

MINN. PROJ. NO. _____
 MINN. PROJ. NO. _____

MINNESOTA DEPARTMENT OF TRANSPORTATION

ANOKA COUNTY

CONSTRUCTION PLAN FOR MILL & OVERLAY, RT TURN/ BY-PASS LANE CONSTR., SUBSURFACE DRAINAGE
 LOCATED ON C.S.A.H. NO. 10 BETWEEN C.S.A.H. NO. 49 AND C.S.A.H. NO. 21 (Geographic Description)
 FROM _____ TO _____ (Legal Description)

COUNTY PROJ. NO. 00-01-00 SUBPROJ. NO. 00-06-10

GROSS LENGTH <u>18719.00</u> FEET <u>3.545</u> MILES	GROSS LENGTH _____ FEET _____ MILES
BRIDGES-LENGTH <u>0.00</u> FEET <u>0.000</u> MILES	BRIDGES-LENGTH _____ FEET _____ MILES
EXCEPTIONS-LENGTH <u>0.00</u> FEET <u>0.000</u> MILES	EXCEPTIONS-LENGTH _____ FEET _____ MILES
NET LENGTH <u>18719.00</u> FEET <u>3.545</u> MILES	NET LENGTH _____ FEET _____ MILES

GOVERNING SPECIFICATIONS
 THE 1995 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION
 "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AS AMENDED BY
 SUPPLEMENTAL SPECIFICATIONS, DATED NOVEMBER 20, 1995 SHALL GOVERN.

SHEET NO.	INDEX	DESCRIPTION
1	TITLE SHEET	
2	STATEMENT OF ESTIMATED QUANTITIES	
3	TYPICAL SECTIONS	
4 - 5	STANDARD DETAILS	
6 - 11	PLAN SHEETS	
12 - 20	CROSS-SECTIONS	
21 - 28	SIGN/STRIPPING	

THIS PLAN CONTAINS 28 SHEETS
 DESIGN DESIGNATION

\$N1820 _____
 R VALUE _____
 ADT (2000) = 11654
 Proj. ADT (2020) = 19812
 Proj. HCADT (2020) = 1169
 Soil Factor _____
 _____ TON DESIGN
 Shoulder Width 10'

Functional Classification _____
 No. of Traffic Lanes 2 No. of Parking Lanes 0
 Design Speed _____ MPH
 Based on Stopping Sight Distance _____
 Height of eye _____ Height of object _____
 Design Speed not achieved at: _____
 STA. _____ TO STA. _____ MPH
 STA. _____ TO STA. _____ MPH
 STA. _____ TO STA. _____ MPH

Approved 6/7/00 _____
 ANOKA COUNTY ENGINEER

Jon

PLAN SYMBOLS

- COUNTY LINE _____
- TOWNSHIP OR RANGE LINE _____
- SECTION LINE _____
- QUARTER LINE _____
- SIXTEENTH LINE _____
- RIGHT OF WAY LINE _____
- SLOPE EASEMENT _____
- PRESENT RIGHT OF WAY _____
- PROPERTY LINE _____
- CORPORATE OR CITY LIMITS _____
- RETAINING WALL _____
- RAILROAD _____
- RAILROAD RIGHT OF WAY _____
- RIVER OR CREEK _____
- DRAINAGE DITCH _____
- CULVERT _____
- DROP INLET _____
- GAUDD RAIL _____
- BARBED WIRE FENCE _____
- WOVEN WIRE FENCE _____
- CHAIN LINK FENCE _____
- WOOD FENCE _____
- STONE WALL OR FENCE _____
- HEDGE _____

- LOWLAND _____
- TIMBER _____
- ORCHARD _____
- BRUSH _____
- NURSERY _____

- CATTLE GAULD _____

- OVERPASS (Highway Over) _____

- UNDERPASS (Highway Under) _____

- BRIDGE _____

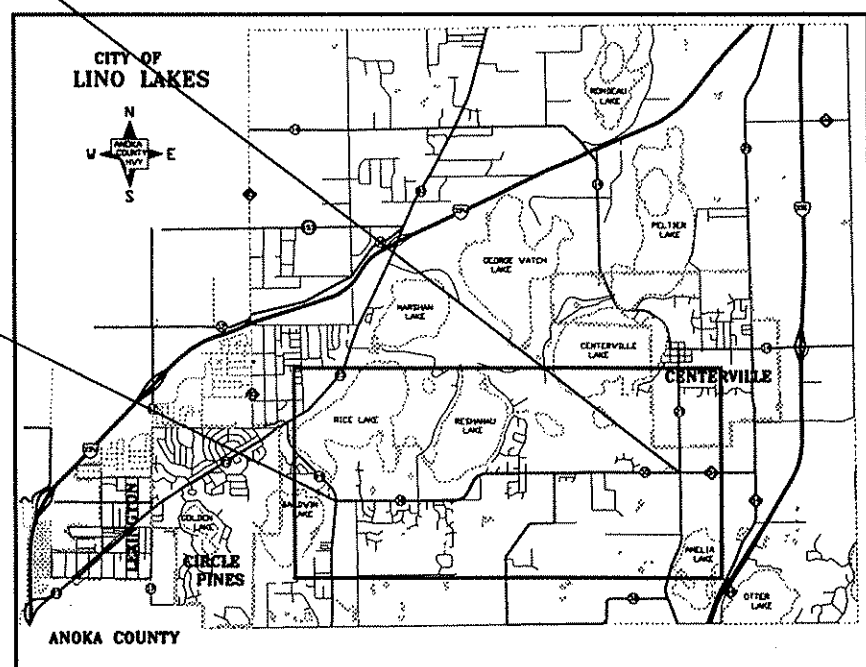
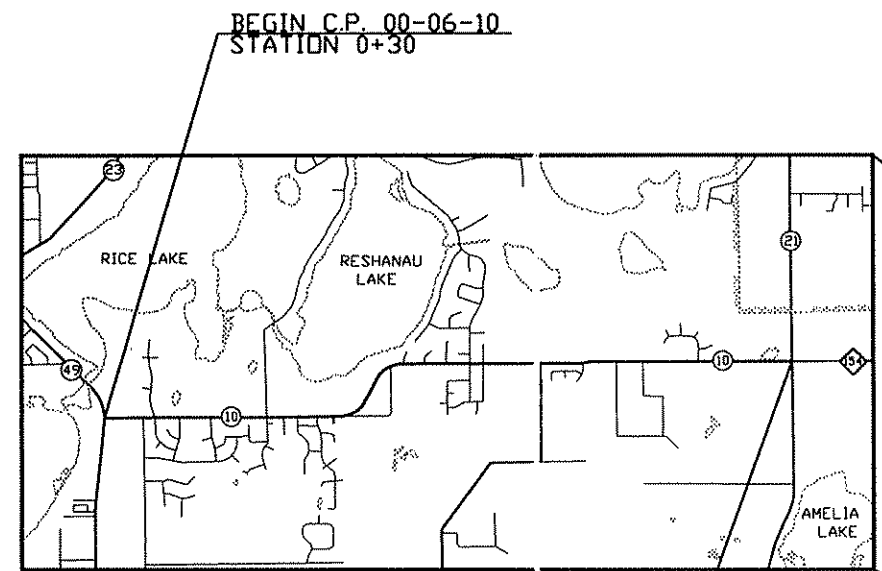
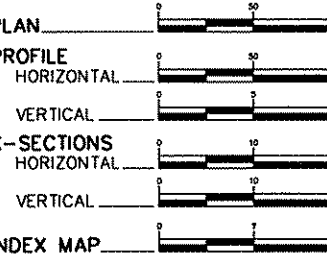
- BUILDING (One Story Frame) _____
- F-FRAME C-CONCRETE
- S-STONE T-TILE
- B-BRICK ST-STUCCO

- RAILROAD CROSSING BELL _____
- RAILROAD CROSSING GATE _____
- MANHOLE _____
- CATCH BASIN _____
- FIRE HYDRANT _____
- CAST IRON MONUMENT _____
- IRON PIN _____
- GRAVEL PIT _____
- SAND PIT _____
- BORROW PIT _____
- ROCK QUARRY _____

UTILITY SYMBOLS

- POWER POLE LINE _____
- TELEPHONE OR TELEGRAPH _____
- POLE LINE _____
- JOINT TELEPHONE & POWER _____
- ON POWER POLES _____
- ON TELEPHONE POLES _____
- ANCHOR _____
- STEEL TOWER _____
- STREET LIGHT _____
- PEDESTAL (Cable Terminal) _____
- GAS MAIN _____
- WATERMAIN _____
- TELEPHONE CABLE IN CONDUIT _____
- ELECTRIC CABLE IN CONDUIT _____
- TELEPHONE MANHOLE _____
- ELECTRIC MANHOLE _____
- BURIED TELEPHONE CABLE _____
- BURIED ELECTRIC CABLE _____
- AERIAL TELEPHONE CABLE _____
- SEWER (Sanitary or Storm) _____
- SEWER MANHOLE _____

SCALES



I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A duly REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE 6/6/2000 REG. NO. 25066

DRAWN BY GA DATE 06/06/00
 DESIGN BY KGL DATE 06/06/00
 CHECKED BY OK DATE 06/06/00

INDEX MAP
ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 00-06-10
 COUNTY SUB PROJECT NO. 00-01-00

TITLE SHEET

Sheet 1 of 28 Sheets

NO.	DATE	BY	CHKD	APPR	REVISION

NAME: 000100.dwg 6-6-00 4:28:58 pm EST

STATEMENT OF ESTIMATED QUANTITIES

CHART NO.	ITEM NO.	ITEM	UNIT	ANOKA COUNTY C. P. 00-01-00	
				ESTIMATED	FINAL
	2013.601	CELLULAR MOBILE TELEPHONE	L\$	1	
	2021.501	MOBILIZATION	L\$	1	
A	2104.501	REMOVE BITUMINOUS CURB	LF	304	
	2104.503	REMOVE BITUMINOUS PAVEMENT	SY	798	
①	2104.513	SAWING BITUMINOUS PAVEMENT	LF	1437	
	2105.501	COMMON EXCAVATION (EV)	CY	1976 (P)	
	2120.501	EARTH SHOULDERING	CY	1775	
②	2123.503	MOTOR GRADER	HDJR	18	
③	2130.501	WATER	M-CAL	20	
④	2211.501	AGGREGATE BASE CLASS-5 (LV)	TIN	1160	
⑤	2232.501	MILL BITUMINOUS SURFACE (1.5"+) APPROACHES	SY	996	
⑥	2232.501	MILL BITUMINOUS SURFACE (2") ROADWAY	SY	92886	
⑦	2350.604	TYPE LV 4 WEARING COURSE MIXTURE 2" THICK	SY	1451	
	2350.609	TYPE MV 4 WEARING COURSE MIXTURE	TIN	10535	
	2350.609	TYPE LV 3 NON WEARING COURSE MIXTURE	TIN	2300	
	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL/DN	3760	
	2502.541	4" PERF TP PIPE DRAIN	LF	1735	
	2502.601	PRECAST CONCRETE HEADWALL	EACH	5	
A	2531.501	CONCRETE CURB AND GUTTER DESIGN B 418	LF	3272	
	2540.602	INSTALL MAIL BOX SUPPORT	EACH	52	
	2563.501	TRAFFIC CONTROL	L\$	1	
	2564.531	F & I SIGN PANEL TYPE C	SY	177.91	
	2564.603	4" SOLID LINE WHITE-PAINT	LF	44323	
	2564.603	4" SOLID LINE YELLOW-PAINT	LF	7000	
	2564.603	4" BROKEN LINE WHITE-PAINT	LF	240	
	2564.603	4" BROKEN LINE YELLOW-PAINT	LF	2689	
	2564.603	4" DOUBLE SOLID LINE YELLOW-PAINT	LF	8928	
B	2573.508	BITUMINOUS LINED FLUME	SY	38.5	
	2575.501	SEEDING	ACRE	4.3	
	2575.502	SEED MIXTURE 40A	POUND	301	
	2575.512	MULCH MATERIAL TYPE 2	GAL/DN	3706	
	2575.532	COMMERCIAL FERTILIZER ANALYSIS 10-10-10	LB	2150	
	2580.501	TEMPORARY LANE MARKING	LF	2995	

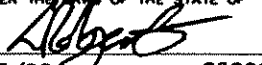

- ① FOR RESTORATION OF BITUMINOUS ENTRANCES AND STREET APPROACHES.
- ② FOR FINAL SHAPING & COMPACTION OF 10' AGGREGATE SHOULDERS PRIOR TO PAVING.
- ③ FOR DUST CONTROL AS DIRECTED BY THE ENGINEER.
- ④ 63 TON FOR RESTORATION OF AGGREGATE ENTRANCES.
- ⑤ FOR BUTT JOINT MILLING AT STREET APPROACHES AND BIT. ENTRANCES AS DIRECTED BY THE ENGINEER.
- ⑥ INCLUDES APPROX. 4045 SQ.YDS. OF 2"- 3.5" FULL DEPTH MILLING OF EXISTING TURN LANES, AREAS IDENTIFIED ON SHEET 3.

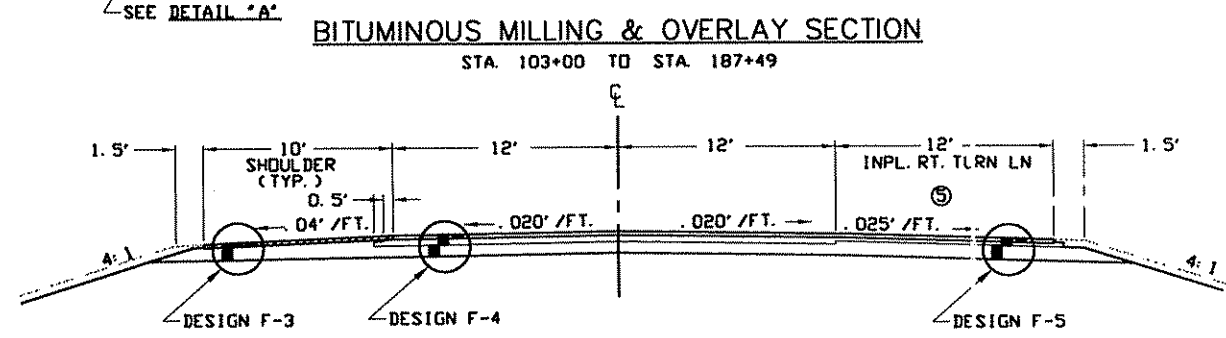
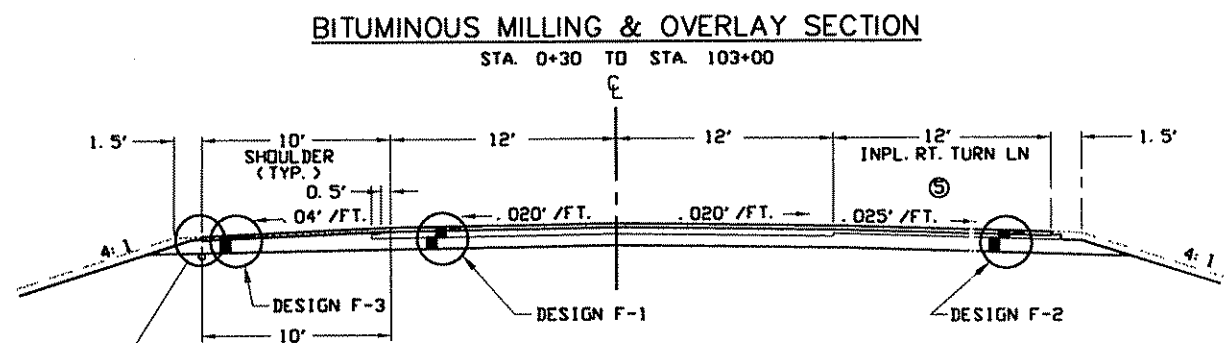
BASIS OF PLANNED QUANTITIES

- 2120 EARTH SHOULDERING: 250 CU.YDS./MILE PER SIDE.
- 2350 TYPE MV 4 WEARING COURSE MIXTURE: 110 LBS./SQ.YD. PER 1" THICKNESS.
- 2350 TYPE LV 3 NON WEARING COURSE MIXTURE: 120 LBS./SQ.YD. PER 1" THICKNESS.
- 2357 BITUMINOUS MATERIAL FOR TACK COAT: 0.05 GAL./SQ.YD. PER LIFT APPLIED.
- 2575 SEEDING: BASED ON HORIZONTAL MEASUREMENT +10%.
- 2575 SEED MIXTURE 40A: 70 LBS./ACRE.
- 2575 MULCH MATERIAL TYPE 2: 0.18 GAL./SQ.YD.
- 2575 COMMERCIAL FERTILIZER ANALYSIS 10-10-10 (OR EQUIVALENT): 500 LBS./ACRE.

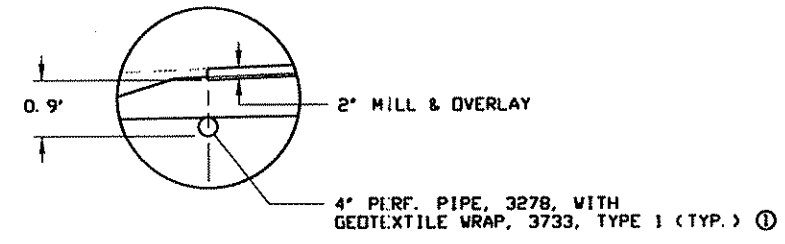
STANDARD PLATES	
THESE STANDARD PLATES AS APPROVED BY THE FHWA SHALL APPLY.	
PLATE NO.	DESCRIPTION
0004 A	SPECIFICATION REFERENCE TO STANDARD PLATES
3131 B	PRECAST CONCRETE HEADWALL FOR SUBSURFACE DRAINS
7100 G	CONCRETE CURB AND GUTTER
8000 I	STANDARD BARRICADES

INDEX OF TABULATION CHARTS		
CHART	SHEET No.	DESCRIPTION
A	4	BITUMINOUS CURB CONSTRUCTION
B	4	BITUMINOUS FLUME LOCATIONS

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  DATE 05/23/00 REG. NO. 25066					DRAWN BY GA DATE 05/23/00 DESIGN BY KGJ DATE 05/23/00 CHECKED BY LAR DATE 05/23/00	 ANOKA COUNTY HIGHWAY DEPT.	STATE PROJECT NO. _____ STATE AID PROJECT NO. _____ SUBPROJECT NO. 00-06-10 COUNTY PROJECT NO. 00-01-00	ESTIMATED QUANTITIES Sheet 2 of 28 Sheets		
NO	DATE	BY	CKD	APPR	REVISION					

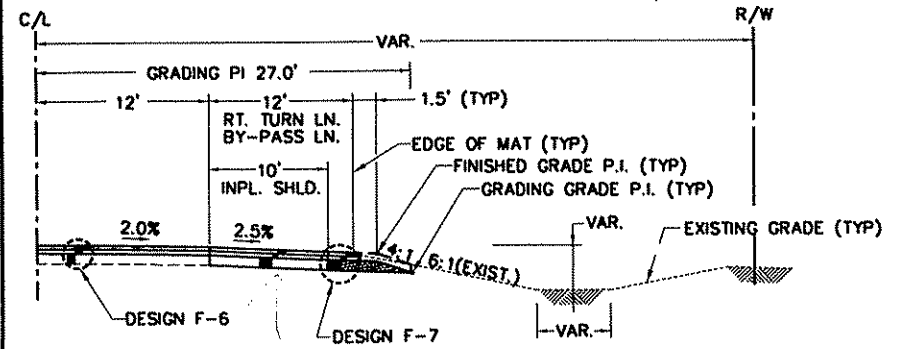
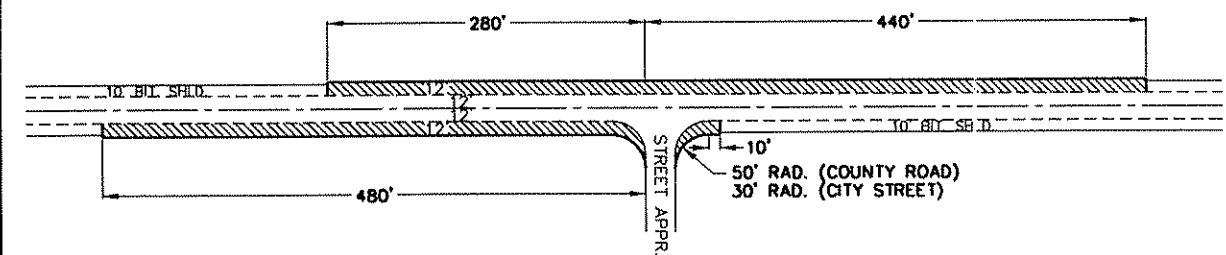


① LOC. LT. & RT., SEE PLAN SHEETS FOR LOCATIONS



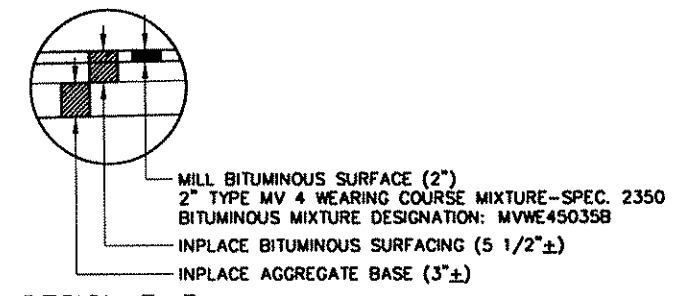
DETAIL "A"

TYPICAL RT. TURN & BY-PASS LANE CONSTRUCTION



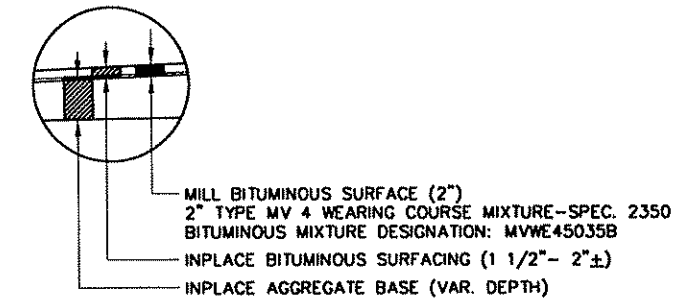
NOTE: INPL. 1.5" - 2" BIT. SURFACE TO BE REMOVED (MILLED).
SEE EXISTING RT.TN.LN. CHART NOTE FOR AREAS OF DEEPER MILLING.

DESIGN F-1



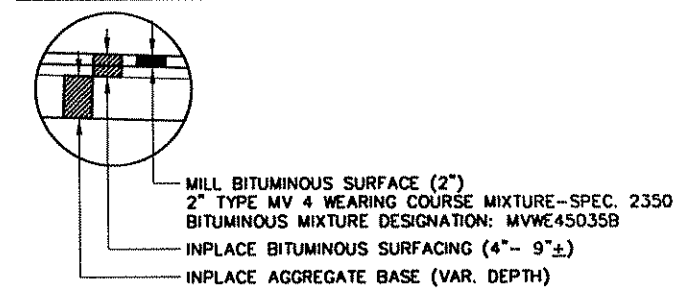
MILL BITUMINOUS SURFACE (2")
2" TYPE MV 4 WEARING COURSE MIXTURE-SPEC. 2350
BITUMINOUS MIXTURE DESIGNATION: MVWE45035B
INPLACE BITUMINOUS SURFACING (5 1/2"±)
INPLACE AGGREGATE BASE (3"±)

DESIGN F-3



MILL BITUMINOUS SURFACE (2")
2" TYPE MV 4 WEARING COURSE MIXTURE-SPEC. 2350
BITUMINOUS MIXTURE DESIGNATION: MVWE45035B
INPLACE BITUMINOUS SURFACING (1 1/2" - 2"±)
INPLACE AGGREGATE BASE (VAR. DEPTH)

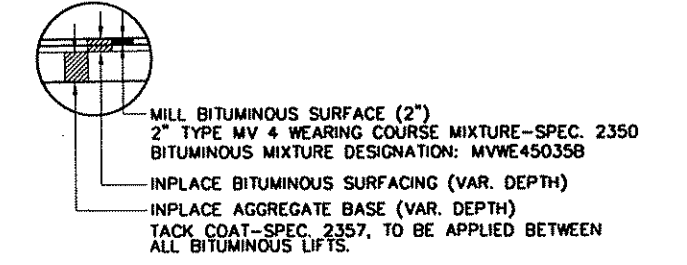
DESIGN F-5



MILL BITUMINOUS SURFACE (2")
2" TYPE MV 4 WEARING COURSE MIXTURE-SPEC. 2350
BITUMINOUS MIXTURE DESIGNATION: MVWE45035B
INPLACE BITUMINOUS SURFACING (4" - 9"±)
INPLACE AGGREGATE BASE (VAR. DEPTH)

DESIGN F-6

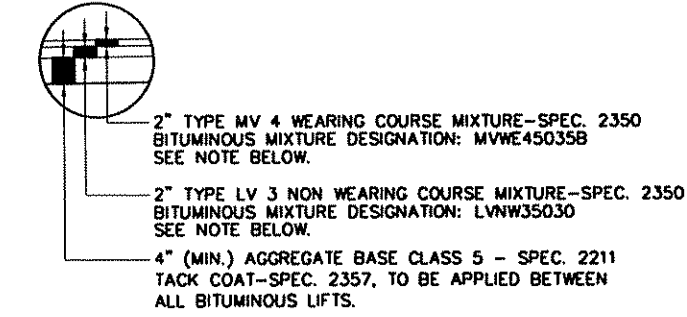
(BITUMINOUS MILL & OVERLAY)



MILL BITUMINOUS SURFACE (2")
2" TYPE MV 4 WEARING COURSE MIXTURE-SPEC. 2350
BITUMINOUS MIXTURE DESIGNATION: MVWE45035B
INPLACE BITUMINOUS SURFACING (VAR. DEPTH)
INPLACE AGGREGATE BASE (VAR. DEPTH)
TACK COAT-SPEC. 2357, TO BE APPLIED BETWEEN ALL BITUMINOUS LIFTS.

DESIGN F-7

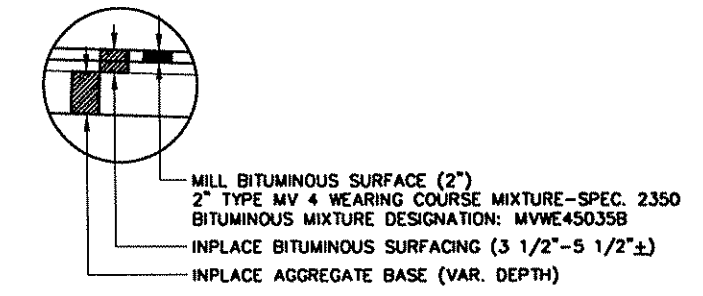
(RT TURN/BY-PASS LANES)



2" TYPE MV 4 WEARING COURSE MIXTURE-SPEC. 2350
BITUMINOUS MIXTURE DESIGNATION: MVWE45035B
SEE NOTE BELOW.
2" TYPE LV 3 NON WEARING COURSE MIXTURE-SPEC. 2350
BITUMINOUS MIXTURE DESIGNATION: LVNW35030
SEE NOTE BELOW.
4" (MIN.) AGGREGATE BASE CLASS 5 - SPEC. 2211
TACK COAT-SPEC. 2357, TO BE APPLIED BETWEEN ALL BITUMINOUS LIFTS.

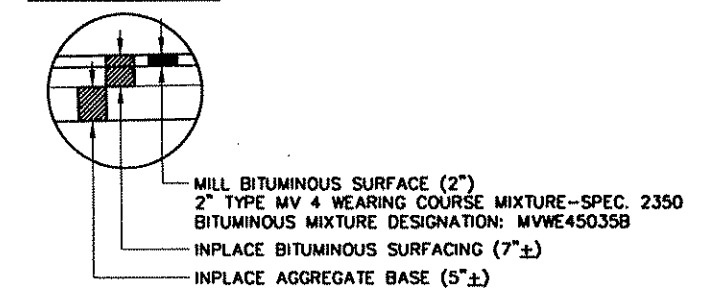
NOTE:
TACK COAT - SPEC. 2357, TO BE APPLIED BETWEEN ALL BITUMINOUS LIFTS.

DESIGN F-2



MILL BITUMINOUS SURFACE (2")
2" TYPE MV 4 WEARING COURSE MIXTURE-SPEC. 2350
BITUMINOUS MIXTURE DESIGNATION: MVWE45035B
INPLACE BITUMINOUS SURFACING (3 1/2"-5 1/2"±)
INPLACE AGGREGATE BASE (VAR. DEPTH)

DESIGN F-4



MILL BITUMINOUS SURFACE (2")
2" TYPE MV 4 WEARING COURSE MIXTURE-SPEC. 2350
BITUMINOUS MIXTURE DESIGNATION: MVWE45035B
INPLACE BITUMINOUS SURFACING (7"±)
INPLACE AGGREGATE BASE (5"±)

EXISTING RT. TURN & BYPASS LANES				
STA. TO STA.	LDC.	RT. TURN LANE	BY-PASS LANE	REMARKS
0+30-5+10	L.T.	X		CSAH 49
5+54-10+34	RT.	X		WARD RD.
14+03-18+83	L.T.	X		HOKAH DR.
10+34-20+02	RT.	X		TOTEM TR.
31+26-37+52	L.T.	X		SCHOOL ENT.
37+52-42+32	L.T.	X		SCHOOL ENT.
38+44-43+24	RT.	X		SHADOW LAKE DR.
43+58-48+38	L.T.	X		SHADOW LAKE DR.
61+35-66+15	RT.	X		OLD BIRCH ST.
77+07-81+87	RT.	X		OLD BIRCH ST.
103+29-106+88	L.T.	X		BLACK DUCK DR.
106+88-111+68	RT.	X		PHEASANT RUN
116+89-121+69	RT.	X		12TH AVE.
136+94-141+74	RT.	X		JOYNER LN.
143+54-148+34	RT.	X		GAAGE LN.
182+69-187+49	RT.	X		CSAH 21

* INDICATES TURN LANES THAT REQUIRE FULL DEPTH MILLING (2"-3.5") AND RECONSTRUCTION AS PER DESIGN F-7.

PROPOSED RT. TURN & BYPASS LN. CONSTR.				
STA. TO STA.	LDC.	RT. TURN LANE	BY-PASS LANE	REMARKS
23+57-28+37	RT.	X		TOMAHAWK TRAIL
43+72-56+69	RT.	X		KINGFISCHER CT., FAWN LN., DEERWOOD LN.
51+84-56+64	L.T.	X		FAWN LN.
59+79-64+59	L.T.	X		DEERWOOD LN.
85+90-93+10	RT.		X	WHITE BIRCH CT.
86+51-95+10	L.T.	X		E. SHADOW LK CT., WHITE BIRCH CT.
96+60-101+40	L.T.	X		RED BIRCH CT.
98+19-106+64	RT.	X		BLACK DUCK DR., PHEASANT RUN
116+18-126+09	L.T.	X		WILD TURKEY TR.
128+29-133+09	RT.	X	X	12TH AVE.
130+29-137+49	L.T.	X	X	WHITE OAK RD.
138+94-146+14	L.T.		X	JOYNER LN.
148+74-153+54	L.T.	X		TIMBER WOLF TERRACE
157+94-165+14	RT.		X	PHEASANT HILLS DR.
162+34-167+14	L.T.	X		PHEASANT HILLS DR.
169+49-174+29	L.T.	X		SHERMAN LAKE RD.

NOTE:
NOT TO SCALE

NO.	DATE	BY	CKD	APPR	REVISION

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A FULLY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Albert
DATE 05/23/00 REG. NO. 25066

DRAWN BY: GA DATE 05/23/00
DESIGN BY: KGL DATE 05/23/00
CHECKED BY: LAR DATE 05/23/00



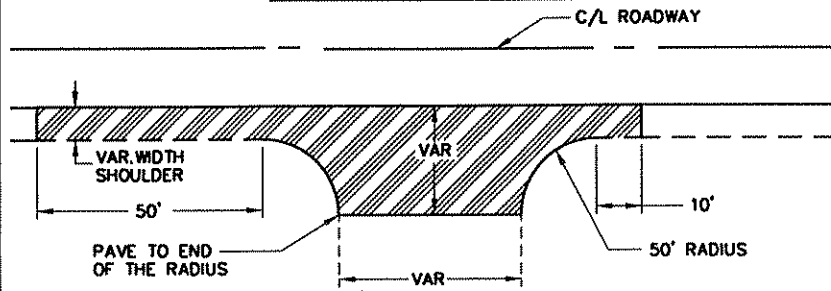
ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
STATE AID PROJECT NO. _____
SUBPROJECT NO. 00-06-10
COUNTY PROJECT NO. 00-01-00

TYPICAL SECTIONS
Sheet 3 of 28 Sheets

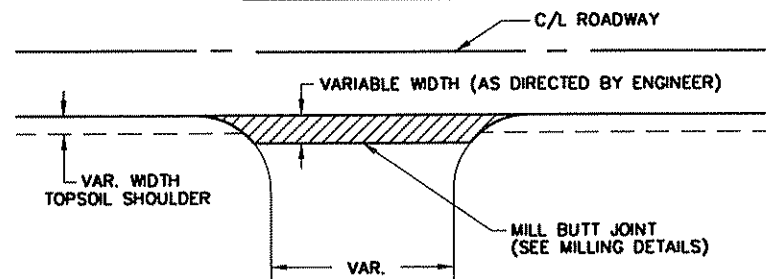
TYPICAL STREET APPROACHES

UNPAVED STREET APPROACHES



NOTE: PAID FOR AS ITEM NO. 2331.604
(2" THICK BITUMINOUS WEARING COURSE)

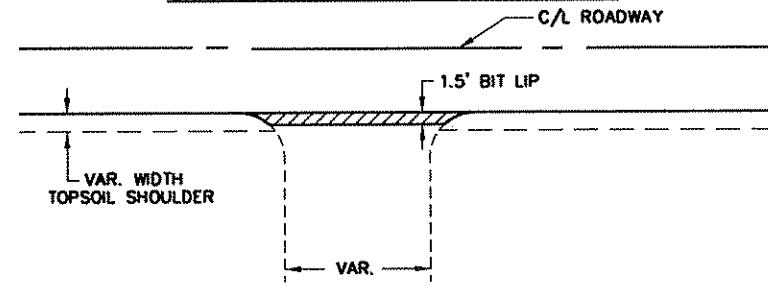
PAVED STREET APPROACHES



NOTE: KICKOUT PAID FOR AS ITEM NO. 2350.609 (TYPE MV 4 WEARING COURSE MIXTURE)/ OR KICKOUT PAID FOR AS ITEM NO. 2331.604 (2" THICK BITUMINOUS WEARING COURSE)

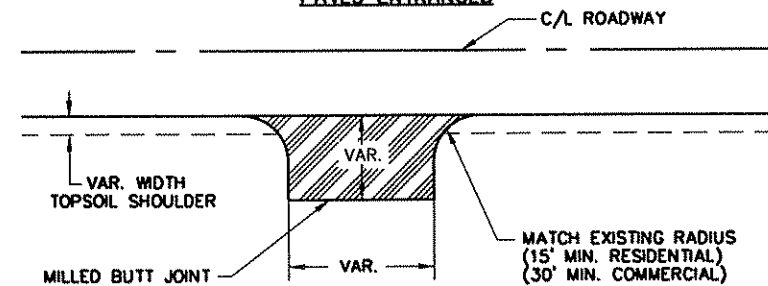
TYPICAL ENTRANCES

UNPAVED DRIVEWAY AND FIELD ENTRANCES



NOTE: KICKOUT PAID FOR AS ITEM NO. 2350.609
(TYPE MV 4 WEARING COURSE MIXTURE)

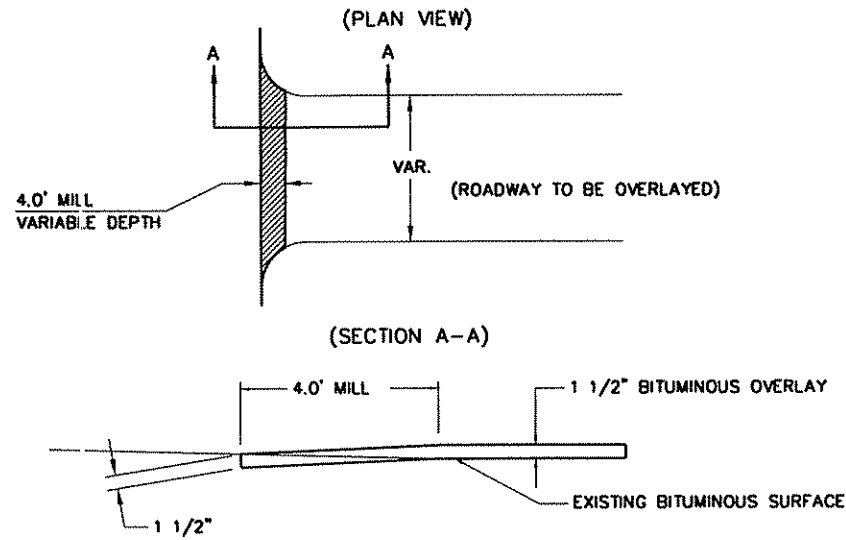
PAVED ENTRANCES



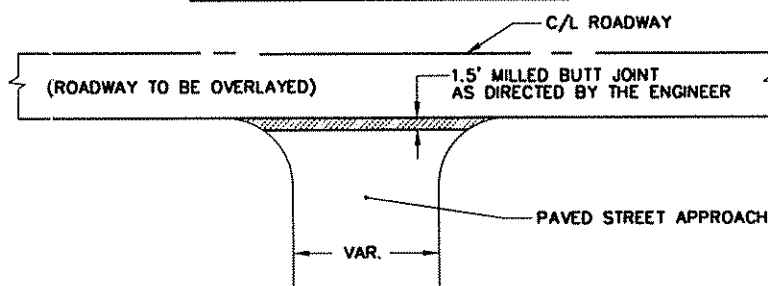
NOTE: PAID FOR AS ITEM NO. 2331.604
(2" THICK BITUMINOUS WEARING COURSE)

MILLING DETAILS

BUTT JOINTS



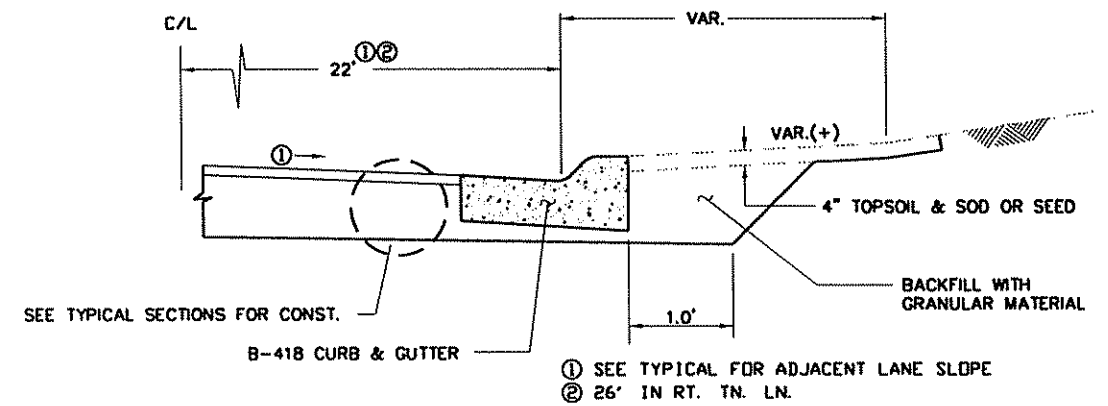
PAVED STREET APPR. & ENTRANCES



(NOT TO SCALE)

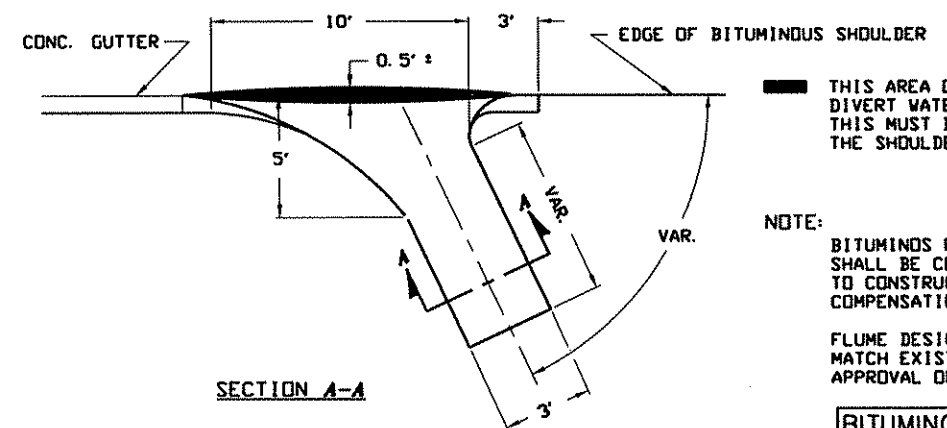
CONCRETE CURB CONST. DETAIL

STANDARD PLATE NO. M7100
(USE IN BERM LOCATIONS)



CONCRETE CURB CONSTRUCTION (A)			
STATION - STATION	LOCATION	LIN. FT.	REMARKS
13+95-19+47	26.0' RT	568	
13+99-20+40	26.0' LT	647	REMOVE INPL. BIT. CURB (Ø23' LT)
25+35-28+37	23.0' LT	302	REMOVE INPL. BIT. CURB (Ø23' LT)
89+75-93+75	26.0' RT	400	
92+02-93+67	26.0' LT	647	
98+93-101+64	26.0' RT	271	
182+75-187+12	26.0' RT	437	
TOTAL =		3272	

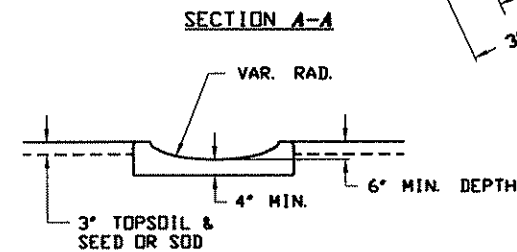
TYPICAL BITUMINOUS FLUME



THIS AREA OF INCREASED SLOPE TO DIVERT WATER FLOW INTO FLUME. THIS MUST BE ACCOMPLISHED DURING THE SHOULDER PAVING OPERATION.

NOTE: BITUMINOUS FLUME CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO ADDITIONAL COMPENSATION SHALL BE MADE.

FLUME DESIGN MAY BE MODIFIED TO MATCH EXISTING CONDITIONS UPON APPROVAL OF THE ENGINEER.



* LOCATIONS ARE APPROX. EXACT LOCATIONS ARE TO BE DETERMINED IN THE FIELD DURING CONST.

BITUMINOUS FLUME LOC. (B)		
STATION	LOC.	SQ. YDS.
19+47	RT.	5.5
20+40	LT.	5.5
25+30	LT.	5.5
89+70	RT.	5.5
91+97	LT.	5.5
101+68	RT.	5.5
182+69	RT.	5.5
TOTAL		38.5

NO.	DATE	BY	CHKD	APPR	REVISION

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE 05/23/00 REG. NO. 25066

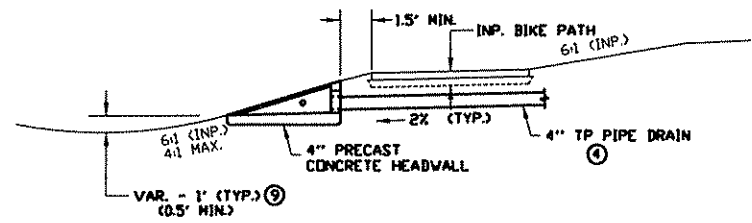
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 DESIGN BY: K.G.J. DATE: 05/23/00
 CHECKED BY: LAR DATE: 05/23/00



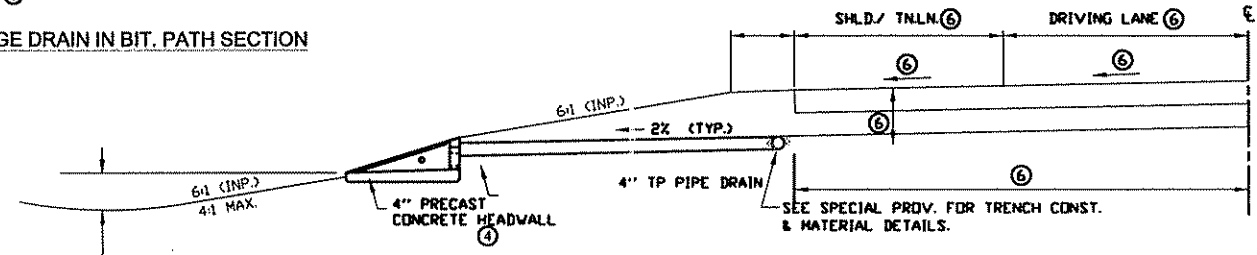
ANOKA COUNTY HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 SUBPROJECT NO. 00-06-10
 COUNTY PROJECT NO. 00-01-00

TYPICAL SECTIONS
 Sheet 4 of 28 Sheets

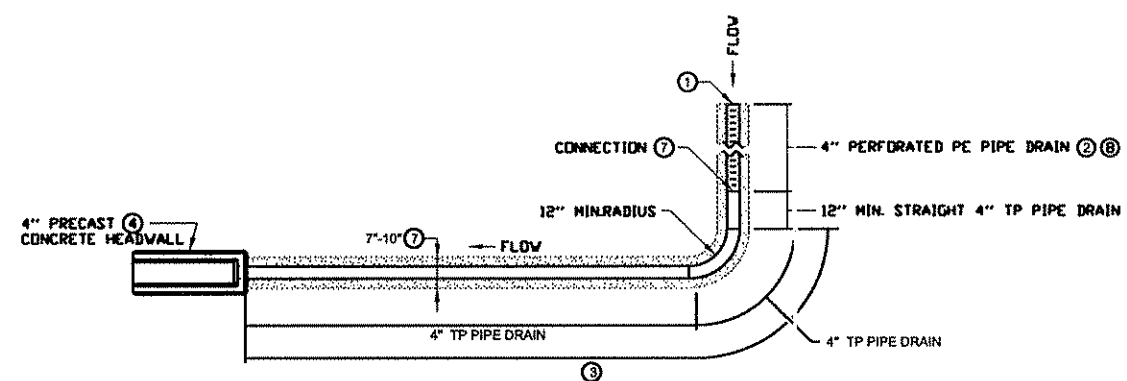


TYPICAL EDGE DRAIN IN BIT. PATH SECTION

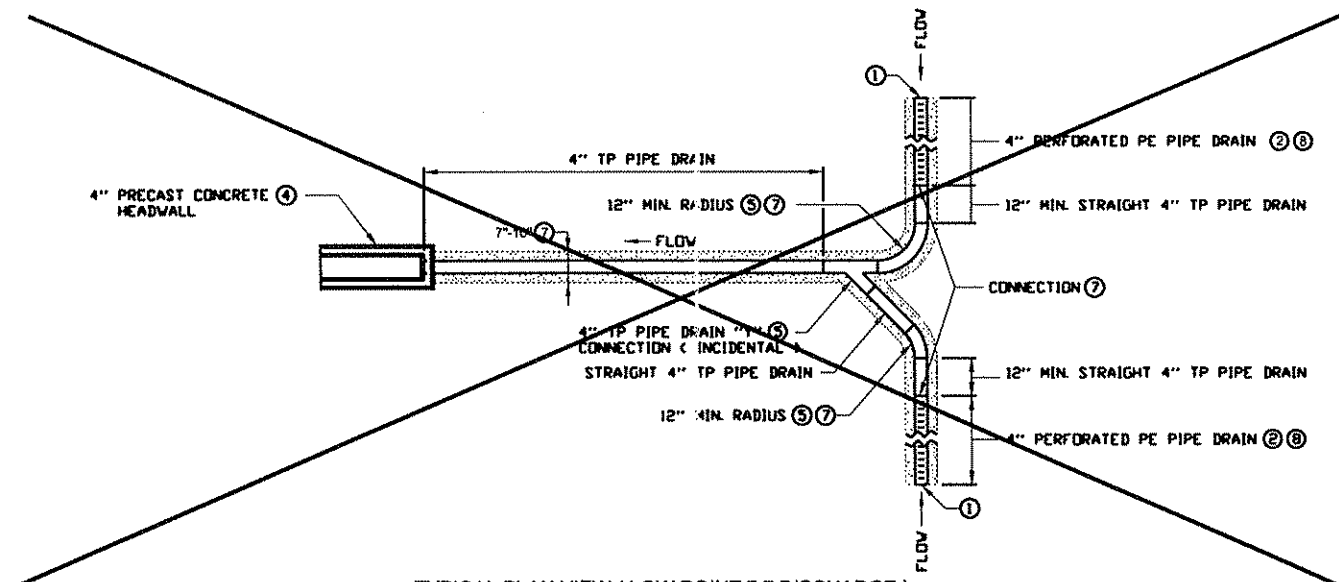


SECTION VIEW
TYPICAL EDGE DRAIN AND DISCHARGE CROSS SECTION ⑦
(SEE TABULATION ON THIS SHEET FOR LOCATIONS)

PROPOSED SUBSURFACE DRAIN LOCATIONS				
STA. TO STA.	LOC.	4" TP PIPE L.F.	PRECAST HEADWALL EACH	REMARKS
67+50 - 72+00	L.T.	443	1	
72+05 - 73+55	L.T.	157	1	
73+75 - 77+29	RT.	355	1	
77+34 - 81+05	RT.	366	1	
81+27 - 85+48	RT.	414	1	
TOTALS		1735	5	



TYPICAL PLAN VIEW (SINGLE DISCHARGE) ⑦
(SEE TABULATION ON THIS SHEET FOR LOCATIONS)



TYPICAL PLAN VIEW (LOW POINT "Y" DISCHARGE)
(SEE TABULATION ON THIS SHEET FOR LOCATIONS)

- NOTES:
- ① THE UPSTREAM ENDS OF THE PERFORATED PIPE SHALL BE CAPPED AS APPROVED BY THE PROJECT ENGINEER, AND CAPS SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS. PLACE PERFORATED PIPE WITH THE PERFORATIONS DOWN.
 - ② MAXIMUM LENGTH 500 FT., EXCEPT 300 FT. MAXIMUM FOR GRADES LESS THAN 0.2% LENGTH INCLUDED AND PAID FOR AS ITEM 2502.541, 4" PERFORATED PE PIPE DRAIN.
 - ③ LENGTH INCLUDED AND PAID FOR AS ITEM 2502.521, 4" TP PIPE DRAIN.
 - ④ PRECAST CONCRETE HEADWALL, STANDARD PLATE 3131, PAID FOR AS 2502.601 4" PRECAST CONCRETE HEADWALL.
 - ⑤ DETAILS OF CONNECTION AND COUPLING TO PE PIPE TO BE APPROVED BY THE ENGINEER. PAYMENT FOR "Y" AND EXTRA CONNECTION, 12" TP PIPE AND COUPLING TO BE INCIDENTAL TO ITEM 2502.541, 4" TP PIPE DRAIN.
 - ⑥ SEE ROADWAY TYPICAL SECTIONS FOR ADDITIONAL INFORMATION.
 - ⑦ SEE SPECIAL PROVISIONS FOR MATERIAL AND CONSTRUCTION DETAILS.
 - ⑧ 3" OR 4" DIAMETER.
 - ⑨ WHERE .5' NOT ACHIEVABLE OUTLET AT DITCH ELEV.

NO	DATE	BY	CKD	APPR	REVISION

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Albert

DATE 05/23/00 REG. NO. 25066

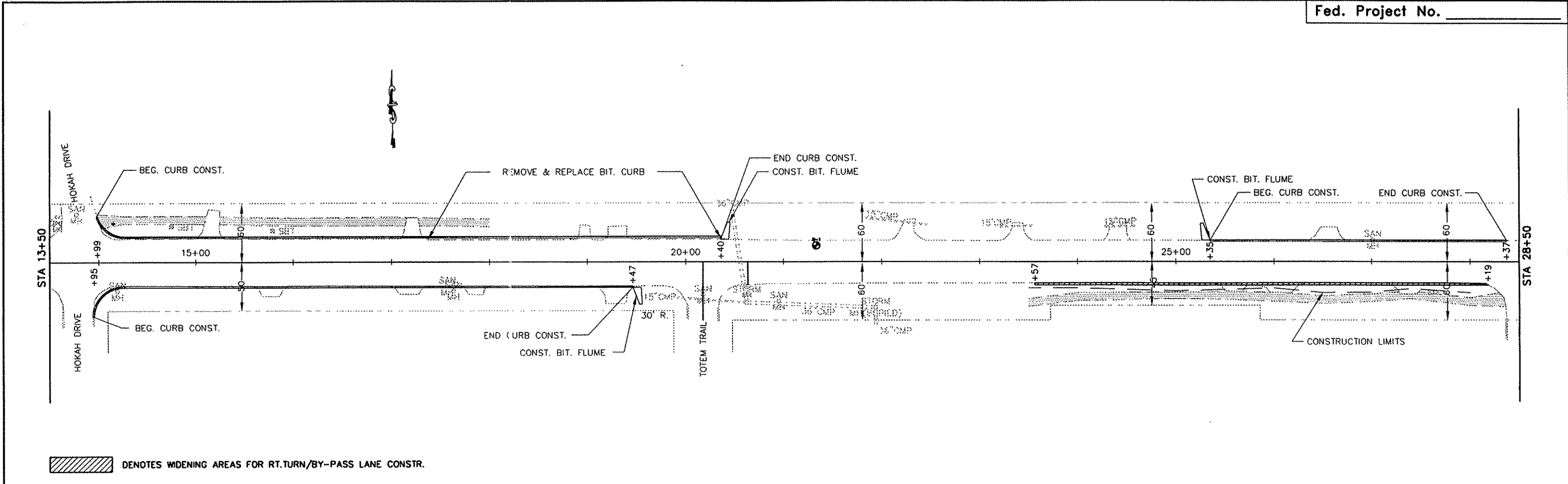
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DESIGN BY KGJ DATE 05/23/00
CHECKED BY LAR DATE 05/23/00



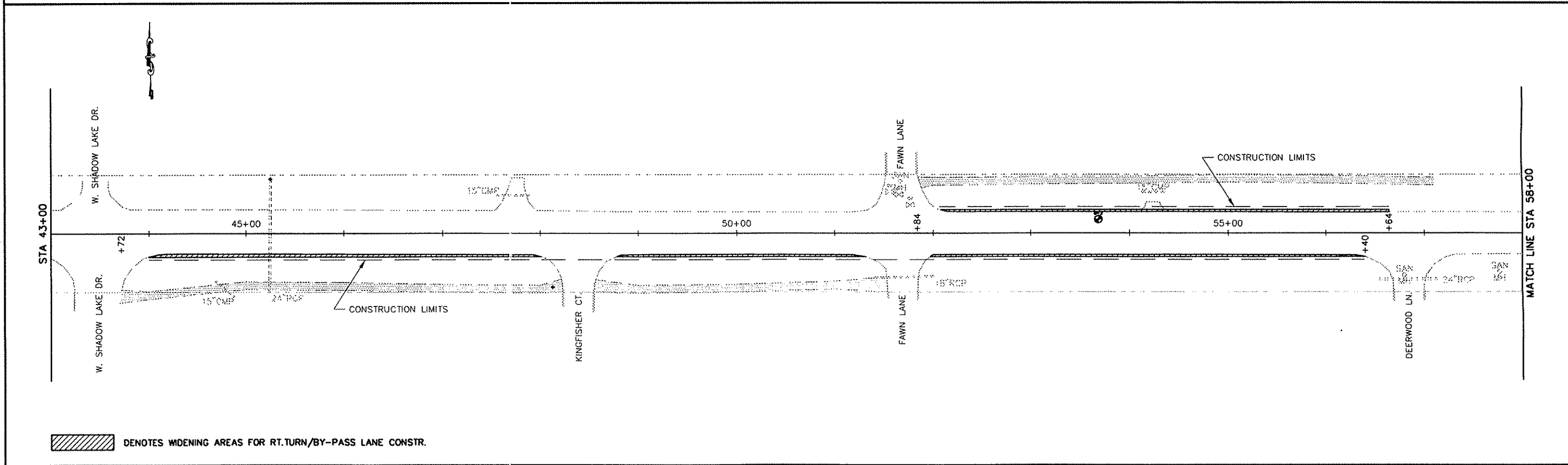
ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
STATE AID PROJECT NO. _____
SUBPROJECT NO. 00-06-10
COUNTY PROJECT NO. 00-01-00

SUBSURFACE DRAIN
DETAILS
Sheet 5 of 28 Sheets



 DENOTES WIDENING AREAS FOR RT.TURN/BY-PASS LANE CONSTR.



 DENOTES WIDENING AREAS FOR RT.TURN/BY-PASS LANE CONSTR.

NO	DATE	BY	CHKD	APPR	REVISION

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

[Signature]
 DATE 6/17/00 REG. NO. 26826

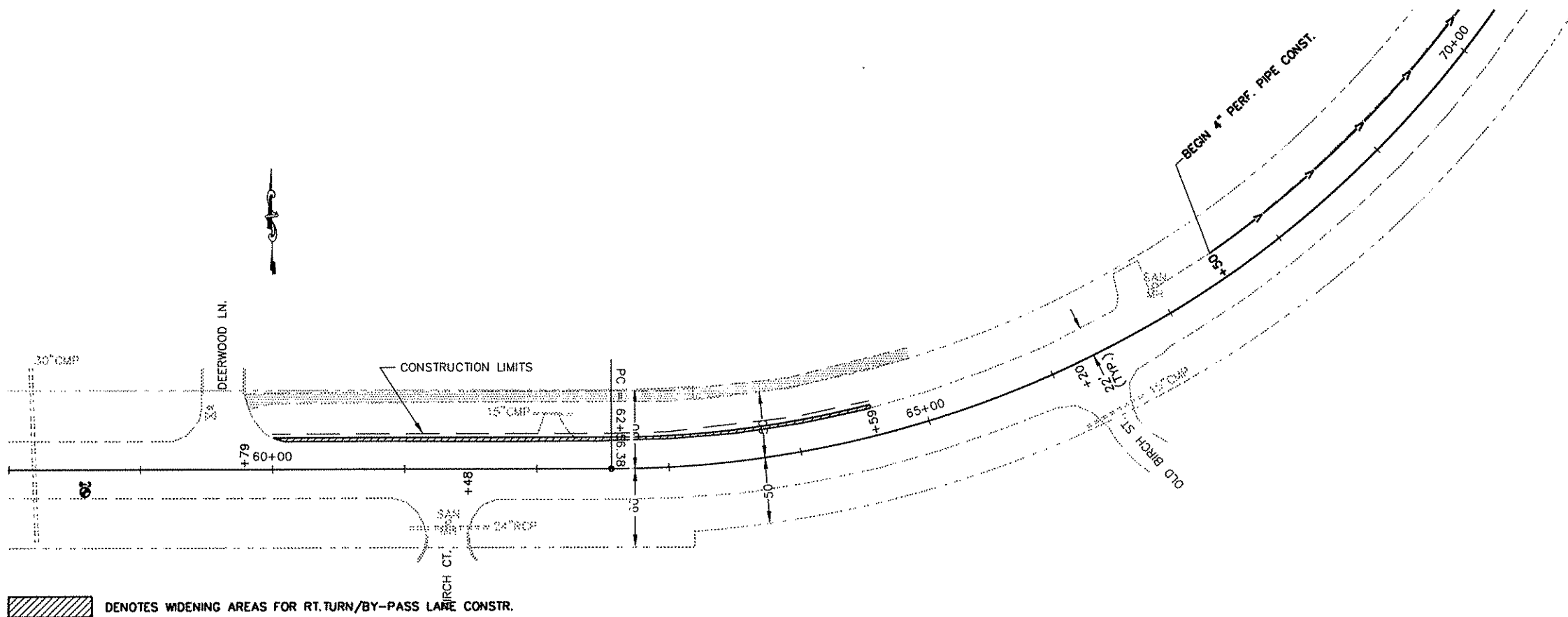
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 DESIGN BY: DME DATE 00/00/98
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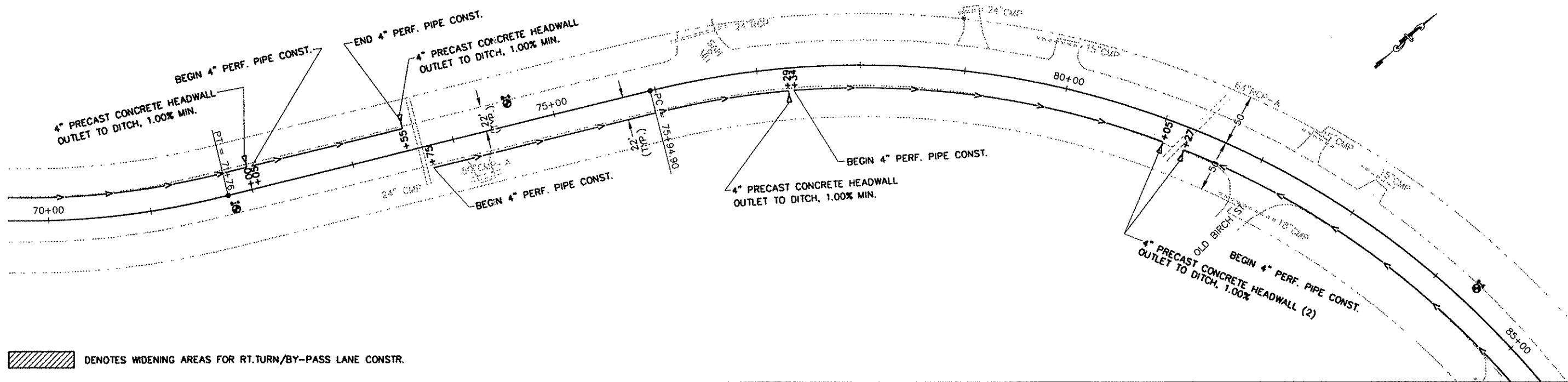
**ANOKA COUNTY
 HIGHWAY DEPT.**

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 SUBPROJECT NO. 00-06-10
 COUNTY PROJECT NO. 00-01-00

PLAN VIEW
 STA 13+50 TO 28+50
 STA 43+00 TO 58+00
 Sheet 6 of 28 Sheets



 DENOTES WIDENING AREAS FOR RT. TURN/BY-PASS LANE CONSTR.



 DENOTES WIDENING AREAS FOR RT. TURN/BY-PASS LANE CONSTR.

NO	DATE	BY	CHKD	APPR	REVISION

NAME: plan2.dwg 6-6-00 12:54:54 pm EST

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

[Signature]
 DATE 6/16/00 REG. NO. 26876

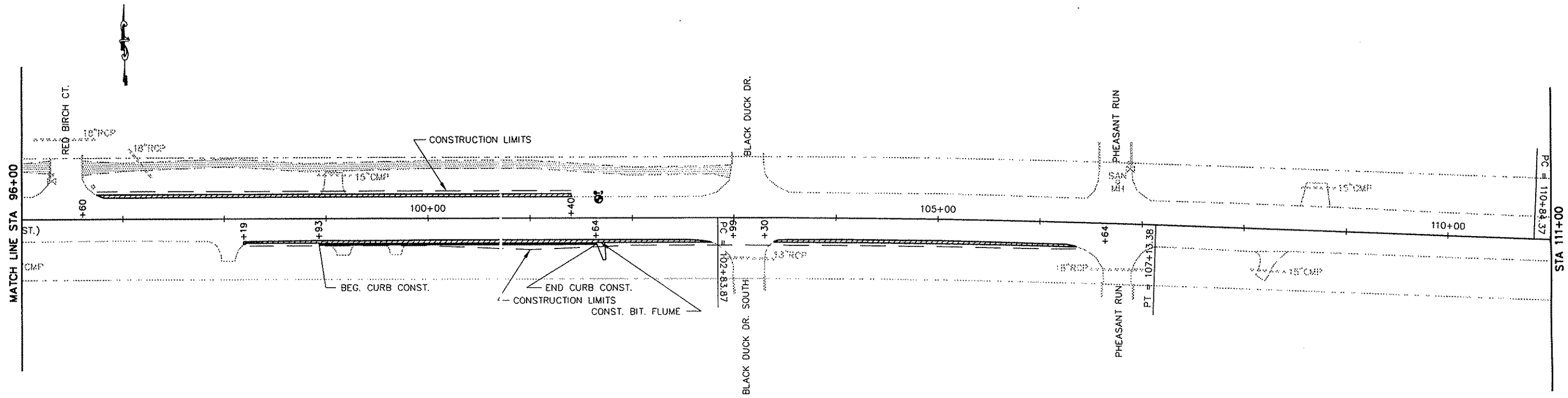
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 CHECKED BY: DME DATE 00/00/98



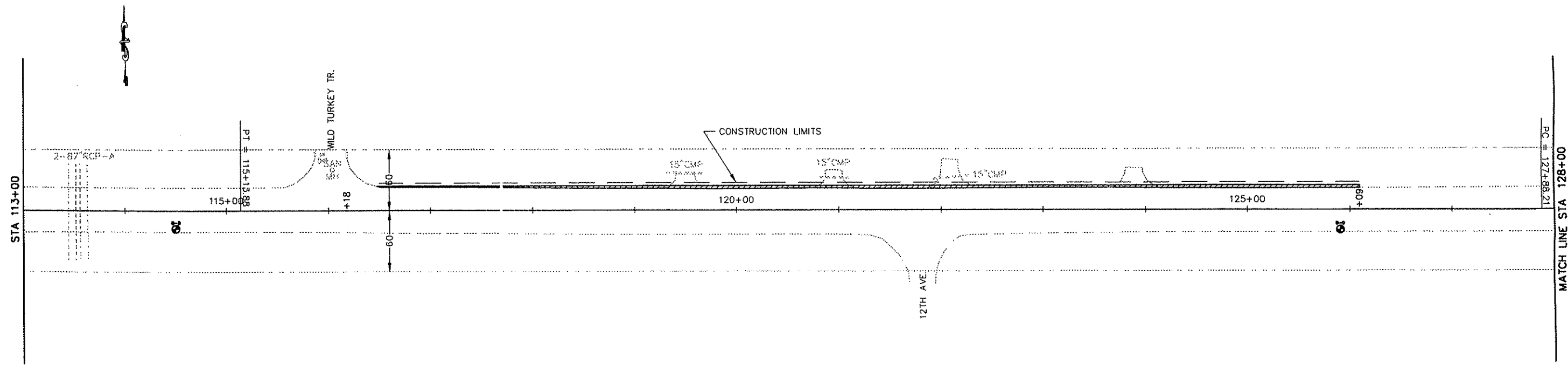
**ANOKA COUNTY
HIGHWAY DEPT.**

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 SUBPROJECT NO. 00-06-10
 COUNTY PROJECT NO. 00-01-00

PLAN VIEW
 STA 58+00 TO 70+00
 STA 70+00 TO 85+00
 Sheet 7 of 28 Sheets



 DENOTES WIDENING AREAS FOR RT. TURN/BY-PASS LANE CONSTR.



 DENOTES WIDENING AREAS FOR RT. TURN/BY-PASS LANE CONSTR.

NO	DATE	BY	CHKD	APPR	REVISION

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Kynda Olson
 DATE 10/16/00 REG. NO. 26826

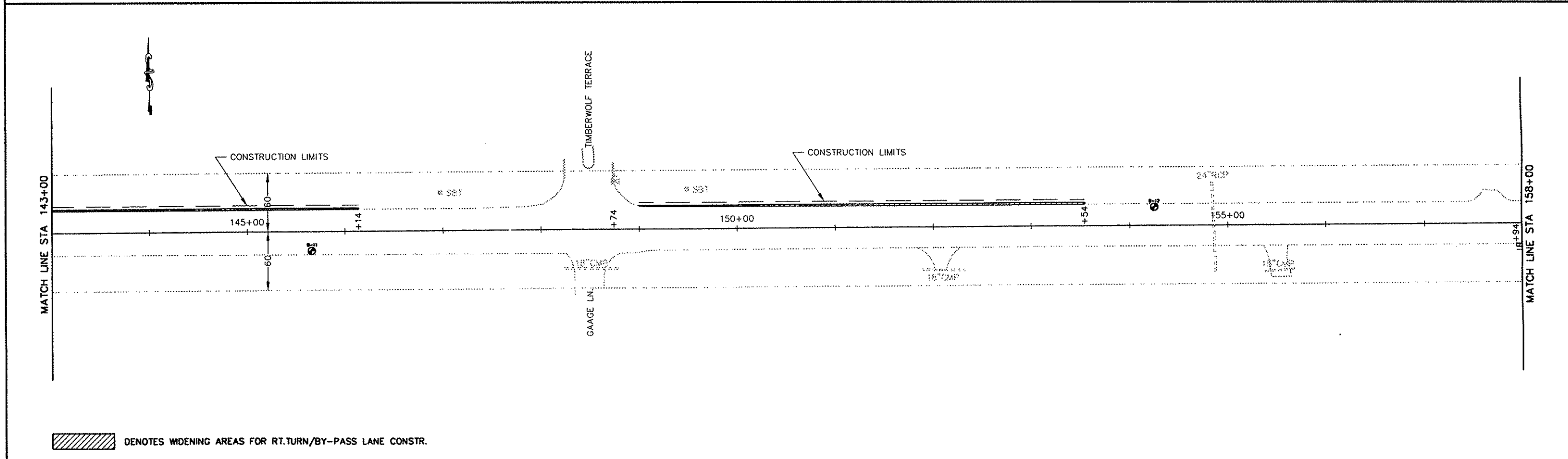
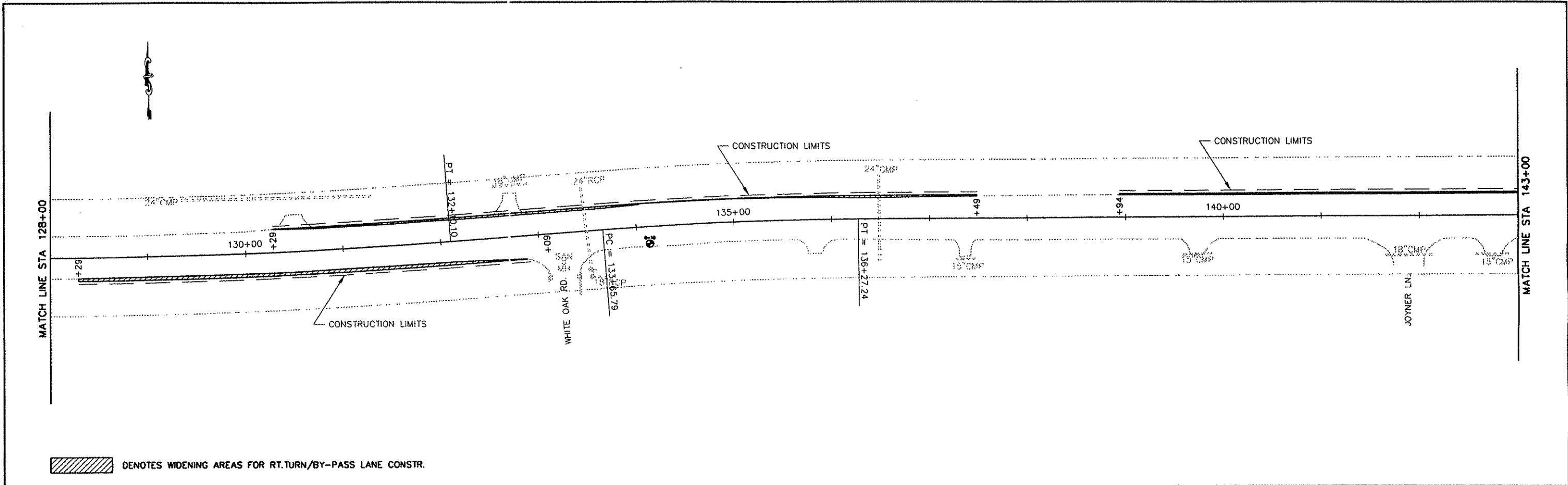
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 DESIGN BY: DME DATE 00/00/98
 CHECKED BY: DME DATE 00/00/98



**ANOKA COUNTY
 HIGHWAY DEPT.**

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 SUBPROJECT NO. 00-06-10
 COUNTY PROJECT NO. 00-01-00

PLAN VIEW
 STA 96+00 TO 111+00
 STA 113+00 TO 128+00
 Sheet 9 of 28 Sheets

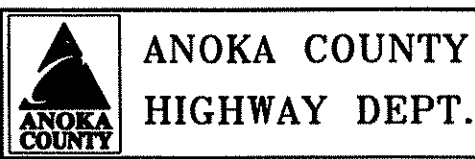


NO	DATE	BY	CHKD	APPR	REVISION

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINN. 307A.

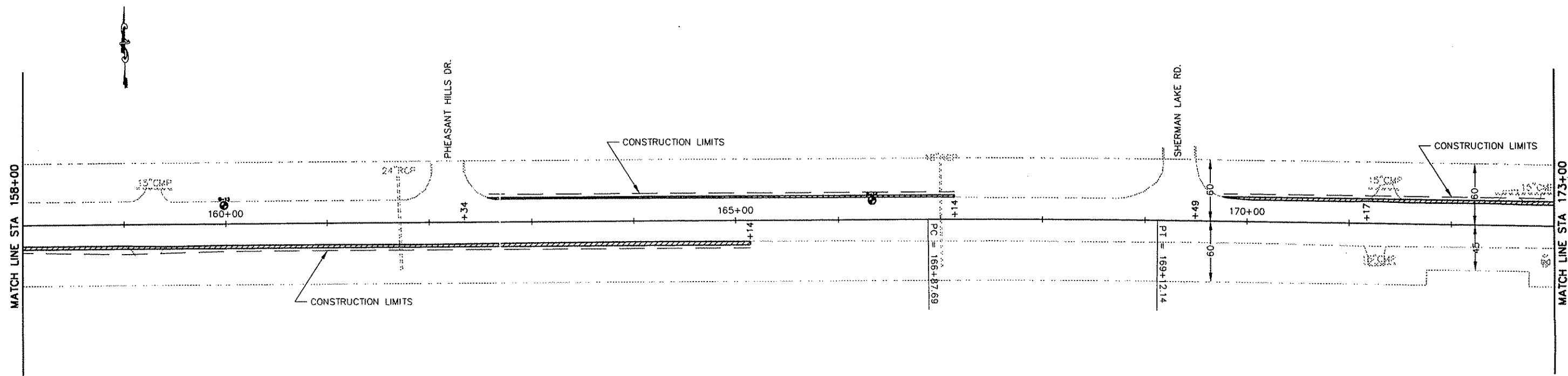
Justin Ok
 DATE *10/10/00* REG. NO. *24826*

DRAWN BY *MM* DATE *00/00/98*
 DESIGN BY *DME* DATE *00/00/98*
 CHECKED BY *DME* DATE *00/00/98*

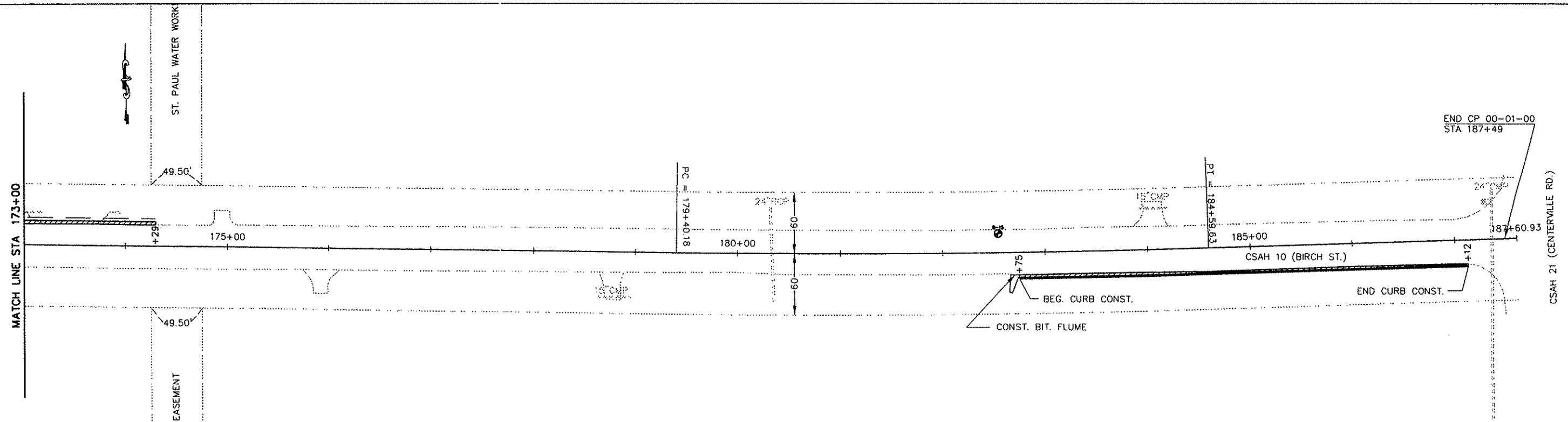


STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 SUBPROJECT NO. 00-06-10
 COUNTY PROJECT NO. 00-01-00

PLAN VIEW
 STA 128+00 TO 158+00
 Sheet 10 of 28 Sheets



 DENOTES WIDENING AREAS FOR RT. TURN/BY-PASS LANE CONSTR.



 DENOTES WIDENING AREAS FOR RT. TURN/BY-PASS LANE CONSTR.

NO	DATE	BY	CHKD	APPR	REVISION

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Krista Oley
 DATE 6/16/00 REG. NO. 26826

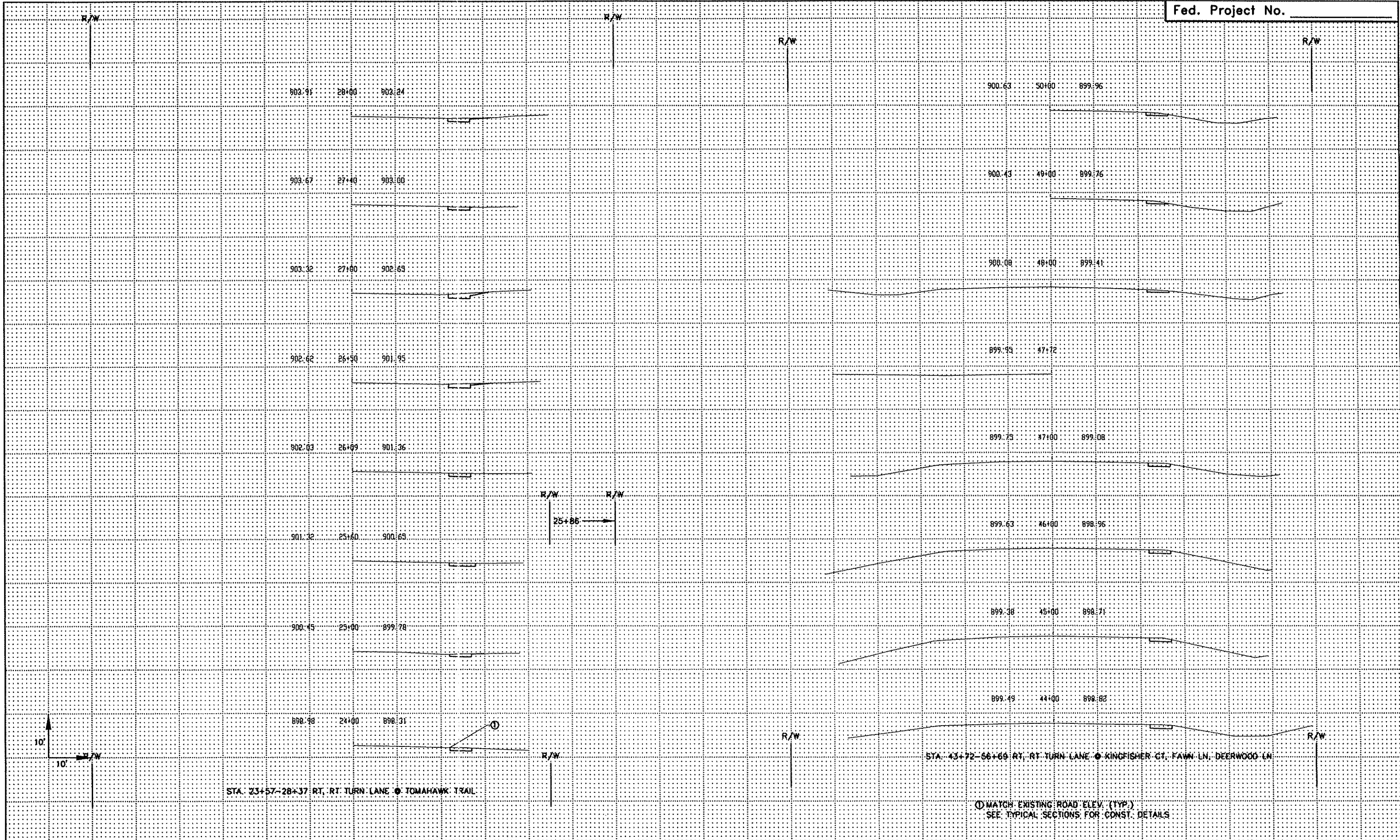
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 DESIGN BY DMF DATE 00/00/00
 CHECKED BY DMF DATE 00/00/00



**ANOKA COUNTY
 HIGHWAY DEPT.**

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 SUBPROJECT NO. 00-06-10
 COUNTY PROJECT NO. 00-01-00

PLAN VIEW
 STA 158+00 TO 187+60
 Sheet 11 of 28 Sheets



NO	DATE	BY	CHKD	APPR	REVISION

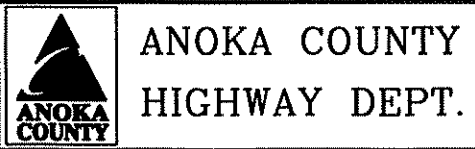
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I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Albert B.

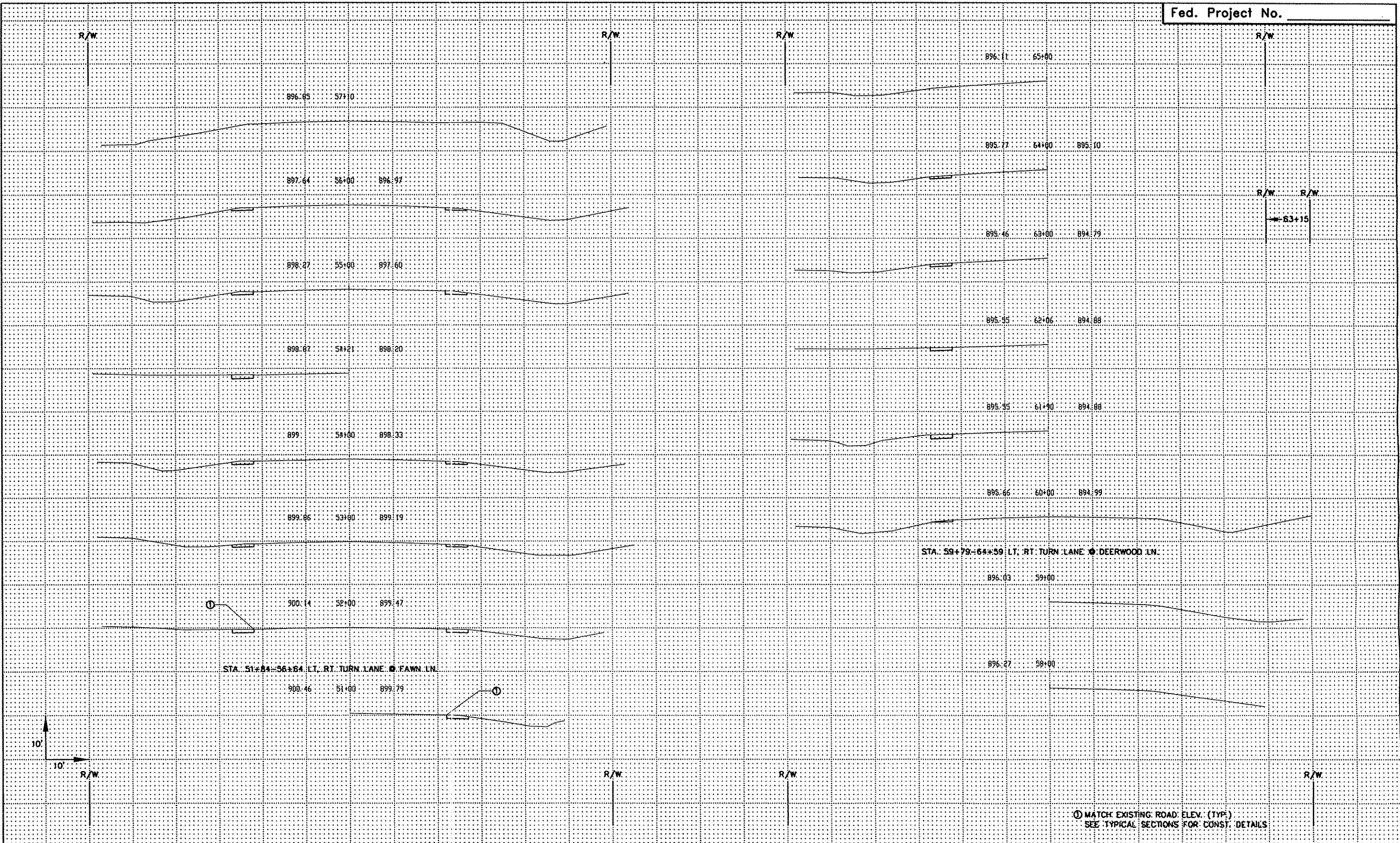
DATE 05/23/00 REG. NO. 25066

DRAWN BY: GAA DATE 03/07/00
 DESIGN BY: GAA DATE 03/07/00
 CHECKED BY: LAR DATE 05/23/00



STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 SUBPROJECT NO. 00-06-10
 COUNTY PROJECT NO. 00-01-00

CROSS-SECTIONS
 STA 24+00 TO 28+00
 STA 44+00 TO 50+00
 Sheet 12 of 28 Sheets



①

STA. 51+84-56+64 LT. RT. TURN LANE @ FAWN LN.

STA. 59+79-64+59 LT. RT. TURN LANE @ DEERWOOD LN.

① MATCH EXISTING ROAD ELEV. (TYP.)
SEE TYPICAL SECTIONS FOR CONST. DETAILS

NO.	DATE	BY	CHKD	APPR	REVISION

NAME: Xsec2.dwg 6-6-00 11:30 pm EST

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINN. SOTA.

Albert

DATE 05/23/00 REG. NO. 25066

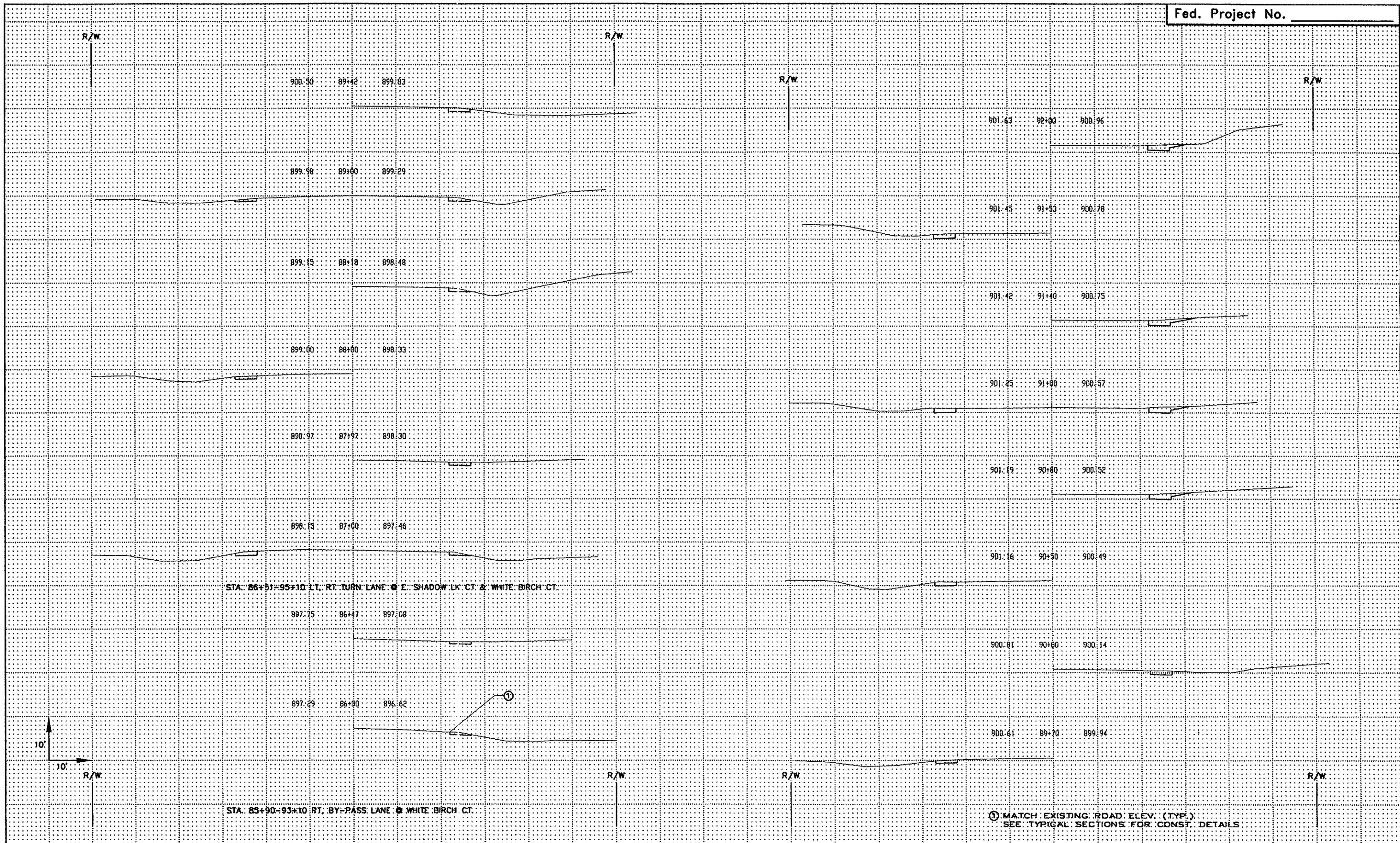
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 DESIGN BY GAA DATE 03/07/00
 CHECKED BY LAR DATE 05/23/00



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 SUBPROJECT NO. 00-06-10
 COUNTY PROJECT NO. 00-01-00

CROSS-SECTIONS
 STA 51+00 TO 65+00
 Sheet 13 of 28 Sheets



NO	DATE	BY	CHKD	APPR	REVISION

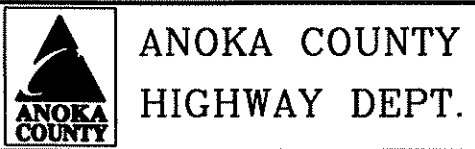
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I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Albert B.

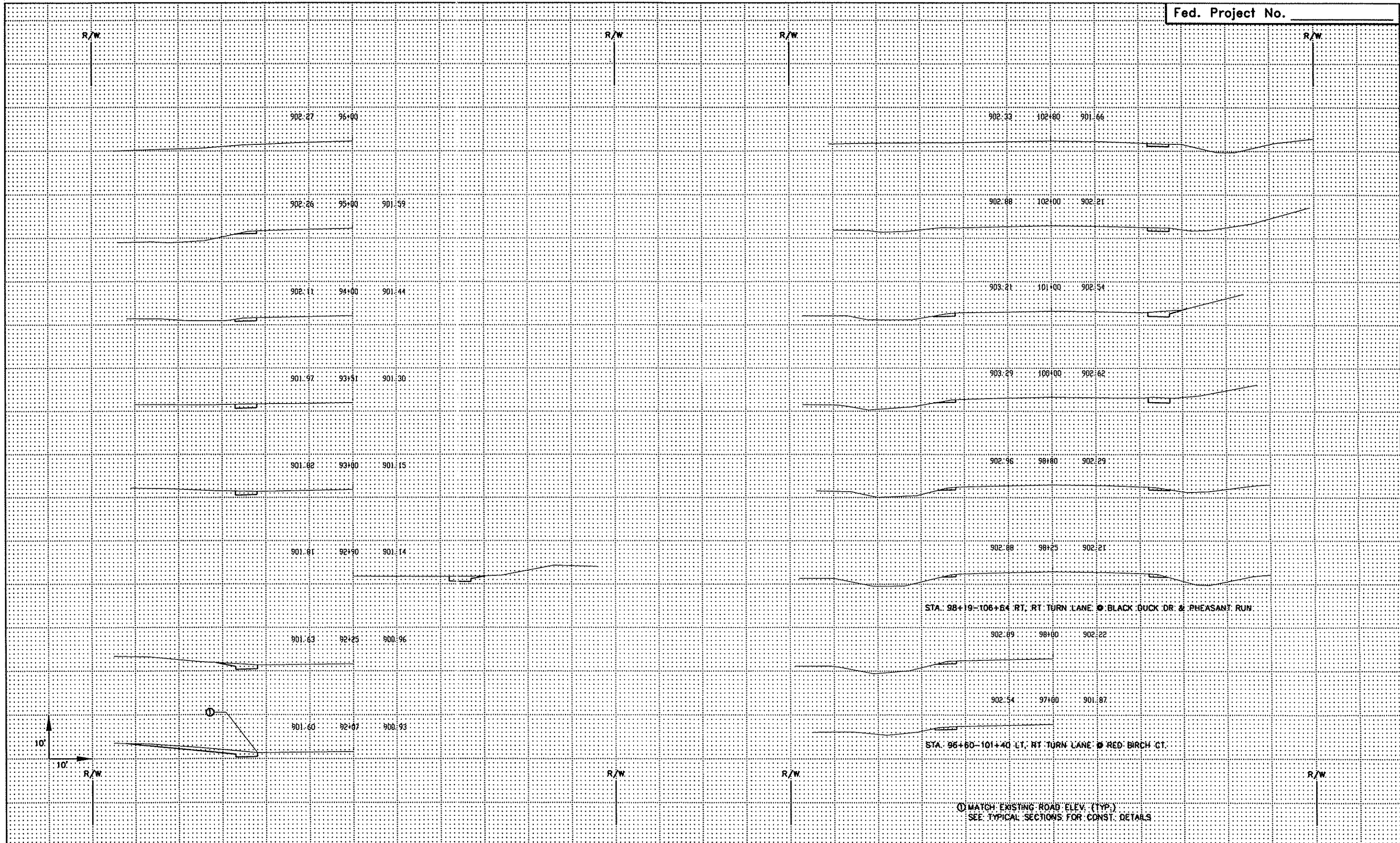
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DRAWN BY GAA DATE 03/07/00
 DESIGN BY GAA DATE 03/07/00
 CHECKED BY LAR DATE 05/23/00



STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 SUBPROJECT NO. 00-06-10
 COUNTY PROJECT NO. 00-01-00

CROSS-SECTIONS
 STA 86+00 TO 92+00
 Sheet 14 of 28 Sheets



STA. 98+19-106+54 RT. RT TURN LANE @ BLACK DUCK DR & PHEASANT RUN

STA. 96+60-101+40 LT. RT TURN LANE @ RED BIRCH CT.

○ MATCH EXISTING ROAD ELEV. (TYP.)
SEE TYPICAL SECTIONS FOR CONST. DETAILS

NO	DATE	BY	CHKD	APPR	REVISION

NAME: Xsec4.dwg 6-6-00 14719 pn EST

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Allyson

DATE 05/24/00 REG. NO. 25066

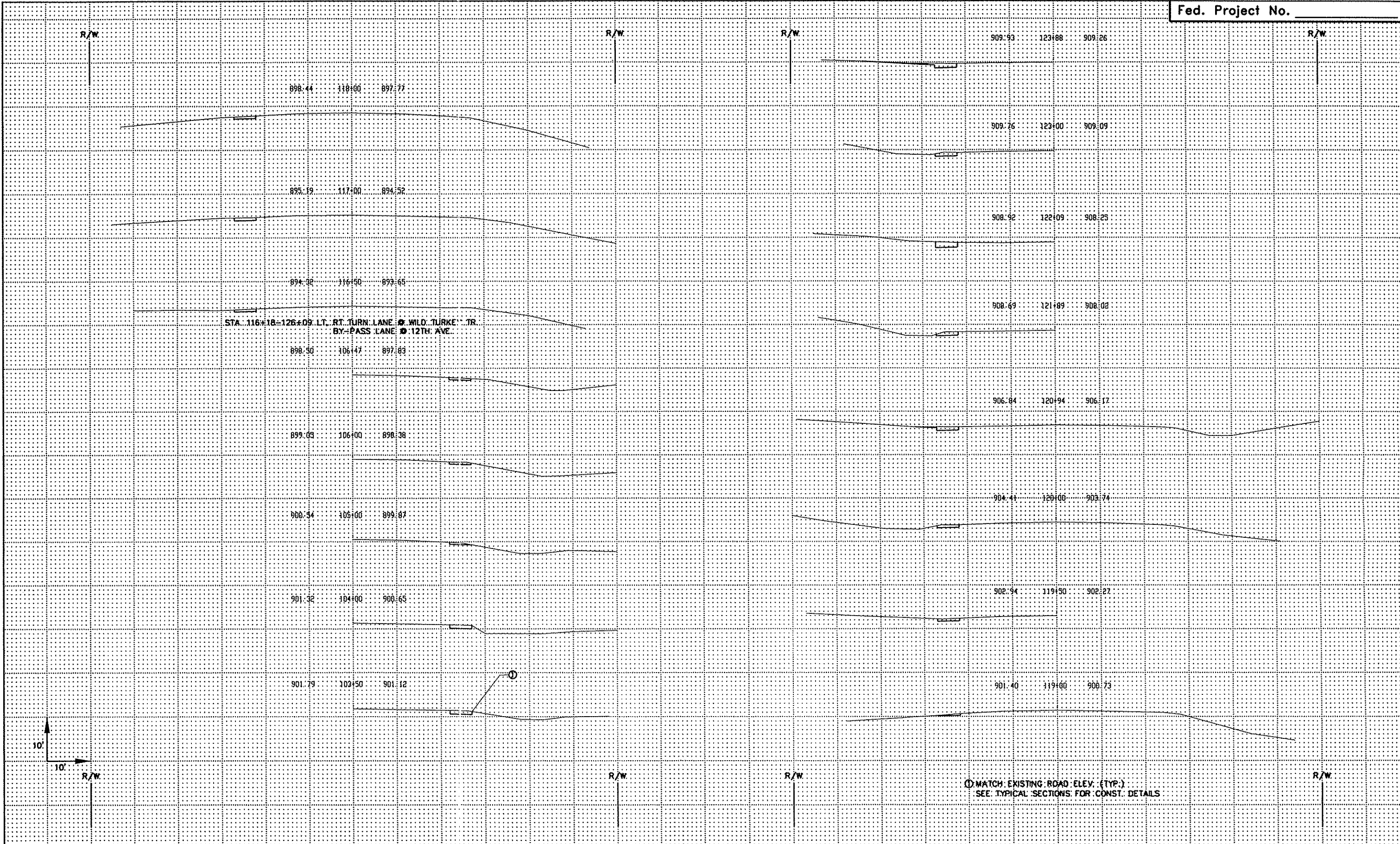
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 CHECKED BY LAR DATE 05/24/00



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 SUBPROJECT NO. 00-06-10
 COUNTY PROJECT NO. 00-01-00

CROSS-SECTIONS
 STA 92+07 TO 102+80
 Sheet 15 of 28 Sheets



NO	DATE	BY	CKD	APPR	REVISION

NAME: Xsec5.dwg 6-6-00 12030 pm EST

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINN.: OTA.

Robert S.

DATE 05/24/00 REG. NO. 25066

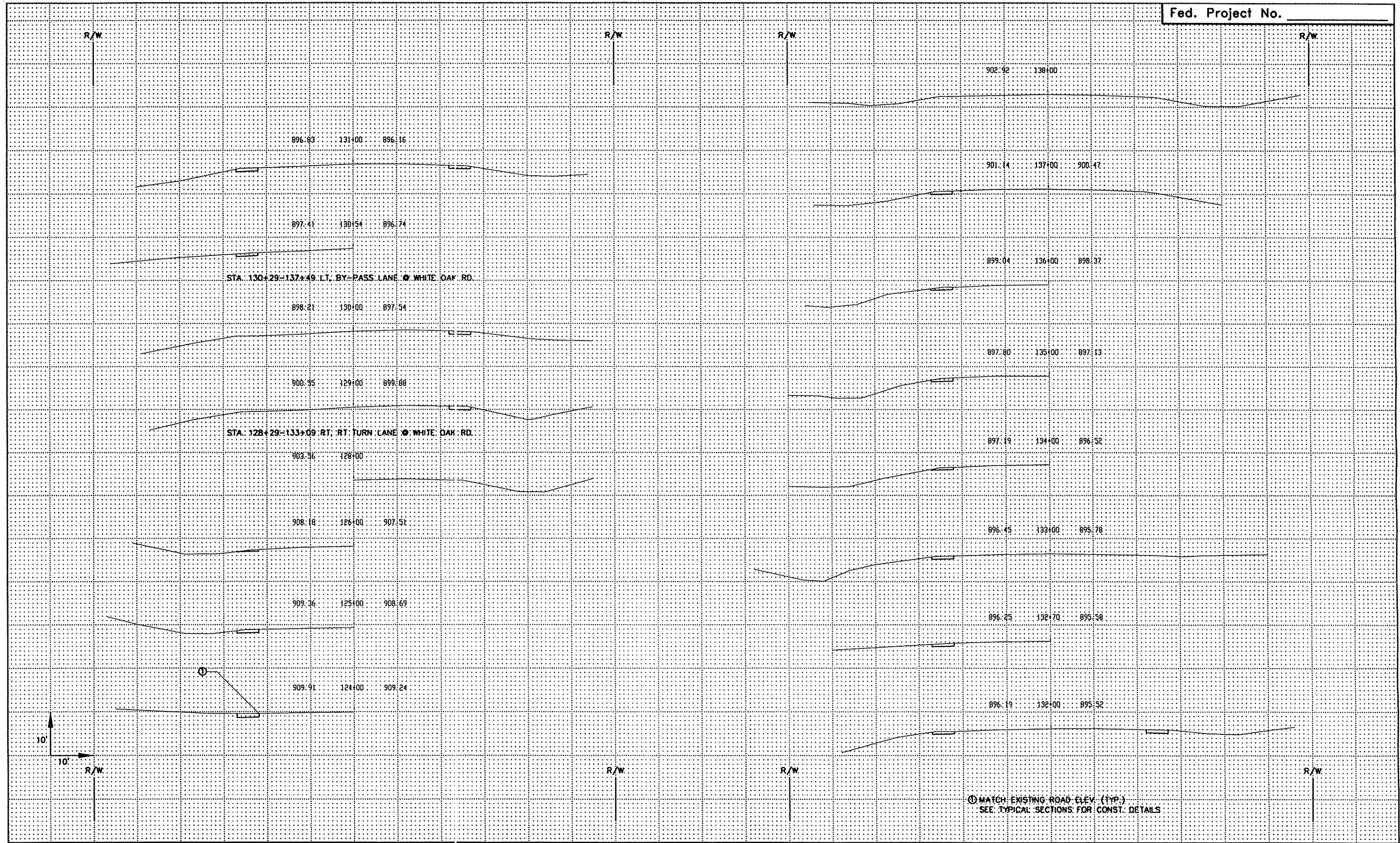
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 CHECKED BY LAR DATE 05/24/00



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 SUBPROJECT NO. 00-06-10
 COUNTY PROJECT NO. 00-01-00

CROSS-SECTIONS
 STA 116+18 TO 126+09
 Sheet 16 of 28 Sheets



STA. 130+29=137+49 LT. BY-PASS LANE OF WHITE OAK RD.

STA. 128+29=133+09 RT. TURN LANE OF WHITE OAK RD.

⊙ MATCH EXISTING ROAD ELEV. (TYP.)
SEE TYPICAL SECTIONS FOR CONST. DETAILS

NO	DATE	BY	CHKD	APPR	REVISION

NAME: Xsec6.dwg 6-6-00 12631 pr EST

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINN. SOTA.

Robert S.

DATE 05/24/00 REG. NO. 25066

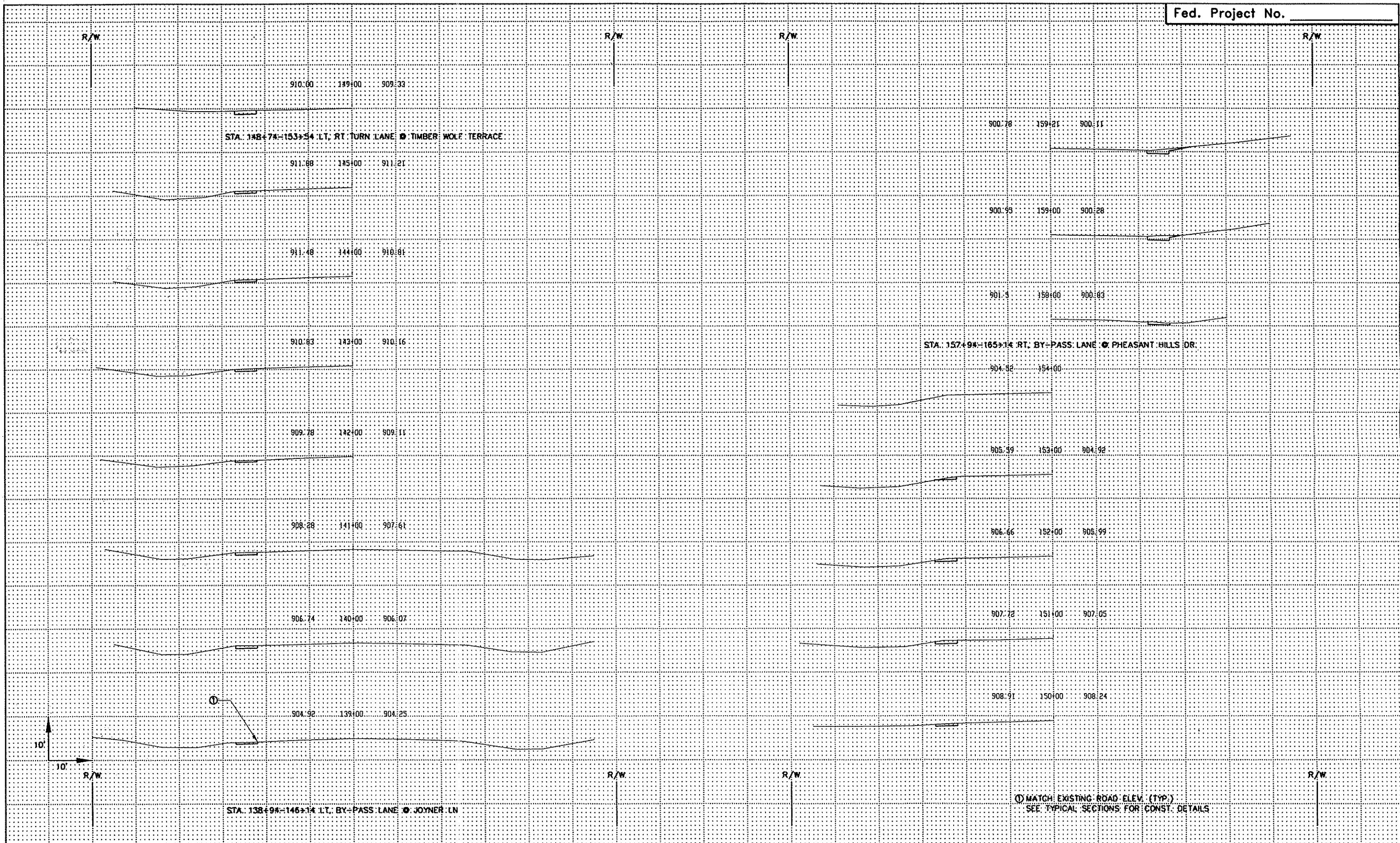
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 CHECKED BY LAR DATE 05/24/00



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 SUBPROJECT NO. 00-06-10
 COUNTY PROJECT NO. 00-01-00

CROSS-SECTIONS
 STA 124+00 TO 138+00
 Sheet 17 of 28 Sheets



NO	DATE	BY	CKD	APPR	REVISION

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Allyson B.

DATE 05/24/00 REG. NO. 25066

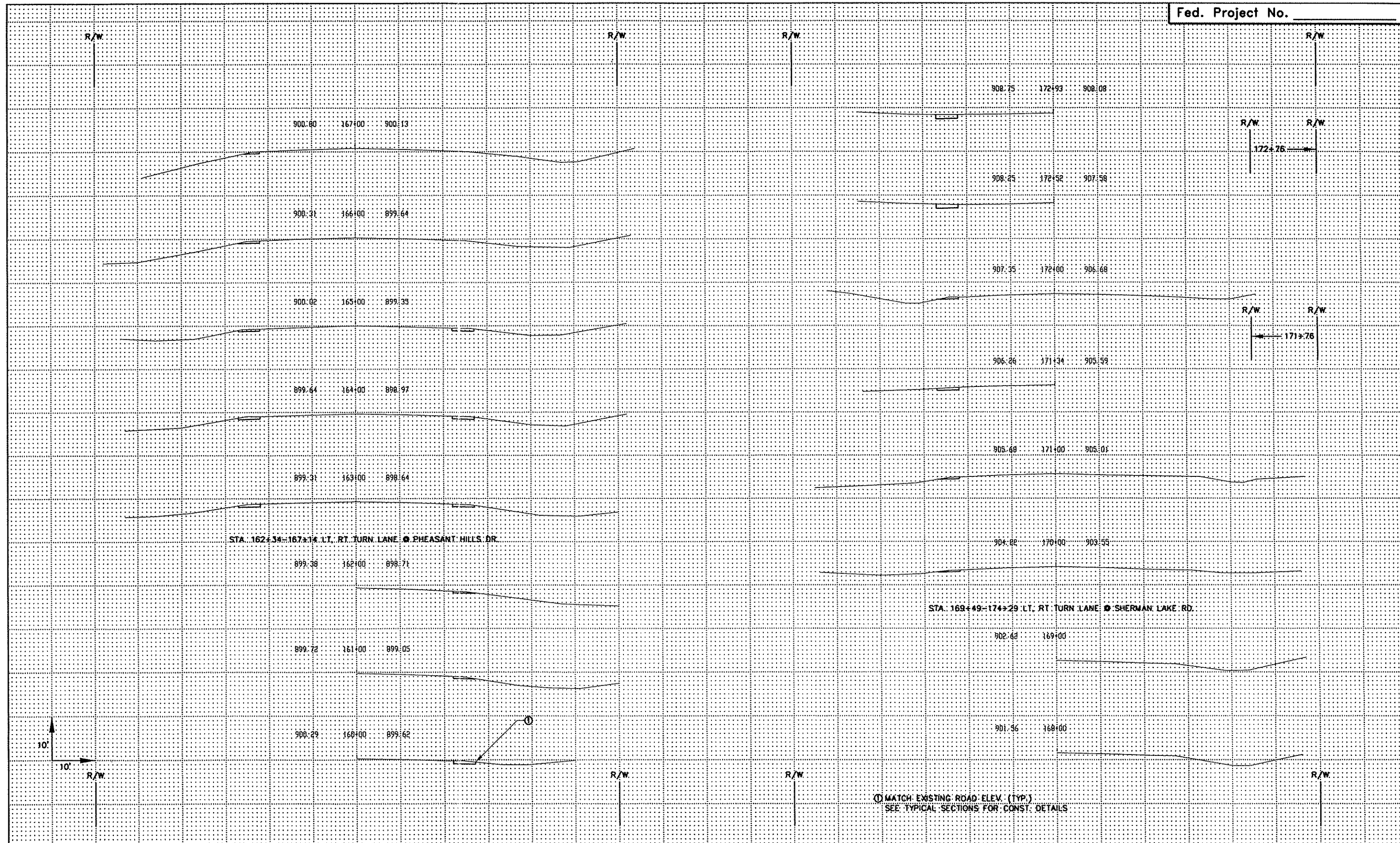
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 DESIGN BY GAA DATE 03/07/00
 CHECKED BY LAR DATE 05/24/00



ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 SUBPROJECT NO. 00-06-10
 COUNTY PROJECT NO. 00-01-00

CROSS-SECTIONS
 STA 139+00 TO 159+21
 Sheet 18 of 28 Sheets



NO	DATE	BY	CKD	APPR	REVISION

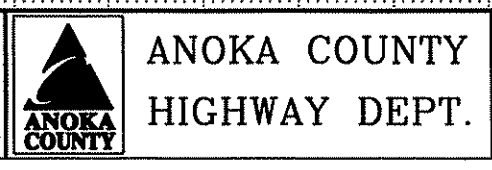
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I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINN. SOTA.

[Signature]

DATE 05/24/00 REG. NO. 25066

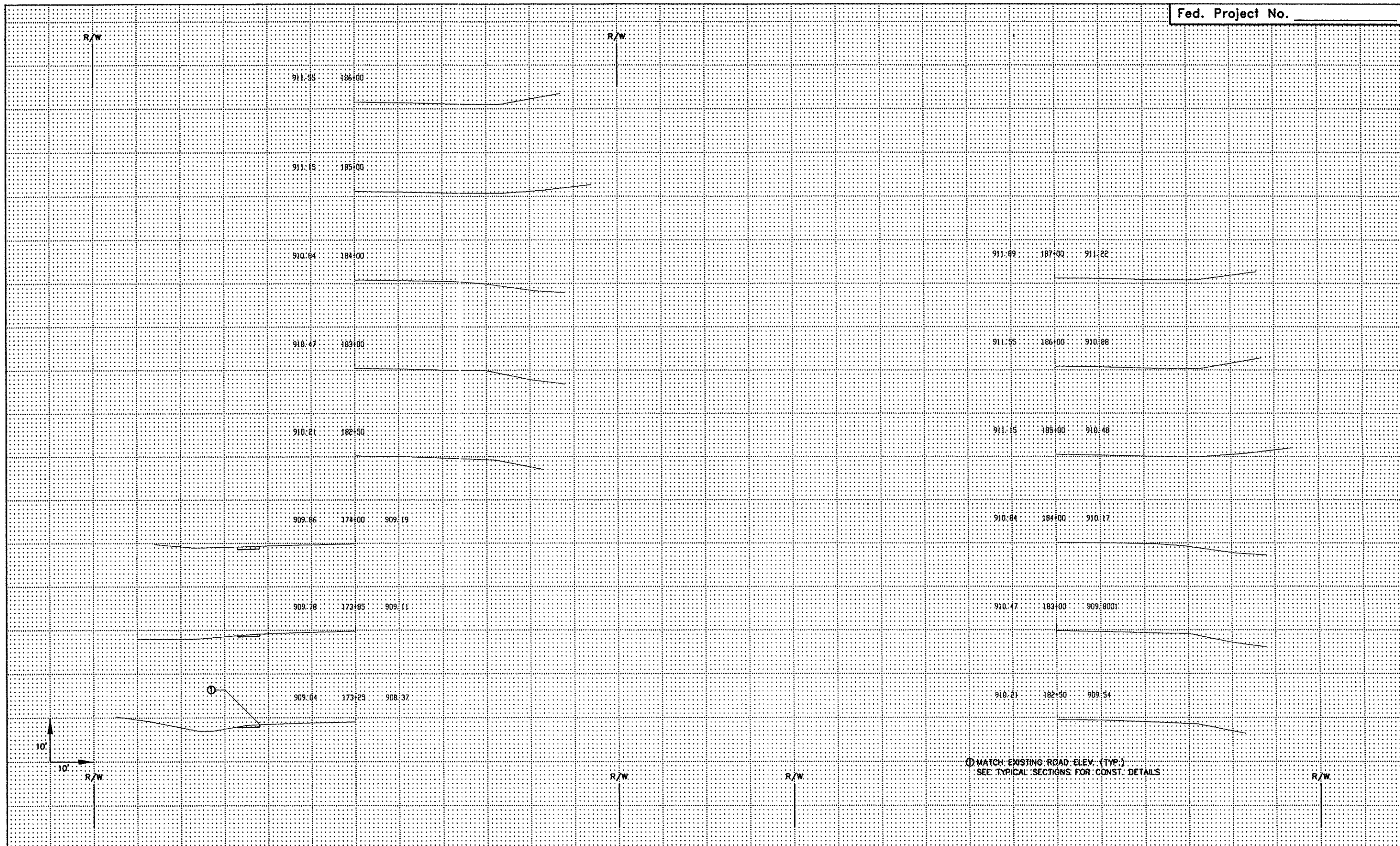
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 CHECKED BY LAR DATE 05/24/00



ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 SUBPROJECT NO. 00-06-10
 COUNTY PROJECT NO. 00-01-00

CROSS-SECTIONS
 STA 160+00 TO 172+93
 Sheet 19 of 28 Sheets



NO	DATE	BY	CHKD	APPR	REVISION

NAME: Xsec9.dwg 6-6-00 1:35:11 pm EST

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

[Signature]

DATE 05/24/00 REG. NO. 25066

DRAWN BY: GAA DATE 03/07/00
 DESIGN BY: GAA DATE 03/07/00
 CHECKED BY: LAR DATE 05/24/00



ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 SUBPROJECT NO. 00-06-10
 COUNTY PROJECT NO. 00-01-00

CROSS-SECTIONS
 STA 173+25 TO 187+00
 Sheet 20 of 28 Sheets

MATCHLINE 'A' SEE ABOVE RIGHT

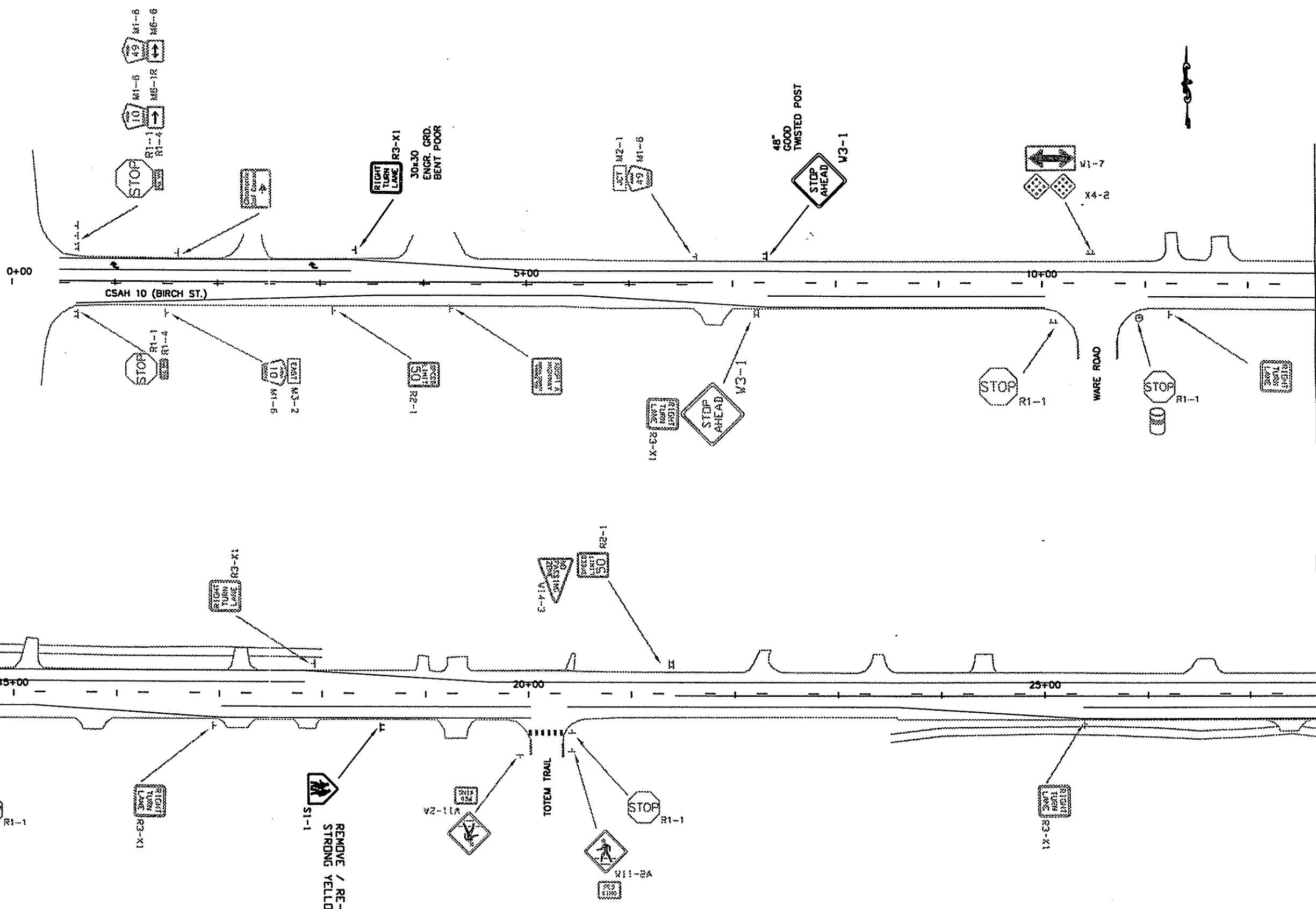
MATCHLINE 'B' SEE PAGE 22 OF 28

MATCHLINE 'A' SEE BELOW LEFT

CSAH 49 (HODGSON ROAD)

CSAH 10 (BIRCH ST.)

C.S.A.H. 10 BIRCH ST.



NO	DATE	BY	CKD	APPR	REVISION

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DAILY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

[Signature]
 DATE 10/16/00 REG. NO. 26826

DRAWN BY D.M. DATE 8/3/00
 DESIGN BY DATE
 CHECKED BY DATE



ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 00-06-10

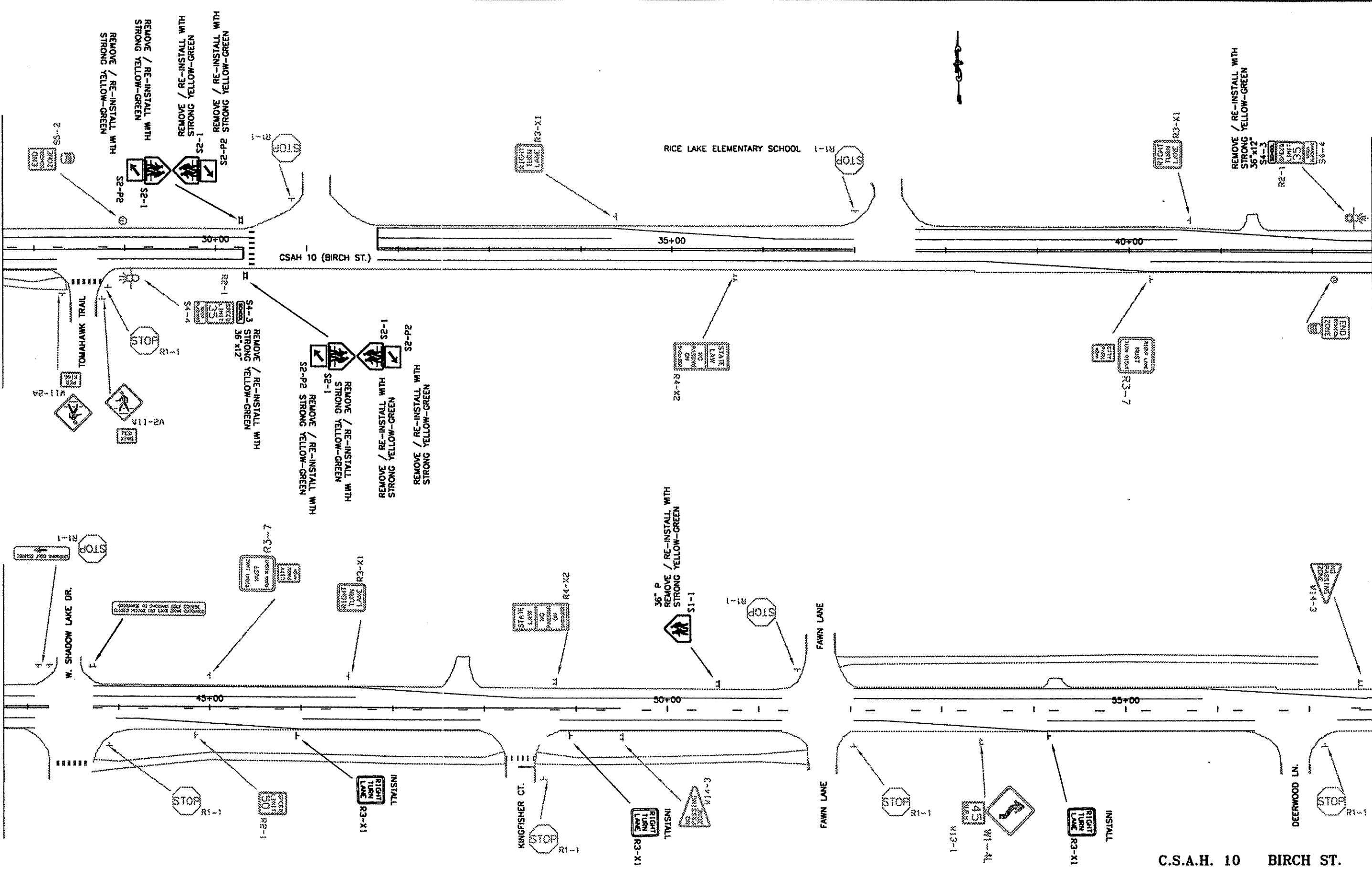
SIGN / STRIPING
 Sheet 21 of 28 Sh.

MATCHLINE 'B' SEE PAGE 21 OF 28

MATCHLINE 'C' SEE ABOVE RIGHT

MATCHLINE 'C' SEE BELOW LEFT

MATCHLINE 'D' SEE PAGE 23 OF 28



C.S.A.H. 10 BIRCH ST.

NO	DATE	BY	CKD	APPR	REVISION

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Kristen Olson
 DATE 10/1/10 REG. NO. 26826

DRAWN BY D.M. DATE 8/2/00
 DESIGN BY _____ DATE _____
 CHECKED BY _____ DATE _____

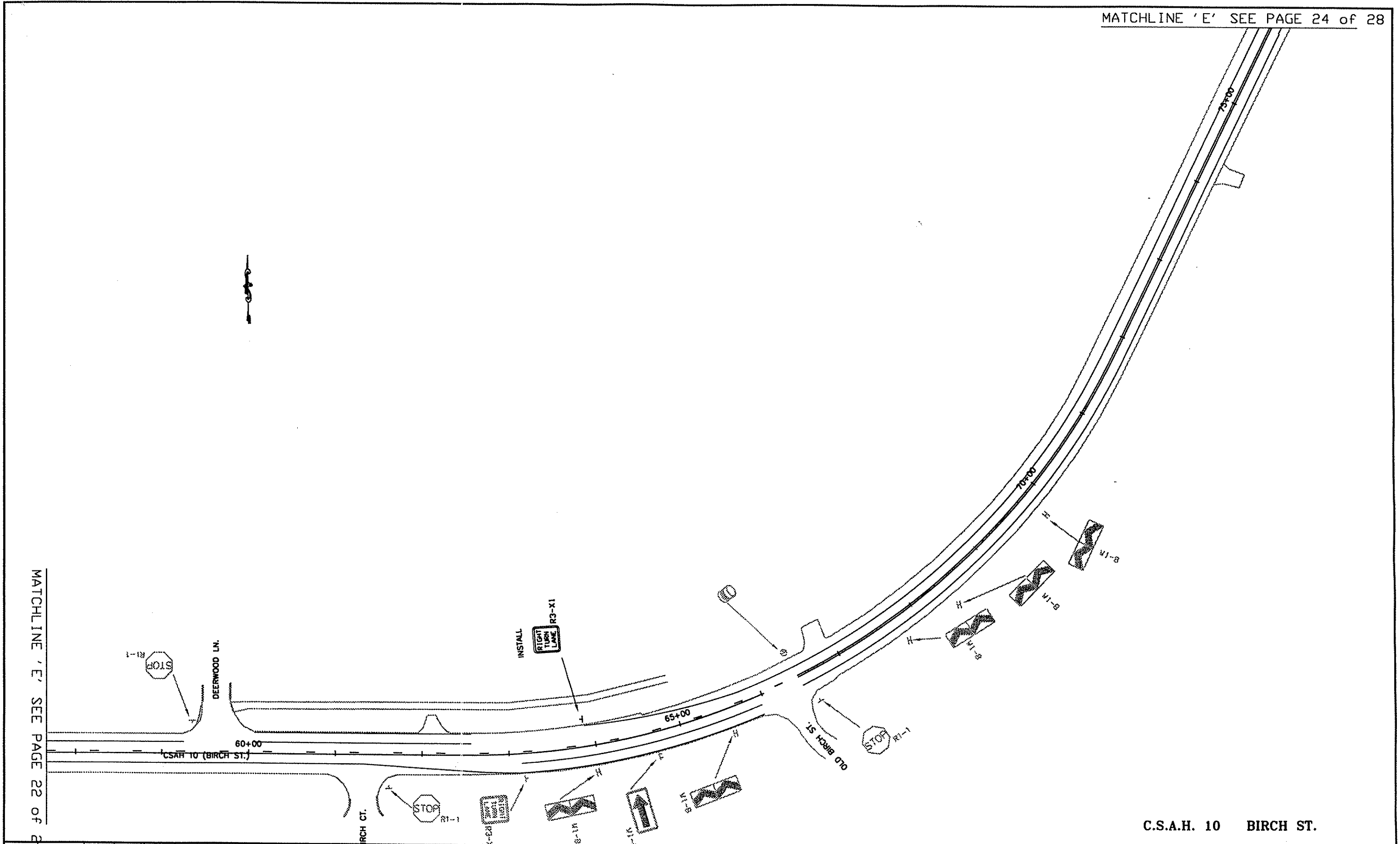


**ANOKA COUNTY
 HIGHWAY DEPT.**

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 00-06-10

SIGN / STRIPING
 Sheet 22 of 28 Sheets

MATCHLINE 'E' SEE PAGE 22 of 28



C.S.A.H. 10 BIRCH ST.

NO	DATE	BY	CKD	APPR	REVISION

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A FULLY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

[Signature]
 DATE 6/26/00 REG. NO. 26826

DRAWN BY D.M. DATE 5/2/00
 DESIGN BY _____ DATE _____
 CHECKED BY _____ DATE _____

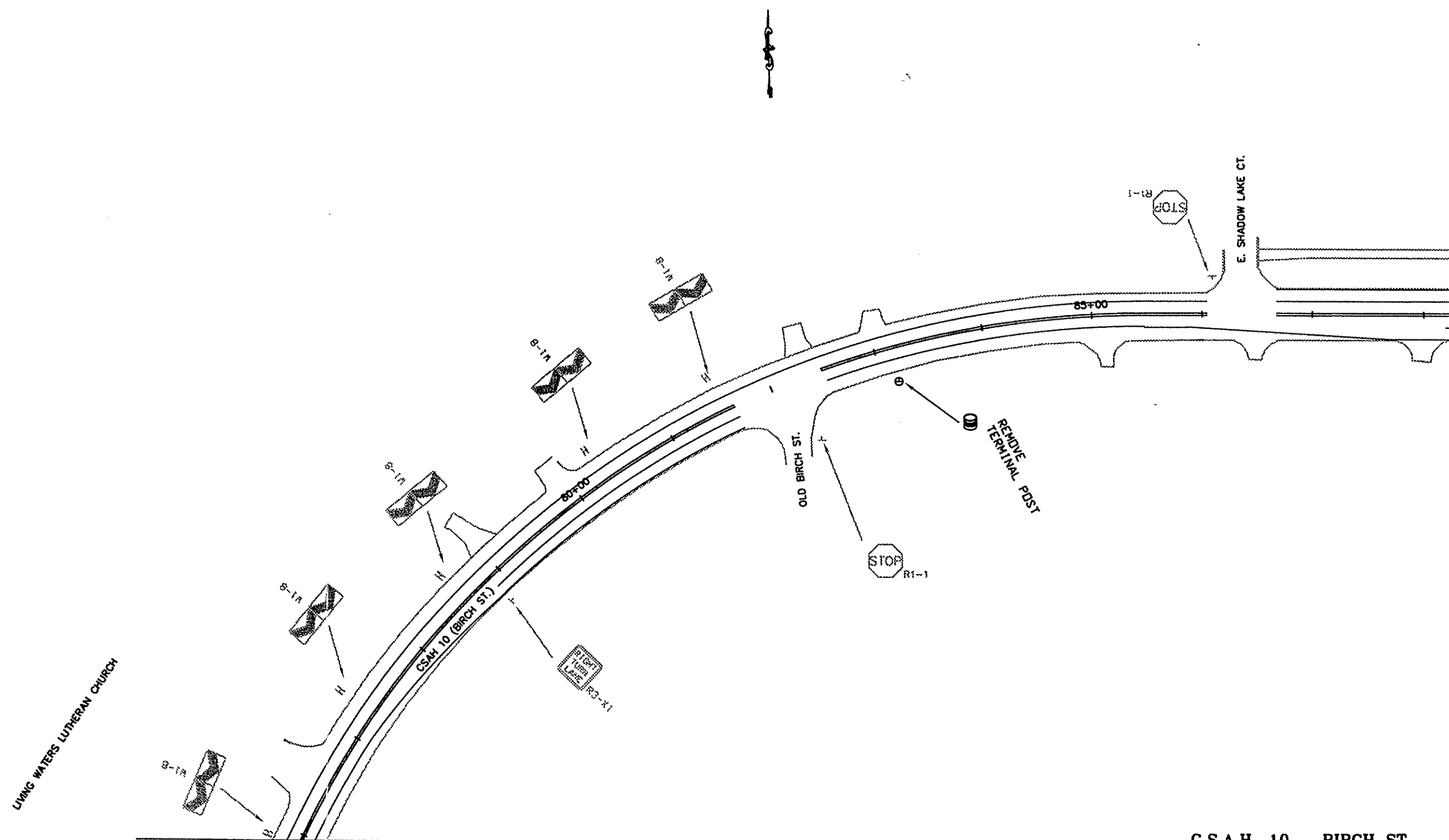


ANOKA COUNTY HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 00-06-10

SIGN / STRIPING
 Sheet 23 of 28 Sheets

MATCHLINE 'F' SEE PAGE 25 OF 28



MATCHLINE 'E' SEE PAGE 23 OF 28

C.S.A.H. 10 BIRCH ST.

NO	DATE	BY	CKD	APPR	REVISION

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A FULLY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

[Signature]
 DATE 10/16/00 REG. NO. 26826

DRAWN BY D.M. DATE 9/2/00
 DESIGN BY _____ DATE _____
 CHECKED BY _____ DATE _____



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 00-06-10

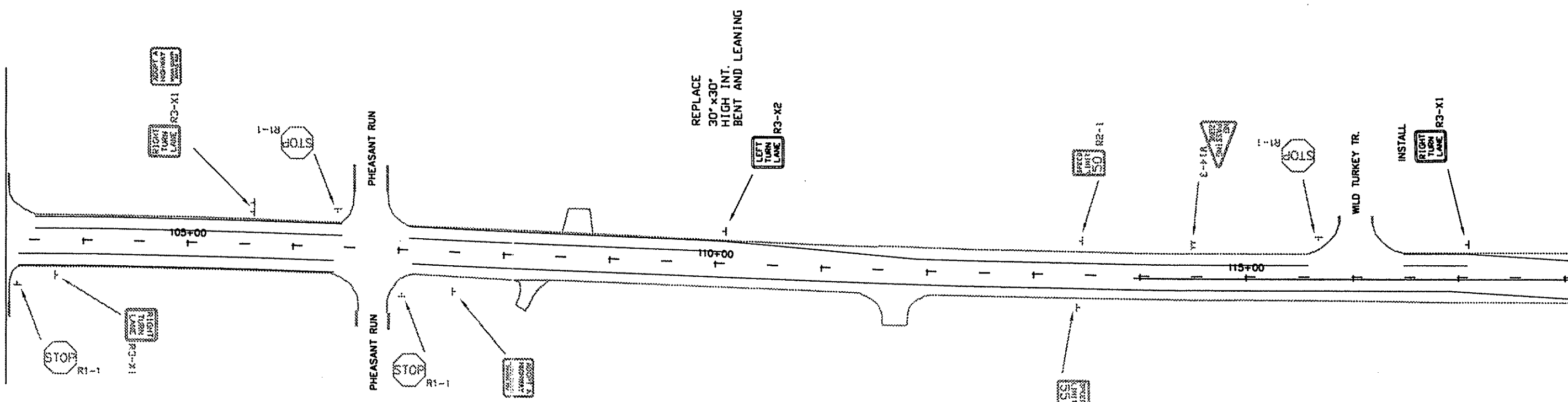
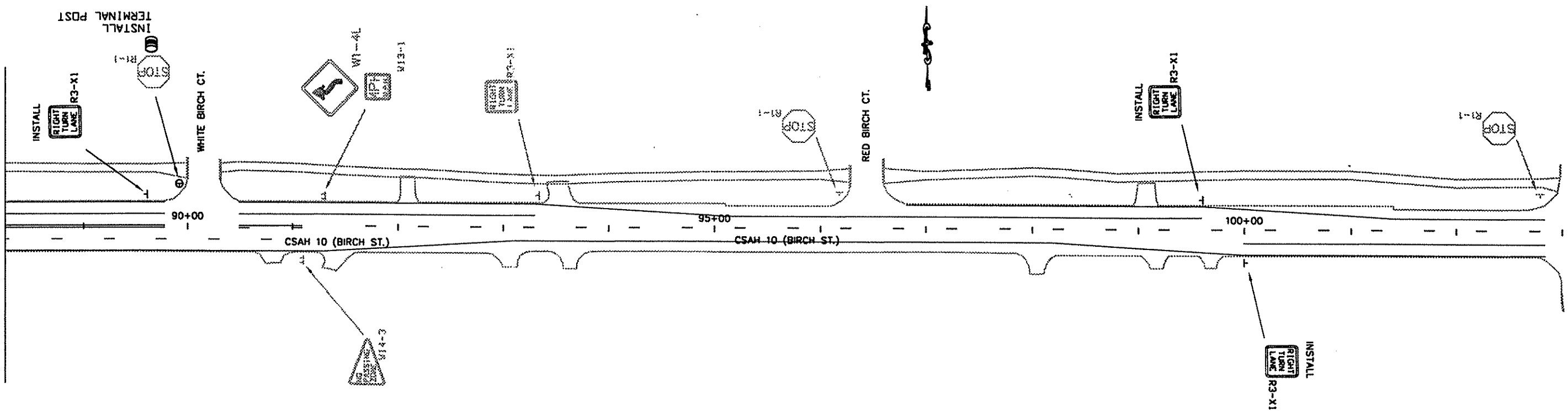
SIGN / STRIPING
 Sheet 24 of 28 Sheets

MATCHLINE 'F' SEE PAGE 24 OF 28

MATCHLINE 'G' SEE ABOVE RIGHT

MATCHLINE 'G' SEE BELOW LEFT

MATCHLINE 'H' SEE PAGE 26 OF 28



C.S.A.H. 10 BIRCH ST.

NO	DATE	BY	CKD	APPR	REVISION

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Dustin Olson
 DATE 10/6/00 REG. NO. 21826

DRAWN BY D.M. DATE 5/2/99
 DESIGN BY _____ DATE _____
 CHECKED BY _____ DATE _____



ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 00-06-10

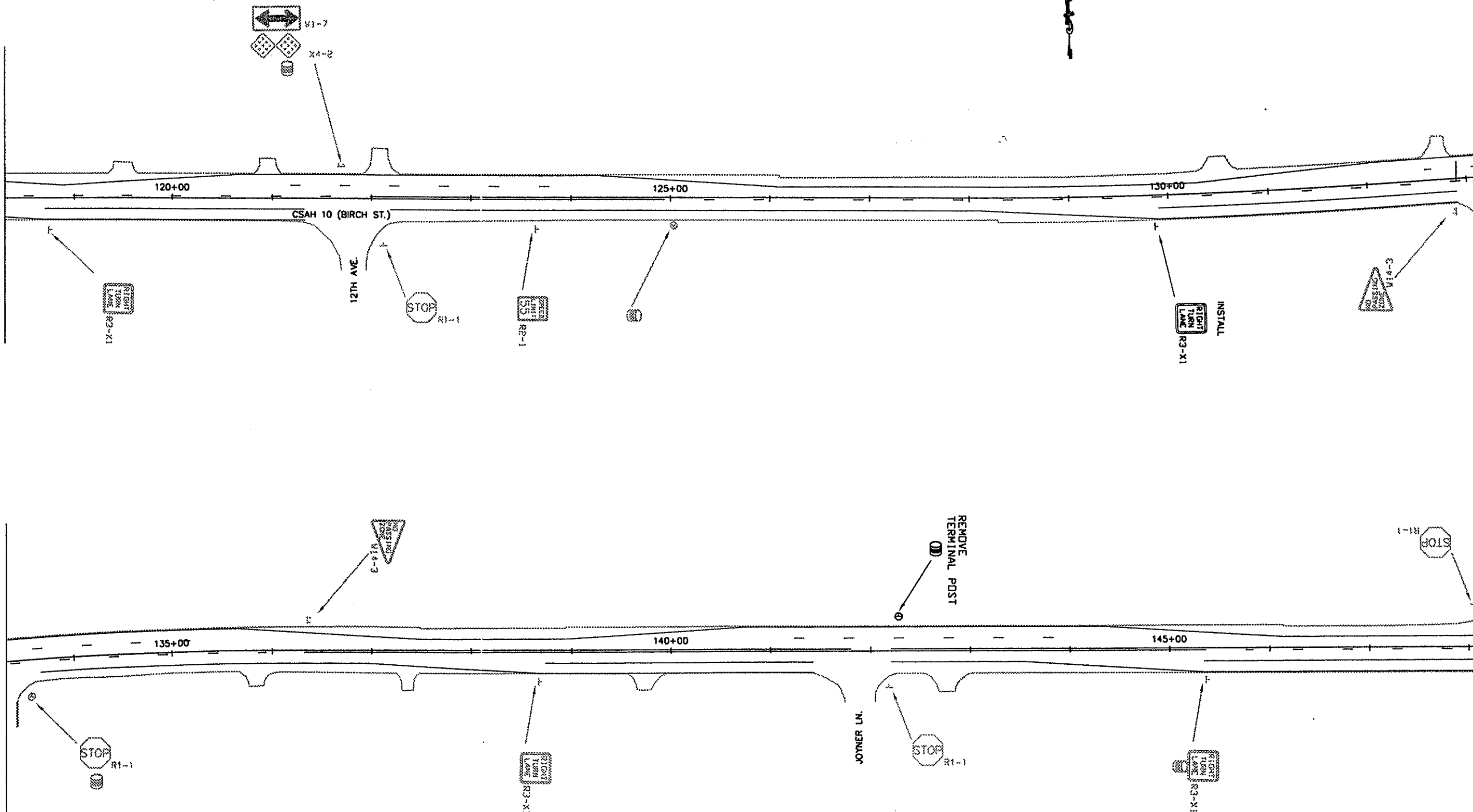
SIGN / STRIPING
 Sheet 25 of 28 Sheets

MATCHLINE 'H' SEE PAGE 25 OF 28

MATCHLINE 'J' SEE BELOW LEFT

MATCHLINE 'J' SEE ABOVE RIGHT

MATCHLINE 'K' SEE PAGE 27 OF 28



C.S.A.H. 10 BIRCH ST.

NO	DATE	BY	CKD	APPR	REVISION

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

[Signature]
 DATE 9/10/00 REG. NO. 26806

DRAWN BY D.M. DATE 8/3/00
 DESIGN BY _____ DATE _____
 CHECKED BY _____ DATE _____



**ANOKA COUNTY
HIGHWAY DEPT.**

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 00-06-10

SIGN / STRIPING

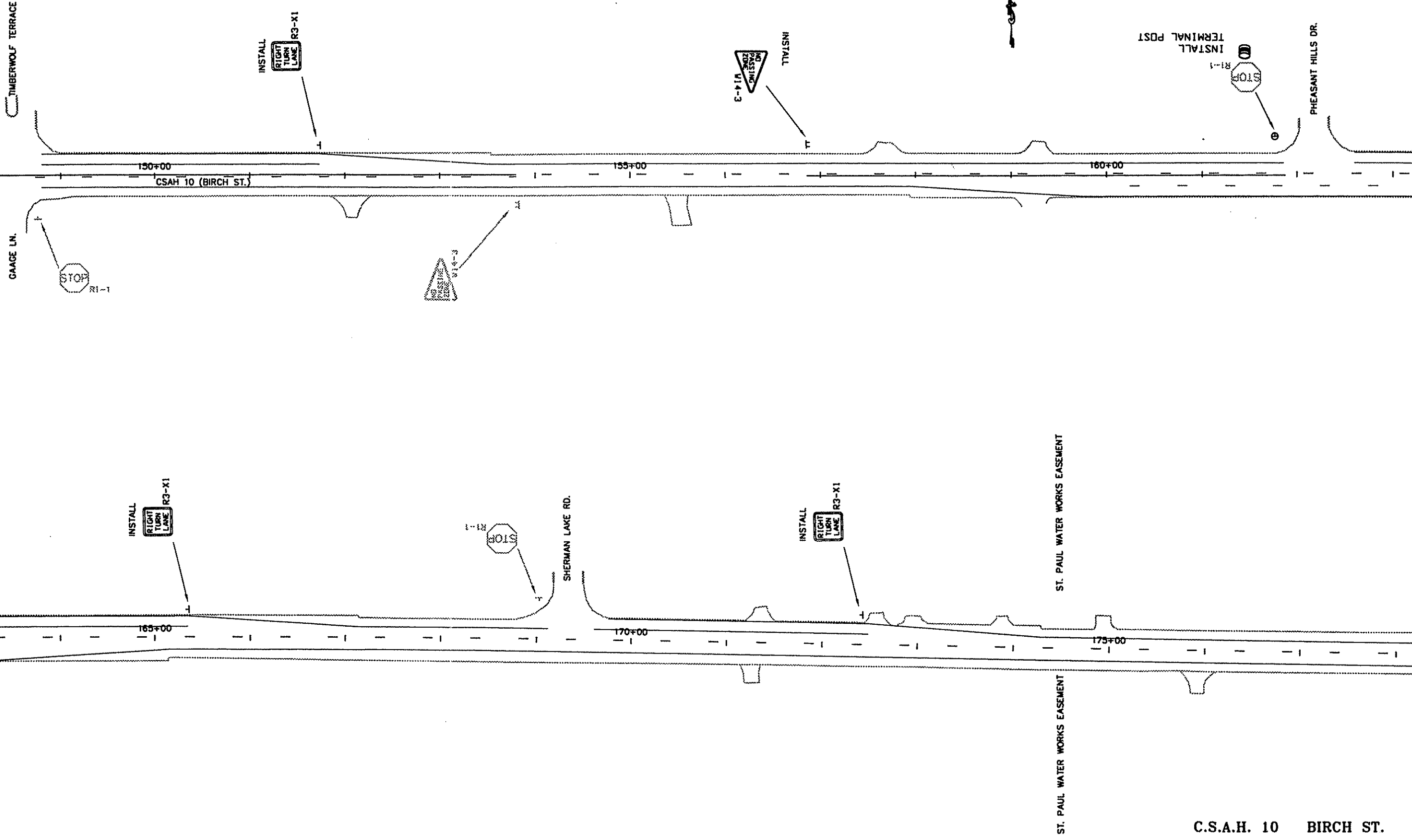
Sheet 26 of 28 Sheets

MATCHLINE 'K' SEE PAGE 26 OF 28

MATCHLINE 'L' SEE ABOVE RIGHT

MATCHLINE 'L' SEE BELOW LEFT

MATCHLINE 'M' SEE PAGE 28 OF 28



C.S.A.H. 10 BIRCH ST.

NO	DATE	BY	CHKD	APPR	REVISION

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

[Signature]
 DATE 10/16/00 REG. NO. 26826

DRAWN BY D.M. DATE 8/2/00
 DESIGN BY DATE
 CHECKED BY DATE

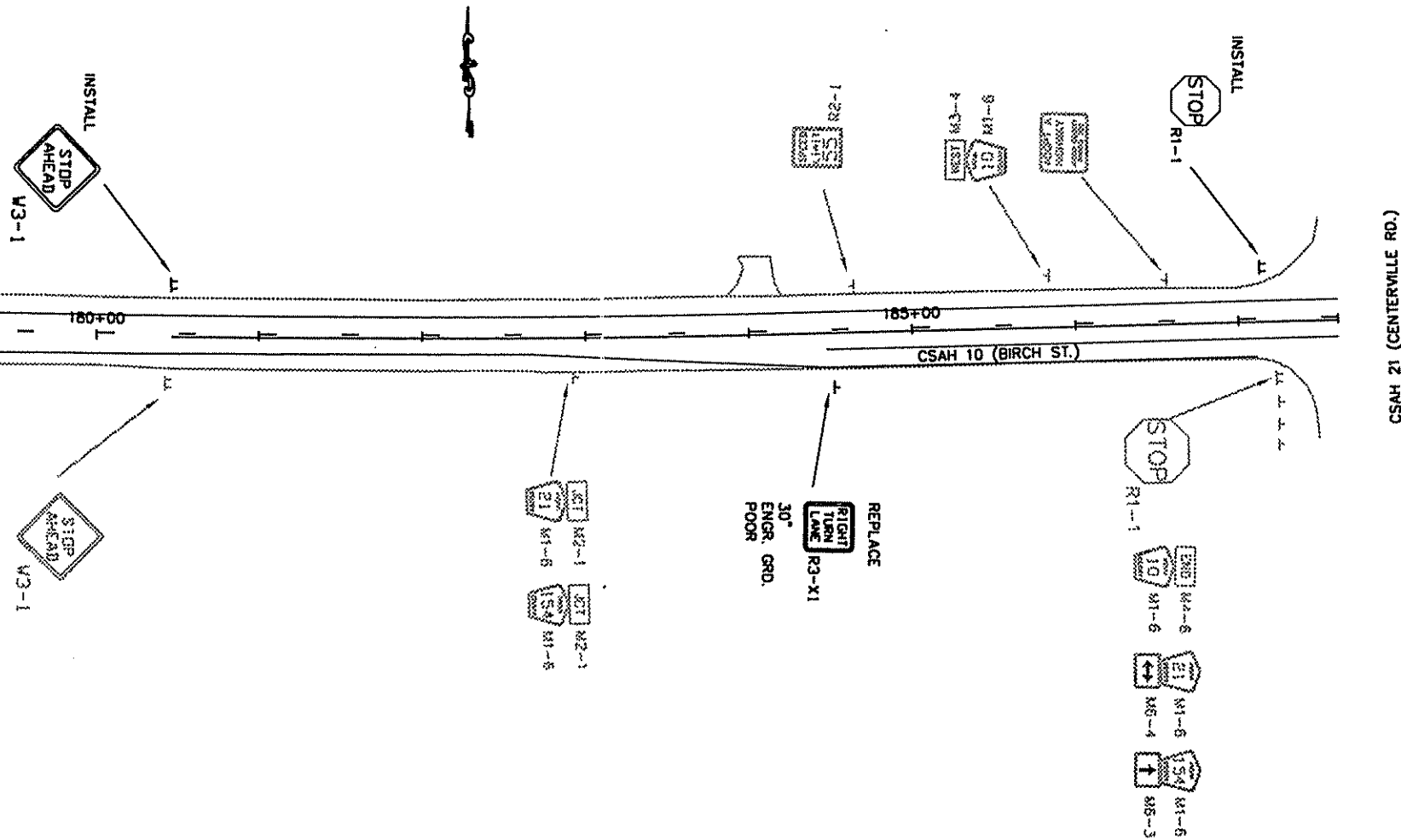


ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 00-06-10

SIGN / STRIPING
 Sheet 27 of 28 Sheets

MATCHLINE 'M' SEE PAGE 27 OF 28



CSAH 21 (CENTERVILLE RD.)

M. U. T. C. D. CODE	SIZE	INSERT	QTY	SQ. FT.	TOTAL SQ. FT.	MOUNTING POST PER INSTALLATION	MOUNTING HEIGHT
R3-X1	30"x30"	RIGHT TURN LANE	13	6.25	81.25	1	7.0
W3-1	36" x36"	STOP AHEAD	1	16.00	16.00	2	7.0
W14-3	42" PENT	NO PASSING ZONE	1	12.00	12.00	2	7.0
S1-1	36" PENT	PED. CROSSING	2	9.00	18.00	2	7.0
S2-1	36" PENT	PED. CROSSING	4	9.00	36.00	2	7.0
S2-P2	24" x 18"	ARROW	4	3.00	12.00		
S4-3	24" x 8"	SCHOOL	2	1.33	2.66	2	7.0
				TOTAL	177.91		

C.S.A.H. 10 BIRCH ST.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Justin Olson
 DATE 10/10/02 REG. NO. 26826

DRAWN BY D.M. DATE 8/2/00
 DESIGN BY DATE
 CHECKED BY DATE



ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 00-06-10

SIGN / STRIPING

Sheet 28 of 28 Sheets

NO	DATE	BY	CKD	APPR	REVISION