

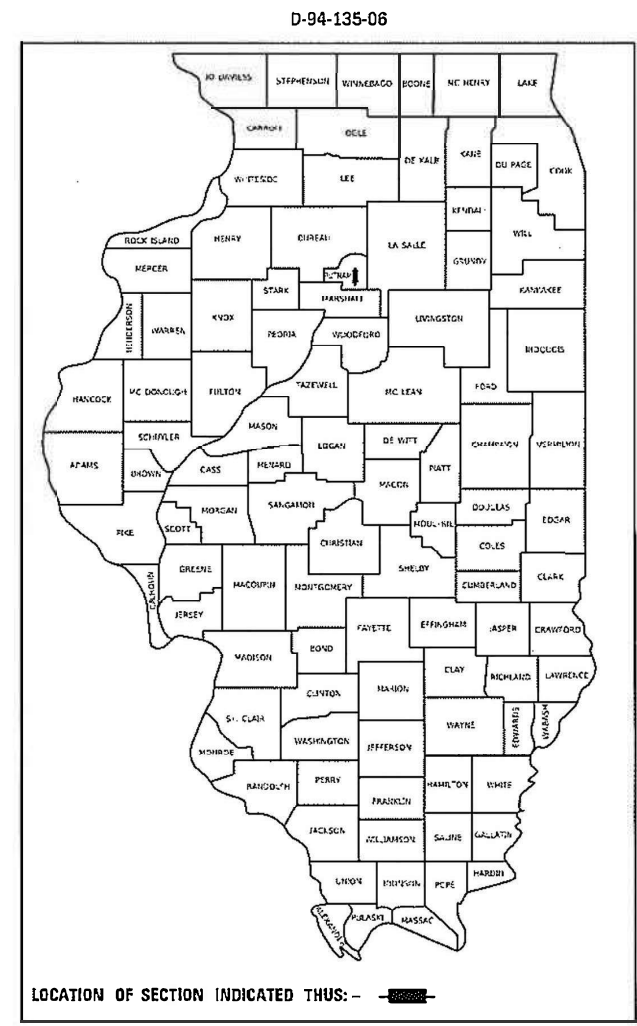
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	1
		ILLINOIS	CONTRACT NO. 68666	

SHEET NO. INDEX OF SHEETS 04-28-2023 LETTING ITEM 122

1	TITLE SHEET
2 - 3	GENERAL NOTES AND COMMITMENTS
4 - 9	SUMMARY OF QUANTITIES
	<u>IL 89 OVER CLEAR CREEK TRIBUTARY</u>
10 - 11	TYPICAL SECTIONS
12 - 14	SCHEDULE OF QUANTITIES
15	ALIGNMENT, TIES, AND BENCHMARK
16 - 17	REMOVAL PLAN & PROFILE
18 - 19	PLAN & PROFILE
20 - 26	TRAFFIC CONTROL PLANS
27	EROSION CONTROL PLAN
28 - 29	RIGHT OF WAY PLANS
30 - 43	STRUCTURE PLANS
44 - 49	DISTRICT STANDARDS
50 - 65	CROSS SECTIONS
	<u>IL 89 OVER CLEAR CREEK</u>
66 - 67	TYPICAL SECTIONS
68 - 71	SCHEDULE OF QUANTITIES
72	ALIGNMENT, TIES, AND BENCHMARK
73 - 74	REMOVAL PLAN & PROFILE
75 - 76	PLAN & PROFILE
77 - 83	TRAFFIC CONTROL PLANS
84	EROSION CONTROL PLAN
85 - 86	RIGHT OF WAY PLANS
87 - 100	STRUCTURE PLANS
101 - 108	DISTRICT STANDARDS
109 - 124	CROSS SECTIONS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS
FAP 698 (IL 89)
SECTION (122)BR, BR-1
PROJECT HBF2-DHF2(477)
PUTNAM COUNTY**

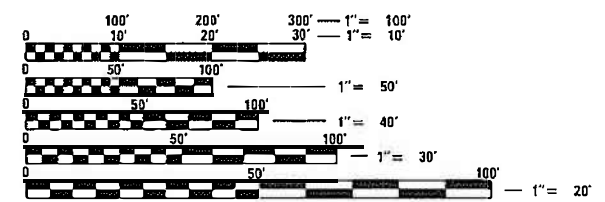
C-94-103-20



LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001-08	701001-02	701326-04
001001-02	701006-05	701901-08
001006	701011-04	704001-08
280001-07	701201-05	780001-05
482011-03	701301-04	781001-04
515001-04	701311-03	886001-01
631032-10	701321-18	886006-01
666001-01		

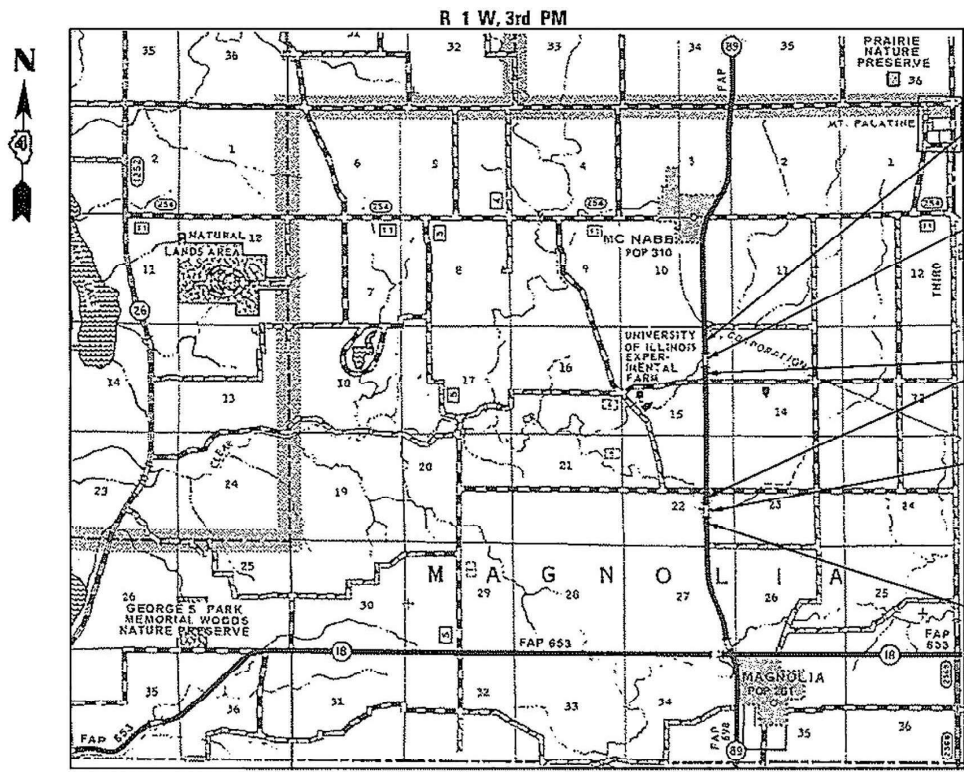
ADT = 2300 (2009); 2500 (2022)
 %SU = 6 (2009)
 %MU = 3 (2009)
 TOWNSHIP : MAGNOLIA
 FUNCTIONAL CLASS : MINOR ARTERIAL
 (NON URBAN)



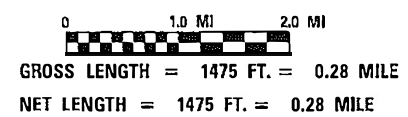
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

**PROJECT ENGINEER NICOLE FAYANT (309) 671-3454
 PROJECT MANAGER RON NOLTE (309) 671-3470
 CATALOG NO. 033410-00D
 CONTRACT NO. 68666**



- PROPOSED PROJECT BEGINS STA 417+00
- PROPOSED DOUBLE 12'X10' (WXH) BARREL CAST IN PLACE CONCRETE BOX CULVERT 0° SKEW SN 078-2012 @ STA 420+57 (REPLACES SN 078-0024)
- OMIT STA 424+25 TO STA 491+00
- PROPOSED TRIPLE 12'X8' (WXH) BARREL CAST IN PLACE CONCRETE BOX CULVERT 0° SKEW SN 078-2011 @ STA 494+52 (REPLACES SN 078-0025)
- PROPOSED PROJECT ENDS 498+50



Stanley J. Fearday
 STANLEY J. FEARDAY, P.E. DATE: 2-24-23
 LICENSE EXP. DATE 11-30-2023

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED February 2, 2023

Kenneth S. Darnell
 REGION 3 ENGINEER

March 24, 2023

Stanley J. Fearday
 ENGINEER OF DESIGN AND ENVIRONMENT

March 24, 2023

Stephen M. Smith
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

AVAILABILITY OF ELECTRONIC FILES

MicroStation and GEOPAK files of this project will be made available to the Contractor. If there is a conflict between the electronic files and the printed contract plans and documents, the printed contract plans and documents shall take precedence over the electronic files. The Contractor shall accept all risk associated with using the electronic files and shall hold the Department harmless for any errors or omissions in the electronic files and the data contained therein. Errors or delays resulting from the use of the electronic files by the Contractor shall not result in an extension of time for any interim or final completion date or shall not be considered cause for additional compensation. The Contractor shall not use, share, or distribute these electronic files except for the purpose of constructing this contract. Any claims by third parties due to use or errors shall be the responsibility of the Contractor. The Contractor shall include this disclaimer with the transfer of these electronic files to any other parties and shall include appropriate language binding them to similar responsibilities.

UTILITIES - LOCATIONS / INFORMATION ON PLANS

The locations of existing water mains, gas mains, sewers, electric power lines, telephone lines and other utilities as shown on the plans are based on careful field investigation and the best information available, but they are not guaranteed. Unless elevations are shown all utility locations shown on the cross sections are based on the approximate depth supplied by the utility company. It shall be the Contractor's responsibility to ascertain their exact location from the utility companies and by field inspection.

TREE REMOVAL-UTILITY RELOCATION

Tree removal may be necessary prior to utility companies being able to relocate their facilities outside the construction limits. The Contractor should coordinate any contract tree removal activities with the utility companies to eliminate conflicts and potential delays caused by utility tree removal activities or incomplete utility relocation.

PLAN ELEVATIONS - U. S. G. S. MEAN SEA LEVEL DATUM

All elevations shown on the plans are established from U. S. G. S. mean sea level datum.

PROPERTY OWNER ACCESS REQUIREMENTS

Access must be maintained to all existing properties during construction per Article 107.09 unless arrangements are made in writing by the Contractor with the property owners with a copy to the Engineer for short-term closures.

TREE REMOVAL RESTRICTIONS

Due to the potential presence of endangered bats, no tree removal will be allowed on this project between April 1st and September 30th.

TRANSITION PAYMENT METHOD - NEW/OLD CONSTRUCTION

Three meter (10 ft.)(3m) transitions shall be used to match proposed items of work to existing items in the field unless otherwise shown. The transition shall be paid for at the contract unit price for the proposed item of work specified.

ENGINEERS FIELD OFFICE

Add the following sentence to the end of paragraph 670.02 (i) and 670.04 (e):
All of the telephone lines provided shall have unpublished numbers.

BUTT JOINT CUTTING TIME RESTRICTION

Butt joints shall not be milled more than three (3) days prior to placement of the HMA surface course.

POLYMERIZED BITUMINOUS MATERIAL (TACK COAT) RATES

Surface Type	Residual Rate
Milled (HMA or PCC)	0.08 lb / sq ft
Existing Pavement	0.08 lb / sq ft
Fog Coat (between lifts)	0.08 lb / sq ft

ENVIRONMENTAL REVIEWS

Prior to the use of any proposed borrow areas, use areas (temporary access roads, detours, run-arounds, etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the department to conduct cultural and biological resource surveys for the proposed site.

The required environmental resource documentation shall include the following:

- BDE form 2289 (cultural and natural resources review of borrow areas)
- BDE form 2290 (waste/use area review)
- a location map showing the size limits and location of the use area
- color photographs depicting the use area
- borrow area entry agreement form - D4 PI0101

Prior to any waste materials being removed from the construction site the required environmental resource surveys shall be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 202.03 of the Standard Specifications.

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

Please note that a minimum of four weeks shall be allowed for the district to obtain the required waste site environmental clearances and six weeks for the required borrow site environmental clearances.

AGGREGATE SHOULDERS, TYPE B

Aggregate Shoulders, Type B shall be required for all granular construction of side roads, entrances and mail box turnouts, whether or not portions of the surfaces thus constructed are to be covered with bituminous surface, except where noted differently on the plans.

RIGHT-OF-WAY MARKERS

When installing right-of-way makers, care shall be taken to not disturb any existing property/right-of-way pins. If a property/right-of-way pin is found at the location of a proposed right-of-way marker, the marker shall be placed one (1) foot in front of the pin.

MODEL: D:\p1\h...
 FILE NAME: P:\C\w\DOT_DIST\PTB 194-035 var PH LH 3120032\WO 9 Combine Ckr Creek and CC Trib 3120032-09\CAD_Sheets\168666-sh-general_notes.dgn
 PLOT DATE = 1/12/2023

The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 License No. 194-003401
 123 North 15th Street
 Madison, IL 61738
 Phone: 217.235.3177
 Email: upchurchgroup@upchurchgroup.com

USER NAME = Sta37	DESIGNED - MJS	REVISED -
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - MJS	REVISED -
PLOT DATE = 1/12/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES AND COMMITMENTS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	2
CONTRACT NO. 68666				
		ILLINOIS	FED. AID PROJECT	

ORDERING LENGTH CONFIRMATION - DRAINAGE ITEMS

The Contractor shall consult with the Engineer in regard to the exact length of the box/pipe culverts, storm sewers, and/or pipe drains required prior to ordering these items.

SETTING OF SECTION CORNER MONUMENTATION

All section corner locations on this project shall be located and verified by a licensed Land Surveyor prior to any removal work being performed. The Land Surveyor shall locate the existing section corners through courthouse research, personal knowledge or through the assistance of local firms performing Land Surveying in the area. If the section corner does not exist through either its physical location or through ties in the field it shall not be reset, there shall be no calculating of section corners onto a project required.

Once the paving and striping operations have been performed the section corner shall be reset at the direction of a licensed Land Surveyor. If any dimensions have been changed it shall be the responsibility of the Surveyor to file a new monument record in the appropriate courthouse.

A copy of all drawings or monument records produced from this project shall be sent to the Chief of Surveys, Illinois Department of Transportation, Region Three/District Four, Peoria, Illinois.

The supplying, drilling, setting of disks, professional services, labor and any other additional work required to perform this work shall be paid for under pay item for Permanent Survey Markers, Type I.

Refer to District Four CADD Standard 667101 for details.

MIXTURE REQUIREMENTS

LOCATION AND MIXTURE USES(5):	MAINLINE		HMA BASE COURSE & WIDENING	SHOULDERS		INCIDENTAL SURFACE & TEMPORARY RAMP BUILDUP
	SURFACE, 1 1/2"	POLY BINDER, 1"		TOP LIFT, 2 1/2"	LOWER LIFT	
PG:	58-28	SBS or SBR 76-22	58-28	58-28	58-28	58-28
DESIGN AIR VOIDS	4.0 @ N50	4.0 @ N50	4.0 @ N50	4.0 @ N50	4.0 @ N50	4.0 @ N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 4.75	IL 19.0	IL 9.5	IL 19.0	IL 9.5
FRICTION AGGREGATE	D	N/A	N/A	C	N/A	C
20 YEAR ESAL	0.47	0.47	N/A	N/A	N/A	N/A
MIX UNIT WEIGHT	112 LBS/SY/IN	112 LBS/SY/IN	112 LBS/SY/IN	112 LBS/SY/IN	112 LBS/SY/IN	112 LBS/SY/IN
QUALITY MANAGEMENT PROGRAM TO BE USED	QC/QA	QC/QA	QC/QA	QC/QA	QC/QA	QC/QA
SUBLOT TONNAGE	N/A	N/A	N/A	N/A	N/A	N/A
REQUIRE MTD	YES	YES	N/A	N/A	N/A	N/A

Note: Individual lift thicknesses of each mix type will be no less than 3 times nominal maximum aggregate size and no more than 6 times nominal maximum aggregate size.

PAVING SURFACE COURSE

Continuous paving operations on the main roadway shall be maintained at all times during the construction of the hot-mix asphalt surface. No interruptions for side roads, entrances, turn lanes, etc. will be allowed.

COMMITMENTS

Resident Engineer will contact Mr. William J. Riddell at (309) 238-4409 thirty (30) days prior to working on the newly purchased Right of Way.



Status of Utilities

Name of Utility Company	Route	FAP 698 (IL 89)
McNabb Telephone	Section	(122)BR, BR-1
	County	Putnam
	Contract No.	68666
	Catalog No.	033410-00D

Route	Offset	Location	Type of Utility	Type of Conflict	Disposition
IL 89 (Clear Creek Trib)	Lt 37'	423+00 to 424+00	Buried Telephone	Ditch grading	Caution
IL 89 (Clear Creek)	Lt 37'	491+00 to 494+32 494+70 to 498+58	Buried Telephone		Facilities abandoned at this location
IL 89 (Clear Creek)		494+32 to 494+70	Conduit on Structure	Structure removal	Remove from structure



Status of Utilities

Name of Utility Company	Route	FAP 698 (IL 89)
Ameren Gas	Section	(122)BR, BR-1
	County	Putnam
	Contract No.	68666
	Catalog No.	033410-00D

Route	Offset	Location	Type of Utility	Type of Conflict	Disposition
IL 89 (Clear Creek)	Lt 48'	493+00 to 496+50	2" HP steel gas main	Ditch grading	Relocate

MODEL: D:\info\...
 FILE NAME: P:\CADD\DOT_DIST\PTB 194-035 var PH LH 3120032-09\CAD_Sheets\0468666-sh-general_notes.dgn
 PROJECT: DISTRICT FOUR
 PROJECT NO. 3120032-09
 SHEET NO. 124 OF 124
 DATE: 10/4/2022

The Upchurch Group
 architects engineers surveyors
 123 North 15th Street
 Moline, IL 61918
 Phone: 317.235.3177
 License No. 154-003401
 Email: upchurchgroup@upchurchgroup.com

USER NAME = Sta42	DESIGNED - MJS	REVISED -
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MJS	REVISED -
PLOT DATE = 10/4/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES AND COMMITMENTS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	3
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED / 20% STATE SN 078-0025 (OLD)	80% FED / 20% STATE SN 078-0024 (OLD)
				SN 078-2011 (NEW)	SN 078-2012 (NEW)
				0010 RURAL	0010 RURAL
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL 9.5, MIX "D", N50	TON	383	195	188
44000100	PAVEMENT REMOVAL	SQ YD	260	128	132
44004250	PAVED SHOULDER REMOVAL	SQ YD	537	255	282
48101200	AGGREGATE SHOULDERS, TYPE B	TON	707	349	358
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	115	115	0
48203100	HOT-MIX ASPHALT SHOULDERS	TON	139	62	77
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	2	1	1
50105220	PIPE CULVERT REMOVAL	FOOT	54	54	0
50200100	STRUCTURE EXCAVATION	CU YD	1,526	843	683
* 50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	343	236	107
50400205	PRECAST PRESTRESSED CONCRETE DECK BEAMS (11" DEPTH)	SQ FT	832	416	416
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	124,120	68,750	55,370
50800515	BAR SPLICERS	EACH	322	188	134
51500100	NAME PLATES	EACH	2	1	1

* DENOTES SPECIALTY ITEM

MODEL: D:\p\h\l...
 FILE NAME: P:\C\U\I\DDOT_DIST\PTB 194-035 var PH I-I 3120032-09\CAD_Sheets\1468666-sh-500.dgn
 PROJECT: I-194-035 var PH I-I 3120032-09 Combine Clear Creek and CC Trib 3120032-09\CAD_Sheets\1468666-sh-500.dgn

The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 123 North 15th Street
 Mankato, IL 61438
 Phone: 217.235.3177
 License No. 154-003401
 Email: upchurchgroup@upchurchgroup.com

USER NAME = Sta42	DESIGNED - MJS	REVISED -
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - MJS	REVISED -
PLOT DATE = 1/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	6
CONTRACT NO. 68666			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED / 20% STATE SN 078-0025 (OLD)	80% FED / 20% STATE SN 078-0024 (OLD)
				SN 078-2011 (NEW)	SN 078-2012 (NEW)
				0010 RURAL	0010 RURAL
52200010	TEMPORARY SHEET PILING	SQ FT	687	0	687
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	371	371	0
54003000	CONCRETE BOX CULVERTS	CU YD	641	342	299
54260515	SLOPED METAL END SECTION, STANDARD 542411, 15", 1:6	EACH	4	4	0
542D0220	PIPE CULVERTS, CLASS D, TYPE 1, 15"	FOOT	98	98	0
63200310	GUARDRAIL REMOVAL	FOOT	1,691	808	883
63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	500	250	250
63301215	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE B	FOOT	100	50	50
63301990	REMOVE AND REERECT TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	4	2	2
* 66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	23	9	14
* 66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	2	1	1
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	10	5	5
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2	1	1

* DENOTES SPECIALTY ITEM

MODEL: D:\p\h\11 3120032\100 9 Combine Ckr CAD_Sheets\1168666-sh-500.dgn
 FILE NAME: P:\C\11\DOT_DIST\PTB 194-035 var PH 11 3120032\100 9 Combine Ckr CAD_Sheets\1168666-sh-500.dgn

The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 123 North 15th Street
 Madison, IL 61738
 Phone: 217.235.3177
 License No. 154-003401
 Email: upchurchgroup@upchurchgroup.com

USER NAME = Sta42	DESIGNED - MJS	REVISED -
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - MJS	REVISED -
PLOT DATE = 1/24/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	7
CONTRACT NO. 68666			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED / 20% STATE SN 078-0025 (OLD)	80% FED / 20% STATE SN 078-0024 (OLD)
				SN 078-2011 (NEW)	SN 078-2012 (NEW)
				0010 RURAL	0010 RURAL
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.5	0.5
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	0.5	0.5
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5	2.5	2.5
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	1	1
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	795	372	423
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	14	14
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	4,113	2,305	1808
70300150	SHORT-TERM PAVEMENT MARKING REMOVAL	SQ FT	3,618	1,842	1776
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	5,535	2,647	2888
70307210	TEMPORARY PAVEMENT MARKING - LINE 24" - TYPE IV TAPE	FOOT	50	26	24
70400100	TEMPORARY CONCRETE BARRIER	FOOT	750	375	375
70400125	PINNING CONCRETE BARRIER	EACH	72	36	36
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,200	600	600
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	4	2	2

* DENOTES SPECIALTY ITEM

MODEL: D:\p1\h1\...
 FILE NAME: P:\C\U\I\...
 MODIFIED: 1/24/2023 10:03:55 AM
 PLOT DATE: 1/24/2023

The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 123 North 15th Street
 Madison, IL 61738
 Phone: 217.235.3177
 License No. 154-003401
 email: upchurchgroup@upchurchgroup.com

USER NAME = Sta42	DESIGNED - MJS	REVISED -
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - MJS	REVISED -
PLOT DATE = 1/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	8
CONTRACT NO. 68666			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED / 20% STATE SN 078-0025 (OLD)	80% FED / 20% STATE SN 078-0024 (OLD)
				SN 078-2011 (NEW)	SN 078-2012 (NEW)
				0010 RURAL	0010 RURAL
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	8	4	4
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	1,163	805	358
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	2,950	1,500	1450
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	20	10	10
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	20	10	10
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURE	SQ YD	703	410	293
X1800010	FURNISHING TREES	L SUM	1	0.5	0.5
* X2300017	STEEL RAILING, TYPE SM (SPECIAL)	FOOT	54	27	27
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	712	356	356
Z0004560	BRIDGE WEARING SURFACE REMOVAL	SQ YD	100	50	50
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.5	0.5
Z0034105	MATERIAL TRANSFER DEVICE	TON	615	313	302
* Z0054400	ROCK FILL	CU YD	343	236	107
Z0062458	TEMPORARY PAVEMENT (VARIABLE DEPTH)	TON	137	68	69

* DENOTES SPECIALTY ITEM

MODEL: D:\p\h\11 3120032\100 9 Combine C\ar Creek and CC Trib 3120032-09\CAD_Sheets\1468666-sh-500.dgn
 FILE NAME: P:\C\11\DOT_DIST\PTB 194-035 var PH L1 3120032-09\CAD_Sheets\1468666-sh-500.dgn

The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 123 North 15th Street
 Madison, IL 61738
 Phone: 217.235.3177
 License No. 154-003401
 Email: upchurchgroup@upchurchgroup.com

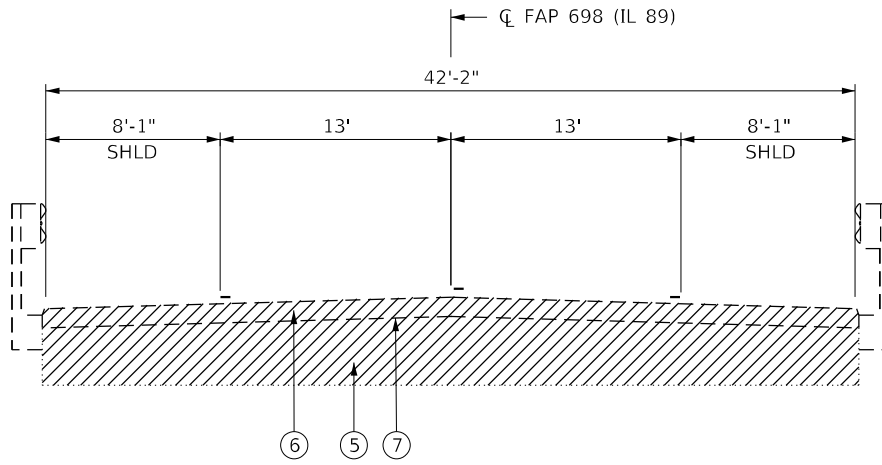
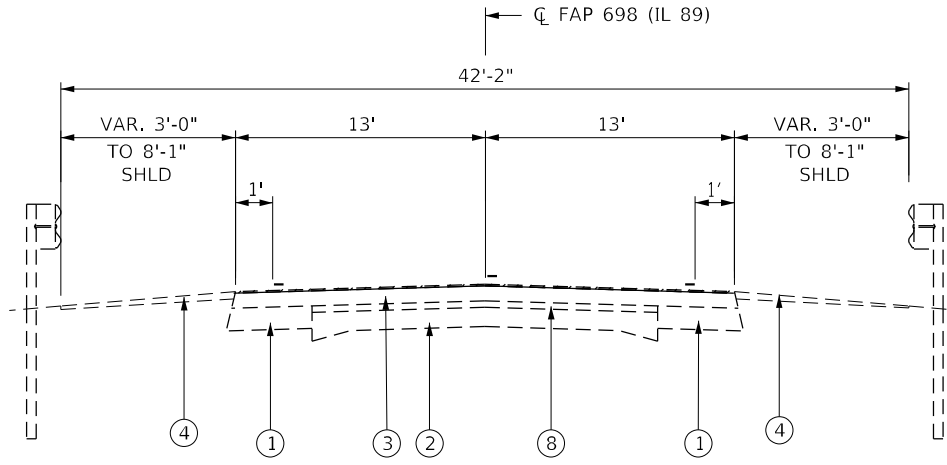
USER NAME = Sta42	DESIGNED - MJS	REVISED -
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - MJS	REVISED -
PLOT DATE = 1/24/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	9
CONTRACT NO. 68666			ILLINOIS FED. AID PROJECT	



- LEGEND**
- ① HMA WIDENING, 7"
 - ② 9"-6"-9" PVMT
 - ③ HMA OVERLAY, ± 4 1/8"
 - ④ AGG SHLDR
 - ⑤ CONC DECK, 1'-6" MAX
 - ⑥ HMA WEARING SURF, ± 5 1/2"
 - ⑦ WATERPROOFING MEMBRANE SYSTEM
 - ⑧ HMA OVERLAY, 2"



MODEL Path: H:\1220032\W0 9 Combine Clear Creek and CC Trib 3120032-09\CAD_Sheets\168666\rib-sh-typsec1.dgn
 FILE NAME: P:\C:\p\1220032\W0 9 Combine Clear Creek and CC Trib 3120032-09\CAD_Sheets\168666\rib-sh-typsec1.dgn

The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 123 North 15th Street
 Madison, IL 61738
 Phone: 217.253.5177
 License No. 184903401
 e-mail: upchurchgroup@upchurchgroup.com

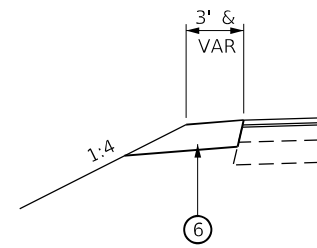
USER NAME = Station 44	DESIGNED - MJS	REVISED -
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISED -
PLOT SCALE = 10,0000 * / in.	CHECKED - MJS	REVISED -
PLOT DATE = 5/9/2022	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

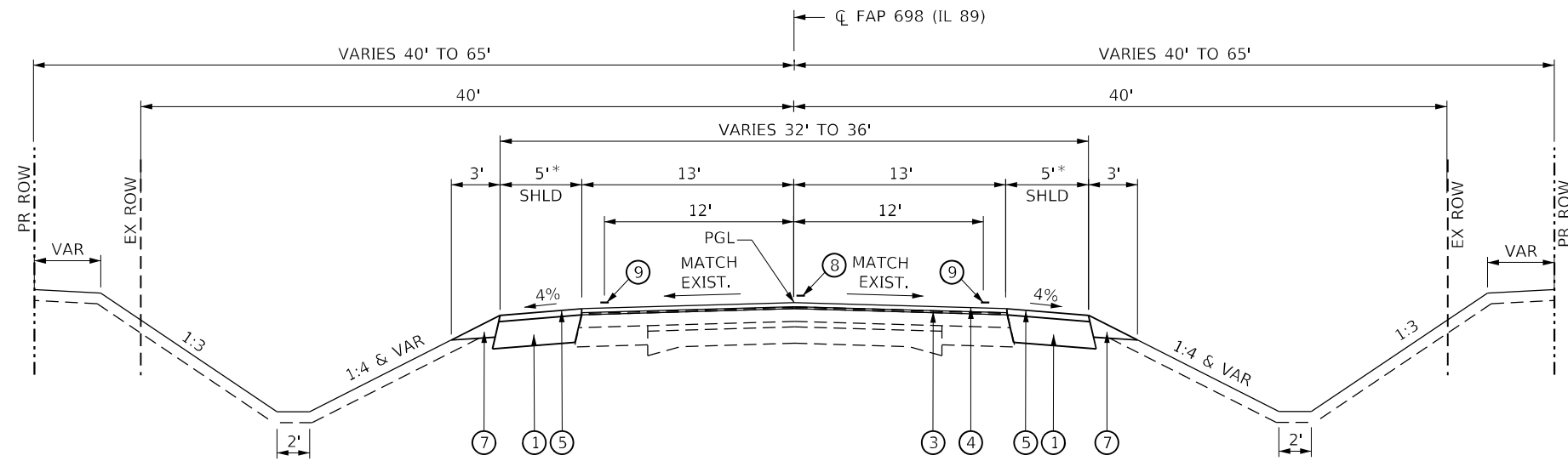
**TYPICAL SECTIONS
 ILLINOIS ROUTE 89 OVER CLEAR CREEK TRIBUTARY**

SCALE: SHEET OF SHEETS STA. TO STA.

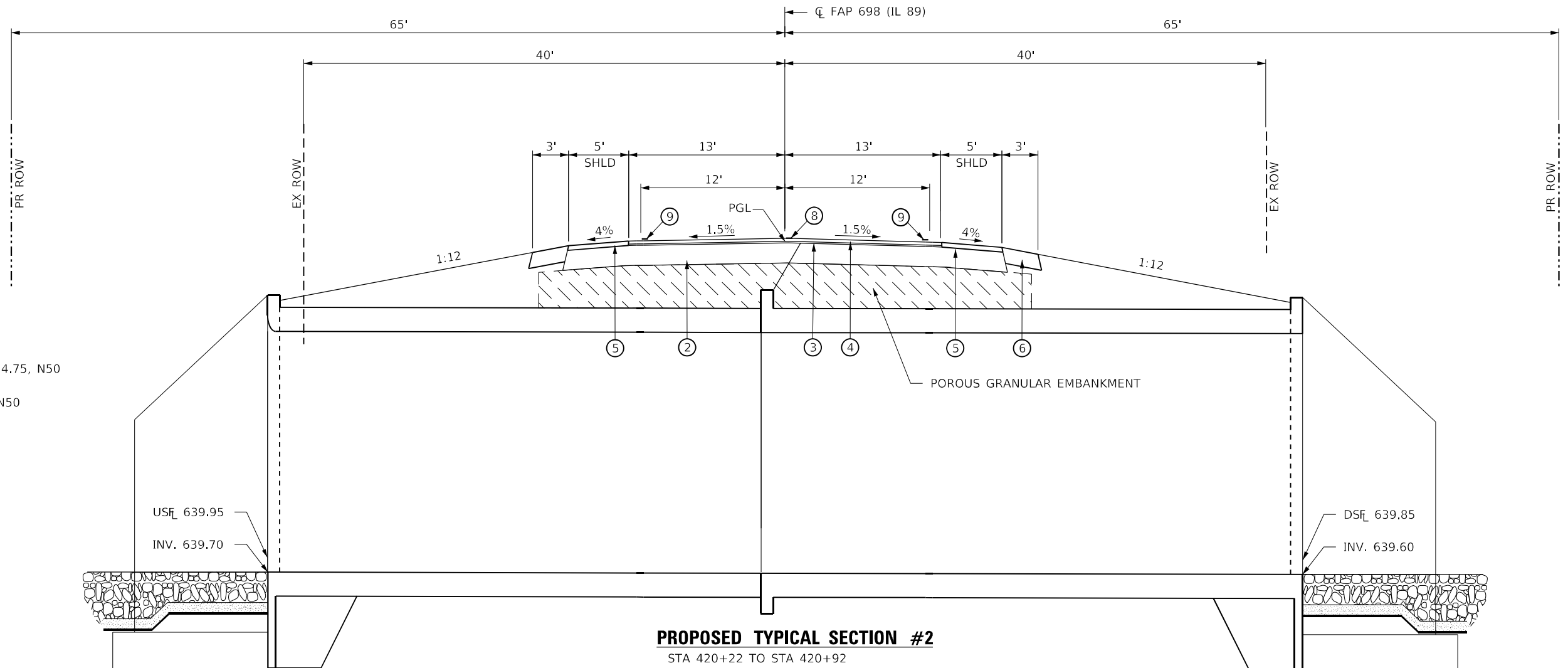
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	10
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				



*** PROPOSED SHOULDER DETAIL**
 STA 417+00 TO STA 418+50
 STA 422+60 TO STA 424+25



PROPOSED TYPICAL SECTION #1
 STA 417+00 TO STA 420+22
 STA 420+92 TO STA 424+25



PROPOSED TYPICAL SECTION #2
 STA 420+22 TO STA 420+92

LEGEND

- ① HMA BASE CSE WIDENING, 10"
- ② HMA BASE CSE, 10"
- ③ 1" POLYMERIZED HMA BINDER CSE, IL 4.75, N50
- ④ 1 1/2" HMA SURF CSE, IL 9.5, MIX D, N50
- ⑤ 2 1/2" HMA SHLDR
- ⑥ 8" AGG SHLDR, TY B
- ⑦ 8" AGG SHOULDER, TYPE B, (WEDGE)
- ⑧ PVMT MARKING LINE, 4"
- ⑨ PVMT MARKING LINE, 6"

US_L 639.95
 INV. 639.70

DS_L 639.85
 INV. 639.60

MODEL: D:\p4\11\11\DOT_DIST\UTTB_194-035_war_PN_HH_3120032\WO_9_Combine_Clear_Creek_and_CC_Trib_3120032-09\CAD_Sheets\1468666\rib-shd-ty-sec2.dwg
 FILE NAME: P:\C\upch\DOT_DIST\UTTB_194-035_war_PN_HH_3120032\WO_9_Combine_Clear_Creek_and_CC_Trib_3120032-09\CAD_Sheets\1468666\rib-shd-ty-sec2.dwg

The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 123 North 15th Street
 Maitland, IL 61138
 Phone: 217.255.5177
 License No. 154-003401
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Sta37
 TUG PROJECT NO. 3120032-09
 PLOT SCALE = 10,0000 * / in.
 PLOT DATE = 1/12/2023

DESIGNED - MJS
 DRAWN - SAE
 CHECKED - MJS
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
 ILLINOIS ROUTE 89 OVER CLEAR CREEK TRIBUTARY**

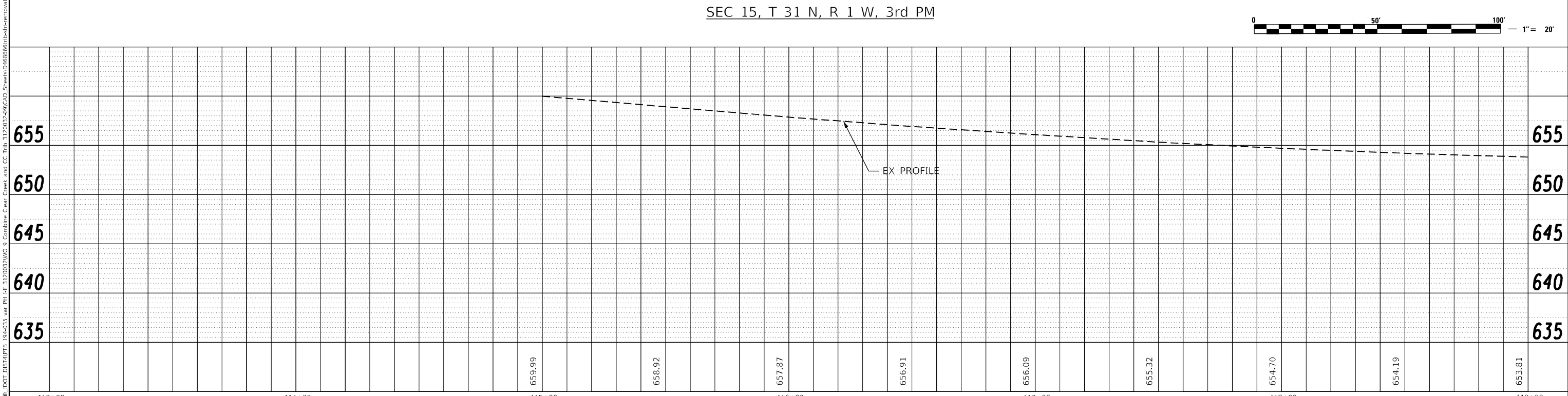
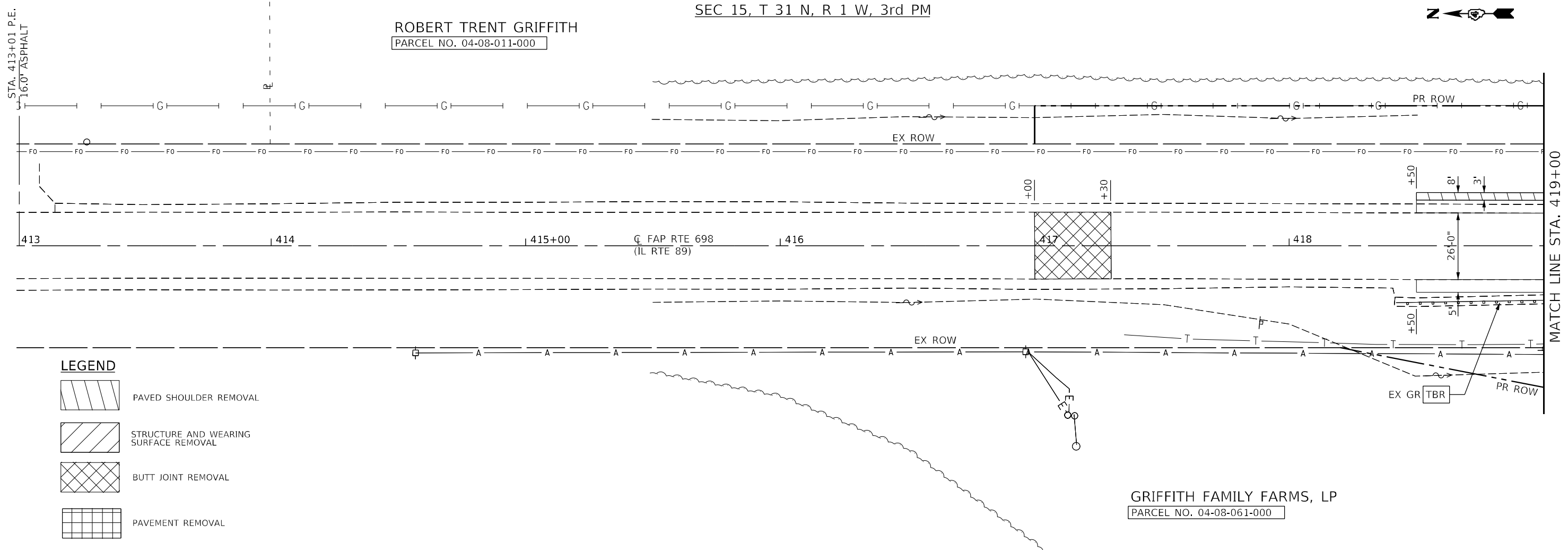
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	11
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
PLAN	
NO.	
NOTE BOOK	
NO.	
STRUCTURE	
NOTARIS	
NO.	
GRADINGS	
CHECKED	
PLOTTED	
SURVEYED	

DATE	
BY	
PROFILE	
NO.	
NOTE BOOK	
NO.	
STRUCTURE	
NOTARIS	
NO.	
GRADINGS	
CHECKED	
PLOTTED	
SURVEYED	

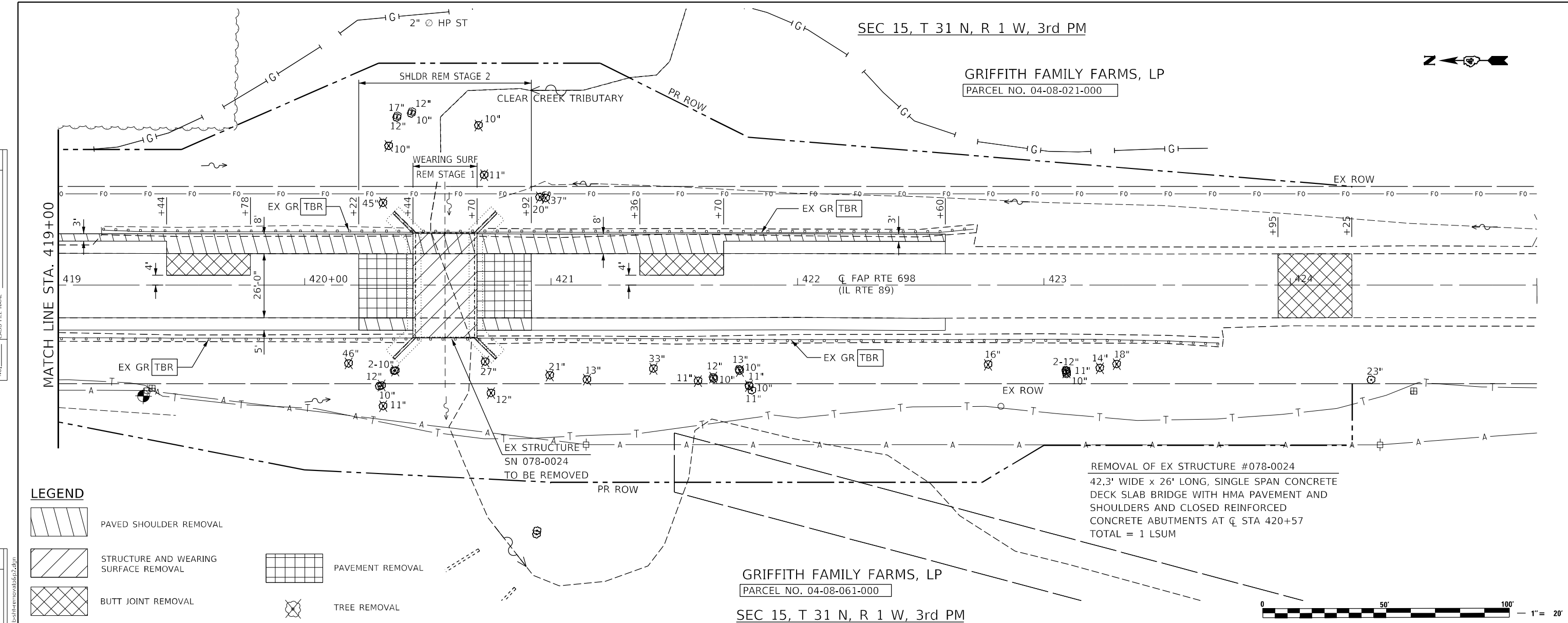
MODEL: Default
 FILE NAME: P:\CADD\DOT\DOT-DIS\141118\141118-033 var PH.dwg
 PROJECT: 3120032\W09 9 Combine Clear Creek and CC Trib 3120032-09\CAD\3-Sheets\141118-033-Removal.dwg



The Upchurch Group architects engineers surveyors 123 North 15th Street Mankato, IL 61308 Phone: 312.255.3177 License No. 184-803401 email: upchurchgroup@upchurchgroup.com	USER NAME = Station 44 TUG PROJECT NO. 3120032-09 PLOT SCALE = 40,0000 * / in. PLOT DATE = 10/12/2022	DESIGNED - MJS DRAWN - SAE CHECKED - MJS DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL PLAN AND PROFILE ILLINOIS ROUTE 89 OVER CLEAR CREEK TRIBUTARY	SCALE:	SHEET OF SHEETS STA. 413+00 TO STA. 419+00	F.A.P. RTE. 698 SECTION (122)BR, BR-1 COUNTY PUTNAM TOTAL SHEETS 124 SHEET NO. 16 CONTRACT NO. 68666	ILLINOIS FED. AID PROJECT
	ILLINOIS FED. AID PROJECT								

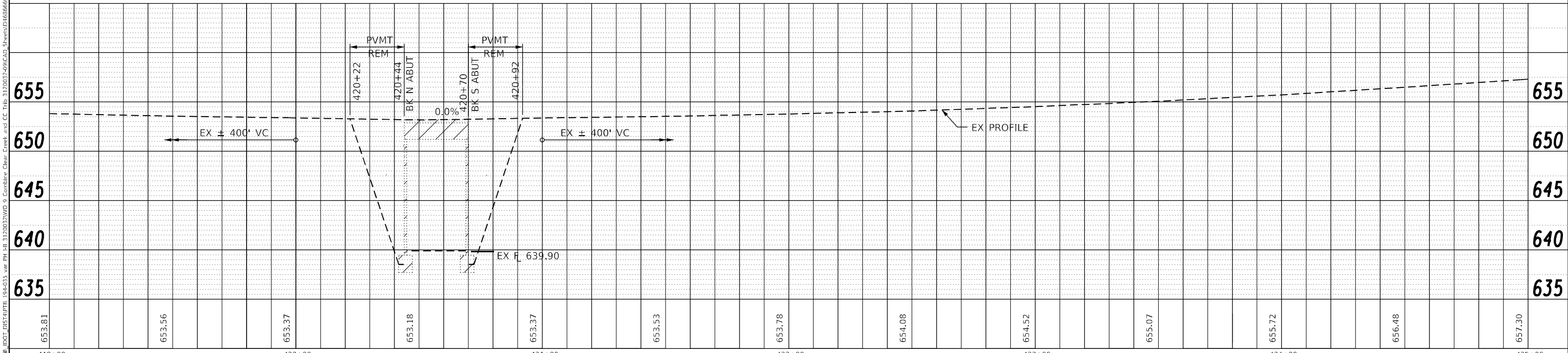
PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	

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



LEGEND

- PAVED SHOULDER REMOVAL
- STRUCTURE AND WEARING SURFACE REMOVAL
- BUTT JOINT REMOVAL
- PAVEMENT REMOVAL
- TREE REMOVAL



419+00	420+00	421+00	422+00	423+00	424+00	425+00
653.81	653.56	653.37	653.18	653.37	653.53	653.78
655	650	645	640	635	635	635

The Upchurch Group
architects engineers surveyors
Professional Design Firm Corporation
123 North 15th Street
Macon, IL 61938
Phone: 317.253.1777
License No. 184-801401
email: upchurchgroup@upchurchgroup.com

USER NAME = Station 44	DESIGNED - MJS	REVISED -
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED - MJS	REVISED -
PLOT DATE = 10/12/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN AND PROFILE
ILLINOIS ROUTE 89 OVER CLEAR CREEK TRIBUTARY

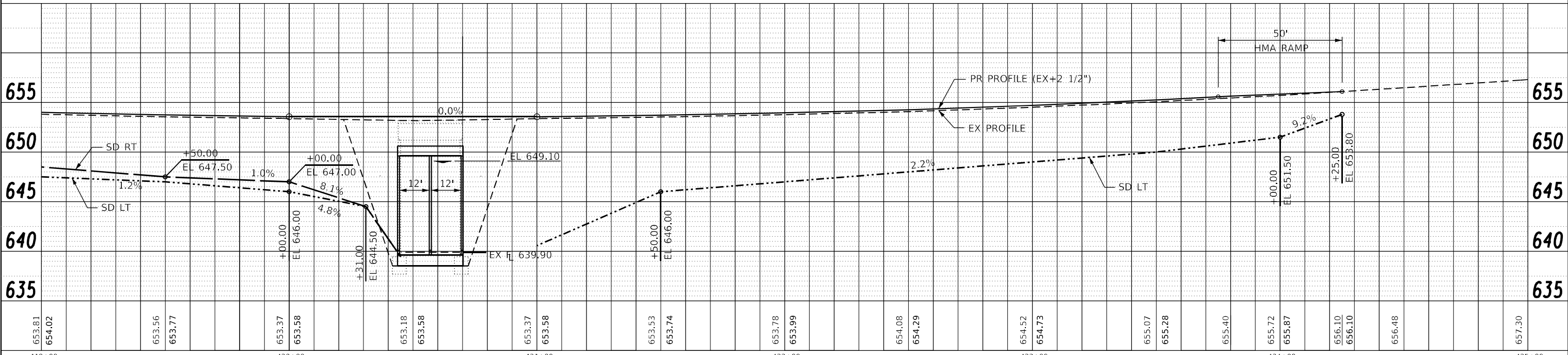
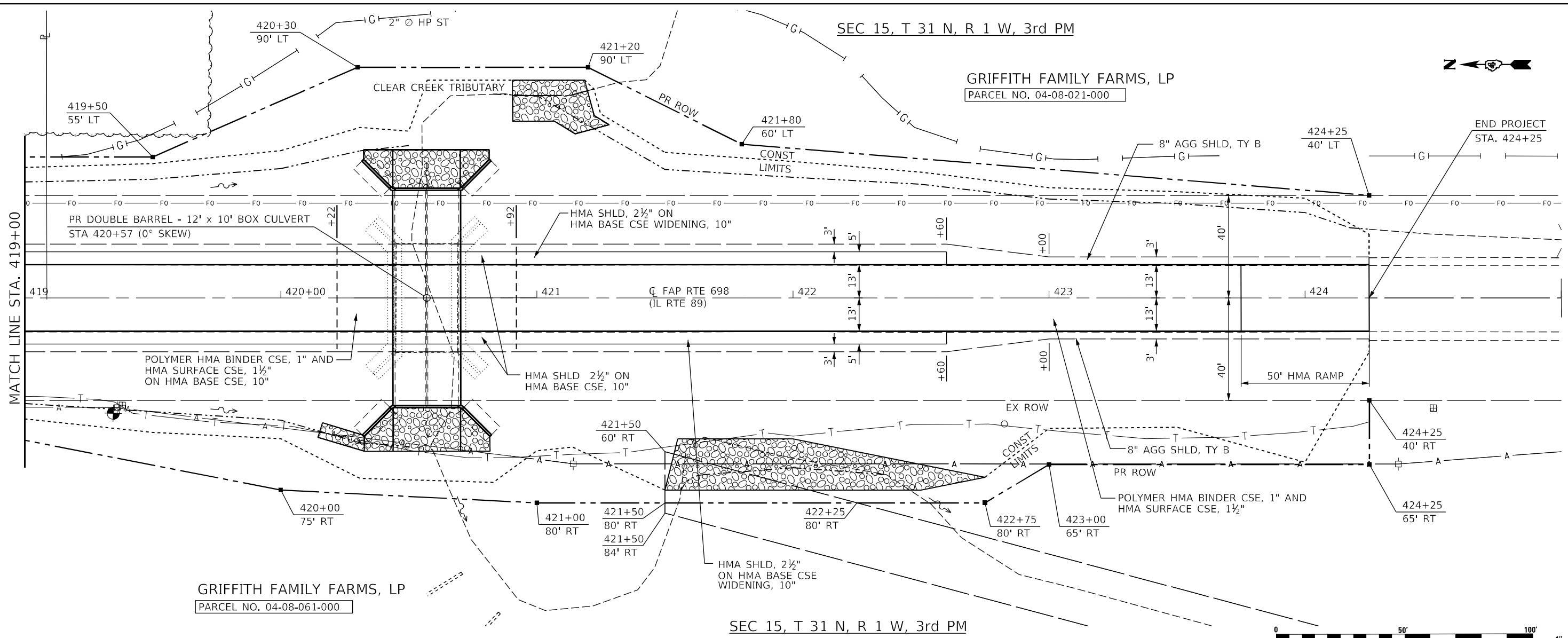
SCALE: SHEET OF SHEETS STA. 419+00 TO STA. 425+00

F.A.P. RTE. 698	SECTION (122)BR, BR-1	COUNTY PUTNAM	TOTAL SHEETS 124	SHEET NO. 17
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				

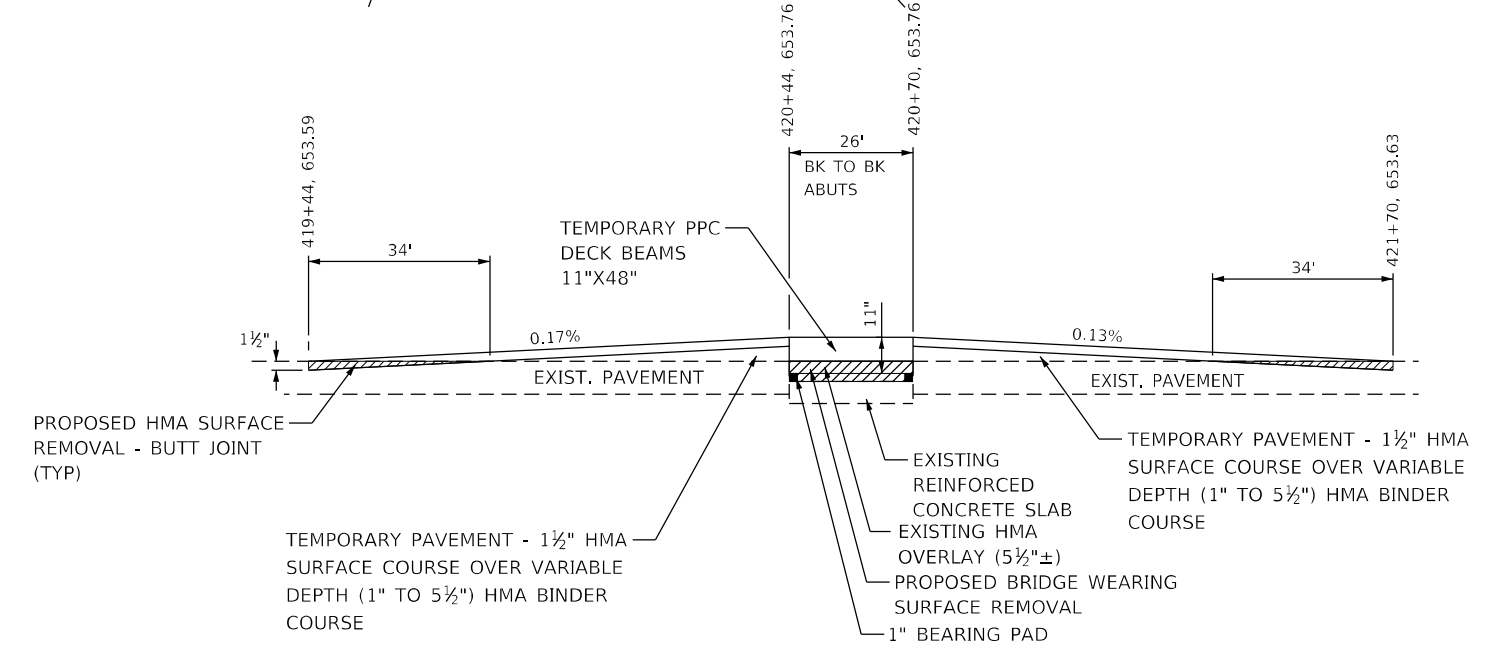
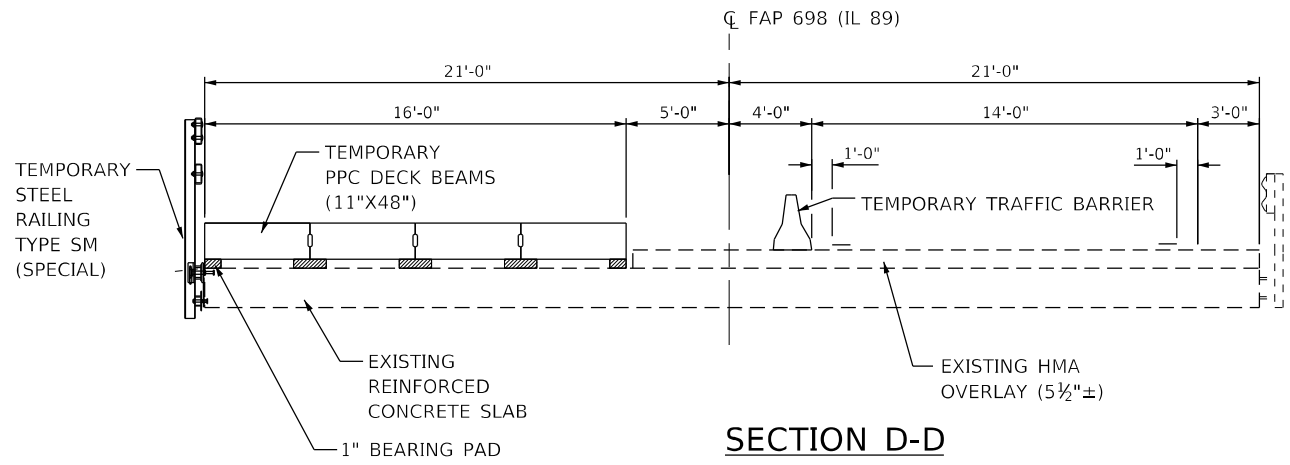
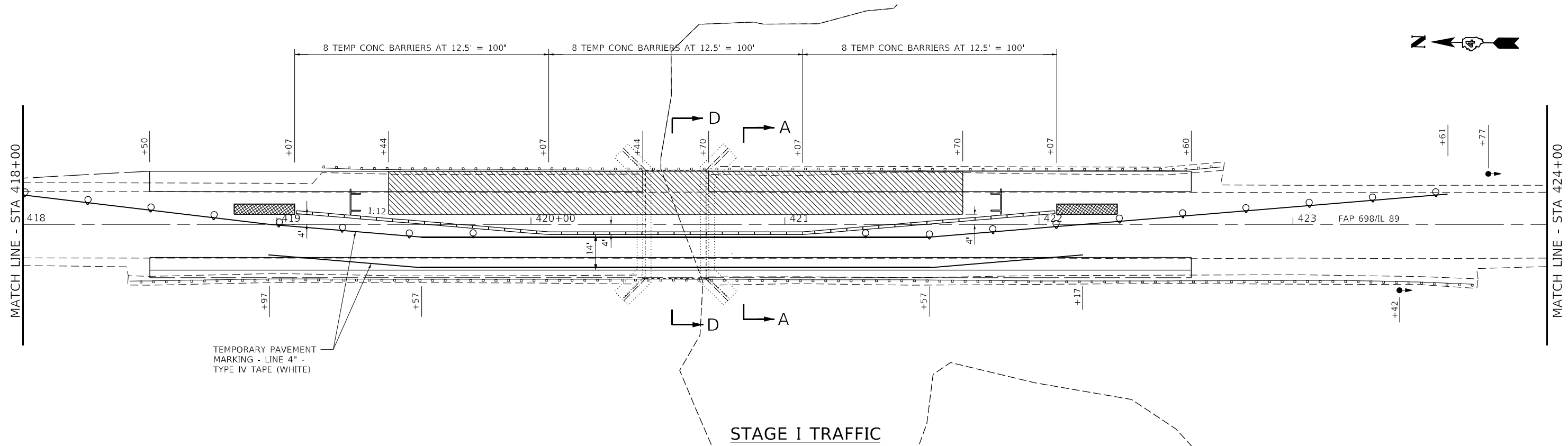
DATE	
BY	
PLAN	SURVEYED
	PLOTTED
	ALIGNED
	CHECKED
	NO. _____
	NOTE BOOK
	NO. _____
	CADD FILE NAME
	NO. _____

DATE	
BY	
PROFILE	SURVEYED
	PLOTTED
	GRADES CHECKED
	STRUCTURE NOTATIONS CIPWD
	NO. _____
	NOTE BOOK
	NO. _____

MODEL: Default
 FILE NAME: P:\CADD\DOT-DIST\14111B 194+033 var PM.dwg
 3120032\W05 Combine Clear Creek and CC Trp 3120032-09\CAD Sheets\14111B.dwg



The Upchurch Group architects engineers surveyors 123 North 15th Street Maitland, IL 61938 Phone: 312.253.1777 License No. 184-803401 email: upchurchgroup@upchurchgroup.com		USER NAME = Station 44 TUG PROJECT NO. 3120032-09 PLOT SCALE = 40,0000 * / in. PLOT DATE = 5/9/2022	DESIGNED - MJS DRAWN - SAE CHECKED - MJS DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		PLAN AND PROFILE ILLINOIS ROUTE 89 OVER CLEAR CREEK TRIBUTARY		F.A.P. RTE. 698 SECTION (122)BR, BR-1 COUNTY PUTNAM TOTAL SHEETS 124 SHEET NO. 19 CONTRACT NO. 68666	SCALE: _____ SHEET _____ OF _____ SHEETS STA. 419+00 TO STA. 425+00	ILLINOIS FED. AID PROJECT
---	--	--	--	--	---	--	--	--	---	---	---------------------------



TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701321 AND THESE DETAILS

LEGEND

- WORK AREA
- IMPACT ATTENUATOR
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- DOUBLE VERTICAL PANEL
- TRAFFIC SIGNAL
- INDUCTION LOOP DETECTOR
- TEMPORARY CONCRETE BARRIER



MODEL: D:\p\11\11\DOT_DIST\TBTB_194-035_war_PN_ILI_3120032\WO_9_Combine_Clear_Creek_and_CC_Trib_3120032-09\CAD_Sheets\11468666\11-11-2022\TBTB.dgn

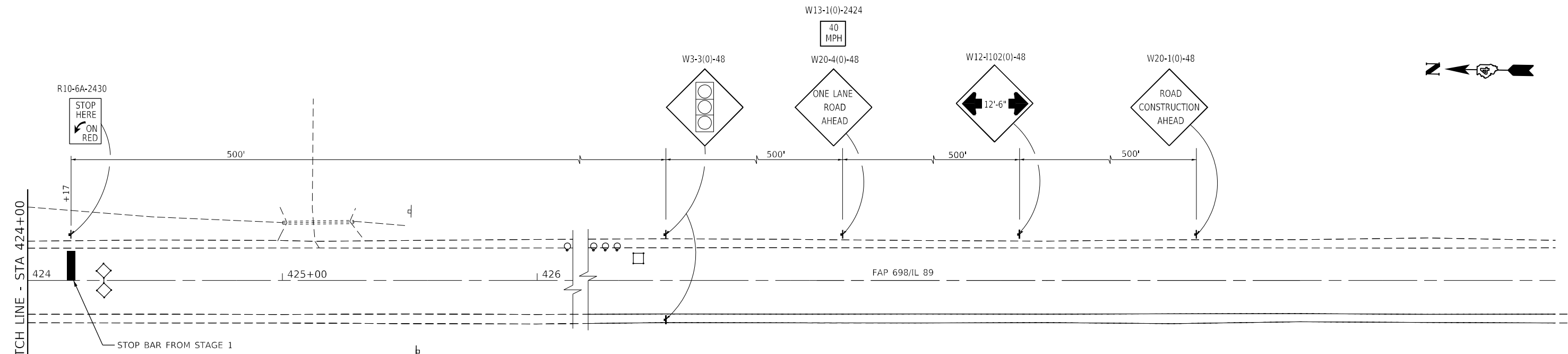
The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 123 North 15th Street
 Moline, IL 61438
 Phone: 312.253.3177
 License No. 184-003401
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Sta42	DESIGNED - MJS	REVISED -
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED - MJS	REVISED -
PLOT DATE = 10/12/2022	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL PLANS - STAGE I			
ILLINOIS ROUTE 89 OVER CLEAR CREEK TRIBUTARY			
SCALE:	SHEET	OF SHEETS	STA. 418+00 TO STA. 424+00

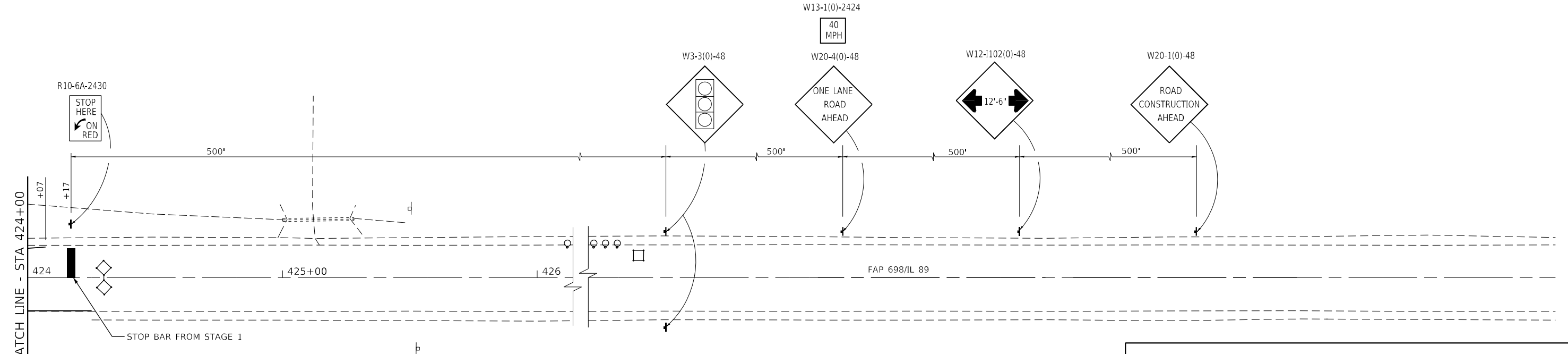
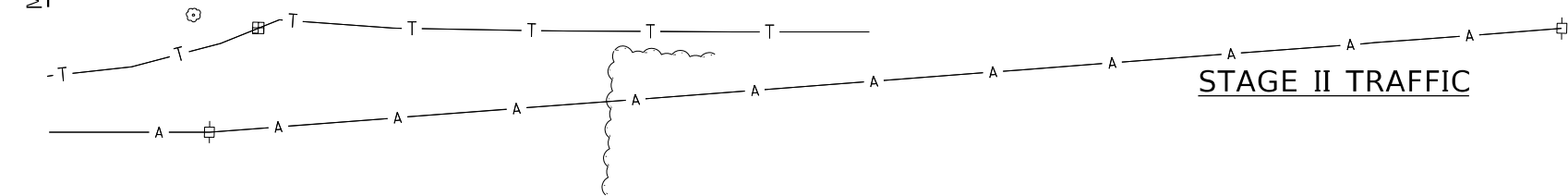
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	22
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				



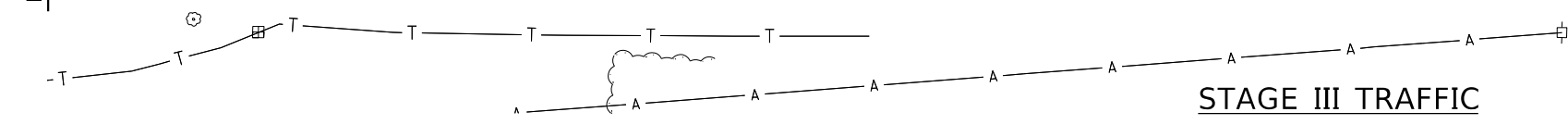
LEGEND

- WORK AREA
- IMPACT ATTENUATOR
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- DOUBLE VERTICAL PANEL
- TRAFFIC SIGNAL
- INDUCTION LOOP DETECTOR
- TEMPORARY CONCRETE BARRIER

STAGE II TRAFFIC



STAGE III TRAFFIC



TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701321 AND THESE DETAILS



MODEL: D:\p\h\ The Upchurch Group architects engineers surveyors
 FILE NAME: P:\C\upch\ IDOT_DIST\TIB 194-035 var PH ILL 3120032\WO 9 Combine Clear Creek and CC Trib 3120032-09\CAD_Sheets\146866\rib-ht-mo04.dgn
 PLOT DATE = 5/9/2022

The Upchurch Group
 architects engineers surveyors
 123 North 15th Street
 Moline, IL 61938
 Phone: 312.255.3177
 License No. 18-0903401
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Station 44
 TUG PROJECT NO. 3120032-09
 PLOT SCALE = 40,0000 * / in.
 PLOT DATE = 5/9/2022

DESIGNED - MJS	REVISED -
DRAWN - SAE	REVISED -
CHECKED - MJS	REVISED -
DATE -	REVISED -

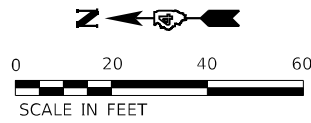
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLANS - STAGE II AND III
 ILLINOIS ROUTE 89 OVER CLEAR CREEK TRIBUTARY**

SCALE: SHEET OF SHEETS STA. 424+00 TO STA. 430+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	26
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				

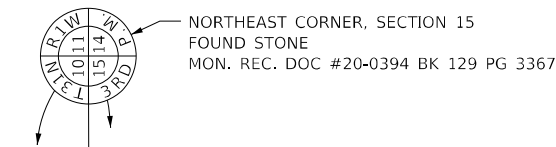
BEARINGS ARE BASED ON CONTROL PROVIDED BY IDOT, DISTRICT 4



SEC 15, T 31 N, R 1 W, 3rd P.M.

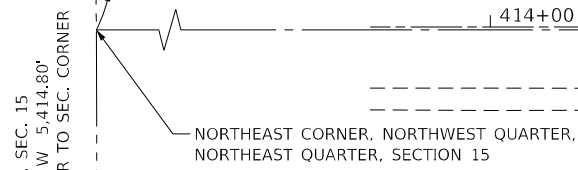
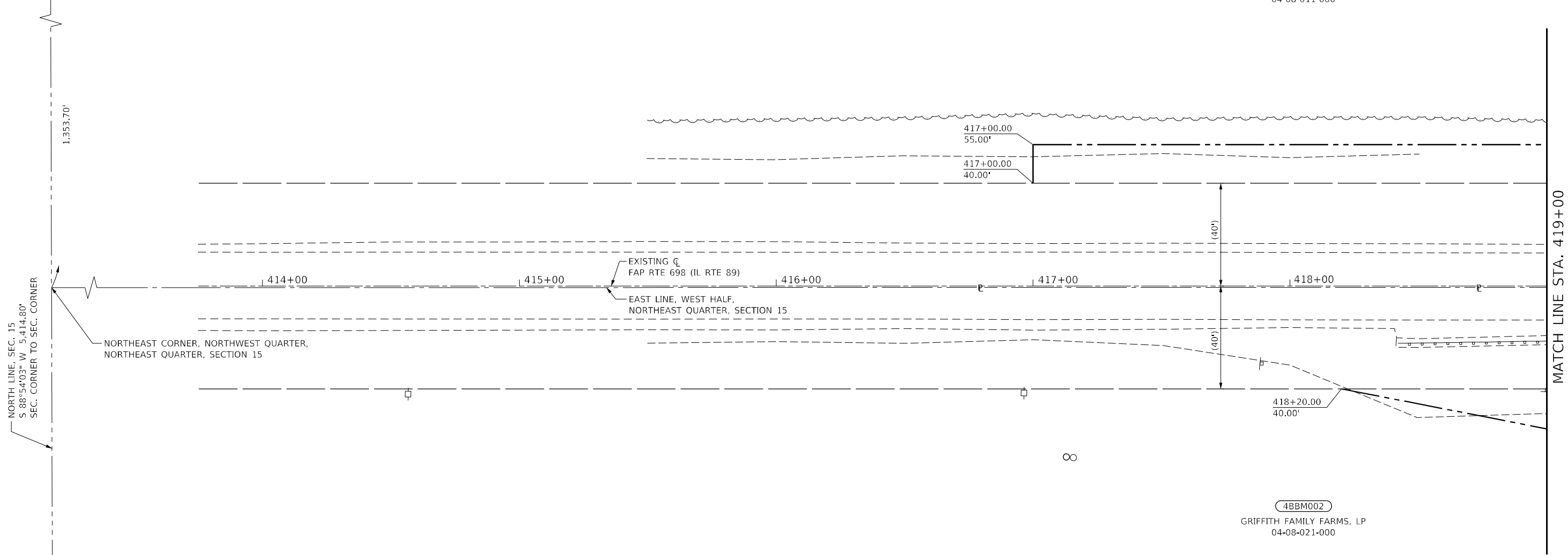
LEGEND

- EXISTING CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- SECTION LINE
- QUARTER-QUARTER SECTION LINE
- PROPERTY LINE



E 1/2, NE 1/4, SECTION 15

4BBM001
ROBERT TRENT GRIFFITH
04-08-011-000



W 1/2, NE 1/4, SECTION 15

4BBM002
GRIFFITH FAMILY FARMS, LP
04-08-021-000

MODEL: D:\p\h\... FILE NAME: P:\C\... IDOT_DIST\... 194-035 var PH_H 3120032\W0 9 Combine Clear Creek and CC Trib 3120032-09\CAD_Sheets\468666\rib-sh-covtab01.dgn

The Upchurch Group
architects engineers surveyors

Professional Design Firm Corporation
123 North 15th Street
Maitland, IL 61138
Phone: 212.253.3177
License No. 194-00301
e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Station 44	DESIGNED -	REVISED -
TUG PROJECT NO. 3119049-05	DRAWN - SAE	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - DEH	REVISED -
PLOT DATE = 5/9/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RIGHT OF WAY PLANS			
PROJECT	JOB NO.	SCALE:	SHEET OF SHEETS
FAP RTE. 698	R-94-011-20	1" = 20'	28
SECTION (122)BR, BR-1	PUTNAM		124
CATALOG #033410-00	CONTRACT NO. 68666		
STA.	TO STA.		

F.A.P. RTE. 698	SECTION (122)BR, BR-1	COUNTY PUTNAM	TOTAL SHEETS 124	SHEET NO. 28
CATALOG #033410-00		CONTRACT NO. 68666		
ILLINOIS FED. AID PROJECT				

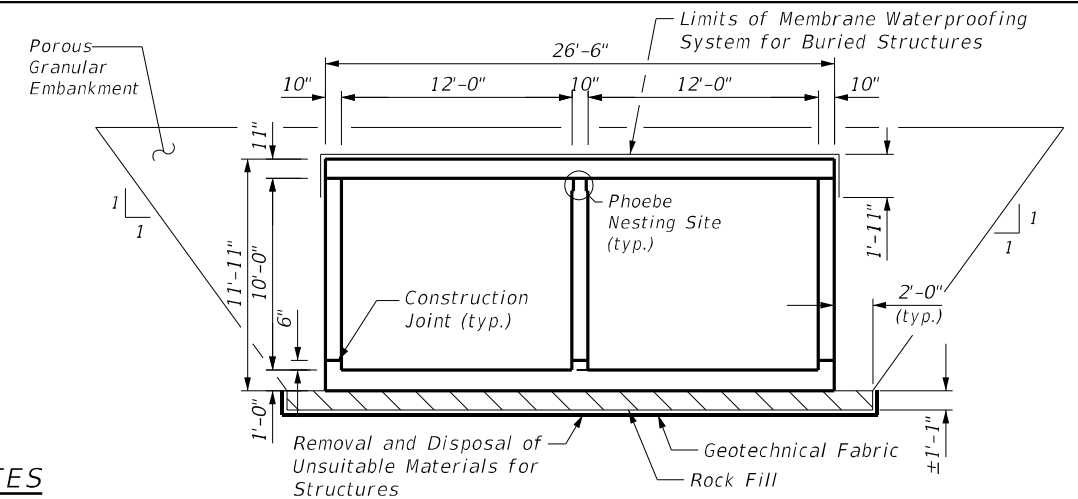
BENCHMARK: Railroad spike on west side of first power pole - north of bridge and west of IL Route 89. Elevation: 651.05

EXISTING STRUCTURE: S.N. 078-0024 to be removed. Built in 1928 as SBI 89, Section 122B, at Sta. 420+57. Single span, Reinforced Concrete Slab, 26'-0" back to back of abutments, 42'-0" deck width. Reinforced Concrete Closed Abutments on Timber Piles. Bridge to be removed. No salvage. Traffic to be maintained utilizing Stage Construction.

WATERWAY INFORMATION

Drainage Area = 3.76 sq mi		Existing Low Grade Elev. 653.18 @ Sta. 420+50		Proposed Low Grade Elev. 653.37 @ Sta. 420+50		
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Nat. H.W.E. Exist.	Head - Ft. Exist.	Headwater El. Exist.
Design	10	705	174	192	647.9	648.0
Base	50	1160	198	216	648.9	649.0
Max. Calc.	100	1370	207	226	649.3	649.4
	500	1880	229	240	650.2	650.3

10 Year Velocity Through Existing Bridge = 4.1 ft/s
10 Year Velocity Through Proposed Bridge = 3.7 ft/s



SECTION THRU BARREL

STATION 420+57.00
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RTE. 698 SEC. (122)BR, BR-1
LOADING HL-93
STRUCTURE NO. 078-2012

NAME PLATE
See Std. 515001

DESIGN SPECIFICATIONS
2015 AASHTO LRFD Bridge Design Specifications, 8th edition

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES
FIELD UNITS

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

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Structure Excavation	Cu. Yd.		683	683
Porous Granular Embankment	Cu. Yd.		424	424
Precast Prestressed Concrete Deck Beams (11" depth)	Sq. Ft.	416		416
Stone Riprap, Class A4	Ton		155	155
Filter Fabric	Sq. Yd.		147	147
Reinforcement Bars, Epoxy Coated	Pound		55370	55370
Bar Splicers	Each		134	134
Steel Railing, Type SM (Special)	Foot	27		27
Temporary Sheet Piling	Sq. Ft.		687	687
Name Plates	Each	1		1
Removal of Existing Structures	Each	1		1
Concrete Box Culverts	Cu. Yd.		299	299
Removal & Disposal of Unsuitable Material for Structures	Cu. Yd.		107	107
Rock Fill	Cu. Yd.		107	107
Membrane Waterproofing System for Buried Structure	Sq. Yd.		293	293
Geotechnical Fabric for Ground Stabilization	Sq. Yd.		310	310

GENERAL PLAN AND ELEVATION
ILLINOIS ROUTE 89 OVER CLEAR CREEK TRIBUTARY

F.A.P. RTE. 698 -SEC. (122)BR, BR-1

PUTNAM COUNTY

STATION 420+57.00

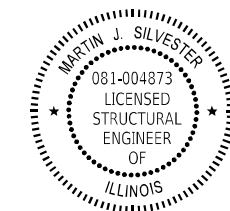
STRUCTURE NO. 078-2012

GENERAL NOTES

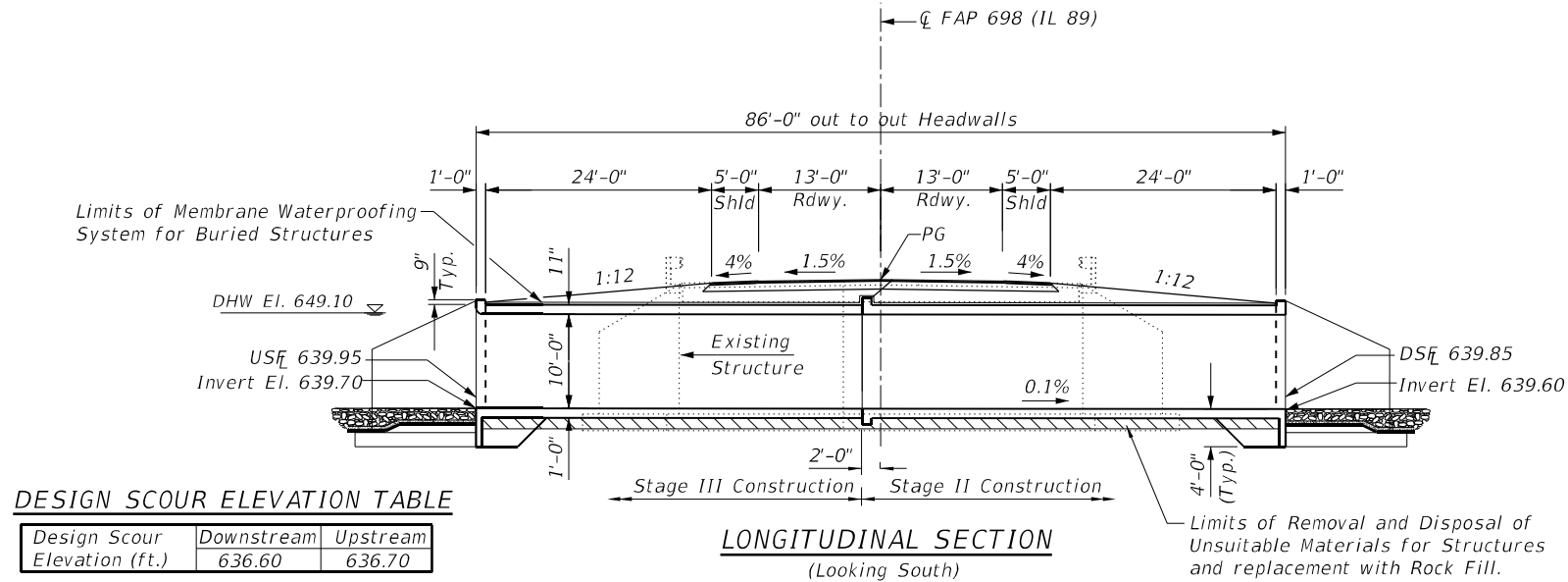
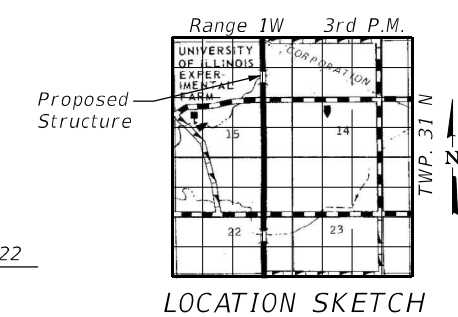
- Precast Box Culvert alternate is not allowed.
- Reinforcement bars designated (E) shall be epoxy coated.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage II removal to ensure the remaining portion will not be prematurely damaged.
- The removal of Unsuitable Material below the structure, paid as Removal and Disposal of Unsuitable Material, and replacement with Rock Fill as shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.
- The Rock Fill shall be capped as indicated in the Special Provisions.
- Existing abutments shall be removed 2 ft. below the proposed culvert barrel and backfilled with Rock Fill.
- Backfill for the culvert excavation shall consist of Porous Granular Embankment under the proposed roadway and shoulders.
- Excavation for placing Porous Granular Embankment is paid for as Structure Excavation.
- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

INDEX OF SHEETS

- General Plan and Elevation
- Stage Construction
- Temporary 11"x48" PPC Deck Beam
- Temporary Superstructure Details
- Temporary Steel Railing Type SM
- Temporary Concrete Barrier for Stage Construction
- Culvert Plan and Elevation
- Culvert Details
- Bar Splicer Assembly and Mechanical Splicer Details
- Soil Boring B-1
- Soil Boring B-2
- Soil Boring B-3
- Existing Structure - Abutments
- Existing Structure - Superstructure

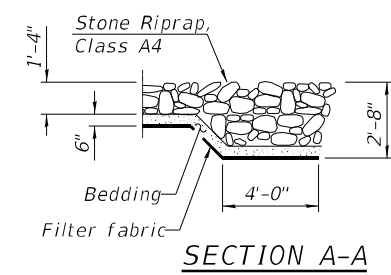
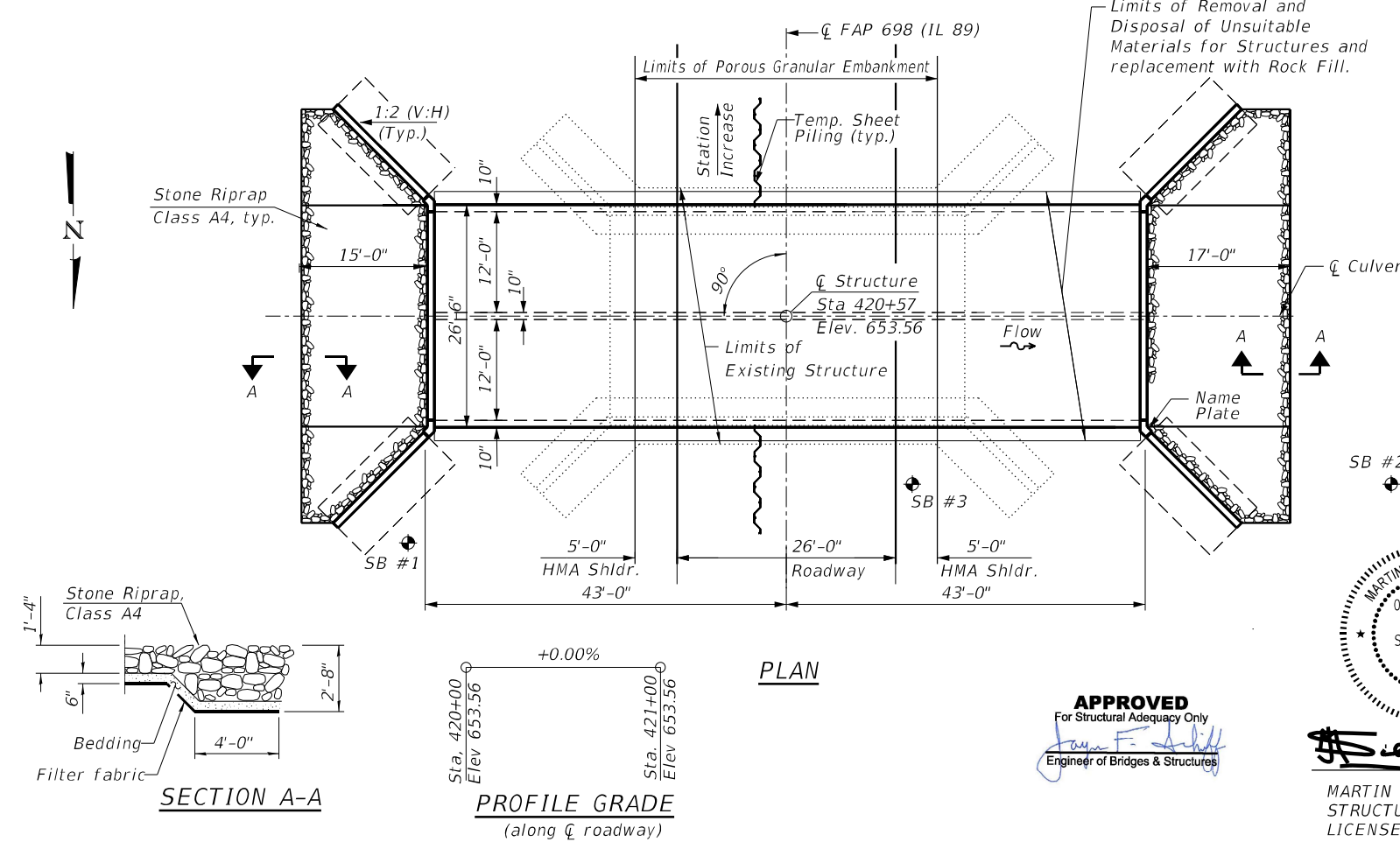


APPROVED
For Structural Adequacy Only
5-20-22
MARTIN J. SILVESTER
STRUCTURAL ENGINEER
LICENSE EXP. DATE 11-30-22



DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Downstream	Upstream
	636.60	636.70



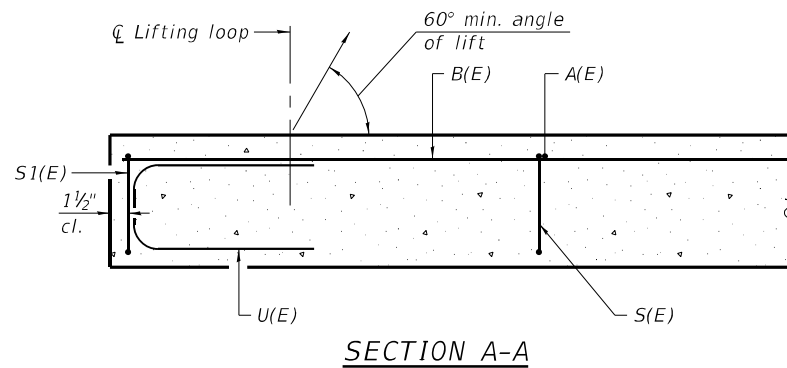
MODEL Detail: The Upchurch Group architects engineers surveyors 123 North 15th Street Maitland, FL 32751 Phone: 317.253.3177 License No. 184405301 Email: upchurchgroup@upchurchgroup.com

The Upchurch Group
architects engineers surveyors
123 North 15th Street
Maitland, FL 32751
Phone: 317.253.3177
License No. 184405301
Email: upchurchgroup@upchurchgroup.com

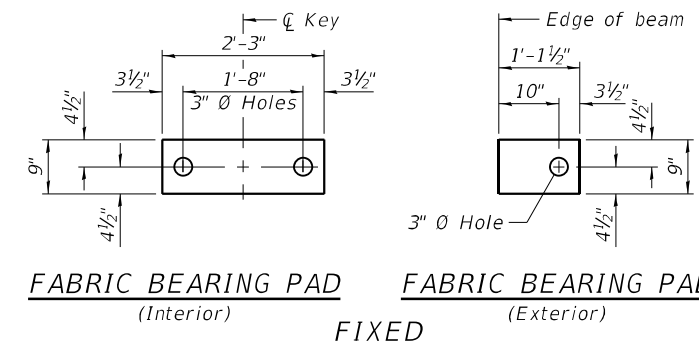
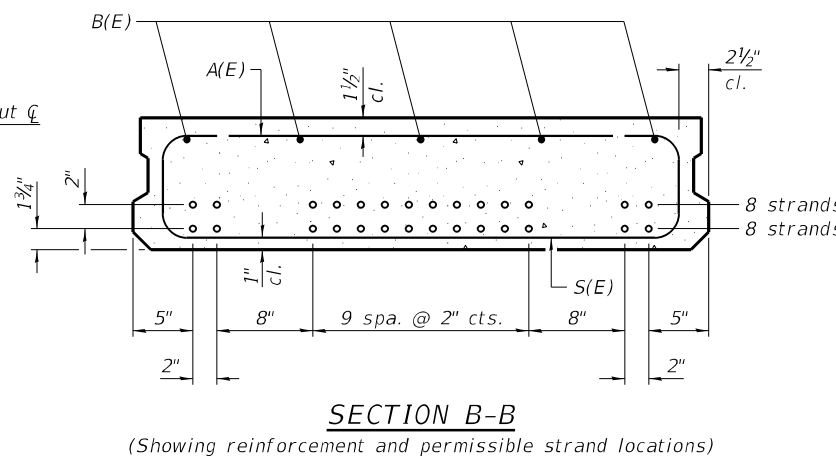
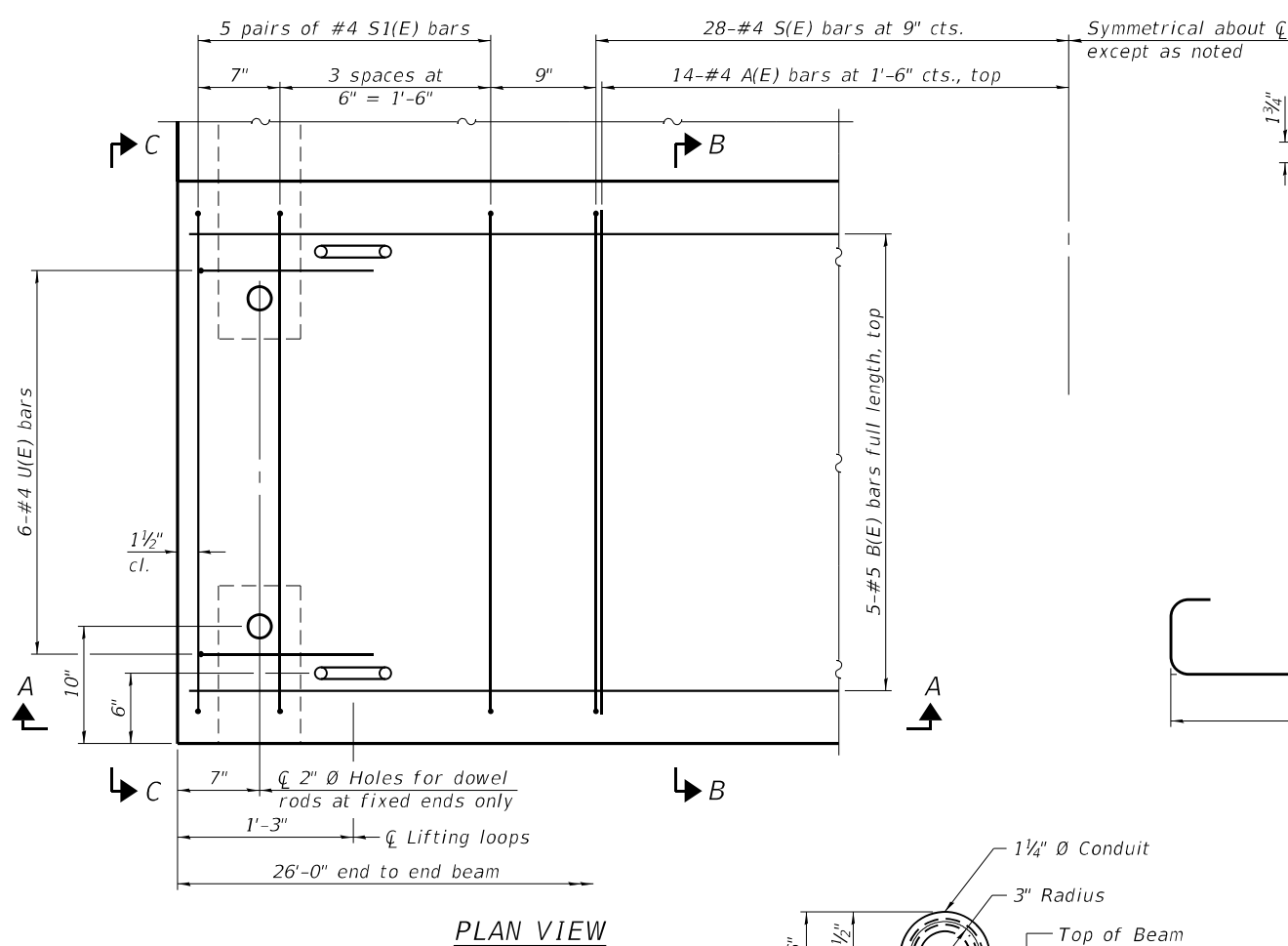
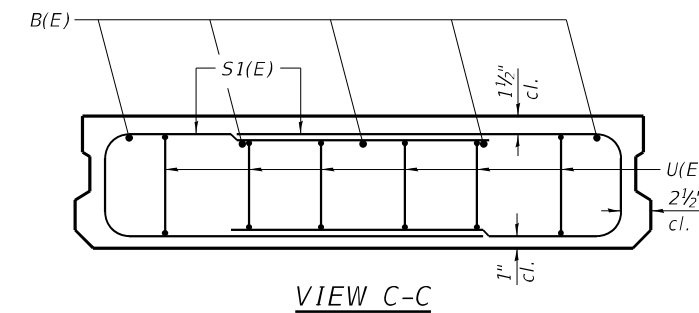
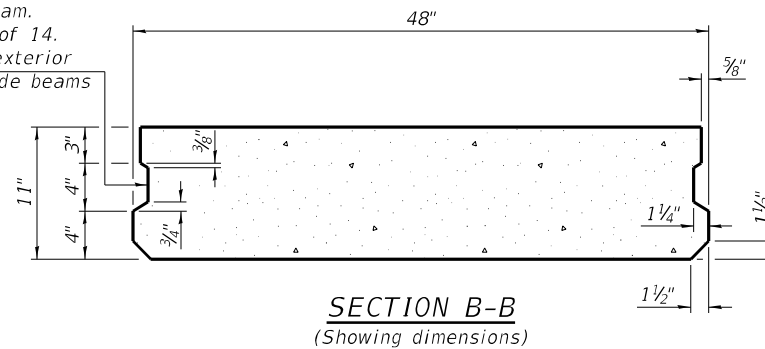
USER NAME = Sta42	DESIGNED - MJS	REVISED -
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISED -
PLOT SCALE = 20:0,0000 "/> <td>CHECKED - MJS</td> <td>REVISED -</td>	CHECKED - MJS	REVISED -
PLOT DATE = 10/14/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

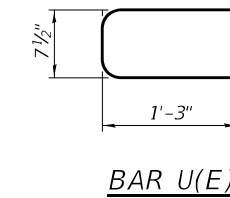
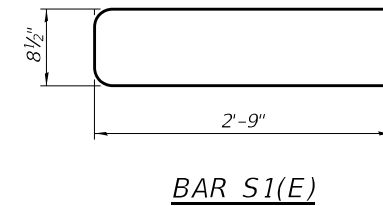
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	30
CONTRACT NO. 68666			ILLINOIS FED. AID PROJECT	



Provide Bar Splicers for Temporary Concrete Barrier on exterior face of outside beam. See Sheet 6 of 14. Omit key on exterior face of outside beams

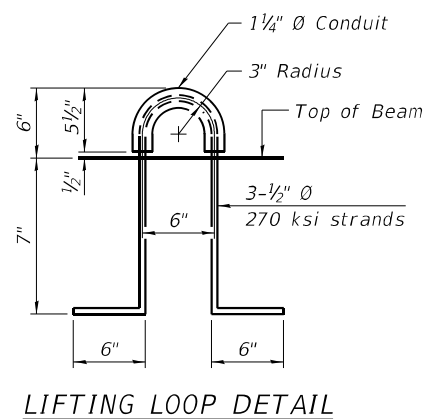


Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.



BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	14	#4	3'-7"	—
B(E)	5	#5	25'-9"	—
S(E)	28	#4	5'-9"	U
S1(E)	20	#4	6'-3"	U
U(E)	12	#4	3'-2"	U



NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2 inch and the nominal cross-sectional area shall be 0.153 sq. in.

Two 1/8 inch fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2 1/2 inch diameter lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (11" depth)	Sq. Ft.	416
---	---------	-----

MODEL Detail: PD-1148-0 1-1-2020 THE UPCHURCH GROUP ARCHITECTS SURVEYORS 123 North 15th Street Maitland, FL 32751 PHONE: 407-255-3177 LICENSE NO. 1844053401 EMAIL: upchurchgroup@upchurchgroup.com

PD-1148-0

1-1-2020

The Upchurch Group
architects engineers surveyors
123 North 15th Street
Maitland, FL 32751
Phone: 407-255-3177
License No. 1844053401
Email: upchurchgroup@upchurchgroup.com

USER NAME = Station 44
TUG PROJECT NO. 3120032-09
PLOT SCALE = 0.1667' / in.
PLOT DATE = 5/9/2022

DESIGNED - MJS
DRAWN - SAE
CHECKED - MJS
DATE -

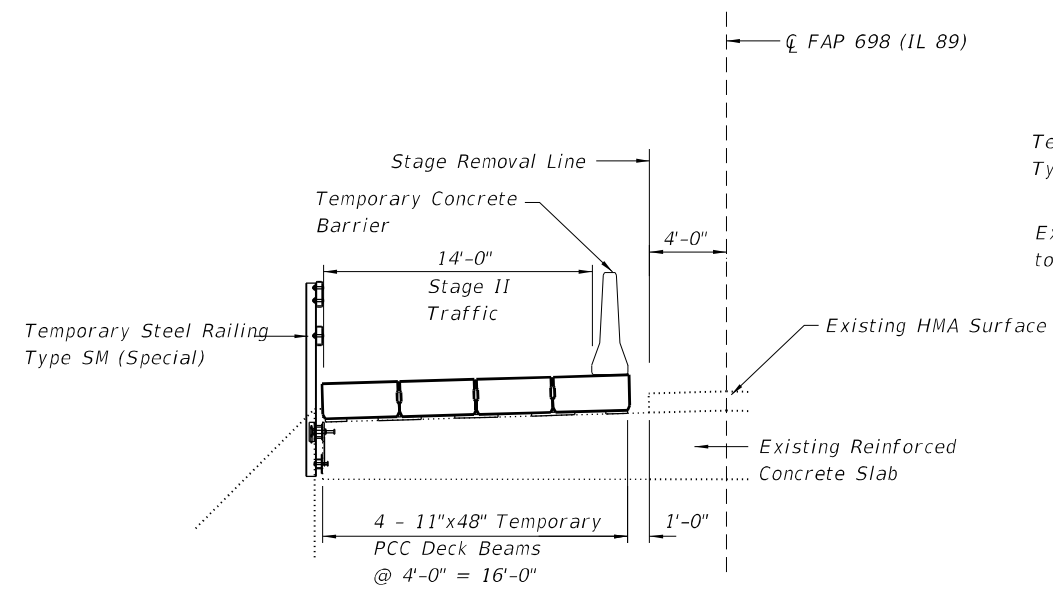
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

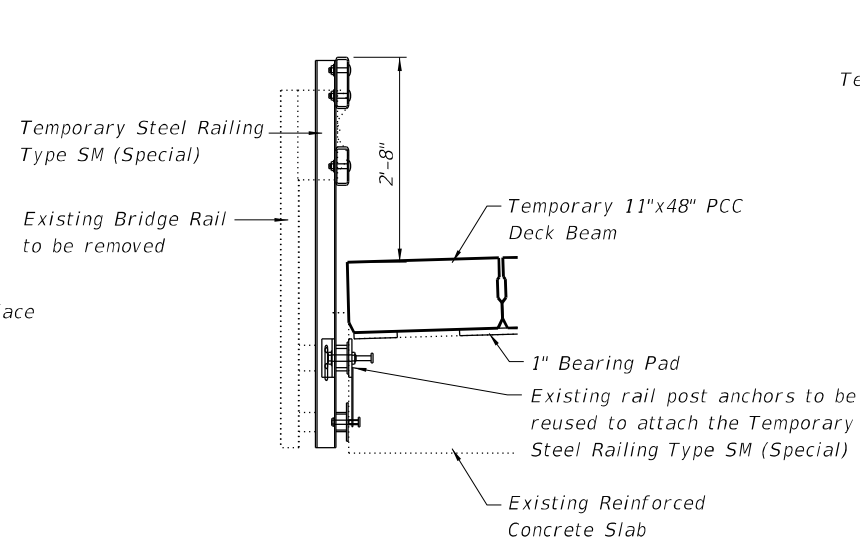
TEMPORARY 11" x 48" PPC DECK BEAM
STRUCTURE NO. 078-2012

SHEET NO. 3 OF 14 SHEETS

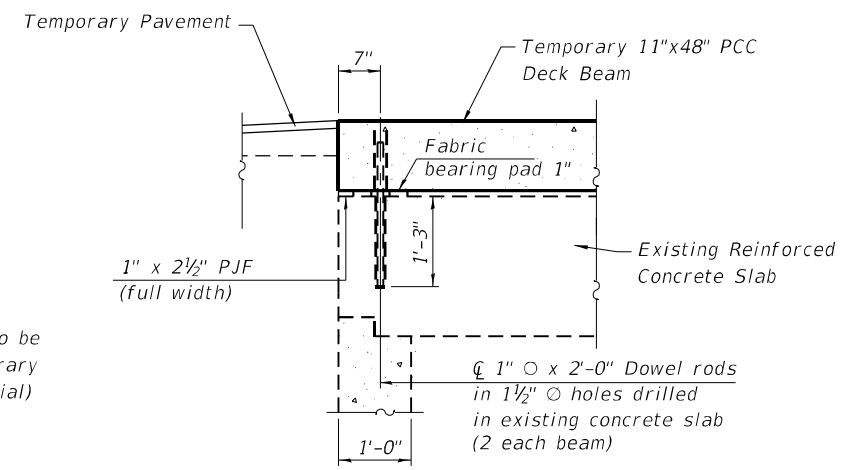
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	32
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68666	



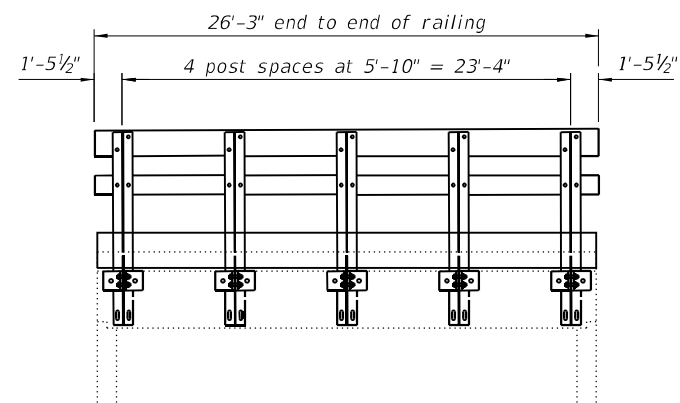
TYPICAL CROSS SECTION



SECTION



ABUTMENT DETAIL



RAIL POST SPACING

(Dimensions to be field verified.
By Contractor prior to fabrication)

MODEL Default: The Upchurch Group architects engineers surveyors 123 North 15th Street Maitland, IL 61938 Phone: 217.233.3177 Email: upchurchgroup@upchurchgroup.com
 FILE Name: P:\work\DOT_DIST\PTB 194-035 var PH IL 3120032\WO 9 Combine Clear Creek and CC Trb 3120032-09\CAD_Sheets\0782012-68666-004-Temporary Superstructure Details.dgn

The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 License No. 1844053401

USER NAME = Station 44
 TUG PROJECT NO. 3120032-09
 PLOT SCALE = 10:0,0000 "1" / in.
 PLOT DATE = 5/9/2022

DESIGNED - MJS
 DRAWN - SAE
 CHECKED - MJS
 DATE -

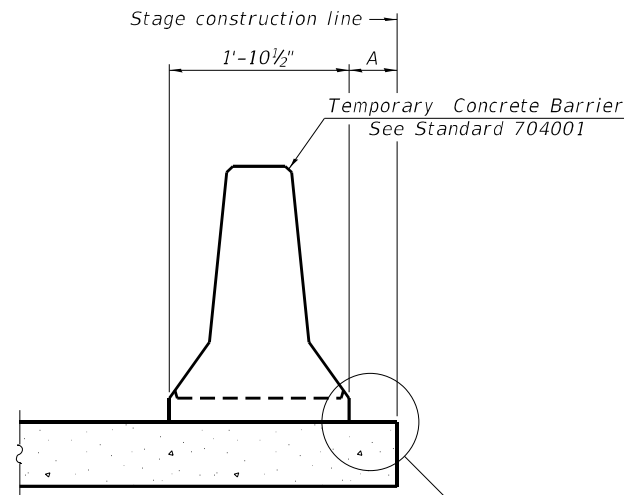
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY SUPERSTRUCTURE DETAILS
 STRUCTURE NO. 078-2012**

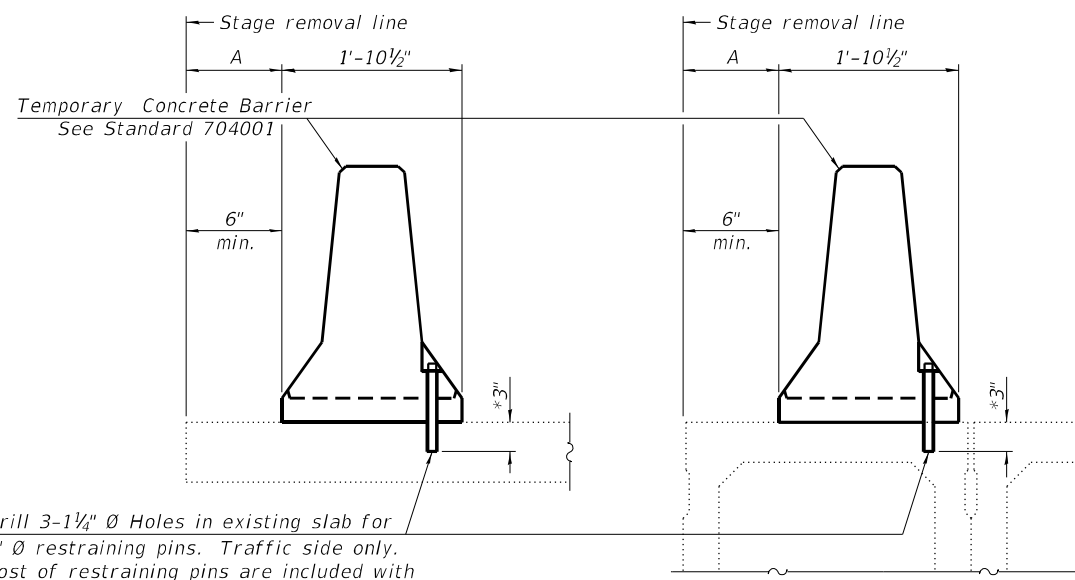
SHEET NO. 4 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	33
CONTRACT NO. 68666				
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



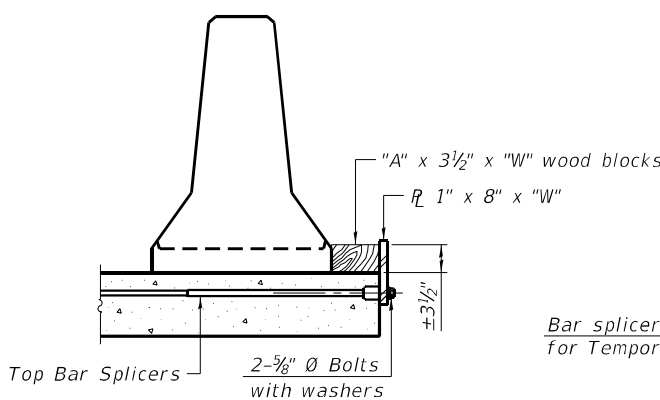
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

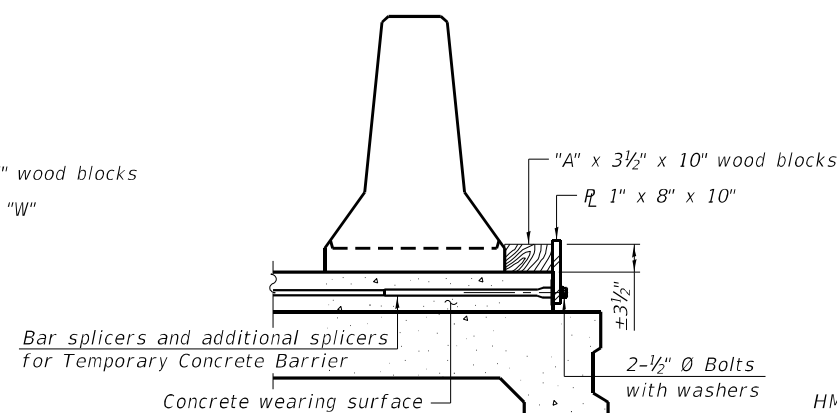
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

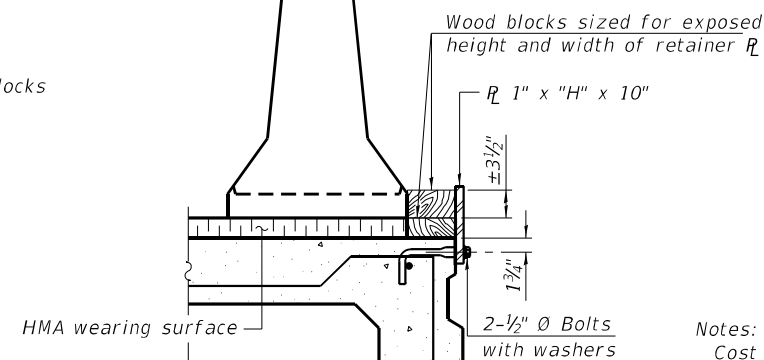
SECTIONS THRU SLAB OR DECK BEAM



DETAIL I



DETAIL II



DETAIL III

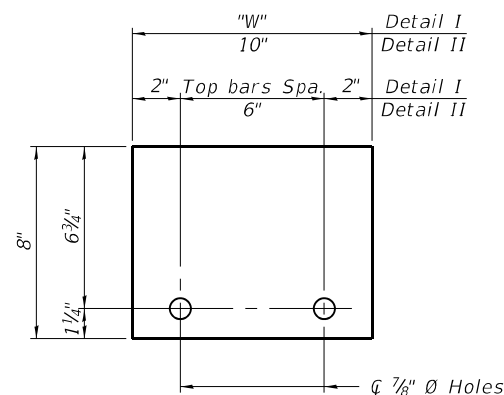
RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 10-12-2021

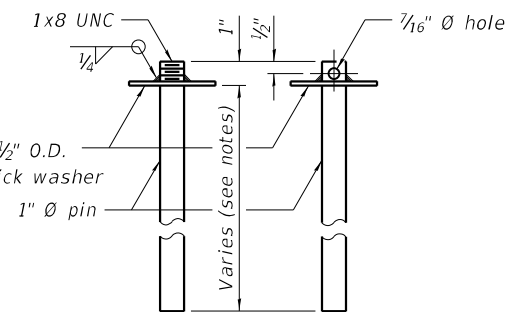
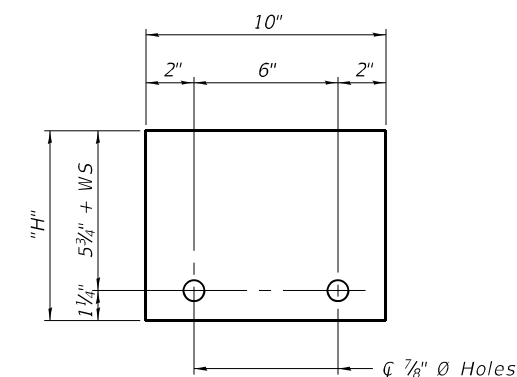
STEEL RETAINER R 1" x 8" x "W"

(Detail I and II)



STEEL RETAINER R 1" x "H" x 10"

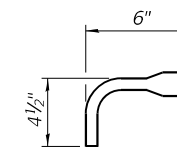
(Detail III)



RESTRAINING PIN

US Std. 1 1/16" I.D. x 2 1/2" O.D. x approx. 8 gauge thick washer

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 \bar{c} 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 1 1/2", 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.

MODEL Detail: FILE NAME: P:\dwg\DOT_DIST\DOTB 104-035 var PH-11 3120032\WO 9 Combine Clear Crct and CC Trb 3120032-09\CAD_Sheets\072012-68666-006-TCB.dwg

The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 123 North 15th Street
 Maitland, FL 32751
 Phone: 317-233-3177
 License No. 1844053401
 Email: upchurchgroup@upchurchgroup.com

USER NAME = Station 44
 TUG PROJECT NO. 3120032-09
 PLOT SCALE = 8.3333' / in.
 PLOT DATE = 5/9/2022

DESIGNED - MJS
 DRAWN - SAE
 CHECKED - MJS
 DATE -

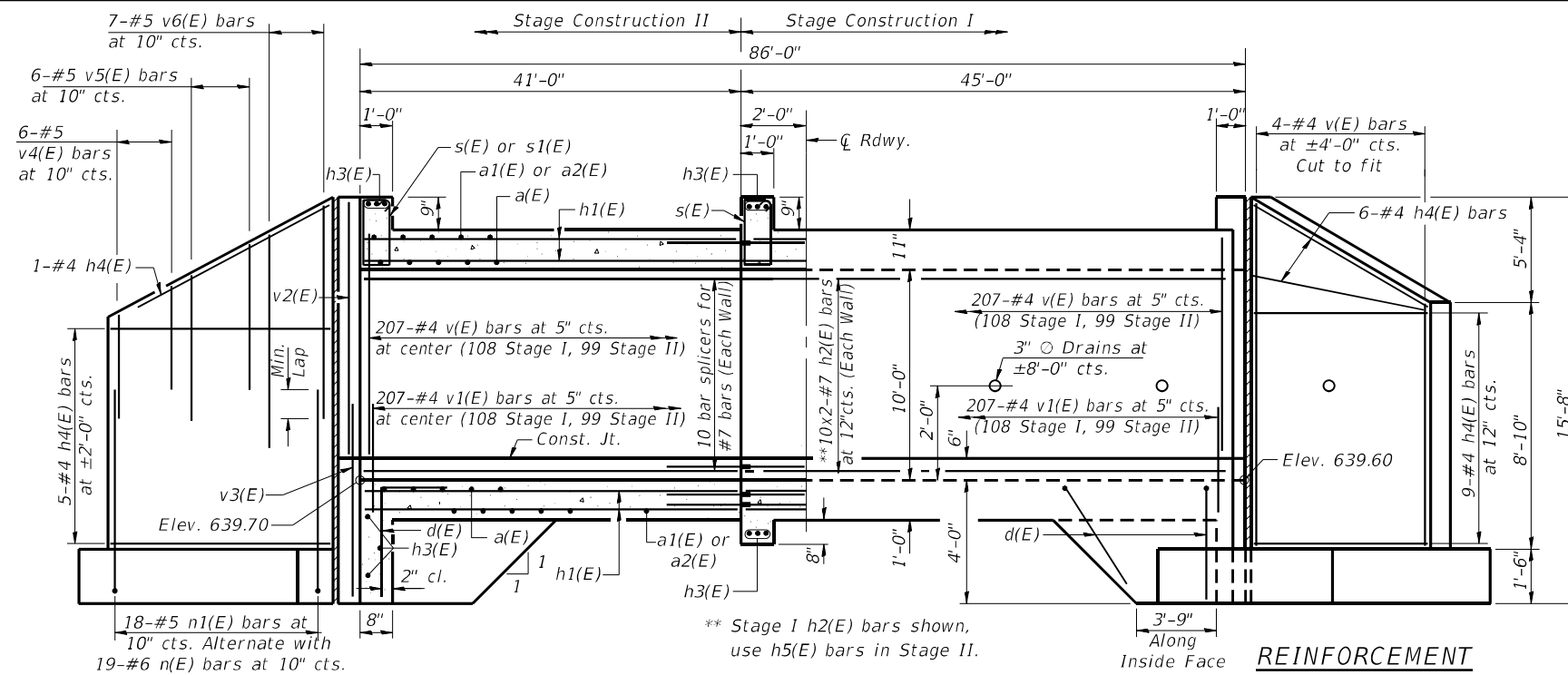
REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

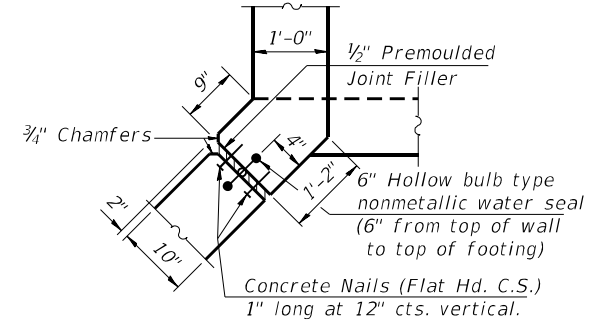
TEMPORARY CONCRETE BARRIER
STRUCTURE NO. 078-2012

SHEET NO. 6 OF 14 SHEETS

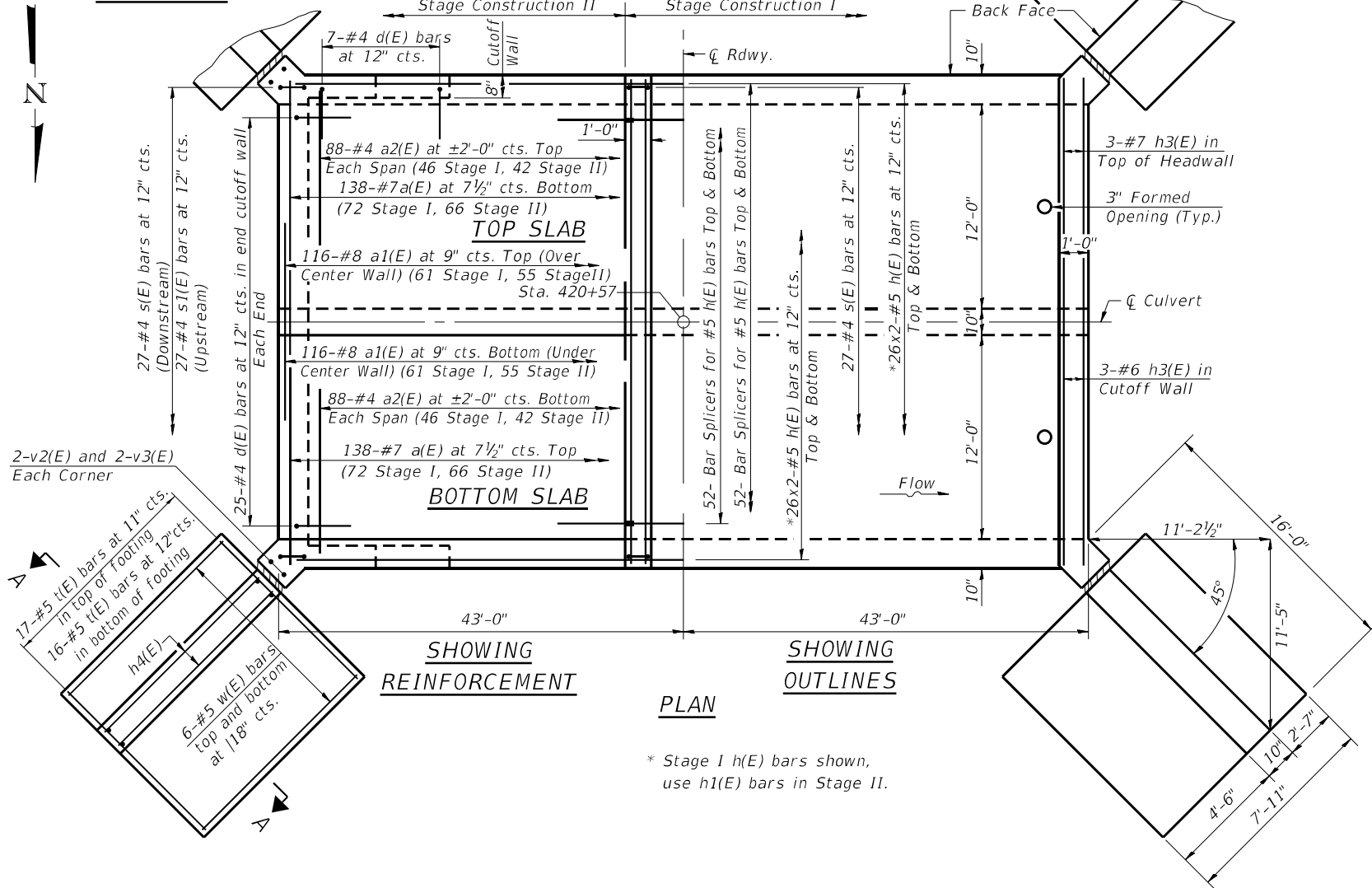
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	35
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				



REINFORCEMENT BACK FACE
HALF LONG. SECTION Showing bars in Center Wall
HALF ELEVATION Showing bars in Outside Wall
REINFORCEMENT FRONT FACE

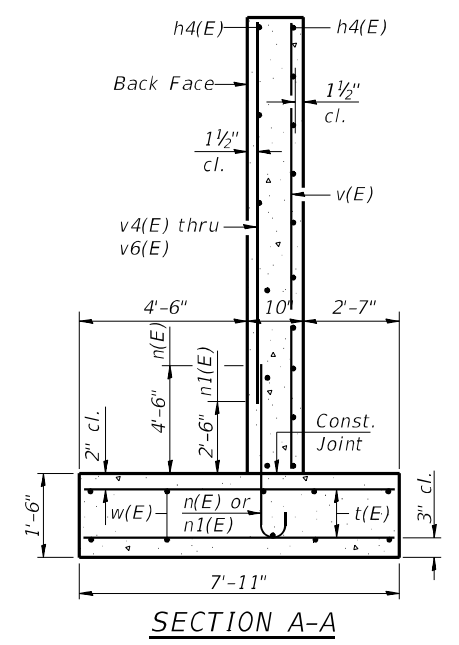


CORNER DETAIL



SHOWING REINFORCEMENT
SHOWING OUTLINES
PLAN

MINIMUM BAR LAP
 #4 Bar = 2'-0"
 #5 Bar = 2'-7"
 #7 Bar = 4'-2"



SECTION A-A

MODEL Default
 FILE Name: P:\dwg\DOT_DIST\DOTB 194-035 var PH-LI 3120032\VO 9 Combine Clear Creek and CC Trib 3120032-09\CAD_Sheets\0782012-68666-007-Culvert Plan.dgn
 The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 123 North 15th Street
 Mattoon, IL 61938
 Phone: 217-253-3177
 License No. 184-003401
 Email: upchurchgroup@upchurchgroup.com

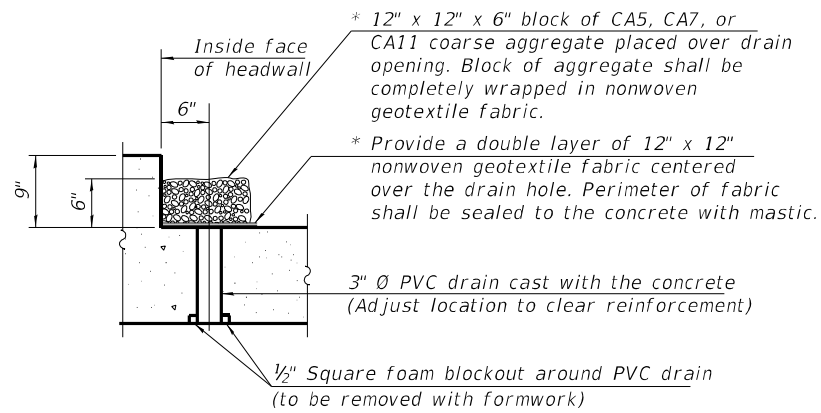
USER NAME = Station 44	DESIGNED - MJS	REVISED -
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISED -
PLOT SCALE = 0:2.0000 "/> <td>CHECKED - MJS</td> <td>REVISED -</td>	CHECKED - MJS	REVISED -
PLOT DATE = 5/9/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT PLAN AND ELEVATION
STRUCTURE NO. 078-2012
 SHEET NO. 7 OF 14 SHEETS

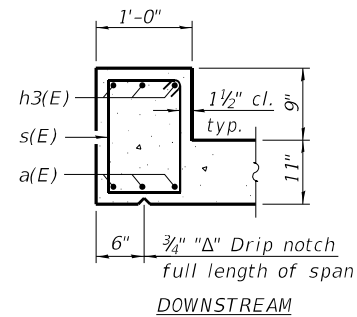
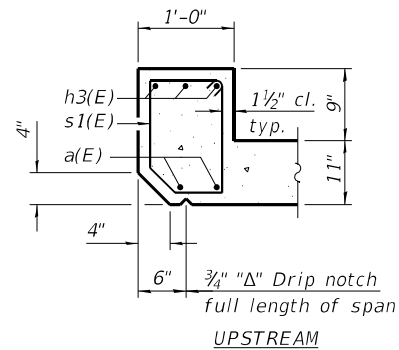
F.A.P. RTE. 698	SECTION (122)BR, BR-1	COUNTY PUTNAM	TOTAL SHEETS 124	SHEET NO. 36
CONTRACT NO. 68666			ILLINOIS FED. AID PROJECT	

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

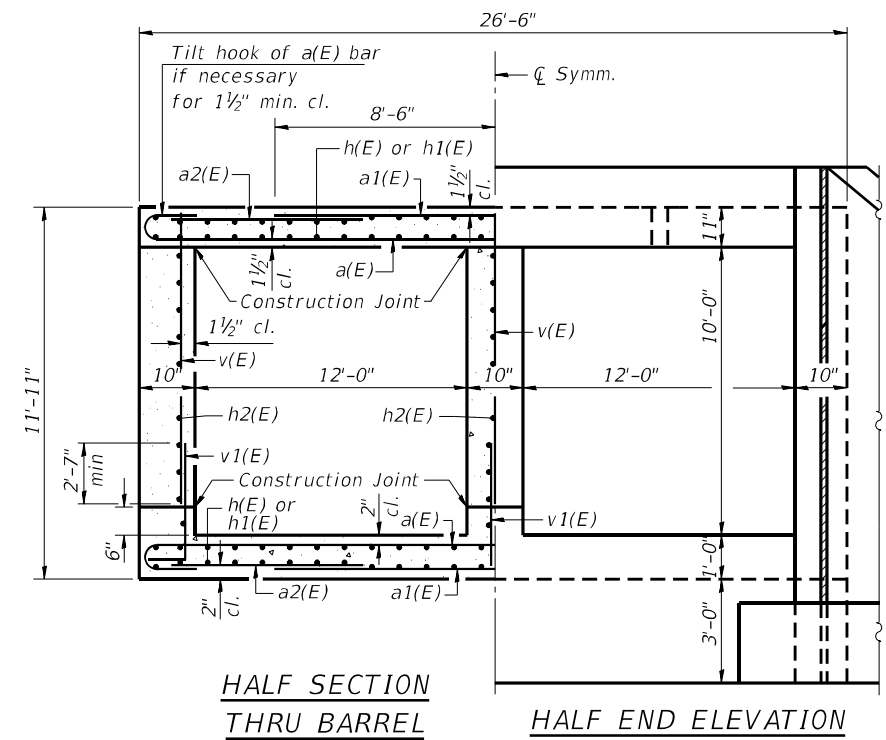


DRAIN DETAIL

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



SECTION THRU HEADWALL

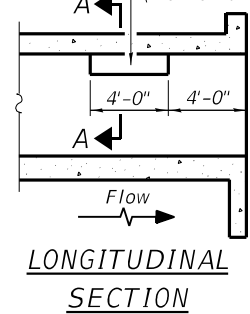


HALF SECTION THRU BARREL

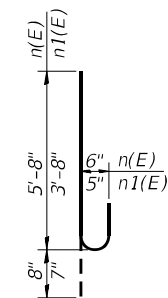
HALF END ELEVATION

Notes:
 The maximum applied service bearing pressure Q_{max} is 1700 lb/sq. ft.
 Reinforcement bars designated (E) shall be epoxy coated.
 Bars indicated thus 10x2-#7 etc. indicates 10 lines of bars with 2 lengths per line.

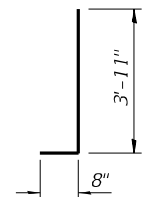
Notch formed by rough finished board attached to and removed with form work, each interior wall. (Do not chamfer).



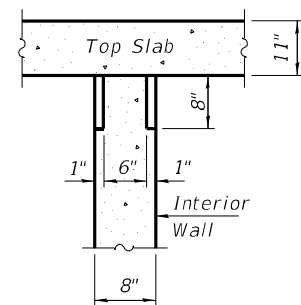
LONGITUDINAL SECTION



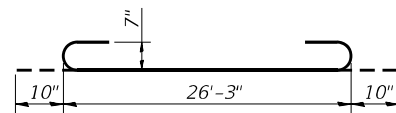
BARS n(E) and n1(E)



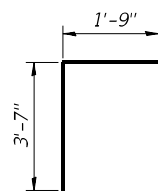
BAR v1(E)



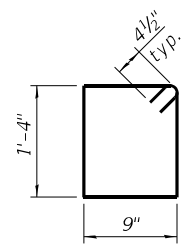
**SECTION A-A
 PHOEBE NESTING
 SITE DETAILS
 (Downstream End Only)**



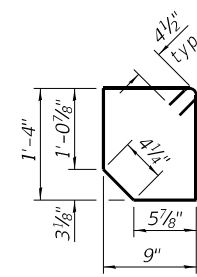
BAR a(E)



BAR d(E)



BAR s(E)



BAR s1(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	276	#7	27'-11"	U
a1(E)	232	#8	17'-0"	—
a2(E)	176	#4	6'-5"	—
d(E)	78	#4	5'-4"	L
h(E)	208	#5	23'-8"	—
h1(E)	208	#5	21'-8"	—
h2(E)	66	#7	24'-6"	—
h3(E)	18	#7	26'-3"	—
h4(E)	84	#4	15'-0"	—
h5(E)	66	#7	22'-6"	—
n(E)	76	#6	6'-4"	U
n1(E)	72	#5	4'-3"	U
s(E)	54	#4	4'-11"	—
s1(E)	27	#4	4'-9"	—
t(E)	132	#5	7'-8"	—
v(E)	621	#4	10'-3"	—
v1(E)	621	#4	4'-7"	—
v2(E)	8	#4	11'-0"	—
v3(E)	8	#4	6'-4"	—
v4(E)	24	#5	7'-0"	—
v5(E)	24	#5	8'-10"	—
v6(E)	28	#5	10'-10"	—
w(E)	48	#5	14'-11"	—
Concrete Box Culverts		Cu. Yd.		299
Reinforcement Bars, Epoxy Coated		Pound		55370

MODEL Default: The Upchurch Group architects engineers surveyors
 USER NAME: P:\dwg\DOT_DIST\DOTB 194-035 var PH-11 3120032\WO 9 Combine Clear Creek and CC Trib 3120032-09\CAD_Sheets\0782012-68666-008-Culvert Details.dwg
 TUG PROJECT NO. 3120032-09
 PLOT SCALE = 0:2.0000 " = 1/8" in.
 PLOT DATE = 5/9/2022

The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 123 North 15th Street
 Moline, IL 61938
 Phone: 312.253.3177
 License No. 184-003401
 Email: upchurchgroup@upchurchgroup.com

USER NAME = Station 44
 TUG PROJECT NO. 3120032-09
 PLOT SCALE = 0:2.0000 " = 1/8" in.
 PLOT DATE = 5/9/2022

DESIGNED - MJS
 DRAWN - SAE
 CHECKED - MJS
 DATE -

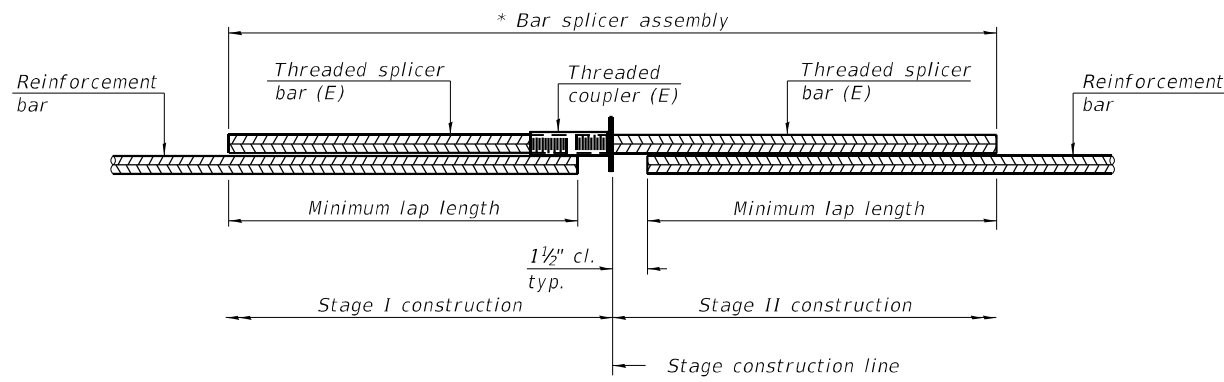
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CULVERT DETAILS
 STRUCTURE NO. 078-2012**

SHEET NO. 8 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	3/
CONTRACT NO. 68666				
ILLINOIS		FED. AID PROJECT		



STANDARD BAR SPLICER ASSEMBLY PLAN
 (All components shall be provided from one supplier)

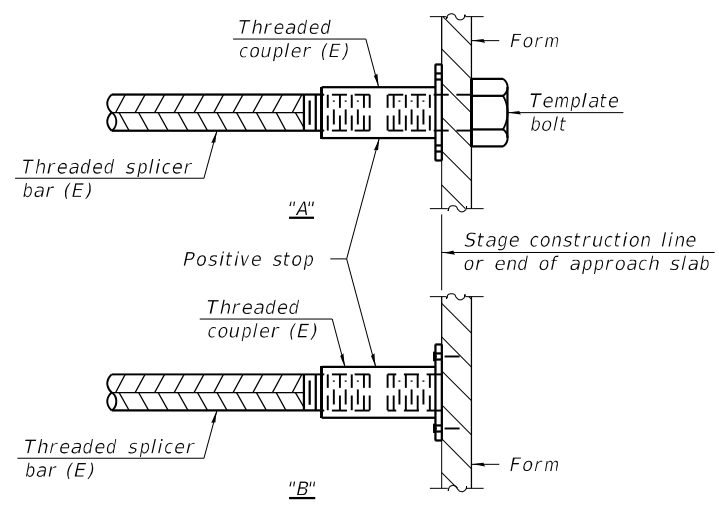
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

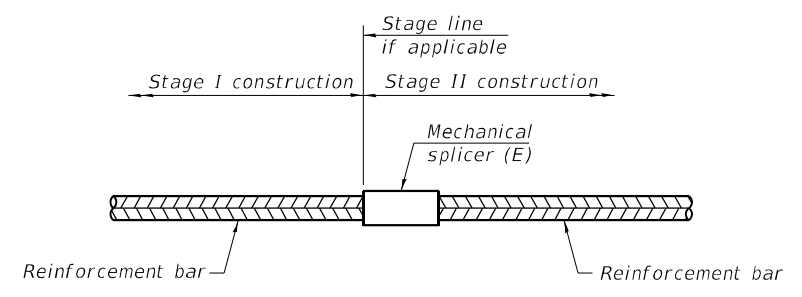
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Bottom Slab	5	52	3
Top Slab	5	52	3
Walls	7	30	3



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.

MODEL: Default
 FILE NAME: P:\proj\1001\DOT_DIST\PTB 194-035 var PH.dwg
 FILE: 3120032\WO 9 Combine C:\bar Cret and CC Tib 3120032-09\CAD_Sheets\072012-68666-009-Br Splicer Assembly.dwg

BSD-1

1-1-2020

The Upchurch Group
 architects engineers surveyors
 122 North 15th Street
 Madison, WI 53703
 Phone: 608.255.3177
 Fax: 608.255.3177
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Station 44	DESIGNED - MJS	REVISED -
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISED -
PLOT SCALE = 8,3366' / in.	CHECKED - MJS	REVISED -
PLOT DATE = 5/9/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 078-2012

SHEET NO. 9 OF 14 SHEETS

F.A.P. RTE. 698	SECTION (122)BR, BR-1	COUNTY PUTNAM	TOTAL SHEETS 124	SHEET NO. 38
CONTRACT NO. 68666			ILLINOIS FED. AID PROJECT	



Illinois Department of Transportation

Division of Highways
American GeoEngineering, Inc

SOIL BORING LOG

Page 1 of 2

Date 4/6/11

ROUTE Clear Creek Tributary DESCRIPTION P94-009-09 Structure over Clear Creek Tributary LOGGED BY D.P.

SECTION (122)BR-1 LOCATION 2.8 Mile North of IL Route 18

COUNTY Putnam DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. Prop. 078-2012, Exis. 078-0024
Station IL-89

BORING NO. B-2
Station 420+37
Offset 72.00ft RT
Ground Surface Elev. 648.35 ft

DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)
------------	-------------	-----------	-----------

DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)	DESCRIPTION
647.10	2			BLACK TOPSOIL with grass roots & vegetation
	4	27.0		LOOSE black CLAY TOPSOIL
645.85	6			
	2			SOFT brown CLAY FILL trace roots damp
	4	18.0		
	4			
	2			
	1	25.0		
640.85	2			VERY STIFF to HARD brown CLAY damp
	2			
	6	7.2	15.0	
	9	B		
	-10			
	3			
	5	3.5	13.0	
	6	B		
	4			
	5	3.8	12.0	
633.35	7	B		VERY STIFF to HARD brown SILTY CLAY LOAM with gravel
	4			
	11	2.4	10.0	
	9	B		
	3			
	4	2.2	13.0	
628.35	5	B		
	-20			

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

BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation

Division of Highways
American GeoEngineering, Inc

SOIL BORING LOG

Page 2 of 2

Date 4/6/11

ROUTE Clear Creek Tributary DESCRIPTION P94-009-09 Structure over Clear Creek Tributary LOGGED BY D.P.

SECTION (122)BR-1 LOCATION 2.8 Mile North of IL Route 18

COUNTY Putnam DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. Prop. 078-2012, Exis. 078-0024
Station IL-89

BORING NO. B-2
Station 420+37
Offset 72.00ft RT
Ground Surface Elev. 648.35 ft

DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)
------------	-------------	-----------	-----------

DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)	DESCRIPTION
	7			DENSE/HARD brown SANDY CLAY LOAM trace gravel
	22	9.0		
	32			
	13			
	25	10.0		
	18			
	-25			
	10			
	13	9.0		
	17			
	12			
	15			
	23			
	13			
	31			
	39			
	20			
	51			
	50/5"			
	-35			
	20			
	54/5"			
	-40			

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

BBS, from 137 (Rev. 8-99)

MODEL Default: \\dot-dist\pfb\104-035 var PH-IL-3120032\WO 9 Combine Clear Creek and CC Trib 3120032-09\CAD_Sheets\0782012-68666-011-Soil Boring B-2.dgn

The Upchurch Group
architects engineers surveyors
123 North 15th Street
Maitland, IL 61938
Phone: 217-233-3177
License No. 184603401
Email: upchurchgroup@upchurchgroup.com

USER NAME = Station 44	DESIGNED - MJS	REVISED -
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISED -
PLOT SCALE = 0.1667' / in.	CHECKED - MJS	REVISED -
PLOT DATE = 5/9/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING B-2
STRUCTURE NO. 078-2012

SHEET NO. 11 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	40
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				



Illinois Department of Transportation

Division of Highways
American GeoEngineering, Inc.

SOIL BORING LOG

Date 4/5/11

ROUTE Clear Creek Tributary DESCRIPTION P94-009-09 Structure over Clear Creek Tributary LOGGED BY D.P.

SECTION (122)BR-1 LOCATION 2.8 Mile North of IL Route 18

COUNTY Putnam DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. Prop. 078-2012, Exis. 078-0024
Station IL-89

BORING NO. B-3
Station 420+37
Offset 15.00ft RT
Ground Surface Elev. 652.80 ft

DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOISTURE (%)
652.30				6" COARSE AGGREGATE				
651.70				brown CLAY & GRAVEL FILL				
	1			SOFT brown CLAY FILL damp	6			
	2	26.0			4	2.4	12.0	
	3				6	B		
	1				4			
	3	25.0			4	3.9	12.0	
647.80	2			MEDIUM STIFF to STIFF brown SILTY CLAY damp	5	B		
	2				8			
	3	1.8	26.0		18	4.5	10.0	
	3	B			21	P		
	2				8			
	2	1.0	18.0		18	3.0	13.0	
642.80	3	S		LOOSE brown SILTY LOAM moist	20	S		
	2							
	2	26.0						
	2							
	4	14.0			8			
637.80	5			HARD gray SANDY LOAM, little clay, damp	17	4.6	12.0	
	5				9	B		
	3							
	3	1.2	13.0					
	4	B		MEDIUM DENSE to DENSE to VERY DENSE gray medium SAND with GRAVEL				
	4				23			
	6	1.5	14.0		55/4"			
632.80	7	P						

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

BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation

Division of Highways
American GeoEngineering, Inc.

SOIL BORING LOG

Date 4/5/11

ROUTE Clear Creek Tributary DESCRIPTION P94-009-09 Structure over Clear Creek Tributary LOGGED BY D.P.

SECTION (122)BR-1 LOCATION 2.8 Mile North of IL Route 18

COUNTY Putnam DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. Prop. 078-2012, Exis. 078-0024
Station IL-89

BORING NO. B-3
Station 420+37
Offset 15.00ft RT
Ground Surface Elev. 652.80 ft

DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOISTURE (%)
652.30				6" COARSE AGGREGATE				
651.70				brown CLAY & GRAVEL FILL				
	1			SOFT brown CLAY FILL damp	6			
	2	26.0			4	2.4	12.0	
	3				6	B		
	1				4			
	3	25.0			4	3.9	12.0	
647.80	2			MEDIUM STIFF to STIFF brown SILTY CLAY damp	5	B		
	2				8			
	3	1.8	26.0		18	4.5	10.0	
	3	B			21	P		
	2				8			
	2	1.0	18.0		18	3.0	13.0	
642.80	3	S		LOOSE brown SILTY LOAM moist	20	S		
	2							
	2	26.0						
	2							
	4	14.0			8			
637.80	5			HARD gray SANDY LOAM, little clay, damp	17	4.6	12.0	
	5				9	B		
	3							
	3	1.2	13.0					
	4	B		MEDIUM DENSE to DENSE to VERY DENSE gray medium SAND with GRAVEL				
	4				23			
	6	1.5	14.0		55/4"			
632.80	7	P						

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

BBS, from 137 (Rev. 8-99)

MODEL Default: \\dot-dist\pfb\104-035 var PH-IL-3120032\WO 9 Combine Clear Creek and CC Trib 3120032-09\CAD_Sheets\0782012-68666-012-Soil Boring B-3.dgn

The Upchurch Group
architects engineers surveyors
123 North 15th Street
Maitland, IL 61938
Phone: 217-233-3177
License No. 184-003401
Email: upchurchgroup@upchurchgroup.com

USER NAME = Station 44	DESIGNED - MJS	REVISED -
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISED -
PLOT SCALE = 0.1667' / in.	CHECKED - MJS	REVISED -
PLOT DATE = 5/9/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING B-3
STRUCTURE NO. 078-2012

SHEET NO. 12 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	41
CONTRACT NO. 68666				

ILLINOIS FED. AID PROJECT

No existing structure:
 B.M. #55 Sp. & W. in Cross
 Fence Post. 85' Lt. Sta.
 49+10. Elev. 155.94

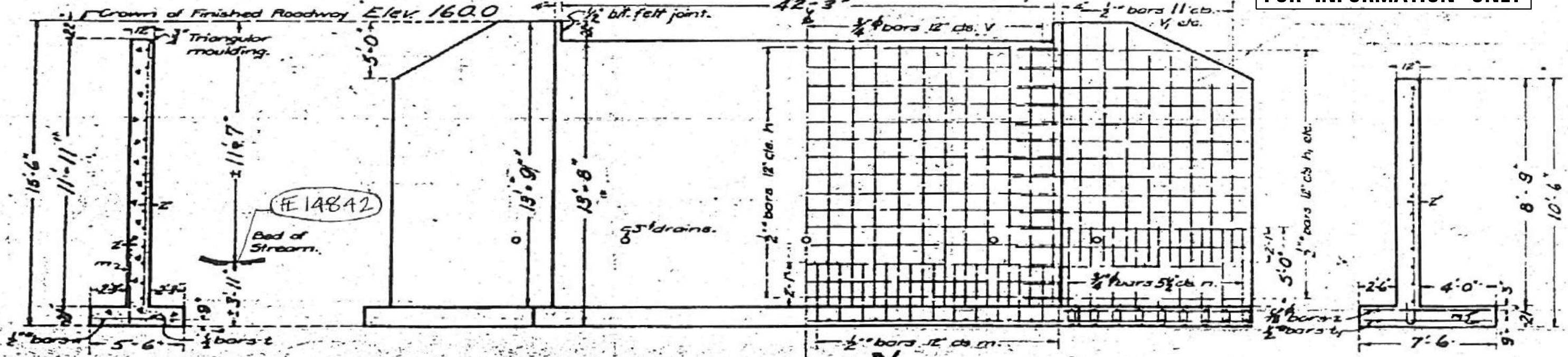
STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BUILDING
 DIVISION OF HIGHWAYS

BOND ISSUE ROUTE NO.	COUNTY	SEC.	TOTAL SHEETS	SHEET NO.
89	Putnam	122-B	35	31

Sheet #2
 2 Sheets.

R.C. ABUTMENTS FOR SLAB BRIDGE
 HEIGHT OVER ALL 16 FEET

FOR INFORMATION ONLY



SECTION OF ABUTMENT

SHOWING OUTLINES

ELEVATION

SHOWING REINFORCEMENT

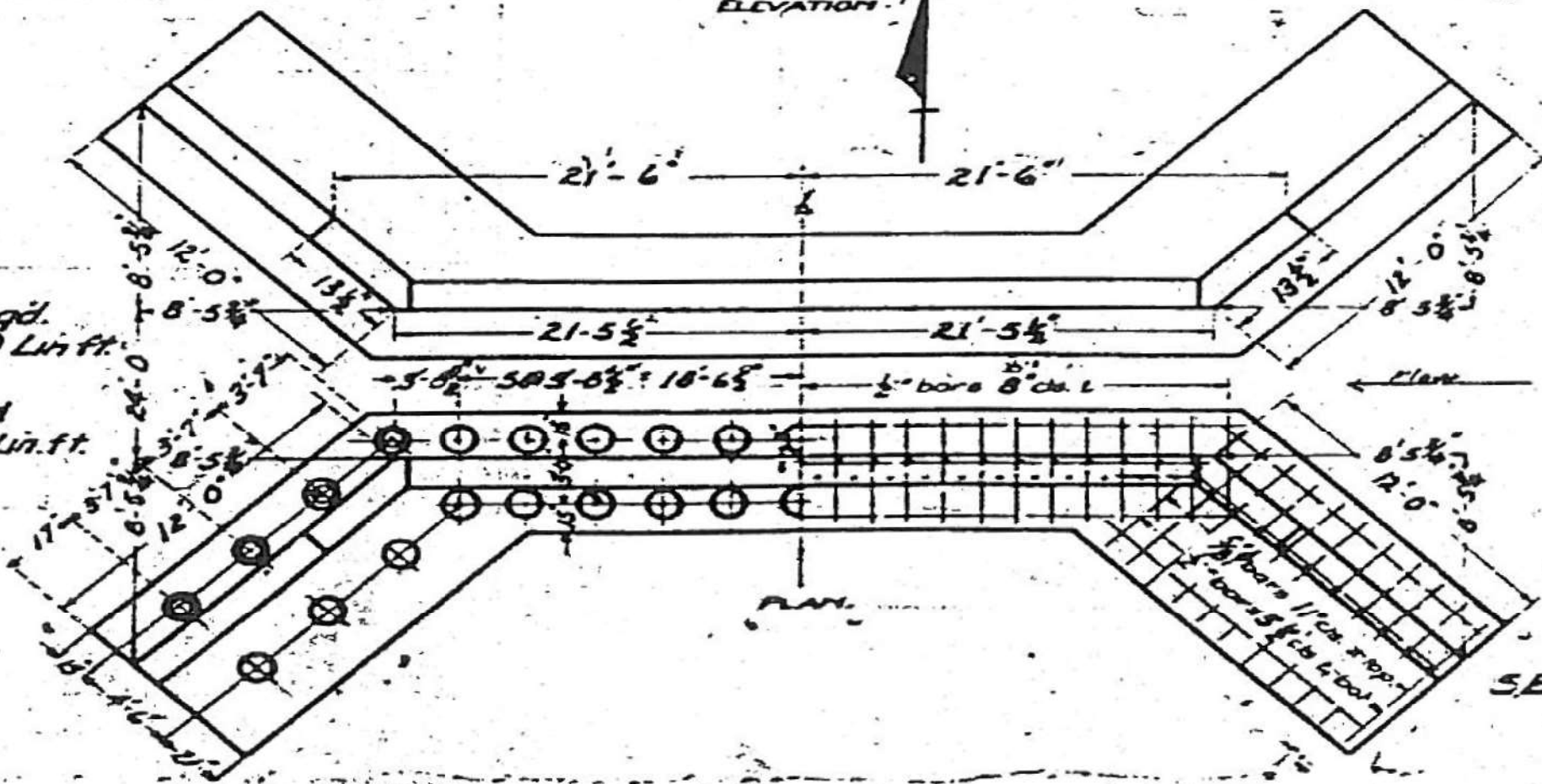
END OF WING

Class A concrete shall be used throughout
 Proportions: 2-4
 All reinforcing steel shall be securely wired in place before concrete is poured.

- 10T Untreated Piles
 10' butt 8' tip 56 reqd.
 Estimated leng. 840 Lin. ft.
- 12T Untreated piles
 12' butt 10' tip 16 reqd.
 Estimated leng. 320 Lin. ft.

DESIGNED	HPD/JLH
DRAWN	ED/Lancy
CHECKED	FAZ
APPROVED	HPD
DATE	5/9/2022

Jan 14 28
 J. K. Sanchez
 M. J. Sanchez
 Frank T. Hest



BILL OF MATERIAL.

Bars	No	Size	Length
V	86	3/4"	11'-8"
VI	8	1/2"	10'-6"
VII	12	1/2"	9'-0"
VIII	16	5/8"	7'-6"
IX	16	1/2"	6'-0"
X	48	1/2"	22'-6"
XI	36	1/2"	13'-0"
XII	8	1/2"	9'-6"
XIII	4	1/2"	6'-0"
XIV	104	3/4"	8'-0"
XV	128	1/2"	5'-3"
XVI	112	1/2"	7'-3"
XVII	52	3/4"	7'-3"
XVIII	8	1/2"	24'-0"
XIX	16	1/2"	12'-6"
XX	86	1/2"	3'-0"

Reinforcing Steel lbs 6730
 Concrete Cu Yds. 110.8

SBI ROUTE 89 SEC 122-B
 PUTNAM COUNTY
 STA 420+57

981

The Upchurch Group
 architects engineers surveyors
 123 North 15th Street
 Mankato, IL 61308
 Phone: 312.253.3177
 License No. 184605301
 Email: upchurchgroup@upchurchgroup.com

USER NAME = Station 44
 TUG PROJECT NO. 3120032-09
 PLOT SCALE = 0.1667' / in.
 PLOT DATE = 5/9/2022

DESIGNED - MJS
 DRAWN - SAE
 CHECKED - MJS
 DATE

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE - ABUTMENTS
 STRUCTURE NO. 078-2012

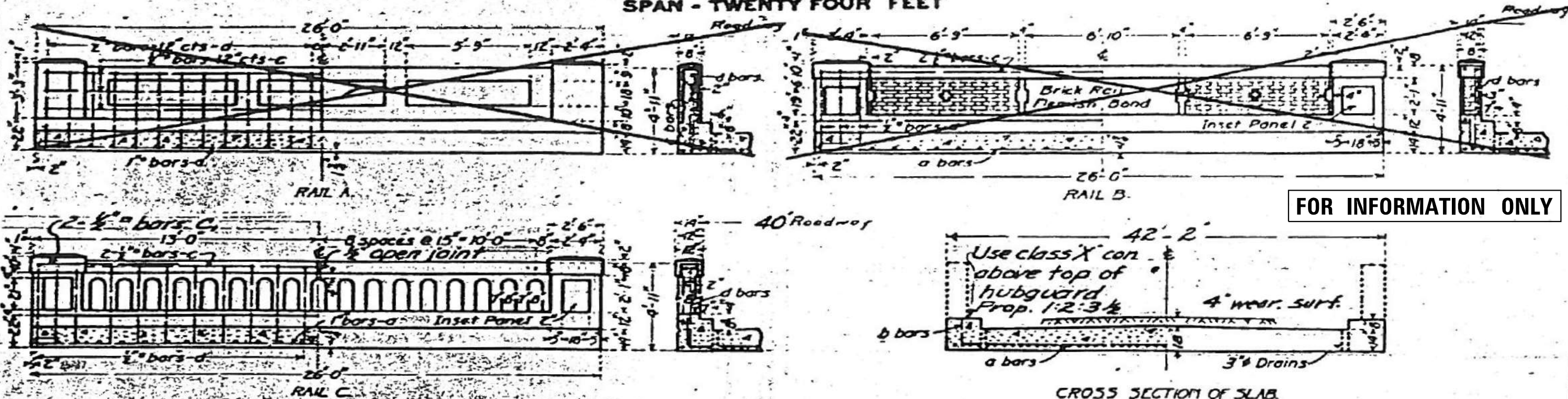
SHEET NO. 13 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	42
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				

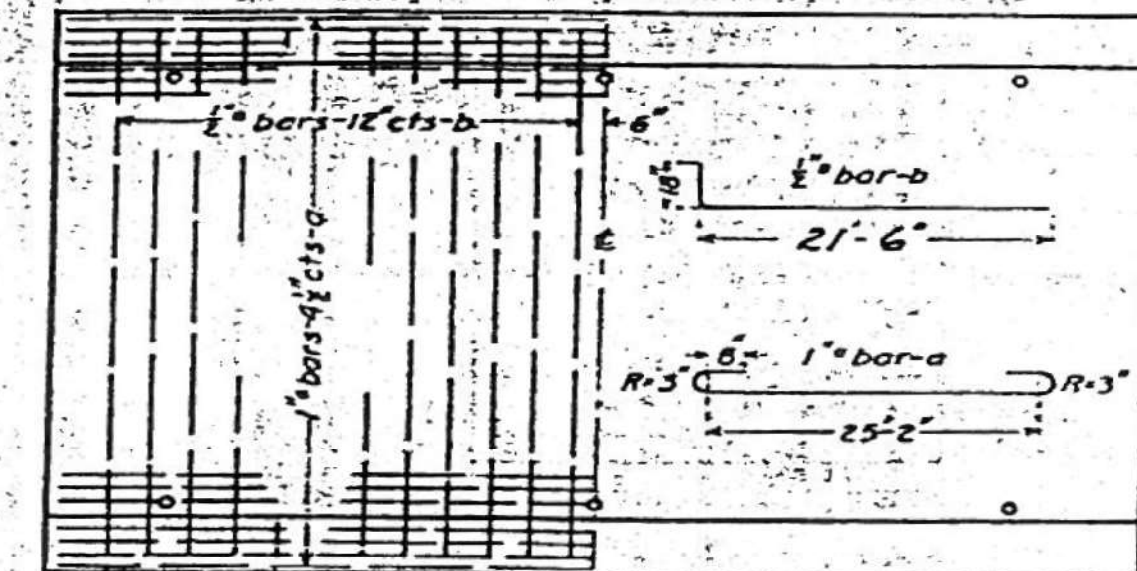
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
**REINFORCED CONCRETE SLAB
SPAN - TWENTY FOUR FEET**

ROAD ISSUE NO.	COUNTY	SEC.	TOTAL SHEETS	SHEET NO.
89	Putnam	122B	35B	31

Sheet No 1
of 3 Sheets



FOR INFORMATION ONLY



BILL OF MATERIAL

	16 FT. ROADWAY	18 FT. ROADWAY	20 FT. ROADWAY	24 FT. ROADWAY	40 FT. ROADWAY
RAIL A	a 40 1" 28'-0"	a 23 1" 28'-0"	a 28 1" 28'-0"	a 69 1" 28'-0"	a 85 1" 28'-0"
	b 24 1/2" 20'-0"	b 24 1/2" 22'-0"	b 24 1/2" 24'-0"	b 24 1/2" 28'-0"	b 48 1/2" 18'-0"
	c 4 1/2" 25'-6"	c 4 1/2" 25'-6"	c 4 1/2" 25'-6"	c 4 1/2" 25'-6"	c 4 1/2" 25'-6"
	d 12 1/2" 4'-6"	d 12 1/2" 4'-6"	d 12 1/2" 4'-6"	d 12 1/2" 4'-6"	d 12 1/2" 4'-6"
Steel Lbs	5310	5820	6340	7470	9160
Concrete Cu Yds	280	304	323	37.8	45.2
RAIL B	a 48 1" 28'-0"	a 53 1" 28'-0"	a 58 1" 28'-0"	a 69 1" 28'-0"	a 85 1" 28'-0"
	b 24 1/2" 20'-0"	b 24 1/2" 22'-0"	b 24 1/2" 24'-0"	b 24 1/2" 28'-0"	b 48 1/2" 18'-0"
	c 4 1/2" 25'-6"	c 4 1/2" 25'-6"	c 4 1/2" 25'-6"	c 4 1/2" 25'-6"	c 4 1/2" 25'-6"
	d 12 1/2" 4'-6"	d 12 1/2" 4'-6"	d 12 1/2" 4'-6"	d 12 1/2" 4'-6"	d 12 1/2" 4'-6"
Steel Lbs	5110	5630	6150	7270	8960
Concrete Cu Yds	266	291	315	36.9	43.7
Brick Rail Cu Yds	2.0	2.0	2.0	2.0	2.0
RAIL C	a 48 1" 28'-0"	a 53 1" 28'-0"	a 58 1" 28'-0"	a 69 1" 28'-0"	a 85 1" 28'-0"
	b 24 1/2" 20'-0"	b 24 1/2" 22'-0"	b 24 1/2" 24'-0"	b 24 1/2" 28'-0"	b 48 1/2" 18'-0"
	c 4 1/2" 25'-6"	c 4 1/2" 25'-6"	c 4 1/2" 25'-6"	c 4 1/2" 25'-6"	c 4 1/2" 25'-6"
	d 12 1/2" 4'-6"	d 12 1/2" 4'-6"	d 12 1/2" 4'-6"	d 12 1/2" 4'-6"	d 12 1/2" 4'-6"
Steel Lbs	5230	5750	6270	7400	11870
Concrete Cu Yds	274	298	323	37.2	45.5

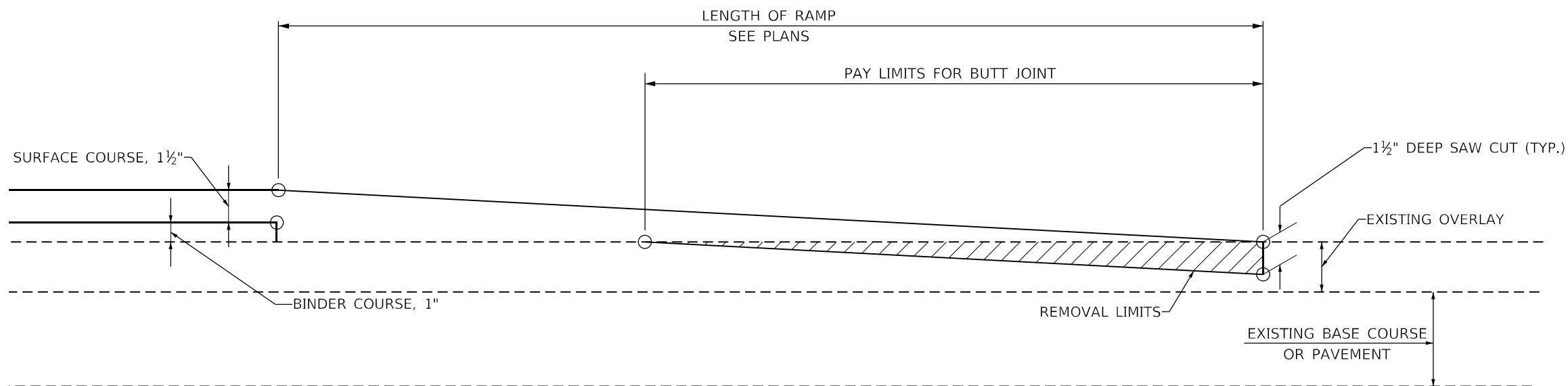
Use class A Concrete below top of hubguard
Proportions - 1:2 1/2:4

USE RAIL C, 40 FT ROADWAY.

DESIGNED	Walter J. Todd
DRAWN	John L. Smith
CHECKED	John L. Smith
APPROVED	John L. Smith

Jan 14, 28
John L. Smith
John L. Smith
John L. Smith

SBI. ROUTE 89 SEC 122B
PUTNAM COUNTY
STA. 420+57



TIE - INTO EXISTING HOT-MIX ASPHALT & TEMPORARY RAMPS



TABLE A
(LENGTHS AND TAPER RATES)

ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
LENGTH OF BUTT JOINT	60' (18.0 M)	30'(9.0 M)
TEMPORARY RAMP TAPER RATE	1:80	1:40
TEMPORARY RAMP LENGTH	10'(3.0 M)	5'(1.5 M)

GENERAL NOTES

1. The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
2. The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
3. The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.05.

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

MODEL: D:\p4\h...
 FILE NAME: P:\C\...
 IDOT_DIST\UTB...
 194-035 var PH...
 3120032\WO...
 9 Combine Clear Creek and CC Trib...
 3120032-09\CAD_Sheets\DA68666\br-1\CH-04_STANDARD05.dgn

The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 License No. 184-003401
 123 North 15th Street
 Maitland, IL 61138
 Phone: 217.255.5177
 Email: upchurchgroup@upchurchgroup.com

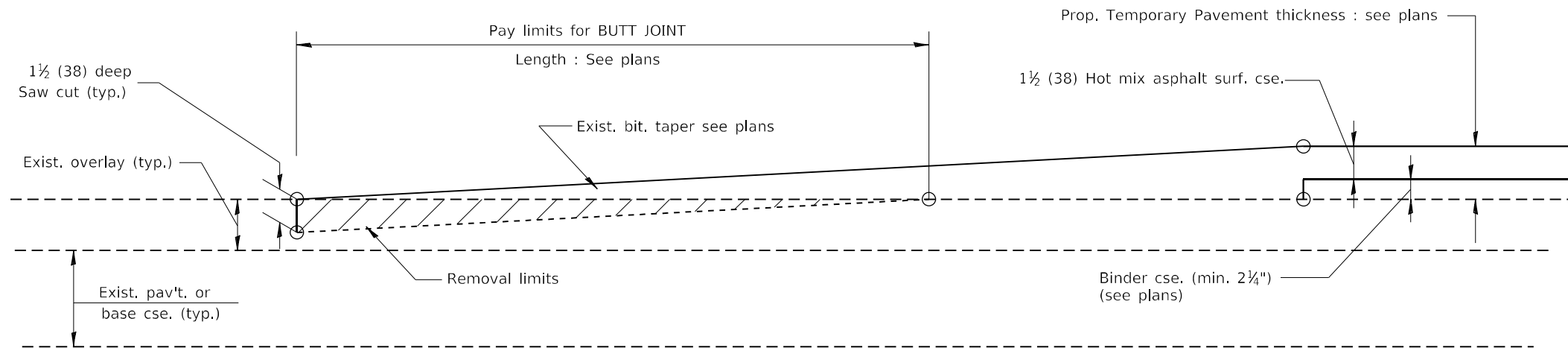
USER NAME = Station 44	DESIGNED - MJS	REVISED -
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISED -
PLOT SCALE = 100:0.0000 " = 1" / in.	CHECKED - MJS	REVISED -
PLOT DATE = 5/9/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINTS
ILLINOIS ROUTE 89 OVER CLEAR CREEK TRIBUTARY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	44
CONTRACT NO. 68666			ILLINOIS FED. AID PROJECT	



NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER

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

MODEL Path: \\... FILE NAME: P:\C:\p\... IDOT_DIST\UTB 194-035 var PH_H 3120032\WO 9 Combine Clear Creek and CC Trib 3120032-09\CAD_Sheets\168666\br-1-CH-04_STANDARD05.dgn

The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 License No. 184-003401
 123 North 15th Street
 Moline, IL 61208
 Phone: 312.255.3177
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Station 44
 TUG PROJECT NO. 3120032-09
 PLOT SCALE = 100:0.0000 " = 1" / in.
 PLOT DATE = 5/9/2022

DESIGNED - MJS
 DRAWN - SAE
 CHECKED - MJS
 DATE -

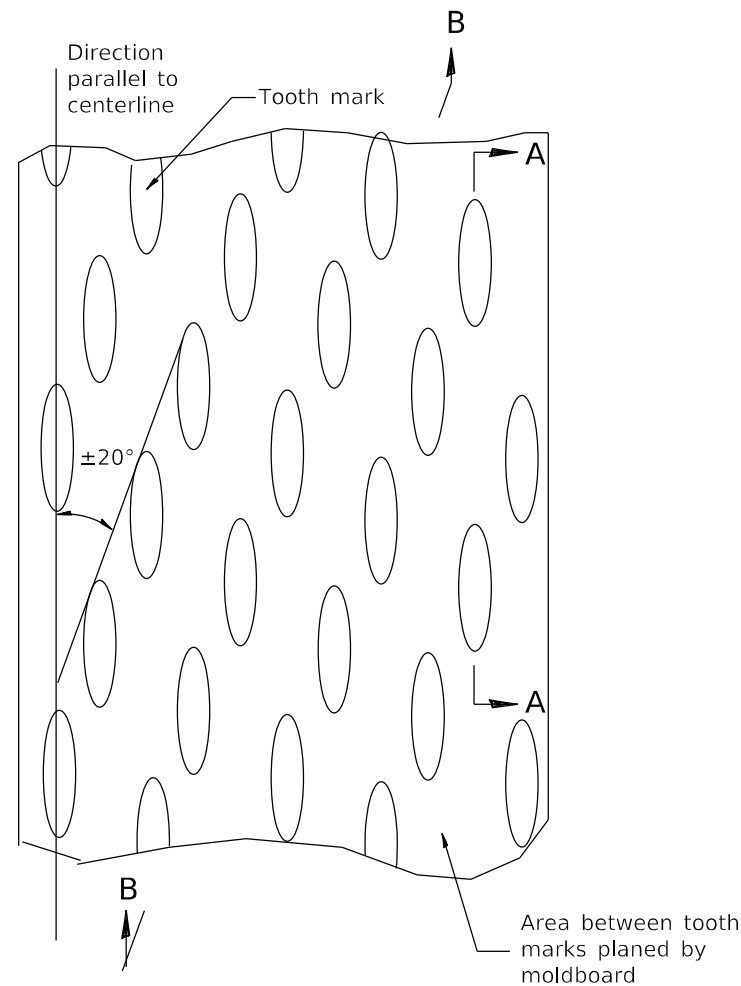
REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINTS
ILLINOIS ROUTE 89 OVER CLEAR CREEK TRIBUTARY

SCALE: SHEET OF SHEETS STA. TO STA.

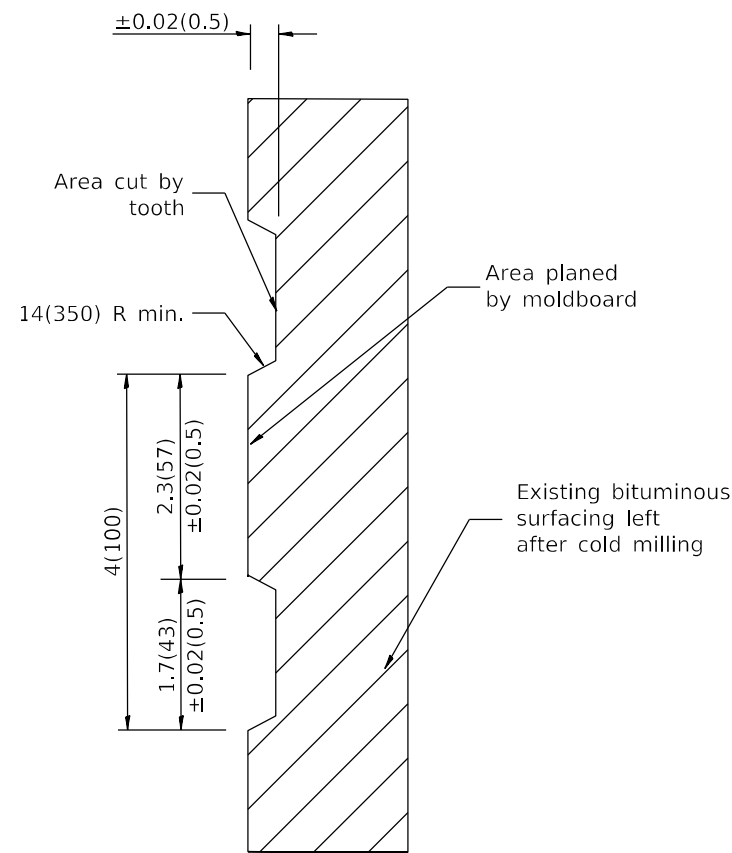
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	45
CONTRACT NO. 68666				
ILLINOIS		FED. AID PROJECT		



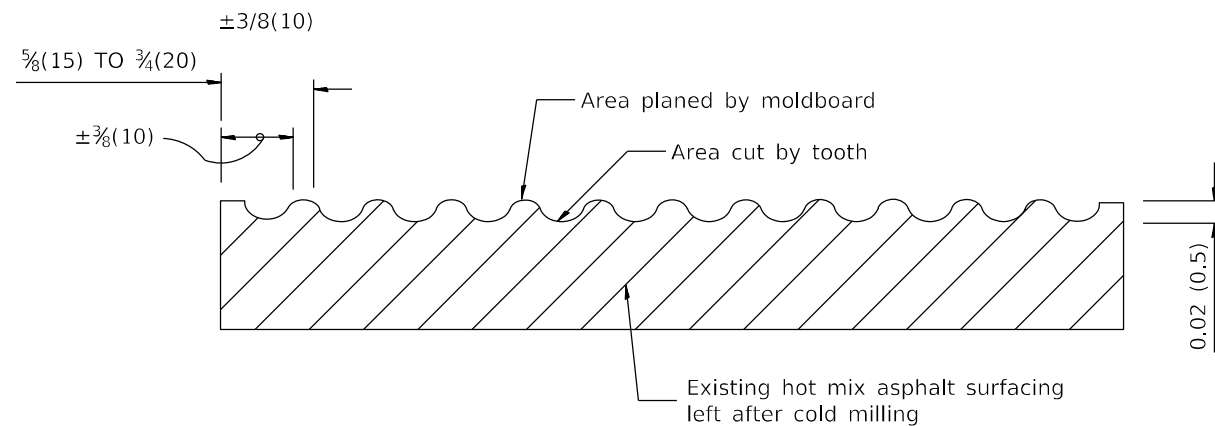
PLAN

General notes:

1. Coldmilling shall consist of two processes: Cutting with carbide teeth mounted on a rotating drum, and planing with a moldboard mounted immediately behind the cutting drum.
2. Other similar patterns will be acceptable if they consist of a smooth, flat, planed surface interspersed with a pattern of discontinuous longitudinal striations.



SECTION A-A



SECTION B-B PROJECTED
PERPENDICULAR TO CENTERLINE

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

MODEL: D:\p\h\11 3120032\W0 9 Combine Clear Creek and CC Trib 3120032-09\CAD_Sheets\168666\168666-11-04_STANDARD05.dgn
 FILE NAME: P:\C\upch\IDOT_DIST\UTTB 194-035 var PH 11 3120032\W0 9 Combine Clear Creek and CC Trib 3120032-09\CAD_Sheets\168666\168666-11-04_STANDARD05.dgn

The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 123 North 15th Street
 Moline, IL 61438
 Phone: 312.255.3177
 License No.: 184-003401
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Station 44
 TUG PROJECT NO. 3120032-09
 PLOT SCALE = 100:0.0000 " = 1" / in.
 PLOT DATE = 5/9/2022

DESIGNED - MJS
 DRAWN - SAE
 CHECKED - MJS
 DATE -

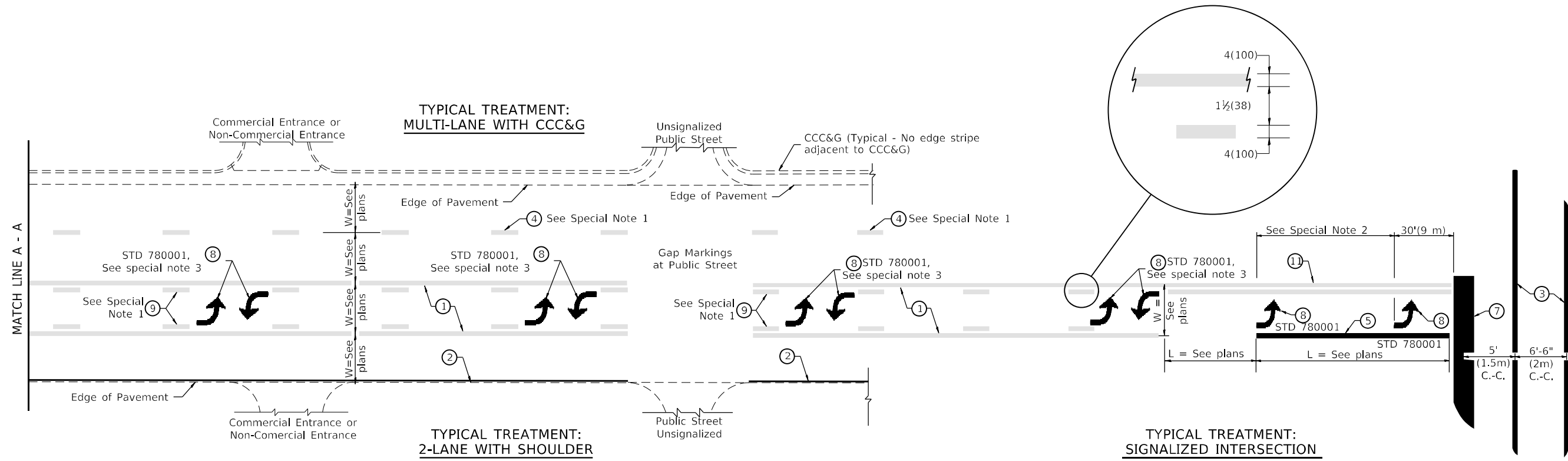
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
 ILLINOIS ROUTE 89 OVER CLEAR CREEK TRIBUTARY**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	46
CONTRACT NO. 68666				
ILLINOIS		FED. AID PROJECT		



FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION

TYPICAL PAVEMENT MARKING LEGEND

(Note: This is a District Standard Legend. Some elements may not apply to specific project.)

- ① 4(100) Solid (Yellow)
- ② 4(100) Solid (White)
- ③ 2-6(150) Crosswalk @ 6'-6" (2m)min C.-C. (White)
2-8(200) Crosswalk @ 6'-6" (2m)min C.-C. (White) (When traffic signals are present.)
- ④ 6(150) Skip-Dash (White) (See Special Note 1)
- ⑤ 8(200) Solid (White)
- ⑥ 12(300) Diagonal (White) (Item ⑥ is shown on Std. 780001)
- ⑦ 24(600) Stop Bar (White)
- ⑧ Letters & Arrows (See Std. 780001 and Special Notes 2 & 3)
- ⑨ 4(100) Skip-Dash (Yellow) (See Special Note 1)
- ⑩ 12(300) Diagonal (Yellow) (See Table A)
- ⑪ 4(100) Double Solid (Yellow) (See Table A)

SPECIAL NOTES

1. Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversely across the pavement.
2. The following shall apply to arrows located in one-way left turn lanes:
 - A. A minimum of two (2) arrows is required.
 - B. The maximum spacing between arrows is 80' (24 m).
 - C. Arrows shall be evenly spaced if three (3) or more are required.
3. The following shall apply to arrow pairs located in two-way left turn lanes:
 - A. A minimum of two (2) arrow pairs is required.
 - B. The maximum spacing between arrow pairs is 200' (61 m).
 - C. Arrow pairs shall be evenly spaced if three (3) or more are required.
 - D. The spacing between Bi Directional Left Turn Arrows is 33' (10 m).

GENERAL NOTES

1. Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
2. See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.

MODEL: D:\p\1\11 3120032\W0 9 Combine Clear Creek and CC Trib 3120032-09\CAD_Sheets\168666\168666-11-04_STANDARD05.dgn

The Upchurch Group
architects engineers surveyors
Professional Design Firm Corporation
123 North 15th Street
Moline, IL 61938
Phone: 312.253.3177
License No. 184-0003401
e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Station 44	DESIGNED - MJS	REVISED -
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISED -
PLOT SCALE = 100:0.0000 " = 1"	CHECKED - MJS	REVISED -
PLOT DATE = 5/9/2022	DATE -	REVISED -

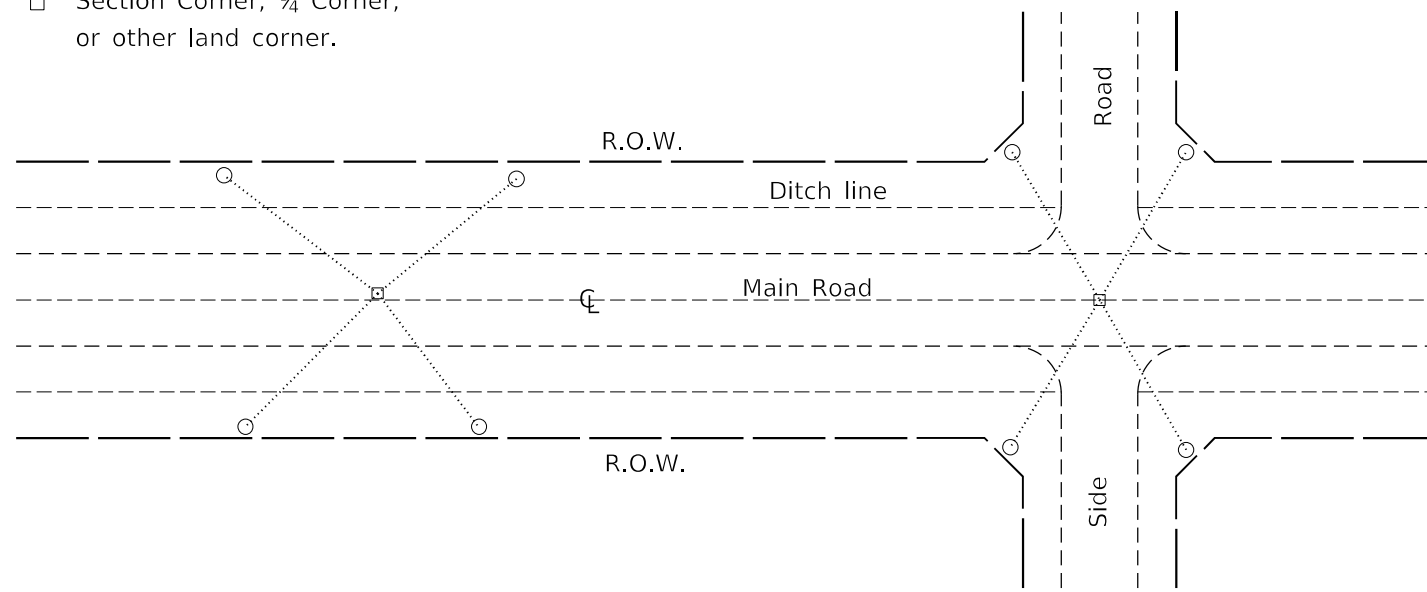
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL PAVEMENT MARKINGS			
ILLINOIS ROUTE 89 OVER CLEAR CREEK TRIBUTARY			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	47
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				

PERMANENT SURVEY TIES

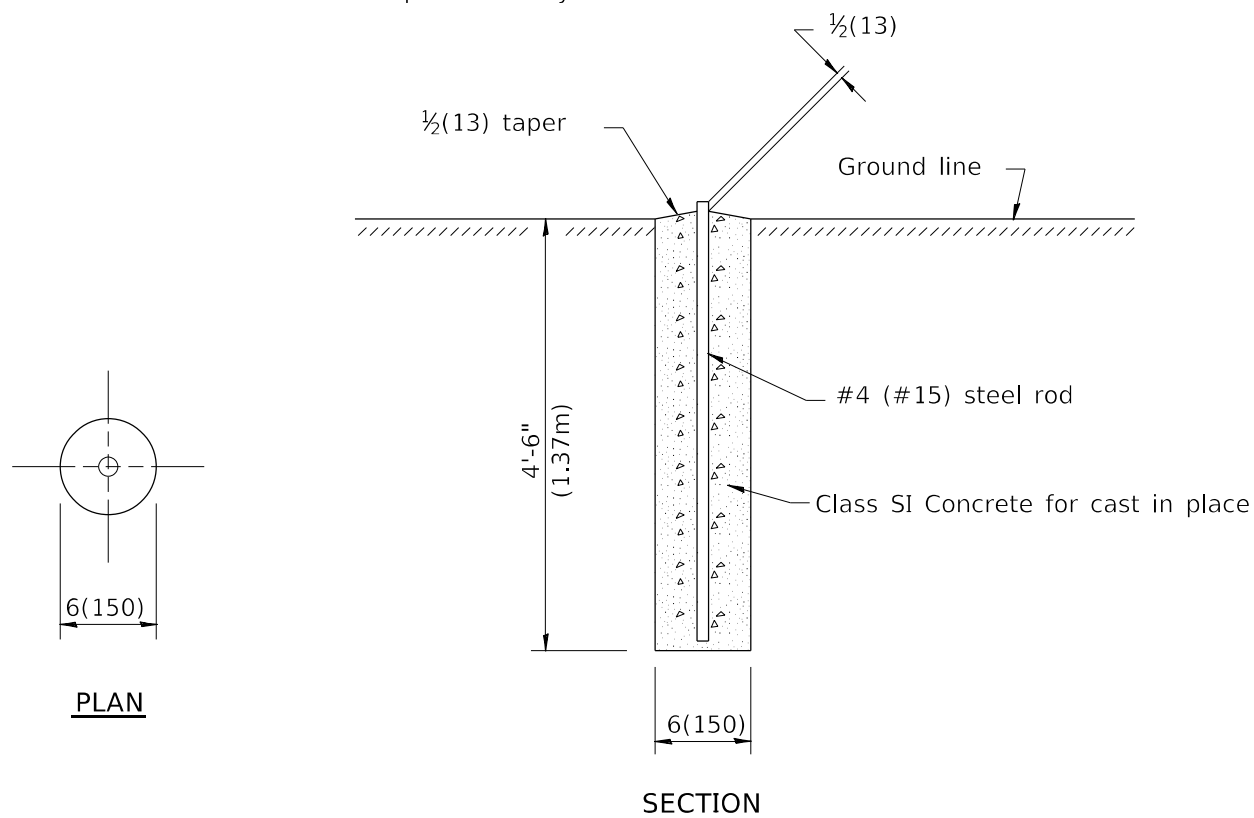
- Permanent Survey Tie
- Section Corner, 1/4 Corner, or other land corner.



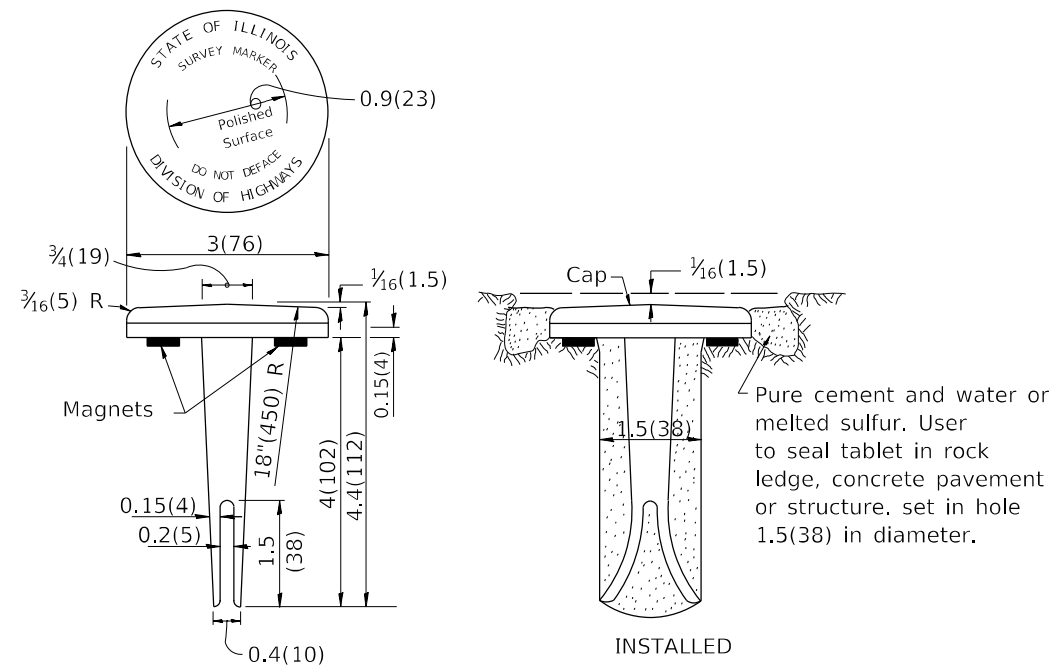
TYPICAL APPLICATION

GENERAL NOTES

1. The marker shall be cast in place of Class SI Concrete.
2. Tie marker shall be installed after the final seeding has been completed unless otherwise specified by the Engineer.
3. The tie distances to the section corner shall be measured and recorded by the surveyor setting the PSM. All ties shall be turned over to the IDOT Chief of Surveys or Chief of Plats for recordation.
4. All documentation shall be performed by a PLS



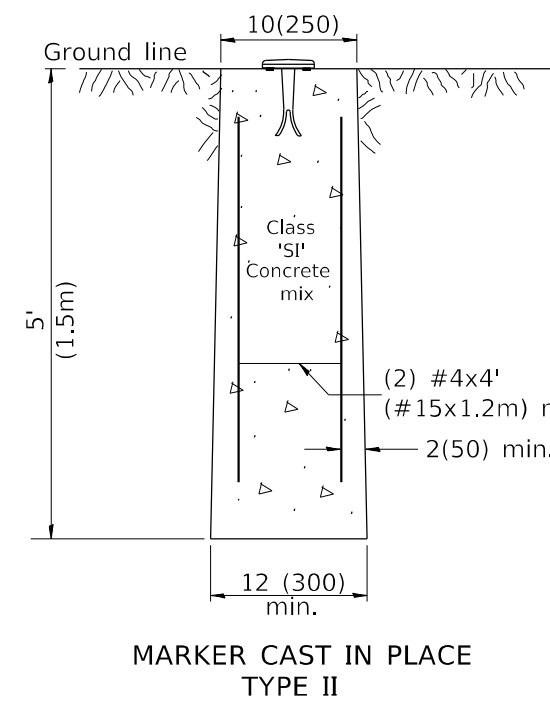
PERMANENT SURVEY MARKERS



TYPE I

GENERAL NOTES

1. All type II markers shall be cast in place, and precast markers will not be allowed.
2. Two permanent magnets, each having a diameter of 3/4 (19) and a thickness of 1/4 (6), or equivalent, shall be attached to the underside of the tablet with an approved epoxy bonding agent.
3. The location of the markers shall be in accordance with the plans in general, the markers will be placed at the P.T.'s, P.C.'s, and P.I.'s located within the R.O.W. of horizontal curves and spaces along the tangents in a way that a minimum of two markers are always inter-visible, and not to exceed 1000' (300m).
4. The markers shall be placed under the direction of the Engineer and shall be installed in a workmanlike manner in order that there will be no further settlement or horizontal shifting. The monuments shall be placed in a way that the survey point will fall within the portion of the plaque provided for that purpose.
5. The project designation, the centerline station, the survey point, and the elevation shall be permanently marked by the use of metal dies after marker has been installed.



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

MODEL: D:\p\h\1 3120032\W0 9 Combine Clear Creek and CC Trib 3120032-09\CAD_Sheets\1468666\rib-sh-04_STANDARD05.dgn
FILE NAME: P:\C\p\1468666\rib-sh-04_STANDARD05.dgn
PROJECT: IDOT DISTRICT 9
DATE: 5/9/2022

The Upchurch Group
architects engineers surveyors
Professional Design Firm Corporation
123 North 15th Street
Moline, IL 61408
Phone: 312.253.3177
License No. 184903401
E-mail: upchurchgroup@upchurchgroup.com

USER NAME = Station 44
TUG PROJECT NO. 3120032-09
PLOT SCALE = 100:0.0000 " = 1' / in.
PLOT DATE = 5/9/2022

DESIGNED - MJS
DRAWN - SAE
CHECKED - MJS
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PERMANENT SURVEY TIE &
PERMANENT SURVEY MARKERS TY.I - TY.II
ILLINOIS ROUTE 89 OVER CLEAR CREEK TRIBUTARY**

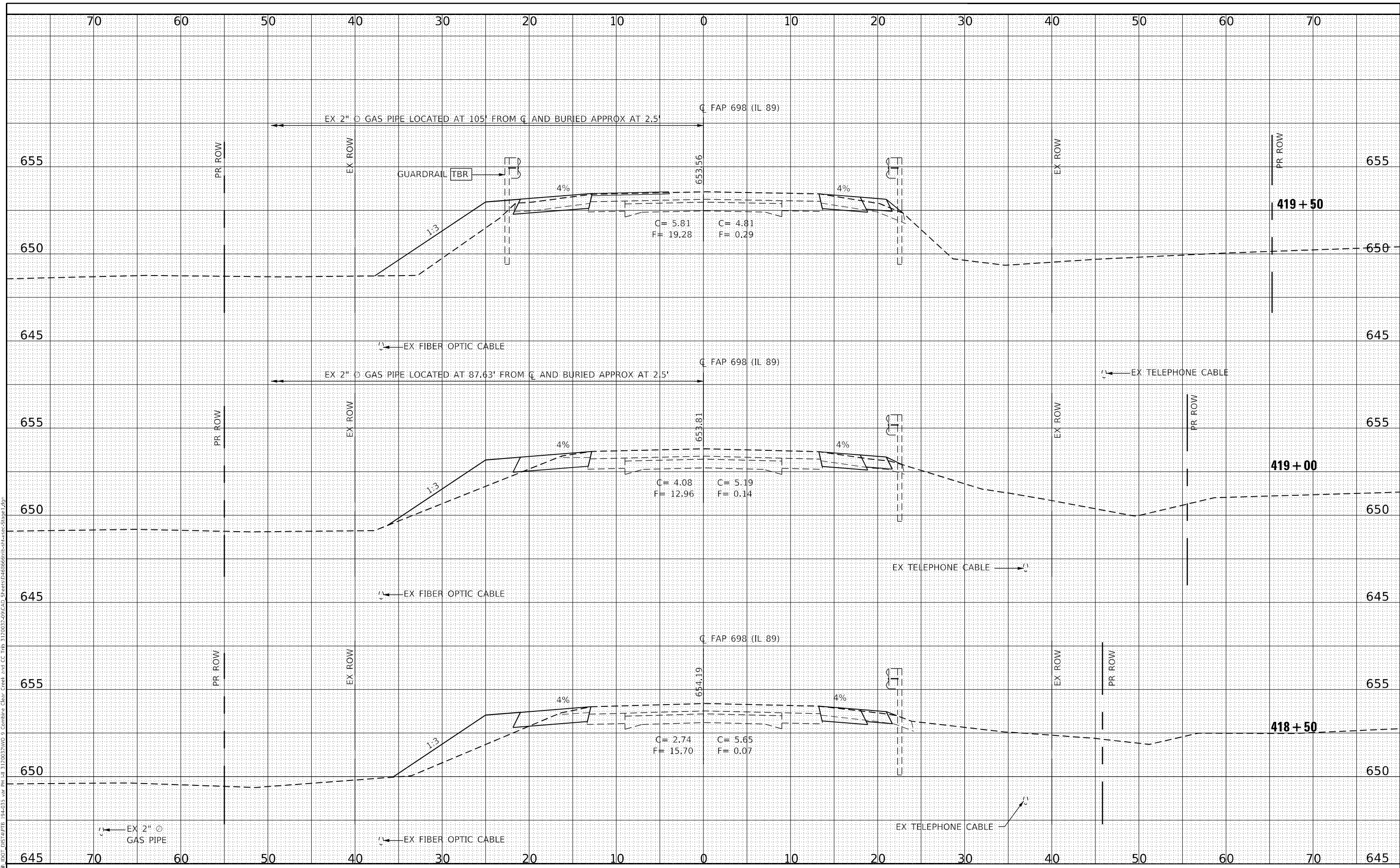
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	49
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Definitive
 FILE NAME: P:\0411\DOT\DOT\104-035\0411-3120032\104-035\0411-3120032-01\CAD_Sheets\0411-3120032-01\Stage1.dgn



The Upchurch Group
 architects engineers surveyors
 Professional Design Firm
 123 North 15th Street
 Maitland, IL 61938
 Phone: 317.258.3177
 License No. 184-003101
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Sta42
 TUG PROJECT NO. 3120032-09
 PLOT SCALE = 10,0000 * / in.
 PLOT DATE = 10/12/2022

DESIGNED - MJS
 DRAWN - SAE
 CHECKED - MJS
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

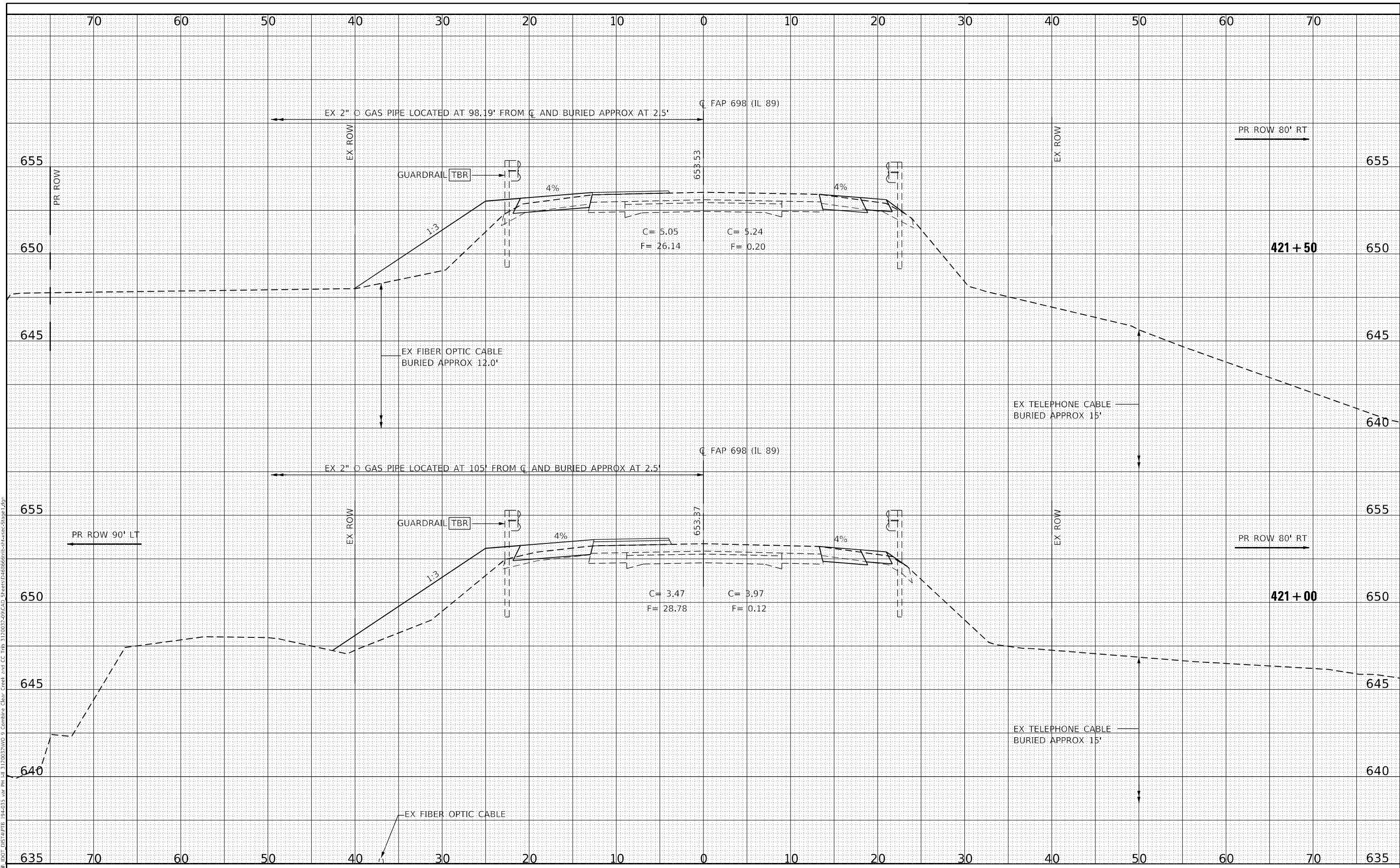
**CROSS SECTIONS - STAGE 1
 ILLINOIS ROUTE 89 OVER CLEAR CREEK TRIBUTARY**
 SCALE: SHEET OF SHEETS STA. 418+50 TO STA. 419+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	51
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Definitive
 FILE NAME: P:\001\DOT_DTS\10118_104-035.dwg
 USER: Stg42
 TUG PROJECT NO: 3120032-09
 PLOT SCALE = 10,0000 "/in.
 PLOT DATE = 10/12/2022



The Upchurch Group
 architects engineers surveyors
 123 North 15th Street
 Moline, IL 61908
 Phone: 317.255.3177
 License No. 184-003101
 e-mail: upchurchgroup@upchurchgroup.com

DESIGNED - MJS	REVISD -
DRAWN - SAE	REVISD -
CHECKED - MJS	REVISD -
DATE -	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

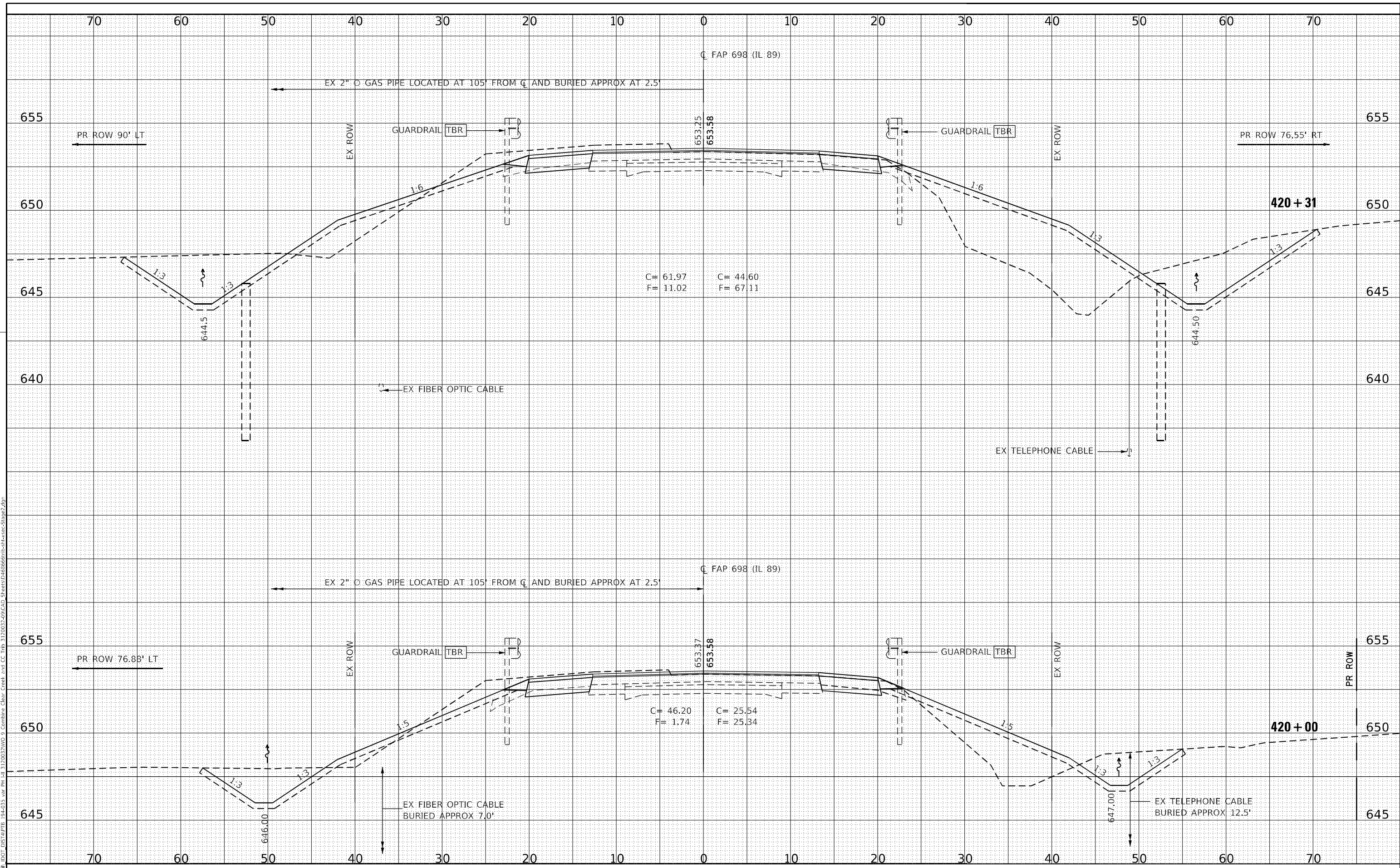
CROSS SECTIONS - STAGE 1
ILLINOIS ROUTE 89 OVER CLEAR CREEK TRIBUTARY
 SCALE: SHEET OF SHEETS STA. 421+00 TO STA. 421+50

F.A.P. RTE. 698	SECTION (122)BR, BR-1	COUNTY PUTNAM	TOTAL SHEETS 124	SHEET NO. 54
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Definitive
 FILE NAME: P:\04\11\DOT_DTS\4107B_104-035.dwg
 I:\3120032\W09\Combine Clear Creek and CC Trib 3120032-09\CAD_Sheets\104-035-01-Stage2.dwg



The Upchurch Group
 architects engineers surveyors
 123 North 15th Street
 Mattoon, IL 61938
 Phone: 317.253.3177
 License No. 184-003101
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Sta42
 TUG PROJECT NO. 3120032-09
 PLOT SCALE = 10,0000 * / in.
 PLOT DATE = 10/12/2022

DESIGNED - MJS
 DRAWN - SAE
 CHECKED - MJS
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

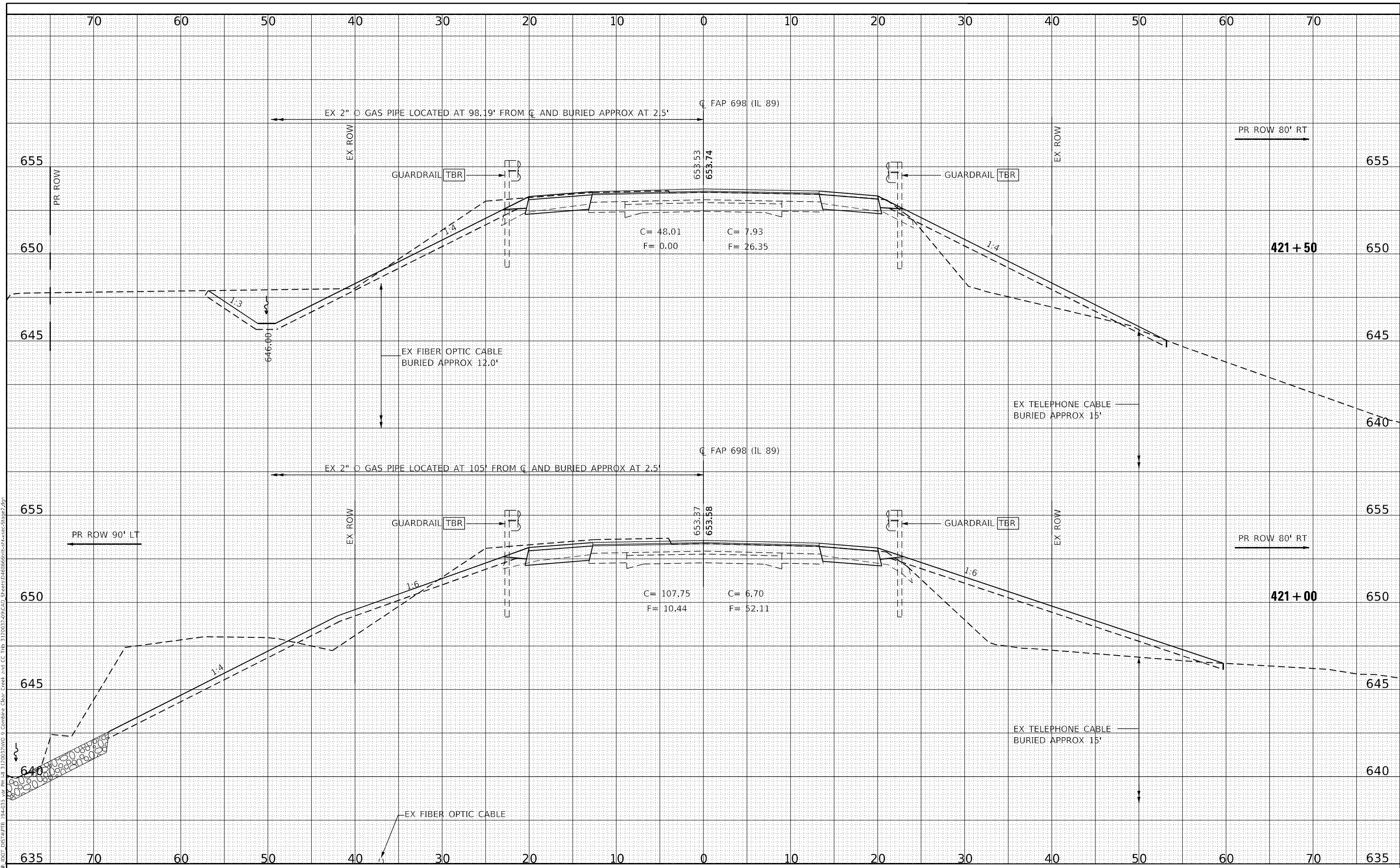
CROSS SECTIONS - STAGE II AND III
ILLINOIS ROUTE 89 OVER CLEAR CREEK TRIBUTARY
 SCALE: SHEET OF SHEETS STA. 420+00 TO STA. 420+31

F.A.P. RTE. 698	SECTION (122)BR, BR-1	COUNTY PUTNAM	TOTAL SHEETS 124	SHEET NO. 60
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default
 FILE NAME: P:\CADD\DOT_DWG\TPB_194-035.dwg
 PLOT DATE: 10/12/2022
 PLOT SCALE: 10.0000 * / in.
 USER NAME: Sta42
 TUG PROJECT NO: 3120032-09
 DESIGNED - MJS
 DRAWN - SAE
 CHECKED - MJS
 DATE -
 REVISED -
 REVISED -
 REVISED -
 REVISED -



The Upchurch Group
 architects engineers surveyors
 123 North 15th Street
 Maitland, IL 61938
 Phone: 317.258.3177
 License No. 184-003101
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME	= Sta42
TUG PROJECT NO.	3120032-09
PLOT SCALE	= 10.0000 * / in.
PLOT DATE	= 10/12/2022
DESIGNED	- MJS
DRAWN	- SAE
CHECKED	- MJS
DATE	-
REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

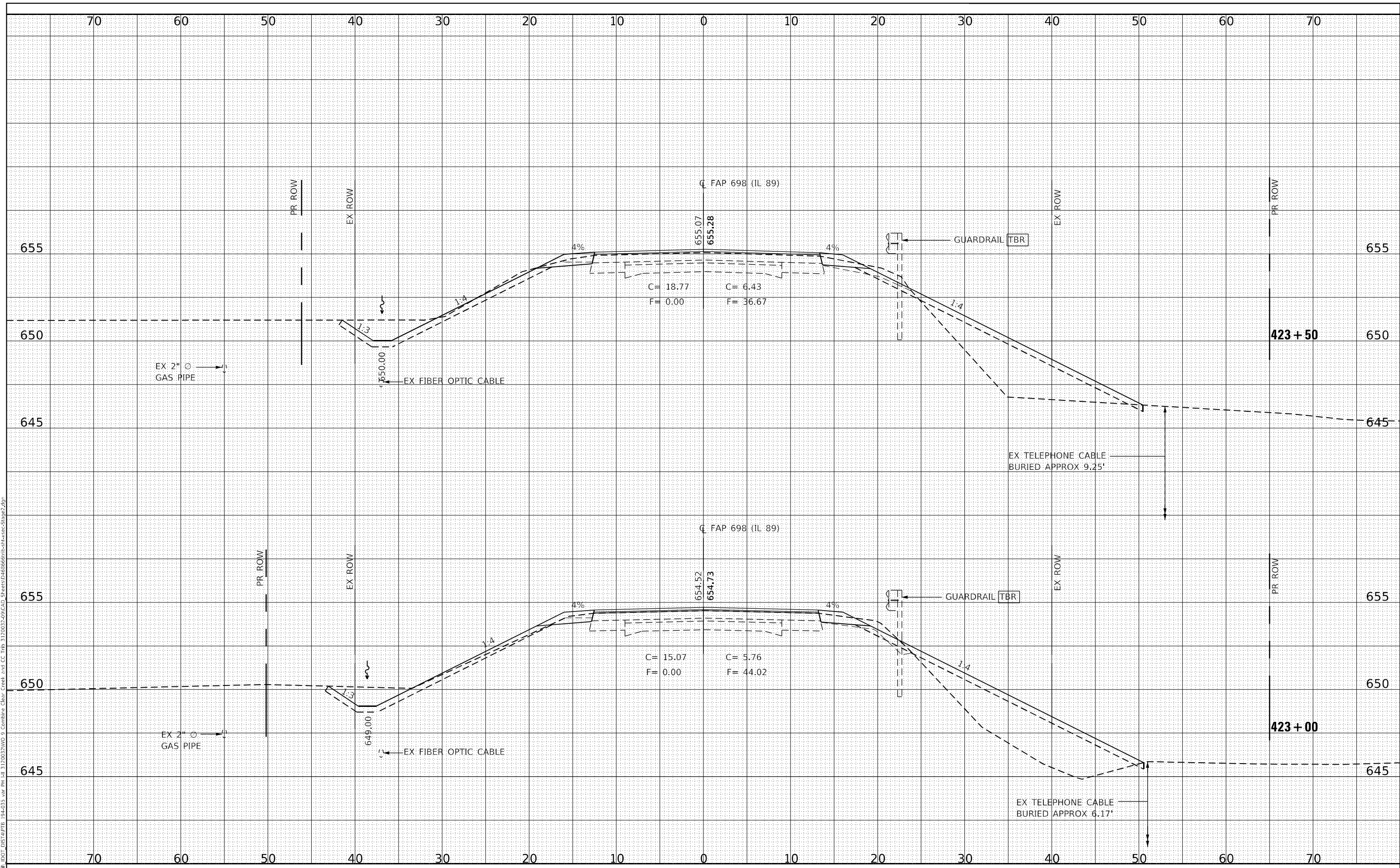
**CROSS SECTIONS - STAGE II AND III
 ILLINOIS ROUTE 89 OVER CLEAR CREEK TRIBUTARY**
 SCALE: SHEET OF SHEETS STA. 421+00 TO STA. 421+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	62
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Definitive
 FILE NAME: P:\CADD\DOT\DOTS\IAPTB 194-035 var PH - ILL 3120032\W09 Combine Clear Creek and CC Trib 3120032-09\CAD_Sheets\Dissemination\Sheet-Stage2.dgn



The Upchurch Group
 architects engineers surveyors
 Professional Design Firm
 123 North 15th Street
 Maitland, IL 61938
 Phone: 317.258.3177
 License No. 184-003101
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Sta42
 TUG PROJECT NO. 3120032-09
 PLOT SCALE = 10,0000 * / in.
 PLOT DATE = 10/12/2022

DESIGNED - MJS
 DRAWN - SAE
 CHECKED - MJS
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

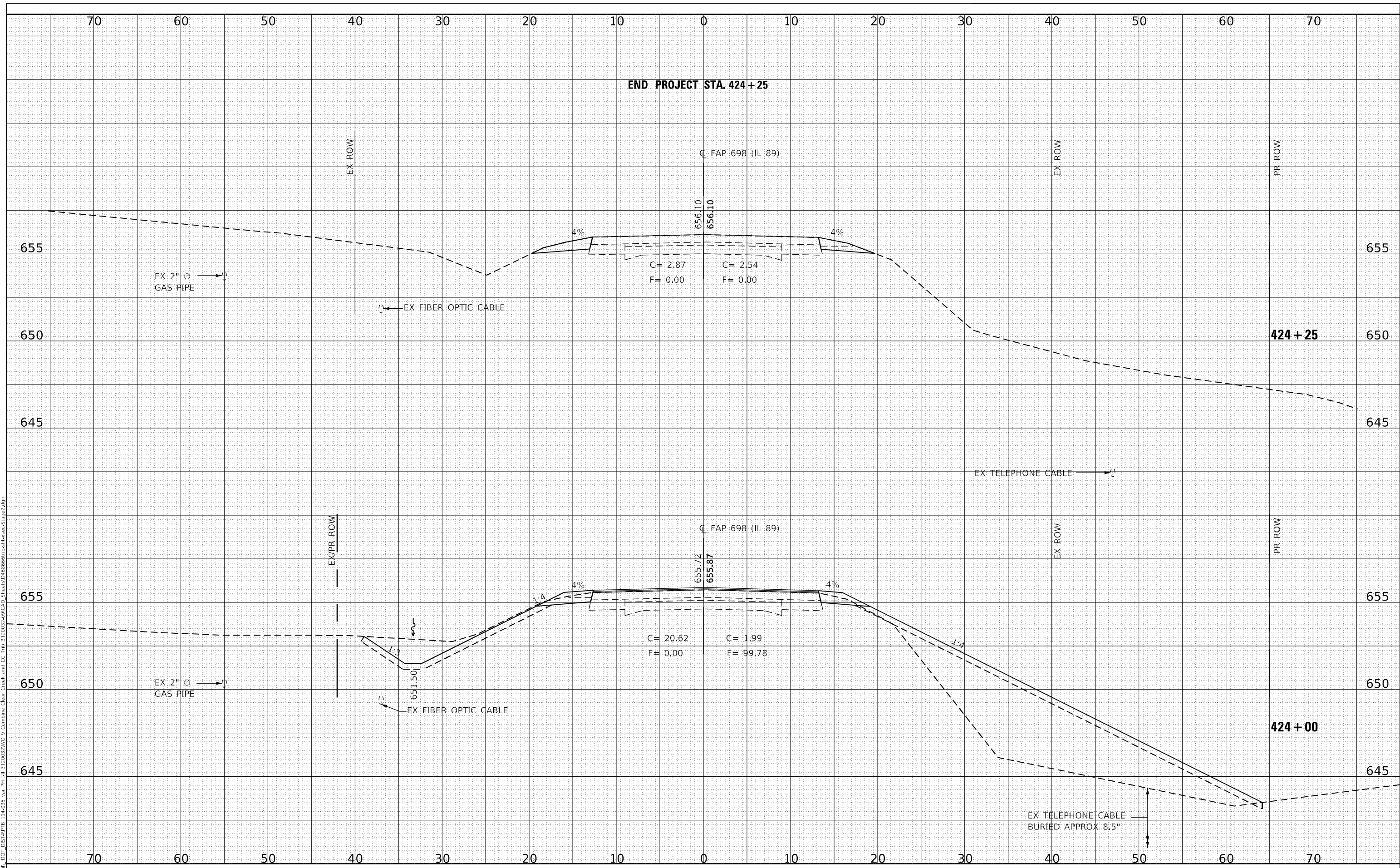
**CROSS SECTIONS - STAGE II AND III
 ILLINOIS ROUTE 89 OVER CLEAR CREEK TRIBUTARY**
 SCALE: SHEET OF SHEETS STA. 423+00 TO STA. 423+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	64
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

MODEL: Default
 FILE NAME: P:\CADD\DOT_DWG\TPB 194-035 var PH - I 312032\W0 9 Combine Clear Creek and CC Trib 312032-09\CAD_Sheets\168666-ib-hw-e-Stage2.dgn



The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 123 North 15th Street
 Maitland, FL 32751
 Phone: 317.258.3177
 License No. 184-903-001
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Sta42
 TUG PROJECT NO. 3120032-09
 PLOT SCALE = 10,0000 * / in.
 PLOT DATE = 10/12/2022

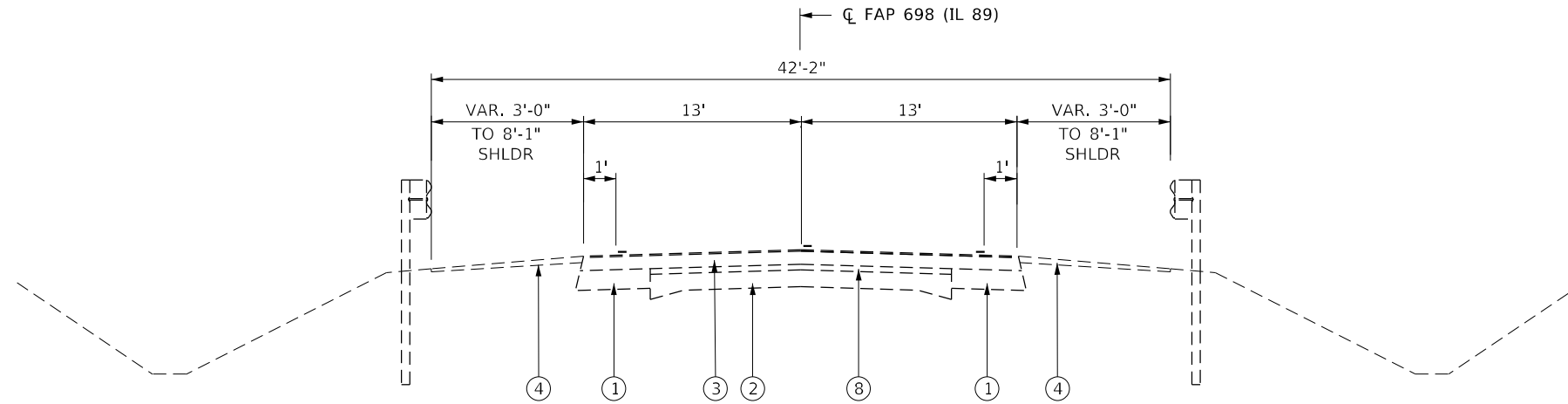
DESIGNED - MJS
 DRAWN - SAE
 CHECKED - MJS
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

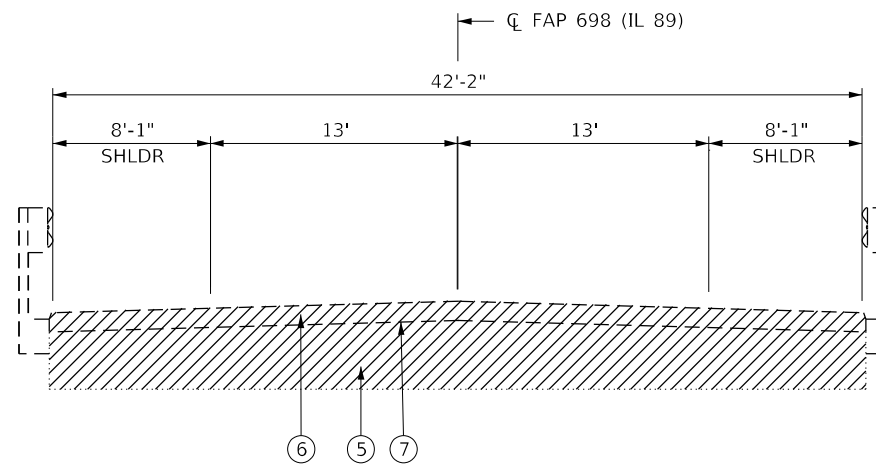
**CROSS SECTIONS - STAGE II AND III
 ILLINOIS ROUTE 89 OVER CLEAR CREEK TRIBUTARY**
 SCALE: SHEET OF SHEETS STA. 424+00 TO STA. 424+25

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	65
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION #1

STA 491+00 TO STA 494+39
STA 494+65 TO STA 498+50

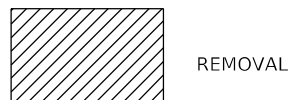


EXISTING TYPICAL SECTION #2

STA 494+39 TO STA 494+65

LEGEND

- ① HMA WIDENING, 7"
- ② 9"-6"-9" PVMT
- ③ HMA OVERLAY, ± 4 7/8"
- ④ AGG SHLDR
- ⑤ CONC DECK, 1'-6" MAX
- ⑥ HMA WEARING SURF, ± 5"
- ⑦ WATERPROOFING MEMBRANE SYSTEM
- ⑧ HMA OVERLAY, 2"



MODEL: D:\p\h\1\1\DOT_DIST\UTTB_194-035_war_PN_HH_3120032\WO_9_Combine_Clear_Creek_and_CC_Trib_3120032-09\CAD_Sheets\1468665-11-cylindrical.dgn

The Upchurch Group
architects engineers surveyors
Professional Design Firm Corporation
123 North 15th Street
Maitland, FL 32751
Phone: 217.253.5177
License No. 184903401
e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Station 44
TUG PROJECT NO. 3120032-09
PLOT SCALE = 10,0000 * / in.
PLOT DATE = 5/9/2022

DESIGNED - MJS
DRAWN - SAE
CHECKED - MJS
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
ILLINOIS ROUTE 89 OVER CLEAR CREEK**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	66
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING SCHEDULE												
STATION TO STATION	LT / RT	LENGTH	70107005	70300100	70300150	70307120	70307210	78009004	78009006	78100100	78300200	
			PAVEMENT MARKING REMOVAL BLACKOUT, 5"	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	TEMPORARY PAVEMENT MARKING LINE 4", TYPE IV TAPE	TEMPORARY PAVEMENT MARKING LINE 24", TYPE IV TAPE	MODIFIED URETHANE PAVEMENT MARKING LINE, 4"	MODIFIED URETHANE PAVEMENT MARKING LINE, 6"	RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKING REMOVAL	
			FOOT	FOOT	SQ FT	FOOT	FOOT	YELLOW	WHITE	EACH	EACH	
STAGE I												
491+92	493+39	CL	147	40	16.8						5	
491+92	493+39	LT	147	147	61.7							
495+65	497+10	CL	145	40	16.8						5	
495+65	497+10	RT	145	145	60.9							
491+92	497+10	RT/LT	518		170.9	518						
492+92	496+24	RT	332		109.6	332						
491+02	RT	13		26.0		13						
498+40	LT	13		26.0		13						
STAGE II												
491+12	496+78	RT/LT	566		186.8	566						
492+56	496+37	LT	381		125.7	381						
STAGE III												
492+92	496+24	RT	332		109.6	332						
491+92	497+10	LT	518		170.9	518						
FINAL STAGE												
491+00	498+50		750	2305*	760.7			805 *	1500	10		
TOTALS				372	2305	1842	2647	26	805	1500	10	10

* SOLID YELLOW CENTERLINE STA. 492+33 TO STA. 498+50

RIGHT OF WAY AND SURVEY MARKER SCHEDULE				
LOCATION		66600105		66700205
		FURNISHING AND ERECTING RIGHT OF WAY MARKERS		PERMANENT SURVEY MARKERS, TYPE 1
STATION	OFFSET		EACH	EACH
491+50	40'	LT	1	
494+00	75'	LT	1	
495+00	75'	LT	1	
498+00	40'	LT	1	
491+50	40'	RT	1	
492+50	60'	RT	1	
494+00	70'	RT	1	
495+00	70'	RT	1	
497+15	40'	RT	1	
TBD				1
TOTAL			9	1

TEMPORARY DITCH CHECKS SCHEDULE		
LOCATION		28000305
		TEMPORARY DITCH CHECKS
STATION	OFFSET	FOOT
491+92	RT	8
493+91	RT	8
495+19	RT	8
496+19	RT	8
497+20	RT	8
491+92	LT	8
493+91	LT	8
495+08	LT	8
495+71	LT	8
496+71	LT	8
497+71	LT	8
TOTALS		88

PIPE CULVERT SCHEDULE			
STATION	OFFSET	54260515	542D0220
		SLOPED METAL END SECTION, STD. 542411, 15", 1:6	PIPE CULVERTS, CLASS D, TYPE 1, 15"
		EACH	FOOT
496+92.34	RT	2	47
497+48.87	LT	2	51
TOTAL		4	98

CULVERT REMOVAL SCHEDULE			
LOCATION			50105220
			PIPE CULVERT REMOVAL
STATION	LT/RT	SIZE (IN)	FOOT
496+92	RT	15	27
497+48	LT	15	27
TOTAL			54

MODEL: D:\p\h\11 3120032\WO 9 Combine Ckrk and CC Trib 3120032-09\CAD_Sheets\1468665-11-SchedQuant.dgn
 FILE NAME: P:\C\11\DOT_DIST\PTB 194-035 var PH 11 3120032\WO 9 Combine Ckrk and CC Trib 3120032-09\CAD_Sheets\1468665-11-SchedQuant.dgn

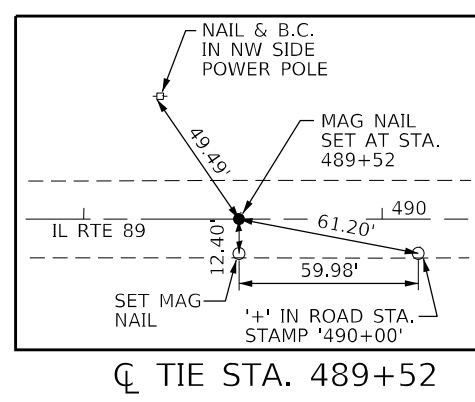
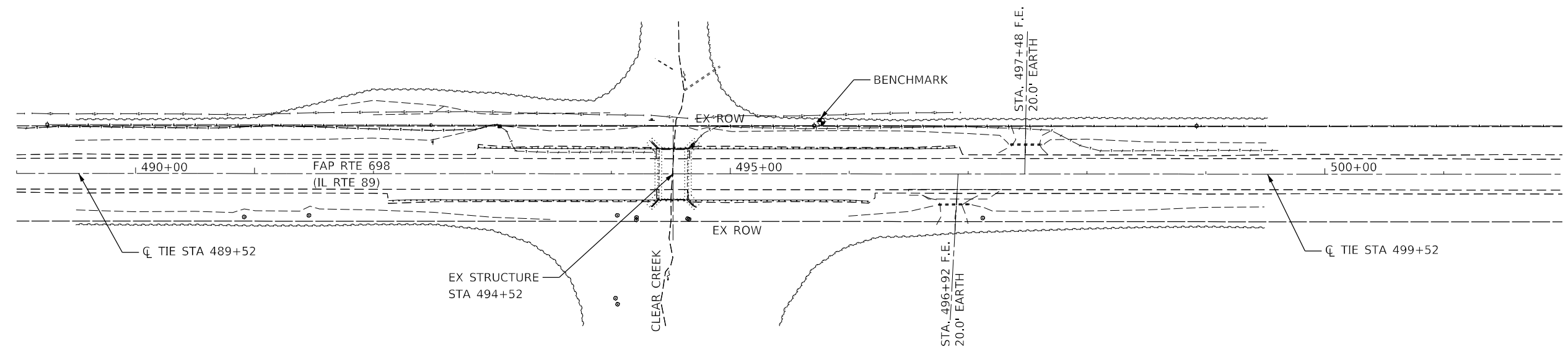
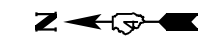
The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 123 North 15th Street
 Madison, IL 61738
 Phone: 217-235-3177
 License No. 154-003401
 Email: upchurchgroup@upchurchgroup.com


USER NAME = Sta37	DESIGNED - MJS	REVISED -
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - MJS	REVISED -
PLOT DATE = 1/12/2023	DATE -	REVISED -

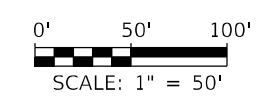
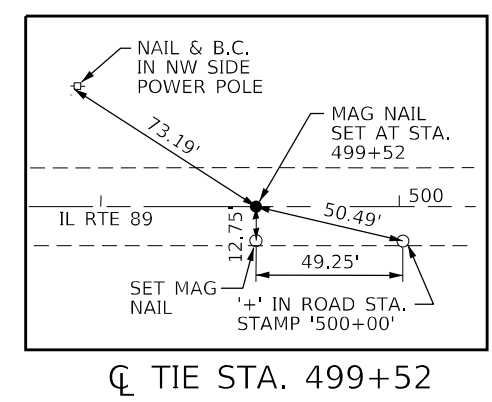
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES			
ILLINOIS ROUTE 89 OVER CLEAR CREEK			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	70
				CONTRACT NO. 68666
		ILLINOIS	FED. AID PROJECT	



 BENCHMARK:
 RAILROAD SPIKE ON WEST SIDE OF 1ST POWER POLE
 SOUTH OF BRIDGE AND EAST OF IL RTE 89.
 ELEVATION = 649.32



MODEL: D:\p\h\11 3120032\W0 9 Combine Clear Creek and CC Trib 3120032-09\CAD_Sheets\1468666-5-11-21\alignment_his.dgn
 FILE NAME: PL\CD\11.DOT_DIST\110TB 194-035 var PH 11 3120032\W0 9 Combine Clear Creek and CC Trib 3120032-09\CAD_Sheets\1468666-5-11-21\alignment_his.dgn

The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 License No. 184-003401
 123 North 15th Street
 Maitland, IL 61138
 Phone: 217.253.5177
 Email: upchurchgroup@upchurchgroup.com

USER NAME = Station 44	DESIGNED - MJS	REVISED -
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED - MJS	REVISED -
PLOT DATE = 5/9/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

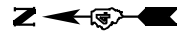
ALIGNMENT, TIES AND BENCHMARK
ILLINOIS ROUTE 89 OVER CLEAR CREEK

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	72
CONTRACT NO. 68666				
		ILLINOIS	FED. AID PROJECT	

SCALE: SHEET OF SHEETS STA. TO STA.

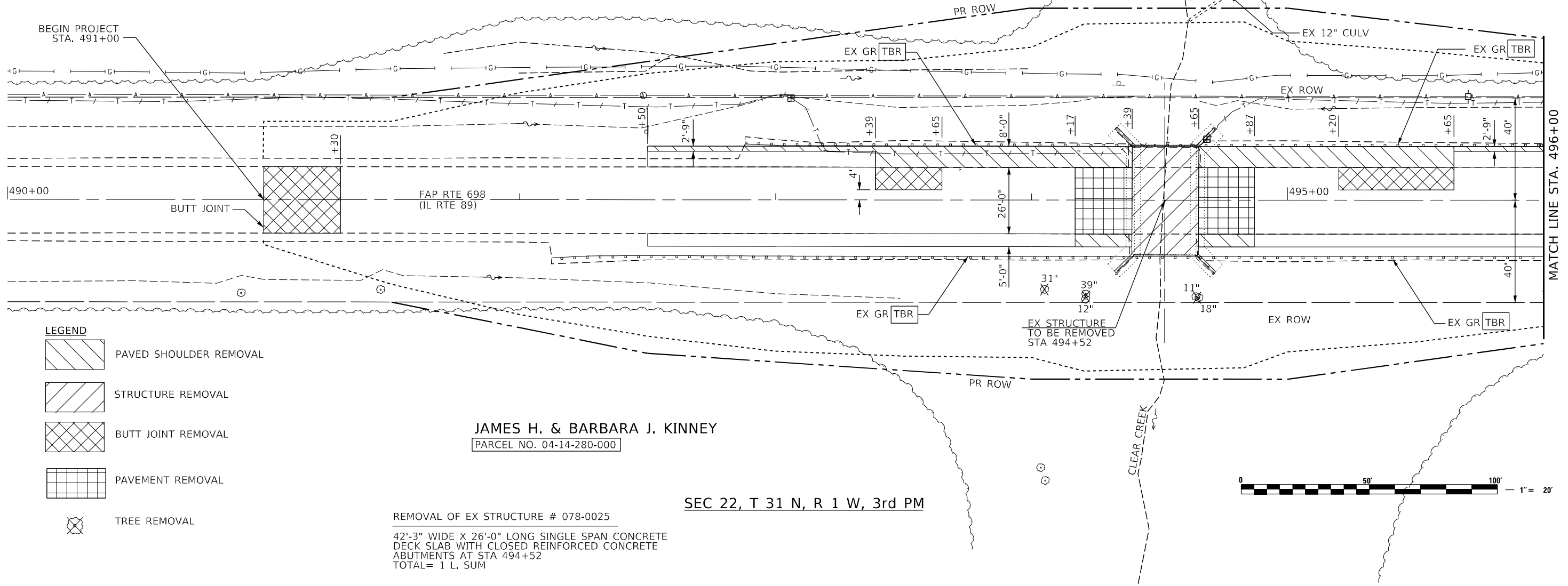
B.B.H. FARMS, INC.
 PARCEL NO. 04-14-270-000

SEC 22, T 31 N, R 1 W, 3rd PM



DATE	
BY	
PLAN	SURVEYED
	PLOTTED
	ALIGNMENT CHECKED
	GRADE CHECKED
	STRUCTURE NOTATION CHECKED
	CADD FILE NAME
	NO.

DATE	
BY	
PROFILE	SURVEYED
	PLOTTED
	GRADES CHECKED
	STRUCTURE NOTATION CHECKED
	NO.

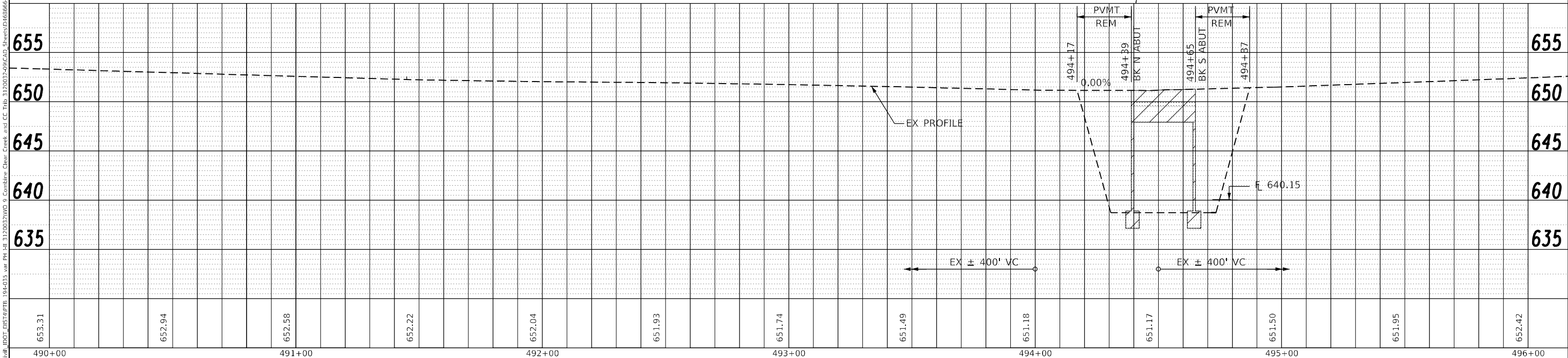


- LEGEND**
- PAVED SHOULDER REMOVAL
 - STRUCTURE REMOVAL
 - BUTT JOINT REMOVAL
 - PAVEMENT REMOVAL
 - TREE REMOVAL

JAMES H. & BARBARA J. KINNEY
 PARCEL NO. 04-14-280-000

SEC 22, T 31 N, R 1 W, 3rd PM

REMOVAL OF EX STRUCTURE # 078-0025
 42'-3" WIDE X 26'-0" LONG SINGLE SPAN CONCRETE
 DECK SLAB WITH CLOSED REINFORCED CONCRETE
 ABUTMENTS AT STA 494+52
 TOTAL= 1 L. SUM



The Upchurch Group
 architects engineers surveyors
 123 North 15th Street
 Maitland, IL 61938
 Phone: 312.253.1777
 License No. 184-803401
 e-mail: upchurchgroup@upchurchgroup.com

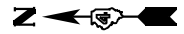
USER NAME = Station 44	DESIGNED - MJS	REVISIONS
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISIONS
PLOT SCALE = 40,0000 * / in.	CHECKED - MJS	REVISIONS
PLOT DATE = 10/12/2022	DATE -	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN AND PROFILE
ILLINOIS ROUTE 89 OVER CLEAR CREEK
 SCALE: SHEET OF SHEETS STA. 490+00 TO STA. 496+00

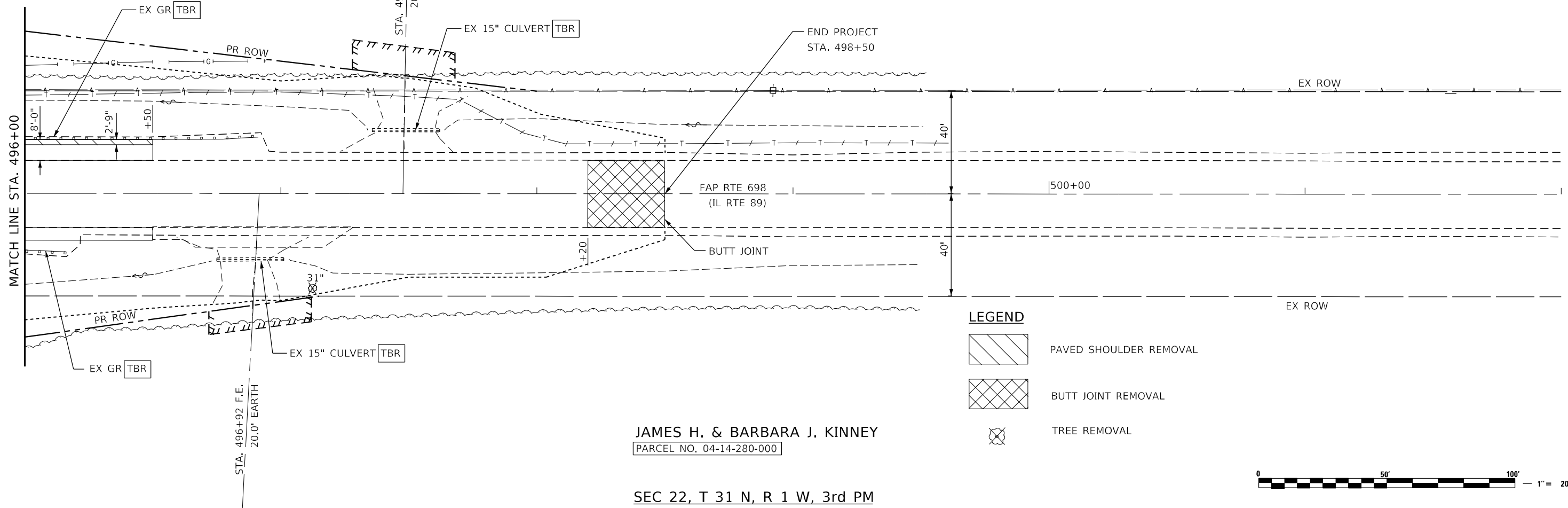
F.A.P. RTE. 698	SECTION (122)BR, BR-1	COUNTY PUTNAM	TOTAL SHEETS 124	SHEET NO. 73
CONTRACT NO. 68666				ILLINOIS FED. AID PROJECT

SEC 22, T 31 N, R 1 W, 3rd PM






AGRICULTURE

B.B.H. FARMS, INC.
 PARCEL NO. 04-14-270-000



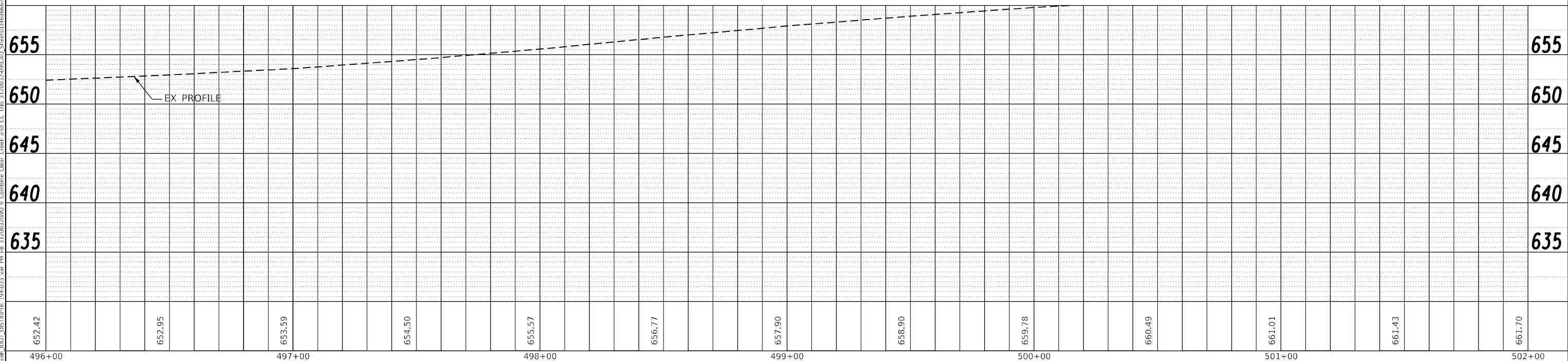
LEGEND

-  PAVED SHOULDER REMOVAL
-  BUTT JOINT REMOVAL
-  TREE REMOVAL



JAMES H. & BARBARA J. KINNEY
 PARCEL NO. 04-14-280-000

SEC 22, T 31 N, R 1 W, 3rd PM



PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	GRADE CHECKED	
	STRUCTURE NOTATION CHECKED	
	CADD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATION CHECKED	
	NO.	

MODEL: Default
 FILE NAME: P:\CADD\DOT-DIS\141118\141118-033 var PM.dwg
 PLOT DATE: 10/12/2022

The Upchurch Group
 architects engineers surveyors
 123 North 15th Street
 Maitland, IL 61938
 Phone: 312.253.1777
 License No. 184-803401
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Station 44
 TUG PROJECT NO. 3120032-09
 PLOT SCALE = 40,0000 * / in.
 PLOT DATE = 10/12/2022

DESIGNED - MJS
 DRAWN - SAE
 CHECKED - MJS
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN AND PROFILE
 ILLINOIS ROUTE 89 OVER CLEAR CREEK
 SCALE: SHEET OF SHEETS STA. 496+00 TO STA. 502+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	74
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				

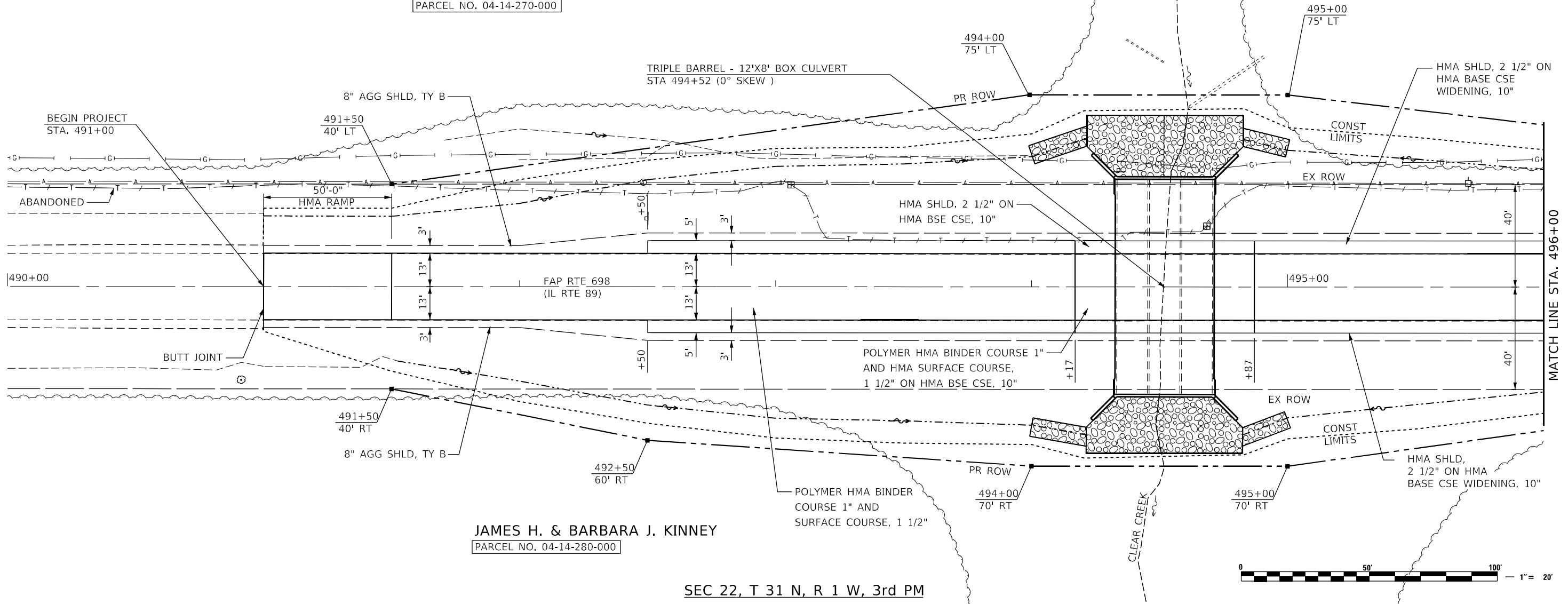
B.B.H. FARMS, INC.
 PARCEL NO. 04-14-270-000

SEC 22, T 31 N, R 1 W, 3rd PM



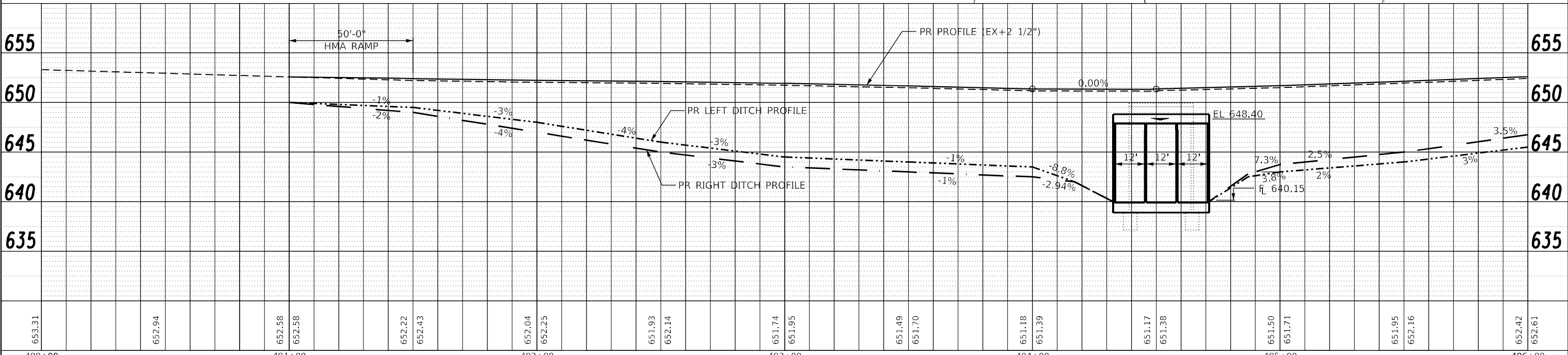
DATE	
BY	
PLAN	SURVEYED
	PLOTTED
	ALIGNED
	CHECKED
	FILED
	NO.
	NO.
	NO.
	NO.

DATE	
BY	
PROFILE	SURVEYED
	PLOTTED
	GRADES
	CHECKED
	STRUCTURE
	NOTARIS
	NO.
	NO.
	NO.



JAMES H. & BARBARA J. KINNEY
 PARCEL NO. 04-14-280-000

SEC 22, T 31 N, R 1 W, 3rd PM



The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 123 North 15th Street
 Maitland, IL 61938
 Phone: 312.253.1777
 License No. 184-803401
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Station 44	DESIGNED - MJS	REVISED -
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED - MJS	REVISED -
PLOT DATE = 5/9/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
ILLINOIS ROUTE 89 OVER CLEAR CREEK
 SCALE: SHEET OF SHEETS STA. 490+00 TO STA. 496+00

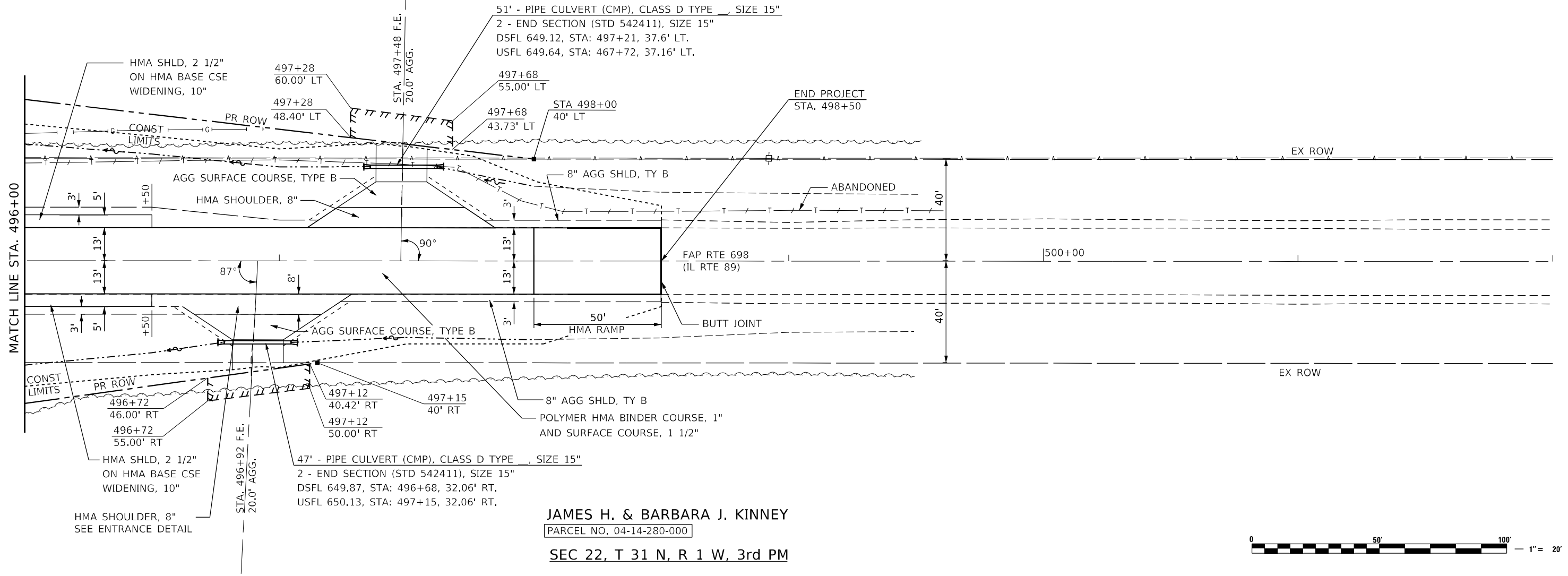
F.A.P. RTE. 698	SECTION (122)BR, BR-1	COUNTY PUTNAM	TOTAL SHEETS 124	SHEET NO. 75
CONTRACT NO. 68666			ILLINOIS FED. AID PROJECT	

MODEL: Default
 FILE NAME: P:\CADD\DOT-DIST\141118\141118-033 var PM.dwg
 3120032-09\141118-033 var PM.dwg
 3120032-09\CAD Sheets\141118-033 var PM.dwg

SEC 22, T 31 N, R 1 W, 3rd PM

B.B.H. FARMS, INC.

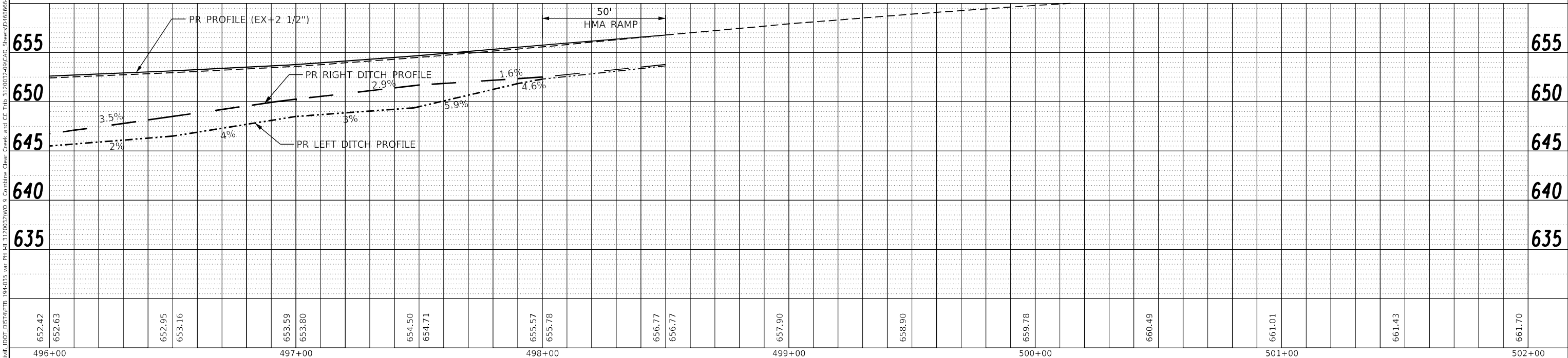
PARCEL NO. 04-14-270-000



JAMES H. & BARBARA J. KINNEY

PARCEL NO. 04-14-280-000

SEC 22, T 31 N, R 1 W, 3rd PM



DATE	
BY	
PLAN	
NO.	
REVISIONS	
NO.	
DATE	
BY	
PLAN	
NO.	

DATE	
BY	
PROFILE	
NO.	
REVISIONS	
NO.	
DATE	
BY	
PROFILE	
NO.	

MODEL: Default
 FILE NAME: P:\CADD\DOT-DIST\141118\141118-033 var PM.dwg
 PROJECT: 3120032\W05 Combine Clear Creek and CC Trk 3120032-09\CAD Sheets\04166666-141118.dwg

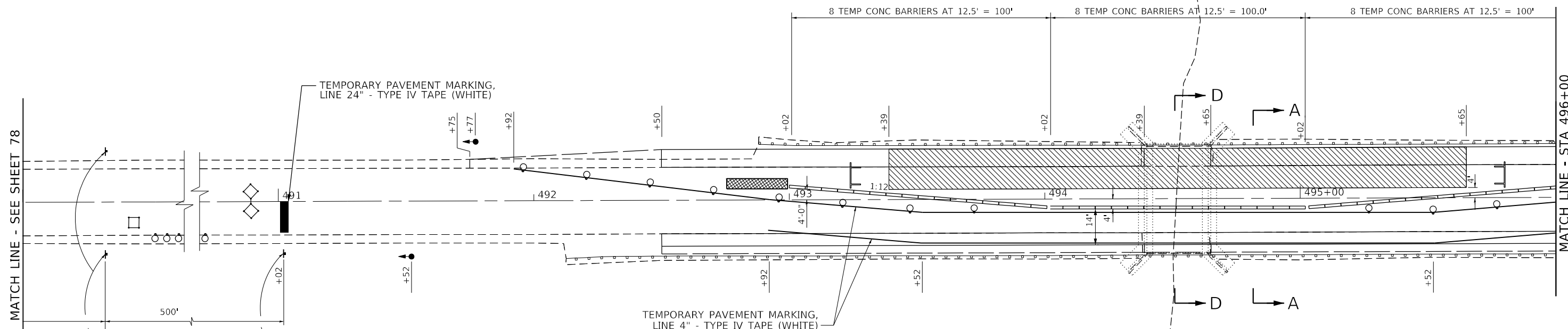
The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 123 North 15th Street
 Mankato, IL 61302
 Phone: 312.253.3177
 License No. 184-803401
 Email: upchurchgroup@upchurchgroup.com

USER NAME = Station 44	DESIGNED - MJS	REVISIONS -
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISIONS -
PLOT SCALE = 40,0000 * / in.	CHECKED - MJS	REVISIONS -
PLOT DATE = 5/9/2022	DATE -	REVISIONS -

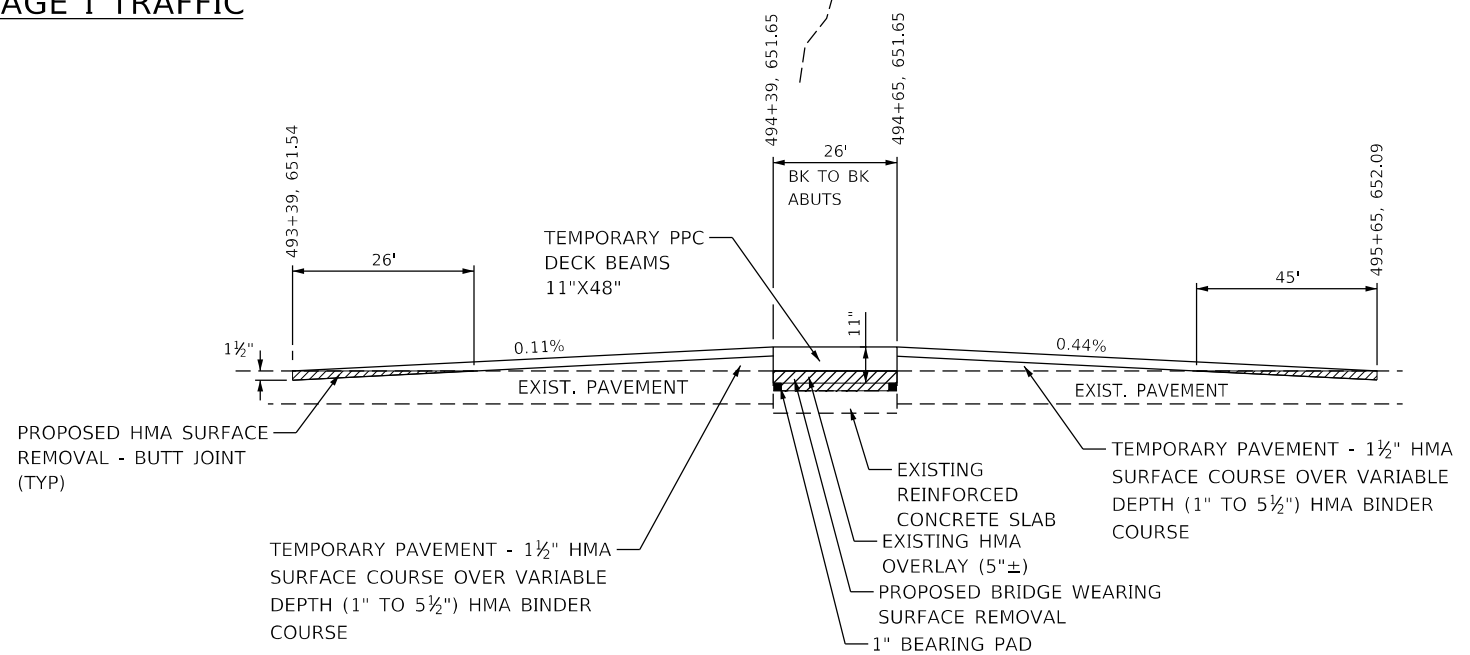
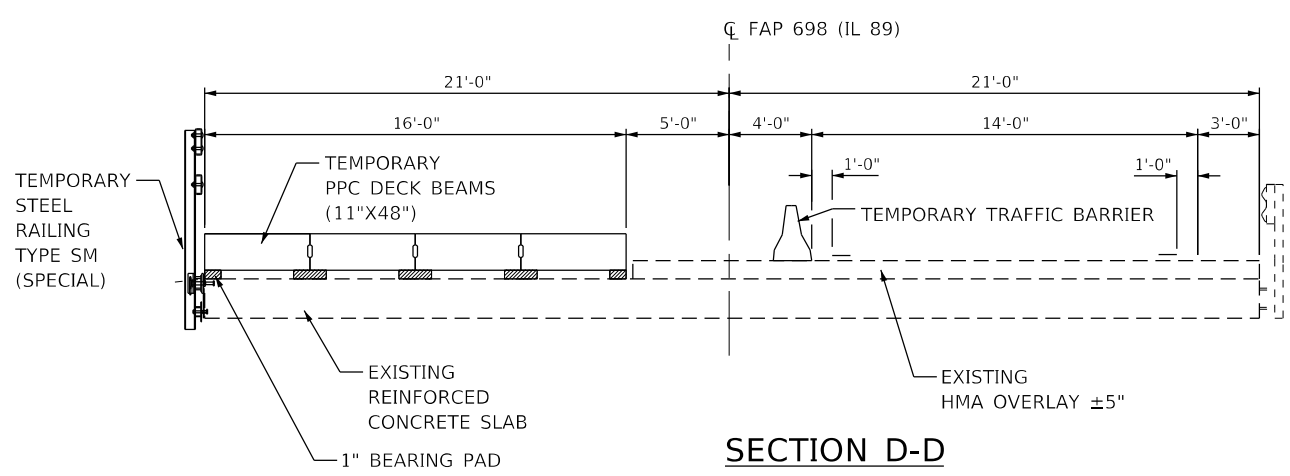
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN AND PROFILE	
ILLINOIS ROUTE 89 OVER CLEAR CREEK	
SCALE:	SHEET OF SHEETS STA. 496+00 TO STA. 502+00

F.A.P. RTE. 698	SECTION (122)BR, BR-1	COUNTY PUTNAM	TOTAL SHEETS 124	SHEET NO. 76
CONTRACT NO. 68666			ILLINOIS FED. AID PROJECT	



STAGE I TRAFFIC



PAVEMENT TRANSITION DETAIL
(NOT TO SCALE)

TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701321 AND THESE DETAILS

LEGEND

- WORK AREA
- IMPACT ATTENUATOR
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- DOUBLE VERTICAL PANEL
- TRAFFIC SIGNAL
- INDUCTION LOOP DETECTOR
- TEMPORARY CONCRETE BARRIER



MODEL: D:\upch\1144-035-001\DOT_DIST\TP7B_194-035.dwg
 FILE NAME: P:\CADD\DOT_DIST\TP7B_194-035.dwg
 PLOT DATE: 10/4/2022

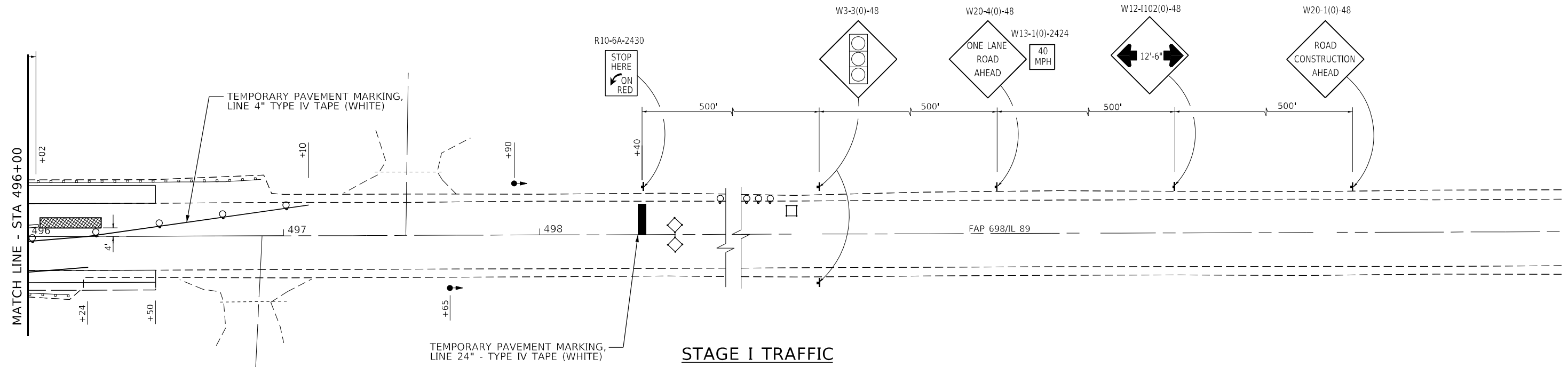
The Upchurch Group
 architects engineers surveyors
 123 North 15th Street
 Madison, IL 61738
 Phone: 217.235.3177
 License No. 194-003401
 Email: upchurchgroup@upchurchgroup.com

USER NAME = Sta42	DESIGNED - MJS	REVISED -
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MJS	REVISED -
PLOT DATE = 10/4/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION


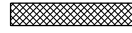







TRAFFIC CONTROL PLANS - STAGE I			
ILLINOIS ROUTE 89 OVER CLEAR CREEK			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	79
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				



TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701321 AND THESE DETAILS

LEGEND

-  WORK AREA
-  IMPACT ATTENUATOR
-  SIGN
-  TYPE III BARRICADE
-  DRUM WITH STEADY BURNING LIGHT
-  DOUBLE VERTICAL PANEL
-  TRAFFIC SIGNAL
-  INDUCTION LOOP DETECTOR
-  TEMPORARY CONCRETE BARRIER



MODEL: D:\p\h\111111\DOT_DIST\DOTB_194-035_war_PN_HH_3120032\WO_9_Combine_Clear_Creek_and_CC_Trib_3120032-09\CAD_Sheets\1468665-shc-orestage3.dgn
 FILE NAME: PL\Curf_IDOT_DIST\DOTB_194-035_war_PN_HH_3120032\WO_9_Combine_Clear_Creek_and_CC_Trib_3120032-09\CAD_Sheets\1468665-shc-orestage3.dgn

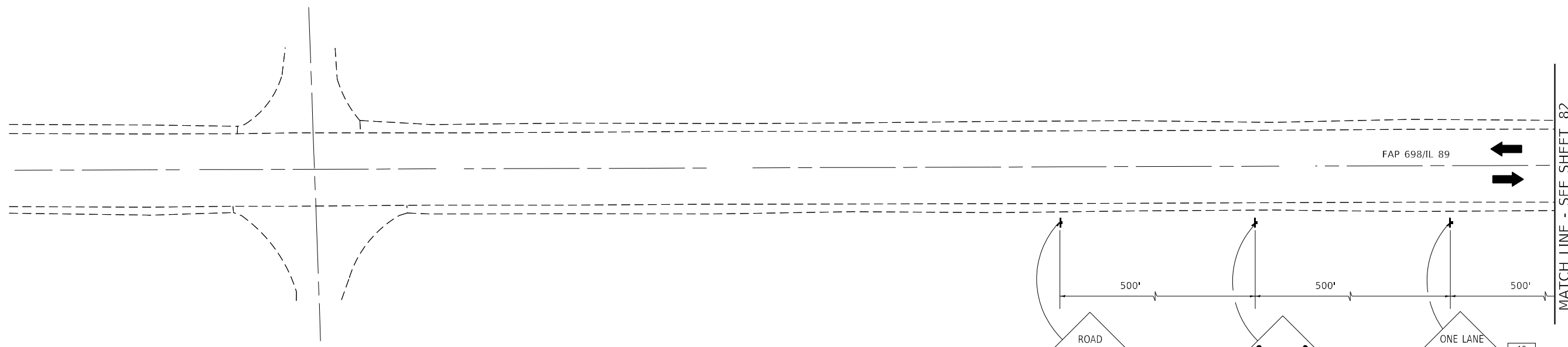
The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 License No. 184903401
 123 North 15th Street
 Maitland, IL 61138
 Phone: 217.253.3177
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Station 44	DESIGNED - MJS	REVISED -
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED - MJS	REVISED -
PLOT DATE = 5/9/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS - STAGE I			
ILLINOIS ROUTE 89 OVER CLEAR CREEK			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

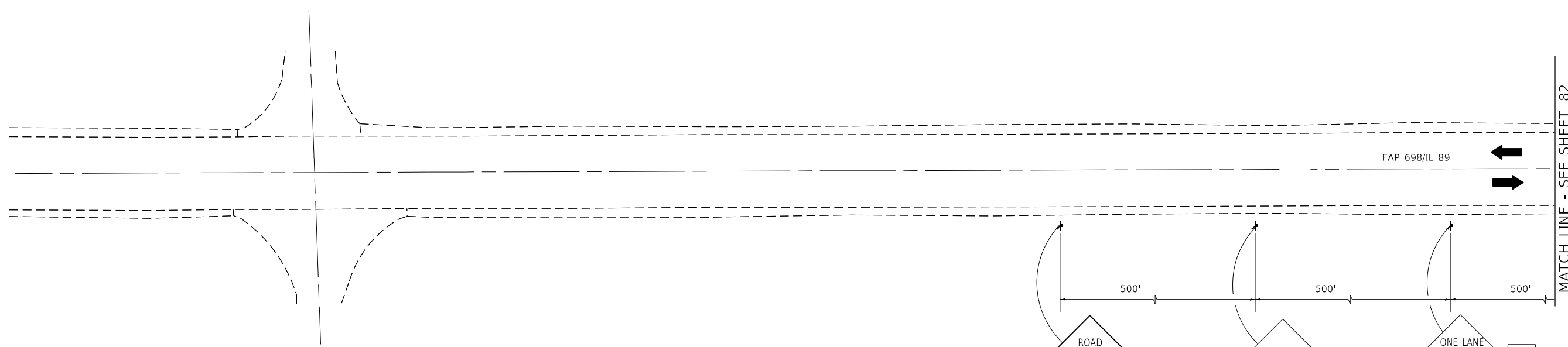
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	80
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				



STAGE II TRAFFIC

LEGEND

- WORK AREA
- IMPACT ATTENUATOR
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- DOUBLE VERTICAL PANEL
- TRAFFIC SIGNAL
- INDUCTION LOOP DETECTOR
- TEMPORARY CONCRETE BARRIER



STAGE III TRAFFIC

TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701321 AND THESE DETAILS



MODEL: Default
 FILE NAME: P:\C\upch\IDOT_DIST\RTTB 194-035 var PH.dwg
 PLOT DATE: 5/9/2022
 PLOT SCALE: 40,0000 * / in.
 PLOT DATE: 5/9/2022

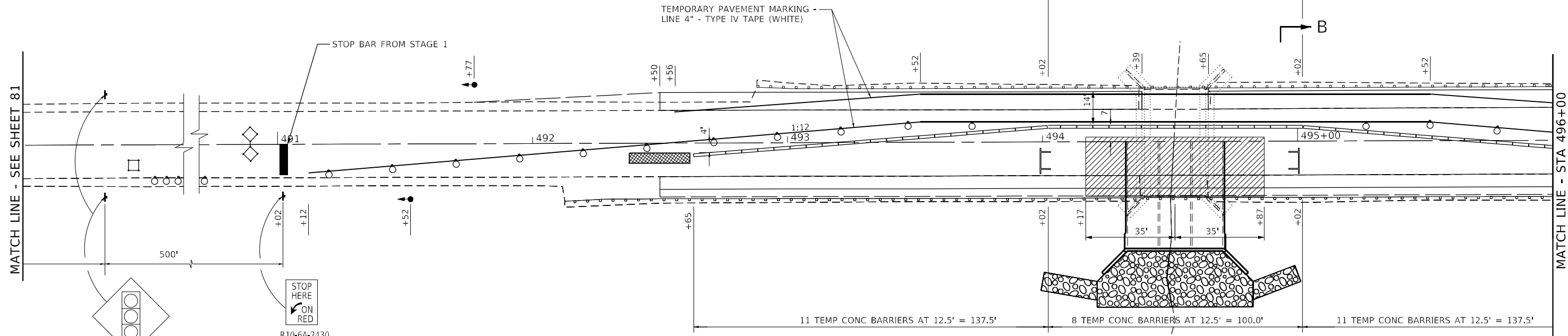
The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 License No. 184-003401
 123 North 15th Street
 Maitland, IL 61938
 Phone: 217.253.5177
 Email: upchurchgroup@upchurchgroup.com

USER NAME = Station 44	DESIGNED - MJS	REVISED -
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED - MJS	REVISED -
PLOT DATE = 5/9/2022	DATE -	REVISED -

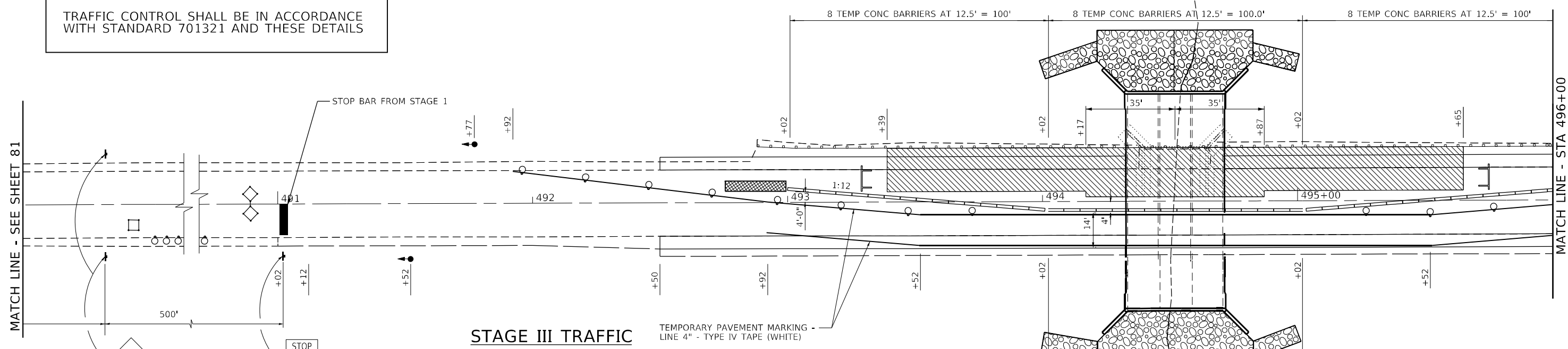
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS – STAGE II AND III			
ILLINOIS ROUTE 89 OVER CLEAR CREEK			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	81
CONTRACT NO. 68666				
ILLINOIS		FED. AID PROJECT		



STAGE II TRAFFIC



STAGE III TRAFFIC

TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701321 AND THESE DETAILS

LEGEND

- WORK AREA
- IMPACT ATTENUATOR
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- DOUBLE VERTICAL PANEL
- TRAFFIC SIGNAL
- INDUCTION LOOP DETECTOR
- TEMPORARY CONCRETE BARRIER



MODEL: D:\p\1\11 3120032\W09 Combine Clear Creek and CC Trib 3120032-09\CAD_Sheets\1468666-shc-mos3.dgn
 FILE NAME: P:\C\11 3120032\W09 Combine Clear Creek and CC Trib 3120032-09\CAD_Sheets\1468666-shc-mos3.dgn

The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 123 North 15th Street
 Maitland, IL 61138
 Phone: 217.235.3177
 License No: 184903401
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Station_44
 TUG PROJECT NO. 3120032-09
 PLOT SCALE = 40,0000 * / in.
 PLOT DATE = 5/9/2022

DESIGNED - MJS	REVISED -
DRAWN - SAE	REVISED -
CHECKED - MJS	REVISED -
DATE -	REVISED -

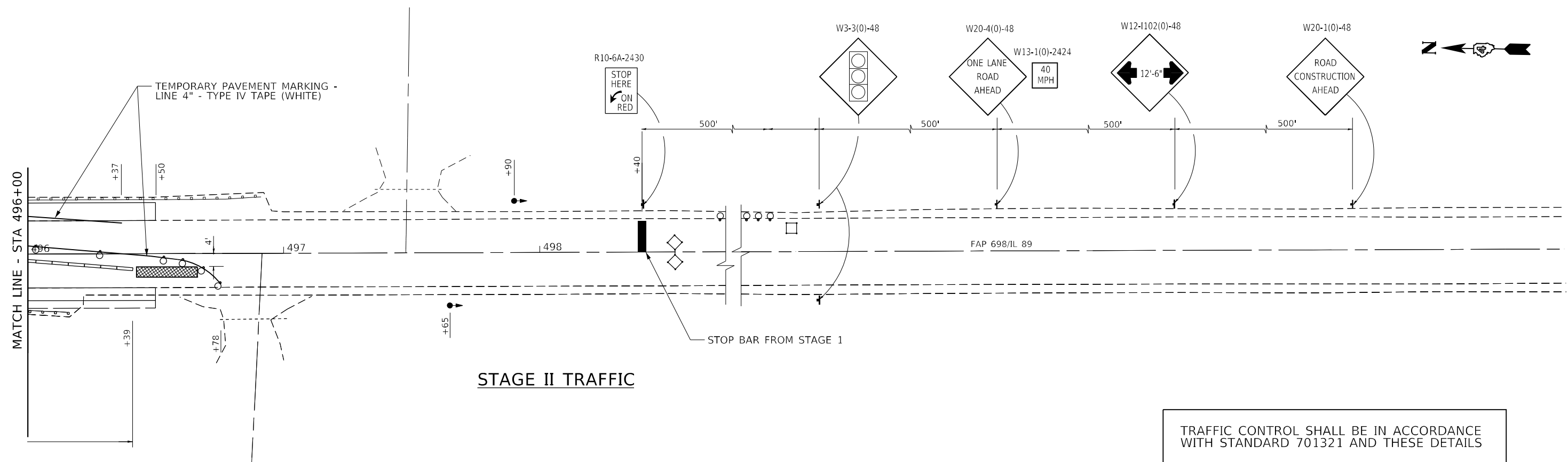
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLANS - STAGE II AND III
 ILLINOIS ROUTE 89 OVER CLEAR CREEK**

SCALE: SHEET OF SHEETS STA. TO STA.

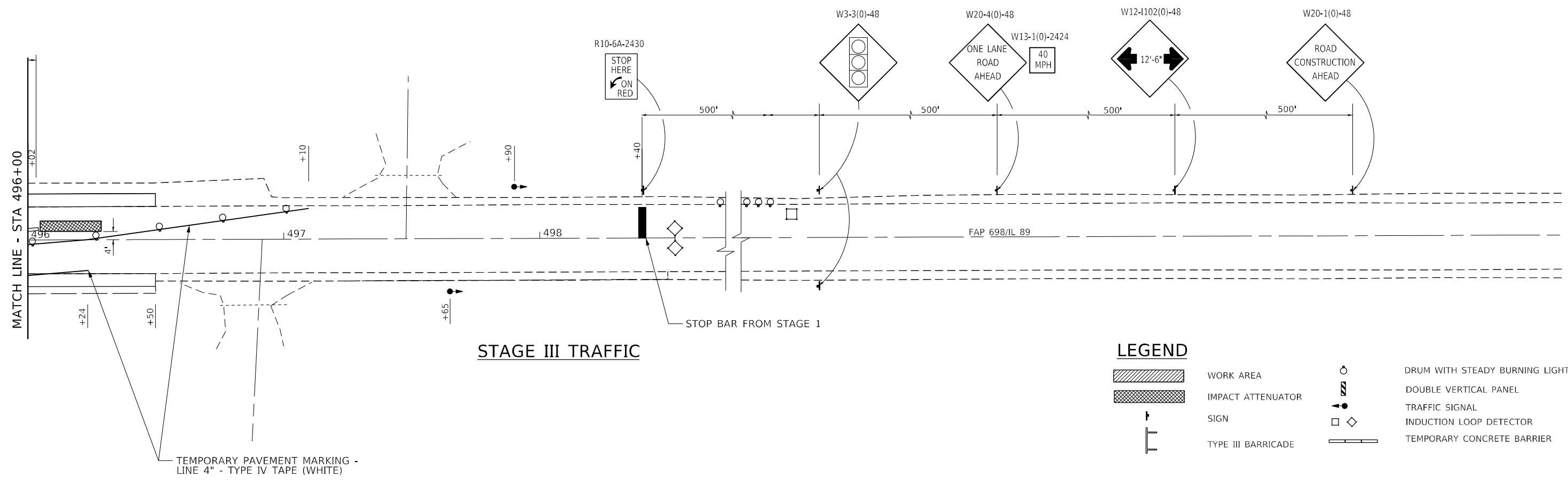
F.A.P. RTE. 698	SECTION (122)BR, BR-1	COUNTY PUTNAM	TOTAL SHEETS 124	SHEET NO. 82
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				

MODEL: D:\p\h\1 3120032\W0 9 Combine Clear Creek and CC Trib 3120032-09\CAD_Sheets\1468665-1st-mod4.dgn
 FILE NAME: PL\CD\1468665-1st-mod4.dgn
 IDOT DISTRICT: 194-035 var PH 141 3120032\W0 9 Combine Clear Creek and CC Trib 3120032-09\CAD_Sheets\1468665-1st-mod4.dgn



STAGE II TRAFFIC

TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701321 AND THESE DETAILS



STAGE III TRAFFIC

LEGEND

- WORK AREA
- IMPACT ATTENUATOR
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- DOUBLE VERTICAL PANEL
- TRAFFIC SIGNAL
- INDUCTION LOOP DETECTOR
- TEMPORARY CONCRETE BARRIER



The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 License No. 184903401
 123 North 15th Street
 Maitland, IL 61138
 Phone: 217.253.5177
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Station 44	DESIGNED - MJS	REVISED -
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED - MJS	REVISED -
PLOT DATE = 5/9/2022	DATE -	REVISED -

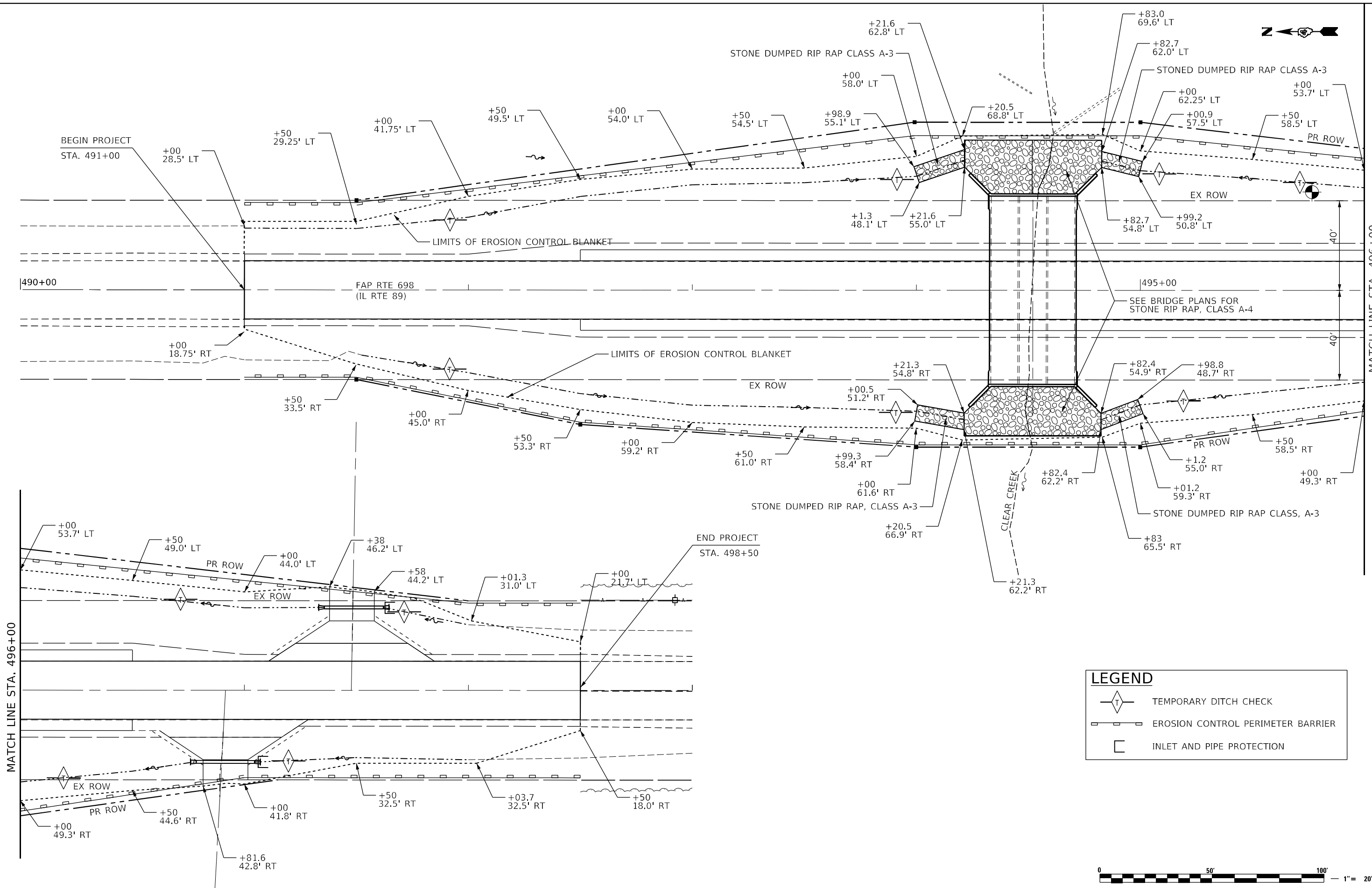
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS - STAGE II AND III
ILLINOIS ROUTE 89 OVER CLEAR CREEK

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	83
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

MODEL Path: \\p1\proj\194-035-ar-PH-11-3120032\W0-9-Combine-Clear-Creek-and-CC-Trip-3120032-09\CAD-Sheets\168666-er-erosion_control.dgn
 FILE NAME: P:\C\ur_IDOT_DIST\UTB-194-035-ar-PH-11-3120032\W0-9-Combine-Clear-Creek-and-CC-Trip-3120032-09\CAD-Sheets\168666-er-erosion_control.dgn



LEGEND

- TEMPORARY DITCH CHECK
- EROSION CONTROL PERIMETER BARRIER
- INLET AND PIPE PROTECTION



The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 123 North 15th Street
 Moline, IL 61438
 Phone: 312.253.3177
 License No. 184-0903401
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Station 44	DESIGNED - MJS	REVISED -
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED - MJS	REVISED -
PLOT DATE = 5/9/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN ILLINOIS ROUTE 89 OVER CLEAR CREEK		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		698	(122)BR, BR-1	PUTNAM	124	84
SCALE:		SHEET OF SHEETS		STA. 490+00 TO STA. 496+00		CONTRACT NO. 68666

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

BENCHMARK: Railroad Spike on west side of 1st power pole south of bridge and east of IL Rte. 89. Elevation: 649.32

EXISTING STRUCTURE: S.N. 078-0025 built in 1928 as a single span, reinforced concrete slab with closed abutments on timber piles. 26'-0" long (Bk. to Bk. Abutments) 42'-0" width (O. to O.). No salvage. Traffic to be maintained using Stage Construction. One Lane is to remain open at all times.

WATERWAY INFORMATION

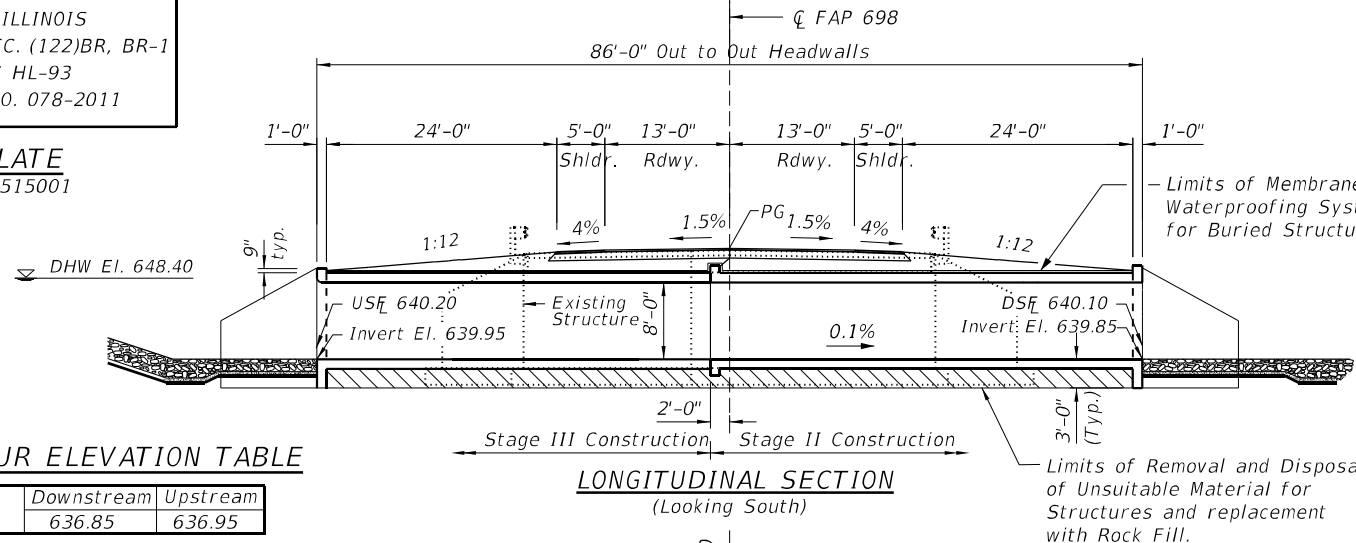
Existing Low Grade Elev. 651.17 @ Sta. 494+52
 Drainage Area = 6.71 sq mi Proposed Low Grade Elev. 651.36 @ Sta. 494+52

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater E.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
10	963	168	261	261	647.4	647.5	0.7	0.4	648.1	647.9
Design	50	1580	192	288	648.4	648.5	1.6	0.8	650.0	649.3
Base	100	1850	199	288	648.8	648.8	2.0	1.1	650.8	649.9
Max. Calc.	500	2530	199	288	649.6	649.6	4.1	1.7	653.7	651.3

10 Year Velocity Through Existing Bridge = 5.7 ft/s
 10 Year Velocity Through Proposed Bridge = 3.7 ft/s

STATION 494+52
 BUILT 20 BY
 STATE OF ILLINOIS
 F.A.P. RTE. 698 SEC. (122)BR, BR-1
 LOADING HL-93
 STRUCTURE NO. 078-2011

NAME PLATE
 See Std. 515001

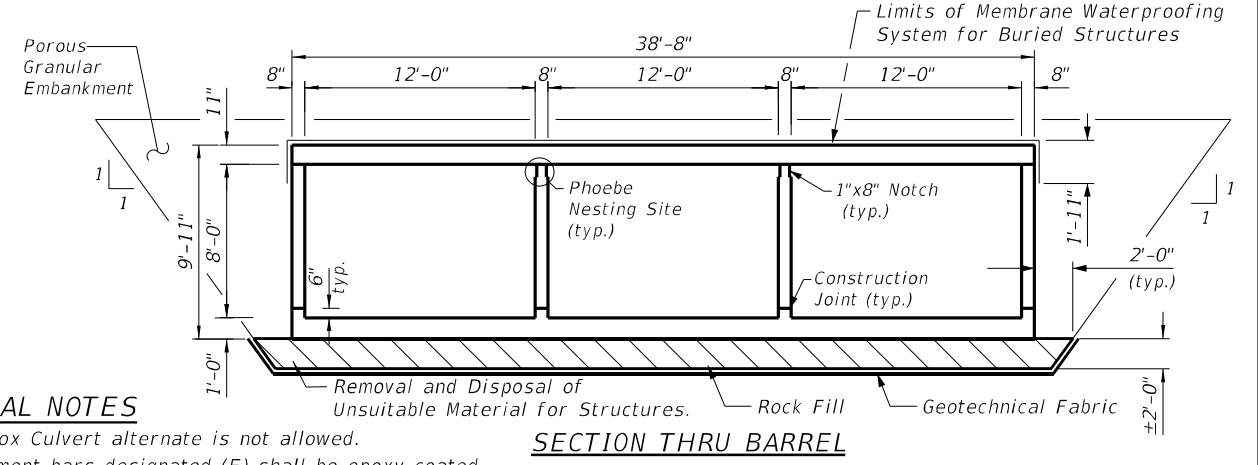


DESIGN SCOUR ELEVATION TABLE

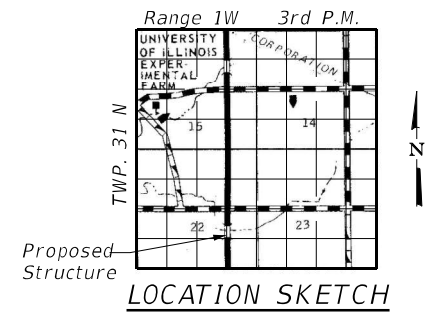
Design Scour Elevation (ft.)	Downstream	Upstream
	636.85	636.95

GENERAL NOTES

- Precast Box Culvert alternate is not allowed.
- Reinforcement bars designated (E) shall be epoxy coated.
- At least seven feet of Barrel shall be poured monolithically with wing walls.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage II removal to ensure the remaining portion will not be prematurely damaged.
- The removal of Unsuitable Material below the structure, paid as Removal and Disposal of Unsuitable Material, and replacement with Rock Fill as shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.
- Existing abutments shall be removed 2 ft. below the proposed culvert barrel and backfilled with Rock Fill.
- The Rock Fill shall be capped as indicated in the Special Provisions.
- Backfill for the culvert excavation shall consist of Porous Granular Embankment under the proposed roadway and shoulders.
- Excavation for placing Porous Granular Embankment Backfill is paid for as Structure Excavation.
- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.



SECTION THRU BARREL



LOADING HL-93

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

DESIGN SPECIFICATIONS

2015 AASHTO LRFD Bridge Design Specifications, 8th edition

DESIGN STRESSES

FIELD UNITS

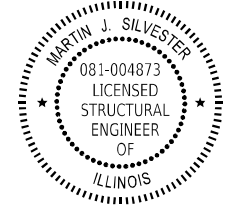
f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Structure Excavation	Cu. Yd.		843	843
Porous Granular Embankment	Cu. Yd.		313	313
Precast Prestressed Concrete Deck Beams (11" depth)	Sq. Ft.	416		416
Stone Riprap, Class A4	Ton		290	290
Filter Fabric	Sq. Yd.		281	281
Reinforcement Bars, Epoxy Coated	Pound		68750	68750
Bar Splicers	Each		188	188
Steel Railing, Type SM (Special)	Foot	27		27
Temporary Soil Retention System	Sq. Ft.		371	371
Name Plates	Each	1		1
Removal of Existing Structures	Each	1		1
Concrete Box Culverts	Cu. Yd.		342	342
Rock Fill	Cu. Yd.		236	236
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.		236	236
Membrane Waterproofing System for Buried Structure	Sq. Yd.		410	410
Geotechnical Fabric for Ground Stabilization	Sq. Yd.		420	420

INDEX OF SHEETS

- General Plan and Elevation
- Stage Construction
- Temporary 11"x 48" PPC Deck Beam
- Temporary Superstructure Details
- Temporary Steel Railing, Type SM
- Temporary Concrete Barrier for Stage Construction
- Culvert Plan and Elevation
- Culvert Details
- Bar Splicer Assembly and Mechanical Splicer Details
- Soil Boring B-1
- Soil Boring B-2
- Soil Boring B-3
- Existing Structure - Abutments
- Existing Structure - Superstructure



MARTIN J. SILVESTER
 STRUCTURAL ENGINEER
 LICENSE EXP. DATE 11-30-22

APPROVED
 For Structural Adequacy Only
 Engineer of Bridges & Structures

GENERAL PLAN AND ELEVATION

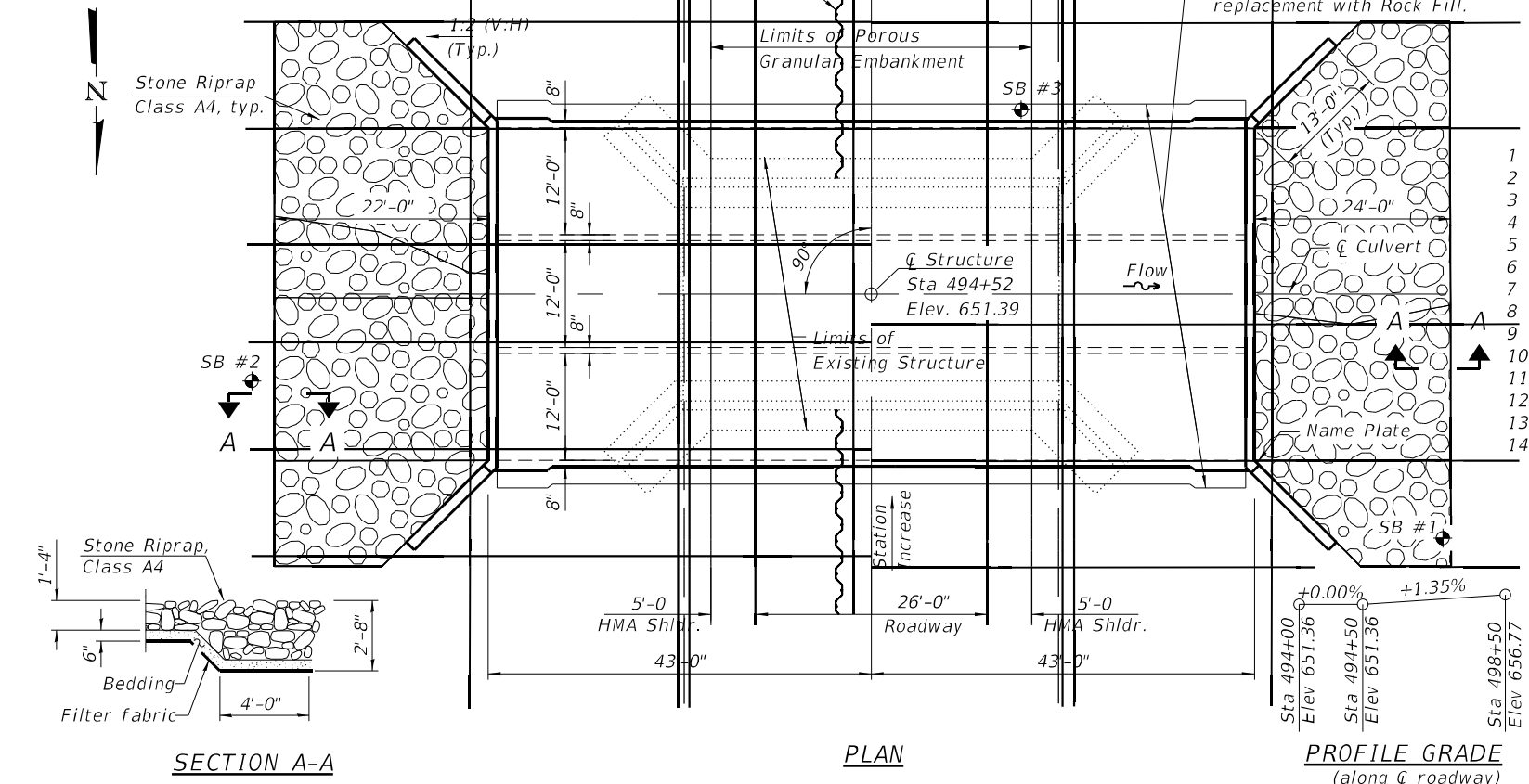
ILLINOIS ROUTE 89 OVER CLEAR CREEK

F.A.P. RTE. 698 - SEC. (122)BR, BR-1

PUTNAM COUNTY

STATION 494+52.00

STRUCTURE NO. 078-2011



SECTION A-A

PLAN

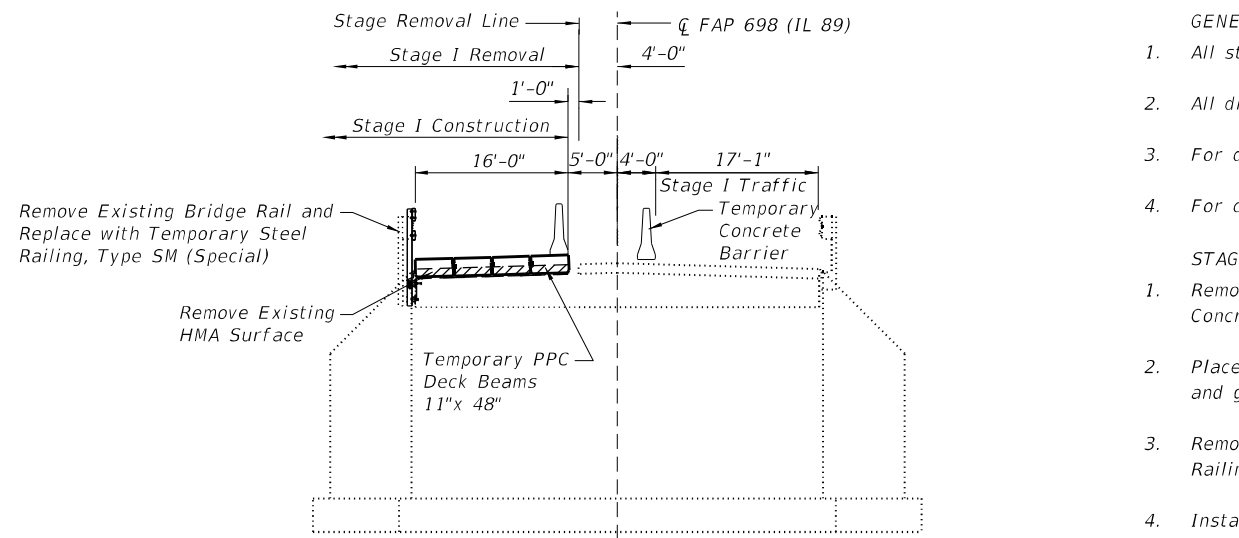
PROFILE GRADE (along centerline roadway)

The Upchurch Group
 architects engineers surveyors
 123 North 15th Street
 Moline, IL 61908
 Phone: 317.233.3177
 License No. 184-005401
 Email: upchurchgroup@upchurchgroup.com

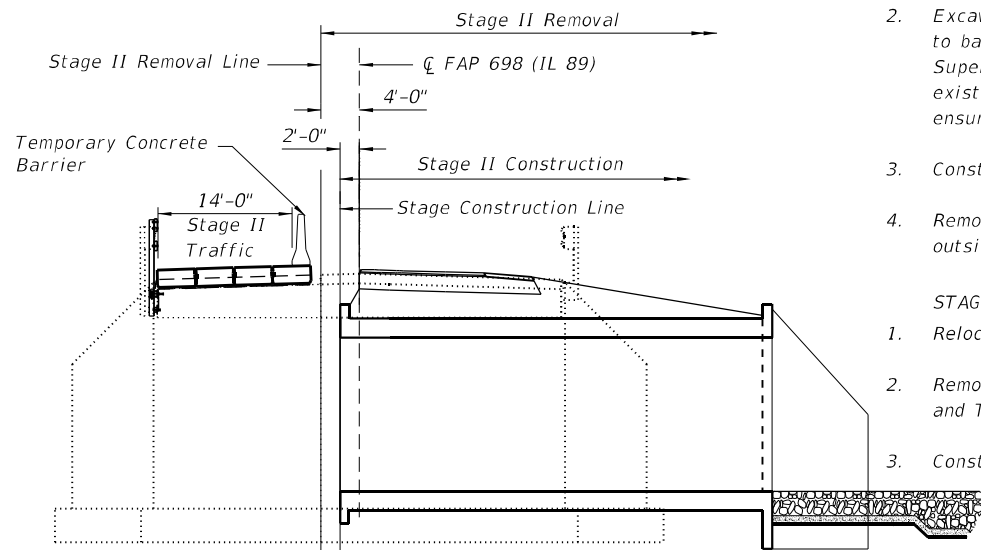
USER NAME	DESIGNED	REVISIONS
= Sta42	- MJS	-
TUG PROJECT NO. 3120032-09	- SAE	-
PLOT SCALE = 20:0,0000 "1" / 1"	- MJS	-
PLOT DATE = 10/14/2022	-	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

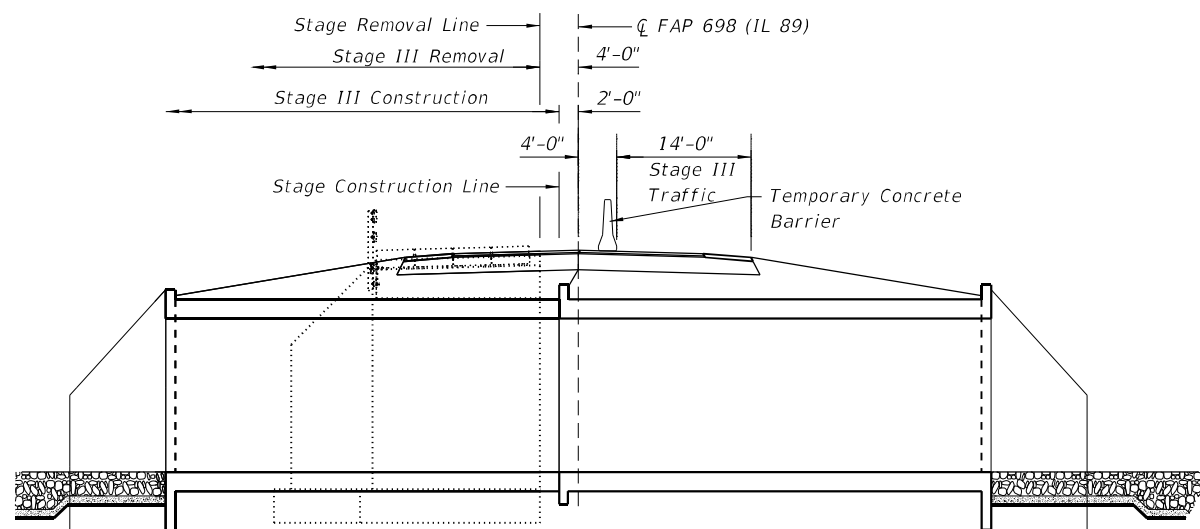
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	87
CONTRACT NO. 68666			ILLINOIS FED. AID PROJECT	



STAGE I



STAGE II



STAGE III

GENERAL NOTES:

1. All staging cross sections are looking South.
2. All dimensions are perpendicular to CL Roadway unless noted otherwise.
3. For details of Temporary Concrete Barrier, See sheet 92 of 124.
4. For quantity of Temporary Concrete Barrier, See Roadway Plans.

STAGE I NOTES:

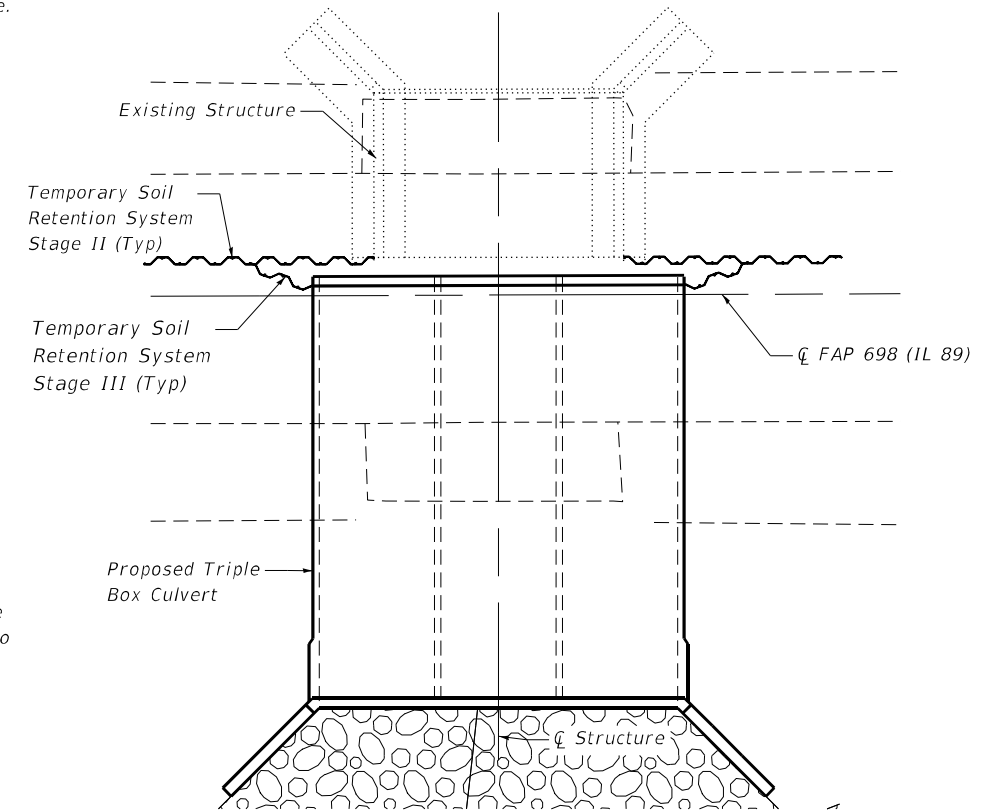
1. Remove existing 5" HMA Surface to expose existing Concrete Deck Slab Surface over a width of 17'-0".
2. Place fabric bearing pads, Temporary PPC Deck Beams, and drill and grout dowel rods into existing concrete deck slab.
3. Remove existing Bridge Rail and replace with Temporary Steel Railing Type SM (Special) for Stage II Traffic.
4. Install Temporary Stage II Soil Retention System.

STAGE II NOTES:

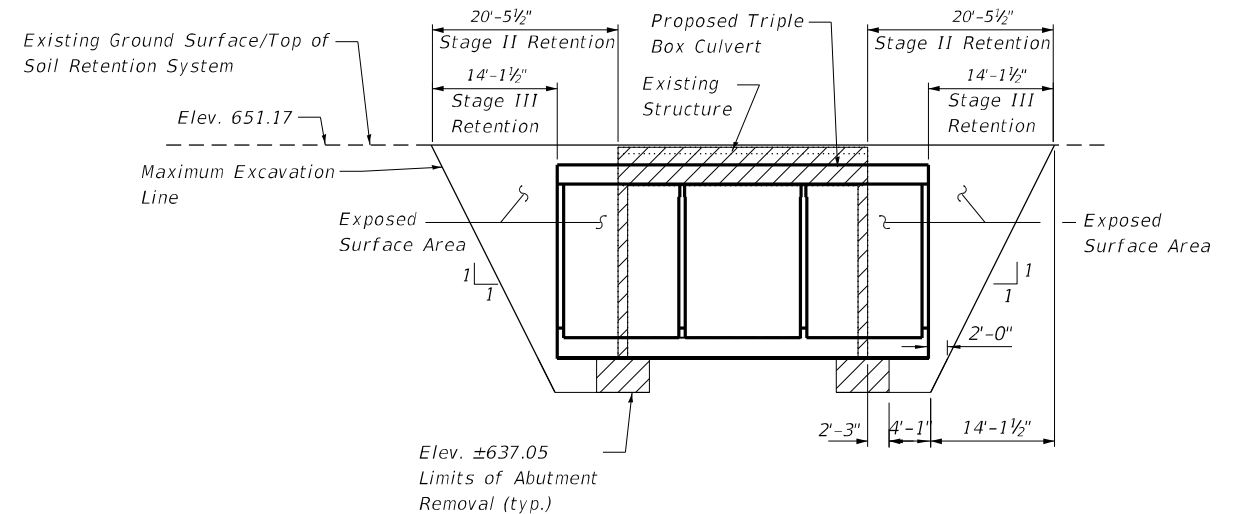
1. Relocate Temporary Concrete Barrier and dowel to PPC Deck Beam.
2. Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing Superstructure. The Contractor shall saw cut the upper portion of the existing abutment at the stage removal line before Stage II removal to ensure the remaining portion will not be prematurely damaged.
3. Construct Stage II portion of Proposed Culvert.
4. Remove and Adjust Temporary Soil Retention System to connect to outside walls of new culvert.

STAGE III NOTES:

1. Relocate Temporary Concrete Barrier.
2. Remove remainder of existing Structure, Temporary PPC Deck Beams and Temporary Steel Railing Type SM (Special).
3. Construct Stage III portion of Proposed Culvert.



STAGE CONSTRUCTION PLAN



ELEVATION - TEMPORARY SOIL RETENTION SYSTEM

(Looking East)

A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

BILL OF MATERIAL

Item	Unit	Total
Temporary Soil Retention System	Sq. Ft.	371

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION
STRUCTURE NO. 078-2011**

SHEET NO. 2 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	88
CONTRACT NO. 68666				

ILLINOIS FED. AID PROJECT

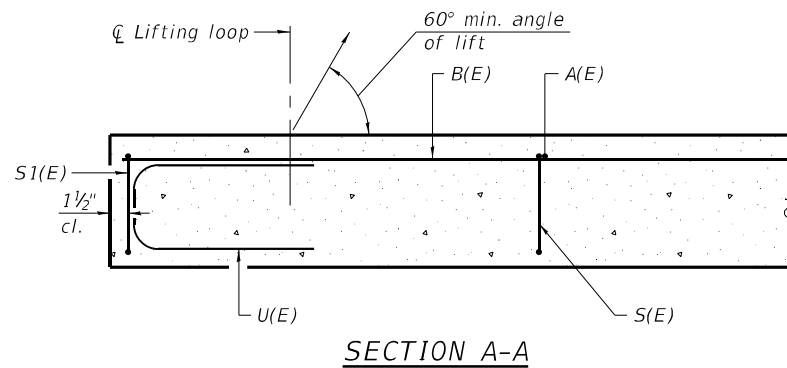
MODEL Default
 FILE Name: P:\dwg\DOT_DIST\PTB 194-035 var PH IL 3120032\VO 9 Combine Clear Creek and CC Trib 3120032-09\CAD Sheets\0782011-68666-002-Stage Construction.dwg
 PLOT DATE = 5/9/2022

The Upchurch Group
 architects engineers surveyors
 123 North 15th Street
 Matteson, IL 61938
 Phone: 217.233.3177
 License No. 184-003401
 Email: upchurchgroup@upchurchgroup.com

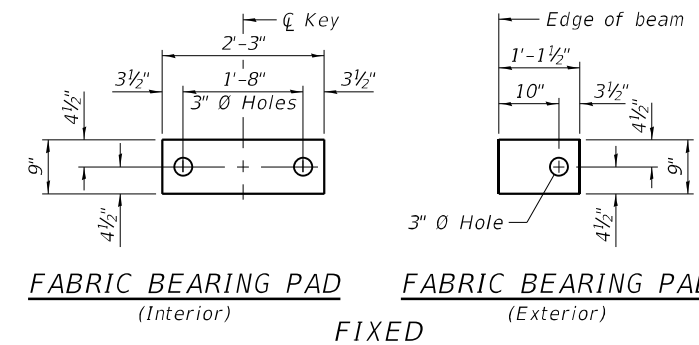
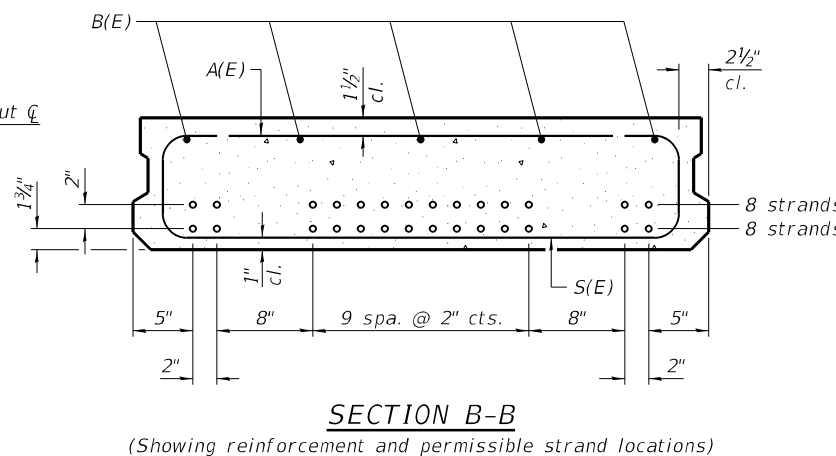
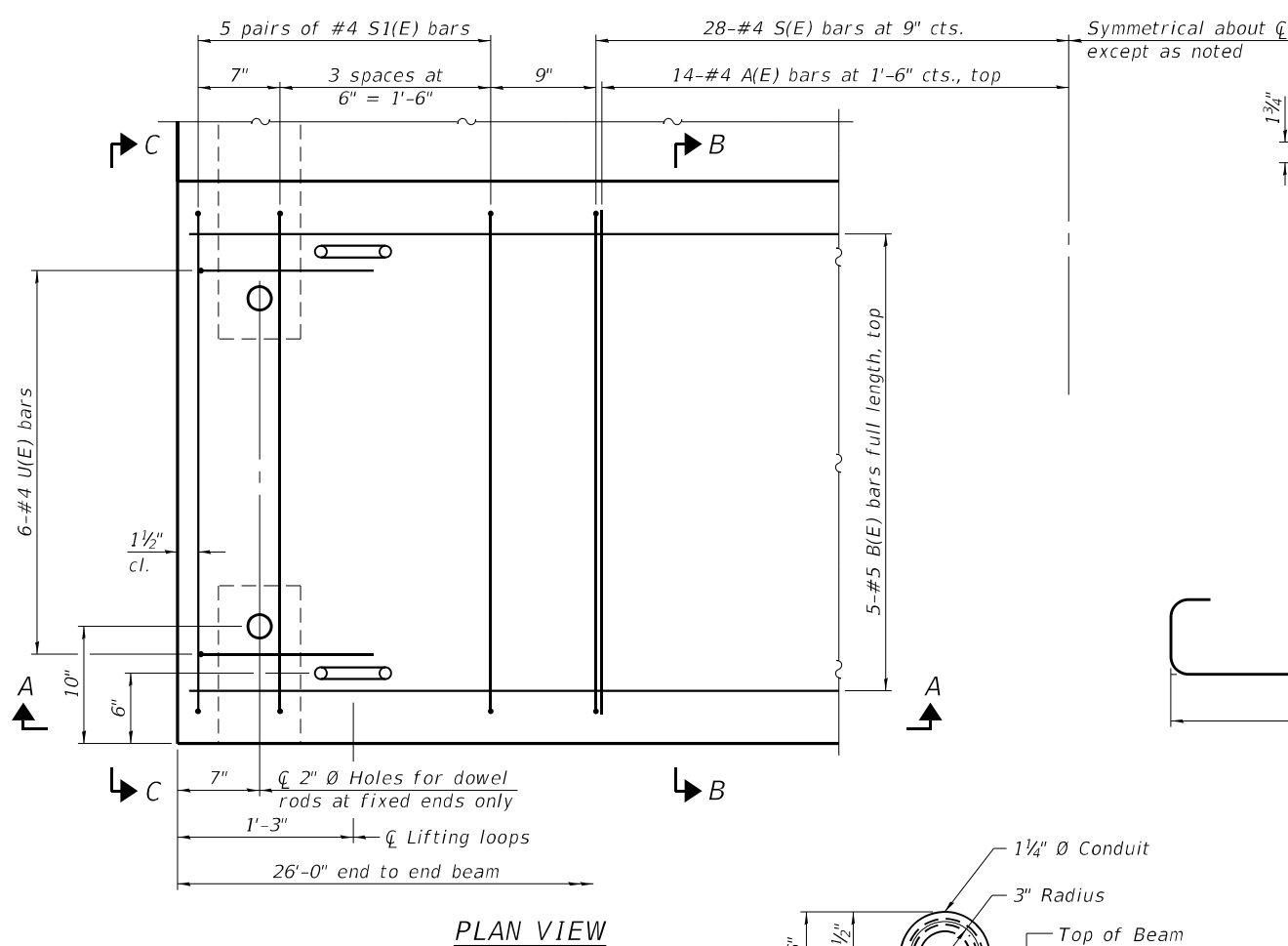
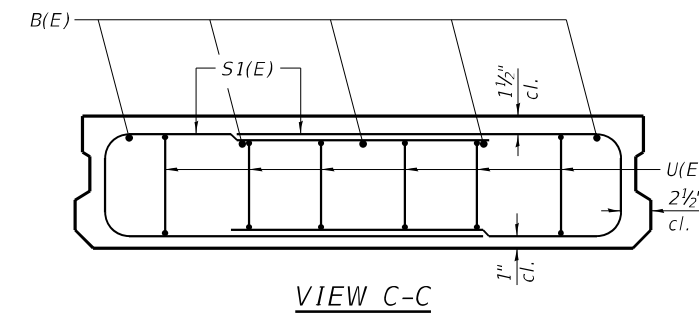
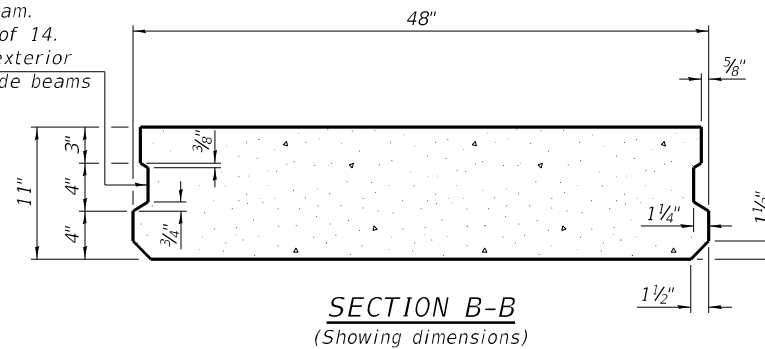
USER NAME = Station 44
 TUG PROJECT NO. 3120032-09
 PLOT SCALE = 20:0,0000 " = 1" / in.
 PLOT DATE = 5/9/2022

DESIGNED - MJS
 DRAWN - SAE
 CHECKED - MJS
 DATE -

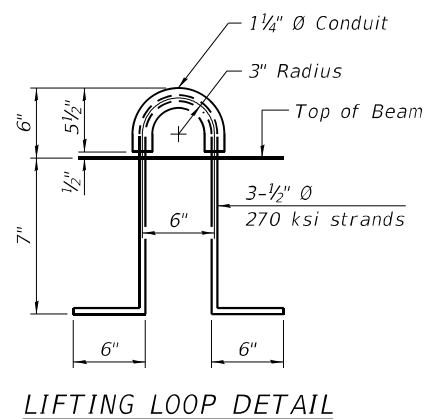
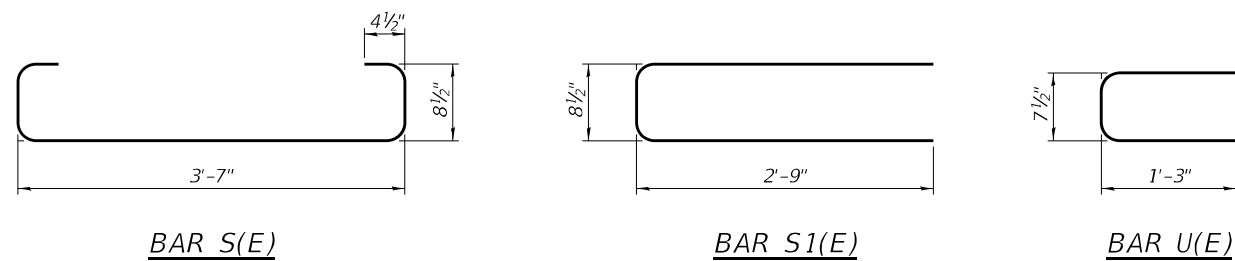
REVISED -
 REVISED -
 REVISED -
 REVISED -



Provide Bar Splicers for Temporary Concrete Barrier on exterior face of outside beam. See Sheet 6 of 14. Omit key on exterior face of outside beams



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



Notes: All bearing pads shall be 1 inch thick. Omit holes when using expansion bearings. Expansion bearing pads shall be bonded to the substructure.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	14	#4	3'-7"	—
B(E)	5	#5	25'-9"	—
S(E)	28	#4	5'-9"	U
S1(E)	20	#4	6'-3"	U
U(E)	12	#4	3'-2"	U

NOTES
Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2 inch and the nominal cross-sectional area shall be 0.153 sq. in. Two 1/8 inch fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. A minimum 2 1/2 inch diameter lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams. Compressive strength of prestressed concrete, f'c, shall be 6000 psi. Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (11" depth)	Sq. Ft.	416
---	---------	-----

MODEL Detail: PD-1148-0 1-1-2020 THE UPCHURCH GROUP ARCHITECTS SURVEYORS 123 North 15th Street Maitland, FL 32751 Phone: 217-233-3177 License No. 184405301 Email: upchurchgroup@upchurchgroup.com

PD-1148-0

1-1-2020

The Upchurch Group
architects engineers surveyors
123 North 15th Street
Maitland, FL 32751
Phone: 217-233-3177
License No. 184405301
Email: upchurchgroup@upchurchgroup.com

USER NAME = Station 44
TUG PROJECT NO. 3120032-09
PLOT SCALE = 0.1667' / in.
PLOT DATE = 5/9/2022

DESIGNED - MJS
DRAWN - SAE
CHECKED - MJS
DATE -

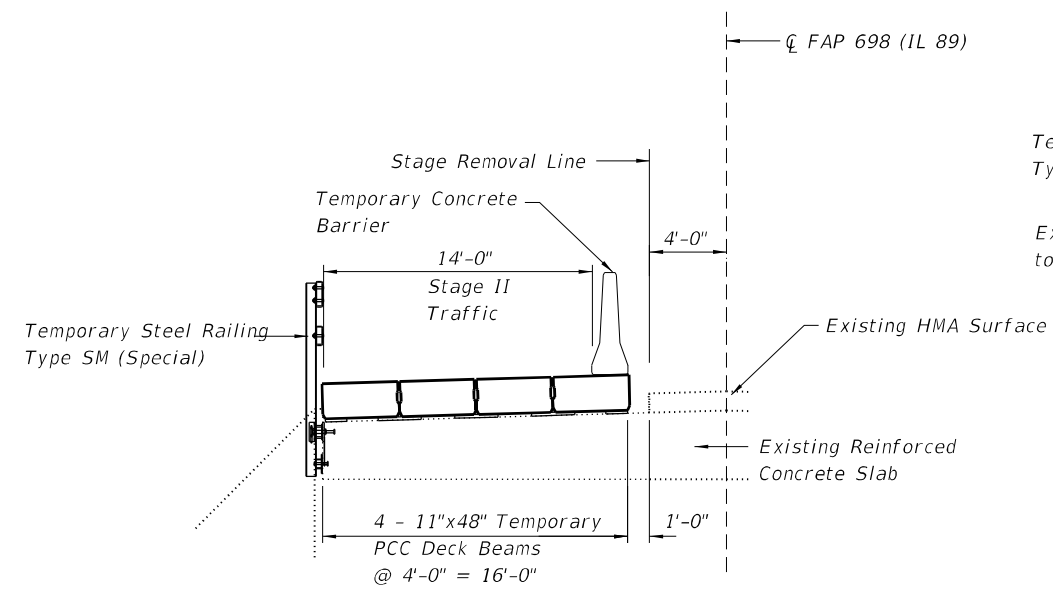
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

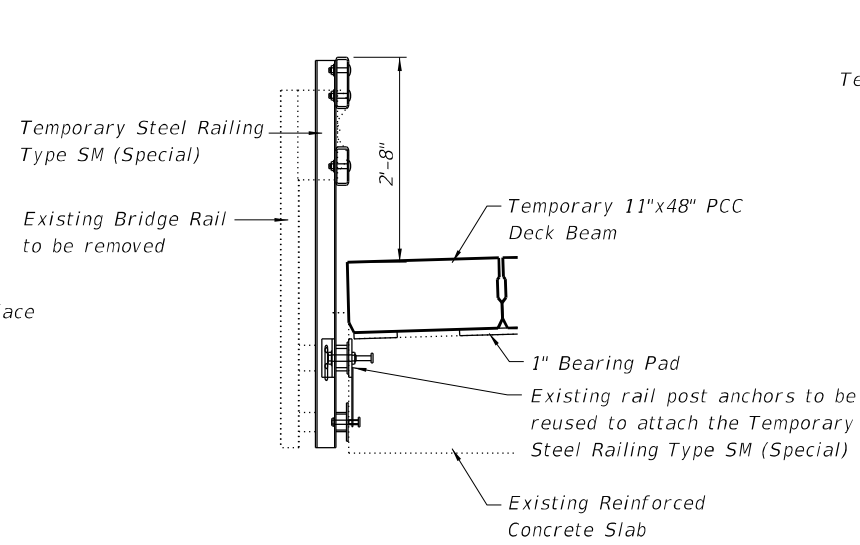
TEMPORARY 11" x 48" PPC DECK BEAM
STRUCTURE NO. 078-2011

SHEET NO. 3 OF 14 SHEETS

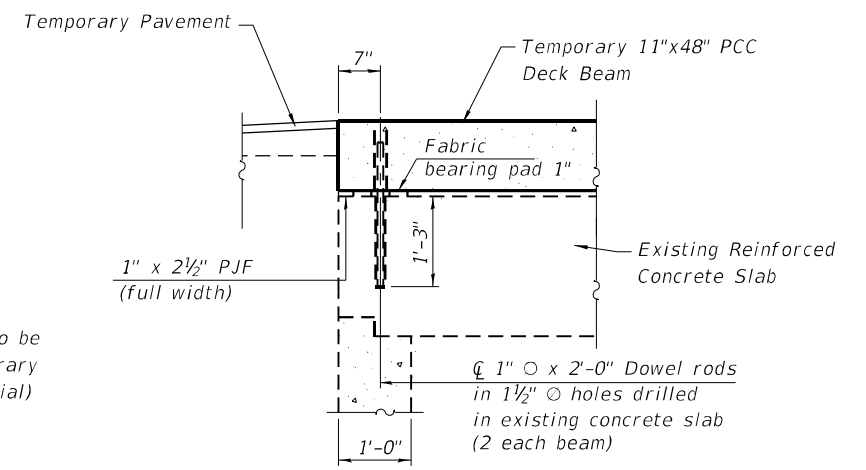
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	89
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68666	



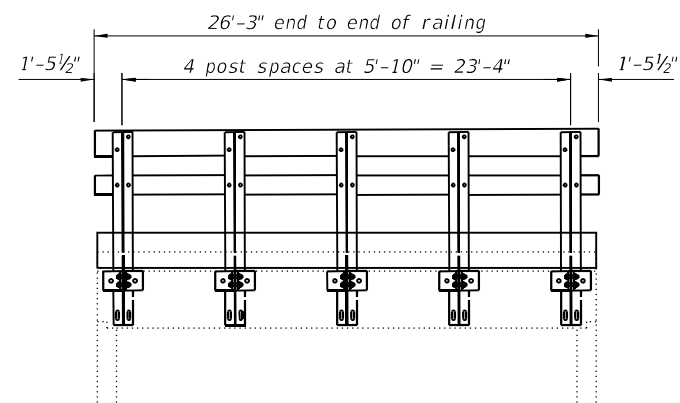
TYPICAL CROSS SECTION



SECTION



ABUTMENT DETAIL



RAIL POST SPACING

(Dimensions to be field verified. By Contractor prior to fabrication)

MODEL Default: The Upchurch Group architects engineers surveyors 123 North 15th Street Maitland, FL 32751 Phone: 212.233.3177 Email: upchurchgroup@upchurchgroup.com
 FILE Name: P:\work\DOT_DIST\PTB 194-035 var PH LI 3120032\WO 9 Combine Clear Creek and CC Trb 3120032-09\CAD_Sheets\0782011-68666-004-Temporary Superstructure Details.dgn

The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 License No. 184603401
 123 North 15th Street
 Maitland, FL 32751
 Phone: 212.233.3177
 Email: upchurchgroup@upchurchgroup.com

USER NAME = Station 44
 TUG PROJECT NO. 3120032-09
 PLOT SCALE = 10:0,0000 " = 1" / in.
 PLOT DATE = 5/9/2022

DESIGNED - MJS
 DRAWN - SAE
 CHECKED - MJS
 DATE -

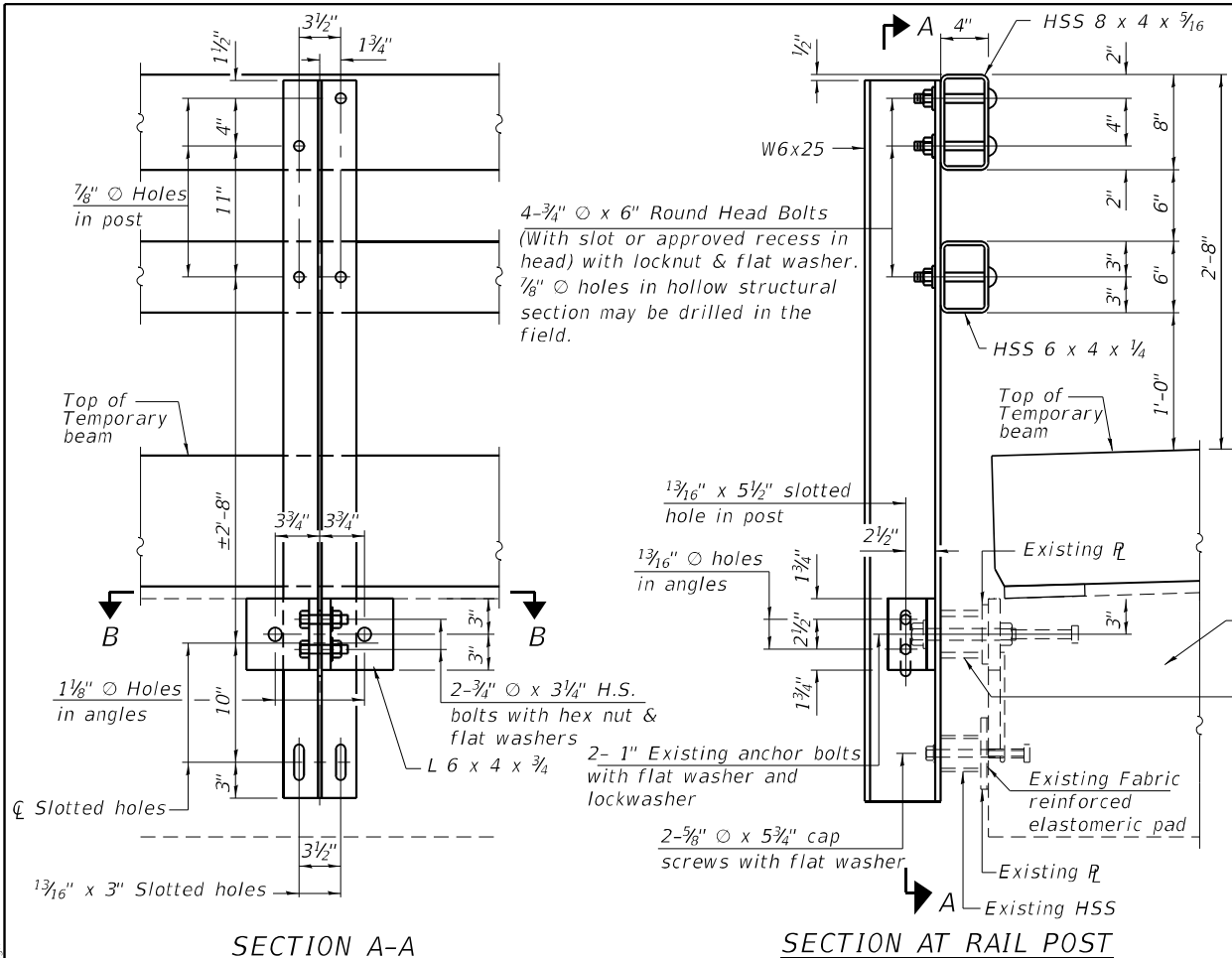
REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY SUPERSTRUCTURE DETAILS
STRUCTURE NO. 078-2011

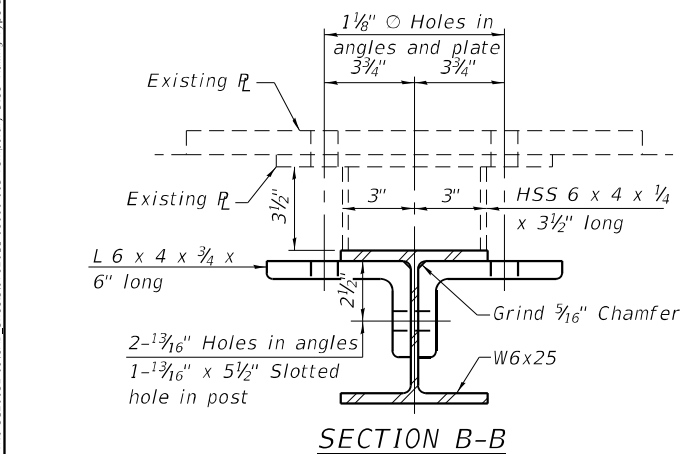
SHEET NO. 4 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	90
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				

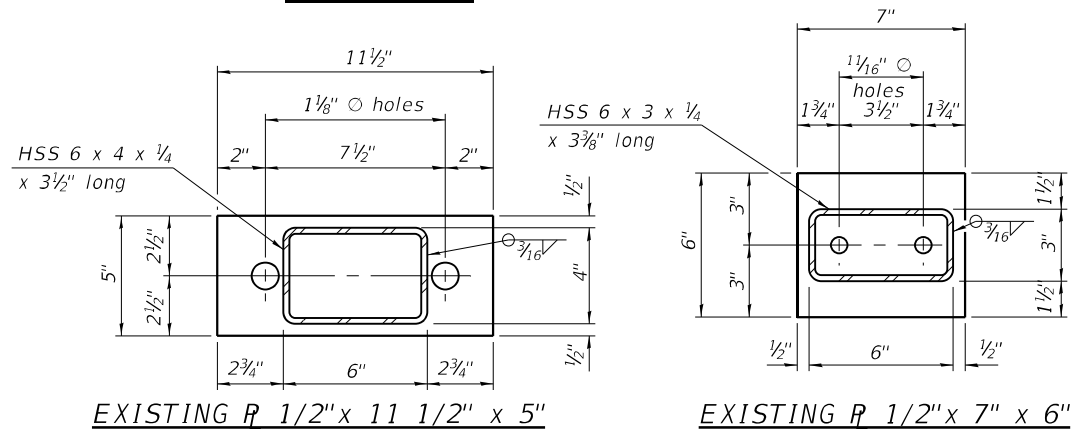


SECTION A-A

SECTION AT RAIL POST



SECTION B-B

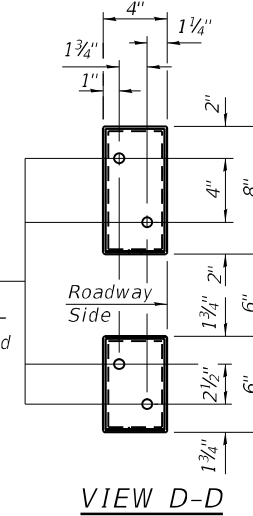


EXISTING R 1/2" x 11 1/2" x 5"

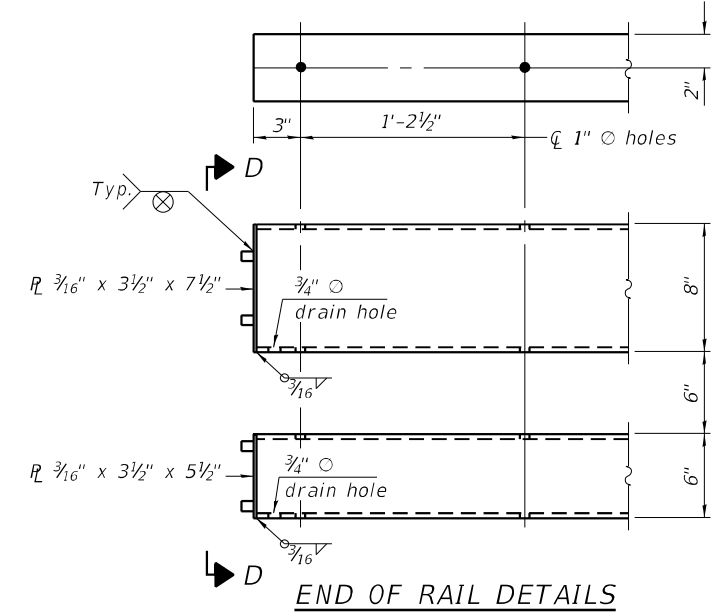
EXISTING R 1/2" x 7" x 6"

(6'-3" Maximum Post Spacing)

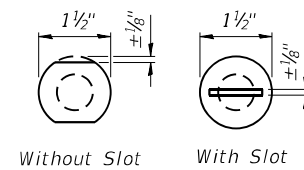
4-5/8" reduced base welded studs. Provide 4-5/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032.



VIEW D-D



END OF RAIL DETAILS



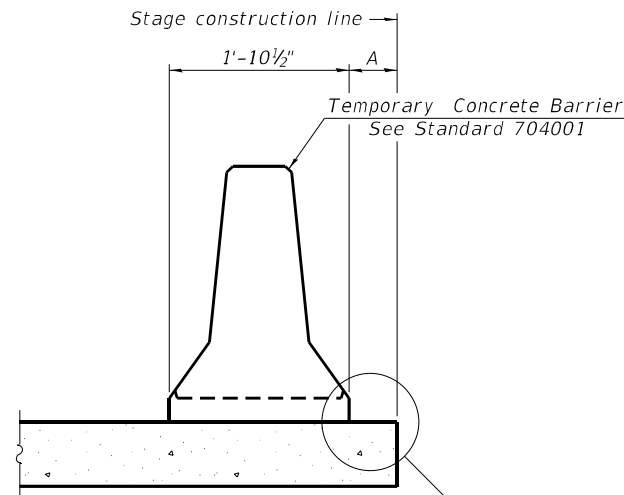
VIEW C-C

DETAIL OF 3/4" Ø ROUND HEAD BOLT

Notes:
 All field drilled holes shall be coated with an approved zinc rich paint before erection.
 All steel rail members shall be galvanized according to Article 509.05 of the Standard Specifications.

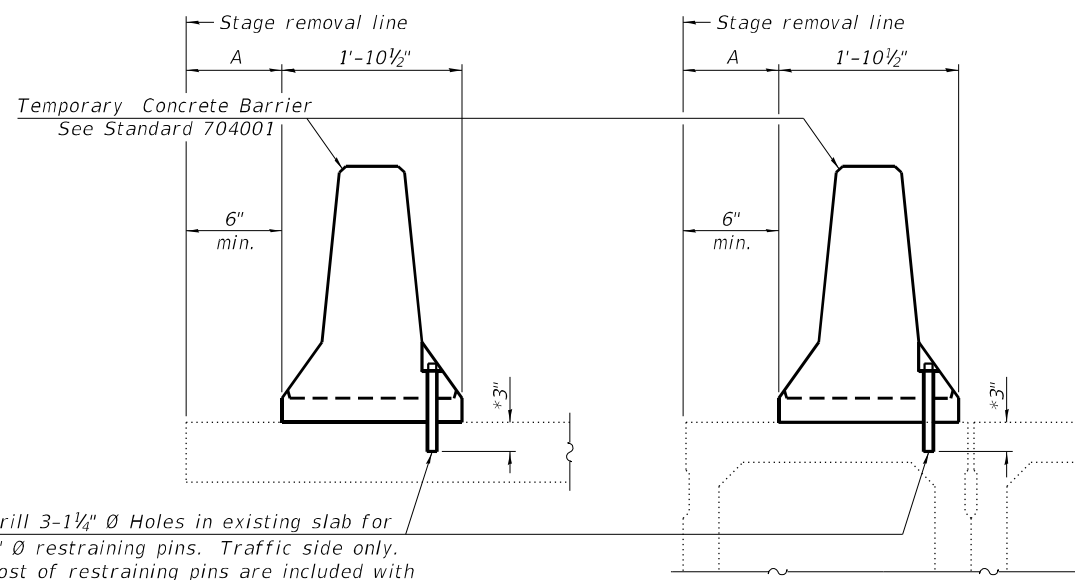
BILL OF MATERIAL

Item	Unit	Quantity
Temporary Steel Railing, Type SM (Special)	Foot	27



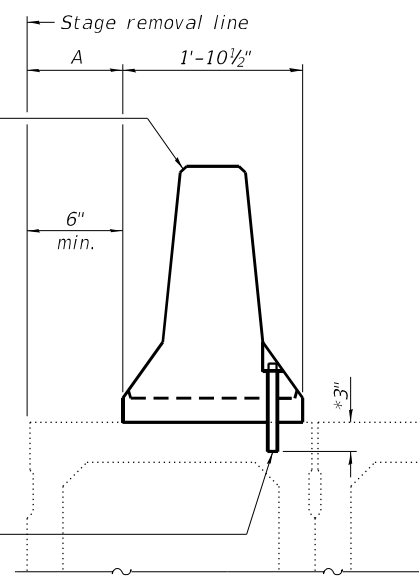
When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



Drill 3-1 1/4" 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".

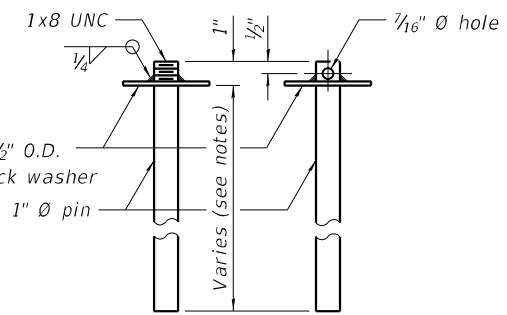
EXISTING SLAB



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

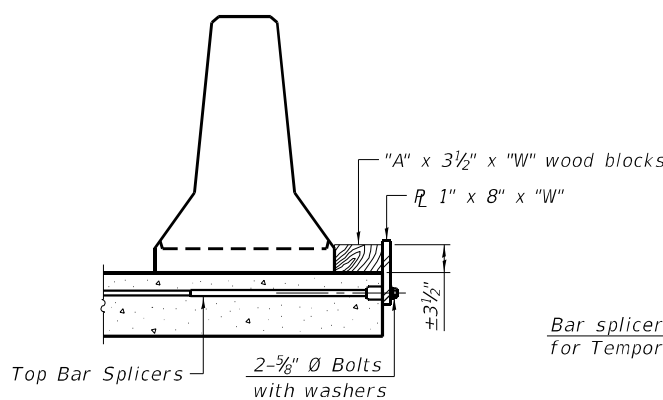
EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

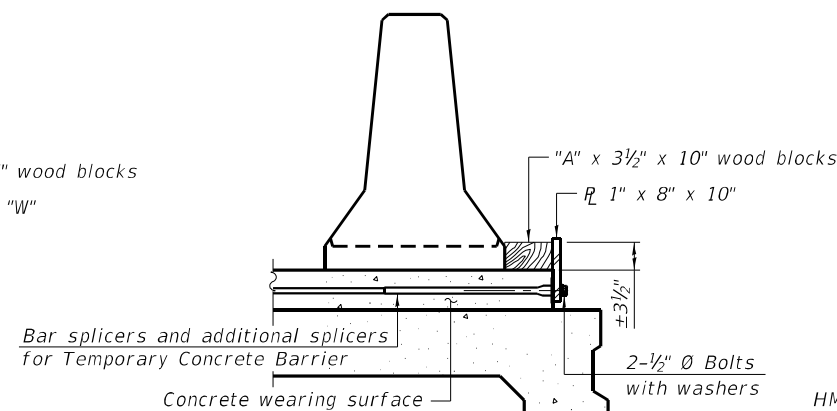


RESTRAINING PIN

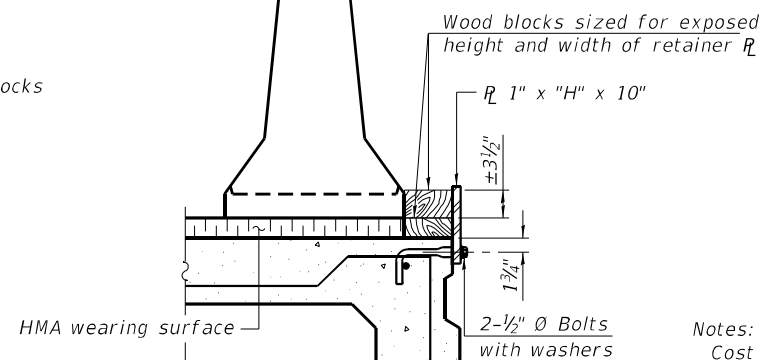
US Std. 1 1/16" I.D. x 2 1/2" O.D. x approx. 8 gauge thick washer



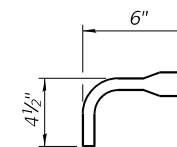
DETAIL I



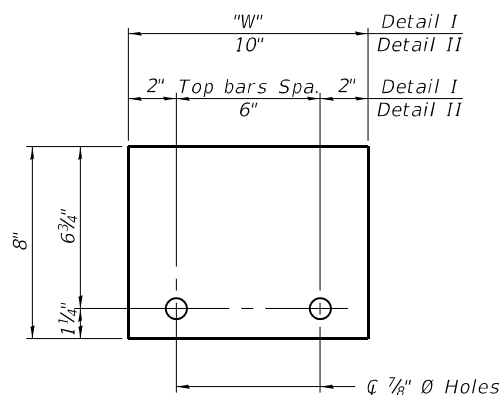
DETAIL II



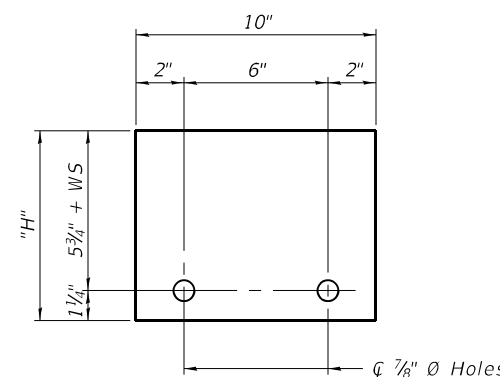
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



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



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

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate \bar{C} 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 1 1/2", 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.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 10-12-2021

MODEL Detail: FILE NAME: P:\dwg\DOT_DIST\PTB 104-035 var PH-11 3120032\WO 9 Combine Clear Crct and CC Trb 3120032-09\CAD_Sheets\0782011-68666-006-TCB.dwg

The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 123 North 15th Street
 Maitland, FL 32751
 Phone: 317-233-3177
 License No. 184605401
 Email: upchurchgroup@upchurchgroup.com

USER NAME = Station 44
 TUG PROJECT NO. 3120032-09
 PLOT SCALE = 8.3333' / in.
 PLOT DATE = 5/9/2022

DESIGNED - MJS
 DRAWN - SAE
 CHECKED - MJS
 DATE -

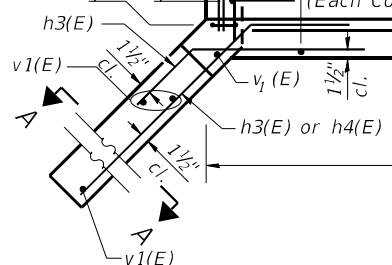
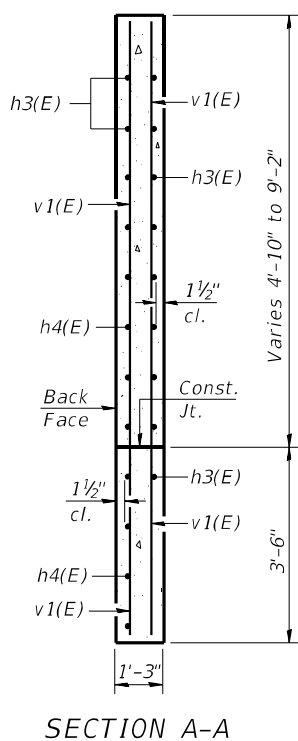
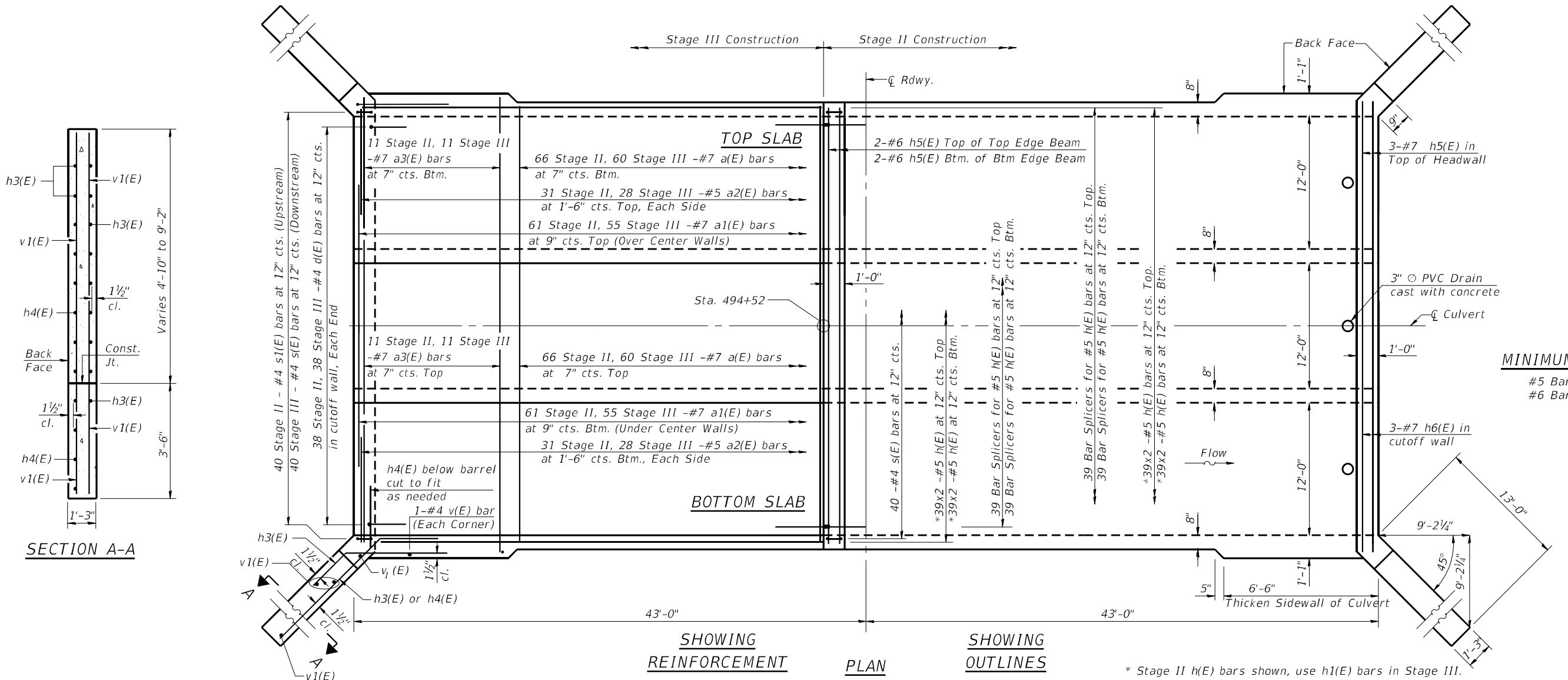
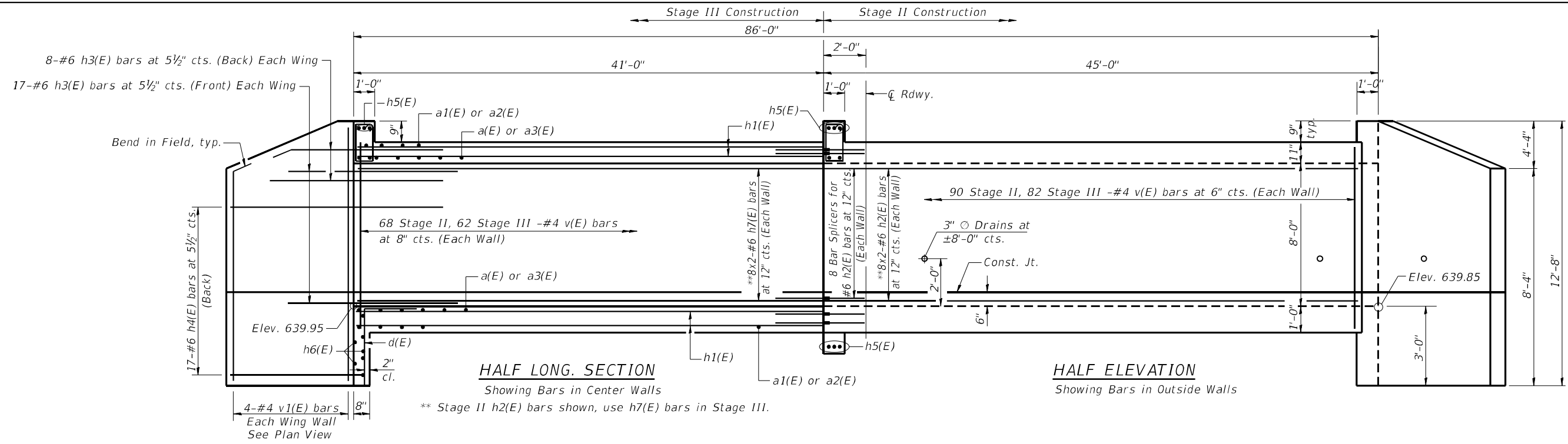
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER
 STRUCTURE NO. 078-2011**

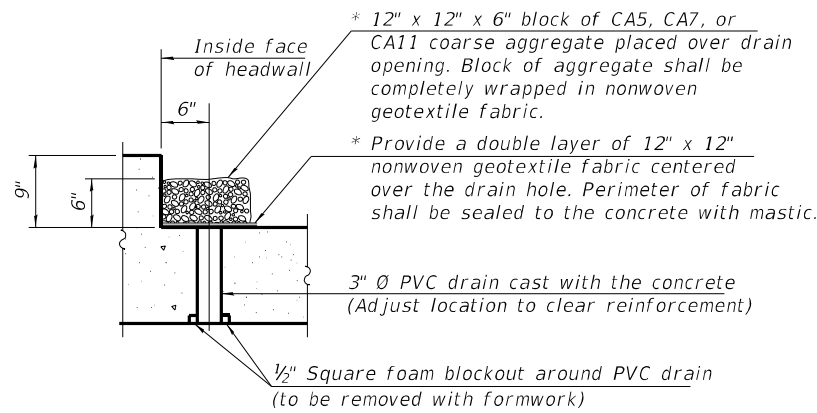
SHEET NO. 6 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	92
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				



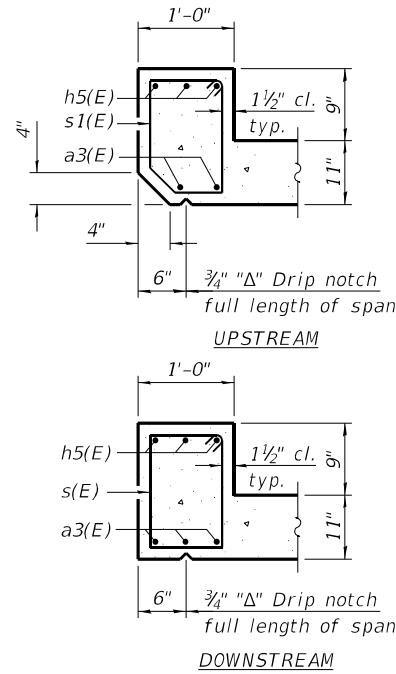
MODEL Default: The Upchurch Group architects engineers surveyors
 USER NAME = Station 44
 TUG PROJECT NO. 3120032-09
 PLOT SCALE = 0.1667' / in.
 PLOT DATE = 5/9/2022
 DESIGNED - MJS
 DRAWN - SAE
 CHECKED - MJS
 DATE -
 REVISED -
 REVISED -
 REVISED -
 REVISED -
 STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
 CULVERT PLAN AND ELEVATION STRUCTURE NO. 078-2011
 SHEET NO. 7 OF 14 SHEETS
 F.A.P. RTE. 698 SECTION (122)BR, BR-1 COUNTY PUTNAM TOTAL SHEETS 124 SHEET NO. 93 CONTRACT NO. 68666 ILLINOIS FED. AID PROJECT

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

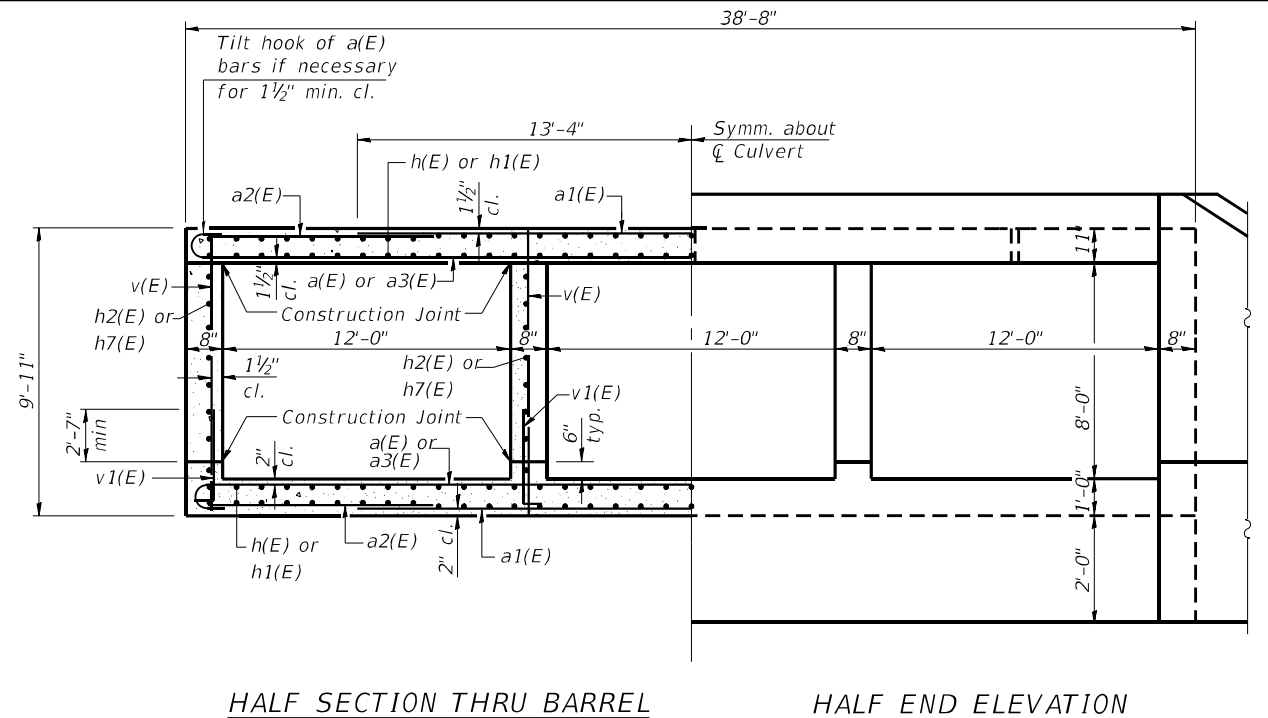


DRAIN DETAIL

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



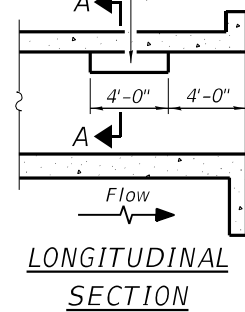
SECTION THRU HEADWALL



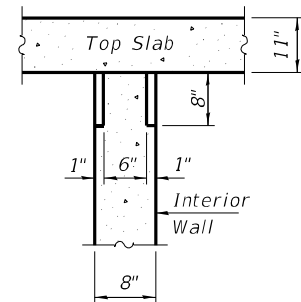
HALF SECTION THRU BARREL

HALF END ELEVATION

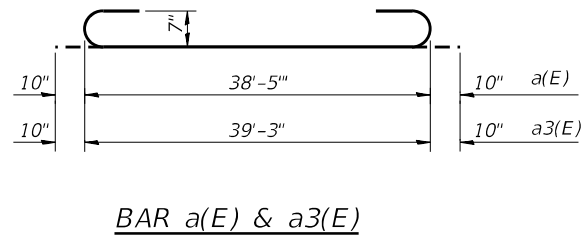
Notch formed by rough finished board attached to and removed with form work, each interior wall. (Do not chamfer).



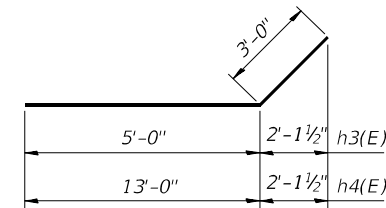
LONGITUDINAL SECTION



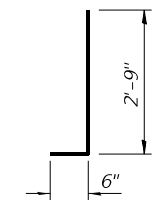
**SECTION A-A
PHOEBE NESTING
SITE DETAILS
(Downstream End Only)**



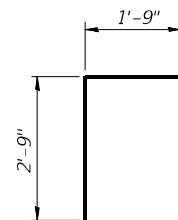
BAR a(E) & a3(E)



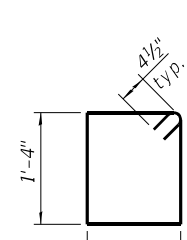
BARS h3(E) & h4(E)



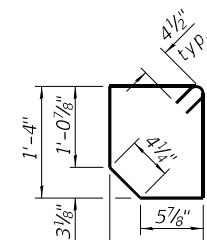
BAR v1(E)



BAR d(E)



BAR s(E)



BAR s1(E)

Notes:
The maximum applied service bearing pressure Qmax is 1600 lb/sq. ft.
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
Bars indicated thus 39x2-#5 etc. indicates 39 lines of bars with 2 lengths per line.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	252	#7	40'-1"	U
a1(E)	232	#7	26'-8"	U
a2(E)	236	#5	8'-5"	—
a3(E)	44	#7	40'-11"	U
d(E)	76	#4	4'-6"	L
h(E)	312	#5	23'-8"	—
h1(E)	312	#5	21'-8"	—
h2(E)	64	#6	23'-11"	—
h3(E)	100	#6	8'-0"	—
h4(E)	68	#6	16'-0"	—
h5(E)	12	#7	38'-4"	—
h6(E)	6	#7	39'-0"	—
h7(E)	64	#6	21'-11"	—
s(E)	80	#4	4'-11"	U
s1(E)	40	#4	4'-9"	U
v(E)	524	#4	9'-7"	—
v1(E)	16	#4	4'-5"	—
Concrete Box Culverts			Cu. Yd.	342
Reinforcement Bars, Epoxy Coated			Pound	68750

MODEL Detail: FILE Name: P:\work\IDOT_DIST\PTB 194-035 var PH-11 3120032\WO 9 Combine Clear Creek and CC Trib 3120032-09\CAD_Sheets\0782011-68666-008-C\Draw Detail.dgn

The Upchurch Group
architects engineers surveyors
Professional Design Firm Corporation
123 North 15th Street
Maitland, FL 32751
Phone: 317.253.3177
License No. 184405301
Email: upchurchgroup@upchurchgroup.com

USER NAME = Station 44
TUG PROJECT NO. 3120032-09
PLOT SCALE = 0.1667' / in.
PLOT DATE = 5/9/2022

DESIGNED - MJS
DRAWN - SAE
CHECKED - MJS
DATE -

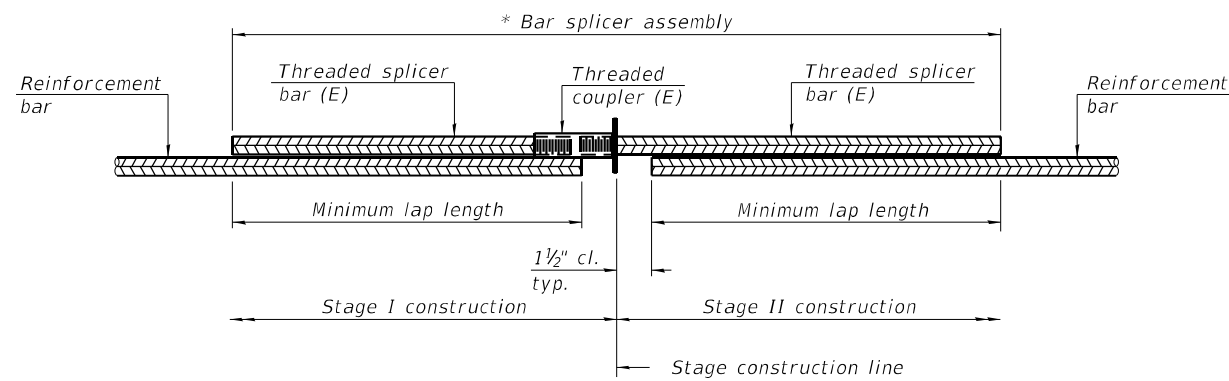
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CULVERT DETAILS
STRUCTURE NO. 078-2011**

SHEET NO. 8 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	94
				CONTRACT NO. 68666
		ILLINOIS	FED. AID PROJECT	



STANDARD BAR SPLICER ASSEMBLY PLAN
(All components shall be provided from one supplier)

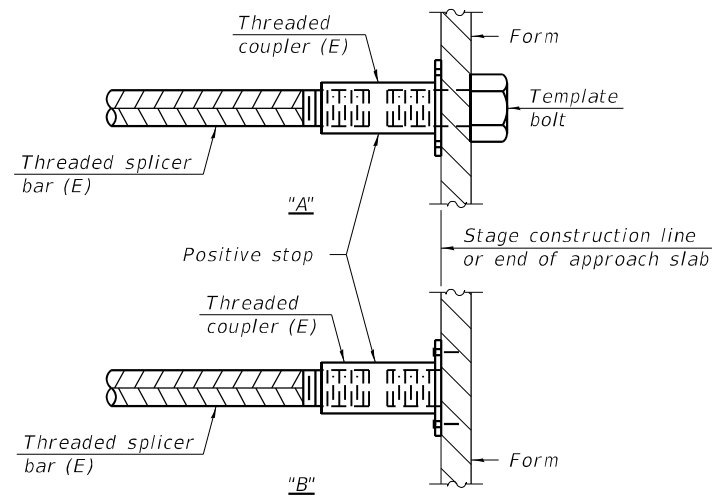
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

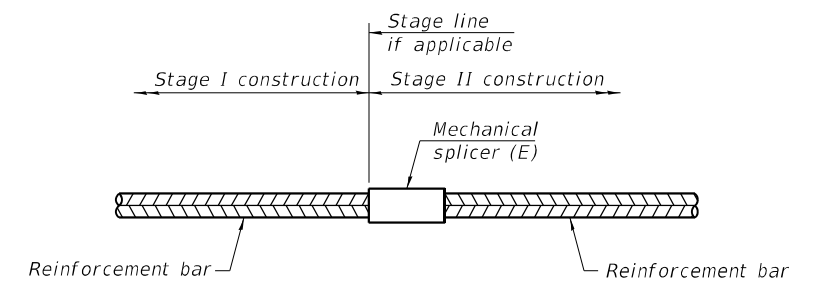
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Bottom Slab	5	78	3
Top Slab	5	78	3
Walls	6	32	3



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.

MODEL Path: J:\120032\W09\Combine\Drawings\0782011-68666-09-9-Br_Splicer_Assembly.dgn
 FILE NAME: P:\C\J\DOT_DIST\DOTB 194-035 var PH-JL 3120032\W09\Combine\Drawings\0782011-68666-09-9-Br_Splicer_Assembly.dgn

BSD-1

1-1-2020

The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 123 North 15th Street
 Maitland, IL 61138
 Phone: 217.235.3177
 License No. 154-003401
 Email: upchurchgroup@upchurchgroup.com

USER NAME = Station 44
 TUG PROJECT NO. 3120032-09
 PLOT SCALE = 8.3333' / in.
 PLOT DATE = 5/9/2022

DESIGNED - MJS
 DRAWN - SAE
 CHECKED - MJS
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 078-2011

SHEET NO. 9 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	95
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				

SOIL BORING LOG

ROUTE IL Route 89 (FAP 698) DESCRIPTION P94-044-06 Structure over Clear Creek LOGGED BY D.P.

SECTION (122)BR-1 LOCATION 1.4 Mile North of IL Route 18

COUNTY Putnam DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. Prop. 078-2011, Exis. 078-0025
Station IL-89

BORING NO. B-3
Station 494+72
Offset 16.00ft RT
Ground Surface Elev. 650.80 ft

DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	MOISTURE (%)
0				AGGREGATES 4" DARK BROWN CLAY FILL	0			
2					7			
4		26.0			10	5.2	13.0	
4					11	B		
2					4			
3		27.0			12	4.6	13.0	
4					15	B		
5								
3				BLACK/BROWN Organic CLAY FILL	5			
4		31.0			7	5.8	13.0	
5					12	B		
2					2			
2		27.0		BROWN SAND SEAMS	8	1.9	18.0	
2				STIFF to HARD gray SILTY CLAY damp	9	S		
2								
4				HARD gray SILTY CLAY LOAM damp trace GRAVEL				
6		5.4	13.0					
7		B						
1				MEDIUM DENSE SAND wet	2			
4					8	4.0	16.0	
10					10	P		
5				HARD gray CLAY LOAM to SILTY CLAY LOAM damp	4			
10		5.6	13.0					
13		S						
5					4			
15		4.5	12.0		13	4.5	13.0	
25		P			15	P		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

SOIL BORING LOG

ROUTE IL Route 89 (FAP 698) DESCRIPTION P94-044-06 Structure over Clear Creek LOGGED BY D.P.

SECTION (122)BR-1 LOCATION 1.4 Mile North of IL Route 18

COUNTY Putnam DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. Prop. 078-2011, Exis. 078-0025
Station IL-89

BORING NO. B-3
Station 494+72
Offset 16.00ft RT
Ground Surface Elev. 650.80 ft

DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	MOISTURE (%)
0				HARD gray SILTY CLAY LOAM damp trace GRAVEL	0			
4					4			
14		9.0	12.0		14	9.0	12.0	
18		B			18	B		
10					10			
25		6.5	12.0	VERY DENSE gray medium SAND moist	25	6.5	12.0	
51/5"		S		End of Boring	51/5"	S		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

MODEL Default: \\p01\work\104-035\104-035.dwg; 104-035.dwg; PH-IL-3120032\VO 9 Combine Clear Creek and CC Trib 3120032-09\CAD_Sheets\0782011-68666-012-Soil Boring B-3.dwg

No existing bridge,
 B.M. #69.5 & W 10 Willow 110'
 Rt. Sta 494+15: Elev 153.33

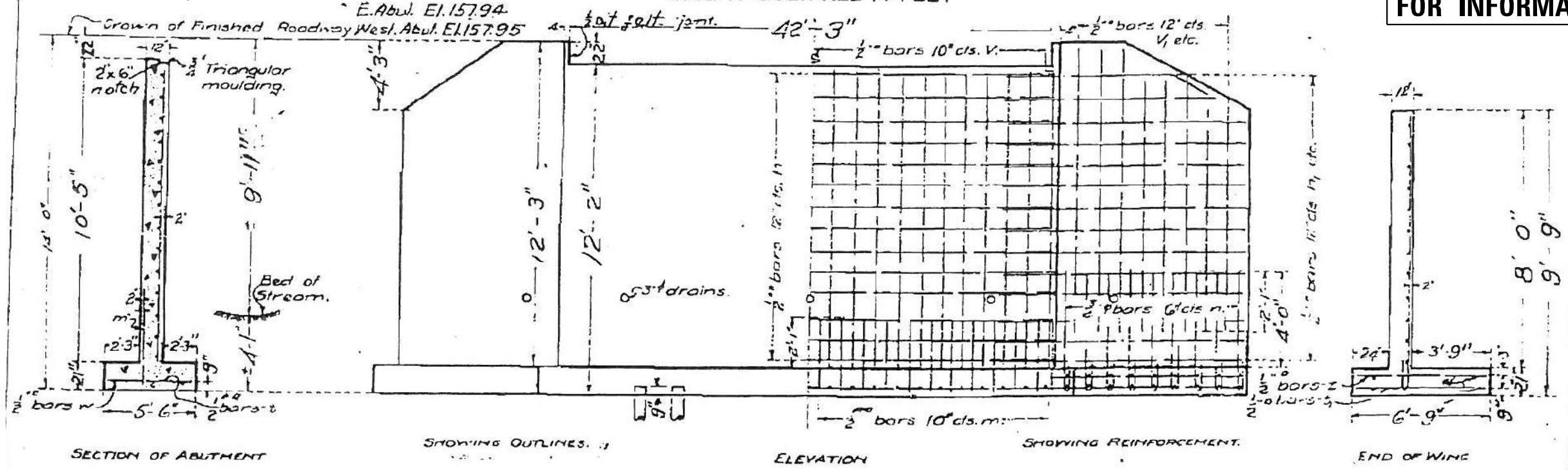
STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS
 DIVISION OF HIGHWAYS

BOND ISSUE ROUTE NO.	COUNTY	SEC.	TOTAL SHEETS	SHEET NO.
89	Putnam	122B	35	32

Sheet No 2
 2 Sheets.

R.C. ABUTMENTS FOR SLAB BRIDGE
 HEIGHT OVER ALL 14 FEET

FOR INFORMATION ONLY

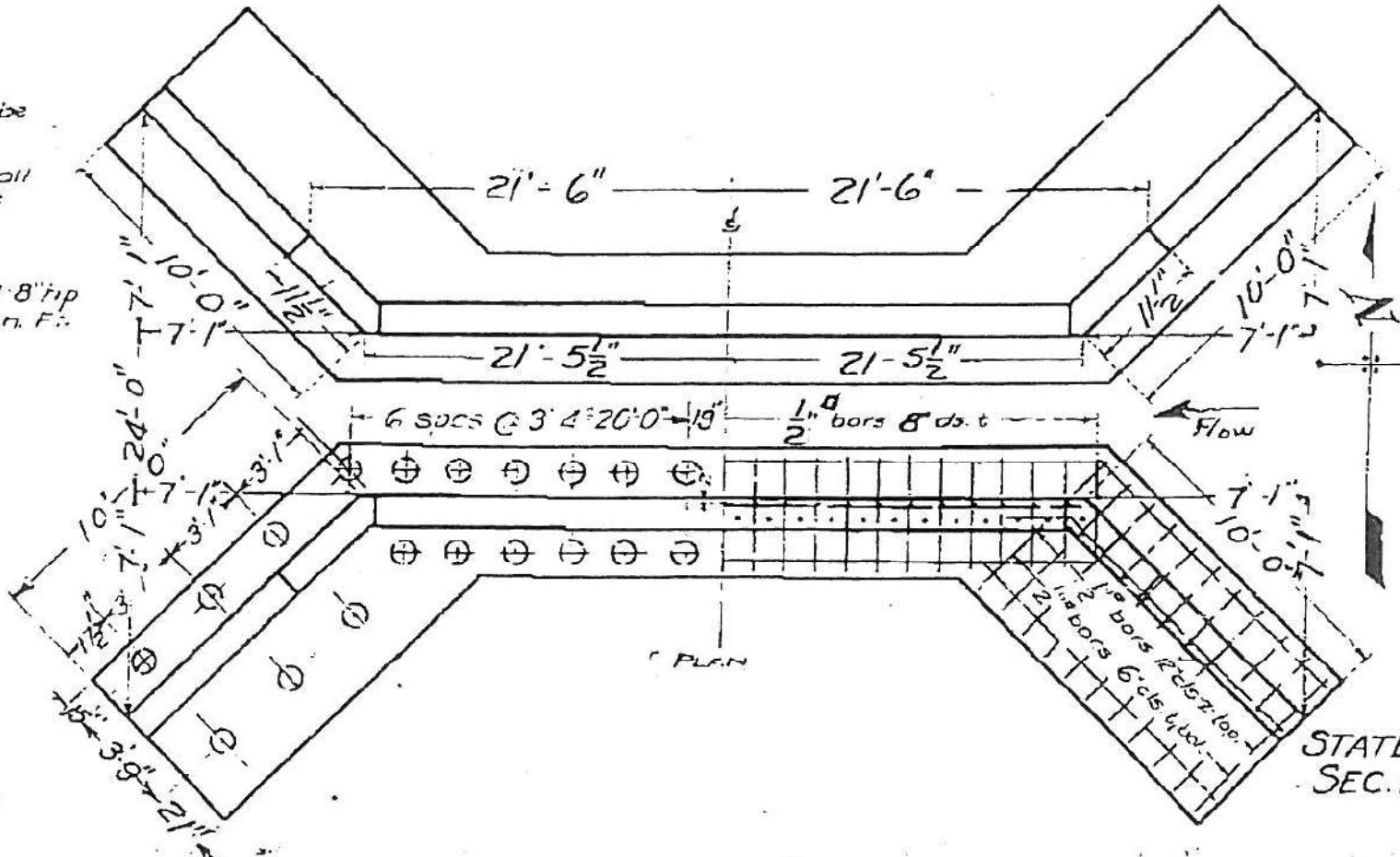


Class A concrete shall be used throughout.
 Proportions: 2 1/2 : 3
 All reinforcing steel shall be securely wired in place before concrete is poured.

10 Ton Piles 10" bull 8" tip
 76 Req. 1140' lin. F.

DESIGNED - H.P.D./J.H.H.
CHECKED - E.D. LUDWIG
DRAWN - J.H.P.
CHECKED - H.P.D.
APPROVED - J.H.P.
CHECKED - J.H.P.

DATE: Jan 14, 28
 [Signatures]



BILL OF MATERIAL.

Bars	No	Size	Length
V	102	1/2"	10'-3"
VI	4	3/4"	18'-0"
VII	8	3/4"	9'-0"
VIII	16	1/2"	7'-6"
VIIII	12	1/2"	6'-0"
X	44	3/4"	22'-6"
XI	36	3/4"	11'-6"
XII	8	3/4"	8'-6"
XIII	80	3/4"	7'-0"
XIV	132	3/4"	5'-3"
XV	38	3/4"	6'-6"
XVI	40	1/2"	6'-6"
XVII	12	3/4"	16'-0"
XVIII	16	3/4"	10'-6"
XIX	102	3/4"	3'-0"

Reinforcing Steel: Lbs. 5100
 Concrete Cu. Yds 95.3

STATE BOND ISSUE RT. 89
 SEC. 122B PUTNAM CO.
 STA 494+52

MODEL: Default; FILE NAME: P:\work\DOT_DIST\PTB 194-035 var PH LI 3120032\NO 9 Combine Clear Creek and CC Trb 3120032-00-CAD_Sheets\0782011-68666-013-Existing Structure-Abutments.dgn

The Upchurch Group
 architects engineers surveyors
 123 North 15th Street
 Madison, IL 61738
 Phone: 217-253-3177
 License No. 184-003401
 Email: upchurchgroup@upchurchgroup.com

USER NAME = Station 44	DESIGNED - MJS	REVISIONS
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISIONS
PLOT SCALE = 0.1667' / in.	CHECKED - MJS	REVISIONS
PLOT DATE = 5/9/2022	DATE	REVISIONS

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE - ABUTMENTS
 STRUCTURE NO. 078-2011

SHEET NO. 13 OF 14 SHEETS

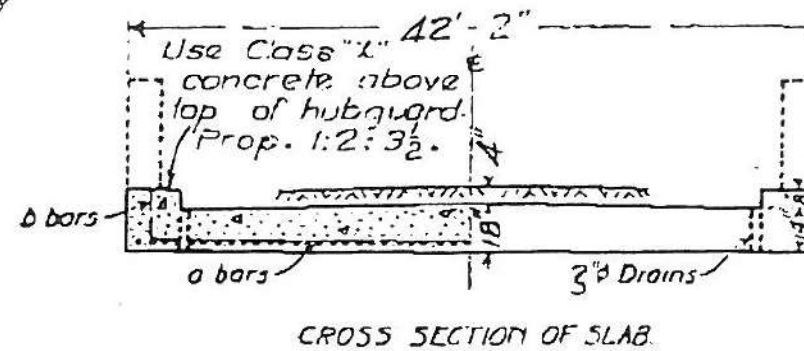
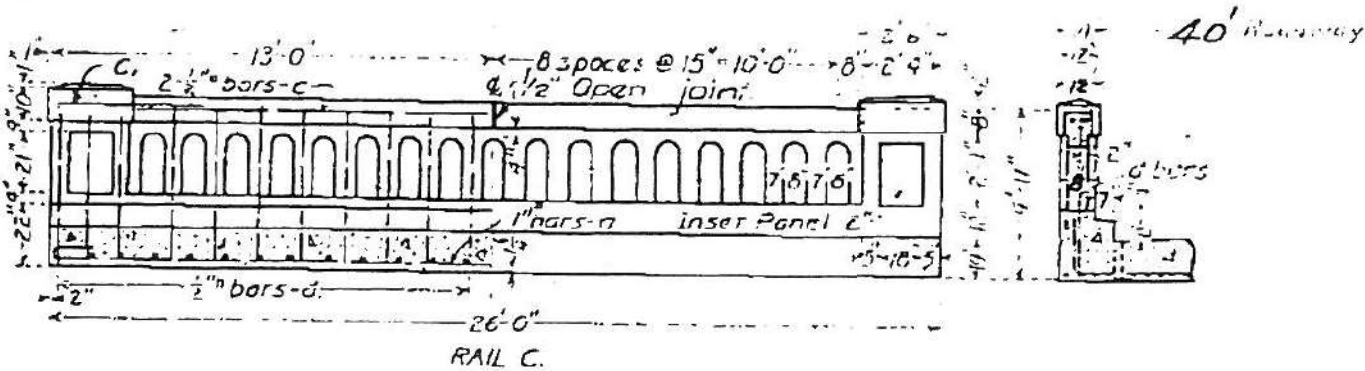
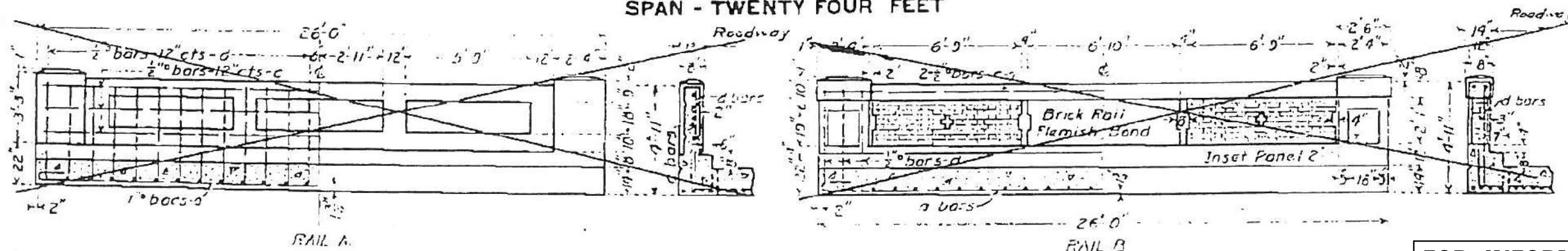
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	99
CONTRACT NO. 68666				

ILLINOIS FED. AID PROJECT

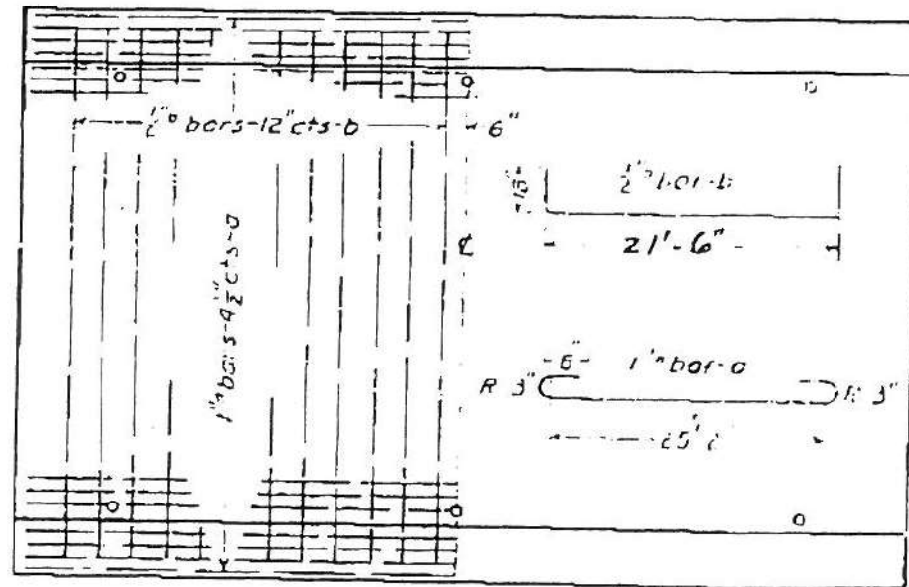
BOND ISSUE ROUTE NO.	COUNTY	SEC.	TOTAL SHEETS	SHEET NO.
89	Putnam	122B	35	32

Sheet No 1
2 Sheets

REINFORCED CONCRETE SLAB
SPAN - TWENTY FOUR FEET



FOR INFORMATION ONLY



PLAN

BILL OF MATERIAL

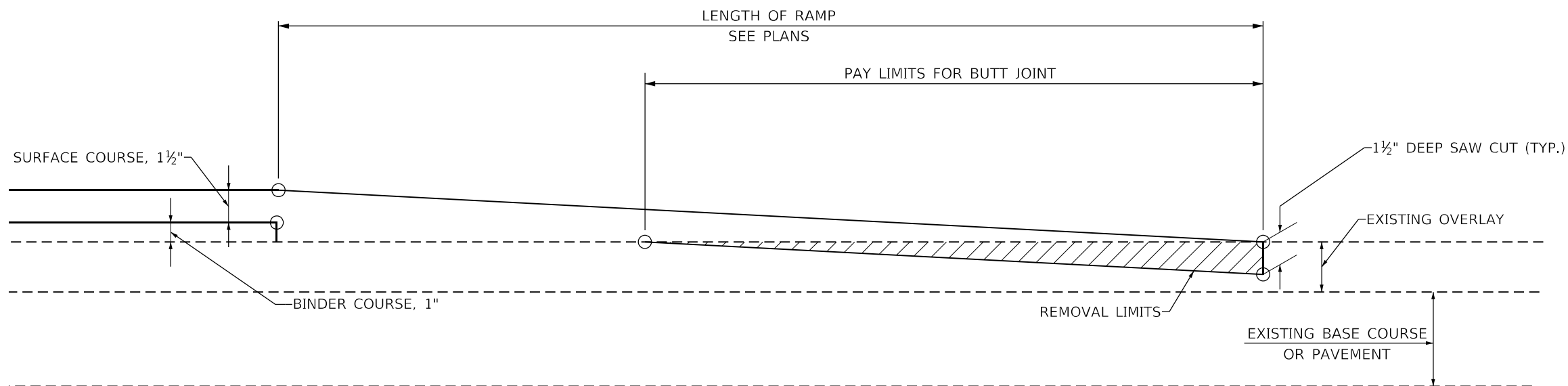
	16 FT. ROADWAY	18 FT. ROADWAY	20 FT. ROADWAY	24 FT. ROADWAY	40 FT. ROADWAY
RAIL A	Bars No. Size Length a 58 1" 28'-0" b 29 1/2" 20'-0" c 6 1/2" 25'-6" d 52 1/2" 9'-6"	Bars No. Size Length a 53 1" 28'-0" b 29 1/2" 22'-0" c 6 1/2" 25'-6" d 52 1/2" 9'-6"	Bars No. Size Length a 58 1" 28'-0" b 29 1/2" 24'-0" c 6 1/2" 25'-6" d 52 1/2" 9'-6"	Bars No. Size Length a 59 1" 28'-0" b 29 1/2" 28'-0" c 6 1/2" 25'-6" d 52 1/2" 9'-6"	Bars No. Size Length a 85 1" 28'-0" b 48 1/2" 18'-0" c 6 1/2" 25'-6" d 52 1/2" 9'-6"
RAIL B	Steel-Lbs 5310 Concrete-Cu Yds 287	Steel-Lbs 5020 Concrete-Cu Yds 304	Steel-Lbs 6390 Concrete-Cu Yds 329	Steel-Lbs 7470 Concrete-Cu Yds 378	Steel-Lbs 9160 Concrete-Cu Yds 452
RAIL C	Steel-Lbs 5110 Concrete-Cu Yds 266 Brick Rail-Cu Yds 2.0	Steel-Lbs 5630 Concrete-Cu Yds 291 Brick Rail-Cu Yds 2.0	Steel-Lbs 6150 Concrete-Cu Yds 319 Brick Rail-Cu Yds 2.0	Steel-Lbs 7270 Concrete-Cu Yds 369 Brick Rail-Cu Yds 2.0	Steel-Lbs 8960 Concrete-Cu Yds 437 Brick Rail-Cu Yds 2.0
RAIL	Steel-Lbs 5230 Concrete-Cu Yds 279	Steel-Lbs 5780 Concrete-Cu Yds 299	Steel-Lbs 6270 Concrete-Cu Yds 329	Steel-Lbs 7400 Concrete-Cu Yds 372	Steel-Lbs 11870 Concrete-Cu Yds 555 Concrete-Cu Yds 2.0 Name Plate 1 4 Flava. Sq. Yds. 52.0

Use class A concrete below top of hubguard
Proportions-1 2 1/2 4
USE RAIL C 40 FT. ROADWAY

COMPUTED	Walter J. Ladd
CHECKED	Don Lake
DRAWN	AB Thurner
CHECKED	A. K. ...
ASSEMBLED	...
CHECKED	...

EXAMINED Jan 14 1928
W. J. ...
APPROVED ...
Frank ...

STATE BOND ISSUE ROUTE 89.
SEC. 122-B PUTNAM CO.
STA. 494+52.



TIE - INTO EXISTING HOT-MIX ASPHALT & TEMPORARY RAMPS



TABLE A
(LENGTHS AND TAPER RATES)

ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
LENGTH OF BUTT JOINT	60' (18.0 M)	30'(9.0 M)
TEMPORARY RAMP TAPER RATE	1:80	1:40
TEMPORARY RAMP LENGTH	10'(3.0 M)	5'(1.5 M)

GENERAL NOTES

1. The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
2. The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
3. The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.05.

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

MODEL: D:\p\h\11 3120032\W0 9 Combine Clear Creek and CC Trib 3120032-09\CAD_Sheets\1468665-sh-c01 STANDARD05.dgn
 FILE NAME: P:\C\p\11 3120032\W0 9 Combine Clear Creek and CC Trib 3120032-09\CAD_Sheets\1468665-sh-c01 STANDARD05.dgn
 PLOT DATE: 5/10/2022

The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 123 North 15th Street
 Moline, IL 61438
 Phone: 312.255.3177
 License No. 154-003401
 e-mail: upchurchgroup@upchurchgroup.com

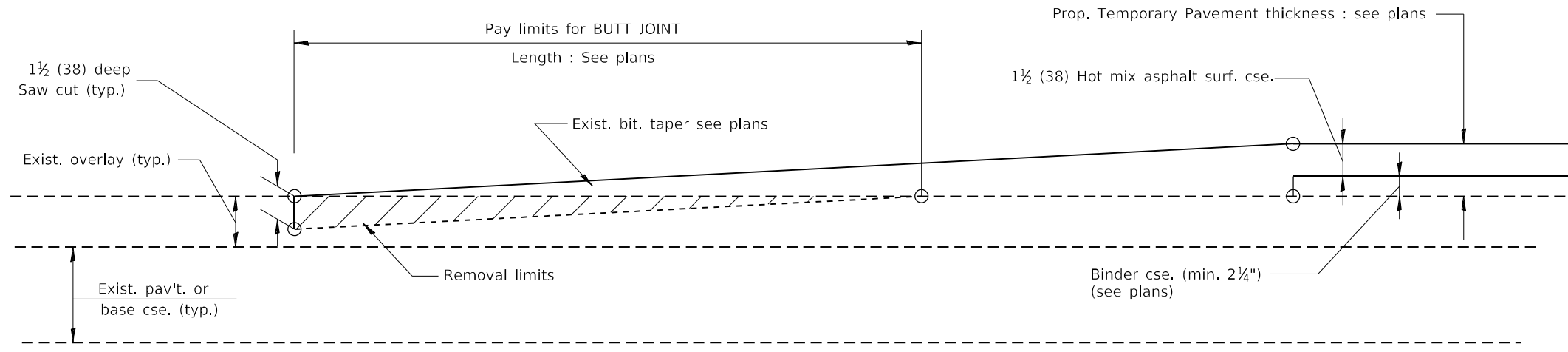
USER NAME = Station 44	DESIGNED - MJS	REVISED -
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISED -
PLOT SCALE = 100:0.0000 " = 1" / in.	CHECKED - MJS	REVISED -
PLOT DATE = 5/10/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINTS
ILLINOIS ROUTE 89 OVER CLEAR CREEK

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	101
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				



NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER

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

MODEL: D:\p\h\...
 FILE NAME: P:\C\...
 IDOT DISTRICT 194-035 var PH JH 3120032\WO 9 Combine Clear Creek and CC Trib 3120032-09\CAD_Sheets\168666-sh-c01 STANDARD05.dgn

The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 License No. 184-003401
 123 North 15th Street
 Moline, IL 61438
 Phone: 312.255.3177
 e-mail: upchurchgroup@upchurchgroup.com

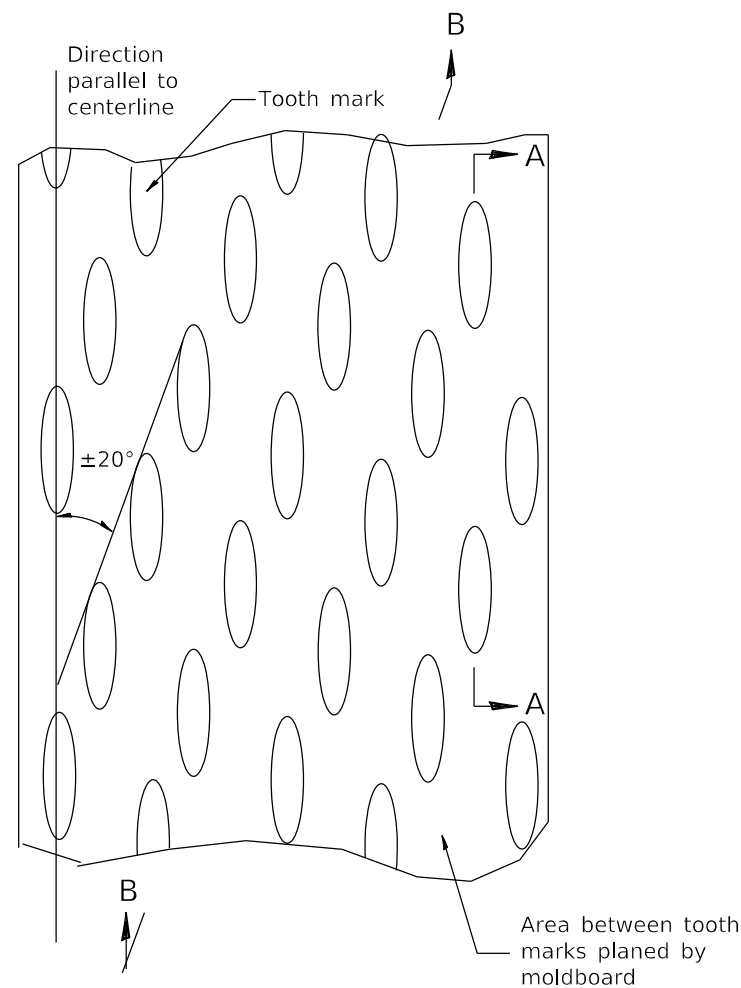
USER NAME = Station 44	DESIGNED - MJS	REVISED -
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISED -
PLOT SCALE = 100:0.0000 " = 1" / in.	CHECKED - MJS	REVISED -
PLOT DATE = 5/10/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

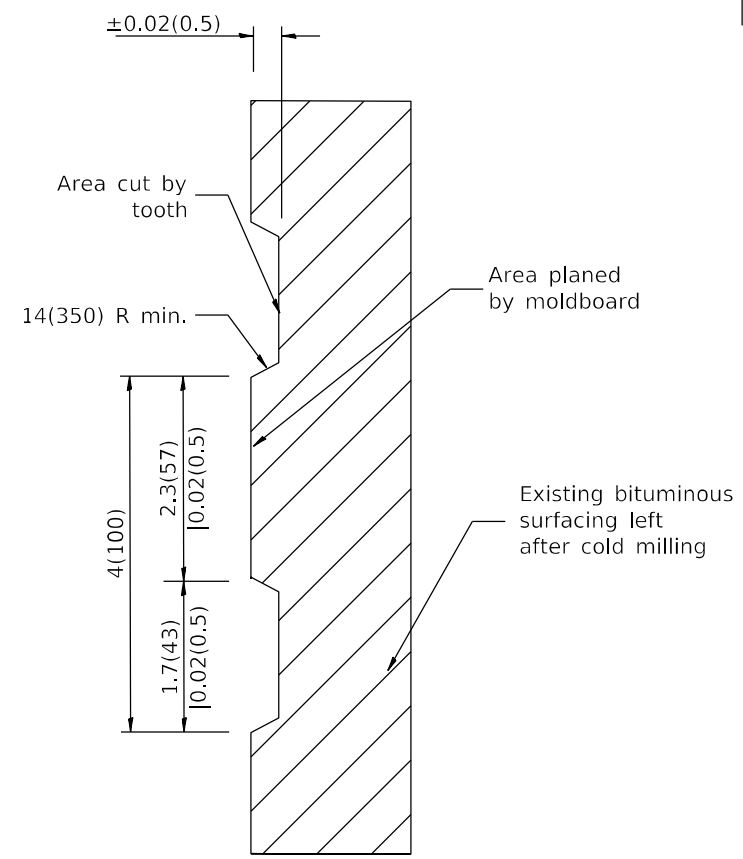
BUTT JOINTS
ILLINOIS ROUTE 89 OVER CLEAR CREEK

SCALE: SHEET OF SHEETS STA. TO STA.

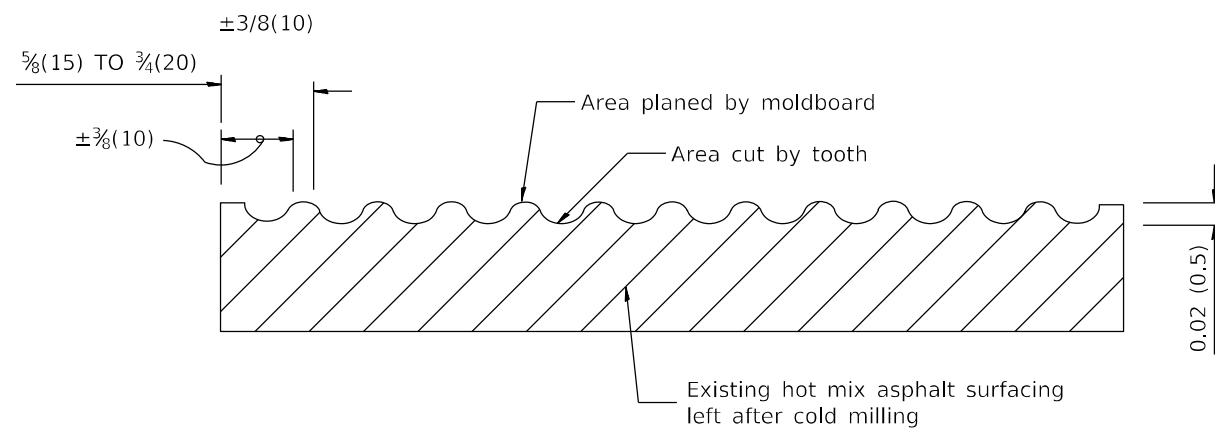
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	102
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				



PLAN



SECTION A-A



SECTION B-B PROJECTED
PERPENDICULAR TO CENTERLINE

General notes:

1. Coldmilling shall consist of two processes: Cutting with carbide teeth mounted on a rotating drum, and planing with a moldboard mounted immediately behind the cutting drum.
2. Other similar patterns will be acceptable if they consist of a smooth, flat, planed surface interspersed with a pattern of discontinuous longitudinal striations.

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

MODEL: Default
 FILE NAME: P:\C\upch\IDOT_DIST\UTTB_194-035_war_PN_HH_3120032\WO_9_Combine_Clear_Creek_and_CC_Trib_3120032-09\CAD_Sheets\168666-sh-c01_STANDARD05.dgn
 PLOT DATE: 5/10/2022

The Upchurch Group
 architects engineers surveyors
 123 North 15th Street
 Moline, IL 61438
 Phone: 312.255.3177
 License No.: 184-003401
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Station 44	DESIGNED - MJS	REVISED -
TUG PROJECT NO. 3120032-09	DRAWN - SAE	REVISED -
PLOT SCALE = 100:0.0000 " = 1" / in.	CHECKED - MJS	REVISED -
PLOT DATE = 5/10/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

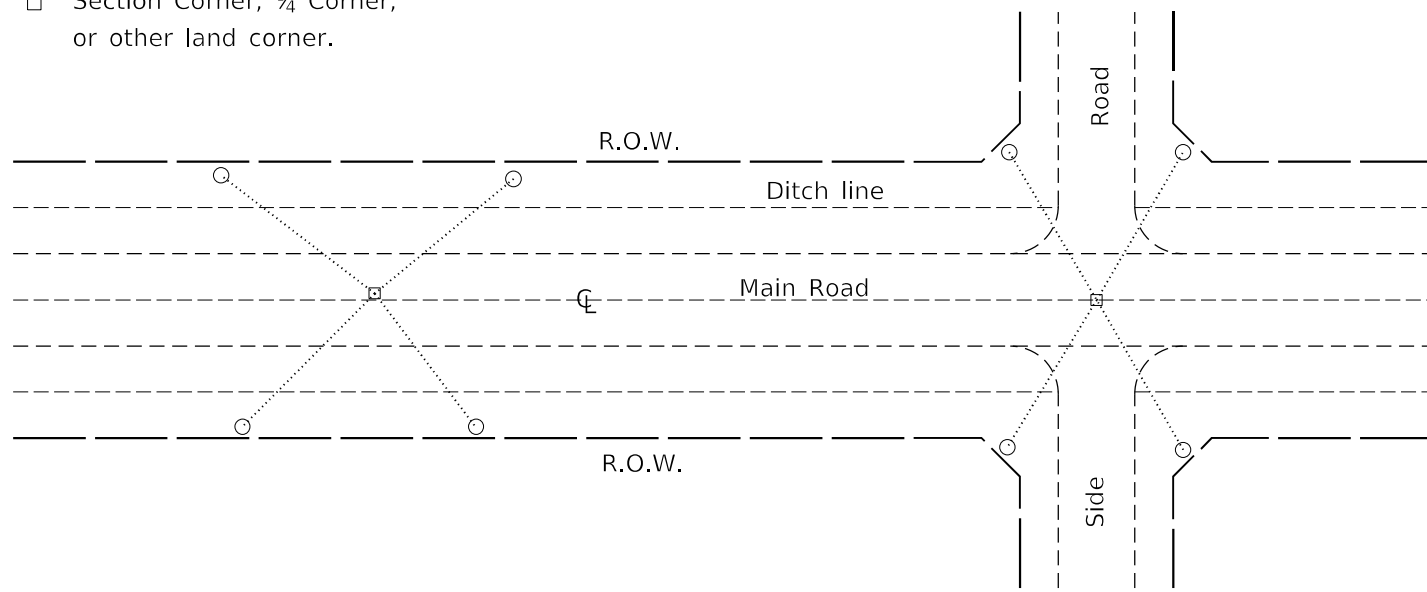
HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
ILLINOIS ROUTE 89 OVER CLEAR CREEK

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	103
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				

PERMANENT SURVEY TIES

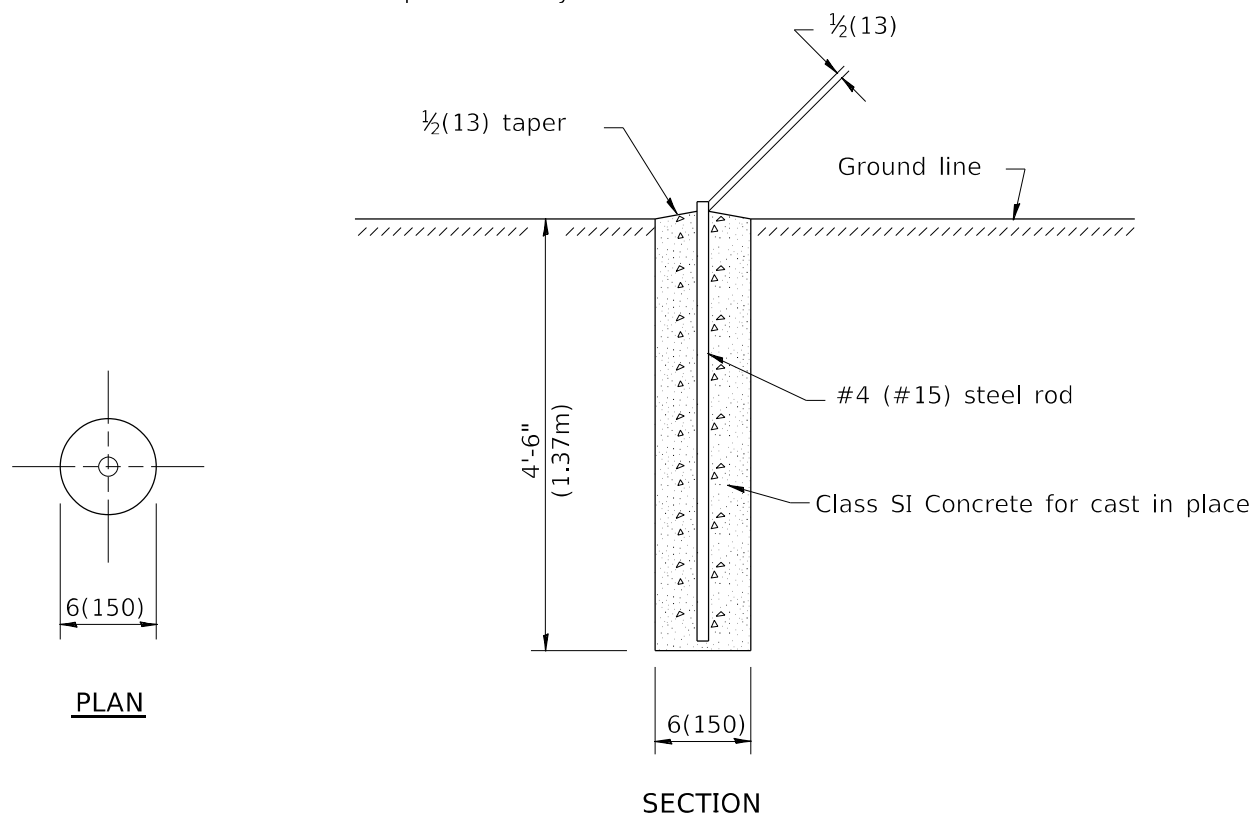
- Permanent Survey Tie
- Section Corner, 1/4 Corner, or other land corner.



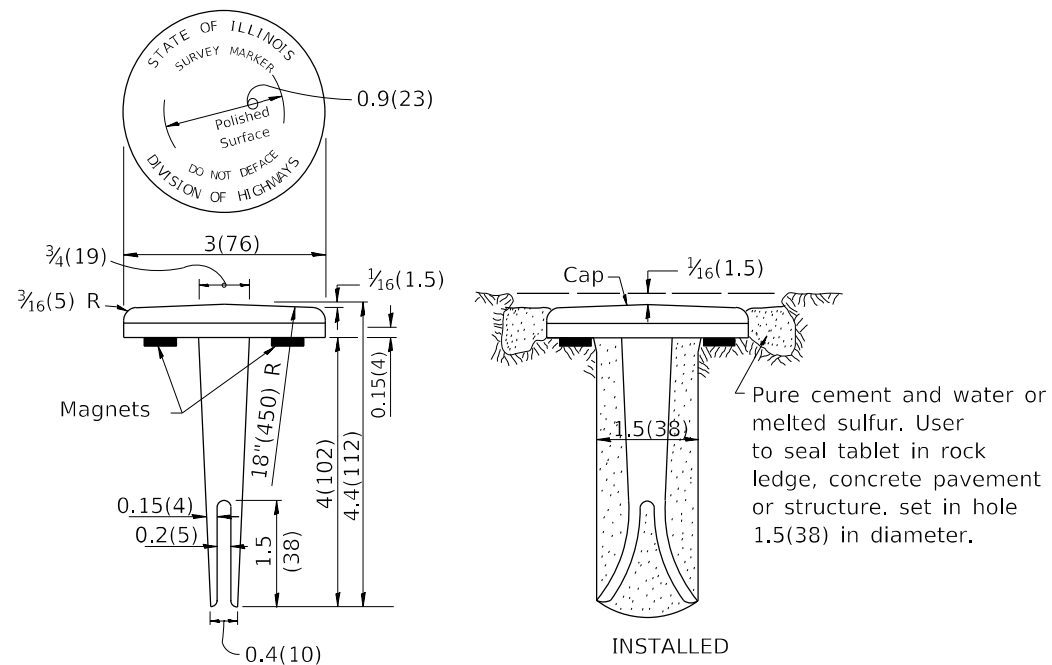
TYPICAL APPLICATION

GENERAL NOTES

1. The marker shall be cast in place of Class SI Concrete.
2. Tie marker shall be installed after the final seeding has been completed unless otherwise specified by the Engineer.
3. The tie distances to the section corner shall be measured and recorded by the surveyor setting the PSM. All ties shall be turned over to the IDOT Chief of Surveys or Chief of Plats for recordation.
4. All documentation shall be performed by a PLS



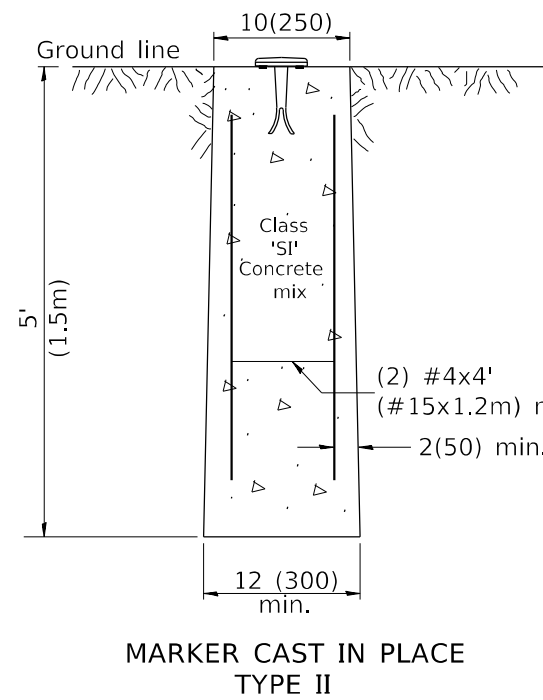
PERMANENT SURVEY MARKERS



TYPE I

GENERAL NOTES

1. All type II markers shall be cast in place, and precast markers will not be allowed.
2. Two permanent magnets, each having a diameter of 3/4 (19) and a thickness of 1/4 (6), or equivalent, shall be attached to the underside of the tablet with an approved epoxy bonding agent.
3. The location of the markers shall be in accordance with the plans in general, the markers will be placed at the P.T.'s, P.C.'s, and P.I.'s located within the R.O.W. of horizontal curves and spaces along the tangents in a way that a minimum of two markers are always inter-visible, and not to exceed 1000' (300m).
4. The markers shall be placed under the direction of the Engineer and shall be installed in a workmanlike manner in order that there will be no further settlement or horizontal shifting. The monuments shall be placed in a way that the survey point will fall within the portion of the plaque provided for that purpose.
5. The project designation, the centerline station, the survey point, and the elevation shall be permanently marked by the use of metal dies after marker has been installed.



MARKER CAST IN PLACE TYPE II

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

MODEL: D:\p\h\1 3120032\W0 9 Combine Clear Creek and CC Trib 3120032-09\CAD Sheets\1468665-shc-01 STANDARD.DWG

The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 123 North 15th Street
 Moline, IL 61438
 Phone: 312.253.3177
 License No. 184903401
 Email: upchurchgroup@upchurchgroup.com

USER NAME = Station 44
 TUG PROJECT NO. 3120032-09
 PLOT SCALE = 100:0.0000 " = 1' / in.
 PLOT DATE = 5/10/2022

DESIGNED - MJS
 DRAWN - SAE
 CHECKED - MJS
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PERMANENT SURVEY TIE &
 PERMANENT SURVEY MARKERS TY.I - TY.II
 ILLINOIS ROUTE 89 OVER CLEAR CREEK**

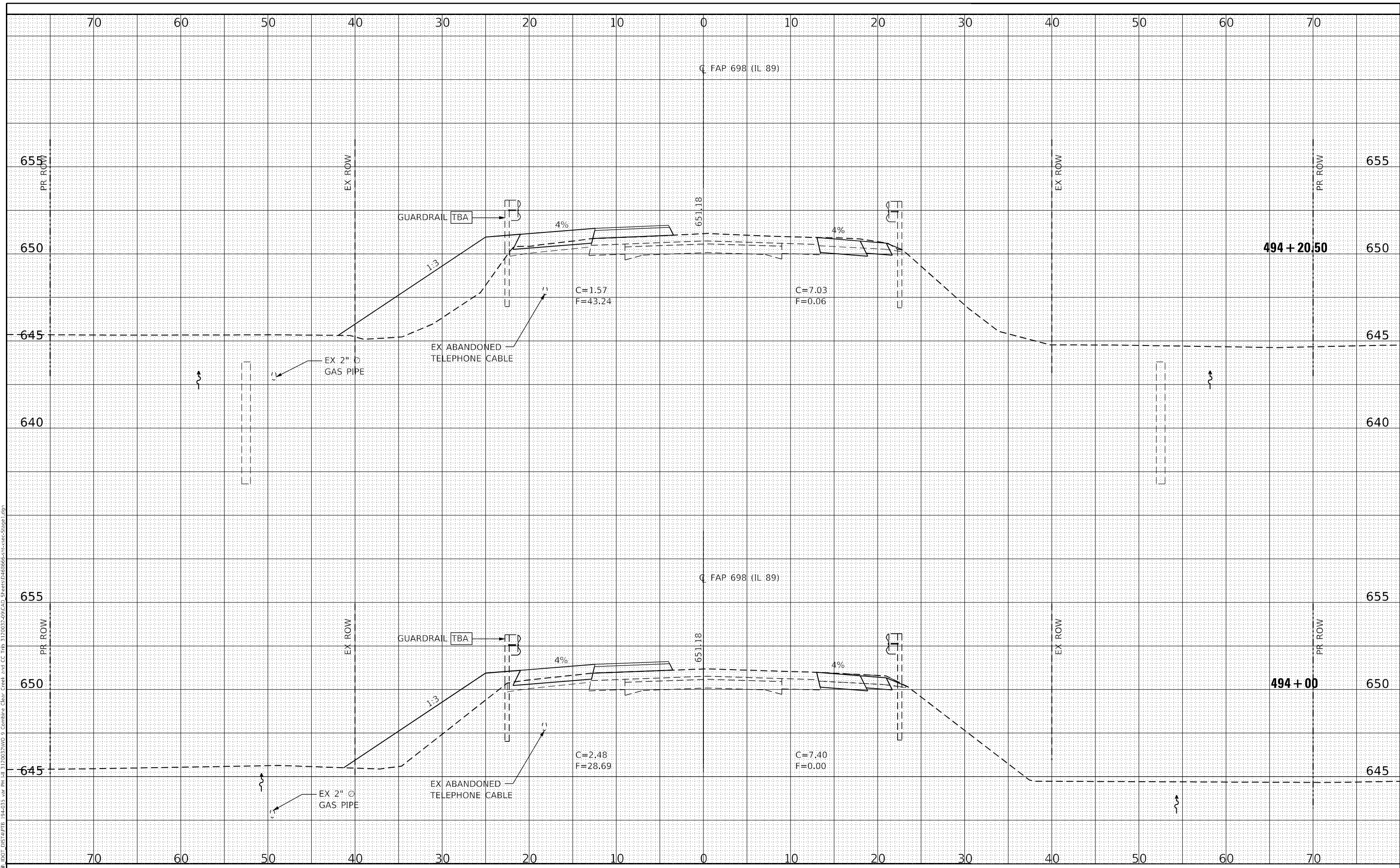
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	106
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Definitive
 FILE NAME: P:\001\DOT_DIST\MPB 194-035 var PH-11 3120032\W09 Combine Clear Creek and CC Trk 3120032-09\CAD Sheets\Dist\666-sh-cctcs-Stage I.dwg



The Upchurch Group
 architects engineers surveyors
 123 North 15th Street
 Moline, IL 61908
 Phone: 317.258.3177
 License No. 184-003101
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Sta42
 TUG PROJECT NO. 3120032-09
 PLOT SCALE = 10,0000 * / in.
 PLOT DATE = 10/12/2022

DESIGNED - MJS
 DRAWN - SAE
 CHECKED - MJS
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

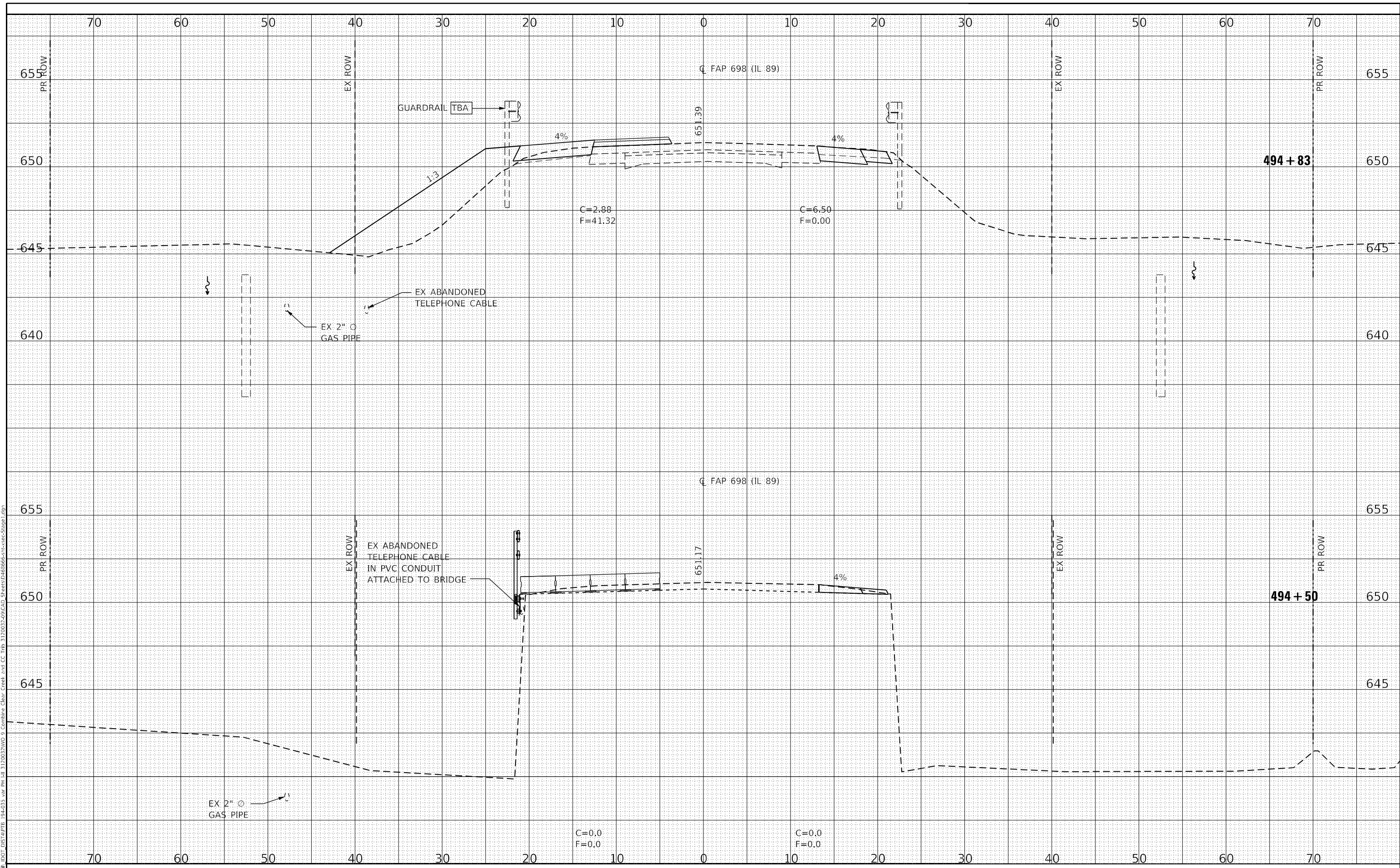
**CROSS SECTIONS - STAGE I
 ILLINOIS ROUTE 89 OVER CLEAR CREEK**
 SCALE: SHEET OF SHEETS STA. 494+00 TO STA. 494+17

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	111
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Definitive
 FILE NAME: P:\0411\DOT_DSG\FAPB_194-035.dwg
 USER: J120032\WVO
 PROJECT: 3120032-401\CAD_Sheets\194-035-Structure-Stage I.dwg



The Upchurch Group
 architects engineers surveyors
 123 North 15th Street
 Moline, IL 61908
 Phone: 317.258.3177
 License No. 184-003101
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Sta42
 TUG PROJECT NO. 3120032-09
 PLOT SCALE = 10,0000 * / in.
 PLOT DATE = 10/12/2022

DESIGNED - MJS
 DRAWN - SAE
 CHECKED - MJS
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

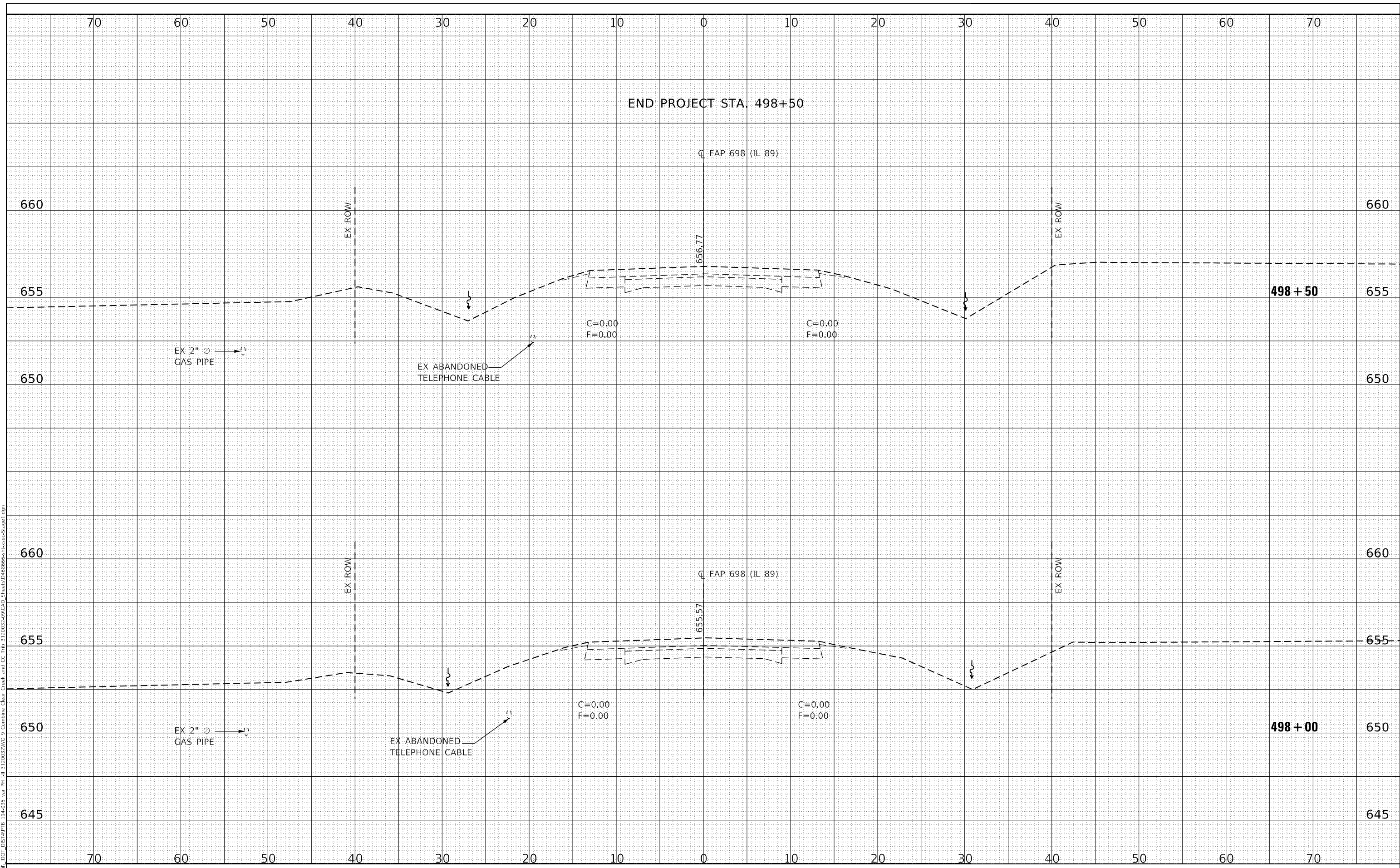
**CROSS SECTIONS - STAGE I
 ILLINOIS ROUTE 89 OVER CLEAR CREEK**
 SCALE: SHEET OF SHEETS STA. 494+50 TO STA. 494+87

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	112
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY NO.	SURVEYED	DATE
	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

MODEL: Definitive
 FILE NAME: P:\0611\DOT_DIST\MPB_194-035.dwg
 USER: 3120032\WDO
 PROJECT: 3120032\WDO
 SHEETS: D:\68666-sheets-stage1.dwg



The Upchurch Group
 architects engineers surveyors
 123 North 15th Street
 Maitland, IL 61938
 Phone: 312.258.3177
 License No. 184-003101
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Sta42
 TUG PROJECT NO. 3120032-09
 PLOT SCALE = 10,0000 * / in.
 PLOT DATE = 10/12/2022

DESIGNED - MJS
 DRAWN - SAE
 CHECKED - MJS
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

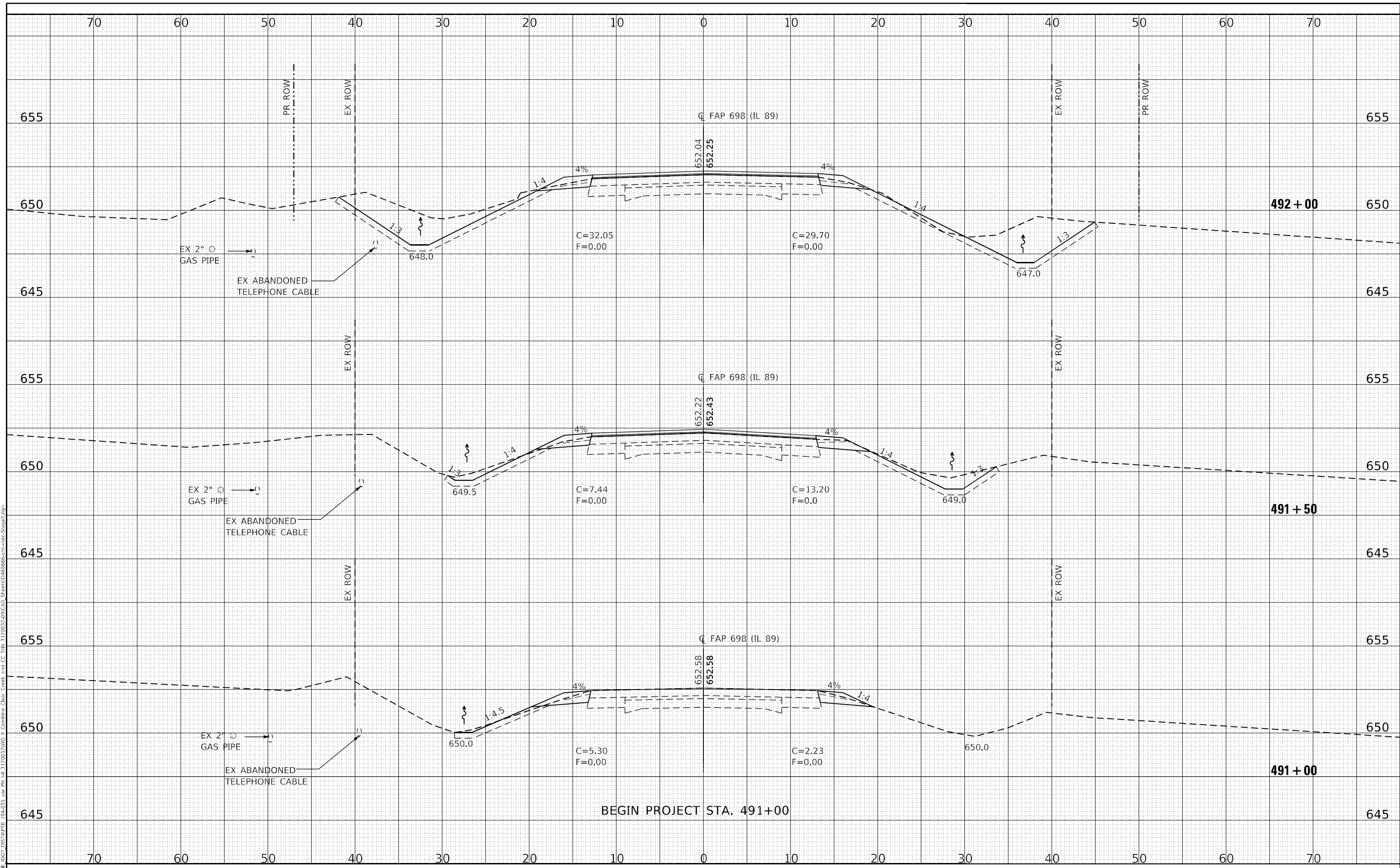
**CROSS SECTIONS - STAGE I
 ILLINOIS ROUTE 89 OVER CLEAR CREEK**
 SCALE: SHEET OF SHEETS STA. 498+00 TO STA. 498+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	116
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default
 FILE NAME: P:\CADD\DOT\DOTS\MPB 194-035 var PH - 11 3120032\W0 9 Combine Clear Creek and CC Twp 3120032-09\CAD Sheets\68666-sh-cs-sta2.dwg



The Upchurch Group
 architects engineers surveyors
 Professional Design Firm
 123 North 15th Street
 Moline, IL 61908
 Phone: 317.258.3177
 License No. 184-003101
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Sta42
 TUG PROJECT NO. 3120032-09
 PLOT SCALE = 10,0000 * / in.
 PLOT DATE = 10/12/2022

DESIGNED - MJS
 DRAWN - SAE
 CHECKED - MJS
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

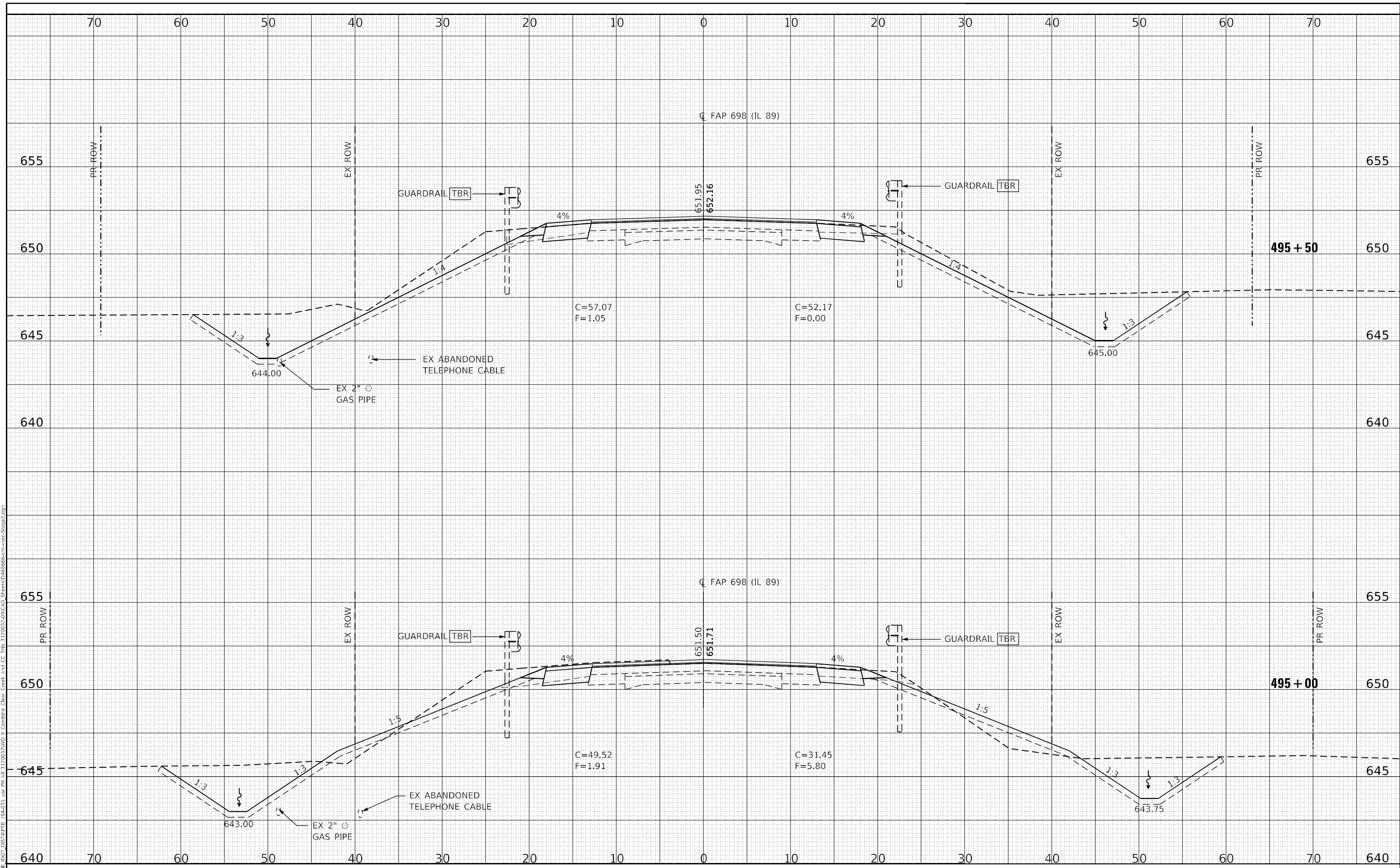
CROSS SECTIONS - STAGE II AND III
ILLINOIS ROUTE 89 OVER CLEAR CREEK
 SCALE: SHEET OF SHEETS STA. 491+00 TO STA. 492+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	117
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default
 FILE NAME: P:\CADD\DOT\DOTS\DOTS\194-035.dwg
 I:\3120032\W09\Combine Clear Creek and CC 111\3120032-09\CAD_Sheets\194-035-Stage2.dwg



The Upchurch Group
 architects engineers surveyors
 Professional Design Firm
 123 North 15th Street
 Maitland, IL 61938
 Phone: 312.258.3177
 License No. 184-003101
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Sta42
 TUG PROJECT NO. 3120032-09
 PLOT SCALE = 10,0000 * / in.
 PLOT DATE = 10/12/2022

DESIGNED - MJS
 DRAWN - SAE
 CHECKED - MJS
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - STAGE II AND III
 ILLINOIS ROUTE 89 OVER CLEAR CREEK**

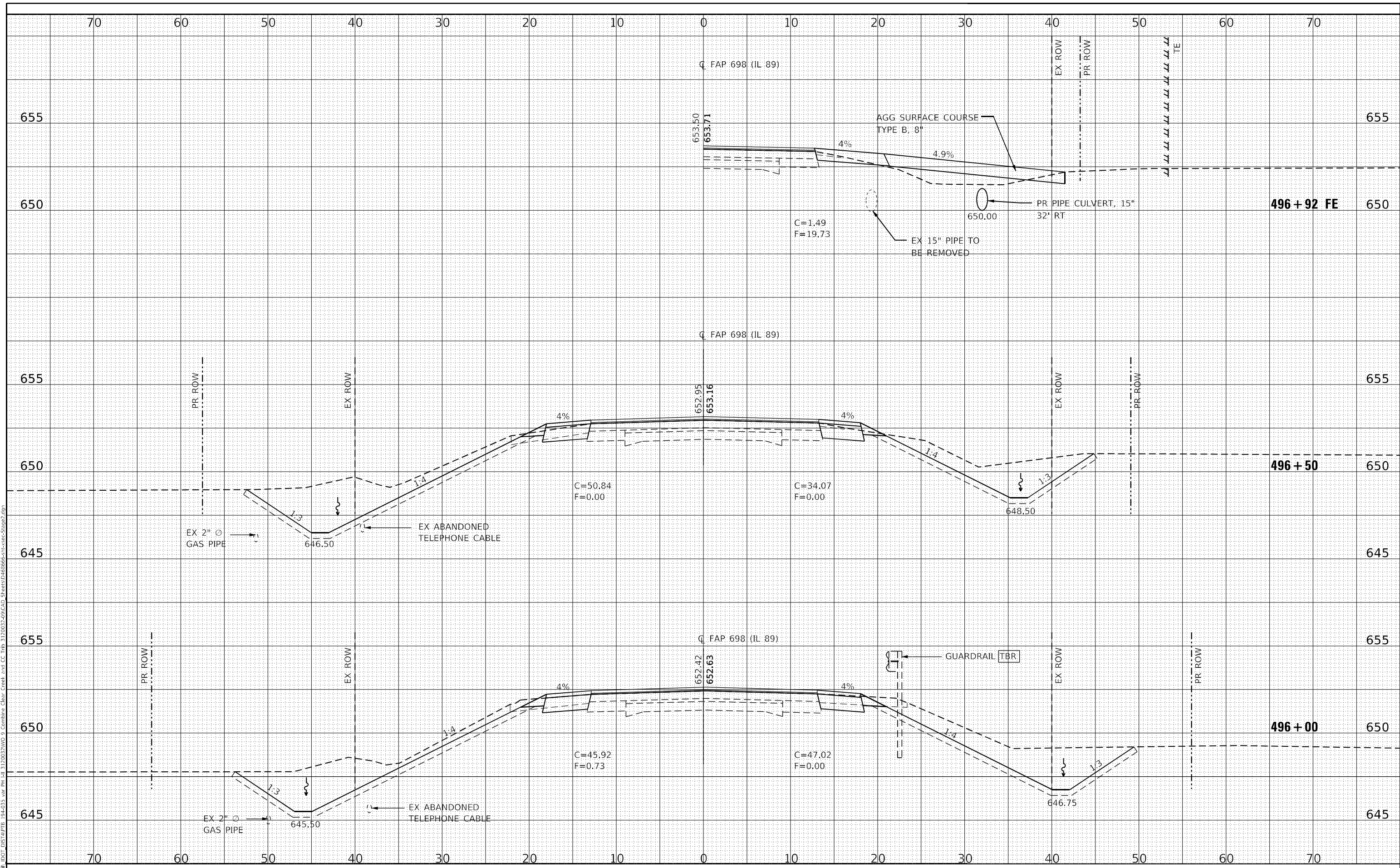
SCALE: SHEET OF SHEETS STA. 495+00 TO STA. 495+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	121
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default
 FILE NAME: P:\CADD\DOT\DOT\MPB\194-035\ar PH-11\3120032\W09\Combine Clear Creek and CC 11b\3120032-09\CAD_Sheets\194-035-Stage2.dwg



The Upchurch Group
 architects engineers surveyors
 Professional Design Firm
 123 North 15th Street
 Moline, IL 61908
 Phone: 312.258.3177
 License No. 184-003101
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Sta42
 TUG PROJECT NO. 3120032-09
 PLOT SCALE = 10,0000 * / in.
 PLOT DATE = 10/12/2022

DESIGNED - MJS
 DRAWN - SAE
 CHECKED - MJS
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - STAGE II AND III
 ILLINOIS ROUTE 89 OVER CLEAR CREEK**

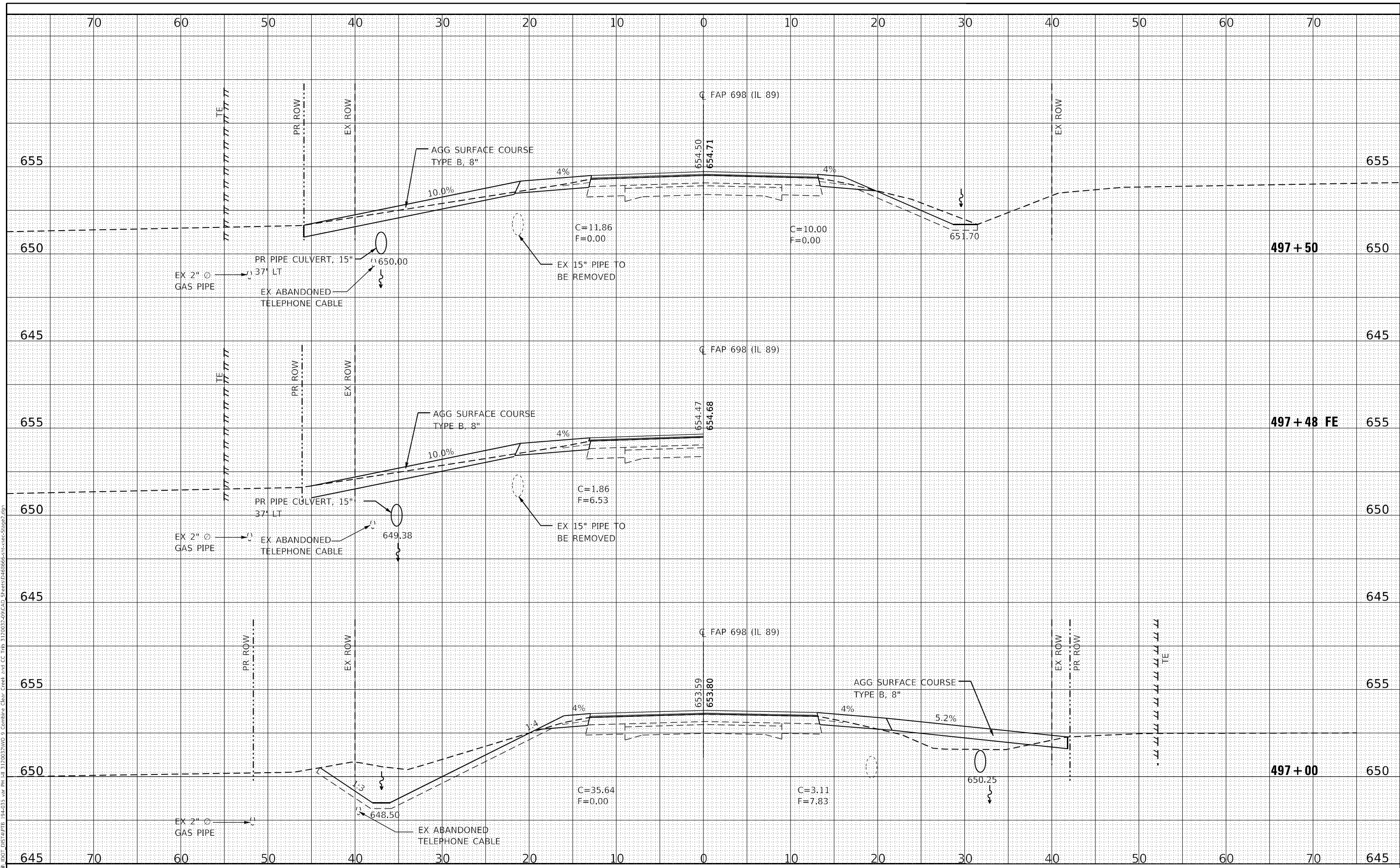
SCALE: SHEET OF SHEETS STA. 496+00 TO STA. 496+92

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	122
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Definitive
 FILE NAME: P:\0411\DOT\DOT\104-035\0411\120323\104-035\0411\120323-09\CAD_Sheets\104-035-09\Stage2.dwg



The Upchurch Group
 architects engineers surveyors
 123 North 15th Street
 Maitland, IL 61938
 Phone: 312.258.3177
 License No. 184-003101
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Sta42
 TUG PROJECT NO. 3120032-09
 PLOT SCALE = 10,0000 * / in.
 PLOT DATE = 10/12/2022

DESIGNED - MJS
 DRAWN - SAE
 CHECKED - MJS
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - STAGE II AND III
ILLINOIS ROUTE 89 OVER CLEAR CREEK
 SCALE: SHEET OF SHEETS STA. 497+00 TO STA. 497+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(122)BR, BR-1	PUTNAM	124	123
CONTRACT NO. 68666				
ILLINOIS FED. AID PROJECT				

