PROJECT	DESIGNATION
0900213	0900213
CONTRACT	
R-33668	

INDIANA DEPARTMENT OF TRANSPORTATION

ROAD PLANS

ROUNDABOUT AT SARE ROAD AND ROGERS ROAD

INTERSECTION IMPROVEMENT WITH STORM SEWERS, CURB AND GUTTER, SIDEWALKS, RECREATIONAL SIDEPATH AND WATER (TRANSMISSION) PIPING IN SECTIONS 11 AND 14, T-8-N, R-1-W, AT CITY LIMITS OF BLOOMINGTON, INDIANA, MONROE COUNTY, PERRY TOWNSHIP

LATITUDE: BEGIN 39°08'05" N; MIDDLE 39°08'09" N; END 39°08'19" N
LONGITUDE: BEGIN 86°29'48" W; MIDDLE 86°29'48" W; END 86°29'48" W

PROJECT NO. 0900213 CN

TRAFFIC DATA	SARE ROAD	ROGERS ROAD
A.A.D.T., 2011	10,437 V.P.D.	7,146 V.P.D.
A.A.D.T., 2031	13,477 V.P.D.	9,228 V.P.D.
D.H.V. 2031	1,258 V.P.H.	882 V.P.H.
DIRECTIONAL DISTRIBUTION	50/50	50/50
TRUCKS	2.0% (A.A.D.T./D.H.V.)	2.0% (A.A.D.T./D.H.V.)
DESIGN DATA		
DESIGN SPEED	40 M.P.H.	40 M.P.H.
PROJECT DESIGN CRITERIA	3R NON-FREEWAY	3R NON-FREEWAY
FUNCTIONAL CLASSIFICATION	LOCAL PRINCIPAL ARTERIAL	LOCAL SECONDARY ARTERIAL
RURAL/URBAN	URBAN (SUBURBAN)	URBAN (SUBURBAN)
TERRAIN	ROLLING	ROLLING
ACCESS CONTROL	NONE	NONE

CITY OF BLOOMINGTON

HON. MARK KRUZAN, MAYOR

BOARD OF PUBLIC WORKS

CHARLOTTE ZIETLOW, PRESIDENT

JAMES McNAMARA, VICE PRESIDENT

DR. FRANK HRISOMALOS, SECRETARY

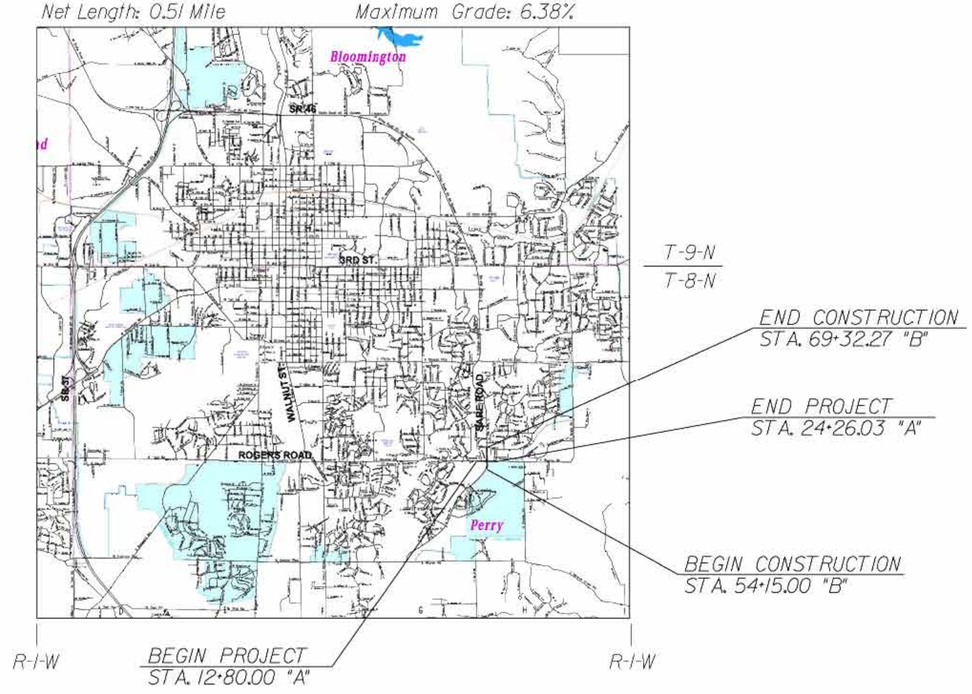
DEPARTMENT OF PUBLIC WORKS

SUSIE JOHNSON, DIRECTOR

JUSTIN WYKOFF, MANAGER, ENGINEERING SERVICES

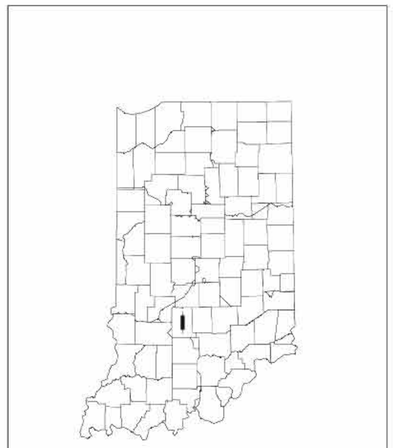
ADRIAN REID, P.E., CITY ENGINEER

Gross Length: 0.51 Mile
Net Length: 0.51 Mile
Maximum Grade: 6.38%



0 1 MILE

PROJECT LOCATION MAP
CITY OF BLOOMINGTON, MONROE COUNTY



PROJECT LOCATION SHOWN BY

STAGE 3 PLANS FOR REVIEW ONLY

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2010
TO BE USED WITH THESE PLANS

STAGE 3 PLANS

ROUNDABOUT AT SARE ROAD AND ROGERS ROAD, BLOOMINGTON

PREPARED BY:
EAGLE RIDGE CIVIL ENGINEERING SERVICES, LLC
1321 Laurel Oak Drive
Avon, Indiana 46123
(317)370-9672

PLANS PREPARED BY: EAGLE RIDGE CIVIL ENGINEERING SERVICES, LLC (317) 370-9672 PHONE NUMBER

CERTIFIED BY: BROCK RIDGWAY, P.E. DATE

APPROVED FOR LETTING: DATE

DESIGNATION
0900213

SURVEY BOOK	SHEETS
	1 of 54
CONTRACT	PROJECT
R-33668	0900213

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

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

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

DUKE ENERGY (TRANSMISSION)
ATTN: MIKE GOODART
2727 CENTRAL AVE.
COLUMBUS, IN 47201
(812) 375-2055

WATER
CITY OF BLOOMINGTON UTILITIES
ATTN: MIKE HICKS
600 E. MILLER DRIVE
BLOOMINGTON, IN 47401
(812) 349-3623

STORM/SANITARY
CITY OF BLOOMINGTON UTILITIES
ATTN: PHIL PEDEN
600 E. MILLER DRIVE
BLOOMINGTON, IN 47401
(812) 349-3634

TELEPHONE/COMMUNICATIONS
AT & T
PRIMARY: JOHN HALL
(812) 334-4742
ALT: 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

REVISIONS

SHEET NO.	DATE	REVISED

GENERAL NOTES

*	ALL EARTH SHOULDERS, MEDIAN AREAS, AND CUT OR FILL SLOPES SHALL BE PLAIN OR MULCH SEEDED EXCEPT WHERE SODDING IS SPECIFIED.
	THE FINAL CROSS SECTIONS OF THE GRADING CONTRACT WILL BE THE ORIGINAL CROSS SECTIONS OF THE PAVING CONTRACT. HOWEVER, PARTIAL OR COMPLETE CROSS SECTIONS SHALL BE TAKEN IF NECESSARY TO DETERMINE THE ACTUAL EXCAVATION QUANTITIES.
	THE PAPER RELOCATION WILL BE CROSS-SECTIONED BY THE ENGINEER BEFORE CONSTRUCTION.
	EXISTING ASPHALT PAVEMENT LOCATED OUTSIDE THE CONSTRUCTION LIMITS BETWEEN STA. AND STA. , SHALL BE REMOVED AS DIRECTED.
	THE QUANTITY OF PEAT EXCAVATION SHOWN ON THE PLANS HAS BEEN ESTIMATED ON THE BASIS OF THEORETICAL CROSS SECTIONS BY USING TREATMENT OF EXISTING FILLS, TREATMENT BY REMOVAL OR TREATMENT BY DISPLACEMENT, WHERE EACH TREATMENT APPLIES.
	ALUMINUM BAS BRACING (1/4" X 1" X LENGTH REQUIRED) WILL BE REQUIRED ON ALL SQUARE POST MOUNTED SIGNS EXCEEDING 60" IN LENGTH.
*	POST LENGTHS ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE POST LENGTHS REQUIRED TO ASSURE THAT THE SIGNS ARE INSTALLED WITH THE MOUNTING HEIGHT BEING IN ACCORDANCE WITH THE MICELLANEOUS TRAFFIC STANDARD DETAILS SHEETS.
*	UNLESS OTHERWISE NOTED IN THESE PLANS, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL REQUIRED FOR THE COMPLETE INSTALLATION OF THE SIGNS AND SIGN SUPPORTS. SHEET SIGNS AND POSTS ARE NOT TO BE ORDERED UNTIL THE EXACT NUMBER OF SIGNS AND LENGTH OF EACH POST HAS BEEN DETERMINED UPON FIELD INVESTIGATION.
*	ALL SIGNS SHALL BE MARKED FOR IDENTIFICATION. THE MARKING MATERIAL SHALL BE EITHER SCOTCH LITE, SEIBULITE, REFLEXITE OR APPROVED EQUAL. THE IDENTIFYING MESSAGE SHALL CONSIST OF INDOT AND THE MONTH AND YEAR THE SIGN IS INSTALLED. THE MESSAGE COPY SHALL CONSIST OF BLACK OR WHITE LETTERING ON THE WHITE OR BLACK BACKGROUND RESPECTIVELY AND BE OF A MINIMUM OF 1" IN HEIGHT. THE MARKING FOR SHEET SIGNS SHALL BE PLACED IN THE LOWER CORNER CLOSEST TO THE CENTER LINE OF THE ROAD. THE MARKING SHALL NOT BE COVERED BY THE SIGN'S SUPPORT AFTER INSTALLATION OF THE SIGN.
*	STOP SIGN SHALL NOT BE REMOVED UNTIL THE NEW ONE IS AT THE JOB SITE AND READY TO BE INSTALLED. SIGNS SHALL BE SEEN BY TRAVEL MOTORISTS AT ALL TIMES.
	ALL DESIGN SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS (LATEST EDITION).

* NOTE APPLIES TO THIS CONTRACT

INDEX

SHEET NO.	DRAWINGS INDEX
1	TITLE SHEET
2	GENERAL NOTES / UTILITIES / INDEX / LEGEND
3 - 4	TYPICAL CROSS SECTIONS AND DETAILS
5	MAINTENANCE OF TRAFFIC DETOUR ROUTE AND SIGNAGE
6 - 9	EROSION CONTROL PLANS
10 - 15	PLAN AND PROFILES
16	ROUNDABOUT DETAIL AND GRADING PLAN
17 - 18	LANDSCAPING/PLANTING PLANS
19	LIGHTING PLAN AND DETAILS
20	RETAINING WALL DETAILS
21	ROUNDABOUT CENTER ISLAND LAYOUT / LANDSCAPING DETAILS
22 - 23	SIGN AND PAVEMENT MARKING PLANS
24 - 25	SIGN SUMMARY
26	WATERMAIN DETAILS
27	MISCELLANEOUS SUMMARY OF QUANTITIES
28	PAVEMENT QUANTITIES AND APPROACH TABLE
29	UNDERDRAIN TABLE
30 - 31	STRUCTURE DATA AND PIPE MATERIAL TABLES
32 - 54	CROSS SECTIONS

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
- CLEAN OUT
- MANHOLE (STORM, SANITARY OR COMBINED)
- STORM / SANITARY SEWER
- UNDERGROUND ELECTRIC
- TELEPHONE LINE
- OVERHEAD UTILITY
- WATER LINE
- 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
- PROPOSED LIGHT POLE
- NEW TREES
- PR — POLE REMOVAL OR RELOCATION BY UTILITY
- EXISTING PAVEMENT TO BE REMOVED
- PROPOSED PIPE/MANHOLE
- PROPOSED STONE WALL

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

- A1 — FULL DEPTH CONCRETE PAVEMENT
  9" PCCP, ON
  3" No. 8 AGGREGATE (DRAINAGE LAYER), ON
  6" No. 53s COMPACTED AGGREGATE
  ON SUBGRADE TREATMENT, TYPE 1
- A2 — FULL DEPTH CONCRETE PAVEMENT
  9" PCCP, ON
  3" No. 8 AGGREGATE (DRAINAGE LAYER), ON
  6" No. 53s COMPACTED AGGREGATE
  ON SUBGRADE TREATMENT, TYPE 1
  EXCEPT TO BE COLORED CONCRETE
- B1 — BRICK PAVERS OVER CRUSHED AGGREGATE *8s.
  PRIMARY COLOR (RED)
- B2 — BRICK PAVERS OVER CRUSHED AGGREGATE *8s.
  SECONDARY COLOR (TAN)
- C1 — 6" CONCRETE PAVEMENT FOR DRIVES ON 6"
  COMPACTED AGGREGATE BASE NO.53S (CLASS 1)
- C3 — 9" CONCRETE PAVEMENT FOR DRIVES ON 6"
  COMPACTED AGGREGATE BASE No.53 (CLASS III
  DRIVES AND ALLEYS)
- CL — APPROXIMATE CONSTRUCTION LIMITS
- F — CONCRETE SIDEWALK (PAID AS SIDEWALK, 4")
- K1 — FULL DEPTH HMA PAVEMENT
  1.5" (165 lb/syd) HMA TYPE B SURFACE, ON
  2.5" (275 lb/syd) HMA TYPE B INTERMEDIATE, ON
  3" (330 lb/syd) HMA TYPE B BASE, ON
  3" (330 lb/syd) HMA TYPE OG INTERMEDIATE, ON
  3" (330 lb/syd) HMA TYPE B BASE, ON
  SUBGRADE TREATMENT, TYPE 1
- K3 — CONCRETE SIDEPATH PAVEMENT
  5" COLORED CONCRETE, ON
  4" COMPACTED AGGREGATE BASE No. 53s
- R1 — RESURFACING/OVERLAY SECTION
  1.5" (165 lb/syd) HMA TYPE B SURFACE, ON
  2.5" (275 lb/syd) HMA TYPE B INTERMEDIATE, ON
  TACK COAT AFTER
  1" SURFACE MILLING
- R3 — VARIABLE DEPTH WEDGE AND OVERLAY SECTION
  1.5" (165 lb/syd) HMA TYPE B SURFACE, ON
  VARIABLE DEPTH (4" MAX.) HMA TYPE B INTERMEDIATE, ON
  TACK COAT, ON
  1" SURFACE MILLING
- P — ROAD PATCHING (CLASS A CONCRETE AS FLOWABLE FILL)
- 9 — 1/2 IN. PREFORMED JOINT FILLER
- 13 — CONCRETE CURB, 8" BARRIER
- 14 — VERTICAL CURB (FLUSH), CONCRETE FOR LANDSCAPE
  AREA, 8" WIDE, TWO VERTICAL FACES
- 15 — COMBINED CONCRETE CURB AND GUTTER, 8" TALL, 24" WIDE
- 16 — INTEGRAL CONCRETE CURB, TYPE B
- 17 — INTEGRAL CONCRETE CURB, TYPE C (BARRIER)
- 18 — CONCRETE CURB AND GUTTER, 24" REVERSE SLOPED
- 24 — LANDSCAPE BEDS
  3" MULCH ON 24" TOPSOIL
- 25 — GROUND COVER PLANTS, WITH MULCHING
  MATERIAL ON EROSION CONTROL BLANKETS
  (SEE LANDSCAPING PLANTS)
- 26 — SODDING, NURSERY, ON 4" OF TOPSOIL
- G — CONCRETE CURB RAMP (LETTER DESIGNATES TYPE)
- T1 — TREE, HACKBERRY (CELTIS OCCIDENTALIS), 2"
- T2 — TREE, RED OAK (QUERCUS RUBRA), 2"
- T3 — TREE, LILAC (SYRINGA RETICULATE "IVORY SILK"), 2"
- T4 — TREE, AMERICAN LINDEN (TILIA AMERICANA "REDMOND"), 2"
- T5 — TREE, GREEN VASE JAPANESE ZELCOVA (ZELCOVA SERRATA), 2"
- T6 — TREE, REGAL PRINCE OAK (QUEREAS ROBUR), 2.5"
- T8 — TREE, BLACK GUM (NYSSA SYLVATICA), 2"
- W1 — FULL DEPTH WIDENING, LAYERED SAME AS K1 (SEE TYPICALS)

c:\pro\projects\00330\dgn\Index\0330ts002.dgn
3:47:45 AM
DelGuilt
3/22/2011

STAGE 3 PLANS FOR REVIEW ONLY

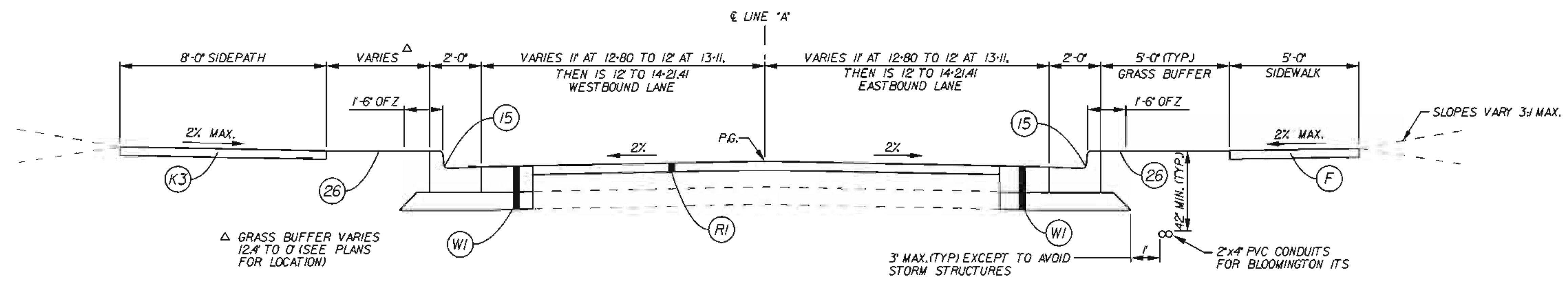
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: BR | DRAWN: SI
CHECKED: AR | CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

INDEX / GENERAL NOTES / LEGEND / UTILITY DATA

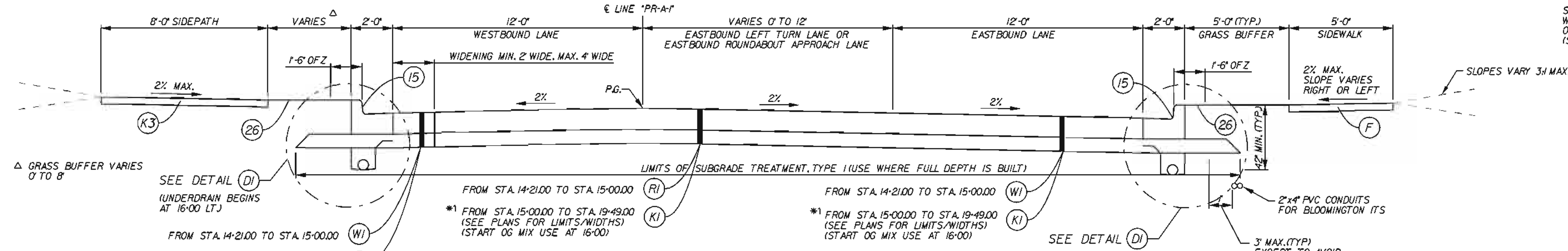
HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	0900213
SURVEY BOOK	SHEETS
	2 of 54
CONTRACT	PROJECT
R-33668	0900213



ROGERS ROAD TYPICAL SECTION (LOOKING EAST)

NTS

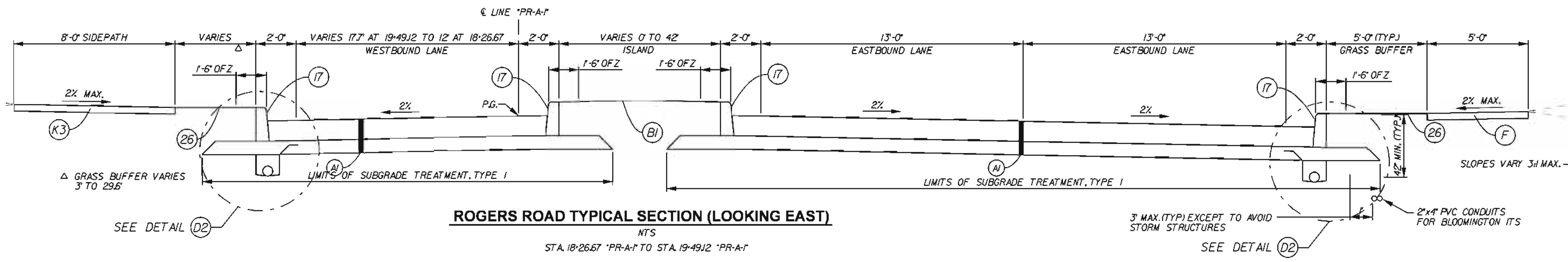
STA. 12+80.00 "A" TO STA. 14+21.41 "PR-A-1"



ROGERS ROAD TYPICAL SECTION (LOOKING EAST)

NTS

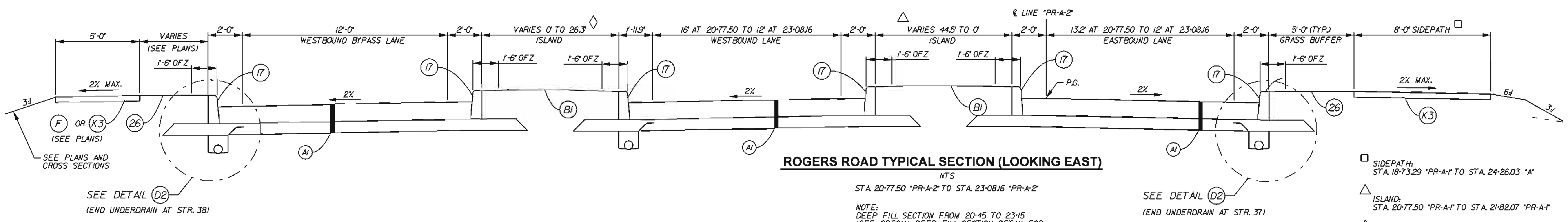
STA. 14+21.41 "PR-A-1" TO STA. 18+26.67 "PR-A-1"



ROGERS ROAD TYPICAL SECTION (LOOKING EAST)

NTS

STA. 18+26.67 "PR-A-1" TO STA. 19+49.12 "PR-A-1"



ROGERS ROAD TYPICAL SECTION (LOOKING EAST)

NTS

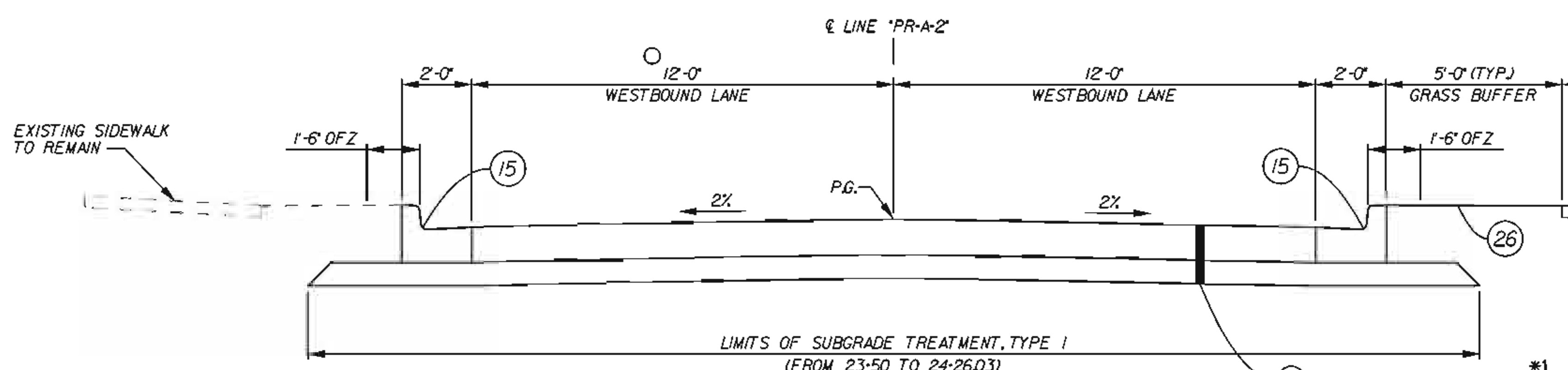
STA. 20+77.50 "PR-A-2" TO STA. 23+08.16 "PR-A-2"

NOTE:
DEEP FILL SECTION FROM 20+45 TO 23+15
(SEE SPECIAL DEEP FILL SECTION DETAIL FOR SPECIAL REQUIREMENTS)

□ SIDEPATH:
STA. 18+73.29 "PR-A-1" TO STA. 24+26.03 "A"

△ ISLAND:
STA. 20+77.50 "PR-A-1" TO STA. 21+82.07 "PR-A-1"

◇ ISLAND:
STA. 20+77.50 "PR-A-1" TO STA. 21+98.48 "PR-A-1"



○ VARIES 12' TO 24'
STA. 23+75.08 "PR-A-2" TO STA. 24+26.03 "A"

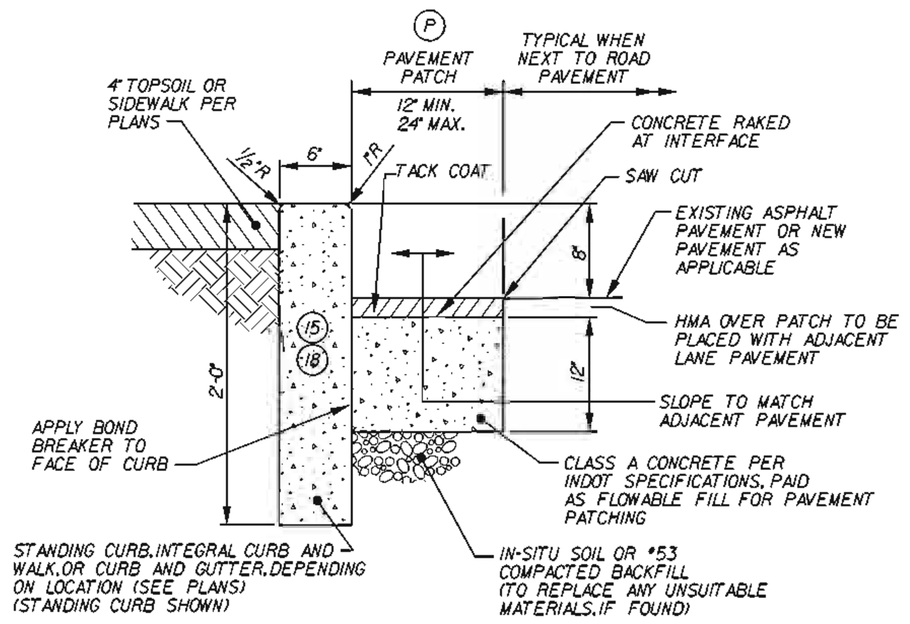
ROGERS ROAD TYPICAL SECTION (LOOKING EAST)

NTS

STA. 23+08.16 "PR-A-2" TO STA. 24+26.03 "A"

FILL SECTION 23+08 TO 23+50
CUT SECTION 23+50 TO 24+26

*1 OG LAYER TO BE REPLACED WITH HMA BASE 5 WHERE UNDERDRAINS NOT PRESENT

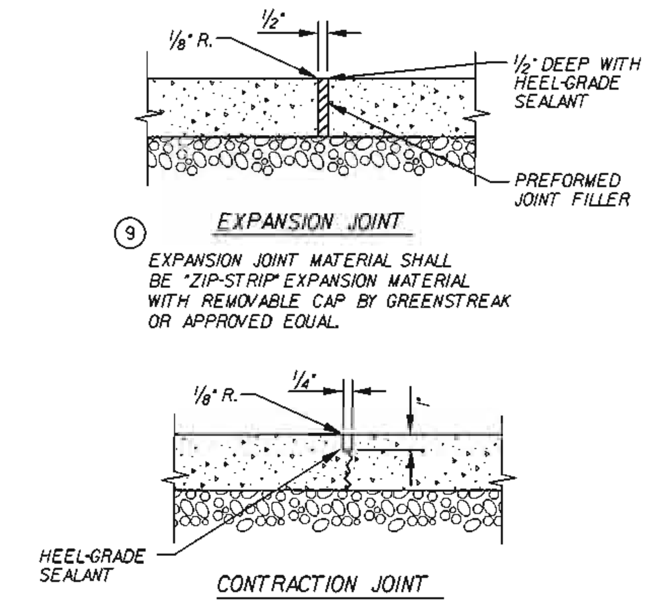


(P) PAVEMENT PATCH AT CURBS DETAIL

NTS

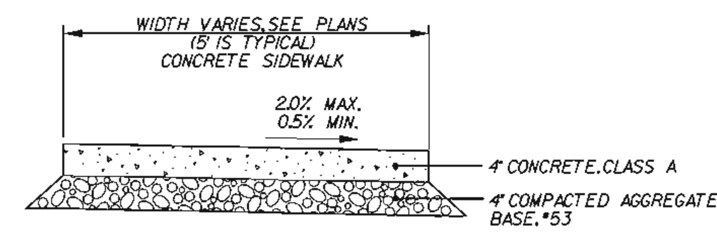
NOTES:

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.



JOINT IN CONCRETE SIDEWALKS

NTS



(F) TYPICAL SIDEWALK DETAIL *

NTS

* USE AT 3' WIDE FOR THE BICYCLE SLIP RAMPS

SIDEWALK JOINT NOTES:

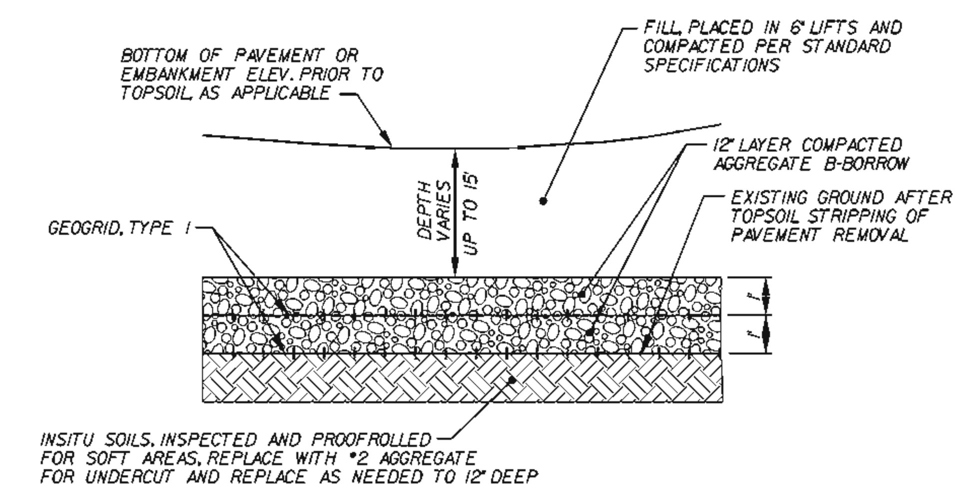
1. INSTALL ½" PREFORMED JOINT FILLER BETWEEN SIDEWALKS AND ANY OTHER FIXED FEATURES (CURBS, STEPS, RAMPS, BUILDINGS, ETC.)
2. IN EACH SIDEWALK SEGMENT, TOOL CONSTRUCTION JOINTS AT EVEN SPACING BUT NO MORE THAN 6' MAXIMUM APART. INSTALL AN EXPANSION JOINT WITH ½" PREFORMED JOINT FILLER AT A MAXIMUM SPACING EVERY 30' IN SIDEWALKS, AND AT EACH SIDEWALK CONNECTION TO OTHER SIDEWALKS, AT CURBS, AND AT RAMPS.

CURB JOINTS NOTE:

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.

CURB RAMPS AND TRUNCATED DOMES:

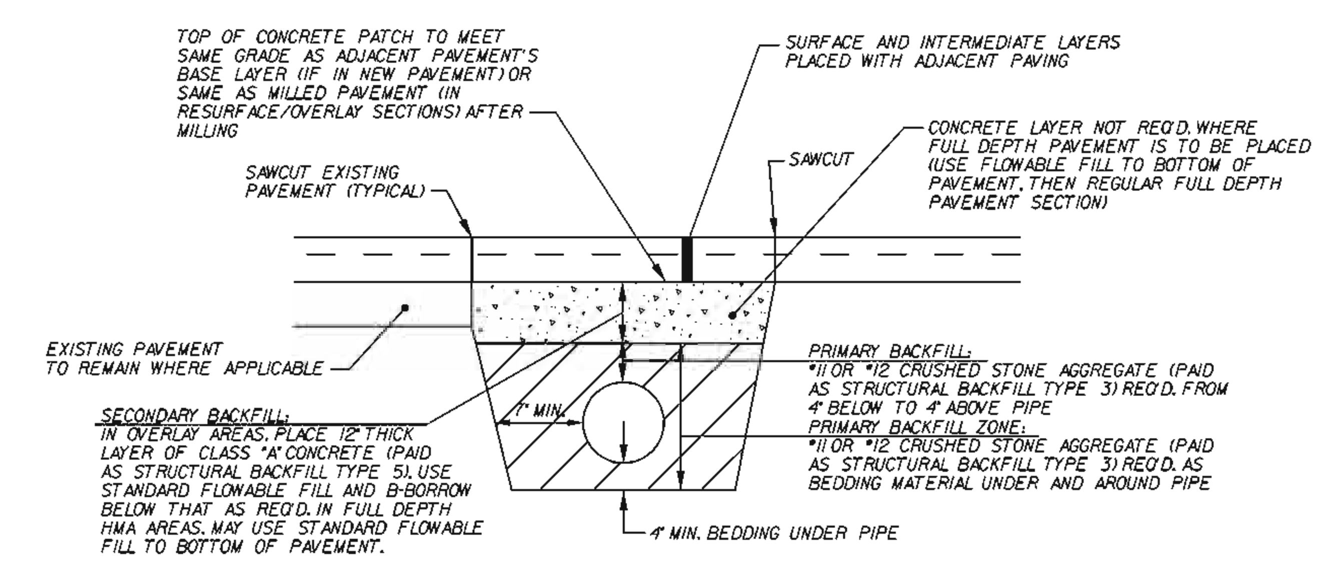
1. RAMPS TO BE CONSTRUCTED AT A MAXIMUM 12:1 SLOPE TO A LANDING AREA FOR ENTRY ONTO ROADWAY PER PLANS.
2. RAMPS ARE TO RECEIVE DETECTABLE WARNING PLATES. PER CITY STANDARDS, PLATES SHALL BE EAST JORDAN IRON WORKS, MODEL *7005. INSTALL PER MANUFACTURER'S SPECIFICATIONS.



SPECIAL DEEP FILL SECTION

NTS

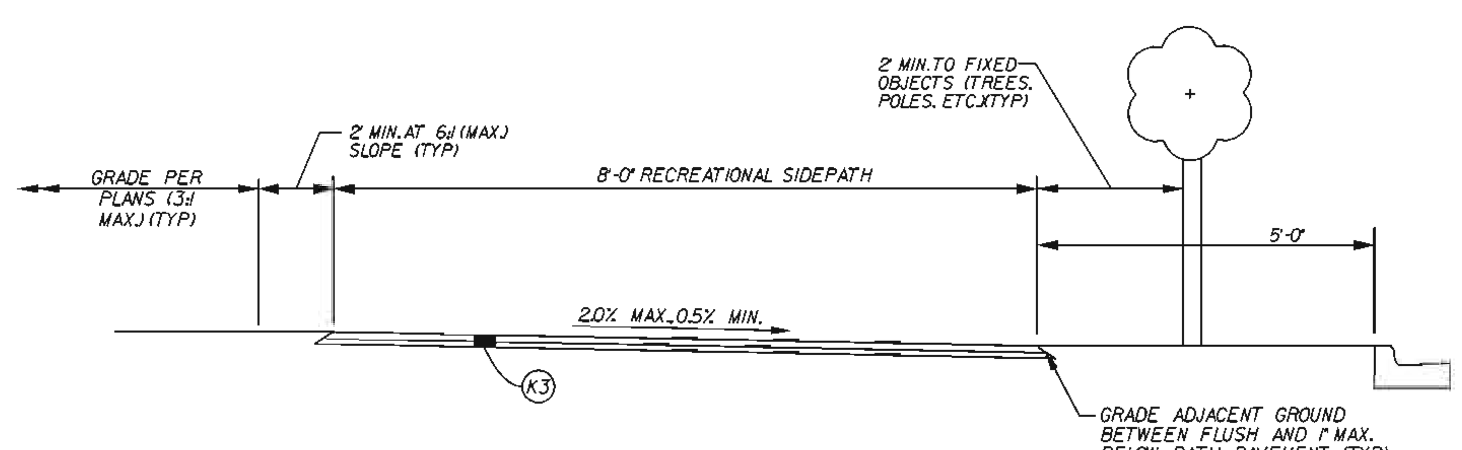
APPROXIMATE STATION RANGE 20+45 TO 23+15 "A"



PAVEMENT PATCHING OVER STORM SEWER PIPES

NTS

NOTE:
SEE STRUCTURE DATA TABLE FOR BACKFILL MATERIAL REQUIREMENTS.



(K3) TYPICAL PATH PAVEMENT

NTS

c:\projects\00130\dgn\Details\0130d001.dgn

Dell 3/22/2011 3:47:59 AM

PAVEMENT SECTIONS

- (A1) CONCRETE PAVEMENT
- (K1) AND (W1) FULL DEPTH PAVEMENT FOR ARTERIAL ROAD *1
- (K3) RECREATIONAL PATH, 5' SIDEWALK COLORED CONCRETE ON 4" COMPACTED AGGREGATE *53s
- (R1) RESURFACING SECTIONS
- (R3) WEDGE AND LEVEL WITH OVERLAY

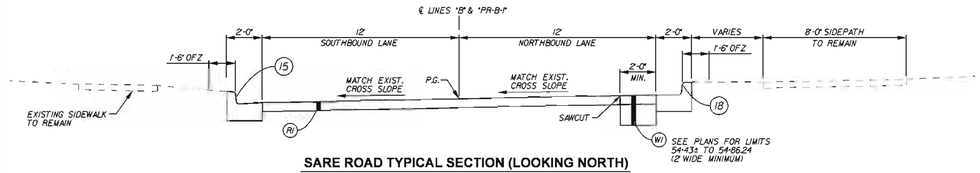
STAGE 3 PLANS FOR REVIEW ONLY

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER		DATE
DESIGNED: BR		DRAWN: SI	
CHECKED: AR		CHECKED: BR	

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS
AND PAVING DETAILS

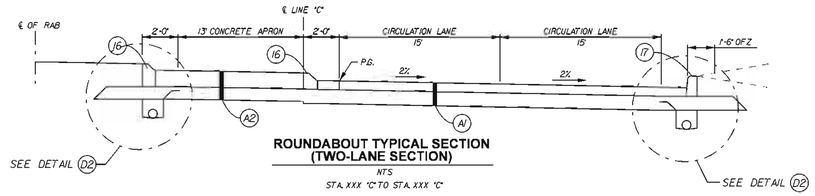
HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	0900213
SURVEY BOOK	SHEETS
	3 of 54
CONTRACT	PROJECT
R-33668	0900213



SARE ROAD TYPICAL SECTION (LOOKING NORTH)

NTS

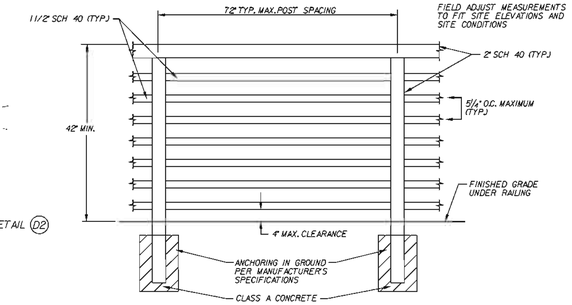
STA. 54+15.00 "B" TO STA. 54+53.36 "PR-B-1"
STA. 54+53.36 "PR-B-1" TO STA. 54+86.24 "PR-B-1"



ROUNDABOUT TYPICAL SECTION (TWO-LANE SECTION)

NTS

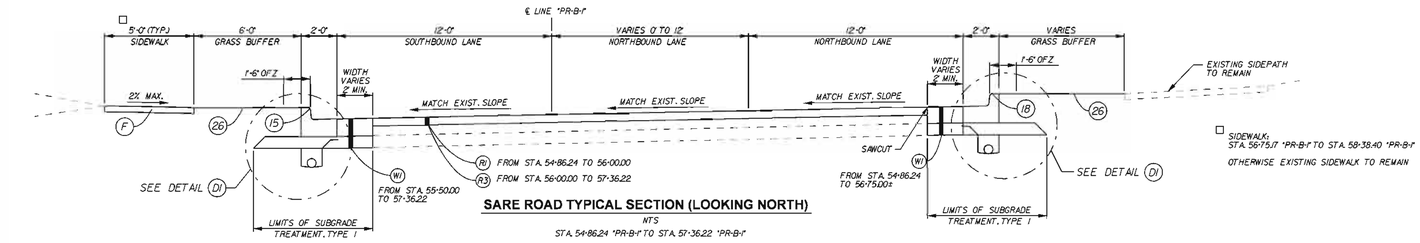
STA. XXX "C" TO STA. XXX "C"



TUBULAR STEEL PEDESTRIAN/BICYCLE SAFETY RAILING

NOT TO SCALE

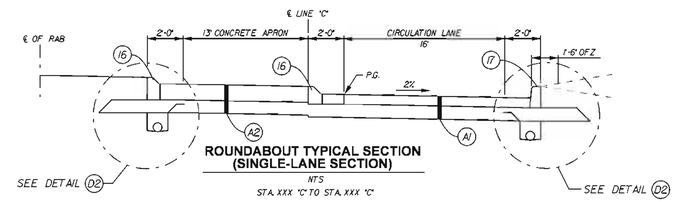
SEE PLANS FOR LENGTH AND LAYOUT OF EACH INSTALLATION



SARE ROAD TYPICAL SECTION (LOOKING NORTH)

NTS

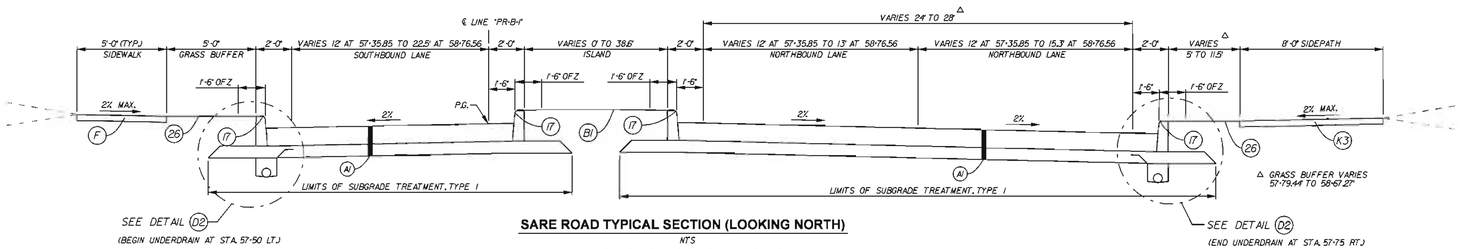
STA. 54+86.24 "PR-B-1" TO STA. 57+36.22 "PR-B-1"



ROUNDABOUT TYPICAL SECTION (SINGLE-LANE SECTION)

NTS

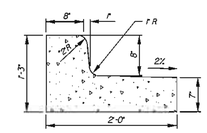
STA. XXX "C" TO STA. XXX "C"



SARE ROAD TYPICAL SECTION (LOOKING NORTH)

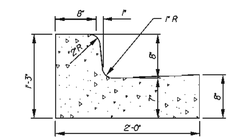
NTS

STA. 57+36.22 "PR-B-1" TO STA. 58+76.56 "PR-B-1"



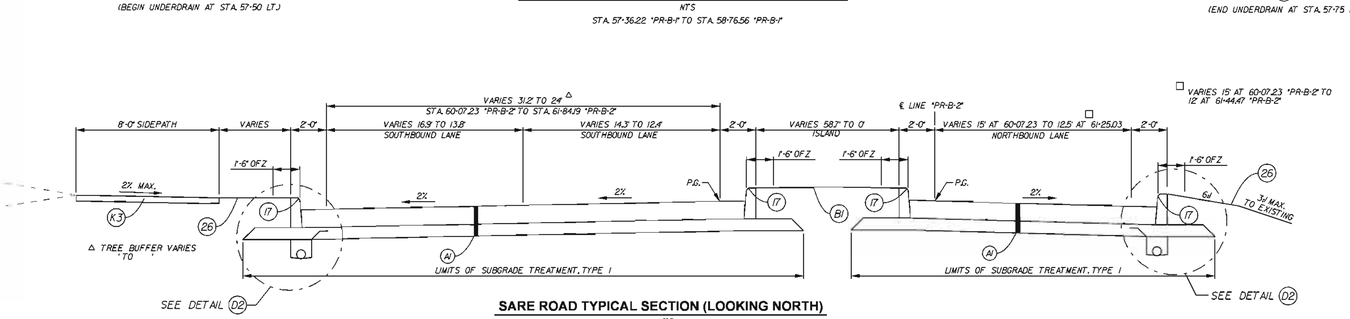
18 REVERSE SLOPED COMBINED CURB AND GUTTER

NTS



15 COMBINED CURB AND GUTTER DETAIL

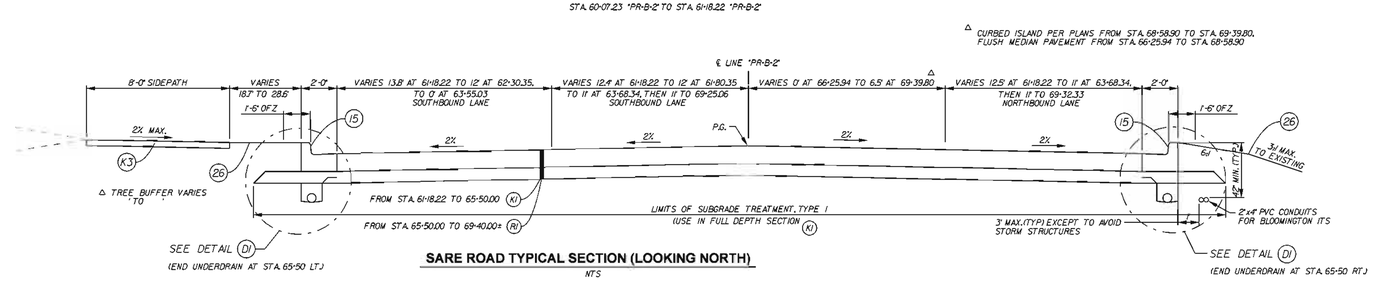
NTS



SARE ROAD TYPICAL SECTION (LOOKING NORTH)

NTS

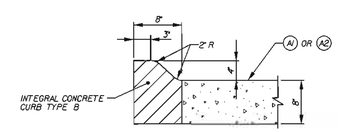
STA. 60+07.23 "PR-B-2" TO STA. 61+18.22 "PR-B-2"



SARE ROAD TYPICAL SECTION (LOOKING NORTH)

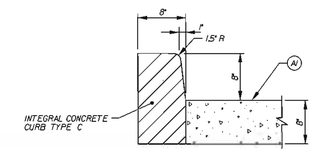
NTS

STA. 61+18.22 "PR-B-2" TO STA. 62+26.73 "PR-B-2"
STA. 62+26.73 "B" TO STA. 66+25.94 "B"
STA. 66+25.94 "PR-B-2" TO STA. 69+39.88 "PR-B-2"



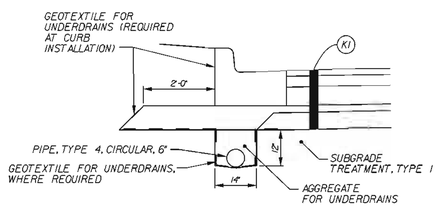
16 INTEGRAL CONCRETE CURB TYPE B (MOUNTABLE)

NTS



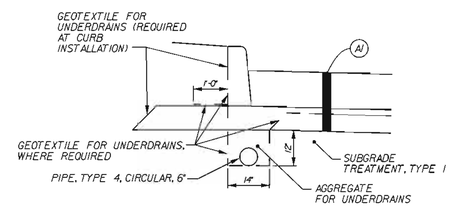
17 INTEGRAL CONCRETE CURB TYPE C (BARRIER)

NTS



D1 CONCRETE CURB AND GUTTER FOR HMA PAVEMENT WITH UNDERDRAIN

NTS



D2 CURBED PCCP WITH UNDERDRAIN

NTS

c:\pro_tects\00330\dgn\Details\0330d001.dgn

3:48:13 AM

Dwl 2
3/22/2011

PAVEMENT SECTIONS

- A1 — CONCRETE PAVEMENT
- K1 AND W1 — FULL DEPTH PAVEMENT FOR ARTERIAL ROAD
- K3 — RECREATIONAL PATH, 5' SIDEWALK COLORED CONCRETE ON 4" COMPACTED AGGREGATE "53s
- R1 — RESURFACING SECTIONS
- R3 — WEDGE AND LEVEL WITH OVERLAY

STAGE 3 PLANS FOR REVIEW ONLY

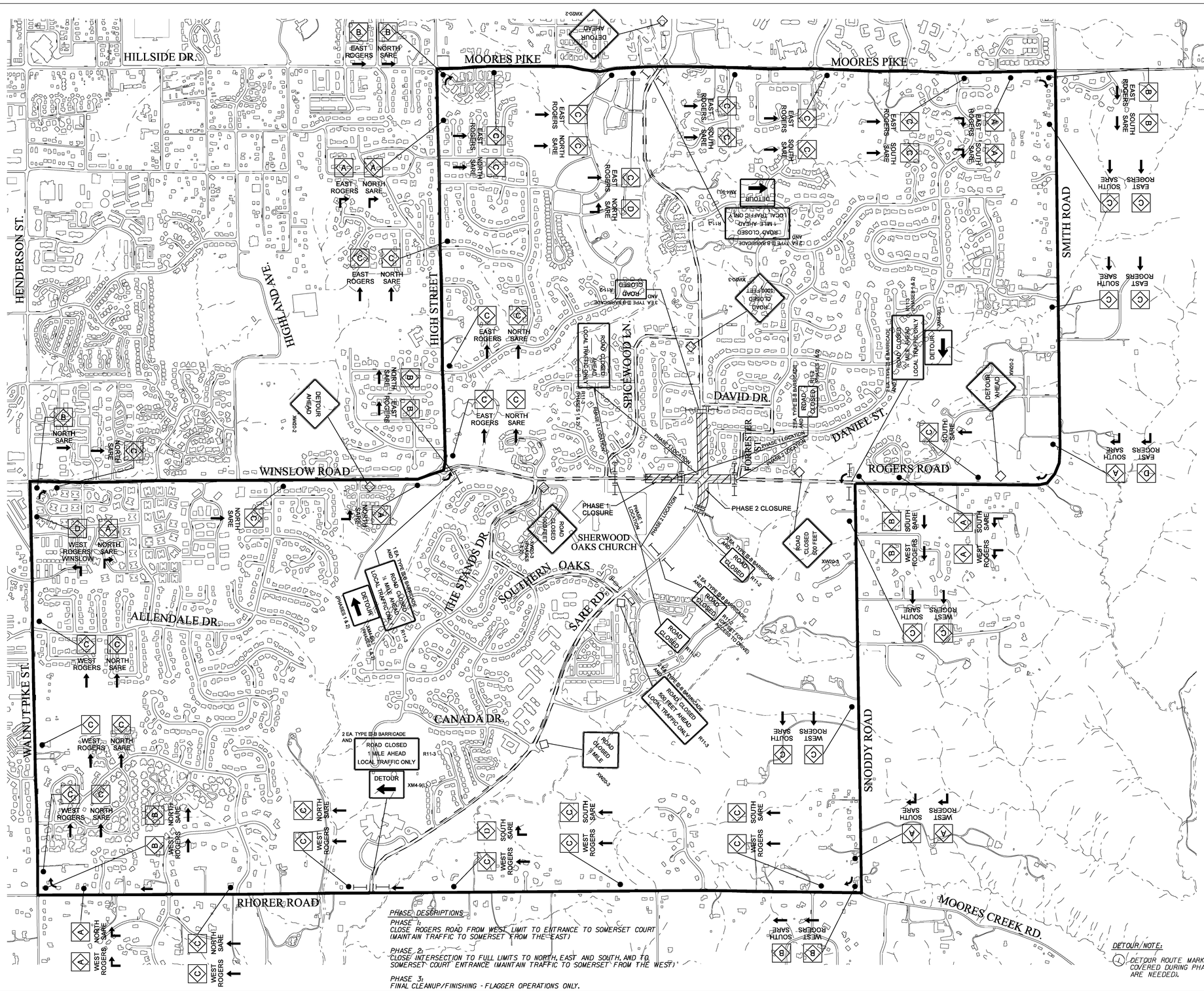
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: BR | DRAWN: SI
CHECKED: AR | CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS AND PAVING DETAILS

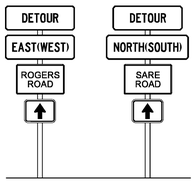
HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	0900213
SURVEY BOOK	SHEETS
	4 of 54
CONTRACT	PROJECT
R-33668	0900213



CONSTRUCTION SIGN AND BARRICADE SUMMARY						
ITEM	CODE	REQUIREMENTS PER PHASE				SUBTOTAL/ HIGHEST NEED
		I	II	III	UNDIST	
CONSTRUCTION SIGNS, A						
ROAD CONSTRUCTION AHEAD	XW20-1	-	-	-	4	4
END CONSTRUCTION	XG20-2	-	-	-	4	4
ROAD CLOSED XX FEET	XW20-3	2	4	-	-	4
ROAD CLOSED XX MILES AHEAD (LOCAL TRAFFIC ONLY)	R11-3a	3	6	-	-	6
ROAD CLOSED	R11-2	2	5	-	-	5
DETOUR	XM4-9 (R OR L)	2	4	-	-	4
FLAGGER AHEAD	W20-7a	-	-	-	4	4
BE PREPARED TO STOP	W20-7b	-	-	-	4	4
BUMP	XW8-1	-	-	-	2	2
DETOUR AHEAD	XW20-2	2	3	-	-	3
ADVANCE LANE CLOSURE NOTICE	XG20-5	4	-	-	-	4
CONSTRUCTION SIGNS, A TOTAL						44
OTHER ITEMS						
BARRICADES, III B		8	22	-	4	26
DETOUR ROUTE MARKER ASSEMBLIES		34	73	-	-	73

DETOUR ROUTE MARKER CODES:

- A — ADVANCE TURN
- B — DIRECTIONAL
- C — CONFIRMING
- D — END



TYPICAL DUAL DETOUR ROUTE MARKER ASSEMBLIES

DURING PHASE 2

PHASE DESCRIPTIONS

PHASE 1:
CLOSE ROGERS ROAD FROM WEST LIMIT TO ENTRANCE TO SOMERSET COURT (MAINTAIN TRAFFIC TO SOMERSET FROM THE EAST)

PHASE 2:
CLOSE INTERSECTION TO FULL LIMITS TO NORTH, EAST AND SOUTH, AND TO SOMERSET COURT ENTRANCE (MAINTAIN TRAFFIC TO SOMERSET FROM THE WEST)

PHASE 3:
FINAL CLEANUP/FINISHING - FLAGGER OPERATIONS ONLY.

DETOUR/NOTE:

(1) DETOUR ROUTE MARKER FOR SARE ROAD SHALL BE KEPT COVERED DURING PHASE 1 (ONLY ROGERS STREET DRMA'S ARE NEEDED).

PRIMARY ROUTE FOR OFFICIAL DETOUR (POSTED)

LOCAL ACCESS ROUTES (NOT POSTED)

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*
- (RP) *TEMPORARY CHECK DAM, REVETMENT RIPRAP*
- (SB) *TEMPORARY CHECK DAM, STRAW BALES*
- (CI) *INLET PROTECTION, CURB*
- (DI) *DITCH INLET PROTECTION*
- (SF) *TEMPORARY SILT FENCING*
- (CL) *CONSTRUCTION LIMITS*
- (CP) *CULVERT PROTECTION*

STAGE 3 PLANS FOR REVIEW ONLY

RECOMMENDED FOR APPROVAL _____ *DESIGN ENGINEER* _____ *DATE*

DESIGNED: BR *DRAWN:* SI

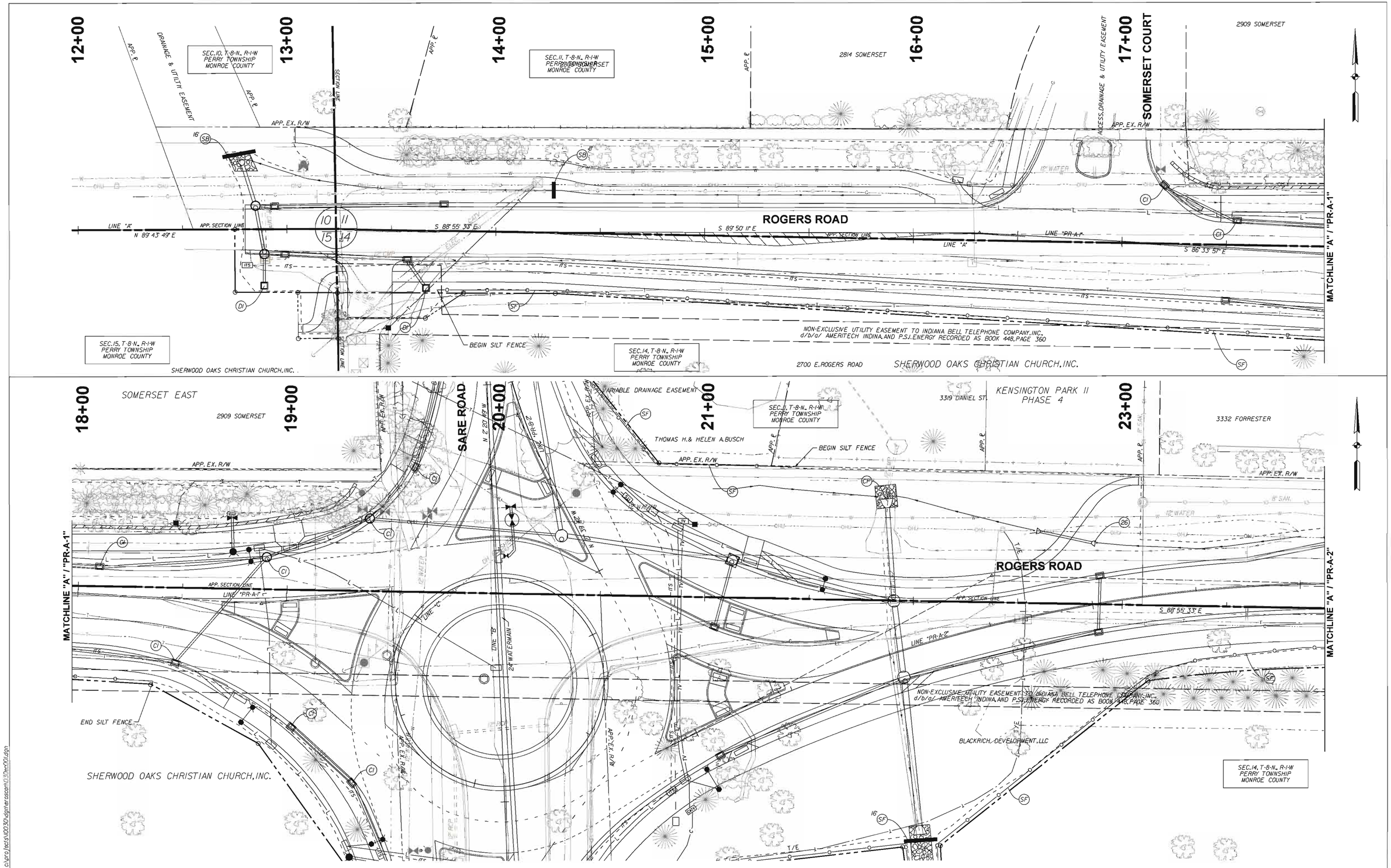
CHECKED: AR *CHECKED:* BR

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
DETOUR ROUTE AND SIGNAGE

HORIZONTAL SCALE	BRIDGE FILE
1" = 600'-0"	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	5 of 54
CONTRACT	PROJECT
R-33668	0900213

DETOUR ROUTE
3/22/2011 3:46:26 AM
c:\projects\0030\dgn\maintrdt\030maf01.dgn



EROSION CONTROL LEGEND

- (RR) TEMPORARY CHECK DAM, REVETMENT RIPRAP
- (SB) TEMPORARY CHECK DAM, STRAW BALES
- (CI) INLET PROTECTION, CURB
- (DI) DITCH INLET PROTECTION
- (SF) TEMPORARY SILT FENCING

STAGE 3 PLANS FOR REVIEW ONLY

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: BR | DRAWN: SI

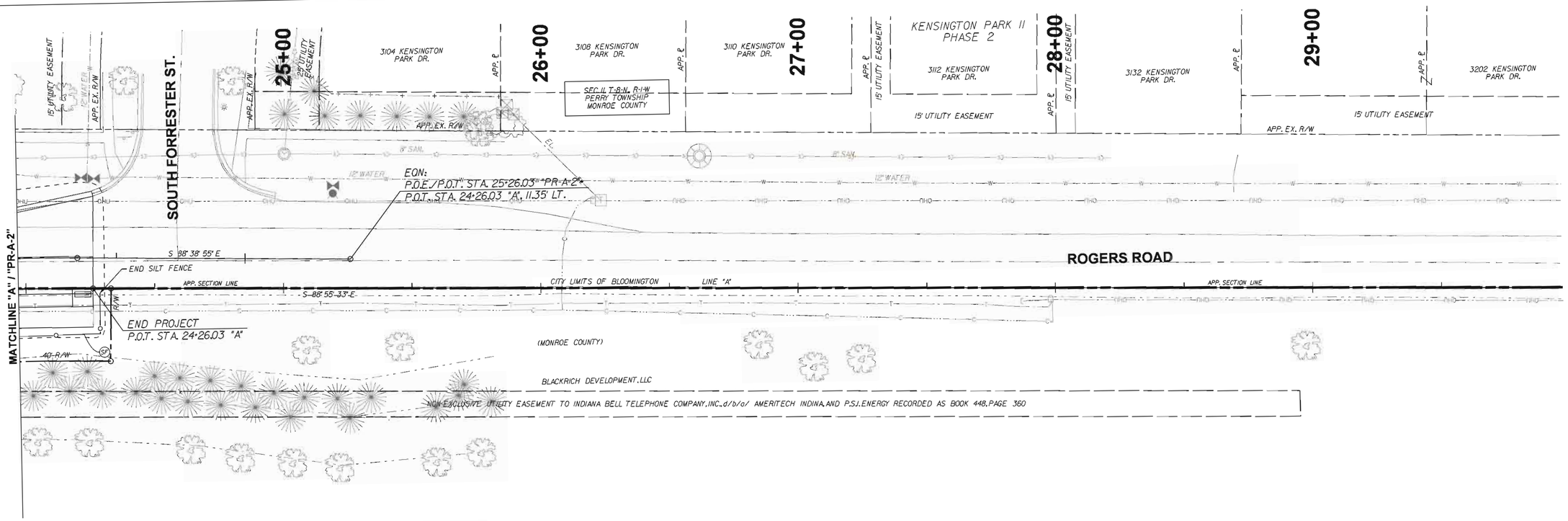
CHECKED: AR | CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLANS
LINES "A" / "PR-A-1"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'-0"	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	6 of 54
CONTRACT	PROJECT
R-33668	0900213

c:\projects\N030\dgn\erosion\030ec001.dgn 3:49:03 AM 3/22/2011 ec01



STAGE 3 PLANS FOR REVIEW ONLY

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

DESIGNED: BR | DRAWN: SI

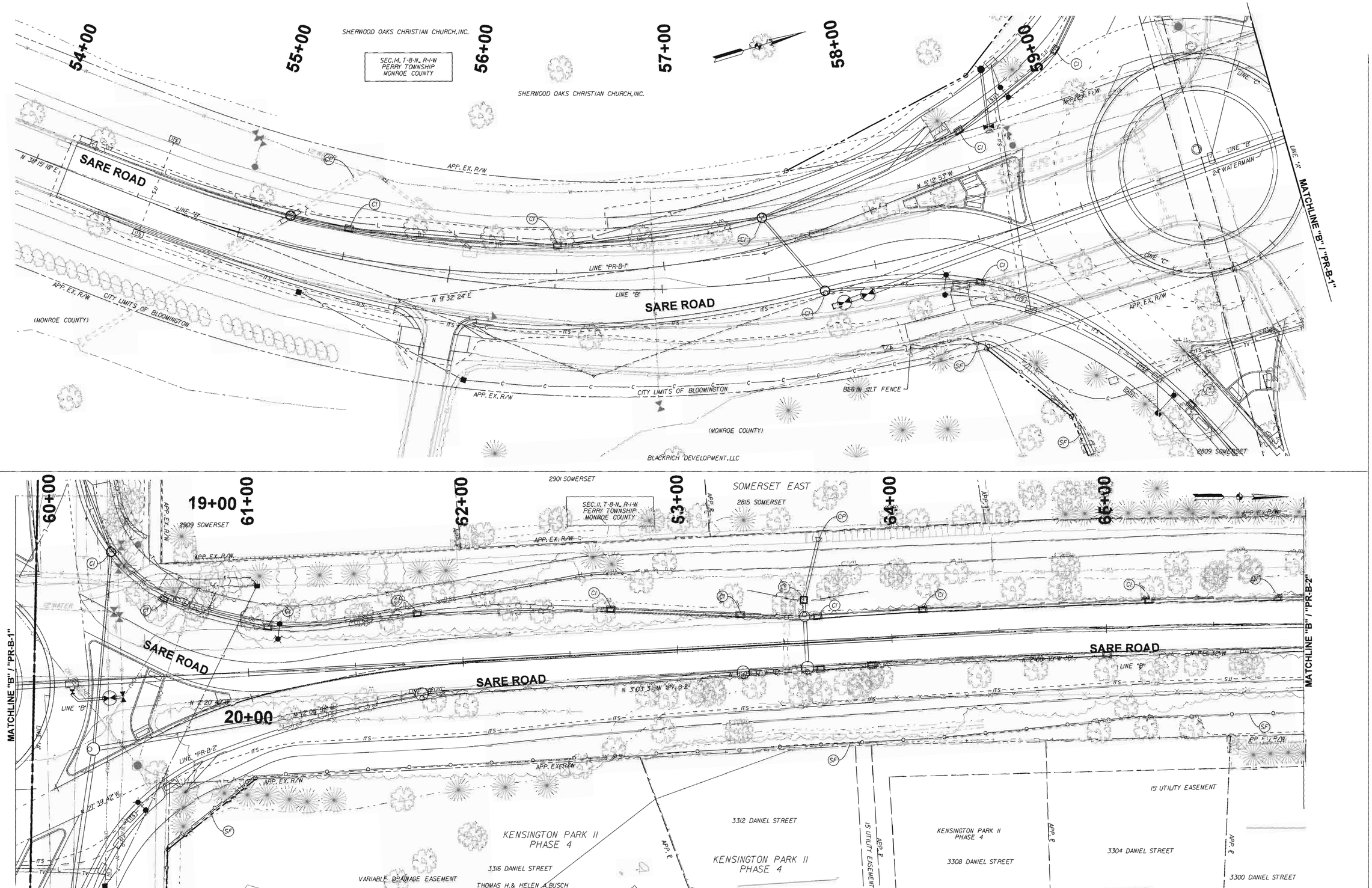
CHECKED: AR | CHECKED: BR

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLANS
LINES "PR-A-2" / "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'-0"	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	7 of 54
CONTRACT	PROJECT
R-33668	0900213

c:\projects\0030\dgn\erosion\030e001.dgn
3/22/2011 3:49:8 AM
ed02



STAGE 3 PLANS FOR REVIEW ONLY

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: BR | DRAWN: SI

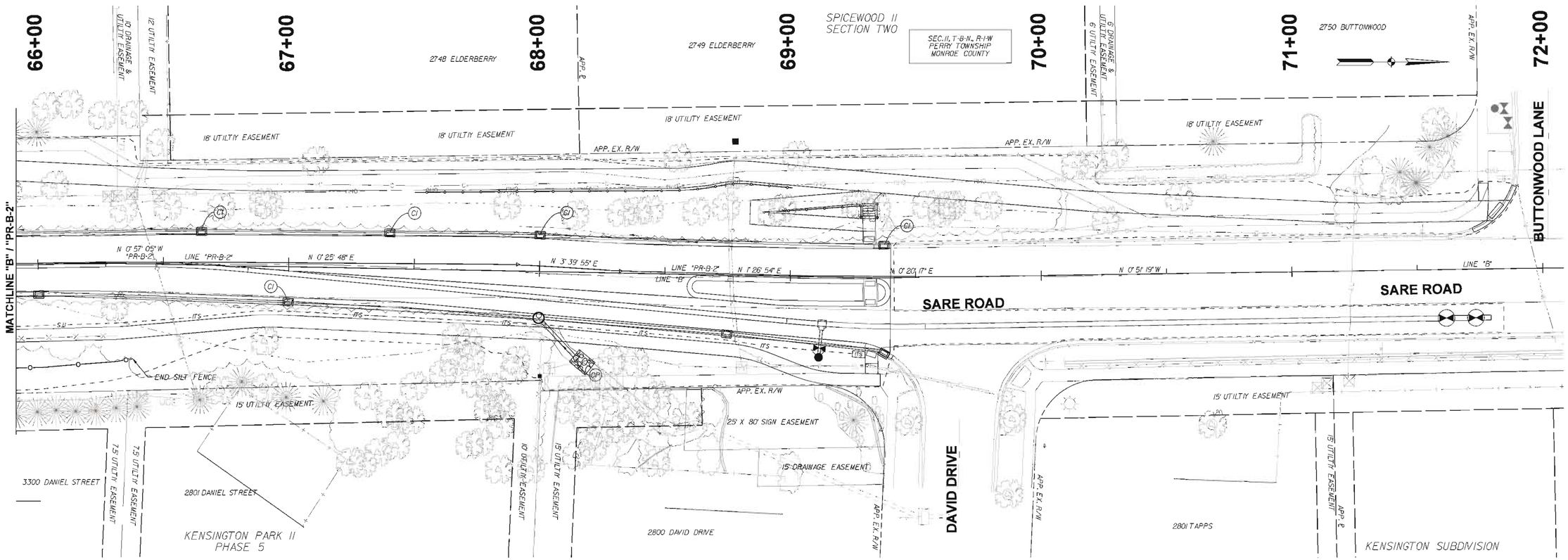
CHECKED: AR | CHECKED: BR

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLANS
LINES "B" / "PR-B-1"

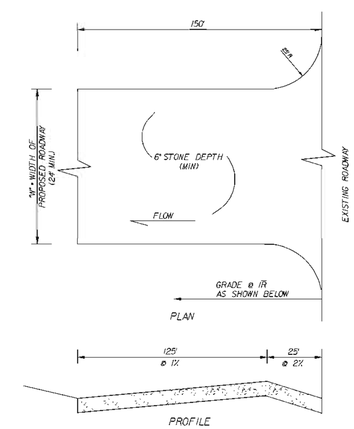
HORIZONTAL SCALE	BRIDGE FILE
1" = 20'-0"	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	B 1 of 1

c:\projects\0030\dgn\rescom\030ec001.dgn
3:49:25 AM
3/22/2011
ec03



EROSION CONTROL MEASURES
SUMMARY OF QUANTITIES BY AREA

CODE	MEASURE	PAY UNIT	NORTH LEG WEST SIDE	NORTH LEG EAST SIDE	EAST LEG NORTH SIDE	EAST LEG SOUTH SIDE	SOUTH LEG EAST SIDE	SOUTH LEG WEST SIDE	WEST LEG SOUTH SIDE	WEST LEG NORTH SIDE	UNDISTRIBUTED	TOTALS
DI	DITCH INLET PROTECTION	EACH	1	0	0	0	0	0	2	0	0	3
CI	CURB INLET PROTECTION	EACH	14	1	0	0	2	5	2	4	2	30
CP	CULVERT END PROTECTION	EACH	1	1	2	0	0	1	0	0	0	5
SB	STRAW BALE DITCH CHECK	LFT	0	0	0	16	0	0	0	24	10	50
SF	SILT FENCING	LFT	0	600	75	425	75	0	500	0	125	1800



NOTE:
1. STONE SIZE SHALL CONFORM TO ASTM D48 SIZE #1 (1 1/2 TO 3 1/2 DIA).
2. PERIODIC 2" STONE TOP DRESSING & WASHING AS REQUESTED BY COUNTY/CITY.

TEMPORARY CONSTRUCTION ENTRANCE DETAIL
NO SCALE

STAGE 3 PLANS FOR REVIEW ONLY

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

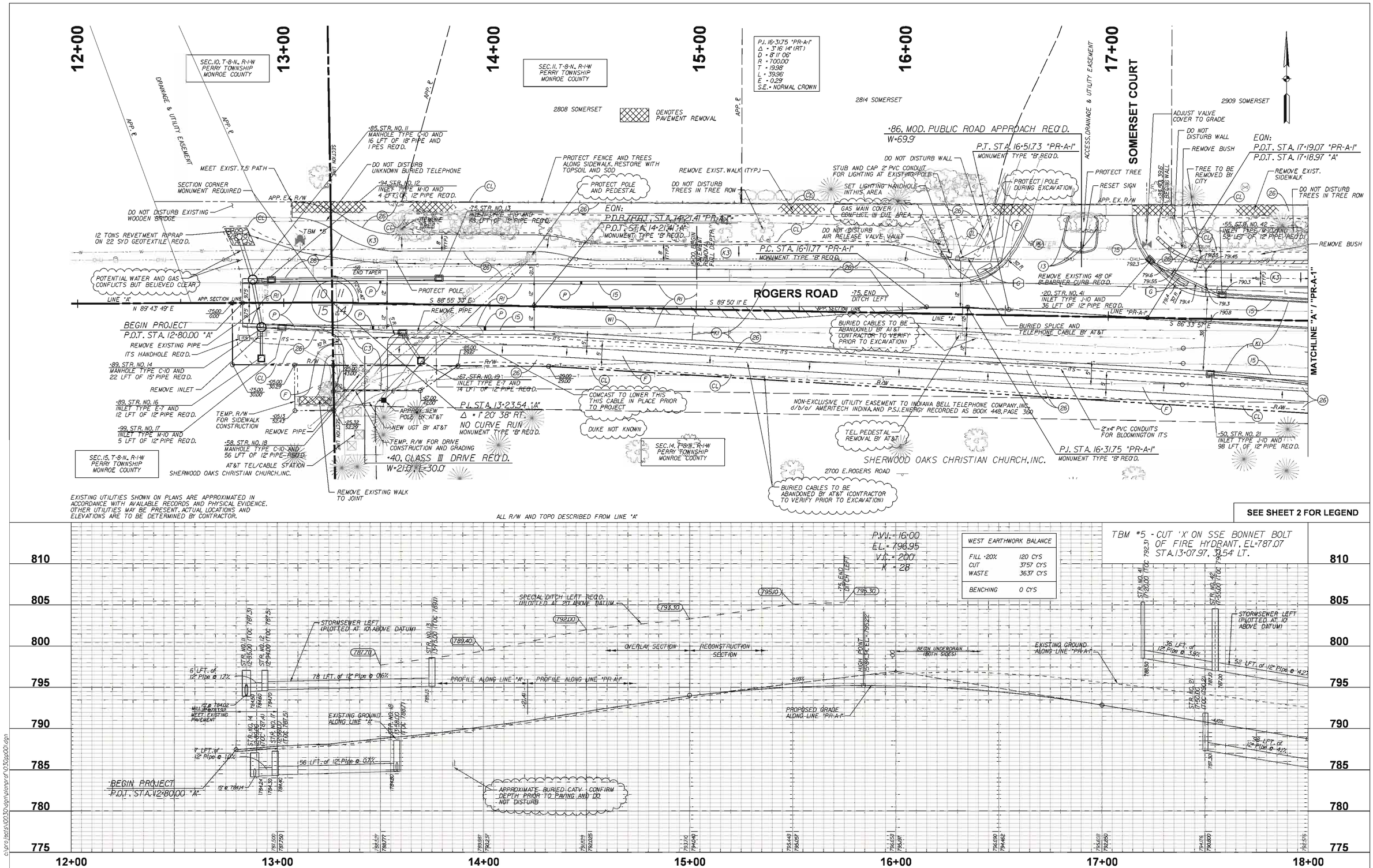
DESIGNED: BR DRAWN: SI
CHECKED: AR CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLANS
LINES "PR-B-2" / "B"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'-0"	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	9 of 54
CONTRACT	PROJECT
R-33668	0900213

c:\pw_fed\v0030\dgn\erosion10Dec09.dgn
ec04
3/22/2011 3:49:39 AM



WEST EARTHWORK BALANCE	
FILL +20%	120 CYS
CUT	3757 CYS
WASTE	3637 CYS
BENCHING	0 CYS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: BR DRAWN: SI

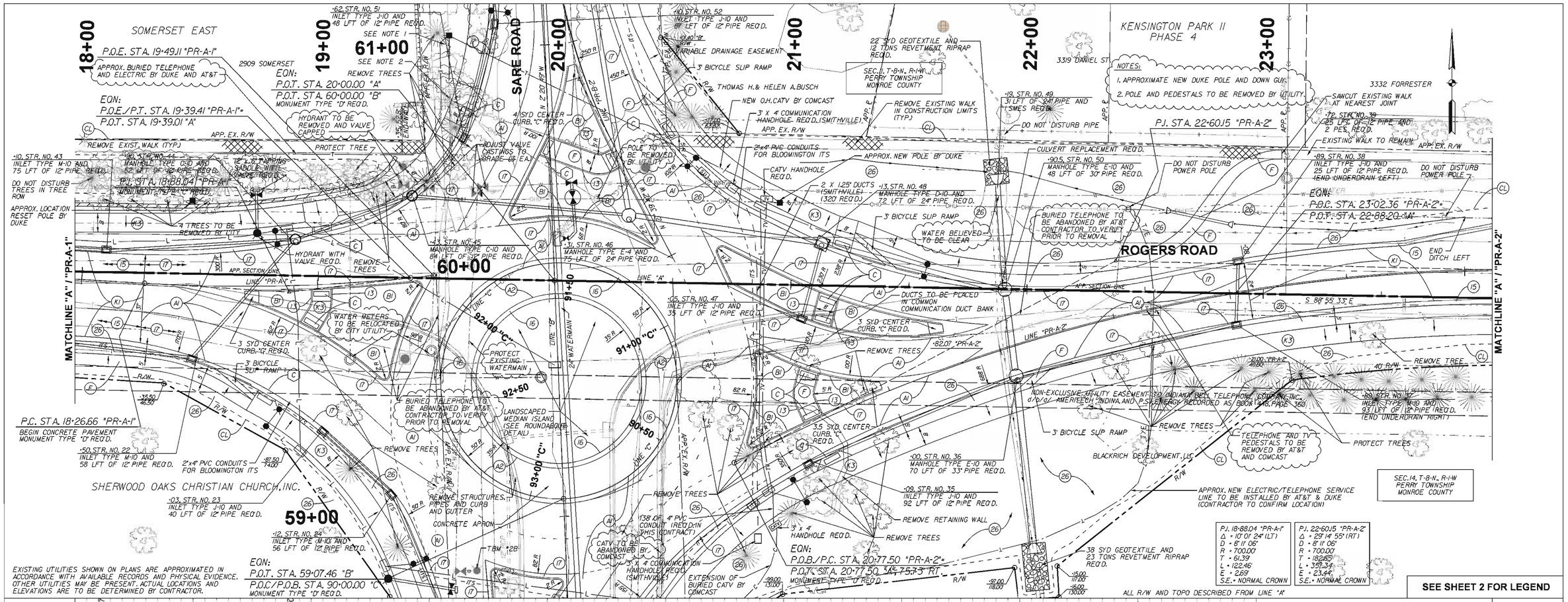
CHECKED: X CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE LINES "A" / "PR-A-1"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'-0"	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	10 of 54
CONTRACT	PROJECT
R-33668	0900213

c:\pro1\peds\00330\dgn\dlempr\0330p001.dgn
p001 3:49:55 AM 3/22/2011

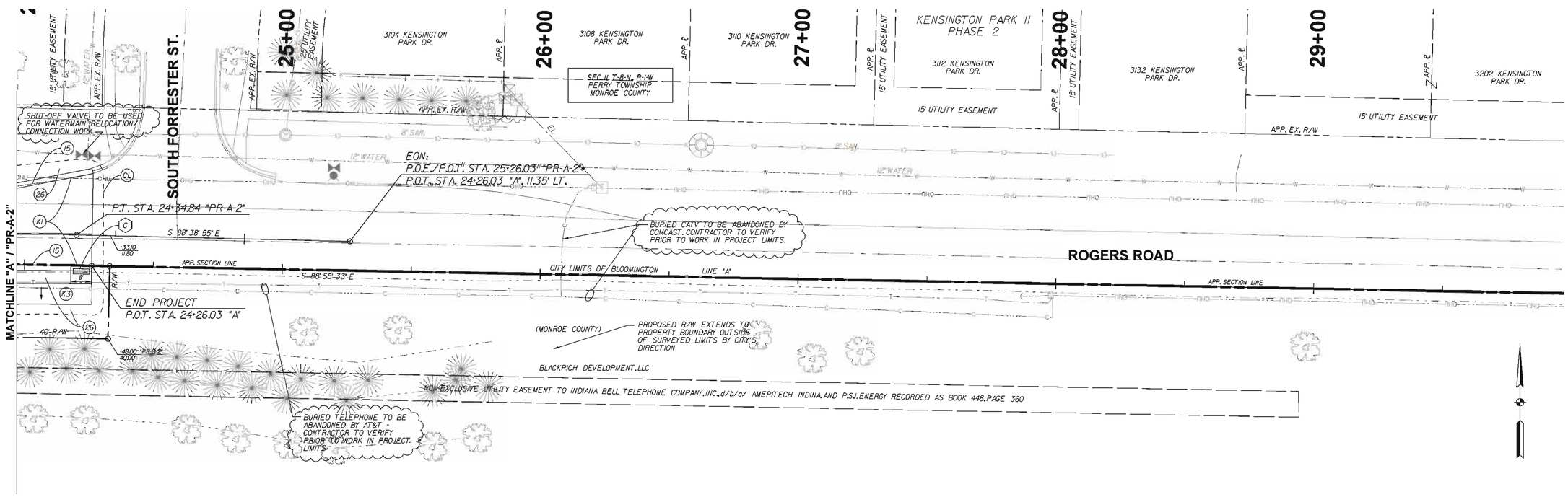


RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION
DESIGNED: BR DRAWN: SI	PLAN AND PROFILE LINES "PR-A-1", "PR-A-2"
CHECKED: X CHECKED: BR	

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'-0"	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	11 of 54
CONTRACT	PROJECT
R-33668	0900213

c:\pra\tests\0030\dgn\planprf\0030p001.dgn

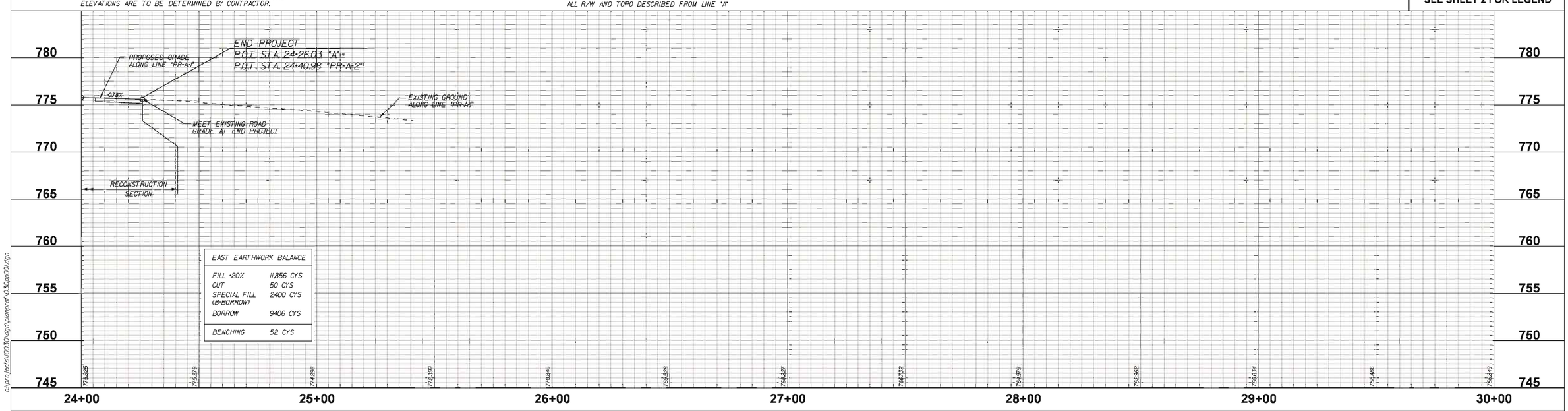
p002
3/22/2011 3:50:12 AM



EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATED IN ACCORDANCE WITH AVAILABLE RECORDS AND PHYSICAL EVIDENCE. OTHER UTILITIES MAY BE PRESENT. ACTUAL LOCATIONS AND ELEVATIONS ARE TO BE DETERMINED BY CONTRACTOR.

ALL R/W AND TOPO DESCRIBED FROM LINE "A"

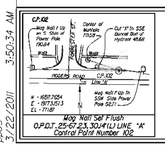
SEE SHEET 2 FOR LEGEND



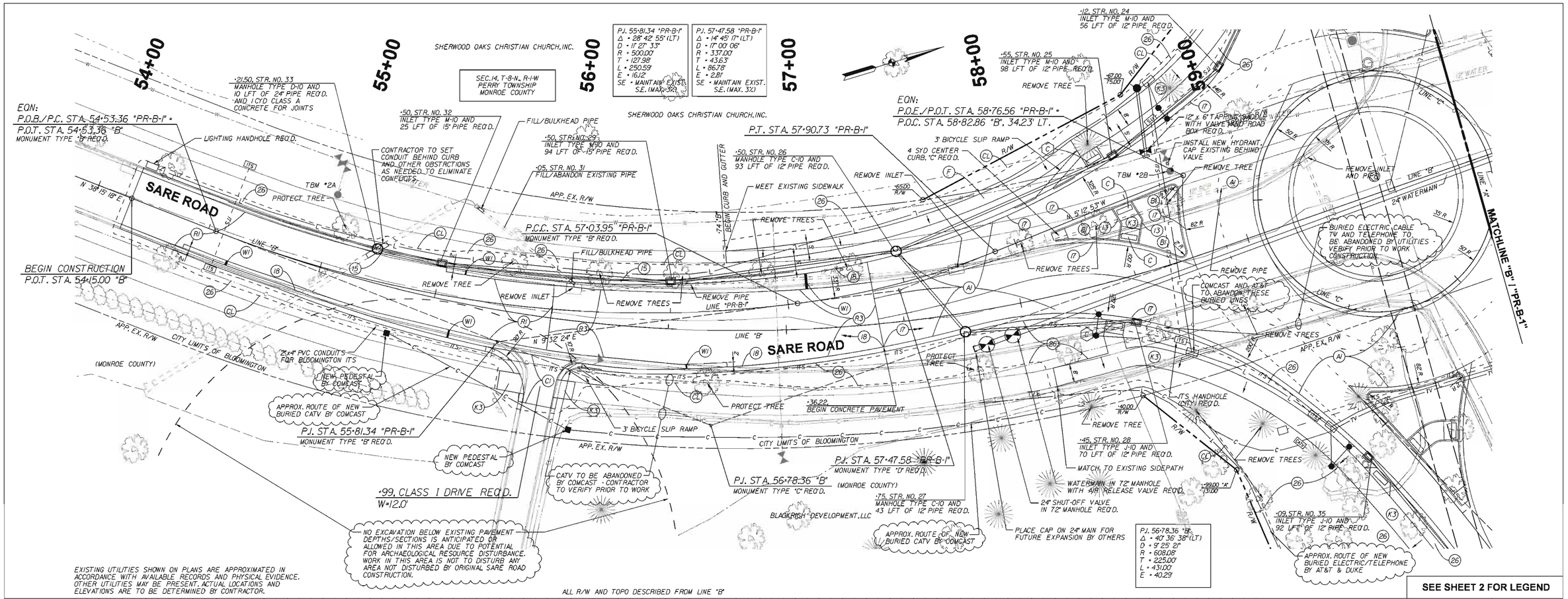
EAST EARTHWORK BALANCE	
FILL -20%	11,856 CYS
CUT	50 CYS
SPECIAL FILL (B-BORROW)	2400 CYS
BORROW	9406 CYS
BENCHING	52 CYS

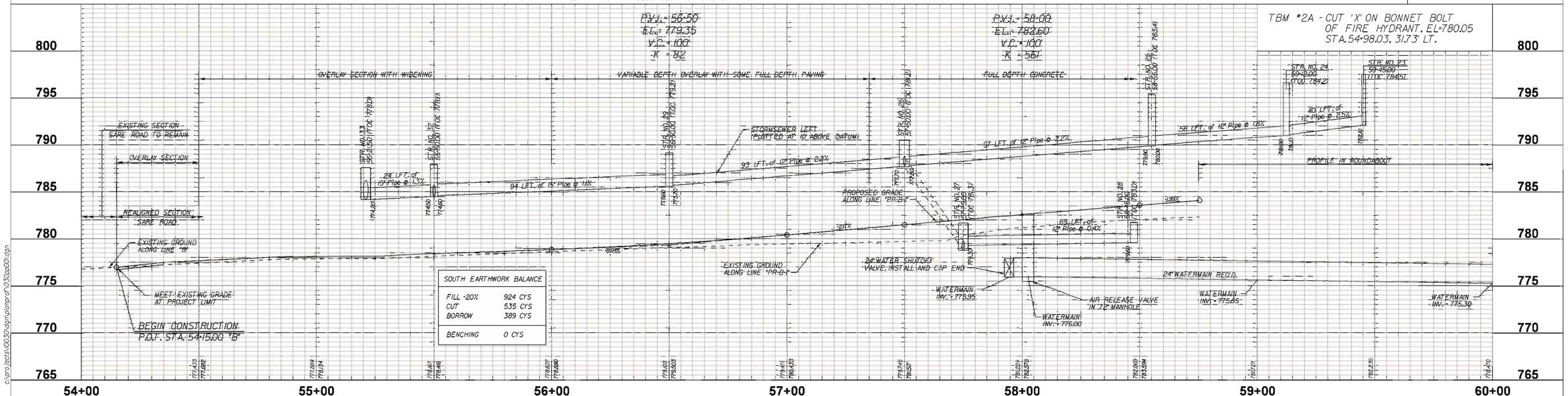
c:\pro\tedts\0030\dgn\plan\pr-a-2.dgn

3:50:34 AM
3/22/2011

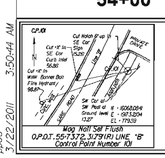


RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1" = 20'-0"	BRIDGE FILE N/A
		VERTICAL SCALE 1" = 5'-0"	DESIGNATION 0900213
DESIGNED: BR / DRAWN: SI	PLAN AND PROFILE LINES "PR-A-2" / "A"	SURVEY BOOK	SHEETS 12 of 54
CHECKED: X / CHECKED: BR		CONTRACT R-33668	PROJECT 0900213





SOUTH EARTHWORK BALANCE	
FILL ·20%	924 CYS
CUT	535 CYS
BORROW	389 CYS
BENCHING	0 CYS



RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

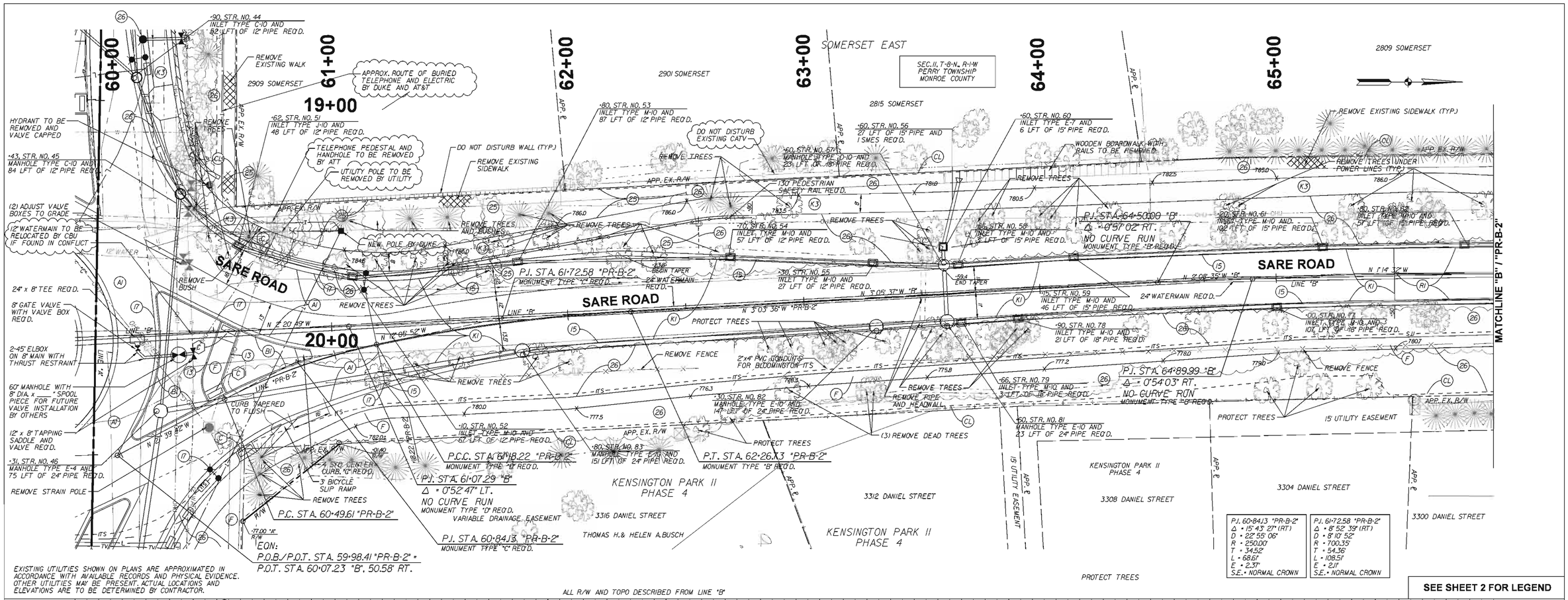
DESIGNED: BR | DRAWN: SI
CHECKED: X | CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE LINES "B" / "PR-B-1"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'-0"	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	13 of 54
CONTRACT	PROJECT
R-33668	0900213

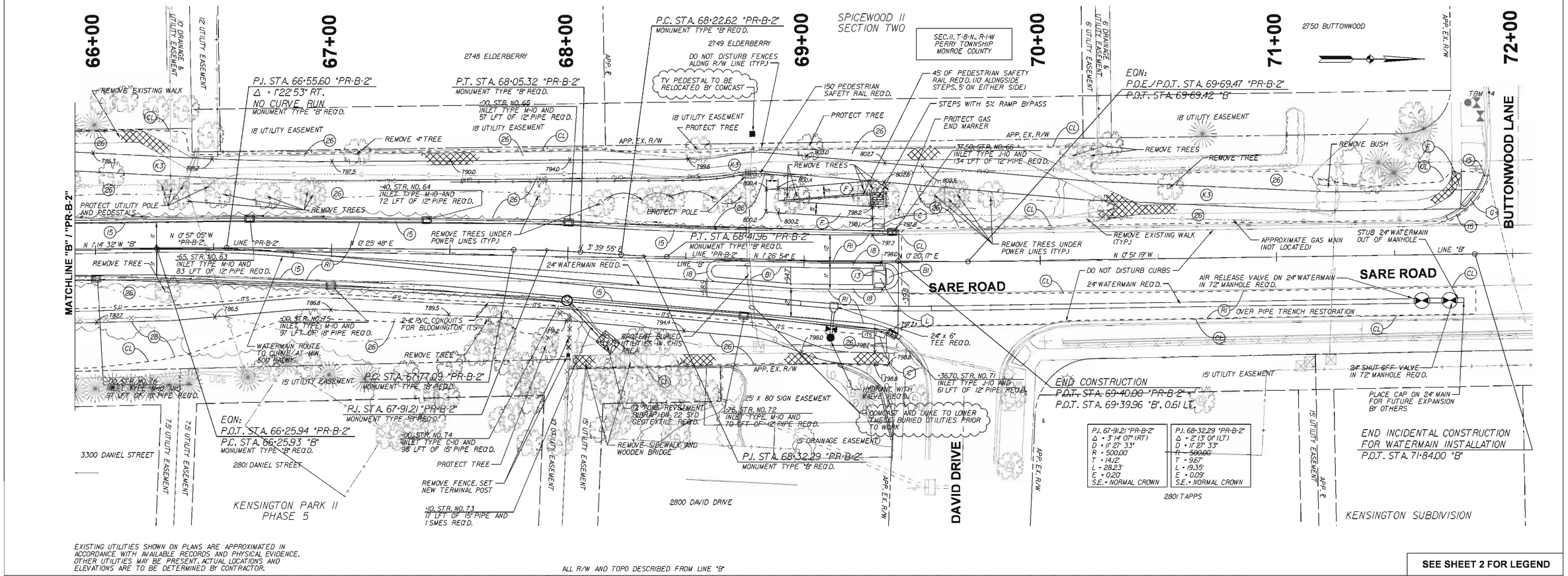
c:\projects\00330\dgn\plans\Q330p001.dgn
3:50:44 AM
3/22/2011



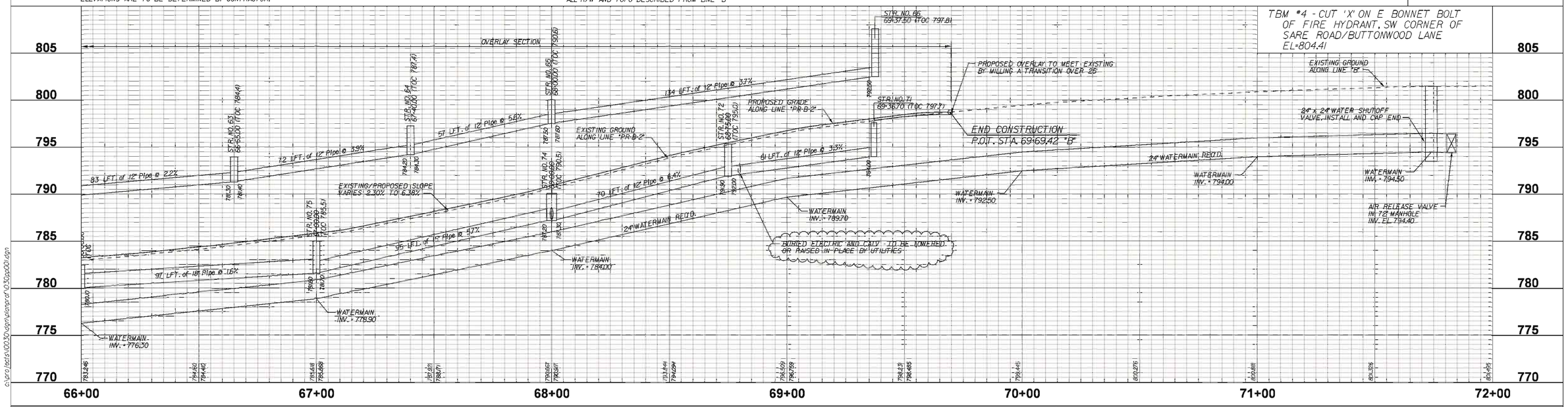
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION
DESIGNED: BR / DRAWN: SI	PLAN AND PROFILE LINES "PR-B-2"
CHECKED: X / CHECKED: BR	

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'-0"	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	14 of 54
CONTRACT	PROJECT
R-33668	0900213

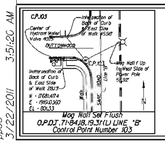
c:\projects\0030-dgn\temp\of\030p001.dgn
DOT 3/22/2011 3:51:00 AM



P.J. 67+91.21 "PR-B-2"	P.J. 68+32.29 "PR-B-2"
Δ = 3°14'07" (RT)	Δ = 2°13'01" (LT)
D = 11°27'33"	D = 11°27'33"
R = 500.00	R = 500.00
T = 14.12'	T = 9.67'
L = 28.23'	L = 19.35'
E = 0.20'	E = 0.09'
S.E. = NORMAL CROWN	S.E. = NORMAL CROWN

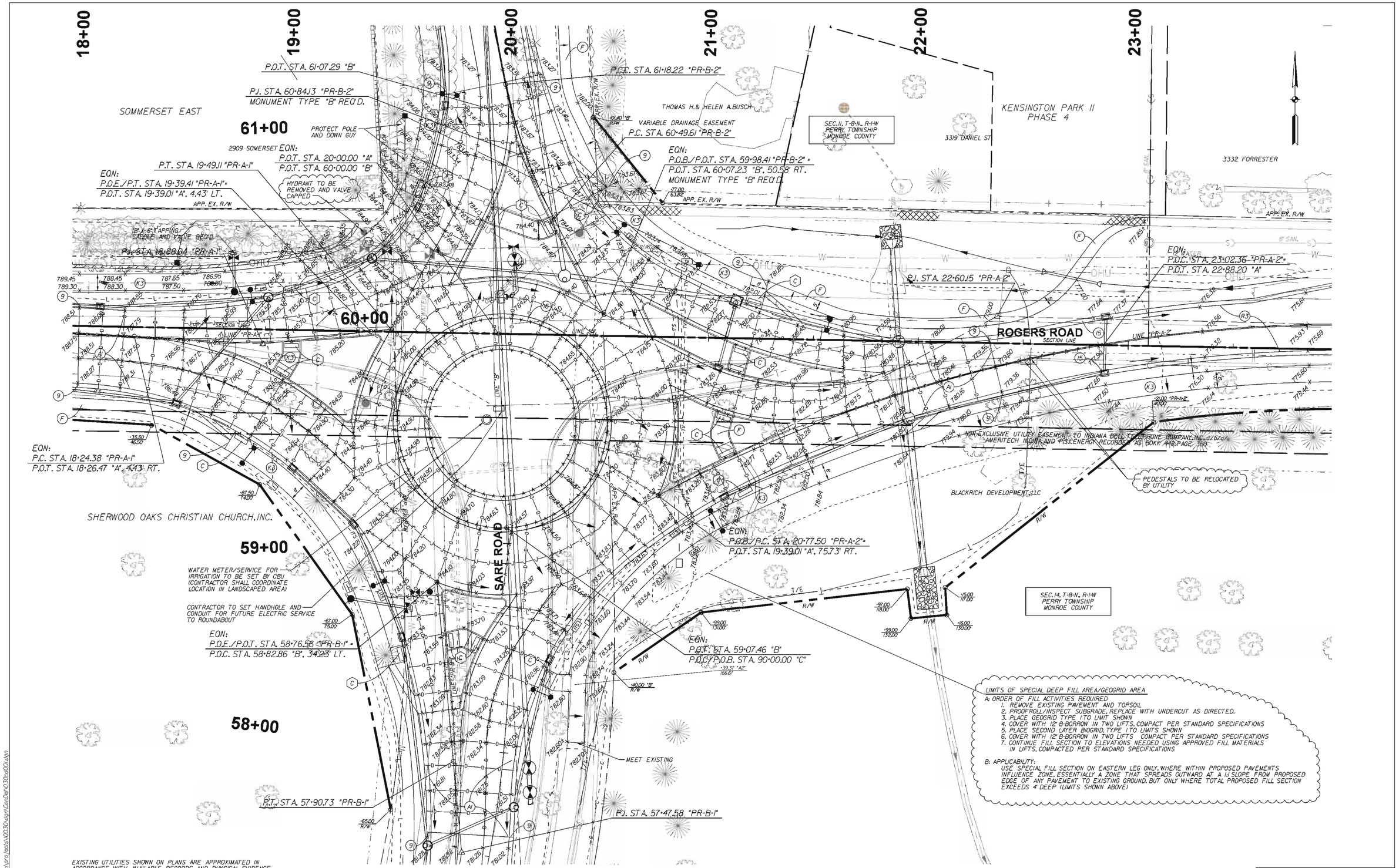


TBM #4 - CUT 'X' ON E BONNET BOLT OF FIRE HYDRANT, SW CORNER OF SARE ROAD/BUTTONWOOD LANE EL=804.41



RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1" = 20'-0" / BRIDGE FILE N/A
		VERTICAL SCALE 1" = 5'-0" / DESIGNATION 0900213
DESIGNED: BR / DRAWN: SI	PLAN AND PROFILE LINES "PR-B-2" / "B"	SURVEY BOOK / SHEETS 15 of 54
CHECKED: X / CHECKED: BR		CONTRACT R-33668 / PROJECT 0900213

3:51:30 AM
3/22/2011
pp08
c:\pro\tedt\00030\dgn\planpf01.dgn



EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATED IN ACCORDANCE WITH AVAILABLE RECORDS AND PHYSICAL EVIDENCE. OTHER UTILITIES MAY BE PRESENT. ACTUAL LOCATIONS AND ELEVATIONS ARE TO BE DETERMINED BY CONTRACTOR.

ALL R/W AND TOPO DESCRIBED FROM LINE "A"

SEE SHEET 2 FOR LEGEND

JOINT LAYOUT KEY

—A—A—A—A—	EXPANSION JOINT
—J—J—J—J—	CONSTRUCTION JOINT
—K—K—K—K—	KEYWAY JOINT
—D——D——D—	D-1 CONTRACTION JOINT

STAGE 3 PLANS FOR REVIEW ONLY

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: BR DRAWN: SI

CHECKED: AR CHECKED: BR

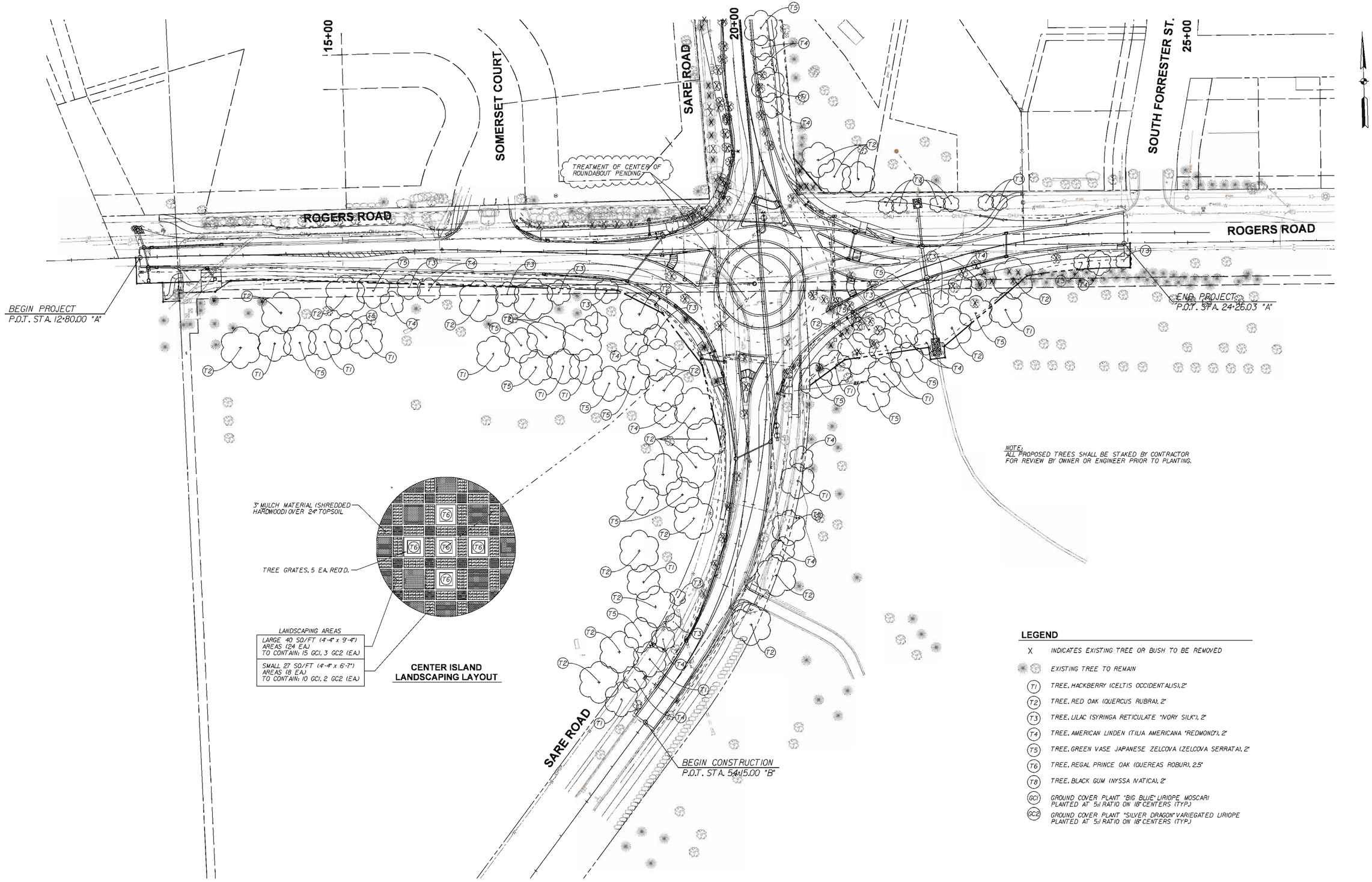
INDIANA DEPARTMENT OF TRANSPORTATION

ROUNDABOUT DETAIL AND GRADING PLAN

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'-0"	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	16 of 54
CONTRACT	PROJECT
R-33668	0900213

c:\pw_data\0030\dgn\Con\Dgn\030c001.dgn

CDO 3/22/2011 3:51:42 AM



c:\projects\00350\Dgn\Landscape\0350ln01.dgn

LAN001 3/22/2011 4:06:50 AM

STAGE 3 PLANS FOR REVIEW ONLY

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

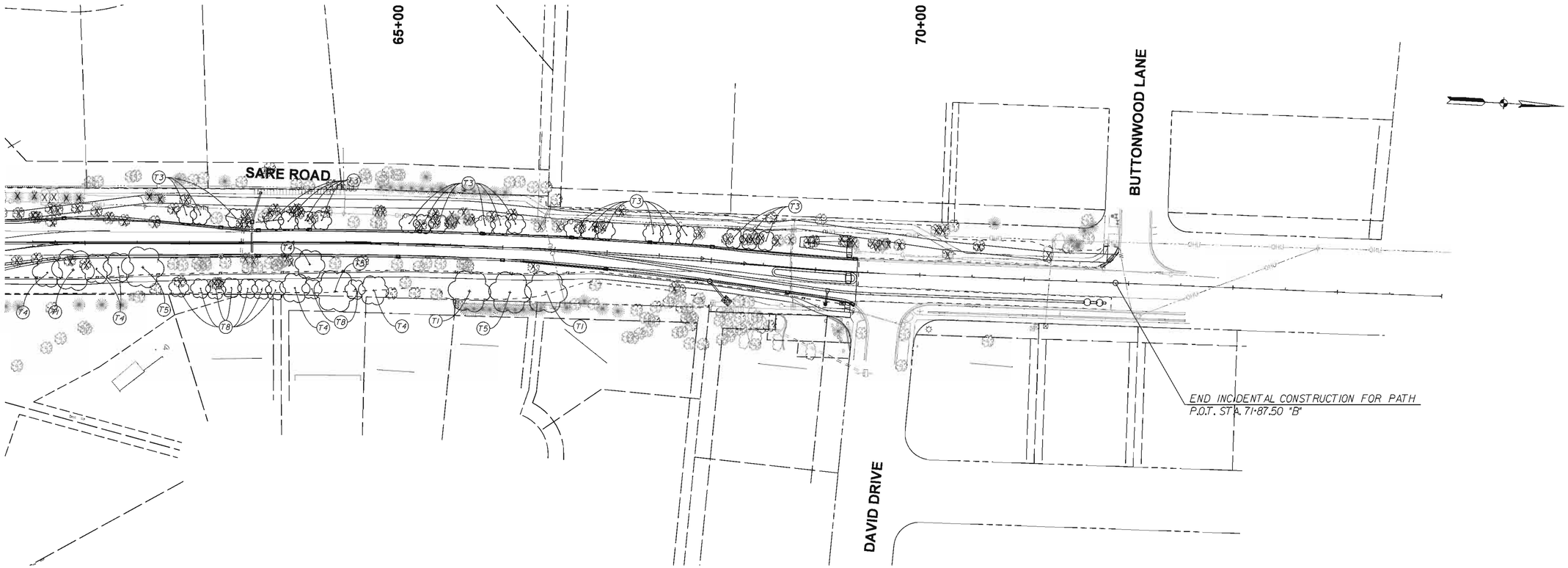
DESIGNED: BR DRAWN: SI

CHECKED: AR CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

LANDSCAPE AND PLANTING PLANS

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'-0"	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	17 of 54
CONTRACT	PROJECT
R-33668	0900213



TREE AND BUSH SUMMARY

"X" indicates Trees or Bushes to be Removed

New Trees and Ground Cover Plants Required

Plan Code	Scientific Name	Common Name	Caliper	Quantities by Area: W Leg N Side	N Leg W Side	N Leg E Side	E Leg N Side	E Leg S Side	S Leg E Side	S Leg W Side	W Leg S Side	Center Island	Quantity	Totals
TREES														
T1	Celtis occidentalis	Hackberry	2"	0	0	3	0	3	2	3	6	0	17	137
T2	Quercas rubra	Red Oak	2"	0	0	3	0	3	2	10	9	0	27	
T3	Syringa reticulate	"Ivory Silk" Tree Lilac	2"	0	22	0	6	5	0	2	6	0	41	
T4	Tilia Americana	"Redmond" American Linden	2"	0	0	6	0	4	2	3	3	0	18	
T5	Zelkova serrata	Green Vase Japanese Zelcova	2"	0	0	3	0	5	2	3	7	0	20	
T6	Quercas robur x bicolor 'Long'	Regal Prince Oak	2.5"	0	0	0	0	0	0	0	0	5	5	
T8	Nyssa sylvatica	Blackgum	2"	0	0	9	0	0	0	0	0	0	9	
GROUND COVER														
GC1	Liriope Muscari	Big Blue' Lilytuft	2.25" Pot	0	1125	0	0	0	0	0	0	440	1565	1878
GC2	Liriope Muscari	Silver Dragon' Lilytuft - Variegated	2.25" Pot	0	225	0	0	0	0	0	0	88	313	

c:\pw\tests\I0030\dgn\Landscape\030landOl.dgn

LANI002
3/22/2011 3:52:24 AM

STAGE 3 PLANS
FOR REVIEW ONLY

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

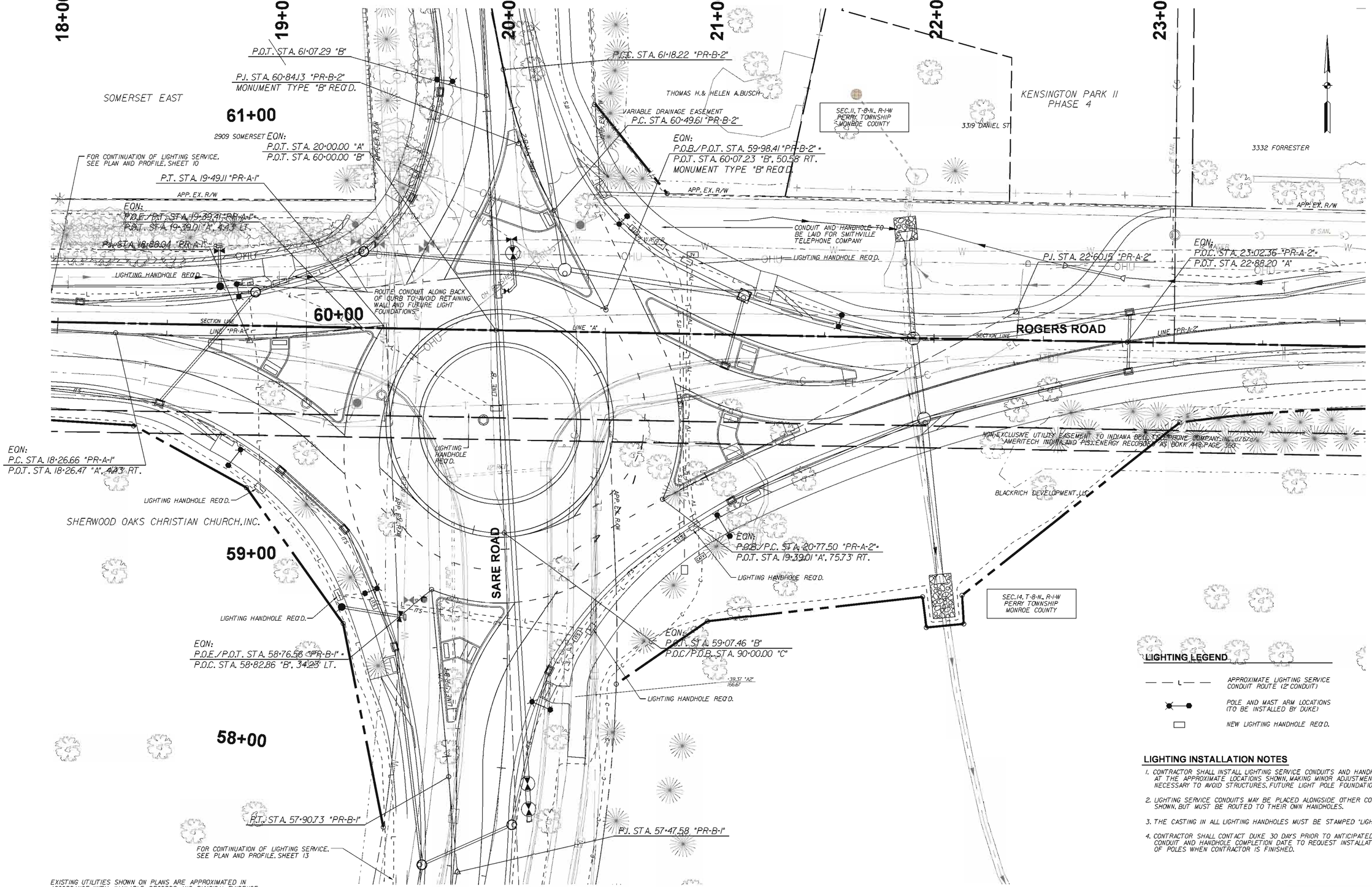
DESIGNED: BR | DRAWN: SI

CHECKED: AR | CHECKED: BR

INDIANA
DEPARTMENT OF TRANSPORTATION

LANDSCAPE AND PLANTING PLANS

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'-0"	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	18 of 54
CONTRACT	PROJECT
R-33668	0900213



EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATED IN ACCORDANCE WITH AVAILABLE RECORDS AND PHYSICAL EVIDENCE. OTHER UTILITIES MAY BE PRESENT. ACTUAL LOCATIONS AND ELEVATIONS ARE TO BE DETERMINED BY CONTRACTOR.

ALL R/W AND TOPO DESCRIBED FROM LINE "A"

LIGHTING LEGEND

- APPROXIMATE LIGHTING SERVICE CONDUIT ROUTE (2" CONDUIT)
- POLE AND MAST ARM LOCATIONS (TO BE INSTALLED BY DUKE)
- NEW LIGHTING HANDHOLE REQ'D.

LIGHTING INSTALLATION NOTES

1. CONTRACTOR SHALL INSTALL LIGHTING SERVICE CONDUITS AND HANDHOLES AT THE APPROXIMATE LOCATIONS SHOWN, MAKING MINOR ADJUSTMENTS AS NECESSARY TO AVOID STRUCTURES, FUTURE LIGHT POLE FOUNDATIONS, ETC.
2. LIGHTING SERVICE CONDUITS MAY BE PLACED ALONGSIDE OTHER CONDUITS SHOWN, BUT MUST BE ROUTED TO THEIR OWN HANDHOLES.
3. THE CASTING IN ALL LIGHTING HANDHOLES MUST BE STAMPED "LIGHTING".
4. CONTRACTOR SHALL CONTACT DUKE 30 DAYS PRIOR TO ANTICIPATED CONDUIT AND HANDHOLE COMPLETION DATE TO REQUEST INSTALLATION OF POLES WHEN CONTRACTOR IS FINISHED.

SEE SHEET 2 FOR LEGEND

● NEW LIGHT POLE LOCATIONS (TYP. FOUNDATION LOCATION IS 5' BEHIND CURB, UNLESS BETWEEN CURB AND WALK, IN WHICH CASE THE POLE SHALL BE INSTALLED TO BE 1' CLEAR FROM THE ADJACENT EDGE OF WALK/PATH.

STAGE 2 PLANS FOR REVIEW ONLY

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: BR DRAWN: SI

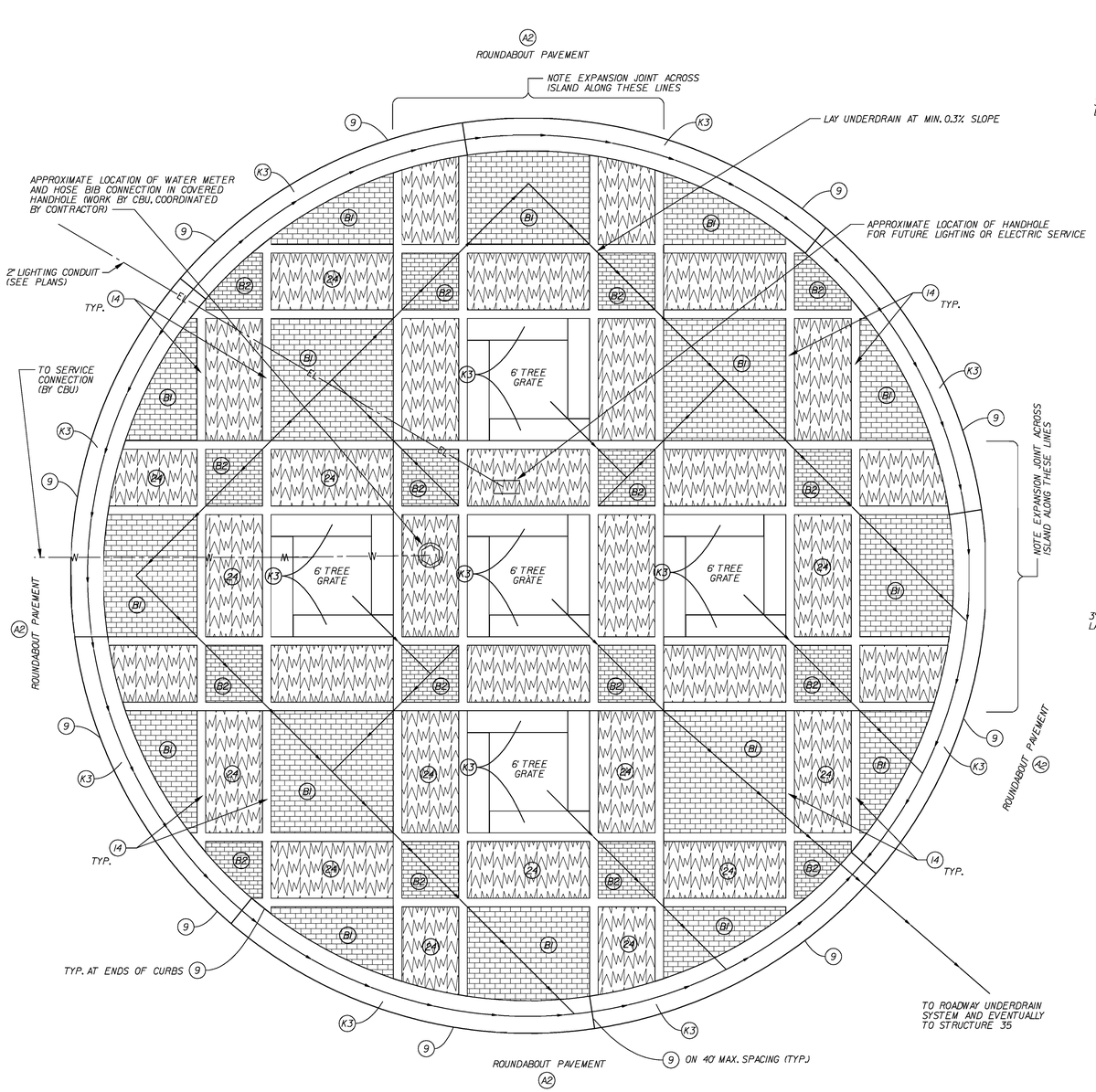
CHECKED: AR CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN AND DETAILS

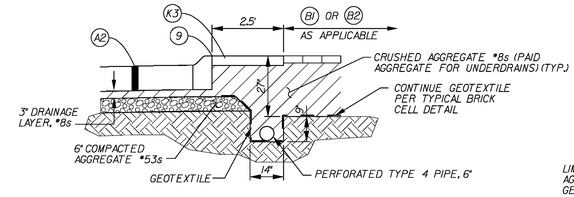
HORIZONTAL SCALE	BRIDGE FILE
1" = 20'-0"	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	19 of 54
CONTRACT	PROJECT
R-33668	0900213

c:\pro ledis\0030\dgn\Lighting\030ll01.dgn
11H001 3/22/2011 3:52:38 AM

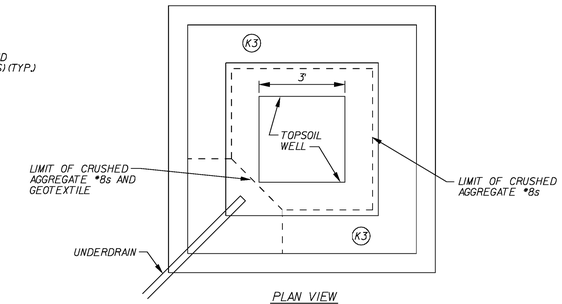


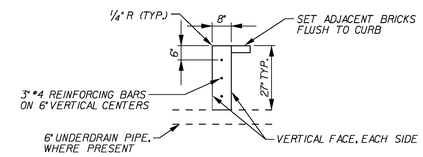
SEE SHEETS 17 - 18 FOR LANDSCAPING/PLANTING REQUIREMNTS

CENTER ISLAND LAYOUT
1" = 5'-0"

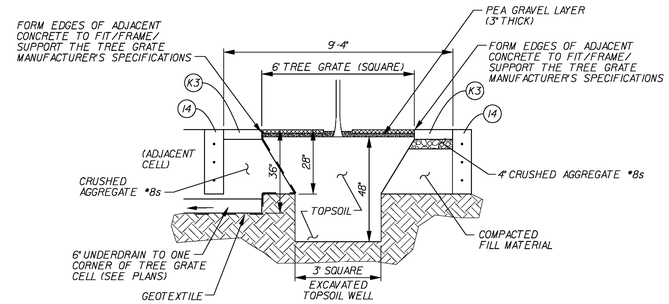


CENTER ISLAND EDGE DETAIL (WHERE NEXT TO BRICK PAVEMENT)
NTS

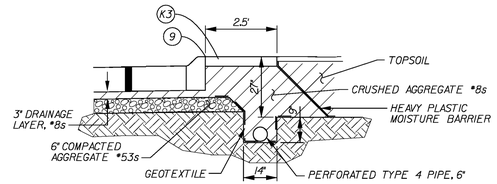




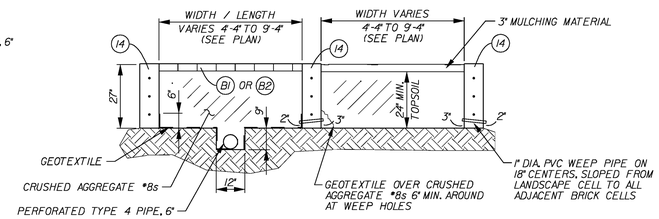
14 VERTICAL CURB IN CENTER ISLAND
NTS



TREE GRATE CELL DETAIL
NTS

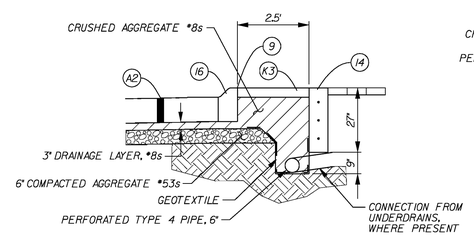


CENTER ISLAND EDGE DETAIL (WHERE NEXT TO LANDSCAPE AREA)
NTS

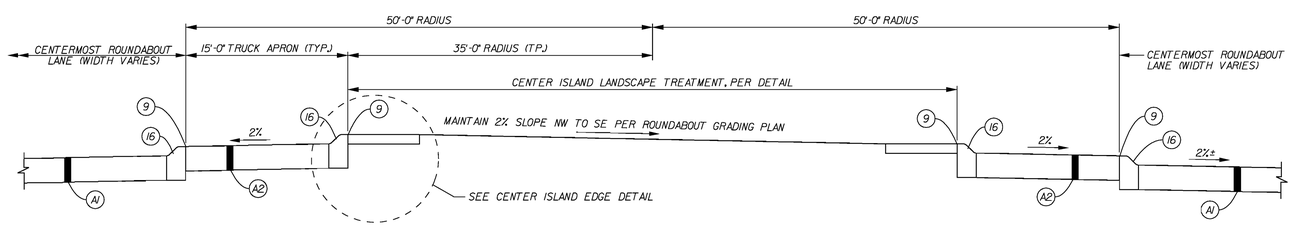


TYPICAL BRICK CELL NTS

TYPICAL LANDSCAPE CELL NTS



CENTER ISLAND EDGE DETAIL (WHERE NEXT TO CURB)
NTS



CENTER ISLAND DETAIL
NTS

LEGEND

- UNDERDRAINS, 6"
- (9) EXPANSION JOINT MATERIAL
- (14) VERTICAL CURB, 8" WIDE, TWO-VERTICAL FACES COLORED SAME AS (K3)
- (24) PLANTING AREA, 3" MULCH ON MIN. 24" TOPSOIL WITH GROUND COVER PLANTS PER LANDSCAPE DETAIL
- (B1) BRICK PAVEMENT, PRIMARY COLOR
- (B2) BRICK PAVEMENT, SECONDARY COLOR
- (K3) 5" SIDEWALK, COLORED CONCRETE

STAGE 3 PLANS FOR REVIEW ONLY

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: BR DRAWN: SI

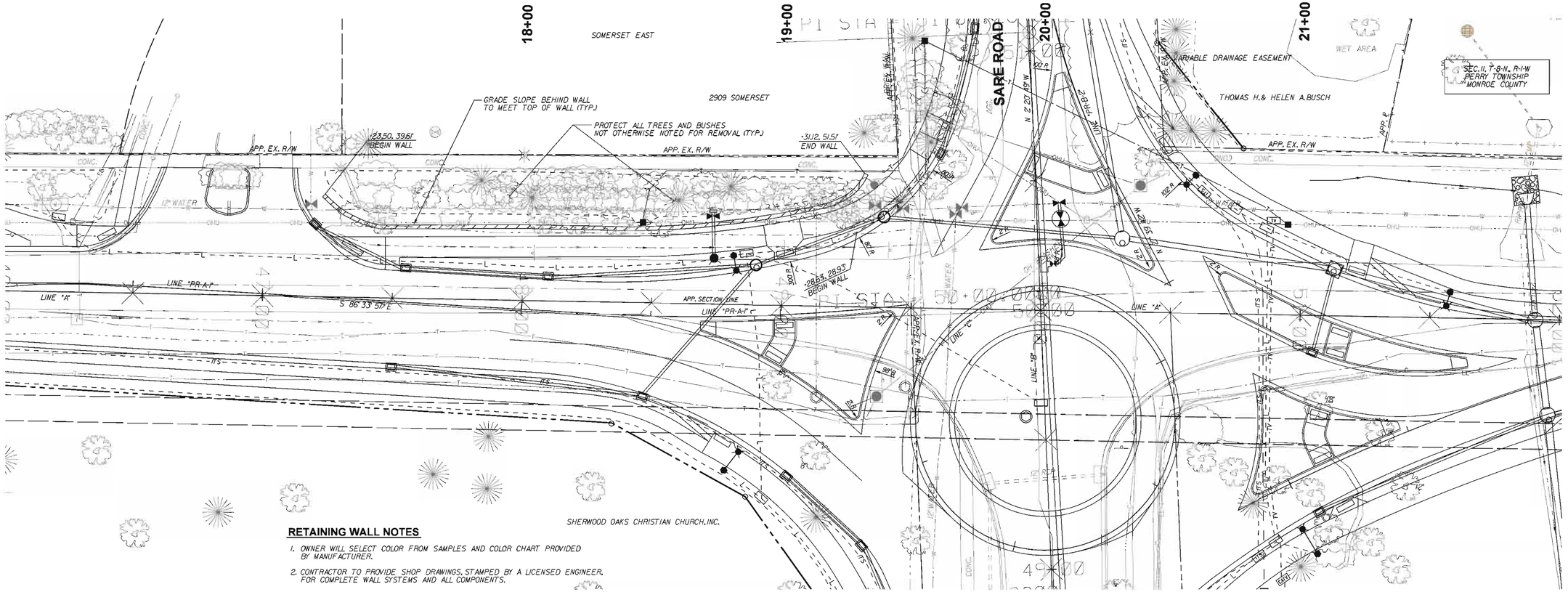
CHECKED: AR CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

ROUNDABOUT CENTER ISLAND LAYOUT / LANDSCAPING DETAILS

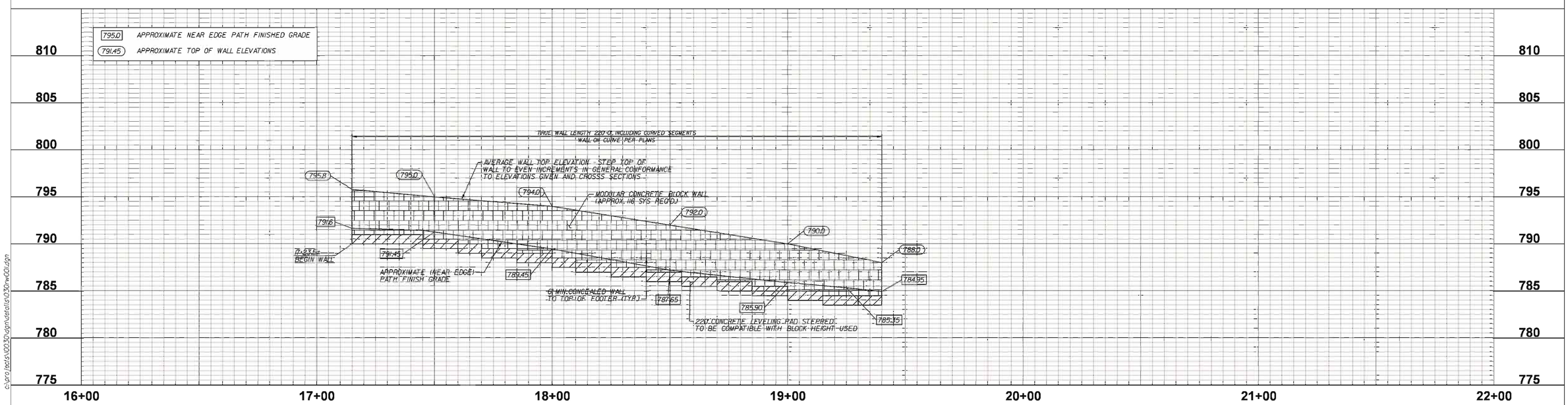
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	N/A
VERTICAL SCALE	DESIGNATION
N/A	0900213
SURVEY BOOK	SHEETS
	21 of 54
CONTRACT	PROJECT
R-33668	0900213

c:\projects\00350\dgn\details\0350d002.dgn
3:52:51 AM
RAB-Det
3/22/2011



RETAINING WALL NOTES

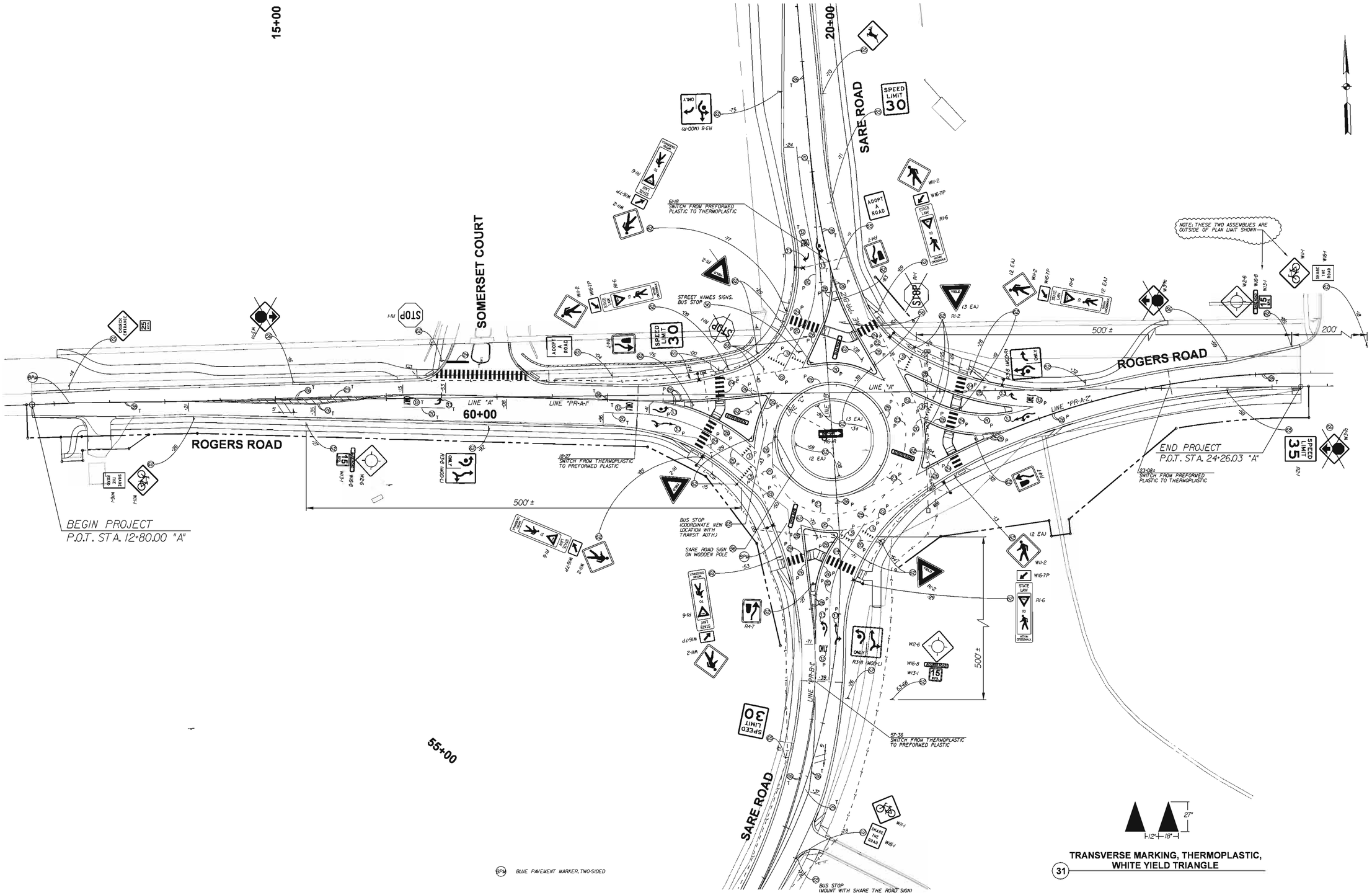
1. OWNER WILL SELECT COLOR FROM SAMPLES AND COLOR CHART PROVIDED BY MANUFACTURER.
2. CONTRACTOR TO PROVIDE SHOP DRAWINGS, STAMPED BY A LICENSED ENGINEER, FOR COMPLETE WALL SYSTEMS AND ALL COMPONENTS.



c:\projects\00030\dgn\details\030rw001.dgn

RW001 3/22/2011 3:53:08 AM

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1" = 20'-0"	BRIDGE FILE N/A
		VERTICAL SCALE 1" = 5'-0"	DESIGNATION 0900213
DESIGNED: BR / DRAWN: SI	RETAINING WALL DETAILS	SURVEY BOOK	SHEETS 20 of 54
CHECKED: X / CHECKED: BR		CONTRACT R-33668	PROJECT 0900213



SIGN LEGEND

- (50) NO CHANGE REQUIRED TO EXIST. SIGN & SUPPORTS
- (56) REMOVE EXIST. SHEET SIGN & SUPPORTS
- (65) RELOCATE EXIST. SIGN ON NEW POST(S)
- (62) NEW SIGN AND POST(S)

PAVEMENT MARKING LEGEND

- (20) LINE, SOLID WHITE, 4 INCHES
- (22) LINE, DOTTED WHITE, 8 INCHES, 2 LINE, 2' GAP
- (23) LINE, DOTTED WHITE, 4 INCHES, 2 LINE, 4' GAP
- (24) LINE, SOLID WHITE, CROSSWALK/ AND STOP BARS, 24 INCHES
- (25) LINE, DOTTED, WHITE, 4 INCHES, 2 LINE, 8' GAP
- (26) LINE, SOLID YELLOW, 4"
- (27) LINE, SOLID YELLOW, 8"
- (29) TRANSVERSE MARKING, CROSSHATCH, YELLOW, 12'
- (31) TRANSVERSE MARKING, WHITE YIELD TRIANGLE
- (32) TRANSVERSE MARKING, WORD (ONLY)
- (33) TRANSVERSE MARKING, LANE INDICATION ARROW

"P" INDICATES PREFORMED PLASTIC, "T" INDICATES THERMOPLASTIC

STAGE 3 PLANS FOR REVIEW ONLY

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: BR | DRAWN: SI

CHECKED: AR | CHECKED: BR

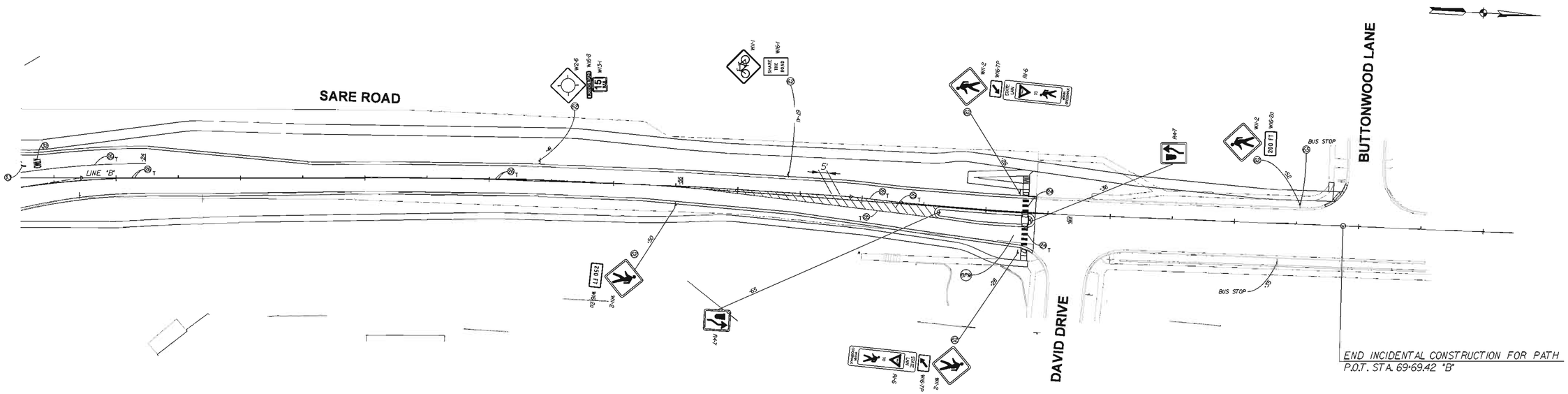
INDIANA DEPARTMENT OF TRANSPORTATION

SIGN AND PAVEMENT MARKINGS

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'-0"	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	22 of 54
CONTRACT	PROJECT
R-33668	0900213

c:\pro1\pets\V0350\dgn\PavMark\V30pvm01.dgn

PVM01 3/22/2011 3:55:56 AM



PAVEMENT MARKINGS
SUMMARY OF QUANTITIES BY AREA

			NORTH APPROACH		EAST APPROACH		SOUTH APPROACH		WEST APPROACH		ROUNDABOUT	TOTALS:	
		PAY	Thermo-	Preformed	Thermo-	Preformed	Thermo-	Preformed	Thermo-	Preformed	Preformed	Thermo-	Preformed
CODE	DESCRIPTION	UNIT	plastic	Plastic	plastic	Plastic	plastic	Plastic	plastic	Plastic	Plastic	plastic	Plastic
20	Solid White Line, 4"	LFT	106	103	0	117	0	147	70	120	243	176	730
22	Dotted White Line, 8", 2' Line - 2' Gap	LFT	0	45	0	0	0	0	0	0	243	0	288
23	Dotted White Line, 4", 2' Line - 4' Gap	LFT	0	0	0	0	0	0	0	0	280	0	280
24	Solid White Line, 24", Stop Bars / Crosswalks	LFT	35	96	0	88	0	88	180	96	0	215	368
25	Dotted White Line, 4", 2' Line - 8' Gap	LFT	0	0	0	0	0	0	0	0	110	0	110
26	Solid Yellow Line, 4"	LFT	1484	221	236	620	1127	420	1130	290	330	3977	1881
29	Transverse Marking, Yellow Crosshatch, 12"	LFT	170	0	0	0	287	0	108	0	0	565	0
31	Transverse Marking, White Yield Triangle	LFT	0	32	0	32	0	25	0	30	0	0	119
32	Transverse Marking, Word (ONLY)	EACH	1	0	0	1	0	1	2	0	0	3	2
33	Transverse Marking, Lane Indication Arrow	EACH	2	0	0	2	0	2	1	2	0	3	6

SIGN LEGEND

- (50) NO CHANGE REQUIRED TO EXIST. SIGN & SUPPORTS
- (56) REMOVE EXIST. SHEET SIGN & SUPPORTS
- (65) RELOCATE EXIST. SIGN ON NEW POST(S)
- (62) NEW SIGN AND POST(S)

PAVEMENT MARKING LEGEND

- (20) LINE, SOLID WHITE, 4 INCHES
- (22) LINE, DOTTED WHITE, 8 INCHES, 2' LINE, 2' GAP
- (23) LINE, DOTTED WHITE, 4 INCHES, 2' LINE, 4' GAP
- (24) LINE, SOLID WHITE, CROSSWALK / AND STOP BARS, 24 INCHES
- (25) LINE, DOTTED, WHITE, 4 INCHES, 2' LINE, 8' GAP
- (26) LINE, SOLID YELLOW, 4"
- (27) LINE, SOLID YELLOW, 8"
- (29) TRANSVERSE MARKING, CROSSHATCH, YELLOW, 12"
- (31) TRANSVERSE MARKING, WHITE YIELD TRIANGLE
- (32) TRANSVERSE MARKING, WORD (ONLY)
- (33) TRANSVERSE MARKING, LANE INDICATION ARROW

"P" INDICATES PREFORMED PLASTIC, "T" INDICATES THERMOPLASTIC

STAGE 3 PLANS FOR REVIEW ONLY

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: BR DRAWN: SI

CHECKED: AR CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

SIGN AND PAVEMENT MARKINGS

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'-0"	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	23 of 54
CONTRACT	PROJECT
R-33668	0900213

c:\projects\0030\dgn\PaveMark\030pvmt01.dgn
PVMOP 3/22/2011 3:53:43 AM

SHEET SIGN SUMMARY TABLE

LOCATION				SIGN DATA													POST DATA										
										ENCAPSULATED LENS METAL THICKNESS (in.)			~~ENCLOSED LENS METAL THICKNESS (in.)~~			SQUARE, QWIK - PUNCH											
																TYPE 2 2"x2"x12 ga.			TYPE 1 2.25" x 2.25" x 12 ga.			TYPE 3 2.5"x2.5"x12 ga.			PVC PIPE SLEEVE FOR SIGN IN SIDEWALK	REMARKS
																REINFORCED			REINFORCED			UNREINFORCED				
STATION	LEFT	MEDIAN	RIGHT	SIGN DESCRIPTION	SIGN CODE	SIGN SIZE	REMOVE SIGN	RELOCATE EXISTING SIGN	NEW SIGN	0.080	0.100	0.125	~~0.080~~	~~0.100~~	~~0.125~~	POST LENGTH (FT)			POST LENGTH (FT)			POST LENGTH (FT)				
						in. x in.	EACH	EACH		SFT	SFT	SFT	~~SFT~~	~~SFT~~	~~SFT~~	1	2	TOTAL	1	2	TOTAL	1	2	TOTAL	EACH	
LINE "A"																											
13+14	X			CHURCH ENTRANCE / 25 MPH	Existing	Existing		1											12		12						
14+26			X	BICYCLES	W11-1	30 x 30			X	6.25									12		12						
14+26			X	SHARE THE ROAD	W16-1P	18 x 24			X	3.00																	Mount with Bicycle Warning Sign
15+16	X			SYMBOLIC STOP AHEAD	W3-1	Existing	X																				
15+27			X	ROUNDABOUT AHEAD	W2-6	30 x 30			X	6.25									12		12						
15+27			X	SARE ROAD	W16-8P	Length x 8			X	1.67																	Mount with Roundabout Ahead
15+27			X	15 MPH	W13-1P	18 x 18			X	2.25																	Mount with Roundabout Ahead
16+51	X			STOP	R1-1	30 x 30			X	6.25									12		12						
16+92			X	ADVANCE LANE CONTROL	Mod. R3-8L	30 x 30			X	6.25									12		12						
18+04	X			ADOPT A ROAD	Existing	Existing		1											12		12						
18+74	X			SPEED LIMIT 30	Existing	Existing		1											12		12						
18+76		X		SYMBOLIC KEEP RIGHT	R4-7	24 x 30			X	5.00									12		12						
18+85			X	PEDESTRIAN CROSSING	W11-2	36 x 36			X		9.00								12		12						
18+85			X	DOWNWARD DIAGONAL ARROW	W16-7P	24 x 12			X	2.00																	Mount with Pedestrian Crossing
18+85			X	YIELD TO PEDS IN XWALK	R1-6	12 x 36			X	3.00																	Mount with Pedestrian Crossing
19+09	X			PEDESTRIAN CROSSING	W11-2	36 x 36			X		9.00								12		12						
19+09	X			DOWNWARD DIAGONAL ARROW	W16-7P	24 x 12			X	2.00																	Mount with Pedestrian Crossing
19+09	X			YIELD TO PEDS IN XWALK	R1-6	12 x 36			X	3.00																	Mount with Pedestrian Crossing
19+15			X	YIELD	R1-2	36 x 36 x 36			X		4.50								12		12						
19+29			X	YIELD	R1-2	36 x 36 x 36			X		4.50								12		12						
19+34		X		STREET NAME "ROGERS RD"	D3-1	Length x 12			X		4.00								12		12						
19+40			X	STOP	Existing	Existing	X																				
19+43			X	BUS STOP	Existing	Existing		1											12		12						
19+50			X	SARE ROAD	Existing	Existing	X																				
19+69		X		ONE WAY RIGHT	R6-1R	36 x 12			X		3.00								12		12						
19+89		X		ONE WAY RIGHT	R6-1R	36 x 12			X		3.00								12		12						
20+08		X		ONE WAY RIGHT	R6-1R	36 x 12			X		3.00								12		12						
20+34		X		ONE WAY RIGHT	R6-1R	36 x 12			X		3.00								12		12						
20+39	X			ONE WAY RIGHT	R6-1R	36 x 12			X		3.00								12		12						
20+41	X			STOP	Existing	Existing	X																				
20+78	X			YIELD	R1-2	36 x 36 x 36			X		4.50								12		12						
20+89			X	YIELD	R1-2	36 x 36 x 36			X		4.50								12		12						
20+95			X	YIELD	R1-2	36 x 36 x 36			X		4.50								12		12						
20+94		X		STREET NAME "ROGERS RD"	D3-1	Length x 12			X		4.00								12		12						
21+19			X	PEDESTRIAN CROSSING	W11-2	36 x 36			X		9.00								12		12						
21+19			X	DOWNWARD DIAGONAL ARROW	W16-7P	24 x 12			X	2.00																	Mount with Pedestrian Crossing
21+19			X	YIELD TO PEDS IN XWALK	R1-6	12 x 36			X	3.00																	Mount with Pedestrian Crossing
21+13			X	PEDESTRIAN CROSSING	W11-2	36 x 36			X		9.00								12		12						
21+13			X	DOWNWARD DIAGONAL ARROW	W16-7P	24 x 12			X	2.00																	Mount with Pedestrian Crossing
21+13			X	YIELD TO PEDS IN XWALK	R1-6	12 x 36			X	3.00																	Mount with Pedestrian Crossing
21+28	X			PEDESTRIAN CROSSING	W11-2	36 x 36			X		9.00								12		12						
21+28	X			DOWNWARD DIAGONAL ARROW	W16-7P	24 x 12			X	2.00																	Mount with Pedestrian Crossing
21+28	X			YIELD TO PEDS IN XWALK	R1-6	12 x 36			X	3.00																	Mount with Pedestrian Crossing
21+32		X		SYMBOLIC KEEP RIGHT	R4-7	24 x 30			X	5.00									12		12						
22+32	X			ADVANCE LANE CONTROL	Mod. R3-8R	30 x 30			X	6.25									12		12						
23+59			X	SPEED LIMIT 35	Existing	Existing		1											12		12						
23+59			X	SYMBOLIC STOP AHEAD	W3-1	Existing	X																				
23+59	X			SYMBOLIC STOP AHEAD	W3-1	Existing	X																				
24+18	X			ROUNDABOUT AHEAD	W2-6	30 x 30			X	6.25									12		12						
24+18	X			SARE ROAD	W16-8	Length x 8			X	1.67																	Mount with Roundabout Ahead
24+18	X			15 MPH	W13-1P	18 x 18			X	2.25																	Mount with Roundabout Ahead
26+18	X			BICYCLES	W11-1	30 x 30			X	6.25									12		12						
26+18	X			SHARE THE ROAD	W16-1P	18 x 24			X	3.00																	Mount with Bicycle Warning Sign

STAGE 3 PLANS FOR REVIEW ONLY

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: BR DRAWN: SI

CHECKED: AR CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

SIGNS SUMMARY TABLE

HORIZONTAL SCALE	BRIDGE FILE
	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	24 of 54
CONTRACT	PROJECT
R-33668	0900213

c:\pw\projects\0030\dgn\Tables\030H001.dgn
SST-1 3/22/2011 3:53:51 AM

SHEET SIGN SUMMARY TABLE

LOCATION				SIGN DATA												POST DATA									PVC PIPE SLEEVE FOR SIGN IN SIDEWALK	REMARKS
										ENCAPSULATED LENS METAL THICKNESS (in.)			~~ENCLOSED LENS METAL THICKNESS (in.)~~			SQUARE, QWIK - PUNCH										
																TYPE 2 2"x2"x12 ga.			TYPE 1 2.25" x 2.25" x 12 ga.			TYPE 3 2.5"x2.5"x12 ga.				
																REINFORCED			REINFORCED			UNREINFORCED				
STATION	LEFT	MEDIAN	RIGHT	SIGN DESCRIPTION	SIGN CODE	SIGN SIZE	REMOVE SIGN	RELOCATE EXISTING SIGN	NEW SIGN	0.080	0.100	0.125	~~0.080~~	~~0.100~~	~~0.125~~	POST LENGTH (FT)			POST LENGTH (FT)			POST LENGTH (FT)				
						in. x in.	EACH	EACH		SFT	SFT	SFT	~~SFT~~	~~SFT~~	~~SFT~~	1	2	TOTAL	1	2	TOTAL	1	2	TOTAL	EACH	
LINE "B"																										
63+68			X	ROUNDABOUT AHEAD	W2-6	30 x 30			X	6									12		12					
63+68			X	ROGERS ROAD	W16-8P	Length x 8			X	2																Mount with Roundabout Ahead
63+68			X	15 MPH	W13-1P	18 x 18			X	2.25																Mount with Roundabout Ahead
55+78			X	BICYCLES	W11-1	30 x 30			X	6.25									12		12					
55+78			X	SHARE THE ROAD	W16-1P	18 x 24			X	3																Mount with Bicycle Warning Sign
55+78			X	BUS STOP	Existing	Existing		1																		Mount with Bicycle Warning Sign
56+61	X			SPEED LIMIT 30	Existing	Existing		1											12		12					
57+26			X	ADVANCE LANE CONTROL	Mod. R3-8L	30 x 30			X	6.25									12		12					
58+27		X		SYMBOLIC KEEP RIGHT	R4-7	24 x 30			X	5.00									12		12					
58+29			X	PEDESTRIAN CROSSING	W11-2	36 x 36			X		9								12		12					
58+29			X	DOWNWARD DIAGONAL ARROW	W16-7P	24 x 12			X	2																Mount with Pedestrian Crossing
58+29			X	YIELD TO PEDS IN XWALK	R1-6	12 x 36			X	3																Mount with Pedestrian Crossing
58+53	X			PEDESTRIAN CROSSING	W11-2	36 x 36			X		9								12		12					
58+53	X			DOWNWARD DIAGONAL ARROW	W16-7P	24 x 12			X	2																Mount with Pedestrian Crossing
58+53	X			YIELD TO PEDS IN XWALK	R1-6	12 x 36			X	3.00																Mount with Pedestrian Crossing
58+70		X		STREET NAME "SARE RD"	D3-1	Length x 12			X		4								12		12					
58+64			X	YIELD	R1-2	36 x 36 x 36			X		4.50								12		12					
58+71			X	YIELD	R1-2	36 x 36 x 36			X		4.5								12		12					
60+62			X	STOP	Existing	Existing	X																			
60+29	X			YIELD	R1-2	36 x 36 x 36			X		4.50								12		12					
60+41	X			YIELD	R1-2	36 x 36 x 36			X		4.50								12		12					
60+28		X		STREET NAME "SARE RD"	D3-1	Length x 12			X		4.00								12		12					
60+77	X			PEDESTRIAN CROSSING	W11-2	36 x 36			X		9.00								12		12					
60+77	X			DOWNWARD DIAGONAL ARROW	W16-7P	24 x 12			X	2.00																Mount with Pedestrian Crossing
60+77	X			YIELD TO PEDS IN XWALK	R1-6	12 x 36			X	3.00																Mount with Pedestrian Crossing
60+69			X	PEDESTRIAN CROSSING	W11-2	36 x 36			X		9.00								12		12					
60+69			X	DOWNWARD DIAGONAL ARROW	W16-7P	24 x 12			X	2.00																Mount with Pedestrian Crossing
60+69			X	YIELD TO PEDS IN XWALK	R1-6	12 x 36			X	3.00																Mount with Pedestrian Crossing
60+83		X		SYMBOLIC KEEP RIGHT	R4-7	24 x 30			X	5.00									12		12					
61+11			X	ADOPT A ROAD	Existing	Existing		1											12		12					
61+71			X	SPEED LIMIT 30	Existing	Existing		1											12		12					
62+70			X	SYMBOLIC DEER CROSSING	Existing	Existing		1											12		12					
62+75	X			ADVANCE LANE CONTROL	Mod. R3-8R	30 x 30			X	6.25									12		12					
67+41	X			BICYCLES	W11-1	30 x 30			X	6.25									12		12					
67+41	X			SHARE THE ROAD	W16-1P	18 x 24			X	3.00																Mount with Bicycle Warning Sign
65+41	X			ROUNDABOUT AHEAD	W2-6	30 x 30			X	6									12		12					
65+41	X			ROGERS ROAD	W16-8	Length x 8			X	1.67																Mount with Roundabout Ahead
65+41	X			15 MPH	W13-1P	18 x 18			X	2.25																Mount with Roundabout Ahead
66+50			X	PEDESTRIAN CROSSING	W11-2	36 x 36			X		9.00								12		12					
66+50			X	250 FEET	W16-2A	24 x 18			X	3.00																Mount with Pedestrian Crossing
68+65		X		SYMBOLIC KEEP RIGHT	R4-7	24 x 30			X	5.00									12		12					
69+28			X	PEDESTRIAN CROSSING	W11-2	36 x 36			X		9.00								12		12					
69+28			X	DOWNWARD DIAGONAL ARROW	W16-7P	24 x 12			X	2.00																Mount with Pedestrian Crossing
69+28			X	YIELD TO PEDS IN XWALK	R1-6	12 x 36			X	3.00																Mount with Pedestrian Crossing
69+26	X			PEDESTRIAN CROSSING	W11-2	36 x 36			X		9								12		12					
69+26	X			DOWNWARD DIAGONAL ARROW	W16-7P	24 x 12			X	2.00																Mount with Pedestrian Crossing
69+26	X			YIELD TO PEDS IN XWALK	R1-6	12 x 36			X	3																Mount with Pedestrian Crossing
69+36		X		SYMBOLIC KEEP RIGHT	R4-7	24 x 30			X	5.00									12		12					
71+52	X			PEDESTRIAN CROSSING	W11-2	36 x 36			X		9.00								12		12					
71+52	X			200 FEET	W16-2A	24 x 18			X	3.00																Mount with Pedestrian Crossing
71+35	X			BUS STOP	Existing	Existing		1											12		12					
TOTALS								11		199.93	188.5	0.0						0			720			0	0	
PAY UNIT								EACH		SFT	SFT	SFT						LFT			LFT			LFT	EACH	

STAGE 3 PLANS FOR REVIEW ONLY

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: BR DRAWN: SI

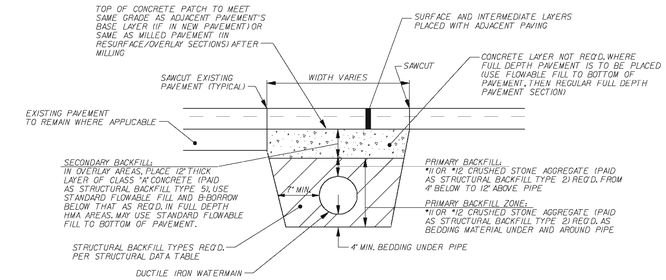
CHECKED: AR CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

SIGNS SUMMARY TABLE

HORIZONTAL SCALE	BRIDGE FILE
	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	25 of 54
CONTRACT	PROJECT
R-33668	0900213

e:\pro\fields\900350\dgn\Tables\030H001.dgn
SST-2 3/22/2011 3:53:54 AM



BACKFILL AND PAVEMENT PATCHING OVER WATERMAINS

NTS

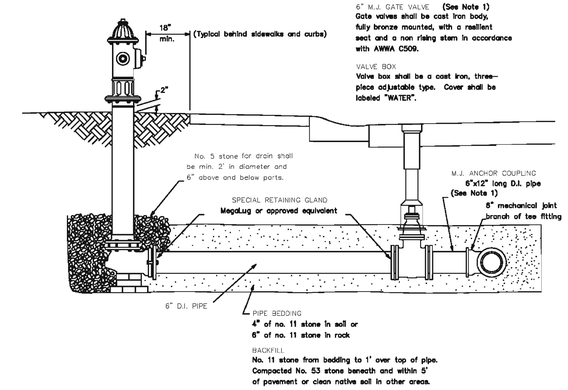
NOTES

1. For connection to existing water mains, a 6" tapping valve and saddle shall be used in place of the gate valve and anchor coupling.

FIRE HYDRANT

Fire hydrants shall conform to ANSI/AWWA C502 and must be Kennedy Guardian model K81 or Mueller Super Centurion 200 (catalog no. A-423) or Waterous Pacer Classic. These are dry-barrel type firehydrants with a 5." main valve opening, two hose nozzles and one pumper nozzle. Hydrants shall have a mechanical joint type connection and shall be painted according to 4.4.4.4. FIRE HYDRANTS.

Install fire hydrant at a minimum of 2' from structures or obstructions and set the hydrant bury line 2" above finished grade. The pumper nozzle must face the street.



STANDARD FIRE HYDRANT AND CONNECTION DETAIL

NTS

ALL WATERMAIN FEATURES SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS FOR CITY OF BLOOMINGTON UTILITIES WASTEWATER, WATER AND STORM PROJECTS ISSUE DATED JANUARY 1, 2011

c:\pro|ects\0030\dgn\details\030r001.dgn

Det-Water 3/22/2011 3:53:57 AM

STAGE 3 PLANS FOR REVIEW ONLY

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: BR DRAWN: SI

CHECKED: AR CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

WATERMAIN DETAILS

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	0900213
SURVEY BOOK	SHEETS
	26 of 54
CONTRACT	PROJECT
R-33668	0900213

MISCELLANEOUS QUANTITIES SUMMARY TABLE

LOCATION					SIDEWALKS AND RAMPS										CURBS																					CONDUITS				MONUMENTS					
					SIDEWALKS		PATHS			RAMPS																																				
FROM STATION	TO STATION	LEFT	ISLANDS	RIGHT	LENGTH OF 5' SIDEWALK	SIDEWALK AREA (SIDEWALK, 4")	LENGTH OF 8' PATH	PATH AREA, COLORED (SIDEWALK, 5")	JOINT MATERIAL FOR EXPANSION	RAMP Type (1)	RAMP AREA (1)	RAMP Type (2)	RAMP AREA (2)	COMPACTED AGG. BASE UNDER WALKS, PATHS & RAMPS	CENTER CURB, C	CONCRETE CURB, 8" FACE (BARRIER)	CURB AND GUTTER, 24", 8" FACE	INTEGRAL CONCRETE CURB, TYPE C	INTEGRAL CONCRETE CURB, TYPE B	CURB and GUTTER, 24", 8" FACE, REVERSE SLOPED	TWO-SIDED VERTICAL CURB	VALVE COVER, ADJUST TO GRADE	CAP WATER VALVE	NURSERY SODDING FOR LAWNS	EROSION CONTROL BLANKET	MULCHING MATERIAL	TOPSOIL UNDER SOD/MULCH	TOPSOIL IN LANDSCAPE BEDS	BRICK PAVERS	CRUSHED STONE, #8s, PAY AS AGG. FOR UNDERDRAINS	CONCRETE STEPS	PEDESTRIAN HANDRAIL	MODULAR BLOCK RETAINING WALL	LEVELING PAD	HANDHOLES	CONDUIT, 4" PVC, MULTI-CELL, ITS	CONDUIT, 4" PVC, COMCAST	CONDUIT, 1.25" PVC, SMITHVILLE	CONDUIT, 2", PVC, LIGHTING	MONUMENT, SECTION CORNER	MONUMENT, B	MONUMENT, C	MONUMENT, D	HYDRANT ASSEMBLY	TREE GRATES, 72" SQUARE
					LFT	SYS	LFT	SYS	LFT	TYPE	SYS	TYPE	SYS	TON	LFT	LFT	LFT	LFT	LFT	LFT	LFT	EACH	EACH	SYS	SYS	CYS	CYS	CYS	SYS	SYS	CYS	LFT	SYS	LFT	EACH	LFT	LFT	LFT	LFT	EACH	EACH	EACH	EACH	EACH	EACH
LINE A and PR-A1&2																																														
12+80	13+00	X		X										0.0			28							100			11								1	32									
13+00	14+00	X		X	87	48	96	85	44					24.7			157							482			53									200				1	1				
14+00	15+00	X		X	100	56	100	89	39					26.9			200							311			34									200					1				
15+00	16+00	X		X	100	56	100	89	39					26.9			200							289			32									200									
16+00	17+00	X		X	128	71	31	31	75	G	12			21.2		48	180							184			20								1	200			72		3				
17+00	18+00	X		X	100	56	57	51	65	G	12			22.1			210					1		256			28						46	83		200			100						
18+00	18+26.66	X		X	27	15	27	24	13					7.2			51							87			10						15	27		54			27				1		
18+26.66	(W. Entry)			X	50	32	68	60	37	C	11			19.1				127						114			13								1	272			120						
18+26.66	(W Exit)	X					125	111	32	C	19			24.1				119				1	1	228			25						55	110	1				150					1	
West Splitter Island			X				7	6	32	C	4.5	C	4.5	2.8	6	35		156											136	136									14			1			
East Spliiter Island (Prim)			X				11	10	28	C	4.5	C	4.5	3.5	6	43		134											93	93						138	45	122	61				1		
East Splitter Island (Byp)			X						32	C	5.5	C	5.5	2.0	6	24		180											98	98						128	55	122	61						
(E Exit)	22+00			X			145	129	40	C	5.5			25.0				150						787			86								4	40	36	36	60						
(E Bypass)	22+00	X			60	41	87	77	32	C	4.5			22.7				135						550			61								4	42	2	40	120						
22+00	23+08	X		X	130	72	108	96	52					31.2				216						1348			148																		
23+08	24+26	X		X			118	105	32	C	5.5			20.5			236							271			30																		
LINE B and PR-B1&2																																														
54+15	55+00	X		X					0					0.0			170							66			7								3	180			85		1				
55+00	56+00	X		X			10	9	16					1.7			175							122			13									200			100		1				
56+00	57+00	X		X	25	14	8	7	26					3.9			200							144			16									200			100			1			
57+00	57+36	X		X	36	20			10					3.7			72							88			10									72			36		1				
57+36	58+00	X		X	64	36	5	5	10					7.6				128						200			22									128			64				1		
58+00	(S. Exit)	X			39	29	58	52	34	C	5.5			16.1				98					1	130			14								2	56			110					1	
58+00	(S. Entry)			X			89	79	40	C	4.5			15.5				100						200			22								2	200			76						
South Splitter Island			X				7	6	32	C	4.5	C	4.5	2.8	6	23		114											71	71						180			95						
North Splitter Island			X				22	20	40	C	4.5	C	4.5	5.4	6	66		191				2							179	179												1			
(N. Exit)	61+18			X	60	39	18	16	45	C	4.5			11.0				67						116			13									160									
(N. Entry)	61+18	X					63	56	40	K	21.5			14.4				68						23	62	5	9												60				1		
61+18	62+00	X		X	82	46	82	73	39					22.1			158							270	158	13	47				50					164			50			1	1		
62+00	63+00	X		X	100	56	100	89	39					26.9			200							440	116	10	61				80					200					1				
63+00	64+00	X		X	100	56	100	89	39					26.9			179							667			73									200									
64+00	65+00	X		X	100	56	100	89	39					26.9			194							644			71									200					2				
65+00	66+00	X		X	100	56	100	89	39					26.9			194							656			72									200									
66+00	67+00	X		X	100	56	100	89	39					26.9			194							556			61									200					2				
67+00	68+00	X		X	100	56	100	89	39					26.9			194							344			38				50					200					2				
68+00	69+00	X		X	132	73	100	89	49					30.1			194			82				433			48		26	26		105				200					4				
69+00	70+00	X		X	113	63	100	89	79	2Cs	6	L	6	30.4			75			84				352			39		25	25	2	40			1	50								1	
70+00	71+00	X					100	89	24					16.5										244			27																		
71+00	72+00	X			7	3	79	70	37	G	6.5			14.8			16							94			10																		
LINE C																																														
90+00	93+14		X					87	754					16.1					534		846					11		101	127	127					1			120				2		5
TOTALS						1106		2244	2101					654	30	239	3477	1983	534	166	846	4	2	10796	336	39		1325	755	503	2	325	116	220	21	4696	138	320	1681	1	19	4	7	3	5
PAY UNIT						SYS		SYS	LFT					TON	LFT	LFT	LFT	LFT	LFT	LFT	LFT	EACH	EACH	SYS	SYS	CYS		CYS	SYS	CYS	CYS	LFT	SYS	LFT	EACH	LFT	LFT	LFT	LFT	EACH	EACH	EACH	EACH	EACH	EACH

RAMP SUMMARY:

Type	Area
C	113.0
G	30.5
K	21.5
L	6

HANDHOLE SUMMARY:

Use:	Quantity
ITS	8
Lighting	9
Comcast	2
Smithville	2

																											1224	101		755																
																											CYS	CYS		SYS																

c:\pw_local\0030\dgn\Tables\030H001.dgn

MSQ 3/22/2011 3:54:02 AM

STAGE 3 PLANS FOR REVIEW ONLY

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: BR DRAWN: SI

CHECKED: AR CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS SUMMARY OF QUANTITIES

HORIZONTAL SCALE	BRIDGE FILE
	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	27 of 54
CONTRACT	PROJECT
R-33668	0900213

PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION		DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE		GRADES FROM EDGE OF PAVEMENT (ALL HAVE 1.5" LIP AT EDGE OF DRIVE)				HMA FOR APPROACHES		HMA WIDENING, BASE B, IN TWO LIFTS	FLOWABLE FILL (Class A Concrete for Road Patching)	FULL DEPTH HMA PAVEMENT				FULL DEPTH CONCRETE						RESURFACING				TOP LAYER	SUBGRADE TREATMENT, TYPE "I"	MILLING, 1"	TACK COAT	PCCP FOR APPROACHES		COMPACTED AGG. No. 53s		REMARKS
							COMPACTED AGGREGATE BASE	HMA					SURFACE, Type A	INTERMEDIATE, Type A			INTERMEDIATE, B	BASE, B	INTERMEDIATE, OG	BASE, B	PCCP, 9"	COLORED PCCP, 9"	D-1 JOINTS	JOINY MATERIAL - EXPANSION JOINTS	SUBBBASE FOR PCCP, DRAINAGE LAYER, COMP. AGG. No. 8s	SUBBASE FOR PCCP, COMP. AGG. No. 53s	INTERMEDIATE, B	VARIABLE DEPTH WEDGE AND LEVEL, INTERMEDIATE, B			SURFACE, B				UNCOLORED, I DRIVE	UNCOLORED, CLASS III DRIVE	UNDER DRIVES - PAID AS SUBGRADE TREATMENT IIIA	PUBLIC ROAD APPROACHES	
													1.5"	2.5"	8"	12"	2.5"	3"	3"	3"							2.5"	AVG. DEPTH			1.5"				CLASS				
STATION RANGES									1	2	3	4	165#	275#	880#	12"	275#	330#	330#	330#	9"	9"			3"	6"	275#		AREA		165#				6"	9"	6"	8"	
FROM	TO		FT	FT	FT	FT	SYS	SYS	%	%	%	%	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	LFT	LFT	SYS	SYS	SYS	#/SYS	SYS	TONS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	
DRIVES AND APPROACHES																																								
13+40	R	CLASS III DRIVE	21	30	10/5	12.0	X		+4	-2	-6	-14																								80	80		
16+86	L	PUBLIC ROAD	70	35	30/30	N/A		X	+2	+6.5	+11		240	240																			240					240	
55+99	R	CLASS I DRIVE	12	20	20/10	N/A		X	-2																										36		36		
MAINLINE PAVEMENTS																																								
LINE A																																								
12+80	13+50	Widen, Resurface	19.5-24	70												16											171				171		156	342					
13+50	14+21	Widen, Resurface	24	71												28											189				189		158	378					
14+21	15+00	Widen, Resurface	24-28.5	79											37	13											231				231	37	180	462					
15+00	16+00	HMA Reconstruction	28.5-32.5	100													339	339	*A	794											339	428		67					*A - Use Base B instead of OG
16+00	16+32	HMA Reconstruction	32.5-36	32													122	122	178	183											122	150		244					
16+32	18+00	HMA Reconstruction	36	168													672	672	756	765											672	765		1344					
18+00	18+27	HMA Reconstruction	36-37	27													110	110	123	125											110	125		220					
18+27	(W. Entry)	PCCP	26.5-33	121																	438		310	76	449	449						449							
18+27	(W. Exit)	PCCP	13.5-36	134																	317		288	65	327	327						327							
(E.Exit)	22+00	PCCP	16	121																	210		176	32	220	220													
(E.Entry)	22+00	PCCP	20	113																	225		180	46	233	233													
(E. Bypass)		PCCP	20	153																	322		222	50	337	337													
22+00	23+08	PCCP	26-27	108																	332		217	0	342	342													
23+08	24+26	HMA Reconstruction	24	118													394	394	*A	913											394	298		788					*A - Use Base B instead of OG
LINE B																																								
54+15	54+53	Widen, Resurface	24	38											2												101				101	2	101	202					
54+53	56+00	Widen, Resurface	24-29.5	147											51												441				441.0	51	390	882					
56+00	57+36	Widen, Wedge & Level	29.5-36.5	136											105													750	499	187	499	105	394	998					
57+36	(S. Entry)	PCCP	26-31	148																	508		288	76	524	524						524							
57+36	(S. Exit)	PCCP	13.5-24.5	142																	312		189	65	318	318						318							
(N. Exit)	61+18	PCCP	16-19	126																	295		234	35	306	306						306							
(N. Entry)	61+18	PCCP	28-33	103																	367		306	25	378	378						378							
61+18	61+75	HMA Reconstruction	44-36	57													253	253	282	285											253	285		506					
61+75	62+24	HMA Reconstruction	36	49													196	196	221	223											196	223		392					
62+24	63+59	HMA Reconstruction	36-22	135													435	435	503	510											435	510		870					
63+59	65+50	HMA Reconstruction	22	191													467	467	562	573											467	573		934					
65+50	66+26	Resurface	22	76																							186				186		186	372					
66+26	68+59	Resurface	22-32.5	233																							712				712.0		712.0	1424					
68+59	69+40	Resurface with Island	24	81																							216				216		216	432					
69+40	71+84	Resurface over W.Main	12	244																							325				325			325					
LINE C																																								
Circular Lanes		PCCP	17.5-31.5	327	52																1158		980	140	1168	1168						1168							
Truck Apron		Colored PCCP	13	232	37																	395	330	60	516	516						516							
		SUBTOTALS:											240	240	195	57	2988	2988	2625	4371	4484	395	3720	670	5118	5118	2572			187	6059	7538	2493	11422	36	80	116	240	
		SUB UNITS											SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	LFT	LFT	SYS	SYS	SYS			TONS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	
		PAY QUANTITIES											20	33	86	26	413	495	479	664	4484	395	3720	670	427	853	354			187	501	7538	2493	11422	36	80	116	90	
		PAY UNITS											TON	TON	TON	CYD	TON	TON	TON	TON	SYS	SYS	LFT	LFT	CYD	CYD	TON			TON	TON	SYS	SYS	SYS	SYS	SYS	SYS	TON	
		MERGED QUANTITIES												53	86	26			479	1159	4484	395	3720	670		1280	767			187	501	7538	2493	11422	36	80	116	90	
		PAY UNITS												TON	TON	CYD			TON	TON	SYS	SYS	LFT	LFT		CYD	TON			TON	TON	SYS	SYS	SYS	SYS	SYS	SYS	TON	

c:\proj\pcf5\0030\dgn\Tables\030P001.dgn

PVMT-1 3/22/2011 3:54:05 AM

STAGE 3 PLANS FOR REVIEW ONLY

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: BR DRAWN: SI

CHECKED: AR CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

PAVEMENT QUANTITIES AND APPROACH TABLE

HORIZONTAL SCALE	BRIDGE FILE
	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	28 of 54
CONTRACT	PROJECT
R-33668	0900213

UNDERDRAIN TABLE

	Underdrain Pipe Limits	Type 4 Pipe 4" LFT	Type 4 Pipe 6" LFT	Geotextile for Underdrains SYS	Aggregate for Underdrains CYS	Special Grade %	Flow Line Elevation @ Underdrain Pipe Limit	Outlet Pipe Required (Y/N)	Connect Underdrain Pipe to Structure No. ___	Structure Invert Elevation	Remarks
West Leg, North Side	16+00 L						792.78				
	17+55 L		153	128	5.0	N/A	788.20	N	42	787.00	
	17+60 L						788.10				
	18+10 L		48	40	1.6	N/A	785.90	N	43	784.70	
	18+15 L						785.70				
	18+90 L		75	45	2.4	N/A	783.00	N	44	782.20	
	18+95 L						782.90				
	19+43 L		48	27	1.6	NA	781.80	N	45	781.10	
West Leg, South Side	16+00 R						792.59				
	17+50 R		148	123	4.8	NA	788.10	N	21	787.30	
	17+55 R						787.90				
	18+50 R		95	73	3.1	NA	783.90	N	22	783.20	
	18+55 R						783.70				
	19+03 R		56	31	1.8	2.67	782.20	N	23	782.10	
	19+08 R						782.10				
	59+12 "B" L		32	18	1.0	NA	781.70	N	24	781.00	
S Leg, W Side	57+50 L						778.70	N	26	777.70	
	58+50 L		95	53	3.1	NA	780.80				
	58+55 L						780.90	N	25	779.90	
	59+07 L		53	29	1.7	NA	781.60				
S Leg, E Side	57+75 R						779.00	N	27	778.80	
	58+40 R		65	36	2.1	NA	780.40				
	58+45 R						780.50	N	28	779.60	Peaks in middle, outlet at each end of run
	21+09 R "A"		109	61	3.5	NA	780.30	N	35	779.80	
E Leg, S Side	21+14 R						780.2				
	22+00 R		87	48	2.8	NA	778.3	N	36	763.20	
	22+05 R						778.2				
	22+89 R		87	48	2.8	NA	775.1	N	37	774.20	
E Leg, North Side	21+18 L						780.5				
	21+90 L		95	53	3.1	NA	777.8	N	50	763.80	Along north edge of WB Entry lane
	21+18 L						779.5				
	21+90 L		72	40	2.3	NA	777.8	N	50	763.80	Along north edge of WB to NB bypass lane
	21+95 L						777.6				
	22+89 L		94	52	3.1	NA	774.9	N	38	774.40	
North Leg, East Side	21+13 L						779.7	N	48	765.40	Peaks in middle, outlet at each end of run
	61+80 R "B"		204	133	6.6	NA	780.1	N	83	773.90	
	61+85 R						779.9				
	63+30 R		145	121	4.7	NA	778.1	N	82	775.50	
	63+35 R						778.0				
	63+60 R		22	18	0.7	NA	777.9	N	81	775.90	
	63+66 R						777.6	N	79	776.10	
	63+85 R		17	14	0.6	NA	777.9				
	63+90 R						778.0	N	78	776.60	
	64+95 R		102	85	3.3	NA	779.2				
	65+00 R						779.3	N	77	778.40	
	65+50 R		48	40	1.6	NA	780.1				

UNDERDRAIN TABLE

	Underdrain Pipe Limits	Type 4 Pipe 4" LFT	Type 4 Pipe 6" LFT	Geotextile for Underdrains SYS	Aggregate for Underdrains CYS	Special Grade %	Flow Line Elevation @ Underdrain Pipe Limit	Outlet Pipe Required (Y/N)	Connect Underdrain Pipe to Structure No. ___	Structure Invert Elevation	Remarks
North Leg, West Side	60+40 L						781.7				
	60+62 L		26	14	0.8	NA	781.2	N	51	780.60	
	60+67 L						781.1				
	61+10 L		44	24	1.4	NA	780.5	N	52	779.60	
	61+15 L						780.4				
	61+80 L		74	62	2.4	NA	780.0	N	53	779.20	
	61+85 L						779.9				
	62+70 L		83	69	2.7	NA	779.0	N	54	777.30	
	62+75 L						778.9				
	63+30 L		53	44	1.7	NA	778.0	N	55	776.60	
	63+35 L						777.9				
	63+60 L		23	19	0.7	NA	777.8	N	57	776.20	
	63+66 L						777.8	N	58	776.40	
	64+10 L		43	36	1.4	NA	778.5				
	64+15 L						778.6	N	59	777.60	
	65+15 L		98	82	3.2	NA	779.5				
	65+20						779.6	N	61	778.75	
	65+50		28	23	0.9	NA	780.1				
Roundabout	92+00 +/-						782.2				
	92+68 +/-		95	53	3.1	NA	781.7	N	24	781.00	Around RAB, west side, along west splitter island
	92+90 +/-						781.6				
	58+45 R "B"		70	39	2.3	NA	780.5	N	28	779.60	Around RAB, south side, along south splitter island
	90+85						781.5				
	21+09 R "A"		70	39	2.3	NA	780.3	N	35	779.80	Around RAB, east side, along east splitter to southeast
	91+70						782.1				
	21+05 L "A"		130	72	4.2	NA	780.7	N	47	778.30	Around RAB, north side, along north splitter to east
	IN CENTER		560	371	101.0	NA	Varies	N	35	779.80	See center Island Landscaping Detail
			LFT	SYS	CYS						
	TOTALS:		3347	2264	192						

c:\pro_tects\0030\dgn\Tables\030ttl01.dgn

UNDRD-1 3/22/2011 3:54:11 AM

STAGE 3 PLANS FOR REVIEW ONLY

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: BR DRAWN: SI

CHECKED: AR CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

UNDERDRAIN TABLE

HORIZONTAL SCALE	BRIDGE FILE
	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	29 of 54
CONTRACT	PROJECT
R-33668	0900213

STRUCTURE DATA TABLE

STRUCTURE NUMBER	LOCATION: STATION	LEFT	RIGHT	CROSS	SIZE	PIPE TYPE	MANHOLE, CATCH BASIN, INLET, OR SPECIALTY STRUCTURE	LENGTH	SLOPE	COVER	FLOWLINE: UP STREAM	DOWN STREAM	APPROX. CASTING EL.	SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURAL BACKFILL TYPE 2	CLASS A CONC. AS FLOWABLE BACKFILL (STRUC BACKFILL TYPE 5)	HMA FOR PATCHING, TYPE B	CONCRETE, CLASS A, FOR COLLARS AND ANCHORS	REVETMENT RIPRAP	GEOTEXTILE	SAFETY METAL END SECTION	PIPE END SECTIONS	CONNECT TO STR.	REMARKS
					IN			FT	%	FT	ELEV.	ELEV.	ELEV.	YRS				CYS	CYS	TON	CYS	TON	SYS	EACH	EACH		
11	12+85	X			18	2	MANHOLE C-10	16	0.44	1.0	783.92	783.85	787.3	75	NON	4.9	2	0.9				12	22		1 - 18"	Ditch Outlet	
12	12+94	X			12	2	INLET M-10	4	2.50	1.0	784.60	784.50	787.5	75	NON	4.9	1	0.8								11	
13	13+75	X			12	2	INLET J-10	78	0.55	1.6	785.13	784.70	789.1	75	NON	4.9	1	21.0								12	
14	12+89		X		15	2	MANHOLE C-10	22	0.55	1.1	784.14	784.02	787.4	75	NON	4.9	1	1.9	3.4							11	
16	12+89		X		12	2	INLET E-7	12	0.50	1.0	784.30	784.24	785.7	75	NON	4.9	2	0.4								14	
17	12+99		X		12	2	INLET M-10	5	1.20	1.2	784.30	784.24	787.5	75	NON	4.9	1	1.1								14	
18	13+58		X		12	2	MANHOLE C-10	56	0.71	1.7	784.80	784.40	788.7	75	NON	4.9	1	15.8								17	
19	13+67		X		12	2	INLET E-7	14	0.71	1.0	785.00	784.90	786.5	75	NON	4.9	1	2.8								18	
21	17+50		X		12	2	INLET J-10	98	4.08	1.0	787.30	783.30	790.2	75	NON	4.9	1	19.3								22	
22	18+50		X		12	2	INLET M-10	58	1.55	1.6	783.20	782.30	786.4	75	NON	4.9	1	15.6								44	
23	19+03		X		12	2	INLET J-10	40	2.50	0.8	782.10	781.10	784.5	75	NON	4.9	1	6.9								24	
24	59+12	X			12	2	INLET M-10	56	1.79	1.2	781.00	780.00	784.2	75	NON	4.9	1	12.4								25	
25	58+55	X			12	2	INLET M-10	97	2.16	1.5	779.90	777.80	783.4	75	NON	4.9	1	24.8								26	
26	57+50	X			12	2	MANHOLE C-10	93	2.15	1.5	777.70	775.70	781.2	75	NON	4.9	1	23.8								29	
27	57+75		X		12	2	MANHOLE C-10	43	2.33	1.0	778.80	777.80	781.3	75	NON	4.9	1	5.6	2.9							26	
28	58+45		X		12	2	INLET J-10	70	0.43	1.4	779.60	779.30	783.0	75	NON	4.9	1	17.2								27	Water Grade Pipe Req'd - Proximity to Watermain
29	56+50	X			15	2	INLET M-10	94	1.06	1.4	775.60	774.60	779.2	75	NON	4.9	1	26.6								32	
31	56+05	X			-	2	Remove Existing Inlet & Pipe		NA	NA	NA	NA	NA	75	NON	4.9	1	0.0								N/A	Remove Existing Pipe
32	55+50	X			15	2	INLET M-10	25	1.20	1.4	774.50	774.20	778.1	75	NON	4.9	1	7.1								33	
33	55+21.5	X			24	2	MANHOLE D-10	10	NA	1.7	773.30	NA	778.0	75	NON	4.9	1	3.2	1.4		1.0					Exist Pipe	Approx Invert 773.3
35	21+09		X		12	2	INLET J-10	92	2.39	3.2	779.80	777.60	782.8	75	NON	4.9	1	43.5								36	
36	22+00		X		33	2	MANHOLE E-10	70	1.00	7.5	763.20	762.50	780.8	75	NON	4.9	1	149.6				23	38		1 - 33"	Ditch Outlet	
37	22+89		X		12	2	INLET M-10	93	0.54	3.2	774.20	773.70	777.6	75	NON	4.9	1	43.9								36	
38	22+89	X			12	2	INLET J-10	25	0.40	1.1	774.40	774.30	777.4	75	NON	4.9	1	5.3								37	
39	22+95	X			12	1	CULVERT PIPE	25	2.40	2.0	773.10	772.50	NA	75	NON	4.9	1	9.0							2 - 12"	NA	
41	17+20	X			12	2	INLET J-10	36	3.89	2.5	788.50	787.10	792.3	75	NON	4.9	1	18.0								42	
42	17+55	X			12	2	INLET M-10	52	4.23	2.4	787.00	784.80	790.3	75	NON	4.9	1	19.2								43	
43	18+10	X			12	2	INLET M-10	75	3.20	2.5	784.70	782.30	788.0	75	NON	4.9	1	28.5								44	
44	18+90	X			12	2	MANHOLE C-10	52	1.92	1.8	782.20	781.20	785.5	75	NON	4.9	1	15.3								45	
45	19+43	X		X	12	2	MANHOLE C-10	84	1.55	1.8	781.10	779.80	784.3	75	NON	4.9	1	22.6								46	Water Grade Pipe Req'd - Proximity to Watermain
46	20+31		X		24	2	MANHOLE E-4	75	2.40	10.6	772.20	770.40	784.9	75	NON	4.9	1	187.5								48	
47	21+05	X			12	2	INLET J-10	35	0.57	3.0	778.30	778.10	783.2	75	NON	4.9	1	15.6								48	
48	21+13	X			24	2	MANHOLE D-10	72	2.08	14.6	765.40	763.90	782.2	75	NON	4.9	1	237.6								50	
49	60+19	X			24	2	PIPE with SMES	31	0.65	7.0	764.10	763.90	NA	75	NON	4.9	2	2.2				12	22		1 - 24"	50	
50	21+90.5	X		X	30	2	MANHOLE E-10	48	1.04	13.3	763.80	763.30	780.3	75	NON	4.9	1	164.4								36	
51	60+62	X			12	2	INLET J-10	48	1.87	1.1	780.60	779.70	783.7	75	NON	4.9	1	10.1								52	
52	61+10	X			12	2	INLET M-10	67	0.45	1.4	779.60	779.30	783.0	75	NON	4.9	1	16.4								53	
53	61+80	X			12	2	INLET M-10	87	2.07	1.4	779.20	777.40	782.6	75	NON	4.9	1	21.3								54	
54	62+70	X			12	2	INLET M-10	57	1.05	1.8	777.30	776.70	781.1	75	NON	4.9	1	16.7								55	
55	63+30	X			12	2	INLET M-10	27	1.11	1.5	776.60	776.30	780.1	75	NON	4.9	1	6.3								57	Water Grade Pipe Req'd - Proximity to Watermain
56	63+60	X			15	2	PIPE with SMES	27	1.11	1.5	776.80	776.50	NA	75	NON	4.9	1	8.0						1 - 15"		60	
57	63+60	X		X	18	2	MANHOLE D-10	23	0.87	1.4	776.20	776.00	780.0	75	NON	4.9	1	7.0								81	Water Grade Pipe Req'd - Proximity to Watermain
58	63+66	X			15	2	INLET M-10	1	10.00	1.4	776.40	776.30	780.0	75	NON	4.9	1	0.3								57	Water Grade Pipe Req'd - Proximity to Watermain
59	64+15	X			15	2	INLET M-10	46	2.39	1.0	777.60	776.50	780.7	75	NON	4.9	1	9.8								58	Water Grade Pipe Req'd - Proximity to Watermain
60	63+60	X			15	2	INLET E-7	4	2.50	1.0	776.40	776.30	779.5	75	NON	4.9	2	0.9								57	
61	65+20	X			15	2	INLET M-10	102	1.03	1.0	778.75	777.70	781.7	75	NON	4.9	1	21.6								59	Water Grade Pipe Req'd - Proximity to Watermain
62	65+80	X			15	2	INLET M-10	57	0.96	1.0	779.40	778.85	782.6	75	NON	4.9	1	7.8	4.3							61	Water Grade Pipe Req'd - Proximity to Watermain
63	66+65	X			12	2	INLET M-10	83	2.17	1.1	781.30	779.50	784.4	75	NON	4.9	1	9.2	6.6							62	Water Grade Pipe Req'd - Proximity to Watermain
64	67+40	X			12	2	INLET M-10	72	3.89	1.2	784.20	781.40	787.4	75	NON	4.9	1	8.0	7.9							63	
65	68+00	X			12	2	INLET M-10	57	5.61	1.1	787.50	784.30	790.6	75	NON	4.9	1	6.3	5.7							64	
66	69+37.5	X			12	2	INLET J-10	134	3.66	3.3	792.50	787.60	797.8	75	NON	4.9	1	14.9	50.1							65	
71	69+36.7		X		12	2	INLET J-10	61	3.28	1.7	794.00	792.00	797.7	75	NON	4.9	1	6.7	9.0							72	Water Grade Pipe Req'd - Proximity to Watermain
72	68+75		X		12	2	INLET M-10	70	6.57	1.1	791.90	787.30	795.0	75	NON	4.9	1	7.8	5.5							74	Water Grade Pipe Req'd - Proximity to Watermain
73	68+10		X		15	2	PIPE with SMES	19	6.32	1.5	788.50	787.30	NA	75	NON	4.9	1	5.6				12	22	1 - 15"		74	
74	68+00		X		15	2	MANHOLE C-10	95	5.79	1.0	787.20	781.70	790.5	75	NON	4.9	1	13.3	7.8							75	Water Grade Pipe Req'd - Proximity to Watermain
75	67+00		X		18	2	INLET M-10	97	1.55	0.9	781.60	780.10	785.5	75	NON	4.9	1	13.9	8.9							76	High Strength / Water Grade Pipe Req'd - Shallow & Proximity to Water
76	66+00		X		18	2	INLET M-10	97	1.55	0.4	780.00	778.50	782.9	75	NON	4.9	1	9.7	8.9							77	High Strength / Water Grade Pipe Req'd - Shallow & Proximity to Water
77	65+00		X		18	2	INLET M-10	107	1.59	0.5	778.40	776.70	781.4	75	NON	4.9	1	10.8	9.8							78	High Strength / Water Grade Pipe Req'd - Shallow & Proximity to Water
78	63+90		X		18	2	INLET M-10	21	1.90	1.0	776.60	776.20	780.1	75	NON	4.9	1	5.2								79	Water Grade Pipe Req'd - Proximity to Watermain
79	63+66		X		18	2	INLET M-10	1	10.00	1.5	776.10	776.00	780.0	75	NON	4.9	1	0.3								81	Water Grade Pipe Req'd - Proximity to Watermain
81	63+60		X		24	2	MANHOLE E-10	23	1.30	1.3	775.90	775.60	780.0	75	NON	4.9	1	8.5								82	Water Grade Pipe Req'd - Proximity to Watermain
82	63+30		X		24	2	MANHOLE E-10	147	1.02	4.5	775.50	774.00	780.2	75	NON	4.9	1	137.4								83	Water Grade Pipe Req'd - Proximity to Watermain
83	61+80		X		24	2	MANHOLE E-10	151	1.06	8.5	773.90	772.30	782.6	75	NON	4.9	1	268.3								46	
WATERMAIN					24		DUCTILE IRON WATERMAIN	1402	Varies								1	*1212**	93.0								*See Watermain Backfill Detail, Watermain Backfill included in Cost of Watermain
WATERMAIN					8		DUCTILE IRON WATERMAIN	25	Varies								1	*15.7**	0.0								*See Watermain Backfill Detail, Watermain Backfill included in Cost of Watermain
WATERMAIN					6		DUCTILE IRON WATERMAIN	50	Varies								1	*20.4**	0.0								*See Watermain Backfill Detail, Watermain Backfill included in Cost of Watermain
																		CYS	CYS	TON	CYS	TON	SYS	EACH			
																	TOTALS:	1822	225	0	1.0	59	104	2-15" SMES, 1-18", 1-24", 2-12", 1-33"			

NOTES:
*1 - WATER GRADE PIPE AS NOTED IS REQUIRED DUE TO PROXIMITY TO WATER MAIN
*2 - HDPE REQUIRED BECAUSE CITY INSTALLED MANHOLE HAS HOLE PRECAST FOR HDPE PIPE.
*3 - CITY STANDARDS REQUIRE STRUCTURAL BACKFILL (B-BORROW) BE #11 OR #12 CRUSHED STONE BEDDING BENEATH PIPES IS REQUIRED. 4" THICK IF ON SOIL, 6" THICK IF ON ROCK. 4" OF CRUSHED STONE ABOVE PIPE ALSO REQUIRED.
*4 - FOR PIPES WITH FLOWABLE FILL, PLACE IT ABOVE CRUSHED STONE PER TYPICAL DETAIL.

STAGE 3 PLANS FOR REVIEW ONLY

RECOMMENDED FOR APPROVAL ______ DESIGN ENGINEER ______ DATE

DESIGNED: BR DRAWN: SI
CHECKED: AR CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

STRUCTURE DATA TABLE

HORIZONTAL SCALE	BRIDGE FILE
	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	30 of 54
CONTRACT	PROJECT
R-33668	0900213

c:\projects\0030\dgn\Tables\0312HD01.dgn 3:54:14 AM SDT-1 3/22/2011

STORM SEWERS - STRUCTURE NUMBER

		11	12	13	14	16	17	18	19	21	22	23	24	25	26	27	28	29	31	32	33	35	36
PIPE TYPE / SHAPE		2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR
SMOOTH PIPE SIZE		18	12	12	15	12	12	12	12	12	12	12	12	12	12	12	12	15	N/A	15	24	12	33
CORRUGATED PIPE SIZE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RCP/RCHEP (S)	CLASS	II	III	II	II	III	II	II	III	III	II	III	II	II	II	III	Not Allowed	II		II	II	II	II
	$D_{0.01}$ RATING	1000	1500	1000	1000	1500	1250	1000	1500	1500	1000	1500	1250	1000	1000	1500	Not Allowed	1000		1000	1000	1000	1000
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)				OK				OK			OK			OK	OK		Not Allowed	OK		OK	OK	OK	OK
CORRUGATED PE PIPE, TYPE S (S)*																	Not Allowed					OK	
RIBBED PE PIPE (S)*																	Not Allowed						OK
SMOOTH WALL PE PIPE (S)* / MAXIMUM DR																	Not Allowed					OK / 26	
PROFILE WALL PVC PIPE (S)																	Not Allowed					OK	
SMOOTH WALL PVC PIPE (S)*																	Not Allowed					OK	
PVC - WATER GRADE - AWWA C900 (8"-12")																							
PVC - WATER GRADE - AWWA C905 (14"-24")																							
DUCTILE IRON PIPE - AWWA C151 w/ PROTECTO 401 LINING																	REQD**						

STORM SEWERS - STRUCTURE NUMBER

		37	38	39	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59
PIPE TYPE / SHAPE		2 / CIR	2 / CIR	1 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR
SMOOTH PIPE SIZE		12	12	12	12	12	12	12	12	24	12	24	24	30	12	12	12	12	12	15	18	15	15
CORRUGATED PIPE SIZE		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RCP/RCHEP (S)	CLASS	II	II	II	II	II	II	II	Not Allowed	II	II	II	II	II	II	II	II	II	Not Allowed	II	Not Allowed	Not Allowed	Not Allowed
	$D_{0.01}$ RATING	1000	1250	1250	1000	1000	1000	1000	Not Allowed	1000	1000	1250	1000	1250	1250	1000	1000	1000	Not Allowed	1000	Not Allowed	Not Allowed	Not Allowed
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)		OK			OK	OK	OK	OK	Not Allowed	OK	OK		OK			OK	OK	OK	Not Allowed	OK	Not Allowed	Not Allowed	Not Allowed
CORRUGATED PE PIPE, TYPE S (S)*		OK			OK	OK	OK		Not Allowed	OK	OK		OK						Not Allowed		Not Allowed	Not Allowed	Not Allowed
RIBBED PE PIPE (S)*									Not Allowed	OK		OK	OK	OK					Not Allowed		Not Allowed	Not Allowed	Not Allowed
SMOOTH WALL PE PIPE (S)* / MAXIMUM DR		OK / 26			OK / 26	OK / 26	OK / 26		Not Allowed	OK / 26	OK / 26	OK / 26	OK / 26	OK / 26					Not Allowed		Not Allowed	Not Allowed	Not Allowed
PROFILE WALL PVC PIPE (S)		OK			OK	OK	OK		Not Allowed	OK	OK	OK	OK	OK					Not Allowed		Not Allowed	Not Allowed	Not Allowed
SMOOTH WALL PVC PIPE (S)*		OK			OK	OK	OK		Not Allowed	OK	OK	OK	OK						Not Allowed		Not Allowed	Not Allowed	Not Allowed
PVC - WATER GRADE - AWWA C900 (8"-12")																							
PVC - WATER GRADE - AWWA C905 (14"-24")																							
DUCTILE IRON PIPE - AWWA C151 w/ PROTECTO 401 LINING									REQD**										REQD**		REQD**	REQD**	REQD**

STORM SEWERS - STRUCTURE NUMBER

		60	61	62	63	64	65	66	71	72	73	74	75	76	77	78	79	81	82	83			
PIPE TYPE / SHAPE		2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR			
SMOOTH PIPE SIZE		15	15	15	12	12	12	12	12	12	15	15	18	18	18	18	18	24	24	24			
CORRUGATED PIPE SIZE		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
RCP/RCHEP (S)	CLASS	II	Not Allowed	Not Allowed	Not Allowed	III	III	III	Not Allowed	Not Allowed	III	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	II			
	$D_{0.01}$ RATING	1250	Not Allowed	Not Allowed	Not Allowed	1500	1500	1500	Not Allowed	Not Allowed	1500	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	1000			
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)			Not Allowed	Not Allowed	Not Allowed			OK	Not Allowed	Not Allowed	OK	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	OK			
CORRUGATED PE PIPE, TYPE S (S)*			Not Allowed	Not Allowed	Not Allowed			OK	Not Allowed	Not Allowed		Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	OK			
RIBBED PE PIPE (S)*			Not Allowed	Not Allowed	Not Allowed				Not Allowed	Not Allowed		Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	OK			
SMOOTH WALL PE PIPE (S)* / MAXIMUM DR			Not Allowed	Not Allowed	Not Allowed			OK / 26	Not Allowed	Not Allowed		Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	OK / 26			
PROFILE WALL PVC PIPE (S)			Not Allowed	Not Allowed	Not Allowed			OK	Not Allowed	Not Allowed		Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	OK			
SMOOTH WALL PVC PIPE (S)*			Not Allowed	Not Allowed	Not Allowed			OK	Not Allowed	Not Allowed		Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	OK			
PVC - WATER GRADE - AWWA C900 (8"-12")																							
PVC - WATER GRADE - AWWA C905 (14"-24")																							
DUCTILE IRON PIPE - AWWA C151 w/ PROTECTO 401 LINING			REQD**	REQD**	REQD**				REQD**	REQD**		REQD**	REQD**	REQD**	REQD**	REQD**	REQD**	REQD**	REQD**				

NOTES:

** - Ductile Iron Pipe Required due to proximity to Watermain and Shallow Installation

c:\projects\0030\dgnTables\030H001.dgn

SDT_2
3/22/2011 3:54:17 AM

NOTES:
*1 - WATER GRADE PIPE AS NOTED IS REQUIRED DUE TO PROXIMITY TO WATER MAIN
*2 - HDPE REQUIRED BECAUSE CITY INSTALLED MANHOLE HAS HOLE PRECAST FOR HDPE PIPE.
*3 - CITY STANDARDS REQUIRE STRUCTURAL BACKFILL (B-BORROW) BE #1 OR #12 CRUSHED STONE BEDDING BENEATH PIPES IS REQUIRED. 4" THICK IF ON SOIL, 6" THICK IF ON ROCK. 4" OF CRUSHED STONE ABOVE PIPE ALSO REQUIRED.
*4 - FOR PIPES WITH FLOWABLE FILL, PLACE IT ABOVE CRUSHED STONE PER TYPICAL DETAIL.

STAGE 3 PLANS FOR REVIEW ONLY

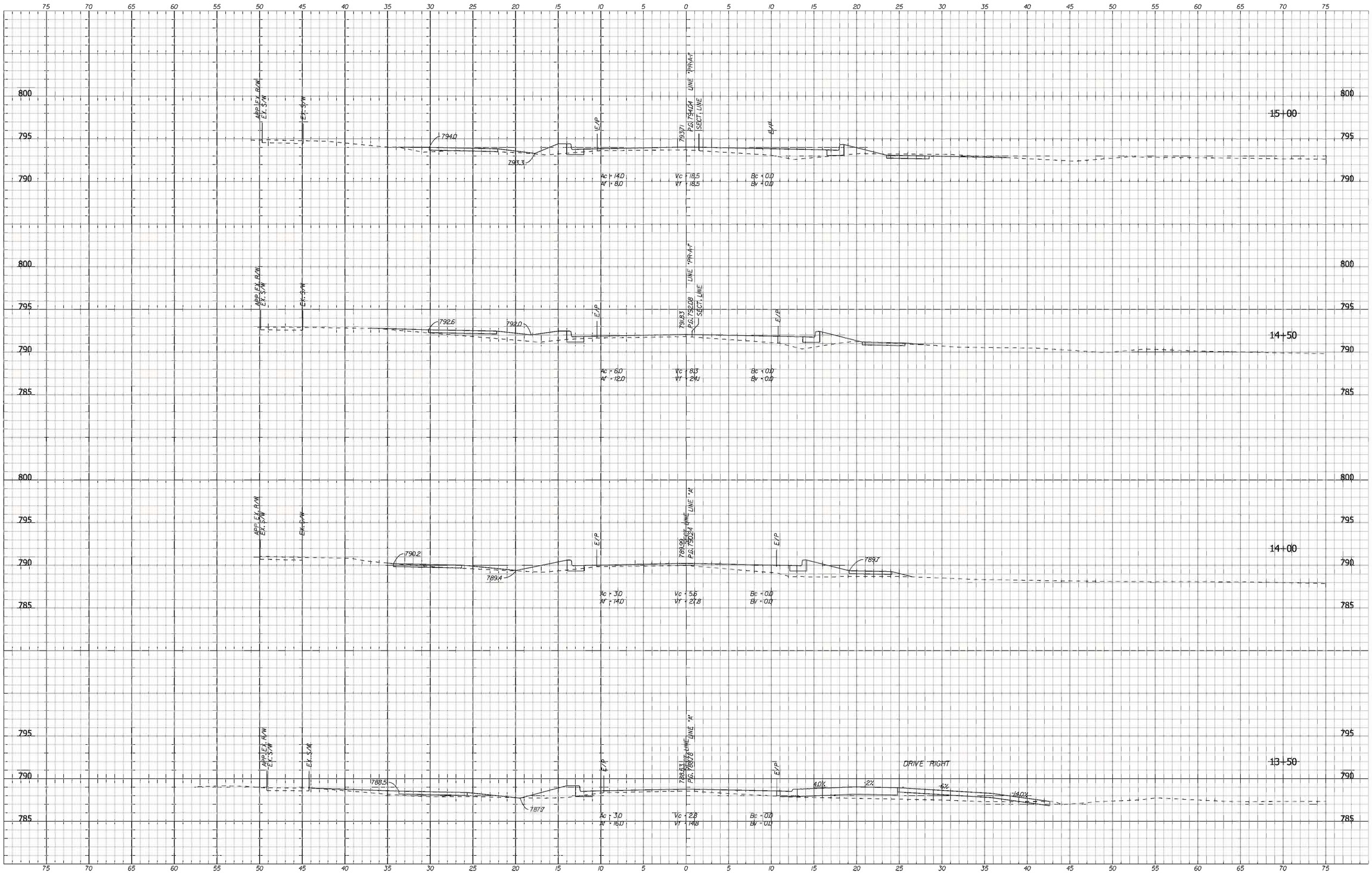
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: BR | DRAWN: SI
CHECKED: AR | CHECKED: BR

INDIANA
DEPARTMENT OF TRANSPORTATION

PIPE MATERIALS SHEET

HORIZONTAL SCALE	BRIDGE FILE
	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	31 of 54
CONTRACT	PROJECT
R-33668	0900213



STORM SEWERS AND STRUCTURES ARE SHOWN AT THE NEAREST CROSS SECTION FOR INFORMATION ONLY.
SEE PLANS AND STRUCTURE DATA TABLES FOR ACTUAL LOCATIONS.

RECOMMENDED FOR APPROVAL _____ X/XX/10
DESIGN ENGINEER DATE

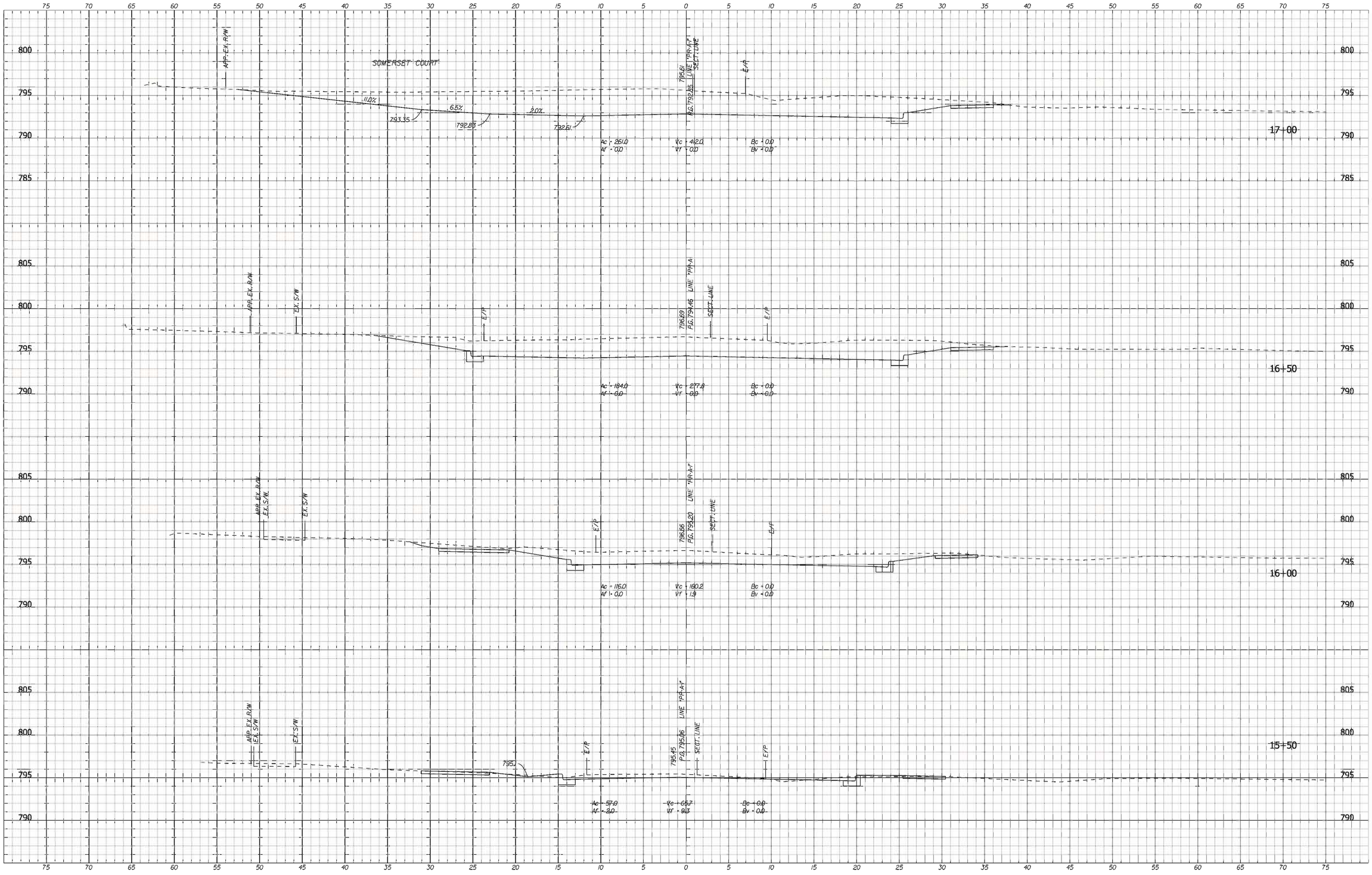
DESIGNED: BR DRAWN: SI
CHECKED: AR CHECKED: BR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A" WITH "PR-A-1" OR "PR-A-2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	32 of 54
CONTRACT	PROJECT
	0900213

c:\pro_facts\0030dgn\xs\XS-A_Sheet.dgn
XS_SHEET_XSA-1
3/22/2011 3:57:22 AM



STORM SEWERS AND STRUCTURES ARE SHOWN AT THE NEAREST CROSS SECTION FOR INFORMATION ONLY.
SEE PLANS AND STRUCTURE DATA TABLES FOR ACTUAL LOCATIONS.

RECOMMENDED FOR APPROVAL _____ X/XX/10
DESIGN ENGINEER DATE

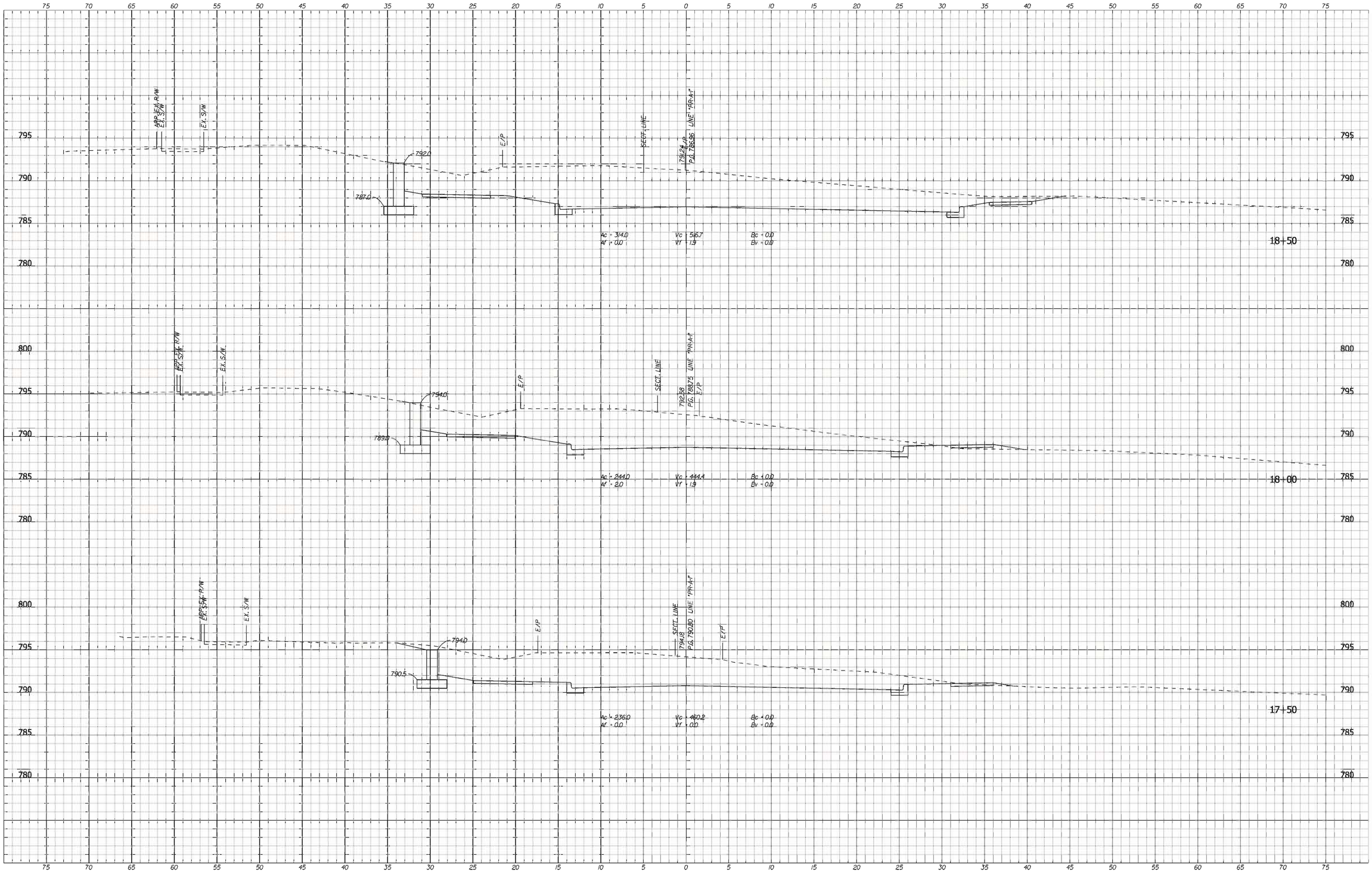
DESIGNED: BR | DRAWN: SI
CHECKED: AR | CHECKED: BR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A" WITH "PR-A-1" OR "PR-A-2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	33 of 54
CONTRACT	PROJECT
	0900213

c:\projects\0030\dgn\xs\XS-A_Sheet.dgn
XS_SHEET_XSA-2
3/22/2011 3:57:27 AM



STORM SEWERS AND STRUCTURES ARE SHOWN AT THE NEAREST CROSS SECTION FOR INFORMATION ONLY.
SEE PLANS AND STRUCTURE DATA TABLES FOR ACTUAL LOCATIONS.

RECOMMENDED FOR APPROVAL _____ X/XX/10
DESIGN ENGINEER DATE

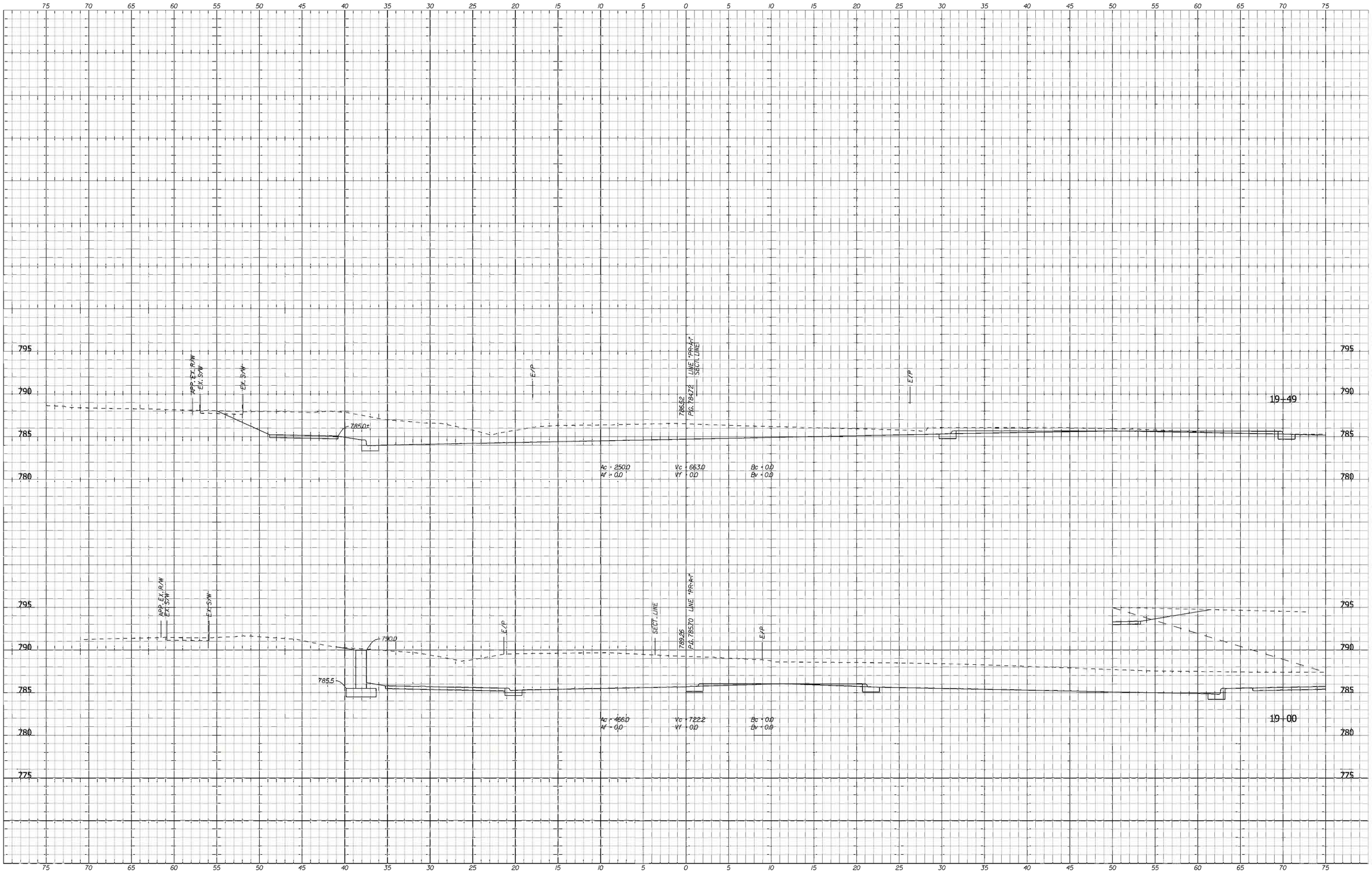
DESIGNED: BR | DRAWN: SI
CHECKED: AR | CHECKED: BR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A" WITH "PR-A-1" OR "PR-A-2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	34 of 54
CONTRACT	PROJECT
	0900213

c:\pro_tools\100330\dgn\xs\XS-A_Sheet.dgn
XS_SHEET_XSA-3
3/22/2011 3:57:33 AM



STORM SEWERS AND STRUCTURES ARE SHOWN AT THE NEAREST CROSS SECTION FOR INFORMATION ONLY.
SEE PLANS AND STRUCTURE DATA TABLES FOR ACTUAL LOCATIONS.

RECOMMENDED FOR APPROVAL _____ X/XX/10
DESIGN ENGINEER DATE

DESIGNED: BR DRAWN: SI
CHECKED: AR CHECKED: BR

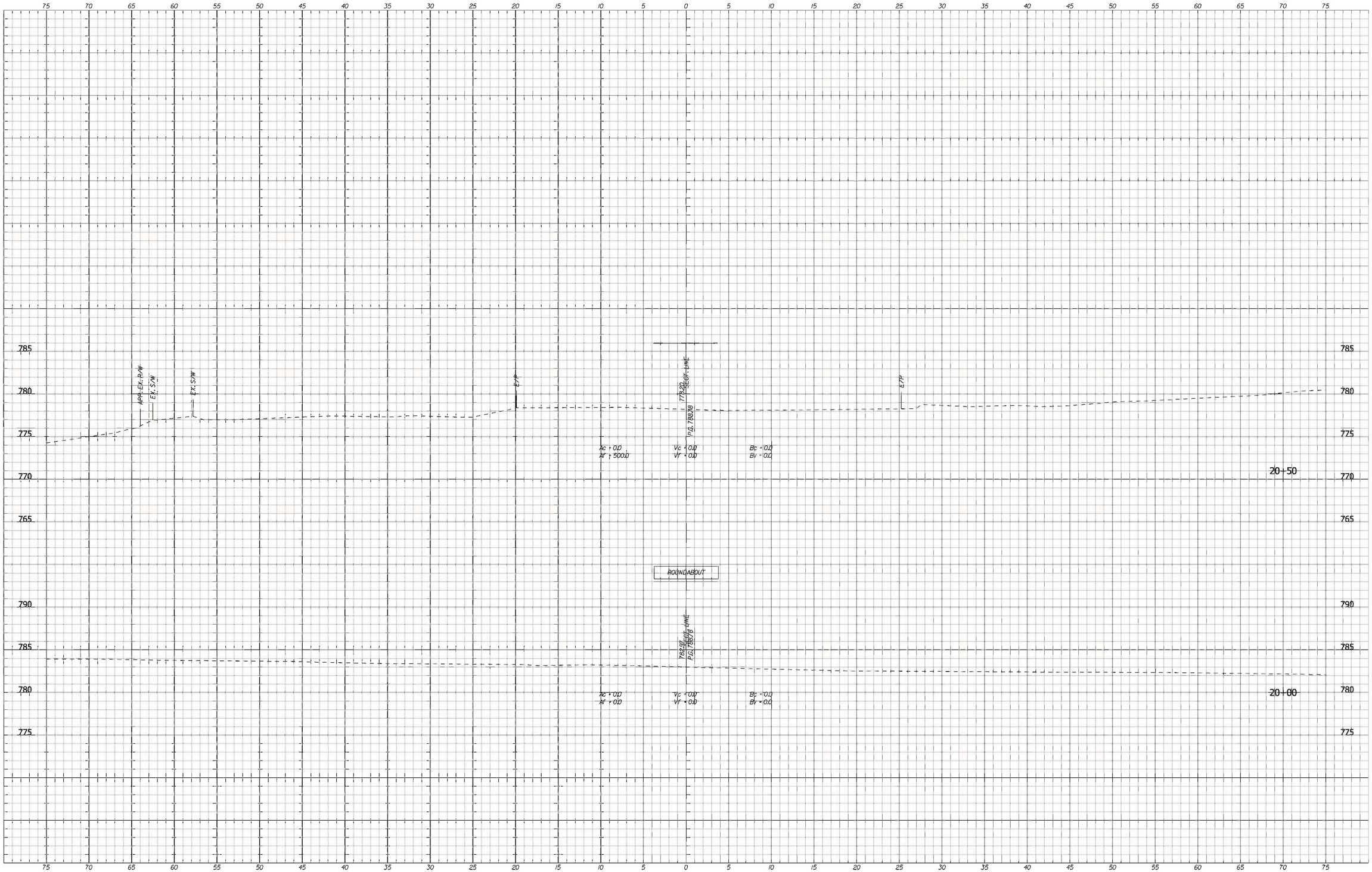
INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A" WITH "PR-A-1" OR "PR-A-2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	35 of 54
CONTRACT	PROJECT
	0900213

c:\projects\00030\dgn\xs\VS_A_Sheet.dgn

XS_SHEET_XS4-4
3/22/2011 3:57:38 AM



STORM SEWERS AND STRUCTURES ARE SHOWN AT THE NEAREST CROSS SECTION FOR INFORMATION ONLY.
SEE PLANS AND STRUCTURE DATA TABLES FOR ACTUAL LOCATIONS.

RECOMMENDED FOR APPROVAL _____ X/XX/10
DESIGN ENGINEER DATE

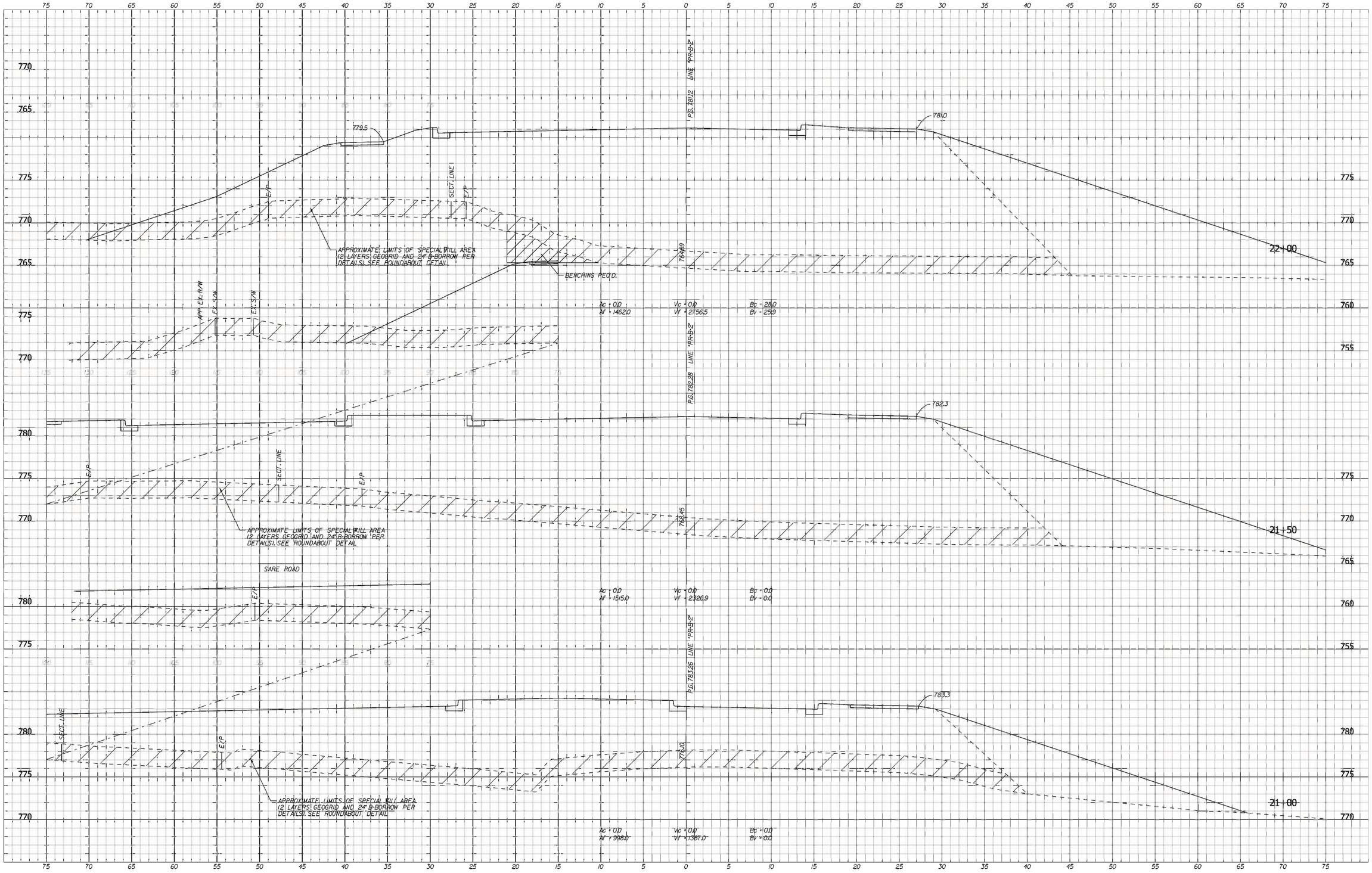
DESIGNED: BR DRAWN: SI
CHECKED: AR CHECKED: BR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A" WITH "PR-A-1" OR "PR-A-2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	36 of 54
CONTRACT	PROJECT
	0900213

c:\pw_temp\v0030\dgn\xs\XS-A_Sheet.dgn
XS_SHEET_XSA
3/22/2011 3:57:42 AM



STORM SEWERS AND STRUCTURES ARE SHOWN AT THE NEAREST CROSS SECTION FOR INFORMATION ONLY.
SEE PLANS AND STRUCTURE DATA TABLES FOR ACTUAL LOCATIONS.

RECOMMENDED FOR APPROVAL _____ X/XX/10
DESIGN ENGINEER DATE

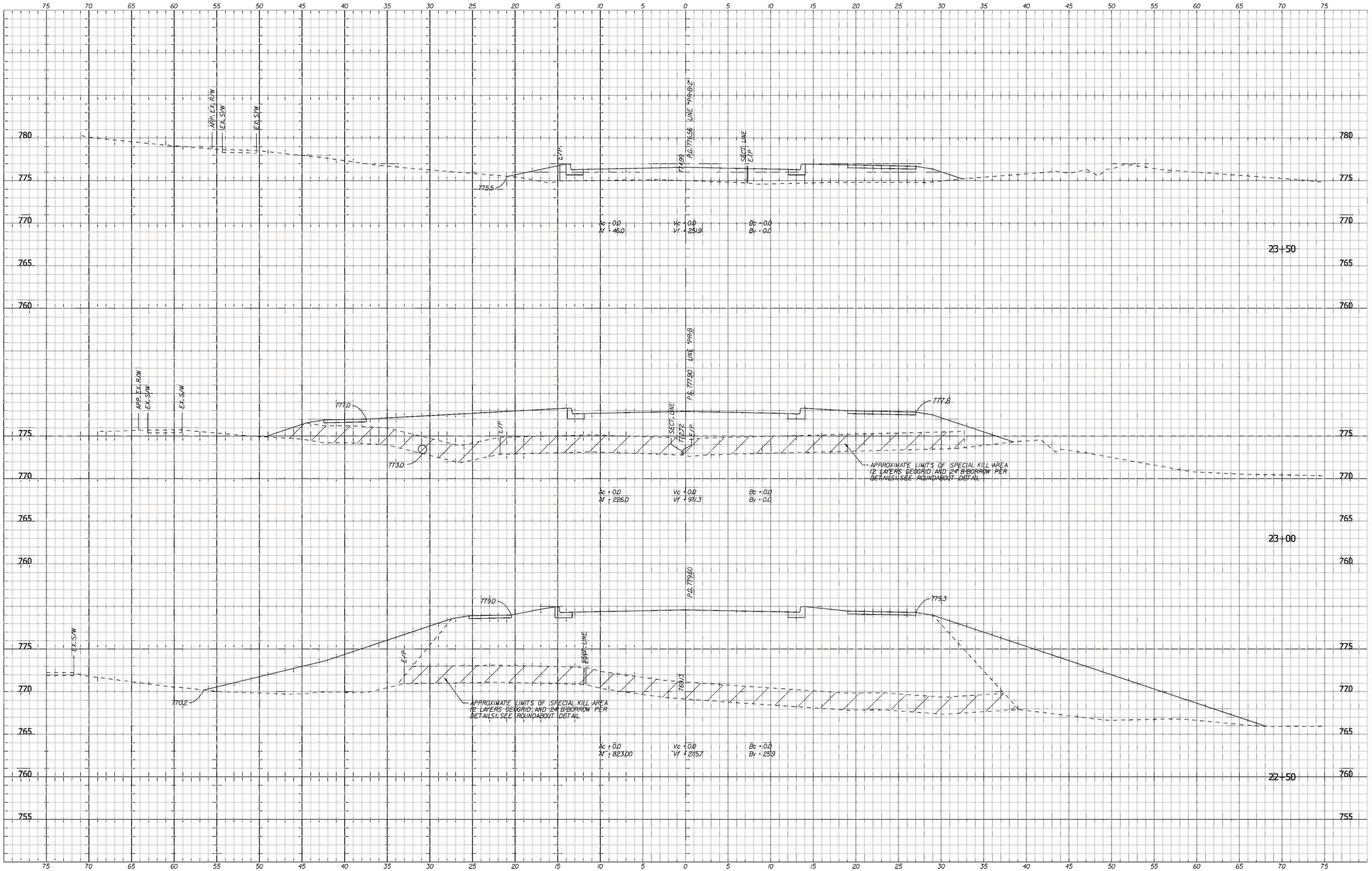
DESIGNED: BR DRAWN: SI
CHECKED: AR CHECKED: BR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A" WITH "PR-A-1" OR "PR-A-2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	37 of 54
CONTRACT	PROJECT
	0900213

c:\pw\Peds\V0030\dgn\XS-A_Sheet.dgn
XS_SHEET_XSA2-1
3/22/2011 3:57:46 AM



STORM SEWERS AND STRUCTURES ARE SHOWN AT THE NEAREST CROSS SECTION FOR INFORMATION ONLY.
SEE PLANS AND STRUCTURE DATA TABLES FOR ACTUAL LOCATIONS.

RECOMMENDED FOR APPROVAL _____ X/XX/10
DESIGN ENGINEER DATE

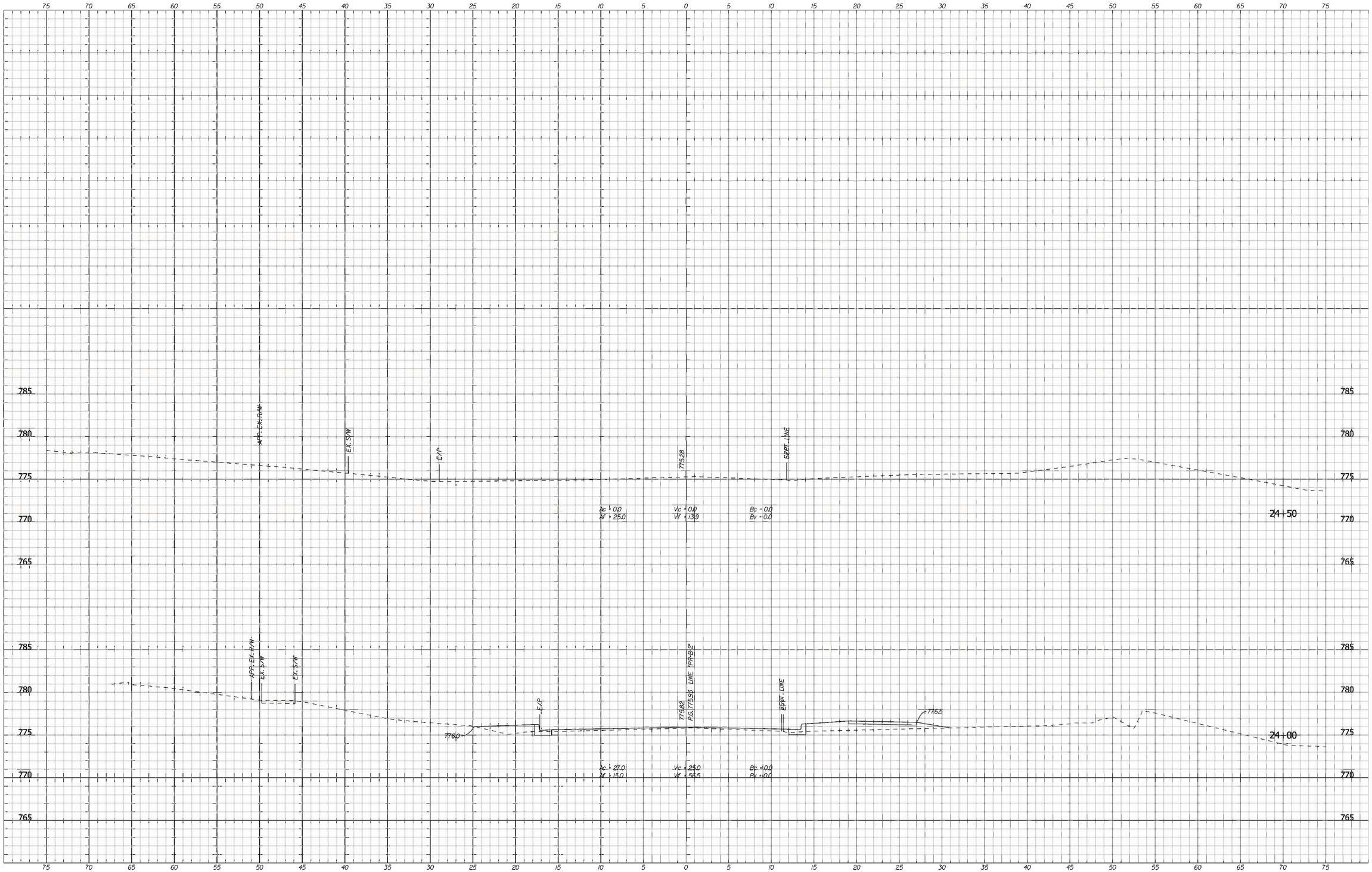
DESIGNED: BR | DRAWN: SI
CHECKED: AR | CHECKED: BR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A" WITH "PR-A-1" OR "PR-A-2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	38 of 54
CONTRACT	PROJECT
	0900213

c:\pw_temp\V0030\dgn\xs\XS-A_Sheet.dgn
XS_SHEET_XSA2-2
3/22/2011 3:57:52 AM



STORM SEWERS AND STRUCTURES ARE SHOWN AT THE NEAREST CROSS SECTION FOR INFORMATION ONLY.
SEE PLANS AND STRUCTURE DATA TABLES FOR ACTUAL LOCATIONS.

RECOMMENDED FOR APPROVAL _____ X/XX/10
DESIGN ENGINEER DATE

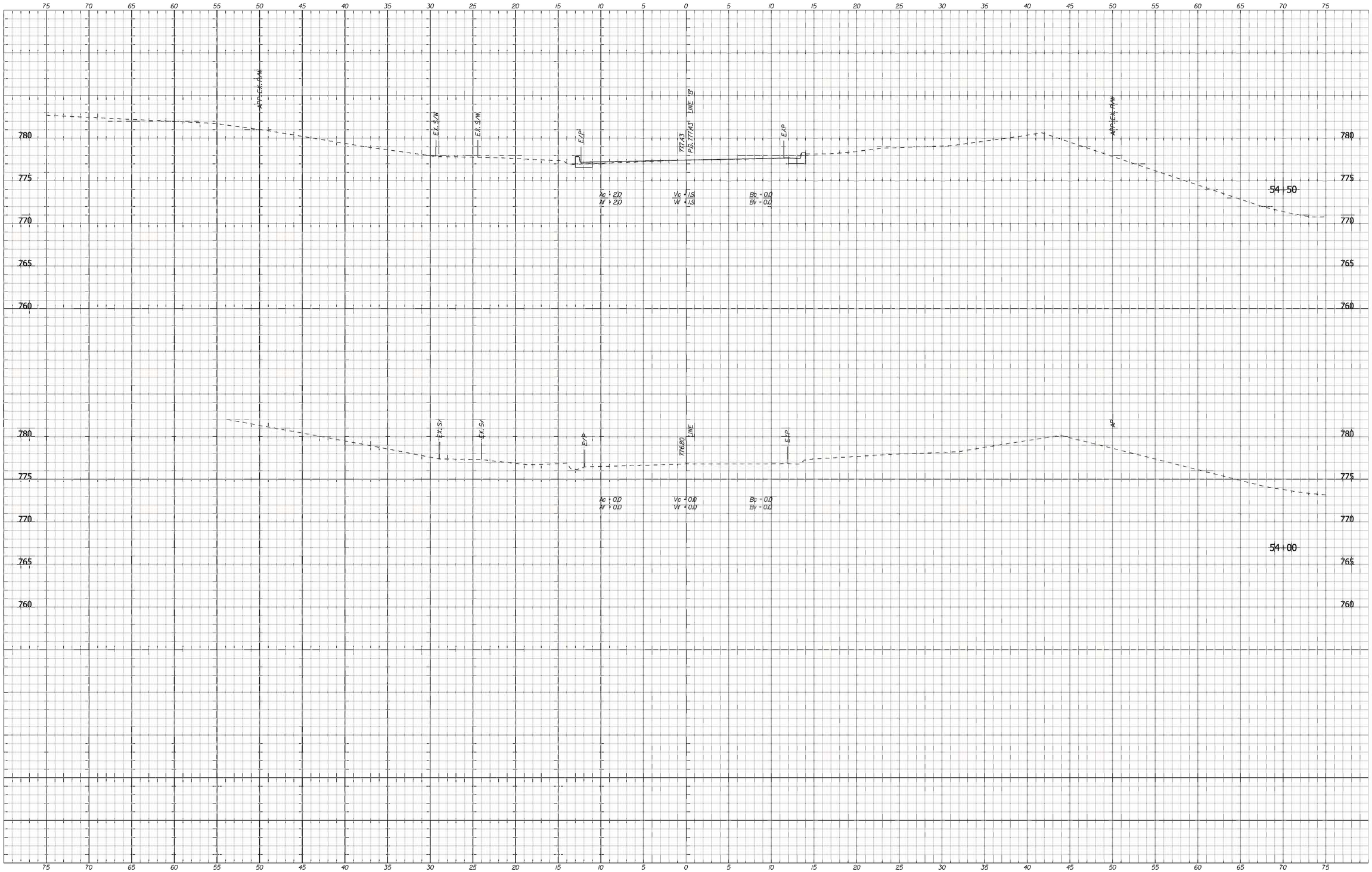
DESIGNED: BR | DRAWN: SI
CHECKED: AR | CHECKED: BR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A" WITH "PR-A-1" OR "PR-A-2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	39 of 54
CONTRACT	PROJECT
	0900213

c:\pro_tecis\00330\dgn\xs\XS-A_Sheet.dgn
XS_SHEET_XSA2-3
3/22/2011 3:57:57 AM



STORM SEWERS AND STRUCTURES ARE SHOWN AT THE NEAREST CROSS SECTION FOR INFORMATION ONLY.
SEE PLANS AND STRUCTURE DATA TABLES FOR ACTUAL LOCATIONS.

RECOMMENDED FOR APPROVAL _____ X/XX/10
DESIGN ENGINEER DATE

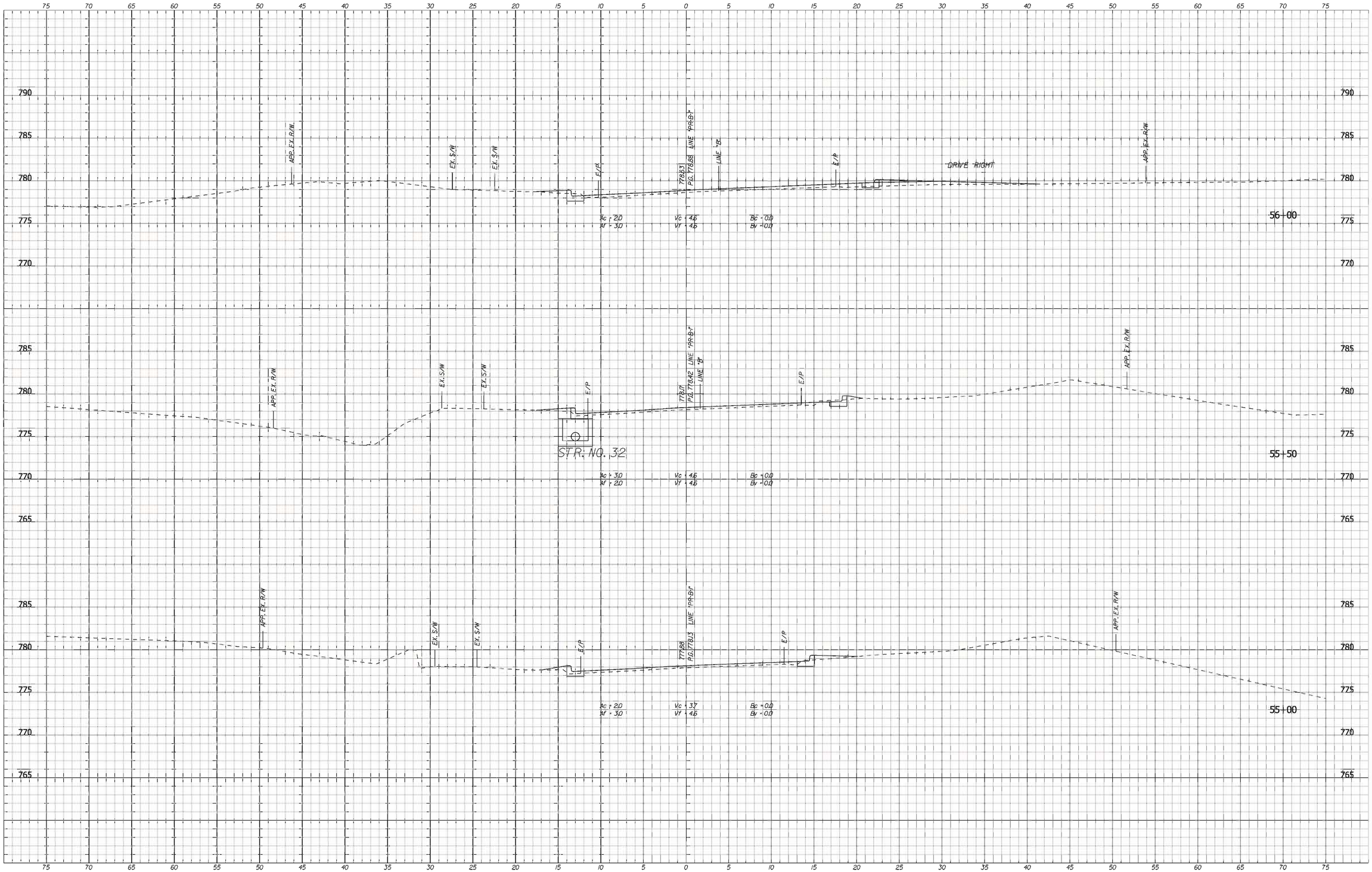
DESIGNED: BR DRAWN: SI
CHECKED: AR CHECKED: BR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "B" WITH "PR-B-1" OR "PR-B-2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	40 of 54
CONTRACT	PROJECT
	0900213

c:\pro_fedsrv\00330\dgn\xs\XS-B_Sheet.dgn
XS_SHEET.XSBI 3/22/2011 3:58:04 AM



STORM SEWERS AND STRUCTURES ARE SHOWN AT THE NEAREST CROSS SECTION FOR INFORMATION ONLY.
SEE PLANS AND STRUCTURE DATA TABLES FOR ACTUAL LOCATIONS.

RECOMMENDED FOR APPROVAL _____ X/XX/10
DESIGN ENGINEER DATE

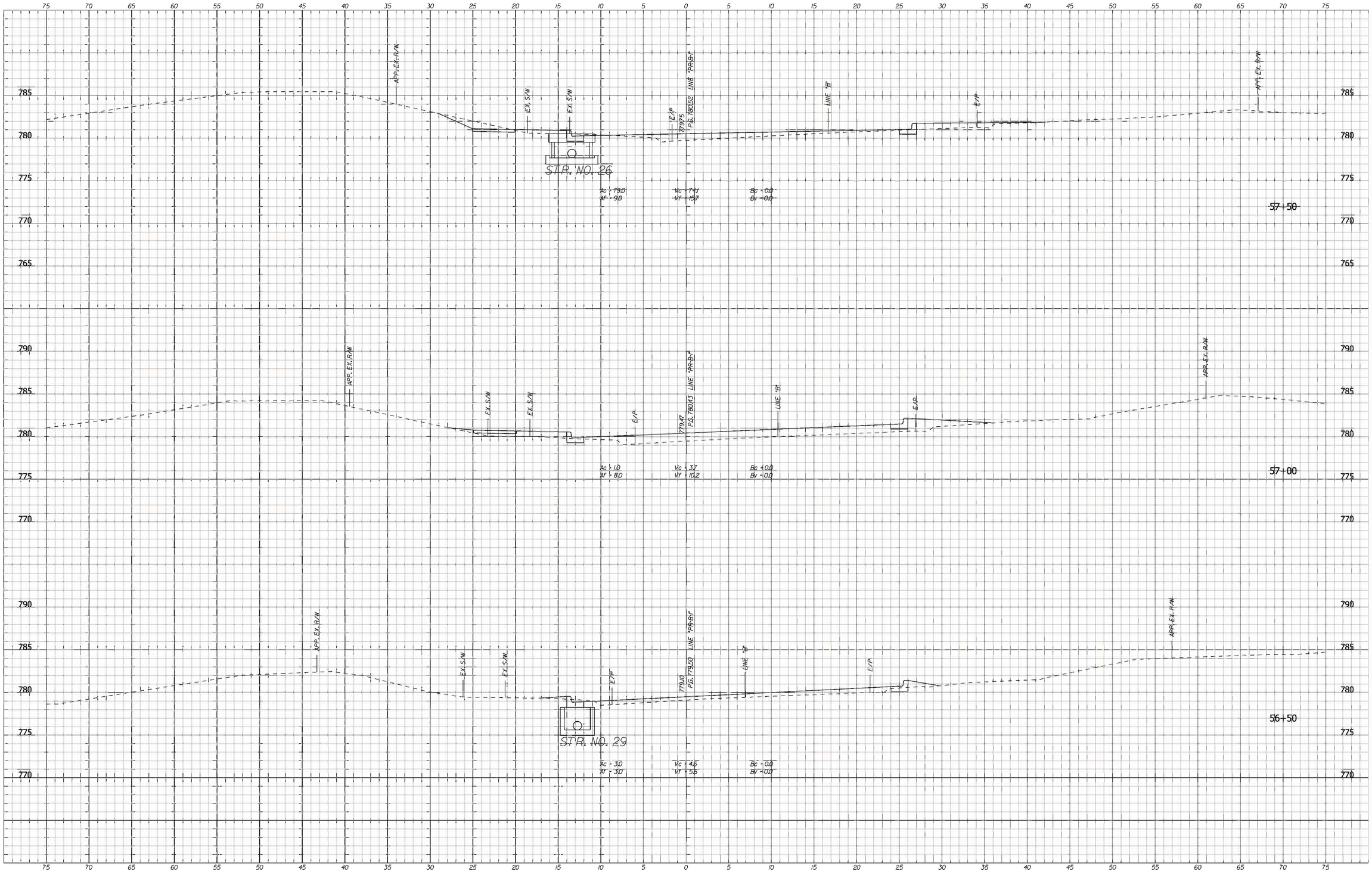
DESIGNED: BR | DRAWN: SI
CHECKED: AR | CHECKED: BR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "B" WITH "PR-B-1" OR "PR-B-2"

HORIZONTAL SCALE 1" = 5'-0"	BRIDGE FILE
VERTICAL SCALE 1" = 5'-0"	DESIGNATION 0900213
SURVEY BOOK	SHEETS 41 of 54
CONTRACT	PROJECT 0900213

c:\pw_temp\v0030\dgn\xs\XS-B_Sheet.dgn
XS_SHEET_XSBH
3/22/2011 3:58:09 AM



STORM SEWERS AND STRUCTURES ARE SHOWN AT THE NEAREST CROSS SECTION FOR INFORMATION ONLY.
SEE PLANS AND STRUCTURE DATA TABLES FOR ACTUAL LOCATIONS.

RECOMMENDED FOR APPROVAL _____ X/XX/10
DESIGN ENGINEER DATE

DESIGNED: BR DRAWN: SI
CHECKED: AR CHECKED: BR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "B" WITH "PR-B-1" OR "PR-B-2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	42 of 54
CONTRACT	PROJECT
	0900213

XS_SHEET_XSBI-2
3/22/2011 3:58:13 AM
c:\pw_temp\v0030\dgn\xs\XS-B_Sheet.dgn

STORM SEWERS AND STRUCTURES ARE SHOWN AT THE NEAREST CROSS SECTION FOR INFORMATION ONLY.
SEE PLANS AND STRUCTURE DATA TABLES FOR ACTUAL LOCATIONS.

RECOMMENDED FOR APPROVAL _____ X/XX/10
DESIGN ENGINEER DATE

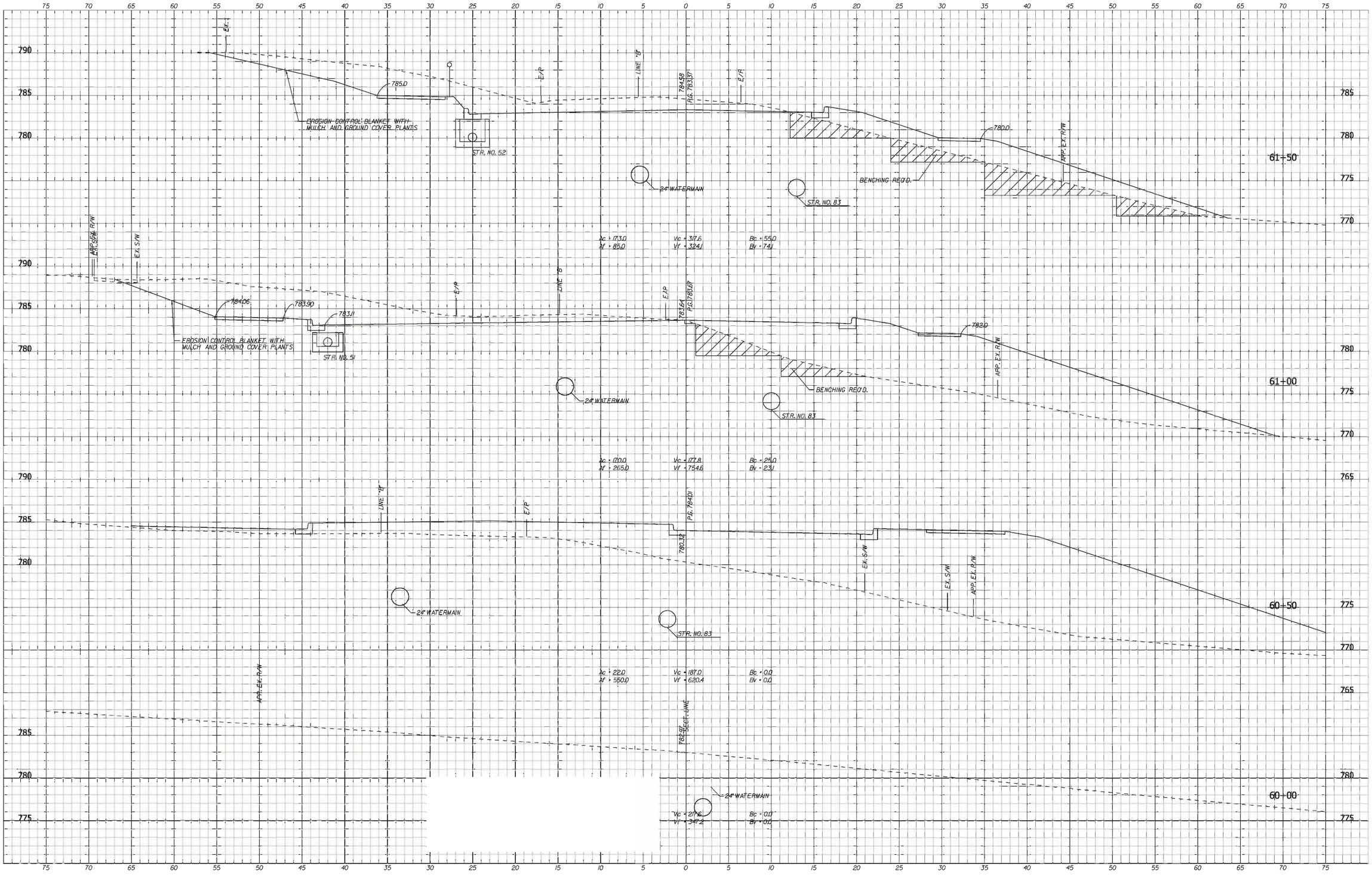
DESIGNED: BR DRAWN: SI
CHECKED: AR CHECKED: BR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "B" WITH "PR-B-1" OR "PR-B-2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	43 of 54
CONTRACT	PROJECT
	0900213

c:\projects\0030\dgn\xs\S-B_Sheet.dgn
XS_SHEET_XSB1-3
3/22/2011 3:58:19 AM



STORM SEWERS AND STRUCTURES ARE SHOWN AT THE NEAREST CROSS SECTION FOR INFORMATION ONLY.
SEE PLANS AND STRUCTURE DATA TABLES FOR ACTUAL LOCATIONS.

RECOMMENDED FOR APPROVAL _____ X/XX/10
DESIGN ENGINEER DATE

DESIGNED: BR DRAWN: SI
CHECKED: AR CHECKED: BR

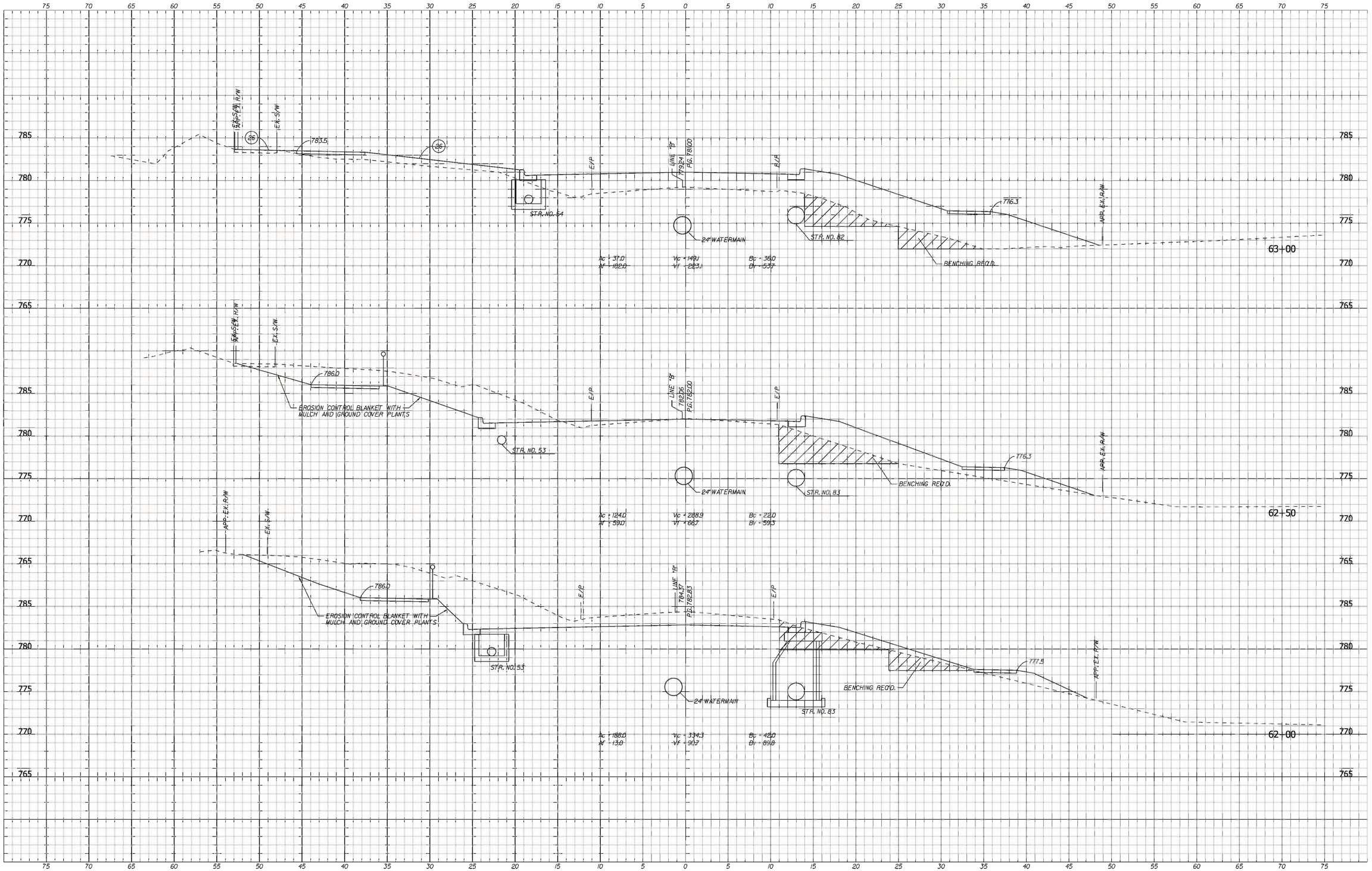
INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "B" WITH "PR-B-1" OR "PR-B-2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	44 of 54
CONTRACT	PROJECT
	0900213

c:\projects\0030\dgn\xs\XS-B_Steel.dgn

XS_SHEET_XSB2-1
3/22/2011 3:58:25 AM



STORM SEWERS AND STRUCTURES ARE SHOWN AT THE NEAREST CROSS SECTION FOR INFORMATION ONLY.
SEE PLANS AND STRUCTURE DATA TABLES FOR ACTUAL LOCATIONS.

RECOMMENDED FOR APPROVAL _____ X/XX/10
DESIGN ENGINEER DATE

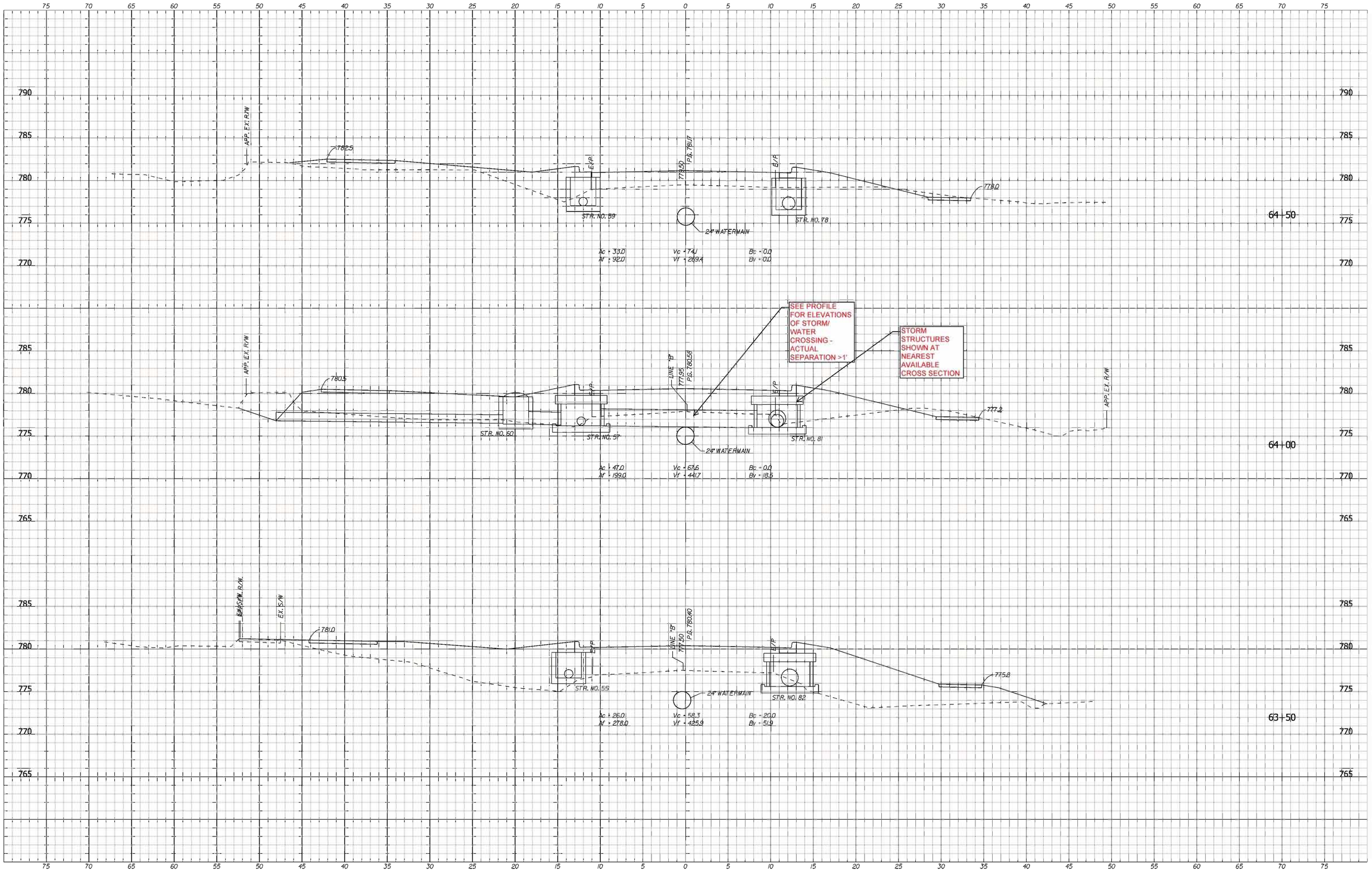
DESIGNED: BR DRAWN: SI
CHECKED: AR CHECKED: BR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "B" WITH "PR-B-1" OR "PR-B-2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	45 of 54
CONTRACT	PROJECT
	0900213

XS_SHEET_XSB2-2
3/22/2011 3:58:30 AM
c:\pw\Peters\00350\dgn\xs\XS-B_Sheet.dgn



STORM SEWERS AND STRUCTURES ARE SHOWN AT THE NEAREST CROSS SECTION FOR INFORMATION ONLY.
SEE PLANS AND STRUCTURE DATA TABLES FOR ACTUAL LOCATIONS.

RECOMMENDED FOR APPROVAL _____ X/XX/10
DESIGN ENGINEER DATE

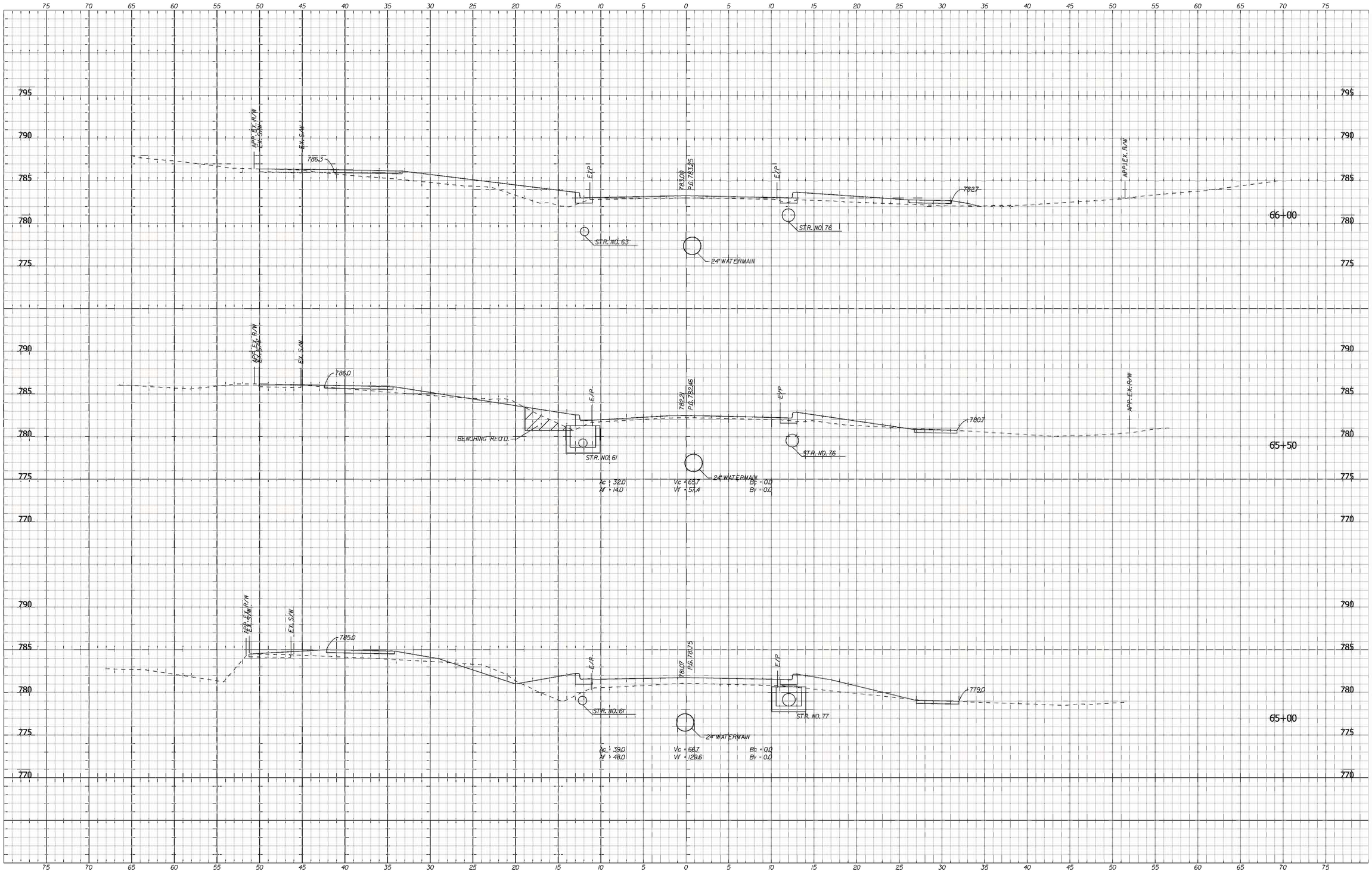
DESIGNED: BR DRAWN: SI
CHECKED: AR CHECKED: BR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "B" WITH "PR-B-1" OR "PR-B-2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	46 of 54
CONTRACT	PROJECT
	0900213

c:\pw_temp\v0030\dgn\xs\XS-B_Sheet.dgn
XS_SHEET_XSB2-3
3/22/2011 3:58:55 AM



STORM SEWERS AND STRUCTURES ARE SHOWN AT THE NEAREST CROSS SECTION FOR INFORMATION ONLY.
SEE PLANS AND STRUCTURE DATA TABLES FOR ACTUAL LOCATIONS.

RECOMMENDED FOR APPROVAL _____ X/XX/10
DESIGN ENGINEER DATE

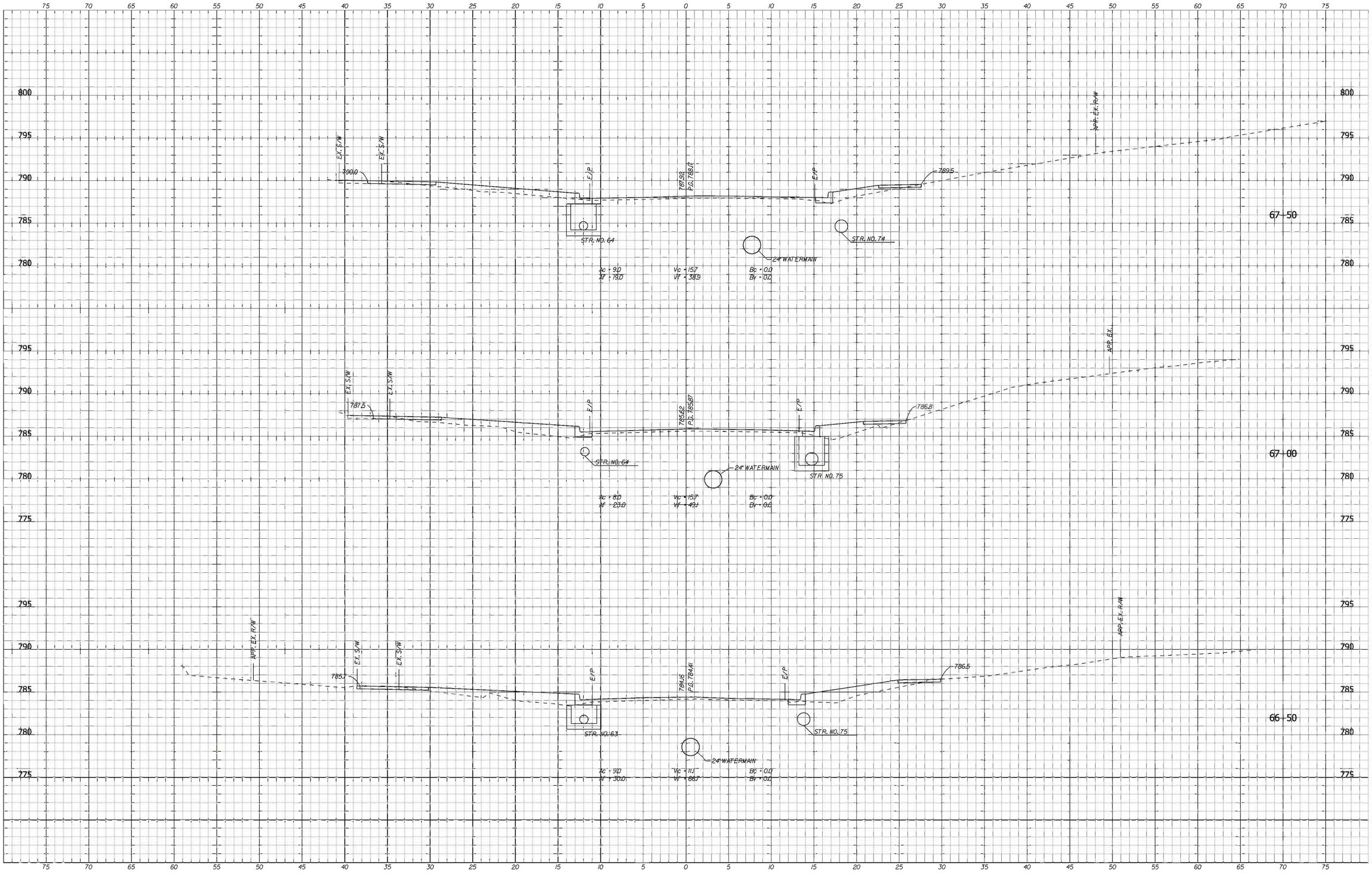
DESIGNED: BR | DRAWN: SI
CHECKED: AR | CHECKED: BR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "B" WITH "PR-B-1" OR "PR-B-2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	47 of 54
CONTRACT	PROJECT
	0900213

c:\pw_temp\v00300\dgn\xs\XS-B_Sheet.dgn
XS_SHEET_XSB2-4
3/22/2011 3:58:40 AM



STORM SEWERS AND STRUCTURES ARE SHOWN AT THE NEAREST CROSS SECTION FOR INFORMATION ONLY.
SEE PLANS AND STRUCTURE DATA TABLES FOR ACTUAL LOCATIONS.

RECOMMENDED FOR APPROVAL _____ X/XX/10
DESIGN ENGINEER DATE

DESIGNED: BR DRAWN: SI
CHECKED: AR CHECKED: BR

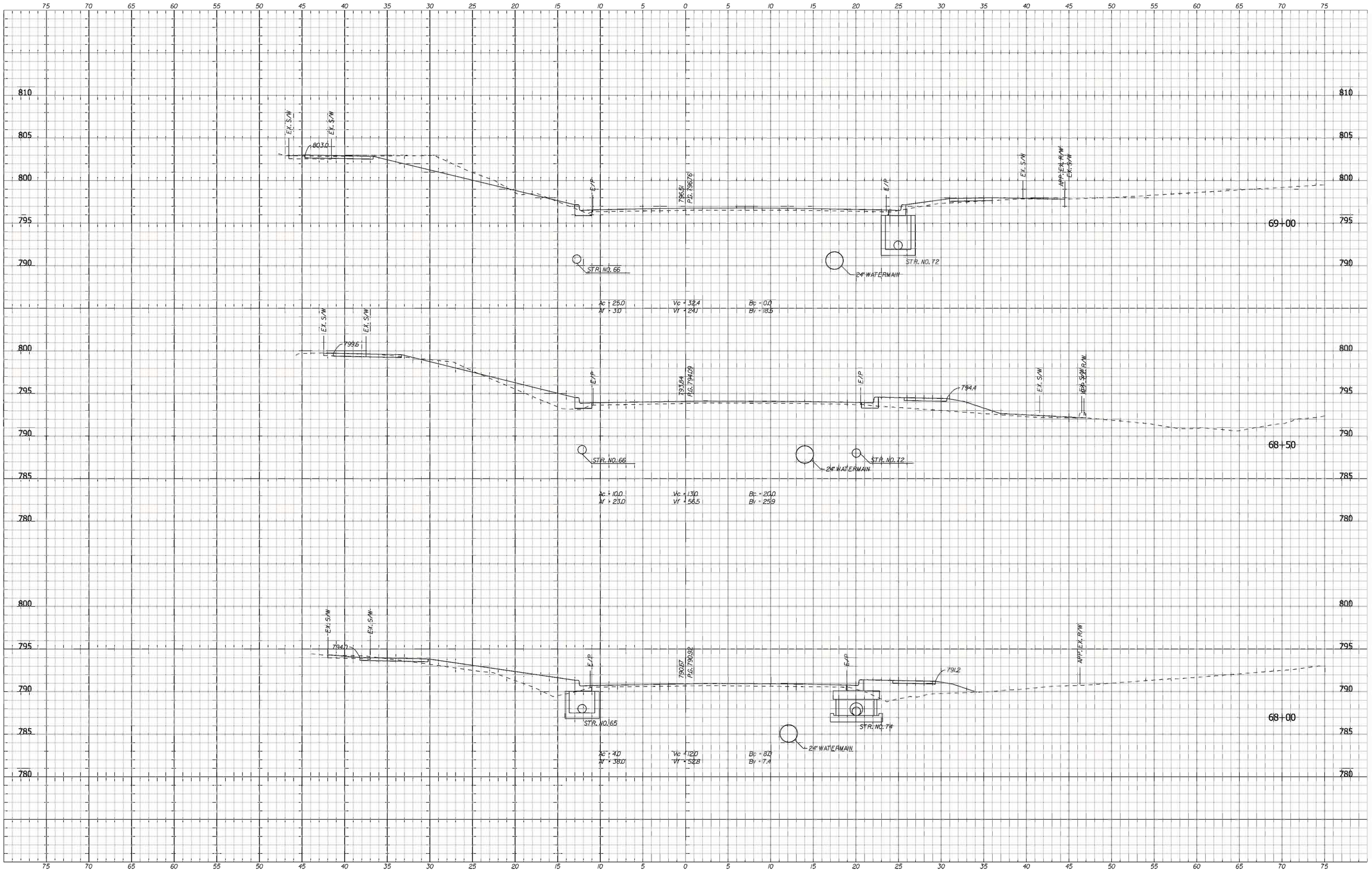
INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "B" WITH "PR-B-1" OR "PR-B-2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	48 of 54
CONTRACT	PROJECT
	0900213

c:\projects\0030\dgn\xs\VS-B_Steel.dgn

XS_SHEET_XSB2-5
3/22/2011 3:58:45 AM



STORM SEWERS AND STRUCTURES ARE SHOWN AT THE NEAREST CROSS SECTION FOR INFORMATION ONLY.
SEE PLANS AND STRUCTURE DATA TABLES FOR ACTUAL LOCATIONS.

RECOMMENDED FOR APPROVAL _____ X/XX/10
DESIGN ENGINEER DATE

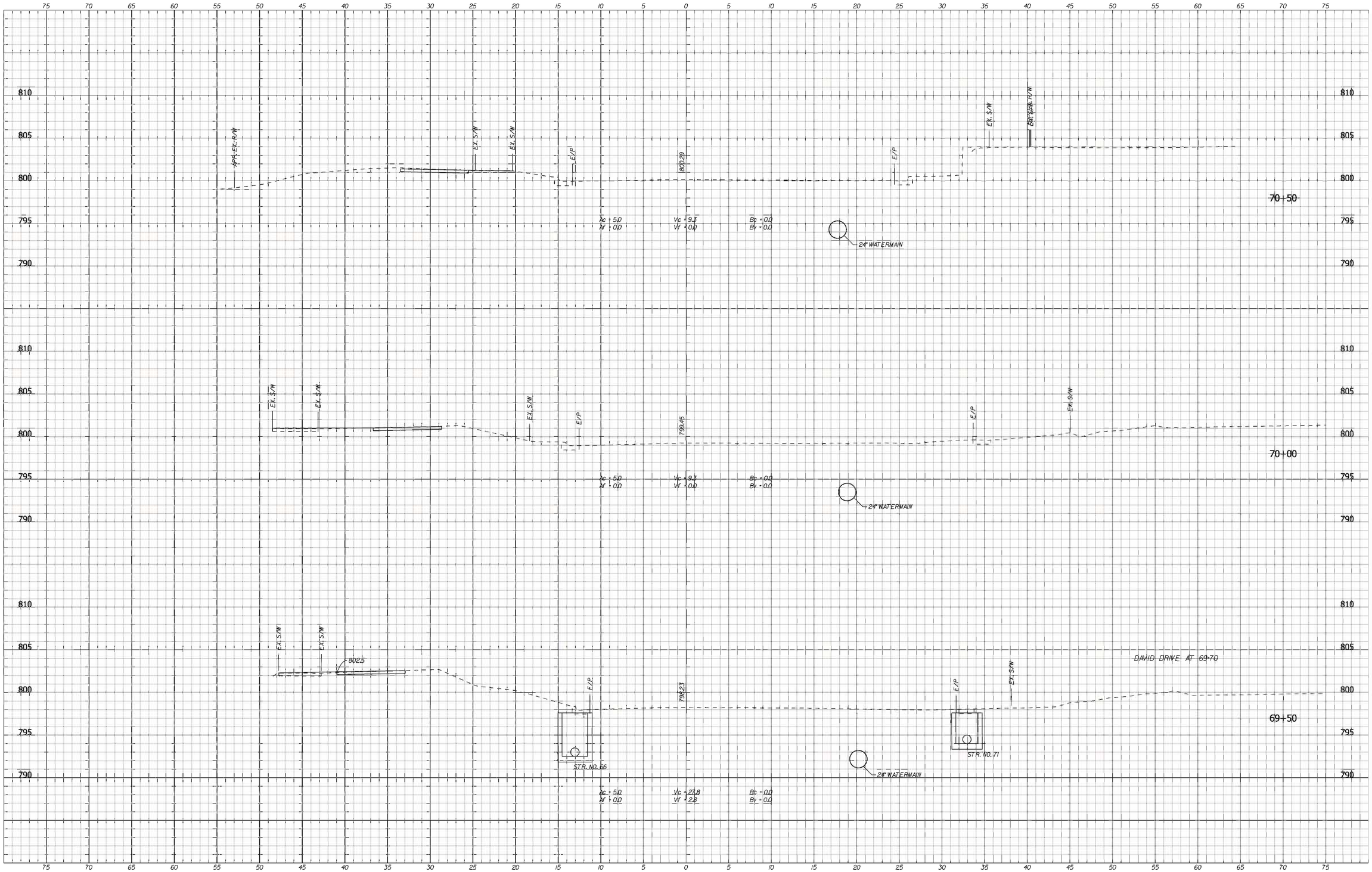
DESIGNED: BR | DRAWN: SI
CHECKED: AR | CHECKED: BR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "B" WITH "PR-B-1" OR "PR-B-2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	49 of 54
CONTRACT	PROJECT
	0900213

c:\pw_temp\wd00330\dgn\xs\XS-B_Sheet.dgn
XS_SHEET_XSB2-6
3/22/2011 3:58:50 AM



STORM SEWERS AND STRUCTURES ARE SHOWN AT THE NEAREST CROSS SECTION FOR INFORMATION ONLY.
SEE PLANS AND STRUCTURE DATA TABLES FOR ACTUAL LOCATIONS.

RECOMMENDED FOR APPROVAL _____ X/XX/10
DESIGN ENGINEER DATE

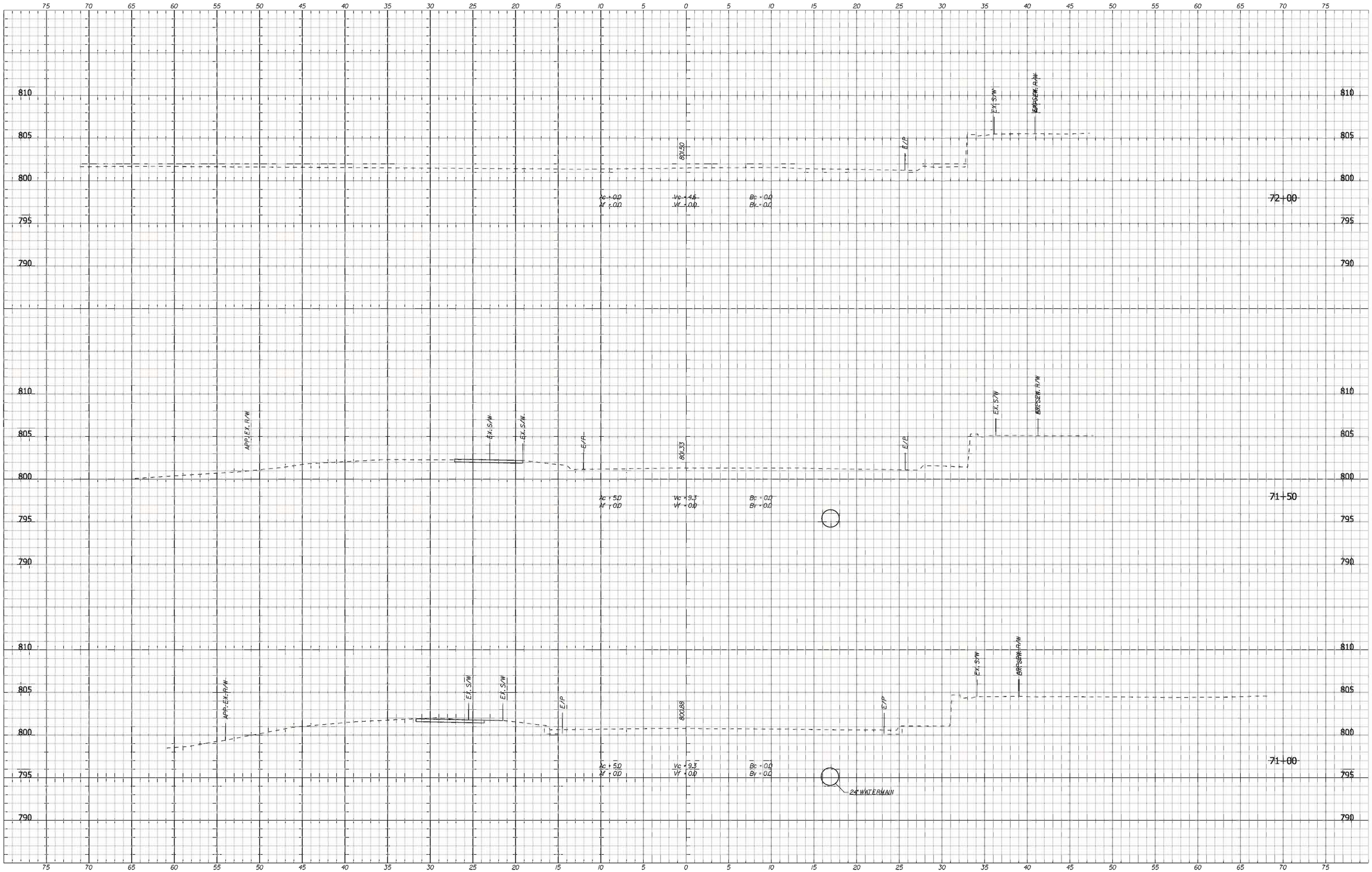
DESIGNED: BR DRAWN: SI
CHECKED: AR CHECKED: BR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "B" WITH "PR-B-1" OR "PR-B-2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	50 of 54
CONTRACT	PROJECT
	0900213

c:\pro_tools\100330\dgn\xs\XS-B_Sheet.dgn
XS_SHEET XSB2-7
3/22/2011 3:58:56 AM



STORM SEWERS AND STRUCTURES ARE SHOWN AT THE NEAREST CROSS SECTION FOR INFORMATION ONLY.
SEE PLANS AND STRUCTURE DATA TABLES FOR ACTUAL LOCATIONS.

RECOMMENDED FOR APPROVAL _____ X/XX/10
DESIGN ENGINEER DATE

DESIGNED: BR DRAWN: SI
CHECKED: AR CHECKED: BR

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "B" WITH "PR-B-1" OR "PR-B-2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'-0"	
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	51 of 54
CONTRACT	PROJECT
	0900213

c:\pro\fedsr\0030\dgn\xs\XS-B_Sheet.dgn
XS_SHEET_XSB2-B
3/22/2011 3:59:01 AM