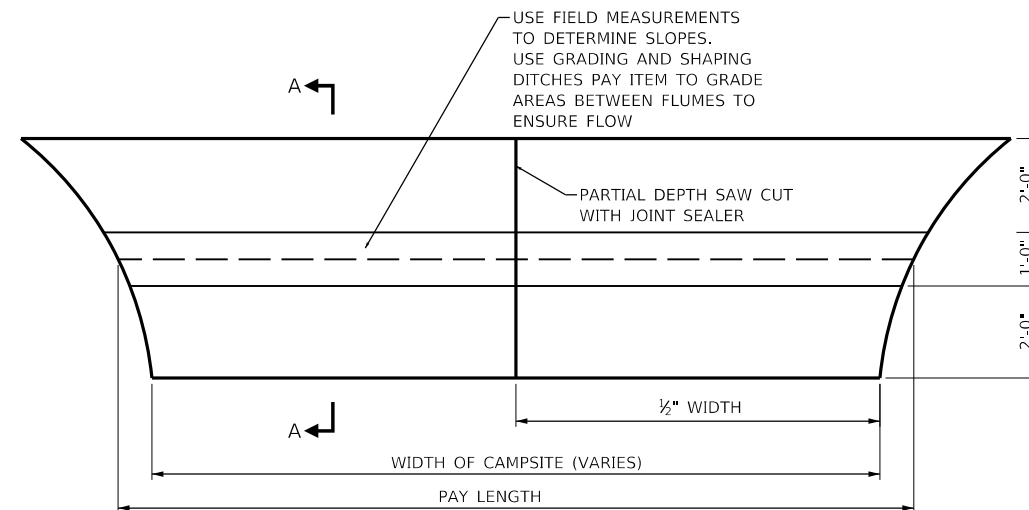


**CAMPGROUND TYPICAL PAD**

N.T.S.



**SECTION A-A**



**PAVED FLUME (PLAN VIEW)**

PARTIAL DEPTH SAW CUT SHALL EXTEND DOWN 2" INTO NEW CONCRETE. THE CUT WILL THEN BE FILLED WITH JOINT SEALER AND SHALL BE CONSIDERED INCIDENTAL TO THIS PAY ITEM. FOR THIS AND OTHER DETAILS, SEE SECTION 420 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MISCELLANEOUS DETAILS  
FORT MASSAC STATE PARK**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
***	MASSAC CAMPGROUND 2020	MASSAC	32	32
			CONTRACT NO. 46922	
		ILLINOIS	FED. AID PROJECT	