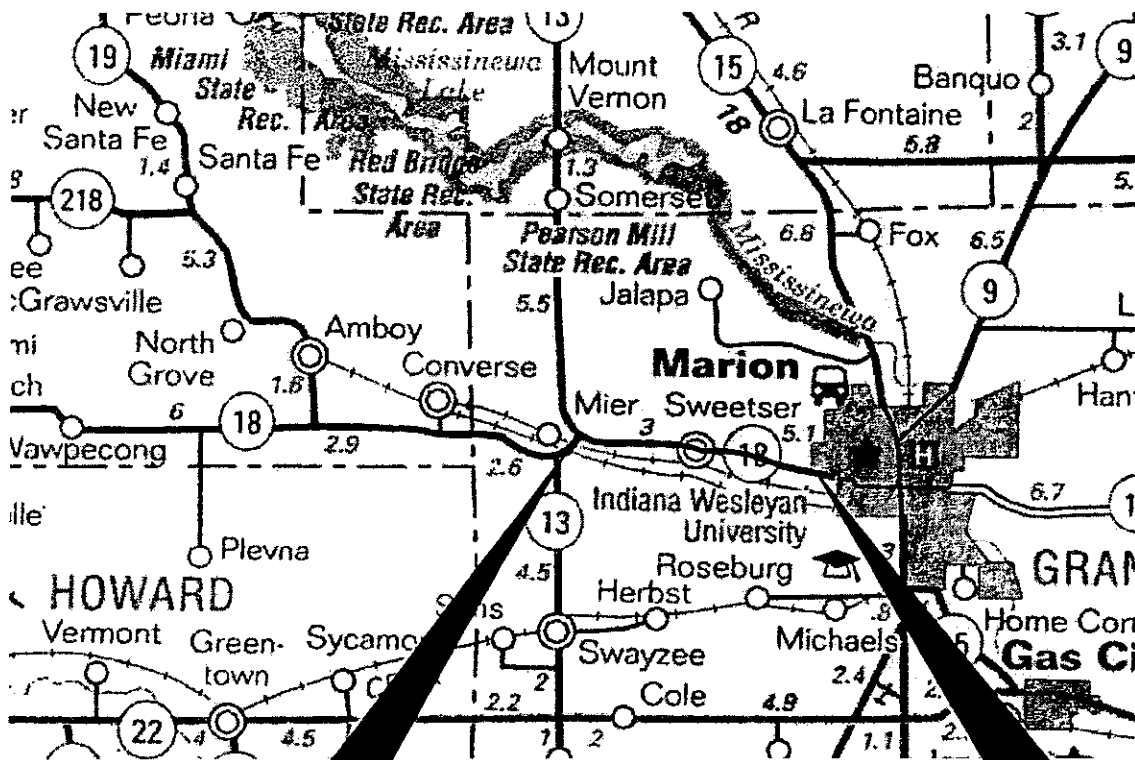


INDIANA
 DEPARTMENT OF TRANSPORTATION
 PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY
 ASPHALT RESURFACE

On SR 18, from SR 13 (W. Jct.) to Miller Ave., Marion, IN
 DES. NO. 990 4860

INCIDENTAL CONSTRUCTION AT CHAPEL PIKE + SR 15 IN MARION, IN

KDS
DESIGNED BY:
MAT
CHECKED BY:



BEGIN PROJECT
 RP 95+12
 STA. 34+676.4

END PROJECT
 RP 102+09
 STA. 46+266



BURGESS & NIPLE

CONTRACT: RS-24908
 DES. #: 990 4860
 TOTAL LENGTH: 11.6 km
 A.D.T. : 6,560 (2000)
 ESALS: 4,200,000



11/29/00
 DATE
Richard E. Hensley
 CERTIFIED BY:

INDIANA DEPARTMENT OF HIGHWAYS
 STANDARD SPECIFICATIONS DATED 1999
 TO BE USED WITH THESE PLANS

DATE
N. John Parsby
 Approved By: 12.19.00

CONSTRUCTION PLANS INDEX

<u>PAGE</u>	
1	TITLE SHEET
2	CONSTRUCTION PLANS INDEX
3	UTILITY LISTING
4-5	STANDARD DRAWINGS INDEX
6	TYPICAL SECTIONS
7-9	LEFT TURN LANE DETAILS
10	PLAN SHEET LEGEND
11-34	PLAN SHEETS
35-39	DETAIL SHEETS
40-56	SUMMARY TABLES
57-91	CROSS SECTION SHEETS

NOTE: THE STATIONING AND OFFSETS ARE FOR REFERENCE PURPOSES AND APPROXIMATE LOCATIONS OF EXISTING FEATURES ONLY, AND DO NOT REPRESENT THE RESULTS OF A ROUTE SURVEY AS DESCRIBED IN 865 IAC 1-12-20 THRU 1-12-25 (MINIMUM STANDARDS)

UTILITIES

ELECTRIC: American Electric Power
Jim Quinn
P.O. Box 60
Fort Wayne, IN 46801-0060
219-425-2294

PSI
Tina Quinlin
1000 E. Main Street
Plainfield, IN 46168
317-838-1513

GAS: Indiana Gas Company, Inc.
Ronald R. Barker
1630 N. Meridian Street
Indianapolis, IN 46202-1496
317-321-0599

TELEPHONE: Ameritech Indiana
Jim Tucker
308 E. Main Street
Crawfordsville, IN 47933
765-364-5014

Standard Drawing Index
Effective for Lettings between 1/1/2001 and 4/30/2001

Contract No.: **RS-24908**

Metric Drawings

SEC.	CODE	PAGE	DRAWING SUBJECT	DRAWING CONTENTS	Drawing Date
303	STRW	01	Shoulder Treatment Resurfacing Work	Shoulder Treatment For Resurfacing Work	4/3/95
601	GRET	06	Guardrail End Treatment	Grading At Guardrail End Treatments	9/1/98
601	GRET	08	Guardrail End Treatment	Grading At Guardrail End Treatments	9/1/98
601	GRET	09	Guardrail End Treatment	Grading At Guardrail End Treatments	9/1/98
601	WBGGA	01	W-Beam Guardrail Assemblies	W-Beam Guardrail Assemblies	1/2/01
601	WBGGA	02	W-Beam Guardrail Assemblies	W-Beam Guardrail Assemblies	1/2/01
601	WBGGA	03	W-Beam Guardrail Assemblies	W-Beam Guardrail Assemblies	9/1/98
601	WBGCA	01	W-Beam Guardrail Components	W-Beam Guardrail Components	4/3/95
601	WBGCA	02	W-Beam Guardrail Components	W-Beam Guardrail Components	5/1/00
601	WBGCA	03	W-Beam Guardrail Components	W-Beam Guardrail Components	1/3/00
604	SWCR	05	Sidewalk Curb Ramps	Curb Ramp Type C	6/3/96
605	CCCG	01	Combined Concrete Curb & Gutter	Combined Concrete Curb And Gutter	9/1/99
715	BKFL	07	Backfill	Pipe Structure Backfill Driveway Installations	1/2/98
715	BKFL	08	Backfill	Pipe Structure Backfill Driveway Installations	1/2/98
715	BKFL	09	Backfill	Pipe Structure Backfill	9/1/00
715	PHCL	01	Pipe Height of Cover Limits	Pipe Height Of Cover Limits	1/2/98
715	PHCL	02	Pipe Height of Cover Limits	Pipe Height of Cover Limits	1/2/98
715	PHCL	03	Pipe Height of Cover Limits	Pipe Height of Cover Limits	1/2/98
715	PHCL	04	Pipe Height of Cover Limits	Pipe Height of Cover Limits	1/2/98
715	PHCL	05	Pipe Height of Cover Limits	Pipe Height of Cover Limits	1/2/98
715	PHCL	06	Pipe Height of Cover Limits	Pipe Height of Cover Limits	1/2/98
715	PHCL	07	Pipe Height of Cover Limits	Pipe Height of Cover Limits	1/2/98
715	PHCL	08	Pipe Height of Cover Limits	Pipe Height of Cover Limits	1/2/98
715	PHCL	09	Pipe Height of Cover Limits	Pipe Height of Cover Limits	1/2/98
715	PHCL	10	Pipe Height of Cover Limits	Pipe Height of Cover Limits	1/2/98
715	PHCL	11	Pipe Height of Cover Limits	Pipe Height of Cover Limits	1/2/98
715	PHCL	12	Pipe Height of Cover Limits	Pipe Height of Cover Limits	1/2/98
715	PHCL	13	Pipe Height of Cover Limits	Pipe Height of Cover Limits	1/2/98
715	PHCL	14	Pipe Height of Cover Limits	Pipe Height of Cover Limits	1/2/98
715	PHCL	15	Pipe Height of Cover Limits	Pipe Height of Cover Limits	1/2/98
715	PHCL	16	Pipe Height of Cover Limits	Pipe Height of Cover Limits	1/2/98
715	PHCL	17	Pipe Height of Cover Limits	Pipe Height of Cover Limits	1/2/98
715	PHCL	18	Pipe Height of Cover Limits	Pipe Height of Cover Limits	1/2/98
715	PHCL	19	Pipe Height of Cover Limits	Pipe Height of Cover Limits	5/3/99
715	PHCL	20	Pipe Height of Cover Limits	Pipe Height of Cover Limits	1/2/98
715	PHCL	21	Pipe Height of Cover Limits	Pipe Height of Cover Limits	1/2/98
715	PHCL	22	Pipe Height of Cover Limits	Pipe Height of Cover Limits	1/2/98
715	PHCL	23	Pipe Height of Cover Limits	Pipe Height of Cover Limits	1/2/98
715	PIPE	01	Pipe	Pipe Classification Tables	1/2/98
715	PSLC	01	Pipe Service Life Criteria	Pipe Service Life Criteria	1/2/98
715	PSLC	02	Pipe Service Life Criteria	Pipe Service Life Criteria	1/2/98
715	PSLC	03	Pipe Service Life Criteria	Pipe Service Life Criteria	1/2/98
801	TCFO	02	Traffic Control Flagger Operations	Maintenance Of Traffic For Moving Operation	5/1/00
801	TCSN	01	Traffic Control Signs	Traffic Control Signs	7/3/95
801	TCSN	02	Traffic Control Signs	Traffic Control Signs	9/1/97
801	TCSN	04	Traffic Control Signs	Traffic Control Signs	9/1/97
801	TCSN	07	Traffic Control Signs	Traffic Control Signs	7/3/95
801	TCSN	08	Traffic Control Signs	Traffic Control Signs	7/3/95
801	TCSN	11	Traffic Control Signs	Construction Signs General Notes	5/1/00
801	TCSN	12	Traffic Control Signs	Sign Design Details	9/1/99
801	TCTC	05	Traffic Control Temporary Closure	Traffic Control For Daytime Lane Closure	1/2/01
802	SNGS	10	Sign Details	Steel Sign Posts	9/1/00

Standard Drawing Index
Effective for Lettings between 1/1/2001 and 4/30/2001

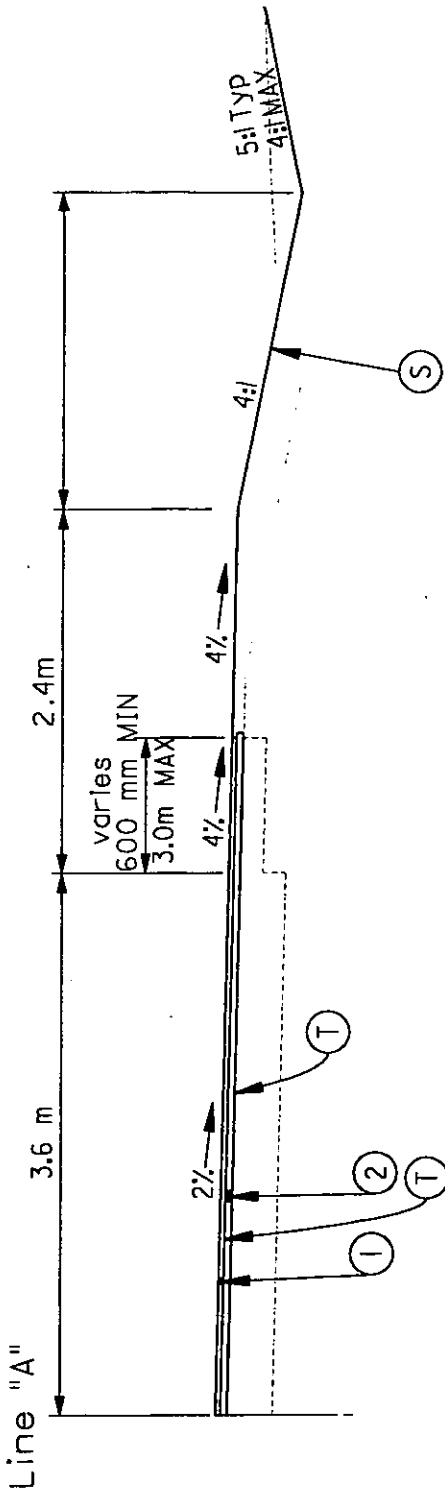
Contract No.: **RS-24908**

Metric Drawings

SEC. CODE	PAGE	DRAWING SUBJECT	DRAWING CONTENTS	Drawing Date	
802	SNPL	02	Sign Location	Horizontal And Vertical Sheet Sign Clearance	5/3/99
805	SGLI	01	Signal Loop Installation	Traffic Signal Loop Installation	5/1/98
805	SGLI	02	Signal Loop Installation	Traffic Signal Loop Installation	3/1/95
805	SGLI	03	Signal Loop Installation	Signal Loop Detector Housing Installation	3/1/95
805	SGLI	04	Signal Loop Installation	Traffic Signal Loop Splice	3/1/95
805	SGLI	05	Signal Loop Installation	Traffic Signal Loop Installation	3/1/95
805	SGLT	01	Signal Loop Tagging	Loop Tagging System	3/1/95
808	MKPM	01	Markings Pavement Transverse	Transverse Markings	3/1/95
808	MKPM	02	Markings Pavement Transverse	Transverse Markings	3/1/95
808	MKRM	09	Markings Raised Markers	Snowplowable Raised Pavement Markers	3/1/95
808	MKRM	10	Markings Raised Markers	Raised Pavement Marker Cast Metal Base Type 1	9/1/98

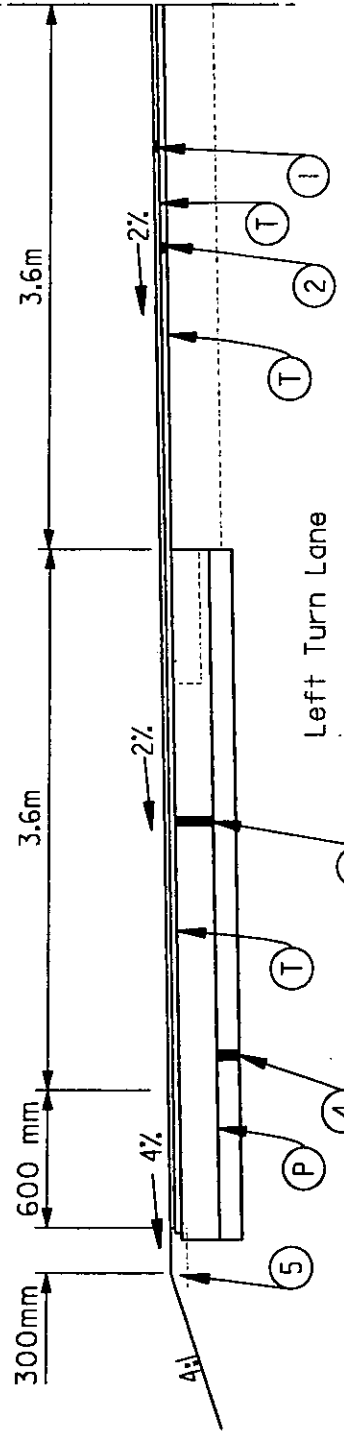
11

T.V.L.



Resurface (Half Section)

Line "A"



Left Turn Lane

LEGEND

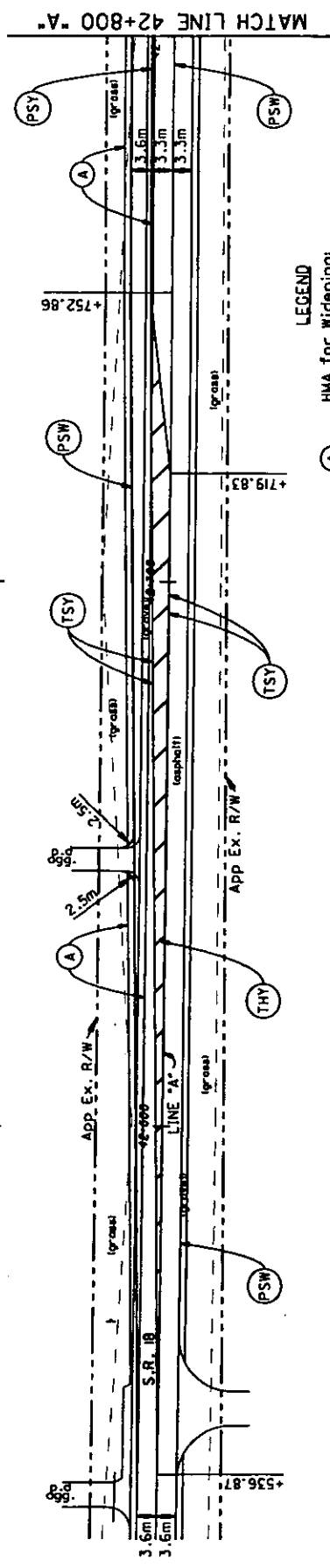
- ① 75 kg/m² OA/QC HMA Surface 9.5mm
- ② 105 kg/m² OA/QC Intermediate 19.0mm
- ③ 600 kg/m² HMA Base 25.0mm
- ④ 150mm Compacted Aggregate for Base, Type "0", #53
- ⑤ Compacted Aggregate for Shoulder, Type "0", #73
- P Asphalt Material for Prime Coat
- S Mulched Seed Mixture, R
- T Asphalt Material for Tack Coat

RECOMMENDED FOR APPROVAL	DESIGNED BY	DATE	INDIANA DEPARTMENT OF TRANSPORTATION	
	DESIGNED BY	DATE	TYPICAL SECTIONS	
DESIGNED BY	DATE	PROJECT	INDIANA DEPARTMENT OF TRANSPORTATION	
DESIGNED BY	DATE	PROJECT	TYPICAL SECTIONS	
DESIGNED BY	DATE	PROJECT	INDIANA DEPARTMENT OF TRANSPORTATION	
DESIGNED BY	DATE	PROJECT	TYPICAL SECTIONS	



+ 700

+ 600



LEGEND

- (A) HMA for Widening:
75 kg/m² OC/OA HMA Surface 9.5mm on
105 kg/m² OC/OA HMA Intermediate 19.0mm on
600 kg/m³ OC/OA HMA Base 25.0mm on
150mm Compacted Aggregate for Base, Type "0", #53
- (PSW) Line, Paint, Solid, White, 100mm
- (PSY) Line, Thermoplastic, Solid, Yellow, 200mm
- (THY) Transverse Markings, Thermoplastic, Solid, Yellow Crosshatch Line, 300mm
- (TSY) Line, Thermoplastic, Solid, Yellow, 200mm

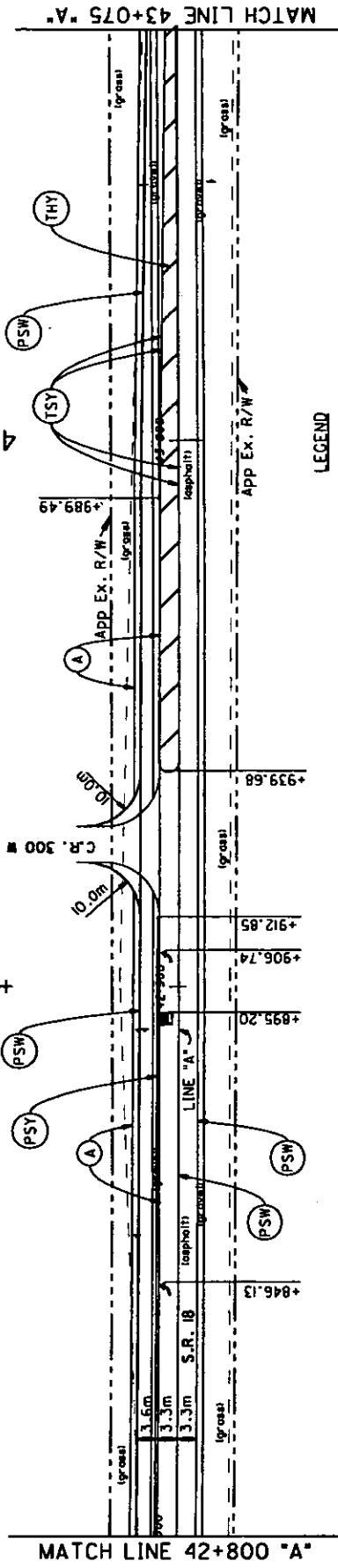
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RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED	CHECKED	DRAWN	CHECKED	DATE	DATE
DATE	DATE	DATE	DATE	DATE	DATE
INDIANA			PROJECT FILE		
DEPARTMENT OF TRANSPORTATION			CONTRACT NO.		
LEFT TURN LANE DETAILS			SHEET NO.		



43+000

006+900



LEGEND

- (A) HMA for Widening:
75 kg/m² OC/OA HMA Surface 9.5mm on
105 kg/m² OC/OA HMA Intermediate 19.0mm on
600 kg/m² OC/OA HMA Base 25.0mm on
150mm Compacted Aggregate for Base, Type "0", #53
- (PSW) Line, Paint, Solid, White, 100mm
- (PSY) Line, Thermoplastic, Solid, Yellow, 200mm
- (THY) Transverse Markings, Thermoplastic, Solid, Yellow Crosshatch Line, 300mm
- (TSY) Line, Thermoplastic, Solid, Yellow, 200mm
- ☐ Pavement Message Markings, Thermoplastic, Word (ONLY)

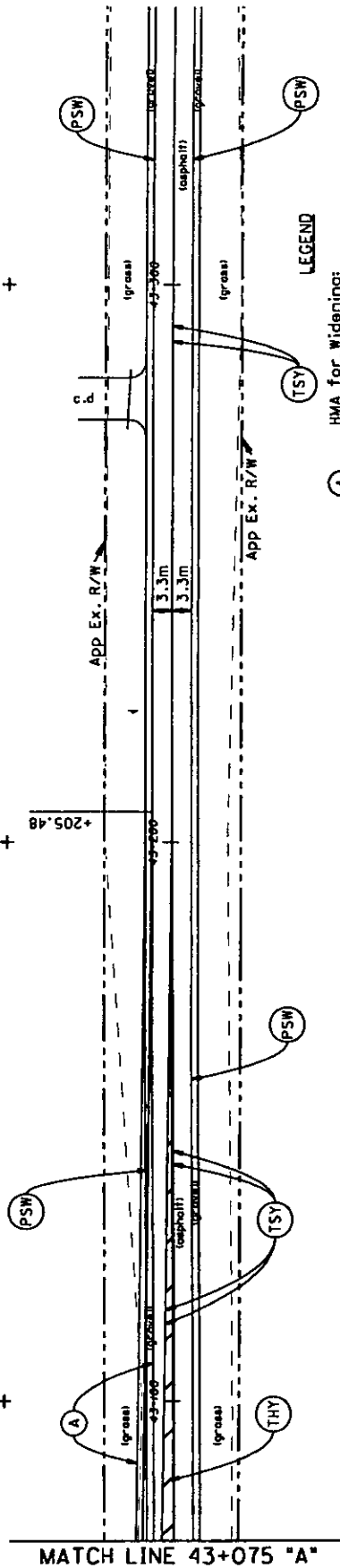
RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED	CHECKED	DATE	CHECKED	DATE	DATE
DESIGNED	CHECKED	DATE	CHECKED	DATE	DATE
INDIANA DEPARTMENT OF TRANSPORTATION			LEFT TURN LANE DETAILS		
HORIZONTAL SCALE		VERTICAL SCALE		DESIGNATION	
1"=40'		1"=10'		WORKING	
SURVEY		DATE		SHEET	
CONTRACT		NO.		PROJECT	
E-1000		-		-	



+ 300

+ 200

+ 100



LEGEND

- (A) HMA for Widening:
75 kg/m² OC/OA HMA Surface 9.5mm on
105 kg/m² OC/OA HMA Intermediate 19.0mm on
600 kg/m² OC/OA HMA Base 25.0mm on
150mm Compacted Aggregate for Base, Type "0", #53
- (PSW) Line, Point, Solid, White, 100mm
- (TSY) Line, Thermoplastic, Solid, Yellow, 100mm
- (THY) Transverse Markings, Thermoplastic, Solid, Yellow Crosshatch Line, 300mm
- (PSY) Line, Thermoplastic, Solid, Yellow, 200mm

MATCH LINE 43+075 "A"

RECOMMENDED FOR APPROVAL		DESIGN SCALE		PROJECT FILE	
DATE	BY	DATE	BY	DATE	BY
INDIANA DEPARTMENT OF TRANSPORTATION			PROJECT NO.		
LEFT TURN LANE DETAILS			SHEET NO.		
			CONTRACT NO.		
			PROJECT NO.		

LEGEND

— Full Depth Asphalt Patching:

75 kg/m² OC/OA HMA Surface, 9.5mm on

105 kg/m² OC/OA HMA Intermediate 19.0mm on

600 kg/m² HMA Base 25.0mm



Variable Depth Asphalt Surface Milling



Pavement Message Markings, Thermoplastic, Lane Indication Arrow



Pavement Message Markings, Thermoplastic, Word (ONLY)



Existing Sheet Sign



Construction Sign, Type as Indicated



Transverse Marking, Thermoplastic, Stop Line, 600mm



Line, Thermoplastic, Solid, Yellow, 100mm



Line, Paint, Solid, White, 100mm



Transverse Markings, Thermoplastic, Solid, Yellow Crosshatch Line, 300mm



Line, Thermoplastic, Broken, Yellow, 100mm



Transverse Marking, Thermoplastic, Crosswalk Line, 150mm

2x Indicates Double Yellow Line

NOTE: III, 312.5 m of 25mm Surface Milling, Asphalt is required along SR 18 and not shown in these plans.

NOTE: Undistributed Quantities for Undersealing are as follows:
 Drilled Hole for Underseal 600 EACH
 Asphalt for Underseal 32 Mg
 Locations for undersealing will be provided by the Division of Research

NOTE: Earthwork includes 3326.5m³ of cut and 21055.8m³ of fill +25%, which requires 12729.25m³ of Borrow.

MATCH LINE 34+750

BEGIN PROJECT
STA. 34+676.4

Begin Paving Exception
Sta. 34+724.1

MATCH LINE 34+500



MATCH LINE 35+000

(PSW)

S.R. 13

+886

+926

(PSW)

+918

(PSW)

2X (PSY)

+877

+852

Const. Limits

Const. Limits

XG20-1

XW20-2

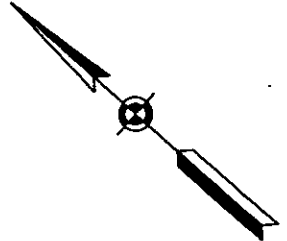
XW20-1

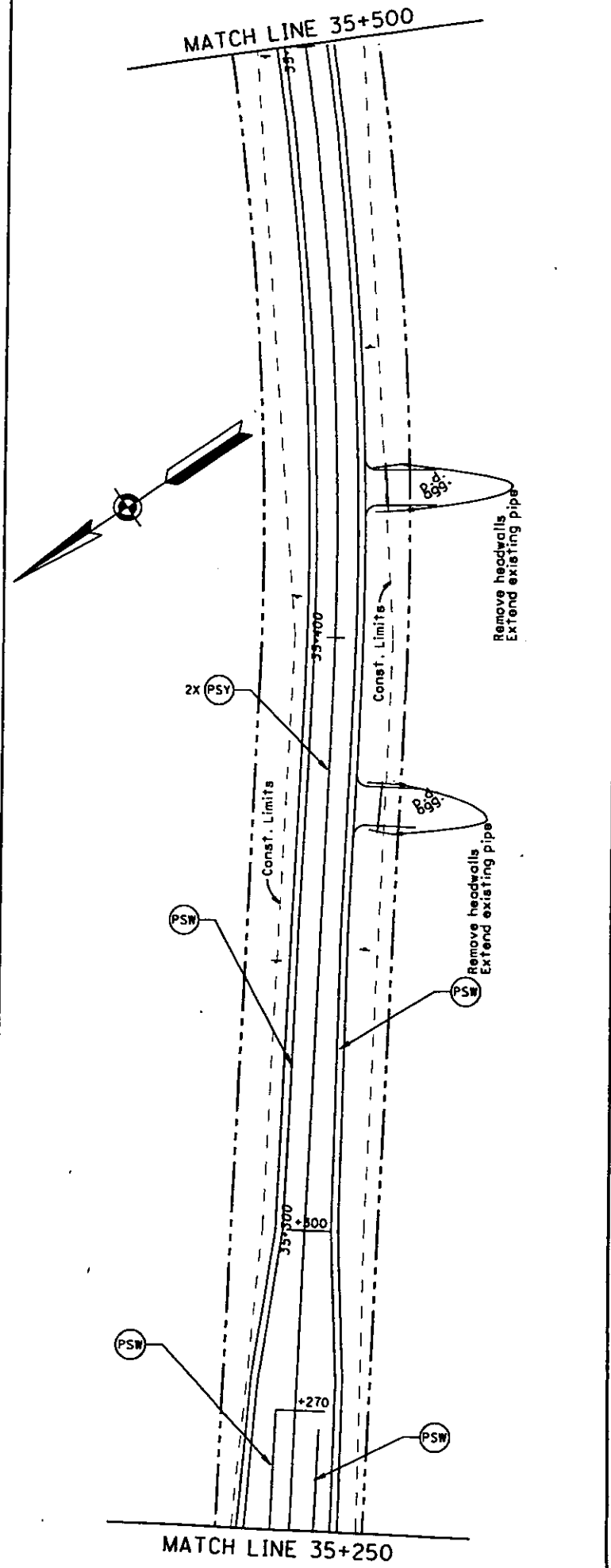
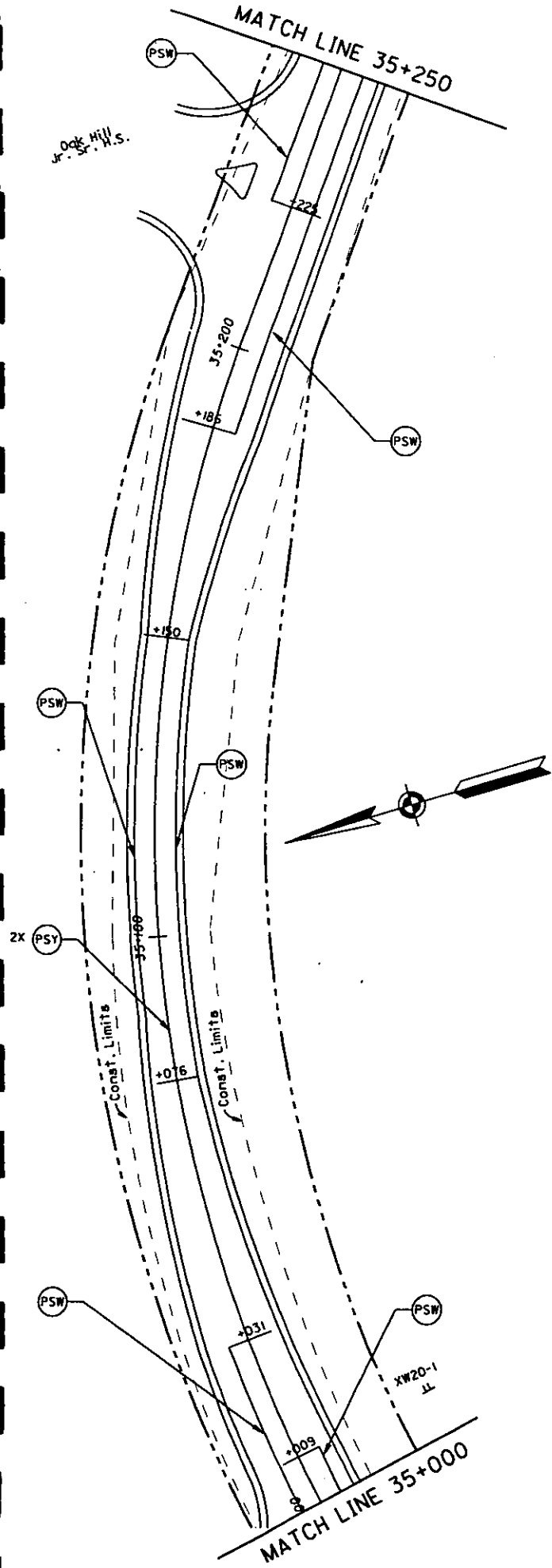
TXG20-1

TXW20-1

End Paving Exception
Sta. 34+750.8

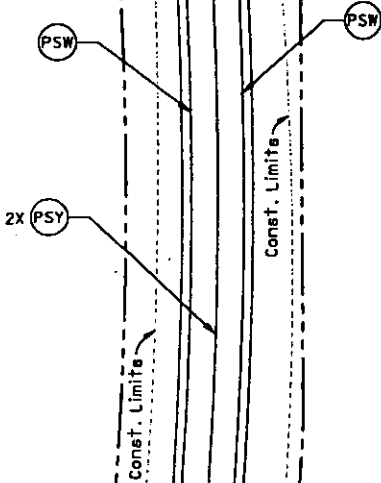
MATCH LINE 34+750





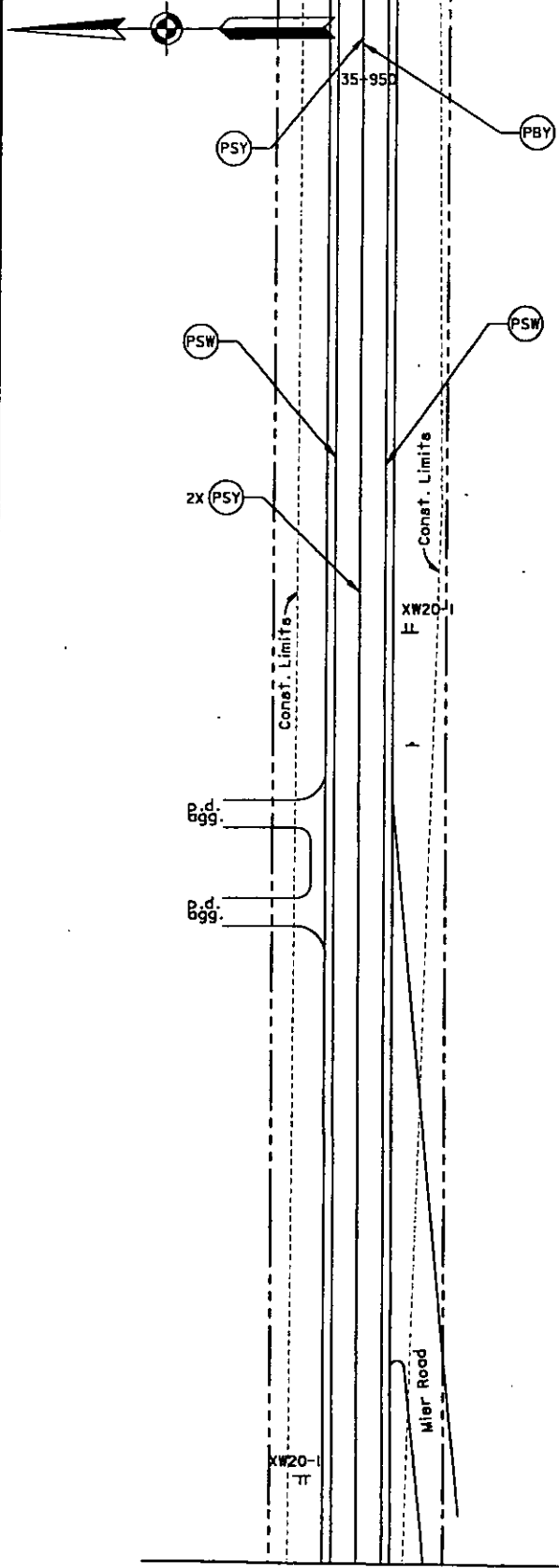
MATCH LINE 35+750

B.d.
Bgg.



MATCH LINE 35+500

MATCH LINE 36+000



MATCH LINE 35+750

MATCH LINE 36+250

MATCH LINE 36+500

36+250

(PBY)

(PSY)

(PSW)

Const. Limits

(PBY)

(PSW)

Const. Limits



MATCH LINE 36+000

(PSW)

(PBY)

XW20-1

C.R. 700 W.

C.R. 700 W.

guardrail--Adjust Height

New C.R.E.T.
Type 05 Req'd

(PSW)

Const. Limits

XW20-1

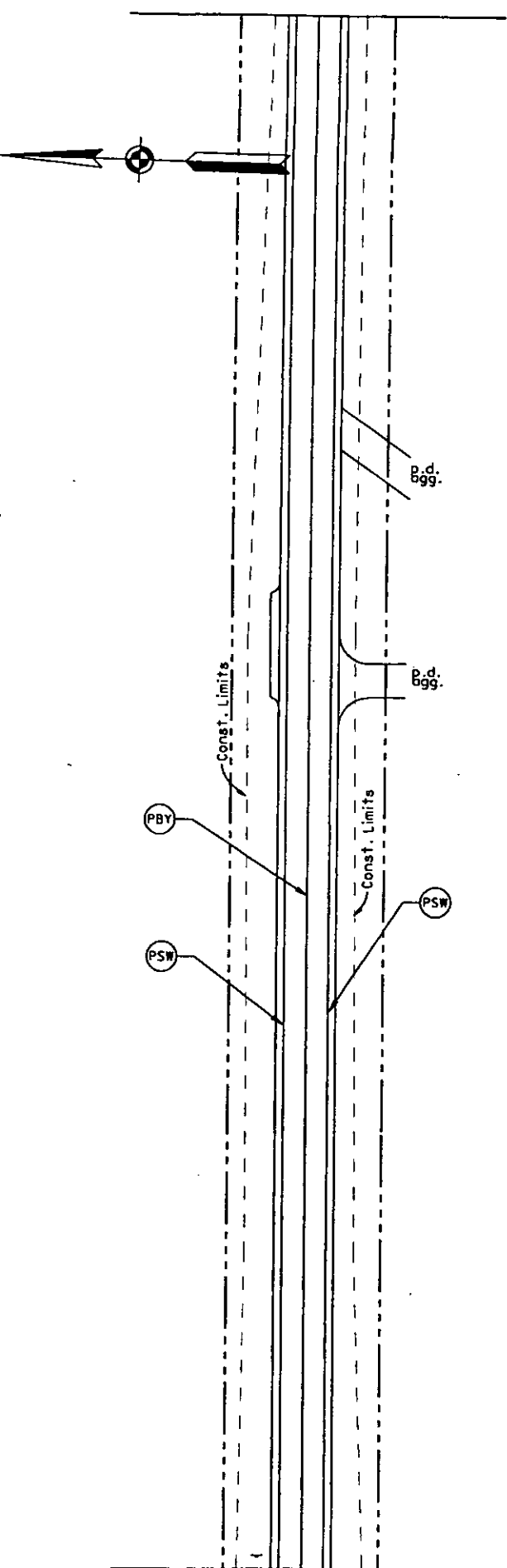
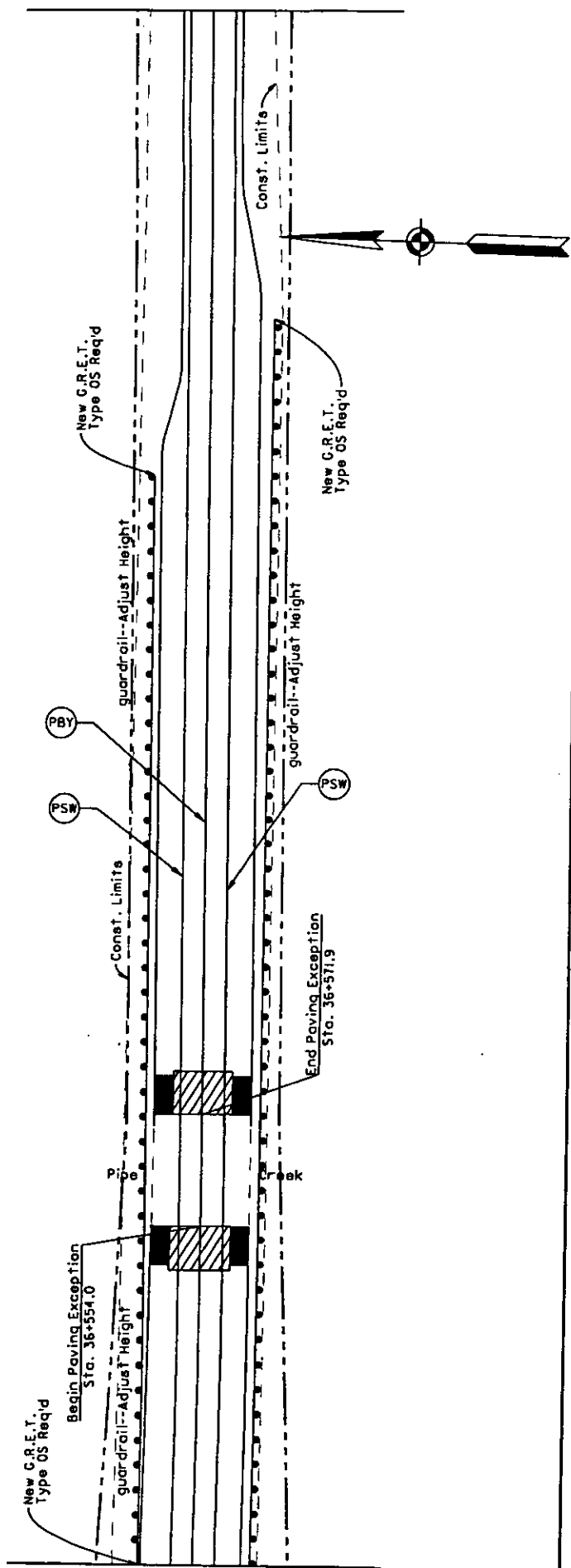
Const. Limits



MATCH LINE 36+250

MATCH LINE 36+750

MATCH LINE 37+000



MATCH LINE 36+500

MATCH LINE 36+750

MATCH LINE 37+250

MATCH LINE 37+500

B.d. Egg.

B.d. Egg.

B.d. Disp.

Const. Limits

PBY

PSW

PSW

Const. Limits

Farm Drive

MATCH LINE 37+000

Const. Limits

Const. Limits

p.d. aggregate

PBY

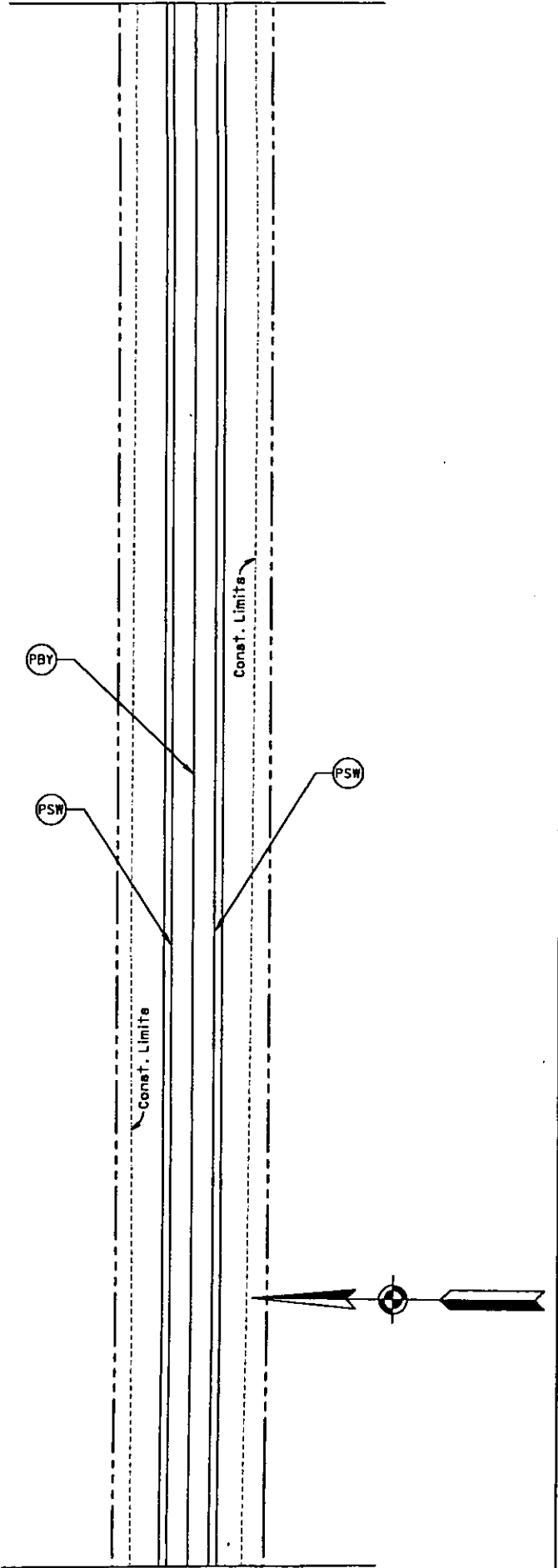
PSW

PSW

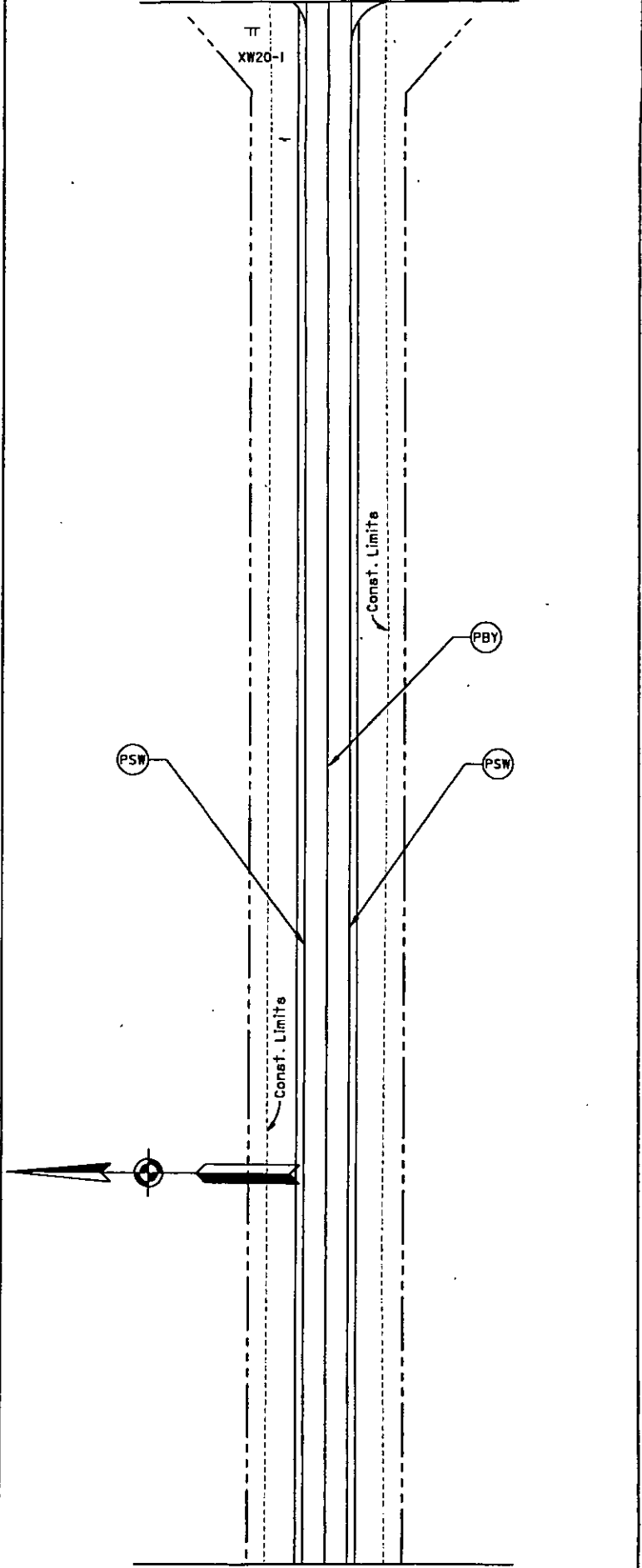
MATCH LINE 37+250

MATCH LINE 37+750

MATCH LINE 38+000



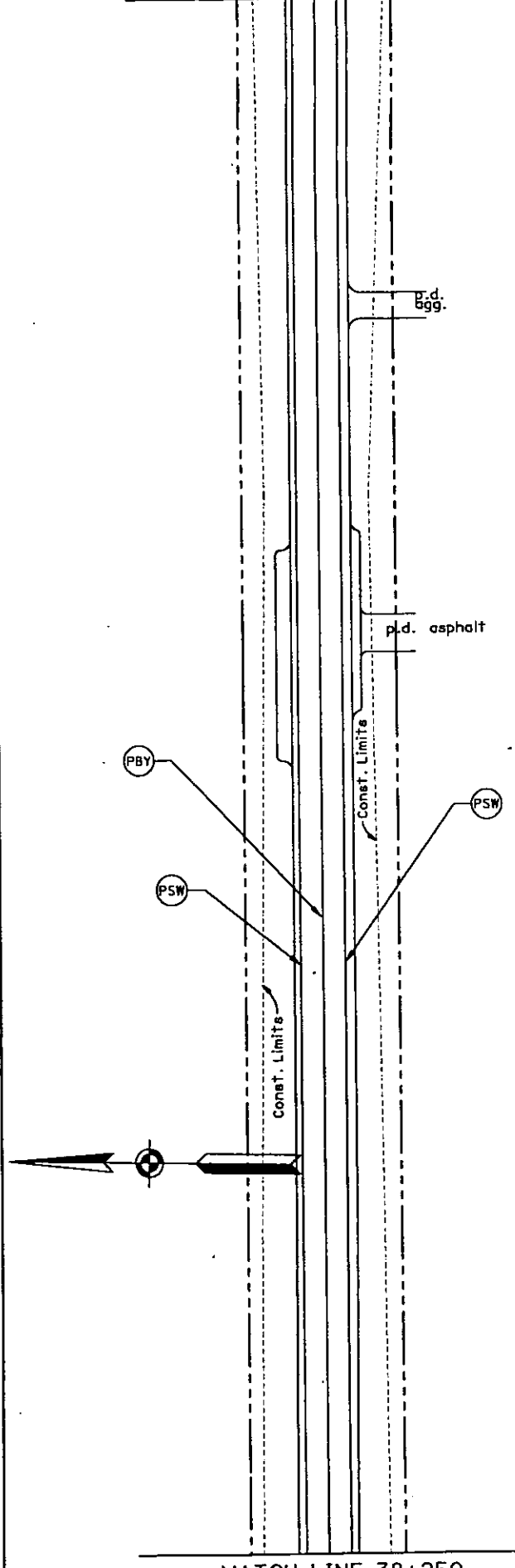
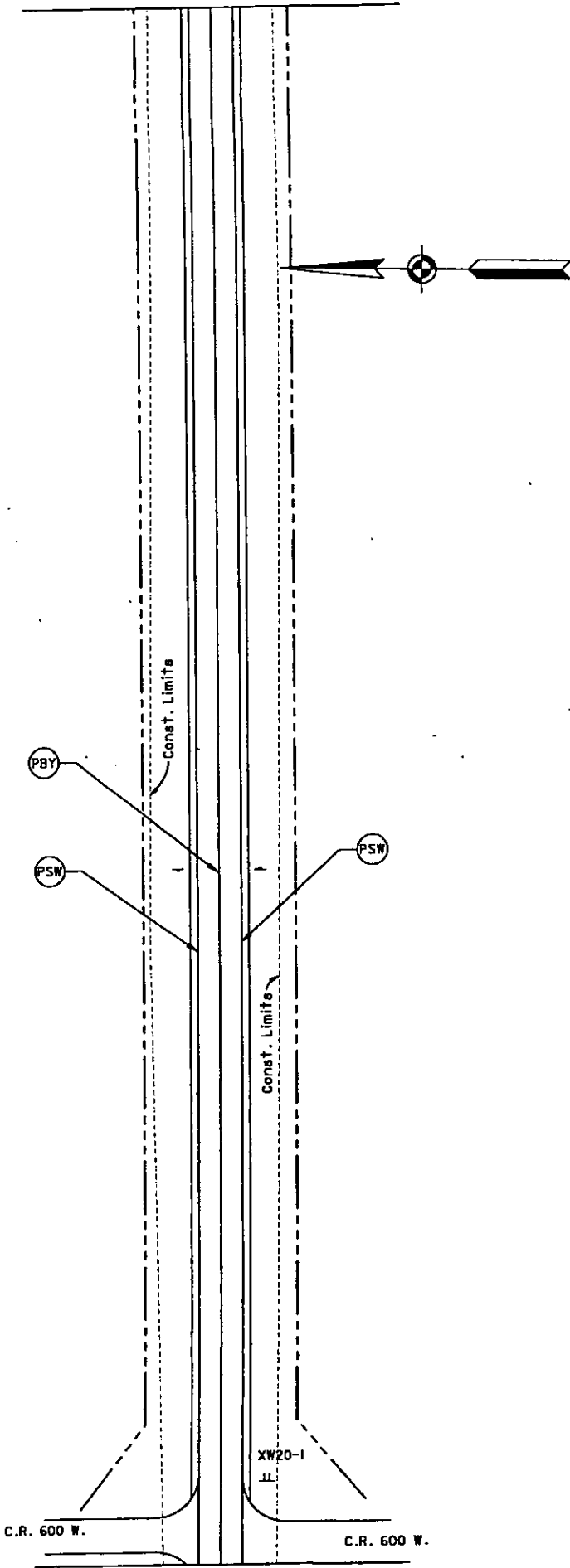
MATCH LINE 37+500



MATCH LINE 37+750

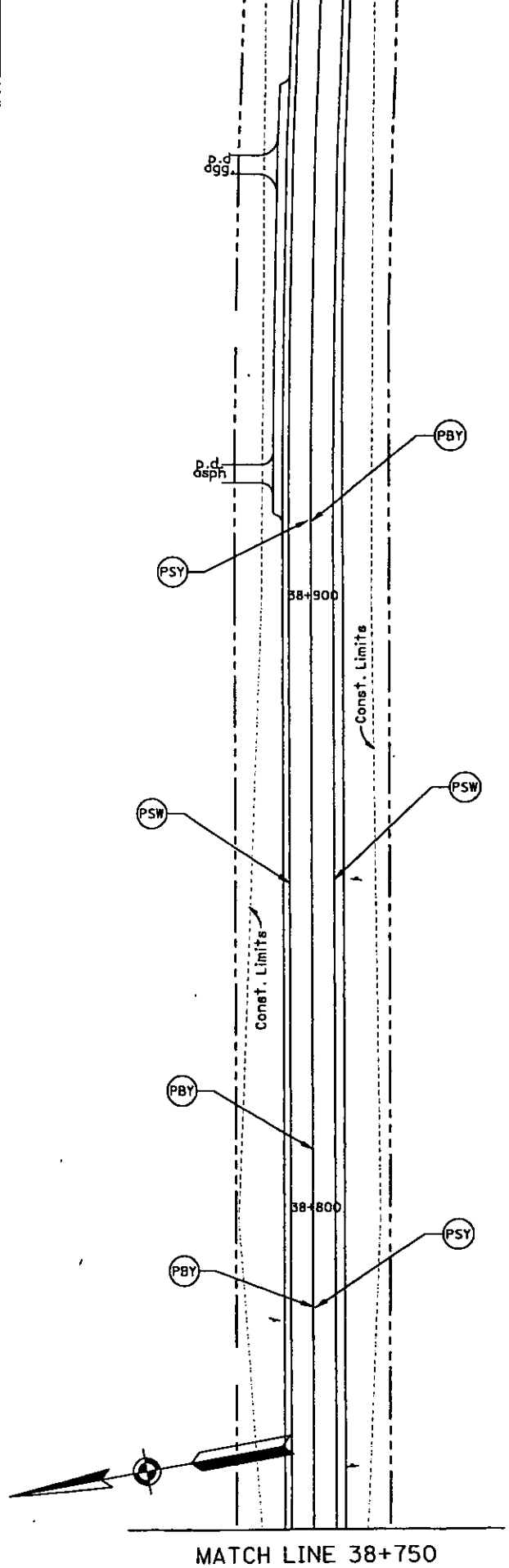
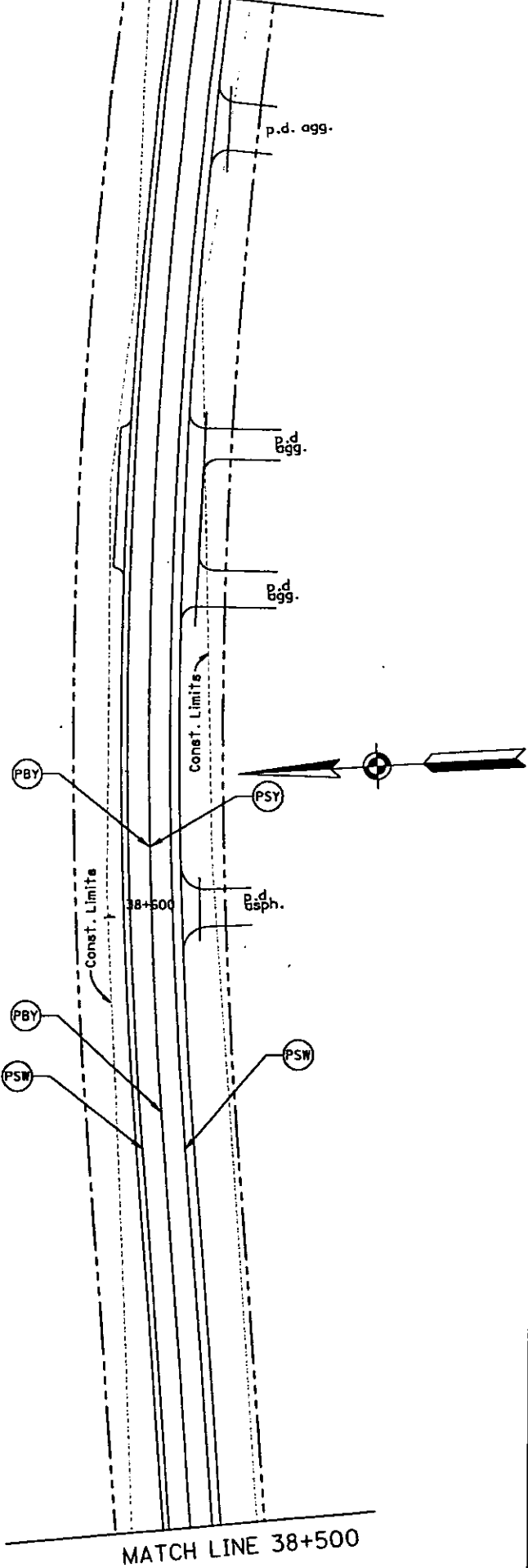
MATCH LINE 38+250

MATCH LINE 38+500



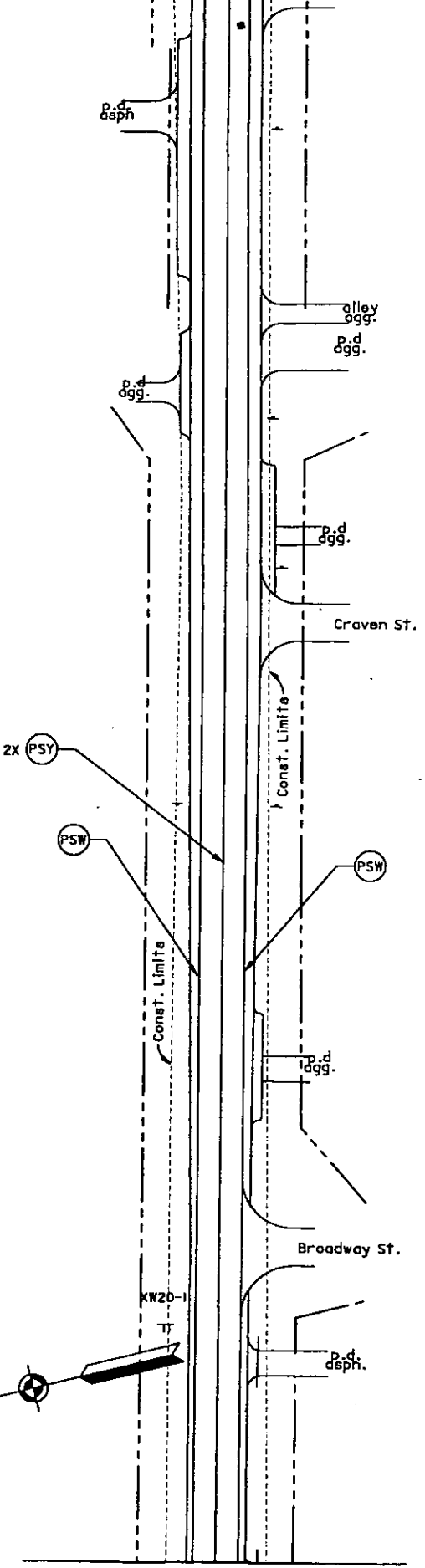
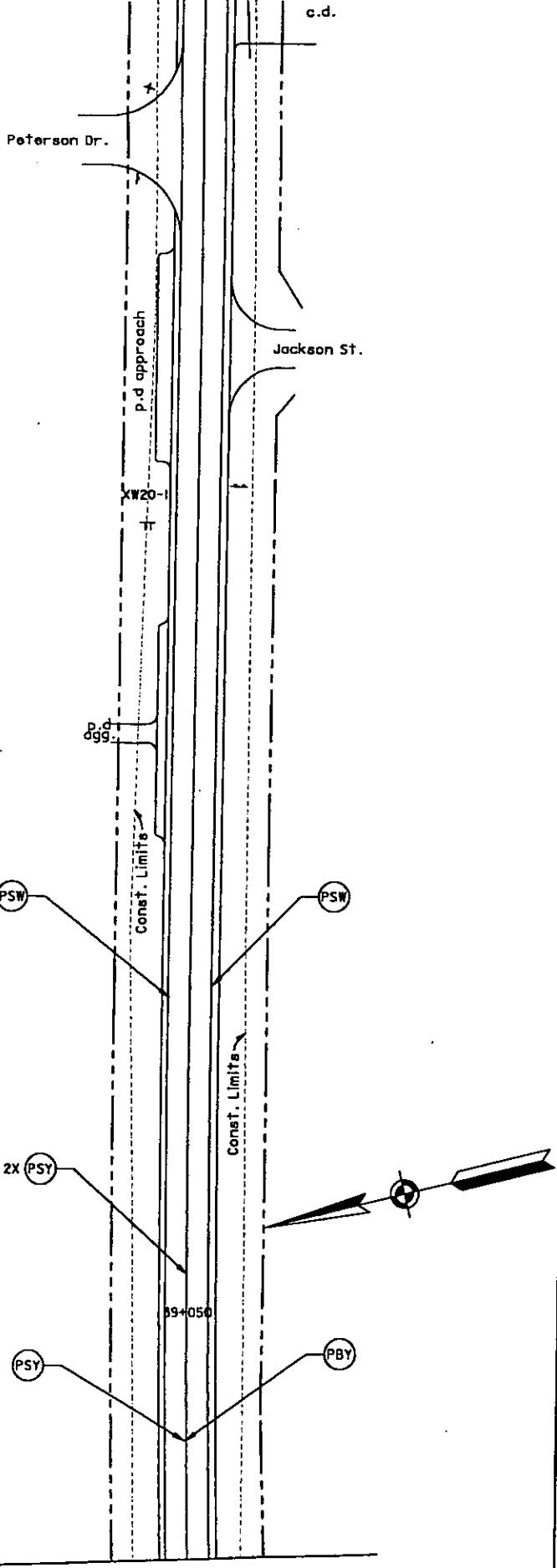
MATCH LINE 38+750

MATCH LINE 39+000



MATCH LINE 39+250

MATCH LINE 39+500

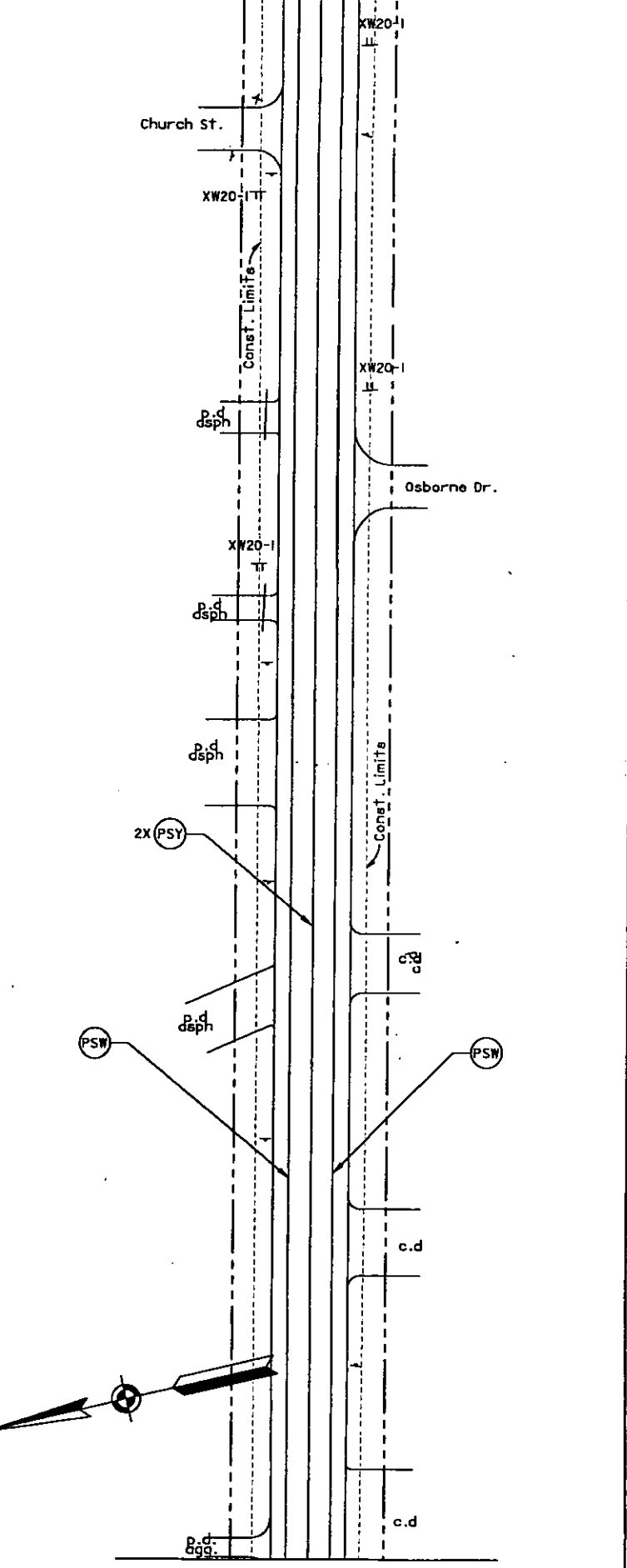
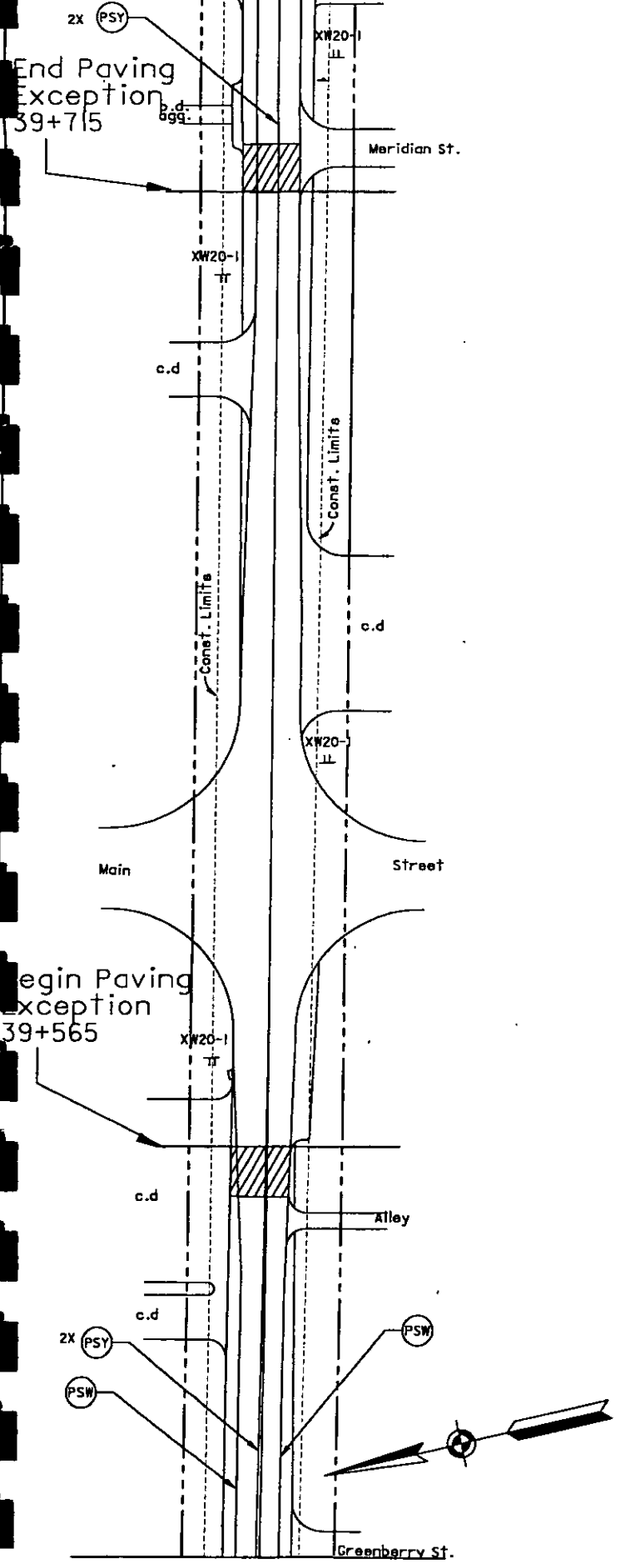


MATCH LINE 39+000

MATCH LINE 39+250

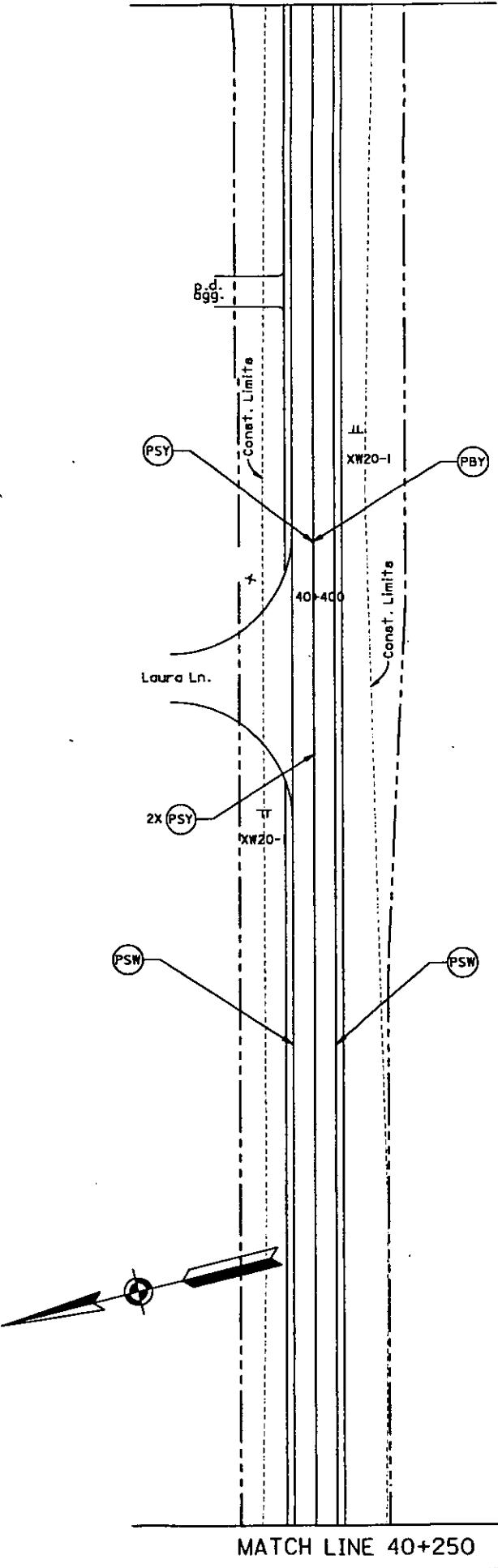
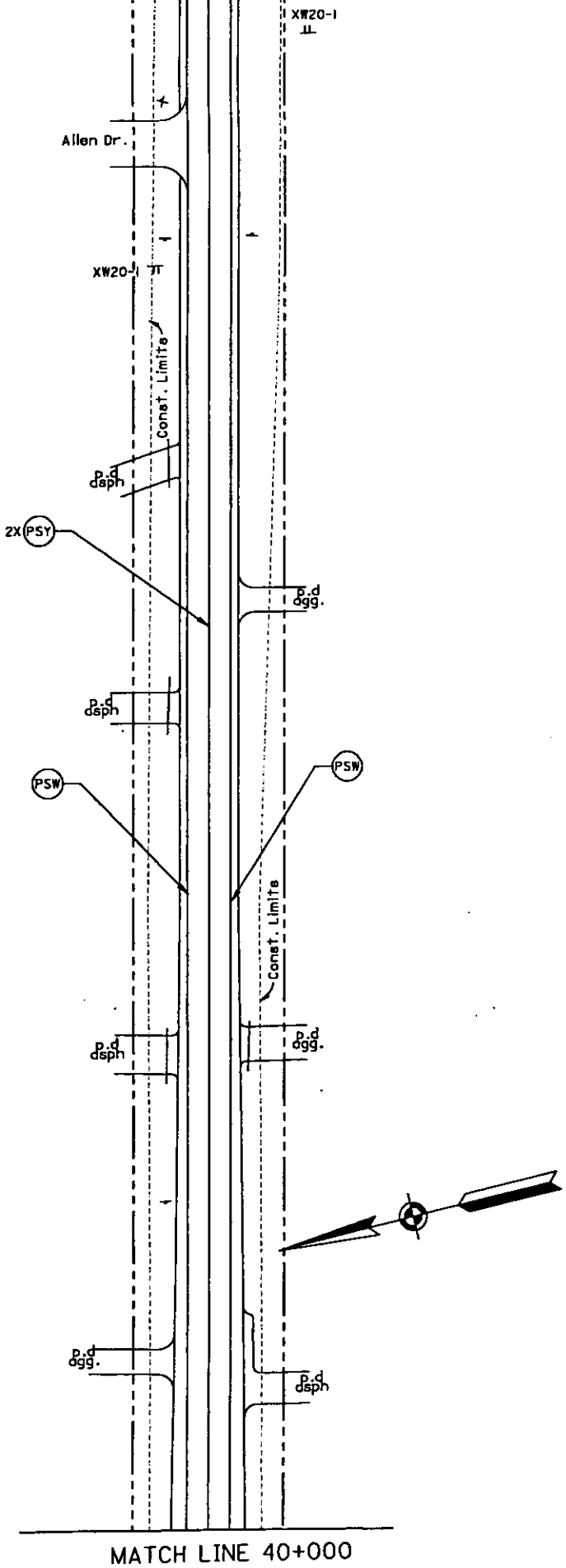
MATCH LINE 39+750

MATCH LINE 40+000

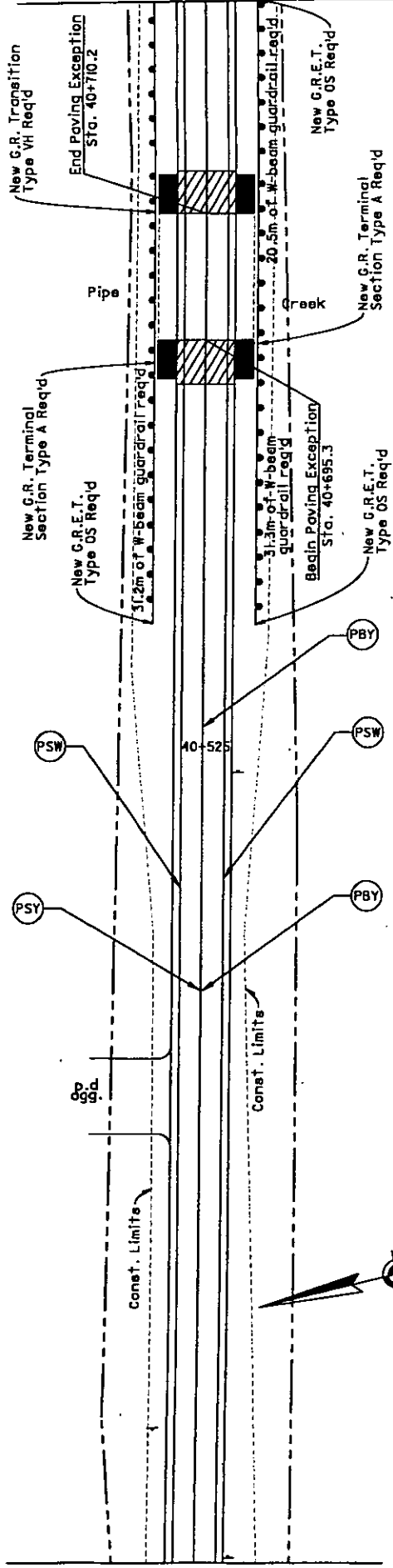


MATCH LINE 40+250

MATCH LINE 40+500

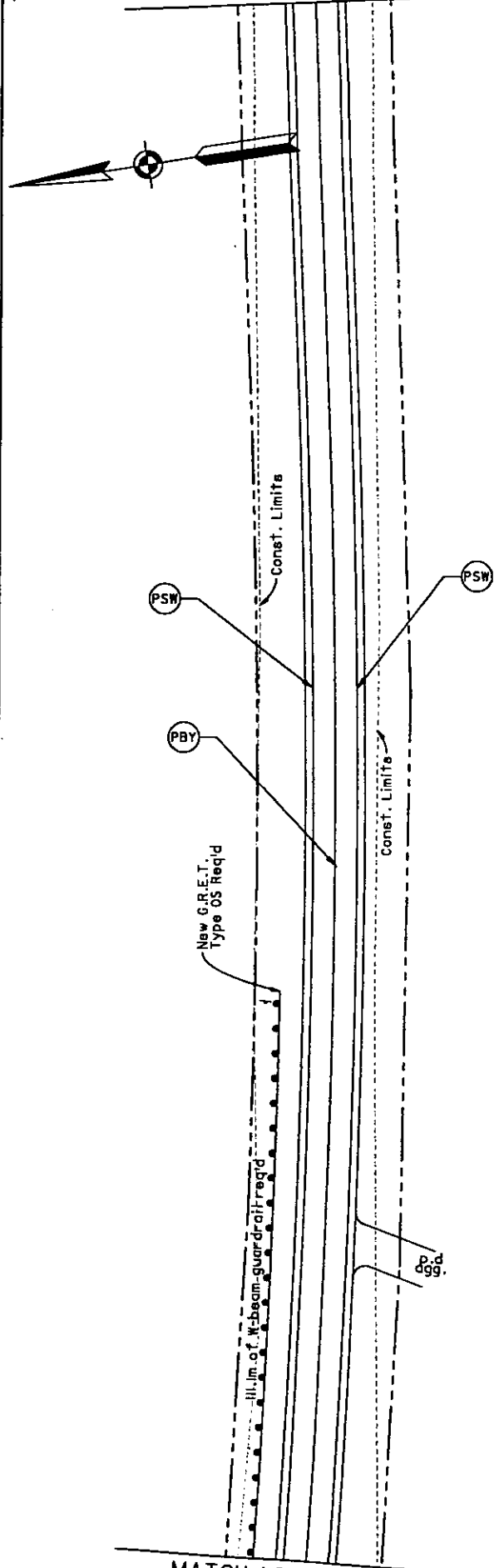


MATCH LINE 40+750



MATCH LINE 40+500

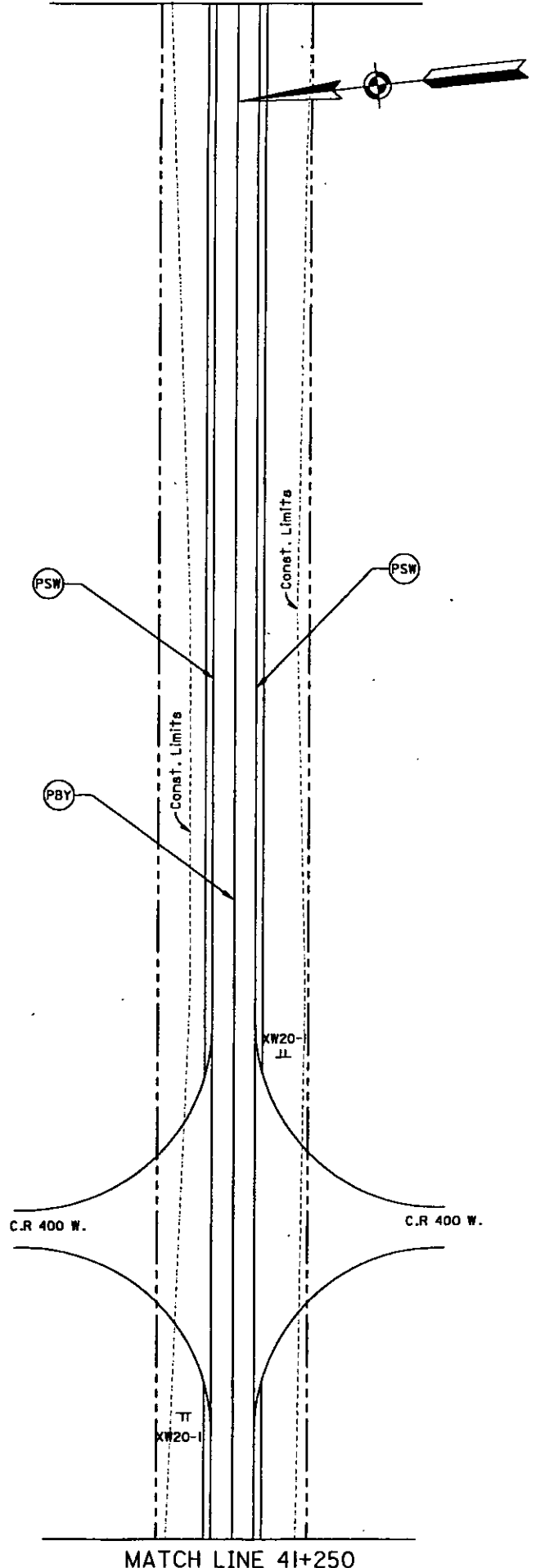
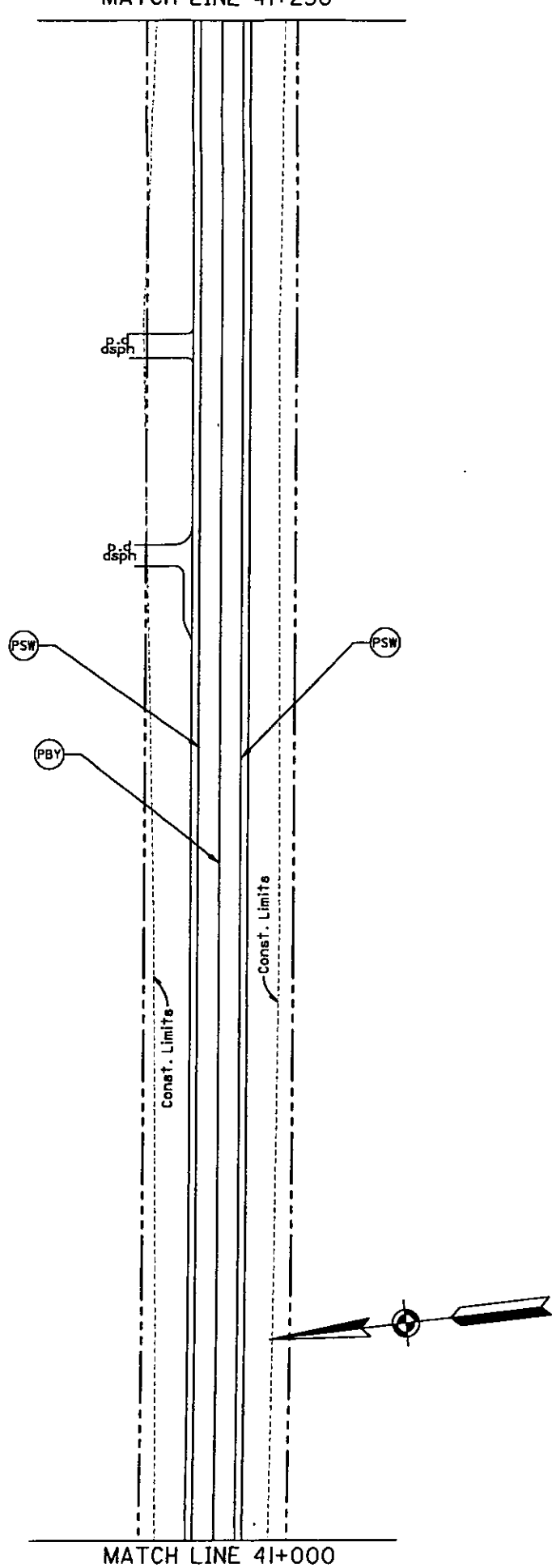
MATCH LINE 41+000



MATCH LINE 40+750

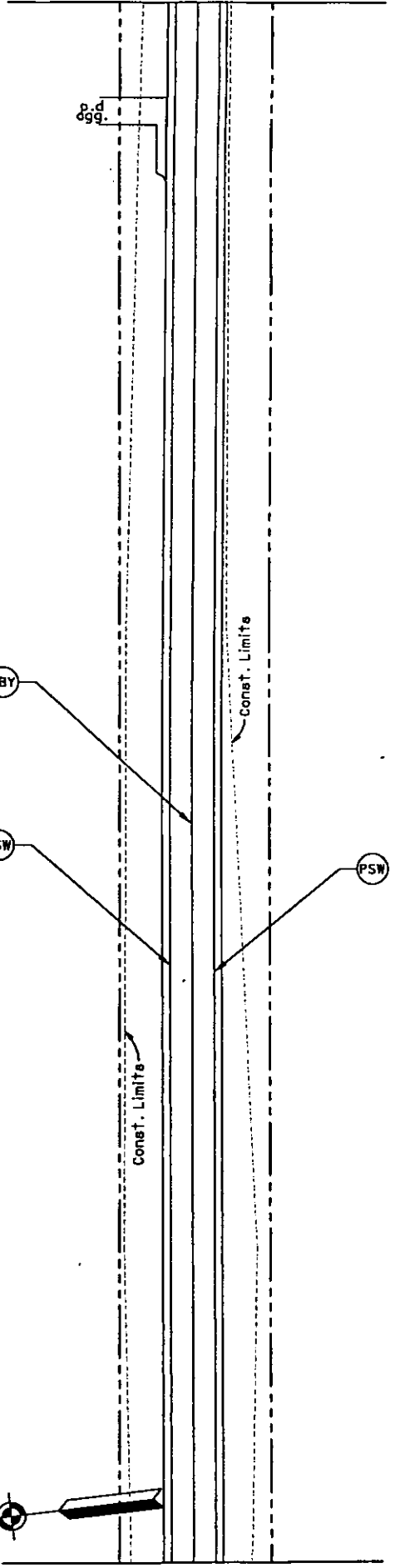
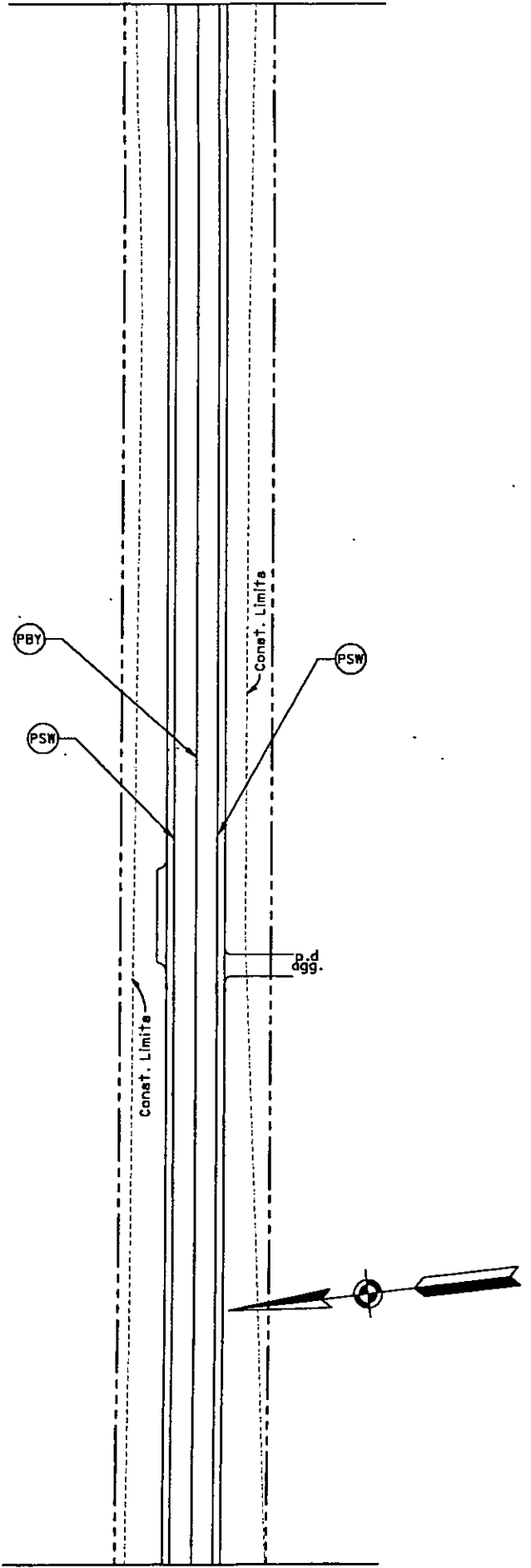
MATCH LINE 41+250

MATCH LINE 41+500



MATCH LINE 41+750

MATCH LINE 42+000

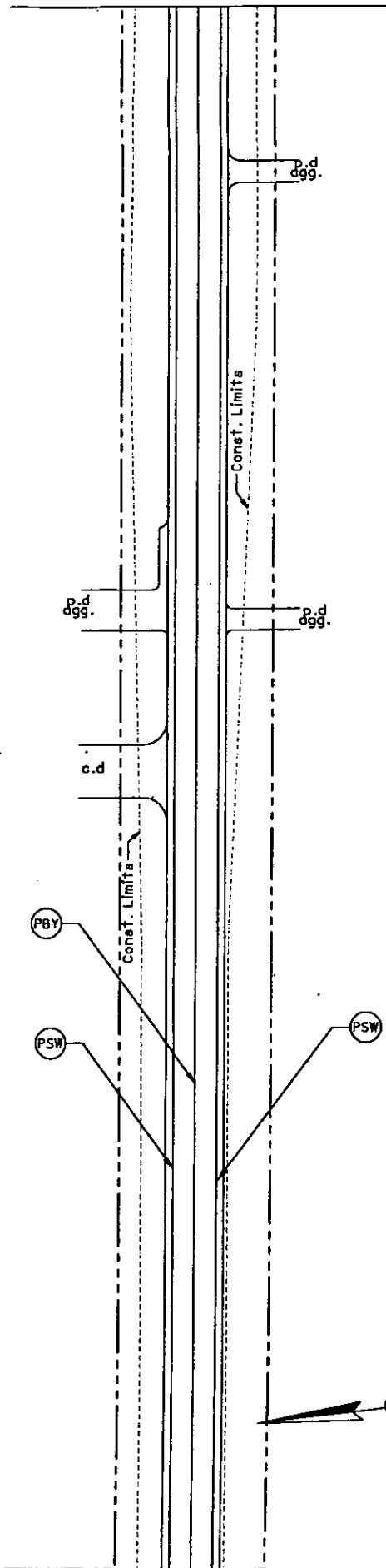


MATCH LINE 41+500

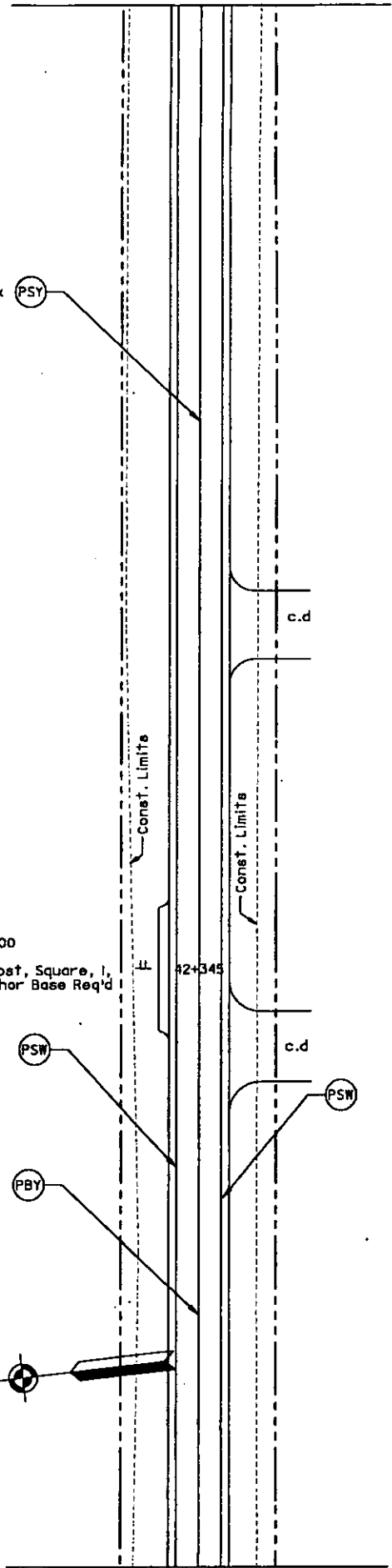
MATCH LINE 41+750

MATCH LINE 42+250

MATCH LINE 42+500



MATCH LINE 42+000

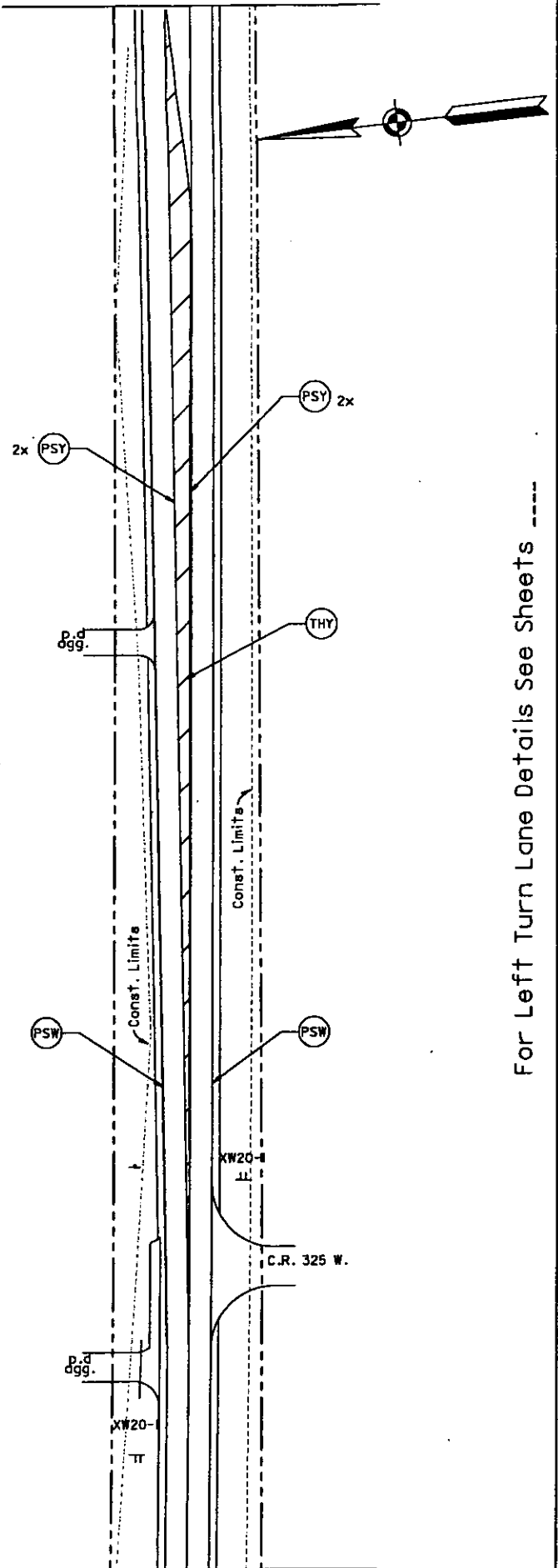


MATCH LINE 42+250

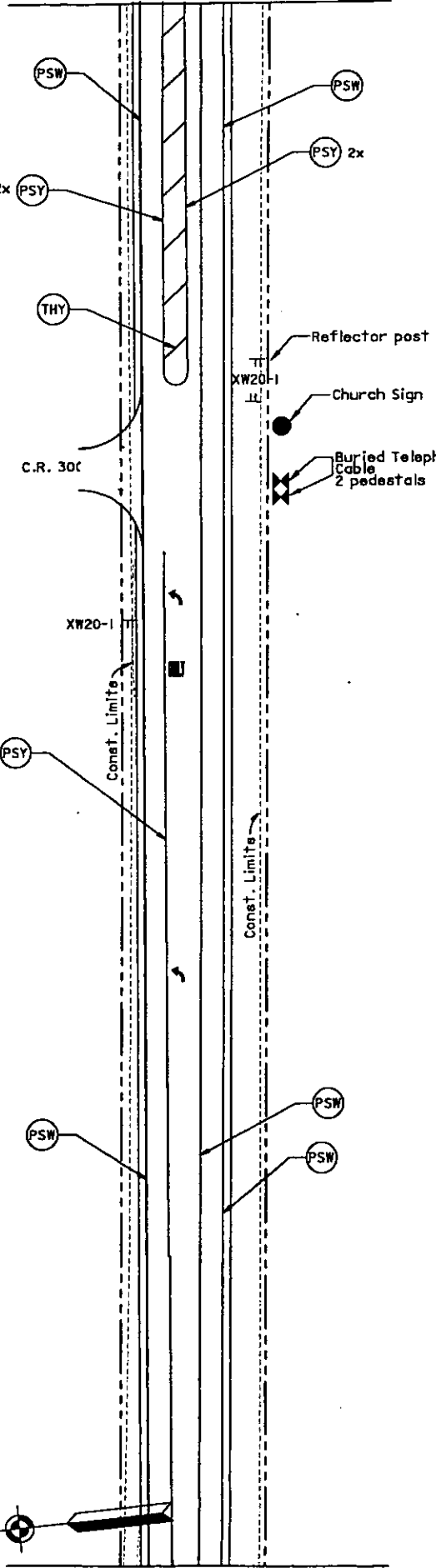
W14-3-A
 1200 x 1600 x 1600
 42+345 LT
 3.2m of Sign, Post, Square, I,
 Reinforced Anchor Base Req'd

MATCH LINE 42+750

MATCH LINE 43+000



For Left Turn Lane Details See Sheets -----



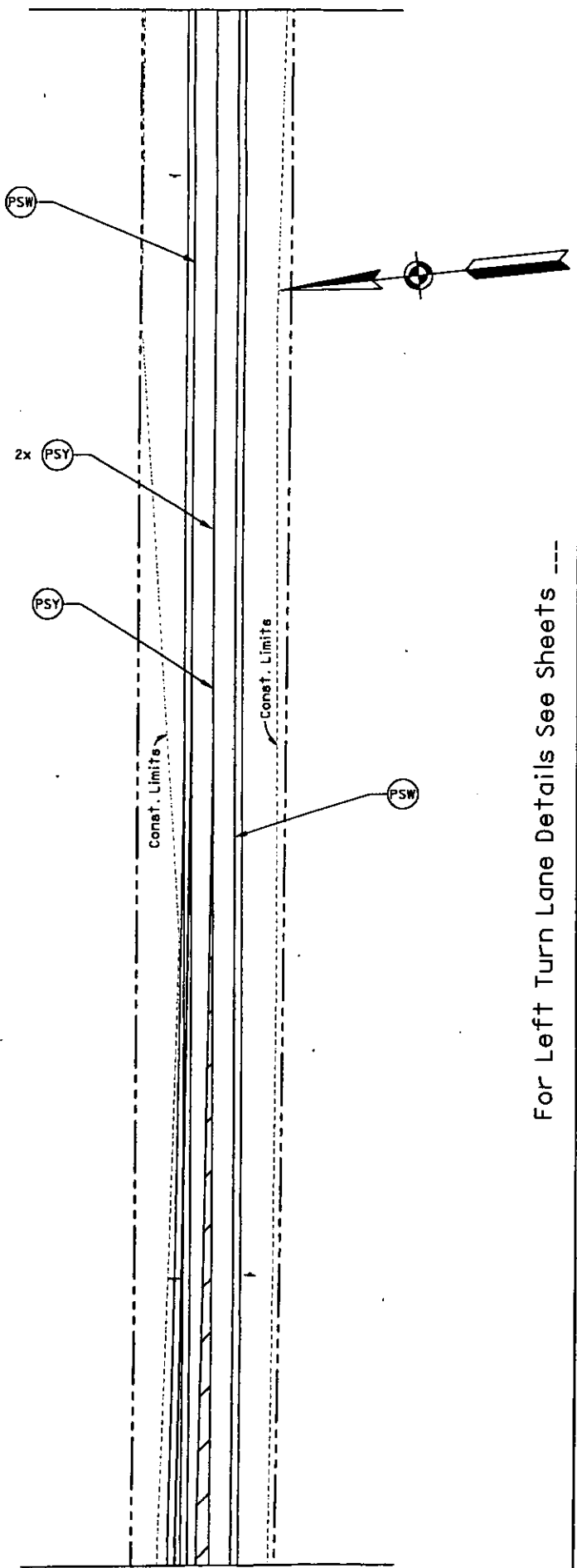
For Left Turn Lane Details See Sheets -----

MATCH LINE 42+500

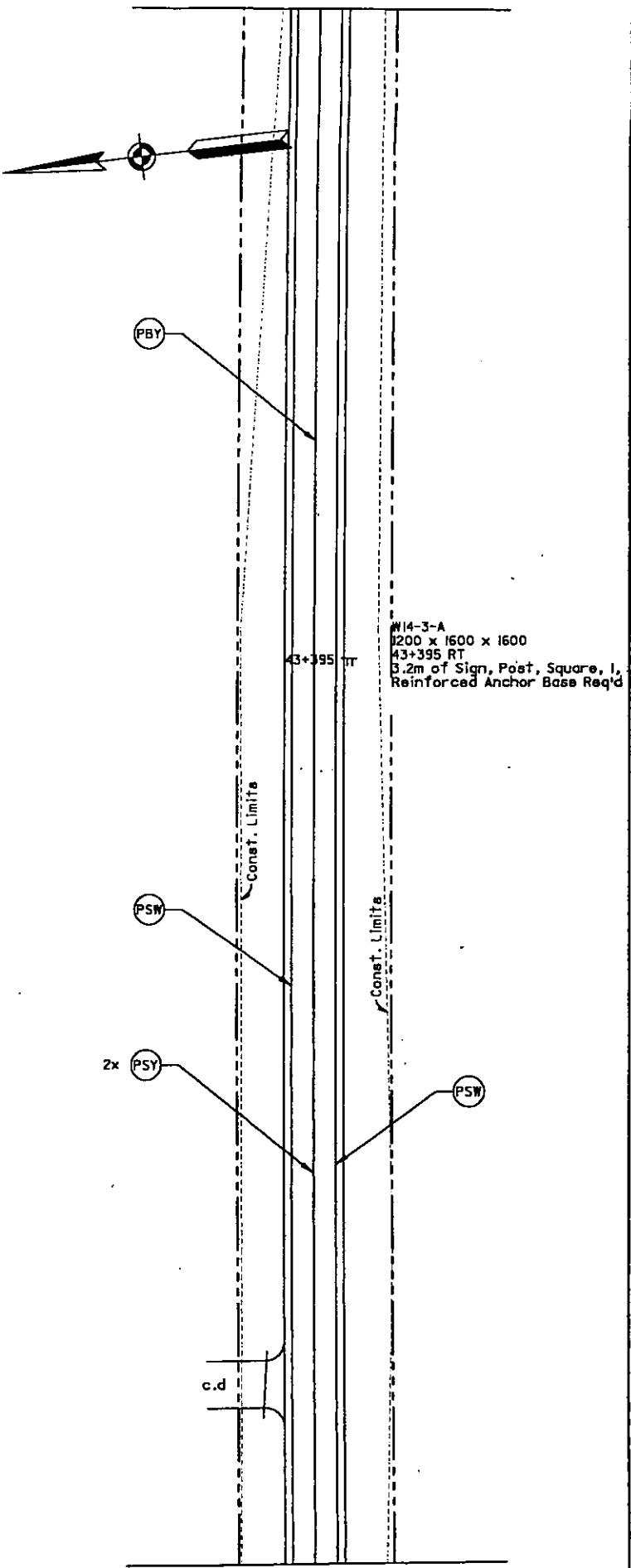
MATCH LINE 42+750

MATCH LINE 43+250

MATCH LINE 43+500



For Left Turn Lane Details See Sheets ---

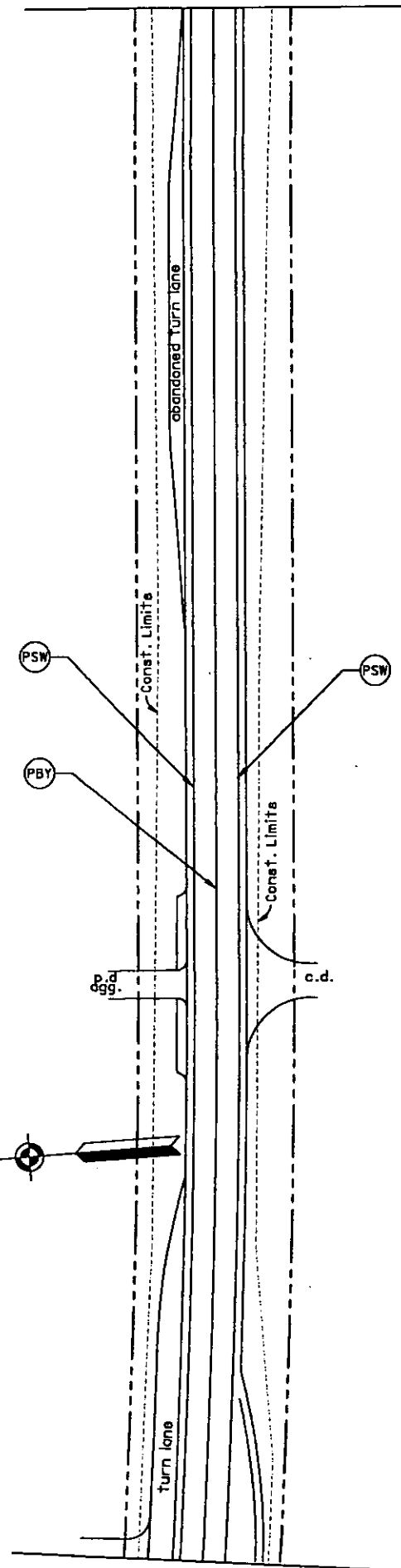
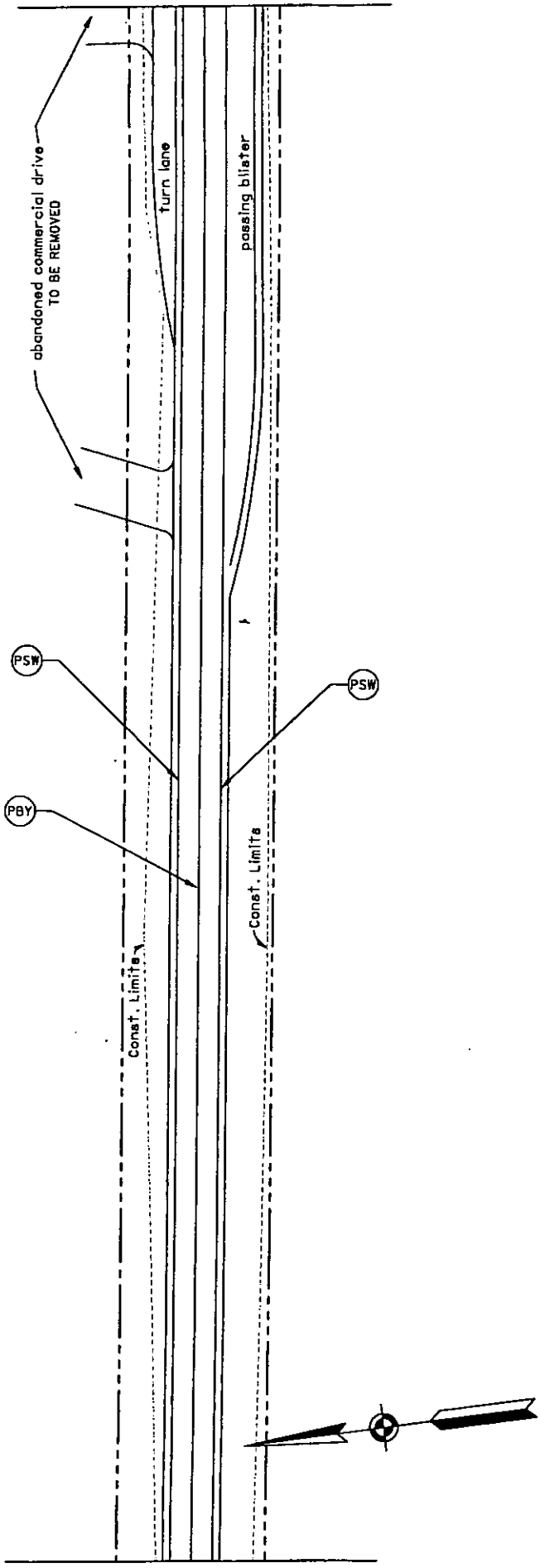


MATCH LINE 43+000

MATCH LINE 43+250

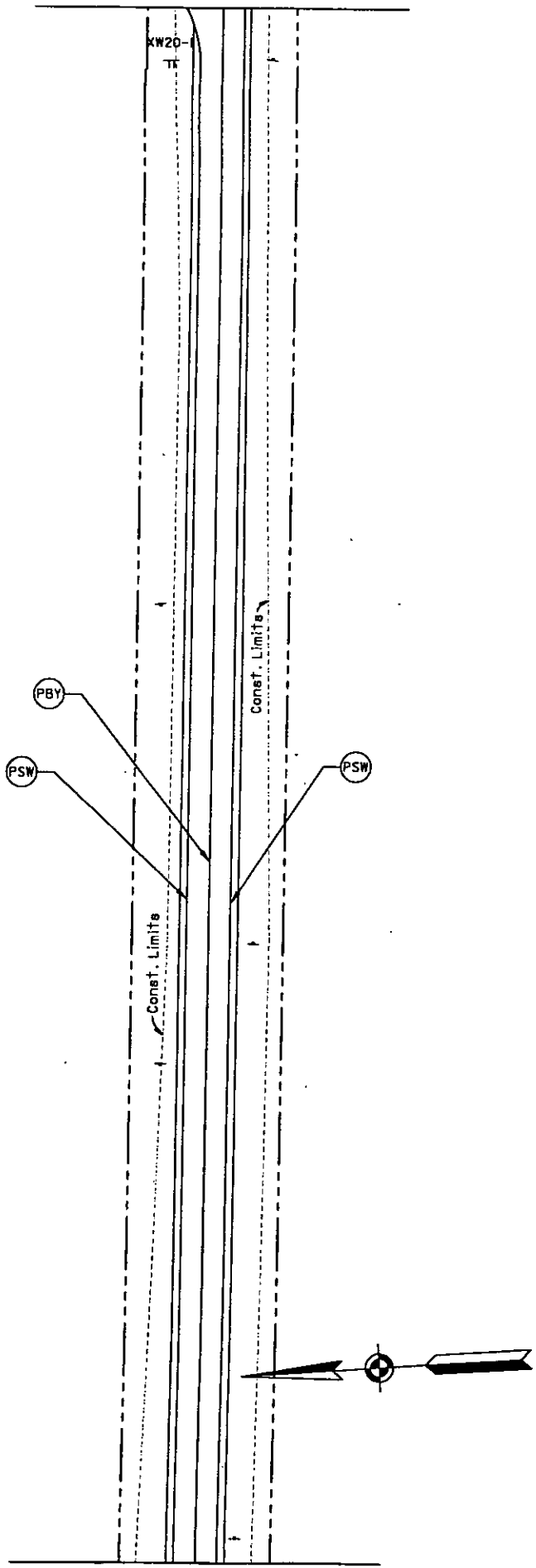
MATCH LINE 43+750

MATCH LINE 44+000

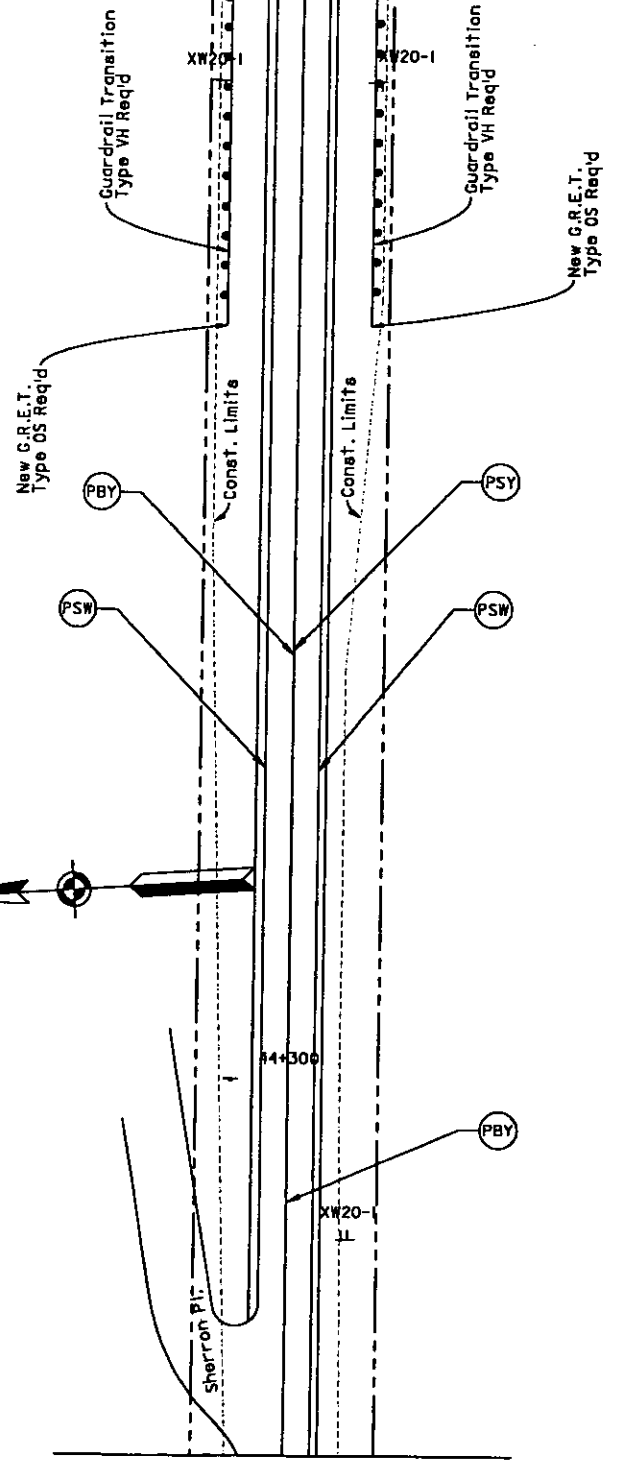


MATCH LINE 44+250

MATCH LINE 44+500

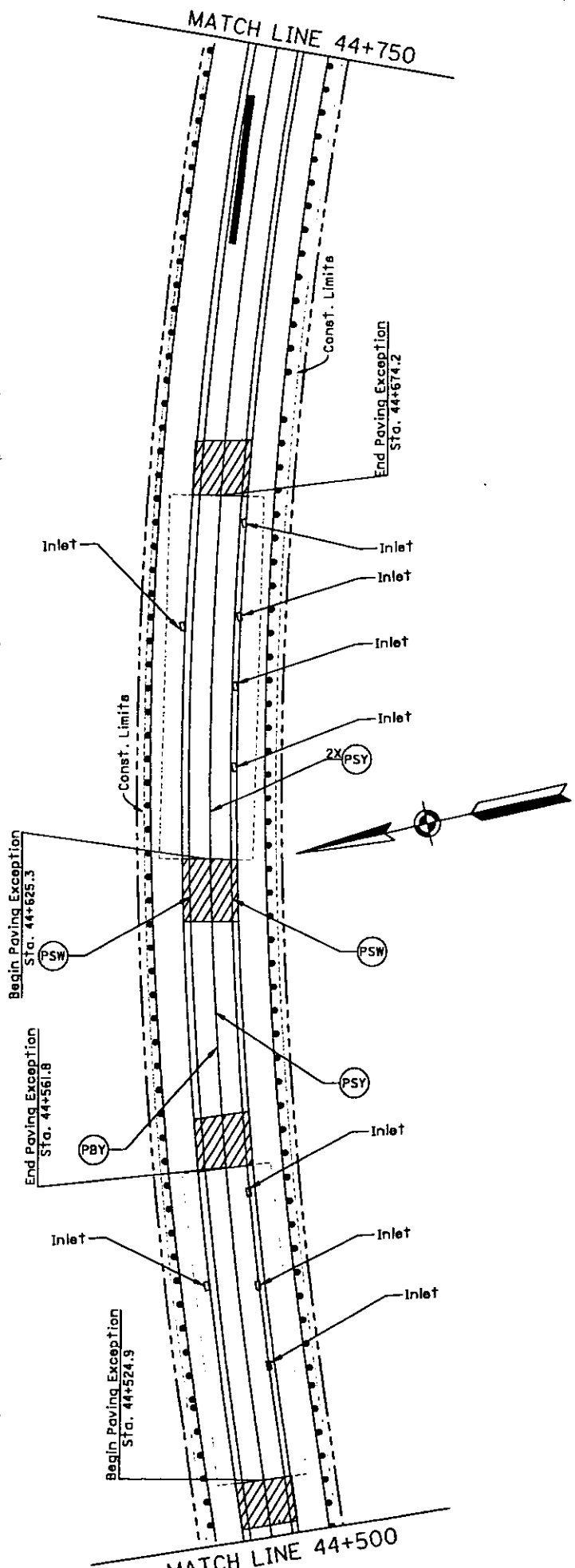


MATCH LINE 44+000

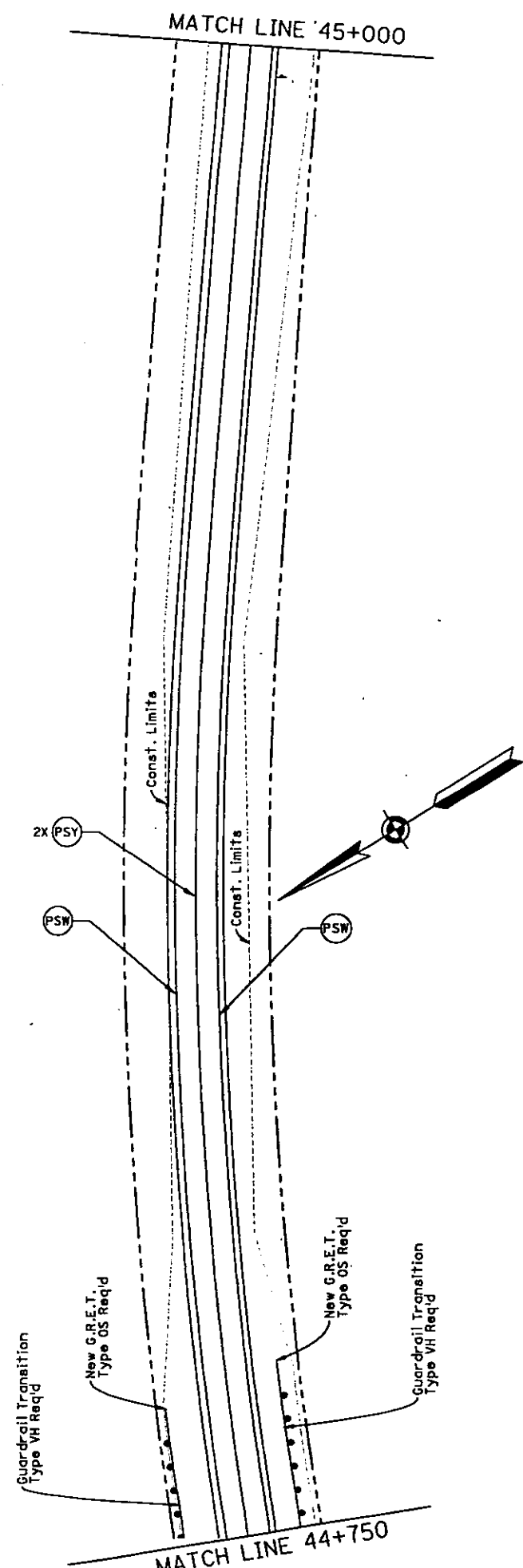


MATCH LINE 44+250

MATCH LINE 44+750



MATCH LINE 45+000



MATCH LINE 45+250

MATCH LINE 45+500

PSW

PSY

PSW

XW20-1

XW20-1

Sherron Pl.

Const. Limits

Const. Limits

c.d

MATCH LINE 45+000

PSW

p.d. agg.

PSW

Const. Limits

Turn Lane

Const. Limits

c.d

2X PSY

PSW

PSW

PSW

XW20-1

XW20-1



PSW

c.d

MATCH LINE 45+250

MATCH LINE 45+750

MATCH LINE 46+000

2X (PSY)

(PSW)

(PSW)

c.d.

Const. Limits



Const. Limits

c.d.

MATCH LINE 45+500

(PBY)

2X (PSY)

(PSY)

c.d.

45+550

Const. Limits

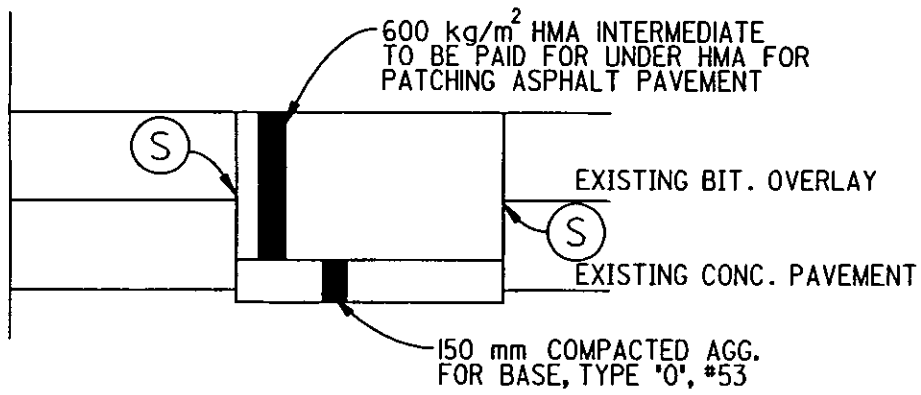
(PSW)



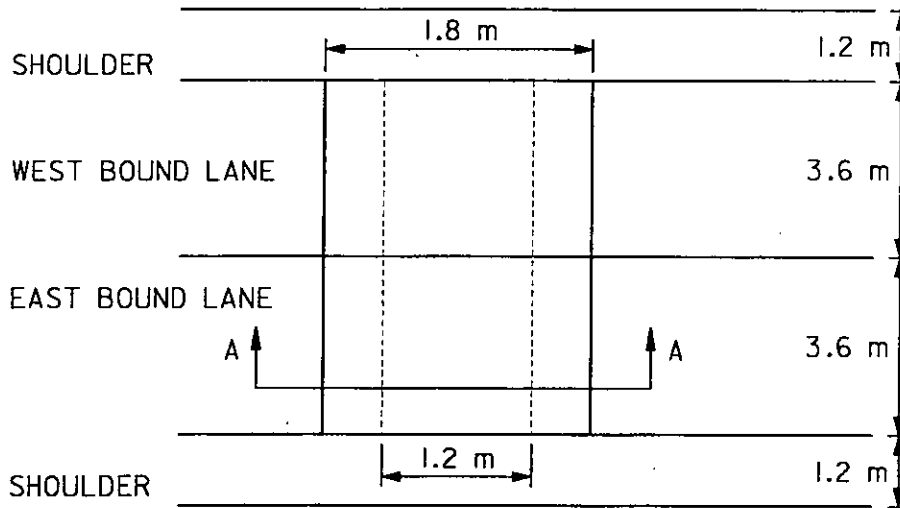
Const. Limits

(PSW)

MATCH LINE 45+750



SECTION A-A

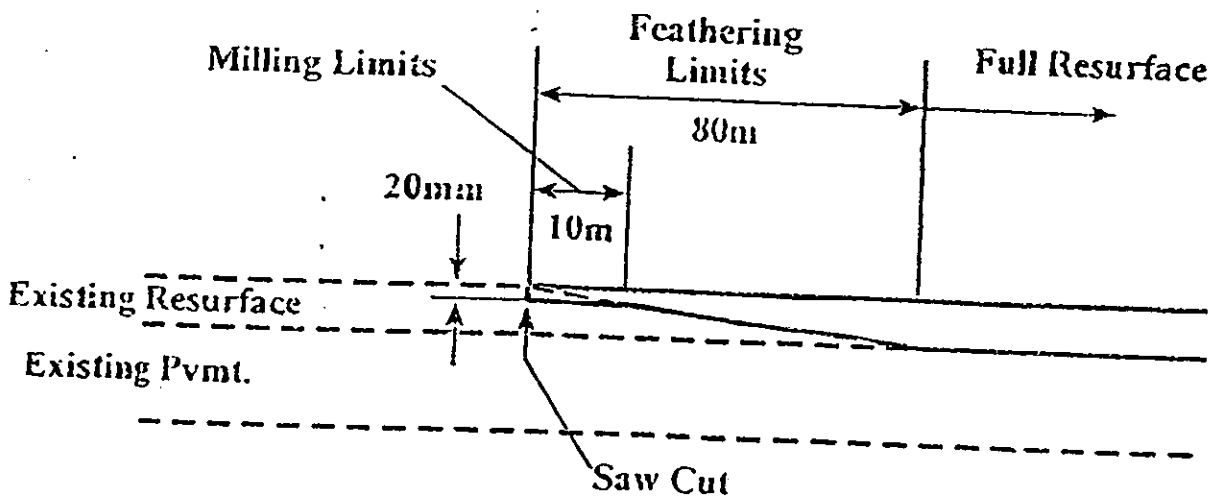
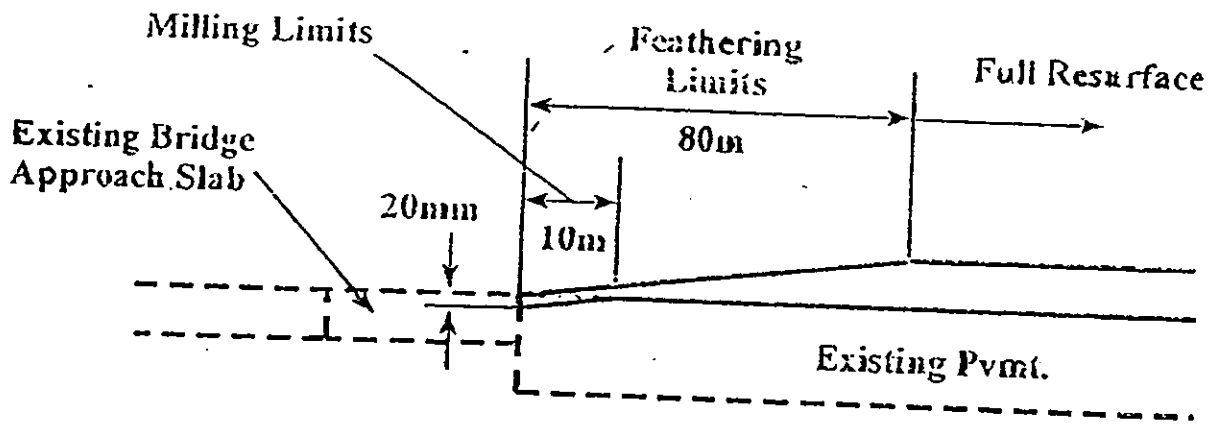
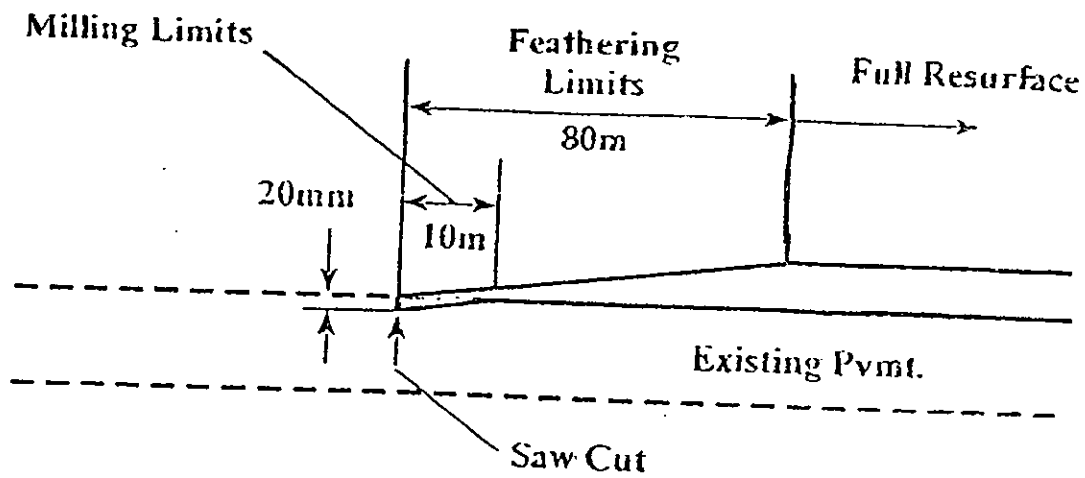


PLAN VIEW

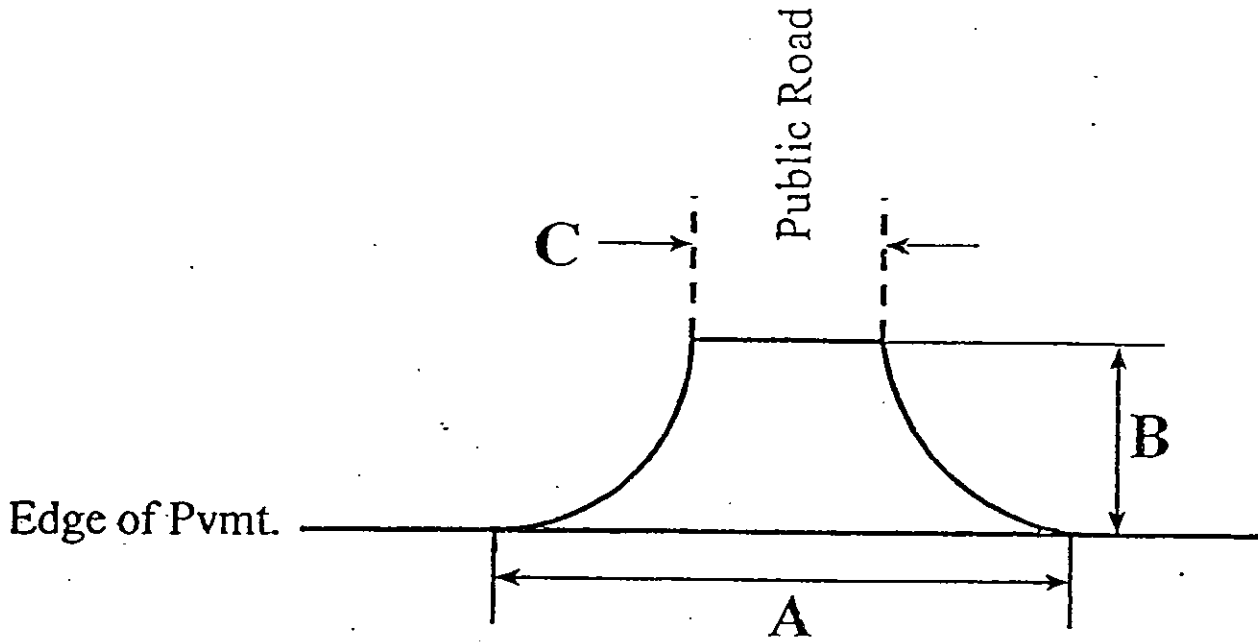
(S) SAW CUT

DESIGNED FOR APPROVAL	DESIGN ENGINEER	DATE	RECOMMENDED FOR APPROVAL	DATE
DRAWN	CHECKED	DATE	DESIGNED	DATE
SCALE	PROJECT	DATE	SCALE	PROJECT
INDIANA	DEPARTMENT OF TRANSPORTATION	FULL DEPTH JOINT REPAIR	INDIANA	DEPARTMENT OF TRANSPORTATION
HORIZONTAL SCALE	VERTICAL SCALE	DATE	HORIZONTAL SCALE	VERTICAL SCALE
DATE	PROJECT	DATE	DATE	PROJECT

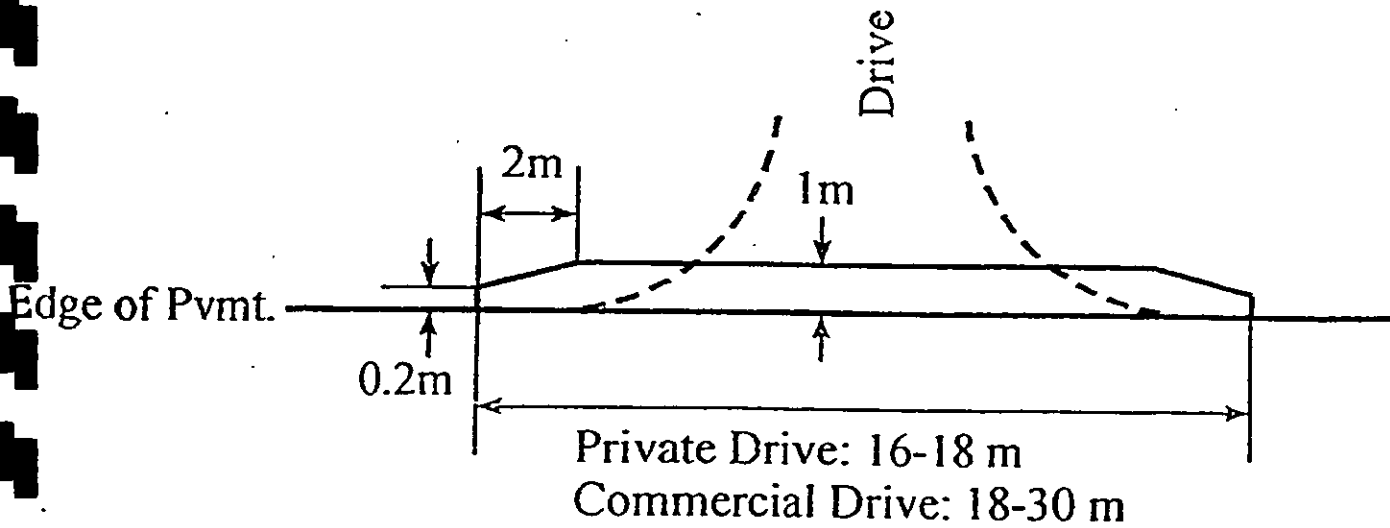
ASPHALT RESURFACE FEATHERING

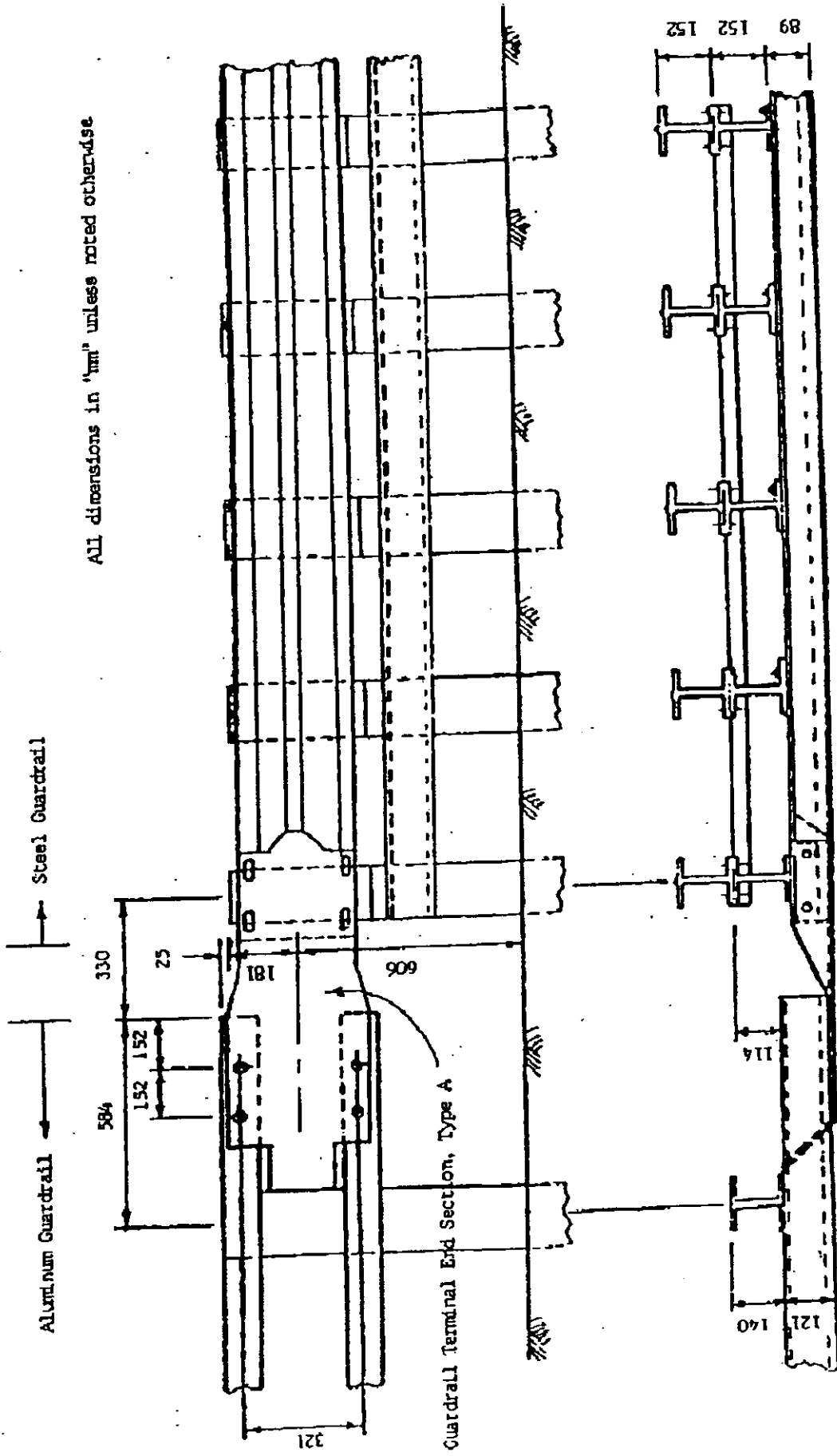


ASPHALT RESURFACING APPROACHES



Public Road: See Approach Table for A, B & C dim.s





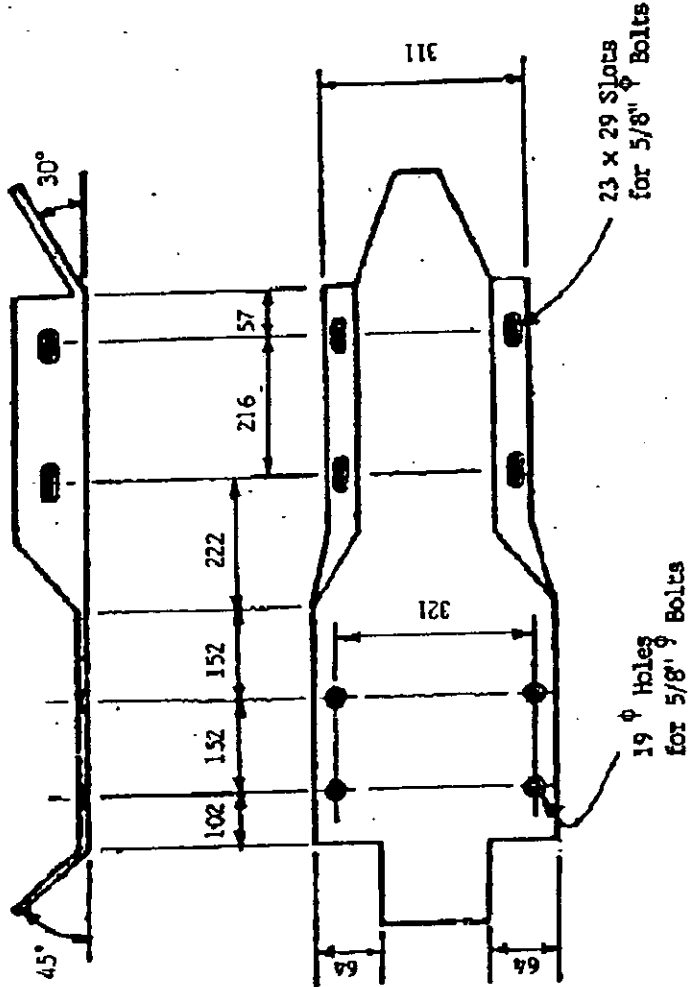
All dimensions in 'mm' unless noted otherwise

Aluminum Guardrail Steel Guardrail

Guardrail Terminal End Section, Type A

CONNECTION FROM STEEL TO ALUMINUM GUARDRAIL

All dimensions in "mm" unless noted otherwise



GUARDRAIL TERMINAL END SECTION, TYPE A

(Connection from Steel to Aluminum Guardrail)

SUMMARY TABLES

Station From	Station To	Length (m)	25mm Bituminous Surface Milling	QC/QA HMA Surface, 9.5mm		QC/QA HMA Intermediate, 19.0mm		Temporary Pavement Marking, Yellow, 100mm	Temporary Pavement Marking, White, 100mm	Line, Paint, Solid White 100mm	Line, Thermo, Solid, Yellow, 100mm
				m ²	Mg	Mg	Mg				
34+676	34+724	48.1	440.8	33.1	46.3	48.1	96.2	96.2	96.2	96.2	m
34+751	34+950	199.2	2237.0	167.8	234.9	199.2	398.4	398.4	398.6	398.5	
34+950	35+009	59	1150.9	86.3175	120.8445	59	118	118	103.1	118	
35+009	35+200	191	2213.7	166.0275	232.4385	191	382	382	417.9	382	
35+200	35+249	49	816.9	61.2657	85.77198	49	98	98	113.6	98	
35+249	35+780	531	5368.2	402.615	563.661	531	1062	1062	1083.3	1062	
35+780	35+825	45	423.0	31.725	44.415	45	90	90	90	90	
35+825	35+950	125	1175.0	88.125	123.375	125	250	250	250	250	
35+950	36+250	300	2820.0	211.5	296.1	300	600	600	600	300.0	
36+250	36+362	112	1052.8	78.96	110.544	112	224	224	224		
36+362	36+371	9	79.7	5.9775	8.3685	9	18	18			
36+371	36+379	8	75.1	5.6325	7.8855	8	16	16			
36+379	36+388	9	80.3	6.0225	8.4315	9	18	18			
36+388	36+554	166	1644.3	123.3225	172.6515	166	332	332	332		
36+572	37+995	1423.1	13377.4	1003.305	1404.627	1423.1	2846.2	2846.2	2846.2		
37+995	38+000	5	42.8	3.21	4.494	5	10	10			
38+000	38+006	6	56.4	4.23	5.922	6	12	12			
38+006	38+014	8	72.6	5.445	7.623	8	16	16			
38+014	38+600	586	5540.1	415.5075	581.7105	586	1172	1172	1172		
38+600	38+800	200	1899.6	142.47	199.458	200	400	400	400	200.0	
38+800	38+900	100	950.0	71.25	99.75	100	200	200	200		
38+900	39+050	150	1387.9	104.0925	145.7295	150	300	300	300	150.0	
39+050	39+190	140	1288.0	96.5985	135.2379	140	280	280	280	280	
39+190	39+196	6	55.2	4.14	5.796	6	12	12	6	12	
39+196	39+210	14	128.8	9.66	13.524	14	28	28	28	28	
39+210	39+242	32	294.4	22.08	30.912	32	64	64	32	64	
39+242	39+297	55	506.0	37.95075	53.13105	55	110	110	110	110	
39+297	39+302	5	461.0	34.575	48.405	5	10	10	5	10	

SUMMARY TABLES

Station From	Station To	Length (m)	25mm Bituminous Surface Milling	QC/QA HMA Surface, 9.5mm		QC/QA HMA Intermediate, 19.0mm		Temporary Pavement Marking, Yellow, 100mm	Temporary Pavement Marking, White, 100mm	Line, Paint, Solid White 100mm	Line, Thermo, Solid, Yellow, 100mm
				m ²	Mg	Mg	Mg				
39+302	39+397	95	963.4	72.255	101.157	95	190	190	190	190	190
39+397	39+402	5	55.4	4.155	5.817	5	10	10	5	5	10
39+402	39+499	97	1076.7	80.7525	113.0535	97	194	194	194	194	194
39+499	39+504	5	55.5	4.1625	5.8275	5	10	10	5	5	10
39+504	39+565	61	660.2	49.515	69.321	61	122	122	122	122	122
39+715	39+728	13	148.3	11.1225	15.5715	13	26	26	13	13	26
39+728	39+918	190	2266.8	170.01	238.014	190	380	380	380	380	380
39+918	39+925	7	84.0	6.3	8.82	7	14	14	7	7	14
39+925	39+971	46	552.0	41.4	57.96	46	92	92	92	92	92
39+971	39+986	15	180.0	13.5	18.9	15	30	30	15	15	30
39+986	40+215	229	2451.5	183.8625	257.4075	229	458	458	458	458	458
40+215	40+232	17	159.8	11.985	16.779	17	34	34	17	17	34
40+232	40+365	133	1250.2	93.765	131.271	133	266	266	266	266	266
40+365	40+400	35	329.0	24.675	34.545	35	70	70	35	35	70
40+400	40+412	12	112.8	8.46	11.844	12	24	24	12	12	24
40+412	40+525	113	1062.2	79.665	111.531	113	226	226	226	226	226
40+525	40+695	170.3	1601.8	120.135	168.189	170.3	340.6	340.6	340.6	340.6	340.6
40+710	41+267	556.8	5183.1	388.7325	544.2255	556.8	1113.6	1113.6	1113.6	1113.6	1113.6
41+267	41+288	21	197.4	14.805	20.727	21	42	42	21	21	42
41+288	41+314	26	244.4	18.33	25.662	26	52	52	26	26	52
41+314	41+333	19	178.6	13.395	18.753	19	38	38	19	19	38
41+333	42+525	1192	11204.8	840.36	1176.504	1192	2384	2384	2384	2384	2384
42+525	42+542	17	159.8	11.985	16.779	17	34	34	17	17	34
42+542	42+552	10	94.0	7.05	9.87	10	20	20	10	10	20
42+552	42+725	173	1626.2	121.965	170.751	173	346	346	346	346	346
42+725	42+912	187	1757.8	131.835	184.569	187	374	374	374	374	374
42+912	42+925	13	122.2	9.165	12.831	13	26	26	13	13	26
42+925	42+938	13	122.2	9.165	12.831	13	26	26	13	13	26

SUMMARY TABLES

Station From	Station To	Length (m)	25mm Bituminous Surface Milling	QC/QA HMA Surface, 9.5mm		QC/QA HMA Intermediate, 19.0mm		Temporary Pavement Marking, Yellow, 100mm	Temporary Pavement Marking, White, 100mm	Line, Paint, Solid White 100mm	Line, Thermo, Solid, Yellow, 100mm
				Mg	Mg	Mg	Mg				
42+938	43+150	212	1992.8	149.46	209.244	212	424	424	424	848.0	
43+150	44+240	1090	10233.0	767.475	1074.465	1090	2180	2180	2180	3060.0	
44+240	44+270	30	276.0	20.7	28.98	30	60	60	60		
44+270	44+300	30	276.0	20.7	28.98	30	60	60	60		
44+300	44+525	224.9	1928.7	144.6525	202.5135	224.9	449.8	449.8	449.8	224.9	
44+562	44+625	63.5	475.7	35.6775	49.9485	63.5	127	127	127	127	
44+674	45+143	468.8	4327.0	324.525	454.335	468.8	937.6	937.6	937.6	937.6	
45+143	45+160	17	160.1	12.0075	16.8105	17	34	34	34	34	
45+160	45+950	790	8170.1	612.7575	857.8605	790	1580	1580	2180	1580	
45+950	46+116	166	1513.2	113.49	158.886	166	332	332	332	166.0	
46+116	46+279	162.6	2421.9	181.6425	254.2995	162.645	325.29	325.29	425.29	325.29	
TOTALS			111312.5	8348.4	11687.8	11307.3	22614.7	23664.8	16155.7		

SUMMARY TABLES

Station From	Station To	Length (m)	Line, Thermo, Broken, Yellow 100mm	Transverse Markings, Thermo, Stop Line, 600mm	Transverse Markings, Thermo., Crosshatch Line	Pav't Mess. Markings, Thermo., Lane Ind. Arrow	Pav't Mess. Marking, Thermo., Word, (ONLY)	Snowplowable Raised Pavement Marker Remove
			m	m	m	EACH	EACH	EACH
34+676	34+724	48.1						
34+751	34+950	199.2						
34+950	35+009	59		12.2				
35+009	35+200	191						
35+200	35+249	49						
35+249	35+780	531						
35+780	35+825	45						
35+825	35+950	125						
35+950	36+250	300	75.0					
36+250	36+362	112	28.0					
36+362	36+371	9	2.3					
36+371	36+379	8	2.0					
36+379	36+388	9	2.3					
36+388	36+554	166	41.5					
36+572	37+995	1423.1	355.8					
37+995	38+000	5	1.3					
38+000	38+006	6	1.5					
38+006	38+014	8	2.0					
38+014	38+600	586	146.5					
38+600	38+800	200	50.0					
38+800	38+900	100	25.0					
38+900	39+050	150	37.5					
39+050	39+190	140						
39+190	39+196	6						
39+196	39+210	14						
39+210	39+242	32						
39+242	39+297	55						
39+297	39+302	5						

SUMMARY TABLES

Station From	Station To	Length (m)	Line, Thermo, Broken, Yellow 100mm	Transverse Markings, Thermo, Stop Line, 600mm	Transverse Markings, Thermo, Crosshatch Line	Pav't Mess. Markings, Thermo., Lane Ind. Arrow	Pav't Mess. Marking, Thermo., Word, (ONLY)	Snowplowable Raised Pavement Marker Remove
			m	m	m	EACH	EACH	EACH
39+302	39+397	95						
39+397	39+402	5						
39+402	39+499	97						
39+499	39+504	5						
39+504	39+565	61						
39+715	39+728	13						
39+728	39+918	190						
39+918	39+925	7						
39+925	39+971	46						
39+971	39+986	15						
39+986	40+215	229						
40+215	40+232	17						
40+232	40+365	133						
40+365	40+400	35						
40+400	40+412	12	3.0					
40+412	40+525	113	28.3					
40+525	40+695	170.3	42.6					
40+710	41+267	556.8	139.2					
41+267	41+288	21	5.3					
41+288	41+314	26	6.5					
41+314	41+333	19	4.8					
41+333	42+525	1192	298.0					
42+525	42+542	17						
42+542	42+552	10						
42+552	42+725	173		57				
42+725	42+912	187		6.5		2	1	
42+912	42+925	13						
42+925	42+938	13						

SUMMARY TABLES

Station From	Station To	Length (m)	Line, Thermo, Broken, Yellow 100mm	Transverse Markings, Thermo, Stop Line, 600mm	Transverse Markings, Thermo., Crosshatch Line	Pav't Mess. Markings, Thermo., Lane Ind. Arrow	Pav't Mess. Marking, Thermo., Word, (ONLY)	Snowplowable Raised Pavement Marker Remove
			m	m	m	EACH	EACH	EACH
42+938	43+150	212			80.6			
43+150	44+240	1090			7.5			
44+240	44+270	30	7.5					
44+270	44+300	30	7.5					
44+300	44+525	224.9	56.2					
44+562	44+625	63.5						
44+674	45+143	468.8						
45+143	45+160	17						
45+160	45+950	790						
45+950	46+116	166	41.5					
46+116	46+279	162.6			61	4	2	
TOTALS			1410.8	12.2	212.6	6	3	268

SUMMARY TABLES

Station From	Station To	Length (m)	Snowplowable Raised Pavment Marker 2-Way White/Red	Snowplowable Raised Pavment Marker 2-Way Yellow	Adjust Casting
			EACH	EACH	
34+676	34+724	48.1		1	
34+751	34+950	199.2	1	8	
34+950	35+009	59	2	2	
35+009	35+200	191		8	
35+200	35+249	49	1	2	
35+249	35+780	531	2	22	
35+780	35+825	45	2	2	
35+825	35+950	125		5	
35+950	36+250	300		13	
36+250	36+362	112		5	
36+362	36+371	9			
36+371	36+379	8			
36+379	36+388	9			
36+388	36+554	166		7	
36+572	37+995	1423.1		59	
37+995	38+000	5			
38+000	38+006	6			
38+006	38+014	8			
38+014	38+600	586		24	
38+600	38+800	200		8	
38+800	38+900	100		4	
38+900	39+050	150		6	
39+050	39+190	140		6	
39+190	39+196	6			
39+196	39+210	14		1	
39+210	39+242	32		1	
39+242	39+297	55		2	
39+297	39+302	5			

SUMMARY TABLES

Station From	Station To	Length (m)	Snowplowable Raised Pavment Marker 2-Way White/Red	Snowplowable Raised Pavment Marker 2-Way Yellow	Adjust Casting
			EACH	EACH	
39+302	39+397	95		4	
39+397	39+402	5			
39+402	39+499	97		4	
39+499	39+504	5			
39+504	39+565	61		3	
39+715	39+728	13		1	
39+728	39+918	190		8	
39+918	39+925	7			
39+925	39+971	46		2	
39+971	39+986	15		1	
39+986	40+215	229		10	
40+215	40+232	17		1	
40+232	40+365	133		6	
40+365	40+400	35		1	
40+400	40+412	12		1	
40+412	40+525	113		5	
40+525	40+695	170.3		7	
40+710	41+267	556.8		23	
41+267	41+288	21		1	
41+288	41+314	26		1	
41+314	41+333	19		1	
41+333	42+525	1192		50	
42+525	42+542	17		1	
42+542	42+552	10			
42+552	42+725	173		14	
42+725	42+912	187	8	8	
42+912	42+925	13		1	
42+925	42+938	13		1	

SUMMARY TABLES

Station From	Station To	Length (m)	Snowplowable Raised Pavment Marker 2-Way White/Red	Snowplowable Raised Pavment Marker 2-Way Yellow	Adjust Casting
			EACH	EACH	EACH
42+938	43+150	212		9	
43+150	44+240	1090		55	
44+240	44+270	30		1	
44+270	44+300	30		1	
44+300	44+525	224.9		9	9
44+562	44+625	63.5		3	
44+674	45+143	468.8		20	
45+143	45+160	17		1	
45+160	45+950	790		33	
45+950	46+116	166		7	
46+116	46+279	162.6	2	7	
TOTALS			18	483	9

SUMMARY TABLES

Resurfacing Line "A"		
Area = 111,312.5 m ²		
75 kg/m ²	QC/QA HMA Surface 9.5mm (Mg)	8348.4
105 kg/m ²	QC/QA HMA Intermediate 19.0mm (Mg)	11687.8

Full Depth Patching Lanes						
Approximate Station	Lane Location	m	x	m	Area (m ²)	Base (Mg)
45+400	LT	0.5		0.5	0.25	0.15
46+175	LT	2		125	250	150
Total					150.15	

Full Depth Asphalt Patching Shoulders			
Station	Location	Area(m ²)	Base (Mg)
36+551	LT	18.6	11.2
36+551	RT	18.6	11.2
36+575	LT	18.6	11.2
36+575	RT	18.6	11.2
Total		44.6	

Joint Repairs		
From Station	To Station	# of Joint Repairs
34+800	35+100	20
35+100	39+700	70
39+700	41+300	54
41+300	44+300	75
44+300	46+365	41
Total		260
Special Treatment		240
Full Depth		20

Paving Exceptions at Bridges	
From Station	To Station
34+724	34+750
36+554	36+571
40+695	40+710
44+524	44+561
44+625	44+674

Joint repairs - HMA				
Special Trtmt.	HMA - milling (m ²)	Conc. Milling (m ²)		HMA for Patching
each	17.28	11.52		5.8
Total	4147.2	2764.8		1399.68
Full Depth	HMA - milling (m ²)	Conc. Removal	cubic meters	Mg
each	17.28	2.88		
Total	345.6	57.6	145.8	349.92

HMA For Patching Grand Total

1944.39

APPROACH TABLE

Commercial Drives

Station	Type of Drive	Width	Area (m ²)
39+245	commercial R	10.3	12.7
39+538	commercial L	43.5	45.9
39+560	commercial L	19.5	21.9
39+756	commercial R	18	20.4
39+800	commercial R	14.5	16.9
39+844	commercial R	13.5	15.9
42+125	commercial L	16.6	19
42+332	commercial R	21.2	23.6
42+400	commercial R	19	21.4
43+278	commercial L	13.5	15.9
43+670	commercial L	13	15.4
43+842	commercial R	25.5	27.9
45+059	commercial R	52.9	55.3
45+273	commercial R	18.9	21.3
45+389	commercial L	32.6	35
45+584	commercial R	42.6	45
45+627	commercial L	35	37.4
45+982	commercial R	62.5	64.9
46+028	commercial L	38	40.4
46+150	commercial R	14.4	16.8
46+250	commercial R	19	21.4
		TOTAL	594.4

APPROACH TABLE

Aggregate Drives

Station	Type of Drive	Width	Area (m ²)
35+371	private, agg R	10.6	13
35+425	private, agg R	10	12.4
35+731	private, agg L	14.1	16.5
35+848	private, agg L	26	28.4
36+892	private, agg R	15.6	18
36+932	private, agg R	6.8	9.2
37+167	private, agg L	6.5	8.9
37+189	private, agg L	5.5	7.9
37+400	private, agg R	65	67.4
38+450	private, agg R	8.2	10.6
38+732	private, agg R	24	26.4
38+944	agg & asph., shared	73	75.4
39+131	private, agg L	37	39.4
39+189	private, agg L	36	38.4
39+328	private, agg R	19	21.4
39+413	private, agg R	21	23.4
39+436	private, agg L	19	21.4
39+443	private, agg R	11.2	13.6
39+730	private, agg L	13.3	15.7
39+751	private, agg L	8.9	11.3
40+026	private, agg L	9	11.4
40+078	private, agg R	7.5	9.9
40+150	private, agg R	9	11.4
40+452	private, agg L	7	9.4
40+574	private, agg L	16	18.4
40+800	private, agg ** R		2.4
41+195	private, agg L	5.5	7.9
42+151	private, agg R	5.5	7.9
42+200	private, agg R	7.5	9.9
42+648	private, agg L	9.2	11.6
45+473	private, agg R	18.2	20.6
		TOTAL	599.5

APPROACH TABLE

Asphalt Drives

Station	Type of Drive	Width	Area (m ²)
37+135	private, asph. L	7	9.4
38+400	private, asph. R	32	34.4
38+600	private, asph. R	14.2	16.6
39+281	private, asph. R	8	10.4
39+475	private, asph. L	41	43.4
39+838	private, asph. L	10.3	12.7
39+875	private, asph. L	16	18.4
39+900	private, asph. L	6	8.4
39+932	private, asph. L	6.5	8.9
40+076	private, asph. L	8.2	10.6
40+132	private, asph. L	7	9.4
40+172	private, asph. L	6.7	9.1
41+161	private, asph. L	18.7	21.1
		TOTAL	212.8

APPROACH TABLE

Aggregate Drives with Mailbox Approach

Station	Type of Drive	Width	Area (m ²)
33+172	field access L	10	12.4
37+047	farm drive L	6	8.4
38+666	dbble. Private, agg R	34	36.4
40+022	comb., mb/pri. Asph R	17.8	20.2
41+595	comb., mb/pd agg R	14.1	16.5
42+153	comb., mb/pd agg L	19	21.4
42+532	comb., mb/pd agg L	27.5	29.9
43+841	comb., mb/pd agg L	19.5	21.9
		TOTAL	167.1

APPROACH TABLE

Mailbox Approaches

Station	Type of Drive	Width	Area (m ²)
36+897	mailbox approach	20	22.4
37+390	mailbox approach	24	36
38+665	mailbox approach	26	28.4
39+395	mailbox approach	37	85.1
41+603	mailbox approach	12.5	14.9
42+344	mailbox approach	18.1	20.5
43+852	new mailbox app.	15	17.4
		TOTAL	224.7

SUMMARY TABLE

Guardrail Remove and Reset

From Station	To Station		Length
36+425	36+700	right	275
36+500	36+675	left	175
40+650	40+840	left	190
40+650	40+750	right	100
44+375	44+500	left	125
44+375	44+500	right	125
44+675	44+930	left	255
44+675	44+930	right	255
		TOTAL	1500