

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**IDOT/DNR STATEWIDE
BUFFALO ROCK STATE PARK**

**SECTION BUFFALO ROCK 2022
IDNR PROJECT 2-21-001
BUFFALO STATE PARK ROAD
LASALLE COUNTY
C-30-002-22**

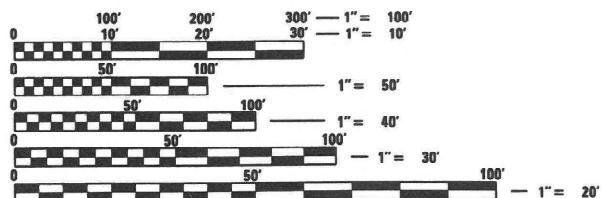
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	32	1
		ILLINOIS	CONTRACT NO. 46924	

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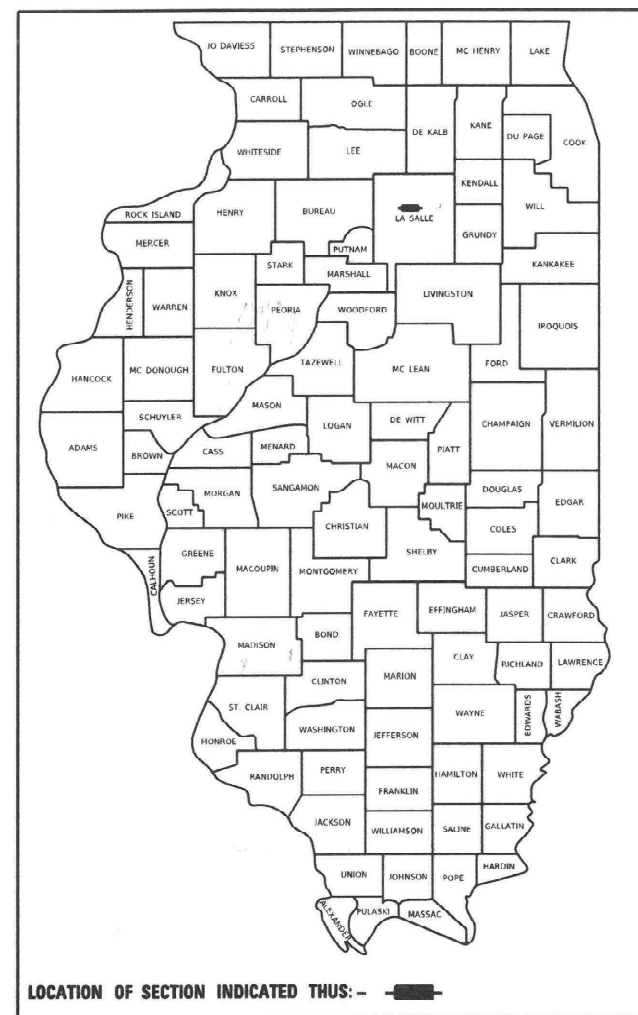
LIST OF STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
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- 601001-05 PIPE UNDERDRAINS
- 601101-02 CONCRETE HEADWALL FOR PIPE UNDERDRAINS
- 606201-04 TYPE B GUTTER (INLET, OUTLET & ENTRANCE)
- 630001-12 STEEL PLATE BEAM GUARDRAIL
- 631033-08 TRAFFIC BARRIER TERMINAL, TYPE 6B
- 701321-18 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701901-08 TRAFFIC CONTROL DEVICES
- BLR17-4 TRAFFIC CONTROL DEVICES - DAY LABOR CONSTRUCTION
- BLR21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

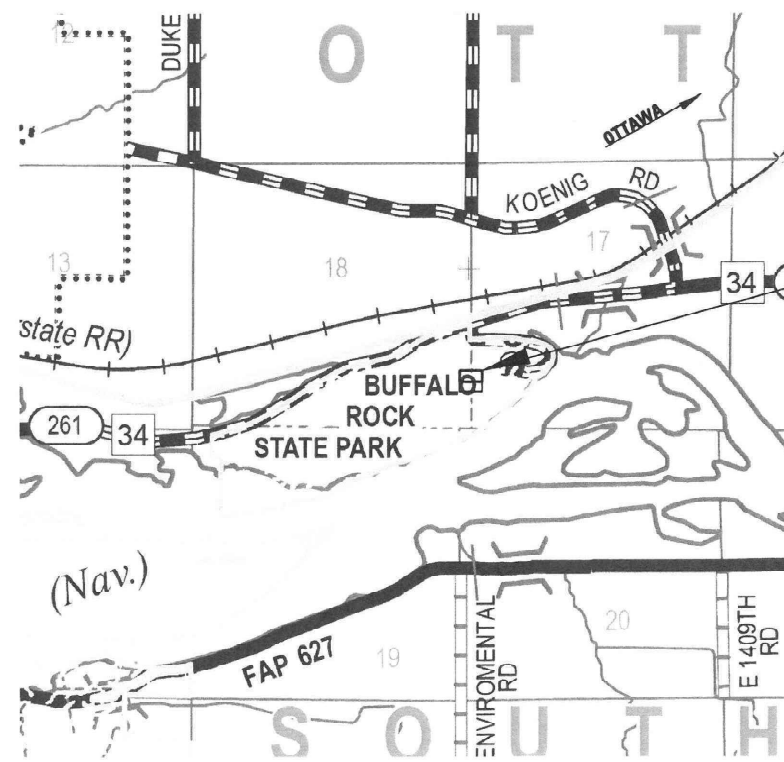


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811



LOCATION OF SECTION INDICATED THUS: —



PROJECT LOCATION

GROSS LENGTH = 235 FT. = 0.045 MILE
NET LENGTH = 235 FT. = 0.045 MILE

PROFESSIONAL ENGINEER
ERIC S. THEKJENSEN
062/044857
STATE OF ILLINOIS

DATE SIGNED : 08/19/2021
LIC. EXP. DATE : 11/30/2021
TERRA ENGINEERING, LTD



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED OCT 1 20 21

REGIONAL ENGINEER
October 1 20 21
ENGINEER OF DESIGN AND ENVIRONMENT
October 1 20 21
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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9/19/2021 T:\Projects\18-300-002 IDNR Buffalo Rock State Park\Design\CADD\Transportation\CADD Sheets\1800002-COVER.dwg

DISTRICT 3 GENERAL NOTES

THE HMA SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL SAW CUT THE HMA SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK WILL BE INCLUDED IN THE COST OF THE HMA SURFACE.

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

THE FINISHED EARTHWORK SHALL HAVE APPLIED A CLASS 3 SEED MIXTURE (NORTHERN ILLINOIS SLOPE MIX). SEED MIX SHALL BE APPLIED IN THE FORM OF HYDRALIC MULCH ON THE FACE OF THE SLOPE AS REQUIRED BY THE ENGINEER.

ALL EXCAVATED MATERIAL, WHICH INCLUDES DIGGING OR GRADING OF ANY SOIL OR FILL MATERIAL, WITH THE EXCEPTION OF AGGREGATE FILLS, MUST BE INCORPORATED WITHIN THE IDOT RIGHT OF WAY.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

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

GRANULAR MATERIALS		2.05	TONS / CU YD
HMA RESURFACING		112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING		10	FT /100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS		0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)		0.0005	TONS / SQ YD
SUPPLEMENTAL WATERING		3	GAL / SQ YD / APPLICATION
CALCIUM CHLORIDE		2	LB / SQ YD / APPLICATION
AGGREGATE DITCH CHECKS		5	TONS AGGREGATE

ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND AT NO EXPENSE TO THE DEPARTMENT. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRIC CABLE WILL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.

THE WORK REQUIRED TO CONNECT ANY SEWER TO AN EXISTING DRAINAGE STRUCTURE OR PIPE WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE SEWER ITEMS.

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

- AMEREN ILLINOIS (ELECTRIC)
- AT&T DISTRIBUTION

1. TREES SHALL BE PRESERVED THROUGHOUT THIS SECTION AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. GENERALLY, TREES OUTSIDE THE CLEAR ZONE, AND WHICH DO NOT INTERFERE WITH CONSTRUCTION, SHALL NOT BE DISTURBED.

2. EARTH WORK COMPACTION SHALL BE TO THE SATISFACTION OF THE ENGINEER.

HMA MIXTURE REQUIREMENTS TABLE

LOCATION	PARK ROAD	PARK ROAD	PARK ROAD
MIXTURE USE:	BASE CSE LIFT	BINDER CSE LIFT	SURFACE CSE LIFT
PG	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ NDES = 50	4.0% @ NDES = 50	4.0% @ NDES = 50
MIXTURE COMPOSITION (GRADATION)	IL 19.0	IL 9.5 FG	IL 9.5
FRICTION AGGREGATE	N/A	N/A	MIX C
MIXTURE WEIGHT	112	112	112
QUALITY MANAGEMENT PLAN	QC/QA	QC/QA	QC/QA
SUBLOT SIZE	N/A	N/A	N/A



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES
BUFFALO ROCK STATE PARK**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	32	2
			CONTRACT NO. 46924	
ILLINOIS FED. AID PROJECT				

ITEM NUMBER	ITEM	UNIT	QUANTITY	CONST CODE	
				100% STATE	100% STATE
				ROADWAY 0005	MIN STRS 0044
25000300	SEEDING, CLASS 3	ACRE	0.04	0.04	
28100105	STONE RIPRAP, CLASS A3	SQ YD	4	4	
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	193	193	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	25	25	
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	19	19	
40800025	BITUMINOUS MATERIALS (PRIME COAT)	POUND	433	433	
40800029	BITUMINOUS MATERIALS (TACK COAT)	POUND	139	139	
44000100	PAVEMENT REMOVAL	SQ YD	193	193	
44213200	SAW CUTS	FOOT	232	232	
44300100	AREA REFLECTIVE CRACK CONTROL TREATMENT	SQ YD	193	193	
50200100	STRUCTURE EXCAVATION	CU YD	326		326
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	15619		15619
51100300	SLOPE WALL 6 INCH	SQ YD	3	3	
* 51604000	DRILLED SHAFT IN ROCK	CU YD	15		15

*= SPECIALTY ITEM

ITEM NUMBER	ITEM	UNIT	QUANTITY	CONST CODE	
				100% STATE	100% STATE
				ROADWAY 0005	MIN STRS 0044
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	760	760	
52200900	CONCRETE STRUCTURES (RETAINING WALL)	CU YD	96		96
58700300	CONCRETE SEALER	SQ FT	1280		1280
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	86.6		86.6
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	1		1
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	2	2	
60602800	CONCRETE GUTTER, TYPE B	FOOT	151	151	
* 63100089	TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	2	2	
63200310	GUARDRAIL REMOVAL	FOOT	240	240	
64300240	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2	2	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5	5	
67100100	MOBILIZATION	LSUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1	1	
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	LSUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	75	75	

*= SPECIALTY ITEM

SP	ITEM NUMBER	ITEM	UNIT	QUANTITY	CONST CODE	
					100% STATE	100% STATE
					ROADWAY 0005	MIN STRS 0044
	70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	21	21	
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	269	269	
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	240	240	
	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	1	
*	X2300006	BICYCLE RAILING (PARAPET MOUNTED)	FOOT	160		160
	58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	317		317
	Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	1	1	
	Z0013798	CONSTRUCTION LAYOUT	LSUM	1	0.5	0.5
	Z0046306	PIPE UNDERDRAINS FOR STRUCTURES 6"	FOOT	189		189

*= SPECIALTY ITEM



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
BUFFALO ROCK STATE PARK			
SCALE: NTS	SHEET 2	OF 3	SHEETS
STA.	TO STA.		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	32	4
			CONTRACT NO.	46924
ILLINOIS FED. AID PROJECT				

PAVING SCHEDULE								
LOCATION		40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	44300100 AREA REFLECTIVE CRACK CONTROL TREATMENT	40603080 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	40800025 BITUMINOUS MATERIALS (PRIME COAT)	40800029 BITUMINOUS MATERIALS (TACK COAT)	44000100 PAVEMENT REMOVAL	35102000 AGGREGATE BASE COURSE, TYPE B 8"
BEGIN STATION	END STATION	TON	SQ YD	TON	POUND	POUND	SQ YD	
31+62.69	33+52.59	18.9	193	25	37 360	115	189	193
TOTAL		19	193	25	36 433	115	189	193

STEEL PLATE GUARDRAIL SCHEDULE					
LOCATION		Z3001002 GUARDRAIL AGGREGATE EROSION CONTROL	63200310 GUARDRAIL REMOVAL	63100089 TRAFFIC BARRIER TERMINAL, TYPE 6B	
BEGIN STATION	OFFSET	END STATION	OFFSET	TON	FOOT
31+39.96	10.41' LT	31+77.63	10.80' LT	0.5	38
31+77.63	10.80' LT	33+36.78	11.40' LT		163
33+36.78	11.40' LT	33+79.29	11.14' LT	0.5	39
TOTAL				1	240

PAVEMENT MARKING SCHEDULE				
LOCATION		70300280 TEMPORARY PAVEMENT MARKING LINE 24"	78001110 PAINT PAVEMENT MARKING - LINE 4"	
BEGIN STATION	END STATION	FOOT	WHITE FOOT	YELLOW FOOT
28+22.61		10.5		
35+34.30		10.5		
31+63.25	33+52.42		192	48
SUBTOTAL			192	48
TOTAL		21		240

MAINTENANCE OF TRAFFIC SCHEDULE						
LOCATION		64300240 IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	67000400 ENGINEER'S FIELD OFFICE, TYPE A	70400100 TEMPORARY CONCRETE BARRIER	70102020 URBAN LANE CLOSURE, 2L 2W, UNDIVIDED	89000100 TEMPORARY TRAFFIC SIGNAL INSTALLATION
BEGIN STATION	END STATION	EACH	CAL MO	FOOT	LSUM	EACH
31+20.70	33+94.45	2	3	269	1	1
STATION	OFFSET					
28+55.20	16.5 RT					
28+78.76	15.3 LT					
34+58.26	13.6 RT					
34+84.67	12.8 LT					
TOTAL		2	3	268.75	1	1

SEEDING SCHEDULE				
LOCATION				25000300 SEEDING, CLASS 3
BEGIN STA.	END STA.	LENGTH	WIDTH	ACRE
31+62.66	33+51.81	189.15'	10' LT	0.043
TOTAL				0.043

DRAINAGE SCHEDULE								
LOCATION		51100300 SLOPE WALL 6 INCH	59100100 GEOCOMPOSITE WALL DRAIN	60100060 CONCRETE HEADWALLS FOR PIPE DRAINS	X0322278 RODENT SHIELDS	Z0046306 PIPE UNDERDRAINS FOR STRUCTURES 6"	60600095 CLASS SI CONCRETE (OUTLET)	60602800 CONCRETE GUTTER, TYPE B
BEGIN STATION	END STATION	SQ YD	SQ YD	EACH	EACH	FOOT	CU YD	FOOT
33+37.40	33+16.90		7.7			22.6		21.1
33+16.90	33+00.65		7.2			17		16.3
33+00.65	32+93.15		3.9			10.5		8.1
32+93.15	32+71.19		14.3			29		22
32+71.19	32+35.77		18.6			35.5		35.4
32+35.77	32+13.27		12.8			24.5		23.4
32+13.27	31+98.02		9.1			17.8		15.3
31+98.02	31+78.23	3	13	1	1	31.9		9.2
31+88.84	31+60.49						2	
TOTAL		3	66.6	1	1	109	2	150.8

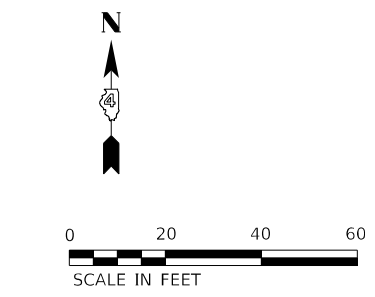
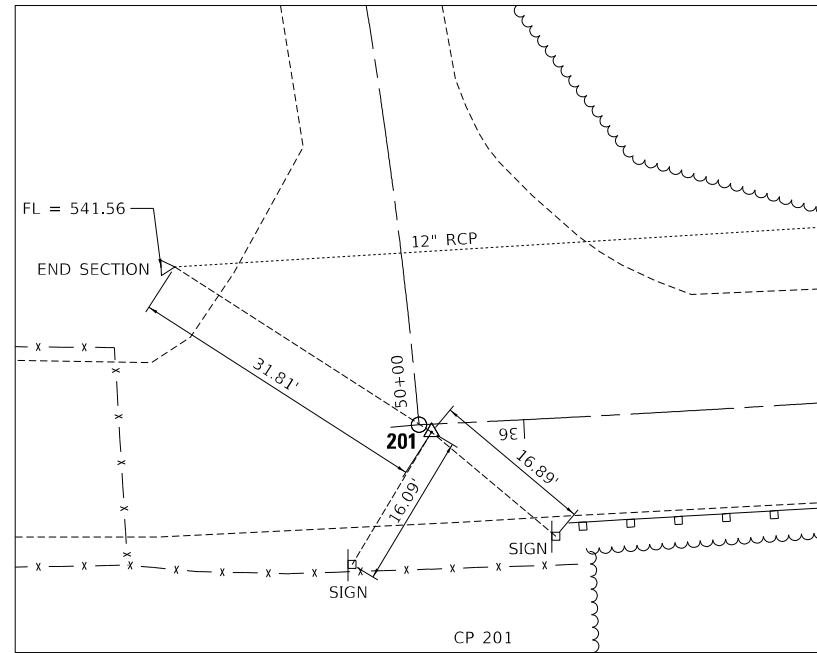
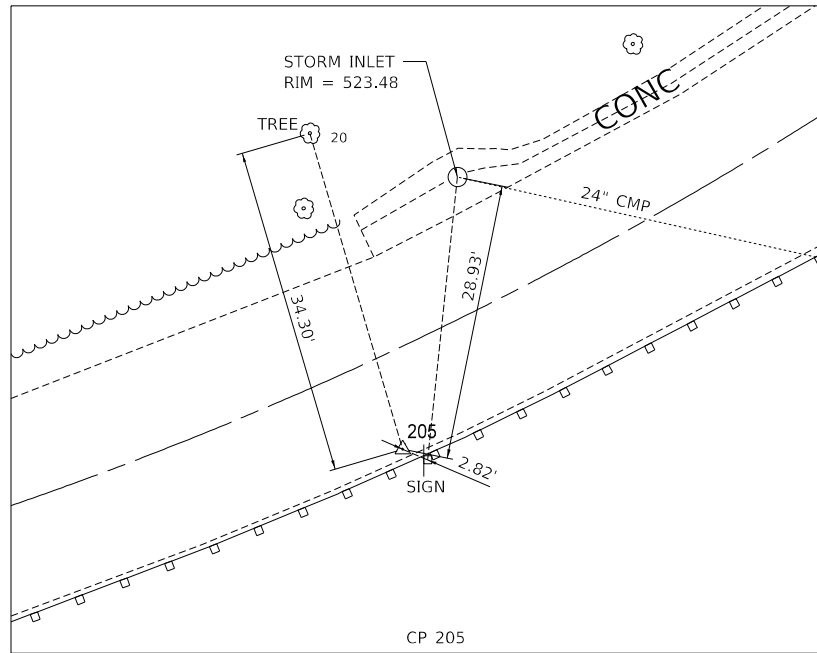


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROJECT OVERVIEW			
BUFFALO ROCK STATE PARK			
SCALE: 1"=40'	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	32	6
			CONTRACT NO. 46924	
ILLINOIS FED. AID PROJECT				



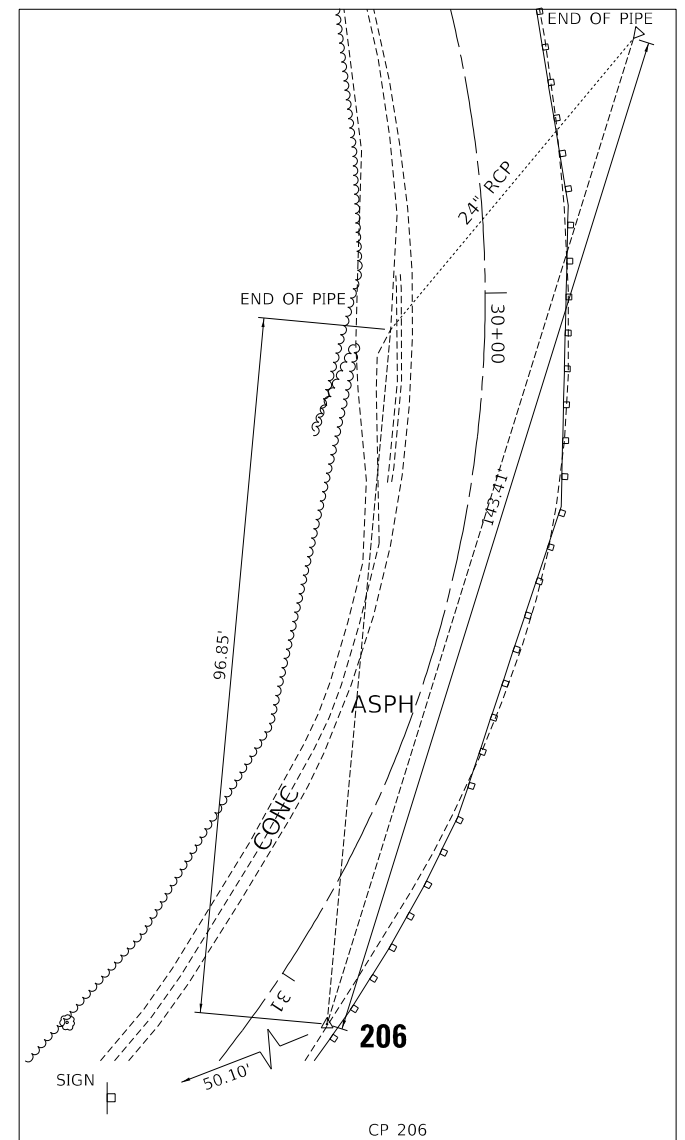
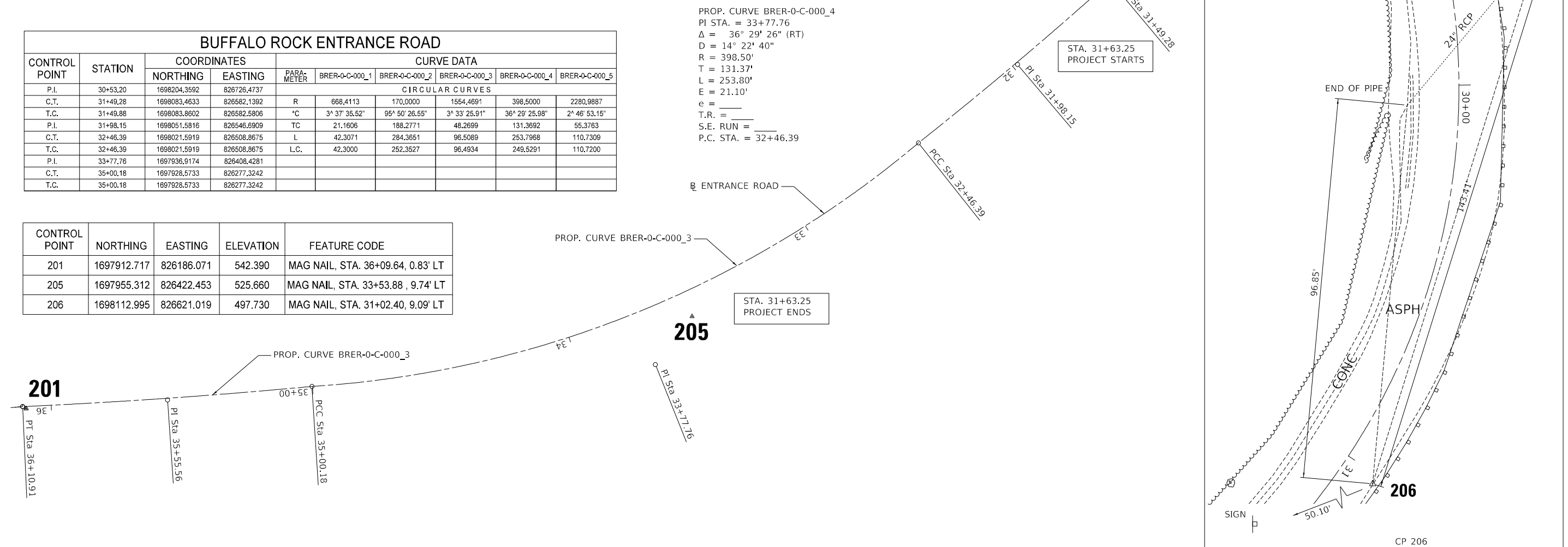
PROP. CURVE BRER-0-C-000_2
 PI STA. = 30+53.20
 $\Delta = 95^\circ 50' 27''$ (RT)
 $D = 33^\circ 42' 12''$
 $R = 170.00'$
 $T = 188.28'$
 $L = 284.37'$
 $E = 83.67'$
 $e = ______$
 $T.R. = ______$
 $S.E. RUN = ______$
 $P.C. STA. = 28+64.92$
 $P.T. STA. = 31+49.28$

PROP. CURVE BRER-0-C-000_3
 PI STA. = 31+98.15
 $\Delta = 3^\circ 33' 26''$ (RT)
 $D = 3^\circ 41' 09''$
 $R = 1,554.47'$
 $T = 48.27'$
 $L = 96.51'$
 $E = 0.75'$
 $e = ______$
 $T.R. = ______$
 $S.E. RUN = ______$
 $P.C. STA. = 31+49.88$
 $P.T. STA. = 32+46.39$

PROP. CURVE BRER-0-C-000_4
 PI STA. = 33+77.76
 $\Delta = 36^\circ 29' 26''$ (RT)
 $D = 14^\circ 22' 40''$
 $R = 398.50'$
 $T = 131.37'$
 $L = 253.80'$
 $E = 21.10'$
 $e = ______$
 $T.R. = ______$
 $S.E. RUN = ______$
 $P.C. STA. = 32+46.39$

BUFFALO ROCK ENTRANCE ROAD									
CONTROL POINT	STATION	COORDINATES		PARAMETER	CURVE DATA				
		NORTHING	EASTING		BRER-0-C-000_1	BRER-0-C-000_2	BRER-0-C-000_3	BRER-0-C-000_4	BRER-0-C-000_5
CIRCULAR CURVES									
P.I.	30+53.20	1698204.3592	826726.4737						
C.T.	31+49.28	1698083.4633	826582.1392	R	668,4113	170,0000	1554,4691	398,5000	2280,9887
T.C.	31+49.88	1698083.8602	826582.5806	*C	3° 37' 35.52"	95° 50' 26.55"	3° 33' 25.91"	36° 29' 25.98"	2° 46' 53.15"
P.I.	31+98.15	1698051.5816	826546.6909	TC	21.1806	188.2771	48.2699	131.3692	55.3763
C.T.	32+46.39	1698021.5919	826508.8675	L	42.3071	284.3651	96.5089	253.7968	110.7309
T.C.	32+46.39	1698021.5919	826508.8675	L.C.	42.3000	252.3527	96.4934	249.5291	110.7200
P.I.	33+77.76	1697936.9174	826408.4281						
C.T.	35+00.18	1697928.5733	826277.3242						
T.C.	35+00.18	1697928.5733	826277.3242						

CONTROL POINT	NORTHING	EASTING	ELEVATION	FEATURE CODE
201	1697912.717	826186.071	542.390	MAG NAIL, STA. 36+09.64, 0.83' LT
205	1697955.312	826422.453	525.660	MAG NAIL, STA. 33+53.88, 9.74' LT
206	1698112.995	826621.019	497.730	MAG NAIL, STA. 31+02.40, 9.09' LT



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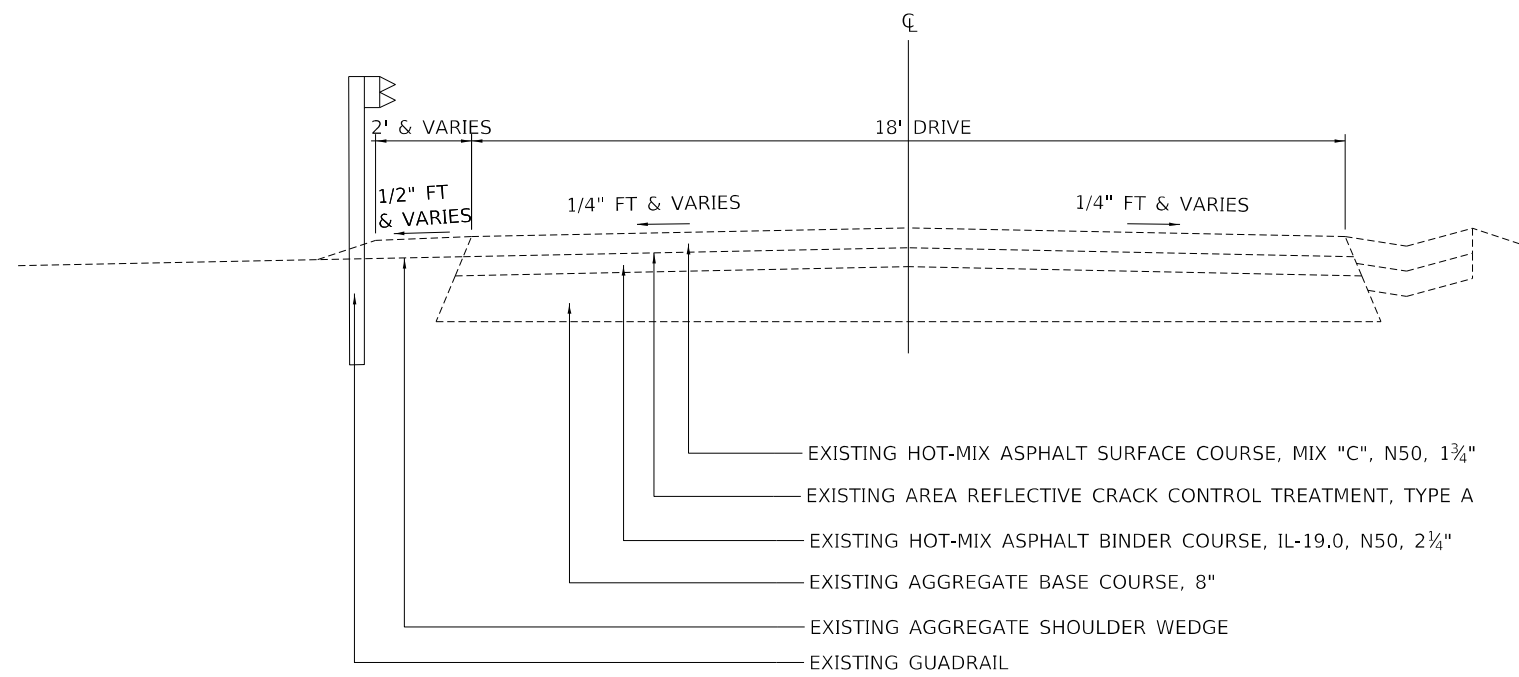
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

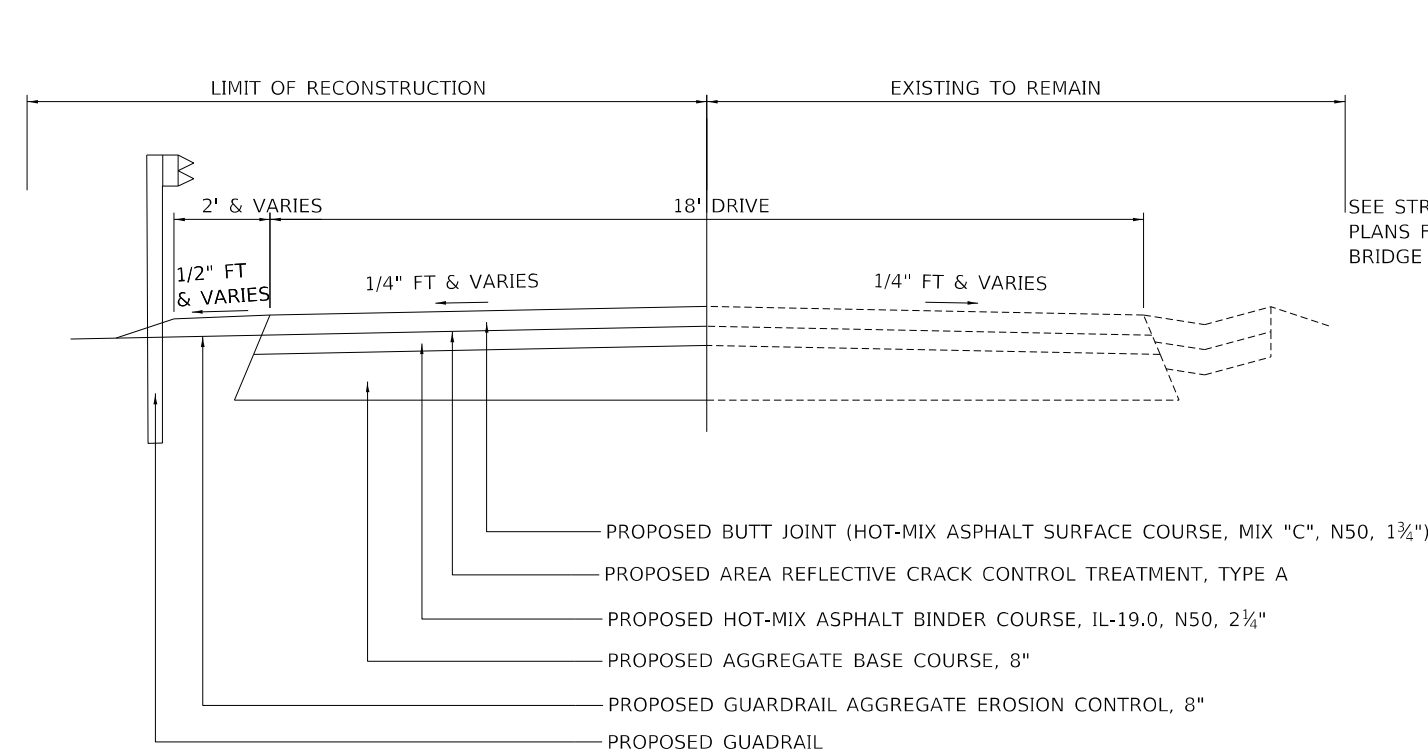
ALIGNMENT, BENCHMARKS & TIES
BUFFALO ROCK STATE PARK

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	32	7
WESTERN AVE RECONSTRUCTION			CONTRACT NO. 46924	
		ILLINOIS	FED. AID PROJECT	

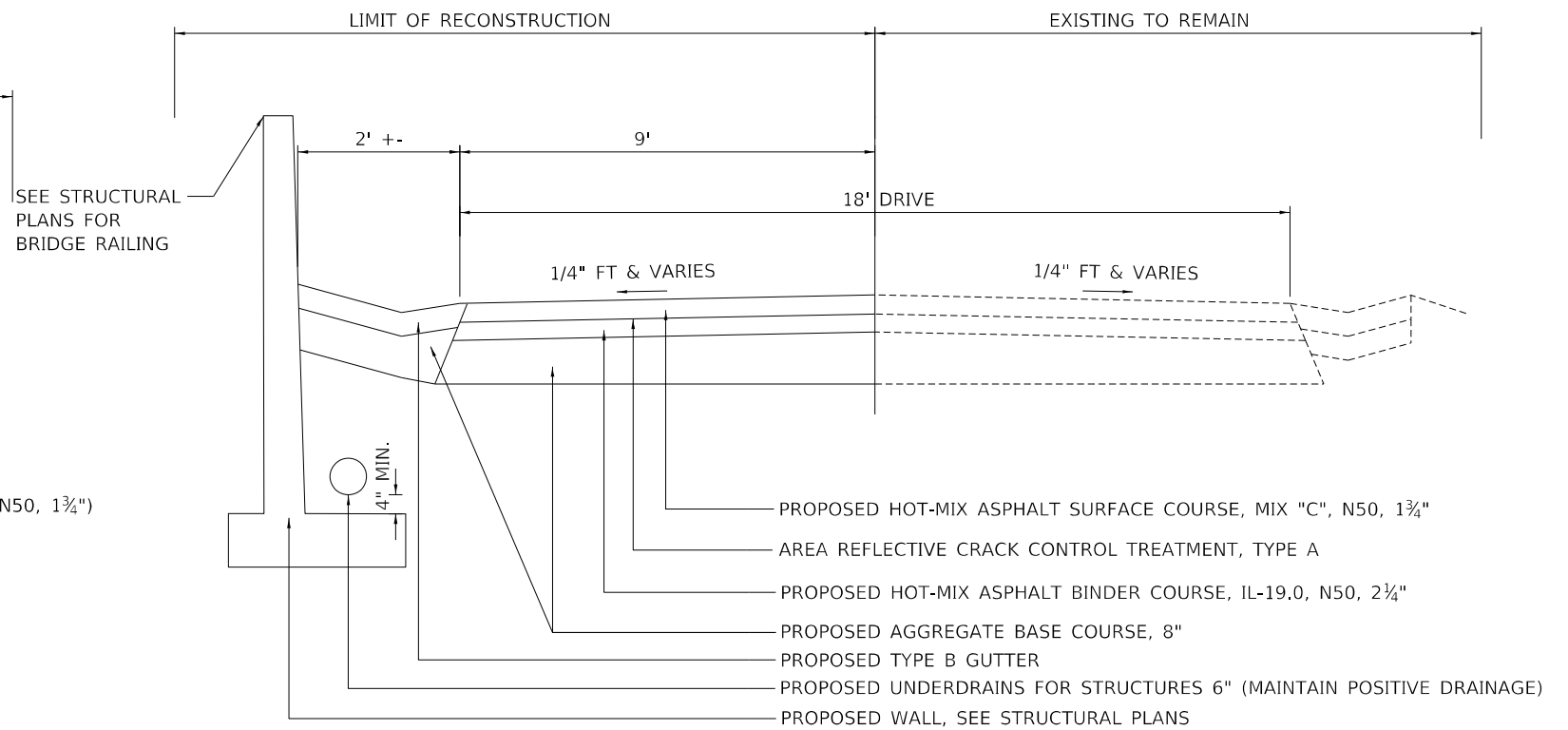


EXISTING TYPICAL SECTION



PROPOSED TYPICAL SECTION

STA. 31+63.26 TO STA. 31+78.26
 STA. 33+37.40 TO STA. 33+52.40



PROPOSED TYPICAL SECTION

STA. 31+78.26 TO STA. 33+37.40



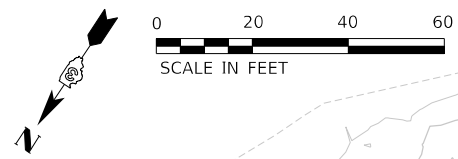
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

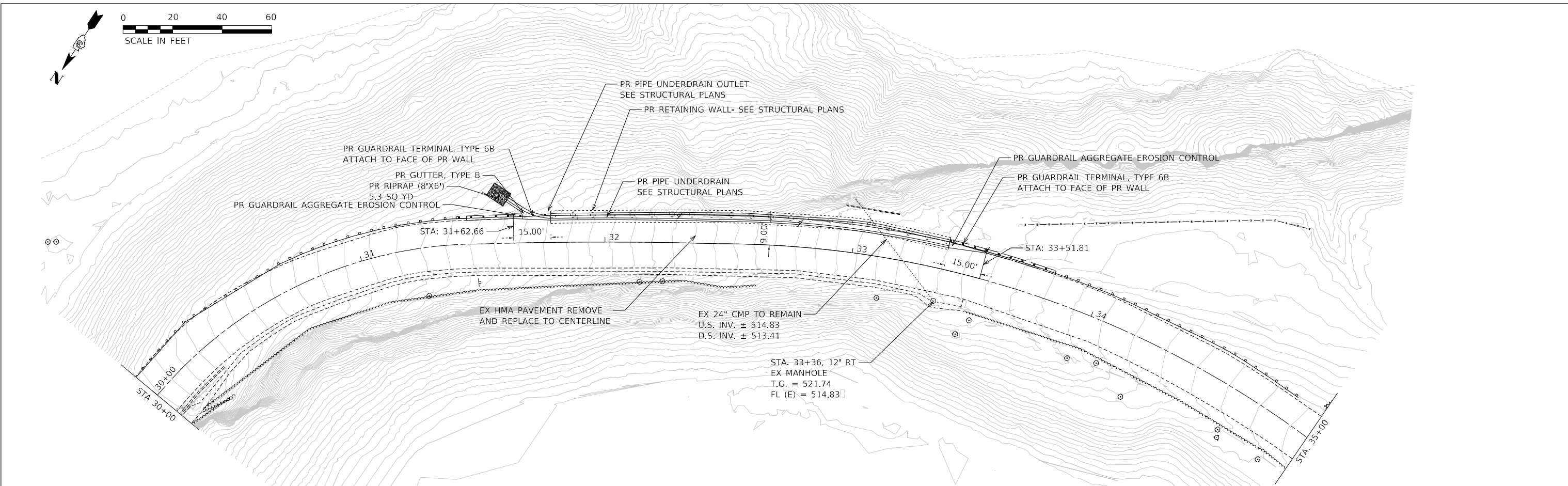
**TYPICAL SECTIONS
 BUFFALO ROCK STATE PARK**

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

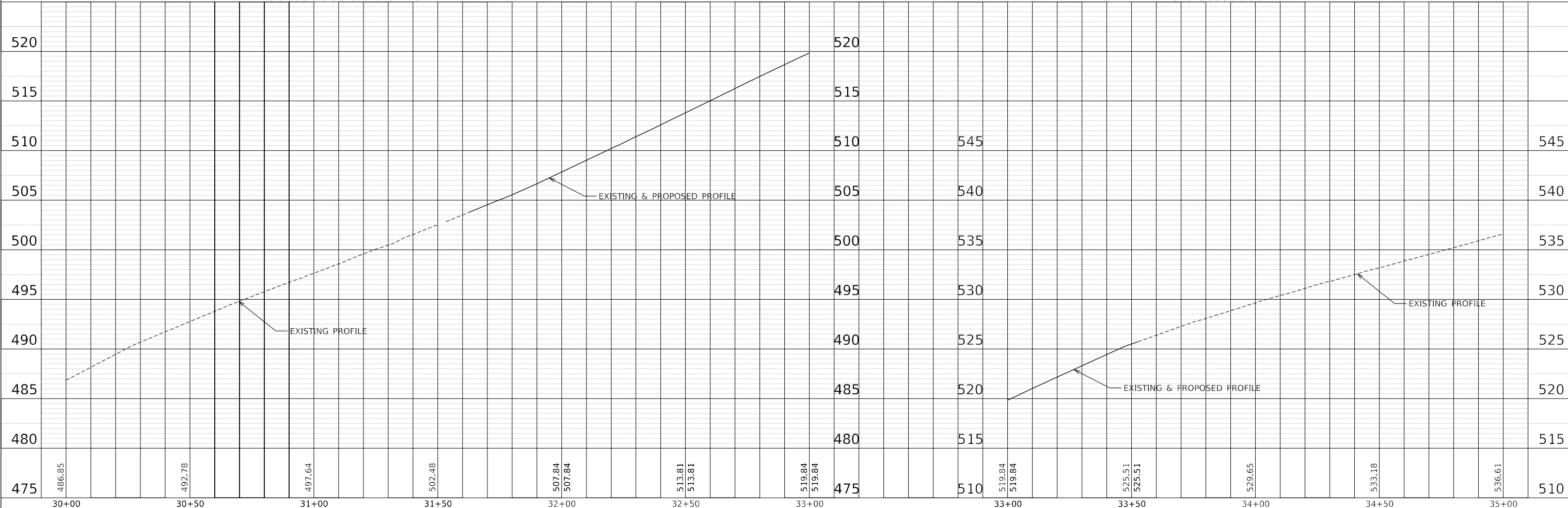
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	32	8
			CONTRACT NO.	46924
ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		

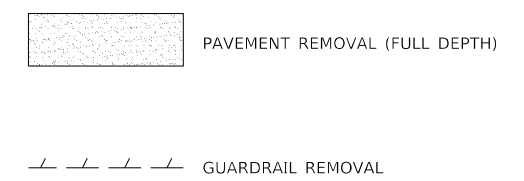
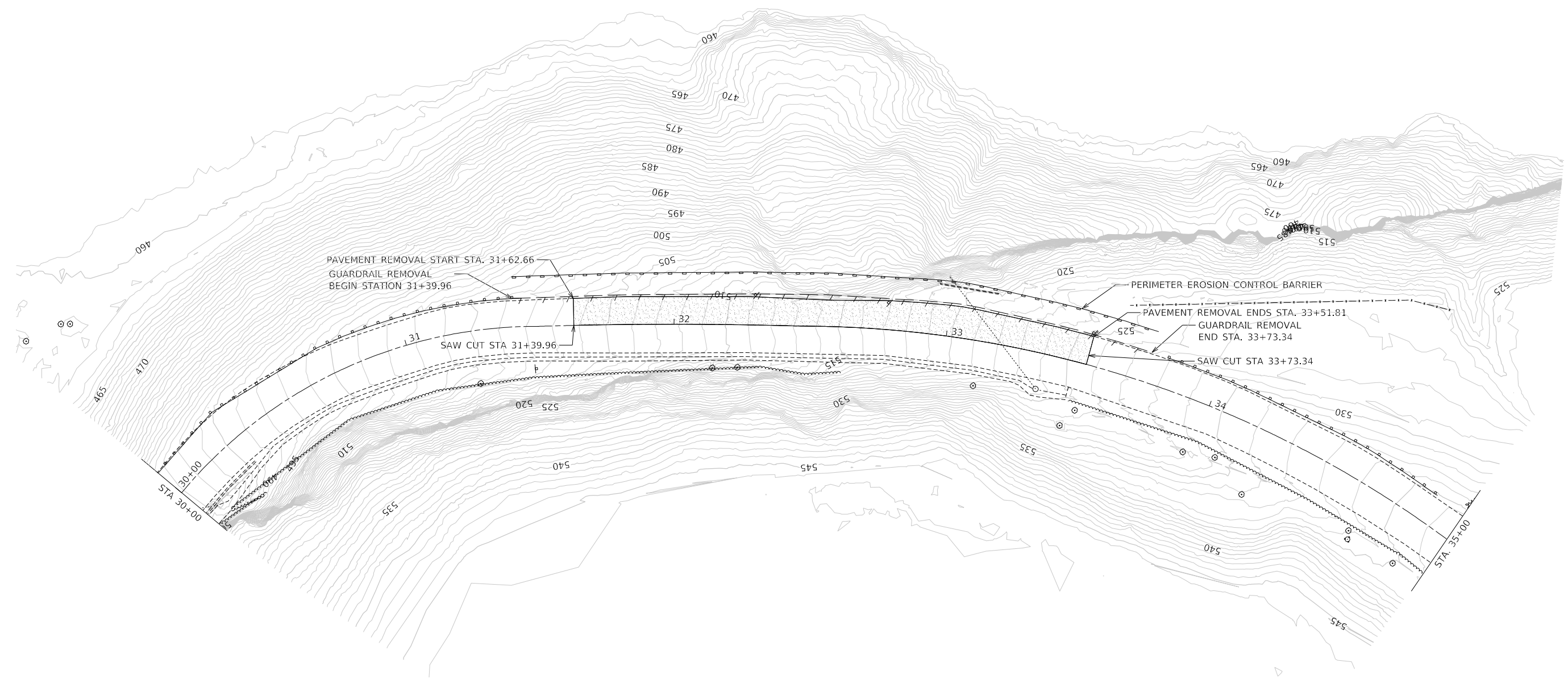
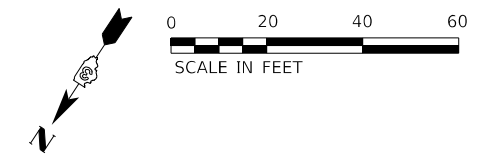


PROFILE	SURVEYED	BY	DATE
	PLOTTED		
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	NOTE BOOK NO.		
	CADD FILE NAME		



18300002-Plan-Profile.dgn

	USER NAME = Curtisl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE BUFFALO ROCK STATE PARK				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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													ILLINOIS FED. AID PROJECT



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL
BUFFALO ROCK STATE PARK**

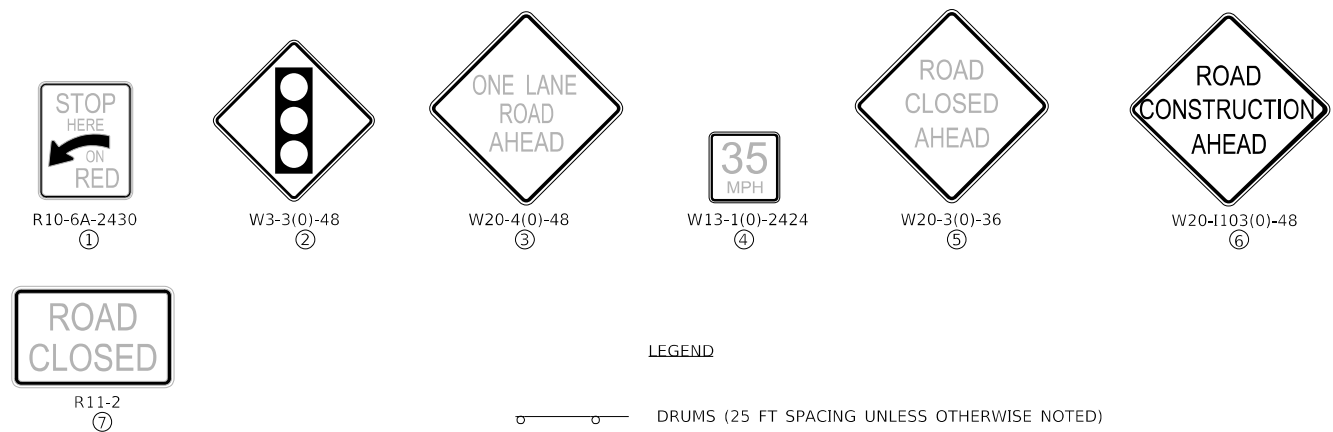
SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	32	10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 46924	

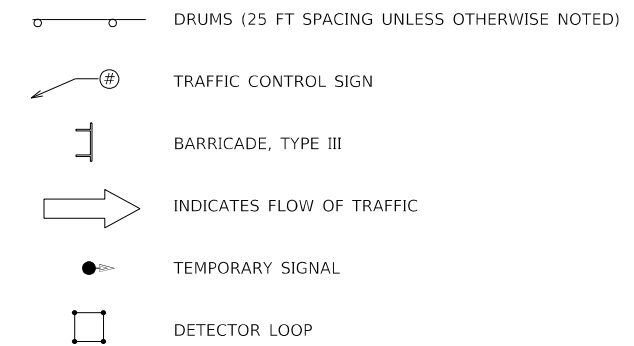
MAINTENANCE OF TRAFFIC NOTES (ALL STAGES):

1. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTION OF THE ILLINOIS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION); THE APPLICABLE GUIDELINES CONTAINED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CURRENT EDITION, AS WELL AS THE ILLINOIS SUPPLEMENT: TRAFFIC CONTROL PLANS; AND THE REFERENCED IDOT HIGHWAY STANDARDS.
2. NO DEVIATIONS FROM THE APPROVED TRAFFIC CONTROL PLAN WILL BE ALLOWED WITHOUT WRITTEN PERMISSION OF THE ENGINEER.
3. TRAFFIC CONTROL DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS WITH APPROVAL BY THE ENGINEER. MINIMUM TAPER LENGTHS, TAPER RATES, AND SIGN SPACING SHALL BE MAINTAINED.
4. FLASHING LIGHTS SHALL BE PLACED ON ALL TYPE III BARRICADES IN ACCORDANCE WITH IDOT HIGHWAY STANDARD 701901-08. STEADY BURN LIGHTS SHALL BE PLACED ON ALL DRUMS AND BARRICADES (EXCEPT TYPE III BARRICADES) IN ACCORDANCE WITH HIGHWAY STANDARD 701901-08.
5. CONTRACTOR IS RESPONSIBLE FOR SUPPLYING METHOD OF POWER FOR TEMPORARY SIGNALS.
6. BUFFALO ROCK STATE PARK IS TO REMAIN OPEN DURING CONSTRUCTION TO ALLOW ACCESS TO THE RESIDENTS OF THE PARK. ONE LANE SHALL BE MAINTAINED AS OPEN, UNLESS GIVEN EXPRESS PERMISSION FROM THE ENGINEER AND IDNR. IDNR TO PROVIDE SPECIFIC DAYS/ DATES THAT WILL BE ALLOWED TO HAVE A TEMPORARY FULL CLOSURE TO THE PARK.
7. EXISTING SIGNS WITHIN THE WORKZONE ARE TO BE COVERED DURING THE EXTEND OF CONSTRUCTION.

SIGN LEGEND

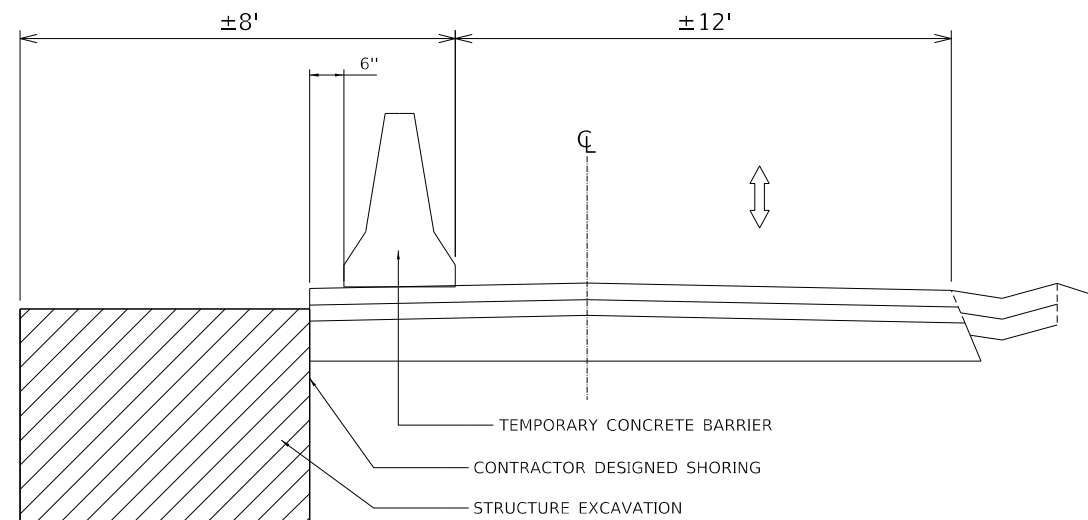


LEGEND



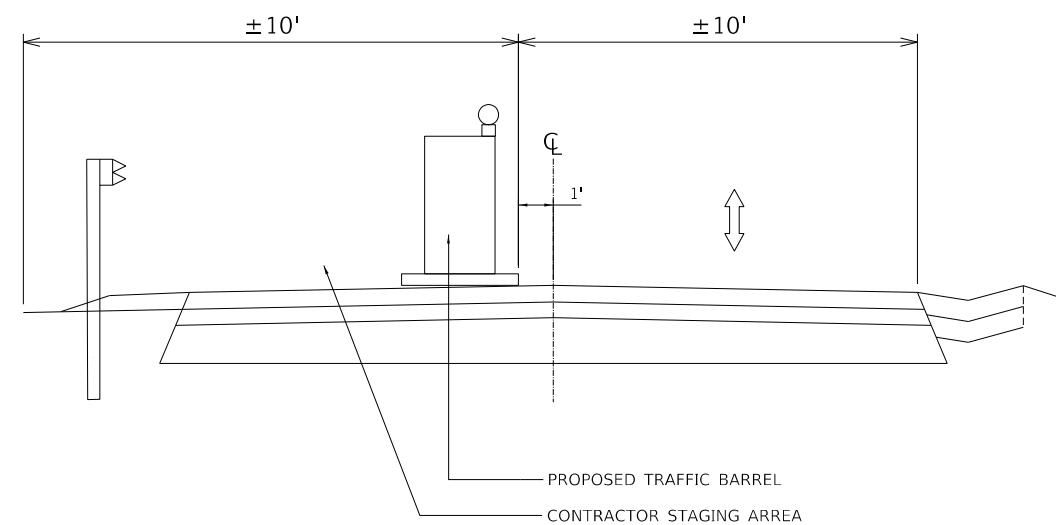
HIGHWAY STANDARDS:

701321-18
BLR 17-4
BLR 21-9



STAGE 1A TYPICAL SECTION

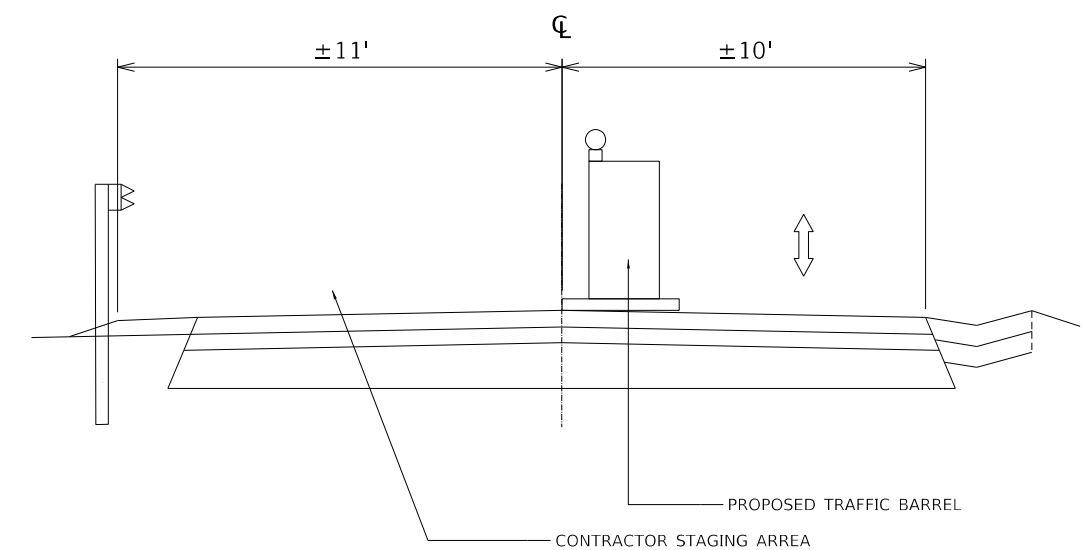
STA. 31+74.27 TO STA. 33+41.33



STAGE 1A TYPICAL SECTION

STA. 28+04.79 TO STA. 31+74.27

STA. 33+41.33 TO STA. 35+34.30



STAGE 2 TYPICAL SECTION

STA. 28+04.79 TO STA. 35+34.30



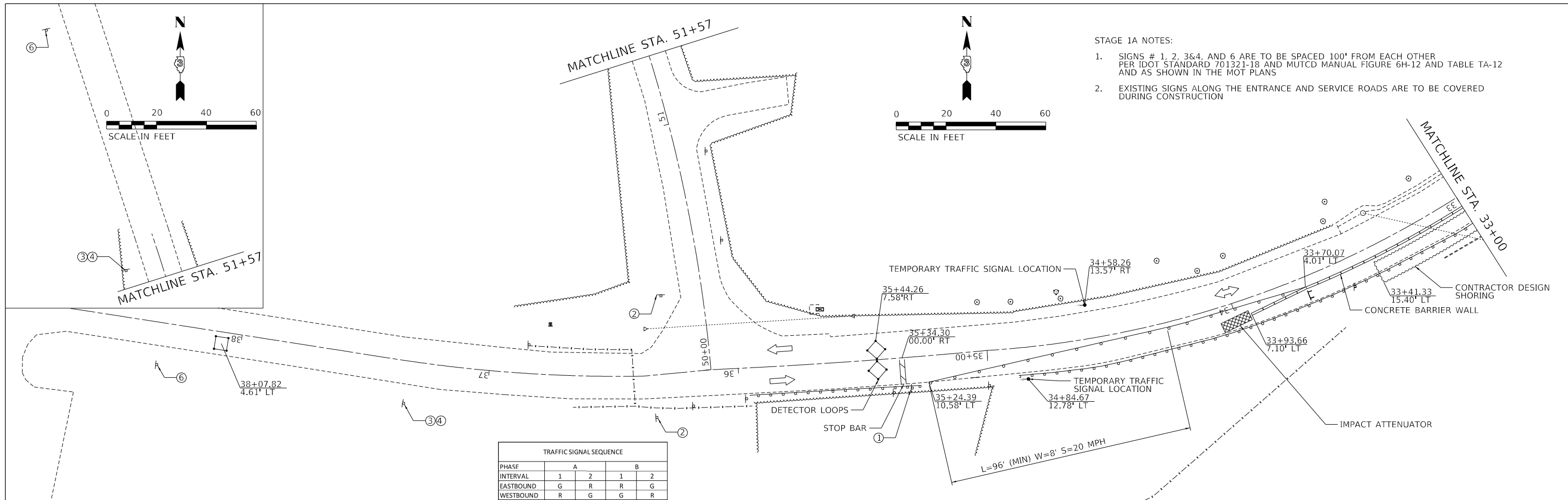
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING PLAN - GENERAL NOTES
BUFFALO ROCK STATE PARK

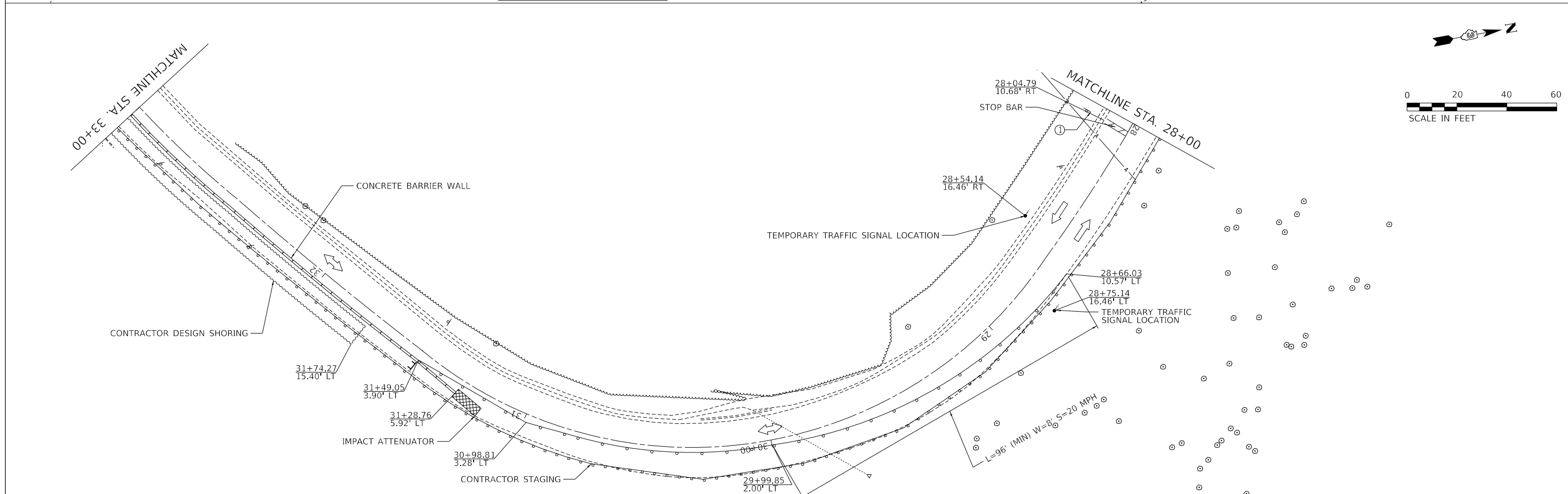
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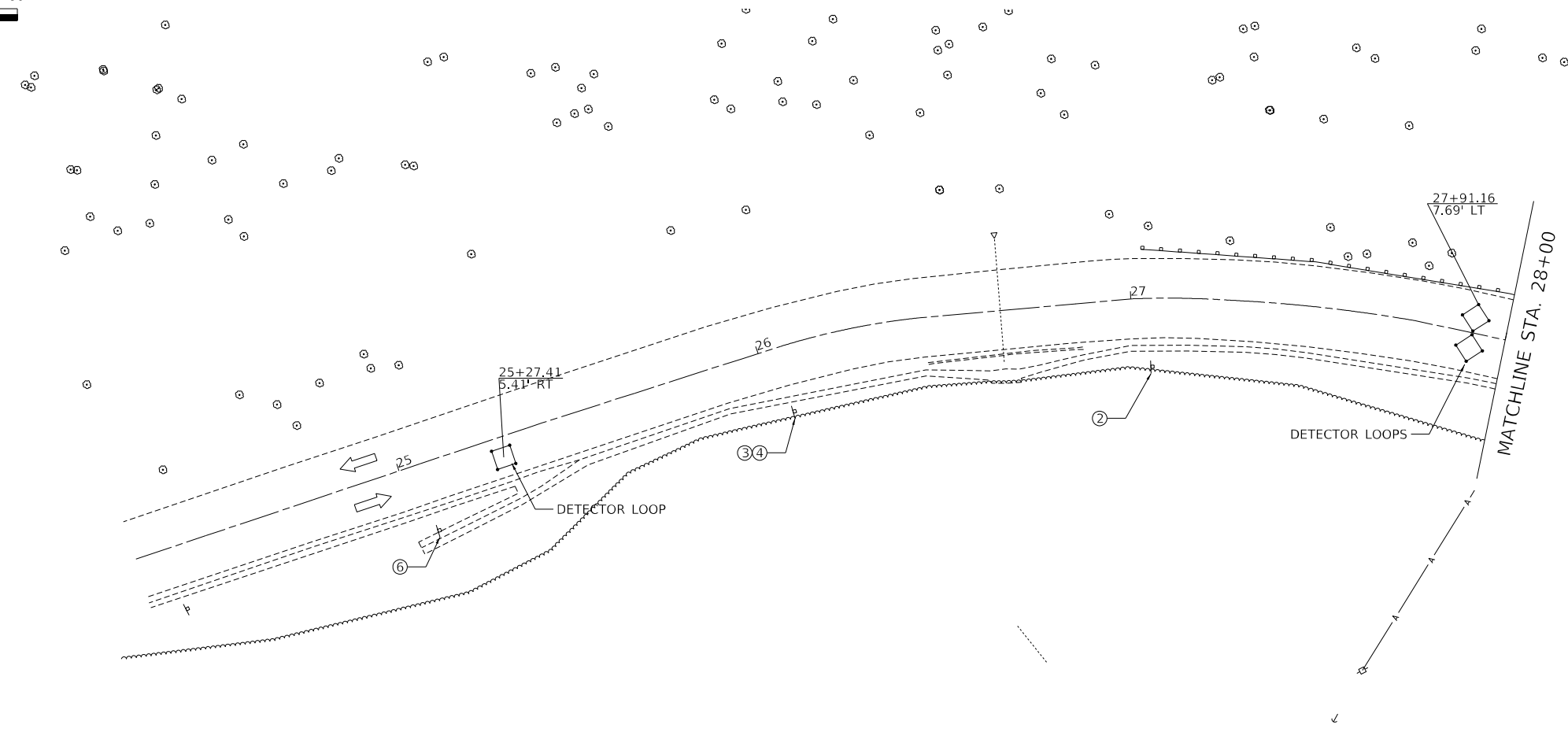
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	32	11
ILLINOIS FED. AID PROJECT			CONTRACT NO.	46924



STAGE 1A NOTES:

- SIGNS # 1, 2, 3&4, AND 6 ARE TO BE SPACED 100' FROM EACH OTHER PER IDOT STANDARD 701321-18 AND MUTCD MANUAL FIGURE 6H-12 AND TABLE TA-12 AND AS SHOWN IN THE MOT PLANS
- EXISTING SIGNS ALONG THE ENTRANCE AND SERVICE ROADS ARE TO BE COVERED DURING CONSTRUCTION



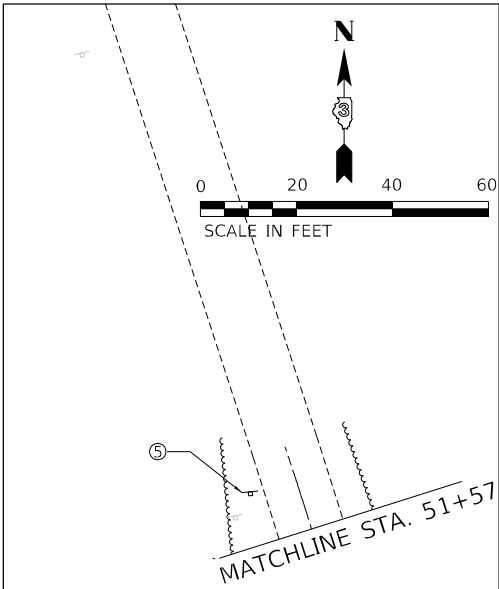


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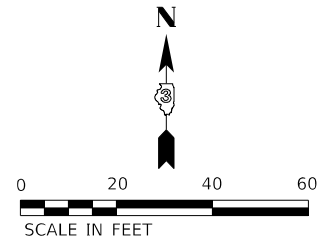
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGING PLAN – STAGE 1A BUFFALO ROCK STATE PARK			
SCALE: 1"=20'	SHEET 3	OF 7 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	32	13
			CONTRACT NO. 46924	
ILLINOIS FED. AID PROJECT				



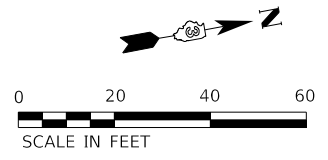
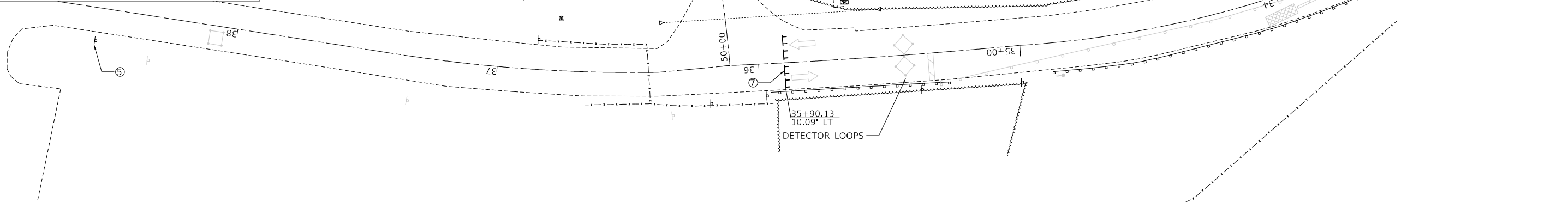
MATCHLINE STA. 51+57



STAGE 1B NOTES:

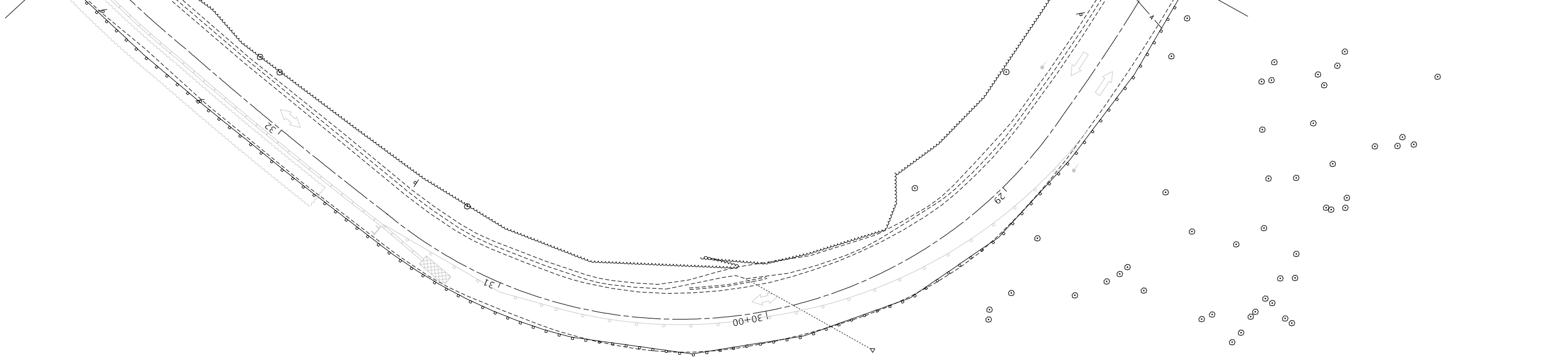
1. STAGE 1B IS FOR TEMPORARY FULL CLOSURE OF THE ENTRANCE ROAD FOR CONSTRUCTION PURPOSES
2. IDNR TO PROVIDE DAYS/ DATE ALLOWED FOR FULL CLOSURE OF PARK
3. STAGE 1A TRAFFIC CONTROL IS TO REMAIN IN-PLACE DURING THE USE OF STAGE 1B.
4. ALL SIGNAGE FROM STAGE 1A IS TO REMAIN IN PLACE AND BE COVERED DURING THE USE OF STAGE 1B
5. SIGN #5 IS TO BE PLACED 500' FROM THE TYPE III BARRICADES UNLESS NOTED IN THE MOT PLANS PER IDOT STANDARD BLR 21-9

MATCHLINE STA. 33+00



MATCHLINE STA. 33+00

MATCHLINE STA. 28+00



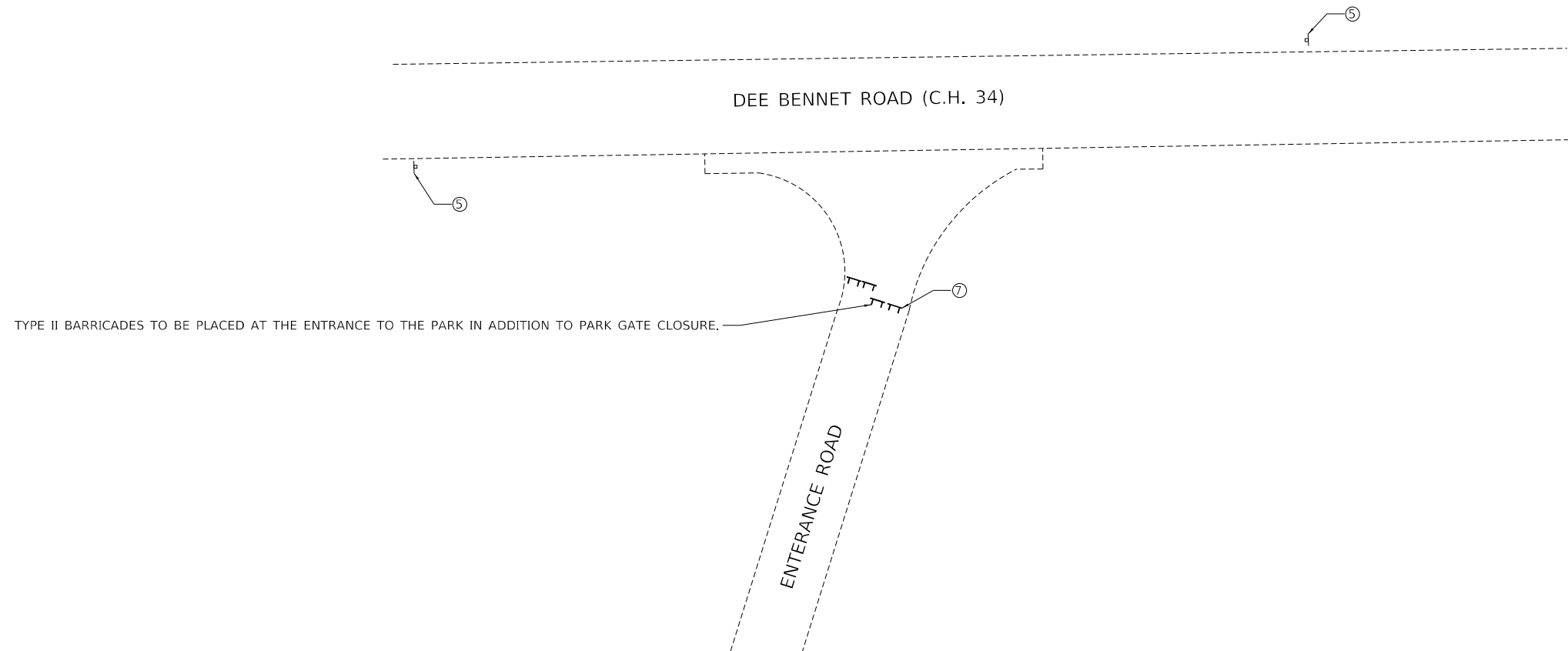
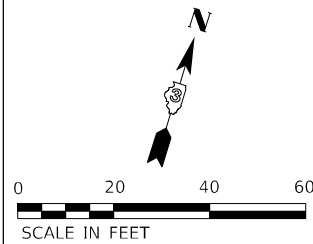
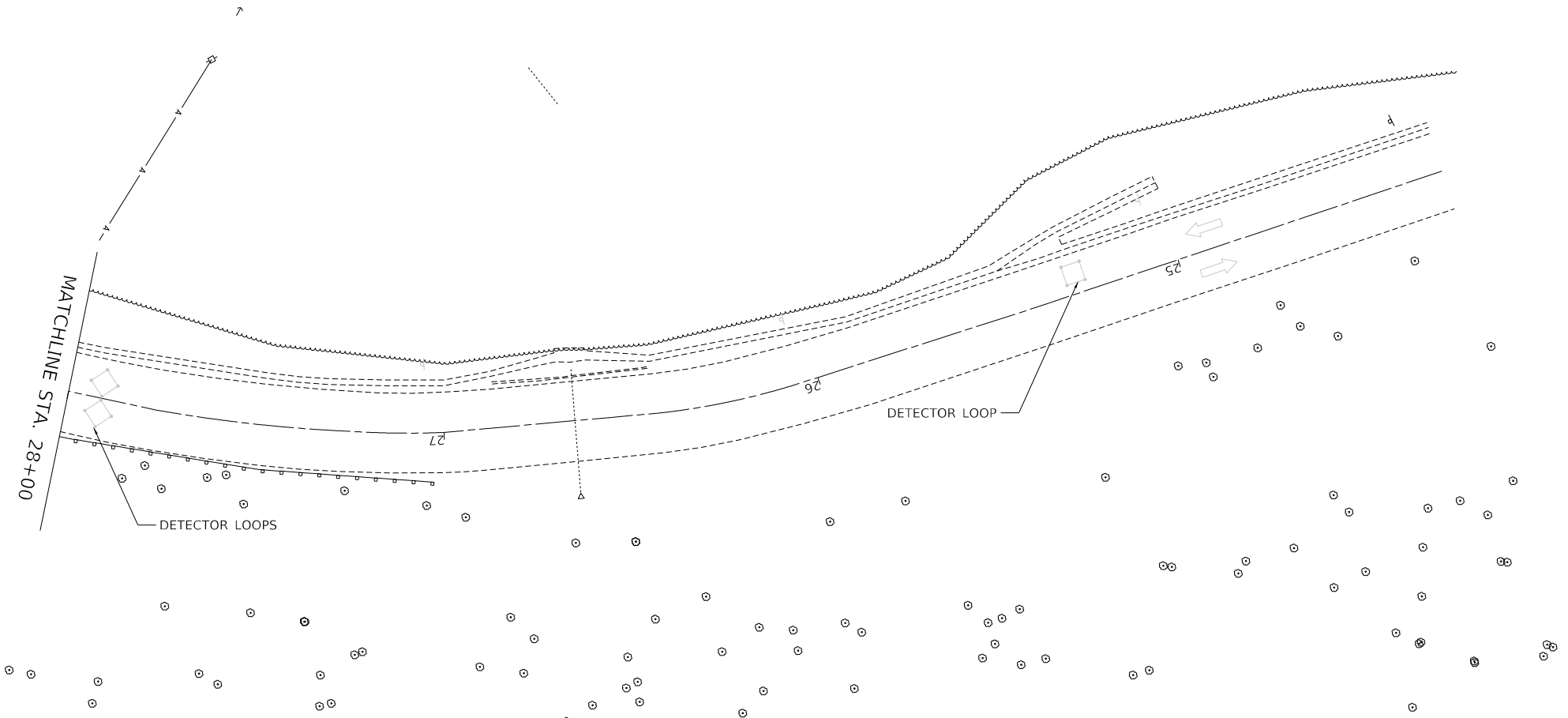
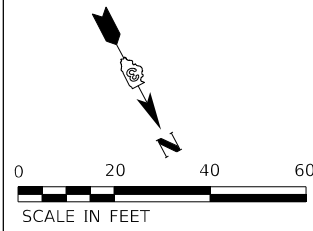
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING PLAN - STAGE 1B
BUFFALO ROCK STATE PARK

SCALE: 1"=20' SHEET 4 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	32	14
			CONTRACT NO. 46924	
ILLINOIS FED. AID PROJECT				



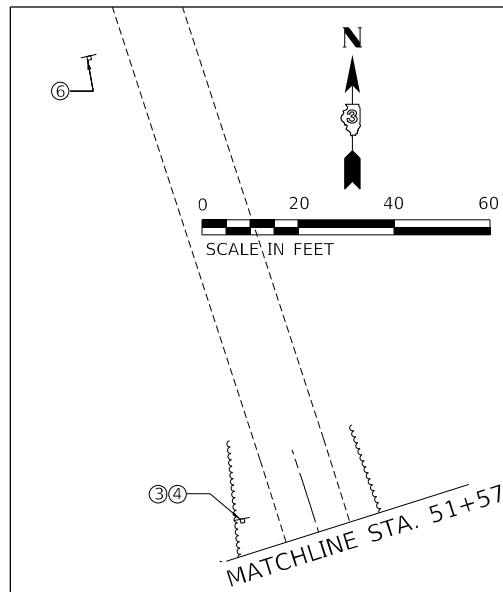
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

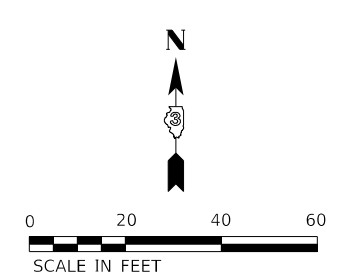
**STAGING PLAN – STAGE 1B
BUFFALO ROCK STATE PARK**

SCALE: 1"=20' SHEET 5 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	32	15
ILLINOIS FED. AID PROJECT			CONTRACT NO. 46924	



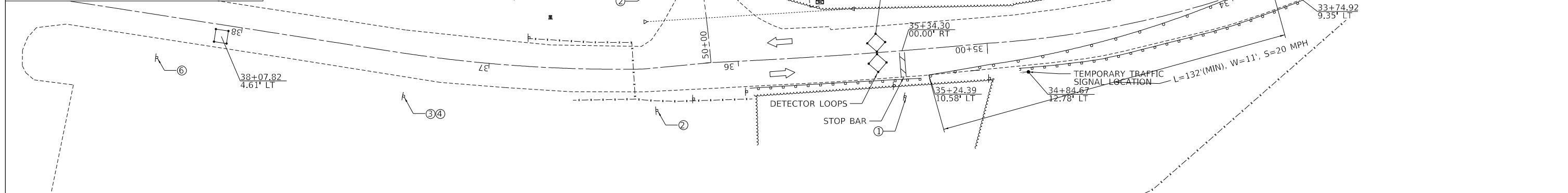
MATCHLINE STA. 51+57



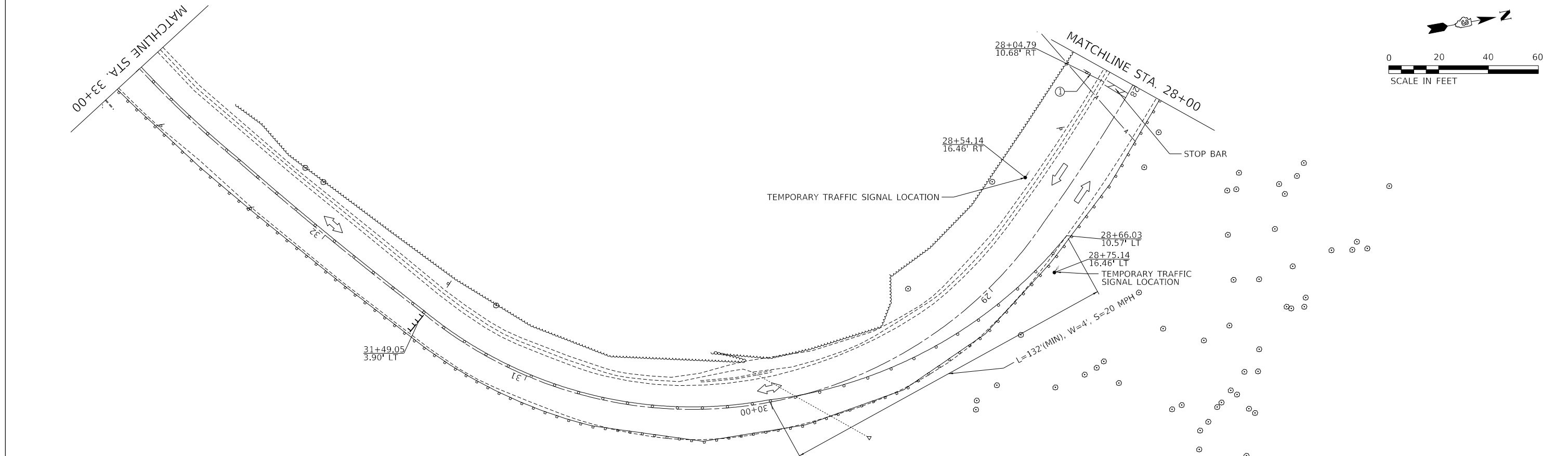
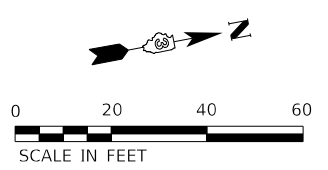
STAGE 2 NOTES:

1. SIGNS AND SIGNALS FROM STAGE 1A ARE TO REMAIN IN PLACE FOR STAGE 2
2. STAGE 2 REQUIRES AN ADJUSTMENT FOR BARRELS AND REMOVAL FOR TRAFFIC BARRIER WALL FOR ROAD RECONSTRUCTION AFTER COMPLETION OF RETAINING WALL CONSTRUCTION.

MATCHLINE STA. 33+00



MATCHLINE STA. 33+00

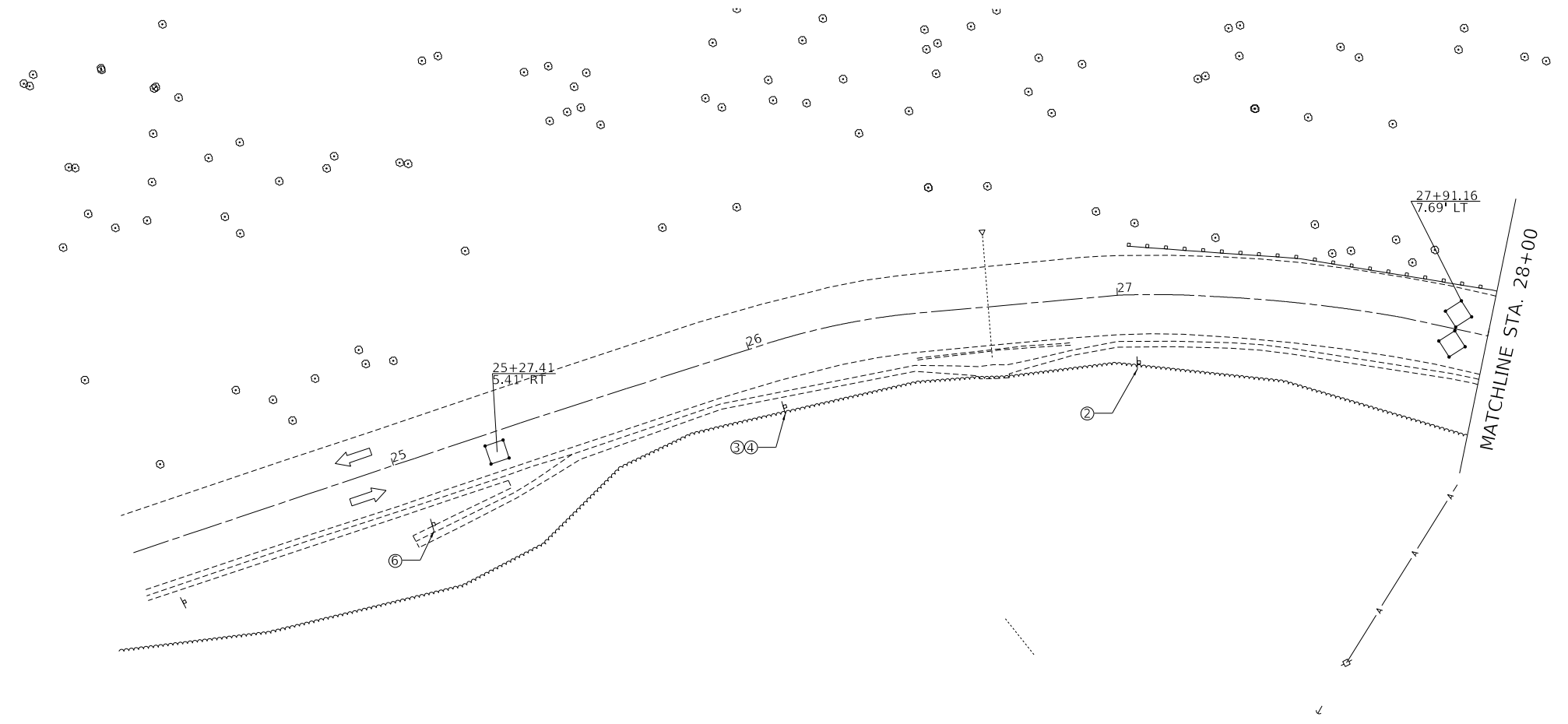
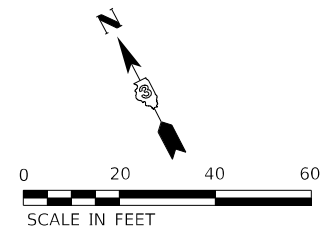


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGING PLAN - STAGE 2			
BUFFALO ROCK STATE PARK			
SCALE: 1"=20'	SHEET 6	OF 7 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	32	16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 46924	



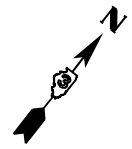
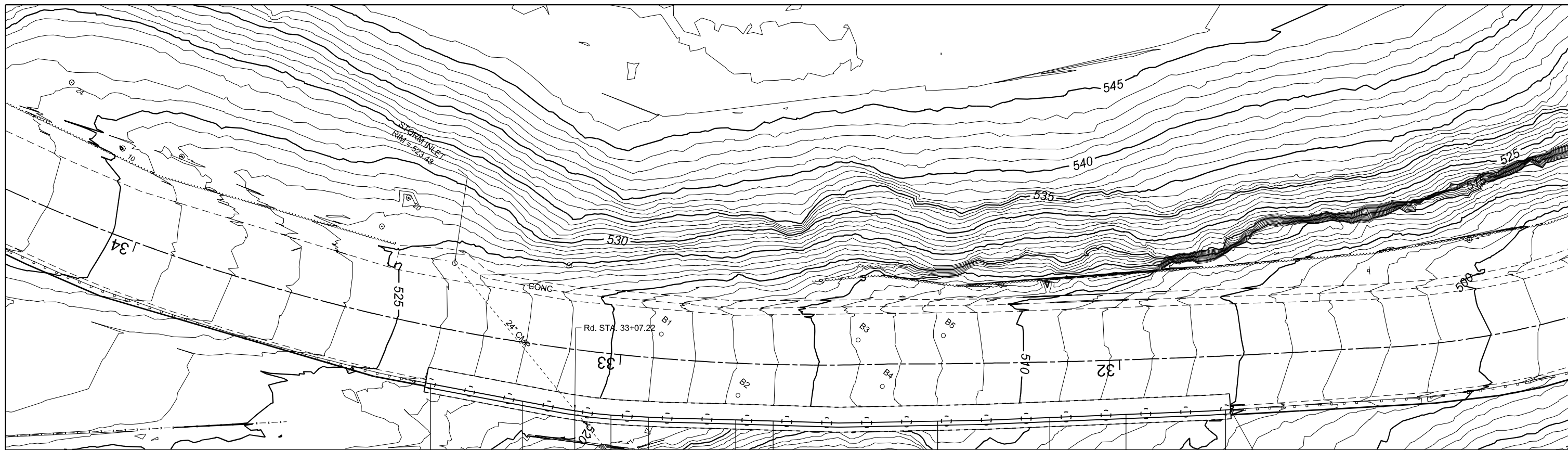
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING PLAN – STAGE 2
BUFFALO ROCK STATE PARK

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	32	17
			CONTRACT NO.	46924
ILLINOIS FED. AID PROJECT				



TOP OF WALL: 527.0"
 BTM OF WALL: 518.0"
 BEGIN DS STA.: 0+00.00

TOP OF WALL: 524.8"
 WALL STA.: 0+20.50

TOP OF WALL: 523.5"
 WALL STA.: 0+29.25

TOP OF WALL: 522.7"
 WALL STA.: 0+36.75

TOP OF WALL: 522.0"
 WALL STA.: 0+44.25

TOP OF WALL: 519.6"
 WALL STA.: 0+61.75

TOP OF WALL: 519.0"
 WALL STA.: 0+69.25

TOP OF WALL: 515.0"
 WALL STA.: 1+02.25

TOP OF WALL: 512.5"
 WALL STA.: 1+24.75

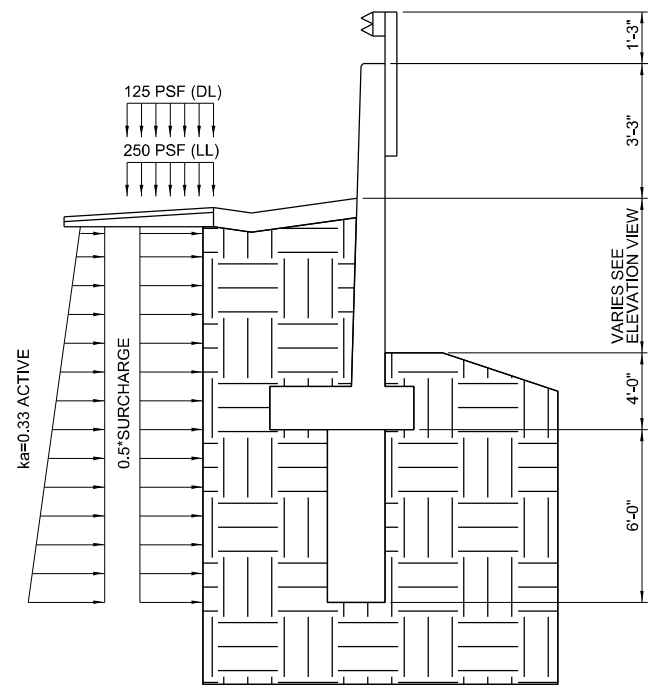
TOP OF WALL: 510.5"
 WALL STA.: 1+40.00

TOP OF WALL: 508.0"
 BTM OF WALL: 499.0"
 DS STA.: 1+60.00

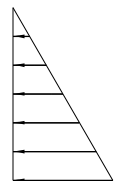
BACK FACE OF WALL TO MATCH
 BACK FACE OF GUARDRAIL

*NOTE: TOP ELEVATIONS OF WALL SHOWN ARE GIVEN AS THE
 BEST PRESENT KNOWLEDGE BUT WITHOUT GUARANTEE
 OF ACCURACY. MINIMUM HEIGHT OF 3'-3" ABOVE THE
 SHOULDER IS REQUIRED

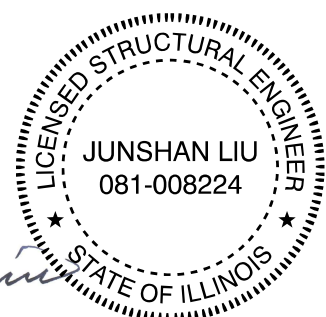
PLAN



DESIGN PRESSURES



3.4 PASSIVE



SIGNATURE AND SEAL APPLY TO
 SHEETS NO. 18-26 ONLY
 Date: 8/19/2021 EXP.: 11/30/2022

1.0 DESIGN CRITERIA:

DESIGN SPECIFICATION:

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION, 2020
 ILLINOIS DOT BRIDGE DESIGN MANUAL, 2012.

DESIGN LOADS:

LIVE LOAD = 250 PSF SURCHARGE ON SURFACE
 DESIGN SPEED: 30 M.P.H.
 DESIGN FORCES FOR CRASHWORTHY BARRIER (TL-1): Ft=13.5 K, Fv=4.5 K.

THE FOLLOWING SOIL PARAMETERS WERE USED FOR THE BARRIER AND DRILLED SHAFT DESIGN:

OVERBURDEN SOIL SURCHARGE = 125 PSF
 SOIL UNIT WEIGHT = 125 PCF
 SOIL INTERNAL ANGLE OF FRICTION = 30 DEGREES
 COHESION = 10,000 PSF
 PLEASE SEE GEOTECHNICAL REPORT BY KASKASKIA ENGINEERING GROUP, LLC
 DATED JANUARY 20, 2020 FOR DETAILS (KEG NO. 18-1009.09)

2.0 MATERIAL NOTES:

REINFORCEMENT BARS DESIGNATED "(E)" SHALL BE EPOXY COATED.

REINFORCEMENT BARS, INCLUDING EPOXY-COATED REINFORCEMENT
 BARS, SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31 (ASTM
 A706) GRADE 60, DEFORMED BARS, UNLESS NOTED OTHERWISE.

REINFORCEMENT BAR BENDING DETAILS SHALL BE IN ACCORDANCE WITH
 THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED
 CONCRETE STRUCTURES", ACI 315, LATEST EDITION.

FINAL FINISH COLOR TO BE COORDINATED BY THE OWNER.

f_y = 60,000 PSI (STAINLESS STEEL, EPOXY COATED REINFORCEMENT &
 UNCOATED REINFORCEMENT)
 f_c = 4,500 PSI (CLASS DS, DRILLED SHAFT; CLASS SI, WALL & FOOTING)

3.0 GENERAL NOTES:

WALL ELEVATIONS ARE SHOWN LOOKING AT FRONT FACE. DIMENSIONS
 ARE MEASURED AT FRONT FACE OF WALL.

ALL EXPOSED CONCRETE EDGES SHALL HAVE A 3/4" x 45° CHAMFER,
 EXCEPT WHERE SHOWN OTHERWISE. CHAMFER ON VERTICAL EDGES
 SHALL BE CONTINUED A MINIMUM OF ONE FOOT BELOW FINISHED
 GROUND LEVEL.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND
 CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED. SHORING INDICATIONS
 (LOCATION, DIRECTION, DURATION, ETC.) ARE ONLY SHOWN ON THE STRUCTURAL
 DRAWINGS WHEN REQUIRED TO IMPLEMENT THE DESIGN INTENT OF THE FINAL
 WORK PRODUCT. DETERMINATIONS WHETHER SHORING IS REQUIRED FOR TEMPORARY
 OR INTERMEDIATE CONDITIONS DURING CONSTRUCTION IS WHOLLY THE
 RESPONSIBILITY OF THE CONTRACTOR.

ANY REVISIONS SHALL BE APPROVED BY THE ENGINEER.

MODEL, SUBPROGRAMS
 FILE NAMES, STYLES



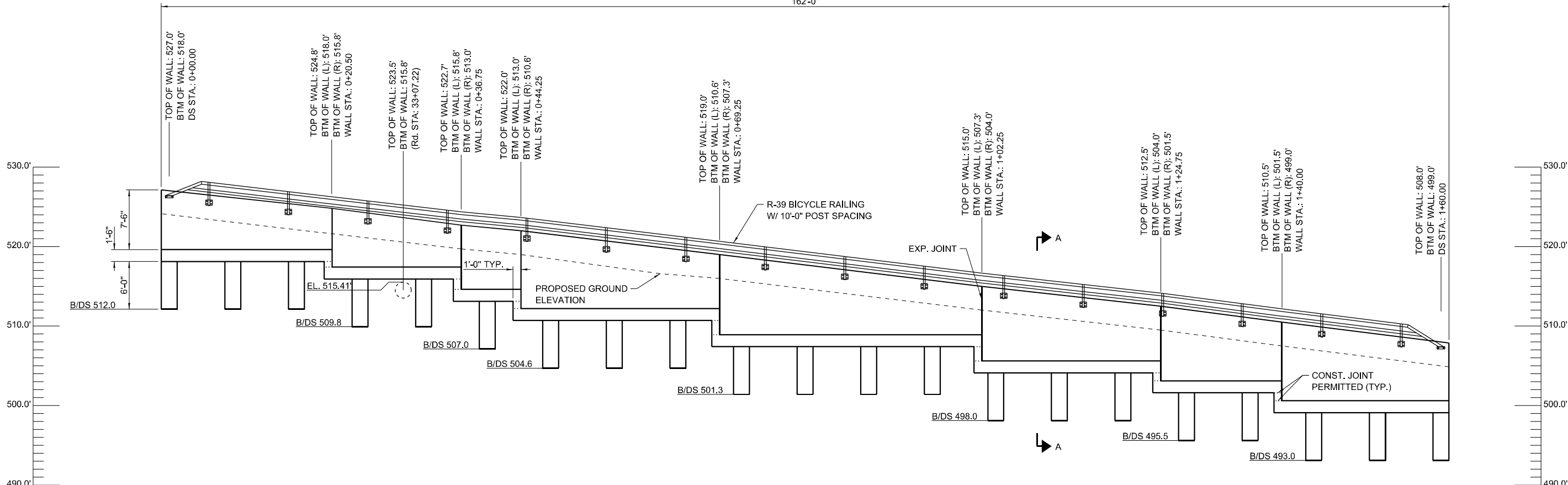
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

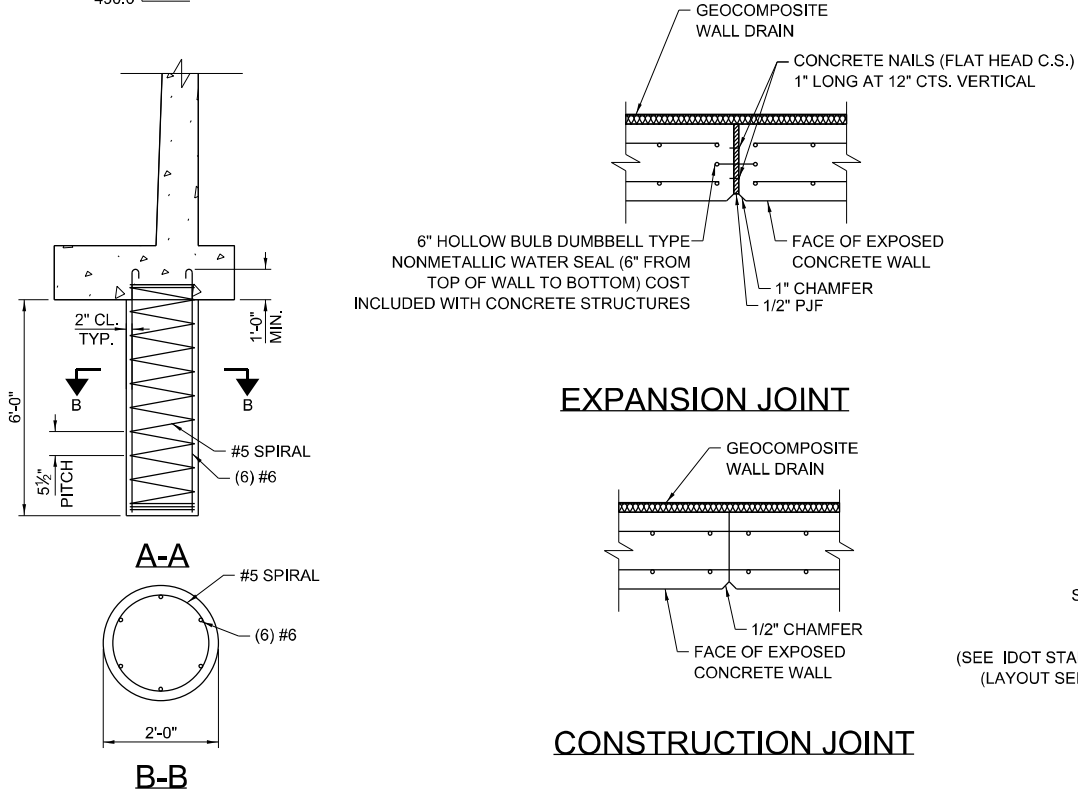
RETAINING WALL			
IDNR BUFFALO ROCK STATE PARK			
SCALE: SEE PLAN	SHEET 1	OF 9 SHEETS	STA. 0+00.00 TO STA. 1+60.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	32	18
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

162'-0"

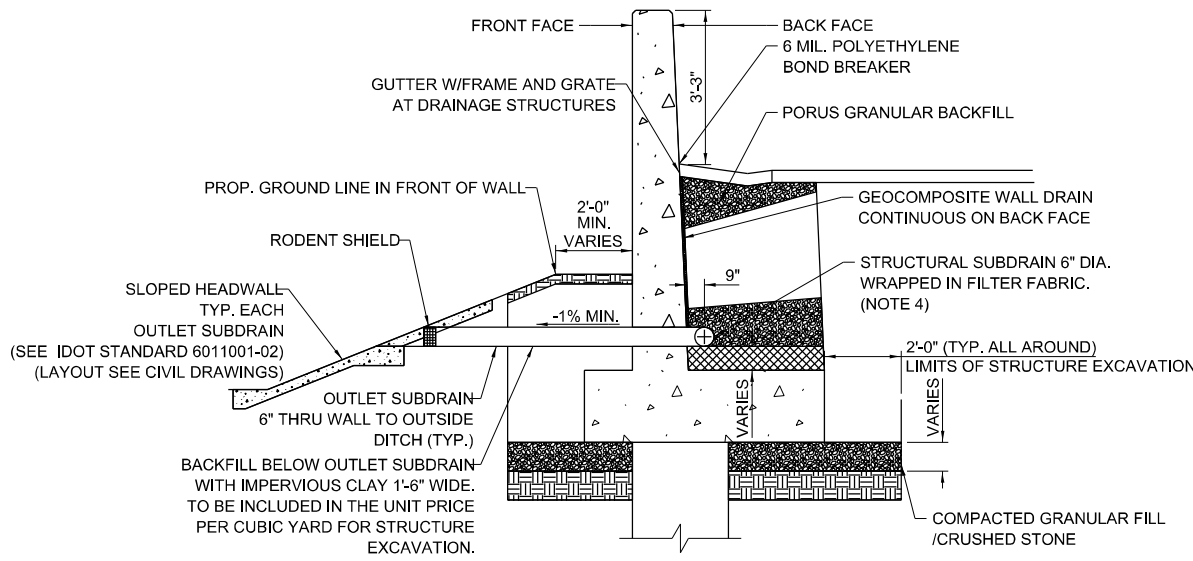


UNFOLDED WALL ELEVATION

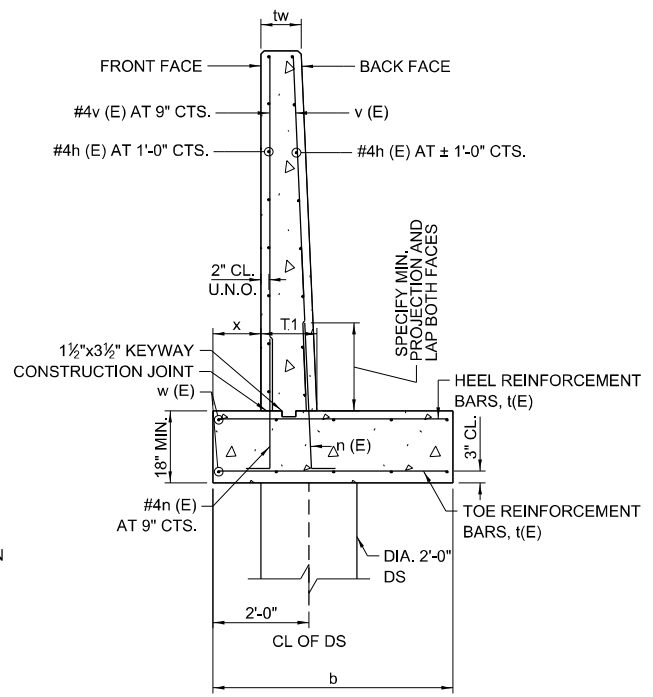


EXPANSION JOINT

CONSTRUCTION JOINT



TYPICAL BARRIER SECTION



DIMENSIONS				REINFORCEMENTS				
tw	b	X	T1	n(E)	V(E)	t(E) (HEEL)	t(E) (TOE)	W(E)
10"	5'-0"	1'-0"	1'-2"	#6@9"	#5@9"	#6@9"	#6@9"	#4@12

MIN. LAP LENGTH
 #5 BARS: 3'-0" U.N.O.
 #6 BARS: 3'-7"
 #5 SPIRALS: 3'-7"

- NOTES:
- SPIRAL REINFORCEMENT SHALL BE PROVIDED WITH 1.5 EXTRA TURNS AT EACH END. PROVIDE MINIMUM (4) #4 SPACERS OR EQUIVALENT.
 - SEE IDOT STANDARDS FOR R-39 BICYCLE RAILING PLANS.
 - PRIOR TO DRILLED SHAFT INSTALLATION, CLAY SOIL SHALL BE EXCAVATED OUT, BACKFILLED WITH CRUSHED STONE AND COMPACTED. WALL FOUNDATIONS MAY ONLY SIT ON EITHER COMPACTED BACKFILL OR STANDSTONE.
 - FILTER FABRIC INCLUDED IN PRICE OF PIPE UNDERDRAINS FOR STRUCTURES, 6"

MODEL: R06021NAM05
 FILENAME: ST0505



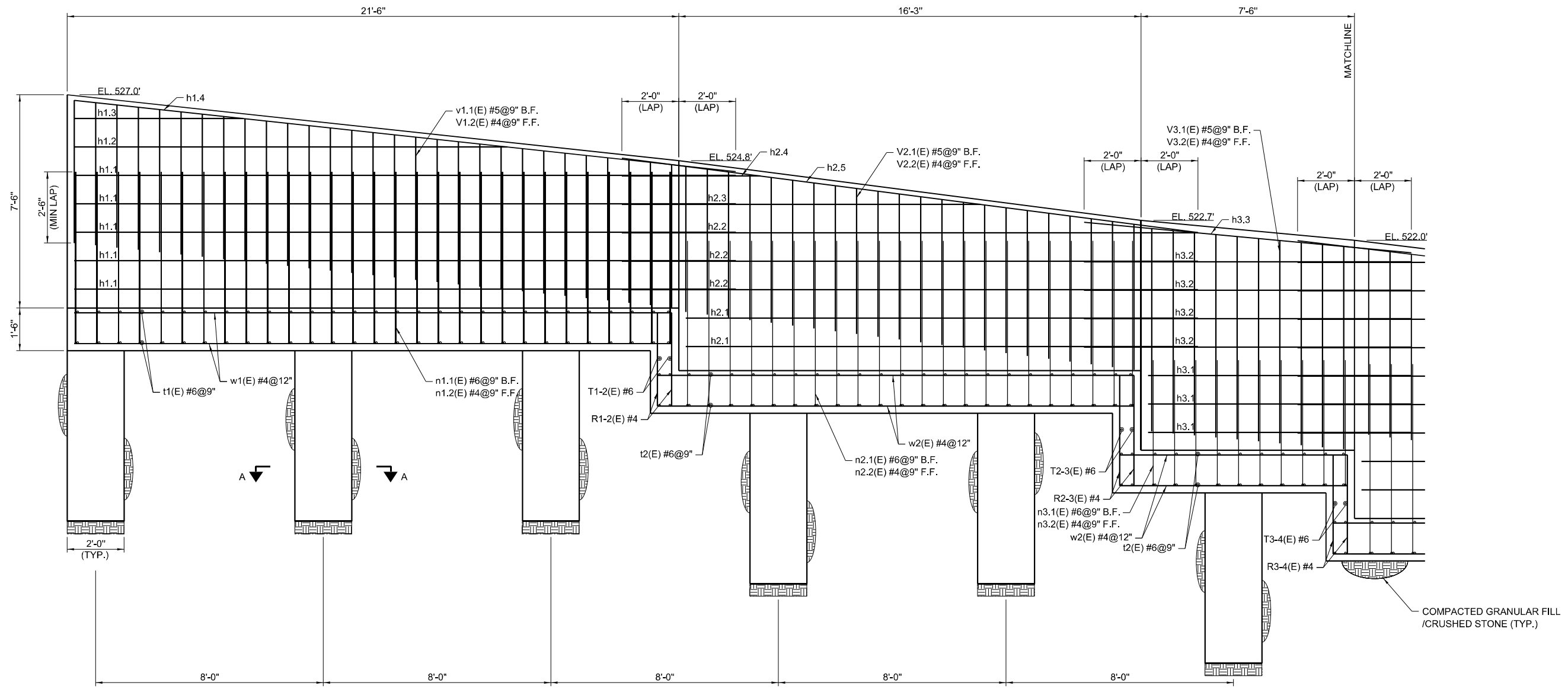
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DRAWN - PB	REVISIONS -	
PLOT SCALE = SEE PLAN	CHECKED - JL	REVISIONS -
PLOT DATE =	DATE - 06/24/2021	REVISIONS -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

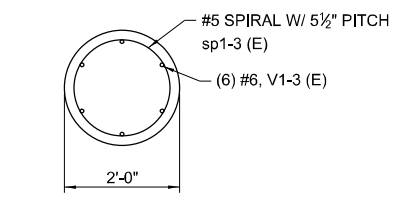
RETAINING WALL
 IDNR BUFFALO ROCK STATE PARK

SCALE: SEE PLAN SHEET 2 OF 9 SHEETS STA. 0+00.00 TO STA. 1+60.00

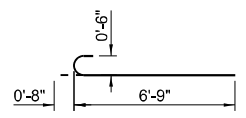
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	32	19
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



WALL 1-3 REINFORCING



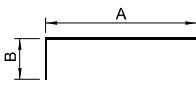
A-A



BAR V 1-3

BAR DIMENSION TABLE

BAR	A	B
n1.1(E)	6'-1"	1'-0"
n1.2(E)	6'-1"	1'-0"
n2.1(E)	5'-10"	1'-0"
n2.2(E)	5'-10"	1'-0"
n3.1(E)	4'-5"	1'-0"
n3.2(E)	4'-5"	1'-0"



REINFORCING BAR SCHEDULE

BAR	NO.	SIZE	LENGTH	SHAPE	BAR	NO.	SIZE	LENGTH	SHAPE
t1(E)	58	#6	4'-6"	—	h2.4(E)	2	#4	4'-11"	—
w1(E)	12	#4	21'-0"	—	h2.5(E)	2	#4	20'-5"	—
n1.1(E)	29	#6	7'-1"	—	t3(E)	24	#6	4'-6"	—
n1.2(E)	29	#4	7'-1"	—	w3(E)	12	#4	8'-0"	—
v1.1(E)	29	#5	5'-0"	—	n3.1(E)	10	#6	5'-5"	—
v1.2(E)	29	#4	5'-0"	—	n3.2(E)	10	#4	5'-5"	—
h1.1(E)	10	#4	23'-6"	—	v3.1(E)	10	#5	7'-2"	—
h1.2(E)	2	#4	15'-3"	—	v3.2(E)	10	#4	7'-2"	—
h1.3(E)	2	#4	5'-11"	—	h3.1(E)	6	#4	9'-3"	—
h1.4(E)	2	#4	23'-4"	—	h3.2(E)	8	#4	11'-6"	—
t2(E)	48	#6	4'-6"	—	h3.3(E)	2	#4	11'-7"	—
w2(E)	12	#4	16'-9"	—	R1-2(E)	12	#4	3'-3"	—
n2.1(E)	24	#6	6'-10"	—	T1-2(E)	2	#6	4'-6"	—
n2.2(E)	24	#4	6'-10"	—	R2-3(E)	12	#4	3'-10"	—
v2.1(E)	24	#5	5'-2"	—	T2-3(E)	2	#6	4'-6"	—
v2.2(E)	24	#4	5'-2"	—	R3-4(E)	12	#4	3'-6"	—
h2.1(E)	4	#4	18'-0"	—	T3-4(E)	2	#6	4'-6"	—
h2.2(E)	6	#4	20'-3"	—	*sp1-3(E)	6	#5	6'-9"	WWWW
h2.3(E)	2	#4	12'-8"	—	V1-3(E)	36	#6	7'-5"	C

*NOTE: LENGTH IS HEIGHT OF SPIRAL

BILL OF MATERIAL

PAY ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
50200100	STRUCTURE EXCAVATION	CU YD	89.1
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4,276
51604000	DRILLED SHAFT IN ROCK	CU YD	4.2
52200900	CONCRETE STRUCTURES (RETAINING WALL)	CU YD	25.1
X2300006	BICYCLE RAILING (PARAPET MOUNTED)	FOOT	46
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	88.0

MODEL: BRDFELNAMES
FILENAME: STEELS



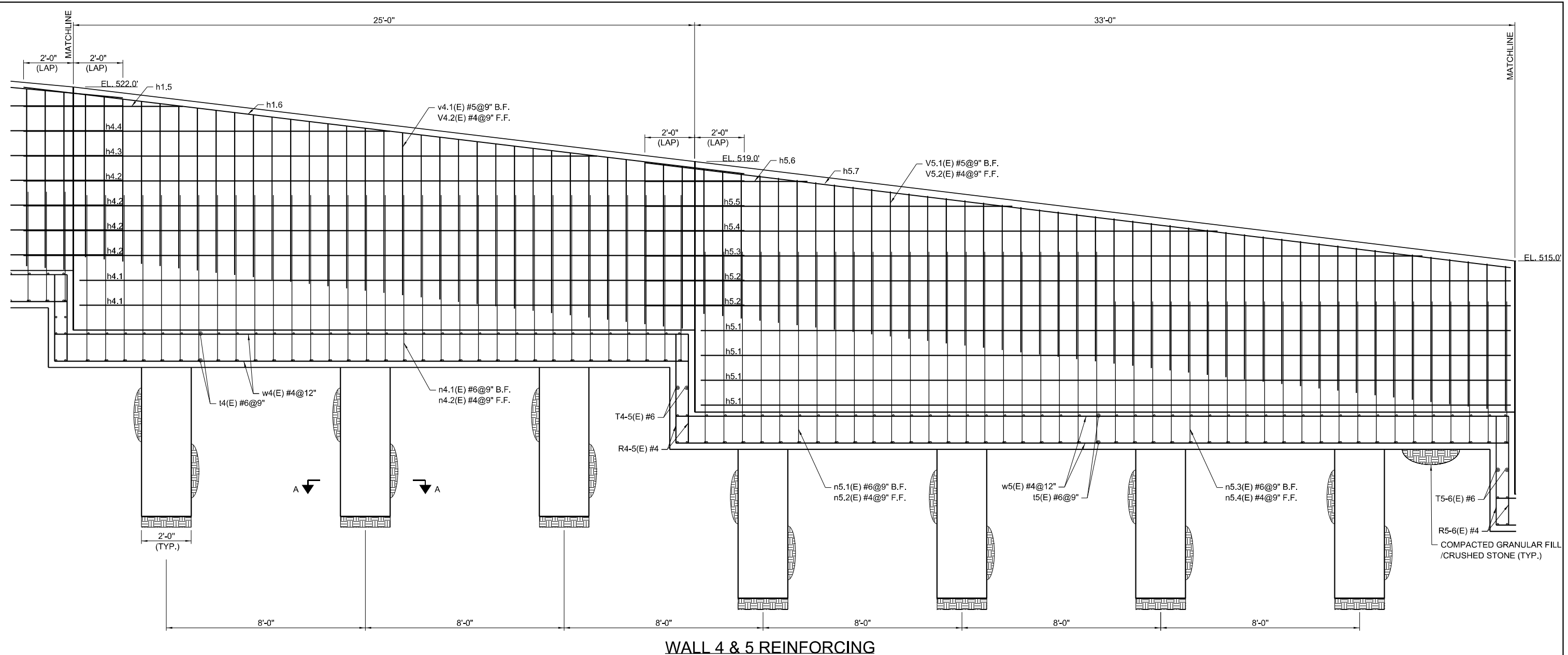
USER NAME = IDNR	DESIGNED - PB	REVISED -
DRAWN - PB	REVISIONS -	
PLOT SCALE = SEE PLAN	CHECKED - JL	REVISED -
PLOT DATE =	DATE - 06/24/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

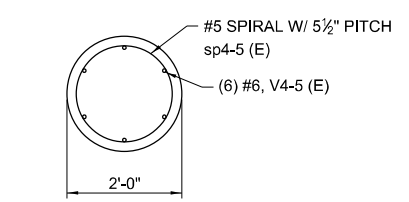
**RETAINING WALL
IDNR BUFFALO ROCK STATE PARK**

SCALE: SEE PLAN SHEET 3 OF 9 SHEETS STA. 0+00.00 TO STA. 1+60.00

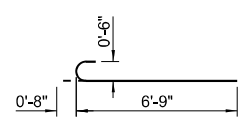
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	32	20
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



WALL 4 & 5 REINFORCING



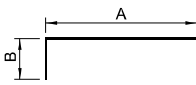
A-A



BAR V 4-5

BAR DIMENSION TABLE

BAR	A	B
n4.1(E)	6'-8"	1'-0"
n4.2(E)	6'-8"	1'-0"
n5.1(E)	7'-9"	1'-0"
n5.2(E)	7'-9"	1'-0"
n5.3(E)	5'-9"	1'-0"
n5.4(E)	5'-9"	1'-0"



REINFORCING BAR SCHEDULE

BAR	NO.	SIZE	LENGTH	SHAPE	BAR	NO.	SIZE	LENGTH	SHAPE
14(E)	70	#6	4'-6"	—	n5.4(E)	22	#4	6'-9"	—
w4(E)	12	#4	26'-6"	—	v5.1(E)	44	#5	5'-10"	—
n4.1(E)	33	#6	7'-8"	—	v5.2(E)	44	#4	5'-10"	—
n4.2(E)	33	#4	7'-8"	—	h5.1(E)	8	#4	32'-7"	—
v4.1(E)	33	#5	6'-7"	—	h5.2(E)	4	#4	34'-10"	—
v4.2(E)	33	#4	6'-7"	—	h5.3(E)	2	#4	31'-4"	—
h4.1(E)	4	#4	26'-9"	—	h5.4(E)	2	#4	23'-1"	—
h4.2(E)	8	#4	29'-0"	—	h5.5(E)	2	#4	14'-10"	—
h4.3(E)	2	#4	23'-1"	—	h5.6(E)	2	#4	6'-7"	—
h4.4(E)	2	#4	14'-9"	—	h5.7(E)	2	#4	35'-1"	—
h4.5(E)	2	#4	6'-5"	—	R4-5(E)	12	#4	4'-4"	—
h4.6(E)	2	#4	29'-3"	—	T4-5(E)	2	#6	4'-6"	—
15(E)	92	#6	4'-6"	—	R5-6(E)	12	#4	4'-4"	—
w5(E)	12	#4	33'-6"	—	T5-6(E)	2	#6	4'-6"	—
n5.1(E)	22	#6	8'-9"	—	*sp4-5(E)	7	#5	6'-9"	WWWW
n5.2(E)	22	#4	8'-9"	—	V4-5(E)	42	#6	7'-5"	—
n5.3(E)	22	#6	6'-9"	—	*NOTE: LENGTH IS HEIGHT OF SPIRAL				

BILL OF MATERIAL

PAY ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
50200100	STRUCTURE EXCAVATION	CU YD	101.7
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	5,550
51604000	DRILLED SHAFT IN ROCK	CU YD	4.9
52200900	CONCRETE STRUCTURES (RETAINING WALL)	CU YD	35.2
X2300006	BICYCLE RAILING (PARAPET MOUNTED)	FOOT	58
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	113.6

MODEL: R4021NAM05
FILE NAME: ST05E



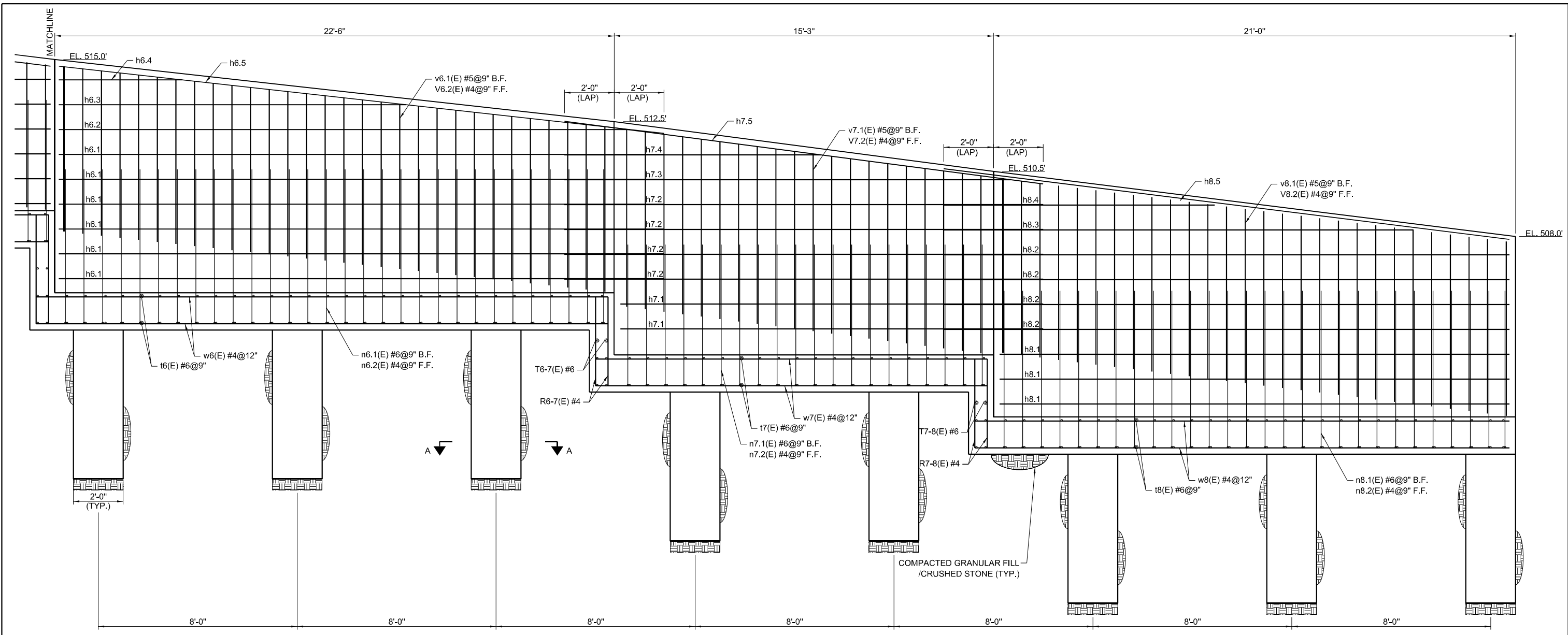
USER NAME = IDNR	DESIGNED - PB	REVISED - —
DRAWN - PB	REVISED - —	
PLOT SCALE = SEE PLAN	CHECKED - JL	REVISED - —
PLOT DATE =	DATE - 06/24/2021	REVISED - —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL
IDNR BUFFALO ROCK STATE PARK

SCALE: SEE PLAN SHEET 4 OF 9 SHEETS STA. 0+00.00 TO STA. 1+60.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	32	21
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



WALL 6-8 REINFORCING

REINFORCING BAR SCHEDULE

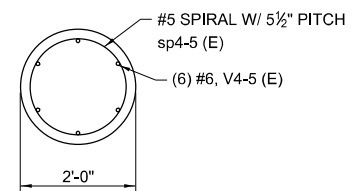
BILL OF MATERIAL

PAY ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
50200100	STRUCTURE EXCAVATION	CU YD	135.2
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	5,793
51604000	DRILLED SHAFT IN ROCK	CU YD	5.6
52200900	CONCRETE STRUCTURES (RETAINING WALL)	CU YD	35.8
X2300006	BICYCLE RAILING (PARAPET MOUNTED)	FOOT	59
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	115.3

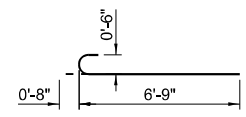
BAR	NO.	SIZE	LENGTH	SHAPE	BAR	NO.	SIZE	LENGTH	SHAPE
t6(E)	64	#6	4'-6"	—	h7.4(E)	2	#4	10'-4"	—
w6(E)	12	#4	23'-0"	—	h7.5(E)	2	#4	19'-5"	—
n6.1(E)	30	#6	7'-3"	—	t8(E)	60	#6	4'-6"	—
n6.2(E)	30	#4	7'-3"	—	w8(E)	12	#4	21'-6"	—
v6.1(E)	30	#5	6'-8"	—	n8.1(E)	28	#6	7'-4"	—
v6.2(E)	30	#4	6'-8"	—	n8.2(E)	28	#4	7'-4"	—
h6.1(E)	12	#4	24'-4"	—	v8.1(E)	28	#5	7'-0"	—
h6.2(E)	2	#4	23'-0"	—	v8.2(E)	28	#4	7'-0"	—
h6.3(E)	2	#4	14'-0"	—	h8.1(E)	6	#4	20'-6"	—
h6.4(E)	2	#4	5'-0"	—	h8.2(E)	8	#4	22'-3"	—
h6.5(E)	2	#4	24'-6"	—	h8.3(E)	2	#4	18'-11"	—
t7(E)	44	#6	4'-6"	—	h8.4(E)	2	#4	10'-11"	—
w7(E)	12	#4	15'-9"	—	h8.5(E)	2	#4	22'-11"	—
n7.1(E)	20	#6	6'-8"	—	R6-7(E)	12	#4	3'-7"	—
n7.2(E)	20	#4	6'-8"	—	T6-7(E)	2	#6	4'-6"	—
v7.1(E)	20	#5	7'-2"	—	R7-8(E)	12	#4	3'-7"	—
v7.2(E)	20	#4	7'-2"	—	T7-8(E)	2	#6	4'-6"	—
h7.1(E)	4	#4	17'-0"	—	*sp6-8(E)	8	#5	6'-9"	WWWW
h7.2(E)	8	#4	19'-3"	—	V6-8(E)	48	#6	7'-5"	C
h7.3(E)	2	#4	18'-0"	—					

BAR DIMENSION TABLE

BAR	A	B
n6.1(E)	6'-3"	1'-0"
n6.2(E)	6'-3"	1'-0"
n7.1(E)	5'-8"	1'-0"
n7.2(E)	5'-8"	1'-0"
n8.1(E)	6'-4"	1'-0"
n8.2(E)	6'-4"	1'-0"



A-A



BAR V 6-8

MODEL: R400ELNAMES
FILENAME: STEELS



USER NAME = IDNR	DESIGNED - PB	REVISED -
PLOT SCALE = SEE PLAN	DRAWN - PB	REVISED -
PLOT DATE =	CHECKED - JL	REVISED -
	DATE - 06/24/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RETAINING WALL
IDNR BUFFALO ROCK STATE PARK**

SCALE: SEE PLAN SHEET 5 OF 9 SHEETS STA. 0+00.00 TO STA. 1+60.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	32	22
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

SOIL BORING LOG

ROUTE _____ DESCRIPTION Buffalo Rock SP Slope Analysis LOGGED BY KEG
 SECTION _____ LOCATION Buffalo Rock SP
 COUNTY LaSalle DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO.	D	B	U	M	Surface Water Elev.	ft
Station	E	L	C	O	Stream Bed Elev.	ft
BORING NO.	P	O	S	I	Groundwater Elev.:	
Station	T	W	Qu	S	First Encounter	ft
Offset	H	S		T	Upon Completion	ft
Ground Surface Elev.	(ft)	(/6")	(tsf)	(%)	After Hrs.	ft
Asphalt: 24-inches						
	516.8					
SANDY SILT FILL: Black and Brown, with gravel	516.3	4				
		4	1.0	16		
SILTY CLAY: Brown, with gravel	515.3	5				
		32				
WEATHERED SANDSTONE: Yellow and White, with fine Sand and Sandstone Fragments	514.1	50/2.5'		10		
Boring terminated at 4.7 ft.						

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)

SOIL BORING LOG

ROUTE _____ DESCRIPTION Buffalo Rock SP Slope Analysis LOGGED BY KEG
 SECTION _____ LOCATION Buffalo Rock SP
 COUNTY LaSalle DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO.	D	B	U	M	Surface Water Elev.	ft
Station	E	L	C	O	Stream Bed Elev.	ft
BORING NO.	P	O	S	I	Groundwater Elev.:	
Station	T	W	Qu	S	First Encounter	ft
Offset	H	S		T	Upon Completion	ft
Ground Surface Elev.	(ft)	(/6")	(tsf)	(%)	After Hrs.	ft
ASPHALT: 16-inches						
	515.3					
SANDY SILT FILL: Black and Brown, with gravel		8				
		10		7		
	513.6	12				
SILTY CLAY: Brown and Black, with gravel	512.6	11				
SAND: Yellow, fine, dense		15		13		
		17				
	510.6					
WEATHERED SANDSTONE: Yellow and white, with Sandstone Fragments		50/1.5'				
Borehole continued with rock coring.						

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)

USER NAME = IDNR	DESIGNED - PB	REVISED - _____
DRAWN - PB	CHECKED - JL	REVISED - _____
PLOT SCALE = SEE PLAN	DATE - 06/24/2021	REVISED - _____
PLOT DATE =		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	32	23
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



ROCK CORE LOG

Date 9/2/20

ROUTE _____ DESCRIPTION Buffalo Rock SP Slope Analysis LOGGED BY KEG

SECTION _____ LOCATION Buffalo Rock SP

COUNTY LaSalle CORING METHOD Split Barrel

STRUCT. NO. _____ CORING BARREL TYPE & SIZE NQ
 Station _____
 BORING NO. B-2 Core Diameter 2 in
 Station _____ Top of Rock Elev. 510.48 ft
 Offset _____ Begin Core Elev. 510.48 ft
 Ground Surface Elev. 516.60 ft

DEPTH (ft)	CORER (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
510.10	1	7	0	2	
WEATHERED SANDSTONE: Yellow and white, with Sandstone Fragments (continued) Auger Refusal at 6 ft SANDSTONE: Yellow Orange, highly weathered					
505.60					
End of Boring					

Color pictures of the cores _____
 Cores will be stored for examination until _____
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)



SOIL BORING LOG

Date 9/3/20

ROUTE _____ DESCRIPTION Buffalo Rock SP Slope Analysis LOGGED BY KEG

SECTION _____ LOCATION Buffalo Rock SP

COUNTY LaSalle DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO. _____
 Station _____
 BORING NO. B-3
 Station _____
 Offset _____
 Ground Surface Elev. 513.80 ft

DEPTH (ft)	BLOW COUNT (S)	UCS (tsf)	MOISTURE (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter Upon Completion After (Hrs)
511.8							
ASPHALT: 24-inches							
510.8	78	3.5 P	16				
SANDY SILT FILL: Black and Brown, with gravel							
509.8	4						
SILTY CLAY: Brown, with sand and gravel							
508.8	1040	2.5 P	17				
WEATHERED SANDSTONE: Yellow Orange, with Sandstone Fragments Auger Refusal at 5 ft. Borehole continued with rock coring.							

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: BBS01/138/137
FILE NAME: ST138



USER NAME = IDNR	DESIGNED - PB	REVISED - _____
DRAWN - PB	CHECKED - JL	REVISED - _____
PLOT SCALE = SEE PLAN	DATE - 06/24/2021	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL IDNR BUFFALO ROCK STATE PARK			
SCALE: SEE PLAN	SHEET 7 OF 9 SHEETS	STA. 0+00.00 TO STA. 1+60.00	

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	32	24
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



ROCK CORE LOG

Date 9/3/20

ROUTE _____ DESCRIPTION Buffalo Rock SP Slope Analysis LOGGED BY KEG

SECTION _____ LOCATION Buffalo Rock SP

COUNTY LaSalle CORING METHOD Split Barrel

STRUCT. NO. _____ CORING BARREL TYPE & SIZE NQ
 Station _____ Core Diameter 2 in
 BORING NO. B-3 Top of Rock Elev. 508.80 ft
 Station _____ Begin Core Elev. 508.80 ft
 Offset _____
 Ground Surface Elev. 513.80 ft

DEPTH (ft)	CORRE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
508.80	1	97	0	2.6	29.1
SANDSTONE: Yellow Orange					
503.80					
End of Boring					
-10					
-15					
-20					
-25					

Color pictures of the cores _____
 Cores will be stored for examination until _____
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)



SOIL BORING LOG

Date 9/3/20

ROUTE _____ DESCRIPTION Buffalo Rock SP Slope Analysis LOGGED BY KEG

SECTION _____ LOCATION Buffalo Rock SP

COUNTY LaSalle DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO. _____
 Station _____
 BORING NO. B-4
 Station _____
 Offset _____
 Ground Surface Elev. 513.30 ft

DEPTH (ft)	BLOW S	UCS (tsf)	MOIST (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter Upon Completion After Hrs.
512.0							
ASPHALT: 16-inches							
510.3	10 16 7	3.0 P	5				
SANDY SILT FILL: Black and Brown, with gravel							
507.8	5 4 8	1.8 P	20				
SILTY CLAY: Brown, with sand, gravel and Sandstone Fragments							
507.0	50/4"		2				
WEATHERED SANDSTONE: Yellow Orange, with fine Sand and Sandstone Fragments Sampler Refusal at 6.33 ft. Borehole continued with rock coring.							
-10							
-15							
-20							

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: BBS01ENAMES
FILENAME: ST1E13



USER NAME = IDNR	DESIGNED - PB	REVISED - _____
DRAWN - PB	CHECKED - JL	REVISED - _____
PLOT SCALE = SEE PLAN	DATE - 06/24/2021	REVISED - _____
PLOT DATE =		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RETAINING WALL
 IDNR BUFFALO ROCK STATE PARK

SCALE: SEE PLAN SHEET 8 OF 9 SHEETS STA. 0+00.00 TO STA. 1+60.00

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	32	25
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



ROCK CORE LOG

Date 9/3/20

ROUTE _____ DESCRIPTION Buffalo Rock SP Slope Analysis LOGGED BY KEG

SECTION _____ LOCATION Buffalo Rock SP

COUNTY LaSalle CORING METHOD Split Barrel

STRUCT. NO. _____ CORING BARREL TYPE & SIZE NQ
 Station _____ Core Diameter 2 in
 BORING NO. B-4 Top of Rock Elev. 506.97 ft
 Station _____ Begin Core Elev. 506.97 ft
 Offset _____
 Ground Surface Elev. 513.30 ft

DEPTH (ft)	CORRE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
506.97	1	38	0	1.8	50.1
503.30	-10				
End of Boring					

Color pictures of the cores _____
 Cores will be stored for examination until _____
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)



SOIL BORING LOG

Date 9/2/20

ROUTE _____ DESCRIPTION Buffalo Rock SP Slope Analysis LOGGED BY KEG

SECTION _____ LOCATION Buffalo Rock SP

COUNTY LaSalle DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO. _____
 Station _____
 BORING NO. B-5
 Station _____
 Offset _____
 Ground Surface Elev. 511.70 ft

DEPTH (ft)	BLOW S Qu (/6")	UCS (tsf)	MOIST (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev.: First Encounter (ft)	Upon Completion (ft)	After (Hrs.) (ft)
509.7								
508.7	10		14					
507.2	8							
507.2	6		22					
507.2	7							
507.2	5							
507.2	6							
505.5	50/3"							

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: BBS01ENAMES
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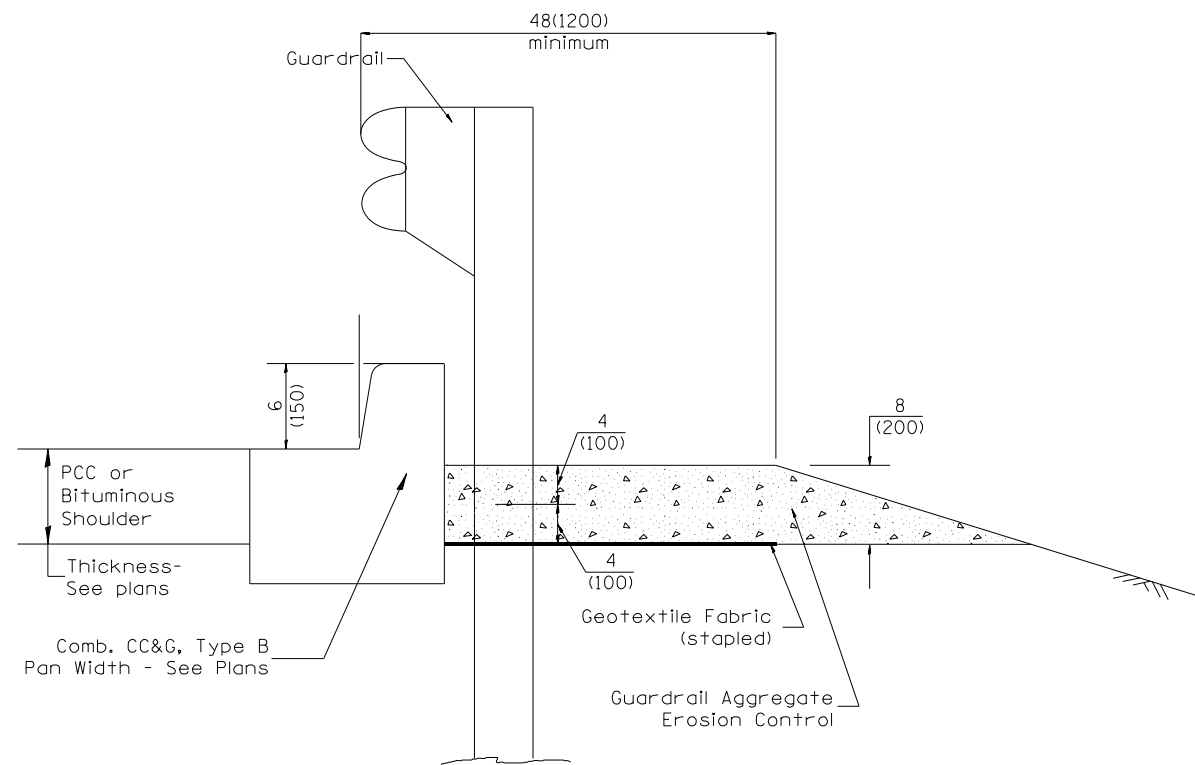


USER NAME = IDNR	DESIGNED - PB	REVISED - _____
DRAWN - PB	CHECKED - JL	REVISED - _____
PLOT SCALE = SEE PLAN	DATE - 06/03/2021	REVISED - _____

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RETAINING WALL IDNR BUFFALO ROCK STATE PARK			
SCALE: SEE PLAN	SHEET 9	OF 9 SHEETS	STA. 0+00.00 TO STA. 1+60.00

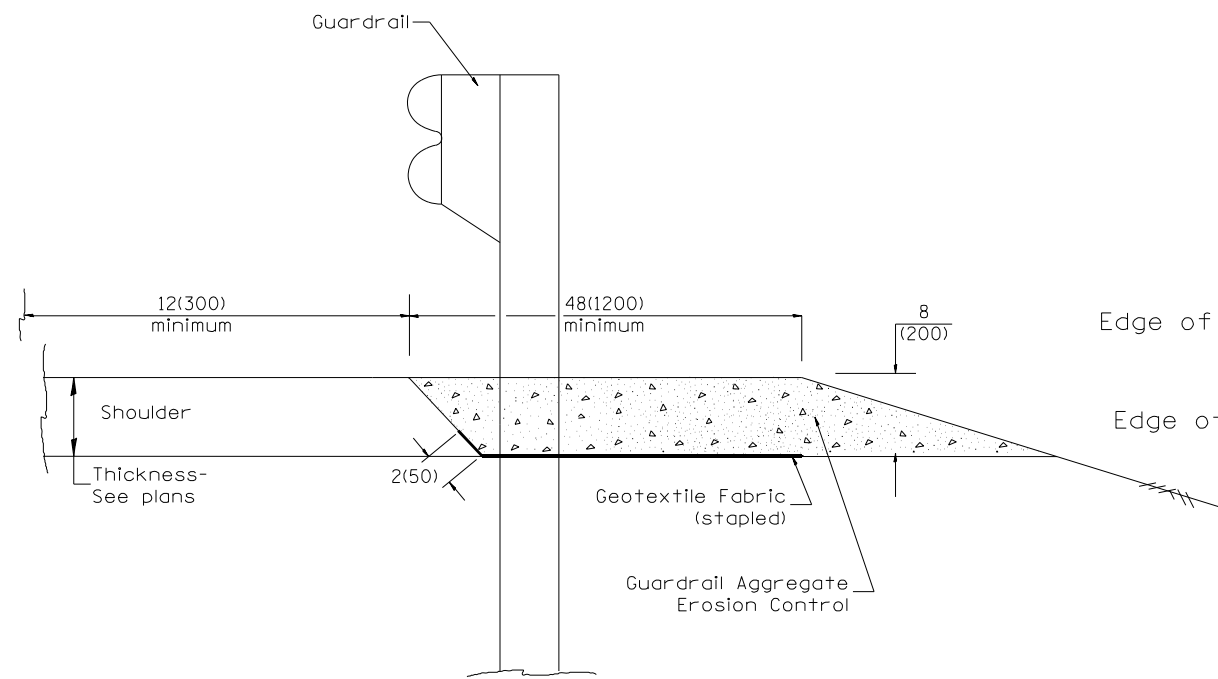
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	BR 2021	LASALLE	32	26
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



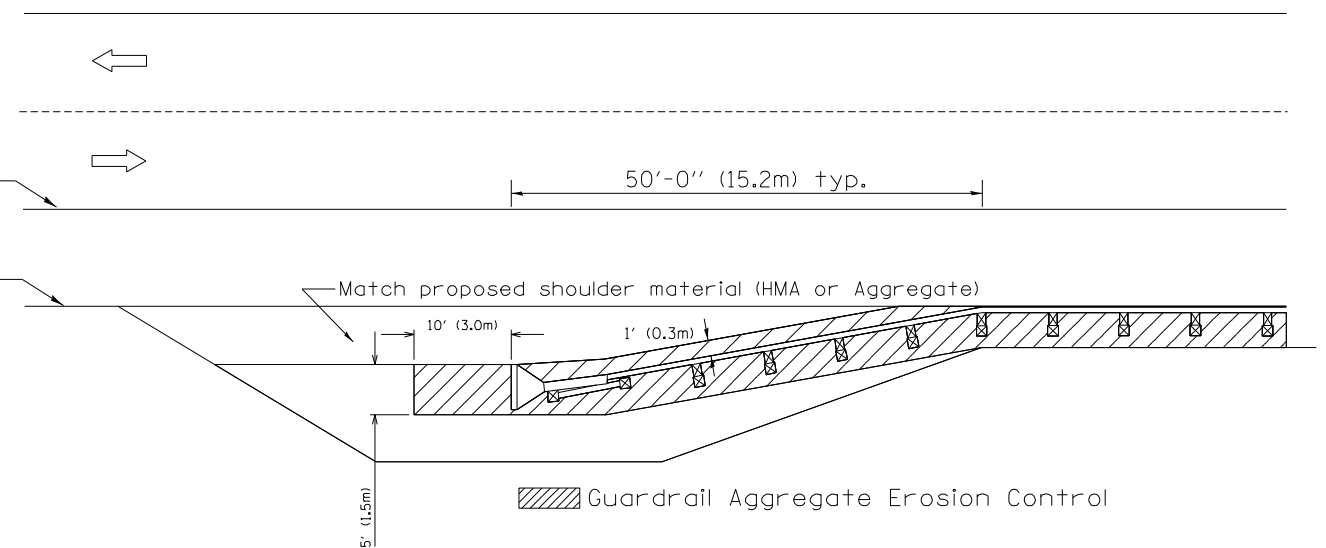
TYPICAL SECTION WITH COMBINATION CONCRETE CURB & GUTTER

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

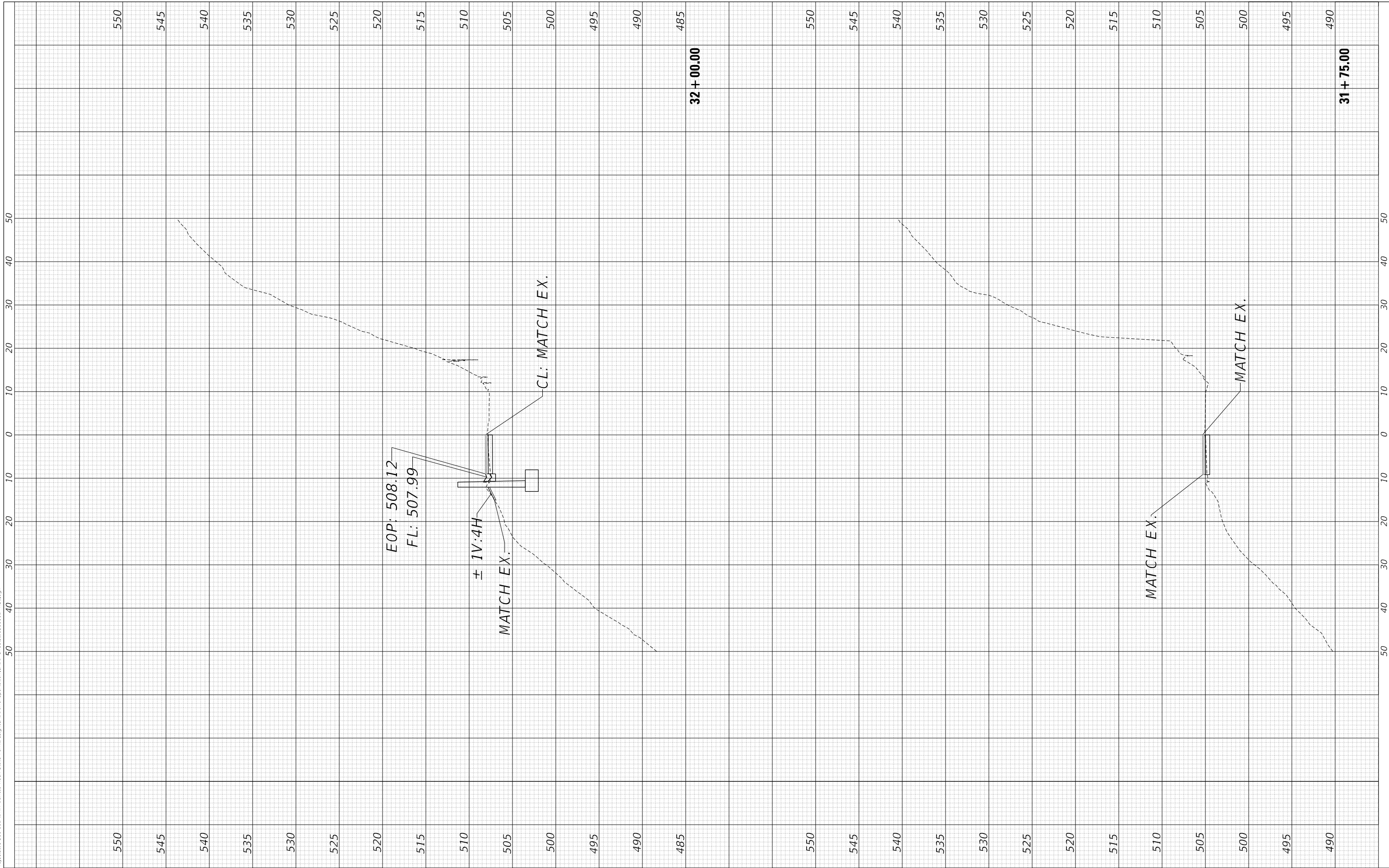


All dimensions are in inches (millimeters) unless otherwise noted.

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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PLOT DATE = 8/20/2021 2:17:00 PM	DATE = 8/20/2021	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 BUFFALO ROCK STATE PARK

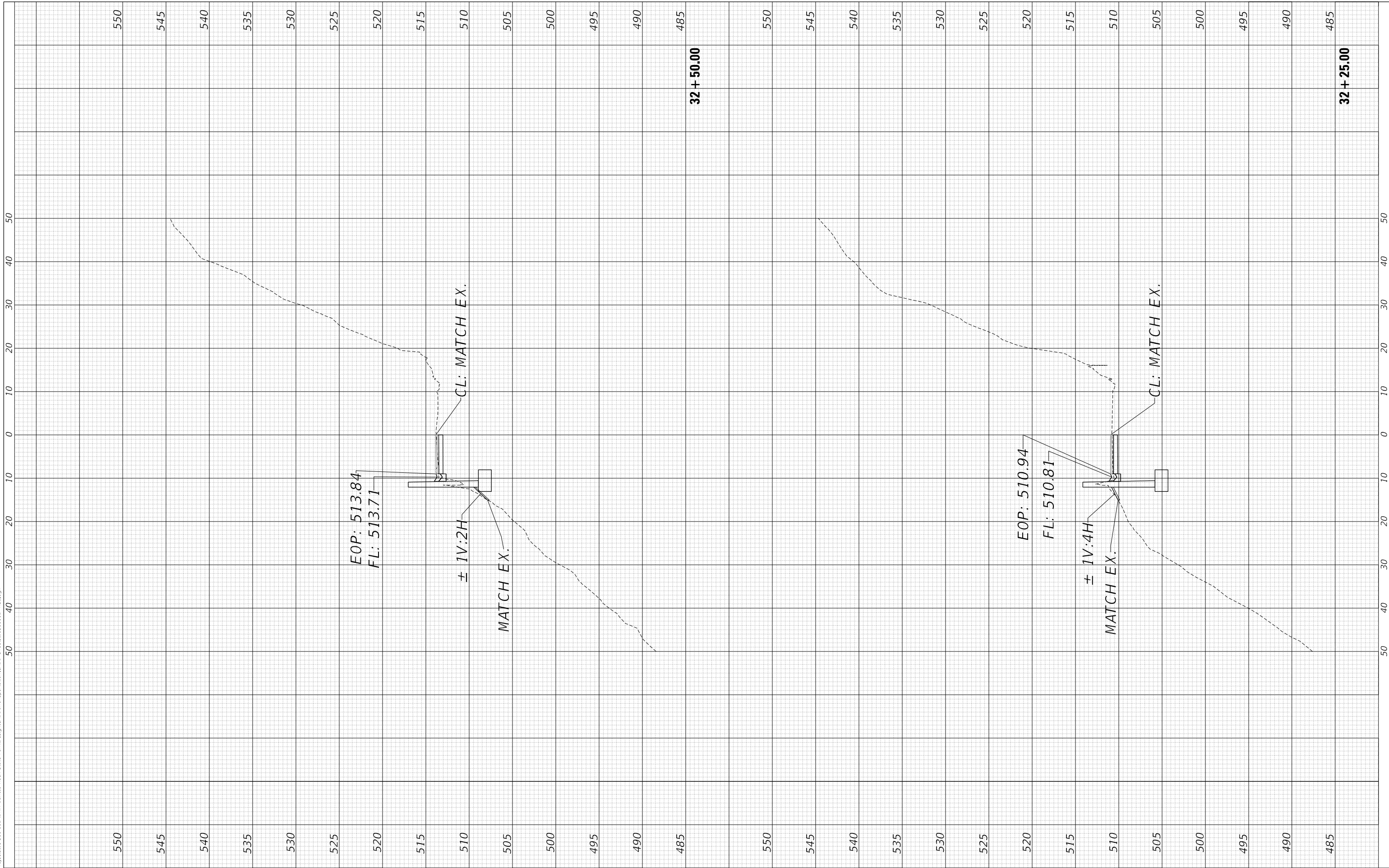
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MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	32	28
SRTS: BOBOLINK & EAGLE SIDEWALK			CONTRACT NO. 46924	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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DESIGNED -
 DRAWN -
 CHECKED -
 DATE - 8/20/2021

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 BUFFALO ROCK STATE PARK

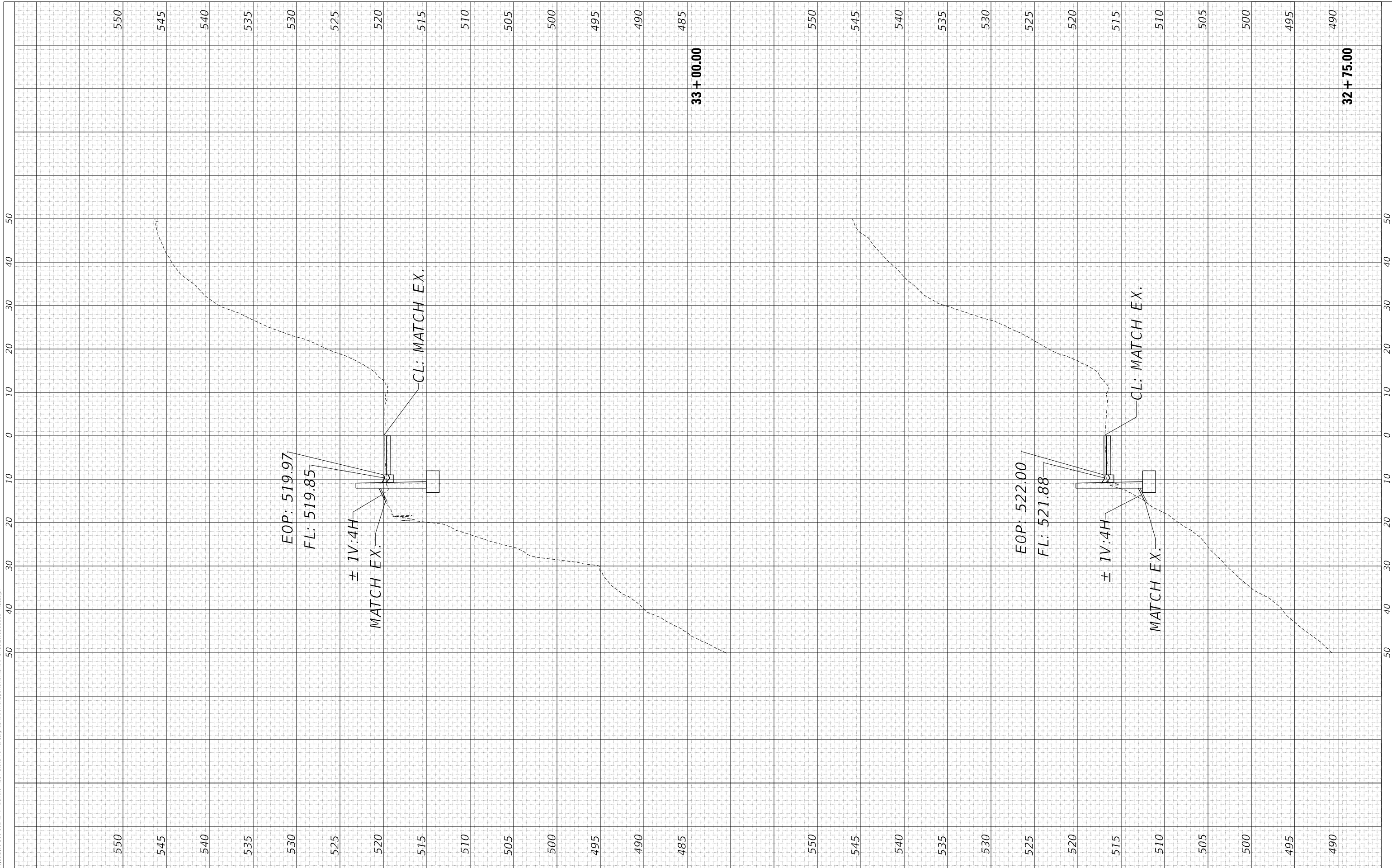
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MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	32	29
SRTS: BOBOLINK & EAGLE SIDEWALK			CONTRACT NO. 46924	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

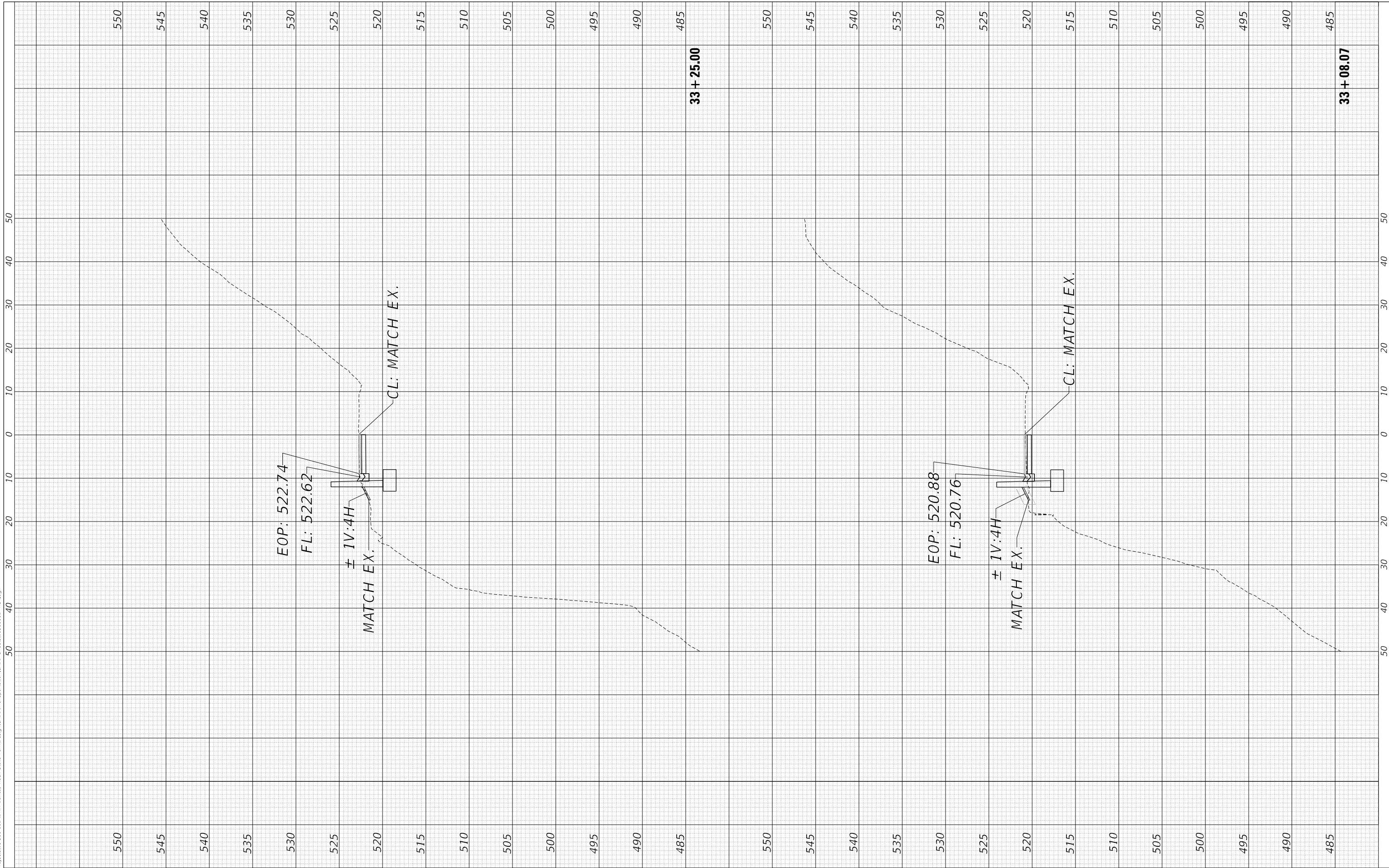
CROSS SECTIONS	
BUFFALO ROCK STATE PARK	
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STA.	TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	32	30
SRTS: BOBOLINK & EAGLE SIDEWALK			CONTRACT NO. 46924	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

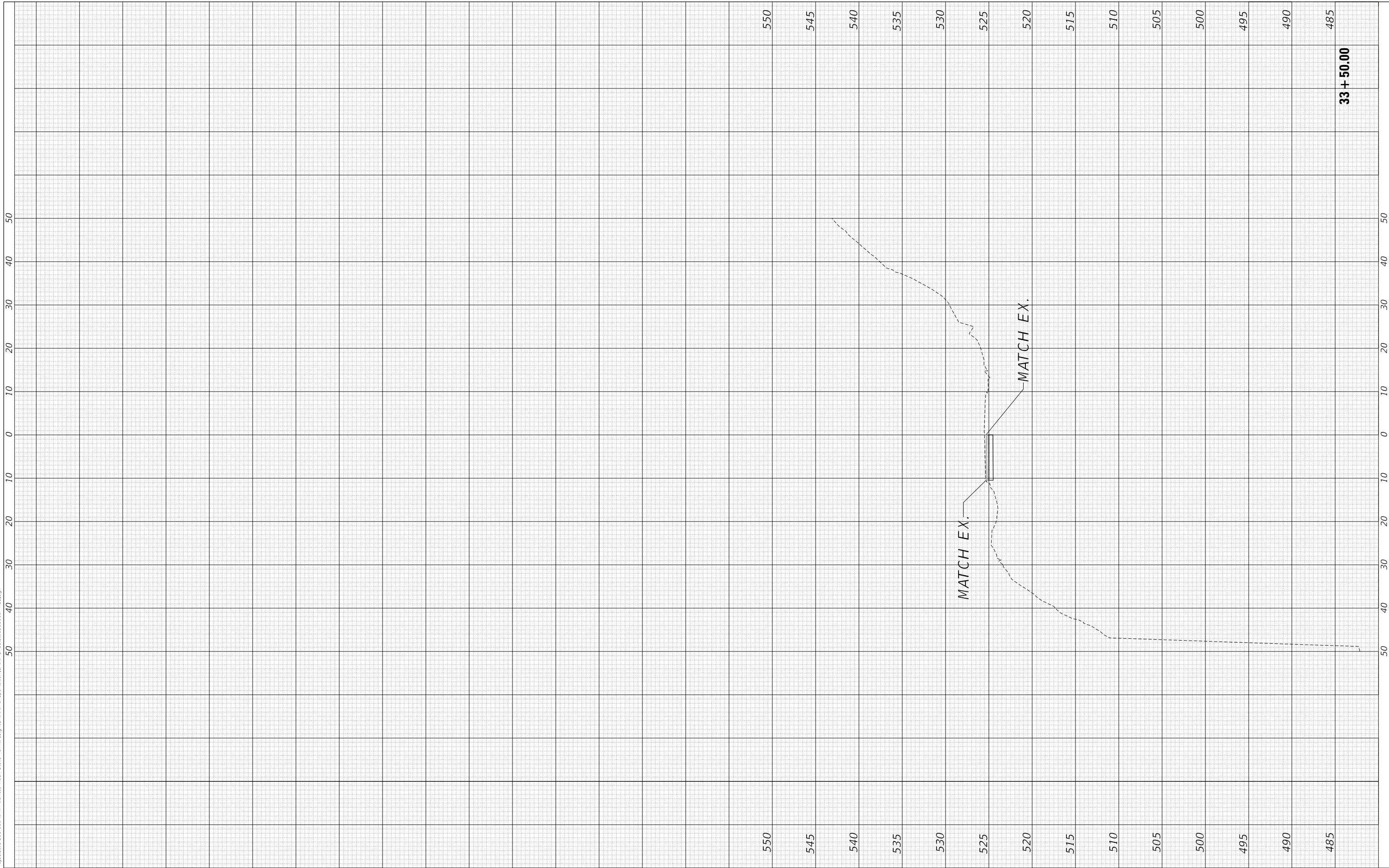
CROSS SECTIONS	
BUFFALO ROCK STATE PARK	
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STA.	TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	32	31
SRTS: BOBOLINK & EAGLE SIDEWALK			CONTRACT NO. 46924	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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DESIGNED -
 DRAWN -
 CHECKED -
 DATE - 8/20/2021

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 BUFFALO ROCK STATE PARK**

SCALE: H:1"=10'.V:1"=5 SHEET 5 OF 5 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	32	32
SRTS: BOBOLINK & EAGLE SIDEWALK			CONTRACT NO. 46924	
ILLINOIS FED. AID PROJECT				

33 + 50.00