PROJECT	DESIGNATION
1600719	1600719
CONTRACT	BRIDGE FILE
B-40273	15-00108

STRUCTURE DATA				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
15-00108	Composite Prestressed Concrete Bulb-Tee Beam	Single Span: 109'-0" Skew: 0°	Johnson Fork Creek	10+04.50 Line "PR-A"

INDIANA DEPARTMENT OF TRANSPORTATION

STAGE 2 PLANS
NOVEMBER 2020

BRIDGE PLANS

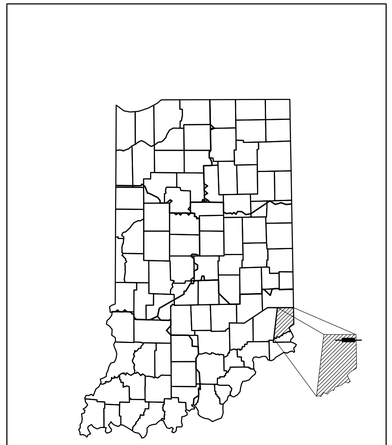
FOR SPANS OVER 20 FEET

ROUTE: HARRISON-BROOKVILLE ROAD AT JOHNSON FORK CREEK

PROJECT NO. 1600719 P.E.
1600719 R/W
1600719 CONST.

Bridge Replacement on Harrison-Brookville Road over Johnson Fork Creek Interchange
Located approximately 1.05 miles east of Interstate 74/State Road 52
Sections 11, 12, 13 & 14, Township 7N, Range 1W, Harrison Township, Dearborn County.

TRAFFIC DATA		HARRISON-BROOKVILLE ROAD	JOHNSON FORK ROAD
A.A.D.T.	(2022)	3,344 V.P.D.	1,650 V.P.D.
A.A.D.T.	(2042)	4,079 V.P.D.	2,015 V.P.D.
D.H.V	(2042)	449 V.P.D.	222 V.P.D.
DIRECTIONAL DISTRIBUTION		44% EB / 56% WB	48% NB / 52% SB
TRUCKS		8% A.A.D.T.	3% A.A.D.T.
		1% D.H.V.	1% D.H.V.
DESIGN DATA			
DESIGN SPEED		55 M.P.H.	40 M.P.H.
PROJECT DESIGN CRITERIA		3R NON-FREEWAY	3R NON-FREEWAY
FUNCTIONAL CLASSIFICATION		MINOR ARTERIAL	MINOR COLLECTOR
RURAL/URBAN		RURAL	RURAL
TERRAIN		LEVEL	LEVEL
ACCESS CONTROL		NONE	NONE

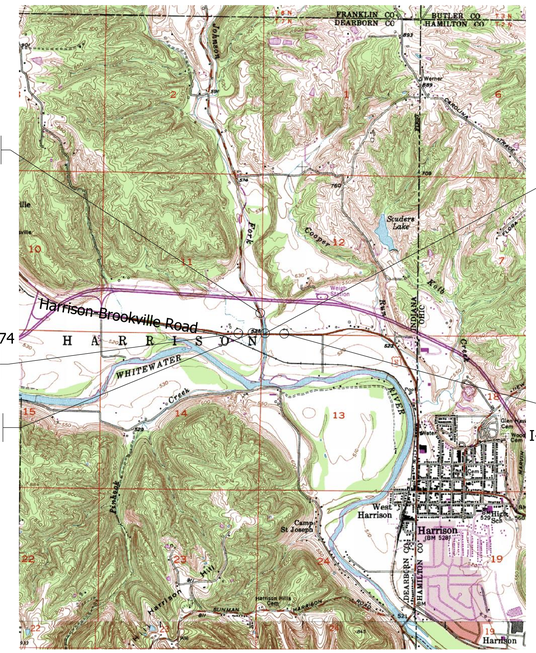


PROJECT LOCATION SHOWN BY
Dearborn County

LATITUDE: 39°16'35"N LONGITUDE: 84°50'15"W

BRIDGE LENGTH:	0.021	MI.
ROADWAY LENGTH:	0.245	MI.
TOTAL LENGTH:	0.266	MI.
MAX. GRADE:	3.25	%

HUC: 05080003080110



SCALE: 1"=2000'

DEARBORN COUNTY COMMISSIONERS

Jim Thatcher, President — Date

Art Little, Member — Date

Rick Probst, Member — Date

DEARBORN COUNTY AUDITOR

Connie Fromhold — Date

DEARBORN COUNTY ENGINEER

J. Todd Listerman, PE — Date
Employee in Responsible Charge

SCALES:

PLAN 20 10 0 20 40
SCALE: 1" = 20'

PROFILE HORIZ. 20 10 0 20 40
SCALE: 1" = 20'

PROFILE VERT. 5 2.5 0 5 10
SCALE: 1" = 5'

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 SCALES ABOVE MAY BE USED.

CERTIFIED BY:
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA NO.
COVERING OVERALL DESIGN — DATE

CERTIFIED BY:
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA NO.
COVERING CIVIL DESIGN — DATE

CERTIFIED BY:
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA NO.
COVERING BRIDGE DESIGN — DATE

NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

PLANS PREPARED BY:
DLZ INDIANA, LLC
157 E MARYLAND ST,
INDIANAPOLIS, IN 46204
(317)663-4120

APPROVED
FOR LETTING:
INDIANA DEPARTMENT OF TRANSPORTATION — DATE

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2020
TO BE USED WITH THESE PLANS.

BRIDGE FILE	
15-00108	
DESIGNATION	
1600719	
SHEETS	
1 of 38	
CONTRACT	PROJECT
B-40273	1600719

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UTILITIES

Electric: Duke Energy
2727 Central Ave.
Columbus, IN 47201
Phone: 812-221-5951
Contact: Chifundo Elliot Kanchewere

Water: Tri-Township Water Corporation
24192 State Line Road
Lawrenceburg, IN 47025
Phone: 812-637-1039
Contact: Jody Blasdel

Gas: Sycamore Gas Company
1155 East Eads Parkway
Greendale, IN 47025
Phone: 877-544-2726
Contact: Aaron Lambert

Fiber Optics: Level 3 Communications
One Technology Center
Attn: Relocations Dept.
Tulsa, Oklahoma 74103
Contact: Marsha Kidd
Phone: 612-605-5508

ZAYO Bandwith
9209 Castlegate Dr.
Indianapolis, IN 46256
Contact: Waylon Higgins
Email: waylon.higgins@zayo.com

Phone/Cable: Cincinnati Bell
221 East 4th Street, Bldg. 343
PO Box 2301
Cincinnati, Ohio 45201
Phone: 513-565-5139
Contact: Chris Ritter

Sanitary Sewer: Dearborn County R.S.D.
215B West High Street
Lawrenceburg, IN 47025
Phone: 812-537-4700
Contact: Kendall Bales,
Hrezo Engineering

REVISIONS

SHEET NO.	DATE	REVISED

INDEX

SHEET NO.	SUBJECT
1	TITLE
2	INDEX
3	PLAT #1
4-7	TYPICAL SECTIONS & DETAILS
8	STAGING DETAILS
9-11	MOT PLANS
12-14	PLAN & PROFILE - LINE "PR-A"
15	PLAN & PROFILE - LINE "PR-S-1-A"
16	SUPERELEVATION SHEET
17-19	SOIL BORINGS
20	LAYOUT
21-22	GENERAL PLAN
23	BRIDGE SUMMARY
24	MISCELLANEOUS TABLES
25-35	CROSS SECTIONS - LINE "PR-A"
36-38	CROSS SECTIONS - LINE "PR-S-1-A"

DLZ

NOT FOR CONSTRUCTION

DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: JFM DRAWN: JLM

CHECKED: MAK CHECKED: JFM

INDIANA
DEPARTMENT OF TRANSPORTATION

INDEX

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	15-00108
VERTICAL SCALE	DESIGNATION
AS NOTED	1600719
	SHEETS
	2 of 38
CONTRACT	PROJECT
B-40273	1600719

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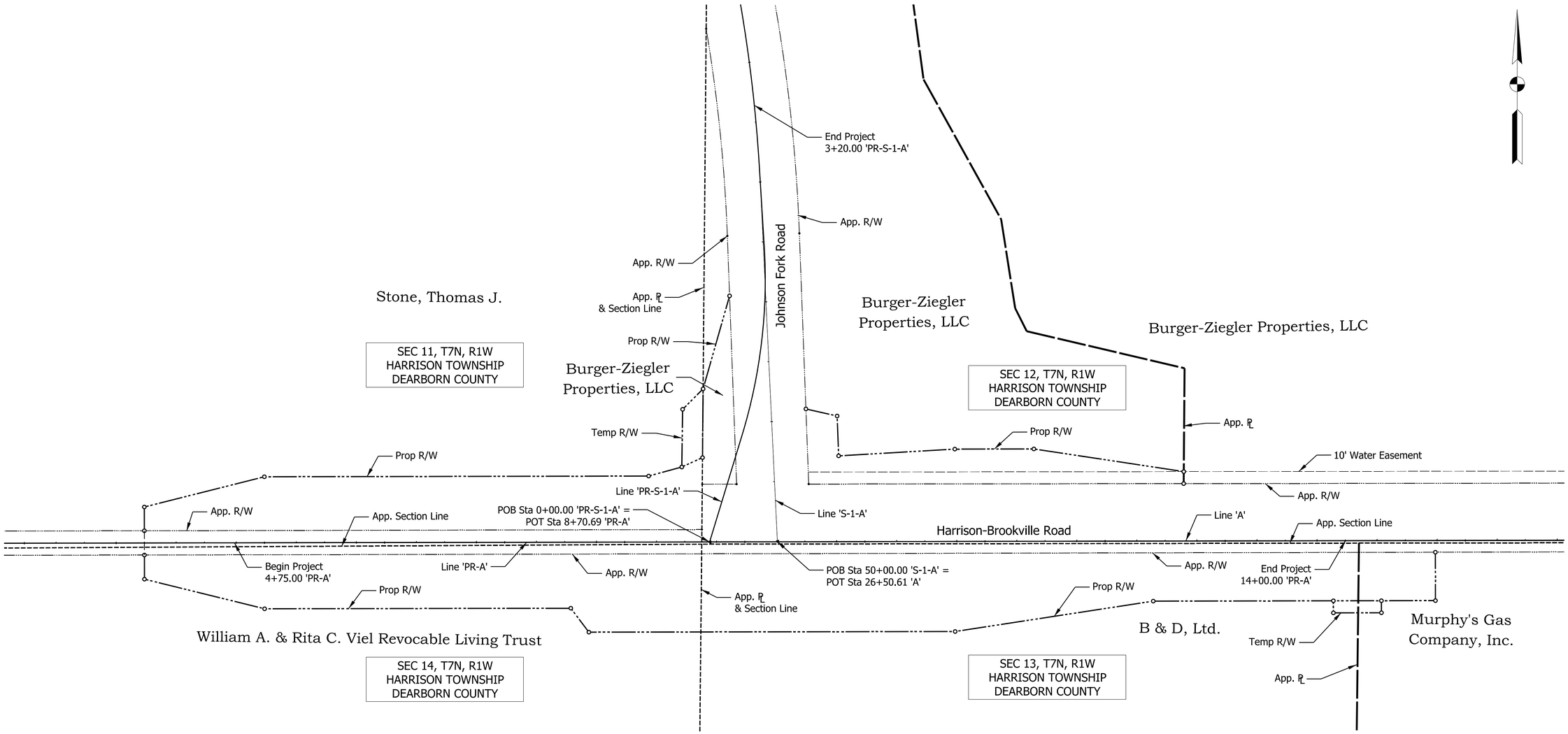

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11/9/2020

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DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

DESIGNED: AMH | DRAWN: JLM

CHECKED: FS | CHECKED: FS

INDIANA
DEPARTMENT OF TRANSPORTATION

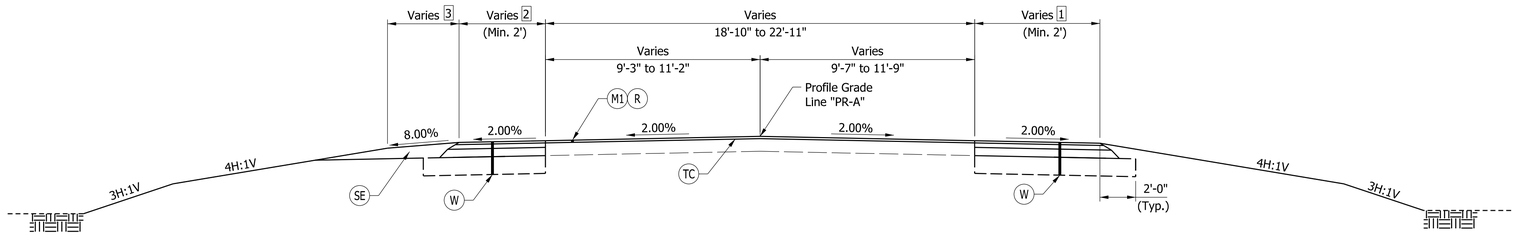
PLAT #1

HORIZONTAL SCALE	BRIDGE FILE
1:5	15-00108
VERTICAL SCALE	DESIGNATION
N.T.S.	1600719
SURVEY BOOK	SHEETS
1600719	3 of 38
CONTRACT	PROJECT
B-40273	1600719

1 HMA Widening LT width varies from 2'-0" at Sta. 4+00.00 to 7'-0" at Sta. 4+75.00.

2 HMA Widening LT width varies from 2'-0" at Sta. 4+00.00 to 4'-10" at Sta. 4+75.00.

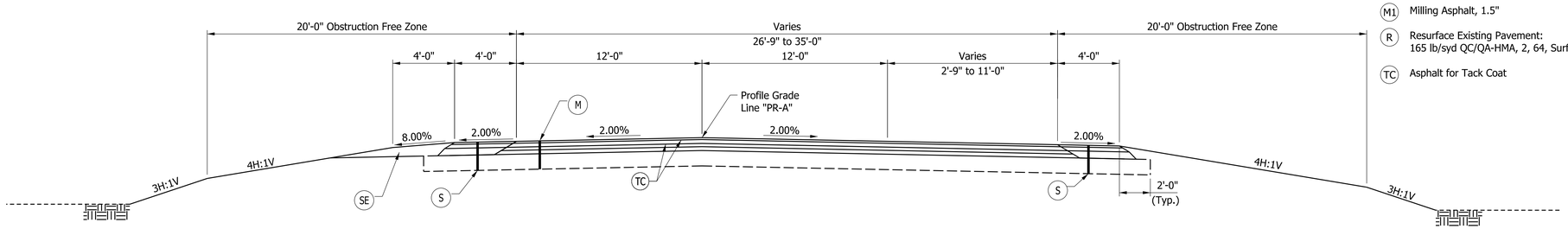
3 Aggregate Shoulder LT width varies from existing width at Sta. 4+00.00 to 4'-0" at Sta. 4+75.00.



TYPICAL INCIDENTAL SECTION - LINE "PR-A"

SCALE: ¼" = 1'-0"

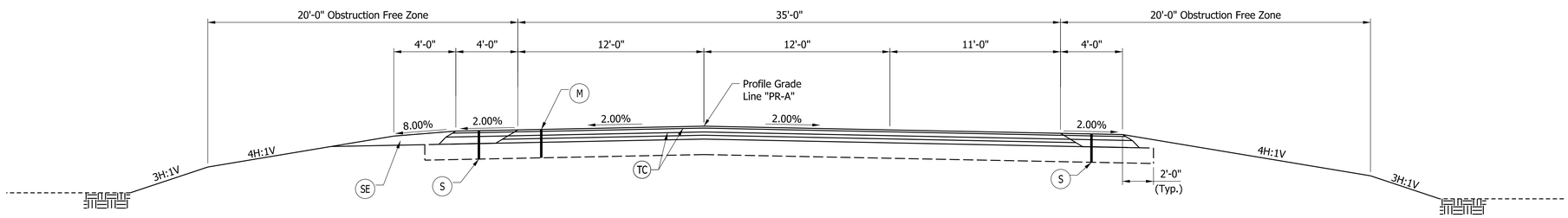
Sta. 4+00.00 "PR-A" to Sta. 4+75.00 "PR-A"



TYPICAL SECTION - LINE "PR-A"

SCALE: ¼" = 1'-0"

Sta. 4+75.00 "PR-A" to Sta. 7+00.00 "PR-A"



TYPICAL SECTION - LINE "PR-A"

SCALE: ¼" = 1'-0"

Sta. 7+00.00 "PR-A" to Sta. 7+32.55 "PR-A"

LEGEND

- (M) Mainline Full-Depth Pavement:
  165#/SYD QC/QA-HMA Surface, 2, 64, 9.5 mm, on
  385#/SYD QC/QA-HMA Intermediate, 2, 64, 19.0 mm, on
  330#/SYD QC/QA-HMA Base, 2, 64, 25.0 mm, on
  4" Compacted Aggregate, No. 53, on
  Subgrade Treatment, Type IBC
- (S) Mainline Paved Shoulder:
  165#/SYD QC/QA-HMA Surface, 2, 64, 9.5 mm, on
  385#/SYD QC/QA-HMA Intermediate, 2, 64, 19.0 mm, on
  7" Compacted Aggregate, No. 53, on
  Subgrade Treatment, Type IBC
- (SE) Variable Depth Compacted Aggregate, No. 53
- (W) Widening with HMA, Type B, consisting of:
  165#/SYD HMA Surface, Type B, on
  385#/SYD HMA Intermediate, Type B, on
  7" Compacted Aggregate, No. 53, on
  Subgrade Treatment, Type IC
- (M1) Milling Asphalt, 1.5"
- (R) Resurface Existing Pavement:
  165 lb/syd QC/QA-HMA, 2, 64, Surface, 9.50mm
- (TC) Asphalt for Tack Coat

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11/6/2020

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DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: AMH DRAWN: JLM

CHECKED: FS CHECKED: FS

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
LINE "PR-A"

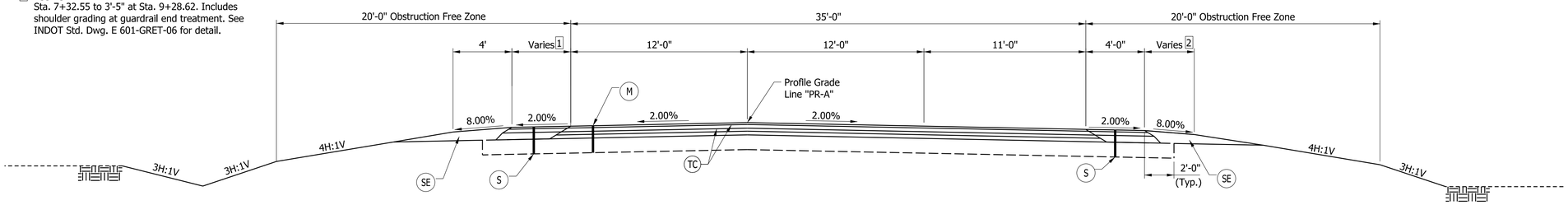
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	15-00108
VERTICAL SCALE	DESIGNATION
N/A	1600719
SURVEY BOOK	SHEETS
1600719	4 of 38
CONTRACT	PROJECT
B-40273	1600719

LEGEND

- (M) Mainline Full-Depth Pavement:
  165#/SYD QC/QA-HMA Surface, 2, 64, 9.5 mm, on
  385#/SYD QC/QA-HMA Intermediate, 2, 64, 19.0 mm, on
  330#/SYD QC/QA-HMA Base, 2, 64, 25.0 mm, on
  4" Compacted Aggregate, No. 53, on
  Subgrade Treatment, Type IBC
- (S) Mainline Paved Shoulder:
  165#/SYD QC/QA-HMA Surface, 2, 64, 9.5 mm, on
  385#/SYD QC/QA-HMA Intermediate, 2, 64, 19.0 mm, on
  7" Compacted Aggregate, No. 53, on
  Subgrade Treatment, Type IBC
- (SE) Variable Depth Compacted Aggregate, No. 53
- (M1) Milling Asphalt, 1.5"
- (R) Resurface Existing Pavement:
  165 lb/syd QC/QA-HMA, 2, 64, Surface, 9.50mm
- (TC) Asphalt for Tack Coat

1 Paved Shoulder LT width varies from 4'-0" at Sta. 8+12.09 to 14'-1" at Sta. 9+28.62.

2 Aggregate Shoulder RT width varies from 0'-0" at Sta. 7+32.55 to 3'-5" at Sta. 9+28.62. Includes shoulder grading at guardrail end treatment. See INDOT Std. Dwg. E 601-GRET-06 for detail.



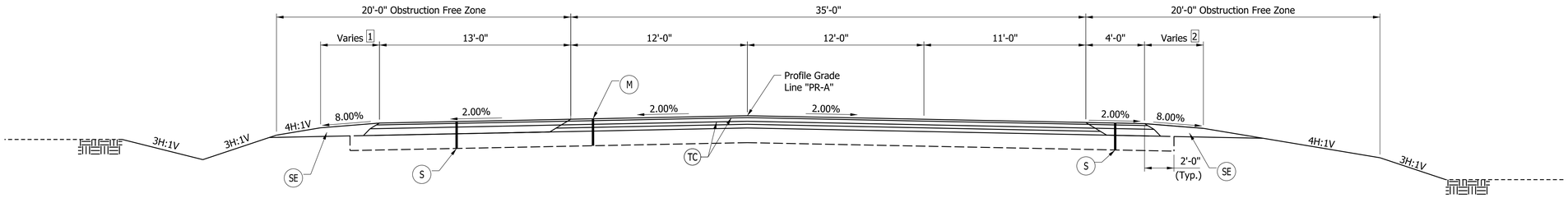
TYPICAL SECTION - LINE "PR-A"

SCALE: ¼" = 1'-0"

Sta. 7+32.55 "PR-A" to Sta. 9+28.62 "PR-A"

1 Aggregate Shoulder LT width varies from 3'-5" at Sta. 11+10.77 to 4'-0" at Sta. 11+13.88. Includes shoulder grading at guardrail end treatment. See INDOT Std. Dwg. E 601-GRET-06 for detail.

2 Aggregate Shoulder RT width varies from 3'-5" at Sta. 11+10.77 to 4'-0" at Sta. 11+13.88. Includes shoulder grading at guardrail end treatment. See INDOT Std. Dwg. E 601-GRET-06 for detail.



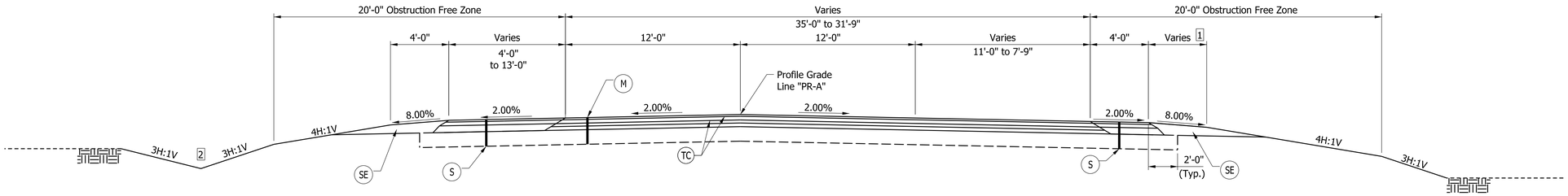
TYPICAL SECTION - LINE "PR-A"

SCALE: ¼" = 1'-0"

Sta. 10+80.38 "PR-A" to Sta. 11+75.00 "PR-A"

1 Aggregate Shoulder RT width varies from 4'-0" at Sta. 11+75.00 to 0'-0" at Sta. 12+38.16.

2 Ditch LT ends at Sta. 12+50.00.



TYPICAL SECTION - LINE "PR-A"

SCALE: ¼" = 1'-0"

Sta. 11+75.00 "PR-A" to Sta. 12+65.00 "PR-A"

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11/6/2020

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DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: AMH DRAWN: JLM

CHECKED: FS CHECKED: FS

INDIANA
DEPARTMENT OF TRANSPORTATION

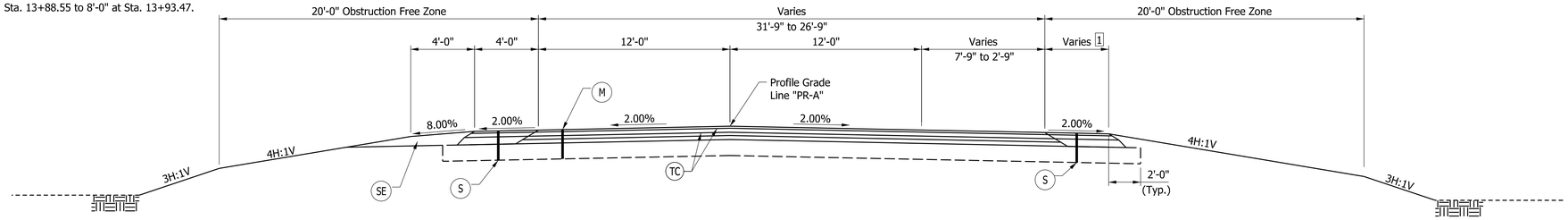
TYPICAL SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	15-00108
VERTICAL SCALE	DESIGNATION
N/A	1600719
SURVEY BOOK	SHEETS
1600719	5 of 38
CONTRACT	PROJECT
B-40273	1600719

LEGEND

- (M) Mainline Full-Depth Pavement:
  165#/SYD QC/QA-HMA Surface, 2, 64, 9.5 mm, on
  385#/SYD QC/QA-HMA Intermediate, 2, 64, 19.0 mm, on
  330#/SYD QC/QA-HMA Base, 2, 64, 25.0 mm, on
  4" Compacted Aggregate, No. 53, on
  Subgrade Treatment, Type IBC
- (S) Mainline Paved Shoulder:
  165#/SYD QC/QA-HMA Surface, 2, 64, 9.5 mm, on
  385#/SYD QC/QA-HMA Intermediate, 2, 64, 19.0 mm, on
  7" Compacted Aggregate, No. 53, on
  Subgrade Treatment, Type IBC
- (SE) Variable Depth Compacted Aggregate, No. 53
- (W) Widening with HMA, Type B, consisting of:
  165#/SYD HMA Surface, Type B, on
  385#/SYD HMA Intermediate, Type B, on
  7" Compacted Aggregate, No. 53, on
  Subgrade Treatment, Type IC
- (M1) Milling Asphalt, 1.5"
- (R) Resurface Existing Pavement:
  165 lb/syd QC/QA-HMA, 2, 64, Surface, 9.50mm
- (TC) Asphalt for Tack Coat

1 Paved Shoulder width varies from 4'-0" at Sta. 13+88.55 to 8'-0" at Sta. 13+93.47.



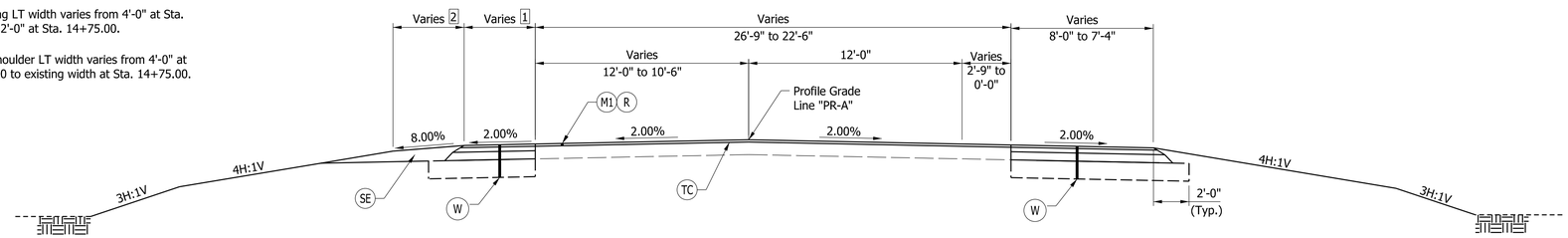
TYPICAL SECTION - LINE "PR-A"

SCALE: ¼" = 1'-0"

Sta. 12+65.00 "PR-A" to Sta. 14+00.00 "PR-A"

1 HMA Widening LT width varies from 4'-0" at Sta. 14+00.00 to 2'-0" at Sta. 14+75.00.

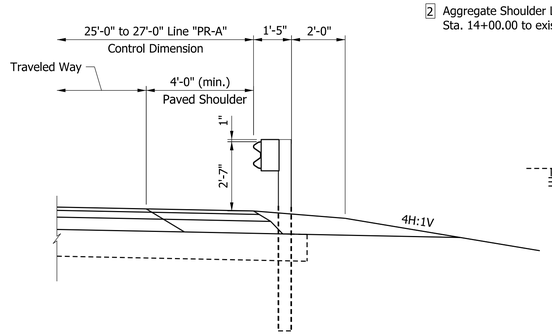
2 Aggregate Shoulder LT width varies from 4'-0" at Sta. 14+00.00 to existing width at Sta. 14+75.00.



TYPICAL INCIDENTAL SECTION - LINE "PR-A"

SCALE: ¼" = 1'-0"

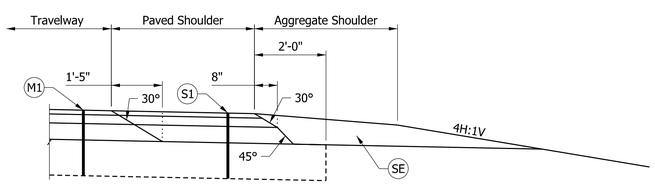
Sta. 14+00.00 "PR-A" to Sta. 14+75.00 "PR-A"



TYPICAL SHOULDER SECTION WITH GUARDRAIL

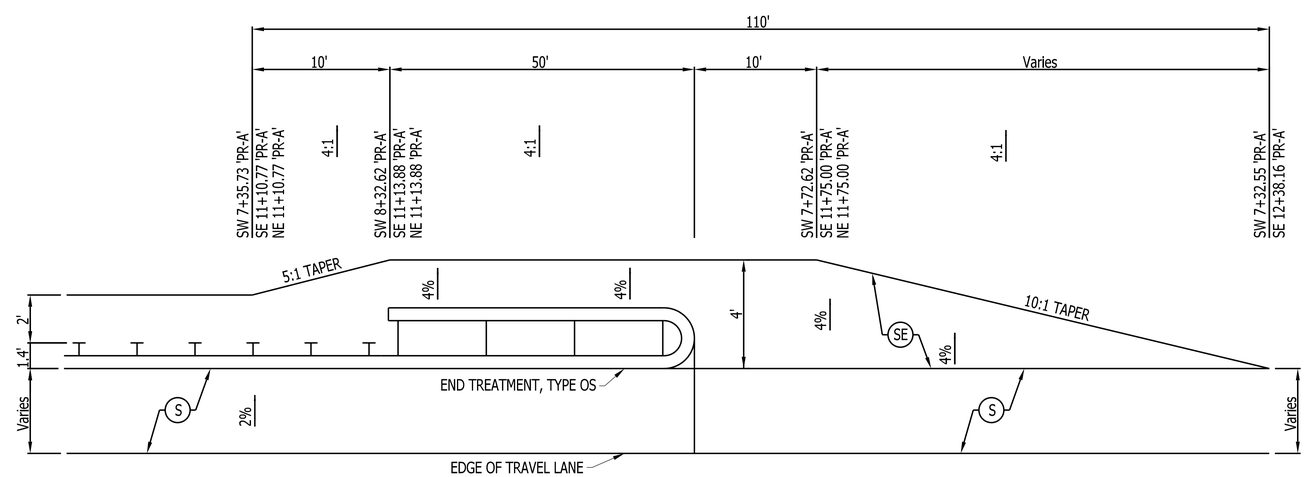
SCALE: ⅜" = 1'-0"

Sta. 1+81.51 "PR-S-1-A" to 9+28.62 "PR-A", Rt.
Sta. 7+82.62 "PR-A" to 9+28.62 "PR-A", Lt.
Sta. 10+80.38 "PR-A" to 11+63.88 "PR-A", Rt.
Sta. 10+80.38 "PR-A" to 11+63.88 "PR-A", Lt.



SAFETY EDGE DETAIL - LINE "PR-A"

SCALE: ½" = 1'-0"



GRADING DETAIL AT GUARDRAIL END TREATMENT, TYPE OS (LINE 'PR-A')

NOT TO SCALE

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11/6/2020

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DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: AMH DRAWN: JLM

CHECKED: FS CHECKED: FS

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	15-00108
VERTICAL SCALE	DESIGNATION
N/A	1600719
SURVEY BOOK	SHEETS
1600719	6 of 38
CONTRACT	PROJECT
B-40273	1600719

LEGEND

(S1) Full-Depth Pavement:
165#/SYD QC/QA-HMA Surface, 2, 64, 9.5 mm, on
385#/SYD QC/QA-HMA Intermediate, 2, 64, 19.0 mm, on
7" Compacted Aggregate, No. 53, on
Subgrade Treatment, Type IBC

(SE) Variable Depth Compacted Aggregate, No. 53 Base

(TC) Asphalt for Tack Coat

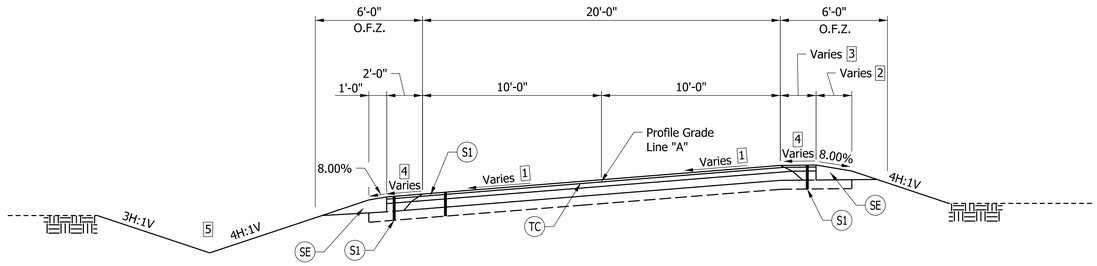
1 Superelevation slope varies. See superelevation details.

2 Aggregate Shoulder width varies from 3'-5" at Sta. 0+75.00 to 1'-0" at Sta. 1+38.87.

3 Paved Shoulder width varies from 4'-5" at Sta. 0+75.70 to 2'-0" at Sta. 1+38.37.

4 Shoulder slope matches lane superelevation slope.

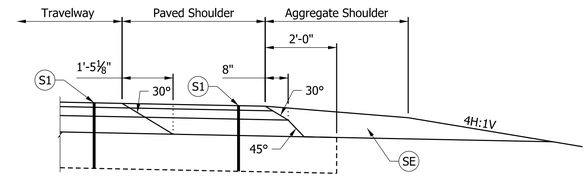
5 Ditch LT begins at Sta. 1+15.00 and ends at 2+50.00.



TYPICAL SECTION - LINE "PR-S-1-A"

SCALE: ¼" = 1'-0"

Sta. 0+75.70 "PR-S-1-A" to Sta. 3+20.00 "PR-S-1-A"



SAFETY EDGE DETAIL - LINE "PR-S-1-A"

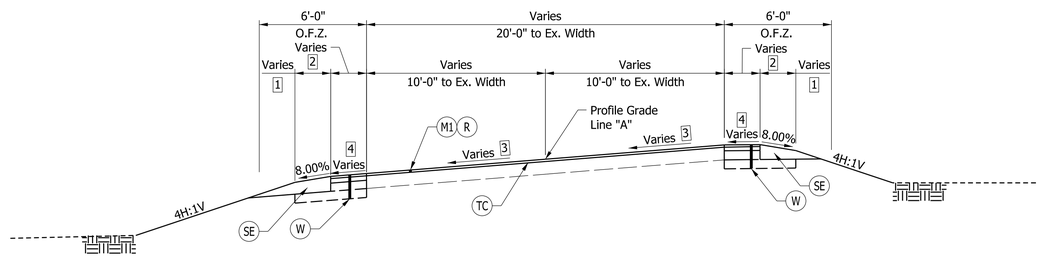
SCALE: ½" = 1'-0"

1 Aggregate Shoulder width varies from 1'-0" at Sta. 1+38.87 to 0'-0" at Sta. 3+20.00.

2 Paved Shoulder width varies from 2'-0" at Sta. 1+38.87 to 0'-0" at Sta. 3+20.00.

3 Superelevation slope varies. See superelevation details.

4 Shoulder slope matches lane superelevation slope. See superelevation details.



TYPICAL INCIDENTAL SECTION - LINE "PR-S-1-A"

SCALE: ¼" = 1'-0"

Sta. 3+20.00 "PR-S-1-A" to Sta. 3+70.00 "PR-S-1-A"

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11/6/2020

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DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

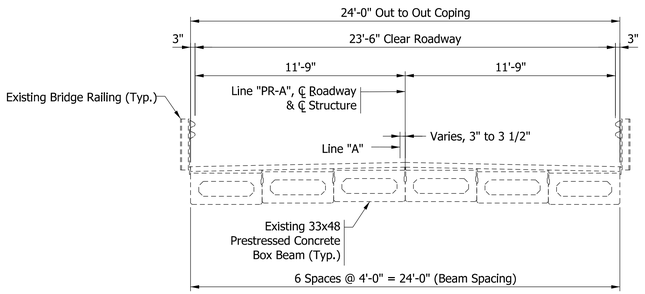
DESIGNED: AMH | DRAWN: JLM

CHECKED: FS | CHECKED: FS

INDIANA
DEPARTMENT OF TRANSPORTATION

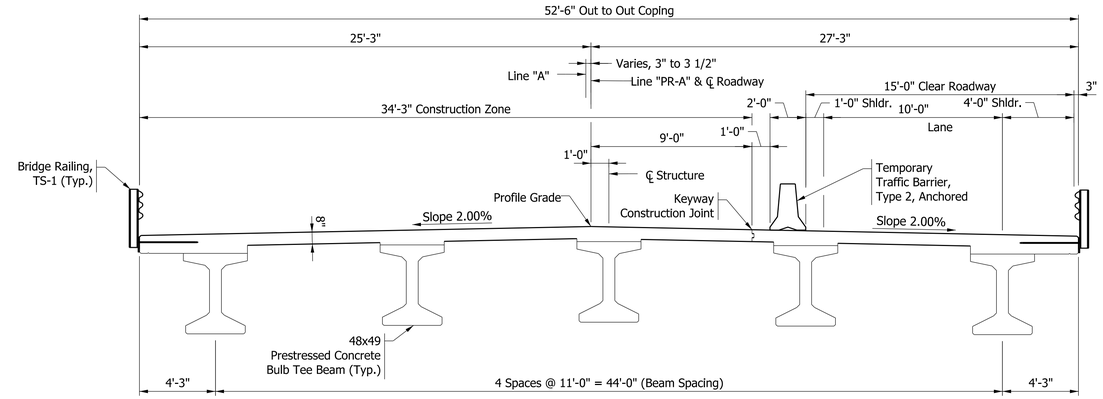
TYPICAL SECTIONS
LINE "PR-S-1-A"

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	15-00108
VERTICAL SCALE	DESIGNATION
N/A	1600719
SURVEY BOOK	SHEETS
1600719	7 of 38
CONTRACT	PROJECT
B-40273	1600719



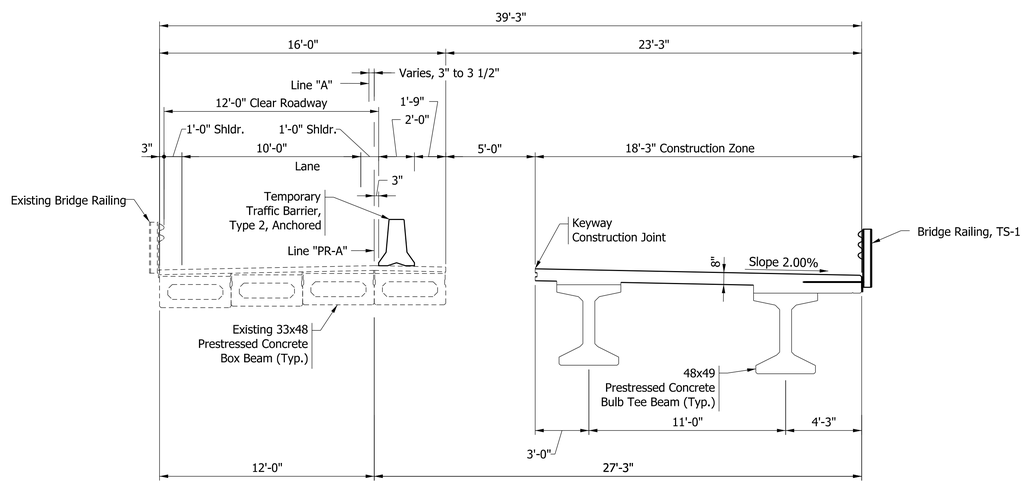
EXISTING TYPICAL SECTION

SCALE: ¼" = 1'-0"



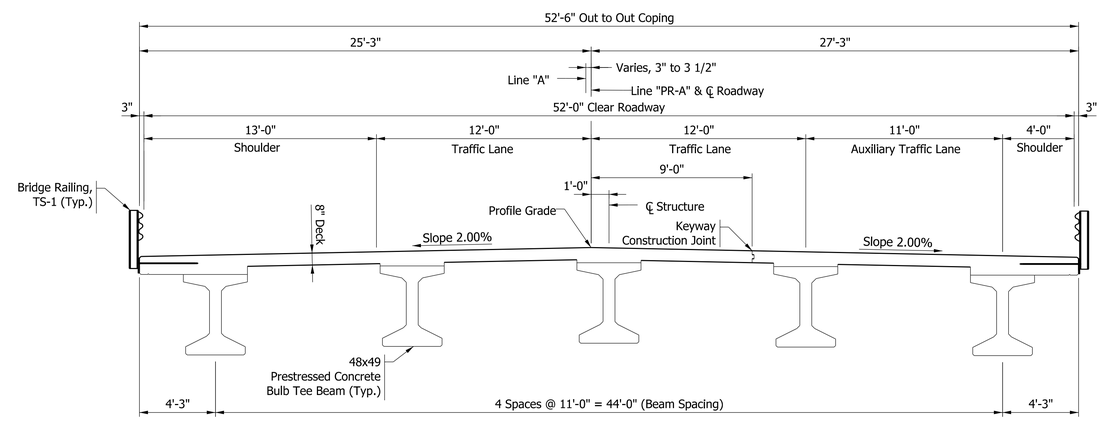
PHASE 2 TYPICAL SECTION

SCALE: ¼" = 1'-0"



PHASE 1 TYPICAL SECTION

SCALE: ¼" = 1'-0"



FINAL TYPICAL SECTION

SCALE: ¼" = 1'-0"

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11/6/2020

DLZ

NOT FOR CONSTRUCTION

DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL

DESIGN ENGINEER DATE

DESIGNED: JFM 10/2020 DRAWN: JLM 10/2020

CHECKED: MAK 10/2020 CHECKED: JFM 10/2020

INDIANA
DEPARTMENT OF TRANSPORTATION

STAGING DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	15-00108
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1600719

SHEETS		
8	of	38
CONTRACT	PROJECT	
B-40273	1600719	

CONSTRUCTION SIGN SCHEDULE	
ITEM	TOTALS
TYPE 'A' SIGN	
R11-2	2 EACH
R11-4	0 EACH
XG20-2	2 EACH
XW20-1	2 EACH
XW20-4	2 EACH
XW2-6-A	2 EACH
W3-3	2 EACH
TOTAL TYPE 'A' SIGN	12 EACH
TYPE 'B' SIGN	
R10-6(R)	2 EACH
W13-1	2 EACH
TOTAL TYPE 'B' SIGN	4 EACH
DETOUR ROUTE MARKER ASSEMBLY	0 EACH
ROAD CLOSURE SIGN ASSEMBLY	2 EACH
TYPE III-A BARRICADE	60 LFT
TYPE III-B BARRICADE	0 LFT

*NOTE: Signs Used in Phase I will be Repositioned as needed For use in Phase II.

ROAD CLOSURE SIGN ASSEMBLIES

ROAD CLOSED TO THRU TRAFFIC — R11-4, 60" X 30"

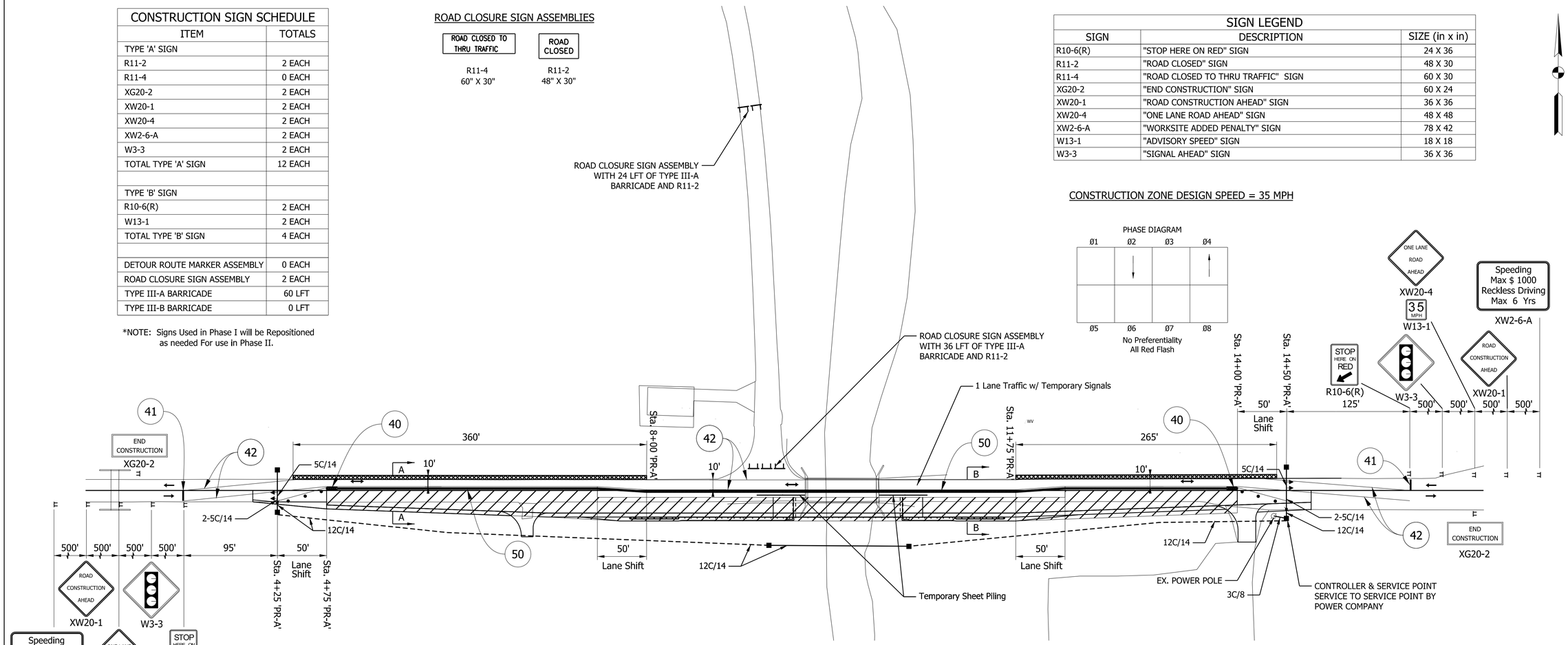
ROAD CLOSED — R11-2, 48" X 30"

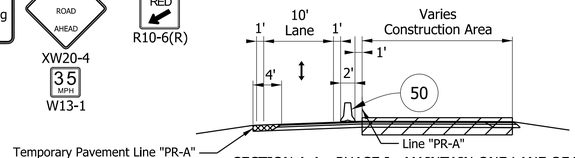
SIGN LEGEND		
SIGN	DESCRIPTION	SIZE (in x in)
R10-6(R)	"STOP HERE ON RED" SIGN	24 X 36
R11-2	"ROAD CLOSED" SIGN	48 X 30
R11-4	"ROAD CLOSED TO THRU TRAFFIC" SIGN	60 X 30
XG20-2	"END CONSTRUCTION" SIGN	60 X 24
XW20-1	"ROAD CONSTRUCTION AHEAD" SIGN	36 X 36
XW20-4	"ONE LANE ROAD AHEAD" SIGN	48 X 48
XW2-6-A	"WORKSITE ADDED PENALTY" SIGN	78 X 42
W13-1	"ADVISORY SPEED" SIGN	18 X 18
W3-3	"SIGNAL AHEAD" SIGN	36 X 36

CONSTRUCTION ZONE DESIGN SPEED = 35 MPH

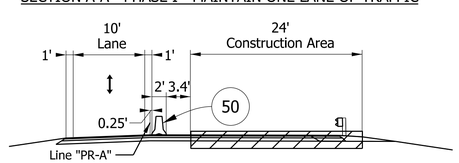
PHASE DIAGRAM

No Preferentiality
All Red Flash





SECTION A-A - PHASE I - MAINTAIN ONE LANE OF TRAFFIC



SECTION B-B - PHASE I - MAINTAIN ONE LANE OF TRAFFIC

Sequence Of Construction
Phase I
1. Maintain One-Way Traffic On WB Lanes of Harrison-Brookville Road Utilizing Temporary Traffic Signal.
2. Close Johnson Fork Road And Provide Detour Route.
3. Construct EB Lanes Of Harrison-Brookville Road And Bridge.

Notes:
1. Contractor Shall Maintain Access to all Public and Private Drive Approaches Durning Construction.
2. Channelizing Devices to be Placed at 35' Interval on Tapers and 70' on Tangents.
3. All Signs, Barricades, and Pavement Markings Shall Conform to the Indiana Manual on Uniform Traffic Control Devices for Streets and Highways, 2011 and Any Current Supplements Thereto.

LEGEND

- WORK ZONE
- OR STANDARD DRUMS
- TYPICAL SIGN
- DIRECTION OF TRAVEL
- TEMPORARY 3-SECTION SIGNAL INDICATION
- TEMPORARY WOODEN SIGNAL POLES
- TEMP. DISCONNECT HANGER
- 2" PVC CONDUIT
- EXISTING POWER POLE
- (40) ENERGY ABSORBING TERMINAL, CZ, TL-2
- (41) TEMP. PAVEMENT MARKING, REMOVABLE, SOLID, WHITE, 24"
- (42) TEMP. PAVEMENT MARKING, REMOVABLE, SOLID, WHITE, 4"
- (50) TEMPORARY TRAFFIC BARRIER, TYPE 2, ANCHORED
- HMA FOR TEMPORARY PAVEMENT, TYPE B, TO CONSIST OF: 330 #/SYD SURFACE, TYPE B ON 385 #/SYD INTERMEDIATE, TYPE B ON 6" COMPACTED AGGREGATE, NO. 53

DLZ

NOT FOR CONSTRUCTION

DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: AMH DRAWN: AMH

CHECKED: FS CHECKED: FS

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PLAN - PHASE I

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	15-00108
VERTICAL SCALE	DESIGNATION
1" = 5'	1600719
SURVEY BOOK	SHEETS
1600719	9 of 38
CONTRACT	PROJECT
B-40273	1600719

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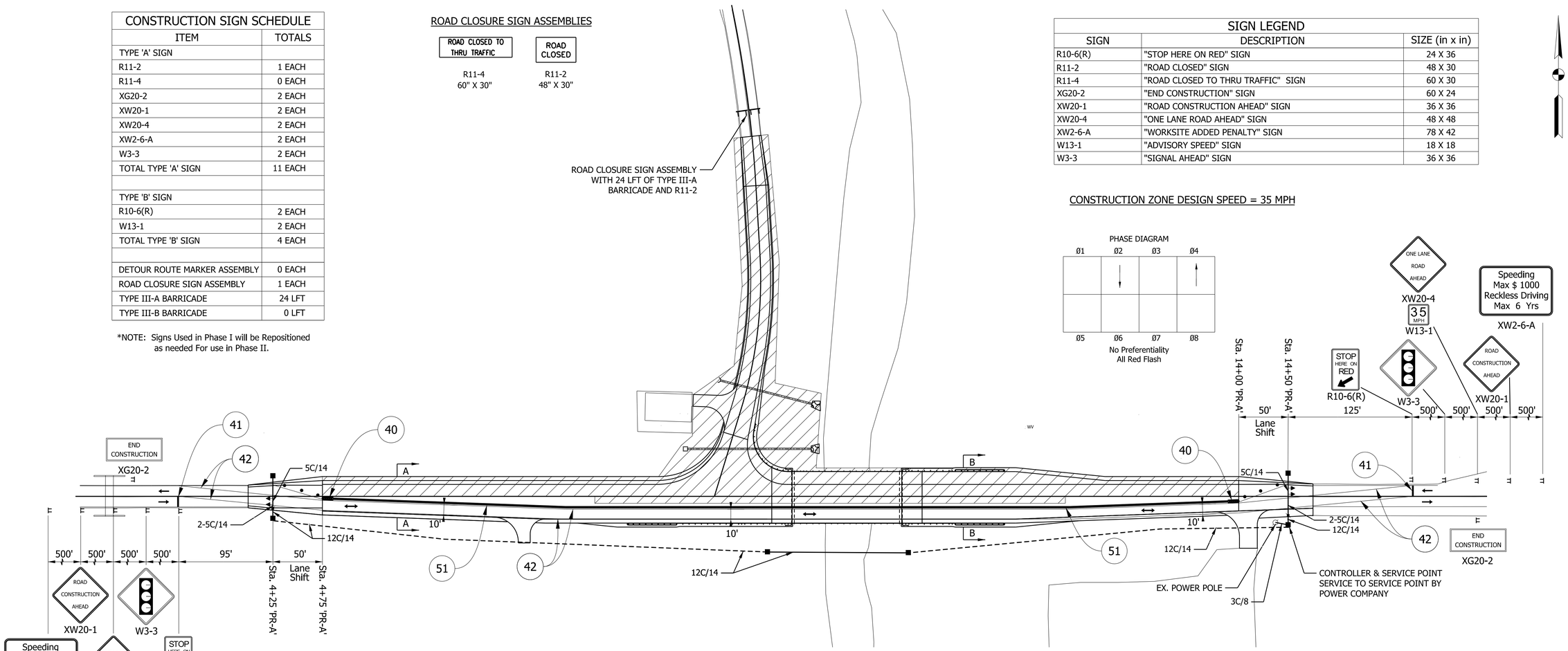
11/6/2020

CONSTRUCTION SIGN SCHEDULE	
ITEM	TOTALS
TYPE 'A' SIGN	
R11-2	1 EACH
R11-4	0 EACH
XG20-2	2 EACH
XW20-1	2 EACH
XW20-4	2 EACH
XW2-6-A	2 EACH
W3-3	2 EACH
TOTAL TYPE 'A' SIGN	11 EACH
TYPE 'B' SIGN	
R10-6(R)	2 EACH
W13-1	2 EACH
TOTAL TYPE 'B' SIGN	4 EACH
DETOUR ROUTE MARKER ASSEMBLY	0 EACH
ROAD CLOSURE SIGN ASSEMBLY	1 EACH
TYPE III-A BARRICADE	24 LFT
TYPE III-B BARRICADE	0 LFT

*NOTE: Signs Used in Phase I will be Repositioned as needed For use in Phase II.

ROAD CLOSURE SIGN ASSEMBLIES

R11-4 60" X 30" R11-2 48" X 30"

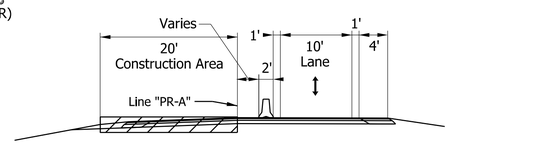


SIGN LEGEND		
SIGN	DESCRIPTION	SIZE (in x in)
R10-6(R)	"STOP HERE ON RED" SIGN	24 X 36
R11-2	"ROAD CLOSED" SIGN	48 X 30
R11-4	"ROAD CLOSED TO THRU TRAFFIC" SIGN	60 X 30
XG20-2	"END CONSTRUCTION" SIGN	60 X 24
XW20-1	"ROAD CONSTRUCTION AHEAD" SIGN	36 X 36
XW20-4	"ONE LANE ROAD AHEAD" SIGN	48 X 48
XW2-6-A	"WORKSITE ADDED PENALTY" SIGN	78 X 42
W13-1	"ADVISORY SPEED" SIGN	18 X 18
W3-3	"SIGNAL AHEAD" SIGN	36 X 36

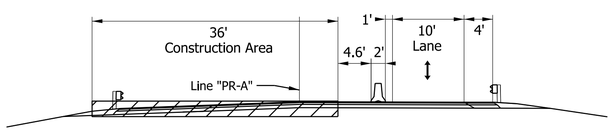
CONSTRUCTION ZONE DESIGN SPEED = 35 MPH

PHASE DIAGRAM

No Preferentiality
All Red Flash



SECTION A-A - PHASE II - MAINTAIN ONE LANE OF TRAFFIC



SECTION B-B - PHASE II - MAINTAIN ONE LANE OF TRAFFIC

Sequence Of Construction
Phase II
1. Maintain One-Way Traffic On WB Lanes of Harrison-Brookville Road Utilizing Temporary Traffic Signal.
2. Close Johnson Fork Road And Provide Detour Route.
3. Construct EB Lanes Of Harrison-Brookville Road And Bridge. Construct Johnson Fork Road.

Notes:
1. Contractor Shall Maintain Access to all Public and Private Drive Approaches Durning Construction.
2. Channelizing Devices to be Placed at 35' Interval on Tapers and 70' on Tangents.
3. All Signs, Barricades, and Pavement Markings Shall Conform to the Indiana Manual on Uniform Traffic Control Devices for Streets and Highways, 2011 and Any Current Supplements Thereto.

LEGEND

- WORK ZONE
- STANDARD DRUMS
- TYPICAL SIGN
- DIRECTION OF TRAVEL
- TEMPORARY 3-SECTION SIGNAL INDICATION
- TEMPORARY WOODEN SIGNAL POLES
- TEMP. DISCONNECT HANGER
- 2" GALVANIZED STEEL CONDUIT
- EXISTING POWER POLE

40 ENERGY ABSORBING TERMINAL, CZ, TL-2
41 TEMP. PAVEMENT MARKING, REMOVABLE, SOLID, WHITE, 24"
42 TEMP. PAVEMENT MARKING, REMOVABLE, SOLID, WHITE, 4"
50 TEMPORARY TRAFFIC BARRIER, TYPE 2, ANCHORED

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11/9/2020

DLZ

NOT FOR CONSTRUCTION

DLZ INDIANA, LLC

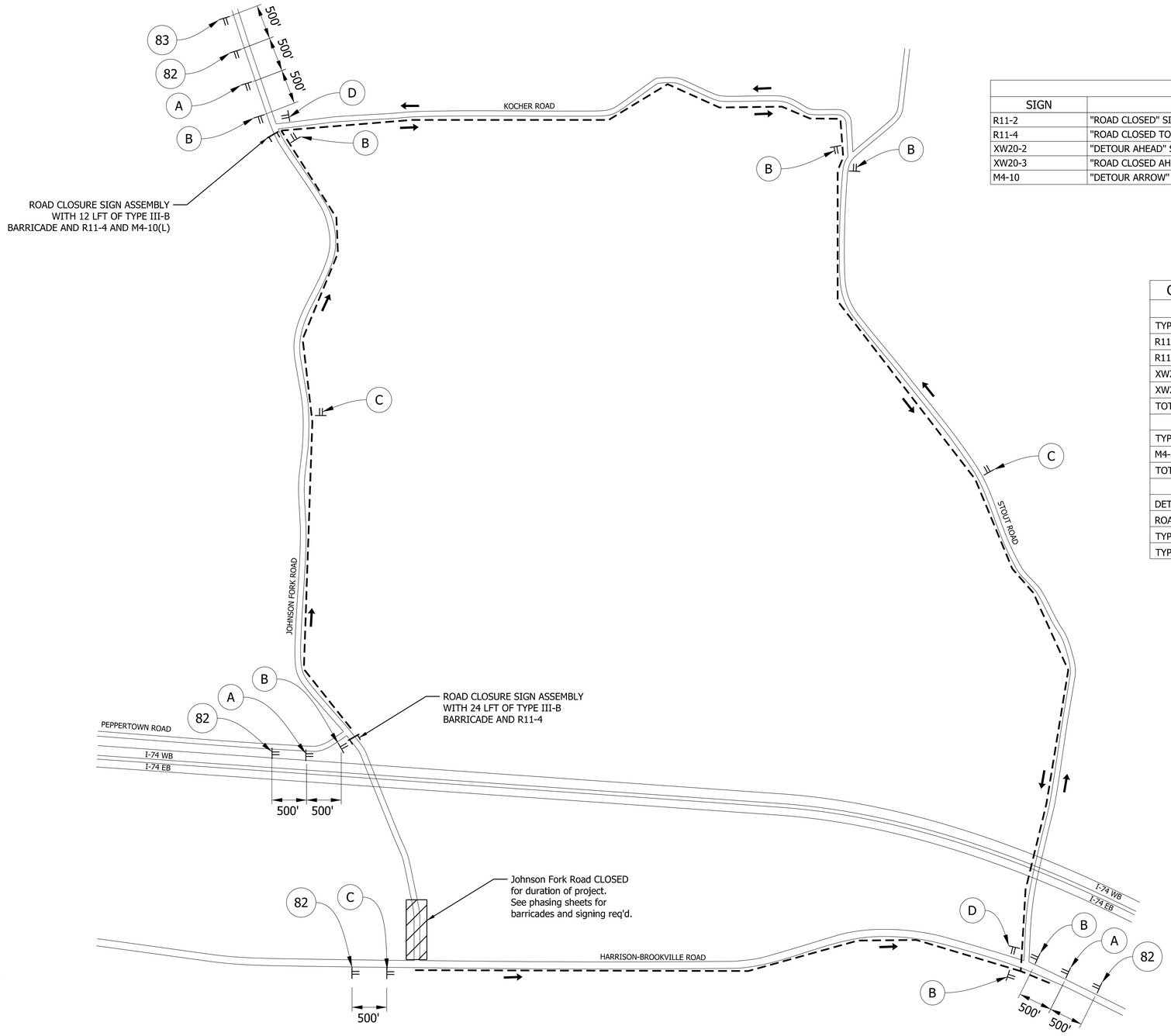
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: AMH DRAWN: AMH
CHECKED: FS CHECKED: FS

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PLAN - PHASE II

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	15-00108
VERTICAL SCALE	DESIGNATION
1" = 5'	1600719
SURVEY BOOK	SHEETS
1600719	10 of 38
CONTRACT	PROJECT
B-40273	1600719



SIGN LEGEND		
SIGN	DESCRIPTION	SIZE (in x in)
R11-2	"ROAD CLOSED" SIGN	48 X 30
R11-4	"ROAD CLOSED TO THRU TRAFFIC" SIGN	60 X 30
XW20-2	"DETOUR AHEAD" SIGN	36 X 36
XW20-3	"ROAD CLOSED AHEAD" SIGN	36 X 36
M4-10	"DETOUR ARROW" SIGN	48 X 18

CONSTRUCTION SIGN SCHEDULE	
ITEM	TOTALS
TYPE 'A' SIGN	
R11-2	0 EACH
R11-4	2 EACH
XW20-2	4 EACH
XW20-3	1 EACH
TOTAL TYPE 'A' SIGN	7 EACH
TYPE 'B' SIGN	
M4-10	1 EACH
TOTAL TYPE 'B' SIGN	1 EACH
DETOUR ROUTE MARKER ASSEMBLY	15 EACH
ROAD CLOSURE SIGN ASSEMBLY	2 EACH
TYPE III-A BARRICADE	0 LFT
TYPE III-B BARRICADE	36 LFT

Notes:
1. Contractor Shall Maintain Access to all Public and Private Drive Approaches Durning Construction.
2. All Signs, Barricades, and Pavement Markings Shall Conform to the Indiana Manual on Uniform Traffic Control Devices for Streets and Highways, 2011 and Any Current Supplements Thereto.

ROAD CLOSURE SIGN ASSEMBLIES

ROAD CLOSED TO THRU TRAFFIC	ROAD CLOSED
R11-4 60" X 30"	R11-2 48" X 30"

LEGEND

- WORK ZONE
- OR STANDARD DRUMS
- TYPICAL SIGN
- DIRECTION OF TRAVEL
- DETOUR ROUTE
- TYPE III-_ BARRICADE
- (82) XW20-2 "DETOUR AHEAD" SIGN
- (83) XW20-3 "ROAD CLOSED AHEAD" SIGN
- (A) ADVANCED TURN DETOUR MARKER ASSEMBLY
- (B) DIRECTIONAL DETOUR ROUTE MARKER ASSEMBLY
- (C) CONFIRMING DETOUR ROUTE MARKER ASSEMBLY
- (D) END DETOUR ROUTE MARKER ASSEMBLY

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11/9/2020

DLZ

NOT FOR CONSTRUCTION

DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

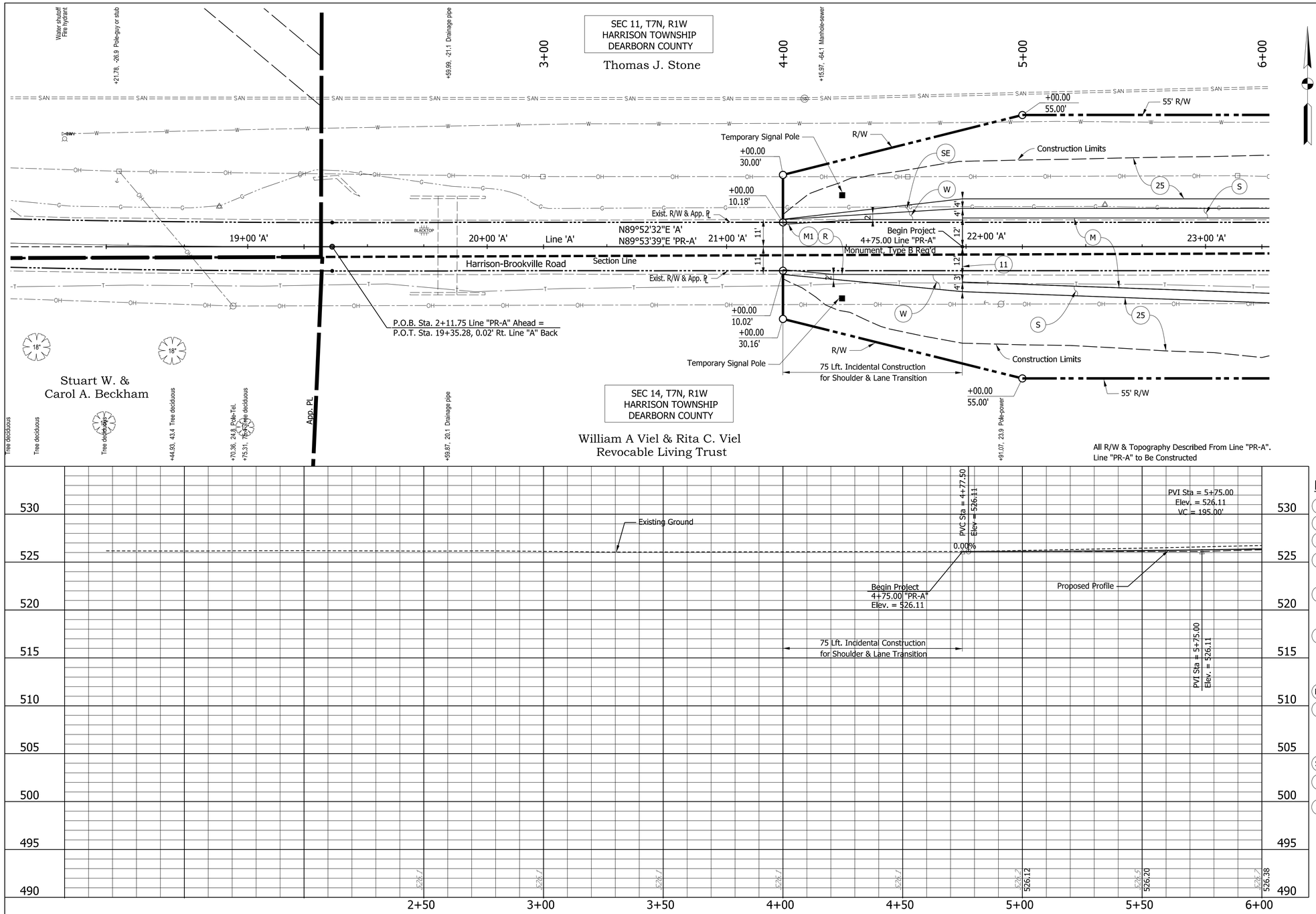
DESIGNED: AMH DRAWN: AMH

CHECKED: FS CHECKED: FS

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PLAN - DETOUR ROUTE

HORIZONTAL SCALE	BRIDGE FILE
NTS	15-00108
VERTICAL SCALE	DESIGNATION
NTS	1600719
SURVEY BOOK	SHEETS
1600719	11 of 38
CONTRACT	PROJECT
B-40273	1600719



LEGEND:

- (11) Sawcut
- (25) Seed Mixture, R
- (26) Sodding
- (C) 6" PCCP for Approaches, on Dense Grade Subbase, on Subgrade Treatment, Type II
- (D) 9" PCCP for Approaches, on Dense Grade Subbase, on Geogrid, Type IB, on Subgrade Treatment, Type II
- (M) Mainline Full-Depth Pavement: 165#/SYD QC/QA-HMA Surface, 2, 64, 9.5 mm, on 385#/SYD QC/QA-HMA Intermediate, 2, 64, 19.0 mm, on 330#/SYD QC/QA-HMA Base, 2, 64, 25.0 mm, on 4" Compacted Aggregate, No. 53, on Subgrade Treatment, Type IBC
- (M1) Milling Asphalt
- (S) Mainline Paved Shoulder: 165#/SYD QC/QA-HMA Surface, 2, 64, 9.5 mm, on 385#/SYD QC/QA-HMA Intermediate, 2, 64, 19.0 mm, on 7" Compacted Aggregate, No. 53, on Subgrade Treatment, Type IBC
- (SE) Variable Depth Compacted Aggregate, No. 53
- (R) Resurface Existing Pavement: 165 lb/syd QC/QA-HMA, 2, 64, Surface, 9.50mm
- (W) Widening with HMA, Type B, consisting of: 165#/SYD HMA Surface, Type B, on 385#/SYD HMA Intermediate, Type B, on 7" Compacted Aggregate, No. 53, on Subgrade Treatment, Type IC

102 N= 1468218.8621 E= 562289.9209
Telephone Pole, 83.2', AZ = 278°, 232.5', AZ = 100°, 60.1', AZ = 285°, Power Pole, Power Pole
5/8" Rebar W/ DLZ "Control Point" Cap Set Flush
O.P.O.T. Sta. 22+58.03, 17.46' Lt. Line 'A'

103 N= 1468217.4141 E= 561920.0387
Telephone Pole, 64.4', AZ = 288°, 135.7', AZ = 85°, 47.1', AZ = 174°, Telephone Pole, Power Pole
5/8" Rebar W/ DLZ "Control Point" Cap Set Flush
O.P.O.T. Sta. 18+88.01, 16.62' Lt. Line 'A'

DLZ

NOT FOR CONSTRUCTION

DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: AMH DRAWN: JLM
CHECKED: FS CHECKED: FS

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	15-00108
VERTICAL SCALE	DESIGNATION
1" = 5'	1600719
SURVEY BOOK	SHEETS
1600719	12 of 38
CONTRACT	PROJECT
B-40273	1600719

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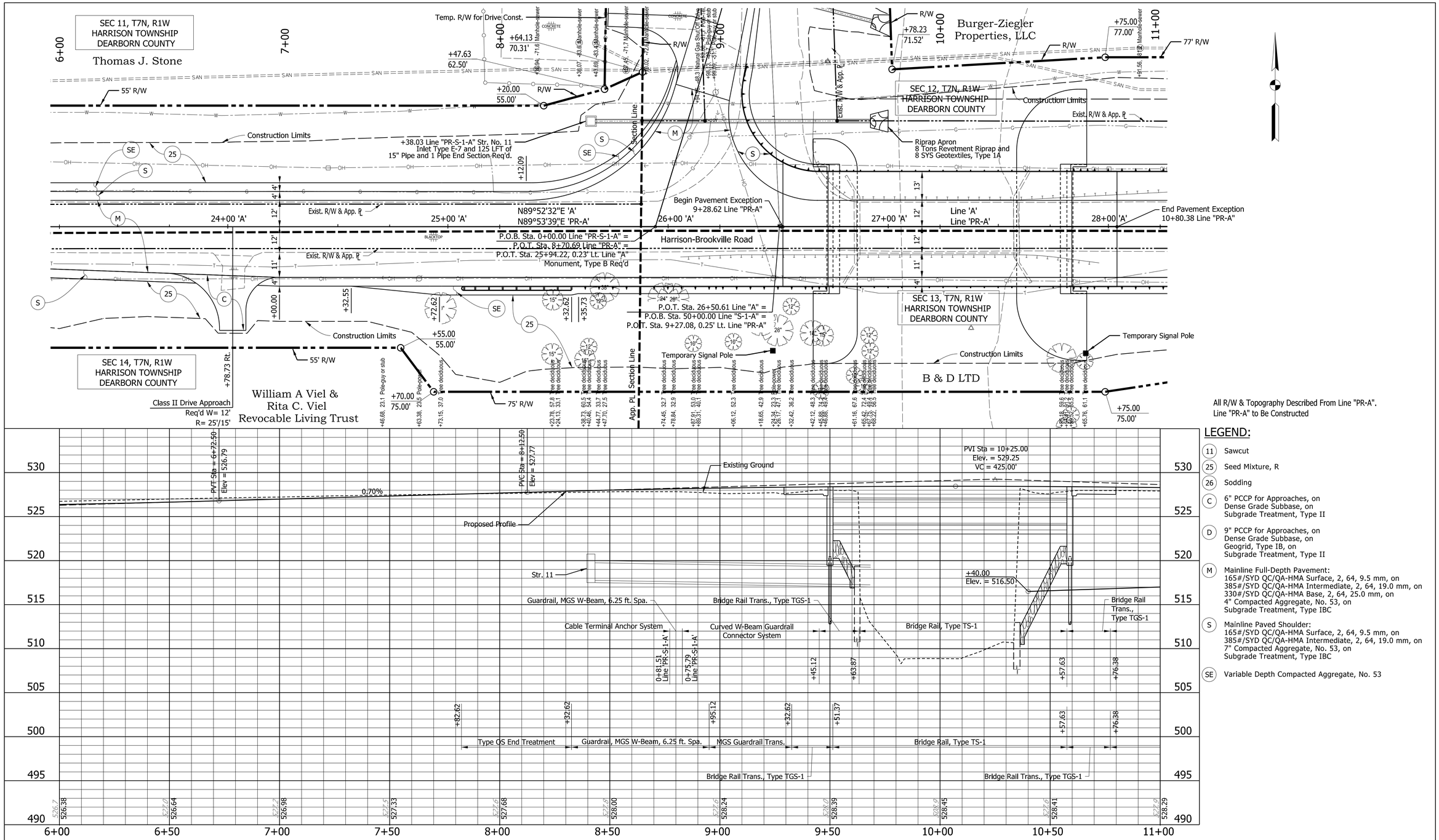
11/9/2020



LEGEND:

- (11) Sawcut
- (25) Seed Mixture, R
- (26) Sodding
- (C) 6" PCCP for Approaches, on Dense Grade Subbase, on Subgrade Treatment, Type II
- (D) 9" PCCP for Approaches, on Dense Grade Subbase, on Geogrid, Type IB, on Subgrade Treatment, Type II
- (M) Mainline Full-Depth Pavement: 165#/SYD QC/QA-HMA Surface, 2, 64, 9.5 mm, on 385#/SYD QC/QA-HMA Intermediate, 2, 64, 19.0 mm, on 330#/SYD QC/QA-HMA Base, 2, 64, 25.0 mm, on 4" Compacted Aggregate, No. 53, on Subgrade Treatment, Type IBC
- (S) Mainline Paved Shoulder: 165#/SYD QC/QA-HMA Surface, 2, 64, 9.5 mm, on 385#/SYD QC/QA-HMA Intermediate, 2, 64, 19.0 mm, on 7" Compacted Aggregate, No. 53, on Subgrade Treatment, Type IBC
- (SE) Variable Depth Compacted Aggregate, No. 53

101 |N=1468277.2051 E= 562704.3180

Power Pole 52.8' AZ = 254°; 93.5' AZ = 119°; 93.5' AZ = 180°; Telephone Pole; North Corner West Wingwall

5/8" Rebar W/ DLZ "Control Point" Cap Set Flush
O.P.O.T. Sta. 26+72.55, 74.90' Lt. Line 'A'

105 |N=1467760.7791 E= 562748.7560

(N.R.A.)

5/8" Rebar W/ DLZ "Control Point" Cap Set Flush
O.P.O.T. Sta. 27+15.87, 441.62' Rt. Line 'A'

DLZ

NOT FOR CONSTRUCTION

DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: AMH DRAWN: JLM

CHECKED: FS CHECKED: FS

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	15-00108
VERTICAL SCALE	DESIGNATION
1" = 5'	1600719
SURVEY BOOK	SHEETS
1600719	13 of 38
CONTRACT	PROJECT
B-40273	1600719

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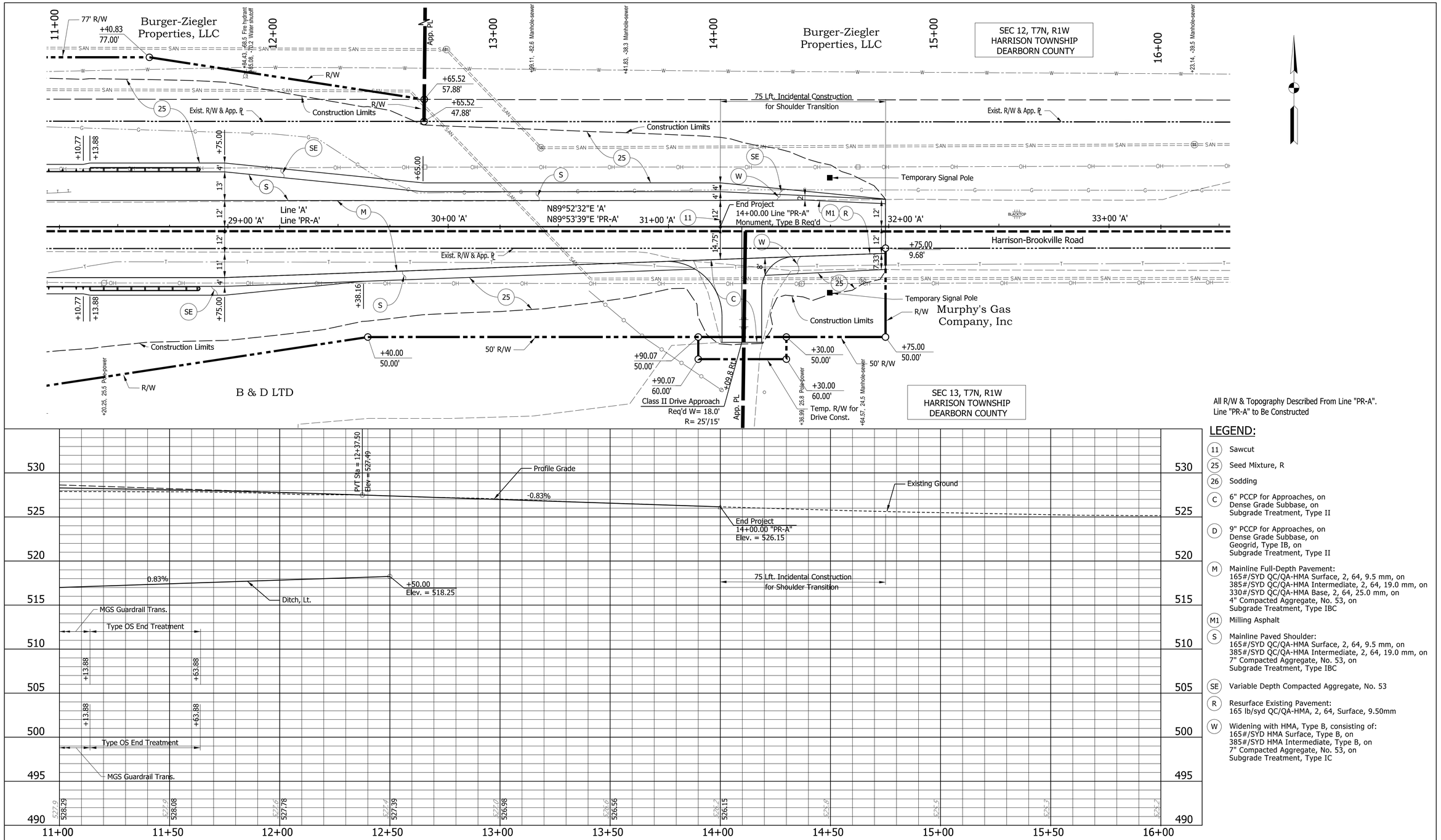
11/9/2020



All R/W & Topography Described From Line "PR-A".
Line "PR-A" to Be Constructed

LEGEND:

- (11) Sawcut
- (25) Seed Mixture, R
- (26) Sodding
- (C) 6" PCCP for Approaches, on Dense Grade Subbase, on Subgrade Treatment, Type II
- (D) 9" PCCP for Approaches, on Dense Grade Subbase, on Geogrid, Type IB, on Subgrade Treatment, Type II
- (M) Mainline Full-Depth Pavement: 165#/SYD QC/QA-HMA Surface, 2, 64, 9.5 mm, on 385#/SYD QC/QA-HMA Intermediate, 2, 64, 19.0 mm, on 330#/SYD QC/QA-HMA Base, 2, 64, 25.0 mm, on 4" Compacted Aggregate, No. 53, on Subgrade Treatment, Type IBC
- (M1) Milling Asphalt
- (S) Mainline Paved Shoulder: 165#/SYD QC/QA-HMA Surface, 2, 64, 9.5 mm, on 385#/SYD QC/QA-HMA Intermediate, 2, 64, 19.0 mm, on 7" Compacted Aggregate, No. 53, on Subgrade Treatment, Type IBC
- (SE) Variable Depth Compacted Aggregate, No. 53
- (R) Resurface Existing Pavement: 165 lb/syd QC/QA-HMA, 2, 64, Surface, 9.50mm
- (W) Widening with HMA, Type B, consisting of: 165#/SYD HMA Surface, Type B, on 385#/SYD HMA Intermediate, Type B, on 7" Compacted Aggregate, No. 53, on Subgrade Treatment, Type IC

104 N= 1468156.1441 E= 562769.6491

South Corner East Wingwall

Power Pole — 84.6' AZ = 206° — 84.6' AZ = 206° — 108.1' AZ = 19° — Power Pole

5/8" Rebar W/ DLZ "Control Point" Cap Set Flush
O.P.O.T. Sta. 27+37.62, 46.30' Rt. Line 'A'

DLZ

NOT FOR CONSTRUCTION

DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: AMH DRAWN: JLM

CHECKED: FS CHECKED: FS

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	15-00108
VERTICAL SCALE	DESIGNATION
1" = 5'	1600719
SURVEY BOOK	SHEETS
1600719	14 of 38
CONTRACT	PROJECT
B-40273	1600719

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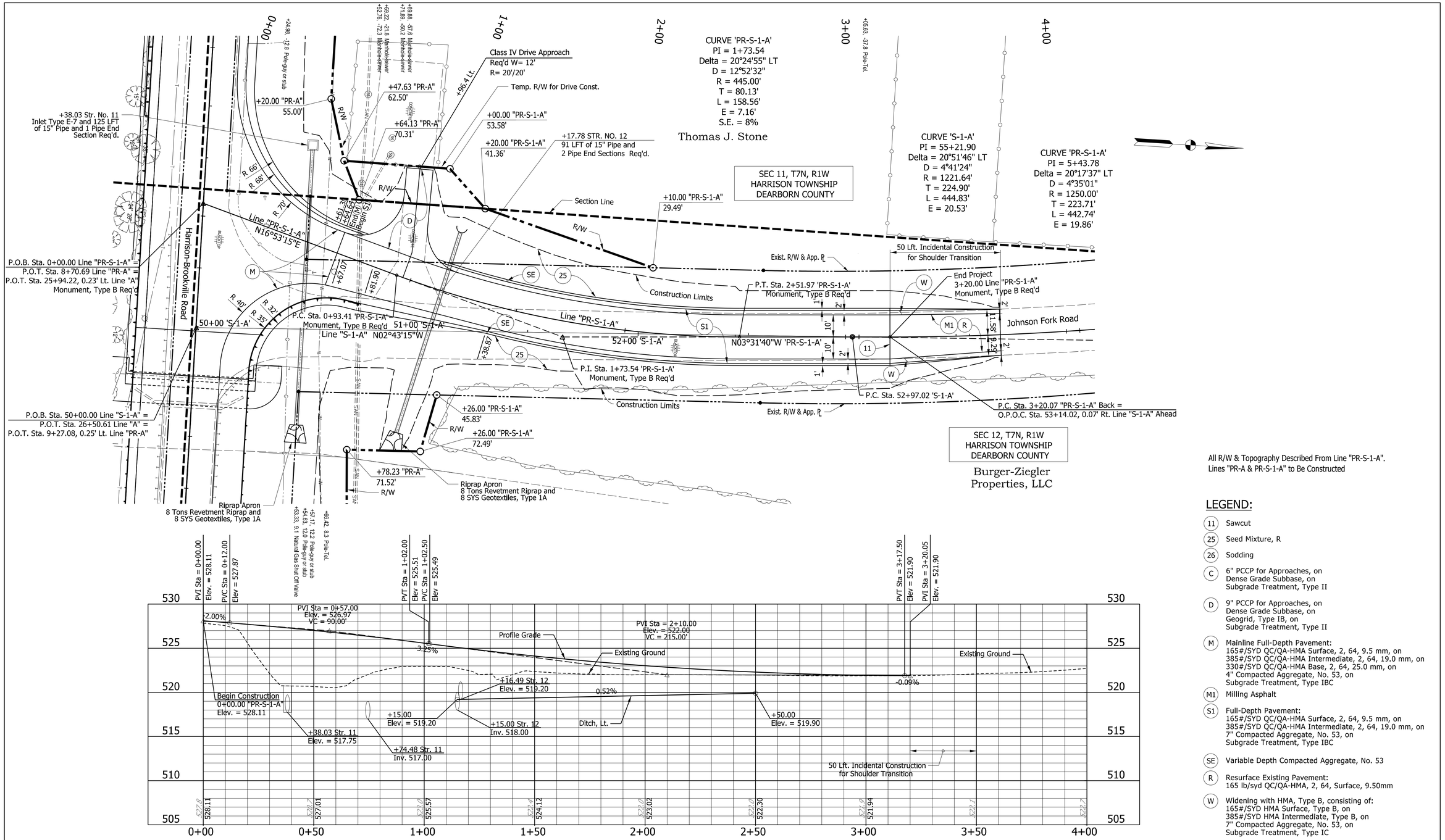
11/6/2020



All R/W & Topography Described From Line "PR-S-1-A".
Lines "PR-A & PR-S-1-A" to Be Constructed

LEGEND:

- (11) Sawcut
- (25) Seed Mixture, R
- (26) Sodding
- (C) 6" PCCP for Approaches, on Dense Grade Subbase, on Subgrade Treatment, Type II
- (D) 9" PCCP for Approaches, on Dense Grade Subbase, on Geogrid, Type IB, on Subgrade Treatment, Type II
- (M) Mainline Full-Depth Pavement: 165#/SYD QC/QA-HMA Surface, 2, 64, 9.5 mm, on 385#/SYD QC/QA-HMA Intermediate, 2, 64, 19.0 mm, on 330#/SYD QC/QA-HMA Base, 2, 64, 25.0 mm, on 4" Compacted Aggregate, No. 53, on Subgrade Treatment, Type IBC
- (M1) Milling Asphalt
- (S1) Full-Depth Pavement: 165#/SYD QC/QA-HMA Surface, 2, 64, 9.5 mm, on 385#/SYD QC/QA-HMA Intermediate, 2, 64, 19.0 mm, on 7" Compacted Aggregate, No. 53, on Subgrade Treatment, Type IBC
- (SE) Variable Depth Compacted Aggregate, No. 53
- (R) Resurface Existing Pavement: 165 lb/syd QC/QA-HMA, 2, 64, Surface, 9.50mm
- (W) Widening with HMA, Type B, consisting of: 165#/SYD HMA Surface, Type B, on 385#/SYD HMA Intermediate, Type B, on 7" Compacted Aggregate, No. 53, on Subgrade Treatment, Type IC

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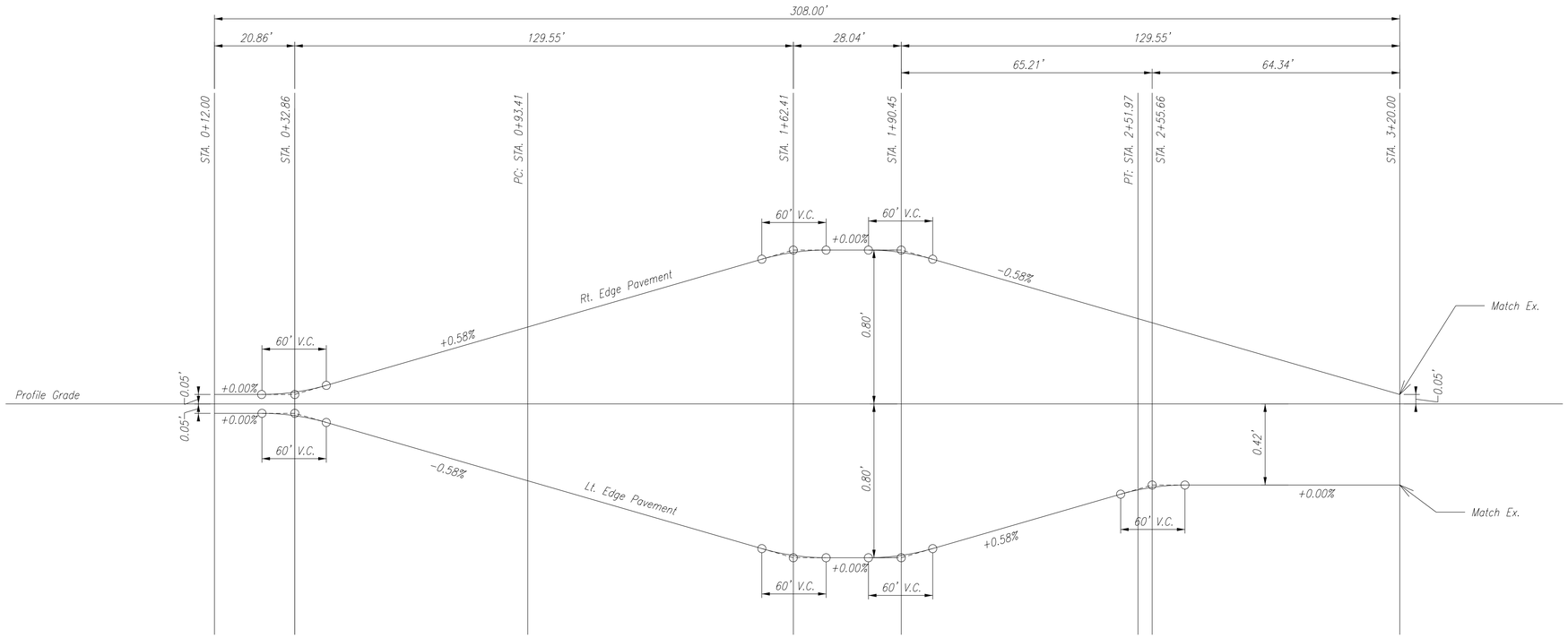
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

DESIGNED: AMH | DRAWN: JLM
CHECKED: FS | CHECKED: FS

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
LINE "PR-S-1-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	15-00108
VERTICAL SCALE	DESIGNATION
1" = 5'	1600719
SURVEY BOOK	SHEETS
1600719	15 of 38
CONTRACT	PROJECT
B-40273	1600719



P.I. @ 1+73.54
R=445.00'
e=8.00%
Design Speed = 40 MPH

SUPERELEVATION TRANSITION DETAIL

Scale: Not to Scale

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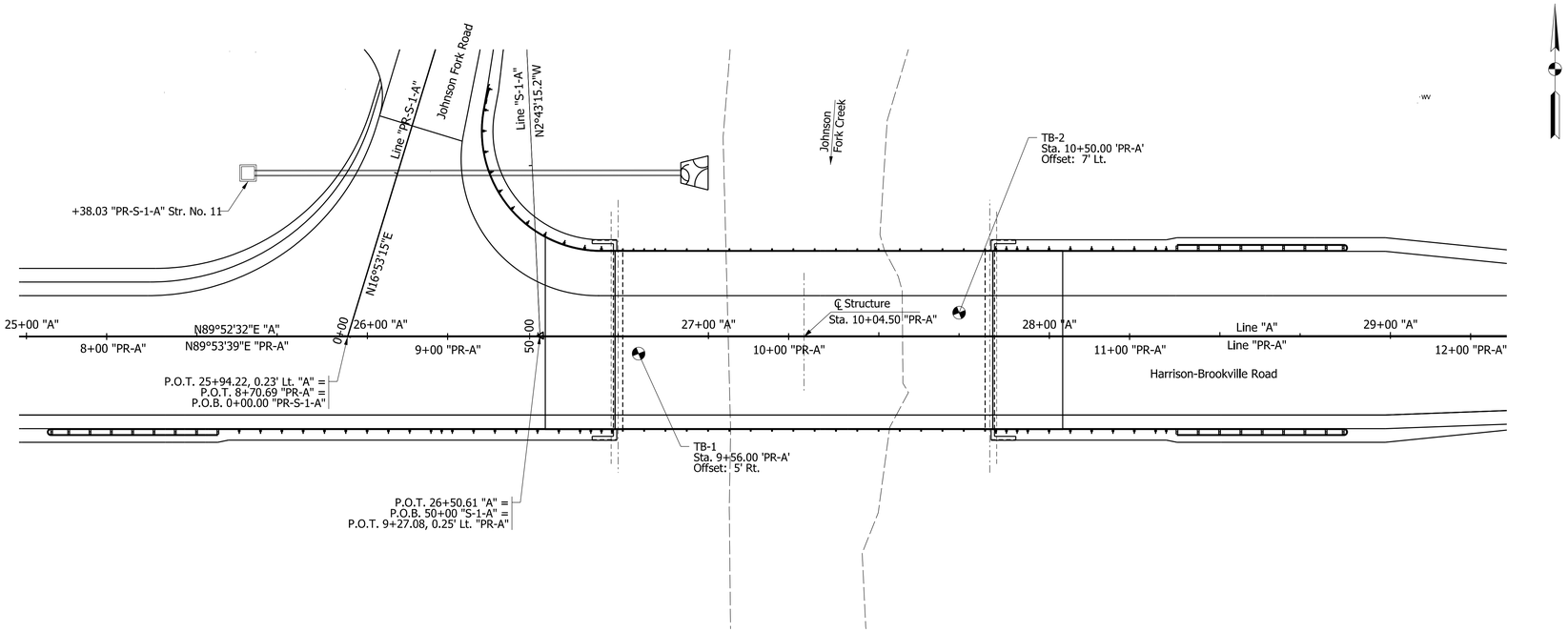
DEPARTMENT OF TRANSPORTATION

SUPERELEVATION DETAIL
LINE 'PR-S-1-A'

HORIZONTAL SCALE	BRIDGE FILE
As Noted	15-00108
VERTICAL SCALE	DESIGNATION
As Noted	1600719
SURVEY BOOK	SHEETS
1600719	16 of 38
CONTRACT	PROJECT
B-40273	1600719



BORING PLAN

Scale: 1" = 20'

PILE LOADING FOR GEOTECTNICAL TESTING

	Bent No. 1	Bent No. 2
Pile Size, Type and Grade	Pile, Steel, Pipe 0.312 in, 14 IN, Grade 3	Pile, Steel, Pipe 0.312 in, 14 IN, Grade 3
Factored Design Load, Qf (kip)		
Factored Design Soil Resistance, Rr (kip)	230	230
Resistance Factor	0.55	0.55
Downdrag Load, DD (kip) Due to Embankment Fill	0	0
Downdrag Load, D (kip) Due to Liquefaction	0	0
Nominal Soil Resistance, Rn (kip)	418	418
Downdrag Friction, Rs (kip)	0	0
Scour Zone Friction, Rs (kip)	0	0
Relaxation in Shale (kip)	0	0
Nominal Driving Resistance, Rndr (kip)	418	418
Estimated Pile Tip Elevation (Minimum)	477	479
Testing Method:	Dynamic Formula - INDOT Standard Specification Section 701.05(a)	

Note to Reviewer:
Table will be finalized with Factored Design Load at Stage 3

NOTE:
1. N indicates the number of blows required to drive a 1 3/8" I.D., 1" O.D. Split Spoon Sampler 6" by means of a 140-lb weight falling 30"

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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: JFM 10/2020 DRAWN: CJF 10/2020

CHECKED: MAK 10/2020 CHECKED: JFM 10/2020

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DEPARTMENT OF TRANSPORTATION

SOIL BORING

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	15-00108
VERTICAL SCALE	DESIGNATION
N/A	1600719
SURVEY BOOK	SHEETS
1600719	17 of 38
CONTRACT	PROJECT
B-40273	1600719

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11/6/2020

EARTH EXPLORATION

LOG OF TEST BORING

Project: Harrison Brookville Rd o/Johnson Fork Ck.
Location: Dearborn County, Indiana
Client: Howard J. Barth & Associates, Inc.
7770 West New York Street - Indianapolis, Indiana 46214
317-273-1690 / 317-273-2250 (Fax)

Boring No.: TB-1
Elevation: 528
Datum: NAVD 88
EEI Proj. No.: 1-13-429
Sheet 1 of 2

Proj. No.	---	Station	9+56	Weather	Sunny	Driller	B.J.
Struct. No.	Dearborn 108	Offset	5 ft Rt. "CL"	Temp.	50° F	Inspector	---

SAMPLE No.	Type	Rec %	N Value	Depth ft	Elev	DESCRIPTION/CLASSIFICATION and REMARKS	q_p tsf	q_u tsf	γ_d pcf	W %	LL %	PL %	PI %
						ASPHALTIC CONCRETE, 7 in.							
						PORTLAND CEMENT CONCRETE, 5 in.							
SS-1		90	18			**SAND AND GRAVEL**, medium dense, moist, brown, with occasional sandy loam seams (fill)							
SS-2		90	18	5	525								
SS-3		90	9			**SAND**, loose to very loose, moist, brown, with thin loam seam near 9' (possible fill)							
SS-4		100	4	10	520								
SS-5		35	4			**SANDY LOAM**, very loose to loose, moist, brown							
SS-6		100	6	15	515								
SS-7		45	2			**LOAM**, medium, brown	0.5			19.2			
SS-8		20	2	20	510	**SANDY LOAM with Some Gravel**, very loose, moist, brown							
SS-9		65	4	25	505	**GRAVELLY SAND**, very loose to loose, wet, brown							
SS-10		100	8	30	500								

Continued Next Page

WATER LEVEL OBSERVATIONS

Depth ft	While Drilling	Upon Completion	After Drilling
To Water	19½	19	BF
To Cave-in		23½	

The stratification lines represent the approximate boundary between soil/rock types and the transition may be gradual.

GENERAL NOTES

Start 11/18/13 End 11/18/13 Rig CME 75
Drilling Method 3¼" I.D. HSA Truck
Remarks Backfilled with auger cuttings, bentonite chips and concrete patch at surface.

EARTH EXPLORATION

LOG OF TEST BORING

Project: Harrison Brookville Rd o/Johnson Fork Ck.
Location: Dearborn County, Indiana
Client: Howard J. Barth & Associates, Inc.
7770 West New York Street - Indianapolis, Indiana 46214
317-273-1690 / 317-273-2250 (Fax)

Boring No.: TB-1
Elevation: 528
Datum: NAVD 88
EEI Proj. No.: 1-13-429
Sheet 2 of 2

Proj. No.	---	Station	9+56	Weather	Sunny	Driller	B.J.
Struct. No.	Dearborn 108	Offset	5 ft Rt. "CL"	Temp.	50° F	Inspector	---

SAMPLE No.	Type	Rec %	N Value	Depth ft	Elev	DESCRIPTION/CLASSIFICATION and REMARKS	q_p tsf	q_u tsf	γ_d pcf	W %	LL %	PL %	PI %
						GRAVELLY SAND, very loose to loose, wet, brown							
SS-11		100	16	35	495	**SAND**, medium dense, wet, brown							
SS-12		35	47	40	490	**GRAVELLY SAND**, dense, wet, brown							
SS-13		90	38	45	485								
SS-14		100	20	50	480	**SAND AND GRAVEL**, medium dense to dense, wet, brown							
SS-15		100	29	55	475								
SS-16		100	33	60	470								
						End of Boring at 60 ft							

The stratification lines represent the approximate boundary between soil/rock types and the transition may be gradual.

NOTE:
1. N indicates the number of blows required to drive a 1 3/8" I.D., 1" O.D. Split Spoon Sampler 6" by means of a 140-lb weight falling 30"

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DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: JFM 10/2020 DRAWN: CJF 10/2020
CHECKED: MAK 10/2020 CHECKED: JFM 10/2020

INDIANA DEPARTMENT OF TRANSPORTATION

SOIL BORING

HORIZONTAL SCALE	BRIDGE FILE
N/A	15-00108
VERTICAL SCALE	DESIGNATION
N/A	1600719
SURVEY BOOK	SHEETS
1600719	18 of 38
CONTRACT	PROJECT
B-40273	1600719

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11/6/2020

EARTH EXPLORATION

LOG OF TEST BORING

Project: Harrison Brookville Rd o/Johnson Fork Ck.
Location: Dearborn County, Indiana
Client: Howard J. Barth & Associates, Inc.
7770 West New York Street - Indianapolis, Indiana 46214
317-273-1690 / 317-273-2250 (Fax)

Boring No.: TB-2
Elevation: 528
Datum: NAVD 88
EEI Proj. No.: 1-13-429
Sheet 1 of 2

Proj. No.	---	Station	10+50	Weather	Sunny	Driller	B.J.
Struct. No.	Dearborn 108	Offset	7 ft Lt. "CL"	Temp.	50° F	Inspector	---

SAMPLE No.	Type	Rec %	N Value	Depth ft	Elev	DESCRIPTION/CLASSIFICATION and REMARKS	q_p tsf	q_u tsf	γ_d pcf	W %	LL %	PL %	PI %
						ASPHALTIC CONCRETE, 15 in.							
						PORTLAND CEMENT CONCRETE, 9 in.							
SS-1		10	2										
				525									
SS-2		35	15	5									
SS-3		35	14										
				520									
SS-4		35	6	10									
SS-5		5	10			**CRUSHED STONE** (fill)							
				515									
SS-6		0	8	15									
SS-7		0	15										
				510									
SS-8		65	11	20									
						SANDY LOAM, medium dense, moist, brown							
				505									
SS-9		65	10	25									
						SAND, loose, wet, brown							
				500									
SS-10		100	15	30		**GRAVELLY SAND**, medium dense, wet, brown							

Continued Next Page

WATER LEVEL OBSERVATIONS

Depth ft	While Drilling	Upon Completion	After Drilling
To Water	23	NW	BF
To Cave-in		3	

The stratification lines represent the approximate boundary between soil/rock types and the transition may be gradual.

GENERAL NOTES

Start 11/18/13 End 11/18/13 Rig CME 75
Drilling Method 3¼" I.D. HSA Truck
Remarks Backfilled with auger cuttings, bentonite chips and concrete patch at surface.

EARTH EXPLORATION

LOG OF TEST BORING

Project: Harrison Brookville Rd o/Johnson Fork Ck.
Location: Dearborn County, Indiana
Client: Howard J. Barth & Associates, Inc.
7770 West New York Street - Indianapolis, Indiana 46214
317-273-1690 / 317-273-2250 (Fax)

Boring No.: TB-2
Elevation: 528
Datum: NAVD 88
EEI Proj. No.: 1-13-429
Sheet 2 of 2

Proj. No.	---	Station	10+50	Weather	Sunny	Driller	B.J.
Struct. No.	Dearborn 108	Offset	7 ft Lt. "CL"	Temp.	50° F	Inspector	---

SAMPLE No.	Type	Rec %	N Value	Depth ft	Elev	DESCRIPTION/CLASSIFICATION and REMARKS	q_p tsf	q_u tsf	γ_d pcf	W %	LL %	PL %	PI %
				495									
SS-11		100	12	35		**GRAVELLY SAND**, medium dense, wet, brown							
				490									
SS-12		100	21	40									
				485		**SAND AND GRAVEL**, medium dense to dense, wet, brown							
SS-13		100	37	45									
				480									
SS-14		100	42	50									
						End of Boring at 50 ft							

The stratification lines represent the approximate boundary between soil/rock types and the transition may be gradual.

NOTE:
1. N indicates the number of blows required to drive a 1 3/8" I.D., 1" O.D. Split Spoon Sampler 6" by means of a 140-lb weight falling 30"

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DLZ INDIANA, LLC

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DESIGNED: JFM 10/2020 DRAWN: CJF 10/2020
CHECKED: MAK 10/2020 CHECKED: JFM 10/2020

INDIANA DEPARTMENT OF TRANSPORTATION

SOIL BORING

HORIZONTAL SCALE	BRIDGE FILE
N/A	15-00108
VERTICAL SCALE	DESIGNATION
N/A	1600719
SURVEY BOOK	SHEETS
1600719	19 of 38
CONTRACT	PROJECT
B-40273	1600719

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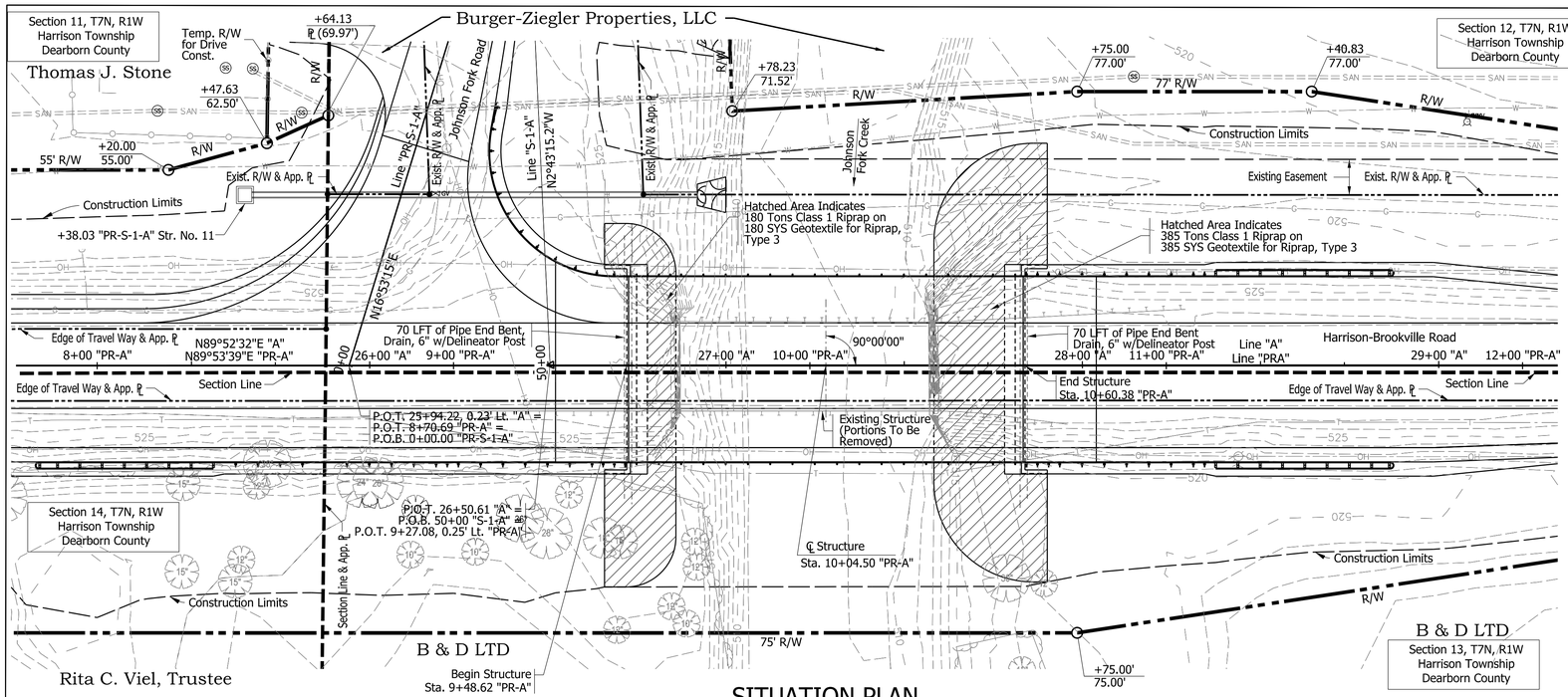


SITUATION PLAN

Contour Interval = 1'

EXISTING STRUCTURE

The existing structure consists of a 33" prestressed concrete adjacent box beams. The superstructure is supported on concrete abutments and spread footings. The structure has a span length of 72'-0" and a clear roadway width of 24'-0". The existing structure was built in 1925 and reconstructed in 1988. Portions of the existing structure will be removed. Existing plans of the structure are not available.

HYDRAULIC DATA

Waterway Opening Required	880.7 sq ft
Waterway Opening Provided	887.11 ft
Drainage Area	13.28 sq mi
Design Discharge, Q100	7,120 cfs
Velocity	7.85 fps
Q100 Elevation	521.05 ft
Q100 Headwater Elev.	521.89 ft
Estimated Scour Elev.	503.94 ft
Backwater at Q100	0.52 ft
Existing Waterway Opening	803.0 sq ft
Existing Backwater	0.80 ft
Low Structure Elev.	522.87 ft
Existing Low Structure Elev.	526.00 ft

EARTHWORK TABULATION

Fill + 20%	
Line "PRA"	CYD
Line"PRS-1-A"	CYD
Total Fill	CYD
Common Excavation*	
Line "PRA"	CYD
Line"PRS-1-A"	CYD
Total Common Excavation	CYD
Borrow	CYD
Benching**	CYD
Foundation Excavation, Unclassified	CYD
Wet Excavation	CYD
Dry Excavation	CYD

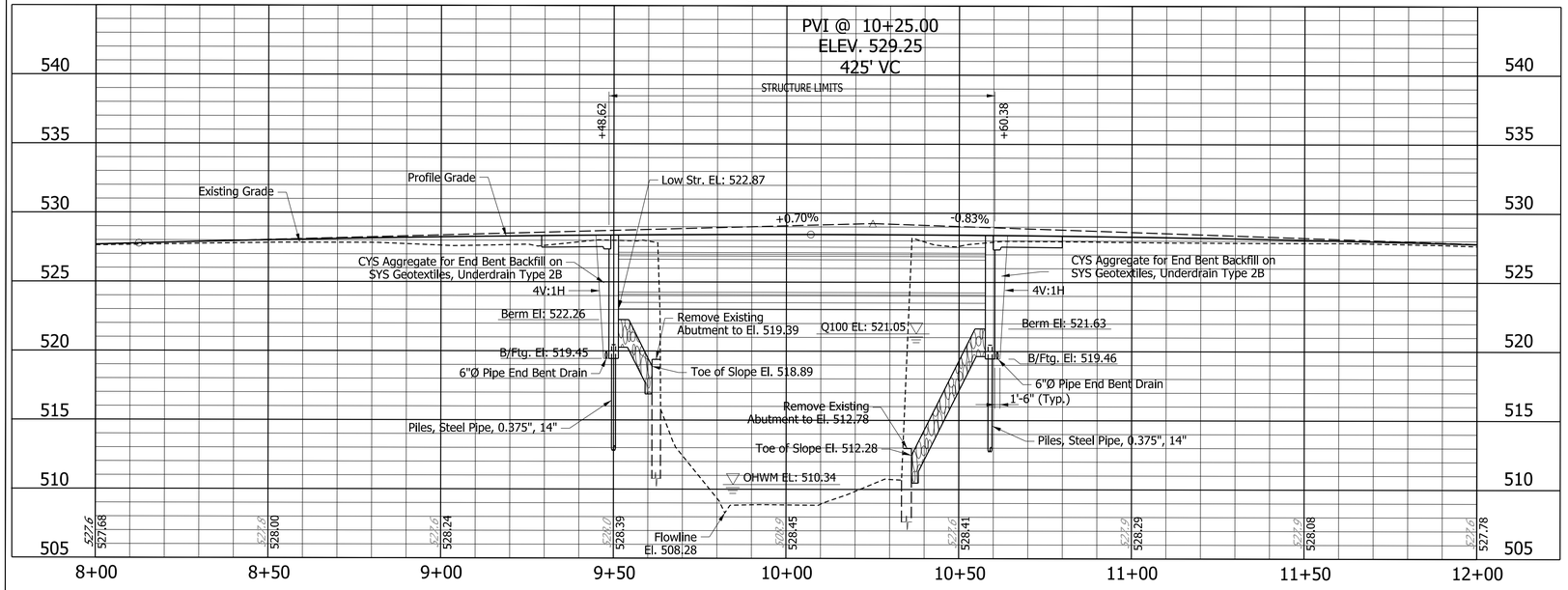
* Assumed 50% Common Excavation suitable as fill.
** The cost of benching shall not be paid for directly. The cost of benching shall be included in cost of related items.

HYDRAULIC SCOUR DATA

Q100 Discharge	7,120 cfs
Q100 Elev.	521.05 ft
Velocity at Q100	8.86 fps
Scour Depth (Contraction)	2.20 ft
Scour Depth (Total)	2.20 ft
Low Scour Elev.	506.30 ft
Q500 Discharge	9,450 cfs
Q500 Elev.	522.18 ft
Velocity at Q500	10.40 fps
Scour Depth (Contraction)	4.56 ft
Scour Depth (Total)	4.56 ft
Low Scour Elev.	503.94 ft

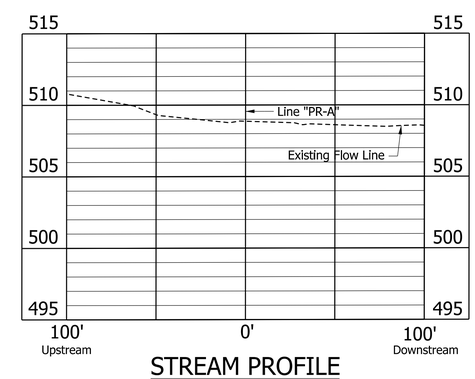
NOTES:

1. See plan and profile the additional work, benchmarks, profile grade data and additional details.
2. All topography taken from "PR-A".
3. All R/W taken from "PR-A" except as noted otherwise.



PROPOSED PROFILE (LINE "PR-A")

NOTE TO REVIEWER:
Earthwork Tabulations and Final Quantities will be Provided at Stage 3.



STREAM PROFILE

Horiz. Scale: 1"=40'
Vert. Scale: 1"=5'

COMPOSITE PRESTRESSED
CONCRETE BULB-TEE BEAM
SINGLE SPAN: 109'-0", 0°0'0" SKEW
52'-0" CLEAR ROADWAY WIDTH
HARRISON BROOKVILLE ROAD
OVER JOHNSON FORK CREEK
DEARBORN COUNTY

DLZ

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DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: JFM 10/2020 DRAWN: JLM 10/2020
CHECKED: MAK 10/2020 CHECKED: JFM 10/2020

INDIANA
DEPARTMENT OF TRANSPORTATION

LAYOUT

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	15-00108
VERTICAL SCALE	DESIGNATION
1" = 5'	1600719
SURVEY BOOK	SHEETS
1600719	20 of 38
CONTRACT	PROJECT
B-40273	1600719

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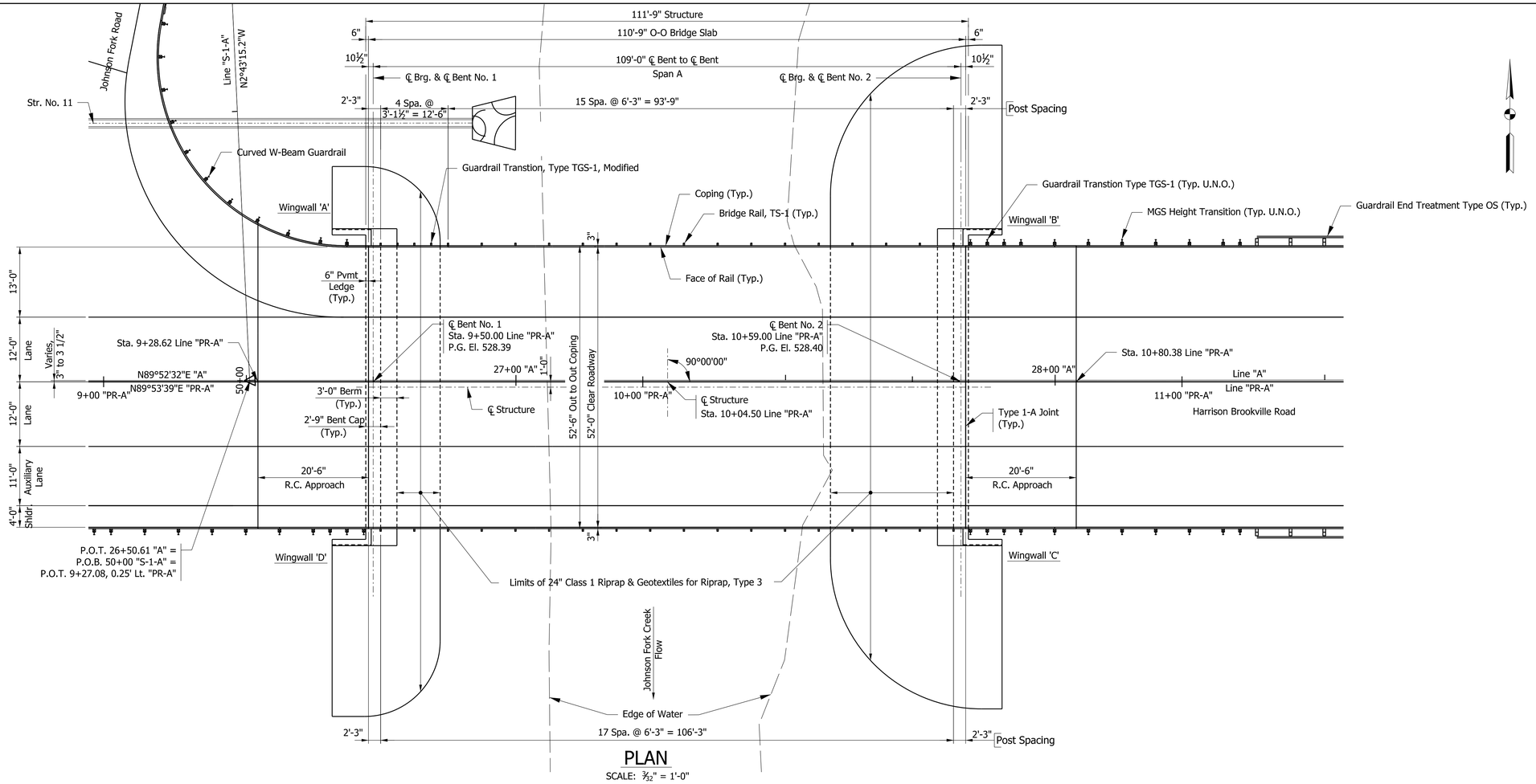
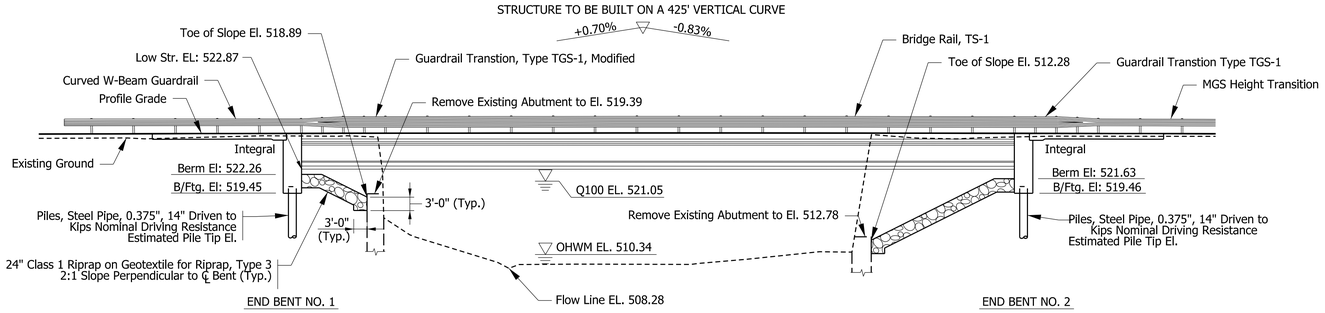


PLAN

SCALE: 3/32" = 1'-0"



SPAN A

ELEVATION

SCALE: 3/32" = 1'-0"

COMPOSITE PRESTRESSED
CONCRETE BULB-TEE BEAM
SINGLE SPAN: 109'-0", 0°0'0" SKEW
52'-0" CLEAR ROADWAY WIDTH
HARRISON BROOKVILLE ROAD
OVER JOHNSON FORK CREEK
DEARBORN COUNTY

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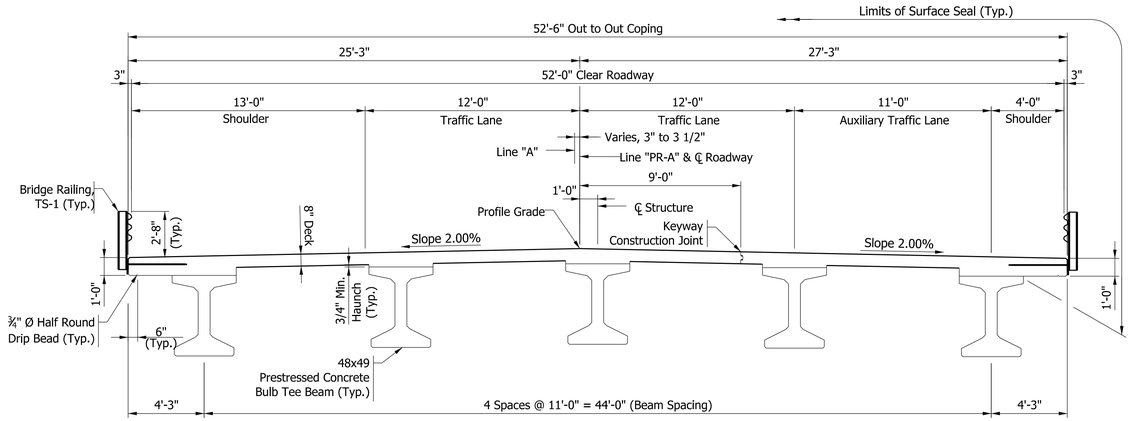
DESIGNED: JFM 10/2020 DRAWN: JLM 10/2020

CHECKED: MAK 10/2020 CHECKED: JFM 10/2020

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

HORIZONTAL SCALE	BRIDGE FILE
3/32" = 1'-0"	15-00108
VERTICAL SCALE	DESIGNATION
3/32" = 1'-0"	1600719
	SHEETS
	21 of 38
CONTRACT	PROJECT
B-40273	1600719



TYPICAL SECTION

SCALE: ¼" = 1'-0"

GENERAL NOTES

Reinforcing steel cover shall be 2 1/2" in top and 1" minimum in bottom of floor slab, 3" in footings, except bottom steel which shall be 4", and 2" in all other parts, unless noted.

DESIGN DATA

LIVE LOAD

Designed for HL-93 loading, in Accordance with AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017 and subsequent Interims.

DEAD LOAD

Actual Weight Plus:
Future Wearing Surface = 35 psf
Permanent Metal Deck Forms = 15 psf

FLOOR SLAB

Designed with 7½" structural plus ½" sacrificial wearing surface.

DESIGN STRESSES

CONCRETE

Class A Concrete	f'c = 3,500 psi
Class B Concrete	f'c = 3,000 psi
Class C Concrete	f'c = 4,000 psi
Prestressed Concrete	f'c = 8,000 psi

REINFORCING STEEL

Grade 60	fy = 60,000 psi

SEISMIC DATA

Seismic Performance Zone	Zone 1
Acceleration Coefficient	0.113
Seismic Soil Profile Type	Class D

CONSTRUCTION LOAD

The exterior girder has been checked for strength, deflection, and overturning using the construction loads listed below. Cantilever overhang brackets were assumed for support of the deck overhang past the edge of the exterior girder. Finishing machine was assumed to be supported 6 in. outside the vertical coping form. The top overhang brackets were assumed to be located 6 in. past the edge of the vertical coping form. The bottom overhang brackets were assumed to be braced against the intersection of the bottom flange and web.

DECK FALSEWORK LOADS:

Designed for 15 psf for permanent metal stay-in place deck forms, removable deck forms, and 2-ft exterior walkway.

CONSTRUCTION LIVE LOAD:

Designed for 20 psf extending 2 ft past the edge of coping and 75 lb/ft vertical force applied at a distance of 6 in. outside the face of coping over a 30-ft length of the deck centered with the finishing machine.

FINISH-MACHINE LOAD:

4500 lb distributed over 10 ft along the coping.

WIND LOAD:

Designed for 70 mph horizontal wind loading in accordance with LRFD 3.8.1.

COMPOSITE PRESTRESSED
CONCRETE BULB-TEE BEAM
SINGLE SPAN: 109'-0", 0°0'0" SKEW
52'-0" CLEAR ROADWAY WIDTH
HARRISON BROOKVILLE ROAD
OVER JOHNSON FORK CREEK
DEARBORN COUNTY

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11/6/2020

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DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: JFM 10/2020 DRAWN: JLM 10/2020
CHECKED: MAK 10/2020 CHECKED: JFM 10/2020

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	15-00108
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1600719
	SHEETS
	22 of 38
CONTRACT	PROJECT
B-40273	1600719

SUMMARY OF BRIDGE QUANTITIES

ITEM	CONCRETE						END BENT BACKFILL		REINF. STEEL	EPOXY COATED REINF. STEEL	STRUCT. STEEL	ANCHOR PLATES MK-AP	PILES											TYPE FC BRIDGE RAIL	GUARDRAIL TRANSITION TYPE TGS-1	EXP. JOINT TYPE BS-11	EXP. JOINT CLASS __	CONC. STR. MEMBERS		BARRIER DELIN-EATORS	SURFACE SEAL**	CONC. BR. RAILING TRANS. TYPE TFC	REINF. CONCRETE PAVEMENT, 10 INCH
	CLASS C	CLASS C	CLASS B	CLASS A	CLASS C								CONC. STEEL SHELL ENCASED		REINF. CONC. STEEL SHELL ENCASED EPOXY COAT.		STEEL H HP 12X53		INDICATOR TEST PILE				PILE SHOE STEEL H					BOX BEAMS TYPE __	BULB-T BEAMS 60 X 48				
	SUPERSTR	SUBSTR	FOOTING	DIA-PHRAGMS	APPROACH SLAB		COARSE AGG.	GEO-TEXTILES											MIN PROVIDE	DRIVEN MIN	RESTRIKE												
	CYD	CYD	CYD	CYD	SYS		CYD	SYD	LBS	LBS	LBS	EACH	NO.	FT	NO.	FT	NO.	FT	NO.	FT	FT	EACH	EACH	LFT	EACH	FT	FT	FT	FT	EACH	SYS	EACH	SYS
BENT 1																																	
BENT 2																																	
SUPERSTRUCTURE																																	
WEST APPROACH SLAB																																	
EAST APPROACH SLAB																																	
TOTALS																																	

NOTE TO REVIEWER:
Final Quantities will be Provided at Stage 3.

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DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: JFM 08/2020 DRAWN: JLM 08/2020

CHECKED: MAK 08/2020 CHECKED: JFM 08/2020

INDIANA
DEPARTMENT OF TRANSPORTATION

BRIDGE SUMMARY

HORIZONTAL SCALE	BRIDGE FILE
N/A	15-00108
VERTICAL SCALE	DESIGNATION
N/A	1600719
	SHEETS
	23 of 38
CONTRACT	PROJECT
B-40273	1600719

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11/6/2020

PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE: COMPACTED AGGREGATE BASE	SURFACE BEYOND R/W LINE: HMA	SURFACE BEYOND R/W LINE: CONCRETE	GRADE 1	GRADE 2	EXCAVATION CUT	EXCAVATION FILL	CLEAR ZONE AT DRIVE	PCCP FOR APPROACHES 6"	PCCP FOR APPROACHES 9"	DENSE GRADED SUBBASE 6"	GEOGRID TYPE 1B	HMA FOR ROADWAY PAVEMENT: QC/QA-HMA, 2, 64, SURFACE 9.5 mm 165 #/SYS	HMA FOR ROADWAY PAVEMENT: QC/QA-HMA, 2, 64, INTER. 19.0 mm 385 #/SYS	HMA FOR ROADWAY PAVEMENT: QC/QA HMA, 2, 64, BASE 25.0 mm 330 #/SYS	HMA FOR TEMP. PAVEMENT: QC/QA-HMA, 2, 64, SURFACE 9.5 mm 330 #/SYS	HMA FOR TEMP. PAVEMENT: QC/QA-HMA, 2, 64, INTER. 19.0 mm 385 #/SYS	HMA FOR WIDENING, TYPE B	ASPHALT FOR TACK COAT	JOINT ADHESIVE, SURFACE	JOINT ADHESIVE, INTERMEDIATE	LIQUID ASHALT SEALANT	COMPACTED AGGREGATE, NO. 53 DEPTH 4"	COMPACTED AGGREGATE, NO. 53 DEPTH 6"	COMPACTED AGGREGATE, NO. 53 DEPTH 7"	COMP. AGG. SAFETY EDGE & SHOULDER, NO. 53 DEPTH Var.		TRANSITION MILLING	SUBGRADE TREATMENT, TYPE IBC	SUBGRADE TREATMENT, TYPE IC	SUBGRADE TREATMENT, TYPE II	REMARKS
		FT	FT	FT	FT	TON	TON	CYD	%	%	CYD	CYD	FT	SYD	SYD	CYD	SYD	TON	TON	TON	TON	TON		TON	LFT	LFT	LFT	CYD	CYD	CYD	TON	TON	SYS	SYS	SYS	SYS	
Line 'PR-A'																																						
Sta. 4+00.00 to 9+28.62		VARIES	529															194	404	288	28	21	12	1	1099	1024	1099	185	27	76	265		191	2189	89		
Sta. 10+80.38 to 14+75.00		VARIES	395															159	315	198	32	24	13	1	899	824	899	127	20	94	243		260	1700	98		
Line 'PR-S-1-A'																																						
Sta. 0+12.55 to 3+70.00		VARIES	357															102	213	47			5	1	357	307	357	30		157	184		116	1141	34		
Drive RT, Sta.6+78.75 'PR-A'	Class II	12	24.9	25/25										53		26.5																				53	
Drive RT, Sta. 14+09.77 'PR-A'	Class II	18.9	38	25/15	2.4									98		49																				98	
Drive LT, Sta. 0+96.43 'PR-S-1-A'	Class IV	12	40.1	20/20	15.1										77	38.5	77																			77	
TOTALS														151	77	114	77	455	932	533	60	45	30	3	2356	2156	2356	342	47	327	692		567	5030	221	228	

GUARDRAIL SUMMARY TABLE

LOCATION: FROM STATION	LOCATION: TO STATION	LEFT	MEDIAN LEFT	MEDIAN RIGHT	RIGHT	MGS W-BEAM GUARDRAIL LENGTH: STANDARD POST AT 6'-3" SPA. FEET	STANDARD POST AT 3'-1.5" SPA. FEET	STANDARD POST AT 1'-6.75" SPA. FEET	DOUBLE FACED AT 6'-3" SPA. FEET	GUARDRAIL FLARE RATE	MGS GUARDRAIL HEIGHT TRANSITION EACH	GUARDRAIL TRANSITION TYPE TGS-1 EACH	GUARDRAIL TRANSITION TYPE GP EACH	CABLE TERMINAL ANCHOR EACH	GUARDRAIL END TREATMENT OS EACH	CURVED W-BEAM GUARDRAIL SYSTEM: TERMINAL SYSTEM TYPE	TERMINAL SYSTEM EACH	CONNECTOR SYSTEM TYPE	CONNECTOR SYSTEM EACH	GUARDRAIL REMOVE LFT	GUARDRAIL RESET LFT	REMARKS
LINE 'PR-A'																						
7+82.62	9+51.37				X	62.50					1	1			1							
10+57.63	11+63.88				X						1	1			1							
0+81.51*	9+63.87	X				6.25						1		1				2	1			
10+57.63	11+63.88	X									1	1			1							
TOTALS						68.75					3	4		1	3				1			

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION: STATION	LOCATION: LEFT	LOCATION: CROSS	LOCATION: RIGHT	SIZE INCH	PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH FEET	SKEW	FLOW LINE: COVER FT	FLOW LINE: UP STREAM ELEV.	FLOW LINE: DOWN STREAM ELEV.	SERVICE LIFE YR.	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURE BACKFILL TYPE 1 CYD	REVETMENT RIPRAP TON	GEOTEXTILES FOR RIPRAP, TYPE IA SYD	PIPE END SECTION EA.	GRATED BOX END SECTION: TYPE	GRATED BOX END SECTION: SLOPE	GRATED BOX END SECTION: EA.	SAFETY METAL END SECTION: TYPE	SAFETY METAL END SECTION: SLOPE	SAFETY METAL END SECTION: EA.	CONNECT TO STR.	REMARKS
11	0+38.03 'PR-S-1-A'		X		15	2	INLET, TYPE E7	125	17	2.0			50		8.0	1	146	8	8	1								
12	1+17.78 'PR-S-1-A'		X		15	2		91	0	2.0			50		8.0	1	63	8	8	2								

R/W MARKERS

STATION	OFFSET ft	EACH
LINE 'PR-A'		
4+00.00, Lt.	10.18	1
4+00.00, Lt.	30.00	1
4+00.00, Rt.	10.02	1
4+00.00, Rt.	30.16	1
5+00.00, Lt.	55.00	1
5+00.00, Rt.	55.00	1
7+55.00, Rt.	55.00	1
7+70.00, Rt.	75.00	1
8+20.00, Lt.	55.00	1
8+47.63, Lt.	62.50	1
8+64.13, Lt.	70.31	1
9+78.23, Lt.	71.52	1
10+75.00, Lt.	77.00	1
10+75.00, Rt.	75.00	1
11+40.83, Lt.	77.00	1
12+40.00, Rt.	50.00	1
12+64.87, Lt.	57.88	1
12+64.87, Lt.	47.88	1
14+75.00, Rt.	50.00	1
14+75.00, Rt.	9.38	1
LINE 'PR-S-1-A'		
1+00.00, Lt.	53.58	1
1+20.00, Lt.	41.36	1
1+26.00, Rt.	72.49	1
1+26.00, Rt.	45.83	1
2+10.00, Lt.	29.49	1
TOTAL		25

EARTHWORK SUMMARY TABLE

Common Excavation		
Line 'PR-A' Harrison-Brookville Road (Sta. 4+00 to 14+75)	1,956	CYS
LINE 'PR-S-1-A' Johnson Fork Road (Sta. 0+00 to 3+70)	298	CYS
Additional Asphalt Pavement Removed Outside of Excavation Limits	0	CYS
Subtotal Common Excavation	2,254	CYS
Common Excavation (Undistributed)	0	CYS
Total Common Excavation	2,254	CYS
Fill		
Line 'PR-A' Harrison-Brookville Road (Sta. 4+00 to 14+75)	4,031	CYS
LINE 'PR-S-1-A' Johnson Fork Road (Sta. 0+00 to 3+70)	462	CYS
Additional Fill for Asphalt Pavement Removed Outside of Excavation Limits	0	CYS
Subtotal Fill	4,493	CYS
Subtotal + 15% Swell	5,167	CYS
Less Usable Common Excavation (Assumed 50% of Total Common Excavation)	1,127	CYS
Total Borrow Required (+25% Swell)	5,050	CYS
Benching (No Direct Payment)	1,243	CYS

SURVEY MONUMENTS

STATION	EACH: Type B	EACH: Section Corner
LINE 'PR-A'		
P.C. 4+00.00	1	
8+63.39		1
P.T. 14+75.00	1	
LINE 'PR-S-1-A'		
P.C. 0+93.41	1	
P.T. 1+73.54	1	
P.C. 3+20.07	1	
TOTAL	5	1

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DESIGNED: AMH DRAWN: JLM

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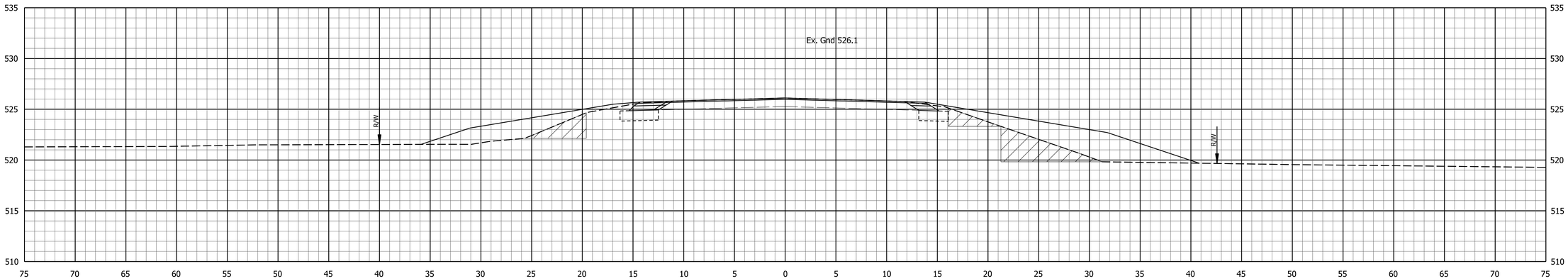
INDIANA
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS TABLES

HORIZONTAL SCALE	BRIDGE FILE
N.T.S.	15-00108
VERTICAL SCALE	DESIGNATION
N.T.S.	1600719
SURVEY BOOK	SHEETS
1600719	24 of 38
CONTRACT	PROJECT
B-40273	1600719

BEGIN PROJECT 4+75

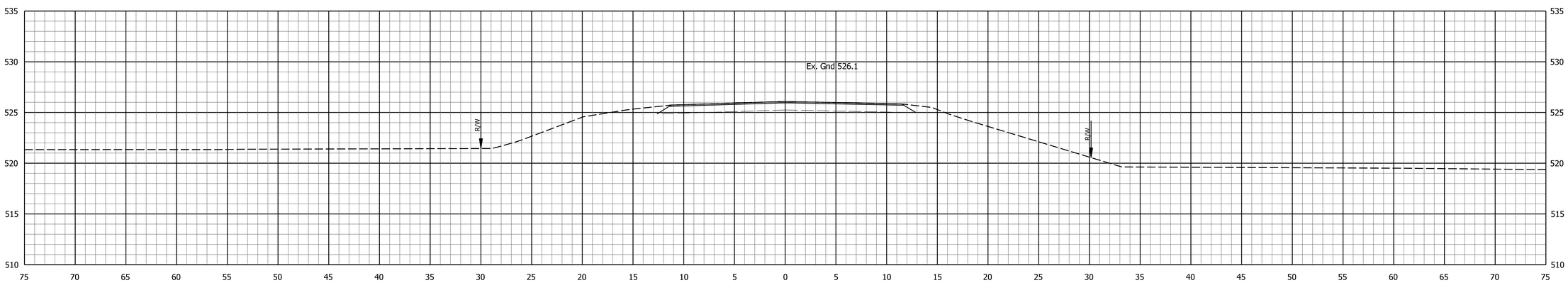


Ac = 12.7 SFT
Vc = 12 CYS

Af = 21.0 SFT
Vf = 19 CYS

Ab = 30.0 SFT
Vb = 28 CYS

4+50



Ac = 0.0 SFT
Vc = 0 CYS

Af = 0.0 SFT
Vf = 0 CYS

Ab = 0.0 SFT
Vb = 0 CYS

4+00

BEGIN INCIDENTAL CONSTRUCTION 4+00

STA. 4+00 TO STA. 4+50

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DESIGNED: AMH DRAWN: JLM

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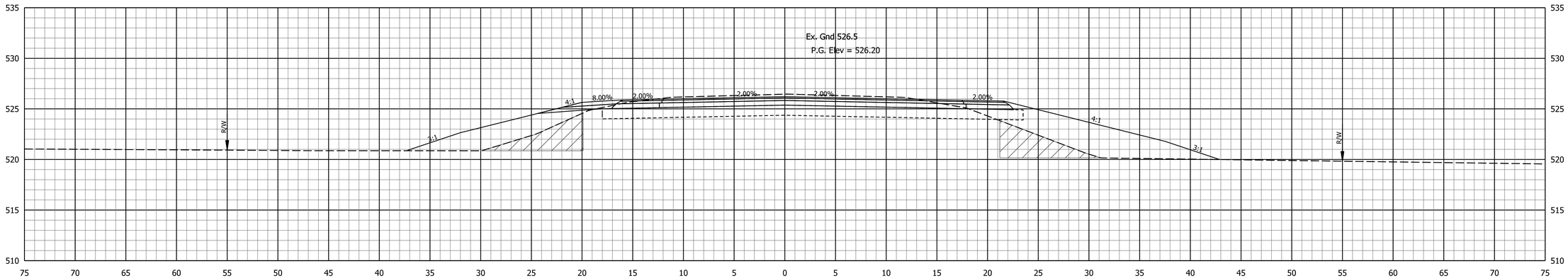
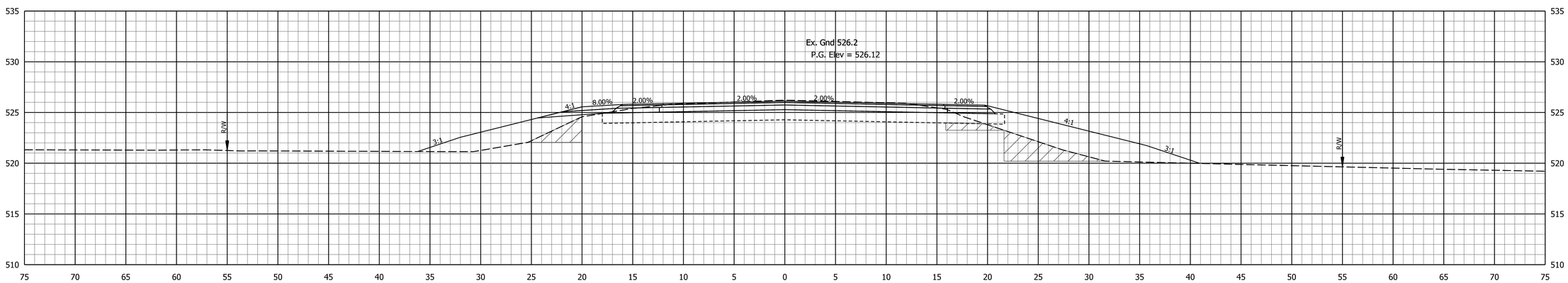
INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	15-00108
VERTICAL SCALE	DESIGNATION
	1600719
SURVEY BOOK	SHEETS
1600719	25 of 38
CONTRACT	PROJECT
B-40273	1600719



5+50



5+00

STA. 5+00 TO STA. 5+50

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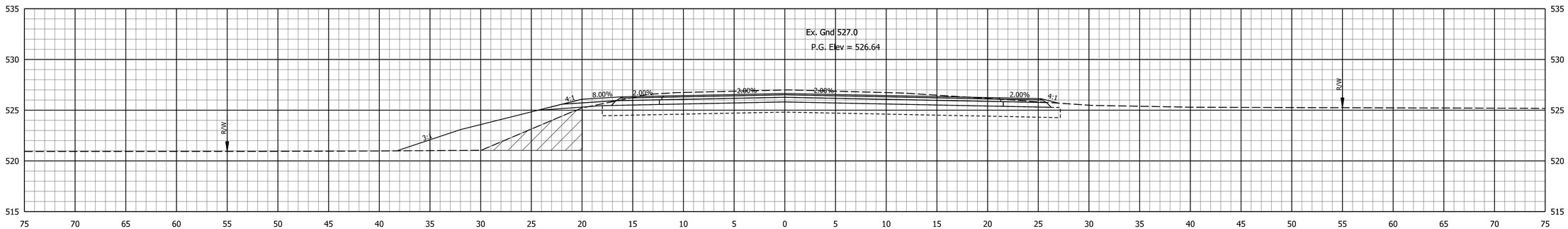
INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	15-00108
VERTICAL SCALE	DESIGNATION
	1600719
SURVEY BOOK	SHEETS
1600719	26 of 38
CONTRACT	PROJECT
B-40273	1600719

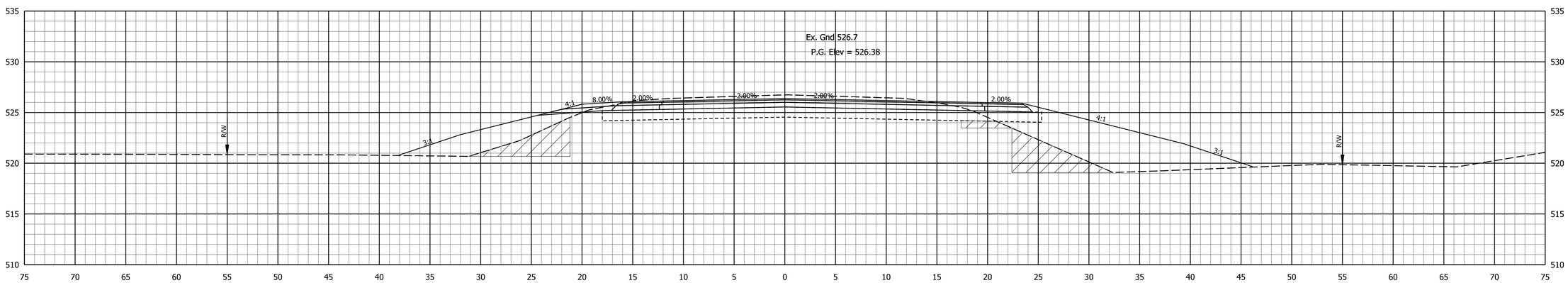


Ac = 88.4 SFT
Vc = 150 CYS

Af = 26.5 SFT
Vf = 110 CYS

Ab = 21.1 SFT
Vb = 59 CYS

6+50



Ac = 74.1 SFT
Vc = 133 CYS

Af = 92.8 SFT
Vf = 151 CYS

Ab = 42.1 SFT
Vb = 71 CYS

6+00

STA. 6+00 TO STA. 6+50

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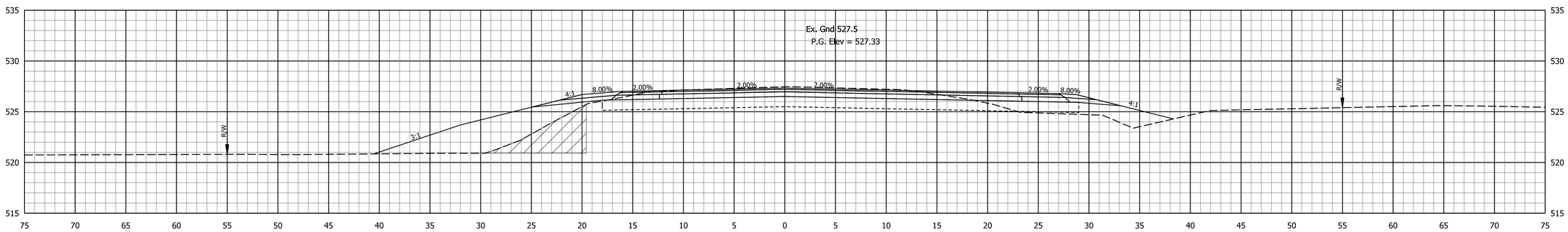
INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	15-00108
VERTICAL SCALE	DESIGNATION
	1600719
SURVEY BOOK	SHEETS
1600719	27 of 38
CONTRACT	PROJECT
B-40273	1600719

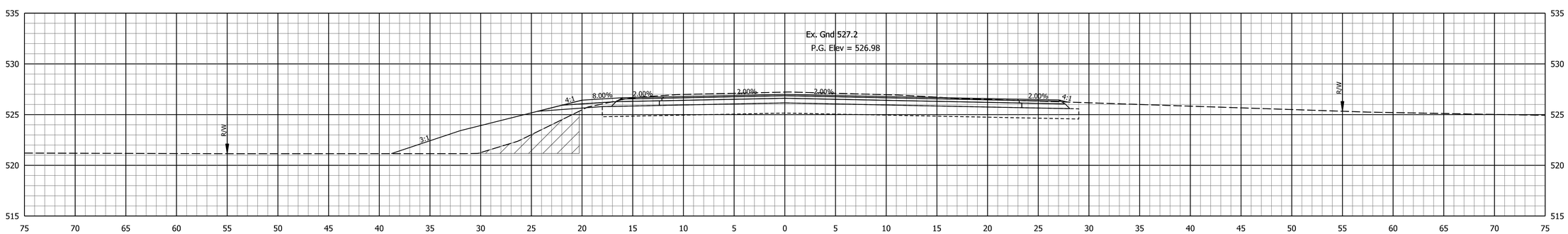


Ac = 66.4 SFT
Vc = 144 CYS

Af = 53.6 SFT
Vf = 79 CYS

Ab = 22.1 SFT
Vb = 38 CYS

7+50



Ac = 88.8 SFT
Vc = 164 CYS

Af = 31.4 SFT
Vf = 54 CYS

Ab = 18.6 SFT
Vb = 37 CYS

7+00

STA. 7+00 TO STA. 7+50

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11/9/2020

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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

DESIGNED: AMH | DRAWN: JLM

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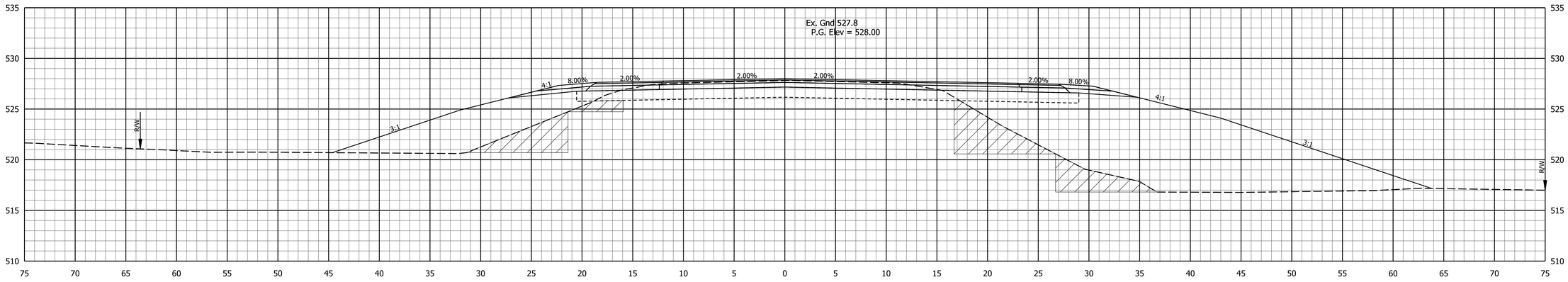
INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	15-00108
VERTICAL SCALE	DESIGNATION
	1600719

SURVEY BOOK	SHEETS
1600719	28 of 38
CONTRACT	PROJECT
B-40273	1600719

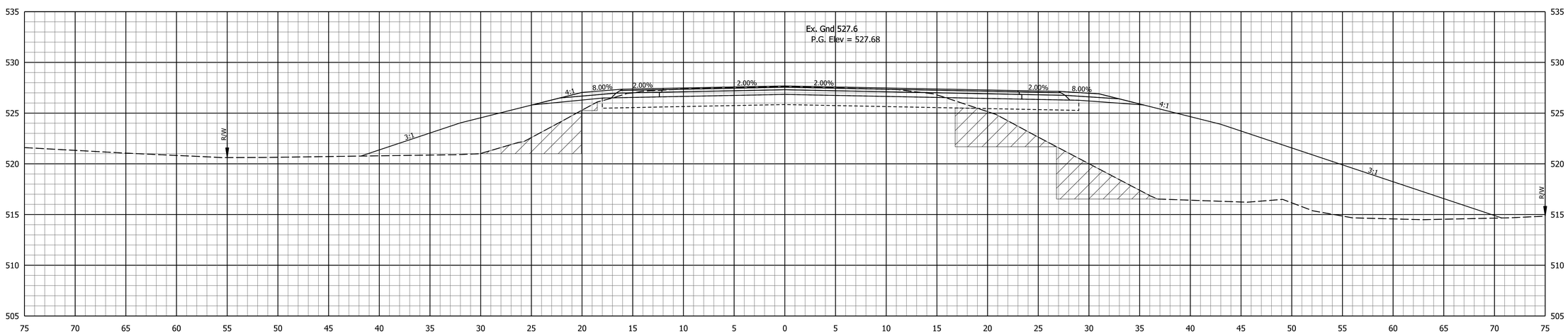


Ac = 51.4 SFT
Vc = 100 CYS

Af = 292.7 SFT
Vf = 545 CYS

Ab = 70.0 SFT
Vb = 128 CYS

8+50



Ac = 56.8 SFT
Vc = 114 CYS

Af = 296.4 SFT
Vf = 324 CYS

Ab = 68.4 SFT
Vb = 84 CYS

8+00

STA. 8+00 TO STA. 8+50

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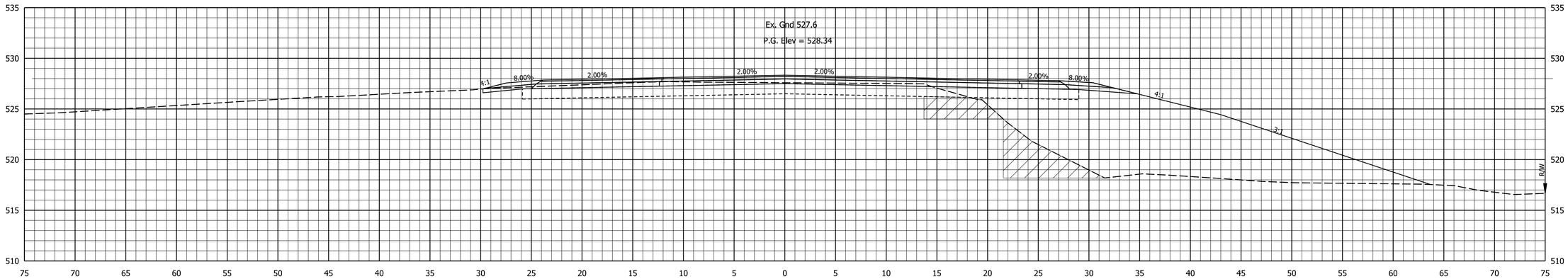
INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	15-00108
VERTICAL SCALE	DESIGNATION
	1600719

SURVEY BOOK	SHEETS
1600719	29 of 38
CONTRACT	PROJECT
B-40273	1600719

BEGIN PAVEMENT EXCEPTION 9+28.62

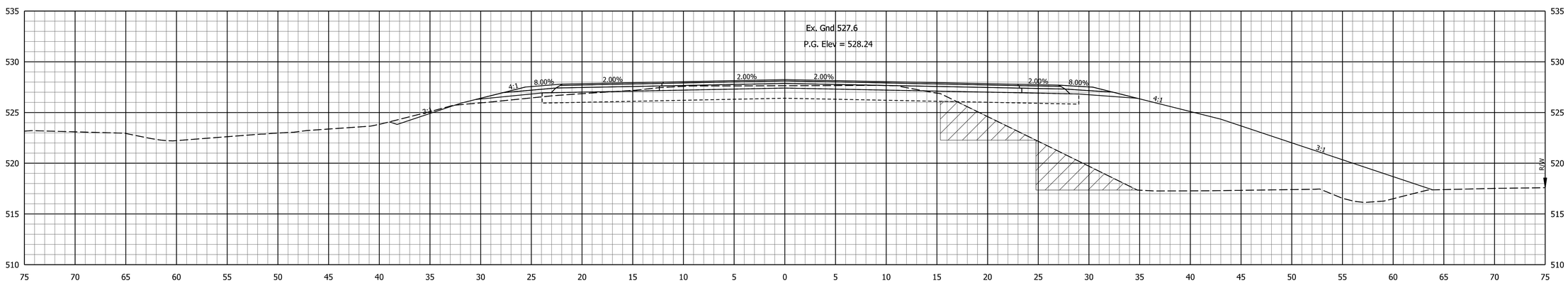


Ac = 53.2 SFT
Vc = 54 CYS

Af = 208.7 SFT
Vf = 232 CYS

Ab = 40.4 SFT
Vb = 46 CYS

9+28.62



Ac = 48.9 SFT
Vc = 93 CYS

Af = 229.1 SFT
Vf = 483 CYS

Ab = 45.6 SFT
Vb = 107 CYS

9+00

STA. 9+00 TO STA. 9+28.62

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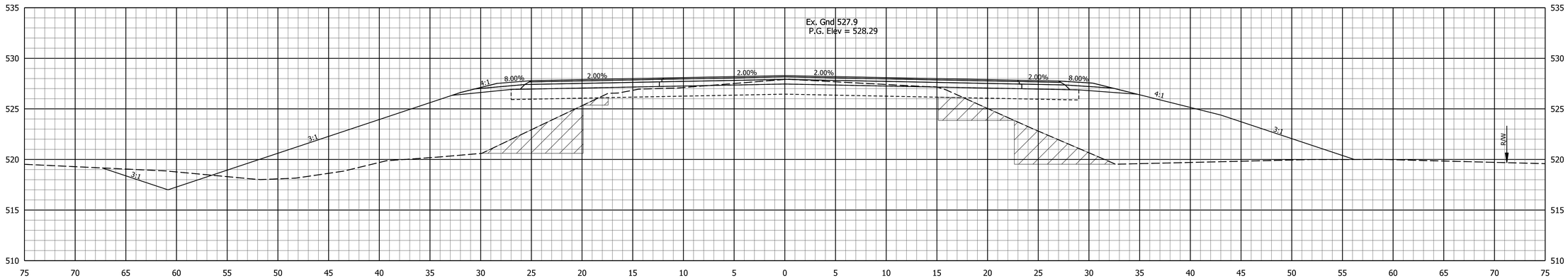
INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	15-00108
VERTICAL SCALE	DESIGNATION
	1600719
SURVEY BOOK	SHEETS
1600719	30 of 38
CONTRACT	PROJECT
B-40273	1600719



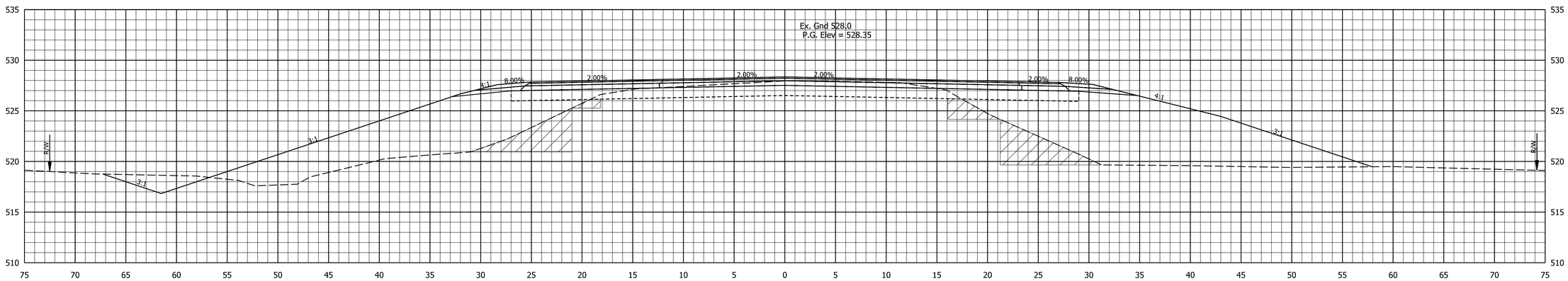
Ac = 46.8 SFT
Vc = 36 CYS

Af = 274.4 SFT
Vf = 201 CYS

Ab = 57.8 SFT
Vb = 40 CYS

11+00

END PAVEMENT EXCEPTION 10+80.38



Ac = 52.8 SFT
Vc = 0 CYS

Af = 280.0 SFT
Vf = 0 CYS

Ab = 51.0 SFT
Vb = 0 CYS

10+80.38

STA. 10+80.38 TO STA. 11+00

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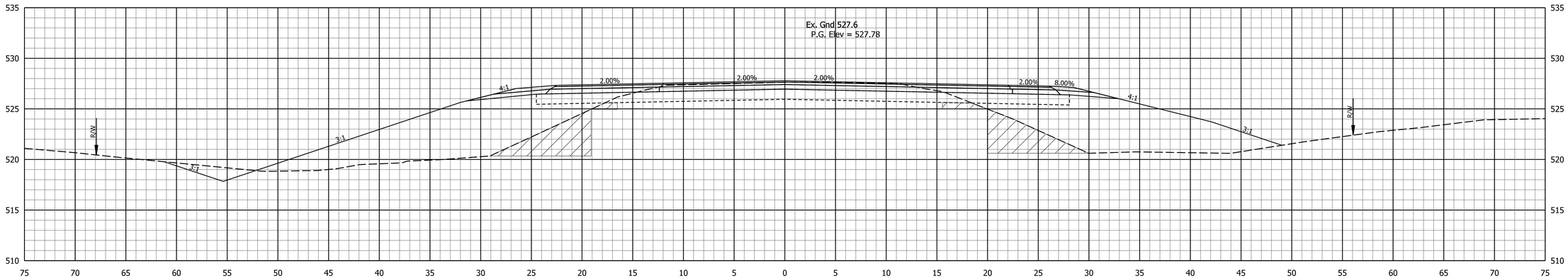
CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	15-00108
VERTICAL SCALE	DESIGNATION
	1600719
SURVEY BOOK	SHEETS
1600719	31 of 38
CONTRACT	PROJECT
B-40273	1600719

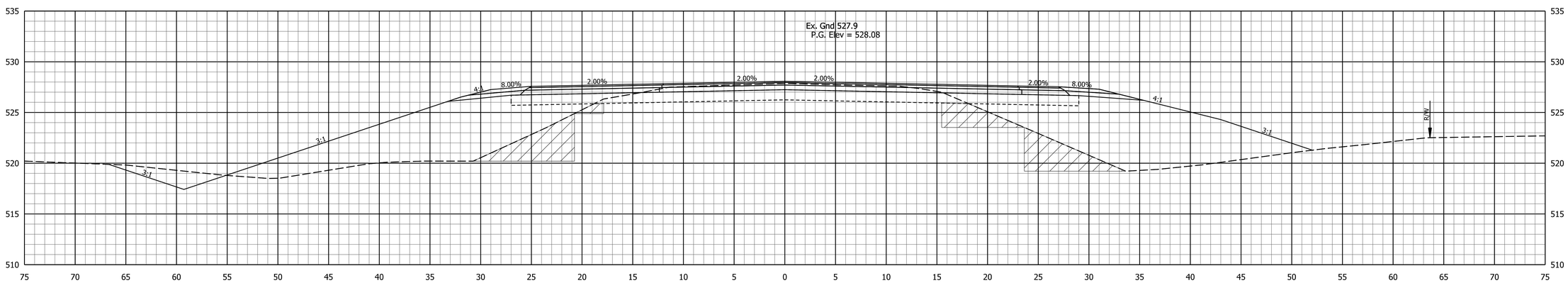


Ac = 58.7 SFT
Vc = 110 CYS

Af = 200.8 SFT
Vf = 413 CYS

Ab = 49.0 SFT
Vb = 100 CYS

12+00



Ac = 59.7 SFT
Vc = 99 CYS

Af = 245.1 SFT
Vf = 481 CYS

Ab = 59.2 SFT
Vb = 108 CYS

11+50

STA. 11+50 TO STA. 12+00

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11/6/2020

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INDIANA
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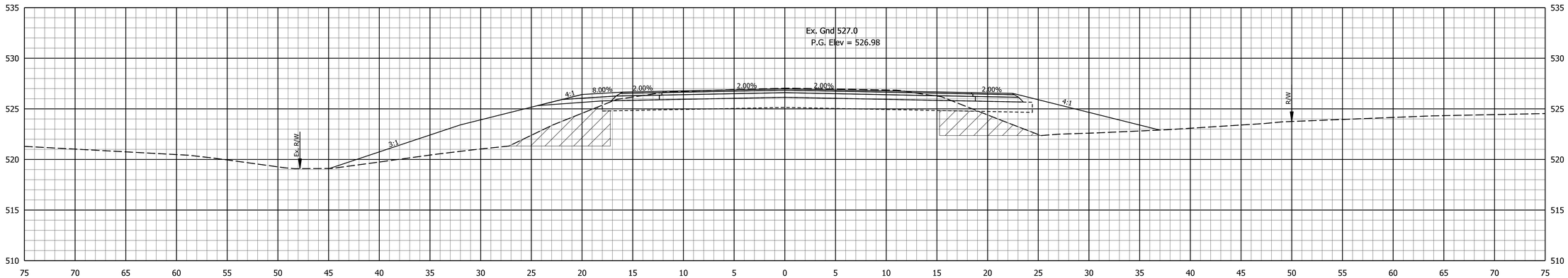
CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	15-00108
VERTICAL SCALE	DESIGNATION
	1600719
SURVEY BOOK	SHEETS
1600719	32 of 38
CONTRACT	PROJECT
B-40273	1600719

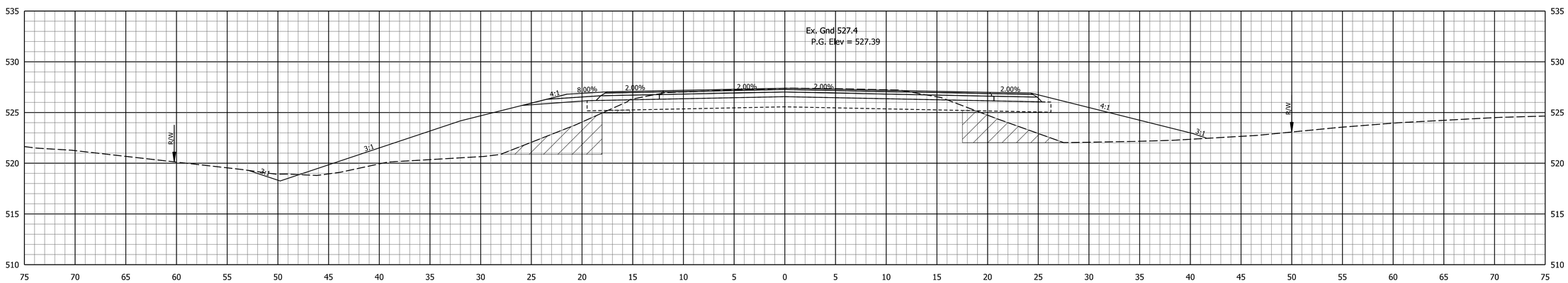


Ac = 60.7 SFT
Vc = 110 CYS

Af = 77.8 SFT
Vf = 182 CYS

Ab = 38.9 SFT
Vb = 71 CYS

13+00



Ac = 57.6 SFT
Vc = 108 CYS

Af = 118.5 SFT
Vf = 296 CYS

Ab = 38.3 SFT
Vb = 81 CYS

12+50

STA. 12+50 TO STA. 13+00

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DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: AMH DRAWN: JLM

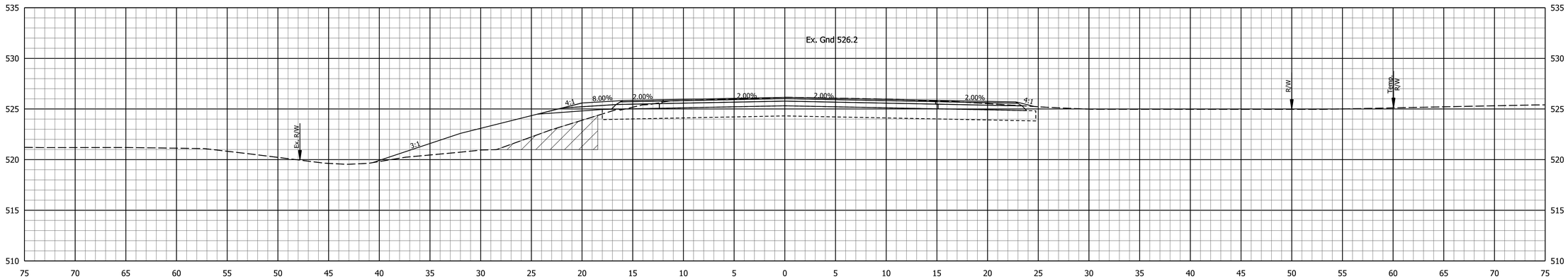
CHECKED: FS CHECKED: FS

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	15-00108
VERTICAL SCALE	DESIGNATION
	1600719
SURVEY BOOK	SHEETS
1600719	33 of 38
CONTRACT	PROJECT
B-40273	1600719

END PROJECT

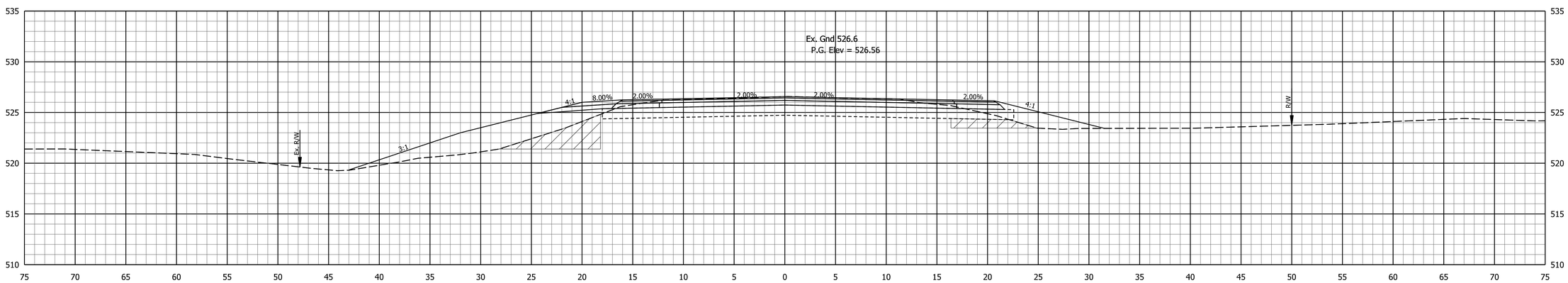


Ac = 70.8 SFT
Vc = 122 CYS

Af = 32.2 SFT
Vf = 75 CYS

Ab = 17.5 SFT
Vb = 37 CYS

14+00



Ac = 61.1 SFT
Vc = 113 CYS

Af = 48.5 SFT
Vf = 117 CYS

Ab = 22.5 SFT
Vb = 57 CYS

13+50

STA. 13+50 TO STA. 14+00

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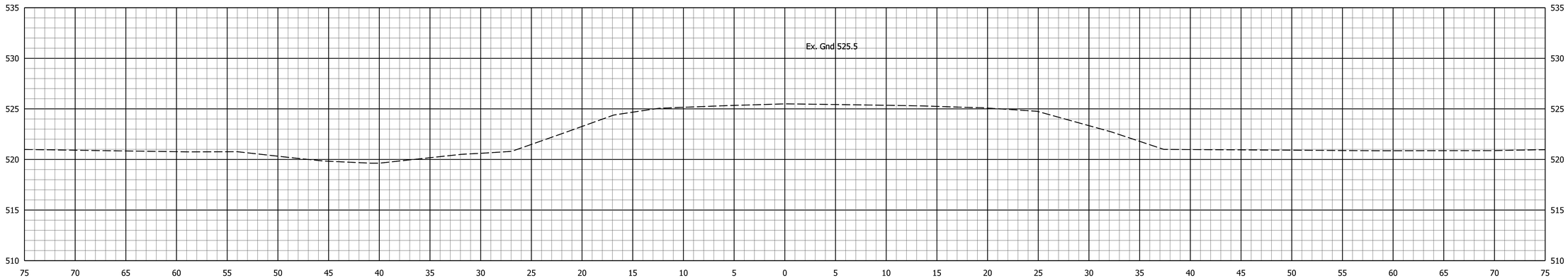
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	15-00108
VERTICAL SCALE	DESIGNATION
	1600719
SURVEY BOOK	SHEETS
1600719	34 of 38
CONTRACT	PROJECT
B-40273	1600719



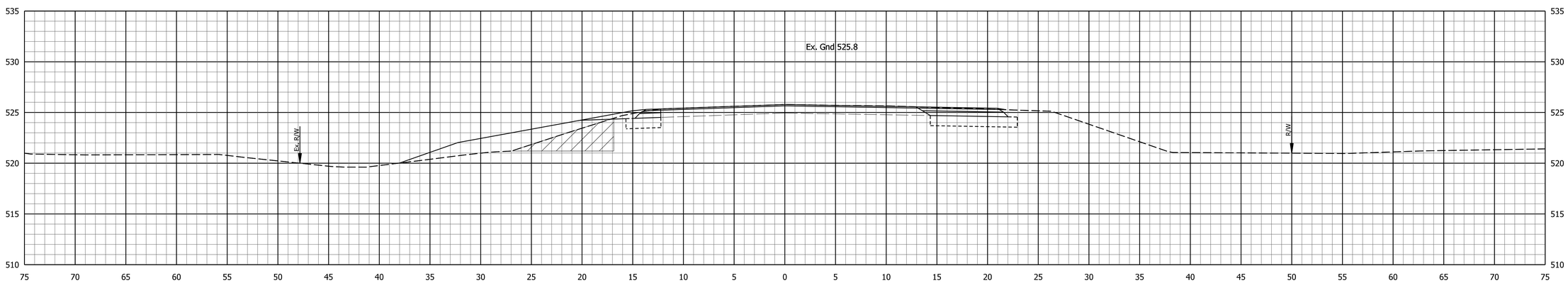
Ac = 0.0 SFT
Vc = 20 CYS

Af = 0.0 SFT
Vf = 22 CYS

Ab = 0.0 SFT
Vb = 15 CYS

15+00

END INCIDENTAL CONSTRUCTION 14+75



Ac = 21.5 SFT
Vc = 85 CYS

Af = 23.6 SFT
Vf = 52 CYS

Ab = 16.4 SFT
Vb = 31 CYS

14+50

STA. 14+50 TO STA. 15+00

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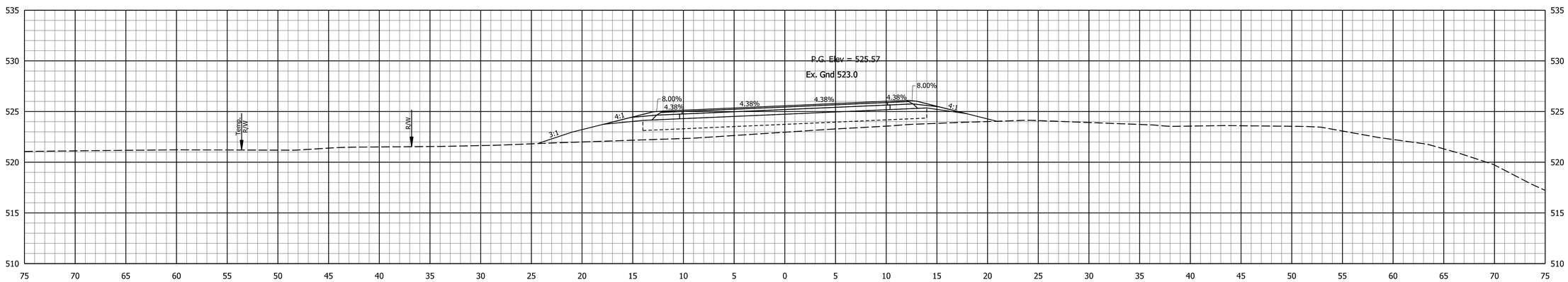
CROSS SECTIONS
LINE "PR-A"

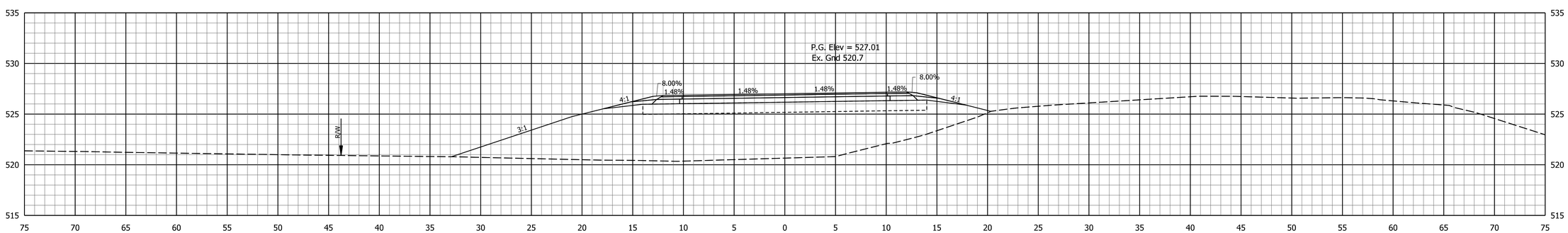
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	15-00108
VERTICAL SCALE	DESIGNATION
	1600719
SURVEY BOOK	SHEETS
1600719	35 of 38
CONTRACT	PROJECT
B-40273	1600719



Ac = 0.0 SFT
Vc = 0 CYS

Af = 40.5 SFT
Vf = 213 CYS

1+00



Ac = 0.2 SFT
Vc = 0 CYS

Af = 189.3 SFT
Vf = 0 CYS

0+50

STA. 0+50.00 TO STA. 1+00.00

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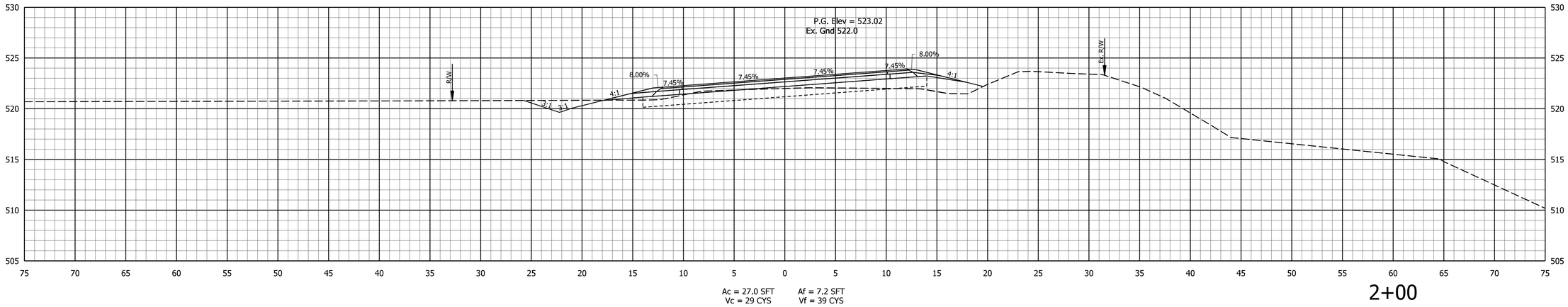
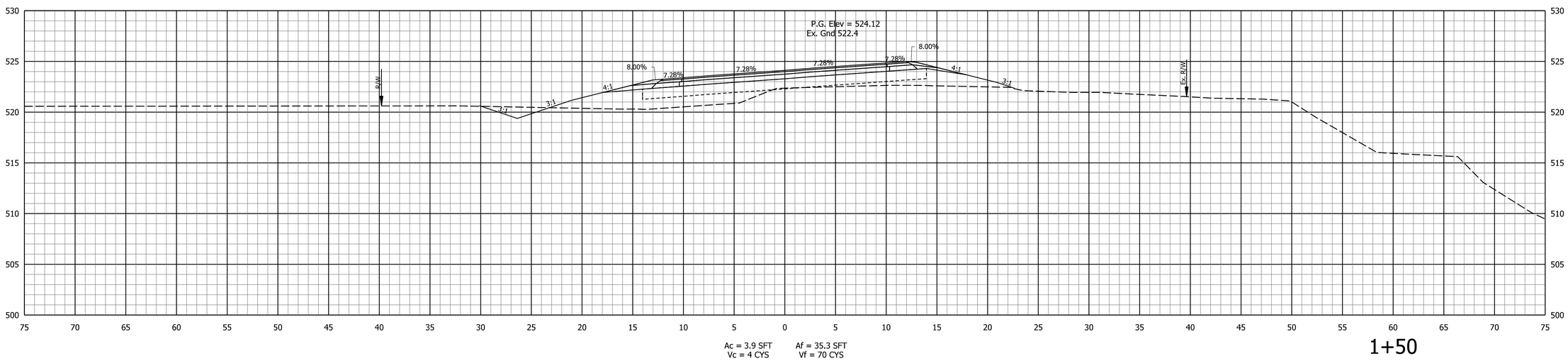
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-S-1-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	15-00108
VERTICAL SCALE	DESIGNATION
	1600719

SURVEY BOOK	SHEETS
1600719	36 of 38
CONTRACT	PROJECT
B-40273	1600719





STA. 1+50.00 TO STA. 2+00.00

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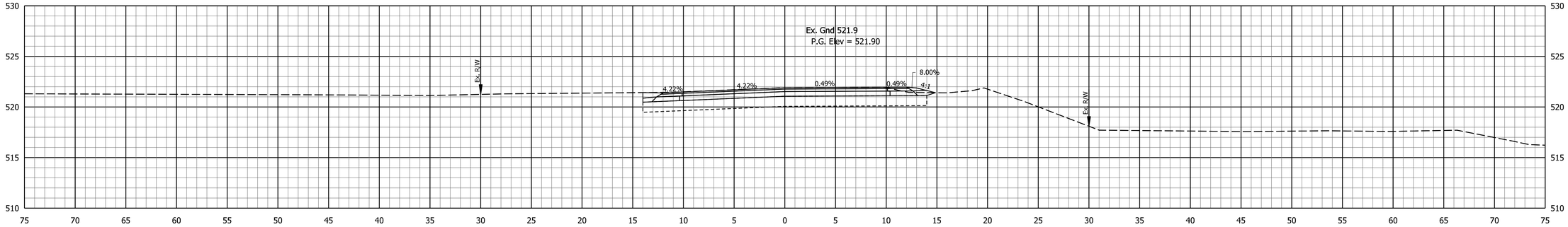
INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-S-1-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	15-00108
VERTICAL SCALE	DESIGNATION
	1600719

SURVEY BOOK	SHEETS
1600719	37 of 38
CONTRACT	PROJECT
B-40273	1600719

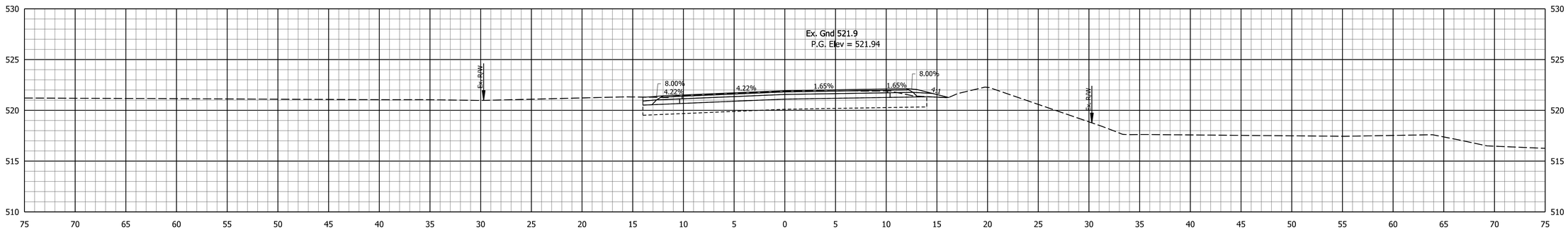
END INCIDENTAL CONSTRUCTION 3+70



Ac = 68.1 SFT Af = 0.0 SFT
Vc = 49 CYS Vf = 0 CYS

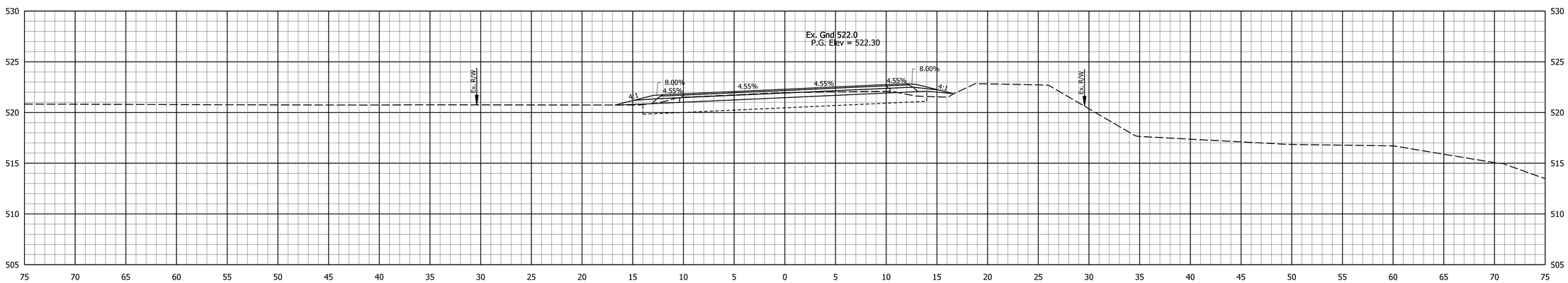
3+20

END PROJECT 3+20



Ac = 64.7 SFT Af = 0.0 SFT
Vc = 107 CYS Vf = 1 CYS

3+00



Ac = 50.3 SFT Af = 0.9 SFT
Vc = 72 CYS Vf = 8 CYS

2+50

STA. 2+50.00 TO STA. 3+20.00

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CROSS SECTIONS
LINE "PR-S-1-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	15-00108
VERTICAL SCALE	DESIGNATION
	1600719
SURVEY BOOK	SHEETS
1600719	38 of 38
CONTRACT	PROJECT
B-40273	1600719