01-19-2024 LETTING ITEM 133

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	1
	ILLINOIS	CONTRACT NO. 46933		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

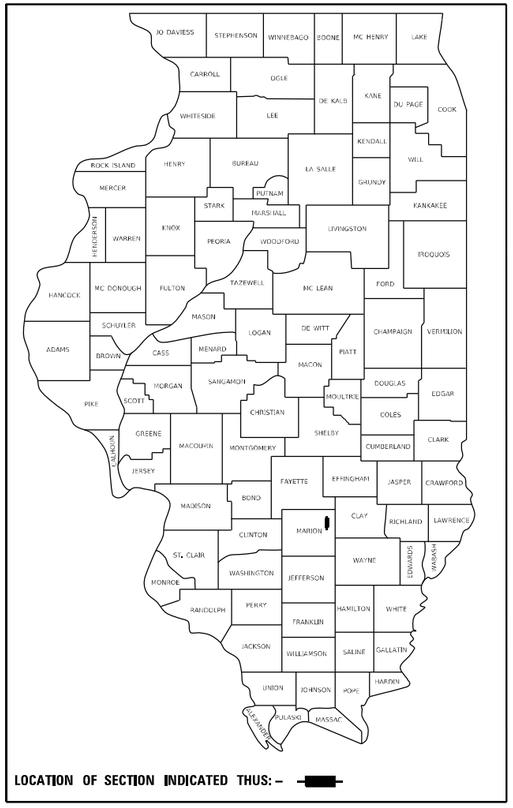
FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED
HIGHWAY PLANS

STEPHEN A. FORBES STATE RECREATION AREA
SECTION FORBES 2022
ROUTE: INTERNAL IDNR PARK ROAD
ROADWAY IMPROVEMENTS
MARION COUNTY

C–30–003–23

IDNR PROJECT 5–22–007

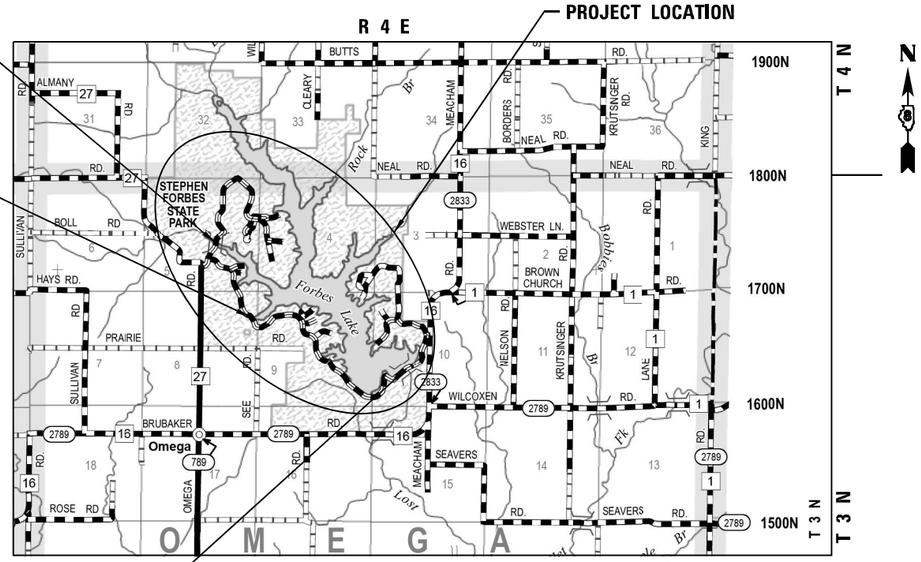


LOCATION OF SECTION INDICATED THUS: –

N MAIN PARK ROAD OVER MOUNTAIN BRANCH
STRUCTURE NO. 061–0400 (PROPOSED)
STRUCTURE NO. 061–9920 (EXISTING)
STA 13 + 72.50

MAIN PARK ROAD OVER UNNAMED TRIBUTARY
STRUCTURE NO. 061–2400 (PROPOSED)
STA 62 + 56.22

MAIN PARK ROAD OVER SPILLWAY
STRUCTURE NO. 061–9900 (EXISTING)
STA 169 + 65.50



LOCATION MAP
OMEGA TOWNSHIP
MEACHAM TOWNSHIP

1" = 1 MILE

100' 200' 300' — 1" = 100'
0 10' 20' 30' — 1" = 10'
0 50' 100' — 1" = 50'
0 50' 100' — 1" = 40'
0 50' 100' — 1" = 30'
0 50' 100' — 1" = 20'

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 EXCAVATORS
1–800–892–0123
OR 811

PROJECT ENGINEER VINCE MADONIA

CONTRACT NO. 46933

GROSS LENGTH = 51,101.89 FT. = 9.678 MILE
NET LENGTH = 51,101.89 FT. = 9.678 MILE

LICENSED PROFESSIONAL ENGINEER
ELIZABETH S. WITT
062-061876
STATE OF ILLINOIS

10/25/2023
ILLINOIS PROFESSIONAL ENGINEER NO. 062-061876
EXP. 11-30-2023
APPLIES TO SHEETS: 1-83

VOLKERT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED DEC 8, 23
REGIONAL ENGINEER
December 8, 2023
ENGINEER OF DESIGN AND ENVIRONMENT
December 8, 2023
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV. - MS

GENERAL NOTES

1. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY ALSO BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-J.U.L.I.E. MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

   *AT&T DISTRIBUTION
   *COUNTRYMARK REFINING & LOGISTICS
   *FRONTIER COMMUNICATIONS
   *CITY OF KINMUNDY
   *MARATHON - VERNON
   *NORTHEAST MARION CO WATER
   *TRI-COUNTY ELECTRIC CO-OP
   *WABASH COMMUNICATIONS

   MEMBERS OF J.U.L.I.E. (800) 892-0123 ARE INDICATED BY *

   NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

2. THE ALGEBRAIC DIFFERENCE BETWEEN THE PAVEMENT AND SHOULDER SLOPES SHALL NOT EXCEED 8%. THE SHOULDER ON THE OUTSIDE OF SUPERELEVATED CURVES SHALL BE FLATTENED ACCORDINGLY.

3. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB NUMBER LISTED IN THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.

4. IN ADDITION TO FIELD SURVEYS, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE A CAUSE FOR ADDITIONAL COMPENSATION DUE TO A CHANGE IN THE SCOPE OF WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR WORK.

5. THE BASELINE SHOWN IN THE PLANS IS A "BEST FIT" ALIGNMENT OF THE CENTER OF THE EXISTING ROADWAY FOR THE PURPOSE OF STATION AND DETERMINING OFFSETS. IN MOST CASES IT DOES NOT REPRESENT THE PHYSICAL CENTERLINE OF THE ROADWAY. THE CADD FILES WILL BE PROVIDED TO THE CONTRACTOR TO RE-ESTABLISH CONTROL AND STAKING DURING CONSTRUCTION.

6. ALL SIGN LOCATIONS ARE TO BE STAKED IN THE FIELD BY THE RESIDENT ENGINEER.

7. ALL PROPOSED GATE LOCATIONS ARE TO BE STAKED IN THE FIELD BY THE RESIDENT ENGINEER.

8. A NOMINAL QUANTITY OF 1,715 TONS OF AGGREGATE FOR BASE REPAIR HAS BEEN INCLUDED FOR REPAIRS TO THE EXISTING AGGREGATE ROADWAYS OR PARKING LOTS AT LOCATIONS AND AS DIRECTED BY THE ENGINEER.

9. ALL STONE DUMPED RIPRAP SHALL BE MINIMUM 16 INCHES THICK.

10. THE AGGREGATE GRADATION IN BITUMINOUS SURFACE TREATMENT, A3 FOR SEAL COAT AGGREGATE SHALL BE CA-16 (CRUSHED STONE). THE COVER COAT AGGREGATE SHALL BE CA-14 (CRUSHED STONE).

11. DUE TO THE POTENTIAL PRESENCE OF ENDANGERED BATS, NO TREE REMOVAL WILL BE ALLOWED ON THIS PROJECT BETWEEN APRIL 1ST AND SEPTEMBER 30TH.

12. ALL AREAS DISTURBED FOR ANY REASON SHALL BE PERMANENTLY SEEDED WITH CLASS 1 OR 2 SEEDING AND MULCH METHOD 1 AS DIRECTED BY THE ENGINEER. COST FOR CLASS 1 SEEDING, CLASS 2 SEEDING, FERTILIZER NUTRIENTS, MULCH METHOD 1, AND TEMPORARY EROSION CONTROL SEEDING IS INCLUDED IN THE COST OF CONTRACT.

COMMITMENTS

NONE

RATES OF APPLICATION TABLE

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

AGGREGATE	2.1 TONS/CUYD
BITUMINOUS MATERIAL	
TACK COAT (NEW HMA)	0.025 LB/SQFT
TACK COAT (EX OR MILLED HMA)	0.05 LB/SQFT
PRIME COAT	0.25 LB/SQFT
FOG SEAL	0.06 LB/SQFT
HOT-MIX ASPHALT	112 LB/SQYD/INCH
EARTH	110 LBS/CUFT

HMA MIXTURE REQUIREMENTS TABLE

LOCATIONS	PARK ROADS AND PARKING LOTS		FULL-DEPTH PAVEMENT AND CLASS D PATCHES	
MIXTURE USE(S)	HMA SURFACE COURSE	HMA BINDER COURSE	HMA SURFACE COURSE	HMA BINDER COURSE
AC/PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ NDES=50	4.0% @ NDES=50	4.0% @ NDES=50	4.0% @ NDES=50
MIXTURE COMPOSITION (GRADATION)	IL 9.5	IL 9.5 FG	IL 9.5	IL 9.5 FG
FRICTION AGGREGATE	MIX "C"	N.A.	MIX "C"	N.A.
MIXTURE WEIGHT	112	112	112	112
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA	QC/QA	QC/QA
SUBLOT SIZE	N.A.	N.A.	N.A.	N.A.

INDEX OF SHEETS

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-10	PAVEMENT JOINTS
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
442201-03	CLASS C AND D PATCHES
515001-04	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401-04	METAL FLARED END SECTION FOR PIPE CULVERTS
630001-13	STEEL PLATE BEAM GUARDRAIL
664001-02	CHAIN LINK FENCE
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-09	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
780001-05	TYPICAL PAVEMENT MARKINGS
821101-02	LUMINAIRE WIRING DIAGRAM
830001-03	LIGHT POLE ALUMINUM MAST ARM
836001-04	LIGHT POLE FOUNDATION
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 22-7	TYP. APPL. OF T.C.D. FOR RURAL LOC. HWYS. (2-LANE 2 WAY RURAL TRAFF.) (RD. CLOSED TO THRU TRAFF.)

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MODEL: $MODELNAMES
FILE NAME: pw:\\projectwise.volkert.com:volkert-us.pwDocuments\Projects\1150903 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\522007 Sht GenNote.dgn

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PLOT DATE = 10/25/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, HIGHWAY STANDARDS, COMMITMENTS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	2
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		

100% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				ROADWAY 0005 RURAL	BRIDGE SN 061-0400 0010 RURAL	BRIDGE SN 061-9900 0010 RURAL	CULVERT SN 061-2400 0010 RURAL
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	26	26			
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	18	18			
20200100	EARTH EXCAVATION	CU YD	95	95			
20700220	POROUS GRANULAR EMBANKMENT	CU YD	787				787
20800150	TRENCH BACKFILL	CU YD	459	459			
28000500	INLET AND PIPE PROTECTION	EACH	40	40			
28100107	STONE RIPRAP, CLASS A4	SQ YD	239		202		37
28100707	STONE DUMPED RIPRAP, CLASS A4	SQ YD	156	156			
28200200	FILTER FABRIC	SQ YD	239		202		37
30300011	AGGREGATE SUBGRADE IMPROVEMENT	TON	231	231			
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	348	348			
35800100	PREPARATION OF BASE	SQ YD	72983	72983			
35800200	AGGREGATE BASE REPAIR	TON	1715	1715			
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	3132	3132			
40400001	FIBER-MODIFIED ASPHALT CRACK SEALING	FOOT	1355	1355			
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	45477	45477			

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: | SHEET 1 OF 8 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	3
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		

100% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				ROADWAY 0005 RURAL	BRIDGE SN 061-0400 0010 RURAL	BRIDGE SN 061-9900 0010 RURAL	CULVERT SN 061-2400 0010 RURAL
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	60292	60292			
40600990	TEMPORARY RAMP	SQ YD	66	66			
40602965	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50	TON	5332	5332			
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	10317	10317			
40701901	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 11"	SQ YD	222	222			
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	100	100			
42001300	PROTECTIVE COAT	SQ YD	50	50			
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	36	36			
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	126	126			
44000100	PAVEMENT REMOVAL	SQ YD	437	437			
44000152	HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"	SQ YD	85935	85935			
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	35	35			
44000600	SIDEWALK REMOVAL	SQ FT	126	126			
44201335	CLASS C PATCHES, TYPE IV, 8 INCH	SQ YD	29	29			
44201717	CLASS D PATCHES, TYPE II, 6 INCH	SQ YD	49	49			
44201721	CLASS D PATCHES, TYPE III, 6 INCH	SQ YD	16	16			

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: | SHEET 2 OF 8 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	4
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		

100% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE: ROADWAY 0005 RURAL	BRIDGE SN 061-0400 0010 RURAL	BRIDGE SN 061-9900 0010 RURAL	CULVERT SN 061-2400 0010 RURAL
44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	28	28			
44201777	CLASS D PATCHES, TYPE II, 11 INCH	SQ YD	54	54			
44201781	CLASS D PATCHES, TYPE III, 11 INCH	SQ YD	126	126			
44201783	CLASS D PATCHES, TYPE IV, 11 INCH	SQ YD	210	210			
45100100	CRACK ROUTING (PAVEMENT)	FOOT	1355	1355			
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	1223	1223			
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	1047	1047			
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1				1
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1		1		
50102400	CONCRETE REMOVAL	CU YD	4.8			4.8	
50105220	PIPE CULVERT REMOVAL	FOOT	2694	2694			
50200100	STRUCTURE EXCAVATION	CU YD	68		68		
50201101	COFFERDAM (TYPE 1) (LOCATION - 1)	EACH	1		1		
50201102	COFFERDAM (TYPE 1) (LOCATION - 2)	EACH	1		1		
50300225	CONCRETE STRUCTURES	CU YD	65		54.6	10.4	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	4.8			4.8	

100% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				ROADWAY 0005 RURAL	BRIDGE SN 061-0400 0010 RURAL	BRIDGE SN 061-9900 0010 RURAL	CULVERT SN 061-2400 0010 RURAL
50300260	BRIDGE DECK GROOVING	SQ YD	104			104	
50300280	CONCRETE ENCASEMENT	CU YD	8		8		
50300300	PROTECTIVE COAT	SQ YD	465		351	114	
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	63.9		25.2	38.7	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	28450		12770	15680	
51201600	FURNISHING STEEL PILES HP12X53	FOOT	780		780		
51202305	DRIVING PILES	FOOT	744		744		
51203600	TEST PILE STEEL HP12X53	EACH	2		2		
51204650	PILE SHOES	EACH	20		20		
51500100	NAME PLATES	EACH	2		1		1
52000110	PREFORMED JOINT STRIP SEAL	FOOT	50			50	
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2				2
54011208	PRECAST CONCRETE BOX CULVERTS 12' X 8'	FOOT	122.5				122.5
54213654	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 8"	EACH	16	16			
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	26	26			

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: | SHEET 4 OF 8 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	6
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		

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	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
					ROADWAY 0005 RURAL	BRIDGE SN 061-0400 0010 RURAL	BRIDGE SN 061-9900 0010 RURAL	CULVERT SN 061-2400 0010 RURAL
	54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	10	10			
	54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	12	12			
	54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2	2			
	54262718	METAL FLARED END SECTIONS 18"	EACH	1	1			
	542A0213	PIPE CULVERTS, CLASS A, TYPE 1 8"	FOOT	2520	2520			
	542A0217	PIPE CULVERTS, CLASS A, TYPE 1 12"	FOOT	329	329			
	542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	122	122			
	542A1060	PIPE CULVERTS, CLASS A, TYPE 2 15"	FOOT	35	35			
	542A1063	PIPE CULVERTS, CLASS A, TYPE 2 18"	FOOT	306	306			
	542A1069	PIPE CULVERTS, CLASS A, TYPE 2 24"	FOOT	67	67			
	58700300	CONCRETE SEALER	SQ FT	204		204		
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	35		35		
	60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	66		66		
	60617800	PAVED FLUME	FOOT	108	108			
*	63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	112.5	112.5			
*	63400105	GUARD POSTS	EACH	675	675			

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: | SHEET 5 OF 8 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	7
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		

100% STATE

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
					ROADWAY 0005 RURAL	BRIDGE SN 061-0400 0010 RURAL	BRIDGE SN 061-9900 0010 RURAL	CULVERT SN 061-2400 0010 RURAL
	66400105	CHAIN LINK FENCE, 4'	FOOT	20			20	
	67100100	MOBILIZATION	L SUM	1	1			
*	72000100	SIGN PANEL - TYPE 1	SQ FT	432	432			
*	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	92	92			
*	72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	20	20			
*	73000100	WOOD SIGN SUPPORT	FOOT	1481	1481			
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	157	157			
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	20065	20065			
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	3529	3529			
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	402	402			
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	55	55			
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	66	66			
*	81028720	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1" DIA.	FOOT	20	20			
*	81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	100	100			
*	82110007	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	6	6			
*	82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	12	12			

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: | SHEET 6 OF 8 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	8
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		

100% STATE

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
					ROADWAY 0005 RURAL	BRIDGE SN 061-0400 0010 RURAL	BRIDGE SN 061-9900 0010 RURAL	CULVERT SN 061-2400 0010 RURAL
*	83600352	LIGHT POLE FOUNDATION, METAL, 11 1/2" BOLT CIRCLE, 8 5/8" X 6'	EACH	6	6			
	84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	18	18			
	X0300019	REMOVE AND REINSTALL PARKING BLOCKS	EACH	176	176			
	X0301339	REMOVE EXISTING PARKING BLOCKS	EACH	85	85			
	X0301430	PRECAST CONCRETE PARKING BLOCK	EACH	69	69			
	X0322329	TIMBER CURB REMOVAL	FOOT	72	72			
	X0323013	TUBULAR STEEL GATE	EACH	3	3			
	X0325800	PARKING LOT SEAL COAT	SQ YD	11079	11079			
*	X8005020	GFCI 20 AMP DUPLEX RECEPTACLE	EACH	6	6			
	X0327171	SCARIFY EXISTING SURFACE	SQ YD	5444	5444			
	X0327592	LARGE ENTRANCE SIGN	EACH	2	2			
	X0327593	SMALL ENTRANCE SIGN	EACH	23	23			
*	X1400211	LIGHT POLE, SPECIAL, 30'	EACH	18	18			
	X1500006	BITUMINOUS SURFACE TREATMENT, A3	SQ YD	20700	20700			
	X2010404	STUMP REMOVAL	EACH	2	2			
	X2020114	GRADING AND SHAPING DITCHES (SPECIAL)	FOOT	344	344			

* SPECIALTY ITEM

REV. - MS

MODEL: $MODELNAME$
FILE NAME: pw:\\projectwise.volkert.com.volkert-us-pwDocuments\Projects\1150903 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\522007-Sht-SOQ.dgn

VOLKERT

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	DRAWN -	REVISED -
PLOT SCALE = 0.1667 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: | SHEET 7 OF 8 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	9
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		

100% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				ROADWAY 0005 RURAL	BRIDGE SN 061-0400 0010 RURAL	BRIDGE SN 061-9900 0010 RURAL	CULVERT SN 061-2400 0010 RURAL
X2300023	TIMBER RAILING	FOOT	242		242		
X2600016	MINOR SIGN COMPLETE	EACH	15	15			
X2600033	CAMPSITE MARKER	EACH	140	140			
X3110102	COARSE AGGREGATE BACKFILL (SPECIAL)	CU YD	58		58		
X4060107	BITUMINOUS MATERIALS (FOG SEAL)	POUND	11178	11178			
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	594	594			
X5427602	REMOVE EXISTING FLARED END SECTION	EACH	1	1			
X6300210	GUARDRAIL BLOCKS	EACH	29			29	
X6340205	GUARD POSTS REMOVAL	EACH	423	423			
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1			
X7240300	SIGN REMOVAL	EACH	40	40			
* X7240600	REMOVE AND RE-ERECT EXISTING SIGN	EACH	7	7			
X8430100	REMOVE EXISTING CONDUIT ATTACHED TO STRUCTURE	FOOT	67			67	
X0322507	PREFABRICATED BRIDGE SUPERSTRUCTURE	SQ FT	2524		2524		
Z0004552	APPROACH SLAB REMOVAL	SQ YD	108			108	
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1			1	
Z0010501	CLEANING AND PAINTING STEEL BRIDGE, NO. 1	L SUM	1			1	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1			

* SPECIALTY ITEM

REV. - MS

VOLKERT

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	DRAWN -	REVISED -
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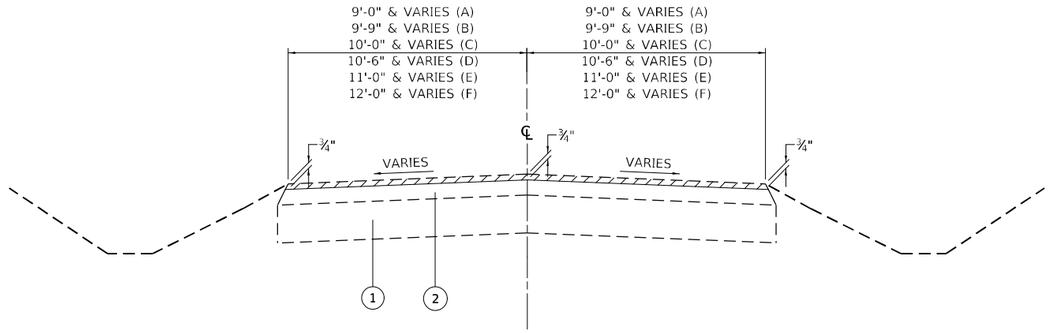
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: | SHEET 8 OF 8 SHEETS | STA. | TO STA.

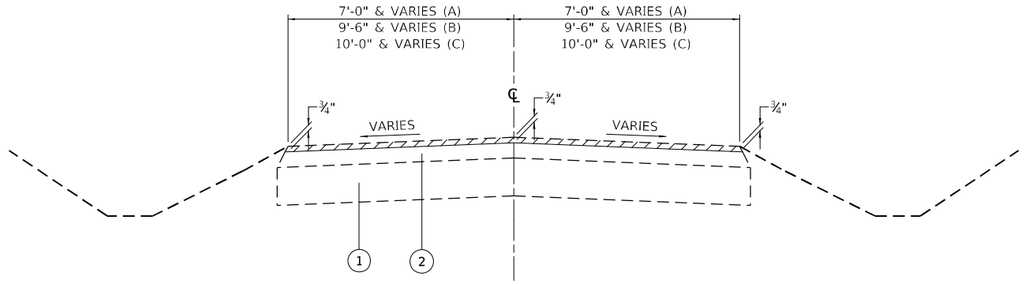
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	10
		CONTRACT NO. 46933		
		ILLINOIS FED. AID PROJECT		



MAIN PARK ROADS (HMA RESURFACING)

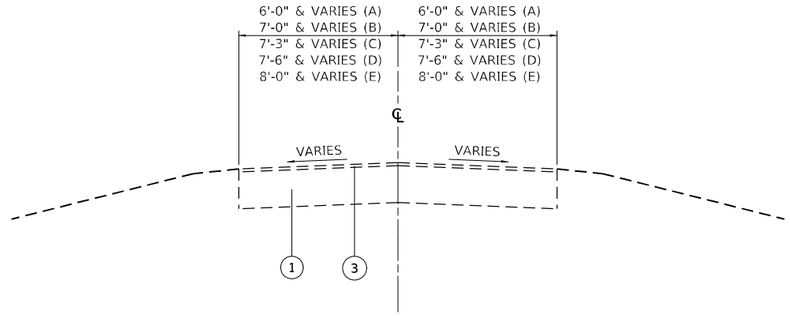
(A) STA 4+88 TO STA 25+00 (MAIN PARK ROAD)
(D) STA 25+00 TO STA 206+32 (MAIN PARK ROAD)
(C) STA 206+32 TO STA 221+42 (MAIN PARK ROAD)
(F) STA 0+14 TO 5+13 (N MAIN PARK ROAD)
(E) STA 5+13 TO STA 79+99 (N MAIN PARK ROAD)
(C) STA 0+11 TO STA 6+00 (MARINA ROAD)
(B) STA 0+11 TO STA 1+39 (EAST PARK ENTRANCE)

BRIDGE OMISSION STA 169+29 TO STA 170+02 (MAIN PARK ROAD)
BRIDGE OMISSION STA 13+09 TO STA 14+37 (N MAIN PARK ROAD)



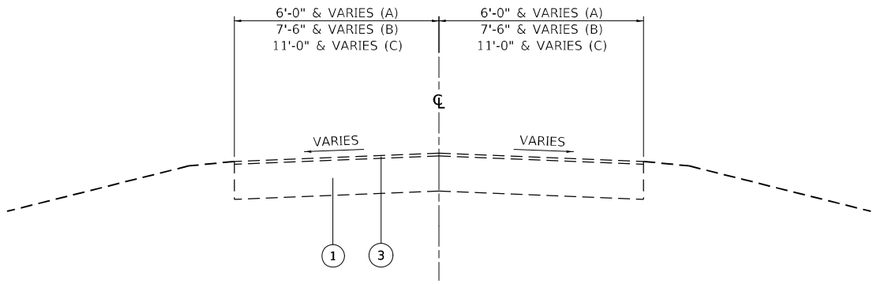
OAK RIDGE CAMPGROUND ROADS (HMA RESURFACING)

(A) STA 0+11 TO STA 9+21 (OAK ROAD A)
(A) STA 0+11 TO STA 8+74 (OAK LOOP A)
(B) STA 8+74 TO STA 10+02 (OAK LOOP A)
(A) STA 10+02 TO STA 12+54 (OAK LOOP A)
(A) STA 0+11 TO STA 8+28 (OAK ROAD B)
(C) STA 0+11 TO STA 8+82 (OAK LOOP B)
(A) STA 8+82 TO STA 10+91 (OAK LOOP B)
(C) STA 0+11 TO STA 8+77 (OAK LOOP C)
(A) STA 8+77 TO STA 12+57 (OAK LOOP C)



SECONDARY PARK ROADS (HMA OVERLAY)

(C) STA 0+09 TO STA 1+10 (WEST PARK ENTRANCE)
(A) STA 0+11 TO STA 16+24 (CIRCLE DRIVE)
(B) STA 0+11 TO STA 2+23 (WHIPPOORWILL)
(A) STA 2+23 TO STA 7+56 (WHIPPOORWILL)
(A) STA 0+07 TO STA 2+48 (N WHIPPOORWILL)
(E) STA 0+11 TO STA 9+06 (SASSAFRAS)
(B) STA 0+11 TO STA 7+66 (BLACK OAK)
(D) STA 0+10 TO STA 5+92 (WHITE OAK)



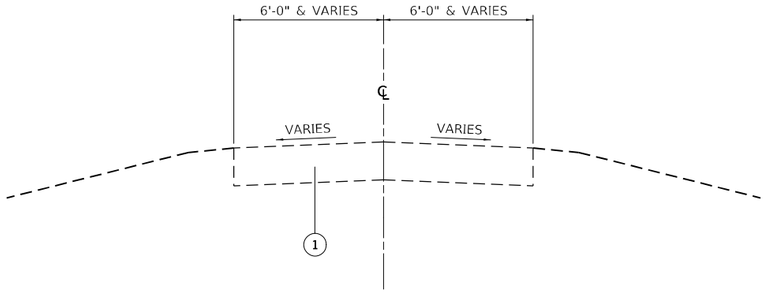
SECONDARY PARK ROADS (OIL & CHIP)

(B) STA 0+10 TO STA 48+98 (STAGECOACH)
(C) STA 79+99 TO STA 97+25 (N MAIN PARK ROAD)
(A) STA 97+25 TO STA 101+48 (N MAIN PARK ROAD)
(A) STA 1+15 TO STA 4+80 (EQUESTRIAN LOOP A)
(A) STA 10+10 TO STA 19+29 (EQUESTRIAN LOOP B)

LEGEND

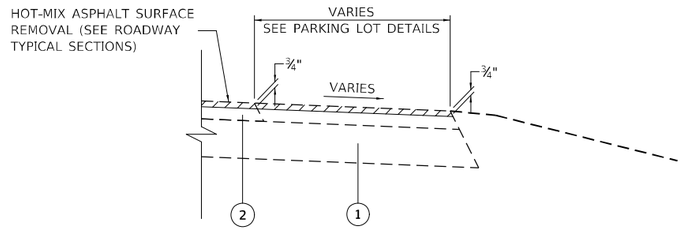
1. EXISTING AGGREGATE BASE
2. EXISTING HOT-MIX ASPHALT PAVEMENT
3. EXISTING OIL & CHIP SURFACE
4. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
5. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 2"
6. PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50, 1 1/4"
7. PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
8. PROPOSED BITUMINOUS SURFACE TREATMENT, A3
9. PROPOSED AGGREGATE SURFACE COURSE, TYPE B, 2"
10. PROPOSED AGGREGATE SHOULDERS, TYPE B 6"
11. PROPOSED PARKING LOT SEAL COAT
12. PROPOSED SCARIFY EXISTING SURFACE
13. PROPOSED PREPARATION OF BASE
14. PROPOSED AGGREGATE BASE REPAIR
15. PROPOSED HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 11"
16. PROPOSED AGGREGATE SUBGRADE IMPROVEMENT (12" AND VARIES)
17. PROPOSED PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB

HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"



AGGREGATE ROAD

STA 0+11 TO STA 18+95 (NW PARK ROAD)



HOT-MIX ASPHALT PARKING LOT RESURFACING

HUNTER CHECK STATION PARKING LOT
SITE OFFICE BUS & RV PARKING LOT
SITE OFFICE PARKING LOT A
WASTE STATION
OAK RIDGE CAMPGROUND PARKING LOTS (1)

VOLKERT

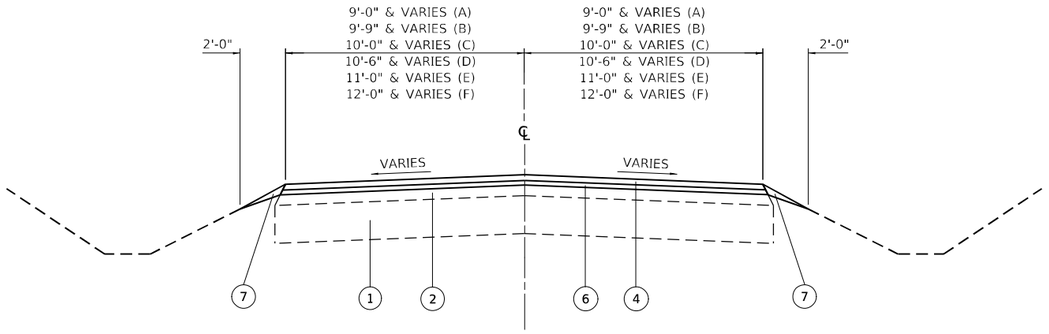
USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TYPICAL SECTIONS
STEPHEN A. FORBES STATE RECREATION AREA

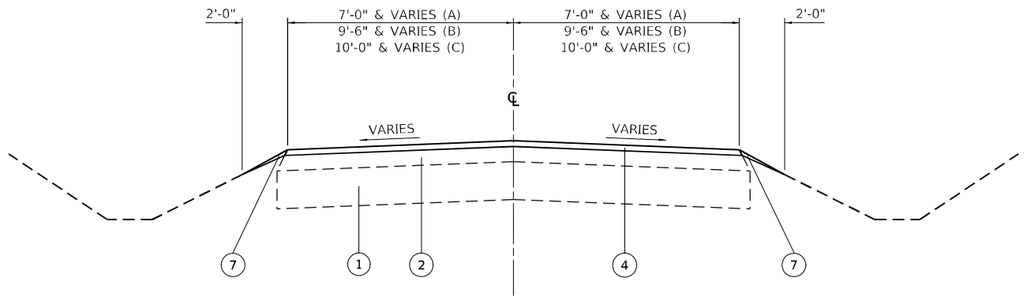
SCALE: 1"=5' | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	11
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			



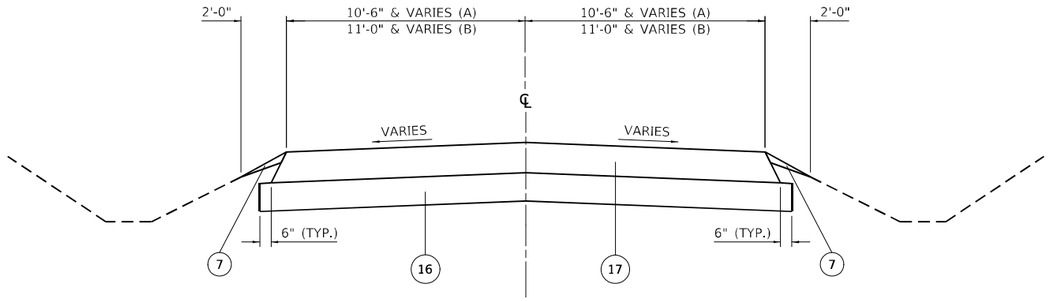
MAIN PARK ROADS (HMA RESURFACING)

(A) STA 4+88 TO STA 25+00 (MAIN PARK ROAD)
(D) STA 25+00 TO STA 62+08 (MAIN PARK ROAD)
(D) STA 63+03 TO STA 168+97.94 (MAIN PARK ROAD)
(D) STA 170+32.55 TO STA 206+32 (MAIN PARK ROAD)
(C) STA 206+32 TO STA 221+42 (MAIN PARK ROAD)
(F) STA 0+14 TO 5+13 (N MAIN PARK ROAD)
(E) STA 5+13 TO STA 12+87.42 (N MAIN PARK ROAD)
(E) STA 14+58.00 TO STA 79+99 (N MAIN PARK ROAD)
(C) STA 0+11 TO STA 6+00 (MARINA ROAD)
(B) STA 0+11 TO STA 1+39 (EAST PARK ENTRANCE)



OAK RIDGE CAMPGROUND ROADS (HMA RESURFACING)

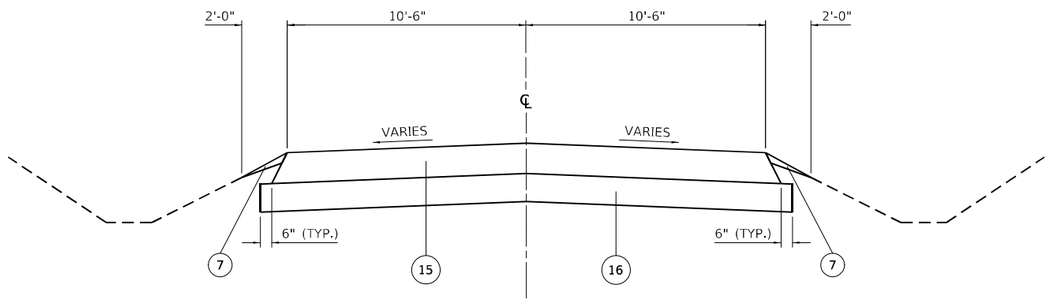
(A) STA 0+11 TO STA 9+21 (OAK ROAD A)
(A) STA 0+11 TO STA 8+74 (OAK LOOP A)
(B) STA 8+74 TO STA 10+02 (OAK LOOP A)
(A) STA 10+02 TO STA 12+54 (OAK LOOP A)
(A) STA 0+11 TO STA 8+28 (OAK ROAD B)
(C) STA 0+11 TO STA 8+82 (OAK LOOP B)
(A) STA 8+82 TO STA 10+91 (OAK LOOP B)
(C) STA 0+11 TO STA 8+77 (OAK LOOP C)
(A) STA 8+77 TO STA 12+57 (OAK LOOP C)



MAIN PARK ROADS (HMA PAVEMENT CONNECTOR)

(A) STA 168+97.88 TO STA 169+09.05 (MAIN PARK ROAD)
BRIDGE OMISSION STA 169+09.05 TO STA 170+22.55 (MAIN PARK ROAD)
(A) STA 170+22.55 TO STA 170+32.55 (MAIN PARK ROAD)

(B) STA 12+87.42 TO STA 12+97.42 (N MAIN PARK ROAD)
BRIDGE OMISSION STA 12+97.42 TO STA 14+47.58 (N MAIN PARK ROAD)
(B) STA 14+47.58 TO STA 14+58.00 (N MAIN PARK ROAD)



MAIN PARK ROADS (HMA PAVEMENT)

STA 62+08 TO STA 63+03 (MAIN PARK ROAD)

LEGEND

1. EXISTING AGGREGATE BASE
2. EXISTING HOT-MIX ASPHALT PAVEMENT
3. EXISTING OIL & CHIP SURFACE
4. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
5. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 2"
6. PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50, 1 1/4"
7. PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
8. PROPOSED BITUMINOUS SURFACE TREATMENT, A3
9. PROPOSED AGGREGATE SURFACE COURSE, TYPE B, 2"
10. PROPOSED AGGREGATE SHOULDERS, TYPE B 6"
11. PROPOSED PARKING LOT SEAL COAT
12. PROPOSED SCARIFY EXISTING SURFACE
13. PROPOSED PREPARATION OF BASE
14. PROPOSED AGGREGATE BASE REPAIR
15. PROPOSED HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 11"
16. PROPOSED AGGREGATE SUBGRADE IMPROVEMENT (12" AND VARIES)
17. PROPOSED PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB

HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"

VOLKERT

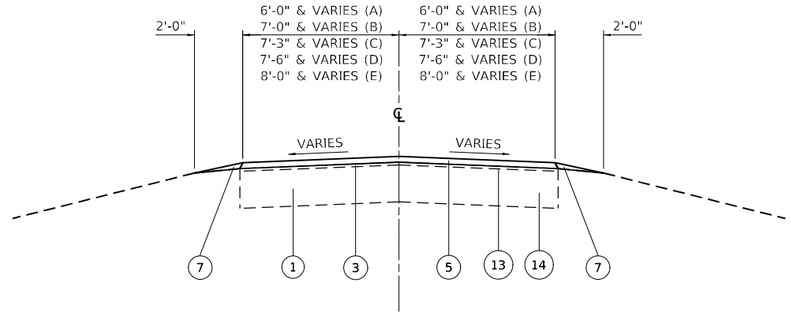
USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS - ROADWAY
STEPHEN A. FORBES STATE RECREATION AREA

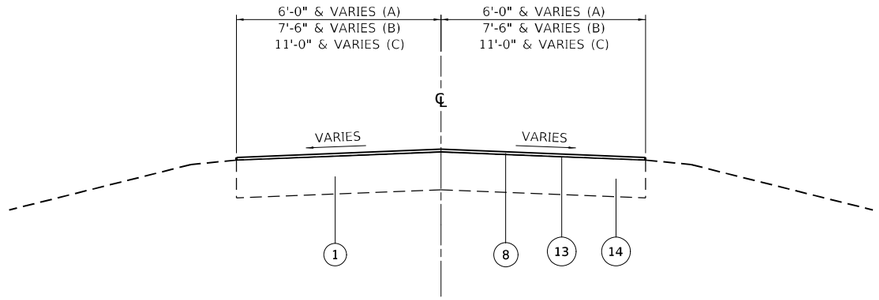
SCALE: 1"=5' | SHEET 1 OF 3 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	12
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		



SECONDARY PARK ROADS (HMA OVERLAY)

(C) STA 0+09 TO STA 1+10 (WEST PARK ENTRANCE)
(A) STA 0+11 TO STA 16+24 (CIRCLE DRIVE)
(B) STA 0+11 TO STA 2+23 (WHIPPOORWILL)
(A) STA 2+23 TO STA 7+56 (WHIPPOORWILL)
(A) STA 0+07 TO STA 2+48 (N WHIPPOORWILL)
(E) STA 0+11 TO STA 9+06 (SASSAFRAS)
(B) STA 0+11 TO STA 7+66 (BLACK OAK)
(D) STA 0+10 TO STA 5+92 (WHITE OAK)



SECONDARY PARK ROADS (OIL & CHIP)

(B) STA 0+10 TO STA 48+98 (STAGECOACH)
(C) STA 79+99 TO STA 97+25 (N MAIN PARK ROAD)
(A) STA 97+25 TO STA 101+48 (N MAIN PARK ROAD)
(A) STA 1+15 TO STA 4+80 (EQUESTRIAN LOOP A)*
(A) STA 10+10 TO STA 19+29 (EQUESTRIAN LOOP B)

*SEE EQUESTRIAN CAMPGROUND PLAN FOR PROPOSED ENTRANCE DETAIL STA 0+09 TO 1+15

LEGEND

1. EXISTING AGGREGATE BASE
2. EXISTING HOT-MIX ASPHALT PAVEMENT
3. EXISTING OIL & CHIP SURFACE
4. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
5. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 2"
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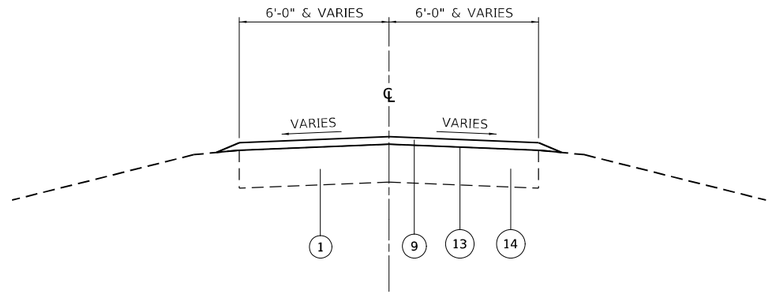
HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"



AGGREGATE ROAD

STA 0+11 TO STA 18+95 (NW PARK ROAD)

VOLKERT

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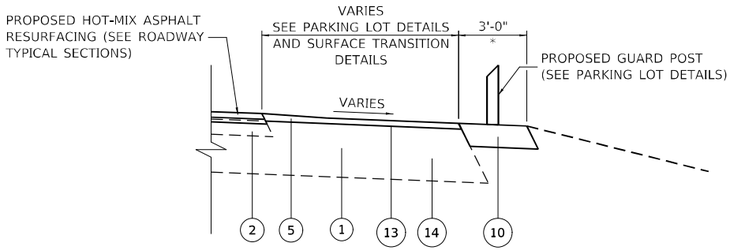
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS - ROADWAY
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=5' | SHEET 2 OF 3 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	13
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		

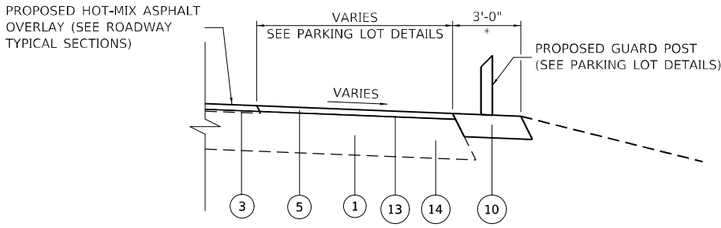


HOT-MIX ASPHALT PARKING LOTS (MAIN PARK ROADS)

EXISTING AGGREGATE PARKING LOTS ADJACENT TO MAIN PARK ROADS)

PARKING LOT NO. 13
PARKING LOT NO. 12
PARKING LOT NO. 11 (HENNEMAN TRAIL)
PERSIMMON PICNIC AREA PARKING LOT
PARKING LOT NO. 8 (MARLOW POND TRAIL)
LAKESIDE PARKING LOT
PARKING LOT NO. 6 (CATTAIL TRAIL)
LOOKOUT POINT PICNIC AREA PARKING LOT
SITE OFFICE PARKING LOT B
PARKING LOT NO. 15

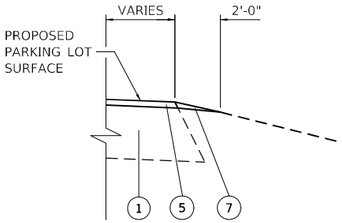
* AGGREGATE SHOULDER AND GUARD POSTS ONLY AT LOCATIONS AS SHOWN ON PARKING LOT DETAILS. FOR ALL OTHER LOCATIONS, SEE SHOULDER ALTERNATIVE.



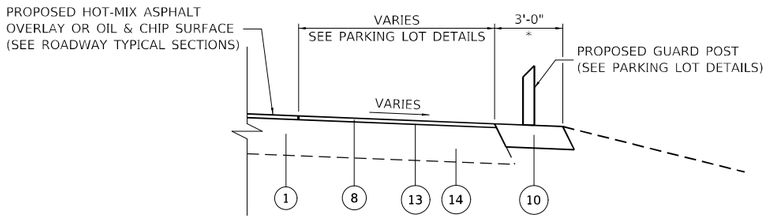
HOT-MIX ASPHALT PARKING LOTS (SECONDARY PARK ROADS)

EXISTING AGGREGATE PARKING LOTS ADJACENT TO SECONDARY PARK ROADS

CIRCLE DRIVE PICNIC AREA PARKING LOTS
WHIPPOORWILL YOUTH AREA PARKING LOTS (1 & 3)
SASSAFRAS PICNIC AREA PARKING LOTS
BLACK OAK PICNIC AREA PARKING LOTS
WHITE OAK PICNIC AREA PARKING LOT

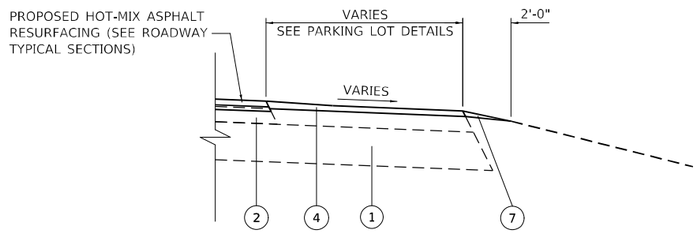


SHOULDER ALTERNATIVE



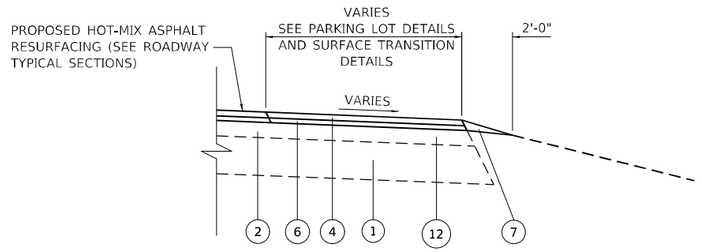
OIL & CHIP PARKING LOTS

PARKING LOT NO. 18 (BOSTON POND)
PARKING LOT NO. 14
PHILLIPS CREEK TRAIL PARKING LOTS
STAGECOACH PICNIC AREA PARKING LOT
TENT CAMPGROUND PARKING LOTS



HOT-MIX ASPHALT PARKING LOT RESURFACING

HUNTER CHECK STATION PARKING LOT
SITE OFFICE BUS & RV PARKING LOT
SITE OFFICE PARKING LOT A
WASTE STATION
OAK RIDGE CAMPGROUND PARKING LOT (1)



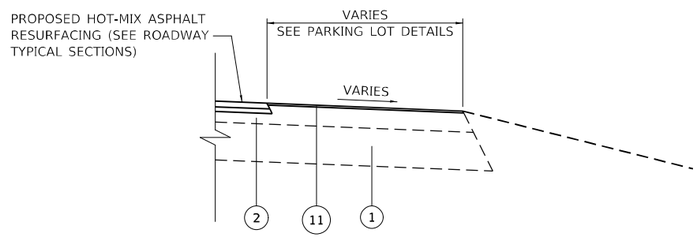
HOT-MIX ASPHALT PARKING LOT SCARIFICATION

MARINA RESTAURANT PARKING LOT

LEGEND

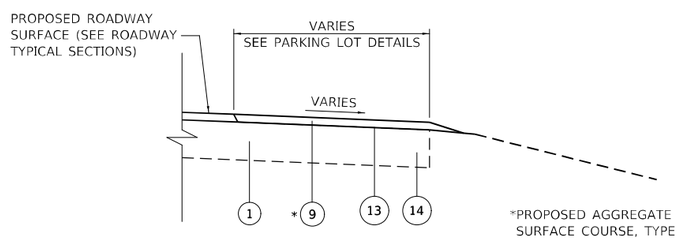
1. EXISTING AGGREGATE BASE
2. EXISTING HOT-MIX ASPHALT PAVEMENT
3. EXISTING OIL & CHIP SURFACE
4. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
5. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 2"
6. PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50, 1 1/4"
7. PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
8. PROPOSED BITUMINOUS SURFACE TREATMENT, A3
9. PROPOSED AGGREGATE SURFACE COURSE, TYPE B, 2"
10. PROPOSED AGGREGATE SHOULDERS, TYPE B 6"
11. PROPOSED PARKING LOT SEAL COAT
12. PROPOSED SCARIFY EXISTING SURFACE
13. PROPOSED PREPARATION OF BASE
14. PROPOSED AGGREGATE BASE REPAIR
15. PROPOSED HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 11"
16. PROPOSED AGGREGATE SUBGRADE IMPROVEMENT (12" AND VARIES)
17. PROPOSED PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB

HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"



HOT-MIX ASPHALT PARKING LOT SEAL COAT

LAKEVIEW BOAT ACCESS PARKING LOTS
ROCKY POINT BEACH PARKING LOT
FISH CLEANING STATION PARKING LOT
OAK RIDGE CAMPGROUND PARKING LOT (2)



*PROPOSED AGGREGATE SURFACE COURSE, TYPE B, 1" FOR EQUESTRIAN CAMPGROUND PARKING LOT ONLY

AGGREGATE PARKING LOTS

PARKING LOT NO. 1
PARKING LOT NO. 2
PARKING LOT NO. 4
PARKING LOT NO. 9
PARKING LOT NO. 16
PARKING LOT NO. 17
PARKING LOT NO. 19
PARKING LOT NO. 20
PARKING LOT NO. X
WHIPPOORWILL YOUTH AREA PARKING LOT (2)
EQUESTRIAN CAMPGROUND PARKING LOT

MODEL: $MODELNAME$
FILE NAME: p:\projectwise\volkert.com\volkert-us-pw\Documents\Projects\115093 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\52207-Sht-Typicals.dgn

VOLKERT

USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS - PARKING LOTS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=5' | SHEET 3 OF 3 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	14
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			

PAVING SCHEDULE

LOCATION				AGGREGATE SUBGRADE IMPROVEMENT	PREPARATION OF BASE	AGGREGATE SURFACE COURSE, TYPE B	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	TEMPORARY RAMP	HOT-MIX ASPHALT BINDER COURSE, IL-9.5 FG, N50	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5 MIX "C", N50	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 11"	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	PROTECTIVE COAT	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	PAVEMENT REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"	SIDEWALK REMOVAL	AGGREGATE WEDGE SHOULDER, TYPE B	BITUMINOUS SURFACE TREATMENT, A3	BITUMINOUS MATERIALS (FOG SEAL)	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
STATION	TO	STATION	ROADWAY	(TON)	(SQ YD)	(TON)	(POUND)	(POUND)	(SQ YD)	(TON)	(TON)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ FT)	(SQ YD)	(SQ YD)	(SQ FT)	(TON)	(SQ YD)	(POUND)	(SQ YD)
4+88	TO	25+00	MAIN PARK ROAD					2735.53		280.10	344.03						4026.50		49.46			
25+00	TO	169+09.05	MAIN PARK ROAD	189.97	123.72		820.66	22996.41		2362.00	2833.35	221.67	26.04			243.13	33371.78		357.45			
170+22.55	TO	206+32	MAIN PARK ROAD	11.89				5699.81		584.42	716.12		23.33			22.32	8396.96		89.64			
206+32	TO	221+42	MAIN PARK ROAD					2245.13		226.46	289.99						3356.70		37.18			
0+14	TO	5+03	N MAIN PARK ROAD					905.34	38.05	84.23	132.57						1457.39		9.80			
5+23	TO	12+97.42	N MAIN PARK ROAD	14.16				1328.76		137.80	163.68		24.44			24.42	1937.67		20.52			
14+47.58	TO	79+99	N MAIN PARK ROAD	14.90				10899.33		1123.31	1357.56		25.45			24.63	15988.65		159.03			
79+99	TO	101+48	N MAIN PARK ROAD		4858.69									6.41	57.70			57.70		4858.69	2623.69	
0+09	TO	1+10	WEST PARK ENTRANCE		243.38			109.52			24.63								3.38			170.09
0+11	TO	6+00	MARINA ROAD					1304.84		139.25	161.06						1908.84		17.30			
0+11	TO	1+39	EAST PARK ENTRANCE					192.97	27.66	12.70	39.64						384.67		4.16			
0+11	TO	16+24	CIRCLE DRIVE		2268.99			1021.05			250.85								38.57			
0+11	TO	7+56	WHIPPOORWILL		1223.51			550.58			135.39								19.66			
8+21	TO	8+40	WHIPPOORWILL																			
0+07	TO	2+48	N WHIPPOORWILL		374.23			168.40			41.45								6.64			
0+11	TO	9+06	SASSAFRAS		1677.59			754.92			186.06								21.89			
0+11	TO	7+66	BLACK OAK		1236.01			556.20			136.89								16.82			
0+10	TO	5+92	WHITE OAK		1080.28			486.13			119.81								15.76			
0+10	TO	48+98	STAGECOACH		8227.42			30.46			3.77									8159.74	4406.26	
0+11	TO	18+95	NW PARK ROAD		2767.08	319.42	65.63				3.24											
0+11	TO	9+21	OAK ROAD A					822.25			156.45						1944.71		15.07			
0+11	TO	12+54	OAK LOOP A					1024.26			191.86						2098.74		13.35			
0+11	TO	8+27	OAK ROAD B					652.44			123.16			7.56	68.07		1428.49	68.19	11.10			
0+11	TO	10+91	OAK LOOP B					1081.67			202.65						2374.97		14.69			
0+11	TO	12+57	OAK LOOP C					1192.94			223.14						2617.29		15.70			
			SUBTOTAL	230.92	24080.90	319.42	886.29	56758.93	65.71	4950.27	7837.34	221.67	99.26	13.97	125.77	314.50	81293.38	125.89	937.17	13018.43	7029.95	170.09
			PAY TOTAL	231	24081*	319*	887*	56759*	66	4950*	7837*	222	100	14*	126	315*	81293*	126	937*	13019*	7030*	170*

* NOT A TOTAL QUANTITY

MODEL: $MODELNAMES
FILE NAME: pw:\\projectwise.volkert.com:volkert-ic-pw\Documents\Projects\1150903 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\52207-SH-Schedules.dgn

VOLKERT

USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.1667 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: | SHEET 1 OF 13 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	15
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		

PARKING LOT SCHEDULE

LOCATION		PREPARATION OF BASE	AGGREGATE SURFACE COURSE, TYPE B	FIBER-MODIFIED ASPHALT CRACK SEALING	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT BINDER COURSE, IL-9.5 FG, N50	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5 MIX "C", N50	PROTECTIVE COAT	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	CRACK ROUTING (PAVEMENT)	AGGREGATE SHOULDERS, TYPE B 6"	AGGREGATE WEDGE SHOULDERS, TYPE B	GUARD POSTS	PARKING LOT SEAL COAT	BITUMINOUS SURFACE TREATMENT, A3	BITUMINOUS MATERIALS (FOG SEAL)
PARKING LOT	ROADWAY	(SQ YD)	(TON)	(FOOT)	(POUND)	(POUND)	(TON)	(TON)	(SQ YD)	(SQ YD)	(FOOT)	(SQ YD)	(TON)	(EACH)	(SQ YD)	(SQ YD)	(POUND)
HUNTER CHECK STATION	MAIN PARK ROAD					1188.78		220.89					7.23				
NO. 18 (BOSTON POND)	MAIN PARK ROAD	401.84			61.63			1.52				16.67		11		374.82	202.40
NO. 14	MAIN PARK ROAD	2719.41			56.11			1.39								2694.76	1455.17
NO. 13	MAIN PARK ROAD	528.30			1188.66			59.04				43.67	0.97	25			
NO. 12	MAIN PARK ROAD	630.49			1418.60			70.30				77.21	1.08	44			
NO. 11 (HENNEMAN TRAIL)	MAIN PARK ROAD	239.71			539.34			26.65				22.04	1.90	14			
PERSIMMON PICNIC AREA	MAIN PARK ROAD	643.94			1448.87			71.82				22.33	3.08	14			
NO. 9	MAIN PARK ROAD	520.84	58.32		56.42			2.79									
NO. 8 (MARLOW POND TRAIL)	MAIN PARK ROAD	352.50			793.11			39.24				24.50	2.14	15			
LAKESIDE	MAIN PARK ROAD	668.43			1503.97			74.77					4.65				
NO. 6 (CATTAIL TRAIL)	MAIN PARK ROAD	242.63			545.91			26.98				29.40	1.42	18			
LOOKOUT POINT PICNIC AREA	MAIN PARK ROAD	525.52			1182.42			58.60				66.67	0.99	38			
LAKEVIEW BOAT ACCESS (1)	MAIN PARK ROAD					24.58		3.06							1633.23		
LAKEVIEW BOAT ACCESS (2)	MAIN PARK ROAD					109.40		13.65							6476.49		
NO. 4	MAIN PARK ROAD	1657.63	193.02		132.38			6.54									
ROCKY POINT BEACH	MAIN PARK ROAD			1354.51							1354.51				2462.57		
SITE OFFICE BUS & RV	N MAIN PARK ROAD					53.50		11.70					0.17				
SITE OFFICE A	N MAIN PARK ROAD					125.91		27.46					0.27				
SITE OFFICE B	N MAIN PARK ROAD	783.28			1762.37			87.09					6.97				
NO. 15	N MAIN PARK ROAD	100.21			225.47			11.17									
WASTE STATION	N MAIN PARK ROAD					402.04		74.85					2.45				
OLD WASTE STATION	N MAIN PARK ROAD																
FISH CLEANING STATION	N MAIN PARK ROAD					11.39		1.42							389.00		
OAK RIDGE CAMPGROUND (1)	N MAIN PARK ROAD					59.09		12.46					0.16				
OAK RIDGE CAMPGROUND (2)	N MAIN PARK ROAD					33.47		4.18							117.25		
TENT CAMPGROUND (1)	N MAIN PARK ROAD	268.17										58.44		33		268.17	144.81
TENT CAMPGROUND (2)	N MAIN PARK ROAD	229.36										41.84		24		229.36	123.86
TENT CAMPGROUND (3)	N MAIN PARK ROAD	596.62										60.88		35		596.62	322.17
MARINA RESTAURANT	MARINA ROAD				12265.76	1225.81	381.48	457.47					3.81				
CIRCLE DRIVE PICNIC AREA (1)	CIRCLE DRIVE	549.97			1237.43			61.51				48.86	1.11	28			
CIRCLE DRIVE PICNIC AREA (2)	CIRCLE DRIVE	480.21			1080.46			53.67				33.29	1.30	20			
WHIPPOORWILL YOUTH AREA (1)	N WHIPPOORWILL	567.86			1277.69			63.28				47.67	2.17	27			
WHIPPOORWILL YOUTH AREA (2)	WHIPPOORWILL	217.09	25.33														
WHIPPOORWILL YOUTH AREA (3)	WHIPPOORWILL	638.10			1435.72			71.13	35.56	35.56		56.61	2.13	34			
SASSAFRAS PICNIC AREA (1)	SASSAFRAS	676.87			1522.96			75.48				39.20	3.52	23			
SASSAFRAS PICNIC AREA (2)	SASSAFRAS	1217.33			2738.99			135.72				74.00	5.43	44			
SASSAFRAS PICNIC AREA (3)	SASSAFRAS	650.41			1463.43			72.51				34.30	2.91	20			
BLACK OAK PICNIC AREA (1)	BLACK OAK	260.55			586.25			29.15				71.15	0.60	42			
BLACK OAK PICNIC AREA (2)	BLACK OAK	411.71			926.35			45.85				39.38	1.68	23			
WHITE OAK PICNIC AREA	WHITE OAK	1333.90			3001.27			148.48				30.00	10.27	18			
NO. X	STAGECOACH	415.80	48.51														
PHILLIPS CREEK TRAIL (1)	STAGECOACH	51.92										10.33		7		51.92	28.04
PHILLIPS CREEK TRAIL (2)	STAGECOACH	75.78										9.05		6		75.78	40.92
STAGECOACH PICNIC AREA	STAGECOACH	1258.82										264.83		112		1258.82	679.76
NO. 1	STATE PARK ROAD	128.98	15.05														
NO. 2	OLEARY ROAD	93.42	10.90														
NO. 16	NW PARK ROAD	122.71	14.32														
NO. 17	NW PARK ROAD	597.65	69.73														
NO. 19	OMEGA ROAD	112.06	13.07														
NO. 20	OMEGA ROAD	470.90	54.94														
	SUBTOTAL	21440.90	503.18	1354.51	38451.57	3233.98	381.48	2121.82	35.56	35.56	1354.51	1222.31	68.41	675	11078.54	5550.26	2997.14
	PAY TOTAL	21441*	503*	1355	38452*	3234*	382*	2122*	36*	36	1355	1223	69*	675	11079	5550*	2997*

* NOT A TOTAL QUANTITY

PARKING LOT REMOVAL SCHEDULE

LOCATION		PAVEMENT REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"	DRIVEWAY PAVEMENT REMOVAL	TIMBER CURB REMOVAL	SCARIFY EXISTING SURFACE	STUMP REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	GUARD POSTS REMOVAL
PARKING LOT	ROADWAY	(SQ YD)	(SQ YD)	(SQ YD)	(FOOT)	(SQ YD)	(EACH)	(SQ YD)	(EACH)
HUNTER CHECK STATION	MAIN PARK ROAD		2617.56						
NO. 18 (BOSTON POND)	MAIN PARK ROAD								
NO. 14	MAIN PARK ROAD								
NO. 13	MAIN PARK ROAD								18
NO. 12	MAIN PARK ROAD								48
NO. 11 (HENNEMAN TRAIL)	MAIN PARK ROAD								6
PERSIMMON PICNIC AREA	MAIN PARK ROAD								15
NO. 9	MAIN PARK ROAD								
NO. 8 (MARLOW POND TRAIL)	MAIN PARK ROAD								12
LAKESIDE	MAIN PARK ROAD								
NO. 6 (CATTAIL TRAIL)	MAIN PARK ROAD								
LOOKOUT POINT PICNIC AREA	MAIN PARK ROAD								23
LAKEVIEW BOAT ACCESS (1)	MAIN PARK ROAD								
LAKEVIEW BOAT ACCESS (2)	MAIN PARK ROAD								
NO. 4	MAIN PARK ROAD								
ROCKY POINT BEACH	MAIN PARK ROAD								
SITE OFFICE BUS & RV	N MAIN PARK ROAD		119.99						
SITE OFFICE A	N MAIN PARK ROAD		280.67						
SITE OFFICE B	N MAIN PARK ROAD								
NO. 15	N MAIN PARK ROAD								
WASTE STATION	N MAIN PARK ROAD		838.08						
OLD WASTE STATION	N MAIN PARK ROAD	121.82							
FISH CLEANING STATION	N MAIN PARK ROAD								
OAK RIDGE CAMPGROUND (1)	N MAIN PARK ROAD		131.42						
OAK RIDGE CAMPGROUND (2)	N MAIN PARK ROAD								
TENT CAMPGROUND (1)	N MAIN PARK ROAD								
TENT CAMPGROUND (2)	N MAIN PARK ROAD								
TENT CAMPGROUND (3)	N MAIN PARK ROAD								8
MARINA RESTAURANT	MARINA ROAD					5444.00		373.33	
CIRCLE DRIVE PICNIC AREA (1)	CIRCLE DRIVE							23.03	
CIRCLE DRIVE PICNIC AREA (2)	CIRCLE DRIVE							3.97	
WHIPPOORWILL YOUTH AREA (1)	N WHIPPOORWILL								29
WHIPPOORWILL YOUTH AREA (2)	WHIPPOORWILL								
WHIPPOORWILL YOUTH AREA (3)	WHIPPOORWILL			35.01					16
SASSAFRAS PICNIC AREA (1)	SASSAFRAS							22.94	23
SASSAFRAS PICNIC AREA (2)	SASSAFRAS				71.35				40
SASSAFRAS PICNIC AREA (3)	SASSAFRAS								
BLACK OAK PICNIC AREA (1)	BLACK OAK								
BLACK OAK PICNIC AREA (2)	BLACK OAK								13
WHITE OAK PICNIC AREA	WHITE OAK								36
NO. X	STAGECOACH								
PHILLIPS CREEK TRAIL (1)	STAGECOACH								
PHILLIPS CREEK TRAIL (2)	STAGECOACH								
STAGECOACH PICNIC AREA	STAGECOACH								136
NO. 1	STATE PARK ROAD						2		
NO. 2	OLEARY ROAD								
NO. 16	NW PARK ROAD								
NO. 17	NW PARK ROAD								
NO. 19	OMEGA ROAD								
NO. 20	OMEGA ROAD								
	SUBTOTAL	121.82	3987.72	35.01	71.35	5444.00	2	423.27	423
	PAY TOTAL	122*	3988*	35	72	5444	2	424*	423

* NOT A TOTAL QUANTITY

PAVEMENT PATCHING SCHEDULE

LOCATION		AGGREGATE BASE COURSE, TYPE B, 8"	CLASS C PATCHES, TYPE IV, 8 INCH	CLASS D PATCHES, TYPE IV, 8 INCH	CLASS D PATCHES, TYPE II, 11 INCH	CLASS D PATCHES, TYPE III, 11 INCH	CLASS D PATCHES, TYPE IV, 11 INCH
STATION	ROADWAY	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)
16+38	MAIN PARK ROAD					18.2	
19+32	MAIN PARK ROAD					15.0	
94+75	MAIN PARK ROAD					20.1	
96+59	MAIN PARK ROAD					17.3	
113+90	MAIN PARK ROAD						54.8
116+72	MAIN PARK ROAD						46.9
119+48	MAIN PARK ROAD						56.9
120+73	MAIN PARK ROAD					17.3	
1+27	EAST PARK ENTRANCE					22.1	
4+03	N MAIN PARK ROAD						25.6
1+89	SASSAFRAS	12.6					
0+22	NW PARK ROAD	11.7					
3+78	OAK ROAD A				10.7		
8+82	OAK ROAD A				10.9		
2+93	OAK LOOP A				10.6		
0+56	OAK ROAD B				11.4		
4+74	OAK ROAD B				10.0		
2+99	OAK LOOP B					15.3	
0+21	OAK LOOP C						25.6
PARKING LOT	ROADWAY						
NO. 14	MAIN PARK ROAD	14.1					
NO. 12	MAIN PARK ROAD	12.2					
NO. 8 (MARLOW POND TRAIL)	MAIN PARK ROAD	12.4					
NO. 6 (CATTAIL TRAIL)	MAIN PARK ROAD	11.9					
NO. 4	MAIN PARK ROAD	29.2					
OAK RIDGE CAMPGROUND (1)	N MAIN PARK ROAD		28.8	27.3			
SASSAFRAS PICNIC AREA (2)	SASSAFRAS	31.8					
NO. 19	OMEGA ROAD	13.7					
	SUBTOTAL	149.6	28.8	27.3	53.6	125.3	209.8
	PAY TOTAL	150*	29	28	54	126	210

* NOT A TOTAL QUANTITY

OAK RIDGE CAMPGROUND SCHEDULE

LOCATION				AGGREGATE BASE COURSE, TYPE B 8"	PREPARATION OF BASE	AGGREGATE SURFACE COURSE, TYPE B	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5 MIX "C", N50	HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"	CLASS D PATCHES, TYPE II, 6 INCH	CLASS D PATCHES, TYPE III, 6 INCH	AGGREGATE WEDGE SHOULDER, TYPE B	PRECAST CONCRETE PARKING BLOCK	CAMPSITE MARKER
CAMPSITE NO.	ROADWAY	SIDE	CAMPSITE LENGTH	(SQ YD)	(SQ YD)	(TON)	(POUND)	(POUND)	(TON)	(SQ YD)	(SQ YD)	(SQ YD)	(TON)	(EACH)	(EACH)
1A	OAK ROAD A	LT						69.63	12.93	153.05		15.4	0.71		1
1	OAK ROAD A	RT			145.63	16.99									1
2	OAK ROAD A	RT			154.21	17.99									1
3	OAK ROAD A	LT	57.4		147.92	5.36	186.60		9.17				1.08	1	1
4	OAK ROAD A	RT			143.29	16.72									1
5	OAK ROAD A	LT	66.6		176.60	7.11	213.26		10.48				1.20	1	1
6	OAK ROAD A	RT			103.61	12.09									1
7	OAK ROAD A	LT	66.1		182.01	7.37	219.51		10.79				1.21	1	1
8	OAK ROAD A	LT	68.5		188.37	7.83	226.99		11.16				1.16	1	1
9	OAK ROAD A	LT	75.7		182.61	6.19	243.34		11.96				1.24	1	1
10	OAK ROAD A	RT			115.79	13.51									1
10A	OAK ROAD A	RT			181.35	21.16									1
11	OAK ROAD A	LT	67.8		166.75	5.21	218.67		10.75				1.44	1	1
12	OAK ROAD A	RT			135.74	15.84									1
13	OAK ROAD A	LT	77.2		181.63	4.84	247.34		12.15				1.73	1	1
14/16	OAK ROAD A	RT			379.60	44.29									2
15	OAK ROAD A	LT	66.0		175.60	6.24	191.15		9.37				1.37	1	1
17	OAK ROAD A	LT	66.6		202.51	9.87	192.27		9.43				1.17	1	1
18	OAK ROAD A	RT			107.00	12.48									1
19	OAK ROAD A	LT	66.7		168.94	6.29	212.01		10.42				1.31	1	1
20	OAK ROAD A	RT			171.68	20.03									1
21	OAK ROAD A	RT			156.93	18.31									1
22	OAK LOOP A	RT			170.65	19.91									1
23/24	OAK LOOP A	RT			414.76	48.39									2
25	OAK LOOP A	RT	66.3		187.51	7.47	226.36		11.13				1.41	1	1
26	OAK LOOP A	RT	69.7		182.73	6.25	233.66		11.49				1.38	1	1
27	OAK LOOP A	RT			190.05	22.17									1
28	OAK LOOP A	RT			253.09	29.53									1
29	OAK LOOP A	LT			130.40	15.21									1
30	OAK LOOP A	LT			134.83	15.73									1
31	OAK LOOP A	LT			145.93	17.03									1
32	OAK LOOP A	LT			145.94	17.03									1
33	OAK LOOP A	RT	88.5		236.59	9.58	288.69		14.22				1.53		1
34	OAK LOOP A	LT			240.81	28.10									1
35	OAK LOOP A	RT	73.3		179.34	5.50	234.90		11.54				1.62	1	1
36	OAK LOOP A	LT			164.07	19.14									1
37	OAK LOOP A	RT	75.7		188.77	6.54	242.05		11.90				1.46	1	1
38/40	OAK LOOP A	LT			388.29	45.30									2
39	OAK LOOP A	RT	68.0		180.96	7.15	218.51		10.74				1.29	1	1
41	OAK LOOP A	RT	52.6		147.21	5.93	172.94		8.50				1.09	1	1
42	OAK LOOP A	LT			145.09	16.93									1
43	OAK LOOP A	RT	61.5	20.62	150.04	4.48	200.59		9.86				1.27	1	1
44	OAK LOOP A	LT			180.77	21.09									1
45	OAK LOOP A	RT	62.6		163.44	5.89	203.43		10.00				1.28	1	1
46	OAK LOOP A	LT			129.75	15.14									1
47	OAK LOOP A	RT	62.5		161.63	5.55	203.96		10.02				1.34	1	1
48	OAK LOOP A	LT			124.98	14.58									1
49	OAK LOOP A	RT	65.1		164.67	5.68	209.59		10.30				1.31	1	1
50	OAK LOOP A	LT			78.16	9.12									1
51	OAK LOOP A	RT	61.1		153.20	5.27	197.70		9.72				1.17	1	1
52	OAK LOOP A	LT			164.56	19.20									1
53	OAK ROAD B	LT			131.24	15.31									1
53A	OAK ROAD B	RT						87.94	16.31	192.95	27.0		0.96		1
54	OAK ROAD B	LT			165.25	19.28									1
55	OAK ROAD B	LT			109.46	12.77									1
56	OAK ROAD B	RT			157.14	18.33									1
57	OAK ROAD B	LT			136.39	15.91									1
58	OAK ROAD B	RT			165.87	19.35									1
59	OAK ROAD B	LT						34.03	6.29	74.03	9.3		0.61	1	1
60	OAK ROAD B	RT	69.0		190.05	8.37	222.83		10.95				1.11	1	1

MODEL: $MODELNAMES
FILE NAME: pw:\\projectwise.volkert.com:volkert-us-pw\Documents\Projects\1150903 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\52207-SH-Schedules.dgn

VOLKERT

USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.1667 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: | SHEET 4 OF 13 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	18
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		

OAK RIDGE CAMPGROUND SCHEDULE CONT.

LOCATION				AGGREGATE BASE COURSE, TYPE B 8"	PREPARATION OF BASE	AGGREGATE SURFACE COURSE, TYPE B	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5 MIX "C", N50	HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"	CLASS D PATCHES, TYPE II, 6 INCH	CLASS D PATCHES, TYPE III, 6 INCH	AGGREGATE WEDGE SHOULDER, TYPE B	PRECAST CONCRETE PARKING BLOCK	CAMPSITE MARKER
CAMPSITE NO.	ROADWAY	SIDE	CAMPSITE LENGTH	(SQ YD)	(SQ YD)	(TON)	(POUND)	(POUND)	(TON)	(SQ YD)	(SQ YD)	(SQ YD)	(TON)	(EACH)	(EACH)
61	OAK ROAD B	LT						38.52	7.13	84.07	11.8		0.63	1	1
62	OAK ROAD B	RT	63.5		166.65	6.11	204.40		10.04				1.36	1	1
63	OAK ROAD B	LT			119.88	13.99									1
64	OAK ROAD B	RT	70.5		193.94	8.05	226.38		11.13				1.40	1	1
66	OAK ROAD B	RT	65.5		163.53	5.26	211.35		10.39				1.41	1	1
67/69	OAK ROAD B	LT			275.53	32.15									2
68	OAK ROAD B	RT	75.6		189.41	6.53	213.44		10.47				1.39	1	1
70	OAK ROAD B	RT			153.65	17.93									1
71	OAK ROAD B	LT			110.76	12.92									1
73	OAK ROAD B	LT			113.13	13.20									1
74	OAK ROAD B	LT			181.39	21.16									1
75	OAK LOOP B	LT			116.60	13.60									1
76	OAK LOOP B	LT			144.79	16.89									1
77	OAK LOOP B	LT			121.32	14.15									1
78	OAK LOOP B	LT			132.93	15.51									1
78A	OAK LOOP B	RT			96.94	11.31									1
79	OAK LOOP B	LT			152.45	17.79									1
80	OAK LOOP B	LT			134.16	15.65									1
81	OAK LOOP B	LT			189.65	22.13									1
82	OAK LOOP B	LT			190.06	22.17									1
83	OAK LOOP B	RT			585.09	68.26									1
84	OAK LOOP B	RT			377.79	44.08									1
85	OAK LOOP B	RT			174.99	20.42									1
86	OAK LOOP B	LT	79.4		221.37	8.34	276.50		13.63				1.42		1
87	OAK LOOP B	RT			171.51	20.01									1
88	OAK LOOP B	LT			227.75	26.57									1
89	OAK LOOP B	RT			258.22	30.13									1
90	OAK LOOP B	LT			165.66	19.33									1
91	OAK LOOP B	LT			131.02	15.29									1
92	OAK LOOP C	RT			276.74	32.29									1
93	OAK LOOP C	LT			135.88	15.85									1
94	OAK LOOP C	RT			163.52	19.08									1
95	OAK LOOP C	LT			142.08	16.58									1
96	OAK LOOP C	LT			147.17	17.17									1
97	OAK LOOP C	LT			102.90	12.01									1
98	OAK LOOP C	RT			138.06	16.11									1
99	OAK LOOP C	LT			77.61	9.05									1
100	OAK LOOP C	RT			135.02	15.75									1
101	OAK LOOP C	LT			80.74	9.42									1
102	OAK LOOP C	RT			94.41	11.01									1
103/104	OAK LOOP C	RT			180.62	21.07									2
105/106	OAK LOOP C	RT			166.62	19.44									2
107/109	OAK LOOP C	LT			240.68	28.08									2
108	OAK LOOP C	RT			130.60	15.24									1
110	OAK LOOP C	RT			94.21	10.99									1
111/112	OAK LOOP C	LT			405.83	47.35									2
113	OAK LOOP C	LT			214.45	25.02									1
114/115	OAK LOOP C	RT			319.57	37.28									2
116/116A	OAK LOOP C	RT			484.18	56.49									2
117	OAK LOOP C	RT			321.19	37.47									1
			SUBTOTAL	20.62	19233.73	1845.56	6138.42	230.11	344.38	504.10	48.1	15.4	40.05	28	120
			PAY TOTAL	21*	19234*	1846*	6138*	230*	345*	504*	49	16	40*	28*	120*

* NOT A TOTAL QUANTITY

MODEL: $MODELNAME$
FILE NAME: pw:\\projectwise.volkert.com:volkert-us-pw\Documents\Projects\1150903 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\522007-SH-Schedules.dgn

VOLKERT

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: | SHEET 5 OF 13 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	19
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		

EQUESTRIAN CAMPGROUND SCHEDULE

LOCATION					AGGREGATE BASE COURSE, TYPE B, 8"	PREPARATION OF BASE	AGGREGATE SURFACE COURSE, TYPE B	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5 MIX "C", N50	HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"	AGGREGATE WEDGE SHOULDER, TYPE B	BITUMINOUS SURFACE TREATMENT, A3	CAMPSITE MARKER	BITUMINOUS MATERIAL (FOG SEAL)
STATION	TO	STATION	ROADWAY	SIDE	(SQ YD)	(SQ YD)	(TON)	(POUND)	(TON)	(SQ YD)	(TON)	(SQ YD)	(EACH)	(POUND)
0+09	TO	4+80	EQUESTRIAN LOOP A	LT/RT	176.49	678.34						854.83		461.61
10+10	TO	19+29	EQUESTRIAN LOOP B	LT/RT		1276.07						1276.07		689.08
			EQUESTRIAN CAMPGROUND PARKING LOT			4596.39	268.12							
CAMPSITE NO.			ROADWAY	SIDE										
1			EQUESTRIAN LOOP A	LT		75.66	8.83						1	
2			EQUESTRIAN LOOP A	RT		131.20	15.31						1	
4			EQUESTRIAN LOOP A	RT		86.35	10.07						1	
5			EQUESTRIAN LOOP A	RT		80.38	9.38						1	
6			EQUESTRIAN LOOP A	RT		73.01	8.52						1	
7			EQUESTRIAN LOOP B	RT		81.40	9.50						1	
8			EQUESTRIAN LOOP B	RT		88.41	10.31						1	
9			EQUESTRIAN LOOP B	RT		77.22	9.01						1	
10			EQUESTRIAN LOOP B	RT		98.87	11.54						1	
11			EQUESTRIAN LOOP B	RT		75.35	8.79						1	
12			EQUESTRIAN LOOP B	RT		83.70	9.77						1	
13			EQUESTRIAN LOOP B	RT		79.76	9.31						1	
14			EQUESTRIAN LOOP B	RT		93.21	10.87						1	
15			EQUESTRIAN LOOP B	RT		75.61	8.82						1	
16			EQUESTRIAN LOOP B	RT		97.41	11.36						1	
17			EQUESTRIAN LOOP B	RT		107.97	12.60						1	
18			EQUESTRIAN LOOP B	RT		80.29	9.37						1	
19			EQUESTRIAN LOOP B	RT				68.49	12.68	149.69	0.88		1	
20			EQUESTRIAN LOOP B	RT		85.79	10.01						1	
21			EQUESTRIAN LOOP B	RT		104.52	12.19						1	
				SUBTOTAL	176.49	8226.90	463.67	68.49	12.68	149.69	0.88	2130.91	20	1150.69
				PAY TOTAL	177*	8227*	464*	69*	13*	150*	1*	2131*	20*	1151*

* NOT A TOTAL QUANTITY

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION (CU YD)	FOR INFORMATION ONLY			REMARKS
		EARTH EXCAVATION ADJUSTED FOR SHRINKAGE 25% (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)	
EQUESTRIAN CAMPGROUND	89	71	0	71	
OAK RIDGE CAMPGROUND (SITE NO. 43)	5	4	0	4	
SUBTOTAL	94	75	0	75	
PAY TOTAL	95	75	0	75	DISPOSE OF EXCESS IN ACCORDANCE WITH 202.03

GATE SCHEDULE

LOCATION		TUBULAR STEEL GATE (EACH)	COMMENTS
STATION	ROADWAY		
189+70	MAIN PARK ROAD	1	EXISTING GATE AT THE INTERSECTION OF MAIN PARK ROAD AND EAST PARK ENTRANCE TO BE REMOVED
210+80	MAIN PARK ROAD	1	EXISTING GATE TO BE REMOVED
0+45	EAST PARK ENTRANCE	1	
	SUBTOTAL	3	
	PAY TOTAL	3	

TREE REMOVAL SCHEDULE

LOCATION					TREE REMOVAL (6 TO 15 UNITS DIAMETER) (UNIT)	TREE REMOVAL (OVER 15 UNITS DIAMETER) (UNIT)
STATION	OFFSET	SIDE	ROADWAY	DESCRIPTION		
2+66	25.10	RT	OAK LOOP A	CAMPSITE NO. 49	12	
3+36	42.98	RT	OAK LOOP A	CAMPSITE NO. 47	14	
8+75	19.00	LT	WHIPPOORWILL	WHIPPOORWILL YOUTH AREA PARKING LOT (3)		18
				SUBTOTAL	26	18
				PAY TOTAL	26	18

GUARDRAIL SCHEDULE

LOCATION			REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A (FOOT)
STATION	SIDE	ROADWAY	
62+56.22	RT	MAIN PARK ROAD	112.5
		SUBTOTAL	112.5
		PAY TOTAL	112.5

PARK ROADS DRAINAGE SCHEDULE

LOCATION			TRENCH BACKFILL	INLET AND PIPE PROTECTION (SEE NOTE 1)	STONE DUMPED RIPRAP, CLASS A4	PIPE CULVERT REMOVAL	PIPE CULVERTS						PRECAST REINFORCED CONCRETE FLARED END SECTIONS					METAL FLARED END SECTIONS	GRADING AND SHAPING DITCHES	REMOVE EXISTING FLARED END SECTION
							CLASS A, TYPE 1			CLASS A, TYPE 2										
STATION	ROADWAY	SIDE	(CU YD)	(EACH)	(SQ YD)	(FOOT)	8" (FOOT)	12" (FOOT)	15" (FOOT)	15" (FOOT)	18" (FOOT)	24" (FOOT)	8" (EACH)	12" (EACH)	15" (EACH)	18" (EACH)	24" (EACH)	18" (EACH)	(SPECIAL) (FOOT)	(EACH)
16+37	MAIN PARK ROAD	LT/RT	2.67	1		25.98			26						2					
16+39	MAIN PARK ROAD	LT/RT	2.92	1		25.98		26						2						
19+32	MAIN PARK ROAD	LT/RT	4.39	1		34.76				35					2					
36+04	MAIN PARK ROAD	RT	3.01	1		27.50		28						2						
57+16	MAIN PARK ROAD	RT	2.46	1		21.02		22						2					40	
76+81	MAIN PARK ROAD	LT/RT		1	22.22														20	
88+23	MAIN PARK ROAD	LT/RT		1	22.22														20	
94+75	MAIN PARK ROAD	LT/RT	8.90	1		43.86					44					2				
96+59	MAIN PARK ROAD	LT/RT	5.13	1		33.93					34					2				
99+22	MAIN PARK ROAD	LT			22.22															
110+25	MAIN PARK ROAD	RT		1															20	
113+90	MAIN PARK ROAD	LT/RT	23.51	1		57.90					58					2				
116+02	MAIN PARK ROAD	RT	2.79	1		23.14		24						2						
116+72	MAIN PARK ROAD	LT/RT	21.65	1		52.31					53					2				
119+48	MAIN PARK ROAD	LT/RT	27.39	1		74.94					75					2				
120+73	MAIN PARK ROAD	LT/RT	6.43	1		41.75					42					2				
142+52	MAIN PARK ROAD	RT																1		1
145+81	MAIN PARK ROAD	RT	2.55	1		19.63		20						2						
174+29	MAIN PARK ROAD	LT		1															20	
182+83	MAIN PARK ROAD	LT			22.22															
194+84	MAIN PARK ROAD	LT			22.22															
202+21	MAIN PARK ROAD	LT/RT			44.44															
217+69	MAIN PARK ROAD	LT	2.94	1		27.77	28						2						42	
218+35	MAIN PARK ROAD	LT	3.60	1		27.82	28						2						42	
4+03	N MAIN PARK ROAD	LT/RT	8.87	1		66.75						67					2			
55+93	N MAIN PARK ROAD	LT		1															20	
77+51	N MAIN PARK ROAD	RT	7.87	1		55.84	57						2							
80+38	N MAIN PARK ROAD	RT	1.09	1		8.49	11						2							
1+27	EAST PARK ENTRANCE	LT/RT	3.93	1		41.26			42						2				80	
0+20	WHIPPOORWILL	LT		1															20	
1+89	SASSAFRAS	LT/RT	3.34	1		33.74			34						2					
6+29	SASSAFRAS	LT	3.38	1		32.41		33						2						
7+47	SASSAFRAS	LT	3.04	1		30.12		31						2						
6+01	WHITE OAK	RT	1.58	1		11.42		12						2						
22+49	STAGECOACH	LT		1															20	
0+22	NW PARK ROAD	LT/RT	2.84	1		34.11	35						2							
3+78	OAK ROAD A	LT/RT	2.39	1		24.23		25						2						
8+82	OAK ROAD A	LT/RT	2.42	1		25.00		25						2						
2+93	OAK LOOP A	LT/RT	2.72	1		23.57		24						2						
0+56	OAK ROAD B	LT/RT	2.53	1		25.43		27						2						
3+63	OAK ROAD B	RT	1.31	1		13.08	14						2							
4+74	OAK ROAD B	LT/RT	2.48	1		18.80	22						2							
2+99	OAK LOOP B	LT/RT	3.19	1		29.74		32						2						
0+21	OAK LOOP C	LT/RT	5.82	1		44.39	45						2							
	OMEGA ROAD	RT	2.42	1		19.88			20						2					
		SUBTOTAL	181.56	40	155.56	1076.55	240	329	122	35	306	67	16	26	10	12	2	1	344	1
		PAY TOTAL	182*	40	156	1077*	240*	329	122	35	306	67	16	26	10	12	2	1	344	1

* NOT A TOTAL QUANTITY

NOTE 1: INLET AND PIPE PROTECTION TO BE INSTALLED AT UPSTREAM END OF ALL PROPOSED PARK ROAD CULVERTS.

VOLKERT

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: | SHEET 7 OF 13 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	21
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		

OAK RIDGE CAMPGROUND DRAINAGE SCHEDULE

LOCATION			TRENCH BACKFILL	PIPE CULVERT REMOVAL	PIPE CULVERTS, CLASS A, TYPE 1, 8"	PAVED FLUME
CAMPSITE NO.	ROADWAY	SIDE	(CU YD)	(FOOT)	(FOOT)	(FOOT)
1A	OAK ROAD A	LT	4.14	27.99	30	
1	OAK ROAD A	RT	2.95	17.78	28	
2	OAK ROAD A	RT	2.90	17.61	26	
3	OAK ROAD A	LT	3.45	17.73	25	
4	OAK ROAD A	RT	2.82	17.83	25	
5	OAK ROAD A	LT	3.17	17.70	23	
6	OAK ROAD A	RT	2.90	17.86	26	
7	OAK ROAD A	LT	3.45	17.83	25	
8	OAK ROAD A	LT	3.59	17.71	26	
9	OAK ROAD A	LT	3.59	17.63	26	
11	OAK ROAD A	LT	3.73		27	
13	OAK ROAD A	LT	3.17	17.15	23	
15	OAK ROAD A	LT		17.44		23
17	OAK ROAD A	LT		19.34		21
19/33	OAK ROAD A	LT	5.99	35.02	50	
21	OAK ROAD A	RT	3.04	17.68	26	
29	OAK LOOP A	LT	3.04	17.30	27	
30	OAK LOOP A	LT	3.02	17.45	27	
31	OAK LOOP A	LT	3.13	17.86	28	
32	OAK LOOP A	LT	3.08	17.50	28	
33 (SOUTH)	OAK LOOP A	RT	3.24	19.65	30	
34	OAK LOOP A	LT	3.45	17.47	30	
35	OAK LOOP A	RT	3.45	19.61	25	
36	OAK LOOP A	LT	3.22	17.69	29	
37	OAK LOOP A	RT	4.14	19.91	30	
38	OAK LOOP A	LT	3.16	17.54	29	
39	OAK LOOP A	RT	3.86	19.70	28	
40	OAK LOOP A	LT	3.27	17.72	29	
41	OAK LOOP A	RT	3.31	19.63	24	
42	OAK LOOP A	LT	3.11	17.62	28	
43	OAK LOOP A	RT	3.59	19.65	26	
44	OAK LOOP A	LT	2.46	13.54	23	
45	OAK LOOP A	RT	3.45	19.77	25	
46	OAK LOOP A	LT	3.71		33	
47	OAK LOOP A	RT	3.31	19.94	24	
48	OAK LOOP A	LT	3.28	19.57	29	
49	OAK LOOP A	RT	3.59	19.87	26	
51	OAK LOOP A	RT	3.45	19.92	25	
52	OAK LOOP A	LT	3.28	17.60	30	
53	OAK ROAD B	LT	3.01	17.53	25	
53A (NORTH)	OAK ROAD B	RT	3.45	18.29	25	
53A (SOUTH)	N MAIN PARK ROAD	LT		27.33		42
55	OAK ROAD B	LT	2.76	15.64	24	
56	OAK ROAD B	RT	2.95	17.68	26	
57	OAK ROAD B	LT	2.84	15.91	25	
58	OAK ROAD B	RT	3.11	16.50	27	
59	OAK ROAD B	LT	3.13	17.91	23	
60	OAK ROAD B	RT	3.11	17.54	23	
61	OAK ROAD B	LT	3.59	17.76	26	
62	OAK ROAD B	RT	3.31	17.75	24	
64	OAK ROAD B	RT	3.73	17.46	27	
66	OAK ROAD B	RT	3.73	17.71	27	
68	OAK ROAD B	RT				22
70	OAK ROAD B	RT	2.90	17.46	26	
71	OAK ROAD B	LT	3.42	17.67	30	
73	OAK ROAD B	LT	2.82	17.69	24	
75	OAK LOOP B	LT	2.94	18.25	26	
76	OAK LOOP B	LT	2.83	18.23	25	
77	OAK LOOP B	LT	3.06	18.56	27	
78	OAK LOOP B	LT	2.93	17.56	26	

OAK RIDGE CAMPGROUND DRAINAGE SCHEDULE CONT.

LOCATION			TRENCH BACKFILL	PIPE CULVERT REMOVAL	PIPE CULVERTS, CLASS A, TYPE 1, 8"	PAVED FLUME
CAMPSITE NO.	ROADWAY	SIDE	(CU YD)	(FOOT)	(FOOT)	(FOOT)
79	OAK LOOP B	LT	3.67	21.60	32	
80	OAK LOOP B	LT	3.42	17.94	30	
81	OAK LOOP B	LT	3.17	17.43	27	
85	OAK LOOP B	RT	3.02	17.77	27	
86 (NORTH)	OAK ROAD B	RT	3.59	21.86	26	
86 (SOUTH)	OAK LOOP B	LT	3.86	26.08	28	
87	OAK LOOP B	RT	3.04	19.57	26	
88 (NORTH)	OAK ROAD B	RT	3.42	24.99	29	
88 (SOUTH)	OAK LOOP B	LT	3.57	24.62	31	
89 (NORTH)	OAK LOOP B	RT	3.13	22.14	28	
89 (SOUTH)	N MAIN PARK ROAD	LT	3.74		35	
90	OAK LOOP B	LT	2.22	19.56	21	
91	OAK LOOP B	LT	3.28	21.40	28	
92	OAK LOOP C	RT	4.22	27.57	35	
93	OAK LOOP C	LT	3.39	19.38	29	
94	OAK LOOP C	RT	2.86	18.78	25	
95	OAK LOOP C	LT	2.98	19.55	26	
96	OAK LOOP C	LT	2.80	19.63	24	
97	OAK LOOP C	LT	3.06	19.63	26	
98	OAK LOOP C	RT	3.05	19.58	26	
99	OAK LOOP C	LT	3.05	17.78	26	
100	OAK LOOP C	RT	3.45	24.08	29	
101	OAK LOOP C	LT	3.22	19.59	27	
102	OAK LOOP C	RT	3.09	19.24	26	
105/106	OAK LOOP C	RT	6.44	37.16	50	
108	OAK LOOP C	RT	3.55	21.51	30	
110	OAK LOOP C	RT	3.37	17.61	28	
		SUBTOTAL	276.78	1617.28	2280	108
		PAY TOTAL	277*	1617*	2280*	108

* NOT A TOTAL QUANTITY

PARKING BLOCK SCHEDULE

LOCATION		EXISTING PARKING BLOCKS**	PROPOSED PARKING BLOCKS**	REMOVE AND REINSTALL PARKING BLOCKS	REMOVE EXISTING PARKING BLOCKS	PRECAST CONCRETE PARKING BLOCK	COMMENTS
PARKING LOT	ROADWAY			(EACH)	(EACH)		
NO. 18 (BOSTON POND)	MAIN PARK ROAD	11	0	11			REMOVE AND REINSTALL (11) AT ROCKY POINT BEACH
LAKESIDE	MAIN PARK ROAD	25	25	24	1	1	
NO. 6 (CATTAIL TRAIL)	MAIN PARK ROAD	10	5	10			REMOVE AND REINSTALL (5) AT ROCKY POINT BEACH
LAKEVIEW BOAT ACCESS (2)	MAIN PARK ROAD	42	42	21	21	21	
NO. 4	MAIN PARK ROAD	47	47	47			
ROCKY POINT BEACH	MAIN PARK ROAD	57	55		57	5	REINSTALL (50) BLOCKS FROM OTHER AREAS OF PARK
SITE OFFICE A	N MAIN PARK ROAD	10	9	10			REMOVE AND REINSTALL (1) AT ROCKY POINT BEACH
SITE OFFICE B	N MAIN PARK ROAD	10	9	10			REMOVE AND REINSTALL (1) AT ROCKY POINT BEACH
NO. 15	N MAIN PARK ROAD	0	5			5	
OAK RIDGE CAMPGROUND (1)	N MAIN PARK ROAD	0	5			5	
OAK RIDGE CAMPGROUND (2)	N MAIN PARK ROAD	1	5	1		4	
TENT CAMPGROUND (1)	N MAIN PARK ROAD	5	0	5			REMOVE AND REINSTALL (5) AT ROCKY POINT BEACH
TENT CAMPGROUND (2)	N MAIN PARK ROAD	12	0	12			REMOVE AND REINSTALL (12) AT ROCKY POINT BEACH
TENT CAMPGROUND (3)	N MAIN PARK ROAD	11	0	11			REMOVE AND REINSTALL (11) AT ROCKY POINT BEACH
CIRCLE DRIVE PICNIC AREA (1)	CIRCLE DRIVE	6	4	6			REMOVE AND REINSTALL (2) AT ROCKY POINT BEACH
CIRCLE DRIVE PICNIC AREA (2)	CIRCLE DRIVE	9	5	7	2		REMOVE AND REINSTALL (2) AT ROCKY POINT BEACH
WHIPPOORWILL YOUTH AREA (3)	WHIPPOORWILL	1	1	1			
	OAK LOOP A	4	0		4		
	SUBTOTAL	261	217	176	85	41	
	PAY TOTAL	261**	217**	176	85	41*	

* NOT A TOTAL QUANTITY

** FOR INFORMATION ONLY

PAVEMENT MARKING SCHEDULE

LOCATION				THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (SQ FT)	THERMOPLASTIC PAVEMENT MARKING - LINE 4"		THERMOPLASTIC PAVEMENT MARKING - LINE 6"	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	PAINT PAVEMENT MARKING - LINE 4"
STATION	TO	STATION	ROADWAY		SOLID WHITE (FOOT)	SKIP DASH YELLOW (FOOT)	SOLID YELLOW (FOOT)	SOLID WHITE (FOOT)	SOLID WHITE (FOOT)	SKIP DASH YELLOW (FOOT)
4+88	TO	25+00	MAIN PARK ROAD			484.0			9.0	
25+00	TO	169+09.05	MAIN PARK ROAD			3590.5			10.9	
169+09.05	TO	170+22.55	MAIN PARK ROAD							28.4
170+22.55	TO	221+42	MAIN PARK ROAD			1279.9				
0+49	TO	5+13	N MAIN PARK ROAD			102.5			12.1	
5+13	TO	12+97.42	N MAIN PARK ROAD			186.4			11.4	
12+97.42	TO	14+47.58	N MAIN PARK ROAD							37.5
14+47.58	TO	79+99	N MAIN PARK ROAD			1637.8			11.0	
PARKING LOT			ROADWAY							
HUNTER CHECK STATION			MAIN PARK ROAD		80.0					
NO. 18 (BOSTON POND)			MAIN PARK ROAD							
NO. 14			MAIN PARK ROAD							
NO. 13			MAIN PARK ROAD		140.0					
NO. 12			MAIN PARK ROAD		404.0					
NO. 11 (HENNEMAN TRAIL)			MAIN PARK ROAD		40.0					
PERSIMMON PICNIC AREA			MAIN PARK ROAD		408.5					
NO. 9			MAIN PARK ROAD							
NO. 8 (MARLOW POND TRAIL)			MAIN PARK ROAD		102.0					
LAKESIDE			MAIN PARK ROAD		442.0					
NO. 6 (CATTAIL TRAIL)			MAIN PARK ROAD		72.0					
LOOKOUT POINT PICNIC AREA			MAIN PARK ROAD		220.0					
LAKEVIEW BOAT ACCESS (1)			MAIN PARK ROAD	19.5	172.0			150.6		
LAKEVIEW BOAT ACCESS (2)			MAIN PARK ROAD	41.8	3260.0	52.4	917.0	133.9		
NO. 4			MAIN PARK ROAD							
ROCKY POINT BEACH			MAIN PARK ROAD	9.3	960.0		264.0			
SITE OFFICE BUS & RV			N MAIN PARK ROAD		105.0					
SITE OFFICE A			N MAIN PARK ROAD	3.1	160.0		151.0			
SITE OFFICE B			N MAIN PARK ROAD		295.0					
NO. 15			N MAIN PARK ROAD		68.0					
WASTE STATION			N MAIN PARK ROAD	26.0						
OLD WASTE STATION			N MAIN PARK ROAD							
FISH CLEANING STATION			N MAIN PARK ROAD	3.1	60.0		209.0			
OAK RIDGE CAMPGROUND (1)			N MAIN PARK ROAD	3.1	60.0		143.0			
OAK RIDGE CAMPGROUND (2)			N MAIN PARK ROAD	3.1	60.0		151.0			
TENT CAMPGROUND (1)			N MAIN PARK ROAD							
TENT CAMPGROUND (2)			N MAIN PARK ROAD							
TENT CAMPGROUND (3)			N MAIN PARK ROAD							
MARINA RESTAURANT			MARINA ROAD	9.3	2755.6		1050.0	117.5		
CIRCLE DRIVE PICNIC AREA (1)			CIRCLE DRIVE	3.1	180.0		161.0			
CIRCLE DRIVE PICNIC AREA (2)			CIRCLE DRIVE		323.0					
WHIPPOORWILL YOUTH AREA (1)			N WHIPPOORWILL		270.0					
WHIPPOORWILL YOUTH AREA (2)			WHIPPOORWILL							
WHIPPOORWILL YOUTH AREA (3)			WHIPPOORWILL	3.1	750.0		161.0			
SASSAFRAS PICNIC AREA (1)			SASSAFRAS	3.1	200.0		161.0			
SASSAFRAS PICNIC AREA (2)			SASSAFRAS		420.0					
SASSAFRAS PICNIC AREA (3)			SASSAFRAS							
BLACK OAK PICNIC AREA (1)			BLACK OAK		232.0					
BLACK OAK PICNIC AREA (2)			BLACK OAK		100.0					
WHITE OAK PICNIC AREA			WHITE OAK	26.0	392.0					
NO. X			STAGECOACH							
PHILLIPS CREEK TRAIL (1)			STAGECOACH							
PHILLIPS CREEK TRAIL (2)			STAGECOACH							
STAGECOACH PICNIC AREA			STAGECOACH	3.1			161.0			
NO. 1			STATE PARK ROAD							
NO. 2			OLEARY ROAD							
NO. 16			NW PARK ROAD							
NO. 17			NW PARK ROAD							
NO. 19			OMEGA ROAD							
NO. 20			OMEGA ROAD							
			SUBTOTAL	156.7	12731.1	7333.5	3529.0	402.0	54.4	65.9
			PAY TOTAL	157	20065		3529	402	55	66

VOLKERT

USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.1667 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: | SHEET 9 OF 13 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	23
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			

SIGN SCHEDULE

STATION	ROADWAY	SIDE	PARKING LOT	SIGN DESIGNATION	MUTCD SIGN NO.	SIGN DESCRIPTION	SIGN DIMENSIONS (IN. X IN.)	SIGN PANEL - TYPE 1 (SQ FT)	REMOVE SIGN PANEL ASSEMBLY - TYPE A (EACH)	RELOCATE SIGN PANEL ASSEMBLY - TYPE A (EACH)	WOOD SIGN SUPPORT (FOOT)	LARGE ENTRANCE SIGN (EACH)	SMALL ENTRANCE SIGN (EACH)	MINOR SIGN COMPLETE (EACH)	SIGN REMOVAL (EACH)	REMOVE AND RE-ERECT EXISTING SIGN (EACH)
0+35	WEST PARK ENTRANCE	LT			R1-1	STOP	30 X 30	6.25			14					
0+90	WEST PARK ENTRANCE	RT			R1-1	STOP	30 X 30	6.25			14					
10+70	MAIN PARK ROAD	RT			R2-1	SPEED LIMIT 15 MPH	24 X 30	5.00	1		14					
17+65	MAIN PARK ROAD	LT	NO. 18 (BOSTON POND)			WOOD SIGN										1
17+75	MAIN PARK ROAD	LT	NO. 18 (BOSTON POND)			PARKING 18	18 X 12			1	13					
17+75	MAIN PARK ROAD	LT	NO. 18 (BOSTON POND)			NOTICE HUNTERS...*	18 X 18									
17+80	MAIN PARK ROAD	LT		S22		BOSTON POND							1		1	
21+05	MAIN PARK ROAD	LT			R2-1	SPEED LIMIT 15 MPH	24 X 30	5.00	1		14					
24+30	MAIN PARK ROAD	RT			R1-1	STOP	30 X 30	6.25	1		14					
25+45	MAIN PARK ROAD	LT		D3		DIRECTIONAL SIGN								1	1	
25+45	MAIN PARK ROAD	LT			R1-1	STOP	30 X 30	6.25	1		14					
26+60	MAIN PARK ROAD	RT			R2-1	SPEED LIMIT 25 MPH	24 X 30	5.00	1		14					
34+00	MAIN PARK ROAD	RT		D5		DIRECTIONAL SIGN								1	1	
36+40	MAIN PARK ROAD	RT	NO. 14			PARKING 14	18 X 12			1	14					
36+40	MAIN PARK ROAD	RT	NO. 14			NOTICE HUNTERS...*	18 X 18									
36+40	MAIN PARK ROAD	RT	NO. 14			WILDLIFE RESTORATION...*	6 X 9									
37+80	MAIN PARK ROAD	LT		D6		DIRECTIONAL SIGN								1	1	
41+50	MAIN PARK ROAD	LT			R2-1	SPEED LIMIT 25 MPH	24 X 30	5.00			14					
41+50	MAIN PARK ROAD	RT			R2-1	SPEED LIMIT 25 MPH	24 X 30	5.00			14					
42+45	MAIN PARK ROAD	RT				SPEED LIMIT 25 MPH	24 X 30		1							
42+45	MAIN PARK ROAD	LT				SPEED LIMIT 25 MPH	24 X 30		1							
44+00	MAIN PARK ROAD	RT	NO. 13			PARKING 13	18 X 12			1	14					
44+00	MAIN PARK ROAD	RT	NO. 13			NOTICE HUNTERS...*	18 X 18									
44+00	MAIN PARK ROAD	RT	NO. 13			WILDLIFE RESTORATION...*	6 X 9									
53+20	MAIN PARK ROAD	LT		S3		CIRCLE DRIVE PICNIC AREA							1		1	
56+50	MAIN PARK ROAD	RT			W1-5	CURVE AHEAD	30 X 30	6.25	1		14					
57+10	MAIN PARK ROAD	RT	NO. 12			WOOD SIGN										1
65+75	MAIN PARK ROAD	RT	NO. 11 (HENNEMAN TRAIL)			PARKING 11	18 X 12			1	14					
65+75	MAIN PARK ROAD	RT	NO. 11 (HENNEMAN TRAIL)			NOTICE HUNTERS...*	18 X 18									
65+75	MAIN PARK ROAD	RT	NO. 11 (HENNEMAN TRAIL)			WILDLIFE RESTORATION...*	6 X 9									
65+90	MAIN PARK ROAD	RT	NO. 11 (HENNEMAN TRAIL)			WOOD SIGN										1
66+15	MAIN PARK ROAD	RT		S4		HENNEMAN TRAIL							1		1	
81+00	MAIN PARK ROAD	LT	PERSIMMON PICNIC AREA			ATTENTION ANGLERS...*	18 X 24			1	12					
81+70	MAIN PARK ROAD	LT		S5		PERSIMMON PICNIC AREA							1		1	
89+00	MAIN PARK ROAD	LT			R2-1	SPEED LIMIT 25 MPH	24 X 30	5.00	1		14					
89+00	MAIN PARK ROAD	RT			R2-1	SPEED LIMIT 25 MPH	24 X 30	5.00	1		14					
100+00	MAIN PARK ROAD	RT		D7		DIRECTIONAL SIGN								1	1	
102+30	MAIN PARK ROAD	LT		S7		SASSAFRAS PICNIC AREA							1		1	
104+00	MAIN PARK ROAD	LT		D8		DIRECTIONAL SIGN								1	1	
106+85	MAIN PARK ROAD	RT	NO. 9		R5-11	AUTHORIZED VEHICLES ONLY	30 X 24	5.00	1		12					
106+95	MAIN PARK ROAD	RT	NO. 9			WOOD SIGN										1
115+65	MAIN PARK ROAD	RT	NO. 8 (MARLOW POND)			WOOD SIGN										1
115+80	MAIN PARK ROAD	RT	NO. 8 (MARLOW POND)			WOOD SIGN										1
115+80	MAIN PARK ROAD	RT		S8		MARLOW POND							1		1	
118+10	MAIN PARK ROAD	LT		S9		BLACK OAK PICNIC AREA							1		1	
120+25	MAIN PARK ROAD	LT			R2-1	SPEED LIMIT 25 MPH	24 X 30	5.00	1		14					
120+25	MAIN PARK ROAD	RT			R2-1	SPEED LIMIT 25 MPH	24 X 30	5.00	1		14					
136+25	MAIN PARK ROAD	LT			R2-1	SPEED LIMIT 25 MPH	24 X 30	5.00	1		14					
136+25	MAIN PARK ROAD	RT			R2-1	SPEED LIMIT 25 MPH	24 X 30	5.00	1		14					
146+15	MAIN PARK ROAD	RT		S10		CATTAIL TRAIL							1		1	
145+70	MAIN PARK ROAD	RT	NO. 6 (CATTAIL TRAIL)			WOOD SIGN										1
145+80	MAIN PARK ROAD	RT	NO. 6 (CATTAIL TRAIL)			PARKING 6	18 X 12			1	14					
145+80	MAIN PARK ROAD	RT	NO. 6 (CATTAIL TRAIL)			NOTICE HUNTERS...*	18 X 18									
145+80	MAIN PARK ROAD	RT	NO. 6 (CATTAIL TRAIL)			WILDLIFE RESTORATION...*	6 X 9									
156+95	MAIN PARK ROAD	LT	LOOKOUT POINT PICNIC AREA			ATTENTION ANGLERS...*	18 X 24			1	12					
157+20	MAIN PARK ROAD	LT		S11		LOOKOUT POINT PICNIC AREA							1		1	
160+00	MAIN PARK ROAD	RT			R8-3A	NO PARKING	24 X 30	5.00	1		14					
161+00	MAIN PARK ROAD	RT			R2-1	SPEED LIMIT 25 MPH	24 X 30	5.00			14					
161+70	MAIN PARK ROAD	RT				SPEED LIMIT 25 MPH	24 X 30		1							
170+80	MAIN PARK ROAD	LT				SPEED LIMIT 25 MPH	24 X 30		1							

SIGN SCHEDULE CONT.

LOCATION				SIGN DESIGNATION	MUTCD SIGN NO.	SIGN DESCRIPTION	SIGN DIMENSIONS (IN. X IN.)	SIGN PANEL - TYPE 1 (SQ FT)	REMOVE SIGN PANEL ASSEMBLY - TYPE A (EACH)	RELOCATE SIGN PANEL ASSEMBLY - TYPE A (EACH)	WOOD SIGN SUPPORT (FOOT)	LARGE ENTRANCE SIGN (EACH)	SMALL ENTRANCE SIGN (EACH)	MINOR SIGN COMPLETE (EACH)	SIGN REMOVAL (EACH)	REMOVE AND RE-ERECT EXISTING SIGN (EACH)
STATION	ROADWAY	SIDE	PARKING LOT													
171+10	MAIN PARK ROAD	LT			R2-1	SPEED LIMIT 25 MPH	24 X 30	5.00			14					
172+10	MAIN PARK ROAD	LT			R8-3A	NO PARKING	24 X 30	5.00	1		14					
174+05	MAIN PARK ROAD	LT	LAKEVIEW BOAT ACCESS (1)		R7-5	10 MIN PARKING	12 X 18	1.50	1		12					
174+50	MAIN PARK ROAD	LT	LAKEVIEW BOAT ACCESS (1)		R7-5	10 MIN PARKING	12 X 18	1.50	1		12					
175+60	MAIN PARK ROAD	LT	LAKEVIEW BOAT ACCESS (1)		R7-1	NO PARKING ANYTIME	12 X 18	1.50	1		12					
175+80	MAIN PARK ROAD	LT	LAKEVIEW BOAT ACCESS (1)		R7-1	NO PARKING ANYTIME	12 X 18	1.50	1		12					
176+00	MAIN PARK ROAD	LT	LAKEVIEW BOAT ACCESS (1)		R7-1	NO PARKING ANYTIME	12 X 18	1.50	1		12					
177+20	MAIN PARK ROAD	LT		S12		LAKEVIEW BOAT ACCESS							1		1	
178+00	MAIN PARK ROAD	LT	LAKEVIEW BOAT ACCESS (2)		R7-8	RESERVED PARKING	12 X 18	1.50	1		13					
178+00	MAIN PARK ROAD	LT	LAKEVIEW BOAT ACCESS (2)		R7-I101P	$250 FINE	12 X 6	0.50	1							
178+00	MAIN PARK ROAD	LT	LAKEVIEW BOAT ACCESS (2)		R7-8P	VAN ACCESSIBLE	18 X 9	1.13	1							
178+25	MAIN PARK ROAD	LT	LAKEVIEW BOAT ACCESS (2)		R7-8	RESERVED PARKING	12 X 18	1.50	1		13					
178+25	MAIN PARK ROAD	LT	LAKEVIEW BOAT ACCESS (2)		R7-I101P	$250 FINE	12 X 6	0.50	1							
178+25	MAIN PARK ROAD	LT	LAKEVIEW BOAT ACCESS (2)		R7-8P	VAN ACCESSIBLE	18 X 9	1.13	1							
178+70	MAIN PARK ROAD	LT	LAKEVIEW BOAT ACCESS (2)		D9-6	HANDICAPPED	24 X 24	4.00	1		14					
178+70	MAIN PARK ROAD	LT	LAKEVIEW BOAT ACCESS (2)		M6-1L	LEFT ARROW	21 X 15	2.19	1							
181+50	MAIN PARK ROAD	RT	LAKEVIEW BOAT ACCESS (2)		R7-8	RESERVED PARKING	12 X 18	1.50	1		13					
181+50	MAIN PARK ROAD	RT	LAKEVIEW BOAT ACCESS (2)		R7-I101P	$250 FINE	12 X 6	0.50	1							
181+50	MAIN PARK ROAD	RT	LAKEVIEW BOAT ACCESS (2)		R7-8P	VAN ACCESSIBLE	18 X 9	1.13	1							
187+00	MAIN PARK ROAD	LT			R2-1	SPEED LIMIT 25 MPH	24 X 30	5.00	1		14					
188+00	MAIN PARK ROAD	RT		D9		DIRECTIONAL SIGN								1	1	
189+20	MAIN PARK ROAD	LT		D10		DIRECTIONAL SIGN								1	1	
193+30	MAIN PARK ROAD	RT			R2-1	SPEED LIMIT 25 MPH	24 X 30	5.00	1		14					
206+60	MAIN PARK ROAD	RT		D12		DIRECTIONAL SIGN								1	1	
210+60	MAIN PARK ROAD	RT		D13		DIRECTIONAL SIGN								1	1	
211+50	MAIN PARK ROAD	LT			R2-1	SPEED LIMIT 25 MPH	24 X 30	5.00	1		14					
211+50	MAIN PARK ROAD	RT			R2-1	SPEED LIMIT 15 MPH	24 X 30	5.00	1		14					
218+00	MAIN PARK ROAD	LT	NO. 4			PARKING 4	18 X 12			1	14					
218+00	MAIN PARK ROAD	LT	NO. 4			NOTICE HUNTERS...*	18 X 18									
218+00	MAIN PARK ROAD	LT	NO. 4			WILDLIFE RESTORATION...*	6 X 9									
218+55	MAIN PARK ROAD	LT	NO. 4			BLANK SIGN PANEL	12 X 18		1							
220+00	MAIN PARK ROAD	RT			R8-3a	NO PARKING	24 X 30	5.00	1		14					
220+40	MAIN PARK ROAD	LT			R2-1	SPEED LIMIT 15 MPH	24 X 30	5.00			14					
221+00	MAIN PARK ROAD	RT		S13		ROCKY POINT BEACH							1		1	
221+85	MAIN PARK ROAD	RT	ROCKY POINT BEACH		R8-3a	NO PARKING	24 X 30	5.00	1		13					
	MAIN PARK ROAD	RT	ROCKY POINT BEACH		R7-8	RESERVED PARKING	12 X 18	1.50	1		13					
	MAIN PARK ROAD	RT	ROCKY POINT BEACH		R7-I101P	$250 FINE	12 X 6	0.50	1							
	MAIN PARK ROAD	RT	ROCKY POINT BEACH		R7-8P	VAN ACCESSIBLE	18 X 9	1.13								
	MAIN PARK ROAD	LT	ROCKY POINT BEACH		R7-8	RESERVED PARKING	12 X 18	1.50	1		13					
	MAIN PARK ROAD	LT	ROCKY POINT BEACH		R7-I101P	$250 FINE	12 X 6	0.50	1							
	MAIN PARK ROAD	LT	ROCKY POINT BEACH		R7-8P	VAN ACCESSIBLE	18 X 9	1.13								
	MAIN PARK ROAD	RT	ROCKY POINT BEACH		R8-3a	NO PARKING	24 X 30	5.00	1		13					
	MAIN PARK ROAD		ROCKY POINT BEACH			ALCOHOL PROHIBITED...*	24 X 18			1	12					
	MAIN PARK ROAD		ROCKY POINT BEACH			ALCOHOL PROHIBITED...*	24 X 18			1	12					
	MAIN PARK ROAD	LT	ROCKY POINT BEACH			SPEED LIMIT 15 MPH	24 X 30		1							
0+40	N MAIN PARK ROAD	LT			R1-1	STOP	30 X 30	6.25	1		14					
0+60	N MAIN PARK ROAD	LT				ENTRANCE SIGN						1			1	
1+30	N MAIN PARK ROAD	RT	SITE OFFICE BUS & RV			BUS & RV PARKING ONLY*	18 X 12			1	11					
2+00	N MAIN PARK ROAD	RT		S1		PARK OFFICE							1		1	
2+30	N MAIN PARK ROAD	RT	SITE OFFICE A		R7-8	RESERVED PARKING	12 X 18	1.50	1		13					
2+30	N MAIN PARK ROAD	RT	SITE OFFICE A		R7-I101P	$250 FINE	12 X 6	0.50	1							
2+30	N MAIN PARK ROAD	RT	SITE OFFICE A		R7-8P	VAN ACCESSIBLE	18 X 9	1.13								
3+75	N MAIN PARK ROAD	RT		D1		CAUTION SIGN								1	1	
4+75	N MAIN PARK ROAD	RT		D2		DIRECTIONAL SIGN								1	1	
4+75	N MAIN PARK ROAD	RT			R1-1	STOP	30 X 30	6.25	1		14					
5+50	N MAIN PARK ROAD	LT		D4		DIRECTIONAL SIGN								1	1	
5+50	N MAIN PARK ROAD	LT			R1-1	STOP	30 X 30	6.25	1		14					
6+70	N MAIN PARK ROAD	RT			R2-1	SPEED LIMIT 25 MPH	24 X 30	5.00			14					
33+00	N MAIN PARK ROAD	RT			R2-1	SPEED LIMIT 25 MPH	24 X 30	5.00	1		14					
33+00	N MAIN PARK ROAD	LT			R2-1	SPEED LIMIT 25 MPH	24 X 30	5.00	1		14					

SIGN SCHEDULE CONT.

STATION	ROADWAY	SIDE	PARKING LOT	SIGN DESIGNATION	MUTCD SIGN NO.	SIGN DESCRIPTION	SIGN DIMENSIONS (IN. X IN.)	SIGN PANEL - TYPE 1 (SQ FT)	REMOVE SIGN PANEL ASSEMBLY - TYPE A (EACH)	RELOCATE SIGN PANEL ASSEMBLY - TYPE A (EACH)	WOOD SIGN SUPPORT (FOOT)	LARGE ENTRANCE SIGN (EACH)	SMALL ENTRANCE SIGN (EACH)	MINOR SIGN COMPLETE (EACH)	SIGN REMOVAL (EACH)	REMOVE AND RE-ERECT EXISTING SIGN (EACH)
42+40	N MAIN PARK ROAD	RT		D14		DIRECTIONAL SIGN								1	1	
43+60	N MAIN PARK ROAD	LT		D15		DIRECTIONAL SIGN								1	1	
51+00	N MAIN PARK ROAD	LT				CAMPGROUND	24 X 30		2							
51+00	N MAIN PARK ROAD	RT			D9-3	CAMPING	24 X 24	4.00			17					
51+00	N MAIN PARK ROAD	RT			D9-3a	TRAILER CAMPING	24 X 24	4.00								
51+00	N MAIN PARK ROAD	RT			M6-3	FORWARD ARROW	21 X 15	2.19								
55+70	N MAIN PARK ROAD	LT	WASTE STATION		R1-1	STOP	30 X 30	6.25	1		13					
56+25	N MAIN PARK ROAD	LT	WASTE STATION		R5-1	DO NOT ENTER	30 X 30	6.25	1		13					
58+65	N MAIN PARK ROAD	RT			R2-1	SPEED LIMIT 15 MPH	24 X 30	5.00	1		14					
58+65	N MAIN PARK ROAD	LT			R2-1	SPEED LIMIT 25 MPH	24 X 30	5.00	1		14					
58+65	N MAIN PARK ROAD	LT	WASTE STATION			TRAILER SANITARY STATION*	12 X 12			1	11					
66+35	N MAIN PARK ROAD	LT	FISH CLEANING STATION		R7-8	RESERVED PARKING	12 X 18	1.50	1		13					
66+35	N MAIN PARK ROAD	LT	FISH CLEANING STATION		R7-I101P	$250 FINE	12 X 6	0.50	1							
66+35	N MAIN PARK ROAD	LT	FISH CLEANING STATION		R7-8P	VAN ACCESSIBLE	18 X 9	1.13	1							
71+15	N MAIN PARK ROAD	RT			W3-1	STOP SIGN AHEAD	30 X 30	6.25	1		14					
73+00	N MAIN PARK ROAD	LT			R2-1	SPEED LIMIT 15 MPH	24 X 30	5.00	1		14					
73+15	N MAIN PARK ROAD	RT			R1-1	STOP	30 X 30	6.25	1		14					
74+00	N MAIN PARK ROAD	RT		S17		OAK RIDGE CAMPGROUND							1		1	
74+15	N MAIN PARK ROAD	LT		S19		CAMPSITES 53-91							1		1	
74+65	N MAIN PARK ROAD	RT			R2-1	SPEED LIMIT 15 MPH	24 X 30	5.00	1		14					
79+10	N MAIN PARK ROAD	RT	OAK RIDGE CAMPGROUND (2)		R7-8	RESERVED PARKING	12 X 18	1.50	1		13					
79+10	N MAIN PARK ROAD	RT	OAK RIDGE CAMPGROUND (2)		R7-I101P	$250 FINE	12 X 6	0.50	1							
79+10	N MAIN PARK ROAD	RT	OAK RIDGE CAMPGROUND (2)		R7-8P	VAN ACCESSIBLE	18 X 9	1.13	1							
79+20	N MAIN PARK ROAD	RT	OAK RIDGE CAMPGROUND (2)			PLAYGROUND RULES*	18 X 24			1	12					
79+90	N MAIN PARK ROAD	LT		S20		CAMPSITES 92-117							1		1	
98+90	N MAIN PARK ROAD	LT		S21		TENT CAMPGROUND							1		1	
99+60	N MAIN PARK ROAD	RT	TENT CAMPGROUND (2)			ATTENTION ANGLERS...*	18 X 24			1	12					
0+20	MARINA ROAD	LT		S2		MARINA RESTAURANT							1		1	
0+20	MARINA ROAD	LT			R1-2	YIELD	36 X 36	4.00			15					
0+30	MARINA ROAD	LT			R1-2	YIELD	36 X 36	4.00			15					
0+35	MARINA ROAD	LT				YIELD	36 X 36		1							
5+50	MARINA ROAD	LT	MARINA RESTAURANT		M6-1R	RIGHT ARROW	21 X 15	2.19	1		12					
	MARINA ROAD		MARINA RESTAURANT		R7-8	RESERVED PARKING	12 X 18	1.50	1		13					
	MARINA ROAD		MARINA RESTAURANT		R7-I101P	$250 FINE	12 X 6	0.50	1							
	MARINA ROAD		MARINA RESTAURANT		R7-8P	VAN ACCESSIBLE	18 X 9	1.13	1							
0+45	CIRCLE DRIVE	LT			R6-2R	ONE WAY	24 X 30	5.00	1		14					
6+55	CIRCLE DRIVE	RT	CIRCLE DRIVE PICNIC AREA (1)		R7-8	RESERVED PARKING	12 X 18	1.50			13					
6+55	CIRCLE DRIVE	RT	CIRCLE DRIVE PICNIC AREA (1)		R7-I101P	$250 FINE	12 X 6	0.50								
6+55	CIRCLE DRIVE	RT	CIRCLE DRIVE PICNIC AREA (1)		R7-8P	VAN ACCESSIBLE	18 X 9	1.13								
16+10	CIRCLE DRIVE	RT			R1-1	STOP	30 X 30	6.25			14					
0+15	WHIPPOORWILL	RT			R1-1	STOP	30 X 30	6.25			14					
0+25	WHIPPOORWILL	LT		S6		WHIPPOORWILL YOUTH AREA							1		1	
0+30	WHIPPOORWILL	LT			R1-1	STOP	30 X 30	6.25			14					
8+35	WHIPPOORWILL	LT	WHIPPOORWILL YOUTH AREA (3)		R7-8	RESERVED PARKING	12 X 18	1.50	1		13					
8+35	WHIPPOORWILL	LT	WHIPPOORWILL YOUTH AREA (3)		R7-I101P	$250 FINE	12 X 6	0.50	1							
8+35	WHIPPOORWILL	LT	WHIPPOORWILL YOUTH AREA (3)		R7-8P	VAN ACCESSIBLE	18 X 9	1.13								
	WHIPPOORWILL		WHIPPOORWILL YOUTH AREA (3)			ATTENTION ANGLERS...*	18 X 24			1	12					
0+30	N WHIPPOORWILL	LT			R1-2	YIELD	36 X 36	4.00			15					
	N WHIPPOORWILL		WHIPPOORWILL YOUTH AREA (1)			ATTENTION ANGLERS...*	18 X 24			1	12					
0+30	SASSAFRAS	LT			R1-1	STOP	30 X 30	6.25			14					
2+80	SASSAFRAS	LT	SASSAFRAS PICNIC AREA (1)		R7-8	RESERVED PARKING	12 X 18	1.50			13					
2+80	SASSAFRAS	LT	SASSAFRAS PICNIC AREA (1)		R7-I101P	$250 FINE	12 X 6	0.50								
2+80	SASSAFRAS	LT	SASSAFRAS PICNIC AREA (1)		R7-8P	VAN ACCESSIBLE	18 X 9	1.13								
7+60	SASSAFRAS	LT	SASSAFRAS PICNIC AREA (2)			ATTENTION ANGLERS...*	18 X 24			1	12					
0+25	BLACK OAK	LT			R1-1	STOP	30 X 30	6.25			14					
8+50	BLACK OAK	RT	BLACK OAK PICNIC AREA (2)		RS-061	NO SWIMMING	18 X 18	2.25	1		12					
8+55	BLACK OAK	RT	BLACK OAK PICNIC AREA (2)			ATTENTION ANGLERS...*	18 X 24			1	12					
0+30	EAST PARK ENTRANCE	LT		D11		CAUTION SIGN								1	1	
0+30	EAST PARK ENTRANCE	LT			R1-2	YIELD	36 X 36	4.00			15					
0+50	EAST PARK ENTRANCE	LT				YIELD	36 X 36		1							

SIGN SCHEDULE CONT.

LOCATION								SIGN PANEL - TYPE 1	REMOVE SIGN PANEL ASSEMBLY - TYPE A	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	WOOD SIGN SUPPORT	LARGE ENTRANCE SIGN	SMALL ENTRANCE SIGN	MINOR SIGN COMPLETE	SIGN REMOVAL	REMOVE AND RE-ERECT EXISTING SIGN
STATION	ROADWAY	SIDE	PARKING LOT	SIGN DESIGNATION	MUTCD SIGN NO.	SIGN DESCRIPTION	SIGN DIMENSIONS (IN. X IN.)	(SQ FT)	(EACH)	(EACH)	(FOOT)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)
1+10	EAST PARK ENTRANCE	LT				ENTRANCE SIGN						1			1	
1+15	EAST PARK ENTRANCE	RT			R1-1	STOP	30 X 30	6.25	1		14					
0+55	STAGECOACH	LT			R1-1	STOP	30 X 30	6.25	1		14					
6+30	STAGECOACH	RT			R2-1	SPEED LIMIT 25 MPH	24 X 30	5.00	1		14					
38+50	STAGECOACH	LT			R2-1	SPEED LIMIT 25 MPH	24 X 30	5.00	1		14					
38+50	STAGECOACH	RT			R2-1	SPEED LIMIT 15 MPH	24 X 30	5.00	1		14					
38+80	STAGECOACH	RT		S15		PHILLIPS CREEK TRAIL							1		1	
45+00	STAGECOACH	RT		S15		PHILLIPS CREEK TRAIL							1		1	
48+50	STAGECOACH	RT		S16		STAGECOACH PICNIC AREA							1		1	
49+50	STAGECOACH	LT			R2-1	SPEED LIMIT 15 MPH	24 X 30	5.00	1		14					
49+90	STAGECOACH	RT	STAGECOACH PICNIC AREA		R6-2R	ONE WAY	24 X 30	5.00	1		13					
	STAGECOACH	RT	STAGECOACH PICNIC AREA		R7-8	RESERVED PARKING	12 X 18	1.50	1		13					
	STAGECOACH	RT	STAGECOACH PICNIC AREA		R7-I101P	$250 FINE	12 X 6	0.50	1							
	STAGECOACH	RT	STAGECOACH PICNIC AREA		R7-8P	VAN ACCESSIBLE	18 X 9	1.13								
	STAGECOACH		STAGECOACH PICNIC AREA			ATTENTION ANGLERS...*	18 X 24			1	12					
0+50	WHITE OAK	LT			R1-1	STOP	30 X 30	6.25			14					
	WHITE OAK	RT	WHITE OAK PICNIC AREA		R6-2L	ONE WAY	24 X 30	5.00			13					
	WHITE OAK	LT	WHITE OAK PICNIC AREA		R5-1	DO NOT ENTER	30 X 30	6.25			13					
	WHITE OAK	LT		S14		WHITE OAK PICNIC AREA							1		1	
0+30	NW PARK ROAD	LT			R1-1	STOP	30 X 30	6.25			14					
4+50	NW PARK ROAD	RT	NO. 16			NOTICE HUNTERS...*	18 X 18			1	14					
4+50	NW PARK ROAD	RT	NO. 16			PARKING 16	18 X 12									
4+50	NW PARK ROAD	RT	NO. 16			WILDLIFE RESTORATION...*	6 X 9									
20+40	NW PARK ROAD	RT			R5-11	AUTHORIZED VEHICLES ONLY	30 X 24	5.00	1		14					
0+55	OAK ROAD A	RT		S18		CAMPSITES 1-52							1		1	
3+60	OAK ROAD B	LT			R7-8	RESERVED PARKING	12 X 18	1.50	1		13					
0+20	EQUESTRIAN LOOP A	LT			R1-1	STOP	30 X 30	6.25			14					
			EQUESTRIAN CAMPGROUND		R1-1	STOP	30 X 30	6.25			14					
							SUBTOTAL	431.44	92	20	1481	2	23	15	40	7
							PAY TOTAL	432	92	20	1481	2	23	15	40	7

* NOT A TOTAL QUANTITY

MODEL: $MODELNAME$
FILE NAME: pw:\\projectwise.volkert.com:volkert-us-pw\Documents\Projects\1150903 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\522007-SHt-Schedules.dgn

VOLKERT

USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.1667 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

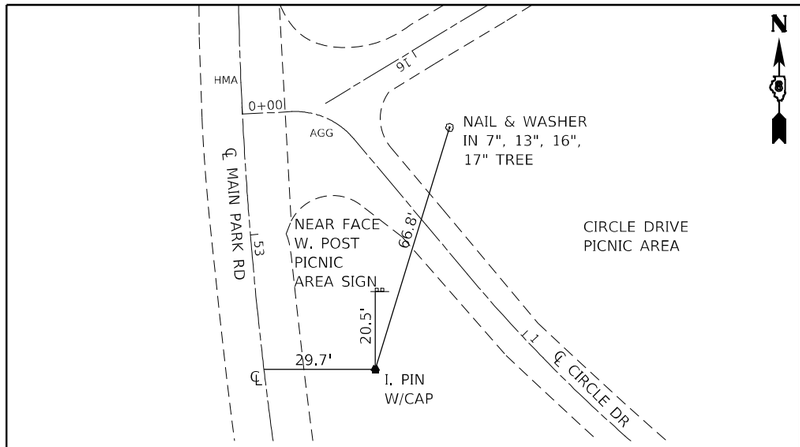
SCHEDULE OF QUANTITIES
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: | SHEET 13 OF 13 SHEETS | STA. | TO STA.

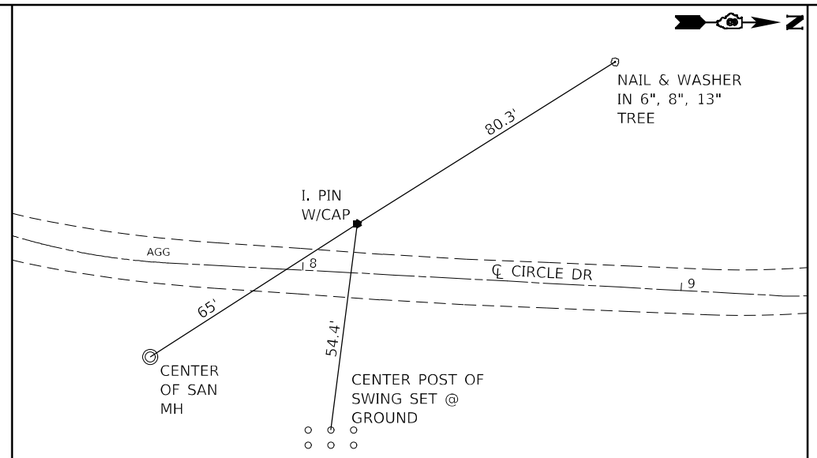
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	27

CONTRACT NO. 46933

ILLINOIS | FED. AID PROJECT



CONTROL POINT LIN 2



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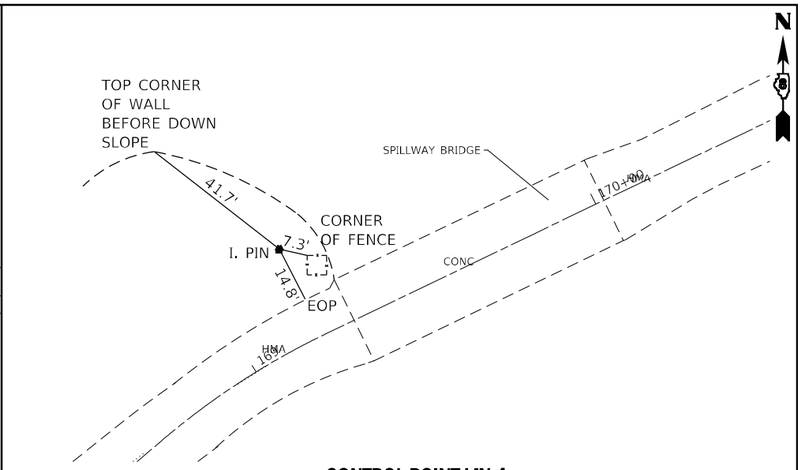

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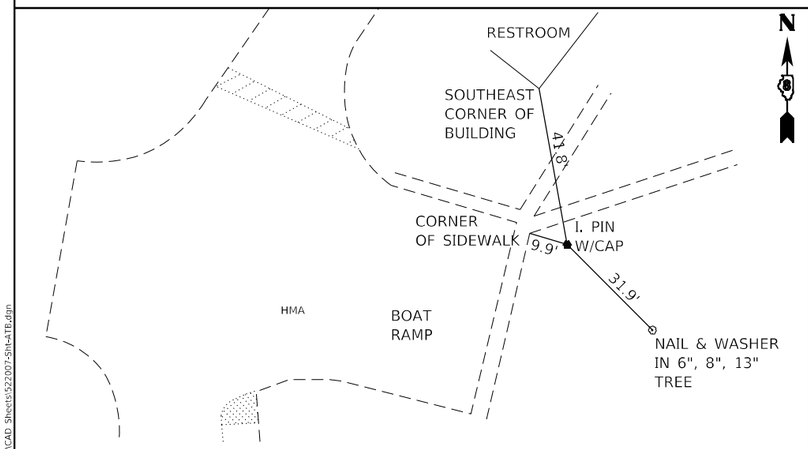
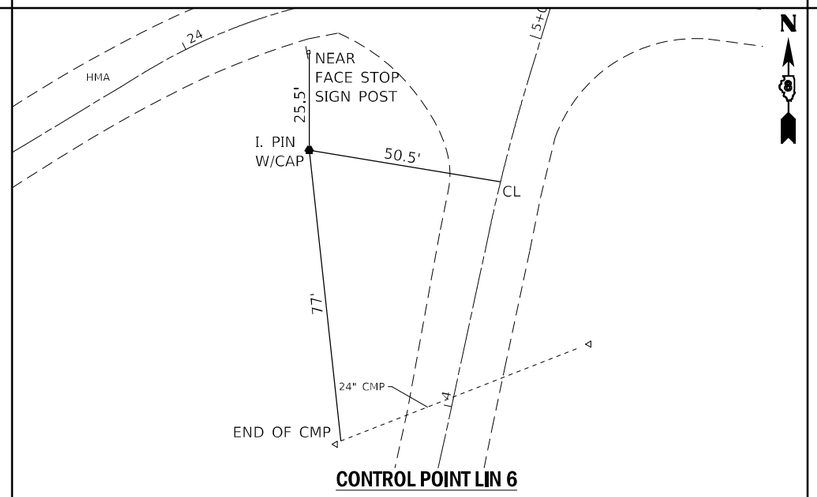
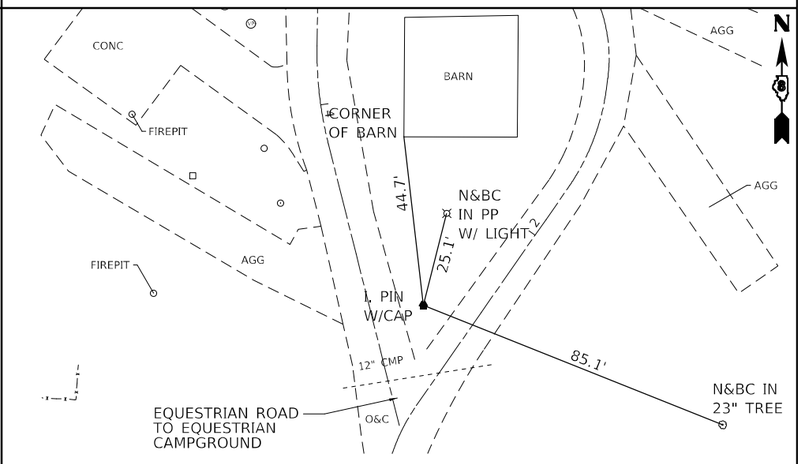


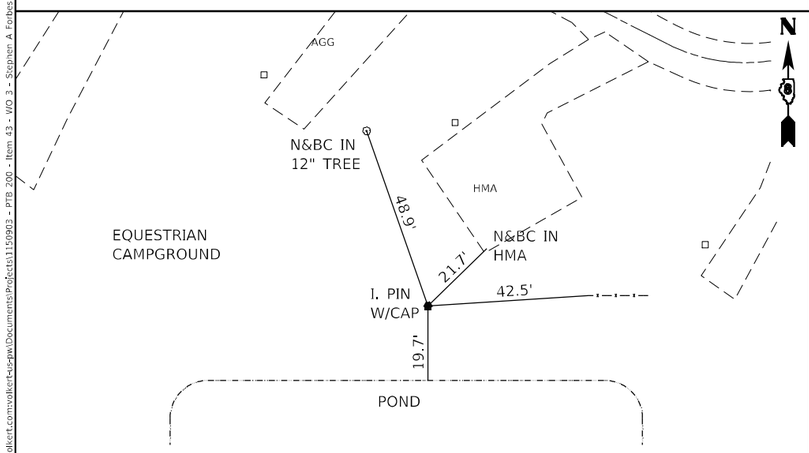
CONTROL POINT LIN 5



CONTROL POINT LIN 6



CONTROL POINT LIN 7



CONTROL POINT LIN 8

CONTROL POINTS				
CONTROL POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
LIN 2	748,486.42	858,540.84	554.86	1/2" REBAR WITH RED CAP
LIN 3	748,506.56	859,130.06	552.79	1/2" REBAR WITH RED CAP
LIN 4	745,410.99	866,211.78	521.98	FOUND EXISTING 5/8" REBAR
LIN 5	745,768.43	866,762.06	523.28	1/2" REBAR WITH RED CAP
LIN 6	750,437.69	856,925.12	561.91	1/2" REBAR WITH RED CAP
LIN 7	742,508.84	862,117.51	539.38	REBAR WITH CAP
LIN 8	742,717.87	862,331.46	537.58	REBAR WITH CAP
L7761	742,704.97	861,982.27	542.61	60 D NAIL

BENCHMARKS				
BM #	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM L1	745,434.00*	866,290.00*	523.19	SET CHISELED "□" ON CONCRETE CURB OF SPILLWAY BRIDGE N.W. CORNER
BM L6	750,252.00*	856,976.00*	561.89	SET CHISELED "□" ON WEST SIDE OF LP FOUNDATION NEXT TO SITE MAP SIGN IN FRONT OF SITE OFFICE
BM 10	742,678.87	862,037.01	544.48	SET CHISELED "□" ON BATHROOM CONCRETE SIDEWALK NEXT TO WOMENS STALL

*VALUES ARE APPROXIMATE

VOLKERT

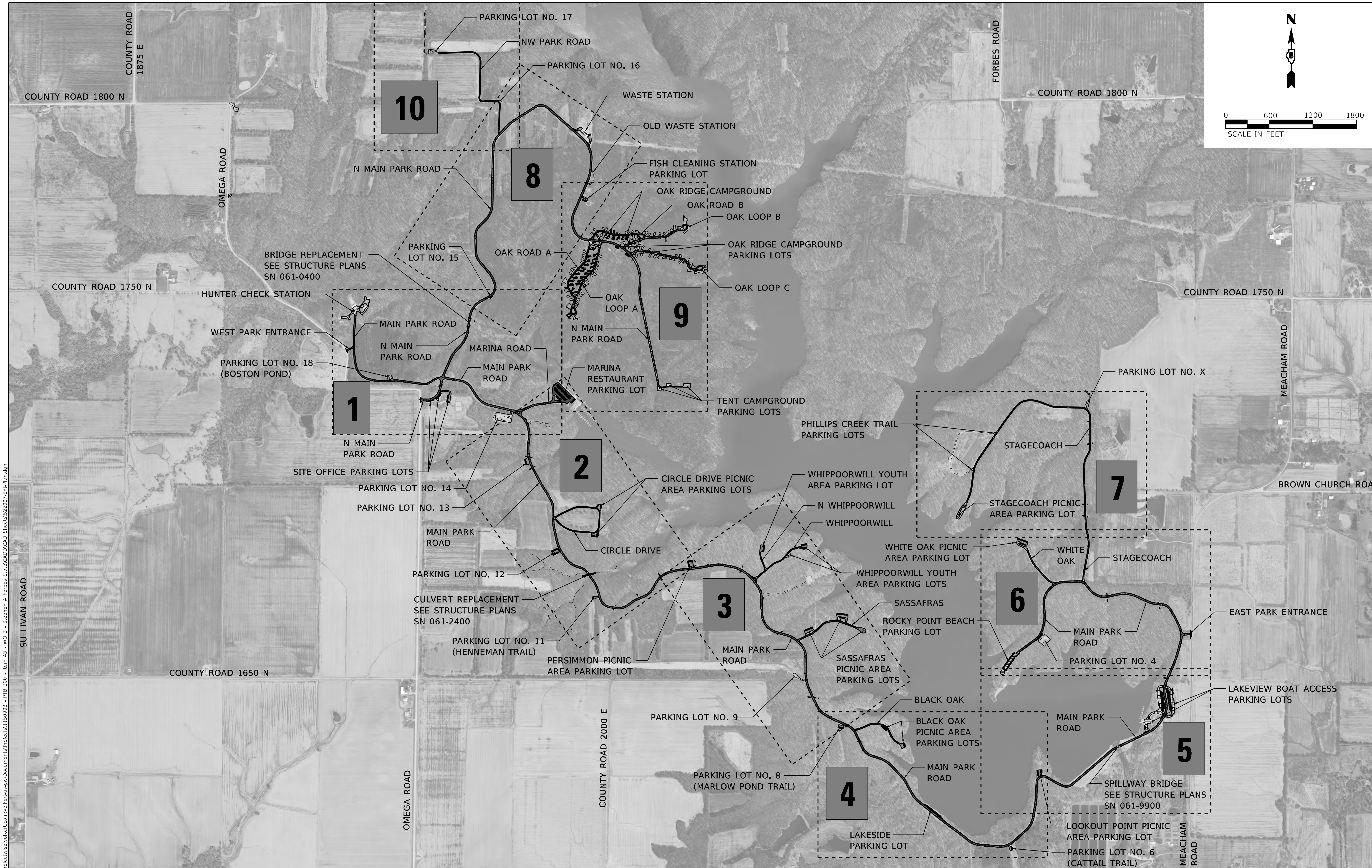
USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TIE POINTS AND BENCHMARKS
STEPHEN A. FORBES STATE RECREATION AREA

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	28
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			



VOLKERT	USER NAME = default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERVIEW PLAN STEPHEN A. FORBES STATE RECREATION AREA
		DRAWN	REVISED -		
	PLOT SCALE = 1200 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 10/24/2023	DATE -	REVISED -		SCALE: 1"=600' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	29
		CONTRACT NO. 46933		
		ILLINOIS FED. AID PROJECT		

HUNTER CHECK STATION
SEE PARKING LOT
DETAILS SHEET 1 OF 18

STA 4+88

80' R

50' SURFACE TRANSITION D

18'

MAIN PARK ROAD

STA 9+39.90 (MAIN PARK ROAD) =
STA 0+00.00 (WEST PARK ENTRANCE)

80' SURFACE TRANSITION B

14.5'

0+00

SURFACE TRANSITION C

EXISTING 15" CMP
PIPE CULVERT TO
REMAIN

WEST PARK
ENTRANCE

STA 16+39 (MAIN PARK ROAD)
PIPE CULVERT TO BE REMOVED (12" CMP)
PROPOSED PIPE CULVERTS, CLASS A, TYPE 1, 12"
WITH PRECAST REINFORCED CONCRETE FLARED
END SECTIONS 12"
USFL 558.87 (MATCH EXISTING)
DSFL 557.92 (MATCH EXISTING)

PARKING LOT NO. 18 (BOSTON POND)
SEE PARKING LOT DETAILS SHEET 5 OF 18

EXISTING 12" CMP PIPE
CULVERT TO REMAIN

15+00

20+00

STA 16+37 (MAIN PARK ROAD)
PIPE CULVERT TO BE REMOVED (15" CMP)
PROPOSED PIPE CULVERTS, CLASS A, TYPE 1, 15"
WITH PRECAST REINFORCED CONCRETE FLARED
END SECTIONS 15"
USFL 558.42 (MATCH EXISTING)
DSFL 557.92 (MATCH EXISTING)

OMEGA ROAD

STA 19+32 (MAIN PARK ROAD)
PIPE CULVERT TO BE REMOVED (15" CMP)
PROPOSED PIPE CULVERTS, CLASS A, TYPE 2, 15"
WITH PRECAST REINFORCED CONCRETE FLARED
END SECTIONS 15"
USFL 556.78 (MATCH EXISTING)
DSFL 555.40 (MATCH EXISTING)

80' SURFACE
TRANSITION A

BEGIN IMPROVEMENTS
STA 0+14

10+00

N MAIN PARK ROAD

SITE OFFICE BUS & RV PARKING LOT
SEE PARKING LOT DETAILS SHEET 2 OF 18

SITE OFFICE PARKING LOT A
SEE PARKING LOT
DETAILS SHEET 2 OF 18

MATCH LINE STA 17+00

STA 14+47.58 TO STA 14+58.00
PAVEMENT REMOVAL
PROPOSED PAVEMENT CONNECTOR (HMA)
FOR BRIDGE APPROACH SLAB

STA 12+97.42 TO STA 14+47.58
SEE STRUCTURE PLANS - SN 061-0400

STA 12+87.42 TO STA 12+97.42
PAVEMENT REMOVAL
PROPOSED PAVEMENT CONNECTOR (HMA)
FOR BRIDGE APPROACH SLAB

N MAIN PARK ROAD

22'

80' R

15+00

22'

STA 25+00.00 (MAIN PARK ROAD) =
STA 5+12.95 (N MAIN PARK ROAD)

EXISTING 24" CMP PIPE
CULVERT TO REMAIN

5+00

25+00

21'

MAIN PARK ROAD

EXISTING 15" CMP PIPE
CULVERT TO REMAIN

STA 4+03 (N MAIN PARK ROAD)
PIPE CULVERT TO BE REMOVED (24" CMP)
PROPOSED PIPE CULVERTS, CLASS A, TYPE 2, 24"
WITH PRECAST REINFORCED CONCRETE FLARED
END SECTIONS 24"
USFL 557.36 (MATCH EXISTING)
DSFL 555.10 (MATCH EXISTING)

SITE OFFICE PARKING LOT B
SEE PARKING LOT
DETAILS SHEET 2 OF 18

STA 36+04 (MAIN PARK ROAD)
PIPE CULVERT TO BE REMOVED (12" CMP)
PROPOSED PIPE CULVERT, CLASS A,
TYPE 1, 12" WITH PRECAST REINFORCED
CONCRETE FLARED END SECTIONS 12"
USFL 556.22
DSFL 555.58

30+00

35+00

MARINA ROAD

20'

MATCH LINE
STA 2+00

MATCH LINE STA 38+00

PARKING LOT NO. 14
SEE PARKING LOT
DETAILS SHEET 3 OF 18

STA 37+06.94 (MAIN PARK ROAD) =
STA 0+00.00 (MARINA ROAD)

N

LEGEND

- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 2"
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
  HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50, 1 1/4"
- PARKING LOT SEAL COAT
- BITUMINOUS SURFACE TREATMENT, A3
- AGGREGATE SURFACE COURSE, TYPE B 2"
- AGGREGATE SHOULDERS, TYPE B 6"
- PAVEMENT REMOVAL

0 100 200 300
SCALE IN FEET

MODEL: $MODELNAMES
FILE NAME: pw:\projectwise.volkert.com:volkert-us-pw\Documents\Projects\115093 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\522007-Sht-Plan.dgn

VOLKERT

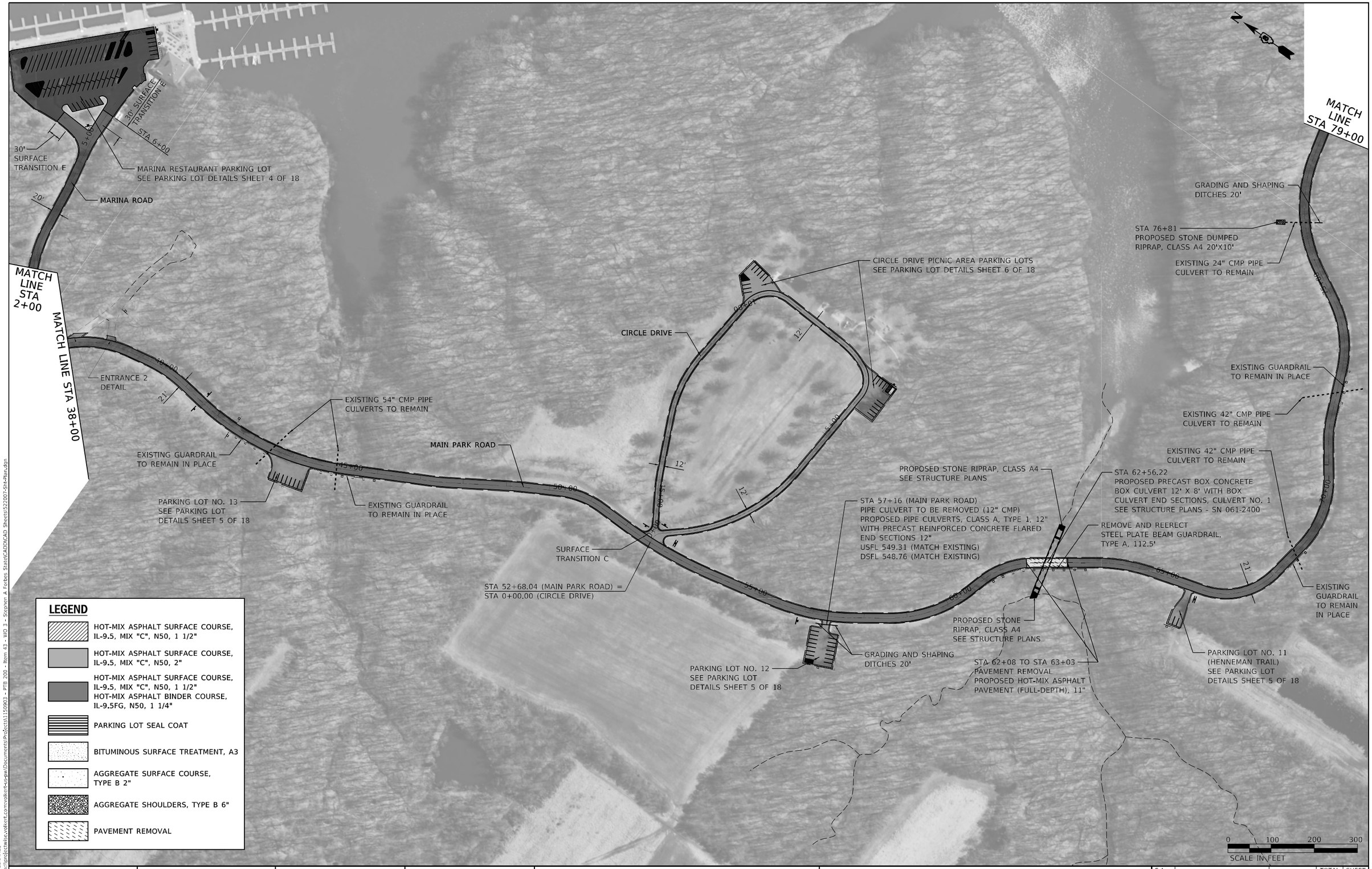
USER NAME = default	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 200 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/24/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=100' | SHEET 1 OF 10 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	30
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			



LEGEND

- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 2"
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
  HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50, 1 1/4"
- PARKING LOT SEAL COAT
- BITUMINOUS SURFACE TREATMENT, A3
- AGGREGATE SURFACE COURSE, TYPE B 2"
- AGGREGATE SHOULDERS, TYPE B 6"
- PAVEMENT REMOVAL

MODEL: $MODELNAME$
FILE NAME: pw:\\projectwise.volkert.com:volkert-ic-pw\Documents\Projects\1150903 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\52207-SH-Plan.dgn

VOLKERT

USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 200 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=100' | SHEET 2 OF 10 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	31
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		

WHIPPOORWILL YOUTH AREA PARKING LOTS
SEE PARKING LOT DETAILS SHEET 7 OF 18

WHIPPOORWILL

N WHIPPOORWILL

STA 2+23.00 (WHIPPOORWILL) =
STA 0+00.00 (N WHIPPOORWILL)

STA 90+44.13 (MAIN PARK ROAD) =
STA 0+00.00 (WHIPPOORWILL)

EXISTING 15" CMP PIPE
CULVERT TO REMAIN

GRADING AND SHAPING
DITCHES 20'

ENTRANCE 2
DETAIL

STA 88+23
PROPOSED STONE DUMPED
RIPRAP, CLASS A4 20'X10'

SURFACE
TRANSITION C

EXISTING 30" CMP PIPE
CULVERT TO REMAIN

GRADING AND SHAPING
DITCHES 20'

STA 94+75 (MAIN PARK ROAD)
PIPE CULVERT TO BE REMOVED (18" CMP)
PROPOSED PIPE CULVERTS, CLASS A, TYPE 2, 18"
WITH PRECAST REINFORCED CONCRETE FLARED
END SECTIONS 18"
USFL 543.19 (MATCH EXISTING)
DSFL 542.29 (MATCH EXISTING)

EXISTING 24" CMP PIPE
CULVERT TO REMAIN

PERSIMMON PICNIC AREA PARKING LOT
SEE PARKING LOT DETAILS SHEET 7 OF 18

EXISTING 24" CMP PIPE
CULVERT TO REMAIN

MATCH
LINE
STA 79+00

SASSAFRAS PICNIC AREA PARKING LOTS
SEE PARKING LOT DETAILS SHEET 8 OF 18

SASSAFRAS

STA 7+47 (SASSAFRAS)
PIPE CULVERT TO BE REMOVED (12" CMP)
PROPOSED PIPE CULVERTS, CLASS A, TYPE 1, 12"
WITH PRECAST REINFORCED CONCRETE FLARED
END SECTION 12"
USFL 542.14
DSFL 541.64

STA 6+29 (SASSAFRAS)
PIPE CULVERT TO BE REMOVED (12" CMP)
PROPOSED PIPE CULVERTS, CLASS A, TYPE 1, 12"
WITH PRECAST REINFORCED CONCRETE FLARED
END SECTIONS 12"
USFL 542.73
DSFL 542.65

STA 1+89 (SASSAFRAS)
PIPE CULVERTS TO BE REMOVED (15" CMP)
PROPOSED PIPE CULVERTS, CLASS A, TYPE 1, 15"
WITH PRECAST REINFORCED CONCRETE FLARED
END SECTIONS 15"
USFL 543.69 (MATCH EXISTING)
DSFL 541.92 (MATCH EXISTING)

STA 101+98.48 (MAIN PARK ROAD) =
STA 0+00.00 (SASSAFRAS)

MAIN PARK ROAD

SURFACE
TRANSITION C

STA 99+22
PROPOSED STONE DUMPED
RIPRAP, CLASS A4 20'X10'

EXISTING 24" CMP PIPE
CULVERT TO REMAIN

STA 96+59 (MAIN PARK ROAD)
PIPE CULVERT TO BE REMOVED (18" CMP)
PROPOSED PIPE CULVERTS, CLASS A, TYPE 2, 18"
WITH PRECAST REINFORCED CONCRETE FLARED
END SECTIONS 18"
USFL 544.41 (MATCH EXISTING)
DSFL 543.55 (MATCH EXISTING)

EXISTING 30" CMP PIPE
CULVERT TO REMAIN

EXISTING 30" CMP PIPE
CULVERT TO REMAIN

PARKING LOT NO. 9
SEE PARKING LOT
DETAILS SHEET 9 OF 18

EXISTING GUARDRAIL
TO REMAIN IN PLACE

GRADING AND SHAPING
DITCHES 20'

STA 113+90 (MAIN PARK ROAD)
PIPE CULVERT TO BE REMOVED (18" CMP)
PROPOSED PIPE CULVERTS, CLASS A, TYPE 2, 18"
WITH PRECAST REINFORCED CONCRETE FLARED
END SECTIONS 18"
USFL 530.90 (MATCH EXISTING)
DSFL 528.62 (MATCH EXISTING)

MATCH LINE STA 115+00

LEGEND

- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 2"
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
  HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50, 1 1/4"
- PARKING LOT SEAL COAT
- BITUMINOUS SURFACE TREATMENT, A3
- AGGREGATE SURFACE COURSE, TYPE B 2"
- AGGREGATE SHOULDERS, TYPE B 6"
- PAVEMENT REMOVAL

0 100 200 300
SCALE IN FEET

MODEL: $MODELNAME$
FILE NAME: pw:\\projectwise.volkert.com:volkert-ucpw\Documents\Projects\11150903 - PTB 200 - Item 43 - W3 3 - Stephen A Forbes State\CADD\CAD Sheets\52007-SH-Plan.dgn

VOLKERT

USER NAME = default	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 200 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/24/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=100' | SHEET 3 OF 10 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	32
		CONTRACT NO. 46933		
		ILLINOIS	FED. AID PROJECT	

MATCH LINE STA 115+00

STA 116+02 (MAIN PARK ROAD)
PIPE CULVERT TO BE REMOVED (12" CMP)
PROPOSED PIPE CULVERTS, CLASS A, TYPE 1, 12"
WITH PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"
USFL 533.09 (MATCH EXISTING)
DSFL 532.78 (MATCH EXISTING)

EXISTING 12" CMP PIPE CULVERT TO REMAIN

BLACK OAK

BLACK OAK PICNIC AREA PARKING LOTS
SEE PARKING LOT DETAILS SHEET 9 OF 18

SURFACE
TRANSITION C

STA 117+83.77 (MAIN PARK ROAD) =
STA 0+00.00 (BLACK OAK)

PARKING LOT NO. 8
(MARLOW POND TRAIL)
SEE PARKING LOT
DETAILS SHEET 9 OF 18

STA 119+48 (MAIN PARK ROAD)
PIPE CULVERT TO BE REMOVED (18" CMP)
PROPOSED PIPE CULVERTS, CLASS A,
TYPE 2, 18" WITH PRECAST REINFORCED
CONCRETE FLARED END SECTIONS 18"
USFL 526.78 (MATCH EXISTING)
DSFL 523.28 (MATCH EXISTING)

STA 116+72 (MAIN PARK ROAD)
PIPE CULVERT TO BE REMOVED (18" CMP)
PROPOSED PIPE CULVERTS, CLASS A,
TYPE 2, 18" WITH PRECAST REINFORCED
CONCRETE FLARED END SECTIONS 18"
USFL 530.04 (MATCH EXISTING)
DSFL 524.62 (MATCH EXISTING)

STA 120+73 (MAIN PARK ROAD)
PIPE CULVERT TO BE REMOVED (18" CMP)
PROPOSED PIPE CULVERTS, CLASS A, TYPE 2, 18"
WITH PRECAST REINFORCED CONCRETE FLARED
END SECTIONS 18"
USFL 530.76 (MATCH EXISTING)
DSFL 526.82 (MATCH EXISTING)

MAIN PARK ROAD

FORBES LAKE

MATCH LINE STA 155+00

LAKESIDE PARKING LOT
SEE PARKING LOT
DETAILS SHEET 10 OF 18

STA 145+81 (MAIN PARK ROAD)
PIPE CULVERT TO BE REMOVED (12" CMP)
PROPOSED PIPE CULVERTS, CLASS A, TYPE 1, 12"
WITH PRECAST REINFORCED CONCRETE FLARED
END SECTIONS 12"
USFL 529.95 (MATCH EXISTING)
DSFL 529.87 (MATCH EXISTING)

EXISTING 18" CMP PIPE
CULVERT TO REMAIN

PARKING LOT NO. 6
(CATTAIL TRAIL)
SEE PARKING LOT
DETAILS SHEET 12 OF 18

METAL FLARED END SECTIONS 18" (DS END ONLY)
(EXISTING DS END SECTION TO BE REMOVED)

N

0 100 200 300
SCALE IN FEET

LEGEND

- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 2"
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
  HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50, 1 1/4"
- PARKING LOT SEAL COAT
- BITUMINOUS SURFACE TREATMENT, A3
- AGGREGATE SURFACE COURSE, TYPE B 2"
- AGGREGATE SHOULDERS, TYPE B 6"
- PAVEMENT REMOVAL

MODEL: $MODELNAME$
FILE NAME: pw:\projectwise.volkert.com:volkert-us-pw\Documents\Projects\1150903 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\52007-SH-Plan.dgn

VOLKERT

USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 200 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=100' | SHEET 4 OF 10 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	33
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		


MATCH LINE STA 183+50
STA 182+83
PROPOSED STONE DUMPED RIPRAP, CLASS A4 20'X10'
21'
EXISTING 18" CMP PIPE CULVERT TO REMAIN
N
180+00
LAKEVIEW BOAT ACCESS PARKING LOTS
SEE PARKING LOT DETAILS SHEETS 10 & 11 OF 18
FORBES LAKE
EXISTING 12" CMP PIPE CULVERTS TO REMAIN
GRADING AND SHAPING DITCHES 20'
175+00
80' SURFACE TRANSITION A
EXISTING 12" CMP PIPE CULVERT TO REMAIN
STA 169+09.05 TO STA 170+22.55
SEE STRUCTURE PLANS - SN 061-9900
EXISTING GUARDRAIL TO REMAIN IN PLACE
STA 170+22.55 TO STA 170+32.55
PAVEMENT REMOVAL
PROPOSED PAVEMENT CONNECTOR (HMA)
FOR BRIDGE APPROACH SLAB
80' SURFACE TRANSITION A
STA 168+97.88 TO STA 169+09.05
PAVEMENT REMOVAL
PROPOSED PAVEMENT CONNECTOR (HMA)
FOR BRIDGE APPROACH SLAB
MAIN PARK ROAD
165+00
LOOKOUT POINT PICNIC AREA PARKING LOT
SEE PARKING LOT DETAILS SHEET 12 OF 18
EXISTING GUARDRAIL TO REMAIN IN PLACE
21'
160+00
155+00
MATCH LINE STA 155+00
LEGEND
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 2"
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50, 1 1/4"
PARKING LOT SEAL COAT
BITUMINOUS SURFACE TREATMENT, A3
AGGREGATE SURFACE COURSE, TYPE B 2"
AGGREGATE SHOULDERS, TYPE B 6"
PAVEMENT REMOVAL
0 100 200 300
SCALE IN FEET

MODEL: $MODELNAME$
FILE NAME: pw:\\projectwise.volkert.com:volkert-us-pw\Documents\Projects\1150903 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\522007-Sht-Plan.dgn

VOLKERT	USER NAME = default	DESIGNED -	REVISED -
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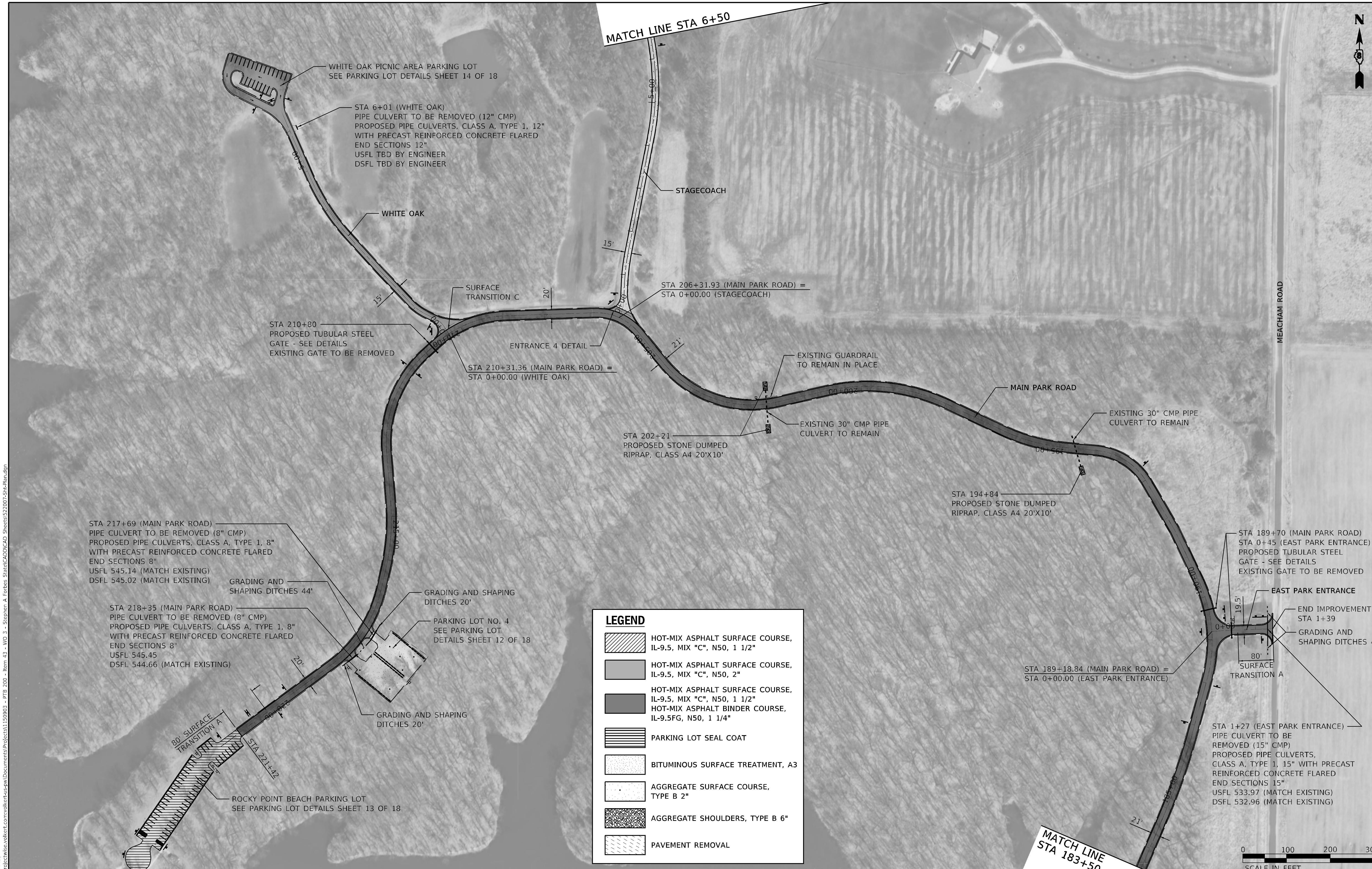
	PLOT SCALE = 200 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=100' | SHEET 5 OF 10 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	34
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		



MATCH LINE STA 6+50
WHITE OAK PICNIC AREA PARKING LOT
SEE PARKING LOT DETAILS SHEET 14 OF 18
STA 6+01 (WHITE OAK)
PIPE CULVERT TO BE REMOVED (12" CMP)
PROPOSED PIPE CULVERTS, CLASS A, TYPE 1, 12"
WITH PRECAST REINFORCED CONCRETE FLARED
END SECTIONS 12"
USFL TBD BY ENGINEER
DSFL TBD BY ENGINEER
STAGECOACH
WHITE OAK
15'
20'
SURFACE
TRANSITION C
STA 206+31.93 (MAIN PARK ROAD) =
STA 0+00.00 (STAGECOACH)
STA 210+80
PROPOSED TUBULAR STEEL
GATE - SEE DETAILS
EXISTING GATE TO BE REMOVED
ENTRANCE 4 DETAIL
21'
STA 210+31.36 (MAIN PARK ROAD) =
STA 0+00.00 (WHITE OAK)
EXISTING GUARDRAIL
TO REMAIN IN PLACE
MAIN PARK ROAD
MEACHAM ROAD
STA 202+21
PROPOSED STONE DUMPED
RIPRAP, CLASS A4 20'X10'
EXISTING 30" CMP PIPE
CULVERT TO REMAIN
EXISTING 30" CMP PIPE
CULVERT TO REMAIN
STA 194+84
PROPOSED STONE DUMPED
RIPRAP, CLASS A4 20'X10'
STA 217+69 (MAIN PARK ROAD)
PIPE CULVERT TO BE REMOVED (8" CMP)
PROPOSED PIPE CULVERTS, CLASS A, TYPE 1, 8"
WITH PRECAST REINFORCED CONCRETE FLARED
END SECTIONS 8"
USFL 545.14 (MATCH EXISTING)
DSFL 545.02 (MATCH EXISTING)
GRADING AND
SHAPING DITCHES 44'
GRADING AND SHAPING
DITCHES 20'
PARKING LOT NO. 4
SEE PARKING LOT
DETAILS SHEET 12 OF 18
STA 218+35 (MAIN PARK ROAD)
PIPE CULVERT TO BE REMOVED (8" CMP)
PROPOSED PIPE CULVERTS, CLASS A, TYPE 1, 8"
WITH PRECAST REINFORCED CONCRETE FLARED
END SECTIONS 8"
USFL 545.45
DSFL 544.66 (MATCH EXISTING)
GRADING AND SHAPING
DITCHES 20'
80' SURFACE
TRANSITION A
STA 221+42
ROCKY POINT BEACH PARKING LOT
SEE PARKING LOT DETAILS SHEET 13 OF 18
STA 189+70 (MAIN PARK ROAD)
STA 0+45 (EAST PARK ENTRANCE)
PROPOSED TUBULAR STEEL
GATE - SEE DETAILS
EXISTING GATE TO BE REMOVED
EAST PARK ENTRANCE
END IMPROVEMENT
STA 1+39
GRADING AND
SHAPING DITCHES 40'
19.5'
80'
SURFACE
TRANSITION A
STA 189+18.84 (MAIN PARK ROAD) =
STA 0+00.00 (EAST PARK ENTRANCE)
STA 1+27 (EAST PARK ENTRANCE)
PIPE CULVERT TO BE
REMOVED (15" CMP)
PROPOSED PIPE CULVERTS,
CLASS A, TYPE 1, 15" WITH PRECAST
REINFORCED CONCRETE FLARED
END SECTIONS 15"
USFL 533.97 (MATCH EXISTING)
DSFL 532.96 (MATCH EXISTING)
MATCH LINE
STA 183+50
N
0 100 200 300
SCALE IN FEET
LEGEND
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 2"
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50, 1 1/4"
PARKING LOT SEAL COAT
BITUMINOUS SURFACE TREATMENT, A3
AGGREGATE SURFACE COURSE, TYPE B 2"
AGGREGATE SHOULDERS, TYPE B 6"
PAVEMENT REMOVAL

VOLKERT

USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 200 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=100' | SHEET 6 OF 10 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	35

CONTRACT NO. 46933

ILLINOIS | FED. AID PROJECT

EXISTING 12" CMP PIPE
CULVERT TO REMAIN

PARKING LOT NO. X
SEE PARKING LOT
DETAILS SHEET 15 OF 18

GRADING AND SHAPING
DITCHES 20'

EXISTING 18" CMP PIPE
CULVERT TO REMAIN

PHILLIPS CREEK TRAIL
PARKING LOT (1)
SEE PARKING LOT
DETAIL SHEET 15 OF 18

EXISTING 48" CMP PIPE
CULVERT TO REMAIN

EXISTING GUARDRAIL
TO REMAIN IN PLACE

PHILLIPS CREEK TRAIL
PARKING LOT (2)
SEE PARKING LOT
DETAILS SHEET 15 OF 18

STAGECOACH

STAGECOACH PICNIC AREA PARKING LOT
SEE PARKING LOT DETAILS SHEET 14 OF 18

EXISTING 36" CMP PIPE
CULVERTS TO REMAIN

EXISTING GUARDRAIL
TO REMAIN IN PLACE

MATCH LINE STA 6+50

LEGEND

- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 2"
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
  HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50, 1 1/4"
- PARKING LOT SEAL COAT
- BITUMINOUS SURFACE TREATMENT, A3
- AGGREGATE SURFACE COURSE, TYPE B 2"
- AGGREGATE SHOULDERS, TYPE B 6"
- PAVEMENT REMOVAL

0 100 200 300
SCALE IN FEET

MODEL: $MODELNAME$
FILE NAME: pw:\\projectwise.volkert.com:volkert-ds-pw\Documents\Project\31159903 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\522007-SHT-Plan.dgn

VOLKERT

USER NAME = default	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 200 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/24/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=100' | SHEET 7 OF 10 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	36
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			

STA 0+22 (NW PARK ROAD)
PIPE CULVERT TO BE REMOVED (8" CMP)
PROPOSED PIPE CULVERTS, CLASS A, TYPE 1, 8"
WITH PRECAST REINFORCED CONCRETE FLARED
END SECTIONS 8"
USFL 562.63 (MATCH EXISTING)
DSFL 562.36 (MATCH EXISTING)

MATCH LINE
STA 3+00

N

NW PARK ROAD

ENTRANCE 6 DETAIL

STA 43+03.98 (N MAIN PARK ROAD) =
STA 0+00.00 (NW PARK ROAD)

N MAIN PARK ROAD

MATCH LINE STA 17+00

PARKING LOT NO. 15
SEE PARKING LOT
DETAILS SHEET 17 OF 18

EXISTING 12" CMP PIPE
CULVERT TO REMAIN

GRADING AND SHAPING
DITCHES 20'

WASTE STATION
SEE PARKING LOT
DETAILS SHEET 16 OF 18

OLD WASTE STATION
SEE PARKING LOT
DETAILS SHEET 16 OF 18

EXISTING 12" CMP PIPE
CULVERT TO REMAIN

MATCH LINE STA 65+00

LEGEND

- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 2"
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
  HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50, 1 1/4"
- PARKING LOT SEAL COAT
- BITUMINOUS SURFACE TREATMENT, A3
- AGGREGATE SURFACE COURSE, TYPE B 2"
- AGGREGATE SHOULDERS, TYPE B 6"
- PAVEMENT REMOVAL

0 100 200 300
SCALE IN FEET

MODEL: $MODELNAMES
FILE NAME: pw:\\projectwise.volkert.com:volkert-dp-pw\Documents\Project\13150903 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\S22007-Sht-Plan.dgn

VOLKERT

USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 200 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=100' | SHEET 8 OF 10 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	37
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			

OAK LOOP C

OAK LOOP B

OAK RIDGE CAMPGROUND
SEE OAK RIDGE CAMPGROUND
PLAN SHEET 2 OF 2

SIDEWALK REMOVAL AND PROPOSED PORTLAND
CEMENT CONCRETE SIDEWALK 4 INCH
SEE PARKING LOT DETAILS SHEET 17 OF 18

TENT CAMPGROUND PARKING LOTS
SEE PARKING LOT DETAILS SHEET 18 OF 18

N MAIN PARK ROAD

STA 80+38 (N MAIN PARK ROAD)
PIPE CULVERT TO BE REMOVED (8" CPP)
PROPOSED PIPE CULVERTS, CLASS A, TYPE 1, 8"
WITH PRECAST REINFORCED CONCRETE FLARED
END SECTIONS 8"
USFL TBD BY ENGINEER
DSFL TBD BY ENGINEER

80' SURFACE TRANSITION A

EXISTING 12" CMP PIPE
CULVERT TO REMAIN

SIDEWALK REMOVE AND PROPOSED PORTLAND
CEMENT CONCRETE SIDEWALK 4 INCH
SEE OAK RIDGE CAMPGROUND PLANS SHEET 2 OF 2

OAK RIDGE CAMPGROUND PARKING LOTS
SEE PARKING LOT DETAILS SHEET 17 OF 18

OAK ROAD B

STA 77+51 (N MAIN PARK ROAD)
PIPE CULVERT TO BE REMOVED (8" CMP)
PROPOSED PIPE CULVERTS, CLASS A, TYPE 1, 8"
WITH PRECAST REINFORCED CONCRETE FLARED
END SECTIONS 8"
USFL TBD BY ENGINEER
DSFL TBD BY ENGINEER

EXISTING 4"
PVC PIPE
CULVERT
TO REMAIN

OAK RIDGE CAMPGROUND
SEE OAK RIDGE CAMPGROUND
PLAN SHEET 1 OF 2

MATCH LINE STA 65+00

EXISTING 12" CMP PIPE
CULVERT TO REMAIN

FISH CLEANING STATION
PARKING LOT
SEE PARKING LOT
DETAILS SHEET 17 OF 18

OAK ROAD A

OAK LOOP A

N MAIN PARK ROAD

LEGEND

- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 2"
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
  HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50, 1 1/4"
- PARKING LOT SEAL COAT
- BITUMINOUS SURFACE TREATMENT, A3
- AGGREGATE SURFACE COURSE, TYPE B 2"
- AGGREGATE SHOULDERS, TYPE B 6"
- PAVEMENT REMOVAL

0 100 200 300
SCALE IN FEET

MODEL: $MODELNAME$
FILE NAME: pw:\\projectwise.volkert.com:volkert-eispw\Documents\Projects\115093 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\522007-Sht-Plan.dgn

VOLKERT

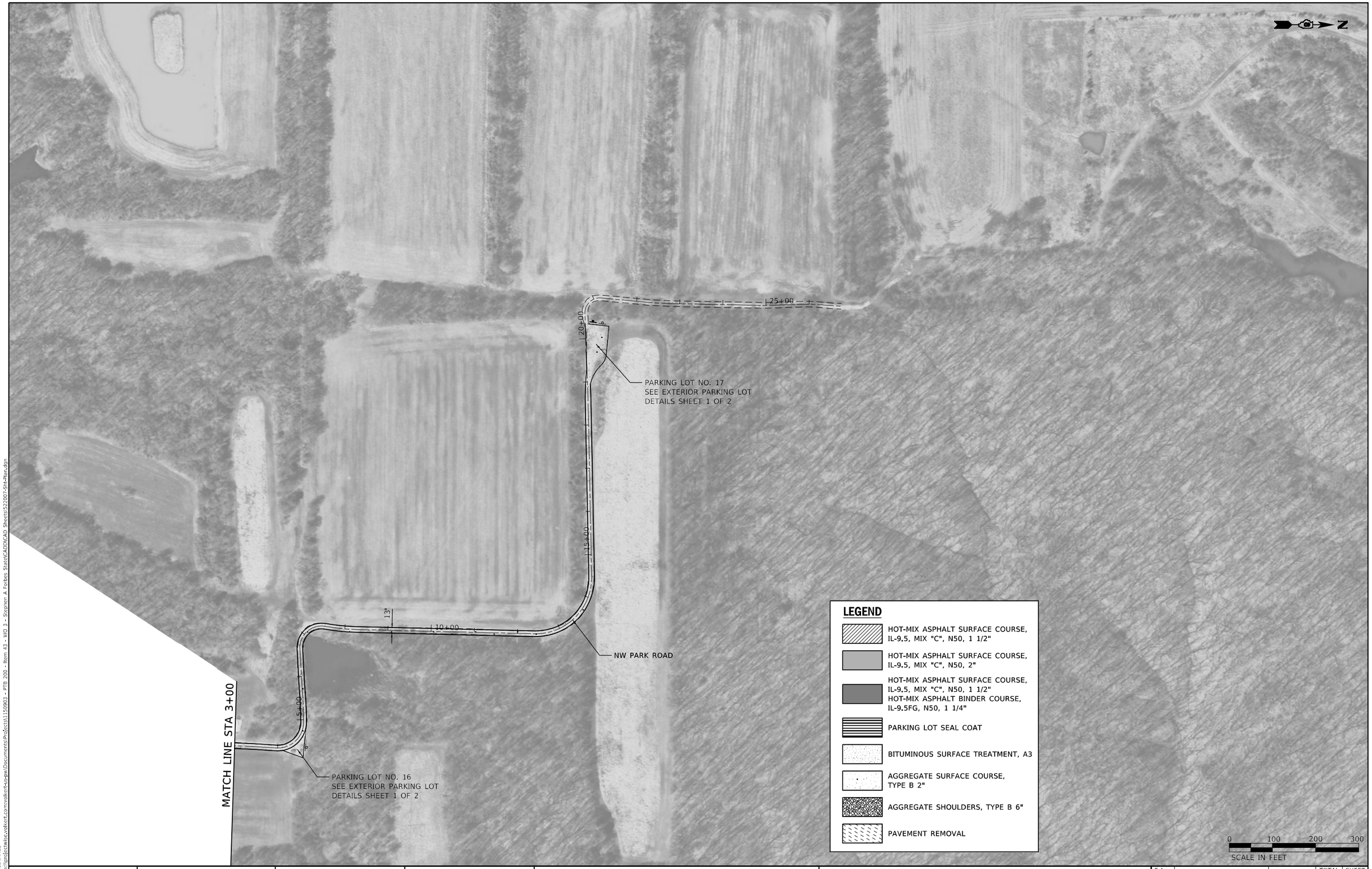
USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 200 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=100' | SHEET 9 OF 10 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	38
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			



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VOLKERT

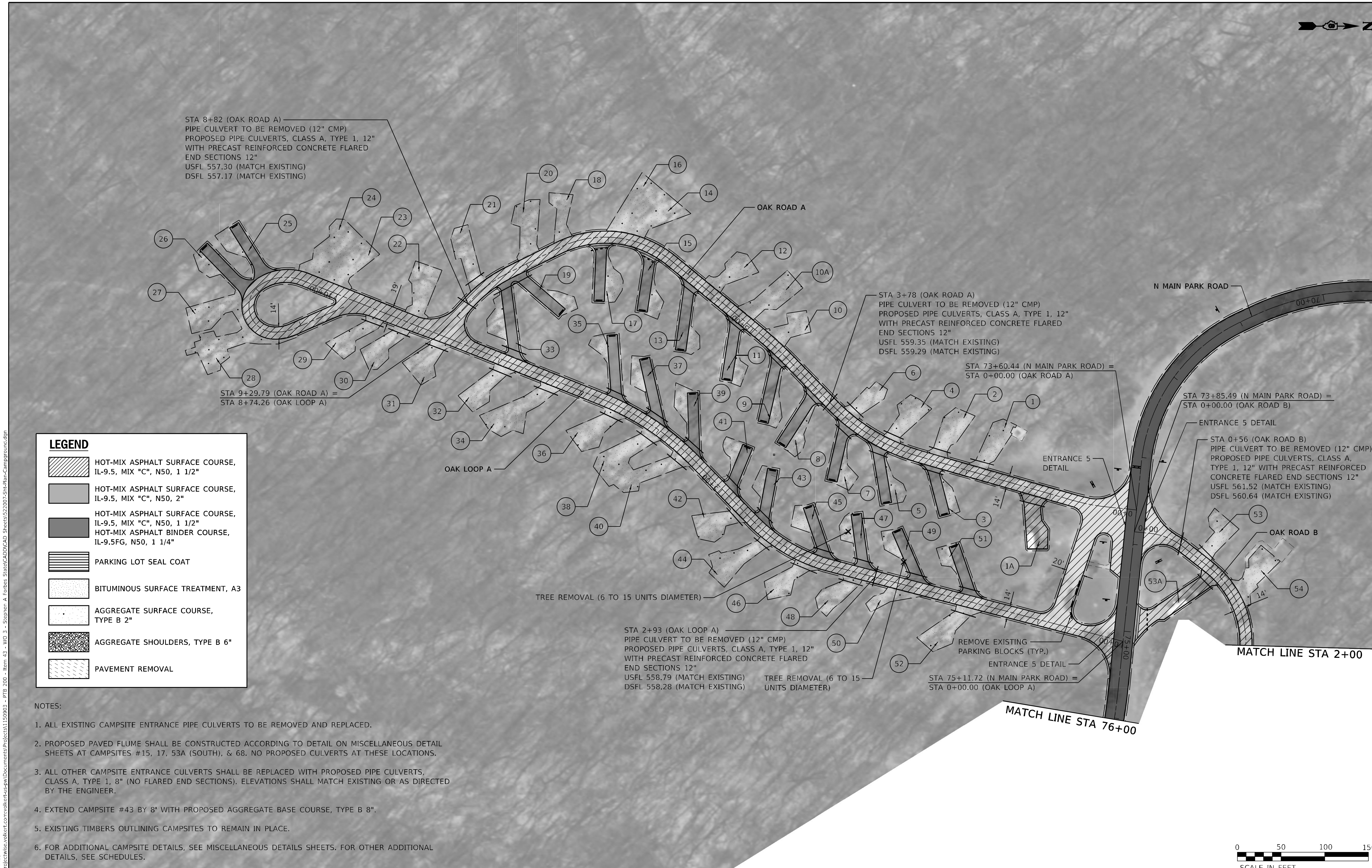
USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 200 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=100' | SHEET 10 OF 10 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	39
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		



LEGEND

- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 2"
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
  HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50, 1 1/4"
- PARKING LOT SEAL COAT
- BITUMINOUS SURFACE TREATMENT, A3
- AGGREGATE SURFACE COURSE, TYPE B 2"
- AGGREGATE SHOULDERS, TYPE B 6"
- PAVEMENT REMOVAL

NOTES:

1. ALL EXISTING CAMPSITE ENTRANCE PIPE CULVERTS TO BE REMOVED AND REPLACED.
2. PROPOSED PAVED FLUME SHALL BE CONSTRUCTED ACCORDING TO DETAIL ON MISCELLANEOUS DETAIL SHEETS AT CAMPSITES #15, 17, 53A (SOUTH), & 68. NO PROPOSED CULVERTS AT THESE LOCATIONS.
3. ALL OTHER CAMPSITE ENTRANCE CULVERTS SHALL BE REPLACED WITH PROPOSED PIPE CULVERTS, CLASS A, TYPE 1, 8" (NO FLARED END SECTIONS). ELEVATIONS SHALL MATCH EXISTING OR AS DIRECTED BY THE ENGINEER.
4. EXTEND CAMPSITE #43 BY 8' WITH PROPOSED AGGREGATE BASE COURSE, TYPE B 8".
5. EXISTING TIMBERS OUTLINING CAMPSITES TO REMAIN IN PLACE.
6. FOR ADDITIONAL CAMPSITE DETAILS, SEE MISCELLANEOUS DETAILS SHEETS. FOR OTHER ADDITIONAL DETAILS, SEE SCHEDULES.

MODEL: $MODELNAME$
FILE NAME: pw:\\projectwise.volkert.com:volkert-us-pw\Documents\Projects\1150903 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\522007-Sht-Plan-Campground.dgn

VOLKERT	USER NAME = default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OAK RIDGE CAMPGROUND PLANS STEPHEN A. FORBES STATE RECREATION AREA
		DRAWN -	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 10/24/2023	DATE -	REVISED -		SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	40
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			

MATCH LINE STA 2+00

MATCH LINE STA 76+00

STA 3+63 (OAK ROAD B)
PIPE CULVERT TO BE REMOVED (8" CMP)
PROPOSED PIPE CULVERTS, CLASS A, TYPE 1, 8"
WITH PRECAST REINFORCED CONCRETE FLARED
END SECTIONS 8"
USFL TBD BY ENGINEER
DSFL TBD BY ENGINEER

SIDEWALK REMOVAL AND
PROPOSED PORTLAND CEMENT
CONCRETE SIDEWALK 4 INCH

STA 4+74 (OAK ROAD B)
PIPE CULVERT TO BE REMOVED (8" CMP)
PROPOSED PIPE CULVERTS, CLASS A, TYPE 1, 8"
WITH PRECAST REINFORCED CONCRETE FLARED
END SECTIONS 8"
USFL 560.09 (MATCH EXISTING)
DSFL 559.97 (MATCH EXISTING)

OAK ROAD B

OAK LOOP B

STA 3+31.73 (OAK LOOP B) =
STA 8+37.54 (OAK ROAD B)

STA 2+99 (OAK LOOP B)
PIPE CULVERT TO BE REMOVED (12" CMP)
PROPOSED PIPE CULVERTS, CLASS A, TYPE 1, 12"
WITH PRECAST REINFORCED CONCRETE FLARED
END SECTIONS 12"
USFL 558.49 (MATCH EXISTING)
DSFL 557.97 (MATCH EXISTING)

EXISTING 12" RCP PIPE
CULVERT TO REMAIN

STA 78+31.39 (N MAIN PARK ROAD) =
STA 0+00.00 (OAK LOOP B)

ENTRANCE 5 DETAIL

STA 79+64.40 (N MAIN PARK ROAD) =
STA 0+00.00 (OAK LOOP C)

STA 0+21 (OAK LOOP C)
PIPE CULVERT TO BE REMOVED (8" CMP)
PROPOSED PIPE CULVERTS, CLASS A,
TYPE 1, 8" WITH PRECAST REINFORCED
CONCRETE FLARED END SECTIONS 8"
USFL 559.62 (MATCH EXISTING)
DSFL 559.15 (MATCH EXISTING)

SIDEWALK REMOVAL AND PROPOSED PORTLAND
CEMENT CONCRETE SIDEWALK 4 INCH
SEE PARKING LOT DETAILS SHEET 17 OF 18

N MAIN PARK ROAD

OAK LOOP C

N

LEGEND

- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 2"
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
  HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50, 1 1/4"
- PARKING LOT SEAL COAT
- BITUMINOUS SURFACE TREATMENT, A3
- AGGREGATE SURFACE COURSE, TYPE B 2"
- AGGREGATE SHOULDERS, TYPE B 6"
- PAVEMENT REMOVAL

NOTES:

1. ALL EXISTING CAMPSITE ENTRANCE PIPE CULVERTS TO BE REMOVED AND REPLACED.
2. PROPOSED PAVED FLUME SHALL BE CONSTRUCTED ACCORDING TO DETAIL ON MISCELLANEOUS DETAIL SHEETS AT CAMPSITES #15, 17, 53A (SOUTH), & 68. NO PROPOSED CULVERTS AT THESE LOCATIONS.
3. ALL OTHER CAMPSITE ENTRANCE CULVERTS SHALL BE REPLACED WITH PROPOSED PIPE CULVERTS, CLASS A, TYPE 1, 8" (NO FLARED END SECTIONS). ELEVATIONS SHALL MATCH EXISTING OR AS DIRECTED BY THE ENGINEER.
4. EXTEND CAMPSITE #43 BY 8' WITH PROPOSED AGGREGATE BASE COURSE, TYPE B 8".
5. EXISTING TIMBERS OUTLINING CAMPSITES TO REMAIN IN PLACE.
6. FOR ADDITIONAL CAMPSITE DETAILS, SEE MISCELLANEOUS DETAILS SHEETS. FOR OTHER ADDITIONAL DETAILS, SEE SCHEDULES.

0 50 100 150
SCALE IN FEET

MODEL: $MODELNAMES
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VOLKERT

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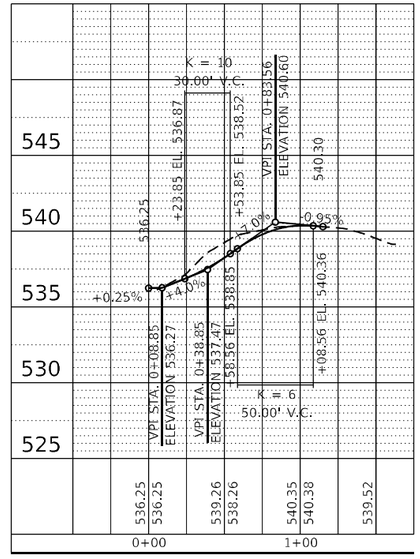
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/24/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OAK RIDGE CAMPGROUND PLANS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=50' | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	41
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		



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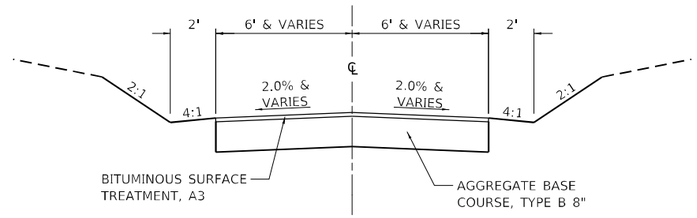

SECTION A-A

PROPOSED ENTRANCE DETAIL

LEGEND

- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 2"
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2" HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50, 1 1/4"
- PARKING LOT SEAL COAT
- BITUMINOUS SURFACE TREATMENT, A3
- AGGREGATE SURFACE COURSE, TYPE B 2"
- AGGREGATE SHOULDERS, TYPE B 6"
- PAVEMENT REMOVAL

EQUESTRIAN CAMPGROUND		
POINT NUMBER	NORTHING	EASTING
A1	742,348.651	862,070.591
A2	742,348.651	862,093.629
A3	742,348.651	862,120.206
A4	742,363.107	862,086.963
A5	742,367.429	862,103.627
A6	742,424.995	862,096.702
A7	742,423.508	862,108.610
A8	742,437.221	862,110.321
A9	742,457.794	862,100.796
A10	742,494.619	862,098.532
A11	742,497.088	862,133.288

0 50 100 150
SCALE IN FEET

VOLKERT

USER NAME = default	DESIGNED -	REVISED -	
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PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/24/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EQUESTRIAN CAMPGROUND PLAN
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=50' | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	42
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			

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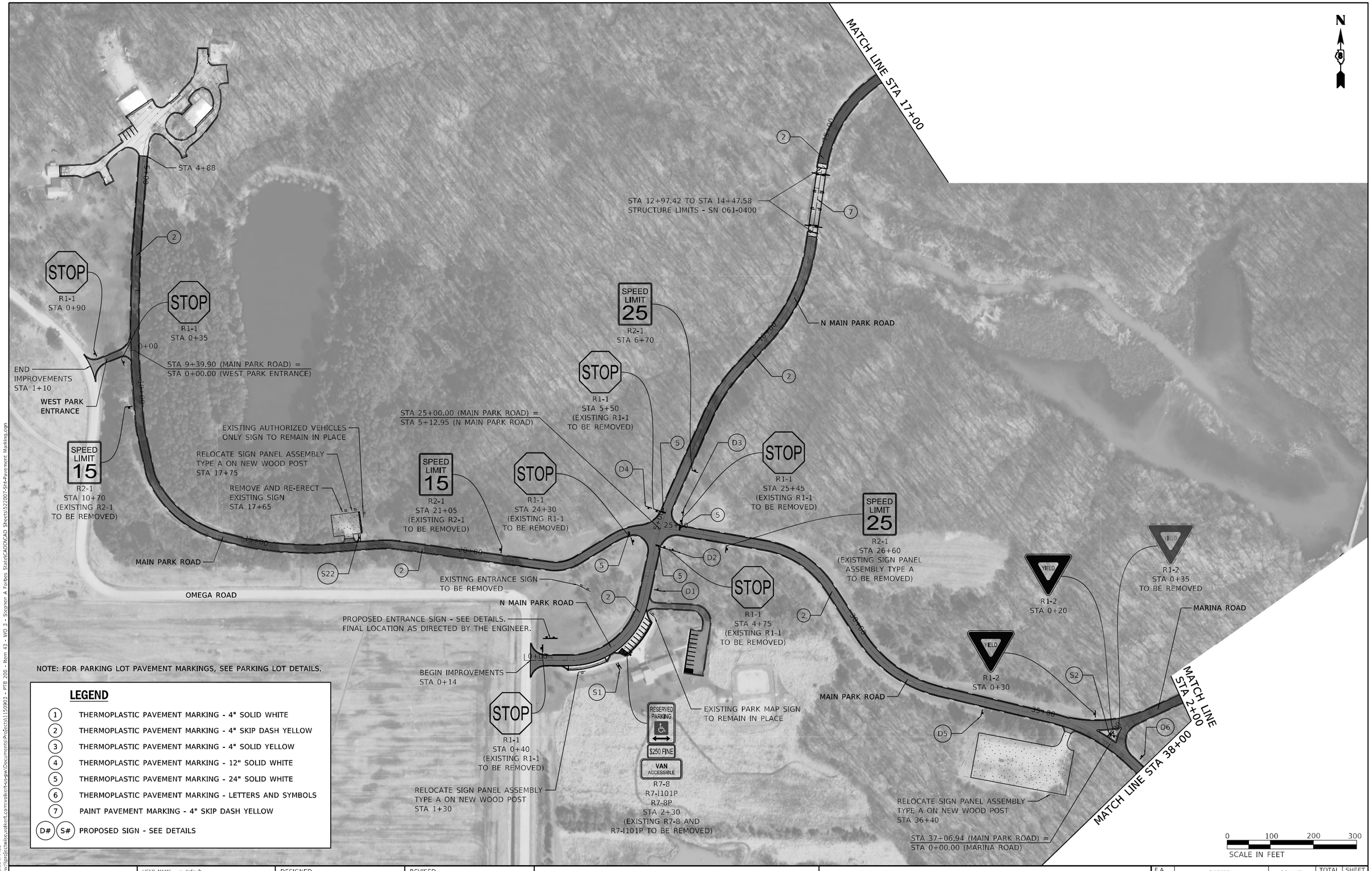

NOTE: FOR PARKING LOT PAVEMENT MARKINGS, SEE PARKING LOT DETAILS.

LEGEND

(1)	THERMOPLASTIC PAVEMENT MARKING - 4" SOLID WHITE
(2)	THERMOPLASTIC PAVEMENT MARKING - 4" SKIP DASH YELLOW
(3)	THERMOPLASTIC PAVEMENT MARKING - 4" SOLID YELLOW
(4)	THERMOPLASTIC PAVEMENT MARKING - 12" SOLID WHITE
(5)	THERMOPLASTIC PAVEMENT MARKING - 24" SOLID WHITE
(6)	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
(7)	PAINT PAVEMENT MARKING - 4" SKIP DASH YELLOW
(D#) (S#)	PROPOSED SIGN - SEE DETAILS

VOLKERT

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PLOT SCALE = 200.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/24/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLANS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=100' | SHEET 1 OF 10 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	43
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		

MODEL: $MODELNAMES
FILE NAME: pw:\projectwise.volkert.com:volkert-us-pw\Documents\Projects\115093 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\52207-Sht-Pavement Marking.dgn

MARINA ROAD

MATCH LINE STA 2+00

MATCH LINE STA 38+00

MATCH LINE STA 79+00

MAIN PARK ROAD

CIRCLE DRIVE

R7-8
R7-I101P
R7-8P
(EXISTING R7-8, R7-I101P, AND R7-8P TO BE REMOVED)

EXISTING PARKING FOR RESTAURANT ONLY SIGNS (5) TO REMAIN IN PLACE

M6-1R
STA 5+50
(EXISTING M6-1 TO BE REMOVED)

EXISTING AUTHORIZED VEHICLES ONLY SIGN TO REMAIN IN PLACE

R2-1
STA 41+50

R2-1
STA 42+45
TO BE REMOVED

RELOCATE SIGN PANEL ASSEMBLY TYPE A ON NEW WOOD POST
STA 44+00

R1-1
STA 16+10

R6-2R
STA 0+45
(EXISTING R6-2R TO BE REMOVED)

R7-8
R7-I101P
R7-8P
STA 6+55

STA 52+68.04 (MAIN PARK ROAD) =
STA 0+00.00 (CIRCLE DRIVE)

W1-5
STA 56+50
(EXISTING W1-5 TO BE REMOVED)

REMOVE AND RE-ERECT EXISTING SIGN
STA 57+10

RELOCATE SIGN PANEL ASSEMBLY TYPE A ON NEW WOOD POST
STA 65+75

REMOVE AND RE-ERECT EXISTING SIGN
STA 65+90

NOTE: FOR PARKING LOT PAVEMENT MARKINGS, SEE PARKING LOT DETAILS.

LEGEND

(1) THERMOPLASTIC PAVEMENT MARKING - 4" SOLID WHITE
(2) THERMOPLASTIC PAVEMENT MARKING - 4" SKIP DASH YELLOW
(3) THERMOPLASTIC PAVEMENT MARKING - 4" SOLID YELLOW
(4) THERMOPLASTIC PAVEMENT MARKING - 12" SOLID WHITE
(5) THERMOPLASTIC PAVEMENT MARKING - 24" SOLID WHITE
(6) THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
(7) PAINT PAVEMENT MARKING - 4" SKIP DASH YELLOW
(D#) (S#) PROPOSED SIGN - SEE DETAILS

0 100 200 300
SCALE IN FEET

MODEL: $MODELNAME$
FILE NAME: pw:\projectwise.volkert.com:volkert-us-pw\Documents\Projects\11509903 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\52207-Sht-Pavement Marking.dgn

VOLKERT

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PLOT SCALE = 200.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/24/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLANS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=100' | SHEET 2 OF 10 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	44
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		

RESERVED PARKING
$250 FINE
VAN ACCESSIBLE
R7-8
R7-I101P
R7-8P
STA 8+35
(EXISTING R7-8 AND R7-I101P TO BE REMOVED)

RELOCATE SIGN PANEL ASSEMBLY TYPE A ON NEW WOOD POST

RELOCATE SIGN PANEL ASSEMBLY TYPE A ON NEW WOOD POST

YIELD
R1-2
STA 0+30

WHIPPOORWILL

RELOCATE SIGN PANEL ASSEMBLY TYPE A ON NEW WOOD POST
STA 7+60

RESERVED PARKING
$250 FINE
VAN ACCESSIBLE
R7-8
R7-I101P
R7-8P
STA 2+80

SASSAFRAS

STA 2+23.00 (WHIPPOORWILL) =
STA 0+00.00 (N WHIPPOORWILL)

N WHIPPOORWILL

STOP
R1-1
STA 0+30

STOP
R1-1
STA 0+15

STOP
R1-1
STA 0+30

EXISTING CLOSED TO HUNTING AND ALL MOTOR VEHICLES RESTRICTED SIGNS TO REMAIN IN PLACE

STA 108+98.48 (MAIN PARK ROAD) =
STA 0+00.00 (SASSAFRAS)

S7

D8

S6

2

D7

SPEED LIMIT 25
R2-1
STA 89+00
(EXISTING R2-1 TO BE REMOVED)

STA 90+44.13 (MAIN PARK ROAD) =
STA 0+00.00 (WHIPPOORWILL)

MAIN PARK ROAD

RELOCATE SIGN PANEL ASSEMBLY TYPE A ON NEW WOOD POST
STA 81+00

S5

2

AUTHORIZED VEHICLES ONLY
R5-11
STA 106+85
(EXISTING SIGN PANEL ASSEMBLY TYPE A TO BE REMOVED)

REMOVE AND RE-ERECT EXISTING SIGN
STA 106+95

2

MATCH LINE STA 79+00

MATCH LINE STA 115+00

NOTE: FOR PARKING LOT PAVEMENT MARKINGS, SEE PARKING LOT DETAILS.

LEGEND

(1)	THERMOPLASTIC PAVEMENT MARKING - 4" SOLID WHITE
(2)	THERMOPLASTIC PAVEMENT MARKING - 4" SKIP DASH YELLOW
(3)	THERMOPLASTIC PAVEMENT MARKING - 4" SOLID YELLOW
(4)	THERMOPLASTIC PAVEMENT MARKING - 12" SOLID WHITE
(5)	THERMOPLASTIC PAVEMENT MARKING - 24" SOLID WHITE
(6)	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
(7)	PAINT PAVEMENT MARKING - 4" SKIP DASH YELLOW
(D#) (S#)	PROPOSED SIGN - SEE DETAILS

0 100 200 300
SCALE IN FEET

MODEL: $MODELNAME$
FILE NAME: pw:\projectwise.volkert.com:volkert-eisgw\Documents\Projects\115093 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\522007-Sht-Pavement Marking.dgn

VOLKERT

USER NAME = default	DESIGNED -	REVISED -	
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PLOT SCALE = 200.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/24/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLANS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=100' | SHEET 3 OF 10 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	45
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			

MATCH LINE STA 115+00

STOP
R1-1
STA 0+25

S8

S9

STA 117+83.17 (MAIN PARK ROAD) =
STA 0+00.00 (BLACK OAK)

BLACK OAK

SPEED LIMIT 25
R2-1
STA 120+25
(EXISTING R2-1
TO BE REMOVED)

REMOVE AND RE-ERECT
EXISTING SIGN
STA 115+65

REMOVE AND RE-ERECT
EXISTING SIGN
STA 115+80

RELOCATE SIGN PANEL ASSEMBLY
TYPE A ON NEW WOOD POST
STA 8+55

FORBES LAKE

RS-061 (W, MODIFIED)
STA 8+50
(EXISTING RS-061
TO BE REMOVED)

2

MAIN PARK ROAD

N

0 100 200 300
SCALE IN FEET

MATCH LINE STA 155+00

SPEED LIMIT 25
R2-1
STA 136+25
(EXISTING R2-1
TO BE REMOVED)

2

S10

EXISTING SIGN TO
REMAIN IN PLACE

REMOVE AND RE-ERECT
EXISTING SIGN
STA 145+70

RELOCATE SIGN PANEL ASSEMBLY
TYPE A ON NEW WOOD POST
STA 145+80

NOTE: FOR PARKING LOT PAVEMENT MARKINGS, SEE PARKING LOT DETAILS.

LEGEND

(1)	THERMOPLASTIC PAVEMENT MARKING - 4" SOLID WHITE
(2)	THERMOPLASTIC PAVEMENT MARKING - 4" SKIP DASH YELLOW
(3)	THERMOPLASTIC PAVEMENT MARKING - 4" SOLID YELLOW
(4)	THERMOPLASTIC PAVEMENT MARKING - 12" SOLID WHITE
(5)	THERMOPLASTIC PAVEMENT MARKING - 24" SOLID WHITE
(6)	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
(7)	PAINT PAVEMENT MARKING - 4" SKIP DASH YELLOW
(D#) (S#)	PROPOSED SIGN - SEE DETAILS

MODEL: $MODELNAME$
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VOLKERT

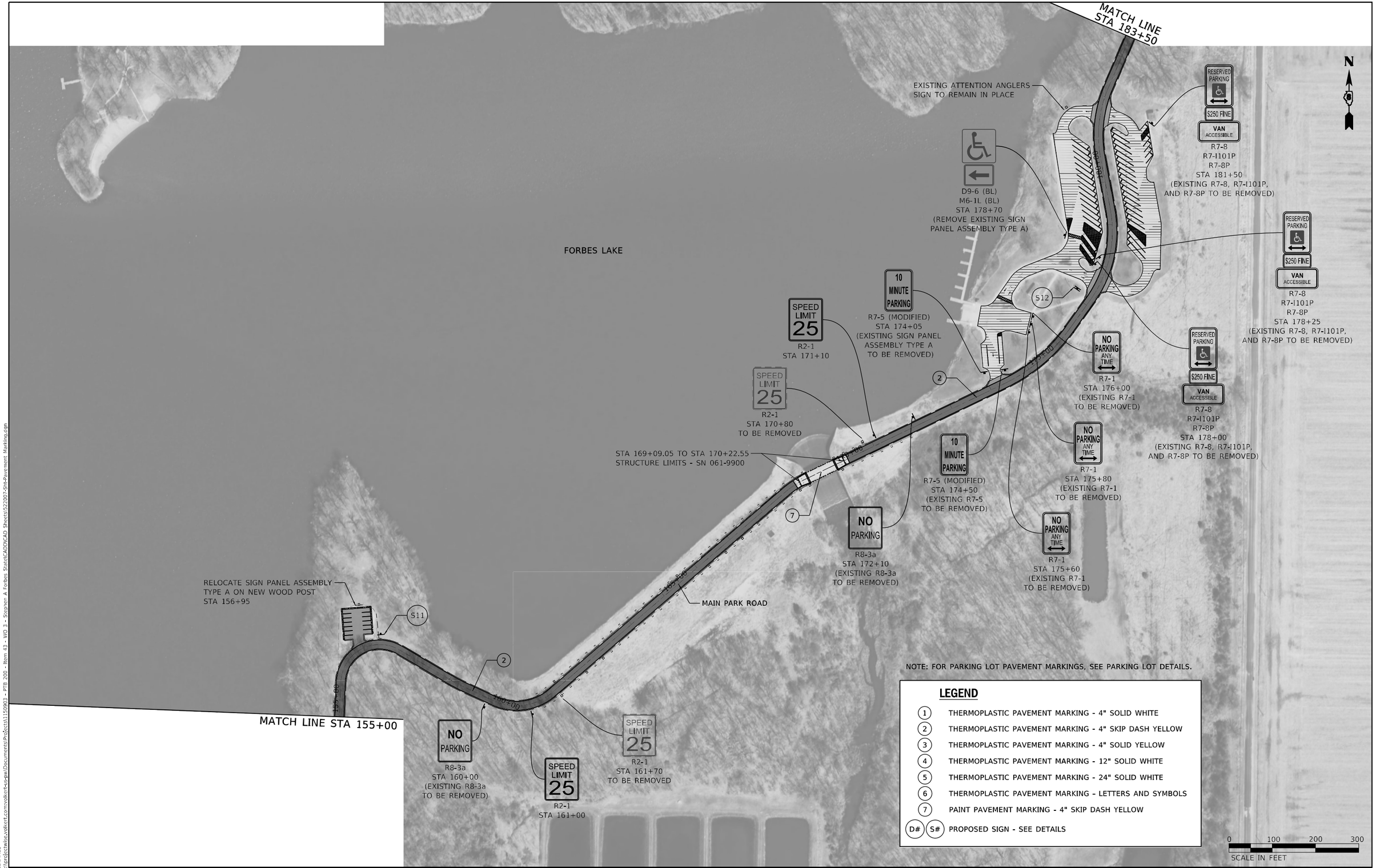
USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 200.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLANS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=100' | SHEET 4 OF 10 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	46
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			



NOTE: FOR PARKING LOT PAVEMENT MARKINGS, SEE PARKING LOT DETAILS.

LEGEND

1	THERMOPLASTIC PAVEMENT MARKING - 4" SOLID WHITE
2	THERMOPLASTIC PAVEMENT MARKING - 4" SKIP DASH YELLOW
3	THERMOPLASTIC PAVEMENT MARKING - 4" SOLID YELLOW
4	THERMOPLASTIC PAVEMENT MARKING - 12" SOLID WHITE
5	THERMOPLASTIC PAVEMENT MARKING - 24" SOLID WHITE
6	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
7	PAINT PAVEMENT MARKING - 4" SKIP DASH YELLOW
D# S#	PROPOSED SIGN - SEE DETAILS

VOLKERT

USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 200.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLANS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=100' | SHEET 5 OF 10 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	47
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			

MODEL: $MODELNAME$
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MATCH LINE STA 6+50

N

ONE WAY
R6-2L

DO NOT ENTER
R5-1

S14

WHITE OAK

SPEED LIMIT 25
R2-1
STA 6+30
(EXISTING R2-1
TO BE REMOVED)

STAGECOACH

STOP
R1-1
STA 0+55
(EXISTING R1-1
TO BE REMOVED)

D12

STA 206+31.93 (MAIN PARK ROAD) =
STA 0+00.00 (STAGECOACH)

STOP
R1-1
STA 0+50

D13

STA 210+31.36 (MAIN PARK ROAD) =
STA 0+00.00 (WHITE OAK)

SPEED LIMIT 15
R2-1
STA 211+50
(EXISTING R2-1
TO BE REMOVED)

SPEED LIMIT 25
R2-1
STA 211+50
(EXISTING R2-1
TO BE REMOVED)

MAIN PARK ROAD

NO PARKING
R8-3a
STA 220+00
(EXISTING SIGN PANEL
ASSEMBLY TYPE A
TO BE REMOVED)

NO PARKING
R8-3a
STA 221+85
(EXISTING SIGN PANEL
ASSEMBLY TYPE A
TO BE REMOVED)

RESERVED PARKING
$250 FINE
VAN ACCESSIBLE
R7-8
R7-I101P
R7-8P
(EXISTING R7-8 AND
R7-I101P TO BE REMOVED)

S13

RELOCATE SIGN PANEL ASSEMBLY
TYPE A ON NEW WOOD POST
STA 218+00

REMOVE SIGN PANEL
ASSEMBLY TYPE A
STA 218+55

STA 221+42

SPEED LIMIT 15
R2-1
STA 220+40

SPEED LIMIT 15
R2-1
TO BE REMOVED

NO PARKING
R8-3a
(EXISTING R8-3a
TO BE REMOVED)

RELOCATE SIGN PANEL ASSEMBLY
TYPE A ON NEW WOOD POST

MEACHAM ROAD

SPEED LIMIT 25
R2-1
STA 193+30
(EXISTING R2-1
TO BE REMOVED)

YIELD
R1-2
STA 0+30

YIELD
R1-2
STA 0+50
TO BE REMOVED

PROPOSED ENTRANCE SIGN -
SEE DETAILS. FINAL
LOCATION AS DIRECTED
BY THE ENGINEER.
EXISTING ENTRANCE SIGN
TO BE REMOVED.

D11

D10

END IMPROVEMENTS
STA 1+39

STA 189+18.84 (MAIN PARK ROAD) =
STA 0+00.00 (EAST PARK ENTRANCE)

EAST PARK
ENTRANCE

STOP
R1-1
STA 1+15
(EXISTING R1-1
TO BE REMOVED)

D9

SPEED LIMIT 25
R2-1
STA 187+00
(EXISTING R2-1
TO BE REMOVED)

NOTE: FOR PARKING LOT PAVEMENT MARKINGS, SEE PARKING LOT DETAILS.

LEGEND

(1)	THERMOPLASTIC PAVEMENT MARKING - 4" SOLID WHITE
(2)	THERMOPLASTIC PAVEMENT MARKING - 4" SKIP DASH YELLOW
(3)	THERMOPLASTIC PAVEMENT MARKING - 4" SOLID YELLOW
(4)	THERMOPLASTIC PAVEMENT MARKING - 12" SOLID WHITE
(5)	THERMOPLASTIC PAVEMENT MARKING - 24" SOLID WHITE
(6)	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
(7)	PAINT PAVEMENT MARKING - 4" SKIP DASH YELLOW
(D#) (S#)	PROPOSED SIGN - SEE DETAILS

MATCH LINE STA 183+50

0 100 200 300
SCALE IN FEET

MODEL: $MODELNAMES
FILE NAME: pw:\\projectwise.volkert.com:volkert-dpw\Documents\Projects\115090\3 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\522007-Sht-Pavement Marking.dgn

VOLKERT

USER NAME = default	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 200.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/24/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLANS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=100' | SHEET 6 OF 10 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	48
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		

NOTE: FOR PARKING LOT PAVEMENT MARKINGS, SEE PARKING LOT DETAILS.

LEGEND

(1)	THERMOPLASTIC PAVEMENT MARKING - 4" SOLID WHITE
(2)	THERMOPLASTIC PAVEMENT MARKING - 4" SKIP DASH YELLOW
(3)	THERMOPLASTIC PAVEMENT MARKING - 4" SOLID YELLOW
(4)	THERMOPLASTIC PAVEMENT MARKING - 12" SOLID WHITE
(5)	THERMOPLASTIC PAVEMENT MARKING - 24" SOLID WHITE
(6)	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
(7)	PAINT PAVEMENT MARKING - 4" SKIP DASH YELLOW
(D#) (S#)	PROPOSED SIGN - SEE DETAILS

MODEL: $MODELNAME$
FILE NAME: pw:\\projectwise.volkert.com:volkert-ic-pw\Documents\Projects\1150903 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\52007-SH-Pavement Marking.dgn

VOLKERT

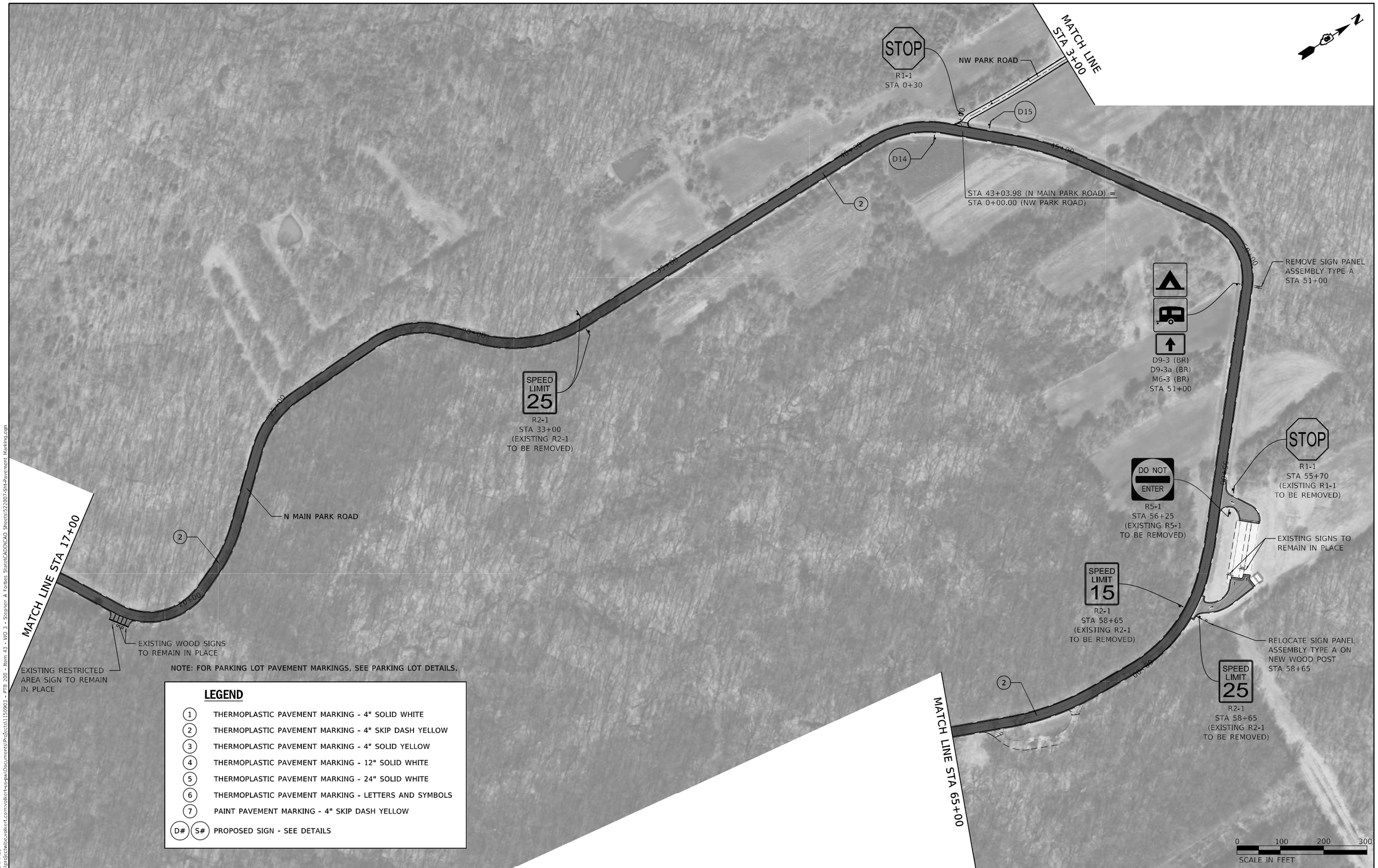
USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 200.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLANS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=100' | SHEET 7 OF 10 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	49
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		



NOTE: FOR PARKING LOT PAVEMENT MARKINGS, SEE PARKING LOT DETAILS.

LEGEND

(1)	THERMOPLASTIC PAVEMENT MARKING - 4" SOLID WHITE
(2)	THERMOPLASTIC PAVEMENT MARKING - 4" SKIP DASH YELLOW
(3)	THERMOPLASTIC PAVEMENT MARKING - 4" SOLID YELLOW
(4)	THERMOPLASTIC PAVEMENT MARKING - 12" SOLID WHITE
(5)	THERMOPLASTIC PAVEMENT MARKING - 24" SOLID WHITE
(6)	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
(7)	PAINT PAVEMENT MARKING - 4" SKIP DASH YELLOW
(D#) (S#)	PROPOSED SIGN - SEE DETAILS

MODEL: $MODELNAME$
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VOLKERT

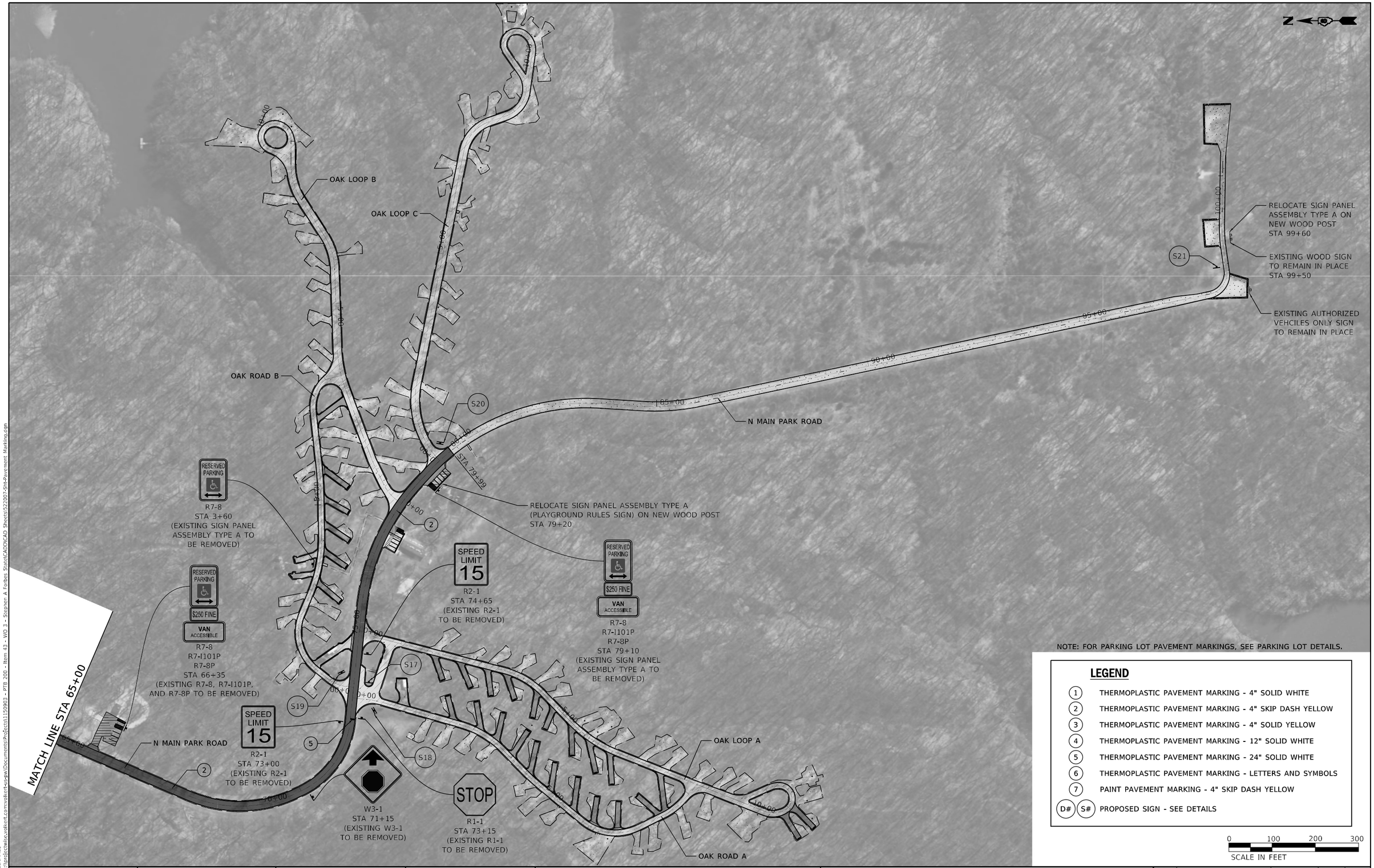
USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 200.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLANS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=100' | SHEET 8 OF 10 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	50
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		



NOTE: FOR PARKING LOT PAVEMENT MARKINGS, SEE PARKING LOT DETAILS.

LEGEND

- (1) THERMOPLASTIC PAVEMENT MARKING - 4" SOLID WHITE
- (2) THERMOPLASTIC PAVEMENT MARKING - 4" SKIP DASH YELLOW
- (3) THERMOPLASTIC PAVEMENT MARKING - 4" SOLID YELLOW
- (4) THERMOPLASTIC PAVEMENT MARKING - 12" SOLID WHITE
- (5) THERMOPLASTIC PAVEMENT MARKING - 24" SOLID WHITE
- (6) THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
- (7) PAINT PAVEMENT MARKING - 4" SKIP DASH YELLOW
- (D#) (S#) PROPOSED SIGN - SEE DETAILS

0 100 200 300
SCALE IN FEET

MODEL: $MODELNAME$
FILE NAME: pw:\\projectwise.volkert.com:volkert-us-pw\Documents\Projects\115093 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\52007-Sht-Pavement Marking.dgn

VOLKERT

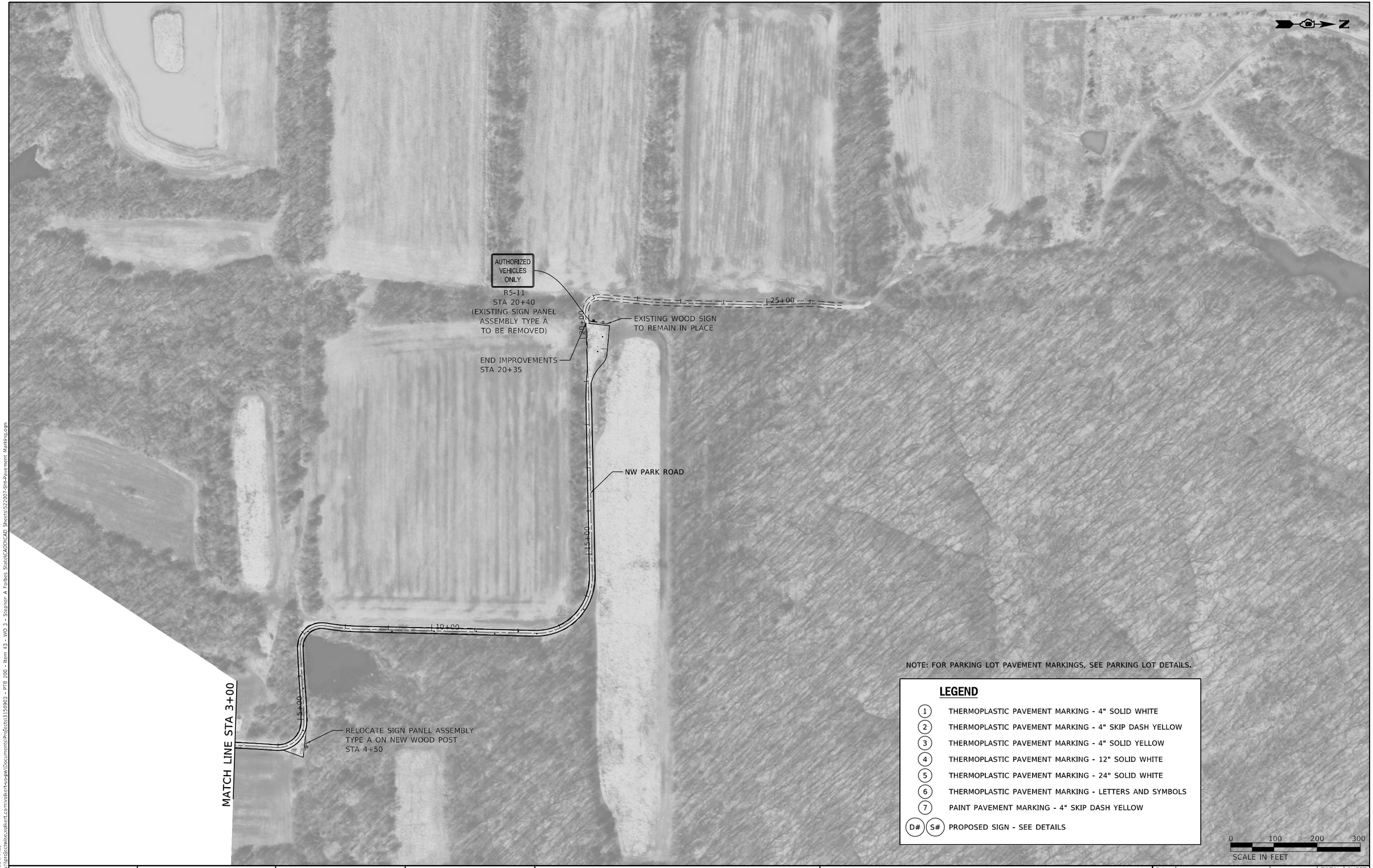
USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 200.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLANS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=100' | SHEET 9 OF 10 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	51
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		



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VOLKERT

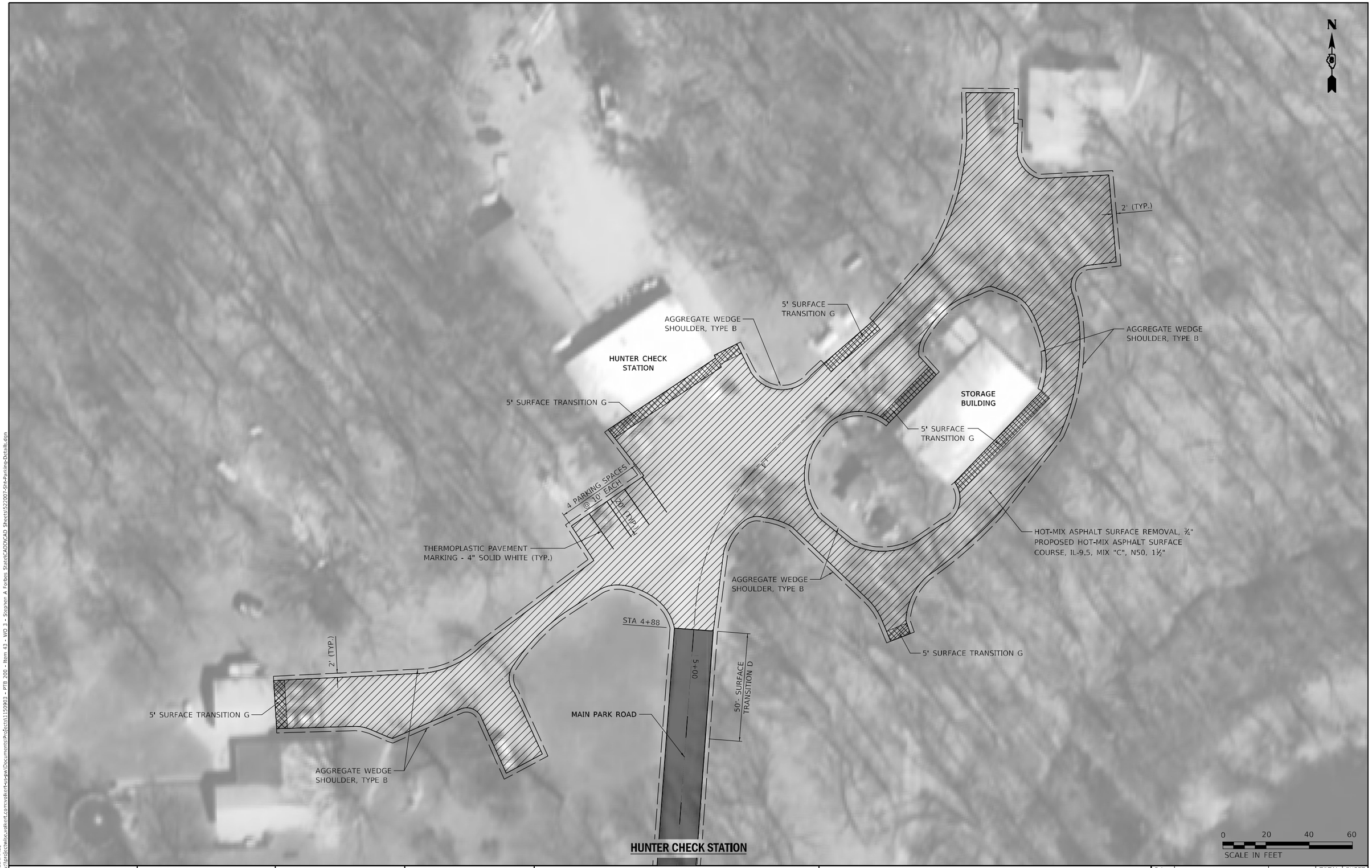
USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 200.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLANS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=100' | SHEET 10 OF 10 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	52
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			



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VOLKERT

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PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARKING LOT DETAILS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 1 OF 18 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	53
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			

MAIN PARK ROAD

ENTRANCE 3 DETAIL

THERMOPLASTIC PAVEMENT MARKING - 4" SOLID WHITE (TYP.)

ENTRANCE 5 DETAIL

SITE OFFICE PARKING LOT A

HOT-MIX ASPHALT SURFACE REMOVAL, ¾"
PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1½"

N MAIN PARK ROAD

THERMOPLASTIC PAVEMENT MARKING - 4" SOLID WHITE (TYP.)

ENTRANCE 5 DETAIL

BEGIN IMPROVEMENTS
STA 0+14

0+00

80' SURFACE TRANSITION A

OMEGA ROAD

HOT-MIX ASPHALT SURFACE REMOVAL, ¾"
PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1½"

SITE OFFICE BUS & RV PARKING LOT

5' SURFACE TRANSITION G

AGGREGATE WEDGE SHOULDER, TYPE B

HANDICAP PARKING SPACE - SEE DETAILS

8 PARKING SPACES @ 10' EACH

5' SURFACE TRANSITION G

SITE OFFICE

REMOVE AND REINSTALL PARKING BLOCKS (TYP.)

AGGREGATE WEDGE SHOULDER, TYPE B

A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13

PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", 2"

9 PARKING SPACES @ 10' EACH

THERMOPLASTIC PAVEMENT MARKING - 4" SOLID WHITE (TYP.)

SITE OFFICE PARKING LOT B

N

0 20 40 60
SCALE IN FEET

SITE OFFICE PARKING LOTS

MODEL: SMODELNAME5
FILE NAME: pw:\\projectwise.volkert.com:volkert-pw\Documents\Projects.1150903 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\S22007-Site Parking Details.dgn

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PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARKING LOT DETAILS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 2 OF 18 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	54
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		

PARKING LOT NO. 14

MODEL: $MODELNAME$
FILE NAME: pw:\\projectwise.volkert.com:volkert-ipw\Documents\Projects\115903 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\522007-Sht-Parking-Details.dgn

VOLKERT	USER NAME = default	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARKING LOT DETAILS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 3 OF 18 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	55
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			

N

FORBES LAKE

AGGREGATE WEDGE SHOULDER, TYPE B

SCARIFY EXISTING SURFACE
PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1½"
PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-9.5 FG, N50, 1¾"

10' SURFACE TRANSITION F
HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH

17 PARKING SPACES @ 10' EACH

16 PARKING SPACES @ 10' (EACH SIDE)

7 PARKING SPACES @ 10' EACH

30' SURFACE TRANSITION E

THERMOPLASTIC PAVEMENT MARKING - 4" SOLID YELLOW (TYP.)

THERMOPLASTIC PAVEMENT MARKING - 12" SOLID WHITE (TYP.)

HANDICAP PARKING SPACE - SEE DETAILS

THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (YELLOW)

6 PARKING SPACES @ 9.75' EACH

MARINA ROAD

MARINA RESTAURANT

NOTE: ALL PAVEMENT MARKING IS THERMOPLASTIC PAVEMENT MARKING - 4" SOLID WHITE UNLESS OTHERWISE NOTED.

MARINA RESTAURANT PARKING LOT

0 20 40 60
SCALE IN FEET

MODEL: $MODELNAME$
FILE NAME: pw:\\projectwise.volkert.com:volkert-idpw\Documents\Projects\115903 - PTB 200 - Item 43 - W0 3 - Stephen A Forbes State\CADD\CAD Sheets\522007-Sht-Parking-Details.dgn

VOLKERT

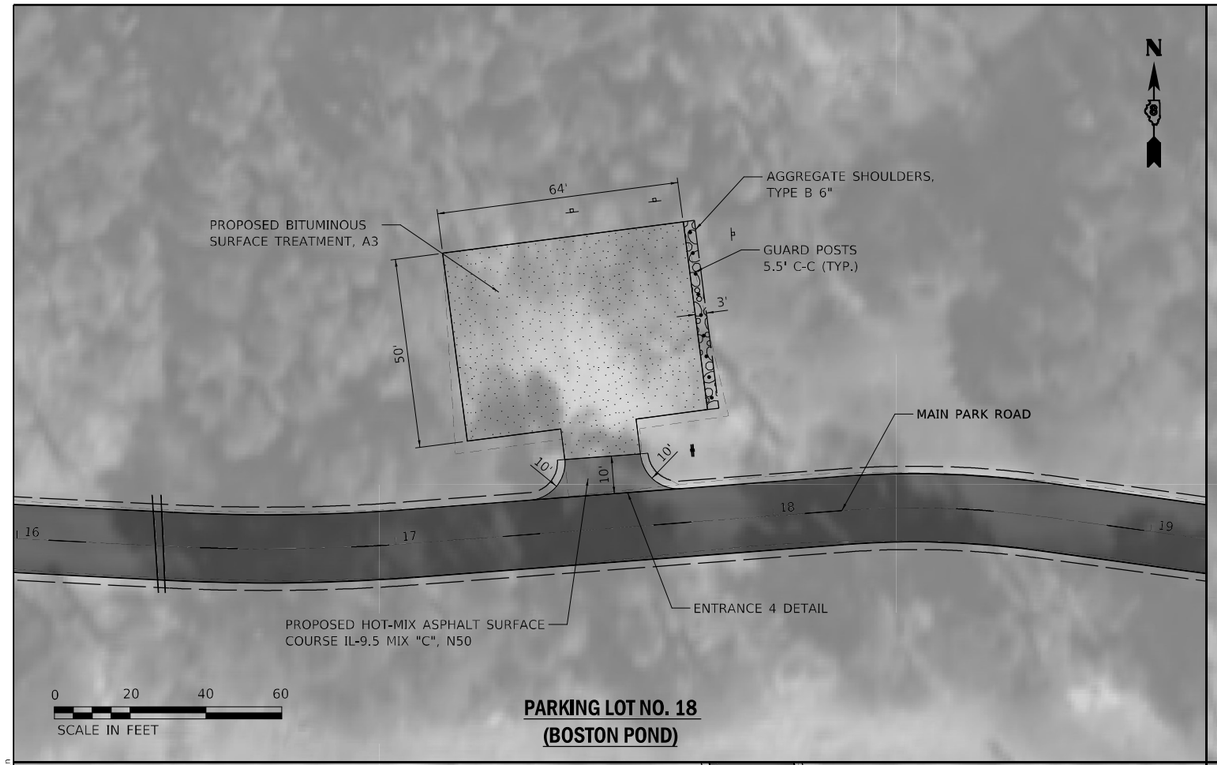
USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

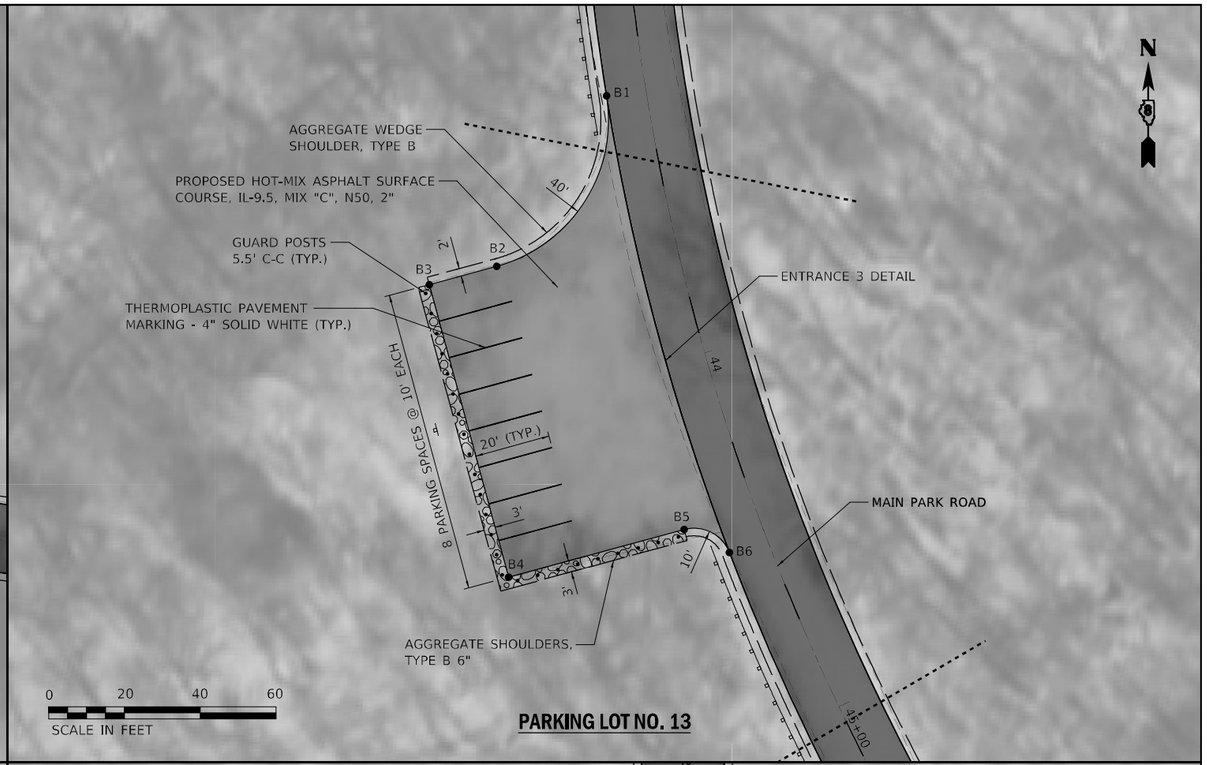
PARKING LOT DETAILS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 4 OF 18 SHEETS | STA. | TO STA.

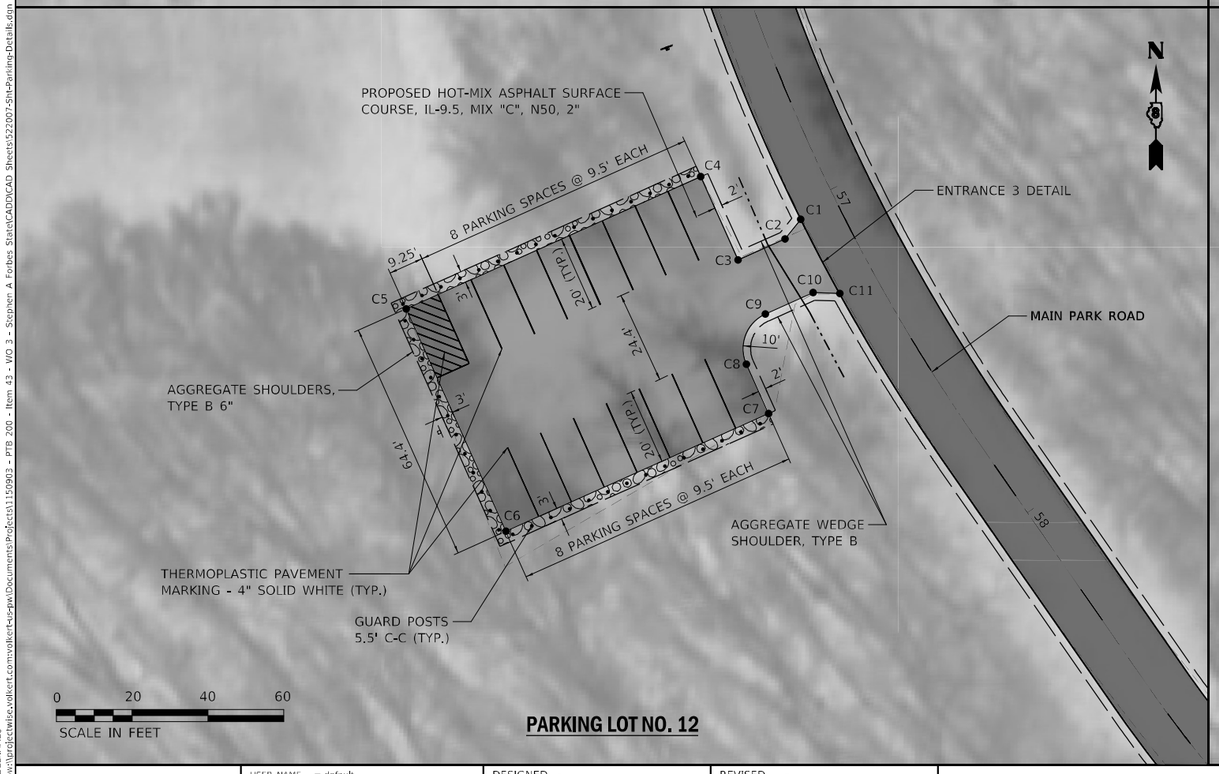
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	56
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			



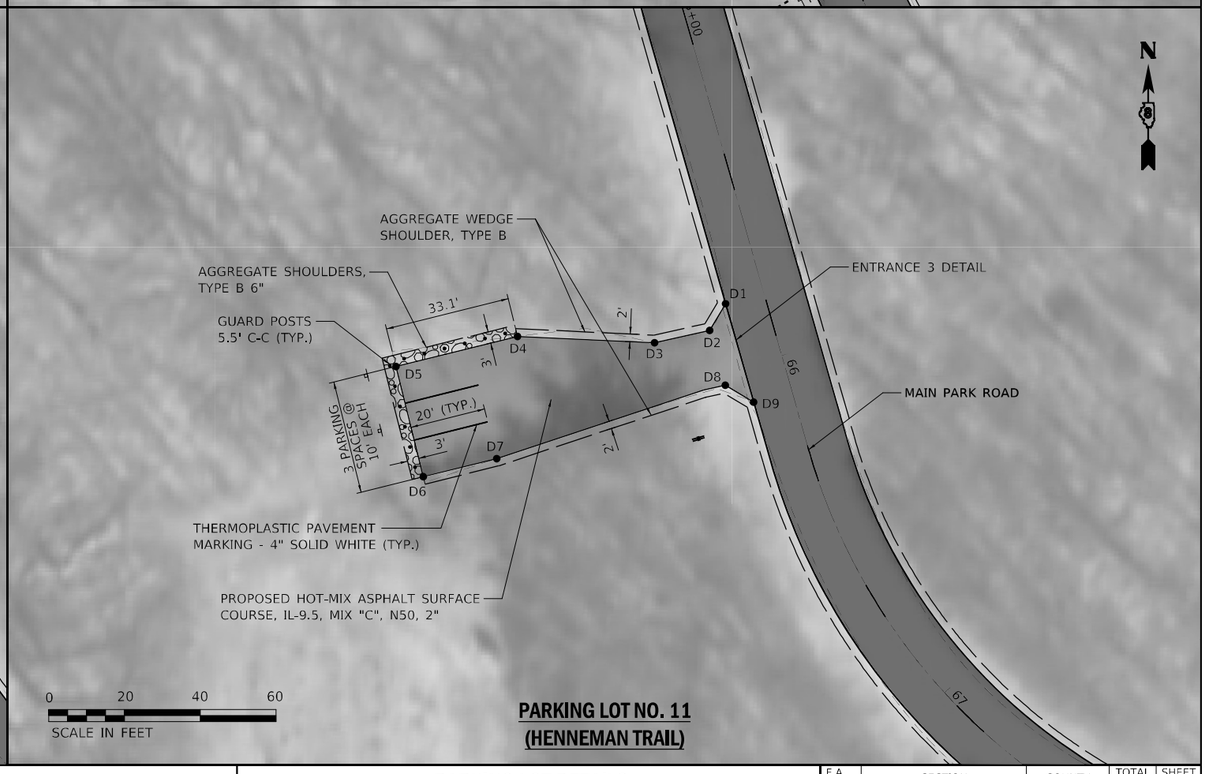
PARKING LOT NO. 18
(BOSTON POND)



PARKING LOT NO. 13



PARKING LOT NO. 12



PARKING LOT NO. 11
(HENNEMAN TRAIL)

MODEL: $MODELNAME$
FILE NAME: pw:\projectwise.volkert.com:volkert-cs-pw\Documents\Projects\1150903 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\52207-SH-Parking-Details.dgn

VOLKERT

USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARKING LOT DETAILS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 5 OF 18 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	57
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		

GUARD POSTS
5.5' C-C (TYP.)

AGGREGATE SHOULDERS,
TYPE B 6"

3'

E2

E1

5 PARKING SPACES
@ 9' EACH

3'

PROPOSED HOT-MIX ASPHALT SURFACE
COURSE, IL-9.5, MIX "C", N50, 2"

9'

CIRCLE DRIVE PICNIC
AREA PARKING LOT (1)

20' (TYP.)

THERMOPLASTIC PAVEMENT
MARKING - 4" SOLID WHITE (TYP.)

REMOVE AND REINSTALL
PARKING BLOCKS (TYP.)

5' SURFACE
TRANSITION H

E3

E4

HANDICAP PARKING
SPACE - SEE DETAILS

45°

20' (TYP.)

EXISTING CONCRETE PAD
TO REMAIN IN PLACE

E5

CIRCLE DRIVE

EXISTING PARKING BLOCK
TO REMAIN IN PLACE

8'

8'

4 PARKING SPACES
@ 9' EACH

2'

E6

80'

E7

AGGREGATE WEDGE
SHOULDER, TYPE B

7

8

9

5+00

11

12

10+00

F6

AGGREGATE SHOULDERS,
TYPE B 6"

F5

3 PARKING SPACES
@ 9.25' EACH

13.7'

3'

20' (TYP.)

F4

18.4'

3'

THERMOPLASTIC PAVEMENT
MARKING - 4" SOLID WHITE (TYP.)

PROPOSED HOT-MIX ASPHALT SURFACE
COURSE, IL-9.5, MIX "C", N50, 2"

CIRCLE DRIVE PICNIC
AREA PARKING LOT (2)

5' SURFACE
TRANSITION H

F1

2'

F2

20' (TYP.)

2'

F3

AGGREGATE WEDGE
SHOULDER, TYPE B

5 PARKING SPACES
@ 9.25' EACH

GUARD POSTS
5.5' C-C (TYP.)

REMOVE AND REINSTALL
PARKING BLOCKS (TYP.)

N

0 20 40 60
SCALE IN FEET

CIRCLE DRIVE PICNIC AREA PARKING LOTS

MODEL: $MODELNAME$
FILE NAME: pw:\\projectwise.volkert.com:volkert-sps-pw\Documents\Projects\115903 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\522007-SHT-Parking-Details.dgn

VOLKERT

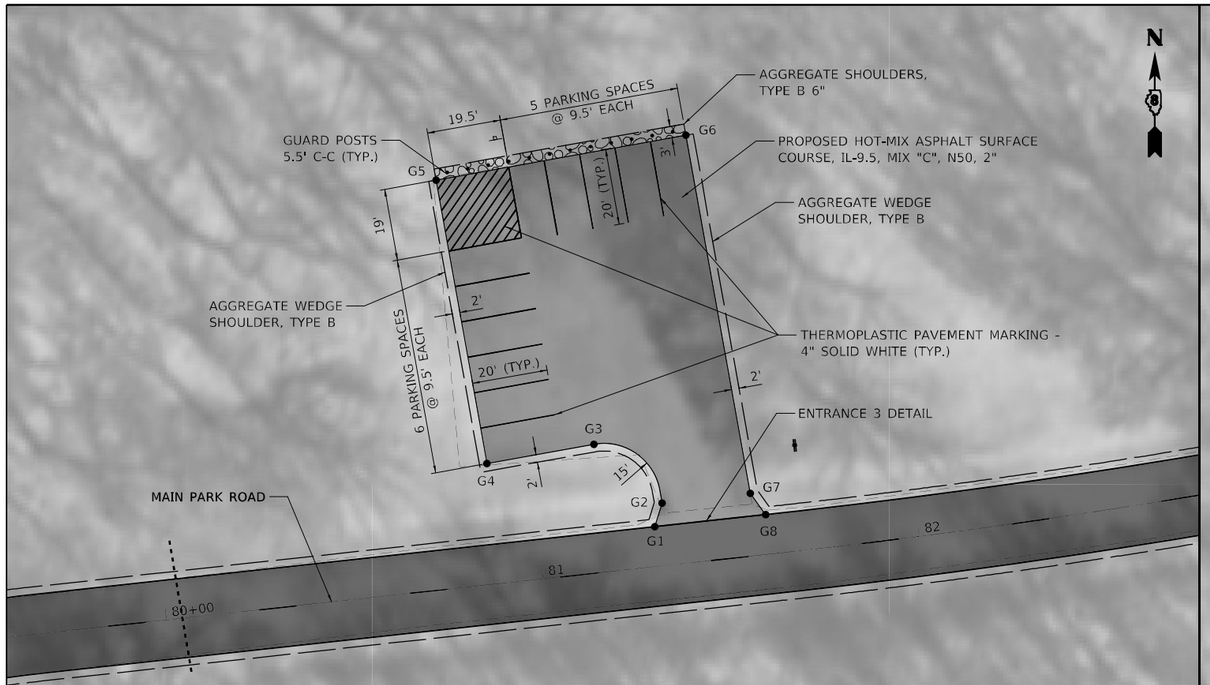
USER NAME = default	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/24/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

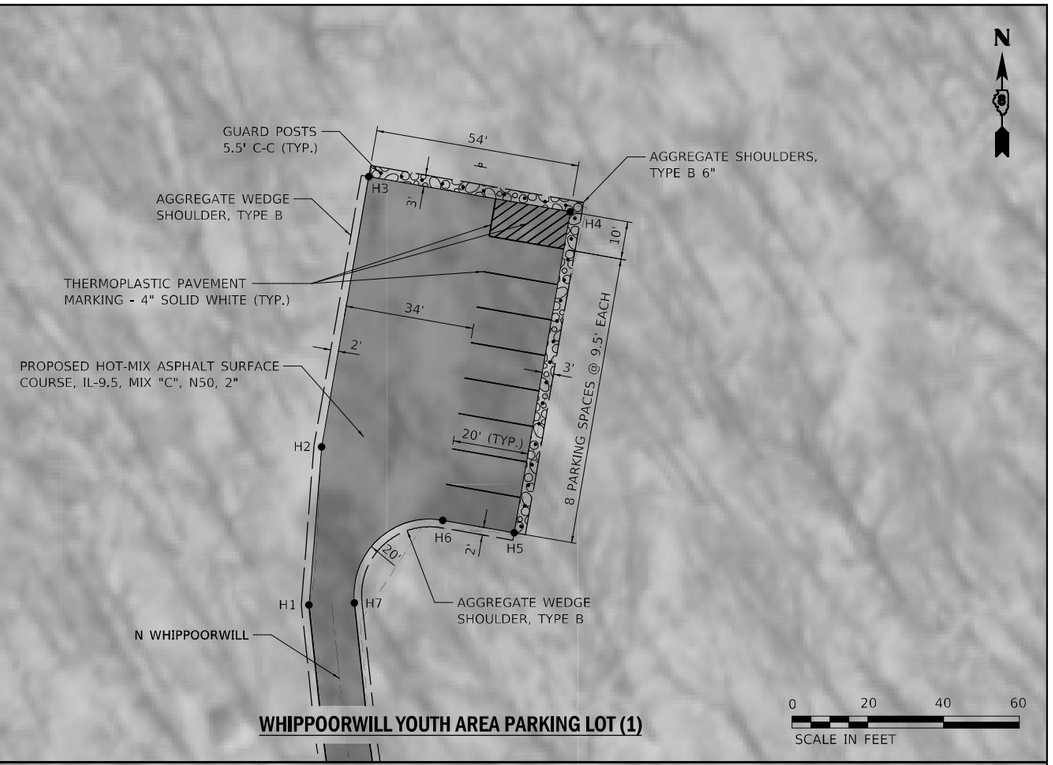
PARKING LOT DETAILS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 6 OF 18 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	58
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			

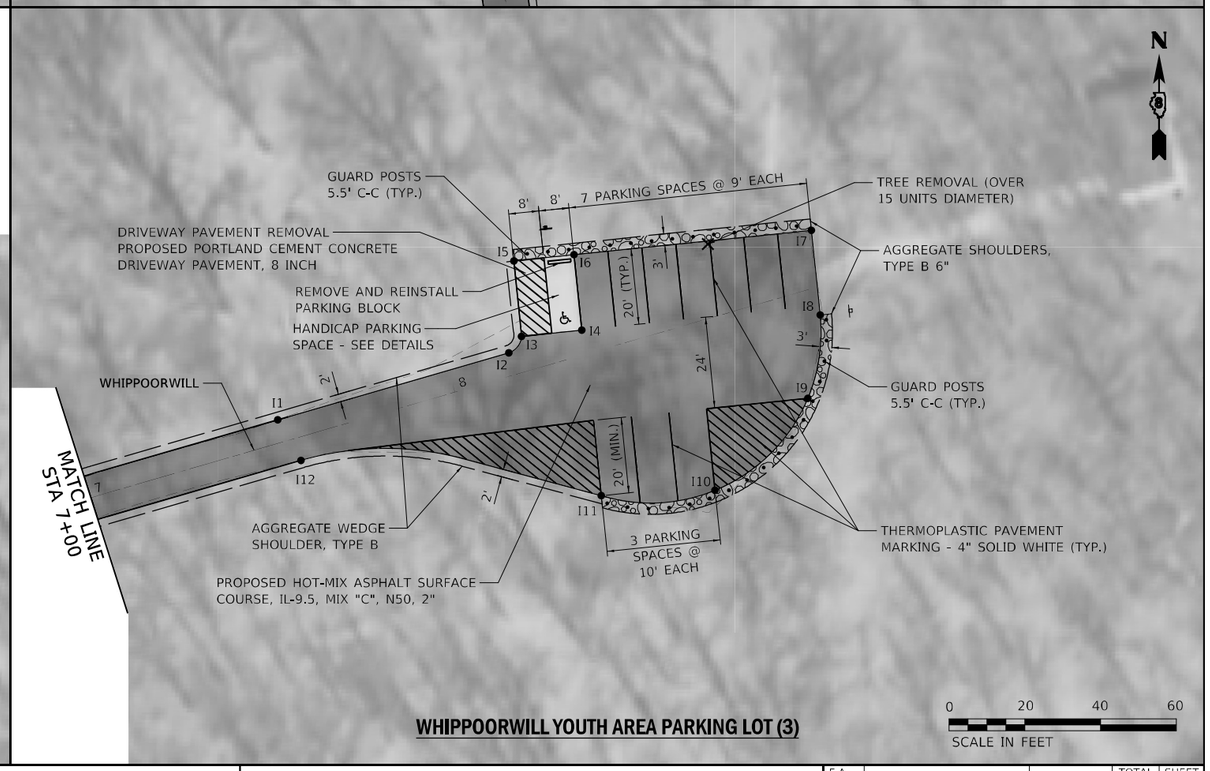


PERSIMMON PICNIC AREA PARKING LOT



WHIPPOORWILL YOUTH AREA PARKING LOT (1)

WHIPPOORWILL YOUTH AREA PARKING LOT (2)



WHIPPOORWILL YOUTH AREA PARKING LOT (3)

MODEL: $MODELNAME$
FILE NAME: pw:\projectwise.volkert.com:volkert-cs-pw\Documents\Projects\1150903 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\52207-SH-Parking-Details.dgn

VOLKERT

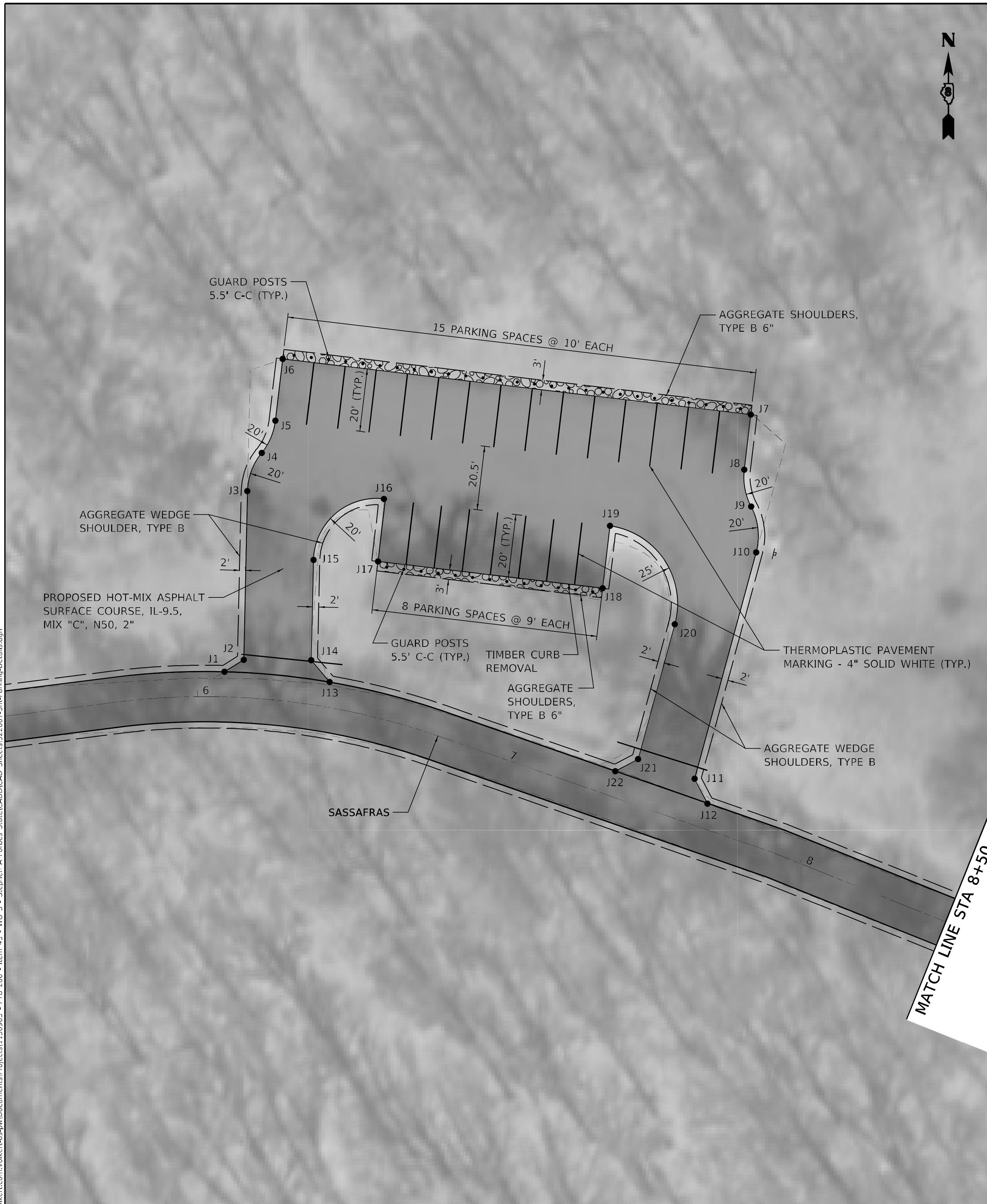
USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

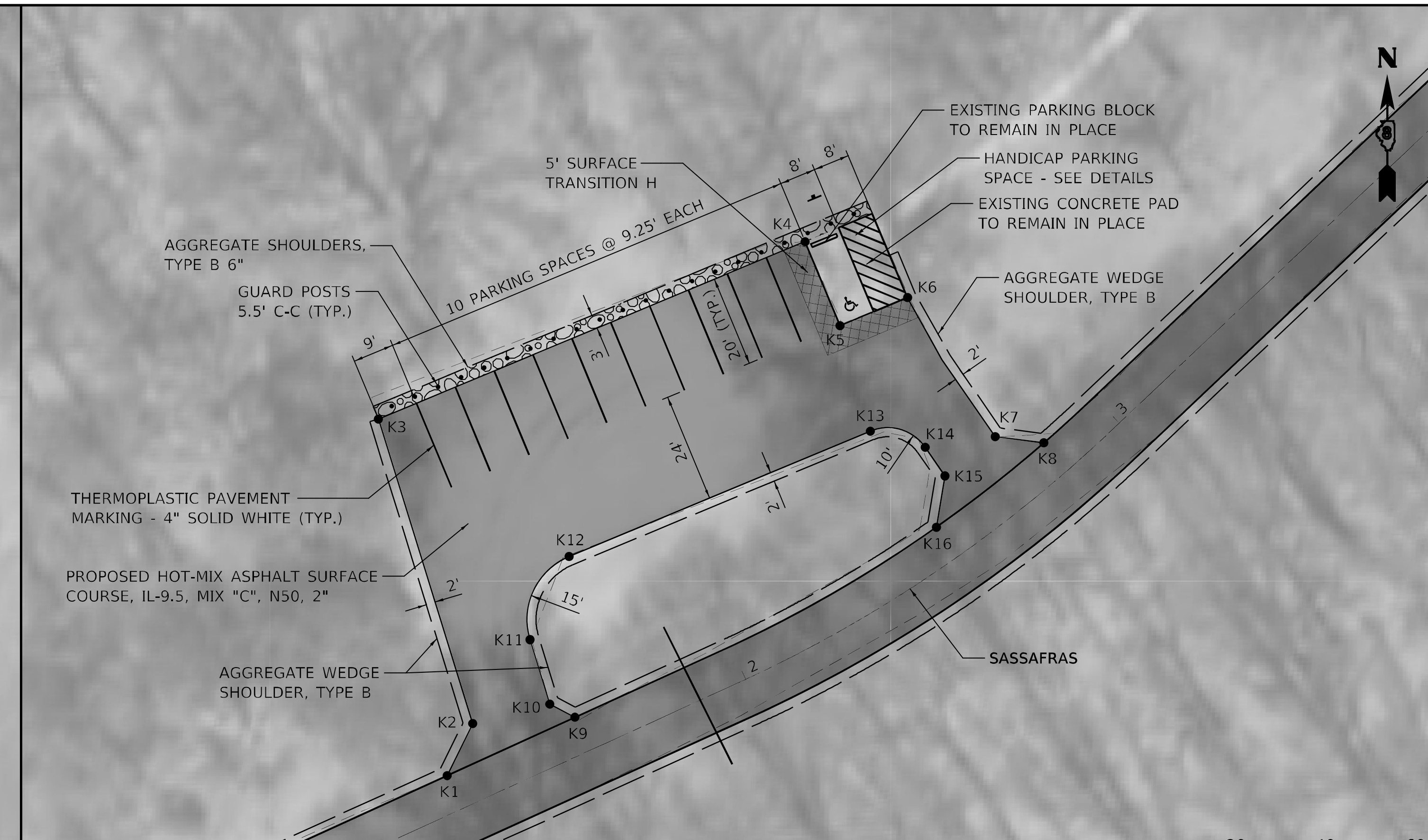
PARKING LOT DETAILS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 7 OF 18 SHEETS | STA. | TO STA.

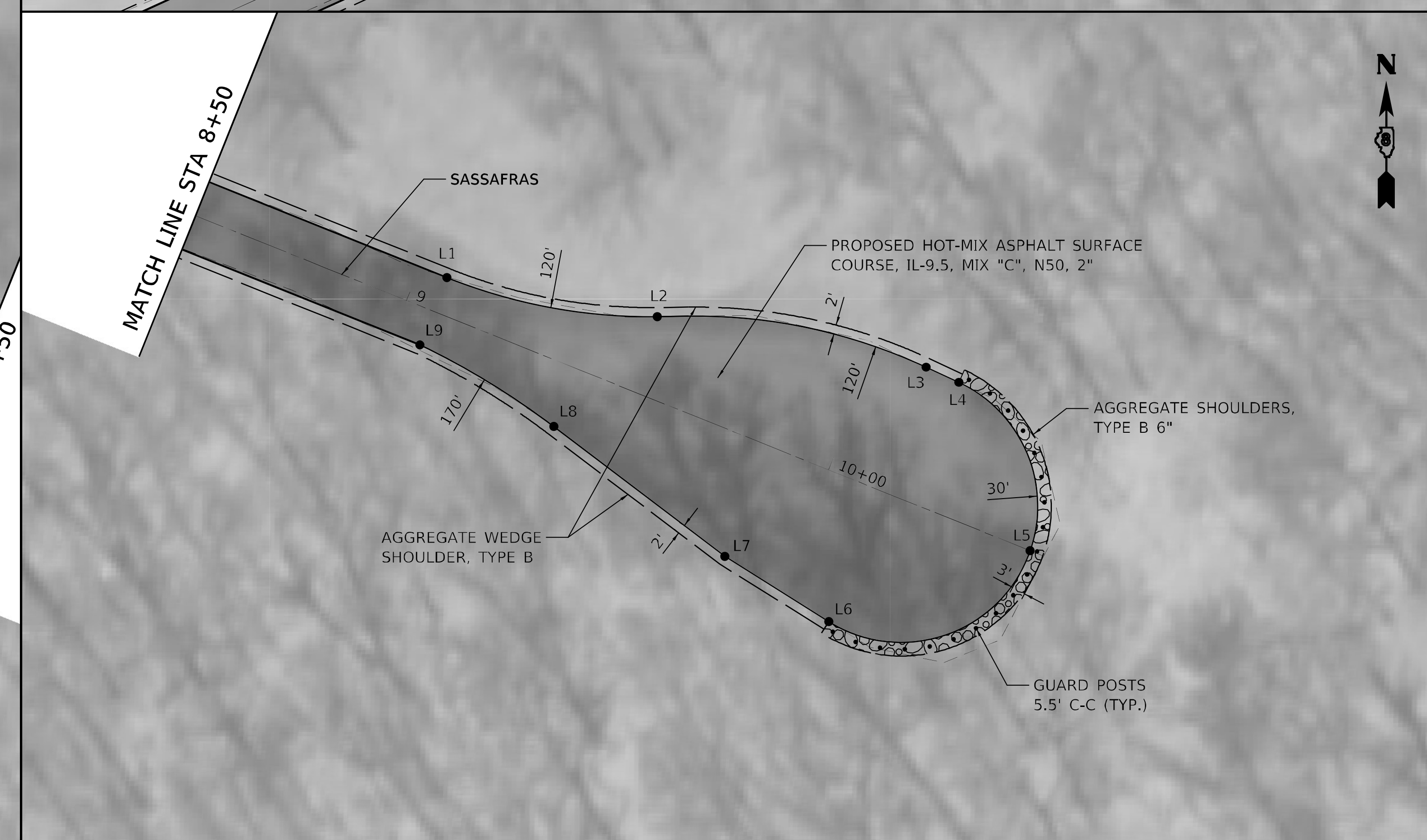
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	59
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		



SASSAFRAS PICNIC AREA PARKING LOT (2)



SASSAFRAS PICNIC AREA PARKING LOT (1)



SASSAFRAS PICNIC AREA PARKING LOT (3)

MODEL: $MODELNAME
FILE NAME: pw:\\projectwise.volkert.com:volkert-us-pw\Documents\Projects\1150903 - PTB 200 - Item 43 - V/O 3 - Stephen A Forbes State\CADD\CAD Sheets\522007-SHT-Parking-Details.dgn

VOLKERT

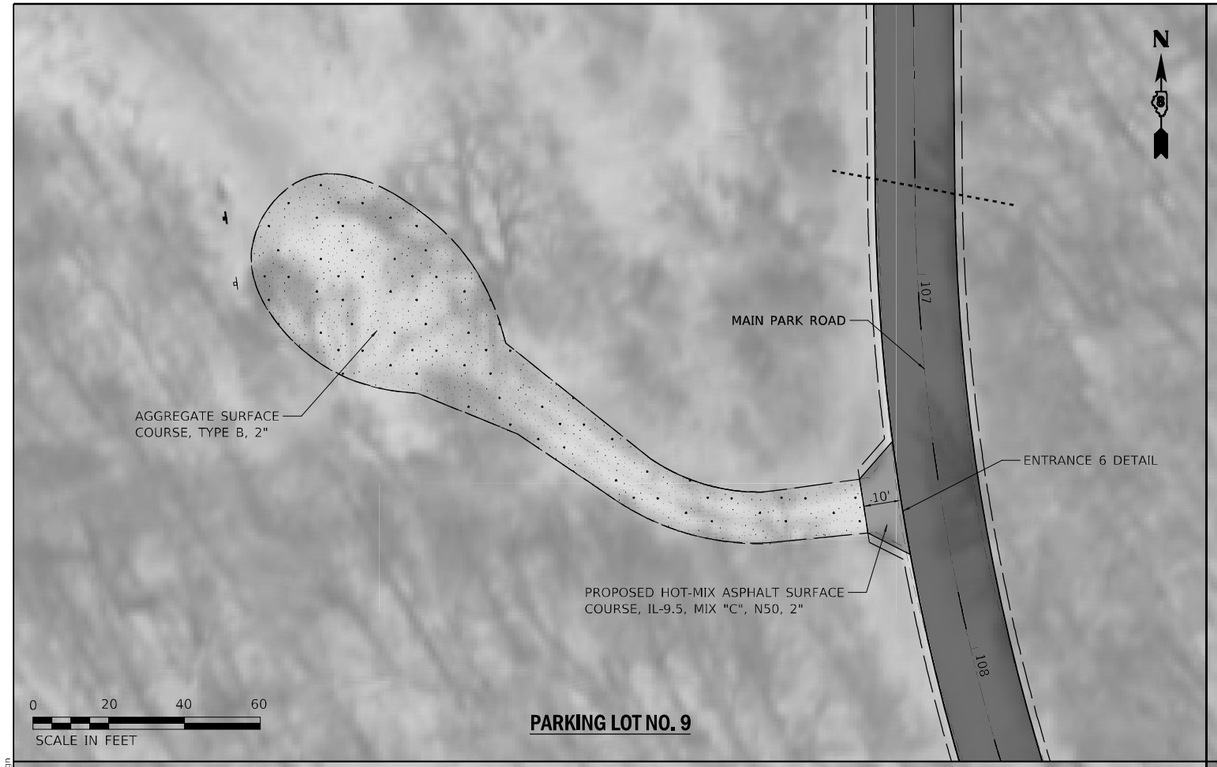
USER NAME	= default	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	CHECKED	-	REVISED	-
PLOT DATE	= 10/24/2023	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

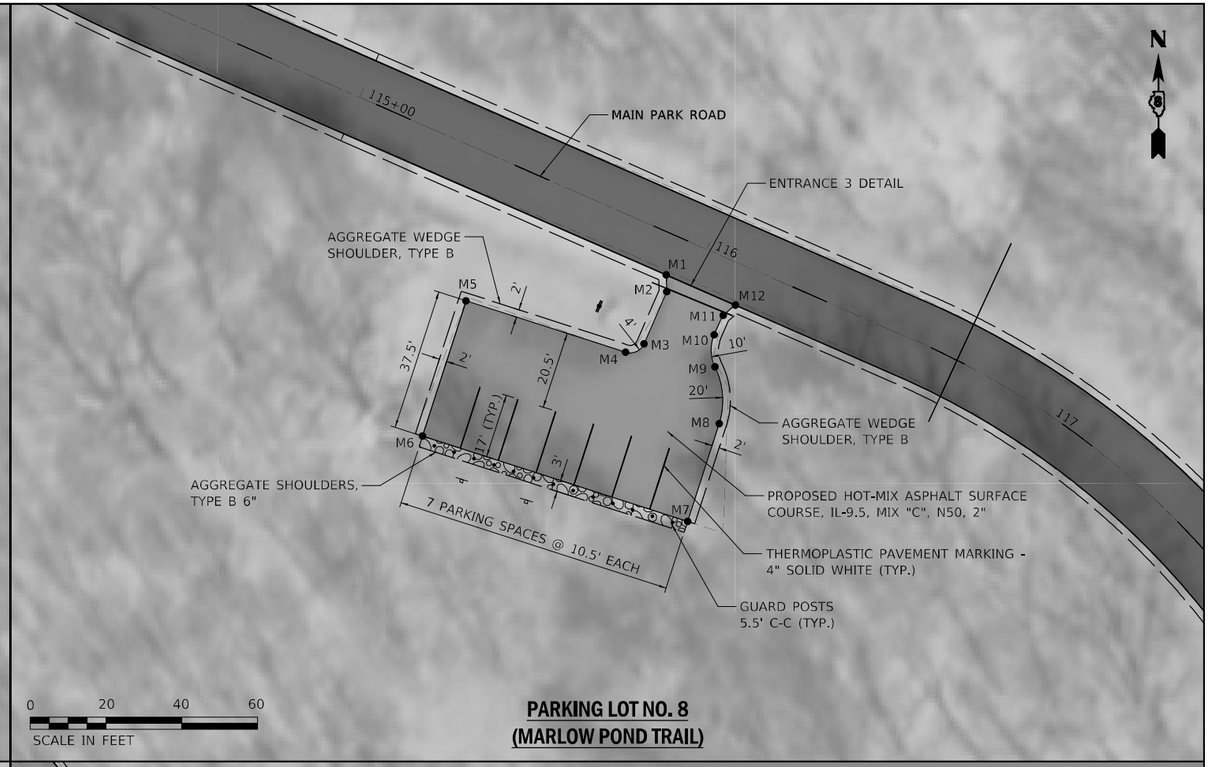
PARKING LOT DETAILS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 8 OF 18 SHEETS | STA. | TO STA.

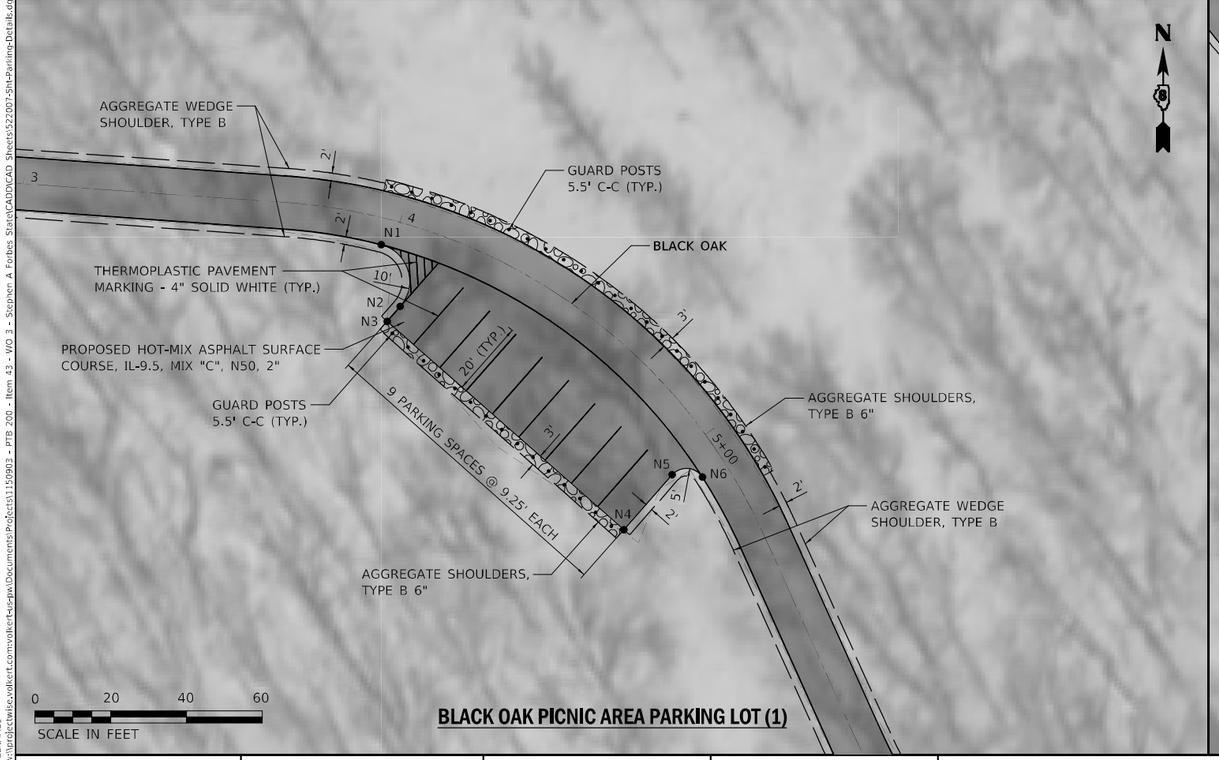
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	60
		CONTRACT NO. 46933		
		ILLINOIS	FED. AID PROJECT	



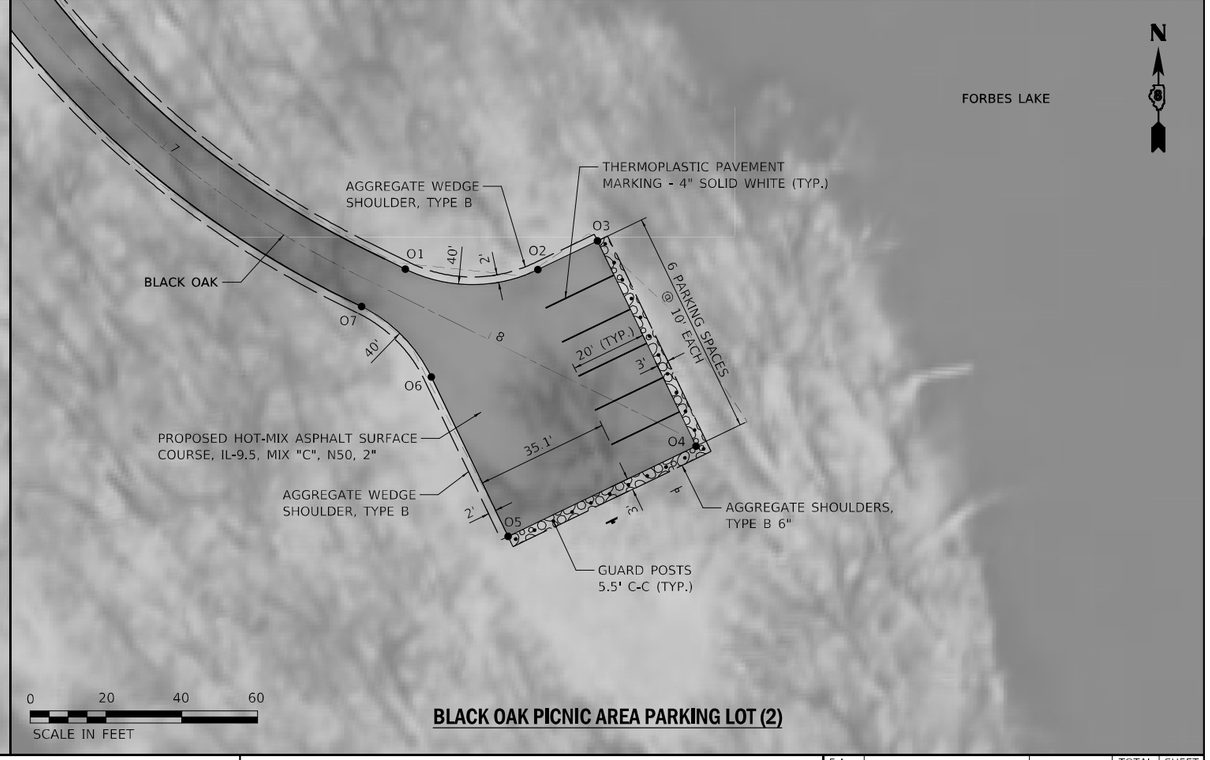
PARKING LOT NO. 9



PARKING LOT NO. 8 (MARLOW POND TRAIL)



BLACK OAK PICNIC AREA PARKING LOT (1)



BLACK OAK PICNIC AREA PARKING LOT (2)

MODEL: $MODELNAMES
FILE NAME: pw:\\projectwise.volkert.com:volkert-pw\Documents\Projects\1150903 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\522007-Sht-Parking-Details.dgn

VOLKERT

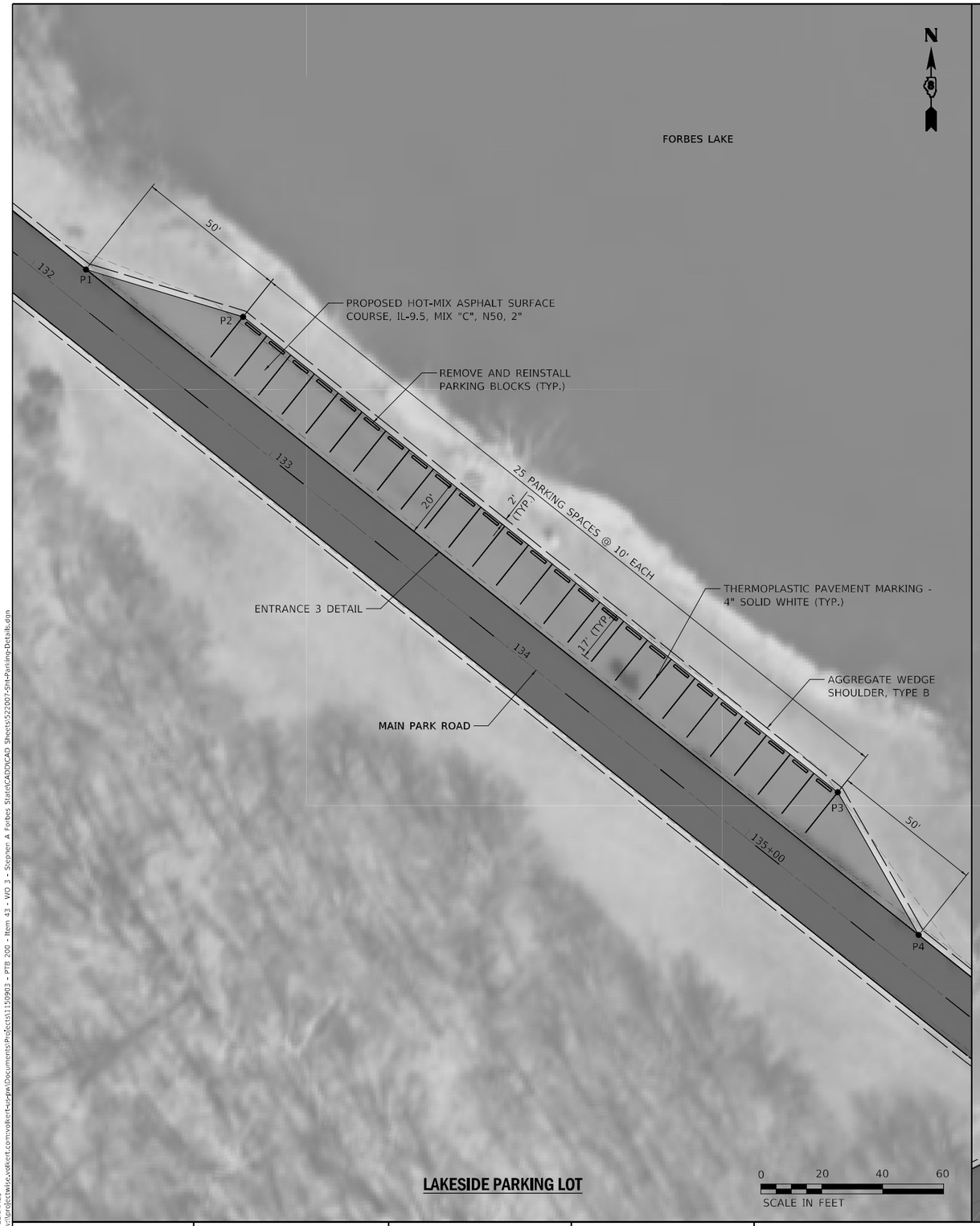
USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

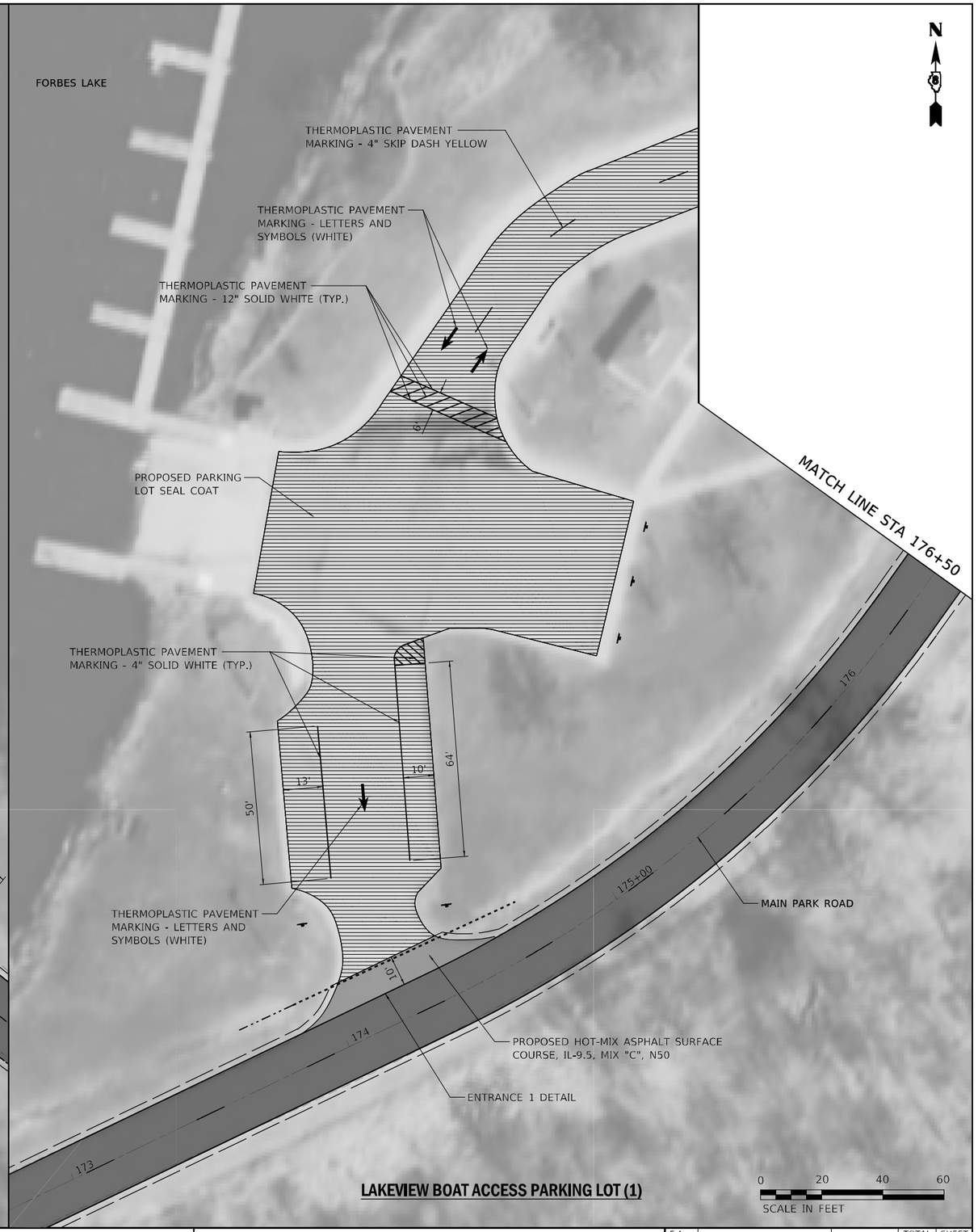
PARKING LOT DETAILS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 9 OF 18 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	61
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		



LAKESIDE PARKING LOT



LAKEVIEW BOAT ACCESS PARKING LOT (1)

MODEL: $MODELNAMES
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VOLKERT

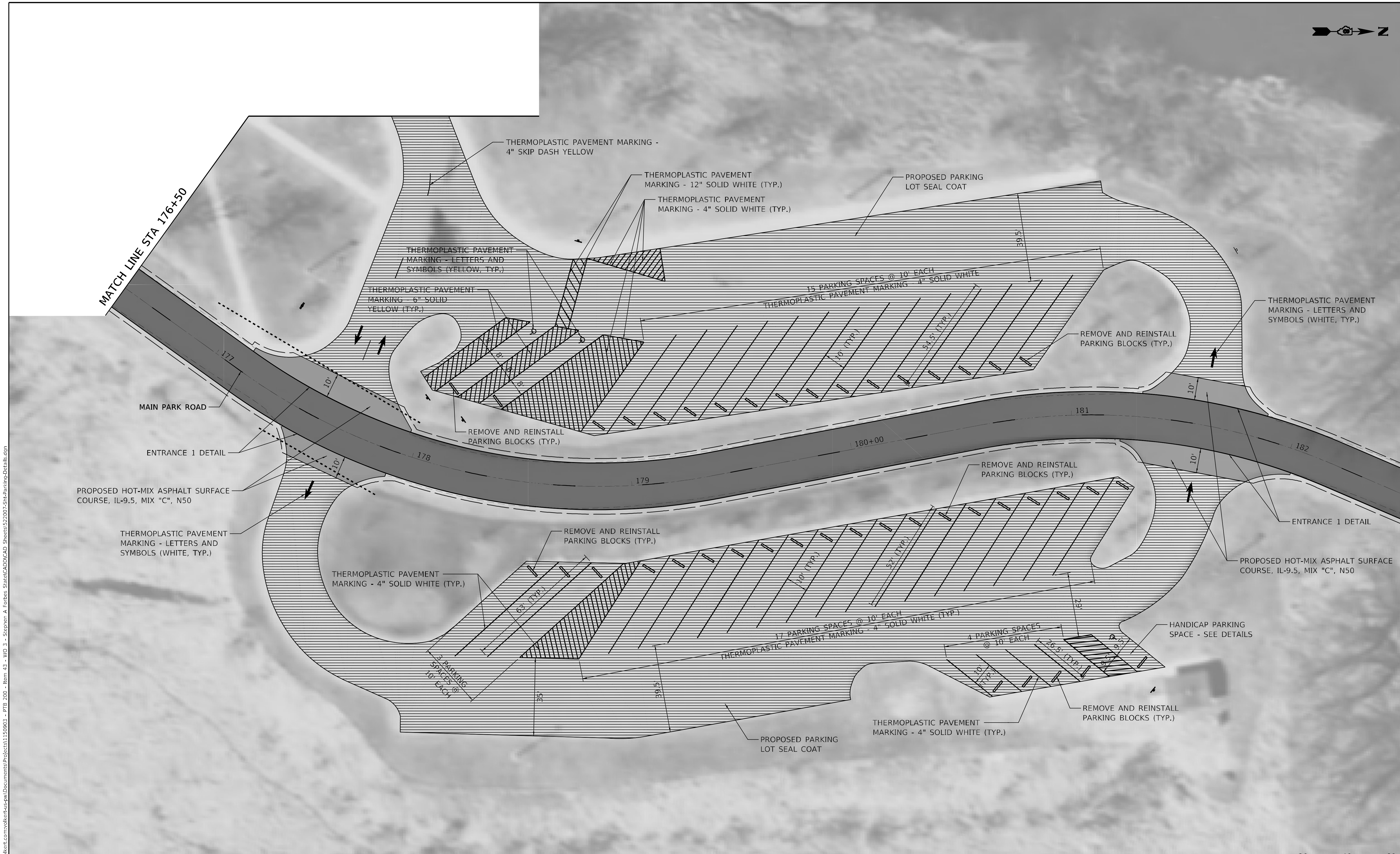
USER NAME = default	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/24/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARKING LOT DETAILS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 10 OF 18 SHEETS | STA. | TO STA.

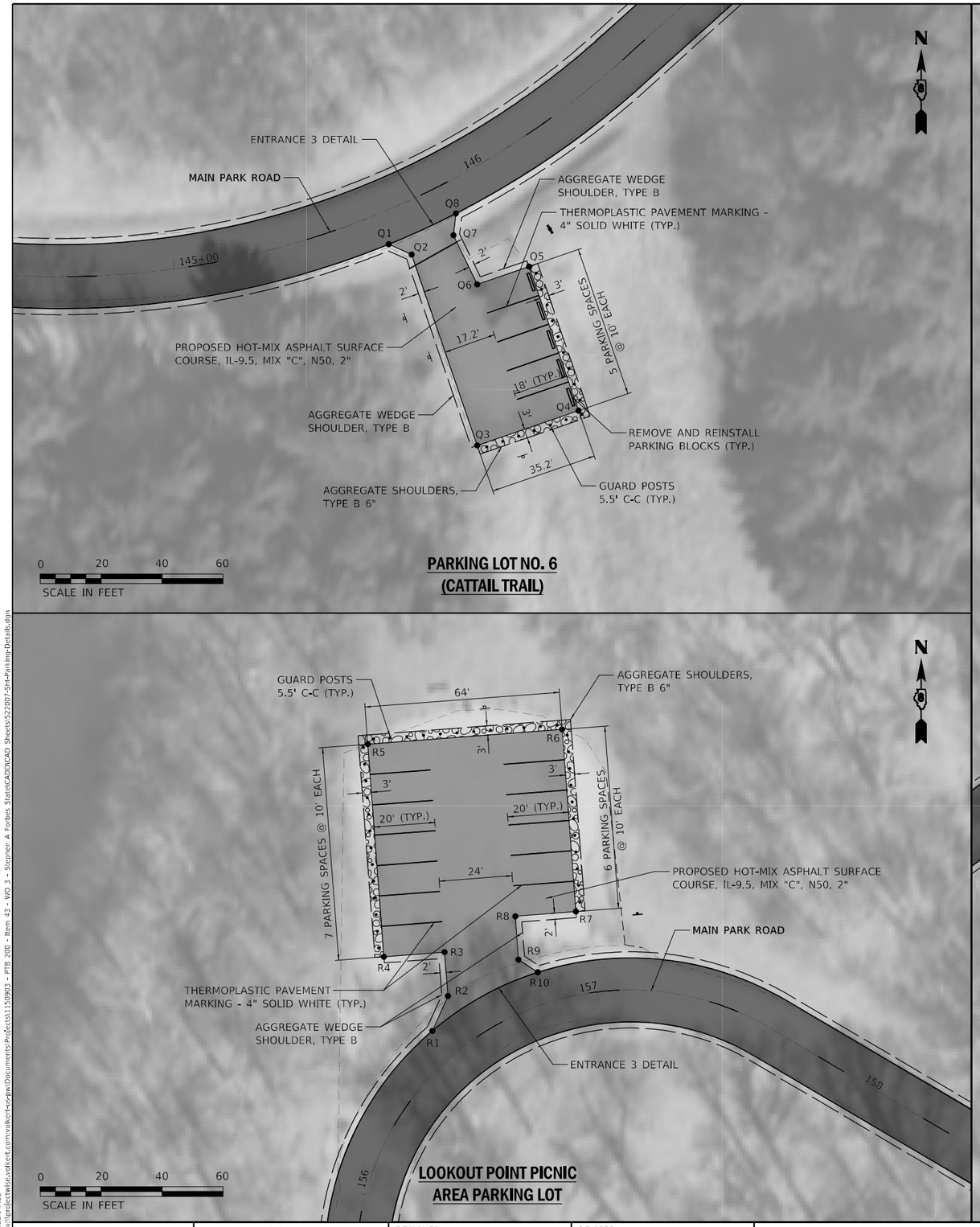
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	62
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		



LAKEVIEW BOAT ACCESS PARKING LOT (2)

VOLKERT	USER NAME = default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PARKING LOT DETAILS STEPHEN A. FORBES STATE RECREATION AREA
		DRAWN -	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 10/24/2023	DATE -	REVISED -		SCALE: 1"=20' SHEET 11 OF 18 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	63
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			



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VOLKERT

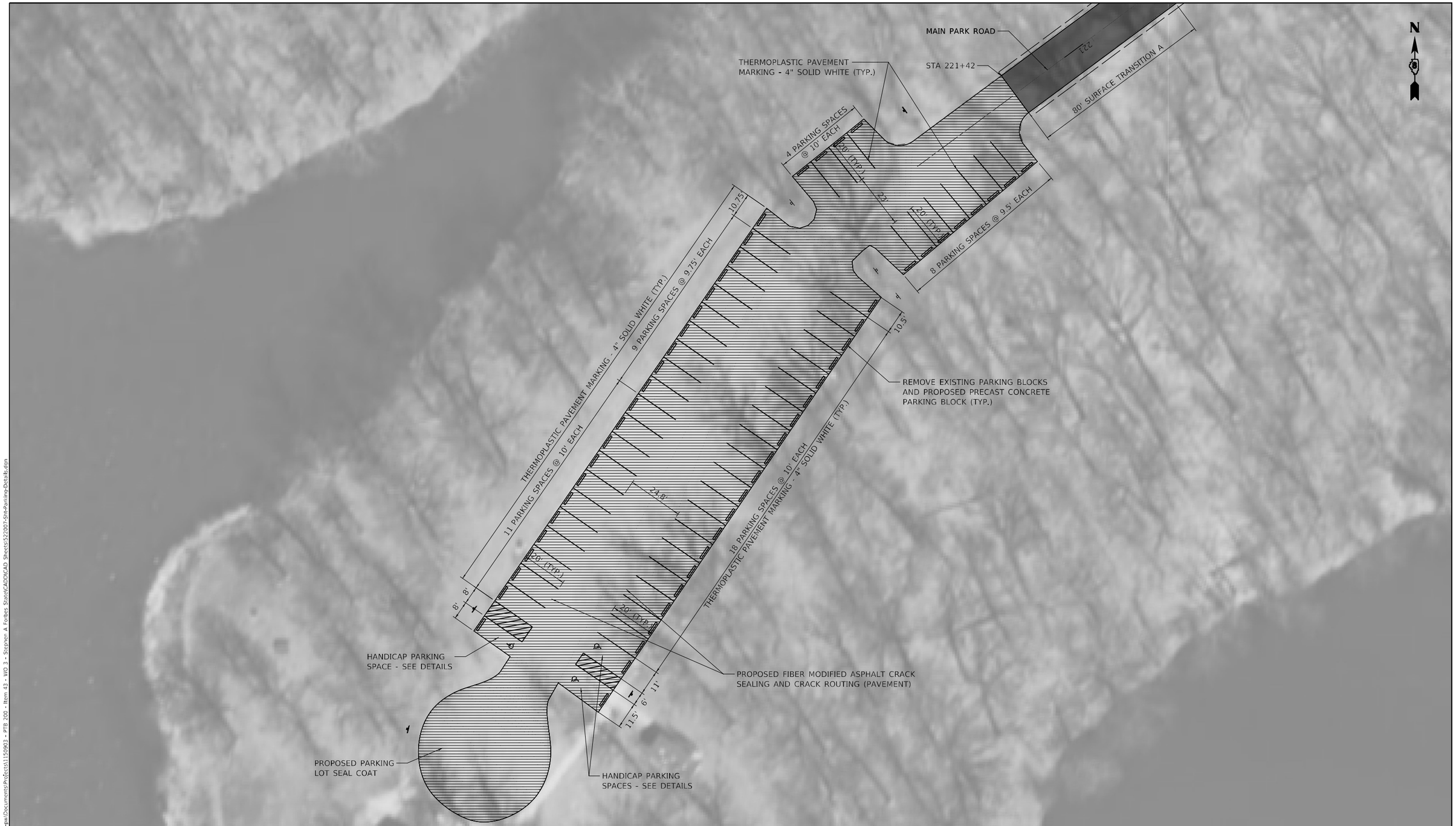
USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARKING LOT DETAILS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 12 OF 18 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	64
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			



ROCKY POINT BEACH PARKING LOT

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VOLKERT

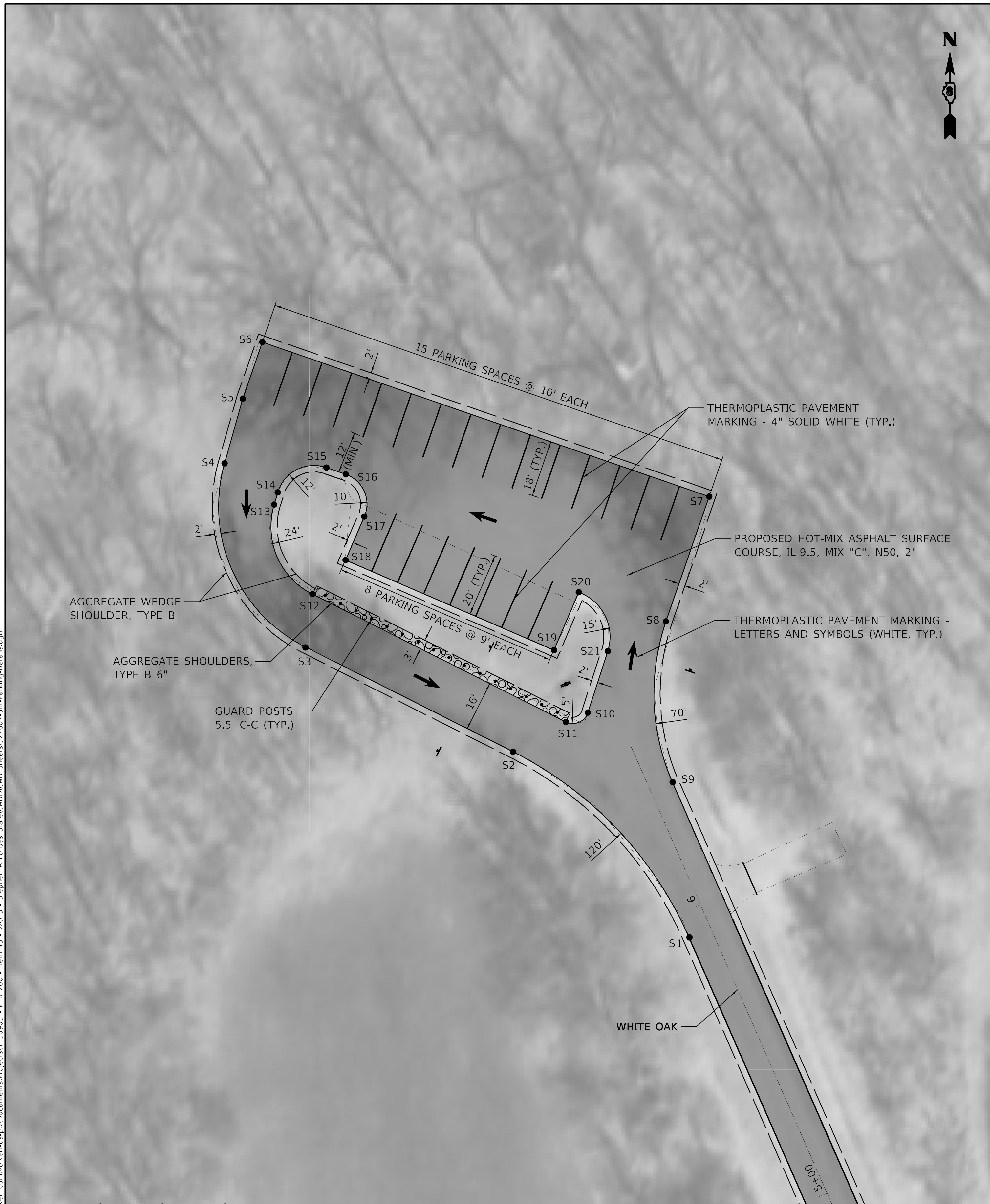
USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

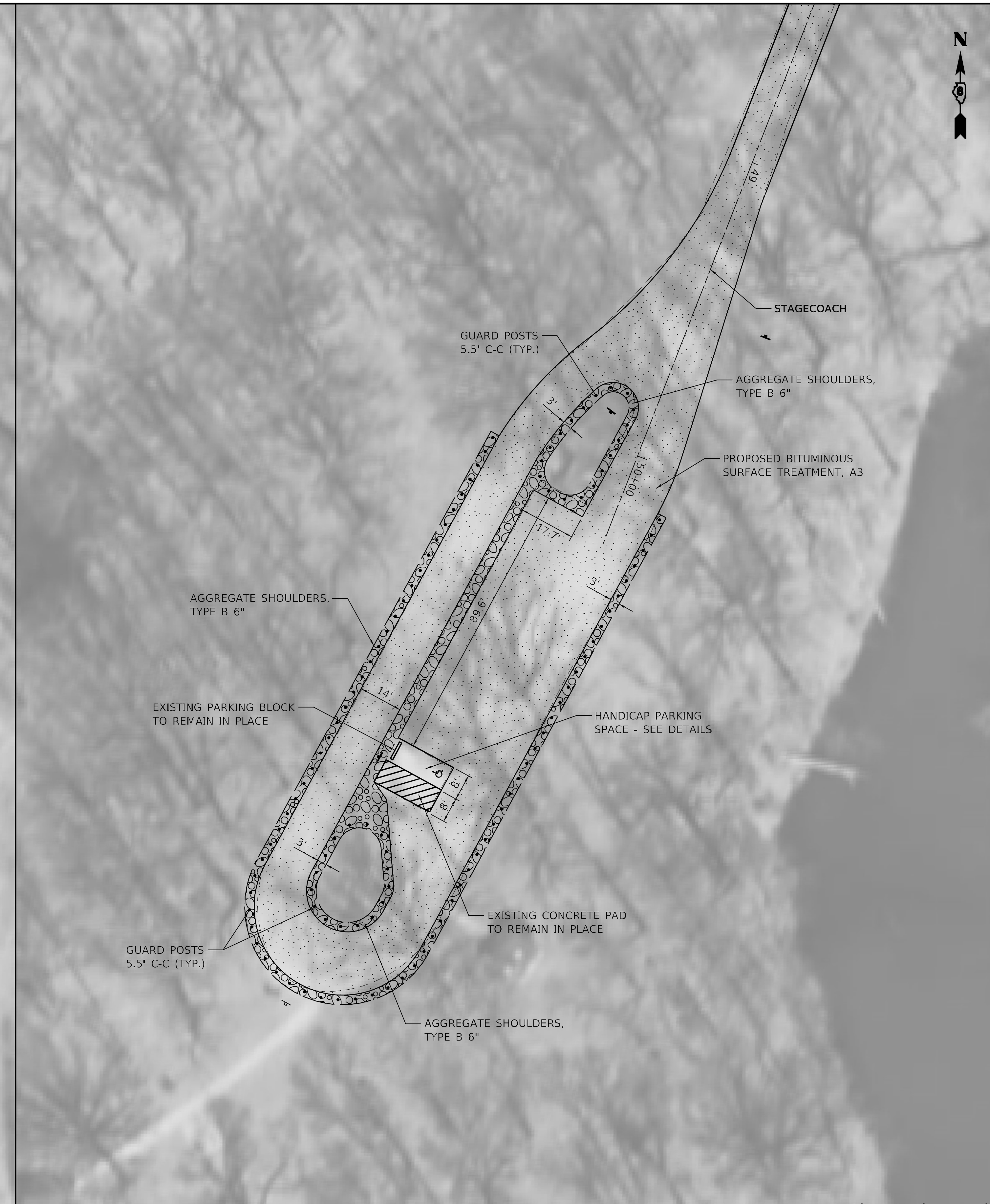
PARKING LOT DETAILS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 13 OF 18 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	65
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			



WHITE OAK PICNIC AREA PARKING LOT



STAGECOACH PICNIC AREA PARKING LOT

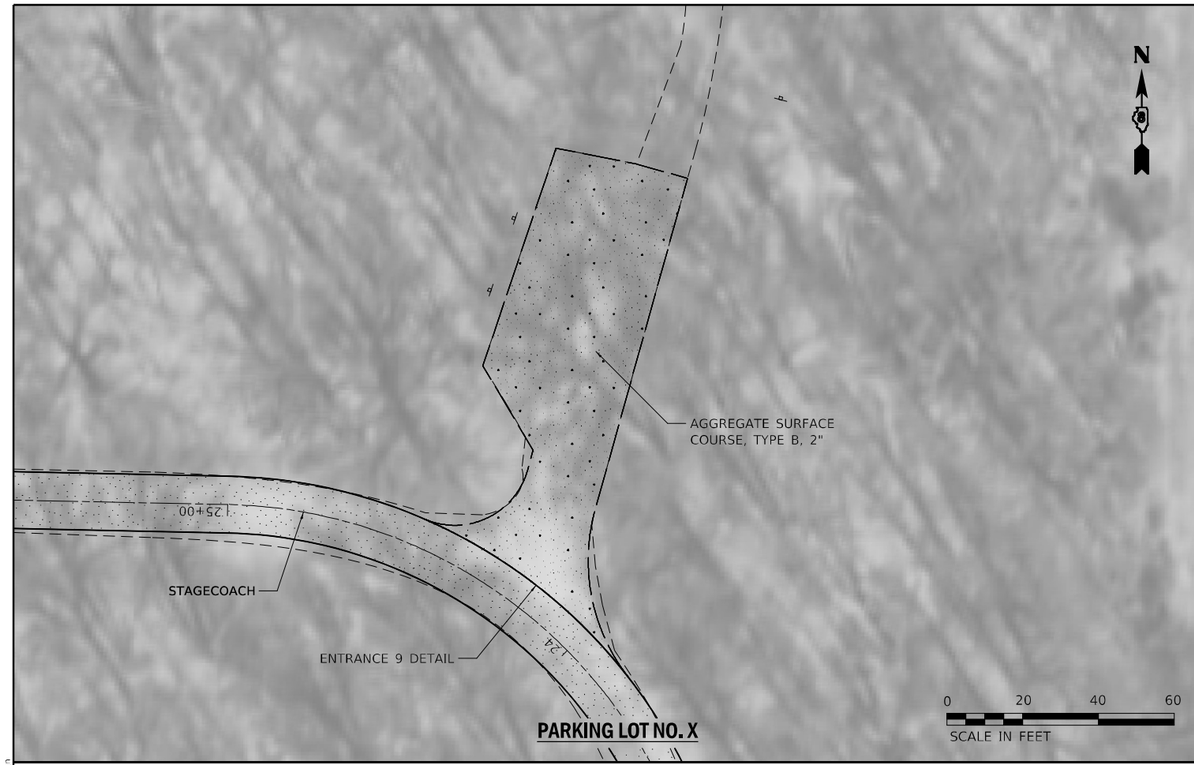
VOLKERT	USER NAME = default	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

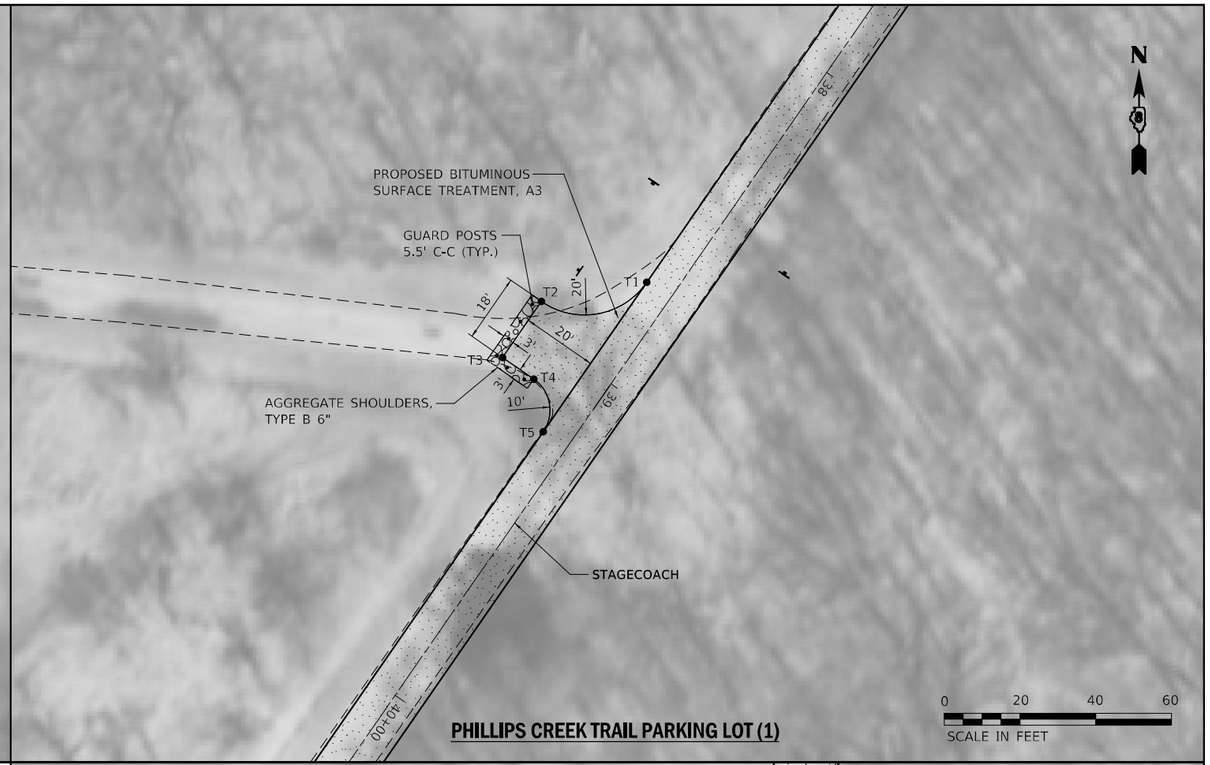
PARKING LOT DETAILS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 14 OF 18 SHEETS | STA. | TO STA.

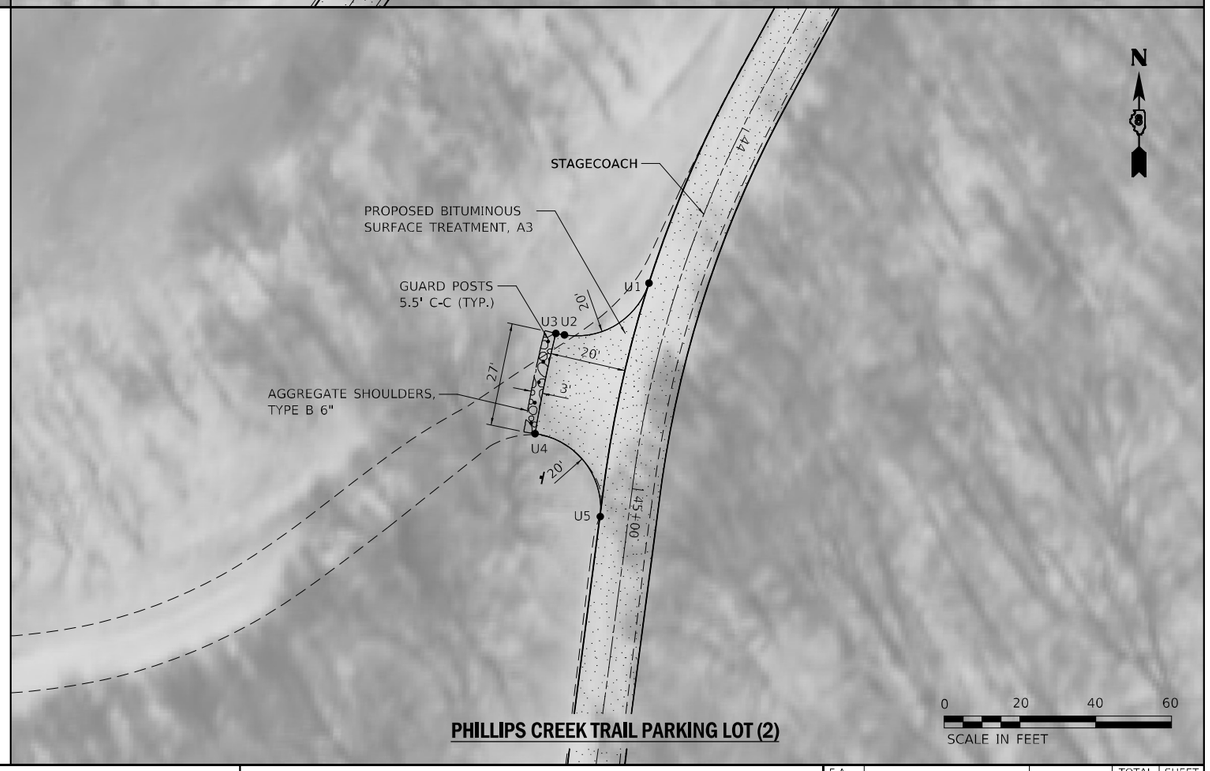
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	66
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		



PARKING LOT NO. X



PHILLIPS CREEK TRAIL PARKING LOT (1)



PHILLIPS CREEK TRAIL PARKING LOT (2)

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VOLKERT

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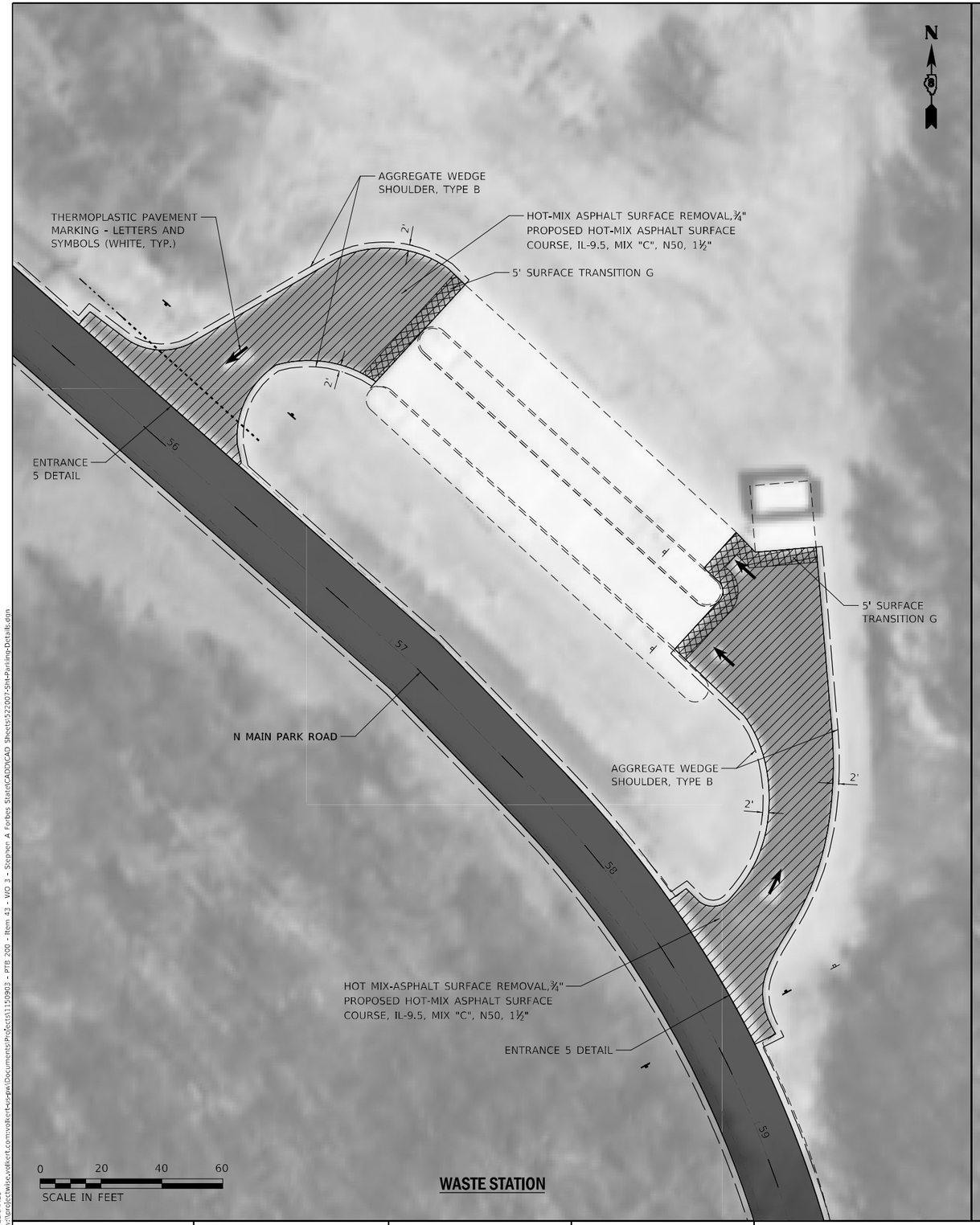
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARKING LOT DETAILS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 15 OF 18 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	67
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		



WASTE STATION

OLD WASTE STATION

MODEL: $MODELNAME$
FILE NAME: p:\projectwise.volkert.com\volkert-us-pw\Documents\Projects\11150903 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\52007-SHT-Parking-Details.dgn

VOLKERT

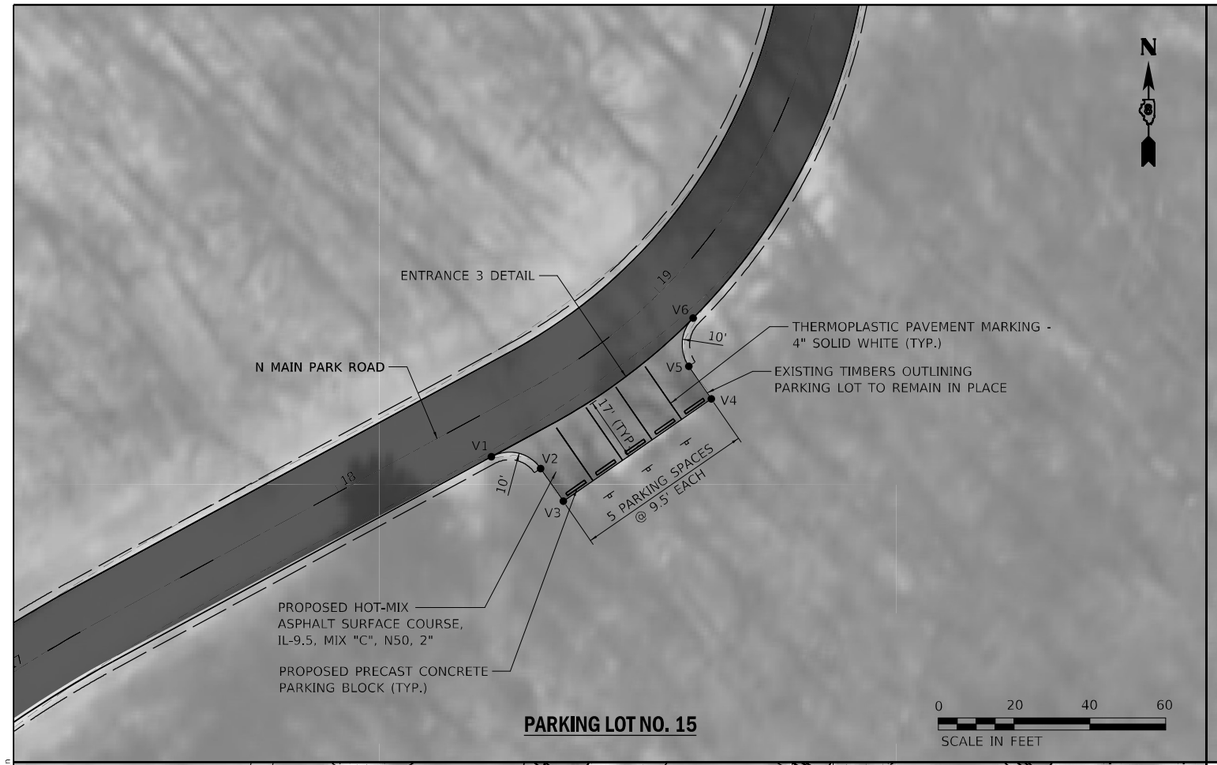
USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARKING LOT DETAILS
STEPHEN A. FORBES STATE RECREATION AREA

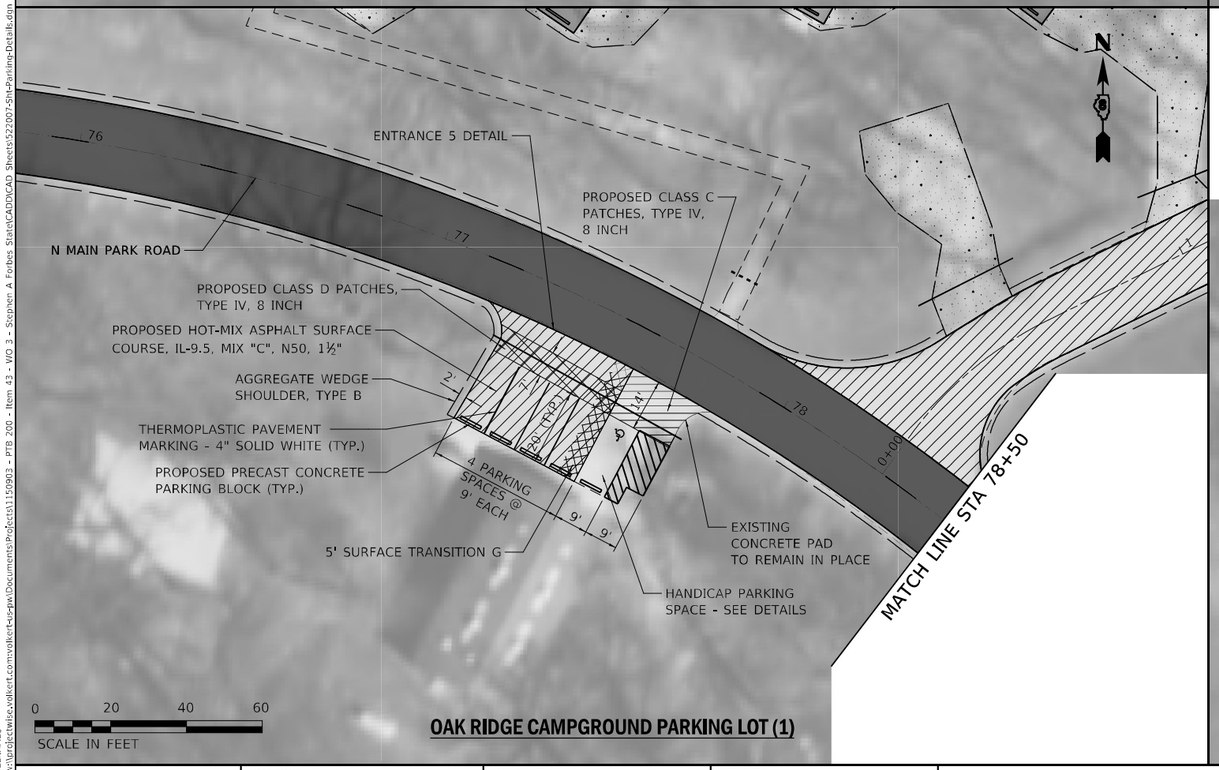
SCALE: 1"=20' | SHEET 16 OF 18 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	68
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		

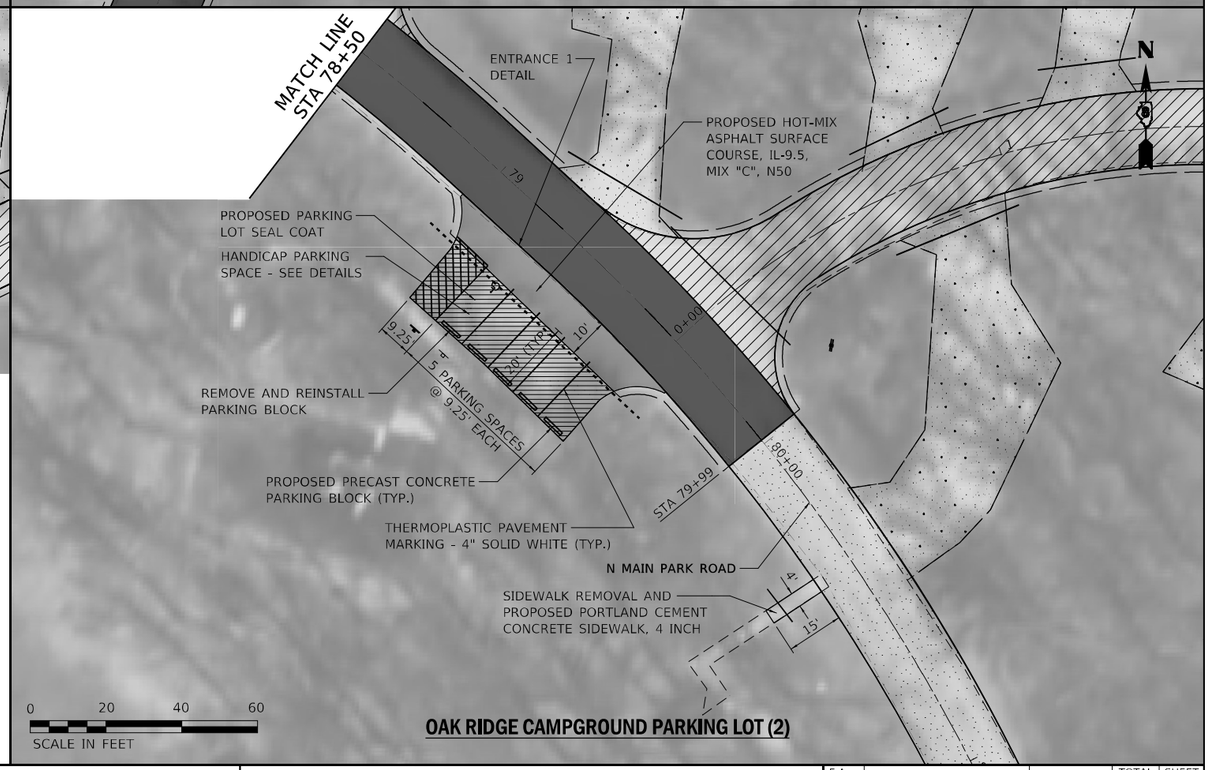


PARKING LOT NO. 15

FISH CLEANING STATION PARKING LOT



OAK RIDGE CAMPGROUND PARKING LOT (1)



OAK RIDGE CAMPGROUND PARKING LOT (2)

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VOLKERT

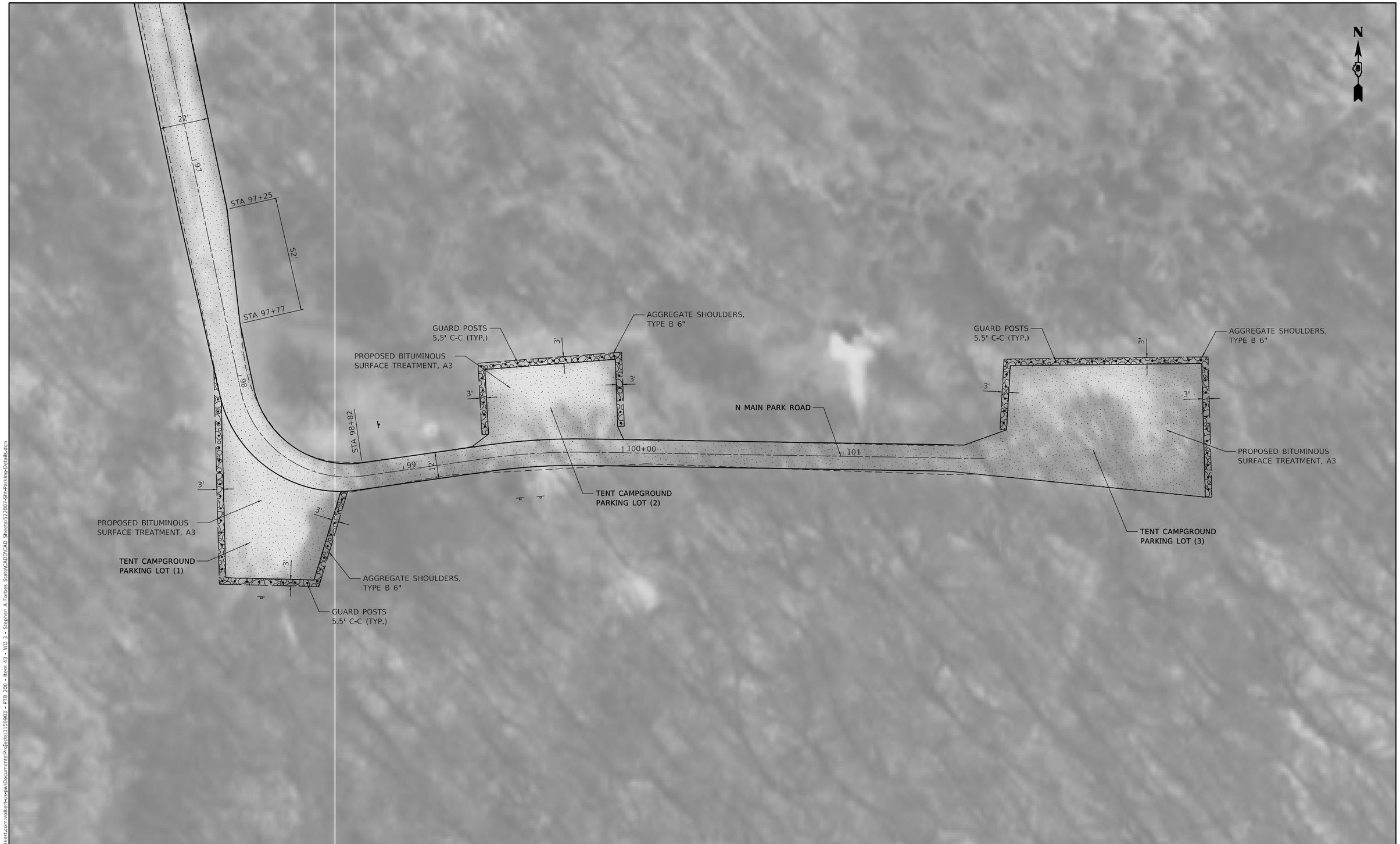
USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARKING LOT DETAILS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 17 OF 18 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	69
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		



TENT CAMPGROUND PARKING LOTS

MODEL: $MODELNAME$
FILE NAME: pw:\\projectwise.volkert.com:volkert-ips-pw\Documents\Projects\115903 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\522007-SH-Parking-Details.dgn

VOLKERT

USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARKING LOT DETAILS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 18 OF 18 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	70
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			

SITE OFFICE PARKING LOT B		
POINT NUMBER	NORTHING	EASTING
A1	750,288.82	856,958.31
A2	750,296.27	856,977.31
A3	750,292.33	857,061.26
A4	750,257.94	857,089.53
A5	750,247.26	857,087.94
A6	750,243.06	857,082.25
A7	750,246.45	857,059.50
A8	750,147.54	857,044.76
A9	750,141.05	857,088.27
A10	750,258.17	857,105.74
A11	750,304.02	857,068.05
A12	750,308.18	856,979.51
A13	750,326.32	856,965.55

WHIPPOORWILL YOUTH AREA PARKING LOT (1)		
POINT NUMBER	NORTHING	EASTING
H1	748,072.44	861,347.25
H2	748,114.14	861,350.60
H3	748,185.49	861,363.07
H4	748,176.20	861,416.26
H5	748,091.48	861,401.46
H6	748,094.78	861,382.60
H7	748,072.97	861,359.26

WHIPPOORWILL YOUTH AREA PARKING LOT (3)		
POINT NUMBER	NORTHING	EASTING
I1	748,149.57	861,852.94
I2	748,167.21	861,913.93
I3	748,171.57	861,917.31
I4	748,173.21	861,933.23
I5	748,191.46	861,915.25
I6	748,193.11	861,931.17
I7	748,199.59	861,993.83
I8	748,177.23	861,996.15
I9	748,155.24	861,992.90
I10	748,130.93	861,968.39
I11	748,129.49	861,938.38
I12	748,138.83	861,859.10

PARKING LOT NO. 12		
POINT NUMBER	NORTHING	EASTING
C1	748,125.77	858,589.69
C2	748,120.63	858,585.55
C3	748,115.07	858,573.14
C4	748,137.03	858,563.31
C5	748,102.17	858,485.51
C6	748,043.42	858,511.83
C7	748,074.50	858,581.19
C8	748,087.56	858,575.33
C9	748,100.78	858,580.37
C10	748,106.42	858,592.96
C11	748,106.24	858,600.01

PARKING LOT NO. 13		
POINT NUMBER	NORTHING	EASTING
B1	749,410.92	858,162.30
B2	749,365.92	858,133.29
B3	749,361.10	858,115.52
B4	749,283.89	858,136.45
B5	749,296.46	858,182.80
B6	749,290.38	858,194.76

LAKESIDE PARKING LOT		
POINT NUMBER	NORTHING	EASTING
P1	744,622.34	863,595.63
P2	744,606.74	863,647.17
P3	744,450.65	863,842.45
P4	744,403.80	863,869.02

PERMISSON PICNIC AREA PARKING LOT		
POINT NUMBER	NORTHING	EASTING
G1	747,870.46	860,412.91
G2	747,876.70	860,414.84
G3	747,892.17	860,396.81
G4	747,887.10	860,368.62
G5	747,961.90	860,355.16
G6	747,973.76	860,421.10
G7	747,879.24	860,438.11
G8	747,873.65	860,442.16

PARKING LOT NO. 8 (MARLOW POND TRAIL)		
POINT NUMBER	NORTHING	EASTING
M1	745,722.37	862,485.89
M2	745,717.91	862,486.10
M3	745,704.14	862,480.06
M4	745,701.94	862,475.17
M5	745,715.50	862,433.12
M6	745,679.82	862,421.61
M7	745,657.25	862,491.56
M8	745,683.10	862,499.90
M9	745,698.11	862,498.79
M10	745,706.56	862,498.59
M11	745,711.50	862,500.75
M12	745,714.37	862,504.16

PARKING LOT NO. 6 (CATTAIL TRAIL)		
POINT NUMBER	NORTHING	EASTING
Q1	744,052.14	864,761.03
Q2	744,048.78	864,768.53
Q3	743,986.11	864,790.09
Q4	743,997.56	864,823.37
Q5	744,044.84	864,807.11
Q6	744,038.98	864,790.09
Q7	744,055.13	864,782.30
Q8	744,062.25	864,783.10

PARKING LOT NO. 11 (HENNEMAN TRAIL)		
POINT NUMBER	NORTHING	EASTING
D1	747,484.17	859,134.43
D2	747,477.09	859,130.21
D3	747,473.86	859,115.67
D4	747,475.57	859,079.51
D5	747,467.59	859,047.38
D6	747,438.47	859,054.61
D7	747,443.29	859,074.02
D8	747,462.64	859,134.34
D9	747,458.16	859,141.85

SASSAFRAS PICNIC AREA PARKING LOT (1)		
POINT NUMBER	NORTHING	EASTING
K1	746,932.51	861,975.01
K2	746,943.92	861,980.59
K3	747,010.88	861,959.89
K4	747,049.90	862,053.63
K5	747,031.44	862,061.32
K6	747,037.58	862,076.09
K7	747,007.06	862,095.41
K8	747,005.66	862,106.12
K9	746,945.29	862,003.03
K10	746,948.23	861,997.58
K11	746,962.38	861,993.20
K12	746,980.66	862,001.77
K13	747,008.21	862,067.97
K14	747,004.67	862,080.03
K15	746,998.37	862,084.40
K16	746,987.09	862,082.48

SASSAFRAS PICNIC AREA PARKING LOT (3)		
POINT NUMBER	NORTHING	EASTING
L1	747,055.35	862,673.69
L2	747,046.72	862,719.99
L3	747,035.62	862,779.08
L4	747,032.26	862,786.29
L5	746,995.22	862,801.98
L6	746,979.63	862,757.68
L7	746,993.97	862,734.81
L8	747,022.54	862,697.17
L9	747,040.50	862,667.73

LOOKOUT POINT PICNIC AREA PARKING LOT		
POINT NUMBER	NORTHING	EASTING
R1	744,994.36	865,178.04
R2	745,005.82	865,183.19
R3	745,020.20	865,182.10
R4	745,018.68	865,162.15
R5	745,088.48	865,156.84
R6	745,093.33	865,220.66
R7	745,033.51	865,225.21
R8	745,031.99	865,205.27
R9	745,017.74	865,206.35
R10	745,013.57	865,212.69

CIRCLE DRIVE PICNIC AREA PARKING LOT (1)		
POINT NUMBER	NORTHING	EASTING
E1	748,348.84	859,034.60
E2	748,298.15	859,033.28
E3	748,296.25	859,105.96
E4	748,312.34	859,106.22
E5	748,312.03	859,126.21
E6	748,368.13	859,127.11
E7	748,397.21	859,133.08

SASSAFRAS PICNIC AREA PARKING LOT (2)		
POINT NUMBER	NORTHING	EASTING
J1	747,148.56	862,388.96
J2	747,152.36	862,395.05
J3	747,206.08	862,396.30
J4	747,218.24	862,400.78
J5	747,228.49	862,405.12
J6	747,248.19	862,407.47
J7	747,230.43	862,556.42
J8	747,212.92	862,554.33
J9	747,201.19	862,556.51
J10	747,186.58	862,558.14
J11	747,114.47	862,538.53
J12	747,106.69	862,542.64
J13	747,145.26	862,422.40
J14	747,152.25	862,416.56
J15	747,184.19	862,417.30
J16	747,203.59	862,439.66
J17	747,183.67	862,437.78
J18	747,175.15	862,509.27
J19	747,195.00	862,511.64
J20	747,163.69	862,532.23
J21	747,120.74	862,520.55
J22	747,116.92	862,513.29

WHITE OAK PICNIC AREA PARKING LOT		
POINT NUMBER	NORTHING	EASTING
S1	748,087.73	865,026.24
S2	748,146.67	864,970.37
S3	748,179.91	864,904.45
S4	748,238.16	864,878.85
S5	748,258.67	864,884.65
S6	748,276.63	864,890.85
S7	748,227.64	865,032.63
S8	748,188.01	865,018.93
S9	748,137.03	865,020.99
S10	748,159.07	864,994.12
S11	748,156.15	864,987.11
S12	748,196.68	864,906.74
S13	748,225.08	864,894.59
S14	748,228.96	864,895.76
S15	748,236.81	864,911.17
S16	748,234.70	864,917.28
S17	748,221.28	864,923.20
S18	748,207.49	864,917.23
S19	748,178.92	864,983.33
S20	748,197.28	864,991.26
S21	748,178.50	865,000.44

CIRCLE DRIVE PICNIC AREA PARKING LOT (2)		
POINT NUMBER	NORTHING	EASTING
F1	748,641.72	859,152.42
F2	748,684.65	859,168.75
F3	748,733.14	859,176.86
F4	748,740.87	859,130.63
F5	748,704.21	859,094.54
F6	748,697.61	859,082.61

BLACK OAK PICNIC AREA PARKING LOT (1)		
POINT NUMBER	NORTHING	EASTING
N1	745,707.96	863,019.44
N2	745,691.67	863,024.46
N3	745,687.76	863,021.02
N4	745,632.75	863,083.51
N5	745,647.24	863,096.26
N6	745,646.63	863,104.22

BLACK OAK PICNIC AREA PARKING LOT (2)		
POINT NUMBER	NORTHING	EASTING
O1	745,458.45	863,275.02
O2	745,458.29	863,309.98
O3	745,465.84	863,325.71
O4	745,411.68	863,351.72
O5	745,387.84	863,302.09
O6	745,429.95	863,281.87
O7	745,448.53	863,263.45

PHILLIPS CREEK TRAIL PARKING LOT (1)		
POINT NUMBER	NORTHING	EASTING
T1	749,733.74	864,600.93
T2	749,728.69	864,573.09
T3	749,713.89	864,562.84
T4	749,708.20	864,571.06
T5	749,694.28	864,573.58

PHILLIPS CREEK TRAIL PARKING LOT (2)		
POINT NUMBER	NORTHING	EASTING
U1	749,249.97	864,290.20
U2	749,236.29	864,267.88
U3	749,236.67	864,265.63
U4	749,210.21	864,260.13
U5	749,188.33	864,277.37

PARKING LOT NO. 15		
POINT NUMBER	NORTHING	EASTING
V1	751,580.61	857,623.83
V2	751,577.50	857,636.82
V3	751,568.86	857,642.79
V4	751,595.85	857,681.87
V5	751,604.46	857,675.92
V6	751,617.19	857,677.06

VOLKERT

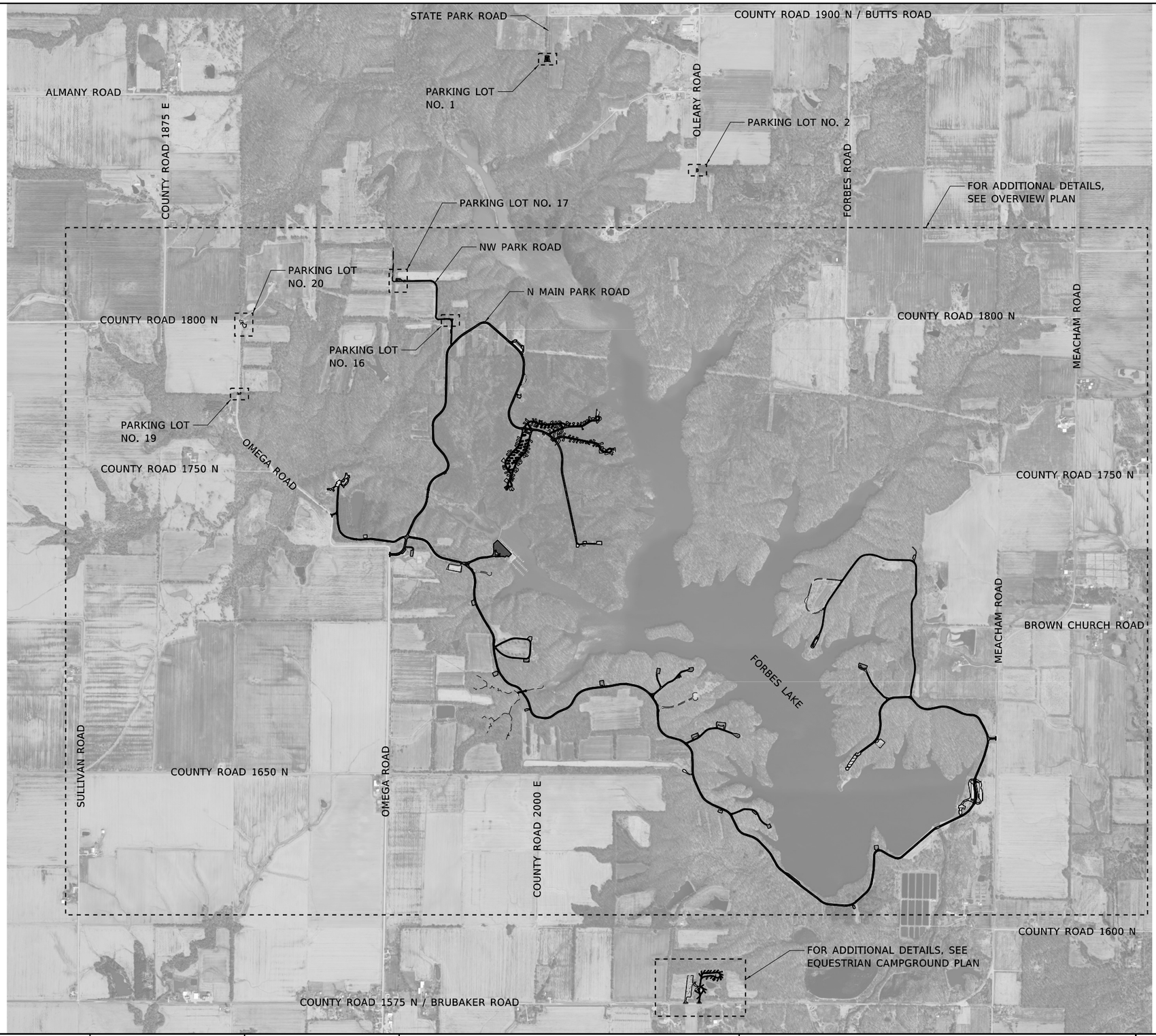
USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARKING LOT CONTROL POINTS
STEPHEN A. FORBES STATE RECREATION AREA

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	71
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		



N

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SCALE IN FEET

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VOLKERT

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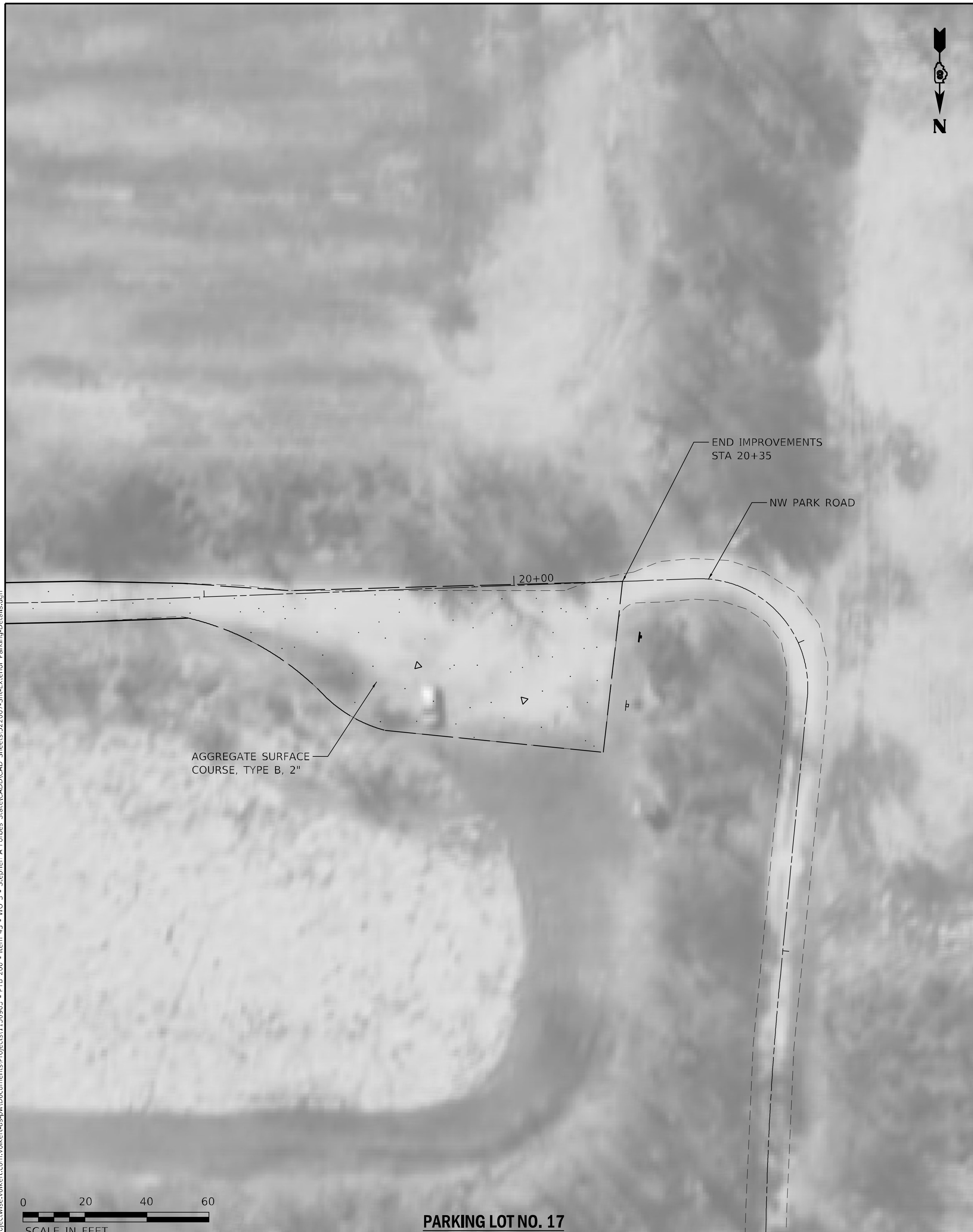
	DRAWN -	REVISED -
PLOT SCALE = 1800.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXTERIOR PARKING LOT OVERVIEW
STEPHEN A. FORBES STATE RECREATION AREA

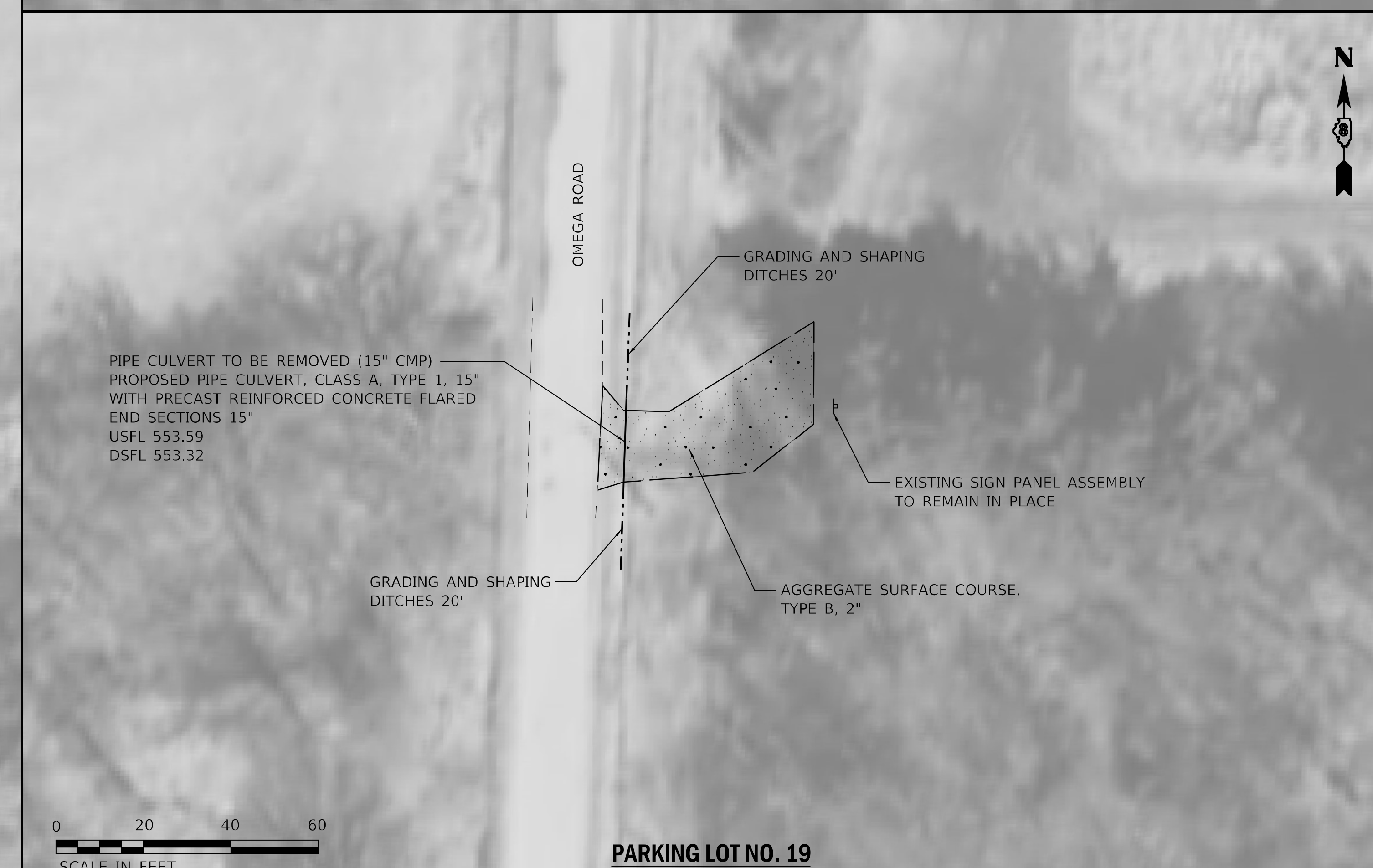
SCALE: 1"=900' | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	72
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		



PARKING LOT NO. 17

PARKING LOT NO. 16



PARKING LOT NO. 19

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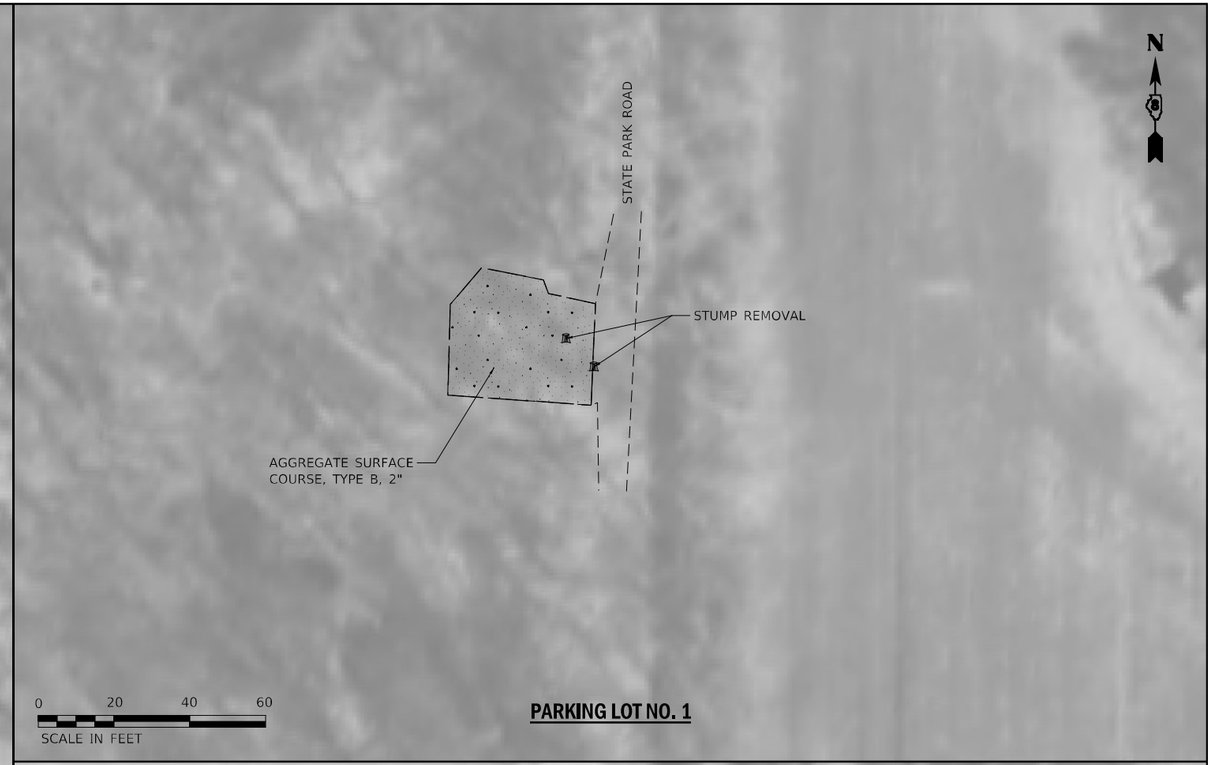
VOLKERT	USER NAME = default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXTERIOR PARKING LOT DETAILS STEPHEN A. FORBES STATE RECREATION AREA
		DRAWN -	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 10/24/2023	DATE -	REVISED -		SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	73
		CONTRACT NO. 46933		
		ILLINOIS FED. AID PROJECT		

PARKING LOT NO. 20



PARKING LOT NO. 1

PARKING LOT NO. 2

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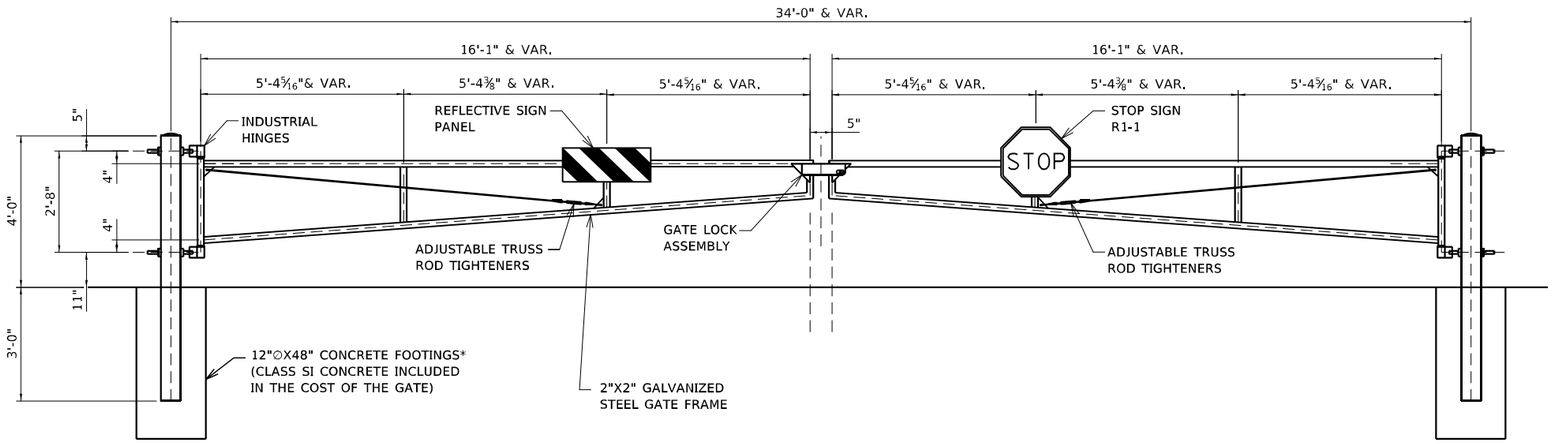
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/24/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

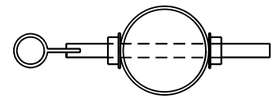
EXTERIOR PARKING LOT DETAILS
STEPHEN A. FORBES STATE RECREATION AREA

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

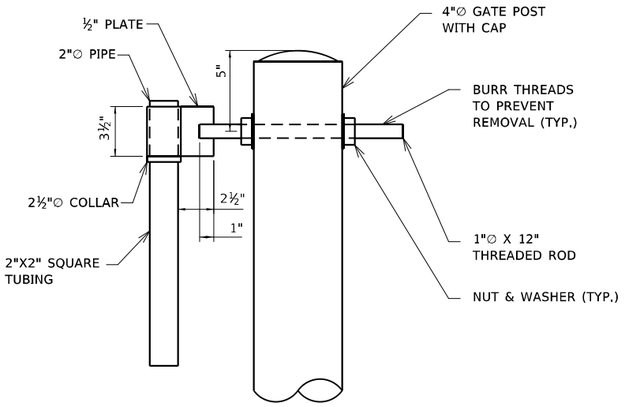
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	74
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		



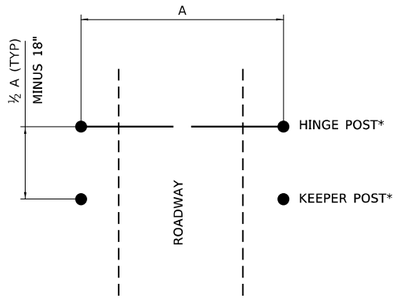
X0323013 TUBULAR STEEL GATE



PLAN VIEW

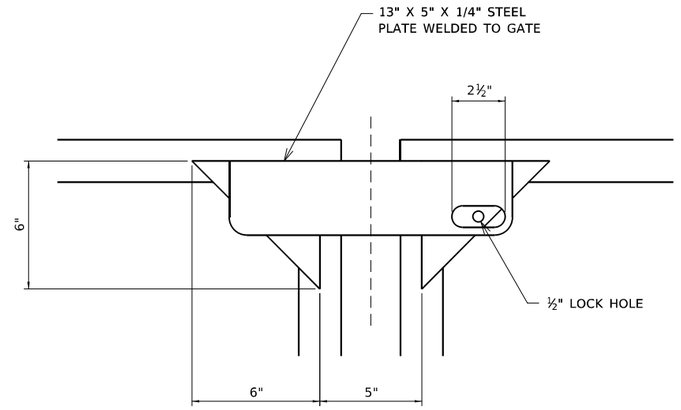


TOP GATE HINGE

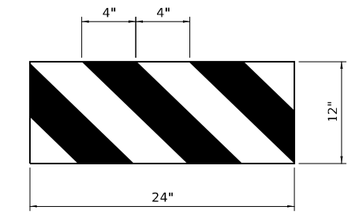


PLAN VIEW

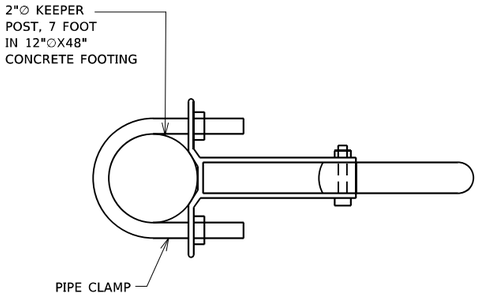
*ALL POSTS (HINGE POST, KEEPER POST, ETC.) SHALL HAVE 12"∅X48" CONCRETE FOOTINGS.



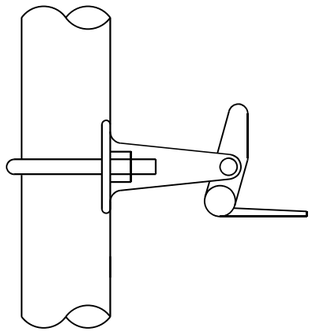
GATE LOCK ASSEMBLY



HORIZONTAL PANEL DETAIL

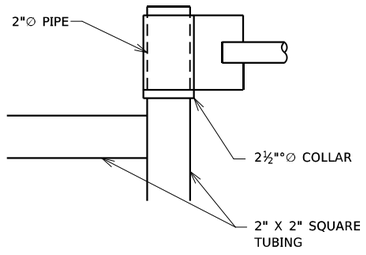


PLAN VIEW

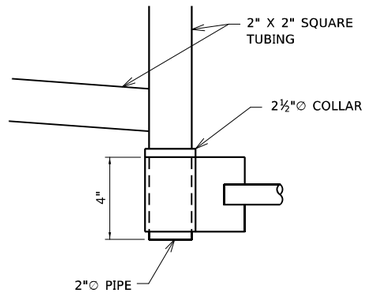


SIDE VIEW

AUTOMATIC GATE KEEPER



DETAIL AT TOP HINGE



DETAIL AT BOTTOM HINGE

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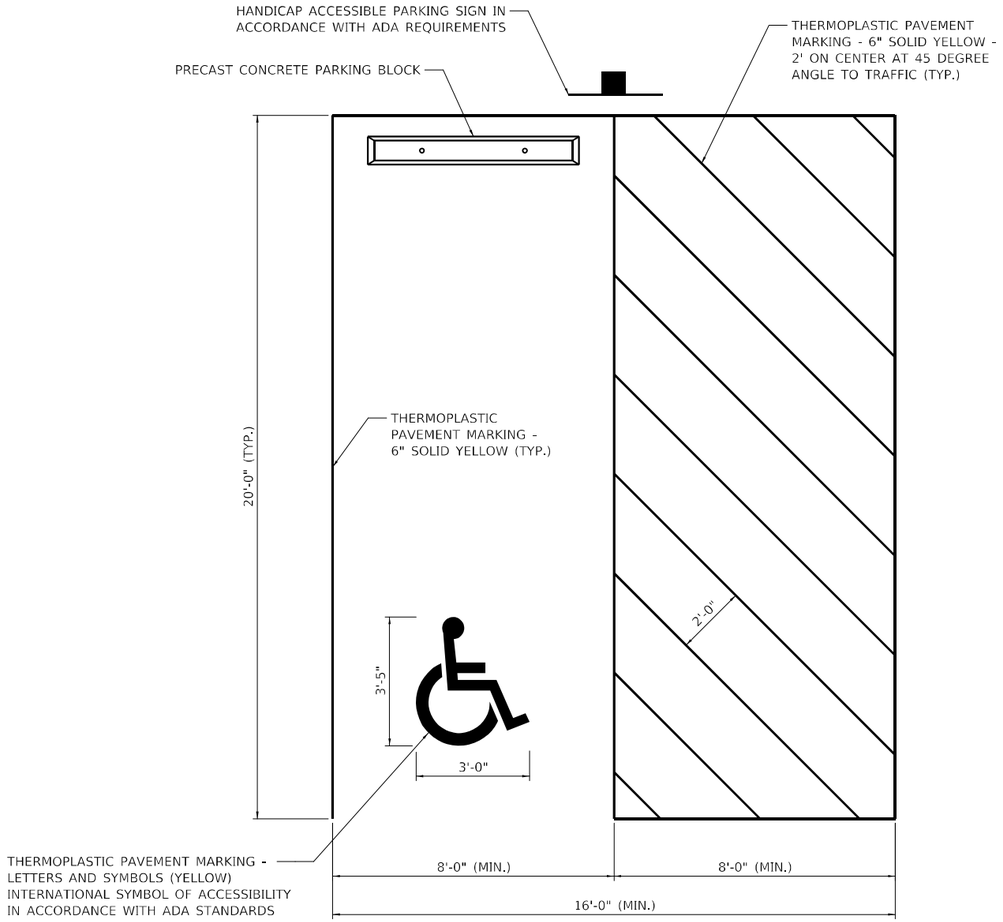
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

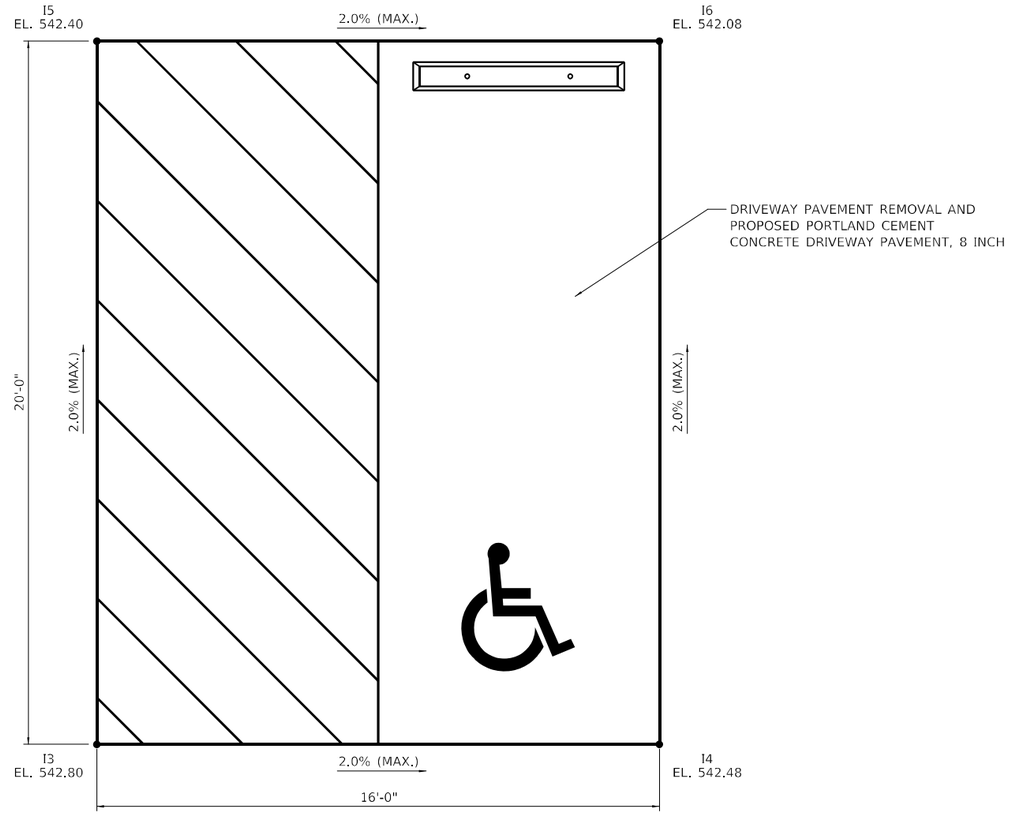
TUBULAR STEEL GATE DETAILS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 1 OF 6 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	75
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			

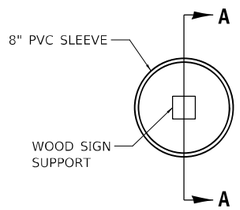


HANDICAP PARKING SPACE DETAIL



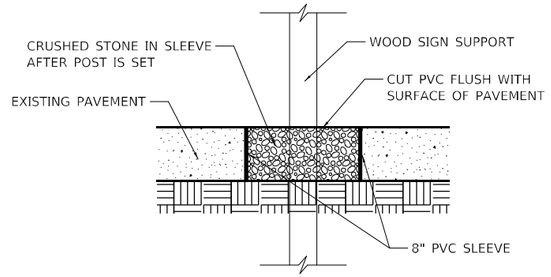
CONCRETE PAD REPLACEMENT DETAIL

WHIPPOORWILL YOUTH AREA PARKING LOT (3)



SIGN POST SLEEVE DETAIL

MARINA RESTAURANT PARKING LOT
COST INCLUDED IN WOOD SIGN SUPPORT



SECTION A-A

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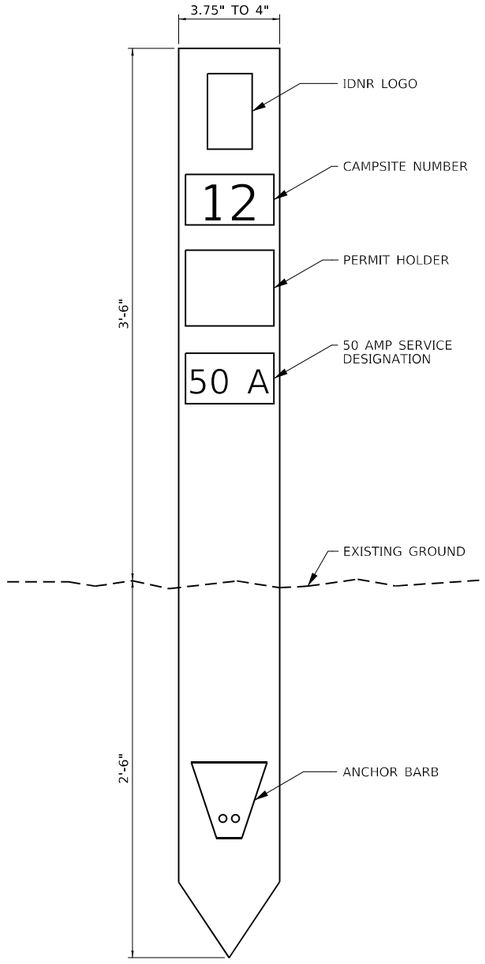
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

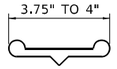
MISCELLANEOUS DETAILS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 2 OF 6 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	76
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		



FRONT VIEW

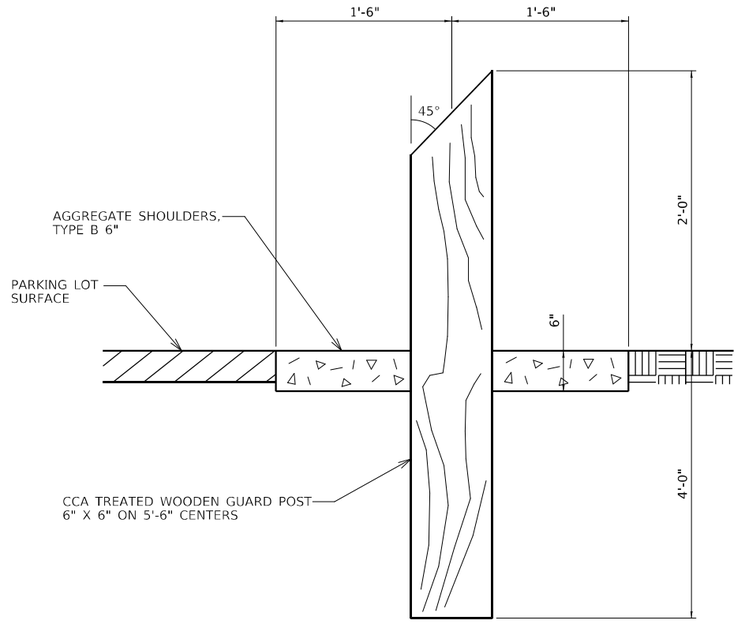


TOP VIEW

NOTES:

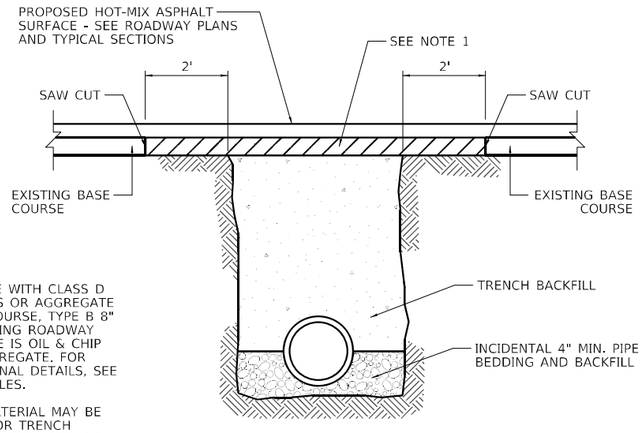
1. MARKERS SHALL BE OF FIBERGLASS REINFORCED COMPOSITE, BROWN IN COLOR.
2. SUBMIT SAMPLES TO IDNR FOR COLOR SELECTION PRIOR TO FABRICATION.
3. 50 AMP SERVICE DESIGNATION ON MARKER SHALL ONLY BE APPLIED TO SITE MARKERS AS SHOWN IN THE SIGNAGE SCHEDULE.

CAMPSITE MARKER



NOTE: 3' AGGREGATE SHOULDERS, TYPE B, SHALL BE CONSTRUCTED A UNIFORM 6" THICK AT GUARD POST LOCATIONS.

GUARD POST DETAIL



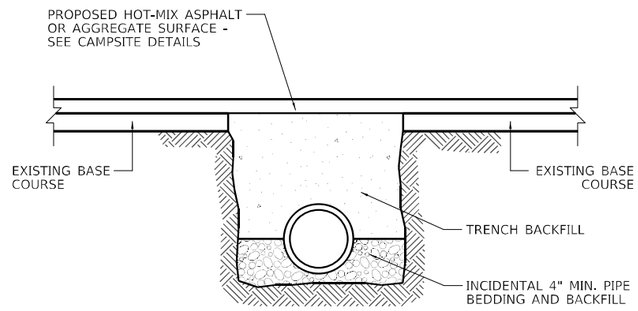
NOTES:

1. REPLACE WITH CLASS D PATCHES OR AGGREGATE BASE COURSE, TYPE B 8" IF EXISTING ROADWAY SURFACE IS OIL & CHIP OR AGGREGATE. FOR ADDITIONAL DETAILS, SEE SCHEDULES.
2. CA-6 MATERIAL MAY BE USED FOR TRENCH BACKFILL MATERIAL. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THIS CHANGE.

CULVERT BACKFILL (ROADWAY)

N.T.S.

FOR BACKFILLING BENEATH HOT-MIX ASPHALT, OIL & CHIP AND AGGREGATE SURFACES.



CULVERT BACKFILL (CAMPSITES)

N.T.S.

FOR BACKFILLING BENEATH HOT-MIX ASPHALT OVERLAY CAMPSITES AND AGGREGATE CAMPSITES.
FOR BACKFILLING BENEATH HOT-MIX ASPHALT RESURFACING CAMPSITES, SEE CULVERT BACKFILL (ROADWAY) DETAIL.

MODEL: $MODELNAME$
FILE NAME: p:\projectwise.volkert.com\volkert-us-pw\Documents\Projects\1150903 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\522007-Sht-Details.dgn

VOLKERT

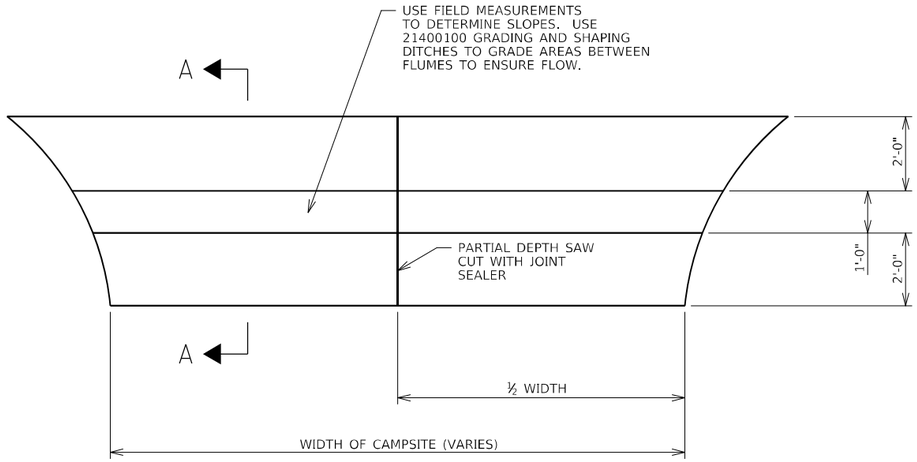
USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS
STEPHEN A. FORBES STATE RECREATION AREA

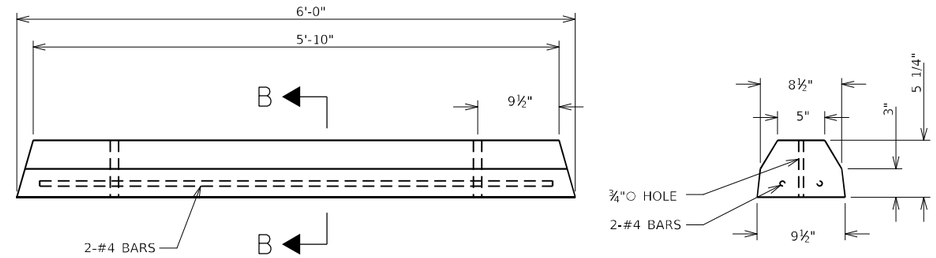
SCALE: 1"=20' | SHEET 3 OF 6 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	77
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		



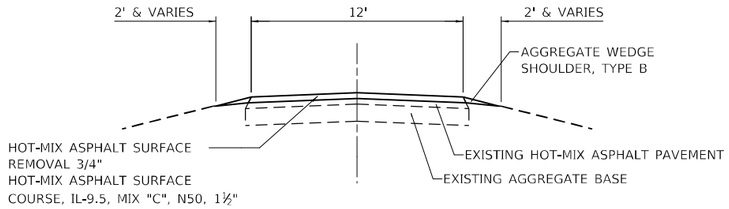
60617800 PAVED FLUME (PLAN VIEW)

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

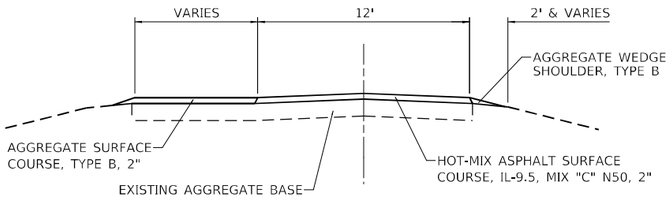


SECTION B-B

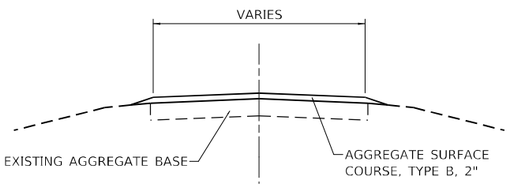
PRECAST CONCRETE PARKING BLOCK DETAIL



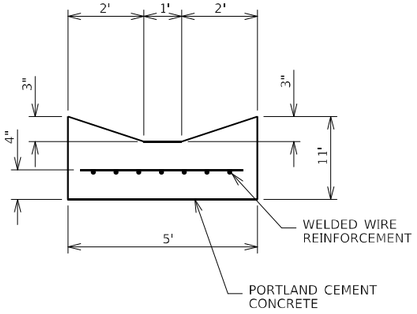
HOT-MIX ASPHALT RESURFACING CAMPSITE



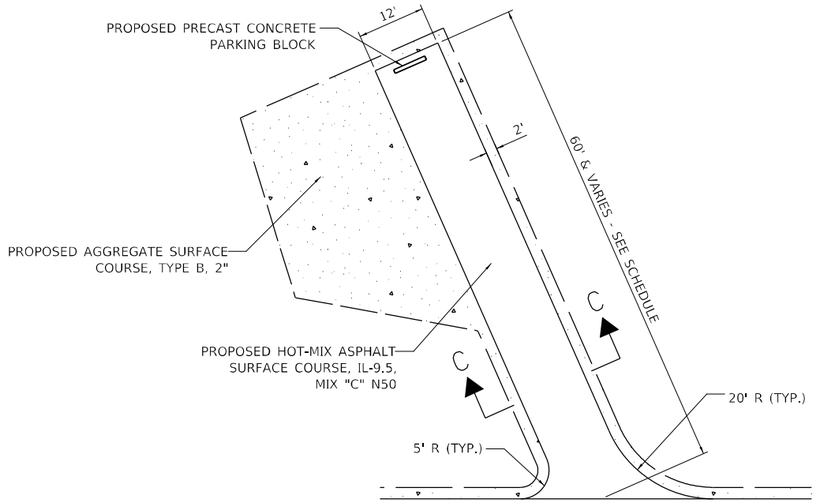
HOT-MIX ASPHALT OVERLAY CAMPSITE



AGGREGATE CAMPSITE



SECTION A-A



TYPICAL HOT-MIX ASPHALT CAMPSITE

SECTION C-C

MODEL: $MODELNAME$
FILE NAME: pw:\\projectwise.volkert.com:volkertdgn-pw\Documents\Projects\1150903 - PTB 200 - Item 43 - WO 3 - Stephen A Forbes State\CADD\CAD Sheets\522007-SHT-Details.dgn

VOLKERT

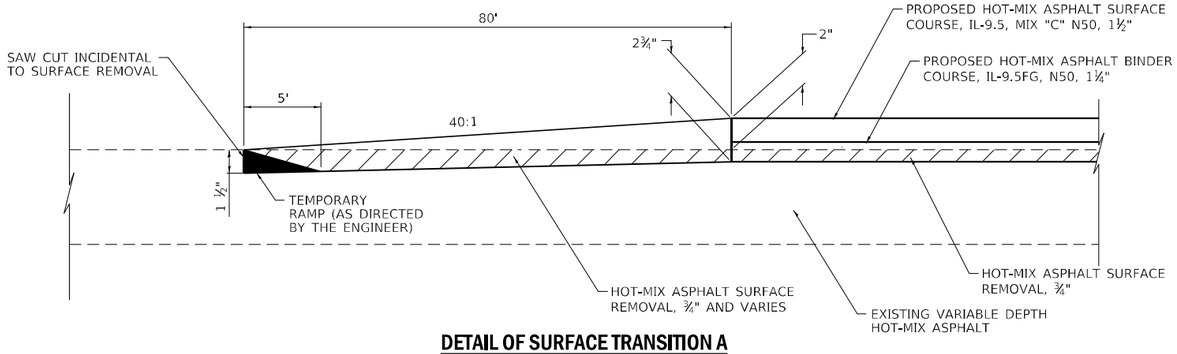
USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

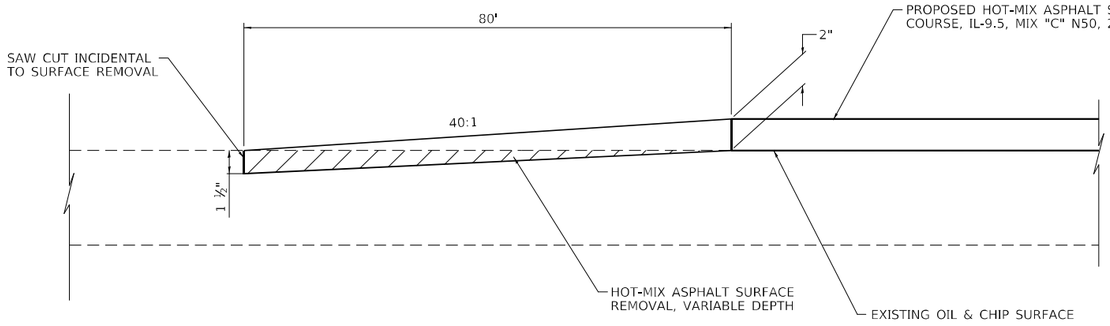
MISCELLANEOUS DETAILS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 4 OF 6 SHEETS | STA. | TO STA.

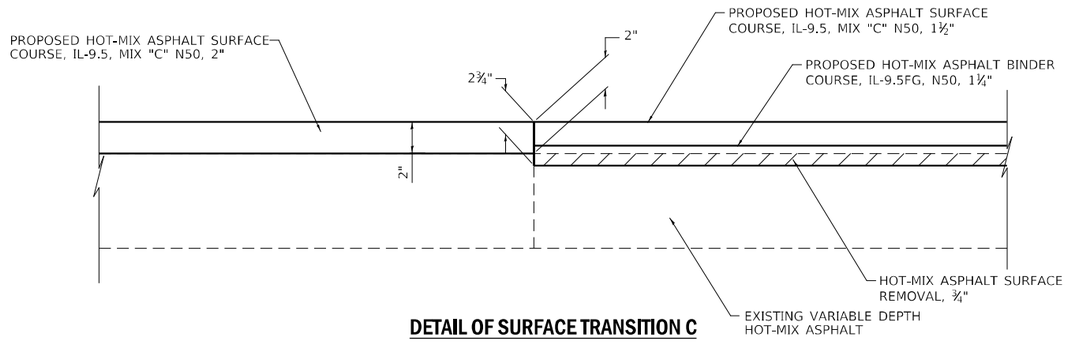
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	78
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			



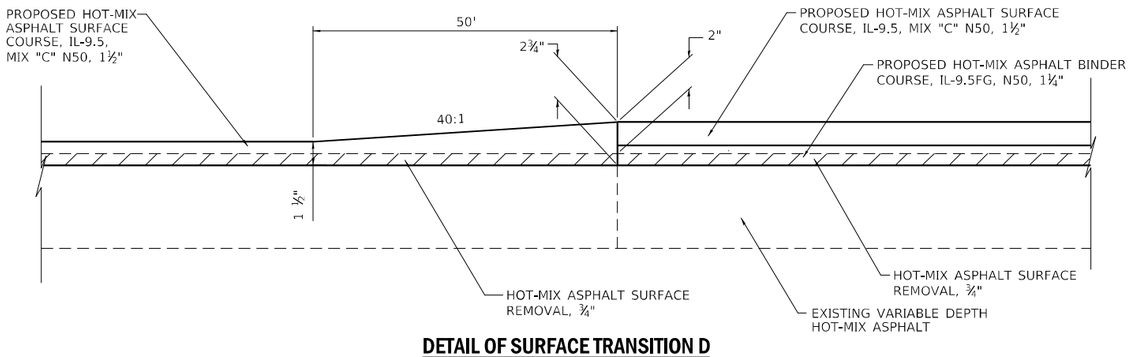
DETAIL OF SURFACE TRANSITION A



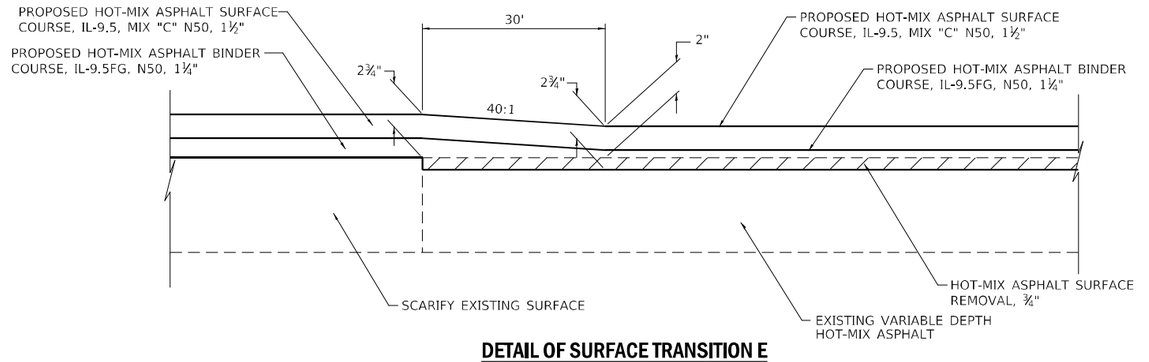
DETAIL OF SURFACE TRANSITION B



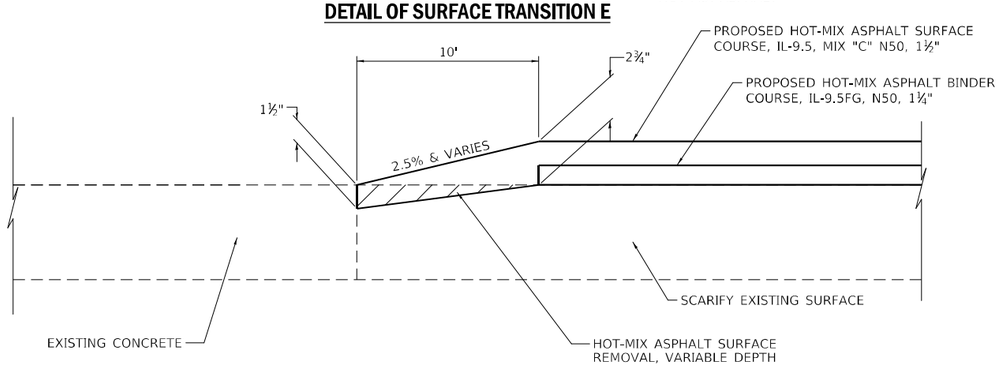
DETAIL OF SURFACE TRANSITION C



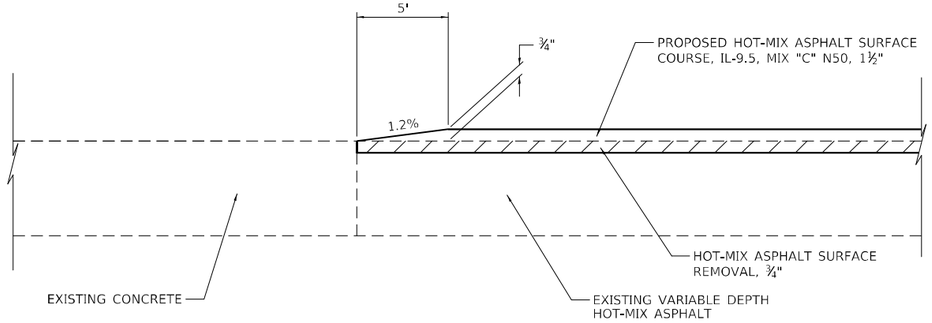
DETAIL OF SURFACE TRANSITION D



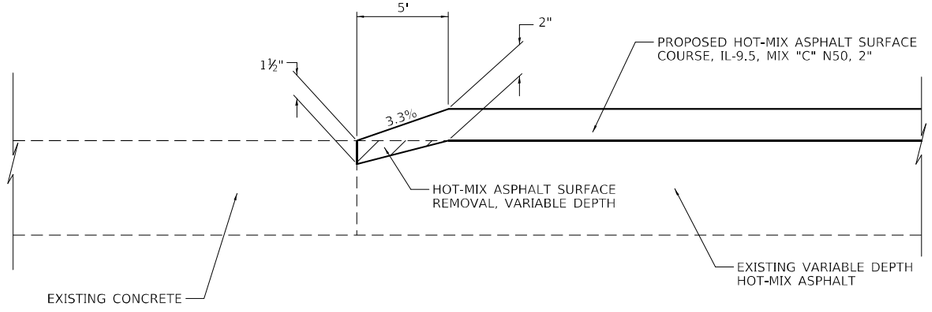
DETAIL OF SURFACE TRANSITION E



DETAIL OF SURFACE TRANSITION F



DETAIL OF SURFACE TRANSITION G



DETAIL OF SURFACE TRANSITION H

MODEL: $MODELNAME$
FILE NAME: j:\active\projects\wilsc.volkert.com\volkert-ucpw\Documents-Projects\1150903 - PTB 200 - Item 43 - W0 3 - Stephen A Forbes State\CADD\CAD Sheets\522007-SH-Details.dgn

VOLKERT

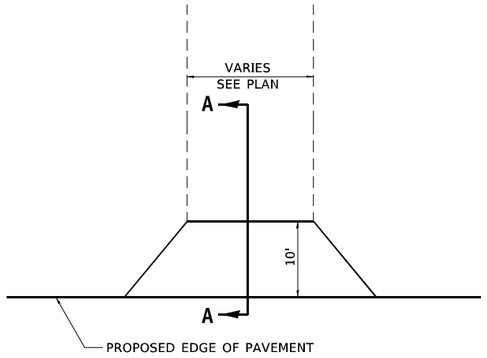
USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

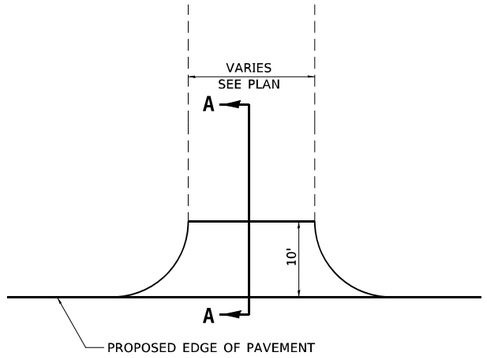
SURFACE TRANSITION DETAILS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 5 OF 6 SHEETS | STA. | TO STA.

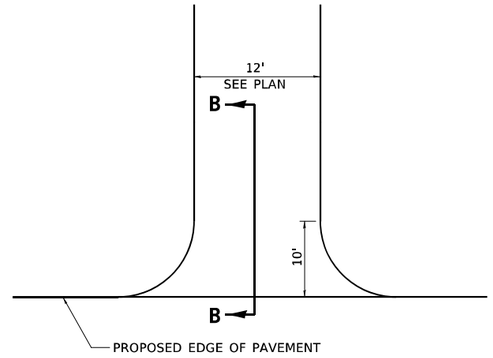
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	79
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		



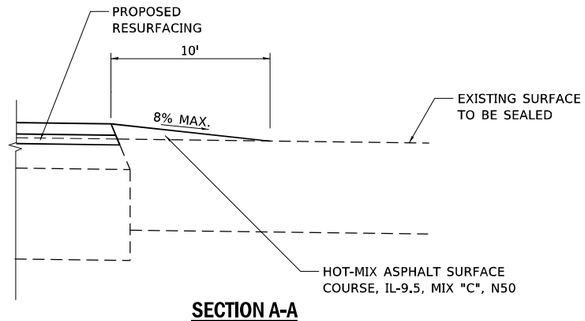
ENTRANCE WITH FLARED APRON



ENTRANCE WITH RADIUS APRON

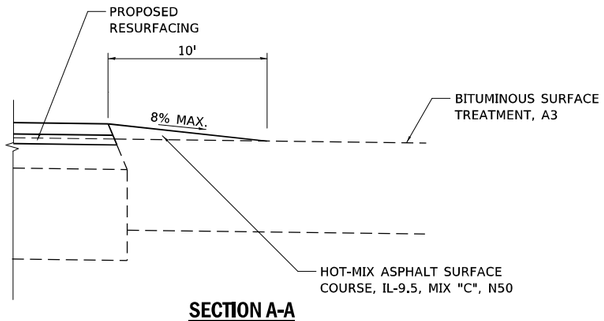


CAMPSITE ENTRANCE WITH RADIUS APRON



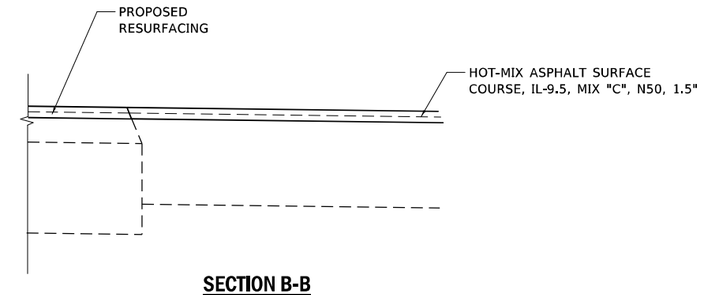
SECTION A-A

ENTRANCE 1 - PARKING LOT SEAL COAT



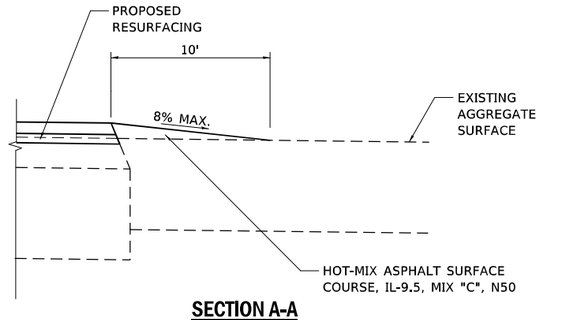
SECTION A-A

ENTRANCE 4 - BITUMINOUS SURFACE TREATMENT, A3



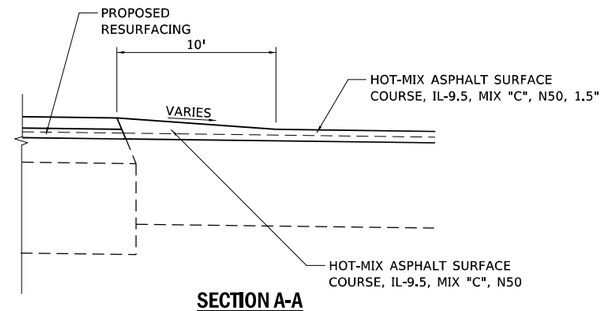
SECTION B-B

ENTRANCE 7 - HMA RESURFACING CAMPSITE



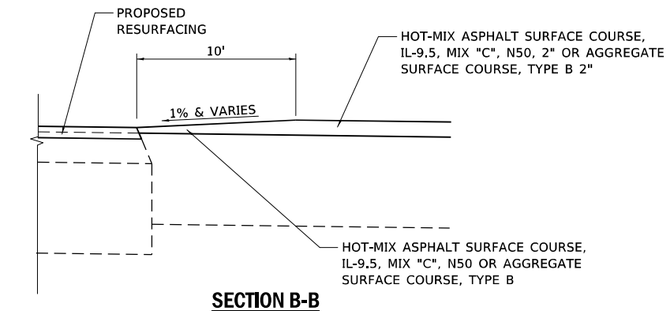
SECTION A-A

ENTRANCE 2 - EXISTING AGGREGATE



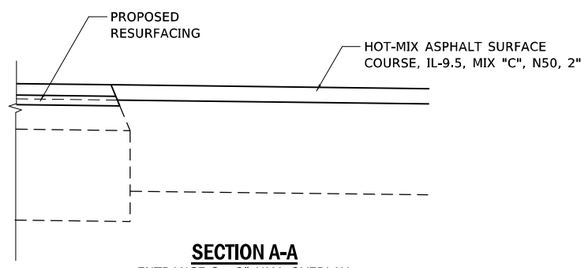
SECTION A-A

ENTRANCE 5 - 3/4" MILLING, 1.5" HMA RESURFACING



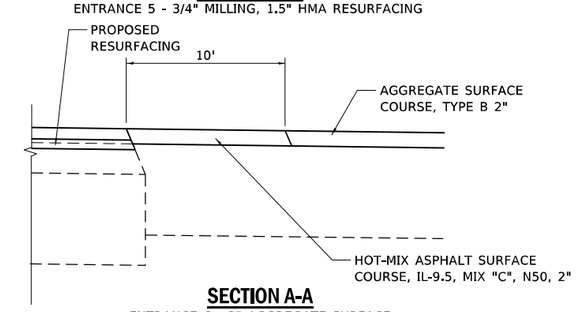
SECTION B-B

ENTRANCE 8 - HMA OVERLAY OR AGGREGATE CAMPSITE



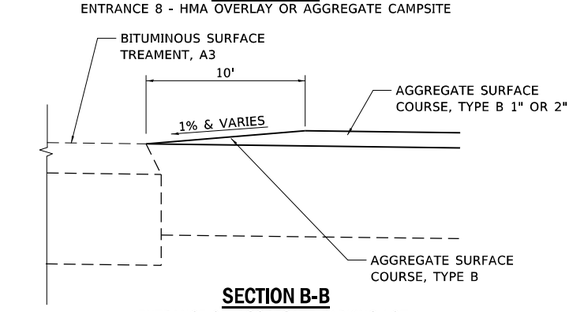
SECTION A-A

ENTRANCE 3 - 2" HMA OVERLAY



SECTION A-A

ENTRANCE 6 - 2" AGGREGATE SURFACE



SECTION B-B

ENTRANCE 9 - AGGREGATE PARKING LOT
OR EQUESTRIAN AGGREGATE CAMPSITE

VOLKERT

USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ENTRANCE DETAILS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 6 OF 6 SHEETS | STA. | TO STA.

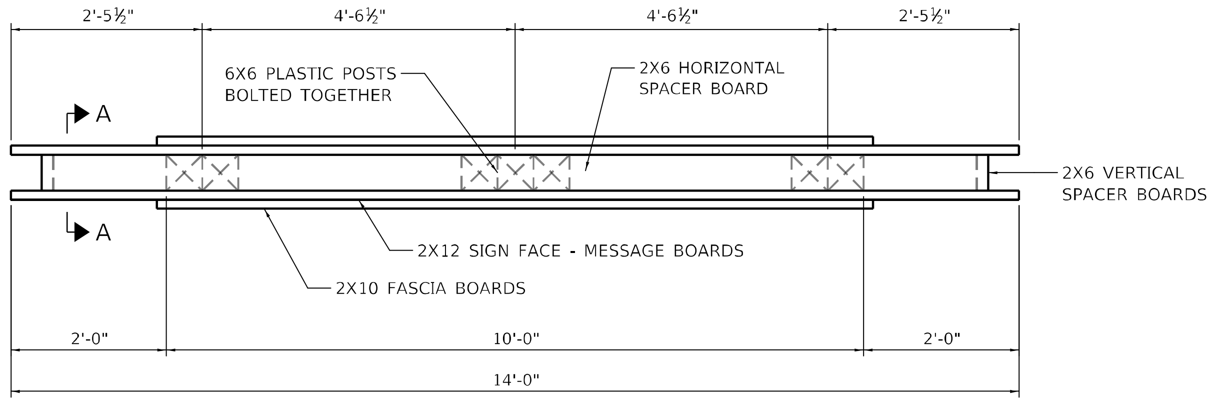
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	80
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		

FIBERGLASS REINFORCED RECYCLED PLASTIC LUMBER MATERIALS LIST: ALL ITEMS TO BE BROWN IN COLOR

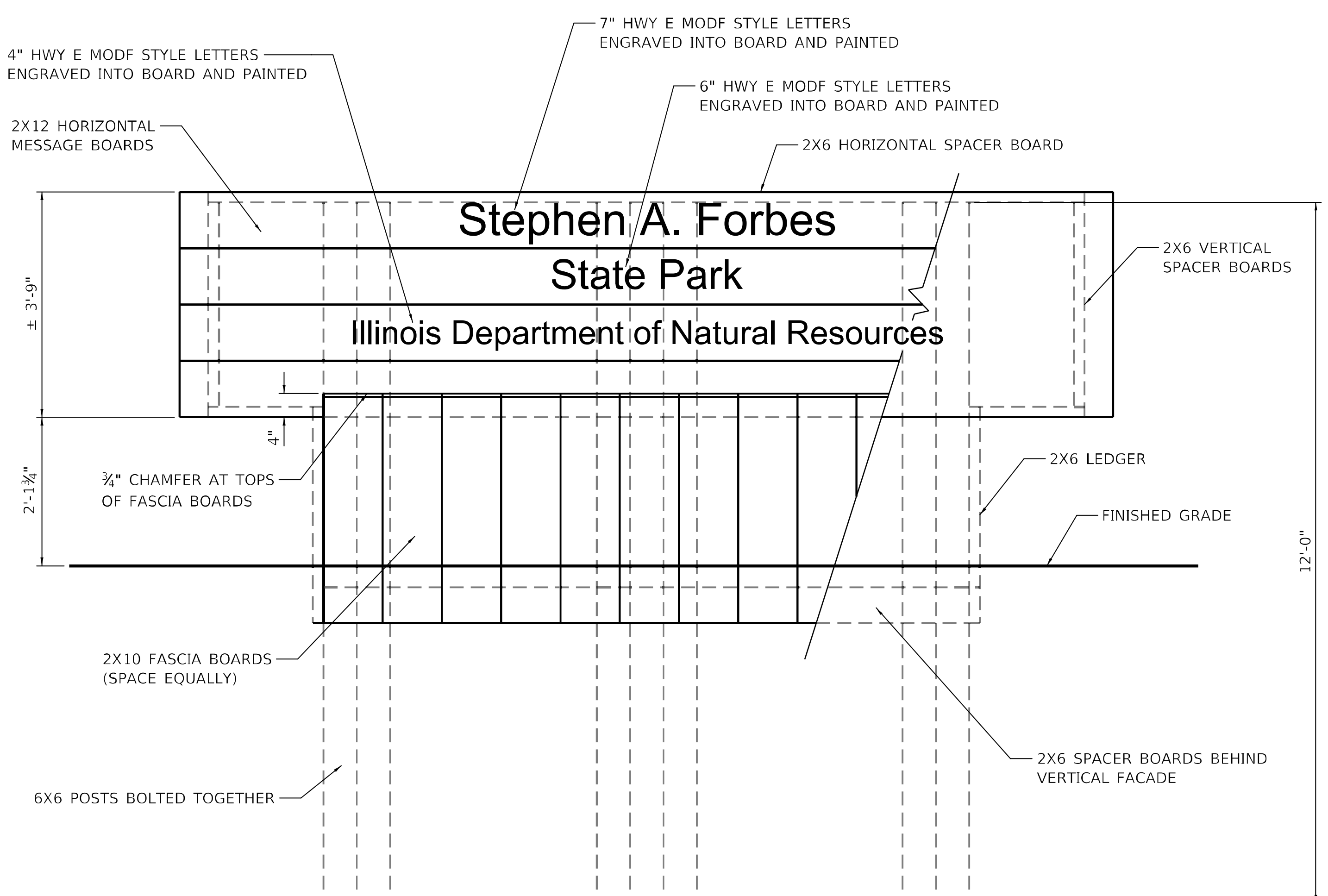
ITEM	LENGTH	QUANTITY	REMARKS
6X6 POST	12'-0"	7 EACH	BOLT POSTS TOGETHER
2X6 SPACER AND LEDGER BOARD	14'-0"	4 EACH	CUT VARIOUS LENGTHS TO FIT
2X12 MESSAGE BOARD	14'-0"	8 EACH	LETTERING ON BOTH SIDES OF SIGN
2X10 BOTTOM FASCIA BOARD	3'-4"	28 EACH	SEE DETAIL VIEW--CHAMFER TOP OF BOARD

GENERAL NOTES:

1. ALL LUMBER IS FIBERGLASS REINFORCED RECYCLED PLASTIC, BROWN IN COLOR UNLESS NOTED OTHERWISE. SUBMIT SAMPLES TO IDNR LANDSCAPE ARCHITECT FOR COLOR SELECTION PRIOR TO FABRICATION.
2. ALL LETTERING IS CENTERED ON SIGN AND IS UPPER AND LOWER CASE HWY E MODF OR SIMILAR FONT. PAINT LETTERS WITH 1 COAT OF PRIMER AND 2 COATS OF A WHITE, EPOXY PAINT MIXED WITH GLASS BEADS. LETTERS ARE TO BE POCKETED OUT WITH A ⅜" UPFLOOT BIT.
3. CONCRETE FOUNDATION INCLUDED IN COST OF ENTRANCE SIGN.

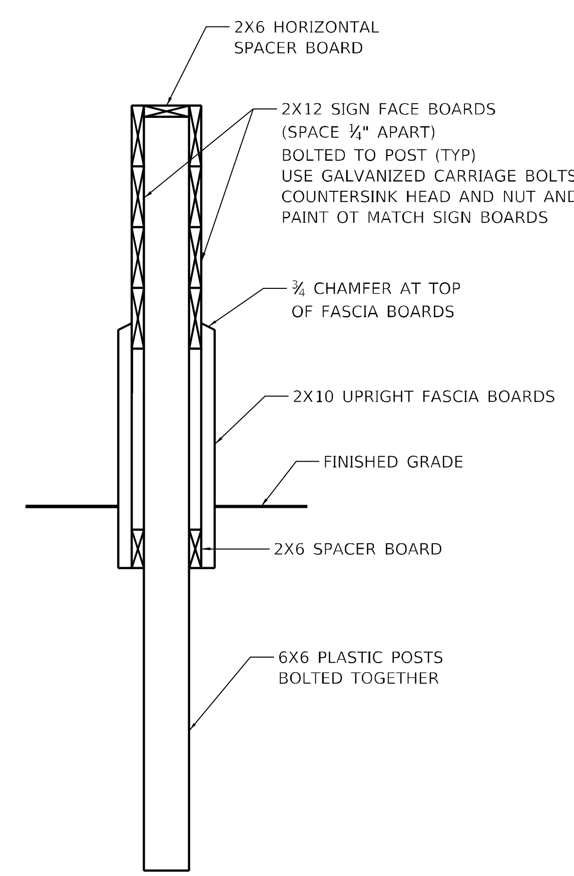


TOP VIEW

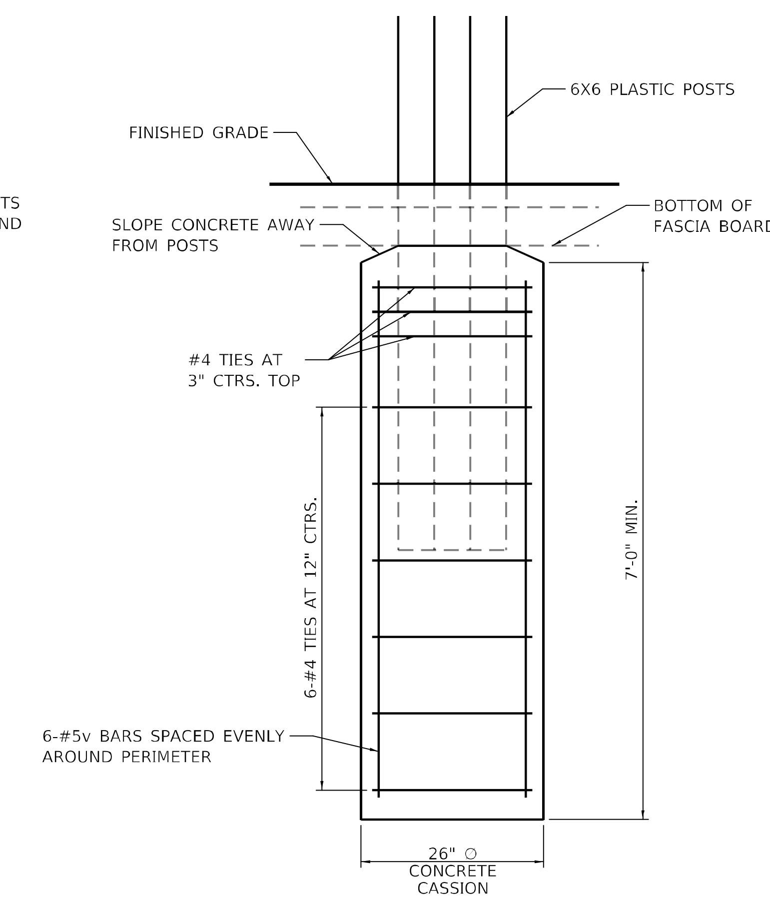


FRONT VIEW

NOTE: LETTERING IS ON BOTH SIDES OF SIGN



SECTION A-A



f'c = 4,000 PSI
Fy = 60,000 PSI (REINF.)

SECTION THRU FOUNDATION

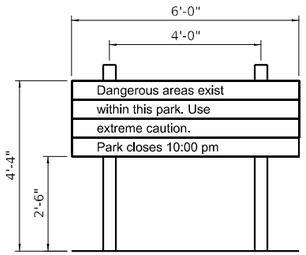
ENTRANCE SIGN

VOLKERT	USER NAME = default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN -	REVISED -	
	PLOT SCALE = 20.0 ':" / in.	CHECKED -	REVISED -	
	PLOT DATE = 10/24/2023	DATE -	REVISED -	

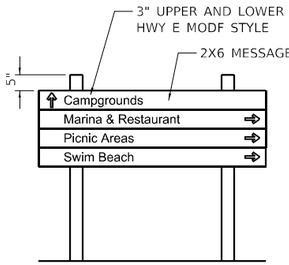
SIGN DETAILS
STEPHEN A. FORBES STATE RECREATION AREA

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	81
		CONTRACT NO. 46933		
		ILLINOIS	FED. AID PROJECT	



D 1 3+75 RT (N MAIN PARK ROAD)



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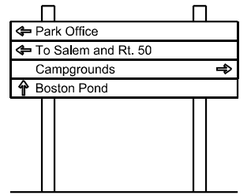
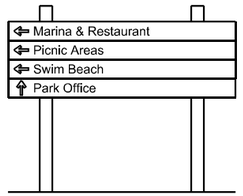
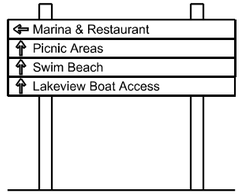


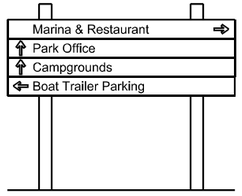
D 3 25+45 LT (MAIN PARK ROAD)



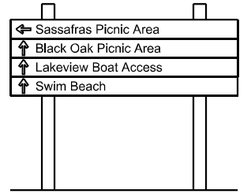
D 4 5+50 LT (N MAIN PARK ROAD)



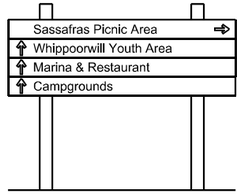
D 5 34+00 RT (MAIN PARK ROAD)



D 6 37+80 LT (MAIN PARK ROAD)



D 7 100+00 RT (MAIN PARK ROAD)



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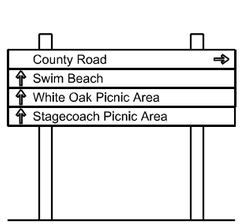
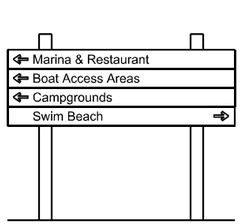
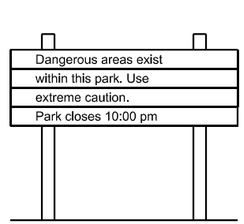


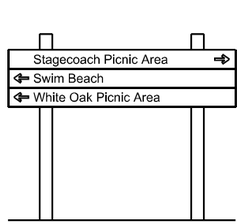
D 9 188+00 RT (MAIN PARK ROAD)



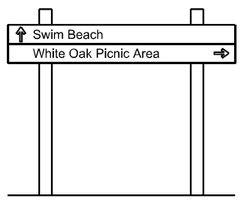
D 10 189+20 LT (MAIN PARK ROAD)



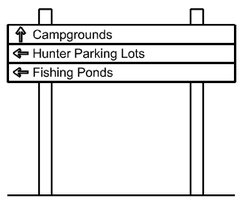
D 11 0+30 LT (EAST PARK ENTRANCE)



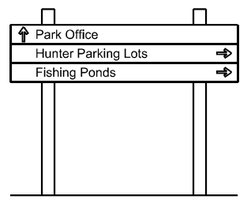
D 12 206+60 RT (MAIN PARK ROAD)



D 13 210+60 RT (MAIN PARK ROAD)



D 14 42+40 RT (N MAIN PARK ROAD)



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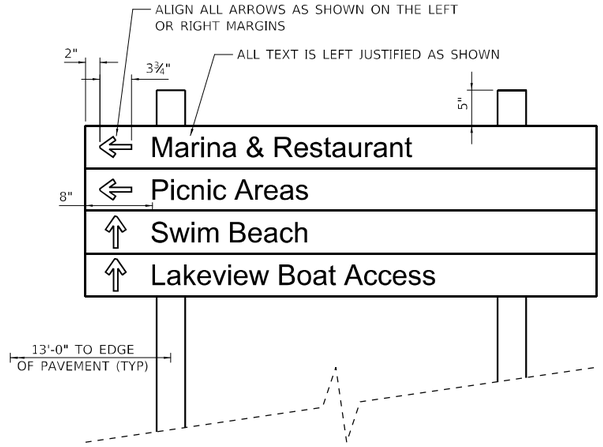
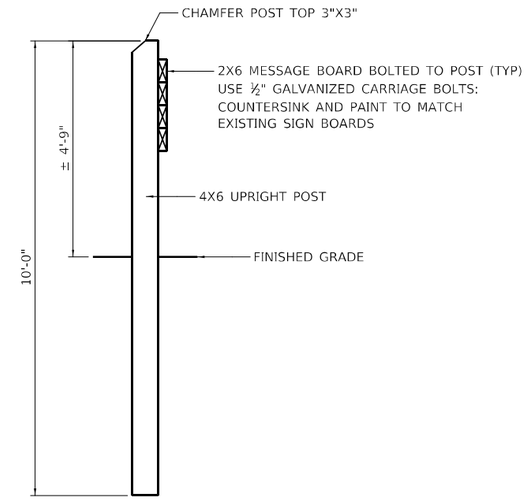


ALIGNMENT DIMENSIONS DETAIL
N.T.S.

GENERAL NOTES:

1. ALL LUMBER IS FIBERGLASS REINFORCED RECYCLED PLASTIC, BROWN IN COLOR. SUBMIT SAMPLES TO IDNR LANDSCAPE ARCHITECT FOR COLOR SELECTION PRIOR TO FABRICATION.

2. ALL DIRECTIONAL LETTERING IS ALIGNED ON THE SIGN'S LEFT MARGIN AS SHOWN. LETTER STYLE IS UPPER AND LOWER CASE HWY E MODF STYLE. LETTERS ARE TO BE ENGRAVED WITH A COMPUTER OR TEMPLATE DRIVER ROUTER SYSTEM. PAINT LETTERS WITH A WHITE, EPOXY PAINT MIXED WITH GLASS BEADS, MIN. 2 COATS.



SIDE VIEW

STEPHEN A. FORBES STATE PARK
DIRECTIONAL SIGNS (LETTERING ON ONE SIDE ONLY)

SIGN STRUCTURE DETAIL

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VOLKERT

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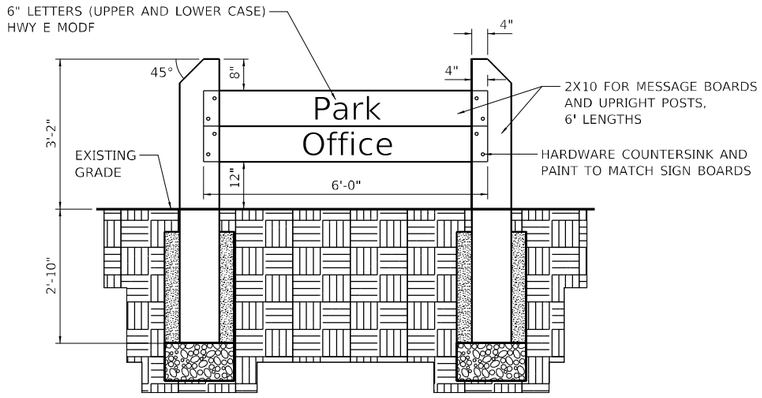
	DRAWN -	REVISED -
PLOT SCALE = 20.0 '-" / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

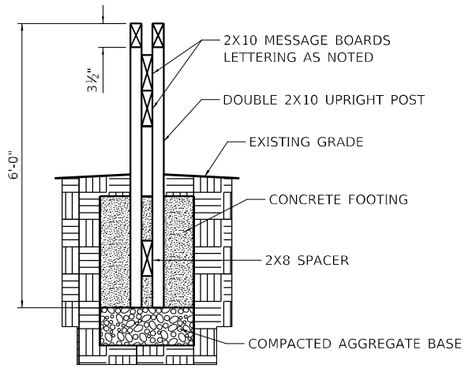
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

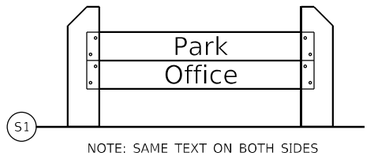
SIGN DETAILS
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=10' | SHEET 2 OF 3 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	82
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		





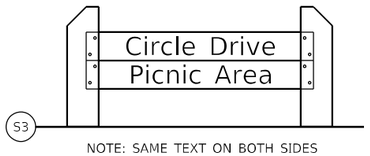


S1

NOTE: SAME TEXT ON BOTH SIDES

S2

NOTE: SAME TEXT ON BOTH SIDES



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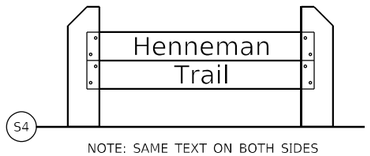
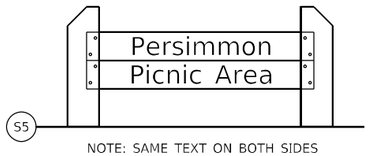


S4

NOTE: SAME TEXT ON BOTH SIDES



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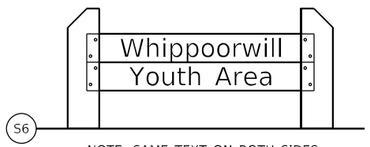

S6

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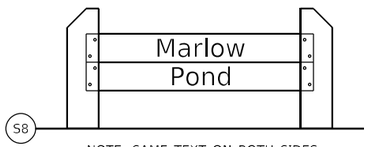
S7

NOTE: SAME TEXT ON BOTH SIDES

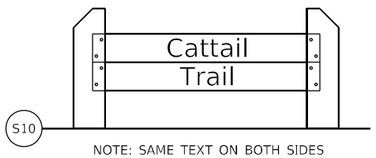


S8

NOTE: SAME TEXT ON BOTH SIDES

S9

NOTE: SAME TEXT ON BOTH SIDES



S10

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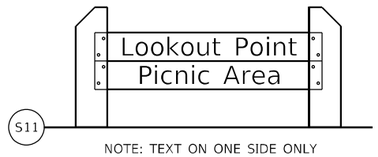
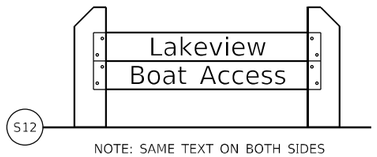


S11

NOTE: TEXT ON ONE SIDE ONLY



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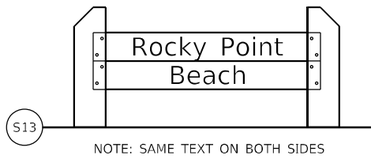

S13

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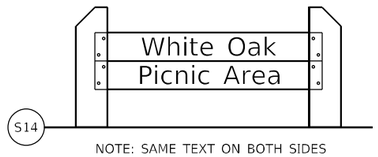

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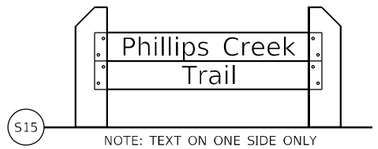
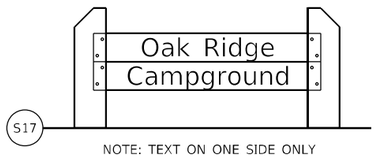


S15

NOTE: TEXT ON ONE SIDE ONLY
(2 SIGNS REQUIRED)

S16

NOTE: TEXT ON ONE SIDE ONLY



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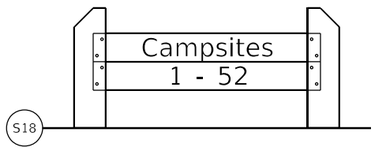
NOTE: TEXT ON ONE SIDE ONLY



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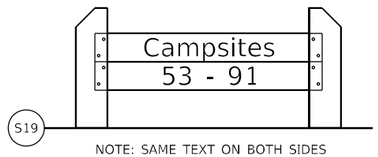

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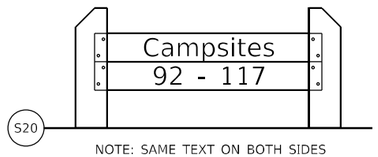

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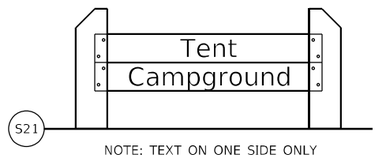

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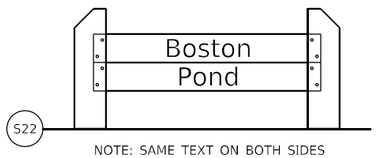


S22

NOTE: SAME TEXT ON BOTH SIDES

SMALL ENTRANCE SIGN

VOLKERT

USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0 ':" / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN DETAILS
STEPHEN A. FORBES STATE RECREATION AREA

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	FORBES 2022	MARION	120	83
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			

Benchmark: Chiseled '□' on West side of light pole foundation next to site map in front of site office, Elev. 561.89.

Existing Structure: The structure consists of 3-48" CMP's, was built in 1962 on Main Park Road.
The three metal pipe culverts are approximately 158 feet long, with a left ahead skew of 21°59'58".
The culvert carries two lanes of traffic. Main Park Road shall be closed during construction.

No Salvage.

INDEX OF SHEETS

GENERAL NOTES

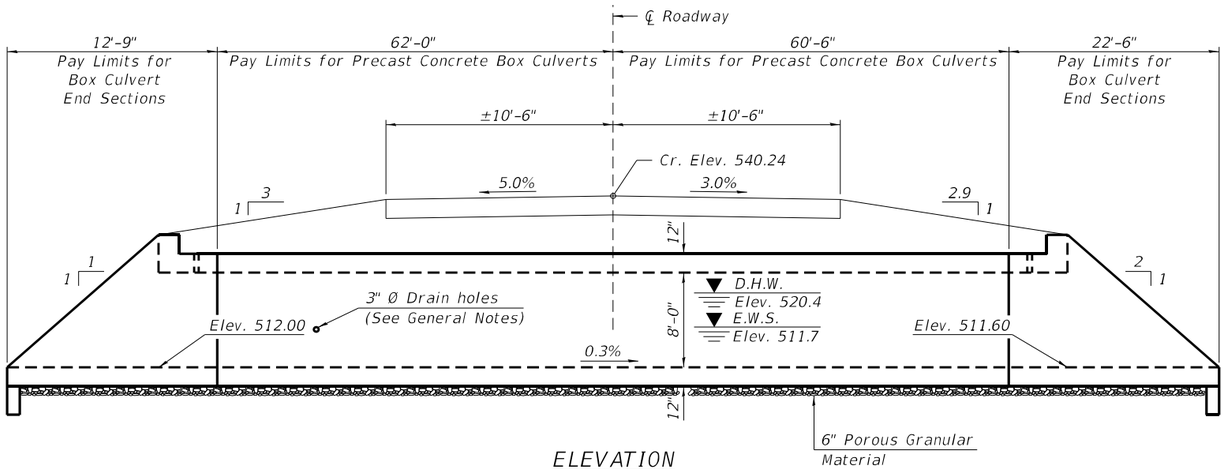
The design fill height for this box is 19.5 ft. The precast box culvert sections shall conform to the requirements of ASTM C 1577.

Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.

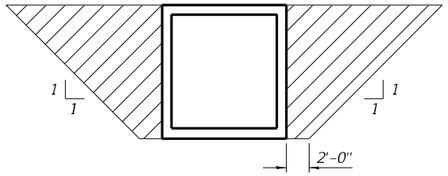
Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment in the required excavation areas on the sides of the box culvert from the top of the box culvert to the bottom of the box culvert. This area of PGE is included in the Porous Granular Embankment pay item. The 6-inch thick layer of porous granular material required under the precast concrete box culvert, according to Section 540.06 of the standard specifications, shall also apply to the end sections. Cost of this porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.

The presence of stiff shale is estimated below elevation 510.0. The proposed toe walls may be eliminated, as determined by the Engineer, if stiff shale prevents excavation.



ELEVATION

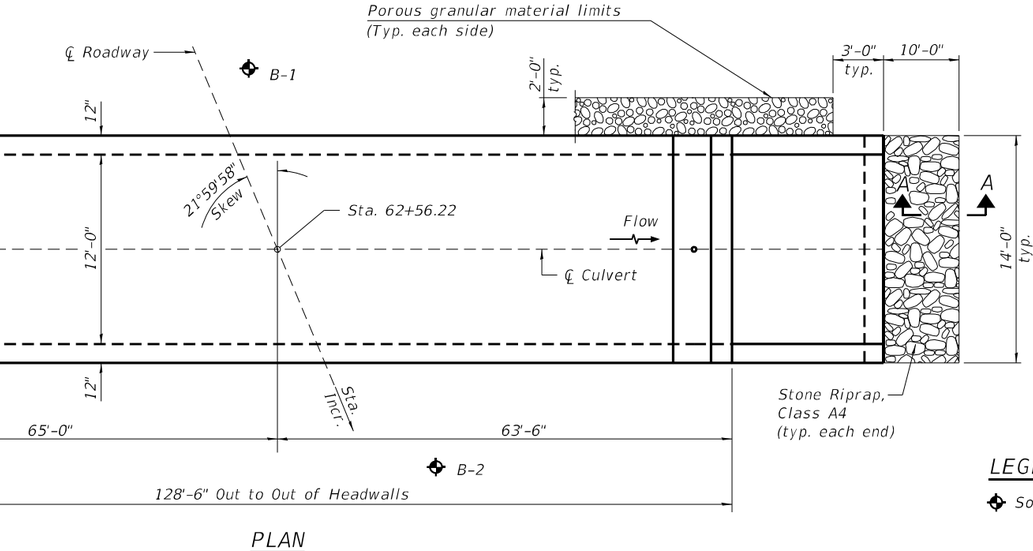


PAY LIMITS FOR POROUS GRANULAR EMBANKMENT

(Hatched area)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	787
Stone Riprap, Class A4	Sq. Yd.	37
Filter Fabric	Sq. Yd.	37
Removal of Existing Structures No. 1	Each	1
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 1	Each	2
Precast Concrete Box Culverts 12' x 8'	Foot	122.5



PLAN

PROFILE GRADE

(along ℄ roadway)

DESIGN SPECIFICATIONS

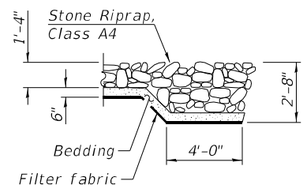
2020 AASHTO LRFD Bridge Design Specifications
Customary U.S. Units, 9th Edition

LOADING HL-93

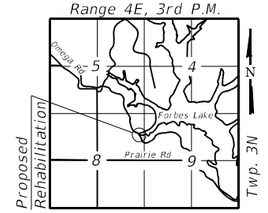
DESIGN STRESSES

PRECAST UNITS

f'c = 5,000 psi
fy = 65,000 psi (Welded Wire Reinforcement)



SECTION B-B



LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area = 0.42 sq. mi. Exist. Low Grade Elev. = 540.16 at Sta. 62+37 Prop. Low Grade Elev. = 540.16 at Sta. 62+37

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	376	35	44	516.7	6.5	1.1	523.2	517.8
Design	50	637	38	55	517.6	19.1	2.8	536.7	520.4
Base	100	758	38	59	517.9	22.8	3.4	540.7	521.3
Overtopping									
Max. Calc.	500	1,080	38	68	518.6	23.1	5.9	541.7	524.5

Exist. 10 Yr. Velocity = 11.2 ft/s
Prop. 10 Yr. Velocity = 9.3 ft/s

LEGEND

Soil Boring

STATION 62+56.22
BUILT 20__ BY
STATE OF ILLINOIS
SEC. FORBES 2022
LOADING HL-93
STR. NO. 061-2400

NAME PLATE

See Std. 515001

LICENSED STRUCTURAL ENGINEER
MICHAEL T. HALEY
081-005991
CHATHAM
STATE OF ILLINOIS

Michael T. Haley 09/01/2023
Michael T. Haley Date
Licensed Structural Engineer
State of Illinois No. 081-005991
Expires 11/30/2024

GENERAL PLAN AND ELEVATION
STEPHEN A. FORBES STATE PARK
MAIN PARK ROAD OVER UNNAMED TRIBITUARY
SEC. FORBES 2022
MARION COUNTY
STATION 62+56.22
STRUCTURE NO. 061-2400

LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois

USER NAME =		DESIGNED - MTH	REVISED -	
		CHECKED - CZ	REVISED -	
PLOT SCALE =		DRAWN - AJF	REVISED -	
PLOT DATE = 10/18/2023		CHECKED - CZ	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 4 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FORBES 2022	MARION	120	84
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		

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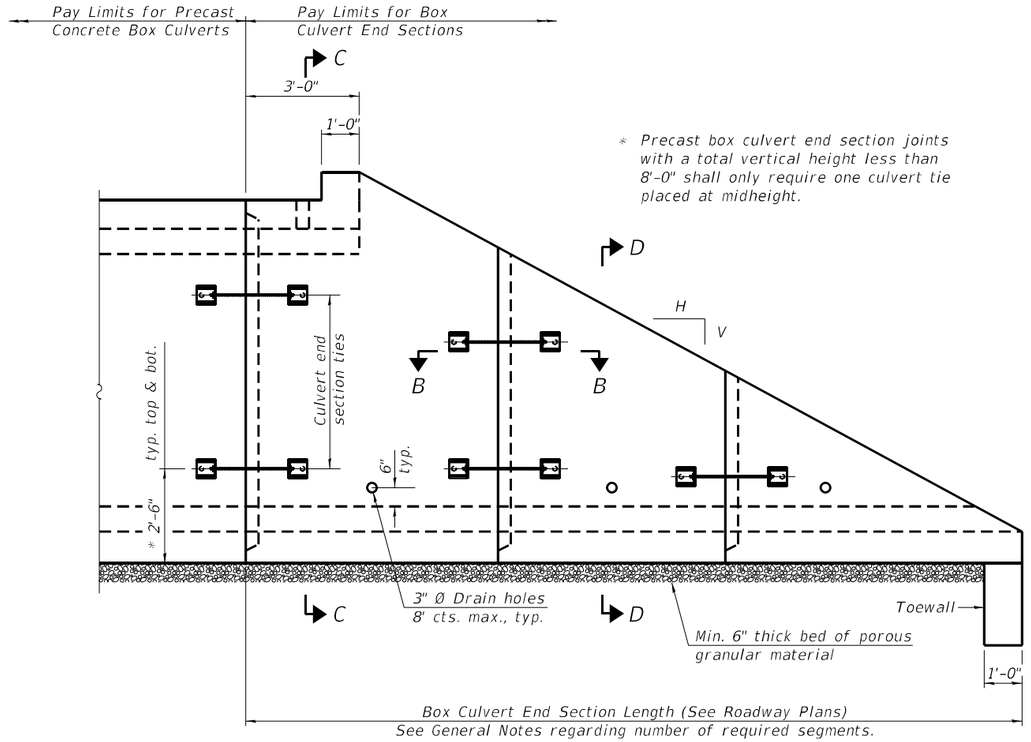
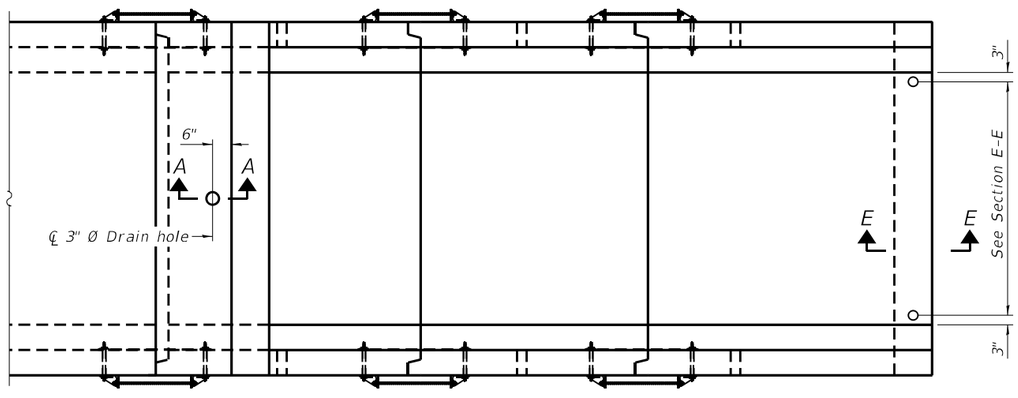
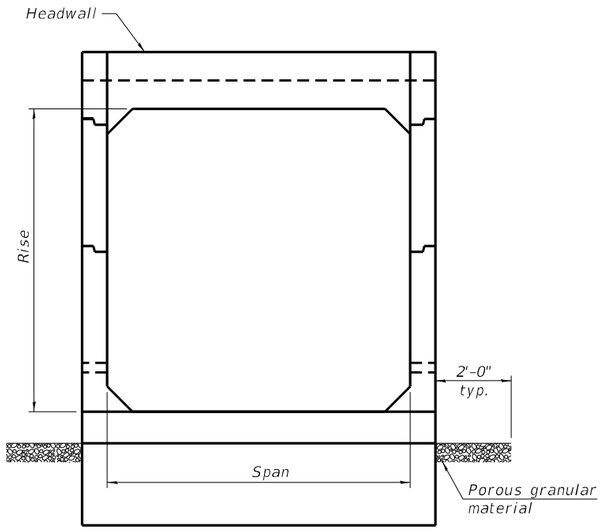


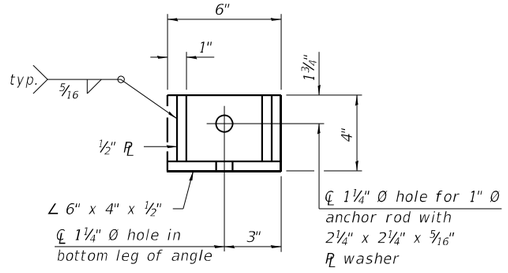
ELEVATION



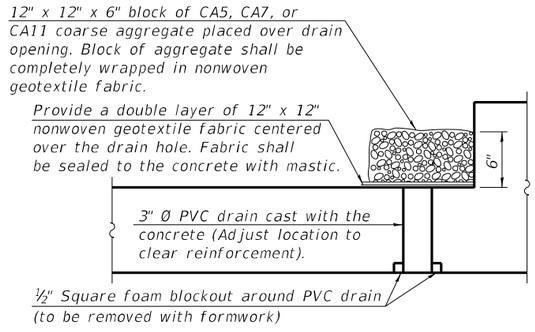
PLAN



END VIEW



RESTRAINT ANGLE DETAIL



SECTION A-A

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. This work will be measured for payment as each, with each end of each culvert being one each. End sections will be paid for at the contract unit price per each for Box Culvert End Sections of the culvert number specified.

Typical box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements of ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

Number of segments shown in Elevation is for example only. Length and number of precast box sections required to construct Box Culvert End Sections shall be determined by the Contractor.

See roadway plans for embankment slope (V:H).

1" Ø anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2¼" x 2¼" x 5/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional ½ turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the contract unit price for Box Culvert End Sections of the culvert number specified.

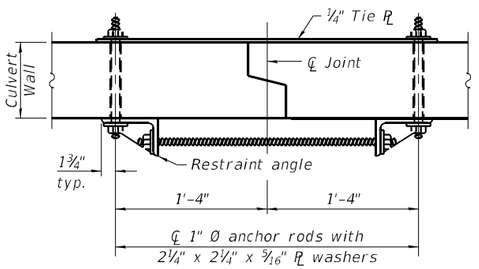
Drain holes shall conform to the requirements of Article 503.11 of the Standard Specifications unless noted otherwise.

Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01. The minimum weight of the fabric shall be 6 oz. / sq. yd..

For end sections with traversable pipe grate systems, see grate detail sheet for required modifications.

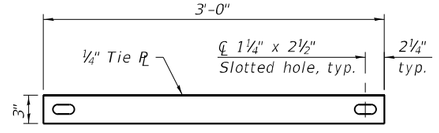
BILL OF MATERIAL

Item	Unit	Total
Box Culvert End Sectons, Culvert No. 1	Each	2



SECTION B-B

(Showing end section tie details)



TIE PLATE DETAIL

SCB-TES 2-17-2017

(Sheet 1 of 2)

LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME =	DESIGNED - MTH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED - CZ	REVISED -	
	PLOT SCALE =	DRAWN - AJF	REVISED -	
	PLOT DATE = 10/18/2023	CHECKED - CZ	REVISED -	

SINGLE CELL PRECAST BOX CULVERT TAPERED END SECTIONS
STRUCTURE NO. 061-2400
SHEET 2 OF 4 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FORBES 2022	MARION	120	85
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		

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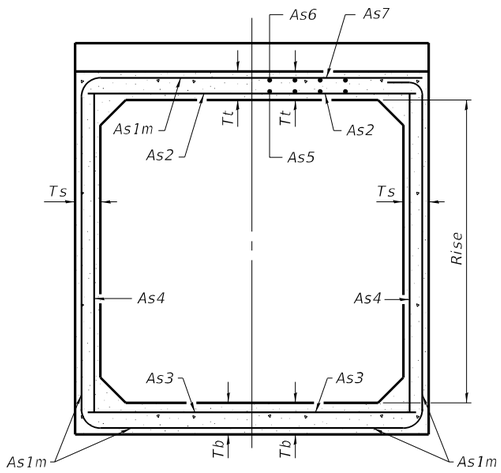
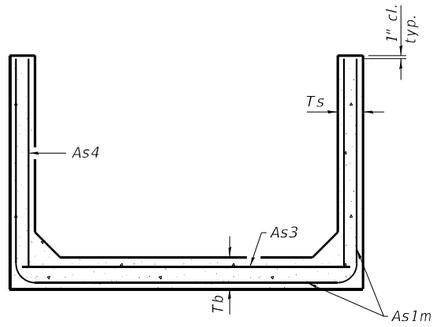
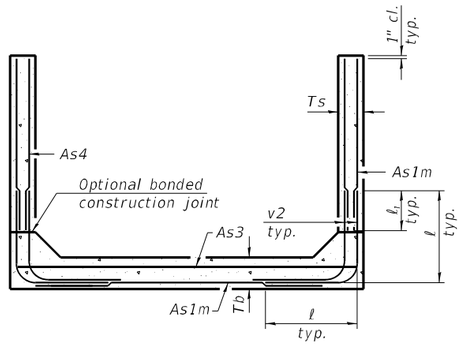


(Design Earth Cover ≥ 2 ft) (Design Earth Cover < 2 ft)

SECTION C-C



SECTION D-D



ALTERNATE SECTION D-D

As1m REINFORCEMENT

(in.²/ ft)

Ts (in.) \ Rise (ft)	2	3	4	5	6	7	8	9	10	11	12
4	0.19	0.17									
5	0.26	0.21	0.18								
6	0.22	0.26	0.23	0.22							
7	0.25	0.33	0.59	0.27	0.28						
8	0.40	0.35	0.43	0.39	0.36	0.34	0.40				
9	0.44	0.39	0.35	0.43	0.40	0.37	0.36	0.48			
10	0.48	0.42	0.38	0.47	0.44	0.41	0.38	0.42	0.56		
11	0.52	0.45	0.54	0.50	0.46	0.44	0.41	0.46	0.50	0.65	
12	0.55	0.49	0.58	0.54	0.50	0.48	0.45	0.46	0.46	0.61	0.75

(As1m reinforcement based upon welded wire reinforcement conforming to AASHTO M 55 or M 221).

ℓ_1 DIMENSION

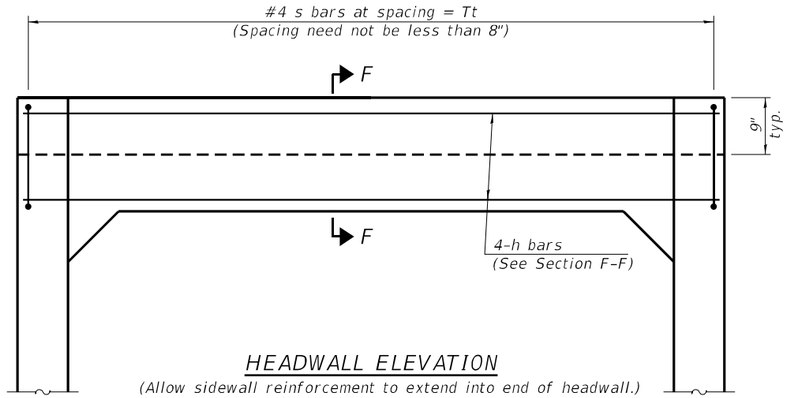
#3 bar = 2'-0"
#4 bar = 2'-8"
#5 bar = 3'-4"
#6 bar = 3'-11"

Notes:

Alternate Section D-D is provided to allow the Contractor the option of casting the bottom slab of the end section first followed by construction of the sidewalls using conventional forming methods. Shop drawings that detail slab thickness and reinforcement layout shall be submitted to the Engineer for review and approval when using Alternate Section D-D.

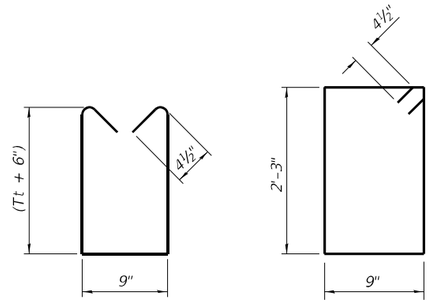
The size and spacing of the v2 bars shall provide a minimum reinforcement area along each face of the walls (in.²/ft.) equal to 1.10^{*}(As1m). v2 bars may consist of #3 thru #6 size reinforcement bars and the longitudinal spacing shall not exceed the lesser of the wall thickness or 8 inches.

Bonded construction joints shall be prepared according to Article 503.09 of the Standard Specifications.



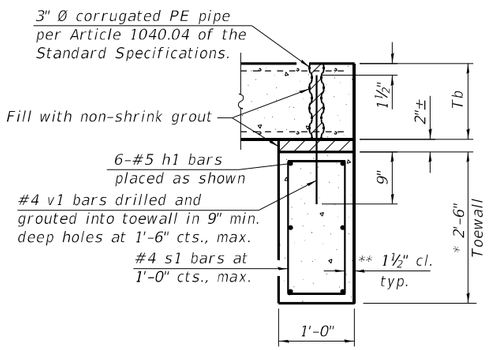
HEADWALL ELEVATION

(Allow sidewall reinforcement to extend into end of headwall.)



BAR s

BAR s1



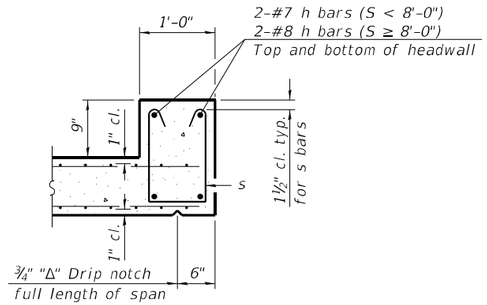
SECTION E-E

TOEWALL CONSTRUCTION SEQUENCE

1. Perform excavation and construct toewall.
2. Backfill according to the applicable paragraphs of Article 502.10 of the Standard Specifications and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling the method.

** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.



SECTION F-F

SCB-TES 2-17-2017

(Sheet 2 of 2)

LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME =	DESIGNED - MTH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SINGLE CELL PRECAST BOX CULVERT TAPERED END SECTIONS STRUCTURE NO. 061-2400
		CHECKED - CZ	REVISED -		
	PLOT SCALE =	DRAWN - AJF	REVISED -		SHEET 3 OF 4 SHEETS
	PLOT DATE = 10/18/2023	CHECKED - CZ	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FORBES 2022	MARION	120	86
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			

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Illinois Department of Transportation
Division of Highways

SOIL BORING LOG

Page 1 of 1

Date 3/28/23

ROUTE _____ DESCRIPTION Stephen A. Forbes State Park Culvert Replacement LOGGED BY MET

SECTION _____ LOCATION Main Road over Unnamed Tributary Sec. Forbes 2022

COUNTY Marion DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. 061-XXXX
Station 10+00.00

BORING NO. B-1
Station _____
Offset _____
Ground Surface Elev. 541.19 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter _____ ft
Upon Completion _____ ft
After ____ Hrs. _____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL 540.8	3		
SILTY CLAY (CL)-Brown and Gray, Stiff, w/ Sand	3 3 4	3.5 P	16
	4		
	3 4	1.8 P	22
-5	4		
	3 4	1.5 P	27
534.2 SILT (ML)-Brown and Gray, Medium-Stiff to Stiff, w/ Sand	4		
	3 3	1.0 P	25
531.7 SILTY CLAY (CL)-Brown and Gray, Stiff to Very Stiff, w. Sand -10	3		
	4 4	2.8 P	21
	2		
	3 3	1.5 P	26
-15	3		
	5 6	3.3 P	20
	3		
	3 4	2.5 P	19
-20			
SILTY CLAY (CL)-Brown and Gray, Stiff to Very Stiff, w. Sand *(continued)*	3		
	2 4	1.0 P	25
	2		
	2 3	1.0 P	19
516.7 SANDY CLAY (CLS)-Brown and Gray, Very Stiff -25	2		
	3 50/4"	3.0 P	22
	12		
	19 38	N/A	14
512.7 SHALE-Dark Gray, Very Stiff			
-30	6		
	10 30	>4.5 P	14
Becomes Gray			
-35	8		
	50/4.5" -	N/A	9
504.7 End of Boring			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways

SOIL BORING LOG

Page 1 of 1

Date 3/28/23

ROUTE _____ DESCRIPTION Stephen A. Forbes State Park Culvert Replacement LOGGED BY MET

SECTION _____ LOCATION Main Road over Unnamed Tributary Sec. Forbes 2022

COUNTY Marion DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. 061-XXXX
Station 10+00.00

BORING NO. B-2
Station _____
Offset _____
Ground Surface Elev. 541.11 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter _____ ft
Upon Completion _____ ft
After ____ Hrs. _____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Roadway-2.5" Asphalt over 6" Crushed Stone 540.4			
SILTY CLAY (CL)-Brown and Gray, Medium-Stiff to Very Stiff, w/ Sand		1.3 P	20
	3		
	2 3	1.8 P	21
-5	2		
	3 3	2.3 P	22
	2		
	3 4	2.8 P	21
-10	2		
	2 3	3.3 P	19
	3		
	3 4	1.3 P	24
-15	3		
	2 3	0.8 P	23
	2		
	3 3	2.8 P	19
-20			
SILTY CLAY (CL)-Brown and Gray, Medium-Stiff to Very Stiff, w/ Sand *(continued)* LL=31.4, PL=17.4, PI=14	3		
	3 3	0.5 P	24
	5		
	3 3	0.8 P	21
-25	4		
	3 3	1.3 P	19
	5		
	7 18	>4.5 P	17
512.6 SHALE-Dark Gray, Very Stiff to Hard -30	15		
	37 50/4"	2.5 P	14
Becomes Gray			
-35	40		
	50/3.5" -	-	9
504.6 End of Boring			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

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Springfield, Illinois

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PLOT DATE = 10/18/2023	CHECKED - CZ	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS
STRUCTURE NO. 061-2400
SHEET 4 OF 4 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FORBES 2022	MARION	120	87
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			

Benchmark: BM L1 – Chiseled "□" on concrete curb at northwest corner of the bridge. Elev. 523.19

Existing Structure: Structure Number 061-9900, built in 1963 is a single span PPC I-Beam bridge supported on closed concrete abutments. The deck slab has no overlay and a steel plate beam guardrail is mounted to the outside face of the bridge deck. The face to face rail width is 26 feet and the bridge measures 74'-3" back to back abutments with no skew. There are 20 foot long approach slabs at each end of the bridge with a bituminous overlay, which narrow the roadway to 21 feet. The roadway will be closed to traffic during construction.

SCOPE OF WORK

1. Replace the existing approach slab at each end of the bridge.
2. Replace the existing expansion joints with strip seal expansion joints while replacing adjacent deck slab concrete.
3. Perform bridge deck grooving on new deck and approach driving surfaces.
4. Apply Protective Coat to top and inside surfaces of new concrete deck and approaches.
5. Remove the abandoned utility conduit on the south face of the bridge.
6. Remove the brackets attached to the rail post on each face of the bridge.
7. Clean and paint the existing steel rail posts and anchorage spacers.
8. Perform repairs to the existing guardrail approaching the bridge.
9. Perform minor repairs to broken sections of fencing.

INDEX OF SHEETS

DESIGN SPECIFICATIONS

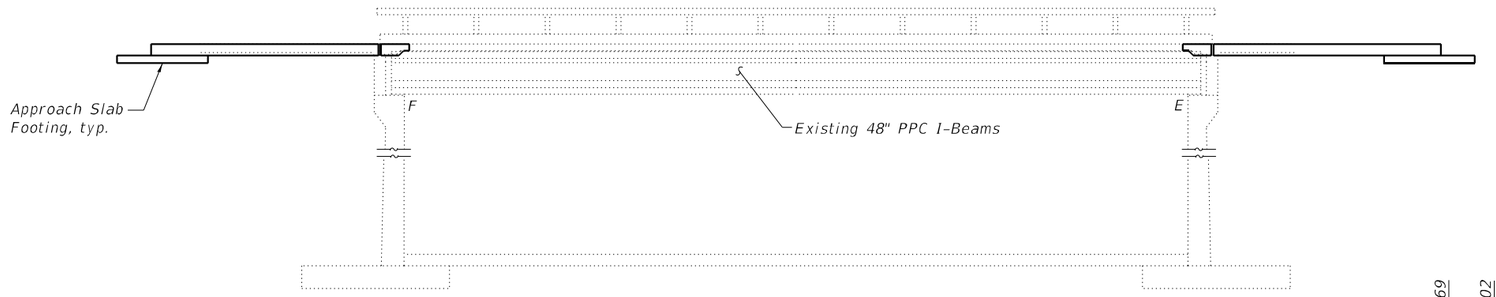
(New Construction)
2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

DESIGN STRESSES

FIELD UNITS – NEW CONSTRUCTION
f'c = 4,000 psi (Superstructure)
f'c = 3,500 psi (Substructure)
fy = 60,000 psi (Reinforcement)

LOADING HS-15

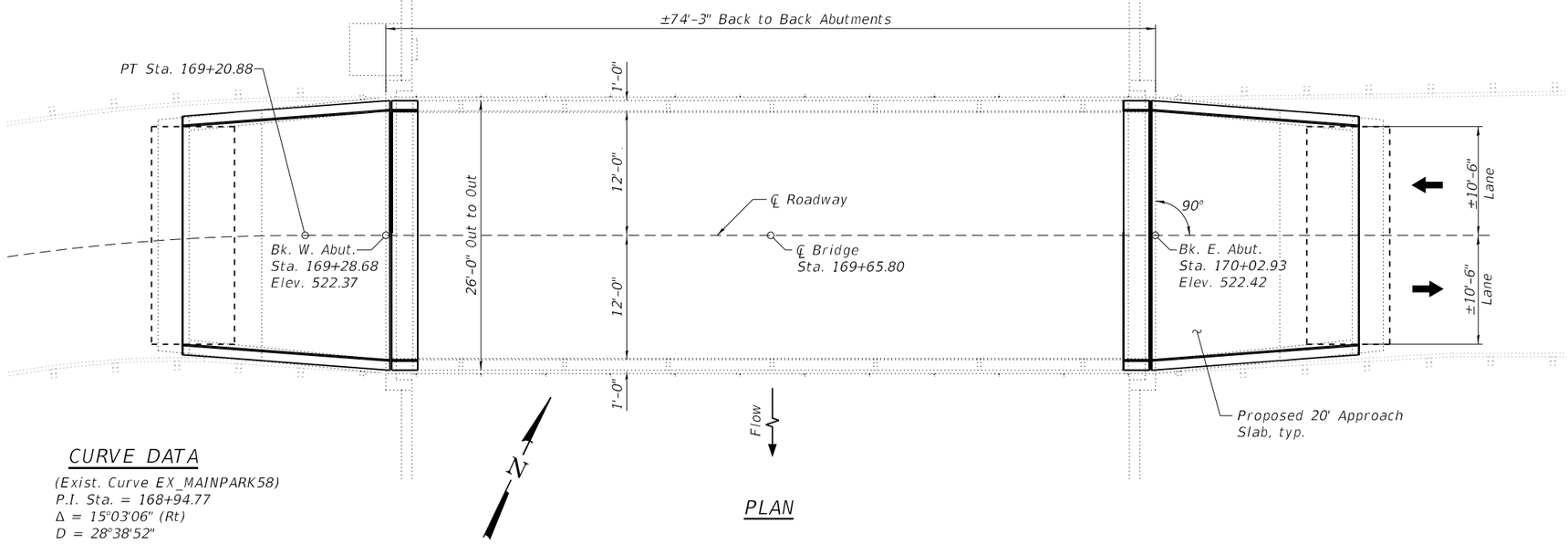
(Original Construction)



ELEVATION

PROFILE GRADE

(Along ℄ Main Park Road)



PLAN

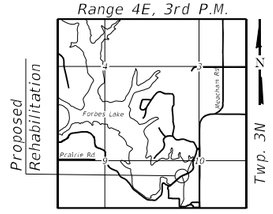
CURVE DATA

(Exist. Curve EX_MAINPARK58)
P.I. Sta. = 168+94.77
Δ = 15°03'06" (Rt)
D = 28°38'52"
R = 200.00'
T =26.42'
L = 52.54'
E = 1.74'
P.C. Sta. = 168+68.34
P.T. Sta. = 169+20.88

MICHAEL T. HALEY 081-005991 CHATHAM
LICENSED STRUCTURAL ENGINEER ★ STATE OF ILLINOIS ★

Michael T. Haley 09/05/2023

Michael T. Haley Date
Licensed Structural Engineer
State of Illinois No. 081-005991
Expires 11/30/2024



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
MAIN PARK ROAD OVER SPILLWAY
STEPHEN FORBES STATE PARK
SECTION FORBES 2022
MARION COUNTY
STATION 169+65.80
STRUCTURE NO. 061-9900

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 8 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FORBES 2022	MARION	120	88
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			

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GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.

2. 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 the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

3. Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

4. Cost of removal and disposal of existing expansion joints shall be included in the cost of Concrete Removal.

5. Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the concrete adjacent to joints is poured at an ambient temperature other than 50°F.

6. Expansion joints shall be fabricated to conform to the existing cross slope of the bridge.

7. The Contractor shall exercise care during removal of existing joints to ensure that the slab, beams, and diaphragms' integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams and diaphragms caused by their operation as directed by the Engineer at no additional cost to the Department.

8. Cleaning and painting of the existing steel handrail shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All railing shall be cleaned per Near White Blast Cleaning (SSPC-SP10) and shall be painted according to the requirements of Organic Zinc-Rich / Epoxy / Urethane paint system. The color of the final finish coat for all steel surfaces shall be Gray, Munsell No 5B 7/1.

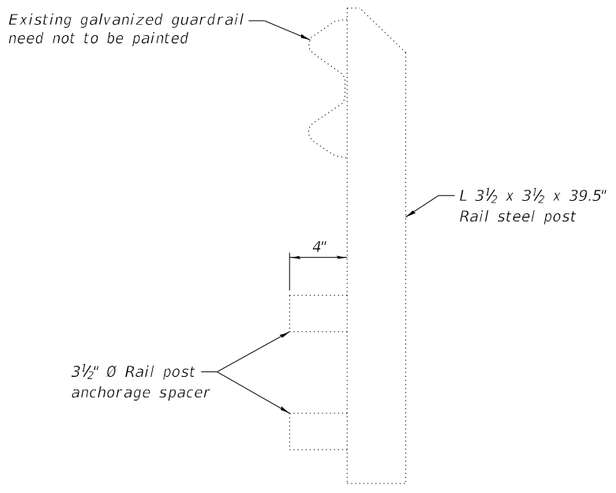
9. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

10. Original bridge plans were not available. Reinforcement locations are assumed based on standards.

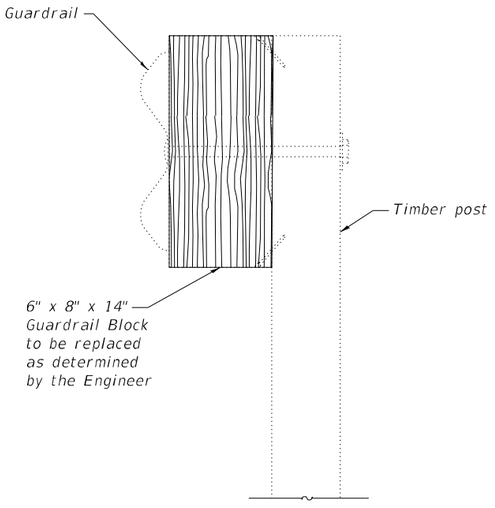
11. Repair areas shown are estimated. The Engineer shall document actual locations of repairs in the field.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	4.8	-	4.8
Concrete Structures	Cu. Yd.	-	10.4	10.4
Concrete Superstructure	Cu. Yd.	4.8	-	4.8
Bridge Deck Grooving	Sq. Yd.	104	-	104
Protective Coat	Sq. Yd.	114	-	114
Concrete Superstructure (Approach Slab)	Cu. Yd.	38.7	-	38.7
Cleaning and Painting Steel Bridge No. 1	L. Sum	1	-	1
Reinforcement Bars, Epoxy Coated	Pound	13,870	1,810	15,680
Preformed Joint Strip Seal	Foot	50	-	50
Chain Link Fence, 4'	Foot	20	-	20
Guardrail Blocks	Each	29	-	29
Remove Existing Conduit Attached to Structure	Foot	67	-	67
Approach Slab Removal	Sq. Yd.	108	-	108
Containment and Disposal of Lead Paint Cleaning Residues No. 1	L. Sum	1	-	1



STEEL PAINTING DETAILS



GUARDRAIL TIMBER BLOCKS REPLACEMENT

(29 locations)

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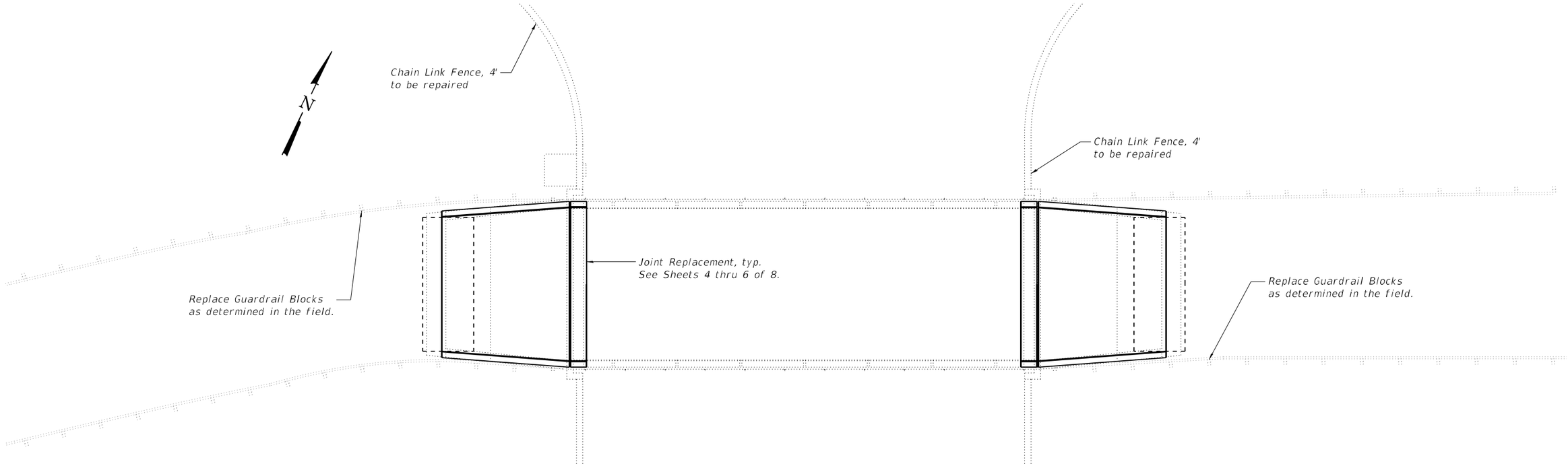
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

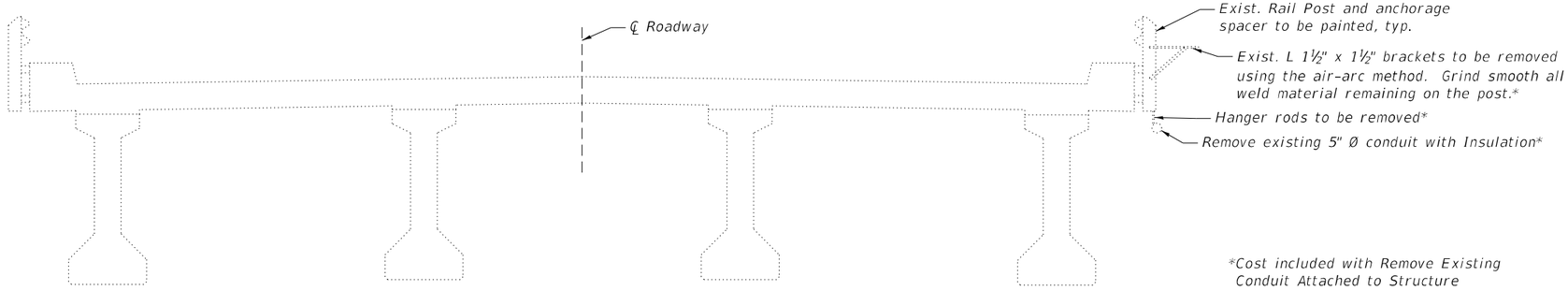
GENERAL DATA
STRUCTURE NO. 061-9900
SHEET 2 OF 8 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FORBES 2022	MARION	120	89
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			



PLAN

Note:
Portions of the existing chain link fence require repairs, including re-attaching posts or re-assembling posts, rails or fencing. Cost of repairs and associated material shall be included with Chain Link Fence 4'.



*Cost included with Remove Existing Conduit Attached to Structure

CROSS SECTION
(Looking East)

BILL OF MATERIAL

Item	Unit	Total
Chain Link Fence 4'	Foot	20
Guardrail Blocks	Each	29
Remove Existing Conduit Attached to Structure	Foot	67

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Springfield, Illinois

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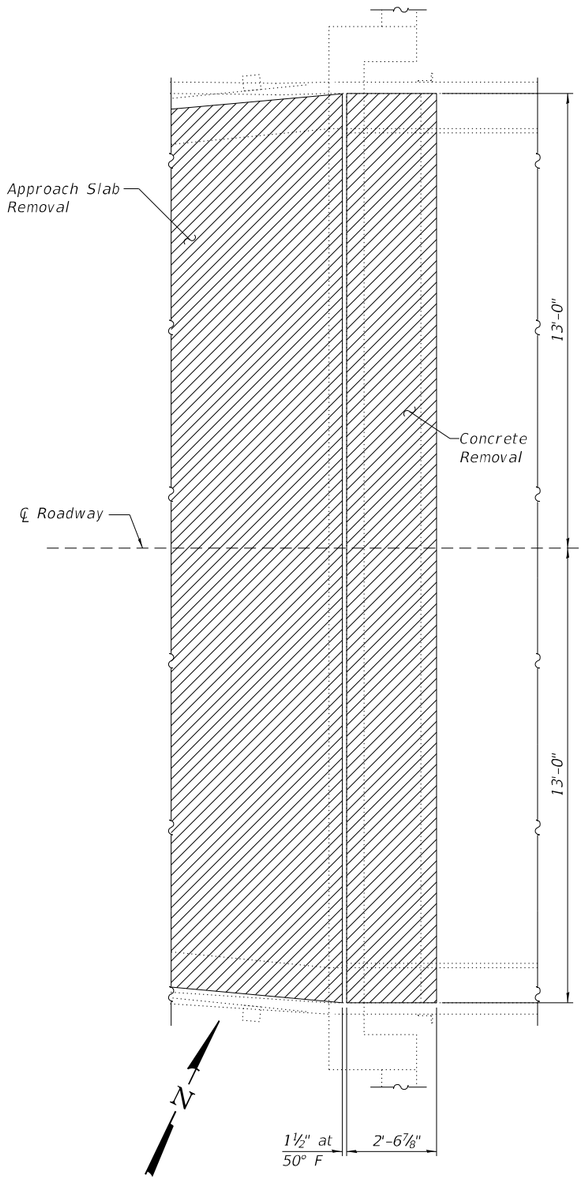
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

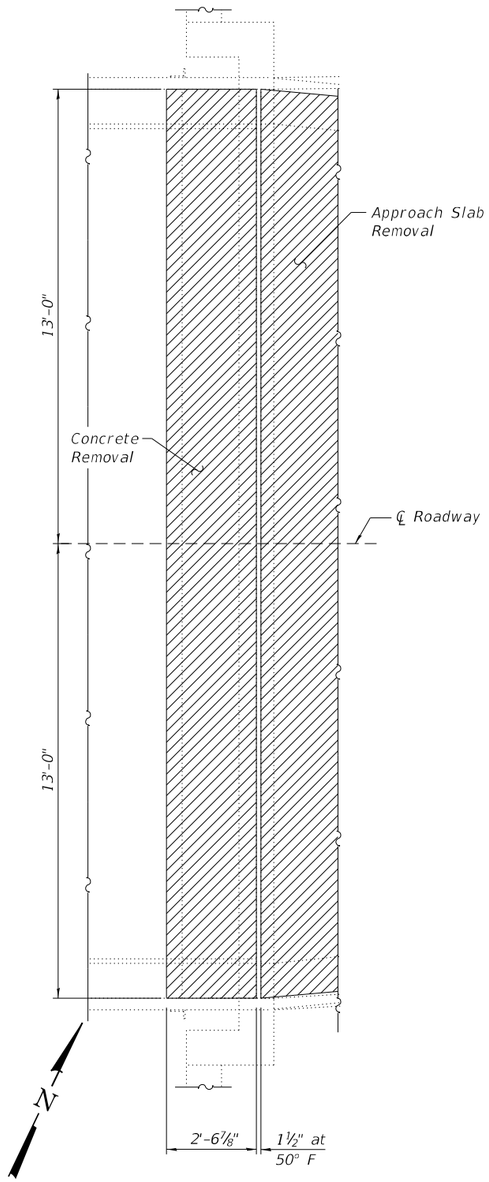
BRIDGE REPAIR PLAN
STRUCTURE NO. 061-9900
SHEET 3 OF 8 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FORBES 2022	MARION	120	90
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			

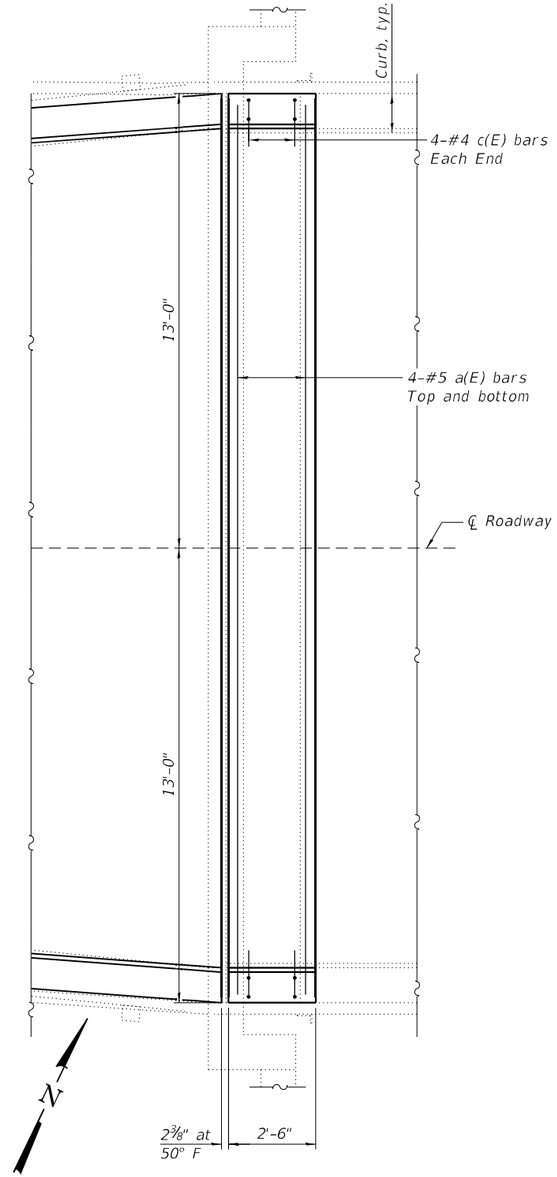
Notes:
See sheets 7 and 8 of 8 for approach slab details.
See sheet 5 of 8 for sections.



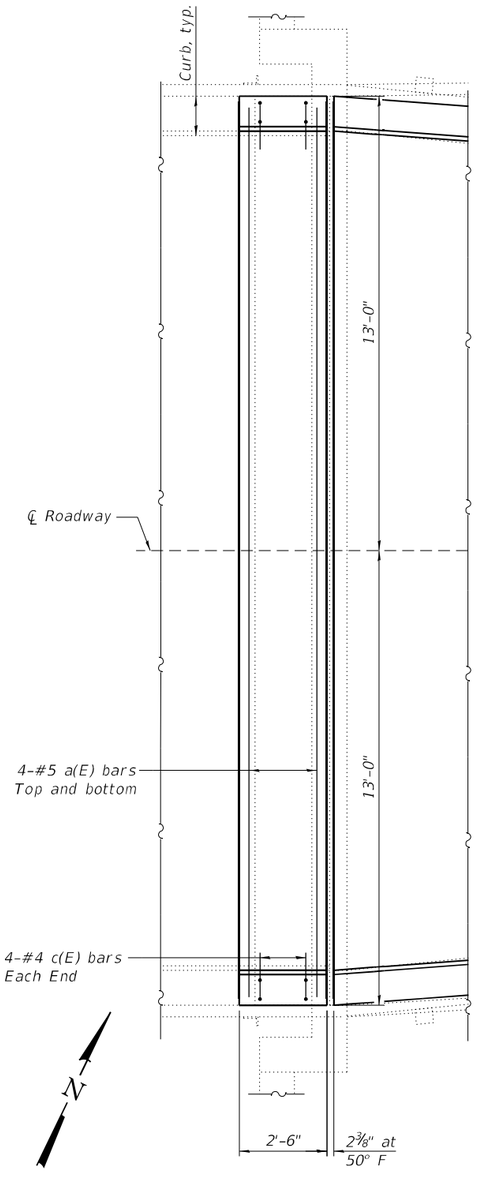
JOINT REMOVAL AT WEST ABUTMENT



JOINT REMOVAL AT EAST ABUTMENT



JOINT REPLACEMENT AT WEST ABUTMENT



JOINT REPLACEMENT AT EAST ABUTMENT

(Sheet 1 of 2)

LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME =	DESIGNED - MS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOINT REPLACEMENT DETAILS STRUCTURE NO. 061-9900
		CHECKED - CZ	REVISED -		
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	PLOT DATE = 10/18/2023	CHECKED - MTH	REVISED -		SHEET 4 OF 8 SHEETS

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

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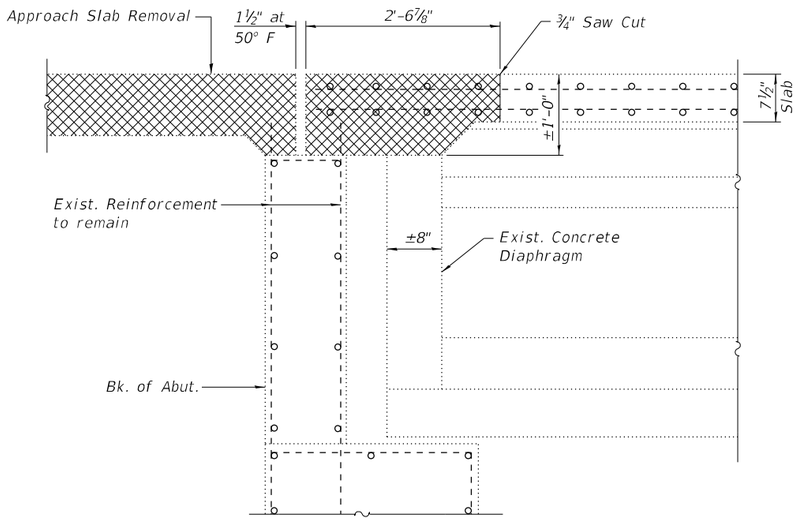
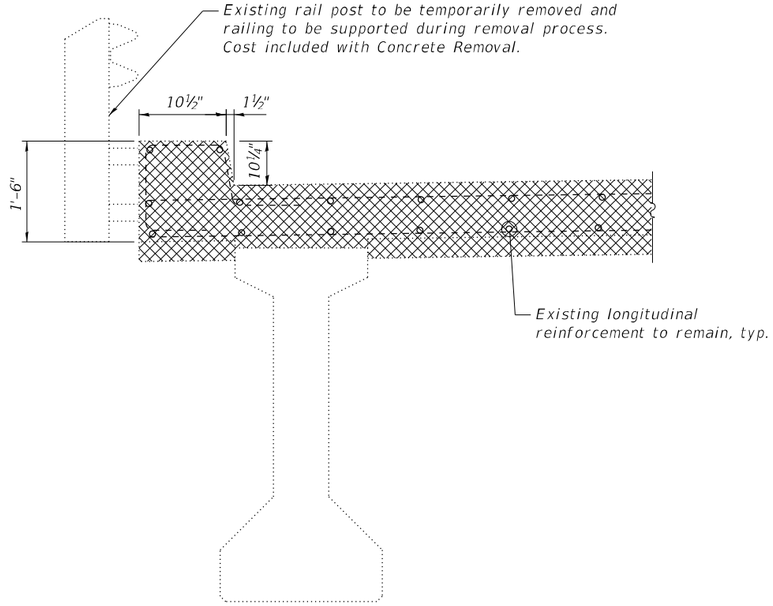


SECTION THRU JOINT AT ABUTMENTS

(Showing Removal)



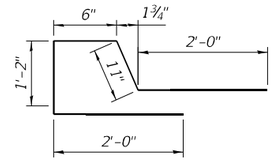
SECTION THRU CURB AT JOINT

(Showing Removal)

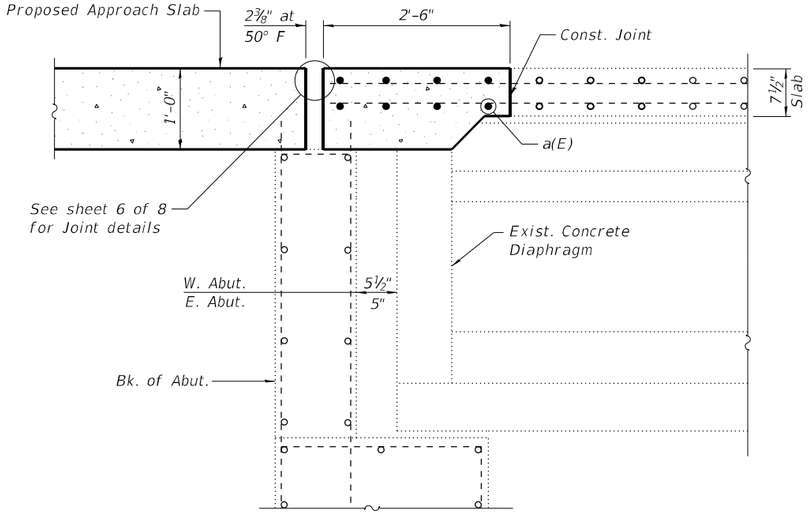
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	16	#5	25'-8"	
c(E)	16	#4	6'-7"	
Concrete Removal			Cu. Yd.	4.8
Concrete Superstructure			Cu. Yd.	4.8
Reinforcement Bars, Epoxy Coated			Pound	500

Notes:
Cross-hatched areas indicate limits of Concrete Removal.
For Approach slab Details see sheets 7 and 8 of 8.

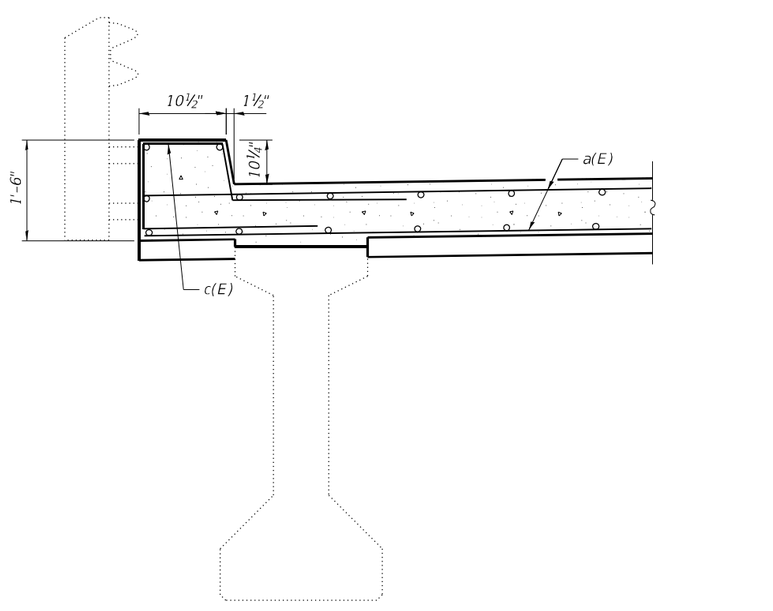


BAR c(E)



SECTION THRU JOINT AT ABUTMENTS

(Showing Proposed)



SECTION THRU CURB AT JOINT

(Showing Proposed)

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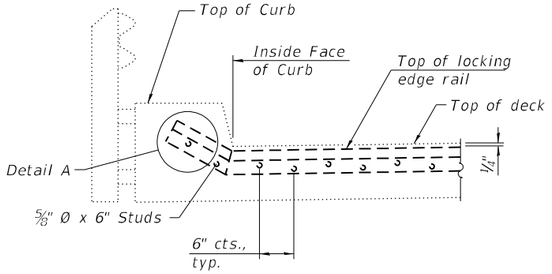
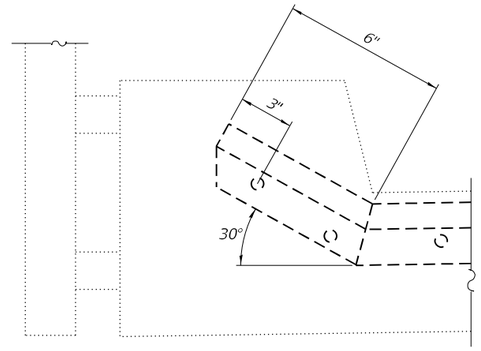
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REPLACEMENT DETAILS
STRUCTURE NO. 061-9900
SHEET 5 OF 8 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FORBES 2022	MARION	120	92
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		



SECTION AT CURB



DETAIL A

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of ¼". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

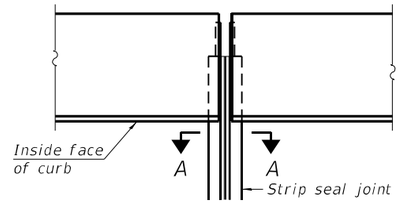
The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4½" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

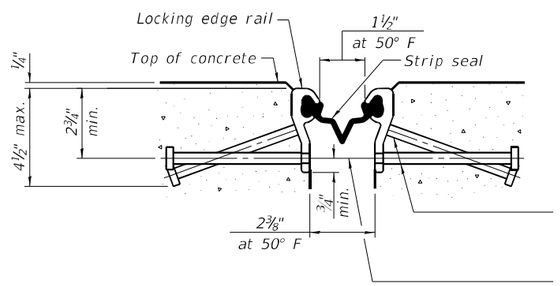
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

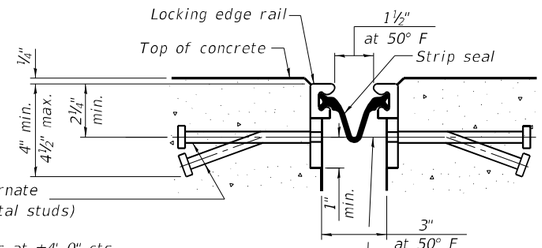
The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and curb lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required.



PLAN AT CURB



SHOWING ROLLED RAIL JOINT



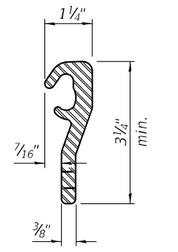
SHOWING WELDED RAIL JOINT

* ⅜" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

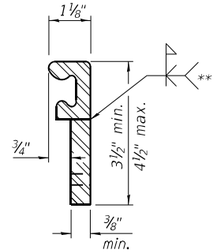
⅜" ϕ threaded rods in 7/16" ϕ holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



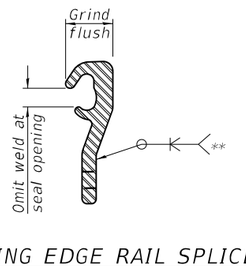
ROLLED (EXTRUDED) RAIL



WELDED RAIL

LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.

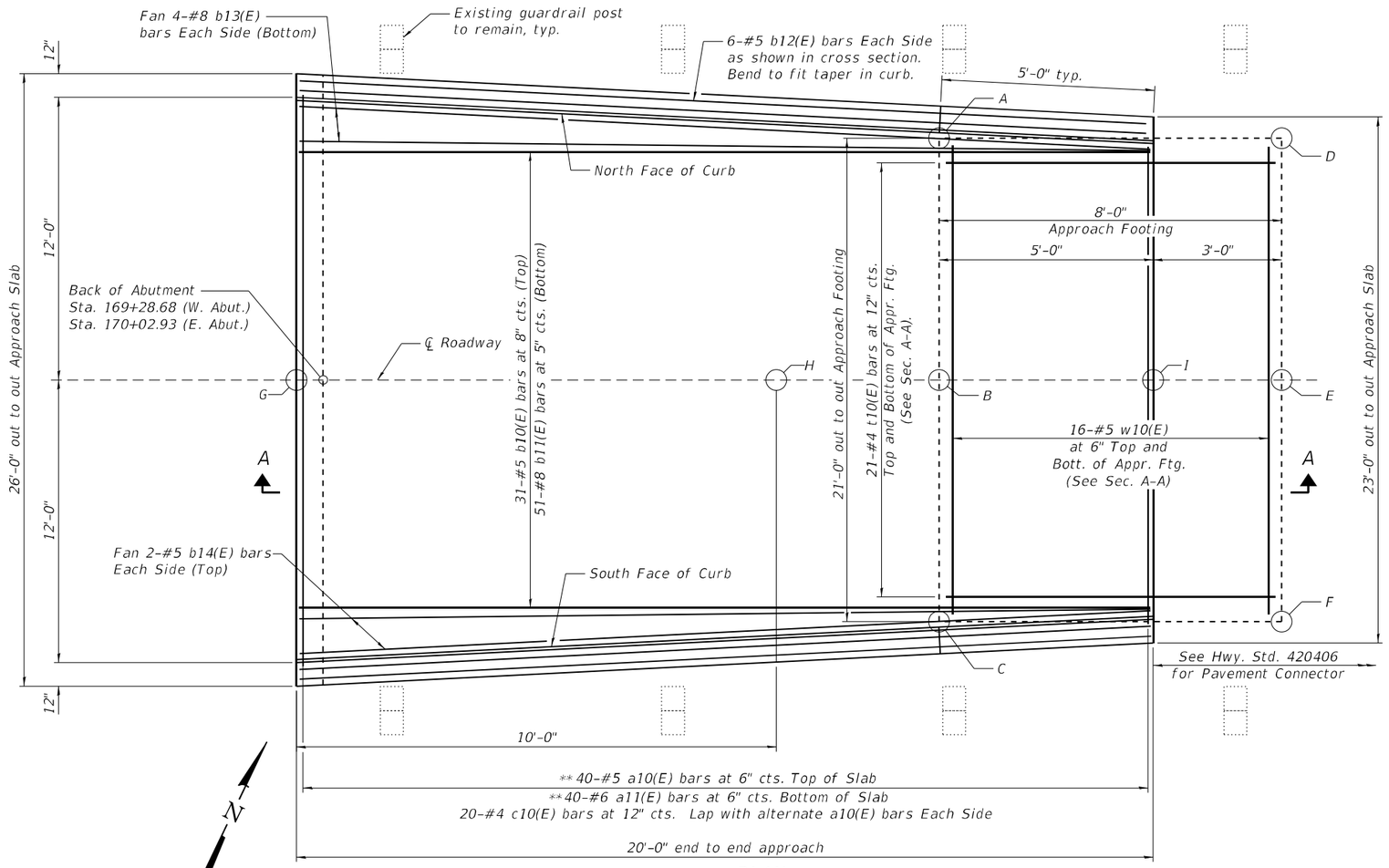


LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

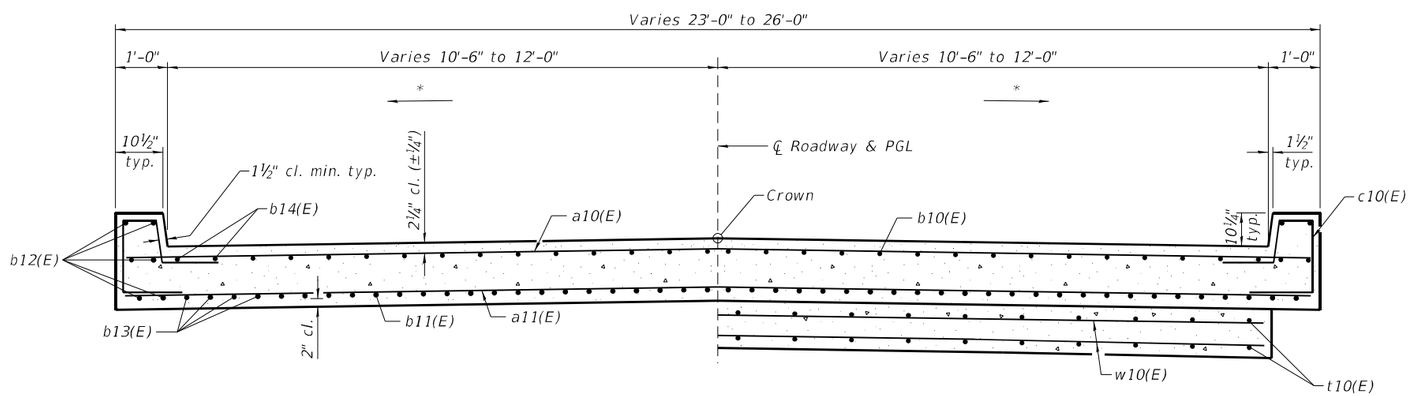
BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	50



PLAN

(East approach slab shown; West approach slab mirrored)



NEAR ABUTMENT

CROSS SECTION

(Looking East)

AT APPROACH FOOTING

* Cross slope to match existing bridge cross slope.

** See field cutting diagram on sheet 8 of 8.

WEST APPROACH TOP OF SLAB ELEVATIONS

Point	Station	Offset	Elevation
G	169+29.05	0.00	522.37
H	169+19.05	0.00	522.35
I	169+09.05	0.00	522.34

EAST APPROACH TOP OF SLAB ELEVATIONS

Point	Station	Offset	Elevation
G	170+02.55	0.00	522.42
H	170+12.55	0.00	522.39
I	170+22.55	0.00	522.37

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

West Approach		
Point/Location	Top	Bottom
A - Sta. 169+14.40; 10.61' Lt	521.01	520.18
B - Sta. 169+14.05; ℄	521.35	520.52
C - Sta. 169+13.68; 10.38' Rt	521.01	520.18
D - Sta. 169+06.82; 11.02' Lt	521.00	520.17
E - Sta. 169+06.04; ℄	521.34	520.51
F - Sta. 169+05.26; 9.92' Rt	521.00	520.17
East Approach		
Point/Location	Top	Bottom
A - Sta. 170+17.55; 10.5' Lt	521.02	520.19
B - Sta. 170+17.55; ℄	521.38	520.55
C - Sta. 170+17.55; 10.5' Rt	521.02	520.19
D - Sta. 170+25.55; 10.5' Lt	521.00	520.17
E - Sta. 170+25.55; ℄	521.36	520.53
F - Sta. 170+25.55; 10.5' Rt	521.00	520.17

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 061-9900
SHEET 7 OF 8 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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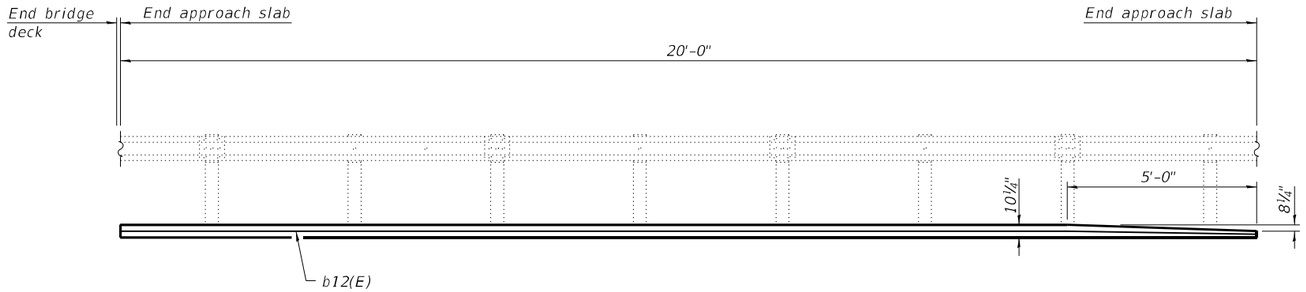
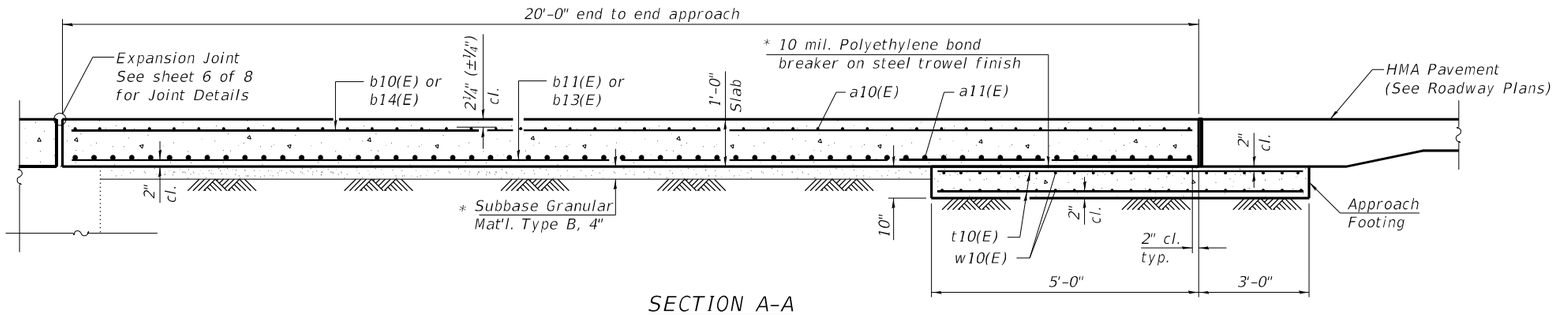
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			



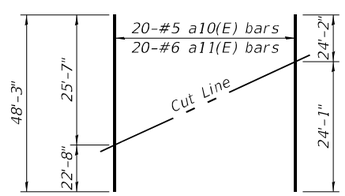
INSIDE ELEVATION OF RAILING AND CURB

Notes:
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
Approach footing concrete shall be paid for as Concrete Structures.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing and slab included with Concrete Structures.



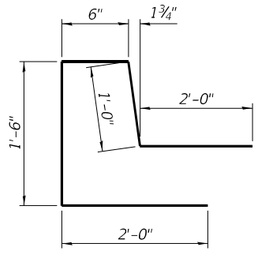
SECTION A-A

* Cost included with Concrete Superstructure (Approach Slab).



FIELD CUTTING DIAGRAM

Order a10(E) and a11(E) bars full length. Cut as shown and use remainder of bars in other half of the approach slab.



BAR c10(E)

TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	40	#5	48'-3"	
a11(E)	40	#6	48'-3"	
b10(E)	62	#5	19'-8"	
b11(E)	102	#8	19'-8"	
b12(E)	24	#5	19'-9"	
b13(E)	16	#8	18'-9"	
b14(E)	8	#5	18'-9"	
c10(E)	80	#4	7'-0"	
t10(E)	84	#4	7'-8"	
w10(E)	64	#5	20'-8"	
Concrete Superstructure (Approach Slab)		Cu. Yd.	38.7	
Concrete Structures		Cu. Yd.	10.4	
Reinforcement Bars, Epoxy Coated		Pound	15,180	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 061-9900
SHEET 8 OF 8 SHEETS

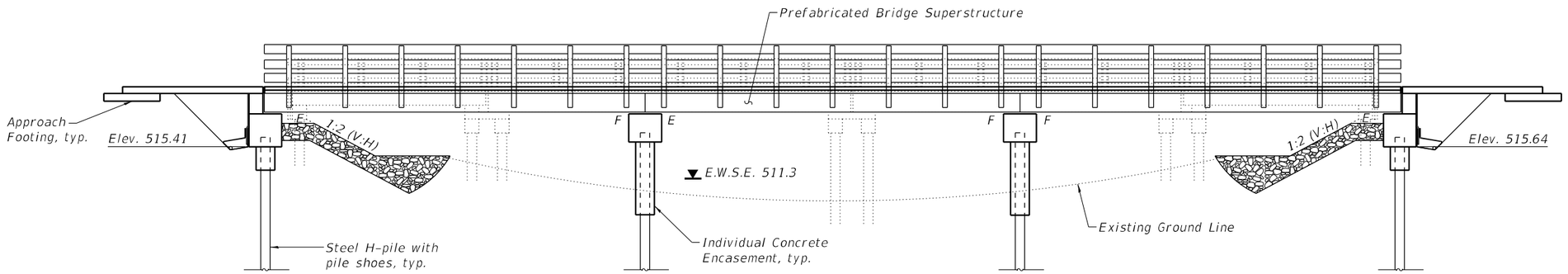
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FORBES 2022	MARION	120	95
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			

Benchmark: BM L6 – chiseled square on west side of foundation next to site map sign near office. Elev. 561.89.

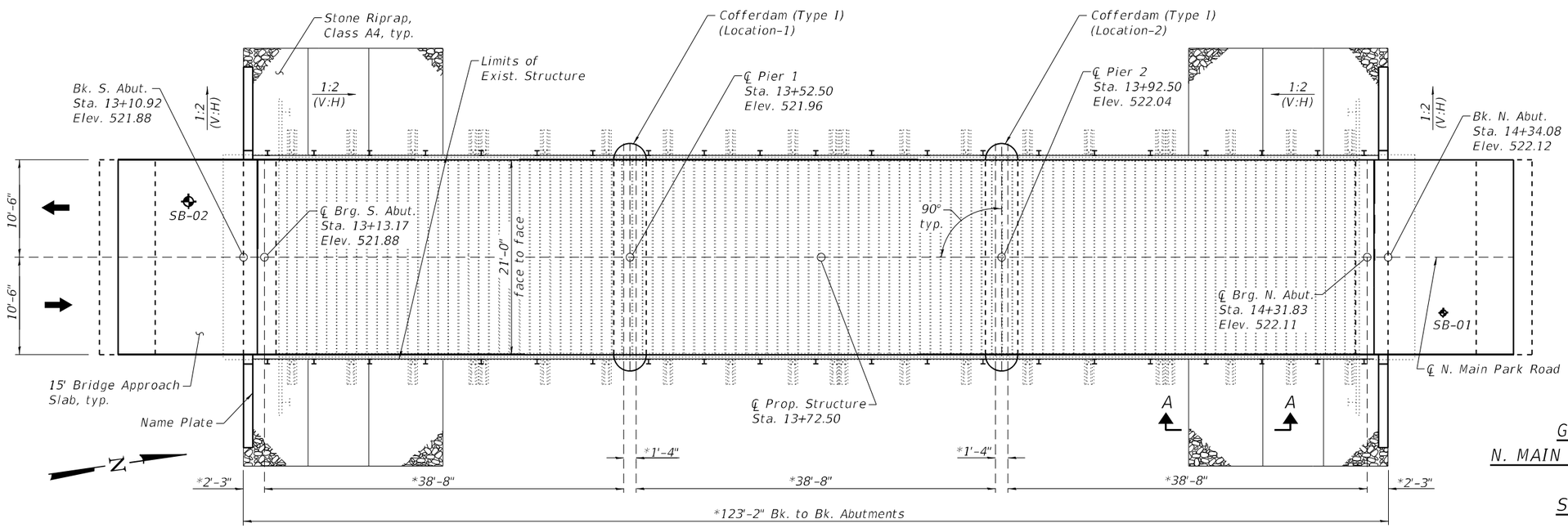
Existing Structure: SN 061-9920 was built in 1965. The structure Is a four-span continuous steel beam bridge with timber decking, supported on timber pile bent piers and abutments. The bridge measures 116'-3" back to back abutments and 20'-6" face to face curb, with no skew.

Bridge to be closed during construction.

Existing deck timbers, guardrail posts and guardrail shall be salvaged.



ELEVATION



*Dimensions are dependent on Manufacturer's final design. Contractor shall verify all dimensions and make adjustments as necessary, approved by the Engineer

PLAN

Note:
All structural steel shall be galvanized.

INDEX OF SHEETS

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

FIELD UNITS

f'c = 4,000 psi (Superstructure)
f'c = 3,500 psi (Substructure)
fy = 60,000 psi (Reinforcement)

PRE-ENGINEERED BRIDGE UNITS

fy = 50,000 psi (M270 Grade 50)

LOADING HL-93

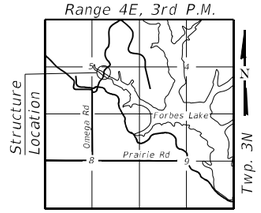
No allowance for future wearing surface.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.255g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.595g
Soil Site Class = D

LICENSED STRUCTURAL ENGINEER * MICHAEL T. HALEY 081-005991 CHATHAM * STATE OF ILLINOIS

Michael T. Haley 09/05/2023
Michael T. Haley Date
Licensed Structural Engineer
State of Illinois No. 081-005991
Expires 11/30/2024



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
N. MAIN PARK ROAD OVER MOUNTAIN BRANCH
THUNDER BRIDGE
STEPHEN FORBES STATE PARK
SECTION FORBES 2022
MARION COUNTY
STATION 13+72.50
STRUCTURE NO. 061-0400

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PLOT DATE = 10/18/2023	CHECKED - CL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 13 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FORBES 2022	MARION	120	96
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		

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GENERAL NOTES

1. No field welding is permitted except as specified in the contract documents.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. All bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.
4. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
5. Fasteners shall be mechanically galvanized high-strength bolts in accordance with the requirements of Article 1006.08(a) of the Standard Specifications. Bolt size shall be determined by Superstructure Manufacturer.
6. The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR 3704 floodway construction permit number allowing permanent construction as shown in the contract plans.
7. Bridge section details and unfactored reaction table loads shown on these plans are for reference only. Prefabricated Bridge Superstructure manufacturer is responsible for superstructure details and design loads to the substructure.
8. The substructure is designed per the current AASHTO LRFD Bridge Design Specifications and is based on the assumed loads shown in the table. If the manufacturer's design exceeds those loads and/or the substructure needs to be adjusted to accommodate the superstructure chosen, then the Contractor shall submit the redesign to the Engineer for review and approval prior to ordering any material or starting construction. All design calculations, shop drawings and redesigned substructure drawings shall be sealed by a Structural Engineer licensed in the State of Illinois and shall be the responsibility of the Contractor.
9. Manufacturer shall provide the reinforced concrete deck design and submit shop drawings for review. Concrete overlay to be set on steel bridge planks. Reinforcement shall be epoxy coated. Contractor shall place the concrete overlay after superstructure is set. Cost of reinforced concrete overlay and associated design and submittals are included with Prefabricated Bridge Superstructure.
10. All temporary support systems, cribbing, crane platforms, and other temporary works necessary for the erection of the superstructure shall be included with the cost of Prefabricated Bridge Superstructure. Shop drawings or working drawings for all temporary works shall be submitted to the Engineer for approval.
11. Concrete Sealer shall be applied to the exposed faces of abutments.
12. Salvaged decking timbers, guardrail posts and guardrail shall be stockpiled at a location as directed by the Site Superintendent.

STA. 13+72.50
BUILT BY
STATE OF ILLINOIS
SECTION FORBES 2022
LOADING HL-93
STR. NO. 061-0400

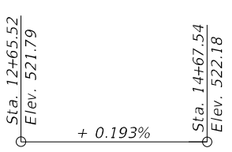
NAME PLATE

See Std. 515001

TOTAL BILL OF MATERIAL

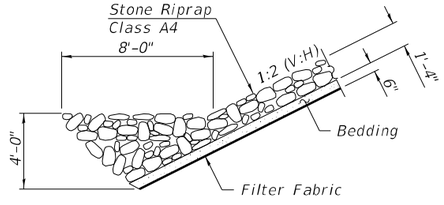
	ITEM	UNIT	SUPER	SUB	TOTAL
	Stone Riprap, Class A4	Sq. Yd.	-	202	202
	Filter Fabric	Sq. Yd.	-	202	202
	Removal of Existing Structures No.2	Each	1	-	1
	Structure Excavation	Cu. Yd.	-	68	68
	Cofferdam (Type I) (Location-1)	Each	-	1	1
	Cofferdam (Type I) (Location-2)	Each	-	1	1
	Concrete Structures	Cu. Yd.	-	54.6	54.6
	Concrete Encasement	Cu. Yd.	-	8.0	8.0
*	Protective Coat	Sq. Yd.	351	-	351
	Concrete Superstructure (Approach Slab)	Cu. Yd.	25.2	-	25.2
	Reinforcement Bars, Epoxy Coated	Pound	6,870	5,900	12,770
	Furnishing Steel Piles HP12x53	Foot	-	780	780
	Driving Piles	Foot	-	744	744
	Test Pile Steel HP12x53	Each	-	2	2
	Pile Shoes	Each	-	20	20
	Name Plates	Each	-	1	1
	Concrete Sealer	Sq. Ft.	-	204	204
	Geocomposite Wall Drain	Sq. Yd.	-	35	35
	Pipe Underdrains for Structures 4"	Foot	-	66	66
	Prefabricated Bridge Superstructure	Sq. Ft.	2,524	-	2,524
	Coarse Aggregate Backfill (Special)	Cu. Yd.	-	58	58
	Timber Railing	Foot	242	-	242

*Apply Protective Coat to concrete bridge surface and approach slabs



PROFILE GRADE

(Along ℄ State Park Road)



SECTION A-A

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	PLOT DATE = 10/18/2023	CHECKED - CL	REVISED -		SHEET 2 OF 13 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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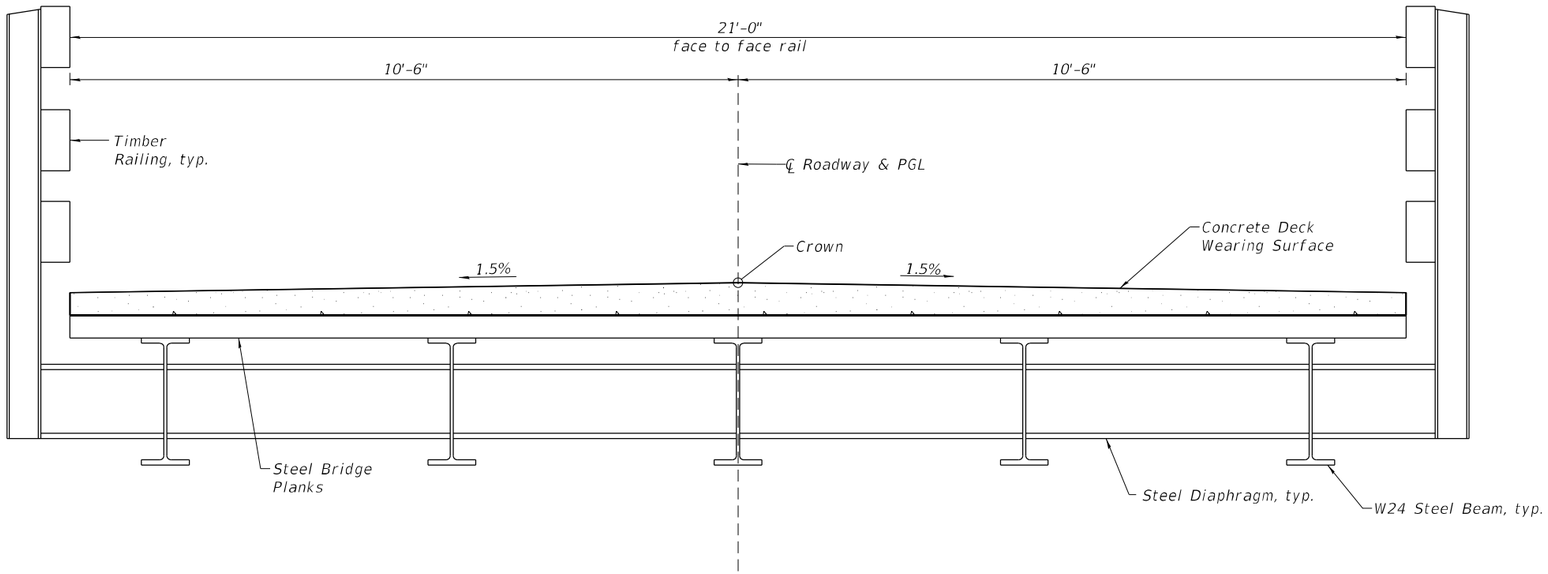
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		



BRIDGE CROSS SECTION

Notes:
Superstructure information is for reference only. Manufacturer is responsible for final design and details.
Minimum temperature reinforcement of As=0.20 sq. in per foot shall be provided in overlay.

BRIDGE REACTION TABLE

(40 ft Prefabricated Bridge Superstructure)

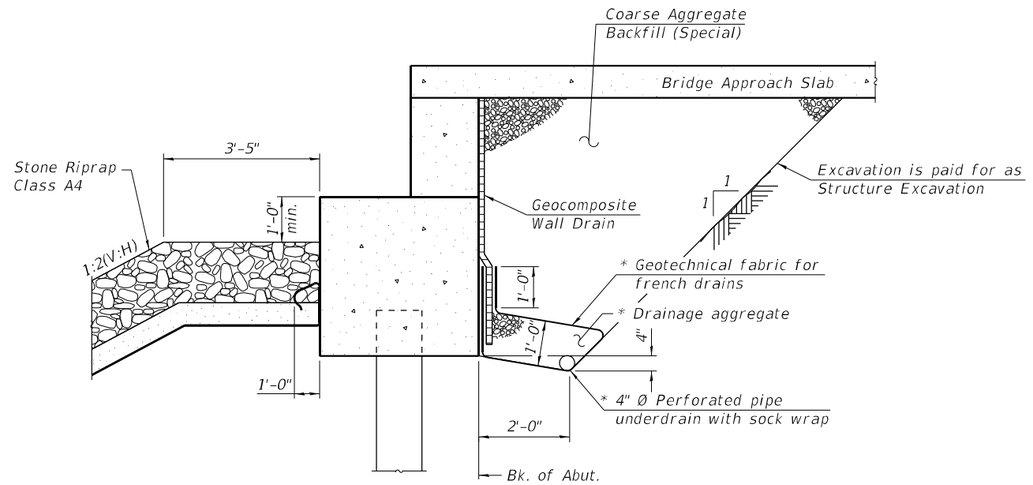
		Interior Beam			Exterior Beam		
	Load Category	P (kips)	H (kips)	L (kips)	P (kips)	H (kips)	L (kips)
**	Dead Load	10.42	–	–	8.97	–	–
	Live Load (no impact)	40.50	–	–	35.07	–	–
	Impact Load	10.87	–	–	9.42	–	–
	Thermal Load	–	–	2.05	–	–	2.05
	Braking Load	–	–	7.20	–	–	7.20
	Wind Load	-1.68	1.20	–	-1.68	1.20	–

** Includes Weight of concrete surface

TABLE DEFINITIONS

P – Vertical load at each support
H – Horizontal load at each support
L – Longitudinal load at each support
Positive – Downward load; Negative – Upward load

Note: All dimensions and values are subject to change after final design.



SECTION THRU ABUTMENT

* Included in the cost of Pipe Underdrains for Structures.

Note:
All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls or 2'-0" from the end of the wingwalls when the wings are parallel to the abutment. The pipe shall extend under the wingwall, if necessary, until intersecting the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).
Cost of concrete headwalls to be included with Pipe Underdrains for Structures.

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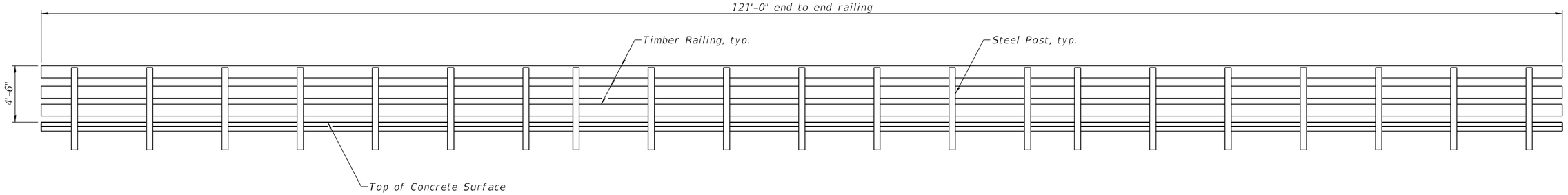
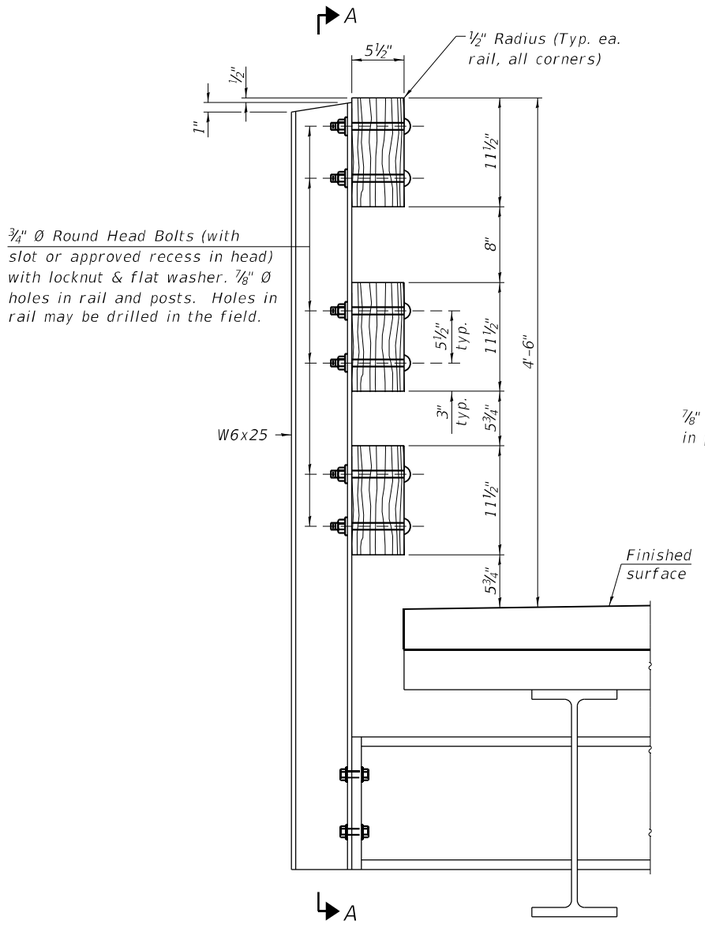
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE SECTION AND DETAILS
STRUCTURE NO. 061-0400
SHEET 3 OF 13 SHEETS

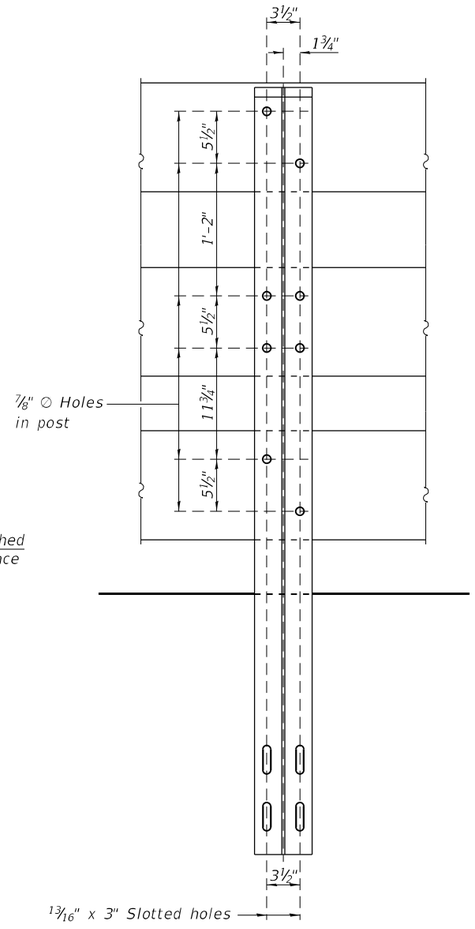
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FORBES 2022	MARION	120	98
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		



RAILING ELEVATION

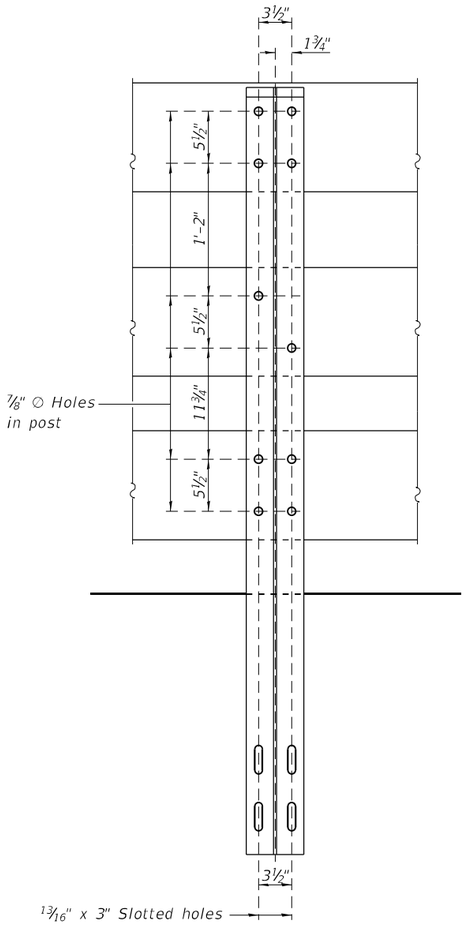


SECTION AT RAIL POST



SECTION A-A

***(Showing timber rail splice at middle rail)



SECTION A-A

***(Showing timber rail splice at top and bottom rails)

*** Stagger rail splices

Notes:

Timber rails are included with pay item Timber Railing. All other railing members and connections are included with Prefabricated Bridge Superstructure.

Rail post spacing to be coordinated with superstructure diaphragm spacing (6'-3" max.).

Railing connections to the superstructure shall be designed by the Manufacturer and detailed on the shop drawings. Connection design shall follow the same design specifications as the superstructure.

All wood rails shall comply with Article 1007.03 of the Standard Specifications and shall have a commercial grade of No. 1 or better.

All rails shall be rough cut. Dimensions of rails are net, not nominal dimensions.

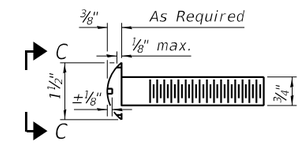
All rails shall be treated in accordance with Article 1007.12.

All steel posts shall be according to the requirements of AASHTO M-270, Grade 50.

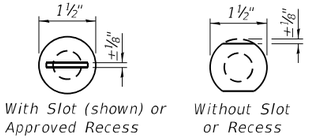
All posts shall be galvanized after shop fabrication in accordance with AASHTO M-111 and ASTM A-385.

All bolts, nuts, washers and lock washers shall be galvanized in accordance with AASHTO M-232 in accordance with Article 1007.12.

All round head bolts shall be ASTM A307 with locknuts according to ASTM A563 grade A.



ROUND HEAD BOLT DETAIL



With Slot (shown) or Approved Recess

Without Slot or Recess

VIEW C-C

BILL OF MATERIAL

Item	Unit	Quantity
Timber Railing	Foot	242

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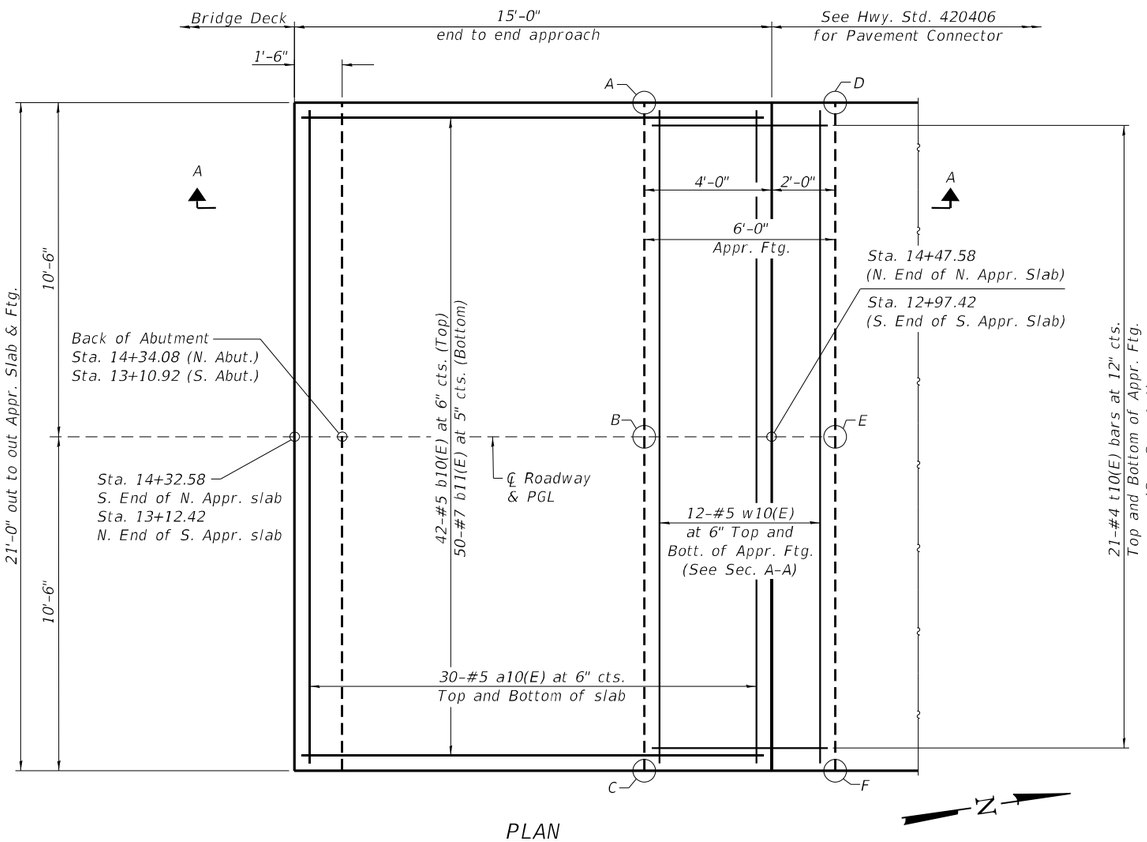
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

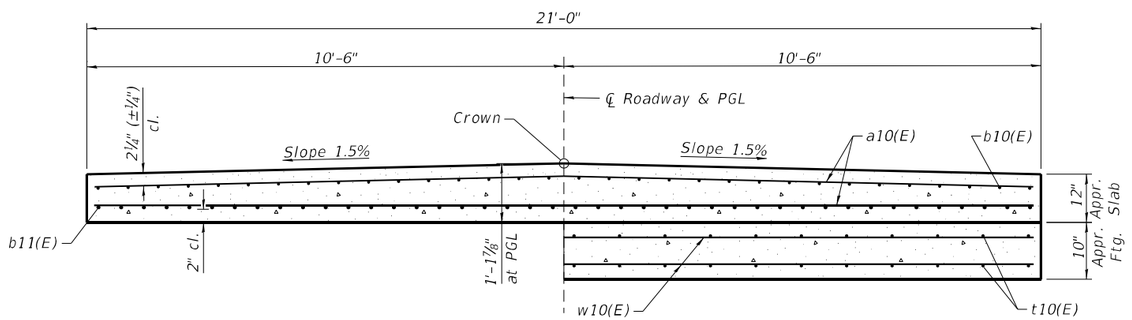
TIMBER RAILING DETAILS
STRUCTURE NO. 061-0400
SHEET 4 OF 13 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FORBES 2022	MARION	120	99
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		



PLAN

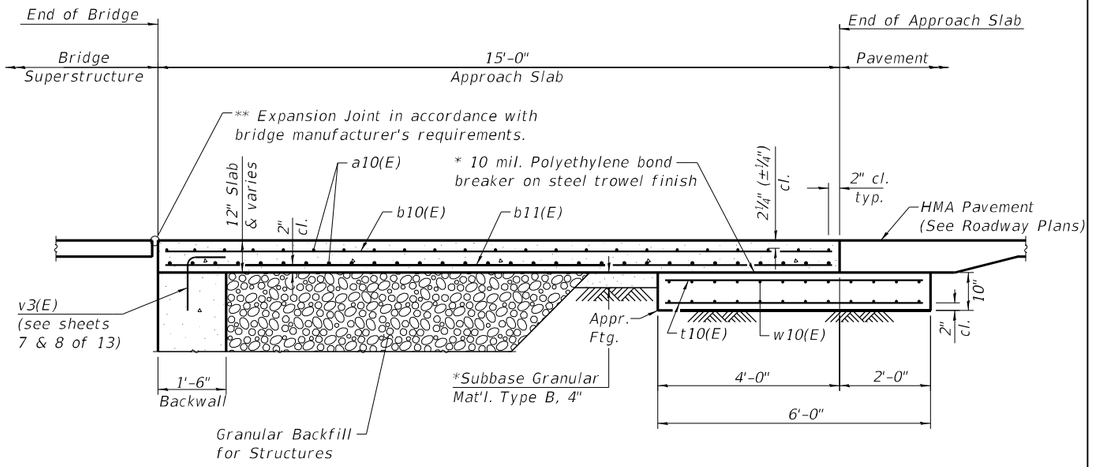
(North Approach shown, South Approach similar by 180° rotation)



NEAR ABUTMENT — AT APPROACH FOOTING

CROSS SECTION

(Looking North)



SECTION A-A

TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING

South Approach			North Approach		
Point	Top	Bottom	Point	Top	Bottom
A	520.70	519.87	A	520.98	520.14
B	520.70	519.87	B	520.98	520.14
C	520.70	519.87	C	520.98	520.14
D	520.69	519.86	D	520.99	520.15
E	520.69	519.86	E	520.99	520.15
F	520.69	519.86	F	520.99	520.15

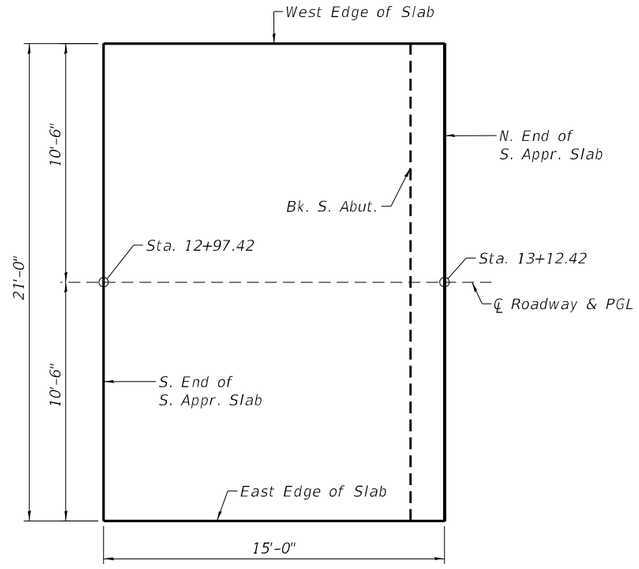
* Cost included with Concrete Superstructure (Approach slab).

** Cost included with Prefabricated Bridge Superstructure.

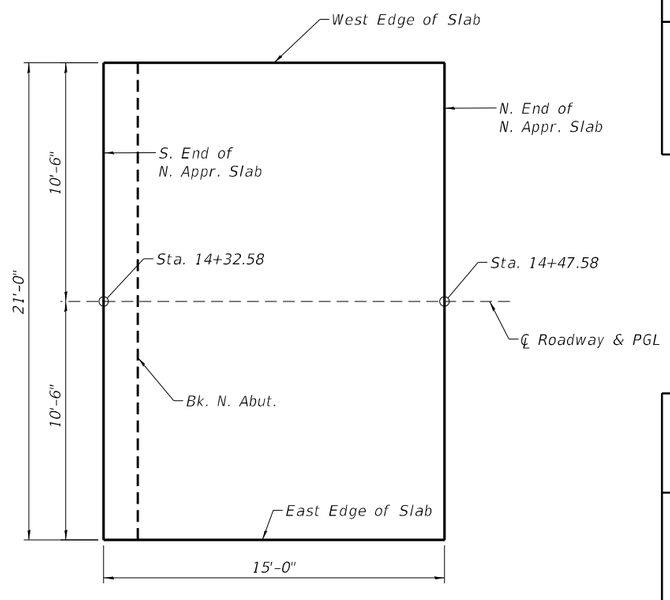
TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	120	#5	20'-8"	
b10(E)	84	#5	14'-8"	
b11(E)	100	#7	14'-8"	
t10(E)	84	#4	5'-8"	
w10(E)	48	#5	20'-8"	
Concrete Superstructure (Approach Slab)			Cu. Yd.	25.2
Concrete Structures			Cu. Yd.	7.8
Reinforcement Bars, Epoxy Coated			Pound	8,230

Notes:
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
Approach footing concrete shall be paid for as Concrete Structures.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
See sheet 3 of 13 for Granular Backfill for Structures and drainage treatment details.



SOUTH APPROACH - PLAN



NORTH APPROACH - PLAN

SOUTH APPROACH
WEST EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	12+97.42	-10.50	521.69
N. End of S. Appr. Slab	13+12.42	-10.50	521.72

NORTH APPROACH
WEST EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	14+32.58	-10.50	521.95
N. End of N. Appr. Slab	14+47.58	-10.50	521.98

SOUTH APPROACH
℄ ROADWAY & PGL

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	12+97.42	0.00	521.85
N. End of S. Appr. Slab	13+12.42	0.00	521.88

NORTH APPROACH
℄ ROADWAY & PGL

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	14+32.58	0.00	522.11
N. End of N. Appr. Slab	14+47.58	0.00	522.14

SOUTH APPROACH
EAST EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	12+97.42	10.50	521.69
N. End of S. Appr. Slab	13+12.42	10.50	521.72

NORTH APPROACH
EAST EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	14+32.58	10.50	521.95
N. End of N. Appr. Slab	14+47.58	10.50	521.98

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF APPROACH SLAB ELEVATIONS
STRUCTURE NO. 061-0400
SHEET 6 OF 13 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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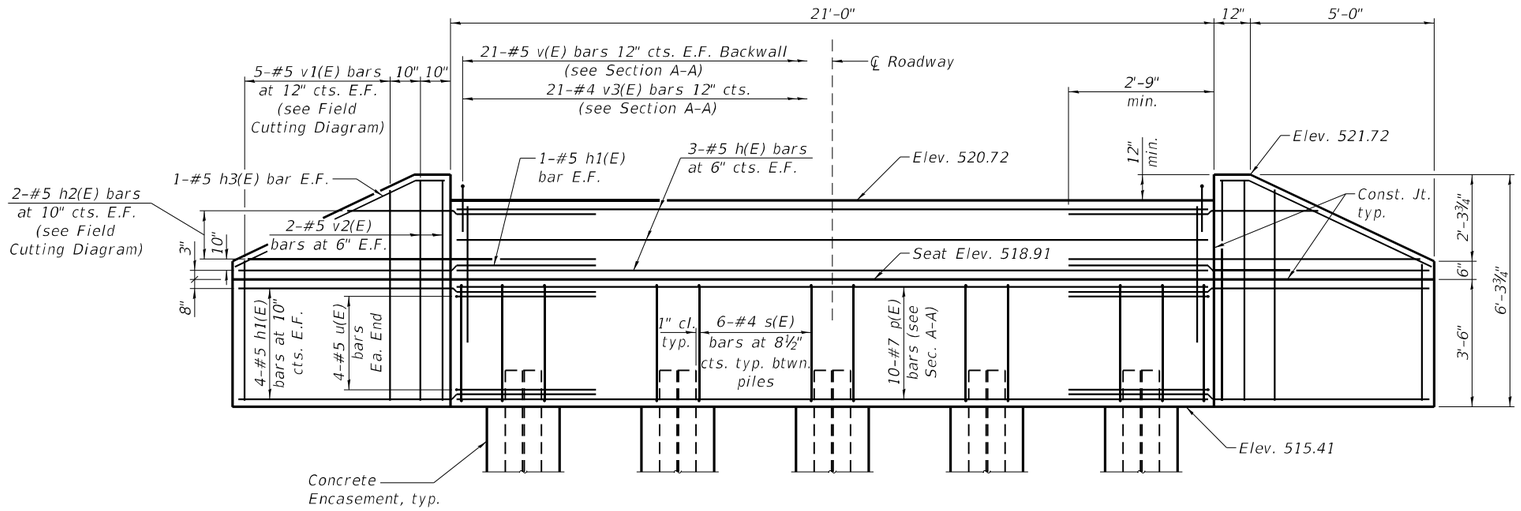
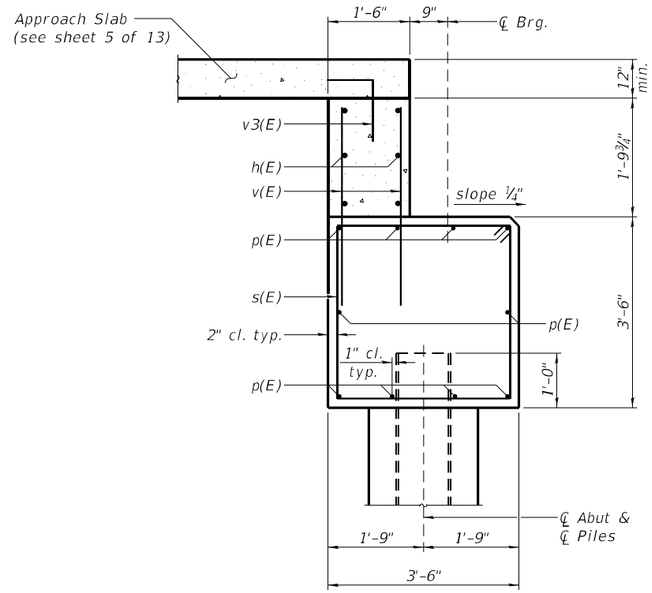
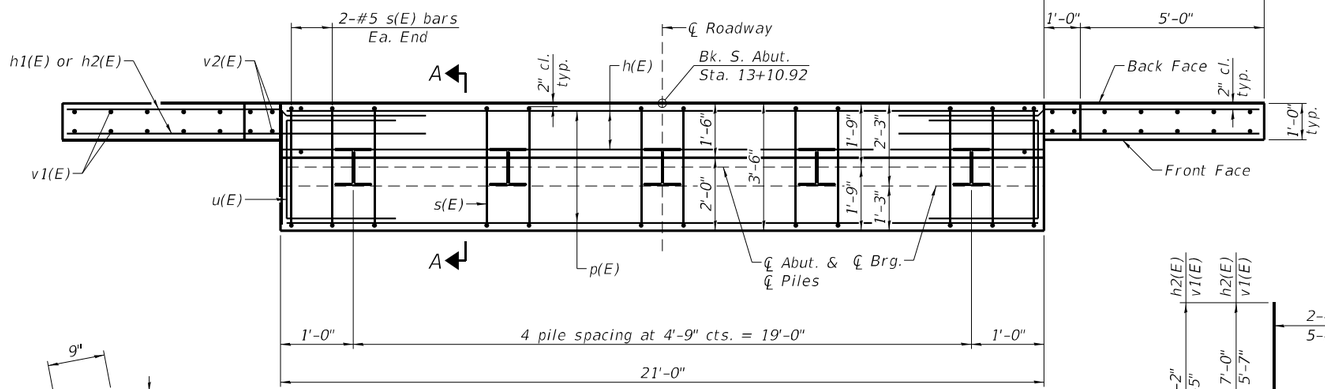
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		



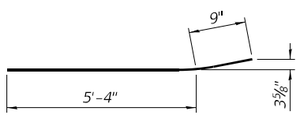
ELEVATION



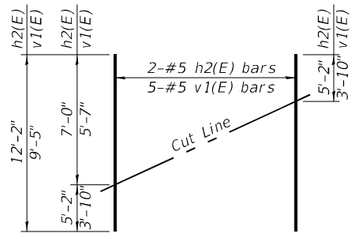
SECTION A-A



PLAN



BAR h3(E)



FIELD CUTTING DIAGRAM

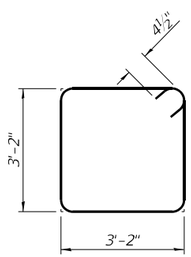
Order h2(E) and v1(E) full length. Cut as shown and use remainder of bars in opposite face.

SOUTH ABUTMENT BILL OF MATERIAL

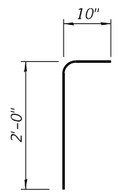
Bar	No.	Size	Length	Shape
h(E)	6	#5	20'-8"	
h1(E)	10	#5	8'-7"	
h2(E)	4	#5	12'-2"	
h3(E)	4	#5	6'-1"	
p(E)	10	#7	20'-8"	
s(E)	28	#4	13'-5"	
u(E)	8	#5	10'-3"	
v(E)	42	#5	3'-10"	
v1(E)	10	#5	9'-5"	
v2(E)	8	#5	5'-11"	
v3(E)	21	#4	2'-10"	
Structure Excavation		Cu. Yd.	34	
Concrete Structures		Cu. Yd.	14.1	
Concrete Encasement		Cu. Yd.	1.5	
Reinforcement Bars, Epoxy Coated		Pound	1,410	
Furnishing Steel Piles HP 12x53		Foot	180	
Driving Piles		Foot	176	
Test Pile, Steel HP 12x53		Each	1	
Pile Shoes		Each	5	

PILE DATA

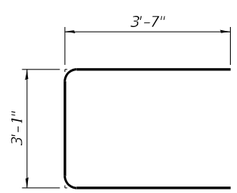
Type: HP12x53 with pile shoes
Nominal Required Bearing: 418 kips
Factored Resistance Available: 230 kips
Est. Length: 45 ft
No. Production Piles: 4
No. Test Piles: 1



BAR s(E)



BAR v3(E)



BAR u(E)

Notes:
Space reinforcement bars to miss anchor bolts.
For detail of piles, see sheet 11 of 13.
For typical sections thru abutment, see sheet 3 of 13.
Pile encasement needs to extend at least 2.5' below ground line. Cost to be included with Furnishing Steel Piles HP 12x53.
Abutment caps are designed for piles placed directly under beams.

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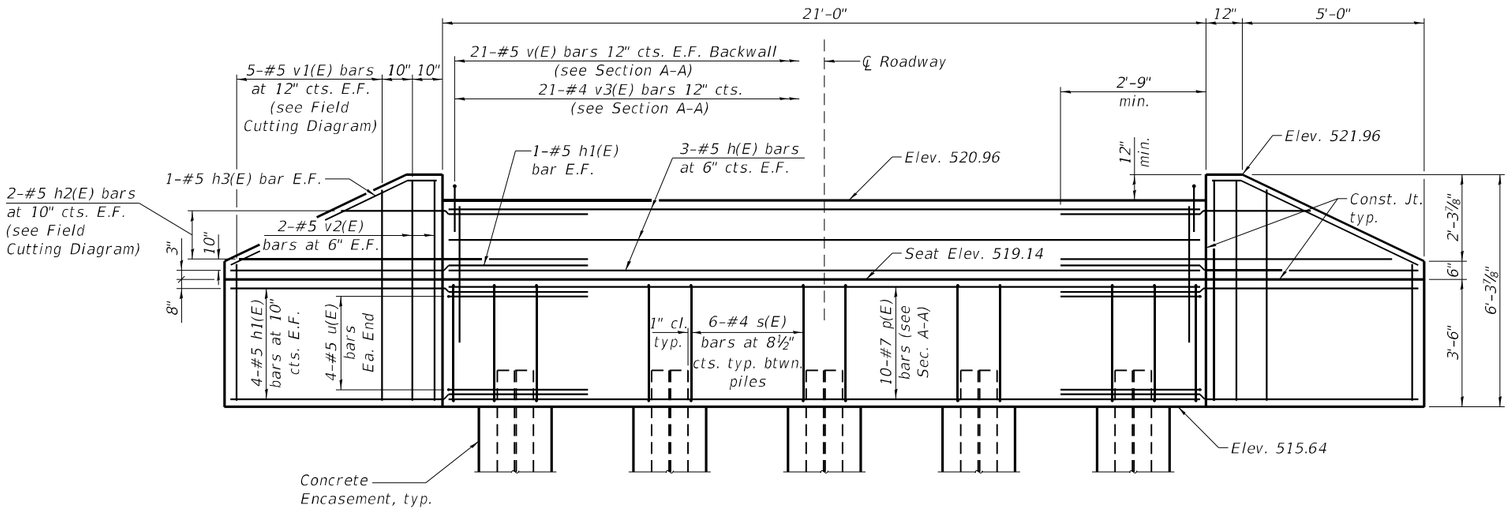
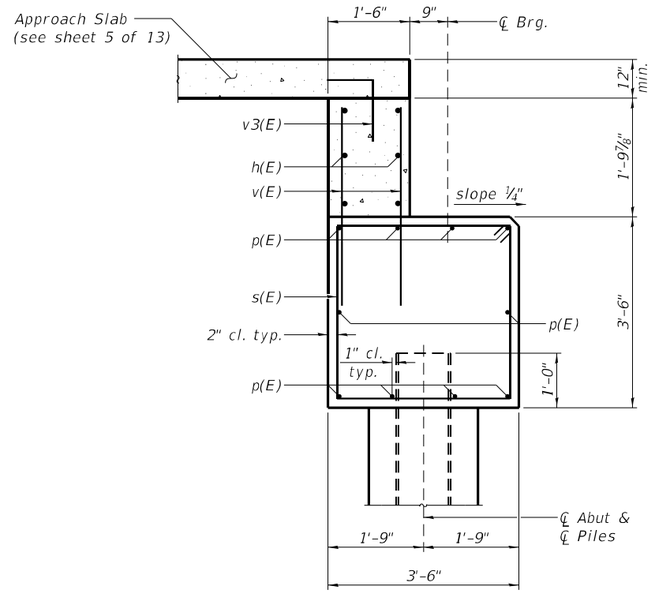
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT DETAILS
STRUCTURE NO. 061-0400
SHEET 7 OF 13 SHEETS

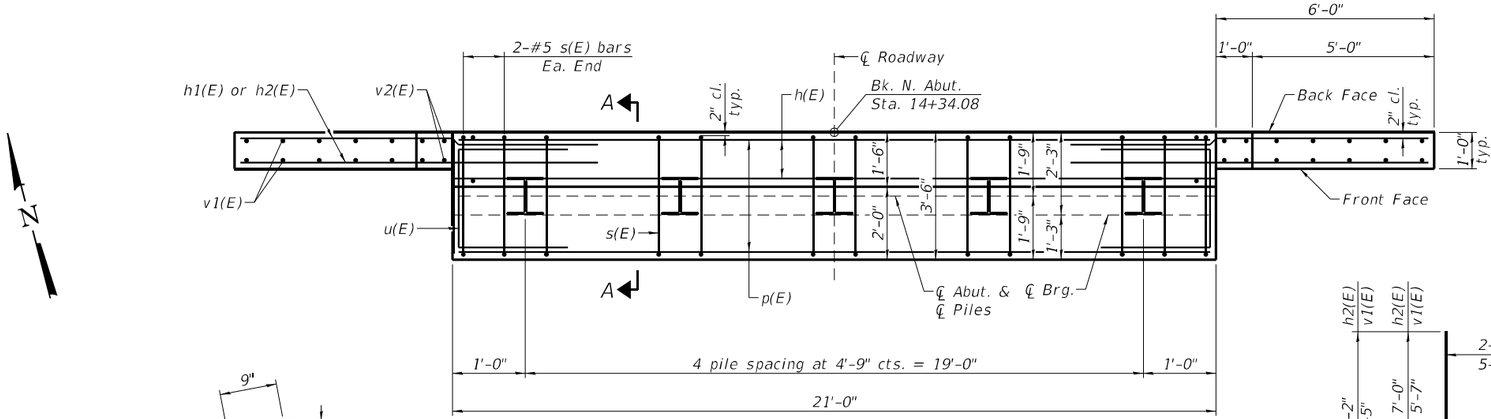
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FORBES 2022	MARION	120	102
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			



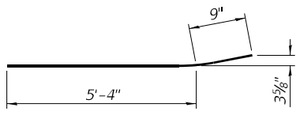
ELEVATION



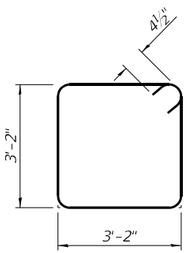
SECTION A-A



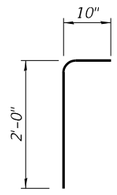
PLAN



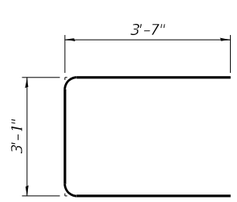
BAR h3(E)



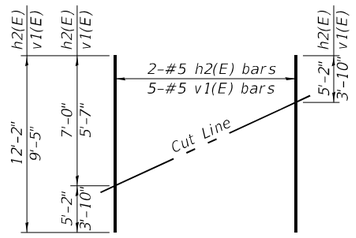
BAR s(E)



BAR v3(E)



BAR u(E)



FIELD CUTTING DIAGRAM

Order h2(E) and v1(E) full length. Cut as shown and use remainder of bars in opposite face.

PILE DATA

Type: HP12x53 with pile shoes
Nominal Required Bearing: 418 kips
Factored Resistance Available: 230 kips
Est. Length: 42 ft
No. Production Piles: 5
No. Test Piles: 0

Notes:

Space reinforcement bars to miss anchor bolts.

For detail of piles, see sheet 11 of 13.

For typical sections thru abutment, see sheet 3 of 13.

Pile encasement needs to extend at least 2.5' below ground line. Cost to be included with Furnishing Steel Piles HP 12x53.

Abutment caps are designed for piles placed directly under beams.

NORTH ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	6	#5	20'-8"	
h1(E)	10	#5	8'-7"	
h2(E)	4	#5	12'-2"	
h3(E)	4	#5	6'-1"	
p(E)	10	#7	20'-8"	
s(E)	28	#4	13'-5"	
u(E)	8	#5	10'-3"	
v(E)	42	#5	3'-10"	
v1(E)	10	#5	9'-5"	
v2(E)	8	#5	5'-11"	
v3(E)	21	#4	2'-10"	
Structure Excavation		Cu. Yd.	34	
Concrete Structures		Cu. Yd.	14.1	
Concrete Encasement		Cu. Yd.	1.5	
Reinforcement Bars, Epoxy Coated		Pound	1,410	
Furnishing Steel Piles HP 12x53		Foot	210	
Driving Piles		Foot	205	
Pile Shoes		Each	5	

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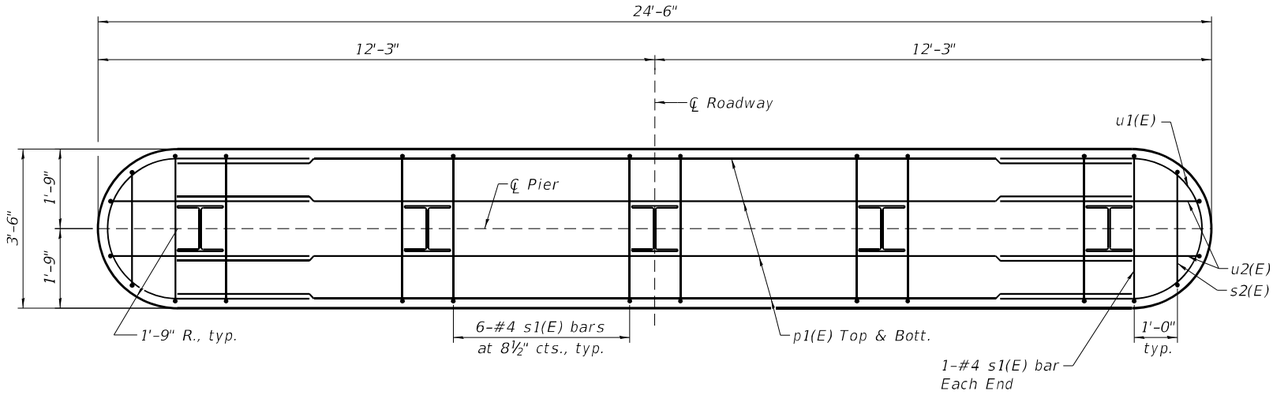
PLOT DATE = 10/18/2023	CHECKED - CL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

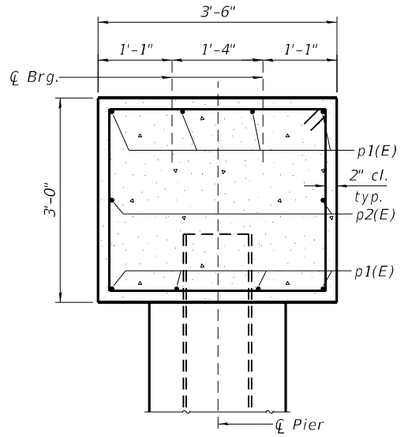
NORTH ABUTMENT DETAILS
STRUCTURE NO. 061-0400
SHEET 8 OF 13 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FORBES 2022	MARION	120	103
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			

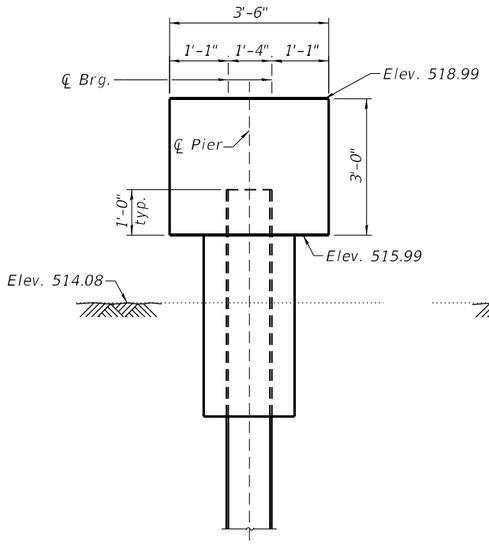
Notes:
Space reinforcement in cap to miss anchor bolts.
For details of piles, see sheet 11 of 13.
Pile encasement needs to extend at least 2.5' below ground line. Cost to be included with Furnishing Steel Piles HP 12x53.
Pier caps are designed for piles placed directly under beams.



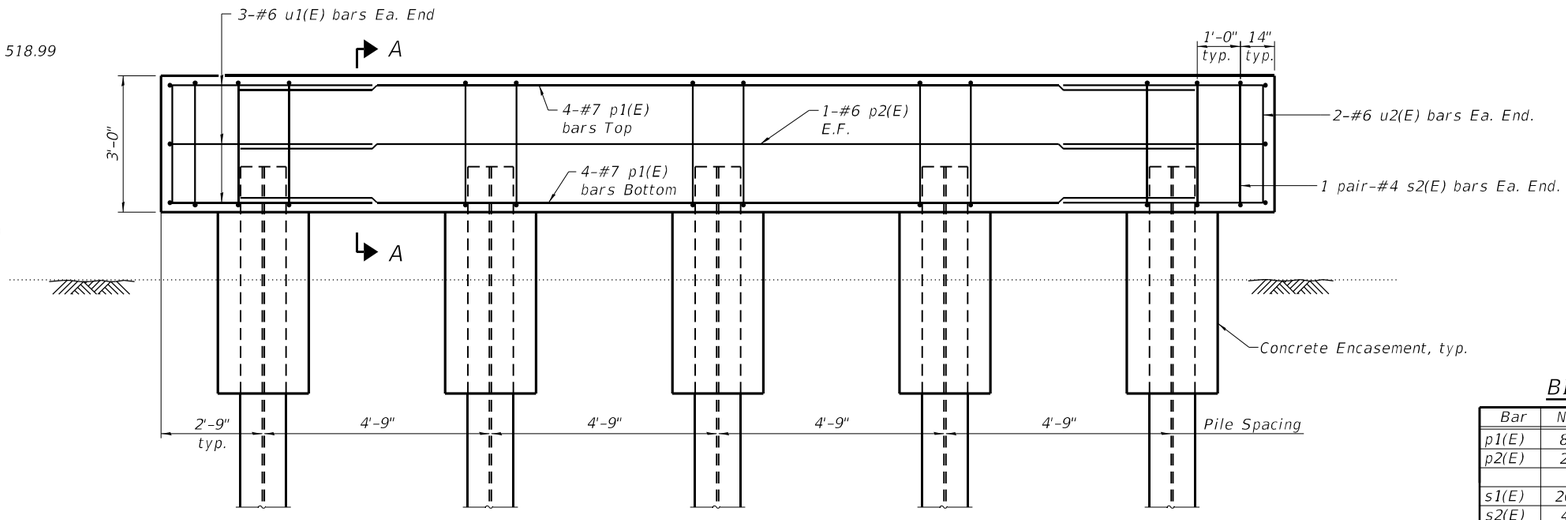
TOP PLAN



SECTION A-A



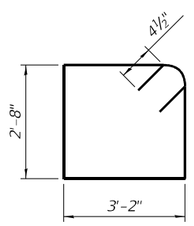
END VIEW



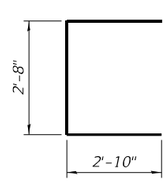
ELEVATION
(Looking North)

PILE DATA

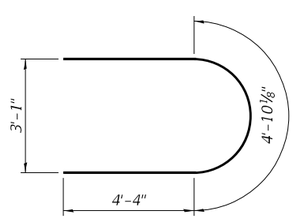
Type: HP12x53 with pile shoes
Nominal Required Bearing: 418 kips
Factored Resistance Available: 230 kips
Est. Length: 42 ft
No. Production Piles: 5
No. Test Piles = 0



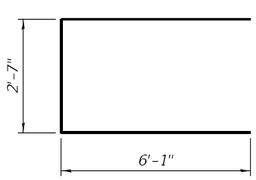
BAR s1(E)



BAR s2(E)



BAR u1(E)



BAR u2(E)

PIER 1
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
p1(E)	8	#7	21'-0"	
p2(E)	2	#6	21'-0"	
s1(E)	26	#4	12'-5"	
s2(E)	4	#4	8'-4"	
u1(E)	6	#6	13'-6"	
u2(E)	4	#6	14'-9"	
Cofferdam (Type 1) (Location-1)		Each	1	
Concrete Structures		Cu. Yd.	9.3	
Concrete Encasement		Cu. Yd.	2.5	
Reinforcement Bars, Epoxy Coated		Pound	860	
Furnishing Steel Piles HP 12x53		Foot	210	
Driving Piles		Foot	195	
Pile Shoes		Each	5	

MODEL: Default
FILE NAME: E:\2115-3\Structure\SN 061-0400\CADD\CADD_Sheets\061-0400-46933-009-PierDetails.dgn
10/18/2023 3:41:39 PM

LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois

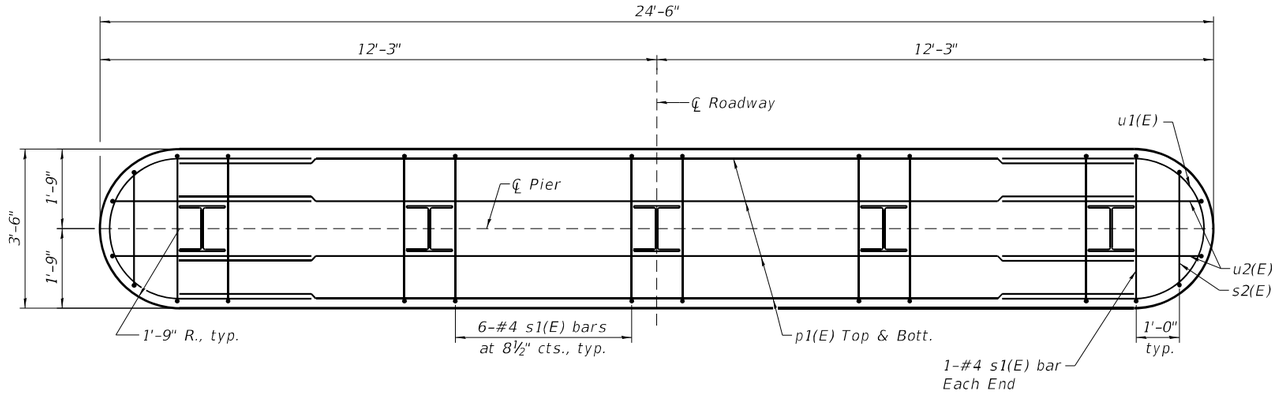
USER NAME =		DESIGNED - CZ	REVISED -
		CHECKED - CL	REVISED -
PLOT SCALE =		DRAWN - AJF	REVISED -
PLOT DATE =	10/18/2023	CHECKED - CL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

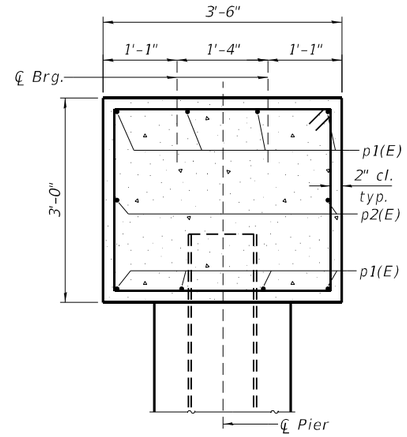
PIER 1 DETAILS
STRUCTURE NO. 061-0400
SHEET 9 OF 13 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FORBES 2022	MARION	120	104
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		

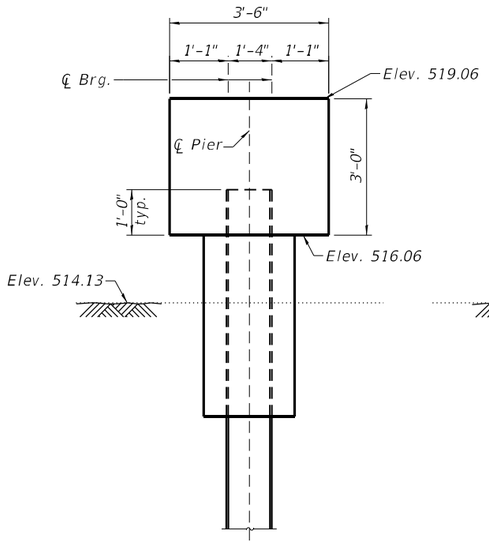
Notes:
Space reinforcement in cap to miss anchor bolts.
For details of piles, see sheet 11 of 13.
Pile encasement needs to extend at least 2.5' below ground line. Cost to be included with Furnishing Steel Piles HP 12x53.
Pier caps are designed for piles placed directly under beams.



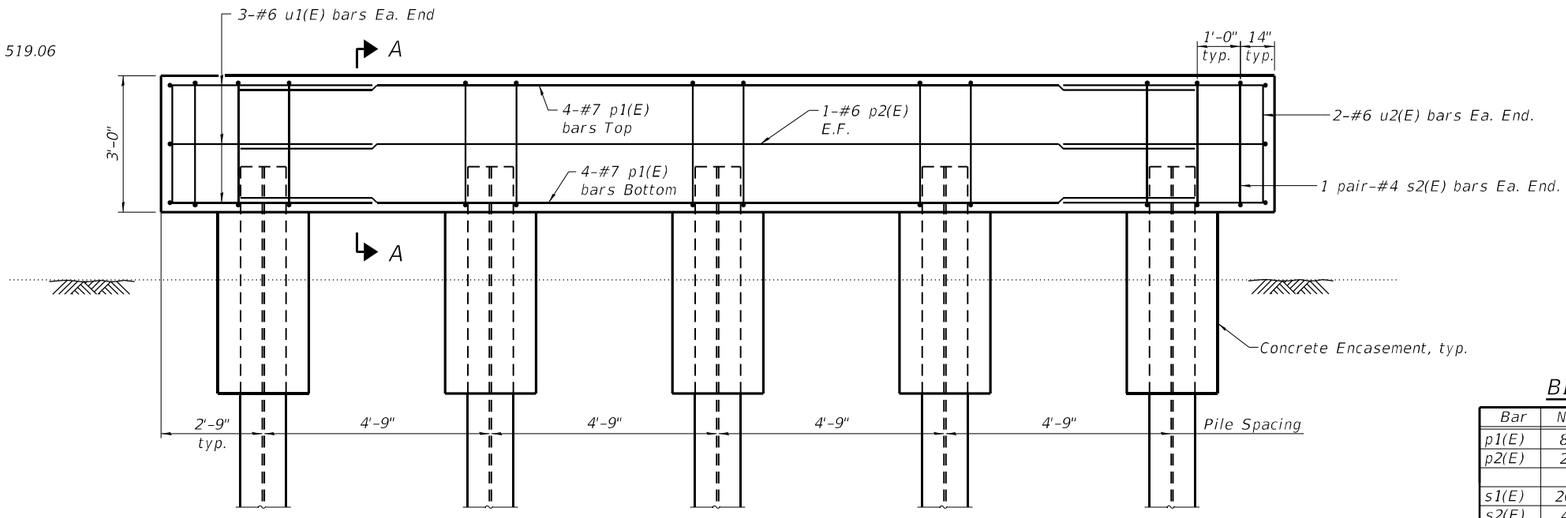
TOP PLAN



SECTION A-A



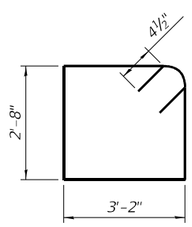
END VIEW



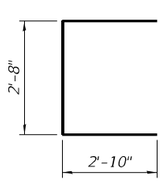
ELEVATION
(Looking North)

PILE DATA

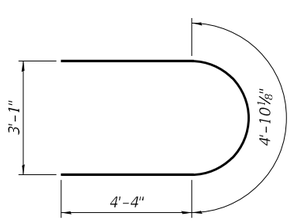
Type: HP12x53 with pile shoes
Nominal Required Bearing: 418 kips
Factored Resistance Available: 230 kips
Est. Length: 45 ft
No. Production Piles: 4
No. Test Piles = 1



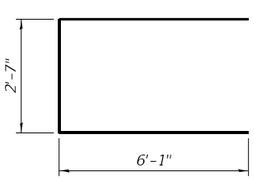
BAR s1(E)



BAR s2(E)



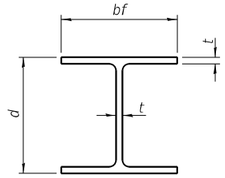
BAR u1(E)



BAR u2(E)

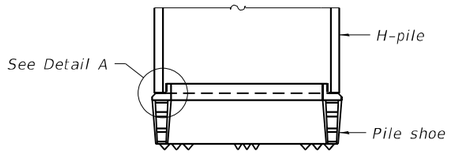
PIER 2
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
p1(E)	8	#7	21'-0"	
p2(E)	2	#6	21'-0"	
s1(E)	26	#4	12'-5"	
s2(E)	4	#4	8'-4"	
u1(E)	6	#6	13'-6"	
u2(E)	4	#6	14'-9"	
Cofferdam (Type 1) (Location-2)		Each	1	
Concrete Structures		Cu. Yd.	9.3	
Concrete Encasement		Cu. Yd.	2.5	
Reinforcement Bars, Epoxy Coated		Pound	860	
Furnishing Steel Piles HP 12x53		Foot	180	
Driving Piles		Foot	168	
Test Pile, Steel HP12x53		Each	1	
Pile Shoes		Each	5	

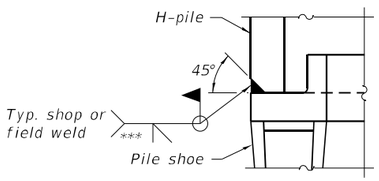


STEEL PILE TABLE

Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	11/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	11/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



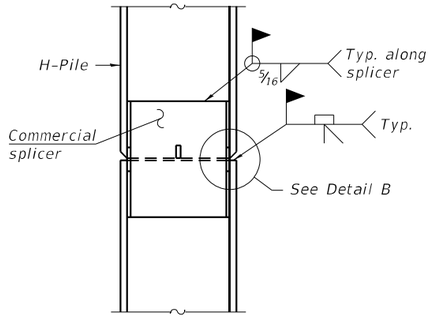
ELEVATION



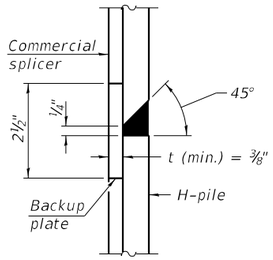
DETAIL A

SHOE ATTACHMENT

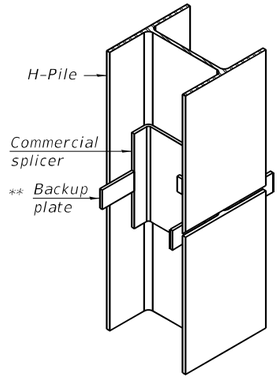
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION

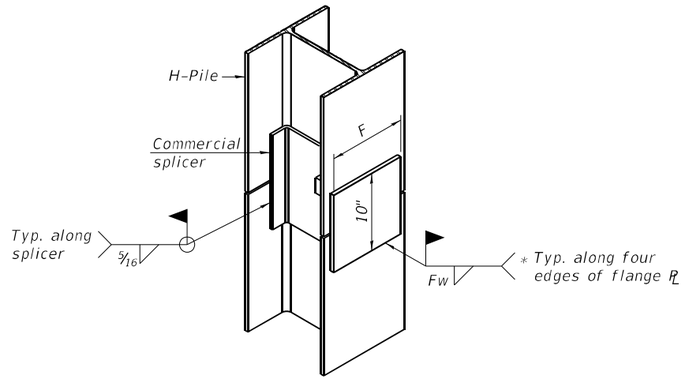


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



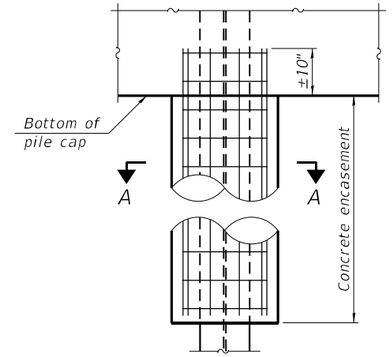
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

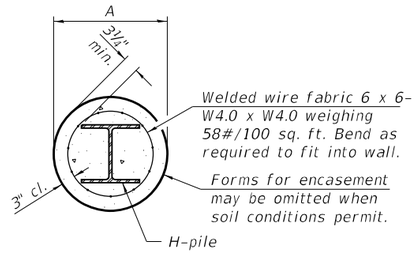
* Interrupt welds 1/4" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer (5/16" min.).



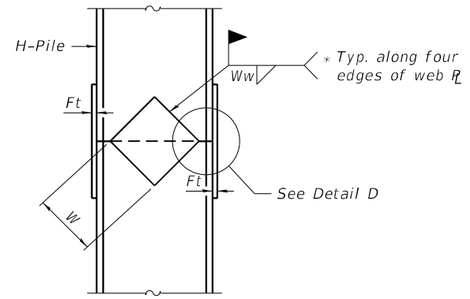
ELEVATION



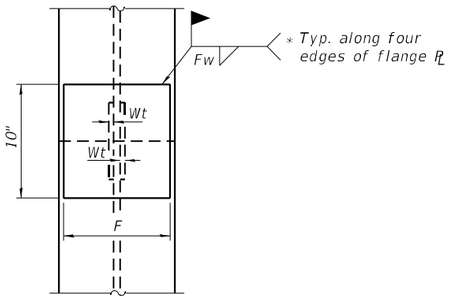
SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASEMENT

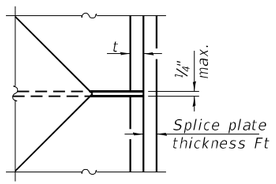
(when specified)



ELEVATION



END VIEW



DETAIL D

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	3/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

WELDED PLATE FIELD SPLICE

F-HP 2-1-2023

LIN ENGINEERING, LTD. Consulting Engineers, Springfield, Illinois

USER NAME =	DESIGNED - CZ	REVISED -	
	CHECKED - CL	REVISED -	
PLOT SCALE =	DRAWN - AJF	REVISED -	
PLOT DATE = 10/18/2023	CHECKED - CL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 061-0400
SHEET 11 OF 13 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FORBES 2022	MARION	120	106
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: E:\2115-3\Structure\SN 061040\CADD\CADD_Sheets\061040-46933-011-HPPileDetails.dgn
10/18/2023 3:41:40 PM

Illinois Department of Transportation
Division of Highways

SOIL BORING LOG

Date 8/29/23

ROUTE N. Main Park Rd. DESCRIPTION Stephen A. Forbes Bridge Replacement - North Abutment LOGGED BY KEG

SECTION FORBES 2022 LOCATION 38.7291002° N, 88.7781009° W

COUNTY Marion DRILLING METHOD HSA to 30' Rotary to Term. HAMMER TYPE Auto

STRUCT. NO. 061-9920
Station 13+72.50

BORING NO. SB-01
Station 14+40.00
Offset 6.0 ft RT
Ground Surface Elev. 521.72 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 512.2 ft ▼
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
521.2				ASPHALT - 7"
521.0				SANDY GRAVEL BASE - 3"
	2			SILTY CLAY - Brown, Medium Stiff, w/Gravel
	3 3	3.8 P	13	
	2			Becomes Brown & Gray LL = 31.8, PL = 14.1, PI = 17.7
-5	3 4	2.5 P	9	
	1			Poor Recovery, Becomes Soft, w/Organics
	1 2	-	21	
513.2	1			SANDY CLAY - Gray, Stiff
	1 2	1.0 P	20	Becomes Very Soft, Wet ▼
-10	WH			
	1 1	<0.25 P	26	
507.7	1			
	2 5	-	17	CLAYEY SAND - Brown, Loose, w/Gravel
-15				
505.7	1			SILTY CLAY - Brown & Gray, Stiff LL = 29.7, PL = 13.5, PI = 16.1
	1 4	1.8 P	20	
	3 4 6	1.4 B	17	
-20				
	2			SILTY CLAY - Brown & Gray, Stiff LL = 29.7, PL = 13.5, PI = 16.1 *(continued)* Becomes Brownish Dark Gray
	4 6	1.3 B	20	
498.2	3			SILTY CLAY LOAM TILL - Gray, Medium Stiff to Stiff
-25	4 6	1.0 B	23	
	3			
	5 7	1.8 B	42	
	3			
	7 10	2.6 B	19	
-30	4			
	6 8	1.8 B	21	
-35				
	2 2 7	0.8 B	24	
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways

SOIL BORING LOG

Date 8/29/23

ROUTE N. Main Park Rd. DESCRIPTION Stephen A. Forbes Bridge Replacement - North Abutment LOGGED BY KEG

SECTION FORBES 2022 LOCATION 38.7291002° N, 88.7781009° W

COUNTY Marion DRILLING METHOD HSA to 30' Rotary to Term. HAMMER TYPE Auto

STRUCT. NO. 061-9920
Station 13+72.50

BORING NO. SB-01
Station 14+40.00
Offset 6.0 ft RT
Ground Surface Elev. 521.72 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 512.2 ft ▼
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
480.7				SILTY CLAY LOAM TILL - Gray, Mecium Stiff to Stiff *(continued)* Slow Drilling, MSPT Next Sample
				SHALE - Gray, Soft, Poor Recovery, Blowback
	100/2.8"			
-45	- -	-	26	
	100/3.7"			
-50	- -	-	19	
	100/5.5"			
466.7	- -	-	14	
-55				
				End of Boring
-60				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

MODEL: Default
FILE NAME: E:\21115-3\Structure\SN 061040O\CADD\CADD_Sheets\061040O-46933-012-SoilBorings.dgn

10/18/2023 3:41:43 PM

LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME =	DESIGNED - CZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORINGS STRUCTURE NO. 061-0400
		CHECKED - CL	REVISED -		
	PLOT SCALE =	DRAWN - AJF	REVISED -		
	PLOT DATE = 10/18/2023	CHECKED - CL	REVISED -		SHEET 12 OF 13 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FORBES 2022	MARION	120	107
		CONTRACT NO. 46933		
	ILLINOIS FED. AID PROJECT			

Illinois Department of Transportation
Division of Highways

SOIL BORING LOG

Date 8/28/23

ROUTE N. Main Park Rd. DESCRIPTION Stephen A. Forbes Bridge Replacement - South Abutment LOGGED BY KEG

SECTION FORBES 2022 LOCATION 38.7287405° N, 88.7781918° W

COUNTY Marion DRILLING METHOD HSA to 25' Rotary to Term. HAMMER TYPE Auto

STRUCT. NO. 061-9920
Station 13+72.50

BORING NO. SB-02
Station 13+05.00
Offset 6.0 ft LT
Ground Surface Elev. 521.56 ft

Surface Water Elev. ____ ft
Stream Bed Elev. ____ ft

Groundwater Elev.:
First Encounter 510.6 ft ▼
Upon Completion ____ ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
520.9				ASPHALT - 7.5"
520.6				SANDY GRAVEL - 4"
	2			SILTY CLAY - Brown & Gray, Stiff
	3	3.5	17	
	3	P		
	2			Becomes Medium Stiff LL = 29.6, PL = 15.3, PI = 14.3
-5	2	1.8	17	
	3	P		
	2			Becomes Grayish Blue w/Blue Sandstone Fragments
	2	0.5	25	
	2	P		
	1			Becomes Dark Gray, Soft, Moist LL = 28.9, PL = 16.6, PI = 12.3
	1	0.2	26	
-10	1	B		
510.6 ▼				
	2			SANDY CLAY - Brown, Medium Stiff, Wet, w/Gravel
	2	-	16	
	3			
	6			w/Shards of Brown Sandstone
	5	-	20	
-15	4			
	2			Becomes Brown, w/Some Sand and Clay Layers
	3	-	23	
504.1	3			
	4			SANDY CLAY LOAM TILL - Gray, Stiff, w/Organics
	5	2.6	14	
-20	7	B		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				SANDY CLAY LOAM TILL - Gray, Stiff, w/Organics *(continued)*
	3			
	4	1.3	19	
	7	B		
	4			
	5	1.9	29	
-25	7	B		
	4			
	4	1.1	23	
	8	B		
	2			
	4	1.5	20	Becomes Brown, Soft, w/Organics
-30	7	P		
488.1				
	10			CLAYEY SAND - Gray, Dense, Wet
	17	-	13	
-35	17			
	12			
	7	-	17	w/Organics
-40	7			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways

SOIL BORING LOG

Date 8/28/23

ROUTE N. Main Park Rd. DESCRIPTION Stephen A. Forbes Bridge Replacement - South Abutment LOGGED BY KEG

SECTION FORBES 2022 LOCATION 38.7287405° N, 88.7781918° W

COUNTY Marion DRILLING METHOD HSA to 25' Rotary to Term. HAMMER TYPE Auto

STRUCT. NO. 061-9920
Station 13+72.50

BORING NO. SB-02
Station 13+05.00
Offset 6.0 ft LT
Ground Surface Elev. 521.56 ft

Surface Water Elev. ____ ft
Stream Bed Elev. ____ ft

Groundwater Elev.:
First Encounter 510.6 ft ▼
Upon Completion ____ ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				CLAYEY SAND - Gray, Dense, Wet *(continued)*
478.1				
	100/8.1"			SHALE - Gray, Sticky, Soft START MSPT
	-	-	12	
-45	-			
	100/3.3"			
	-	-	13	
-50	-			
	100/2.6"			
	-	-	21	
466.6 -55				End of Boring

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

(Sheet 2 of 2)

MODEL: Default
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10/18/2023 3:41:46 PM

LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME =	DESIGNED - CZ	REVISED -
		CHECKED - CL	REVISED -
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	PLOT DATE = 10/18/2023	CHECKED - CL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS
STRUCTURE NO. 061-0400
SHEET 13 OF 13 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FORBES 2022	MARION	120	108
		CONTRACT NO. 46933		
	ILLINOIS	FED. AID PROJECT		

LIGHTING LEGEND:

PC — PROPOSED GROUND MOUNTED LIGHTING UNIT
30' M.H., 1' STUB ARM, LED LUMINAIRE G WITH NEW PHOTOCELL, 120V
WITH 11-1/2" B.C. ON METAL FOUNDATION

PC — PROPOSED GROUND MOUNTED LIGHTING UNIT
30' M.H., 1' STUB ARM, LED LUMINAIRE H WITH NEW PHOTOCELL, 120V
WITH NEW RECEPTACLE OUTLET AND 11-1/2" B.C. ON EXISTING CONCRETE FOUNDATION

PROPOSED GROUND MOUNTED LIGHTING UNIT
30' M.H., 1' STUB ARM, LED LUMINAIRE H, 120V
WITH NEW RECEPTACLE OUTLET AND 11-1/2" B.C. ON EXISTING CONCRETE FOUNDATION

PC — PROPOSED GROUND MOUNTED LIGHTING UNIT
30' M.H., 1' STUB ARM, LED LUMINAIRE H WITH NEW PHOTOCELL, 120V
WITH 11-1/2" B.C. ON EXISTING CONCRETE FOUNDATION

PROPOSED GROUND MOUNTED LIGHTING UNIT
30' M.H., 1' STUB ARM, LED LUMINAIRE H, 120V
WITH 11-1/2" B.C. ON EXISTING CONCRETE FOUNDATION

PC — EXISTING LIGHTING UNIT WITH 150W HPS LUMINAIRE, PHOTOCELL, AND JUNCTION BOX TO BE REMOVED

EXISTING LIGHTING UNIT WITH 400W HPS LUMINAIRE TO BE REMOVED

EXISTING LIGHTING UNIT WITH 400W HPS LUMINAIRE AND RECEPTACLE OUTLET TO BE REMOVED

PC — EXISTING LIGHTING UNIT WITH 400W HPS LUMINAIRE AND PHOTOCELL TO BE REMOVED

PC — EXISTING LIGHTING UNIT WITH 400W HPS LUMINAIRE, PHOTOCELL, AND RECEPTACLE OUTLET TO BE REMOVED

GENERAL NOTES:

1. CONTRACTOR TO CONFIRM LUMINAIRE VOLTAGE.
2. EXISTING ELECTRICAL PANEL LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

LIGHTING SUMMARY OF QUANTITIES

	S.P.	PAY ITEM	DESCRIPTION	UNIT	QUANTITY
		81028720	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1" DIA.	FOOT	20
***		81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	100
	**	82110007	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	6
	**	82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	12
		83600352	LIGHT POLE FOUNDATION, METAL, 11 1/2" BOLT CIRCLE, 8 5/8" X 6'	EACH	6
		84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	18
	*	X0326498	GFCI 20 AMP DUPLEX RECEPTACLE	EACH	6
	*	X1400211	LIGHT POLE, SPECIAL, 30'	EACH	18

*** = NOMINAL QUANTITY IS INCLUDED IN THE CONTRACT

S.P. COLUMN

* SPECIAL PROVISION
** SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS

HIGHWAY STANDARDS

821101-02 LUMINAIRE WIRING IN POLE
830001-03 LIGHT POLE ALUMINUM MAST ARM
836001-04 LIGHT POLE FOUNDATION

LIGHTING INDEX OF SHEETS

MODEL: Default
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PLOT DATE = 8/30/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

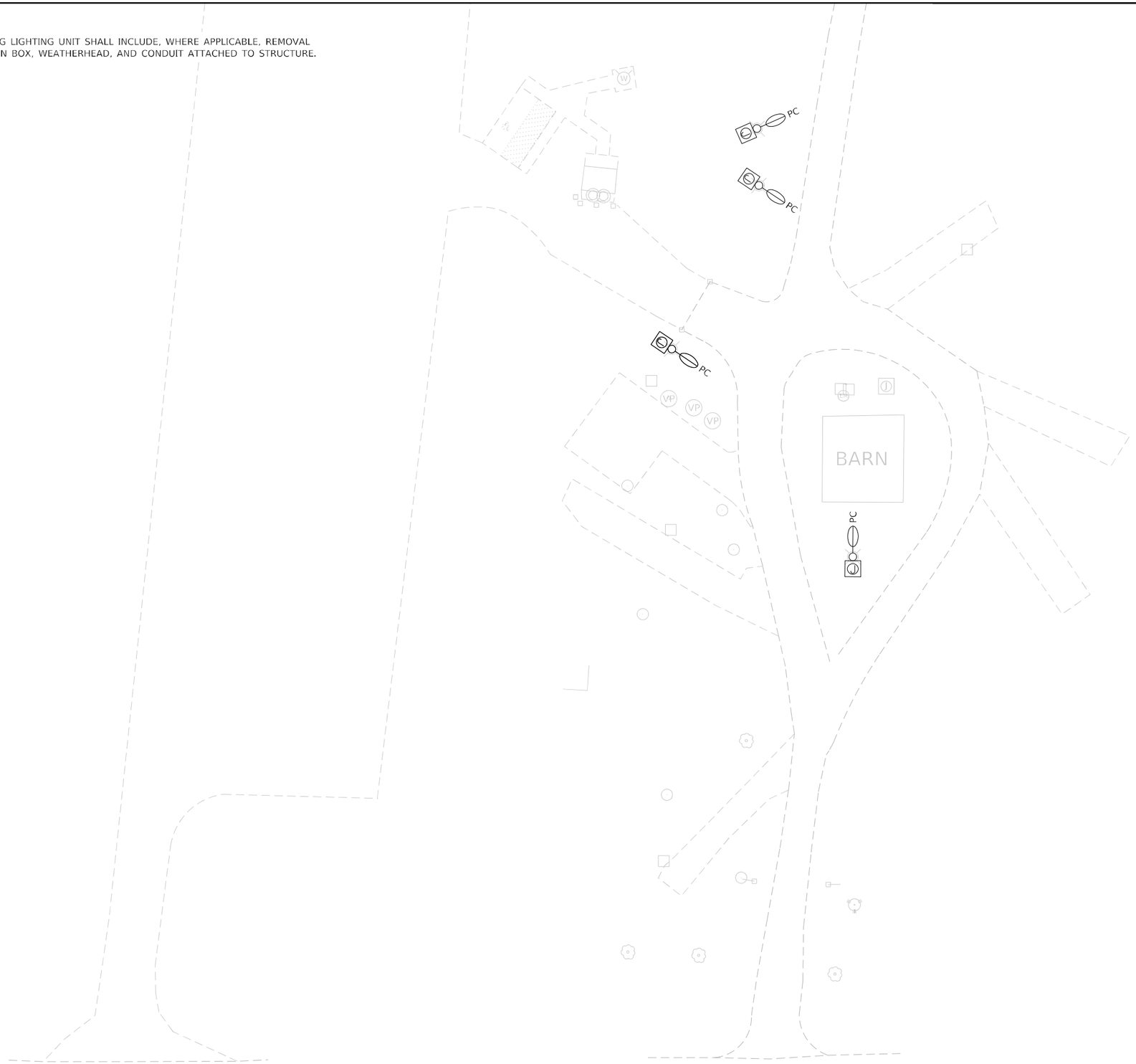
LIGHTING LEGEND & STANDARDS LIST
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: NTS | SHEET 1 OF 12 SHEETS | STA. | TO STA.

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

NOTES:

1. REMOVAL OF EXISTING LIGHTING UNIT SHALL INCLUDE, WHERE APPLICABLE, REMOVAL OF EXISTING JUNCTION BOX, WEATHERHEAD, AND CONDUIT ATTACHED TO STRUCTURE.



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PLOT DATE = 8/30/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING REMOVAL PLAN
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 2 OF 12 SHEETS | STA. | TO STA.

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

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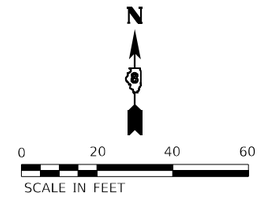
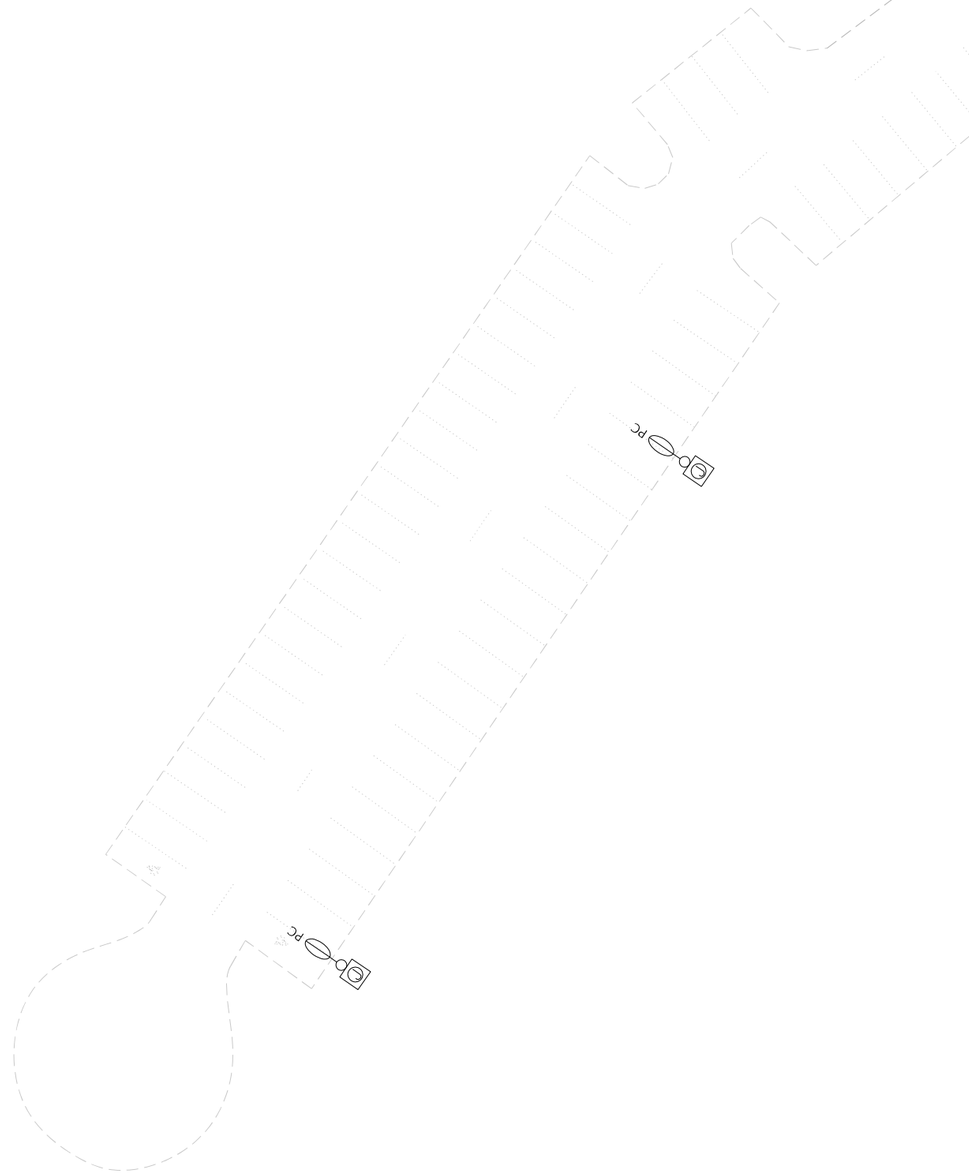
NOTES:

1. REMOVAL OF EXISTING LIGHTING UNIT SHALL INCLUDE, WHERE APPLICABLE, REMOVAL OF EXISTING JUNCTION BOX, WEATHERHEAD, AND CONDUIT ATTACHED TO STRUCTURE.





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING REMOVAL PLAN
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 3 OF 12 SHEETS | STA. | TO STA.

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

NOTES:

1. REMOVAL OF EXISTING LIGHTING UNIT SHALL INCLUDE, WHERE APPLICABLE, REMOVAL OF EXISTING JUNCTION BOX, WEATHERHEAD, AND CONDUIT ATTACHED TO STRUCTURE.

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PLOT DATE = 8/30/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING REMOVAL PLAN
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 4 OF 12 SHEETS | STA. | TO STA.

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

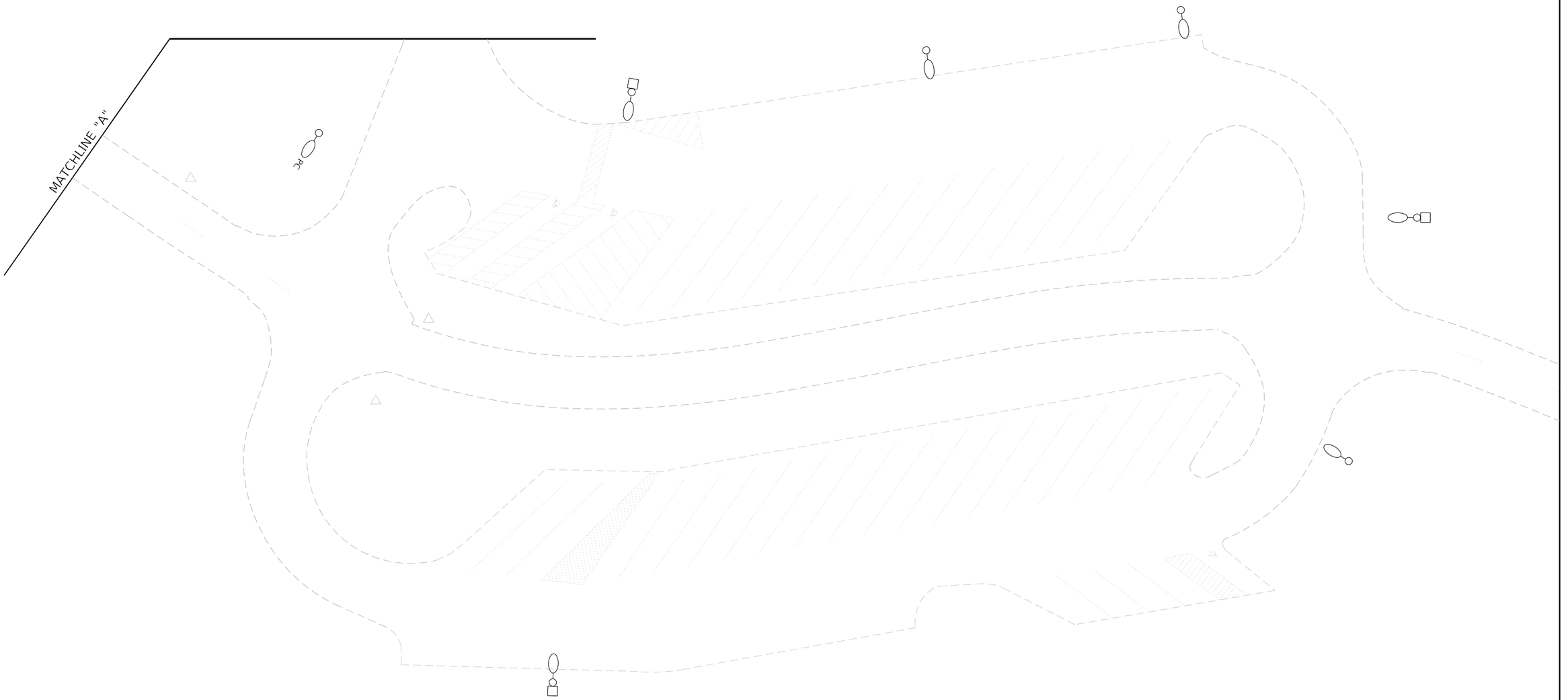
NOTES:

1. REMOVAL OF EXISTING LIGHTING UNIT SHALL INCLUDE, WHERE APPLICABLE, REMOVAL OF EXISTING JUNCTION BOX, WEATHERHEAD, AND CONDUIT ATTACHED TO STRUCTURE.

N

0 20 40 60

SCALE IN FEET



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PLOT DATE = 8/30/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING REMOVAL PLAN
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 5 OF 12 SHEETS | STA. | TO STA.

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

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NOTES:

1. REMOVAL OF EXISTING LIGHTING UNIT SHALL INCLUDE, WHERE APPLICABLE, REMOVAL OF EXISTING JUNCTION BOX, WEATHERHEAD, AND CONDUIT ATTACHED TO STRUCTURE.

N

0 20 40 60

SCALE IN FEET

MODEL: Default
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PLOT DATE = 8/30/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING REMOVAL PLAN
STEPHEN A. FORBES STATE RECREATION AREA

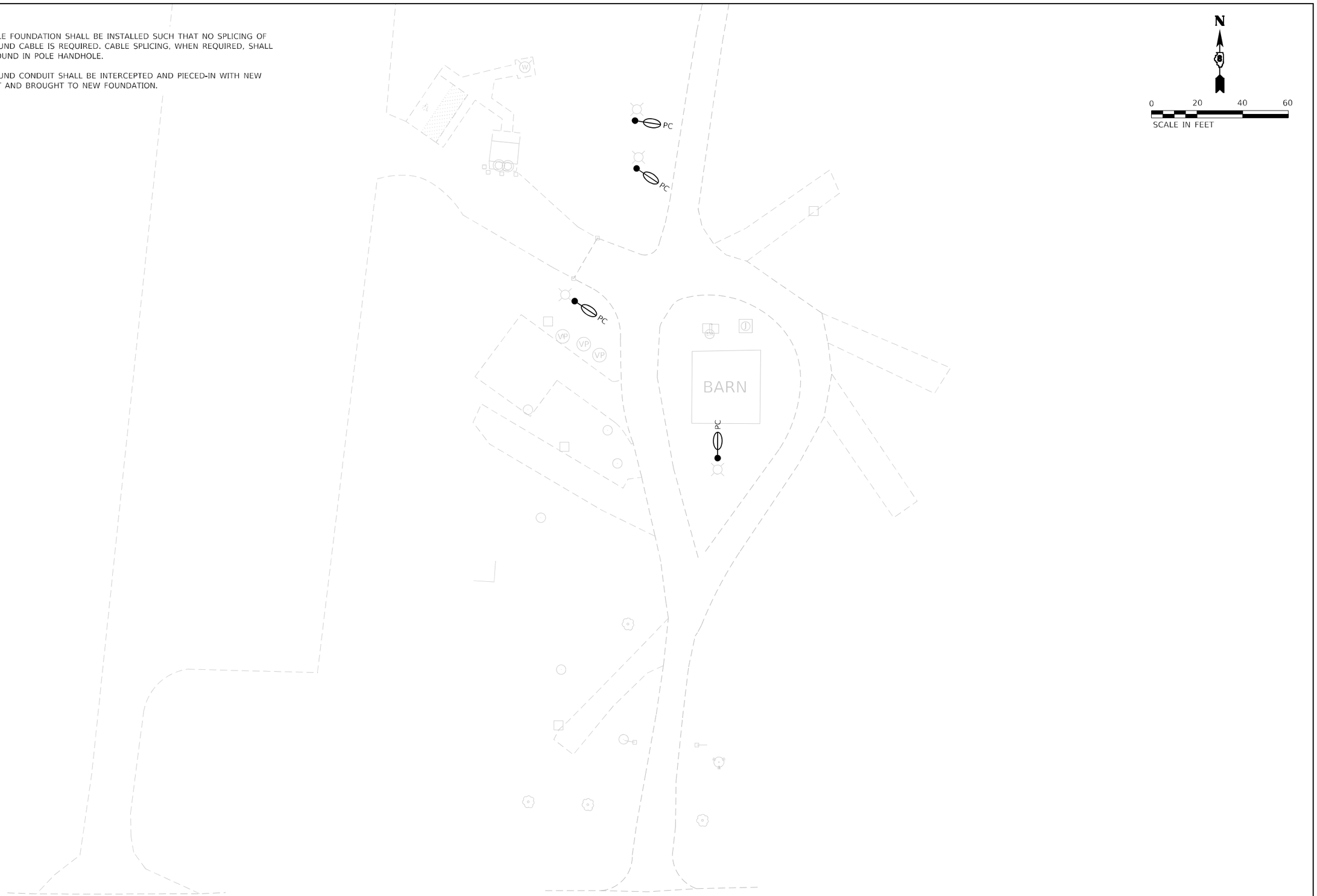
SCALE: 1"=20' | SHEET 6 OF 12 SHEETS | STA. | TO STA.

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

NOTES:

1. PROPOSED LIGHT POLE FOUNDATION SHALL BE INSTALLED SUCH THAT NO SPLICING OF EXISTING UNDERGROUND CABLE IS REQUIRED. CABLE SPLICING, WHEN REQUIRED, SHALL BE MADE ABOVE GROUND IN POLE HANDHOLE.

2. EXISTING UNDERGROUND CONDUIT SHALL BE INTERCEPTED AND PIECED-IN WITH NEW 1" DIA. CNC CONDUIT AND BROUGHT TO NEW FOUNDATION.



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN
STEPHEN A. FORBES STATE RECREATION AREA

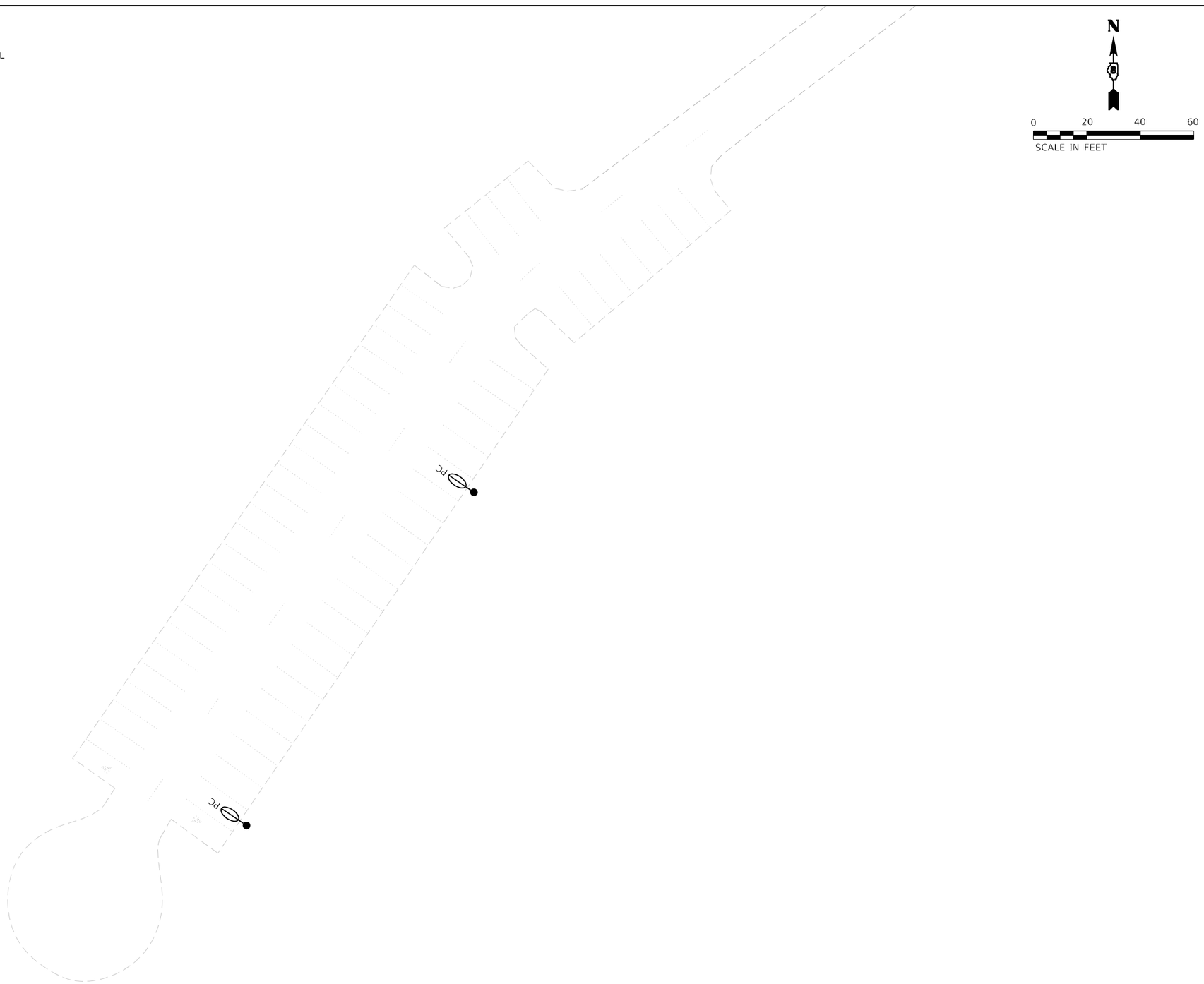
SCALE: 1"=20' | SHEET 7 OF 12 SHEETS | STA. | TO STA.

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

NOTES:

1. PROPOSED LIGHT POLE FOUNDATION SHALL BE INSTALLED SUCH THAT NO SPLICING OF EXISTING UNDERGROUND CABLE IS REQUIRED. CABLE SPLICING, WHEN REQUIRED, SHALL BE MADE ABOVE GROUND IN POLE HANDHOLE.

2. EXISTING UNDERGROUND CONDUIT SHALL BE INTERCEPTED AND PIECED-IN WITH NEW 1" DIA. CNC CONDUIT AND BROUGHT TO NEW FOUNDATION.



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	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/30/2023	DATE -	REVISED -	

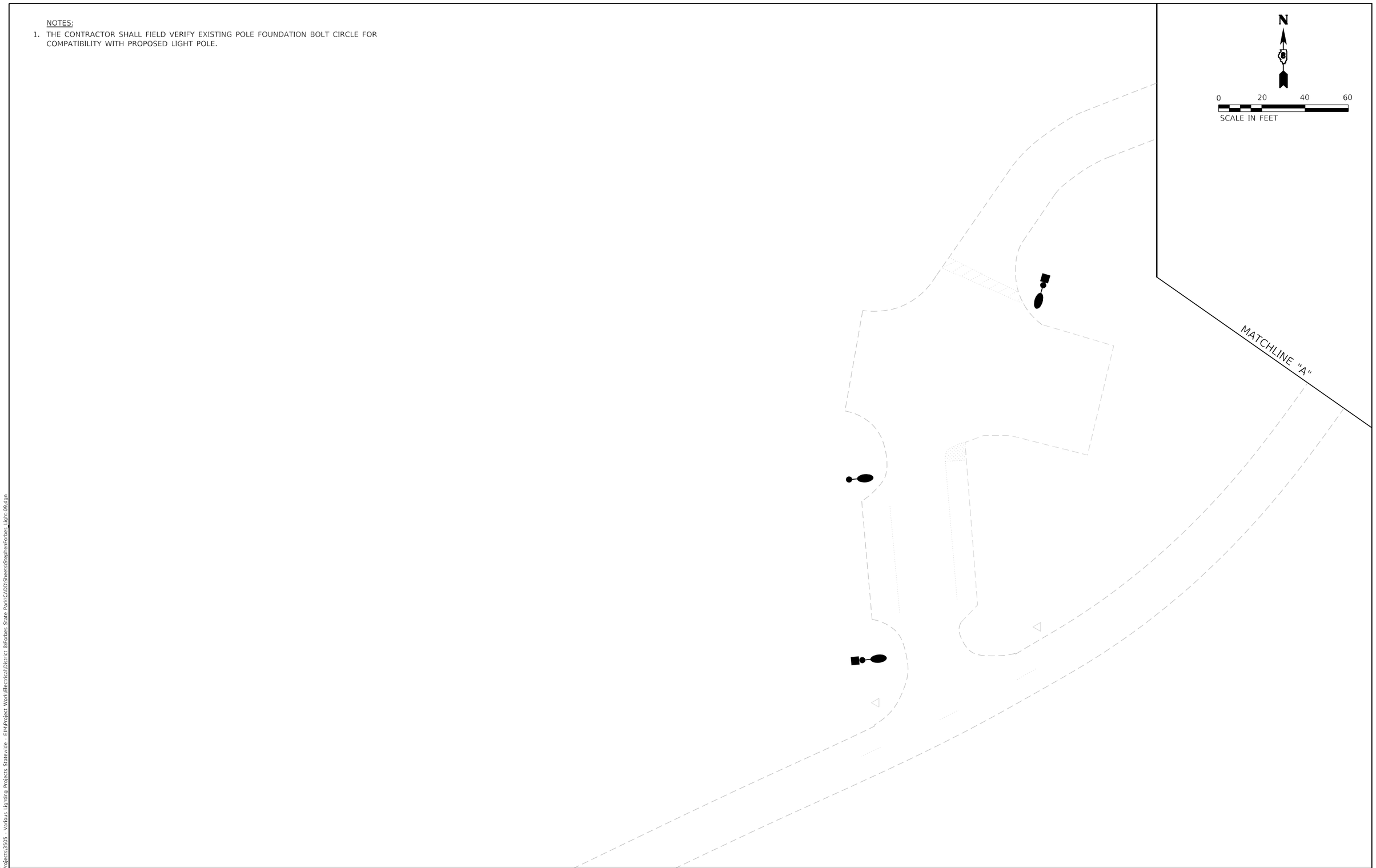
PROPOSED LIGHTING PLAN
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 8 OF 12 SHEETS | STA. | TO STA.

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

NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY EXISTING POLE FOUNDATION BOLT CIRCLE FOR COMPATIBILITY WITH PROPOSED LIGHT POLE.



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PLOT DATE = 8/30/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 9 OF 12 SHEETS | STA. | TO STA.

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

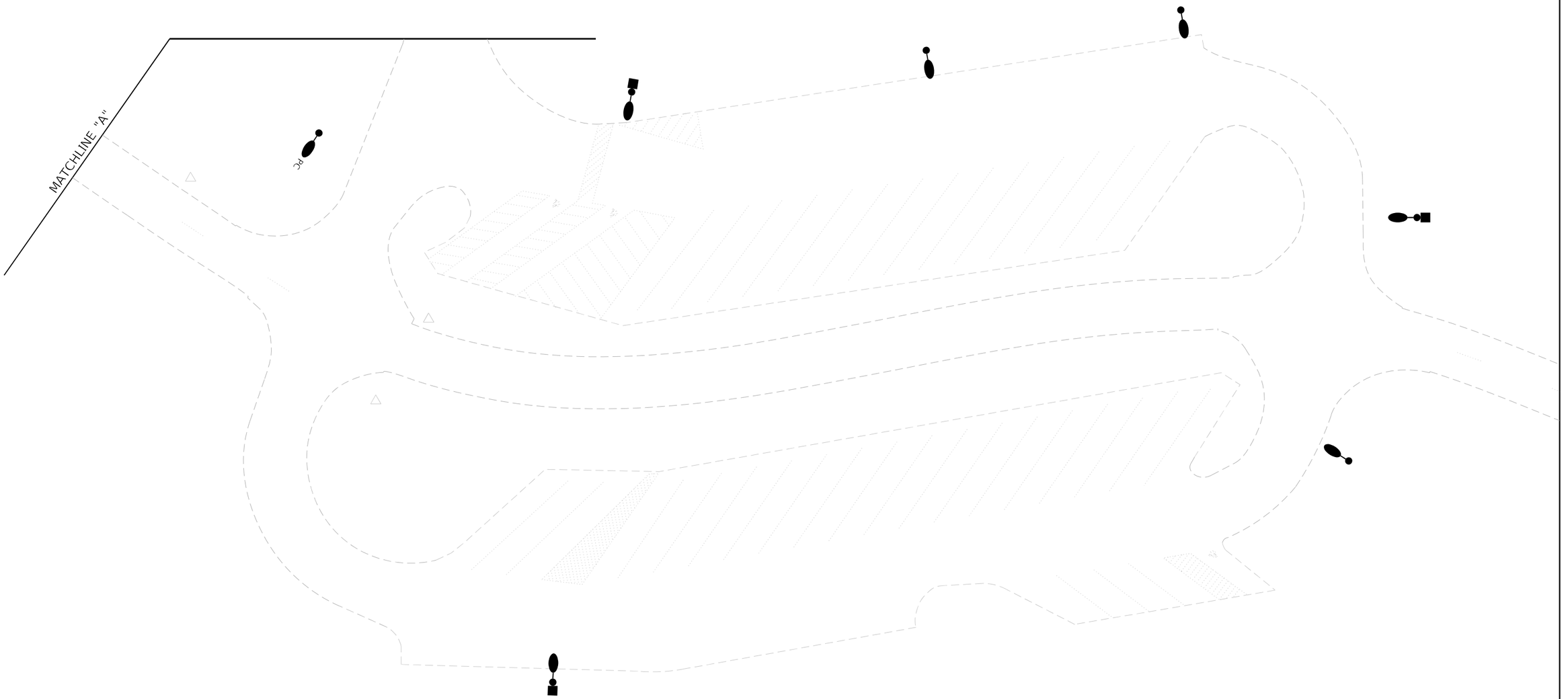
NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY EXISTING POLE FOUNDATION BOLT CIRCLE FOR COMPATIBILITY WITH PROPOSED LIGHT POLE.

N

0 20 40 60

SCALE IN FEET



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PLOT DATE = 8/30/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 10 OF 12 SHEETS | STA. | TO STA.

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

MODEL: Default
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NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY EXISTING POLE FOUNDATION BOLT CIRCLE FOR COMPATIBILITY WITH PROPOSED LIGHT POLE.

N

0 20 40 60

SCALE IN FEET

MODEL: Default
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	DRAWN -	REVISED -	**DEPARTMENT OF TRANSPORTATION**
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/30/2023	DATE -	REVISED -	

PROPOSED LIGHTING PLAN
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: 1"=20' | SHEET 11 OF 12 SHEETS | STA. | TO STA.

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

LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G

Project

Date	Contract Number	Section Number	County
08-28-2023			MARION

Marked Route Number	Municipality

Roadway

Lane Width	#of Lanes	Median Width	I.E.S Surface Classification	Q-Zero Value
12 ft	3	N/A	R3	0.07

Structure

Mounting Height	Arm Length	Set Back	Number of Luminaires (Highmast & Sign Lighting Only)
30 ft	1 ft	5 ft	N/A

Luminaire

Description	I.E.S. Transverse Distribution	I.E.S. Lateral Distribution
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	TYPE III	MEDIUM

Total Light Loss Factor (LLF)	BUG Rating	Shields	Dimming Protocol
0.7	U = 0	N/A	0-10V

Layout

Spacing (to Nearest 5 Ft)	Configuration (Opposite, Staggered, 1 Sided, or Median)
150 ft	SINGLE SIDED

Performance

Average Illuminance, E_{AVE} (fc)	Uniformity Ratio, E_{AVE}/E_{MIN}
0.8 - 1.0	≤ 3.0:1

Average Luminance, L_{AVE}(cd/m^2)	Uniformity Ratio, L_{AVE}/L_{MIN}	Uniformity Ratio, L_{MAX}/L_{MIN}	Veiling Luminance Ratio, L_V/L_{MIN}
1.1 - 1.3	≤ 3.0:1	≤ 5.0:1	≤ 0.4

Light Tresspass

Distance to ROW (behind pole)	Max. Horizontal Illuminance at ROW, E_H	Max. Vertical Illuminance at ROW, E_V
N/A	N/A	N/A

Notes

1. Set Back is from Edge of Pavement (white line) except for sign luminaires when it is vertical and horizontal distance from the sign to the luminaire.
2. Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to roadway.
3. Total Light Loss Factor (LLF) = the product of "Lumen Maintenance" (LLD) = 0.9, "Dirt Depreciation" (LDD) = 0.8, and "Equipment Factors" (EF) = 0.95.
4. Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions above.
5. Lighting calculations shall be performed in one direction only.
6. Compliance with performance criteria shall be held to one significant digit.

LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H

Project

Date	Contract Number	Section Number	County
08-28-2023			MARION

Marked Route Number	Municipality

Roadway

Lane Width	#of Lanes	Median Width	I.E.S Surface Classification	Q-Zero Value
12 ft	3	N/A	R3	0.07

Structure

Mounting Height	Arm Length	Set Back	Number of Luminaires (Highmast & Sign Lighting Only)
30 ft	1 ft	5 ft	N/A

Luminaire

Description	I.E.S. Transverse Distribution	I.E.S. Lateral Distribution
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	TYPE IV	SHORT/MEDIUM

Total Light Loss Factor (LLF)	BUG Rating	Shields	Dimming Protocol
0.7	U = 0	N/A	0-10V

Layout

Spacing (to Nearest 5 Ft)	Configuration (Opposite, Staggered, 1 Sided, or Median)
125 ft	SINGLE SIDED

Performance

Average Illuminance, E_{AVE} (fc)	Uniformity Ratio, E_{AVE}/E_{MIN}
1.3 - 1.5	≤ 3.0:1

Average Luminance, L_{AVE}(cd/m^2)	Uniformity Ratio, L_{AVE}/L_{MIN}	Uniformity Ratio, L_{MAX}/L_{MIN}	Veiling Luminance Ratio, L_V/L_{MIN}
1.9 - 2.5	≤ 3.0:1	≤ 5.0:1	≤ 0.4

Light Tresspass

Distance to ROW (behind pole)	Max. Horizontal Illuminance at ROW, E_H	Max. Vertical Illuminance at ROW, E_V
N/A	N/A	N/A

Notes

1. Set Back is from Edge of Pavement (white line) except for sign luminaires when it is vertical and horizontal distance from the sign to the luminaire.
2. Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to roadway.
3. Total Light Loss Factor (LLF) = the product of "Lumen Maintenance" (LLD) = 0.9, "Dirt Depreciation" (LDD) = 0.8, and "Equipment Factors" (EF) = 0.95.
4. Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions above.
5. Lighting calculations shall be performed in one direction only.
6. Compliance with performance criteria shall be held to one significant digit.

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	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/30/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUMINAIRE PERFORMANCE TABLES
STEPHEN A. FORBES STATE RECREATION AREA

SCALE: NTS | SHEET 12 OF 12 SHEETS | STA. | TO STA.

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