F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	1
	ILLINOIS	CONTRACT NO. 66E45		

INDEX OF SHEETS

01-15-2021 LETTING ITEM 024

1	COVER SHEET
2	GENERAL NOTES
3 - 10	SUMMARY OF QUANTITIES
11	TYPICAL SECTIONS
12 - 16	SCHEDULES
17 - 18	PLAN & PROFILE
19	REMOVAL PLANS
20	STAGING PLANS
21	EROSION CONTROL & LANDSCAPING PLANS
22 - 55	SN 032-0075 PLANS
56 - 62	DETAILS
63 - 85	CROSS SECTIONS

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-09	PAVEMENT JOINTS
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
442201-03	CLASS C AND D PATCHES
515001-04	NAME PLATE FOR BRIDGES
610001-09	SHOULDER INLET WITH CURB
630001-12	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
631031-17	TRAFFIC BARRIER TERMINAL, TYPE 6
635001-02	DELINEATORS
667101-02	PERMANENT SURVEY MARKERS
701001-02	OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

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

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

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

PROJECT ENGINEER: BRAD DUNCAN, P.E.
UNIT CHIEF: LUIS CALDERON, P.E.
DISTRICT 3 NO. (815) 434-6131

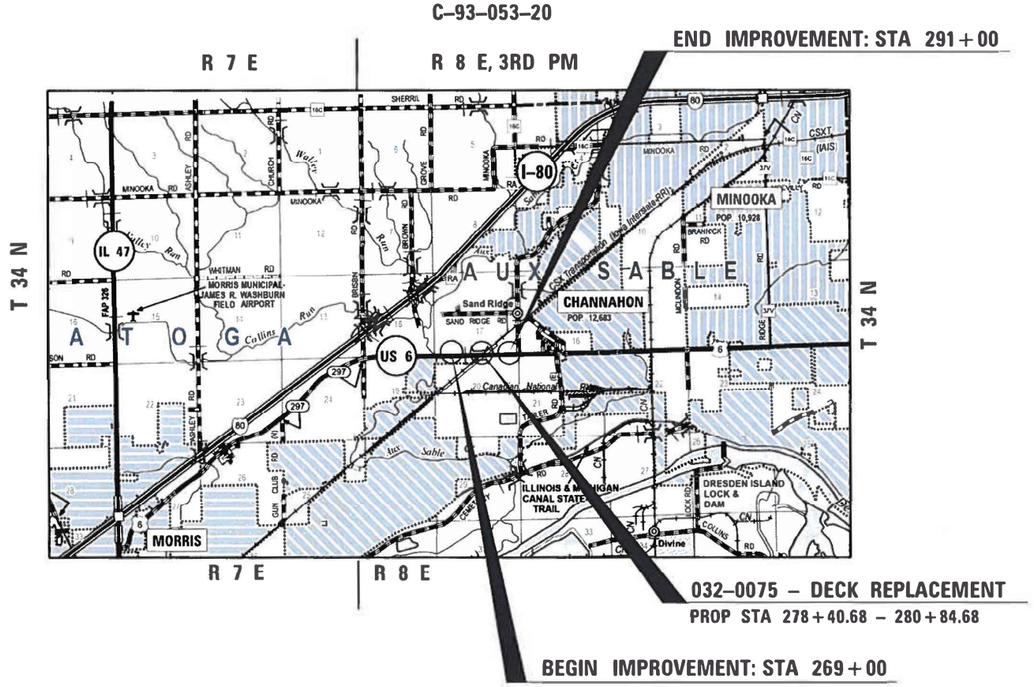
CONTRACT NO. 66E45

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAU ROUTE 392 (US 6)
SECTION (G)VB-1
PROJECT STP-5FZ0(460)
DECK REPLACEMENT & SUBSTRUCTURE REPAIRS
GRUNDY COUNTY

C-93-053-20



GROSS LENGTH = 2200 FT. = 0.417 MILES
NET LENGTH = 2000 FT. = 0.417 MILES

D-93-023-20

LOCATION OF SECTION INDICATED THUS: -

FUNCTIONAL CLASSIFICATION
URBAN MINOR ARTERIAL
ADT (2019): 5,950
SU = 4.2% MU = 4.2% PV = 91.6%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 15, 20 20
REGIONAL ENGINEER

December 4, 2020
ENGINEER OF DESIGN AND ENVIRONMENT

December 4, 2020
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV. 10/29/20

GENERAL NOTES

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

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

3) SHORT TERM PAVEMENT MARKING SHALL BE USED TO OUTLINE EXIT AND ENTRANCE RAMPS FOR THE PRIME COAT APPLICATION AND EACH RESURFACING LIFT.

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

5) 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

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

* AT&T
* Com Ed
* Comcast
* Nicor
* MCI
* Oneok North System

COMMITMENTS

* TREES & SAPPLINGS (3) INCHES OR GREATER IN DIAMETER AT BREAST HEIGHT WILL NOT BE CLEARED FROM APRIL 1 THROUGH SEPTEMBER 30.

* TREES WITHIN THE RAILROAD R.O.W. SHALL NOT BE REMOVED

* WETLAND SITE SHALL BE PROTECTED FROM STA 281+50 TO 283+00 (LT)

* 404 PERMIT NO. DOT-D3-2020-0007

* ONEOK PIPELINE :
AN AUTHORIZED ONEOK REPRESENTATIVE MUST BE PRESENT DURING EXCAVATION WITHIN 25-FT OF AN ONEOK FACILITY OR PIPELINE PLEASE CONTACT AREA REPRESENTATIVE, CHRISTOPHER SCOTT, AT (815)-378-1965 TO MAKE ARRANGEMENTS.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES OF CONSTRUCTION:

INSPECTORS:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY:
DISTRICT STUDIES & PLANS ENGINEER

DATE:

EXAMINED BY:
DISTRICT CONSTRUCTION ENGINEER

DISTRICT MATERIALS ENGINEER

DISTRICT OPERATIONS ENGINEER

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	2
		CONTRACT NO. 66E45		
	ILLINOIS FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE STP-URB 80%FED/20%STATE ROADWAY 0005 GRUNDY	CONSTRUCTION CODE STP-URB 80%FED/20%STATE BRIDGE 0013 032-0075
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	600	600	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	423	423	
20101000	TEMPORARY FENCE	FOOT	163	163	
20200100	EARTH EXCAVATION	CU YD	177	177	
20400800	FURNISHED EXCAVATION	CU YD	6	6	
21400100	GRADING AND SHAPING DITCHES	FOOT	900	900	
25000210	SEEDING, CLASS 2A	ACRE	0.6	0.6	
25000300	SEEDING, CLASS 3	ACRE	0.8	0.8	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	127	127	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	127	127	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	127	127	
25100115	MULCH, METHOD 2	ACRE	0.5	0.5	
25100630	EROSION CONTROL BLANKET	SQ YD	4271	4271	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	141	141	

* SPECIALTY ITEM

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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	3
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

REV. 10/29/20

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE STP-URB 80%FED/20%STATE ROADWAY 0005 GRUNDY	CONSTRUCTION CODE STP-URB 80%FED/20%STATE BRIDGE 0013 032-0075
28000305	TEMPORARY DITCH CHECKS	FOOT	160	160	
28000400	PERIMETER EROSION BARRIER	FOOT	2578	2578	
28000500	INLET AND PIPE PROTECTION	EACH	2	2	
28100705	STONE DUMPED RIPRAP, CLASS A3	SQ YD	470	470	
28200200	FILTER FABRIC	SQ YD	470	470	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	5039	5039	
40600990	TEMPORARY RAMP	SQ YD	107	107	
40602970	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70	TON	339	339	
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	406	406	
42000060	WELDED WIRE REINFORCEMENT	SQ YD	227	227	
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	415	415	
42001300	PROTECTIVE COAT	SQ YD	457	457	
44000100	PAVEMENT REMOVAL	SQ YD	513	513	
44000160	HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"	SQ YD	6056	6056	

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	4
		CONTRACT NO. 66E45		
		ILLINOIS FED. AID PROJECT		

REV. 10/29/20

				CONSTRUCTION CODE	
				STP-URB 80% FED/20% STATE	STP-URB 80% FED/20% STATE
				ROADWAY	BRIDGE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0005	0013
				GRUNDY	032-0075
44000300	CURB REMOVAL	FOOT	3296	3296	
44004250	PAVED SHOULDER REMOVAL	SQ YD	623	623	
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	53	53	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	498	498	
50102400	CONCRETE REMOVAL	CU YD	18.6		18.6
50104650	SLOPE WALL REMOVAL	SQ YD	918		918
50104720	REMOVAL OF EXISTING CONCRETE DECK	EACH	1		1
50157300	PROTECTIVE SHIELD	SQ YD	511		511
50300100	FLOOR DRAINS	EACH	12		12
50300225	CONCRETE STRUCTURES	CU YD	56.8		56.8
50300255	CONCRETE SUPERSTRUCTURE	CU YD	402.9		402.9
50300260	BRIDGE DECK GROOVING	SQ YD	1391		1391
50300300	PROTECTIVE COAT	SQ YD	1726		1726
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	124.2		124.2

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	5
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

					CONSTRUCTION CODE	
					STP-URB 80%FED/20%STATE	STP-URB 80%FED/20%STATE
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE
					0005	0013
					GRUNDY	032-0075
	50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	4460		4460
	50500505	STUD SHEAR CONNECTORS	EACH	1386		1386
*	Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1		1
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	154310		154310
	50800515	BAR SPLICERS	EACH	974		974
	51100100	SLOPE WALL 4 INCH	SQ YD	121		121
	51500100	NAME PLATES	EACH	1		1
	52000110	PREFORMED JOINT STRIP SEAL	FOOT	145		145
	52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	12		12
	52100520	ANCHOR BOLTS, 1"	EACH	40		40
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	838	838	
*	63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	2700	2700	
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	6

CONTRACT NO. 66E45

ILLINOIS FED. AID PROJECT

REV. 12/1/20 REV. 10/29/20

					CONSTRUCTION CODE	
					STP-URB 80% FED/20% STATE	STP-URB 80% FED/20% STATE
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE
					0005	0013
					GRUNDY	032-0075
	63200310	GUARDRAIL REMOVAL	FOOT	3836	3836	
	66101150	HOT-MIX ASPHALT SHOULDER CURB	FOOT	3325	3325	
	66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	3	3	
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	210	210	
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2	
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1	
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1	
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	2	2	
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8	
	67100100	MOBILIZATION	L SUM	1	1	
	70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
	70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	
	70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	7
		CONTRACT NO. 66E45		
	ILLINOIS FED. AID PROJECT			

REV. 10/29/20

					CONSTRUCTION CODE	
					STP-URB 80% FED/20% STATE	STP-URB 80% FED/20% STATE
					ROADWAY	BRIDGE
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0005	0013
					GRUNDY	032-0075
	70106700	TEMPORARY RUMBLE STRIPS	EACH	12	12	
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	660	660	
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	145	145	
	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2108	2108	
	70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	48	48	
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	662.5	662.5	
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	662.5	662.5	
	70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
	70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
*	78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	62	62	
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	21972	21972	
*	78001140	PAINT PAVEMENT MARKING - LINE 8"	FOOT	350	350	
*	78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	162	162	

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	8
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

REV. 10/29/20

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE STP-URB 80% FED/20% STATE ROADWAY 0005 GRUNDY	CONSTRUCTION CODE STP-URB 80% FED/20% STATE BRIDGE 0013 032-0075
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	28	28	
*	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	28	28	
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	28	28	
	X0326649	LINEAR DELINEATOR PANELS, 6 INCH	EACH	6	6	
	X0327809	LINEAR DELINEATOR PANELS, 4 INCH	EACH	48	48	
	X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	799	799	
	X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	2514	2514	
	X6050700	REMOVE INLET BOX	EACH	8	8	
	Z0073100	TEMPORARY SHORING	L SUM	5		5
	Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	16		16
	Z0004552	APPROACH SLAB REMOVAL	SQ YD	196	196	
	Z0005216	HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL	SQ YD	1288	1288	
	Z0007112	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES	L SUM	1		1
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	9
		CONTRACT NO. 66E45		
		ILLINOIS FED. AID PROJECT		

REV. 12/1/20 REV. 10/29/20

				CONSTRUCTION CODE	
				STP-URB 80% FED/20% STATE	STP-URB 80% FED/20% STATE
				ROADWAY	BRIDGE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0005	0013
				GRUNDY	032-0075
Z0018002	DRAINAGE SCUPPERS, DS-11	EACH	4		4
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	42	42	
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	1813	1813	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	
51100301	BITUMINOUS COATED AGGREGATE SLOPEWALL 6"	SQ YD	820		820

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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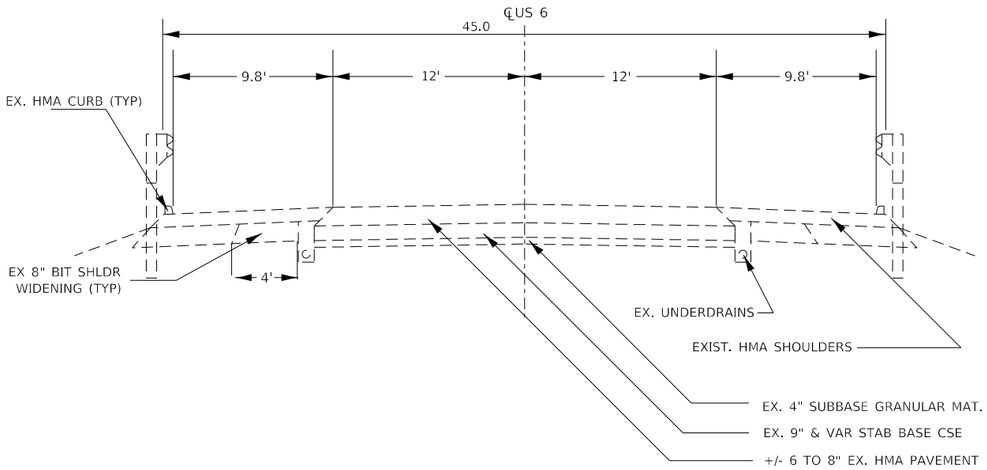
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	10
		CONTRACT NO. 66E45		
		ILLINOIS FED. AID PROJECT		

REV. 10/29/20



EXISTING TYPICAL SECTION 1

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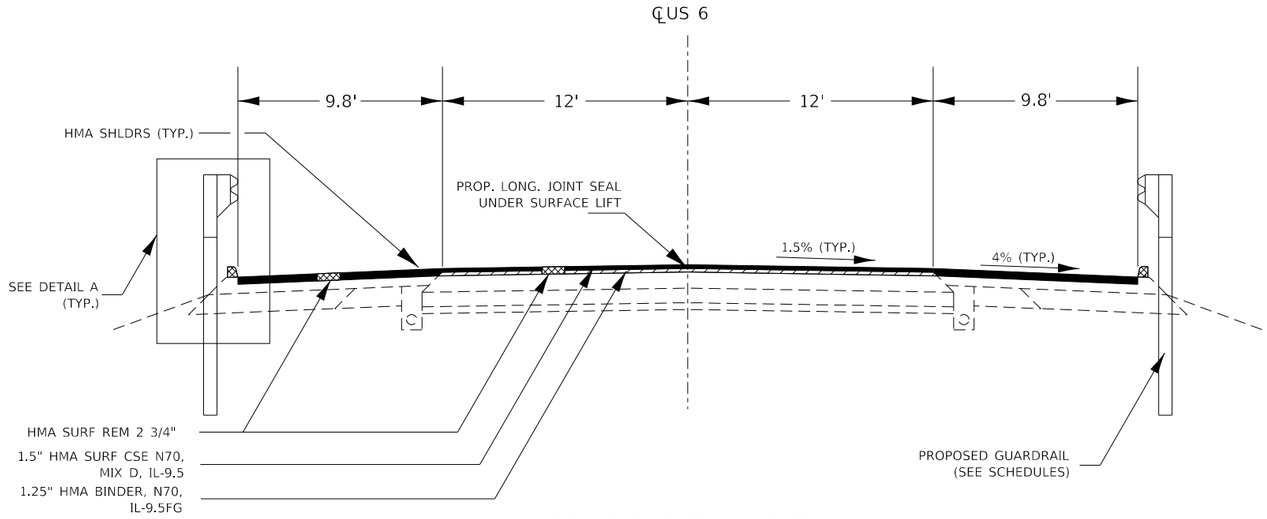
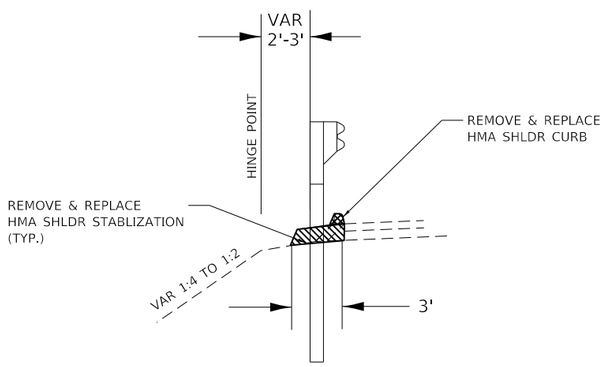
STA 281+05.00 TO 291+00.00



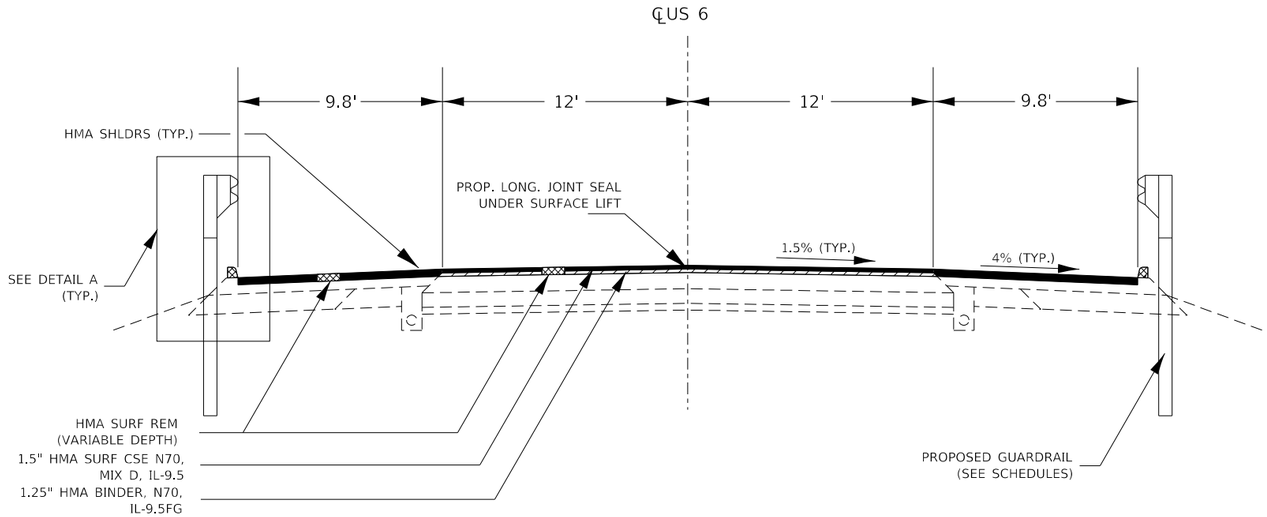
PROPOSED TYPICAL SECTION 1

STA 269+00.00 TO 275+57.00*
STA 285+07.00* TO 291+00.00
* V.P.T. OR V.P.T. (SEE PLAN & PROF)



DETAIL A (TYP.)

HMA CURB TO BE REBUILT AS SHOWN IN HIGHWAY STANDARD 610001, DETAIL B



PROPOSED TYPICAL SECTION 2

STA 275+57.00 TO 277+69.00*

STA 281+56.36* TO 282+00.00
STA 282+00.00 TO 285+07.00
* PCC PAVEMENT CONNECTOR LIMITS

NOTE:
TYPICAL SECTIONS FOR STAGED CONSTRUCTION SHOWN IN STRUCTURE PLANS

FILE NAME = c:\pw_work\pwidot\calderonl\d0419536\D366E45-sht-typical.dgn	USER NAME = calderonl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	11
		CONTRACT NO. 66E45		
	ILLINOIS FED. AID PROJECT			

MAINLINE SCHEDULE

	LOCATION			LENGTH	MAINLINE WIDTH	SHOULDER WIDTH		HMA SURF REM 2.75"	HMA SURF REM VAR DEPTH	BITUMINOUS MATERIAL TACK COAT		HMA SURF CSE N70 IL-9.5 MIX D (1.5")	HMA BIND CSE N70 IL-9.5FG (1.25")	LONG JOINT SEAL	HMA SHOULDER	HMA SHOULDER CURB (2)	TEMP RAMP
						LT	RT			MAINLINE	SHLDR						
				FOOT	FOOT	FOOT	FOOT	SQ YD	SQ YD	POUND	POUND	TON	TON	FOOT	TON	FOOT	SQ YD
	US 6 (FAU 392) - WEST OF PROP STRUCTURE																
	269+00.00	TO	275+57.00	657.00	24.00	9.80	9.80	3,182.8		1,182.60	643.86	147.17	122.64	657.00	180.28	1,214.0	26.7
	275+57.00	TO	277+69.00	212.00	24.00	9.80	9.80		1,027.0	381.60	207.76	47.49	39.57	212.00	58.17	424.0	26.7
	US 6 (FAU 392) - EAST OF PROP STRUCTURE																
1)	281+56.36	TO	282+00.00	43.64	24.00	9.80	9.80	0.0	0.0	78.55	42.77	9.78	8.96	43.64	12.64	87.3	26.7
	282+00.00	TO	285+07.00	307.00	24.00	9.80	9.80		1,487.2	552.60	300.86	68.77	57.31	307.00	84.24	614.0	
	285+07.00	TO	291+00.00	593.00	24.00	9.80	9.80	2,872.8		1,067.40	581.14	132.83	110.69	593.00	162.72	986.0	26.7
	TOTALS			1,813				6,056	2,514	5,039		406	339	1,813	498	3,325	107

(1) UP TO 1/4" ADDITIONAL BINDER AND HMA SHLDR QUANTITY ADDED TO REACH PROP. GRADE.

(2) HMA SHOUDLER CURB DIMENSIONS TO MATCH HWY STND 610001, DETAIL B

HMA MIXTURE REQUIREMENT TABLE

LOCATIONS:	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT
MIXTURE USE(S):	HMA SURFACE	HMA BINDER	HMA SHOULDER BOTTOM LIFT	HMA SHOULDER TOP LIFT	HMA CLASS D PATCHES (10")	HMA CURB
BINDER GRADE (PG):	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N70	4.0% @ N70	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 9.5	IL 9.5FG	IL 9.5FG	IL 9.5	IL 19.0	IL 9.5FG
FRICTION AGGREGATE:	MIXTURE D			MIXTURE C		
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QCQA	QCQA	QCQA	QCQA	QCQA	QCQA
SUBLOT SIZE:	N/A	N/A	N/A	N/A	N/A	N/A
DENSITY TEST METHOD:	CORES	CORES	CORES	CORES	CORES	SATISFACTION OF ENGINEER

PATCHING SCHEDULE

LOCATION		PAVT PATCH CL D TY II, 10"	FURNISHED EX
		SQ YD	CU YD
WEST OF STRUCTURE			
269+55.00	LT & RT	13.3	1.5
273+60.00	LT & RT	13.3	1.5
EAST OF STRUCTURE			
286+60.00	LT & RT	13.3	1.5
290+00.00	LT & RT	13.3	1.5
TOTALS		53	6

PAVEMENT MARKING & RPPM SCHEDULE

LOCATION	PAINT PAVT MARKING (2 APPLICATIONS)						LTRS & SYMB	RAISED REFLECT PAVEMENT MARKER	
	4"			8"		12"			
	Y NP ZONE	Y MED	W PAVT EDGE	W TURN LANE	W SKIP	Y MED DIAG		REMOVAL	INSTALL AMBER
STA TO STA	FOOT	FOOT	FOOT	FOOT		FOOT	SQ FT	EACH	EACH
267+45 TO 269+00	620		620						
269+00 TO 291+00	8,800		8,800					28	28
291+00 TO 293+50		2,132	1,000	280	70	162	62		
TOTALS	21,972			350		162	62	28	28

SHORT TERM PAVEMENT MARKING

LOCATION		SHORT TERM PAVT MARKING (3 APPS)	SHORT TERM PAVT MARKING REMOVAL (2 APPS)
STA	TO STA	FOOT	SQ FT
269+00	TO 291+00	660	145
TOTALS		660	145

TRAFFIC CONTROL & STAGING SCHEDULE

	TEMP PAVT MARK 4" W	TEMP PAVT MARK 24" W	PAVT MARK REM WATER BLAST	TEMPORARY CONCRETE BARRIER WALL		IMPACT ATTENUATOR TEMPORARY NON-REDIRECTIVE TEST LVL 3		TEMP RUMBLE STRIPS	TEMP BRIDGE TRAFF SIGNALS
				INSTALL	RELOCATE	INSTALL	RELOCATE		
	FOOT	FOOT	SQ FT	FOOT	FOOT	EACH	EACH	EACH	EACH
STAGE 1									
274+90 TO 284+85	995	24	380						0.5
276+44 TO 282+82				662.5		2			
SEE HWY STND 701321								6	
STAGE 1	**995**	**24**	**380**	**662.5**	**0**	**2**	**0**	**6**	**0.5**
STAGE 2									
274+32 TO 285+45	1,113	24	419						0.5
276+33 TO 282+92					662.5		2		
SEE HWY STND 701321								6	
STAGE 2	**1,113**	**24**	**419**	**0**	**662.5**	**0**	**2**	**6**	**0.5**
GRAND TOTALS	**2,108**	**48**	**799**	**662.5**	**662.5**	**2**	**2**	**12**	**1**

DRAINAGE SCHEDULE

LOCATION FROM	LOCATION TO	SIDE LT/RT	GRADING & SHAPING DITCHES	STONE DUMPED RIPRAP CL A3 (1)	FILTER FABRIC	DIRECTION OF FLOW
			FOOT	SQ YD	SQ YD	
271+00	276+50	LT	550			EAST
273+00	276+50	RT	350			EAST
269+55		LT		110	110	
269+55		RT		120	120	
290+00		LT		120	120	
290+00		RT		120	120	
TOTALS			**900**	**470**	**470**	

(1) - RIPRAP THICKNESS SHALL BE OF 18 INCHES (SEE DETAILS)

REMOVAL ITEMS SCHEDULE

	LOCATION			LENGTH	PAVT REMOVAL	APPROACH SLAB REMOVAL	GR REM	CURB REMOVAL (HMA)	PAVED SHLDR REMOVAL (1)	REMOVE INLET BOX	EARTH EX (2)
				FOOT	SQ YD	SQ YD	FOOT	FOOT	SQ YD	EACH	CU YD
	WEST OF STRUCTURE										
	269+00.00	TO	278+41.48	941.5			1,844		299		
	277+69.00	TO	278+21.48	52.5	256.6						
	278+21.48	TO	278+41.48	20.0		97.8					
	269+60.00	TO	277+69.00	809.0				1,618			
	269+55.00	LT & RT								2	92
	273+60.00	LT & RT								2	
	EAST OF STRUCTURE										
	280+83.88	TO	291+00.00	1016.1			1,992		324		
	280+83.88	TO	281+03.88	20.0		97.8					
	281+03.88	TO	281+56.36	52.5	256.6						
	281+56.00	TO	289+95.00	839.0				1,678			
	286+60.00	LT & RT								2	
(3)	290+00.00	LT & RT								2	86
	TOTALS				**513**	**196**	**3,836**	**3,296**	**623**	**8**	**177**

(1) - PAVED SHOULDER REMOVAL TO REMOVE EXIST HMA STABILIZATION FROM GUARDRAIL

(2) - SEE SPECIAL PROVISION

(3) - ENVIRONMENTAL RESTRICTONS EXIST FOR EARTHEN MATERIALS - PLEASE SEE SP

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	13
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

TREE REMOVAL SCHEDULE

TREE NUMBER	# OF STEMS	INDIVIDUAL STEM MEASUREMENTS 1	2	3	4	5	6	7	8	REMOVAL BY UNIT DIAMETER 6 TO 15 UNIT	OVER 15 UNIT
NE QUAD (288+00 TO 280+50) - EAST TO WEST MEASUREMENTS											
1	2	22	8							8	22
2	1	17									17
3	1	18									18
4	1	6								6	
5	2	13	17							13	17
6	2	9	8							17	
7	2	12	11							23	
8	1	8								8	
9	2	17	13							13	17
10	2	6	8							14	
11	1	17									17
12	2	15	18							15	18
13	1	11								11	
14	1	6								6	
15	2	18	16								34
16	1	6								6	
17	4	10	12	9	11					42	
18	4	13	11	13	16					37	16
19	1	6								6	
20	1	23									23
21	2	24	15							15	24
22	1	21									21
23	1	7								7	
24	1	9								9	
25	4	11	20	21	16					11	57
26	1	9								9	
27	3	12	18	16						12	34
28	3	16	6	6						12	16
29	2	8	8							16	
30	1	9								9	
31	2	12	22							12	22
32	1	15								15	
33	1	13								13	
34	2	12	13							25	
35	1	9								9	
36	1	6								6	
37	1	10								10	
38	1	7								7	
39	1	8								8	
40	1	16									16
41	3	6	13	9						28	
42	1	13								13	
43	1	7								7	
SUBTOTAL										**478**	**389**
NE QUAD											
44	8	12	12	7	7	8	9	7	6	68	
SUBTOTAL										**68**	**0**

TREE REMOVAL SCHEDULE (CONT.)

SE QUAD											
45	2	9	6							15	
46	1	17									17
47	2	11	9							20	
48	1	11								11	
49	2	17	8							8	17
SUBTOTAL										**54**	**34**
TOTALS										**600**	**423**

NOTES:

1) **NE QUADRANT TREES** - CLEARING AND TREE REMOVAL TYPICALLY FROM ROW LINE TO DITCH LINE TO ALLOW EQUIPMENT ACCESS TO JOBSITE UNDER BRIDGE. REMOVAL QUANTITIES WILL BE ADJUSTED IF LESS CLEARANCE IS REQUIRED
2) **ALL OTHER QUADRANTS** - TREE REMOVAL REQUIRED IF IT IS ON THE WAY OF CONSTRUCTION OPERATIONS
3) **NO TREES SHALL BE REMOVED WITHIN THE RAILROAD ROW LINE**

GUARDRAIL & PARAPET SCHEDULE

LOCATION FROM	LOCATION TO	DIRECTION OF TRAFFIC	REQ'D LENGTH OF NEED	TBT TY 1 (SPL) TANGENT	TBT TY 6	SPBGR TY A 6-FT POST	SPBGR TY A 9-FT POST	HMA STAB AT SPBGR 6"	TERM MARKER DIRECT APPLIED	GR REFL TY A	LIN DEL PANEL 4"	LIN DEL PANEL 6"
			FOOT	EACH	EACH	FOOT	FOOT	SQ YD	EACH	EACH	EACH	EACH
NW QUADRANT - GUARDRAIL												
268+82.00	278+57.00	WB DEPARTING	962.5	1	1	212.5	675.0	320.8	1	7	12	
SW QUADRANT - GUARDRAIL												
268+39.50	278+02.00	EB APPROACHING	950.0	1	1	250.0	625.0	316.7	1	7	12	
NE QUADRANT - GUARDRAIL												
281+23.00	290+98.00	WB APPROACHING	962.5	1	1	187.5	700.0	320.8	1	7	12	
SE QUADRANT - GUARDRAIL												
280+68.00	290+68.00	EB DEPARTING	987.5	1	1	187.5	700.0	329.2	1	7	12	
BRIDGE PARAPET												
NORTH PARAPET		WB										3
SOUTH PARAPET		EB										3
TOTAL			**3,863**	**4**	**4**	**838**	**2,700**	**1,288**	**4**	**28**	**48**	**6**

FOR SPACING OF GUARDRAIL REFLECTORS SEE HWY STND 782006
SEE SP FOR LINEAR DELINATOR PANEL 4" & 6"

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	14
		CONTRACT NO. 66E45		
		ILLINOIS FED. AID PROJECT		

PCC PAVEMENT CONNECTOR SCHEDULE

LOCATION	AREA	PAVT CONN FOR BRIDGE APPROACH SLAB (PCC)*	PROTEC COAT	WELDED WIRE REINFOR
	SQ YD	SQ YD	SQ YD	SQ YD
EAST CONNECTOR				
277+69.00 TO 278+11.48	207.7	207.68	228.51	113.28
WEST CONNECTOR				
281+13.88 TO 281+56.36	207.7	207.68	228.51	113.28
TOTALS	415	415	457	227

*TIE BARS AND DOWEL BARS INCLUDED IN THE COST OF PCC CONNECTOR

PERMANENT SURVEY MARKER SCHEDULE

US RTE. 6 | LOCATION: CSX TRANSPORTATION RR, 5.3 MI E OF IL 47 | GRUNDY COUNTY

MONUMENT REFERENCE NUMBER	DESCRIPTION	APPROXIMATE LOCATION	EXISTING MONUMENT TYPE	PROPOSED MONUMENT TYPE	MONUMENT RECORD TO BE RECORDED	RESPONSIBILITY
PI2750000	PI STA. 275+00.00	462.68 FEET WEST OF CENTER OF STRUCTURE	MAG NAIL	TYPE 1	NO	1
006500	N 1/4 CORNER SECTION 20, T34N, R8E, 3RD PM	335.75 FEET WEST OF CENTER OF STRUCTURE, 1 FOOT SOUTH OF CENTERLINE	MISSING	TYPE 1	YES	1
POT2796268	POT STA 279+62.68	CENTER OF STRUCTURE 032-0075	NONE	CUT CROSS	NO	2
POT2850000	POT STA 285+00.00	537.32 FEET EAST OF CENTER OF STRUCTURE	NONE	TYPE 1	NO	1
TOTAL TYPE 1 PSM PAY ITEM:						3

COORDINATES OF THE LISTED MONUMENTS ARE KNOWN. PRE CONSTRUCTION TIES ARE NOT REQUIRED.
R.E. WILL INFORM PLATS AND PLANS TO SEARCH FOR ADDITIONAL MONUMENTS IF THE JOB LIMITS ARE EXPANDED DURING CONSTRUCTION.
UPON PAVING COMPLETION, R.E. WILL DIRECT PLATS AND PLANS TO STAKE THE LOCATIONS FOR TYPE 1 MONUMENT CORING.
NOTE: FOR BIDDING PURPOSES, NO CONTRACTED LAND SURVEYING SERVICES WILL BE REQUIRED FOR SETTING THE LISTED PERMANENT SURVEY MARKERS. PLATS AND PLANS WILL PREPARE AND RECORD THE REQUIRED MONUMENT RECORD.

RESPONSIBILITY:
1) RESIDENT TO RE-ESTABLISH MONUMENT (PAY ITEM REQUIRED. PERMANENT SURVEY MARKER, TYPE 1)
2) PLATS AND PLANS TO RE-ESTABLISH MONUMENT

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	15
		CONTRACT NO. 66E45		
	ILLINOIS FED. AID PROJECT			

EROSION CONTROL & LANDSCAPING SCHEDULE

LOCATION	SIDE	PERIMETER EROSION BARRIER	TEMP EROS CONTROL SEEDING **	TEMP DITCH CHECKS *	INLET & PIPE PROTECT	TEMP FENCE	EROSION CONTROL BLANKET	MULCH METHOD 2	FERTILIZER NUTRIENTS			SEED CL 2A	SEED CL 3
									NITRO	PHOS	POT		
		FOOT	POUND	FOOT	EACH	FOOT	SQ YD	ACRE	POUND	POUND	POUND	ACRE	ACRE
NW QUADRANT													
269+50	LT	44	2				76		1.4	1.4	1.4	0.02	
273+59	LT		2				84		1.6	1.6	1.6		0.02
271+00 TO 276+67	LT	956	25				1,207		22.4	22.4	22.4	0.25	
276+67 TO 279+93	LT		20		1			0.20	18.1	18.1	18.1		0.20
278+38 TO 279+37	LT		5				246		4.6	4.6	4.6		0.05
271+00	LT			10									
272+50	LT			10									
274+00	LT			10									
275+50	LT			10									
277+00	LT			10									
278+50	LT			10									
SW QUADRANT													
269+50	RT	44	2				97		1.8	1.8	1.8	0.02	
273+59	RT		2				94		1.7	1.7	1.7		0.02
273+00.0 TO 276+66.0	RT	540	12		1		587		10.9	10.9	10.9	0.12	
276+66.0 TO 278+24.0	RT		8					0.08	6.9	6.9	6.9		0.08
277+50.0 TO 278+85.0	RT		6				298		5.5	5.5	5.5	0.06	
273+00	RT			10									
274+50	RT			10									
276+00	RT			10									
277+50	RT			10									
SE QUADRANT													
279+80.0 TO 281+60.0	RT	220	7				344		6.4	6.4	6.4		0.07
286+59	RT	44	2				98		1.8	1.8	1.8		0.02
290+00	RT	44	2				101		1.9	1.9	1.9	0.02	
NE QUADRANT													
280+33 TO 281+60	LT		9				421		7.8	7.8	7.8		0.09
281+46 TO 282+61	LT		6			163		0.06	5.6	5.6	5.6		0.06
282+73 TO 285+00	LT	686	11				190	0.07	9.5	9.5	9.5	0.04	0.07
285+00 TO 288+00	LT		17				232	0.12	15.0	15.0	15.0	0.05	0.12
286+59	LT		2				98		1.8	1.8	1.8		0.02
290+00	LT		2				99		1.8	1.8	1.8	0.02	
282+50	LT			10									
282+70	LT			10									
283+50	LT			10									
285+00	LT			10									
286+50	LT			10									
288+00	LT			10									
TOTALS		**2,578**	**141**	**160**	**2**	**163**	**4,271**	**0.5**	**127**	**127**	**127**	**0.6**	**0.8**

* LENGTH OF DITCH CHECK - 10' (FOR ESTIMATING QTYS)

** TEMP EROSION CONTROL SEEDING - 100 LBS/ACRE

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	PLOT SCALE = 100.0000 ' / in.	DRAWN -	REVISED -				COUNTY GRUNDY
	PLOT DATE = 8/19/2020	CHECKED -	REVISED -				TOTAL SHEETS 85 / SHEET NO. 16
		DATE -	REVISED -		SCALE: / SHEET OF SHEETS / STA. / TO STA.		CONTRACT NO. 66E45
							ILLINOIS FED. AID PROJECT

PLAN
SURVEYED
PLOTTED
AUTOMATIC CHECKED
R.I. OV'AY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CHANGES CHECKED
R.M. NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.
BY
DATE

MODEL: $MODELNAMES
FILE NAME: c:\pw_work\pwidot\calderonl\d0419360\D366E45\sht-plnprf.dgn

N

0 50 100 150
SCALE IN FEET

268+00.00 R 2
105.00' LT

272+00.00 R 2
120.00' LT

03-17-300-006
L-M-K Farm Partnership

276+24.93 R 2
120.00' LT

276+24.93 R 2
105.00' LT

03-17-400-003
Douglas Halkyard, et al

280+35.68 R 2
115.00' LT

EX. ROW

FF

℄ 530.10

GRADE AND SHAPE DITCH TO 0.20%
STA. 271+00 TO STA. 276+50

GRADE & SHAPE DITCHES

EX 36" RCCP
TO REMAIN IN PLACE

PROJECT BEGINS
269+00

12.50'
TBT TY 1
(SPL) TAN.
37.5'

212.5' SPBGR 6-FT POSTS

+44.5

EX PIPE 39.5'

675.0' SPBGR 9-FT POSTS

PVC Sta 275+00.00

PVC Sta 278+00.00

TBT TY
6
37.5'

+57

PVC Sta 279+62.68

51°19'

266 | 267 | 268 | 269 | 270+00 | 271 | 272 | ℄ US 6 | 273 | 274 | 275+00 | 276 | 277 | 278 | 279 | 280+00

CONSTRUCTION LIMITS

250.0' SPBGR 6-FT POSTS

625.0' SPBGR 9-FT POSTS

37.5'
TBT TY
6

+02

89+

37.50'
TBT TY
6

268+00.00 R 2
85.00' RT

12.50'
TBT TY 1
(SPL) TAN.

RIPRAP CLASS A3,
18" THICK (TYP.)

+39.5

272+00.00 R 2
100.00' RT

GRADE AND SHAPE DITCH TO 0.16%
STA. 273+00 TO STA. 276+50

GRADE & SHAPE DITCHES

276+24.93 R 2
100.00' RT

℄ SN 032-0075
STA. 279+62.68
THREE SPAN
STEEL BEAM BRIDGE

℄ 529.80

℄ 526.49

279+08.42 R 2
115.00' RT

EX. ROW

03-20-100-013
Aux Sable Investments L.L.C.

03-20-502-002
CSXT Railroad

03-20-200-001
UNKNOWN

03-20-200-002
Commonwealth Edison Co.

CE

276+24.3 R 2
214.5' RT

BM #8 ELEV. 566.39
STA. 278+15.34 22.39 RT
CUT SQUARE IN SW WINGWALL
OF BRIDGE SN 032-0075

MATCHLINE STA 281+00

PROPOSED US 6 ℄ PROFILE

VPI 280+32.00
ELEV 568.50

1.66%

L=950'

VPC 275+57.00
ELEV 560.61

EXISTING US 6 ℄ PROFILE

543.05

3.50%

+00 LT
531.22

-0.2%

+00 RT
530.58

-0.16%

+00 LT
530.12

+00 RT
529.82

565 | 560 | 555 | 550 | 545 | 540 | 535 | 530 | 525

536.29	537.07	537.86	539.03	540.20	541.63	543.05	543.05	544.58	544.58	546.11	546.11	547.82	547.82	549.53	549.53	551.04	551.04	552.55	552.55	553.95	553.95	555.34	555.34	556.59	556.59	557.83	557.83	558.74	558.74	559.66	559.66	560.49	560.61	561.32	561.29	561.95	561.98	562.59	562.57	562.94	563.06	563.29	563.45	563.63	563.73	563.94	563.92	563.98	564.00	564.00	563.98	563.75	563.86	563.41	563.64

266+00 | 267+00 | 268+00 | 269+00 | 270+00 | 271+00 | 272+00 | 273+00 | 274+00 | 275+00 | 276+00 | 277+00 | 278+00 | 279+00 | 280+00 | 281+00

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	DRAWN -	REVISED -	
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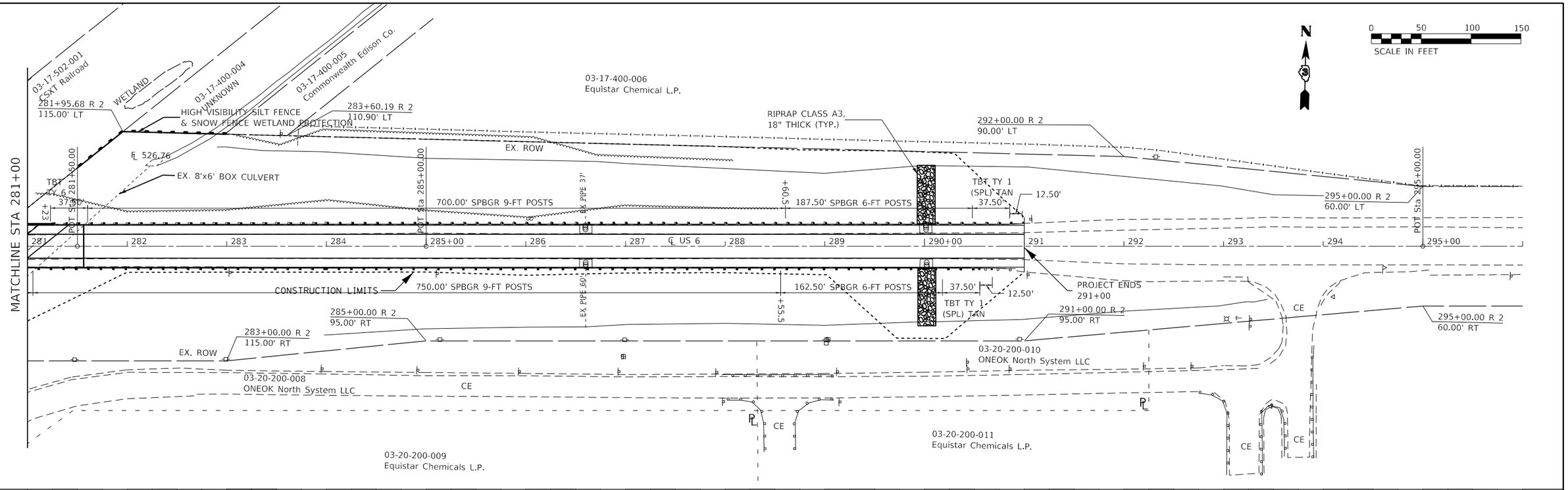
PLOT DATE = 8/19/2020	DATE -	REVISED -	

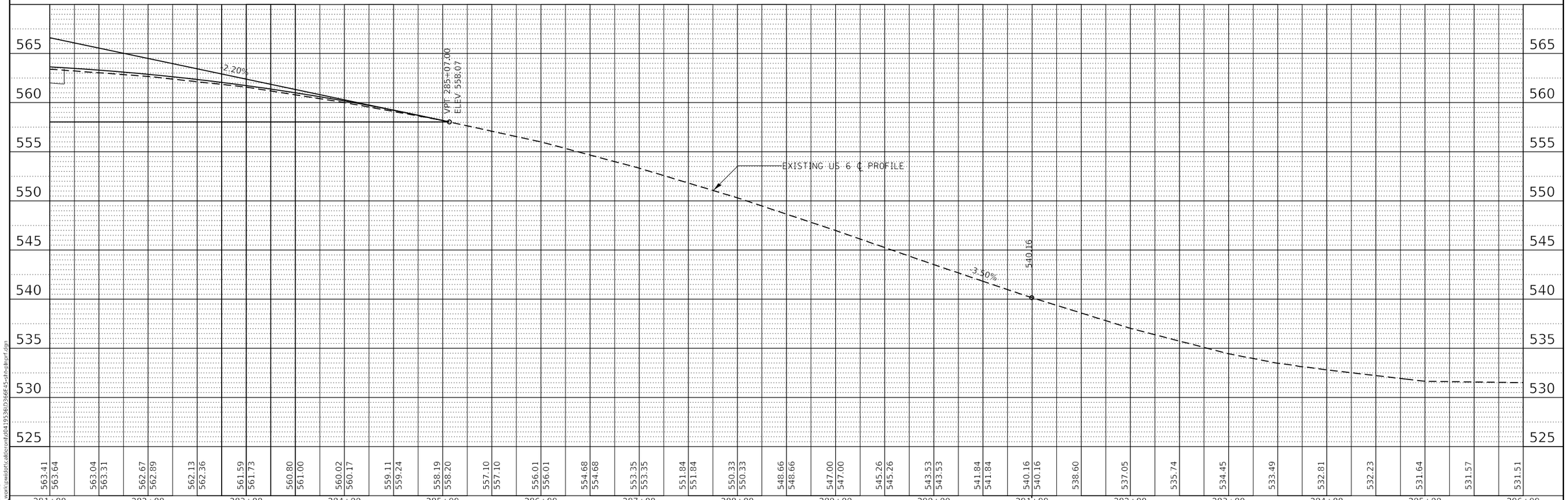
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6
PLAN & PROFILE

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	17
		CONTRACT NO. 66E45		
	ILLINOIS FED. AID PROJECT			





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PROFILE — SURVEYED / PLOTTED / PROJECT CHECKED / B.M. NOTED / STRUCTURE NO'S CHKD / NOTE BOOK / NO. / BY / DATE

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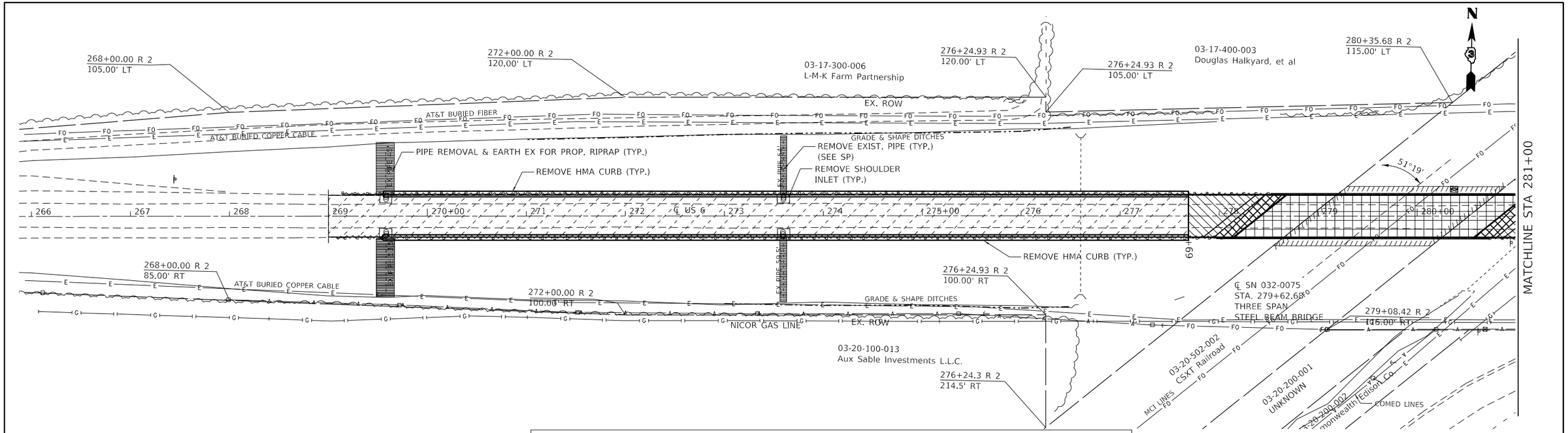
PLOT DATE = 8/19/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6
PLAN & PROFILE

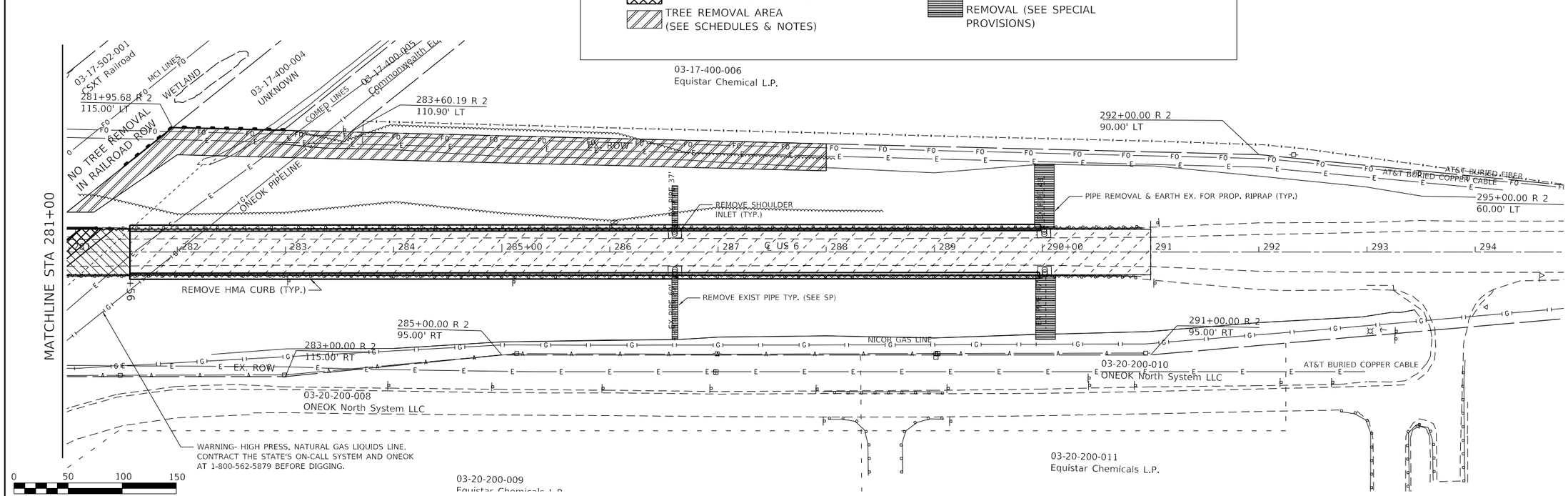
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	18
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		



REMOVAL LEGEND

- MILLING & RESURFACING
- PAVEMENT REMOVAL
- APPROACH SLAB REMOVAL
- TREE REMOVAL AREA (SEE SCHEDULES & NOTES)
- GUARDRAIL & SHOULDER STABILIZATION REMOVAL
- SUPERSTRUCTURE REMOVAL
- INLET BOX REMOVAL & PIPE REMOVAL (SEE SPECIAL PROVISIONS)



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	PLOT DATE = 8/19/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

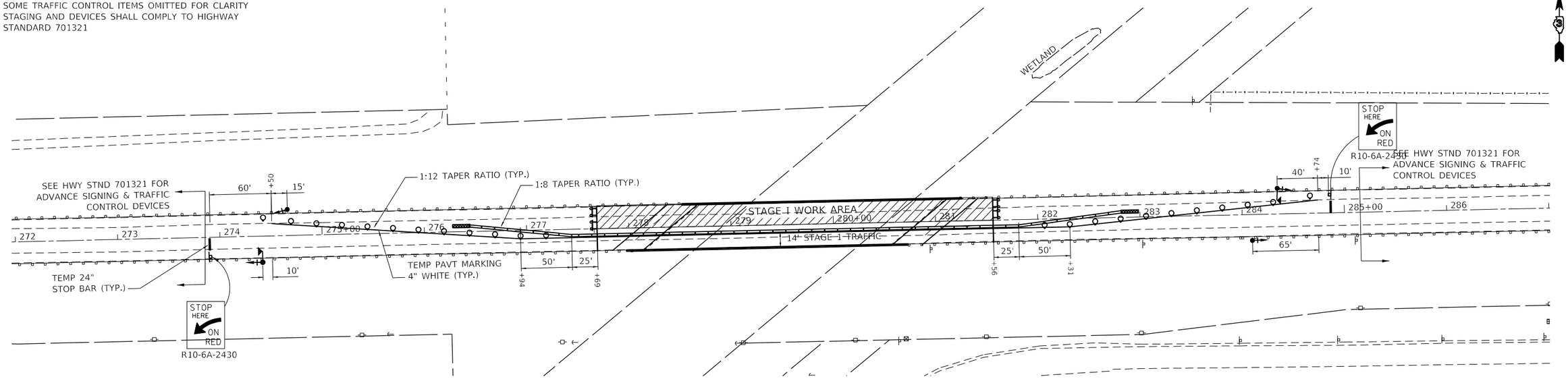
REMOVAL PLAN

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	19
		CONTRACT NO. 66E45		
		ILLINOIS FED. AID PROJECT		

STAGE 1 TRAFFIC CONTROL

SOME TRAFFIC CONTROL ITEMS OMITTED FOR CLARITY
STAGING AND DEVICES SHALL COMPLY TO HIGHWAY STANDARD 701321



0 50 100 150
SCALE IN FEET

SYMBOLS

- TEMP IMPACT ATTENUATOR
- WORK AREA
- SIGN
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TEMPORARY BARRIER WALL
- UTILITY POLE
- TRAFFIC SIGNAL WITH BACK PLATE
- MICROWAVE DETECTOR
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT (25' CENTERS)

GENERAL NOTES

THIS DETAIL IS USED WHERE, AT ANY TIME, ANY VEHICLE, EQUIPMENT, WORKERS, OR THEIR ACTIVITIES WILL ENCROACH ON ONE LANE OF A BRIDGE AND TRAFFIC SIGNALS ARE REQUIRED.

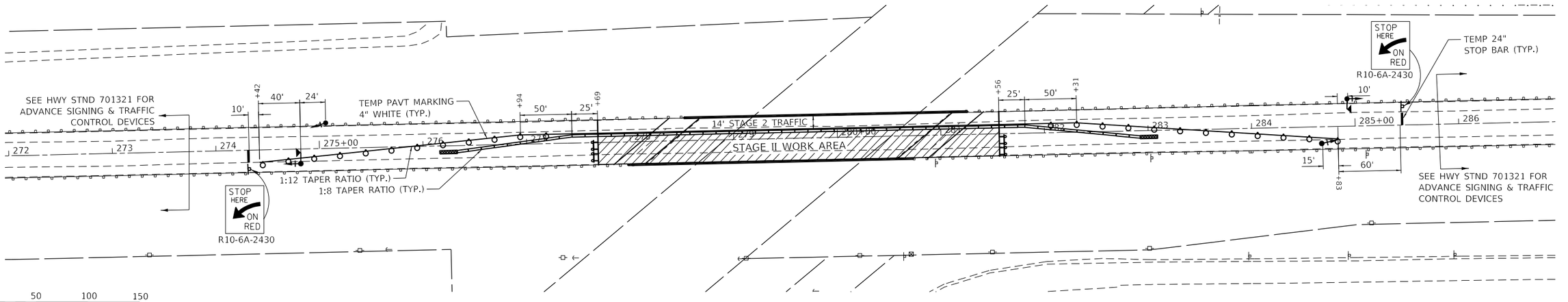
TRAFFIC SIGNALS SHALL BE OPERATIONAL ONLY WHEN ALL TRAFFIC CONTROLS ARE IN PLACE. WHEN TRAFFIC SIGNALS ARE NOT IN OPERATION, FLAGGERS SHALL BE USED AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO STANDARD 701201 OR 701206 AT NO COST TO THE DEPARTMENT.

SEE TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 FOR ADVANCED SIGNING DETAILS.

EXISTING OR TEMPORARY PAVEMENT MARKINGS SHALL BE ON BOTH SIDES OF OPEN LANE FROM STOP BAR TO STOP BAR.

STAGE 2 TRAFFIC CONTROL

SOME TRAFFIC CONTROL ITEMS OMITTED FOR CLARITY
STAGING AND DEVICES SHALL COMPLY TO HIGHWAY STANDARD 701321



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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/19/2020	DATE -	REVISED -

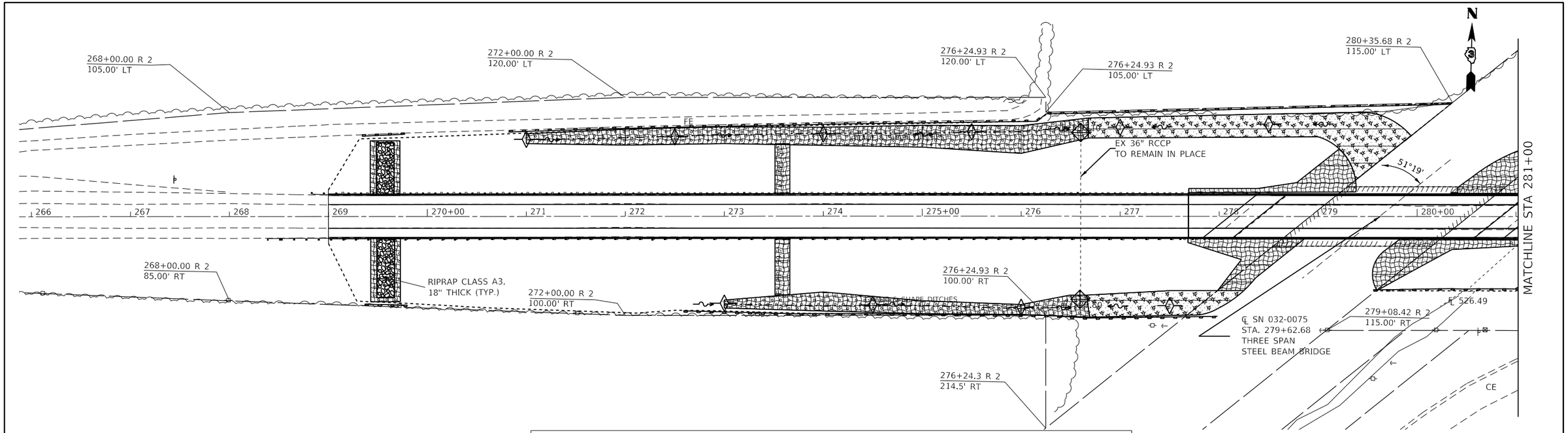
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

032-0075 STAGING & TEMP TRAFFIC SIGNALS
TC&P STANDARD 701321

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

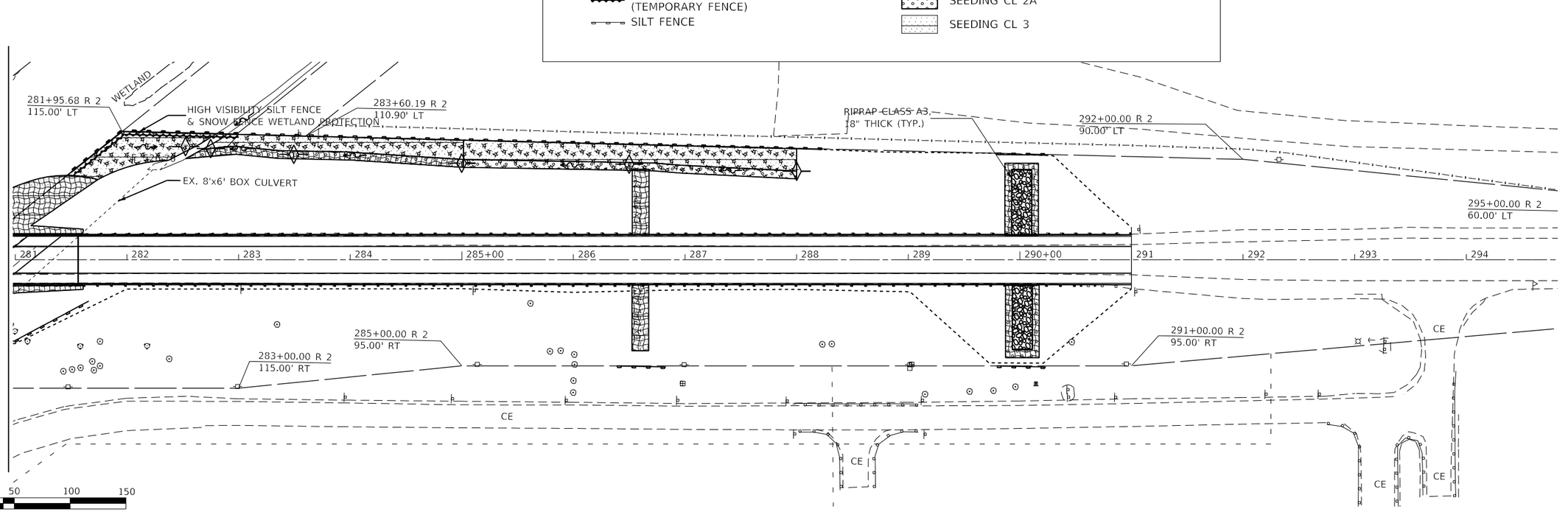
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	20

CONTRACT NO. 66E45
ILLINOIS FED. AID PROJECT



LANDSCAPING & EROSION CONTROL LEGEND

- EROSION CONTROL BLANKET
- MULCH METHOD, METHOD 2
- ORANGE SNOW FENCE (TEMPORARY FENCE)
- SILT FENCE
- TEMPORARY DITCH CHECK
- INLET & PIPE PROTECTION
- SEEDING CL 2A
- SEEDING CL 3



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	PLOT DATE = 8/19/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL & LANDSCAPING PLAN

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	21
		CONTRACT NO. 66E45		
	ILLINOIS FED. AID PROJECT			

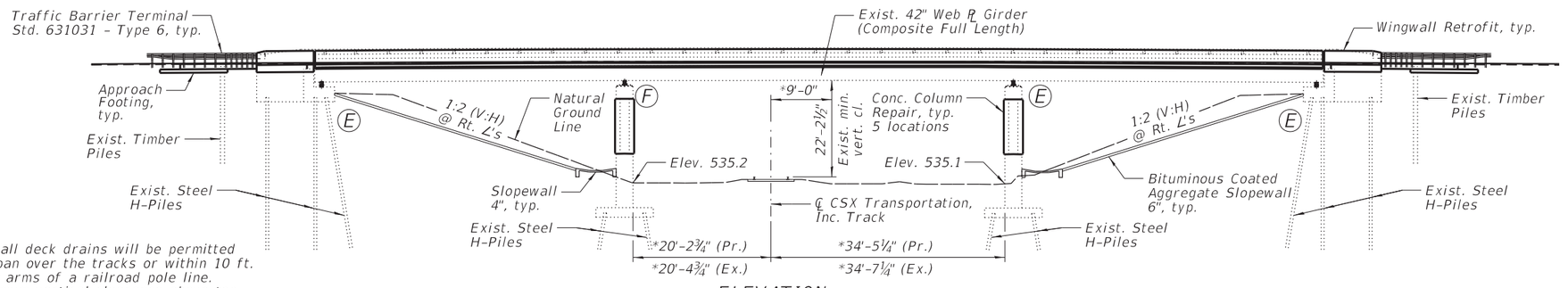
Benchmarks: BM 8, Chiseled " □ " in South wingwall of West Abutment of SN 032-0075. Elevation = 566.39, Station 278+15.34, 22.39' RT.

Existing Structure: Structure No. 032-0075 was originally constructed in 1974 as Section G-VB. In 1991, the abutment bearings were replaced. In 2004, deck repairs, expansion joint reconstruction, and substructure concrete repairs were completed. In 2014, emergency repairs were completed to the deck wearing surface. The superstructure consists of three-span continuous, composite steel plate girders with an 8" cast-in-place concrete deck and a 2½" bituminous wearing surface. The substructure consists of stub abutments supported by driven steel piles and multi-column piers supported by driven steel piles. Wood piles are present at the original approach slab bents. The back-to-back of abutments length measures 244'-0" and the out-to-out of deck width measures 46'-0". The span lengths are 71'-9", 92'-0", and 71'-9". The structure is skewed 51°19'00" left forward. One lane of traffic will be maintained utilizing stage construction.

No salvage.

SCOPE OF WORK

1.) Maintain one lane of traffic utilizing stage construction.
2.) Remove and replace the existing concrete deck and expansion joints.
3.) Remove and replace the existing bearings at the abutments and at the pier fascia girders.
4.) Remove and replace the existing concrete approach pavement.
5.) Full clean and paint the existing structural steel and bearings.
6.) Retrofit the existing wing walls to attach to Traffic Barrier Terminal, Type 6.
7.) Concrete column repairs at the piers.
8.) Remove and replace the existing concrete slope wall.



ELEVATION

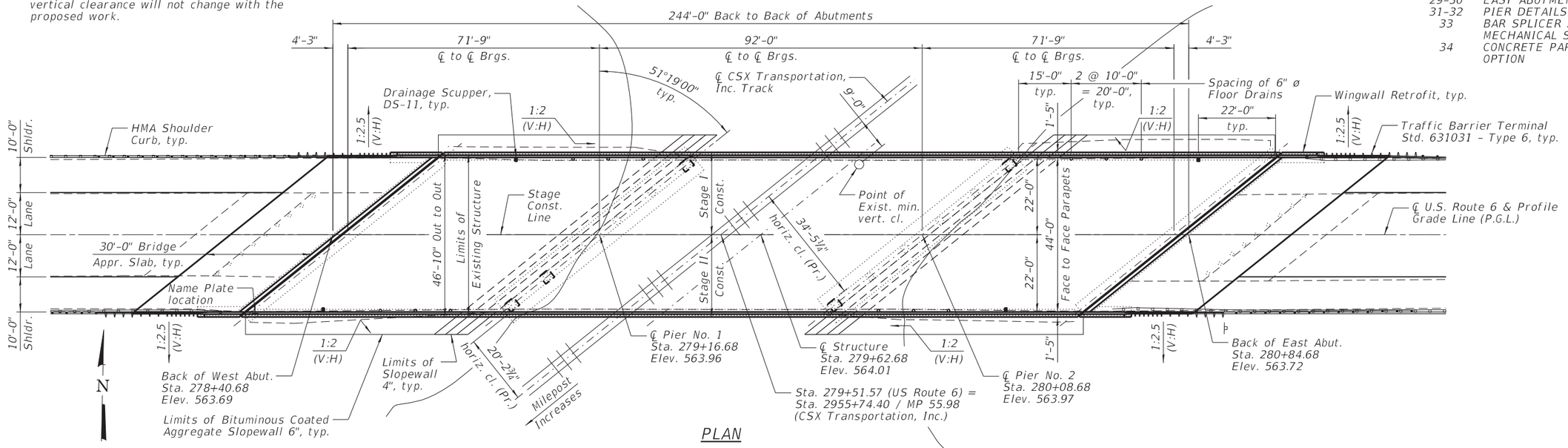
*Dimensions @ Rt. ℄'s to Track

NOTES:

1.) No freefall deck drains will be permitted in the span over the tracks or within 10 ft. of cross arms of a railroad pole line.
2.) The minimum vertical clearance above top of rail within a 9'-0" offset from centerline of tracks is 22'-2½". The existing minimum vertical clearance will not change with the proposed work.

INDEX OF SHEETS

SHEET NO.	TITLE
1	GENERAL PLAN AND ELEVATION
2-3	GENERAL DATA
4	STAGE CONSTRUCTION DETAILS
5	TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
6	TOP OF DECK ELEVATION LOCATIONS
7-10	TOP OF DECK ELEVATIONS
11-12	TOP OF APPROACH SLAB ELEVATIONS
13-15	SUPERSTRUCTURE
16	SUPERSTRUCTURE DETAILS
17-18	BRIDGE APPROACH SLAB DETAILS
19	PREFORMED JOINT STRIP SEAL
20	DRAINAGE SCUPPER, DS-11
21-22	STRUCTURAL STEEL
23-24	BEARING DETAILS
25	WEST ABUTMENT REMOVAL
26-27	WEST ABUTMENT
28	EAST ABUTMENT REMOVAL
29-30	EAST ABUTMENT
31-32	PIER DETAILS
33	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
34	CONCRETE PARAPET SLIPFORMING OPTION



PLAN

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

LOADING HS20-44

Allow 25#/sq. ft. for future wearing surface

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.040
Site Coefficient (S) = 1.0

EXISTING DESIGN STRESSES

FIELD UNITS:

fc = 1,400 psi (Substructure, Curb, and Parapet)
fc = 1,200 psi (Deck)
fs = 20,000 psi (Reinforcement)
fs = 20,000 psi (Structural Steel, A36)
vc = 75 psi (Footings)
n = 10

PROPOSED DESIGN STRESSES

FIELD UNITS:

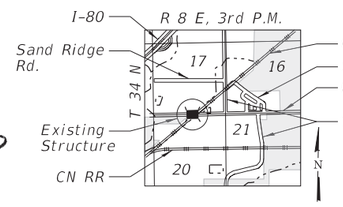
f'c = 3,500 psi
f'c = 4,000 psi (Superstructure Concrete)
fy = 60,000 psi (Reinforcement)

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

LICENSED STRUCTURAL ENGINEER
JOHN C. ZEMAN
081-007515
STATE OF ILLINOIS

Date 07/17/20

JOHN C. ZEMAN
ILLINOIS STRUCTURAL ENGINEER
NO. 081-007515
Exp. Date 11/30/20



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
U.S. ROUTE 6 OVER
CSX TRANSPORTATION, INC.
F.A.U. 392 - SECTION (G)VB-1
GRUNDY COUNTY
STATION 279+62.68
STRUCTURE NO. 032-0075

Farnsworth GROUP
2709 McGRAW DRIVE
BLOOMINGTON, ILLINOIS 61704
(309) 663-8435 / Info@f-w.com

	DESIGNED - PMG/AJD	REVISED	
	CHECKED - DAH	REVISED	
	DRAWN - DJM	REVISED	
DATE - 07/17/2020	CHECKED - JCZ	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS
NO. 032-0075
SHEET NO. 1 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	22
		CONTRACT NO. 66E45		
	ILLINOIS FED. AID PROJECT			

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.		18.6	18.6
Slope Wall Removal	Sq. Yd.		918	918
Removal of Existing Concrete Deck	Each	1		1
Protective Shield	Sq. Yd.	511		511
Floor Drains	Each	12		12
Concrete Structures	Cu. Yd.	44.4	12.4	56.8
Concrete Superstructure	Cu. Yd.	382.1	20.8	402.9
Bridge Deck Grooving	Sq. Yd.	1,391		1,391
Protective Coat	Sq. Yd.	1,686	40	1,726
Concrete Superstructure (Approach Slab)	Cu. Yd.	124.2		124.2
Furnishing and Erecting Structural Steel	Pound	4,460		4,460
Stud Shear Connectors	Each	1,386		1,386
Cleaning and Painting Steel Bridge No. 1	L Sum	1		1
Reinforcement Bars, Epoxy Coated	Pound	150,540	3,770	154,310
Bar Splicers	Each	966	8	974
Slope Wall 4 Inch	Sq. Yd.		121	121
Name Plates	Each	1		1
Preformed Joint Strip Seal	Foot	145		145
Elastomeric Bearing Assembly, Type I	Each	12		12
Anchor Bolts, 1"	Each	40		40
Temporary Shoring	Each		5	5
Jack and Remove Existing Bearings	Each	16		16
Containment and Disposal of Lead Paint Cleaning Residues	L Sum	1		1
Drainage Scuppers, DS-11	Each	4		4
Bituminous Coated Aggregate Slopewall, 6"	Sq. Yd.		820	820

GENERAL NOTES:

1.) All new fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts 3/4" ø, open holes 13/16" ø, unless otherwise noted.
2.) No field welding is permitted except as specified in the contract documents.
3.) Reinforcement bars designated (E) shall be epoxy coated.
4.) Prior to pouring the new concrete deck, all heavy or loose rust, mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.
As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding 1/4 in. deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.
5.) If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior girder at each of these additional bracket locations.
6.) Plan Dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering materials. Such variations shall not be cause for additional compensation for a change in scope of work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
7.) The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
8.) Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All existing steel shall be cleaned per Near White Blast Cleaning – SSPC-SP10. All existing steel shall be painted according to the requirements of Paint System 1 – OZ/E/U.
   a.) The finish coat for all interior structural steel shall be Gray, Munsell No. 5B 7/1.
   b.) The finish coat for exterior face, bottom flange, and bearing assemblies of the fascia beams shall be Green, Munsell No. 7.5G 4/8.
9.) Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
10.) A minimum of two air monitors will be required to monitor abrasive blasting operations at this site. See Special Provision for "Containment and Disposal of Lead Paint Cleaning Residues".
11.) SSPC QP1 and SSPC QP2 Certification is required for this Contract.
12.) All new structural steel shall be shop painted with an inorganic zinc rich primer per AASHTO M 300, Type 1.
13.) Refer to the CSX Transportation (CSXT) Public Project Information Manual for additional requirements needed for working on/above/adjacent to CSXT. Specific sections that pertain to this project are: Special Provisions for Construction near CSXT Property, Overhead Bridge Criteria, Construction Submission Criteria, and Insurance Requirements for Public Projects.
14.) At project completion, Agency or its Contractor shall submit a set of "As-Built" plans for the proposed bridge construction and any work performed on the CSXT right-of-way. Please forward plans to CSX's authorized Representative.
15.) Contractor access will be limited to the immediate project area only. The CSXT right-of-way outside the project area may not be used for contractor access to the project site and no temporary at-grade crossings will be allowed.
16.) Filter fabric to be installed over the track and ballast to prevent any construction debris from fouling the ballast. Fabric to remain in place until all construction activities are complete.
17.) The Contractor may not use CSXT right-of-way for storage of materials or equipment during construction without prior CSXT approval. The CSXT right-of-way must remain clear for railroad use at all times. Equipment may not be positioned to block the railroad access road, track area or any part of the CSXT right-of-way without prior CSXT approval.
18.) Temporary Construction Clearance – Ensure all falsework, bracing or forms have a minimum horizontal clearance of 12 feet measured perpendicular to the centerline of the nearest track, and a minimum vertical clearance of 22 feet as measured from the top of rail profile.
19.) The Contractor will be required to abide by the provisions of the Agency/CSXT Construction Agreement. Periodically, throughout the project duration, the Contractor will be required to meet, discuss and, if necessary, take immediate action at the discretion of CSXT personnel and/or their authorized Representative, to comply with provisions of that agreement and these specifications.
20.) Upon completion of the work on CSXT property, the Contractor shall request the Owner to arrange a final inspection of the project with the Railroad's Project Engineer or his authorized Representative.
21.) All waste materials generated by this project, including but not limited to washing with cleaning solvents, blasting, scraping, brushing and painting operations, shall be the responsibility of the Project Sponsor or its Contractor and shall be contained, collected and properly disposed of by the Project Sponsor or its Contractor. The Project Sponsor and its Contractor agree to fully comply with all federal, state, and local environmental laws, regulations, statutes and ordinances at all times.
22.) Contractor will be required to install falsework/demolition shield protection from pier to pier in the span directly over the CSXT Railroad. The falsework/demolition shield protection will be installed prior to the deck being penetrated and will stay in place for the duration of the construction activities. The falsework/demolition shield shall be designed and constructed in accordance to CSX's Construction Submission Criteria.

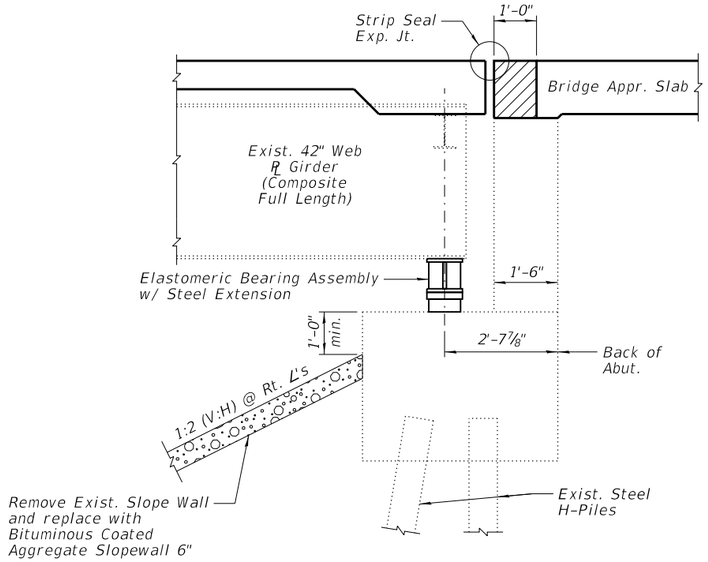
Farnsworth GROUP
2709 McGRAW DRIVE
BLOOMINGTON, ILLINOIS 61704
(309) 663-8435 / Info@f-w.com

	DESIGNED - AJD	REVISED JCZ 12/01/2020
	CHECKED - DAH	REVISED
	DRAWN - DJM	REVISED
DATE - 07/17/2020	CHECKED - JCZ	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

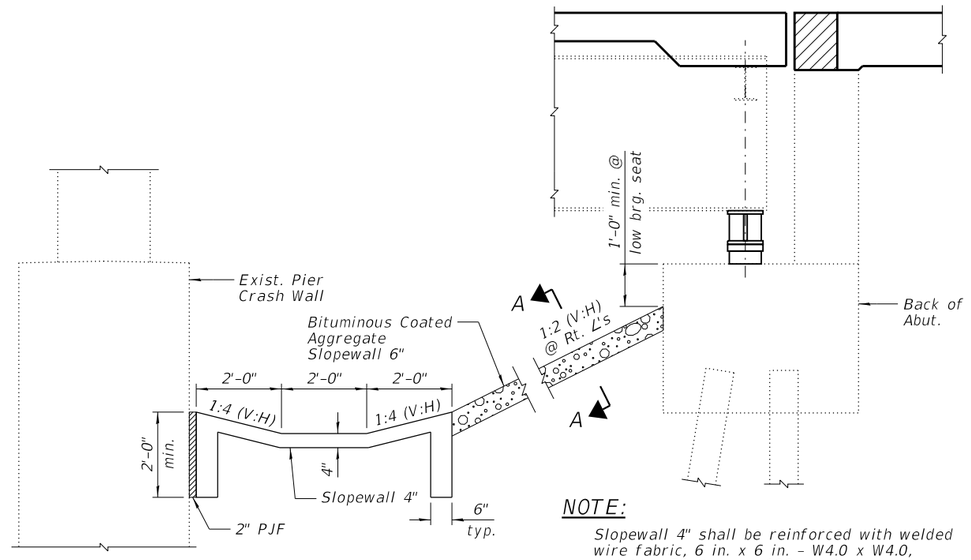
GENERAL DATA
STRUCTURE NO. 032-0075
SHEET NO. 2 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	23
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		



SECTION THRU ABUTMENT

(Horizontal dimensions @ Rt. ℄'s)

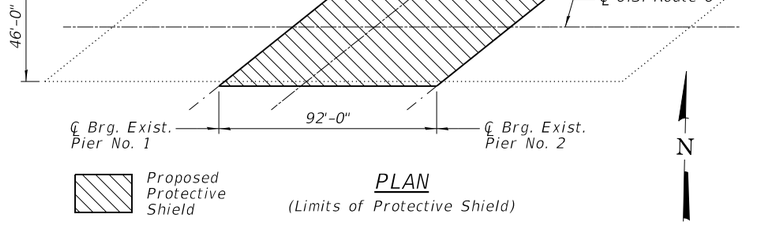


NOTE:

Slopewall 4" shall be reinforced with welded wire fabric, 6 in. x 6 in. - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.

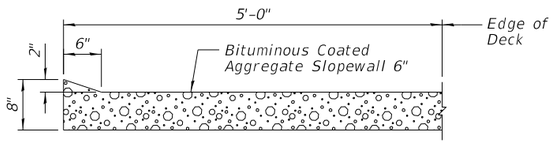
SECTION THRU SLOPEWALL

(Horizontal dimensions @ Rt. ℄'s)

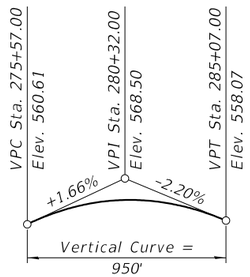


PLAN

(Limits of Protective Shield)

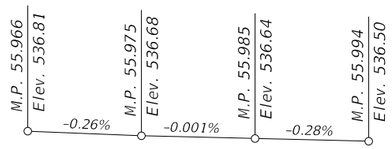


SECTION A-A



PROFILE GRADE

(Along ℄ Roadway)



CSX TRANSPORTATION, INC.
TRACK PROFILE GRADE

(Top of rail along West rail)

STATION 279+62.68
RE-BUILT 20__ BY
STATE OF ILLINOIS
F.A.U. RT. 392 SEC. (G)VB-1
LOADING HS20-44
STRUCTURE NO. 032-0075

NAME PLATE

See Std. 515001

The Existing Name Plate shall be cleaned and relocated next to the new Name Plate. Cost included with Name Plates.

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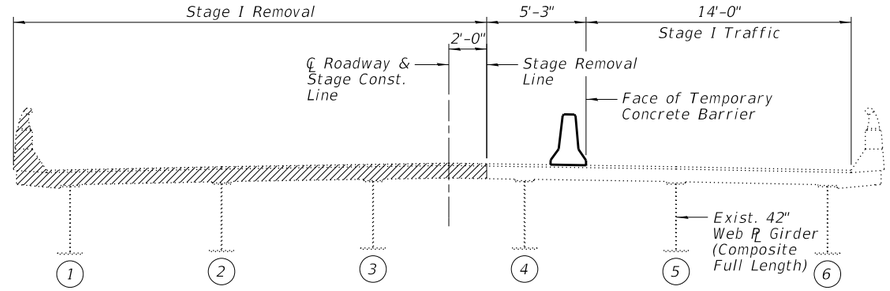
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

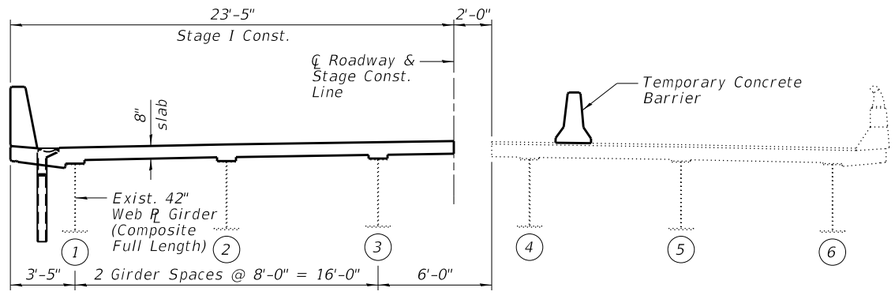
GENERAL DATA
STRUCTURE NO. 032-0075
SHEET NO. 3 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	24
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		



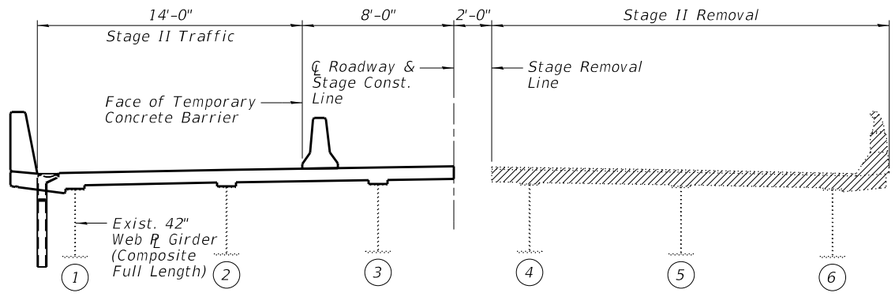
STAGE I REMOVAL

(Looking East)



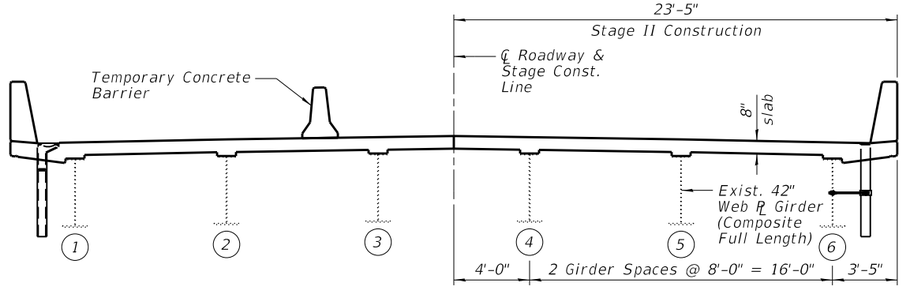
STAGE I CONSTRUCTION

(Looking East)



STAGE II REMOVAL

(Looking East)



STAGE II CONSTRUCTION

(Looking East)

Removal of Existing Concrete Deck

NOTE:

See Sheet 5 of 34 for Temporary Concrete Barrier.
See roadway plans for quantity.

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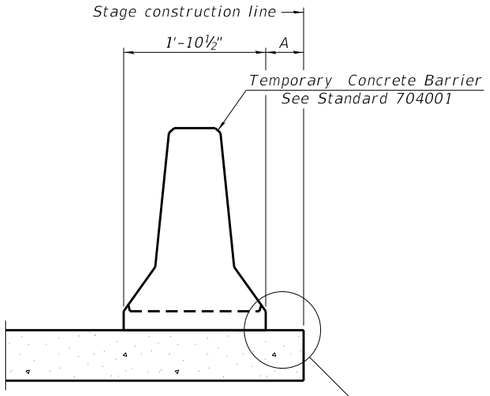
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 032-0075

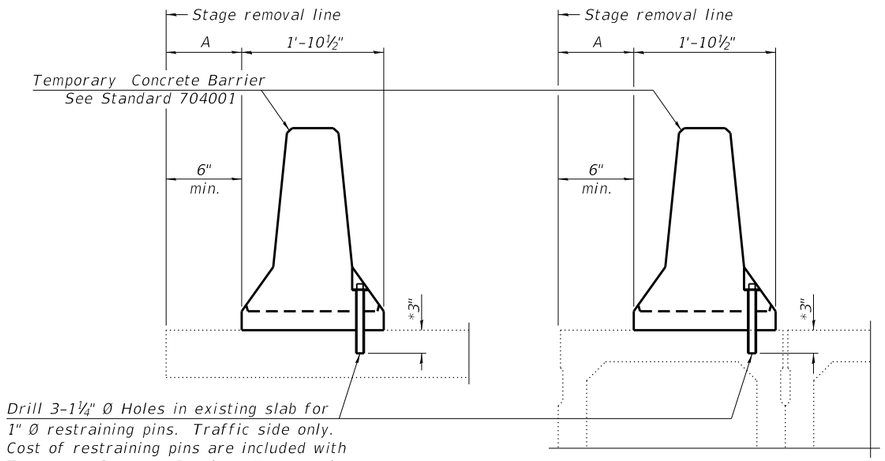
SHEET NO. 4 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	25
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM

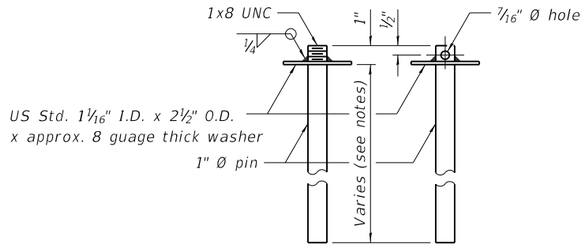


Drill 3-1¼" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

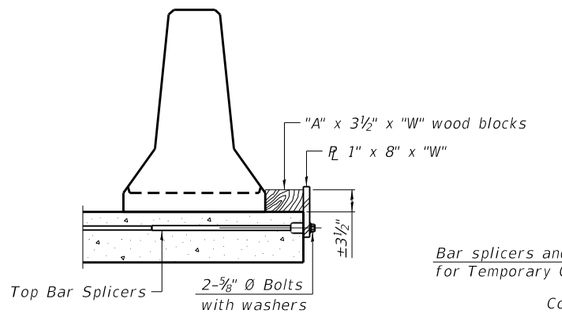
* When hot-mix asphalt wearng surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

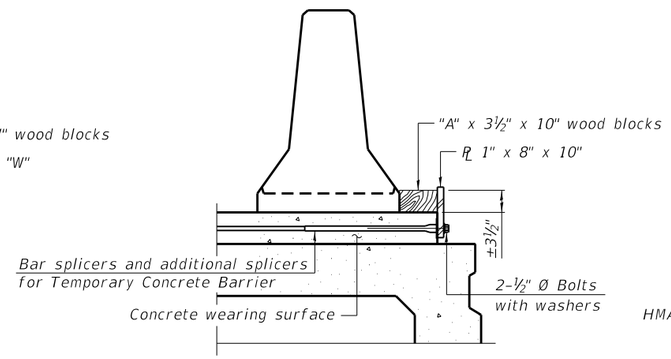


RESTRAINING PIN

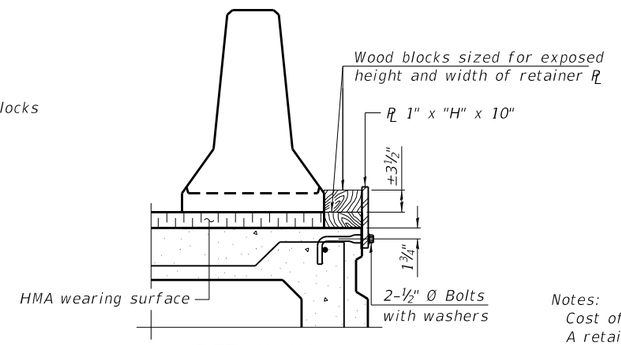
SECTIONS THRU SLAB OR DECK BEAM



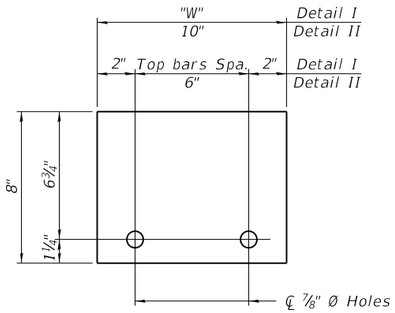
DETAIL I



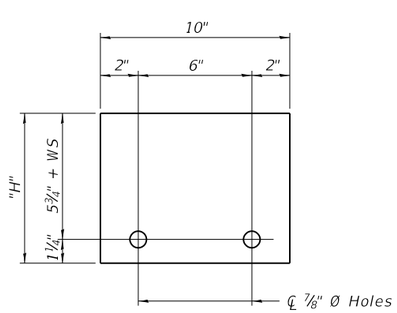
DETAIL II



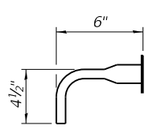
DETAIL III



STEEL RETAINER PL 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER PL 1" x "H" x 10"
(Detail III)



BAR SPLICER FOR #4 BAR - DETAIL III

Notes:

Cost of retainer assembly is included with Temporary Concrete Barrier.

A retainer assembly shall be located at the approximate ℄ of each temporary concrete barrier.

The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.

When the 'A' dimension is less than 1½", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

R-27

2-17-2017

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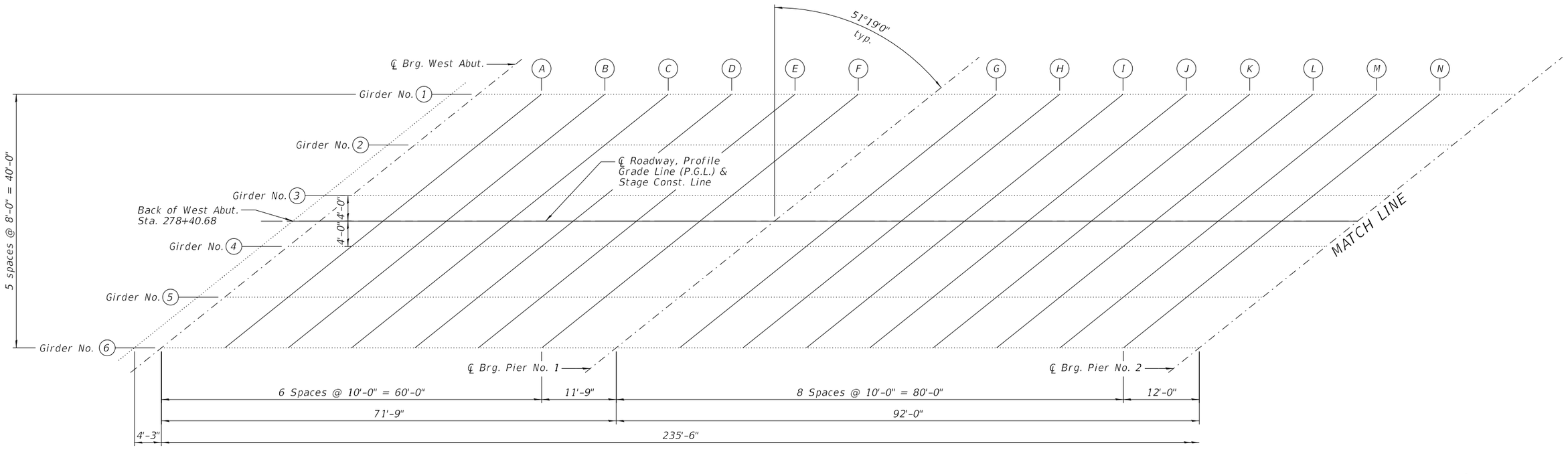
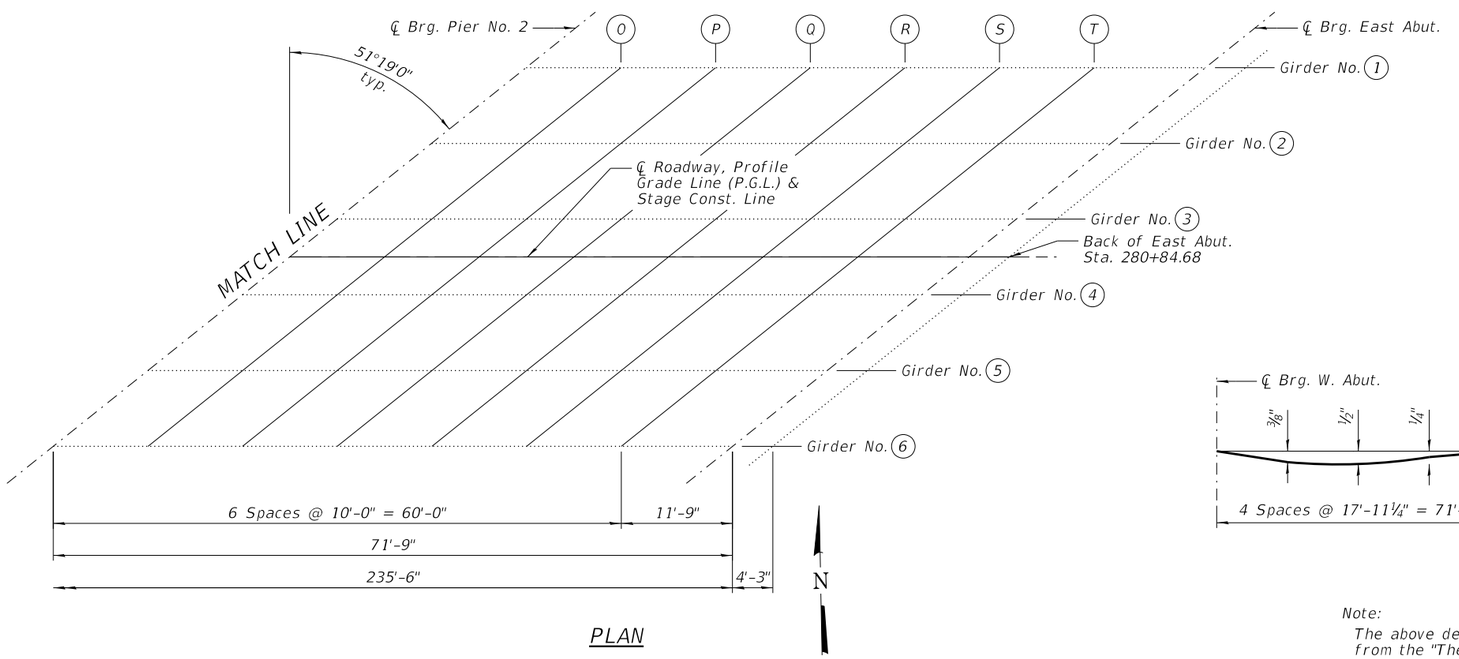
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

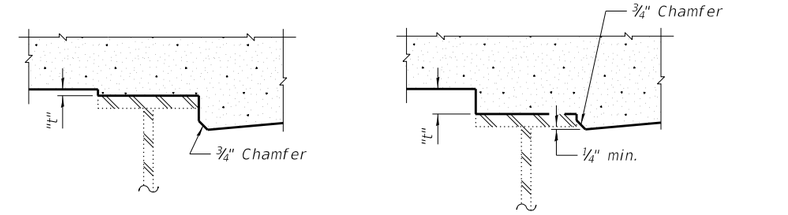
TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 032-0075
SHEET NO. 5 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	26
		CONTRACT NO. 66E45		
		ILLINOIS	FED. AID PROJECT	





PLAN

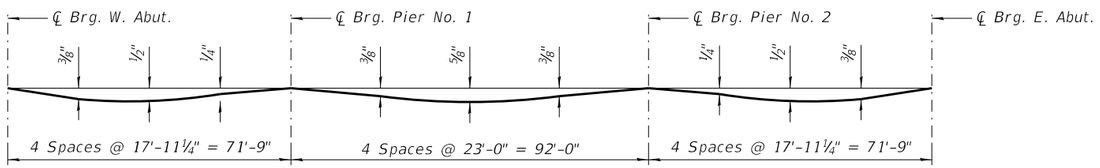


At Minimum Fillet

At Maximum Fillet

To determine "t": After the existing deck has been removed and bearing replacement has been completed, elevations of the top flanges of the girders shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheets 7-10 of 34, minus slab thickness, equals the fillet heights "t" above top flange of girders.

FILLET HEIGHTS



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the Engineer is working from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection", as shown on Sheets 7-10 of 34.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATION LOCATIONS
STRUCTURE NO. 032-0075
SHEET NO. 6 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	27
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of West Abut.	278+65.66	-20.00	563.46	563.46
℄ Brg. West Abut.	278+69.91	-20.00	563.48	563.48
A	278+79.91	-20.00	563.52	563.54
B	278+89.91	-20.00	563.55	563.59
C	278+99.91	-20.00	563.58	563.62
D	279+09.91	-20.00	563.60	563.64
E	279+19.91	-20.00	563.62	563.65
F	279+29.91	-20.00	563.64	563.65
℄ Brg. Pier No. 1	279+41.66	-20.00	563.66	563.66
G	279+51.66	-20.00	563.66	563.67
H	279+61.66	-20.00	563.67	563.69
I	279+71.66	-20.00	563.67	563.71
J	279+81.66	-20.00	563.66	563.72
K	279+91.66	-20.00	563.65	563.71
L	280+01.66	-20.00	563.64	563.69
M	280+11.66	-20.00	563.63	563.65
N	280+21.66	-20.00	563.61	563.62
℄ Brg. Pier No. 2	280+33.66	-20.00	563.58	563.58
O	280+43.66	-20.00	563.55	563.55
P	280+53.66	-20.00	563.51	563.53
Q	280+63.66	-20.00	563.48	563.51
R	280+73.66	-20.00	563.43	563.48
S	280+83.66	-20.00	563.39	563.43
T	280+93.66	-20.00	563.34	563.36
℄ Brg. East Abut.	281+05.41	-20.00	563.27	563.27
Bk. of East Abut.	281+09.66	-20.00	563.25	563.25

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of West Abut.	278+55.67	-12.00	563.58	563.58
℄ Brg. West Abut.	278+59.92	-12.00	563.60	563.60
A	278+69.92	-12.00	563.64	563.66
B	278+79.92	-12.00	563.68	563.72
C	278+89.92	-12.00	563.71	563.75
D	278+99.92	-12.00	563.74	563.78
E	279+09.92	-12.00	563.76	563.79
F	279+19.92	-12.00	563.78	563.79
℄ Brg. Pier No. 1	279+31.67	-12.00	563.80	563.80
G	279+41.67	-12.00	563.82	563.82
H	279+51.67	-12.00	563.82	563.85
I	279+61.67	-12.00	563.83	563.87
J	279+71.67	-12.00	563.83	563.88
K	279+81.67	-12.00	563.82	563.88
L	279+91.67	-12.00	563.81	563.86
M	280+01.67	-12.00	563.80	563.83
N	280+11.67	-12.00	563.79	563.80
℄ Brg. Pier No. 2	280+23.67	-12.00	563.76	563.76
O	280+33.67	-12.00	563.74	563.74
P	280+43.67	-12.00	563.71	563.73
Q	280+53.67	-12.00	563.67	563.71
R	280+63.67	-12.00	563.63	563.68
S	280+73.67	-12.00	563.59	563.63
T	280+83.67	-12.00	563.55	563.57
℄ Brg. East Abut.	280+95.42	-12.00	563.49	563.49
Bk. of East Abut.	280+99.67	-12.00	563.47	563.47

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATIONS
STRUCTURE NO. 032-0075
SHEET NO. 7 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	28
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of West Abut.	278+45.68	-4.00	563.65	563.65
℄ Brg. West Abut.	278+49.93	-4.00	563.67	563.67
A	278+59.93	-4.00	563.72	563.74
B	278+69.93	-4.00	563.76	563.80
C	278+79.93	-4.00	563.80	563.84
D	278+89.93	-4.00	563.83	563.87
E	278+99.93	-4.00	563.86	563.88
F	279+09.93	-4.00	563.88	563.89
℄ Brg. Pier No. 1	279+21.68	-4.00	563.91	563.91
G	279+31.68	-4.00	563.92	563.93
H	279+41.68	-4.00	563.94	563.96
I	279+51.68	-4.00	563.94	563.99
J	279+61.68	-4.00	563.95	564.00
K	279+71.68	-4.00	563.95	564.00
L	279+81.68	-4.00	563.94	563.99
M	279+91.68	-4.00	563.93	563.96
N	280+01.68	-4.00	563.92	563.93
℄ Brg. Pier No. 2	280+13.68	-4.00	563.90	563.90
O	280+23.68	-4.00	563.88	563.89
P	280+33.68	-4.00	563.86	563.88
Q	280+43.68	-4.00	563.83	563.86
R	280+53.68	-4.00	563.79	563.84
S	280+63.68	-4.00	563.75	563.80
T	280+73.68	-4.00	563.71	563.74
℄ Brg. East Abut.	280+85.43	-4.00	563.66	563.66
Bk. of East Abut.	280+89.68	-4.00	563.64	563.64

℄ ROADWAY, PROFILE GRADE LINE (P.G.L.) & STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of West Abut.	278+40.68	0.00	563.69	563.69
℄ Brg. West Abut.	278+44.93	0.00	563.71	563.71
A	278+54.93	0.00	563.76	563.78
B	278+64.93	0.00	563.80	563.84
C	278+74.93	0.00	563.84	563.88
D	278+84.93	0.00	563.87	563.91
E	278+94.93	0.00	563.91	563.93
F	279+04.93	0.00	563.93	563.94
℄ Brg. Pier No. 1	279+16.68	0.00	563.96	563.96
G	279+26.68	0.00	563.98	563.99
H	279+36.68	0.00	563.99	564.02
I	279+46.68	0.00	564.00	564.04
J	279+56.68	0.00	564.01	564.06
K	279+66.68	0.00	564.01	564.06
L	279+76.68	0.00	564.01	564.05
M	279+86.68	0.00	564.00	564.03
N	279+96.68	0.00	563.99	564.00
℄ Brg. Pier No. 2	280+08.68	0.00	563.97	563.97
O	280+18.68	0.00	563.95	563.96
P	280+28.68	0.00	563.93	563.95
Q	280+38.68	0.00	563.90	563.94
R	280+48.68	0.00	563.87	563.91
S	280+58.68	0.00	563.83	563.87
T	280+68.68	0.00	563.79	563.82
℄ Brg. East Abut.	280+80.43	0.00	563.74	563.74
Bk. of East Abut.	280+84.68	0.00	563.72	563.72

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATIONS
STRUCTURE NO. 032-0075
SHEET NO. 8 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	29
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of West Abut.	278+35.68	4.00	563.60	563.60
℄ Brg. West Abut.	278+39.93	4.00	563.62	563.62
A	278+49.93	4.00	563.67	563.70
B	278+59.93	4.00	563.72	563.76
C	278+69.93	4.00	563.76	563.80
D	278+79.93	4.00	563.80	563.83
E	278+89.93	4.00	563.83	563.85
F	278+99.93	4.00	563.86	563.87
℄ Brg. Pier No. 1	279+11.68	4.00	563.89	563.89
G	279+21.68	4.00	563.91	563.92
H	279+31.68	4.00	563.92	563.95
I	279+41.68	4.00	563.94	563.98
J	279+51.68	4.00	563.94	564.00
K	279+61.68	4.00	563.95	564.00
L	279+71.68	4.00	563.95	563.99
M	279+81.68	4.00	563.94	563.97
N	279+91.68	4.00	563.93	563.95
℄ Brg. Pier No. 2	280+03.68	4.00	563.92	563.92
O	280+13.68	4.00	563.90	563.91
P	280+23.68	4.00	563.88	563.90
Q	280+33.68	4.00	563.86	563.89
R	280+43.68	4.00	563.83	563.87
S	280+53.68	4.00	563.79	563.83
T	280+63.68	4.00	563.75	563.78
℄ Brg. East Abut.	280+75.43	4.00	563.71	563.71
Bk. of East Abut.	280+79.68	4.00	563.69	563.69

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of West Abut.	278+25.69	12.00	563.43	563.43
℄ Brg. West Abut.	278+29.94	12.00	563.45	563.45
A	278+39.94	12.00	563.50	563.53
B	278+49.94	12.00	563.55	563.59
C	278+59.94	12.00	563.60	563.64
D	278+69.94	12.00	563.64	563.68
E	278+79.94	12.00	563.68	563.70
F	278+89.94	12.00	563.71	563.72
℄ Brg. Pier No. 1	279+01.69	12.00	563.74	563.74
G	279+11.69	12.00	563.77	563.78
H	279+21.69	12.00	563.79	563.81
I	279+31.69	12.00	563.80	563.85
J	279+41.69	12.00	563.82	563.87
K	279+51.69	12.00	563.82	563.88
L	279+61.69	12.00	563.83	563.87
M	279+71.69	12.00	563.83	563.86
N	279+81.69	12.00	563.82	563.83
℄ Brg. Pier No. 2	279+93.69	12.00	563.81	563.81
O	280+03.69	12.00	563.80	563.81
P	280+13.69	12.00	563.78	563.80
Q	280+23.69	12.00	563.76	563.80
R	280+33.69	12.00	563.74	563.78
S	280+43.69	12.00	563.71	563.75
T	280+53.69	12.00	563.67	563.70
℄ Brg. East Abut.	280+65.44	12.00	563.63	563.63
Bk. of East Abut.	280+69.69	12.00	563.61	563.61

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	DRAWN - DJM	REVISED
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATIONS
STRUCTURE NO. 032-0075

SHEET NO. 9 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	30
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of West Abut.	278+15.70	20.00	563.21	563.21
℄ Brg. West Abut.	278+19.95	20.00	563.23	563.23
A	278+29.95	20.00	563.29	563.31
B	278+39.95	20.00	563.34	563.38
C	278+49.95	20.00	563.39	563.44
D	278+59.95	20.00	563.44	563.48
E	278+69.95	20.00	563.48	563.50
F	278+79.95	20.00	563.52	563.53
℄ Brg. Pier No. 1	278+91.70	20.00	563.56	563.56
G	279+01.70	20.00	563.58	563.59
H	279+11.70	20.00	563.61	563.63
I	279+21.70	20.00	563.63	563.67
J	279+31.70	20.00	563.64	563.70
K	279+41.70	20.00	563.66	563.71
L	279+51.70	20.00	563.66	563.71
M	279+61.70	20.00	563.67	563.70
N	279+71.70	20.00	563.67	563.68
℄ Brg. Pier No. 2	279+83.70	20.00	563.66	563.66
O	279+93.70	20.00	563.65	563.66
P	280+03.70	20.00	563.64	563.66
Q	280+13.70	20.00	563.62	563.66
R	280+23.70	20.00	563.60	563.64
S	280+33.70	20.00	563.58	563.62
T	280+43.70	20.00	563.55	563.57
℄ Brg. East Abut.	280+55.45	20.00	563.51	563.51
Bk. of East Abut.	280+59.70	20.00	563.49	563.49

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATIONS
STRUCTURE NO. 032-0075
SHEET NO. 10 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	31
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

NORTH CURB LINE / NORTH FACE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevation
W. End of West Appr.	278+38.96	-22.00	563.30
A	278+48.96	-22.00	563.35
B	278+58.96	-22.00	563.39
E. End of West Appr.	278+68.96	-22.00	563.44

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevation
W. End of West Appr.	278+26.47	-12.00	563.43
A	278+36.47	-12.00	563.49
B	278+46.47	-12.00	563.54
E. End of West Appr.	278+56.47	-12.00	563.58

℄ ROADWAY, PROFILE GRADE LINE (P.G.L.) & STAGE CONST. LINE

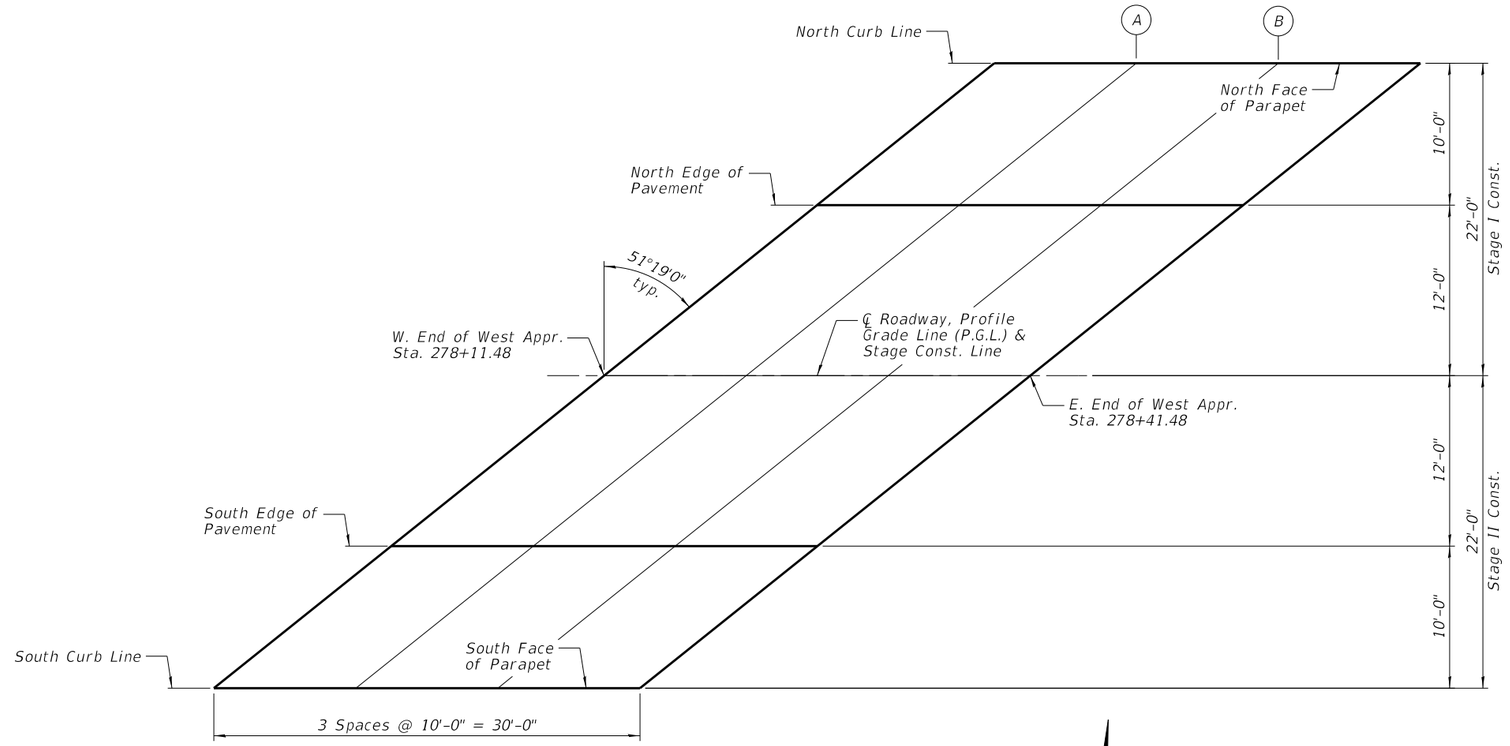
Location	Station	Offset	Theoretical Grade Elevation
W. End of West Appr.	278+11.48	0.00	563.52
A	278+21.48	0.00	563.58
B	278+31.48	0.00	563.64
E. End of West Appr.	278+41.48	0.00	563.69

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevation
W. End of West Appr.	277+96.49	12.00	563.24
A	278+06.49	12.00	563.31
B	278+16.49	12.00	563.37
E. End of West Appr.	278+26.49	12.00	563.43

SOUTH CURB LINE / SOUTH FACE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevation
W. End of West Appr.	277+84.00	22.00	562.95
A	277+94.00	22.00	563.03
B	278+04.00	22.00	563.09
E. End of West Appr.	278+14.00	22.00	563.16



WEST APPROACH SLAB PLAN

N

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DEPARTMENT OF TRANSPORTATION

TOP OF APPROACH SLAB ELEVATIONS
STRUCTURE NO. 032-0075

SHEET NO. 11 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	32
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

NORTH CURB LINE / NORTH FACE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevation
W. End of East Appr.	281+11.36	-22.00	563.20
A	281+21.36	-22.00	563.14
B	281+31.36	-22.00	563.07
E. End of East Appr.	281+41.36	-22.00	563.00

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevation
W. End of East Appr.	280+98.87	-12.00	563.47
A	281+08.87	-12.00	563.41
B	281+18.87	-12.00	563.35
E. End of East Appr.	281+28.87	-12.00	563.29

℄ ROADWAY, PROFILE GRADE LINE (P.G.L.) & STAGE CONST. LINE

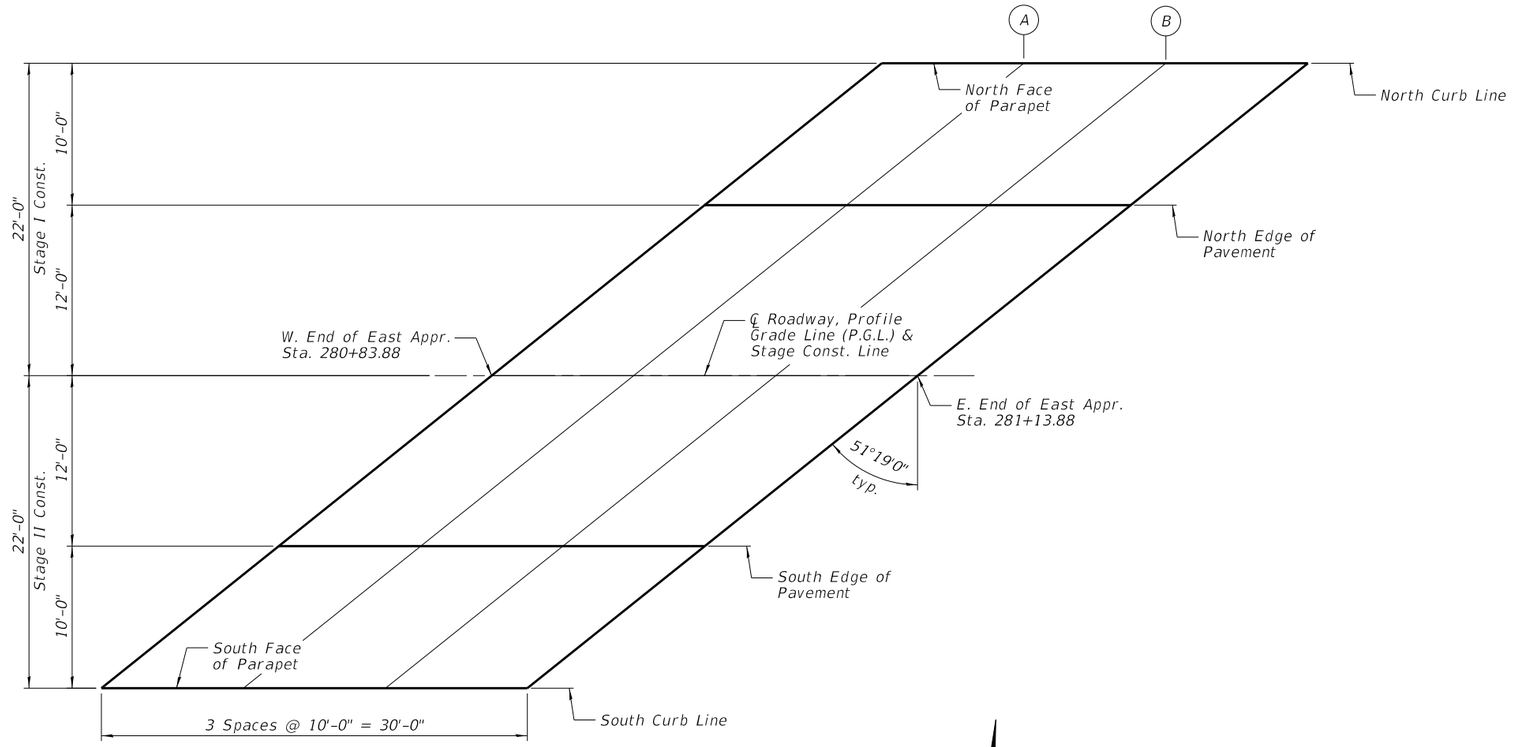
Location	Station	Offset	Theoretical Grade Elevation
W. End of East Appr.	280+83.88	0.00	563.73
A	280+93.88	0.00	563.68
B	281+03.88	0.00	563.62
E. End of East Appr.	281+13.88	0.00	563.56

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevation
W. End of East Appr.	280+68.89	12.00	563.61
A	280+78.89	12.00	563.57
B	280+88.89	12.00	563.52
E. End of East Appr.	280+98.89	12.00	563.47

SOUTH CURB LINE / SOUTH FACE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevation
W. End of East Appr.	280+56.40	22.00	563.46
A	280+66.40	22.00	563.42
B	280+76.40	22.00	563.38
E. End of East Appr.	280+86.40	22.00	563.33



EAST APPROACH SLAB PLAN

N

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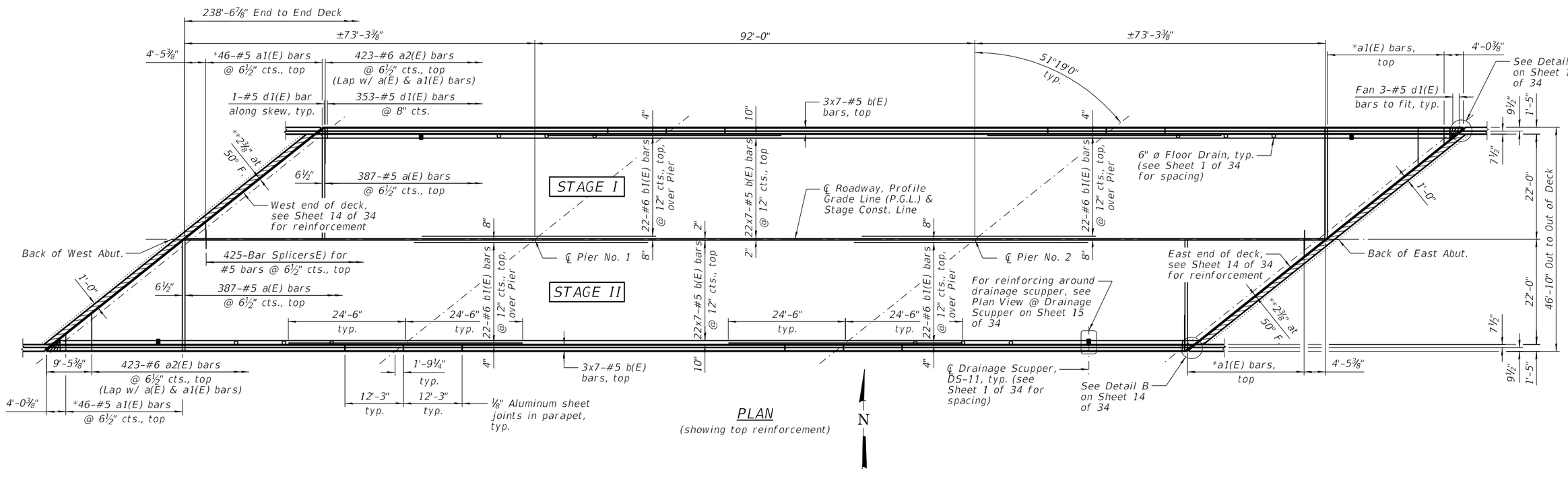
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF APPROACH SLAB ELEVATIONS
STRUCTURE NO. 032-0075

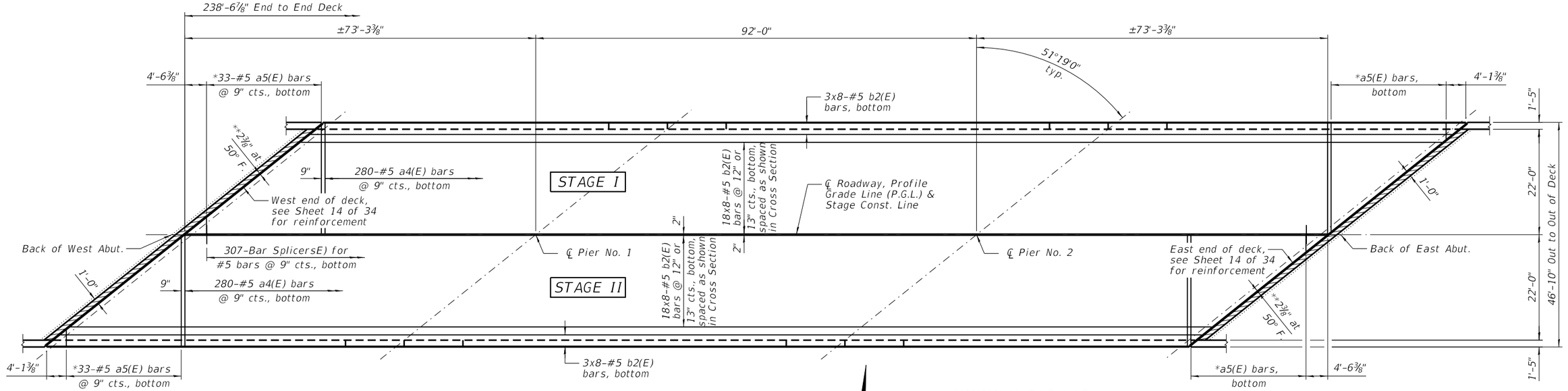
SHEET NO. 12 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	33
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		



PLAN
(showing top reinforcement)

N



PLAN
(showing bottom reinforcement)

N

MINIMUM BAR LAP

#5 bar = 3'-6"

LEGEND

Hatched area to be poured after superstructure forms have been removed. Quantity of concrete included with Concrete Superstructure.

NOTES:

1.) See Sheet 15 of 34 for Cross Section.
2.) *See Sheet 16 of 34 for Field Cutting Diagram.
3.) See Sheet 16 of 34 for Superstructure Details and Bill of Material.
4.) Bars indicated thus 22x7-#5 etc. indicates 22 lines of bars with 7 lengths per line.
5.) **Dimension showing concrete opening. For joint opening, see Sheet 19 of 34.
6.) See Sheet 33 of 34 for Bar Splicer Details.

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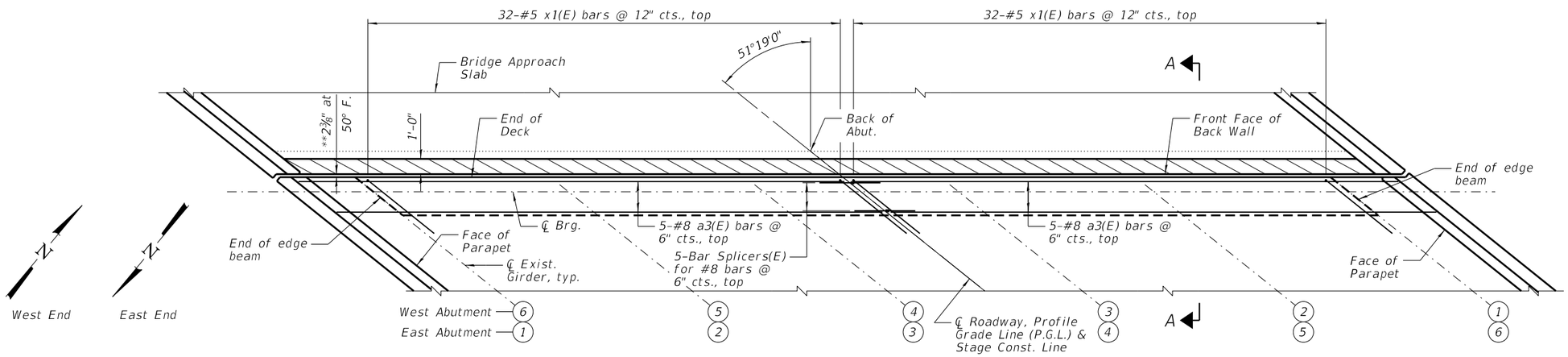
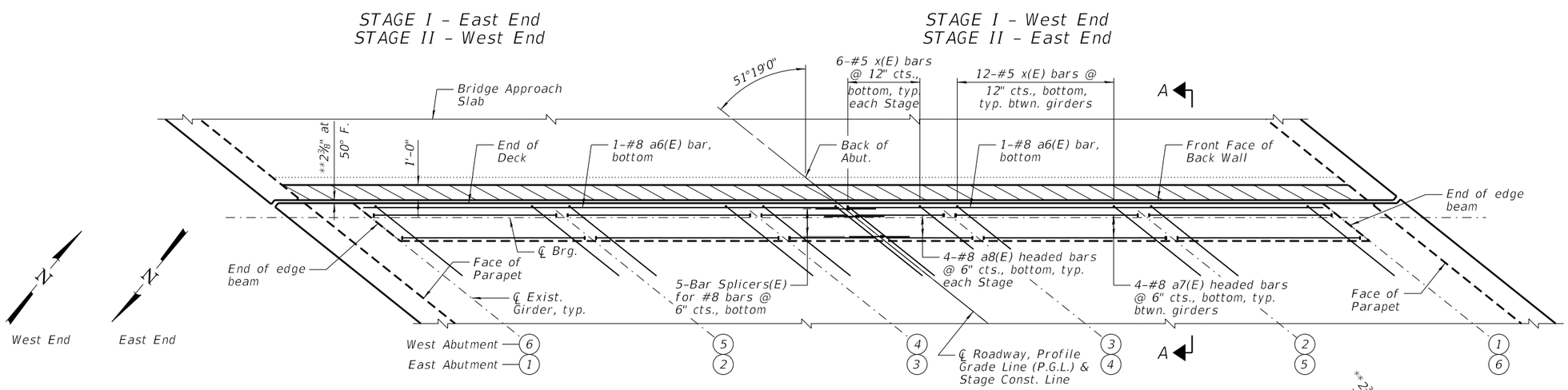
SUPERSTRUCTURE
STRUCTURE NO. 032-0075
SHEET NO. 13 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	34
		CONTRACT NO. 66E45		
		ILLINOIS	FED. AID PROJECT	



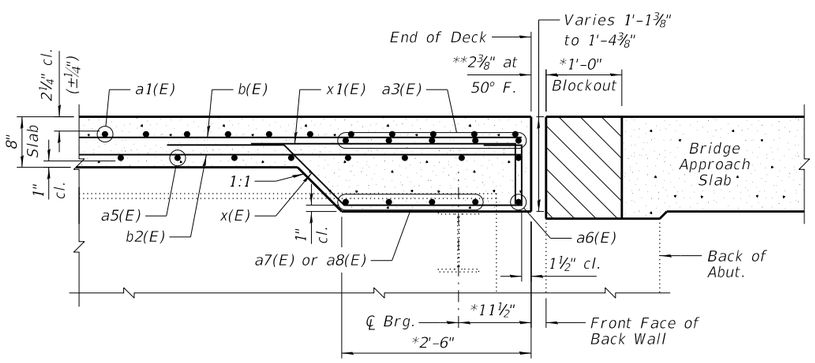
END OF DECK REINFORCEMENT PLAN

(showing top reinforcement)



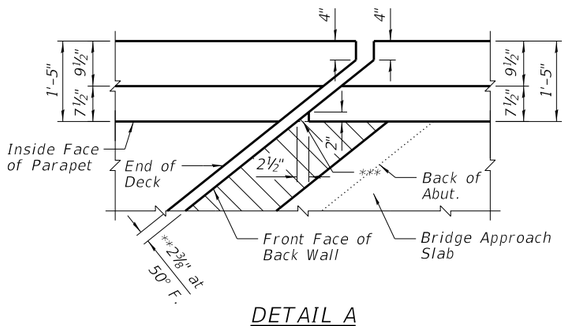
END OF DECK REINFORCEMENT PLAN

(showing bottom reinforcement)



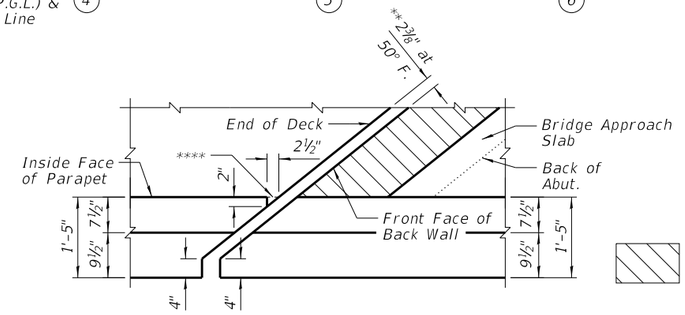
SECTION A–A

*Perpendicular to joint



DETAIL A

***Omitted during construction.
See Sheet 19 of 34 for point block details.



DETAIL B

****Omitted during construction.
See Sheet 19 of 34 for point block details.

LEGEND

Hatched area to be poured after superstructure forms have been removed. Quantity of concrete included with Concrete Superstructure.

NOTES:

1.) See Sheet 13 of 34 for complete Deck Plan and locations of Detail A and Detail B.
2.) See Sheet 15 of 34 for Cross Section.
3.) See Sheet 16 of 34 for Superstructure Details and Bill of Material.
4.) **Dimension showing concrete opening. For joint opening, see Sheet 19 of 34.
5.) See Sheet 33 of 34 for Bar Splicer Details.

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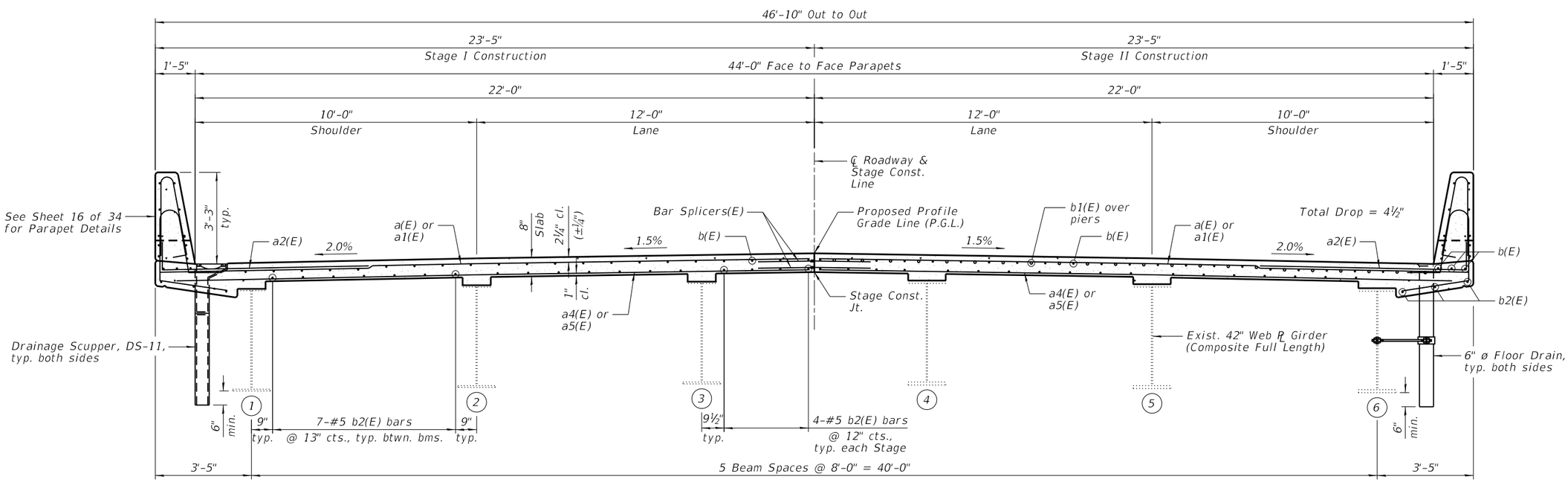
SUPERSTRUCTURE
STRUCTURE NO. 032–0075
SHEET NO. 14 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	35
		CONTRACT NO. 66E45		
		ILLINOIS	FED. AID PROJECT	

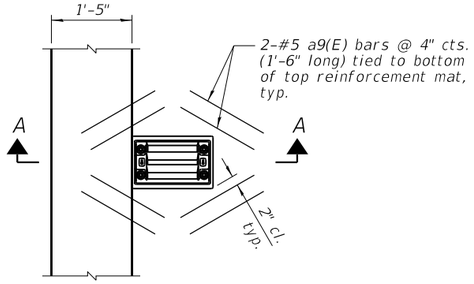


NEAR MIDSPAN

NEAR PIER

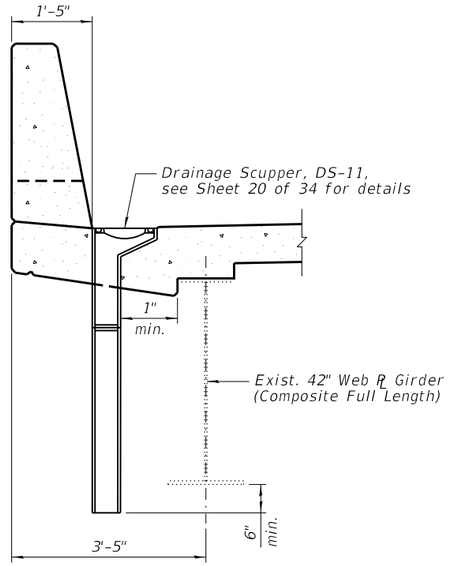
CROSS SECTION

(Looking East)



PLAN VIEW @ DRAINAGE SCUPPER

Note: Cut longitudinal reinforcement to clear drainage scuppers.



SECTION A-A

NOTES:

1.) See Sheet 13 of 34 for complete Deck Plan.
2.) See Sheet 16 of 34 for Superstructure Details and Bill of Material.
3.) See Sheet 33 of 34 for Bar Splicer Details.

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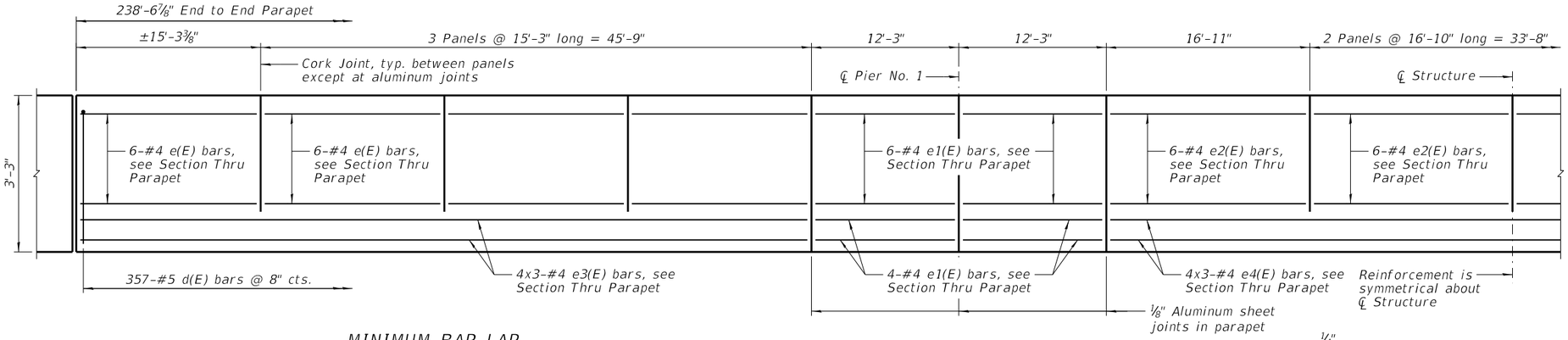
DEPARTMENT OF TRANSPORTATION

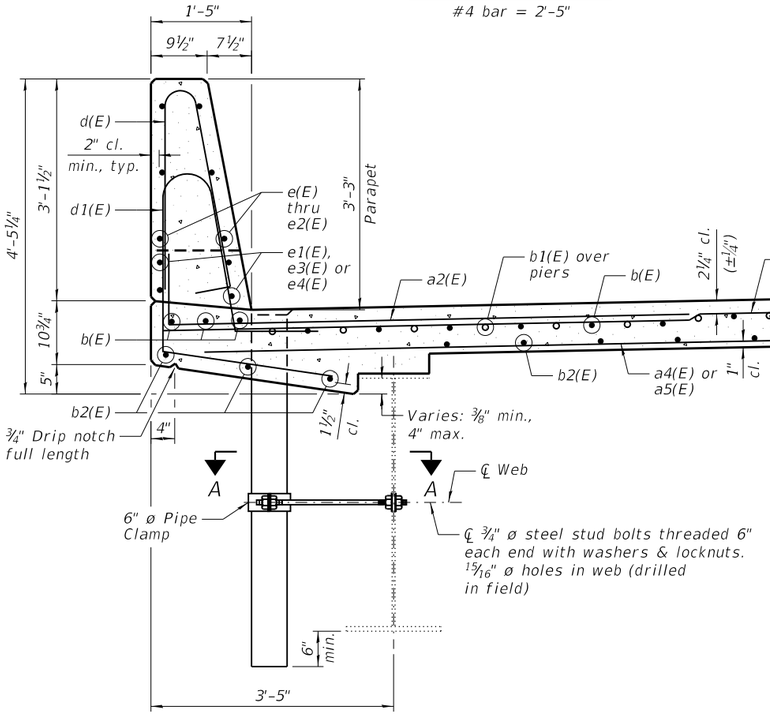
SUPERSTRUCTURE
STRUCTURE NO. 032-0075
SHEET NO. 15 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	36
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		



MINIMUM BAR LAP

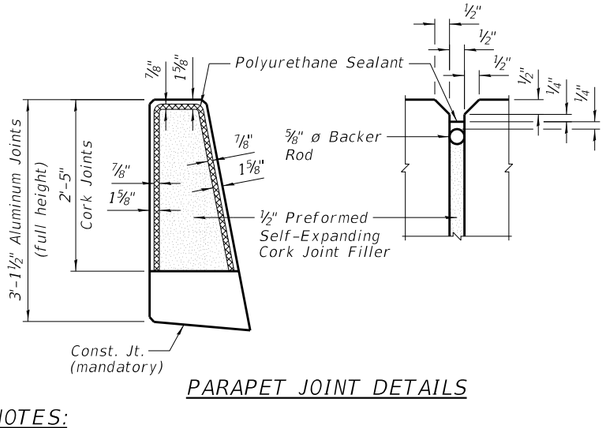
#4 bar = 2'-5"



SECTION THRU PARAPET

Drainage Scupper, DS-11 not shown, see Sheet 20 of 34 for details.

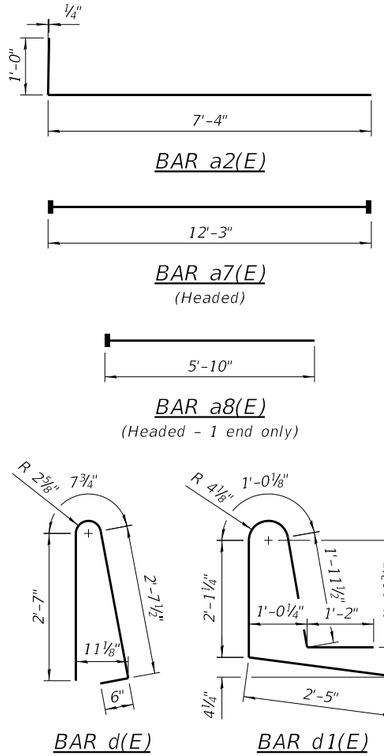
INSIDE ELEVATION OF PARAPET



PARAPET JOINT DETAILS

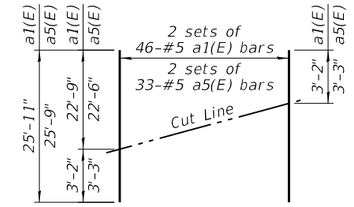
NOTES:

1.) Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
2.) The exterior surfaces of the floor drains shall be painted according to Article 506 with the finish coat as specified. The exterior surfaces of the drains shall be cleaned according to the Society of Protective Coating's Spec. SSPC-SP1 prior to painting.
3.) The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete.
4.) The clamping device shall be galvanized according to AASHTO M 232. Cost of clamping device included with Floor Drains.
5.) The ⅛" Aluminum sheet shall be ASTM B 209 Alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
6.) The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.
7.) Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.



NOTES:

1.) See Sheets 13 & 14 of 34 for Superstructure Deck.
2.) See Sheet 15 of 34 for Superstructure Cross Section.
3.) Inside Elevation of Parapet view is exaggerated vertically to show reinforcement.
4.) Bars indicated thus 4x3-#4 etc. indicates 4 lines of bars with 3 lengths per line.



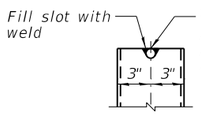
FIELD CUTTING DIAGRAM

Order a1(E) and a5(E) bars full length. Cut as shown and use remainder of bars in opposite end of deck in same Stage.

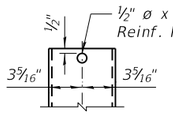
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	774	#5	23'-0"	
a1(E)	92	#5	26'-1"	
a2(E)	846	#6	8'-4"	
a3(E)	20	#8	35'-10"	
a4(E)	560	#5	22'-9"	
a5(E)	66	#5	25'-11"	
a6(E)	4	#8	31'-5"	
a7(E)	32	#8	12'-3"	
a8(E)	16	#8	5'-10"	
a9(E)	32	#5	1'-6"	
b(E)	350	#5	37'-2"	
b1(E)	88	#6	50'-0"	
b2(E)	336	#5	32'-10"	
d(E)	714	#5	6'-5"	
d1(E)	714	#5	8'-9"	
e(E)	96	#4	14'-11"	
e1(E)	80	#4	11'-11"	
e2(E)	48	#4	16'-8"	
e3(E)	48	#4	21'-10"	
e4(E)	24	#4	24'-0"	
x(E)	120	#5	8'-11"	
x1(E)	128	#5	6'-5"	

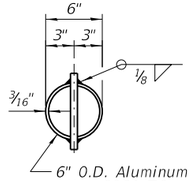
Item	Unit	Quantity
Concrete Superstructure	Cu. Yd.	382.1
Bridge Deck Grooving	Sq. Yd.	1,113
Protective Coat	Sq. Yd.	1,386
Reinforcement Bars, Epoxy Coated	Pound	98,540



ALUMINUM TUBE

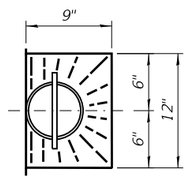


FIBERGLASS PIPE

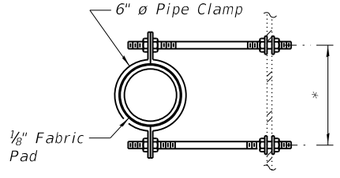


TOP PLAN

(Showing Aluminum Tube)



TOP PLAN



SECTION A-A

* Dimension as required by Pipe Clamp

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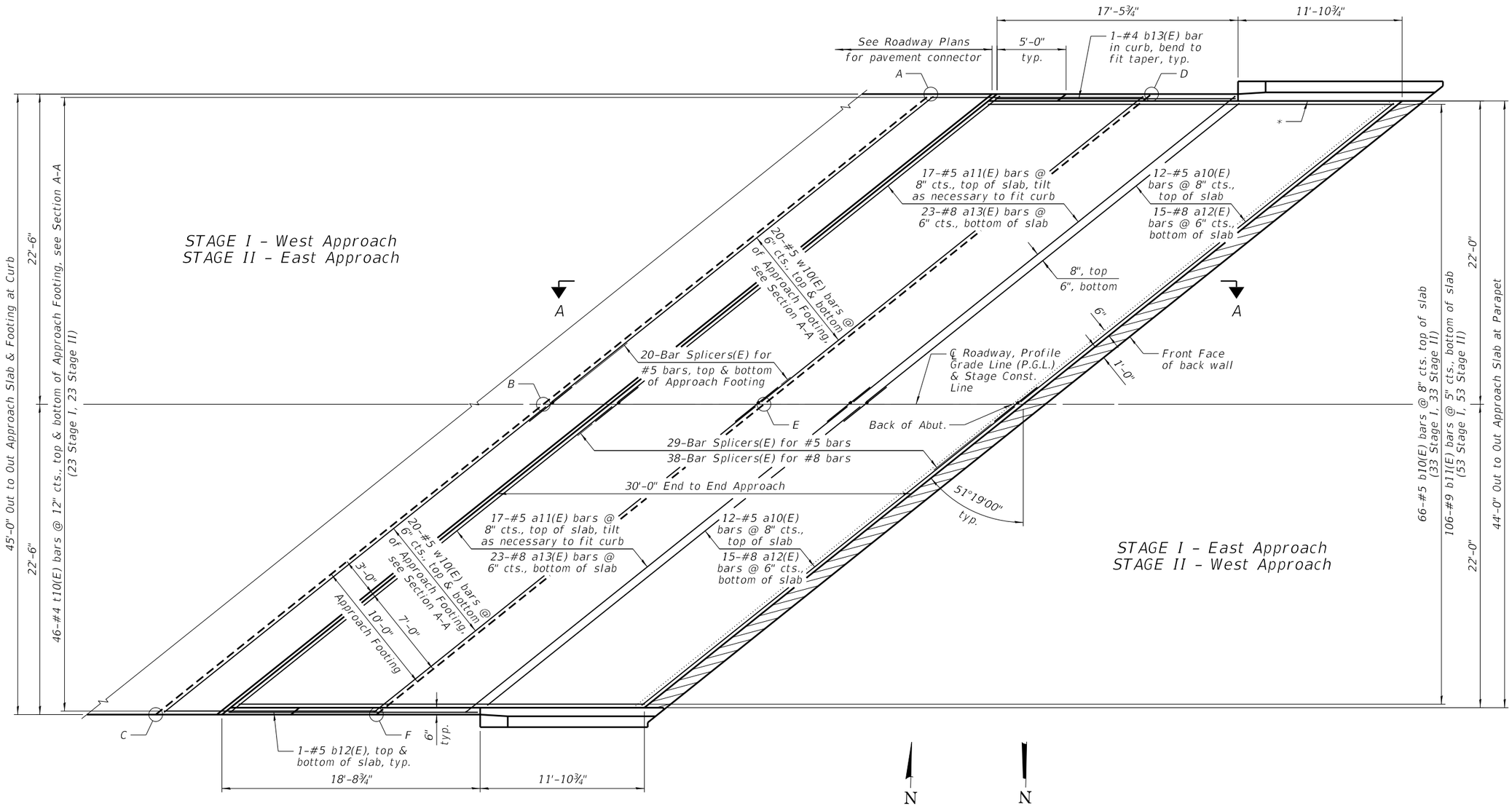
	DATE - 07/17/2020	CHECKED - JCZ	REVISED

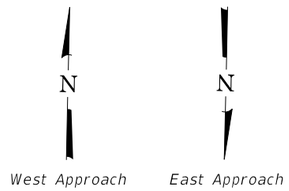
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 032-0075
SHEET NO. 16 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	37
		CONTRACT NO. 66E45		
		ILLINOIS	FED. AID PROJECT	



PLAN



TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

	WEST APPROACH		EAST APPROACH	
POINT	TOP	BOTTOM	TOP	BOTTOM
A	562.03	561.19	562.06	561.23
B	562.24	561.41	562.29	561.45
C	561.66	560.83	561.72	560.88
D	562.11	561.27	562.14	561.31
E	562.34	561.51	562.38	561.55
F	561.78	560.95	561.83	560.99

LEGEND

Hatched area to be poured after superstructure forms have been removed. Quantity of concrete included with Concrete Superstructure.

NOTES:

1.) *½" Preformed Expansion Joint Filler according to Article 1051.09 of the Standard Specifications; full depth of slab, full length of parapet. Typical each parapet.
2.) See Sheet 18 of 34 for Cross Section, Sections A-A & Approach Slab Details.
3.) See Sheet 33 of 34 for Bar Splicer Details.

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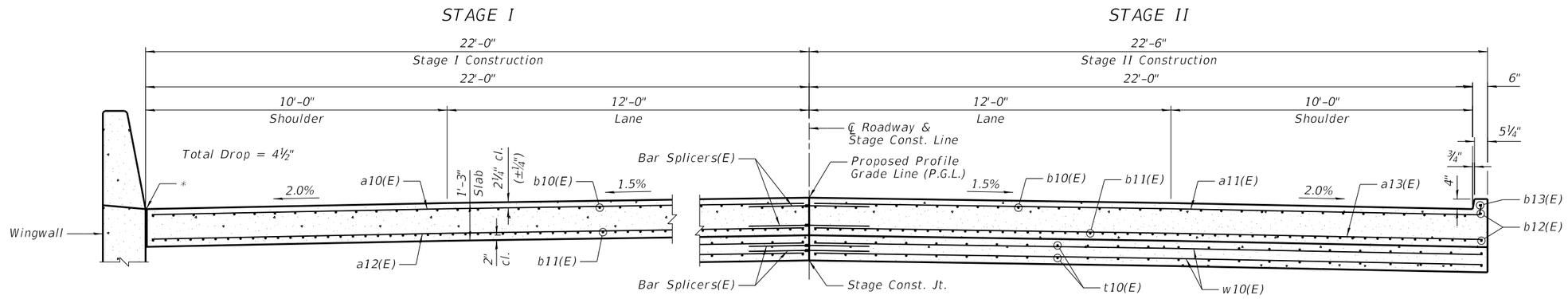
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 032-0075
SHEET NO. 17 OF 34 SHEETS

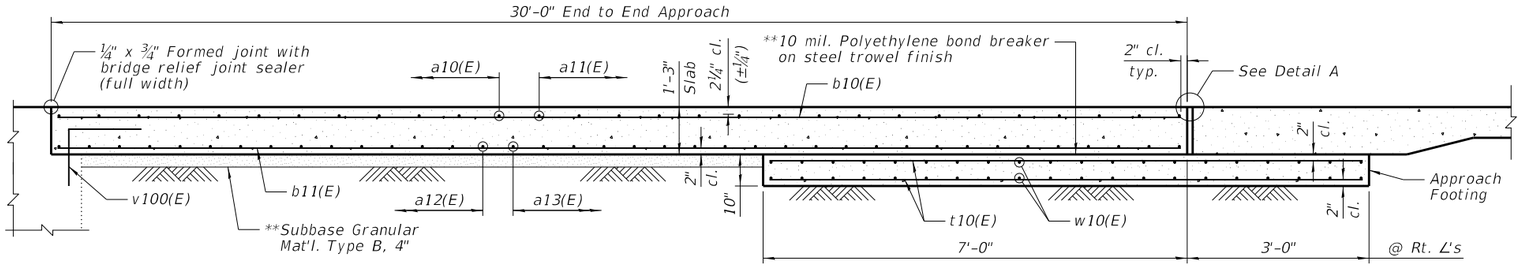
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	38
		CONTRACT NO. 66E45		
		ILLINOIS	FED. AID PROJECT	



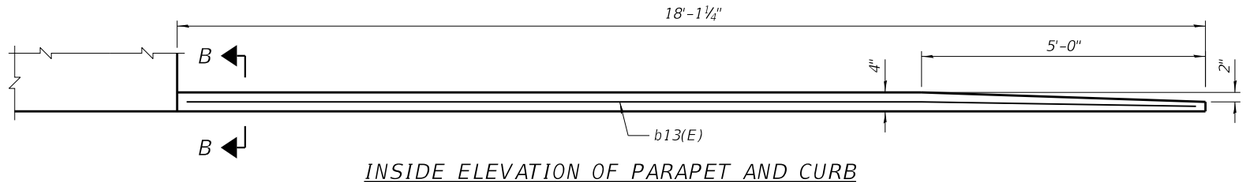
NEAR ABUTMENT

CROSS SECTION
(Looking East)

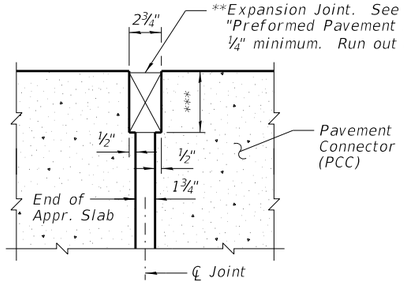
AT APPROACH FOOTING



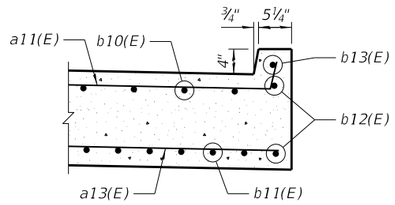
SECTION A-A



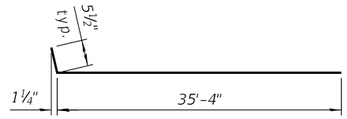
INSIDE ELEVATION OF PARAPET AND CURB



DETAIL A
(@ Rt. ℄'s)



SECTION B-B



BAR a11(E)

TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	48	#5	34'-8"	———
a11(E)	68	#5	35'-10"	⌞——⌟
a12(E)	60	#8	34'-8"	———
a13(E)	92	#8	35'-5"	———
b10(E)	132	#5	29'-8"	———
b11(E)	212	#9	29'-8"	———
b12(E)	8	#5	17'-5"	———
b13(E)	4	#4	17'-5"	———
t10(E)	184	#4	15'-5"	———
w10(E)	160	#5	35'-5"	———

Item	Unit	Quantity
Concrete Structures	Cu. Yd.	44.4
Bridge Deck Grooving	Sq. Yd.	278
Protective Coat	Sq. Yd.	300
Concrete Superstructure (Approach Slab)	Cu. Yd.	124.2
Reinforcement Bars, Epoxy Coated	Pound	52,000

NOTES:

1.) *½" Preformed Expansion Joint Filler according to Article 1051.09 of the Standard Specifications; full depth of slab, full length of parapet. Typical each parapet.
2.) **Cost included with Concrete Superstructure (Approach Slab).
3.) ***Per manufacturer recommendations.
4.) Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
5.) Approach footing concrete shall be paid for as Concrete Structures.
6.) The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
7.) Cost of excavation for approach footing included with Concrete Structures.

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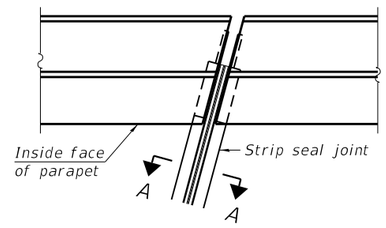
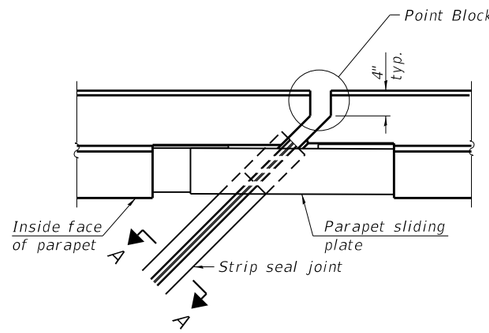
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 032-0075
SHEET NO. 18 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	39
		CONTRACT NO. 66E45		
		ILLINOIS	FED. AID PROJECT	

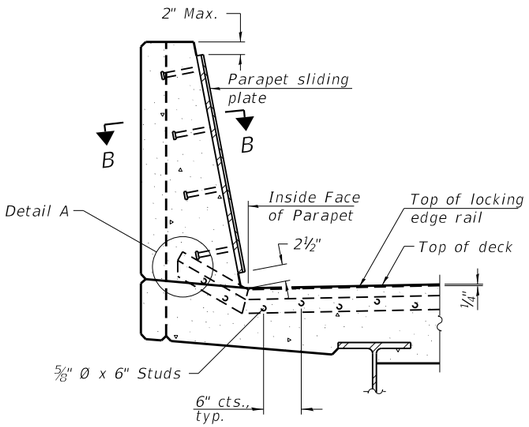


FOR SKEWS ≤ 30°



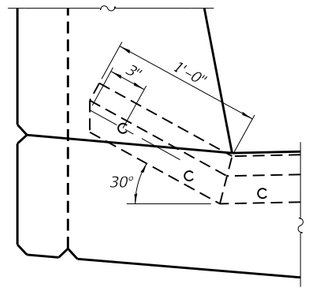
FOR SKEWS > 30°

PLAN AT PARAPET

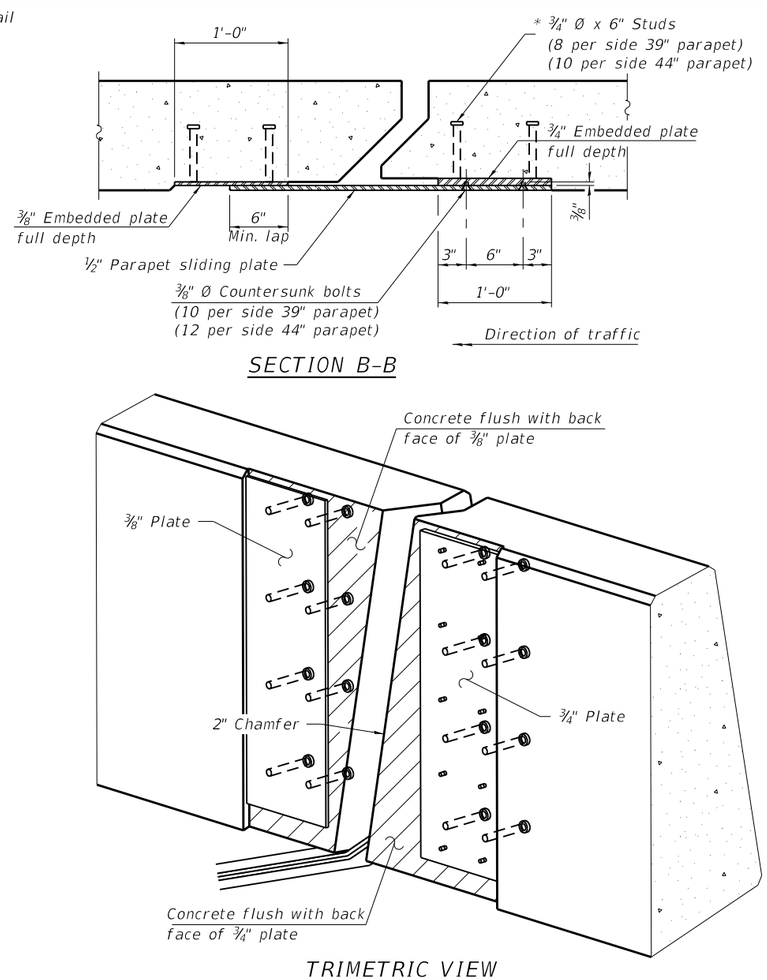


SECTION AT PARAPET

(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



DETAIL A



SECTION B-B

TRIMETRIC VIEW

(Showing embedded plates only)

Notes:

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

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

The manufacturer's recommended installation methods shall be followed.

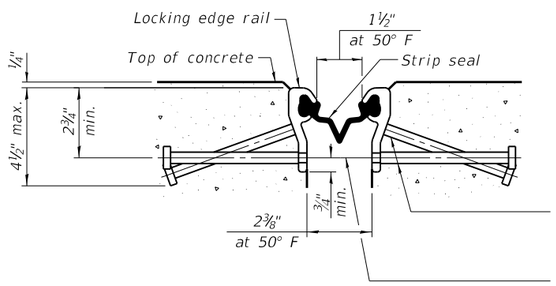
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

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

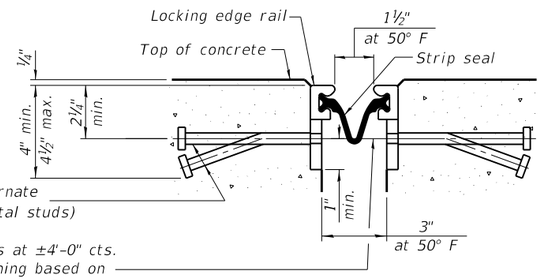
Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

39" constant slope barrier shown, 44" constant slope barrier similar as noted.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.



SHOWING ROLLED RAIL JOINT



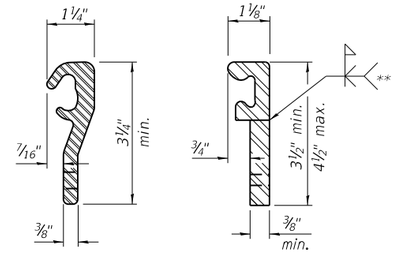
SHOWING WELDED RAIL JOINT

* ⅝" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

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

SECTION A-A

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



ROLLED (EXTRUDED) RAIL

WELDED RAIL

LOCKING EDGE RAILS

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

LOCKING EDGE RAIL SPLICE

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

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	145

EJ-SS

1-1-2020

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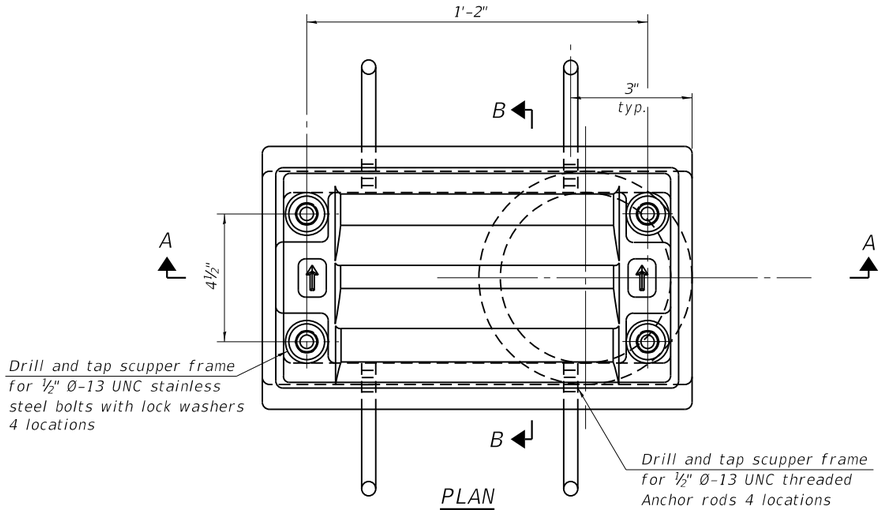
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

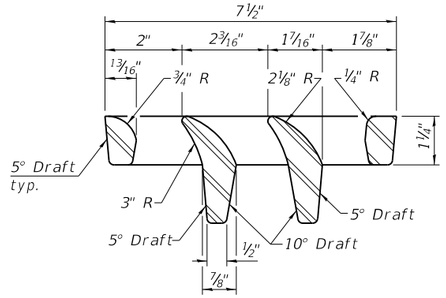
PERFORMED JOINT STRIP SEAL
STRUCTURE NO. 032-0075

SHEET NO. 19 OF 34 SHEETS

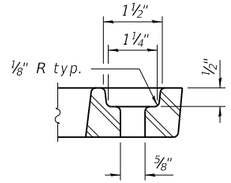
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	40
		CONTRACT NO. 66E45		
	ILLINOIS FED. AID PROJECT			



PLAN



VANE GRATE DETAIL



GRATE BOLT HOLE DETAIL

Notes:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M105, Class 35B and AASHTO M306.

Bolts, anchor rods, nuts and washers shall be according to ASTM A307 and shall be galvanized according to AASHTO M232. As an alternate stainless steel may be used.

Stainless steel hardware shall be according to Article 1006.29(d) of the Standard Specifications.

Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frames and downspouts; however, the scupper grates shall remain cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval.

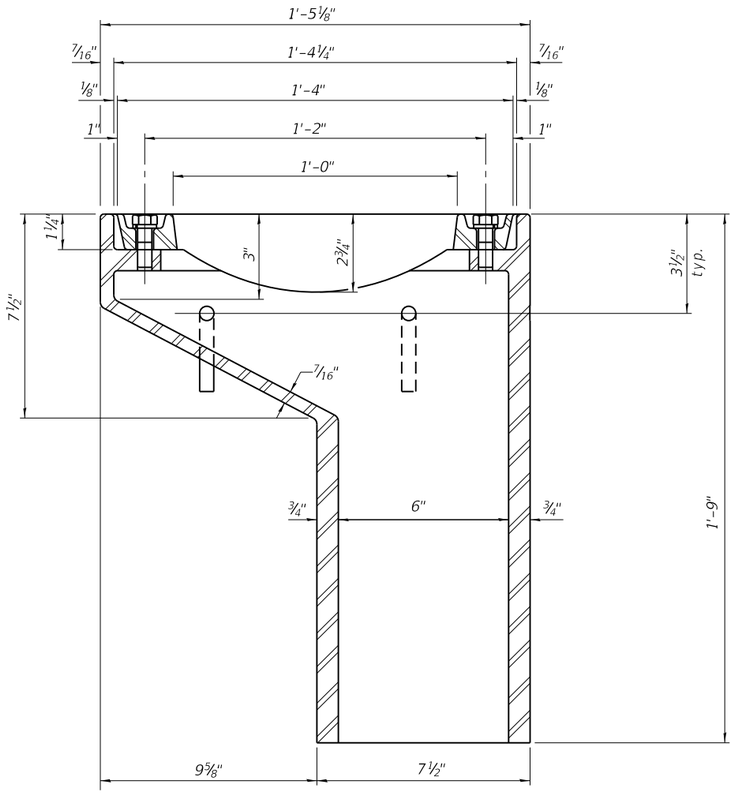
Structural steel scupper frames and downspouts, when utilized, shall be galvanized according to AASHTO M111.

As an alternate, fiberglass may be used for downspouts according to ASTM D2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. in lieu of the cast iron or structural steel.

Exterior surfaces of downspouts and exterior exposed surfaces of the scupper frame below deck shall be treated as specified on Sheet 16 of 34.

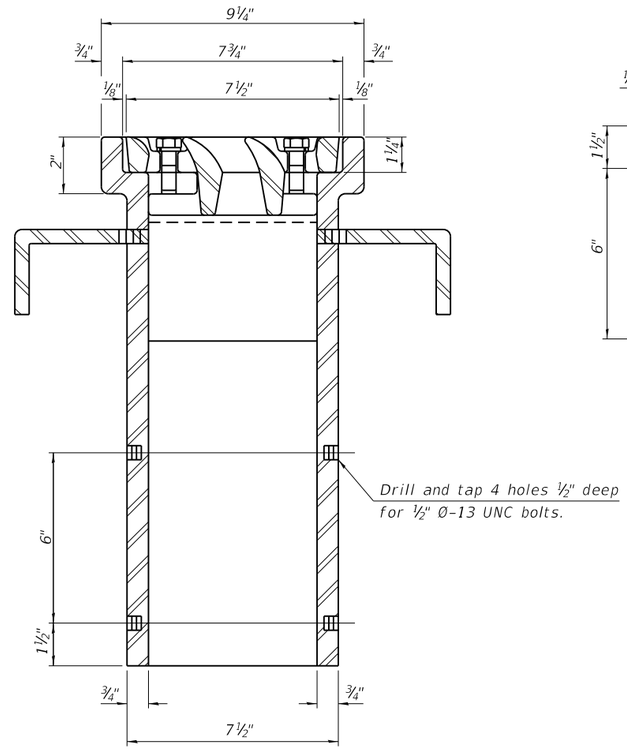
The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.

Cost of the grate, frame, downspout, anchor rods, nuts and washers including complete installation of the scupper shall be paid for at the contract unit price for Drainage Scupper, DS-11.



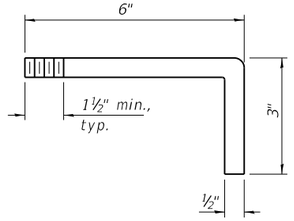
SECTION A-A

See Sheet 15 of 34 for scupper location relative to parapet.



SECTION B-B

DOWNSPOUT



ANCHOR ROD DETAIL

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-11	Each	4

DS-11 1-1-2020

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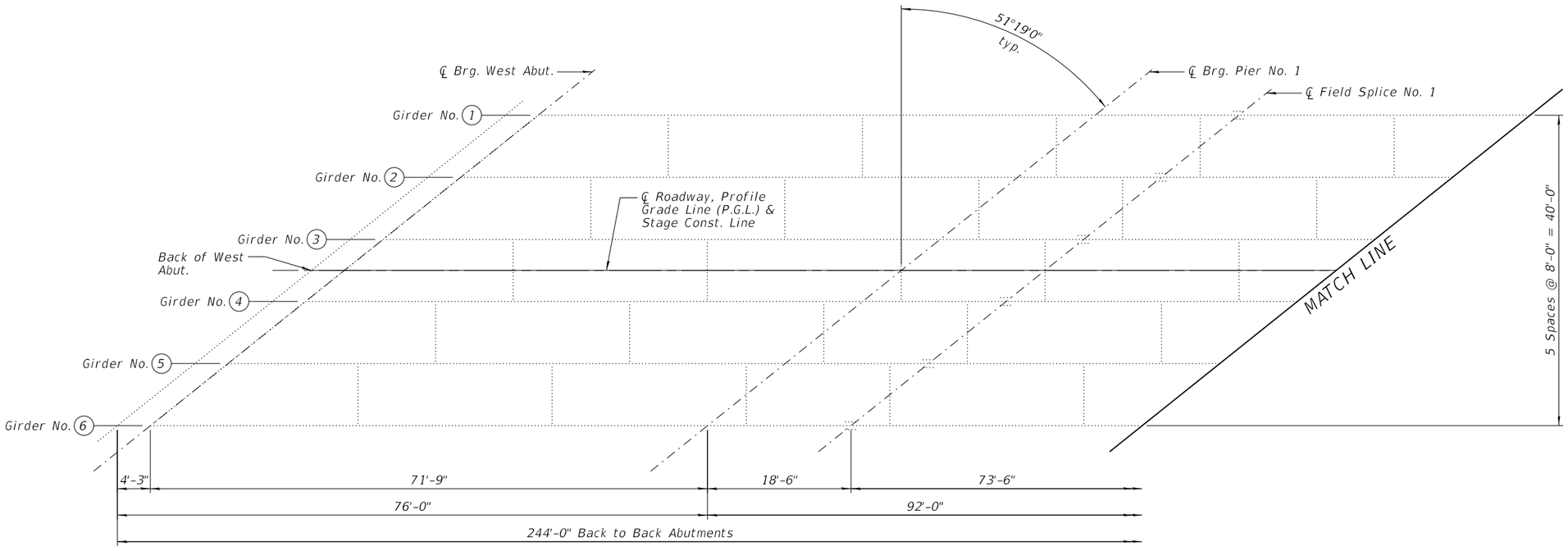
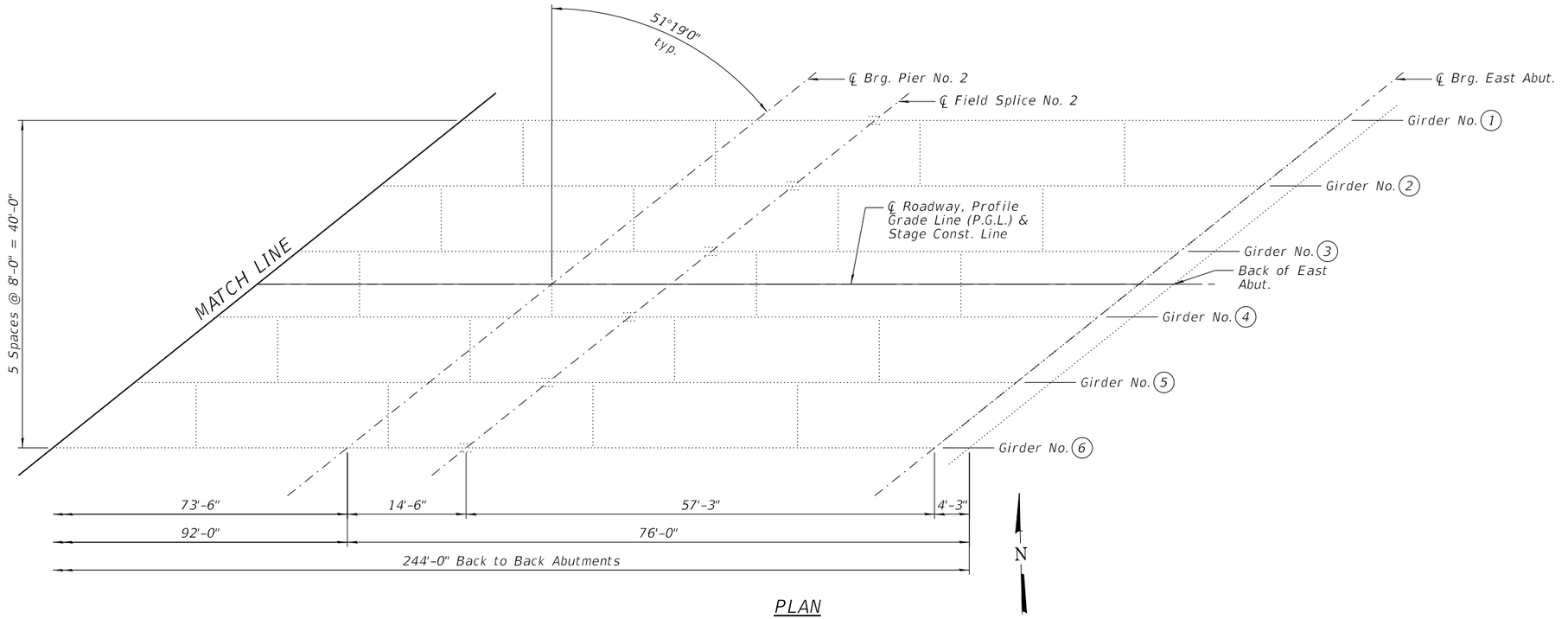
DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPER, DS-11
STRUCTURE NO. 032-0075
SHEET NO. 20 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	41
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		





PLAN

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DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL
STRUCTURE NO. 032–0075
SHEET NO. 21 OF 34 SHEETS

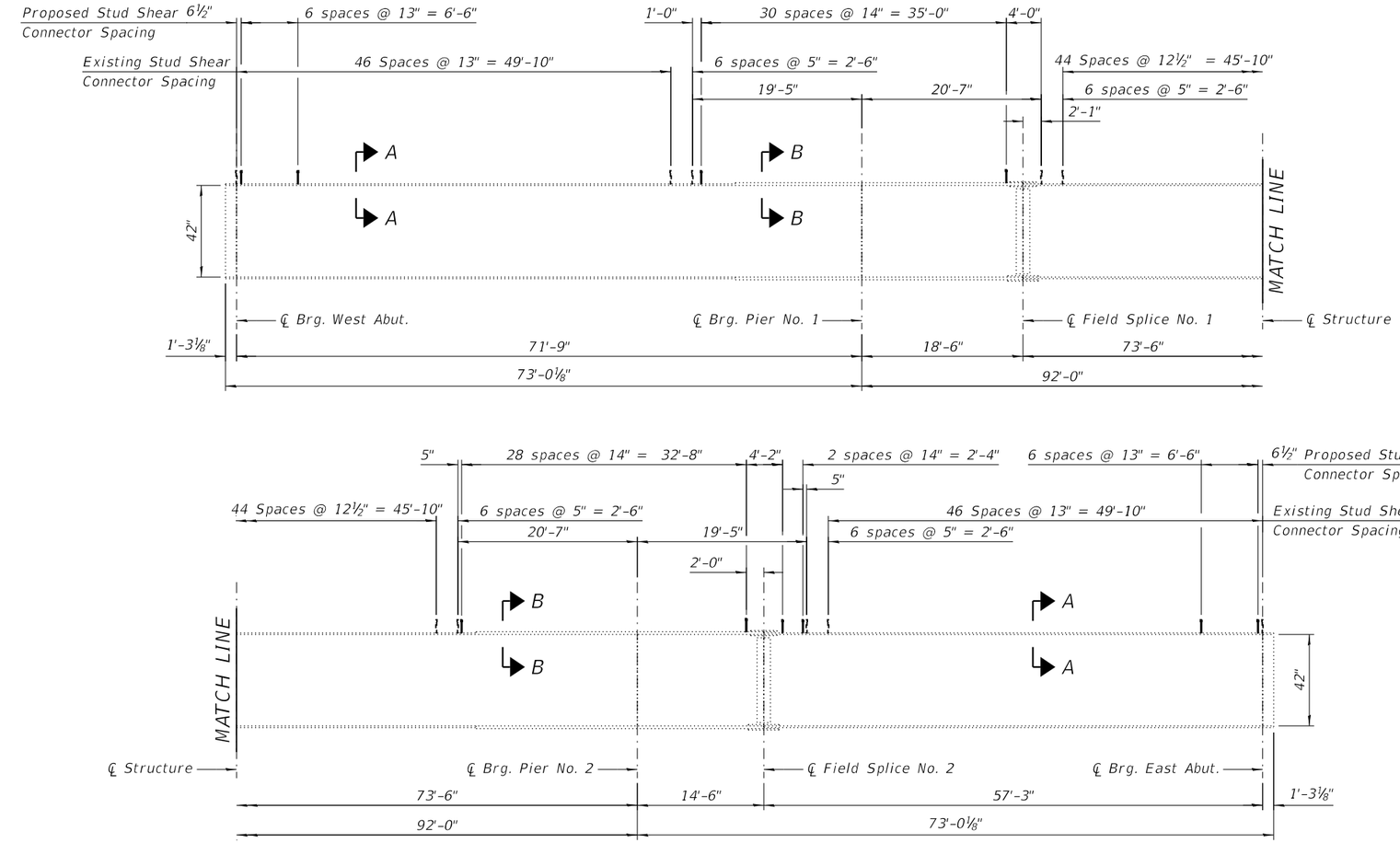
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	42
		CONTRACT NO. 66E45		
		ILLINOIS	FED. AID PROJECT	

INTERIOR GIRDER MOMENT TABLE				
		0.4 Sp. 1 or 0.6 Sp. 3	Pier	0.5 Sp. 2
I_S	(in^4)	12,585	21,798	12,585
$I_C(n)$	(in^4)	38,140	52,077	38,140
$I_C(3n)$	(in^4)	28,323	38,719	28,323
$I_C(cr)$	(in^4)		27,504	
S_S	(in^3)	622	980	622
$S_C(n)$	(in^3)	940	1,318	940
$S_C(3n)$	(in^3)	861	1,211	861
$S_C(cr)$	(in^3)		1,075	
D_L	(k/')	1.027	1.086	1.027
M_{D_L}	('k)	319	794	302
s_{D_L}	(k/')	0.358	0.358	0.358
Ms_{D_L}	('k)	116	262	117
M_{L_L}	('k)	585	600	595
M_I	('k)	146	144	137
$^5/_3\,[M_{L_L} + M_I]$	('k)	1,218	1,240	1,220
Ma	('k)	2,149	2,985	2,131
* Mu	('k)	3,289		3,901
fs_{D_L} non-comp	(ksi)	6.2	9.7	5.8
fs_{D_L} (comp)	(ksi)	1.6	2.9	1.6
$fs\,^5/_3\,[M_{L_L} + M_I]$	(ksi)	15.6	13.8	15.6
fs (Overload)	(ksi)	23.3	26.5	23.0
** fs (Total)	(ksi)		34.4	
VR	(k)	48.9	46.8	46.8

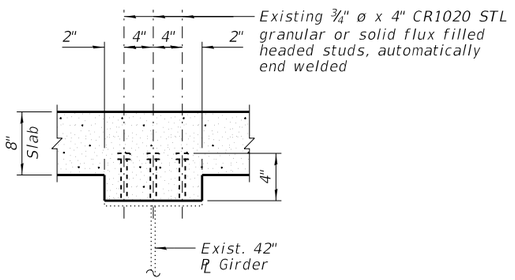
INTERIOR GIRDER REACTION TABLE			
		Abut.	Pier
R_{D_L}	(k)	34.0	123.4
R_{L_L}	(k)	52.8	64.5
R_I	(k)	15.8	19.4
R_{Total}	(k)	102.6	207.3

* Compact section
** Braced non-compact and partially braced section

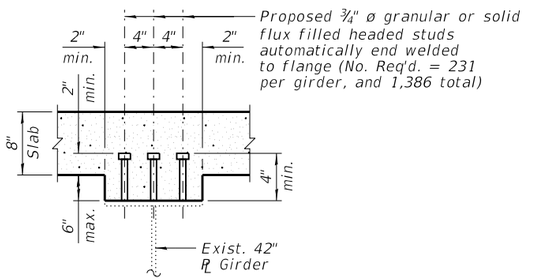
Is, Ss: Non-composite moment of inertia and section modulus of the steel section used for computing fs(Total and Overload) due to non-composite dead loads ($in.^4$ and $in.^3$).
Ic(n), Sc(n): Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing fs(Total and Overload) due to short-term composite live loads ($in.^4$ and $in.^3$).
Ic(3n), Sc(3n): Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing fs(Total and Overload) due to long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).
Ic(cr), Sc(cr): Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing fs(Total and Overload) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).
D_L: Un-factored non-composite dead load (kips/ft.).
M_{D_L}: Un-factored moment due to non-composite dead load (kip-ft.).
s_{D_L}: Un-factored long-term composite (superimposed) dead load (kips/ft.)
Ms_{D_L}: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).
M_{L_L}: Un-factored live load moment (kip-ft.).
MI: Un-factored moment due to impact (kip-ft.).
Ma: Factored design moment (kip-ft.).
$1.3\,[M_{D_L} + Ms_{D_L} + \frac{5}{3}(M_{L_L} + MI)]$
Mu: Compact composite moment capacity according to AASHTO LFD 10.50.1.1 or compact non-composite moment capacity according to AASHTO LFD 10.48.1 (kip-ft.).
fs (Overload): Sum of stresses as computed from the moments below (ksi).
$M_{D_L} + Ms_{D_L} + \frac{5}{3}(M_{L_L} + MI)$
fs (Total): Sum of stresses as computed from the moments below on non-compact section (ksi).
$1.3\,[M_{D_L} + Ms_{D_L} + \frac{5}{3}(M_{L_L} + MI)]$
VR: Maximum L_L + impact shear range within the span for stud shear connector design (kips).



EXISTING GIRDER ELEVATION



SECTION A-A



SECTION B-B

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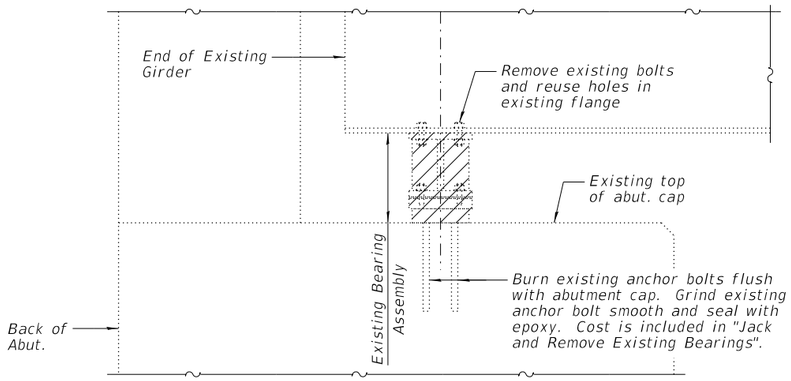
DEPARTMENT OF TRANSPORTATION

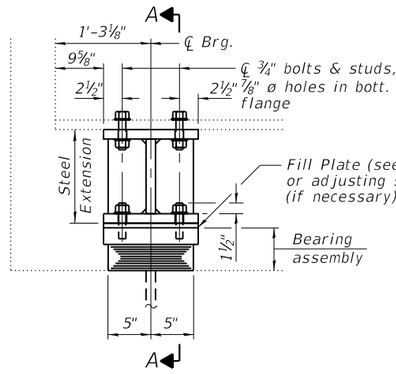
STRUCTURAL STEEL
STRUCTURE NO. 032-0075
SHEET NO. 22 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	43
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

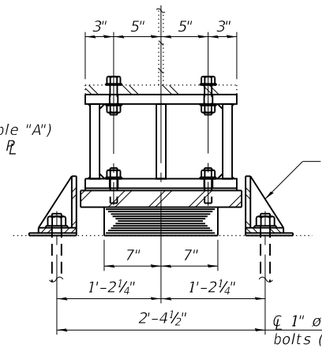


EXISTING BEARING REMOVAL DETAIL – ABUTMENT

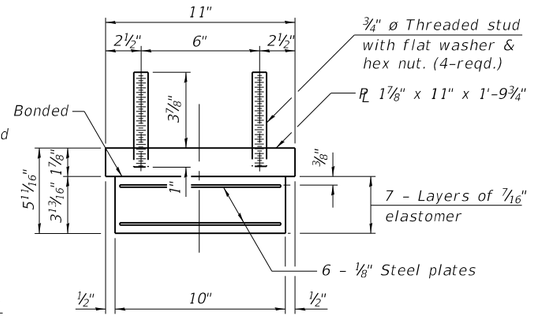
(12 Required)



ELEVATION AT ABUTMENT



SECTION A–A

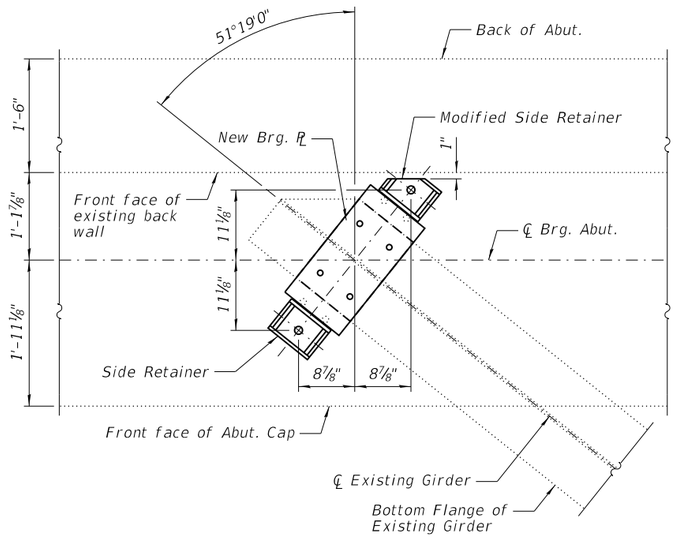


BEARING ASSEMBLY

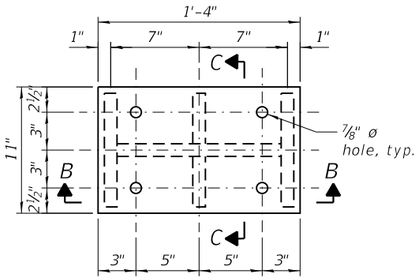
TYPE I ELASTOMERIC EXP. BRG.

(12 Required)

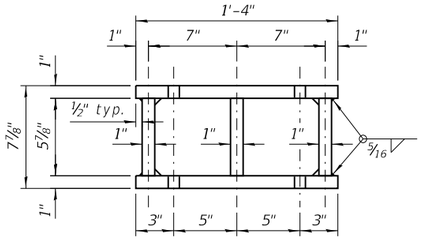
Note:
Shim plates shall not be placed under bearing assembly.



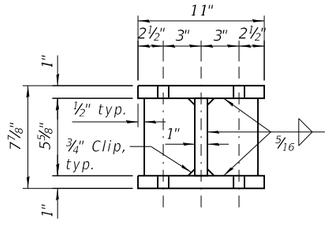
ANCHOR BOLT PLACEMENT DETAIL – ABUTMENT



PLAN TOP & BOTTOM PLATE



SECTION B–B



SECTION C–C

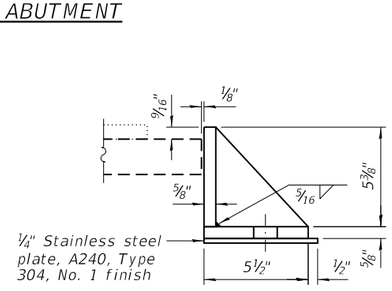
STEEL EXTENSION DETAILS

(12 Required)

Notes:
Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.
Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on the bearing details.
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions, and existing bolt locations for each bearing.
All existing bearings at each abutment shall be removed and replaced with Elastomeric Bearing Assembly, Type I. Bearing replacement shall be completed after removal of existing deck but prior to construction of the concrete deck.
Reaction due to DL Steel only, per girder at each Abutment = 4.5 kips.
Minimum jack capacity per girder at each Abutment = 5 tons.
The Contractor shall submit, for approval by the Engineer, plans for jacking existing girders and removing the existing bearings prior to commencing any related work. See Special Provisions.

TABLE "A"

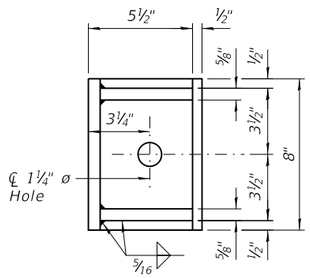
Location	Girder No.	Fill Plate Thickness
W. Abut.	1	¾"
W. Abut.	2	1"
W. Abut.	4	1⅜"
W. Abut.	5	1¼"
W. Abut.	6	⅝"
E. Abut.	1	¾"
E. Abut.	2	1"
E. Abut.	3	1⅛"
E. Abut.	4	½"
E. Abut.	5	⅝"
E. Abut.	6	1¼"



SIDE RETAINER

(12 Required)

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



MODIFIED SIDE RETAINER

(12 Required)

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	2,640
Elastomeric Bearing Assembly Type I	Each	12
Anchor Bolts, 1"	Each	24
Jack and Remove Existing Bearings	Each	12

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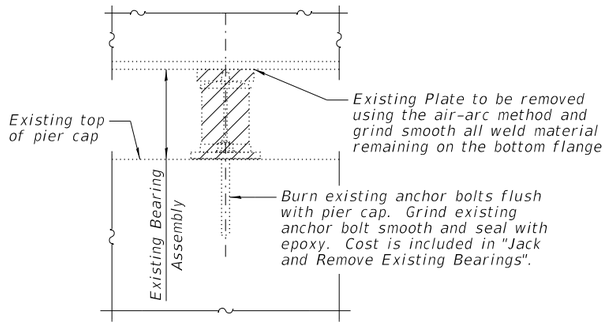
DEPARTMENT OF TRANSPORTATION

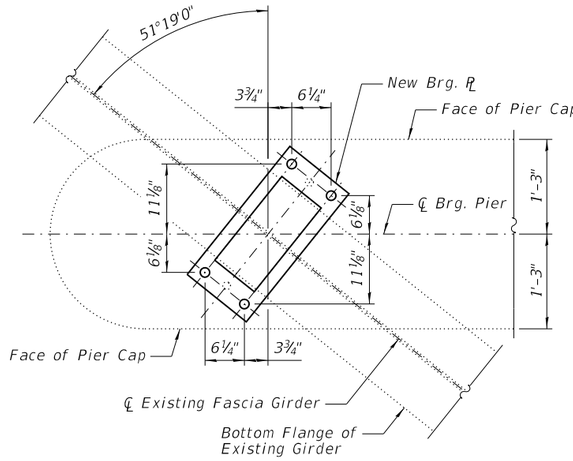
BEARING DETAILS
STRUCTURE NO. 032–0075
SHEET NO. 23 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	44
		CONTRACT NO. 66E45		
		ILLINOIS	FED. AID PROJECT	



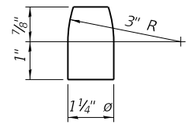
EXISTING BEARING REMOVAL DETAIL – PIER

(4 Required)

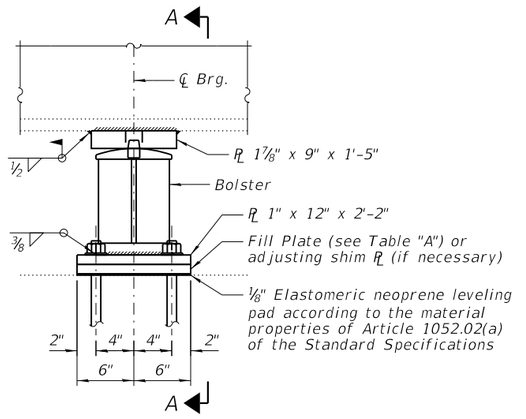


ANCHOR BOLT PLACEMENT DETAIL – PIER

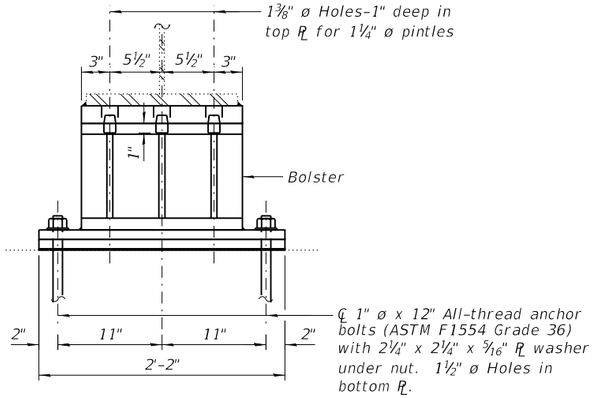
Note:
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions, and existing bolt locations for each bearing.
The existing bearings located at girders 1 & 6 shall be removed and replaced with Bolster Bearing Assemblies on Pier No. 1 and Rocker Bearing Assemblies on Pier No. 2. Bearing replacement shall be completed after removal of existing deck but prior to construction of the concrete deck.
Reaction due to DL Steel only, per girder at each Pier = 17.7 kips.
Minimum jack capacity per girder at each Pier = 18 tons.
The Contractor shall submit, for approval by the Engineer, plans for jacking existing girders and removing the existing bearings prior to commencing any related work. See Special Provisions.
Cost of all field welding included with Furnishing & Erecting Structural Steel.



PINTLE



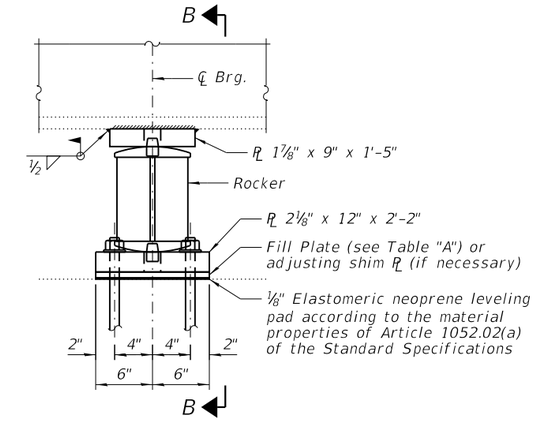
ELEVATION AT PIER NO. 1



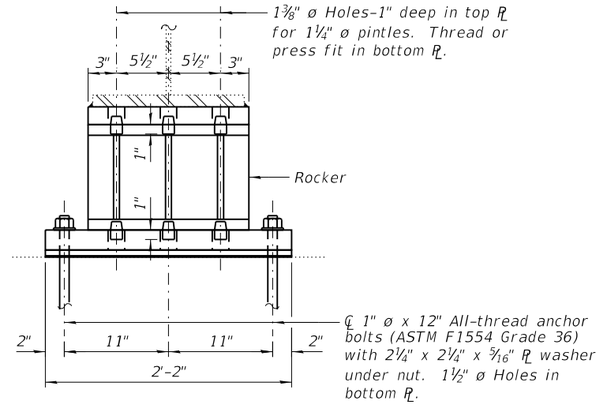
SECTION A-A

FIXED BEARING

(2 Required)



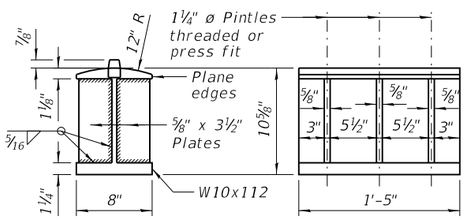
ELEVATION AT PIER NO. 2



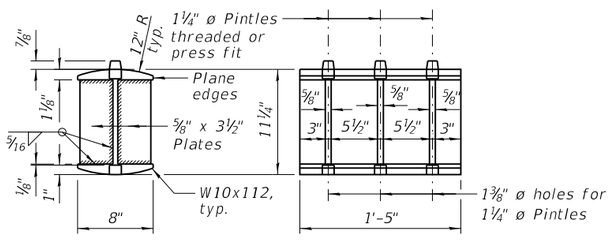
SECTION B-B

EXPANSION BEARING

(2 Required)



BOLSTER



ROCKER

TABLE "A"

Location	Girder No.	Fill Plate Thickness
Pier No. 1	1	1"
Pier No. 2	6	⅝"

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	1,820
Anchor Bolts, 1"	Each	16
Jack and Remove Existing Bearings	Each	4

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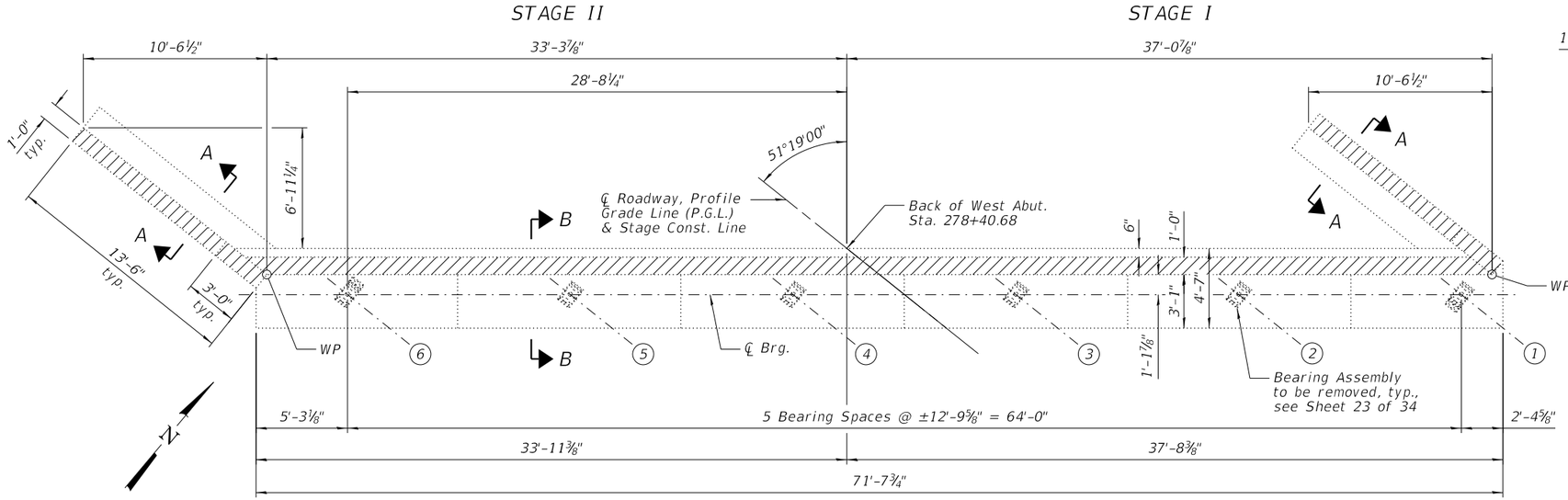
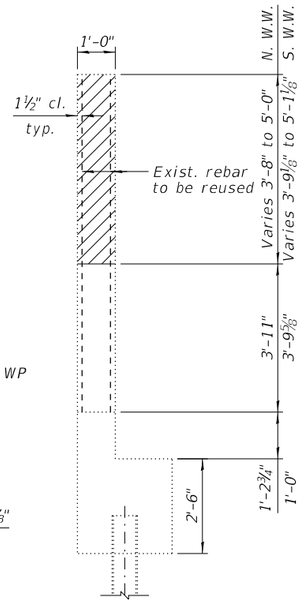
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS
STRUCTURE NO. 032–0075
SHEET NO. 24 OF 34 SHEETS

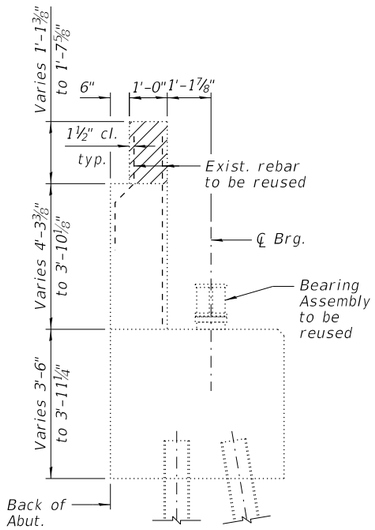
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	45
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		



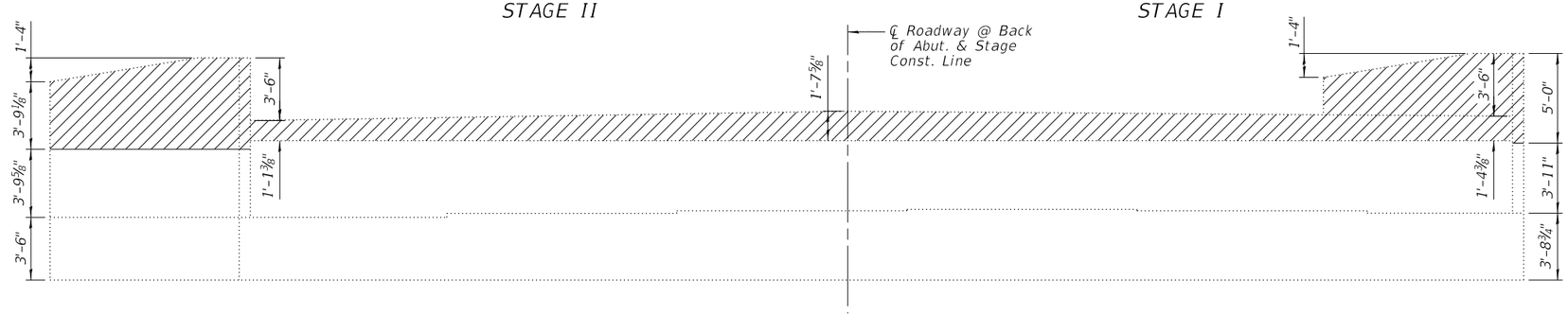
PLAN



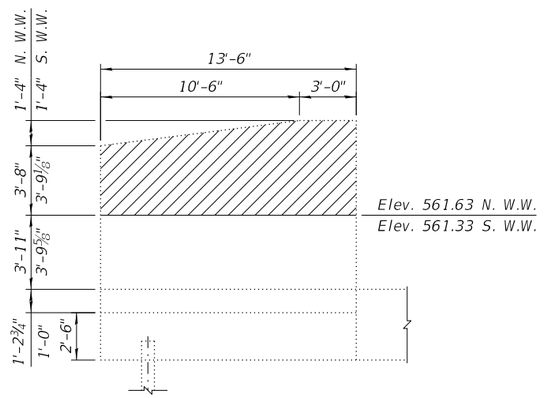
SECTION A–A



SECTION B–B
(Horiz. dimensions @ Rt. ∠'s)



ELEVATION
(Looking Northwest)



OUTSIDE FACE OF WINGWALL

LEGEND

Concrete Removal

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	8.3

NOTES:

1.) Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with "Concrete Removal".
2.) Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost incidental to "Concrete Removal".

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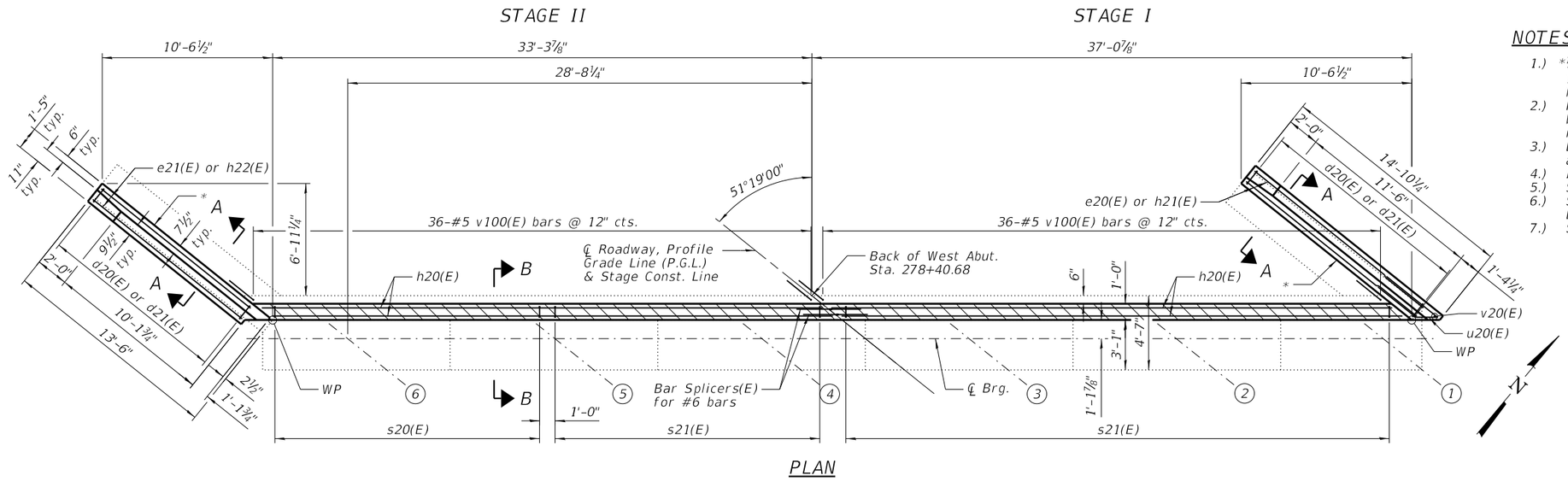
WEST ABUTMENT REMOVAL
STRUCTURE NO. 032–0075
SHEET NO. 25 OF 34 SHEETS

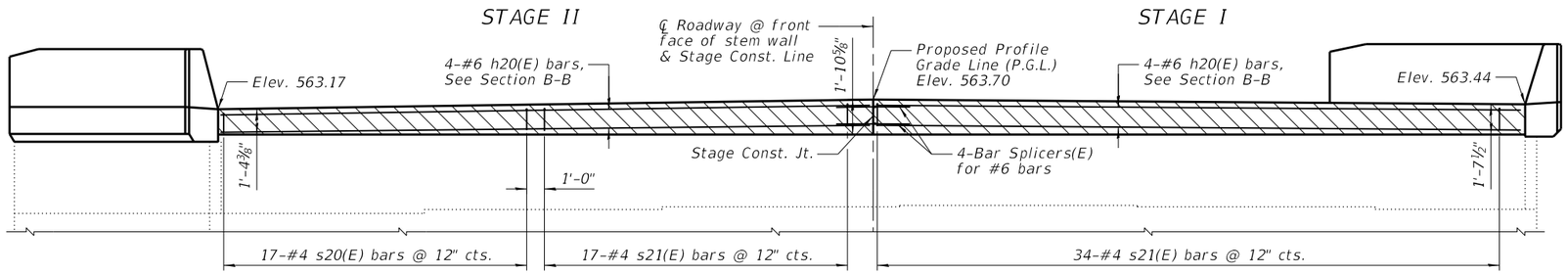
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	46
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		



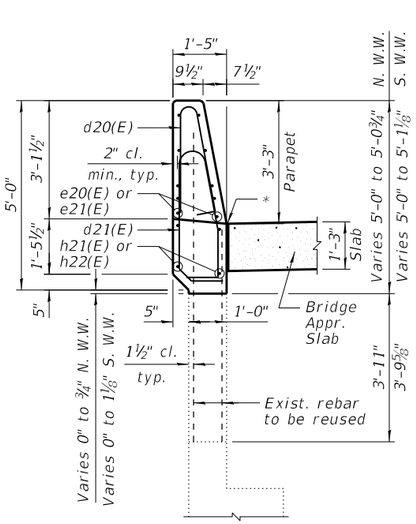
NOTES:

1.) *½" Preformed Expansion Joint Filler according to Article 1051.09 of the Standard Specifications; full depth of slab, full length of parapet. Typical each parapet.
2.) Hatched area to be poured after superstructure false work has been removed. Concrete for hatched area and for wingwall retrofit shall be paid for as Concrete Superstructure.
3.) Drill & grout #5 v100(E) bars 6" min. into existing concrete according to Section 584 of the Standard Specifications.
4.) I.F. denotes Inside Face & O.F. denotes Outside Face.
5.) See Sheet 23 of 34 for Anchor Bolt Placement Detail.
6.) See Sheet 27 of 34 for Bill of Material and Bar Bending Diagrams.
7.) See Sheet 33 of 34 for Bar Splicer Details.

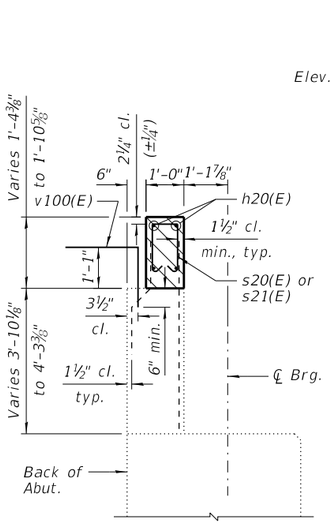
PLAN



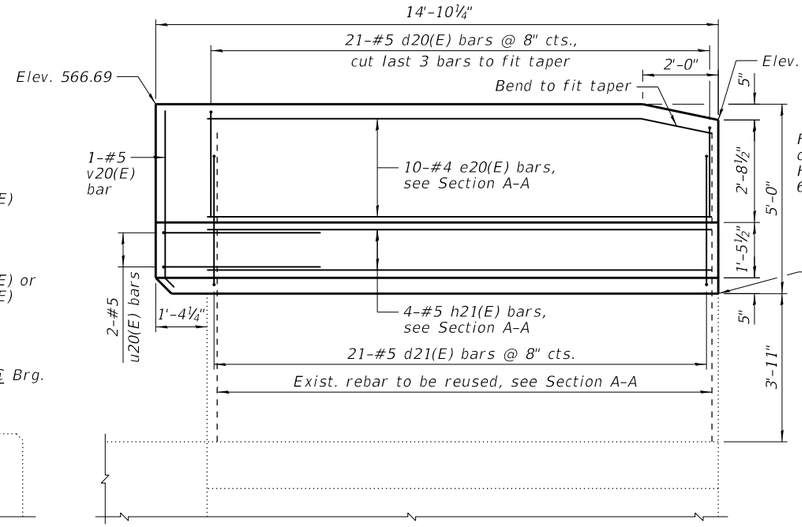
ELEVATION
(Looking Northwest)



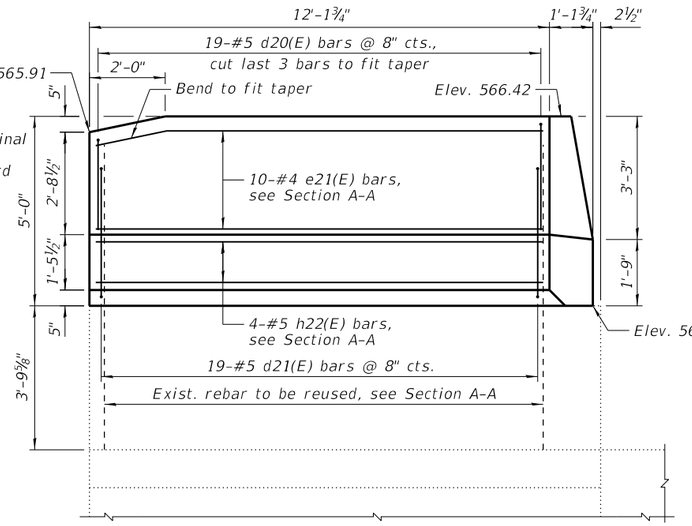
SECTION A-A



SECTION B-B
(Horiz. dimensions @ Rt. ∠'s)



OUTSIDE FACE OF NORTH WINGWALL
(Looking South)



OUTSIDE FACE OF SOUTH WINGWALL
(Looking North)

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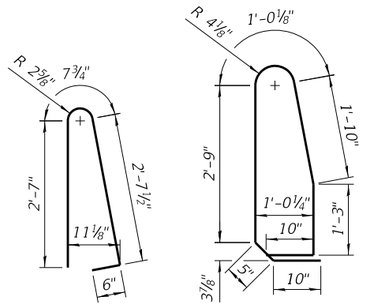
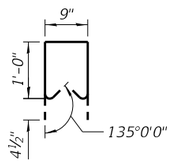
WEST ABUTMENT
STRUCTURE NO. 032-0075
SHEET NO. 26 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	47
		CONTRACT NO. 66E45		
		ILLINOIS	FED. AID PROJECT	

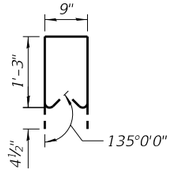


BAR d20(E)

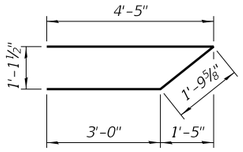
BAR d21(E)



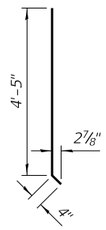
BAR s20(E)



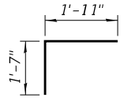
BAR s21(E)



BAR u20(E)



BAR v20(E)



BAR v100(E)

WEST ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d20(E)	40	#5	6'-5"	
d21(E)	40	#5	9'-0"	
e20(E)	10	#4	13'-2"	
e21(E)	10	#4	11'-10"	
h20(E)	8	#6	34'-8"	
h21(E)	4	#5	13'-2"	
h22(E)	4	#5	11'-10"	
s20(E)	17	#4	3'-6"	
s21(E)	51	#4	4'-0"	
u20(E)	2	#5	9'-3"	
v20(E)	1	#5	4'-9"	
v100(E)	72	#5	3'-6"	

Item	Unit	Quantity
Protective Coat	Sq. Yd.	20
Concrete Superstructure	Cu. Yd.	10.4
Reinforcement Bars, Epoxy Coated	Pound	1,790

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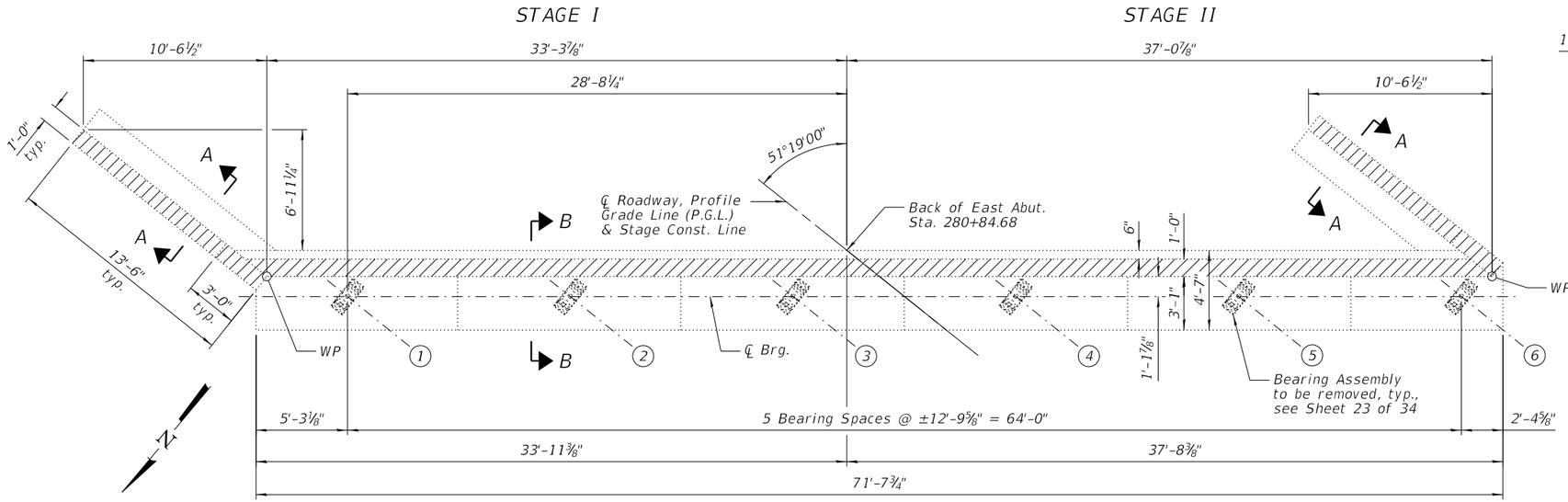
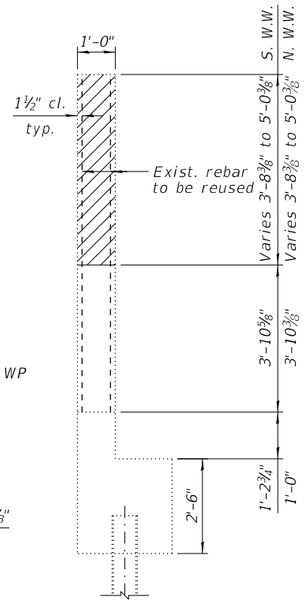
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT
STRUCTURE NO. 032-0075
SHEET NO. 27 OF 34 SHEETS

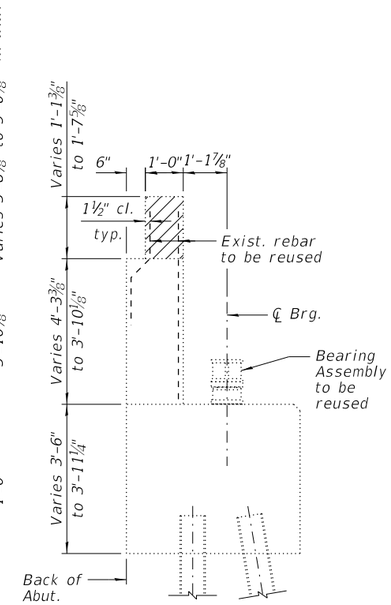
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	48
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		



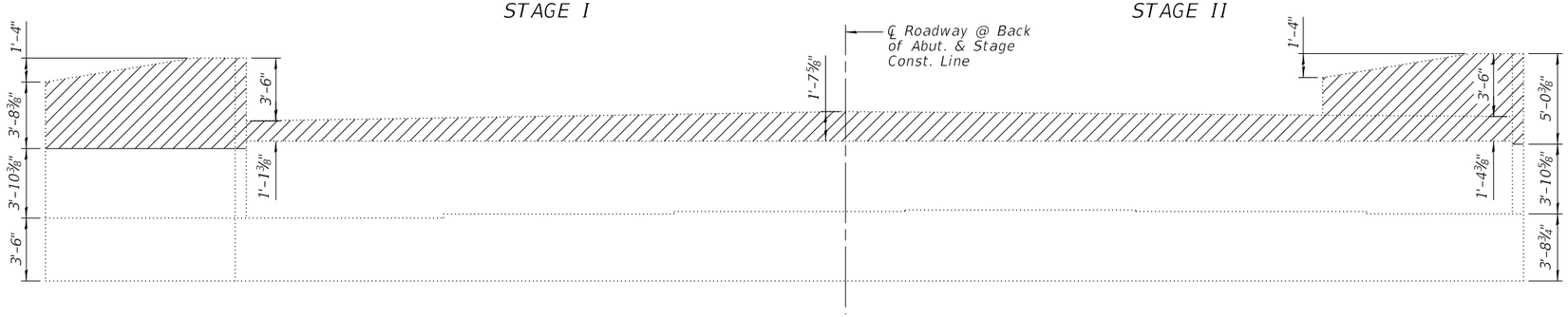
PLAN



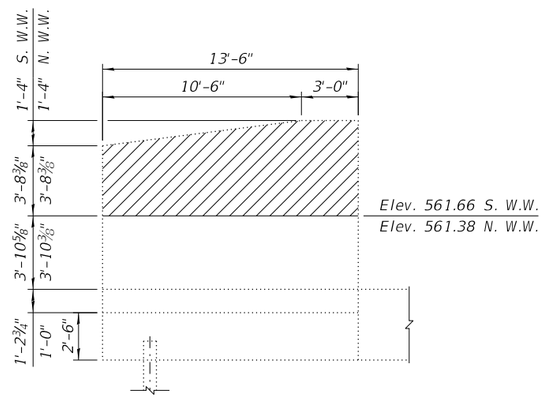
SECTION A–A



SECTION B–B
(Horiz. dimensions @ Rt. ∠'s)



ELEVATION
(Looking Southeast)



OUTSIDE FACE OF WINGWALL

LEGEND

Concrete Removal

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	8.3

NOTES:

1.) Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with "Concrete Removal".
2.) Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost incidental to "Concrete Removal".

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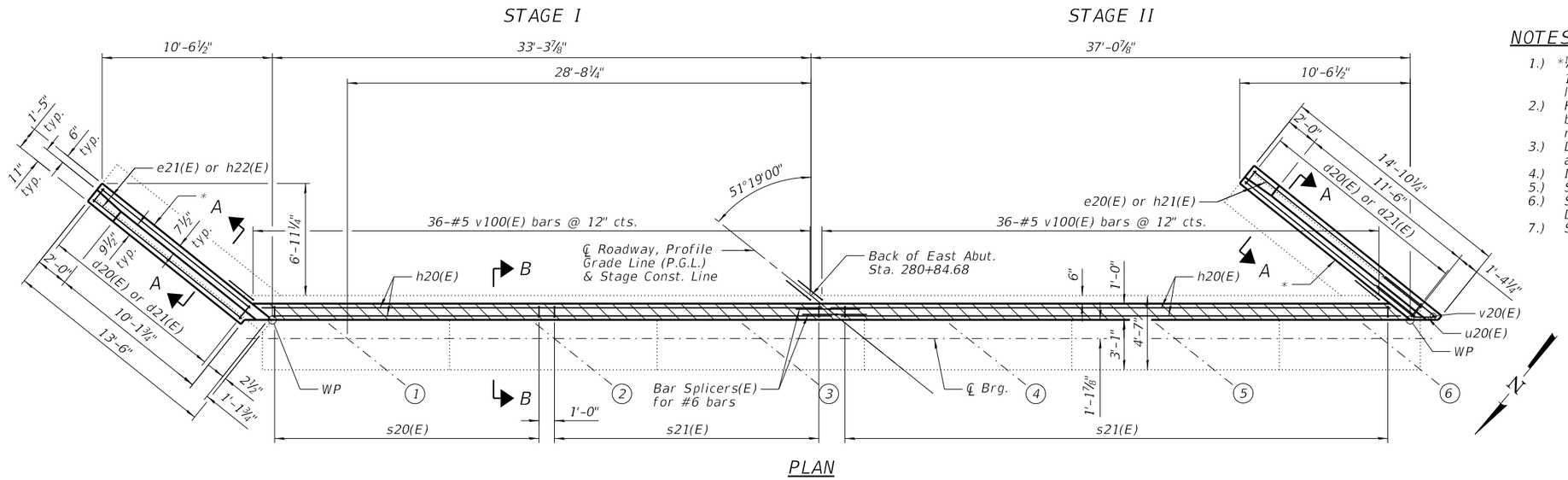
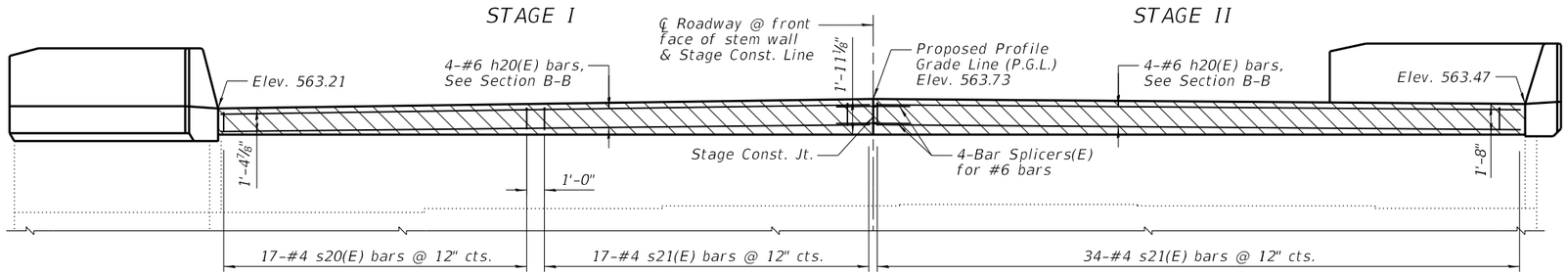
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT REMOVAL
STRUCTURE NO. 032–0075
SHEET NO. 28 OF 34 SHEETS

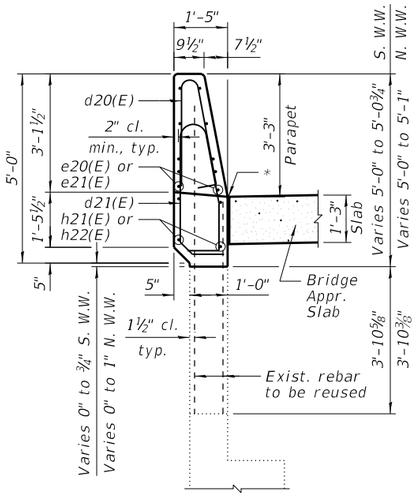
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	49
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		



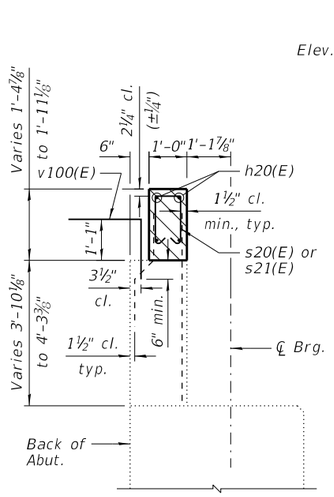
PLAN



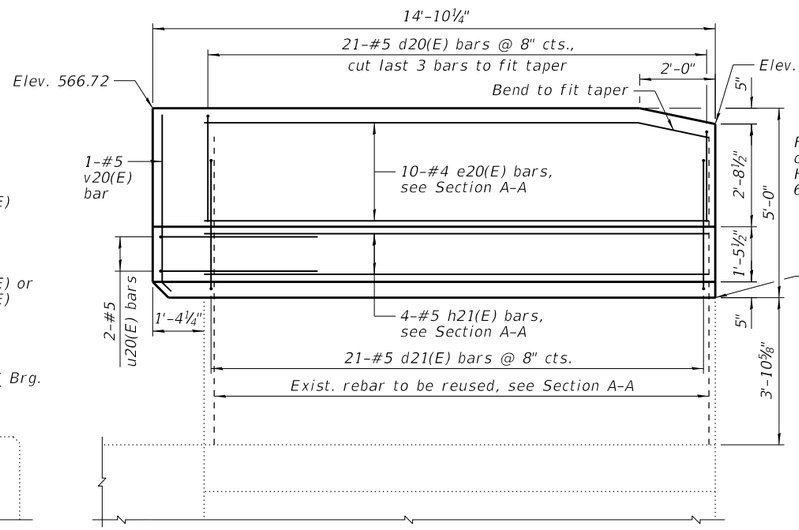
ELEVATION
(Looking Southeast)



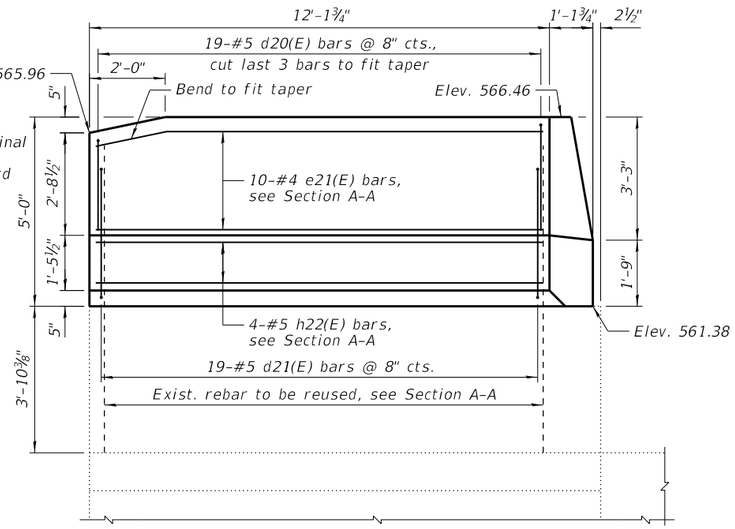
SECTION A-A



SECTION B-B
(Horiz. dimensions @ Rt. ∠'s)



OUTSIDE FACE OF SOUTH WINGWALL
(Looking North)



OUTSIDE FACE OF NORTH WINGWALL
(Looking South)

NOTES:

1.) *½" Preformed Expansion Joint Filler according to Article 1051.09 of the Standard Specifications; full depth of slab, full length of parapet. Typical each parapet.
2.) Hatched area to be poured after superstructure false work has been removed. Concrete for hatched area and for wingwall retrofit shall be paid for as Concrete Superstructure.
3.) Drill & grout #5 v100(E) bars 6" min. into existing concrete according to Section 584 of the Standard Specifications.
4.) I.F. denotes Inside Face & O.F. denotes Outside Face.
5.) See Sheet 23 of 34 for Anchor Bolt Placement Detail.
6.) See Sheet 30 of 34 for Bill of Material and Bar Bending Diagrams.
7.) See Sheet 33 of 34 for Bar Splicer Details.

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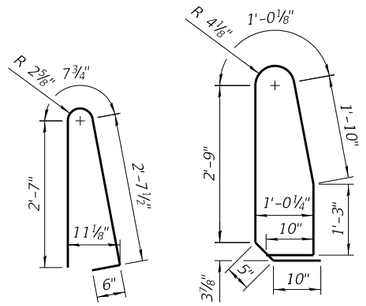
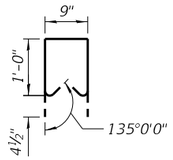
EAST ABUTMENT
STRUCTURE NO. 032-0075
SHEET NO. 29 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	50
		CONTRACT NO. 66E45		
		ILLINOIS	FED. AID PROJECT	



BAR d20(E)

BAR d21(E)



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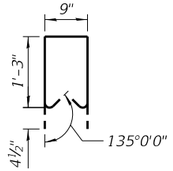

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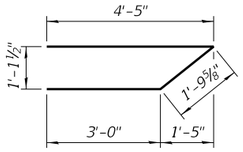
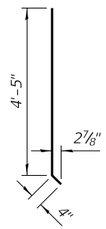
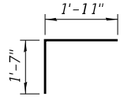


BAR u20(E)



BAR v20(E)



BAR v100(E)

EAST ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d20(E)	40	#5	6'-5"	
d21(E)	40	#5	9'-0"	
e20(E)	10	#4	13'-2"	
e21(E)	10	#4	11'-10"	
h20(E)	8	#6	34'-8"	
h21(E)	4	#5	13'-2"	
h22(E)	4	#5	11'-10"	
s20(E)	17	#4	3'-6"	
s21(E)	51	#4	4'-0"	
u20(E)	2	#5	9'-3"	
v20(E)	1	#5	4'-9"	
v100(E)	72	#5	3'-6"	

Item	Unit	Quantity
Protective Coat	Sq. Yd.	20
Concrete Superstructure	Cu. Yd.	10.4
Reinforcement Bars, Epoxy Coated	Pound	1,790

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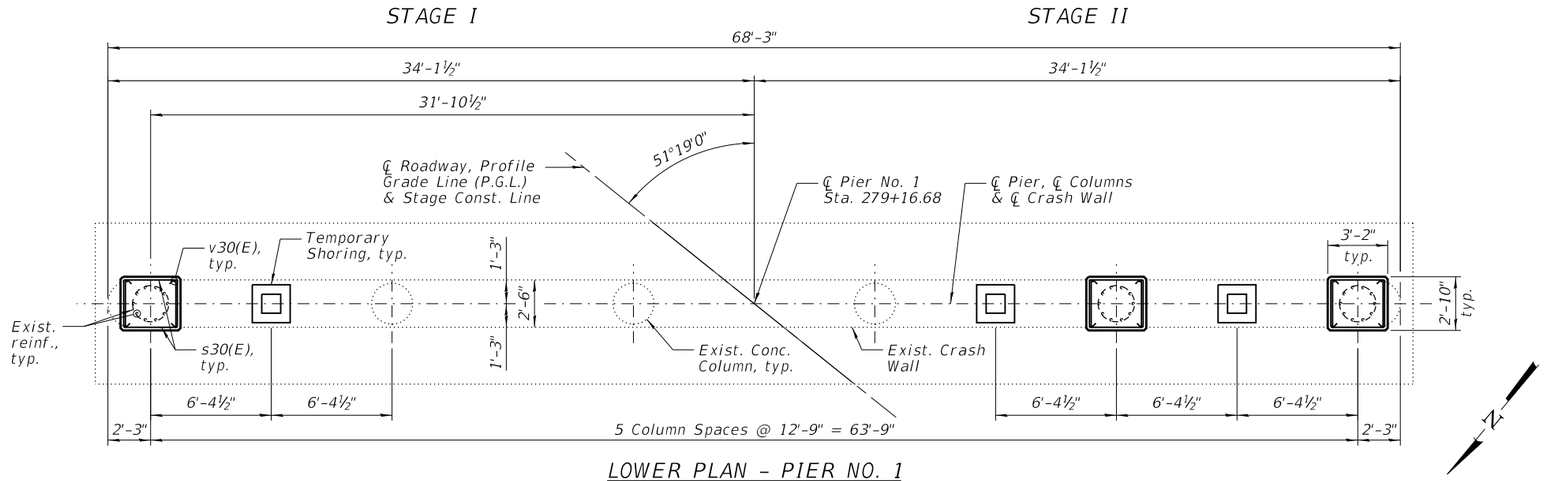
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT
STRUCTURE NO. 032-0075
SHEET NO. 30 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	51
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

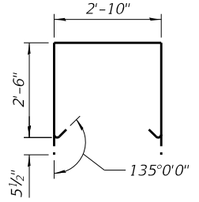


LOWER PLAN – PIER NO. 1

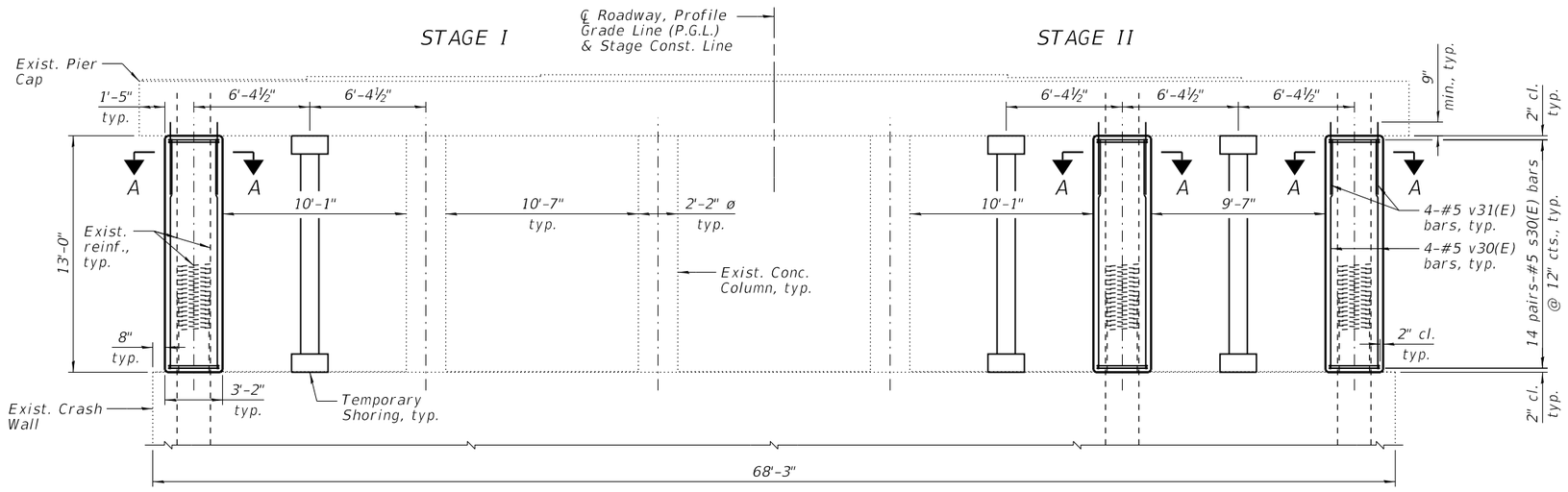
PIER NO. 1 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
s30(E)	84	#5	8'-9"	⊓
v30(E)	12	#5	12'-8"	—
v31(E)	12	#5	4'-0"	—

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	1.2
Concrete Structures	Cu. Yd.	7.4
Reinforcement Bars, Epoxy Coated	Pound	110
Temporary Shoring	Each	3

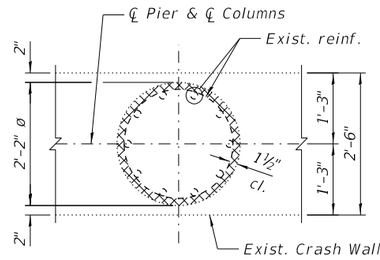


BAR s30(E)



ELEVATION – PIER NO. 1

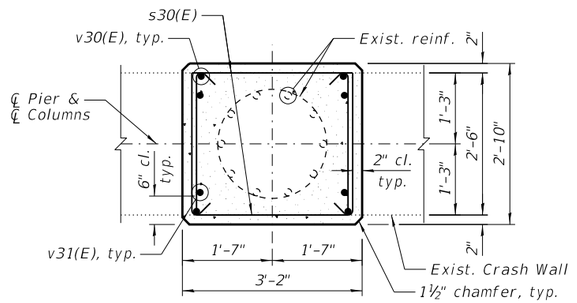
(Looking Southeast)



SECTION A-A REMOVAL

LEGEND

Concrete Removal



SECTION A-A PROPOSED

NOTES:

1.) Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with "Concrete Removal".
2.) Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost incidental to "Concrete Removal".
3.) Drill & grout #5 v31(E) bars 9" min. into existing concrete according to Section 584 of the Standard Specifications.
4.) The Contractor shall submit, for approval by the Engineer, plans for temporary shoring of the pier cap prior to commencing any related work for pier column repairs. See Special Provisions.
5.) Pier column repairs shall be completed after removal of existing deck but prior to construction of the concrete deck. Temporary shoring of the pier cap shall be in place prior to commencing any related work for pier column repairs. Temporary shoring shall remain in place as long as the pier column repair forms are required to remain in place, according to Article 503.06 of the Standard Specifications.
6.) Reaction due to DL Steel only, per girder = 17.7 kips. Each steel bearing assembly weighs 0.5 kips. The existing pier cap weighs 1.26 kips per linear foot.

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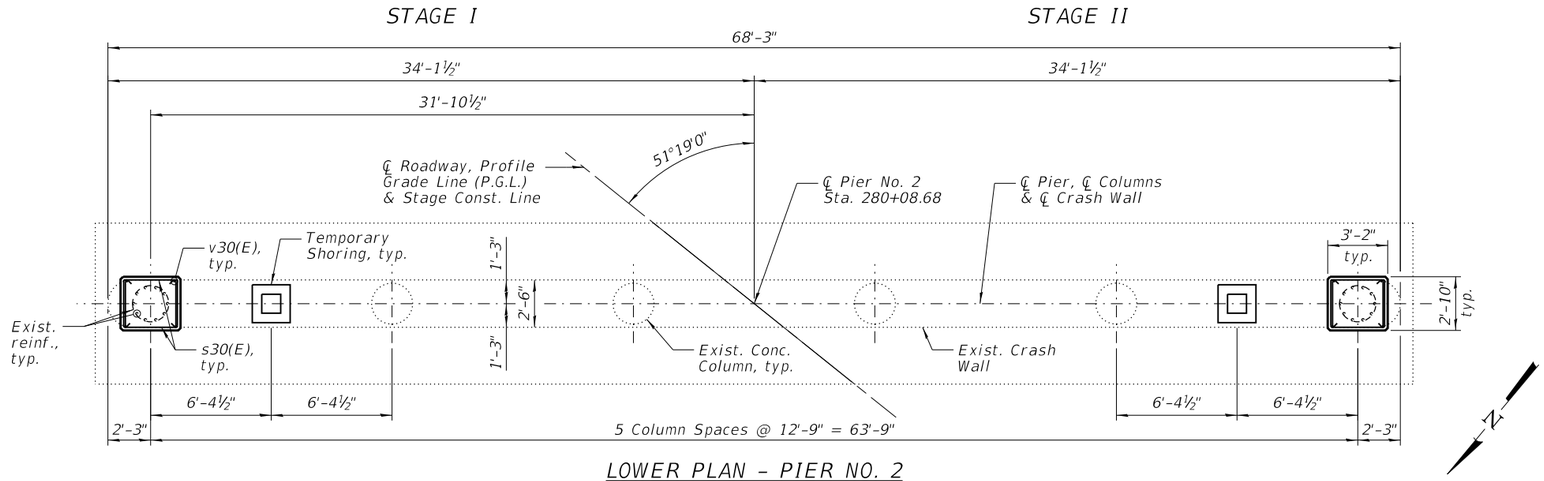
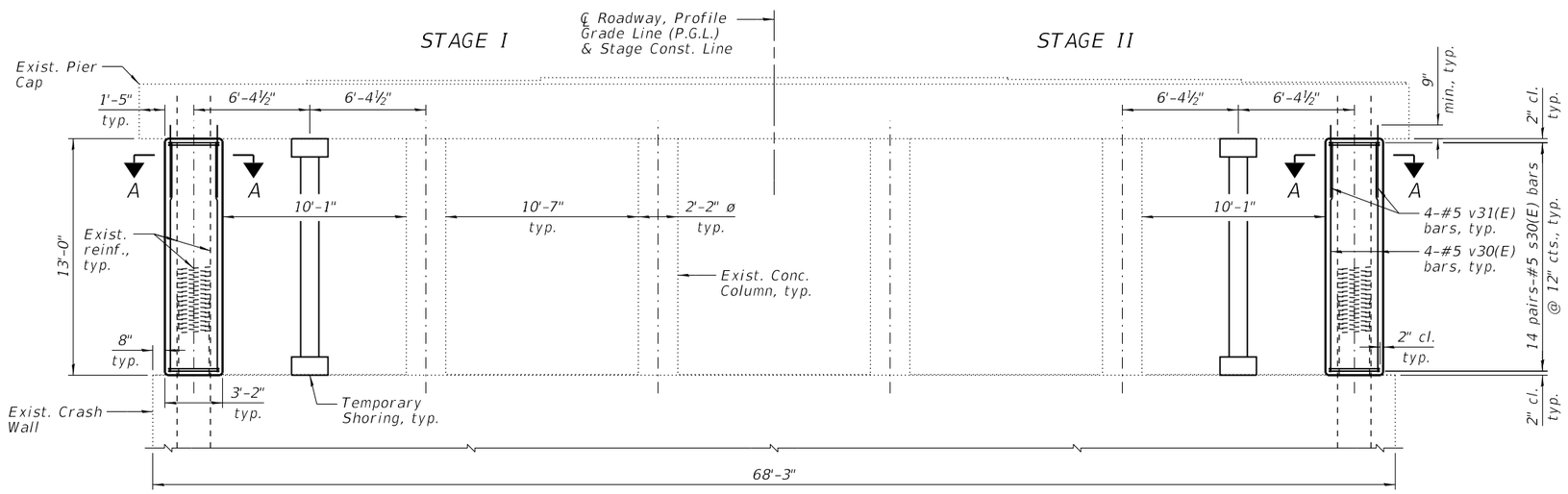
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER DETAILS
STRUCTURE NO. 032-0075
SHEET NO. 31 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	52
		CONTRACT NO. 66E45		
		ILLINOIS	FED. AID PROJECT	

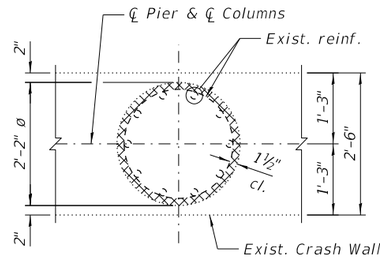


LOWER PLAN – PIER NO. 2



ELEVATION PIER NO. 2

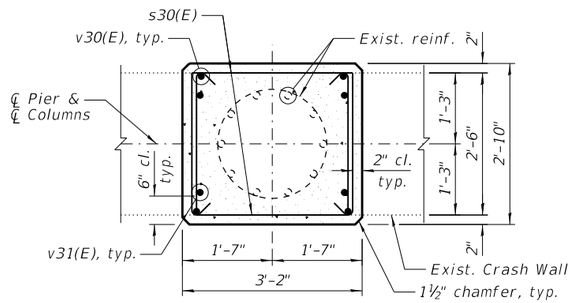
(Looking Southeast)



SECTION A-A REMOVAL

LEGEND

Concrete Removal

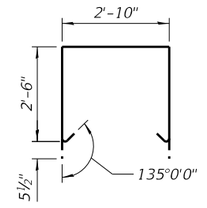


SECTION A-A PROPOSED

PIER NO. 2 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
s30(E)	56	#5	8'-9"	⊓
v30(E)	8	#5	12'-8"	—
v31(E)	8	#5	4'-0"	—

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	0.8
Concrete Structures	Cu. Yd.	5.0
Reinforcement Bars, Epoxy Coated	Pound	80
Temporary Shoring	Each	2



BAR s30(E)

NOTES:

1.) Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with "Concrete Removal".
2.) Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost incidental to "Concrete Removal".
3.) Drill & grout #5 v31(E) bars 9" min. into existing concrete according to Section 584 of the Standard Specifications.
4.) The Contractor shall submit, for approval by the Engineer, plans for temporary shoring of the pier cap prior to commencing any related work for pier column repairs. See Special Provisions.
5.) Pier column repairs shall be completed after removal of existing deck but prior to construction of the concrete deck. Temporary shoring of the pier cap shall be in place prior to commencing any related work for pier column repairs. Temporary shoring shall remain in place as long as the pier column repair forms are required to remain in place, according to Article 503.06 of the Standard Specifications.
6.) Reaction due to DL Steel only, per girder = 17.7 kips. Each steel bearing assembly weighs 0.5 kips. The existing pier cap weighs 1.26 kips per linear foot.

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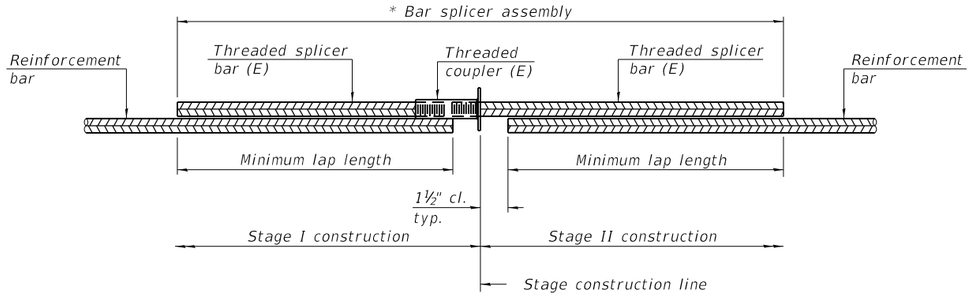
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER DETAILS
STRUCTURE NO. 032-0075
SHEET NO. 32 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	53
		CONTRACT NO. 66E45		
	ILLINOIS FED. AID PROJECT			



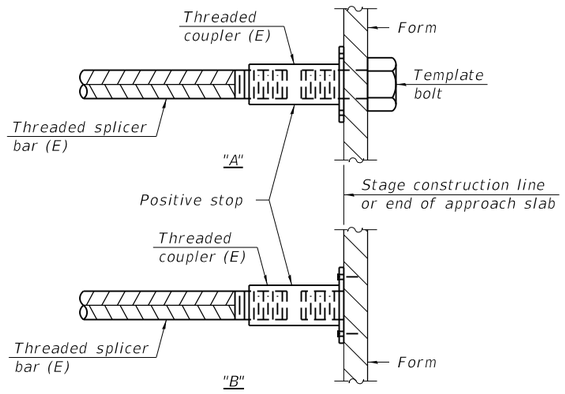
STANDARD BAR SPLICER ASSEMBLY PLAN

(All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1½" + thread length

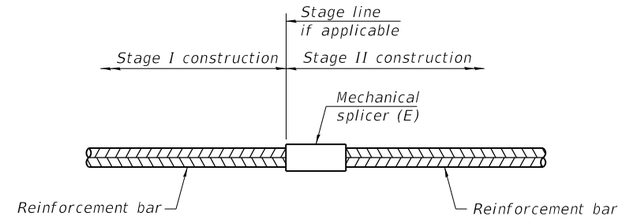
** Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.*

Location	Bar size	No. assemblies required	Minimum lap length
Deck, Top	#5	425	3'-6"
Deck, Bottom	#5	307	3'-6"
West End of Deck	#8	10	5'-11"
East End of Deck	#8	10	5'-11"
Two Approach Slabs, Top	#5	58	3'-4"
Two Approach Slabs, Bottom	#8	76	4'-9"
Two Approach Footings	#5	80	3'-0"
West Abutment Backwall	#6	4	4'-0"
East Abutment Backwall	#6	4	4'-0"



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

Notes:
Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
All reinforcement shall be lapped and tied to the splicer bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1 1-1-2020

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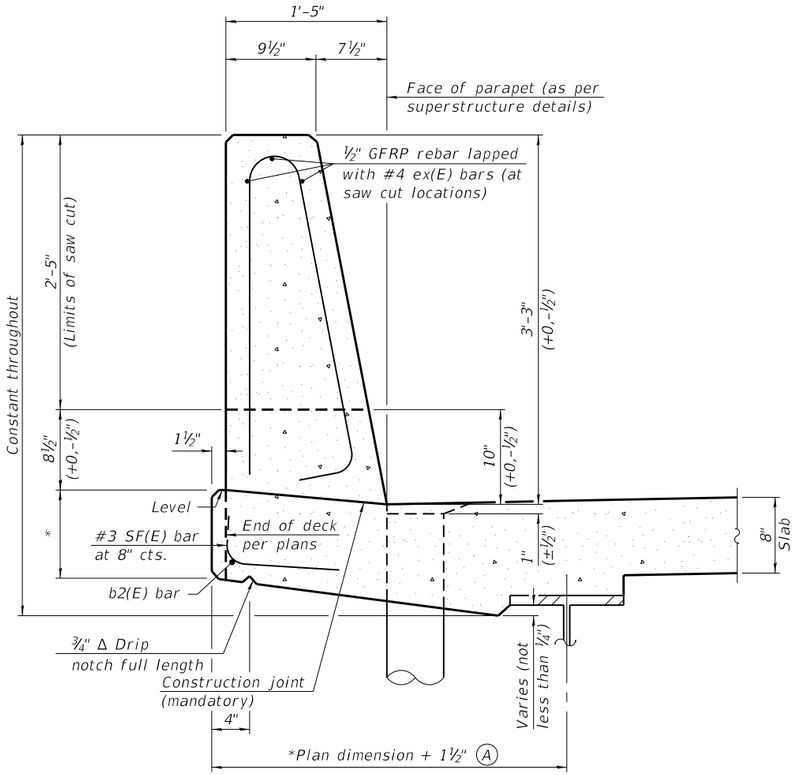
	DESIGNED - PMG	REVISED
	CHECKED - DAH	REVISED
	DRAWN - DJM	REVISED
DATE - 07/17/2020	CHECKED - JCZ	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 032-0075
SHEET NO. 33 OF 34 SHEETS

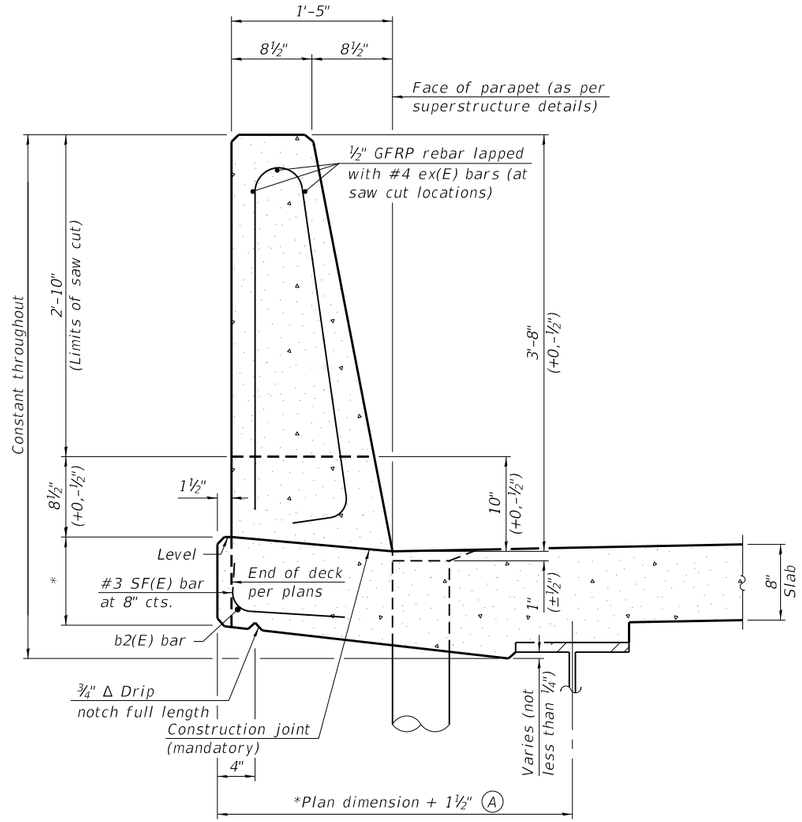
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	54
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		



39" CONSTANT-SLOPE PARAPET SECTION

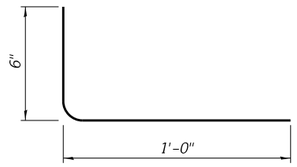
(Showing dimensions, d(E), and ½" Ø GFRP rebar)

*See Superstructure Details.

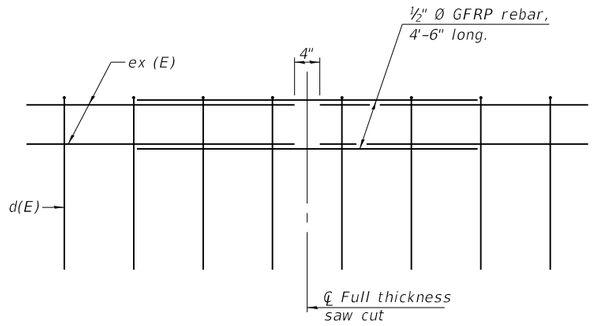


44" CONSTANT-SLOPE PARAPET SECTION

(Showing dimensions, d(E), and ½" Ø GFRP rebar)



#3 (E) BAR



GFRP REBAR STIFFENING DETAIL

(Place as shown in parapet section at each parapet joint location.)

Notes:

All dimensions shall remain the same as shown on superstructure details, except dimension A which is to be revised as shown. Additional concrete needed to revise dimension A = 0.00348 cu. yds./ft. for 39" and 44" parapets.

Place full depth aluminum sheets as shown on superstructure details.

Replace all cork joint filler locations with a full thickness saw cut.

Steel superstructure shown. Other superstructure types similar.

SFP 39-44 1-1-2020

Farnsworth GROUP
2709 McGRAW DRIVE
BLOOMINGTON, ILLINOIS 61704
(309) 663-8435 / Info@f-w.com

	DESIGNED - PMG	REVISED
	CHECKED - DAH	REVISED
	DRAWN - DJM	REVISED
DATE - 07/17/2020	CHECKED - JCZ	REVISED

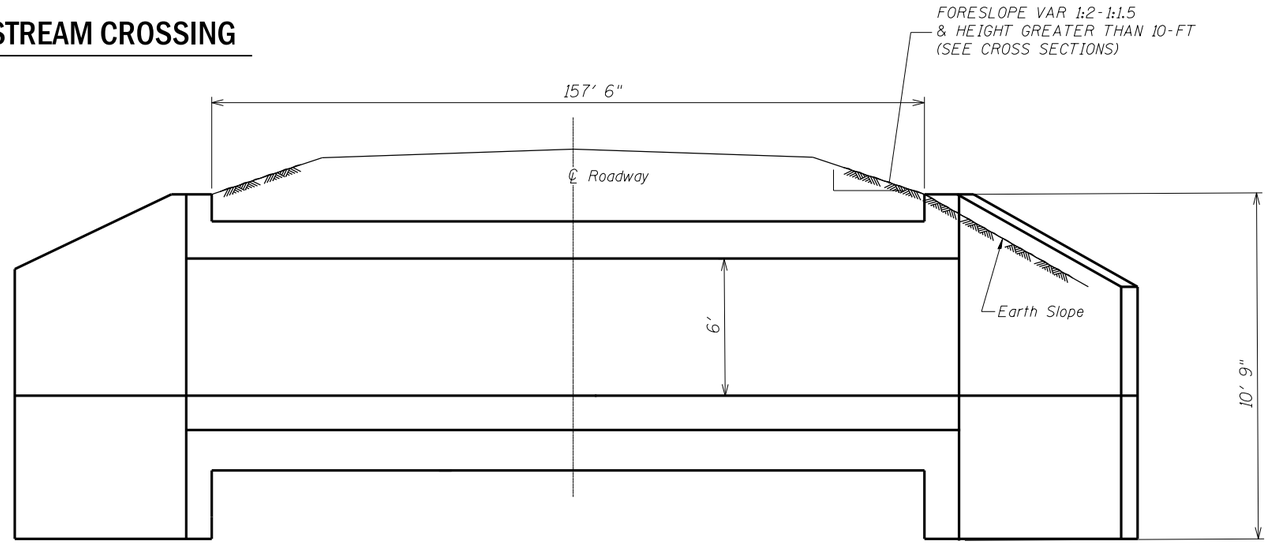
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

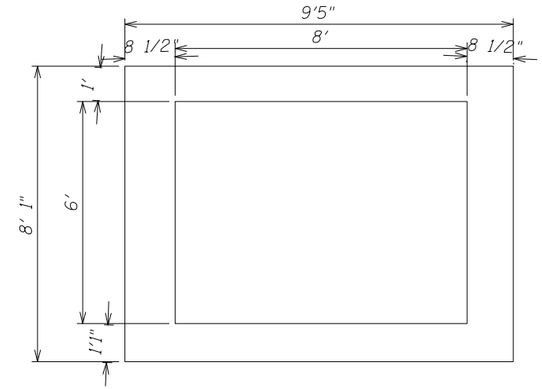
CONCRETE PARAPET SLIPFORMING OPTION
STRUCTURE NO. 032-0075

SHEET NO. 34 OF 34 SHEETS

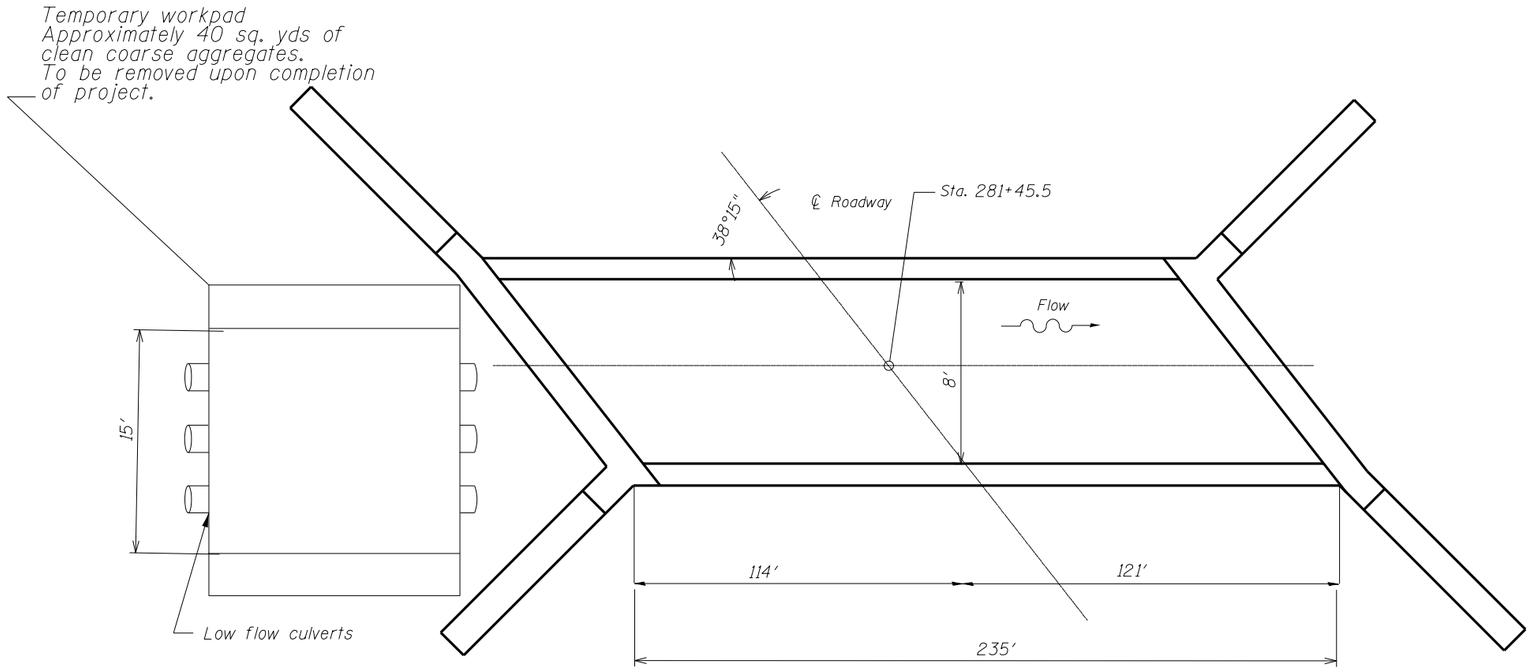
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	55
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

TEMPORARY STREAM CROSSING

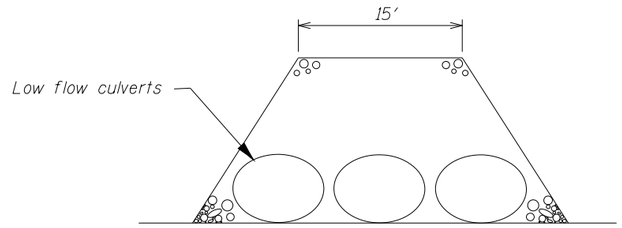




Section thru barrel



PLAN

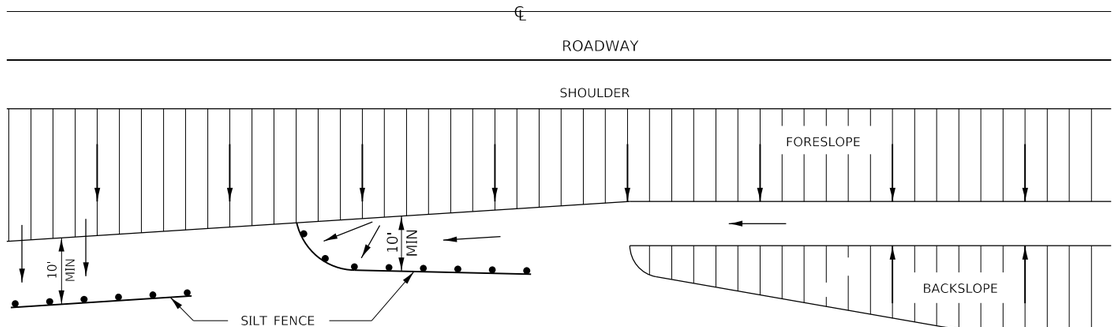


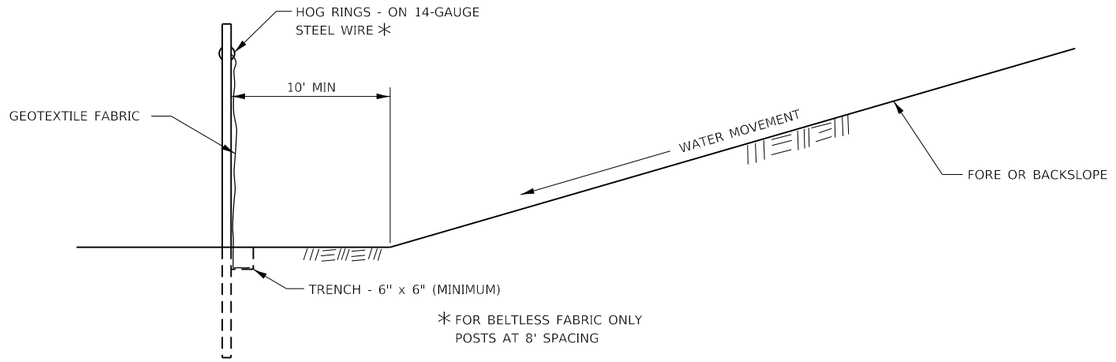
Section thru temporary workpad

Not to Scale

8'x6' Box Culvert
US 6 over Stream
Sta 281+45.50
Grundy County
Contract #66E45

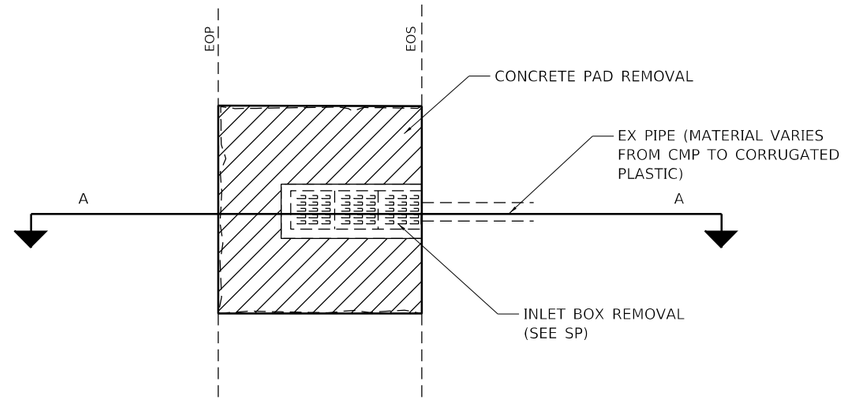
FILE NAME = c:\pw_work\pwidot\calderonl\d0419536\D366E45-sht-details.dgn	USER NAME = calderonl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY STREAM CROSSING DETAILS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000 ' / in.	DRAWN -	REVISED -			392	(G)VB-1	GRUNDY	85	56
	PLOT DATE = 8/19/2020	CHECKED -	REVISED -					CONTRACT NO. 66E45		
		DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		



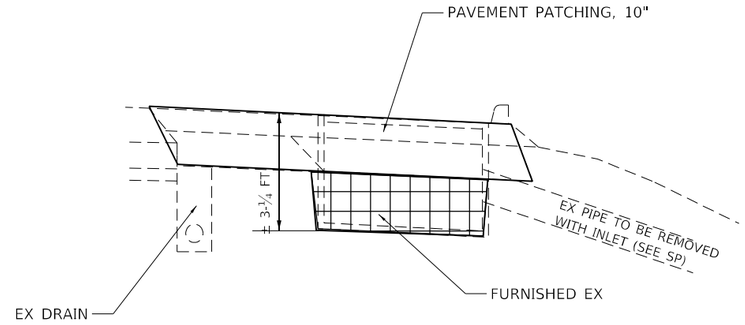


DETAILS OF SILT FENCE

EROSION CONTROL DETAILS FOR SILT FENCE



PLAN VIEW



REMOVAL SHALL NOT DISTURB THE EXISTING UNDERDRAIN

SECTION A-A

REMOVE INLET BOX & PATCHING DETAILS

NOT TO SCALE

FILE NAME = c:\pw_work\pwidot\calderonl\d0419536\D366E45-sht-details.dgn	USER NAME = calderonl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/19/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

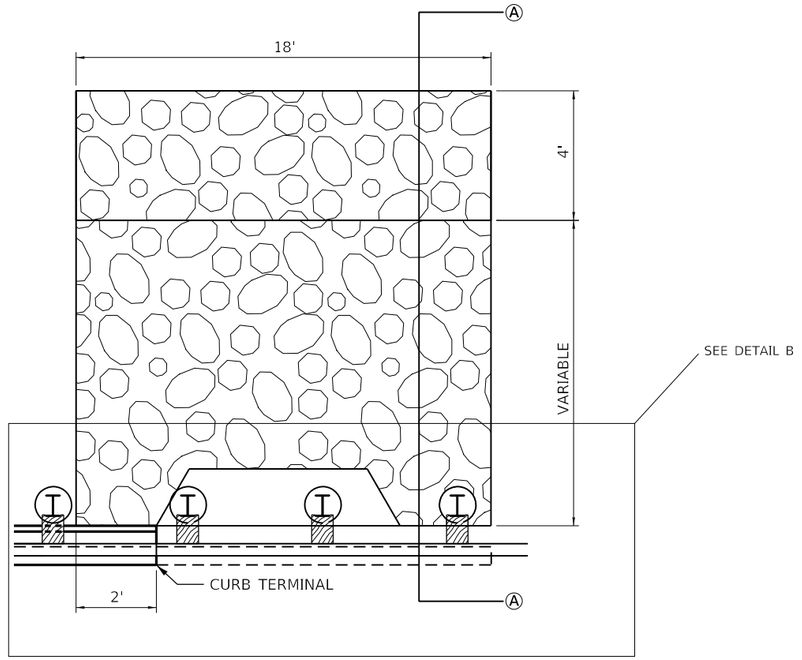
DETAILS

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

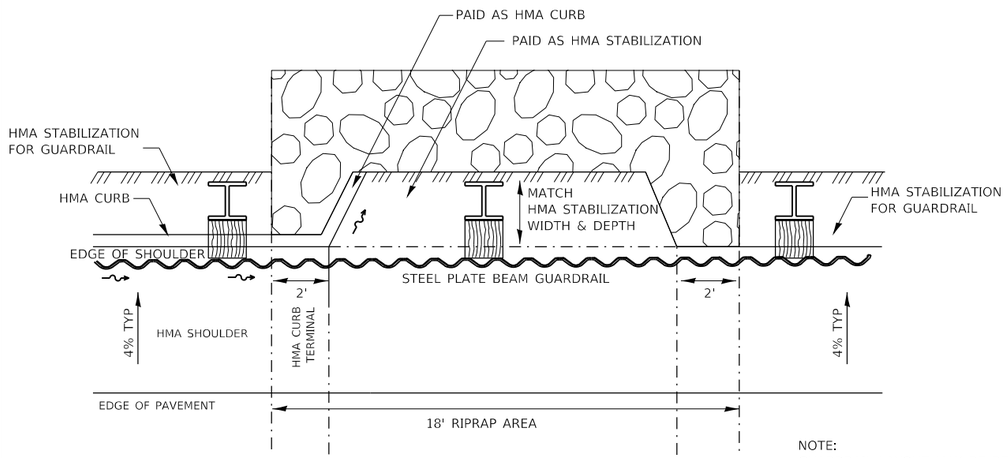
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	57

CONTRACT NO. 66E45

ILLINOIS FED. AID PROJECT



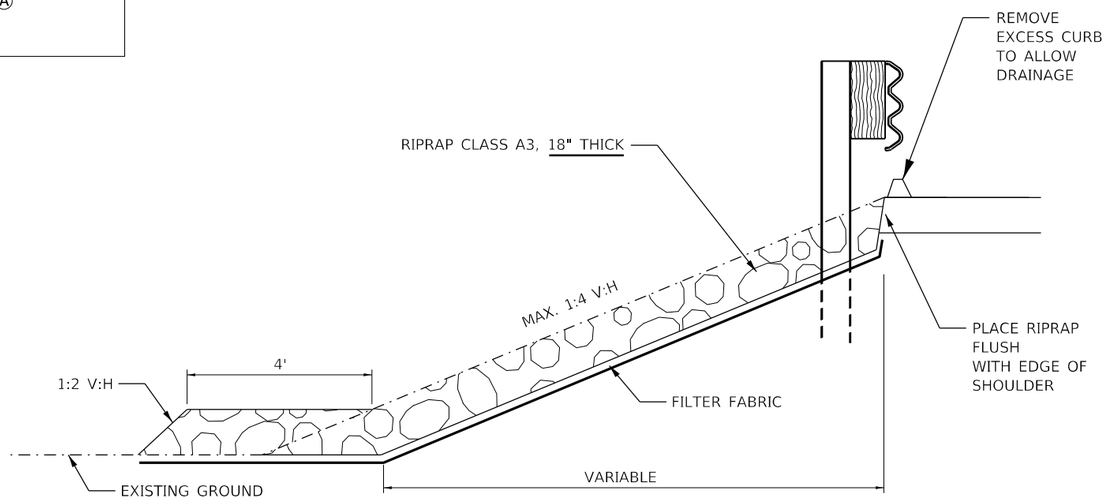
RIPRAP EMBANKMENT PLAN VIEW



NOTE:
GUARDRAIL LAYOUT MAY BE REQUIRED PRIOR
CONSTRUCTION OF OUTLET

DETAIL B

DRAINAGE OUTLET



SECTION A-A

RIPRAP EMBANKMENT DETAILS

NOT TO SCALE

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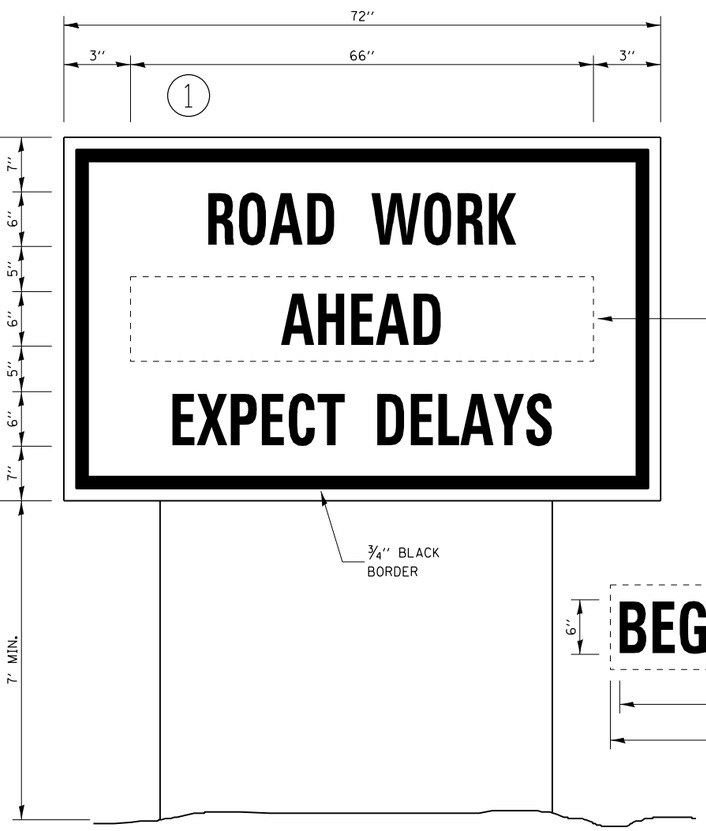
	PLOT DATE = 8/19/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

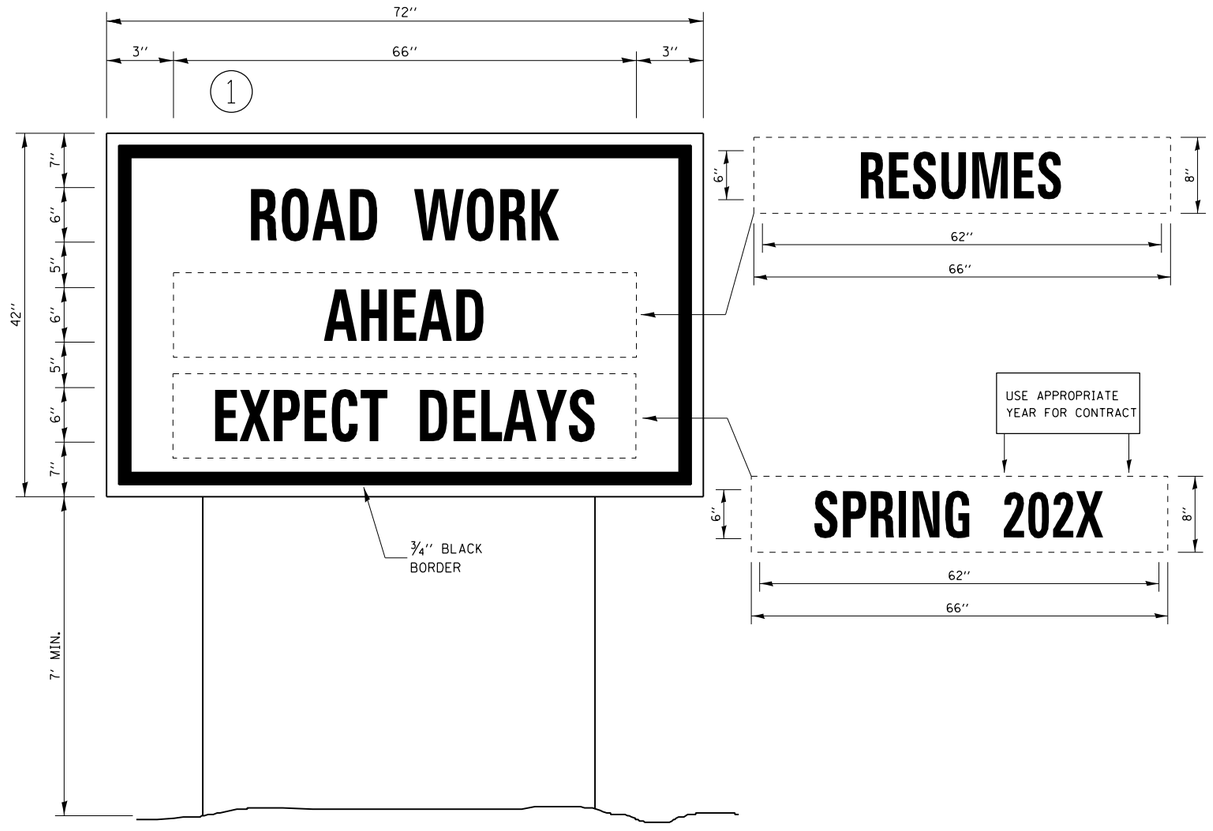
DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	58
		CONTRACT NO. 66E45		
		ILLINOIS FED. AID PROJECT		



TEMPORARY INFORMATION SIGNING



WINTER CLOSURE SIGNING

NOTES:

1. USE 6'' D BLACK LETTERING ON FLOURESENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE ''ROAD CONSTRUCTION AHEAD'' SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN (1) WITH INSTALLED PANEL (2) A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
4. REMOVE PANEL (2) ON THAT DATE.
5. SEE SPECIAL PROVISION ''TEMPORARY INFORMATION SIGNING'' FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS ''TEMPORARY INFORMATION SIGNING''. EACH SIGN = 21 SQ FT AND THE DATE PANEL (2) WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

FILE NAME = c:\pw_work\pwidot\calderonl\d0419536\D366E45-sht-details.dgn	USER NAME = calderonl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -
	PLOT DATE = 8/19/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS

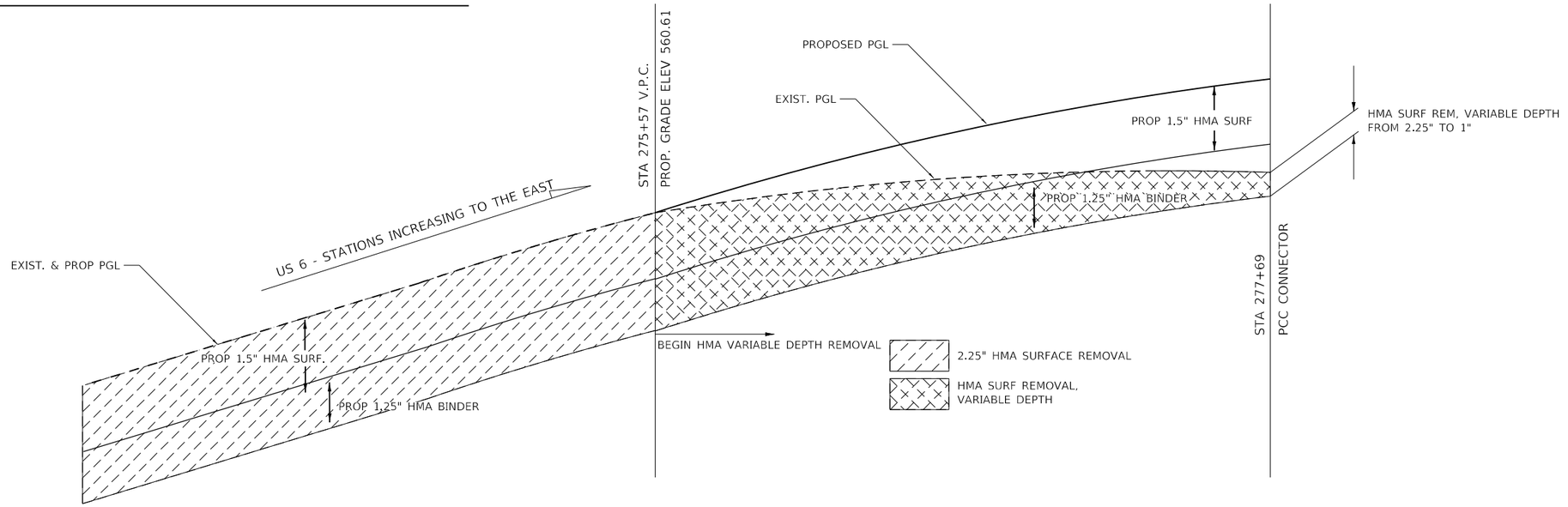
SCALE: | SHEET OF SHEETS | STA. | TO STA.

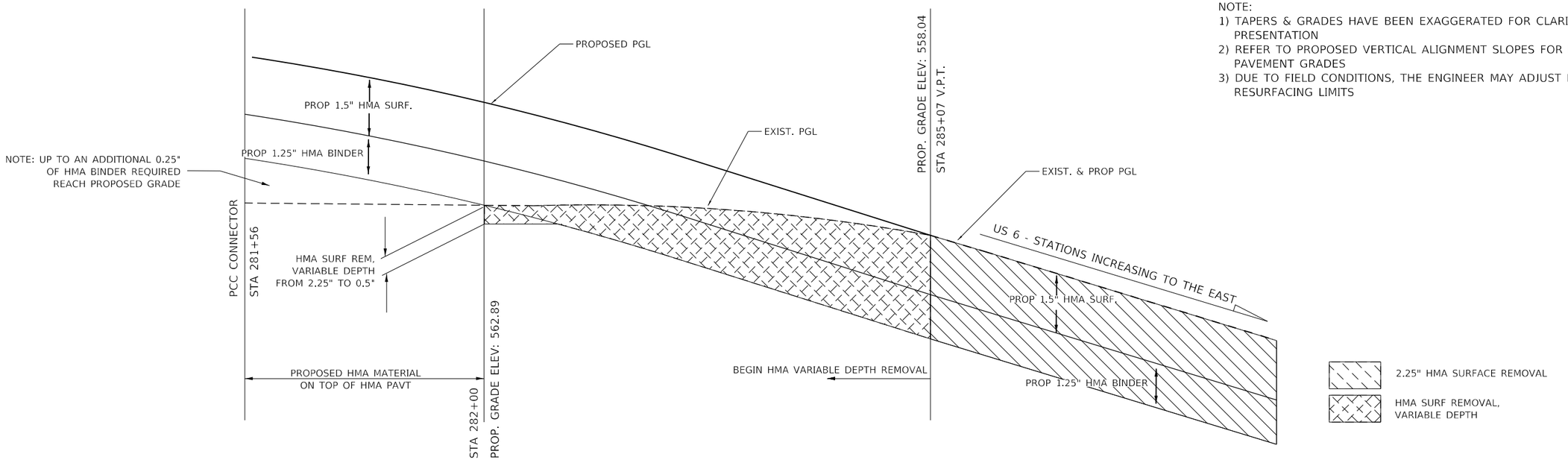
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	59

CONTRACT NO. 66E45

ILLINOIS | FED. AID PROJECT

HMA REMOVAL AND RESURFACING TAPERS FROM EXISTING TO PROPOSED PGL





NOTE:
1) TAPERS & GRADES HAVE BEEN EXAGGERATED FOR CLARITY OF PRESENTATION
2) REFER TO PROPOSED VERTICAL ALIGNMENT SLOPES FOR PROPOSED PAVEMENT GRADES
3) DUE TO FIELD CONDITIONS, THE ENGINEER MAY ADJUST MILLING AND RESURFACING LIMITS

FILE NAME = c:\pw_work\pwidot\calderonl\d0419536\D366E45-sht-details.dgn	USER NAME = calderonl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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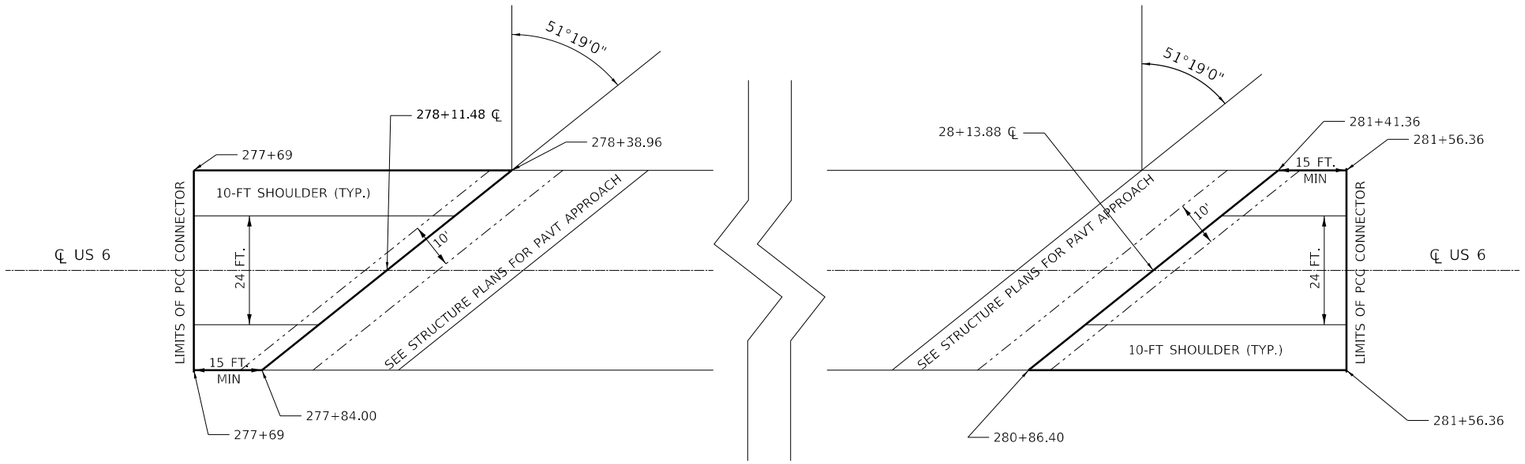
	PLOT DATE = 8/19/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

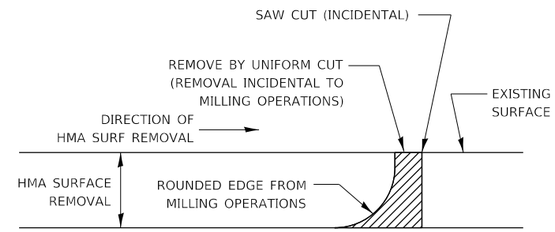
DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	60
		CONTRACT NO. 66E45		
	ILLINOIS FED. AID PROJECT			



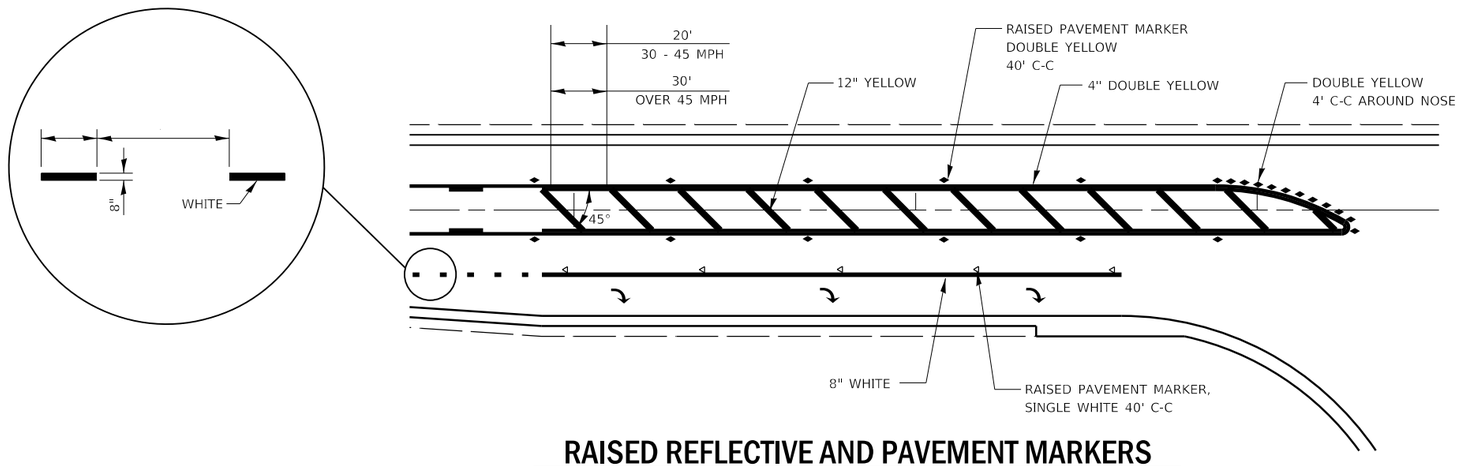
PCC CONNECTOR LAYOUT



NOTE:

WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL

HMA DETAIL AT BUTT JOINTS



RAISED REFLECTIVE AND PAVEMENT MARKERS @ RIGHT TURN LANE

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		DRAWN -	REVISED -
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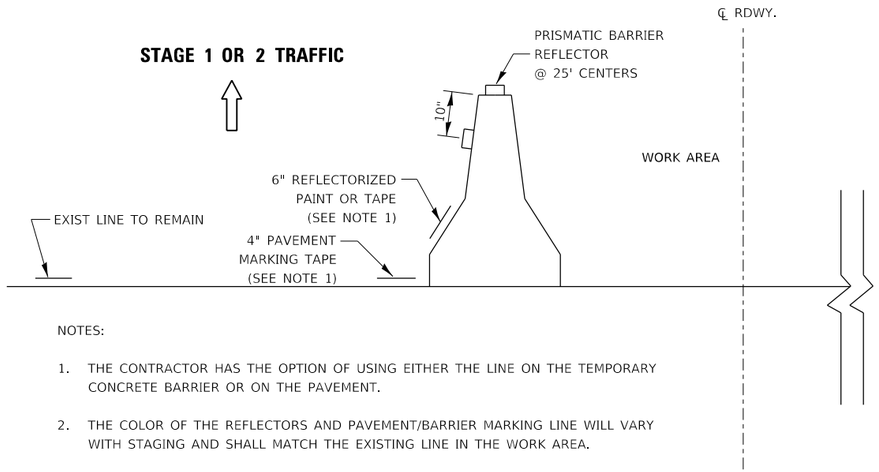
	PLOT DATE = 8/19/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS

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

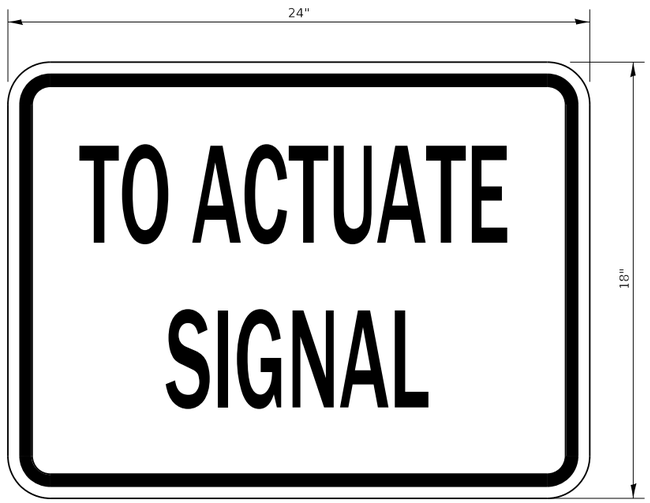
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	61
		CONTRACT NO. 66E45		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. THE CONTRACTOR HAS THE OPTION OF USING EITHER THE LINE ON THE TEMPORARY CONCRETE BARRIER OR ON THE PAVEMENT.
2. THE COLOR OF THE REFLECTORS AND PAVEMENT/BARRIER MARKING LINE WILL VARY WITH STAGING AND SHALL MATCH THE EXISTING LINE IN THE WORK AREA.
3. THE COST OF THE REFLECTORS AND THE PAVEMENT/BARRIER MARKING LINE IS INCLUDED IN THE COST OF THE TEMPORARY CONCRETE BARRIER.

TRAFFIC CONTROL DETAIL FOR TEMPORARY CONCRETE BARRIER 2L,2W STAGED CONSTRUCTION



SIZE: 24" x 18"

4" CAPITAL LETTERS - BLACK

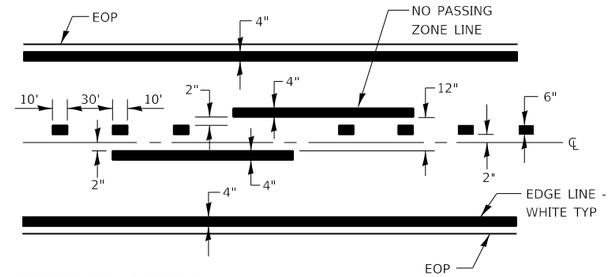
½" BORDER - BLACK

WHITE REFLECTIVE - TYPE AP SHEETING

GENERAL NOTE:

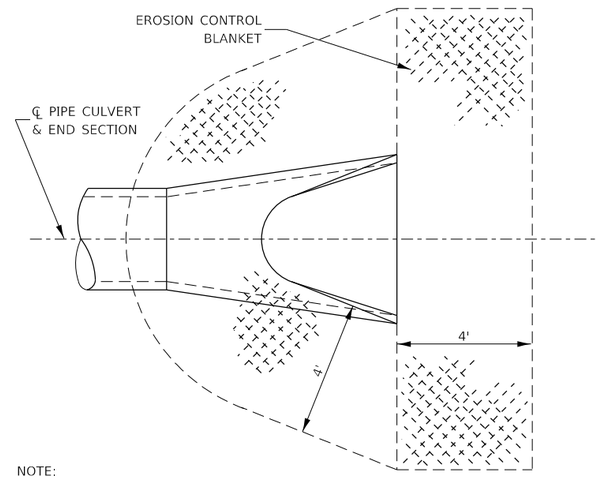
THIS SIGN SHALL BE INSTALLED AT THE STOP LINE AS DIRECTED BY THE ENGINEER.

STOP LINE SIGN FOR TEMPORARY SIGNALS



CENTERLINE & NO PASSING
ZONE LINES - YELLOW

PAVEMENT MARKING



NOTE:
TO BE USED AT ALL END SECTIONS

DETAIL OF EROSION CONTROL BLANKET LINING AROUND END SECTION

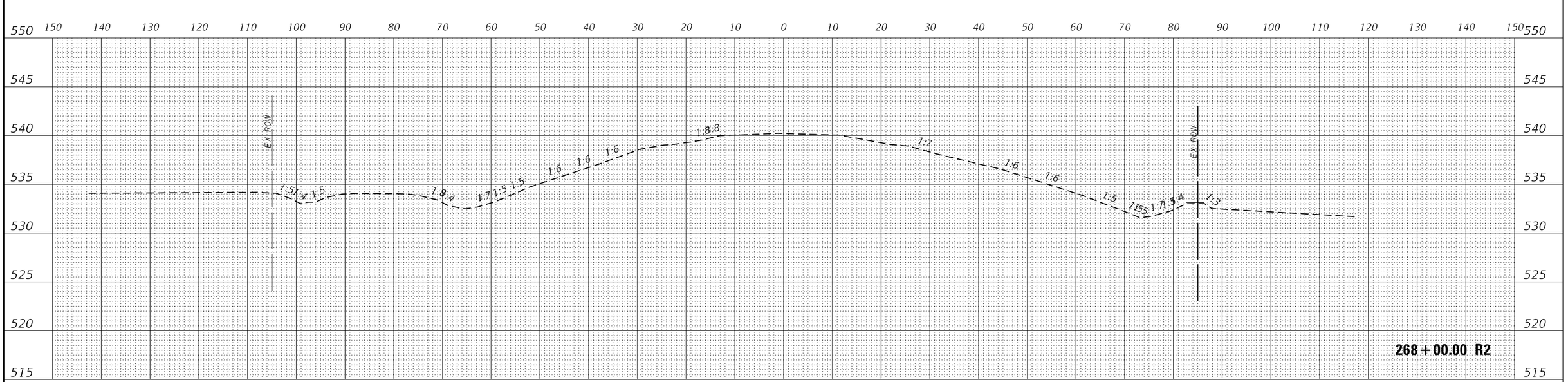
FILE NAME = c:\pw_work\pwidot\calderonl\d0419536\D366E45-sht-details.dgn	USER NAME = calderonl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/19/2020	DATE -	REVISED -

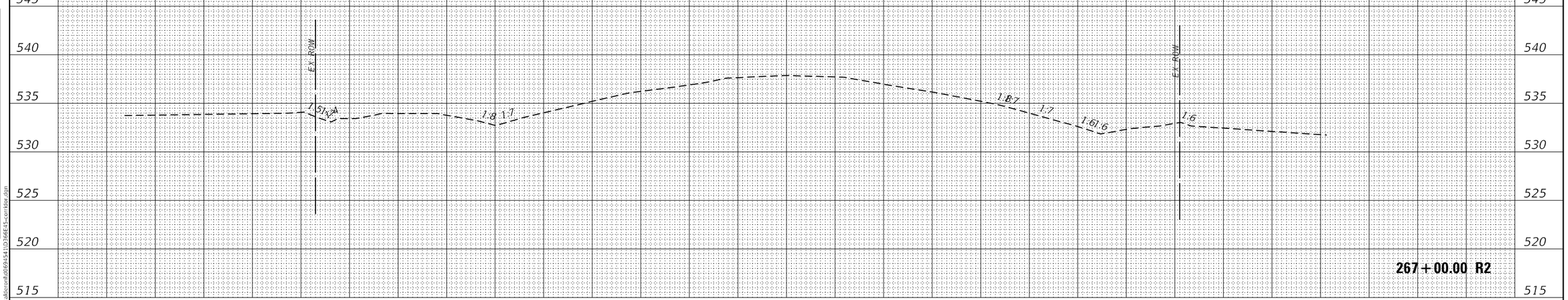
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	62
		CONTRACT NO. 66E45		
		ILLINOIS FED. AID PROJECT		





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	DRAWN -	REVISED -	
PLOT SCALE = 20.0009 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/19/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

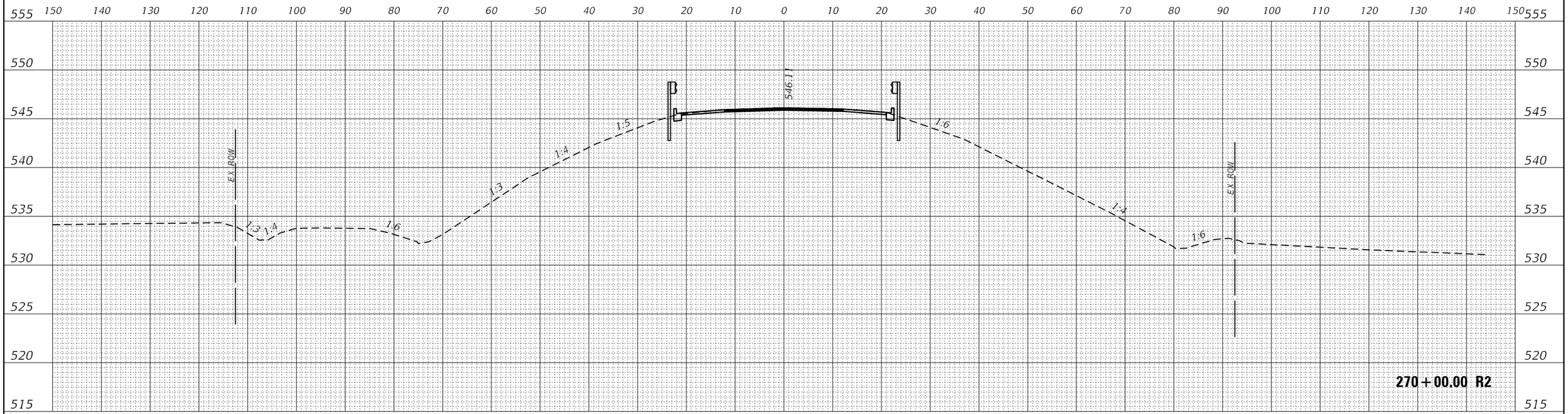
US 6
CROSS SECTIONS

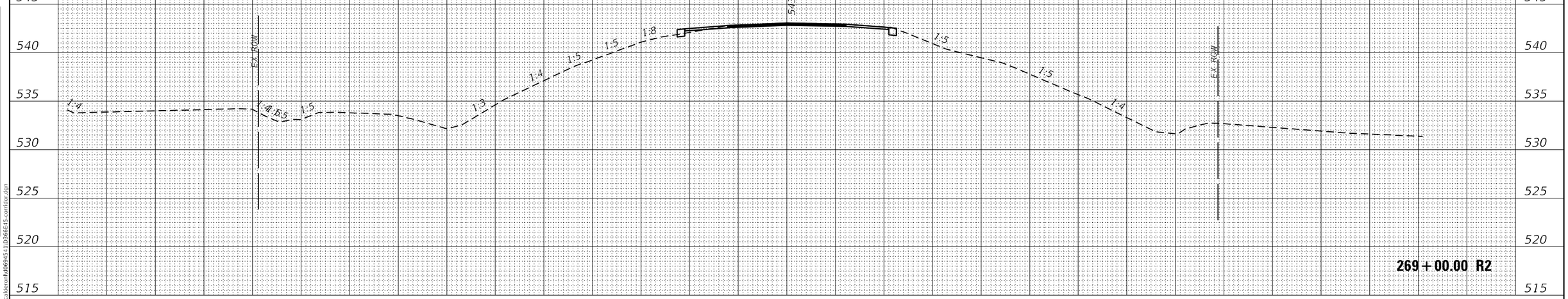
SCALE: | SHEET OF SHEETS | STA. 267+00.00 R2 TO STA. 268+00.00 R2

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	63
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY / ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

MODEL: $MODELNAMES
FILE NAME: c:\pw_work\dot\calderonl\d0694541\D366E45-corridor.dgn





USER NAME = calderonl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 20.0009 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/19/2020	DATE -	REVISED -	

US 6
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 269+00.00 R2 TO STA. 270+00.00 R2

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	64
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

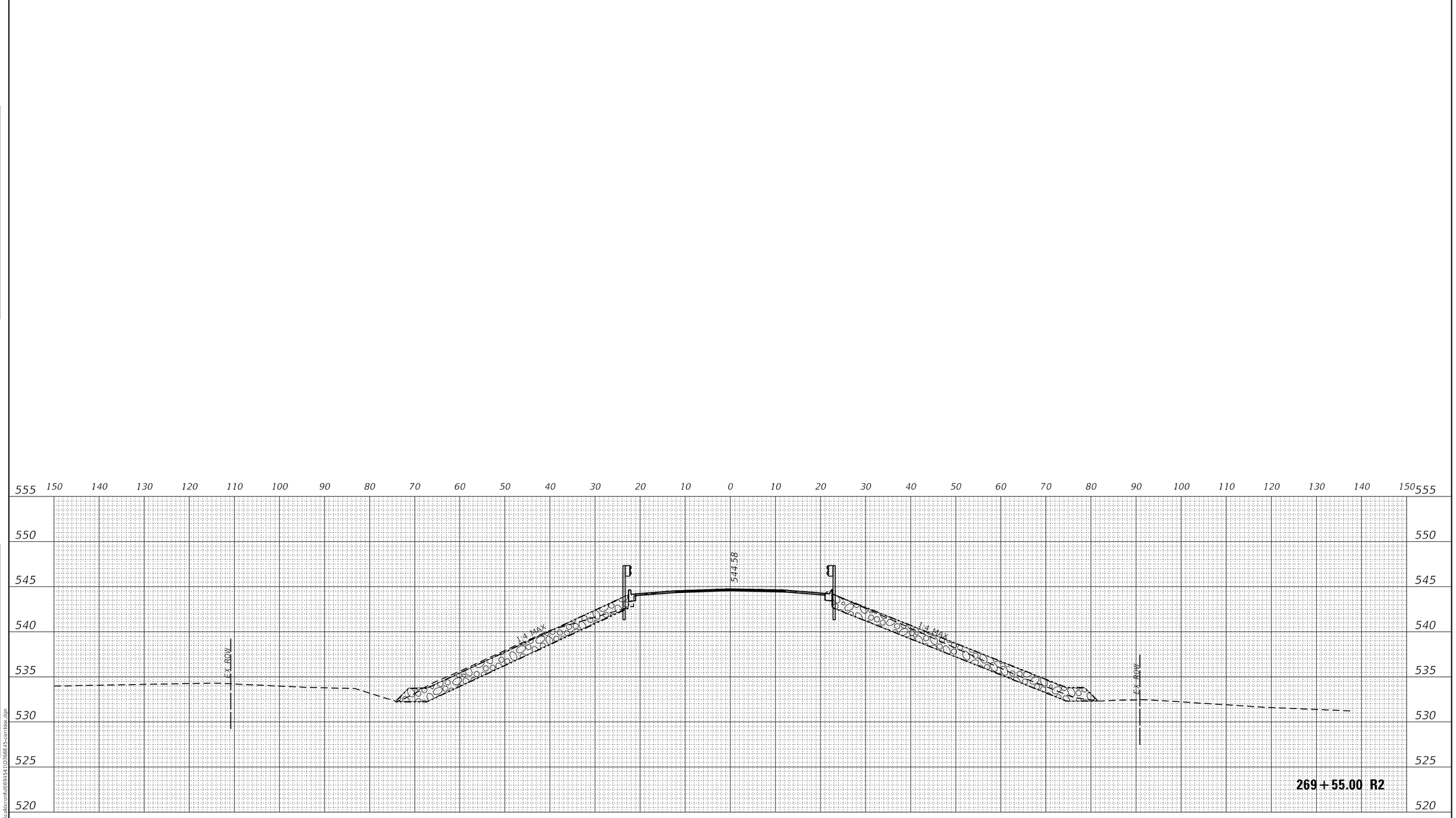
FINAL SURVEY — NOTE BOOK — NO. — BY — DATE
SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED

ORIGINAL SURVEY — NOTE BOOK — NO. — BY — DATE
SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED

MODEL: SMODELNAMES
FILE NAME: c:\pw_work\dot\dotcalderonl\d0694541\D366645-corridor.dgn

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



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	DRAWN -	REVISED -
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PLOT DATE = 8/19/2020	DATE -	REVISED -

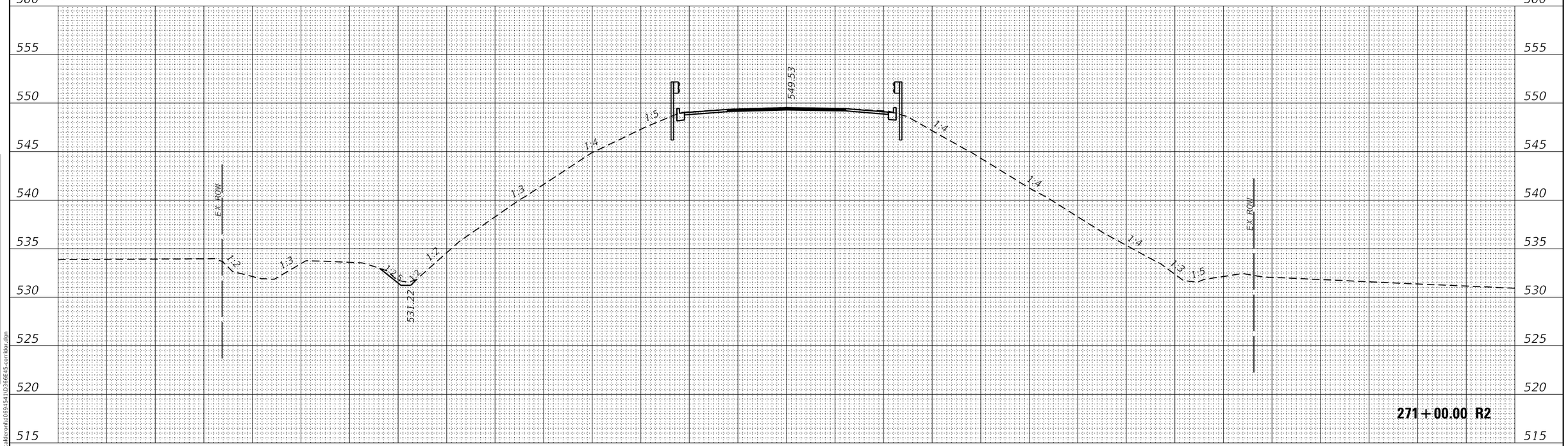
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 269+55.00 R2 TO STA. 269+55.00 R2

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	65
		CONTRACT NO. 66E45		
		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

MODEL: $MODELNAME$
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USER NAME = calderonl	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0009 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/19/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

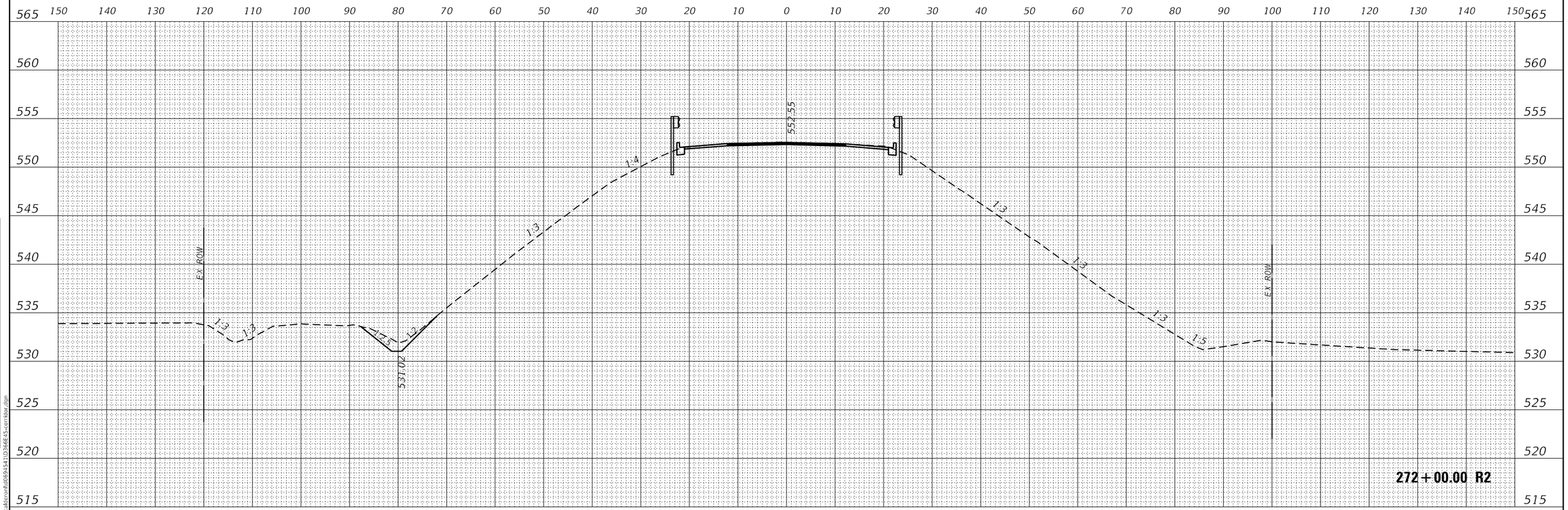
US 6
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 271+00.00 R2 TO STA. 271+00.00 R2

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	66
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	
NOTE BOOK	
NO.	

		DATE
SURVEYED		BY
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		



ORIGINAL SURVEY	
NOTE BOOK	
NO.	

		DATE
SURVEYED		BY
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

MODEL: $MODELNAME$
FILE NAME: c:\pw_work\dot\calderonl\d0694541\D366E45-corridor.dgn

USER NAME = calderonl	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0009 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/19/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

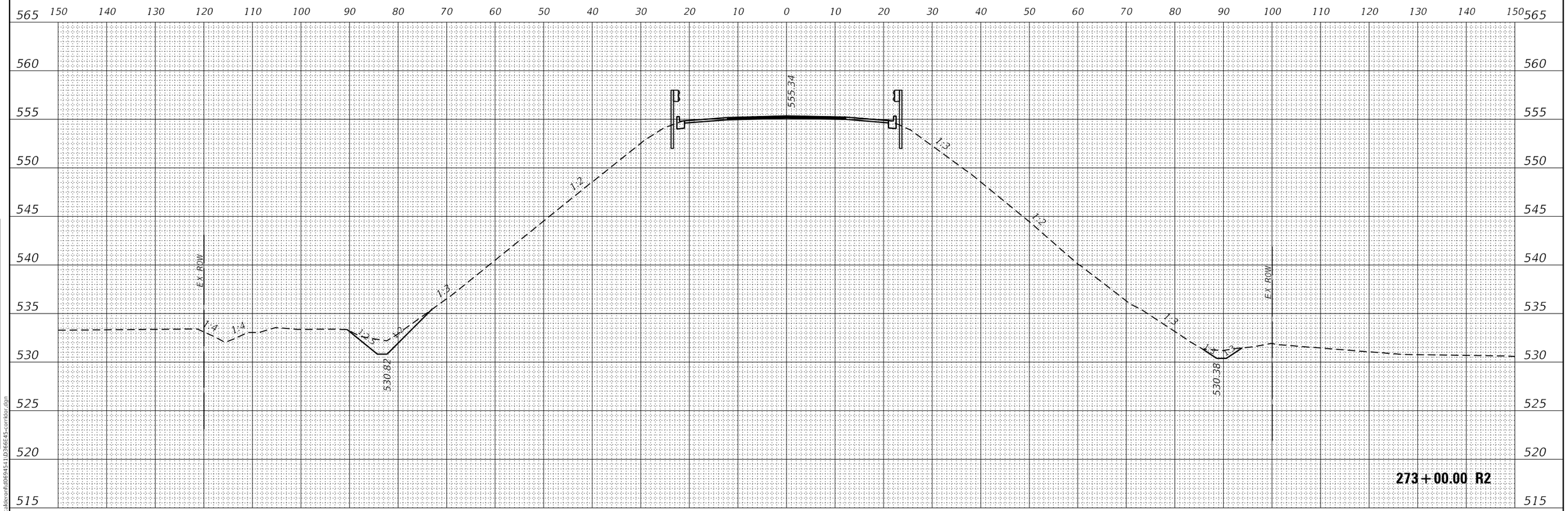
US 6
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 272+00.00 R2 TO STA. 272+00.00 R2

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	67
		CONTRACT NO. 66E45		
		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



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	DRAWN -	REVISED -	
PLOT SCALE = 20.0009 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/19/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 273+00.00 R2 TO STA. 273+00.00 R2

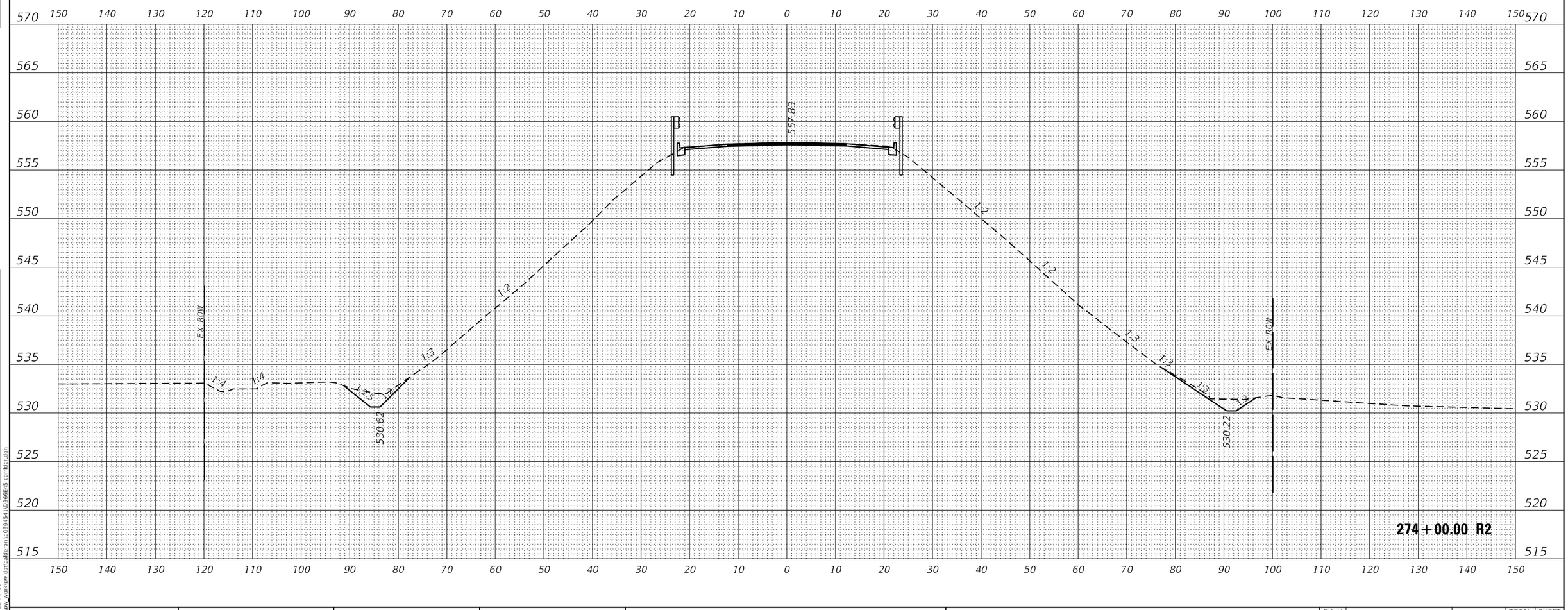
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	68
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	
NOTE BOOK	
NO.	

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	
NOTE BOOK	
NO.	

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		



USER NAME = calderonl	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0009 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/19/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 274+00.00 R2 TO STA. 274+00.00 R2

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	69
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

MODEL: $MODELNAME$
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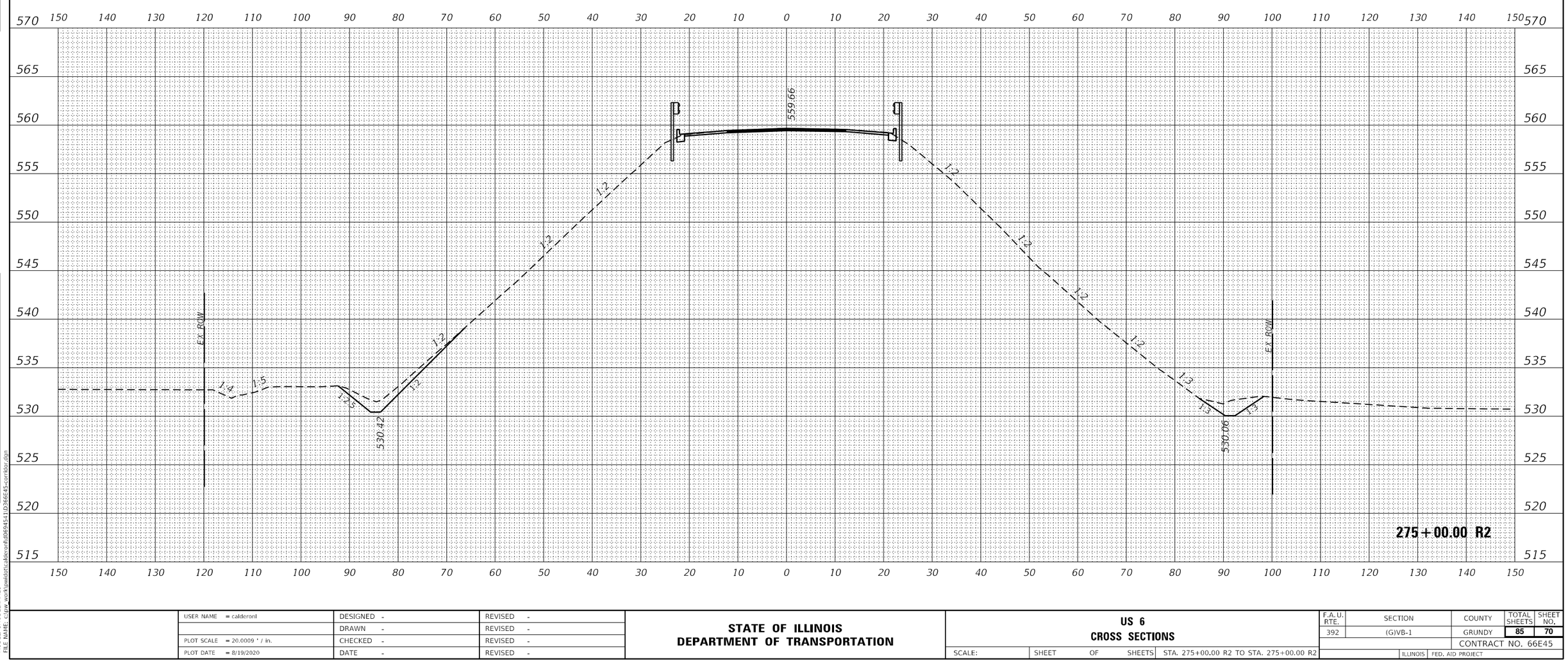
FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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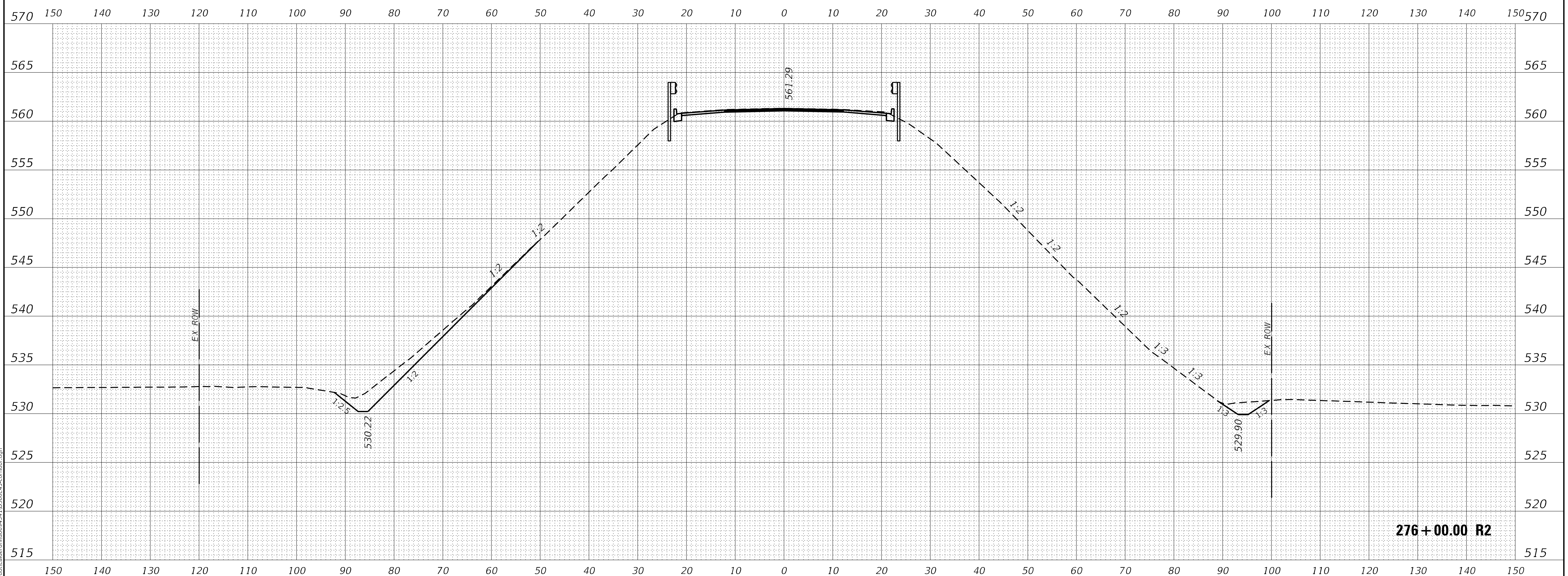
	DRAWN -	REVISED -	
PLOT SCALE = 20.0009 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/19/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 275+00.00 R2 TO STA. 275+00.00 R2

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	70
		CONTRACT NO. 66E45		
		ILLINOIS	FED. AID PROJECT	



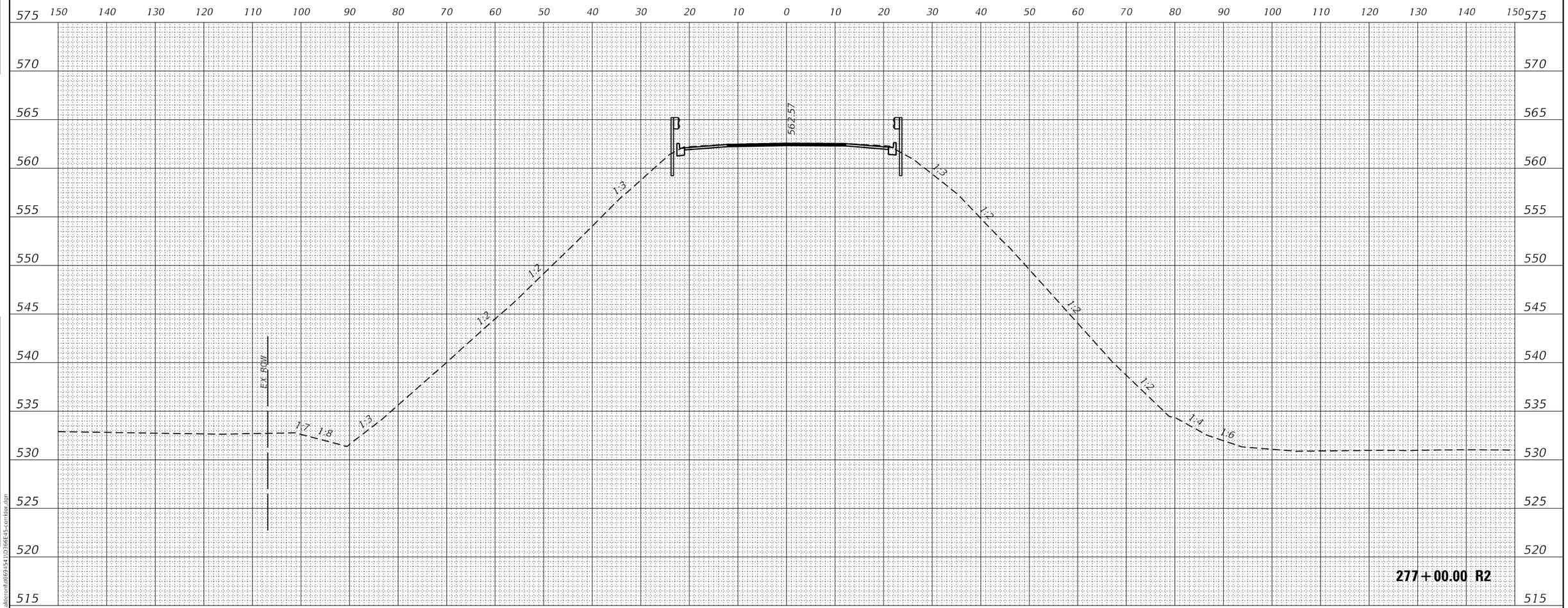
USER NAME = calderonl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 6 CROSS SECTIONS
	DRAWN -	REVISED -		
PLOT SCALE = 20.0009 ' / in.	CHECKED -	REVISED -		
PLOT DATE = 8/19/2020	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. 276+00.00 R2 TO STA. 276+00.00 R2

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	71
CONTRACT NO. 66E45				
ILLINOIS FED. AID PROJECT				

MODEL: $MODELNAME$
FILE NAME: c:\pw_work\pwidot\calderonl\d0694541\D366E45-corridor.dgn

FINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	



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USER NAME = calderonl	DESIGNED -	REVISED -
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PLOT SCALE = 20.0009 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/19/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 277+00.00 R2 TO STA. 277+00.00 R2

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	72
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	
NOTE BOOK	
NO.	

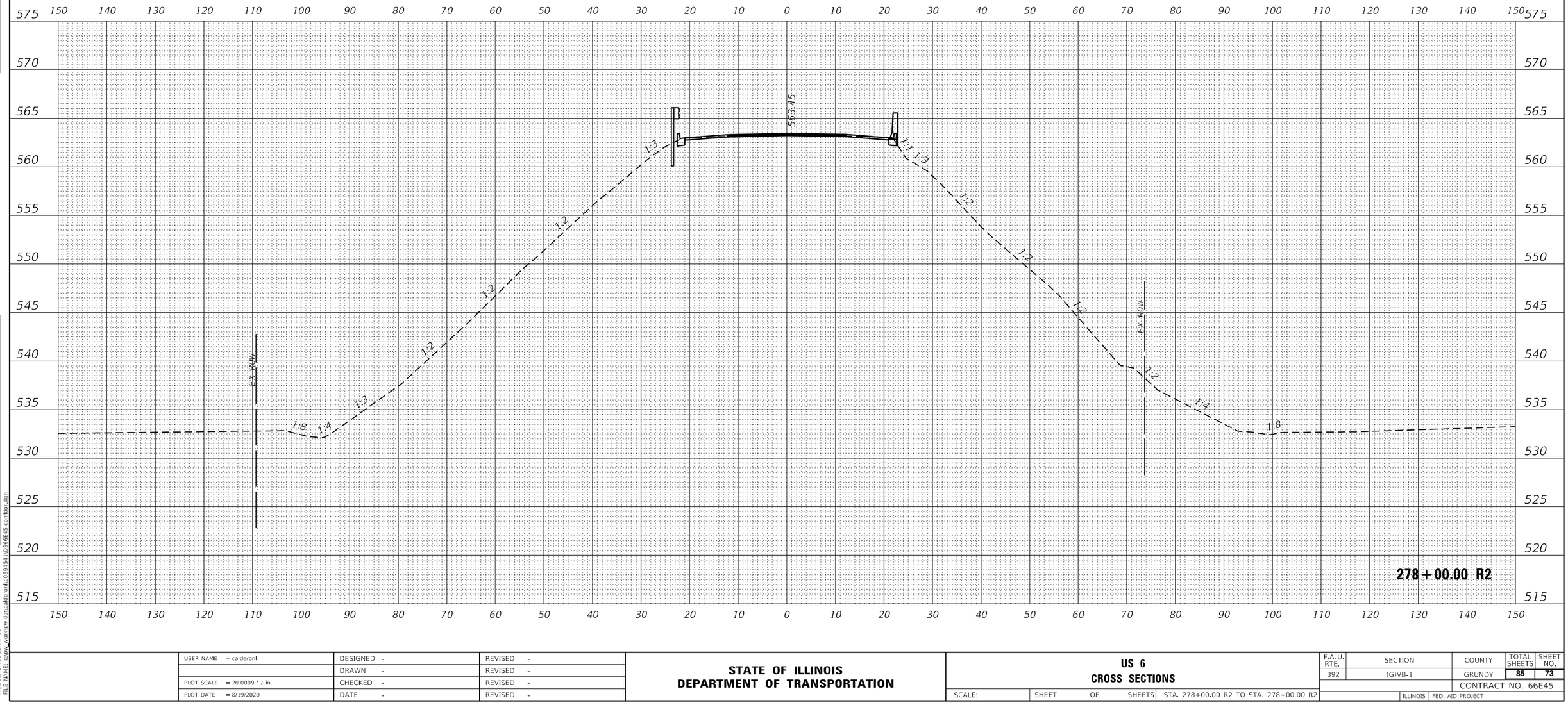
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	

BY	DATE

ORIGINAL SURVEY	
NOTE BOOK	
NO.	

SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	

BY	DATE



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USER NAME = calderonl	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0009 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/19/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6
CROSS SECTIONS

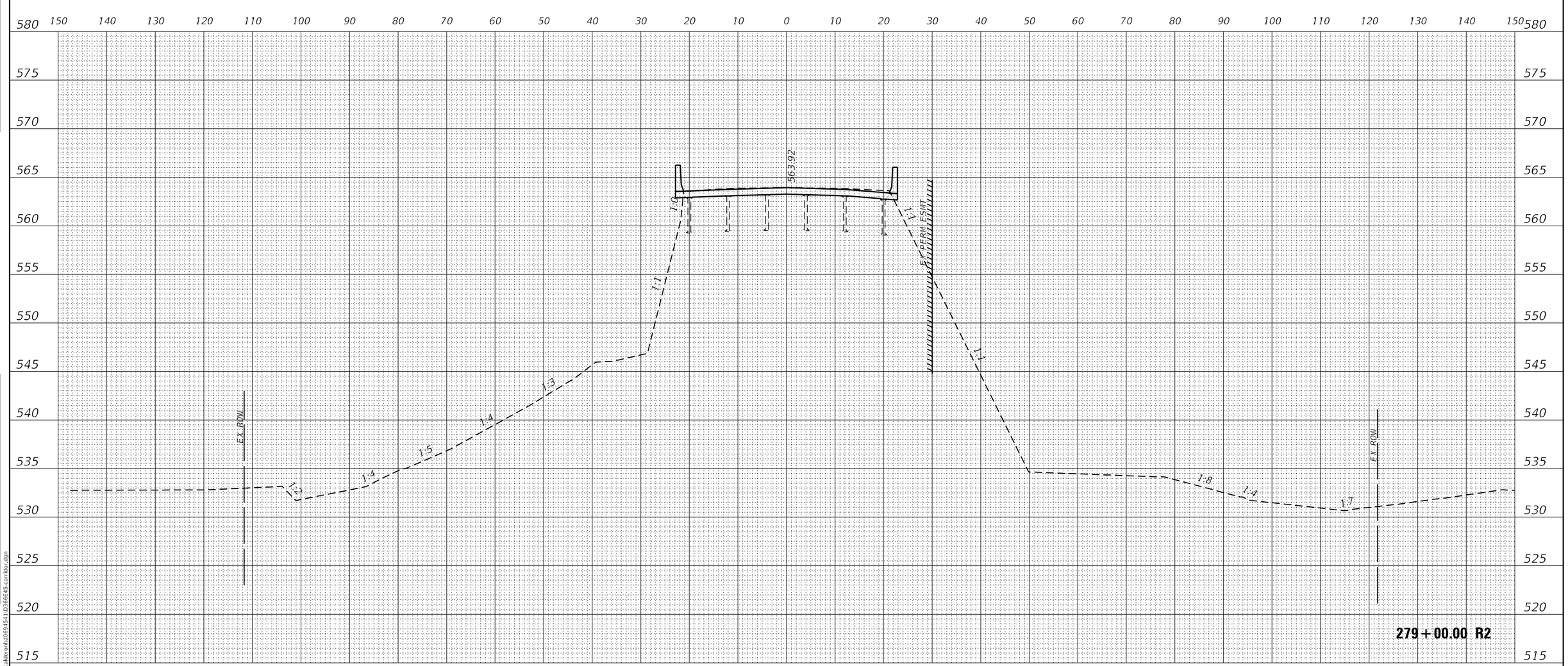
SCALE: | SHEET OF SHEETS | STA. 278+00.00 R2 TO STA. 278+00.00 R2

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	73
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

NOTE BOOK
NO.



ORIGINAL SURVEY

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

NOTE BOOK
NO.

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USER NAME = calderonl	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0009 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/19/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

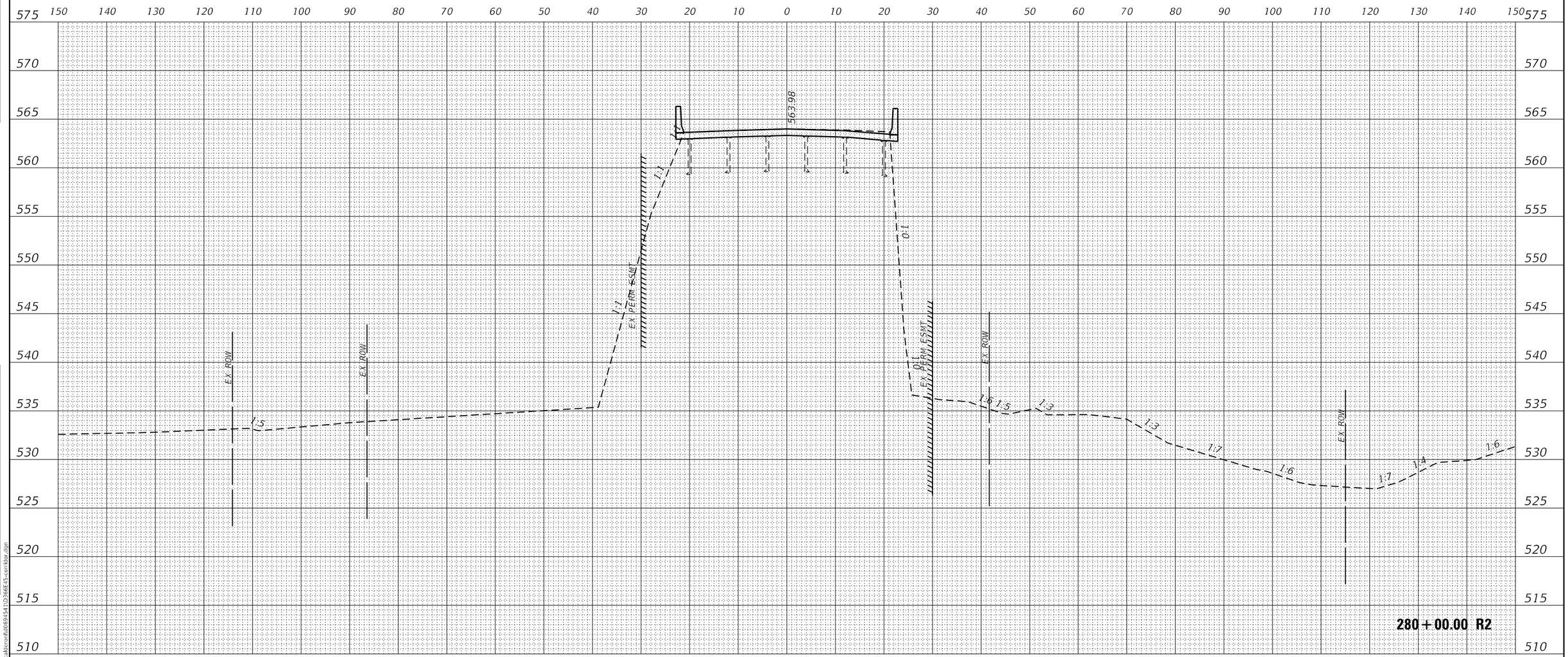
US 6
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 279+00.00 R2 TO STA. 279+00.00 R2

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	74
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
NO.	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
NO.	AREAS CHECKED	



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USER NAME = calderonl	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0009 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/19/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 280+00.00 R2 TO STA. 280+00.00 R2

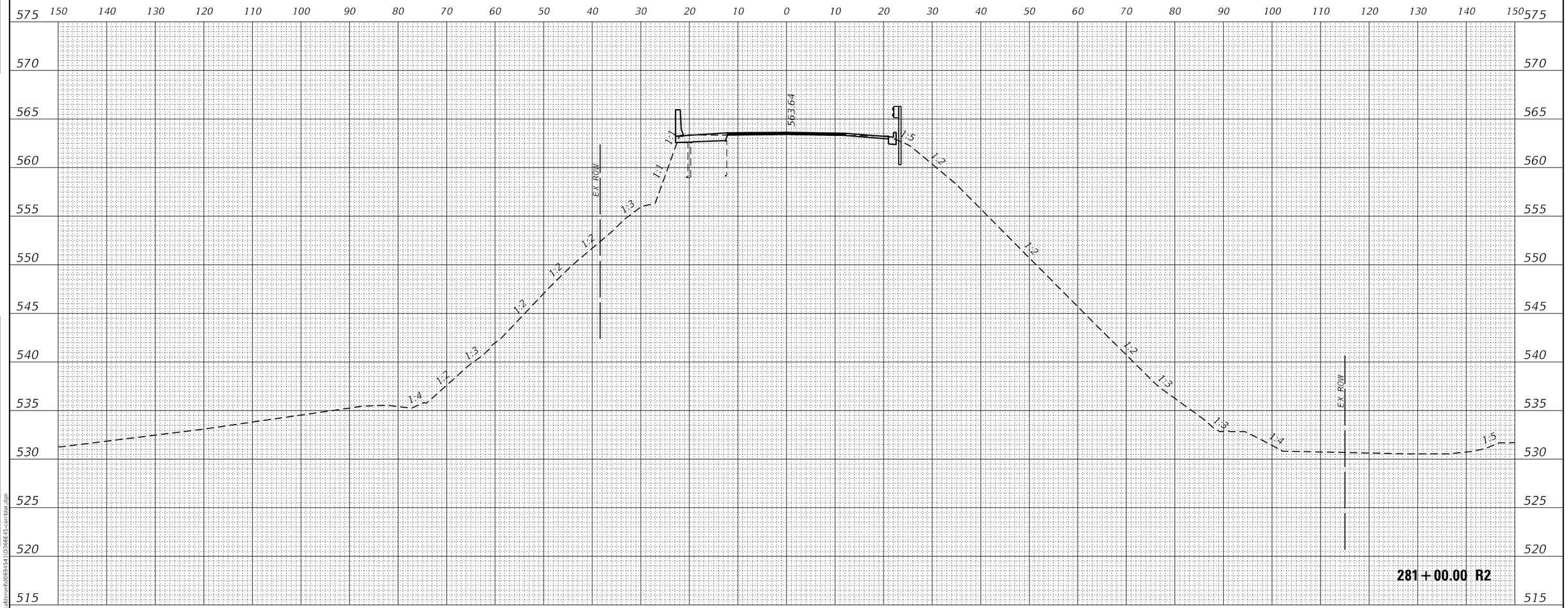
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	75
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	
NOTE BOOK	
NO.	

	DATE	BY
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	
NOTE BOOK	
NO.	

	DATE	BY
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		



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USER NAME = calderonl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 6 CROSS SECTIONS	
	DRAWN -	REVISED -			
PLOT SCALE = 20.0009 ' / in.	CHECKED -	REVISED -			
PLOT DATE = 8/19/2020	DATE -	REVISED -		SCALE:	SHEET OF SHEETS STA. 281+00.00 R2 TO STA. 281+00.00 R2

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	76
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	
NOTE BOOK	
NO.	

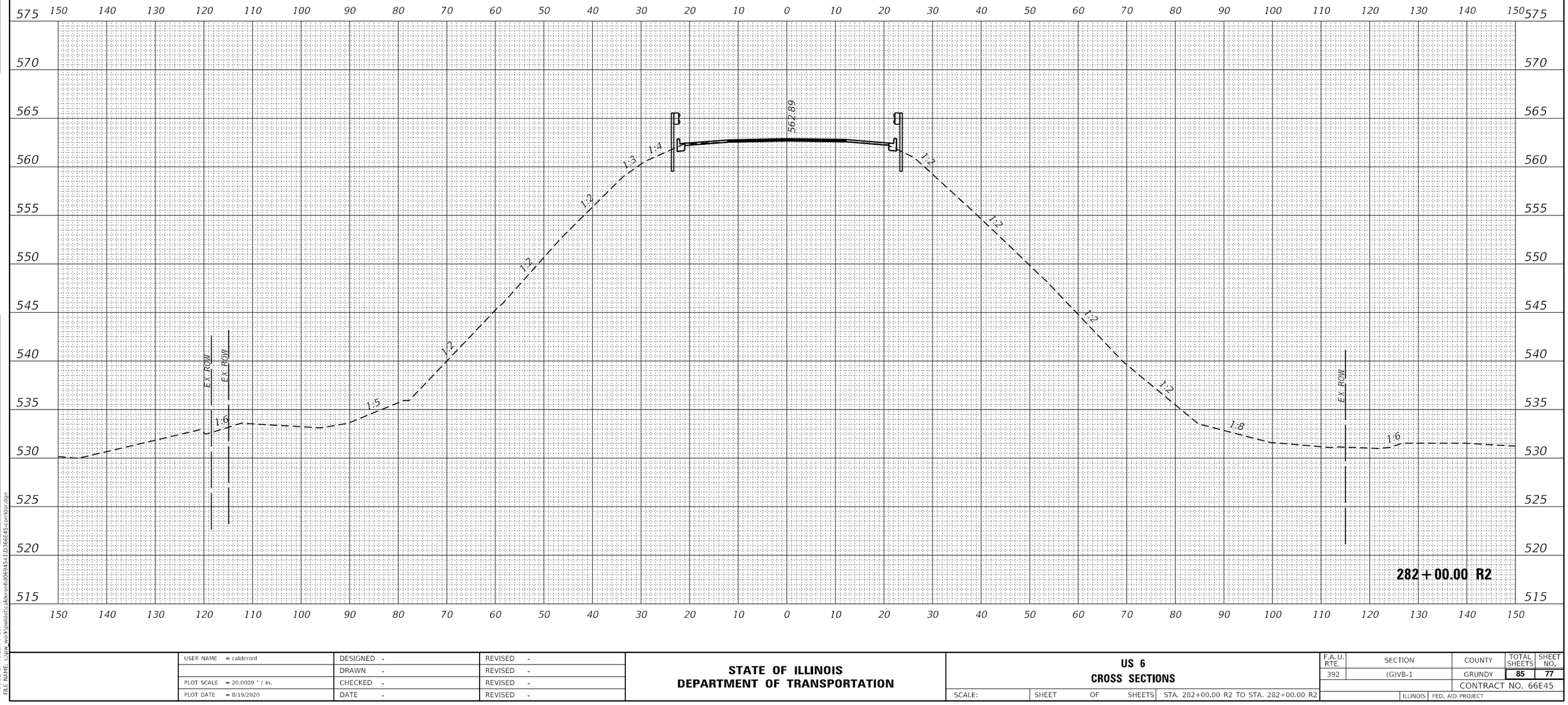
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	

BY	DATE

ORIGINAL SURVEY	
NOTE BOOK	
NO.	

SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	

BY	DATE



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USER NAME = calderonl	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0009 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/19/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

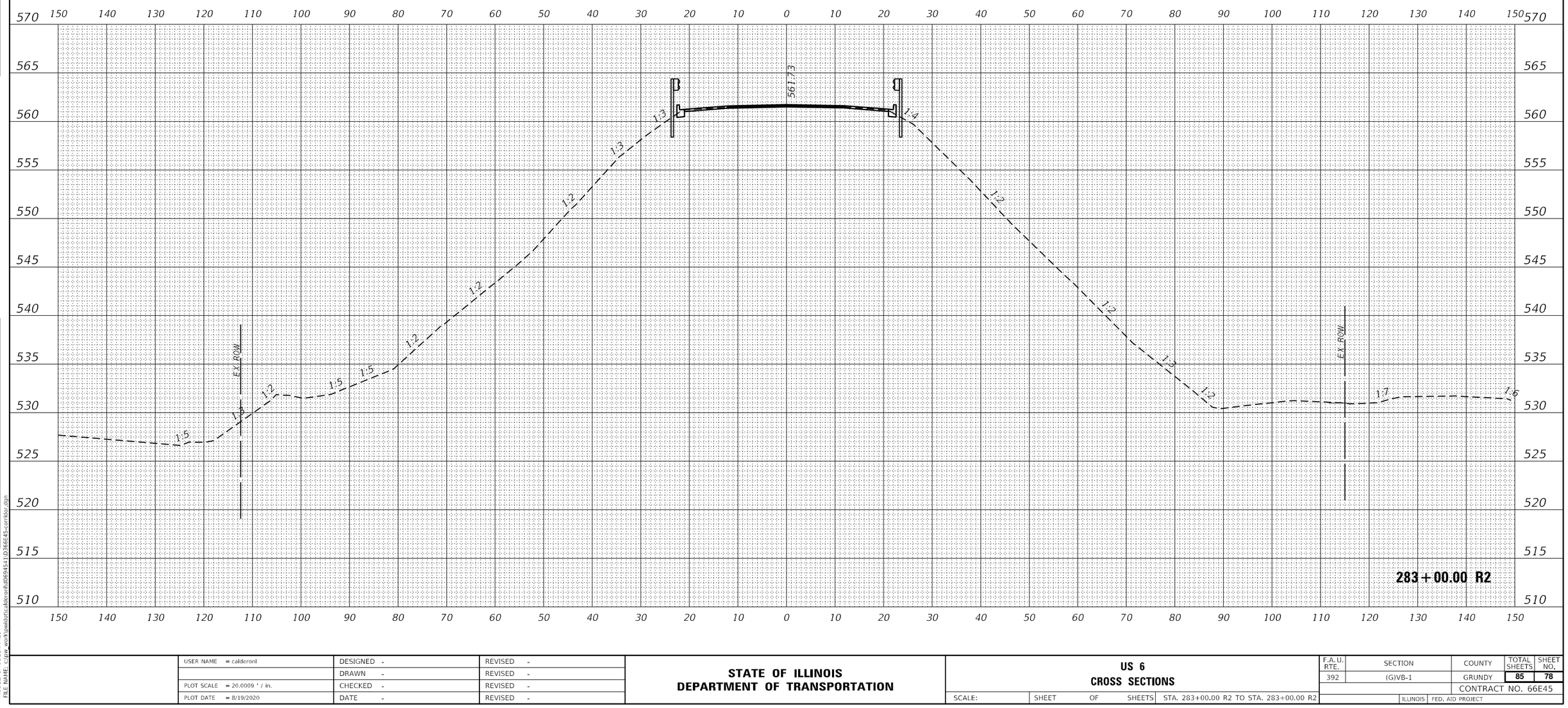
US 6
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 282+00.00 R2 TO STA. 282+00.00 R2

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	77
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
NO.		



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	DRAWN -	REVISED -	
PLOT SCALE = 20.0009 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/19/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 283+00.00 R2 TO STA. 283+00.00 R2

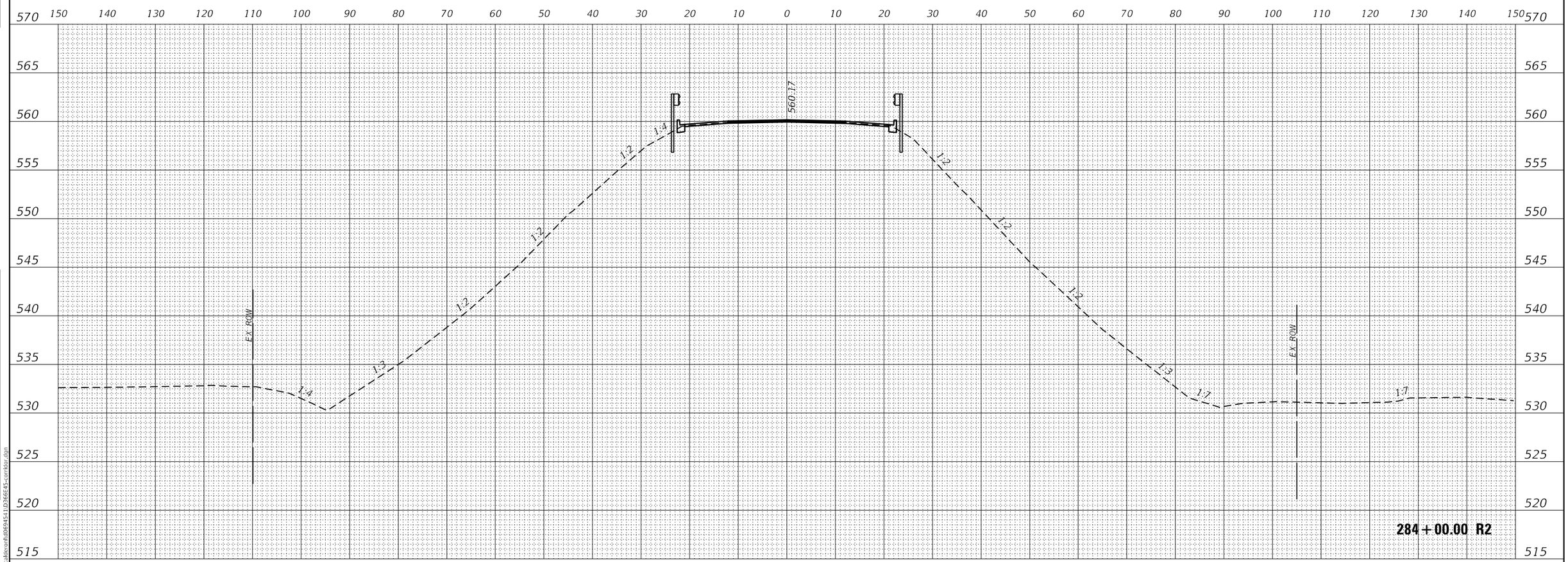
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	78
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	
NOTE BOOK	
NO.	

		DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	
NOTE BOOK	
NO.	

		DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		



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	DRAWN -	REVISED -	
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PLOT DATE = 8/19/2020	DATE -	REVISED -	

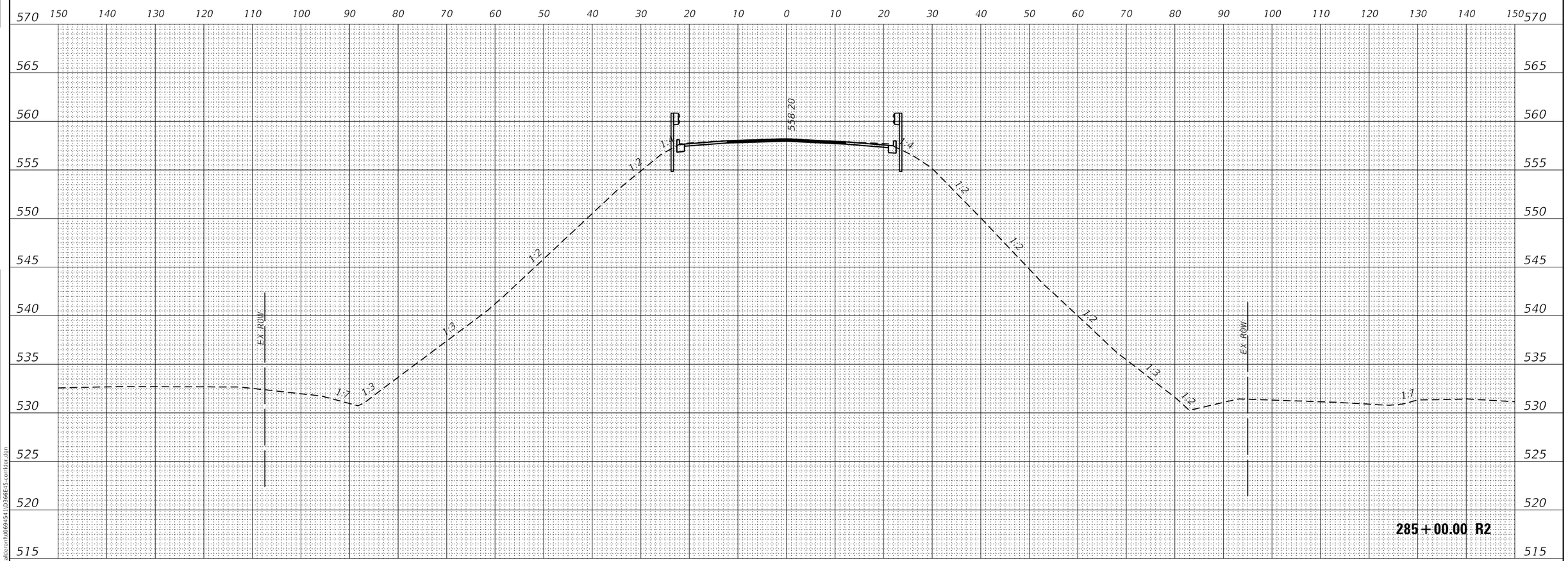
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 284+00.00 R2 TO STA. 284+00.00 R2

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	79
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

MODEL: $MODELNAME$
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	DRAWN -	REVISED -
PLOT SCALE = 20.0009 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/19/2020	DATE -	REVISED -

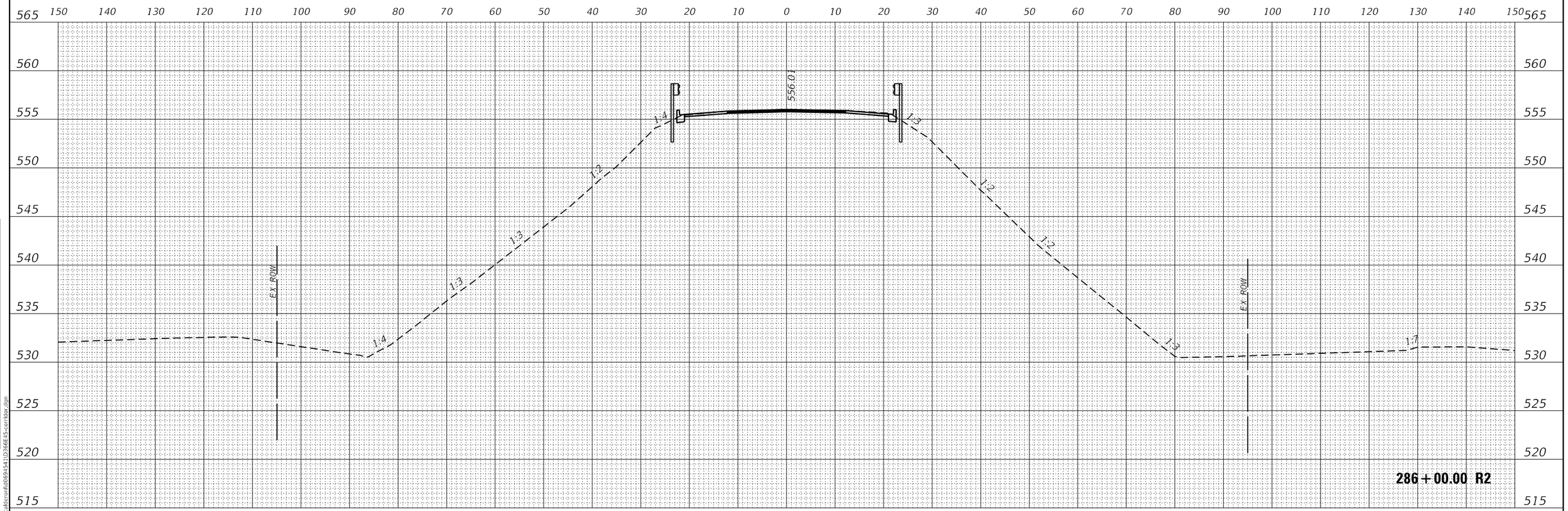
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 285+00.00 R2 TO STA. 285+00.00 R2

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	80
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		



ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

MODEL: $MODELNAME$
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USER NAME = calderonl	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0009 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/19/2020	DATE -	REVISED -	

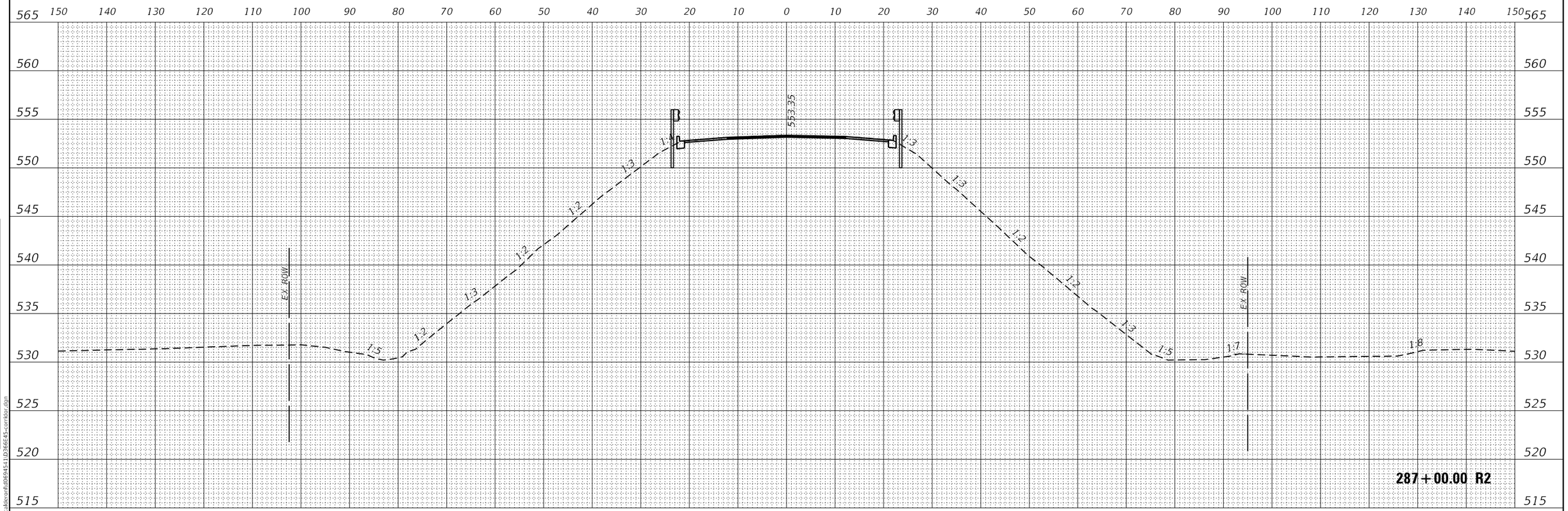
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 286+00.00 R2 TO STA. 286+00.00 R2

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	81
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

MODEL: $MODELNAME$
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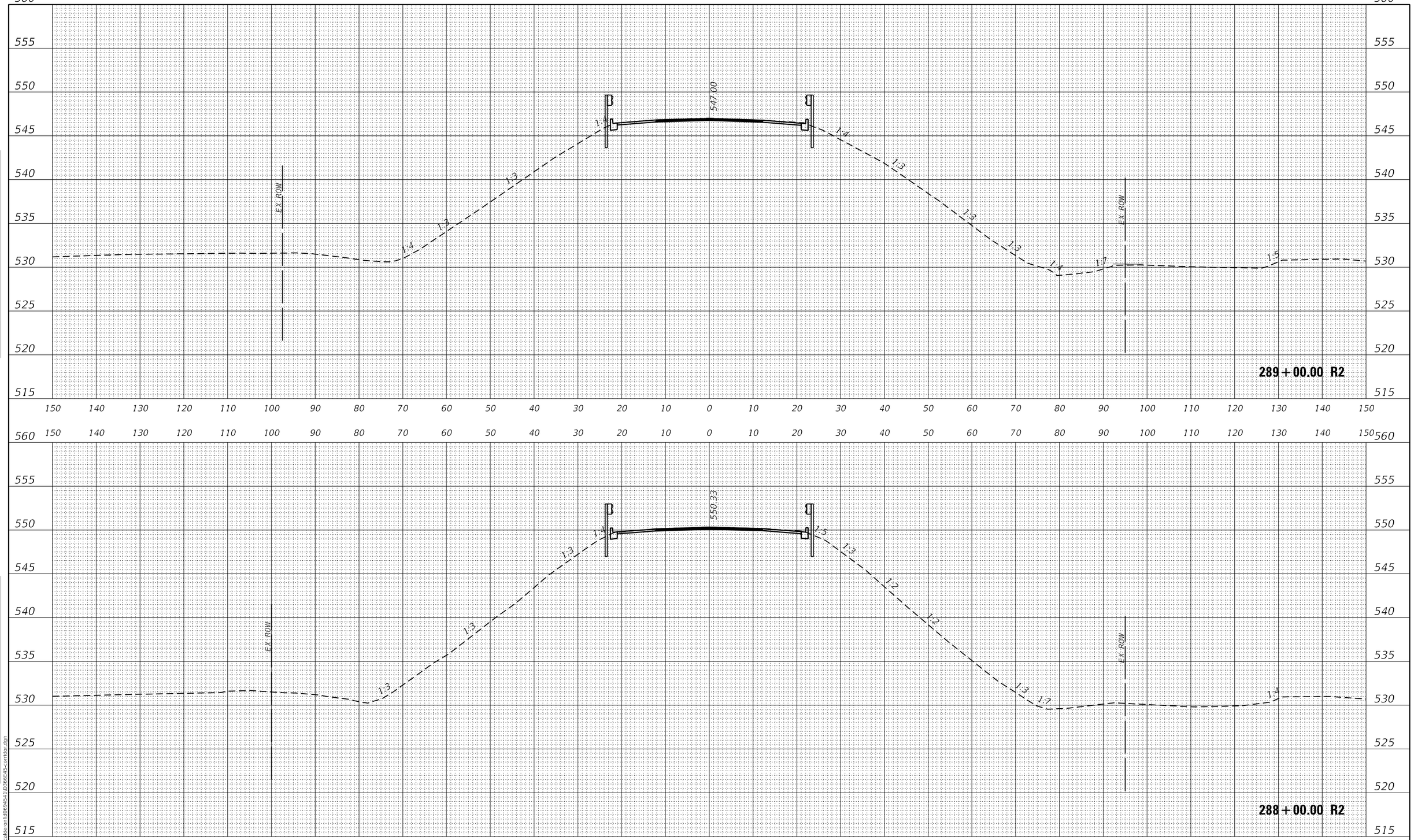
USER NAME = calderonf	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0009 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/19/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 287+00.00 R2 TO STA. 287+00.00 R2

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	82
		CONTRACT NO. 66E45		
		ILLINOIS	FED. AID PROJECT	



USER NAME = calderonl	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0009 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/19/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6
CROSS SECTIONS

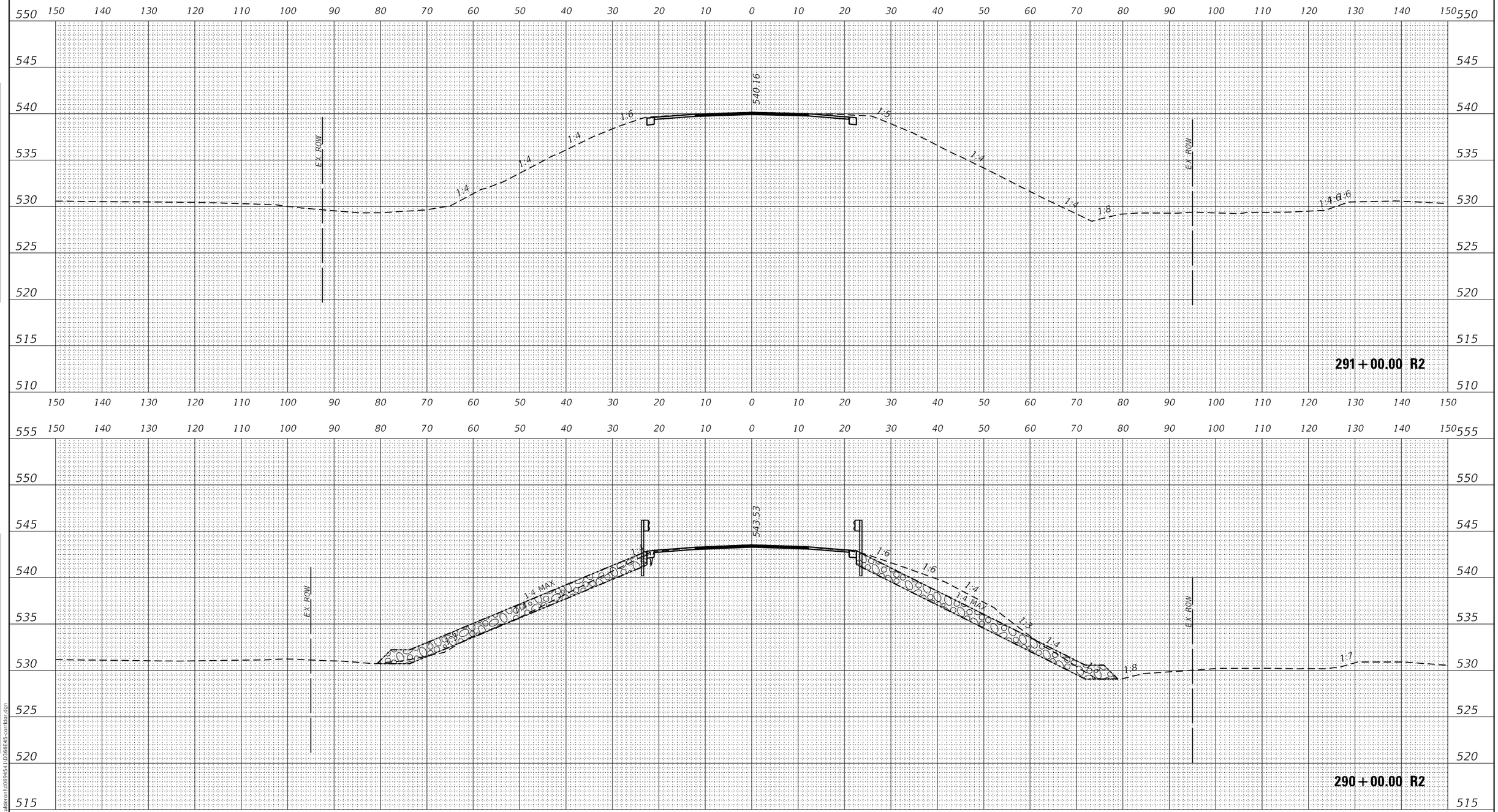
SCALE: | SHEET OF SHEETS | STA. 288+00.00 R2 TO STA. 289+00.00 R2

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	83
		CONTRACT NO. 66E45		
		ILLINOIS	FED. AID PROJECT	

ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

MODEL: $MODELNAME$
FILE NAME: c:\pw_work\kowlidot\calderonl\d0694541\D366E45-corridor.dgn



USER NAME = calderonl	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0009 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/19/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6
CROSS SECTIONS

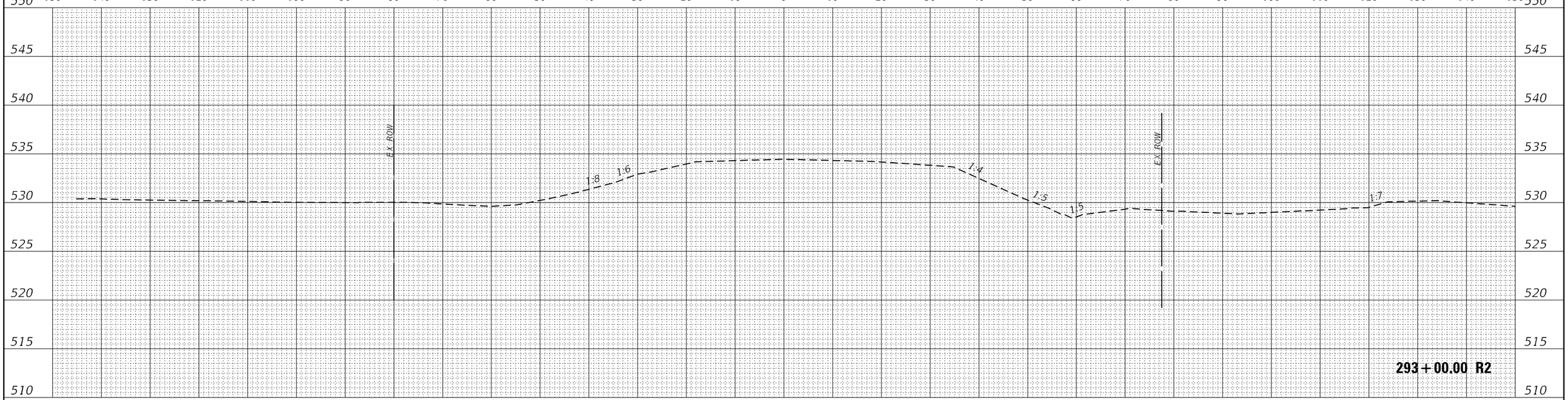
SCALE: | SHEET OF SHEETS | STA. 290+00.00 R2 TO STA. 291+00.00 R2

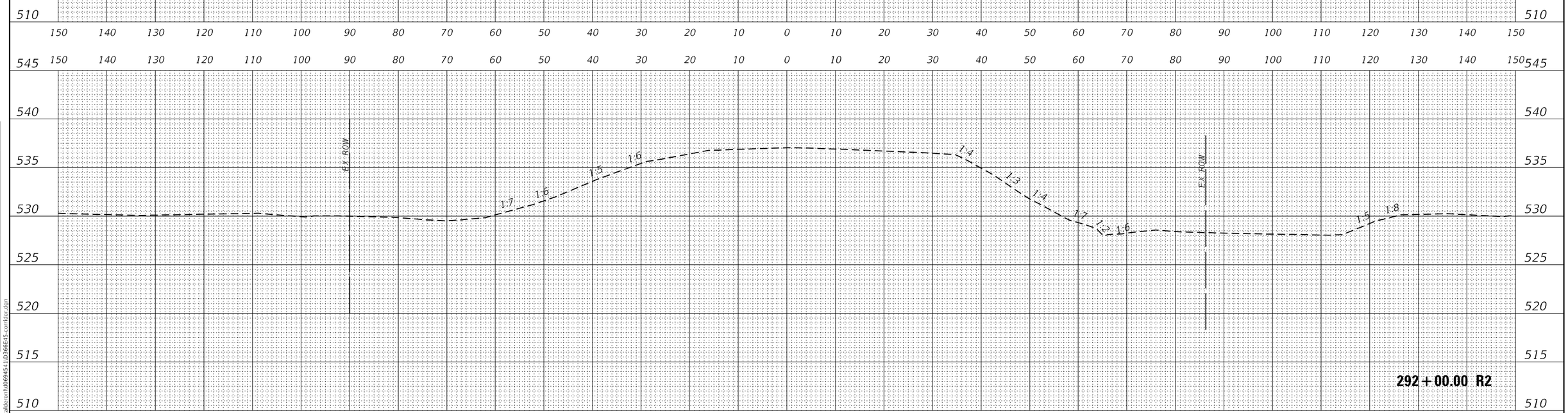
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	84
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

MODEL: $MODELNAME$
FILE NAME: c:\pw_work\dot\calderonl\d0694541\D366E45-corridor.dgn





USER NAME = calderonl	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0009 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/19/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 6
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 292+00.00 R2 TO STA. 293+00.00 R2

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(G)VB-1	GRUNDY	85	85
		CONTRACT NO. 66E45		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY — NOTE BOOK — NO. — BY — DATE — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED

ORIGINAL SURVEY — NOTE BOOK — NO. — BY — DATE — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED

MODEL: SMODELNAMES
FILE NAME: c:\pw_work\awildlot\calderonl\d06945411D366645-corridor.dgn