

F.A. SHEETS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	1
		ILLINOIS		CONTRACT NO. 46902

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

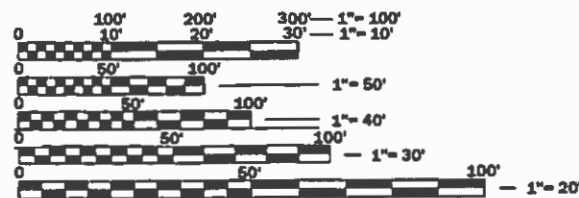
PROPOSED HIGHWAY PLANS

STRATTON 2018
WILLIAM G. STRATTON STATE PARK
PROPOSED BRIDGE AND ROAD IMPROVEMENTS
GRUNDY COUNTY

C-30-017-18
(IDNR PROJECT NO. 2-17-007)

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

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

PROJECT ENGINEER:
CONSULTANT ENGINEER:



vasconcelles
engineering corporation
2417 west white oaks drive
springfield, il 62704
phone (217)698-3114

CONTRACT NO. 46902

GROSS LENGTH = 1550.00 FT. = 0.294 MILE
NET LENGTH = 1550.00 FT. = 0.294 MILE



EXPIRES: 11/30/19
SIGNED: 02/19/19

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 22 2019
[Signature]
REGIONAL ENGINEER

March 22 2019
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

March 22 2019
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

LIST OF STANDARDS

000001-07	STANDARD SYMBOLS, ABBREVIATIONS & PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH & FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-09	PAVEMENT JOINTS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
515001-03	NAME PLATE FOR BRIDGES
602301-04	INLETS, TYPE A
606201-04	TYPE B GUTTER (INLET, OUTLET & ENTRANCE)
606401-02	PAVED DITCH
630001-12	STEEL PLATE BEAM GUARDRAIL
701901-07	TRAFFIC CONTROL DEVICES
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED TO CALCULATE THE PLAN QUANTITIES

BITUMINOUS MATERIALS (PRIME COAT)	0.25 LB/SQ FT
BITUMINOUS CONCRETE SURFACE/BINDER	0.056 TON/SQ PER 1-INCH
PARKING LOT SEAL COAT	0.27 GAL/SQ YD

LEGEND

	- EXISTING POWER POLE
	- EXISTING GUY WIRE
	- EXISTING SIGN
	- EXISTING WOOD POST
	- EXISTING FENCE POST
	- EXISTING MAILBOX
	- EXISTING DECIDUOUS TREE
	- EXISTING EVERGREEN TREE
	- EXISTING BUSH
	- EXISTING JUNCTION BOX
	- EXISTING ELECTRIC SPLICE BOX
	- EXISTING TELEPHONE SPLICE BOX
	- EXISTING WATER VALVE
	- EXISTING CATCH BASIN
	- EXISTING MANHOLE
	- EXISTING END SECTION
	- EXISTING PARKING BLOCK
	- EXISTING A.D.A. PARKING SYMBOL
	- EXISTING RIPRAP
	- EXISTING FENCE LINE
	- EXISTING DITCH LINE
	- EXISTING GUARD RAIL
	- EXISTING CONTOURS
	- EXISTING TREE LINE
	- EXISTING BUILDING LIMITS
	- EXISTING CULVERT
	- SOIL BORINGS
	- PROPOSED SILT FENCE

GENERAL NOTES

- SPECIFICATIONS SHALL BE THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED APRIL 1, 2016.
- ALL ELEVATIONS ARE REFERENCED TO ELEVATIONS ESTABLISHED BY OTHERS.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. IF THE ENGINEER DECIDES TO HAVE THE CONTRACTOR RESET THE MONUMENT, THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION.
- THE CONTRACTOR SHALL CONTACT J.U.L.I.E. TO HAVE PUBLIC AND PRIVATE UTILITIES LOCATED PRIOR TO ANY CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.26 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E. NUMBER IS (800) 892-0123. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED.
- ANY REFERENCE TO THE STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE DEPARTMENT AS INCLUDED IN THESE PLANS.
- ALL DETAILS IN THE PLANS SHALL GOVERN CONSTRUCTION OF THIS PROJECT, AND IN CASE OF CONFLICT WITH ANY STANDARD DRAWINGS INCLUDED, THE SAID DETAILS SHALL TAKE PRECEDENCE AND GOVERN.
- THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, IDEMNIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR THE LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- ALL CONSTRUCTION LAYOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTHMOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.
- THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS. SEEDING SHALL BE CLASS I. FERTILIZER SHALL BE APPLIED TO ALL DISTURBED AREAS AND INCORPORATED INTO THE SEEDBED PRIOR TO SEEDING OR PLACEMENT OF SOD AT THE RATE SPECIFIED IN SECTIONS 250 AND 252 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE COST OF "TOPSOIL, FURNISH AND PLACE, VARIABLE DEPTH". MULCH METHOD II SHALL BE APPLIED OVER ALL SEEDED AREAS. THIS SHALL BE INCLUDED IN THE COST OF "TOPSOIL, FURNISH AND PLACE, VARIABLE DEPTH". THIS WORK SHALL NOT BE PAID SEPERATELY BUT SHALL BE INCIDENTAL TO THE CONTRACT.
- THE BASELINES SHOWN THROUGHOUT THE PLANS ARE A "BEST FIT" ALIGNMENT OF THE CENTER OF THE EXISTING ROADWAYS FOR THE PURPOSE OF STATIONING AND DETERMINATION OF OFFSETS. IN MOST CASES, IT DOES NOT REPRESENT THE PHYSICAL CENTER OF THE EXISTING ROADWAY SURFACE.
- CONSULT WITH THE SITE SUPERINTENDENT TO IDENTIFY STAGING AREAS AND MATERIAL STORAGE AREAS. THE AREA IDENTIFIED AS "BAY M" ON THE PLANS MAY BE USED FOR MATERIAL STORAGE AREAS. PART OF THAT AREA MUST REMAIN OPEN IN ORDER TO ALLOW ACCESS TO THE PRIVATE CAMPGROUND TO THE EAST. THE AREAS IDENTIFIED ON THE PLANS AS BAYS "J", "K", AND "L" MAY BE USED AS OVERFLOW MATERIAL STORAGE.
- ALL TREES AND SHRUBBERY SHALL BE PROTECTED UNLESS THEY ARE SHOWN TO BE REMOVED ON THE DEMOLITION SHEETS.
- ALL SIDEWALK AND RAMPS SHALL BE BUILT ACCORDING TO THE ELEVATIONS NOTED ON THE PLANS. THE MAXIMUM TRANSVERSE SLOPE FOR SIDEWALK IS 2% AND THE MAXIMUM LONGITUDINAL SLOPE FOR SIDEWALK WITHOUTH RAILINGS IS 5%. SIDEWALK ELEVATIONS ON THE PLANS WERE DESIGNED WITH A 1.5% MAXIMUM TRANSVERSE SLOPE AND A 4.3% MAXIMUM LONGITUDINAL SLOPE. THE MAXIMUM LONGITUDINAL SLOPE FOR THE SIDEWALK RAMP IS 1" PER FOOT.

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JOB NO. 250-14-0 VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107

USER NAME = Cd for Bell	DESIGNED - R.H.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES WILLIAM STRATTON STATE PARK				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
DRAWN - S.D.K.	REVISIED -								STRATTON 2018	GRUNDY	42	2	
PLOT SCALE = 40.0000' / in.	CHECKED - R.H.D.	REVISED -											CONTRACT NO. 46902
PLOT DATE = 2/26/2019	DATE - 11/17/17	REVISED -						SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
												ILLINOIS	FED. AID PROJECT

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY 0005	BRIDGE 0010
				URBAN	032-7099
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	56	56	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	19		19
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	1380	1380	
21101600	TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH	SQ YD	95	95	
28000400	PERIMETER EROSION BARRIER	FOOT	51	51	
28000510	INLET FILTERS	EACH	2	2	
28100101	STONE RIPRAP, CLASS A1	SQ YD	415	415	
28100105	STONE RIPRAP, CLASS A3	SQ YD	25	25	
28200200	FILTER FABRIC	SQ YD	2990	2990	
28500400	ARTICULATED BLOCK REVETMENT MAT	SQ YD	1	1	
31100300	SUBBASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	1260	1260	
31102000	SUBBASE GRANULAR MATERIAL, TYPE C	CU YD	255	255	
42000110	PORTLAND CEMENT CONCRETE PAVEMENT 6 1/2"	SQ YD	1182	1182	
42001300	PROTECTIVE COAT	SQ YD	318		318

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY 0005	BRIDGE 0010
				URBAN	032-7099
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	262	262	
* 42400800	DETECTABLE WARNINGS	SQ FT	36	36	
44000600	SIDEWALK REMOVAL	SQ FT	98	98	
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	20	20	
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	20	20	
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	110	110	
45100200	CRACK FILLING	POUND	10000	10000	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50200100	STRUCTURE EXCAVATION	CU YD	102		102
50300225	CONCRETE STRUCTURES	CU YD	45		45
50300255	CONCRETE SUPERSTRUCTURE	CU YD	31		31
50300260	BRIDGE DECK GROOVING	SQ YD	217		217
50300280	CONCRETE ENCASEMENT	CU YD	6		6
50300285	FORM LINER TEXTURED SURFACE	SQ FT	854		854

*= SPECIALTY ITEM

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USER NAME = Connor Bell	DESIGNED - R.H.D.	REVISED -
DRAWN - S.D.K.	CHECKED - R.H.D.	REVISED -
PLOT SCALE = 40,0000' / in.	DATE - 11/17/17	REVISED -
PLOT DATE = 2/26/2019		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
WILLIAM STRATTON STATE PARK

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	3
			CONTRACT NO. 46902	
			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY 0005	BRIDGE 0010
				URBAN	032-7099
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	2918		2918
50600200	PAINTING STEEL RAILING	FOOT	154		154
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	13480		13480
50901750	PARAPET RAILING	FOOT	154		154
51201600	FURNISHING STEEL PILES HP12X53	FOOT	965		965
51202305	DRIVING PILES	FOOT	965		965
51500100	NAME PLATES	EACH	1		1
51602000	PERMANENT CASING	FOOT	48		48
54210182	PIPE ELBOW, 12"	EACH	2	2	
54262712	METAL FLARED END SECTIONS 12"	EACH	1	1	
550B0050	STORM SEWERS, CLASS B, TYPE 1 12"	FOOT	54	54	
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	28.8		28.8
60602800	CONCRETE GUTTER, TYPE B	FOOT	92	92	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	215.5	212.5	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY 0005	BRIDGE 0010
				URBAN	032-7099
67100100	MOBILIZATION	L SUM	1	1	
* 72000100	SIGN PANEL - TYPE 1	SQ FT	15	15	
* 78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	36	36	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	9376	9376	
* 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	1873	1873	
X0300019	REMOVE AND REINSTALL PARKING BLOCKS	EACH	22	22	
X0301797	GATE REMOVAL	EACH	3	3	
X0323013	TUBULAR STEEL GATE	EACH	3	3	
X0324062	ENTRANCE SIGN	L SUM	1	1	
X0325862	CONCRETE BRIDGE RAILING	FOOT	195		195
X0327308	PARKING LOT SEAL COAT	GALLON	5881	5881	
X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	3382	3382	
X2020410	EARTH EXCAVATION (SPECIAL)	CU YD	741	741	

*= SPECIALTY ITEM

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USER NAME = Connor Bell	DESIGNED - R.H.D.	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN - S.D.K.	REVISED -
PLOT DATE = 2/26/2019	CHECKED - R.H.D.	REVISED -
	DATE - 11/17/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
WILLIAM STRATTON STATE PARK

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	4
			CONTRACT NO. 46902	
		ILLINOIS FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY 0005	BRIDGE 0010
				URBAN	032-7099
X4020900	AGGREGATE SURFACE COURSE, TYPE B SPECIAL	SQ YD	39	39	
X5030290	STAINING CONCRETE STRUCTURES	SQ FT	1842		1842
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	239		239
X6024242	INLETS, SPECIAL, NO. 1	EACH	2	2	
X6061460	PAVED DITCH (SPECIAL)	FOOT	20	20	
X6340205	GUARD POSTS REMOVAL	EACH	38	38	
X7010216	TRAFFIC CONTROL AND PROTECTION, SPECIAL	L SUM	1	1	
X7240300	SIGN REMOVAL	EACH	2	2	
X7240600	REMOVE AND RE-ERECT EXISTING SIGN	EACH	5	5	
X7280105	TELESCOPING STEEL SIGN SUPPORT (SPECIAL)	FOOT	36	36	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0022800	FENCE REMOVAL	FOOT	24	24	
Ø Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500	
Z0023500	FILLING EXISTING CULVERTS	CU YD	3	3	

Ø 0042

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
WILLIAM STRATTON STATE PARK

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	5
			CONTRACT NO. 46902	
		ILLINOIS	FED. AID PROJECT	

MISCELLANEOUS ITEMS SCHEDULE

STA.	STA.	TREE REMOV OVER 15 UNIT 20100210	GEOTECH FABRIC GND STABILIZE (SQ YD) 21001000	TOPSOIL FURN & PLACE, VAR DEPTH (SQ YD) 21101600	PER. EROSION BARRIER (FOOT) 28000400	INLET FILTERS (EACH) 28000510	STONE RIPRAP CLASS A1 (SQ YD) 28100101	STONE RIPRAP CLASS A3 (SQ YD) 28100105	FILTER FABRIC (SQ YD) 28200200	SPBGR TY A 6FT POSTS (FOOT) 63000001	SIGN PANEL TYPE 1 (SQ FT) 72000100	REMOVE & REINSTALL PARKING BLCKS (EACH) X0300019	GATE REMOVAL (EACH) X0301797	TUB STEEL GATE (EACH) X0323013	ENTRANCE SIGN (L SUM) X0323013	EARTH EX SPECIAL (CU YD) X2020410	GUARD POSTS REMOV (EACH) X6340205	SIGN REMOVAL (EACH) X7240300	RMV & REERT EXIST SIGN (EACH) X7240600	TEL STEEL SIGN SUP (SPEC (FOOT) X7280105	FENCE REMOVAL (FOOT) Z0022800	FILL EXIST CULVERTS (CU YD) Z0023500
89+25.23, 134.68' LT															1			1				
89+87.75, 24.4' RT	to												1	1		597						
89+79.18, 165.0' LT																						
90+00.07, 92.0' RT	to						415															
90+00.07, 24.37' RT	to		1380						2990													
90+34.51, 95.32' RT		26																				
90+53.94, 90.2' RT	to																					
90+56.79, 92.65' RT																			1			
92+93.35, 27.47' LT											4									12		
93+21.15, 27.59' LT										4										12		
93+48.37, 33.40' RT	to											3										
93+48.97, 27.71' LT											2									12		
100+78.85, 14.1' RT																						
100+77.89, 14.1' RT	to									187.5												
102+47.89, 94.34' RT	to											19										
102+53.70, 12' RT																						
102+58.00, 66' LT	to																					2.6
102+60.45, 21.2' RT													1									
102+60.45, 23.0' RT														1								
102+90.60, 23.38' RT	to																					
102+90.89, 23.04' LT	to																					
102+91.69	to																					
103+05.00	to																					
103+20.50, 10.5' LT	to			28.8																		
103+21.77, 10.0' RT	to																					
103+27.91, 10.68' LT																						
103+29.19, 10.64' RT																						
103+30.95	to																					
104+25.04	to																					
104+25.5, 9.5' RT & LT																						
104+27.30, 16.32' LT																						
104+29.00, 14.0' LT	to																					
104+29.70	to																					
104+33.00, 13.0' RT																						
104+40.00	to																					
104+46.50, 18' LT		30																				
200+72.76, 7.6' RT											2.25											
200+80.00, 7.6' RT																						
200+87.88	to																					
201+14.50	to																					
201+24.72, 6.3' LT																						
201+32.11, 6.6' LT											2.25											
		56	1,380	94.9	51.0	2.0	415	25	2,990	188	14.5	22	3	3	1	741	38	2	5	36	24	2.6

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USER NAME = \$USERS	DESIGNED - R.H.D.	REVISED -
	DRAWN - S.D.K.	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - R.H.D.	REVISED -
PLOT DATE = \$DATES	DATE - 11/17/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES			
WILLIAM STRATTON STATE PARK			
SCALE:	SHEET	OF	SHEETS
	STA.		TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	6
			CONTRACT NO. 46902	
		ILLINOIS	FED. AID PROJECT	

JOB NO. 250-HI-0 VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-00207

PAVING SCHEDULE

STA.		STA.	SUB GRAN MAT TY C (CU YD) 31102000	SUB GRAN MAT A 4 (SQ YD) 31100300	PCC PVT 6 1/2 (SQ YD) 42000110	PORT CEMENT CONC SIDE (6") (SQ FT) 42400300	DETECTABLE WARNINGS SQ FT 42400800	SIDEWALK REM (SQ FT) 44000600	CRACK FILLING (POUND) 45100200	CONCRETE GUTTER, TY B (FOOT) 60602800	PARK LOT SEAL CT (GALLON) X0327308	AGG SURF CSE B SPEC (SQ YD) X4020900	PAVED DITCH SPECIAL (FOOT) X6061460
90+00.07	to	91+25.29	255	1069	1031								
90+30.10	to	90+55.68								25.9			
90+48.97	to	90+58.94								65.6			20
90+60.68	to	91+23.4											
102+91.69	to	103+30.95		100.4	91.7								
102+91.69	to	103+35.60											
103+18.02, 11.0' LT	to	103+30.95, 11.0' LT		8		78.2							
103+20.50, 10.5' LT	to	103+35.50, 10.5' LT						77.5					
103+21.17, 11.0' RT	to	103+28.46, 11.0' RT		5.5		49.6							
103+21.77, 10.0' RT	to	103+31.77, 10.4' RT						20					
104+29.70	to	104+54.08		77.2	59.6	133.7	8						
104+29.7	to	104+54.08											
200+57.56	to	200+85.35										22	
201+88.85	to	200+90.85					14						
201+13.13	to	201+15.13					14						
201+19.32	to	201+40.01										17	
PARKING LOT									10000		5881		
			255.0	1,260.1	1,182.3	261.5	36.0	97.5	10,000.0	91.5	5,881.0	39.0	20.0

DRAINAGE SCHEDULE

STA.		STA.	ART. BLOCK REVET. MAT (SQ YD) 28500400	PIPE ELBOW 12" (EACH) 54210182	METAL END SECTION 12" (EACH) 54262712	STORM SEW. CL B TY 1, 12" (FOOT) 550B0050	INLETS, SPEC. NO. 1 (EACH) X6024242
102+97.02, 31.8' LT	to	103+00.39, 33.1' LT	1				
103+01.06, 30.8' LT					1		
103+03.51, 29.0' LT	to	103+01.06, 30.8' LT				3	
103+03.51, 29.0' LT				1			
103+14.23, 21.4' LT	to	103+03.51, 29.0' LT				13	
103+14.23, 21.4' LT				1			
103+28.75, 10.7' LT	to	103+14.23, 21.4' LT				17	
103+28.75, 10.7' LT							1
103+29.56, 10.7' LT	to	103+28.75, 10.7' RT				21	
103+29.56, 10.7' LT							1
TOTAL =			1	2	1	54	2

PAVEMENT MARKING SCHEDULE

STA.		STA.	PAINT PVT MARK LET & SYM (SQ FT) 78001100	PAINT PVT MARK LINE 4" (FOOT) 78001110	PAINT PVT MARK LINE 6" (FOOT) 78001130	PAVMT MRKG REM GRIND (SQ FT) X0327979
VISITOR CENTER PARKING LOT						
		BAY "A"		600		189
		BAY "B"		591		210
		BAY "C"		745		248
		BAY "D"	9.3	675	794	473
		BAY "E"	15.5	318	1,079	345
		BAY "F"		670		220
		BAY "G"		646		231
		BAY "H"		793		248
		BAY "I"		845		297
		BAY "J"		769		264
		BAY "K"		364		132
		BAY "L"		234		99
		BAY "M"		451		136
		BAY "N"		120		40
		Boat Ramp	11.6	1,555		250
TOTAL =			36.4	9,376	1,873	3,382

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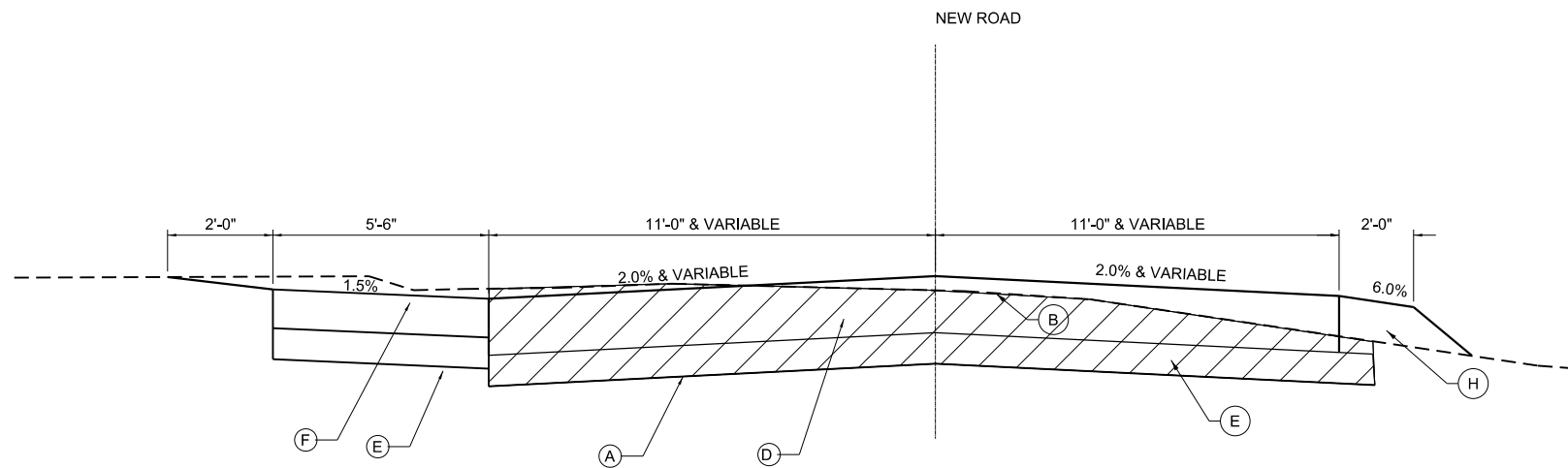
USER NAME = Connor Bell	DESIGNED - R.H.D.	REVISED -
	DRAWN - S.D.K.	REVISED -
PLOT SCALE = 40,000' / in.	CHECKED - R.H.D.	REVISED -
PLOT DATE = 2/14/2019	DATE - 11/17/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

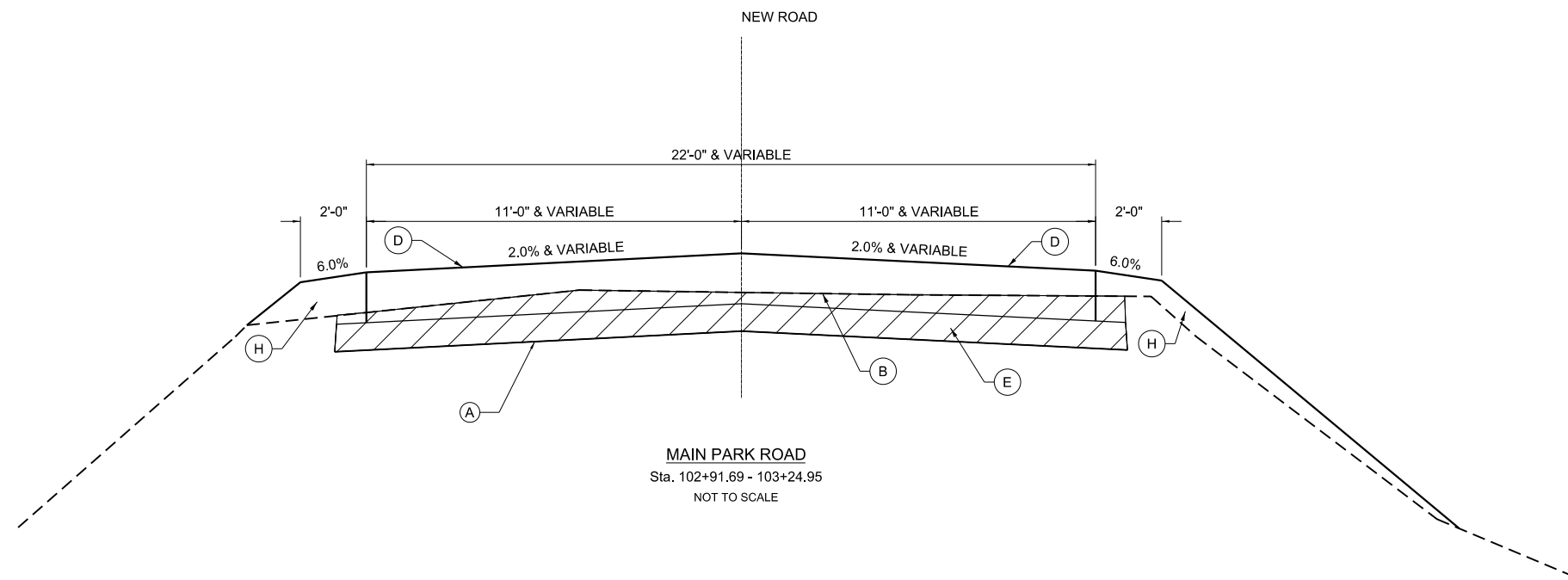
**SCHEDULE OF QUANTITIES
WILLIAM STRATTON STATE PARK**

SCALE: SHEET OF SHEETS STA. TO STA.

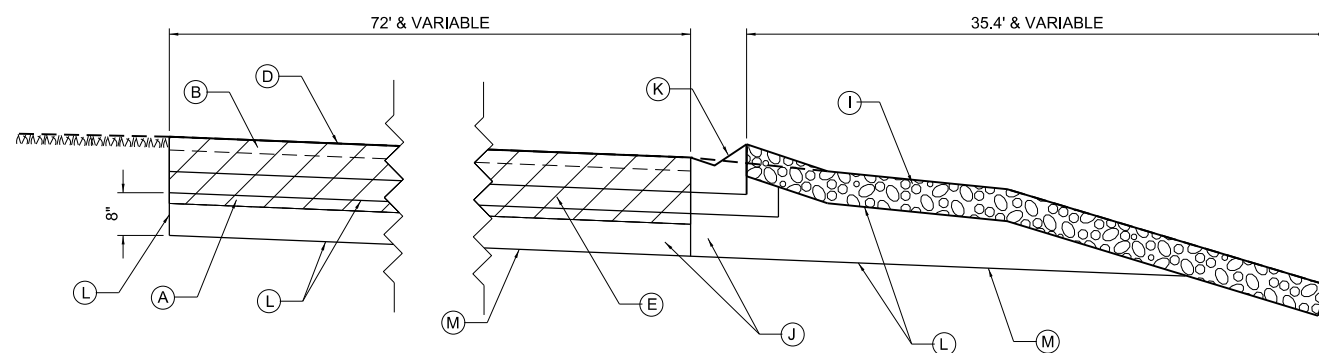
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	7
CONTRACT NO. 46902				
ILLINOIS FED. AID PROJECT				



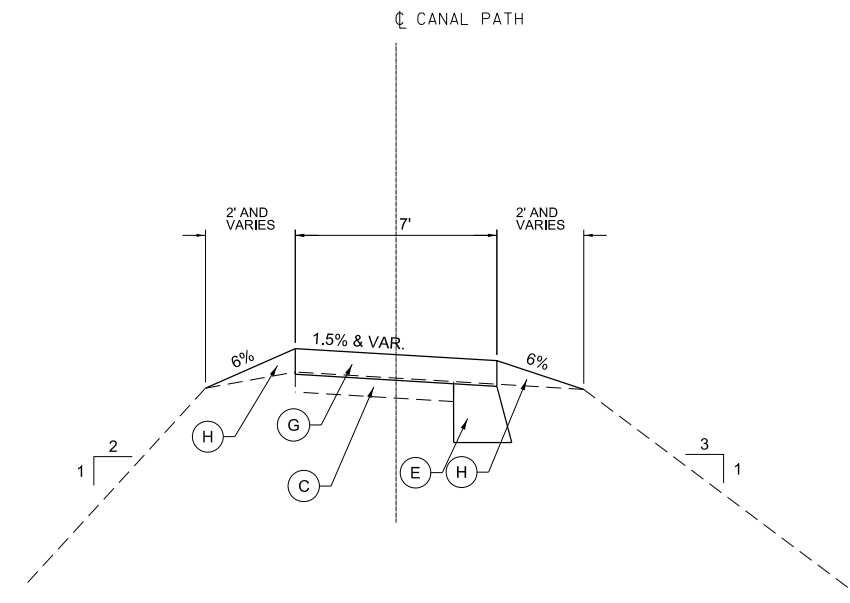
MAIN PARK ROAD
Sta. 103+24.95 - 103+30.95
Sta. 104+29.70 - 104+54.08
NOT TO SCALE



MAIN PARK ROAD
Sta. 102+91.69 - 103+24.95
NOT TO SCALE



WEST PARKING LOT
Sta. 90+00.07 - 91+23.74
NOT TO SCALE



CANAL TOW PATH
Sta. 200+57.56 - 201+40.00
SCALE: 1" = 3'

- (A) EXISTING AGGREGATE BASE COURSE, VARIABLE THICKNESS
- (B) EXISTING ASPHALT SURFACE
- (C) EXISTING AGGREGATE SURFACE
- (D) NEW PORTLAND CEMENT CONCRETE PAVEMENT 6-1/2"
- (E) NEW SUBBASE GRANULAR MATERIAL, TYPE A 4"
- (F) NEW PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH
- (G) NEW AGGREGATE SURFACE, VARIABLE DEPTH
- (H) TOP SOIL, VARIABLE DEPTH
- (I) NEW STONE RIPRAP, CLASS A2, 6"
- (J) NEW SUBBASE GRANULAR MATERIAL, TYPE C
- (K) NEW CONCRETE GUTTER, TYPE B
- (L) NEW FILTER FABRIC
- (M) NEW GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (Hatched Area) AREAS TO BE REMOVED

MODEL: D:\p\h\h\ FILE NAME: D:\46902-eh\ 006 typ.dgn

USER NAME = Connor Bell	DESIGNED - R.H.D.	REVISED -
	DRAWN - S.D.K.	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - R.H.D.	REVISED -
PLOT DATE = 2/14/2019	DATE - 11/17/17	REVISED -

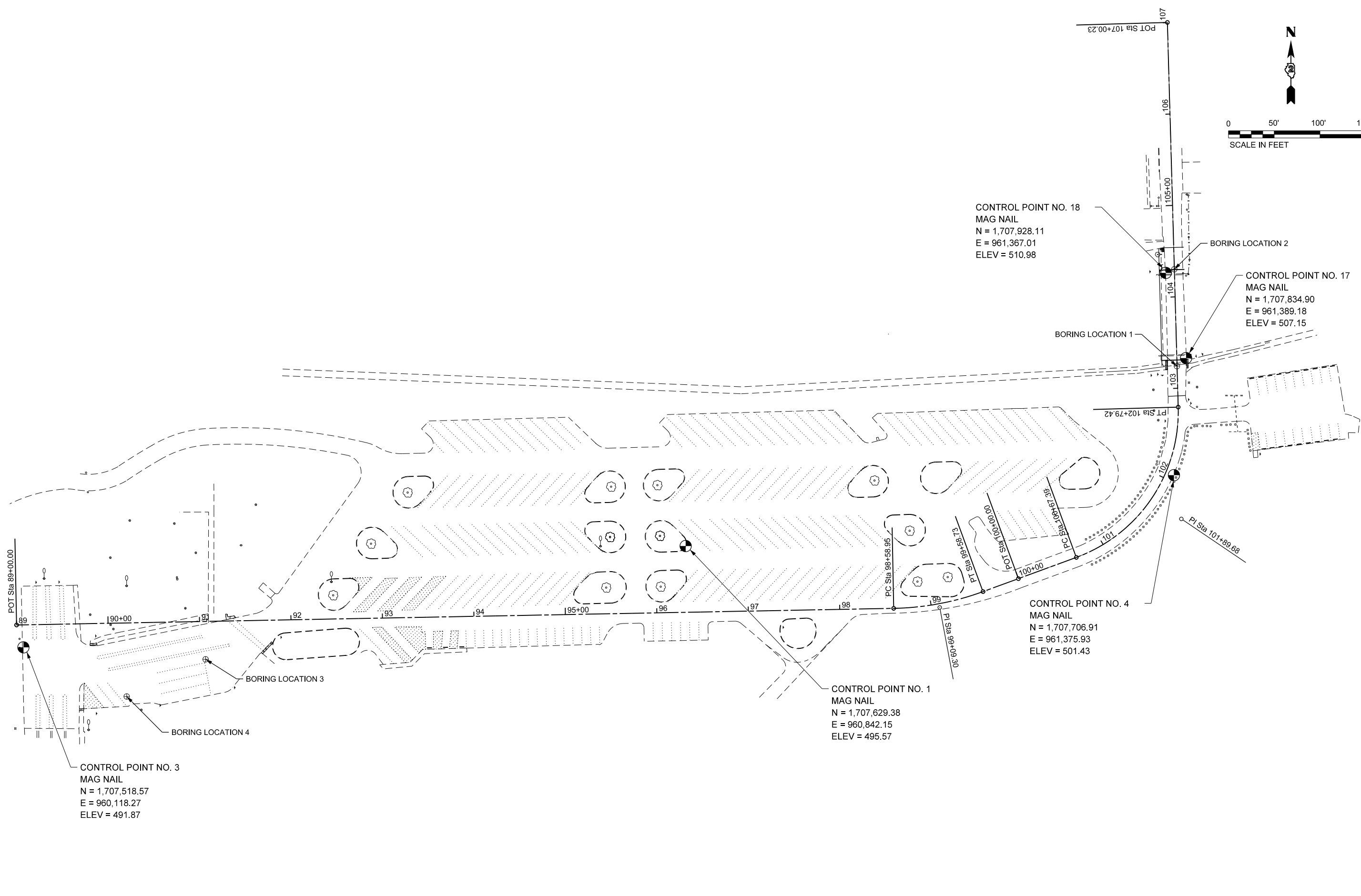
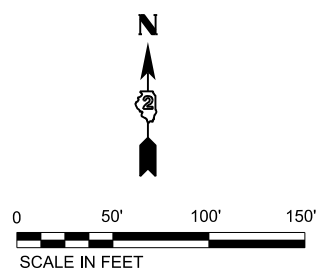
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
WILLIAM STRATTON STATE PARK

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	8
			CONTRACT NO. 46902	
		ILLINOIS	FED. AID PROJECT	

JOB NO. 250-141-0 VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



CONTROL POINT NO. 18
MAG NAIL
N = 1,707,928.11
E = 961,367.01
ELEV = 510.98

CONTROL POINT NO. 17
MAG NAIL
N = 1,707,834.90
E = 961,389.18
ELEV = 507.15

CONTROL POINT NO. 4
MAG NAIL
N = 1,707,706.91
E = 961,375.93
ELEV = 501.43

CONTROL POINT NO. 1
MAG NAIL
N = 1,707,629.38
E = 960,842.15
ELEV = 495.57

CONTROL POINT NO. 3
MAG NAIL
N = 1,707,518.57
E = 960,118.27
ELEV = 491.87

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USER NAME = Connor Bell	DESIGNED - R.H.D.	REVISED -
DRAWN - S.D.K.	REVISED -	
PLOT SCALE = 100.0000' / in.	CHECKED - R.H.D.	REVISED -
PLOT DATE = 2/14/2019	DATE - 11/17/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES & BENCHMARK SHEET
WILLIAM STRATTON STATE PARK**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 46902	

JOB NO. 250-141-0 VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107

78001110 PAINT PAVEMENT MARKING-4"
 PARKING LOT (WHITE)
 BAY "A" = 600 FOOT
 BAY "B" = 591
 BAY "C" = 745
 BAY "D" = 675
 BAY "E" = 318
 BAY "F" = 670
 BAY "G" = 646
 BAY "H" = 793
 BAY "I" = 845
 BAY "J" = 769
 BAY "K" = 364
 BAY "L" = 234
 BAY "M" = 451
 BAY "N" = 120
 BOAT RAMP AREA = 1555

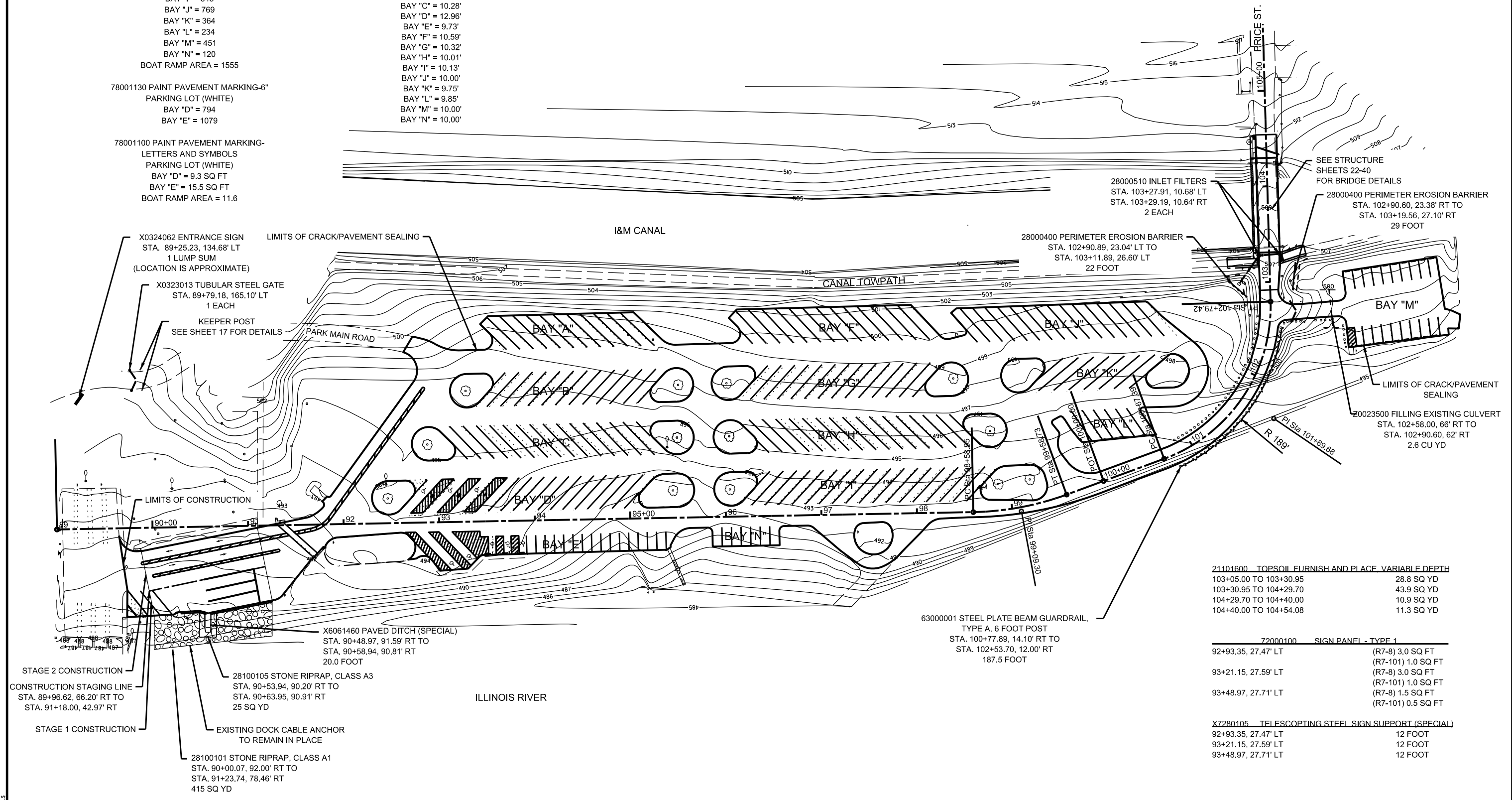
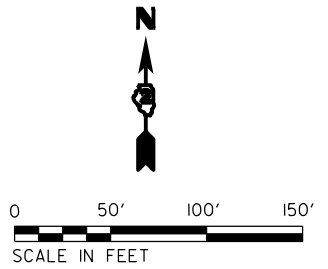
78001130 PAINT PAVEMENT MARKING-6"
 PARKING LOT (WHITE)
 BAY "D" = 794
 BAY "E" = 1079

78001100 PAINT PAVEMENT MARKING-
 LETTERS AND SYMBOLS
 PARKING LOT (WHITE)
 BAY "D" = 9.3 SQ FT
 BAY "E" = 15.5 SQ FT
 BOAT RAMP AREA = 11.6

45100200 CRACK FILLING
 PARKING LOTS
 10,000 POUND

 X0327308 PARKING LOT SEAL COAT
 PARKING LOTS
 5,881 GALLONS

PARKING SPACE WIDTH
 BAY "A" = 10.00'
 BAY "B" = 10.23'
 BAY "C" = 10.28'
 BAY "D" = 12.96'
 BAY "E" = 9.73'
 BAY "F" = 10.59'
 BAY "G" = 10.32'
 BAY "H" = 10.01'
 BAY "I" = 10.13'
 BAY "J" = 10.00'
 BAY "K" = 9.75'
 BAY "L" = 9.85'
 BAY "M" = 10.00'
 BAY "N" = 10.00'



28000510 INLET FILTERS
 STA. 103+27.91, 10.68' LT
 STA. 103+29.19, 10.64' RT
 2 EACH

28000400 PERIMETER EROSION BARRIER
 STA. 102+90.89, 23.04' LT TO
 STA. 103+11.89, 26.60' LT
 22 FOOT

SEE STRUCTURE SHEETS 22-40 FOR BRIDGE DETAILS
 28000400 PERIMETER EROSION BARRIER
 STA. 102+90.60, 23.38' RT TO
 STA. 103+19.56, 27.10' RT
 29 FOOT

20023500 FILLING EXISTING CULVERT
 STA. 102+58.00, 66' RT TO
 STA. 102+90.60, 62' RT
 2.6 CU YD

21101600 TOPSOIL FURNISH AND PLACE VARIABLE DEPTH

103+05.00 TO 103+30.95	28.8 SQ YD
103+30.95 TO 104+29.70	43.9 SQ YD
104+29.70 TO 104+40.00	10.9 SQ YD
104+40.00 TO 104+54.08	11.3 SQ YD

72000100 SIGN PANEL - TYPE 1

92+93.35, 27.47' LT	(R7-8) 3.0 SQ FT
	(R7-101) 1.0 SQ FT
93+21.15, 27.59' LT	(R7-8) 3.0 SQ FT
	(R7-101) 1.0 SQ FT
93+48.97, 27.71' LT	(R7-8) 1.5 SQ FT
	(R7-101) 0.5 SQ FT

X7280105 TELESCOPING STEEL SIGN SUPPORT (SPECIAL)

92+93.35, 27.47' LT	12 FOOT
93+21.15, 27.59' LT	12 FOOT
93+48.97, 27.71' LT	12 FOOT

63000001 STEEL PLATE BEAM GUARDRAIL,
 TYPE A, 6 FOOT POST
 STA. 100+77.89, 14.10' RT TO
 STA. 102+53.70, 12.00' RT
 187.5 FOOT

X6061460 PAVED DITCH (SPECIAL)
 STA. 90+48.97, 91.59' RT TO
 STA. 90+58.94, 90.81' RT
 20.0 FOOT

28100105 STONE RIPRAP, CLASS A3
 STA. 90+53.94, 90.20' RT TO
 STA. 90+63.95, 90.91' RT
 25 SQ YD

28100101 STONE RIPRAP, CLASS A1
 STA. 90+00.07, 92.00' RT TO
 STA. 91+23.74, 78.46' RT
 415 SQ YD

STAGE 2 CONSTRUCTION
 CONSTRUCTION STAGING LINE
 STA. 89+96.62, 66.20' RT TO
 STA. 91+18.00, 42.97' RT

STAGE 1 CONSTRUCTION

EXISTING DOCK CABLE ANCHOR
 TO REMAIN IN PLACE

MODEL: RUPREXAMES
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USER NAME = \$USERS	DESIGNED - R.H.D.	REVISED -
	DRAWN - S.D.K.	REVISED -
PLOT SCALE = \$SCALES	CHECKED - R.H.D.	REVISED -
PLOT DATE = \$DATES	DATE - 11/17/17	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED PARKING LOT PLAN
 WILLIAM STRATTON STATE PARK

SCALE: SHEET OF SHEETS STA. TO STA.

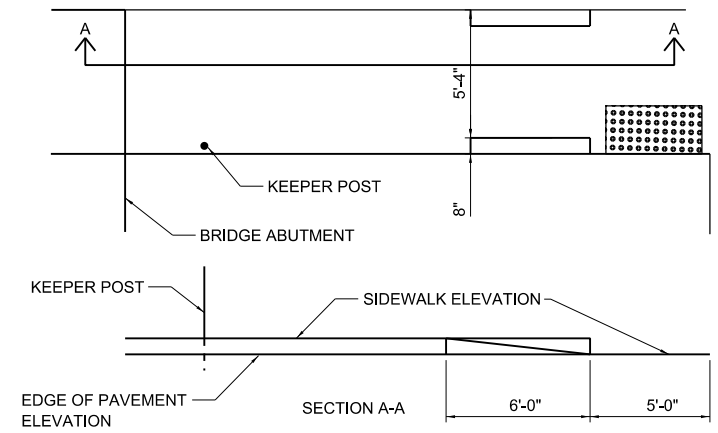
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	11
ILLINOIS FED. AID PROJECT				

JOB NO. 250-HI-0 VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-00207

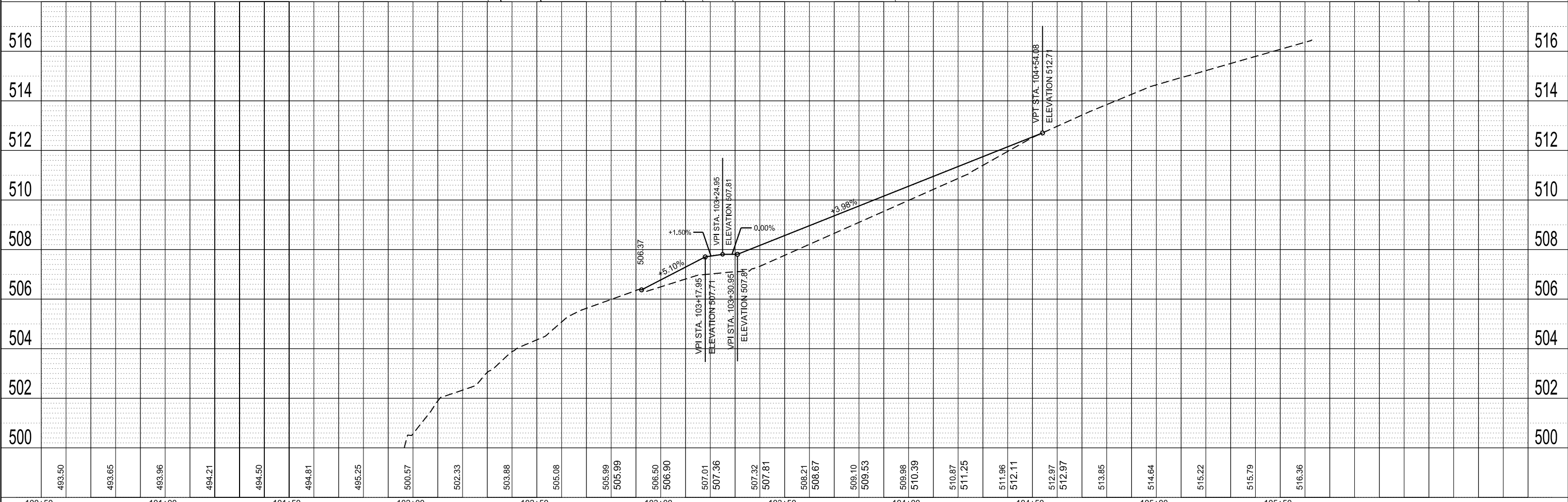
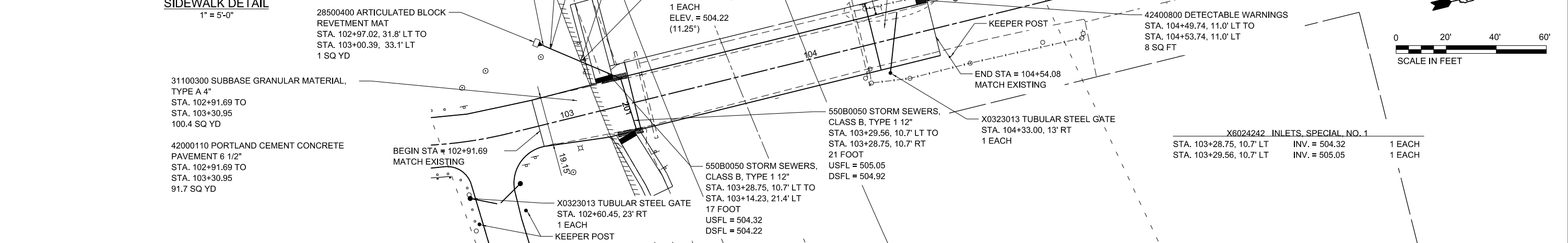
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	PLOTTED	BY
	ALIGNMENT CHECKED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHKD	
	NOTE BOOK NO.	
	CADD FILE NAME	

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

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SIDEWALK DETAIL
1" = 5'-0"



USER NAME =	Connor Bell	DESIGNED -	R.H.D.	REVISED -	
		DRAWN -	S.D.K.	REVISED -	
PLOT SCALE =	40,000' / in.	CHECKED -	R.H.D.	REVISED -	
PLOT DATE =	2/14/2019	DATE -	11/17/17	REVISED -	

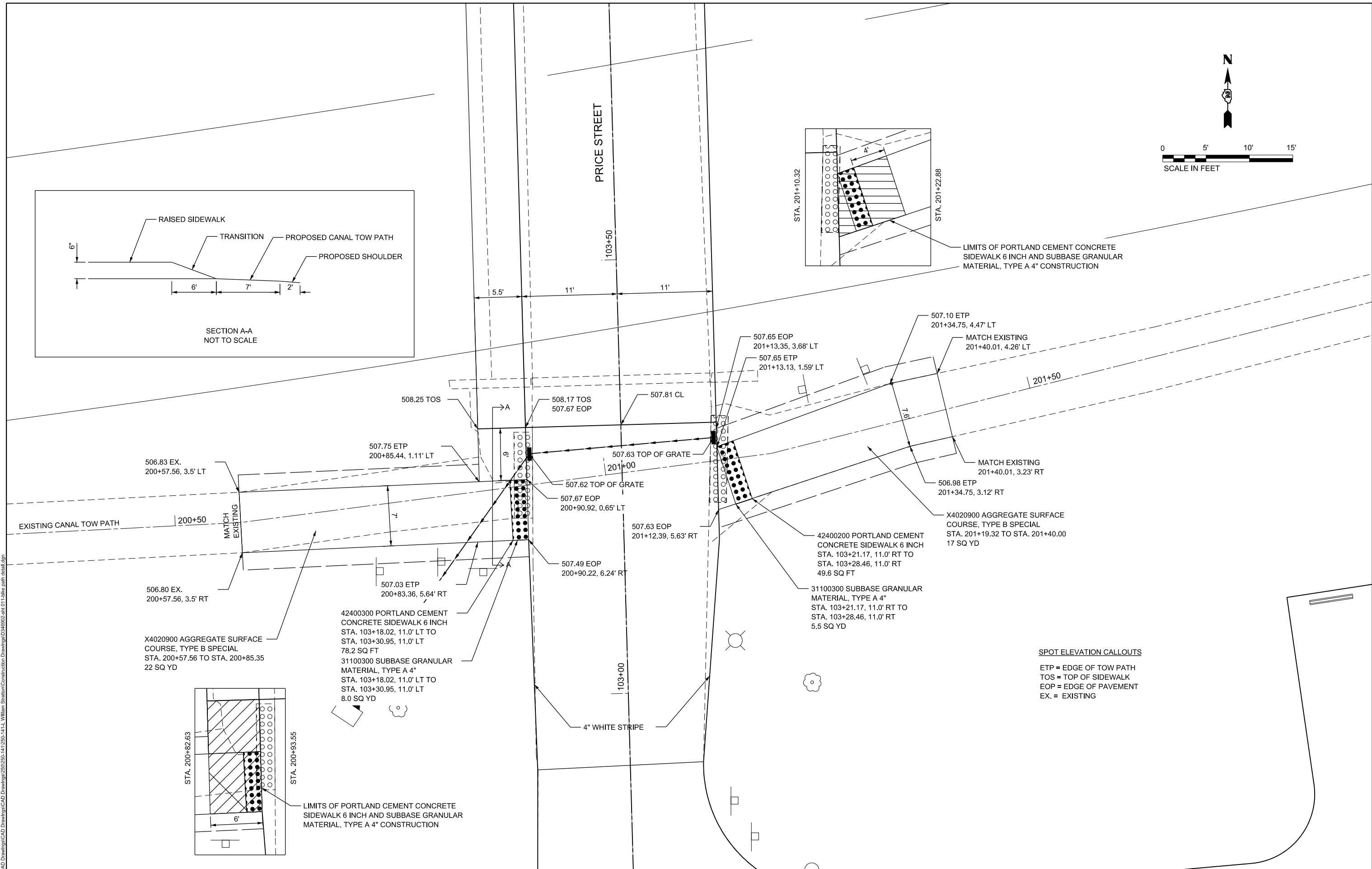
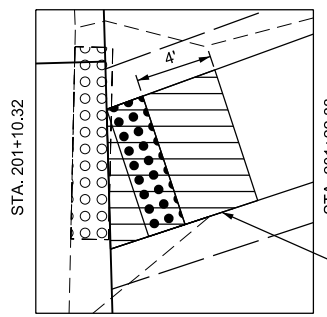
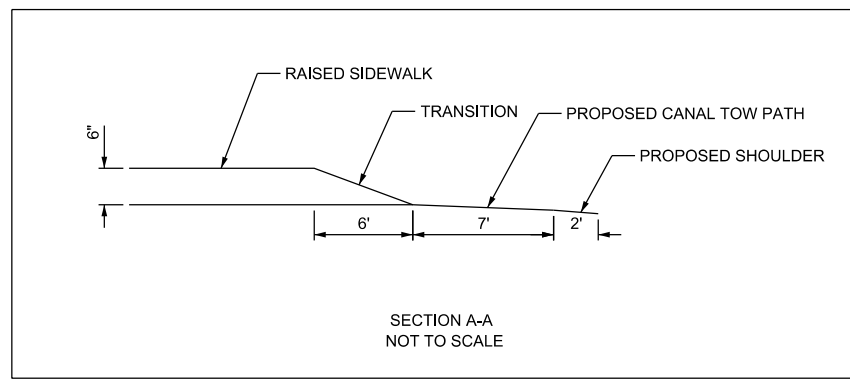
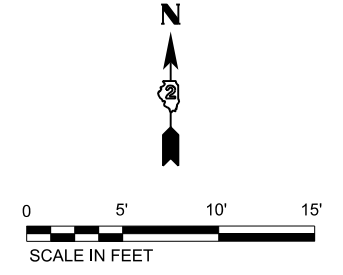
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRICE STREET PLAN/PROFILE
WILLIAM STRATTON STATE PARK

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	12
ILLINOIS FED. AID PROJECT			CONTRACT NO. 46902	

JOB NO. 250-141-0 VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



X4020900 AGGREGATE SURFACE COURSE, TYPE B SPECIAL
STA. 200+57.56 TO STA. 200+85.35
22 SQ YD

42400300 PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH
STA. 103+18.02, 11.0' LT TO STA. 103+30.95, 11.0' LT
78.2 SQ FT
31100300 SUBBASE GRANULAR MATERIAL, TYPE A 4"
STA. 103+18.02, 11.0' LT TO STA. 103+30.95, 11.0' LT
8.0 SQ YD

42400200 PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH
STA. 103+21.17, 11.0' RT TO STA. 103+28.46, 11.0' RT
49.6 SQ FT
31100300 SUBBASE GRANULAR MATERIAL, TYPE A 4"
STA. 103+21.17, 11.0' RT TO STA. 103+28.46, 11.0' RT
5.5 SQ YD

X4020900 AGGREGATE SURFACE COURSE, TYPE B SPECIAL
STA. 201+19.32 TO STA. 201+40.00
17 SQ YD

SPOT ELEVATION CALLOUTS
ETP = EDGE OF TOW PATH
TOS = TOP OF SIDEWALK
EOP = EDGE OF PAVEMENT
EX. = EXISTING

MODEL: D:\p\h\l S:\CAD Drawings\CAD Drawings\CAD Drawings\Construction Drawings\250\250-141-0250-141-1, William Stratton\Construction Drawings\250\250-141-0250-141-1\h\k\path_detail.dgn
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DRAWN - C.A.B.	REVISED -	
PLOT SCALE = 10.0000' / in.	CHECKED - R.H.D.	REVISED -
PLOT DATE = 2/14/2019	DATE - 11/17/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK GRADING DETAIL
WILLIAM STRATTON STATE PARK

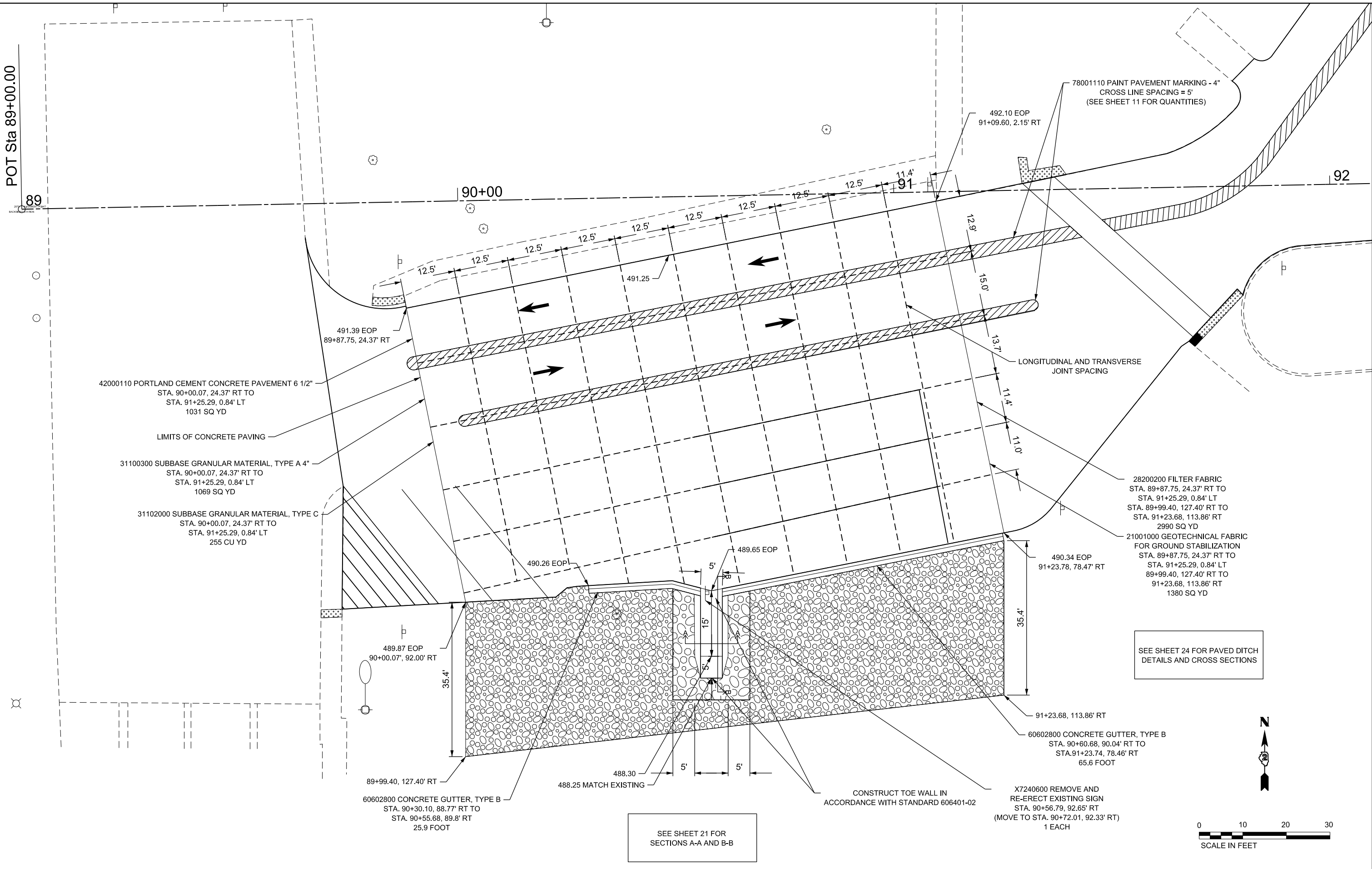
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	13
			CONTRACT NO. 46902	
		ILLINOIS	FED. AID PROJECT	

JOB NO. 250-141-0 VASCCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107

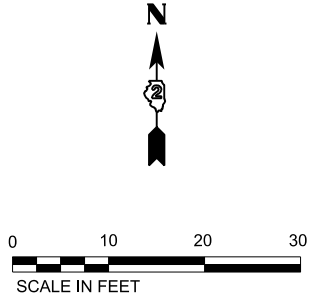
POT Sta 89+00.00

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SEE SHEET 24 FOR PAVED DITCH DETAILS AND CROSS SECTIONS

SEE SHEET 21 FOR SECTIONS A-A AND B-B



USER NAME = Connor Bell	DESIGNED - R.H.D.	REVISED -
	DRAWN - S.D.K.	REVISED -
PLOT SCALE = 20,000' / in.	CHECKED - R.H.D.	REVISED -
PLOT DATE = 2/14/2019	DATE - 11/17/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARKING LOT DETAILS
WILLIAM STRATTON STATE PARK

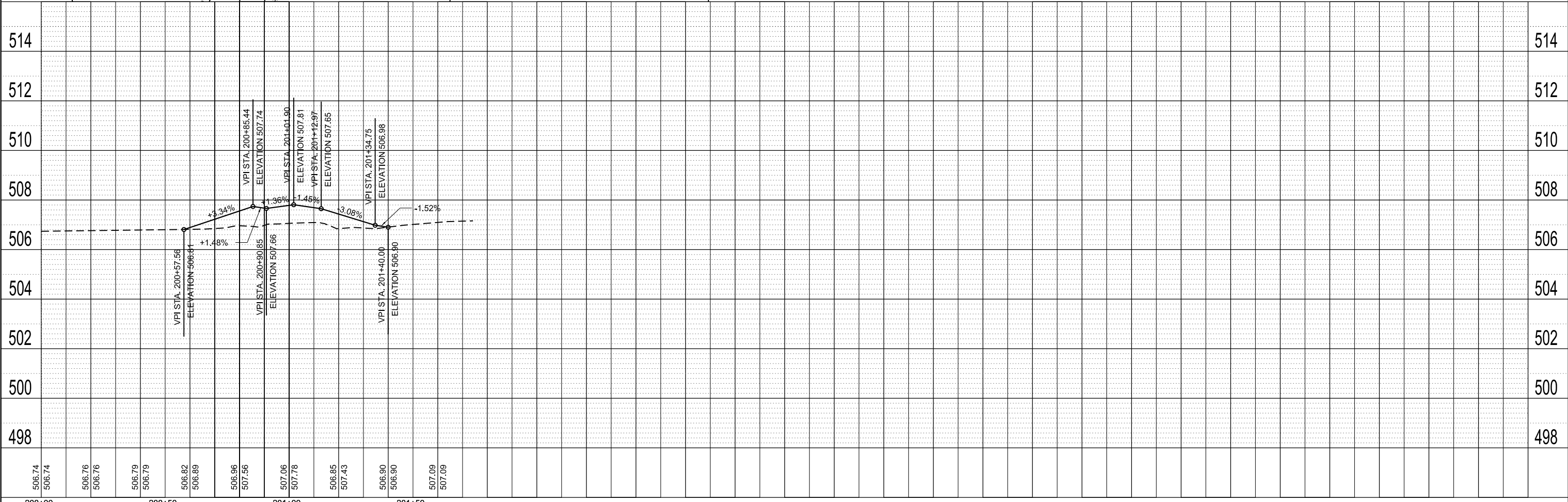
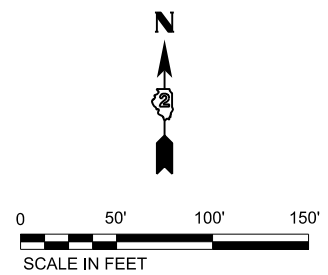
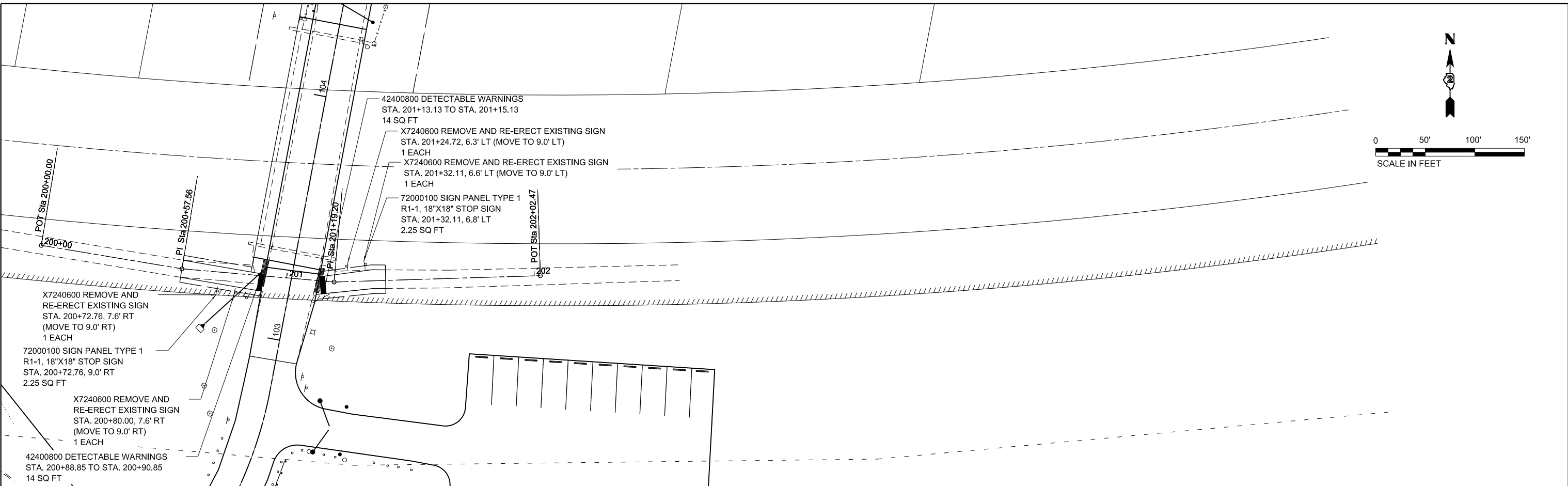
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	14
CONTRACT NO. 46902				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
	AS NOTED		
	CADD FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHKD		
	NO.		

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200+00				200+50				201+00				201+50					
USER NAME = Connor Bell		DESIGNED - R.H.D.	REVISED -	PLOT SCALE = 40,000' / in.		CHECKED - R.H.D.	REVISED -	PLOT DATE = 2/14/2019		DATE - 11/17/17	REVISED -						

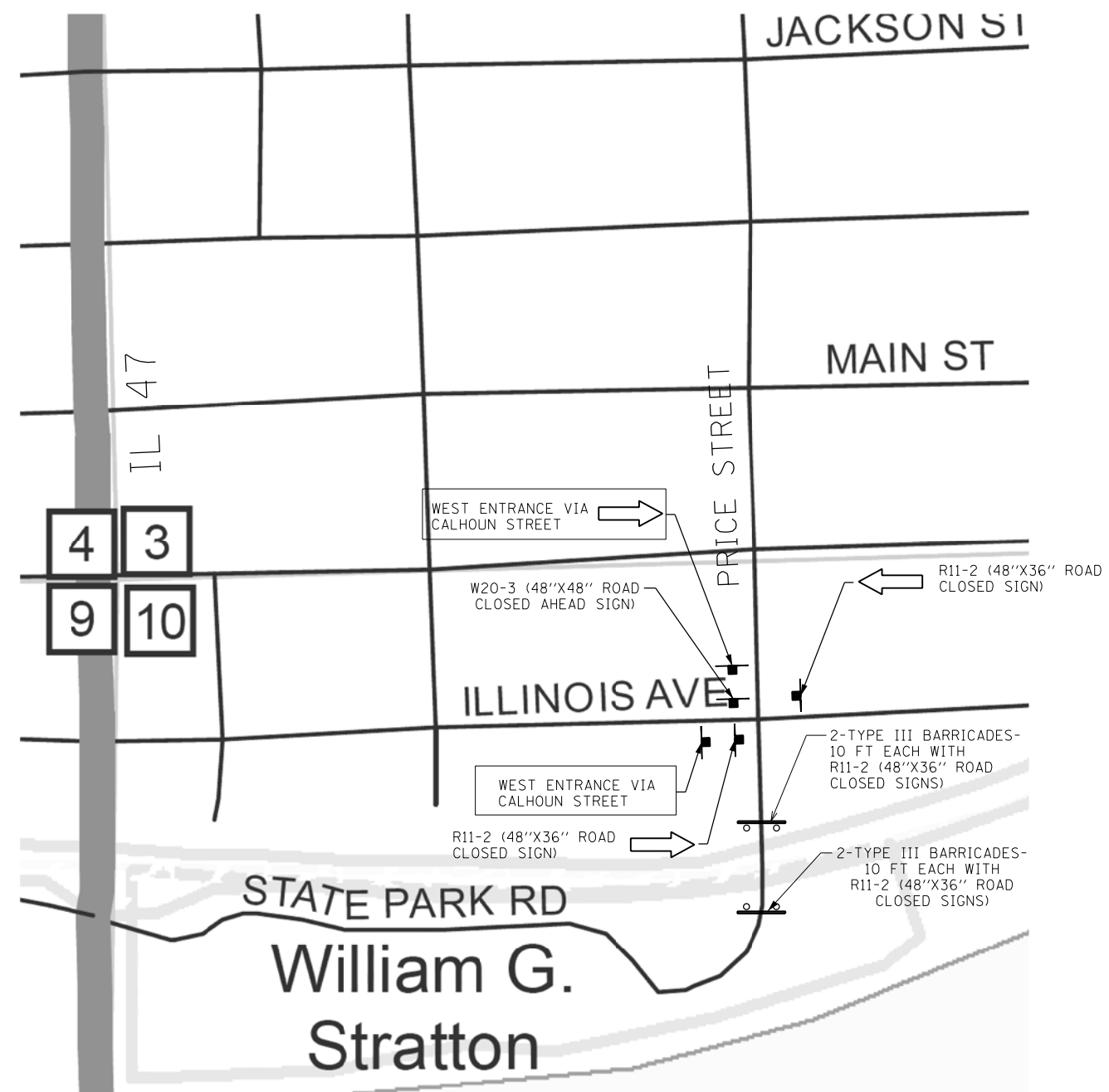
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANAL TOW PATH PLAN/PROFILE
WILLIAM STRATTON STATE PARK

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	15
CONTRACT NO. 46902				
ILLINOIS		FED. AID PROJECT		

JOB NO. 250-141-0 VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



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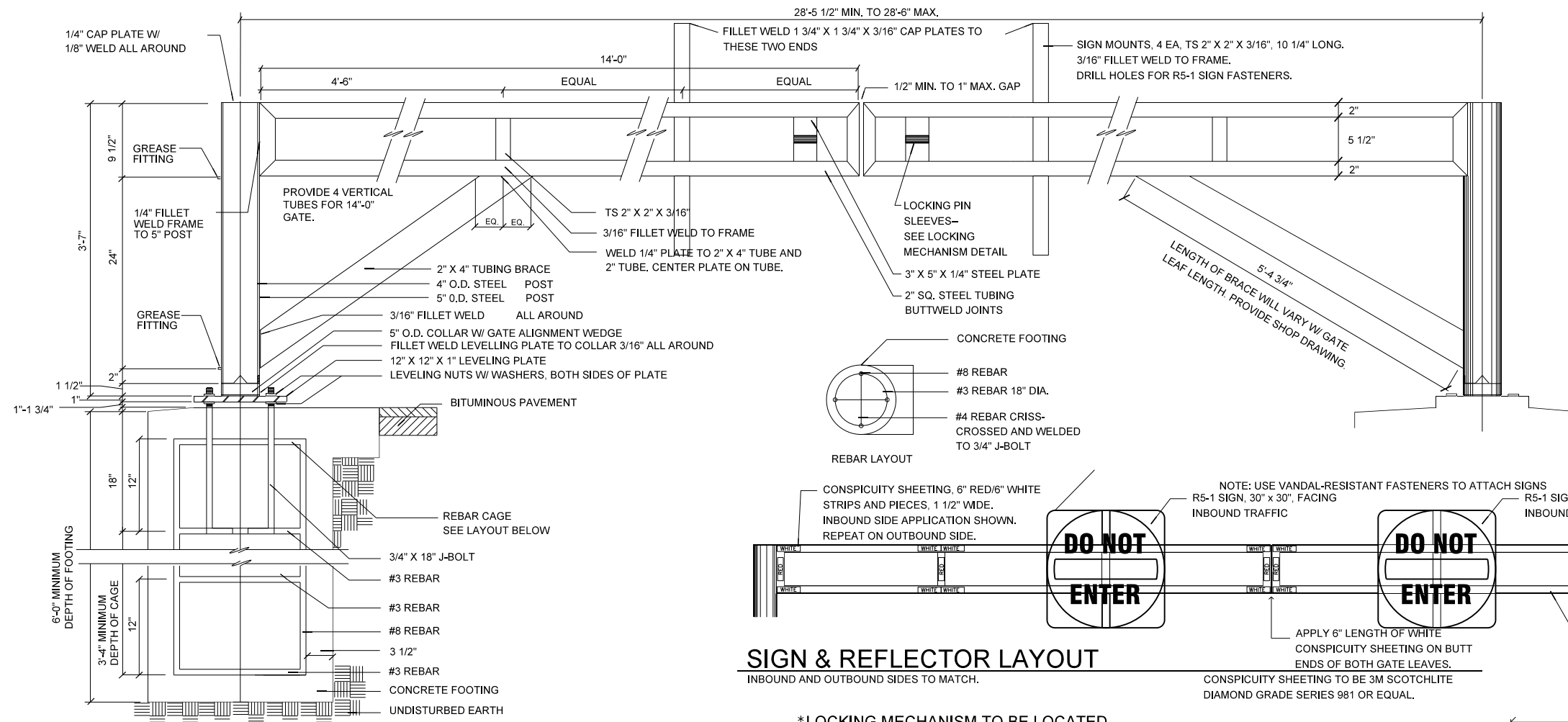
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	DRAWN - S.D.K.	REVISED -
PLOT SCALE = 40,000' / in.	CHECKED - R.H.D.	REVISED -
PLOT DATE = 2/14/2019	DATE - 11/17/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL
WILLIAM STRATTON STATE PARK

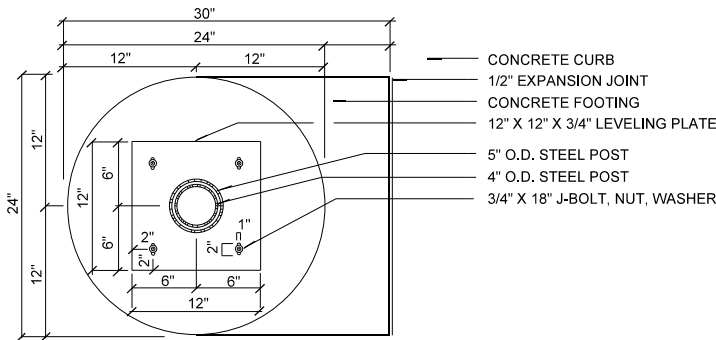
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	16
CONTRACT NO. 46902				
ILLINOIS		FED. AID PROJECT		



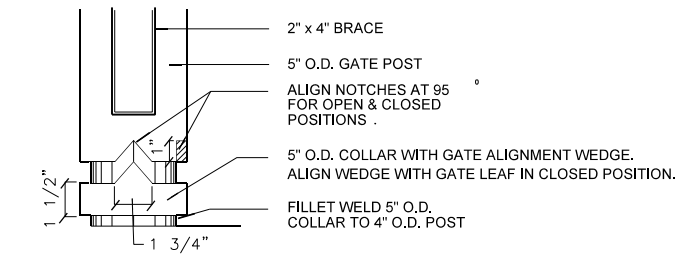
SWING GATE--HINGE POST SIDE - DOUBLE LEAF

STA. 89+79.20, 165.1' LT
STA. 102+60.45, 23.0' RT



FOOTING PLAN

PLAN

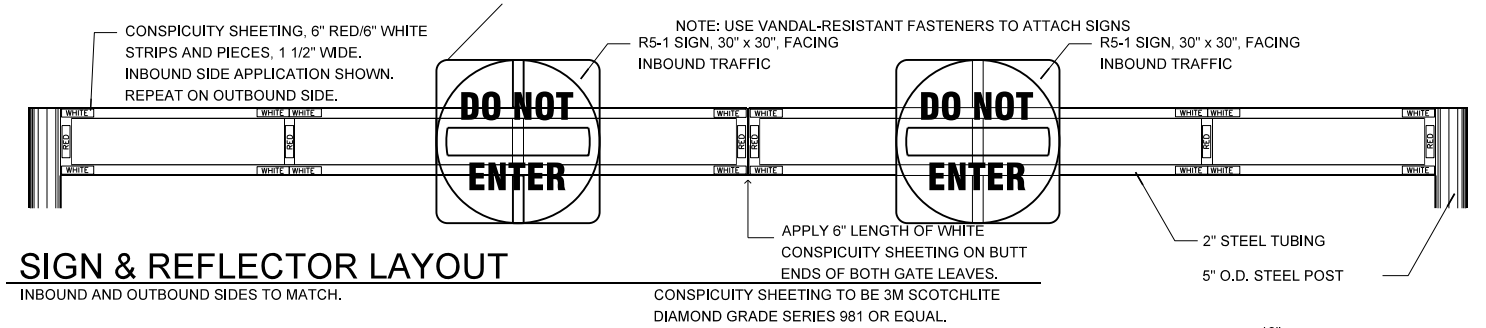


POST, SLEEVE & COLLAR

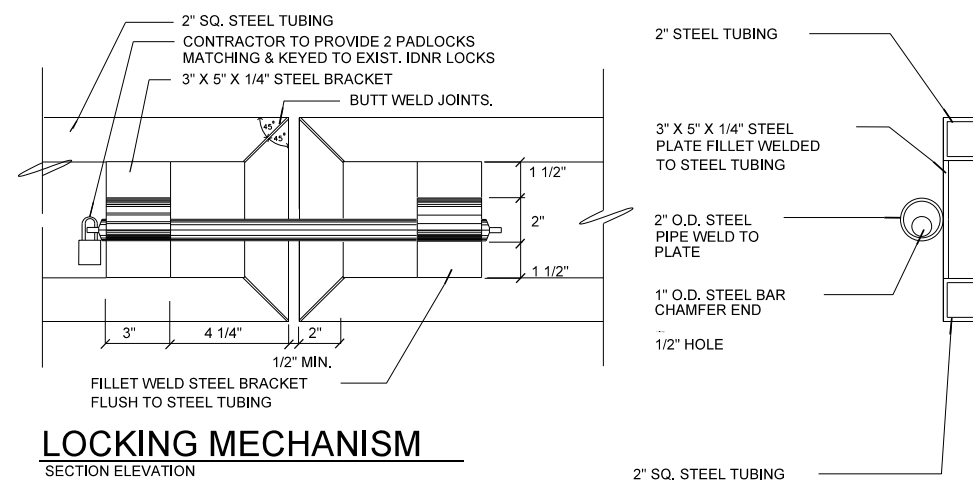
ELEVATION

SIGN & REFLECTOR LAYOUT

INBOUND AND OUTBOUND SIDES TO MATCH.

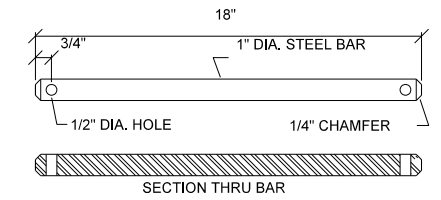


*LOCKING MECHANISM TO BE LOCATED ON THE FRONT SIDE OF SWING GATE

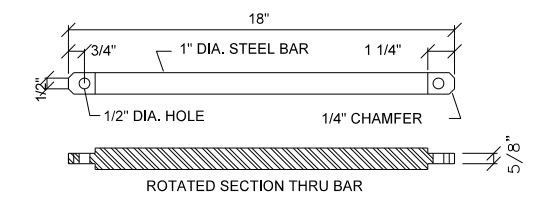


LOCKING MECHANISM

SECTION ELEVATION



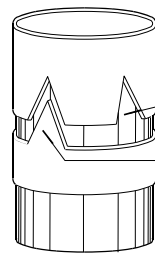
TYPE A LOCKING PIN



TYPE B LOCKING PIN

LOCKING PIN

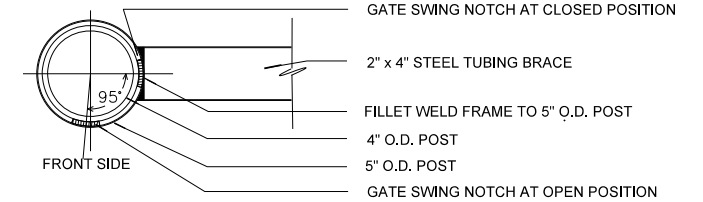
PROVIDE 2 EA OF 1 TYPE AS SPECIFIED



ISOMETRIC

CUT TWO NOTCHES ON 5\"/>

CUT SINGLE WEDGE IN 5\"/>



HINGE POST

SECTION

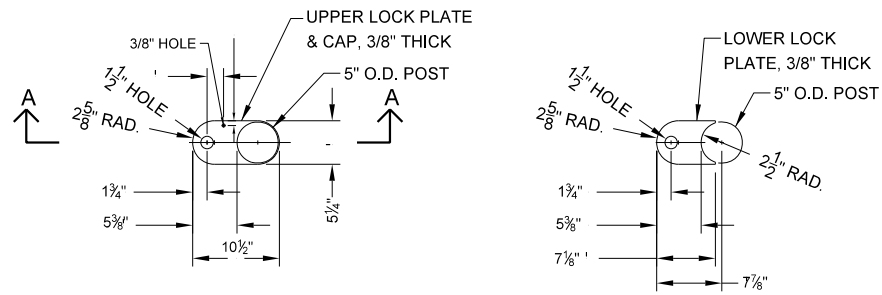
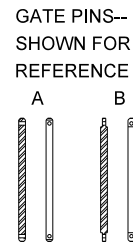
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN AND GATE DETAILS
WILLIAM STRATTON STATE PARK

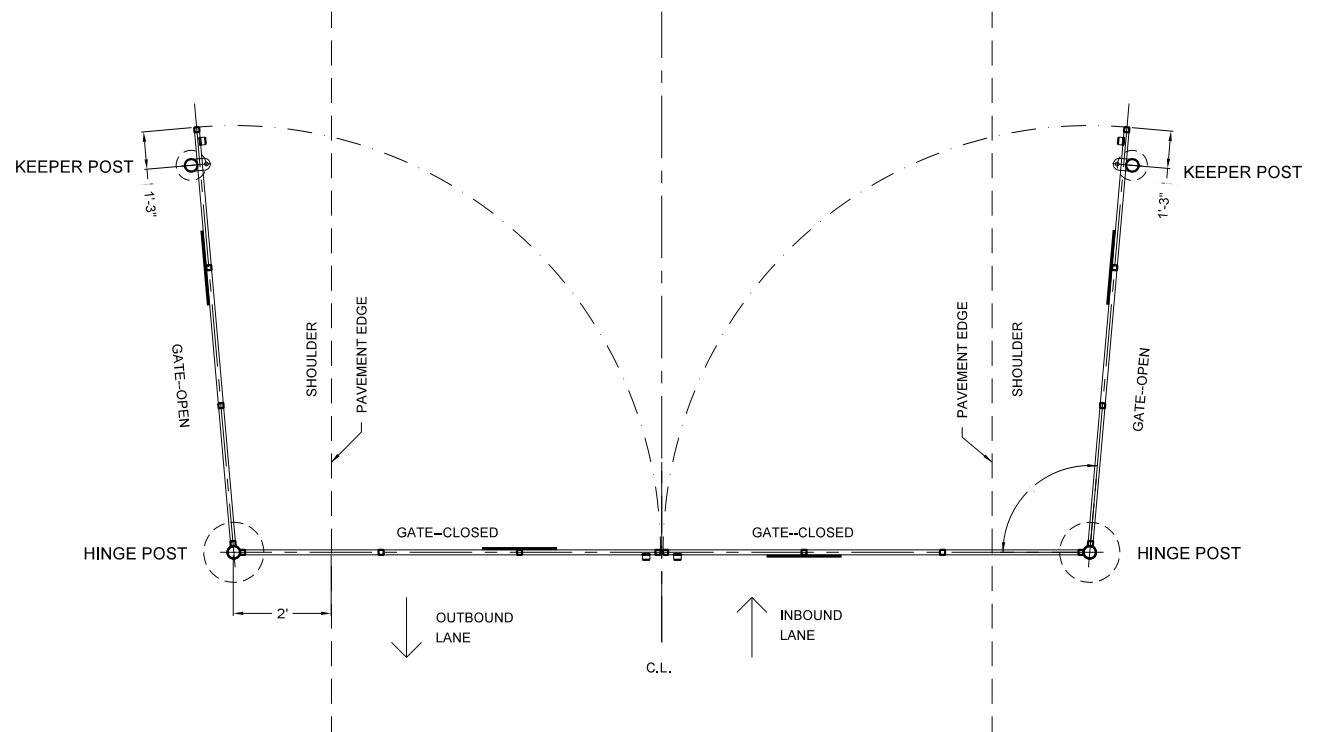
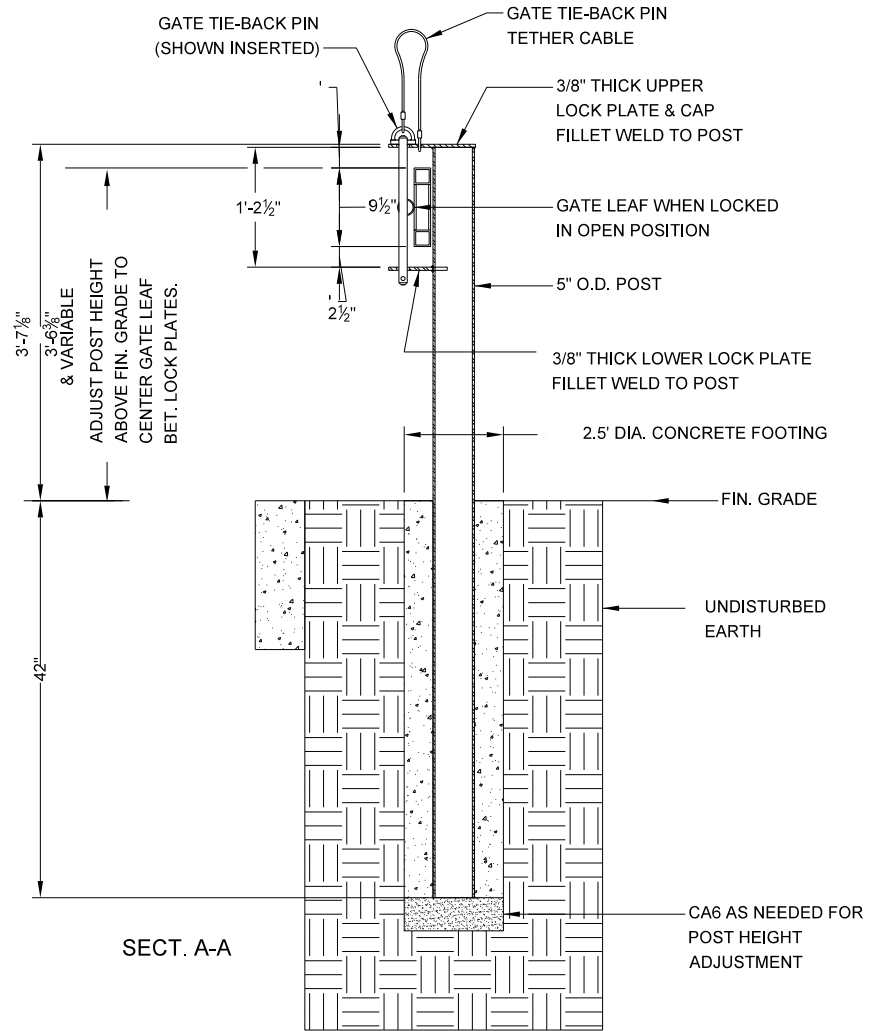
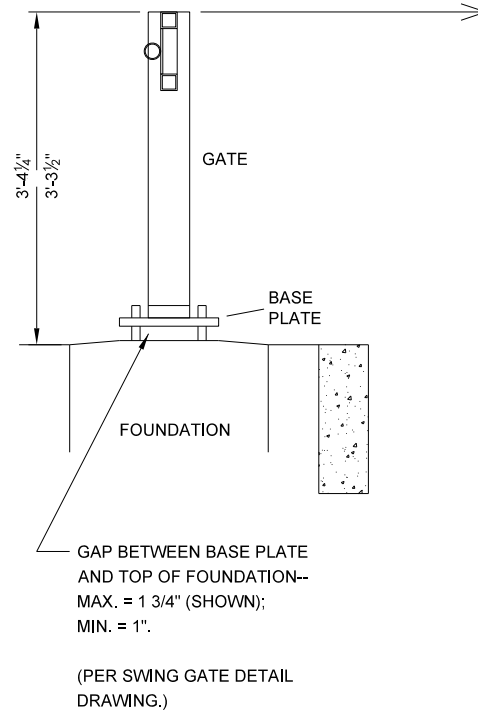
SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	17
			CONTRACT NO. 46902	
		ILLINOIS	FED. AID PROJECT	

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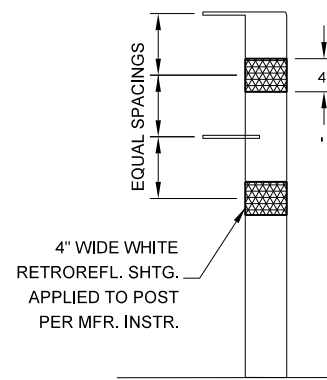
SWING GATE ASSEMBLY--
SHOWN FOR REFERENCE



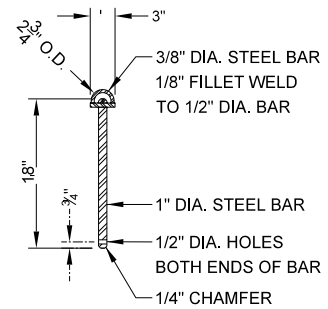
TYPICAL SWING GATE
TIE-BACK POST
SITE PLAN

STA. 89+79.20, 165.1' LT
STA. 102+60.45, 23.0' RT

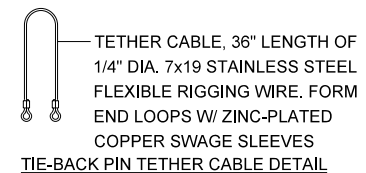
GATE TIE-BACK POST DETAILS



RETROREFLECTIVE
SHEETING DETAIL



GATE TIE-BACK PIN DETAIL



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

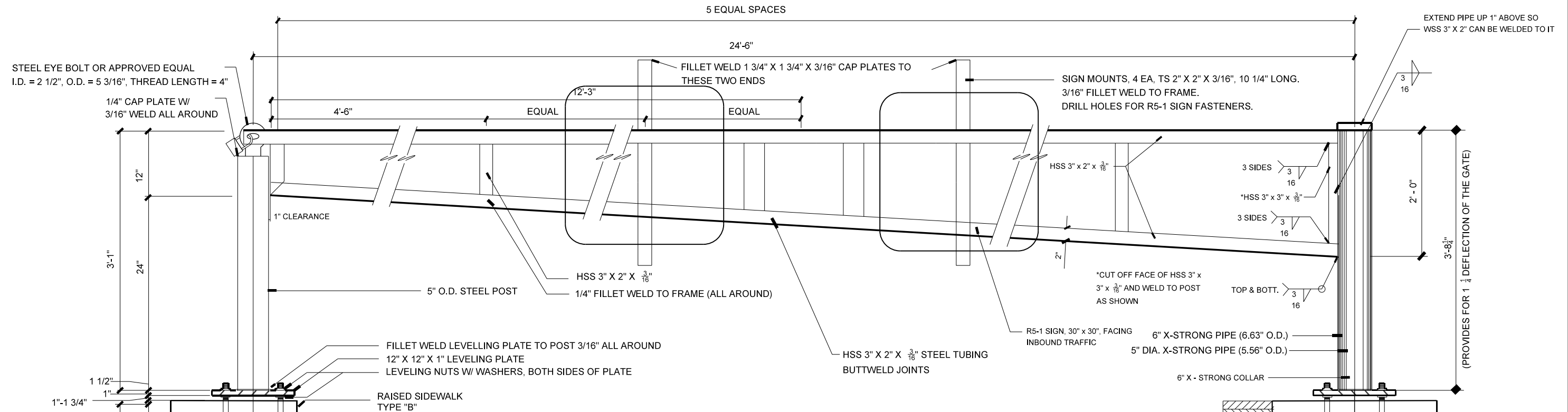
SIGN AND GATE DETAILS
WILLIAM STRATTON STATE PARK

USER NAME = Connor Bell	DESIGNED - R.H.D.	REVISED -
PLOT SCALE = 40,000' / in.	DRAWN - S.D.K.	REVISED -
PLOT DATE = 2/26/2019	CHECKED - R.H.D.	REVISED -
	DATE - 11/30/17	REVISED -

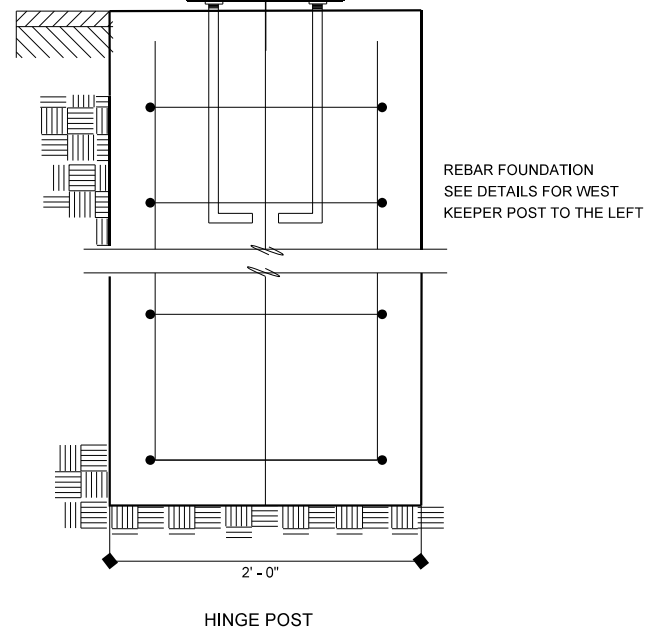
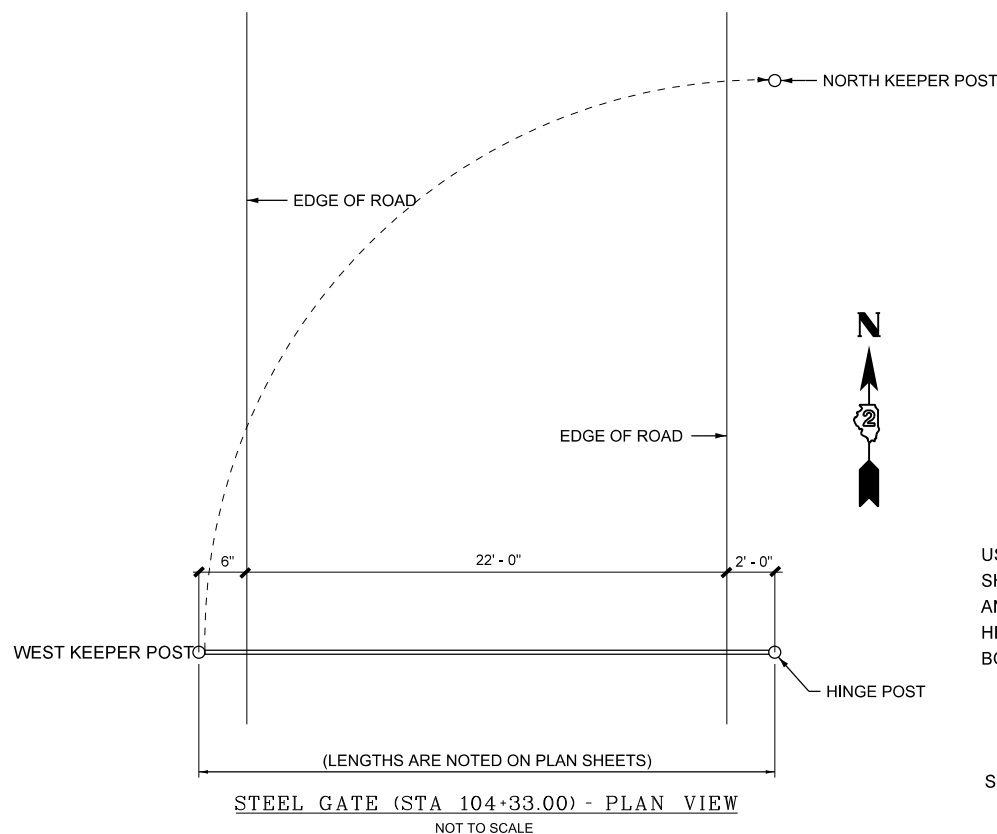
SCALE: N.T.S.	SHEET OF SHEETS	STA. TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	18
CONTRACT NO. 46902				
ILLINOIS FED. AID PROJECT				

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SWING GATE--FRONT SIDE - SINGLE LEAF
 STA. 104+33.00, 13.0' RT



NORTH KEEPER POST
 USE A 5" O.D. STEEL POST, 7 FT. LONG, WITH STEEL EYE BOLT SHOWN ON THIS SHEET. USE THE CONCRETE FOOTING CONFIGURATION AND RETROFLECTIVE SHEETING SHOWN ON SHEET 18. ADJUST POST HEIGHT ABOVE FINAL GRADE TO ASSURE APPROPRIATE HEIGHT OF EYE BOLT FOR LOCKING.

SEE SHEET 17 FOR SIGN AND REFLECTOR LAYOUT



R5-1 SIGN, 30" X 30" DETAIL

X0323013 TUBULAR STEEL GATE

STA.	GATE LENGTH	GATE STYLE
89+79.20, 165.1' LT	28'-5 1/2" - 28'-6"	DOUBLE LEAF
102+60.45, 23.0' RT	28'-5 1/2" - 28'-6"	DOUBLE LEAF
104+33.00, 13.0' RT	24'-6"	SINGLE LEAF

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USER NAME = Connor Bell	DESIGNED - R.H.D.	REVISED -
PLOT SCALE = 40,000' / in.	DRAWN - S.D.K.	REVISED -
PLOT DATE = 2/26/2019	CHECKED - R.H.D.	REVISED -
	DATE - 11/30/17	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SIGN AND GATE DETAILS
 WILLIAM STRATTON STATE PARK

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	19
CONTRACT NO. 46902				
ILLINOIS		FED. AID PROJECT		

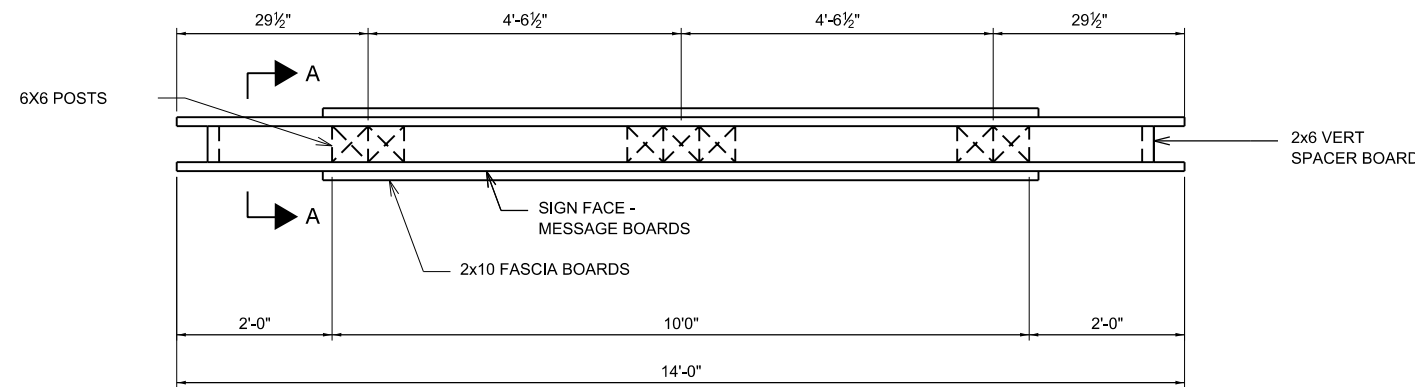
SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

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

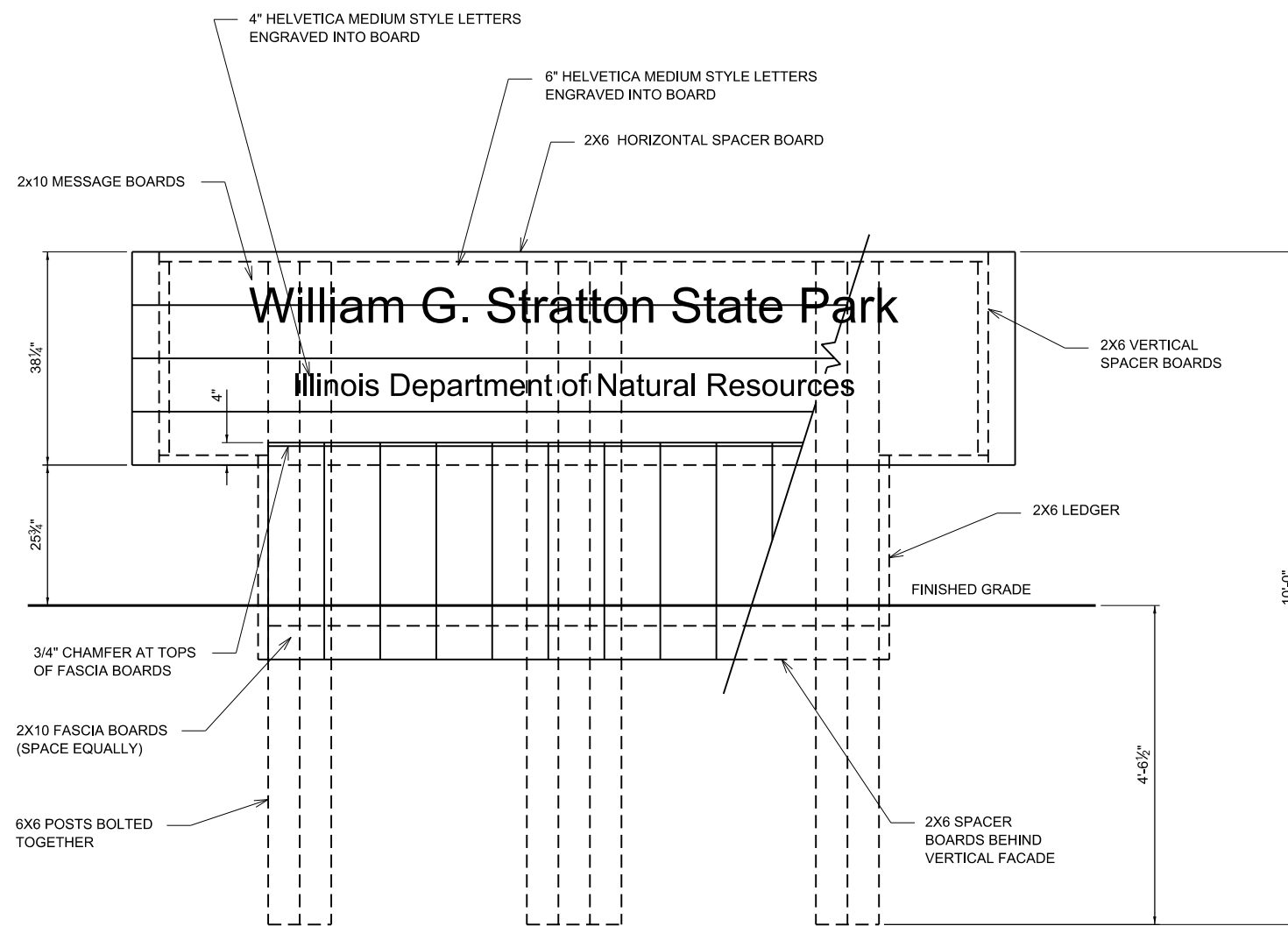
ITEM	LENGTH	QUAN.	REMARKS
6X6 POST	10'-0"	7 EA.	10'-0"
2X6 SPACER AND LEDGER BOARD	14'-0"	4 EA.	CUT VARIOUS LENGTHS TO FIT
2X10 MESSAGE BOARD	14'-0"	8 EA.	14'-0"
2X10 BOTTOM FASCIA BOARDS	3'-4"	28 EA.	SEE DETAIL VIEW - CHAMFER TOP OF BOARD

GENERAL NOTES:

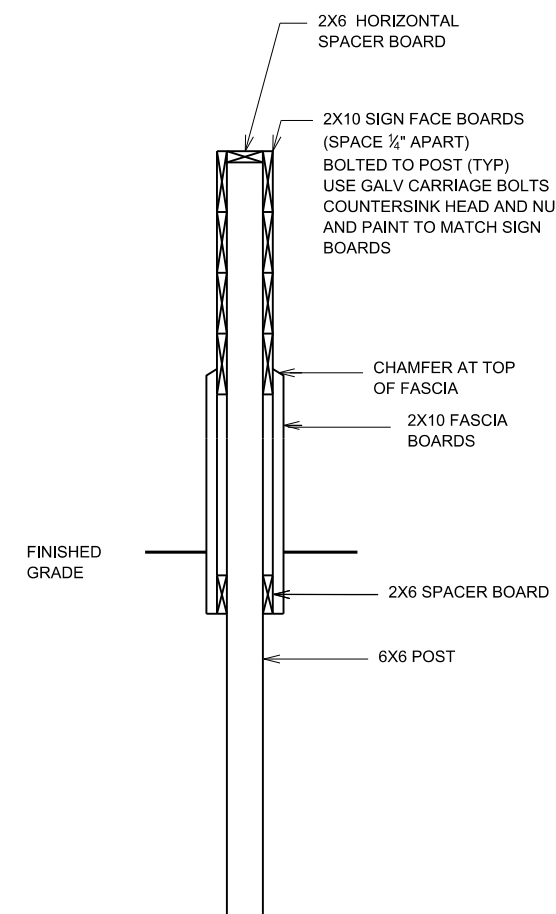
- ALL LUMBER IS FIBERGLASS REINFORCED RECYCLED PLASTIC, BROWN IN COLOR WITH A WHITE CORE. SUBMIT SAMPLES TO IDNR LANDSCAPE ARCHITECT FOR COLOR SELECTION PRIOR TO FABRICATION.
- ALL LETTERING IS TO BE HELVETICA MEDIUM WUPPER AND LOWER CASE LETTERS. LETTERS ARE TO BE ENGRAVED WITH A COMPUTER OR TEMPLATE DRIVER ROUTER SYSTEM.



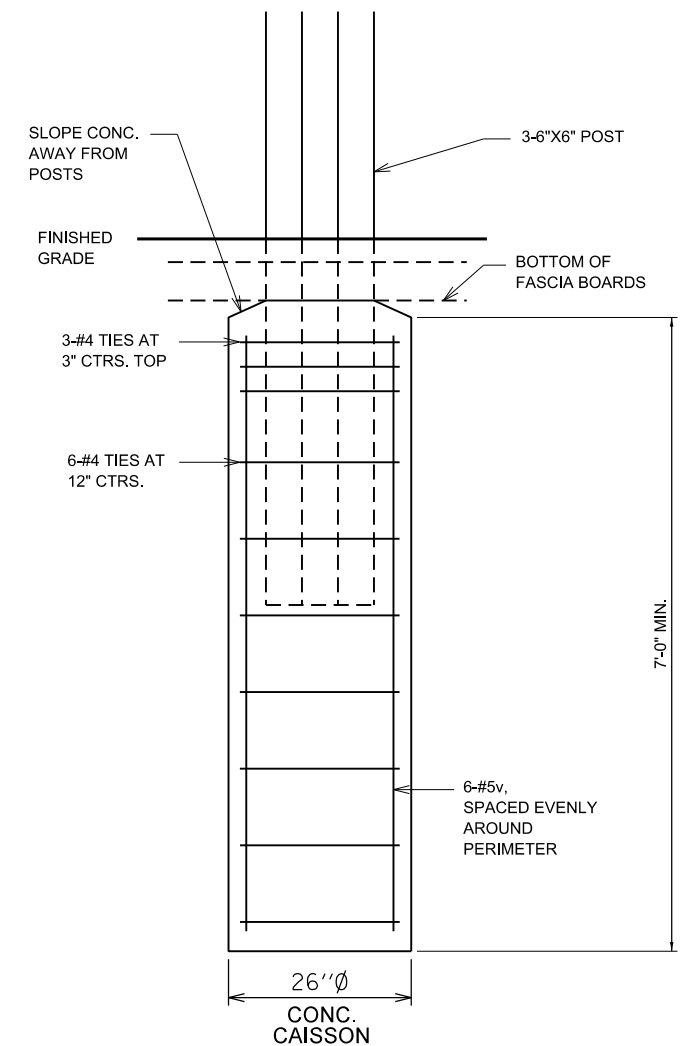
TOP VIEW



FRONT VIEW (LETTERING IS REPEATED ON OPPOSITE SIDE)



SECTION A-A



SECTION THRU FOUNDATION

$f_c = 4,000 \text{ PSI}$
 $F_y = 60,000 \text{ PSI (REINF.)}$

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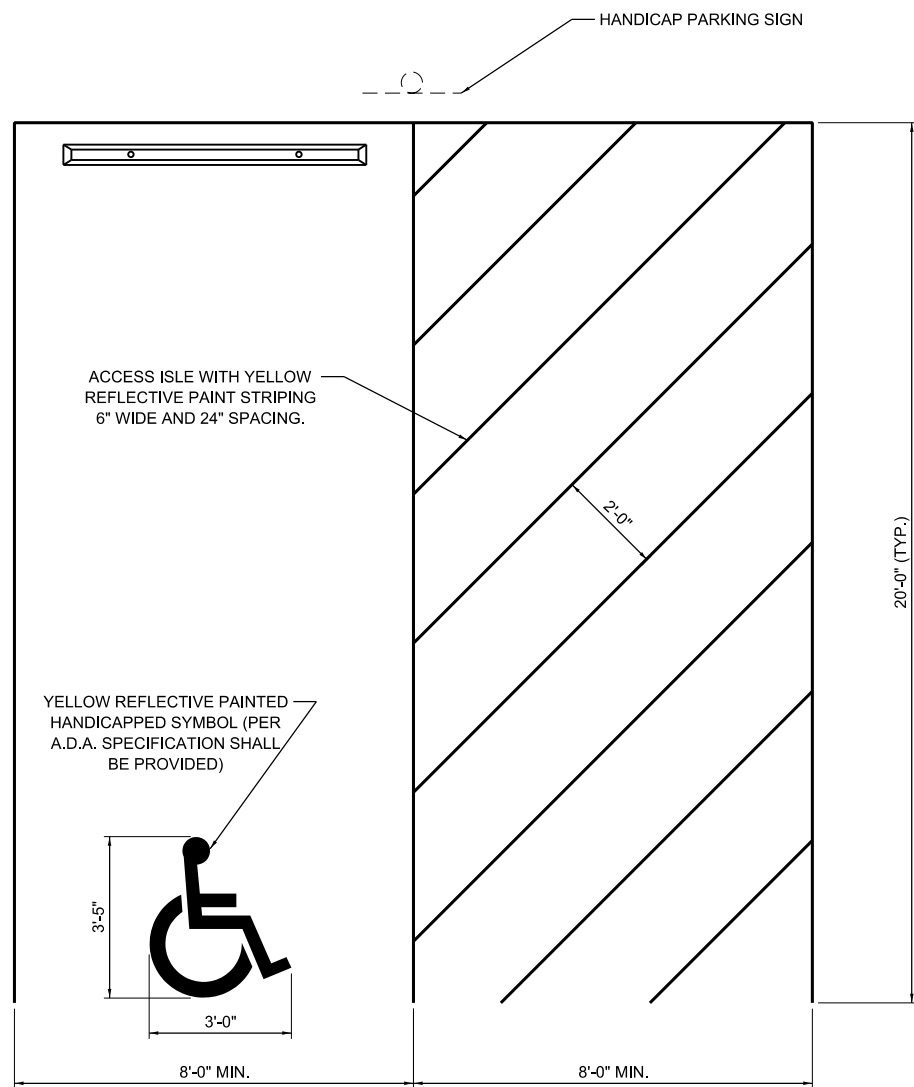
JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107

USER NAME = Connor Bell	DESIGNED - R.H.D.	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN - S.D.K.	REVISED -
PLOT DATE = 2/14/2019	CHECKED - R.H.D.	REVISED -
	DATE - 11/30/17	REVISED -

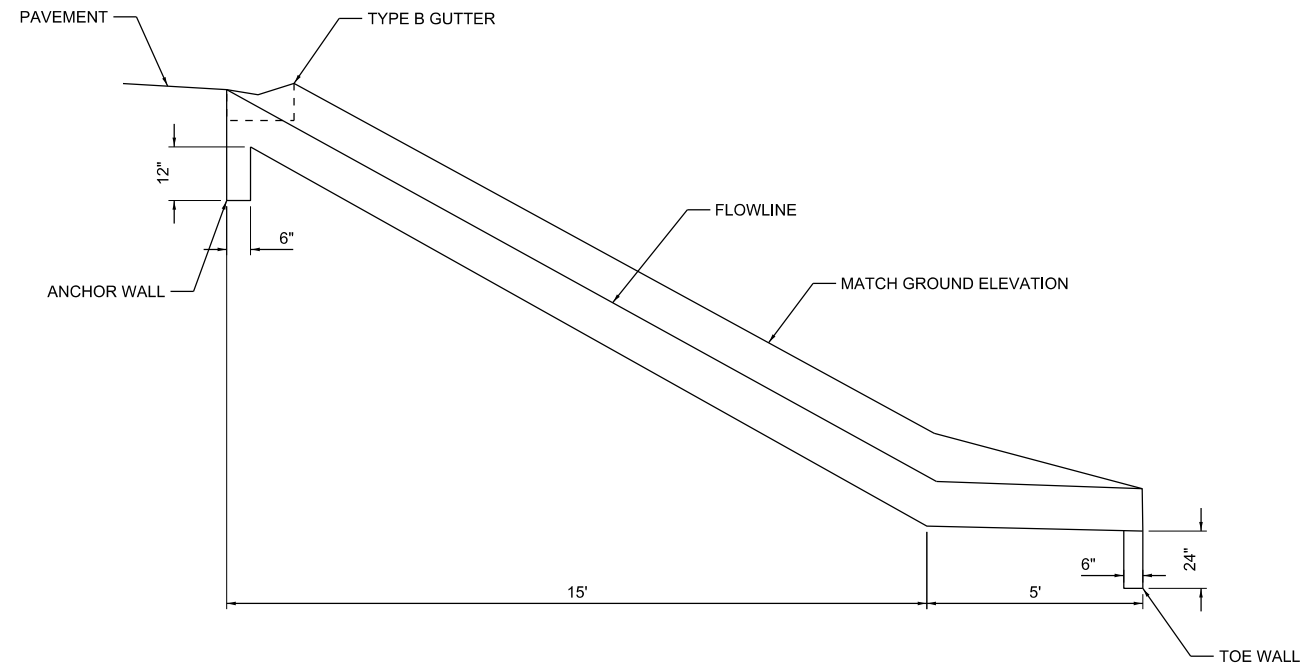
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ENTRANCE SIGN DETAILS WILLIAM STRATTON STATE PARK			
SCALE: N.T.S.	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	20
CONTRACT NO. 46902				
ILLINOIS FED. AID PROJECT				



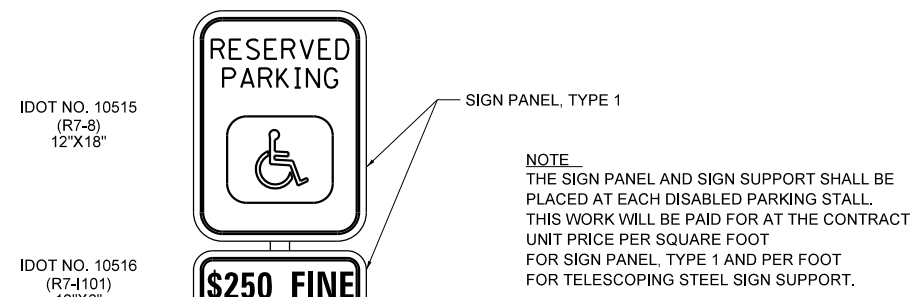
HANDICAP PARKING SPACE DETAIL



PAVED DITCH CROSS SECTION
 STA. 90+56.46, 90.48' RT
 SECTION B-B
 NOT TO SCALE

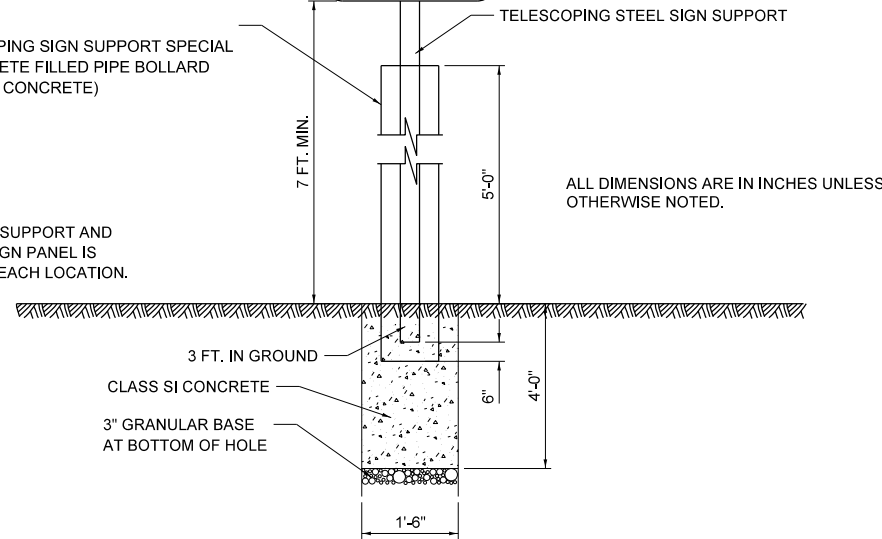
RESERVED PARKING SIGN DETAIL

NOTE
 WHERE NOTED IN THE PLANS, A PIPE BOLLARD SHALL BE INSTALLED TO PROTECT THE SIGN SUPPORT.

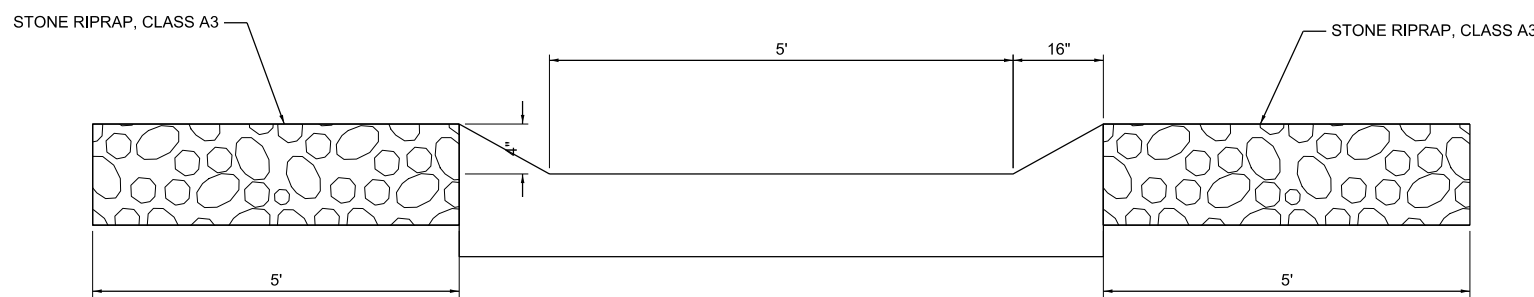


NOTE
 THE SIGN PANEL AND SIGN SUPPORT SHALL BE PLACED AT EACH DISABLED PARKING STALL. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR SIGN PANEL, TYPE 1 AND PER FOOT FOR TELESCOPING STEEL SIGN SUPPORT.

QUANTITIES
 12 FT OF SIGN SUPPORT AND
 2 SQ. FT. OF SIGN PANEL IS
 REQUIRED AT EACH LOCATION.



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



PAVED DITCH CROSS SECTION
 STA. 90+56.46, 90.48' RT
 SECTION A-A
 NOT TO SCALE

SEE SHEETS 8, 11, AND 14 FOR RIPRAP LOCATION, SIZE, DEPTH, AND FABRIC DETAILS

MODEL: D:\p\h\l S:\CAD Drawings\CAD Drawings\250\250-141\250-141-11-William Stratton\Construction Drawings\250\250-141-11-Details.dgn
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USER NAME = Connor Bell	DESIGNED - R.H.D.	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN - S.D.K.	REVISED -
PLOT DATE = 2/14/2019	CHECKED - R.H.D.	REVISED -
	DATE - 11/30/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HANDICAP SPACE, SIGN, AND PAVED DITCH DETAILS
WILLIAM STRATTON STATE PARK
 SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	21
ILLINOIS FED. AID PROJECT				

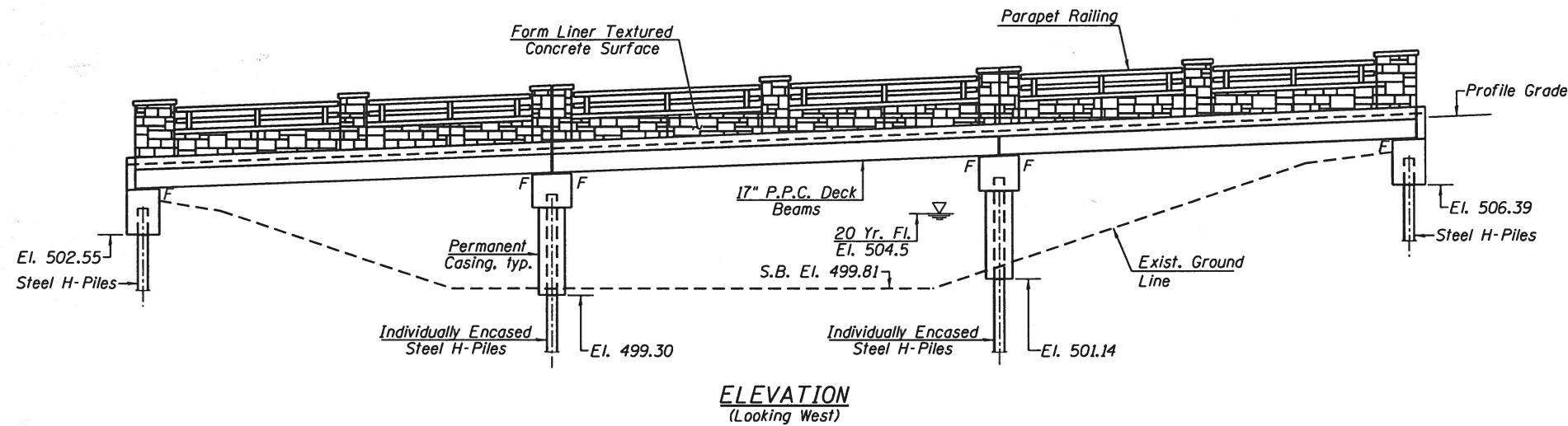
CONTRACT NO. 46902

Benchmark "A": Mag nail in curb of landscape island located in middle of parking lot. Elev. 495.57

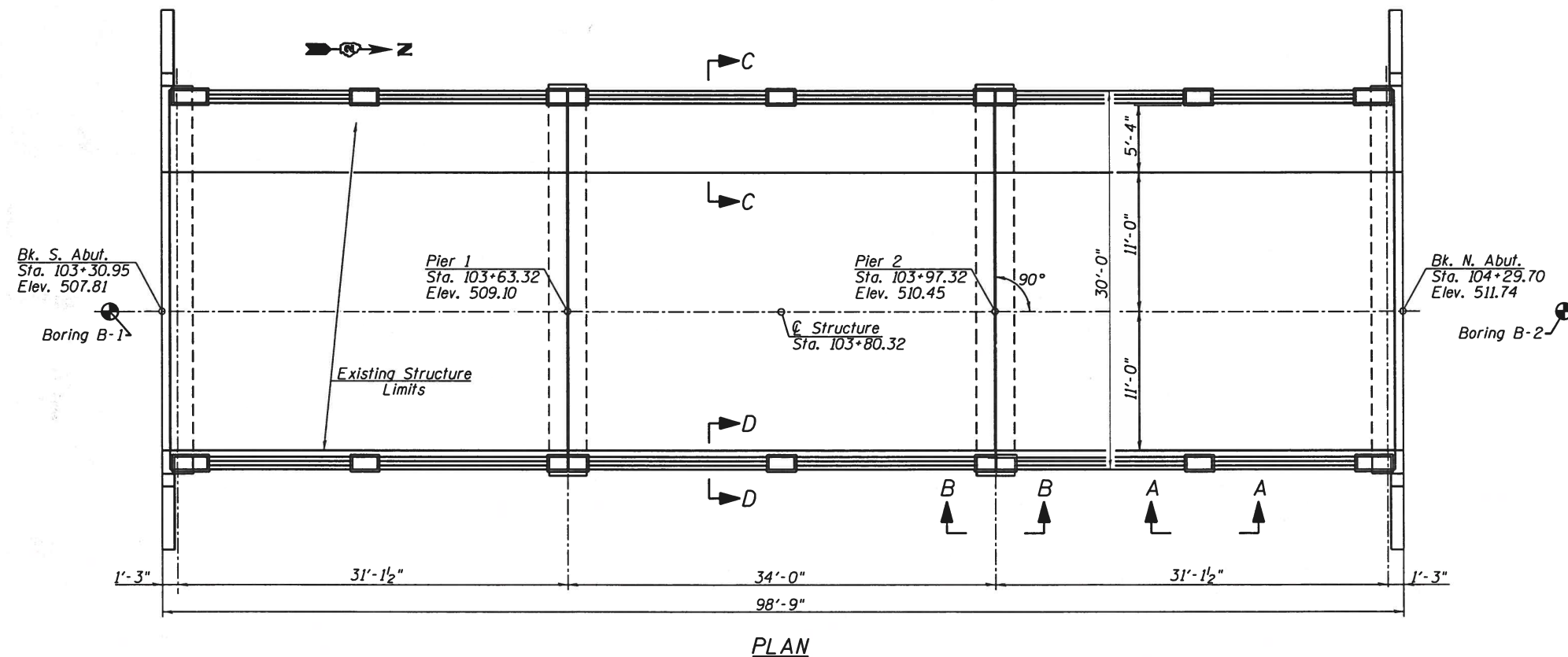
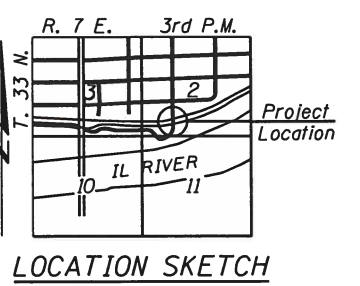
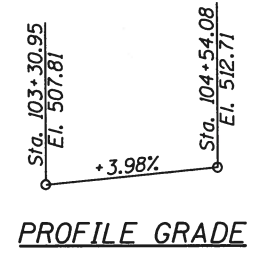
Existing Structure: S.N. 032-7004. Built in 1965 at Station 13+14.36.
 Structure consists of three span steel I-beam bridge with timber deck and timber sidewalk on West side. The bridge is supported by spill-thru abutments with concrete cap and timber piles, and pile bent piers with concrete cap and timber piles. 89'-8 1/2" Bk.-Bk. Abutments, 26'-0" out-out deck. 0° skew.
 Project to be built under road closure.

INDEX OF SHEETS

- 1 - General Plan & Elevation
- 2 - General Data
- 3 - Wearing Surface Elevations
- 4 - Superstructure
- 5 - Superstructure Details
- 6 - Concrete Bridge Railing
- 7 - Parapet Railing
- 8 - P.P.C. Deck Beam, Spans 1 & 3
- 9 - P.P.C. Deck Beam Details, Spans 1 & 3
- 10 - P.P.C. Deck Beam, Span 2
- 11 - P.P.C. Deck Beam Details, Span 2
- 12 - South Abutment
- 13 - North Abutment
- 14 - Pier 1
- 15 - Pier 2
- 16 - HP Pile Details
- 17-19 - Boring Logs



ILLINOIS MICHIGAN CANAL
 BUILT 20 BY
 STATE OF ILLINOIS
 SECTION STRATTON 2018
 STATION 103+80.32
 STR. NO. 032-7099
 LOADING HL-93
NAME PLATE
 See Std. 515001



Mark A. Henderson 2/14/19
 Expiration 11/30/2020

GENERAL PLAN & ELEVATION
 PRICE STREET OVER
 ILLINOIS MICHIGAN CANAL
 GRUNDY COUNTY
 STA. 103+80.32
 STRUCTURE NO. 032-7099

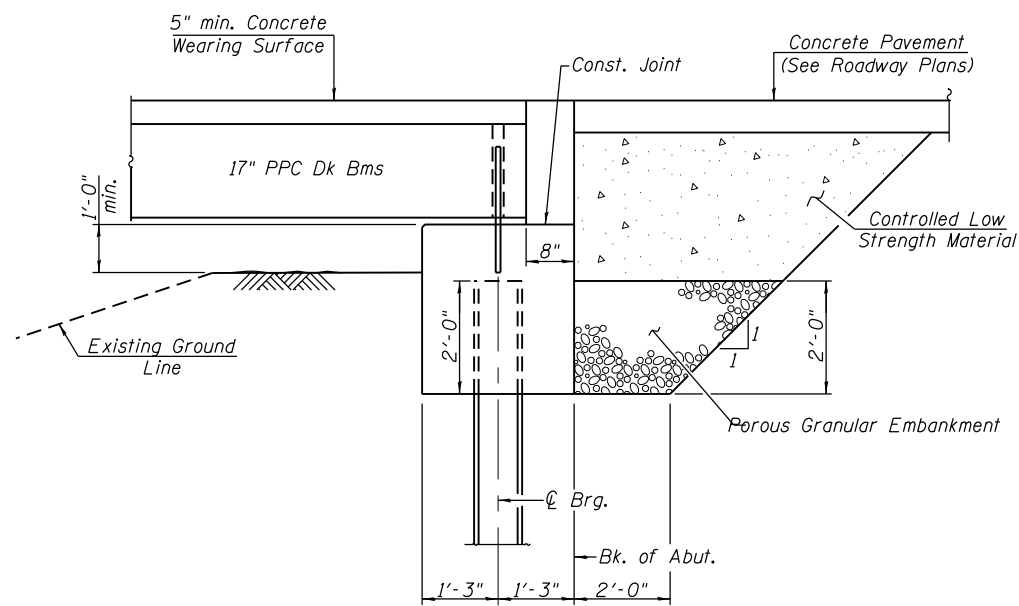


USER NAME =	DESIGNED - KES	REVISED -
PLOT SCALE =	CHECKED - MAH	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - KES	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
 STRUCTURE NO. 032-7099
 SHEET NO. 1 OF 19 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	22
			CONTRACT NO. 46902	
ILLINOIS FED. AID PROJECT				



SECTION THRU ABUTMENT

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Porous Granular Embankment	Cu. Yd.		19	19
Removal of Existing Structures	Each	1		1
Structure Excavation	Cu. Yd.		102	102
Concrete Structures	Cu. Yd.		45.4	45.4
Concrete Superstructure	Cu. Yd.	31.0		31.0
Bridge Decking Grooving	Sq. Yd.	217		217
Concrete Encasement	Cu. Yd.		5.5	5.5
Form Liner Textured Surface	Sq. Ft.	854		854
Protective Coat	Sq. Yd.	318		318
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	2918		2918
Painting Steel Railing	Foot	154		154
Reinforcement Bars, Epoxy Coated	Pound	6800	6680	13,480
Parapet Railing	Foot	154		154
Furnishing Steel Piles HP 12 x 53	Foot		965	965
Driving Piles	Foot		965	965
Name Plates	Each	1		1
Permanent Casing	Foot		48	48
Controlled Low-Strength Material	Cu. Yd.		28.8	28.8
Concrete Bridge Railing	Foot	195		195
Staining Concrete Structures	Sq. Ft.	1842		1842
Concrete Wearing Surface, 5"	Sq. Yd.	239		239

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. 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. 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.
3. The existing structural steel coating contains lead. The contractor shall take appropriate precautions to deal with the presence of lead on this project.
4. Protective coat shall be applied to the entire top surface of the bridge deck, the face and top of curb, and the face and top of sidewalk. Care shall be taken not to apply protective coat to the areas of concrete that will receive stain.
5. Concrete encasement at the piers may be placed underwater into permanent encasement. Concrete shall be tremied according to Article 503.08 of the Standard Specifications.
6. Staining concrete structures shall include the top and both sides of the concrete bridge rail, the outside face of the concrete curb, the outside face of the concrete sidewalk, the exterior face of both fascia beams, and the sides and top of all pilasters. See Special Provisions.

WATERWAY INFORMATION

Flood		Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
				Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
		10	10	177	173	504.3	0.0	0.0	504.3	504.3
Design		20	12	187	182	504.5	0.0	0.0	504.5	504.5
		50	13	190	186	504.5	0.0	0.0	504.5	504.5
Base		100	16	199	194	504.7	0.0	0.0	504.7	504.7
		200	17	202	197	504.7	0.0	0.0	504.7	504.7

Existing Overtopping Elev. 507.10 @ Sta. 103+35.56
 Proposed Overtopping Elev. 507.42 @ Sta. 103+30.95
 Drainage Area = 6.05 sq. mi.

10 Year Velocity through existing bridge = 0.06 ft/s
 10 Year Velocity through proposed bridge = 0.06 ft/s

DESIGN SCOUR ELEVATION TABLE

	Design Scour Elevations (ft.)				Item 113
	S. Abut.	Pier 1	Pier 2	N. Abut.	
Q100	502.25	499.17	499.17	506.59	8
Q200	502.25	499.17	499.17	506.59	
Design	502.25	499.17	499.17	506.59	
Check	502.25	499.17	499.17	506.59	

LOADING HL 93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications.

DESIGN STRESSES

FIELD UNITS

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

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi
 f'ci = 5,000 psi
 fpu = 270,000 psi (1/2" φ low lax strands)
 fpbt = 201,960 psi (1/2" φ low lax strands)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.099 g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.171 g
 Soil Site Class = D



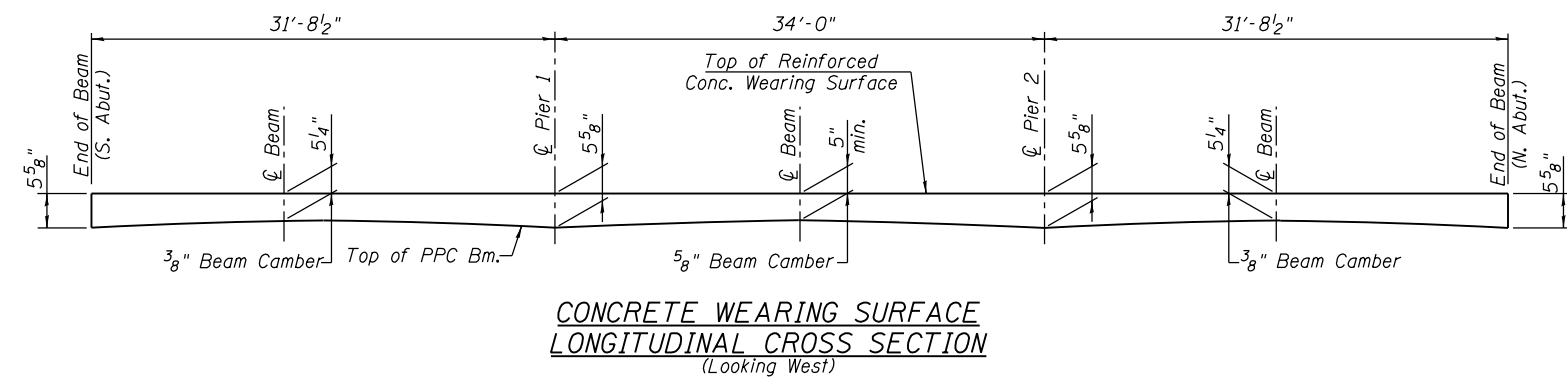
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CHECKED - MAH	REVISIONS -	
PLOT SCALE =	DRAWN - JRP	REVISED -
PLOT DATE =	CHECKED - KES	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL DATA
 STRUCTURE NO. 032-7099

SHEET NO. 2 OF 19 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	23
			CONTRACT NO. 46902	
ILLINOIS FED. AID PROJECT				



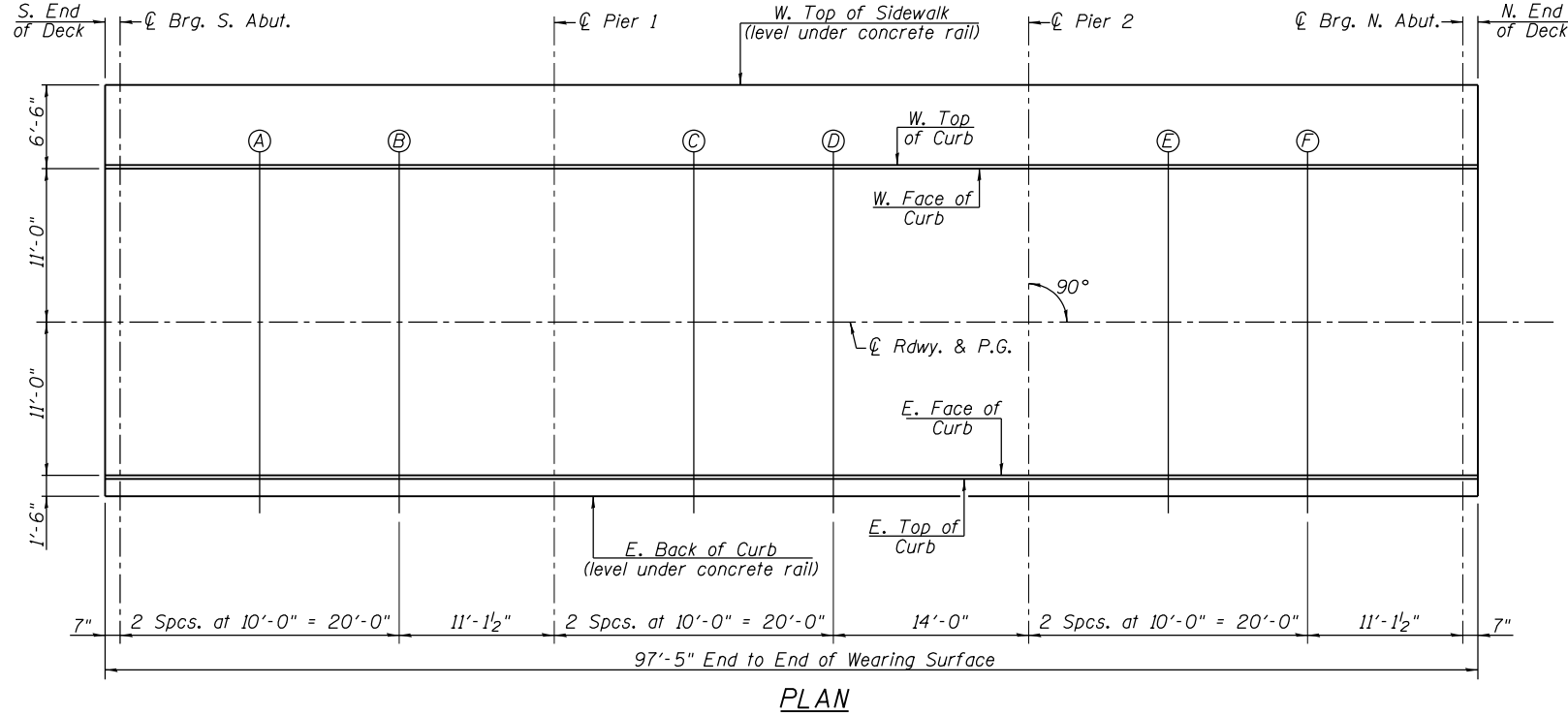
**CONCRETE WEARING SURFACE
LONGITUDINAL CROSS SECTION**
(Looking West)

WEST TOP OF SIDEWALK

Location	Station	Offset	Theoretical Grade Elevations
S. End of Deck	103+31.62	-18.50	508.26
☉ Brg. S. Abut.	103+32.20	-18.50	508.28
A	103+42.30	-18.50	508.68
B	103+52.30	-18.50	509.08
☉ Pier 1	103+63.32	-18.50	509.52
C	103+73.32	-18.50	509.92
D	103+83.32	-18.50	510.31
☉ Pier 2	103+97.32	-18.50	510.87
E	104+07.32	-18.50	511.27
F	104+17.32	-18.50	511.67
☉ Brg. N. Abut.	104+28.45	-18.50	512.11
N. End of Deck	104+29.03	-18.50	512.13

WEST TOP OF CURB

Location	Station	Offset	Theoretical Grade Elevations
S. End of Deck	103+31.62	-11.10	508.17
☉ Brg. S. Abut.	103+32.20	-11.10	508.19
A	103+42.30	-11.10	508.59
B	103+52.30	-11.10	508.99
☉ Pier 1	103+63.32	-11.10	509.43
C	103+73.32	-11.10	509.83
D	103+83.32	-11.10	510.22
☉ Pier 2	103+97.32	-11.10	510.78
E	104+07.32	-11.10	511.18
F	104+17.32	-11.10	511.58
☉ Brg. N. Abut.	104+28.45	-11.10	512.02
N. End of Deck	104+29.03	-11.10	512.04



PLAN

WEST FACE OF CURB

Location	Station	Offset	Theoretical Grade Elevations
S. End of Deck	103+31.62	-11.00	507.67
☉ Brg. S. Abut.	103+32.20	-11.00	507.69
A	103+42.30	-11.00	508.09
B	103+52.30	-11.00	508.49
☉ Pier 1	103+63.32	-11.00	508.93
C	103+73.32	-11.00	509.33
D	103+83.32	-11.00	509.72
☉ Pier 2	103+97.32	-11.00	510.28
E	104+07.32	-11.00	510.68
F	104+17.32	-11.00	511.08
☉ Brg. N. Abut.	104+28.45	-11.00	511.52
N. End of Deck	104+29.03	-11.00	511.54

☉ ROADWAY & P.G.

Location	Station	Offset	Theoretical Grade Elevations
S. End of Deck	103+31.62	0.00	507.84
☉ Brg. S. Abut.	103+32.20	0.00	507.86
A	103+42.30	0.00	508.26
B	103+52.30	0.00	508.66
☉ Pier 1	103+63.32	0.00	509.10
C	103+73.32	0.00	509.50
D	103+83.32	0.00	509.89
☉ Pier 2	103+97.32	0.00	510.45
E	104+07.32	0.00	510.85
F	104+17.32	0.00	511.25
☉ Brg. N. Abut.	104+28.45	0.00	511.69
N. End of Deck	104+29.03	0.00	511.71

EAST FACE OF CURB

Location	Station	Offset	Theoretical Grade Elevations
S. End of Deck	103+31.62	11.00	507.67
☉ Brg. S. Abut.	103+32.20	11.00	507.69
A	103+42.30	11.00	508.09
B	103+52.30	11.00	508.49
☉ Pier 1	103+63.32	11.00	508.93
C	103+73.32	11.00	509.33
D	103+83.32	11.00	509.72
☉ Pier 2	103+97.32	11.00	510.28
E	104+07.32	11.00	510.68
F	104+17.32	11.00	511.08
☉ Brg. N. Abut.	104+28.45	11.00	511.52
N. End of Deck	104+29.03	11.00	511.54

EAST TOP OF CURB

Location	Station	Offset	Theoretical Grade Elevations
S. End of Deck	103+31.62	11.10	508.34
☉ Brg. S. Abut.	103+32.20	11.10	508.36
A	103+42.30	11.10	508.76
B	103+52.30	11.10	509.16
☉ Pier 1	103+63.32	11.10	509.60
C	103+73.32	11.10	510.00
D	103+83.32	11.10	510.39
☉ Pier 2	103+97.32	11.10	510.95
E	104+07.32	11.10	511.35
F	104+17.32	11.10	511.75
☉ Brg. N. Abut.	104+28.45	11.10	512.19
N. End of Deck	104+29.03	11.10	512.21

EAST BACK OF CURB

Location	Station	Offset	Theoretical Grade Elevations
S. End of Deck	103+31.62	12.50	508.34
☉ Brg. S. Abut.	103+32.20	12.50	508.36
A	103+42.30	12.50	508.76
B	103+52.30	12.50	509.16
☉ Pier 1	103+63.32	12.50	509.60
C	103+73.32	12.50	510.00
D	103+83.32	12.50	510.39
☉ Pier 2	103+97.32	12.50	510.95
E	104+07.32	12.50	511.35
F	104+17.32	12.50	511.75
☉ Brg. N. Abut.	104+28.45	12.50	512.19
N. End of Deck	104+29.03	12.50	512.21



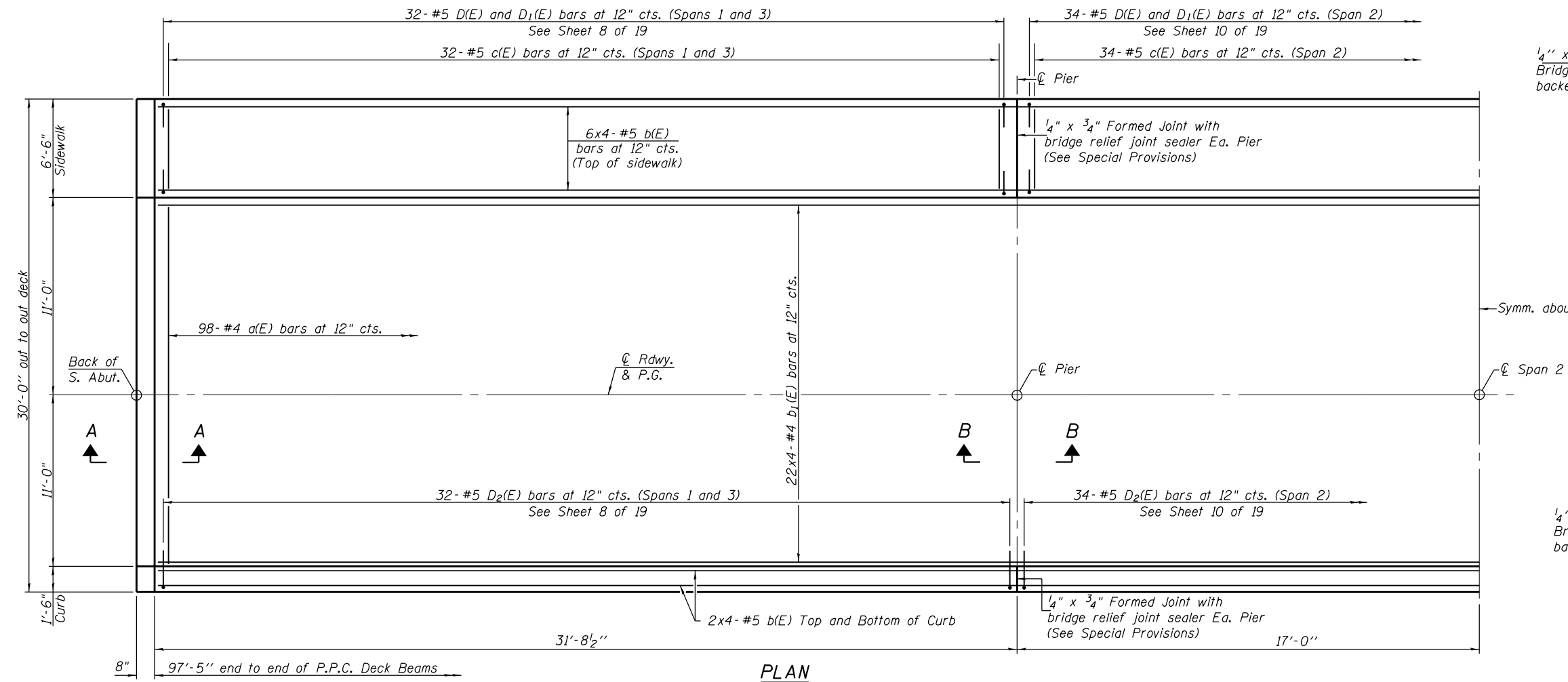
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CHECKED - MAH	REVISIONS -	
PLOT SCALE =	DRAWN - JRP	REVISED -
PLOT DATE =	CHECKED - KES	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

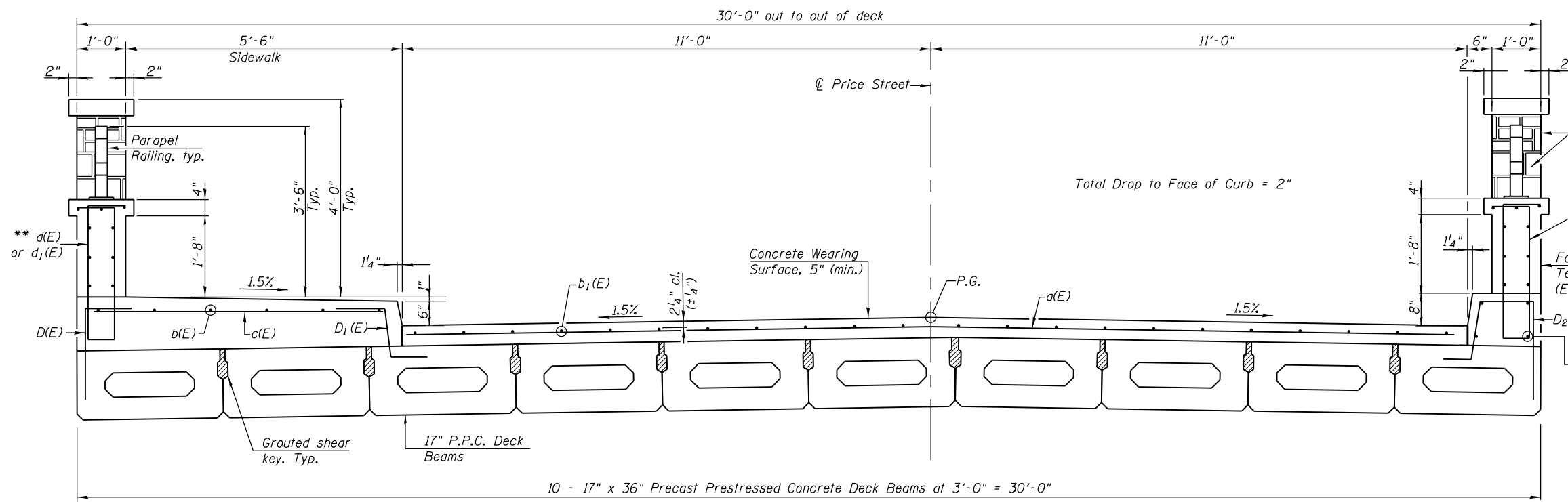
**WEARING SURFACE ELEVATIONS
STRUCTURE NO. 032-7099**

SHEET NO. 3 OF 19 SHEETS

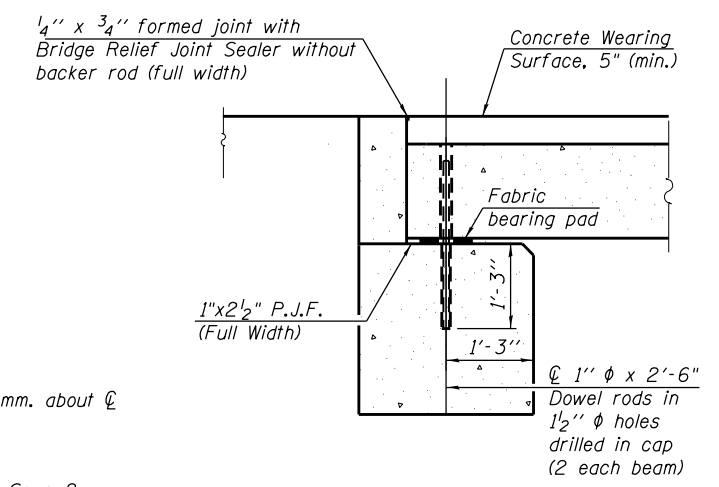
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	24
CONTRACT NO. 46902				
ILLINOIS FED. AID PROJECT				



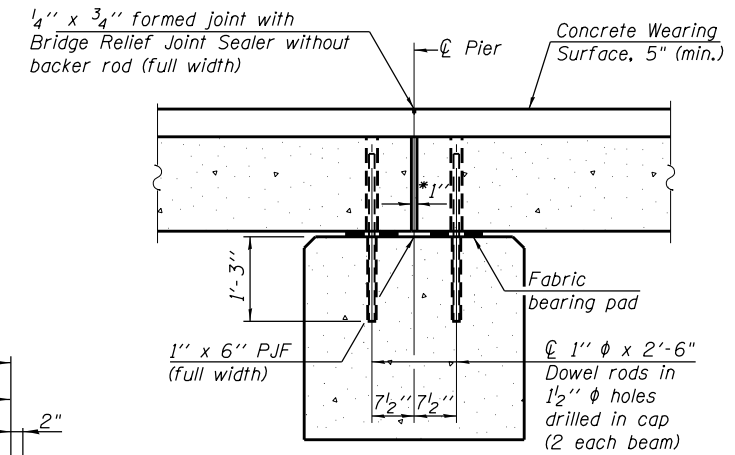
PLAN



CROSS SECTION
(Looking North)



SECTION A-A
See sheet 8 of 19 for fabric bearing pad details.



SECTION B-B
*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

MIN. BAR LAP
#4 bar - 2'-7"
#5 bar - 3'-2"

Notes:
See sheet 5 of 19 for Superstructure Details and Bill of Material.

** See sheet 6 of 19 for d(E) and d1(E) bar spacing



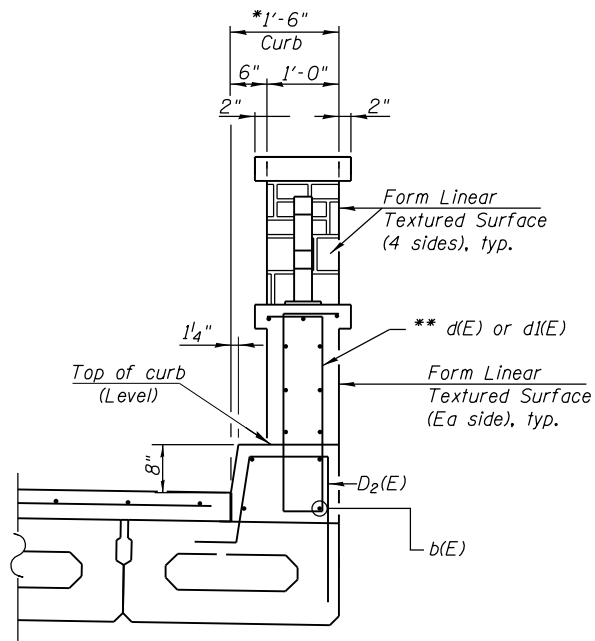
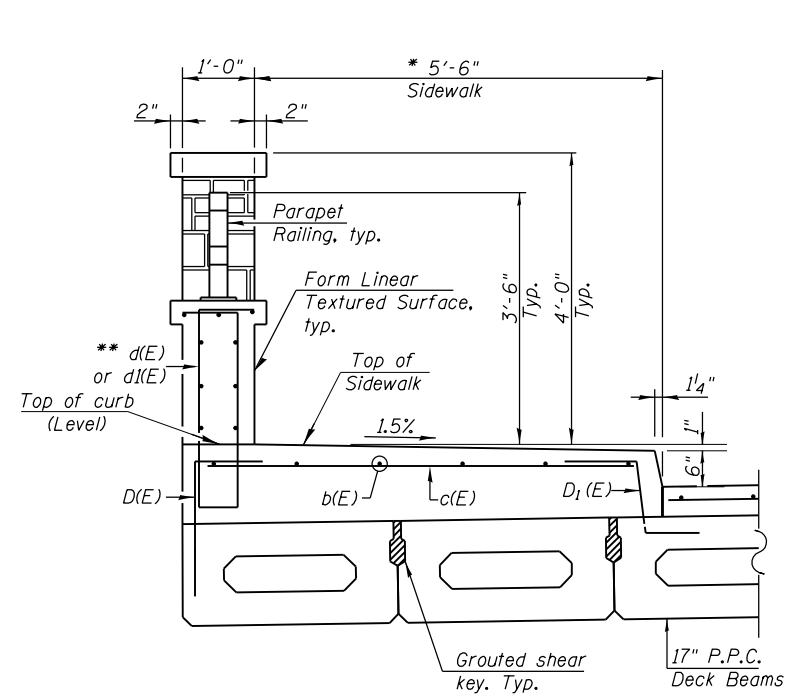
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PLOT SCALE =	CHECKED - MAH	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - KES	REVISED -

STATE OF ILLINOIS
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SUPERSTRUCTURE
STRUCTURE NO. 032-7099

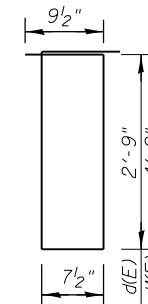
SHEET NO. 4 OF 19 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	25
			CONTRACT NO. 46902	
ILLINOIS FED. AID PROJECT				



MINIMUM BAR LAP

- #4 bar - 2'-7"
- #5 bar - 3'-2"



BAR d(E) & d1(E)

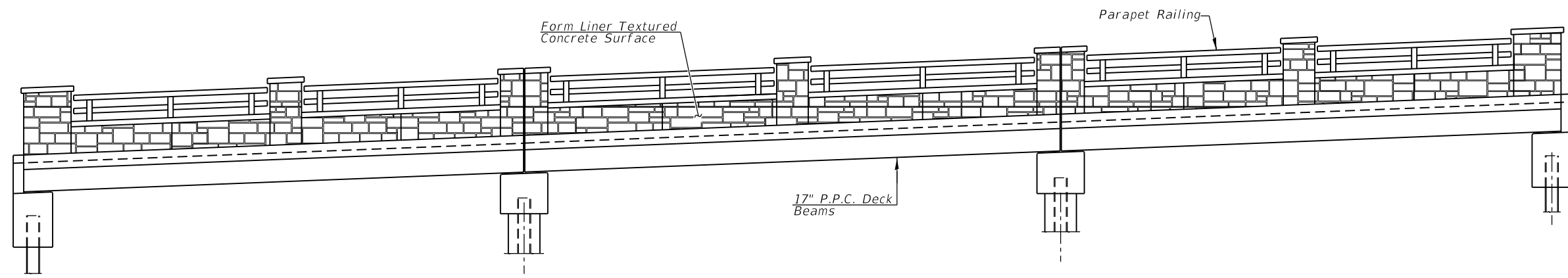
SECTION THRU SIDEWALK & CURB

- * Cost of concrete sidewalk and concrete curb is included in Concrete Superstructure.
- ** d(E) and d1(E) bars are included in Superstructure Bill of Material. See sheet 6 of 19 for spacing.

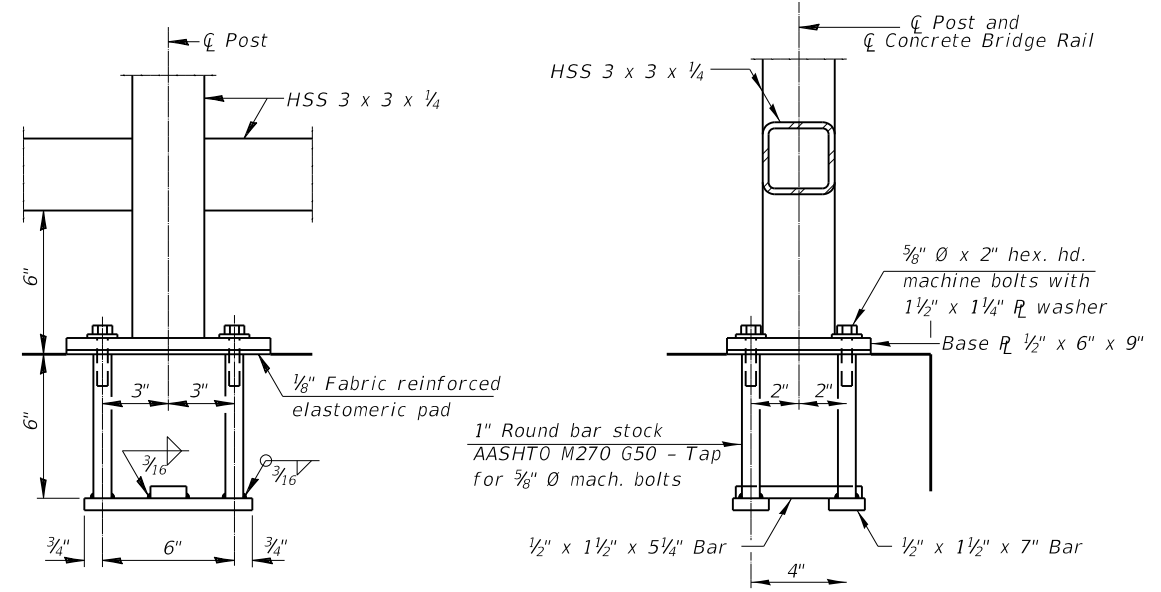
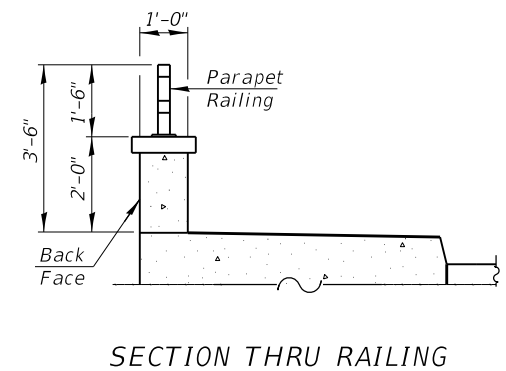
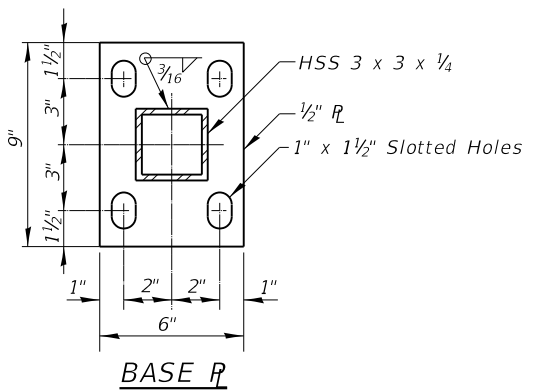
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	98	#4	21'-8"	—
b(E)	40	#5	26'-10"	—
b1(E)	88	#4	26'-4"	—
c(E)	98	#5	6'-1"	—
d(E)	164	#5	7'-9"	□
d1(E)	62	#5	11'-9"	□
Reinforcement Bars, Epoxy Coated			Pound	6800
Concrete Superstructure			Cu. Yd.	31.0

Bars indicated thus 7 x 4-#5 etc. indicates 7 lines of bars with 4 lengths per line.

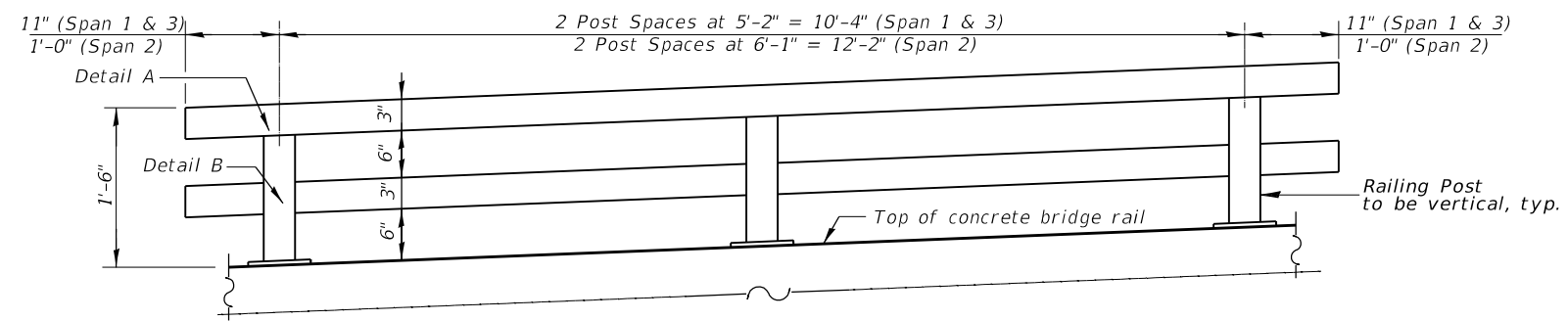


ELEVATION



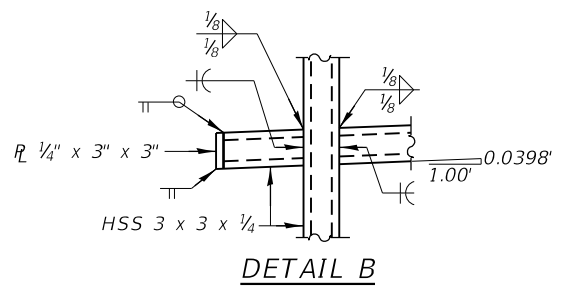
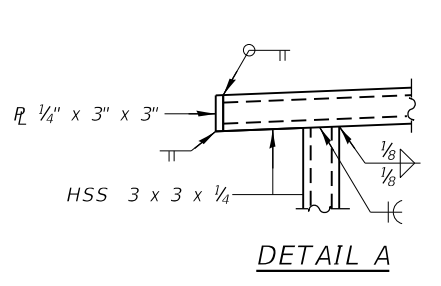
ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" Ø anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



PARAPET RAILING ELEVATION (Inside Face)

Notes:
 All structural steel tubing, post and railing, for parapet railing shall be CVN tested according to 1006.34(b) of the Standard Specifications.
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
 See Special Provisions for "Painting Steel Railing".



BILL OF MATERIAL

Item	Unit	Quantity
Painting Steel Railing	Foot	154
Parapet Railing	Foot	154



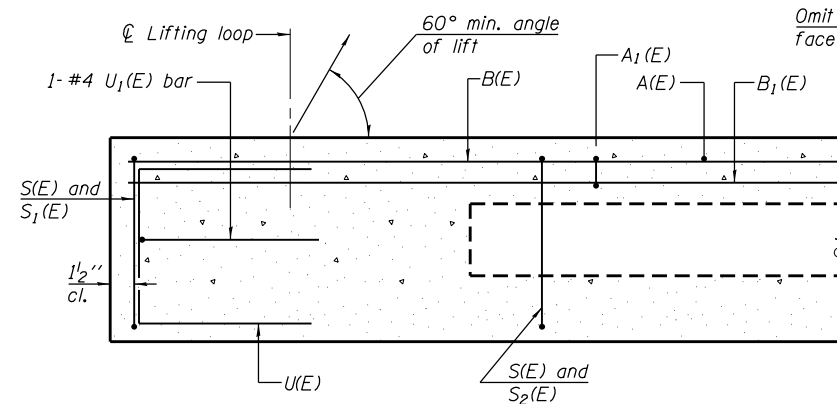
USER NAME =	DESIGNED - KES	REVISED -
PLOT SCALE =	CHECKED - MAH	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - KES	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

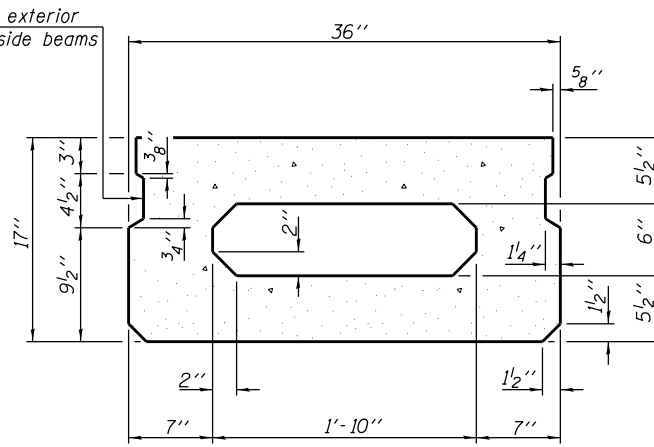
PARAPET RAILING
 STRUCTURE NO. 032-7099

SHEET NO. 7 OF 19 SHEETS

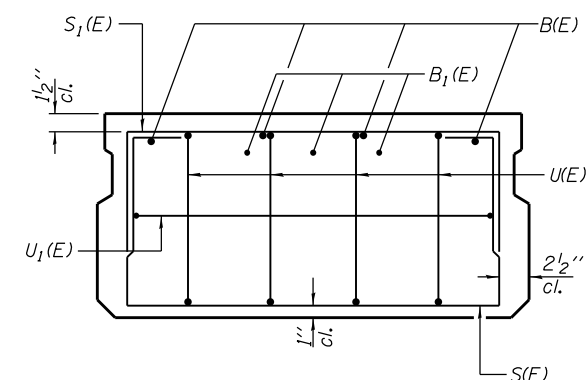
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	28
			CONTRACT NO. 49602	
ILLINOIS FED. AID PROJECT				



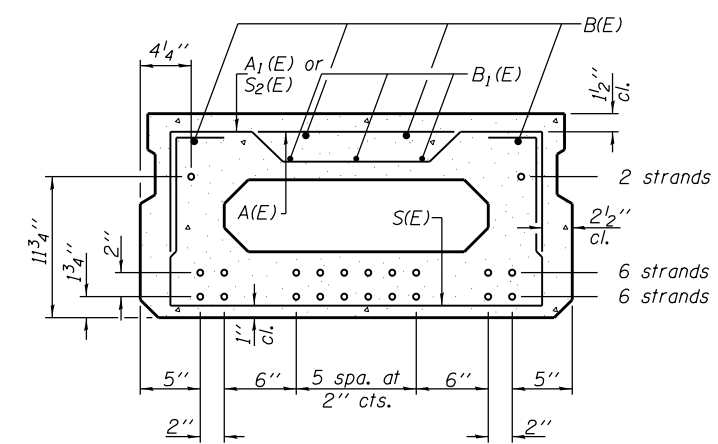
SECTION A-A



SECTION B-B
(Showing dimensions)



VIEW C-C



SECTION B-B

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

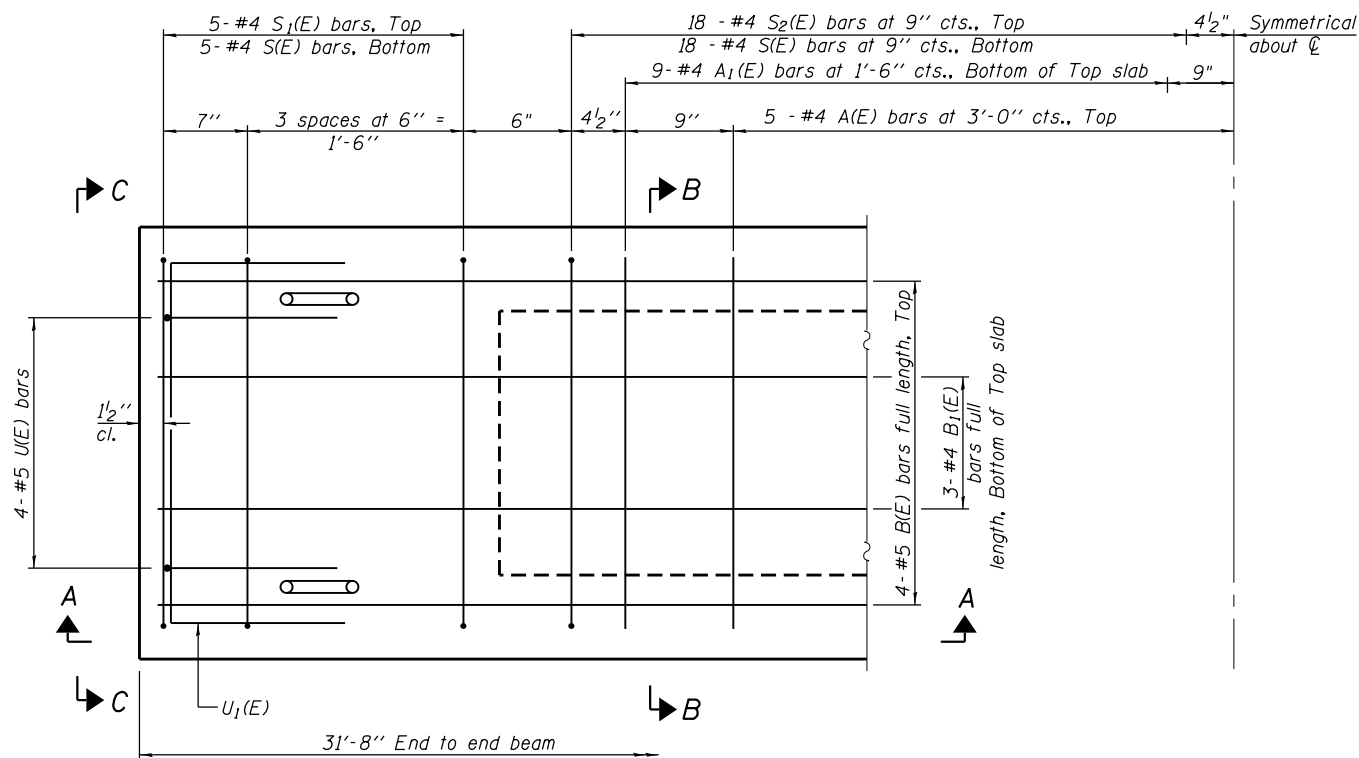
MINIMUM BAR LAP

#4 bar = 1'-11"
#5 bar = 2'-6"

BAR LIST
ONE BEAM ONLY

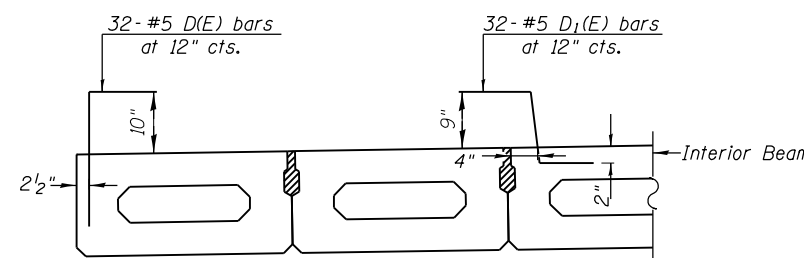
(For information only)

Bar	No.	Size	Length	Shape
A(E)	9	#4	2'-7"	—
A1(E)	18	#4	2'-10"	—
B(E)	4	#5	31'-5"	—
B1(E)	3	#4	31'-5"	—
S(E)	46	#4	5'-9"	□
S1(E)	10	#4	4'-3"	□
S2(E)	36	#4	4'-6"	□
U(E)	8	#5	3'-8"	□
U1(E)	2	#4	5'-0"	□

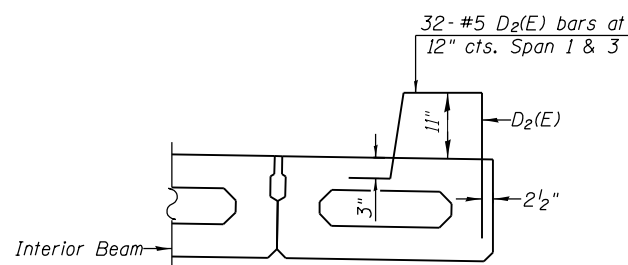


PLAN VIEW

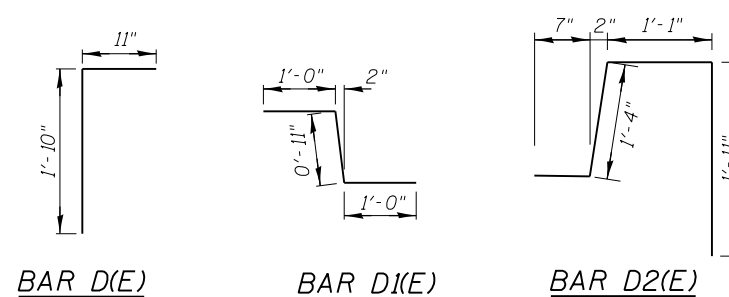
Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



SECTION THRU EXTERIOR BEAMS
UNDER SIDEWALK



SECTION THRU EXTERIOR BEAMS
UNDER CURB



ADDITIONAL BARS REQUIRED FOR
BEAMS UNDER SIDEWALK & CURB

(For information only)

Bar	No.	Size	Length	Shape
* D(E)	32	#5	2'-9"	□
* D1(E)	32	#5	2'-11"	□
** D2(E)	32	#5	4'-11"	□

Note: See sheet 9 of 19 for additional details and Bill of Material.

* Provide 32- #5 D(E) and D1(E) bars at 12" cts. at beams under sidewalk concrete

** Provide 32- #5 D2(E) bars at 12" cts. at beams under curb concrete

PD-1736-0

2-17-2017



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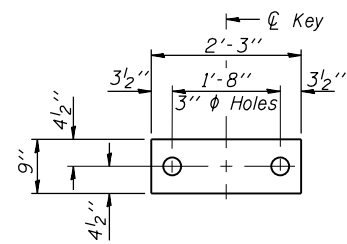
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

17" x 36" PPC DECK BEAM, SPANS 1 & 3
STRUCTURE NO. 032-7099

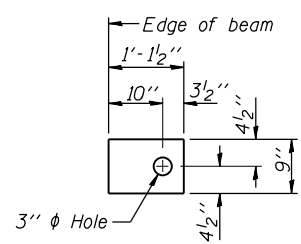
SHEET NO. 8 OF 19 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	29
			CONTRACT NO. 46902	

ILLINOIS FED. AID PROJECT



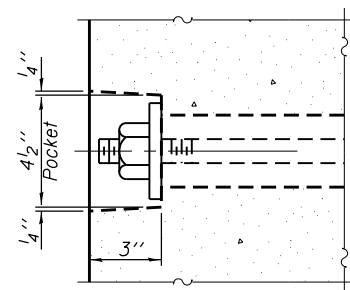
FABRIC BEARING PAD
(Interior)



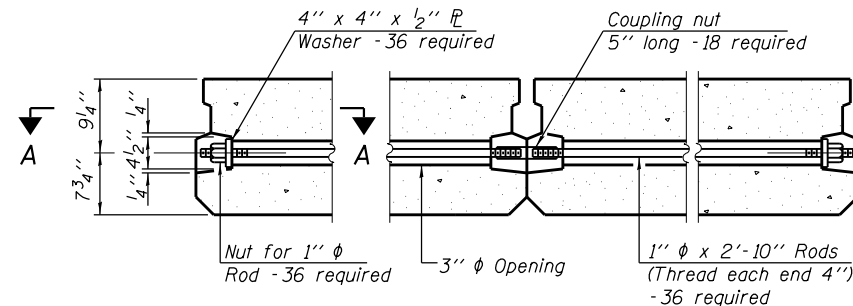
FABRIC BEARING PAD
(Exterior)

FIXED

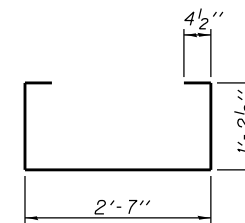
Notes:
All bearing pads shall be 1" thick.



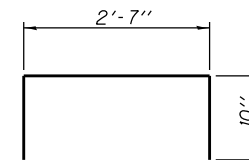
SECTION A-A



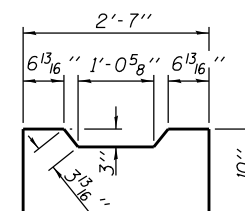
TYPICAL TRANSVERSE TIE ASSEMBLY



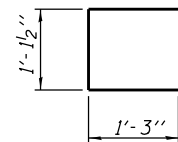
BAR S(E)



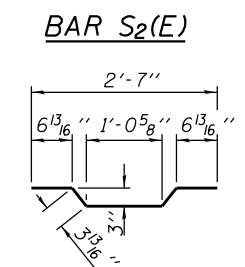
BAR S1(E)



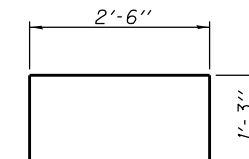
BAR S2(E)



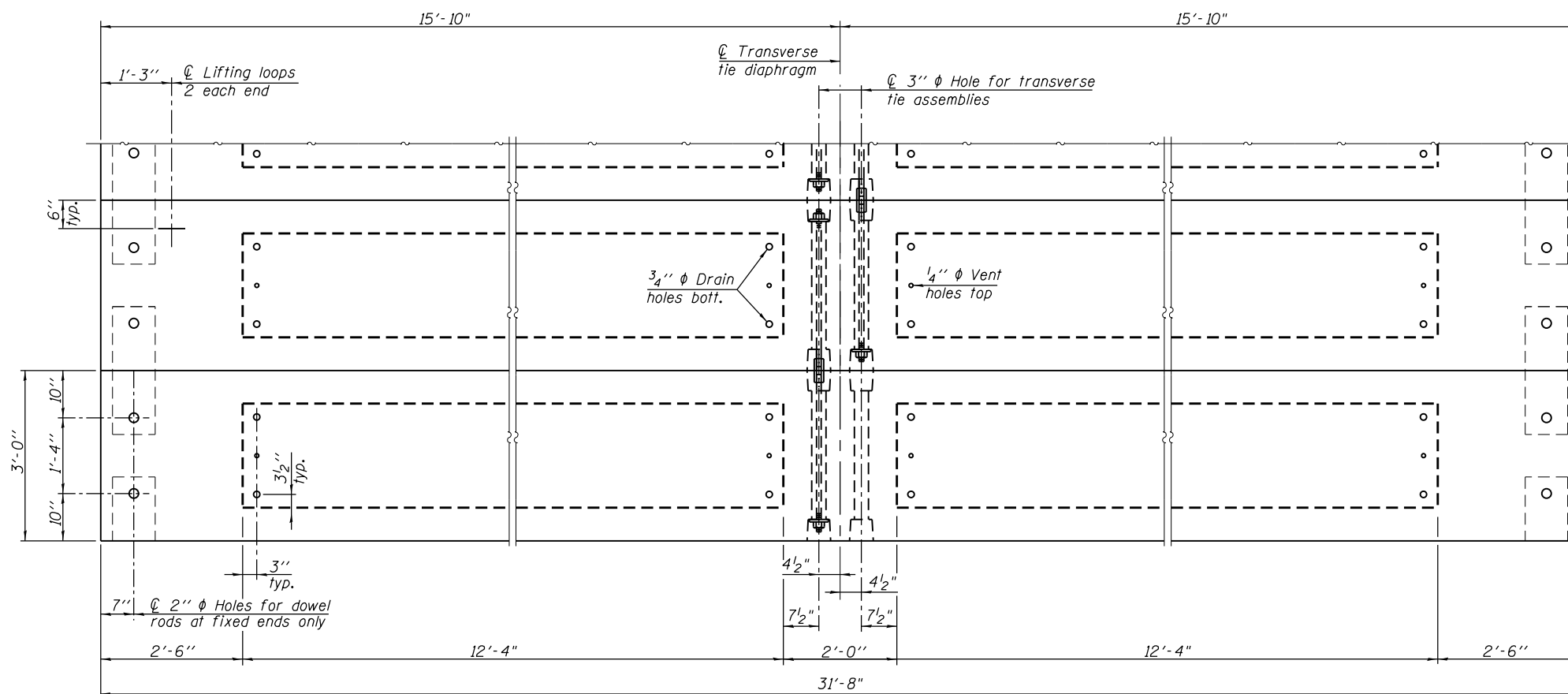
BAR U1(E)



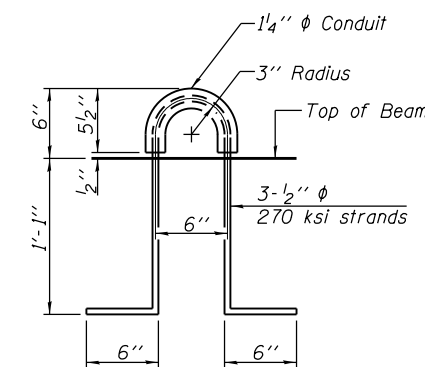
BAR A1(E)



BAR U2(E)



PLAN VIEW



LIFTING LOOP DETAIL

NOTES

Note: Connect beams in pairs with the transverse tie configuration shown.

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" diameter rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place. Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams. Compressive strength of prestressed concrete, f'c, shall be 6000 psi. Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	1900
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PD-1736-0D

2-17-2017



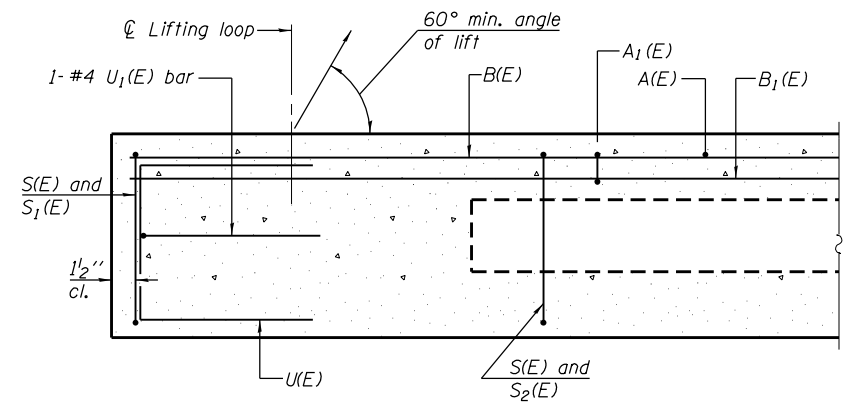
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PLOT SCALE =	CHECKED - MAH	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - KES	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

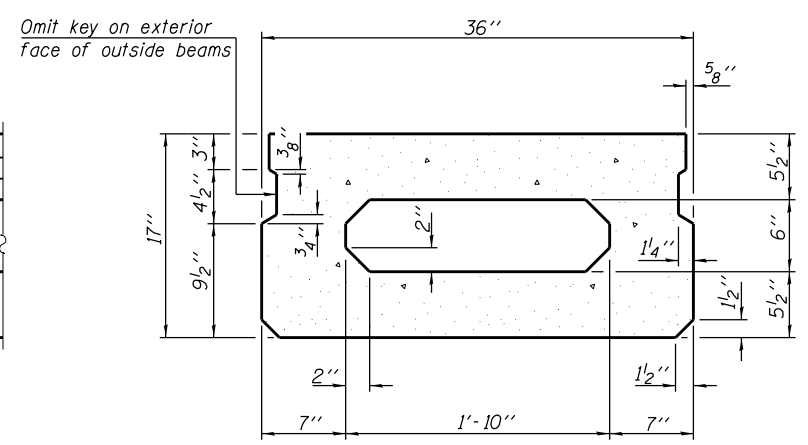
17" x 36" PPC DECK BEAM DETAILS - SPANS 1 & 3
STRUCTURE NO. 032-7099

SHEET NO. 9 OF 19 SHEETS

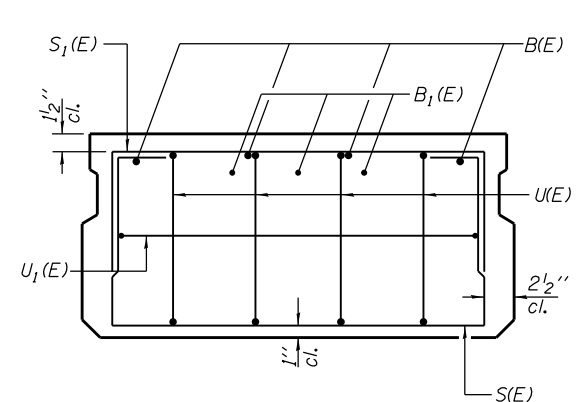
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	30
			CONTRACT NO. 46902	
ILLINOIS FED. AID PROJECT				



SECTION A-A



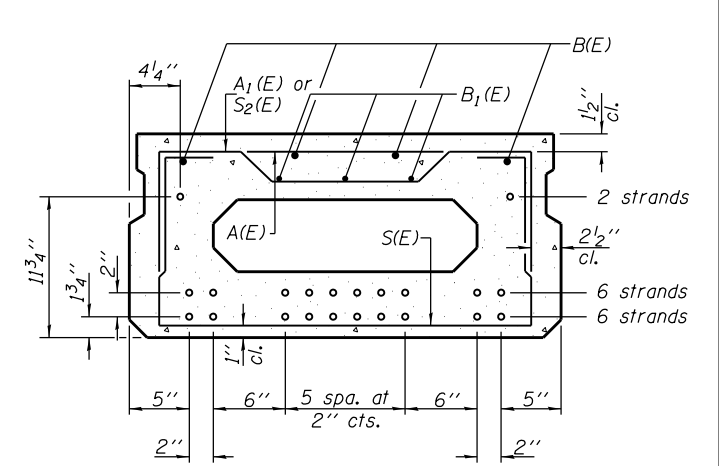
SECTION B-B
(Showing dimensions)



VIEW C-C

MINIMUM BAR LAP

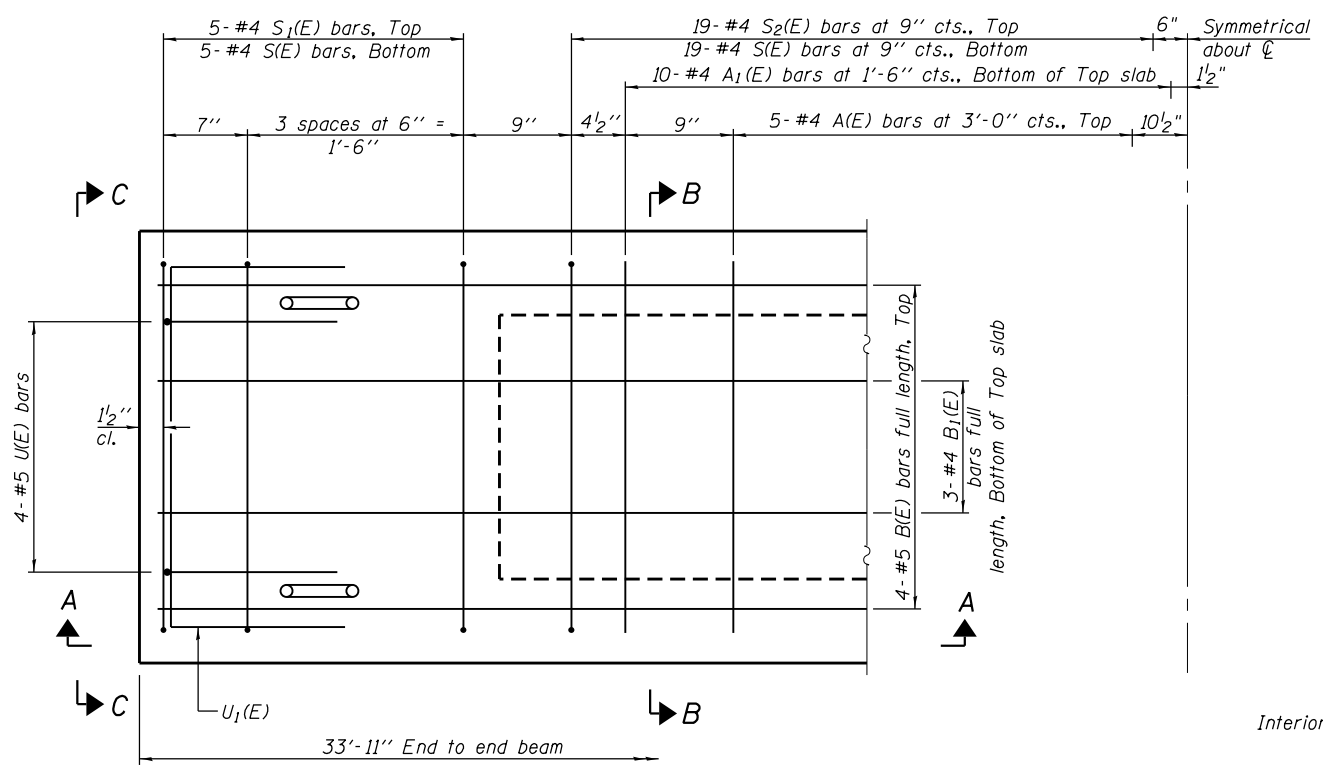
#4 bar = 1'-11"
#5 bar = 2'-6"



SECTION B-B

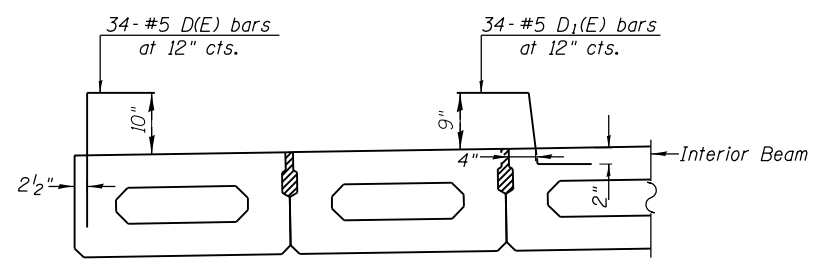
(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

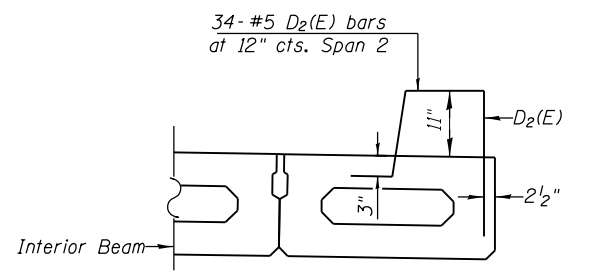


PLAN VIEW

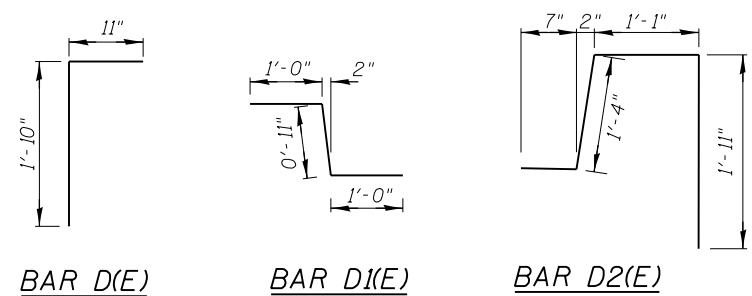
Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4 inches in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



SECTION THRU EXTERIOR BEAMS UNDER SIDEWALK



SECTION THRU EXTERIOR BEAMS UNDER CURB



BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	10	#4	2'-7"	—
A1(E)	20	#4	2'-10"	—
B(E)	4	#5	33'-8"	—
B1(E)	3	#4	33'-8"	—
S(E)	48	#4	5'-9"	□
S1(E)	10	#4	4'-3"	□
S2(E)	38	#4	4'-6"	□
U(E)	8	#5	3'-8"	□
U1(E)	2	#4	5'-0"	□

ADDITIONAL BARS REQUIRED FOR BEAMS UNDER SIDEWALK & CURB
(For information only)

Bar	No.	Size	Length	Shape
* D(E)	34	#5	2'-9"	□
* D1(E)	34	#5	2'-11"	□
** D2(E)	34	#5	4'-11"	□

Note: See sheet 11 of 19 for additional details and Bill of Material.

* Provide 34-#5 D(E) and D1(E) bars at 12 inches cts. at beams under sidewalk concrete

** Provide 34-#5 D2(E) bars at 12 inches cts. at beams under curb concrete



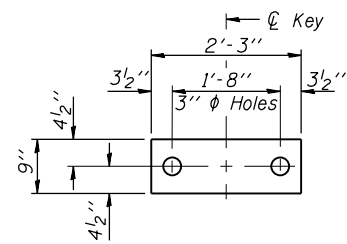
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PLOT SCALE =	CHECKED - MAH	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - KES	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

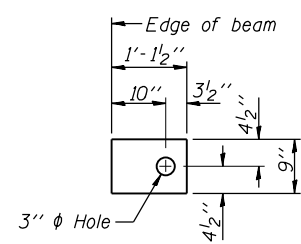
17" x 36" PPC DECK BEAM, SPAN 2
STRUCTURE NO. 032-7099

SHEET NO. 10 OF 19 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	31
			CONTRACT NO. 46902	
ILLINOIS FED. AID PROJECT				



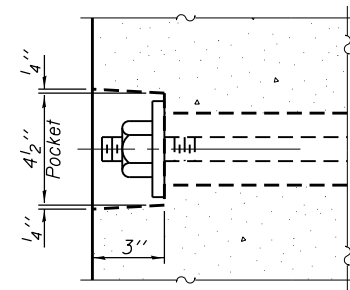
FABRIC BEARING PAD
(Interior)



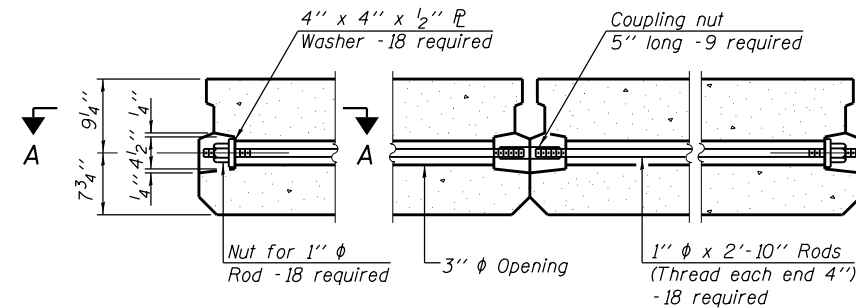
FABRIC BEARING PAD
(Exterior)

FIXED

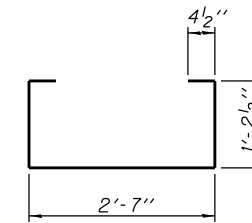
Notes:
All bearing pads shall be 1" thick.



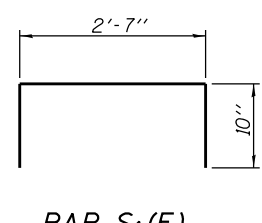
SECTION A-A



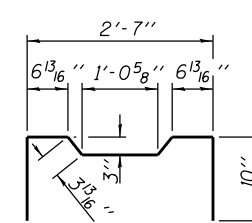
TYPICAL TRANSVERSE TIE ASSEMBLY



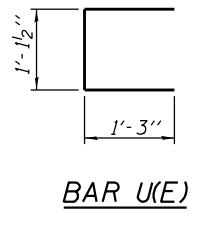
BAR S(E)



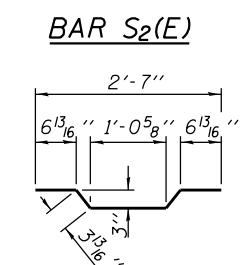
BAR S1(E)



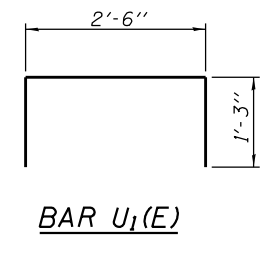
BAR S2(E)



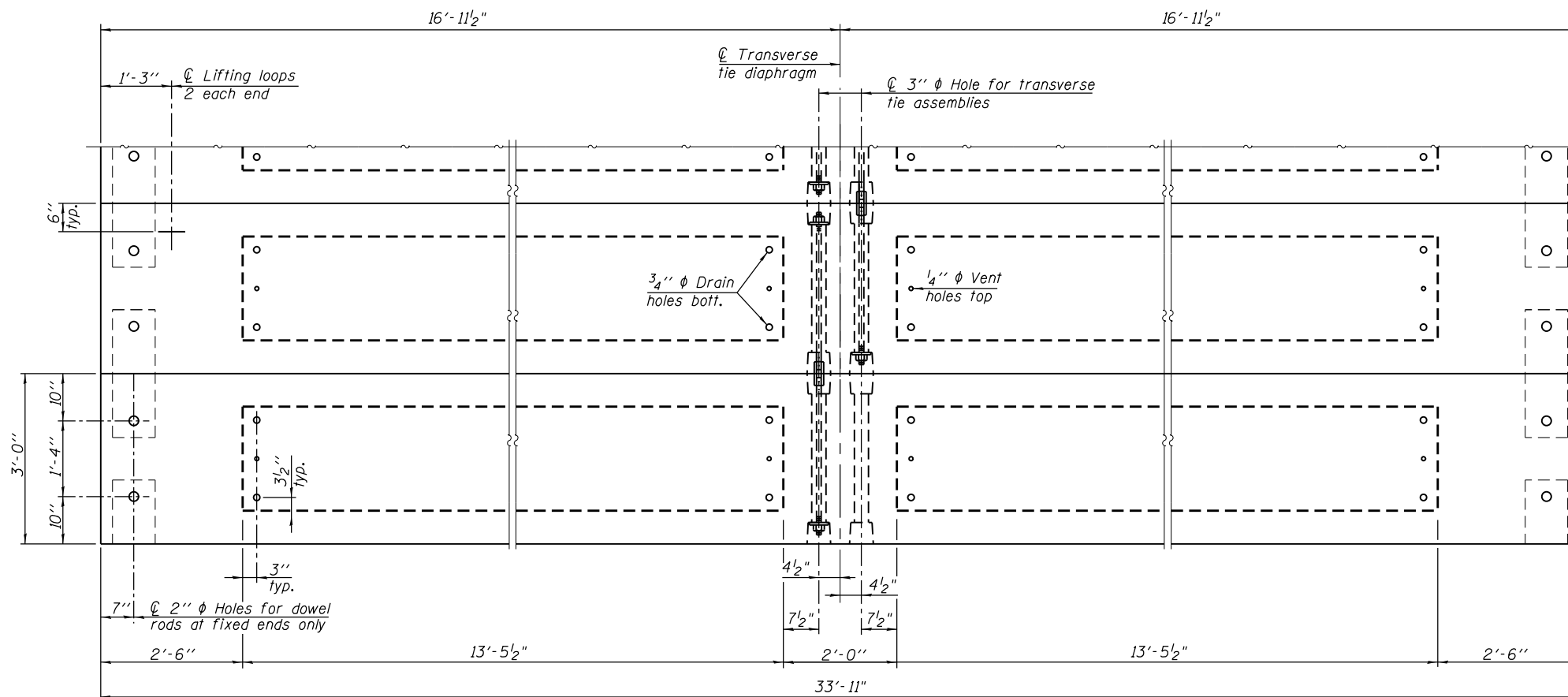
BAR U1(E)



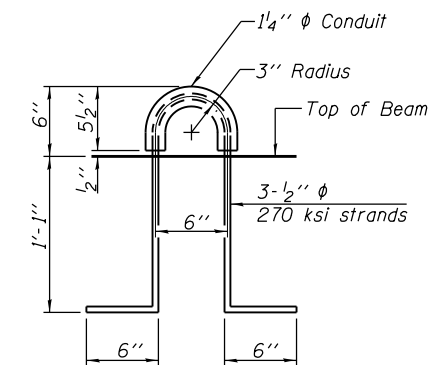
BAR A1(E)



BAR U2(E)



PLAN VIEW



LIFTING LOOP DETAIL

NOTES

Note: Connect beams in pairs with the transverse tie configuration shown.

- Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
- The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
- Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
- A minimum 2 1/2" ϕ lifting pin shall be used to engage the lifting loops during handling.
- Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
- Compressive strength of prestressed concrete, $f'c$, shall be 6000 psi.
- Compressive strength of prestressed concrete at release, $f'ci$, shall be 5000 psi.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	1018
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PD-1736-0D

2-17-2017



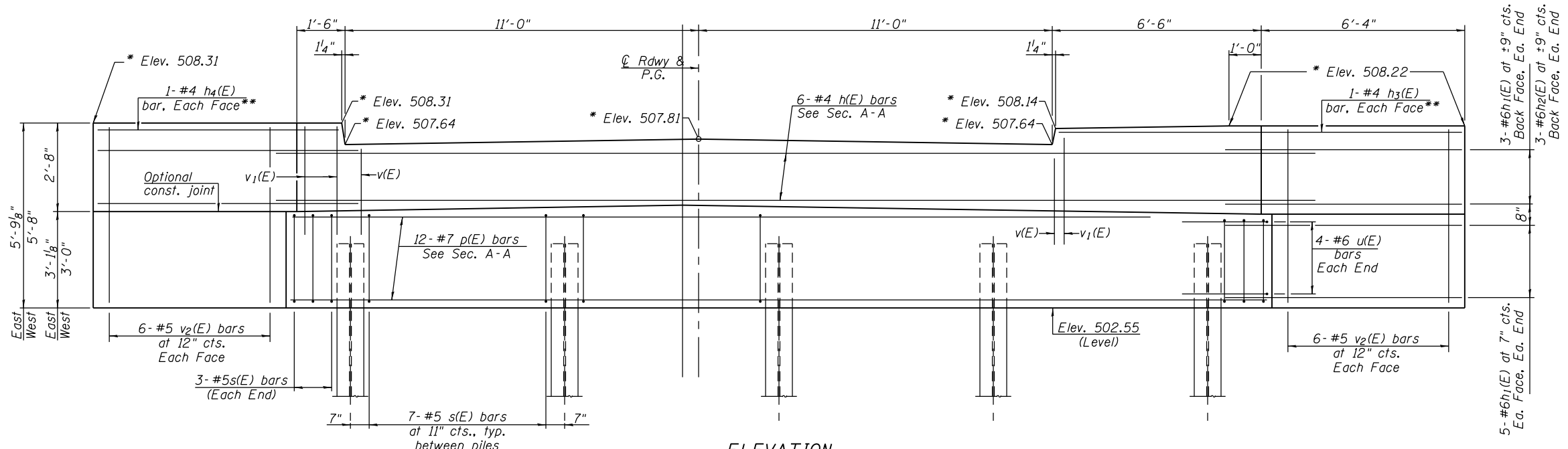
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PLOT SCALE =	CHECKED - MAH	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - KES	REVISED -

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17" x 36" PPC DECK BEAM DETAILS - SPAN 2
STRUCTURE NO. 032-7099

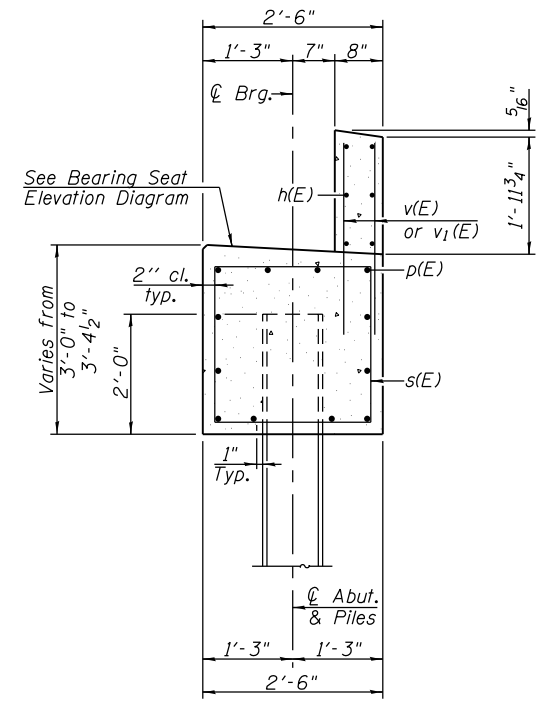
SHEET NO. 11 OF 19 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	32
			CONTRACT NO. 46902	
ILLINOIS FED. AID PROJECT				



ELEVATION
(Looking South)

* Elevation given at the back of abutment.
** Field cut bar in front face to fit.

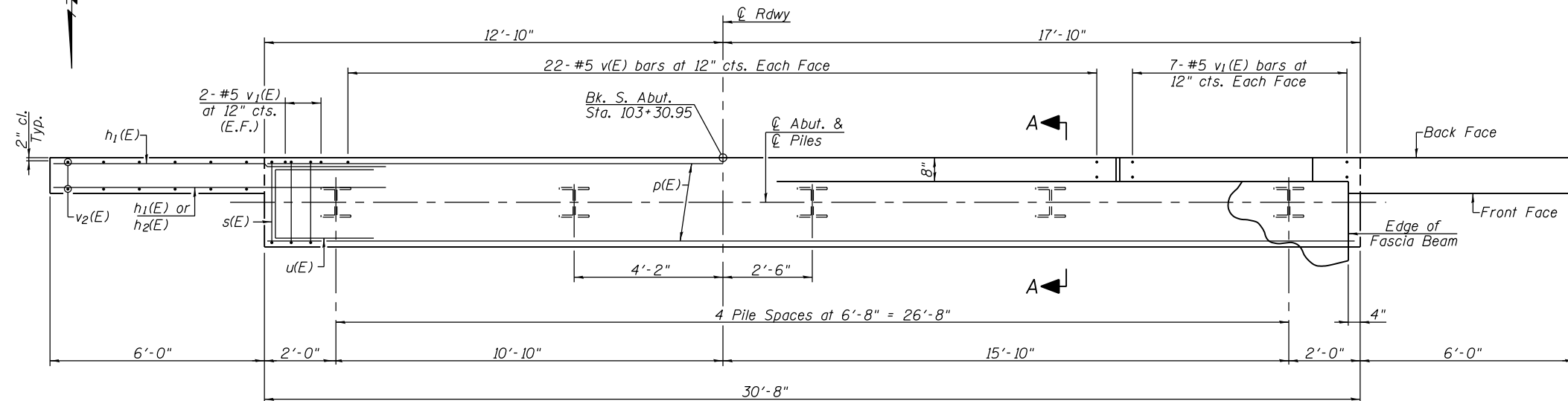


SECTION A-A

BILL OF MATERIAL

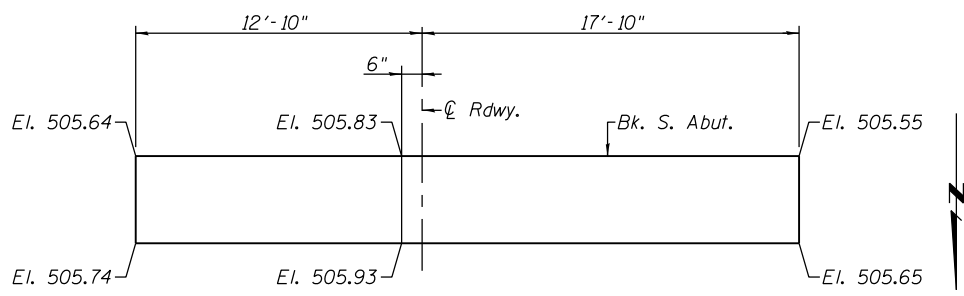
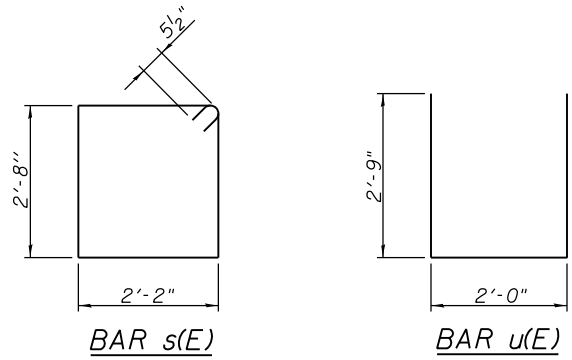
Bar	No.	Size	Length	Shape
h(E)	6	#4	33'-8"	—
h1(E)	26	#6	8'-9"	—
h2(E)	6	#6	6'-2"	—
h3(E)	2	#4	12'-5"	—
h4(E)	2	#4	7'-5"	—
p(E)	12	#7	30'-4"	—
s(E)	34	#5	10'-7"	□
u(E)	8	#6	7'-6"	U
v(E)	44	#5	3'-3"	—
v1(E)	18	#5	3'-9"	—
v2(E)	24	#5	5'-4"	—
Structure Excavation		Cu. Yd.	46	
Concrete Structures		Cu. Yd.	13.3	
Reinforcement Bars, Epoxy Coated		Pound	2120	
Furnishing Steel Piles, HP 12x53		Foot	240	
Driving Piles		Foot	240	

Notes:
For details of piles and Concrete Encasement, see sheet 16 of 19.
Cast backwall after beams have been erected.



PLAN

PILE DATA
Type: HP 12x53
Nominal Required Bearing: 418 kips
Factored Resistance Available: 230 kips
Est. Length: 48 ft.
No. Production Piles: 5



BEARING SEAT ELEVATION DIAGRAM



USER NAME =	DESIGNED - KES	REVISED -
PLOT SCALE =	CHECKED - MAH	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
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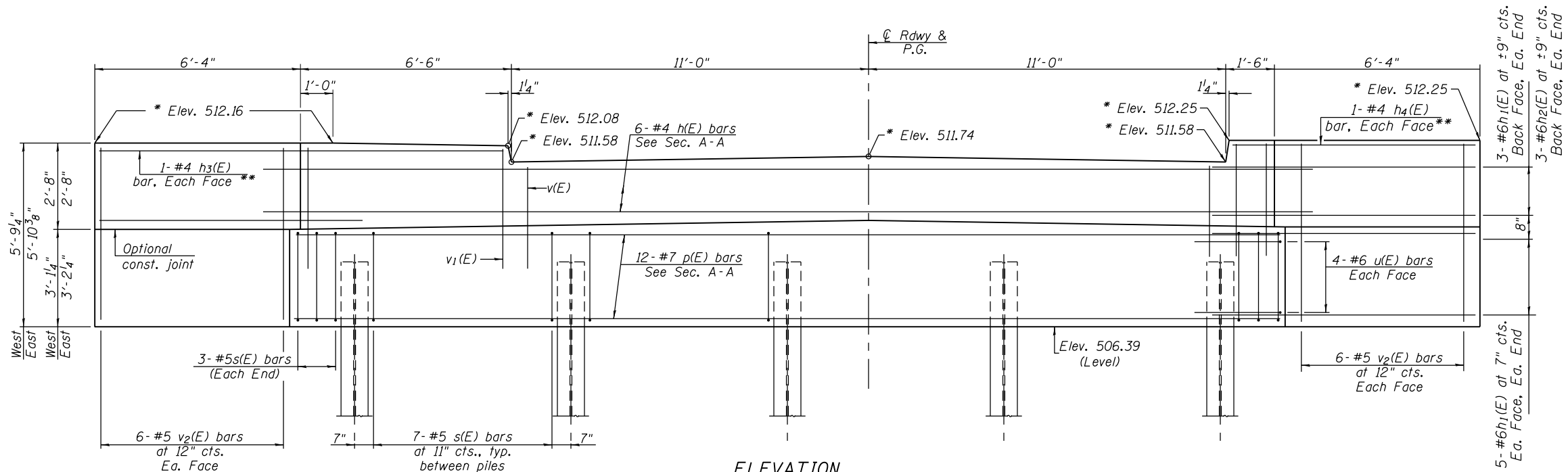
STATE OF ILLINOIS
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SOUTH ABUTMENT
STRUCTURE NO. 032-7099

SHEET NO. 12 OF 19 SHEETS

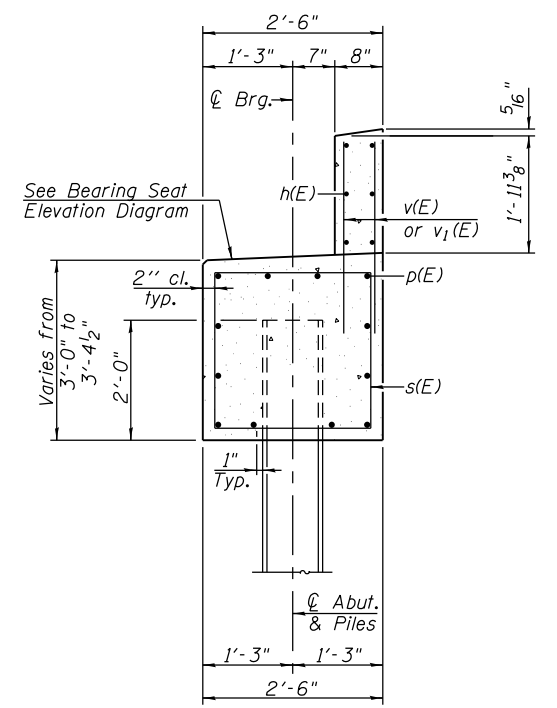
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	33
			CONTRACT NO. 46902	

ILLINOIS FED. AID PROJECT

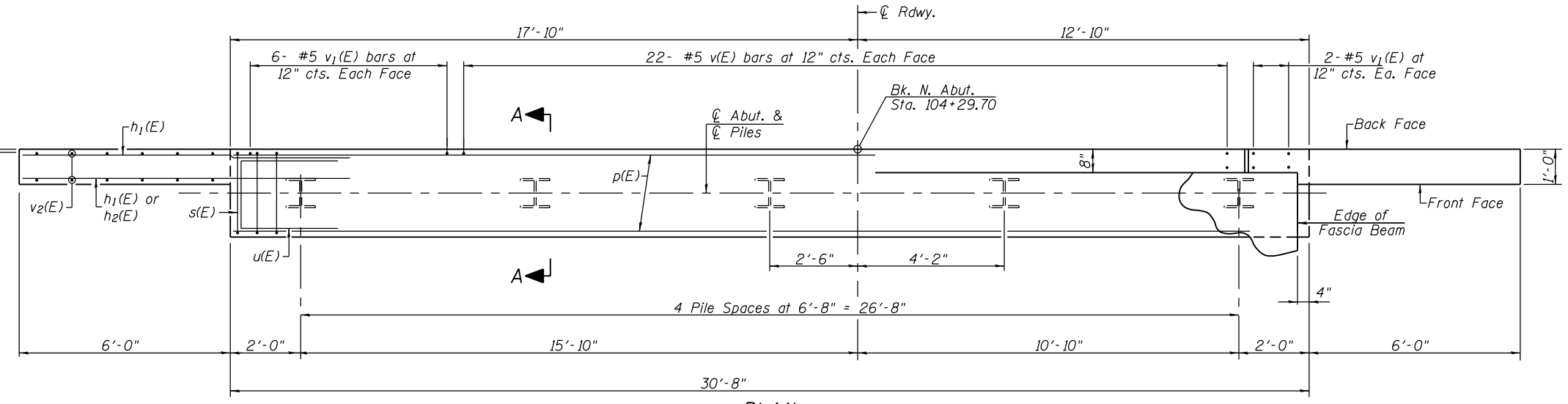


ELEVATION
(Looking North)

* Elevations given at the back of abutment.
** Field cut bar in front face to fit.

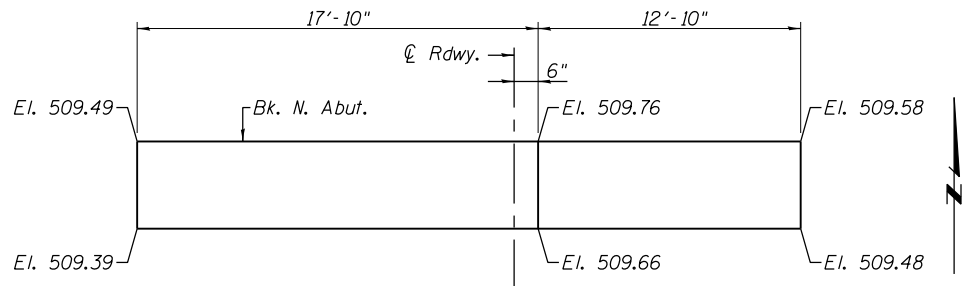
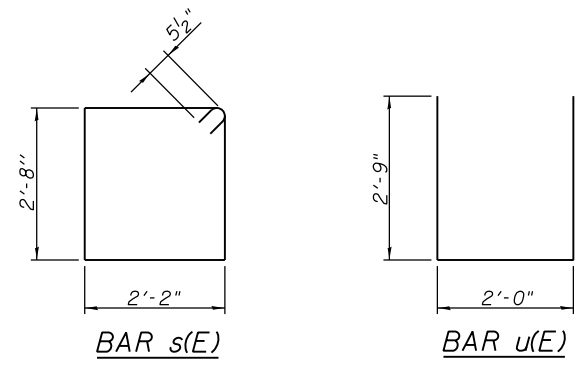


SECTION A-A



PLAN

PILE DATA
Type: HP 12x53
Nominal Required Bearing: 418 kips
Factored Resistance Available: 230 kips
Est. Length: 48 ft.
No. Production Piles: 5



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	6	#4	33'-8"	—
h1(E)	26	#6	8'-9"	—
h2(E)	6	#6	6'-2"	—
h3(E)	2	#4	12'-5"	—
h4(E)	2	#4	7'-5"	—
p(E)	12	#7	30'-4"	—
s(E)	34	#5	10'-7"	□
u(E)	8	#6	7'-6"	—
v(E)	44	#5	3'-3"	—
v1(E)	18	#5	3'-9"	—
v2(E)	24	#5	5'-4"	—
Structure Excavation		Cu. Yd.	56	
Concrete Structures		Cu. Yd.	13.3	
Reinforcement Bars, Epoxy Coated		Pound	2120	
Furnishing Steel Piles, HP 12x53		Foot	240	
Driving Piles		Foot	240	

Notes:
For details of piles and Concrete Encasement, see sheet 15 of 19.
Cast backwall after beams have been erected.



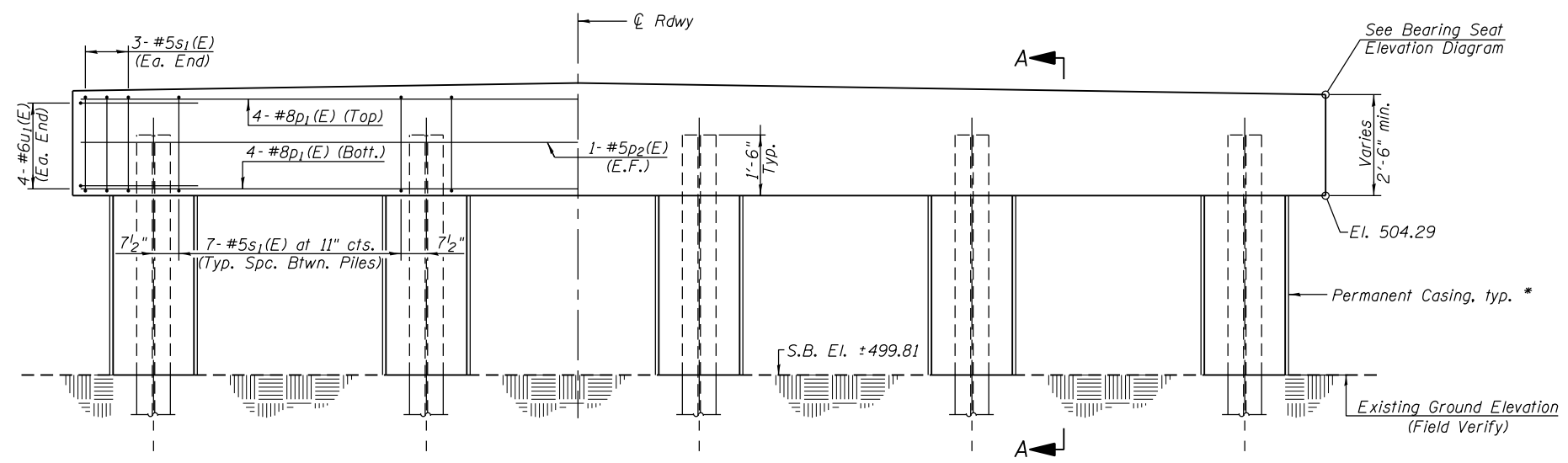
USER NAME =	DESIGNED - KES	REVISED -
PLOT SCALE =	CHECKED - MAH	REVISED -
PLOT DATE =	DRAWN - JRK	REVISED -
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STATE OF ILLINOIS
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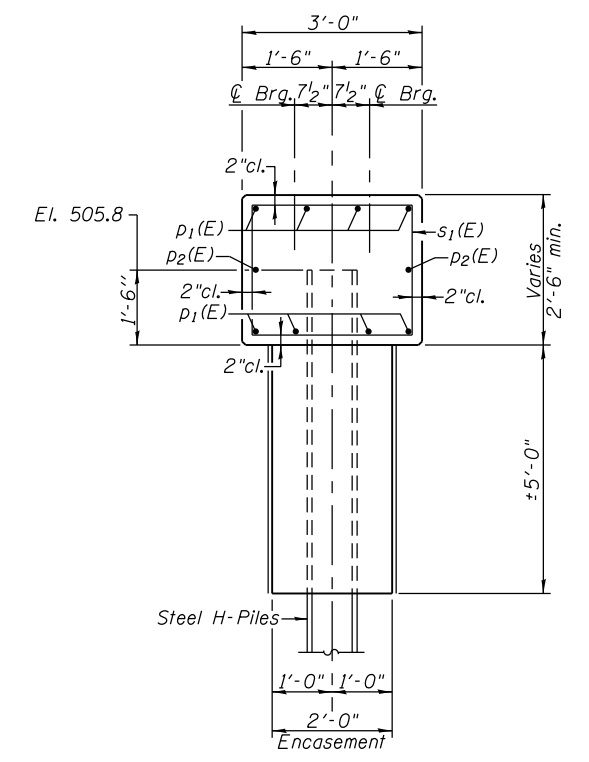
NORTH ABUTMENT
STRUCTURE NO. 032-7099

SHEET NO. 13 OF 19 SHEETS

F.A. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	34
			CONTRACT NO. 46902	
ILLINOIS FED. AID PROJECT				

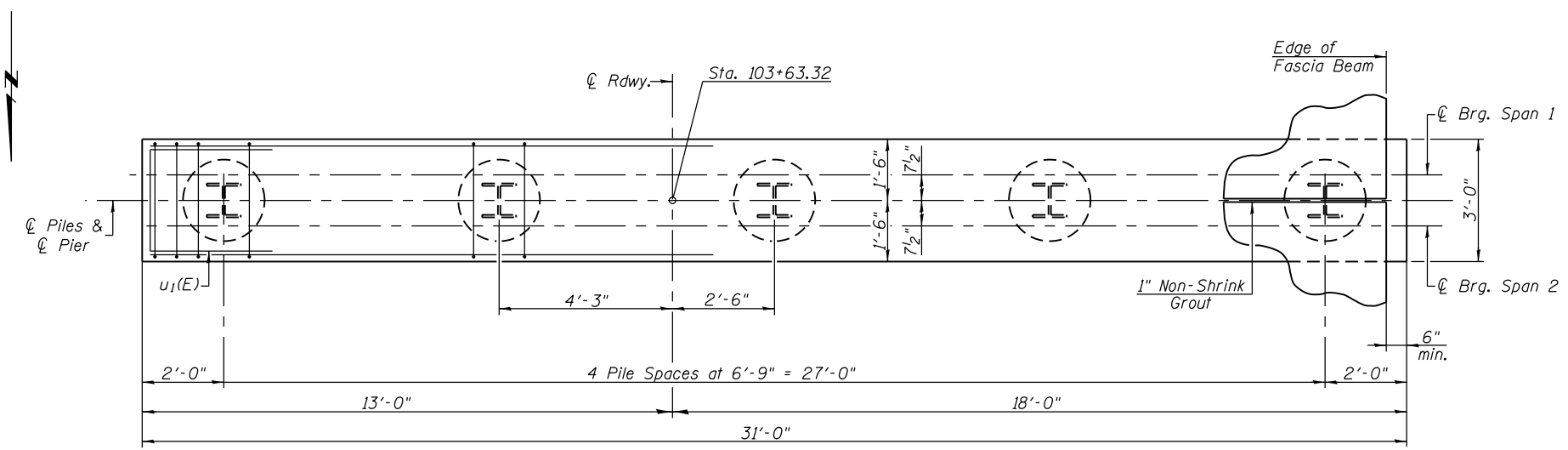


ELEVATION
(Looking South)



SECTION A-A

* The Contractor is responsible for determining the casing thickness and the actual tip elevation to be used. See Article 516.06(d) of the Standard Specifications. Pay limits for the permanent casing shall be based on the minimum length shown.



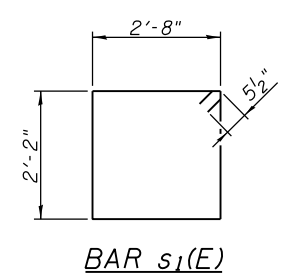
PLAN

PILE DATA

Type: HP 12x53
 Nominal Required Bearing: 418 kips
 Factored Resistance Available: 230 kips
 Est. Length: 49 ft.
 No. Production Piles: 5

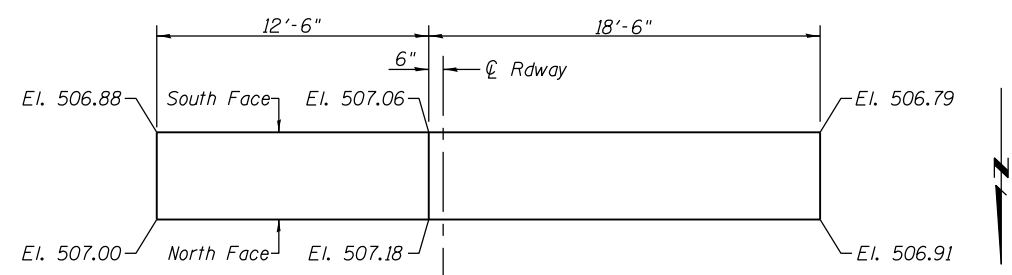
**PIER 1
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
p1(E)	8	#8	30'-8"	—
p2(E)	2	#5	30'-8"	—
s1(E)	34	#5	10'-7"	□
u1(E)	8	#6	10'-6"	□
Concrete Structures			Cu. Yd.	9.4
Reinforcement Bars, Epoxy Coated			Pound	1220
Furnishing Steel Piles, HP 12x53			Foot	245
Driving Piles			Foot	245
Concrete Encasement			Cu. Yd.	2.9
Permanent Casing			Foot	25



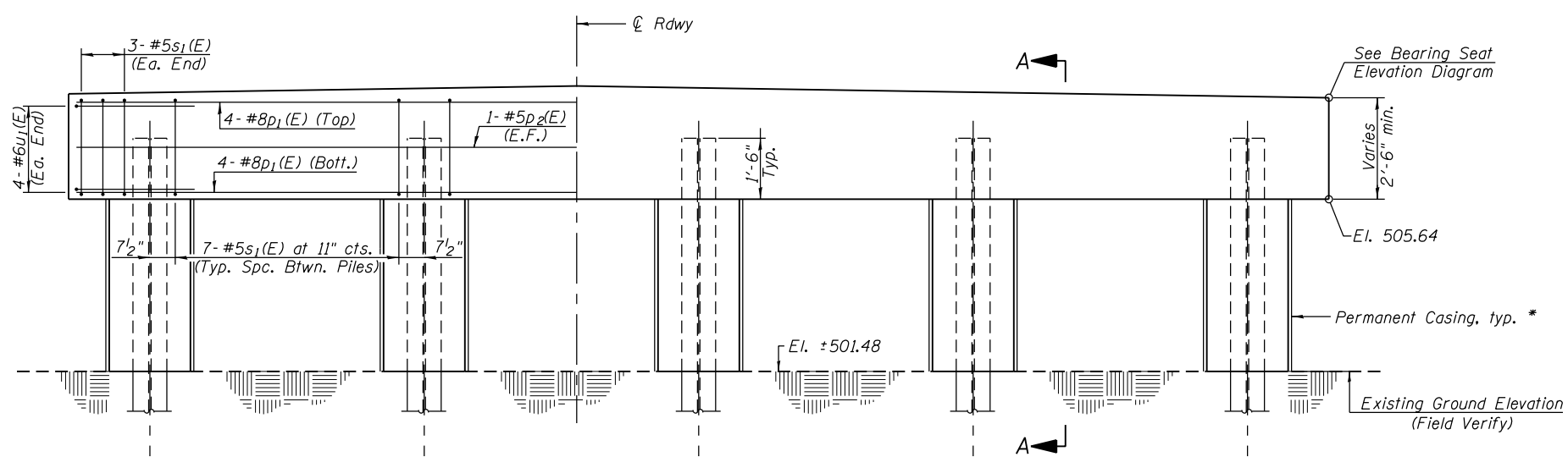
BAR s1(E)

BAR u1(E)

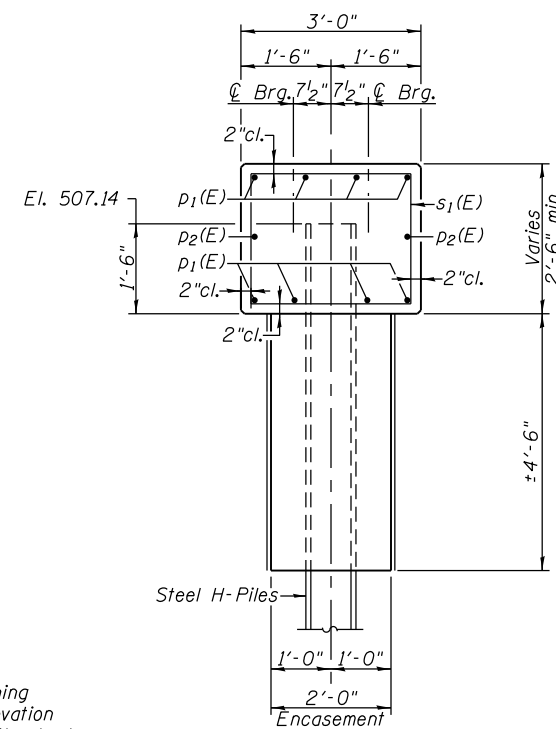


BEARING SEAT ELEVATION DIAGRAM

Notes:
 All exposed edges shall have standard 3/4 inch chamfer.
 Space reinforcement in cap to miss beam anchor dowels.
 For details of Piles and Concrete Encasement, see Sheet 15 of 19.

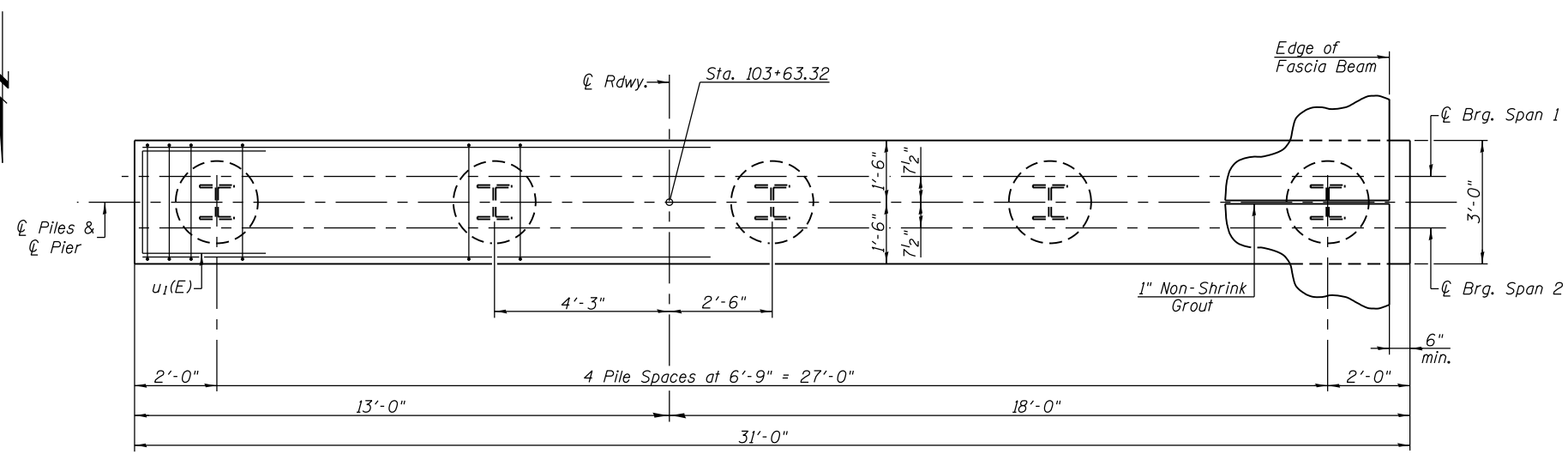


ELEVATION
(Looking South)



SECTION A-A

* The Contractor is responsible for determining the casing thickness and the actual tip elevation to be used. See Article 516.06(d) of the Standard Specifications. Pay limits for the permanent casing shall be based on the minimum length shown.



PLAN

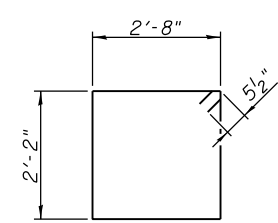
PILE DATA

Type: HP 12x53
 Nominal Required Bearing: 418 kips
 Factored Resistance Available: 230 kips
 Est. Length: 48 ft.
 No. Production Piles: 5

**PIER 2
BILL OF MATERIAL**

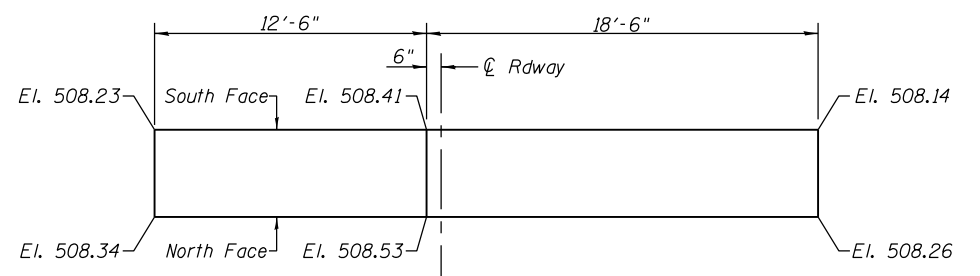
Bar	No.	Size	Length	Shape
p1(E)	8	#8	30'-8"	—
p2(E)	2	#5	30'-8"	—
s1(E)	34	#5	10'-7"	□
u1(E)	8	#6	10'-6"	□
Concrete Structures			Cu. Yd.	9.4
Reinforcement Bars, Epoxy Coated			Pound	1220
Furnishing Steel Piles, HP 12x53			Foot	240
Driving Piles			Foot	240
Concrete Encasement			Cu. Yd.	2.6
Permanent Casing			Foot	23

Notes:
 All exposed edges shall have standard 3/4" chamfer.
 Space reinforcement in cap to miss beam anchor dowels.
 For details of Piles and Concrete Encasement, see Sheet 15 of 19.



BAR s1(E)

BAR u1(E)



BEARING SEAT ELEVATION DIAGRAM



USER NAME =	DESIGNED - KES	REVISED -
PLOT SCALE =	CHECKED - MAH	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - KES	REVISED -

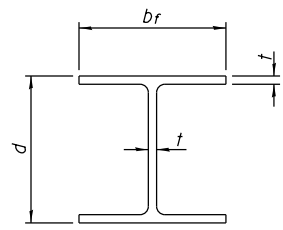
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 2
STRUCTURE NO. 032-7099**

SHEET NO. 15 OF 19 SHEETS

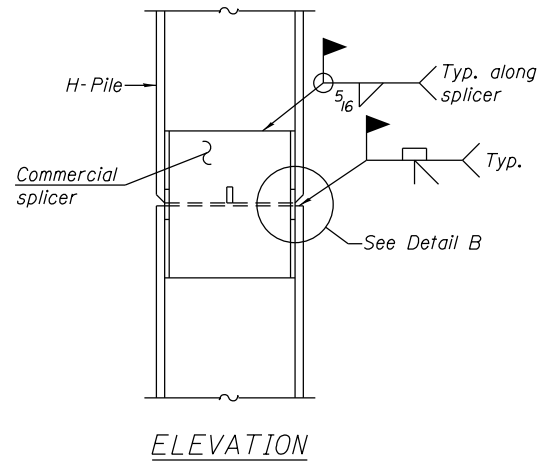
F.A. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	36
			CONTRACT NO. 46902	

ILLINOIS FED. AID PROJECT

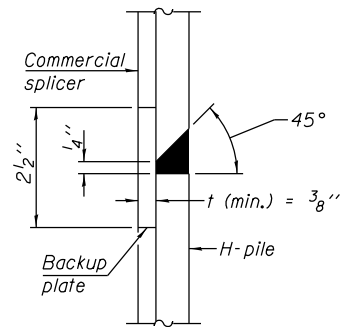


STEEL PILE TABLE

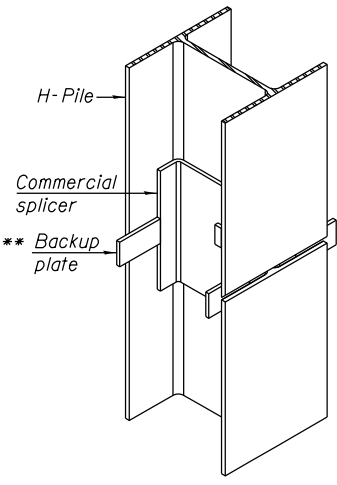
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53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

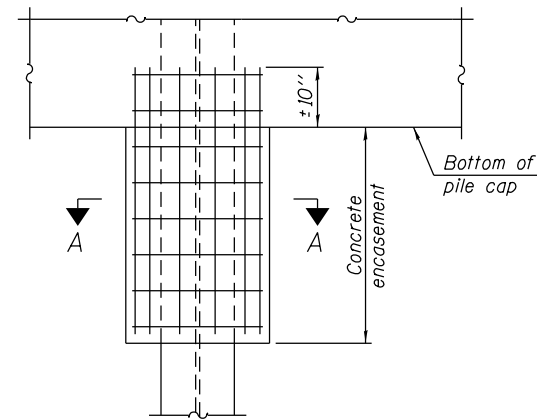


DETAIL "B"



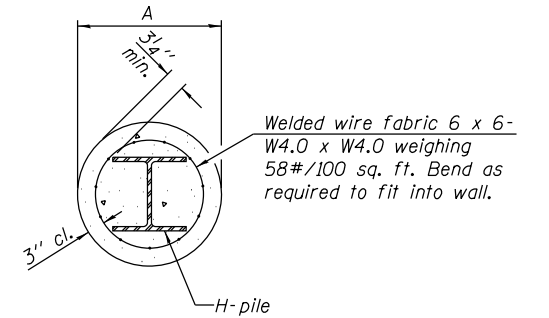
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



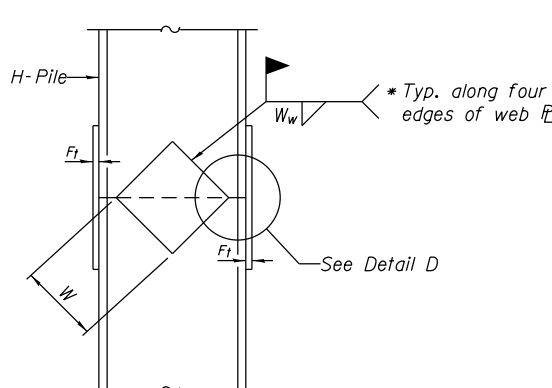
ELEVATION

PILE ENCASEMENT

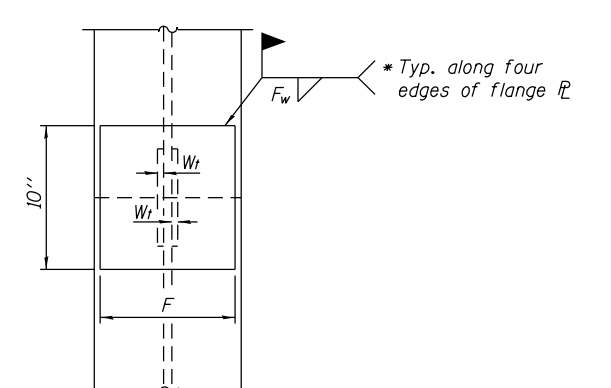


Note:
Forms for encasement may be omitted when soil conditions permit.

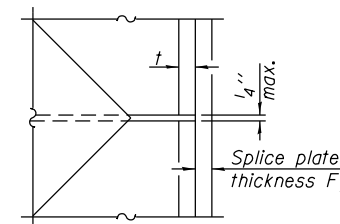
SECTION A-A



ELEVATION



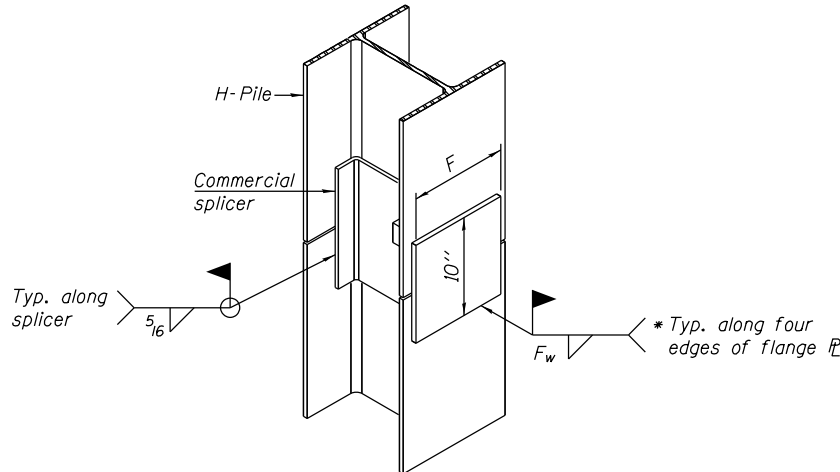
END VIEW



DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	F _t	F _w	W	W _t	W _w
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"	1/16"	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"	1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	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"

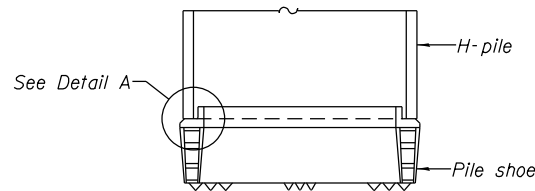


ISOMETRIC VIEW

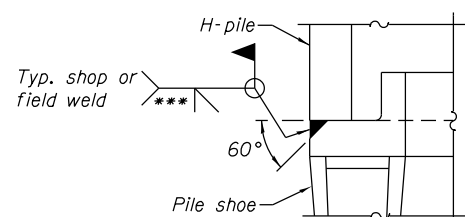
WELDED COMMERCIAL SPLICE ALTERNATE

- * 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.).

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



ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT

F-HP 1-27-12



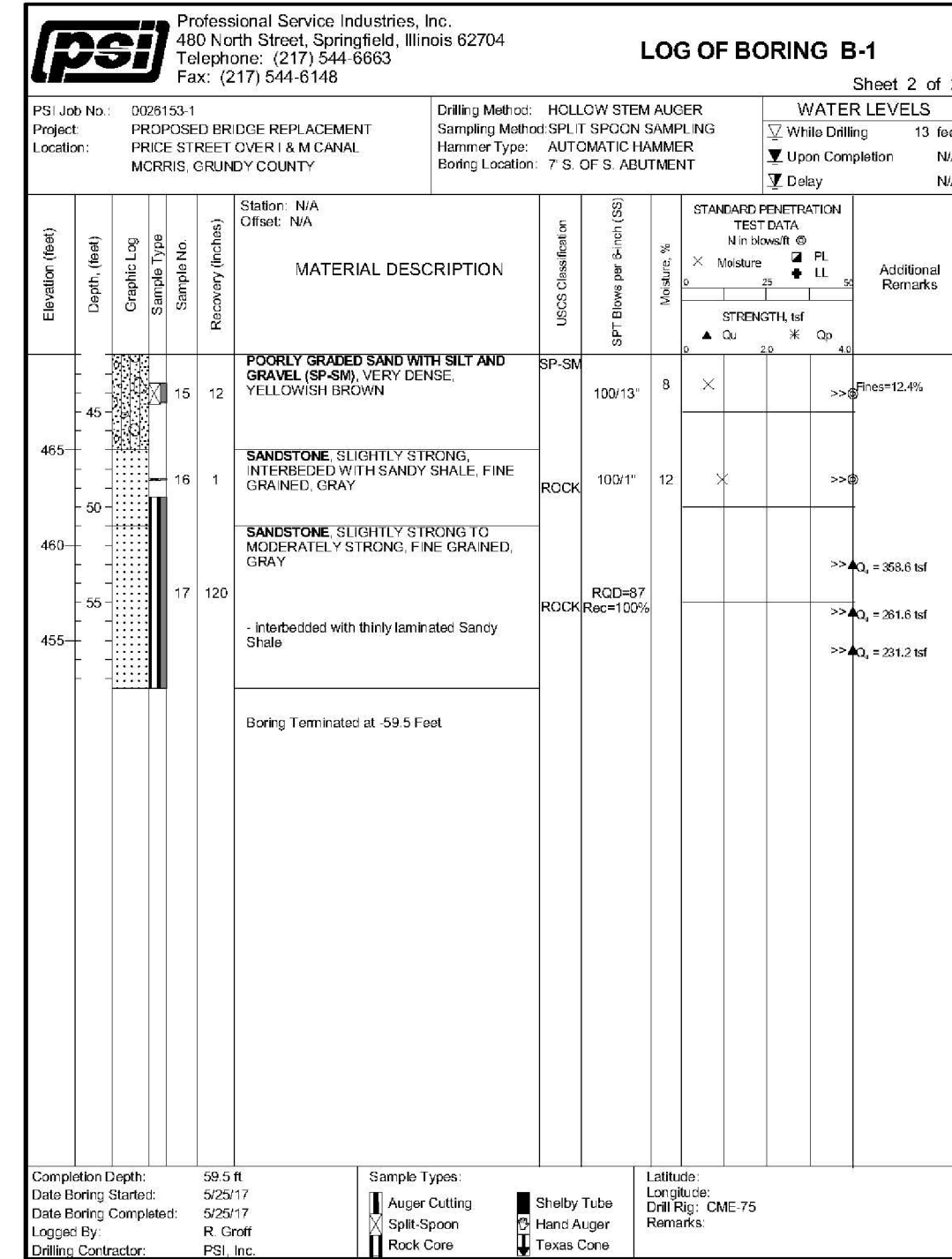
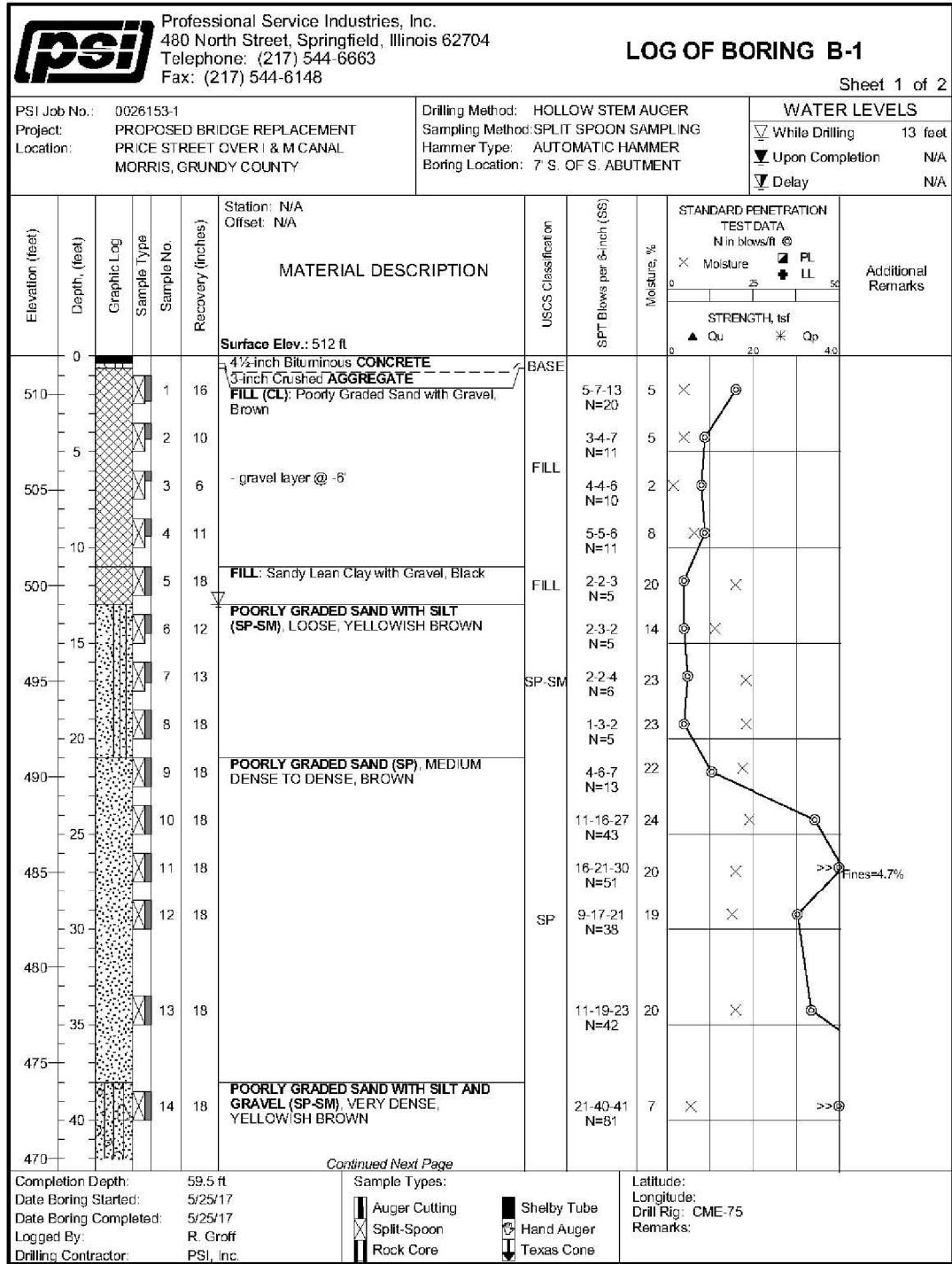
USER NAME =	DESIGNED - KES	REVISED -
PLOT SCALE =	CHECKED - MAH	REVISED -
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	CHECKED - KES	REVISED -

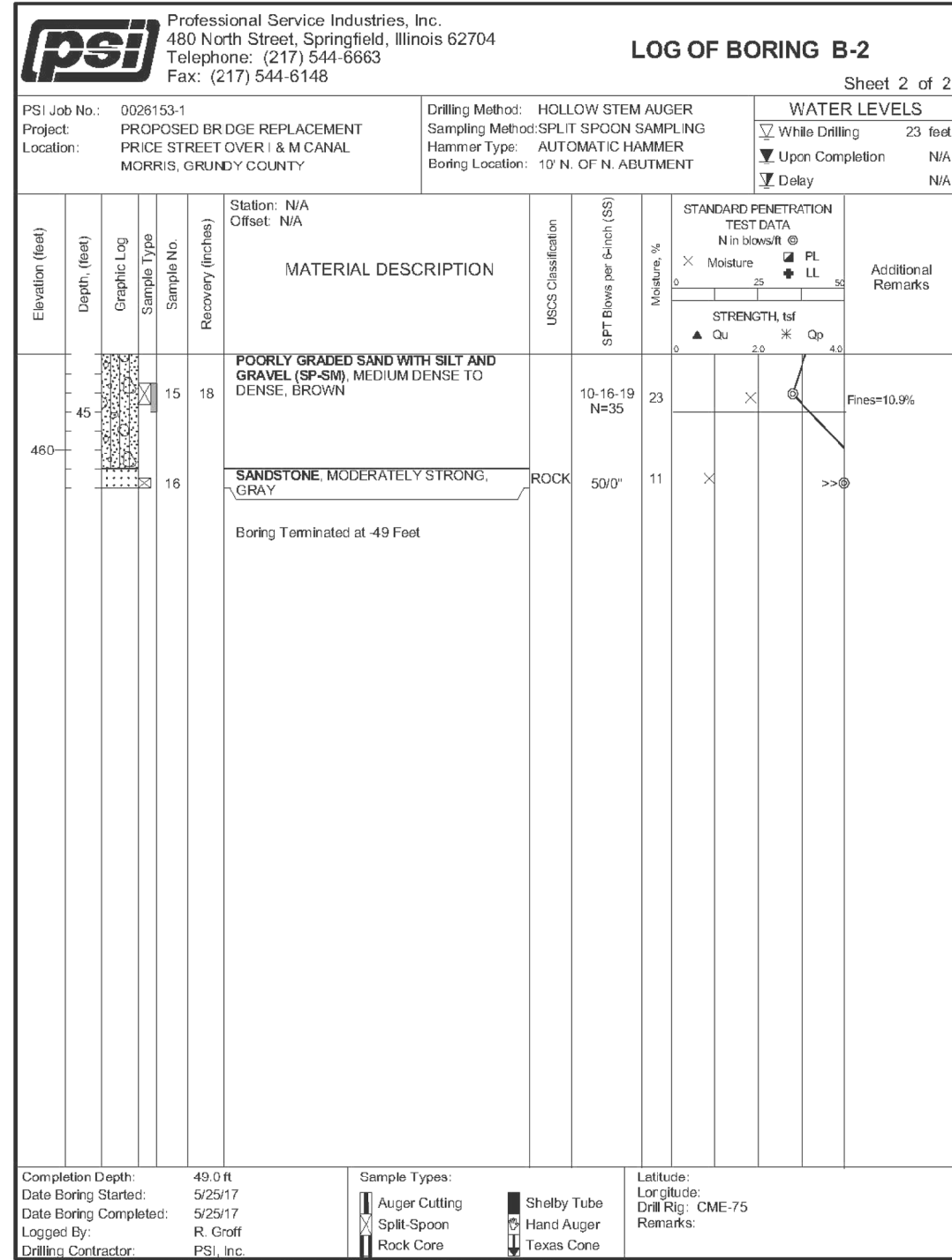
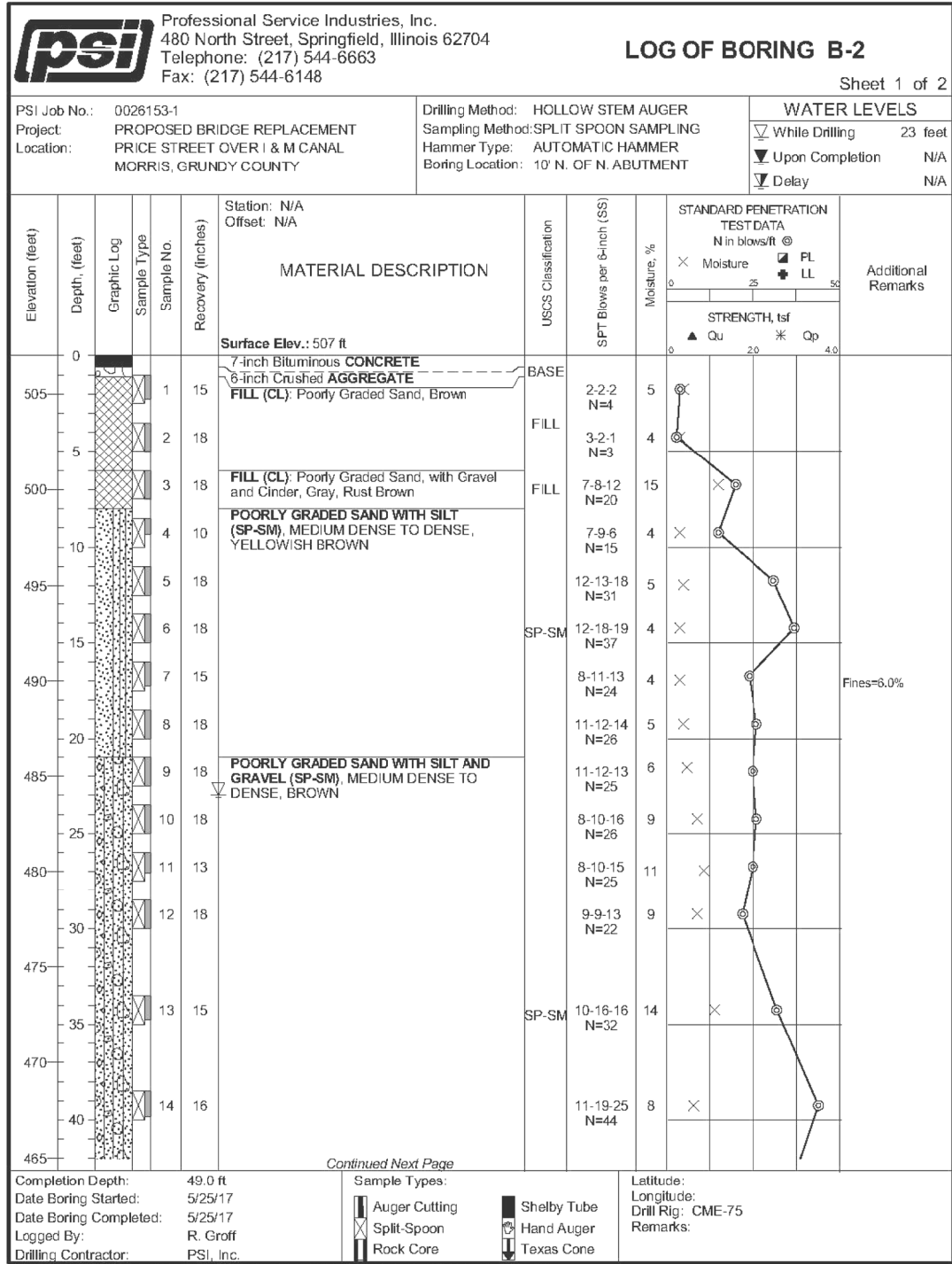
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 032-7099

SHEET NO. 16 OF 19 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	37
			CONTRACT NO. 46902	
ILLINOIS FED. AID PROJECT				





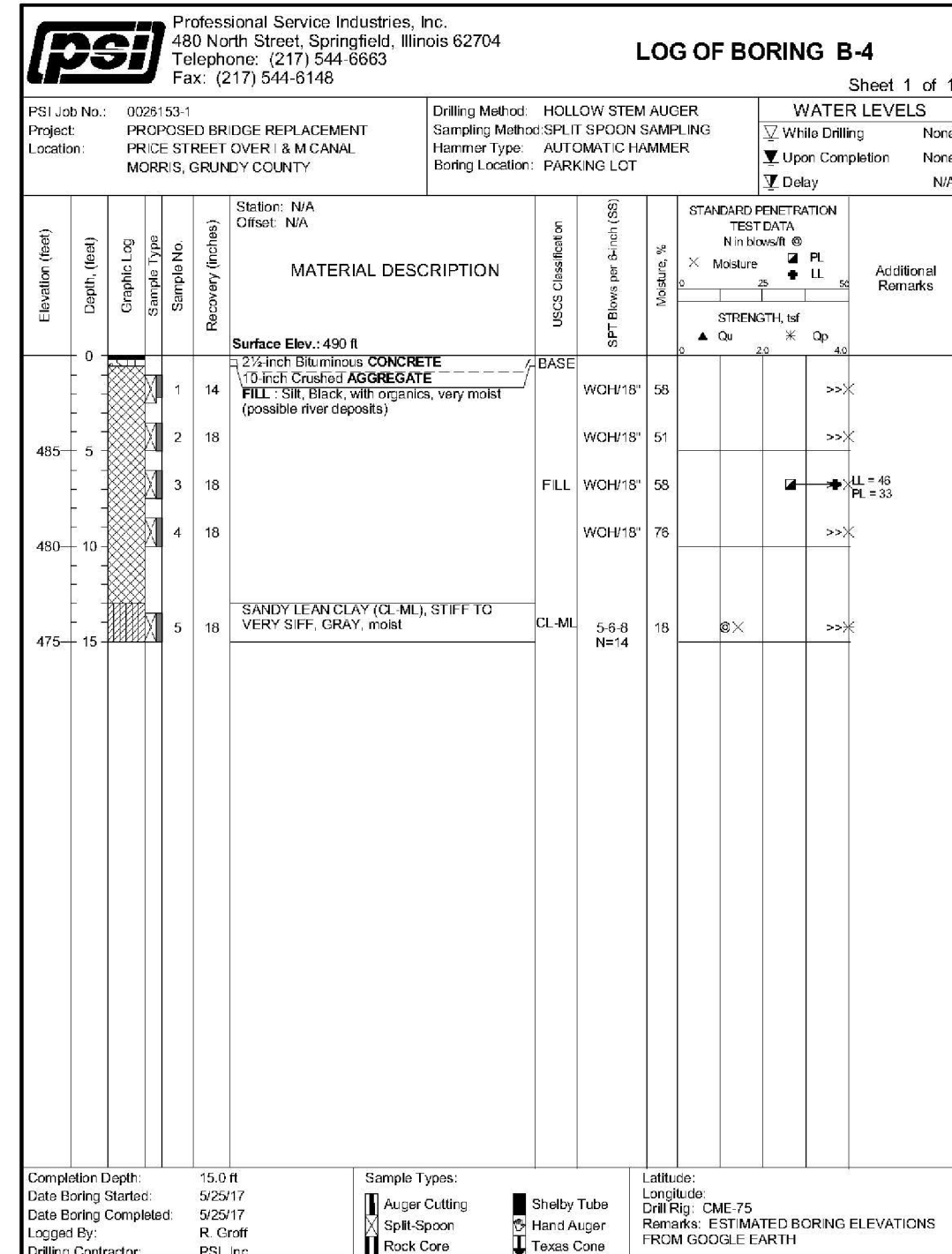
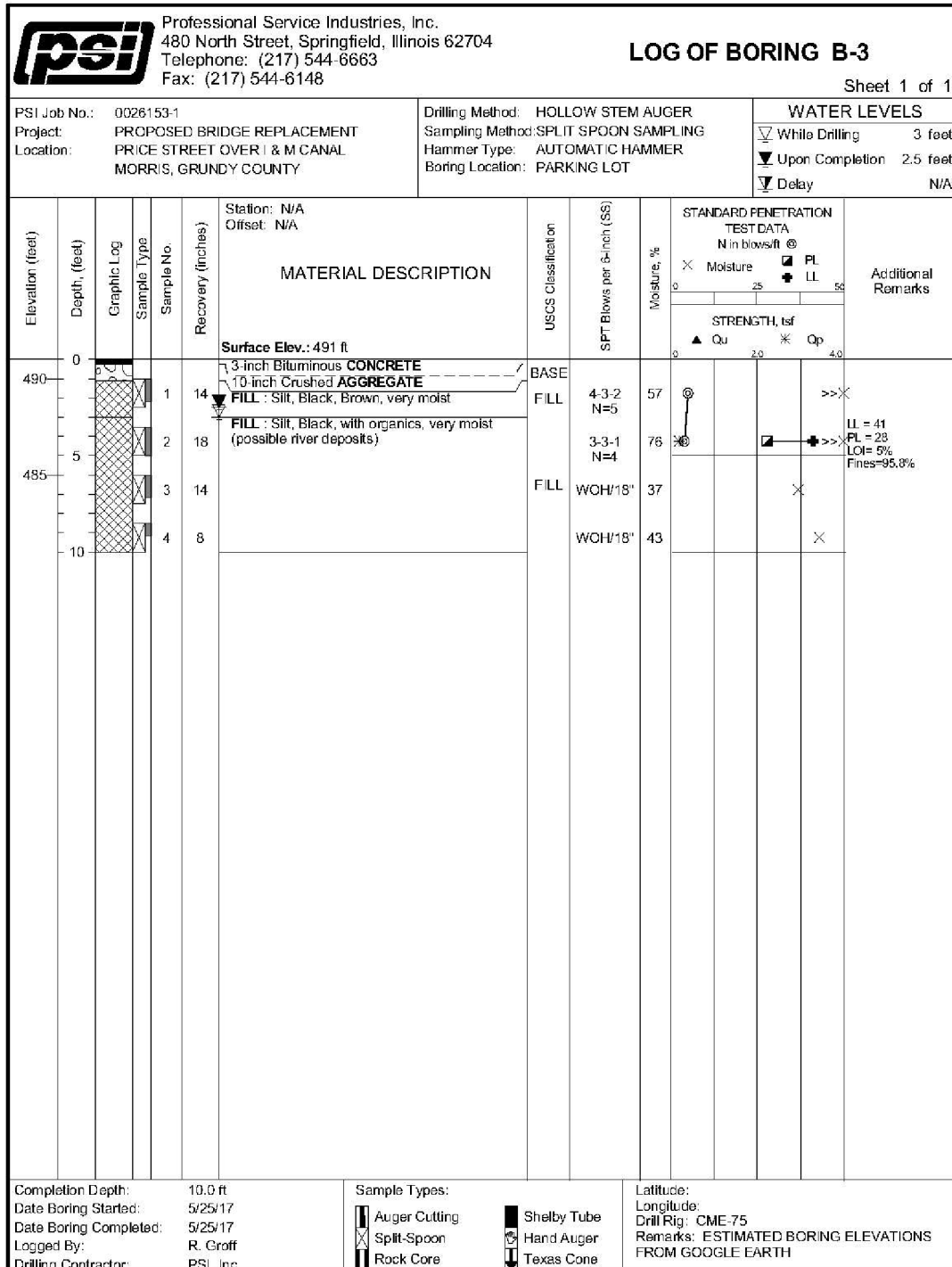
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PLOT SCALE =	CHECKED - MAH	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - KES	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORINGS

SHEET NO. 18 OF 19 SHEETS

F.A. RT.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	39
CONTRACT NO. 46902				
ILLINOIS FED. AID PROJECT				



USER NAME =	DESIGNED - KES	REVISED -
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PLOT SCALE =	DRAWN - JRP	REVISED -
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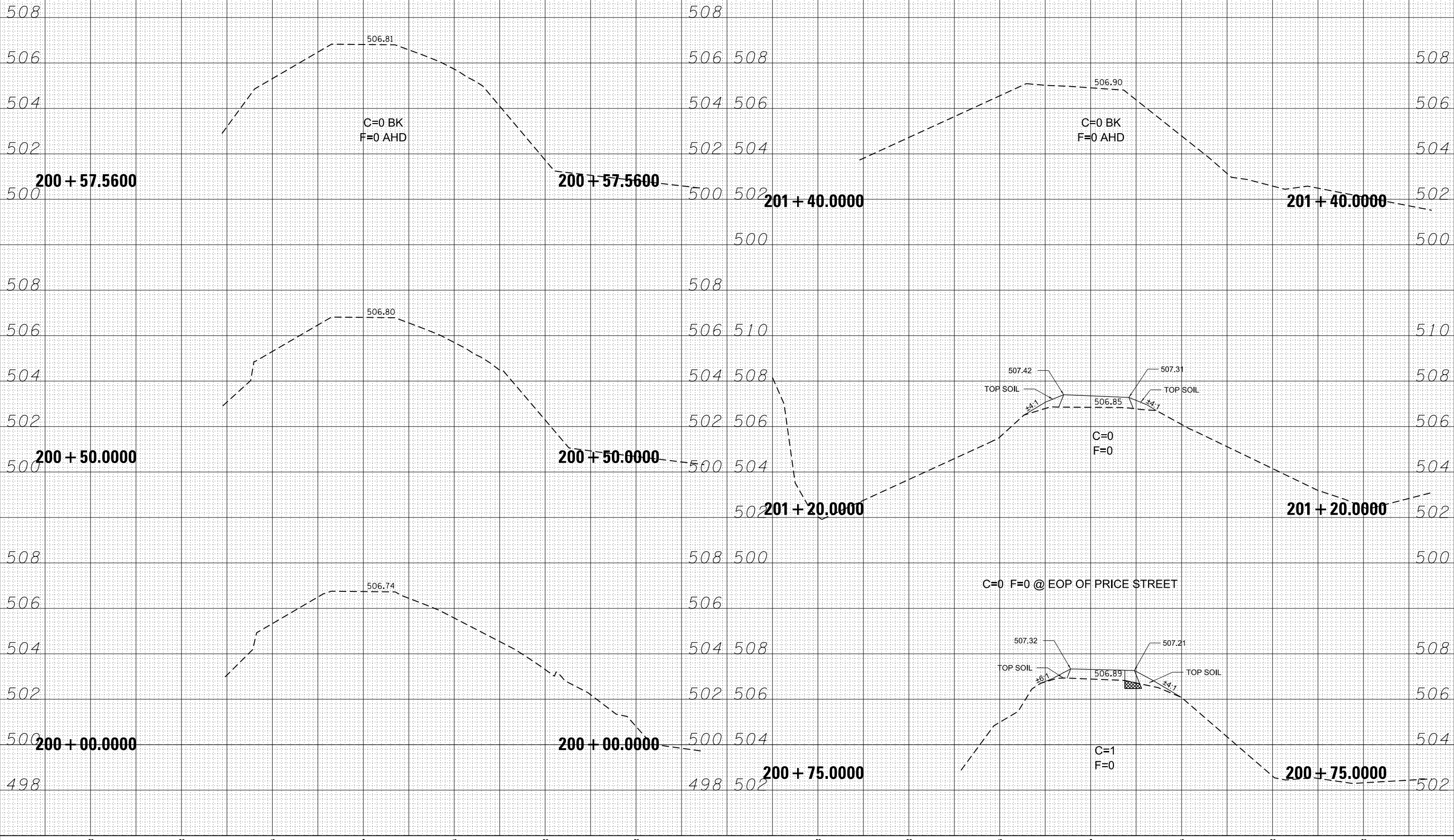
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORINGS

SHEET NO. 19 OF 19 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	40
			CONTRACT NO. 46902	
ILLINOIS FED. AID PROJECT				

**CUT AND FILL VALUES
FOR INFORMATION ONLY**



DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

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USER NAME = Connor Bell	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 2/14/2019	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET	OF	SHEETS	STA. 200+00.0000 TO STA. 201+40.0000
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CANAL TOW PATH CROSS SECTIONS
WILLIAM STRATTON STATE PARK

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	42
CONTRACT NO. 46902				
ILLINOIS FED. AID PROJECT				