CITY OF BLOOMINGTON

ROAD PLANS

HEADLEY ROAD SLIDE CORRECTION

CAST-IN-PLACE RETAINING WALL AND ROAD RECONSTRUCTION WITH STORM SEWERS ON HEADLEY ROAD NEAR LAKE GRIFFY IN BLOOMINGTON, MONROE COUNTY

TRAFFIC DATA	HEADLEY ROAD
AADT. 2010	662 V.P.D.
AADT. 2028	V.P.D.
DHV 2028	V.P.H.
DIRECTIONAL DISTRIBUTION	51% NB / 49% SB
TRUCKS	2.0% AADT.
DESIGN DATA	
DESIGN SPEED	M.P.H.
PROJECT DESIGN CRITERIA	3R NON-FREEWAY
FUNCTIONAL CLASSIFICATION	LOCAL MINOR COLLECTOR
RURAL/URBAN	RURAL
TERRAIN	ROLLING
ACCESS CONTROL	NONE

FINAL PLANS

CITY OF BLOOMINGTON

HON. MARK KRUZAN, MAYOR

BOARD OF PUBLIC WORKS

CHARLOTTE ZIETLOW, PRESIDENT

JAMES McNAMARA, VICE PRESIDENT

DR. FRANK HRISOMALOS, MEMBER

DEPARTMENT OF PUBLIC WORKS

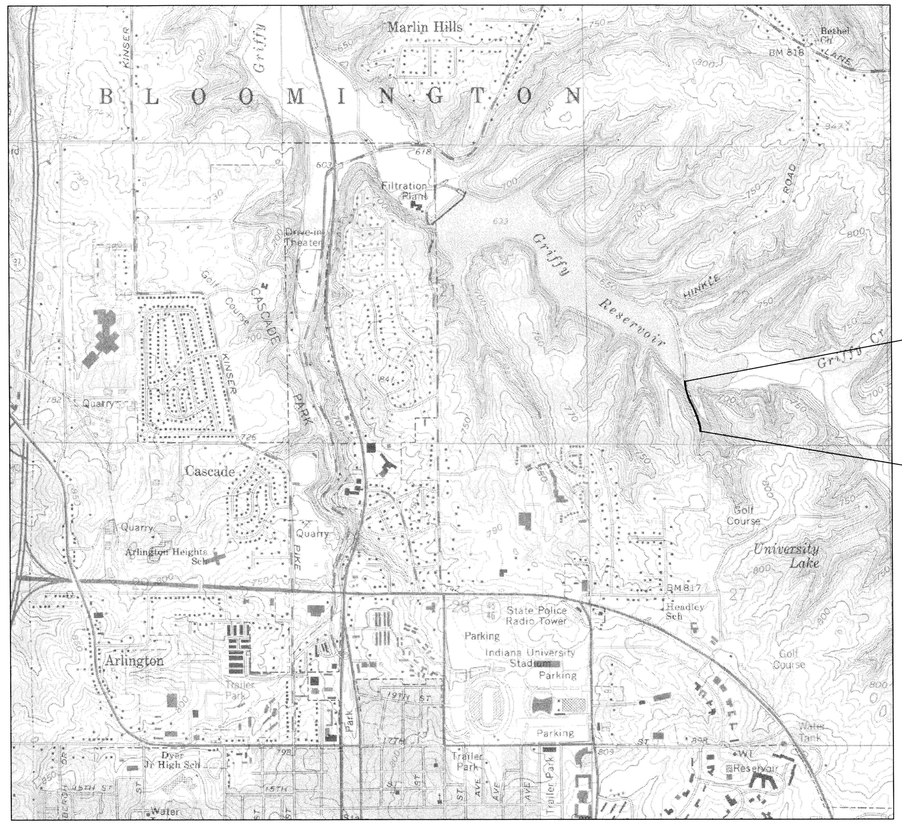
SUSIE JOHNSON, DIRECTOR

JUSTIN WYKOFF, MANAGER, ENGINEERING SERVICES

ADRIAN REID, P.E., CITY ENGINEER

Gross Length: 584 Feet
Net Length: 320 Feet

Maximum Grade: 12.44%



END PROJECT
STA. 16+73.53 "A"

BEGIN PROJECT
STA. 10+90.00 "A"

0 2000'

PROJECT LOCATION MAP
MONROE COUNTY

PROJECT LOCATION SHOWN BY

FOR STORM SEWER CONSTRUCTION:
CITY OF BLOOMINGTON UTILITIES CONSTRUCTION SPECIFICATIONS TO BE USED WITH THESE PLANS

FOR STRUCTURAL CONCRETE, CURBS AND PAVING WORK:
INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2010 TO BE USED WITH THESE PLANS

PREPARED BY:
EARTH EXPLORATION
7770 W. New York Street
Indianapolis, Indiana 46217-2988
(317)273-1690; Fax: (317)273-2250

IN ASSOCIATION WITH:
EAGLE RIDGE
CIVIL ENGINEERING SERVICES
1321 Laurel Oak Drive
Avon, Indiana 46123
(317)370-9672

MICHAEL S. WIGGER REGISTERED No. 10404001 STATE OF INDIANA PROFESSIONAL ENGINEER

PLANS PREPARED BY: Michael S. Wigger 9/14/10 (317) 273-1690 PHONE NUMBER

CERTIFIED BY: DATE

APPROVED FOR LETTING: DATE

DESIGNATION
N/A

SURVEY BOOK	SHEETS
	1 of 22
CONTRACT	PROJECT
N/A	HEADLEY ROAD

HEADLEY ROAD SLIDE CORRECTION

UTILITIES

CABLE TELEVISION
COMCAST
ATTN: SCOTT TEMPLETON
2450 SOUTH HENDERSON ST.
BLOOMINGTON, IN 47401
(812) 355-7822

GAS
VECTREN ENERGY
ATTN: DOUG ANDERSON
205 SOUTH MADISON
BLOOMINGTON, IN 47404
(812) 330-4009

FOR SERVICE RELOCATIONS
(48 HOUR NOTICE NEEDED)
ATTN: GREG THACKER
(812) 330-4001

ELECTRIC
DUKE ENERGY
ATTN: KERRY DUCKER
1100 WEST SECOND ST.
P.O. BOX 2448
BLOOMINGTON, IN 47403
(812) 337-3035

SEWER AND WATER
CITY OF BLOOMINGTON UTILITIES
ATTN: PHIL PEDEN, P.E.
600 E. MILLER DRIVE
BLOOMINGTON, IN 47401
(812) 349-3631

DATA
BLOOMINGTON DIGITAL UNDERGROUND
ATTN: RICK ROUTON
ITS DEPT., CITY HALL
401 N. MORTON ST.
SUITE 150
BLOOMINGTON, IN 47404
(812) 349-3856

TELEPHONE/COMMUNICATIONS
AT & T
ATTN: BRENT McCABE
4517 INDIANA BELL COURT
BLOOMINGTON, IN 47408
(812) 334-4521

SMITHVILLE TELEPHONE CO.
ATTN: JACK HILLENBERG
1600 W. TEMPERANCE ST.
ELLETTSVILLE, IN 47429-0729
(812) 876-9103

ZAYO BANDWIDTH
ATTN: CRAIG BROWN
701 W. HENRY ST.
INDIANAPOLIS, IN 46225
(317) 524-5711

LEVEL 3 COMMUNICATIONS
ATTN: MARK CONDER
1902 S. EAST STREET
INDIANAPOLIS, IN 46225
(317) 908-9109

INDEX

SHEET NO.	DRAWINGS INDEX
1	TITLE SHEET
2	INDEX / LEGEND / UTILITY DATA
3	TYPICAL CROSS SECTIONS AND DETAILS
4 - 5	MAINTENANCE OF TRAFFIC AND EROSION CONTROL PLANS
6	PLAN AND PROFILE
7 - 8	RETAINING WALL DETAILS
9	STRUCTURE DATA TABLE / PAVEMENT QUANTITIES TABLE
10 - 22	CROSS SECTIONS

REVISIONS

SHEET NO.	DATE	REVISED

GENERAL LEGEND (EXISTING SCREENED, PROPOSED IN BOLD)

- UTILITY HAND HOLE
- LIGHT POLE
- WATER VALVE
- GAS VALVE
- INLETS
- HYDRANT
- TRAFFIC MANHOLE
- TREES
- FLAG POLE
- SIGN (1 OR 2 POST)
- STUMP
- POWER POLE
- GUY WIRE
- GAS METER
- WATER METER
- MAILBOX
- YARD LIGHT
- POWER POLE WITH LIGHT AND RISER
- POWER POLE WITH RISER
- CONTROLLER
- SIGNAL POLE
- PEDESTRIAN SIGNAL POLE
- ELECTRIC METER
- CO — CLEAN OUT
- MANHOLE (STORM, SANITARY OR COMBINED)
- STORM / SANITARY SEWER
- EL — UNDERGROUND ELECTRIC
- T — TELEPHONE LINE
- OHU — OVERHEAD UTILITY
- W — WATER LINE
- G — GAS LINE
- APP. R — PROPERTY LINE
- APP. EXIST. R/W — EXISTING RIGHT-OF-WAY LINE
- R/W — PROPOSED RIGHT-OF-WAY LINE
- WIRE FENCE
- SPLIT RAIL FENCE/WOODEN FENCE
- CHAIN LINK FENCE

MAINTENANCE OF TRAFFIC AND EROSION CONTROL ITEMS

- INDOT STANDARD DRUM WITH STEADY BURN LIGHTS
- FLASHING ARROW SIGN
- DETOUR ROUTE MARKER ASSEMBLY (LETTER DENOTES TYPE)
- BARRICADE (TYPE III)
- CONSTRUCTION SIGNS (SHAPE PER MUTCD)
- TRAFFIC FLOW DIRECTION
- ROAD CLOSURE SIGN ASSEMBLY
- BUZZ STRIPS, 6 EACH SET, 8" WIDE, SOLID WHITE THERMOPLASTIC LINES
- RR — TEMPORARY CHECK DAM, REVETMENT RIPRAP
- SB — TEMPORARY CHECK DAM, STRAW BALES
- CI — INLET PROTECTION, CURB
- DI — DITCH INLET PROTECTION
- SF — TEMPORARY SILT FENCING

PROPOSED ITEMS

- 18 — COMBINED CURB AND GUTTER, TYPE "C"
- K1 — FULL DEPTH PAVEMENT (SEE TYPICAL DETAILS)
- P — ROAD PATCHING
- R3 — VARIABLE DEPTH WEDGE AND LEVEL WITH OVERLAY SECTION

EAGLE RIDGE
CIVIL ENGINEERING SERVICES
1321 Laurel Oak Drive
Avon, IN 46123
(317) 370-9672
bridgway@eagleridgecivil.com

BROCK RIDGWAY REGISTERED No. 19300092 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 9/15/10 DATE

DESIGNED: BR DRAWN: SI
CHECKED: MW CHECKED: BR

CITY OF BLOOMINGTON

INDEX / LEGEND / UTILITY DATA

HORIZONAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	2 of 22
CONTRACT	PROJECT
LOCAL	HEADLEY ROAD

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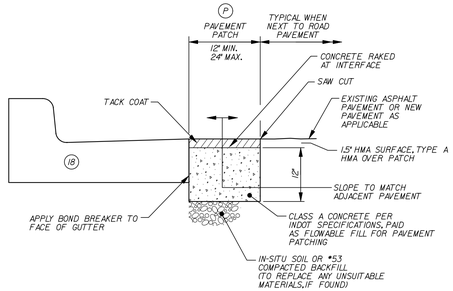
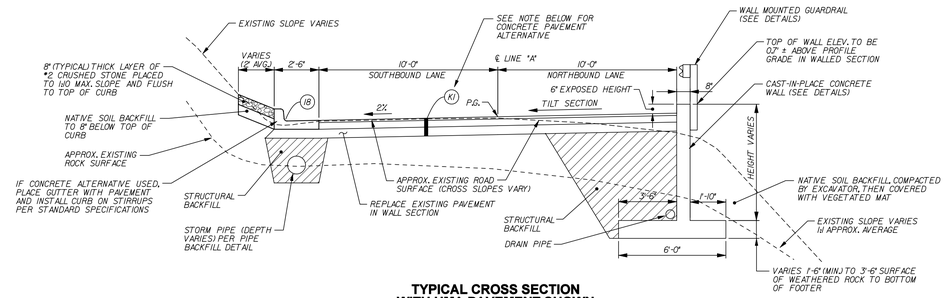


P PAVEMENT PATCH AT CURBS DETAIL

NTS

NOTES:

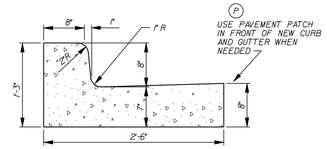
1. AREA BEHIND CURBS TO RECEIVE TREATMENT AS SHOWN ON PLANS.
2. REFER TO CURB JOINTS NOTES FOR CURB JOINTING.
3. PAVEMENT PATCHING MAY NOT BE REQUIRED IF EXISTING PAVEMENT CAN BE REMOVED TO A CLEAN AND STRAIGHT EDGE AT FRONT OF PROPOSED CURB OR GUTTER. CITY APPROVAL IS REQUIRED.
4. PAVEMENT PATCHING REQUIRED WHEREVER EXISTING PAVEMENT MUST BE REPAIRED OR REPLACED NEXT TO REQUIRED CURB, DRIVE OR SIDEWALK WORK.



TYPICAL CROSS SECTION WITH HMA PAVEMENT SHOWN

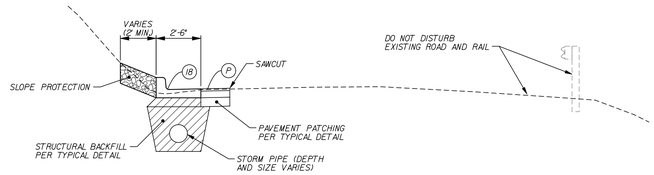
NTS

STA. 11+00.00 TO STA. 14+20.00
(TILT SECTION)



18 COMBINED CURB AND GUTTER DETAIL

NTS
(INDOT TYPE "C")



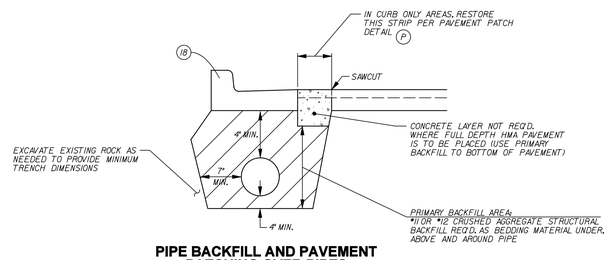
TYPICAL CROSS SECTION

NTS

STA. 14+20.00 TO STA. 16+35.00
(EXISTING CROWN SECTION)

CURB JOINTS NOTES:

1. ALL CURBS SHALL RECEIVE A FULL DEPTH EXPANSION JOINT FORMED WITH ½" PREFORMED JOINT FILLER AT THE FOLLOWING LOCATIONS:
   - EVERY EXPANSION JOINT IN ADJACENT SIDEWALKS OR MEDIAN BUFFER STRIP
   - AT EACH RADIUS POINT AND AT START/END OF DRIVES
   - ON EITHER SIDE OF CURB INLETS OR OTHER CASTINGS
   - AT SAWCUT LIMITS OF REMOVAL TO ANY EXISTING CURB
   - AT 100' MAXIMUM INTERVALS, IF NO OTHER JOINTS NEEDED
2. CURBS & COMBINED CURB AND GUTTER SHALL RECEIVE A TOOLED CONTRACTION JOINT AT 20' MAXIMUM SPACING.



PIPE BACKFILL AND PAVEMENT PATCHING OVER PIPES

NTS

CONCRETE PAVEMENT ALTERNATIVE
AS AN ALTERNATIVE, IF BID AND APPROVED BY CITY, CONTRACTOR WILL SUBSTITUTE THE FOLLOWING SECTION:
8" PCC PAVEMENT, ON
4" LAYER OF COMPACTED AGGREGATE #53
JOINTED AND DOWELED
ALL WORK IN ACCORDANCE WITH INDIANA STANDARD SPECIFICATIONS

LEGEND

18 COMBINED CURB AND GUTTER, TYPE C

K1 FULL DEPTH HMA PAVEMENT SECTION
1.5" (165 LB/YD²) HMA, SURFACE TYPE A, ON
4.5" (495 LB/YD²) HMA, INTERMEDIATE TYPE A (IN TWO LIFTS), ON
6" COMPACTED AGGREGATE #53 BASE ON COMPACTED SUBGRADE OR STRUCTURAL BACKFILL AS APPLICABLE

K2 VARIABLE DEPTH HMA OVERLAY
1.5" (165 LB/YD²) HMA, SURFACE TYPE A, ON
VARIABLE DEPTH HMA, INTERMEDIATE TYPE A, ON
MILLED SURFACE, ½" TYPICAL THICKNESS

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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 9/15/10 DATE

DESIGNED: BR | DRAWN: SI
CHECKED: MW | CHECKED: BR

CITY OF BLOOMINGTON

TYPICAL CROSS SECTIONS AND DETAILS

HORIZONAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	3 of 22
CONTRACT	PROJECT
LOCAL	HEADLEY ROAD

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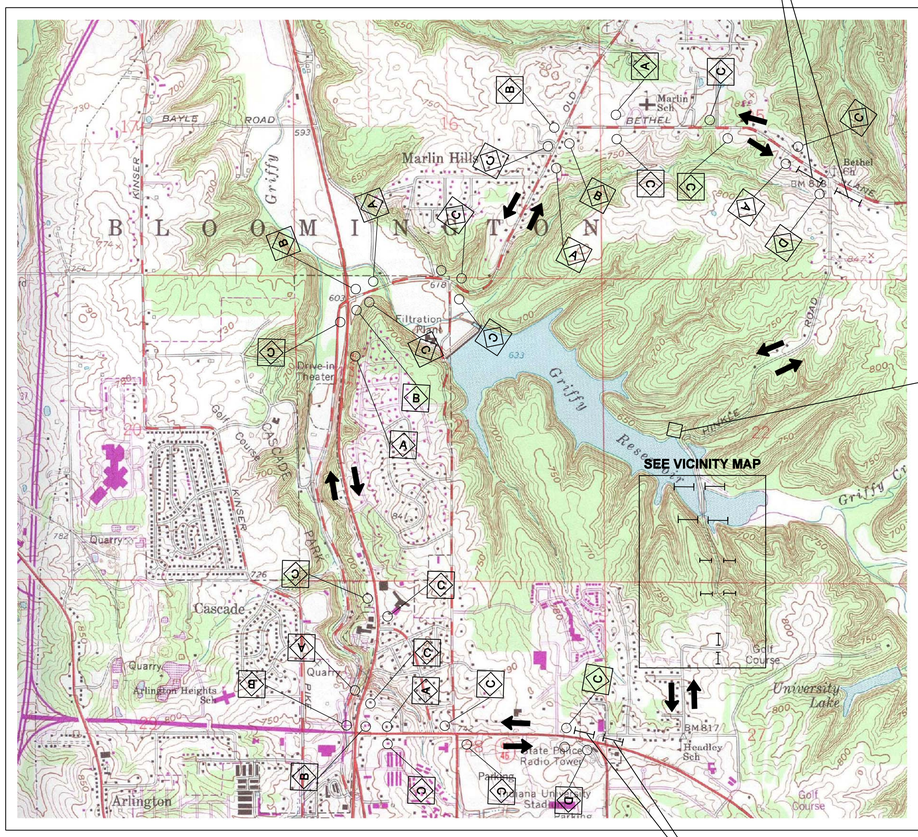
COUNTY BRIDGE LOADING LIMITATIONS:
BRIDGE ON THE CAUSEWAY ADJACENT TO THE PROJECT IS RATED FOR HS-20 TRAFFIC. CONTRACTOR IS TO ENSURE THAT MATERIAL AND EQUIPMENT TRAFFIC DOES NOT EXCEED BRIDGE LIMITS.



2-IIIB BARRICADES AND
ROAD CLOSED 500 FT
XW20-3

2-IIIB BARRICADES AND
ROAD CLOSED
1 MILE AHEAD
LOCAL TRAFFIC ONLY
R11-3

DETOUR
XM4-9(R)

2-IIIB BARRICADES AND
ROAD CLOSED
1 MILE AHEAD
LOCAL TRAFFIC ONLY
R11-3

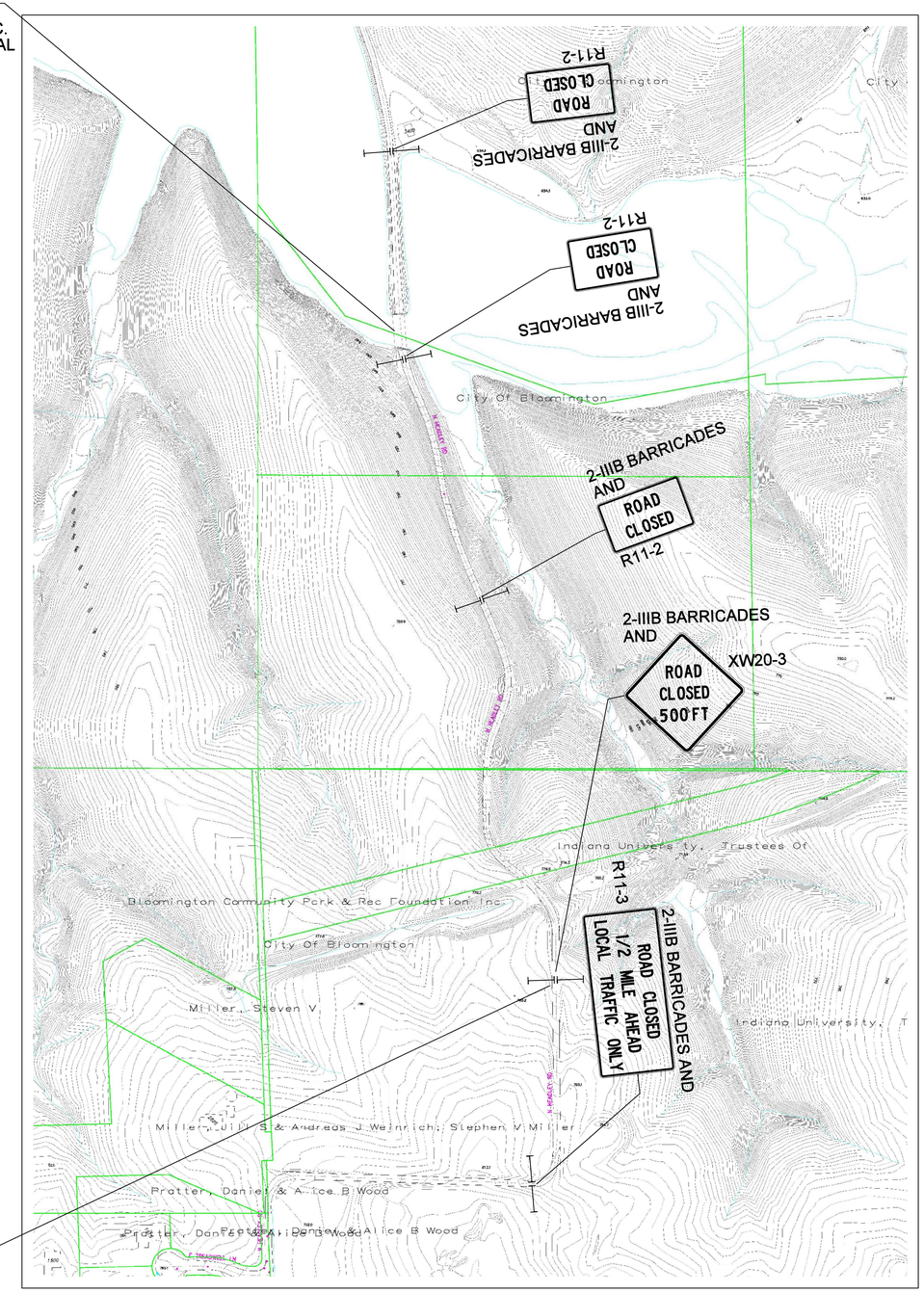
DETOUR
XM4-9(L)

DETOUR ROUTE MARKER CODES:

- (A) ADVANCE TURN
- (B) DIRECTIONAL
- (C) CONFIRMING
- (D) END

DETOUR ROUTE AND SIGNAGE MAP

NO SCALE



POSITION THESE BARRICADES AND SIGN TO ALLOW ACCESS TO TRAIL PARKING

VICINITY MAP

NO SCALE

MAINTENANCE OF TRAFFIC LEGEND

- INDOT STANDARD DRUM WITH STEADY BURN LIGHTS
- FLASHING ARROW SIGN
- DETOUR ROUTE MARKER ASSEMBLY (LETTER DENOTES TYPE) (PER INDOT STANDARDS)
- BARRICADE (TYPE III)
- CONSTRUCTION SIGNS (SHAPE PER MUTCD)
- TRAFFIC FLOW DIRECTION
- ROAD CLOSURE SIGN ASSEMBLY

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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 9/15/10 DATE

DESIGNED: BR DRAWN: SI
CHECKED: MW CHECKED: BR

CITY OF BLOOMINGTON

MAINTENANCE OF TRAFFIC AND EROSION CONTROL PLANS

HORIZONAL SCALE	BRIDGE FILE
NONE	N/A
VERTICAL SCALE	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	4 of 22
CONTRACT	PROJECT
LOCAL	HEADLEY ROAD

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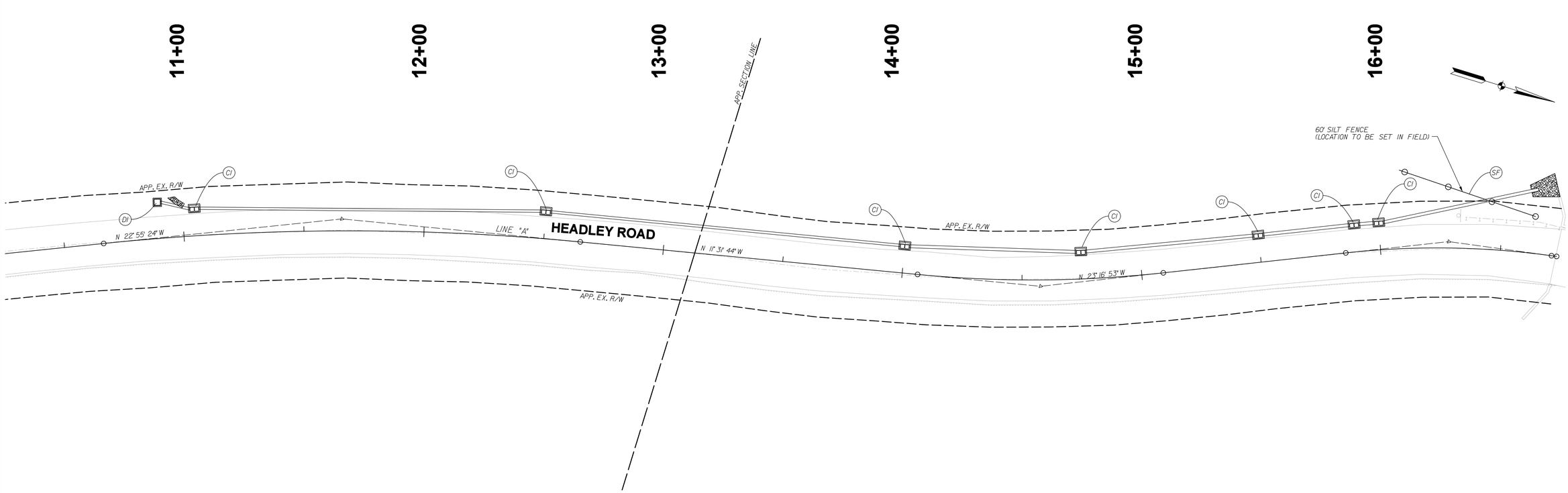

PHASE	WORK DESCRIPTION	TRAFFIC CONTROL SCHEME
I	PRIMARY ROAD AND STORM SEWER CONSTRUCTION	FULL ROAD ENCLOSURE WITH DETOUR
II	CLEANUP ACTIVITIES	FLAGGER AS NEEDED

CONSTRUCTION SIGN AND BARRICADE SUMMARY

ITEM	CODE	REQUIREMENTS PER PHASE						SUBTOTAL/ HIGHEST NEED	COMMENTS
		I					UNDIST		
BARRICADE III	-	14	-	-	-	-	-	14	
CONSTRUCTION SIGNS, A									
ROAD CONSTRUCTION AHEAD	XW20-1	-							
END CONSTRUCTION	XG20-2	-							
ROAD CLOSED AHEAD	XW20-3	-							
ROAD CLOSED (1 MILE OR 1/2 MILE) AHEAD (LOCAL TRAFFIC ONLY)	R11-3a	3						3	
ROAD CLOSED 500 FT	XW20-3	2						2	
DETOUR	XM4-9(R or L)	2						2	
FLAGGER AHEAD	XW20-7a		2				2	2	
BE PREPARED TO STOP	XW20-7b		2				2	2	
ROAD CLOSED	R11-2	3						3	
OWNER DETERMINED	N/A						4	4	
							TOTAL	18	

ESTIMATED TEMPORARY EROSION CONTROL QUANTITIES TABLE

	I			TOTAL
TEMPORARY SILT FENCE (LFT) (SF)	60			60
CURB INLET PROTECTION (EA) (CI)	7			7
STRAW BALE CHECK DAM (EA) (SB)	-			-
DITCH INLET PROTECTION (EA) (DI)	1			1

EROSION CONTROL REQUIREMENTS:

SEE TECHNICAL SPECIFICATIONS

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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 9/15/10 DATE

DESIGNED: BR DRAWN: SI
CHECKED: MW CHECKED: BR

CITY OF BLOOMINGTON

MAINTENANCE OF TRAFFIC AND EROSION CONTROL PLANS

HORIZONAL SCALE	BRIDGE FILE
	N/A
VERTICAL SCALE	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	5 of 22
CONTRACT	PROJECT
LOCAL	HEADLEY ROAD

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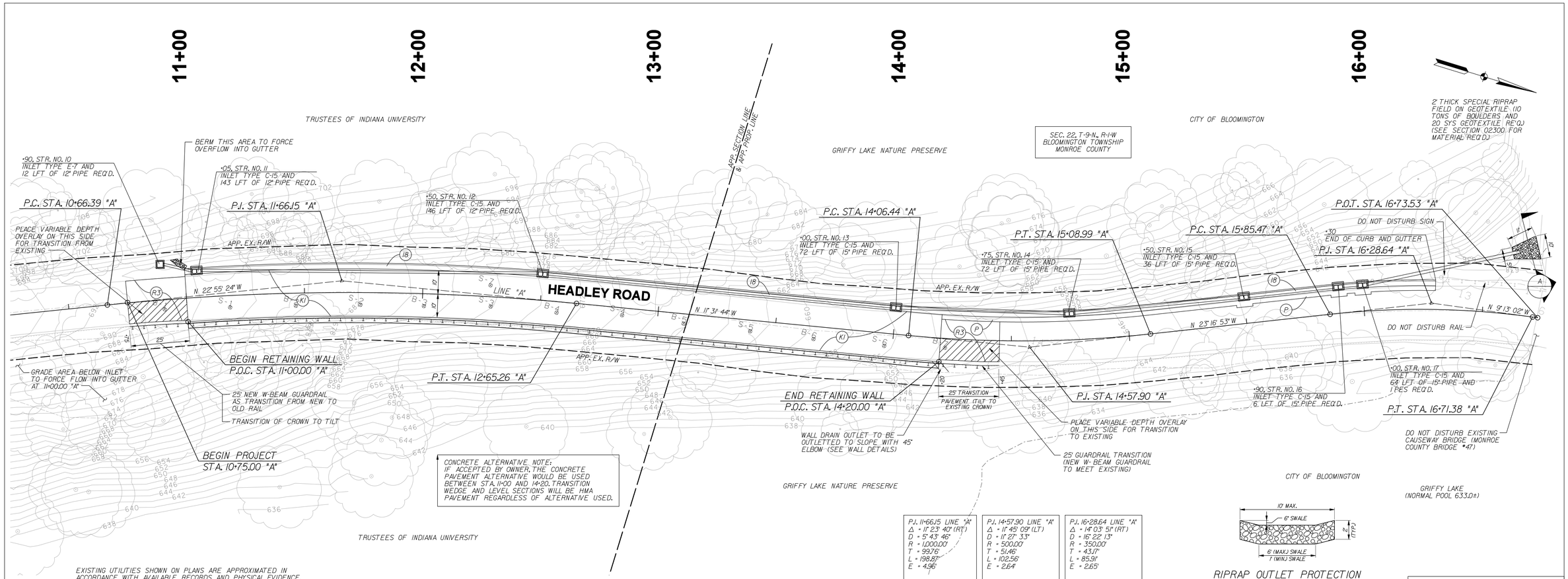

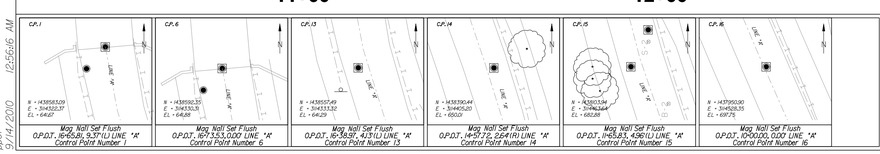

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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE 9/15/10

DESIGNED: BR | DRAWN: SI
CHECKED: MW | CHECKED: BR

CITY OF BLOOMINGTON

PLAN AND PLOT

HORIZONAL SCALE	BRIDGE FILE
1" = 20'-0"	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'-0"	N/A
SURVEY BOOK	SHEETS
N/A	6 of 22
CONTRACT	PROJECT
LOCAL	HEADLEY ROAD

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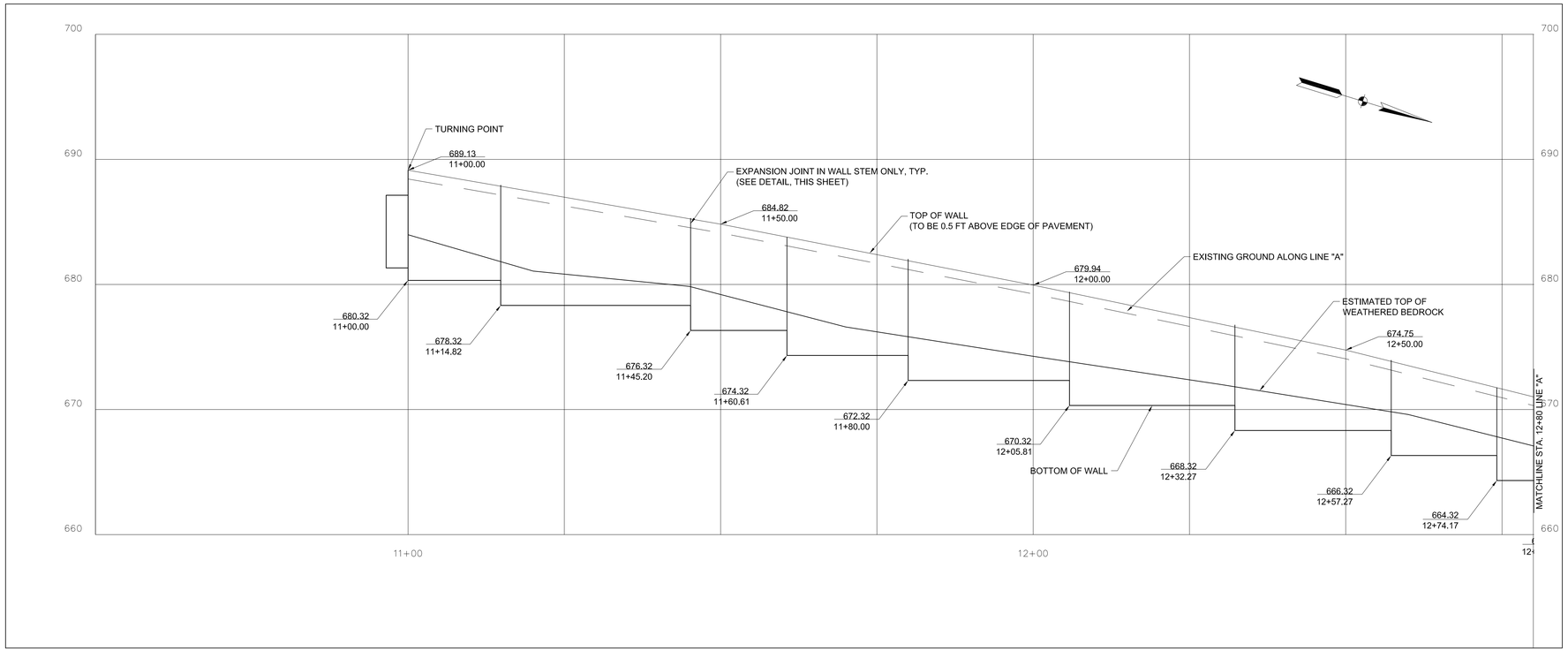
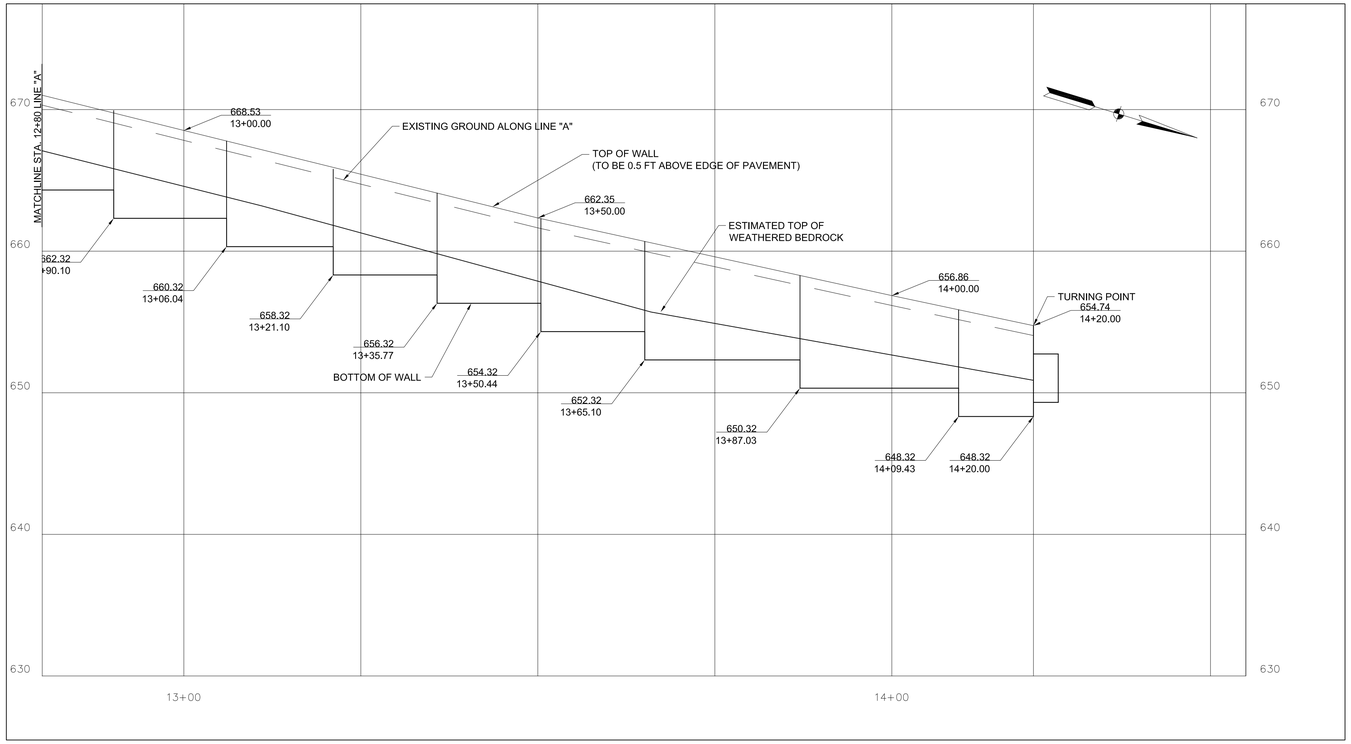
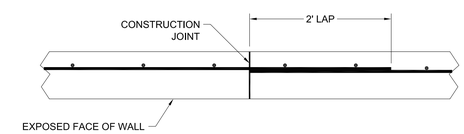
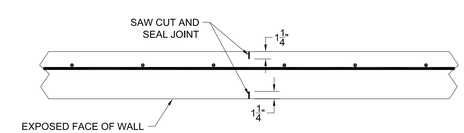






CONSTRUCTION JOINT DETAIL
(SCALE: 1" = 1')



EXPANSION JOINT DETAIL
(SCALE: 1" = 1')

NOTE:

1. THE COST OF THE REINFORCING BARS SHALL BE INCLUDED IN THE COST OF THE CONCRETE. NO MEASUREMENT FOR PAYMENT WILL BE MADE FOR REINFORCING BARS.

QUANTITIES - FOR ESTIMATING PURPOSES ONLY
(CONTRACTOR TO VERIFY)

MATERIAL	QTY
CONCRETE	123 CU. YD.
STRUCTURE BACKFILL	246 CU. YD.
B-BORROW	287 CU. YD.
COMMON EXCAVATION	520 CU. YD.
ROCK EXCAVATION	110 CU. YD.
LEAN CONCRETE	20 CU. YD.
W-BEAM GUARDRAIL (6'-3")	370 FT

$FILE$
$MODELNAME$ $TIME$
$DATE$

EARTH EXPLORATION Inc
7770 West New York Street
Indianapolis, IN 46214-2988
317-273-1690
(FAX) 317-273-2250

MICHAEL S. WIGGER REGISTERED No. 10404001 STATE OF INDIANA PROFESSIONAL ENGINEER

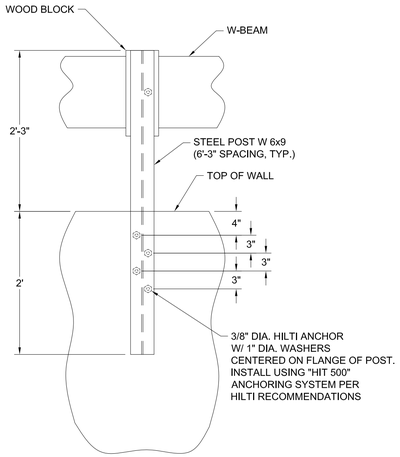
RECOMMENDED FOR APPROVAL: Michael S. Wigger — DESIGN ENGINEER — 9/15/10 DATE

DESIGNED: MSW | DRAWN: JBF
CHECKED: SJL | CHECKED: MSW

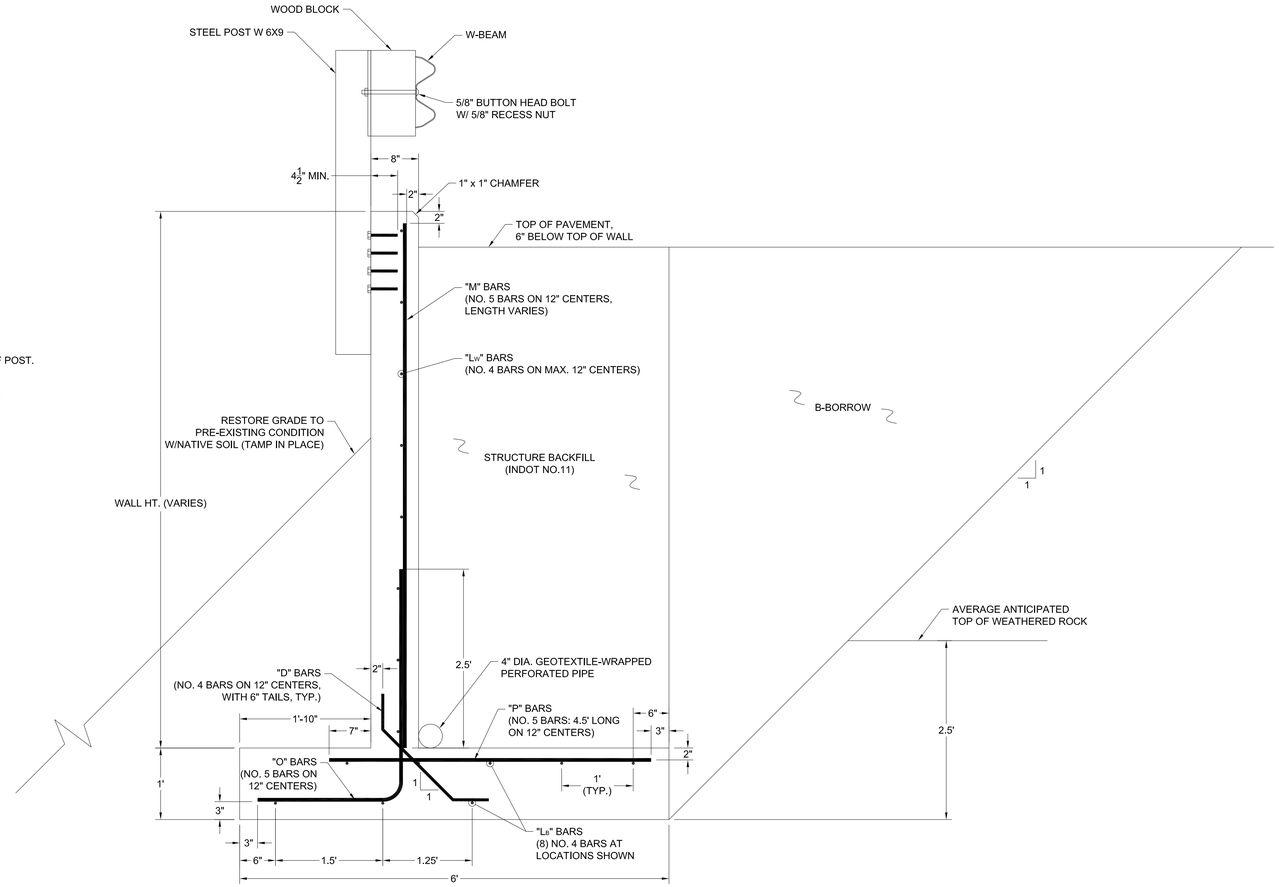
CITY OF BLOOMINGTON

RETAINING WALL ELEVATION & DETAILS

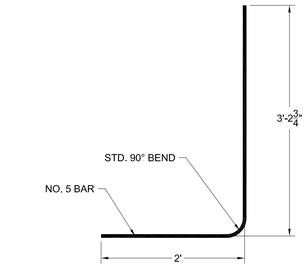
HORIZONAL SCALE	BRIDGE FILE
1" = 10'-0"	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	N/A
SURVEY BOOK	SHEETS
N/A	7 of 22
CONTRACT	PROJECT
LOCAL	HEADLEY ROAD



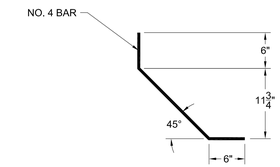
GUARDRAIL CONNECTION DETAIL



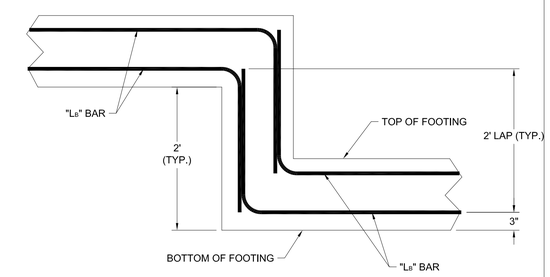
HEADLEY ROAD TYPICAL WALL CROSS SECTION



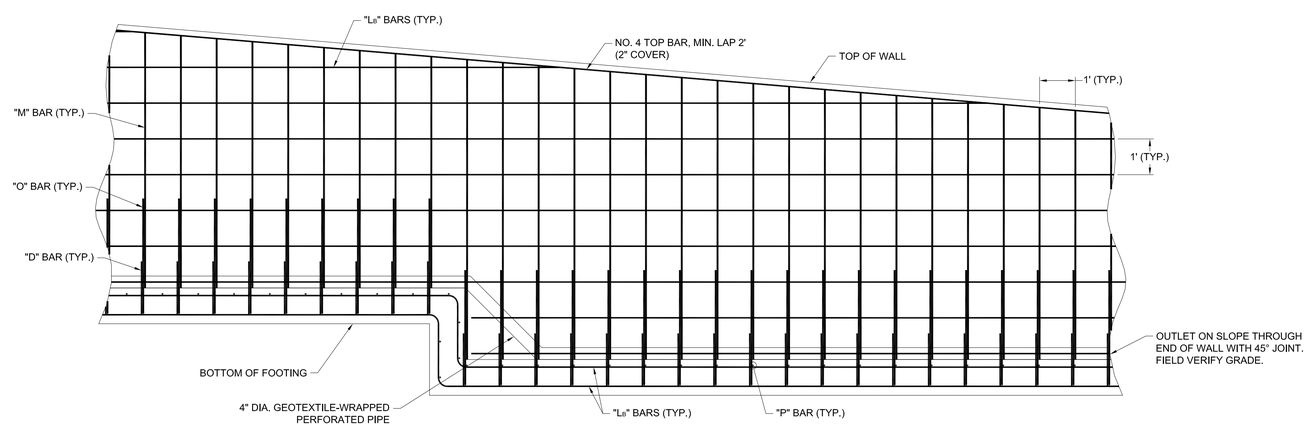
DETAIL - "O" BAR



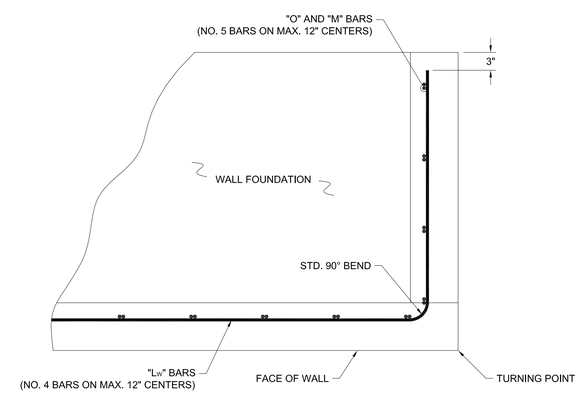
DETAIL - "D" BAR



REINFORCEMENT DETAIL AT
FOOTING STEP



TYPICAL ELEVATION VIEW FOR WALL REINFORCEMENT
(SCALE: 1" = 2')



WALL TURNING POINT DETAIL
(NORTH END SHOWN, SOUTH END IS MIRRORED)

$FILE$
$TIME$
$MODELNAME$
$DATE$

EARTH EXPLORATION
7770 West New York Street
Indianapolis, IN 46214-2988
317-273-1690
(FAX) 317-273-2250

MICHAEL S. WIGGER
REGISTERED
No. 10404001
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL	Michael S. Wigger — DESIGN ENGINEER	9/15/10 DATE	CITY OF BLOOMINGTON
DESIGNED: MSW	DRAWN: JBF		RETAINING WALL DETAILS
CHECKED: SJL	CHECKED: MSW		

HORIZONAL SCALE 1" = 1'-0"	BRIDGE FILE N/A
VERTICAL SCALE 1" = 1'-0"	DESIGNATION N/A
SURVEY BOOK N/A	SHEETS 8 of 22
CONTRACT	PROJECT
LOCAL	HEADLEY ROAD

STRUCTURE DATA TABLE

STRUCTURE NUMBER	LOCATION STATION	LOCATION LEFT	LOCATION RIGHT	LOCATION CROSS	SIZE	PIPE TYPE	MANHOLE, CATCH BASIN, INLET, OR SPECIALTY STRUCTURE	EAST JORDAN CASTING TYPE	LENGTH	SLOPE	COVER	FLOWLINE UP STREAM	FLOWLINE DOWN STREAM	APPROX. CASTING EL.	SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURAL BACKFILL	SPECIAL RIPRAP *	GEOTEXTILE	CONCRETE END SECTION	CONNECT TO STR.	REMARKS
					IN				FT	%	FT	ELEV.	ELEV.	ELEV.	YRS				CYS	TON	SYS	EACH		
10	10+90	X			12	RCP CLASS III	INLET E-7	7565	12.0	4.17	1.0	686.0	685.5	688.50	75	NON		1	2.4				11	
11	11+05	X			12	RCP CLASS III	INLET C-15	7565	143.0	10.07	1.0	685.4	671.0	688.15	75	NON		1	28.0				12	
12	12+50	X			12	RCP CLASS III	INLET C-15	7565	146.0	12.47	1.0	670.9	652.7	673.77	75	NON		1	28.7				13	
13	14+00	X			15	RCP CLASS III	INLET C-15	7565	72.0	10.56	1.0	652.6	645.0	655.88	75	NON		1	16.6				14	
14	14+75	X			15	RCP CLASS III	INLET C-15	7565	72.0	8.19	1.0	644.9	639.0	647.80	75	NON		1	16.6				15	
15	15+50	X			15	RCP CLASS III	INLET C-15	7565	36.0	3.61	1.0	638.5	637.2	641.70	75	NON		1	8.3				16	
16	15+90	X			15	RCP CLASS III	INLET C-15	7565	6.0	35.00	1.0	637.1	635.0	640.40	75	NON		1	1.4				17	
17	16+00	X			15	RCP CLASS III	INLET C-15	7565	64.0	0.78	1.0	634.5	634.0	640.30	75	NON		1	14.7	10	20	1 ea 15"	OUTLET	* SPECIAL RIPRAP REQ'D - SEE TECHNICAL SPECIFICATIONS
																			CYS	**TON**	**SYS**	**EACH**		
																	TOTALS:		117	10	20	1		

PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION STATION RANGES FROM	LOCATION STATION RANGES TO	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE COMPACTED AGGREGATE BASE	SURFACE BEYOND R/W LINE HMA	SURFACE BEYOND R/W LINE CONCRETE	GRADES FROM EDGE OF PAVEMENT (ALL HAVE 1.5" LIP AT EDGE OF DRIVE) 1	2	3	4	FULL DEPTH HMA SURFACE, Type A	FULL DEPTH HMA INTERMEDIATE, Type A	FULL DEPTH HMA	HMA FOR PATCHING HMA, TYPE A, SURFACE	OVERLAY, HMA SURFACE, TYPEA	OVERLAY, HMA WEDGE AND LEVEL, INTERMEDIATE, A	OVERLAY, HMA	COMPACTED AGG., #2 BEHIND CURBS		MILLING, 1.0"	PCCP FOR APPROACHES UNCOLORED, CLASS I DRIVE	PCCP FOR APPROACHES UNCOLORED, CLASS III DRIVE	FLOWABLE FILL (Undistributed) (Class A Concrete - Road Patching)	TACK COAT	COMPACTED AGGREGATE FOR BASE NO. 53 DEPTH 4"	COMPACTED AGGREGATE FOR BASE NO. 53 DEPTH 6"	COMPACTED AGGREGATE FOR BASE NO. 53 DEPTH 8"	REMARKS
														1.5"	4.5"		1.5"	1.5"	Varies												
														165#	495#		165#	165#	550# AVG		18"x24" AVG			6"	9"	12"		4"	6"	8"	
			FT	FT	FT	FT	SYS	SYS	SYS	%	%	%	%	SYS	SYS		SYS	SYS	SYS		CFT		SYS	SYS	SYS	CYS	SYS	SYS	SYS	SYS	
LINE A																															
10+75	11+00	Transition	20	25														56	28				56				56				Wedge and Level Assumed in Right Lane Only
11+00	14+20	Reconstruction w/Curb	20	320										711	711						960								711		
14+20	14+45	Transition w/Curb	20	25														56	28		75		56			2	56				Wedge and Level Assumed in Right Lane Only
14+45	16+30	Curb Only	1.5 AVG	185													31				555					10	31				
												SUBTOTALS:		711	711		31	112	56		1590								711		
														SYS	SYS		SYS	SYS	SYS		CFT								SYS		
										PAY QUANTITIES:				**59**	**176**		**3**	**9**	**15.4**		**99.4**		**112**			**12**	**143**		**200**		
										PAY UNITS				**TONS**	**TONS**		**TONS**	**TONS**	**TONS**		**TONS**		**SYS**			**CYS**	**SYS**		**TONS**		

ALL QUANTITIES ON THIS SHEET ARE FOR INFORMATION ONLY. CONTRACTOR IS TO PREPARE THEIR OWN QUANTITY TAKEOFF FOR BIDDING PURPOSES. ALL WORK SHOWN IS TO BE INCLUDED IN THE CONTRACT LUMP SUM PRICE.

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BROCK RIDGWAY REGISTERED No. 19300092 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 9/15/10 DATE

DESIGNED: BR DRAWN: SI
CHECKED: MW CHECKED: BR

CITY OF BLOOMINGTON

STRUCTURE DATA TABLE
PAVEMENT QUANTITIES TABLE

HORIZONAL SCALE	BRIDGE FILE
	N/A
VERTICAL SCALE	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	9 of 22
CONTRACT	PROJECT
LOCAL	HEADLEY ROAD

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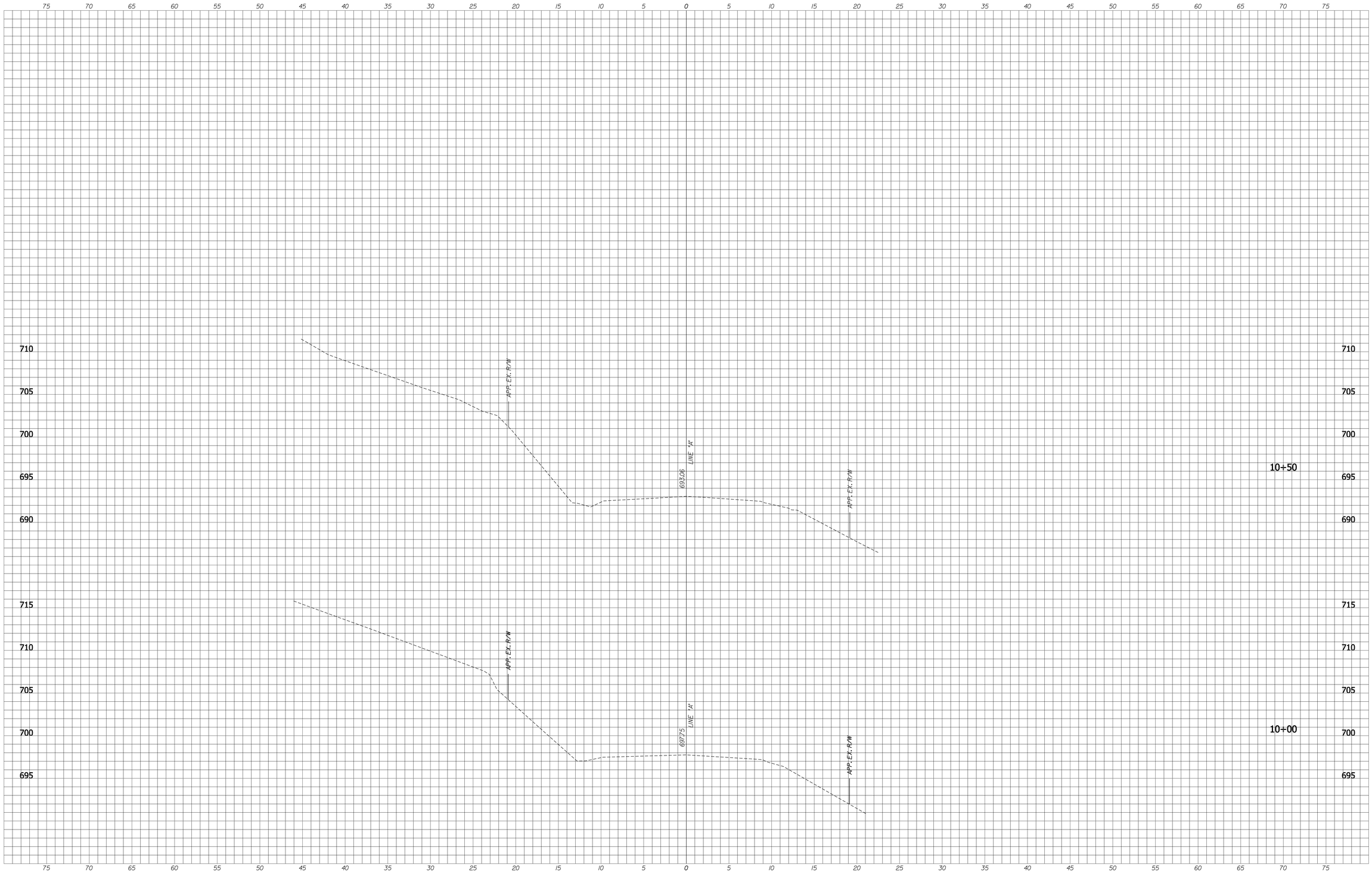

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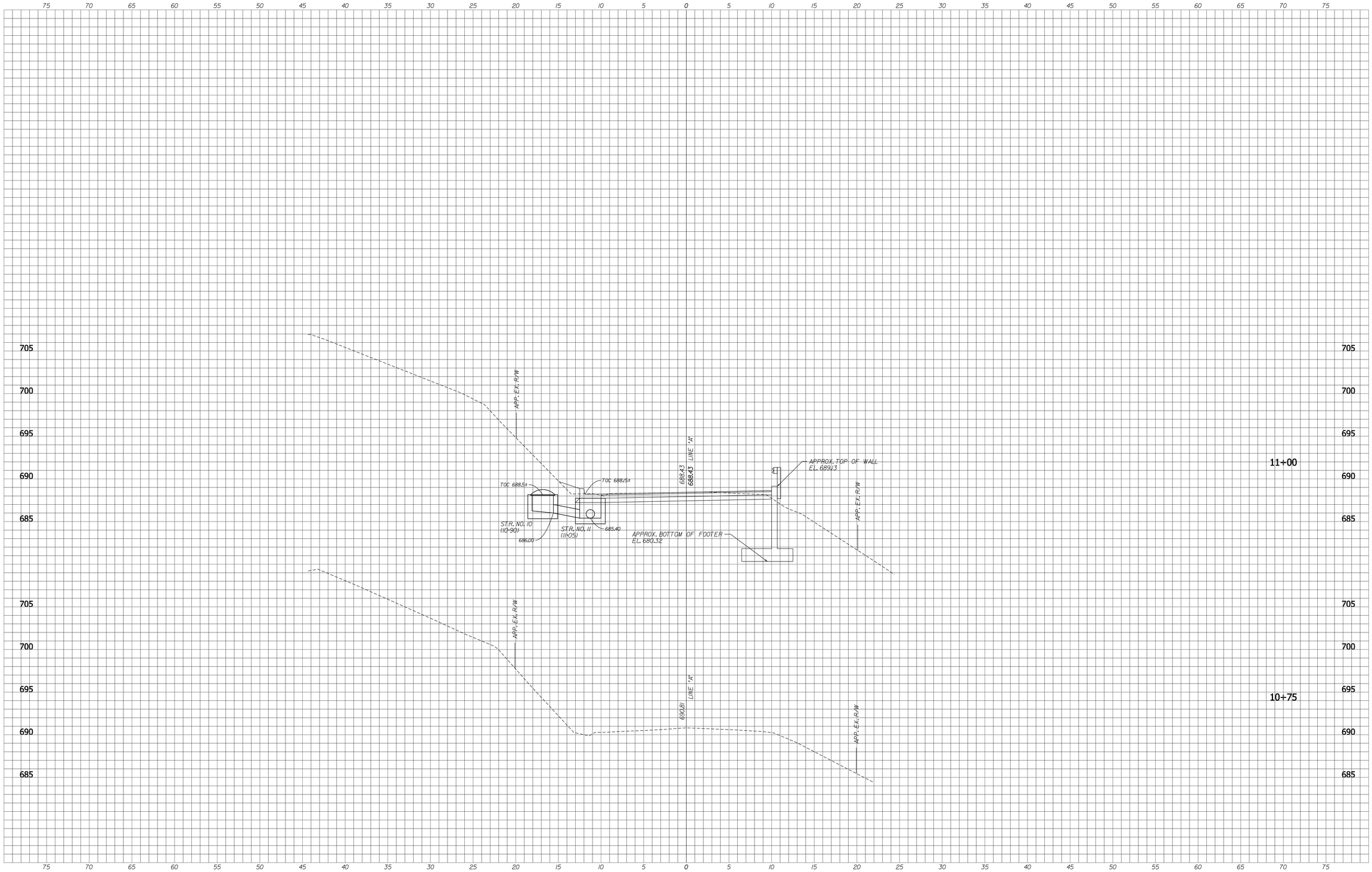
CHECKED: MW CHECKED: BR

CITY OF BLOOMINGTON

CROSS SECTIONS

HORIZONAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	10 of 22
CONTRACT	PROJECT
	0900213



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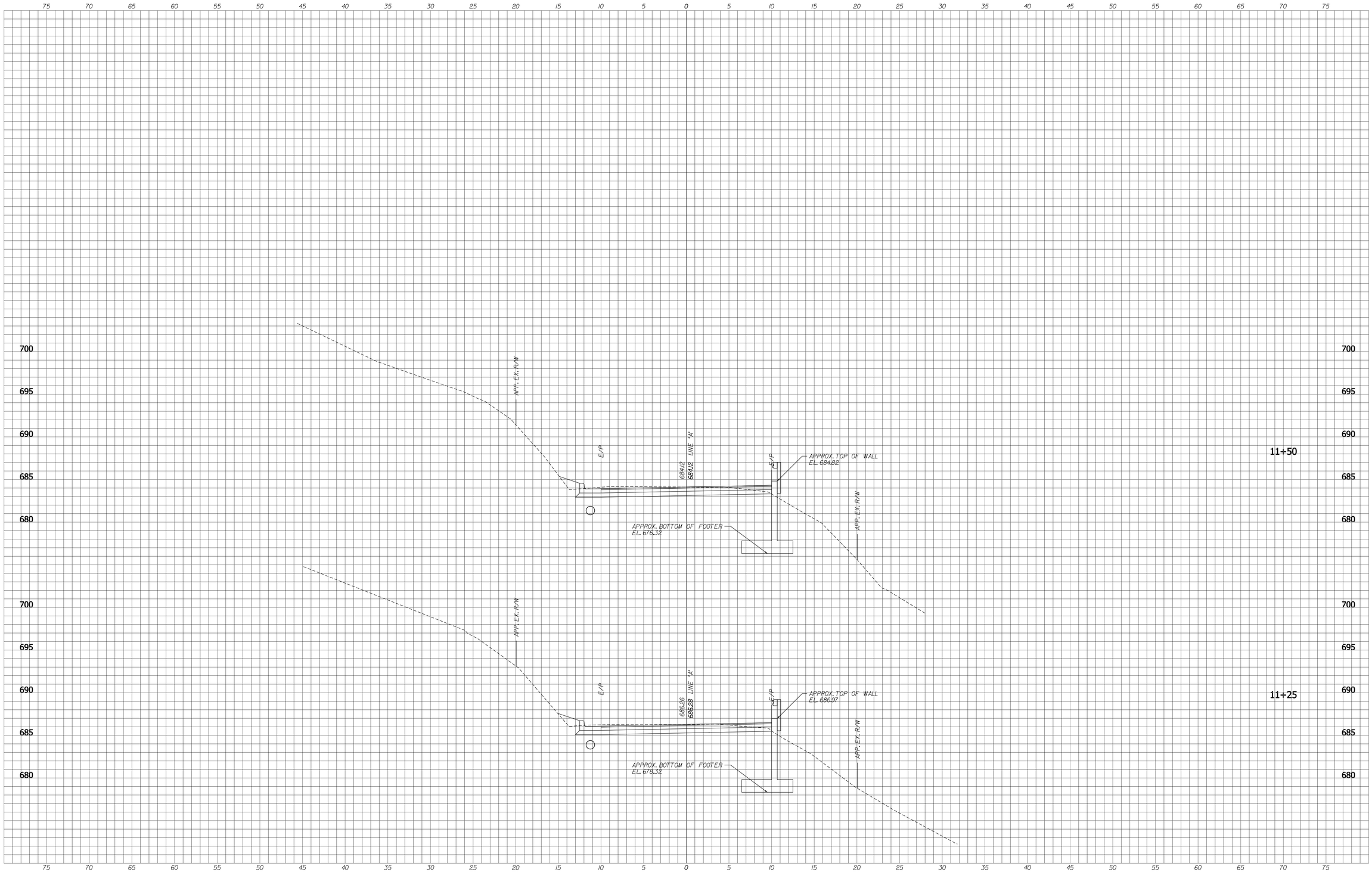
CHECKED: MW | CHECKED: BR

CITY OF BLOOMINGTON

CROSS SECTIONS

HORIZONAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	11 of 22
CONTRACT	PROJECT
	0900213



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CITY OF BLOOMINGTON

CROSS SECTIONS

HORIZONAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	12 of 22
CONTRACT	PROJECT
	0900213

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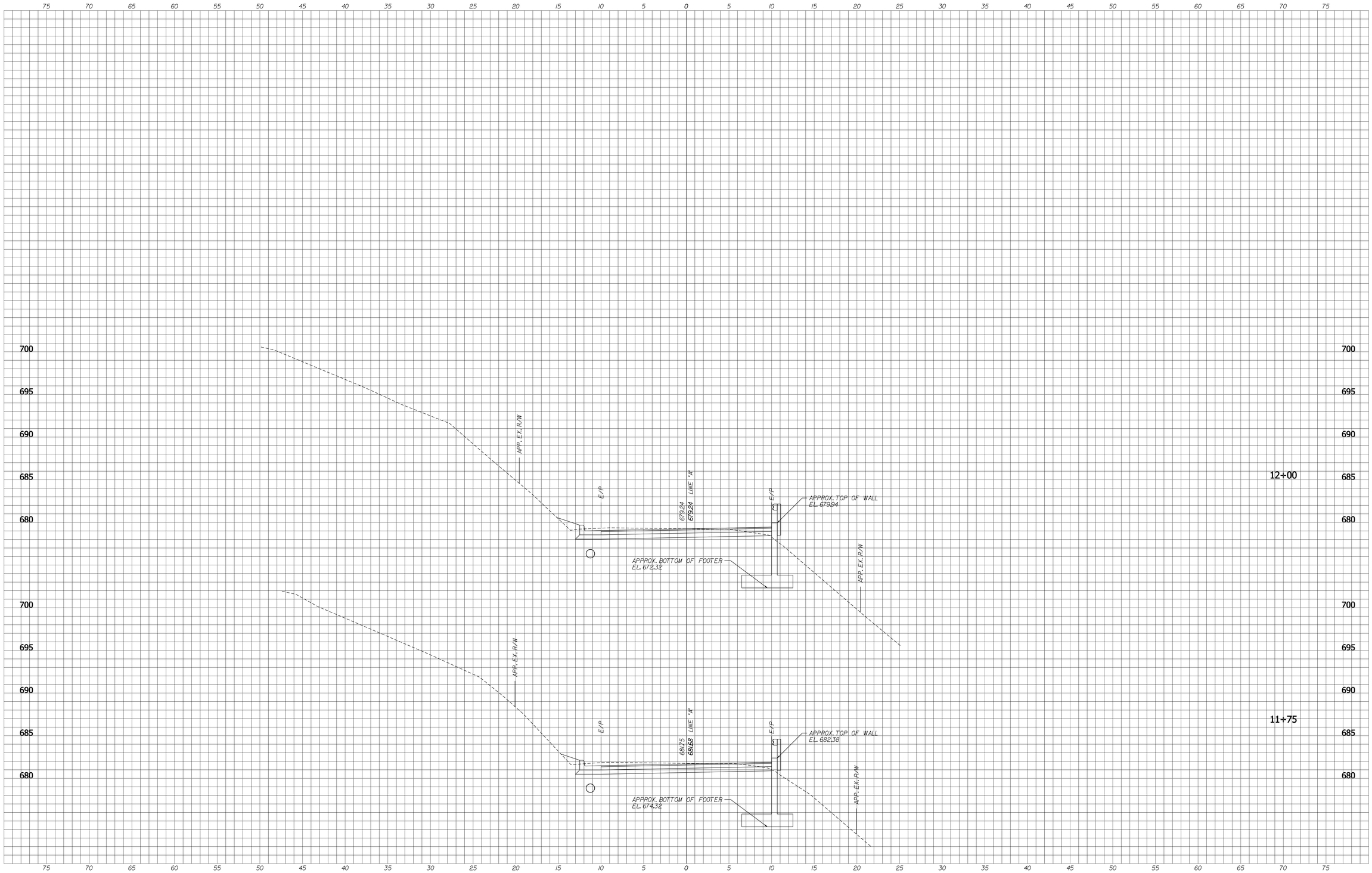

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CHECKED: MW CHECKED: BR

CITY OF BLOOMINGTON

CROSS SECTIONS

HORIZONAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	13 of 22
CONTRACT	PROJECT
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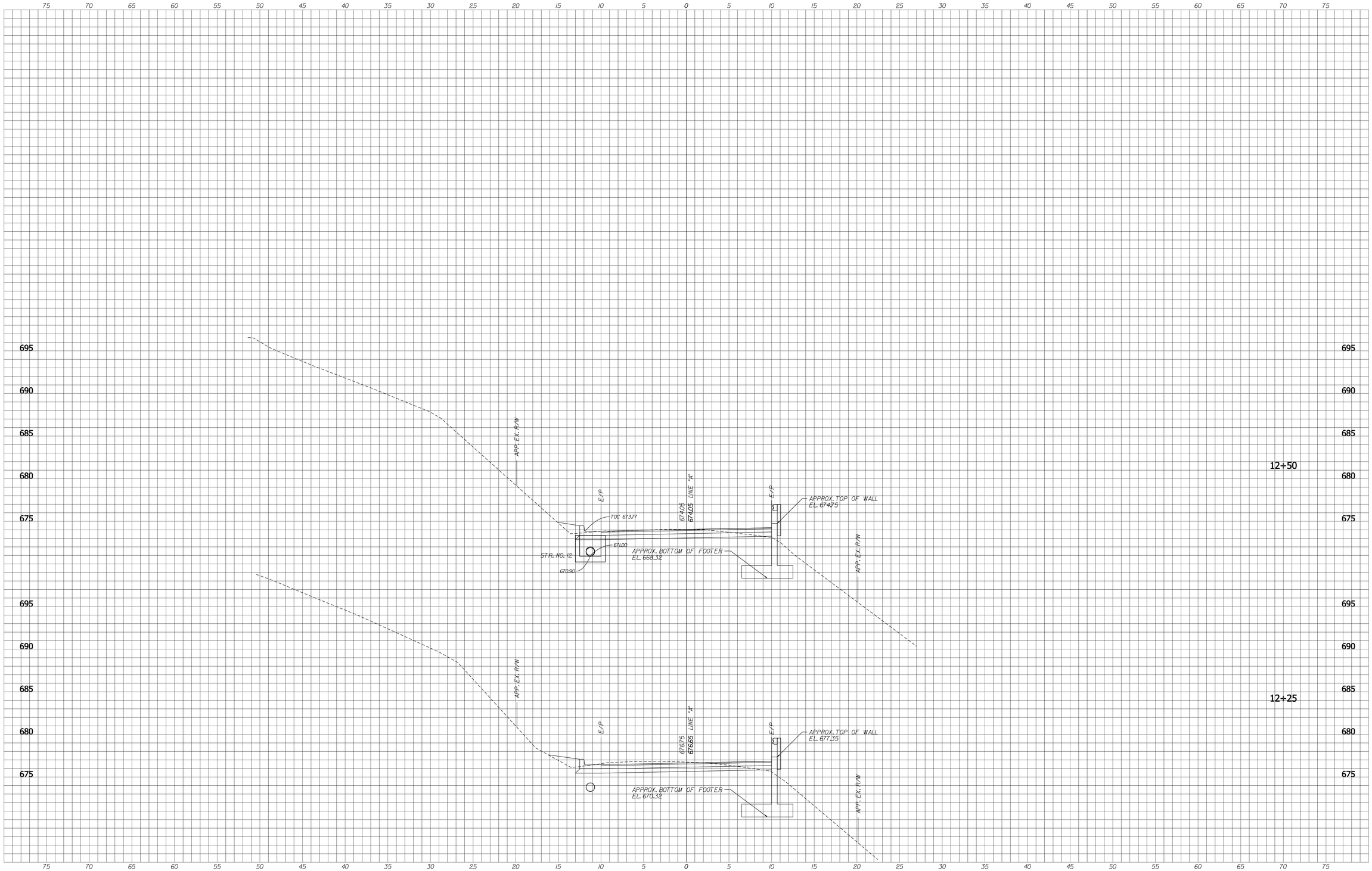

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CHECKED: MW CHECKED: BR

CITY OF BLOOMINGTON

CROSS SECTIONS

HORIZONAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEETS
	14 of 22
CONTRACT	PROJECT
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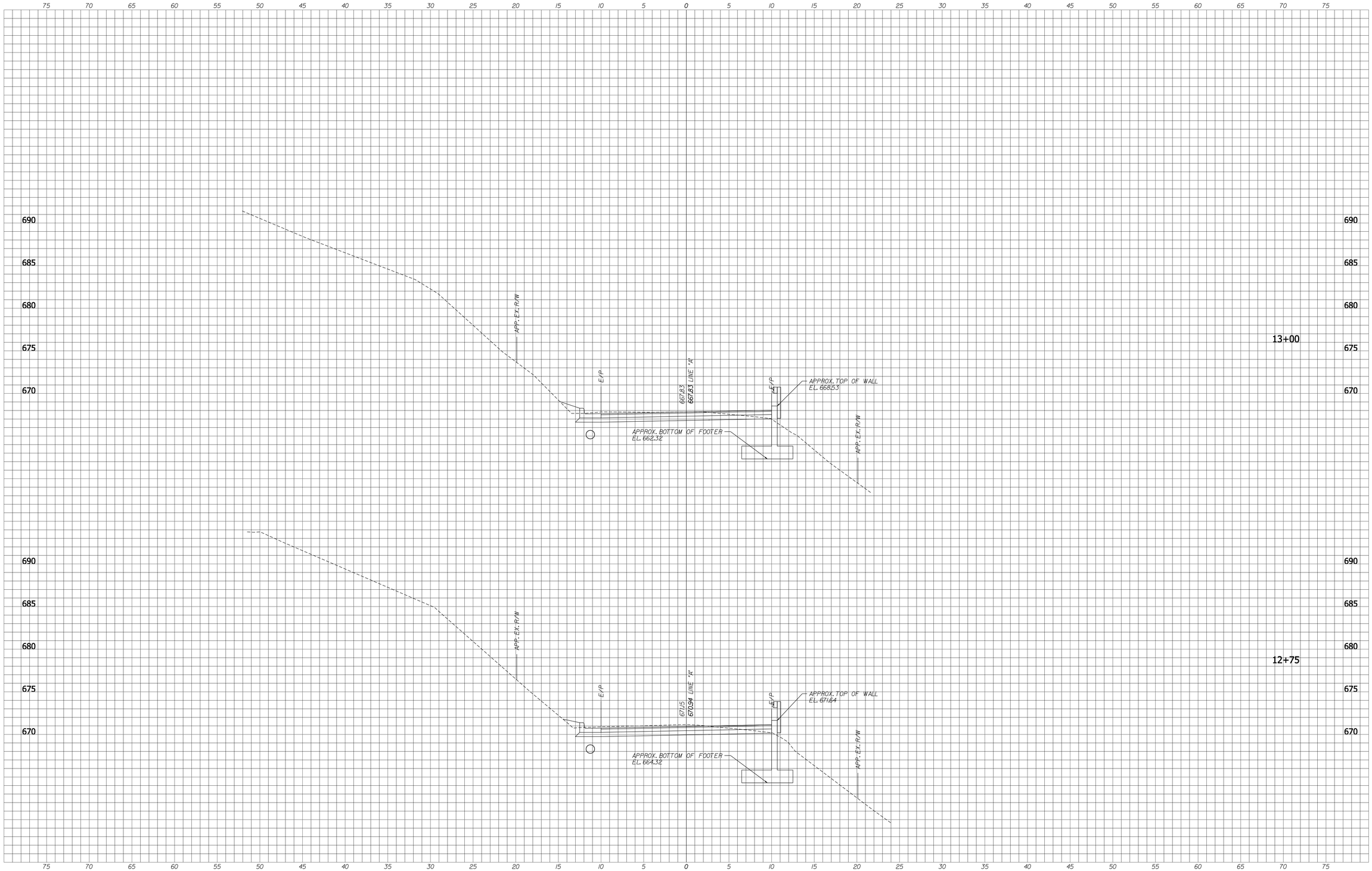

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BROCK RIDGWAY
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No. 19300092
STATE OF INDIANA
PROFESSIONAL ENGINEER

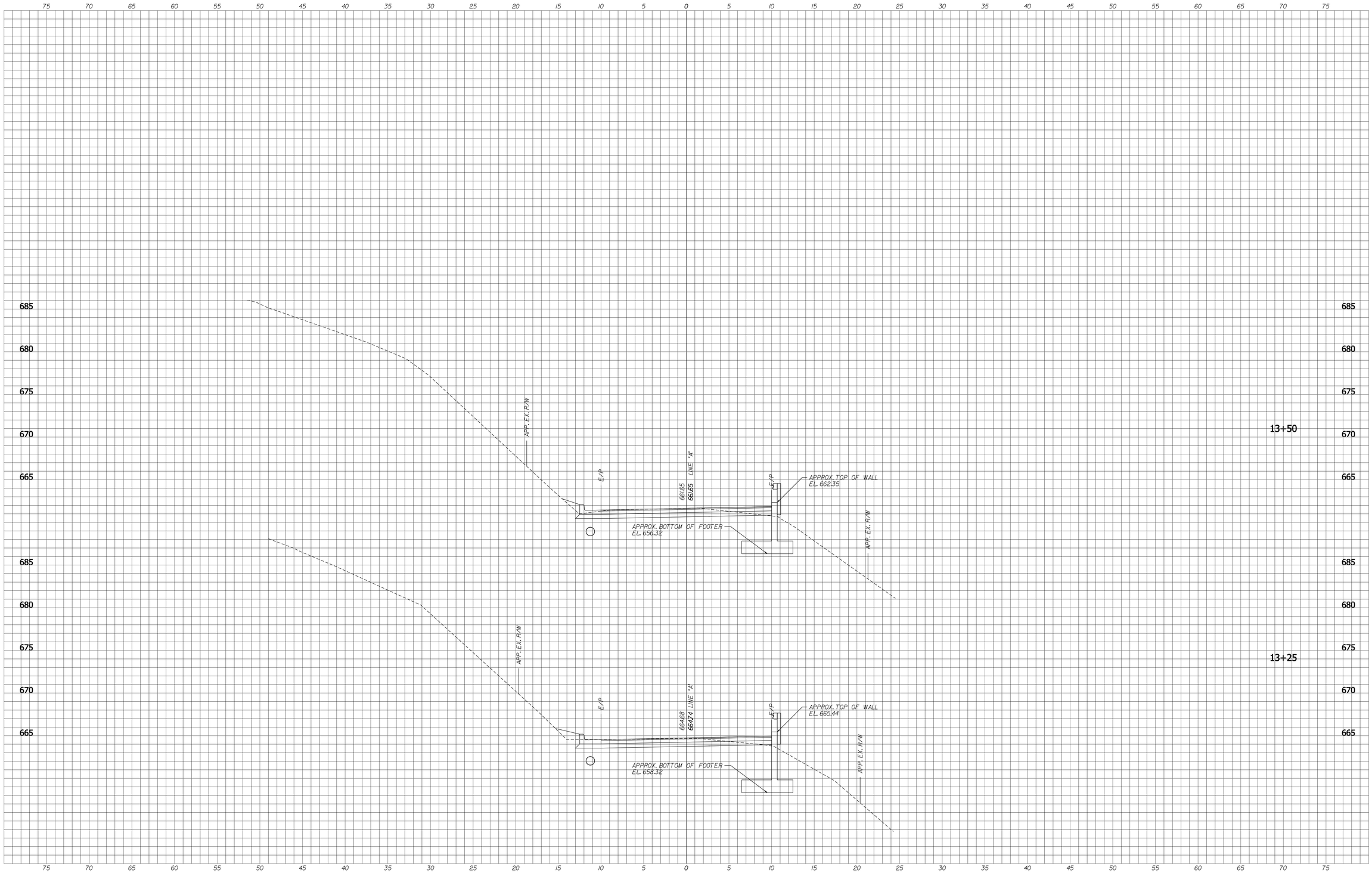
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 9/15/10 DATE

DESIGNED: BR DRAWN: SI
CHECKED: MW CHECKED: BR

CITY OF BLOOMINGTON

CROSS SECTIONS

HORIZONAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	15 of 22
CONTRACT	PROJECT
	0900213



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DESIGNED: BR | DRAWN: SI

CHECKED: MW | CHECKED: BR

CITY OF BLOOMINGTON

CROSS SECTIONS

HORIZONAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	16 of 22
CONTRACT	PROJECT
	0900213

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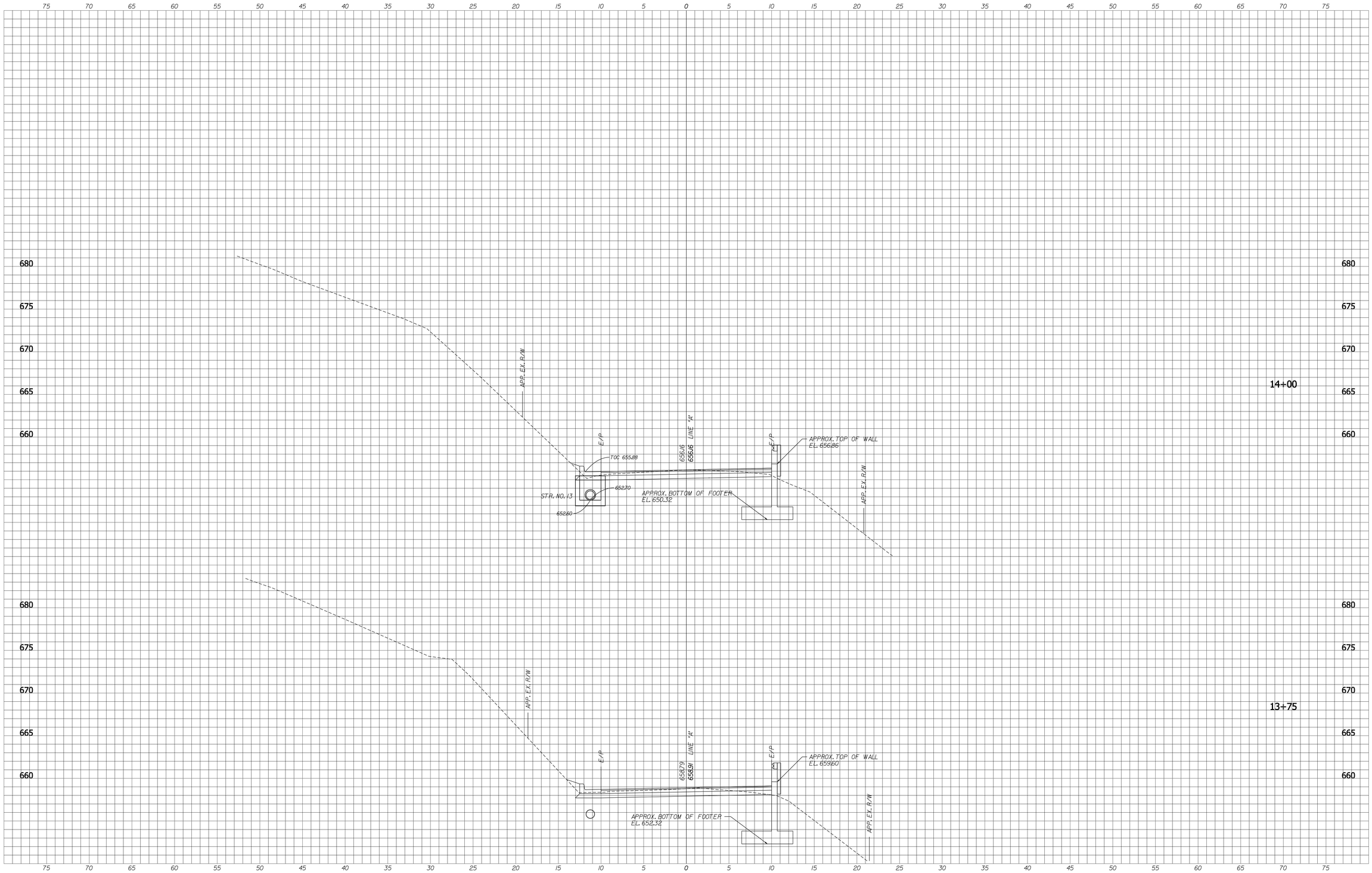

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CITY OF BLOOMINGTON

CROSS SECTIONS

HORIZONAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	17 of 22
CONTRACT	PROJECT
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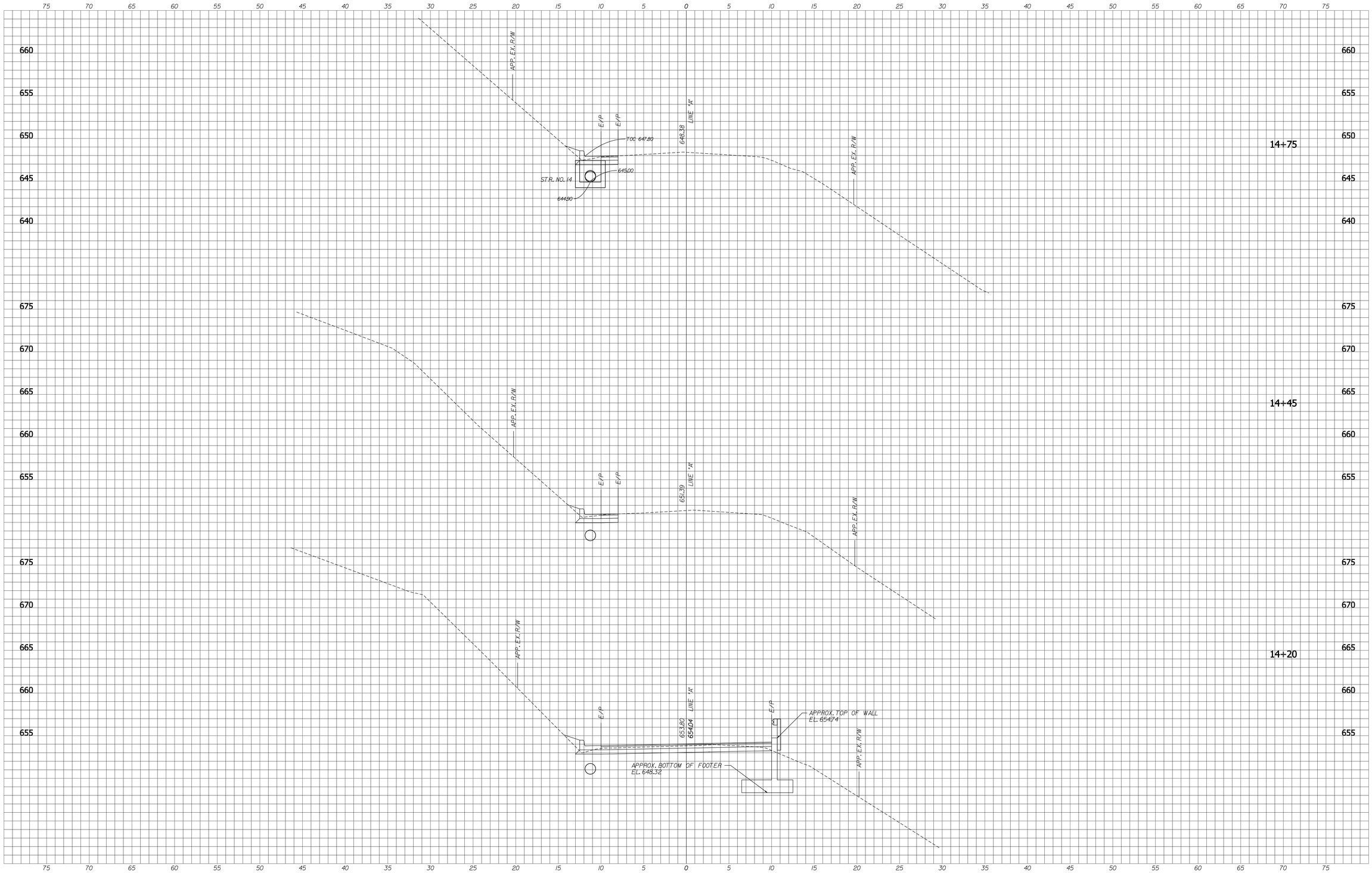

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CITY OF BLOOMINGTON

CROSS SECTIONS

HORIZONAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	18 of 22
CONTRACT	PROJECT
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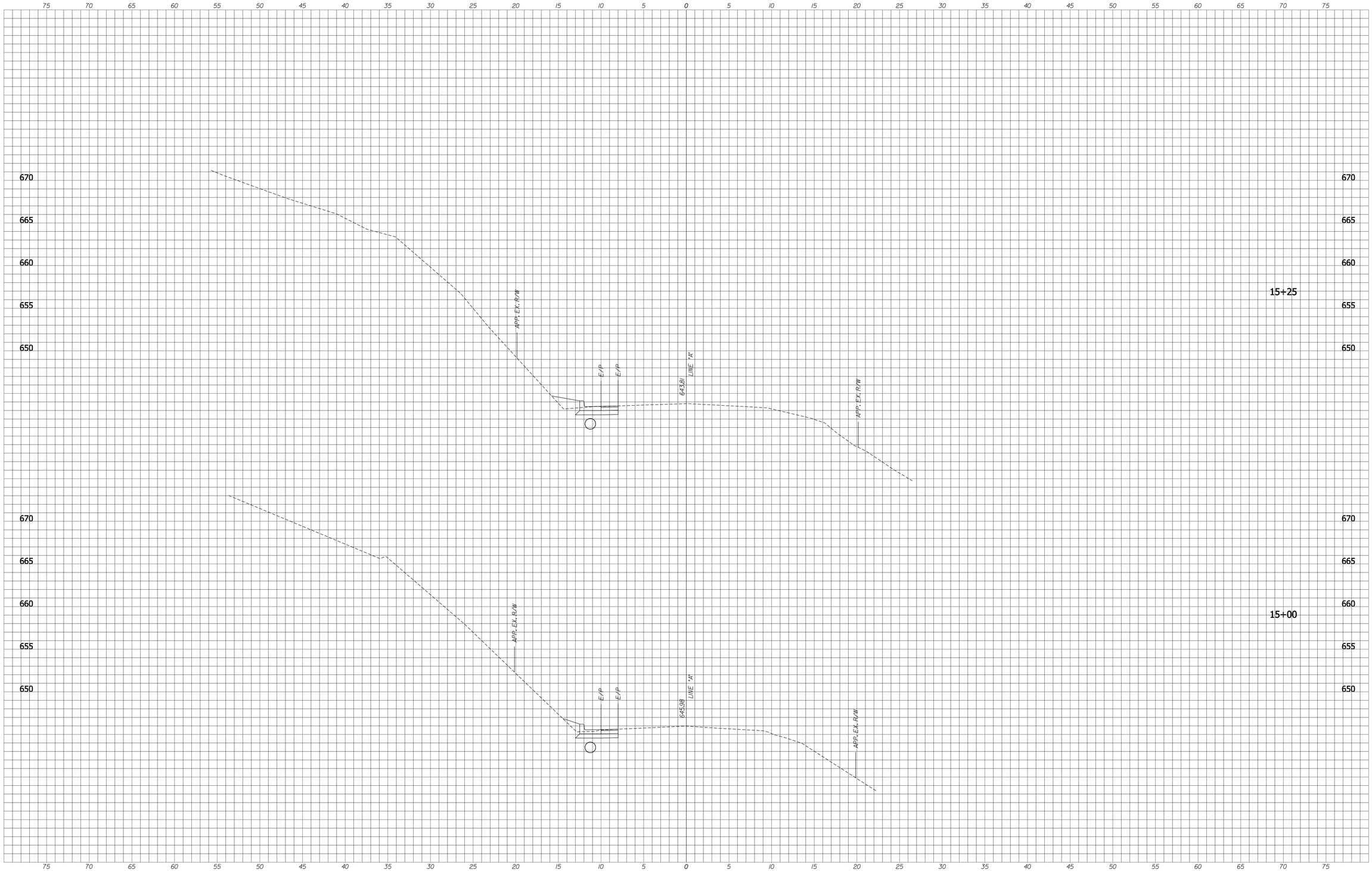

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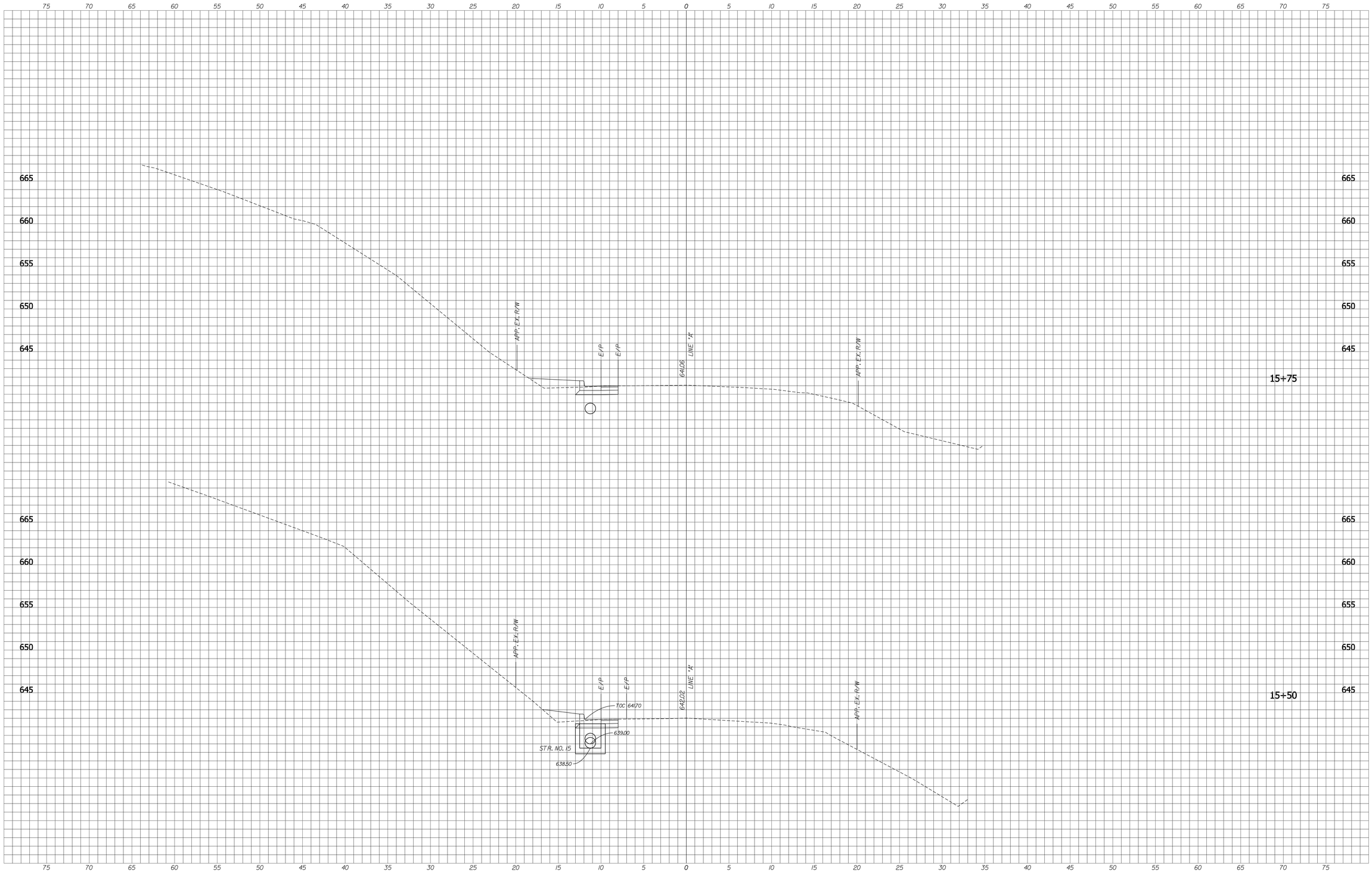
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 9/15/10 DATE

DESIGNED: BR DRAWN: SI
CHECKED: MW CHECKED: BR

CITY OF BLOOMINGTON

CROSS SECTIONS

HORIZONAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	19 of 22
CONTRACT	PROJECT
	0900213



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DESIGNED: BR DRAWN: SI

CHECKED: MW CHECKED: BR

CITY OF BLOOMINGTON

CROSS SECTIONS

HORIZONAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	20 of 22
CONTRACT	PROJECT
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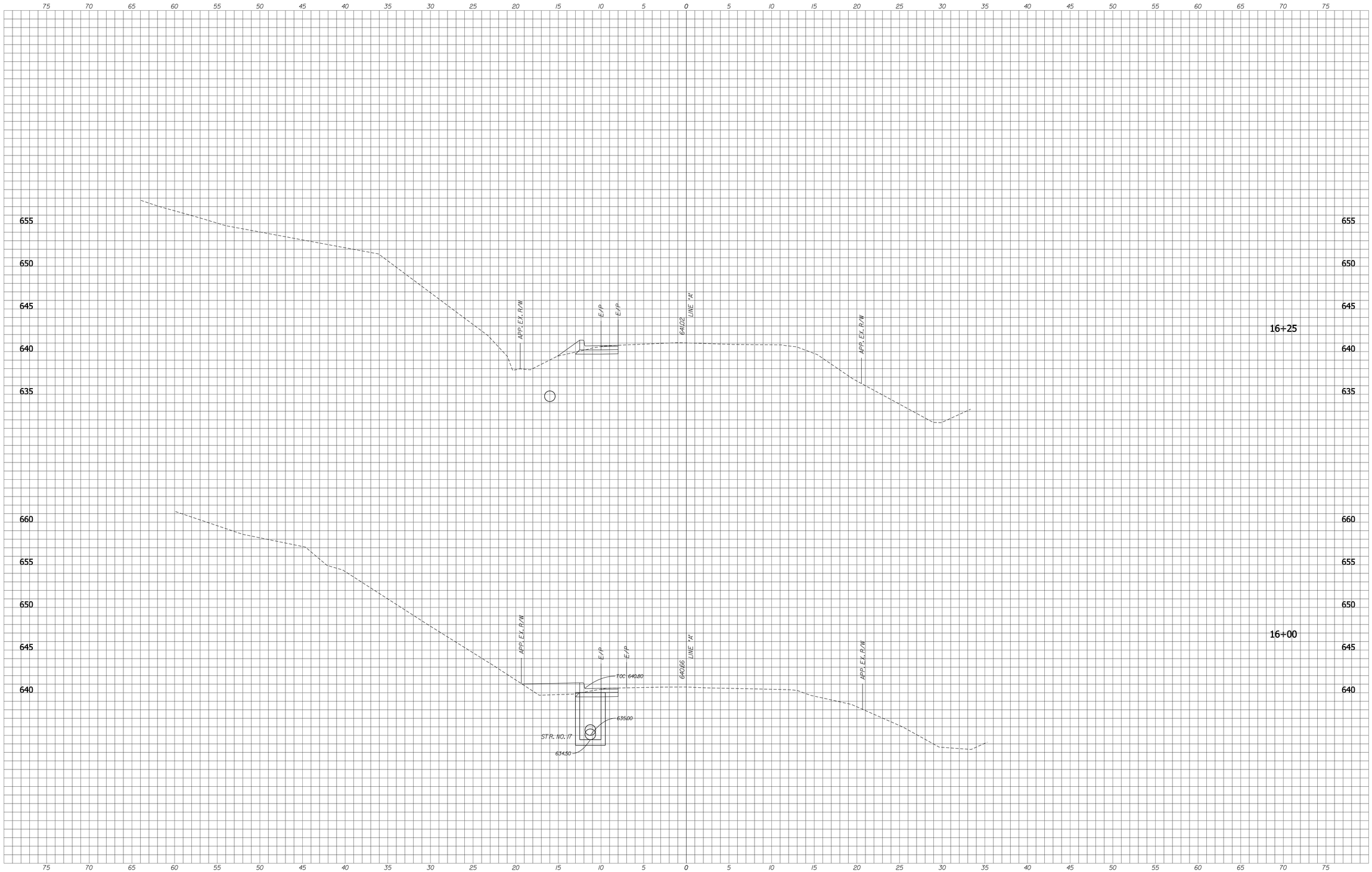

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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	9/15/10 DATE	
DESIGNED: BR	DRAWN: SI		
CHECKED: MW	CHECKED: BR		

CITY OF BLOOMINGTON

CROSS SECTIONS

HORIZONAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	21 of 22
CONTRACT	PROJECT
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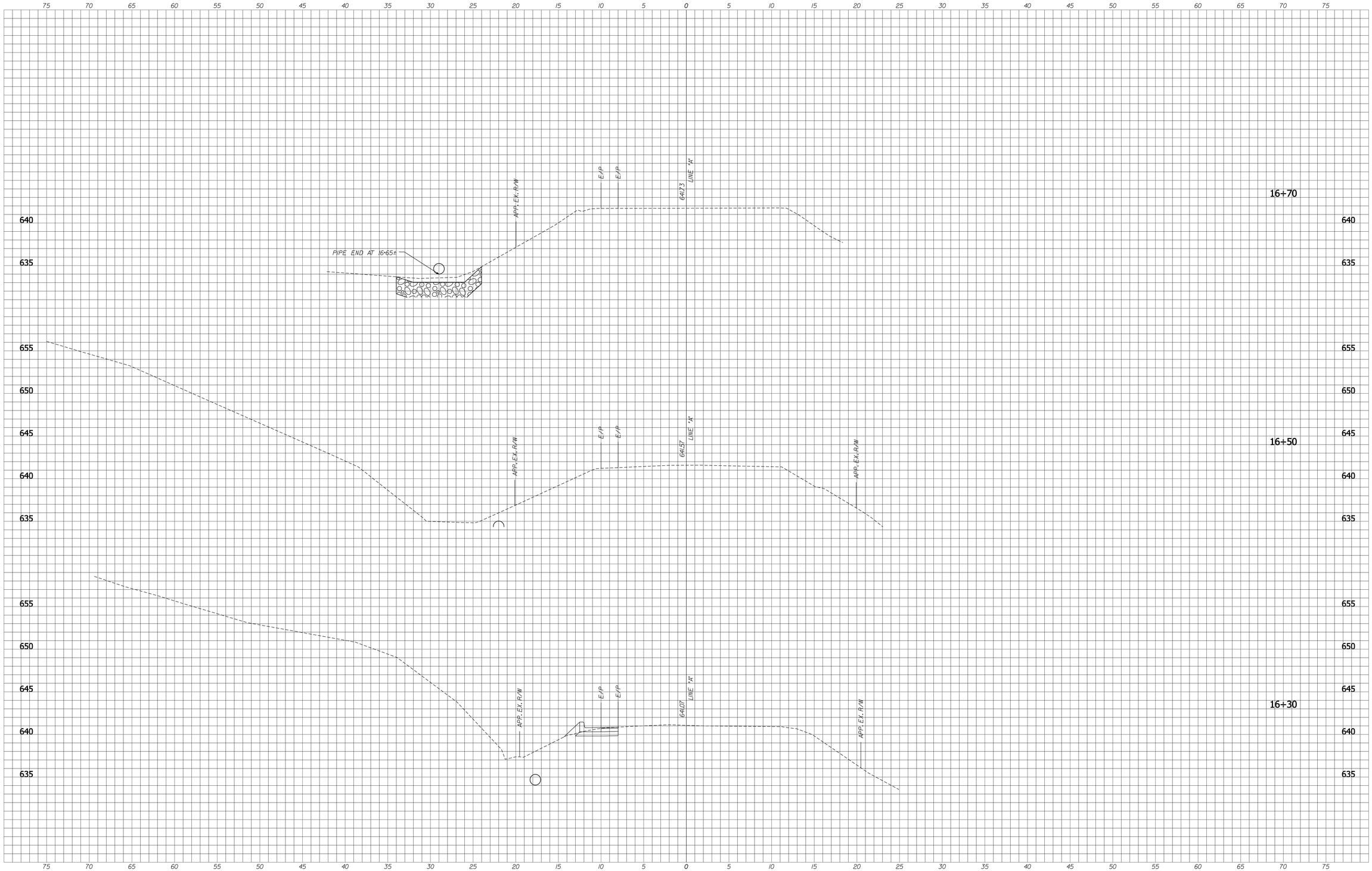

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CROSS SECTIONS

HORIZONAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	22 of 22
CONTRACT	PROJECT
	0900213