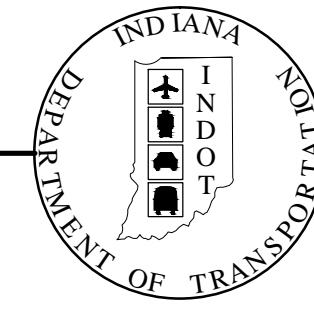


PROJECT	DESIGNATION
090173000	0901730
CONTRACT	BRIDGE FILE
R-36022	---

PRELIMINARY FIELD CHECK PLANS  
AUGUST 2015

# INDIANA DEPARTMENT OF TRANSPORTATION



## ROAD PLANS

ROUTE: Tapp Road and Rockport Road Intersection Improvement

CITY OF BLOOMINGTON  
BOARD OF PUBLIC WORKS

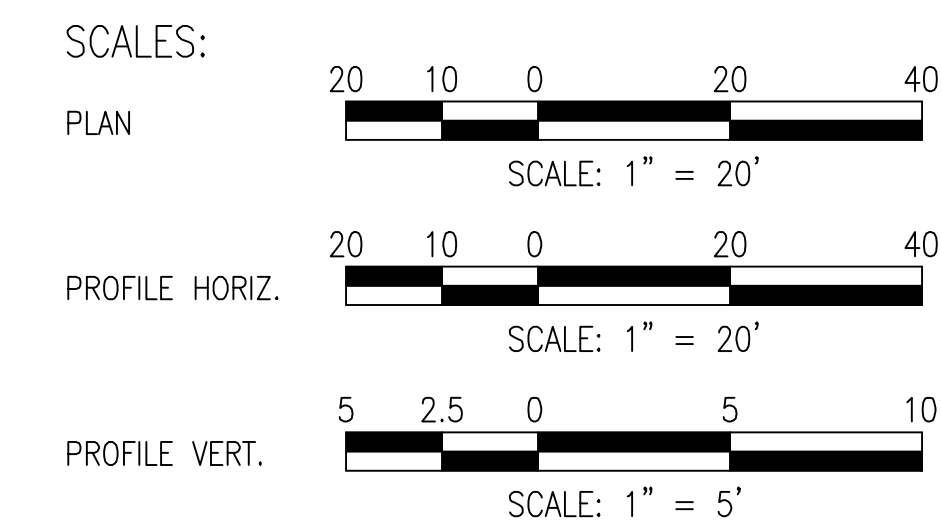
PROJECT NO. 090173000 (X) P.E.  
090173000 (X) R/W  
ADDITIONAL RIGHT OF WAY REQUIRED FOR THIS PROJECT 090173000 (X) CONST.

MARK KRUZAN, MAYOR \_\_\_\_\_ DATE \_\_\_\_\_

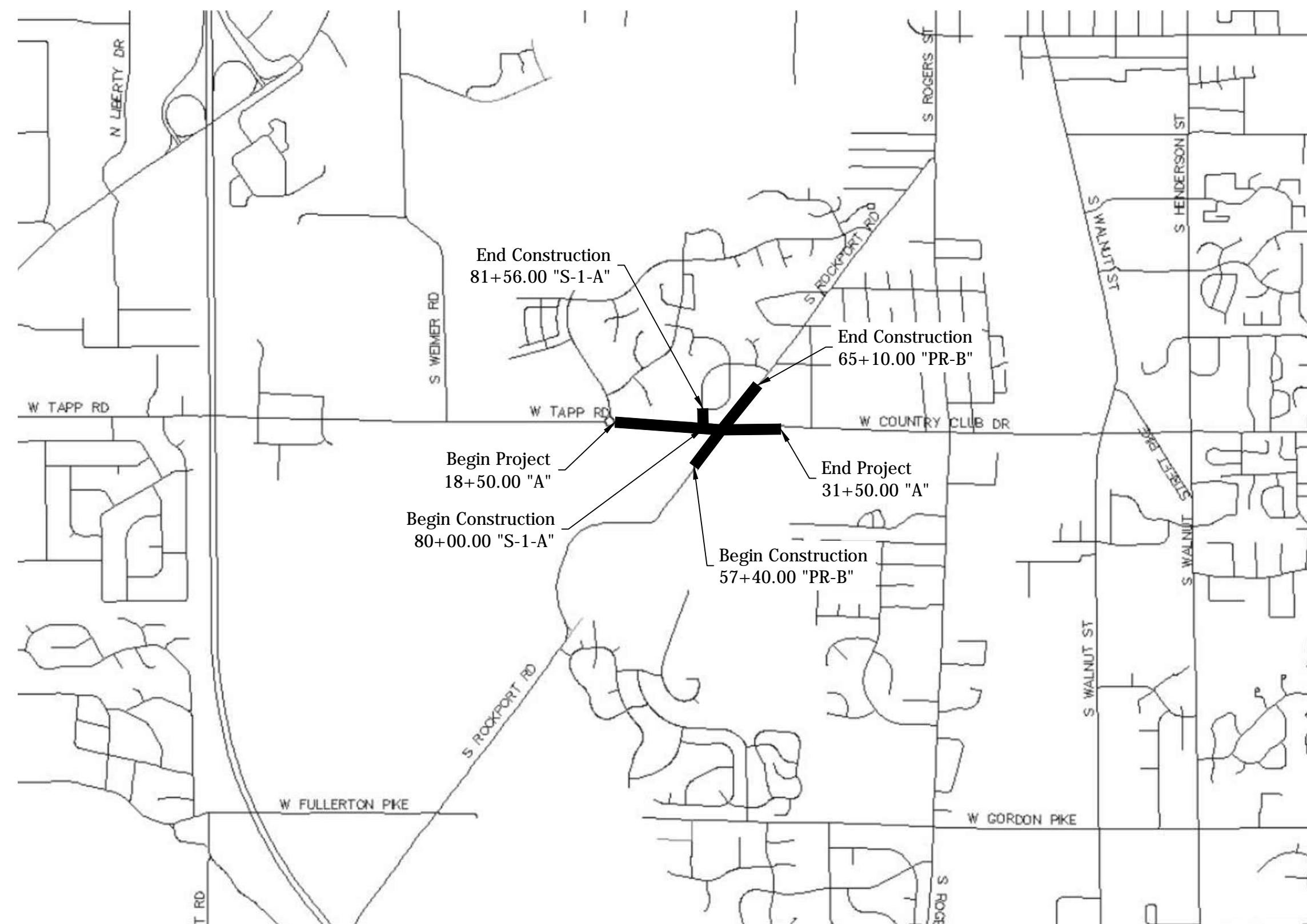
CHARLOTTE ZIETLOW, PRESIDENT \_\_\_\_\_ DATE \_\_\_\_\_

JAMES McNAMARA, VICE-PRESIDENT \_\_\_\_\_ DATE \_\_\_\_\_

ROY ATEN, ERC \_\_\_\_\_ DATE \_\_\_\_\_



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

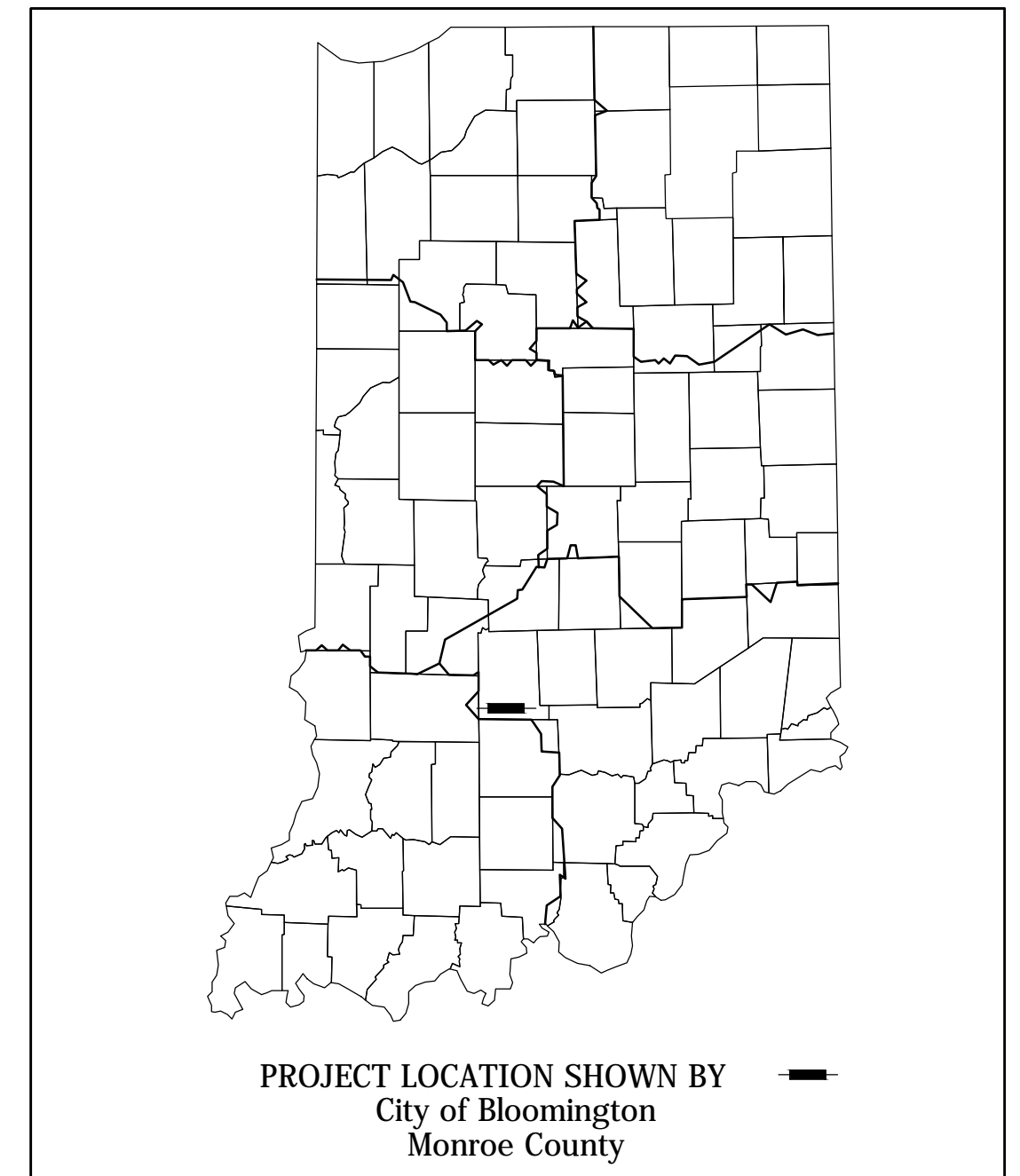


MONROE COUNTY  
SCALE: 1" = 3000'

TRAFFIC DATA	TAPP ROAD	ROCKPORT ROAD
A.A.D.T. 2017	12,500 V.P.D.	3,416 V.P.D.
A.A.D.T. (2037)	14,830 V.P.D.	4,050 V.P.D.
D.H.V. (2037)	1,240 V.P.H.	450 V.P.H.
DIRECTIONAL DISTRIBUTION	50% EB	50% NB
TRUCKS	5% A.A.D.T.	3% A.A.D.T.
	5% D.H.V.	2% D.H.V.

DESIGN DATA	TAPP ROAD	ROCKPORT ROAD
DESIGN SPEED	35 mph	35 mph
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	MINOR ARTERIAL	LOCAL AGENCY COLLECTOR
RURAL/URBAN	URBAN (SUBURBAN)	URBAN (SUBURBAN)
TERRAIN	ROLLING	ROLLING
ACCESS CONTROL	NONE	NONE



LATITUDE 39°08'11" N LONGITUDE 86°32'33" W

GROSS LENGTH: 0.39 MI.  
NET LENGTH: 0.39 MI.  
MAX. GRADE: 4.95%

REGISTERED PROFESSIONAL ENGINEER  
STATE OF INDIANA NO. \_\_\_\_\_  
COVERING \_\_\_\_\_ DESIGN

REGISTERED PROFESSIONAL ENGINEER  
STATE OF INDIANA NO. \_\_\_\_\_  
COVERING \_\_\_\_\_ DESIGN

REGISTERED PROFESSIONAL ENGINEER  
STATE OF INDIANA NO. \_\_\_\_\_  
COVERING \_\_\_\_\_ DESIGN

NOT FOR  
CONSTRUCTION

NOT FOR  
CONSTRUCTION

NOT FOR  
CONSTRUCTION

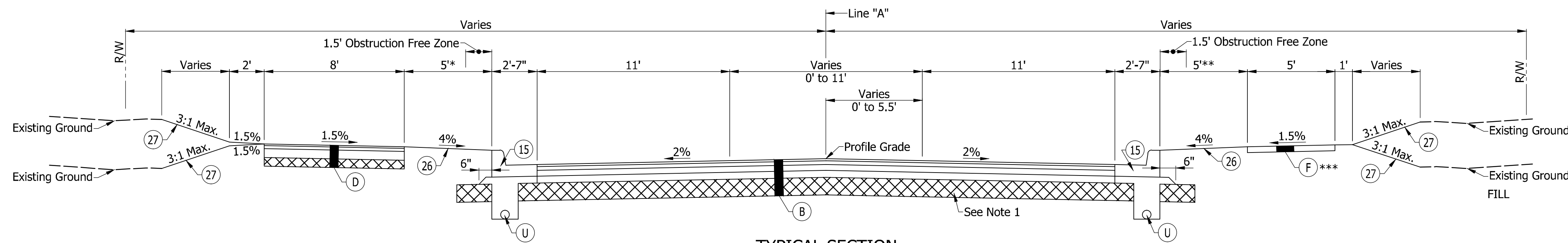
APPROVED FOR LETTING: \_\_\_\_\_



INDIANA DEPARTMENT OF TRANSPORTATION  
STANDARD SPECIFICATIONS DATED 2016  
AND CURRENT SUPPLEMENTS THERETO,  
TO BE USED WITH THESE PLANS

	BRIDGE FILE	
	---	
	DESIGNATION	
	0901730	
SURVEY BOOK	SHEETS	
ELECTRONIC	1 of 53	
CONTRACT	PROJECT	
R-36022	090173000	



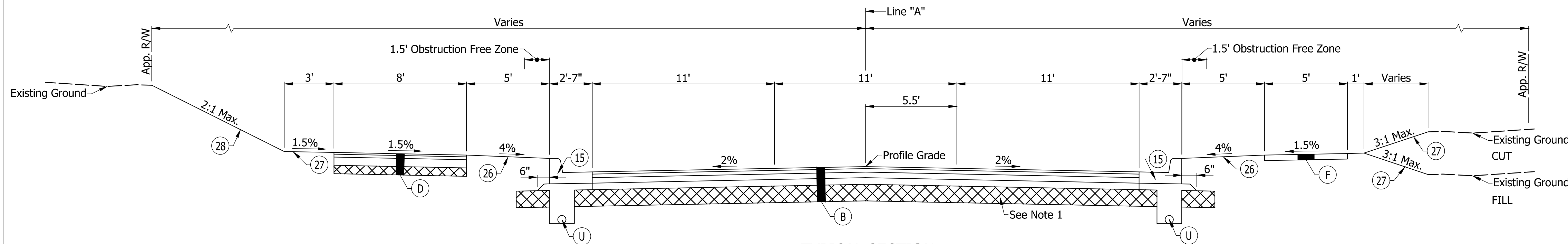


**TYPICAL SECTION**

Sta. 18+50.00 "A" to Sta. 23+29.00 "A"  
 Sta. 24+10.00 "A" to Sta. 26+85.00 "A"  
 Sta. 30+72.49 "A" to Sta. 31+50.00 "A"

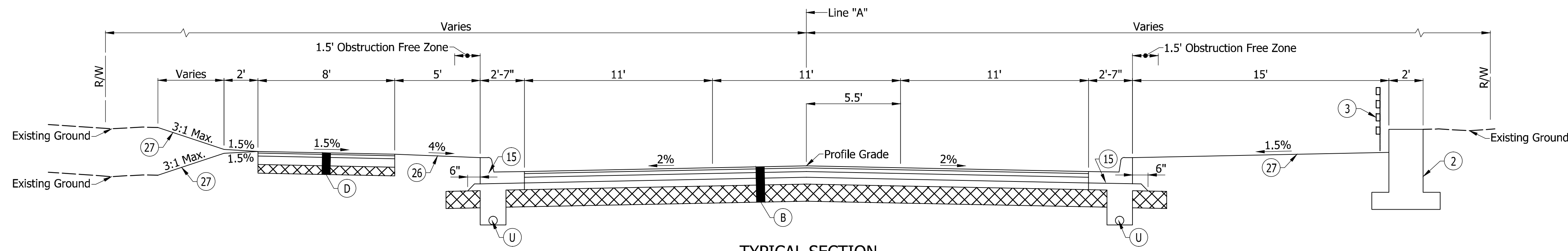
\*Typical Offset Distance Varies 5' to 23' Between Sta. 18+50.00 "A" to Sta. 22+40.27 "A"  
 \*\*Sidewalk Offset Distance Varies 5' to 24.85' Between Sta. 18+50.00 "A" to Sta. 22+13.65 "A"  
 \*\*\*No Sidewalk Between Sta. 27+07.27 "A" to Sta. 32+00.00 "A"

NOTE TO REVIEWER:  
 PAVEMENT DESIGN TO BE FINALIZED  
 AFTER INDIANA DEPARTMENT OF  
 TRANSPORTATION PAVEMENT SECTION



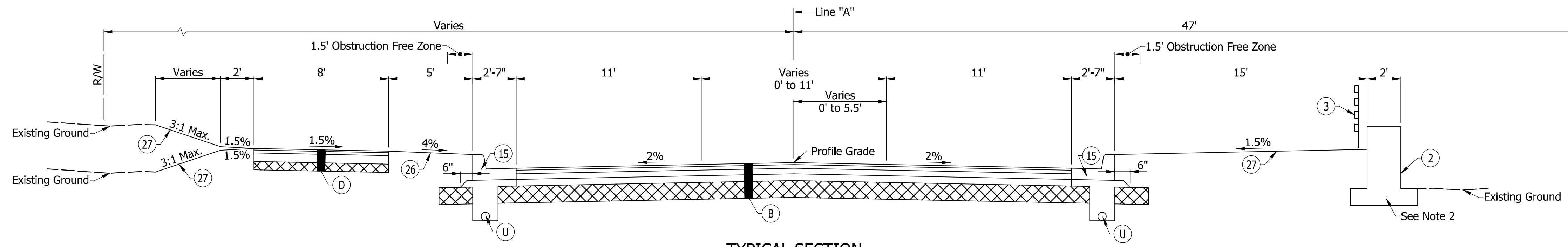
**TYPICAL SECTION**

Sta. 23+29.00 "A" to Sta. 24+10.00 "A"



**TYPICAL SECTION**

Sta. 26+85.00 "A" to Sta. 29+57.40 "A"



**TYPICAL SECTION**

Sta. 29+57.40 "A" to Sta. 30+72.49 "A"

**NOTES**

- Subgrade Treatment to be Type IC From Sta. 22+00.00 "A" to Sta. 23+75.00 "A".
- Retaining Wall Ends at Sta. 30+66.00 "A", Rt.

**LEGEND**

- (2) Retaining Wall
- (3) Pedestrian Railing
- (15) Combined Concrete Curb and Gutter
- (26) Nursery Sodding
- (27) Seed Mixture, U
- (28) Seed Mixture, U on Erosion Control Blanket
- (B) Mainline Pavement Section  
 165#/SYD QC/QA-HMA, 3, 70, Surface, 9.5 mm, on  
 275#/SYD QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on  
 440#/SYD QC/QA-HMA, 3, 64, Base, 25.0 mm, on  
 3" Compacted Aggregate, Base, No. 53, on  
 Subgrade Treatment, Type IB
- (D) HMA for Sidewalk to be:  
 140#/SYD HMA, Type A, on  
 220#/SYD HMA, Type A, on  
 6" Compacted Aggregate Base, No. 53, on  
 Subgrade Treatment, Type III
- (F) Concrete Sidewalk, 4"
- (U) Underdrain, See Detail, Sheet No. 6

Date: Mar 09, 2016, 11:22am User ID: jhall  
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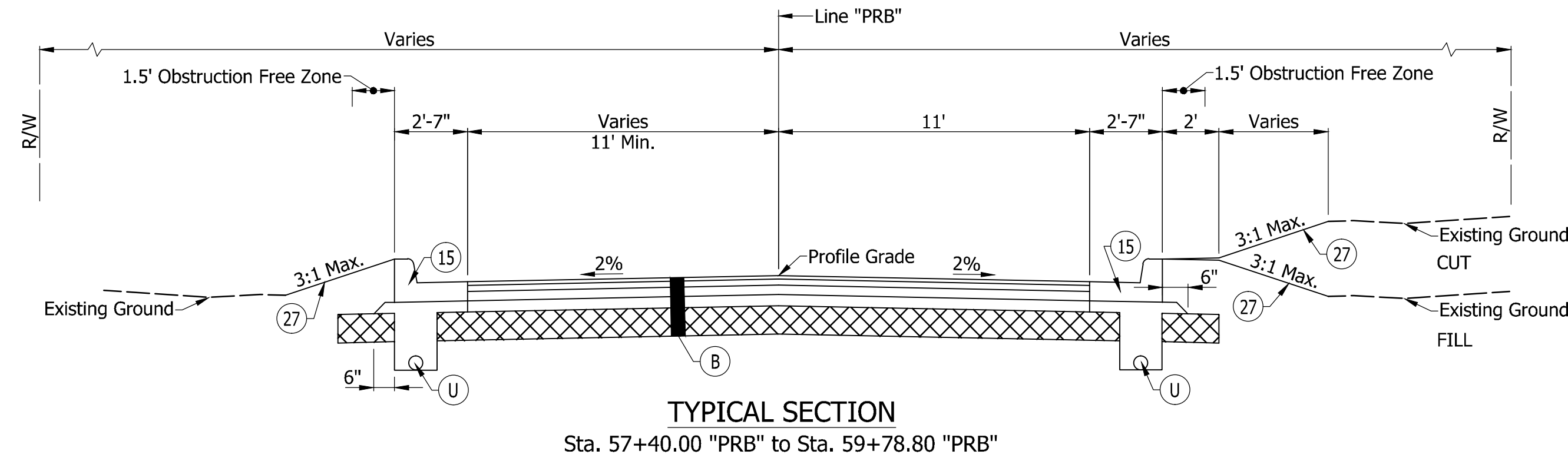
NOT FOR  
 CONSTRUCTION  
 DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

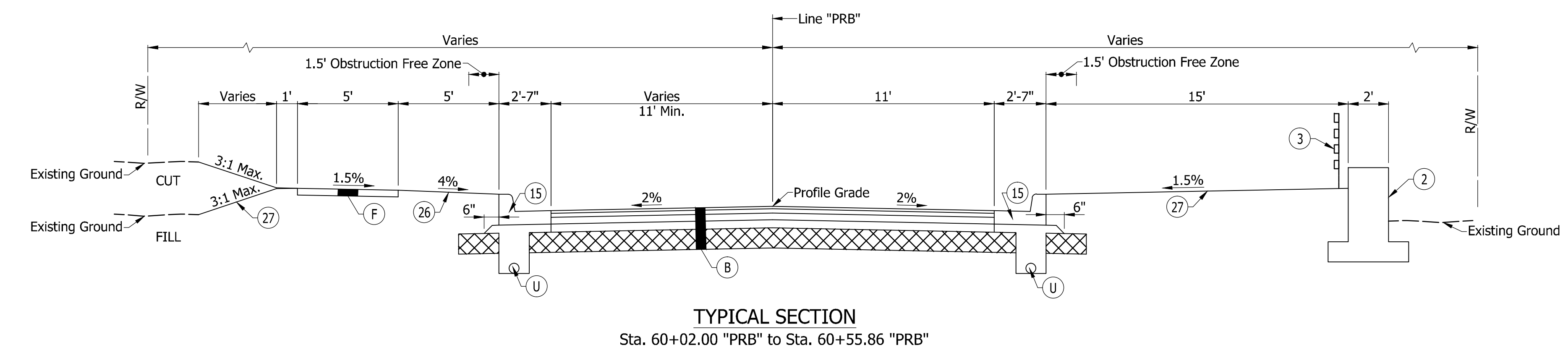
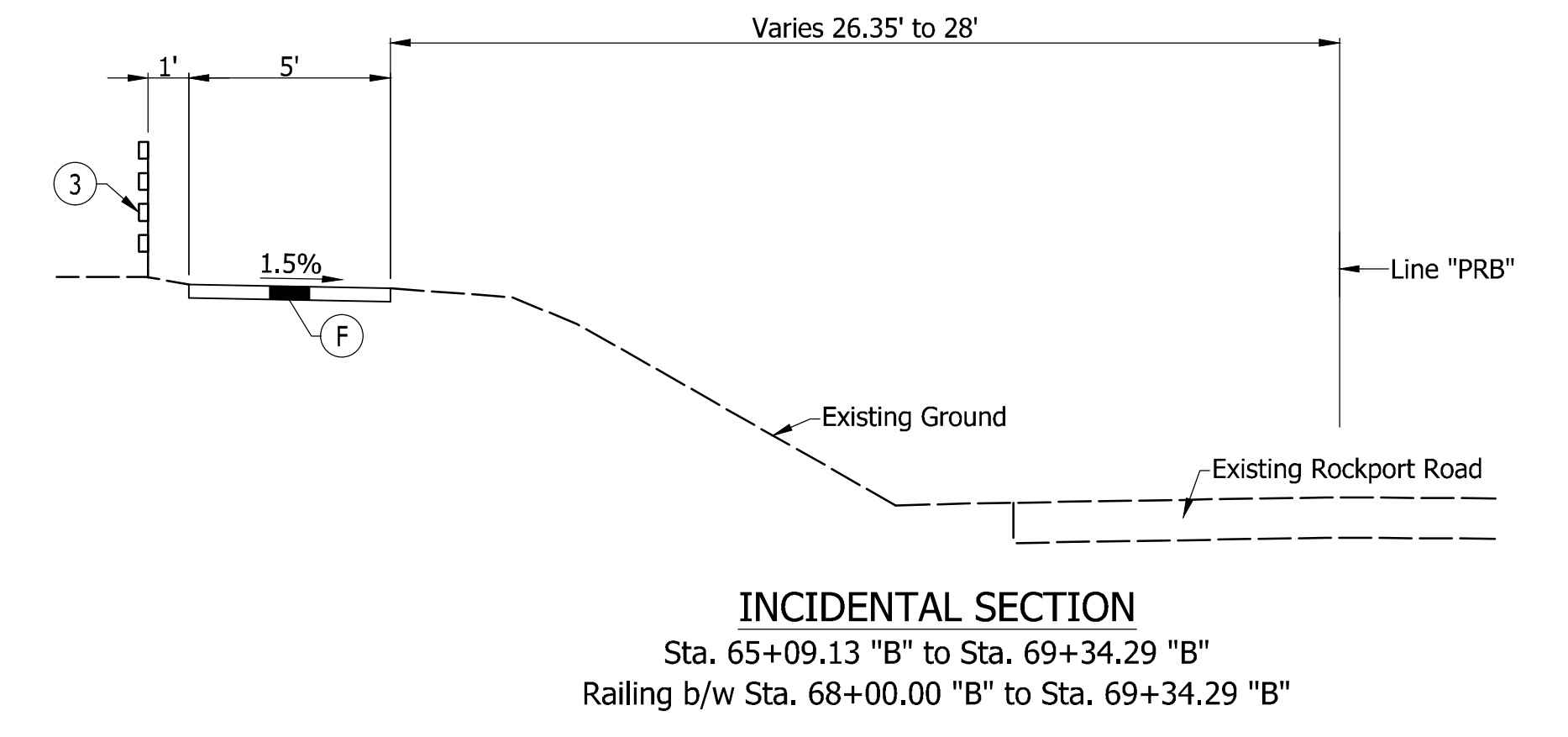
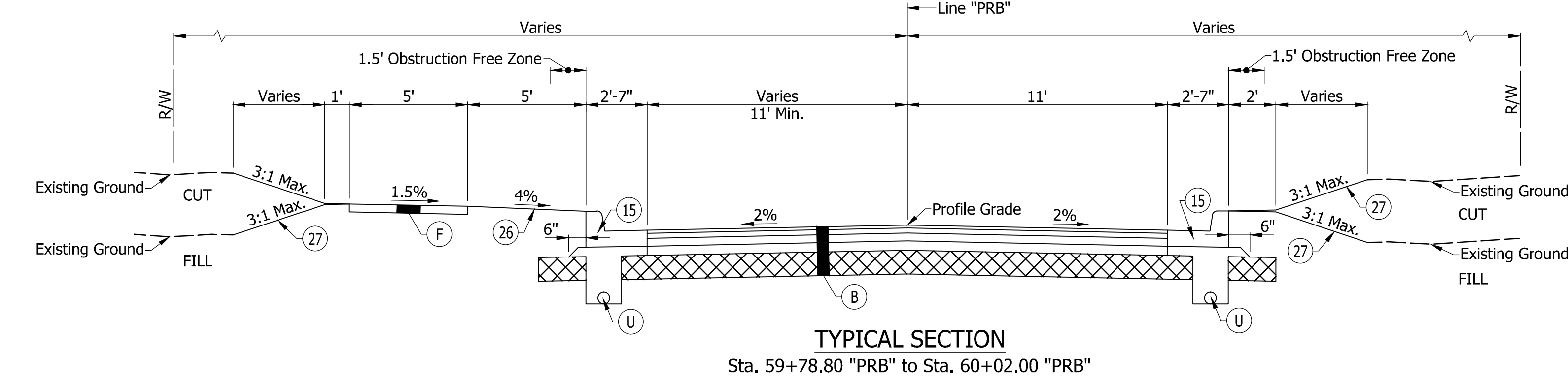
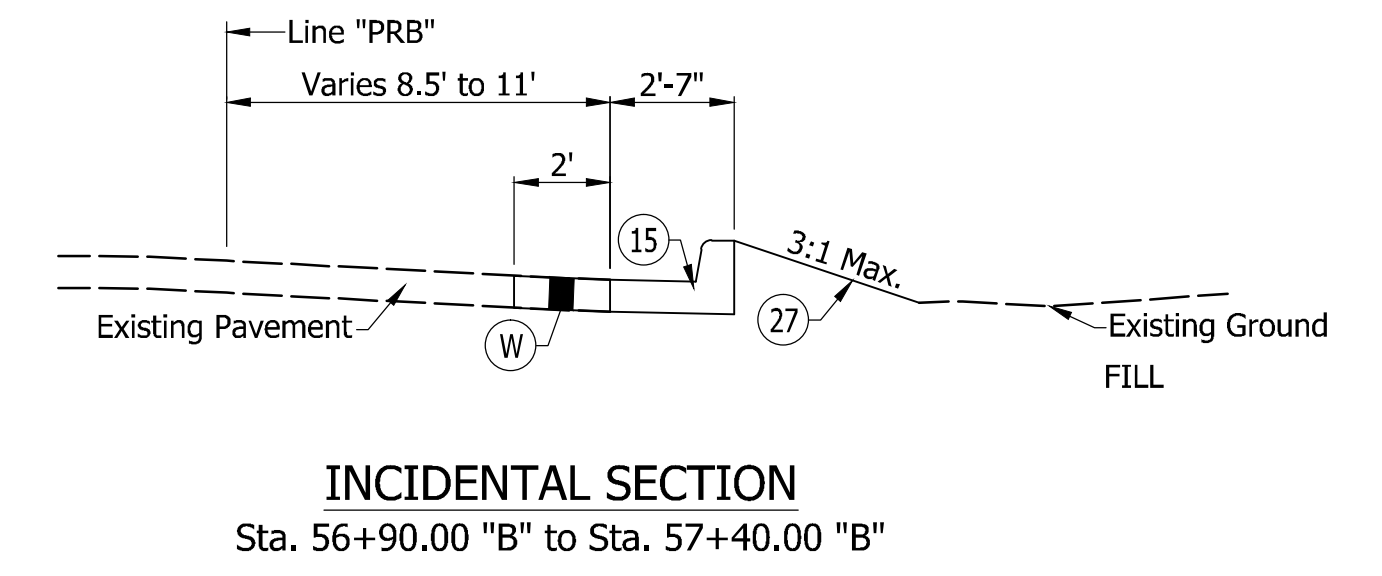
INDIANA DEPARTMENT OF TRANSPORTATION

**TYPICAL SECTIONS**

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	---
VERTICAL SCALE	DESIGNATION
	0901730
SURVEY BOOK	SHEETS
---	3 of 53
CONTRACT	PROJECT
R-36022	090173000



NOTE TO REVIEWER:  
PAVEMENT DESIGN TO BE FINALIZED  
AFTER INDIANA DEPARTMENT OF  
TRANSPORTATION PAVEMENT SECTION



LEGEND	
(2)	Retaining Wall
(3)	Pedestrian Railing
(15)	Combined Concrete Curb and Gutter
(16)	Curb and Gutter, Rolled Curb
(26)	Nursery Sodding
(27)	Seed Mixture, U
(28)	Seed Mixture, U on Erosion Control Blanket
(B)	Mainline Pavement Section 165#/SYD QC/QA-HMA, 3, 70, Surface, 9.5 mm, on 275#/SYD QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on 440#/SYD QC/QA-HMA, 3, 64, Base, 25.0 mm, on 3" Compacted Aggregate, Base, No. 53, on Subgrade Treatment, Type IB
(D)	HMA for Sidewalk to be: 140#/SYD HMA, Type A, on 220#/SYD HMA, Type A, on 6" Compacted Aggregate Base, No. 53, on Subgrade Treatment, Type III
(F)	Concrete Sidewalk, 4"
(U)	Underdrain, See Detail, Sheet No. 6
(W)	HMA for Pavement Widening to be: 165#/SYD QC/QA-HMA, 3, 70, Surface, 9.5 mm, on 275#/SYD QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on 440#/SYD QC/QA-HMA, 3, 64, Base, 25.0 mm, on 3" Compacted Aggregate, Base, No. 53, on Subgrade Treatment, Type IB

Date: Mar 09 2016 11:22am User ID: jhall  
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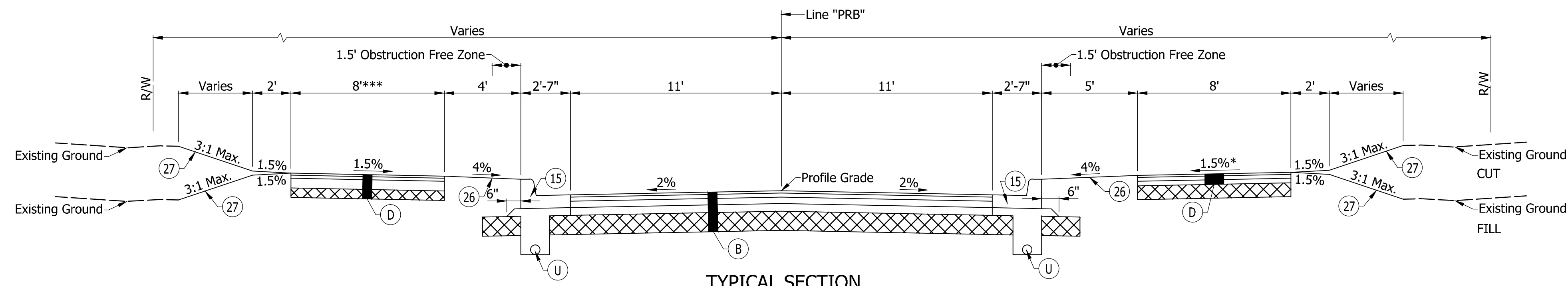
NOT FOR  
CONSTRUCTION  
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

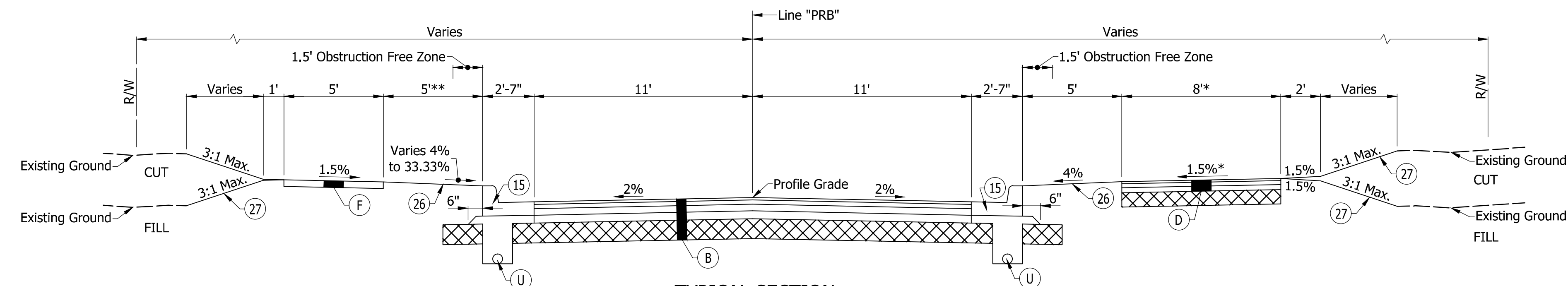
INDIANA  
DEPARTMENT OF TRANSPORTATION  
**TYPICAL SECTIONS**

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	---
VERTICAL SCALE	DESIGNATION
	0901730
SURVEY BOOK	SHEETS
---	4 of 53
CONTRACT	PROJECT
R-36022	090173000

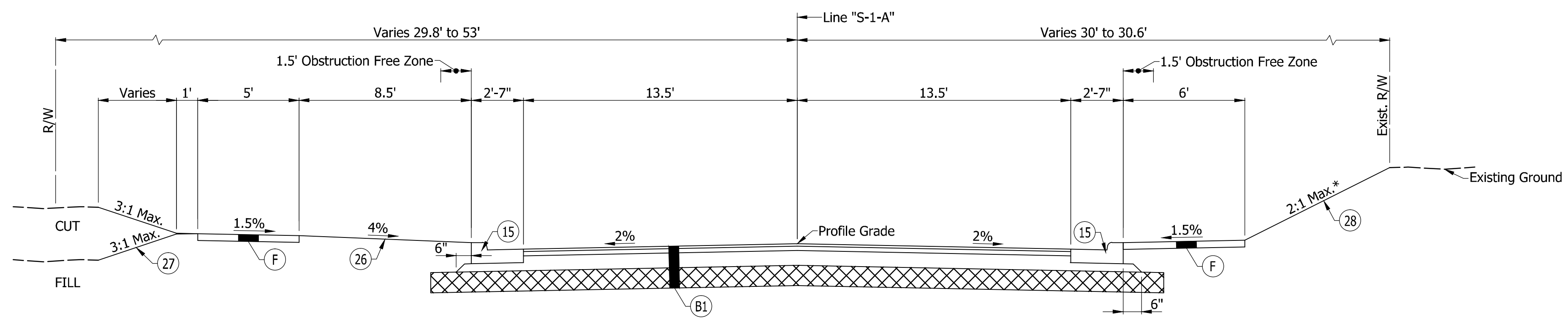




**TYPICAL SECTION**  
 Sta. 60+62.63 "PRB" to Sta. 61+50.00 "PRB"  
 \*Trail Ends at 64+21.65 "PRB", Rt.  
 \*\*\*Width Varies From 8' to 5' From Sta. 61+10.00 "PRB" to Sta. 61+50.00 "PRB", Lt.



**TYPICAL SECTION**  
 Sta. 61+50.00 "PRB" to Sta. 65+10.00 "PRB"  
 \*Trail Ends at 64+21.65 "PRB", Rt.  
 \*\*Sidewalk Offset Distance Varies 5' to 14.5' Between Sta. 64+00.00 "PRB" to Sta. 65+10.00 "PRB"



**TYPICAL SECTION**  
 Sta. 80+00.00 "S-1-A" to Sta. 81+56.00 "S-1-A"  
 \*2:1 Slope Ends at 81+10.00

LEGEND	
(2)	Retaining Wall
(3)	Pedestrian Railing
(15)	Combined Concrete Curb and Gutter
(26)	Nursery Sodding
(27)	Seed Mixture, U
(B1)	165#/SYD QC/QA-HMA, 3, 70, Surface, 9.5 mm, on 275#/SYD QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on 7" Compacted Aggregate, Base, No. 53, on Subgrade Treatment, Type IB
(D)	HMA for Sidewalk to be: 140#/SYD HMA, Type A, on 220#/SYD HMA, Type A, on 6" Compacted Aggregate Base, No. 53, on Subgrade Treatment, Type III
(R)	165#/SYD QC/QA-HMA, 4, 70, Surface, 9.5 mm, on Variable Depth Milling
(U)	Underdrain, See Detail, Sheet No. 6
(W)	HMA for Pavement Widening to be: 165#/SYD QC/QA-HMA, 3, 70, Surface, 9.5 mm, on 275#/SYD QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on 440#/SYD QC/QA-HMA, 3, 64, Base, 25.0 mm, on 3" Compacted Aggregate, Base, No. 53, on Subgrade Treatment, Type IB

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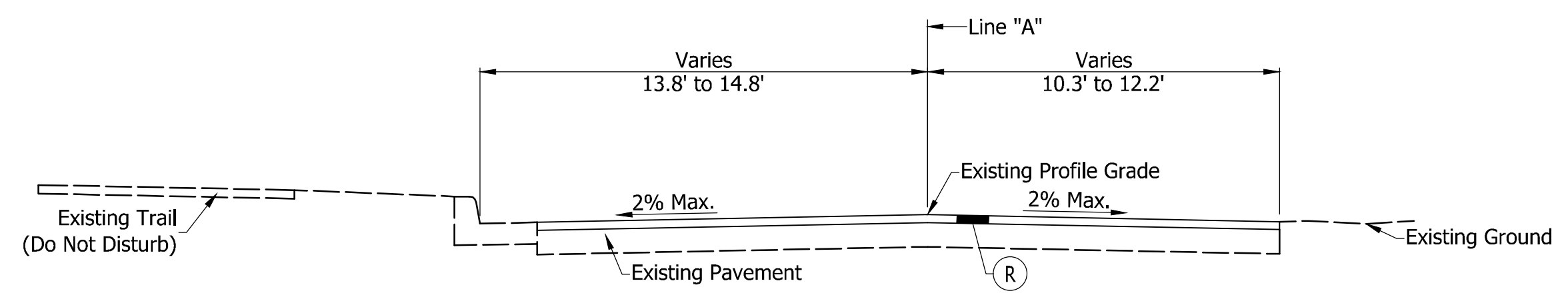


NOT FOR CONSTRUCTION  
 DLZ INDIANA, LLC

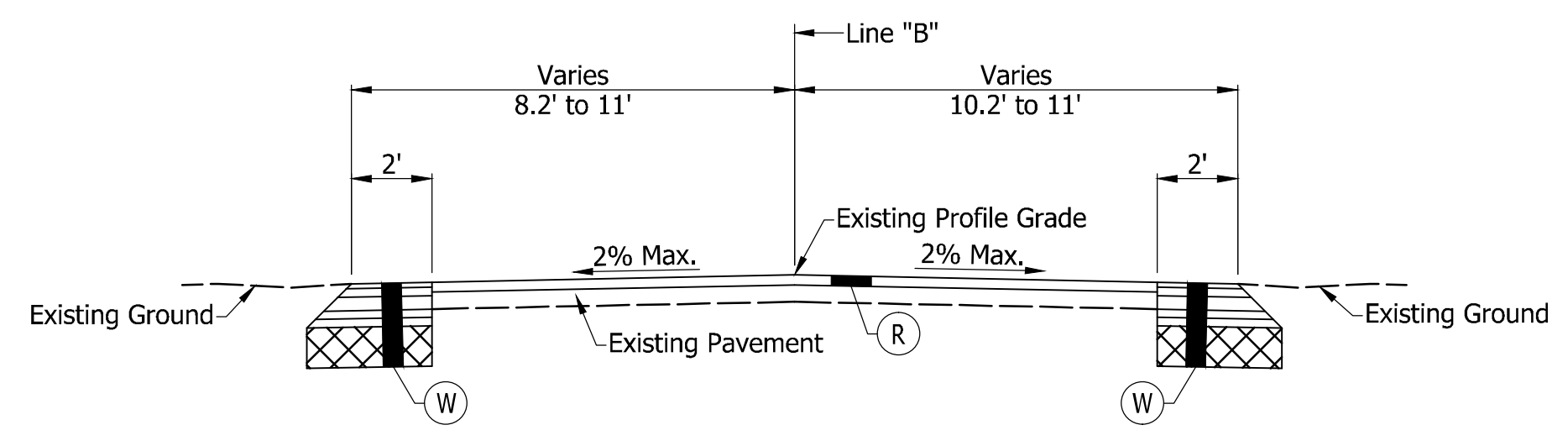
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

INDIANA DEPARTMENT OF TRANSPORTATION	
TYPICAL SECTIONS	

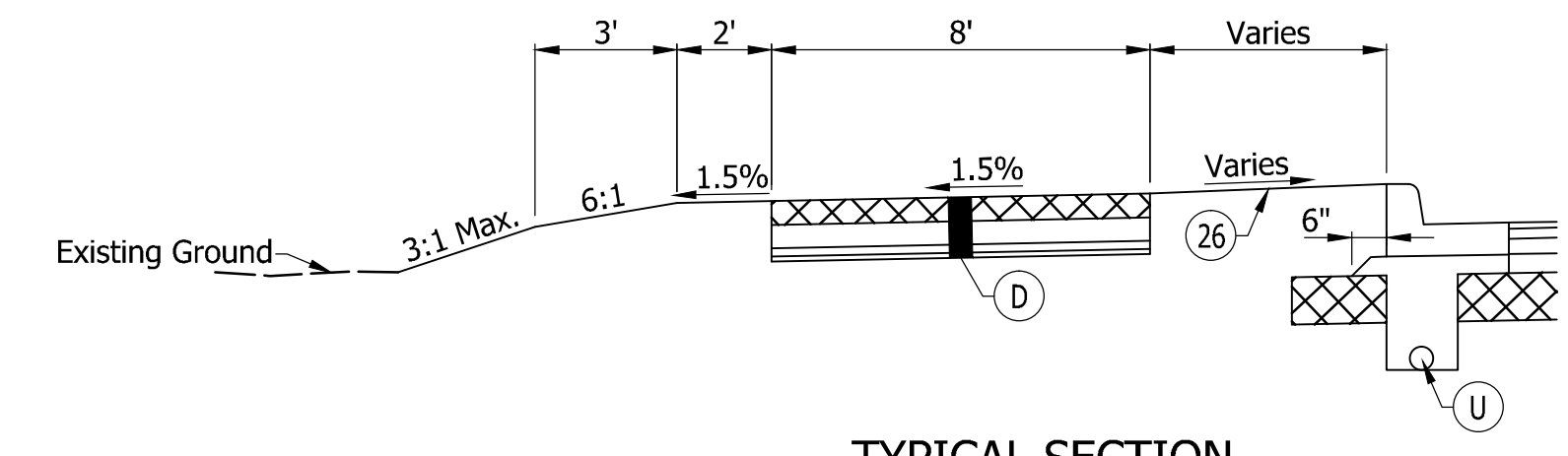
HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	---
VERTICAL SCALE	DESIGNATION
	0901730
SURVEY BOOK	SHEETS
---	5 of 53
CONTRACT	PROJECT
R-36022	090173000



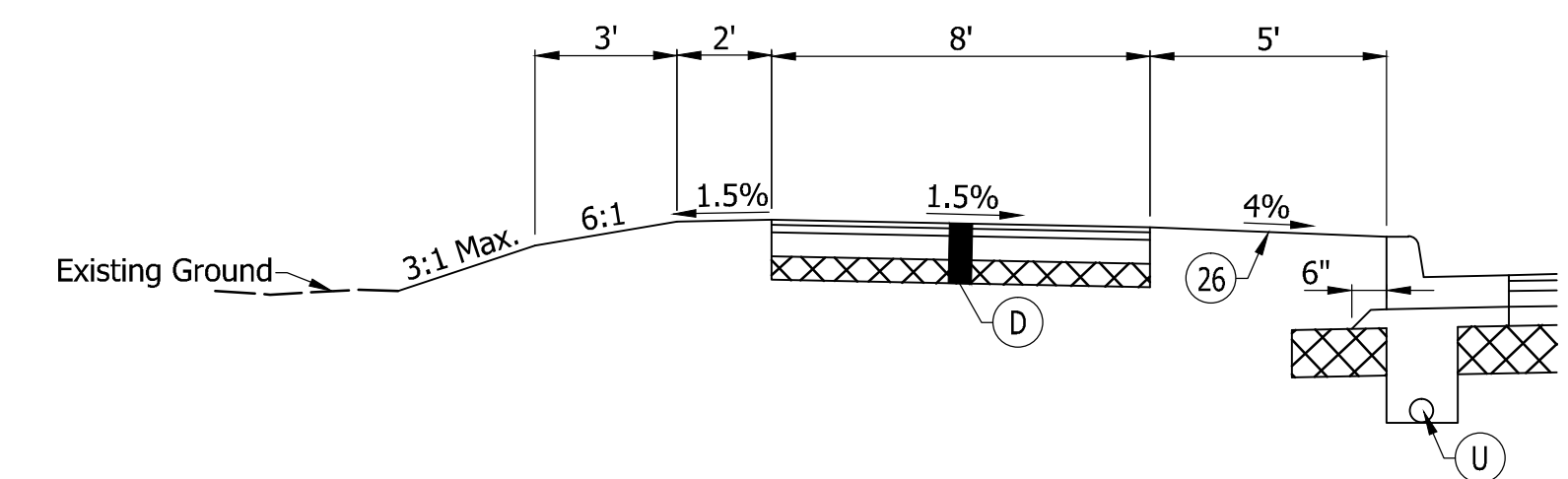
**INCIDENTAL CONSTRUCTION**  
Sta. 31+50.00 "A" to Sta. 32+00.00 "A"



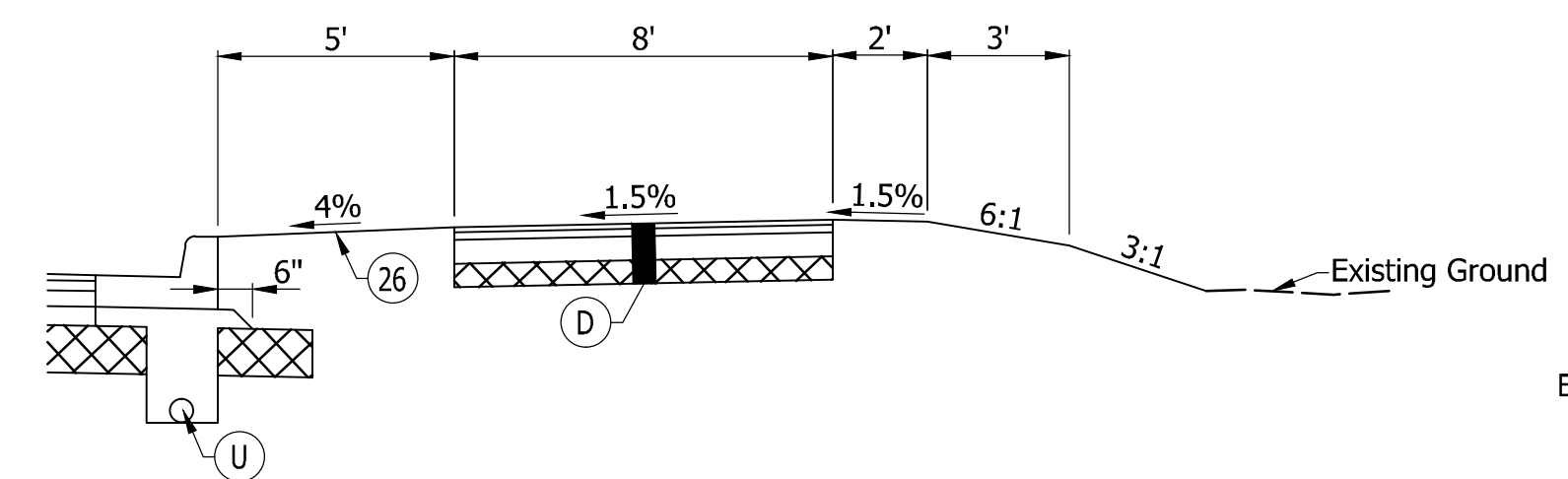
**INCIDENTAL CONSTRUCTION**  
Sta. 65+09.13 "B" to Sta. 65+60.00 "B"



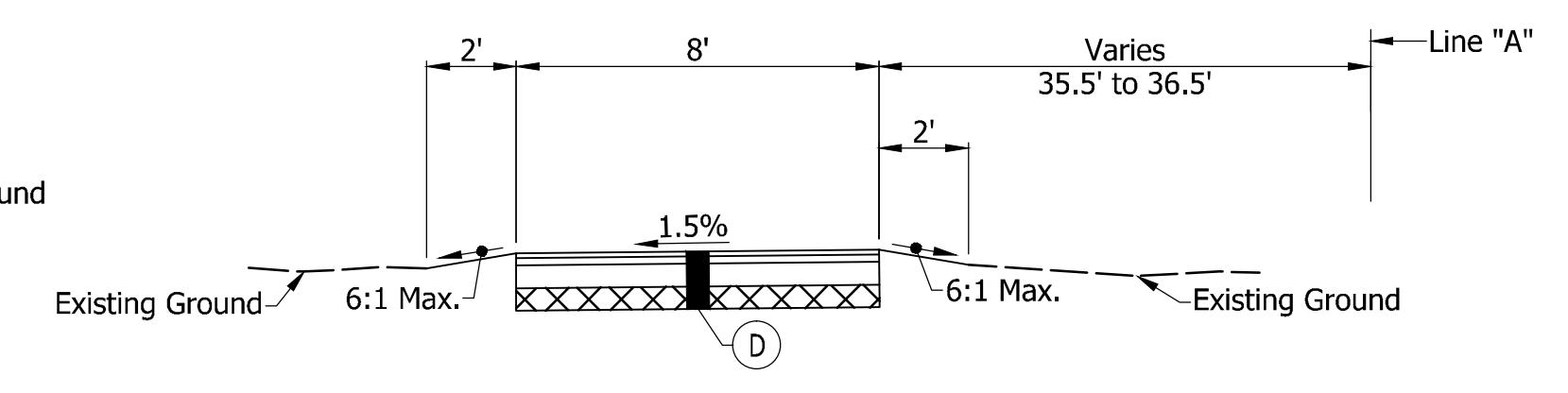
**TYPICAL SECTION**  
Sta. 19+00.00 "A" to Sta. 21+00.00 "A", Lt.



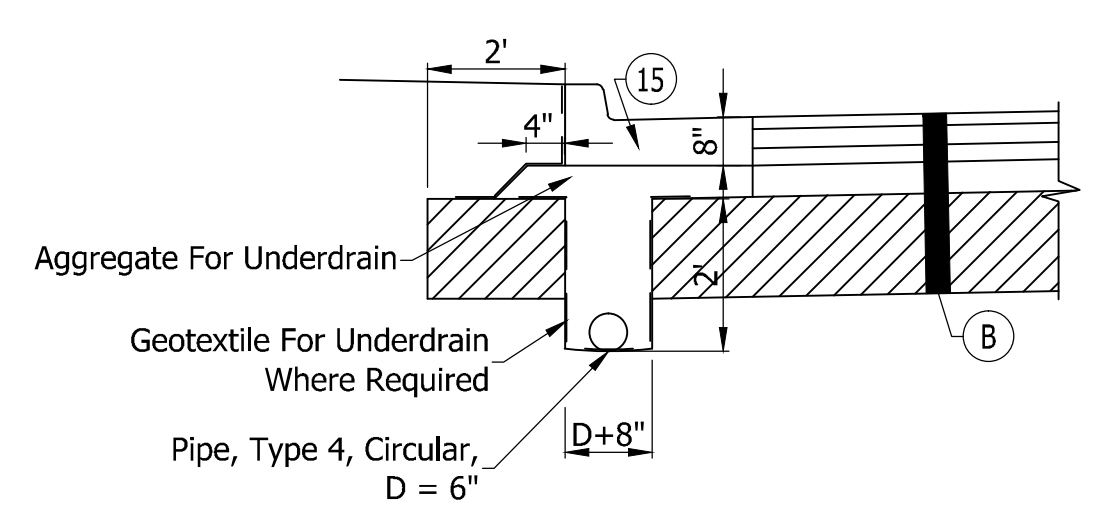
**TYPICAL SECTION**  
Sta. 27+60.00 "A" to Sta. 29+25.00 "A", Lt.



**TYPICAL SECTION**  
Sta. 61+66.00 "PRB" to Sta. 64+00.00 "PRB", Rt.



**INCIDENTAL SECTION**  
Sta. 12+74.56 "A" to Sta. 18+50.00 "A"



**UNDERDRAIN DETAIL**  
Not to Scale

LEGEND	
(2)	Retaining Wall
(3)	Pedestrian Railing
(15)	Combined Concrete Curb and Gutter
(26)	Nursery Sodding
(27)	Seed Mixture, U
(B1)	165#/SYD QC/QA-HMA, 3, 70, Surface, 9.5 mm, on 275#/SYD QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on 7" Compacted Aggregate Base, No. 53, on Subgrade Treatment, Type IB
(D)	HMA for Sidewalk to be: 140#/SYD HMA, Type A, on 220#/SYD HMA, Type A, on 6" Compacted Aggregate Base, No. 53, on Subgrade Treatment, Type III
(R)	165#/SYD QC/QA-HMA, 4, 70, Surface, 9.5 mm, on Variable Depth Milling
(U)	Underdrain, See Detail, Sheet No. 6
(W)	HMA for Pavement Widening to be: 165#/SYD QC/QA-HMA, 3, 70, Surface, 9.5 mm, on 275#/SYD QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on 440#/SYD QC/QA-HMA, 3, 64, Base, 25.0 mm, on 3" Compacted Aggregate, Base, No. 53, on Subgrade Treatment, Type IB

Date: Mar 09 2016 11:22am User ID: jhall  
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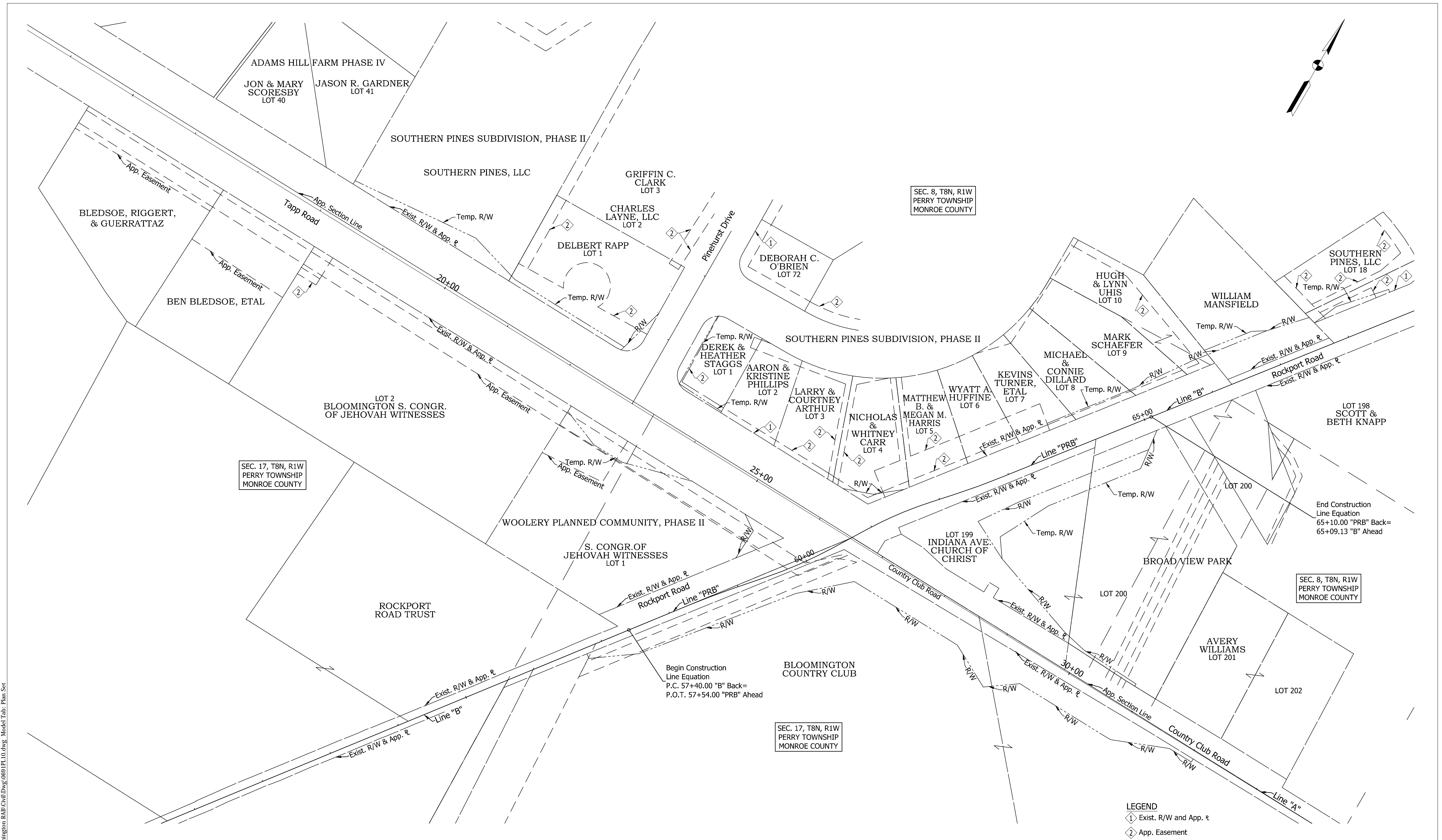
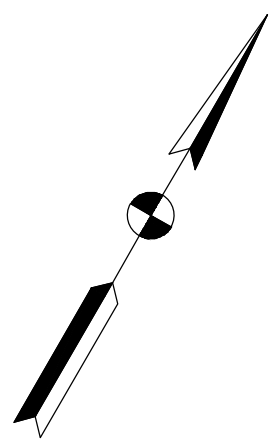


**NOT FOR CONSTRUCTION**  
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

INDIANA DEPARTMENT OF TRANSPORTATION	
TYPICAL SECTIONS	

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	---
VERTICAL SCALE	DESIGNATION
	0901730
SURVEY BOOK	SHEETS
---	6 of 53
CONTRACT	PROJECT
R-36022	090173000



SEC. 17, T8N, R1W  
PERRY TOWNSHIP  
MONROE COUNTY

SEC. 8, T8N, R1W  
PERRY TOWNSHIP  
MONROE COUNTY

SEC. 8, T8N, R1W  
PERRY TOWNSHIP  
MONROE COUNTY

SEC. 17, T8N, R1W  
PERRY TOWNSHIP  
MONROE COUNTY

Begin Construction  
Line Equation  
P.C. 57+40.00 "B" Back=  
P.O.T. 57+54.00 "PRB" Ahead

End Construction  
Line Equation  
65+10.00 "PRB" Back=  
65+09.13 "B" Ahead

- LEGEND**
- ① Exist. R/W and App. e
  - ② App. Easement

Date: Mar 10, 2016, 12:29pm User ID: ihill  
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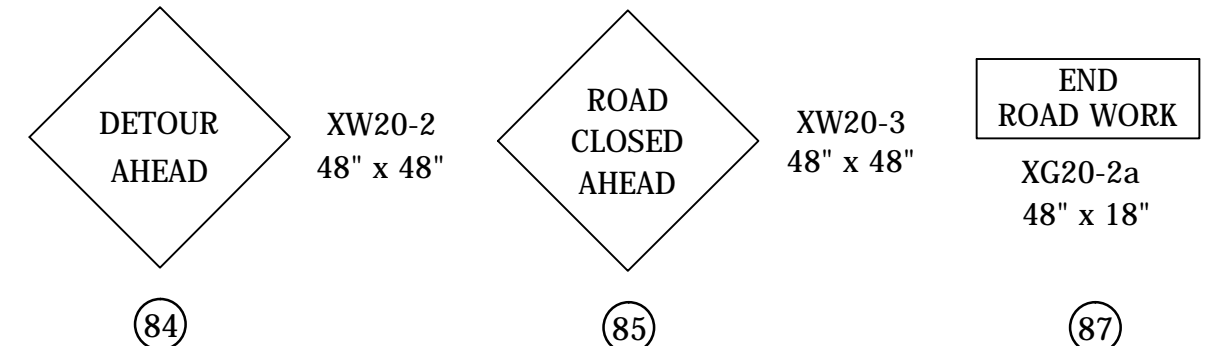
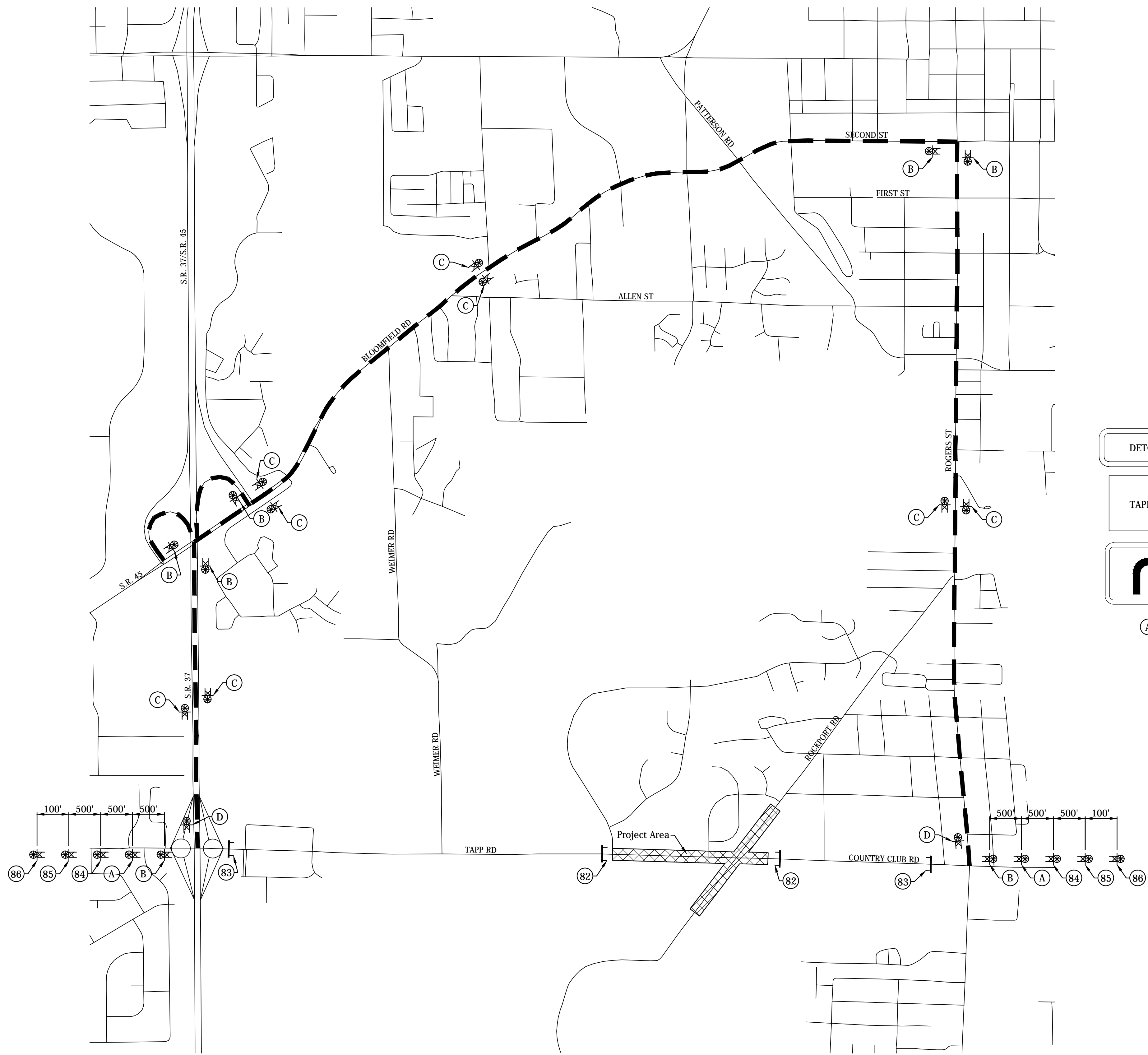
**NOT FOR  
CONSTRUCTION**  
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

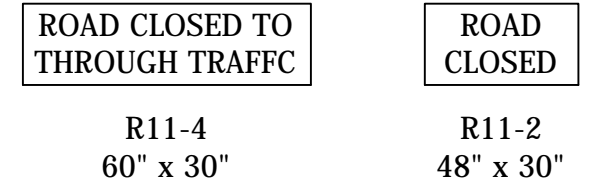
INDIANA  
DEPARTMENT OF TRANSPORTATION

**PLAT NO. 1**

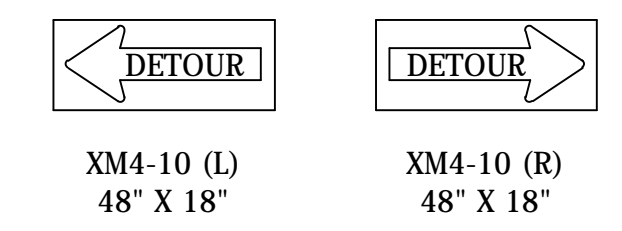
HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	---
VERTICAL SCALE	DESIGNATION
	0901730
SURVEY BOOK	SHEETS
---	7 of 53
CONTRACT	PROJECT
R-36022	090173000



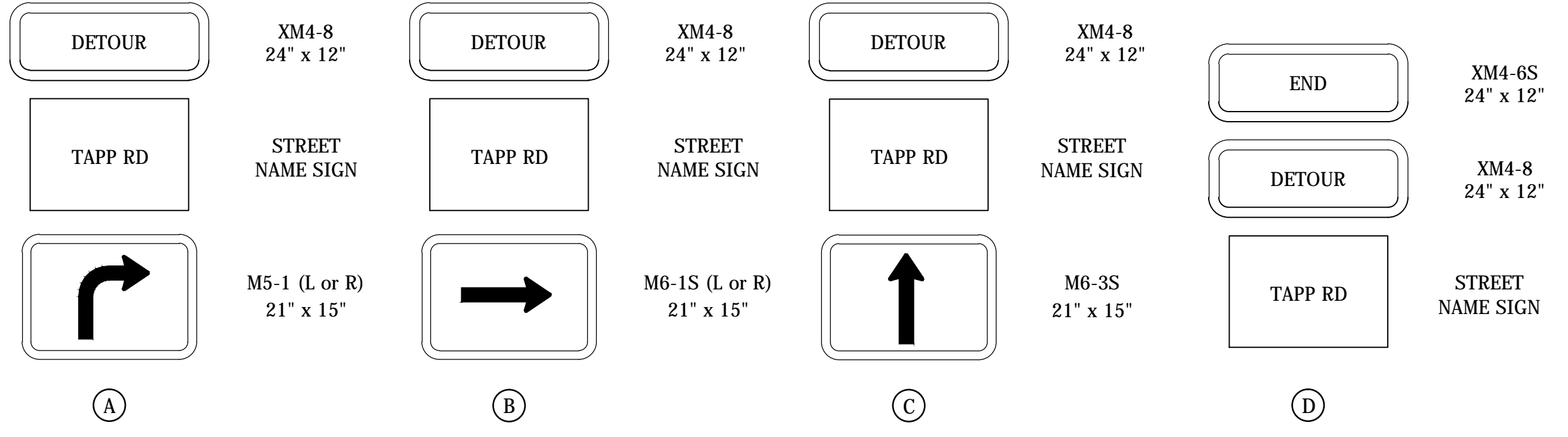
**CONSTRUCTION SIGNS, TYPE "A"**



**ROAD CLOSURE SIGN ASSEMBLIES**



**CONSTRUCTION SIGNS, TYPE "B"**



**DETOUR ROUTE MARKER ASSEMBLY**

- NOTES**
- All Signs, Barricades, And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2011 And Any Current Supplements Thereto.
  - Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
  - For Rockport Road Detour and Road Closure, See Sheet No. 9

- LEGEND**
- (82) Road Closure Sign Assembly With Type III-A Barricade R11-2
  - (83) Road Closure Sign Assembly With Type III-B Barricade R11-4
  - (84) XW20-2 "DETOUR AHEAD" Sign
  - (85) XW20-3 "ROAD CLOSED AHEAD" Sign
  - (86) XW2-6a
  - (A) Advance Turn Detour Route Marker Assembly
  - (B) Directional Detour Route Marker Assembly
  - (C) Confirming Detour Route Marker Assembly
  - (D) End Detour Route Marker Assembly
  - ☉ Construction Sign
  - ☉ Type 'A' Construction Warning Light
  - ▬ Type III- Barricade
  - ▨ Area Under Construction

CONSTRUCTION SIGN SCHEDULE	
ITEM	TOTALS
TYPE 'A' SIGN	
R11-2	2 EACH
R11-4	2 EACH
XW20-2	2 EACH
XW20-3	2 EACH
TOTAL TYPE 'A' SIGN	8 EACH
TYPE 'C' SIGN	
XW2-6a	2 EACH
TOTAL TYPE 'C' SIGN	2 EACH
DETOUR ROUTE MARKER ASSEMBLY	16 EACH
ROAD CLOSURE SIGN ASSEMBLY	4 EACH
TYPE III-A BARRICADE	48 LFT
TYPE III-B BARRICADE	48 LFT

SIGN LEGEND		
SIGN	DESCRIPTION	SIZE (in x in)
R11-2	"ROAD CLOSED" Sign	48 x 30
R11-4	"ROAD CLOSED TO THRU TRAFFIC" Sign	48 x 30
XW2-6a	WORKSITE ADDED PENALTY SIGN	72 x 48
XW20-2	"DETOUR AHEAD" Sign	48 x 48
XW20-3	"ROAD CLOSED AHEAD" Sign	48 x 48

Date: Mar 09 2016 11:23am User ID: jhall  
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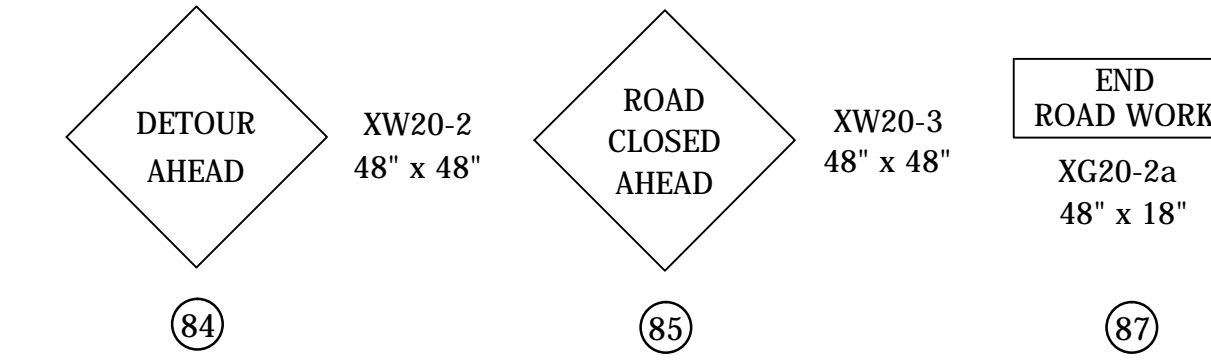
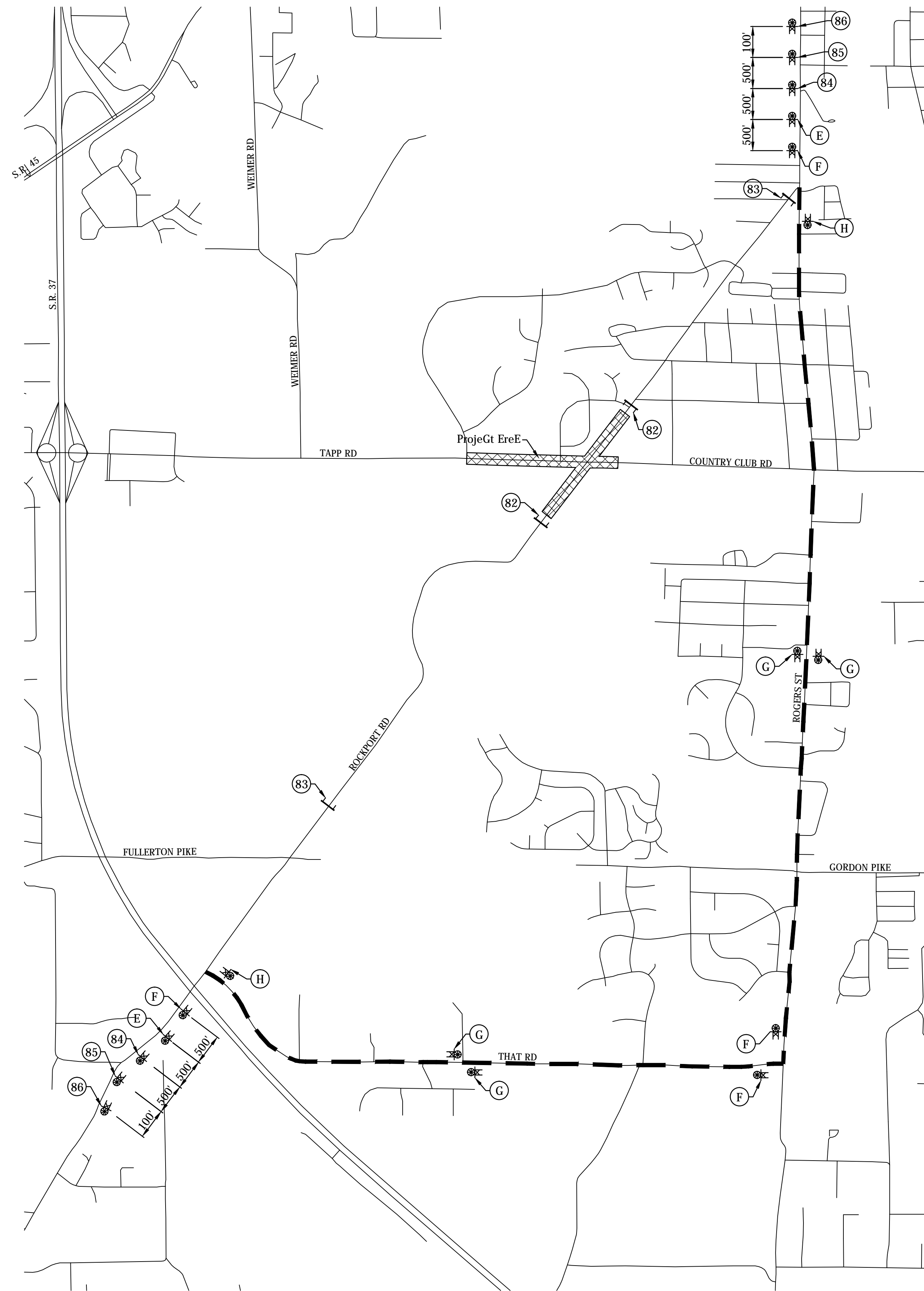
**NOT FOR CONSTRUCTION**  
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

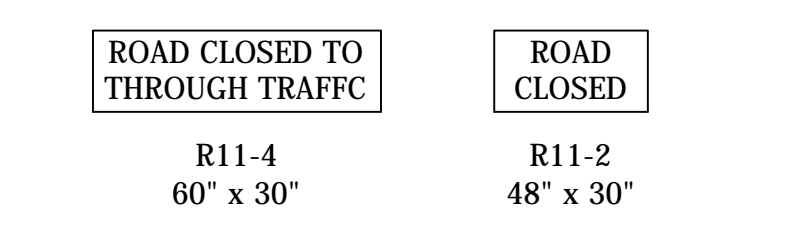
INDIANA DEPARTMENT OF TRANSPORTATION  
**MAINTENANCE OF TRAFFIC  
DETOUR MAP - TAPP ROAD**

HORIZONTAL SCALE	BRIDGE FILE
NOT TO SCALE	---
VERTICAL SCALE	DESIGNATION
	0901730
SURVEY BOOK	SHEETS
---	8 of 53
CONTRACT	PROJECT
R-36022	090173000

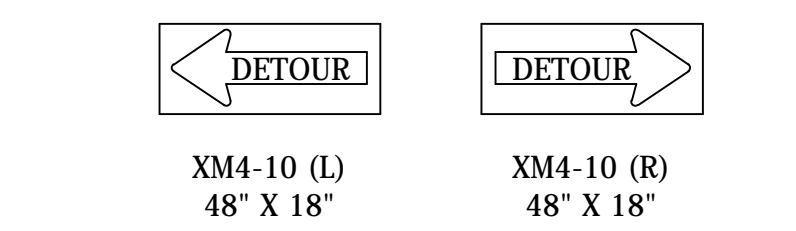




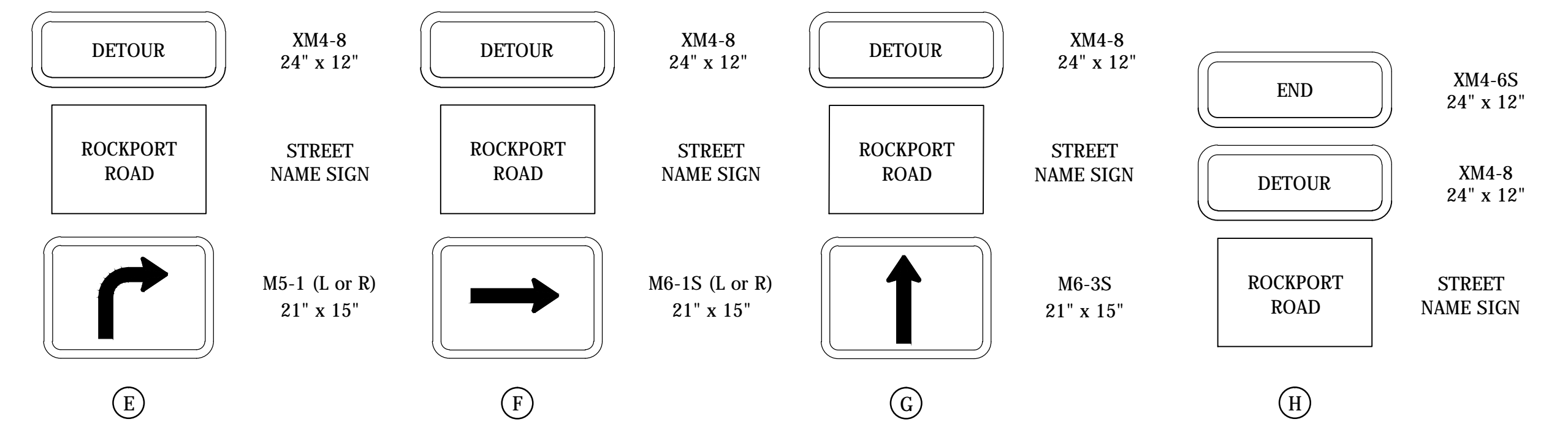
**CONSTRUCTION SIGNS, TYPE "A"**



**ROAD CLOSURE SIGN ASSEMBLIES**



**CONSTRUCTION SIGNS, TYPE "B"**



**DETOUR ROUTE MARKER ASSEMBLY**

**NOTES**

- All Signs, Barricades, And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2011 And Any Current Supplements Thereto.
- Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
- For Tapp Road Detour and Road Closure. See Sheet No. 8

**LEGEND**

- (82) Road Closure Sign Assembly With Type III-A Barricade R11-2
- (83) Road Closure Sign Assembly With Type III-B Barricade R11-4
- (84) XW20-2 "DETOUR AHEAD" Sign
- (85) XW20-3 "ROAD CLOSED AHEAD" Sign
- (86) XW2-6a
- (E) Advance Turn Detour Route Marker Assembly
- (F) Directional Detour Route Marker Assembly
- (G) Confirming Detour Route Marker Assembly
- (H) End Detour Route Marker Assembly
- ☉ Construction Sign
- ☉ Type 'A' Construction Warning Light
- ▬ Type III- Barricade
- ▨ Area Under Construction

**CONSTRUCTION SIGN SCHEDULE**

ITEM	TOTALS
TYPE 'A' SIGN	
R11-2	2 EACH
R11-4	3 EACH
XW20-2	2 EACH
XW20-3	2 EACH
TOTAL TYPE 'A' SIGN	9 EACH
TYPE 'C' SIGN	
XW2-6a	2 EACH
TOTAL TYPE 'C' SIGN	2 EACH
DETOUR ROUTE MARKER ASSEMBLY	8 EACH
ROAD CLOSURE SIGN ASSEMBLY	5 EACH
TYPE III-A BARRICADE	48 LFT
TYPE III-B BARRICADE	72 LFT

**SIGN LEGEND**

SIGN	DESCRIPTION	SIZE (in x in)
R11-2	"ROAD CLOSED" Sign	48 x 30
R11-4	"ROAD CLOSED TO THRU TRAFFIC" Sign	48 x 30
XW2-6a	WORKSITE ADDED PENALTY SIGN	72 x 48
XW20-2	"DETOUR AHEAD" Sign	48 x 48
XW20-3	"ROAD CLOSED AHEAD" Sign	48 x 48

Date: Mar 09 2016 11:23am User ID: jhall  
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DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
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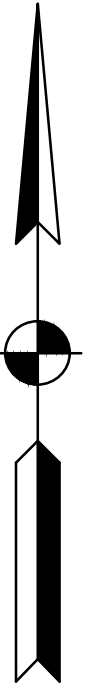
INDIANA DEPARTMENT OF TRANSPORTATION  
**MAINTENANCE OF TRAFFIC  
DETOUR MAP - ROCKPORT ROAD**

HORIZONTAL SCALE	BRIDGE FILE
NOT TO SCALE	---
VERTICAL SCALE	DESIGNATION
	0901730
SURVEY BOOK	SHEETS
---	9 of 53
CONTRACT	PROJECT
R-36022	090173000





NOTE TO REVIEWER:  
PEDESTRIAN DETOUR SIGNING TO  
BE ADDED AT STAGE 3 SUBMITTAL



Date: Mar 09 2016 11:23am User ID: jhall  
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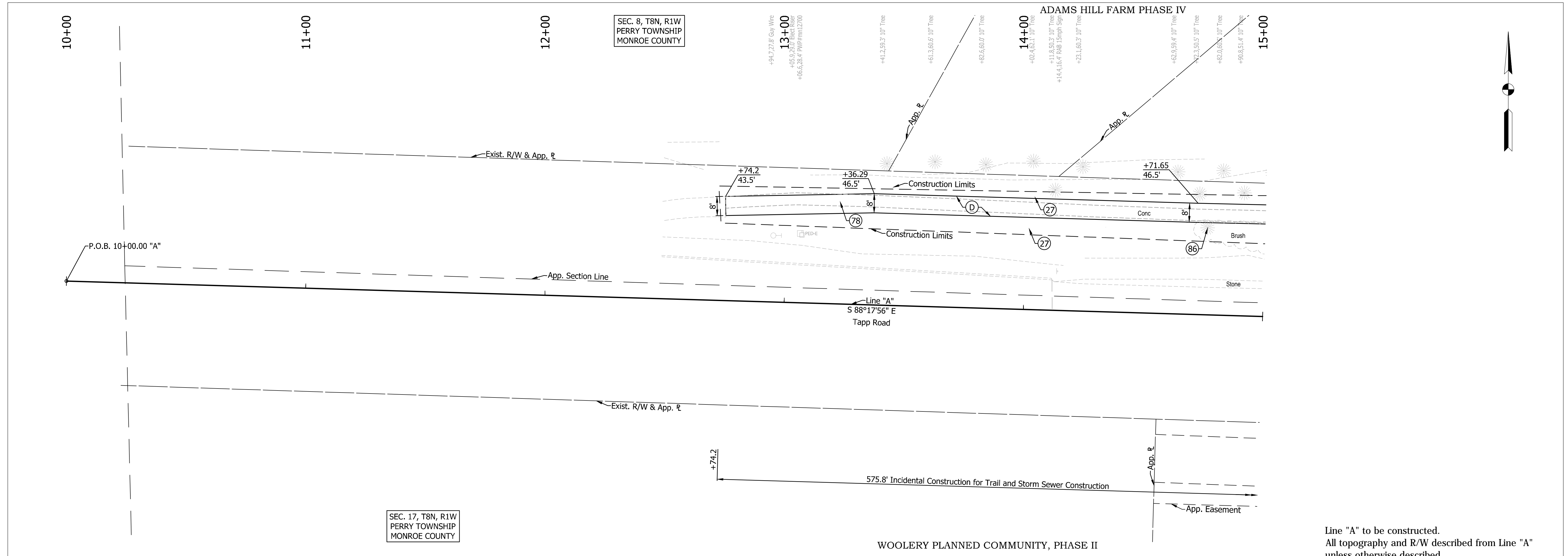
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CONSTRUCTION  
DLZ INDIANA, LLC

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DESIGNED: _____ FS _____	DRAWN: _____ DPH _____	
CHECKED: _____ ADM _____	CHECKED: _____ FS _____	

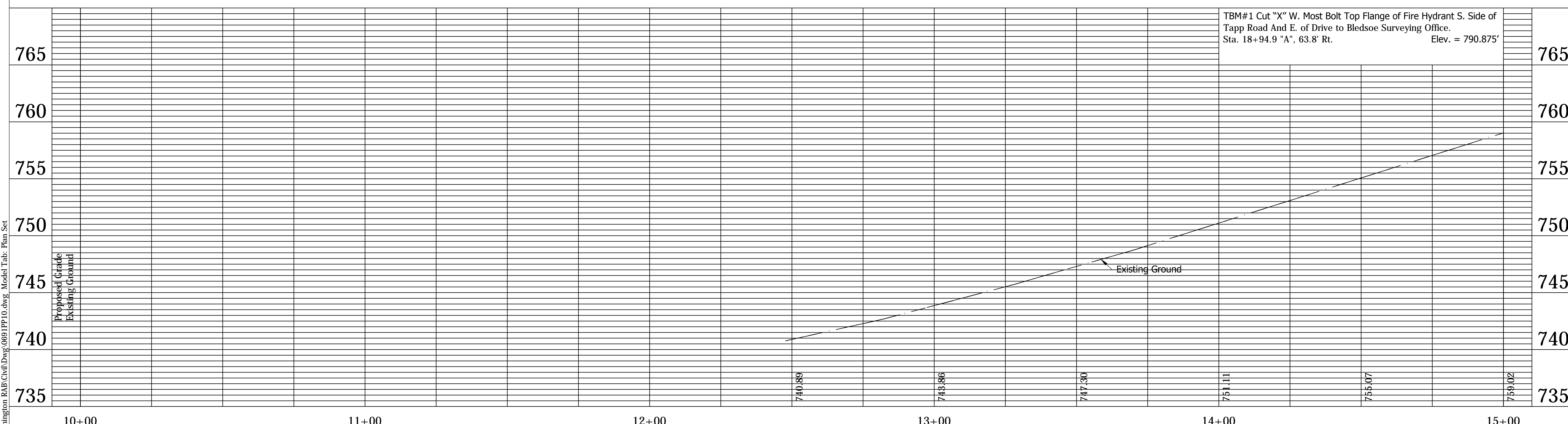
INDIANA  
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC  
DETOUR MAP - PEDESTRIAN

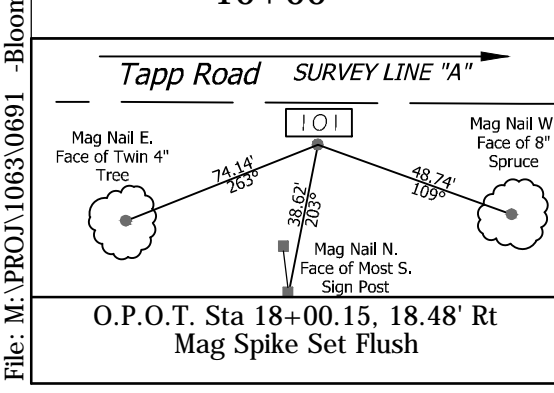
HORIZONTAL SCALE	BRIDGE FILE
NOT TO SCALE	---
VERTICAL SCALE	DESIGNATION
	0901730
SURVEY BOOK	SHEETS
---	10 of 53
CONTRACT	PROJECT
R-36022	090173000



Line "A" to be constructed.  
All topography and R/W described from Line "A"  
unless otherwise described



LEGEND	
(2)	Retaining Wall
(3)	Pedestrian Railing
(14)	Concrete Curb
(15)	Combined Concrete Curb and Gutter
(26)	Nursery Sodding
(27)	Seed Mixture, U
(7)	Fence, Remove
(78)	Sidewalk, Remove
(86)	Tree, Do Not Disturb
(B)	Mainline Pavement Section 165#/SYD QC/QA-HMA, 3, 70, Surface, 9.5 mm, on 275#/SYD QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on 440#/SYD QC/QA-HMA, 3, 64, Base, 25.0 mm, on 3" Compacted Aggregate, Base, No. 53, on Subgrade Treatment, Type IB
(C)	PCCP for Approaches, 9", on Subgrade Treatment, Type III
(D)	HMA for Sidewalk to be: 140#/SYD HMA, Type A, on 220#/SYD HMA, Type A, on 6" Compacted Aggregate Base, No. 53, on Subgrade Treatment, Type III
(E)	PCCP for Approaches, 6", on Subgrade Treatment, Type III
(F)	Concrete Sidewalk, 4"



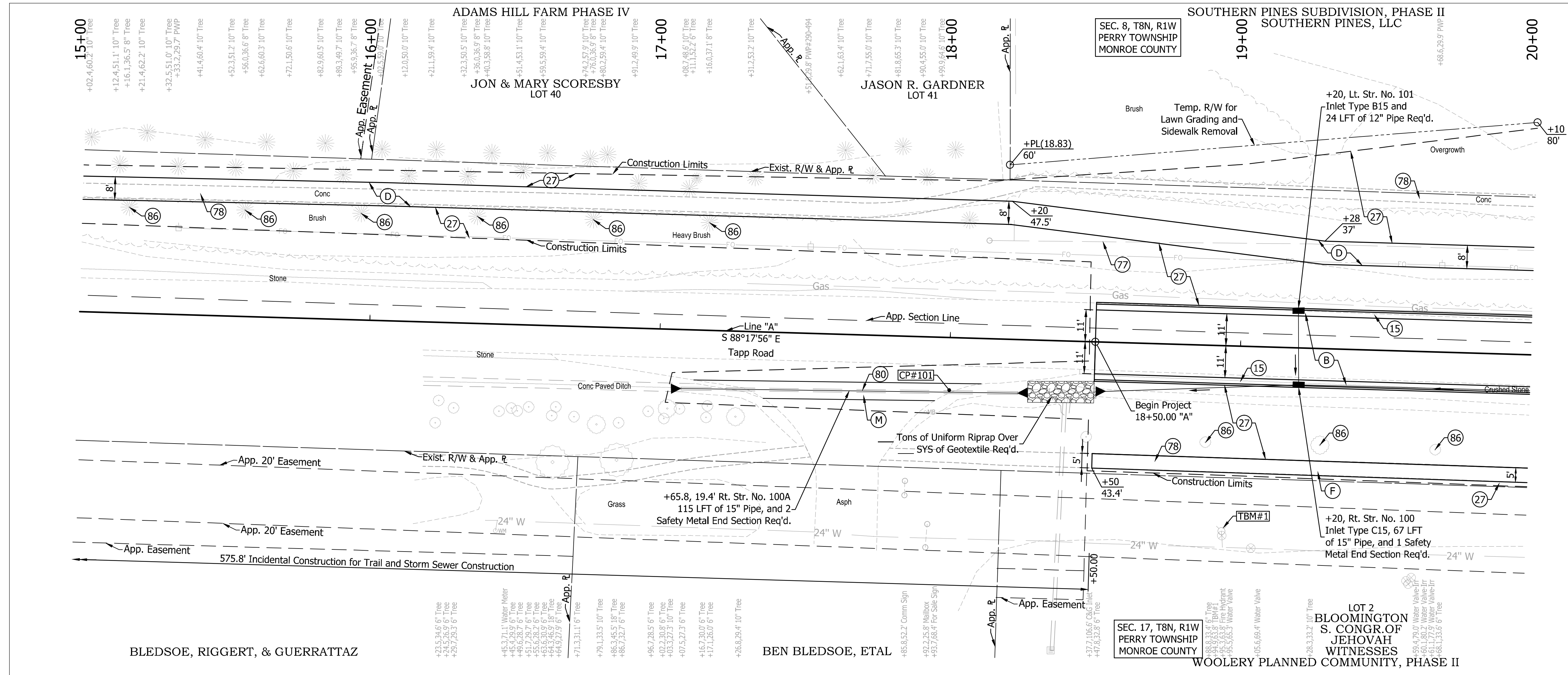
**NOT FOR CONSTRUCTION**  
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

INDIANA DEPARTMENT OF TRANSPORTATION  
**PLAN AND PROFILE**  
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	11 of 53
CONTRACT	PROJECT
R-36022	090173000

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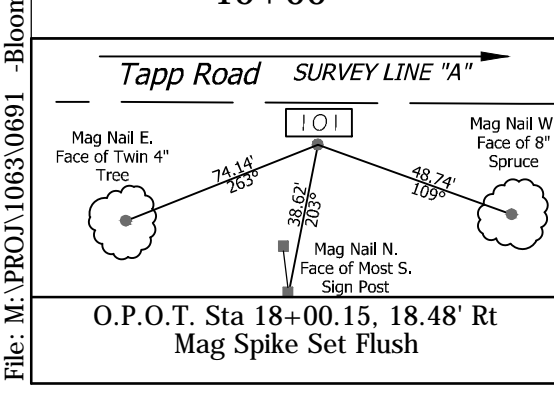
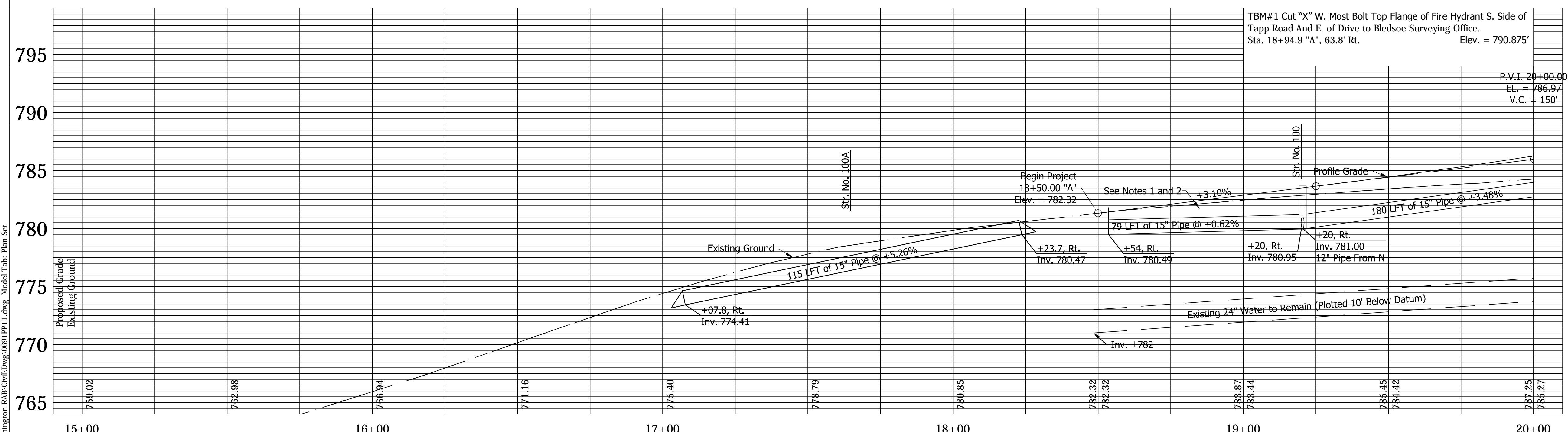


- NOTES**
- Existing 24" Water Line to Remain
  - Elevations Taken From Black & Veatch As-Built Information - Proj. No. 25188 W. Bloomington Water System Improvements September 1998

Line "A" to be constructed.  
All topography and R/W described from Line "A" unless otherwise described

**LEGEND**

(3)	Pedestrian Railing
(14)	Concrete Curb
(15)	Combined Concrete Curb and Gutter
(26)	Nursery Sodding
(27)	Seed Mixture, U
(77)	Fence, Remove
(78)	Sidewalk, Remove
(79)	Landscaping Sign, Remove
(80)	Pipe, Remove
(81)	Inlet, Remove
(86)	Tree, Do Not Disturb
(B)	Mainline Pavement Section 165#/SYD QC/QA-HMA, 3, 70, Surface, 9.5 mm, on 275#/SYD QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on 440#/SYD QC/QA-HMA, 3, 64, Base, 25.0 mm, on 3" Compacted Aggregate, Base, No. 53, on Subgrade Treatment, Type IB
(C)	PCCP for Approaches, 9', on Subgrade Treatment, Type III
(D)	HMA for Sidewalk to be: 140#/SYD HMA, Type A, on 220#/SYD HMA, Type A, on 6" Compacted Aggregate Base, No. 53, on Subgrade Treatment, Type III
(E)	PCCP for Approaches, 6', on Subgrade Treatment, Type III
(F)	Concrete Sidewalk, 4"
(M)	HMA for Approaches to be: 165#/SYD HMA Surface, Type B, on 275#/SYD HMA Intermediate, Type B, on 880#/SYD HMA Base, Type B, on Subgrade Treatment, Type III



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DLZ INDIANA, LLC

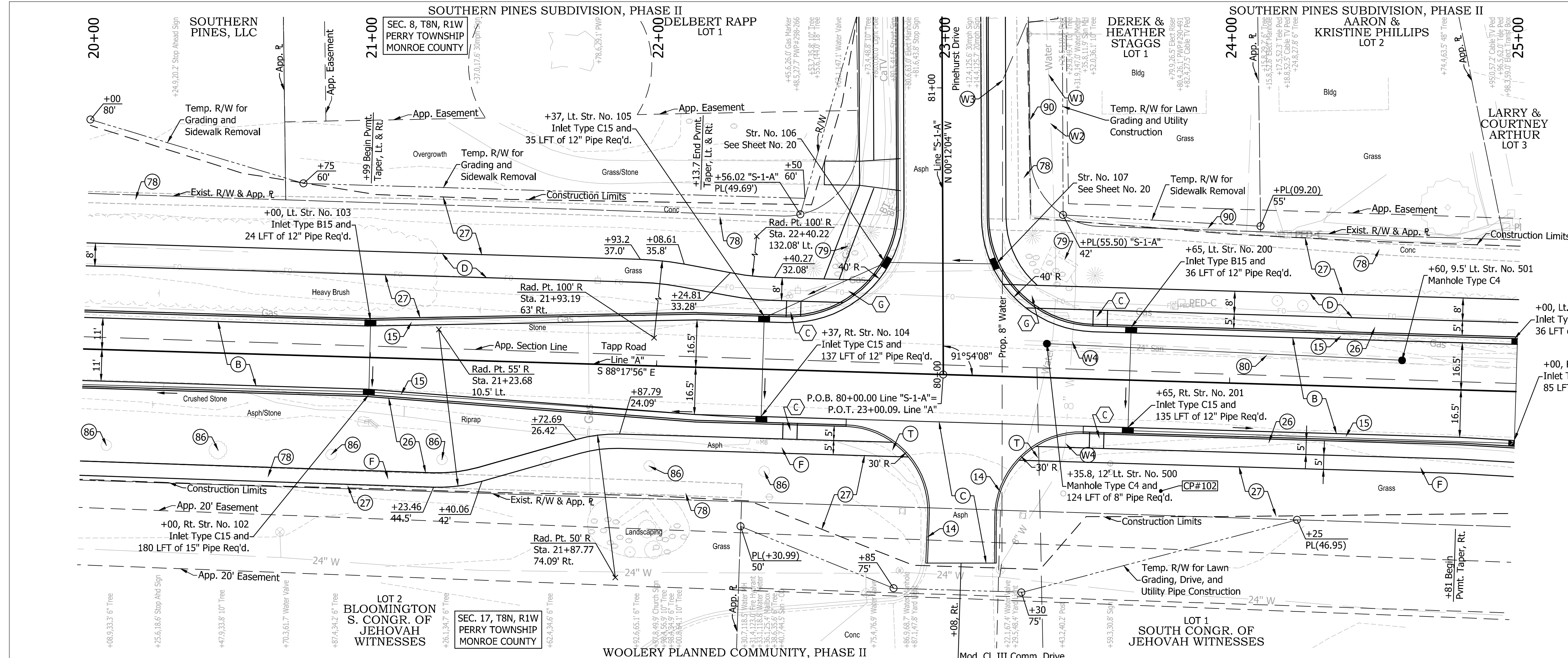
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

INDIANA DEPARTMENT OF TRANSPORTATION  
**PLAN AND PROFILE**  
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	12 of 53
CONTRACT	PROJECT
R-36022	090173000

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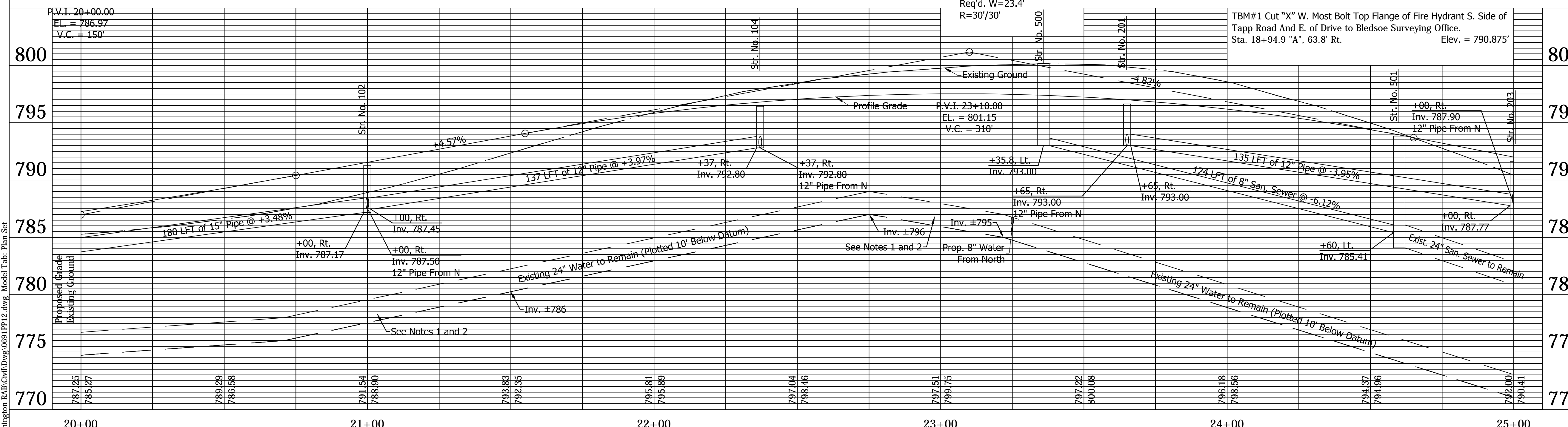




- NOTES**
- Existing 24" Water Line to Remain
  - Elevations Taken From Black & Veatch As-Built Information - Proj. No. 25188 W. Bloomington Water System Improvements September 1998

Line "A" to be constructed.  
All topography and R/W described from Line "A" unless otherwise described

LEGEND	
(3)	Pedestrian Railing
(14)	Concrete Curb
(15)	Combined Concrete Curb and Gutter
(26)	Nursery Sodding
(27)	Seed Mixture, U
(77)	Fence, Remove
(78)	Sidewalk, Remove
(79)	Landscaping Sign, Remove
(80)	Pipe, Remove
(86)	Tree, Do Not Disturb
(90)	Fence, Do Not Disturb
(B)	Mainline Pavement Section 165#/SYD QC/QA-HMA, 3, 70, Surface, 9.5 mm, on 275#/SYD QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on 440#/SYD QC/QA-HMA, 3, 64, Base, 25.0 mm, on 3" Compacted Aggregate, Base, No. 53, on Subgrade Treatment, Type IB
(C)	PCCP for Approaches, 9", on Subgrade Treatment, Type III
(D)	HMA for Sidewalk to be: 140#/SYD HMA, Type A, on 220#/SYD HMA, Type A, on 6" Compacted Aggregate Base, No. 53, on Subgrade Treatment, Type III
(E)	PCCP for Approaches, 6", on Subgrade Treatment, Type III
(F)	Concrete Sidewalk, 4"
(T)	Sidewalk Transition
(W1)	8" Water Line to be Removed
(W2)	Existing Water Valve, to be Removed
(W3)	Approx. Location 22.5" Fitting
(W4)	Reconnect Sanitary Lateral - Contractor to Field Determine Exact Location of Lateral
(W5)	Existing Water Valve
(-)	Curb Ramp, Type _ (Letter Denotes Type)



Date: Mar 09, 2016, 11:25am User ID: hll  
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 SURVEY  
 Tapp Road  
 N.E. Cor Brk Lamp Post  
 Bynum Fango Cap'd Rebar  
 O.P.O.T. Sta 23+77.16 "A", 38.32 Rt RCAP Set Flush



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 DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

INDIANA DEPARTMENT OF TRANSPORTATION  
 PLAN AND PROFILE  
 LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	13 of 53
CONTRACT	PROJECT
R-36022	090173000

25+00

+42.6,86.6' Tree  
+54.3,40.1' 10" Tree  
+60.5,39.6' 10" Tree

26+00  
+48.9,27.7' PWP  
+44.0,33.7' Stop Sign  
+94.1,7.3' San MH  
+96.5,51.5' Tree

+00.3,57.4' Back MH  
+03.2,24.7' Guy Wire  
+03.9,24.8' Guy Wire  
+26.2,23.3' Guy Wire  
+28.6,21.1' PWP  
+31.7,23.5' Tele MH  
+32.5,12.1' Tree

+47.2,20.6' Stop Sign

+70.7,104.4' Cable TV Ped

27+00  
+03.8,11.6' Stop Sign  
+12.9,61.1' 30mph Sign  
+17.1,8.8' Gas Marker

+33.4,78.3' 30" Tree

+52.7,111.7' Guy Wire  
+58.0,119.5' PWP  
+58.4,13.4' Guy Wire  
+61.0,10.5' PWP  
+62.1,118.3' PWP  
+65.5,118.1' 18" Tree  
+66.0,91.1' 18" Tree  
+69.1,11.9' Tree  
+75.9,42.3' 18" Tree  
+78.1,13.4' Guy Wire

28+00  
+08.0,60.7' Tree

+56.5,10.6' C&G Inlet

+90.0,16.2' Tele Pole

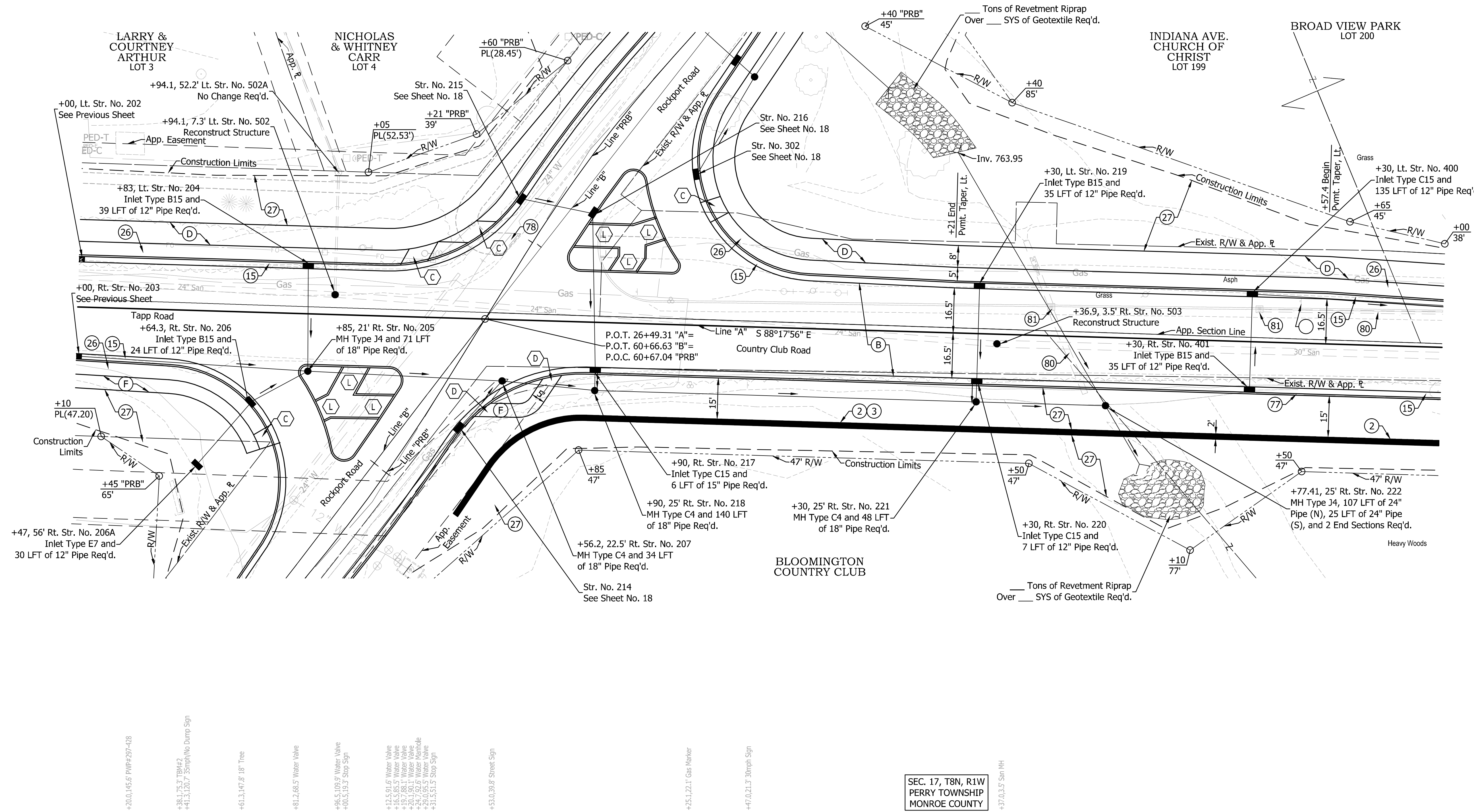
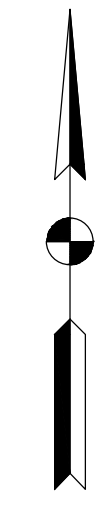
29+00

+32.8,12.0' C&G Inlet

+47.0,15.4' Trail Sign

30+00

SEC. 8, T8N, R1W  
PERRY TOWNSHIP  
MONROE COUNTY



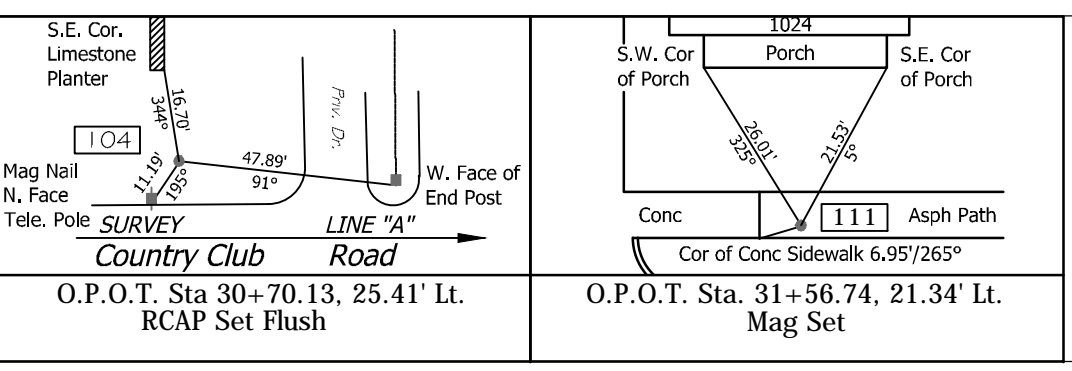
- NOTES**
- Existing 24" Water Line to Remain.
  - Elevations Taken From Black & Veatch As-Built Information - Proj. No. 25188 W. Bloomington Water System Improvements September 1998.
  - For Line "B1" and Line "PRB" Geometrics, See Sheet No. 18.

Line "A" to be constructed.  
All topography and R/W described from Line "A" unless otherwise described

**LEGEND**

- (2) Retaining Wall
- (3) Pedestrian Railing
- (14) Concrete Curb
- (15) Combined Concrete Curb and Gutter
- (26) Nursery Sodding
- (27) Seed Mixture, U
- (77) Fence, Remove
- (78) Sidewalk, Remove
- (79) Landscaping Sign, Remove
- (80) Pipe, Remove
- (81) Inlet, Remove
- (B) Mainline Pavement Section  
165#/SYD QC/QA-HMA, 3, 70, Surface, 9.5 mm, on 275#/SYD QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on 440#/SYD QC/QA-HMA, 3, 64, Base, 25.0 mm, on 3" Compacted Aggregate, Base, No. 53, on Subgrade Treatment, Type IB
- (C) PCCP for Approaches, 9", on Subgrade Treatment, Type III
- (D) HMA for Sidewalk to be:  
140#/SYD HMA, Type A, on 220#/SYD HMA, Type A, on 6" Compacted Aggregate Base, No. 53, on Subgrade Treatment, Type III
- (E) PCCP for Approaches, 6", on Subgrade Treatment, Type III
- (F) Concrete Sidewalk, 4"
- (T) Trail Transition

Date: Mar. 10, 2016, 11:15am User ID: jhall  
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DLZ INDIANA, LLC

SEC. 17, T8N, R1W  
PERRY TOWNSHIP  
MONROE COUNTY

RECOMMENDED FOR APPROVAL \_\_\_\_\_ DESIGN ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED: \_\_\_\_\_ FS \_\_\_\_\_ DRAWN: \_\_\_\_\_ DPH \_\_\_\_\_

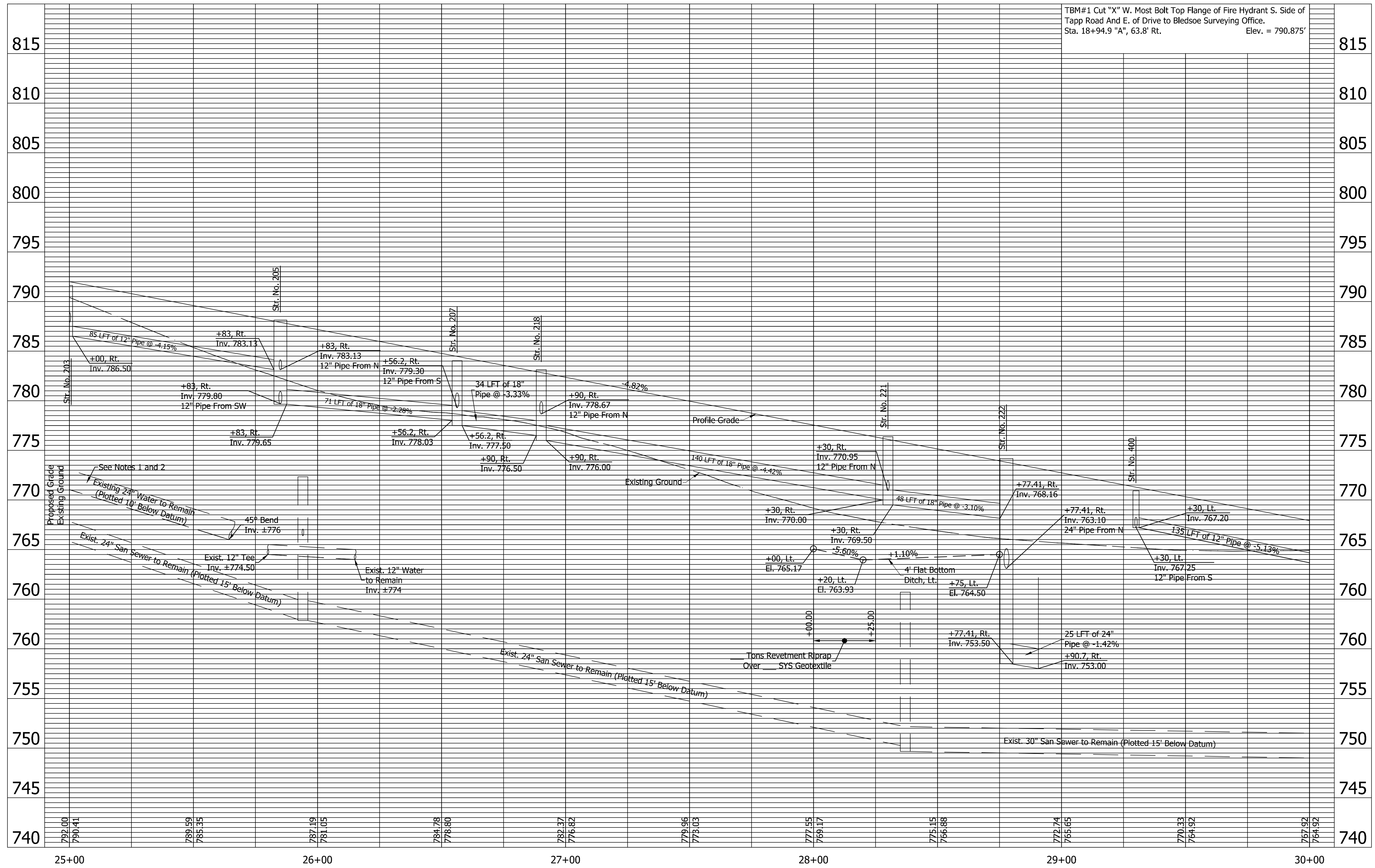
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INDIANA DEPARTMENT OF TRANSPORTATION

PLAN LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	---
VERTICAL SCALE	DESIGNATION
---	0901730
SURVEY BOOK	SHEETS
---	14 of 53
CONTRACT	PROJECT
R-36022	090173000





TBM#1 Cut "X" W. Most Bolt Top Flange of Fire Hydrant S. Side of Tapp Road And E. of Drive to Bledsoe Surveying Office. Sta. 18+94.9 "A", 63.8' Rt. Elev. = 790.875'

Date: Mar 09 2016 11:25am User ID: hlll  
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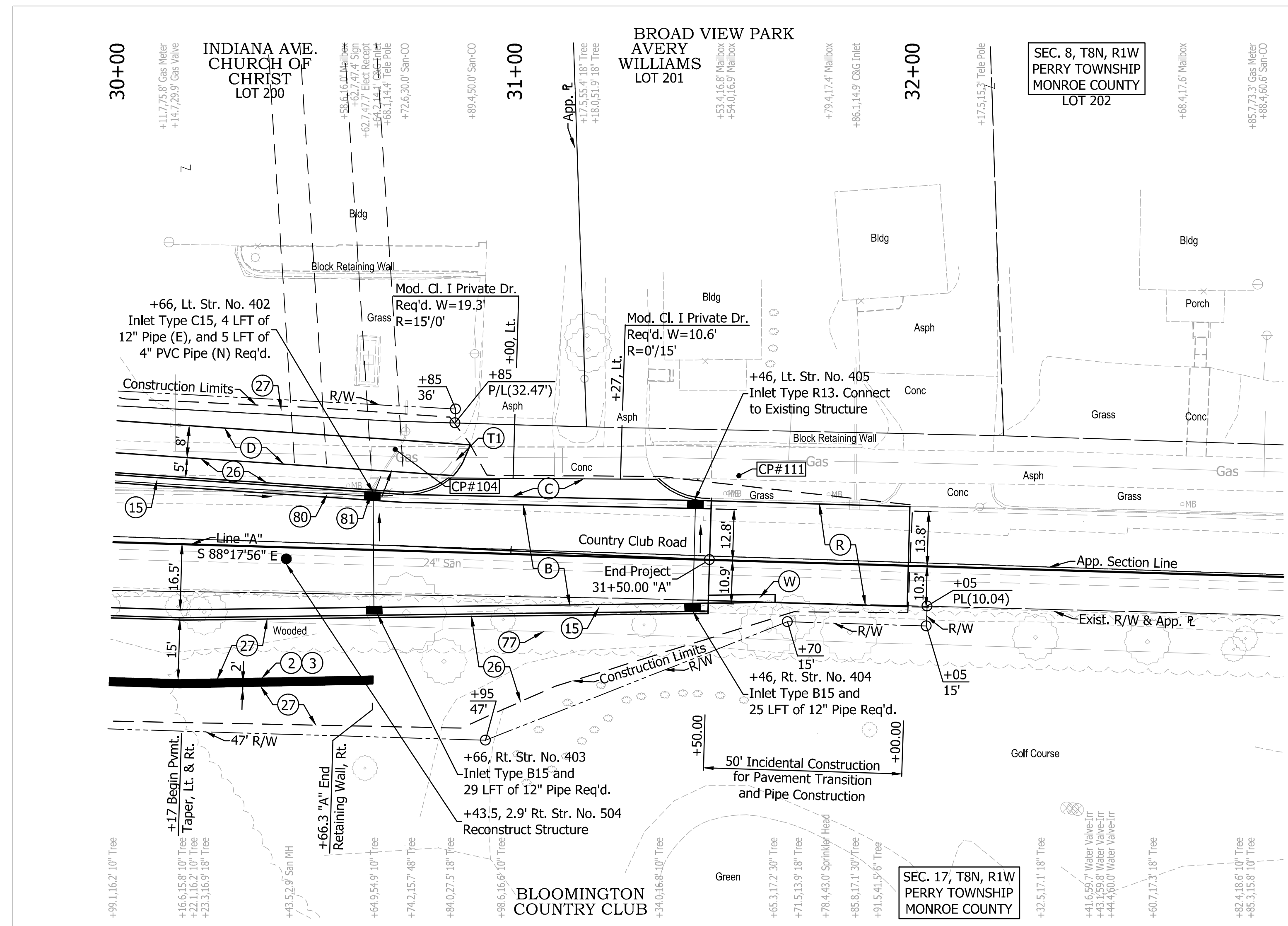
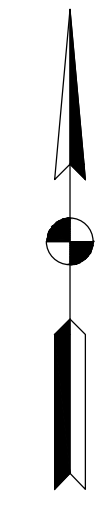
NOT FOR CONSTRUCTION  
 DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

INDIANA DEPARTMENT OF TRANSPORTATION

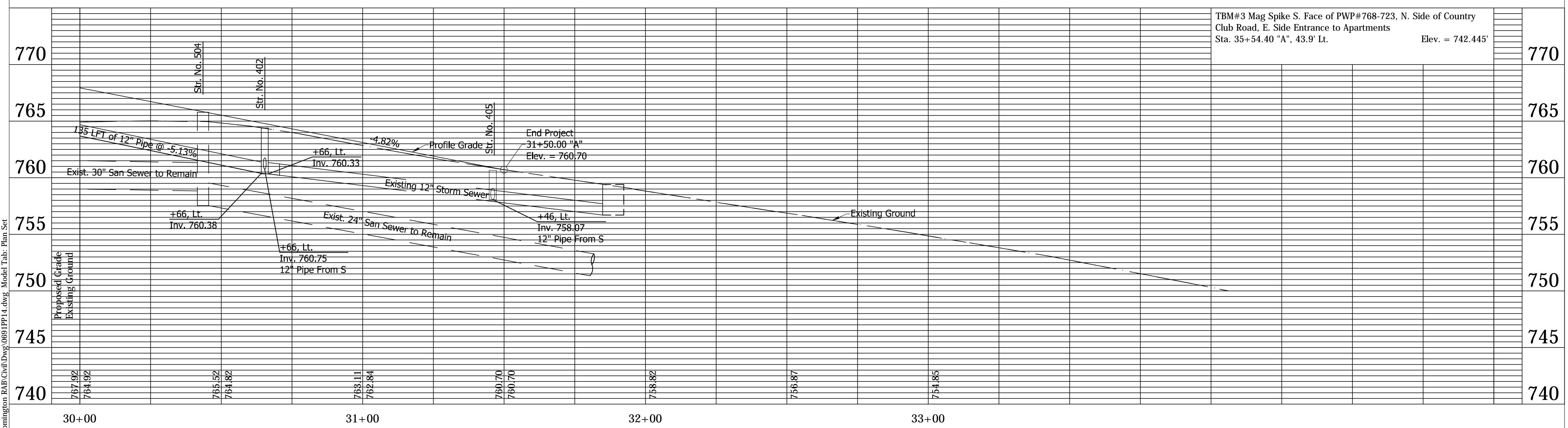
PROFILE LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	15 of 53
CONTRACT	PROJECT
R-36022	090173000

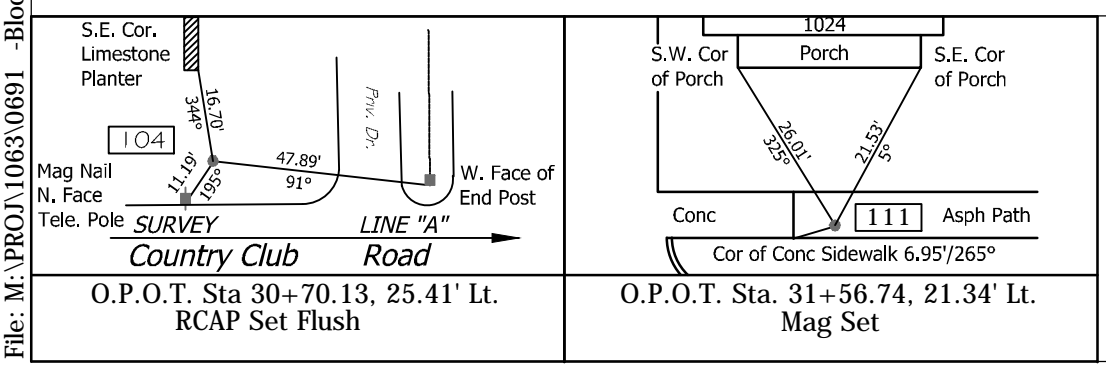


Line "A" to be constructed.  
All topography and R/W described from Line "A"  
unless otherwise described

LEGEND	
(2)	Retaining Wall
(3)	Pedestrian Railing
(14)	Concrete Curb
(15)	Combined Concrete Curb and Gutter
(17)	Combined Concrete Curb and Gutter Turnout
(26)	Nursery Sodding
(27)	Seed Mixture, U
(71)	Sidewalk, Remove
(77)	Fence, Remove
(80)	Pipe, Remove
(81)	Inlet, Remove
(B)	Mainline Pavement Section 165#/SYD QC/QA-HMA, 3, 70, Surface, 9.5 mm, on 275#/SYD QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on 440#/SYD QC/QA-HMA, 3, 64, Base, 25.0 mm, on 3" Compacted Aggregate, Base, No. 53, on Subgrade Treatment, Type IB
(C)	PCCP for Approaches, 9", on Subgrade Treatment, Type III
(D)	HMA for Sidewalk to be: 140#/SYD HMA, Type A, on 220#/SYD HMA, Type A, on 6" Compacted Aggregate, Base, No. 53, on Subgrade Treatment, Type III
(E)	PCCP for Approaches, 6", on Subgrade Treatment, Type III
(F)	Concrete Sidewalk, 4"
(M)	HMA for Approaches to be: 165#/SYD HMA Surface, Type B, on 275#/SYD HMA Intermediate, Type B, on 880#/SYD HMA Base, Type B, on Subgrade Treatment, Type III
(R)	165#/SYD QC/QA-HMA, 4, 70, Surface, 9.5 mm, on Variable Depth Milling
(T1)	Trail Transition
(W)	HMA for Pavement Widening to be: 165#/SYD QC/QA-HMA, 3, 70, Surface, 9.5 mm, on 275#/SYD QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on 440#/SYD QC/QA-HMA, 3, 64, Base, 25.0 mm, on 3" Compacted Aggregate, Base, No. 53, on Subgrade Treatment, Type IB



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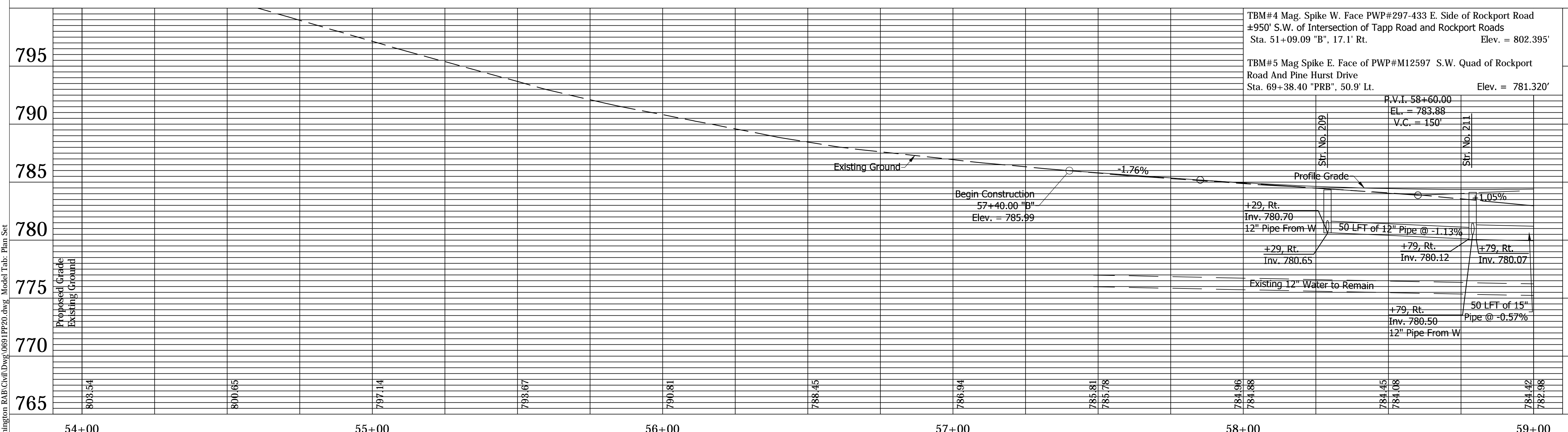
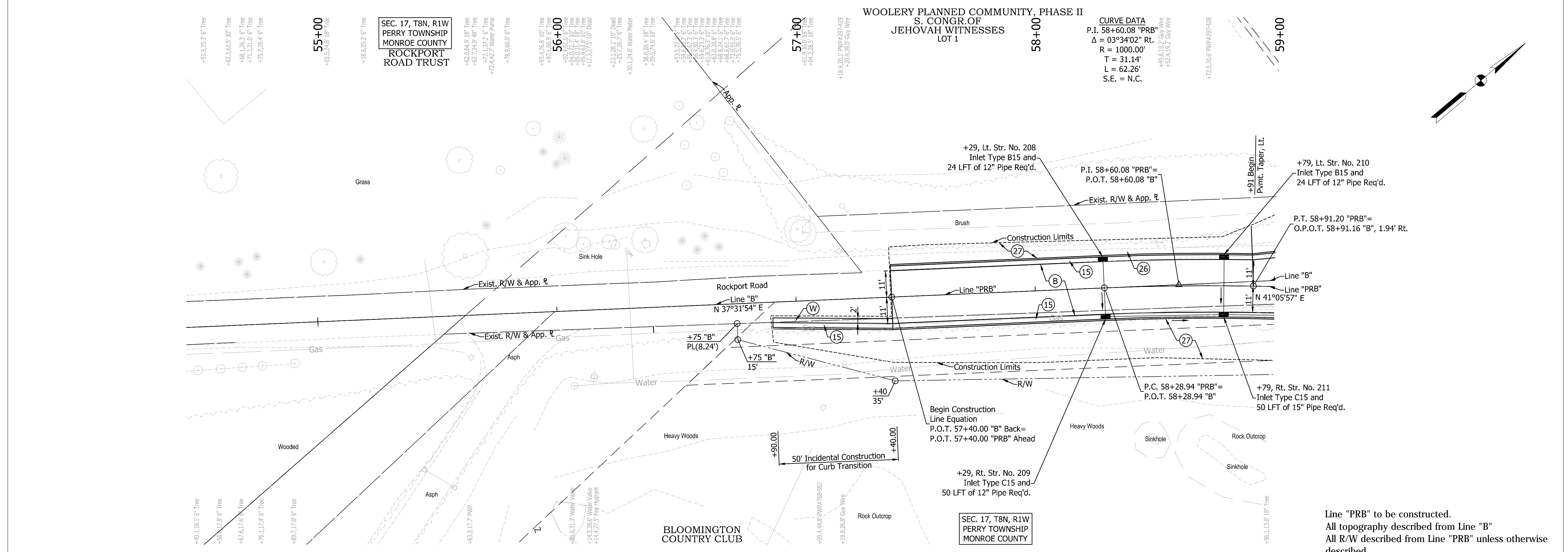
**NOT FOR CONSTRUCTION**  
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

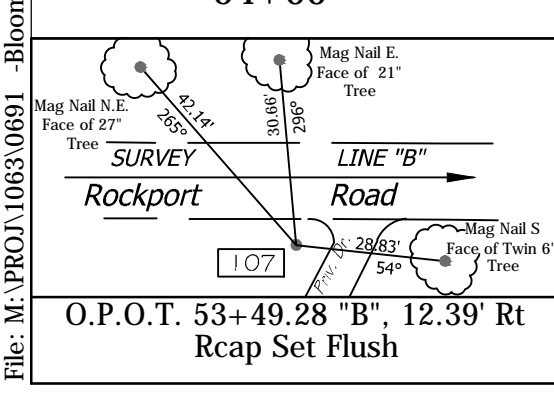
INDIANA  
DEPARTMENT OF TRANSPORTATION

**PLAN AND PROFILE  
LINE "A"**

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	16 of 53
CONTRACT	PROJECT
R-36022	090173000



LEGEND	
(2)	Retaining Wall
(14)	Concrete Curb
(15)	Combined Concrete Curb and Gutter
(26)	Nursery Sodding
(27)	Seed Mixture, U
(77)	Fence, Remove
(B)	Mainline Pavement Section 165#/SYD QC/QA-HMA, 3, 70, Surface, 9.5 mm, on 275#/SYD QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on 440#/SYD QC/QA-HMA, 3, 64, Base, 25.0 mm, on 3" Compacted Aggregate, Base, No. 53, on Subgrade Treatment, Type IB
(C)	PCCP for Approaches, 9", on Subgrade Treatment, Type III
(D)	HMA for Sidewalk to be: 140#/SYD HMA, Type A, on 220#/SYD HMA, Type A, on 6" Compacted Aggregate Base, No. 53, on Subgrade Treatment, Type III
(E)	PCCP for Approaches, 6", on Subgrade Treatment, Type III
(F)	Concrete Sidewalk, 4"
(W)	HMA for Pavement Widening to be: 165#/SYD QC/QA-HMA, 3, 70, Surface, 9.5 mm, on 275#/SYD QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on 440#/SYD QC/QA-HMA, 3, 64, Base, 25.0 mm, on 3" Compacted Aggregate, Base, No. 53, on Subgrade Treatment, Type IB



Proposed Grade	Existing Ground
795	795
790	790
785	785
780	780
775	775
770	770
765	765
54+00	59+00

**DLZ**

NOT FOR CONSTRUCTION

DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

INDIANA DEPARTMENT OF TRANSPORTATION

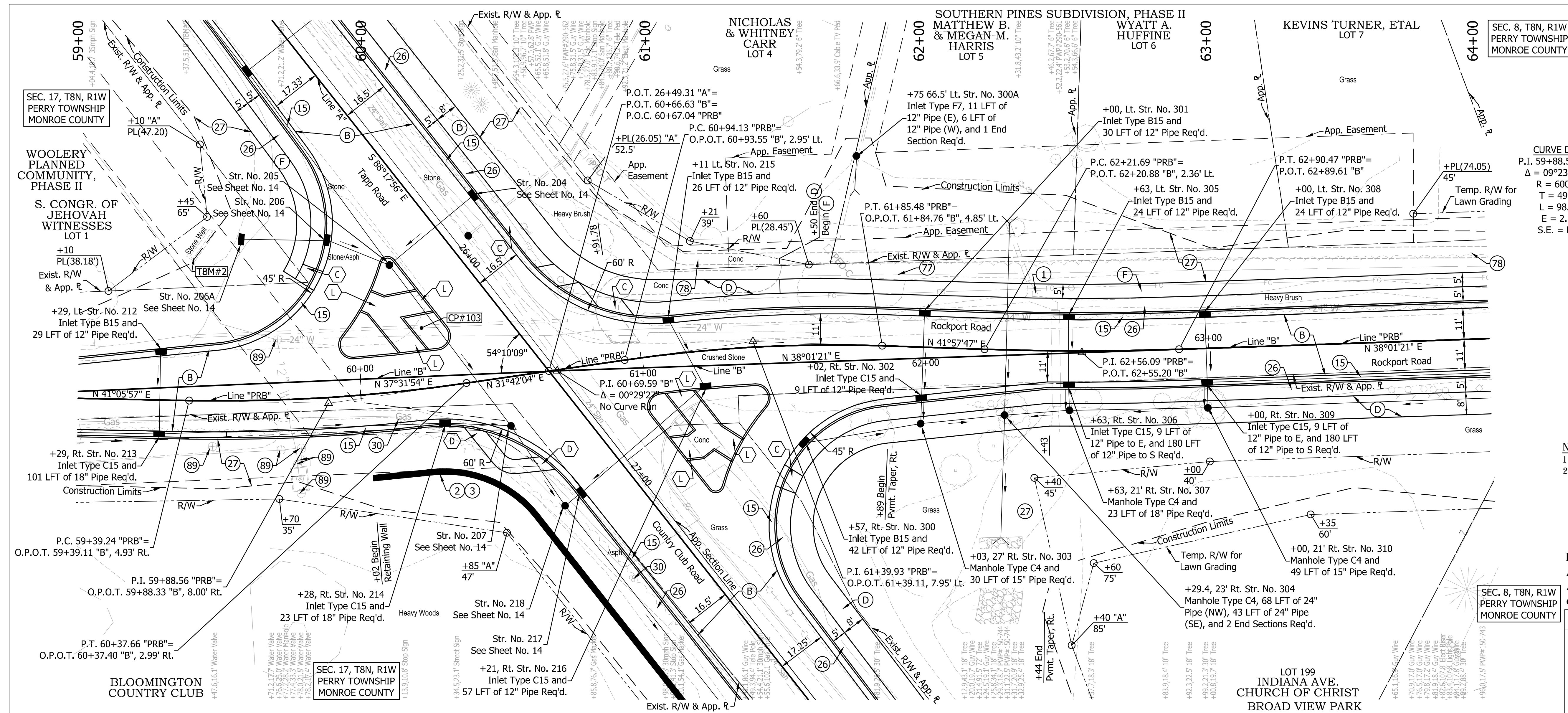
PLAN AND PROFILE

LINE "PRB"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	17 of 53
CONTRACT	PROJECT
R-36022	090173000

Date: Mar 09 2016 11:26am User ID: hlll  
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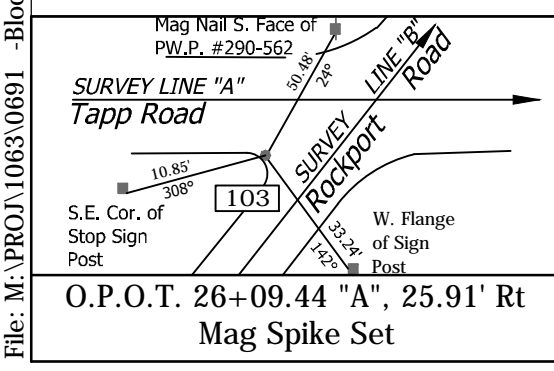
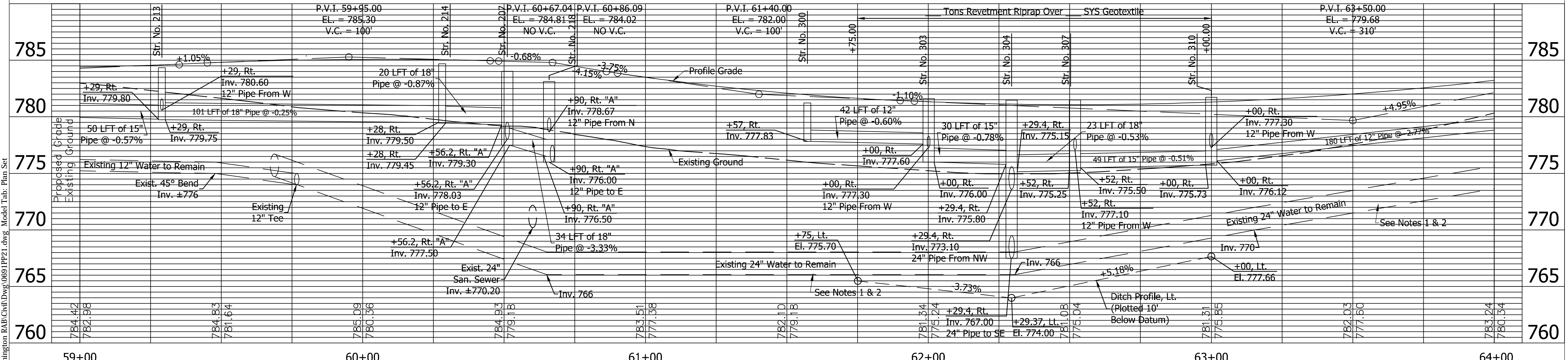


CURVE DATA	CURVE DATA	CURVE DATA
P.I. 59+88.56 "PRB" Δ = 09°23'53" Lt. R = 600.00' T = 49.32' L = 98.42' E = 2.02' S.E. = N.C.	P.I. 61+39.93 "PRB" Δ = 10°15'44" Rt. R = 510.00' T = 45.80' L = 91.35' E = 2.05' S.E. = N.C.	P.I. 62+56.09 "PRB" Δ = 03°56'27" Lt. R = 1000.00' T = 34.40' L = 68.78' E = 0.59' S.E. = N.C.

- NOTES**
- Existing 24" Water Line to Remain
  - Elevations Taken From Black & Veatch As-Built Information - Proj. No. 25188 W. Bloomington Water System Improvements September 1998

Line "PRB" to be constructed.  
All topography described from Line "B"  
All R/W described from Line "PRB" unless otherwise described

LEGEND	
(1)	Cap Existing Swallow Hole. For Detail, See Sheet No. 21
(2)	Retaining Wall
(3)	Pedestrian Railing
(4)	Concrete Curb
(5)	Combined Concrete Curb and Gutter
(6)	Nursery Sodding
(7)	Seed Mixture, U
(8)	Remove (by Others)
(9)	Fence, Remove
(10)	Sidewalk, Remove
(11)	Water Valve, Adjust to Grade
(B)	Mainline Pavement Section 165#/SYD QC/QA-HMA, 3, 70, Surface, 9.5 mm, on 275#/SYD QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on 440#/SYD QC/QA-HMA, 3, 64, Base, 25.0 mm, on 3" Compacted Aggregate, Base, No. 53, on Subgrade Treatment, Type IB
(C)	PCCP for Approaches, 9", on Subgrade Treatment, Type III
(D)	HMA for Sidewalk to be: 140#/SYD HMA, Type A, on 220#/SYD HMA, Type A, on 6" Compacted Aggregate Base, No. 53, on Subgrade Treatment, Type III
(E)	PCCP for Approaches, 6", on Subgrade Treatment, Type III
(F)	Concrete Sidewalk, 4"
(G)	Curb Ramp, Type _ (Letter Denotes Type)



TBM#2 Cut Square S.W. Corner of Limestone Base on Sign Wall at the S.W. Quad Of Tapp Road and Rockport Road.  
Sta. 59+40.50 "B", 46.1' Lt.  
Elev. = 784.580



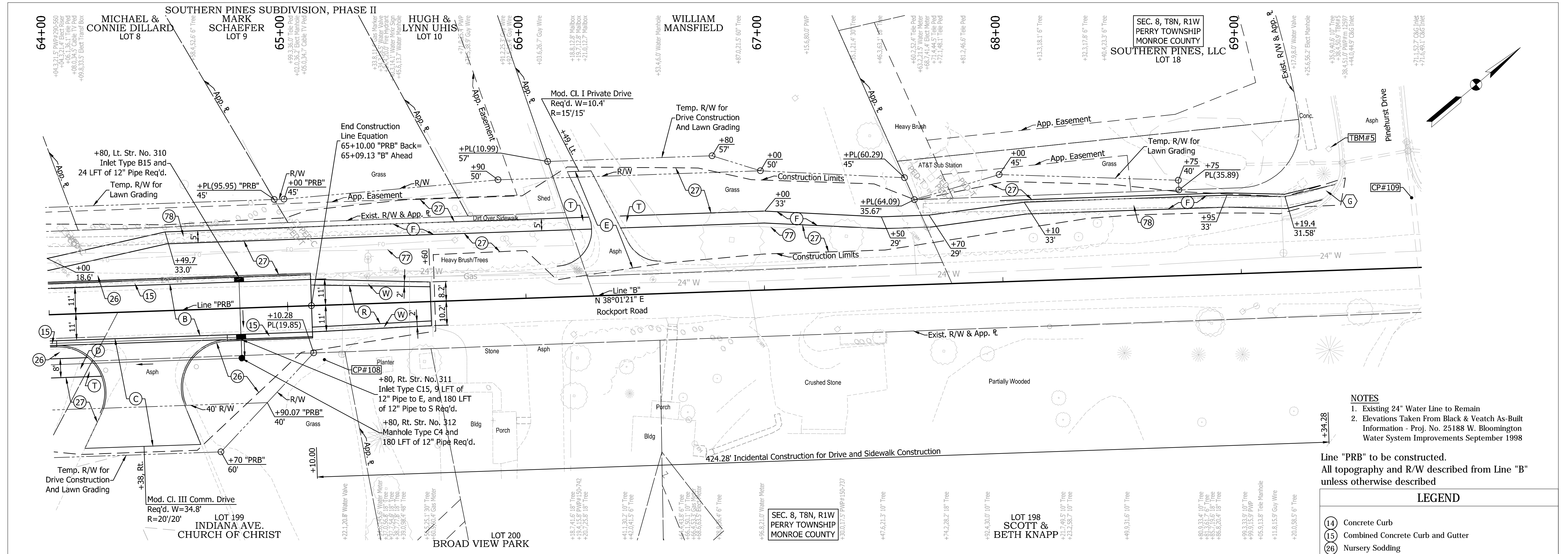
NOT FOR CONSTRUCTION  
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE
DESIGNED:	FS	DRAWN:	DPH	
CHECKED:	ADM	CHECKED:	FS	

INDIANA DEPARTMENT OF TRANSPORTATION  
PLAN AND PROFILE  
LINE "PRB"

HORIZONTAL SCALE		BRIDGE FILE	
1" = 20'			
VERTICAL SCALE		DESIGNATION	
1" = 5'			0901730
SURVEY BOOK		SHEETS	
		18	of 53
CONTRACT		PROJECT	
R-36022			090173000

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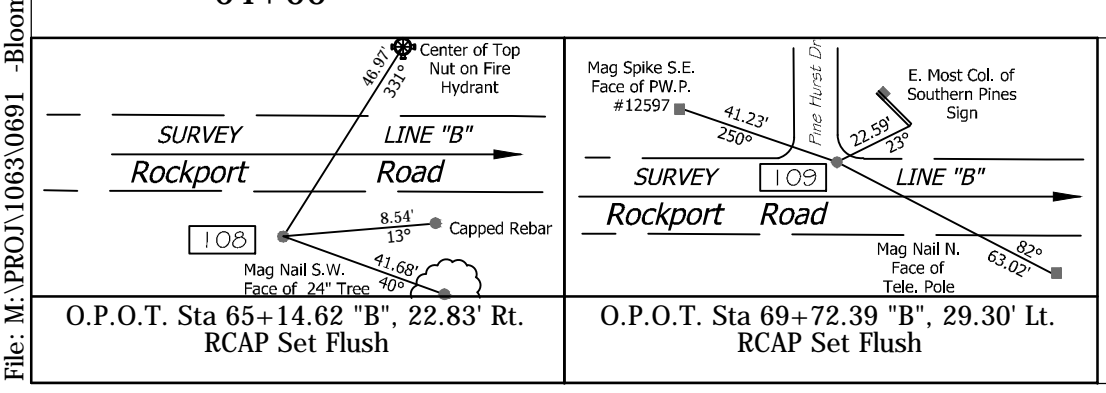
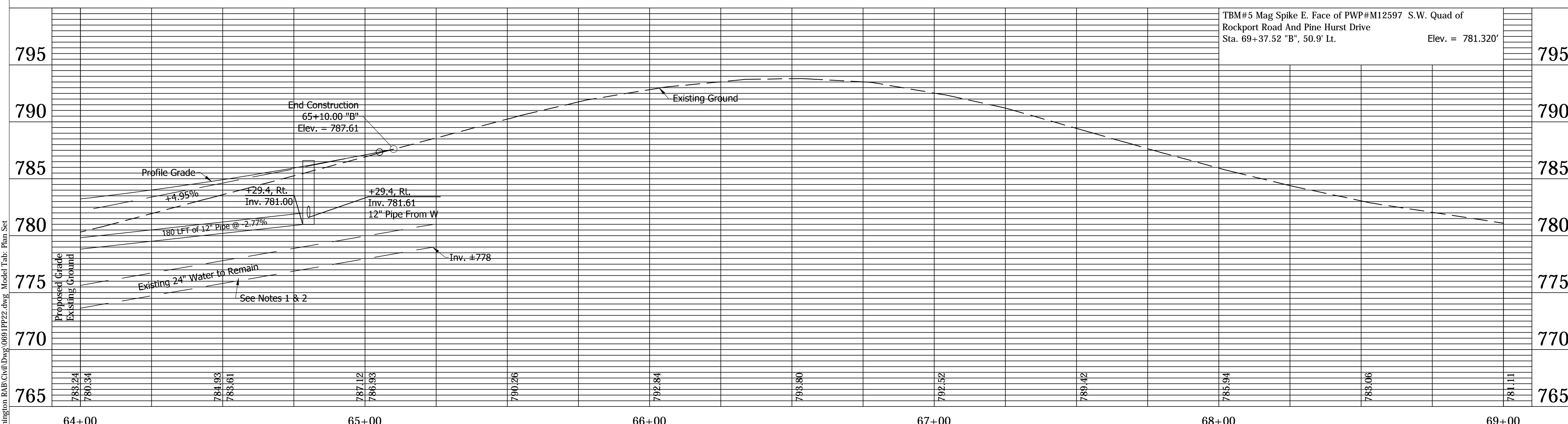


- NOTES**
- Existing 24" Water Line to Remain
  - Elevations Taken From Black & Veatch As-Built Information - Proj. No. 25188 W. Bloomington Water System Improvements September 1998

Line "PRB" to be constructed.  
 All topography and R/W described from Line "B" unless otherwise described

**LEGEND**

(14)	Concrete Curb
(15)	Combined Concrete Curb and Gutter
(26)	Nursery Sodding
(27)	Seed Mixture, U
(77)	Fence, Remove
(78)	Sidewalk, Remove
(B)	Mainline Pavement Section 165#/SYD QC/QA-HMA, 3, 70, Surface, 9.5 mm, on 275#/SYD QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on 440#/SYD QC/QA-HMA, 3, 64, Base, 25.0 mm, on 3" Compacted Aggregate, Base, No. 53, on Subgrade Treatment, Type IB
(C)	PCCP for Approaches, 9", on Subgrade Treatment, Type III
(D)	HMA for Sidewalk to be: 140#/SYD HMA, Type A, on 220#/SYD HMA, Type A, on 6" Compacted Aggregate Base, No. 53, on Subgrade Treatment, Type III
(E)	PCCP for Approaches, 6", on Subgrade Treatment, Type III
(F)	Concrete Sidewalk, 4"
(R)	165#/SYD QC/QA-HMA, 4, 70, Surface, 9.5 mm, on Variable Depth Milling
(T)	Sidewalk Transition
(W)	HMA for Pavement Widening to be: 165#/SYD QC/QA-HMA, 3, 70, Surface, 9.5 mm, on 275#/SYD QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on 440#/SYD QC/QA-HMA, 3, 64, Base, 25.0 mm, on 3" Compacted Aggregate, Base, No. 53, on Subgrade Treatment, Type IB
(G)	Curb Ramp, Type (Letter Denotes Type)



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 DLZ INDIANA, LLC

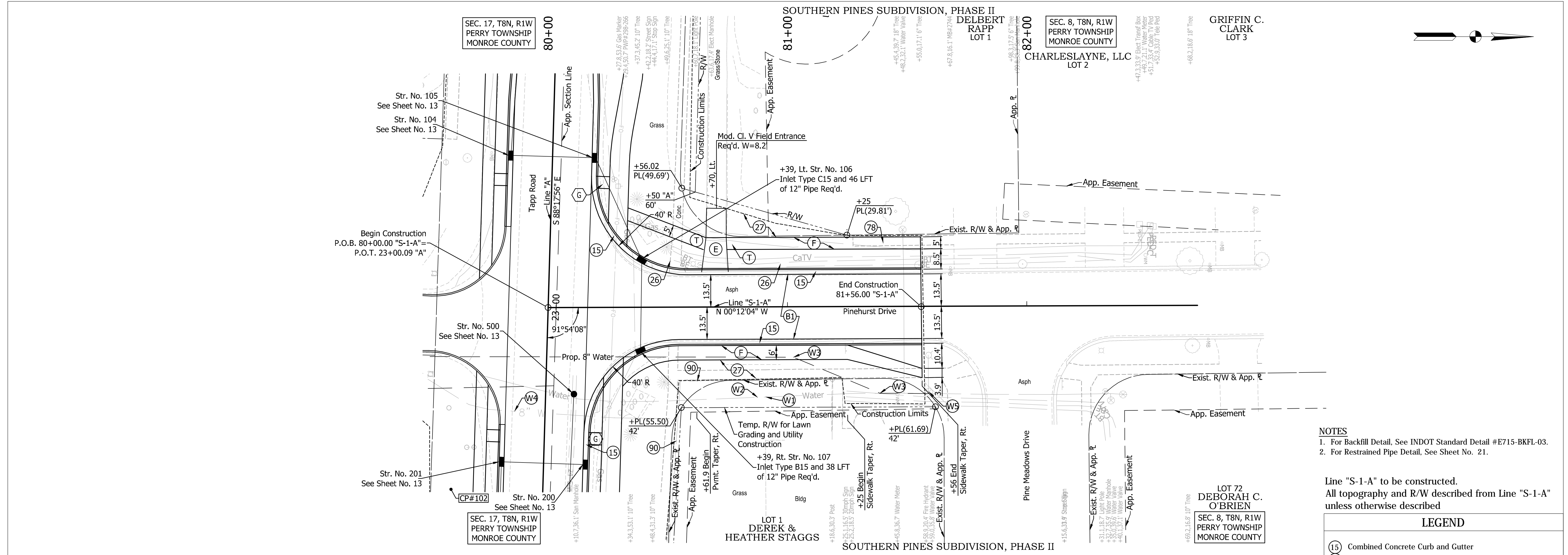
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DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

INDIANA DEPARTMENT OF TRANSPORTATION  
**PLAN AND PROFILE**  
**LINE "PRB"**

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	19 of 53
CONTRACT	PROJECT
R-36022	090173000

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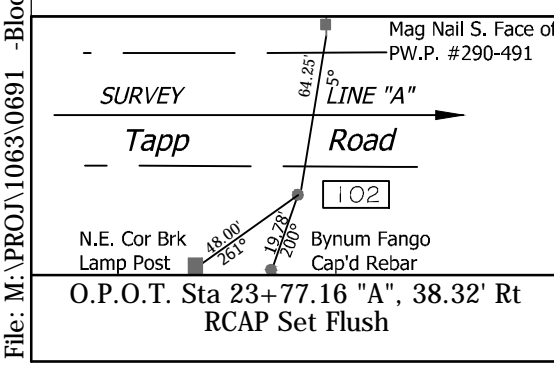
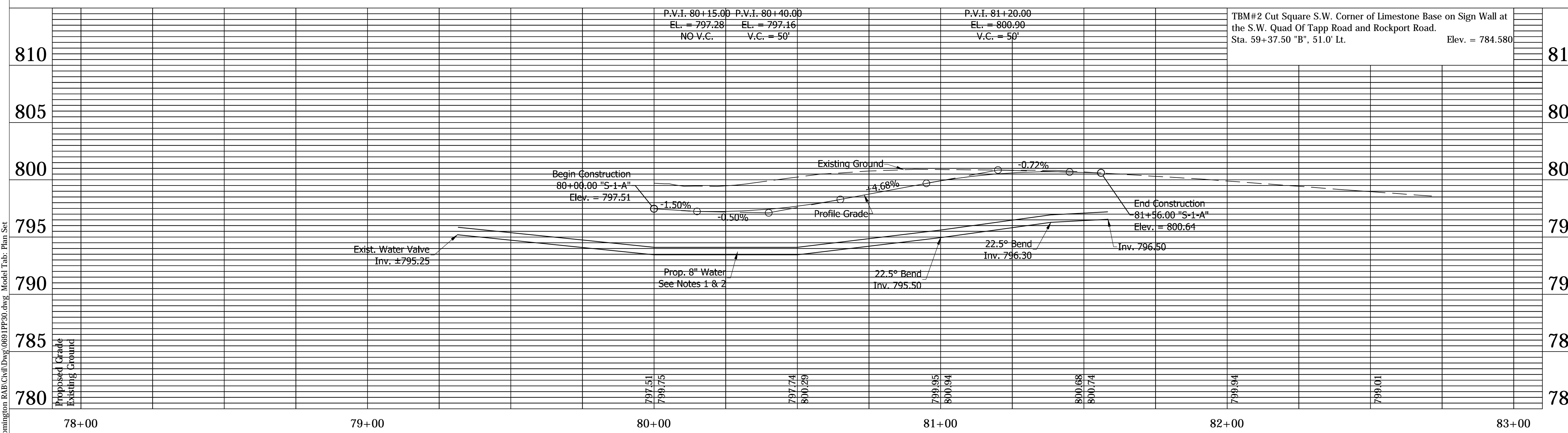




- NOTES**
- For Backfill Detail, See INDOT Standard Detail #E715-BKFL-03.
  - For Restrained Pipe Detail, See Sheet No. 21.

Line "S-1-A" to be constructed.  
All topography and R/W described from Line "S-1-A" unless otherwise described

LEGEND	
(15)	Combined Concrete Curb and Gutter
(26)	Nursery Sodding
(27)	Seed Mixture, U
(78)	Sidewalk, Remove
(90)	Fence, Do Not Disturb
(B1)	165#/SYD QC/QA-HMA, 3, 70, Surface, 9.5 mm, on 275#/SYD QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on 7" Compacted Aggregate, Base, No. 53, on Subgrade Treatment, Type IB
(C)	PCCP for Approaches, 9", on Subgrade Treatment, Type III
(D)	HMA for Sidewalk to be: 140#/SYD HMA, Type A, on 220#/SYD HMA, Type A, on 6" Compacted Aggregate Base, No. 53, on Subgrade Treatment, Type III
(E)	PCCP for Approaches, 6", on Subgrade Treatment, Type III
(F)	Concrete Sidewalk, 4"
(T)	Sidewalk Transition
(W1)	8" Water Line to be Removed
(W2)	Existing Water Valve, to be Removed
(W3)	Approx. Location 22.5° Fitting
(W4)	Reconnect Sanitary Lateral - Contractor to Field Determine Exact Location of Lateral
(W5)	Existing Water Valve
(G)	Curb Ramp, Type _ (Letter Denotes Type)



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DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

INDIANA DEPARTMENT OF TRANSPORTATION  
**PLAN AND PROFILE**  
**LINE "S-1-A"**

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	20 of 53
CONTRACT	PROJECT
R-36022	090173000

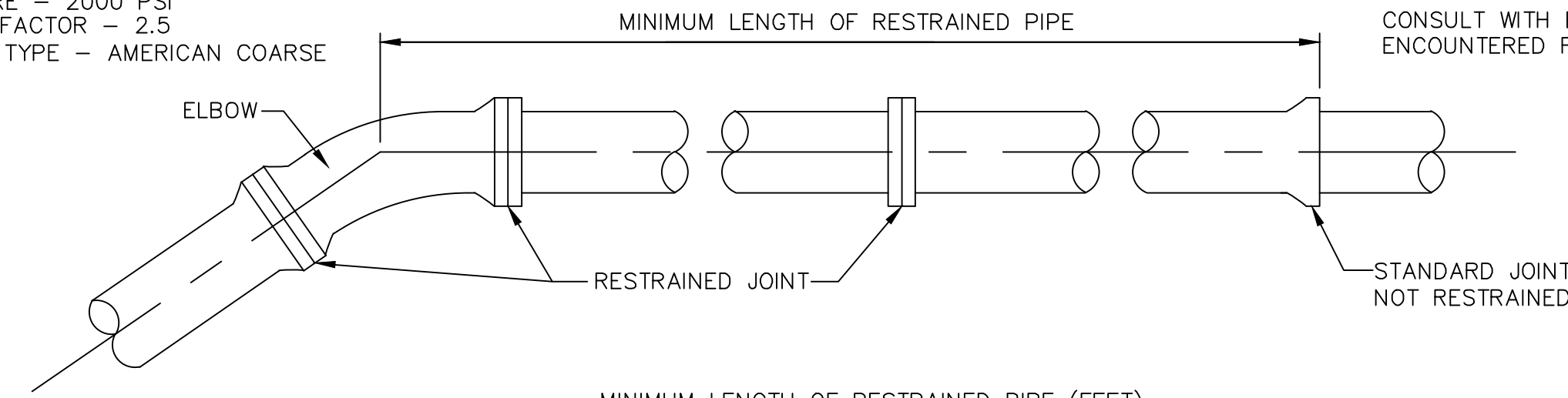
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**RESTRAINED PIPE SYSTEM PARAMETERS**

PRESSURE - 200 PSI  
 SOIL TYPE - GW (ASTM STD. D2487)  
 BEDDING - NATIVE  
 TRENCH TYPE - 3  
 SAFETY FACTOR - 2

**RESTRAINING ROD PARAMETERS**

PRESSURE - 2000 PSI  
 SAFETY FACTOR - 2.5  
 THREAD TYPE - AMERICAN COARSE



CONSULT WITH ENGINEER FOR ANY VARIATIONS ENCOUNTERED FROM THESE PARAMETERS.

MINIMUM LENGTH OF RESTRAINED PIPE (FEET)

DEPTH OF COVER PIPE DIAM	DEGREE OF ELBOW															
	11 1/4'				22 1/2'				45'				90° OR DEAD END			
	4'	5'	8'	10'	4'	5'	8'	10'	4'	5'	8'	10'	4'	5'	8'	10'
4"	1	1	1	1	3	2	1	1	6	5	3	3	15	12	8	6
6"	2	2	1	1	4	3	2	2	9	7	5	4	21	17	11	9
8"	3	2	1	1	5	4	3	2	11	9	6	5	28	22	14	12
10"	3	3	2	1	6	5	3	3	14	11	7	6	33	27	17	14
12"	4	3	2	2	8	6	4	3	16	13	8	7	39	32	20	17
14"	4	3	2	2	9	7	5	4	18	15	10	8	44	36	23	19
18"	5	4	3	2	11	9	6	5	23	19	12	10	55	45	29	24

NUMBER AND SIZE AND RESTRAINING RODS TO USE FOR VARIOUS DEGREES OF ELBOWS AND DIAMETER OF PIPES

DIAM	11 1/4'	22 1/2'	45'	90° OR DEAD END MAIN
4"	None	None	2 1/2"	2 1/2"
6"	None	2 1/2"	2 1/2"	2 1/2"
8"	None	2 1/2"	2 1/2"	4 1/2"; 4 5/8"; 2 3/4"
10"	None	2 1/2"	2 1/2"	8 1/2"; 6 5/8"; 4 3/4"
12"	None	2 1/2"	2 1/2"	8 1/2"; 6 5/8"; 4 3/4"
14"	2 1/2"	2 1/2"	4 1/2"	10 1/2"; 8 5/8"; 5 3/4"
18"	2 1/2"	2 1/2"	6 1/2"	12 5/8"; 8 3/4"

**NOTE TO REVIEWER**  
 DETAIL WILL BE ADDED AT NEXT SUBMITTAL

SANITARY CONNECTION DETAIL

RESTRAINED PIPE DETAIL

Date: Mar 09 2016 11:27am User ID: jhall  
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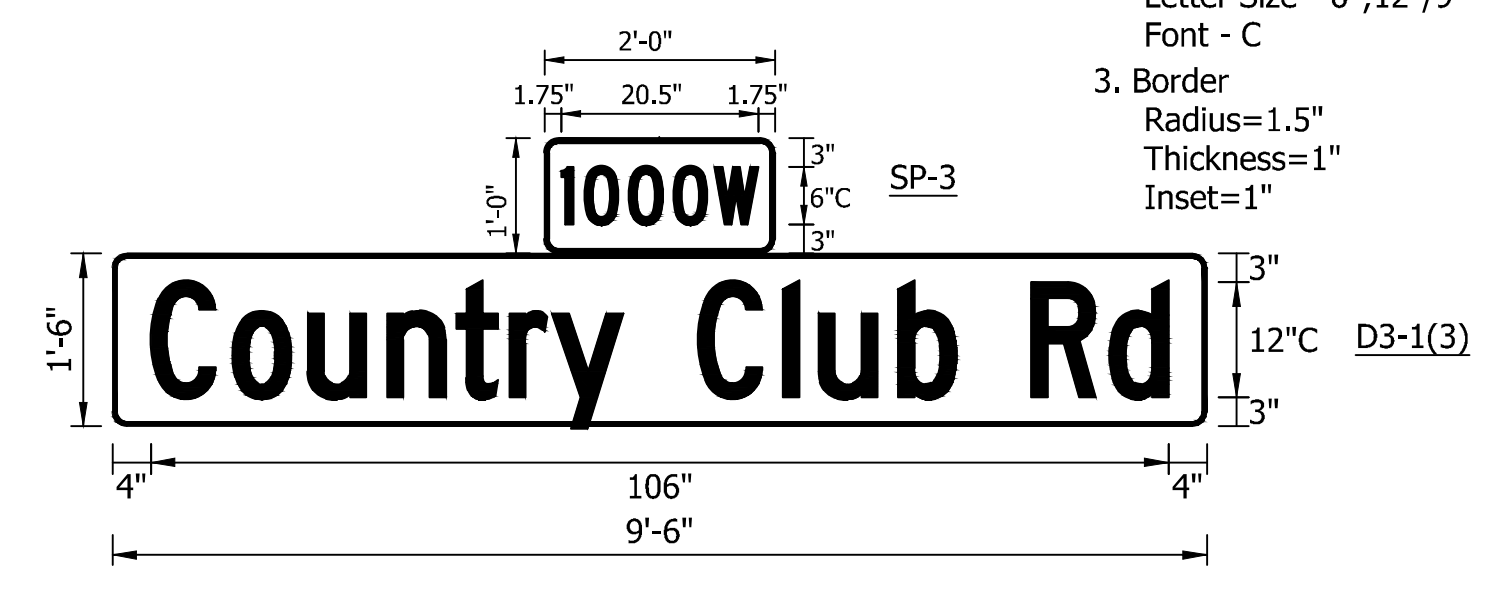
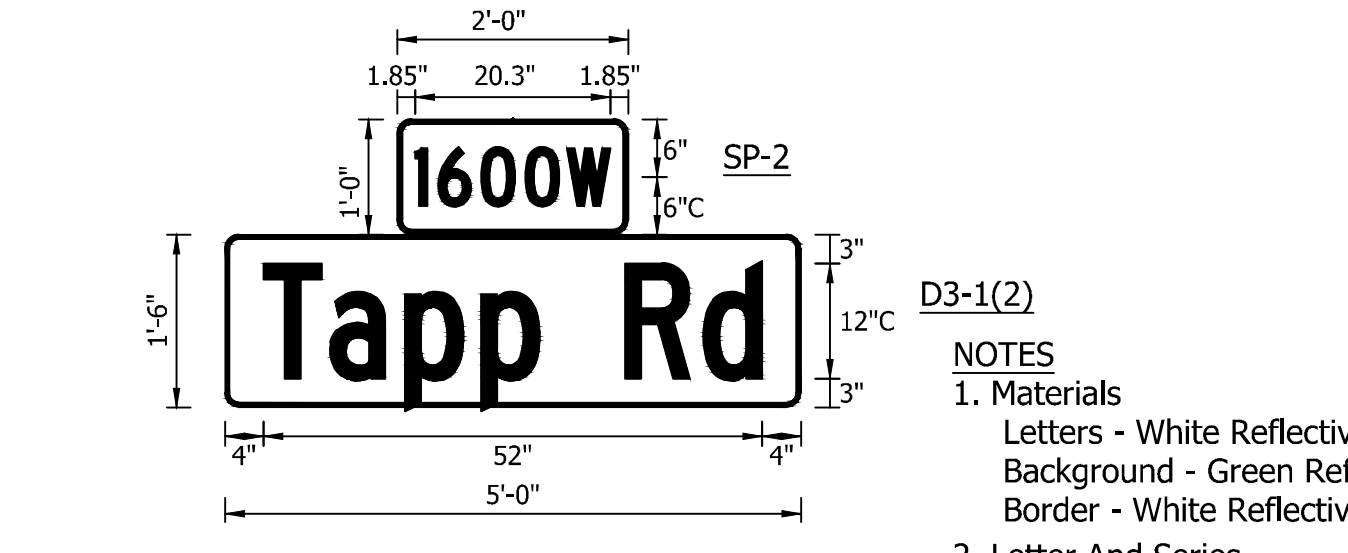
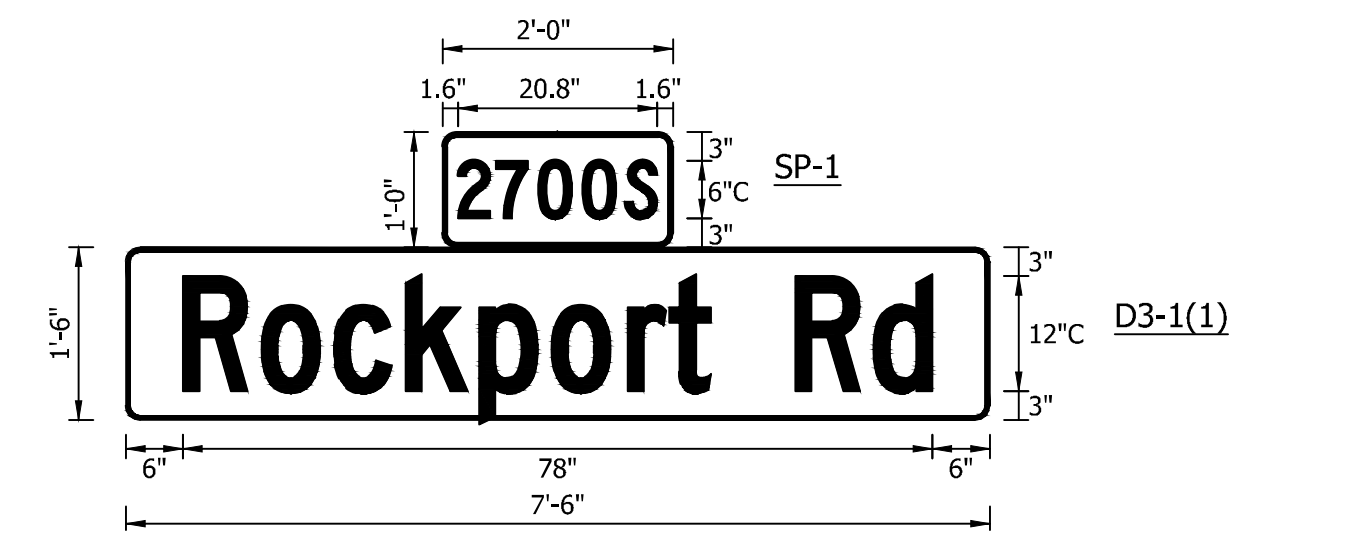
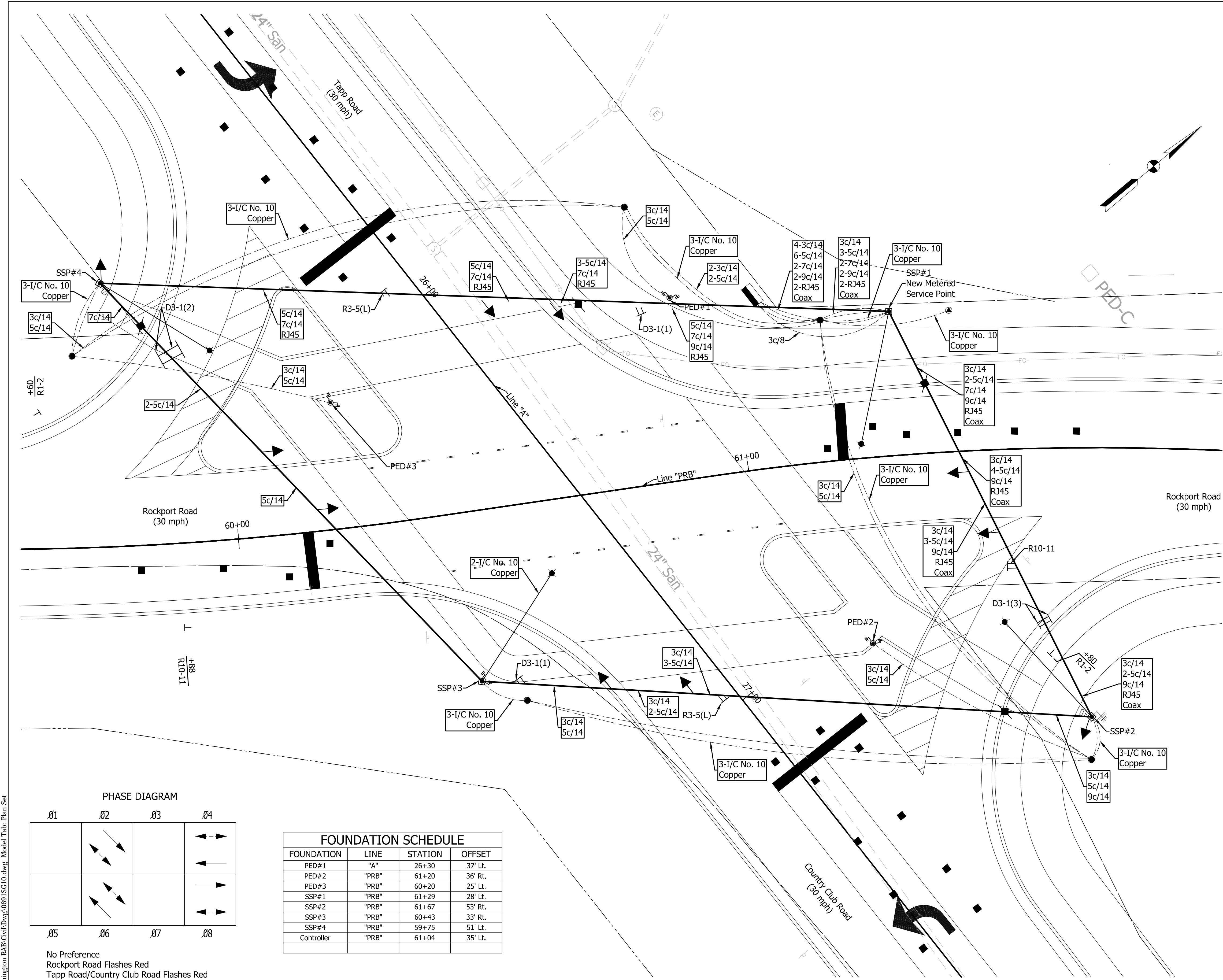
**NOT FOR CONSTRUCTION**  
 DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JFP	DRAWN: JPB	
CHECKED: MB	CHECKED: MB	

INDIANA DEPARTMENT OF TRANSPORTATION

DETAILS

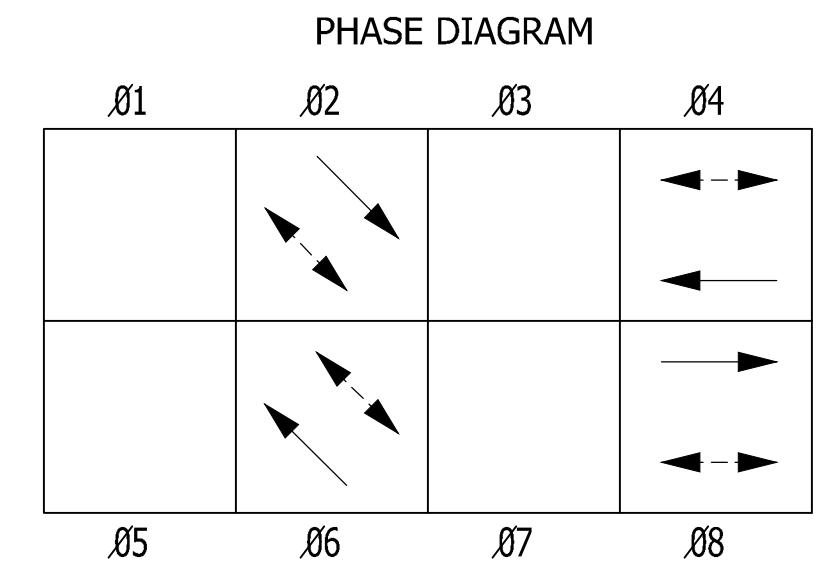
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NOT TO SCALE	---
VERTICAL SCALE	DESIGNATION
	0901730
SURVEY BOOK	SHEETS
---	21 of 53
CONTRACT	PROJECT
R-36022	090173000



- NOTES**
- Materials  
Letters - White Reflective  
Background - Green Reflective  
Border - White Reflective
  - Letter And Series  
Letter Size - 6", 12"/9"  
Font - C
  - Border  
Radius=1.5"  
Thickness=1"  
Inset=1"

SIGN LEGEND		
SIGN	DESCRIPTION	SIZE (in x in)
D3-1(1)	"Rockport Rd" Sign	90 x 18
D3-1(2)	"Tapp Rd" Sign	60 x 18
D3-1(3)	"Country Club Rd" Sign	114 x 18
R3-5(L)	"Mandatory Movement Lane Control (Left)" Symbol	30 x 36
R10-11	"No Turn on Red" Sign	24 x 30
SP-1	"2700S" Sign	12 x 24
SP-2	"1600W" Sign	12 x 24
SP-3	"1000W" Sign	12 x 24

- LEGEND**
- Span, Catenary, and Tether
  - 2" Galvanized Steel Conduit
  - Signal Handhole
  - Existing Power Pole
  - 30' Steel Strain Pole
  - Signal Pedestal Pole For Pedestrian Indications
  - Sheet Sign Mounted on Span
  - Disconnect Hanger
  - 18" LED Pedestrian Signal Indicator with Countdown Timer and R10-4E (9"x15") Sign
  - 1-Way, 3-Section (12" Red LED, 12" Amber LED, 12" Green LED) Signal Indication With Backplate
  - Wireless Vehicle Detection Sensor
  - 250 Watt LED Luminaire on 25' Mast Arm, 30' Nominal Mounting Height
  - Electric Service Point, Type I, Lighting
  - Yagi Radio Antenna
  - Wireless Vehicle Detection Access Point
  - 8 Phase Fully Actuated Menu Driven Controller and Cabinet on 'P-1' Foundation
  - Pavement Message Marking, Thermoplastic, Lane Indication Arrow



FOUNDATION SCHEDULE			
FOUNDATION	LINE	STATION	OFFSET
PED#1	"A"	26+30	37' Lt.
PED#2	"PRB"	61+20	36' Rt.
PED#3	"PRB"	60+20	25' Lt.
SSP#1	"PRB"	61+29	28' Lt.
SSP#2	"PRB"	61+67	53' Rt.
SSP#3	"PRB"	60+43	33' Rt.
SSP#4	"PRB"	59+75	51' Lt.
Controller	"PRB"	61+04	35' Lt.

No Preference  
Rockport Road Flashes Red  
Tapp Road/Country Club Road Flashes Red

- NOTES**
- 2016 INDOT Standard Specifications and INDOT Standard Drawings to govern construction of the traffic signal shown on plans.
  - It is the Contractor's responsibility to verify all utility locations prior to any excavation associated with signal construction.
  - "Specifications for Wireless Vehicle Detection System" and "Sensys Wireless Vehicle Detection System Design Guidelines for Intersection Applications" shall govern the material and installation of the wireless vehicle detections system.
  - Two wireless vehicle detection access points shall be mounted on signal strain poles SSP#2 and SSP#4 as shown at a minimum height of 20 feet above the roadway surface.
  - An (Encom 5200) radio modem shall be provided and installed for the interconnect radio. Coaxial ("Coax") cable shall be installed between the yagi antenna and the radio, per the traffic signal specifications.



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DLZ INDIANA, LLC

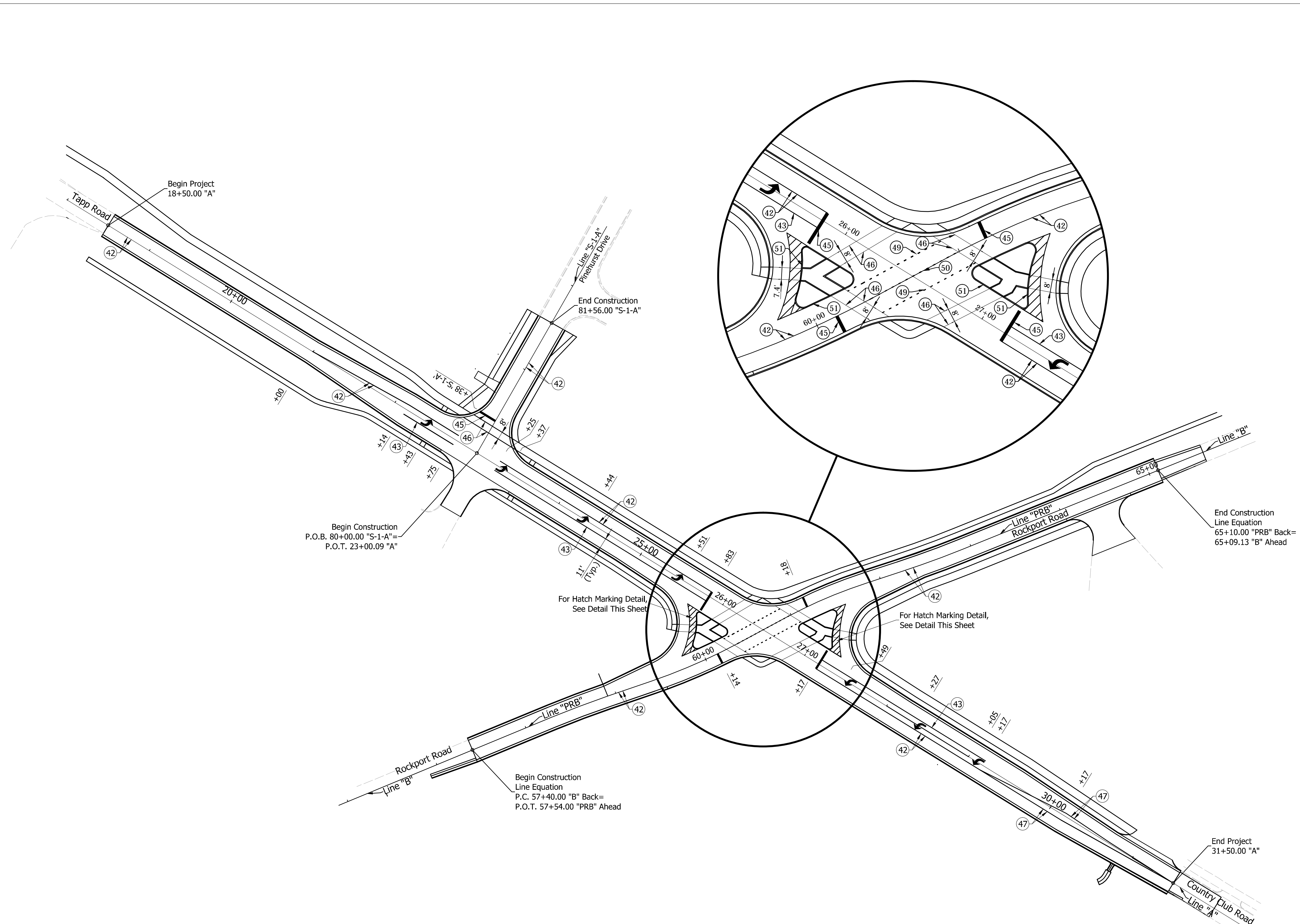
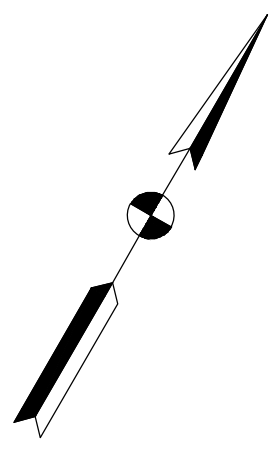
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: _____	DRAWN: DPH	
CHECKED: _____	CHECKED: FS	

INDIANA DEPARTMENT OF TRANSPORTATION  
SIGNAL PLAN - ROCKPORT ROAD AT TAPP ROAD/COUNTRY CLUB ROAD

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	---
VERTICAL SCALE	DESIGNATION
	0901730
SURVEY BOOK	SHEETS
---	22 of 53
CONTRACT	PROJECT
R-36022	090173000

Date: Mar 09, 2016, 11:28am User ID: jhall  
File: M:\PROJ\1063\0691 - Bloomington RAB\Civil\DWG\0691\SG10.dwg Model Tab: Plan Set





LEGEND	
(42)	Line, Thermoplastic, Solid, Yellow, 4"
(43)	Line, Thermoplastic, Solid, White, 4"
(44)	Line, Thermoplastic, Broken, White, 4"
(45)	Stop Line, Thermoplastic, White, 24"
(46)	Line, Thermoplastic, Solid, White, 6"
(47)	Line, Thermoplastic, Solid, Yellow, 8"
(48)	Line, Thermoplastic, Solid, Yellow, 12"
(49)	Line, Thermoplastic, Dotted, White, 6"
(50)	Line, Thermoplastic, Dotted, Yellow, 6"
(51)	Curb Paint, Yellow
↖	Pavement Message Marking, Thermoplastic, Lane Indication Arrow

Date: Mar 09, 2016, 11:28am User ID: ihall  
 File: M:\PROJECTS\1063\0691 - Bloomington RAB\Civil\Drawg\0691 PM10.dwg Model Tab: Plan Set



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 DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: _____	DRAWN: DPH	
CHECKED: _____	CHECKED: FS	

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
  
**PAVEMENT MARKING AND  
 SIGNING PLAN**

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	---
VERTICAL SCALE	DESIGNATION
	0901730
SURVEY BOOK	SHEETS
---	23 of 53
CONTRACT	PROJECT
R-36022	090173000





NOTES:  
 1. CONTRACTOR TO FIELD VERIFY UPSTREAM INVERT BEFORE PLACING.

\* TOP OF CASTING ELEVATIONS FOR CONCRETE CURB AND GUTTER ARE CALCULATED 0.13 FT BELOW THE EDGE OF PAVEMENT ELEVATION.

\*\* TOP OF CASTING ELEVATIONS FOR CONCRETE CURB ARE CALCULATED 0.05 FT BELOW EDGE OF PAVEMENT ELEVATION.

# STRUCTURE DATA

STRUCTURE NUMBER	LOCATION				DESCRIPTION MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH LFT	SKEW	FLOWLINE				TOP OF CASTING ELEV.	SERVICE LIFE YR	SITE DESIGNATION	PH	BACKFILL METHOD	STRUCTURE BACKFILL TYPE CYS	FLOWABLE BACKFILL TYPE CYS	REVEITEMENT RIP-RAP CONCRETE CLASS A FOR STR.	VIDEO INSPECTION PIPE END SECTION LFT	GRATED BOX END SECTION TYPE	SAFETY METAL END SECTION EA	CONNECT TO STR.	NOTES/REMARKS		
	STATION	LEFT RIGHT	CROSS OFFSET	SIZE FT IN				COVER FT	UPSTREAM INVERT ELEV.	DOWNSTREAM INVERT ELEV.	SLOPE EA														SLOPE EA	SLOPE EA
LINE A																										
100A	17+66	X		15 2		115		1.0	780.47	774.41	784.00	75	NA	7.0	1	1	24						2			
100	19+20	X		15 2	INLET TYPE C15	67		1.1	780.95	780.49	784.66	75	NA	7.0	1	1	15									
101	19+20	X		12 2	INLET TYPE B15	25		2.3	781.16	781.00	784.66	75	NA	7.0	1	1	8									
102	21+00	X		15 2	INLET TYPE C15	180		2.4	787.17	781.00	791.28	75	NA	7.0	1	1	68									
103	21+00	X		12 2	INLET TYPE B15	35		2.9	787.67	787.50	792.18	75	NA	7.0	1	1	14									
104	22+37	X		12 2	INLET TYPE C15	137		2.5	792.80	787.45	796.42	75	NA	7.0	1	1	47									
105	22+37	X		12 2	INLET TYPE C15	35		2.2	792.98	792.95	796.42	75	NA	7.0	1	1	11							104		
LINE S-1-A																										
106	80+39	X		12 2	INLET TYPE C15	46		2.2	793.62	792.98	797.06	75	NA	7.0	1	1	14							105		
107	80+38	X		12 2	INLET TYPE B15	38		2.2	793.73	793.62	797.15	75	NA	7.0	1	1	12							106		
200	23+65	X		12 2	INLET TYPE B15	36		2.0	793.18	793.00	796.62	75	NA	7.0	1	1	10							201		
201	23+65	X		12 2	INLET TYPE C15	135		1.3	793.00	787.77	796.62	75	NA	7.0	1	1	28							203		
202	25+00	X		12 2	INLET TYPE B15	36		1.2	788.12	787.90	791.62	75	NA	7.0	1	1	7							203		
203	25+83	X		12 2	INLET TYPE C15	71		2.7	786.50	783.13	791.62	75	NA	7.0	1	1	26							205		
204	25+83	X		12 2	INLET TYPE B15	39		1.9	784.04	783.13	787.54	75	NA	7.0	1	1	11							205		
205	25+85	X	21	18 2	MH TYPE J4	71		4.3	779.65	778.03	788.13	75	NA	7.0	1	1	50							207		
206	25+64	X		12 2	INLET TYPE B15	24		6.5	779.80	779.70	787.54	75	NA	7.0	1	1	21							205		
206A	25+47	X	56	12 2	INLET TYPE E7	30		3.0	780.08	779.80	783.08	75	NA	7.0	1	1	12							206		
207	26+56	X	23	18 2	MH TYPE C4	34		3.6	777.50	776.50	784.03	75	NA	7.0	1	1	21							218		
217	26+90	X		15 2	INLET TYPE C15	7		1.5	778.70	778.67	782.48	75	NA	7.0	1	1	2							218		
218	26+90	X	25	18 2	MH TYPE C4	140		3.8	776.00	770.00	783.14	75	NA	7.0	1	1	89							221		
219	28+30	X		12 2	INLET TYPE B15	35		1.7	771.24	771.05	775.74	75	NA	7.0	1	1	9							220		
220	28+30	X		12 2	INLET TYPE C15	7		0.6	771.00	770.95	774.74	75	NA	7.0	1	1	4							221		
221	28+30	X	25	18 2	MH TYPE C4	48		1.5	769.50	768.16	776.37	75	NA	7.0	1	1	39							222		
222	28+77	X	25	24 2	MH TYPE J4	25		1.7	753.50	753.00	774.16	75	NA	7.0	1	1	91							222		
222	28+77	X		24 2		107		8.3	763.95	763.10	774.16	75	NA	7.0	1	1	169							222		
401	29+30	X		12 2	INLET TYPE B15	35		1.2	767.42	767.25	770.92	75	NA	7.0	1	1	7							400		
400	29+30	X		12 2	INLET TYPE C15	135		1.5	767.20	760.38	770.92	75	NA	7.0	1	1	31							402		
403	30+66	X		12 2	INLET TYPE B15	32		1.2	760.92	760.75	764.42	75	NA	7.0	1	1	6							402		
402	30+66	X		12 2	INLET TYPE C15	4		1.7	760.33	760.21	764.38	75	NA	7.0	1	1	1							402		
LINE PRB																										
208	58+29	X		12 2	INLET TYPE B15	24		1.2	780.85	780.70	784.35	75	NA	7.0	1	1	5							209		
209	58+29	X		12 2	INLET TYPE C15	50		1.5	780.65	780.12	784.35	75	NA	7.0	1	1	12							211		
210	58+79	X		12 2	INLET TYPE B15	24		1.2	780.62	780.50	784.12	75	NA	7.0	1	1	5							211		
211	58+79	X		15 2	INLET TYPE B15	50		1.6	780.07	779.80	784.12	75	NA	7.0	1	1	14							50		
212	59+29	X		12 2	INLET TYPE B15	29		1.2	780.76	780.60	784.26	75	NA	7.0	1	1	6							29		
213	59+29	X		18 2	INLET TYPE C15	101		1.9	779.75	779.50	784.35	75	NA	7.0	1	1	37							214		
214	60+31	X		18 2	INLET TYPE C15	23		2.0	779.45	779.30	784.62	75	NA	7.0	1	1	9							207		
215	61+11	X		12 2	INLET TYPE B15	26		1.3	779.25	779.00	783.14	75	NA	7.0	1	1	5							216		
216	61+21	X		12 2	INLET TYPE C15	57		1.3	779.00	778.75	782.58	75	NA	7.0	1	1	12							217		
300A	62+75	X		12 2	INLET TYPE F7	6		0.1	778.24	777.51	779.60	75	NA	7.0	1	1	0							6		
				12 2		11		1.2	776.00	775.30	779.60	75	NA	7.0	1	1	2							11		
300	61+57	X		12 2	INLET TYPE B15	42		1.3	777.83	777.60	781.23	75	NA	7.0	1	1	9							303		
301	62+00	X		12 2	INLET TYPE B15	30		1.1	777.58	777.40	781.08	75	NA	7.0	1	1	6							302		
302	62+02	X		12 2	INLET TYPE C15	9		1.6	777.35	777.30	780.96	75	NA	7.0	1	1	2							303		
303	62+03	X	27	15 2	MH TYPE C4	30		3.0	776.00	775.80	781.62	75	NA	7.0	1	1	14							304		
304	62+29	X	23	24 2	MH TYPE C4	43		11.3	767.00	766.50	781.49	75	NA	7.0	1	1	95							304		
304	62+29	X	23	24 2		68		1.0	774.00	773.10	774.99	75	NA	7.0	1	1	21							304		
305	62+63	X		12 2	INLET TYPE B15	24		1.2	777.32	777.20	780.82	75	NA	7.0	1	1	5							306		
306	62+63	X		12 2	INLET TYPE C15	9		1.6	777.15	777.10	780.82	75	NA	7.0	1	1	2							307		
307	62+63	X	21	18 2	MH TYPE C4	23		3.4	775.25	775.15	781.50	75	NA	7.0	1	1	13							304		

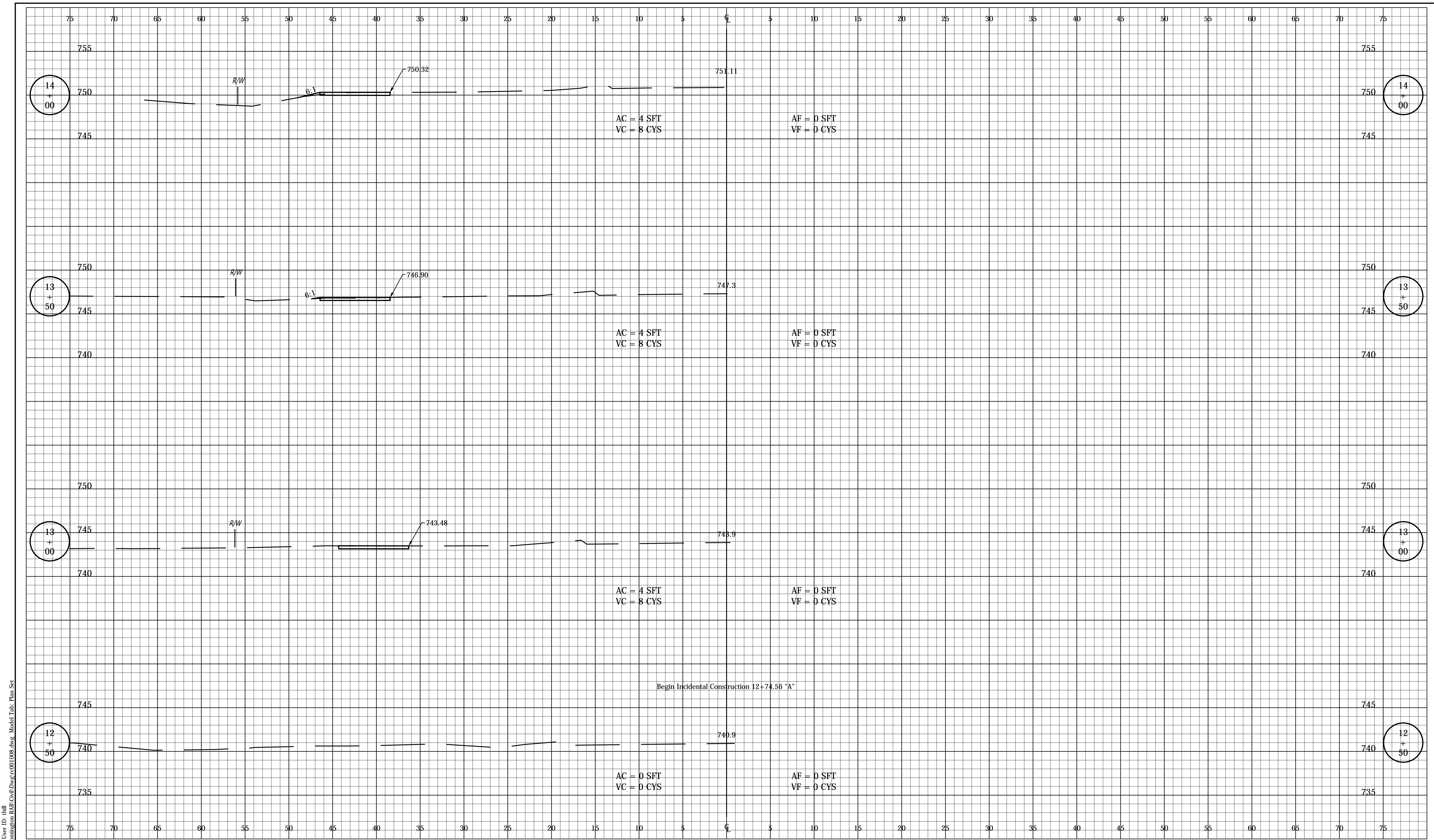
STRUCTURE NUMBER	LOCATION				DESCRIPTION MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH LFT	SKEW	FLOWLINE				TOP OF CASTING ELEV.	SERVICE LIFE YR	SITE DESIGNATION	PH	BACKFILL METHOD	STRUCTURE BACKFILL TYPE CYS	FLOWABLE BACKFILL TYPE CYS	REVEITEMENT RIP-RAP CONCRETE CLASS A FOR STR.	VIDEO INSPECTION PIPE END SECTION LFT	GRATED BOX END SECTION TYPE	SAFETY METAL END SECTION EA	CONNECT TO STR.	NOTES/REMARKS		
	STATION	LEFT RIGHT	CROSS OFFSET	SIZE FT IN				COVER FT	UPSTREAM INVERT ELEV.	DOWNSTREAM INVERT ELEV.	SLOPE EA														SLOPE EA	SLOPE EA
308	63+00	X		12 2	INLET TYPE B15	24		1.2	777.55	777.40	781.05	75	NA	7.0	1	1	5							309		
309	63+00	X		15 2	INLET TYPE C15	9		1.4	777.35	777.30	781.05	75	NA	7.0	1	1	2							310		
310	63+00	X	21	15 2	MH TYPE C4	49		3.3	775.73	775.50	781.73	75	NA	7.0	1	1	24							307		
311	64+80	X		12 2	INLET TYPE B15	24		1.4	782.43	781.93	785.93	75	NA	7.0	1	1	5							312		
312	64+80	X		12 2	INLET TYPE C15	9		2.2	781.80	781.61	785.93	75	NA	7.0	1	1	3							313		
313	64+80	X	21	12 2	MH TYPE C4	180		3.2	781.00	776.12		75	NA	7.0	1	1	77							310		
LINE A																										
500	23+36	X		12 8 2	MH TYPE C4	124		4.5	793.00	785.41		75	NA	7.0	1	1							124	501		
501	24+60	X		10	MH TYPE C4																			502		
502	25+94	X			RECONSTRUCT MH																			503		
503	28+37	X			RECONSTRUCT MH																			504		
504	30+44	X			RECONSTRUCT MH																					

Date: Mar 09 2016 11:28am User ID: jhall  
 File: E:\PROJECTS\0693\0693 - Bloomington RAB\Civil\Drawg\0693\SD10.dwg Model Tab: Plan Set



NOT FOR CONSTRUCTION  
 DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS</	



Date: Mar 09 2016 12:42pm User ID: jhill  
File: M:\PROJECTS\0693\0693 - Bloomington RAB\Civil\Drawings\001008.dwg Model Tab: Plan Set

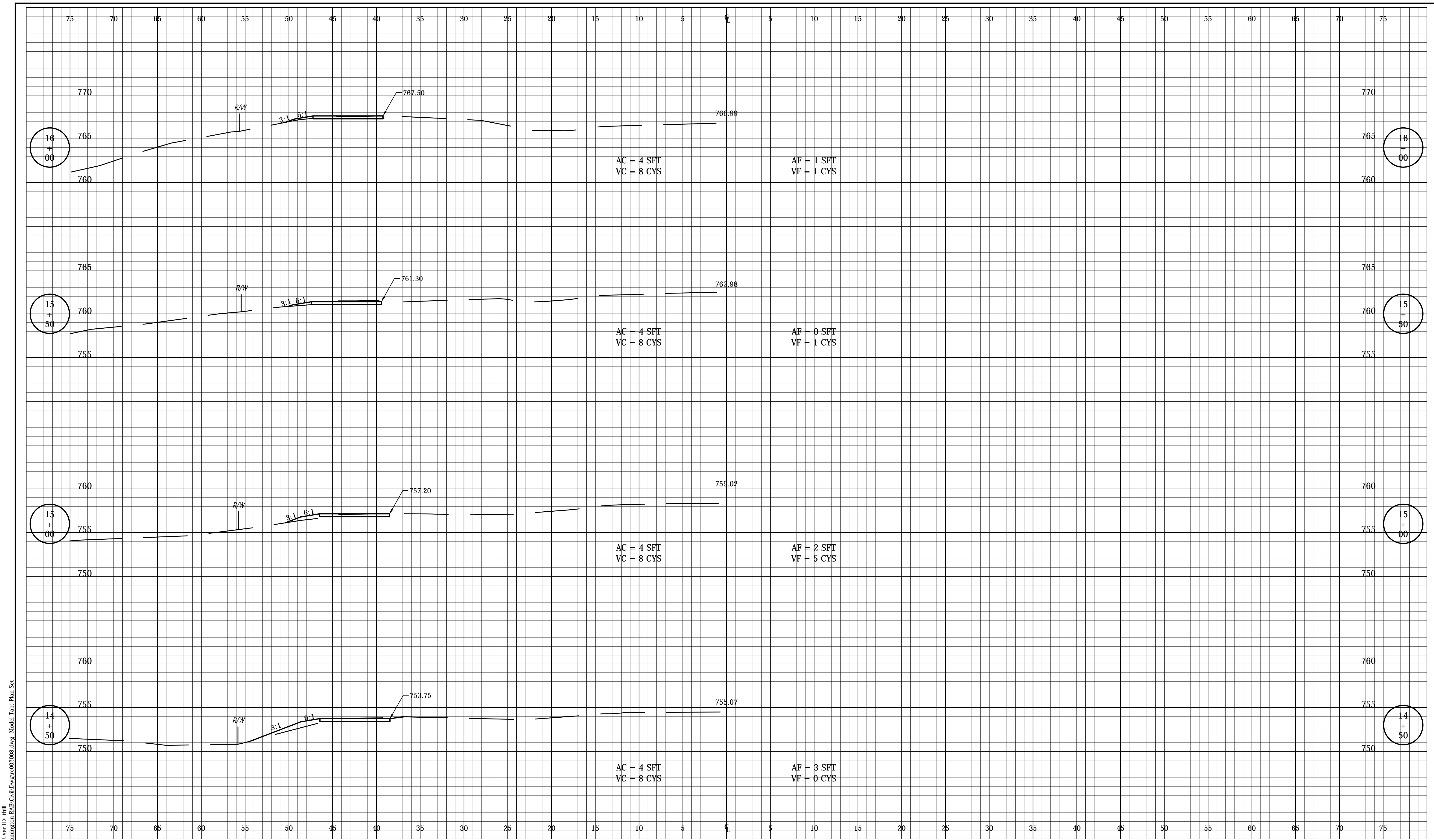


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: _____	DRAWN: _____	
CHECKED: _____	CHECKED: _____	

INDIANA  
DEPARTMENT OF TRANSPORTATION

**CROSS SECTIONS  
LINE 'A'**

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	26 of 53
CONTRACT	PROJECT
R-36022	090173000



Date: Mar 09 2016 12:42pm User ID: dhill  
 File: E:\PROJECTS\0693\0693 - Bloomington RAB\Crab\Days\cr020008.dwg Model Tab: Plan Set



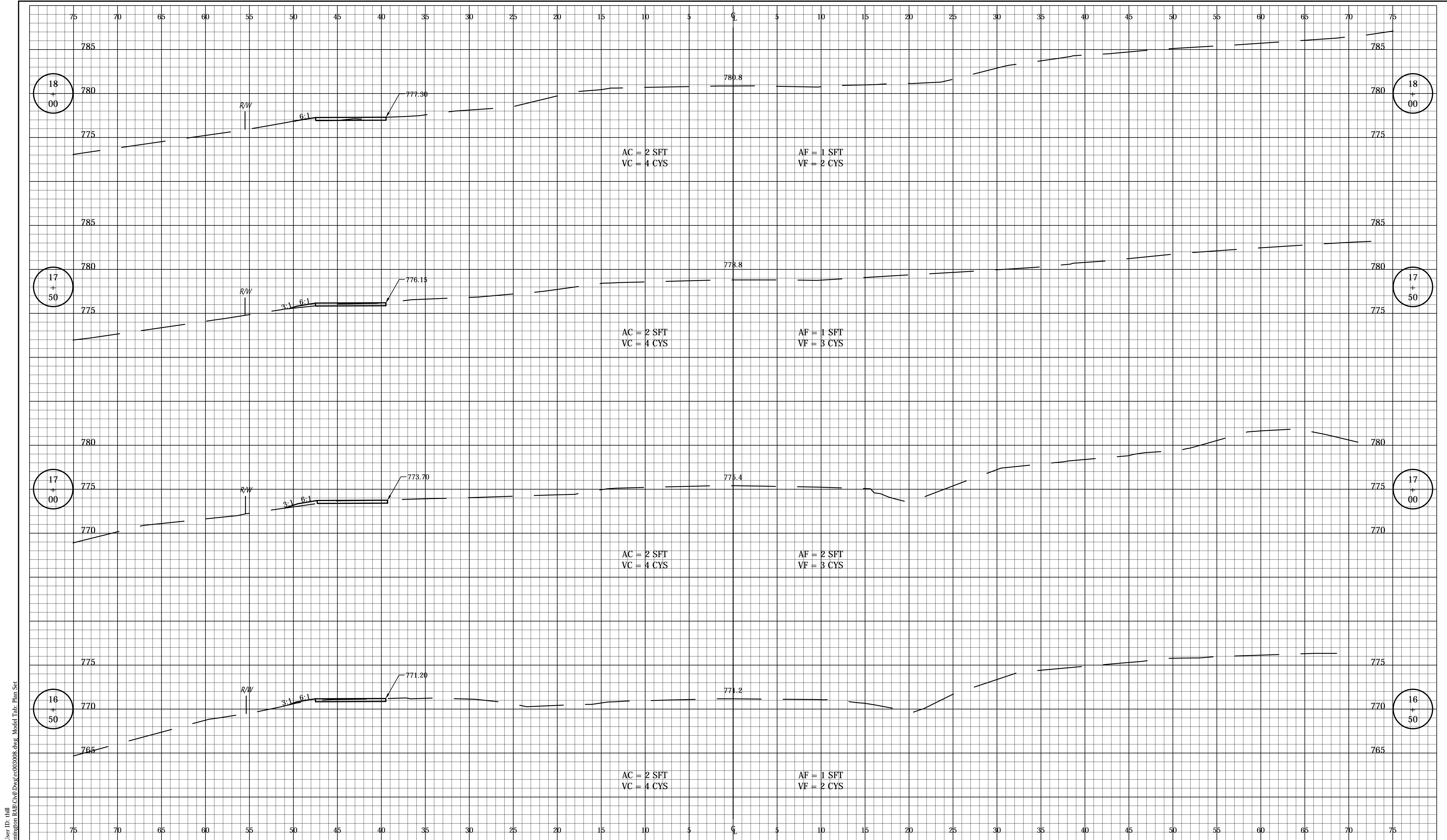
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

INDIANA  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 LINE 'A'

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	27 of 53
CONTRACT	PROJECT
R-36022	090173000





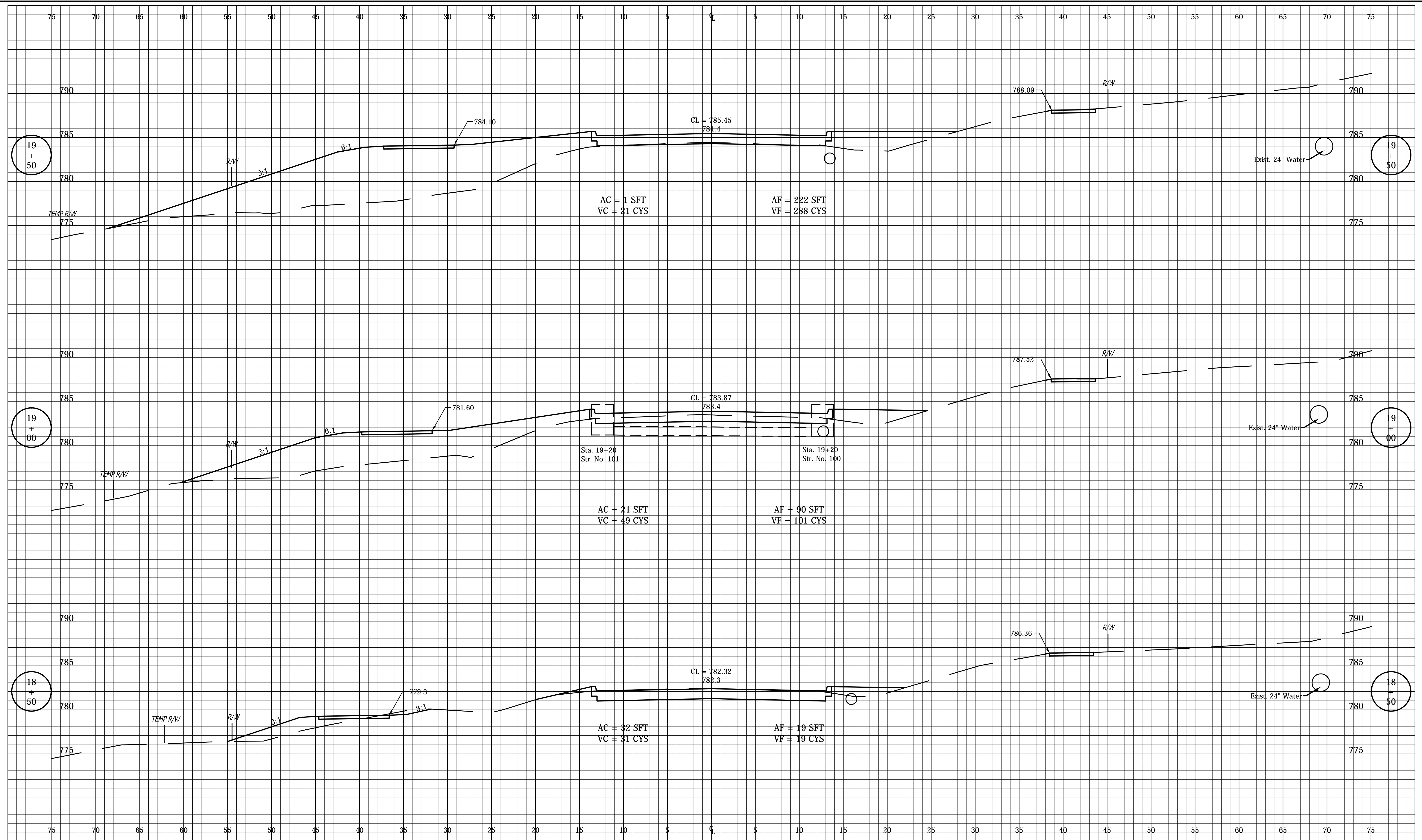
Date: Mar 10, 2016, 11:14am User ID: jhill  
 File: E:\PROJECTS\0693\0693 - Bloomington RAB\Crab\Days\cr030008.dwg Model Tab: Plan Set



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
  
 CROSS SECTIONS  
 LINE 'A'

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	28 of 53
CONTRACT	PROJECT
R-36022	090173000



Date: Mar 09 2016 12:42pm User ID: dhill  
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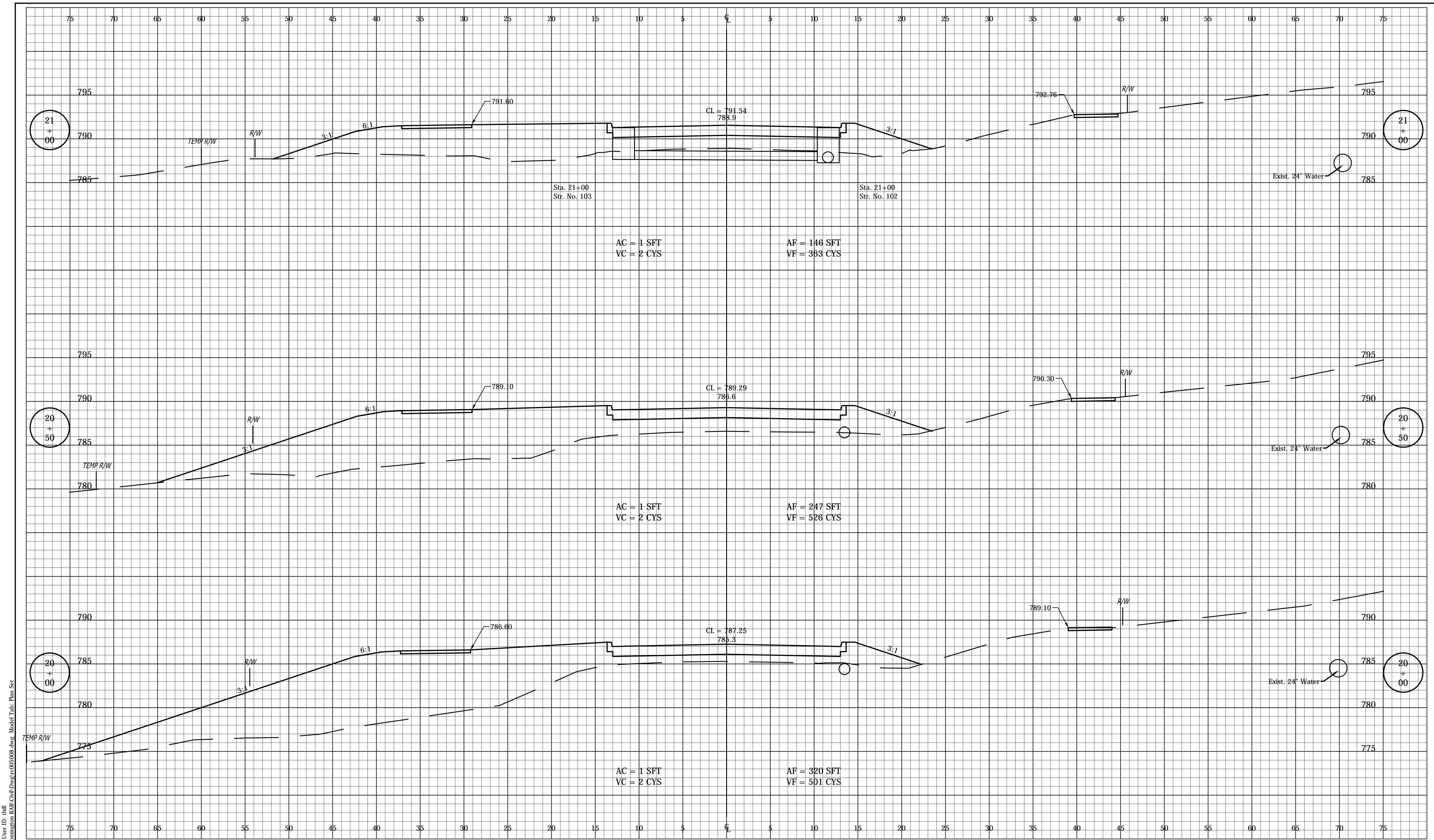


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

INDIANA  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
LINE 'A'

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	29 of 53
CONTRACT	PROJECT
R-36022	090173000



Date: Mar 09 2016 12:42pm User ID: dhill  
 File: E:\PROJECTS\06931 - Bloomington RAB\Crab\Drawings\050008.dwg Model Tab: Plan Set



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

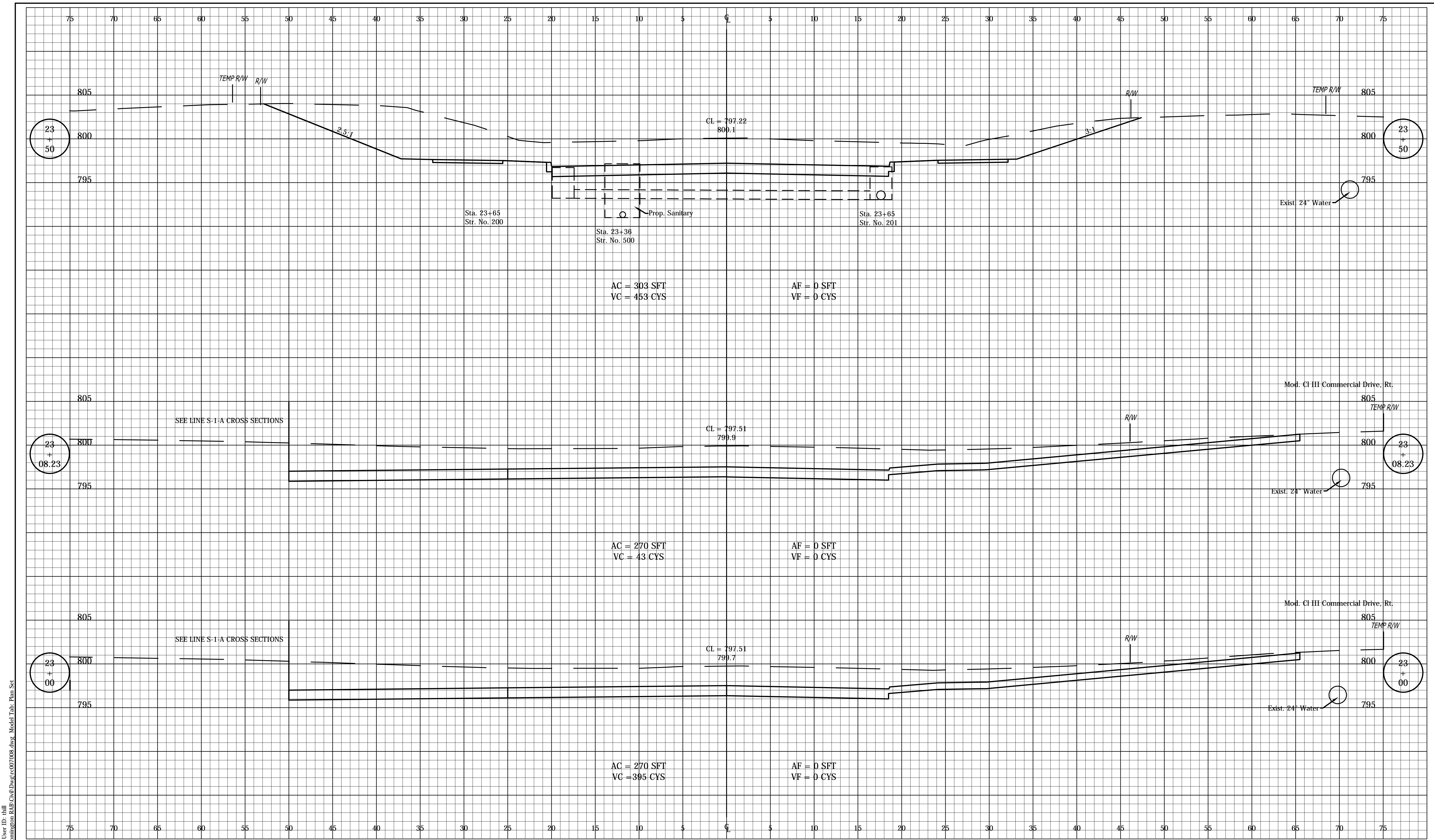
INDIANA  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 LINE 'A'

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	30 of 53
CONTRACT	PROJECT
R-36022	090173000







Date: Mar 09 2016 12:43pm User ID: jhall  
 File: E:\PROJECTS\0693\0693 - Bloomington RAB\Crab\Days\cr070008.dwg Model Tab: Plan Set

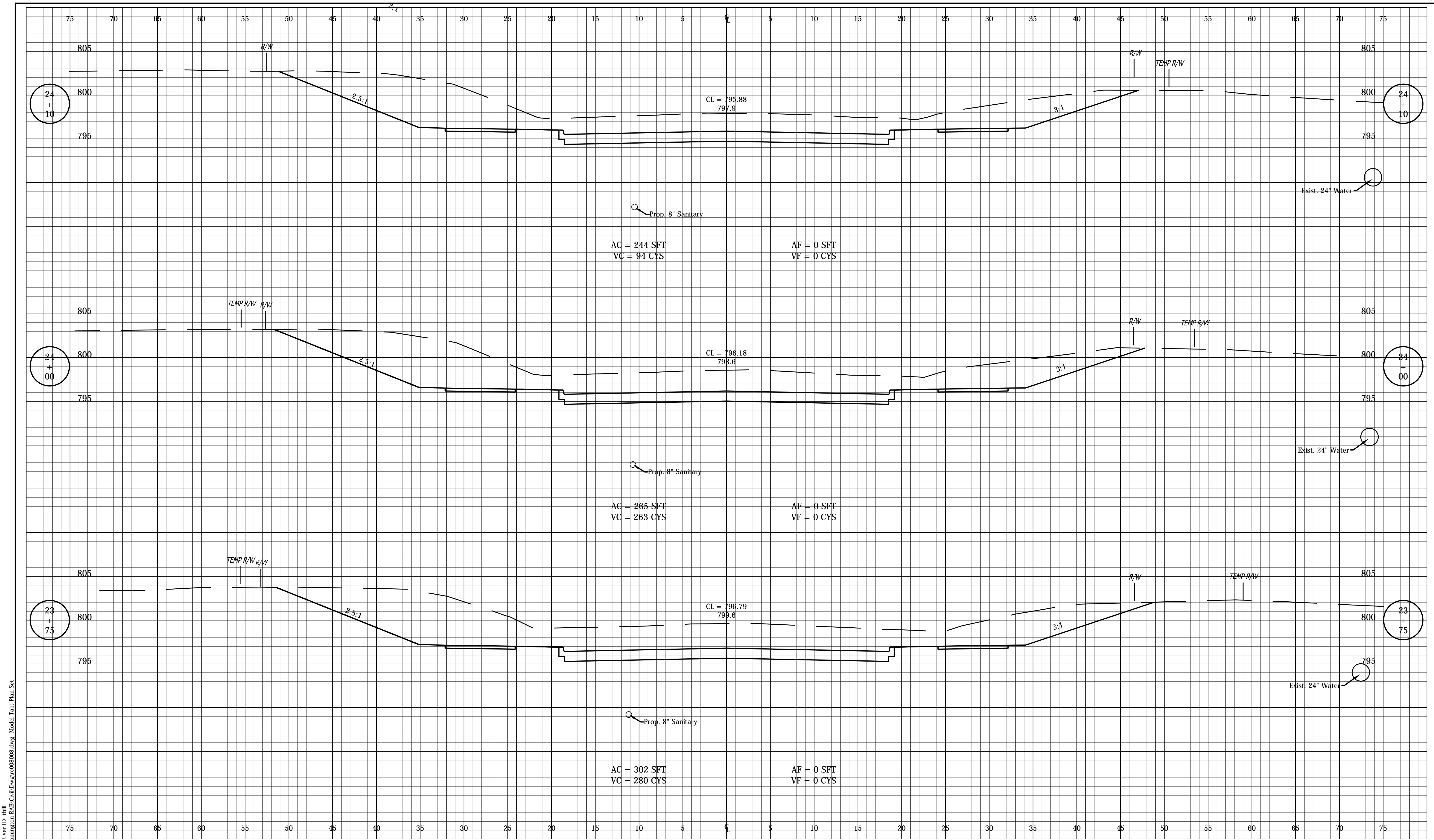


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: _____	FS	DRAWN: _____
CHECKED: _____	ADM	CHECKED: _____
		FS

INDIANA  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 LINE 'A'

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	32 of 53
CONTRACT	PROJECT
R-36022	090173000



Date: Mar 09 2016 12:43pm User ID: hlll  
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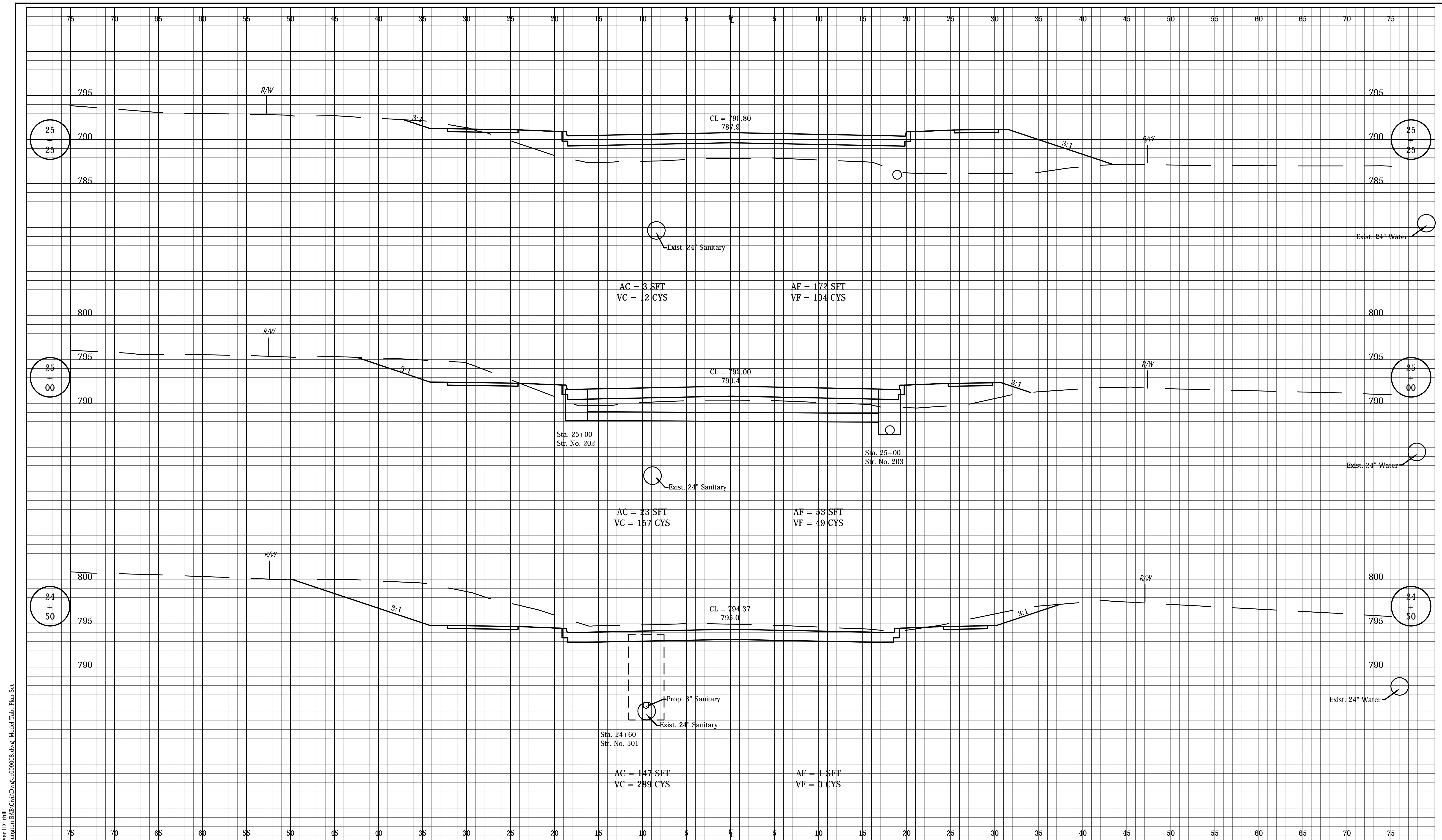
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

INDIANA  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 LINE 'A'

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	33 of 53
CONTRACT	PROJECT
R-36022	090173000





Date: Mar 09 2016 12:43pm User ID: dhll  
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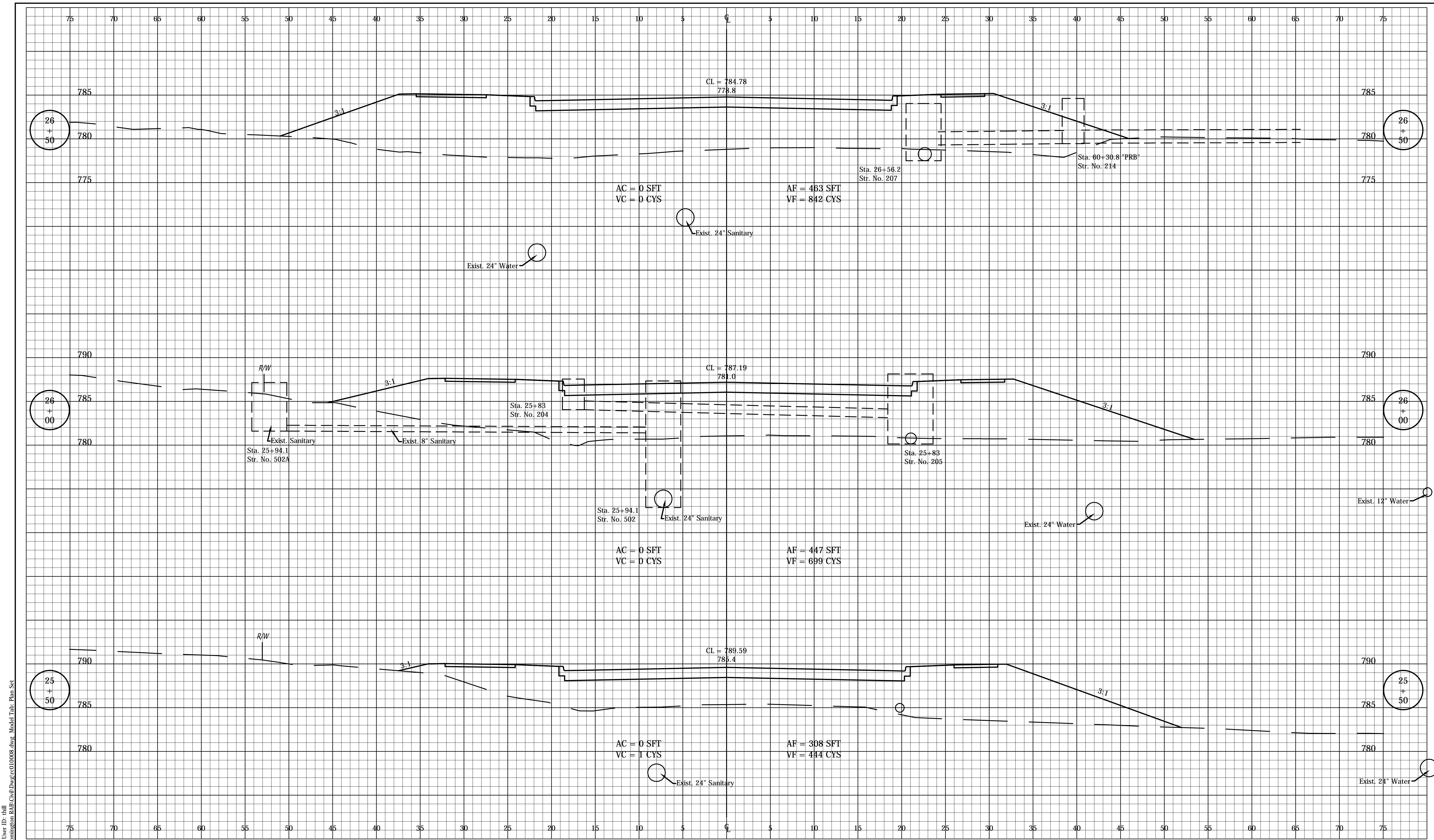


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

INDIANA  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 LINE 'A'

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	34 of 53
CONTRACT	PROJECT
R-36022	090173000



Date: Mar 09 2016 12:43pm User ID: dhill  
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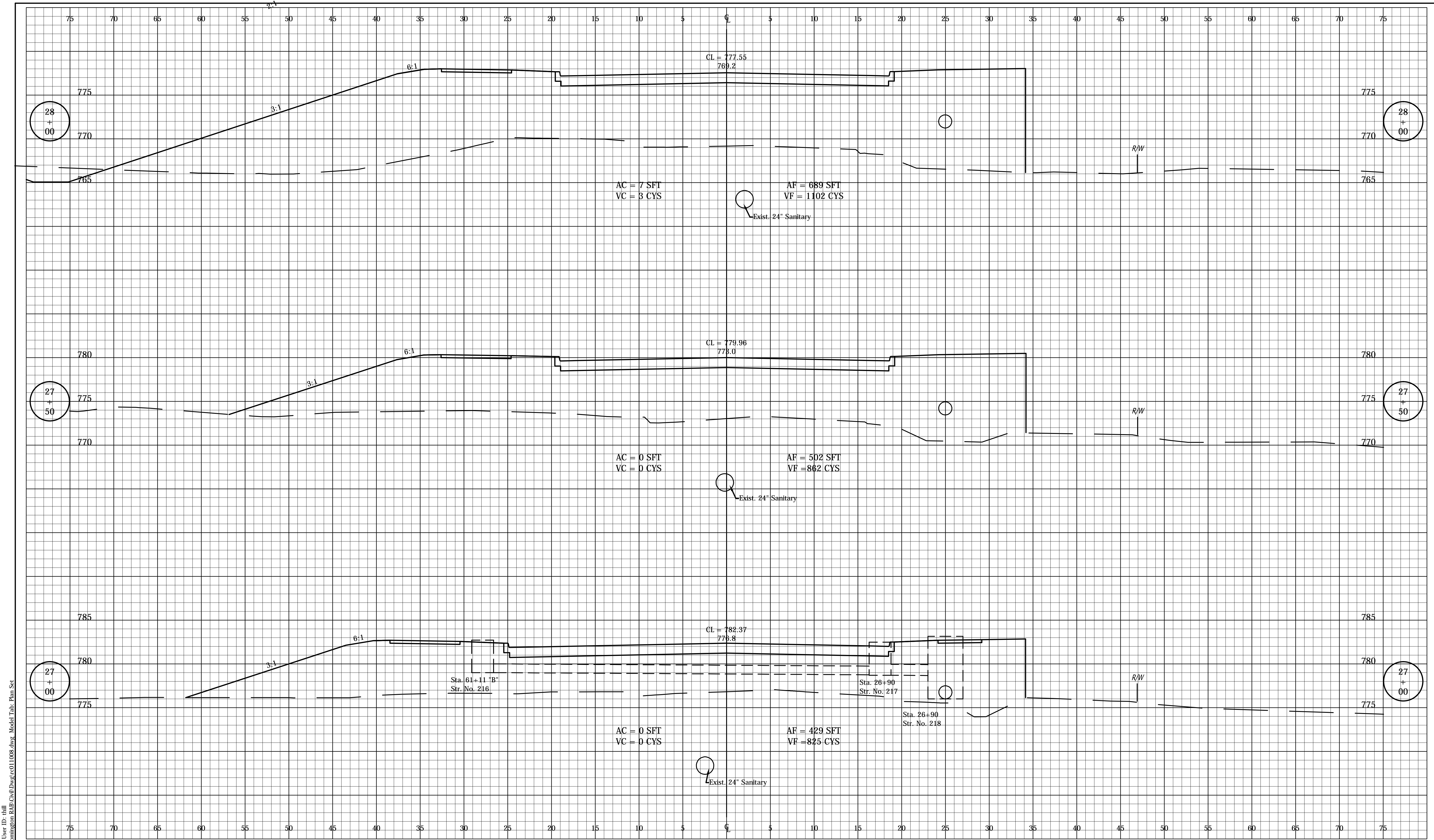


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

INDIANA  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 LINE 'A'

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	35 of 53
CONTRACT	PROJECT
R-36022	090173000



Date: Mar 09 2016 12:43pm User ID: hlll  
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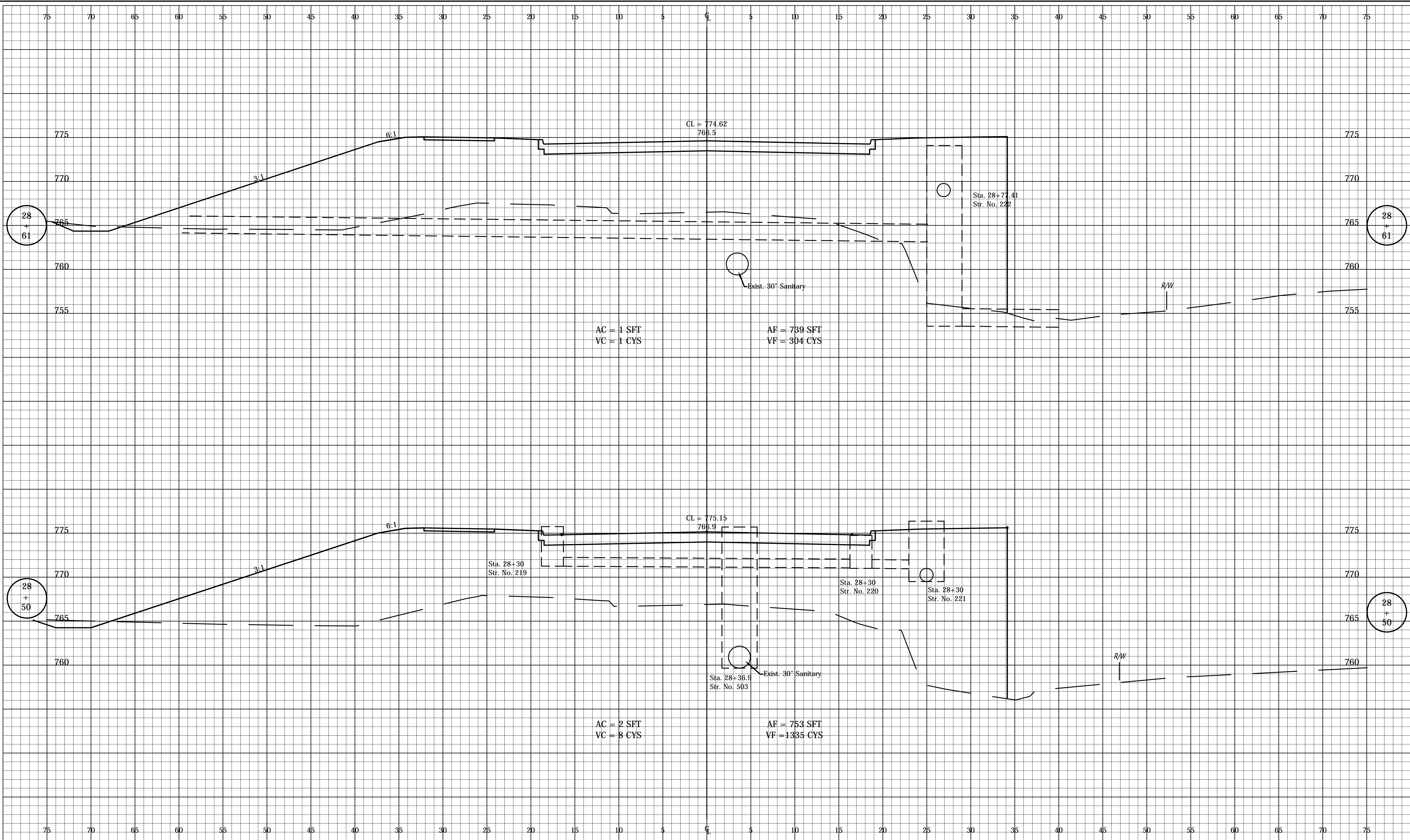


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
  
**CROSS SECTIONS**  
**LINE 'A'**

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	36 of 53
CONTRACT	PROJECT
R-36022	090173000





AC = 1 SFT  
VC = 1 CYS

AF = 739 SFT  
VF = 304 CYS

AC = 2 SFT  
VC = 8 CYS

AF = 753 SFT  
VF = 1335 CYS

Date: Mar 09 2016 12:43pm User ID: ihill  
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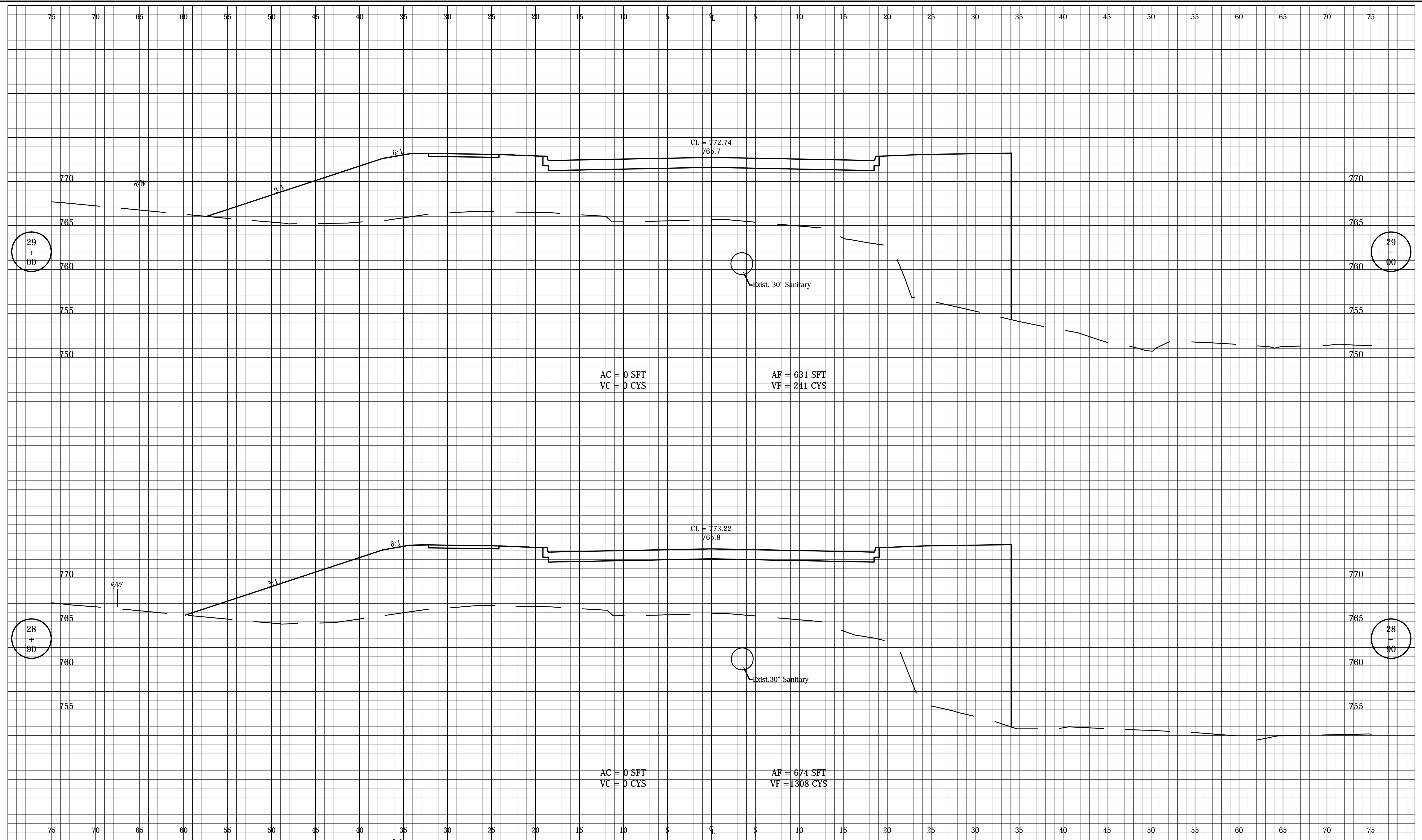


RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ FS _____	DRAWN: _____ DPH _____	
CHECKED: _____ ADM _____	CHECKED: _____ FS _____	

INDIANA  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
LINE 'A'

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE ---
VERTICAL SCALE 1" = 5'	DESIGNATION 0901730
SURVEY BOOK ---	SHEETS 37 of 53
CONTRACT R-36022	PROJECT 090173000



Date: Mar 09 2016 12:44pm User ID: dhill  
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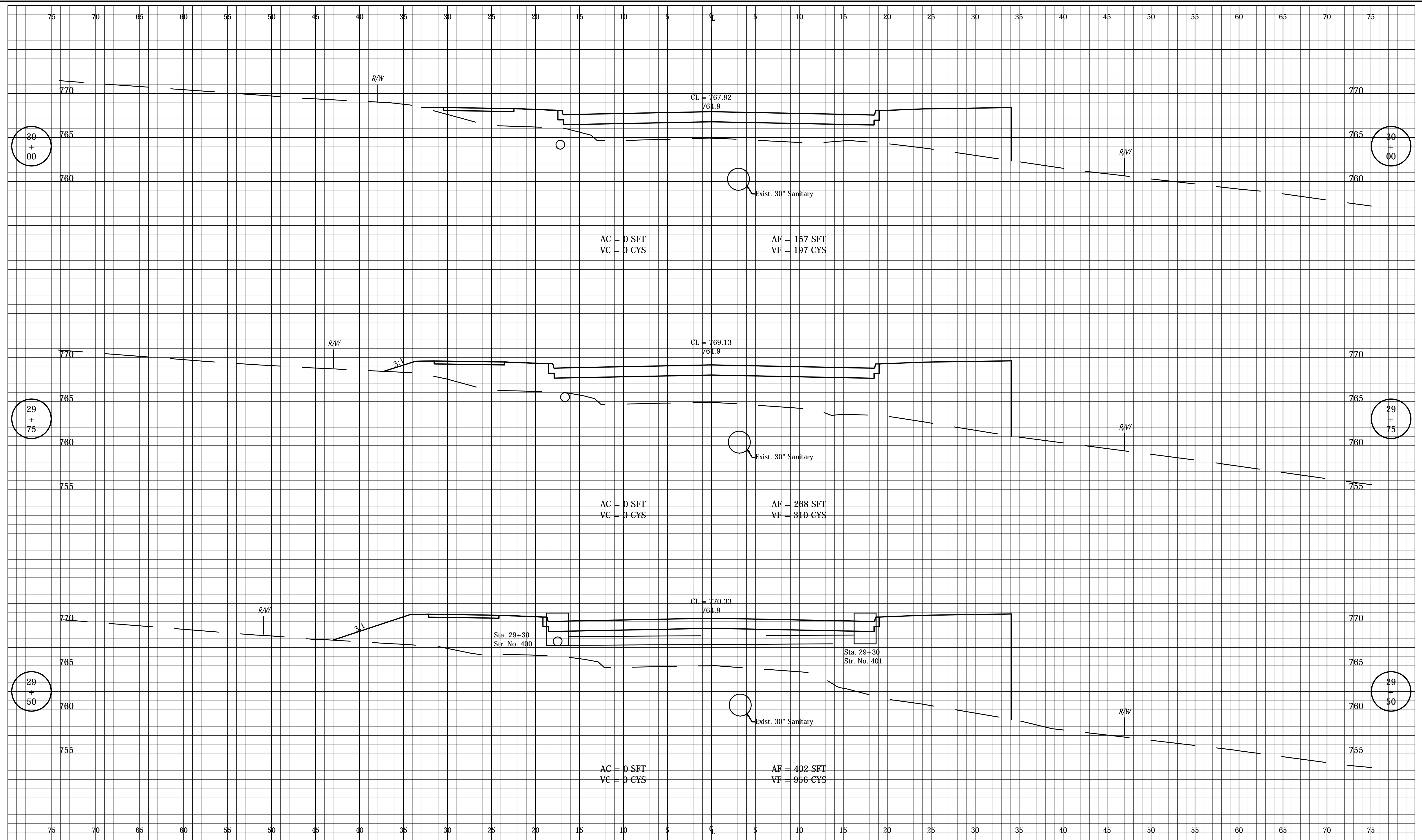


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: _____	FS	DRAWN: _____
CHECKED: _____	ADM	CHECKED: _____
		FS

INDIANA  
DEPARTMENT OF TRANSPORTATION

**CROSS SECTIONS  
LINE 'A'**

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	38 of 53
CONTRACT	PROJECT
R-36022	090173000



Date: Mar 09 2016 12:44pm User ID: dhill  
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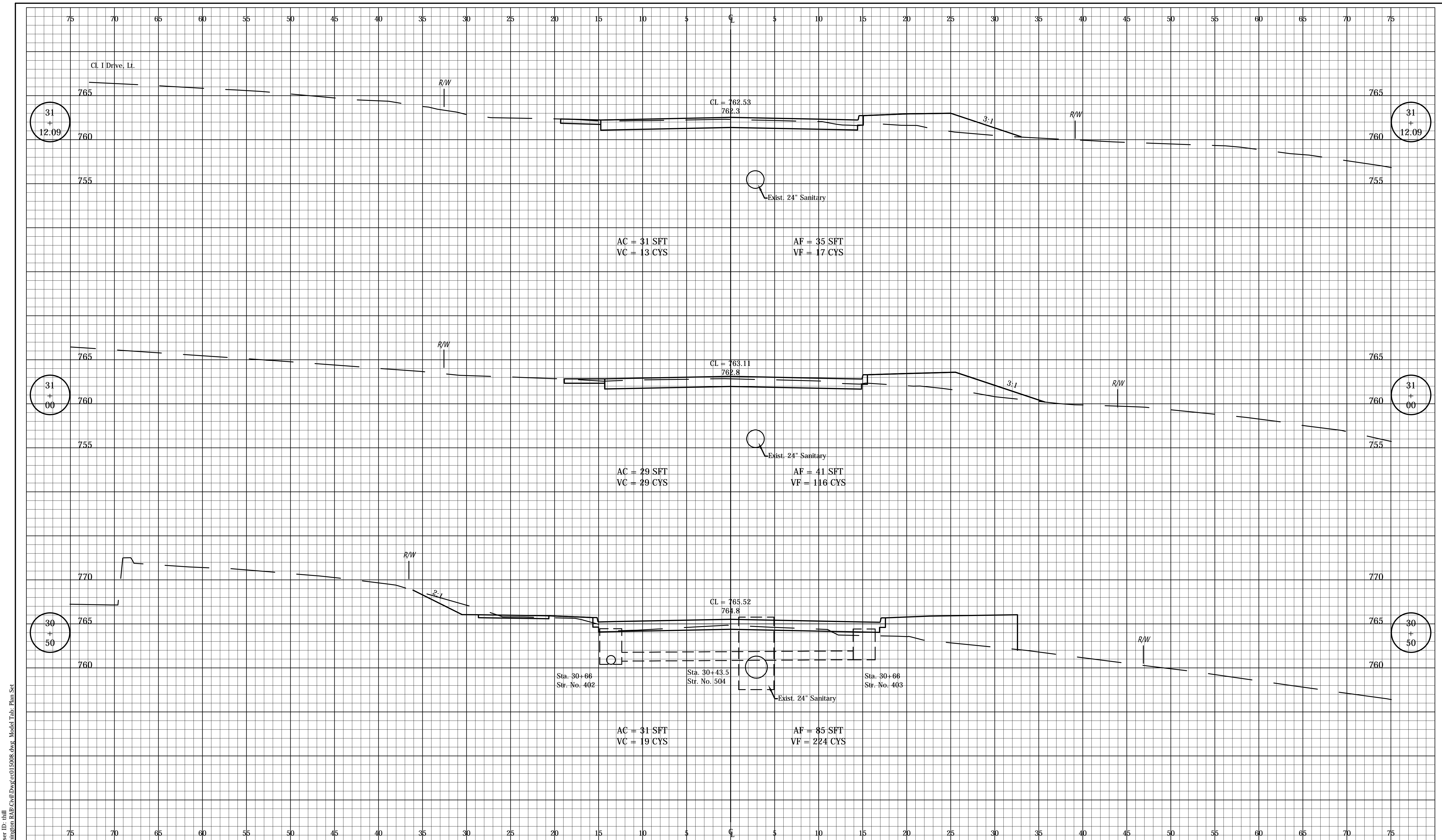


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

INDIANA  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
LINE 'A'

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	39 of 53
CONTRACT	PROJECT
R-36022	090173000



Date: Mar 09 2016 12:44pm User ID: dhill  
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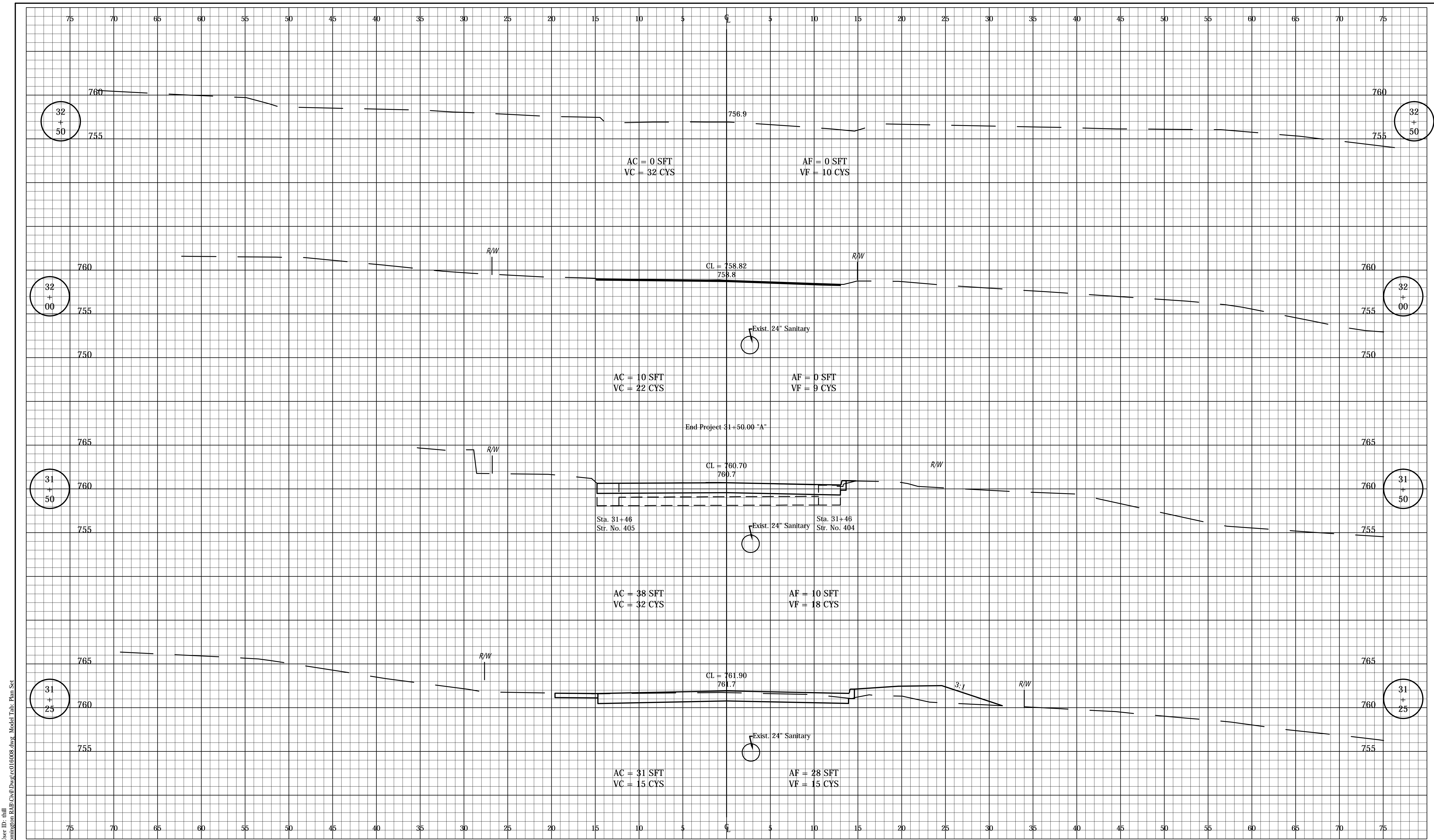
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: _____	FS	DRAWN: _____
CHECKED: _____	ADM	CHECKED: _____
		FS

INDIANA  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
LINE 'A'

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	40 of 53
CONTRACT	PROJECT
R-36022	090173000





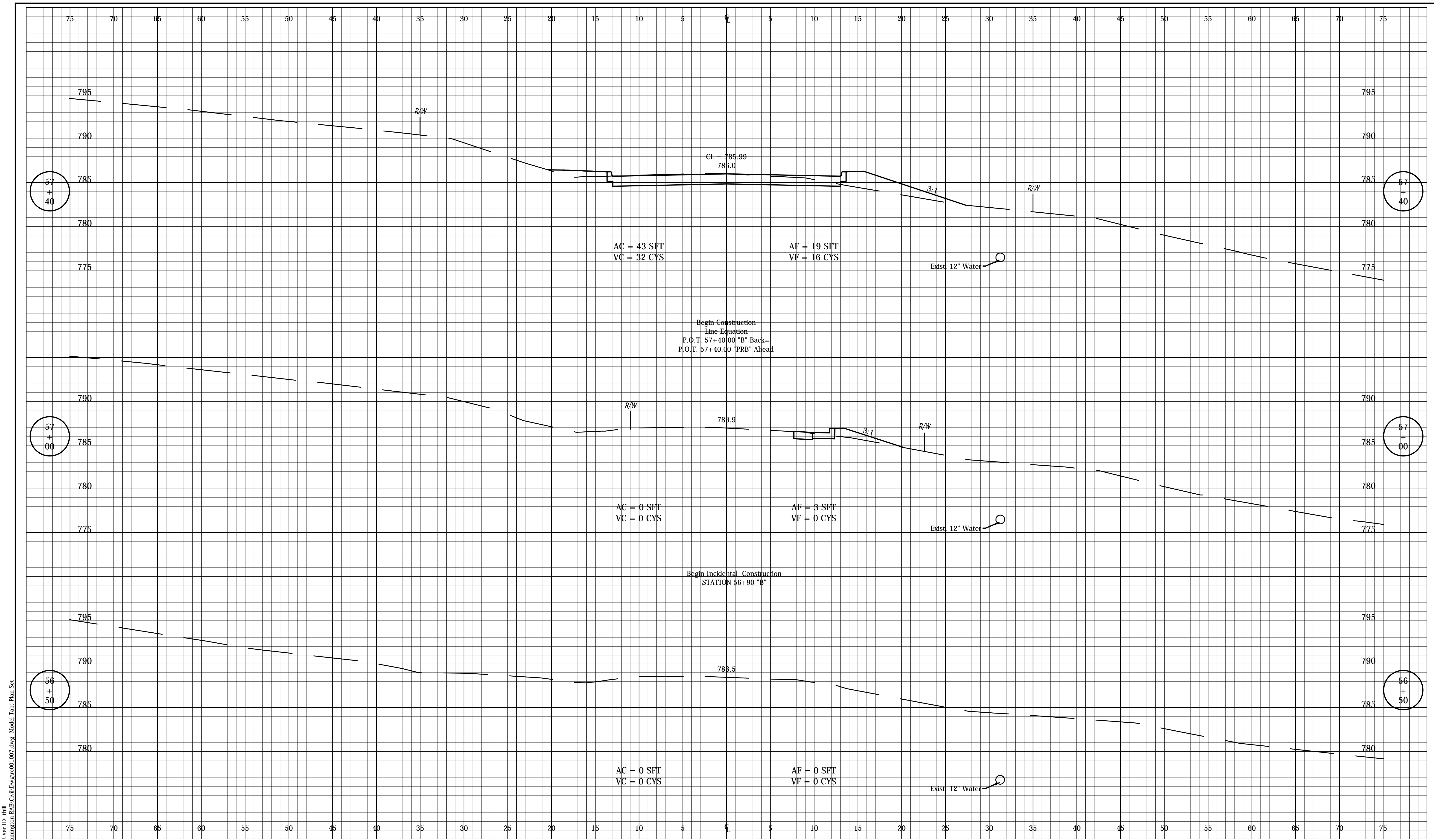
Date: May 11, 2016 9:01am User: D. Hill  
 File: M:\PROJECT\0631\Bloomington\BAB\Chall\Days\c016008.dwg Model Tab: Plan Set



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: _____	DRAWN: _____	
CHECKED: _____	CHECKED: _____	

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
  
**CROSS SECTIONS**  
**LINE 'A'**

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	41 of 53
CONTRACT	PROJECT
R-36022	090173000



Begin Construction  
 Line Equation  
 P.O.T: 57+40.00 "B" Back=  
 P.O.T: 57+40.00 "PRB" Ahead

Begin Incidental Construction  
 STATION 56+90 "B"

Date: Mar 09 2016 12:44pm User ID: jhill  
 File: E:\PROJECTS\0653\0653 - Bloomington RAB\Civil\Drawings\001007.dwg Model Tab: Plan Set

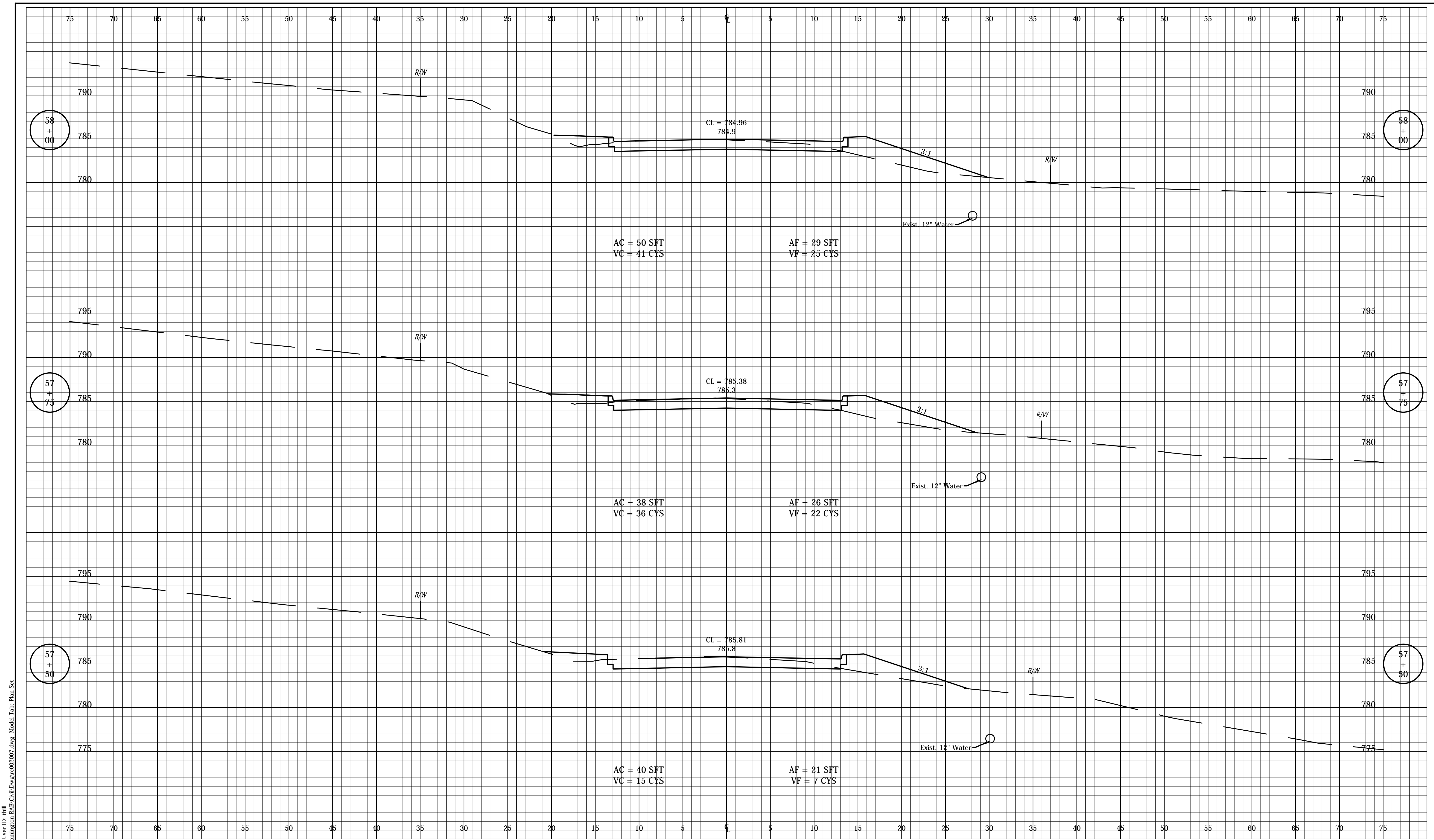


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: _____	DRAWN: _____	
CHECKED: _____	CHECKED: _____	

INDIANA  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 LINE "B" AND LINE "PRB"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	42 of 53
CONTRACT	PROJECT
R-36022	090173000



Date: Mar 09 2016 12:44pm User ID: dhill  
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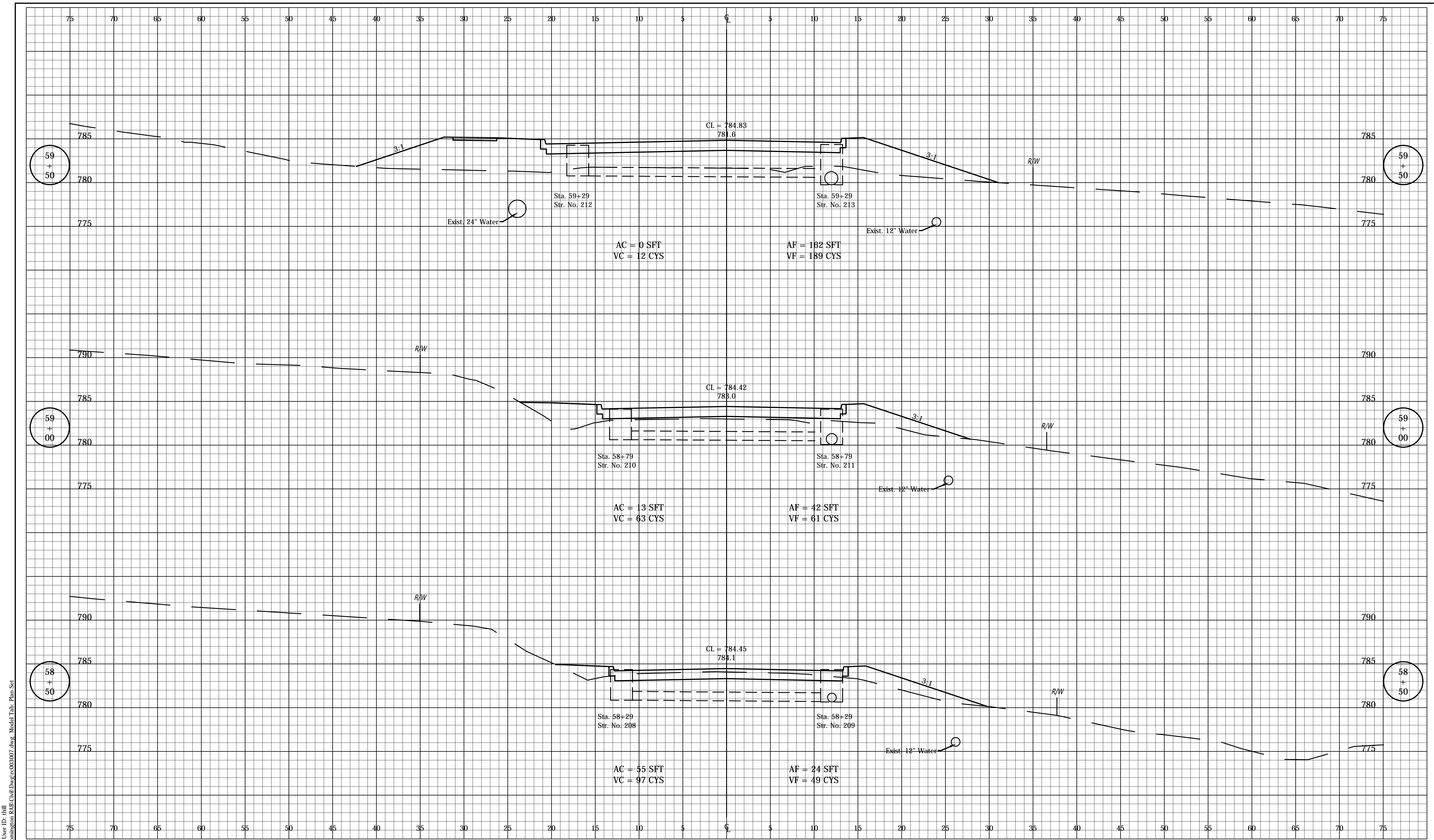


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

INDIANA  
 DEPARTMENT OF TRANSPORTATION

**CROSS SECTIONS  
 LINE "PRB"**

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	43 of 53
CONTRACT	PROJECT
R-36022	090173000



Date: Mar 09 2016 12:45pm User ID: hlll  
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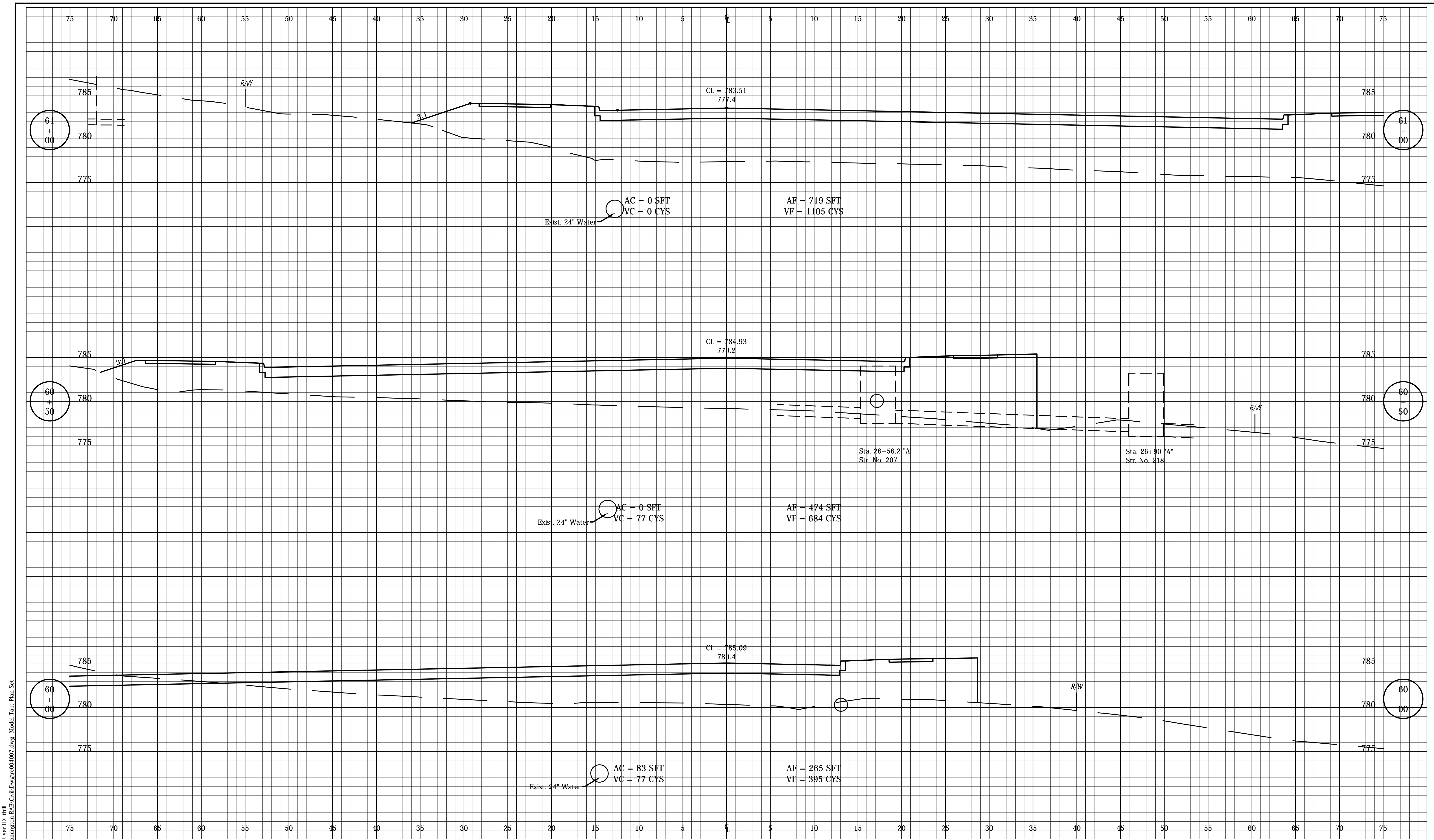
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

INDIANA  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
LINE "PRB"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	44 of 53
CONTRACT	PROJECT
R-36022	090173000





Date: Mar 09 2016 12:45pm User ID: jhill  
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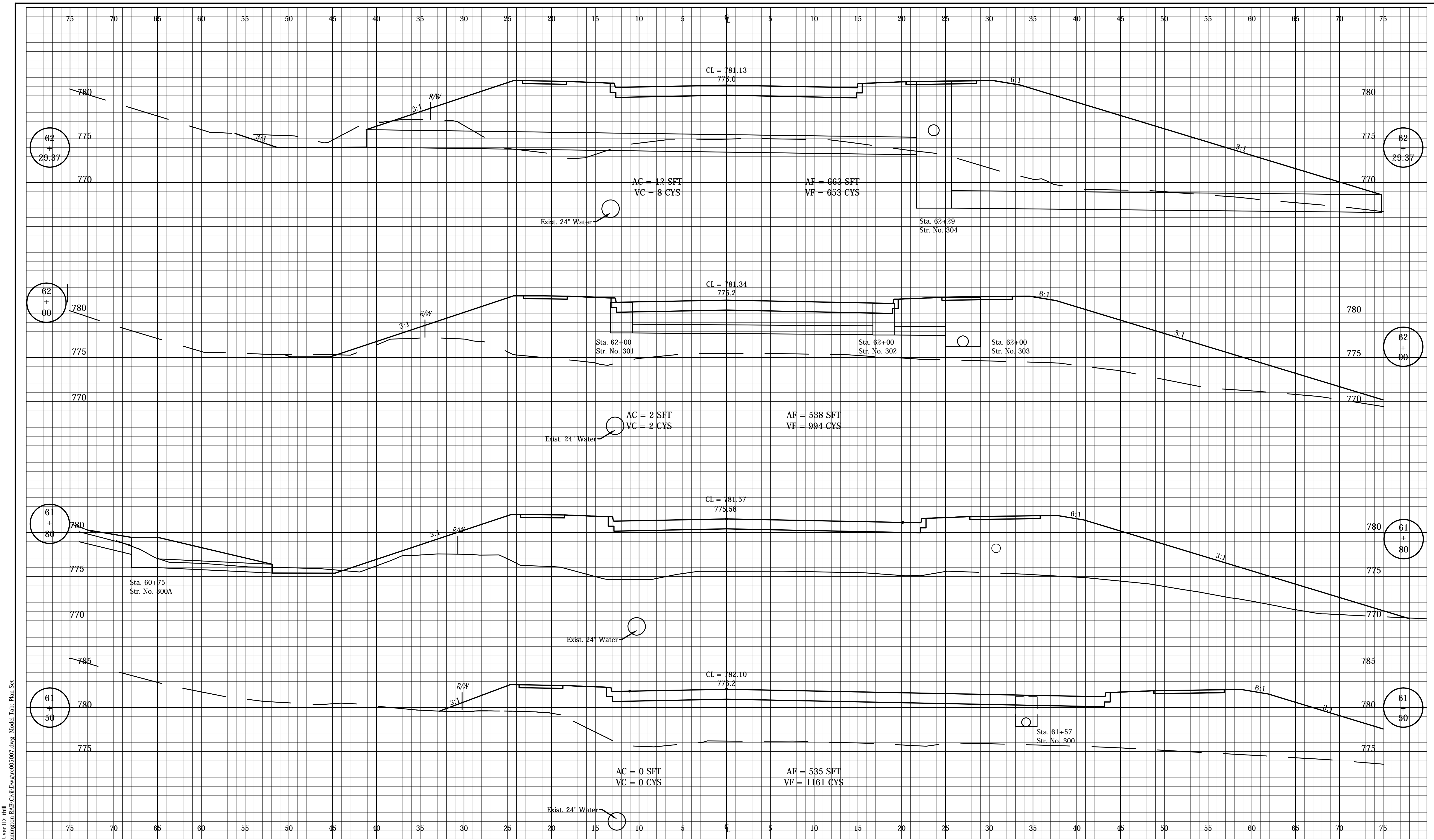


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

INDIANA  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
LINE "PRB"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	45 of 53
CONTRACT	PROJECT
R-36022	090173000



Date: Mar 09 2016 12:45pm User ID: dhll  
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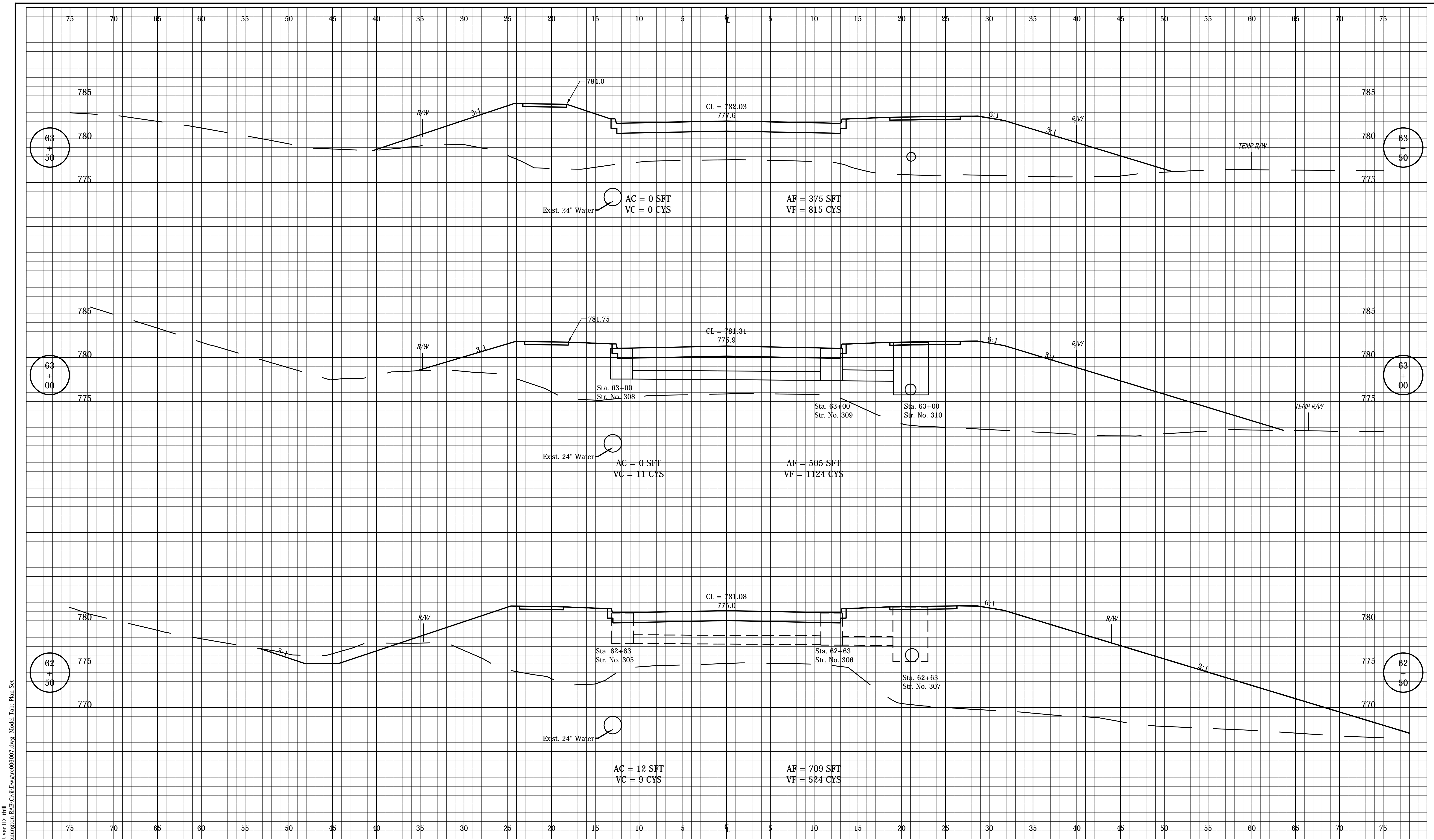


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

INDIANA  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
LINE "PRB"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	46 of 53
CONTRACT	PROJECT
R-36022	090173000



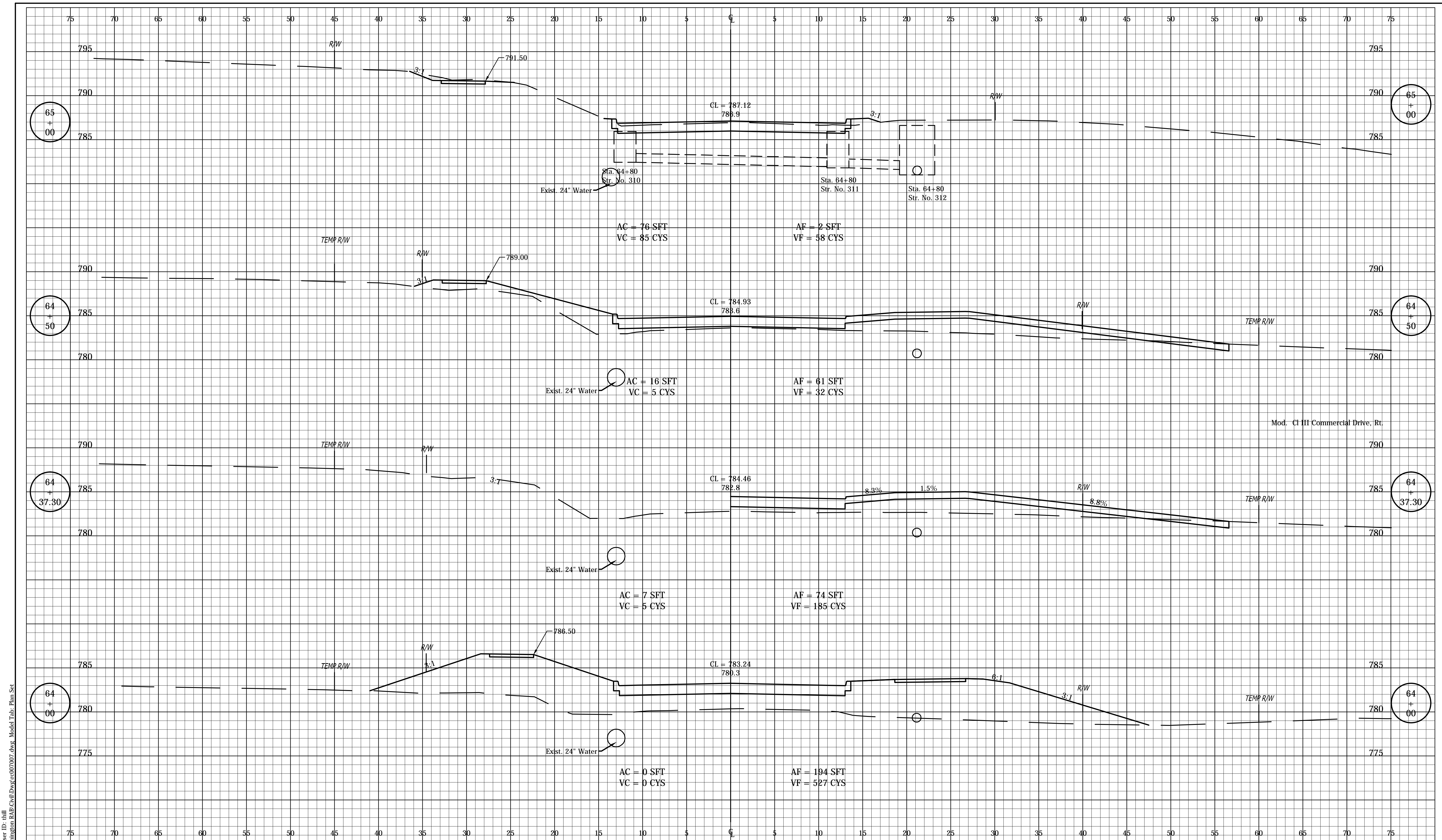
Date: Mar 09 2016 12:45pm User ID: ihill  
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
  
**CROSS SECTIONS**  
**LINE "PRB"**

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	47 of 53
CONTRACT	PROJECT
R-36022	090173000



Date: Mar 09 2016 12:45pm User ID: dhll  
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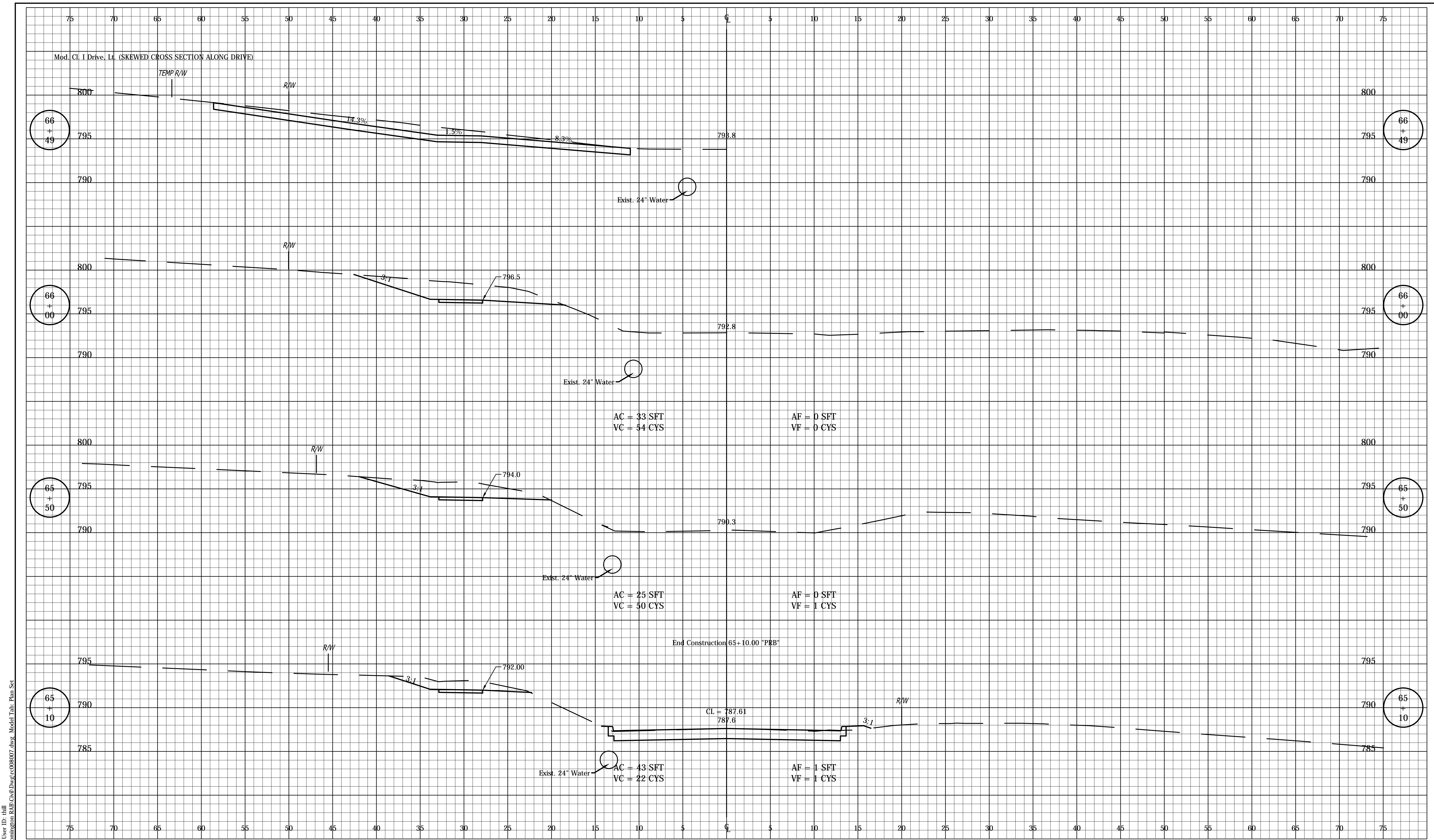
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

INDIANA  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 LINE "PRB"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	48 of 53
CONTRACT	PROJECT
R-36022	090173000





Date: Mar 09 2016 12:45pm User ID: thill  
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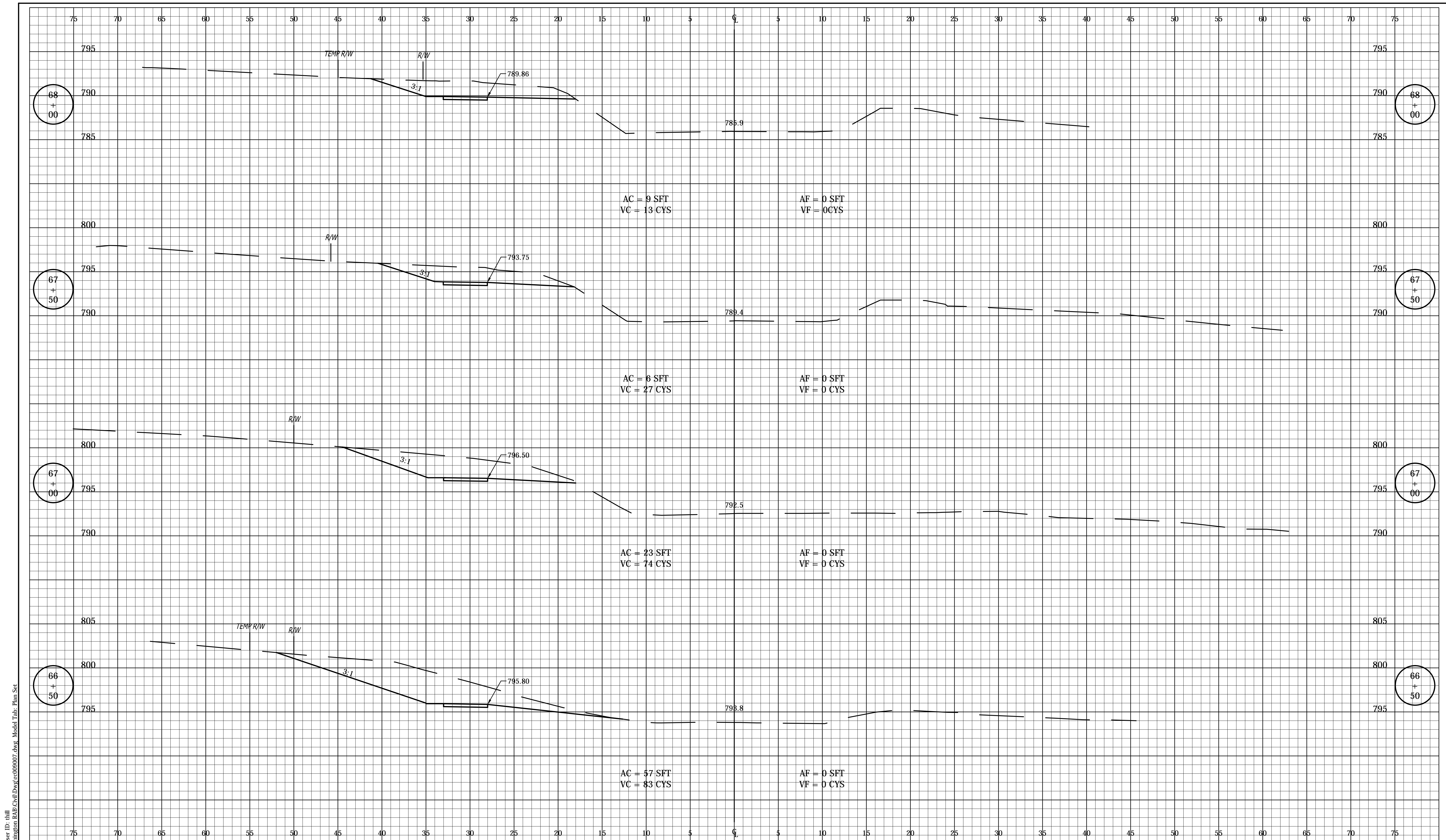


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: _____	FS	DRAWN: _____
CHECKED: _____	ADM	CHECKED: _____
		FS

INDIANA  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
LINE "PRB" AND LINE "B"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	49 of 53
CONTRACT	PROJECT
R-36022	090173000



Date: Mar 09 2016 12:46pm User ID: jhall  
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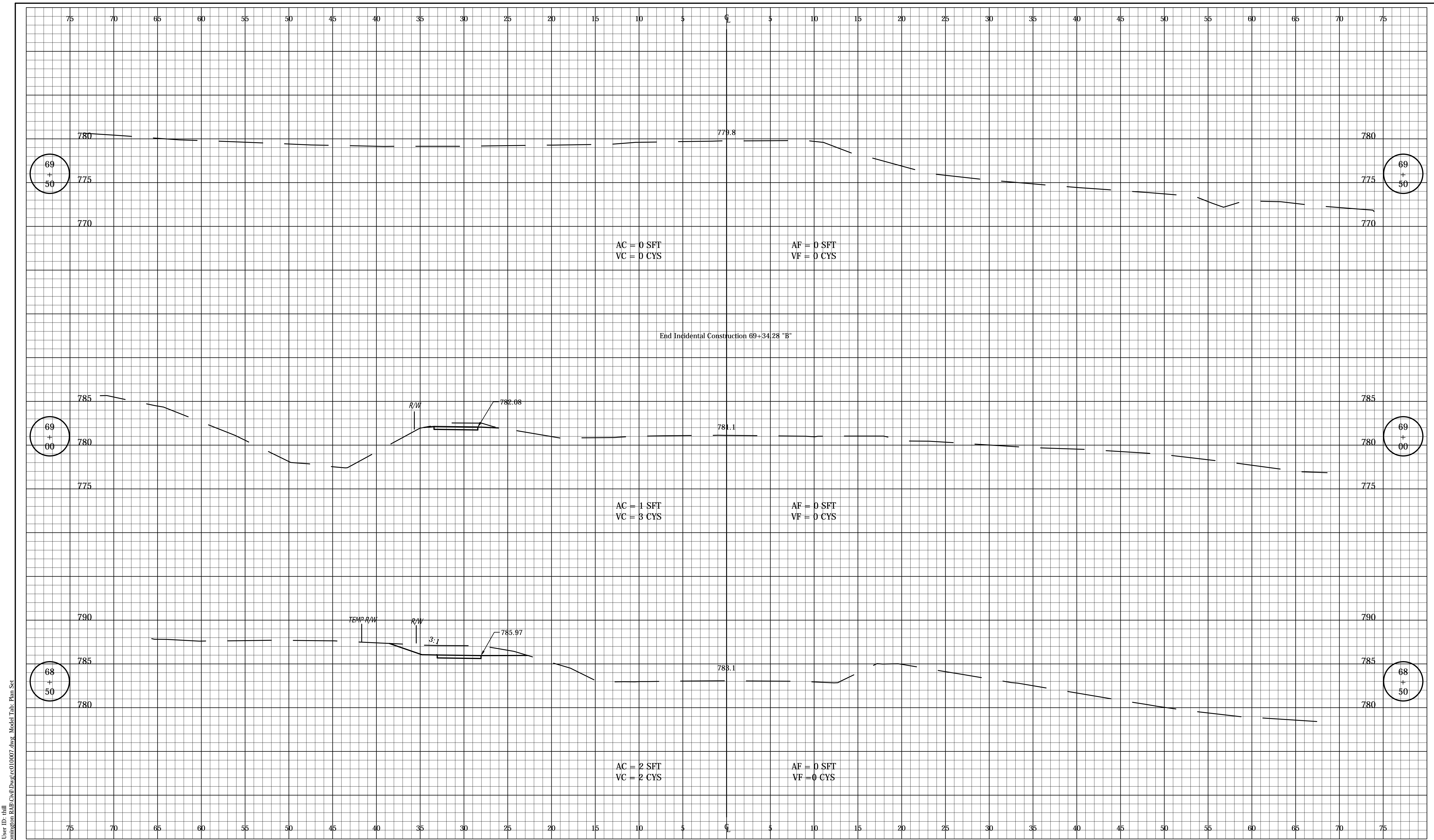


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: _____	DRAWN: _____	
CHECKED: _____	CHECKED: _____	

INDIANA  
DEPARTMENT OF TRANSPORTATION

**CROSS SECTIONS  
LINE "B"**

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	50 of 53
CONTRACT	PROJECT
R-36022	090173000



Date: Mar 09 2016 12:46pm User ID: thill  
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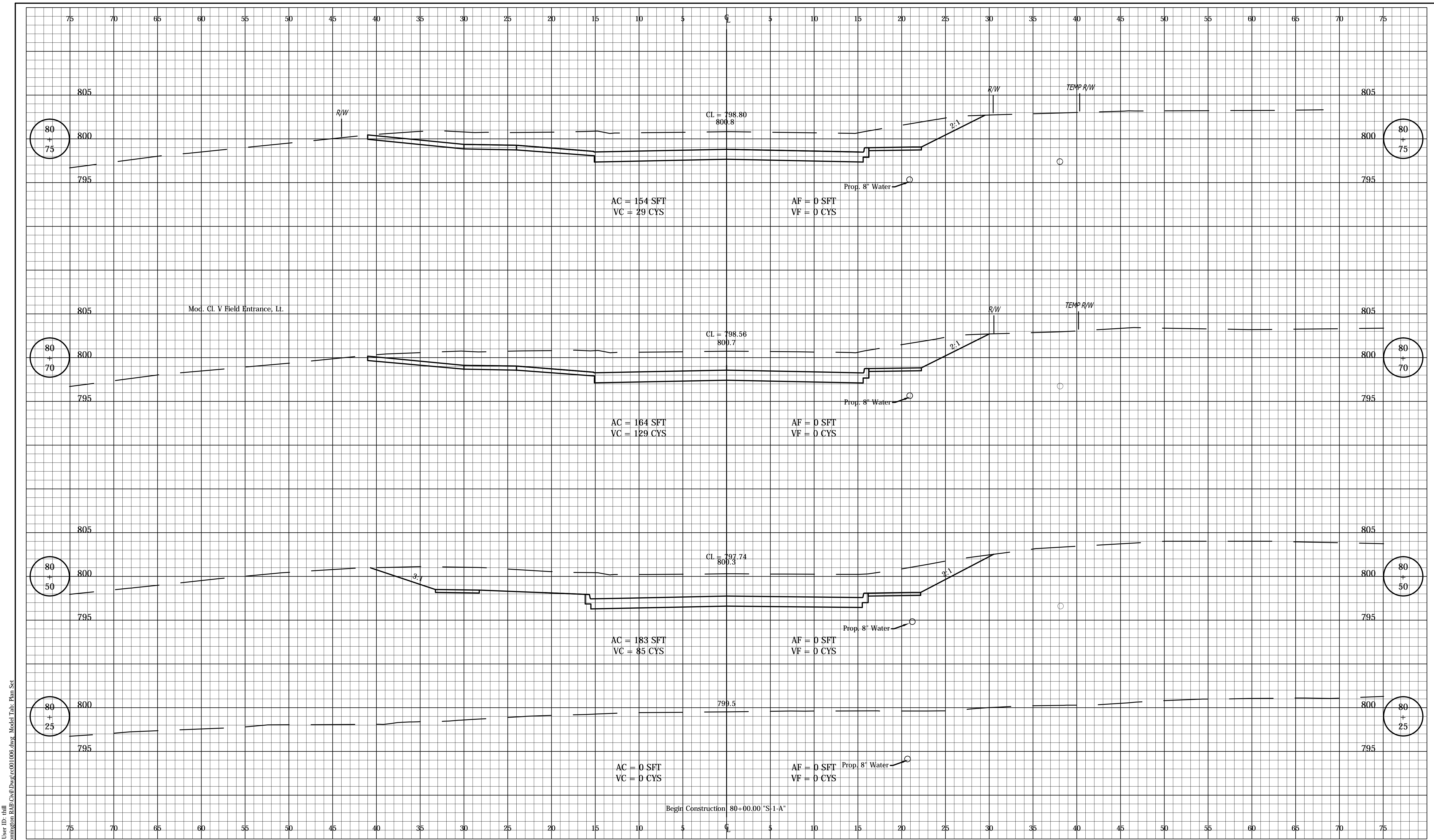


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: _____	FS	DRAWN: _____
CHECKED: _____	ADM	CHECKED: _____
		FS

INDIANA  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
LINE "B"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	51 of 53
CONTRACT	PROJECT
R-36022	090173000



Date: Mar 09 2016 12:46pm User ID: jhall  
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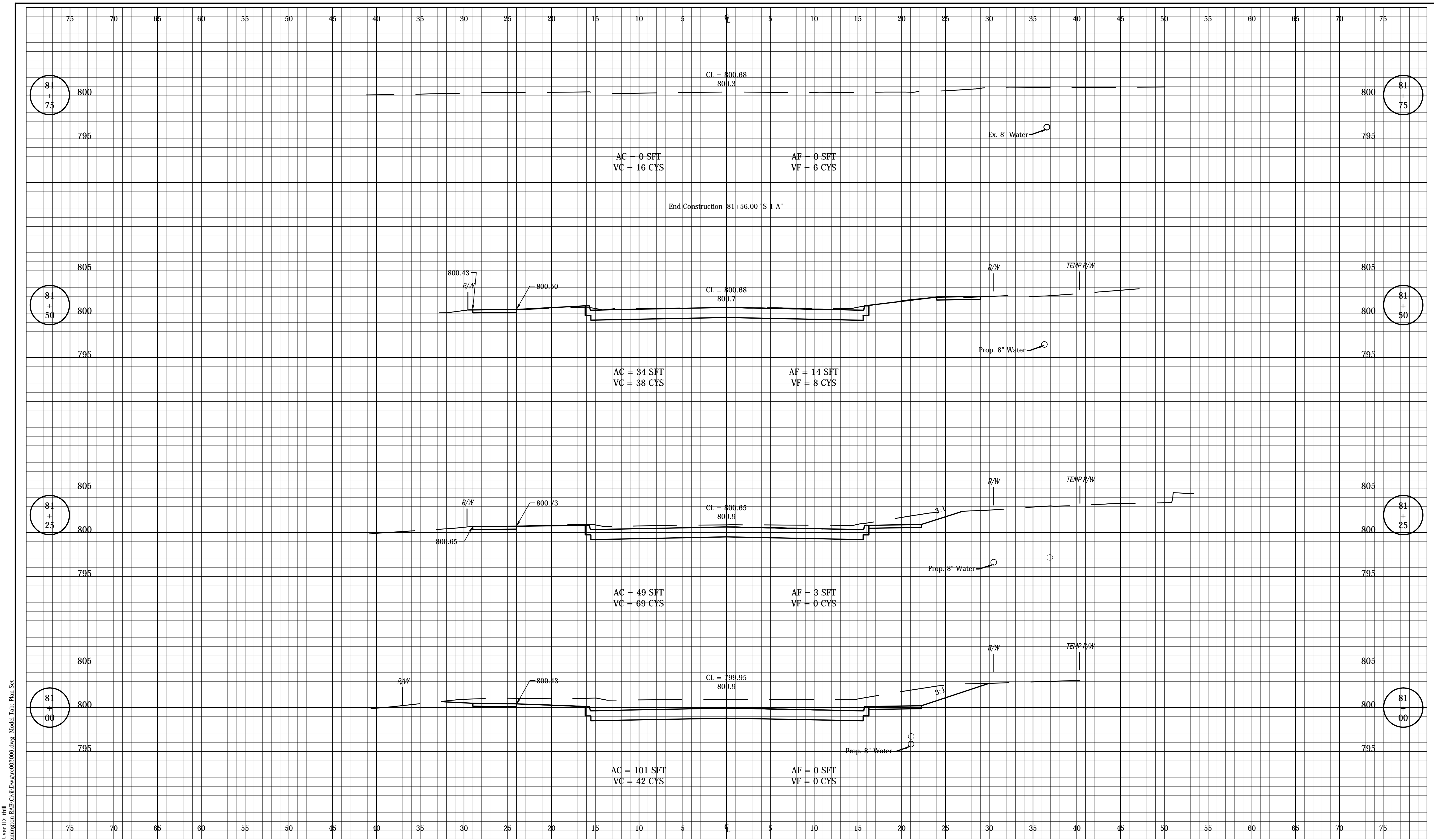
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

INDIANA  
DEPARTMENT OF TRANSPORTATION

**CROSS SECTIONS**  
**LINE 'S-1-A'**

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	52 of 53
CONTRACT	PROJECT
R-36022	090173000





Date: Mar 09 2016 12:46pm User ID: hlll  
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: FS	DRAWN: DPH	
CHECKED: ADM	CHECKED: FS	

INDIANA  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 LINE 'S-1-A'

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	---
VERTICAL SCALE	DESIGNATION
1" = 5'	0901730
SURVEY BOOK	SHEETS
---	53 of 53
CONTRACT	PROJECT
R-36022	090173000