

R-26740

PROJECT	DESIGNATION
ST-212-4(008)	8351130
CONTRACT	985113A, 985113W
R-26740	

INDIANA
DEPARTMENT OF
TRANSPORTATION

ROAD PLANS
INTERSECTION IMPROVEMENT

U.S. 6 AT RP 036+051

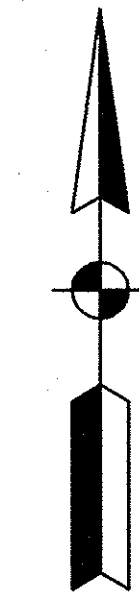
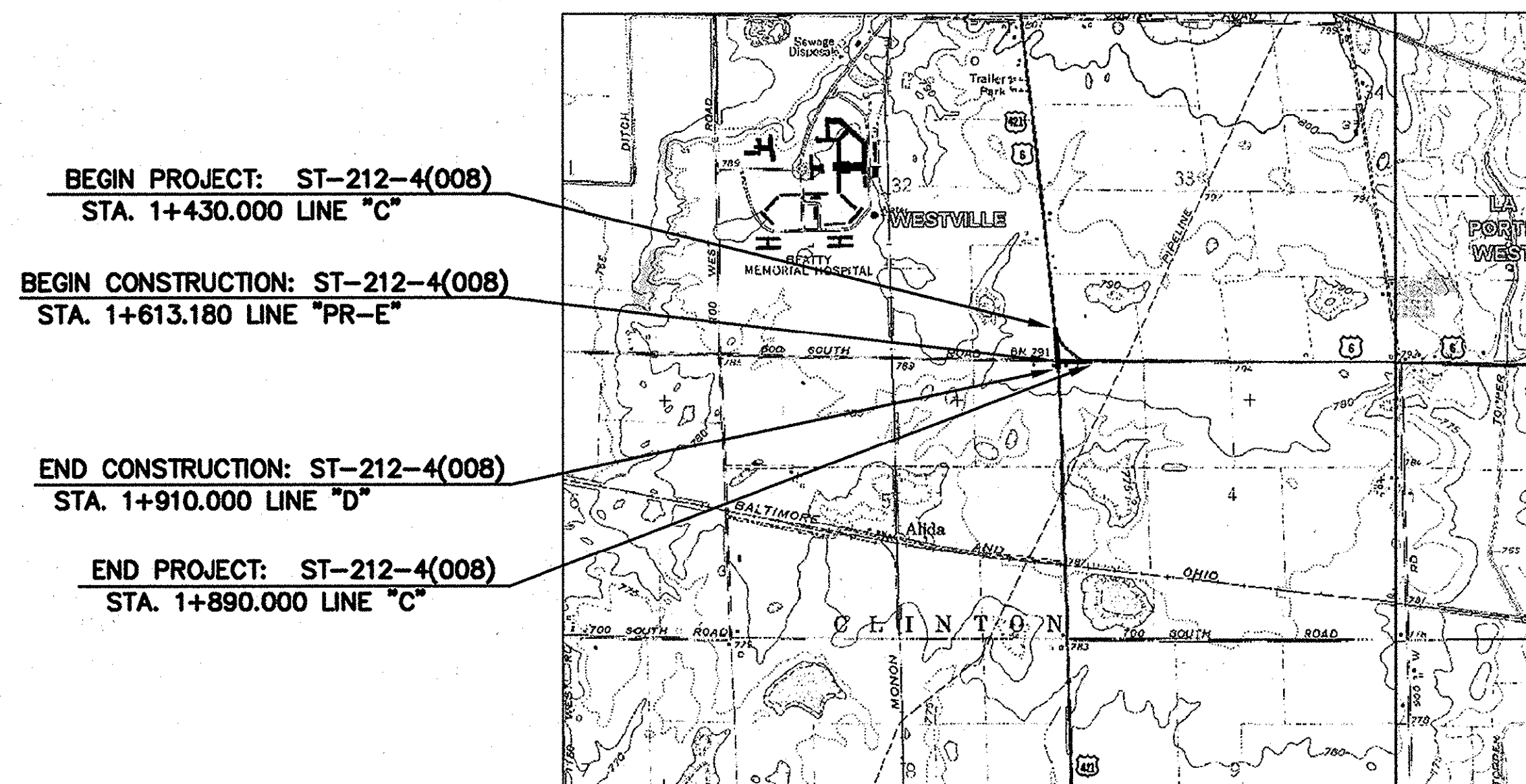
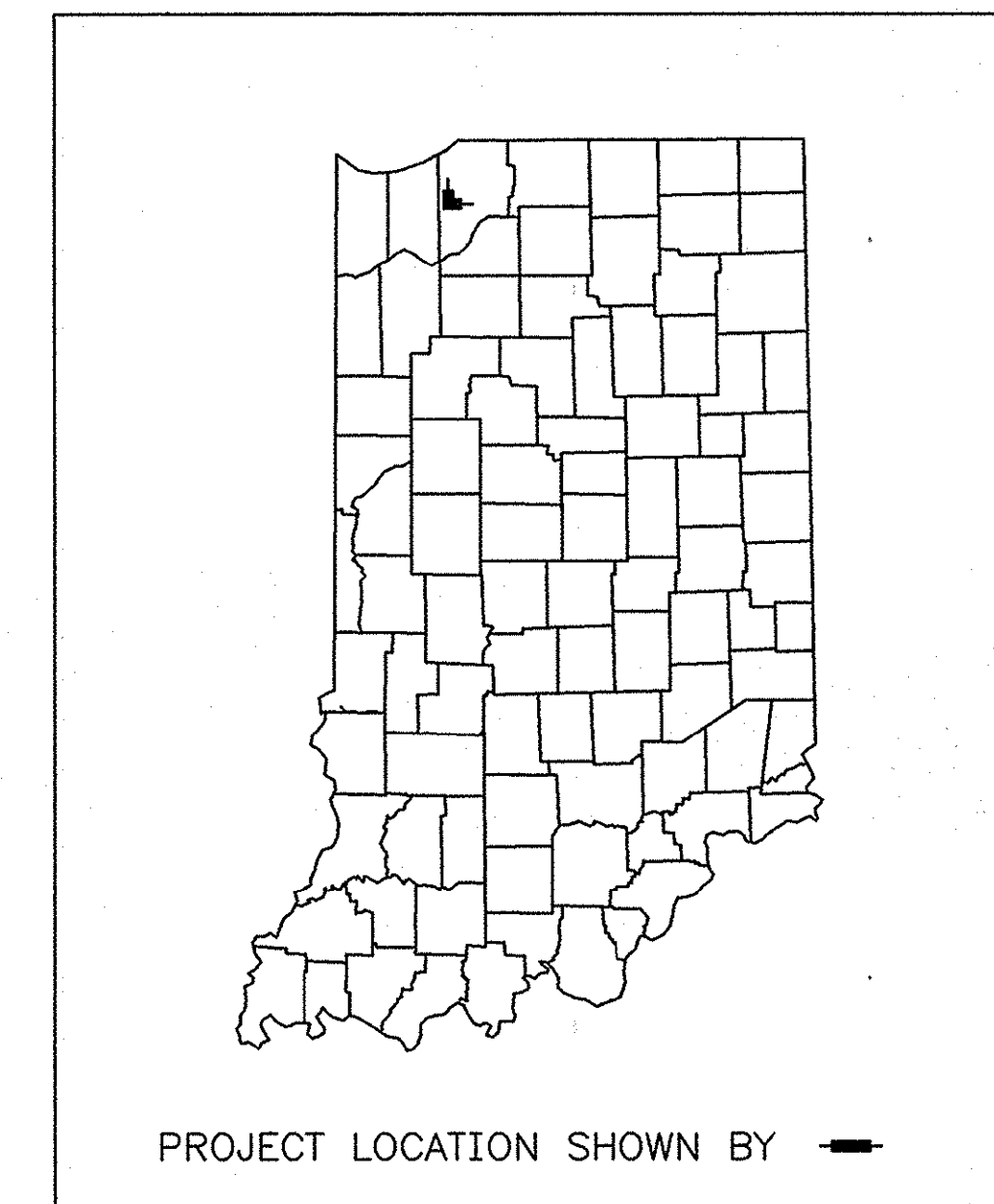
PROJECT NO. **ST-212-4(F)** P.E.
ST-212-4(F) R/W
ST-212-4(008) CONST.

PROJECT LENGTH: 0.517 km

ON U.S. 6 BEGINNING APPROXIMATELY 300 m NORTH OF THE JUNCTION OF U.S. 421 AND CO. RD. 600S TO APPROXIMATELY 219 m EAST OF SAID JUNCTION, IN SECTIONS 4 & 5, T.35N., R.4W., CLINTON TOWNSHIP AND SECTIONS 32 AND 33, T.36N., R.4., NEW DURHAM TOWNSHIP, LA PORTE CO.

PROJECT LOCATION

TRAFFIC DATA		U.S. 421	U.S. 6
A.A.D.T. (1998)		3710 V.P.D.	3830 V.P.D.
A.A.D.T. (2022)		5570 V.P.D.	5870 V.P.D.
D.H.V.		475 V.P.H.	587 V.P.H.
DIRECTIONAL DISTRIBUTION		67 %	93 %
TRUCKS		14 % D.H.V.	13 % D.H.V.
		19% A.A.D.T.	17 % A.A.D.T.
DESIGN DATA			
DESIGN SPEED		90 K.P.H.	70 K.P.H.
PROJECT DESIGN CRITERIA		3R-(NON FREEWAY)	3R-(NON FREEWAY)
FUNCTIONAL CLASSIFICATION		RURAL PRINCIPAL ARTERIAL	RURAL MINOR ARTERIAL
RURAL/URBAN		RURAL	RURAL
TERRAIN		LEVEL	LEVEL
ACCESS CONTROL		NONE	NONE



LEGEND

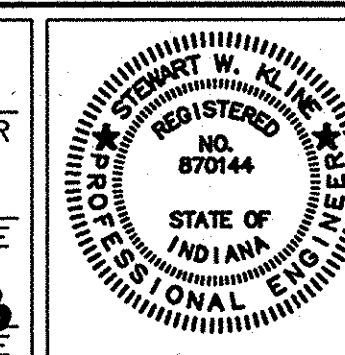
ROADWAY LENGTH (LINE "C")	0.46 km
ROADWAY LENGTH (LINE "D")	0.34 km
ROADWAY LENGTH (LINE "E")	0.21 km
MAXIMUM GRADE:	2.20 %

LOCATION MAP
1:24,000

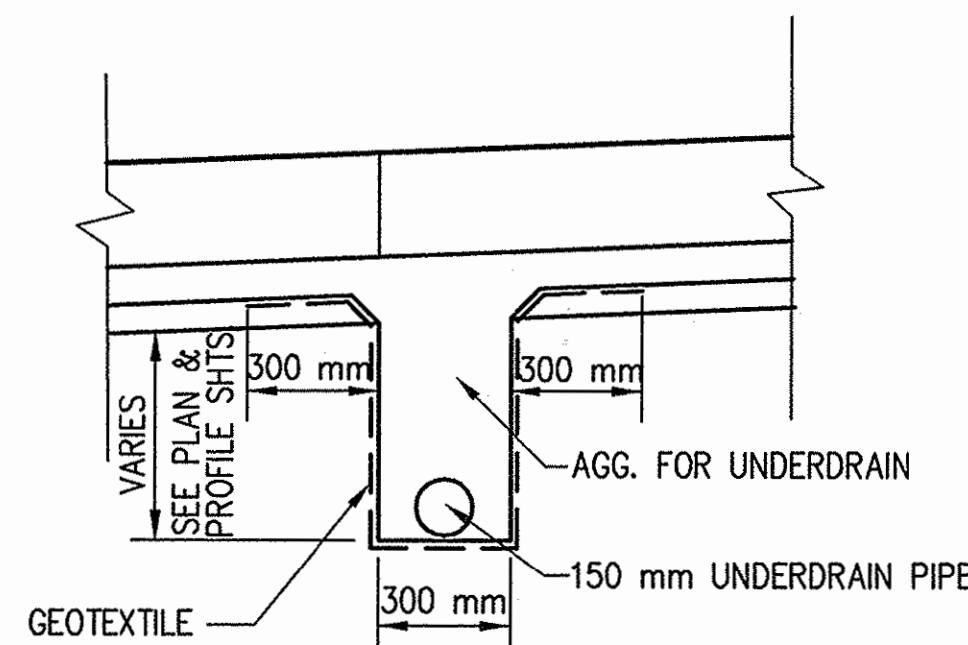
[INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 1999
TO BE USED WITH THESE PLANS]



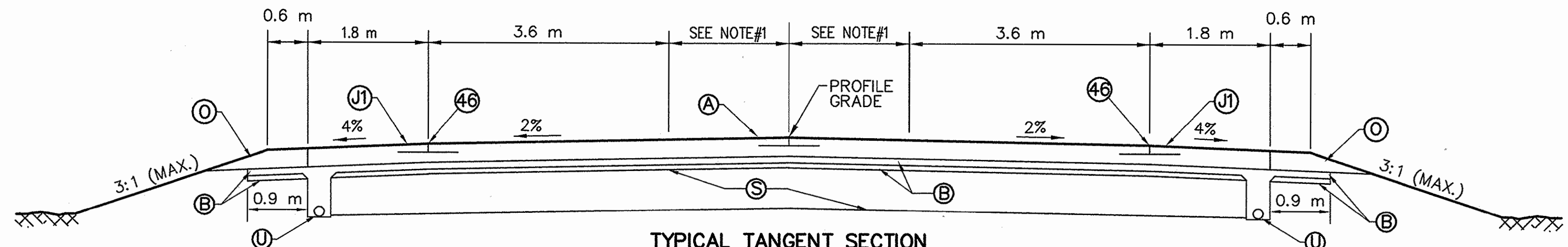
PLANS PREPARED BY: **H. STEWART KLINE & ASSOC.** (765) 743-0295
PHONE NUMBER
CERTIFIED BY: *Stewart W. Kline* 2/10/03
DATE
APPROVED: *Michael Kline* 4/2/2003
DATE
FOR LETTING: *Michael Kline* 4/2/2003
DATE
CHIEF, DIVISION OF DESIGN



DESIGNATION		8351130	
SURVEY BOOK		SHEETS	
16588	1	of	31
CONTRACT		PROJECT	
R-26740	ST-212-4(008)		

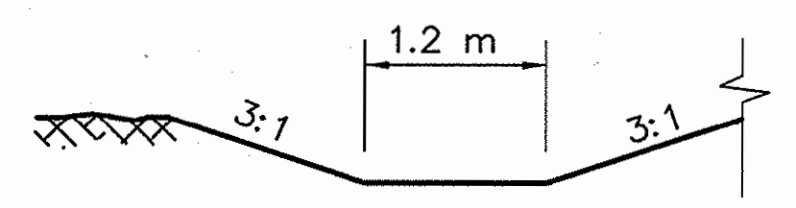


UNDERDRAIN DETAIL
SCALE: 1:20

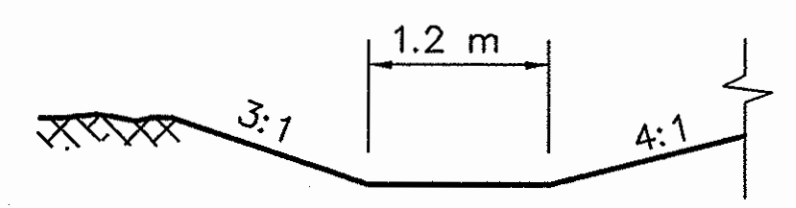


TYPICAL TANGENT SECTION
U.S. 421 STA. 1+430 TO 1+538.661 LINE "C"
SCALE: 1:50

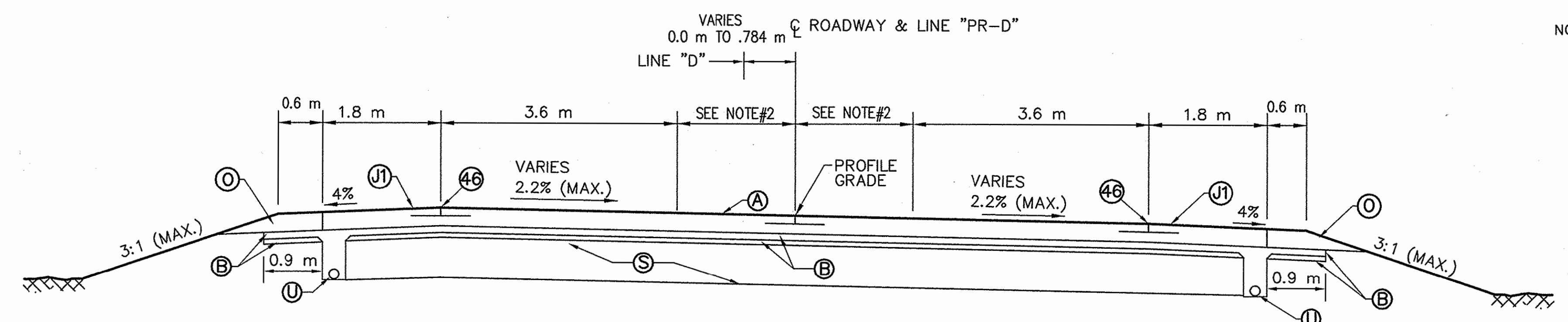
NOTE#1 VARIES 0.0 m TO 1.8 m FROM STA. 1+430 TO 1+512 LINE "C"
1.8 m FROM STA. 1+512 TO 1+574.836 LINE "C"
1.8 m FROM STA. 1+574.836 TO 1+651.211 LINE "D"
NOTE#2 1.8 m FROM STA. 1+651.211 TO 1+838 LINE "D"
VARIES 1.8 m TO 0.0 m FROM STA. 1+838 TO 1+910 LINE "D"



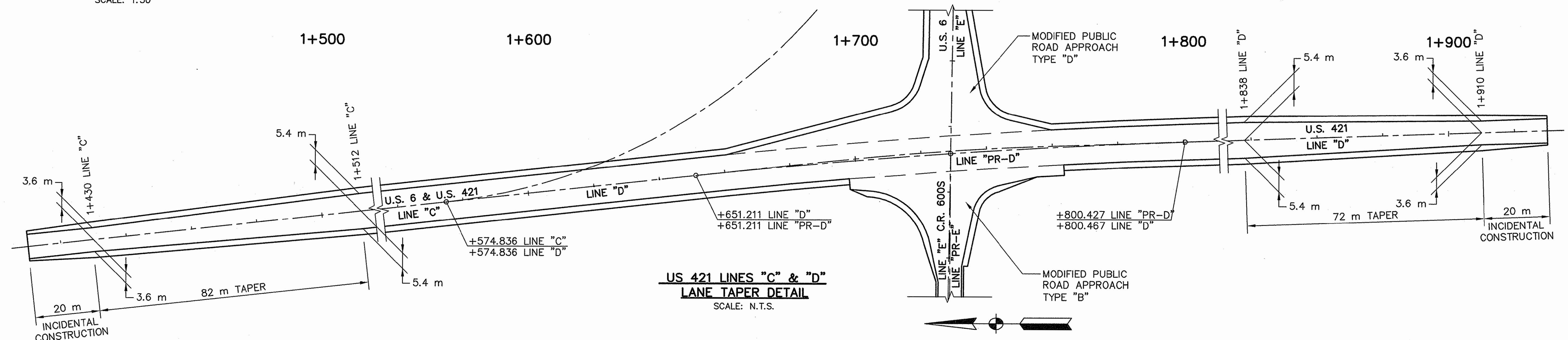
DITCH SECTION
STA. 1+840 LINE TO STA. 1+900 LINE "D"
SCALE: 1:50



DITCH SECTION
STA. 1+620 LINE TO STA. 1+700 LINE "D"
SCALE: 1:50

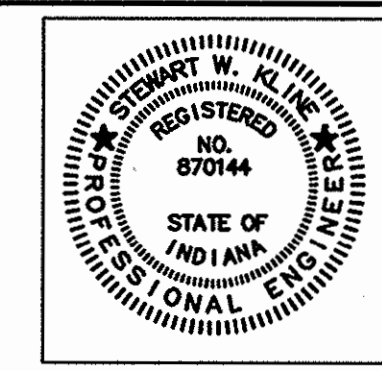


TYPICAL SUPERELEVATED SECTION
U.S. 421 STA. 1+538.661 LINE "C" TO 1+910 LINE "D"
SCALE: 1:50



US 421 LINES "C" & "D"
LANE TAPER DETAIL
SCALE: N.T.S.

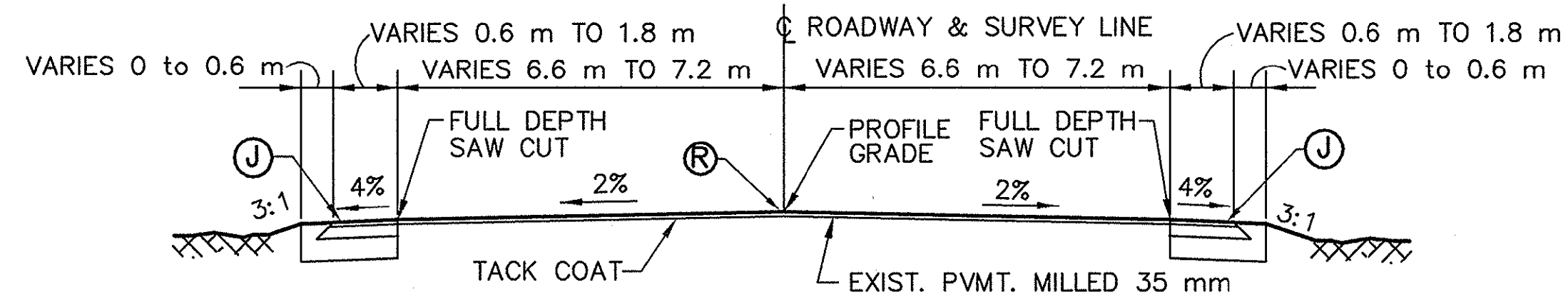
- (A) 275 mm PLAIN CEMENT CONCRETE PAVEMENT W/ JOINTS @ 5.5 m
- (B) 175 mm SUBBASE FOR PLAIN CEMENT CONCRETE PAVEMENT
100 mm COURSE AGGR. FOR BASE #8 ON
75 mm COMPACTED AGGR. FOR BASE "O" SIZE No. 53
- (R) 35.0 mm SURFACE MILLING AND
90 kg/m² HMA, TYPE B, SURFACE, (VARIABLE), 9.5 mm
- (J) 90 kg/m² HMA, TYPE B SURFACE, 9.5 mm ON 270 kg/m²
HMA, TYPE A, BASE, 25.0 mm ON 200 mm COMPACTED
AGGREGATE, No 53, BASE
- (O) 275 mm COMPACTED AGGREGATE No. 53, BASE
- (JI) 275 mm TIED PCC SHOULDER
- (S) SUBGRADE TREATMENT TYPE A
- (U) 150 mm UNDERDRAIN
- (46) 100 mm SOLID WHITE EPOXY LINE



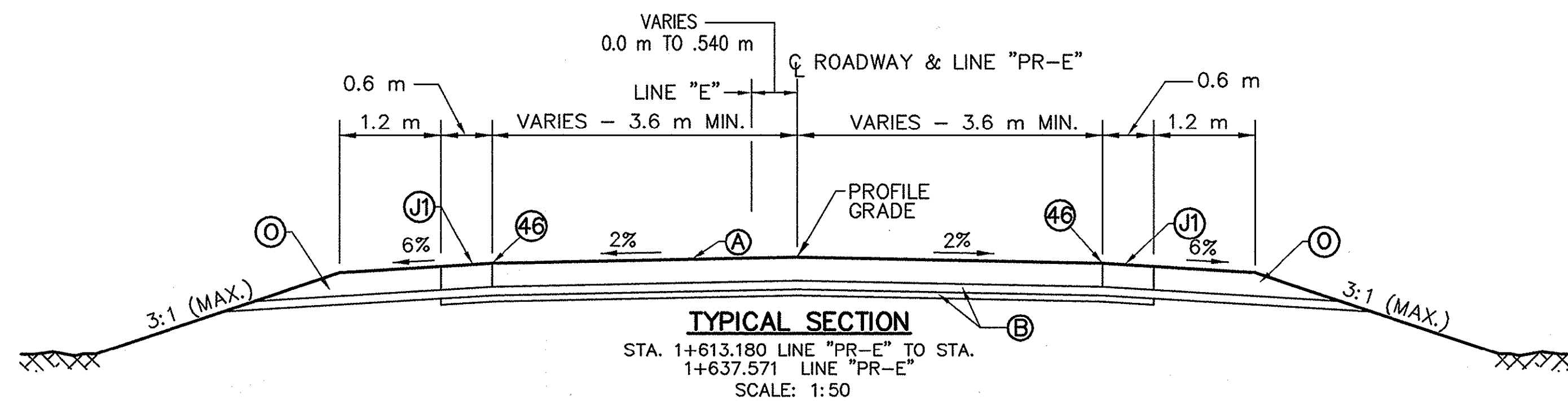
RECOMMENDED FOR APPROVAL: *Stewart W. Klein* 2/10/03
DESIGN ENGINEER DATE
DESIGNED: GJR DRAWN: LTJ
CHECKED: SWK CHECKED: GJR

INDIANA DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS
LINES "C", "D", & "PR-D"

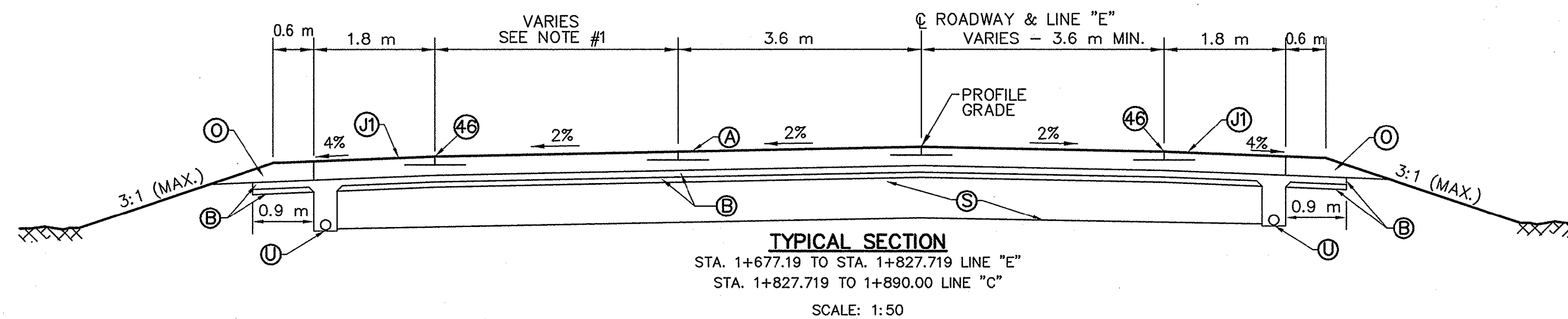
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	
VERTICAL SCALE	DESIGNATION
AS NOTED	8351130
SURVEY BOOK	SHEETS
16588	3 of 31
CONTRACT	PROJECT
R-26740	ST-212-4(008)



TYPICAL INCIDENTAL SECTION
 U.S. 421 STA. 1+410 TO 1+430 LINE "C"
 U.S. 6 STA. 1+890 TO 1+910 LINE "C"
 C.R. 600 S STA. 1+593.180 TO 1+613.180 LINE "PR-E"
 U.S. 421 STA. 1+910 TO 1+930 LINE "D"
 SCALE: 1:50



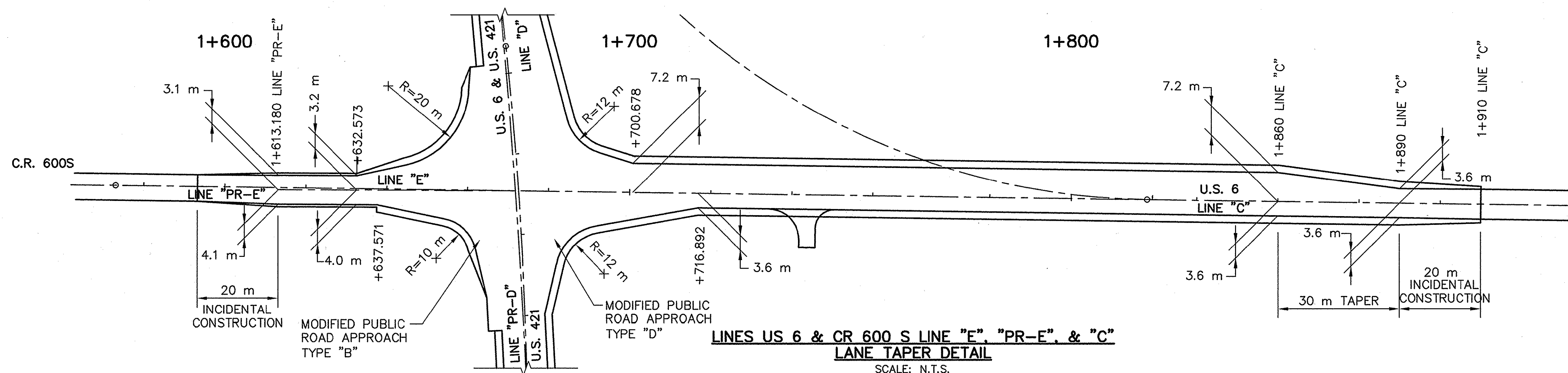
TYPICAL SECTION
 STA. 1+613.180 LINE "PR-E" TO STA. 1+637.571 LINE "PR-E"
 SCALE: 1:50



TYPICAL SECTION
 STA. 1+677.19 TO STA. 1+827.719 LINE "E"
 STA. 1+827.719 TO 1+890.00 LINE "C"
 SCALE: 1:50

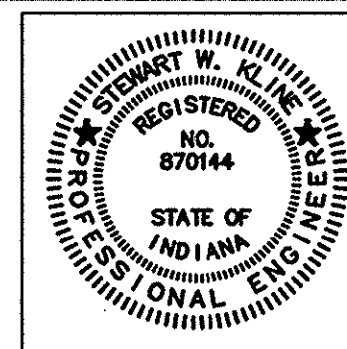
NOTE #1

VARIES - 3.6 m (MIN.) STA. 1+677.19 TO 1+700.680 LINE "E"
 3.6 m FROM STA. 1+700.680 TO STA. 1+827.719 LINE "E"
 3.6 m FROM STA. 1+827.719 TO STA. 1+860.00 LINE "C"
 VARIES 3.6 m TO 0.0 m FROM STA. 1+860.00 LINE "C" TO STA. 1+890.00 LINE "C"



- (A) 275 mm PLAIN CEMENT CONCRETE PAVEMENT W/ JOINTS @ 5.5 m
- (B) 175 mm SUBBASE FOR PLAIN CEMENT CONCRETE PAVEMENT
100 mm COURSE AGGR. FOR BASE #8 ON
75 mm COMPACTED AGGR. FOR BASE "O" SIZE No. 53
- (R) 35.0 mm SURFACE MILLING AND
90 kg/m² HMA, TYPE B, SURFACE, (VARIABLE), 9.5 mm
- (J) 90 kg/m² HMA, TYPE B SURFACE, 9.5 mm ON 270 kg/m²
HMA, TYPE A, BASE, 25.0 mm ON 200 mm COMPACTED
AGGREGATE, No 53, BASE

- (O) 275 mm COMPACTED AGGREGATE No. 53, BASE
- (J1) 275 mm TIED PCC SHOULDER
- (S) SUBGRADE TREATMENT TYPE A
- (U) 150 mm UNDERDRAIN
- (46) 100 mm SOLID WHITE EPOXY LINE

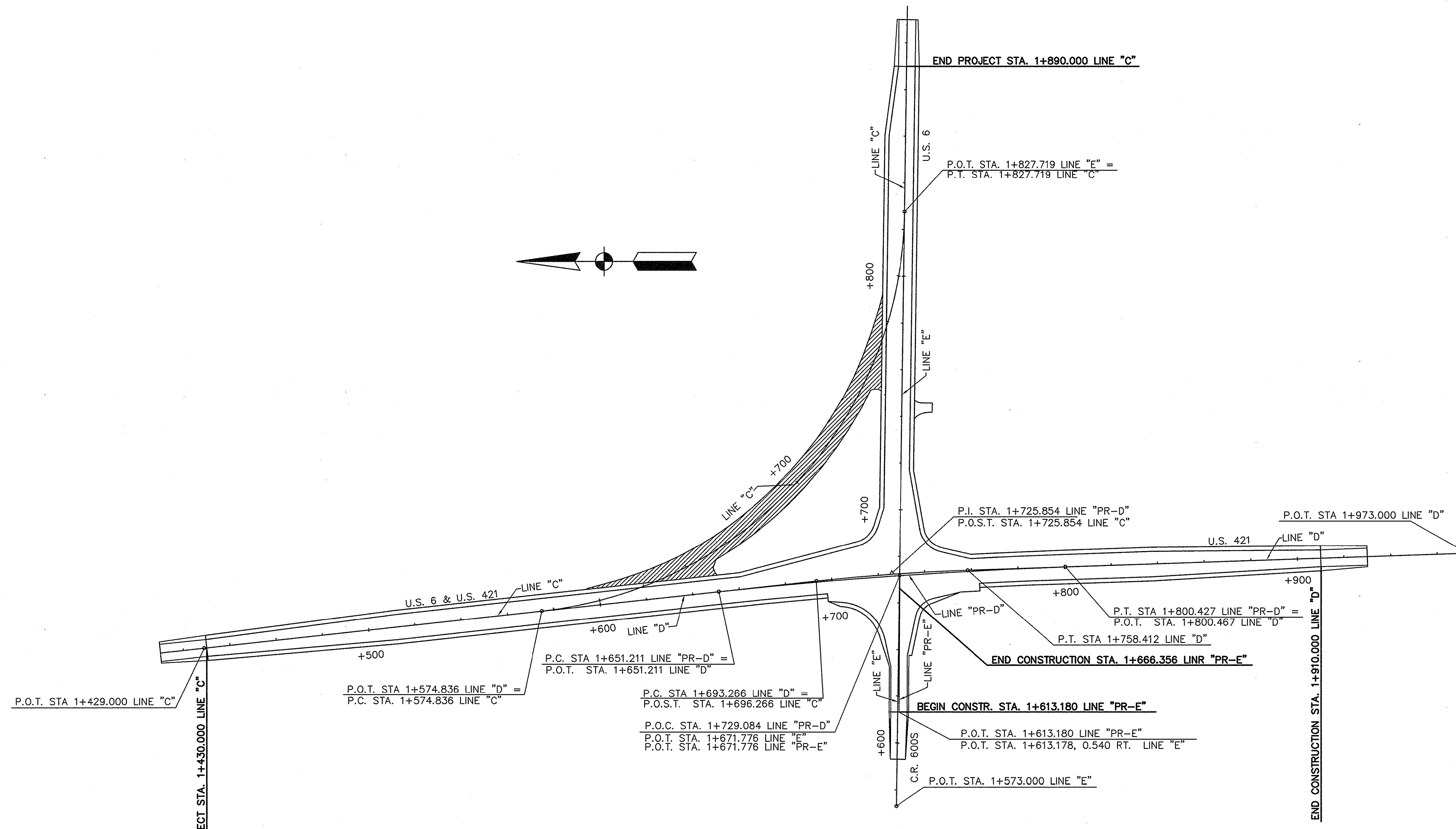


RECOMMENDED FOR APPROVAL	<i>Stuart W. Koza</i>	2/10/03
DESIGNED:	GJR	DRAWN:
CHECKED:	SWK	CHECKED:

INDIANA DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
LINE "E" & "PR-E"

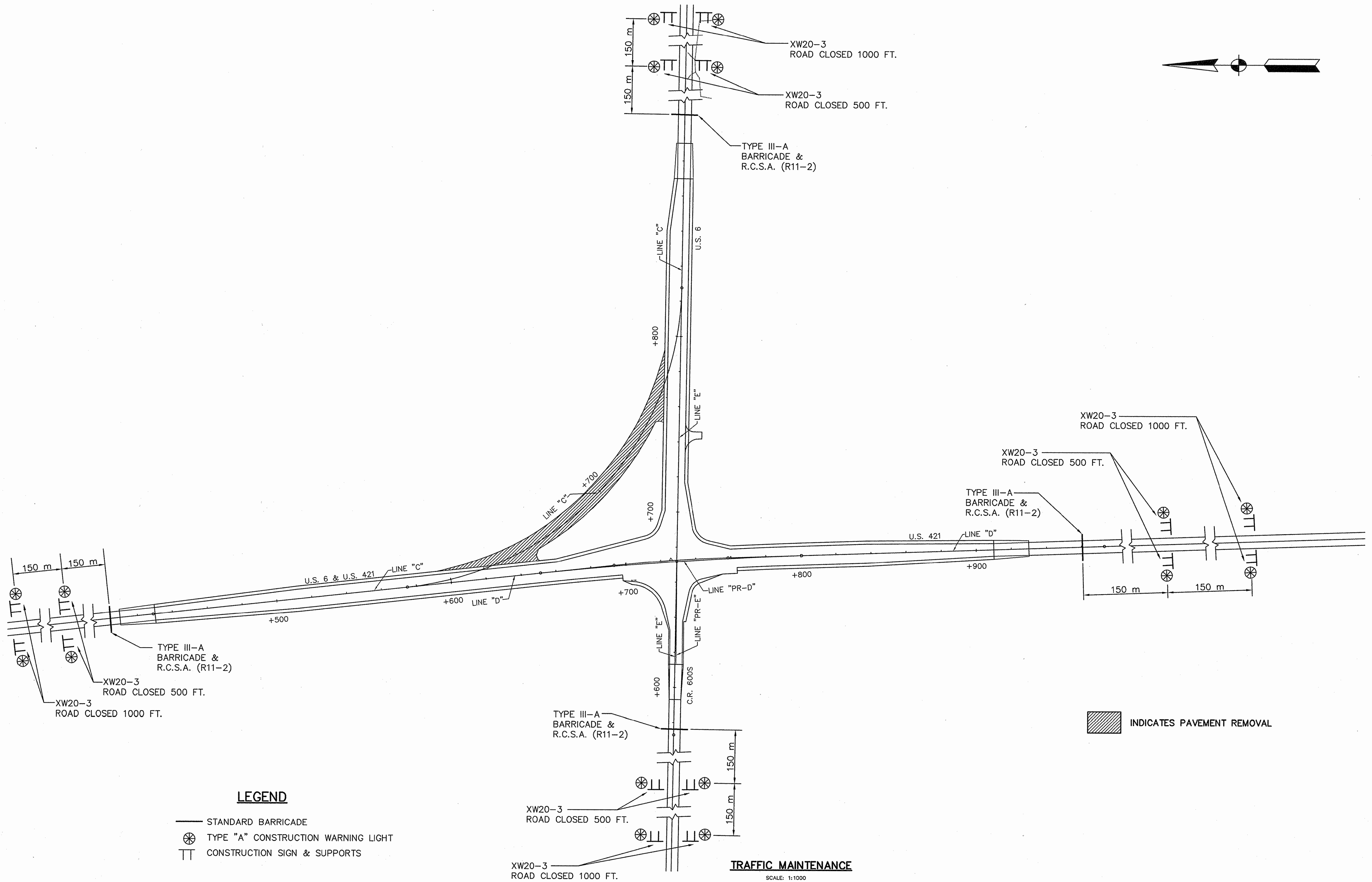
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	
VERTICAL SCALE	DESIGNATION
AS NOTED	8351130
SURVEY BOOK	SHEETS
16588	4 of 31
CONTRACT	PROJECT
R-26740	ST-212-4(008)



PROJECT LAYOUT
SCALE: 1:1000

INDICATES PAVEMENT REMOVAL

		RECOMMENDED FOR APPROVAL	<i>Mark W. Kline</i>	2/10/03	INDIANA DEPARTMENT OF TRANSPORTATION PROJECT LAYOUT	HORIZONTAL SCALE	BRIDGE FILE
		DESIGNED: GJR	DRAWN: LTJ			1:1000	
		CHECKED: SWK	CHECKED: GJR			VERTICAL SCALE	DESIGNATION
						AS NOTED	8351130
					SURVEY BOOK	SHEETS	
					16588	5 of 31	
					CONTRACT	PROJECT	
					R-26740	ST-212-4(008)	



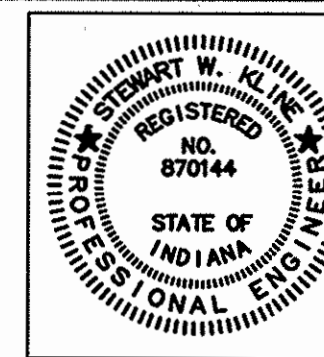
LEGEND

- STANDARD BARRICADE
- ⊗ TYPE "A" CONSTRUCTION WARNING LIGHT
- TT CONSTRUCTION SIGN & SUPPORTS

▨ INDICATES PAVEMENT REMOVAL

TRAFFIC MAINTENANCE

SCALE: 1:1000



RECOMMENDED FOR APPROVAL: *Stank W. K...* 2/19/03
 DESIGN ENGINEER DATE

DESIGNED: GJR DRAWN: LTJ
 CHECKED: SWK CHECKED: GJR

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC

HORIZONTAL SCALE	BRIDGE FILE
1:1000	
VERTICAL SCALE	DESIGNATION
AS NOTED	8351130
SURVEY BOOK	SHEETS
16588	6 of 31
CONTRACT	PROJECT
R-26740	ST-212-4(008)

CONSTRUCTION SIGN SUMMARY		
(E1)	R11-3 XM4-10L	ROAD CLOSED ___mi. AHEAD L.T.O. DETOUR ARROW (LEFT)
(E2)	R11-3 XM4-10R	ROAD CLOSED ___mi. AHEAD L.T.O. DETOUR ARROW (RIGHT)
(E3)	R11-3 XM4-10L	ROAD CLOSED ___mi. AHEAD L.T.O. DETOUR ARROW (LEFT)
(E4)	R11-3 XM4-10R	ROAD CLOSED ___mi. AHEAD L.T.O. DETOUR ARROW (RIGHT)
(F)	R11-3 W/ TYPE III-B BARRICADE	ROAD CLOSED ___mi. AHEAD L.T.O.
(G)	XW20-2	DETOUR AHEAD
(H)	XW20-3	ROAD CLOSED 1000 ft.

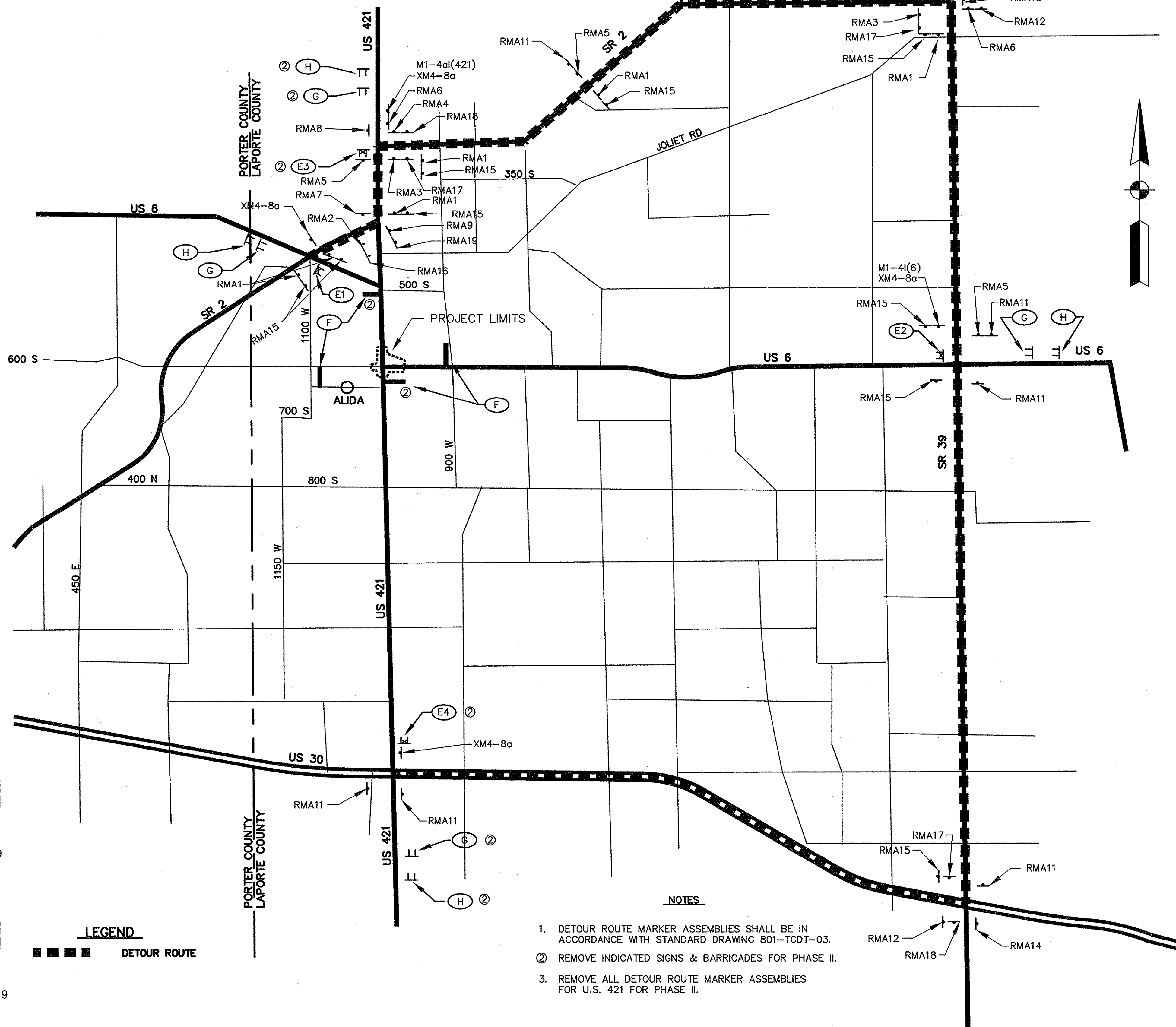
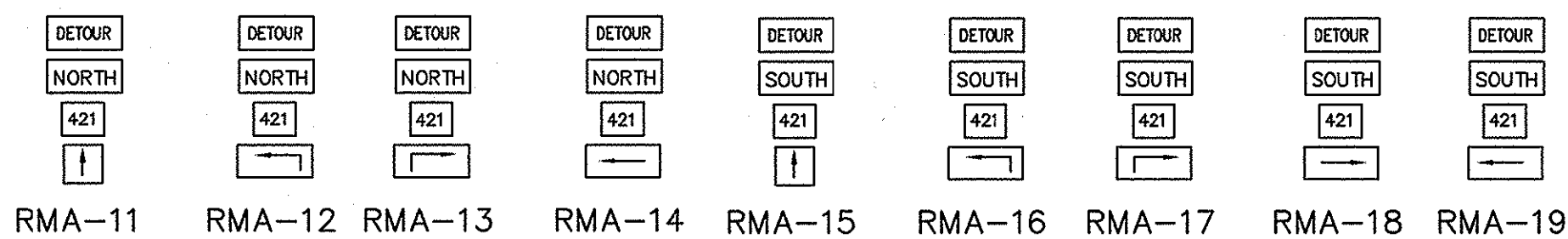
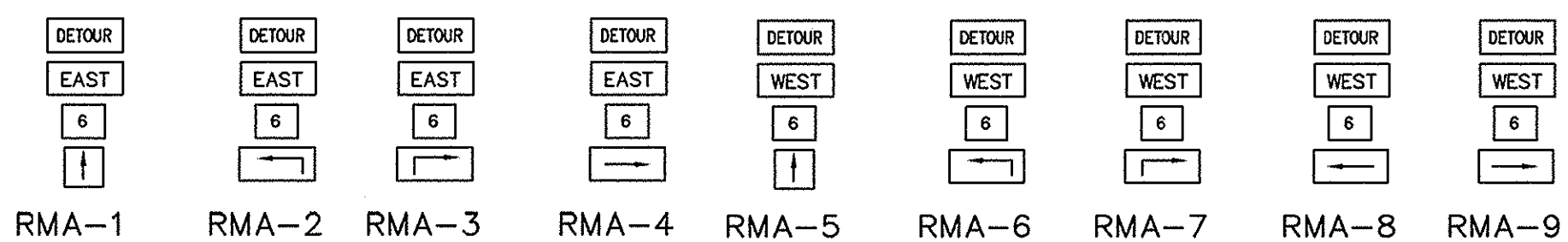
ESTIMATE OF QUANTITIES -US 6 AND US 421 CLOSURE

ITEM	QUANTITY
TYPE III-B BARRICADES W/ SIGNS	6 EACH
ROAD CLOSURE SIGN ASSEMBLY	6 EACH
CONSTRUCTION SIGN TYPE "A"	18 EACH
DETOUR ROUTE MARKER ASSEMBLY	49 EACH

DETOUR ROUTE MARKER ASSEMBLY SCHEDULE

SIGN DESCRIPTION	SIGN CODE	SIZE	TOTAL	
421	M1-4d	750 x 600	29	D.R.M.A.
END DETOUR	XM4-8a	600 x 600	4	D.R.M.A.
DETOUR	XM4-8	600 x 600	46	D.R.M.A.
(E)	M1-4l	600 x 600	23	D.R.M.A.
(NORTH)	M3-1S	600 x 300	11	D.R.M.A.
(EAST)	M3-2S	600 x 300	9	D.R.M.A.
(SOUTH)	M3-3S	600 x 300	14	D.R.M.A.
(WEST)	M3-4S	600 x 300	9	D.R.M.A.
()	M5-1(R)	525 x 375	5	D.R.M.A.
()	M5-1(L)	525 x 375	7	D.R.M.A.
()	M6-3S	525 x 375	26	D.R.M.A.
() OR ()	M6-1S	525 x 375	11	D.R.M.A.

D.R.M.A. - INDICATES ITEM INCLUDED IN DETOUR ROUTE MARKER ASSEMBLIES



NOTES

- DETOUR ROUTE MARKER ASSEMBLIES SHALL BE IN ACCORDANCE WITH STANDARD DRAWING 801-TCDT-03.
- REMOVE INDICATED SIGNS & BARRICADES FOR PHASE II.
- REMOVE ALL DETOUR ROUTE MARKER ASSEMBLIES FOR U.S. 421 FOR PHASE II.

LEGEND

■■■■■ DETOUR ROUTE

**INDIANA
DEPARTMENT OF TRANSPORTATION**

DETOUR LAYOUT

DESIGNED: GJR DRAWN: JVH
CHECKED: SWK CHECKED: GJR

HORIZONTAL SCALE	BRIDGE FILE
N.T.S.	DESIGNATION
VERTICAL SCALE	8351130
SURVEY BOOK	SHEETS
16588	7 of 31
CONTRACT	PROJECT
R26740	ST-212-4(008)

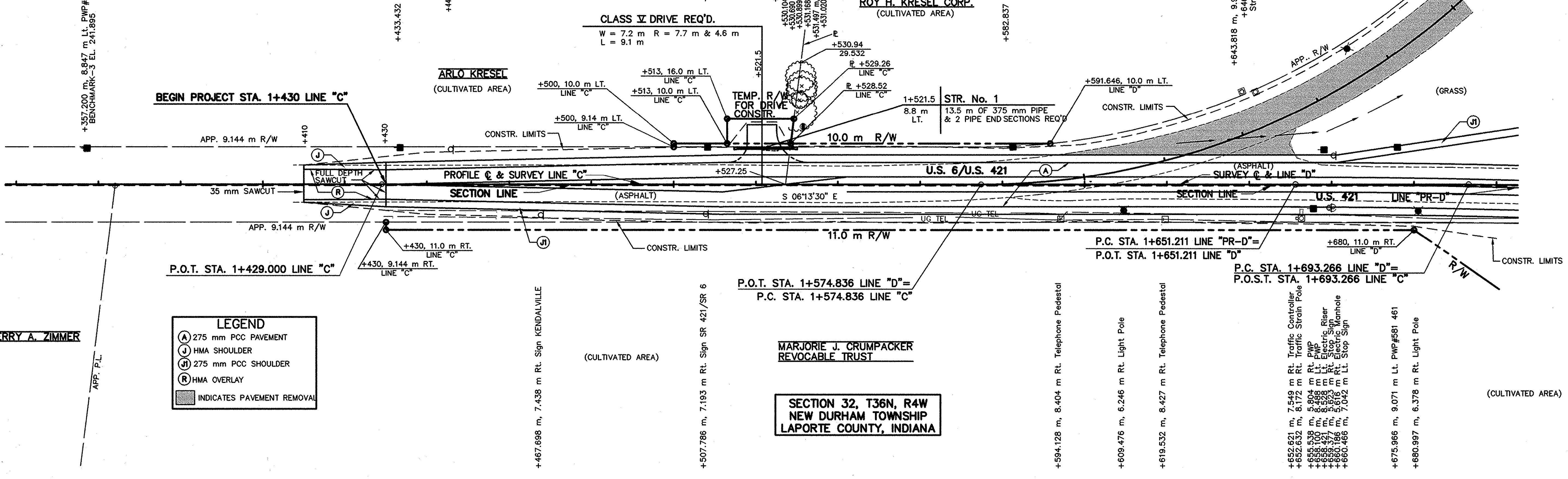
EARTHWORK TABLE	
COMMON EXCAVATION LINE "C"	== 2383 m ³
TOTAL	== 2383 m ³
FILL + 20%	== 216 m ³

1+400 1+500 1+600 1+700

SECTION 33, T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA

ROY H. KRESEL CORP.
(CULTIVATED AREA)

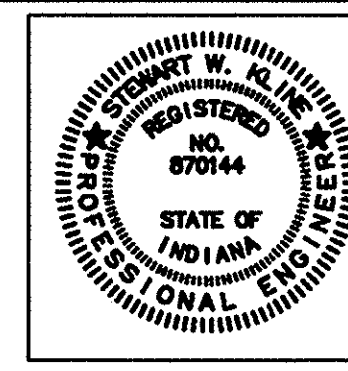
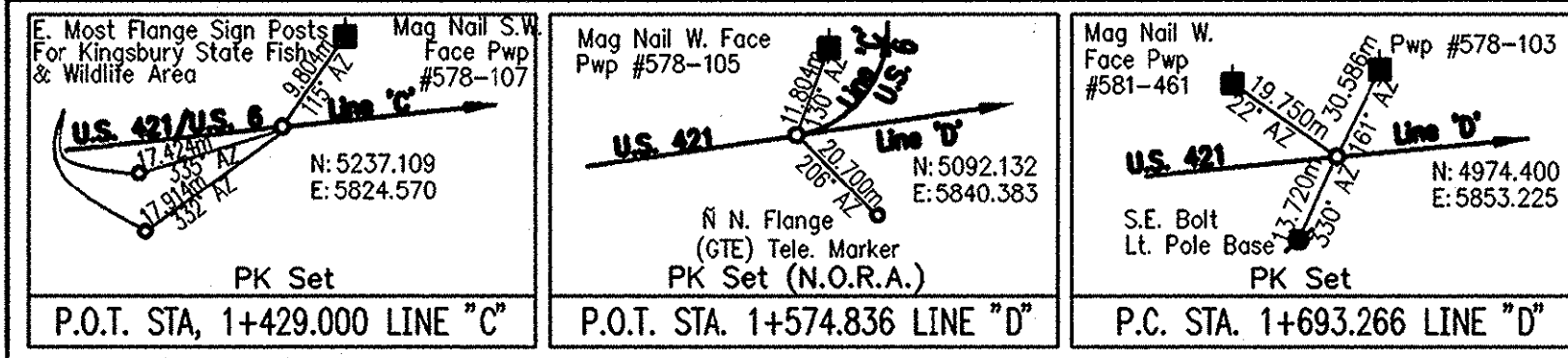
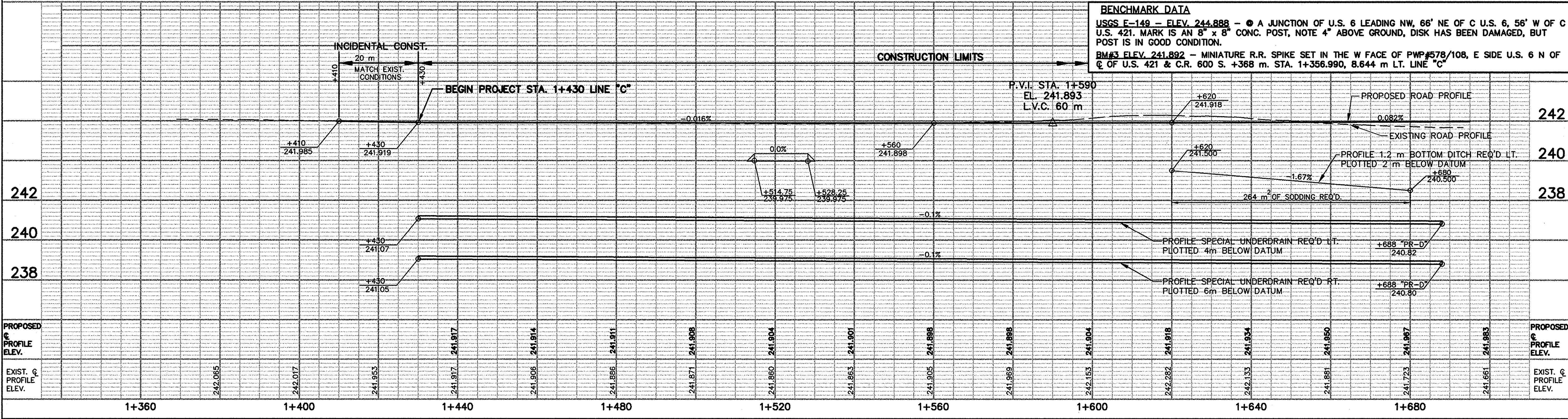
SECTION 32, T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA



LEGEND

- (A) 275 mm PCC PAVEMENT
- (J) HMA SHOULDER
- (M) 275 mm PCC SHOULDER
- (R) HMA OVERLAY
- INDICATES PAVEMENT REMOVAL

BENCHMARK DATA
 USGS E-149 - ELEV. 244.888 - @ A JUNCTION OF U.S. 6 LEADING NW, 66° NE OF C U.S. 6, 56° W OF C U.S. 421. MARK IS AN 8" x 8" CONC. POST, NOTE 4" ABOVE GROUND, DISK HAS BEEN DAMAGED, BUT POST IS IN GOOD CONDITION.
 BM#3 ELEV. 241.892 - MINIATURE R.R. SPIKE SET IN THE W FACE OF PWP#578/108, E SIDE U.S. 6 N OF C OF U.S. 421 & C.R. 600 S. +368 m. STA. 1+356.990, 8.644 m LT. LINE "C"



RECOMMENDED FOR APPROVAL *Stanley K. ...* 2/10/03
 DESIGN ENGINEER DATE
 DESIGNED: GJR DRAWN: JVH/LTJ
 CHECKED: SWK CHECKED: GJR

INDIANA DEPARTMENT OF TRANSPORTATION
PLAN & PROFILE
LINE "C", "D", & "PR-D"

HORIZONTAL SCALE	BRIDGE FILE
1:500	
VERTICAL SCALE	DESIGNATION
1:100	8351130
SURVEY BOOK	SHEETS
16588	8 of 31
CONTRACT	PROJECT
R-26740	ST-212-4(008)

EARTHWORK TABLE	
COMMON EXCAVATION	
LINE "PR-E", "E"	= 585 m ³
TOTAL	= 585 m ³
FILL + 20%	= 1454 m ³
BENCHING (ESTIMATE)*	= 36 m

* NO DIRECT PAYMENT WILL BE MADE FOR BENCHING

**SECTION 32, T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA**

(CULTIVATED AREA)
MARJORIE J. CRUMPACKER REVOCABLE TRUST

P.O.T. STA. 1+573.000 LINE "E"

APP. EX. R/W

PROFILE C & SURVEY LINE "E"

C.R. 600S SECTION LINE

EX. R/W

P.O.T. STA. 1+613.180 LINE "PR-E"

P.O.T. STA. 1+613.178, 0.540 m RT. LINE "E"

BEGIN CONSTR. STA. 1+613.180

LINE "PR-E"

THE MIDLAND GROCERY COMPANY

1+600

CURVE DATA

P.I. STA. 1+725.854 LINE "D"
 $\Delta = 04^{\circ}16'29"$ LT.
 R=873.188 m
 T=32.588 m
 L=65.145 m
 E=0.608 m
 M=0.608

P.C. STA. 1+693.266 LINE "D"
 P.O.S.T. STA. 1+693.266 LINE "C"

P.O.C. STA. 1+729.084 LINE "PR-D"
 P.O.T. STA. 1+671.776 LINE "E"
 P.O.T. STA. 1+671.776 LINE "PR-E"

END CONSTR. STA. 1+666.356

LINE "PR-E"

+613.18, 7.0 m LT. LINE "E"

+613.18, 5.0292 m LT. LINE "E"

7.0 m R/W

10.0 m R/W

P.O.C. STA. 1+729.171 LINE "D"

P.O.T. STA. 1+672.559 LINE "E"

CONSTR. LIMITS

(GRASS)

P.T. STA. 1+758.412 LINE "D"

SECTION 5, T35N, R4W
CLINTON TOWNSHIP
LAPORTE COUNTY, INDIANA

LINE "PR-E" TO BE CONSTRUCTED

+577.077 m, 5.692 m Rt. PWP

+634.808 m, 17.174 m Rt. 910mm-1520mm Tree

+646.471 m, 9.155 m Rt. 1520 mm-Up Tree

+648.721 m, 5.851 m Rt. PWP

+651.544 m, 33.409 m Rt. 610mm-910mm Tree

+659.525 m, 17.681 m Rt. 910mm-1520mm Tree R/W

+770, 12.0 m LT. LINE "D"

+772.940, 13.00 m Rt. LINE "D"

1+700

P.I. STA. 1+725.854 LINE "D"
 P.O.S.T. STA. 1+725.854 LINE "C"

P.O.T. STA. 1+673.303 LINE "E"
 P.I. STA. 1+729.252 LINE "C"

(GRASS)

(CULTIVATED AREA)

BEGIN CONSTR. STA. 1+677.190

LINE "E"

APP. EX. R/W

CONSTR. LIMITS

(GRAVEL)

SECTION CORNER

U.S. 6

ASPHALT

11.0 m R/W

TEMP. R/W FOR DRIVE CONSTR.

CONSTR. LIMITS

(GRASS)

WELL ABANDONED (BRICK)

ABANDONED FOUNDATION

+698.796 m, 36.688 m Rt. 300mm-610mm Tree

+707.003 m, 6.963 m Rt. PWP

+714.058 m, 43.442 m Rt. 100mm-200mm Tree

+716.071 m, 30.027 m Rt. 100mm-200mm Tree

+715.485 m, 44.934 m Rt. 200mm-300mm Tree

+721.155 m, 37.391 m Rt. 200mm-300mm Tree

+720.000 m, 43.569 m Rt. 200mm-300mm Tree

+727.415 m, 23.983 m Rt. 910mm-1520mm Tree

+728.026 m, 43.135 m Rt. 200mm-300mm Tree

+732.000 m, 7.338 m Rt. PWP

+733.000 m, 14.238 m Rt. 910mm-1520mm Tree

+735.000 m, 8.243 m Rt. 910mm-1520mm Tree

+738.350 m, 8.243 m Rt. 910mm-1520mm Tree

+743.9

MODIFIED CLASS V DRIVE REQ'D.

W= 7.2 m L= 16.4 m

R= 7.7 m & 10.0 m

ROBERT W. MEYERS
LAVONN L. MEYERS

+772.987 m, 5.532 m Rt. Stop Sign

1+800

CURVE DATA

P.I. STA. 1+729.252 LINE "C"
 $\Delta = 82^{\circ}58'00"$ LT.
 R=174.638 m
 T=154.416 m
 L=252.883 m
 E=58.477 m
 M=43.808

ROY H. KRESEL

P.O.T. STA. 1+827.719 LINE "E"
 P.T. STA. 1+827.719 LINE "C"

12.0 m R/W

APP. EX. 9.144 m R/W

U.S. 6

SURVEY LINE "C"

35 mm SAWCUT

APP. EX. 9.144 m R/W

END PROJECT STA. 1+890

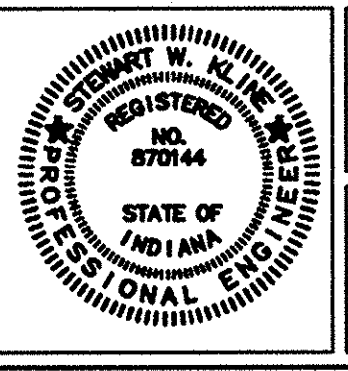
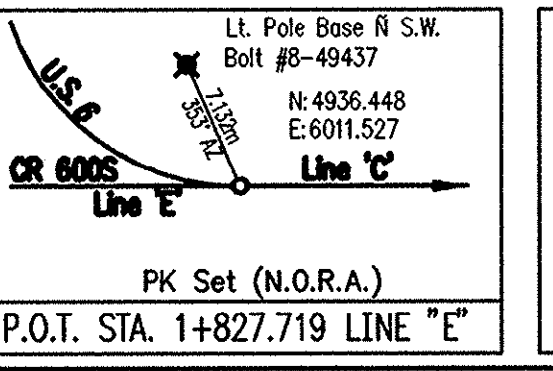
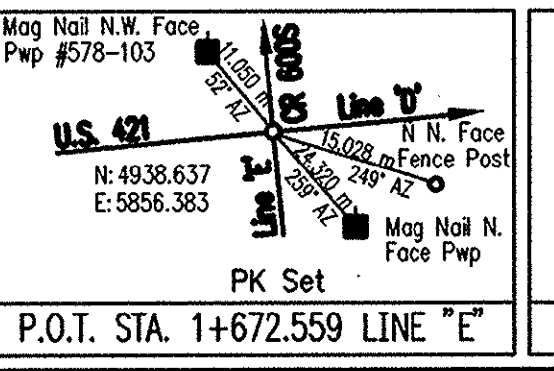
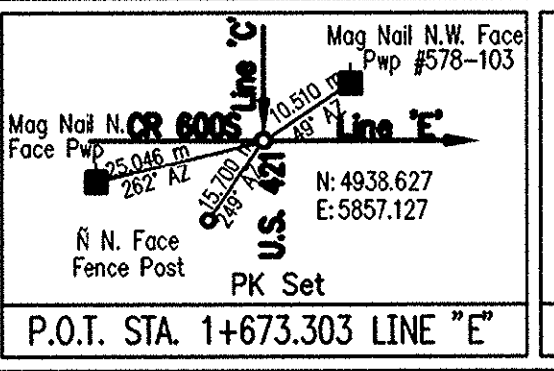
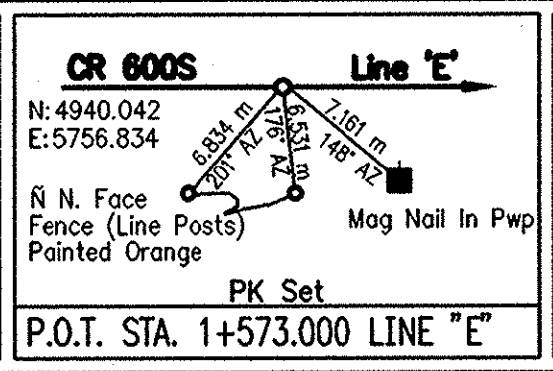
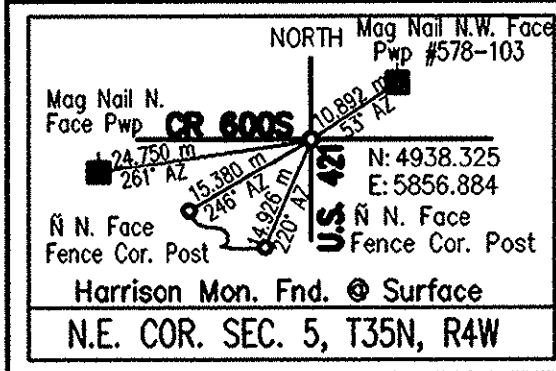
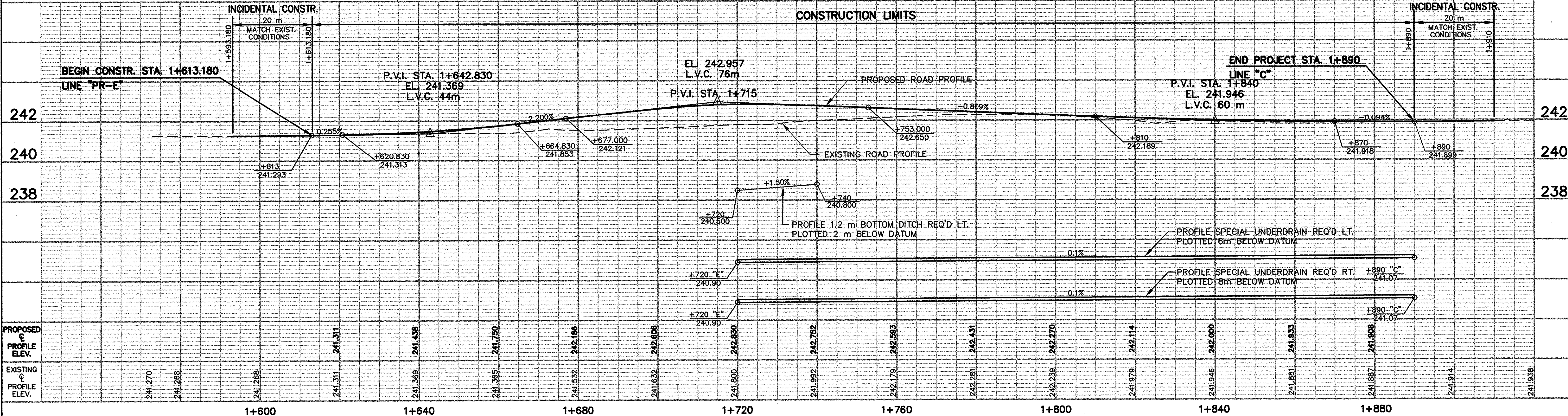
LINE "C"

LEGEND	
(A)	275 mm PCC PAVEMENT
(J)	HMA SHOULDERS
(D)	275 mm PCC SHOULDER
(R)	200 mm COMPACTED AGGREGATE
(H)	HMA OVERLAY
(X)	INDICATES PAVEMENT REMOVAL

**SECTION 4, T35N, R4W
CLINTON TOWNSHIP
LAPORTE COUNTY, INDIANA**

BENCHMARK DATA

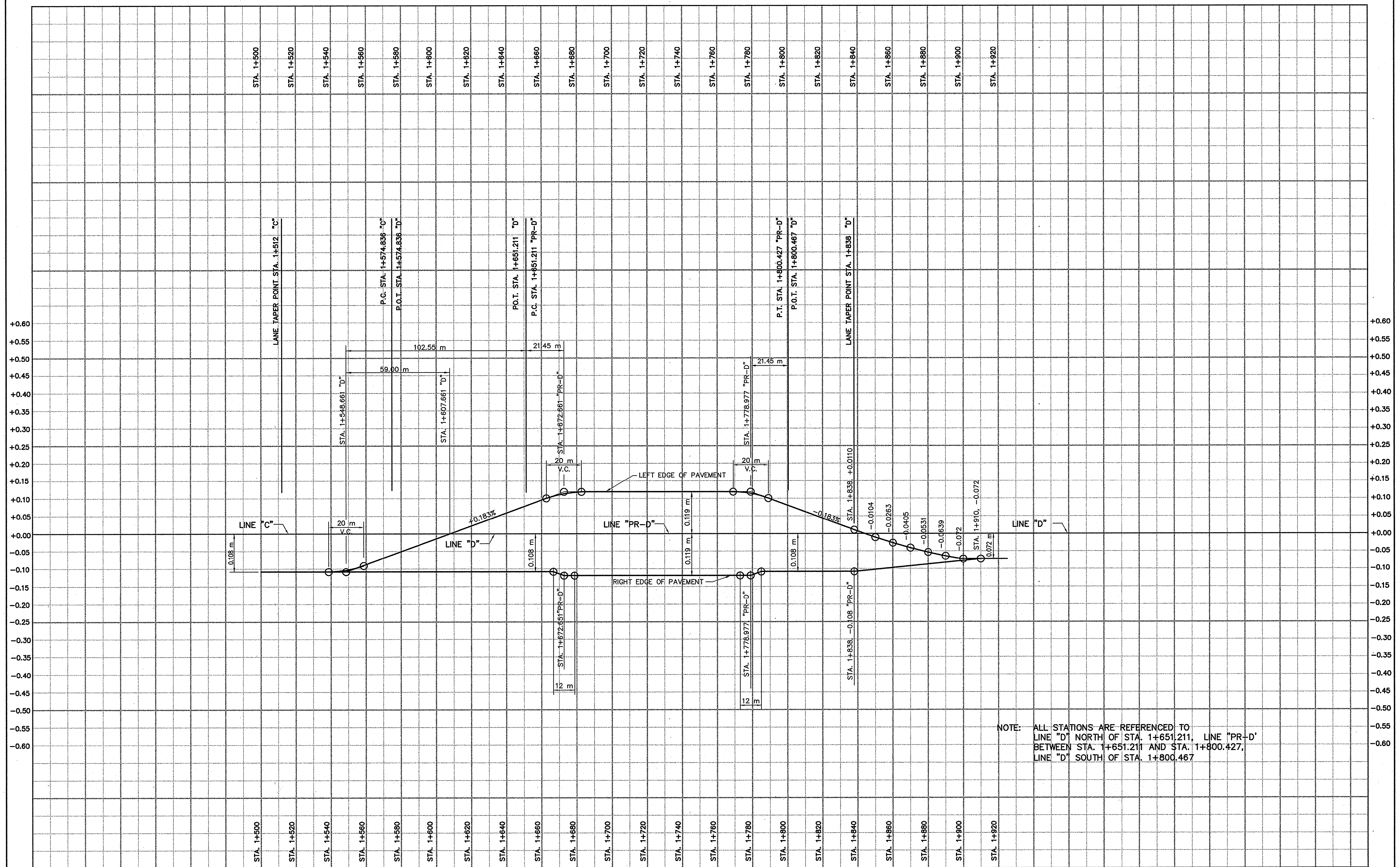
USGS F-149 - ELEV. 244.888 - A JUNCTION OF U.S. 6 LEADING NW, 66' NE OF C U.S. 6, 56' W OF C U.S. 421. MARK IS AN 8" x 8" CONC. POST, NOTE 4" ABOVE GROUND, DISK HAS BEEN DAMAGED, BUT POST IS IN GOOD CONDITION.
 BM#2 ELEV. 241.819 - MINIATURE R.R. SPIKE SET IN NW FACE OF A 900 mm TREE IN THE SE QUAD OF U.S. 421 & C.R. 600 S. STA. 1+726.909, 23.669 m RT. LINE "E"
 BM#4 ELEV. 241.423 - MINIATURE R.R. SPIKE, N FACE OF PWP#, S SIDE C.R. 600 S & W OF C U.S. 421 174 m. STA. 1+502.832, 5.452 m RT. LINE "E"
 BM#5 ELEV. 241.638 - MINIATURE R.R. SPIKE, N FACE PWP#(NO#), S SIDE U.S. 6, 48 m E OF NIPSCO (GAS) PROPERTY. STA. 2+045.147, 8.626 m RT. LINE "C"



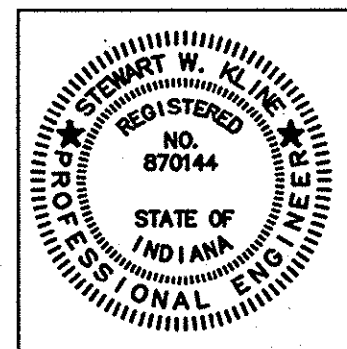
RECOMMENDED FOR APPROVAL
 DESIGN ENGINEER
 DATE
 DESIGNED: GJR
 DRAWN: JVH/LTJ
 CHECKED: SWK
 CHECKED: GJR

INDIANA DEPARTMENT OF TRANSPORTATION
 PLAN & PROFILE
 LINE "E", "PR-E", & "C"

HORIZONTAL SCALE		BRIDGE FILE	
1:500			
VERTICAL SCALE		DESIGNATION	
1:100			8351130
SURVEY BOOK		SHEETS	
16588		10	of 31
CONTRACT		PROJECT	
R-26740			ST-212-4(008)



RATE OF SUPER EL. = 0.022 m/m MAX.
LANE WIDTH = 3.6 m



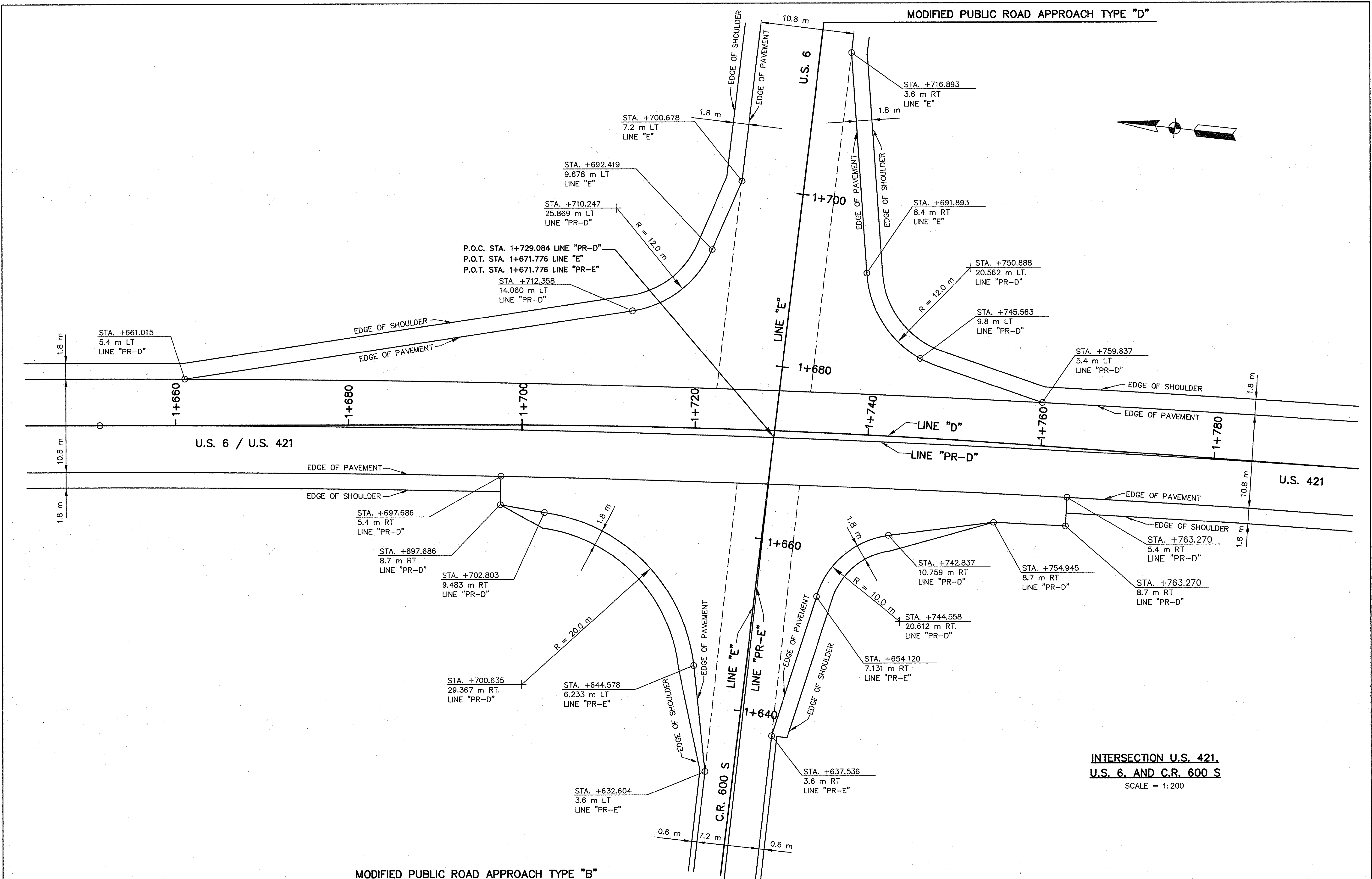
RECOMMENDED FOR APPROVAL *Stewart W. Klein* 2/10/03
DESIGN ENGINEER DATE

DESIGNED: GJR DRAWN: LTJ, JVH
CHECKED: SWK CHECKED: GJR

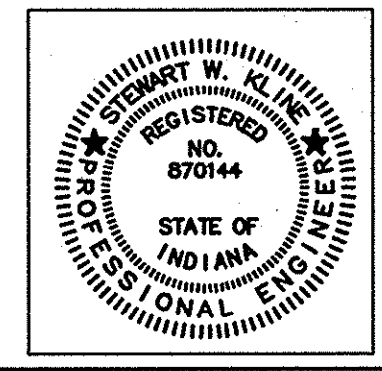
INDIANA
DEPARTMENT OF TRANSPORTATION

SUPERELEVATION TRANSITION
LINE "D" & "PR-D"

HORIZONTAL SCALE 1:1000	BRIDGE FILE
VERTICAL SCALE 1:5	DESIGNATION 8351130
SURVEY BOOK 16588	SHEETS 11 of 31
CONTRACT R-26740	PROJECT ST-212-4(008)



<p>RECOMMENDED FOR APPROVAL</p> <p>DESIGNED: GJR</p> <p>CHECKED: SWK</p>		<p>DATE: 2/19/03</p> <p>DRAWN: LTJ</p> <p>CHECKED: GJR</p>	
--	--	--	--

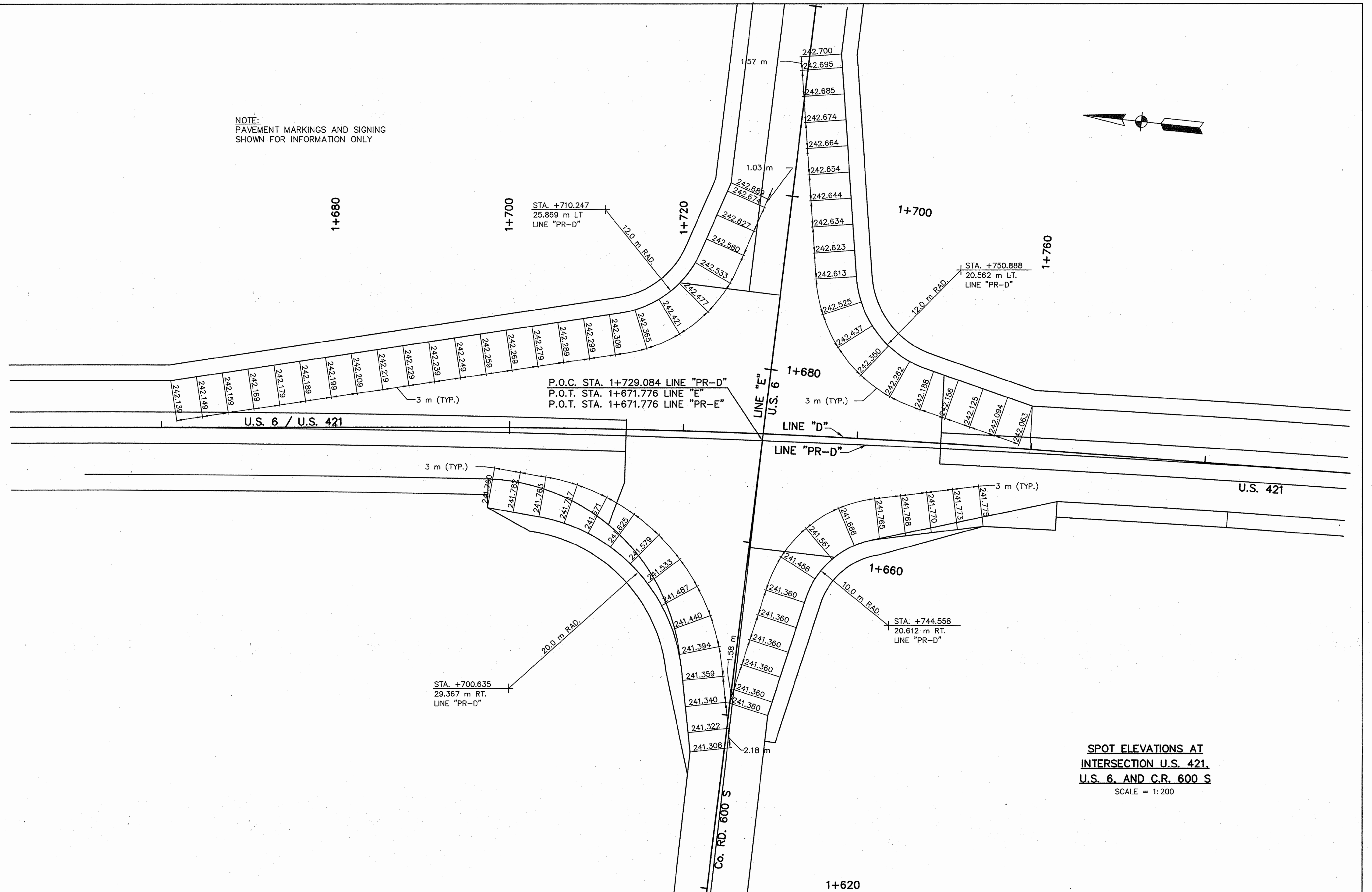


INDIANA DEPARTMENT OF TRANSPORTATION

INTERSECTION DETAIL

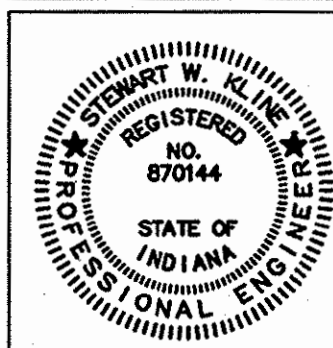
HORIZONTAL SCALE	BRIDGE FILE
1:200	
VERTICAL SCALE	DESIGNATION
AS NOTED	8351130
SURVEY BOOK	SHEETS
16588	12 of 31
CONTRACT	PROJECT
R-26740	ST-212-4(008)

NOTE:
PAVEMENT MARKINGS AND SIGNING
SHOWN FOR INFORMATION ONLY



P.O.C. STA. 1+729.084 LINE "PR-D"
P.O.T. STA. 1+671.776 LINE "E"
P.O.T. STA. 1+671.776 LINE "PR-E"

SPOT ELEVATIONS AT
INTERSECTION U.S. 421,
U.S. 6 AND C.R. 600 S
SCALE = 1:200



RECOMMENDED FOR APPROVAL
Stuart W. Klein 2/10/03
DESIGN ENGINEER DATE

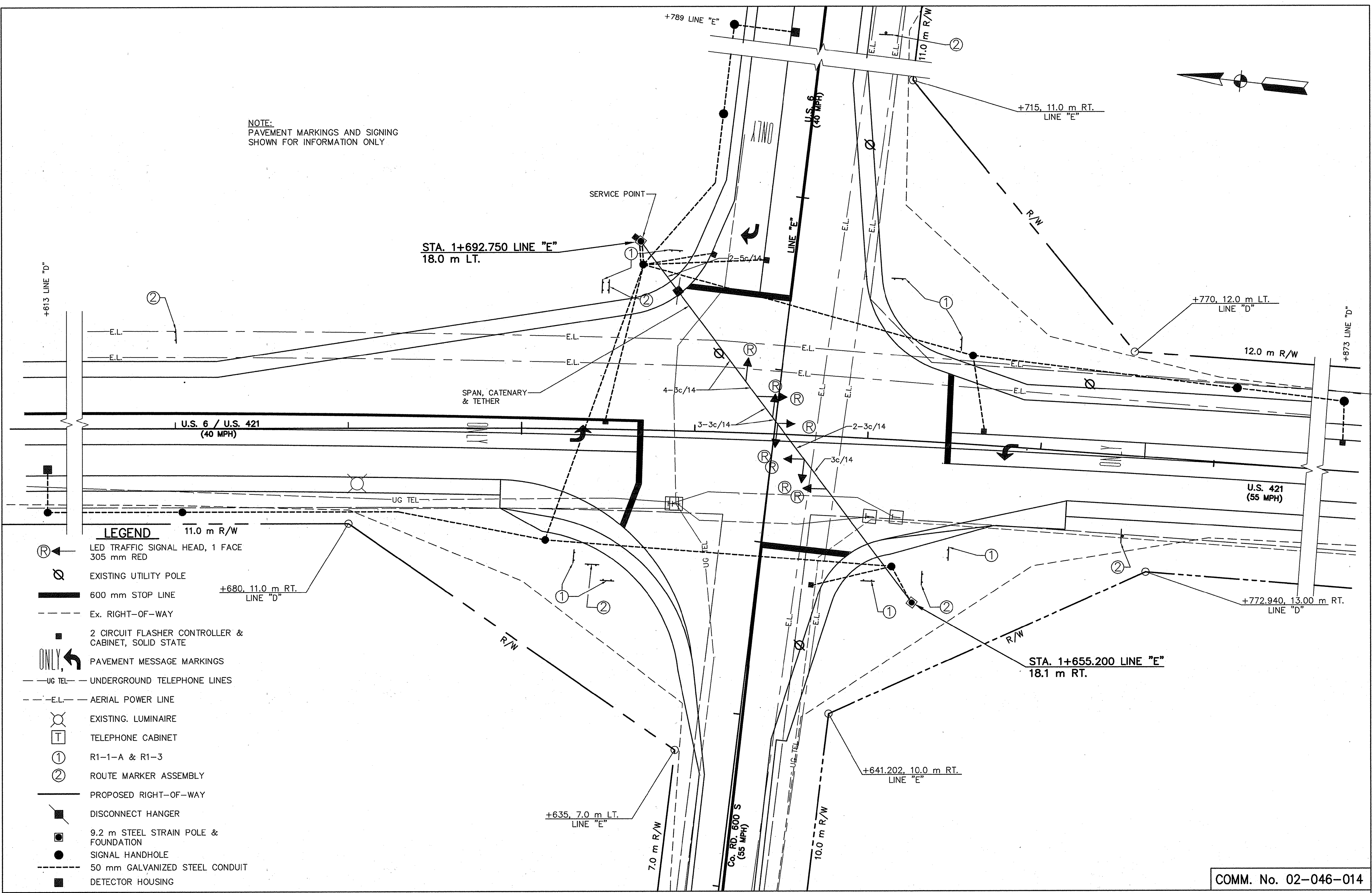
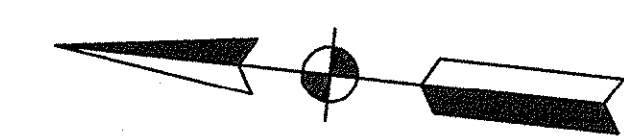
DESIGNED: GJR DRAWN: JVH
CHECKED: SWK CHECKED: GJR

INDIANA
DEPARTMENT OF TRANSPORTATION

INTERSECTION
SPOT ELEVATIONS

HORIZONTAL SCALE 1:200	BRIDGE FILE
VERTICAL SCALE AS NOTED	DESIGNATION 8351130
SURVEY BOOK 16588	SHEETS 13 of 31
CONTRACT R-26740	PROJECT ST-212-4(008)

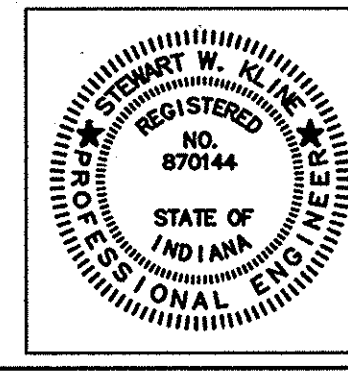
NOTE:
PAVEMENT MARKINGS AND SIGNING
SHOWN FOR INFORMATION ONLY



LEGEND

- Ⓡ LED TRAFFIC SIGNAL HEAD, 1 FACE
305 mm RED
- ⊘ EXISTING UTILITY POLE
- 600 mm STOP LINE
- - - - - Ex. RIGHT-OF-WAY
- 2 CIRCUIT FLASHER CONTROLLER &
CABINET, SOLID STATE
- ONLY, ← PAVEMENT MESSAGE MARKINGS
- - UG TEL - - UNDERGROUND TELEPHONE LINES
- - E.L. - - AERIAL POWER LINE
- ⊘ EXISTING LUMINAIRE
- T TELEPHONE CABINET
- ① R1-1-A & R1-3
- ② ROUTE MARKER ASSEMBLY
- - - - - PROPOSED RIGHT-OF-WAY
- DISCONNECT HANGER
- 9.2 m STEEL STRAIN POLE &
FOUNDATION
- SIGNAL HANDHOLE
- - - - - 50 mm GALVANIZED STEEL CONDUIT
- DETECTOR HOUSING

COMM. No. 02-046-014



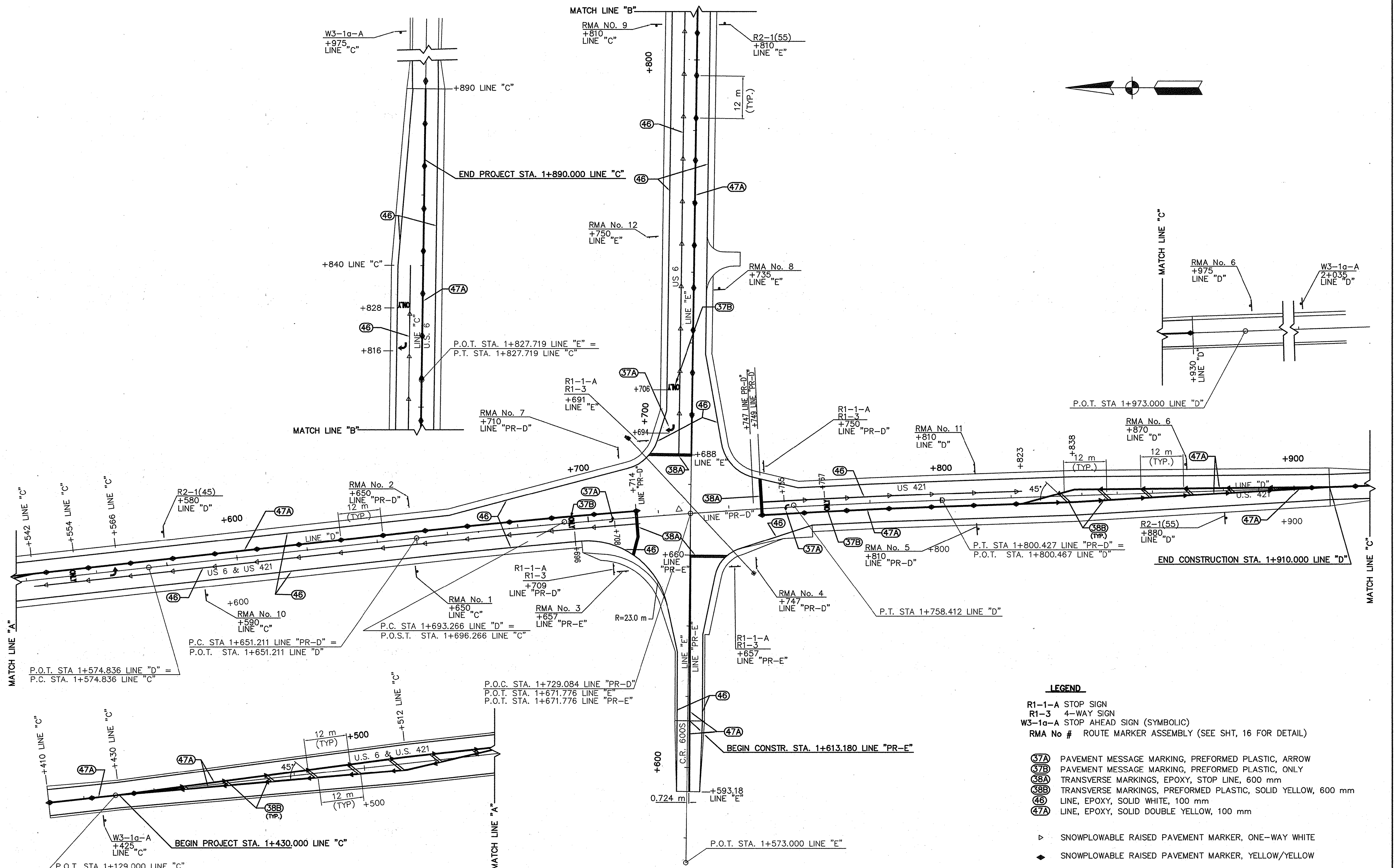
RECOMMENDED FOR APPROVAL *Stewart W. Kline* 2/10/03
DESIGN ENGINEER DATE

DESIGNED: GJR DRAWN: JVH
CHECKED: SWK CHECKED: GJR

INDIANA DEPARTMENT OF TRANSPORTATION

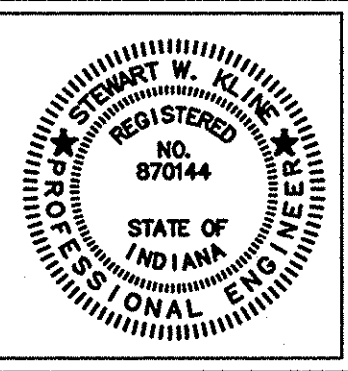
**FLASHING BEACON INSTALLATION
U.S. 6 & U.S. 421 (SOUTH JCT.)
LAPORTE COUNTY, LAPORTE DISTRICT**

HORIZONTAL SCALE 1:200	BRIDGE FILE
VERTICAL SCALE AS NOTED	DESIGNATION 985113A
SURVEY BOOK 16588	SHEETS 14 of 31
CONTRACT R-26740	PROJECT ST-212-4(008)



PAVEMENT MARKING
SCALE: 1:500

- LEGEND**
- R1-1-A STOP SIGN
 - R1-3 4-WAY SIGN
 - W3-1a-A STOP AHEAD SIGN (SYMBOLIC)
 - RMA No # ROUTE MARKER ASSEMBLY (SEE SHT, 16 FOR DETAIL)
 - (37A) PAVEMENT MESSAGE MARKING, PREFORMED PLASTIC, ARROW
 - (37B) PAVEMENT MESSAGE MARKING, PREFORMED PLASTIC, ONLY
 - (38A) TRANSVERSE MARKINGS, EPOXY, STOP LINE, 600 mm
 - (38B) TRANSVERSE MARKINGS, PREFORMED PLASTIC, SOLID YELLOW, 600 mm
 - (46) LINE, EPOXY, SOLID WHITE, 100 mm
 - (47A) LINE, EPOXY, SOLID DOUBLE YELLOW, 100 mm
 - ▷ SNOWFLOWABLE RAISED PAVEMENT MARKER, ONE-WAY WHITE
 - ◆ SNOWFLOWABLE RAISED PAVEMENT MARKER, YELLOW/YELLOW
 - ▶ SNOWFLOWABLE RAISED PAVEMENT MARKER, ONE-WAY YELLOW



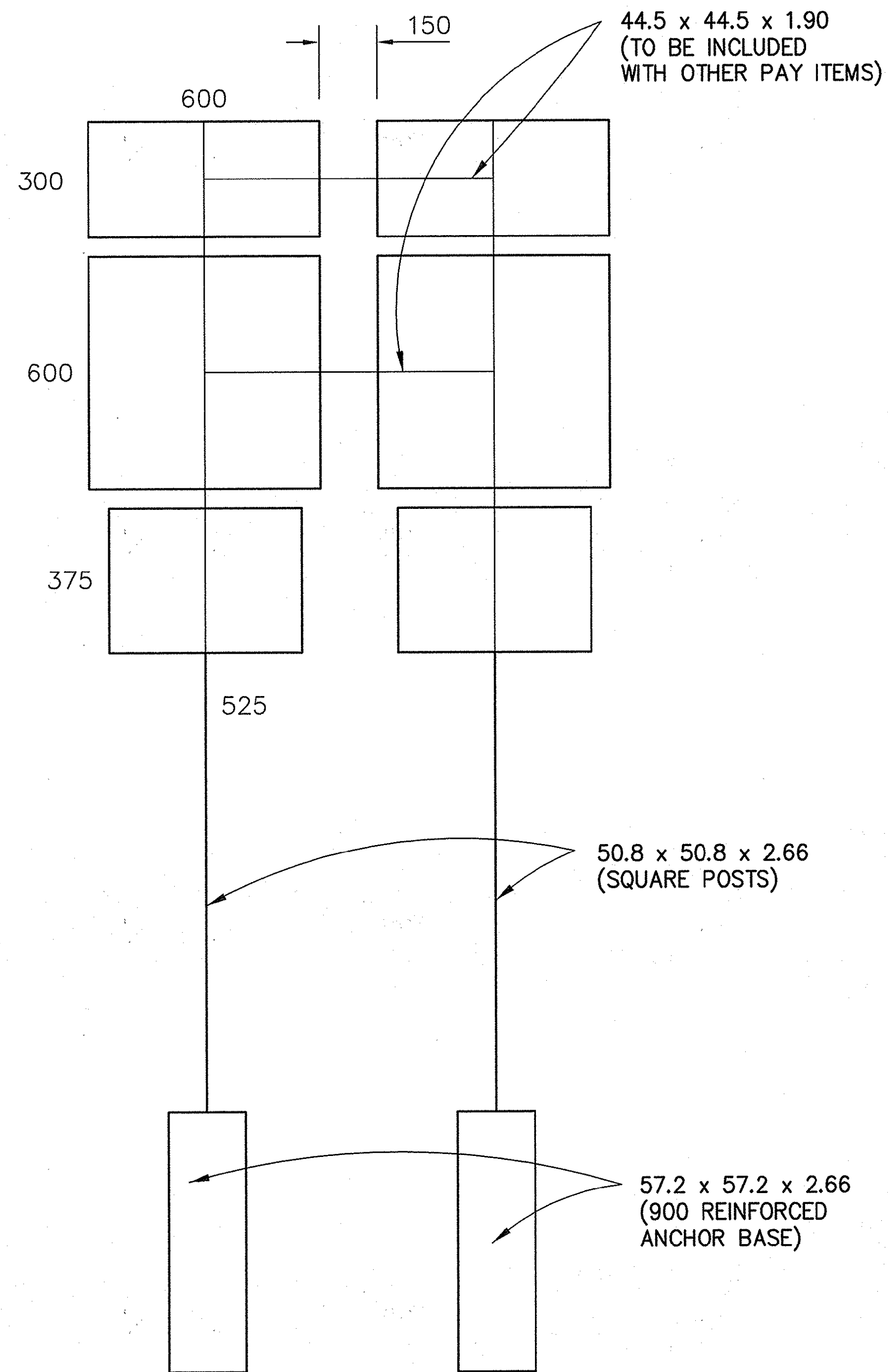
RECOMMENDED FOR APPROVAL *Stewart W. Kline* 2/20/03
DESIGN ENGINEER DATE

DESIGNED: GJR DRAWN: JVH
CHECKED: SWK CHECKED: GJR

INDIANA
DEPARTMENT OF TRANSPORTATION

SIGN & PAVEMENT MARKING DETAILS

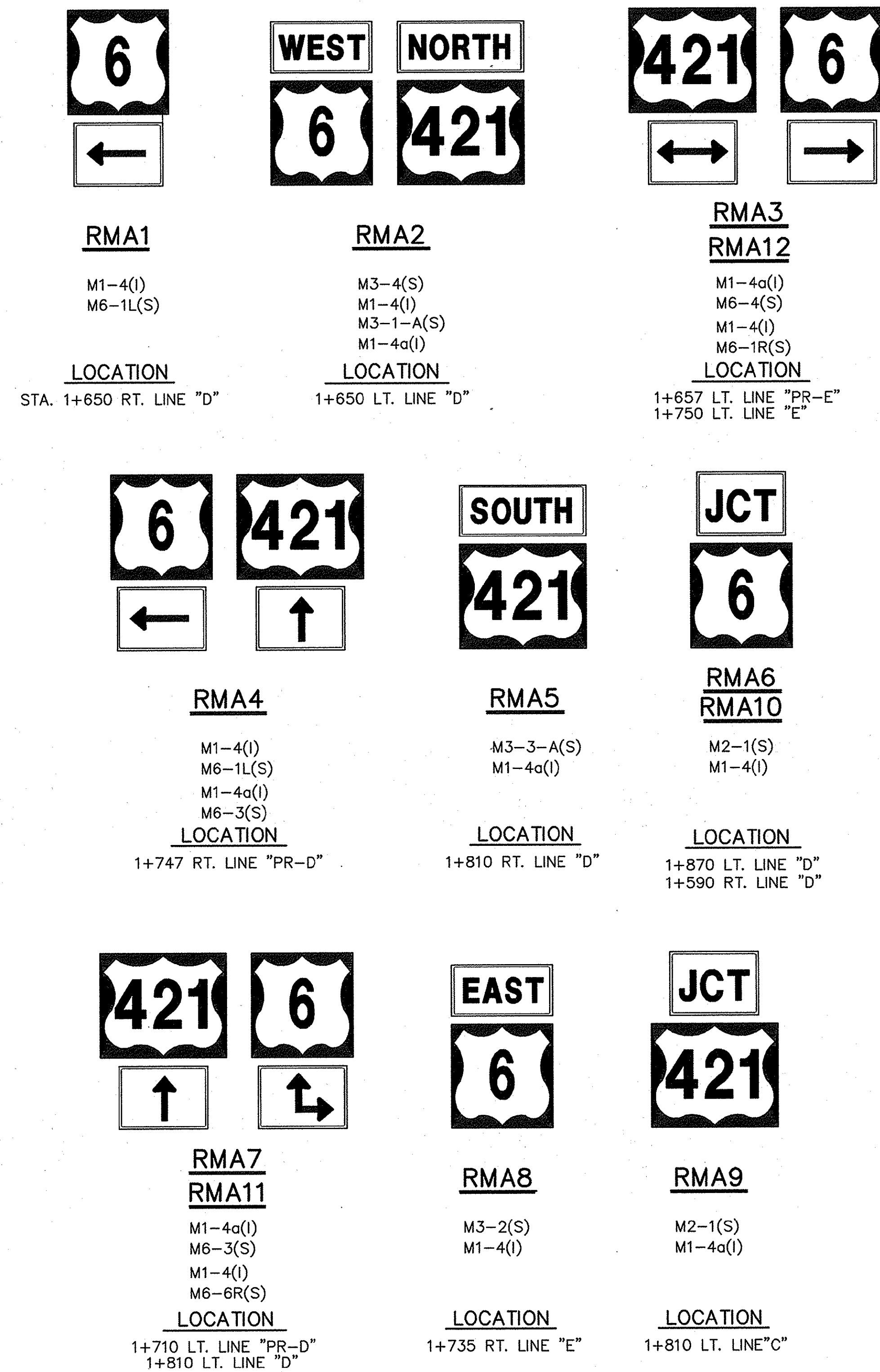
HORIZONTAL SCALE 1:500	BRIDGE FILE
VERTICAL SCALE AS NOTED	DESIGNATION 8351130
SURVEY BOOK 16588	SHEETS 15 of 31
CONTRACT R-26740	PROJECT ST-212-4(008)



NOTE: THE DETAIL ABOVE IS FOR 600 RMA SERIES AND POSTS WITHIN 2.1 m PATH.
ALL DIMENSIONS ARE IN MILLIMETERS EXCEPT AS NOTED.

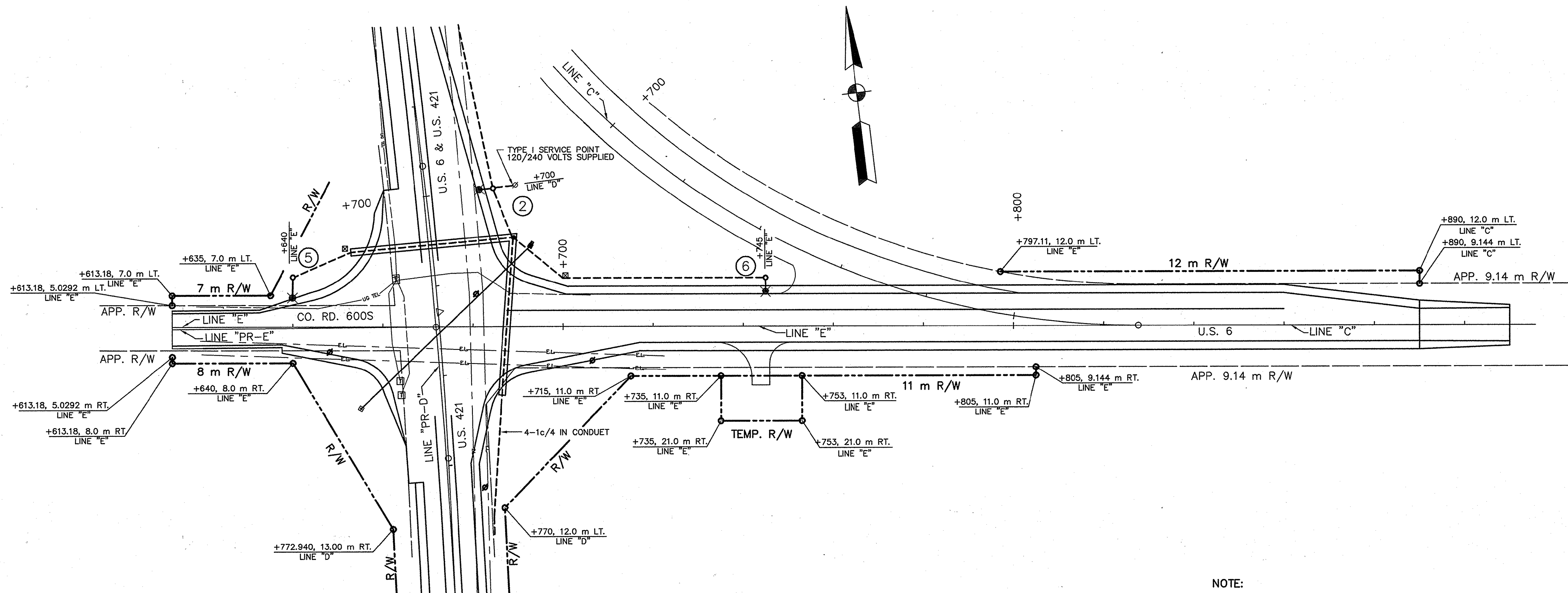
ROUTE MARKER POSTS ASSEMBLY DETAIL

SCALE = N.T.S.



ALL DIMENSIONS ARE IN MILLIMETERS (mm) AND ELEVATIONS AND STATIONS ARE IN METERS (m) UNLESS OTHERWISE NOTED

	RECOMMENDED FOR APPROVAL: <i>Shant W. K. Qi</i> 2/10/03 DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION SIGN DETAILS	HORIZONTAL SCALE	BRIDGE FILE	
	DESIGNED: GJR		DRAWN: JVH	N/A	
	CHECKED: SWK		CHECKED: GJR	VERTICAL SCALE	DESIGNATION
				N/A	8351130
			SURVEY BOOK	SHEETS	
			16588	16 of 31	
			CONTRACT	PROJECT	
			R-26740	ST-212-4(008)	

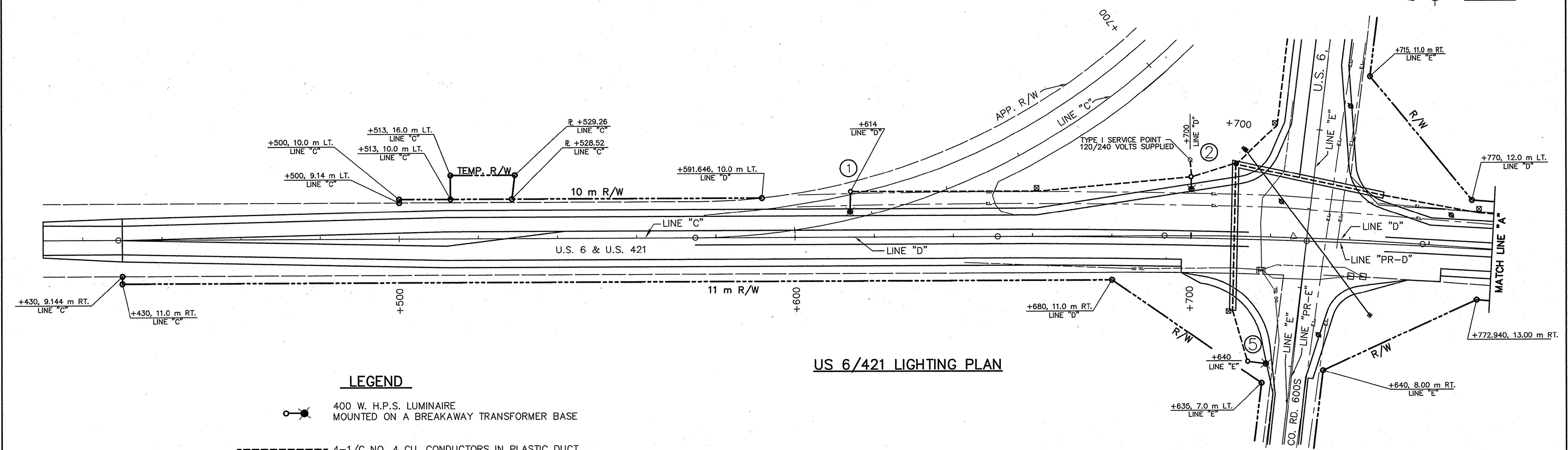


US 6 LIGHTING PLAN

NOTE:

- SEE SHEET 18 FOR LIGHTING NORTH AND SOUTH OF INTERSECTION LUMINAIRES 1 THRU 4
- THE CIRCLED NUMBERS ON THESE PLAN SHEETS ARE TO BE INTERPRETED AS THE DIGIT OF THE IDENTIFICATION NUMBERS PRECEDED BY 46-6-421-
- THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY BEFORE THE INSTALLATION OF CABLE DUCT FOR THE EXACT LOCATION OF THE SERVICE POINT.

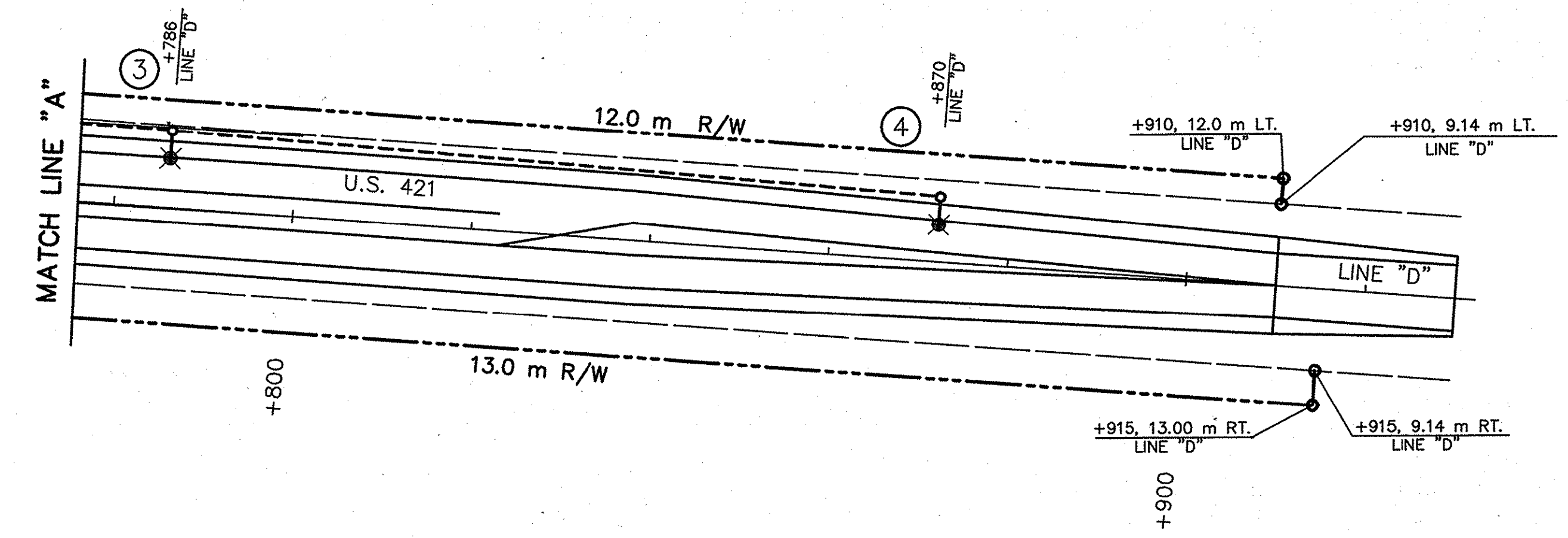
	RECOMMENDED FOR APPROVAL <i>Shawn W. K... 2/20/03</i> DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION HIGHWAY LIGHTING US 6 AT US 421 (SOUTH JCT.)	HORIZONTAL SCALE	BRIDGE FILE
	DESIGNED: GJR CHECKED: SWK		DRAWN: JVH CHECKED: GJR	1:500
			VERTICAL SCALE	DESIGNATION
			AS NOTED	985113W
			SURVEY BOOK	SHEETS
			16588	17 of 31
			CONTRACT	PROJECT
			R-26740	ST-212-4(008)



US 6/421 LIGHTING PLAN

LEGEND

- 400 W. H.P.S. LUMINAIRE MOUNTED ON A BREAKAWAY TRANSFORMER BASE
- 4-1/C NO. 4 CU. CONDUCTORS IN PLASTIC DUCT
- 4-1/C NO. 4 CU. CONDUCTORS IN PLASTIC DUCT IN 50 mm GALVANIZED STEEL CONDUIT
- 10.6m CLASS 5 WOOD POLE
- UG TEL- UNDERGROUND TELEPHONE LINES
- E.L.- AERIAL POWER LINE
- TELEPHONE CABINET
- PROPOSED RIGHT-OF-WAY
- 9.1 m STEEL STRAIN POLE & FOUNDATION
- LIGHTING HANDHOLE
- CABLE DUCT MARKER
- LUMINAIRE NUMBER



LUMINAIRE NO.	1	2	3	4	5	6
CONNECTION TYPE	1	3	2	1	1	1
CIRCUIT CONNECTION	R	B	R	B	R	B
POLE SETBACK (m)	6.0	3.6	3.6	3.6	6.0	3.6
MAST ARM LENGTH (m)	4.6	3.1	3.1	3.1	4.6	3.1
TOP FOUNDATION ELEVATION WITH RESPECT TO EDGE OF PAVEMENT	-0.22	-0.40	-0.50	-0.50	-0.16	-0.40
SETBACK FROM						
EDGE OF PAVEMENT	✓	✓	✓	✓	✓	✓
EDGE OF SHOULDER						
LUMINAIRE E.M.H.	12.2	12.8	12.8	12.8	12.2	12.8

NOTE:
SEE SHEET 17 FOR LIGHTING EAST AND WEST OF INTERSECTION LUMINAIRES 5&6

		RECOMMENDED FOR APPROVAL <i>Mark W. Klein</i> 2/20/03 DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION HIGHWAY LIGHTING US 6 AT US 421 (SOUTH JCT.)	HORIZONTAL SCALE 1:500 BRIDGE FILE
		DESIGNED: GJR CHECKED: SWK	DRAWN: JVH CHECKED: GJR	VERTICAL SCALE AS NOTED DESIGNATION 985113W
				SURVEY BOOK 16588 CONTRACT R-26740
				SHEETS of 31 PROJECT ST-212-4(008)

PAVEMENT QUANTITIES AND APPROACH TABLE

Table with columns: LOCATION, DESCRIPTION (APPROACH TYPE OR CLASS), WIDTH, LENGTH, RADII, DISTANCE BEYOND R/W LINE, SURFACE BEYOND R/W LINE (GRADE, EXCAVATION, CLEAR ZONE AT DRIVE), HMA (MAINLINE, SHOULDERS, APPROACHES), ASPHALT MATERIAL FOR (PRIME COAT, TACK COAT), COMPACTED AGGREGATE NO. 53, BASE (DEPTH 200 mm, 275 mm), COMPACTED AGGREGATE NO. 73 SURFACE (DEPTH 200 mm), REINFORCED CEMENT CONCRETE PAVEMENT (DEPTH 275 mm), SURFACE MILLING, REMARKS.

SHEET SIGN & POST SUMMARY

Table with columns: PLAN SHEET No. / LINE, SIGN LOCATION (STATION), SIGN CODE, SIGN SIZE (mm), ENCAPSULATED LENS METAL THICKNESS AND SIGN AREA (2.03, 2.54, 3.18), U CHANNEL (POST LENGTH (m), POST TYPE), SQUARE (50.8 x 50.8 x 2.66, 57.2 x 57.2 x 2.66), REMARKS.

RIPRAP AND SODDING SUMMARY TABLE

Table with columns: LOCATION, FROM STATION, TO STATION, RIPRAP DITCH (LEFT, MEDIAN, RIGHT), SODDING (FOR PAVED SIDE DITCHES, FOR DITCHES, FOR MEDIAN, FOR SHOULDER BREAK, SODDING AT BRIDGE CONE, TOTAL SODDING, NURSERY SODDING FOR LAWNS).

PAVEMENT MARKING SUMMARY

Table with columns: FROM STATION, TO STATION, LINE, EPOXY, SOLID, WHITE, 100 mm; LINE, EPOXY, SOLID, YELLOW, 100 mm; SNOWPLOWABLE RAISED PAVEMENT MARKER ONE-WAY WHITE; SNOWPLOWABLE RAISED PAVEMENT MARKER YELLOW/YELLOW; SNOWPLOWABLE RAISED PAVEMENT MARKER ONE-WAY YELLOW.

R/W MARKER TABLE

Table with columns: STATION & LINE, OFFSET (m). Includes list of stations like 1+500 'C' to 1+890 'C' and various offsets.

"DO NOT MOW OR SPRAY" SIGN TABLE

Table with columns: LOCATION, QUANTITY (EACH). Shows 1+800 'D' 10 m RT (1 EA) and 1+800 'E' 8 m RT (1 EA).

EROSION CONTROL TABLE

Table with columns: LOCATION, STATION TO STATION, LT, RT, TEMPORARY CHECK DAM STRAW BALES, TEMPORARY CHECK DAM REVEGETMENT, TEMPORARY CHECK DAM RIPRAP, DRAINAGE BARRIER AT SWALE, TEMPORARY SILT FENCE, SEDIMENT TRAP MEASURES, DITCH INLET PROTECTION.

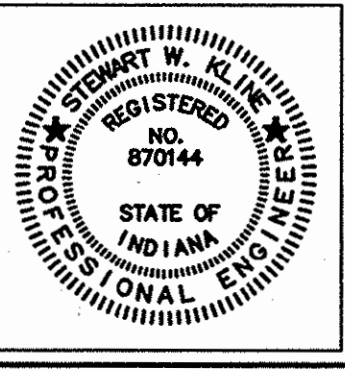
MONUMENT TABLE

Table with columns: STATION & LINE, DESCRIPTION, MONUMENT TYPE. Includes stations like 1+574.836 'C' and 1+651.211 'PR-D'.

REVISIONS

Table with columns: DATE, ITEM.

NOTES
REFER TO STANDARD DRAWING 802-SNGS-10 FOR ADDITIONAL SIGN & POST DETAILS.

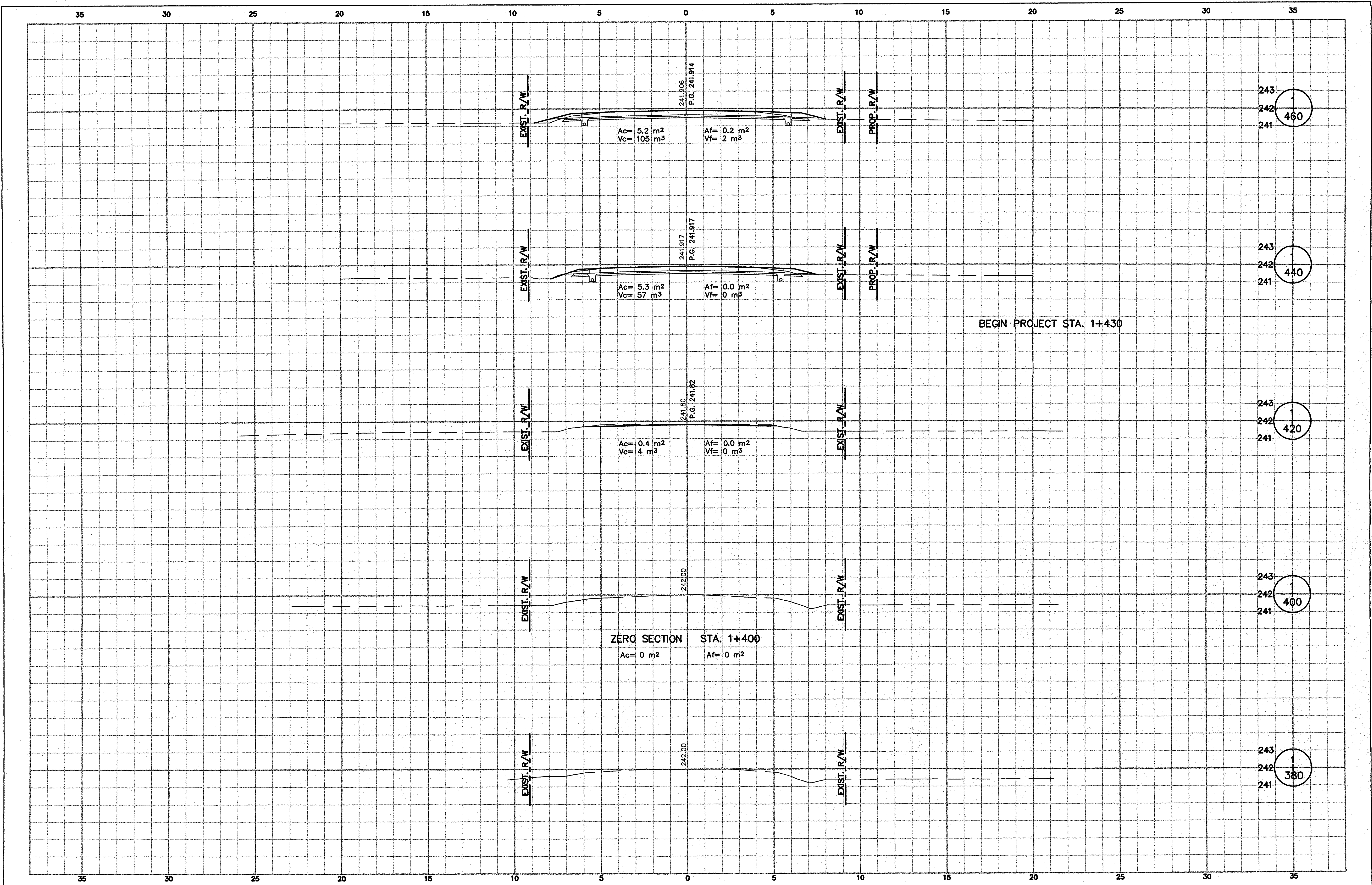


RECOMMENDED FOR APPROVAL: [Signature] DATE: 2/20/03 DESIGN ENGINEER
DESIGNED: GJR DRAWN: JVH
CHECKED: SWK CHECKED: GJR

INDIANA DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

Table with columns: HORIZONTAL SCALE, BRIDGE FILE, VERTICAL SCALE, DESIGNATION, SURVEY BOOK, SHEETS, CONTRACT PROJECT, ST-212-4(008).

R-26740



RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	DATE
DESIGNED: GJR	DRAWN: LTJ
CHECKED: SWK	CHECKED: GJR

INDIANA DEPARTMENT OF TRANSPORTATION	
CROSS SECTIONS	
LINE "C" 1+380 TO 1+460	

HORIZONTAL SCALE	BRIDGE FILE
1:100	
VERTICAL SCALE	DESIGNATION
1:100	8351130
SURVEY BOOK	SHEETS
16588	21 of 31
CONTRACT	PROJECT
R-26740	ST-212-4(008)

35 30 25 20 15 10 5 0 5 10 15 20 25 30 35

ZERO SECTION STA. 1+580

Ac= 0 m² Af= 42 m²
Vc= 60 m³ Vf= 5 m³

Ac= 6.0 m² Af= 0.5 m²
Vc= 111 m³ Vf= 9 m³

Ac= 5.1 m² Af= 0.4 m²
Vc= 99 m³ Vf= 10 m³

Ac= 4.8 m² Af= 0.6 m²
Vc= 96 m³ Vf= 12 m³

Ac= 4.8 m² Af= 0.6 m²
Vc= 99 m³ Vf= 11 m³

Ac= 5.1 m² Af= 0.5 m²
Vc= 103 m³ Vf= 7 m³

243
242
241
560

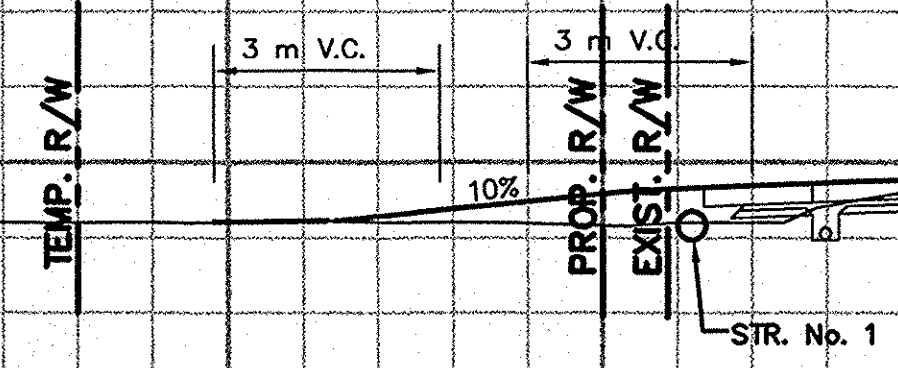
243
242
241
540

243
242
241
523.5

243
242
241
520

243
242
241
500

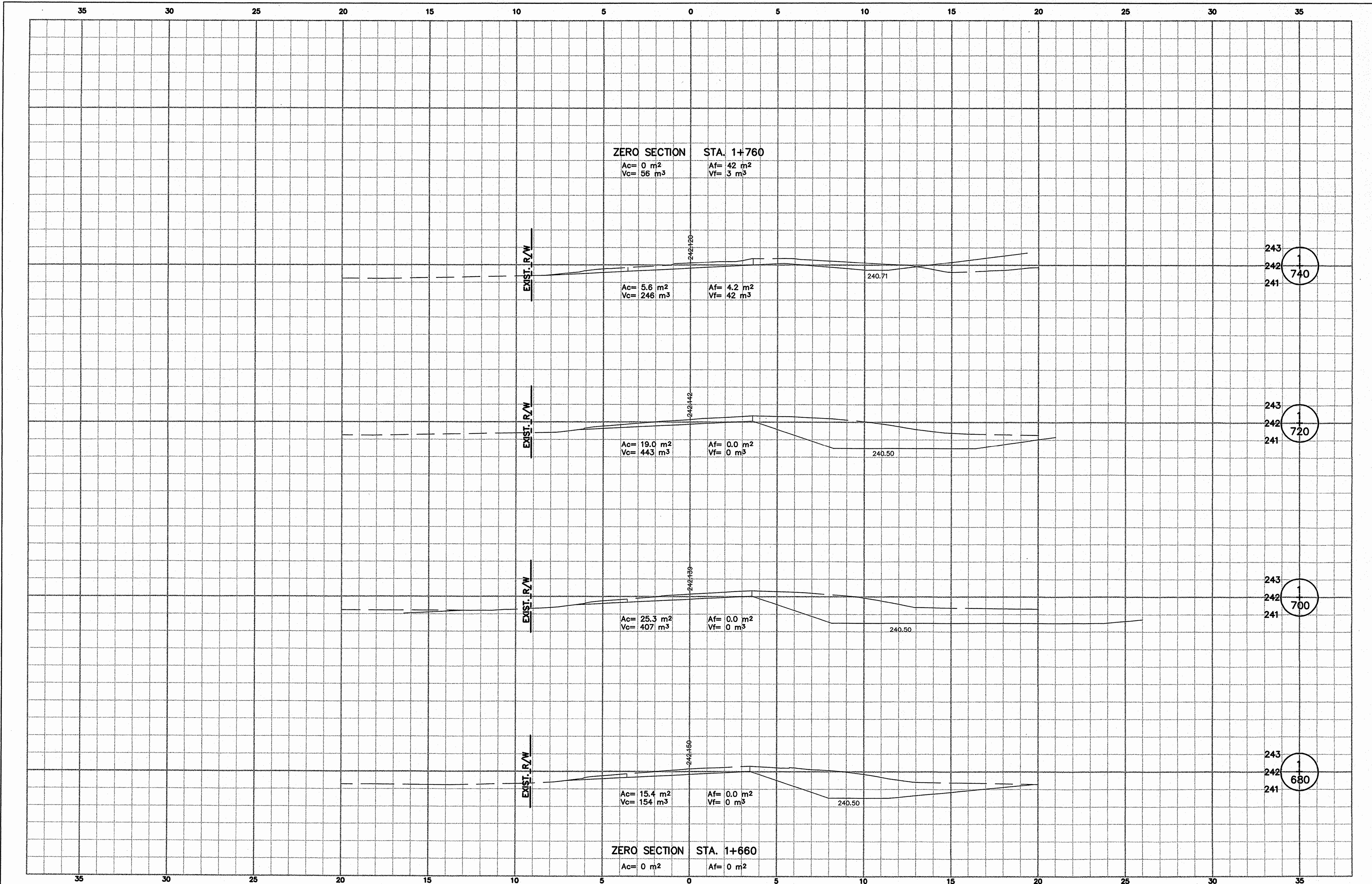
243
242
241
480



CLASS V DR. REQ'D. LT.

35 30 25 20 15 10 5 0 5 10 15 20 25 30 35

	RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION CROSS SECTIONS LINE "C" 1+480 TO 1+560	HORIZONTAL SCALE	BRIDGE FILE
					1:100	
					VERTICAL SCALE	DESIGNATION
					1:100	8351130
	DESIGNED: GJR	DRAWN: LTJ		SURVEY BOOK	SHEETS	
	CHECKED: SWK	CHECKED: GJR		16588	22 of 31	
				CONTRACT	PROJECT	
				R-26740	ST-212-4(008)	



243
242
241
1
740

243
242
241
1
720

243
242
241
1
700

243
242
241
1
680

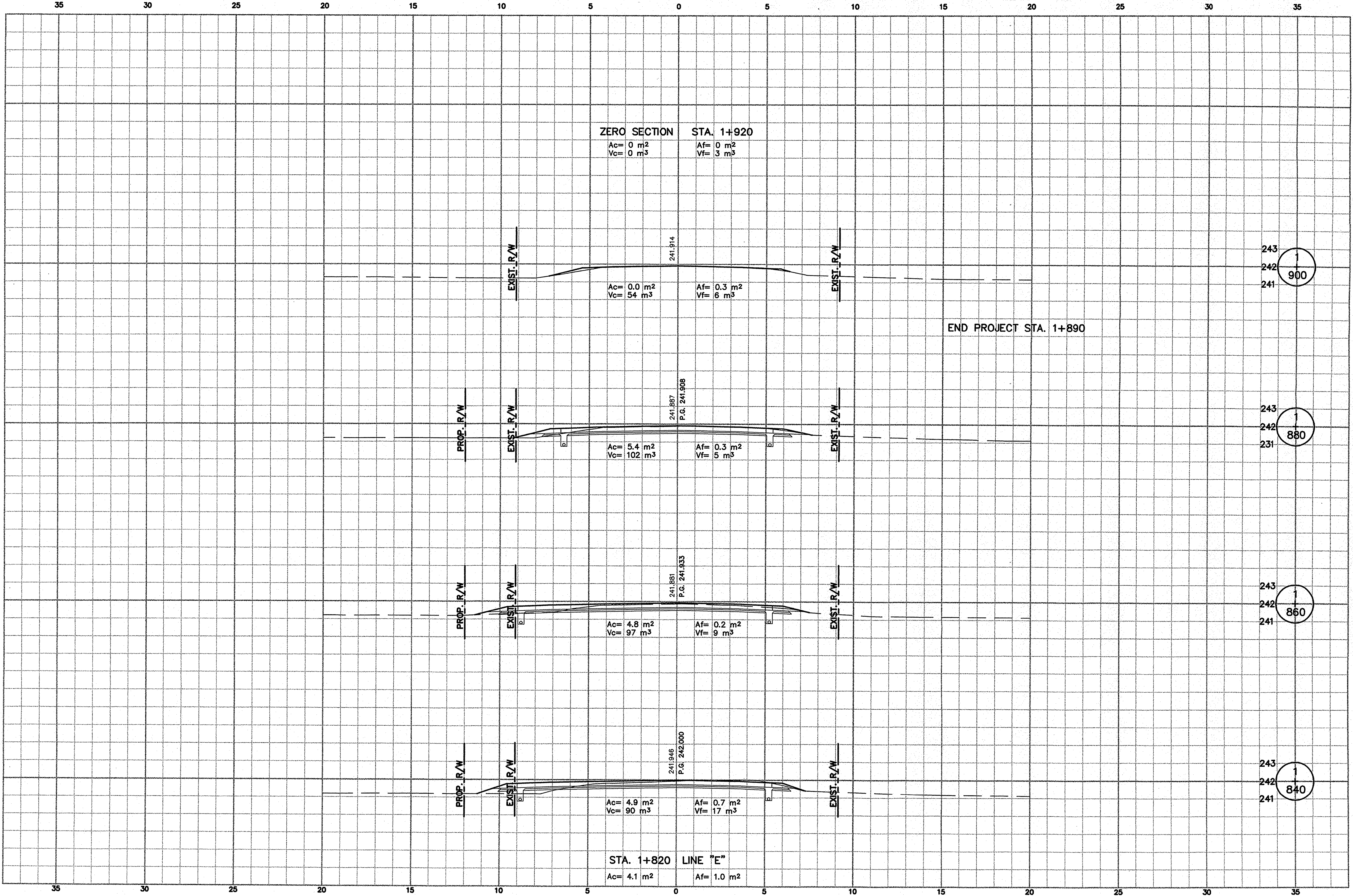
RECOMMENDED FOR APPROVAL _____
 DESIGN ENGINEER DATE _____

DESIGNED: GJR DRAWN: LTJ
 CHECKED: SWK CHECKED: GJR

INDIANA
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 LINE "C" 1+680 TO 1+740

HORIZONTAL SCALE	BRIDGE FILE
1:100	
VERTICAL SCALE	DESIGNATION
1:100	8351130
SURVEY BOOK	SHEETS
16588	23 of 31
CONTRACT	PROJECT
R-26740	ST-212-4(008)



243
242
241

900

243
242
231

880

243
242
241

860

243
242
241

840

RECOMMENDED FOR APPROVAL

DESIGNED: GJR DRAWN: LTJ

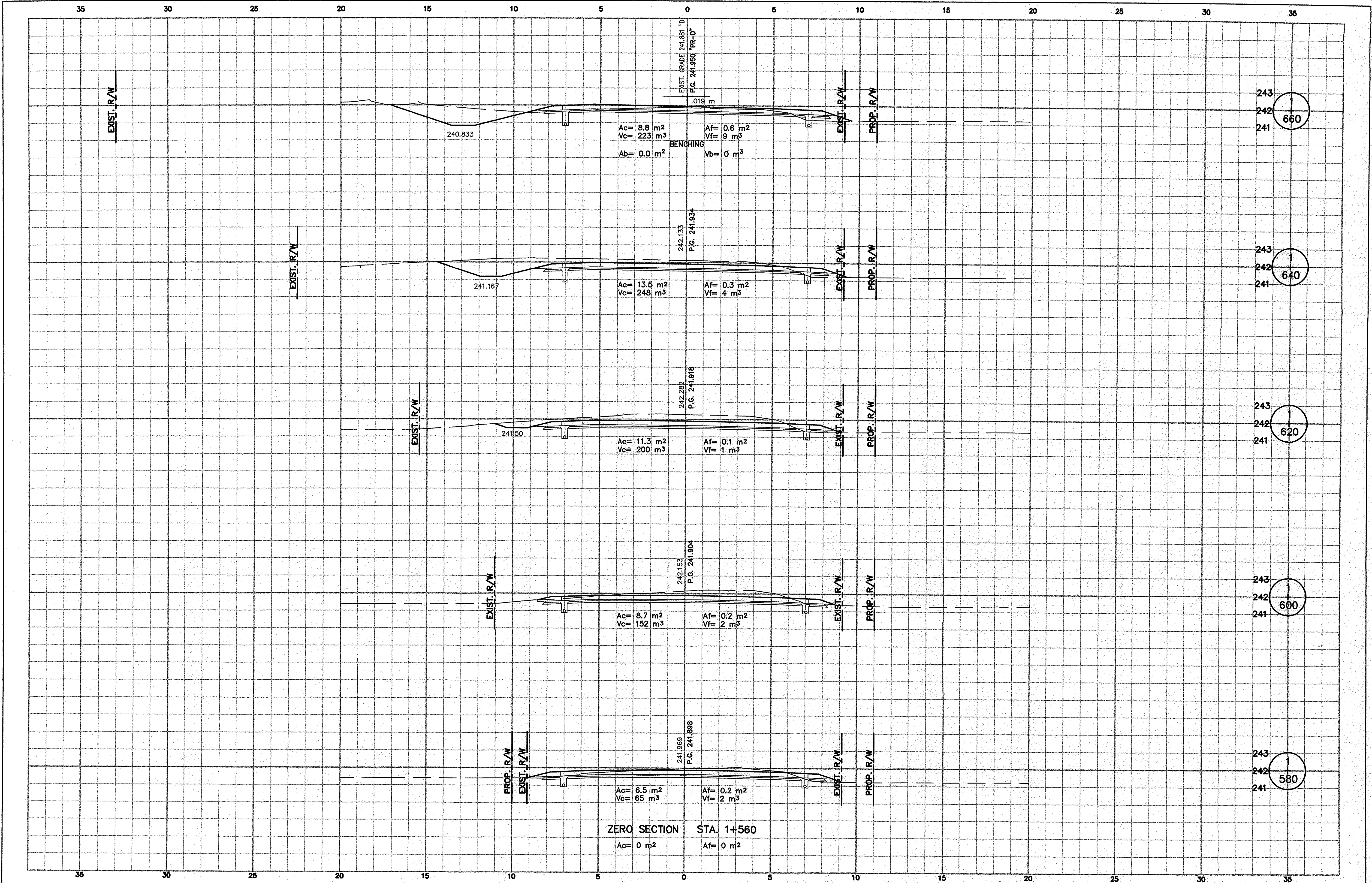
CHECKED: SWK CHECKED: GJR

DESIGN ENGINEER DATE

INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "C" 1+840 TO 1+900

HORIZONTAL SCALE 1:100	BRIDGE FILE
VERTICAL SCALE 1:100	DESIGNATION 8351130
SURVEY BOOK 16588	SHEETS 24 of 31
CONTRACT R-26740	PROJECT ST-212-4(008)



RECOMMENDED FOR APPROVAL

DESIGNED: GJR DRAWN: LTJ

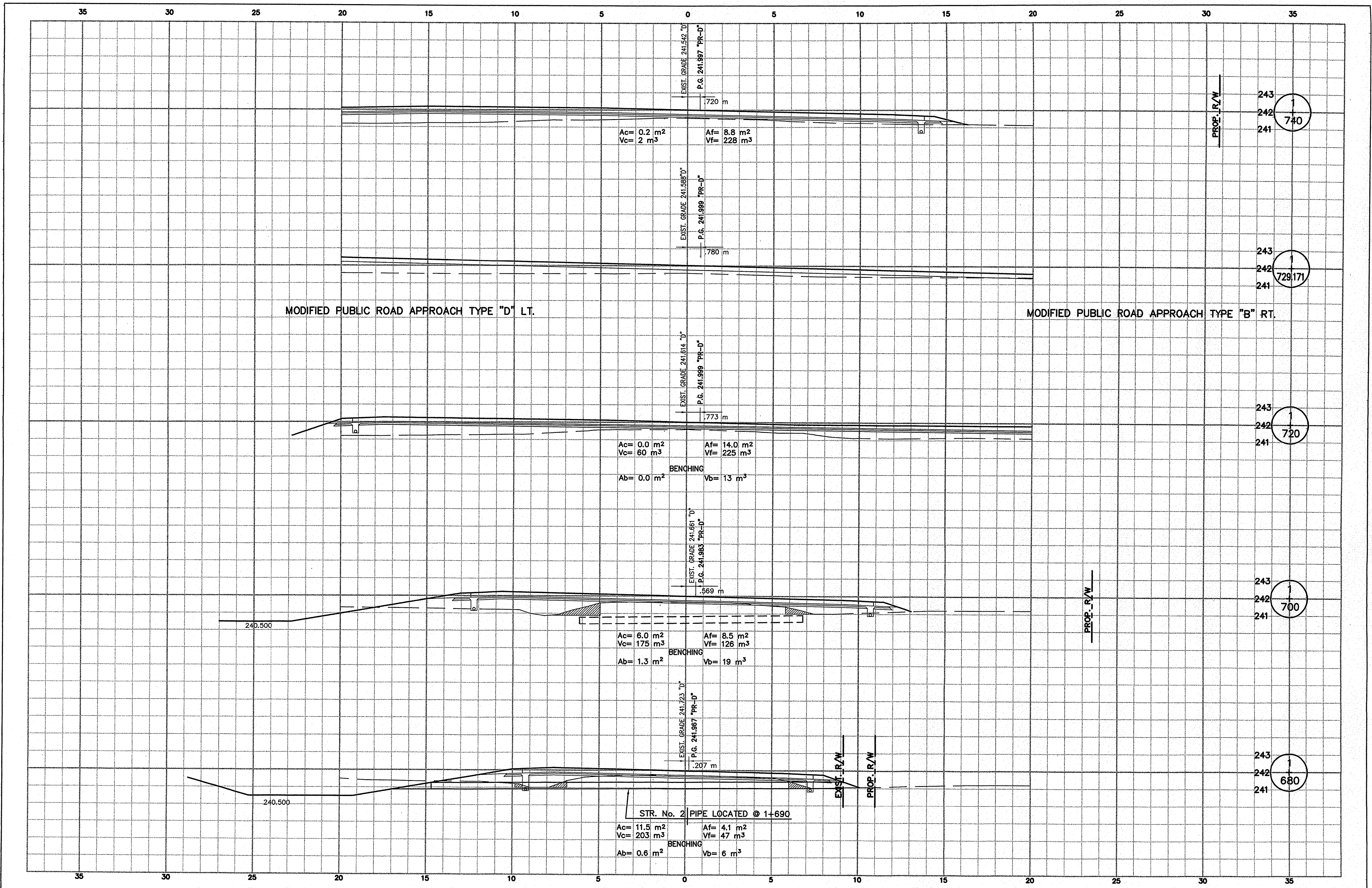
CHECKED: SWK CHECKED: GJR

DESIGN ENGINEER DATE

INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "D" 1+580 TO 1+660

HORIZONTAL SCALE 1:100	BRIDGE FILE
VERTICAL SCALE 1:100	DESIGNATION 8351130
SURVEY BOOK 16588	SHEETS 25 of 31
CONTRACT R-26740	PROJECT ST-212-4(008)



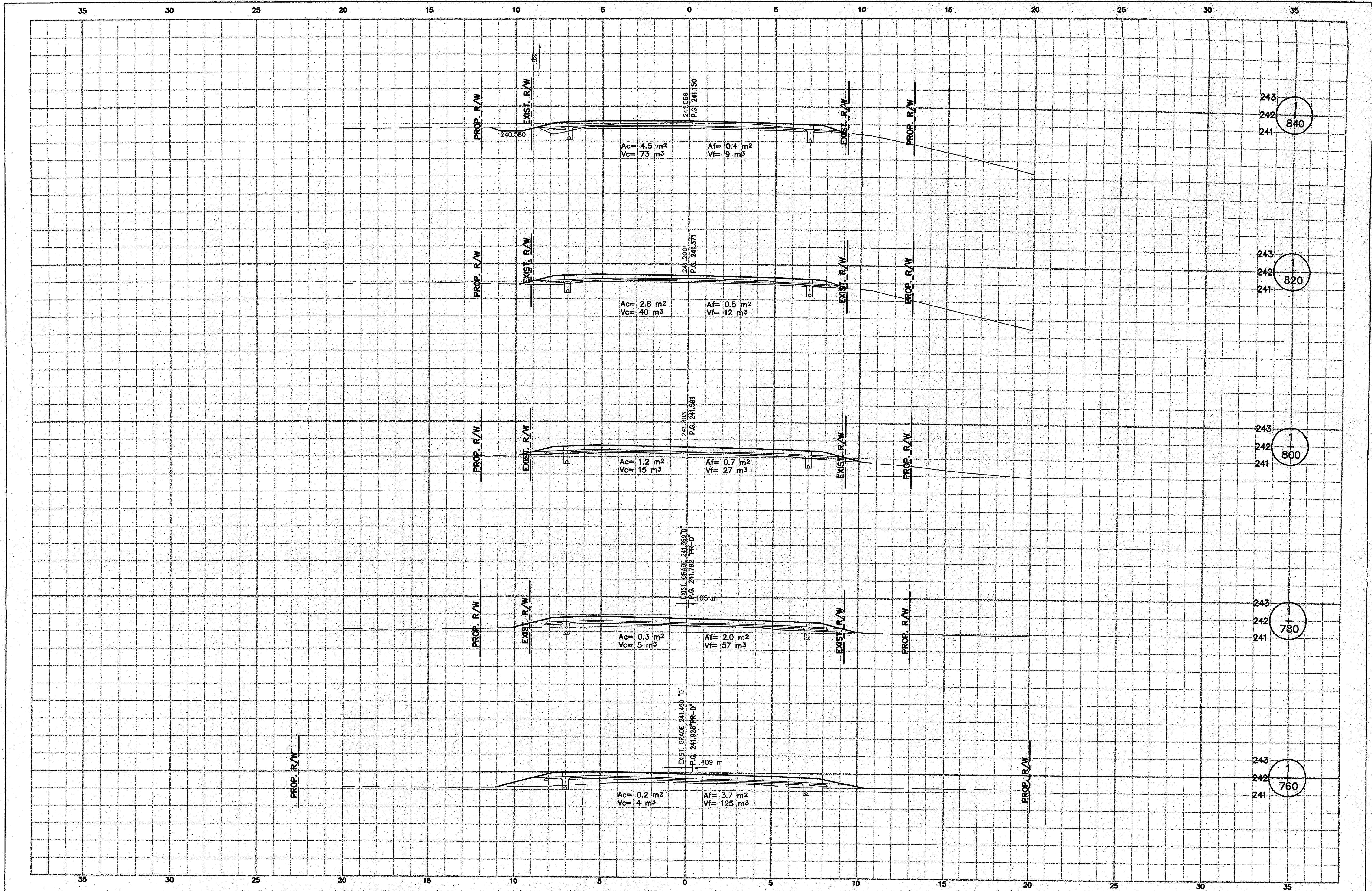
RECOMMENDED FOR APPROVAL _____
 DESIGN ENGINEER _____ DATE _____

DESIGNED: GJR _____ DRAWN: LTJ _____
 CHECKED: SWK _____ CHECKED: GJR _____

INDIANA
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 LINE "D" 1+680 TO 1+740

HORIZONTAL SCALE	BRIDGE FILE
1:100	
VERTICAL SCALE	DESIGNATION
1:100	8351130
SURVEY BOOK	SHEETS
16588	26 of 31
CONTRACT	PROJECT
R-26740	ST-212-4(008)



RECOMMENDED FOR APPROVAL

DESIGN ENGINEER _____ DATE _____

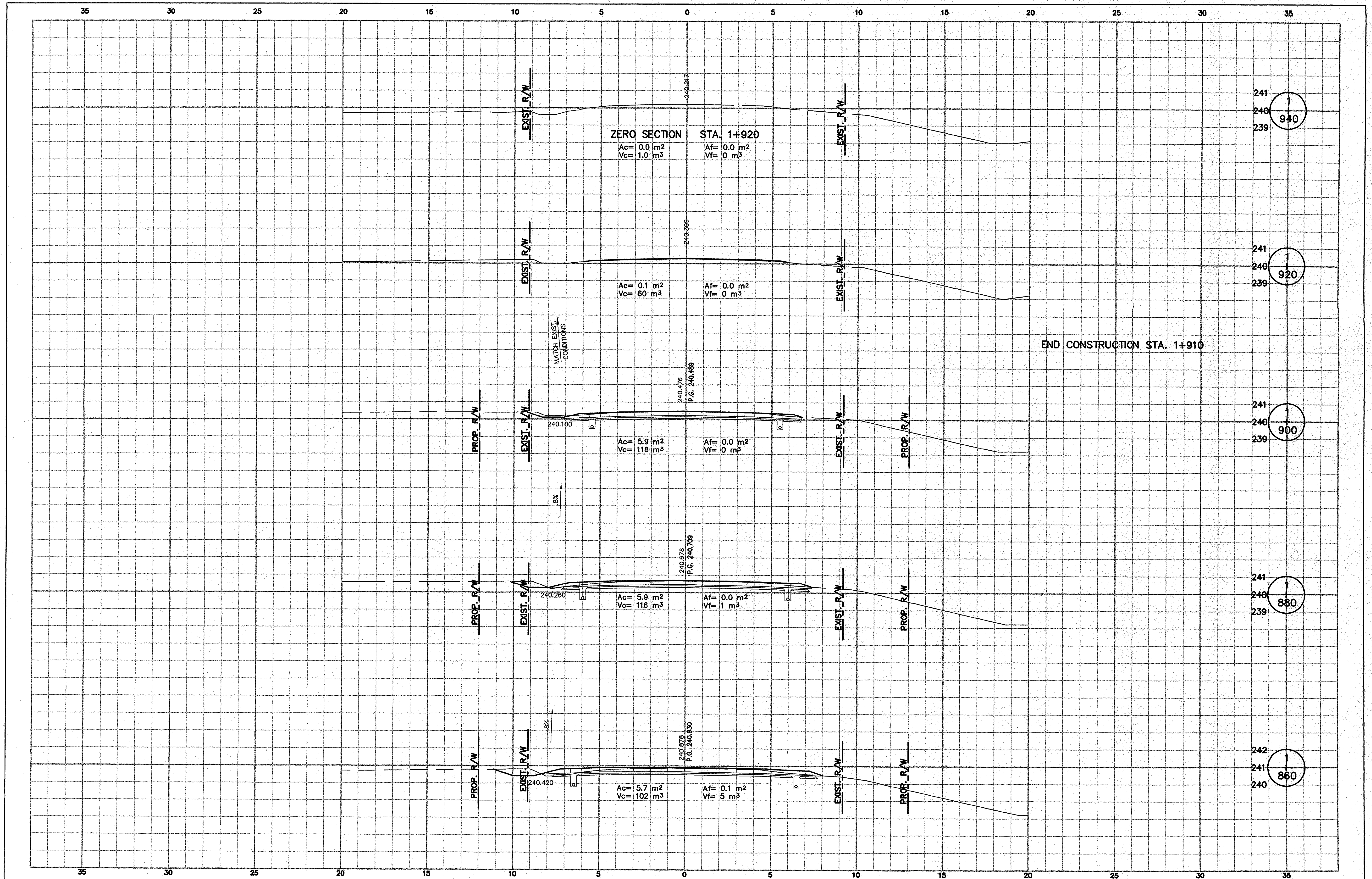
DESIGNED: GJR DRAWN: LTJ

CHECKED: SWK CHECKED: GJR

INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS LINE "D" 1+760 TO 1+840

HORIZONTAL SCALE	BRIDGE FILE
1:100	
VERTICAL SCALE	DESIGNATION
1:100	8351130
SURVEY BOOK	SHEETS
16588	27 of 31
CONTRACT	PROJECT
R-26740	ST-212-4(008)



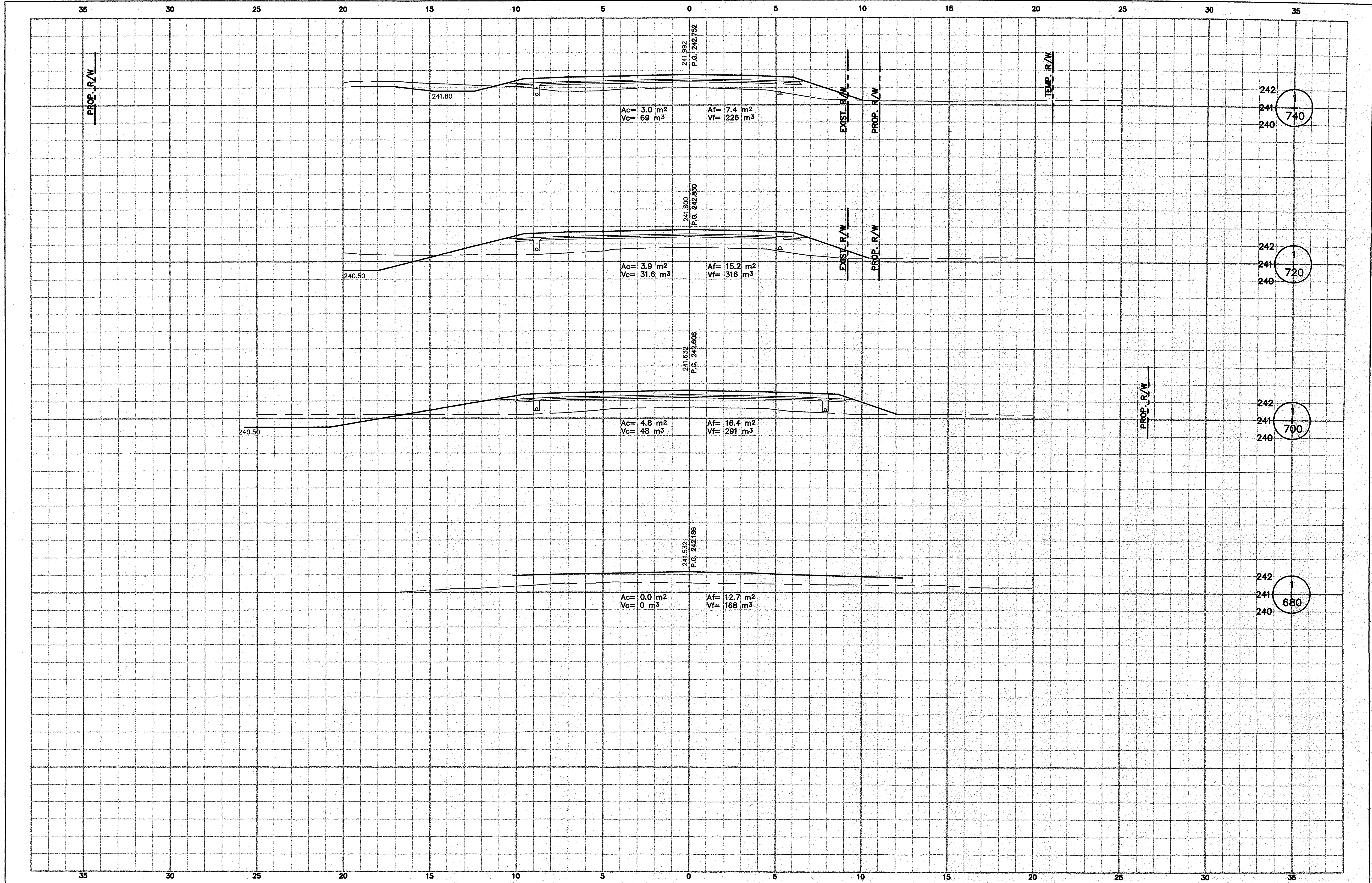
RECOMMENDED FOR APPROVAL _____
 DESIGN ENGINEER _____ DATE _____

DESIGNED: GJR _____ DRAWN: LTJ _____
 CHECKED: SWK _____ CHECKED: GJR _____

**INDIANA
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
LINE "D" 1+860 TO 1+940**

HORIZONTAL SCALE 1:100	BRIDGE FILE
VERTICAL SCALE 1:100	DESIGNATION 8351130
SURVEY BOOK 16588	SHEETS 28 of 31
CONTRACT R-26740	PROJECT ST-212-4(008)



242
241
240
740

242
241
240
720

242
241
240
700

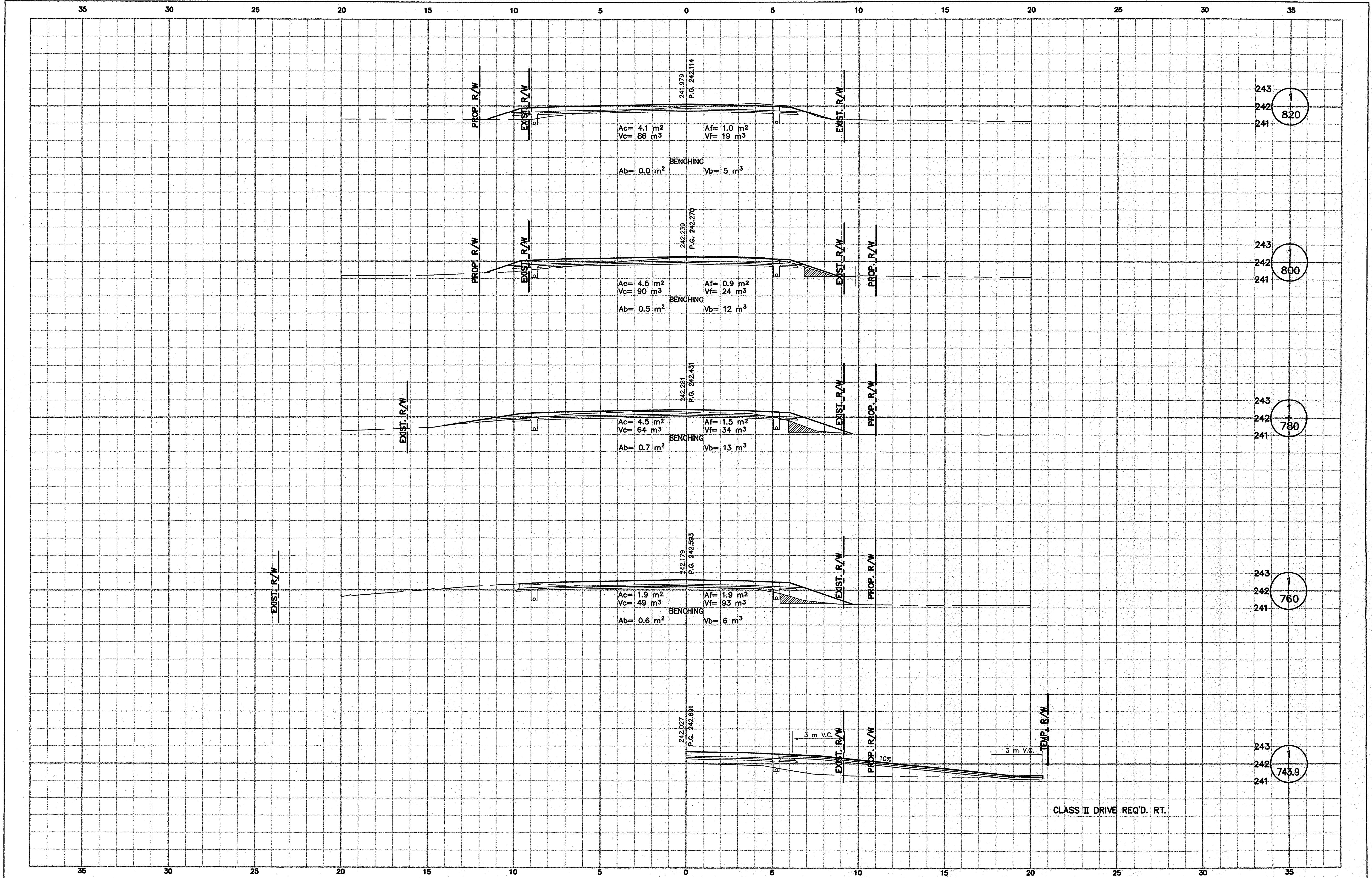
242
241
240
680

RECOMMENDED FOR APPROVAL _____
 DESIGN ENGINEER _____ DATE _____
 DESIGNED: GJR _____ DRAWN: LTJ _____
 CHECKED: SWK _____ CHECKED: GJR _____

INDIANA
 DEPARTMENT OF TRANSPORTATION
 CROSS SECTIONS
 LINE "E" 1+680 TO 1+740

HORIZONTAL SCALE 1:100
 VERTICAL SCALE 1:100
 SURVEY BOOK 16588
 CONTRACT R-26740

BRIDGE FILE
 DESIGNATION 8351130
 SHEETS 30 of 31
 PROJECT ST-212-4(008)



243
242
241
1
820

243
242
241
1
800

243
242
241
1
780

243
242
241
1
760

243
242
241
1
743.9

CLASS II DRIVE REQ'D. RT.

		RECOMMENDED FOR APPROVAL DESIGN ENGINEER _____ DATE _____		INDIANA DEPARTMENT OF TRANSPORTATION CROSS SECTIONS LINE "E" 1+743.9 TO 1+820	HORIZONTAL SCALE 1:100	BRIDGE FILE 8351130	
		DESIGNED: GJR CHECKED: SWK	DRAWN: LTJ CHECKED: GJR		VERTICAL SCALE 1:100	DESIGNATION 8351130	
					SURVEY BOOK 16588	SHEETS 31 of 31	
						CONTRACT R-26740	PROJECT ST-212-4(008)