CONTRACT No.

INDIANA DEPARTMENT OF HIGHWAYS

RIGHT OF WAY PLANS

FOR SPANS OVER 20 FEET ON U.S. ROAD 52

PROJECT NO. ST-082-5 (1) R/W

COMMENCING AT THE NORTHWEST CORNER OF SECTION 5, T.13 N., R.10 E., RUSHVILLE TOWNSHIP, RUSH COUNTY, INDIANA, AND EXTENDING SOUTHERLY ALONG SAID SECTION LINE A DISTANCE OF 2989.01 FEET TO A POINT, THENCE EASTERLY A DISTANCE OF 229.70 FEET TO A POINT ON LINE "PR" AND "F" SAID POINT BEING THE POINT OF BEGINNING FOR THIS PROJECT, THENCE CONTINUING NORTHWESTERLY ALONG LINE "PR" AND "F" A DISTANCE OF 750 FEET TO THE TERMINUS.

BRIDGE	LENGTH: = 0.065	MI.
ROADWAY	LENGTH: = 0.858	MI.
TOTAL	LENGTH: = 0.151	MI.
MAX.	GRADE : -2.85	%

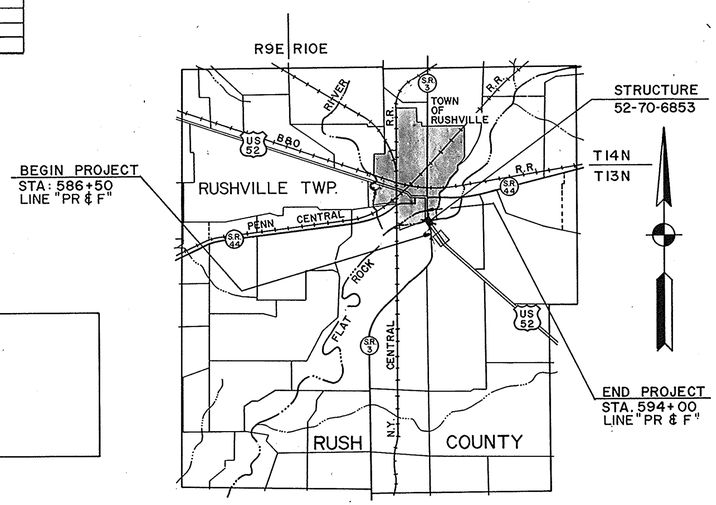
R/W INDEX

PROJECT	STRUCTURE	TYPE	SPAN	OVER	STATION
ST-082-5(1)	52-70-6853	CONT. COMP. STEEL BEAM	3 SPANS 106'-0, 131'-0 106'-0	FLAT ROCK RIVER	590+40

SHEET NO.	SHEET DESIGNATION	SUBJECT	F.H.W.A. APPROVAL
1	ONE SHEET	INDEX AND TITLE SHEET	
2	ONE SHEET	PARCEL LISTING FOR LAND ACQUISITION	
3	ONE SHEET	TYPICAL CROSS SECTIONS	
4	ONE SHEET	PLAT NO. 1	
5	ONE SHEET	SUPERELEVATION DIAGRAM	
6	ONE SHEET	ROAD PLAN & PROFILE	
7	S-1	LAYOUT	
8	S-2	GENERAL PLAN	
9	ONE SHEET	BRIDGE SUMMARY	

TRAFFIC DATA

A.D.T. (1983)	12,141	V.P.D.
A.D.T. (2003 PROJECTED)	15,316	V.P.D.
D.H.V. (2003 PROJECTED)	1,378	V.P.D.
TRUCKS	D.H.V. 3%	A.D.T. 4%
DESIGN SPEED	30	M.P.H.
ACCESS CONTROL	NONE	



LOCATION PLAN

0 1 2 3
SCALE IN MILES

PLANS PREPARED BY:

MTA, Inc.
CONSULTING ENGINEERS
INDIANAPOLIS, INDIANA

CERTIFIED _____

DATE _____

NOTE:
WHEREVER "INDIANA STATE HIGHWAY COMMISSION" APPEARS IN THESE PLANS, IT SHALL BE INTERPRETED AS "INDIANA DEPARTMENT OF HIGHWAYS" EXCEPT THE 1978 INDIANA STATE HIGHWAY COMMISSION SPECIFICATIONS SHALL BE USED.

INDIANA STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS DATED 1978 TO BE USED WITH THESE PLANS.

REVISIONS	
DATE	SHEET NO.

REVISIONS	
DATE	SHEET NO.

CODE NO. 2213

BRIDGES OVER 20' SPAN

FEDERAL REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	ST-082-5(1)	198	1	9

INDEX CONTINUED
STANDARD DRAWINGS

SHEET NO.	SHEET DESIGNATION	SUBJECT	F.H.W.A. APPROVAL	ADOPTED "A" REVISION "R"
	BRIDGE STD. BR1	ALUMINUM BRIDGE RAILING		
	BRIDGE STD. BR2	ALUMINUM BRIDGE RAILING DETAILS		
	BRIDGE STD. BR3	STEEL BRIDGE RAILING		
	BRIDGE STD. BR4	STEEL BRIDGE RAILING DETAILS		
	BRIDGE STD. BR5	RAILING CONNECTION DETAILS		
	BRIDGE STD. BR6	RAILING CONNECTION DETAILS		
	BRIDGE STD. C1	MISCELLANEOUS DETAILS		
	BRIDGE STD. C2	MISCELLANEOUS DETAILS		
	BRIDGE STD. C3	MISCELLANEOUS DETAILS		
	BRIDGE STD. C4	MISCELLANEOUS DETAILS		
	BRIDGE STD. D	CASTING DETAILS ROADWAY DRAINS		
	BRIDGE STD. D1	ADJUSTING FRAME DETAILS FOR ROADWAY DRAINS		
	BRIDGE STD.			
	BRIDGE STD. PB	PRESTRESSED CONCRETE TYPE I-BEAMS		
	BRIDGE STD. PB	PRESTRESSED CONCRETE TYPE I-BEAMS		
	BRIDGE STD. PB6	PRESTRESSED BOX BEAMS		
	BRIDGE STD. PB	PRESTRESSED COMPOSITE BOX BEAMS WIDE		
	BRIDGE STD. PB	PRESTRESSED COMPOSITE BOX BEAMS WIDE		
	BRIDGE STD. PB10	TOLERANCES FOR FABRICATION OF PRESTRESSED BEAMS		
	BRIDGE STD. PB11	ELASTOMERIC BEARING PAD DETAILS		
	BRIDGE STD.			
	BRIDGE STD.			
	BRIDGE STD. R2A	BRIDGE LIGHTING DETAILS		
	BRIDGE STD. R2B	BRIDGE LIGHTING DETAILS		
	BRIDGE STD. S1	MISCELLANEOUS DETAILS		
	BRIDGE STD. SH1	STEEL SHOE DETAILS		
	BRIDGE STD. T SHEET A	STANDARD TEMPORARY BRIDGE		
	BRIDGE STD. T SHEET B	STANDARD TEMPORARY BRIDGE		
	BRIDGE STD.			
	BRIDGE STD.			
	BRIDGE STD.			
	BRIDGE STD.			
	BRIDGE STD.			
	ROAD STD. SHEET A	STANDARD PAVEMENT JOINTS		
	ROAD STD. SHEET B	STANDARD PAVEMENT JOINTS		
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS		
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	ROAD STD. SHEET	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET GR	GUARD RAIL CLASS		
	ROAD STD. SHEET GR	GUARD RAIL CLASS		
	ROAD STD. SHEET GR	GUARD RAIL CLASS		
	ROAD STD. SHEET GR	GUARD RAIL CLASS		
	ROAD STD. SHEET GR5	ALUMINUM GUARD RAIL DETAILS		
	ROAD STD. SHEET GR6	STEEL TUBE GUARD RAIL DETAILS		
	ROAD STD. SHEET GR7	GUARD RAIL PIER CONNECTION DETAILS		
	ROAD STD. SHEET GR8	STEEL BEAM GUARD RAIL		
	ROAD STD. SHEET GR9	ALUMINUM BEAM GUARD RAIL		
	ROAD STD. SHEET GR10	GUARD RAIL BURIED ENDS		
	ROAD STD. SHEET GR10A	GUARD RAIL BREAKAWAY CABLE TERM.		
	ROAD STD.			
	ROAD STD. SHEET CB2	TEMPORARY CONCRETE BARRIER		
	TRAFFIC STD. SHEET 9	TRAFFIC SIGN DETAILS		
	ROAD STD. SHEET 1 DETOURS	STANDARD DETOUR SIGNS		
	ROAD STD. SHEET 1A DETOURS	STANDARD DETOUR SIGNS		
	ROAD STD. SHEET 1B DETOURS	STANDARD DETOUR SIGNS		
	ROAD STD. SHEET 2 DETOURS	STANDARD DETOUR SIGNS		
	ROAD STD. SHEET 2A DETOURS	STANDARD DETOUR SIGNS		
	ROAD STD. SHEET 3 DETOURS	STANDARD DETOUR SIGNS		
	ROAD STD. SHEET 3A DETOURS	STANDARD DETOUR SIGNS		
	ROAD STD. SHEET 4 DETOURS	STANDARD DETOUR SIGNS		
	ROAD STD. SHEET 5 DETOURS	STANDARD DETOUR SIGNS		
	ROAD STD. SHEET 5A DETOURS	STANDARD DETOUR SIGNS		

APPROVED 8-27-86

John W. Bosworth
CHIEF, DIVISION OF LAND ACQUISITION
RIGHT OF WAY PLANS ONLY

RECOMMENDED FOR APPROVAL 8-27-86

Bill Wood
ENGINEER OF LAND ACQUISITION

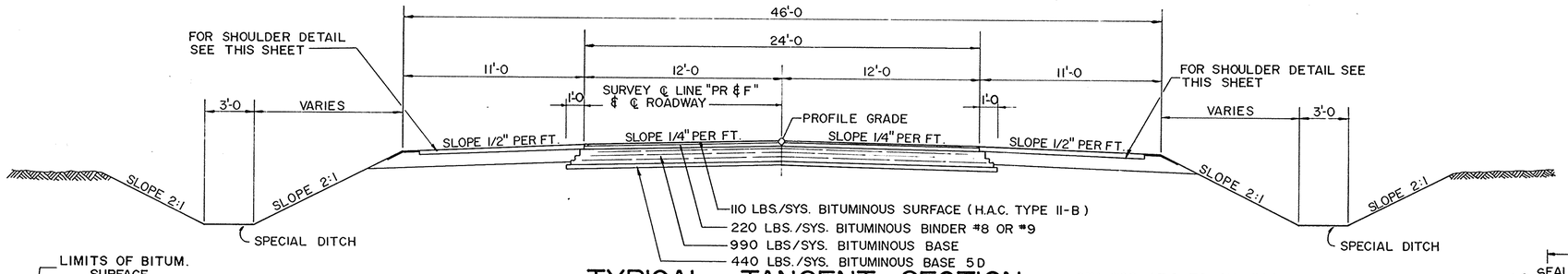
FEDERAL HIGHWAY ADMINISTRATION
DEPARTMENT OF TRANSPORTATION

APPROVED:

DIVISION ADMINISTRATOR DATE

BRIDGE FILE: 52-70-6853

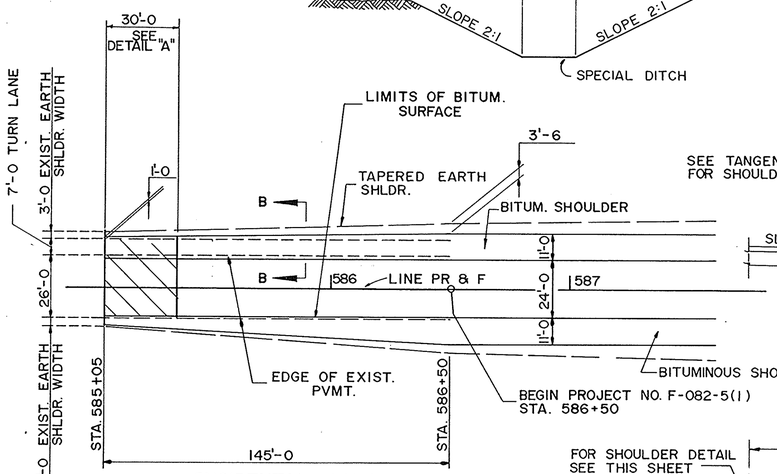
TP100



TYPICAL TANGENT SECTION

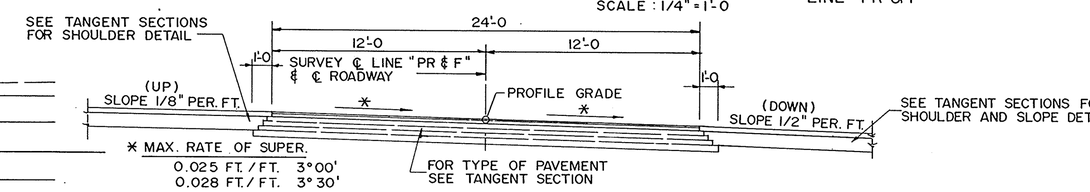
STA. 588+43.9 TO STA. 588+46
LINE "PR & F"

SCALE : 1/4" = 1'-0



INCIDENTAL CONSTRUCTION DETAIL

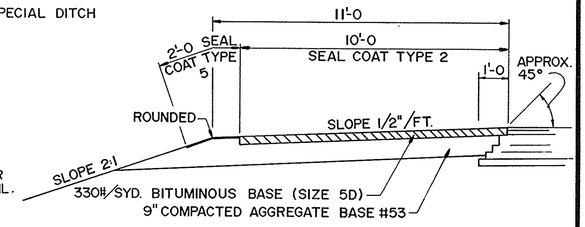
SCALE : 1" = 30'-0



SUPERELEVATION SECTION - 3°00', 3°30' CURVE RT.

STA. 586+50 TO STA. 588+43.9 (3°00') LINE "PR & F"
STA. 592+11.6 TO STA. 594+00 (3°30') LINE "PR & F"

SCALE : 1/4" = 1'-0



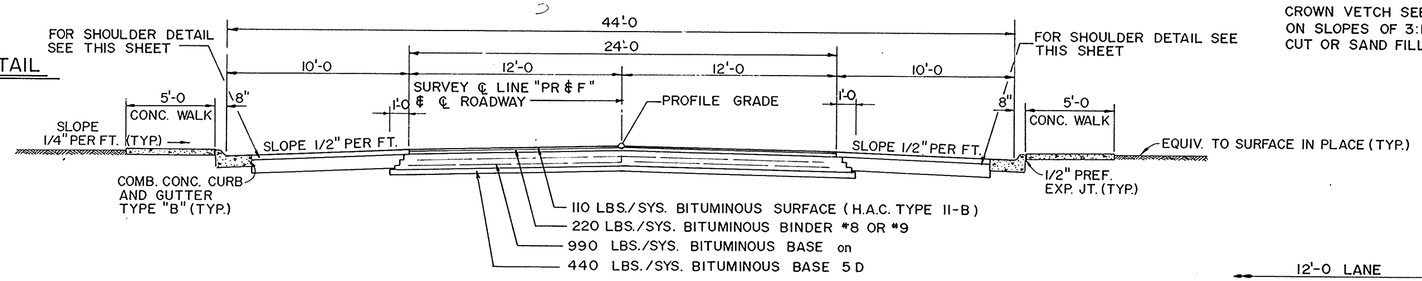
DETAIL OF SHOULDER

SCALE : 3/8" = 1'-0

NOTES :

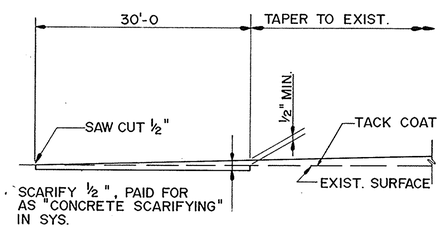
THE CONTRACTOR SHALL HAVE THE OPTION OF USING EITHER H.A.C. OR H.A.E. ON ALL BITUMINOUS ITEMS, EXCEPT AS NOTED.

CROWN VETCH SEEDING, APPLIED AT THE RATE OF 10 LBS./ACRE ON SLOPES OF 3:1 OR STEEPER OR IN AN AREA REQUIRING SAND CUT OR SAND FILLS OR AS DIRECTED BY THE ENGINEER.



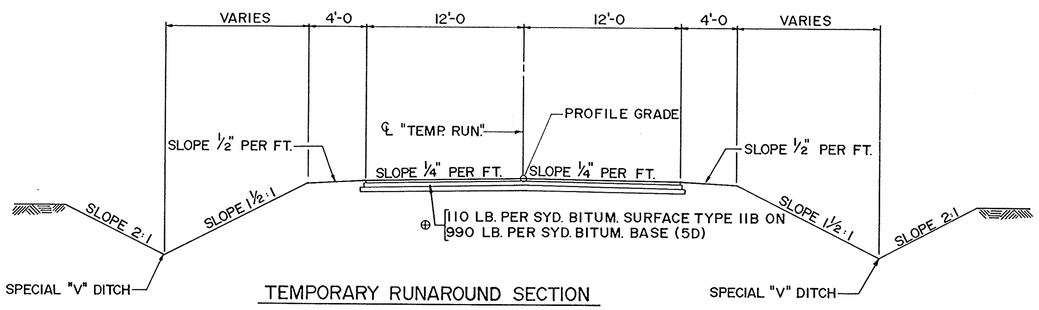
TYPICAL URBAN SECTION

SCALE : 1/4" = 1'-0



DETAIL 'A'

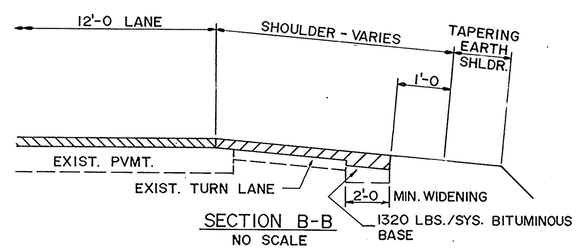
NO SCALE



TEMPORARY RUNAROUND SECTION

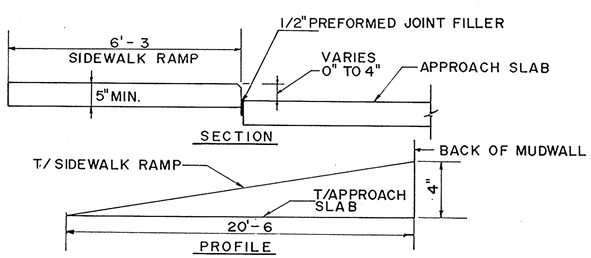
⊕ BITUM. SURFACE REQUIRED ONLY WHEN TEMP. RUNAROUND WILL BE IN PLACE OVER THE WINTER MONTHS.

STA. 10+26.00 = STA. 11+74.1
STA. 14+90.01 = STA. 16+44.72



SECTION B-B

NO SCALE



SIDEWALK RAMPS @ SOUTH BRIDGE APPROACH

NO SCALE

TYPICAL CROSS SECTIONS

INDIANA DEPARTMENT OF HIGHWAYS

SCALE: AS NOTED DATE:

SUBMITTED FOR APPROVAL: _____

DRAWING: OF SHEET: 3 OF 9

PROJECT: ST-082-5(1)

CONTRACT NO :

BRIDGE FILE : 52-70-6853

DESIGNED	C'K'D	
DRAWN	C'K'D	
TRACED	C'K'D	

W. WATER STREET

E. WATER STREET

S. MAIN ST.

US 52

DONALD E. & GLENNA DAWSON

RODEFELD CO. INC.

ORIGINAL TOWN OF RUSHVILLE

P.I. STA. 595+13.9

RICHARD D. MILLER

MONTY M. & BEVERLY W. HOWELL (ETUX)

END PROJECT NO. ST-082-5(1)
STA. 594+00, LINE "PR & F"

CITY OF RUSHVILLE

WILLIAM R. ROGERSON

+06 66'

~~RICHARD D. &~~ LILLIAN E. MILLER RES.A

LINE "T-2-F"

CORP. LINE

FLAT ROCK RIVER

TEMP. R/W FOR TEMPORARY RUNAROUND & CHANNEL CLEARING

CITY OF RUSHVILLE RES.A

6

5

JAMES A. WILSON JR. & MARTHA J. LINES

~~TEMP. R/W FOR CHANNEL CLEARING~~

+00 95

+50 150'

+82 90'

+ PL 50 150'

+00 150'

LINE "T-1-F"

TEMP. R/W

+75 150'

+00 (93) PL

+50 150'

+00 (96) PL

CITY LIMITS

SEC. 6, T. 13 N. R. 10 E.
RUSHVILLE TWP.
RUSH CO.

SEC. 5, T. 13 N. R. 10 E.
RUSHVILLE TWP.
RUSH CO.

+00 PL

~~MATHEW & IMOGENE L. EASLEY~~

GEORGE & MARY JANE TRUSTER RES.A

US 52

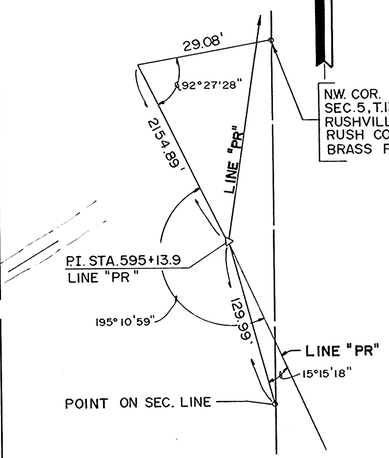
LINE "PR & F"

FREDERICK L. ASHLEY

BEGIN PROJECT NO. ST-082-5(1)
STA. 586+50, LINE "PR & F"

P.I. STA. 583+62.0

STATE ROAD



SECTION LINE TIE-IN

NOT TO SCALE

PLAT NO. 1

INDIANA DEPARTMENT OF HIGHWAYS

RUSH COUNTY

SCALE: 1" = 100' DATE:

SUBMITTED FOR APPROVAL: _____

DRAWING: OF SHEET: 4 OF 9

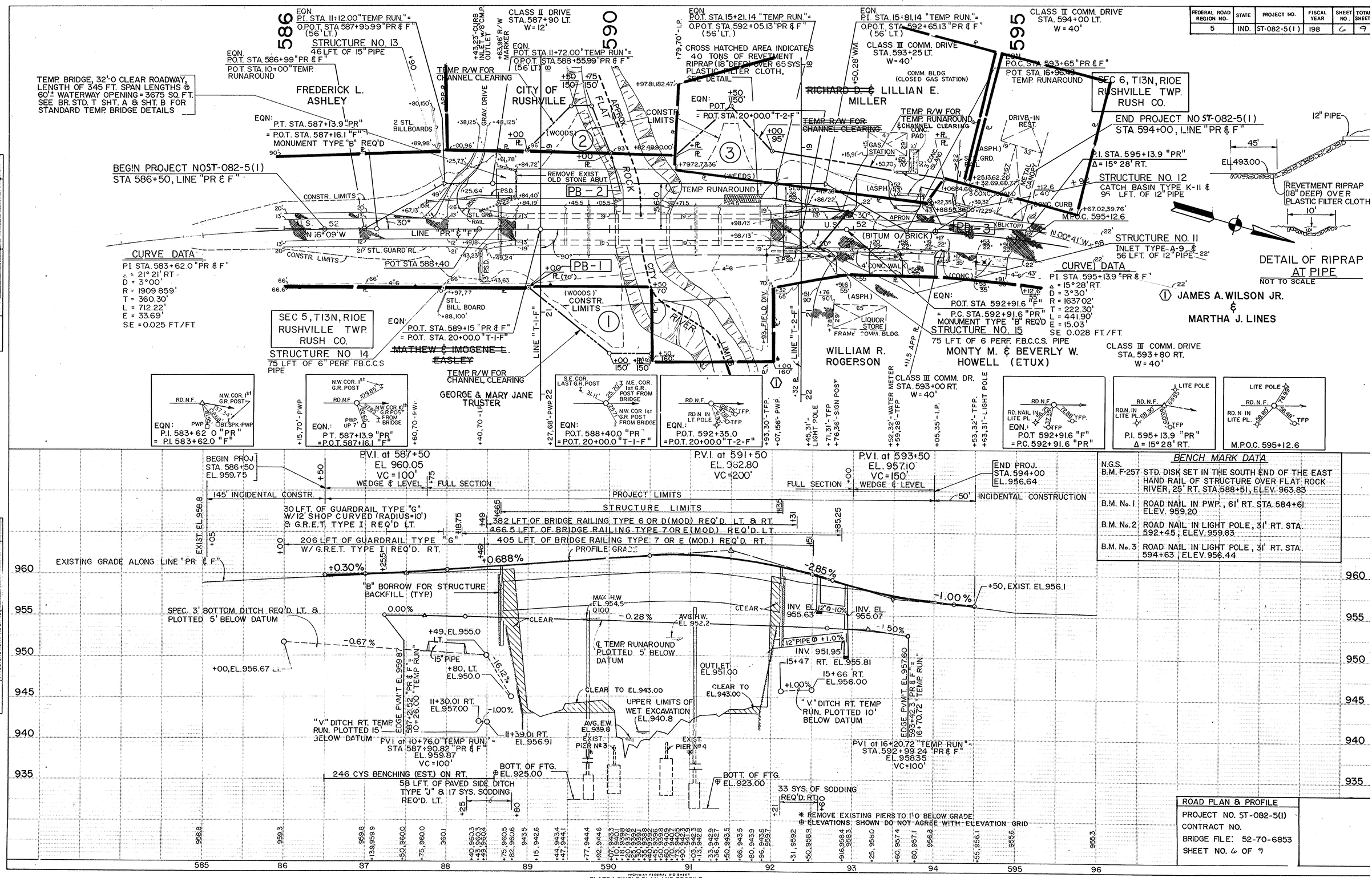
PROJECT: ST-082-5(1)

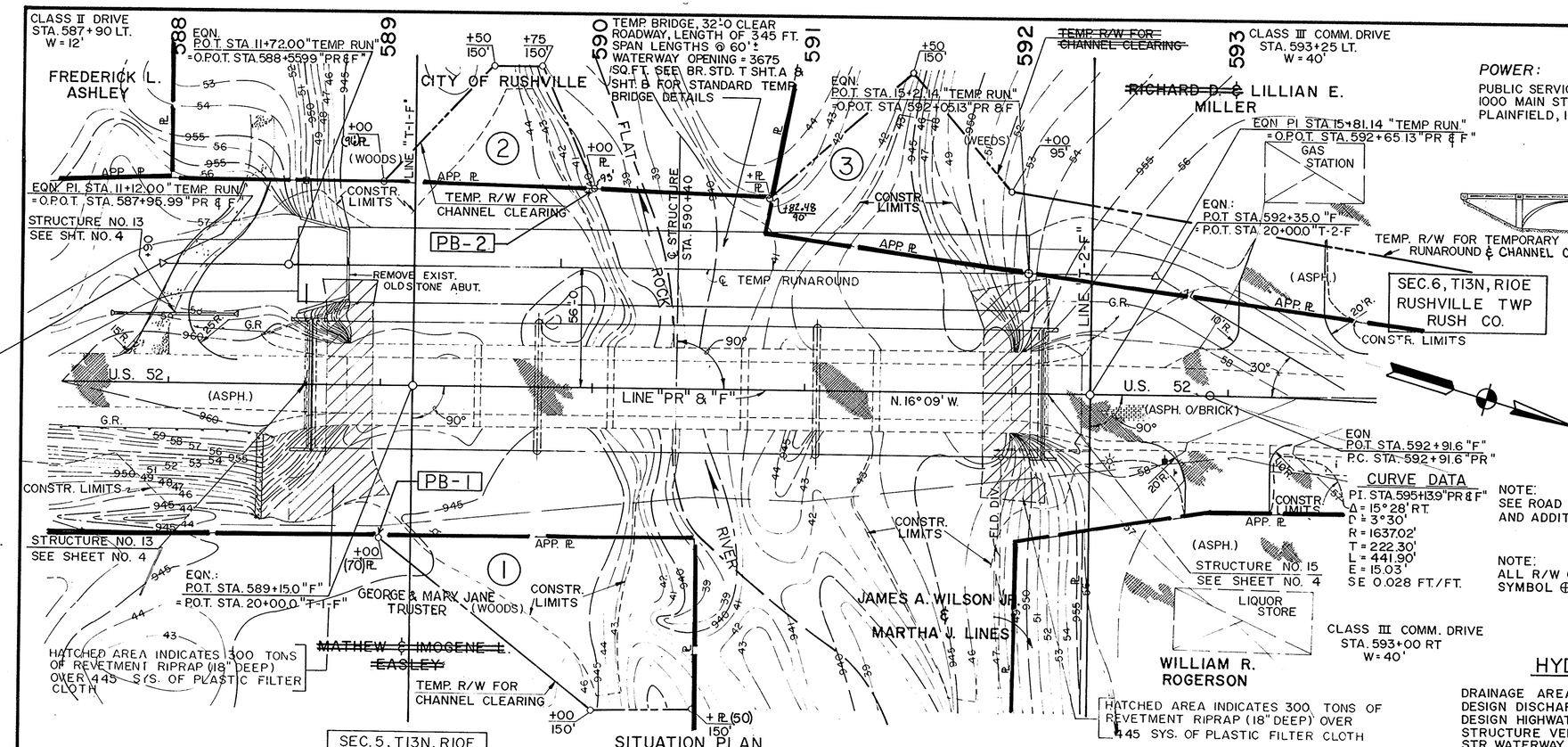
CONTRACT NO.

BRIDGE FILE: 52-70-6853

DESIGNED _____ C'K'D _____
DRAWN Jim Boyden C'K'D _____
TRACED _____ C'K'D _____

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
5	IND.	ST-082-5(1)	198	6	9





SITUATION PLAN

SCALE: 1" = 30'
CONTOUR INTERVAL - 1 FOOT

PUBLIC UTILITIES

POWER:
PUBLIC SERVICE CO. OF INDIANA
1000 MAIN ST.
PLAINFIELD, IND.

TELEPHONE:
GTE
321 N. MAIN ST.
RUSHVILLE, IND.

GAS:
INDIANA GAS
1630 N. MERIDIAN ST.
INDIANAPOLIS, IND.

PRESENT STRUCTURE

SCALE: 1" = 40'

THE PRESENT STRUCTURE WAS BUILT IN 1941 AS 52-E-3010 AS A R.C. ARCH, WITH 5 SPANS AT 60'-0. RISE = 11'-0" EXCEPT AT THE NORTH AND SOUTH ABUTMENTS WHICH ARE ± 5'-0" LOWER THAN THE SPRING LINES AT THE PIERS.
CLEAR ROADWAY WIDTH IS 28'-0, WITH A WATERWAY OPENING BENEATH ARCH RINGS OF 3775 Sq. FT.. A WATER SHED OF 168 Sq. MILES IS SERVED. LOW STRUCTURE ELEV. = 957.6 AND THE ROAD OVERFLOW AREA = 0 Sq. FT.

NOTE:
SEE ROAD PLAN & PROFILE SHEET, NO. 4 FOR REFERENCES, NOTES, BENCHMARKS AND ADDITIONAL DETAILS.

NOTE:
ALL R/W ON THIS SHEET TAKEN FROM LINE "PR" & "F" UNLESS NOTED BY THE SYMBOL ⊕, WHICH INDICATES A REFERENCE TO LINE "T-1-F" OR "T-2-F".

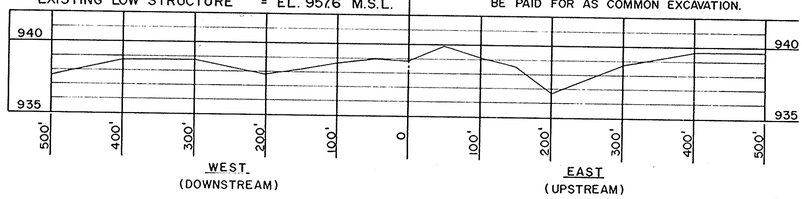
HYDRAULIC DATA

DRAINAGE AREA	=	168	SQ. MILES
DESIGN DISCHARGE Q100	=	17,000	C.F.S.
DESIGN HIGHWATER Q100	=	EL. 954.5	M.S.L.
STRUCTURE VELOCITY Q100	=	4.5	F.P.S.
STR. WATERWAY AREA REQUIRED BELOW EL. 954.5	=	3800	SQ.FT.
STR. WATERWAY AREA PROVIDED BELOW EL. 954.5	=	3802	SQ.FT.
BACKWATER @ Q 100	=	0.2	FT.
MINIMUM LOW STRUCTURE	=	EL. 957.0	M.S.L.
EXISTING WATERWAY AREA PROVIDED BELOW EL. 954.5	=	3450	SQ.FT.
EXISTING LOW STRUCTURE	=	EL. 957.6	M.S.L.

EARTHWORK

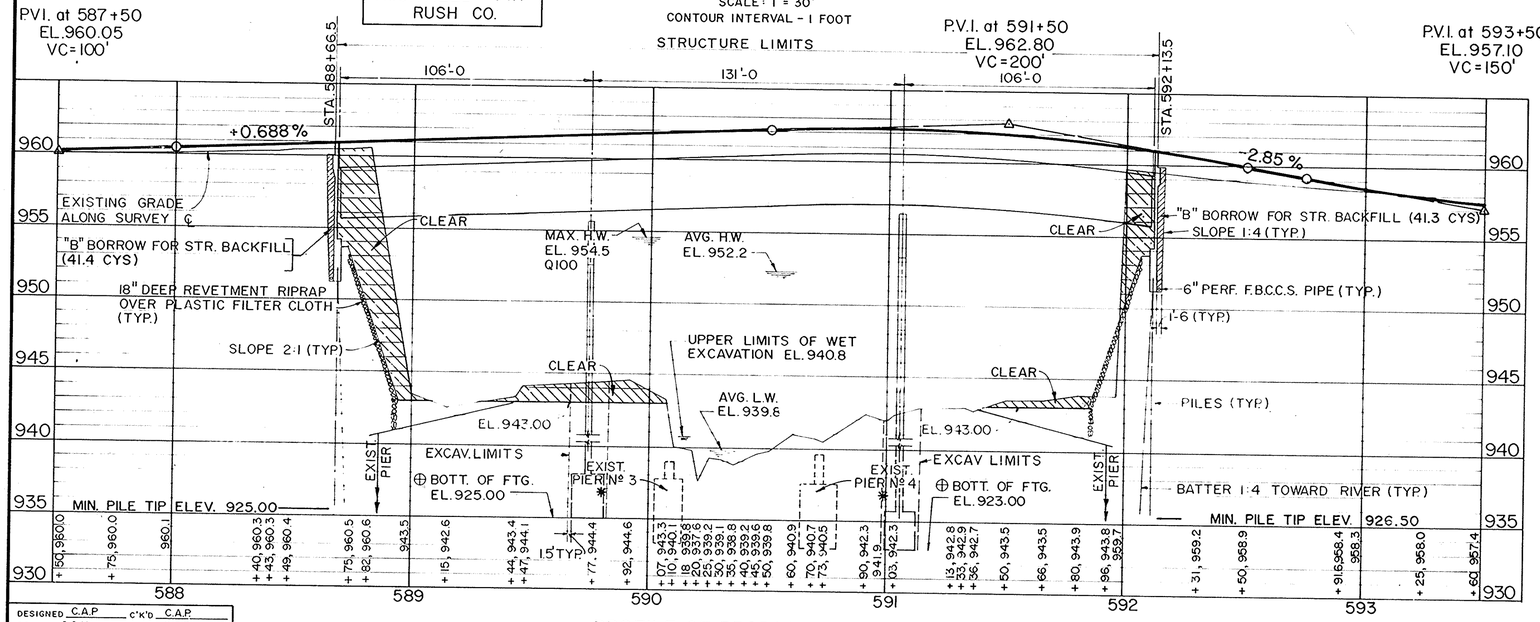
FILL + 20%	265 CYS.
COMMON EXCAVATION	-814 CYS.
WATERWAY EXCAVATION (70% USABLE)	-528 CYS.
SURPLUS FNDN. EXCAV.	-1081 CYS.
WASTE	2,163 CYS.
TOTAL WATERWAY EXCAV.	754 CYS.
✱✱BENCHING (ESTIMATED)	246 CYS.

✱✱NO DIRECT PAYMENT. BENCHING WILL NOT BE PAID FOR AS COMMON EXCAVATION.



PROFILE OF FLAT ROCK RIVER

SCALE: HORIZ. - 1" = 100', VERT. - 1" = 5'



PROFILE OF PROPOSED ℄ ROADWAY

SCALE: HORIZ - 1" = 30', VERT. - 1" = 5'

✱ REMOVE EXISTING PIERS TO 1'-0 BELOW GRADE
⊕ ELEVATIONS SHOWN DO NOT AGREE WITH ELEVATION GRID

LAYOUT

CONTINUOUS COMPOSITE STEEL PLATE GIRDER BRIDGE
3 SPANS 106'-0, 131'-0, 106'-0 SQUARE, 44'-0 CLEAR ROADWAY
OVER FLAT ROCK RIVER ON U.S 52

INDIANA DEPARTMENT OF HIGHWAYS

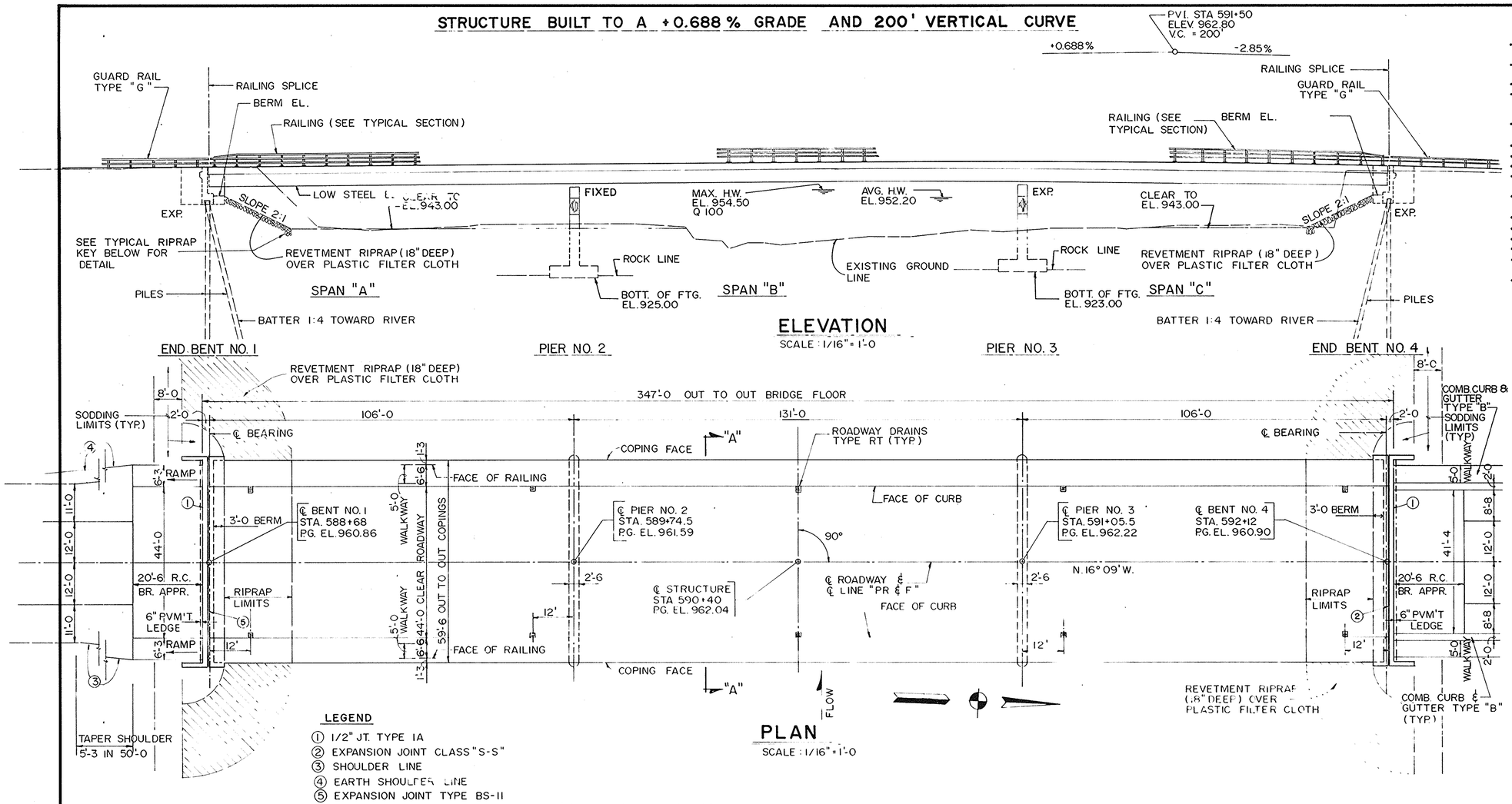
RUSH COUNTY

SCALE: AS NOTED DATE:

SUBMITTED FOR APPROVAL: _____

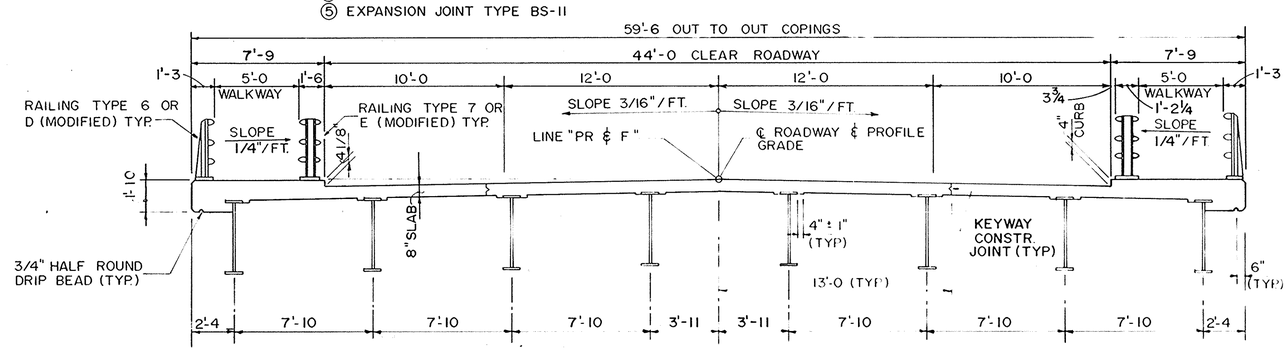
DRAWING: S-1 OF S-11 SHEET: 7 OF 9
PROJECT: ST-082-5 (1)
CONTRACT NO.:
BRIDGE FILE: 52-70-6853

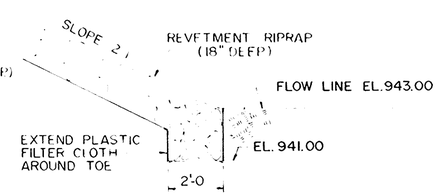
DESIGNED	C.A.P.	C'K'D	C.A.P.
DRAWN	C.C.H.	C'K'D	C.A.P.
TRACED		C'K'D	



LEGEND

1. 1/2" JT. TYPE IA
2. EXPANSION JOINT CLASS "S-S"
3. SHOULDER LINE
4. EARTH SHOULDER LINE
5. EXPANSION JOINT TYPE BS-II





DESIGNED C.A.P. C'K'D
DRAWN Jim Boyden C'K'D
TRACED C'K'D

GENERAL NOTES

- DEPTH OF FOOTINGS TO BE EXTENDED IF FOUND NECESSARY. SEE ARTICLE 206.11 (c) OF SPECIFICATIONS.
- PILES SHALL HAVE MINIMUN BEARING VALUE SHOWN ON DETAIL DRAWINGS. DETERMINE PILE LENGTHS BY ARTICLE 701.02 (a) OF SPECIFICATIONS
- PILES SHALL BE DRIVEN TO APPROXIMATE REFUSAL.
- TOLERANCE IN POSITION OF PILE HEAD MAXIMUN 2". PILES SHALL BE DRIVEN TO ELEVATION SHOWN ON PLANS OR BELOW IF NECESARY TO OBTAIN REQUIRED BEARINGS.
- REINFORCING STEEL COVERING SHALL BE 2 1/2" IN TOP AND 1" IN BOTTOM OF FLOOR SLAB, AND 2" IN ALL OTHER PARTS, UNLESS NOTED
- CONCRETE IN SUPERSTRUCTURE TO BE CLASS "C".
- CONCRETE IN FOOTINGS AND PIER STEMS TO BE CLASS "B".
- CONCRETE IN END BENTS TO BE CLASS "A".
- CONTINUOS CONCRETE POURS SHALL BE REQUIRED BETWEEN CONSTRUCTION JOINTS AS SHOWN ON DETAIL PLANS
- WATERPROOF BACKS OF MUDWALLS AND WINGWALLS IN ACCORDANCE WITH ARTICLE 702.22 OF THE SPECIFICATIONS.
- CHAMFER EXPOSED EDGES 1" UNLESS NOTED.
- FOOTINGS SHALL EXTEND MINIMUN OF 6" INTO SOLID ROCK.
- REINFORCING STEEL NOT TO BE ORDERED UNTIL ROCK IS UNCOVERED.
- CONSTRUCT RIPRAP AT LOCATIONS SHOWN ON LAYOUT SHEET.
- 10 STANDARD TYPE RT ROADWAY DRAINS TO BE PLACED AS SHOWN ON THIS DRAWING.
- THE TOP OF THE DECK, FACE OF DECK COPING, 6" OF THE UNDERSID OF THE BRIDGE FLOOR SLAB FROM COPING TO DRIP BEAD, PIERS CAP END BENT CAPS, INSIDE FACE MUDWALL, TOP OF MUDWALL AND TOP C WINGS ARE TO BE SEALED. ESTIMATED QUANTITY = SFT. SEE SPECIAL PROVISIONS.

DESIGN DATA

DESIGNED FOR HS-20-44 LOADING IN ACCORDANCE WITH THE 197 AASHTO SPECIFICATIONS AND 1978 THROUGH 1983 INTERIMS.
DEAD LOAD INCLUDES 35 P.S.F. FOR FUTURE WEARING SURFACE.
THE SLAB IS DESIGNED WITH A STRUCTURAL DEPTH OF 6 1/2 INCHE

TYPICAL CROSS SECTION

SEE SHEET NO. 3

STANDARD DRAWINGS		
BR. STD.	RD. STD.	DESCRIPTION
BR 1		ALUMINUM BRIDGE RAILING
BR 2		ALUMINUM BRIDGE RAILING DETAILS
BR 3		STEEL BRIDGE RAILING
BR 4		STEEL BRIDGE RAILING DETAILS
C 1		REINFORCING BAR NOTES, PILE DETAIL
C 3		CONSTRUCTION JOINTS
D		ROADWAY DRAIN-TYPE RT
S 1		"B" BORROW FOR STRUCTURE BACKFILL
SH 1		SHOE DETAILS
TA		STANDARD TEMPORARY BRIDGE
TB		STANDARD TEMPORARY BRIDGE
	MA	REINFORCED CONCRETE BRIDGE APPROACH
	MA 1	CONCRETE SIDEWALK
	MB	DITCHING DETAILS
	MC 1	CASTINGS
	MD	INLETS
	ME	COMBINED CURB AND GUTTER
	ME 2	PIPE END SECTIONS
	MH	DRIVE DETAILS
	MH 1	DRIVE DETAILS
	MI 1	TEMPORARY RUNAROUND DETAILS
	MP	PIPE
	MT 3	TRAFFIC SIGN DETAILS
	GR 4	GUARD RAIL TYPE "G"
	GR 5	ALUMINUM GUARD RAIL DETAILS
	GR 6	STEEL TUBE GUARD RAIL DETAILS
	GR 10	GUARD RAIL BURIED ENDS
	SHT. 1 DET.	METHOD OF MARKING RUNAROUND
	SHT. 2 DET.	STANDARD DETOUR SIGNS
	SHT. 2A DET.	STANDARD DETOUR SIGNS
	SHT. 3 DET.	STANDARD DETOUR SIGNS
	SHT. 4 DET.	STANDARD DETOUR SIGNS
	SHT. 5 DET.	STANDARD DETOUR SIGNS

GENERAL PLAN

CONTINUOUS COMPOSITE STEEL PLATE GIRDER BRIDGE
3 SPANS 106'-0, 131'-0, 106'-0 SQUARE, 44'-0 CLEAR ROADWAY
OVER FLAT ROCK RIVER ON U.S. 52

INDIANA DEPARTMENT OF HIGHWAYS

RUSH COUNTY

SCALE: AS NOTED DATE:

SUBMITTED FOR APPROVAL: _____

DRAWING: S-2 OF SHEET 8 OF 9

PROJECT: ST-082-5(1)

CONTRACT NO.:

BRIDGE FILE: 52-70-6853

BRIDGE FILE

STRUCTURE QUANTITIES

ITEM	CONCRETE CLASS C SUPERSTR CU. YDS.	CONCRETE CLASS A SUBSTR CU. YDS.	CONCRETE CLASS B ABOVE FTG. CU. YDS.	CONCRETE CLASS B IN FTG. CU. YDS.	CONCRETE RAILING CLASS C CU. YDS.	CONCRETE RAILING CLASS C LIN. FT.	REINF. STEEL TOTAL LBS.	STRUCT. STEEL ✻✻✻ LBS.	EPOXY COATED REINF. STEEL LBS.	ANCHOR PLATES MK-AP EACH	PILES UNTREATED TIMBER NO.	PILES UNTREATED TIMBER LIN. FT.	PILES TREATED TIMBER NO.	PILES TREATED TIMBER LIN. FT.	PILES STEEL ENCASED CONC. NO.	PILES STEEL ENCASED CONC. LIN. FT.	PILES STEEL H BEARING NO.	PILES STEEL H BEARING LIN. FT.	CAST IRON DRAIN PIPE LBS.	CAST IRON, GRATES, BASINS, & FITTINGS LBS.	RAILING TYPE OR LIN. FT.	EXP. JOINT TYPE LIN. FT.	EXP. JOINT CLASS LIN. FT.	CONC. STR. MEMBERS BOX BEAMS TYPE SQ. FT.	CONC. STR. MEMBERS I BEAM TYPE LIN. FT.	BRIDGE DECK SURFACE SQ. YDS	SURFACE SEAL SQ. FT.	FINISHING AND CURING SQ. YD.	BLASTING AND CLEANING SQ. YD.
BENT NO. 1																													
PIER NO. 2																													
PIER NO. 3																													
BENT NO. 4																													
SUPERSTRUCTURE																													
Reinf. Steel for Approach Structures																													
Reinf. Steel for R.C. Bridge Approaches																													
Reinf. Steel for Lip Gutter, Pvmt., Tapers, etc.																													
TOTALS																											◊		

◊ ESTIMATED QUANTITY

BRIDGE FILE

APPROACH STRUCTURES

STRUCT. NO.	LOCATION	DESCRIPTION SIZE	DESCRIPTION KIND	DESCRIPTION LENGTH LIN. FT.	CONCR. CL. A IN STRS. CU. YDS.	REINF. STEEL LBS.	PIPE END SEC. EACH	REMARKS
11	STA. 594+00 RT.	12"	GROUP "L"	52				INLET TYPE A-9, CONN. TO STR. NO. 12
12	STA. 594+31 LT.	12"	GROUP "L"	240			1	CATCH BASIN TYPE K-11, OUTLET TO RIVER
13	STA. 587+90 LT.	15"	GROUP "D"	56			2	
14	STA. 588+65.75 ⊕ ℄	6"	PERF. F.B.C.C.S. PIPE(0.052")	50				OUTLET EAST THROUGH CONE AND ONE DELINATOR POST
15	STA. 592+14.25 ⊕ ℄	6"	PERF. F.B.C.C.S. PIPE(0.052")	50				OUTLET EAST THROUGH CONE AND ONE DELINATOR POST
				TOTALS			3	Total of Reinforcing Steel Carried to "Structure Quantities"

PAVED SIDE DITCH & SODDING SUMMARY

LT. OR RT.	STATION TO STATION	PAVED SIDE DITCH (LIN. FT.) TYPE	PAY LENGTH	NO. OF LUGS	PAY LENGTH	CUT OFF WALLS	PAY LENGTH	TOTAL PAY LENGTH	SODDING (SQ. YD.) FOR PSD	FOR DITCHES	SHOULDERS	OTHER	TOTAL SOD
LT.	588+24 TO 588+80	J	58	1	8	2	16	82	17				17
* RT.	592+21 TO 592+60									33			33

* TEMP. RUN.

APPROACH TABLE

LOCATION LT/RT	LOCATION STATION	DESCRIPTION	WIDTH FT.	RADII FT.	GRADE %	LENGTH FT.	DIST. BEYOND R/W FT.	EXCAVATION(CYS) CUT	EXCAVATION(CYS) FILL	BITUM. SURFACE #/SQ.YD.	BITUM. SURFACE TONS	CONCRETE		BITUM. BASE #/SQ.YD.	BITUM. BASE TONS	COMP. AGG. BASE Depth (in)	COMP. AGG. BASE TONS
LT.	587+90	CLASS II DR.	12	15-25						110				220		3"	
RT.	593+00	CLASS III COMM.	40	10-20								6"					
LT.	593+25	CLASS III COMM.	40	10-20								6"					
RT.	593+80	CLASS III COMM.	40	10-20								6"					
LT.	594+00	CLASS III COMM.	40	10-20								6"					

NOTES:
Weight of Spirals includes weight of 1½ extra turns top and bottom.
Spacers and 1½ turns at laps included in cost of Spiral.
✻✻✻ The weight of structural steel is approximate only, and it shall be the Contractor's responsibility to determine the weight on which he bases his bid.
For Test Bar Samples See Bridge Standard C1.

SUMMARIZED _____ C'K'D _____
TRACED JIM BOYDEN C'K'D _____

REVISIONS

DATE	ITEM

BRIDGE SUMMARY
INDIANA DEPARTMENT OF HIGHWAYS

DATE

SUBMITTED FOR APPROVAL _____

SHEET 9 OF 9

PROJECT: ST-082-5(1)
CONTRACT NO:
BRIDGE FILE: 52-70-6853

TP103