

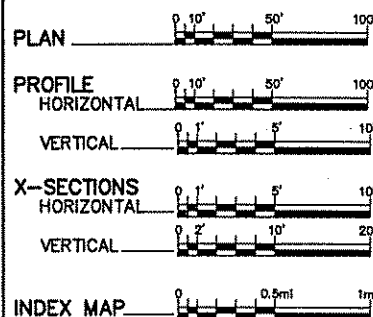
PLAN SYMBOLS

COUNTY LINE	-----
TOWNSHIP OR RANGE LINE	-----
SECTION LINE	-----
QUARTER LINE	-----
SIXTEENTH LINE	-----
RIGHT OF WAY LINE	-----
SLOPE EASEMENT	-----
EXISTING RIGHT OF WAY	-----
PROPERTY LINE	-----
CORPORATE OR CITY LIMITS	-----
RETAINING WALL	-----
RAILROAD	-----
RAILROAD RIGHT OF WAY	-----
RIVER OR CREEK	-----
DRAINAGE DITCH	-----
CULVERT	-----
DROP INLET	-----
GUARD RAIL	-----
BARBED WIRE FENCE	-----
WOVEN WIRE FENCE	-----
CHAIN LINK FENCE	-----
WOOD FENCE	-----
STONE WALL OR FENCE	-----
HEDGE	-----
LOWLAND	-----
TIMBER	-----
ORCHARD	-----
BRUSH	-----
NURSERY	-----
CATTLE GUARD	-----
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 Termination)	-----
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



MINNESOTA DEPARTMENT OF TRANSPORTATION

ANOKA COUNTY

CONSTRUCTION PLAN FOR BITUMINOUS MILLING, BITUMINOUS SURFACING, DRAINAGE RECONSTRUCTION, MEDIAN RECONSTRUCTION

LOCATED ON C.S.A.H. 1 FROM I 694 TO HARTMAN CIRCLE (Geographic Description)

EXCEPTION BETWEEN STA. 22+85 LNB AND STA. 29+55 LNB

EXCEPTION BETWEEN STA. 23+28 LSB AND STA. 39+47 LSB

BRIDGE EXCEPTION BETWEEN STA. 102+79 AND STA. 103+35

STATE AID PROJECT NO. 02-601-42

C.S.A.H. 1

GROSS LENGTH	<u>8,745.0</u> FEET	<u>1.66</u> MILES
BRIDGES-LENGTH	<u>56.0</u> FEET	<u>0.01</u> MILES
LNB EXCEPTIONS-LENGTH	<u>619.0</u> FEET	<u>0.12</u> MILES
LSB EXCEPTIONS-LENGTH	<u>1670.0</u> FEET	<u>0.31</u> MILES
LNB NET LENGTH	<u>8062.0</u> FEET	<u>1.53</u> MILES
LSB NET LENGTH	<u>7,027.0</u> FEET	<u>1.34</u> MILES

BEGIN EXCEPTION BRIDGE #02541
STA. 102+79

END EXCEPTION BRIDGE #02541
STA. 103+35

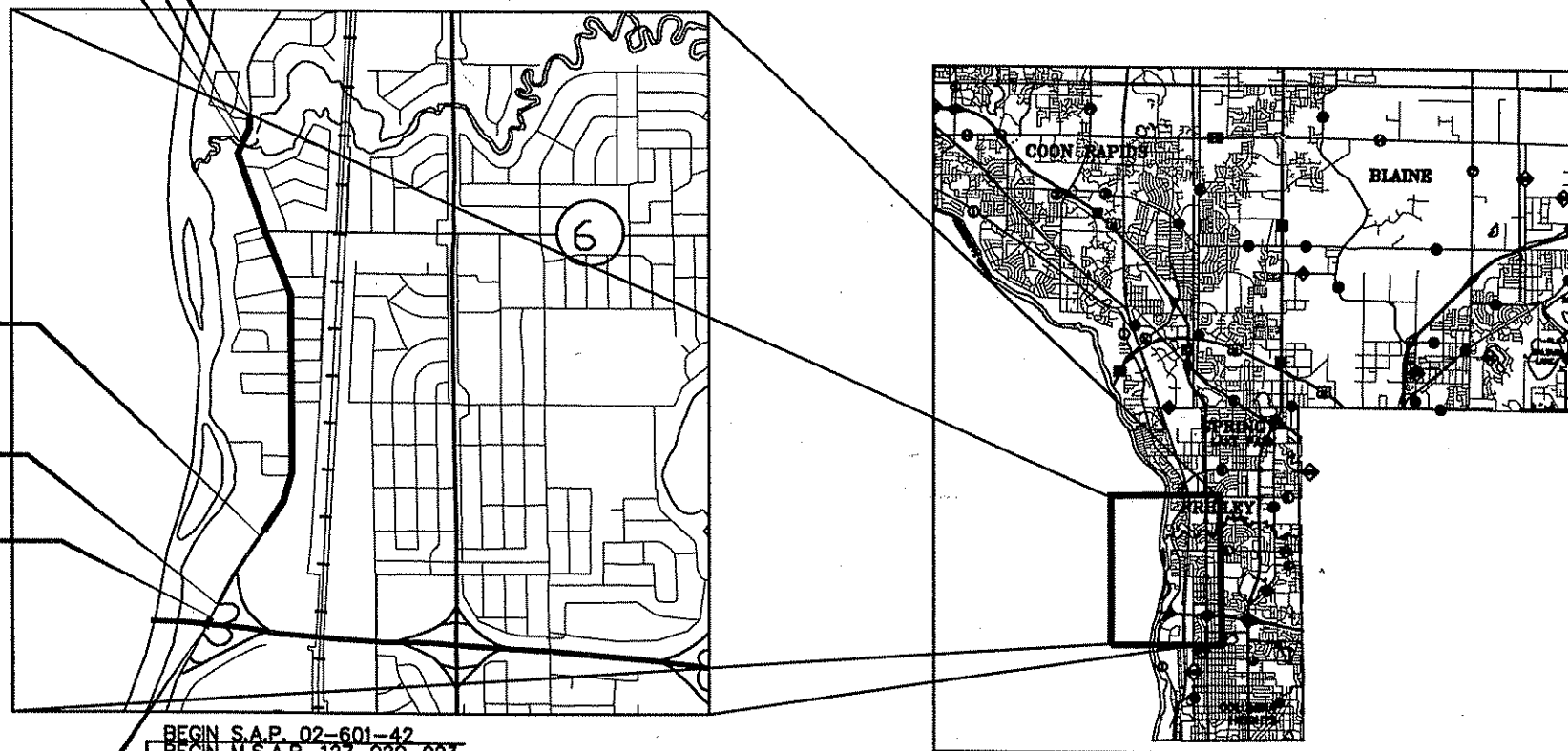
END S.A.P. 02-601-42
END M.S.A.P. 127-020-023
STA. 108+15

END EXCEPTION
STA. 39+47 LSB

END EXCEPTION
STA. 29+55 LNB

BEGIN EXCEPTION
STA. 22+85 LNB
STA. 23+28 LSB

BEGIN S.A.P. 02-601-42
BEGIN M.S.A.P. 127-020-023
STA. 20+70 LNB
STA. 20+88 LSB



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

GOVERNING SPECIFICATIONS

THE 2000 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MMUTCD, INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS - JANUARY, 2001."

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES
3 - 9	TABULATION CHARTS
10 - 11	TYPICAL SECTIONS
12	STORM SEWER LEADS
13	MISSISSIPPI STREET DETAIL
14	62nd WAY DETAIL
15 - 17	EXISTING CONDITIONS AND REMOVAL PLAN
18 - 20	STORM SEWER PLAN
21 - 27	SIGNING AND STRIPING PLAN

THIS PLAN CONTAINS 27 SHEETS

DESIGN DESIGNATION

ESAL ₂₀	<u>1,759,163</u>
R VALUE	<u>60</u>
ADT (2002)	<u>16,549</u>
Proj. ADT (2022)	<u>16,549</u>
Proj. HCADT (2021)	<u>977</u>
Soil Factor	<u>NA</u>
<u>9</u> TON DESIGN	

Functional Classification A MINOR ARTERIAL
 No. of Traffic Lanes 4 No. of Parking Lanes 0
 Design Speed 40 MPH
 Based on Stopping Sight Distance
 Height of eye 3.5' Height of object 0.5'
 Design Speed not achieved at:
 STA. _____ TO STA. _____ MPH
 STA. _____ TO STA. _____ MPH
 STA. _____ TO STA. _____ MPH

Approved 7/2, 2002 *[Signature]*
ANOKA COUNTY ENGINEER

Approved 7/2, 2002 *[Signature]*
CITY OF FRIDLEY

Recommended for Approval 7/2, 2002 *[Signature]*
METRO-ASSISTANT DIVISION ENGINEER-STATE AID

Approved for State Aid Division 7/2, 2002 *[Signature]*
STATE AID ENGINEER

NO	DATE	BY	CHK	APPR	REVISION
1	7/23/02	MG	MD		REVISED SHEET NOS. 18-20

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

PRINT NAME: LYNDON A ROBERT
 SIGNATURE: *[Signature]*
 DATE: 07/02/02 LICENSE NO. 25066

DRAWN BY: BFL DATE: 06/27/02
 DESIGN BY: MFG DATE: 06/27/02
 CHECKED BY: MAD DATE: 06/27/02

ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. 02-601-42
 COUNTY PROJECT NO. 02-07-01
 M.S.A.P. NO. 127-020-023

TITLE SHEET
 Sheet 01 of 27 Sheets

STATEMENT OF ESTIMATED QUANTITIES

TAB/ SHEET NO.	NOTE	ITEM NO.	ITEM	UNIT	TOTAL CONTRACT QUANTITY	ANOKA COUNTY S.A.P. 02-601-42 PARTICIPATING		CITY OF FRIDLEY M.S.A.P. 127-020-02 PARTICIPATING		CITY OF FRIDLEY NON-PARTICIPATING		SEE NOTE
						EST.	FINAL	EST.	FINAL	EST.	FINAL	
		2013.602	CELLULAR MOBILE TELEPHONE	EACH	2	2						
L		2104.501	REMOVE CURB & GUTTER	LIN FT	1598	1598						
L		2104.503	REMOVE CONCRETE WALK	SQ FT	798	798						
A		2104.505	REMOVE BITUMINOUS PAVEMENT, FULL DEPTH	SQ YD	147	147						
	15	2104.505	REMOVE 3 1/2" BITUMINOUS / CLASS 5	SQ YD	3022					3022		
		2104.509	REMOVE CASTING	EACH	20	20						
	1	2104.509	REMOVE GUARD POST	EACH	6	6						
A	15	2104.513	SAWING BITUMINOUS PAVEMENT	LIN FT	630	462				168		
L		2104.511	SAWING CONCRETE, FULL DEPTH	LIN FT	100	100						
H		2104.523	SALVAGE CASTING	EACH	2	2						
		2104.523	SALVAGE SIGN TYPE C	EACH	232	232						
F		2104.604	SALVAGE BRICK PAVERS	SQ YD	440	440						
	2	2105.522	SELECT GRANULAR BORROW (LV)	CU YD	100	100						
	15	2112.501	SUBGRADE PREPARATION	RD STA	8.5					8.5		
	3	2123.610	STREET SWEEPER (WITH PICKUP BROOM)	hour	10	10						
R		2232.501	MILL BITUMINOUS SURFACE, APPROACH TAPERS	SQ YD	51	51						
E		2232.501	MILL BITUMINOUS SURFACE (2"), ROADWAY	SQ YD	63545	63545						
C	4	2331.518	TYPE 41 BITUMINOUS MIXTURE FOR PATCHING	TON	469	469						
C		2340.514	TYPE 31 BASE COURSE	TON	332					332		
C	5, 15	2350.501	TYPE HV 4 WEARING COURSE MIXTURE (E)	TON	8645	8396				249		
A	6	2350.604	TYPE LV 4 WEARING COURSE MIXTURE, 5" THICK	SQ YD	147	147						
C	7, 15	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	4901	4750				151		
J		2503.610	CLEAN DRAINAGE PIPE	hour	4	4						
	15	2504.602	ADJUST GATE VALVE AND BOX	EACH	36			34		2		
N		2506.503	RECONSTRUCT DRAINAGE STRUCTURE	LIN FT	51.5	51.5						
H		2506.516	CASTING ASSEMBLY	EACH	20	20						
H		2506.521	INSTALL CASTING	EACH	2	2						
Q		2506.522	ADJUST FRAME & RING CASTING	EACH	12	12						
		2506.522	ADJUST FRAME & RING CASTING (SANITARY)	EACH	30			30				
	15	2506.602	INSTALL SANITARY MANHOLE CASTING (CITY PROVIDED)	EACH	3					3		
	15	2506.602	INSTALL STORM MANHOLE CASTING (CITY PROVIDED)	EACH	1					1		
G		2506.610	REPAIR AND FINISH DRAINAGE STRUCTURE	hour	15	15						
M		2521.501	4" CONCRETE WALK	SQ FT	43674	13694		29980				
M		2521.501	6" CONCRETE WALK	SQ FT	743	743						
D		2521.604	FOUNDATION PREPARATION FOR WALK, PLANTER BED MEDIAN	SQ YD	1464	1464						
D		2521.604	FOUNDATION PREPARATION FOR WALK, BITUMINOUS MEDIAN	SQ YD	1901			1901				
D		2521.604	FOUNDATION PREPARATION FOR WALK, STAMPED CONCRETE	SQ YD	474			474				
D		2521.604	FOUNDATION PREPARATION FOR WALK, BRICK PAVERS	SQ YD	923			923				
F		2521.604	INSTALL BRICK PAVERS	SQ YD	440	440						
M		2531.501	CONCRETE CURB & GUTTER, DESIGN B612	LIN FT	1310	1310						
M		2531.501	CONCRETE CURB & GUTTER, DESIGN B618	LIN FT	80	80						
		2563.601	TRAFFIC CONTROL	LUMP SUM	1	1						
	9	2563.610	POLICE OFFICER	hour	50	50						
	8	2563.611	PORTABLE CHANGEABLE MESSAGE SIGN	DAY	60	60						
		2564.531	SIGN PANEL, TYPE C	SQ FT	1380	1380						
	16	2564.602	TEMPORARY RELOCATE SIGN TYPE C	EACH	90	90						
		2564.602	PAVEMENT MESSAGE (RIGHT-THRU ARROW) POLY PREFORM	EACH	1	1						
		2564.602	PAVEMENT MESSAGE (LEFT ARROW) POLY PREFORM	EACH	11	11						
		2564.602	PAVEMENT MESSAGE (RIGHT ARROW) POLY PREFORM	EACH	11	11						
		2564.603	4" SOLID LINE WHITE - PAINT	LIN FT	21172	21172						
		2564.603	4" SOLID LINE YELLOW PAINT	LIN FT	24160	24160						
		2564.603	4" BROKEN LINE WHITE - PAINT	LIN FT	3368	3368						
	10	2564.603	4" SOLID LINE WHITE - PAINT (TEMPORARY)	LIN FT	8340	8340						
	10	2564.603	4" BROKEN LINE WHITE - PAINT (TEMPORARY)	LIN FT	2980	2980						
		2564.603	24" SOLID LINE WHITE - POLY PREFORM	LIN FT	290	290						
		2564.603	36" SOLID LINE WHITE - POLY PREFORM	LIN FT	636	636						
	11	2565.602	LOOP DETECTOR 6' X 6'	EACH	40	40						
	12	2565.602	RECONSTRUCT HANDHOLE	EACH	2	2						
	13	2575.505	SODDING, TYPE LAWN	SQ YD	90	90						
	13	2575.532	COMMERCIAL FERTILIZER, ANALYSIS 22-5-10 (SLOW RELEASE)	LB	10	10						
	14	2580.501	TEMPORARY LANE MARKING	LIN FT	2980	2980						

BASIS OF PLANNED QUANTITIES	
2331	TYPE 31 BASE COURSE MIXTURE 110 LBS / SQ YD / INCH
2350	TYPE HV 4 WEARING COURSE MIXTURE 110 LBS / SQ YD / INCH
2357	BITUMINOUS MATERIAL FOR TACK COAT 0.05 GAL / SQ YD / PER LIFT APPLIED
2575	COMMERCIAL FERTILIZER, ANALYSIS 22-5-10 (SLOW RELEASE) 200 LBS / ACRE FOR SOD AREAS

NOTES	
1	REMOVE SIGNAL BASE GUARD POSTS AT STA 39+50 AND 40+35
2	FOR REPLACEMENT OF UNSUITABLE SOILS IN THE MEDIAN, IF SO DIRECTED BY THE ENGINEER.
3	FOR CLEANING THE ROADWAY AFTER EACH DAYS WORK OF PREPARING THE RAISED PLANTER BED MEDIANS FOR SIDEWALK.
4	FOR PATCHING THE MILLED BITUMINOUS AS NEEDED, AS DIRECTED BY THE ENGINEER, BEFORE PAVING THE BITUMINOUS WEAR COURSE.
5	INCLUDES AN ADDITIONAL 45 # PER SQUARE YARD FOR VARIATIONS IN THE MILLED BITUMINOUS SURFACE.
6	FOR PATCHING AT CB RECONSTRUCT LOCATIONS AND OTHER PATCHING AREAS AS DIRECTED BY THE ENGINEER.
7	TACK FOR MILLED BITUMINOUS AREAS ESTIMATED AT 0.075 GAL PER SQUARE YARD.
8	FOR INFORMING THE PUBLIC OF TRAFFIC HAZARDS AND DELAYS, AS DIRECTED BY THE ENGINEER.
9	FOR DIRECTING TRAFFIC THRU SIGNALIZED INTERSECTIONS DURING CONSTRUCTION.
10	FOR MARKING LANE DELINEATION TRAFFIC PAINT LINES ON MILLED BITUMINOUS SURFACE AT THE END OF EACH DAY OF MILLING.
11	FOR REPLACEMENT OF LOOP DETECTORS REMOVED DURING THE MILL BITUMINOUS WORK..
12	FOR LOWERING INPLACE HANDHOLES AT STA 88+90 RT AND 89+50 LT, AS DIRECTED BY THE ENGINEER.
13	FOR TURF ESTABLISHMENT ADJACENT TO NEW SIDEWALK.
14	FOR MARKING LANE DELINEATION AT THE END OF EACH DAY OF BITUMINOUS PAVING.
15	INCLUDES QUANTITY FOR 62ND WAY CONSTRUCTION
16	MEDIAN SIGNS

1	08/08/02	BFL		UPDATED MILLING, BITUMINOUS AND TACK COAT QUANTITIES
NO	DATE	BY	CKD	APPR
NAME	S:\SDSKPRG\000000\000000\028000.DWG			

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: KIMON ROBERT
 SIGNATURE: [Signature]
 DATE: 07/02/02 LICENSE NO. 25066

DRAWN BY: PML DATE: 07/02/02
 DESIGN BY: PML DATE: 07/02/02
 CHECKED BY: LAR DATE: 07/02/02



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. 02-601-42
 M.S.A.P. NO. 127-020-023
 COUNTY PROJECT NO. 02-07-01

TABULATION CHARTS
 Sheet 02 of 27 Sheets

BITUMINOUS CONSTRUCTION AT CATCH BASINS					(A)
CATCH BASIN	STATION	LOCATION	BITUMINOUS REMOVAL	SAW CUT BITUMINOUS	LV4 WEAR
			SQ YD	LIN FT	SQ YD
102	2150	25' RT	7	22	7
101	2200	25' RT	7	22	7
106	2205	32' LT	7	22	7
147	4909	62' LT	7	22	7
157	5955	24' LT	7	22	7
178	7380	28' LT	7	22	7
177	7411	62' LT	7	22	7
175	7413	23' LT	7	22	7
172	7413	13' RT	7	22	7
176	7414	62' LT	7	22	7
166	7571	20' LT	7	22	7
189	7648	63' LT	7	22	7
202	8301	26' LT	7	22	7
203	8301	11' LT	7	22	7
211	10127	19' LT	7	22	7
208	10223	25' LT	7	22	7
208	10223	25' LT	7	22	7
226	10590	25' LT	7	22	7
226	10590	25' LT	7	22	7
228	10739	25' LT	7	22	7
229	10763	64' LT	7	22	7
TOTALS:			147	462	147

ADJUST GATE VALVES		(B)
LNB STATION	LOCATION	NO. OF VALVES
45+96	56 Lt	1
46+01	9 Lt	1
46+07	57 Lt	1
46+07	12 Rt	1
52+82	0 Lt	1
53+00	3 Rt	1
56+56	2 Rt	1
61+30	19 Lt	1
61+56	7 Lt	1
63+01	25 Lt	1
64+80	2 Lt	1
65+97	23 Lt	1
67+86	0 Lt	1
69+66	23 Lt	1
71+23	0 Rt	1
74+43	17 Lt	1
74+46	2 Rt	1
75+37	81 Lt	1
77+67	14 Rt	1
81+05	3 Rt	1
88+55	31 Lt	1
88+39	24 Rt	1
88+42	27 Rt	1
88+42	20 Rt	1
88+44	24 Rt	1
97+64	23 Rt	1
99+38	14 Rt	1
99+54	16 Rt	1
99+98	8 Rt	1
100+36	5 Rt	1
104+34	1 Rt	1
106+87	2 Rt	1
106+90	0 Rt	1
106+92	2 Rt	1
62nd WAY		2
TOTAL:		36

ADJUST SANITARY MANHOLE, EACH		(T)
LNB STATION	OFFSET	ADJUST (EACH)
4322	21'RT	1
4615	19'RT	1
5292	9'RT	1
5553	9'LT	1
5861	9'RT	1
6167	7'RT	1
6187	17'RT	1
6490	9'RT	1
6796	10'RT	1
6796	8'RT	1
6948	8'RT	1
7130	7'RT	1
7455	6'RT	1
7780	4'RT	1
7818	57'LT	1
7904	57'LT	1
8119	40'LT	1
8516	26'LT	1
8774	31'LT	1
8879	31'LT	1
8933	30'LT	1
9243	15'LT	1
9557	15'LT	1
9834	59'LT	1
10505	14'RT	1
10701	12'RT	1
62nd WAY		4
TOTAL:		30

INDEX OF TABULATION CHARTS		
CHART	SHEET NUMBER	DESCRIPTION
A	3	BITUMINOUS CONSTRUCTION AT CATCH BASINS
B	3	ADJUST GATE VALVES
C	4	BITUMINOUS SUMMARY SHEET
D	4	MEDIAN FOUNDATION PREPARATION
E	4	MILL BITUMINOUS
F	4	SALVAGE AND INSTALL BRICK PAVERS
G	5	REPAIR AND FINISH DRAINAGE STRUCTURE, HOUR
H	5	CASTING ASSEMBLY SCHEDULE
J	5	CLEAN DRAINAGE PIPE, HOUR
K	5	TEMPORARY TRAFFIC PAINT
L	7	CONCRETE REMOVALS
M	8	CONCRETE CONSTRUCTION
N	9	PROPOSED STORM SEWER CONSTRUCTION
Q	6	ADJUST STORM SEWER MANHOLE CASTING
R	6	MILL BITUMINOUS TAPERS
T	3	ADJUST SANITARY MANHOLE, EACH

BITUMINOUS SUMMARY SHEET								(C)
STATION	STATION	LOCATION	DESCRIPTION	AREA	WEARING COURSE MIXTURE	PATCHING MIXTURE	BASE COURSE MIXTURE	TACK COAT
				SQ FT	TONS	TONS	TON	GALLON
20+70	22+85	LSB	MAINLINE	7403	109	6		62
20+86	23+28	LNB	MAINLINE	7940	117	7		66
29+55	39+49	LNB	MAINLINE	40829	601	34		340
29+55	31+00	LNB & LSB	MAINLINE	4455	66	4		37
39+49	53+48	LNB & LSB	MAINLINE	93974	1384	78		783
53+48	60+89	LNB & LSB	MAINLINE	62337	918	52		519
60+89	65+65	LNB & LSB	MAINLINE	36057	531	30		300
65+65	69+09	LNB & LSB	MAINLINE	24689	363	21		206
69+09	71+12	LNB & LSB	MAINLINE	14993	221	12		125
71+12	74+94	LNB & LSB	MAINLINE	29777	438	25		248
74+94	88+34	LNB & LSB	MAINLINE	94217	1387	79		785
88+34	99+17	LNB & LSB	MAINLINE	81513	1200	68		679
99+17	102+79	LNB & LSB	MAINLINE	27991	412	23		233
103+35	108+15	LNB & LSB	MAINLINE	36095	531	30		301
69+50		LEFT	62nd WAY	27198	249		332	151
89+18	89+85	LEFT	MISS. WAY	3769	46			25
88+06	88+63	RIGHT	MISS. ST.	2787	72			39
TOTALS					8645	469	332	4901

MILL BITUMINOUS				(E)
BEGINNING STATION	ENDING STATION	AREA	ALIGNMENT	REMARKS
		SQ FT		
29+55	39+49	40829	LNB	
39+49	53+48	93974	LNB & LSB	
29+55	31+00	4455	LNB & LSB	1694 Ramp
53+48	60+89	62337	LNB & LSB	
60+89	65+65	36057	LNB & LSB	
65+65	69+09	24689	LNB & LSB	
69+09	71+12	14993	LNB & LSB	
71+12	74+94	29777	LNB & LSB	
74+94	88+34	94217	LNB & LSB	
88+34	99+17	81513	LNB & LSB	
99+17	102+79	27991	LNB & LSB	
103+35	108+15	36095	LNB & LSB	
20+86	23+28	7940	LNB	
20+70	22+85	7403	LSB	
MISSISSIPPI STREET (East)		5866		
MISSISSIPPI WAY (West)		3769		
Total:		571906	SQ FT	
Total:		63545	SQ YDS	

Note: Bituminous milled to a depth up to 2 1/2" shall be paid at the Contract Unit Price; Areas directed by the Engineer to be milled to a depth from 2 5/8" to 3 1/2" shall be paid for at 125% of the Contract Unit Price. Areas directed by the Engineer to milled to a depth from 3 5/8" to 4 1/2" shall be paid for at 150% of the Contract Unit Price.

MEDIAN FOUNDATION PREPARATION						(D)
STATION	STATION	BITUMINOUS MEDIAN	RAISED PLANTER BED MEDIAN	STAMPED CONCRETE MEDIAN	BRICK PAVER MEDIAN	
		SQ YD	SQ YD	SQ YD	SQ YD	
40+40	52+50	1152				
53+47	57+40		577			
57+40	60+90			111		
61+80	65+64			169		
66+25	67+65		176			
67+65	69+08			97		
69+70	71+15		195			
71+76	74+93			97		
75+60	79+60		516			
79+60	88+40	593				
88+00		55				
89+00		21				
89+36		79				
89+16	99+18				923	
Totals:		1901	1464	474	923	


SALVAGE AND INSTALL BRICK PAVERS						(F)
STATION	STATION	LOCATION	STRUCTURE NUMBER	SALVAGE BRICK PAVERS SQ YD	INSTALL BRICK PAVERS SQ YD	
10127		25' Lt	211	42	42	
10223		25' Lt	208	42	42	
10590		25' Lt	226	77	77	
10739		25' Lt	228	42	42	
10763	10843	64' Lt	229	237	237	
TOTALS				440	440	

REPAIR AND FINISH DRAINAGE STRUCTURE, HOUR					(G)
EXISTING STRUCTURE NUMBER	STRUCTURE TYPE	LNB STATION	LOCATION	INPLACE STRUCTURE	PROPOSED CONSTRUCTION HOUR
105	CB	20+23.	14' Lt	Precast Cone	1
149	CB	52+38.	23' Rt	Precast Cone	1
154	MH	59+55.	18' Rt	Block, Design C	1
155	CB	59+55.	24' Rt	Block, Design H	1
158	CB	59+55.	30' Lt	Block, Design H	1
159	CB	59+55.	63' Lt	Block, Design H	1
160	CB	61+45.	13' Rt	Block, Design C	1
182	CB	69+02.	25' Lt	Block, Design C	1
183	CB	69+02.	30' Lt	48" Diam. Block with 6" top slab	1
184	CB	69+06.	64' Lt	Block, Design H	1
192	CB	75+59.	86' Lt	1.5' x 3.0' Rectangle Block	1
167	MH	75+68.	12' Rt	48" Diam. Block with 6" top slab	1
169	CB	75+71.	30' Lt	Precast, Design H	1
188	MH	76+48.	66' Lt	Block, Design C	1
187	CB	77+94.	61' Lt	Block, Design C	1
TOTAL					15

TEMPORARY TRAFFIC PAINT						(K)
STATION	STATION	LENGTH	4" BROKEN LINE WHITE - PAINT LIN FT	4" SOLID LINE WHITE - PAINT LIN FT	DIRECTION	REMARKS
20+86	23+28	242	60		NB	
29+55	39+47	992	210		NB	
36+62	39+47	285		285	NB	Longview Fibre Entrance
36+62	39+47	285		285	NB	Georgetown Apartments Entrance
40+35	60+90	2055	420		NB	
50+85	52+50	165		165	NB	Charles Street N.E.
57+90	60+90	300		300	NB	61st Way N.E.
57+90	60+90	300		300	NB	Stevenson School Entrance
61+80	88+40	2660	540		NB	
64+35	65+65	130		130	NB	River Edge Way
68+10	69+10	100		100	NB	62nd Way
74+10	74+95	85		85	NB	63rd Way
85+40	88+25	285		285	NB	Mississippi Way
85+65	88+20	255		255	NB	Mississippi Street
89+10	108+23	1913	390		NB	
97+95	99+15	120		120	NB	Banfill-Locke Center Entrance
97+65	99+15	150		150	NB	Rice Creek Way
108+23	89+35	1888	390		SB	
93+25	89+35	390		390	SB	Mississippi Way
92+15	89+35	280		280	SB	Mississippi Street
88+35	61+80	2655	550		SB	
72+80	71+80	100		100	SB	62 1/2 Way
64+00	61+70	230		230	SB	Stevenson School Entrance
60+90	40+40	2050	420		SB	
56+10	53+50	260		260	SB	Charles Street
43+30	40+40	290		290	SB	
42+00	40+40	160		160	SB	Georgetown Apartments Entrance
NORTHBOUND BITUMINOUS MILL:			1620	2460		
NORTHBOUND BITUMINOUS PAVING:				2460		
SOUTHBOUND BITUMINOUS MILL:			1360	1710		
SOUTHBOUND BITUMINOUS PAVING:				1710		
TEMPORARY TRAFFIC PAINT TOTAL:			2980	8340		

CASTING ASSEMBLY SCHEDULE						(H)
ASS'Y TYPE	NO. REQ'D	FRAME CASTING	GRATE CASTING	CURB BOX CASTING	RING CASTING	COVER CASTING
A	16	801	810	821B		
B	1				700-7	716
C	1	802A	816	823A		
D	2	802A	811	823A		
E*	2					
* SALVAGE AND INSTALL CASTING ASSEMBLY						

CLEAN DRAINAGE PIPE, HOUR				(J)
STRUCTURE NUMBER	TO STRUCTURE NUMBER	PIPE SIZE	LENGTH	
		IN	FT	
126	125A	12"	50	
148	147	12"	135	
151	149	12"	110	
155	154	12"	18	
184	181	12"	75	
ESTIMATE FOUR HOURS TO CLEAN PIPE				

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINT NAME: <u>ALAN ROBERT</u> SIGNATURE: <u>[Signature]</u> DATE: <u>07/02/02</u> LICENSE NO. <u>25066</u>					DRAWN BY: <u>PML</u> DATE <u>06/27/02</u> DESIGN BY: <u>PML</u> DATE <u>06/27/02</u> CHECKED BY: <u>MAD</u> DATE <u>06/27/02</u>		 ANOKA COUNTY HIGHWAY DEPT.		STATE PROJECT NO. _____ STATE AID PROJECT NO. <u>02-601-42</u> M.S.A.P. NO. <u>127-020-023</u> COUNTY PROJECT NO. <u>02-07-01</u>		TABULATION CHARTS Sheet <u>05</u> of <u>27</u> Sheets	
NO	DATE	BY	CKD	APPR	REVISION							

THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT.

STANDARD PLATES

PLATE NO.	DESCRIPTION
M3000L	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
4000 J	MANHOLE OR CATCH BASIN (MASONRY, FIELD CONSTRUCTED) - DESIGN A
4002 F	MANHOLE OR CATCH BASIN (MASONRY, FIELD CONSTRUCTION) - DESIGN C
4005 L	MANHOLE OR CATCH BASIN TYPE A & B CONE PRECAST SECTIONS - DESIGN F
4006 L	MANHOLE OR CATCH BASIN PRECAST - DESIGNS G AND H
4010 H	CONCRETE SHORT CONE & ADJUSTING RING (SECTIONAL CONCRETE)
4020 I	MANHOLE OR CATCH BASIN COVER (FOR USE WITH OR WITHOUT TRAFFIC LOADS)
4026 A	CONCRETE ENCASED CONCRETE ADJUSTING RINGS
4101 D	RING CASTING FOR MANHOLE OR CATCH BASIN
4110 F	COVER CASTING FOR MANHOLE (FOR USE IN ALL TRAFFIC AREAS) - CASTING NO. 715 AND 716
4125 D	CATCH BASIN FRAME CASTING (FOR SQUARE GRATE) - CASTING NO. 806
4126 F	CATCH BASIN FRAME CASTING - CASTING NO. 801
4129 G	CATCH BASIN FRAME CASTING (FOR SQUARE GRATE) - CASTING NO. 802A
4149 C	GRATE CASTING FOR CATCH BASIN - CASTING NO. 810
4151 B	GRATE CASTING FOR CATCH BASIN (SQUARE TYPE) - CASTING NO. 811
4154 B	CATCH BASIN GRATE CASTING - CASTING NO. 816
4160 D	CURB BOX CASTING FOR CATCH BASIN - CASTING NO. 823A AND 833A
4161 F	CURB BOX CASTING FOR CATCH BASIN - CASTING NO. 821B, 822 AND 831A
4180 J	MANHOLE OR CATCH BASIN STEP
7036 E	PEDESTRIAN CURB RAMP (FOR THE HANDICAPPED)
7100 G	CONCRETE CURB AND GUTTER (DESIGN B AND DESIGN V)
7111 J	INSTALLATION OF CATCH BASIN CASTINGS (CONCRETE CURB AND GUTTER)
7113 A	CONCRETE APPROACH NOSE DETAIL
8000 I	STANDARD BARRICADE
8114 A	P.V.C. HANDHOLE/PULLBOX (NO VEHICLE LOAD) (2 SHEETS)

MILL BITUMINOUS TAPERS				(R)
STATION	STATION	LOCATION	AREA	REMARKS
			SQ YD	
20+71		20 Lt - 16 Rt	4	Southbound under Bridge, South Side
20+87		11 Lt - 23 Rt	4	Nothbound under Bridge, South Side
22+28		12 Lt - 25 Rt	4	Northbound under Bridge, North Side
22+88		19 Lt - 18 Rt	4	Southbound under Bridge, North Side
29+50	29+64	218 Rt	2	Westbound I694 Ramp
29+60		13 Lt - 20 Rt	4	Northbound at I694 Ramp
39+50		27 - 66 Lt	4	Southbound Georgetown Approach
88+02	88+20	53 - 65 Rt	3	Mississippi Street Free Right
88+43	89+00	56 - 66 Rt	7	Mississippi Street
89+27	89+59	97 - 123 Lt	4	Mississippi Way
89+63	89+84	97 - 107 Lt	2	Miss. Way Free Right
108+15		20 Lt - 13 Rt	4	Southbound
108+15		16 Lt - 20 Rt	4	Northbound
		TOTAL:	51	

ADJUST STORM SEWER MANHOLE CASTING		(Q)
STATION	OFFSET	RIGHT OR LEFT
77+90	11.0	RIGHT
75+42	67.0	LEFT
74+69	18.0	RIGHT
71+09	12.0	RIGHT
69+03	13.0	RIGHT
61+46	12.0	RIGHT
59+56	18.0	RIGHT
56+51	12.0	RIGHT
49+09	12.0	RIGHT
46+24	4.0	RIGHT
45+38	12.0	RIGHT
43+13	12.0	RIGHT
	TOTAL:	12

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-01-00\02-07-01\Plan\06-TAB SHEET.dwg 07/02/2002 03:54:08 PM CDT

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

PRINT NAME: ANDREW ROBERTSON
 SIGNATURE: [Signature]
 DATE: 07/02/02 LICENSE NO. 25066

DRAWN BY BEL DATE 06/27/02
 DESIGN BY MFG DATE 08/27/02
 CHECKED BY MAD DATE 06/27/02



**ANOKA COUNTY
HIGHWAY DEPT.**

STATE PROJECT NO. _____
 STATE AID PROJECT NO. 02-601-42
 M.S.A.P. NO. 127-020-023
 COUNTY PROJECT NO. 02-07-01

TABULATION CHARTS
 Sheet 6 of 27 Sheets

CONCRETE REMOVALS						(L)
STATION	STATION	LOCATION	STRUCTURE / LOCATION	REMOVE CURB AND GUTTER	REMOVE CONCRETE WALK	SAWCUT B612 & B618 C&G
				LIN FT	SQ FT	LIN FT
21+50		25' Rt	CB 102	10		4
22+00		25' Rt	CB 101	10		4
22+05		32' Lt	CB 106	10		4
31+30		34' Rt	CB 126	10		4
39+46		24' Lt	(1)	10		3
40+36		12' Lt	(1)	10		
43+13		17' Lt	CB 142	10		3
49+09		62' Lt	CB 147	10		4
50+56		64' Lt	CB 148	10		4
52+45		24' Lt	(1)	10		
53+50		12' Lt	(1)	14		
59+55		24' Lt	CB 157	10		3
60+85		24' Lt	(1)	10		
61+80	63+10	19' Lt	MEDIAN CURB	130		3
61+82		12' Lt	(1)	10		
65+60		24' Lt	(1)	10		
66+35		22' Lt	(1)	11		
69+05		24' Lt	(1)	10		
69+75		20' Lt	(1)	11		
71+07		12' Lt	(1)	11		
71+75	74+05	19' Lt	MEDIAN CURB	230		3
71+78		12' Lt	(1)	10		
73+80		28' Lt	CB 178	10		3
74+11		62' Lt	CB 177	10		4
74+13		23' Rt	CB 175	10		3
74+14		62' Lt	CB 176	10		4
74+90		24' Lt	(1)	10		
75+68		22' Lt	(1)	11		
(1) CONCRETE ISLAND NOSE CONSTRUCTION						
(2) PEDESTRIAN CURB RAMP						
(3) PORK CHOP ISLAND						

CONCRETE REMOVALS						(L)
STATION	STATION	LOCATION	STRUCTURE / LOCATION	REMOVE CURB AND GUTTER	REMOVE CONCRETE WALK	SAWCUT B612 & B618 C&G
				LIN FT	SQ FT	LIN FT
75+71		20' Lt	CB 168	10		3
76+48		63' Lt	CB 189	10		4
79+50		23' Lt	CB 195	10		3
81+50	81+90	14' Lt	MEDIAN CURB	40		3
82+50	82+70	25' Lt	MEDIAN CURB	20		3
83+01		26' Lt	CB 202	10		3
83+01		11' Lt	CB 203	10		3
85+00	85+10	30' Lt	MEDIAN CURB	10		3
87+80		60' Rt			300	
87+96		67' Rt	(2)		86	
88+10		22' Rt	(3)	10		4
88+21		52' Rt	(2), (3)		18	
88+29		27.5' Rt	(2), (3)		29	
88+37		12' Lt	(1)	10		
88+50	88+79	63.95 - 78' Lt	(2) + 6' Walk		183	
88+74	88+93	30.84 - 45' Rt	(2) + 6' Walk		68	
89+08		69.75' Lt	(2) at Miss. Way		46	
89+17		12' Lt	(1)	10		
89+41		95' Lt	(2), (3)		19	
89+62		66' Lt	(2), (3)		22	
89+89		115.5' Lt	(2)		30	
92+80	99+20	30' Lt	MEDIAN CURB	640		3
99+17		20' Lt	(1)	10		
100+07		10' Lt	(1)	10		
101+27		19' Lt	CB 211	10		3
102+23		26' Lt	CB 208	10		3
105+73	106+53	14' Lt	MEDIAN CURB	80		3
106+52		24' Lt	(1)	10		
107+30	107+60	14' Lt	MEDIAN CURB	30		3
107+35		22' Lt	(1)	10		
107+63		64' Lt	CB 229	10		3
TOTALS:				1598	798	100

NO	DATE	BY	CHKD	APPR	REVISION

NAME: P:\02-01-00\02-07-01\Plan\07A-TAB SHEET.dwg 07/02/2002 03:57:22 PM CDT

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

PRINT NAME: ANDREW ROBERT

SIGNATURE: [Signature]

DATE: 07/02/02 LICENSE NO. 25066

DRAWN BY: BEL DATE: 08/27/02

DESIGN BY: MFG DATE: 08/27/02

CHECKED BY: MAD DATE: 08/27/02



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
STATE AID PROJECT NO. 02-601-42
M.S.A.P. NO. 127-020-023
COUNTY PROJECT NO. 02-07-01

TABULATION CHARTS

Sheet 7 of 27 Sheets

CONCRETE CONSTRUCTION									(M)
STATION	STATION	LOCATION	STRUCTURE / LOCATION	CONCRETE CURB & GUTTER DESIGN B612	CONCRETE CURB & GUTTER DESIGN B618	4" CONCRETE WALK	6" CONCRETE WALK	REMARKS	
				LIN FT	LIN FT	SQ FT	SQ FT		
21+50		25' Rt	CB 102		10				
22+00		25' Rt	CB 101		10				
22+05		32' Lt	CB 106		10				
31+30		34' Rt	CB 126		10				
39+46		24' Lt	(1)				36		
40+36		12' Lt	(1)				36	(5)	
40+40	52+50		(2)			10368			
43+13		17' Lt	CB 142	10					
49+09		62' Lt	CB 147		10				
50+56		64' Lt	CB 148		10				
52+45		24' Lt	(1)				36	(5)	
53+47	57+40		(2)			5193			
53+50		12' Lt	(1)				51	(5)	
57+40	60+90		(2)			999			
59+55		24' Lt	CB 157	10					
60+85		24' Lt	(1)				36	(5)	
61+80	63+10	19' Lt	Median Curb	130					
61+80	65+64		(2)			1521			
61+82		12' Lt	(1)				36	(5)	
65+60		24' Lt	(1)				36	(5)	
66+25	67+65		(2)			1584			
66+35		22' Lt	(1)				38	(5)	
67+65	69+08		(2)			873			
69+05		24' Lt	(1)				36	(5)	
69+70	71+15		(2)			1755			
69+75		20' Lt	(1)				38	(5)	
71+07		12' Lt	(1)				38	(5)	
71+75	74+05	19' Lt	Median Curb	230					
71+76	74+93		(2)			873			
(1) CONCRETE ISLAND NOSE CONSTRUCTION									
(2) CONCRETE MEDIAN CONSTRUCTION									
(3) PEDESTRIAN CURB RAMP									
(4) PORKCHOP MEDIAN									
(5) CONSTRUCT CONCRETE APPROACH NOSE 7713A									

CONCRETE CONSTRUCTION									(M)
STATION	STATION	LOCATION	STRUCTURE / LOCATION	CONCRETE CURB & GUTTER DESIGN B612	CONCRETE CURB & GUTTER DESIGN B618	4" CONCRETE WALK	6" CONCRETE WALK	REMARKS	
				LIN FT	LIN FT	SQ FT	SQ FT		
71+78		12' Lt	(1)				36	(5)	
73+80		28' Lt	CB 178	10					
74+11		62' Lt	CB 177		10				
74+13		23' Rt	CB 175	10					
74+14		62' Lt	CB 176		10				
74+90		24' Lt	(1)				36	(5)	
75+60	79+60		(2)			4644			
75+68		22' Lt	(1)				38	(5)	
75+71		20' Lt	CB 168	10					
76+48		63' Lt	CB 189	10					
79+50		23' Lt	CB 195	10					
79+60	88+40		(2)			5337			
81+50	81+90	14' Lt	Median Curb	40					
82+50	82+70	25' Lt	Median Curb	20					
83+01		26' Lt	CB 202	10					
83+01		11' Lt	CB 203	10					
85+00	85+10	30' Lt	Median Curb	10					
87+80		60' Rt	lower in place walk to flatten ped ramp			300			
88+00			(2)			495			
88+10		22' Rt	Porkchop Curb	10					
88+37		12' Lt	(1)				36	(5)	
88+50	88+79	64' - 78' Lt	(3) + 6' Walk			225			
89+00			(2)			189			
89+16	99+18		(2)			8307			
89+17		12' Lt	(1)				36	(5)	
89+36			(2)			711			
89+90		90' Lt	Construct walk to bus shelter			300			
92+80	99+20	30' Lt	Median Curb	640					
99+17		20' Lt	(1)				36	(5)	
100+07		10' Lt	(1)				36	(5)	
101+27		19' Lt	CB 211	10					
102+23		26' Lt	CB 208	10					
105+73	106+53	14' Lt	Median Curb	80					
106+52		24' Lt	(1)				36	(5)	
107+30	107+60	14' Lt	Median Curb	30					
107+35		22' Lt	(1)				36	(5)	
107+63		64' Lt	CB 229	10					
Totals:				1310	80	43674	743		

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-01-00\02-07-01\Plan\08-TAB SHEET.dwg 07/02/2002 04:00:24 PM CDT

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

PRINT NAME: ANDREW ROBERTSON

SIGNATURE: [Signature]

DATE: 07/02/02 LICENSE NO. 25066

DRAWN BY: BFL DATE: 06/27/02

DESIGN BY: MFG DATE: 06/27/02

CHECKED BY: MAD DATE: 06/27/02



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
STATE AID PROJECT NO. 02-601-42
M.S.A.P. NO. 127-020-023
COUNTY PROJECT NO. 02-07-01

TABULATION CHARTS

Sheet 8 of 27 Sheets

PROPOSED STORM SEWER CONSTRUCTION

EXISTING STRUCTURE NUMBER	STRUCTURE TYPE	LNB STATION	LOCATION	DRAINS TO STRUCTURE	TOP OF CASTING ELEVATION	DEPTH FROM TOP OF CASTING TO INVERT	INVERT ELEVATION	INPLACE GRATE, FRAME, CURB BOX	INPLACE STRUCTURE	PROPOSED CONSTRUCTION	RECONSTRUCTION HEIGHT	REMOVE CASTING	SALVAGE CASTING	(N)
														CASTING ASSEMBLY
											FEET	EACH	EACH	EACH
105	CB	20+23.	14' Lt	101		4.12		811 Grate	Precast Cone	Clean & Grout, hour	0.0			
102	CB	21+50.	25' Rt	101	821.87	7.29	814.58	816 Grate	Block, 48" Diam Structure	Reconstruct with 48 - 4020, with precast top slab	6.5	1		C
0	CB	22+00.	25' Rt	100	821.70	7.48	814.22	811 Grate - Broken	Block, 48" Diam Structure	Reconstruct with 48 - 4020, with precast top slab	6.7	1		D
106	CB	22+05.	32' Lt	105	822.17	3.89	818.28	811 Grate	Block, Design C	Reconstruct with precast Design G	3.1	1		D
126	CB	31+30.	34' Rt	125A	838.22	3.13		810 Grate, 801 Frame, 821B Curb Box	Block, Design H	Reconstruct with block	2.2	1		A
142	CB	43+13.	17' Lt	141		3.10		810 Grate, 801 Frame, 821B Curb Box	Block, Design H	Reconstruct with block	2.2	1		A
147	CB	49+09.	62' Lt	146	842.34	2.46	839.88	810 Grate, 801 Frame, 821B Curb Box	Block, Design H	Reconstruct with block	1.4	1		A
148	CB	50+56.	64' Lt			1.32		810 Grate, 801 Frame, 821B Curb Box	Block, Design H	Reconstruct with block	0.8	1		A
149	CB	52+38.	23' Rt	146		4.53		810 Grate, 801 Frame, 821B Curb Box	Precast Cone	Clean & Grout, hour	0.0			
151	CB	53+47.	22' Rt	150		4.17		810 Grate, 801 Frame, 821B Curb Box	Precast Cone	Clean Pipe, hour	0.0			
154	MH	59+55.	18' Rt	153	843.66	3.00	840.66	712 Cover with 700 Frame	Block, Design C	Clean & Grout, hour	0.0			
155	CB	59+55.	24' Rt	154		2.62		810 Grate, 801 Frame, 821B Curb Box	Block, Design H	Clean & Grout, hour	0.0			
157	CB	59+55.	24' Lt	154	843.29	2.80	840.49	1.5' x 2.0' rectangle casting, 7"	2.0' x 1.5' Rectangle Block	Reconstruct with block	2.2		1	E
158	CB	59+55.	30' Lt	157	843.62	1.93	841.69	810 Grate, 801 Frame, 821B Curb Box	Block, Design H	Clean & Grout, hour	0.0			
159	CB	59+55.	63' Lt	158		2.69		810 Grate, 801 Frame, 821B Curb Box	Block, Design H	Clean & Grout, hour	0.0			
160	CB	61+45.	13' Rt	159		3.15		810 Grate, 801 Frame, 821B Curb Box	Block, Design C	Clean & Grout, hour	0.0			
182	CB	69+02.	25' Lt	181	839.46	3.26	836.20	810 Grate, 801 Frame, 821B Curb Box	Block, Design C	Clean & Grout, hour	0.0			
183	CB	69+02.	30' Lt	182	839.19	3.20	835.99	810 Grate, 801 Frame, 821B Curb Box	48" Diam. Block with 6" top slab	Clean & Grout, hour	0.0			
184	CB	69+06.	64' Lt					810 Grate, 801 Frame, 821B Curb Box	Block, Design H	Clean & Grout, hour Clean Pipe, hour	0.0			
178	CB	73+80.	28' Lt	175	835.23	2.24	832.99	810 Grate, 801 Frame, 821B Curb Box	Block, Design H	Reconstruct with block	1.3	1		A
177	CB	74+11.	62' Lt	176	835.17	2.64	832.53	810 Grate, 801 Frame, 821B Curb Box	Block, Design H	Reconstruct with block	1.7	1		A
172	MH	74+13.	13' Rt	170	835.63	3.90	831.73	12 Cover with 700 Frame, cracked cover	48" Diam. Block with 6" top slab	Reconstruct with block	3.3	1		B
175	CB	74+13.	23' Lt	172	835.16	2.81	832.35	810 Grate, 801 Frame, 821B Curb Box	Block, Design C	Reconstruct with block	1.9	1		A
176	CB	74+14.	62' Lt	175	835.17	2.74	832.43	810 Grate, 801 Frame, 821B Curb Box	Block, Design C	Reconstruct with block	1.8	1		A
192	CB	75+59.	86' Lt	191		2.28		3.0' x 1.5' Rectangle Casting	1.5' x 3.0' Rectangle Block	Clean & Grout, hour	0.0			
167	MH	75+68.	12' Rt	164	836.51	4.87		712 cover with 700 frame	48" Diam. Block with 6" top slab	Clean & Grout, hour	0.0			
168	CB	75+71.	20' Lt	167	835.48	3.20	832.28	810 Grate, 801 Frame, 821B Curb Box	Block, Design C	Reconstruct with block	2.3	1		A
169	CB	75+71.	30' Lt	168		3.22		810 Grate, 801 Frame, 821B Curb Box	Precast, Design H	Clean & Grout, hour	0.0			
188	MH	76+48.	66' Lt	187	835.45	3.49	831.96	712 cover with 700 frame	Block, Design C	Clean & Grout, hour	0.0			
189	CB	76+48.	63' Lt	188	834.73	2.31	832.42	3.0' x 1.5' Rectangle Casting	1.5' x 3.0' Rectangle Block	Reconstruct with block	1.8		1	E
187	CB	77+94.	61' Lt	186	834.87	3.43	831.44	810 Grate, 801 Frame, 821B Curb Box	Block, Design C	Clean & Grout, hour	0.0			
202	CB	83+01.	26' Lt	201	837.66	3.72	833.94	810 Grate, 801 Frame, 821B Curb Box	Block, Design C	Reconstruct with block	2.8	1		A
203	CB	83+01.	11' Lt	202	838.10	3.72	834.38	810 Grate, 801 Frame, 821B Curb Box	Block, Design C	Reconstruct with block	2.8	1		A
211	CB	101+27.	19' Lt					810 Grate, 801 Frame, 821B Curb Box	Precast, Design F	Replace rings with 6" adjusting ring and 2" rings	1.0	1		A
208	CB	102+23.	25' Lt					810 Grate, 801 Frame, 821B Curb Box	Precast, Design F	Replace rings with 6" adjusting ring and 2" rings	1.0	1		A
226	CB	105+90.	25' Lt					810 Grate, 801 Frame, 821B Curb Box	48" Diam. Block with 6" top slab	Replace top row of blocks and adjusting rings	1.7	1		A
228	CB	107+39.	25' Lt					810 Grate, 801 Frame, 821B Curb Box	Precast, Design F	Replace top rows of blocks and adjusting rings	1.5	1		A
229	CB	107+63.	64' Lt					810 Grate, 801 Frame, 821B Curb Box	Precast, Design G	Replace top rows of blocks and adjusting rings	1.5	1		A
Totals:											51.5	20	2	22

NO	DATE	BY	CKD	APPR	REVISION
NAME: P:\02-01-00\02-07-01\Plan\09-TAB SHEET.dwg 07/02/2002 04:04:02 PM CDT					

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

PRINT NAME: ANDREW ROBERT

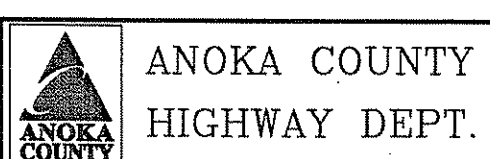
SIGNATURE: [Signature]

DATE: 07/02/02 LICENSE NO. 25066

DRAWN BY: BFL DATE 06/27/02

DESIGN BY: MFG DATE 06/27/02

CHECKED BY: MAD DATE 06/27/02



STATE PROJECT NO. _____

STATE AID PROJECT NO. 02-601-42

M.S.A.P. NO. 127-020-023

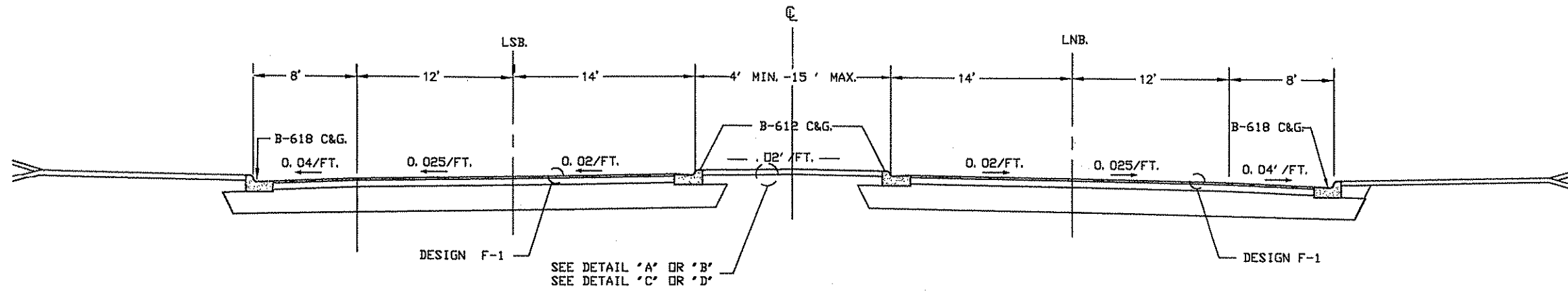
COUNTY PROJECT NO. 02-07-01

TABULATION CHARTS

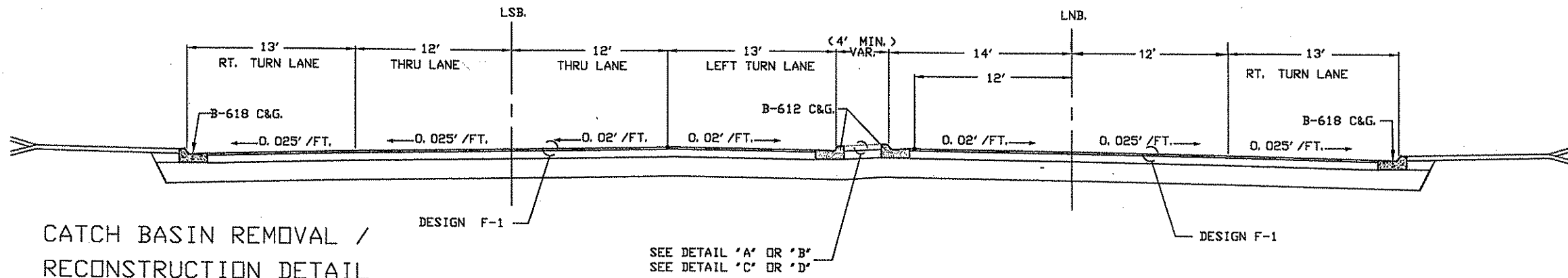
Sheet 9 of 27 Sheets

EAST RIVER ROAD (C. S. A. H. NO. 1)

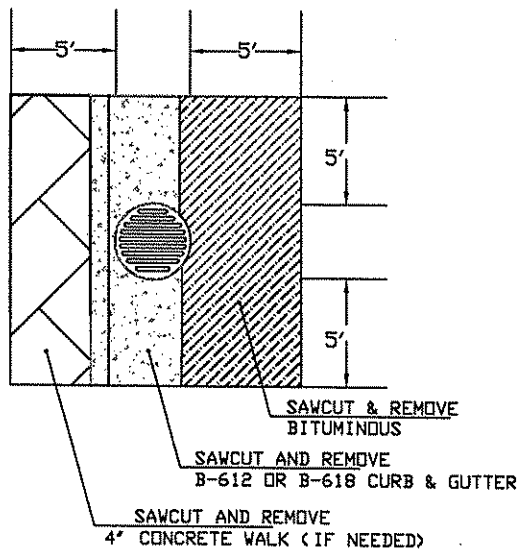
(STA. 20+00 TO STA. 108+15)



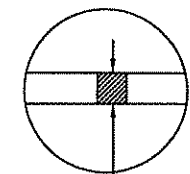
EAST RIVER ROAD (C. S. A. H. 1) - TURN LANES



CATCH BASIN REMOVAL / RECONSTRUCTION DETAIL



DESIGN F-1
(CSAH. 1) 2" MILL AND OVERLAY



2" HV 4 WEARING COURSE MIXTURE

1	5/31/02	BFL		UPDATE STATIONING ON TYPICAL SECTION
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 LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: LYNDON ROBERT
 SIGNATURE: *[Signature]*
 DATE: 07/02/02 LICENSE NO. 25066

DRAWN BY: BFL DATE 05/30/02
 DESIGN BY: MFG DATE 05/30/02
 CHECKED BY: LAR DATE 05/30/02



ANOKA COUNTY
HIGHWAY DEPT.

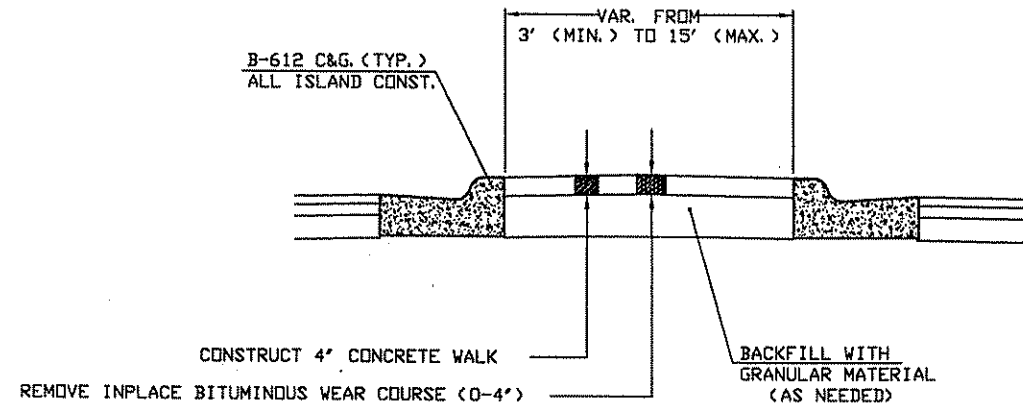
STATE PROJECT NO. _____
 STATE AID PROJECT NO. 02-601-42
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. _____

TYPICAL SECTIONS

Sheet 10 of 27 Sheets

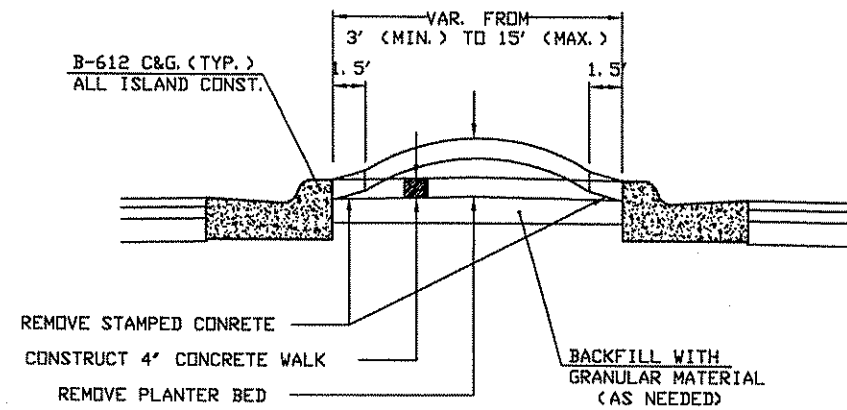
DETAIL "A"

STA. 40+34 TO STA. 52+49
 STA. 79+69 TO STA. 88+38
 STA. 88+00 TO STA. 88+31 (PORKCHOP RT)
 STA. 89+02 TO STA. 89+40 (MEDIAN MISS. WAY LT)
 STA. 89+37 TO STA. 89+76 (PORKCHOP LT)



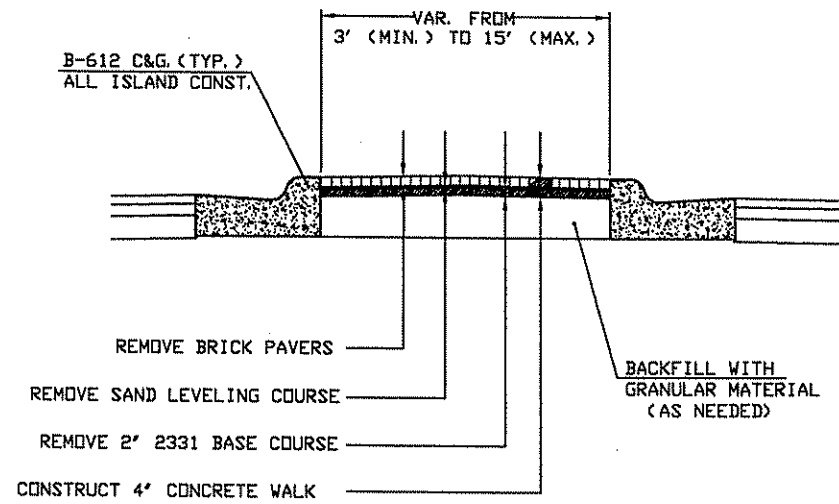
DETAIL "B"

STA. 53+45 TO STA. 57+39
 STA. 66+30 TO STA. 67+68
 STA. 69+72 TO STA. 71+11
 STA. 75+64 TO STA. 79+65



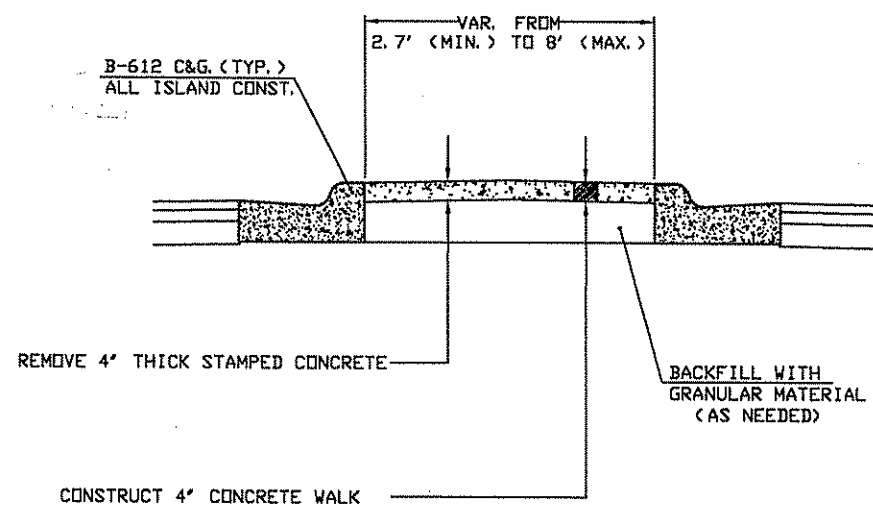
DETAIL "C"

STA. 89+16 TO STA. 99+18



DETAIL "D"

STA. 57+39 TO STA. 60+90
 STA. 61+80 TO STA. 65+64
 STA. 67+68 TO STA. 69+08
 STA. 71+76 TO STA. 74+93



I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: RANDON ROBERT
 SIGNATURE: *[Signature]*
 DATE: 07/02/02 LICENSE NO. 25066

DRAWN BY: BEL DATE 05/30/02
 DESIGN BY: MEG DATE 05/30/02
 CHECKED BY: LAR DATE 05/30/02



ANOKA COUNTY
 HIGHWAY DEPT.

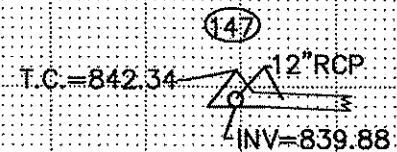
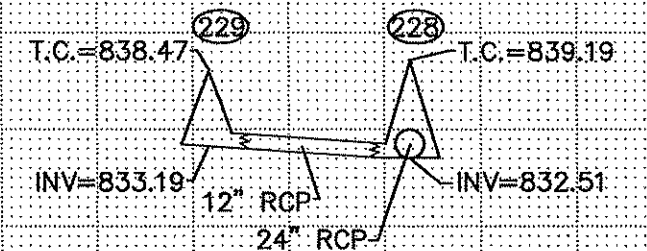
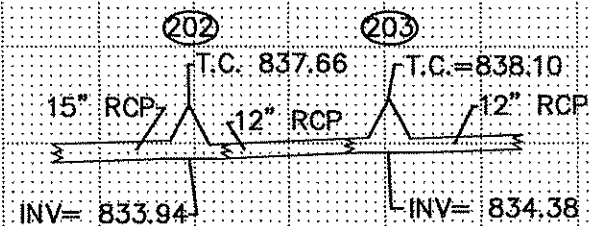
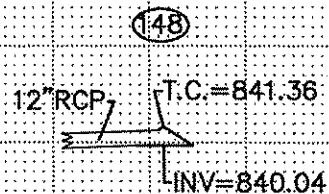
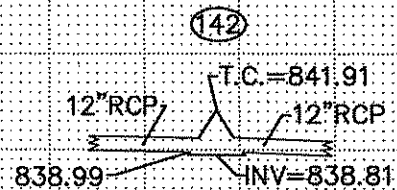
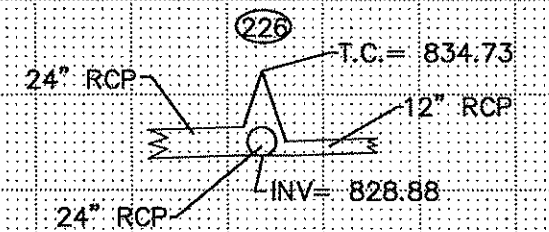
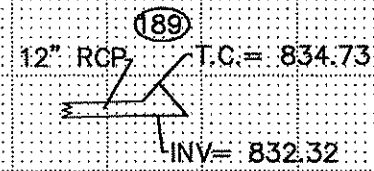
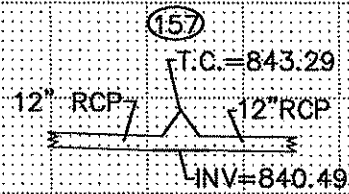
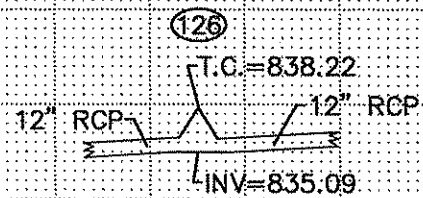
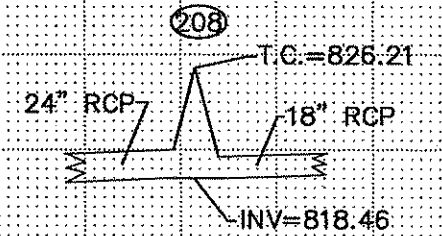
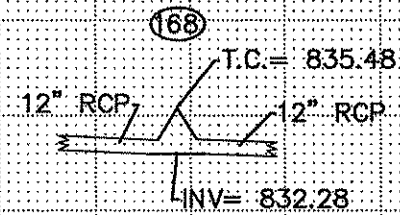
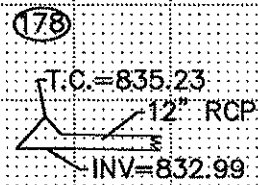
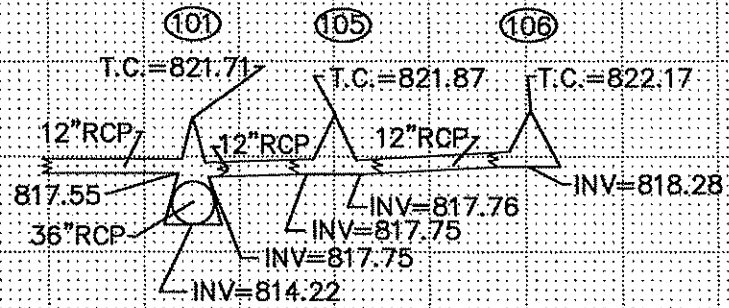
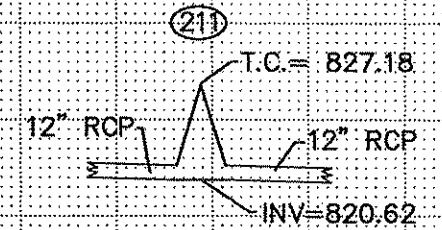
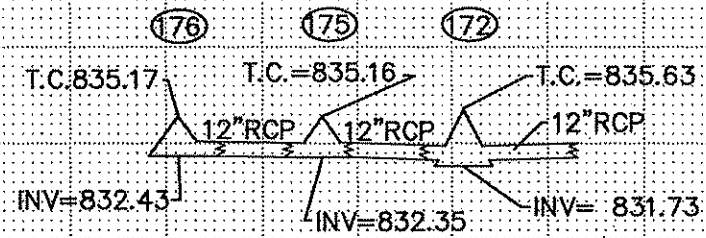
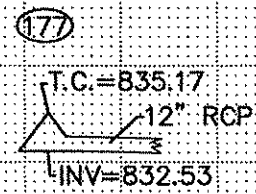
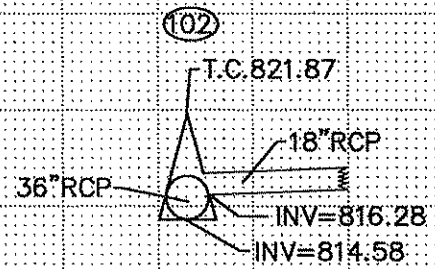
STATE PROJECT NO. _____
 STATE AID PROJECT NO. 02-601-42
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. _____

TYPICAL SECTIONS

Sheet 11 of 27 Sheets

NO	DATE	BY	CHKD	APPR	REVISION

NAME: S:\SDSKPROJ\000000\000000\025000.DWG



NO	DATE	BY	CKD	APPR	REVISION
NAME: P:\02-01-00\02-07-01\Plan\STORM-LEADS-1.dwg 07/02/2002 04:36:27 PM CDT					

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: ANTON ROBERT
 SIGNATURE: *Anton Robert*
 DATE: 07/02/02 LICENSE NO. 25066

DRAWN BY: BFL DATE: 07/02/02
 DESIGN BY: MFG DATE: 07/02/02
 CHECKED BY: LAR DATE: 07/02/02



ANOKA COUNTY
 HIGHWAY DEPT.


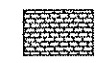



STATE PROJECT NO. _____
 STATE AID PROJECT NO. 02-601-42
 M.S.A.P. NO. 127-020-023
 COUNTY PROJECT NO. 02-07-01

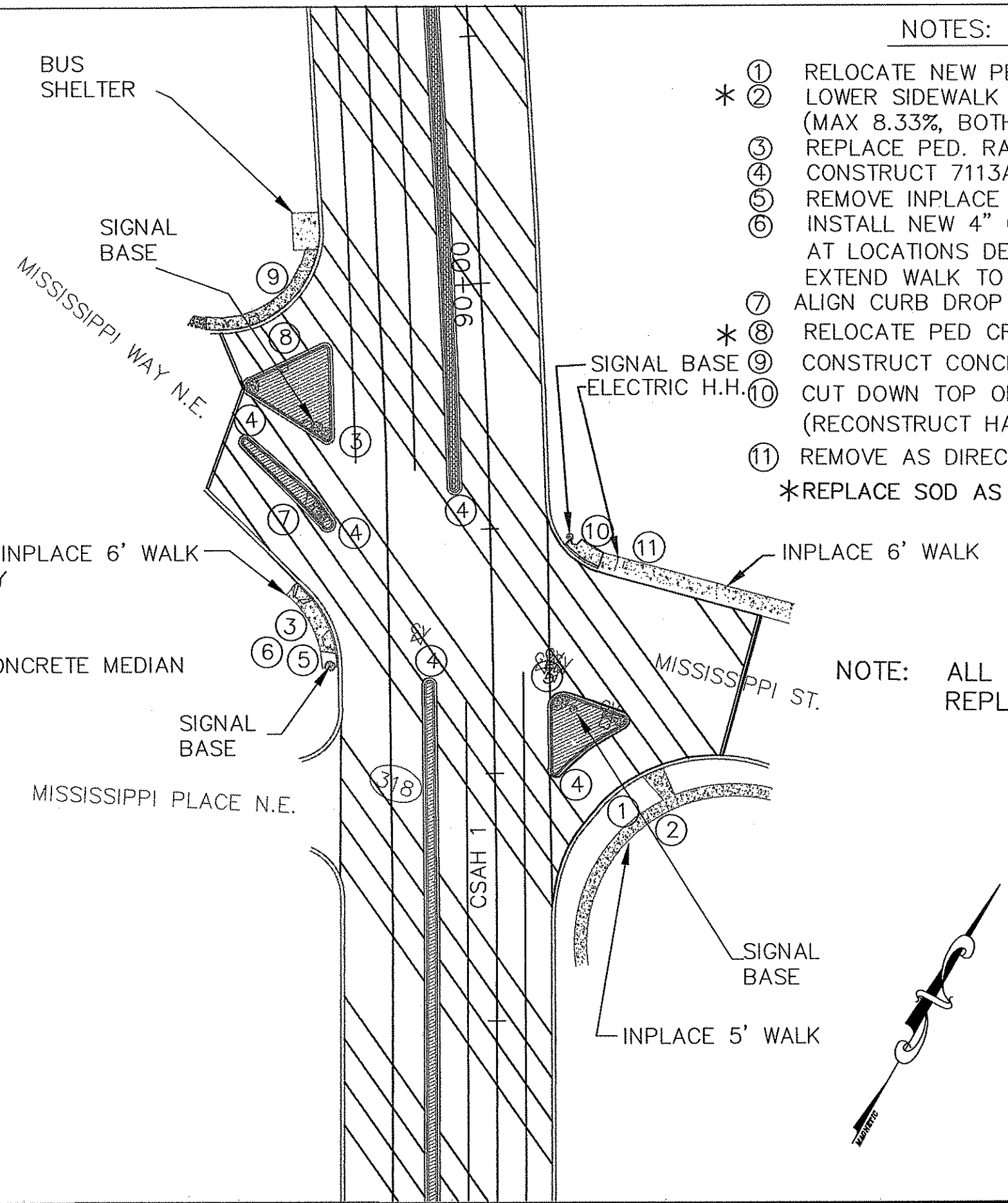
STORM SEWER
 LEADS
 Sheet 12 of 27 Sheets

CONSTRUCTION AT CSAH 1 AND MISSISSIPPI STREET

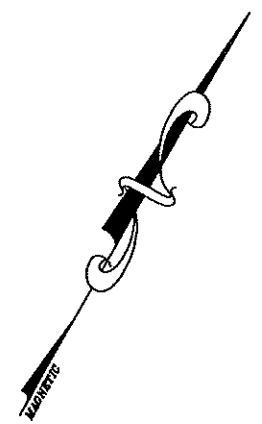
NOTES:

- ① RELOCATE NEW PED CROSSING & SIDEWALK TO MIDPOINT.
- * ② LOWER SIDEWALK TO FLATTEN GRADE (MAX 8.33%, BOTH WALK & PED RAMP)
- ③ REPLACE PED. RAMPS
- ④ CONSTRUCT 7113A CONCRETE NOSE
- ⑤ REMOVE INPLACE CONCRETE WALK
- ⑥ INSTALL NEW 4" CONCRETE WALK WITH PED RAMP AT LOCATIONS DETERMINED BY THE ENGINEER, EXTEND WALK TO SIGNAL PUSH BUTTON.
- ⑦ ALIGN CURB DROP WITH PED CROSSING.
- * ⑧ RELOCATE PED CROSSING TO MIDPOINT.
- ⑨ CONSTRUCT CONCRETE SIDEWALK TO BUS SHELTER.
- ⑩ CUT DOWN TOP OF INPLACE HANDHOLE. (RECONSTRUCT HANDHOLE)
- ⑪ REMOVE AS DIRECTED INPLACE SIDEWALK AND FLATTEN S
- *REPLACE SOD AS NEEDED


-  2" BITUMINOUS MILL & OVERLAY
-  BRICK PAVERS OR STAMPED CONCRETE MEDIAN
-  BITUMINOUS MEDIAN
-  PLANTER BED MEDIAN
-  CONCRETE BUS PAD

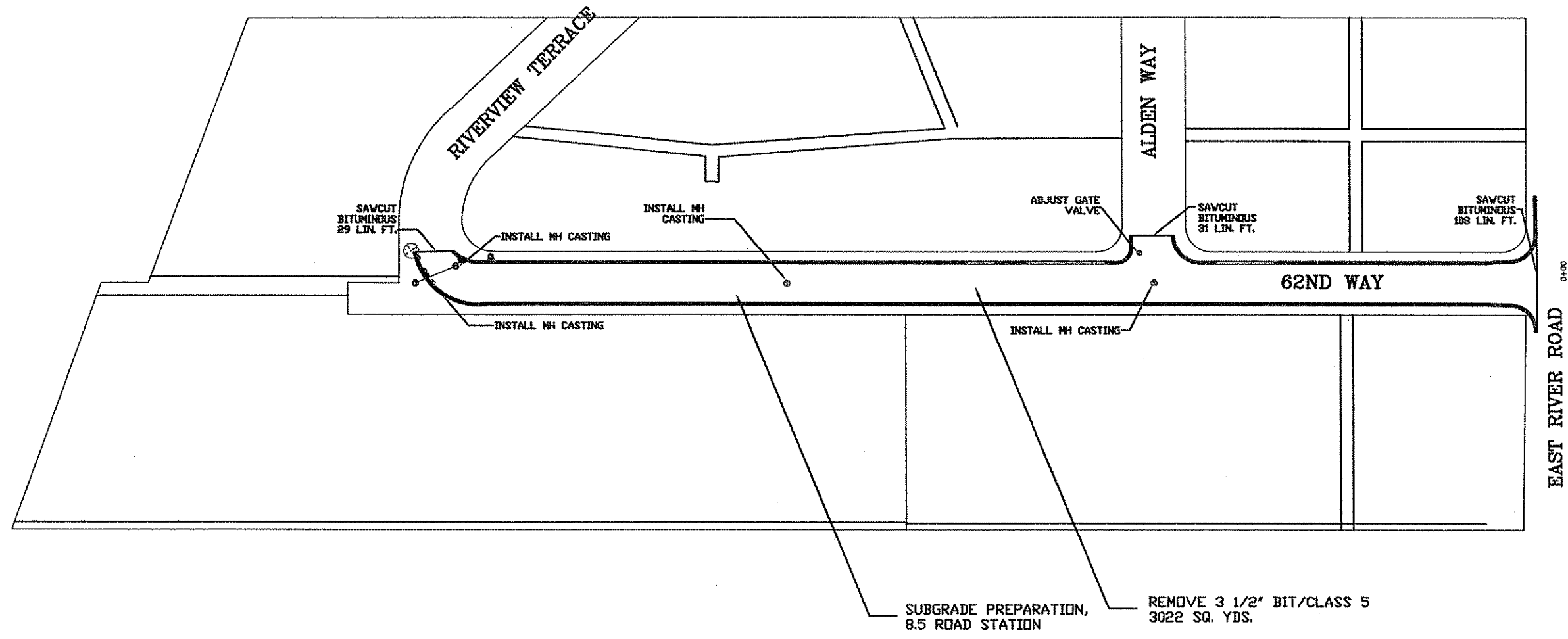


NOTE: ALL MEDIAN SHALL BE REPLACED WITH 4" CONCRETE



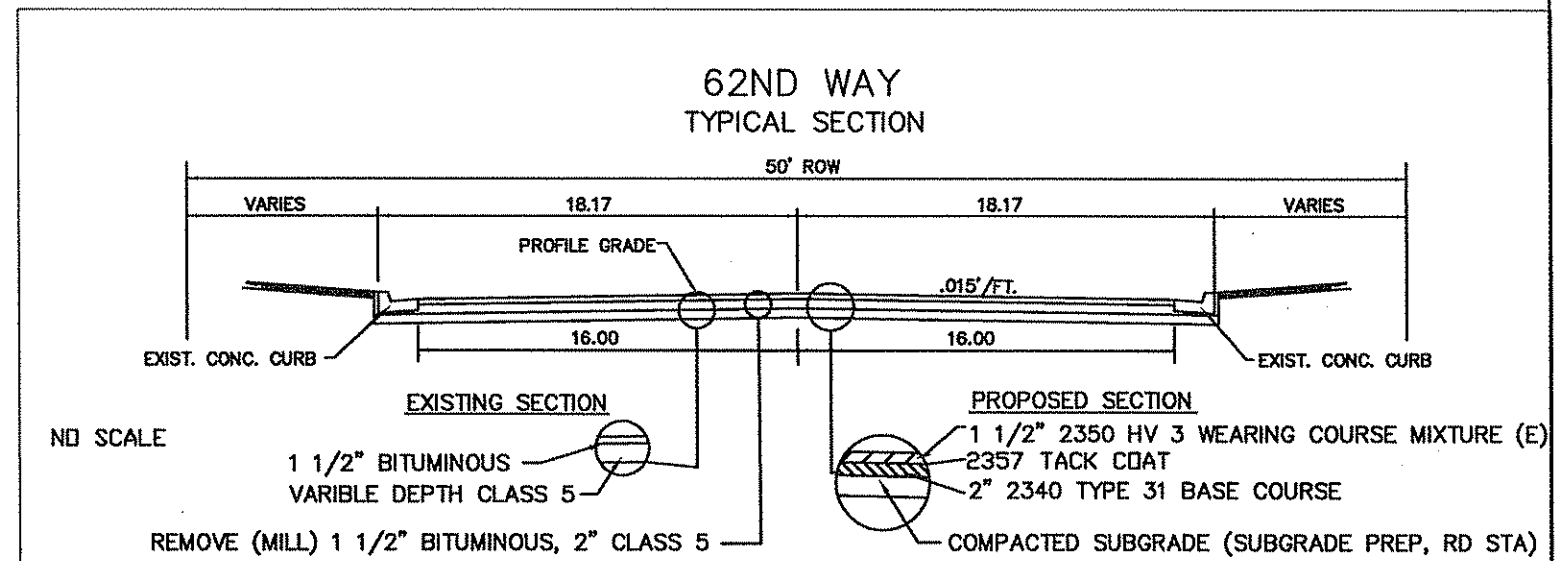
SCALE 1" = 50'

1	5/31/02	BFL		MILL HATCHING ON MISS. ST. & MISS WAY WAS UNTHAWED	I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINT NAME: <u>WILSON ROBERTS</u> SIGNATURE: <u>[Signature]</u> DATE: <u>07/02/02</u> LICENSE NO. <u>25066</u>	DRAWN BY: <u>BEI</u> DATE <u>06/24/02</u> DESIGN BY: <u>MEG</u> DATE <u>05/29/02</u> CHECKED BY: <u>LAR</u> DATE <u>05/29/02</u>	 ANOKA COUNTY HIGHWAY DEPT.	STATE PROJECT NO. _____ STATE AID PROJECT NO. <u>02-601-42</u> STATE AID PROJECT NO. _____ COUNTY PROJECT NO. _____	MISSISSIPPI STREET DETAIL STA. 86+00 TO 91+00 Sheet <u>13</u> of <u>27</u> Sheets
NO	DATE	BY	CKD	APPR		REVISION			



NOTES:

- (1) NEW MANHOLE CASTINGS FOR THE FOUR MANHOLES ON THE PROJECT TO BE FURNISHED BY THE CITY OF FRIDLEY.
- (2) BITUMINOUS BASE COURSE TO BE PLACED WITHIN 48 HOURS FROM TIME OF THE REMOVAL OF THE INPLACE BITUMINOUS



NO	DATE	BY	CHKD	APPR	REVISION

NAME: P:\02-01-00\02-07-01\Base\62nd-Way.dwg 07/03/02 08:13:08 AM CDT

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.

PRINT NAME: ANDREW R. ROBERTS

SIGNATURE: *[Signature]*

DATE: 07/02/02 REG. NO. 25066

DRAWN BY: BEI DATE 05/29/02

DESIGN BY: MEG DATE 05/29/02

CHECKED BY: LAR DATE 05/29/02

ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____

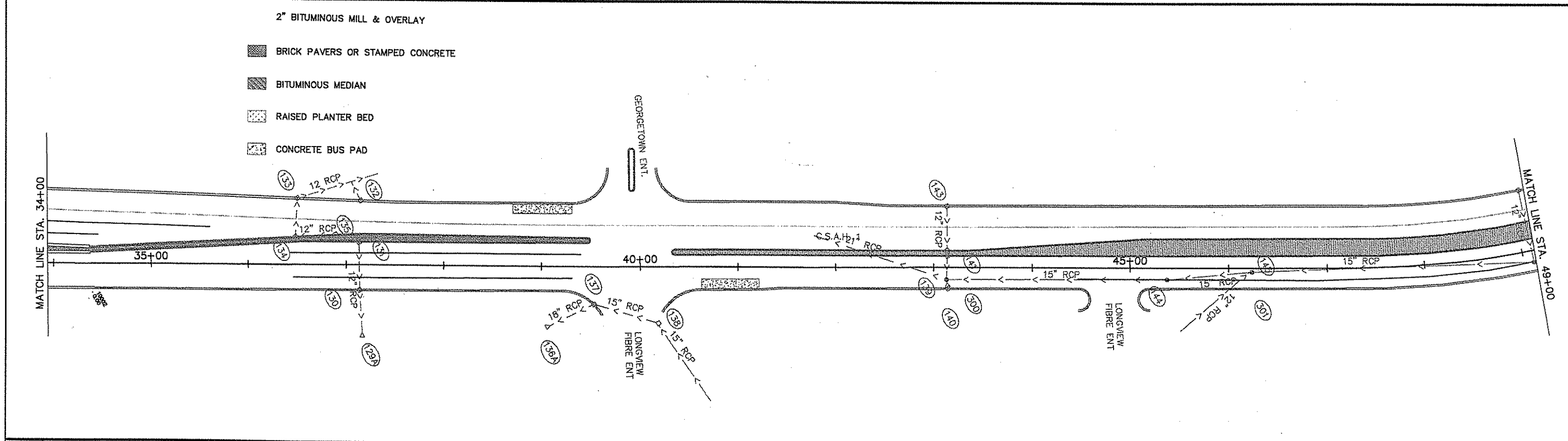
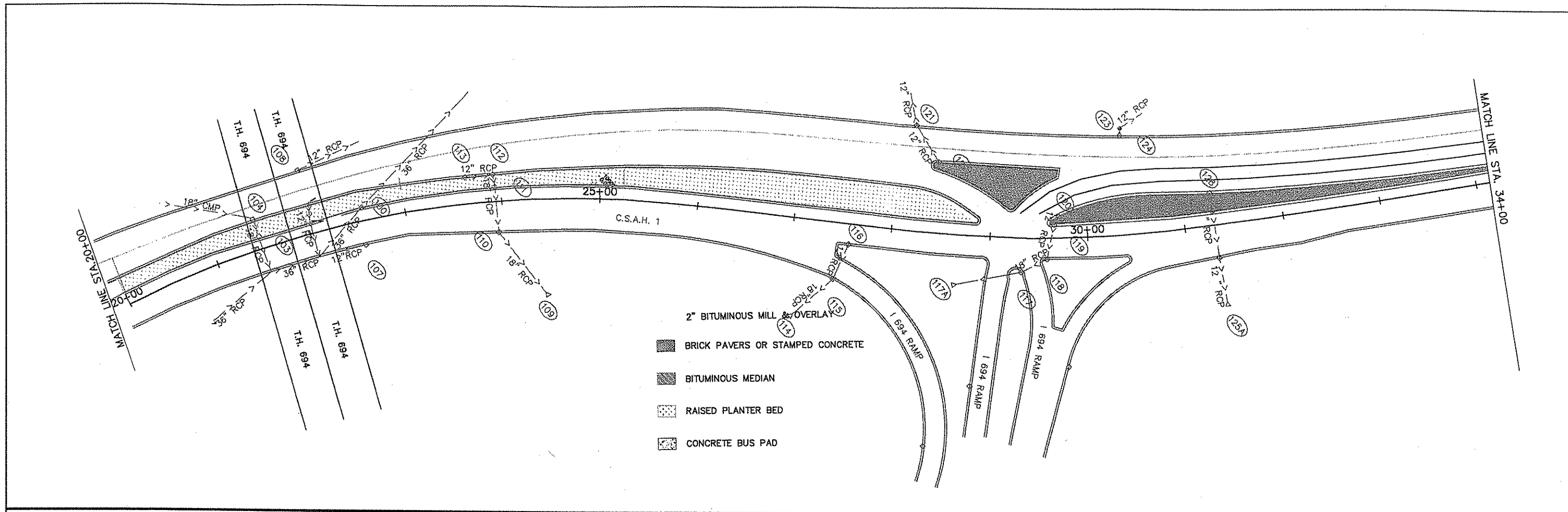
STATE AID PROJECT NO. 02-601-42

M.S.A.P. NO. 127-020-023

COUNTY PROJECT NO. 02-07-01

62ND WAY
DETAIL

Sheet 14 of 20 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 LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: LYNN ROBERT

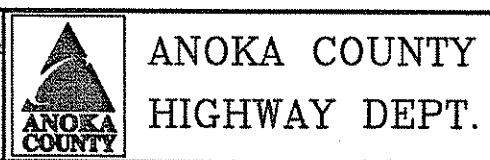
SIGNATURE: [Signature]

DATE: 07/02/02 LICENSE NO. 25066

DRAWN BY: REL DATE: 05/30/02

DESIGN BY: MEG DATE: 05/30/02

CHECKED BY: LAR DATE: 05/30/02



STATE PROJECT NO. _____

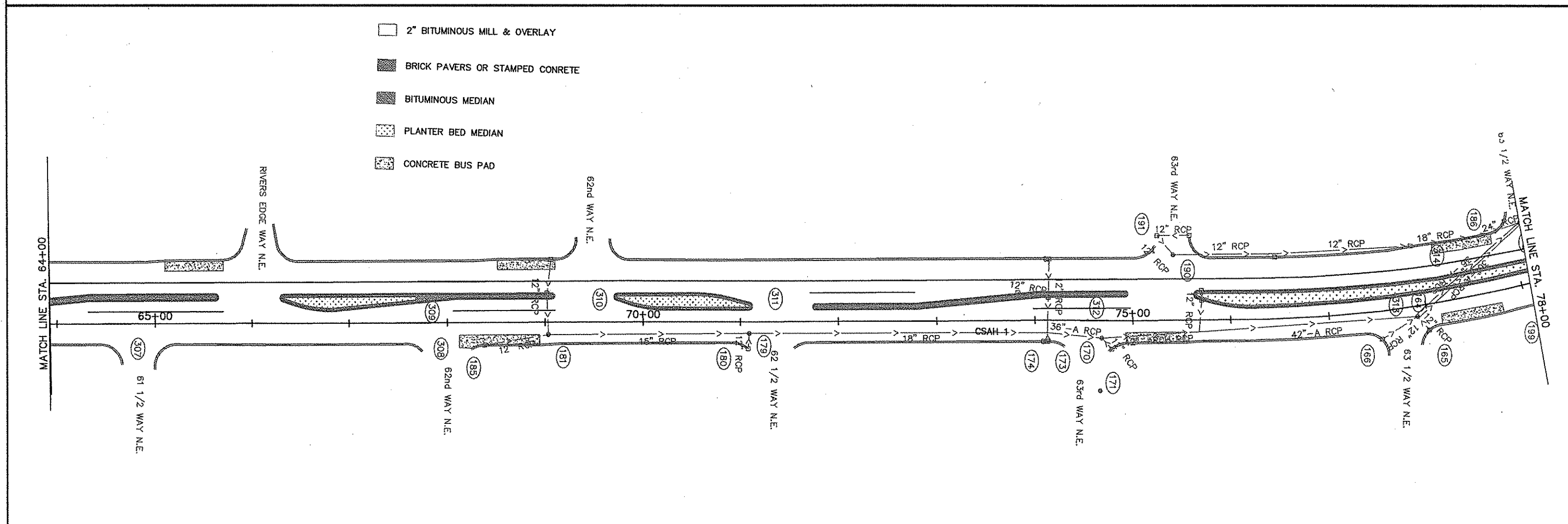
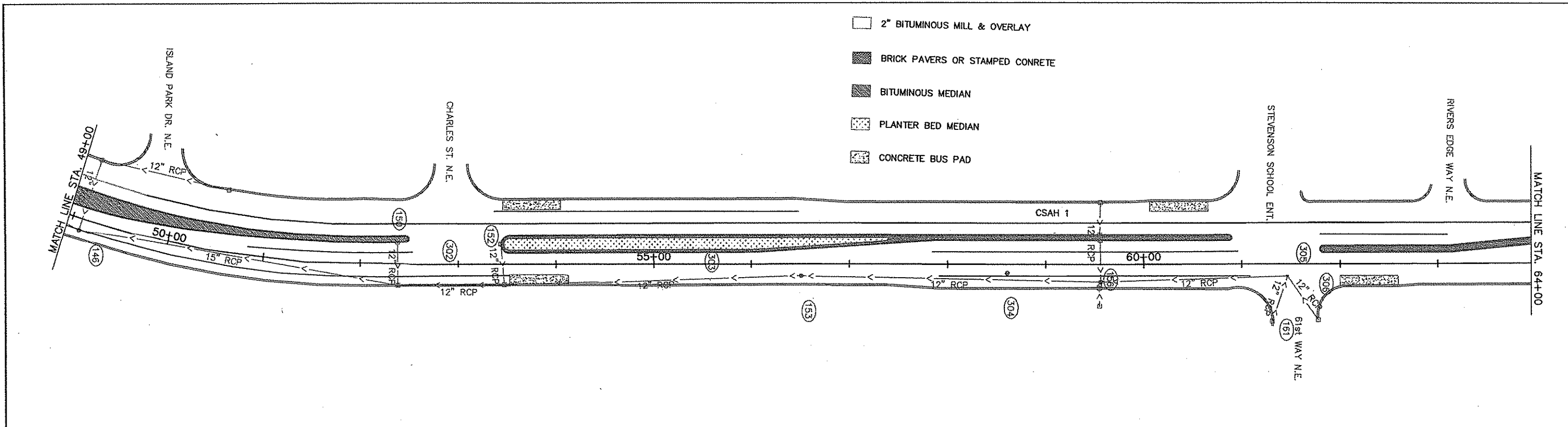
STATE AID PROJECT NO. 02-601-42

STATE AID PROJECT NO. 127-020-023

COUNTY PROJECT NO. 02-07-01

EXISTING CONDITIONS AND REMOVAL PLAN STA. 20+00 TO 49+00

Sheet 15 of 20 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 LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: DAVIDSON ROBERT

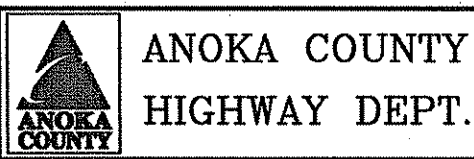
SIGNATURE: [Signature]

DATE: 07/02/02 LICENSE NO. 25066

DRAWN BY: BEI DATE 07/02/02

DESIGN BY: MEG DATE 07/02/02

CHECKED BY: LAR DATE 07/02/02



STATE PROJECT NO. _____

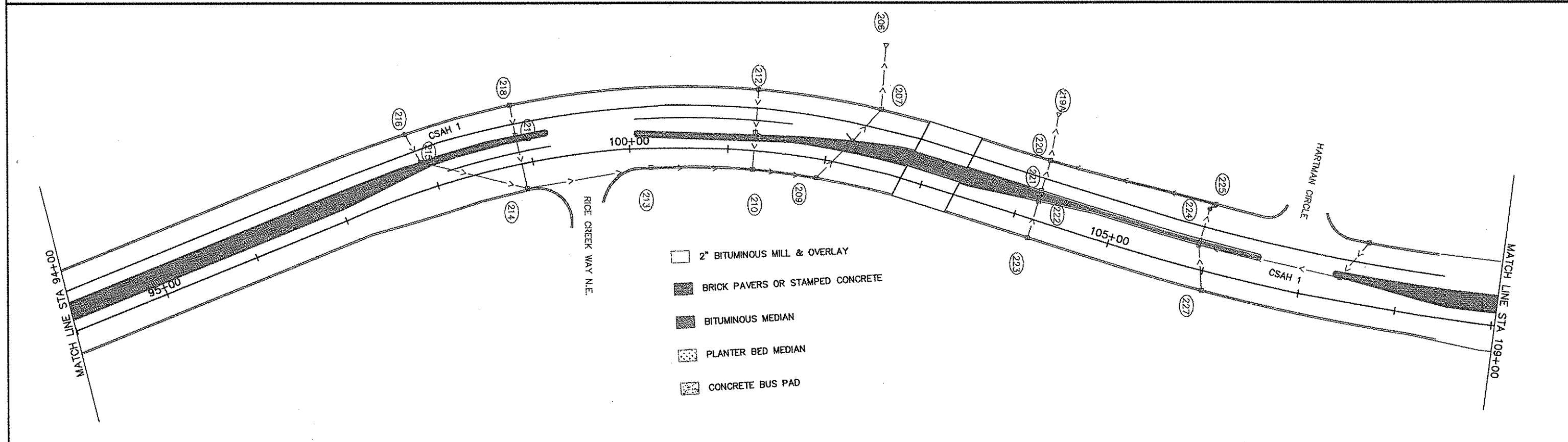
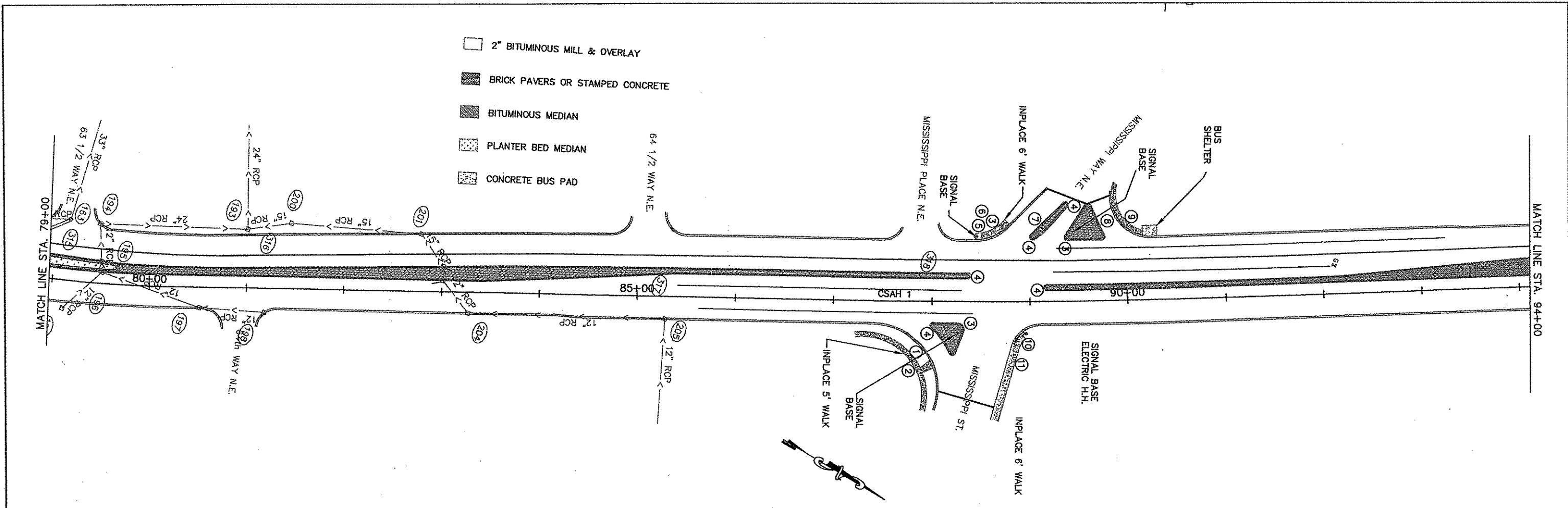
STATE AID PROJECT NO. 02-601-42

STATE AID PROJECT NO. 127-020-023

COUNTY PROJECT NO. 02-07-01

EXISTING CONDITIONS AND REMOVAL PLAN STA. 49+00 TO 79+00

Sheet 16 of 20 Sheets



- 2" BITUMINOUS MILL & OVERLAY
- BRICK PAVERS OR STAMPED CONCRETE
- BITUMINOUS MEDIAN
- PLANTER BED MEDIAN
- CONCRETE BUS PAD

- 2" BITUMINOUS MILL & OVERLAY
- BRICK PAVERS OR STAMPED CONCRETE
- BITUMINOUS MEDIAN
- PLANTER BED MEDIAN
- CONCRETE BUS PAD

1	05/31/02	BFL		MILL HATCHING ON MISS. ST. & MISS. WAY WAS UNTHAWED	
2	06/05/02	BFL		EXTENDED MILL AND BITUMINOUS AREA'S EAST ON MISSISSIPPI 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 LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: DAVID ROBERTSON

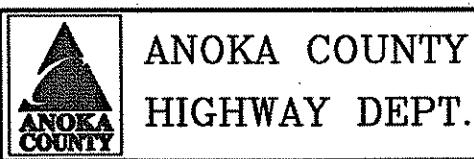
SIGNATURE:

DATE: 07/02/02 LICENSE NO. 25066

DRAWN BY: BEJ DATE 07/02/02

DESIGN BY: MEG DATE 07/02/02

CHECKED BY: LAR DATE 07/02/02



STATE PROJECT NO. _____

STATE AID PROJECT NO. 02-601-42

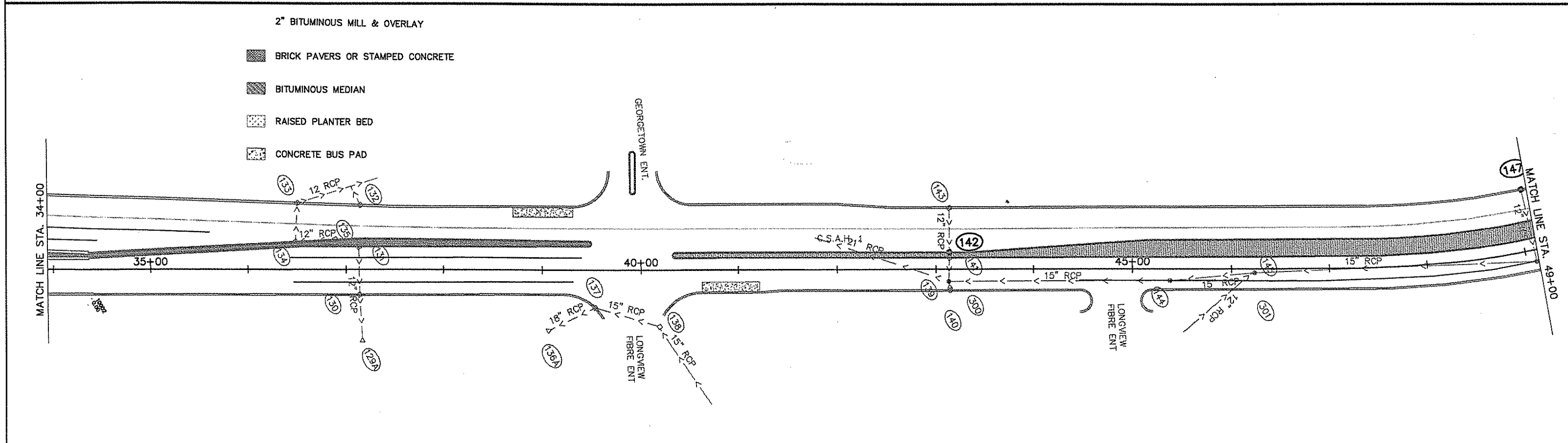
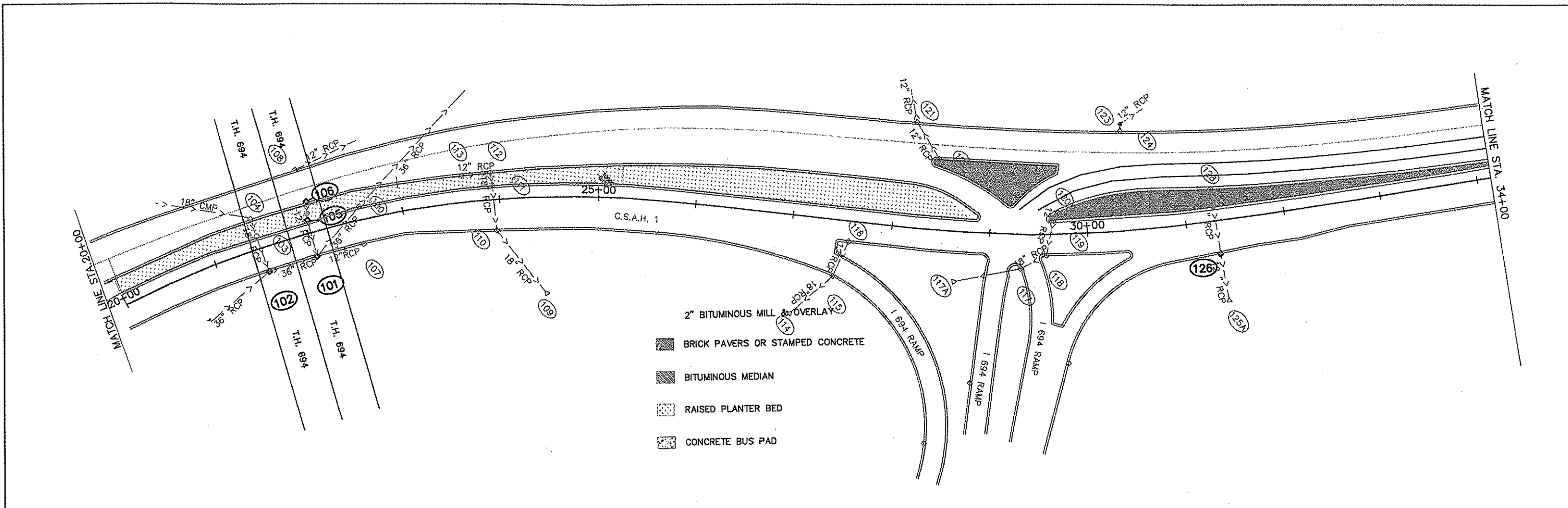
STATE AID PROJECT NO. 127-020-023

COUNTY PROJECT NO. 02-07-01

EXISTING CONDITIONS AND REMOVAL PLAN

STA. 79+00 TO 109+00

Sheet 17 of 27 Sheets

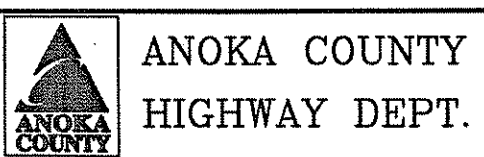


NO	DATE	BY	CHKD	APPR	REVISION
1	7/23/02	MG	MD		ADDED LABELS TO STORM SEWER STRUCTURES

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

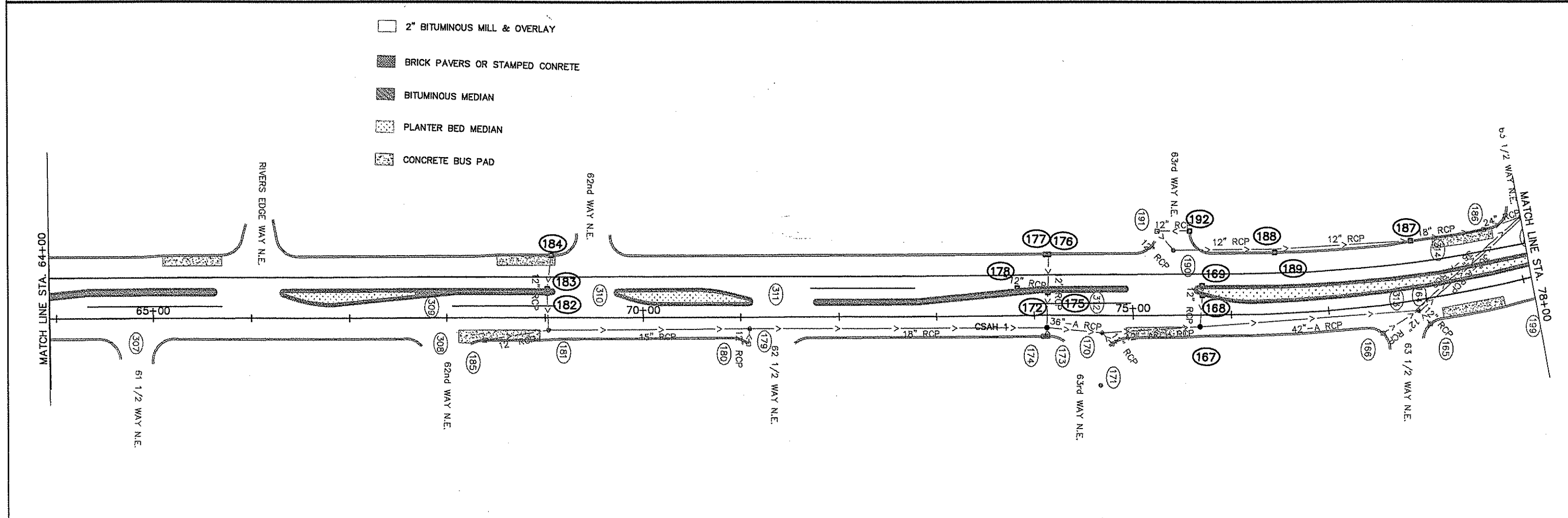
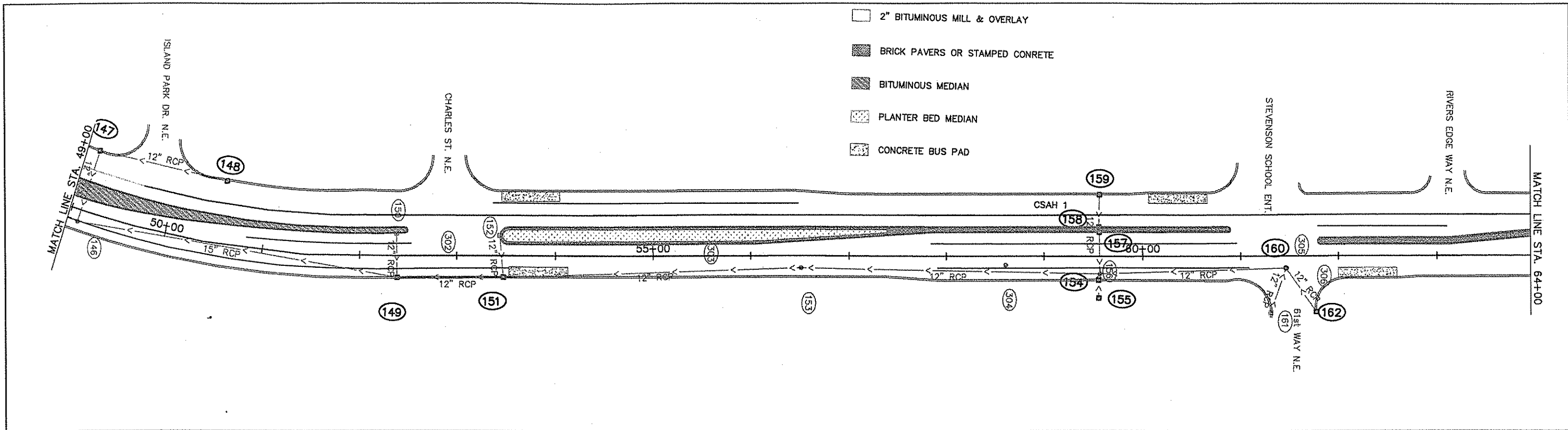
PRINT NAME: ANDREW ROBERT
 SIGNATURE: [Signature]
 DATE: 07/02/02 LICENSE NO. 25066

DRAWN BY: BEI DATE 07/02/02
 DESIGN BY: MEG DATE 07/02/02
 CHECKED BY: LAR DATE 07/02/02



STATE PROJECT NO. _____
 STATE AID PROJECT NO. 02-601-42
 M.S.A.P. NO. 127-020-023
 COUNTY PROJECT NO. 02-07-01

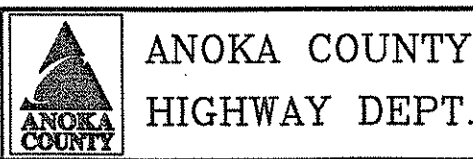
STORM SEWER PLAN
 STA. 20+00 TO 49+00
 Sheet 18 of 27 Sheets



NO	DATE	BY	CHKD	APPR	REVISION
1	7/23/02	MG	MD		ADDED LABELS TO STORM SEWER STRUCTURES

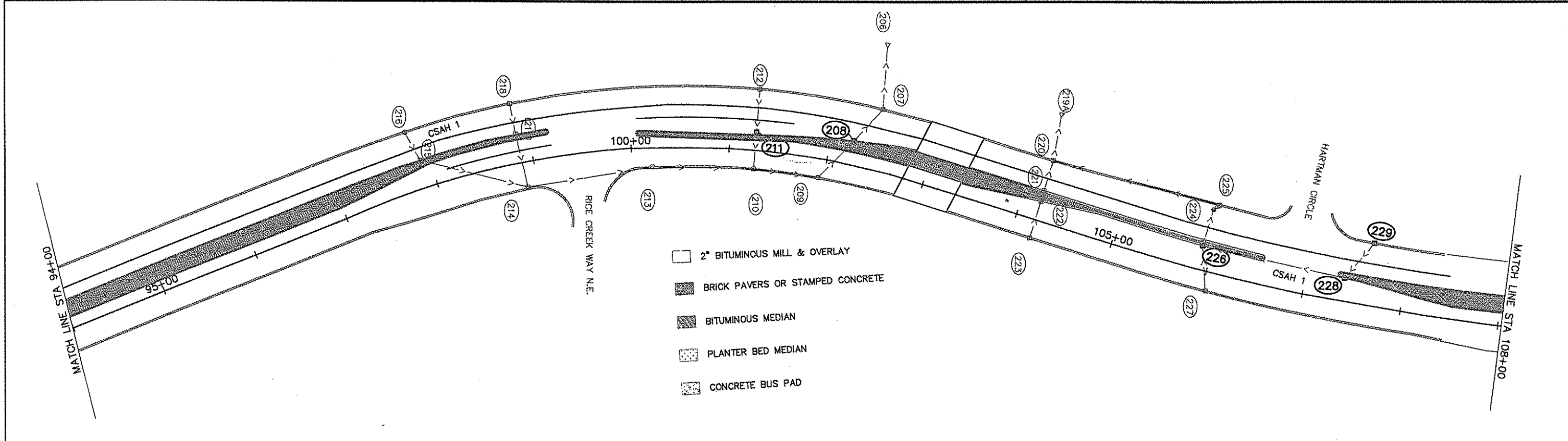
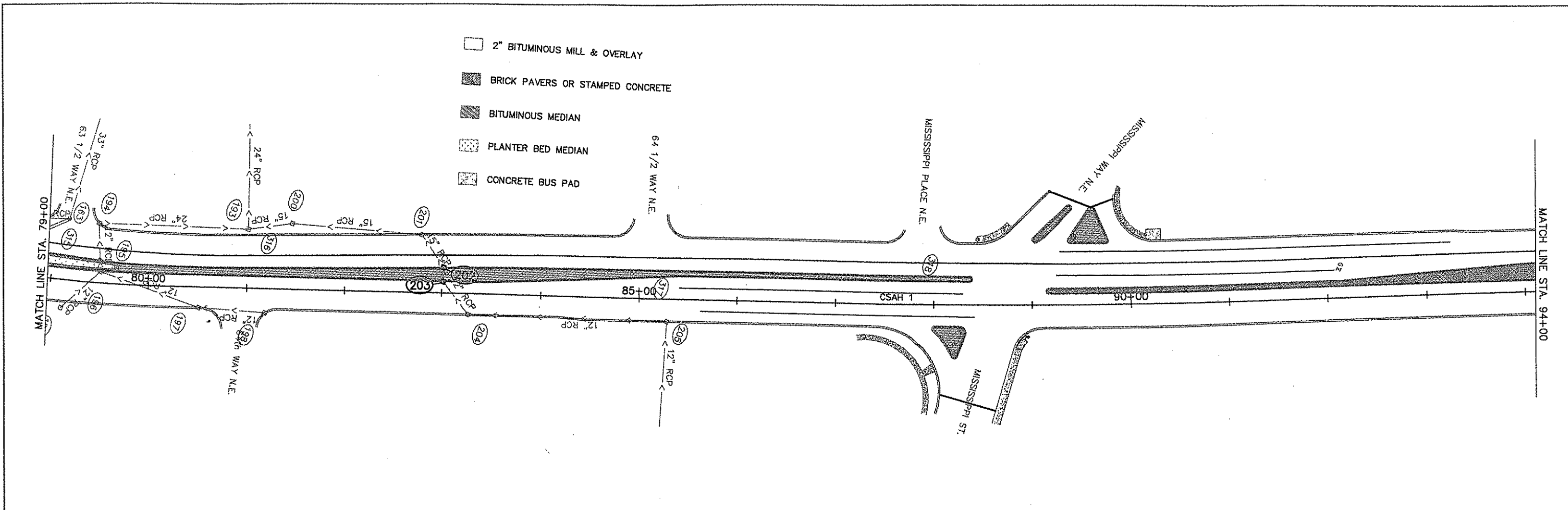
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: LYNN M. CRICKER
 SIGNATURE: *[Signature]*
 DATE: 07/02/02 LICENSE NO. 25066

DRAWN BY: BEI DATE 07/02/02
 DESIGN BY: WEG DATE 07/02/02
 CHECKED BY: LAR DATE 07/02/02



STATE PROJECT NO. _____
 STATE AID PROJECT NO. 02-601-42
 STATE AID PROJECT NO. 127-020-023
 COUNTY PROJECT NO. 02-07-01

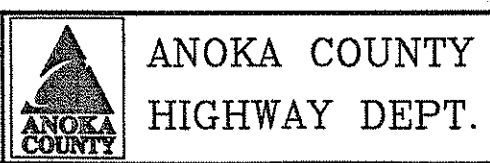
STORM SEWER PLAN
 STA. 49+00 TO 79+00
 Sheet 19 of 27 Sheets



NO	DATE	BY	CHKD	APPR	REVISION
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NAME: S:\S330PROJ\000000\000000\025066.DWG					

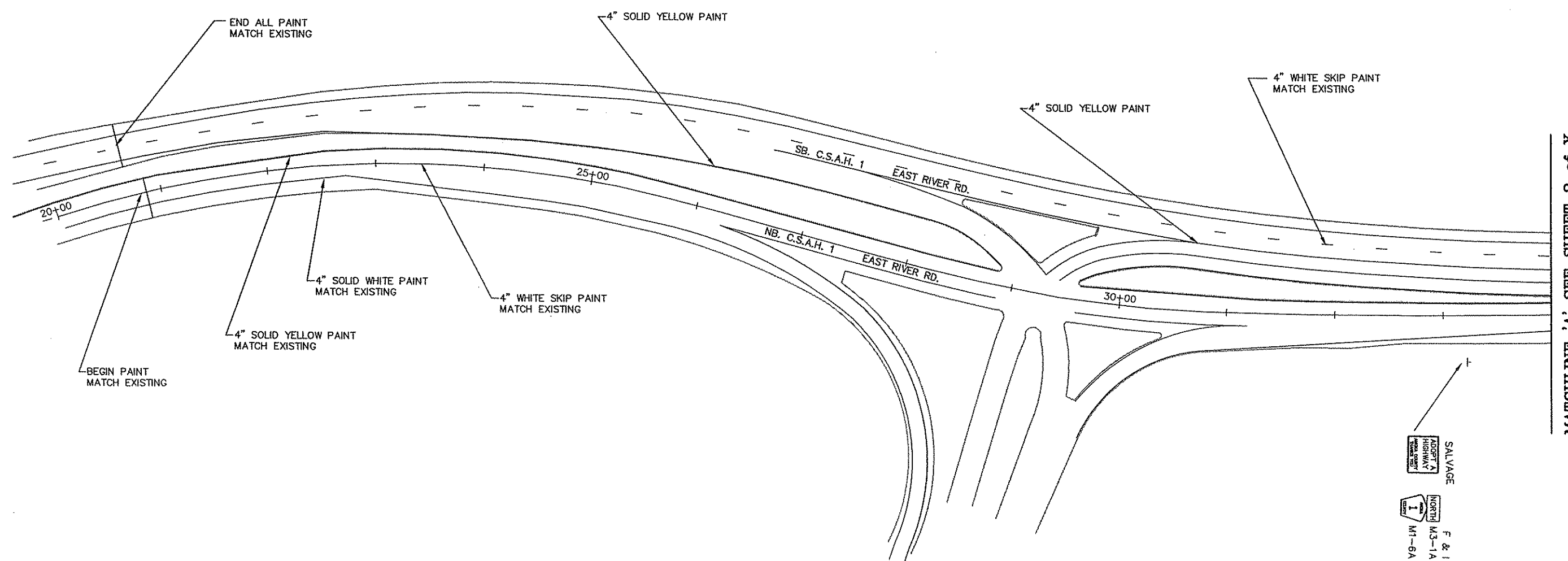
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: DAVID ROBERTSON
 SIGNATURE: *[Signature]*
 DATE: 07/02/02 LICENSE NO. 25066

DRAWN BY: BEI DATE 07/02/02
 DESIGN BY: MEG DATE 07/02/02
 CHECKED BY: JAR DATE 07/02/02



STATE PROJECT NO. _____
 STATE AID PROJECT NO. 02-601-42
 STATE AID PROJECT NO. 127-601-42
 COUNTY PROJECT NO. 02-07-01

STORM SEWER PLAN
 STA. 79+00 TO 109+00
 Sheet 20 of 27 Sheets



* INDICATES NEW INSTALLATION
 SALVAGE = REMOVE SIGN / POST
 F & I = FURNISH / INSTALL NEW

C.S.A.H. 1 EAST RIVER ROAD

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.
 PRINT NAME: LYNDON A. ROBERTS
 SIGNATURE: *[Signature]*
 DATE: 07/02/09 REG. NO. 25066

DRAWN BY: DM DATE: 02/13/02
 DESIGN BY: DATE:
 CHECKED BY: DATE:
 ANOKA COUNTY

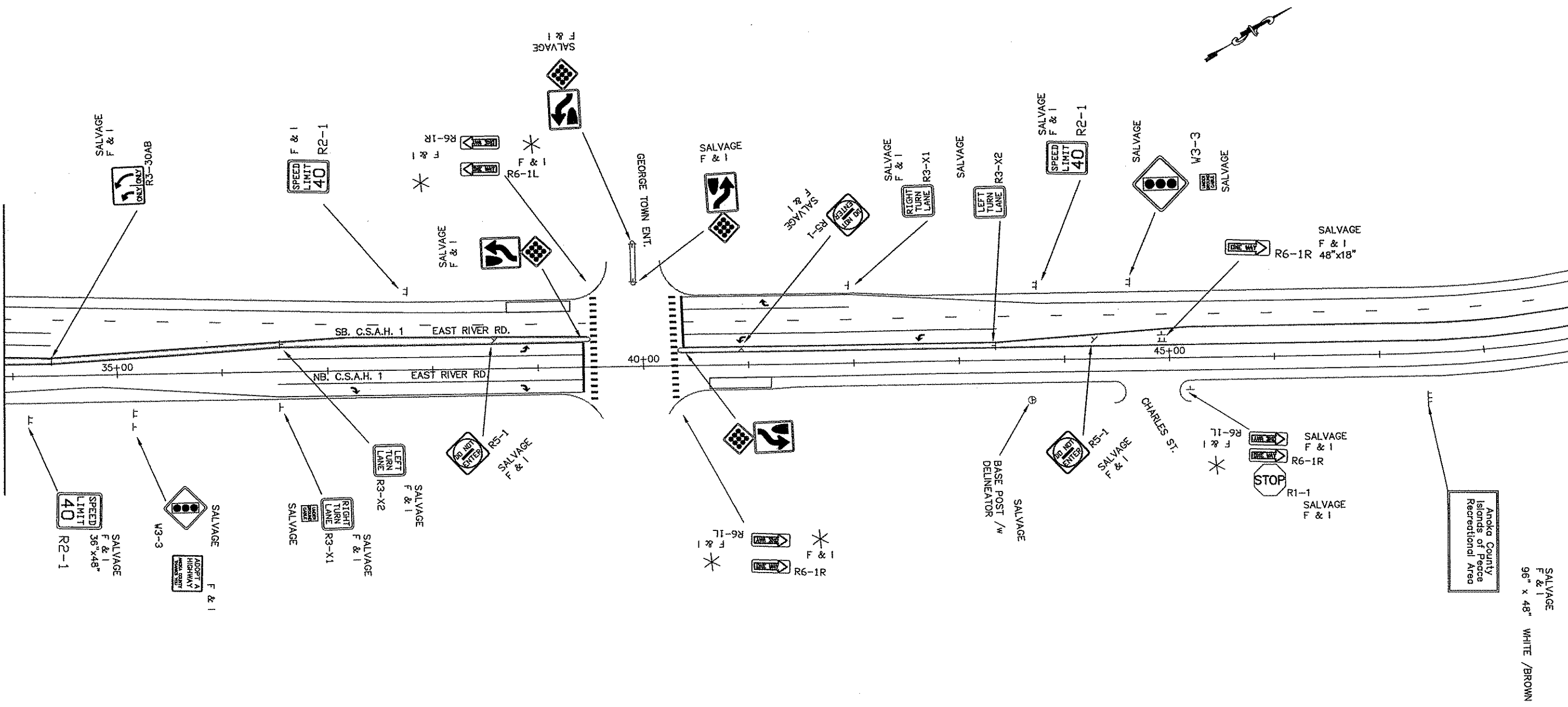
ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. 02-601-42
 M.S.A.P. NO. 127-020-023
 COUNTY PROJECT NO. 02-07-01

PERMANENT
 SIGN / STRIPING
 Sheet 21 of 27 Sheets

MATCHLINE 'A' SEE SHEET 1 of X

MATCHLINE 'B' SEE SHEET 3 of X



* INDICATES NEW INSTALLATION
 SALVAGE = REMOVE SIGN / POST
 F & I = FURNISH / INSTALL NEW

C.S.A.H. 1 EAST RIVER ROAD

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.
 PRINT NAME: LYNDON A. ROBERT
 SIGNATURE: *[Signature]*
 DATE: 07/02/02 REG. NO. 25066

DRAWN BY: DM DATE 02/13/02
 DESIGN BY: DATE
 CHECKED BY: DATE



ANOKA COUNTY
 HIGHWAY DEPT.

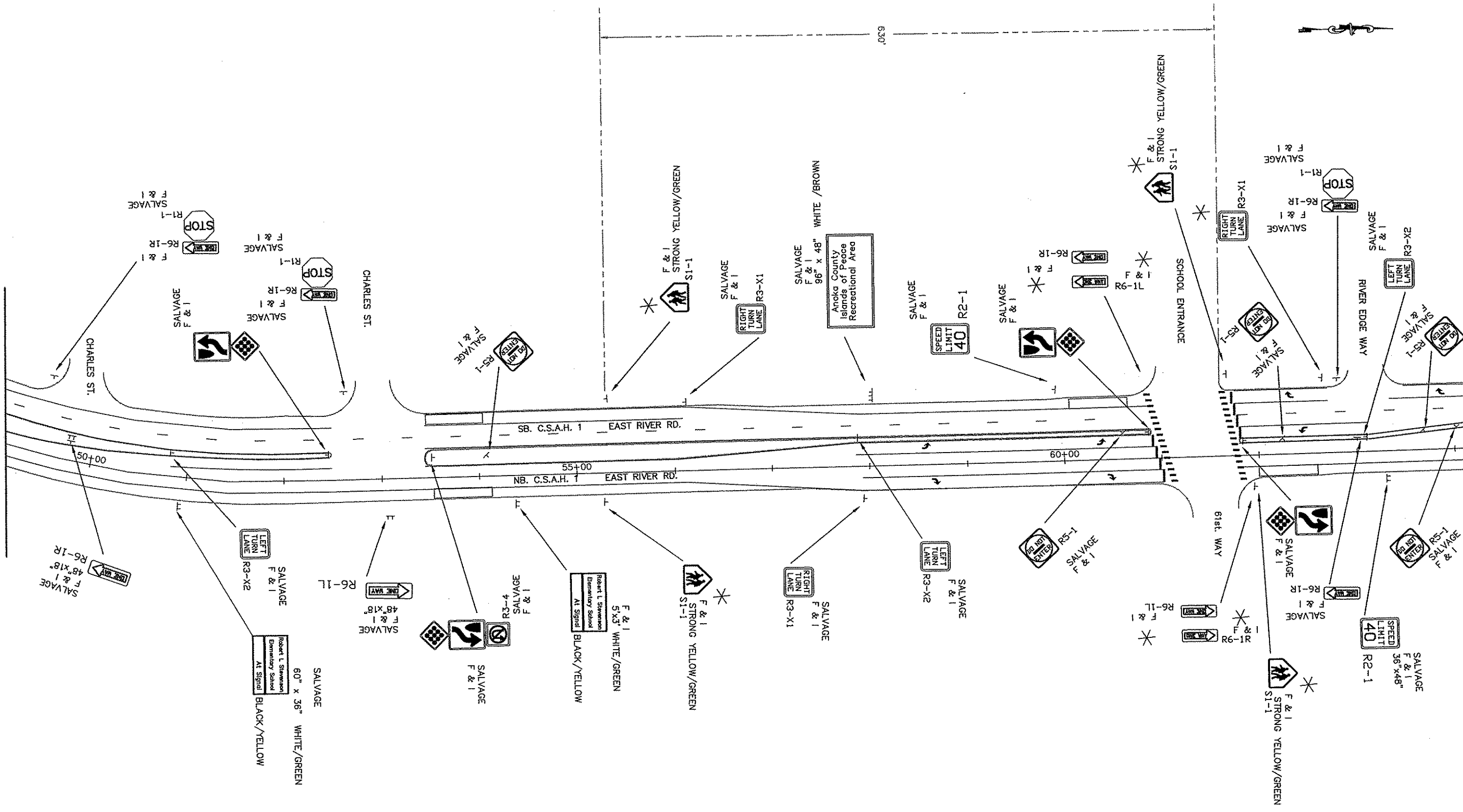
STATE PROJECT NO. _____
 STATE AID PROJECT NO. 02-601-42
 M.S.A.P. NO. 127-020-023
 COUNTY PROJECT NO. 02-07-01

PERMANENT
 SIGN / STRIPING
 Sheet 22 of 27 Sheets

SALVAGE
 F & I
 96" x 48" WHITE / BROWN

MATCHLINE 'B' SEE SHEET 2 of X

MATCHLINE 'C' SEE SHEET 4 of X



* INDICATES NEW INSTALLATION
 SALVAGE = REMOVE SIGN / POST
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C.S.A.H. 1 EAST RIVER ROAD

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.
 PRINT NAME: LYNDON A. ROBERT
 SIGNATURE: *[Signature]*
 DATE: 07/02/09 REG. NO. 25066

DRAWN BY: DM DATE: 02/13/02
 DESIGN BY: DATE:
 CHECKED BY: DATE:
 ANOKA COUNTY

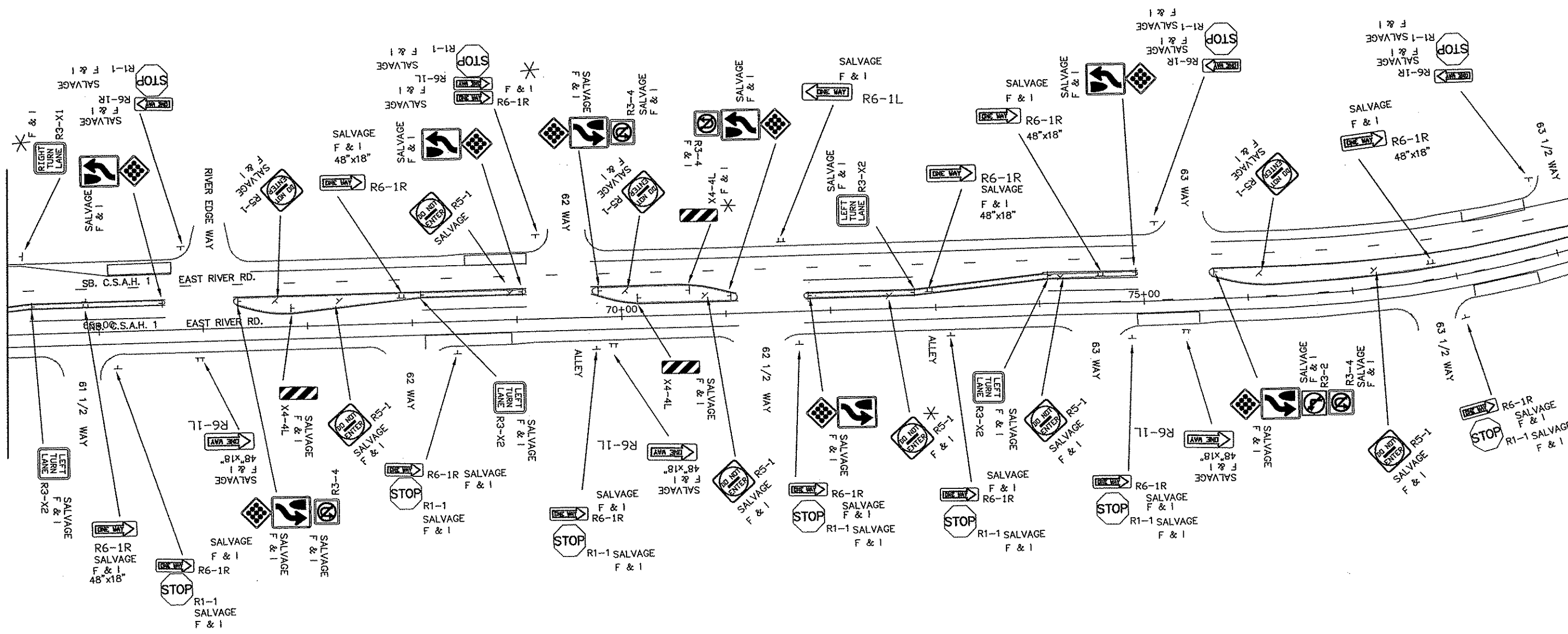
ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. 02-601-42
 M.S.A.P. NO. 127-020-023
 COUNTY PROJECT NO. 02-07-01

PERMANENT
 SIGN / STRIPING
 Sheet 23 of 27 Sheets

MATCHLINE 'C' SEE SHEET 3 OF X

MATCHLINE 'D' SEE SHEET 5 OF X



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 SALVAGE = REMOVE SIGN / POST
 F & I = FURNISH / INSTALL NEW

C.S.A.H. 1 EAST RIVER ROAD

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.
 PRINT NAME: ANDREW A. ROBERT
 SIGNATURE: [Signature]
 DATE: 07/02/02 REG. NO. 25066

DRAWN BY: DM DATE: 02/13/02
 DESIGN BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____



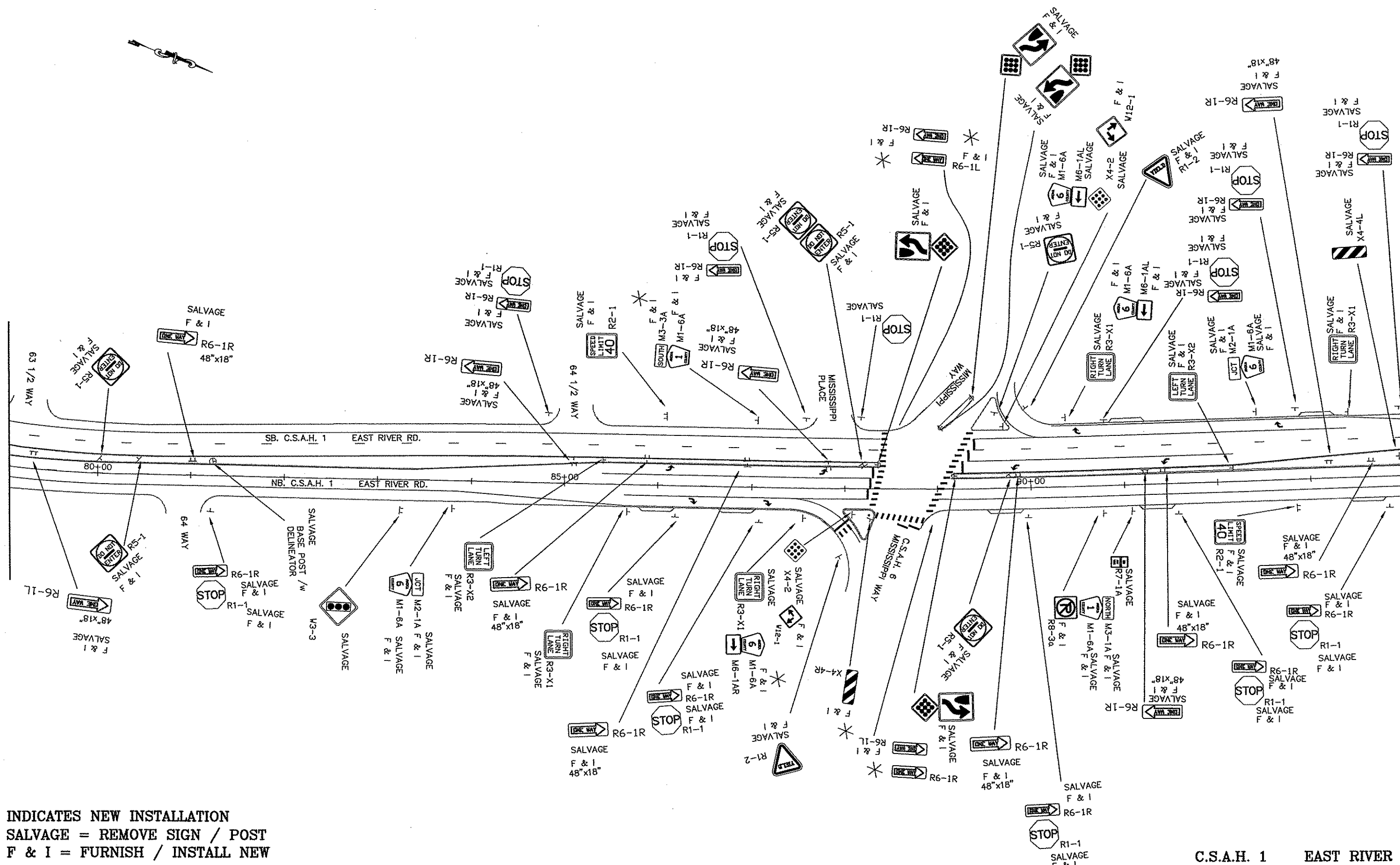
**ANOKA COUNTY
 HIGHWAY DEPT.**

STATE PROJECT NO. _____
 STATE AID PROJECT NO. 02-601-42
 M.S.A.P. NO. 127-020-023
 COUNTY PROJECT NO. 02-601-42

**PERMANENT
 SIGN / STRIPING**
 Sheet 24 of 27 Sheets

MATCHLINE 'D' SEE SHEET 4 OF 7

MATCHLINE 'E' SEE SHEET 6 OF 7



* INDICATES NEW INSTALLATION
 SALVAGE = REMOVE SIGN / POST
 F & I = FURNISH / INSTALL NEW

C.S.A.H. 1 EAST RIVER ROAD

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.
 PRINT NAME: *ANDREW A. ROSSIGNOL*
 SIGNATURE: *[Signature]*
 DATE: 07/02/02 REG. NO. 25086

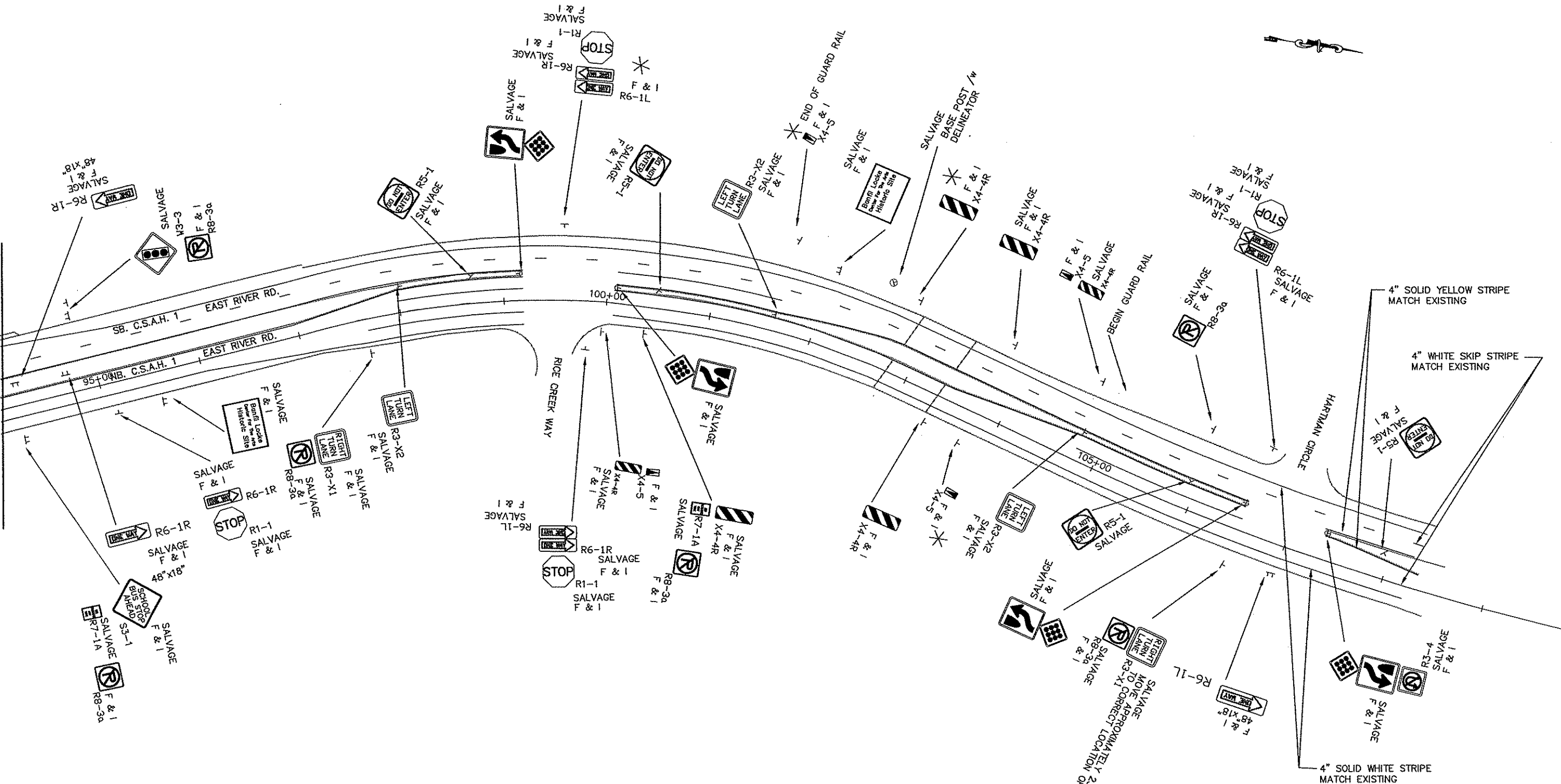
DRAWN BY: DM DATE: 02/13/02
 DESIGN BY: DATE:
 CHECKED BY: DATE:
 ANOKA COUNTY

ANOKA COUNTY HIGHWAY DEPT.

STATE PROJECT NO.
 STATE AID PROJECT NO. 02-601-42
 M.S.A.P. NO. 127-020-023
 COUNTY PROJECT NO. 02-07-01

PERMANENT SIGN / STRIPING
 Sheet 25 of 27 Sheets

MATCHLINE 'E' SEE SHEET 5 OF 7



* INDICATES NEW INSTALLATION
 SALVAGE = REMOVE SIGN / POST
 F & I = FURNISH / INSTALL NEW

C.S.A.H. 1 EAST RIVER ROAD

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.
 PRINT NAME: LYNDIA A. ROBERTS
 SIGNATURE: *[Signature]*
 DATE: 07/02/05 REG. NO. 25066

DRAWN BY: DM DATE: 02/13/02
 DESIGN BY: DATE:
 CHECKED BY: DATE:
 ANOKA COUNTY

ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. 02-601-42
 M.S.A.P. NO. 127-020-023
 COUNTY PROJECT NO. 02-07-01

PERMANENT
 SIGN / STRIPING
 Sheet 26 of 27 Sheets

M. U. T. C. D. CODE	SIZE	INSERT	QTY	SQ. FT.	TOTAL SQ. FT.	MOUNTING POST PER INSTALLATION	MOUNTING HEIGHT
R1-1	30" x 30"	STOP	29	6.25	181.25	1	7.0
R1-2	36"x36"x36"	YIELD	9	9.00	18.00	1	7.0
R2-1	36" x 48"	SPEED LIMIT 40	6	12.00	108.00	2	7.0
R3-2	24" x 24"	NO LEFT TURN	1	4.00	4.00		①
R3-4	24" x 24"	NO RIGHT TURN	5	4.00	20.00		②
R3-8a	24" x 24"	NO U-TURN	7	4.00	28.00		③
R3-X1	30" x 30"	RIGHT TURN LANE	9	6.25	56.25	1	7.0
R3-X2	30" x 30"	LEFT TURN LANE	14	6.25	87.50	1	7.0
R3-30 AB	36" x 30"	ONLY ONLY	1	7.50	7.50	1	7.0
R4-7	24" x 30"	RIGHT TURN ONLY	24	5.00	120.00	1	7.0 ③
X4-2	18" x 18"	DIAMOND PATTERN	24	2.25	54.00		
R5-1	30" x 30"	NO ENTER	25	6.25	156.25	1	7.0 ③
R6-1R	48" x 18"	ONE WAY	20	6.00	120.00	2	7.0
R6-1L	48" x 18"	ONE WAY	7	6.00	42.00	2	7.0
R6-1R	36" x 12"	ONE WAY	36	3.00	108.00		
R6-1L	36" x 12"	ONE WAY	8	3.00	24.00		
SUB-TOTAL					1134.75		

M. U. T. C. D. CODE	SIZE	INSERT	QTY	SQ. FT.	TOTAL SQ. FT.	MOUNTING POST PER INSTALLATION	MOUNTING HEIGHT
W12-1	18" x 18"	WALKWAY	2	2.25	4.50	1	4.0 ①
S3-1	36" x 36"	PEDESTRIAN CROSSING	4	9.00	36.00	2	7.0
S3-1	36" x 36"	SCHOOL BUS STOP AHEAD	2	9.00	18.00	2	7.0
X4-4R	12" x 36"	STRIPING	5	3.00	15.00	1	4.0
X4-4L	12" x 36"	STRIPING	3	3.00	9.00	1	4.0
X4-5	12" x 36"	STRIPING	2	0.50	1.00	1	4.0
X4-5	12" x 36"	STRIPING	2	0.50	1.00	1	4.0
M1-6A	24" x 24"	MINNESOTA COUNTY	4	4.00	16.00	1	7.0
M1-6A	24" x 24"	MINNESOTA COUNTY	1	2.20	2.20		
M1-6A	24" x 24"	MINNESOTA COUNTY	1	2.20	2.20		
M1-6A	24" x 24"	MINNESOTA COUNTY	2	2.00	4.00		
M1-6A	24" x 24"	MINNESOTA COUNTY	1	2.00	2.00		
M1-6A	24" x 24"	MINNESOTA COUNTY	3	4.00	12.00	1	7.0
SUB-TOTAL (COLUMN 2)					127.30		
SUB-TOTAL (COLUMN 1)					1134.75		
TOTAL					1262.05		


M. U. T. C. D. CODE	SIZE	INSERT	QTY	SQ. FT.	TOTAL SQ. FT.	MOUNTING POST PER INSTALLATION	MOUNTING HEIGHT
WHITE BROWN	48" x 36"	Banfil Locke Center For The Arts Historic Site	1	12.00	12.00	2	7.0
WHITE BROWN	48" x 36"	Banfil Locke Center For The Arts Historic Site	1	12.00	12.00	2	7.0
WHITE GREEN BLACK YELLOW	60" x 36"	Robert L Stevenson Elementary School At Signal	1	15.00	15.00	2	7.0
WHITE GREEN BLACK YELLOW	60" x 36"	Robert L Stevenson Elementary School At Signal	1	15.00	15.00	2	7.0
WHITE GREEN	96" x 48"	Anoka County Islands of Peace Recreational Area	1	32.00	32.00	3	7.0
WHITE GREEN	96" x 48"	Anoka County Islands of Peace Recreational Area	1	32.00	32.00	3	7.0
SUB-TOTAL (COLUMN 1)					1134.75		
SUB-TOTAL (COLUMN 2)					127.30		
SUB-TOTAL (COLUMN 3)					118.00		
TOTAL					1380.05		

- ① 2 MOUNTED BACK TO BACK w/ R4-7
- ② 1 MOUNTED BELOW R4-7
- ③ 2 MOUNTED BELOW R3-X1 1 MOUNTED BELOW S3-1
- ④ 1 MOUNTED BELOW X4-4R
- ⑤ 4 BACK TO BACK w/R6-1R ON SIGNAL POLE
- ⑥ 5 MOUNTED BACK TO BACK w/ R6-1R ON R1-1
- ⑦ 50 MOUNTED ABOVE R1-1
- ⑧ 4 BACK TO BACK w/R6-1R ON SIGNAL POLE
- ⑨ 5 MOUNTED BACK TO BACK w/ R6-1R ABOVE R1-1

NOTE:

- LOCATIONS OF 'NO PASSING ZONES' ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD
- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE FIELD MANUAL DATED JANUARY 2001

C.S.A.H. 1 EAST RIVER ROAD

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. PRINT NAME: LINDA A. ROBERTS SIGNATURE: <i>Linda Roberts</i> DATE: 07/02/02 REG. NO. 25066					DRAWN BY: DM DATE: 02/13/02 DESIGN BY: DATE: CHECKED BY: DATE:	 ANOKA COUNTY HIGHWAY DEPT.	STATE PROJECT NO. _____ STATE AID PROJECT NO. 02-601-42 M.S.A.P. NO. 127-020-023 COUNTY PROJECT NO. 02-07-01	PERMANENT SIGN / STRIPING Sheet 27 of 27 Sheets	
NO	DATE	BY	CHKD	APPR	REVISION				

PLAN SYMBOLS

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

- LOWLAND.....
- TIMBER.....
- ORCHARD.....
- BRUSH.....
- NURSERY.....

- CATTLE GUARD.....

- OVERPASS (Highway Over).....

- UNDERPASS (Highway Under).....

- BRIDGE.....

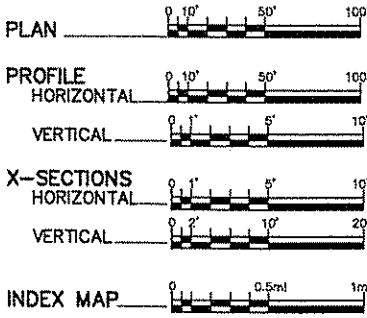
- BUILDING (One Story Frame).....
- F-FRAME C-CONCRETE
- S-STONE T-TILE
- B-BRICK ST-STUCCO

- 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



MINNESOTA DEPARTMENT OF TRANSPORTATION

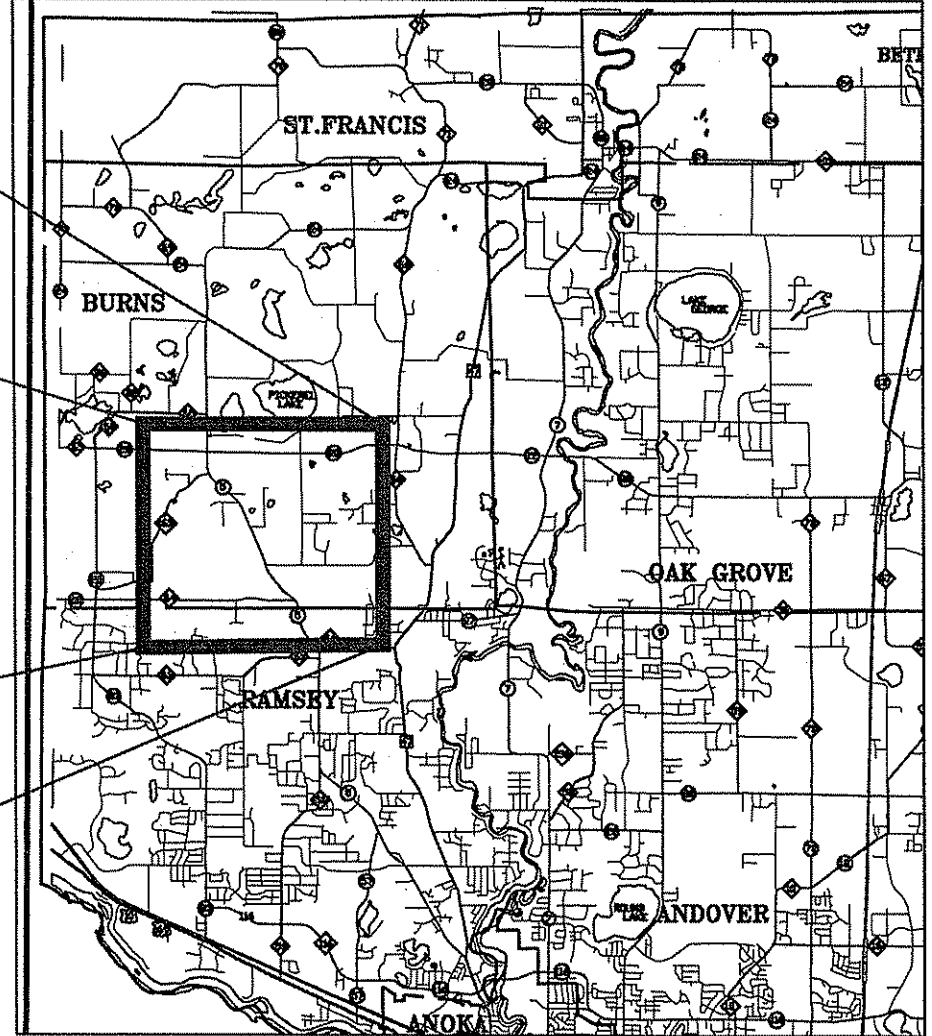
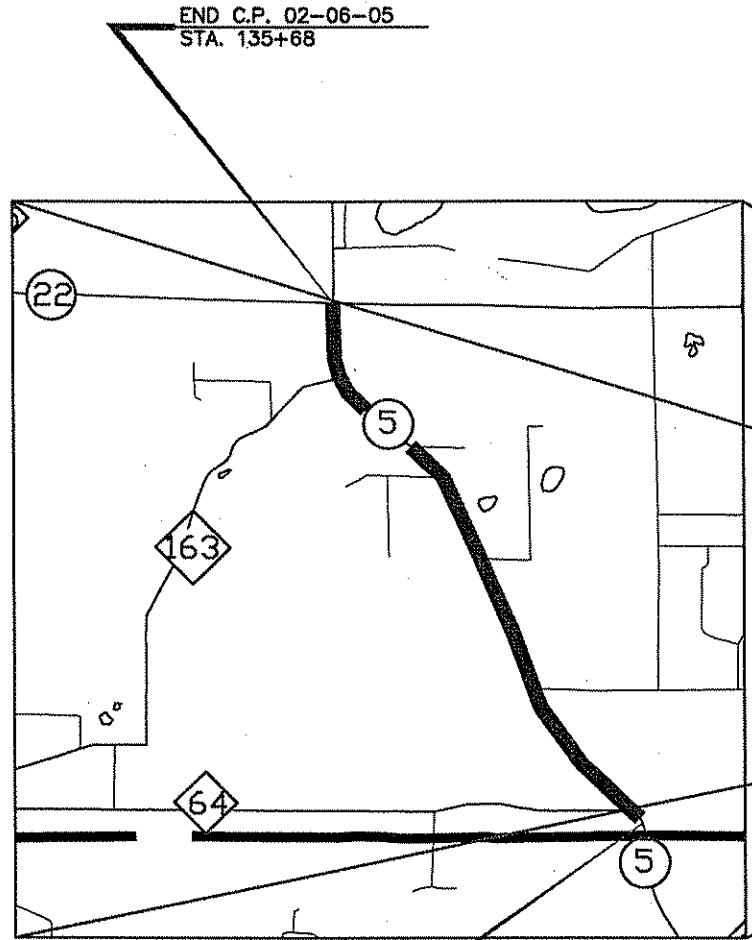
ANOKA COUNTY

CONSTRUCTION PLAN FOR BITUMINOUS MILLING, BITUMINOUS RECLAIMING, BITUMINOUS SURFACING

LOCATED ON C.S.A.H. 5 FROM COUNTY ROAD 64 TO C.S.A.H. 22 (Geographic Description)

COUNTY PROJECT NO. 02-06-05
C.S.A.H. 5

GROSS LENGTH	12,808 FEET	2.43 MILES
BRIDGES-LENGTH	0.000 FEET	0.000 MILES
EXCEPTIONS-LENGTH	0.000 FEET	0.000 MILES
NET LENGTH	12,808.0 FEET	2.43 MILES



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

GOVERNING SPECIFICATIONS

THE 2000 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MMUTCD, INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS - JANUARY, 2001."

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES
3	TYPICAL SECTIONS
4 - 6	TABULATION CHARTS
7	MISCELLANEOUS DETAILS
8	BITUMINOUS MILLING HAUL LOCATIONS
9	DETAIL FOR RTL AT CSAH 5 AND 22
10	DETAIL FOR RTL & BYPASS AT CR 64 AND 163
11	CROSS SECTIONS
12 - 18	SIGNING PLANS

THIS PLAN CONTAINS 18 SHEETS

DESIGN DESIGNATION

ESAL ₂₀	447,133
R VALUE	20
ADT (2001)	3002
Proj. ADT (2021)	4803
Proj. HCADT (2021)	283
Soil Factor	NA
<u>10</u> TON DESIGN	

Functional Classification MINOR
 No. of Traffic Lanes 2 No. of Parking Lanes 0
 Design Speed 55 MPH
 Based on Stopping Sight Distance
 Height of eye 3.5' Height of object 0.5'
 Design Speed not achieved at:
 STA. _____ TO STA. _____ MPH
 STA. _____ TO STA. _____ MPH
 STA. _____ TO STA. _____ MPH

Approved 7/9, 2002
 ANOKA COUNTY ENGINEER

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: MARK A DALY
 SIGNATURE:
 DATE: 08/27/02 LICENSE NO. 21763

DRAWN BY BFL DATE 08/27/02
 DESIGN BY MFG DATE 08/27/02
 CHECKED BY MAD DATE 08/27/02



**ANOKA COUNTY
HIGHWAY DEPT.**

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 02-06-05

TITLE SHEET

Sheet 01 of 18 Sheets

NO	DATE	BY	CHKD	APPR	REVISION

NAME: S:\SDSKPROJ\02-000-00\PLAN\01-TITLE.DWG

STATEMENT OF ESTIMATED QUANTITIES

CHART	NOTES	ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITY
C		2101.502	CLEARING	TREE	9
C		2101.507	GRUBBING	TREE	9
	1	2104.501	REMOVE METAL CULVERT	LIN FT	48
	2	2104.503	REMOVE BITUMINOUS PAVEMENT	SQ YD	106
	20	2104.513	SAWING BITUMINOUS PAVEMENT	LIN FT	480
	3	2104.523	SALVAGE SIGN TYPE C	EACH	62
		2105.501	COMMON EXCAVATION (P)	CU YD	812
		2105.525	TOPSOIL BORROW (LV)	CU YD	226
	4	2123.503	MOTOR GRADER	HOUR	10
	5	2123.509	DOZER	HOUR	10
	6	2123.525	8 TON STEEL-WHEELED ROLLER	HOUR	10
	18	2130.501	WATER	M-GAL	15
		2211.501	AGGREGATE BASE CLASS 5	TON	400
	9	2232.501	MILL BITUMINOUS SURFACE (2")	SQ YD	38596
F		2232.501	MILL BIT APPROACH	SQ YD	90
	10	2232.604	HAJL BITUMINOUS MILLINGS (LV)	CU YD	1950
G	8	2331.518	BITUMINOUS PATCHING MIXTURE	TON	120
E	7	2331.601	BITUMINOUS PAVEMENT RECLAMATION	SQ YD	26283
G		2350.501	TYPE LV4 WEARING COURSE MIXTURE	TON	6706
G		2350.502	TYPE LV3 NON-WEARING COURSE MIXTURE	TON	5411
J		2350.503	TYPE LV4 WEARING COURSE MIXTURE, 2" THICK	SQ YD	44
G	11	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	7078
	12	2501.511	15" CS PIPE CULVERT	LIN FT	48
	12	2501.567	15" CS SAFETY APRON & GRATE, DESIGN 3128	EACH	2
H	13	2535.501	BITUMINOUS CURB	LIN FT	1420
		2540.602	INSTALL MAILBOX SUPPORT	EACH	38
		2563.601	TRAFFIC CONTROL	LS	1
		2564.531	SIGN PANELS TYPE C	SQ FT	518
	14	2564.602	TEMPORARY RELOCATE SIGN TYPE C	EACH	12
		2564.603	4" SOLID LINE WHITE - PAINT	LIN FT	27258
		2564.603	4" BROKEN LINE WHITE - PAINT	LIN FT	50
		2564.603	4" SOLID LINE YELLOW - PAINT	LIN FT	17196
		2564.603	4" BROKEN LINE YELLOW - PAINT	LIN FT	2050
	15	2564.603	4" SOLID LINE YELLOW - PAINT TEMPORARY	LIN FT	17196
	15	2564.603	4" BROKEN LINE YELLOW - PAINT TEMPORARY	LIN FT	2050
B		2575.501	SEEDING	ACRE	3
B		2575.502	SEED MIXTURE 50B	LB	155
B		2575.502	SEED MIXTURE 130B	LB	310
B	19	2575.505	SODDING TYPE LAWN	SQ YD	200
B		2575.519	DISK ANCHORING	ACRE	3
B	16	2575.525	EROSION STABILIZATION BLANKET, TYPE 2	SQ YD	2302
B		2575.531	COMMERCIAL FERT ANALYSIS 22-5-10 (SLOW RELEASE)	TON	0.50
	17	2580.502	TEMPORARY LANE MARKING	LIN FT	238

BASIS OF ESTIMATED QUANTITIES	
SPEC NO.	RATE
2350	TYPE LV3 NONWEARING COURSE MIXTURE TYPE LV3 WEARING COURSE MIXTURE TYPE HV 4 WEARING COURSE MIXTURE 110 LBS / SQ YD / INCH
2357	BITUMINOUS MATERIAL FOR TACK COAT 0.05 GAL / SQ YD / PER LIFT APPLIED
2575	COMMERCIAL FERTILIZER - ANALYSIS 22-5-10 (SLOW RELEASE) 300 LBS / ACRE FOR SEED AND SOD AREAS

CONSTRUCTION NOTES

1	Remove in place culvert at CSAH 22 right turn lane station 12+25 Rt. Includes all sizes.
2	Includes all bituminous pavement, regardless of depth.
3	Salvage to Anoka County Highway Department.
4	To be used to cut out 2" of reclaimed bituminous material for right turn lane and bypass lane construction, as directed by the Engineer.
5	To be used in right turn lane and bypass lane construction, as directed by the Engineer.
6	To be used to compact the reclaimed bituminous material in right turn lane and by pass lane construction, as directed by the Engineer.
7	To be used as shouldering in high erosion areas along the bituminous shoulder, as directed by the Engineer. To be topped with topsoil borrow.
8	To be used to patch the milled bituminous surface prior to bituminous paving, as directed by the Engineer.
9	Payment at the Contract Price for depths 0 to 2 1/2". Depths from 2 5/8" to 3 1/2" shall be paid at 125% of the Contract Unit Price.
10	Bituminous milling to be hauled to designated Burns Township Streets. See plan sheet 08.
11	Includes 2049 gallon asphalt emulsion to be applied to seed areas along the shoulder. Application rate of 0.18 gallon per square yard for seed areas.
12	To be placed at entrance at CSAH 22 right turn lane station 12+50 Rt.
13	Payment for placing shoe-formed bituminous lip along the shoulder, as directed by the Engineer.
14	Temporarily relocate signs, type C, in right turn lane and bypass lane construction, as directed by the Engineer.
15	Traffic paint shall be placed at the end of each days bituminous milling work to mark the centerline of the roadway.
16	To be placed at high erosion areas along the shoulder, as directed by the Engineer.
17	For lane delineation on the paved Type LV3 NW and the Type LV4 Wear Courses.
18	Water to be used to moisten, to a depth of approximately two inches, the seed areas adjacent to the bituminous shoulder, prior to applying the emulsified asphalt.
19	To be used in berm areas as directed by the engineer.
20	Sawing bituminous pavement eastbound r/l on CSAH 22. See page 9.

TABULATION CHART LIST

CHART	SHEET NO	DESCRIPTION
A	4	DRIVEWAY CONSTRUCTION
B	4	TURF ESTABLISHMENT
C	4	CLEARING AND GRUBBING
D	5	MILL BITUMINOUS SURFACE (2")
E	5	BITUMINOUS PAVEMENT RECLAMATION
F	5	MILL BITUMINOUS SURFACE APPROACHES (BUTT JOINTS)
G	5	BITUMINOUS SUMMARY
H	7	BITUMINOUS CURB
J	7	BITUMINOUS FLUME

MN DOT STANDARD PLATE NO.	DESCRIPTION
3040 F	CORRUGATED METAL PIPE CULVERT
3128 H	METAL SAFETY APRON & GRATE
3134 C	RIPRAP AT CMP OUTLETS
4006 L	MANHOLE OR CATCH BASIN PRECAST - DESIGN G AND H
4026 A	CONCRETE ENCASED ADJUSTING RINGS
4101 D	RING CASTING FOR MANHOLE OR CATCH BASIN
4140 D	SPECIAL GRATE CASTING FOR CATCH BASIN
8000 I	STANDARD BARRICADE
8117 F	PRECAST CONCRETE HAND HOLE (OR PULLBOX)

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

PRINT NAME: MARK A DALY
SIGNATURE: *M A DALY*
DATE: 06/27/02 LICENSE NO. 21763

DRAWN BY: BEJ DATE 06/27/02

DESIGN BY: MEG DATE 06/27/02

CHECKED BY: MAD DATE 06/27/02



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
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STATE AID PROJECT NO. _____
COUNTY PROJECT NO. 02-06-05

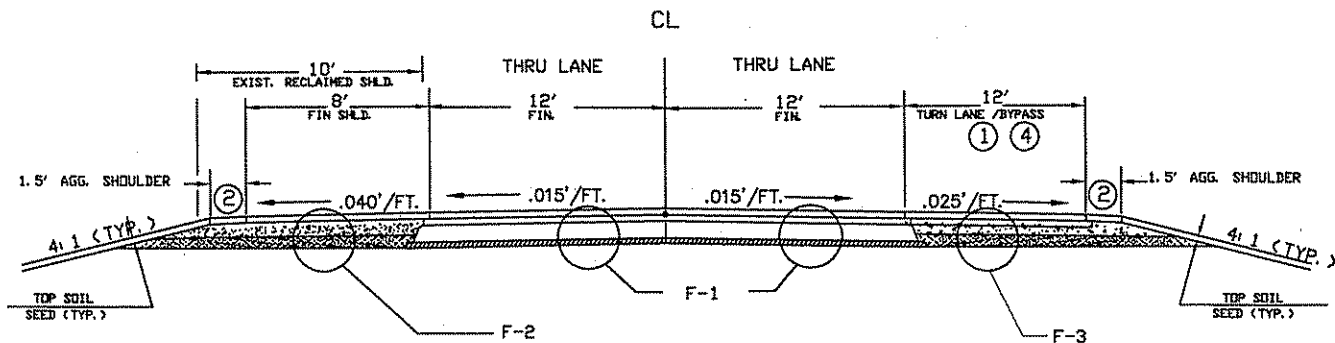
ESTIMATED QUANTITIES
CONSTRUCTION NOTES,
AND TAB INDEX

Sheet 02 of 18 Sheets

NO	DATE	BY	CKD	APPR	REVISION

NAME: S:\SDSKPROJ\000000\000000\026000.DWG

PROPOSED CONSTRUCTION
STA 7+40 TO STA 135+68



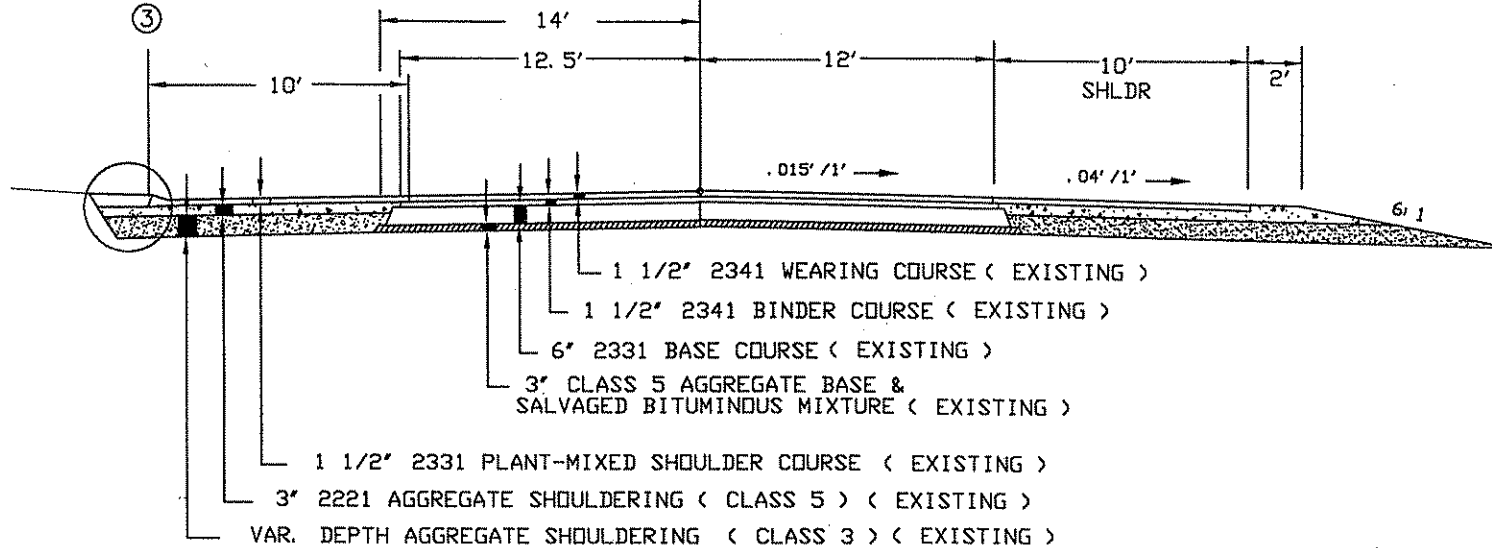
DESIGN F-1

- 2" LVWE45030C
- 2" MILL BITUMINOUS SURFACE
- 2" LVNW35030C
- 7 1/2" INPLACE BIT SURFACING
- 3" INPLACE AGG. BASE

DESIGN F-2

- 2" LVWE45030C
- 4.5' PROPOSED RECLAIMED SECTION 1.5' BITUMINOUS AND 3.0' AGG. BASE (REDUCE FROM 10' TO 8' SHLDR.)
- VARIABLE DEPTH INPLACE AGG. BASE

BERM SECTION



DESIGN F-3

- 2" LVWE 45030C
- 2" LVNW 35030C
- 4.5' PROPOSED RECLAIMED SECTION 1.5' BIT. AND 3.0' AGG. BASE (EXPAND FROM 10' TO 12')
- 3" INPLACE AGG. BASE

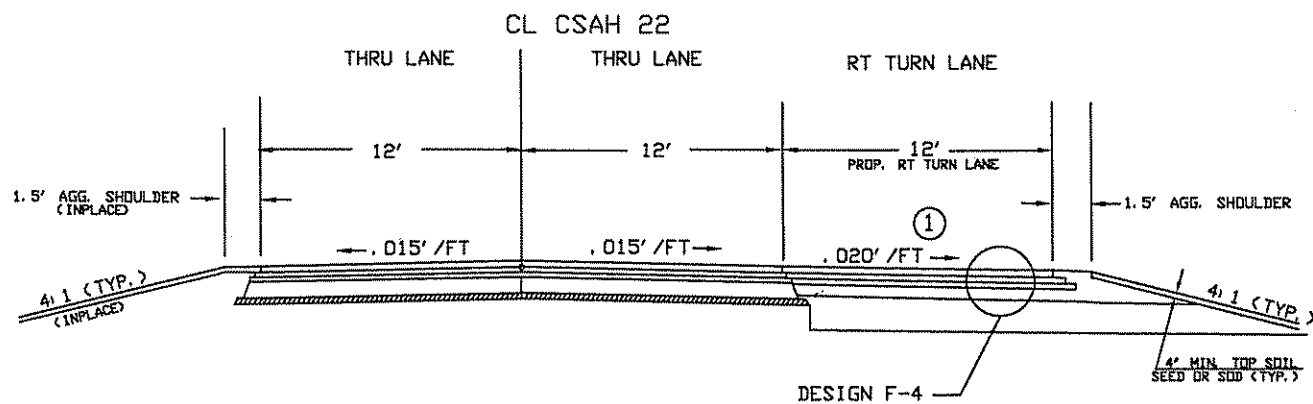
PROPOSED RIGHT TURN LANE CONSTRUCTION

- LSB CSAH 5 @ CR 64 STA 11+00 - STA 15+65
- LSB CSAH 5 @ CR 163 STA 119+45 - STA 124+05
- LNB CSAH 5 @ CSAH 22 STA 127+89 - STA 133+75
- LEB CSAH 22 @ CSAH 5 STA 11+00 - STA 15+25

PROPOSED BY-PASS LANE CONSTRUCTION

- LNB CSAH 5 @ CR 64 STA 7+40 - STA 13+30
- LNB CSAH 5 @ CR 163 STA 115+55 - STA 121+90

PROPOSED CONSTRUCTION
EB RTL CSAH 22 @ CSAH 5



DESIGN F-4

- 2" LVWE 45030BC
- 2" LVNW 35030BC
- 2" LVNW 35030BC
- 4" CL 5
- VARIABLE SUBGRADE

- ① NEW FULL DEPTH CONSTRUCTION
- ② RECYCLED BIT. MATERIAL TO BE USED AS AGG. SHLD.
- ③ 4" SHOE CURB TO BE PLACED IN BERM AREAS CONSECUTIVELY WITH 2" OVERLAY (SEE DETAIL)
- ④ ROLL OUT 2" OF RECLAIMED BITUMINOUS MATERIAL IN RIGHT TURN LANE AND BYPASS LANE AREAS TO CONSTRUCT ADDITIONAL WIDTH

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 LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: MARY A. DALY
 SIGNATURE: *MAD*
 DATE: 05/27/02 LICENSE NO. 21763

DRAWN BY: BEL DATE 06/25/02
 DESIGN BY: MEG DATE 06/25/02
 CHECKED BY: MAD DATE 06/25/02



ANOKA COUNTY
HIGHWAY DEPT.

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 COUNTY PROJECT NO. 02-06-05

TYPICAL SECTION

DRIVEWAY CONSTRUCTION			A
STATION	ADDRESS	REPLACEMENT BITUMINOUS	AGGREGATE BASE CLASS 5
		SQ YD	TON
12+14	HO# 18111	28.45	2
14+38	HO# 18165	19.07	
15+71	HO# 18156	19.83	
22+14	HO# 18233	18.38	
25+44	HO# 18265	17.16	
26+93	FIELD ENT.	3.33	2
27+50	HO# 18288	16.06	2
30+03	PIT. ENT.	22.10	2
34+86	FIELD ENT.	3.33	2
35+84	FIELD ENT.	3.33	2
38+50	HO# 18433	13.45	
42+25	HO# 18466	19.90	2
43+53	FIELD ENT.	3.33	2
47+00	HO# 18550	11.13	
51+23	HO# 18600	21.10	2
53+55	HO# 18650	21.16	2
55+38	HO# 18675	16.15	2
61+25	HO# 18730	16.11	2
61+50		4.23	
62+15	HO# 18760	13.62	
65+34	HO# 18845	19.13	2
65+91	HO# 18830	18.31	2
69+00	HO# 18834	29.24	2
71+21	HO# 18874	17.84	2
75+20	FIELD ENT.	3.33	2
76+71	HO# 18960	19.37	
76+96	HO# 18959	23.83	
78+71	HO# 18954/18964	28.06	2
79+35	HO# 18970	25.11	2
83+91	HO# 19047	29.73	
87+80	HO# 19155 S.	20.46	
89+34	HO# 19155 N.	22.43	2
99+00	HO# 19233	25.08	
102+11		22.50	2
103+35	HO# 19285	22.51	2
106+38	FIELD ENT.	3.33	2
118+15	HO# 19447	23.37	2
121+13	HO# 19454	25.42	2
122+06		32.63	2
122+87	HAPPY COR.	34.69	2
123+89		21.87	2
124+58	HO# 19550	35.33	
130+32	HO# 19620	19.67	2
130+89	CH# 19653 S.		
132+55	CH# 19653 N.		
133+23	HO# 19654	10.70	
TOTALS		825	58

TURF ESTABLISHMENT								B
STATION	STATION	LOCATION	SOD	EROSION STABILIZATION BLANKET	SEEDING	SEED MIXTURE TYPE 50A	SEED MIXTURE TYPE 130A	COM FERT ANALYSIS 22-5-10 (SLOW RELEASE)
			SQ YD	SQ YD	ACRE	POUND	POUND	TON
23+20	26+35	LT.		5.5				
26+70	27+65	LT.		5.5				
76+20	80+40	RT.		5.5				
99+75	102+05	RT		5.5				
121+60	122+60	RT		5.5				
130+45	131+45	LT		5.5				
131+60	132+10	LT		5.5				
132+30	133+40	LT		5.5				
133+85		30' LT TO 400' LT		1156				
7+60	135+68	RT & LT	200		3	155	310	0.5
121+90	115+70	RT		551				
41+00	34+80	RT		551				
TOTAL			200	2302	3	155	310	0.5

CLEARING & GRUBBING			C
STATION	LOCATION	CLEAR	GRUB
11+45	40' RT	1	1
11+46	52' RT	1	1
11+70	30' RT	1	1
12+06	49' RT	1	1
12+20	32' RT	1	1
12+30	45' RT	1	1
12+53	31' RT	1	1
12+65	32' RT	1	1
13+24	51' RT	1	1
TOTALS		9	9

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 LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: MARK A DALY
SIGNATURE: [Signature]
DATE: 06/27/02 LICENSE NO. 21763

DRAWN BY: PMI DATE 06/27/02
DESIGN BY: PMI DATE 06/27/02
CHECKED BY: MAD DATE 06/27/02



ANOKA COUNTY
HIGHWAY DEPT.

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STATE AID PROJECT NO. _____
STATE AID PROJECT NO. _____
COUNTY PROJECT NO. 02-06-05

TABULATION CHARTS
Sheet 04 of 18 Sheets

MILL BITUMINOUS SURFACE (2")				D
LOCATION	LENGTH FEET	WIDTH FEET	AREA SQ YD	REMARKS
CSAH 5	12790	25	35528	MILL BITUMINOUS, 2" DEPTH
RT TURN LANE, SOUTHBOUND AT CR 64	480	11	587	MILL BITUMINOUS / CLASS 5, 2" DEPTH
RT TURN LANE, NORTHBOUND AT CSAH 22	480	11	587	MILL BITUMINOUS / CLASS 5, 2" DEPTH
BYPASS, NORTHBOUND AT CR 64	620	11	758	MILL BITUMINOUS / CLASS 5, 2" DEPTH
TOTAL			37459	

BITUMINOUS PAVEMENT RECLAMATION				E
LOCATION	LENGTH FEET	WIDTH FEET	AREA SQ YD	REMARKS
CSAH 5 NORTHBOUND SHOULDER	12660	9.5	13363	STA 8+10 TO 134+70
CSAH 5 SOUTHBOUND SHOULDER	12240	9.5	12920	STA 12+30 TO 134+70
TOTAL			26283	

MILL BIT DR. / STREET APPROACHES (BUTT JOINTS)			F
LOCATION	LENGTH FEET	MILL WIDTH FEET	MILL SQ YDS
W. CR 64	28	2	6.22
HO# 18165	17	2	3.78
HO# 18156	22	2	4.89
HO# 18233	15	2	3.33
HO# 18265	22	2	4.89
HO# 18433	14	2	3.11
185TH AVE	23	2	5.11
PERIDOT ST	33	2	7.33
HO# 18760	12	2	2.67
HO# 18960	26	2	5.78
HO# 18959	14	2	3.11
HO# 19047	15	2	3.33
HO# 19155 S.	12	2	2.67
HO# 19233	18	2	4.00
CR 163	27	2	6.00
HO# 19550	18	2	4.00
HO# 19653 S.	29	2	6.44
HO# 19653 N.	41	2	9.11
HO# 8040 (CSAH 22)	18	2	4.00
TOTAL			89.8

BITUMINOUS SUMMARY											G	
LOCATION	LENGTH FEET	LV3NW WIDTH FEET	LV3NW SQ YD	LV3NW TONS	LV3NW WIDTH FEET	LV3NW SQ YD	LV3NW TONS	LV4WE WIDTH FEET	LV4WE SQ YD	LV4WE TONS	TYPE 41 PATCHING TONS	TACK GALLON
CSAH 5 NB DRIVING LANE (1),(2)	12790				12.5	17764	2443	12.0	17053	1876	60	1741
CSAH 5 NB DRIVING LANE (1),(2)	12790				12.5	17764	2443	12.0	17053	1876	60	1741
CSAH 5 RTL, NB AT CSAH 22	480				11.5	613	67	12.0	640	70		63
CSAH 5 RTL, NB AT CR 64	480				11.5	613	67	12.0	640	70		63
CSAH 5 RTL, NB AT CR 163	480				11.5	613	67	12.0	640	70		63
CSAH 5 BYPASS LANE, NB AT CR 64	620				11.5	792	87	12.0	827	91		81
CSAH 5 BYPASS LANE, NB AT CR 163	620				11.5	792	87	12.0	827	91		81
CSAH 5 NB SHOULDER	11070							8.0	9840	1082		492
CSAH 5 NB SHOULDER	11830							8.0	10516	1157		526
CSAH 22 RTL, EB AT CSAH 5	480	13	693	76	12.5	667	73	12.0	640	70		65
BITUMINOUS STREETS AND ENTRANCES, 2" THICK									2288	252		114
TOTALS				76	95	39619	5335	112.0	60964	6706	120	5029

CONSTRUCTION NOTES
(1) QUANTITY ESTIMATED AT 275#/SQUARE YARD FOR FIELD VARIATIONS
(2) TYPE 41 BITUMINOUS MIXTURE FOR PATCHING ESTIMATED AT 50 TONS PER MILE.

NO	DATE	BY	CHKD	APPR	REVISION

NAME: 5:\SDSKPRC\1\000000\000000\028000.DWG

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
PRINT NAME: MARI A DAILY
SIGNATURE: *MAD*
DATE: 06/27/02 LICENSE NO. 21763

DRAWN BY: PML DATE 06/27/02
DESIGN BY: PML DATE 08/27/02
CHECKED BY: MAD DATE 06/27/02



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
STATE AID PROJECT NO. _____
STATE AID PROJECT NO. _____
COUNTY PROJECT NO. 02-06-05

TABULATION CHARTS

Sheet 05 of 18 Sheets

EARTHWORK

STATION	DRIVEWAY STREET ADDRESS	DRIVEWAY MATERIAL	BUMP OUT - 1.5'	BUMP OUT - 4'	BUMP OUT - END OF RADIUS	MILL BUTT JOINT	CLASS 5 -2 TON
11+61	W. CR 64	BIT			X	X	
12+14	HO# 18111	GRAVEL		X			X
14+38	HO# 18165	BIT		X		X	
15+71	HO# 18156	BIT		X		X	
22+14	HO# 18233	BIT		X		X	
25+44	HO# 18265	BIT		X		X	
26+93	FIELD ENT.	GRAVEL	X				X
27+50	HO# 18288	GRAVEL		X			X
30+03	PIT ENT.	GRAVEL		X			X
34+86	FIELD ENT.	GRAVEL	X				X
35+84	FIELD ENT.	GRAVEL	X				X
38+50	HO# 18433	BIT		X		X	
42+25	HO# 18466	GRAVEL		X			X
43+31	185TH AVE	BIT			X	X	
43+53	FIELD ENT.	GRAVEL	X				X
47+00	HO# 18550	CONCRETE		X			
50+04	PERIDOT ST	BIT			X	X	
51+23	HO# 18600	GRAVEL		X			X
53+55	HO# 18650	GRAVEL		X			X
55+38	HO#18675	GRAVEL		X			X
61+25	HO# 18730	GRAVEL		X			X
61+50		CONCRETE		X			
62+15	HO# 18760	BIT		X		X	
65+34	HO# 18845	GRAVEL		X			X
65+91	HO# 18830	GRAVEL		X			X
69+00	HO# 18834	GRAVEL		X			X
71+21	HO# 18874	GRAVEL		X			X
71+85	189TH AVE	GRAVEL			X		X
75+20	FIELD ENT.	GRAVEL	X				X
76+71	HO# 18960	BIT		X		X	
76+96	HO# 18959	BIT		X		X	
78+71	HO#18954/#18964	GRAVEL		X			X
79+35	HO# 18970	GRAVEL		X			X
83+91	HO# 19047	BIT		X		X	
87+80	HO# 19155 S.	BIT		X		X	
89+34	HO# 19155 N.	GRAVEL		X			X
91+23	191ST LA	GRAVEL			X		
99+00	HO# 19233	BIT		X		X	
102+11		GRAVEL		X			X
103+35	HO# 19285	GRAVEL		X			X
106+38	FIELD ENT.	GRAVEL	X				X
118+15	HO# 19447	GRAVEL		X			X
120+19	CR 163	BIT			X	X	
121+13	HO# 19454	GRAVEL		X			X
122+06		GRAVEL		X			X
122+87	HAPPY COR.	GRAVEL		X			X
123+89		GRAVEL		X			X
124+58	HO# 19550	BIT		X		X	
130+32	HO# 19620	GRAVEL		X			X
130+89	CH# 19653 S.	BIT		X		X	
132+55	CH# 19653 N.	BIT		X		X	
133+23	HO# 19654	CONCRETE		X			
134+95	E. CSAH 22	BIT			X		
135+57	N. CSAH 5	BIT			X		
12+50	HO# 8040	BIT				X	

STATION	DISTANCE	REG.		BAL. TOTALS	
		CUT	FILL	CU.YD.	CU.YD.
11+00.00	25.00	182	49	182	49
11+25.00	25.00	7	47	189	96
11+50.00	25.00	7	45	196	141
11+75.00	25.00	21	31	217	172
12+00.00	25.00	17	9	234	181
12+25.00	25.00	10	19	243	200
12+50.00	25.00	13	35	257	235
12+75.00	25.00	19	28	276	263
13+00.00	25.00	36	20	312	283
13+25.00	25.00	48	15	360	298
13+50.00	25.00	61	13	421	311
13+75.00	25.00	69	12	490	322
14+00.00	25.00	67	9	556	331
14+25.00	50.00	131	8	687	339
14+50.00	25.00	53	1	740	341
14+75.00	50.00	61	1	801	341
15+00.00	25.00	11	0	812	341
15+25.00	25.00	0	0	812	341
15+46.44	3.56	0	0	812	341
15+50.00				812	341
				812	341

EARTHWORK NOTES

COMMON EXCAVATION - 812 C.Y.(E.V.) @ X 0.80% = 650 C.Y.(C.V.),
 SALV. T.S. AVAIL = 232 C.Y.(E.V.) X 0.80% = 186 C.Y.(C.V.) AVAIL.
 COMMON EXC. - 650 C.Y.(C.V.) - 175 C.Y.(C.V.) TOPSOIL REQ'D. =
 475 C.Y.(C.V.) AVAIL. COMMON EXCAVATION.
 REG. EMB. = 341 C.Y.(C.V.) - 475 C.Y.(C.V.) COMMON EXC. =
 134 C.Y.(C.V.) X 130% = 174 C.Y.(L.V.) EXCESS

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 LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: MARK A. DADY
 SIGNATURE: *MAD*
 DATE: 6/27/02 LICENSE NO. 21763

DRAWN BY: KGI DATE 07/08/02
 DESIGN BY: MFG DATE 07/08/02
 CHECKED BY: MAD DATE 07/08/02

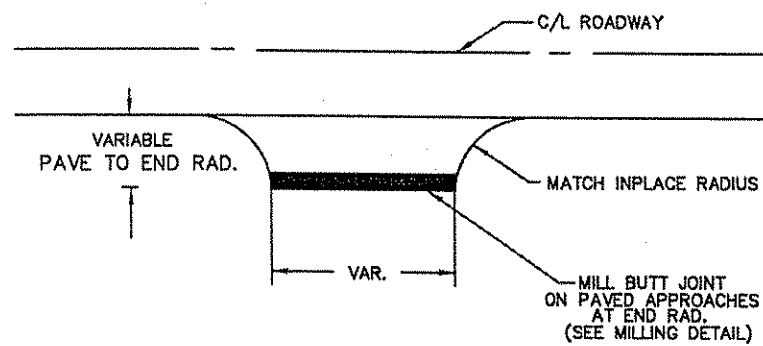


ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. _____
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 COUNTY PROJECT NO. 02-06-05

TABULATION CHARTS
 Sheet 06 of 18 Sheets

PAVED & UNPAVED STREET APPROACHES

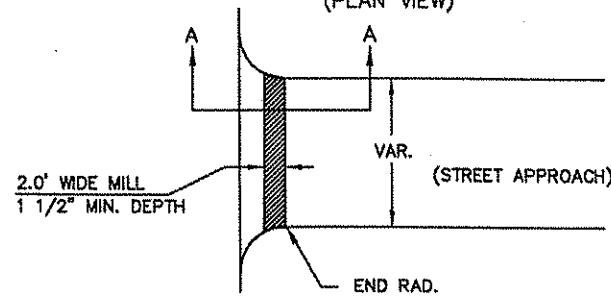


NOTE: PAID FOR AS ITEM NO. 2350.604
(2" THICK BITUMINOUS WEARING COURSE)
* APPROACHES TO BE PAID BY THE SQ YD

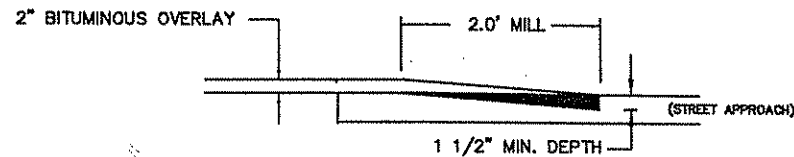
MILLING DETAILS

BUTT JOINTS

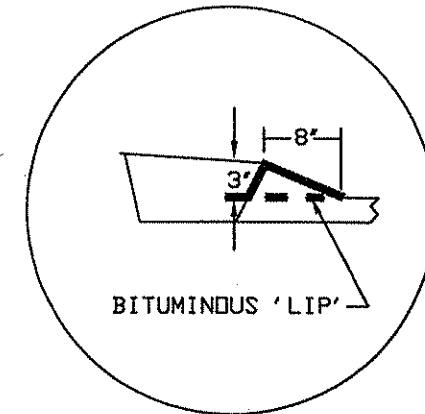
(PLAN VIEW)



(SECTION A-A)



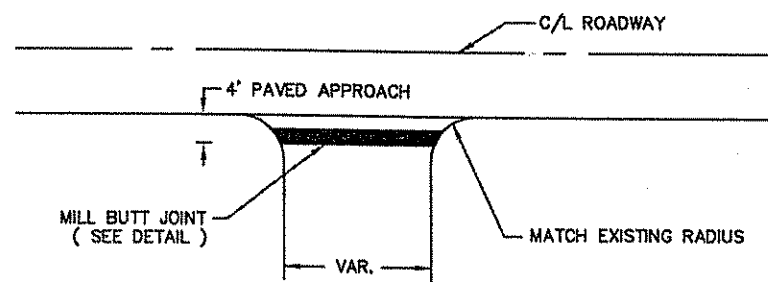
BERM SECTION



- ① EXISTING BITUMINOUS LIP TO BE RECLAIMED WITH SHOULDER
- ② PROPOSED BITUMINOUS LIP TO BE PAID AS BITUMINOUS CURB, ITEM NO. 2535.501

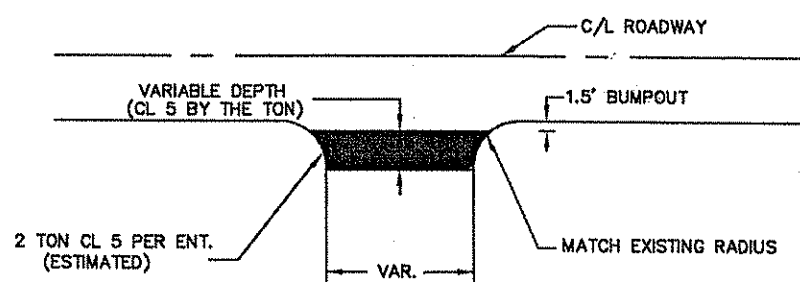
BITUMINOUS CURB			H
STATION	STATION	LOCATION	LENGTH
			FEET
23+20	26+35	LT	315
26+70	27+65	LT	95
76+20	80+40	RT	420
99+75	102+05	RT	290
121+60	122+60	RT	100
130+45	131+45	LT	100
131+60	132+10	LT	50
132+30	133+40	LT	110
TOTAL			1420

PAVED ENTRANCES



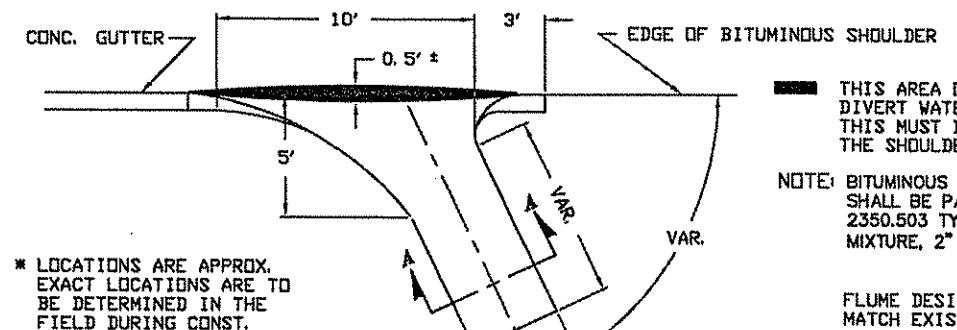
NOTE: PAID FOR AS ITEM NO. 2350.604
(2" THICK BITUMINOUS WEARING COURSE)
* APPROACHES TO BE PAID BY THE TON IF PAVED AS PART OF MAINLINE PAVING
* APPROACHES TO BE PAID BY THE SQ YD IF PAVED AS A SEPARATE OPERATION.

FIELD AND UNPAVED ENTRANCES



NOTE: PAID FOR AS ITEM NO. 2211.501
(AGGREGATE BASE CL 5 (TON))

TYPICAL BITUMINOUS FLUME



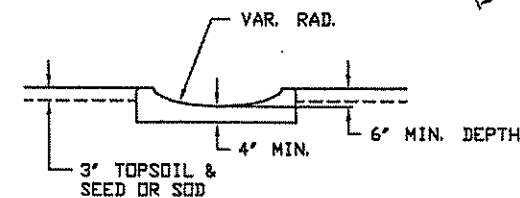
THIS AREA OF INCREASED SLOPE TO DIVERT WATER FLOW INTO FLUME. THIS MUST BE ACCOMPLISHED DURING THE SHOULDER PAVING OPERATION.

NOTE: BITUMINOUS FLUME CONSTRUCTION SHALL BE PAID BY THE SQ YD AS 2350.503 TYPE LV4 WEARING COURSE MIXTURE, 2" THICK.

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.

SECTION A-A



BITUMINOUS FLUME		J
STATION	LOCATION	VOLUME
		SQYD
23+20	LT	5.5
27+65	LT	5.5
76+20	RT	5.5
99+75	RT	5.5
122+60	RT	5.5
131+45	LT	5.5
132+10	LT	5.5
133+40	LT	5.5
TOTAL		44

NO	DATE	BY	CKD	APPR	REVISION
1	6/7/01	TA			LVNW35030B

NAME: P:\02-01-00\02-06-05\plan\04-Typical.dwg 06/25/02 06:51:14 PM CDT

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.

PRINT NAME: MARK A DALY
SIGNATURE: *Mark A Daly*
DATE: 6/27/02 REG. NO. 21763

DRAWN BY: BFL DATE: 06/27/02

DESIGN BY: MFG DATE: 06/27/02

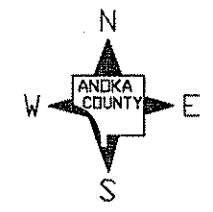
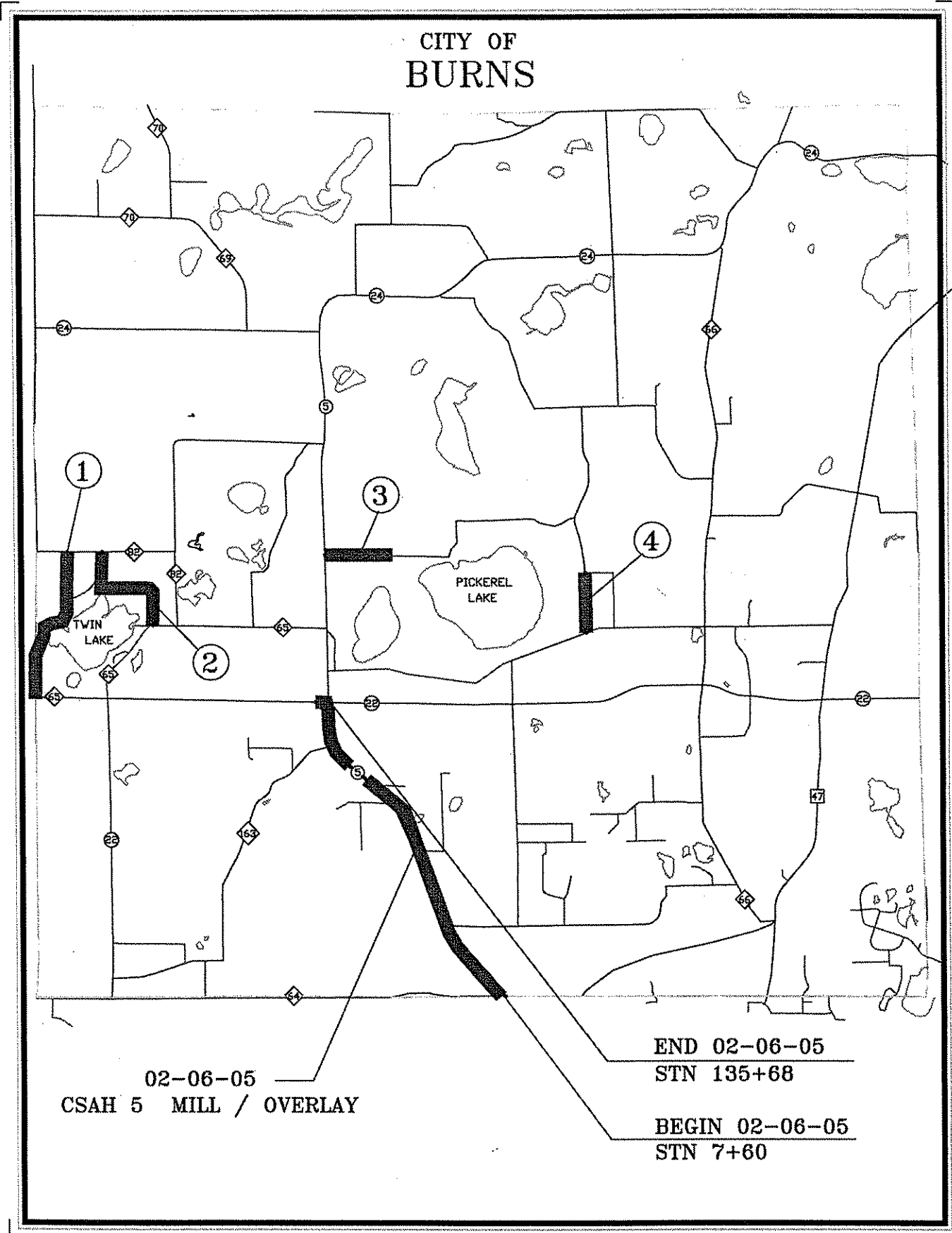
CHECKED BY: MAD DATE: 06/27/02



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
STATE AID PROJECT NO. _____
STATE AID PROJECT NO. _____
COUNTY PROJECT NO. 02-06-05

DETAILS



ROADS FOR BITUMINOUS MILLINGS TO BE
 HAULED TO, AS DIRECTED BY ENGINEER.
 PLACED BY BURNS TOWNSHIP
 (1.5" - 2" IN DEPTH, 22' - 24' WIDE)
 LISTED IN ORDER OF HAUL ROAD PLACEMENT

1. TWIN PARKWAY N.W.
 (FROM CR 65 TO CR 82)
2. BAUGH ST N.W.
 WOLVERINE ST N.W.
 203 RD AVE N.W.
 (FROM CR 65 TO CR 82)
3. 205 TH AVE N.W.
 (FROM CSAH 5 TO 1640' EAST OF CSAH 5)
4. BASALT STREET N.W.
 (FROM OLD VIKING BLVD N.W. TO 204 TH AVE N.W.)

NO	DATE	BY	CKD	APPR	REVISION

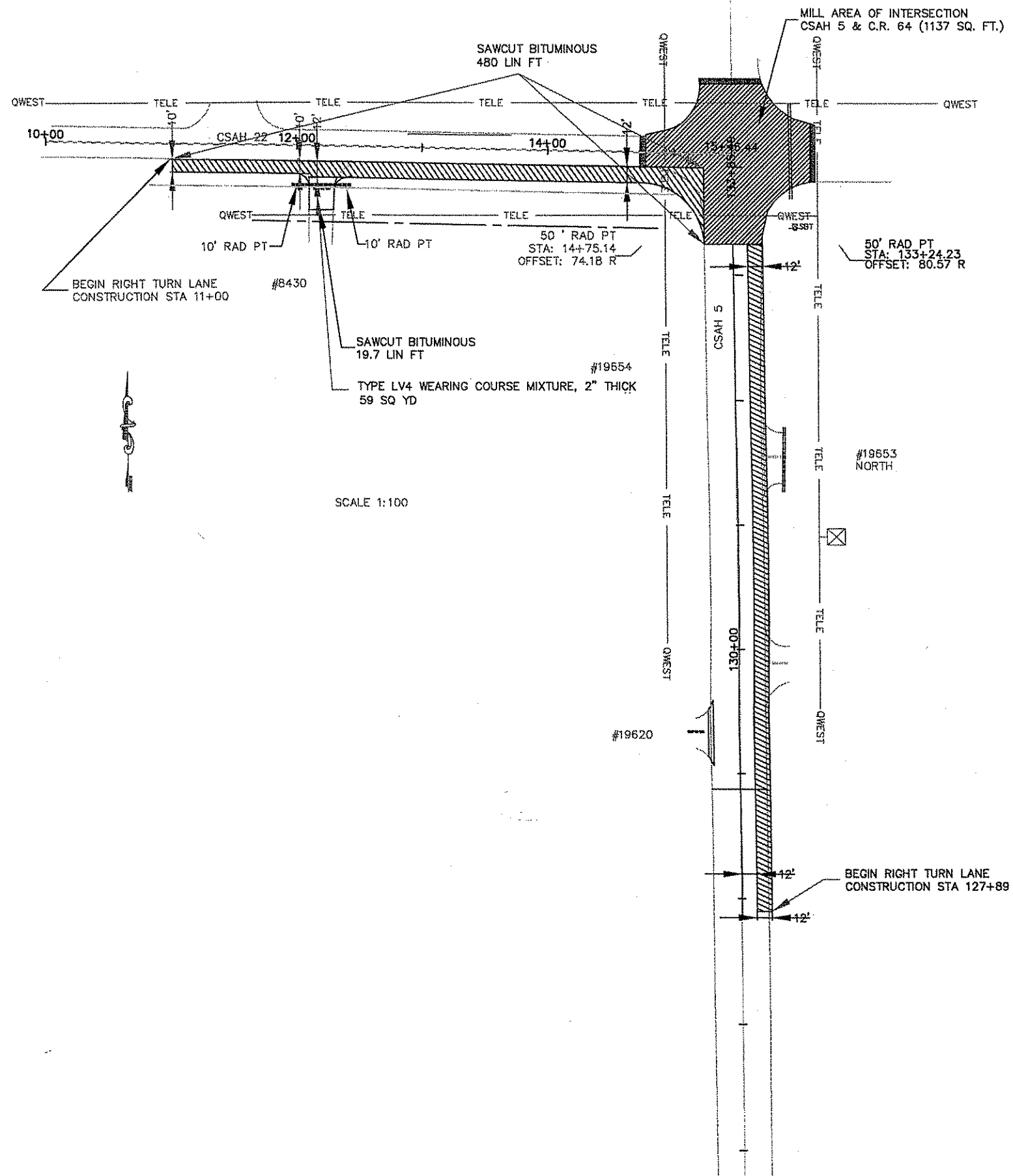
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: MARK A DALY
 SIGNATURE: *Mark A Daly*
 DATE: 06/27/02 LICENSE NO. 21763

DRAWN BY: BFL DATE: 06/27/02
 DESIGN BY: MFG DATE: 06/27/02
 CHECKED BY: MAD DATE: 06/27/02

ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 02-06-05

MILLING PLACEMENT
 MAP
 Sheet 08 of 18 Sheets



SCALE 1:100

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 LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: MARK A DALY
 SIGNATURE: *Mark A Daly*
 DATE: 06/27/02 LICENSE NO. 21763

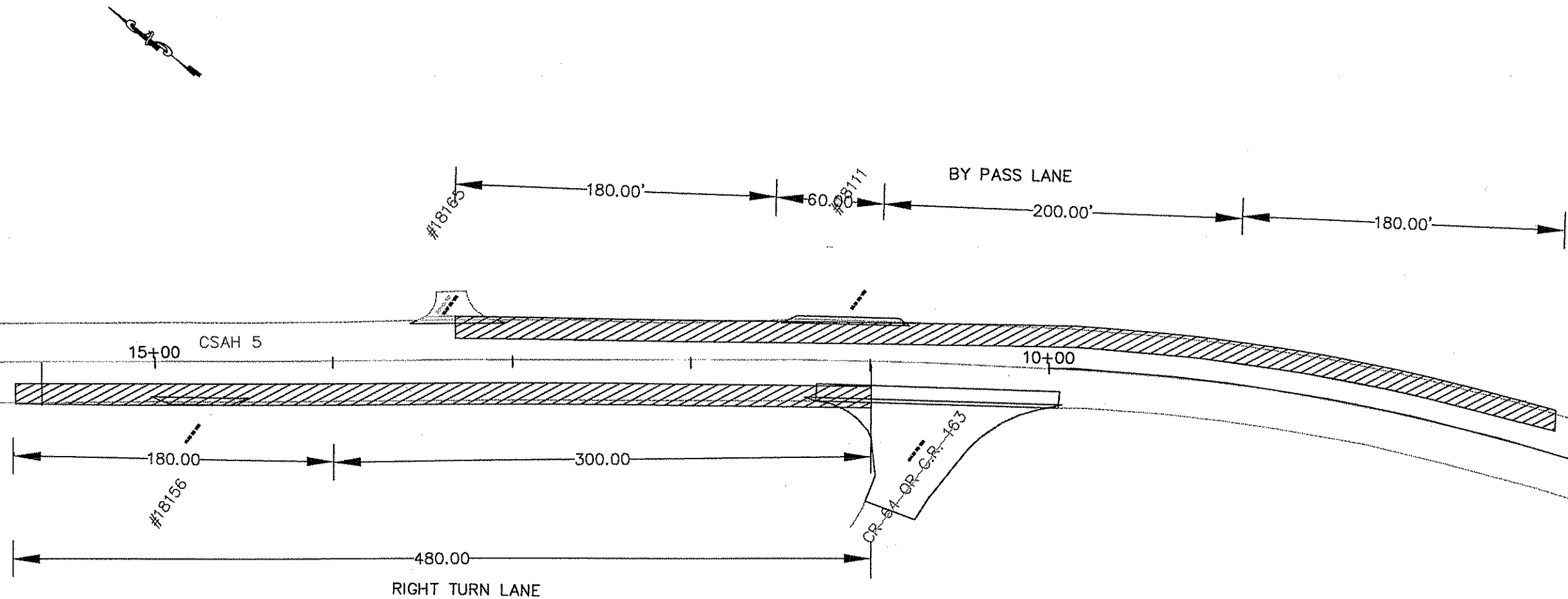
DRAWN BY: BFL DATE 06/27/02
 DESIGN BY: MFG DATE 06/27/02
 CHECKED BY: MAD DATE 06/27/02



**ANOKA COUNTY
HIGHWAY DEPT.**


STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 02-01-00
 COUNTY PROJECT NO. 02-06-05

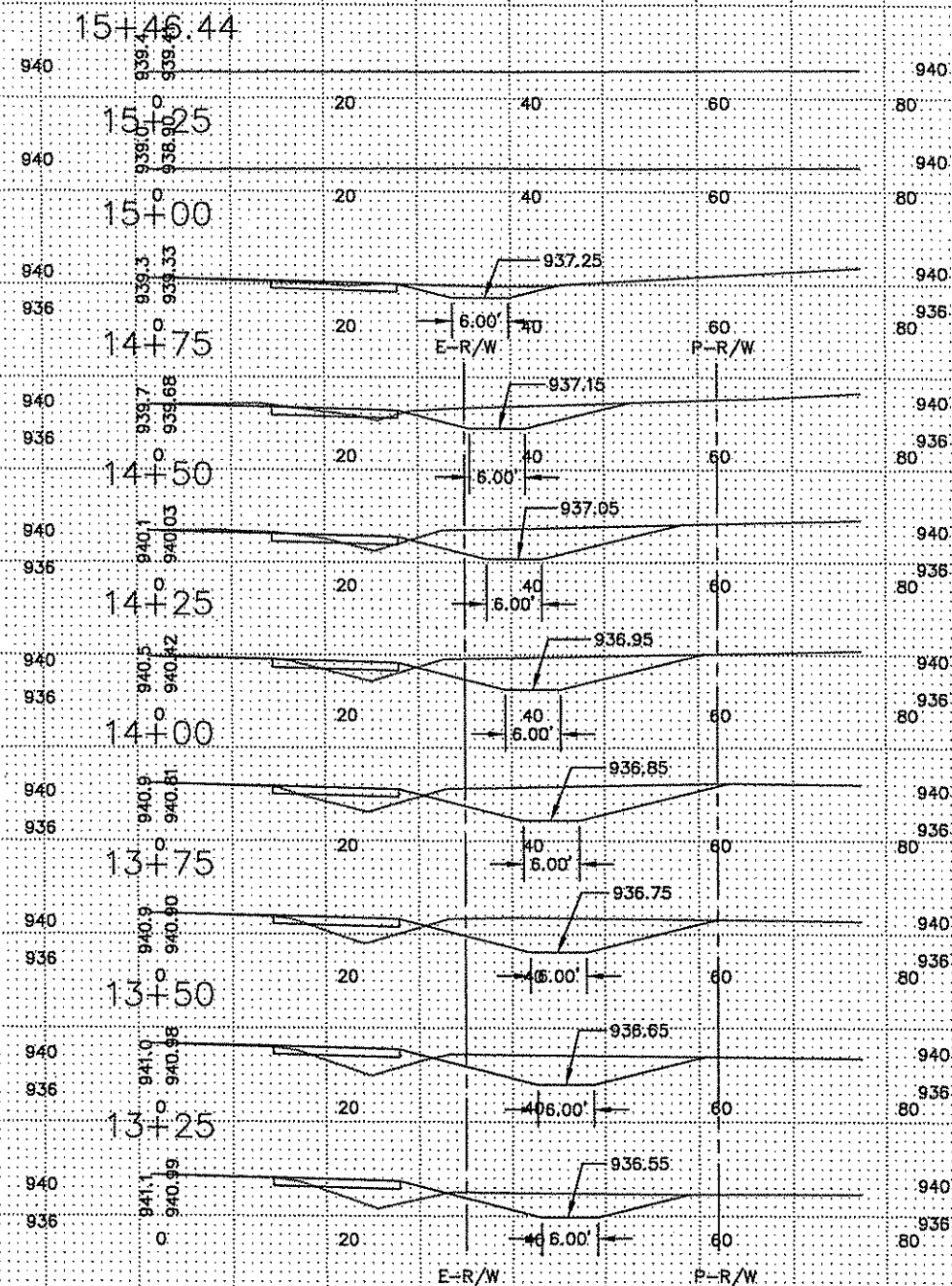
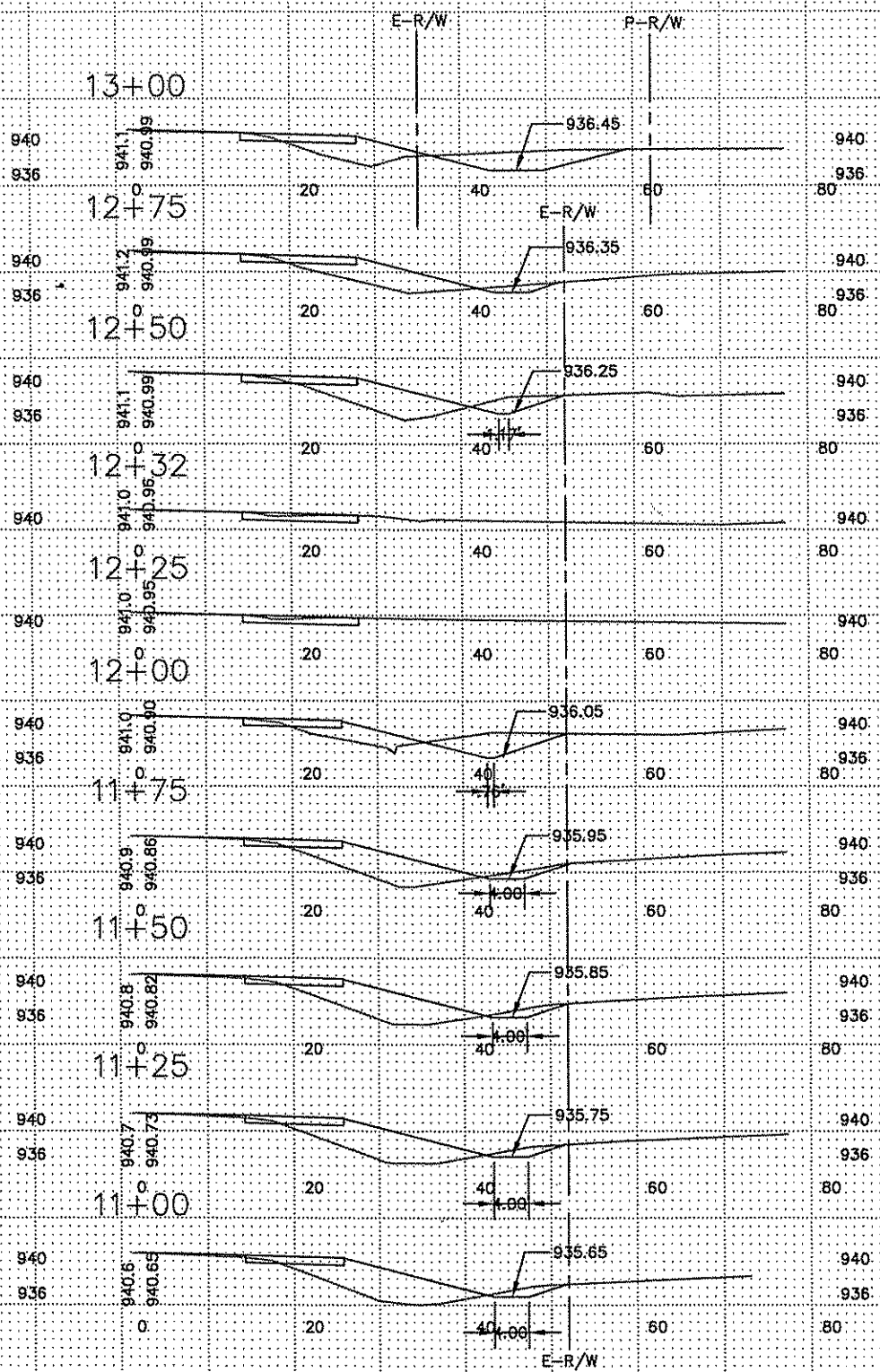
**RIGHT TURN LANE
CSAH 22 & CSAH 5
DETAIL**
 Sheet 09 of 18 Sheets



NOTE: NOT TO SCALE

TYPICAL RIGHT TURN LANE & BY PASS LANE CONSTRUCTION
 CONSTRUCT 12' BY 480' RTL SB CSAH 5 AT CR 64 NB CSAH 5 AT CR 163 ,NB CSAH 5 AT CSAH 22
 CONSTRUCT 12' BY 620' BYPASS NB CSAH 5 AT CR 64 AND NB CSAH 5 AT CR 163

					I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINT NAME: <u>MARK A DALY</u> SIGNATURE: <u><i>MAD</i></u> DATE: <u>06/27/02</u> LICENSE NO. <u>21763</u>		DRAWN BY: <u>BFL</u> DATE <u>06/27/02</u> DESIGN BY: <u>MFG</u> DATE <u>06/27/02</u> CHECKED BY: <u>MAD</u> DATE <u>06/27/02</u>		 ANOKA COUNTY HIGHWAY DEPT.		STATE PROJECT NO. _____ STATE AID PROJECT NO. _____ STATE AID PROJECT NO. _____ COUNTY PROJECT NO. <u>02-06-05</u>		RTL & BYPASS DETAIL C.R. 64 & C.R. 163 Sheet <u>10</u> of <u>18</u> Sheets	
NO	DATE	BY	CKD	APPR	REVISION									
NAME: S:\SDSK\PROJ\000000\000000\026000.DWG														



NO	DATE	BY	CKD	APPR	REVISION

NAME: S:\SDRCP\01\000000\000000\028000.DWG

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

PRINT NAME: MARK DALY
 SIGNATURE: *MDALY*
 DATE: 06/27/02 LICENSE NO. 21763

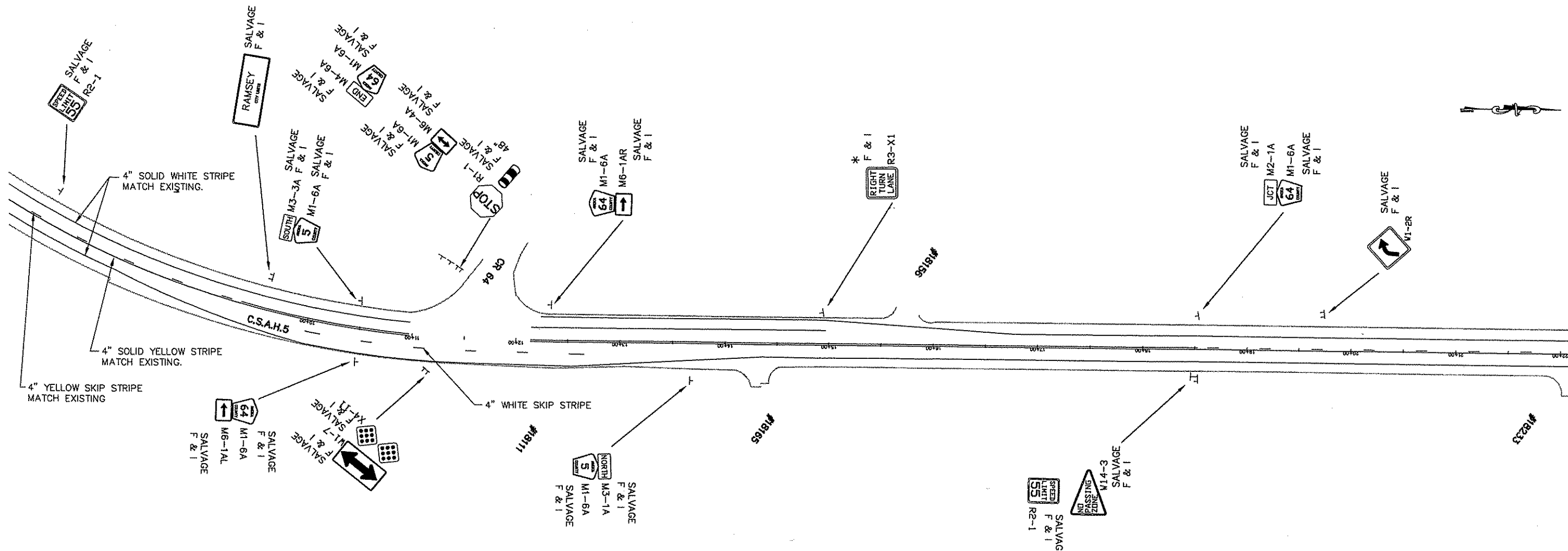
DRAWN BY: BFL DATE 06/27/02
 DESIGN BY: MFG DATE 06/27/02
 CHECKED BY: MAD DATE 06/27/02



ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 02-06-05

CROSS SECTIONS
 STA 10+00 TO 15+46.44
 Sheet 11 of 18 Sheets

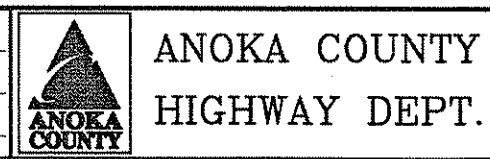


C.S.A.H. 5 NOWTHEN BLVD.
FROM C.R. 64 TO C.S.A.H. 22

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.
 PRINT NAME: MARIS A Daly
 SIGNATURE: [Signature]
 DATE: 6/27/02 REG. NO. 21763

DRAWN BY: DM DATE: 07/3/02
 DESIGN BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____



STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 02-06-05

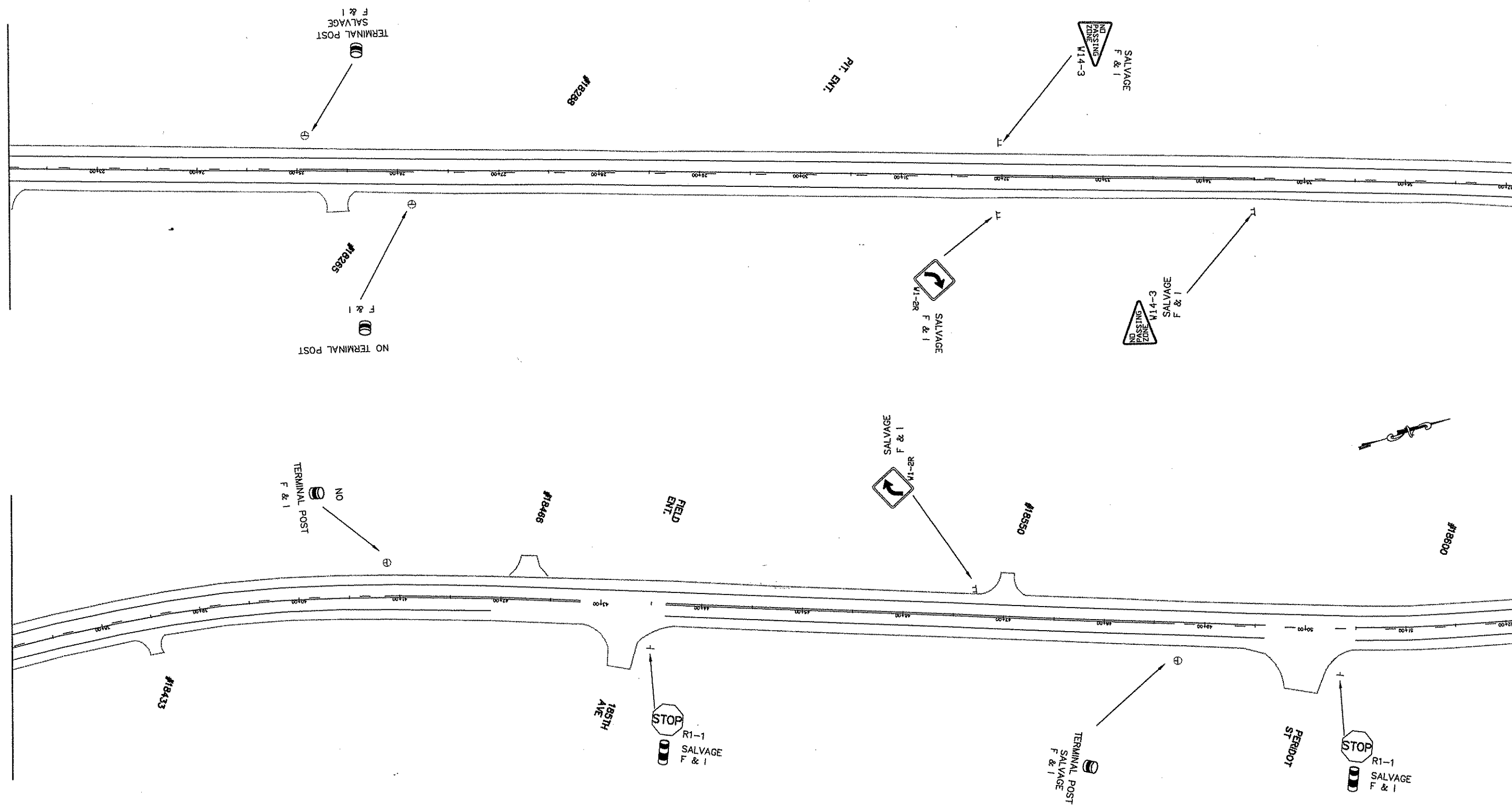
PERMANENT SIGN / STRIPE
 Sheet 12 of 18 Sheets

MATCHLINE 'A' SEE SHEET 1 OF 7

MATCHLINE 'B' SEE ABOVE RIGHT

MATCHLINE 'B' SEE BELOW LEFT

MATCHLINE 'C' SEE SHEET 3 OF 7

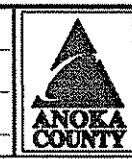


C.S.A.H. 5 NOWTHEN BLVD.
FROM C.R. 64 TO C.S.A.H. 22

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.
 PRINT NAME: ADL
 SIGNATURE: [Signature]
 DATE: 6/7/02 REG. NO. 21763

DRAWN BY: DM DATE: 07/3/02
 DESIGN BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 02-06-05

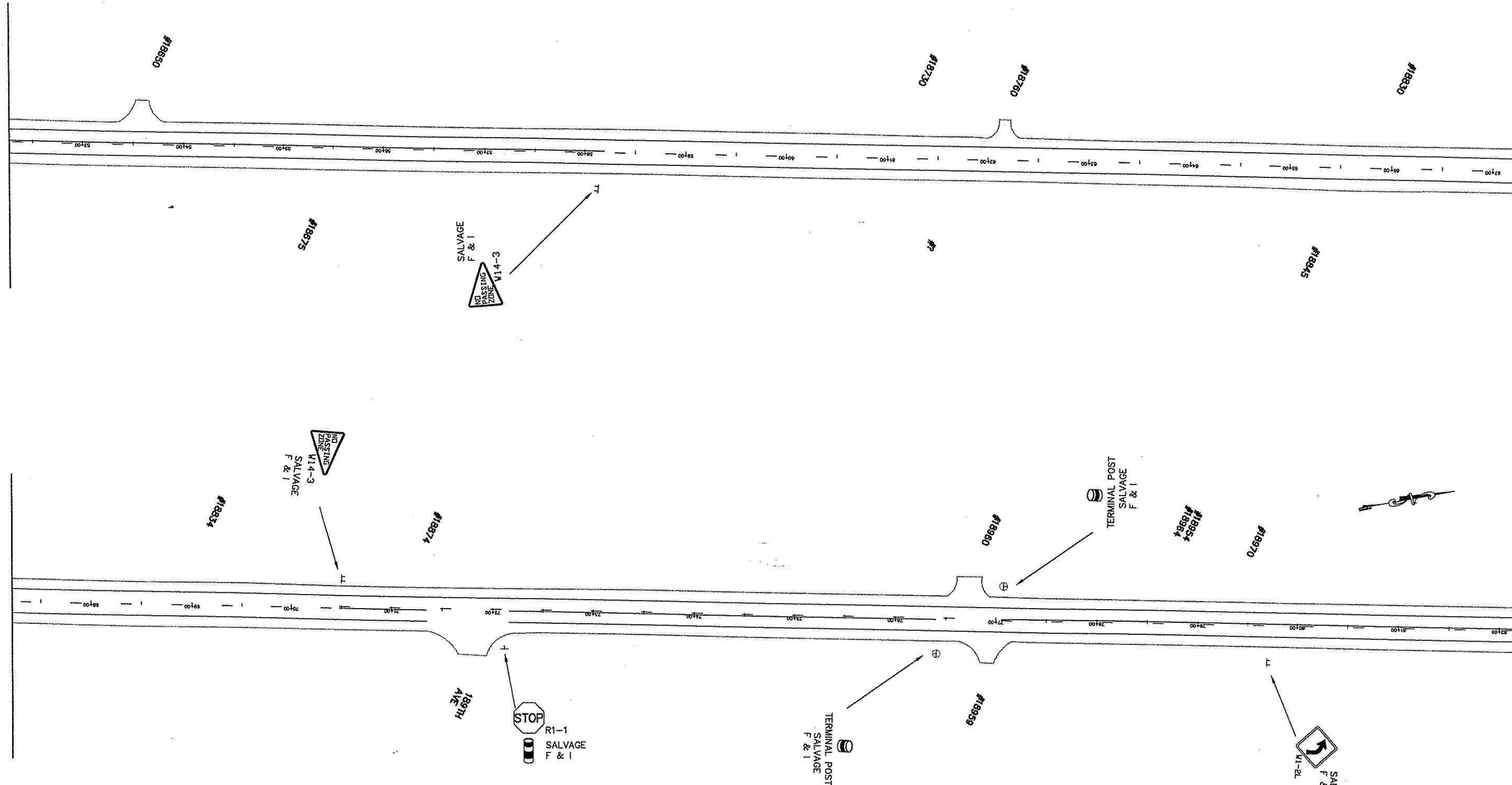
PERMANENT SIGN / STRIPE
 Sheet 13 of 18 Sheets

MATCHLINE 'C' SEE SHEET 1 of X

MATCHLINE 'D' SEE ABOVE RIGHT

MATCHLINE 'D' SEE BELOW LEFT

MATCHLINE 'E' SEE SHEET 4 of 7



C.S.A.H. 5 NOWTHEN BLVD.
 FROM C.R. 64 TO C.S.A.H. 22

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.

PRINT NAME: MR. ADG

SIGNATURE: [Signature]

DATE: 6/27/02 REG. NO. 21763

DRAWN BY: DM DATE: 07/3/02

DESIGN BY: _____ DATE: _____

CHECKED BY: _____ DATE: _____

ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____

STATE AID PROJECT NO. _____

STATE AID PROJECT NO. _____

COUNTY PROJECT NO. 02-06-05

PERMANENT
SIGN / STRIPE

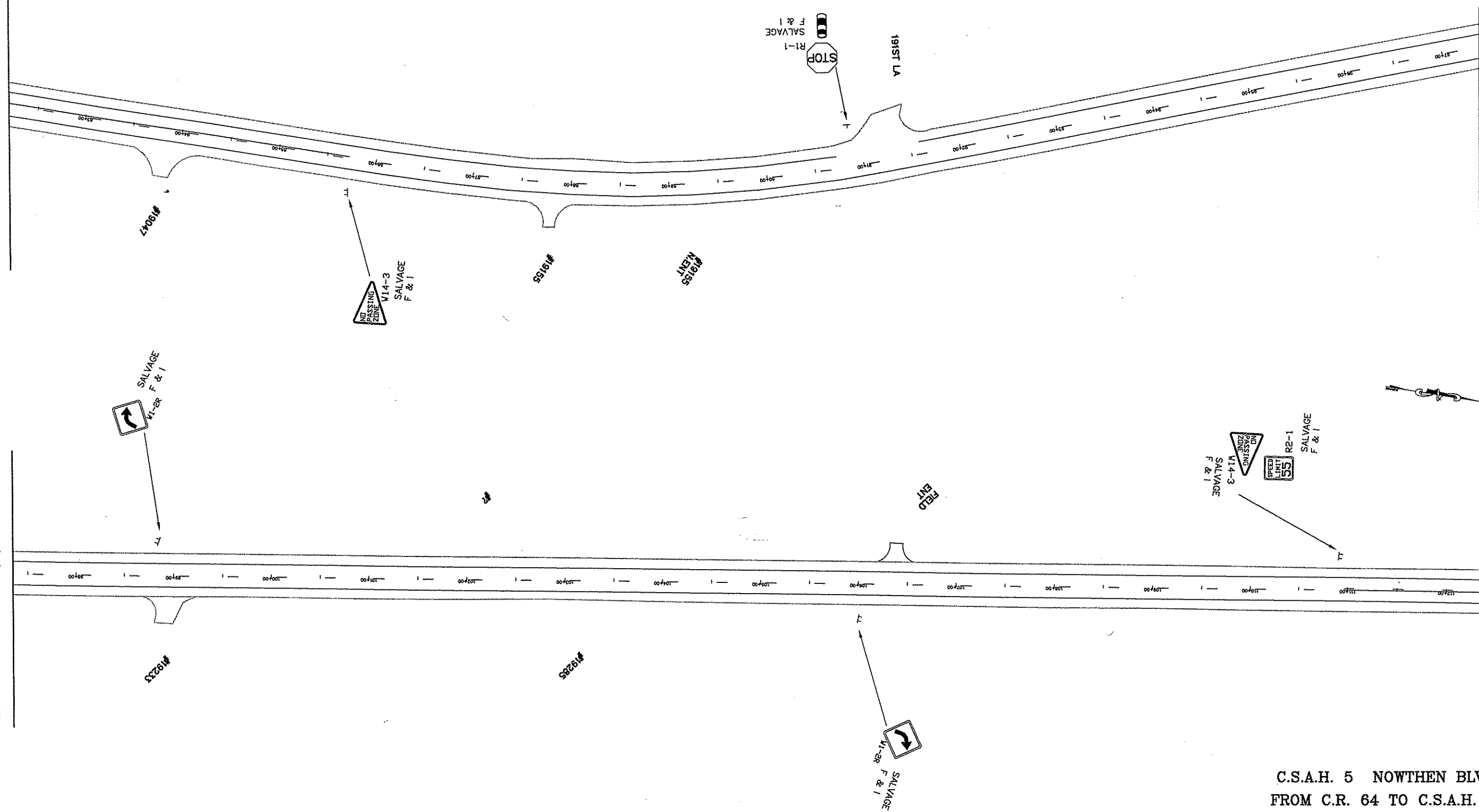
Sheet 14 of 18 Sheets

MATCHLINE 'E' SEE SHEET 5 of 7

MATCHLINE 'F' SEE ABOVE RIGHT

MATCHLINE 'F' SEE BELOW LEFT

MATCHLINE 'G' SEE SHEET 5 of 7



C.S.A.H. 5 NOWTHEN BLVD.
FROM C.R. 64 TO C.S.A.H. 22

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

PRINT NAME: MARK ADY

SIGNATURE: [Signature]

DATE: 6/27/02 REG. NO. 21763

DRAWN BY: DM DATE: 07/3/02

DESIGN BY: _____ DATE: _____

CHECKED BY: _____ DATE: _____



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____

STATE AID PROJECT NO. _____

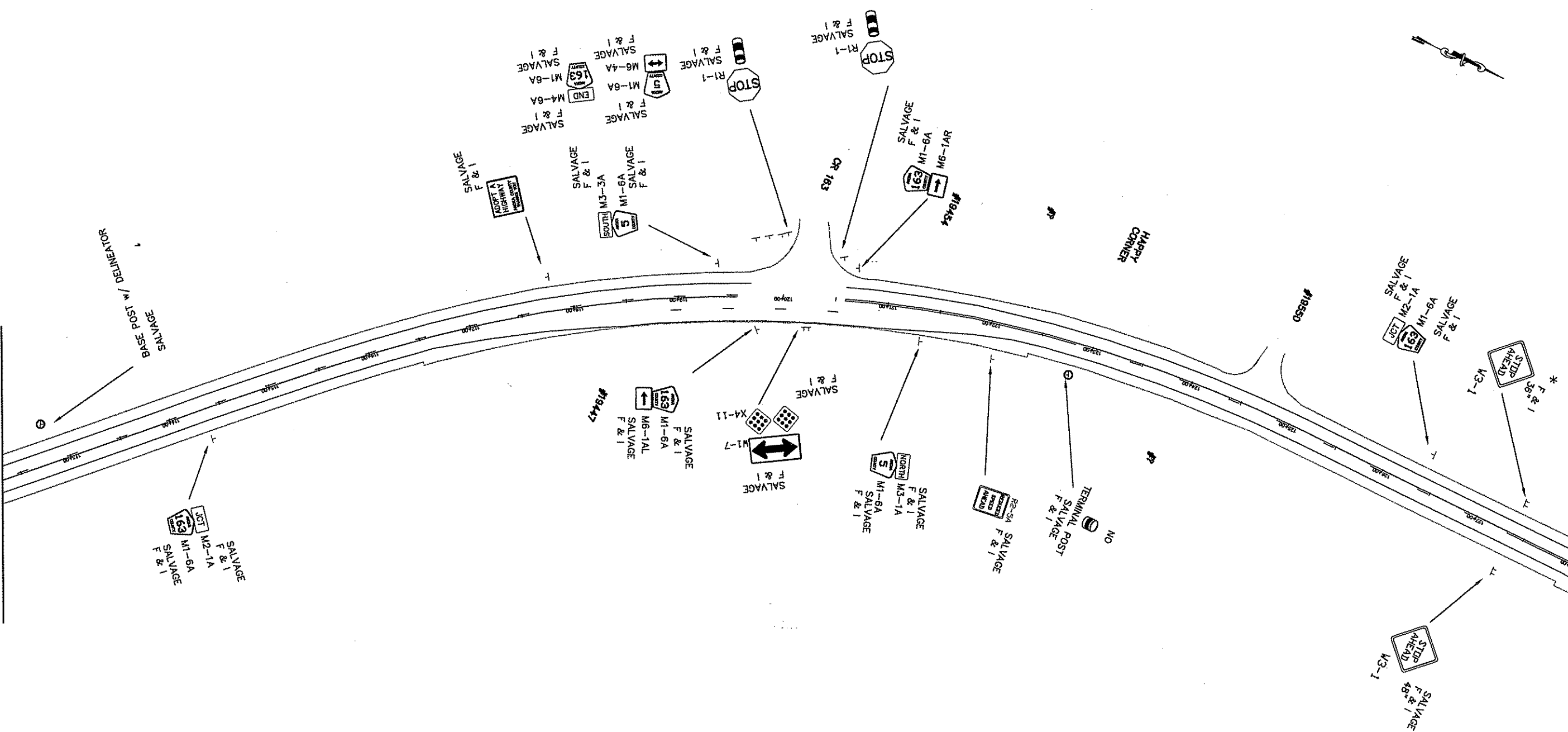
STATE AID PROJECT NO. _____

COUNTY PROJECT NO. 02-06-05

PERMANENT
SIGN / STRIPE

Sheet 15 of 18 Sheets

MATCHLINE 'H' SEE SHEET 4 of 7



MATCHLINE 'J' SEE SHEET 6 of 7

C.S.A.H. 5 NOWTHEN BLVD.
FROM C.R. 64 TO C.S.A.H. 22

NO	DATE	BY	CHK	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.
 PRINT NAME: *MARK ADY*
 SIGNATURE: *MARK ADY*
 DATE: *6/27/02* REG. NO. *21763*

DRAWN BY: DM DATE: 07/3/02
 DESIGN BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____

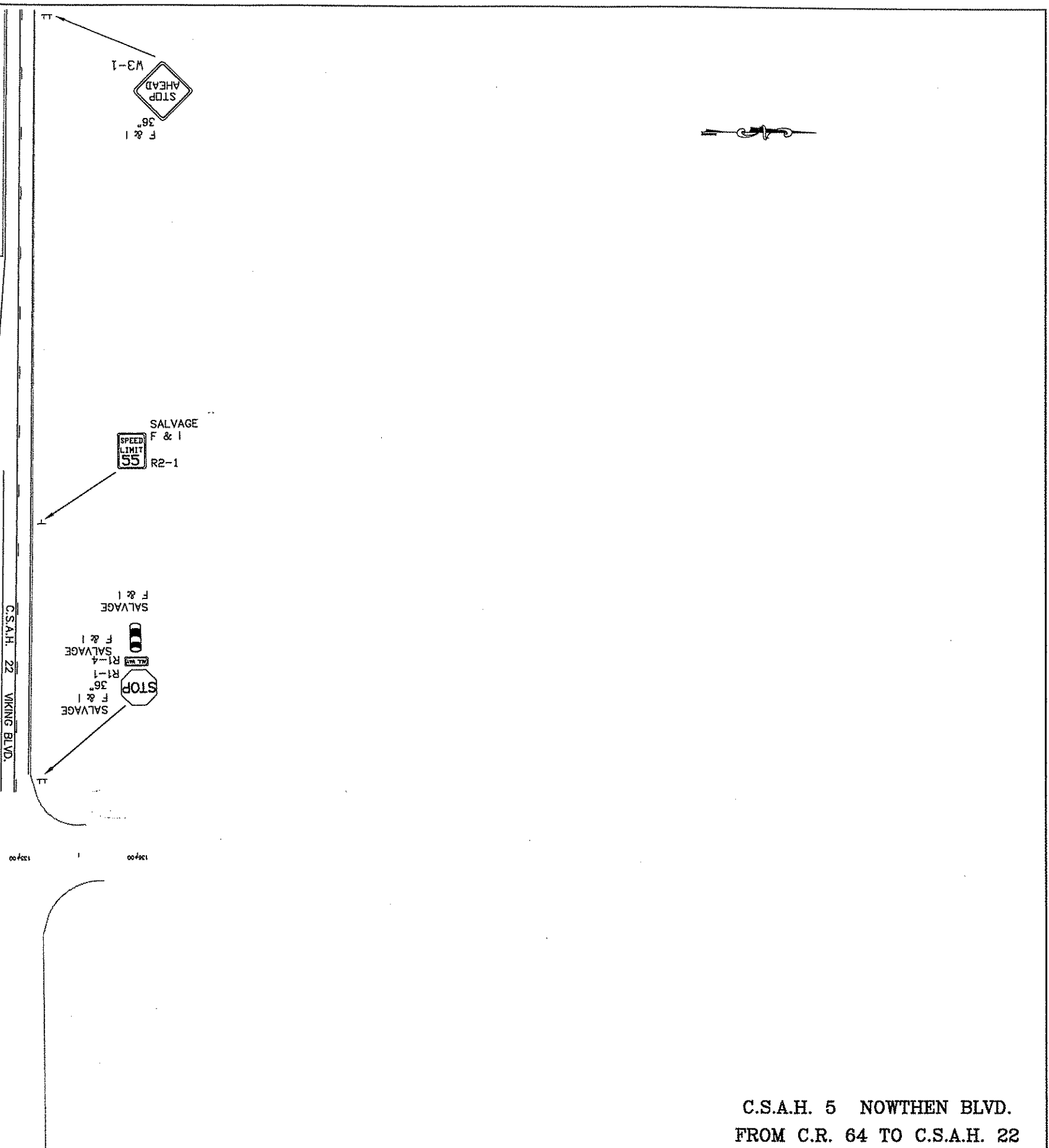
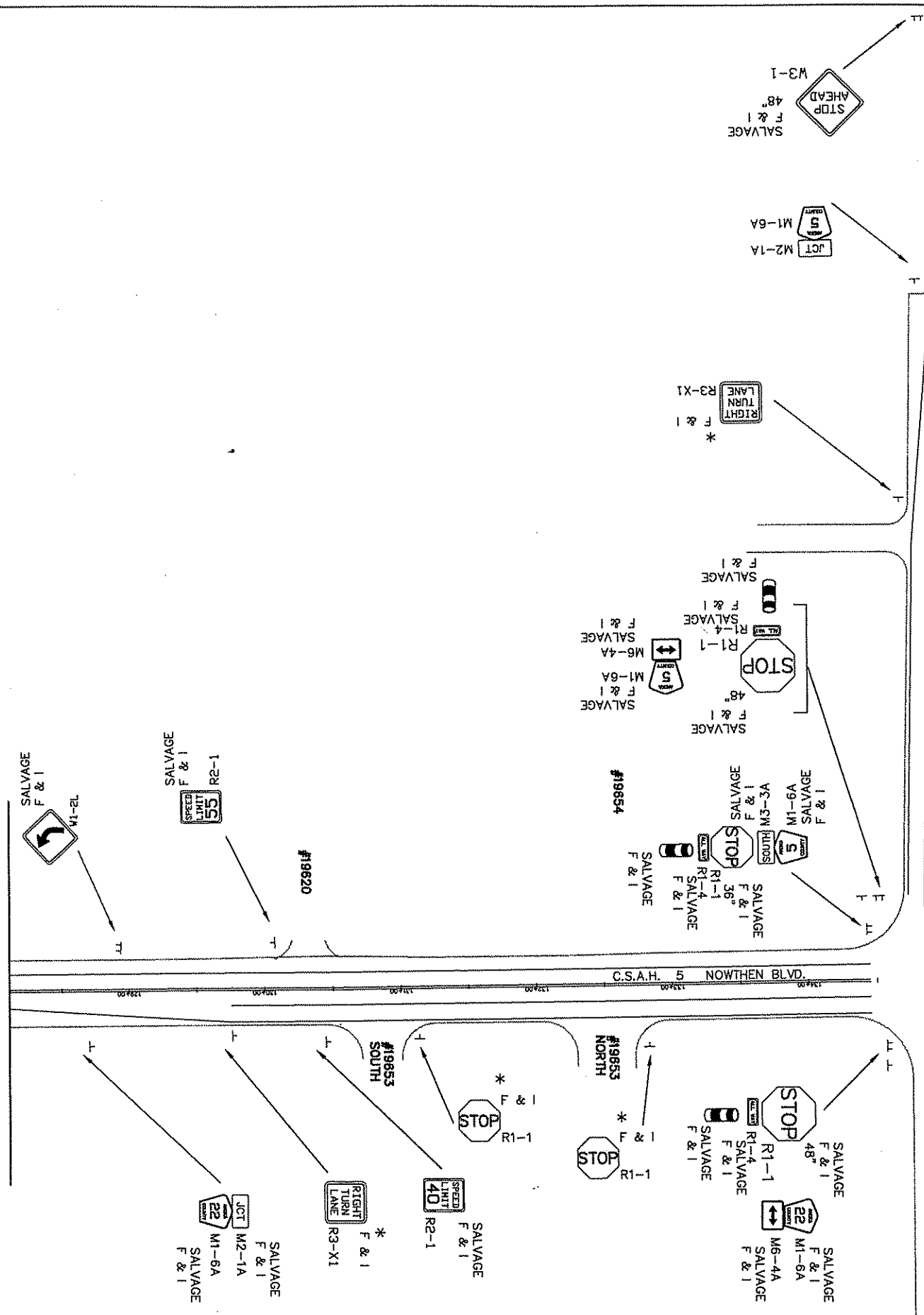
ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. **02-06-05**

PERMANENT
 SIGN / STRIPE
 Sheet **16** of **18** Sheets



MATCHLINE 'J' SEE SHEET 5 of 7



C.S.A.H. 5 NOWTHEN BLVD.
FROM C.R. 64 TO C.S.A.H. 22

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.

PRINT NAME: *M. J. ADAMS*

SIGNATURE: *[Signature]*

DATE: *6/27/02* REG. NO. *21763*

DRAWN BY: *DM* DATE: *07/3/02*

DESIGN BY: _____ DATE: _____

CHECKED BY: _____ DATE: _____



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____

STATE AID PROJECT NO. _____

STATE AID PROJECT NO. _____

COUNTY PROJECT NO. 02-06-05

PERMANENT
SIGN / STRIPE

Sheet 17 of 18 Sheets

M. U. T. C. D. CODE	SIZE	INSERT	QTY	SQ. FT.	TOTAL SQ. FT.	MOUNTING POST PER INSTALLATION	MOUNTING HEIGHT
R1-1	30" x 30"		8	6.25	86.25	1	7.0
R1-1	36" x 36"	STOP	2	9.00	18.00	2	7.0
R1-1	48" x 48"	STOP	3	16.00	48.00	2	7.0
R1-4	18" x 6"	ALL WAY	4	.75	3.00	①	
DELINEATOR	4"DIA x 15"		13	0.87	11.31	②	
R2-1	30" x 24"	SPEED LIMIT 55	4	5.00	20.00	③	7.0
R2-1	30" x 24"	SPEED LIMIT 40	1	5.00	5.00	1	7.0
R3-X1	30" x 30"	RIGHT TURN LANE	3	6.25	18.75	1	7.0
W1-2R	36" x 36"	RIGHT TURN	5	9.00	45.00	2	7.0
W1-2L	36" x 36"	LEFT TURN	2	9.00	18.00	1	7.0
W3-1	36" x 36"	STOP AHEAD	2	9.00	18.00	2	7.0
W3-1	48" x 48"	STOP AHEAD	2	16.00	32.00	2	7.0
W14-3	36"x48"x48"	NO PASSING ZONE	7	6.00	35.00	2	7.0
W1-7	48" x 24"	NO PASSING ZONE	2	8.00	16.00	2	7.0
X4-11	18" x 18"		4	2.25	9.00		
SUB-TOTAL					383.31		

M. U. T. C. D. CODE	SIZE	INSERT	QTY	SQ. FT.	TOTAL SQ. FT.	MOUNTING POST PER INSTALLATION	MOUNTING HEIGHT
ADOPT	30" x 24"	ADOPT A HIGHWAY ANOKA COUNTY THANKS YOU	2	5.00	10.00	1	7.0
CITY	60" x 24"	RAMSEY CITY LIMITS	1	10.00	10.00	2	7.0
TERMINAL	4"DIA x 4"		8	0.35	2.80	1	5.0
JCT	21" x 15"	JCT M2-1A	1	2.20	2.20		
	24" x 12"	NORTH M3-1A	2	2.00	4.00		
M1-6A	24" x 24"	SOUTH M3-3A	3	2.00	6.00	④	7.0
	21" x 15"	ANOKA COUNTY 5	9	4.00	36.00	1	
		M6-4A	3	2.20	6.60		
JCT	21" x 15"	JCT M2-1A	1	2.20	2.20		
	24" x 12"	END M4-6A	1	2.00	2.00		
M1-6A	24" x 24"	ANOKA COUNTY 64	4	4.00	16.00	1	7.0
	21" x 15"	M6-1AR	1	2.20	2.20		
		M6-1AL	1	2.20	2.20		
JCT	21" x 15"	JCT M2-1A	2	2.20	4.40		
	24" x 12"	END M4-6A	1	2.00	4.00		
M1-6A	24" x 24"	ANOKA COUNTY 163	5	4.00	20.00	1	7.0
	21" x 15"	M6-1AR	1	2.20	2.20		
		M6-1AL	1	2.20	2.20		

SUB-TOTAL (COLUMN 2)	135.00
SUB-TOTAL (COLUMN 1)	383.31
TOTAL	518.31

THE KRUSCHKE FAMILY

- ① MOUNTED BELOW R1-1
- ② MOUNTED BELOW R1-1
- ③ 2 MOUNTED BACK/BACK w/ W14-3
- ④ MOUNTED BACK/BACK w/ R1-1

- 1> LOCATIONS OF NO PASSING ZONES ARE APPROXIMATE EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD.
- 2> ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE FIELD MANUAL DATED JANUARY, 2001

C.S.A.H. 5 NOWTHEN BLVD.
FROM C.R. 64 TO C.S.A.H. 22

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.
PRINT NAME: *W. J. ADK*
SIGNATURE: *[Signature]*
DATE: *6/27/02* REG. NO. *21763*

DRAWN BY: *DM* DATE: *02/24/02*
DESIGN BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
STATE AID PROJECT NO. _____
STATE AID PROJECT NO. _____
COUNTY PROJECT NO. *02-06-05*

PERMANENT
SIGN QUANTITIES

Sheet *18* of *18* Sheets

PLAN SYMBOLS

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

- LOWLAND.....
- TIMBER.....
- ORCHARD.....
- BRUSH.....
- NURSERY.....

- CATTLE GUARD.....

- OVERPASS (Highway Over).....

- UNDERPASS (Highway Under).....

- BRIDGE.....

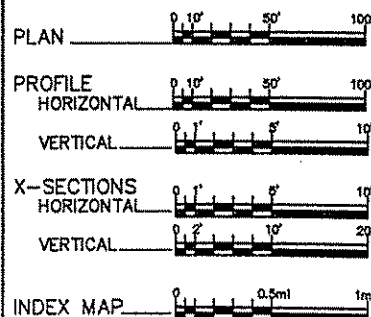
- BUILDING (One Story Frame).....
- F-FRAME C-CONCRETE
- S-STONE T-TILE
- B-BRICK ST-STUCCO

- 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



MINNESOTA DEPARTMENT OF TRANSPORTATION

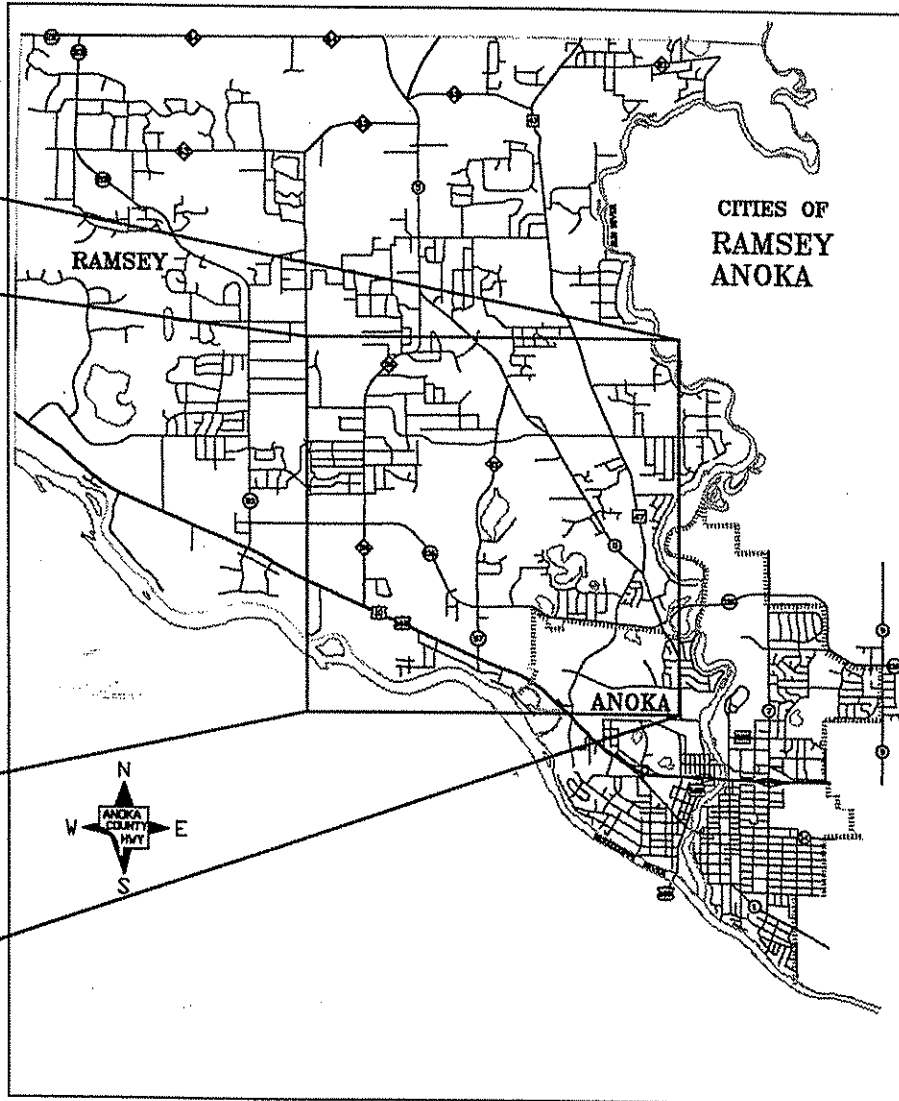
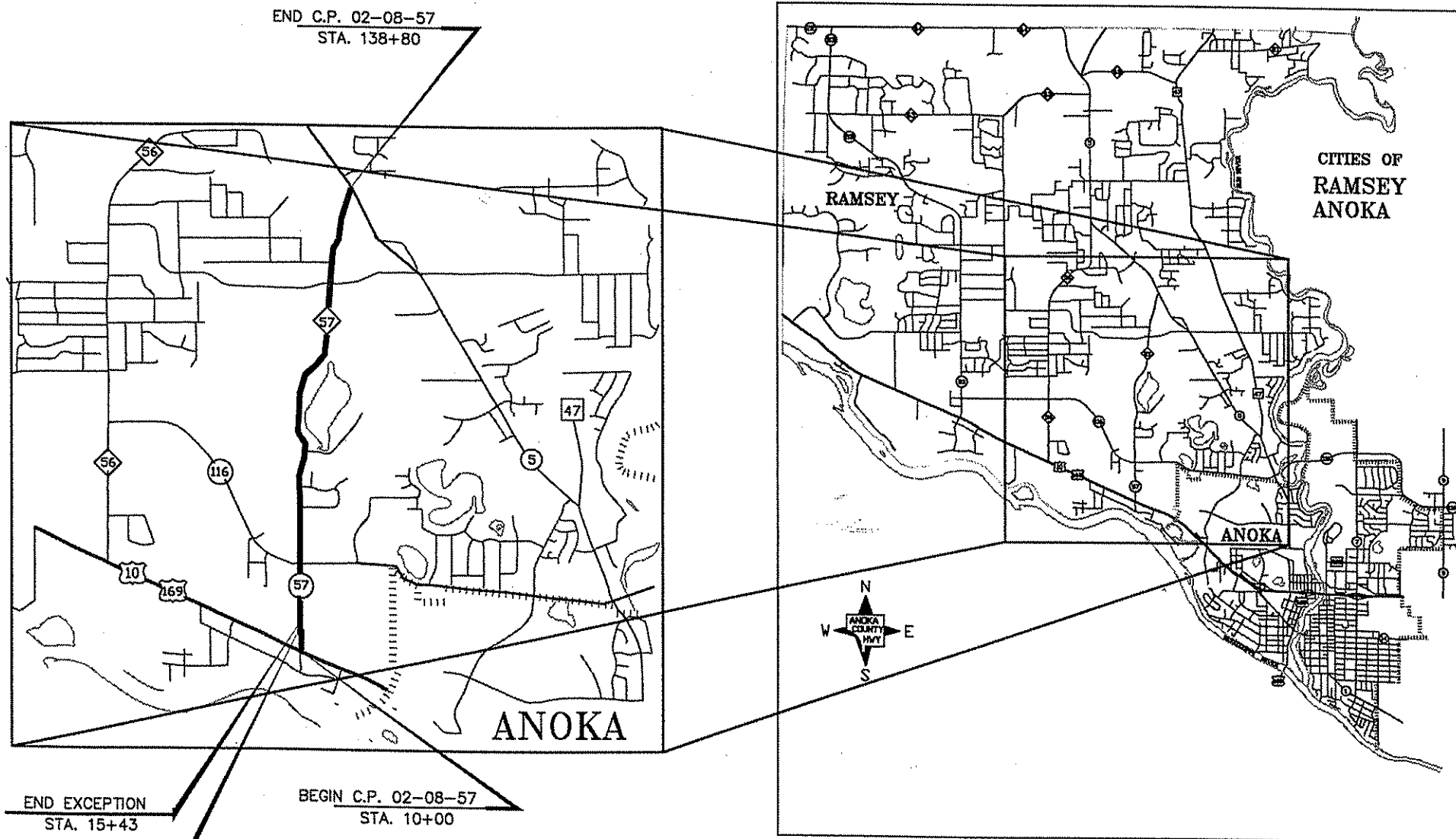
ANOKA COUNTY

CONSTRUCTION PLAN FOR BITUMINOUS MILLING, BITUMINOUS RECLAIMING, BITUMINOUS SURFACING

LOCATED ON CR 57 FROM TH 10 TO C.S.A.H. 5 (Geographic Description)

COUNTY PROJECT NO. 02-08-57
CR 57

GROSS LENGTH	<u>12,880</u> FEET	<u>2.44</u> MILES
BRIDGES-LENGTH	<u>0.000</u> FEET	<u>0.000</u> MILES
EXCEPTIONS-LENGTH	<u>30</u> FEET	<u>0.005</u> MILES
NET LENGTH	<u>12,850</u> FEET	<u>2.44</u> MILES



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

GOVERNING SPECIFICATIONS

THE 2000 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MMUTCD, INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS - JANUARY, 2001."

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES
3 - 4	TYPICAL SECTIONS
5 - 7	TABULATION CHARTS
8	DETAILS
9	EARTHWORK / SUPER CHART
10 - 13	PLAN AND PROFILE
14 - 18	CROSS-SECTIONS
19 - 24	SIGNING AND STRIPING

THIS PLAN CONTAINS 24 SHEETS

DESIGN DESIGNATION

ESAL ₂₀	<u>1,383,749</u>
R VALUE	<u>50</u>
ADT (2002) =	<u>6438</u>
Proj. ADT (2021) =	<u>10,301</u>
Proj. HCADT (2021) =	<u>608</u>
Soil Factor	<u>NA</u>
<u>10</u> TON DESIGN	

Functional Classification MINOR
 No. of Traffic Lanes 2 No. of Parking Lanes 0
 Design Speed 55 MPH
 Based on Stopping Sight Distance
 Height of eye 3.5' Height of object 0.5'
 Design Speed not achieved at:
 STA. _____ TO STA. _____ MPH
 STA. _____ TO STA. _____ MPH
 STA. _____ TO STA. _____ MPH

Approved 7/9 2002
ANOKA COUNTY ENGINEER

Approved 7/9 2002
CITY OF RAMSEY

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

PRINT NAME: PETER M. LENKE
SIGNATURE:
DATE: 07/03/02 LICENSE NO. 40118

DRAWN BY: BEL DATE 06/27/02
DESIGN BY: MFG DATE 06/27/02
CHECKED BY: PML DATE 07/03/02



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
STATE AID PROJECT NO. _____
STATE AID PROJECT NO. _____
COUNTY PROJECT NO. 02-08-57

TITLE SHEET

Sheet 01 of 24 Sheets

NO	DATE	BY	CHK	APPR	REVISION
<u>1</u>	<u>7/23/02</u>	<u>KGT</u>	<u>MAD</u>		<u>REVISED SHEET NOS. 14-18</u>

NAME: S:\SDSR\PROJ\02-000-00\PLAN\01-TITLE.DWG

STATEMENT OF ESTIMATED QUANTITIES

TAB/ NOTE NO.	ITEM NUMBER	ITEM	UNIT	TOTAL CONTRACT QUANTITY
	2021.601	RR PROTECTIVE LIABILITY INSURANCE	LUMP SUM	1
	2021.610	RAILROAD PROTECTIVE SERVICES	HOUR	12
Q	2101.502	CLEARING	TREE	6
Q	2101.507	GRUBBING	TREE	15
1	2104.501	REMOVE CM PIPE	LIN FT	36
2, 24	2104.505	REMOVE BITUMINOUS PAVEMENT	SQ YD	138
3	2104.505	REMOVE CONCRETE PAVEMENT	SQ YD	83
2 G	2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	172
3 J	2104.513	SAWING CONCRETE, FULL DEPTH	LIN FT	75
4	2104.523	SALVAGE SIGN, TYPE C	EACH	89
25	2104.523	SALVAGE SIGN TYPE SPECIAL	EACH	1
	2105.501	COMMON EXCAVATION (EV) (P)	CU YD	645
26	2105.525	TOPSOIL BORROW (LV)	CU YD	386
	2105.521	SELECT GRANULAR BORROW (LV)	CU YD	1880
6, 7	2105.601	SALVAGE, STOCKPILE & PLACE RECLAIMED BIT. MATERIAL (LV)	CU YD	79
8	2123.503	MOTOR GRADER	HOUR	10
9	2123.509	DOZER	HOUR	10
11	2123.525	8 TON STEEL-WHEELED ROLLER	HOUR	10
13	2130.501	WATER	MGAL	220
14 F, K	2211.501	AGGREGATE BASE CL-5	TON	2516
L	2221.501	AGGREGATE SHOULDERING CLASS 1	TON	890
E	2332.501	MILL BITUMINOUS SURFACE (2")	SQ YD	520
	2331.601	BITUMINOUS PAVEMENT RECLAMATION	SQ YD	64788
A	2350.501	TYPE MV 4 WEARING COURSE MIXTURE (C)	TON	6935
A	2350.502	TYPE MV 3 NON WEARING COURSE MIXTURE (C)	TON	5447
A	2350.502	TYPE LV 3 NON WEARING COURSE MIXTURE (C)	TON	1269
B 27	2350.503	TYPE LV4 WEARING COURSE MIXTURE, 2" THICK	SQ YD	135
16 A, D	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	8257
22 R	2501.511	18" CS PIPE CULVERT	LIN FT	380
22 R	2501.567	18" CS SAFETY APRON & GRATE DESIGN 3128	EACH	4
22	2506.501	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LIN FT	2.4
22	2506.516	CASTING ASSEMBLY	EACH	1
22	2511.501	RANDOM RIPRAP, CLASS II	CU YD	4
H	2531.507	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	83
17 M	2535.501	BITUMINOUS CURB	LIN FT	713
P	2540.602	INSTALL MAILBOX / SUPPORT	EACH	24
	2563.601	TRAFFIC CONTROL	LS	1
	2563.610	POLICE OFFICER	EACH	8
23	2564.531	F & I SIGN PANEL TYPE C	SQ FT	647
25	2564.537	INSTALL SIGN TYPE SPECIAL	EACH	1
18	2564.602	TEMPORARY RELOCATE SIGN TYPE C	EACH	20
23	2564.603	4" SOLID LINE WHITE - PAINT	LIN FT	26931
23	2564.603	4" SOLID LINE YELLOW - PAINT	LIN FT	2500
23	2564.603	4" DOUBLE SOLID LINE YELLOW - PAINT	LIN FT	19682
23	2564.603	4" BROKEN LINE YELLOW - PAINT	LIN FT	728
23	2564.603	24" SOLID LINE YELLOW - PAINT	LIN FT	260
23	2564.603	24" SOLID LINE WHITE - POLY PREFORM	LIN FT	39
23	2564.604	PAVEMENT MESSAGE WHITE - POLY PREFORM	SQ FT	31
D	2575.501	SEEDING	ACRE	3
D	2575.502	SEED MIXTURE 50B	LB	150
D	2575.502	SEED MIXTURE 130B	LB	300
21 D	2575.505	SODDING, TYPE LAWN	SQ YD	200
D	2575.519	DISK ANCHORING	ACRE	3
19 D	2575.525	EROSION STABILIZATION BLANKET, TYPE 2	SQ YD	833
D	2575.532	COMMERCIAL FERTILIZER ANALYSIS 22-5-10 (SLOW RELEASE)	LB	900
20 C	2580.501	TEMPORARY LANE MARKING	LIN FT	2553

CONSTRUCTION NOTES

1	REMOVE CMP CULVERT AT STATION 66+50 RT
2	INCLUDES ALL BITUMINOUS PAVEMENT REGARDLESS OF DEPTH
3	INCLUDES ALL CONCRETE PAVEMENT REGARDLESS OF DEPTH
4	SALVAGE TO ANOKA COUNTY HIGHWAY DEPARTMENT
5	RELOCATE STREET SIGN AT SUNWOOD, AS DIRECTED BY THE ENGINEER.
6	SALVAGE & STOCKPILE RECLAIMED BITUMINOUS AT GRADE MATCH POINTS, AS DIRECTED BY THE ENGINEER
7	STOCKPILED RECLAIMED BITUMINOUS MATERIAL TO BE REUSED AS AGGREGATE BASE, AS DIRECTED BY THE ENGINEER.
8	TO BE USED TO RESHAPE THE RECLAIMED BITUMINOUS MATERIAL, STA 55+54 TO 72+06, AS DIRECTED BY THE ENGINEER.
9	TO BE USED TO "BENCH" THE INSLOPE (0.0' TO 6.0') AT THE BEGINNING (55+54 TO 58+84) AND END (68+76 TO 72+06) OF THE WIDENING AREA, AS DIRECTED BY THE ENGINEER.
11	TO BE USED TO COMPACT THE "BENCHED" AREAS, AS DIRECTED BY THE ENGINEER.
13	200 M GALLON FOR DUST CONTROL, 20 M GALLON FOR MOISTENING THE SEED AREAS ALONG THE SHOULDER PRIOR TO APPLYING THE EMULSIFIED ASPHALT.
14	850 TON TO BE USED FOR THE WIDENING AREA, STA 55+54 TO 72+06.
15	TO BE TOPPED WITH 2" TOPSOIL BORROW.
16	INCLUDES 2,056 GALLON ASPHALT EMULSION TO BE APPLIED TO SEED AREAS ALONG THE SHOULDERS. APPLICATION RATE OF 0.18 GALLON PER SQUARE YARD FOR SEED AREAS.
17	PAYMENT FOR PLACING THE BITUMINOUS SHOE-FORMED LIP IN BERM AREAS, AS DIRECTED BY THE ENGINEER.
18	TEMPORARILY RELOCATE SIGNS, TYPE C, IN CONSTRUCTION WIDENING AREAS, AS DIRECTED BY THE ENGINEER.
19	TO BE PLACED AT HIGH EROSION AREAS ALONG THE SHOULDER, AS DIRECTED BY THE ENGINEER.
20	FOR LANE DELINEATION ON ALL BITUMINOUS COURSES.
21	TO BE PLACED AS DIRECTED BY THE ENGINEER.
22	SEE PLAN SHEETS #11 FOR LOCATION
23	SEE PLAN SHEETS #19-24 FOR LOCATIONS
24	FOR 6" BITUMINOUS/AGGREGATE REMOVAL AT SOUTHBOUND RIGHT TURN LANE CONSTRUCTION AT TH 10
25	STREET SIGN AT SUNWOOD AVE. N.W.
26	FOR TOPSOIL SHOULDERING.
27	INCLUDES 33 SQ. YDS. FOR BITUMINOUS FLUME CONSTRUCTION.

MN DOT STANDARD PLATE NO.	DESCRIPTION
3040 F	CORRUGATED METAL PIPE CULVERT
3128 H	METAL SAFETY APRON & GRATE
3134 C	RIPRAP AT CMP OUTLETS
4006 L	MANHOLE OR CATCH BASIN PRECAST - DESIGN G AND H
4026 A	CONCRETE ENCASED ADJUSTING RINGS
4101 D	RING CASTING FOR MANHOLE OR CATCH BASIN
4140 D	SPECIAL GRATE CASTING FOR CATCH BASIN
8000 I	STANDARD BARRICADE
8117 F	PRECAST CONCRETE HAND HOLE (OR PULLBOX)

TABULATION CHART LIST

CHART	SHEET NO	DESCRIPTION
A	5	BITUMINOUS SUMMARY
B	6	BITUMINOUS DRIVEWAY
C	6	TEMPORARY LANE MARKING
D	6	TURF ESTABLISHMENT
E	6	MILL BITUMINOUS SURFACE (BUTT JOINTS)
F	7	AGGREGATE BASE CLASS 5
G	7	REMOVE CONCRETE PAVEMENT
H	7	6" CONCRETE DRIVEWAY PAVEMENT
J	7	SAWING CONCRETE PAVEMENT
K	7	AGGREGATE BASE CLASS 5 (ENTRANCES)
L	7	AGGREGATE SHOULDER CLASS 1
M	8	BITUMINOUS CURB
N	8	BITUMINOUS FLUME
P	7	INSTALL MAILBOX SUPPORT
Q	7	CLEAR AND GRUB
R	7	PROPOSED CULVERT

BASIS OF ESTIMATED QUANTITIES

SPEC NO.	RATE
2350	TYPE LV3 NONWEAR TYPE MV3 NONWEAR TYPE MV3 WEAR 110 LBS / SQ YD / INCH
2350	TYPE HV 4 WEARING COURSE MIXTURE 110 LBS / SQ YD / INCH
2357	BITUMINOUS MATERIAL FOR TACK COAT 0.05 GAL / SQ YD / PER LIFT APPLIED
2575	COMMERCIAL FERTILIZER - ANALYSIS 22-5-10 (SLOW RELEASE) 300 LBS / ACRE FOR SOD AREAS

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

PRINT NAME: PETER M. LENKE
SIGNATURE: *Peter M. Lenke*
DATE: 07/03/02 LICENSE NO. 4011B

DRAWN BY: PML DATE 06/26/02

DESIGN BY: PML DATE 08/28/02

CHECKED BY: PML DATE 07/03/02



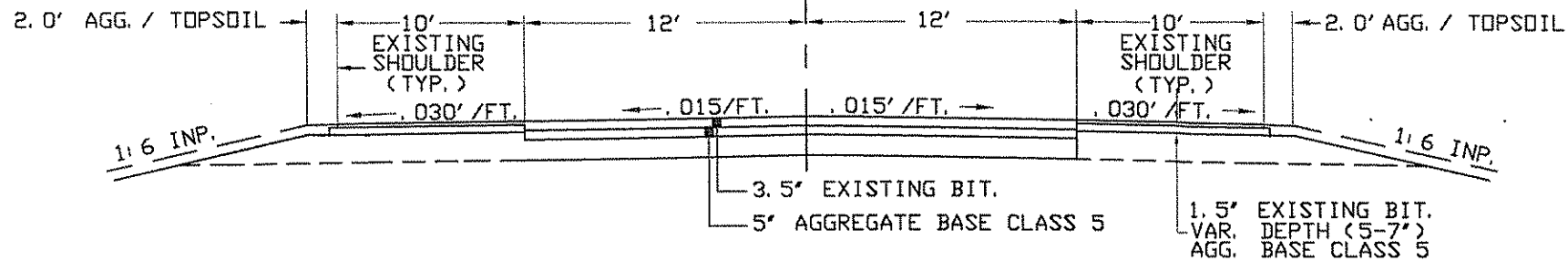
**ANOKA COUNTY
HIGHWAY DEPT.**

STATE PROJECT NO. _____
STATE AID PROJECT NO. _____
STATE AID PROJECT NO. _____
COUNTY PROJECT NO. 02-08-57

TABULATION CHARTS

Sheet 02 of 24 Sheets

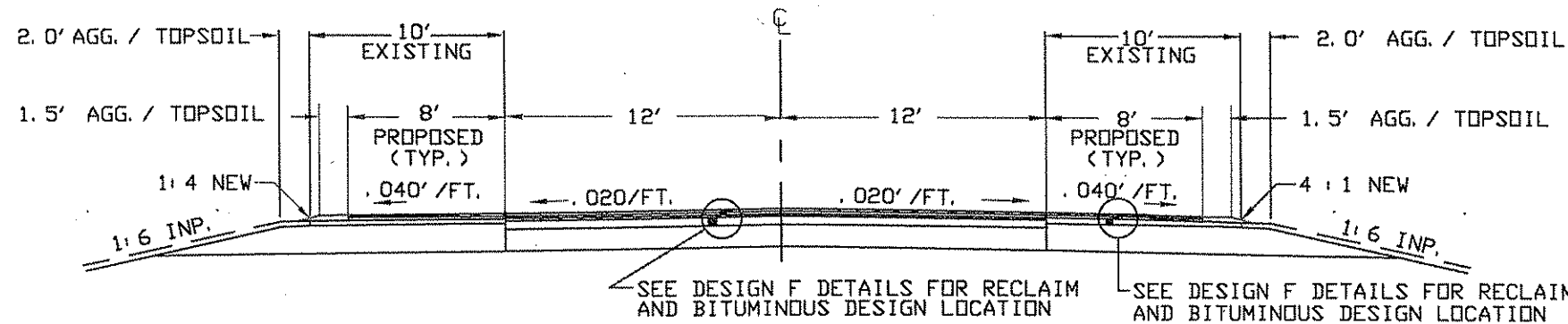
INPLACE C.R. 57 SECTION
 STA. 10+00 TO STA. 139+09.10
 EXCEPTION STA 15+13 TO 15+43 RR CROSSING
 Q EXISTING



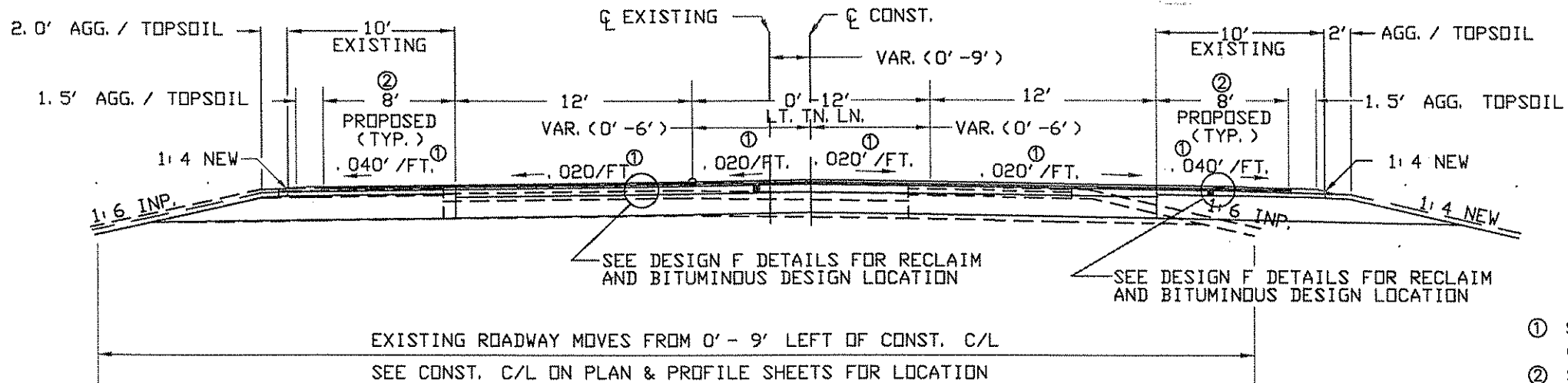
NOTE: INPLACE BITUMINOUS DEPTH SECTION STA 61+50 TO STA 64+80 VARIES FROM 3.5' TO 9.5'. THE ENGINEER MAY DIRECT ADDITIONAL BLENDING OF MATERIALS IN THIS AREA TO REDUCE THE BITUMEN CONTENT BELOW 3%. THIS ADDITIONAL BLENDING WORK SHALL BE PAID AS EXTRA WORK ON A FORCE ACCOUNT BASIS UNDER THE PROVISIONS OF MNDOT 1904.

C.S.A.H. 57 RECLAMATION & SHOULDER CONSTRUCTION TYPICAL

STA. 15+43 TO STA. 53+35.50
 STA. 75+26.98 TO STA. 139+09.10

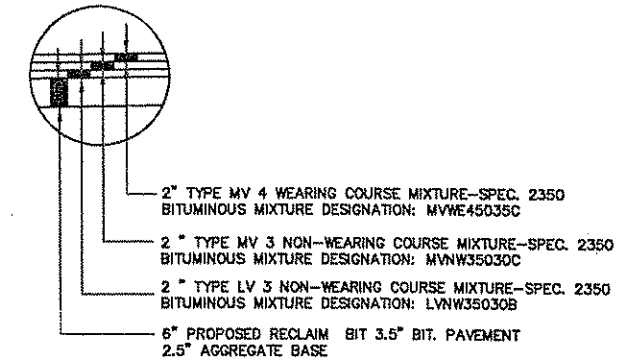


PROPOSED C.R. 57 SECTION
 STA. 53+35.50 TO STA. 75+26.98

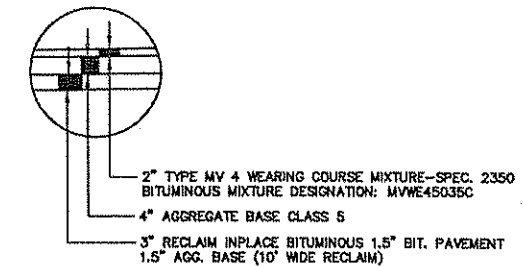


- ① SLOPES VARIABLE IN SUPERELEVATION GRADES TO BE STAKED BY THE ENGINEER.
- ② SEE RT. TN. LN. DETAIL FOR TURN LN. CONST.

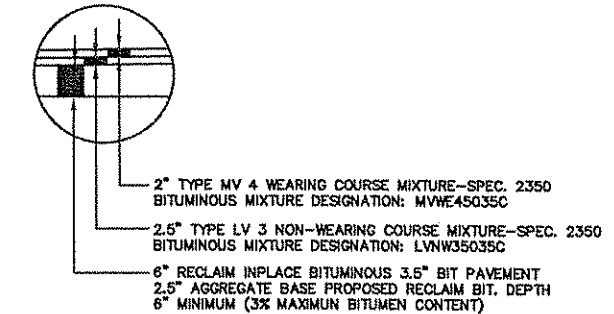
DESIGN F-1
 STA. 15+43 TO STA. 37+77



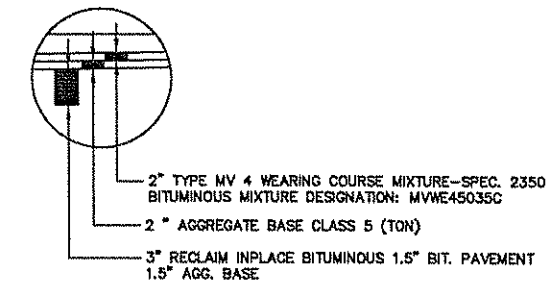
DESIGN F-2
 STA. 15+43 TO STA. 37+77



DESIGN F-3
 STA. 37+77 TO STA. 139+09.10



DESIGN F-4
 STA. 37+77 TO STA. 139+09.10

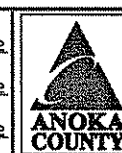


NOTE: NOT TO SCALE

NO	DATE	BY	CHKD	APPR	REVISION
1	6/7/01	TA			LVNW35030B
NAME: P:\02-01-00\02-08-57\Plan\03-04TYPICAL SECTION.dwg 07/09/2002 08:29:06 PM CDT					

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: PETER M LEJKE
 SIGNATURE: *Peter M Lejke*
 DATE: 07/03/02 LICENSE NO. 40118

DRAWN BY: KGL DATE 07/09/02
 DESIGN BY: NEG DATE 07/09/02
 CHECKED BY: LAR DATE 06/26/02



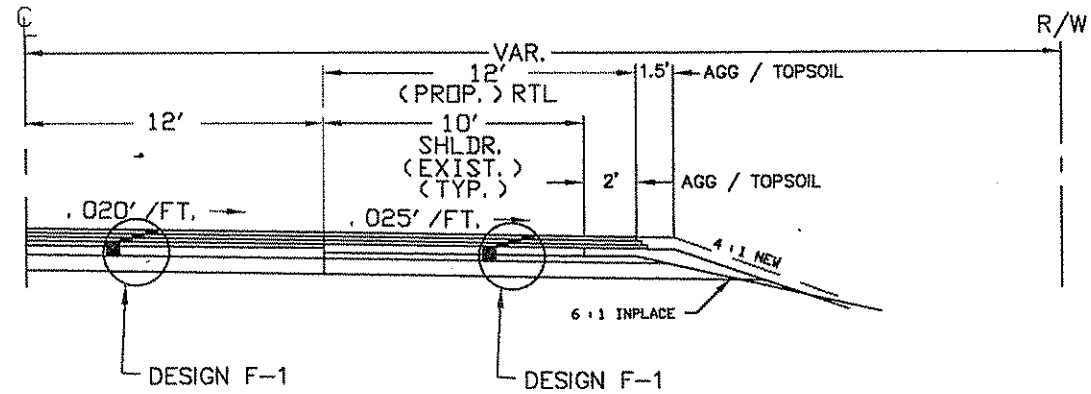
**ANOKA COUNTY
 HIGHWAY DEPT.**

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 SUBPROJECT NO. 02-08-57
 COUNTY PROJECT NO. 02-01-00

TYPICAL SECTIONS
 STA 10+00 - 138+80
 Sheet 3 of 23 Sheets

TYPICAL RIGHT TURN LANE SECTION (N.B. 57 @ CSAH 116)

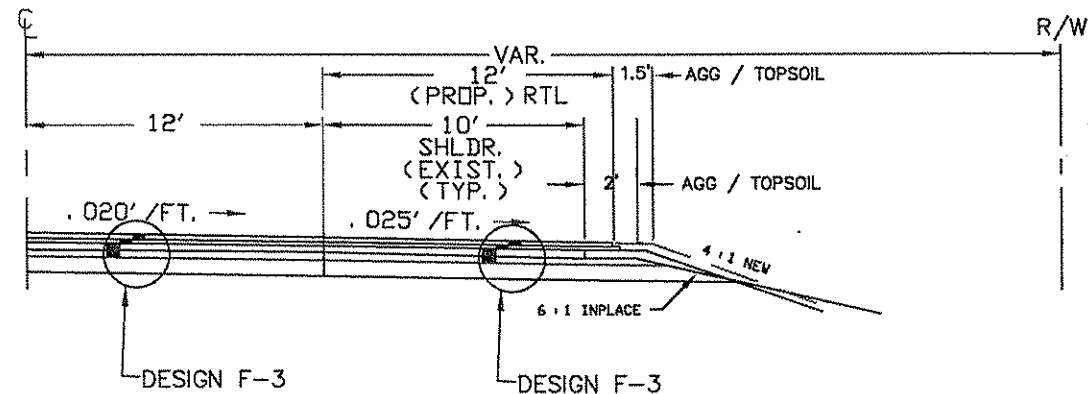
STA. 32+97 - STA. 37+77 (LNB)



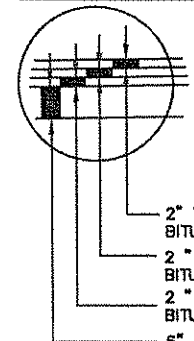
PROPOSED RIGHT TURN LANE CONSTRUCTION		
STA. TO STA.	LOCATION (FROM LNB)	REMARKS
32+97 - 37+77	RT.	CSAH #116
37+77 - 42+57	LT.	CSAH #116
58+77 - 63+57	RT.	SUNWOOD DRIVE N.W.
64+00 - 68+80	LT.	SUNWOOD DRIVE N.W.
134+14 - 138+94	RT.	CSAH #5

TYPICAL RIGHT TURN LANE SECTION (CSAH 116 - CSAH 5)

STA. 37+77 - STA. 42+57 (LSB) STA. 58+77 - STA. 63+57 (LNB)
 STA. 64+00 - STA. 68+80 (LSB) STA. 133+14 - STA. 138+94 (LNB)

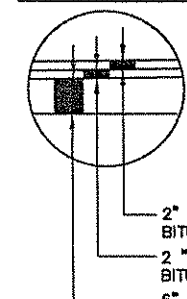


DESIGN F-1



- 2" TYPE MV 4 WEARING COURSE MIXTURE-SPEC. 2350
BITUMINOUS MIXTURE DESIGNATION: MVWE45035C
- 2" TYPE MV 3 NON-WEARING COURSE MIXTURE-SPEC. 2350
BITUMINOUS MIXTURE DESIGNATION: MVNW35030C
- 2" TYPE LV 3 NON-WEARING COURSE MIXTURE-SPEC. 2350
BITUMINOUS MIXTURE DESIGNATION: LVNW35030B
- 6" PROPOSED RECLAIM INPLACED BID 3.5" BIT. PAVEMENT
2.5" AGGREGATE BASE (SEE F-1)

DESIGN F-3



- 2" TYPE MV 4 WEARING COURSE MIXTURE-SPEC. 2350
BITUMINOUS MIXTURE DESIGNATION: MVWE45035C
- 2" TYPE LV 3 NON-WEARING COURSE MIXTURE-SPEC. 2350
BITUMINOUS MIXTURE DESIGNATION: LVNW35035C
- 6" RECLAIM INPLACE BITUMINOUS 3.5" BIT PAVEMENT
2.5" AGGREGATE BASE PROPOSED RECLAIM BIT. DEPTH
6" MINIMUM (3% MAXIMUM BITUMEN CONTENT)

NOTE: NOT TO SCALE

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINT NAME: PETER M LEMKE SIGNATURE: <i>Peter M Lemke</i> DATE: 07/03/02 LICENSE NO. 40118				DRAWN BY: BEL DATE 06/26/02 DESIGN BY: MEG DATE 06/26/02 CHECKED BY: LAR DATE 06/26/02	ANOKA COUNTY HIGHWAY DEPT.	STATE PROJECT NO. _____ STATE AID PROJECT NO. _____ SUBPROJECT NO. 02-08-57 COUNTY PROJECT NO. 02-01-00	TYPICAL SECTIONS STA 10+00 - 138+80 Sheet 4 of 24 Sheets
NO. 1 DATE 6/7/01 BY TA CKD APPR REVISION LVNW35030B	NAME P:\02-01-00\02-08-57\Plan\03-04TYPICAL SECTION.dwg 07/09/2002 08:40:05 AM CDT						

BITUMINOUS SUMMARY

A

STATION	TO STATION	LOCATION	REMARKS	TYPE MV 4	TYPE MV 3	TYPE LV 3	BITUMINOUS MATERIAL FOR TACK COAT (APPLICATION RATE = 0.05 GALLONS PER SQUARE YARD)
				WEARING COURSE MIXTURE 2" THICK	NON WEARING COURSE MIXTURE 2" THICK	NON WEARING COURSE MIXTURE 2" THICK	
10+00	11+10	SHLD./TURN LN. RT.		15	30		13
15+51	37+78	MAINLINE		653	681	708	928
15+51	18+93	SHLD./TURN LN. LT.		33			15
15+51	19+95	SHLD./TURN LN. RT.	McKINLEY ST.	65	65	65	89
18+93	24+58	SHLD./TURN LN. LT.	McKINLEY ST.	83	83	83	113
19+95	22+41	SHLD./TURN LN. RT.		24			11
22+41	33+41	SHLD./TURN LN. RT.	SUNFISH LK. CT./CSAH 116	161	161	161	220
24+58	27+00	SHLD./TURN LN. LT.		24			11
27+00	37+78	SHLD./TURN LN. LT.	SUNFISH LK. CT./CSAH 116	158	158	158	216
33+41	37+48	SHLD./TURN LN. RT.		40			18
37+48	54+28	SHLD./TURN LN. RT.	142nd/143rd/144th	226	226		205
37+78	55+54	MAINLINE		521	542		483
37+78	63+07	SHLD./TURN LN. LT.		247			112
54+28	58+77	SHLD./TURN LN. RT.		44			20
55+54	72+06	MAINLINE		665	686		614
58+77	64+46	SHLD./TURN LN. RT.	SUNWOOD DR.	84	83		76
63+07	68+80	SHLD./TURN LN. LT.	SUNWOOD DR.	84	84		76
64+46	100+25	SHLD./TURN LN. RT.		350			159
68+80	110+17	SHLD./TURN LN. LT.		405			184
72+06	139+08	MAINLINE		1966	2048		1824
100+25	105+65	SHLD./TURN LN. RT.	152nd AVE.	73	73		66
105+65	106+98	SHLD./TURN LN. RT.		13			6
106+98	112+71	SHLD./TURN LN. RT.	ALPINE DR.	77			70
110+17	122+43	SHLD./TURN LN. LT.	ALPINE DR./153rd LN.	165	165		150
112+71	134+17	SHLD./TURN LN. RT.		210			95
122+43	139+08	SHLD./TURN LN. LT.		163			74
134+17	138+97	SHLD./TURN LN. RT.	NOWTHEN BLVD.	65	65		59
142nd LANE		STREET APPR. RT.		17	11		13
143rd LANE		STREET APPR. RT.		17	11		13
144th AVE.		STREET APPR. RT.		17	11		13
152nd AVE.		STREET APPR. RT.		17	11		13
153rd LANE		STREET APPR. LT.		18	12		13
ADDR. #13745 (N. ENT)		1.5' KICK OUTS RT.	DRIVEWAY	1	1	1	2
ADDR. #13745 (S. ENT)		1.5' KICK OUTS RT.	DRIVEWAY	1	1	1	2
ADDR. #14501		1.5' KICK OUTS RT.	DRIVEWAY	1	1	1	1
ADDR. #14605		1.5' KICK OUTS RT.	DRIVEWAY	1	1	1	1
ADDR. #14861		1.5' KICK OUTS RT.	DRIVEWAY	1	1	1	1
ADDR. #14942		1.5' KICK OUTS LT.	DRIVEWAY	1	1	1	1
ADDR. #14963		1.5' KICK OUTS RT.	DRIVEWAY	1	1	1	1
ADDR. #15308 (N. ENT)		1.5' KICK OUTS LT.	DRIVEWAY	1	1	1	1
ADDR. #15315		1.5' KICK OUTS RT.	DRIVEWAY	1	1	1	1
ADDR. #15408		1.5' KICK OUTS LT.	DRIVEWAY	1	1	1	1
ADDR. #15430		1.5' KICK OUTS LT.	DRIVEWAY	1	1	1	1
ADDR. #15558		LT.	DRIVEWAY	1	1	1	1
ALPINE DR.		STREET APPR. LT.		25	16		19
ALPINE DR.		STREET APPR. RT.		23	16		18
CSAH 116		STREET APPR. LT.		24	16	16	25
CSAH 116		STREET APPR. RT.		24	16	16	25
McKINLEY ST.		STREET APPR. LT.		24	16	16	25
McKINLEY ST.		STREET APPR. RT.		24	16	16	25
SUNFISH LAKE CT.		STREET APPR. LT.		23	16	16	25
SUNFISH LAKE CT.		STREET APPR. RT.		22	15	15	23
SUNWOOD DR.		STREET APPR. LT.		21	14	14	23
SUNWOOD DR.		STREET APPR. RT.	FUTURE STREET	21	14		16
				21	14		16
TOTALS:				6935	5447	1269	6201

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 LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: PETER M. LEMKE
 SIGNATURE: *Peter M. Lemke*
 DATE: 07/03/02 LICENSE NO. 40118

DRAWN BY: EML DATE 06/26/02
 DESIGN BY: EML DATE 08/26/02
 CHECKED BY: EML DATE 07/03/02



**ANOKA COUNTY
HIGHWAY DEPT.**

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 02-08-57

2"THICK LV4WE ENTRANCE CONSTR.			B
LOCATION	OFFSET	REMARKS	TYPE LV 4 WEAR COURSE MIXTURE 2.0" THICK
			SQ YD
11+46	LT.		7.1
14+17	LT.		12.2
111+87	LT.		7
6400 INDUSTRY AVENUE	LT.		3.9
ADDRESS #14059	RT.		4.2
ADDRESS #14150(N)	LT.		3.9
ADDRESS #14150(S)	LT.		4.6
ADDRESS #14280	LT.		3.4
ADDRESS #14310	LT.		3.7
ADDRESS #14351	RT.		3.1
ADDRESS #14730	LT.		4.5
ADDRESS #14920	LT.		3.4
ADDRESS #15001	RT.		3.2
ADDRESS #15308	LT.		3.4
ADDRESS #15324	LT.		3.1
ADDRESS #15345	RT.		2.4
ADDRESS #15360	LT.		3.1
ADDRESS #15403	RT.		2.6
ADDRESS #15429	RT.		3.1
ADDRESS #15450	LT.		3.1
ADDRESS #15500	LT.		2.7
ADDRESS #15558	LT.		3.1
ADDRESS #15620	LT.		3.1
ADDRESS #15650	LT.		3.7
ADDRESS #14100	LT.		5.1
TOTAL			102

MILL BITUMINOUS SURFACE (BUTT JOINTS)					E
LOCATION	OFFSET	REMARKS	LENGTH	WIDTH	AREA
			FEET	FEET	SQ YD
McKINLEY ST.	LT	STREET APPR.	64.0	4.0	28
SUNFISH LAKE CT.	LT	STREET APPR.	60.0	4.0	27
CSAH 116	LT	STREET APPR.	65.0	4.0	29
SUNWOOD DR.	LT	STREET APPR.	58.0	4.0	26
ALPINE DR.	LT	STREET APPR.	67.0	4.0	30
153rd LANE	LT	STREET APPR.	48.0	4.0	21
McKINLEY ST.	RT	STREET APPR.	64.0	4.0	28
SUNFISH LAKE CT.	RT	STREET APPR.	58.0	4.0	26
CSAH 116	RT	STREET APPR.	65.0	4.0	29
142nd LANE	RT	STREET APPR.	46.0	4.0	20
143rd LANE	RT	STREET APPR.	46.0	4.0	20
144th AVE.	RT	STREET APPR.	46.0	4.0	20
SUNWOOD DR.	RT	STREET APPR.	58.0	4.0	26
152nd AVE.	RT	STREET APPR.	46.0	4.0	20
ALPINE DR.	RT	STREET APPR.	64.0	4.0	28
11+46	LT	BIT. DRIVES	58.0	1.5	10
14+17	LT	BIT. DRIVES	100.0	1.5	17
6400 IND. AVE.	LT	BIT. DRIVES	32.0	1.5	5
ADDR. #14100	LT	BIT. DRIVES	42.0	1.5	7
ADDR. #14150(S)	LT	BIT. DRIVES	38.0	1.5	6
ADDR. #14150(N)	LT	BIT. DRIVES	32.0	1.5	5
ADDR. #14280	LT	BIT. DRIVES	28.0	1.5	5
ADDR. #14310	LT	BIT. DRIVES	30.0	1.5	5
ADDR. #14730	LT	BIT. DRIVES	37.0	1.5	6
ADDR. #14920	LT	BIT. DRIVES	28.0	1.5	5
111+87	LT	BIT. DRIVES	57.0	1.5	10
ADDR. #15308	LT	BIT. DRIVES	28.0	1.5	5
ADDR. #15324	LT	BIT. DRIVES	25.0	1.5	4
ADDR. #15360	LT	BIT. DRIVES	25.0	1.5	4
ADDR. #15450	LT	BIT. DRIVES	25.0	1.5	4
ADDR. #15500	LT	BIT. DRIVES	22.0	1.5	4
ADDR. #15558	LT	BIT. DRIVES	25.0	1.5	4
ADDR. #15620	LT	BIT. DRIVES	25.0	1.5	4
ADDR. #15650	LT	BIT. DRIVES	30.0	1.5	5
ADDR. #14059	RT	BIT. DRIVES	34.0	1.5	6
ADDR. #14351	RT	BIT. DRIVES	25.0	1.5	4
ADDR. #15001	RT	BIT. DRIVES	26.0	1.5	4
ADDR. #15345	RT	BIT. DRIVES	20.0	1.5	3
ADDR. #15403	RT	BIT. DRIVES	21.0	1.5	4
ADDR. #15429	RT	BIT. DRIVES	25.0	1.5	4
TOTAL					520

TEMPORARY LANE MARKING						C
STATION	STATION	LOCATION	LENGTH	TAPE LENGTH	# PAVING LIFTS	LENGTH x LIFTS
			LIN FT	LIN FT	EACH	LIN FT
9+91	37+78	C/L	2787	223	3	669
37+78	55+54	C/L	1776	142	2	284
55+54	72+06	LSB	1652	132	2	264
55+54	72+06	LNB	1652	132	2	264
72+06	139+08	C/L	6702	536	2	1072
TOTAL						2553

TURF ESTABLISHMENT								D
STATION	STATION	LOCATION	SOD	EROSION BLANKET	SEEDING	SEED	FERT.	MULCH
			SQ.YD.	SQ.YD.	ACRE	POUND	TON	GAL
48+40	48+70	RT		5.5				
49+25	51+25	RT		5.5				
121+15	122+68	LT		5.5				
121+20	121+87	RT		5.5				
122+15	123+65	RT		5.5				
123+00	124+13	LT		5.5				
10+00	138+34	RT & LT	200	800	3.00	450	900	2056
TOTAL			200	833	3	450	900	2056

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 LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: PETER M LEMKE
 SIGNATURE: *Peter M Lemke*
 DATE: 07/03/02 LICENSE NO. 4011B

DRAWN BY: PML DATE 06/26/02
 DESIGN BY: PML DATE 06/26/02
 CHECKED BY: PML DATE 07/03/02



ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 02-08-57

TABULATION CHARTS

Sheet 06 of 24 Sheets

AGGREGATE BASE CLASS 5								F
STATION	STATION	LOC.	REMARKS	LENGTH	WIDTH	DEPTH	VOLUME	WEIGHT*
				FEET	FEET	FEET	CU YD	TON
15+51	18+93	LT	8' SHOULDER	342.0	10.0	0.333	42.2	76
24+58	27+00	LT	8' SHOULDER	242.0	10.0	0.333	29.8	54
37+78	63+17	LT	8' SHOULDER	2539.0	10.0	0.208	195.6	352
68+80	110+17	LT	8' SHOULDER	4137.0	10.0	0.208	318.7	574
122+43	139+08	LT	8' SHOULDER	1665.0	10.0	0.208	128.3	231
9+69	15+04	RT	8' SHOULDER	535.0	10.0	0.333	66.0	119
19+95	22+41	RT	8' SHOULDER	246.0	10.0	0.333	30.3	55
33+41	37+48	RT	8' SHOULDER	407.0	10.0	0.333	50.2	90
54+28	58+77	RT	8' SHOULDER	449.0	10.0	0.208	34.6	62
64+46	100+25	RT	8' SHOULDER	3579.0	10.0	0.208	275.7	496
105+65	106+98	RT	8' SHOULDER	133.0	10.0	0.208	10.2	18
112+71	134+17	RT	8' SHOULDER	2146.0	10.0	0.208	165.3	298
*BASED ON MN/DOT CONVERSION CV -TON OF 1.8							1347.0	2425

AGGREGATE BASE CLASS 5		K
ENTRANCE	LOCATION	WEIGHT
		TON
14+43	RT.	7.0
ADDR. #13745 (N. ENT)	RT.	7.0
ADDR. #13745 (S. ENT)	RT.	7.0
ADDR. #14501	RT.	7.0
ADDR. #14605	RT.	7.0
ADDR. #14851	RT.	7.0
ADDR. #14942	LT.	7.0
ADDR. #14963	RT.	7.0
ADDR. #15308 (N. ENT)	LT.	7.0
ADDR. #15315	RT.	7.0
ADDR. #15408	LT.	7.0
ADDR. #15430	LT.	7.0
ADDR. #15558	LT.	7.0
TOTAL		91.0

INSTALL MAIL BOX SUPPORT		P
ADDRESS	LOCATION	EACH
14059	RT	1
14351	RT	1
14501	RT	1
14605	RT	1
14851	RT	1
14963	RT	1
15001	RT	1
15315	RT	1
15325	RT	1
15403	RT	1
15429	RT	1
14280	LT	1
14300	LT	1
14310	LT	1
14920	LT	1
14942	LT	1
15308	LT	1
15324	LT	1
15360	LT	1
15408	LT	1
15430	LT	1
15450	LT	1
15500	LT	1
15558	LT	1
TOTAL		24

REMOVE CONCRETE DRIVEWAY PAVEMENT					G
STATION	LOC.	LENGTH	WIDTH	AREA	
		FEET	FEET	SQ YD	
ADDRESS #14300	LT	30	10	33.3	
ADDRESS #14131	RT	31	10	34.4	
ADDRESS #15325	RT	14	10	15.6	
TOTAL				83.3	

AGGREGATE SHOULDERING CLASS 1								L
STATION	STATION	LOC.	LENGTH	DEPTH	CU.YDS./STA	VOLUME	WEIGHT*	
	STATION		IN		CU YD	CU YD	TON	
1551	1893	LT	3.4	2.0	1.15	3.9	7	
1893	2458	LT	RT. TURN LANE	5.7	6.0	4.63	26.2	47
2458	2700	LT	2.4	2.0	1.15	2.8	5	
2700	3778	LT	RT. TURN LANE	10.8	6.0	4.63	49.9	90
3778	6317	LT	25.4	2.0	1.15	29.2	53	
6317	6880	LT	RT. TURN LANE	5.6	4.5	3.11	17.5	32
6880	11017	LT	41.4	2.0	1.15	47.6	86	
11017	12243	LT	RT. TURN LANE	12.3	4.5	3.11	38.1	69
12243	13908	LT	16.7	2.0	1.15	19.1	34	
969	1504	RT	5.4	2.0	1.15	6.2	11	
1551	1995	RT	RT. TURN LANE	4.4	6.0	4.63	20.6	37
1995	2241	RT	2.5	2.0	1.15	2.8	5	
2241	3341	RT	RT. TURN LANE	11.0	6.0	4.63	50.9	92
3341	3748	RT	4.1	2.0	1.15	4.7	8	
3748	5428	RT	RT. TURN LANE	16.8	4.5	3.11	52.2	94
5428	5877	RT	4.5	2.0	1.15	5.2	9	
5877	6446	RT	RT. TURN LANE	5.7	4.5	3.11	17.7	32
6446	10025	RT	35.8	2.0	1.15	41.2	74	
10565	10698	RT	1.3	2.0	1.15	1.5	3	
10698	11271	RT	RT. TURN LANE	5.7	4.5	3.11	17.8	32
11271	13417	RT	21.5	2.0	1.15	24.7	44	
13417	13897	RT	RT. TURN LANE	4.8	4.5	3.11	14.9	27
* BASED ON MN/DOT CONVERSION CV -TON OF 1.8)						TOTALS	494.7	890


(1.5' SHLD. 2" DEPTH = 1.15 CU.YDS.(CV)/STATION)
(1.5' SHLD. 6" DEPTH = 4.63 CU.YDS.(CV)/STATION)
(1.5' SHLD. 4.5" DEPTH = 3.11 CU.YDS.(CV)/STATION)

6" CONCRETE DRIVEWAY PAVEMENT					H
STATION	LOC.	LENGTH	WIDTH	AREA	
		FEET	FEET	SQ YD	
ADDRESS #14300	LT	30	10	33.3	
ADDRESS #14131	RT	31	10	34.4	
ADDRESS #15325	RT	14	10	15.6	
TOTAL				83.3	

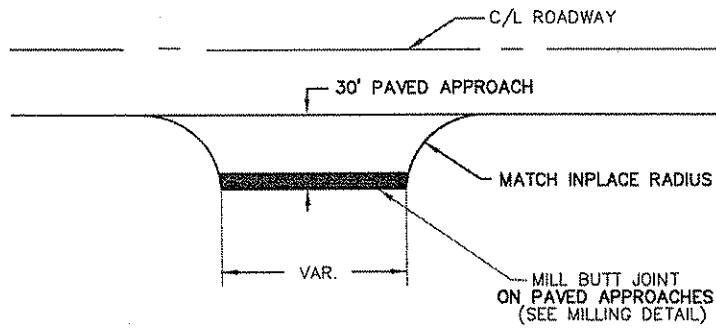
SAWING CONCRETE PAVEMENT (FULL DEPTH)			J
STATION	LOC.	LENGTH	
		FEET	
ADDRESS #14300	LT	30	
ADDRESS #14131	RT	31	
ADDRESS #15325	RT	14	
TOTAL		75.0	

CLEAR AND GRUB CHART				Q
STATION	LOC	CLEAR	GRUB	
5803	34' Rt	6" Stump	0	1
5900	42' Rt	6" Stump	0	1
5912	43' Rt	6" Stump	0	1
5975	40' Rt	6" Stump	0	1
6028	44' Rt	6" Stump	0	1
6030	38' Rt	6" Stump	0	1
6035	39' Rt	6" Stump	0	1
6038	40' Rt	6" Stump	0	1
6044	41' Rt	6" Stump	0	1
6050	41' Rt	6" Stump	0	1
6064	42' Rt	6" Stump	0	1
6065	42' Rt	6" Stump	0	1
6080	41' Rt	12" Stump	0	1
6195	38' Rt	4" Elm	1	1
6645	40' Rt	Quad 5" Elm	5	1
TOTALS:			6	15

PROPOSED CULVERT TABULATION					R
STATION	LOCATION	INPLACE	REMARKS	FEET	APRON
58+00-59+80	32' RT	18" CMP		180	1
59+80-61+30	32'RT-42'RT	18" CMP		150	1
66+44-66+76	44' RT	18" CMP		50	2
TOTALS				380	4

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINT NAME: PETER M LEMKE SIGNATURE: <i>Peter M Lemke</i> DATE: 07/03/02 LICENSE NO. 4011B					DRAWN BY: PML DATE 06/26/02 DESIGN BY: PML DATE 06/28/02 CHECKED BY: PML DATE 07/03/02	 ANOKA COUNTY HIGHWAY DEPT.	STATE PROJECT NO. _____ STATE AID PROJECT NO. _____ STATE AID PROJECT NO. _____ COUNTY PROJECT NO. 02-08-57	TABULATION CHARTS Sheet 07 of 24 Sheets	
NO	DATE	BY	CHKD	APPR	REVISION				

PAVED & UNPAVED STREET APPROACHES



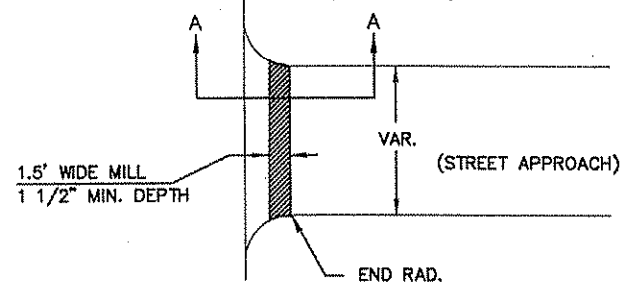
NOTE: PAID FOR AS ITEM NO. 2350.604
(2" THICK BITUMINOUS WEARING COURSE)

* APPROACHES TO BE PAID BY THE SQ YD

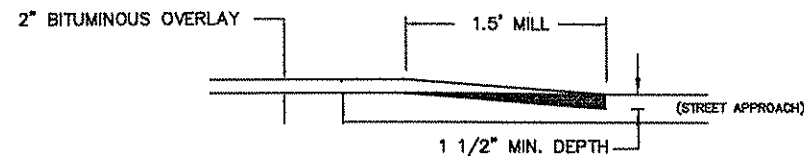
MILLING DETAILS

BUTT JOINTS

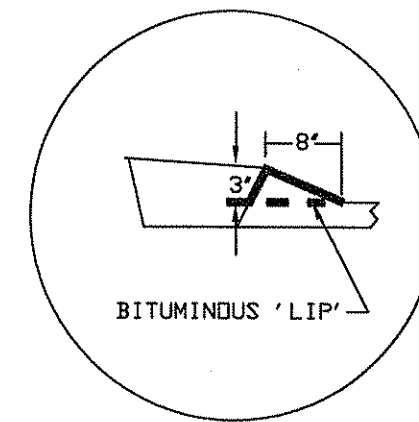
(PLAN VIEW)



(SECTION A-A)



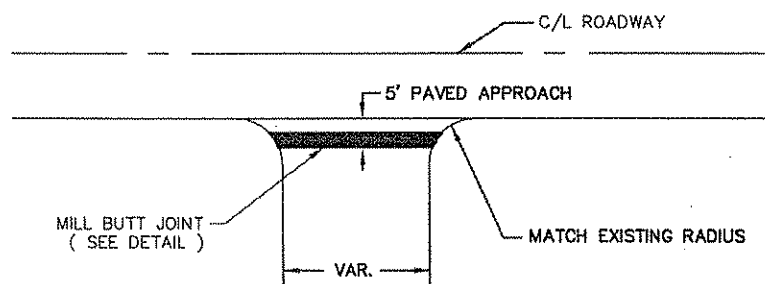
BERM SECTION



- ① EXISTING BITUMINOUS LIP TO BE RECLAIMED WITH SHOULDER
- ② PROPOSED BITUMINOUS LIP TO BE PAID AS BITUMINOUS CURB, ITEM NO. 2535.501

BITUMINOUS CURB			M
STATION	STATION	LOCATION	LENGTH FEET
48+40	48+70	RT	30
49+25	51+25	RT	200
121+15	122+68	LT	153
121+20	121+87	RT	67
122+15	123+65	RT	150
123+00	124+13	LT	113
TOTAL			713

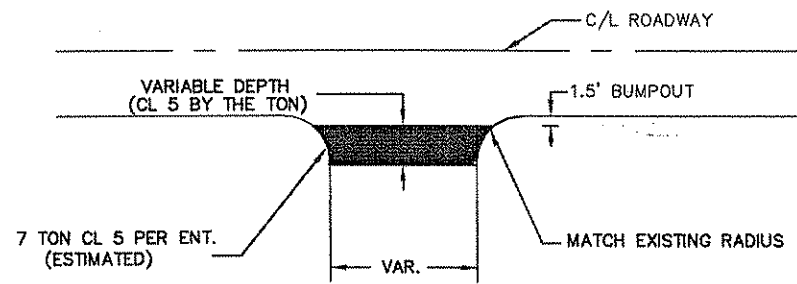
PAVED ENTRANCES



NOTE: PAID FOR AS ITEM NO. 2350.604
(2" THICK BITUMINOUS WEARING COURSE)

- * APPROACHES TO BE PAID BY THE TON IF PAVED AS PART OF MAINLINE PAVING
- * APPROACHES TO BE PAID BY THE SQ YD IF PAVED AS A SEPARATE OPERATION.

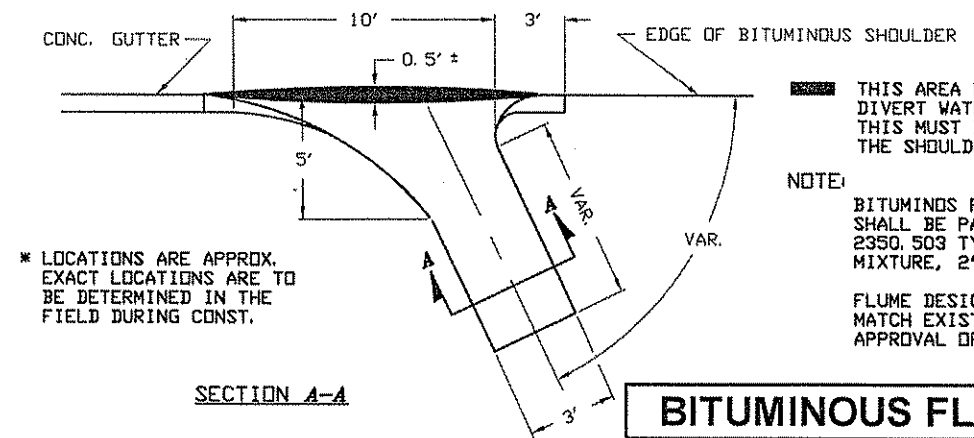
FIELD AND UNPAVED ENTRANCES



NOTE: PAID FOR AS ITEM NO. 2211.501
(AGGREGATE BASE CL 5 (TON))

(NOT TO SCALE)

TYPICAL BITUMINOUS FLUME



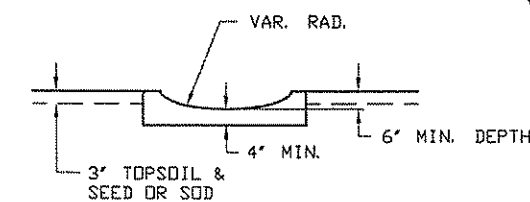
NOTE: THIS AREA OF INCREASED SLOPE TO DIVERT WATER FLOW INTO FLUME. THIS MUST BE ACCOMPLISHED DURING THE SHOULDER PAVING OPERATION.

NOTE: BITUMINOUS FLUME CONSTRUCTION SHALL BE PAID BY THE SQ. YD. AS 2350.503 TYPE LV4 WEARING COURSE MIXTURE, 2" THICK.

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.

SECTION A-A



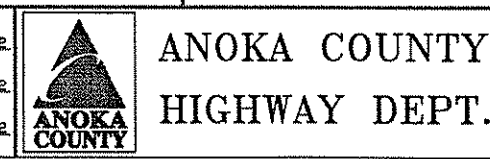
BITUMINOUS FLUME		N
STATION	LOCATION	AREA SQ YD
48+40	LT	5.5
49+25	LT	5.5
121+15	RT	5.5
121+20	RT	5.5
122+15	RT	5.5
124+13	LT	5.5
TOTAL		33

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 LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: PETER M. LEMKE
SIGNATURE: *Peter M. Lemke*
DATE: 07/03/02 LICENSE NO. 40118

DRAWN BY: BEL DATE 06/26/02
DESIGN BY: MEG DATE 06/26/02
CHECKED BY: PML DATE 07/03/02

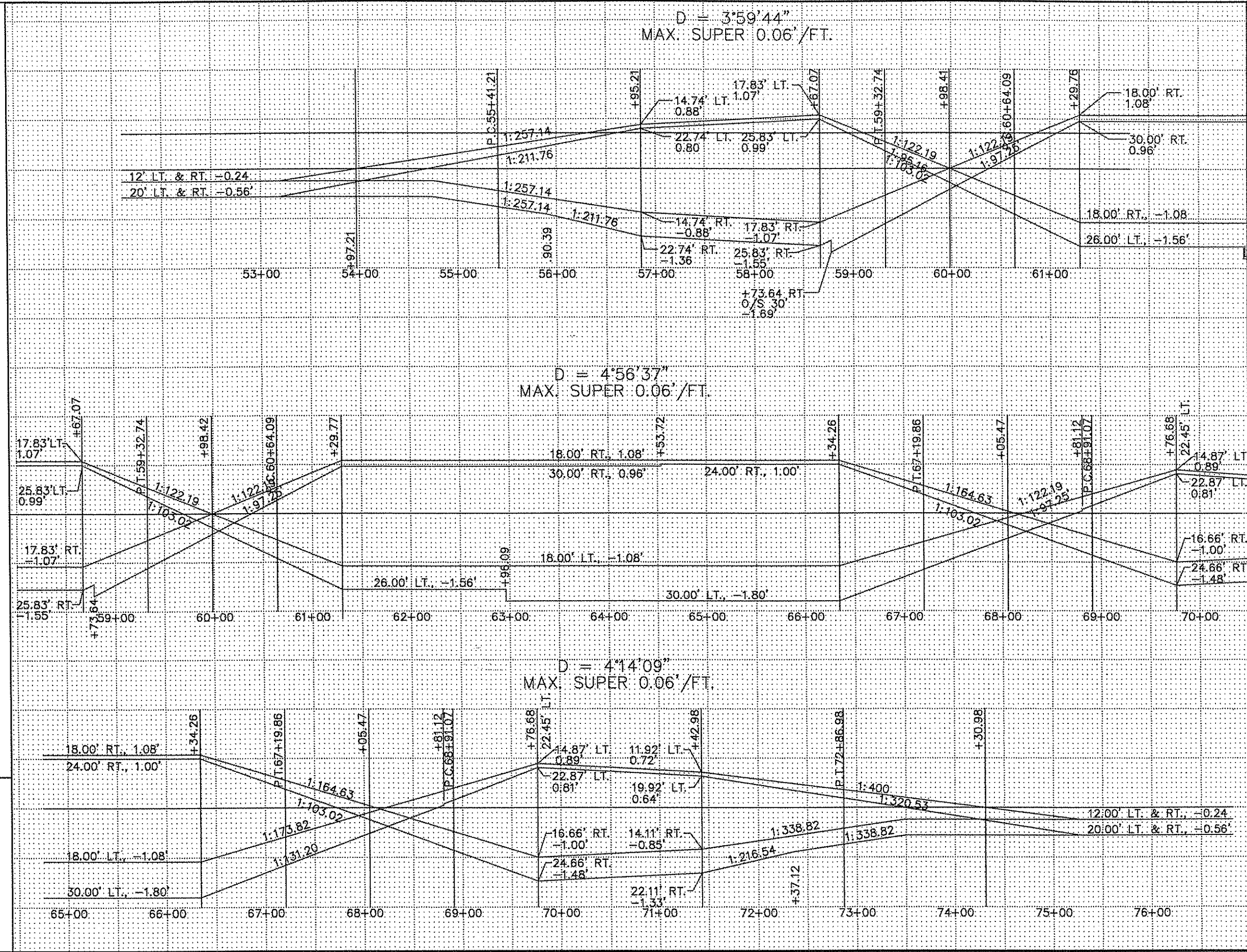


STATE PROJECT NO. _____
STATE AID PROJECT NO. _____
COUNTY PROJECT NO. 02-01-00
COUNTY SUB-PROJECT NO. 02-08-57

TYPICAL SECTIONS
Sheet 08 of 24 Sheets

EARTHWORK

STATION	DISTANCE	REG. CUT	REG. FILL	BALANCE TOTALS	
				CU. YD.	CU. YD.
57+75.00	25.00	0	0	68	6
58+00.00	25.00	5	13	73	20
58+25.00	25.00	6	17	80	37
58+50.00	25.00	7	21	86	56
58+75.00	25.00	7	21	93	78
59+00.00	6.24	8	26	95	84
59+06.24	18.76	8	26	101	103
59+25.00	7.74	8	29	104	112
59+32.74	17.26	8	30	109	131
59+50.00	25.00	8	31	117	155
59+75.00	25.00	8	21	124	166
60+00.00	23.92	7	2	135	167
60+23.92	1.08	17	0	136	167
60+25.00	25.00	23	0	150	175
60+50.00	14.09	8	19	154	192
60+64.09	7.17	9	23	157	200
60+71.26	3.74	9	44	158	207
60+75.00	25.00	9	44	166	248
61+00.00	25.00	10	48	175	290
61+25.00	50.00	9	44	192	369
61+50.00	25.00	9	42	200	409
61+75.00	25.00	9	44	209	451
62+00.00	25.00	10	46	220	497
62+25.00	25.00	12	52	232	543
62+50.00	25.00	13	48	243	591
62+75.00	25.00	13	54	255	645
63+00.00	14.94	13	63	-263	675
63+14.94	10.06	18	46	271	690
63+25.00	25.00	25	34	290	715
63+40.66	9.34	41	17	299	718
63+50.00	25.00	15	19	303	725
63+75.00	10.95	14	3	308	727
63+85.95	3.12	13	4	310	727
63+89.07	10.93	12	5	315	731
64+00.00	11.87	16	14	324	745
64+11.87	13.13	26	49	335	780
64+25.00	8.66	20	96	341	805
64+33.66	14.22	28	79	351	842
64+47.88	2.12	15	60	342	810
64+50.00	25.00	14	61	354	859
64+75.00	25.00	12	46	373	906
65+00.00	25.00	29	55	392	957
65+25.00	25.00	13	55	405	1008
65+50.00	25.00	14	55	420	1060
65+75.00	25.00	18	56	436	1111
66+00.00	25.00	16	55	449	1159
66+25.00	25.00	13	49	461	1186
66+50.00	16.76	13	9	468	1192
66+66.76	8.24	8	9	471	1199
66+75.00	25.00	12	39	482	1238
67+00.00	19.86	12	45	491	1273
67+19.86	5.14	12	49	493	1280
67+25.00	6.26	14	33	496	1288
67+31.26	18.74	14	35	506	1312
67+50.00	25.00	14	35	518	1347
67+75.00	25.00	13	40	530	1384
68+00.00	25.00	13	40	541	1422
68+25.00	25.00	12	42	553	1462
68+50.00	25.00	13	45	564	1503
68+75.00	10.85	13	43	569	1520
68+85.85	5.22	13	41	572	1527
68+91.07	8.93	13	40	576	1539
69+00.00	25.00	13	37	584	1550
69+25.00	1.77	13	35	585	1562
69+26.77	23.23	13	35	596	1590
69+50.00	25.00	14	31	609	1616
69+75.00	25.00	16	26	624	1638
70+00.00	25.00	16	21	638	1657
70+25.00	25.00	15	19	645	1665
70+50.00		0	0	645	1665
TOTALS=				645	1665



EARTHWORK NOTES

COMMON EXCAVATION - 545 C.Y.(E.V.) @ X 0.80% = 516 C.Y.(C.V.),
 SALV. T.S. AVAIL= 506 C.Y.(E.V.) X 0.80% = 405 C.Y.(C.V.),AVAIL
 COMMON EXC.- 516 C.Y.(C.V.) - 297 C.Y.(C.V.) TOPSOIL REQ'D. =
 219 C.Y.(C.V.) AVAIL. COMMON EXCAVATION.

REG. EMB. = 1665 C.Y.(C.V.)-219 C.Y.(C.V.) COMMON EXC. =
 1446 C.Y.(C.V.) X 130% = 1880 C.Y.(L.V.) SELECT GRAN. BORROW

① QUANTITY INCLUDES SALVAGE TOPSOIL

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: PETER M LEMKE
 SIGNATURE: Peter M Lemke
 DATE: 07-09-02 LICENSE NO. 40118

DRAWN BY: KGL DATE 07/08/02
 DESIGN BY: KGL DATE 07/08/02
 CHECKED BY: _____ DATE _____



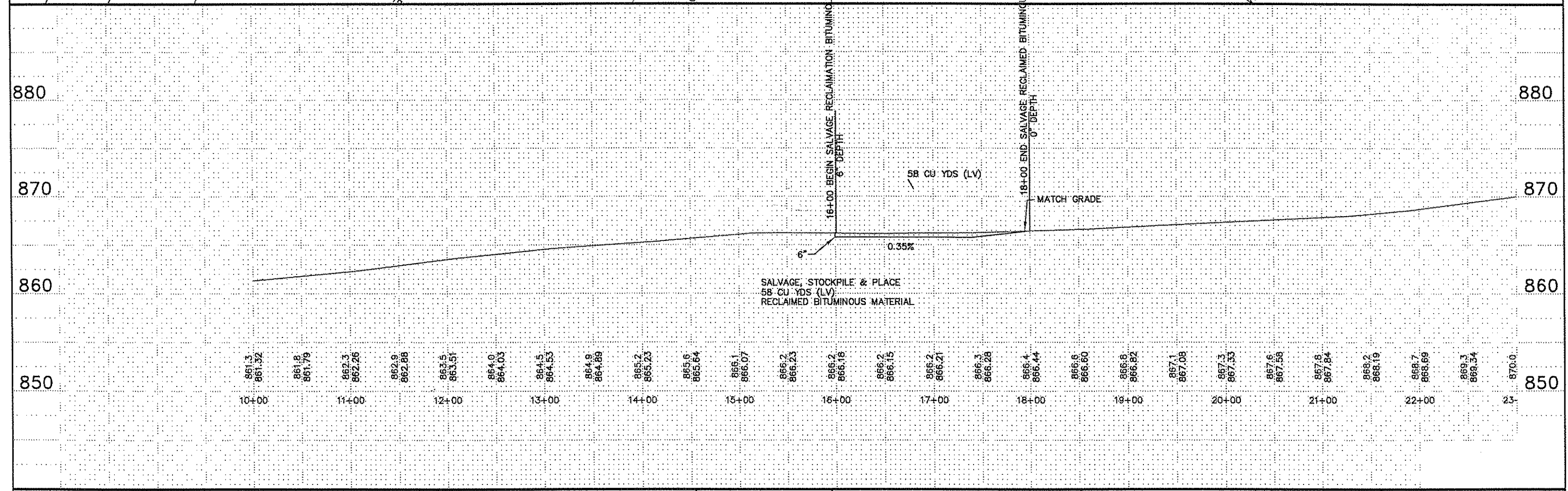
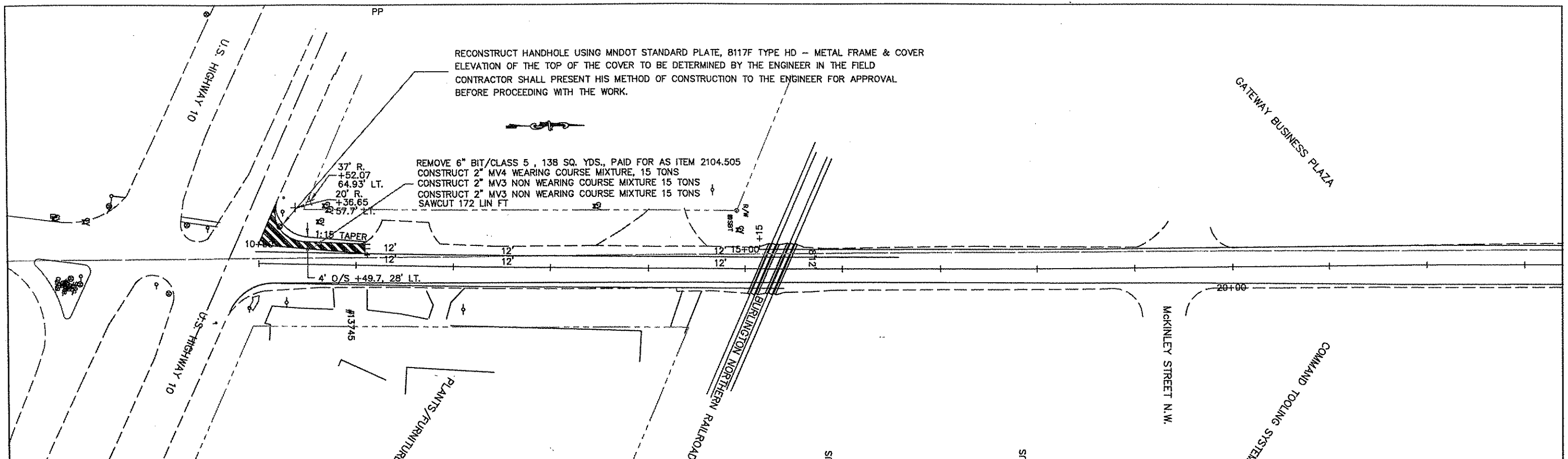
ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 02-08-57

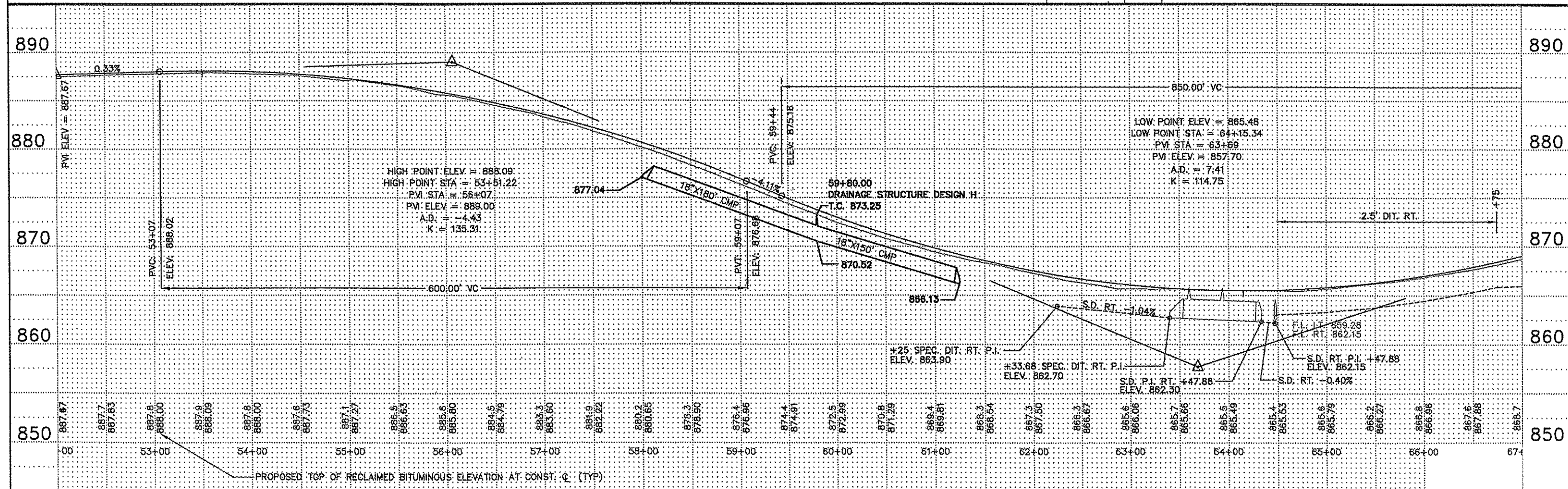
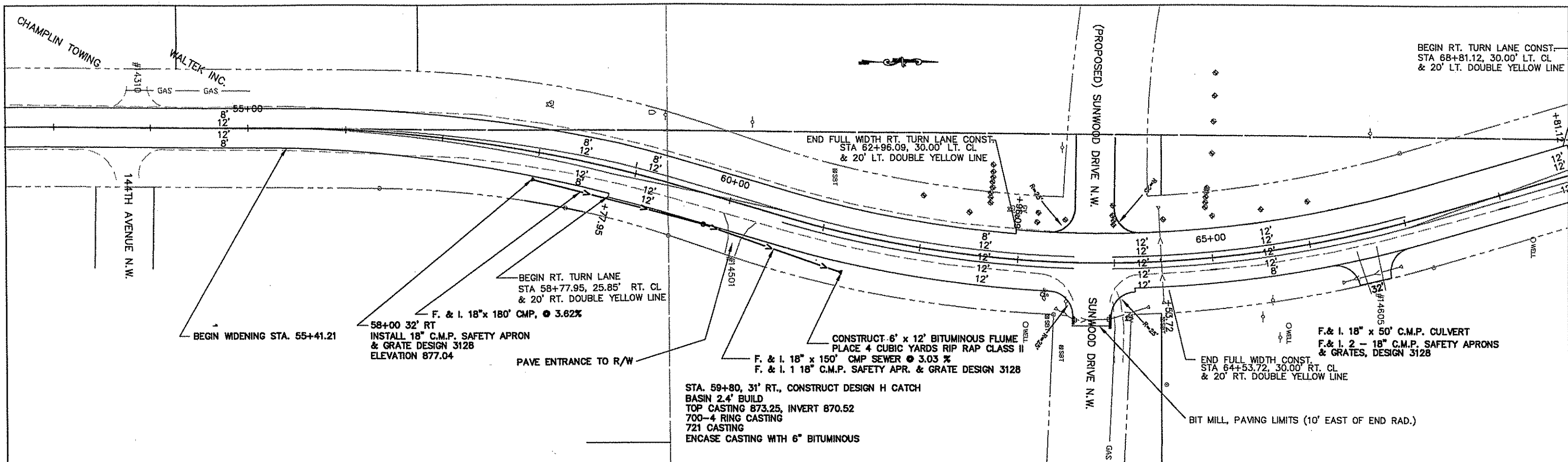
SUPERELEVATION

RECONSTRUCT HANDHOLE USING MNDOT STANDARD PLATE, 8117F TYPE HD - METAL FRAME & COVER
 ELEVATION OF THE TOP OF THE COVER TO BE DETERMINED BY THE ENGINEER IN THE FIELD
 CONTRACTOR SHALL PRESENT HIS METHOD OF CONSTRUCTION TO THE ENGINEER FOR APPROVAL
 BEFORE PROCEEDING WITH THE WORK.

REMOVE 6" BIT/CLASS 5, 138 SQ. YDS., PAID FOR AS ITEM 2104.505
 CONSTRUCT 2" MV4 WEARING COURSE MIXTURE, 15 TONS
 CONSTRUCT 2" MV3 NON WEARING COURSE MIXTURE 15 TONS
 CONSTRUCT 2" MV3 NON WEARING COURSE MIXTURE 15 TONS
 SAWCUT 172 LIN FT



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. PRINT NAME: PETER M LEMKE SIGNATURE: <i>Peter M Lemke</i> DATE: 07/03/02 REG. NO. 40118					DRAWN BY: KGL DATE 06/27/02 DESIGN BY: KGL DATE 06/27/02 CHECKED BY: PML DATE 07/03/02		ANOKA COUNTY HIGHWAY DEPT.		STATE PROJECT NO. _____ STATE AID PROJECT NO. _____ STATE AID PROJECT NO. _____ COUNTY PROJECT NO. 02-08-57		PLAN AND PROFILE STA10+00 TO 23+00 Sheet 10 of 24 Sheets	
NO	DATE	BY	CKD	APPR	REVISION							
NAME: P:\02-01-00\02-08-57\base\020857.dwg 07/03/02 11:26:56 AM CDT												



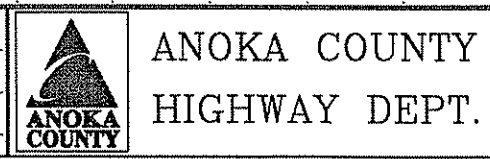
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I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

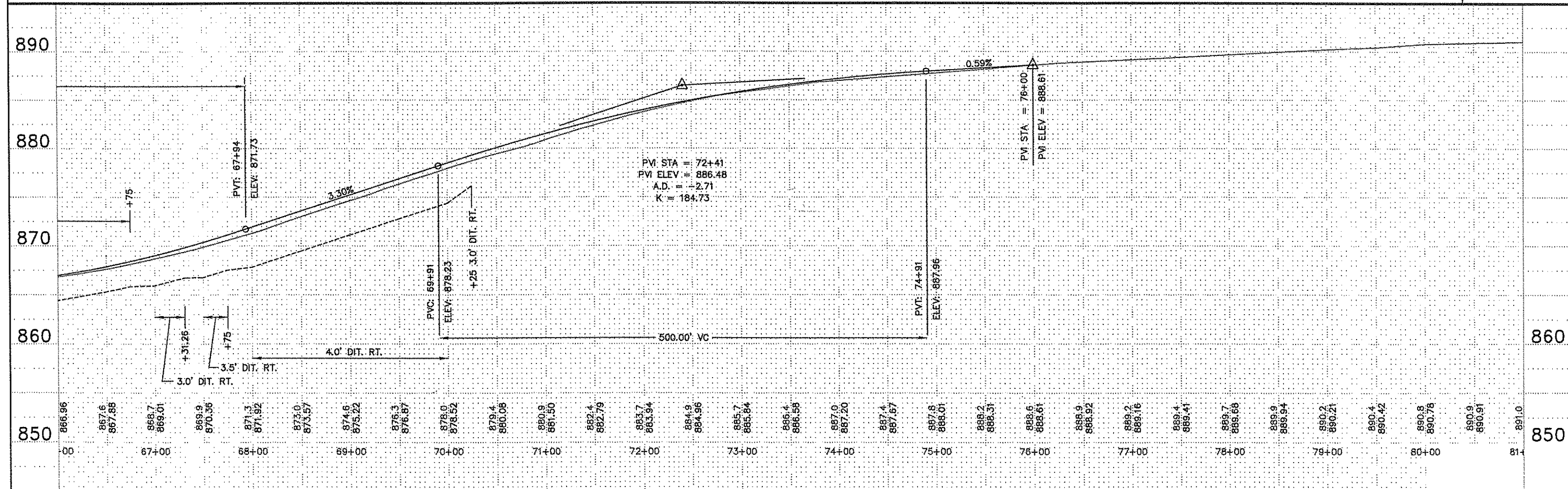
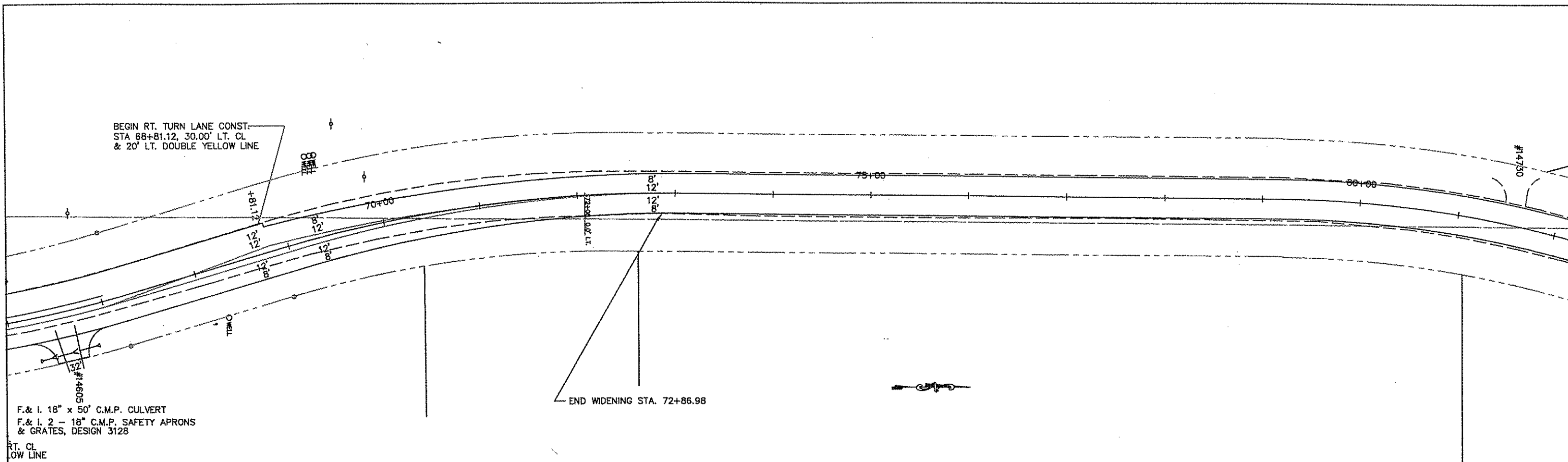
PRINT NAME: PETER M LEMKE
 SIGNATURE: *Peter M Lemke*
 DATE: 07/03/02 REG. NO. 40118

DRAWN BY: KGL DATE 06/27/02
 DESIGN BY: KGL DATE 06/27/02
 CHECKED BY: PML DATE 07/03/02



STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 02-08-57

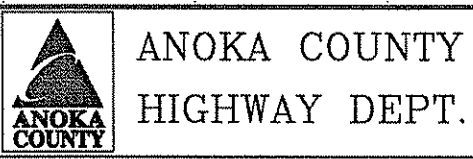
PLAN AND PROFILE
 STA 52+00.00 TO 66+00.00
 Sheet 11 of 24 Sheets



NO	DATE	BY	CKD	APPR	REVISION
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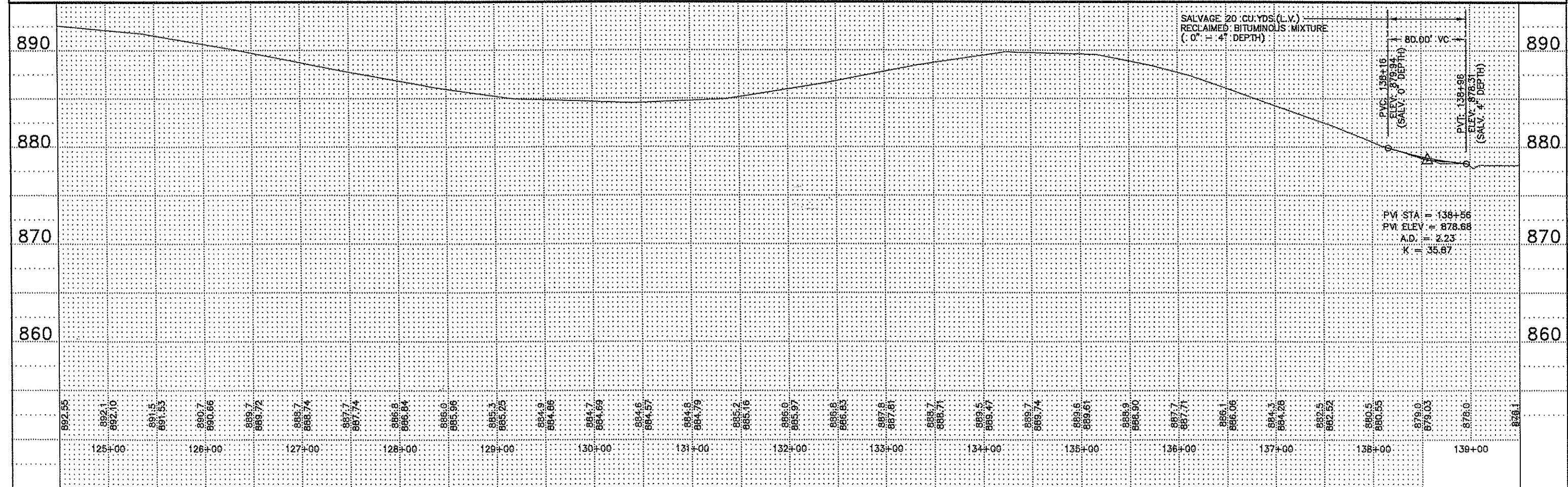
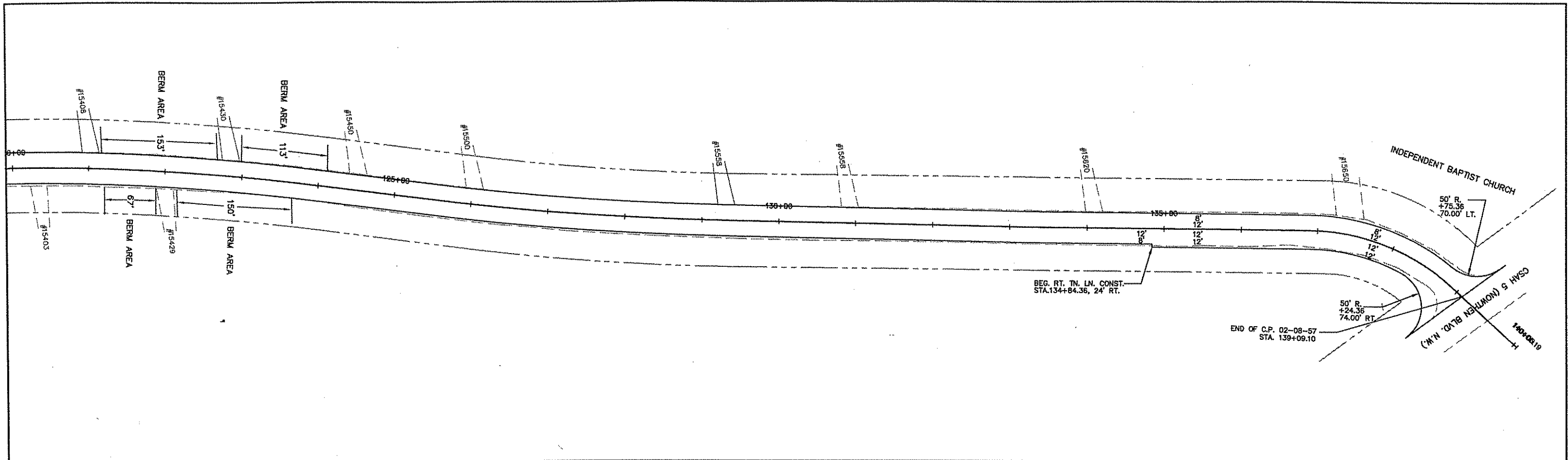
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: PETER M LEMKE
 SIGNATURE: *Peter M Lemke*
 DATE: 07/03/02 REG. NO. 40118

DRAWN BY: KGL DATE 06/27/02
 DESIGN BY: KGL DATE 06/27/02
 CHECKED BY: PMI DATE 07/03/02



STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 02-08-57

PLAN AND PROFILE
 STA 66+00 TO 81+00
 Sheet 12 of 24 Sheets



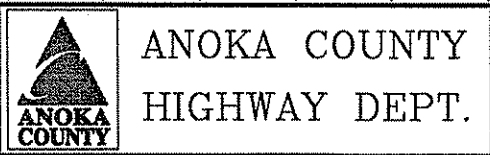
NO	DATE	BY	CHK	APPR	REVISION

NAME: P:\02-01-00\02-08-57\base\020857.dwg 07/08/2002 04:55:08 PM CDT

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.

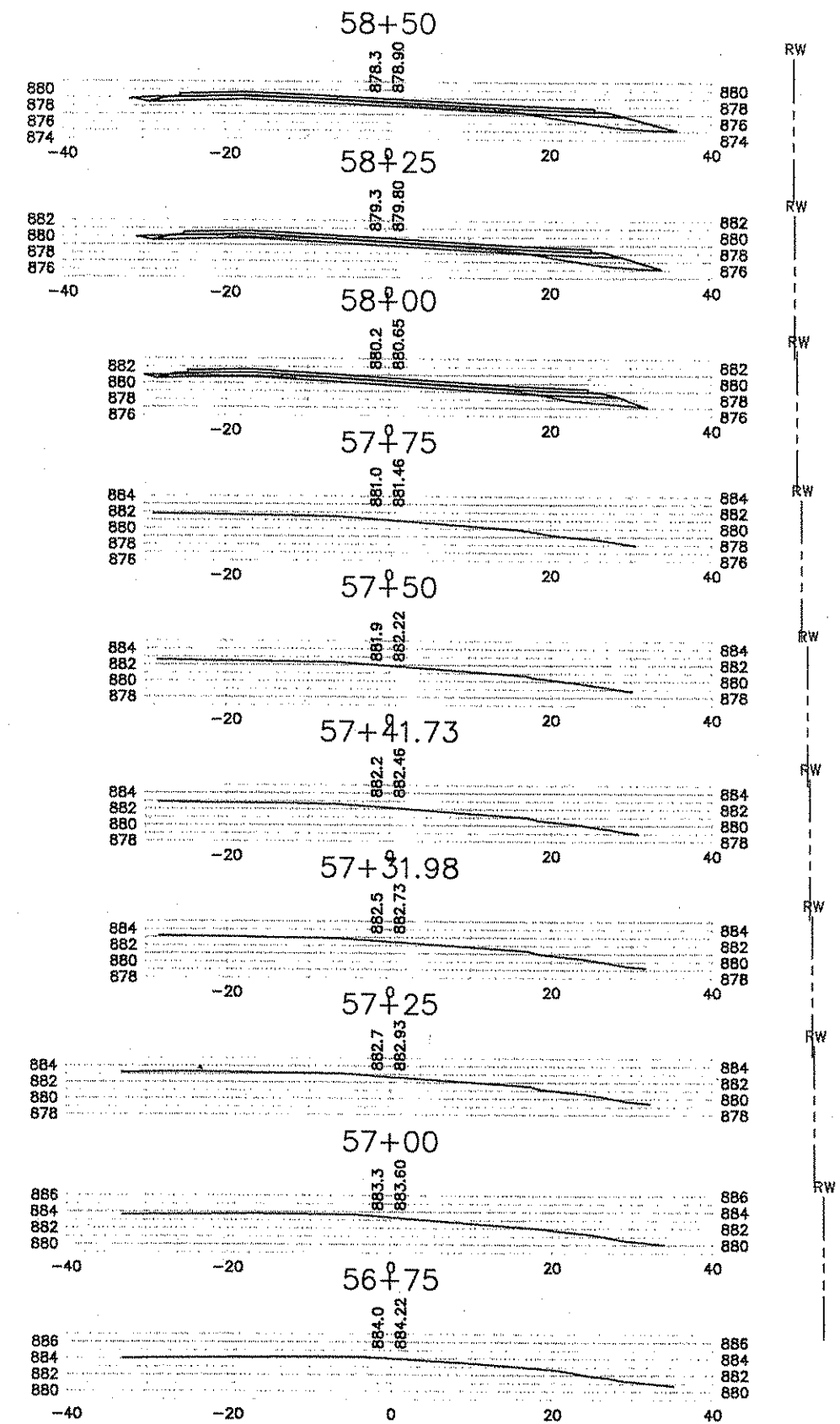
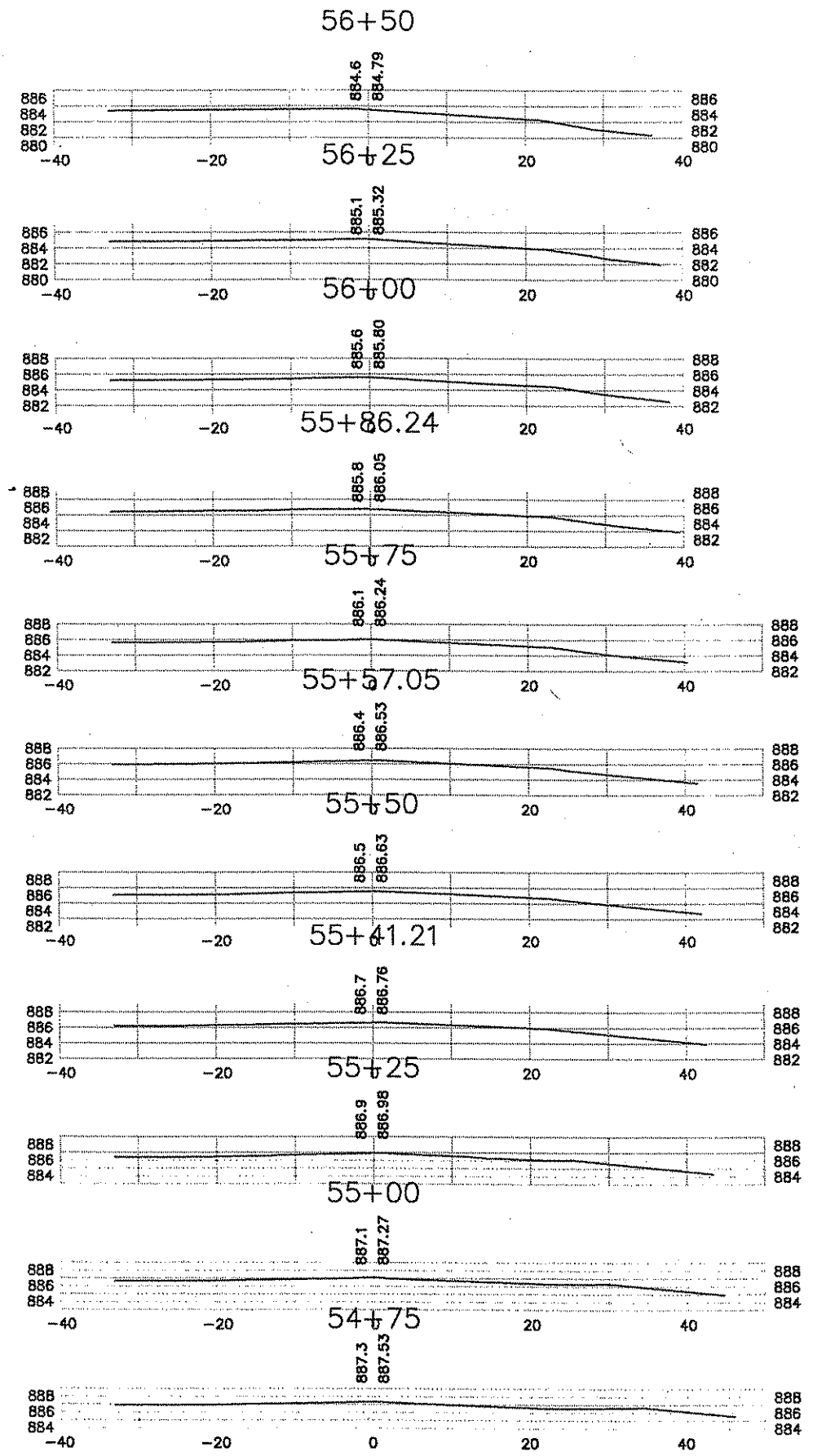
PRINT NAME: PETER M LEMKE
 SIGNATURE: *Peter M Lemke*
 DATE: 07/03/02 REG. NO. 4011B

DRAWN BY: KGL DATE 05/27/02
 DESIGN BY: KGL DATE 08/27/02
 CHECKED BY: EML DATE 07/03/02



STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 02-08-57

PLAN AND PROFILE
 STA 120+00 TO 139+00
 Sheet 13 of 24 Sheets



DIT. ELEV. REPRESENT FINISHED GRADE

NO	DATE	BY	CKD	APPR	REVISION
1	7/23/02	KGJ	MAD	MAD	ADJUSTED X-SECTIONS TO MATCH GRID
NAME: P:\02-01-06\02-08-57\Plan\X-Sections.dwg 07/23/2002 11:45:23 AM CDT					

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

PRINT NAME: PETER M LEMKE

SIGNATURE: _____

DATE: 07/03/02 LICENSE NO. 40118

DRAWN BY: KGJ DATE: 06/27/02

DESIGN BY: KGJ DATE: 06/27/02

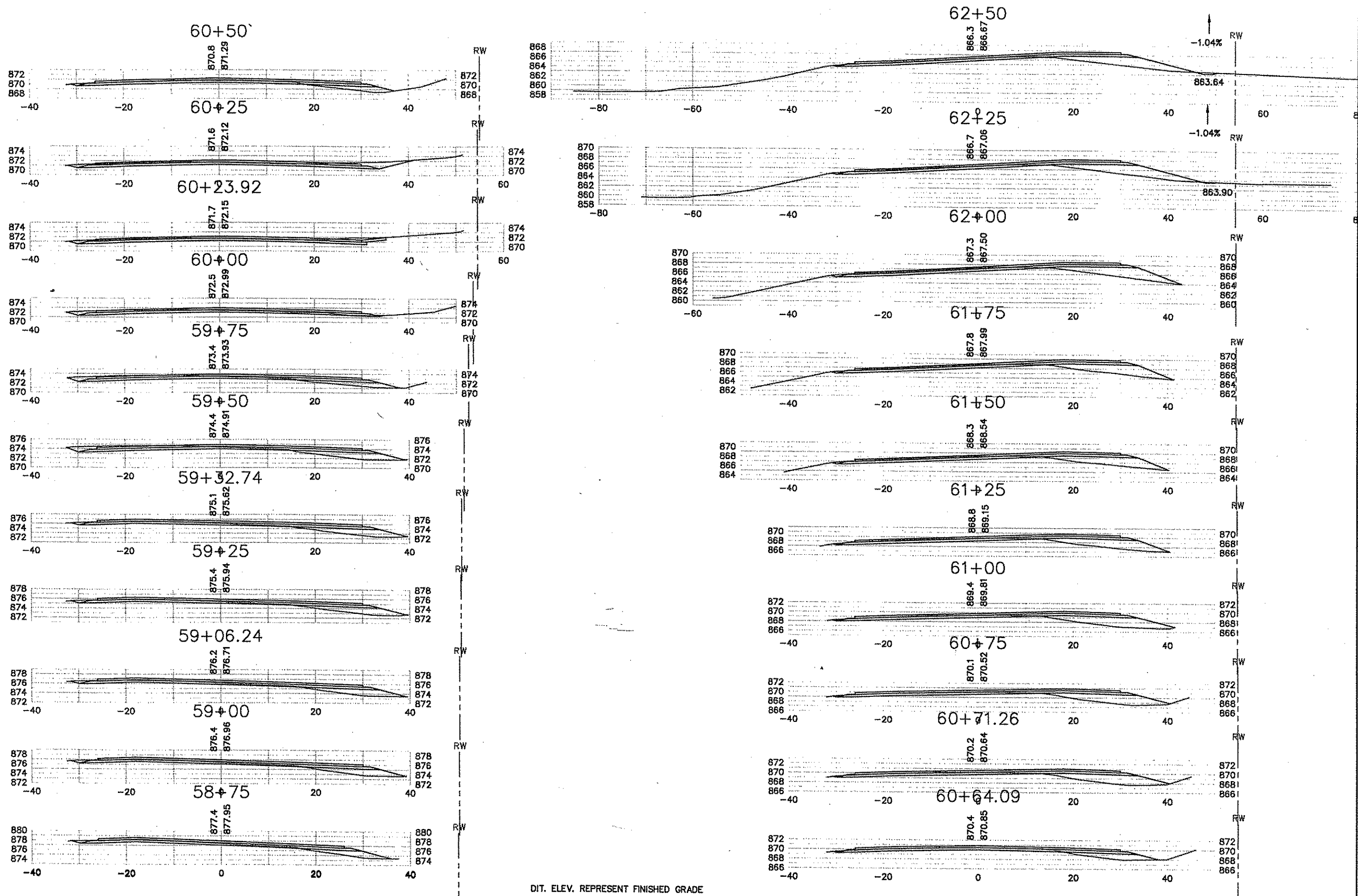
CHECKED BY: PMI DATE: 07/03/02



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
STATE AID PROJECT NO. _____
STATE AID PROJECT NO. _____
COUNTY PROJECT NO. 02-08-57

CROSS SECTIONS
STA 54+75 TO 58+50
Sheet 14 of 24 Sheets



NO	DATE	BY	CHK	APPR	REVISION
1	7/23/02	KGJ	MAD	MAD	ADJUSTED X-SECTIONS TO MATCH GRID

NAME: P:\02-01-00\02-08-57\Plan\X-Section.dwg 07/25/2002 11:45:23 AM CST

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: PETER M LEMKE
 SIGNATURE: _____
 DATE: 07/03/02 LICENSE NO. 40118

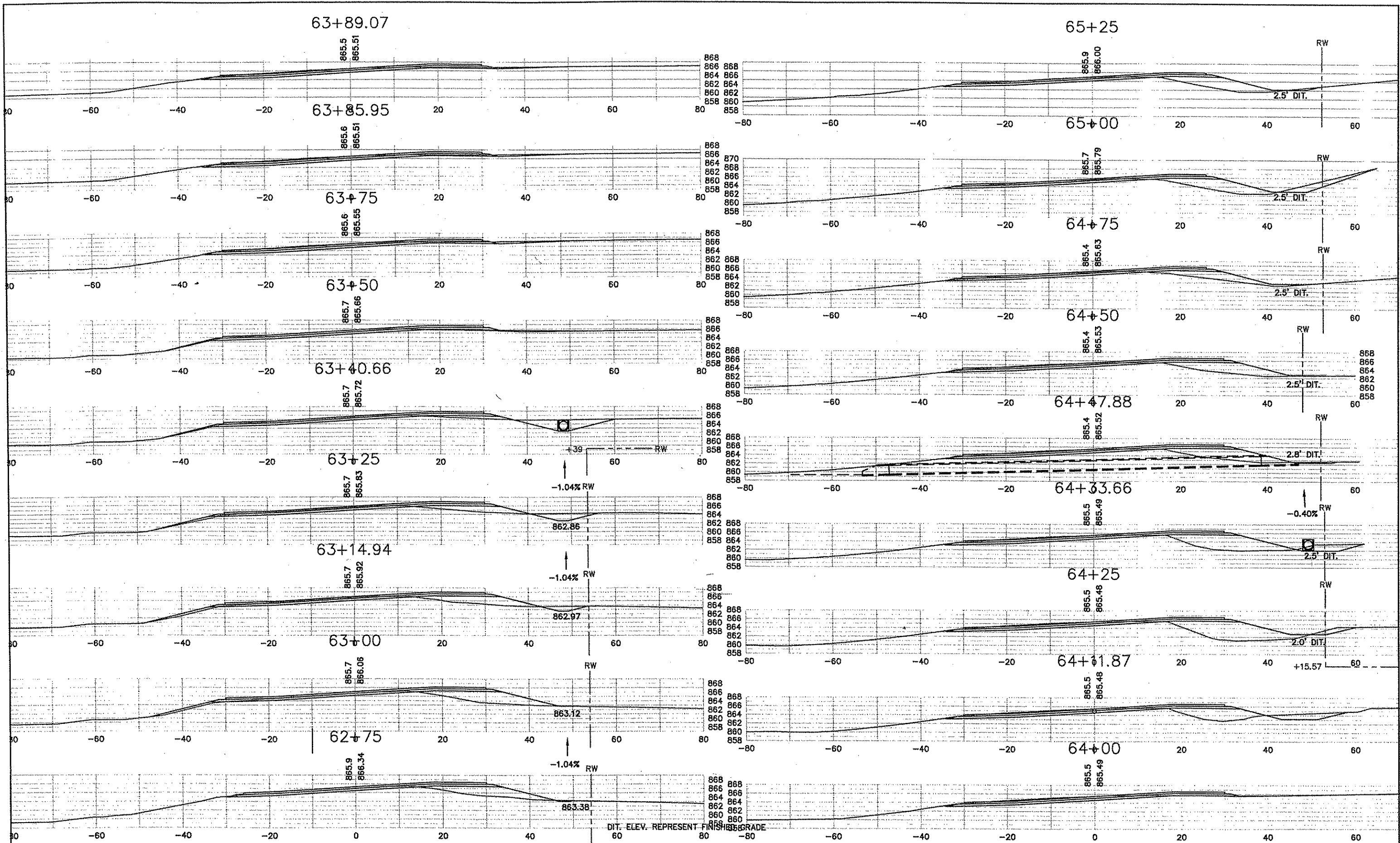
DRAWN BY: KGJ DATE: 06/27/02
 DESIGN BY: KGJ DATE: 06/27/02
 CHECKED BY: EMI DATE: 07/03/02



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 02-08-57

CROSS SECTIONS
 STA 58+75 TO 62+50
 Sheet 15 of 24 Sheets



NO	DATE	BY	CHKD	APPR	REVISION
1	7/27/02	KGJ	MAD	MAD	ADJUSTED X-SECTIONS TO MATCH GRID

NAME: P:\02-01-00\02-08-57\Plan\X-Sections.dwg 07/25/2002 11:45:23 AM CDT

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

PRINT NAME: PETER M LEMKE
 SIGNATURE: _____
 DATE: 07/03/02 LICENSE NO. 40118

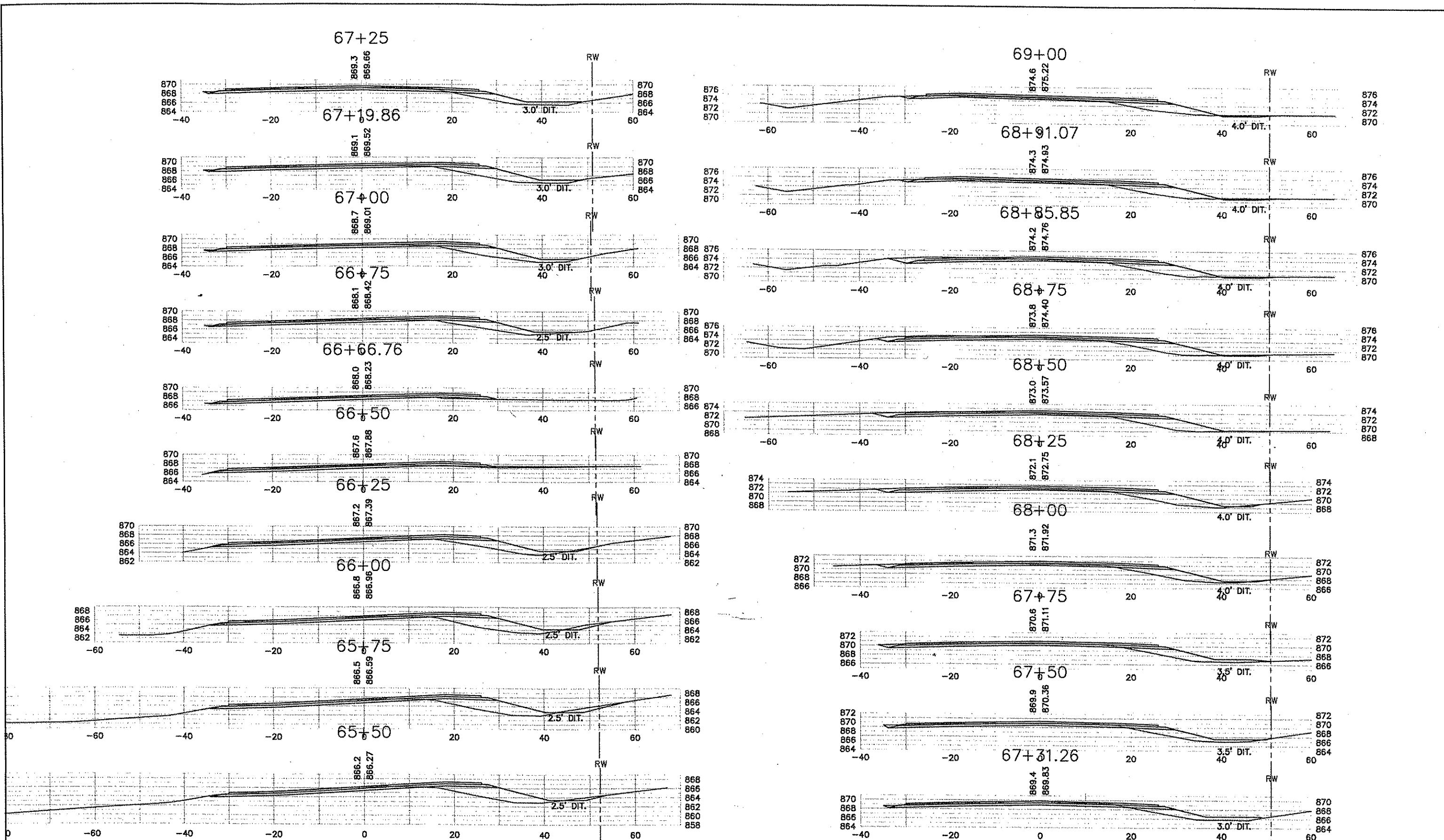
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 DESIGN BY: KGJ DATE: 06/27/02
 CHECKED BY: PMI DATE: 07/03/02



ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 02-08-57

CROSS SECTIONS
 STA 62+75 TO 65+25
 Sheet 16 of 24 Sheets



DIT. ELEV. REPRESENT FINISHED GRADE

NO	DATE	BY	CHKD	APPR	REVISION
1	7/23/02	KGJ	MAD	MAD	ADJUSTED X-SECTIONS TO MATCH GRID
NAME: P:\02-01-00\02-08-57\Plan\X-Sections.dwg 07/25/2002 11:45:23 AM EDT					

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: PETER M LEMKE
 SIGNATURE: _____
 DATE: 07/03/02 LICENSE NO. 40118

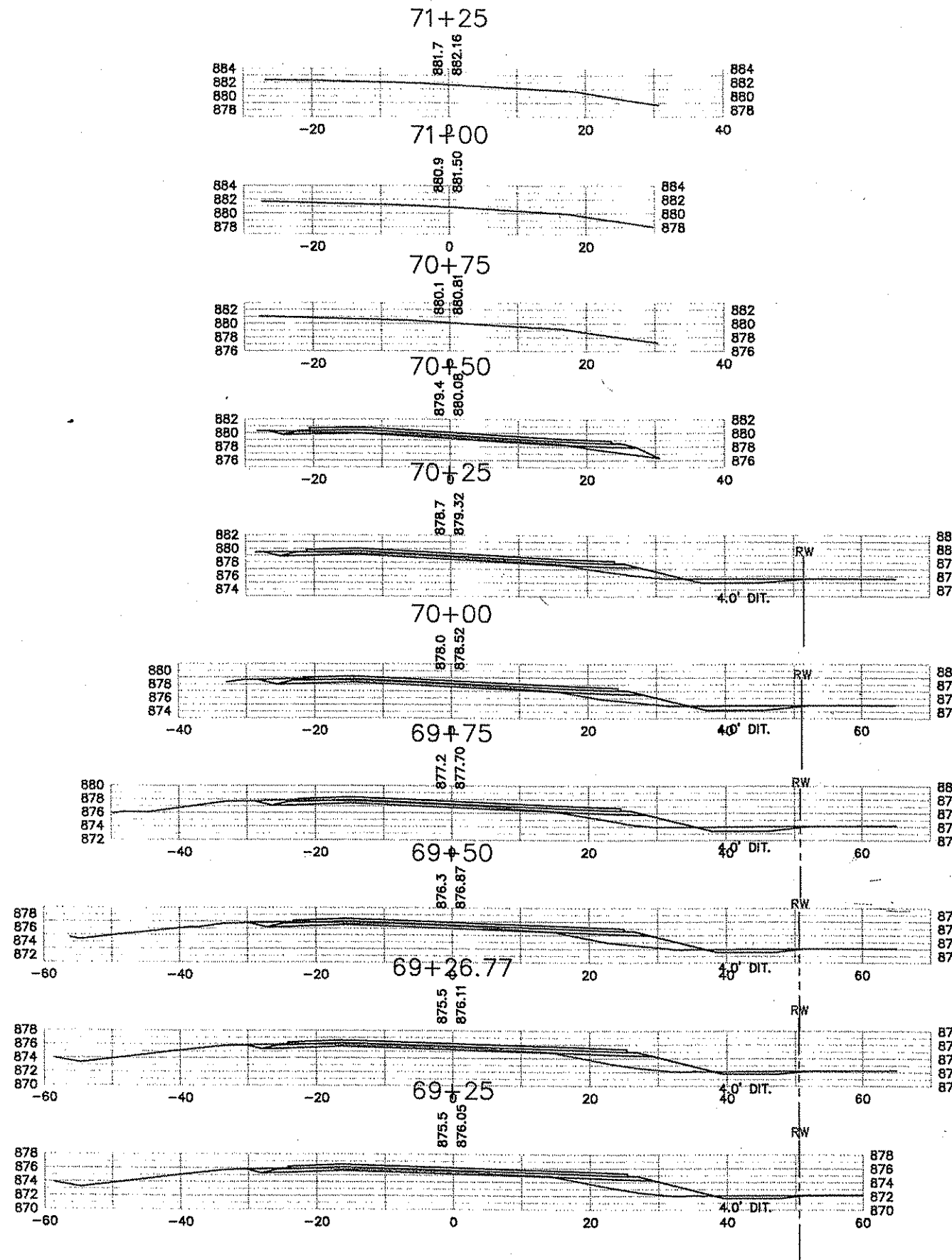
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 CHECKED BY: PMI DATE: 07/03/02



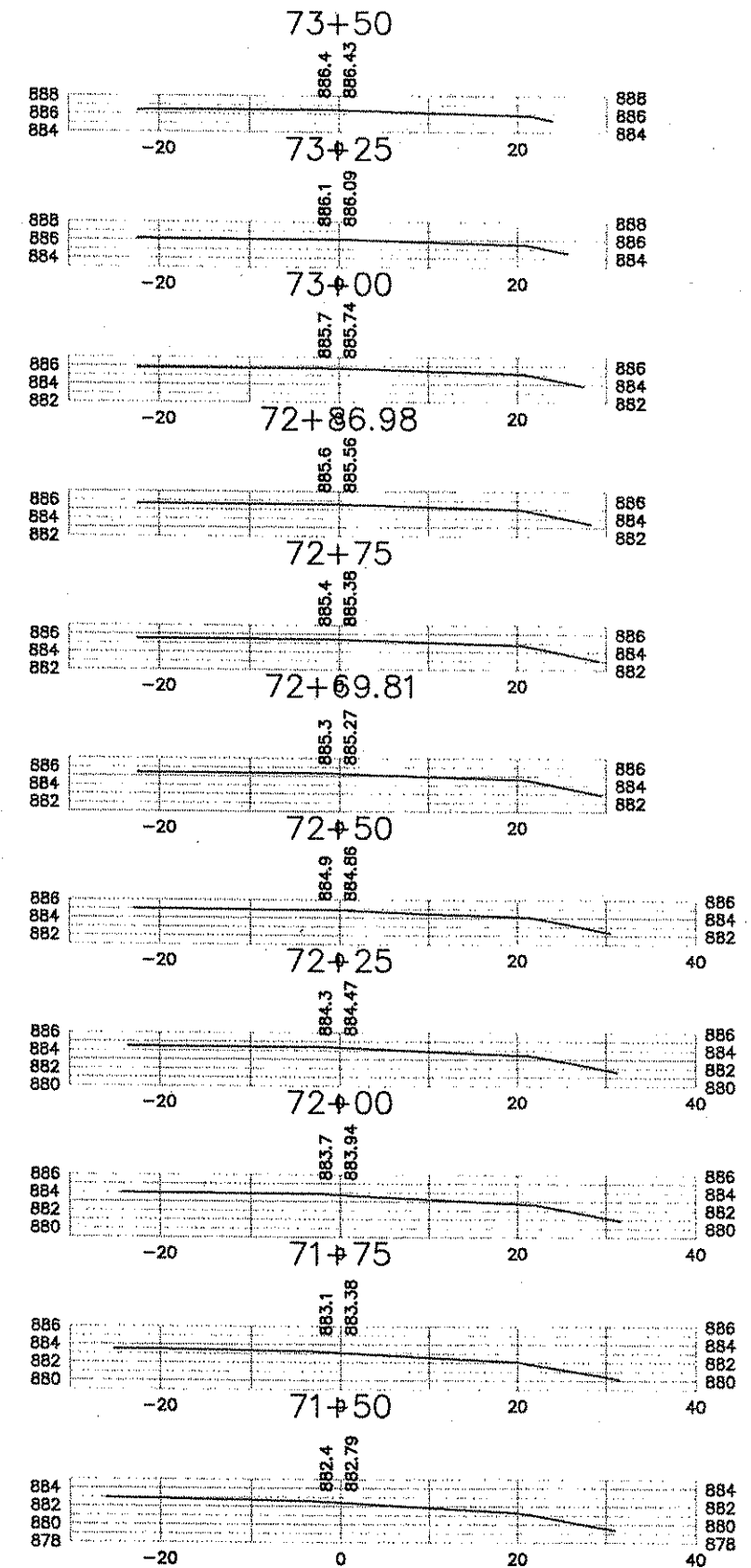
ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 02-08-57

CROSS SECTIONS
 STA 65+50 TO 69+00
 Sheet 17 of 24 Sheets



DIT. ELEV. REPRESENT FINISHED GRADE

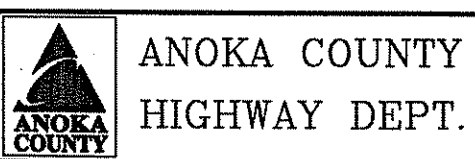


NO	DATE	BY	CKD	APPR	REVISION
1	7/23/02	KGJ	MAD	MAD	ADJUSTED X-SECTIONS TO MATCH GRID

NAME: P:\02-01-00\02-08-57\Plan\X-Section.dwg 07/25/2002 11:45:23 AM EDT

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: PETER M LEMKE
 SIGNATURE: _____
 DATE: 07/03/02 LICENSE NO. 40118

DRAWN BY: KGJ DATE: 06/27/02
 DESIGN BY: KGJ DATE: 06/27/02
 CHECKED BY: PML DATE: 07/03/02

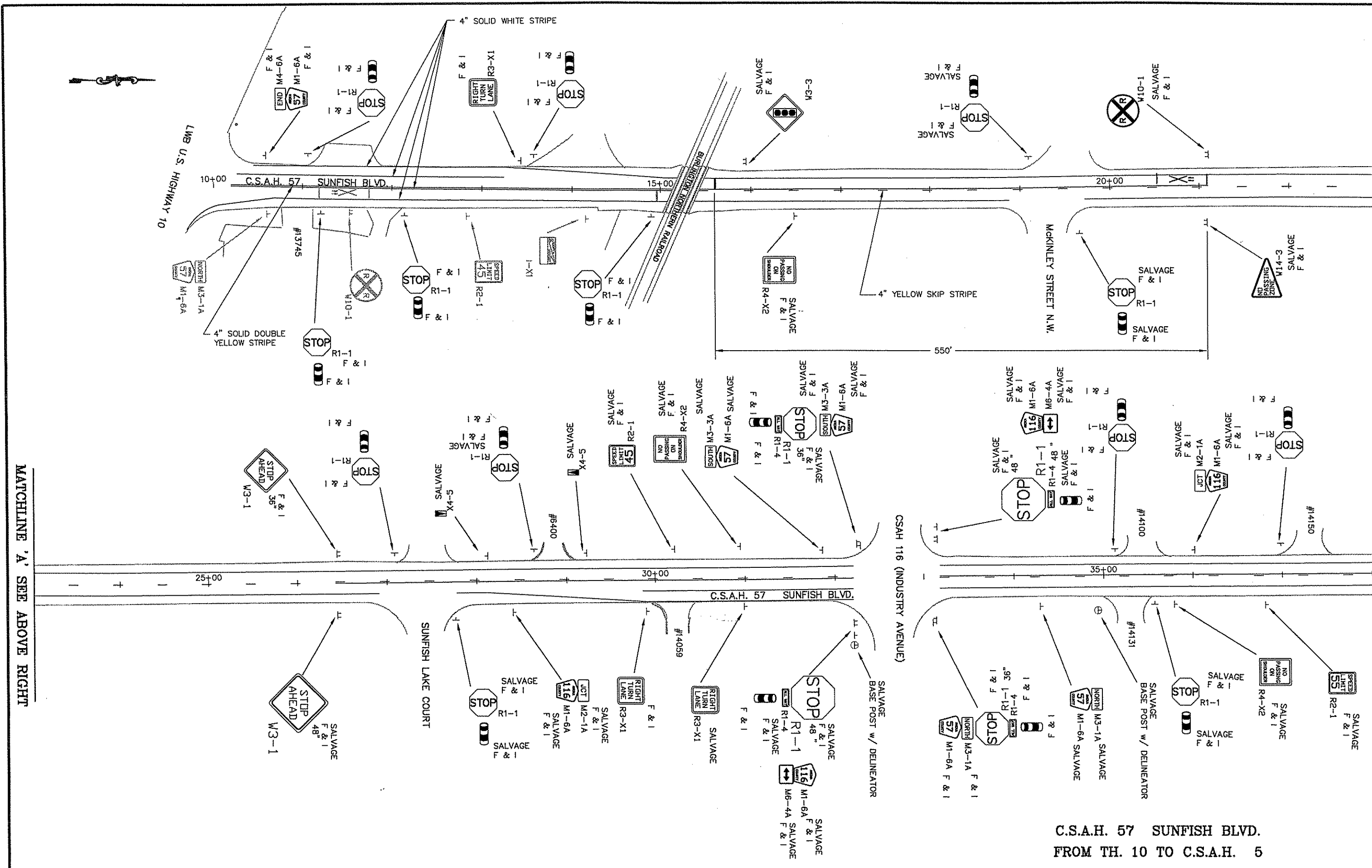


STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 02-08-57

CROSS SECTIONS
 STA 69+25 TO 73+50
 Sheet 18 of 24 Sheets

MATCHLINE 'A' SEE BELOW LEFT

MATCHLINE 'B' SEE SHEET 2 of 6



MATCHLINE 'A' SEE ABOVE RIGHT

C.S.A.H. 57 SUNFISH BLVD.
FROM TH. 10 TO C.S.A.H. 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.
 PRINT NAME: PETER M. LEMKE
 SIGNATURE: Peter M. Lemke
 DATE: 07-09-02 REG. NO. 40118

DRAWN BY: DM DATE: 07/3/02
 DESIGN BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____

ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 02-08-57

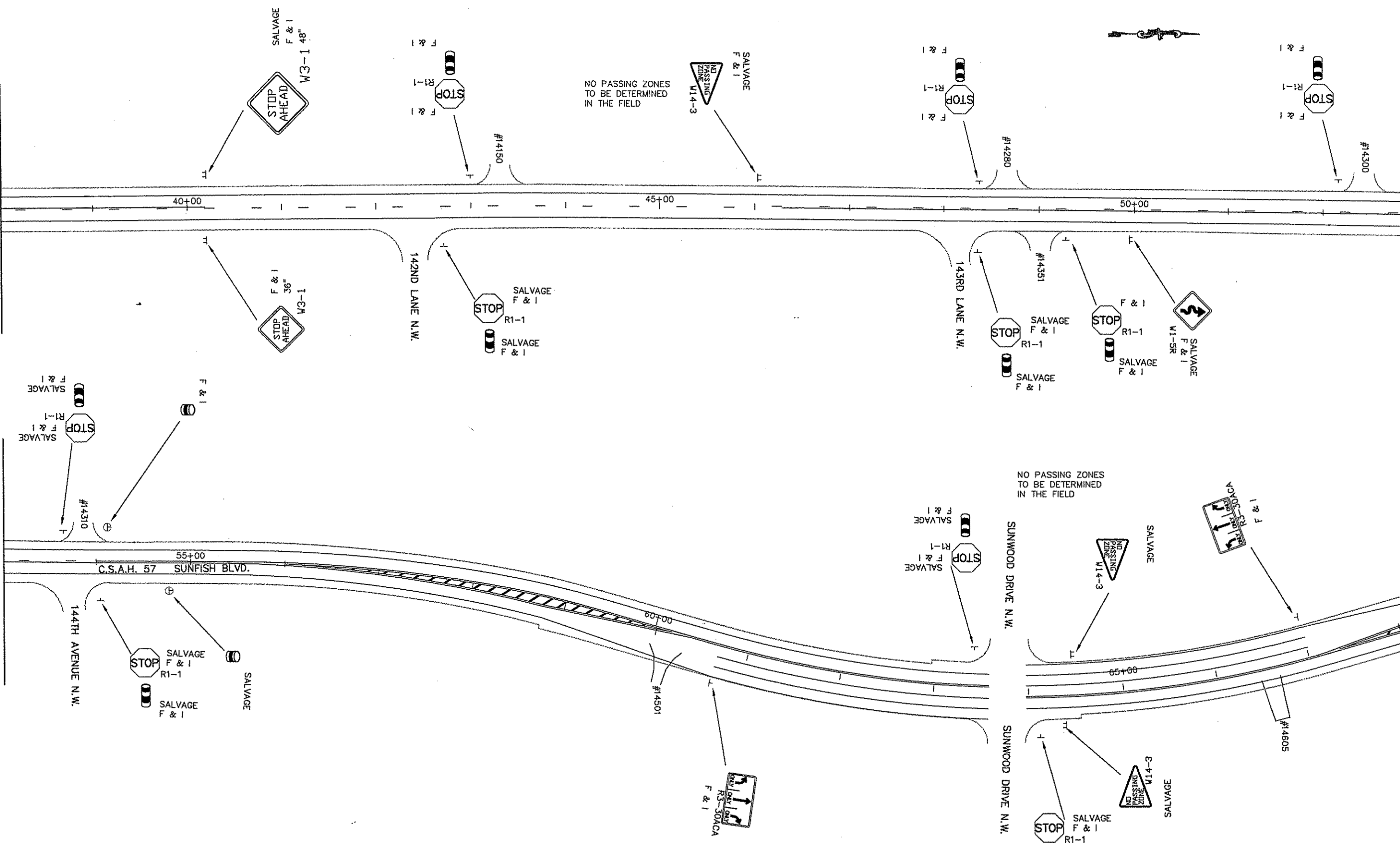
PERMANENT
SIGN / STRIPING
 Sheet 19 of 24 Sheets

MATCHLINE 'B' SEE SHEET 1 of 6

MATCHLINE 'C' SEE ABOVE RIGHT

MATCHLINE 'C' SEE BELOW LEFT

MATCHLINE 'D' SEE SHEET 3 of 6



C.S.A.H. 57 SUNFISH BLVD.
FROM TH. 10 TO C.S.A.H. 5

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.

PRINT NAME: PETER M. LEMKE
 SIGNATURE: *Peter M. Lemke*
 DATE: 07-09-02 REG. NO. 40118

DRAWN BY: DM DATE 07/3/02
 DESIGN BY: _____ DATE _____
 CHECKED BY: _____ DATE _____



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 02-08-57

PERMANENT
SIGN / STRIPING

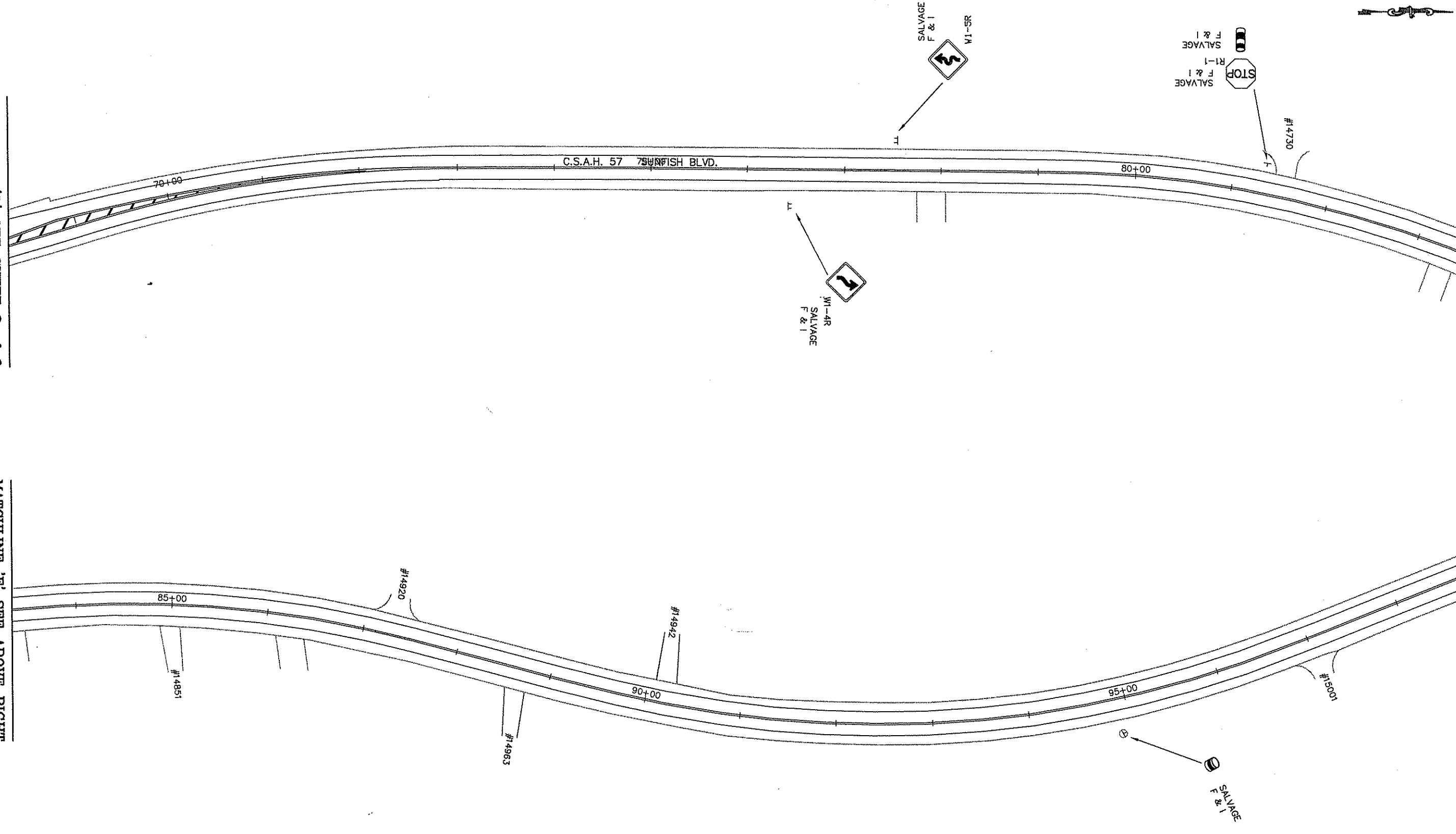
Sheet 20 of 24 Sheets

MATCHLINE 'D' SEE SHEET 2 of 6

MATCHLINE 'E' SEE ABOVE RIGHT

MATCHLINE 'E' SEE BELOW LEFT

MATCHLINE 'F' SEE SHEET 4 of 6



C.S.A.H. 57 SUNFISH BLVD.
FROM TH. 10 TO C.S.A.H. 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.

PRINT NAME: PETER M. LEMKE
 SIGNATURE: *Peter M. Lemke*
 DATE: 07-09-02 REG. NO. 40118

DRAWN BY: DM DATE: 07/3/02
 DESIGN BY: DATE: _____
 CHECKED BY: DATE: _____



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 02-08-57

PERMANENT
SIGN / STRIPING

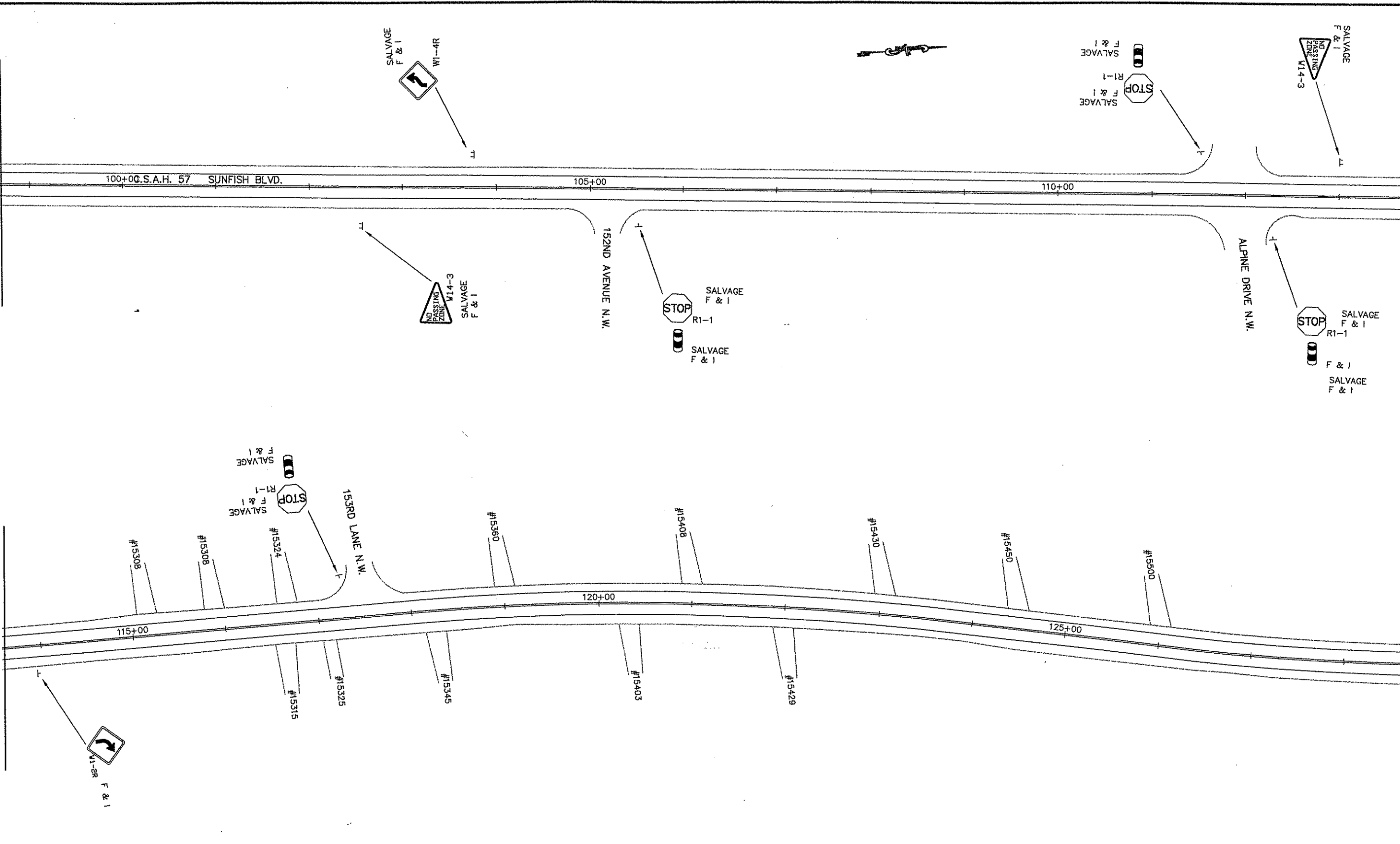
Sheet 21 of 24 Sheets

MATCHLINE 'F' SEE SHEET 3 OF 6

MATCHLINE 'G' SEE ABOVE RIGHT

MATCHLINE 'G' SEE BELOW LEFT

MATCHLINE 'H' SEE SHEET 5 OF 6

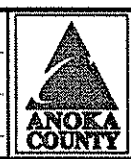


C.S.A.H. 57 SUNFISH BLVD.
FROM TH. 10 TO C.S.A.H. 5

NO	DATE	BY	CKD	APPR	REVISION

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DRAWN BY: DM DATE 07/3/02
 DESIGN BY: DATE
 CHECKED BY: DATE

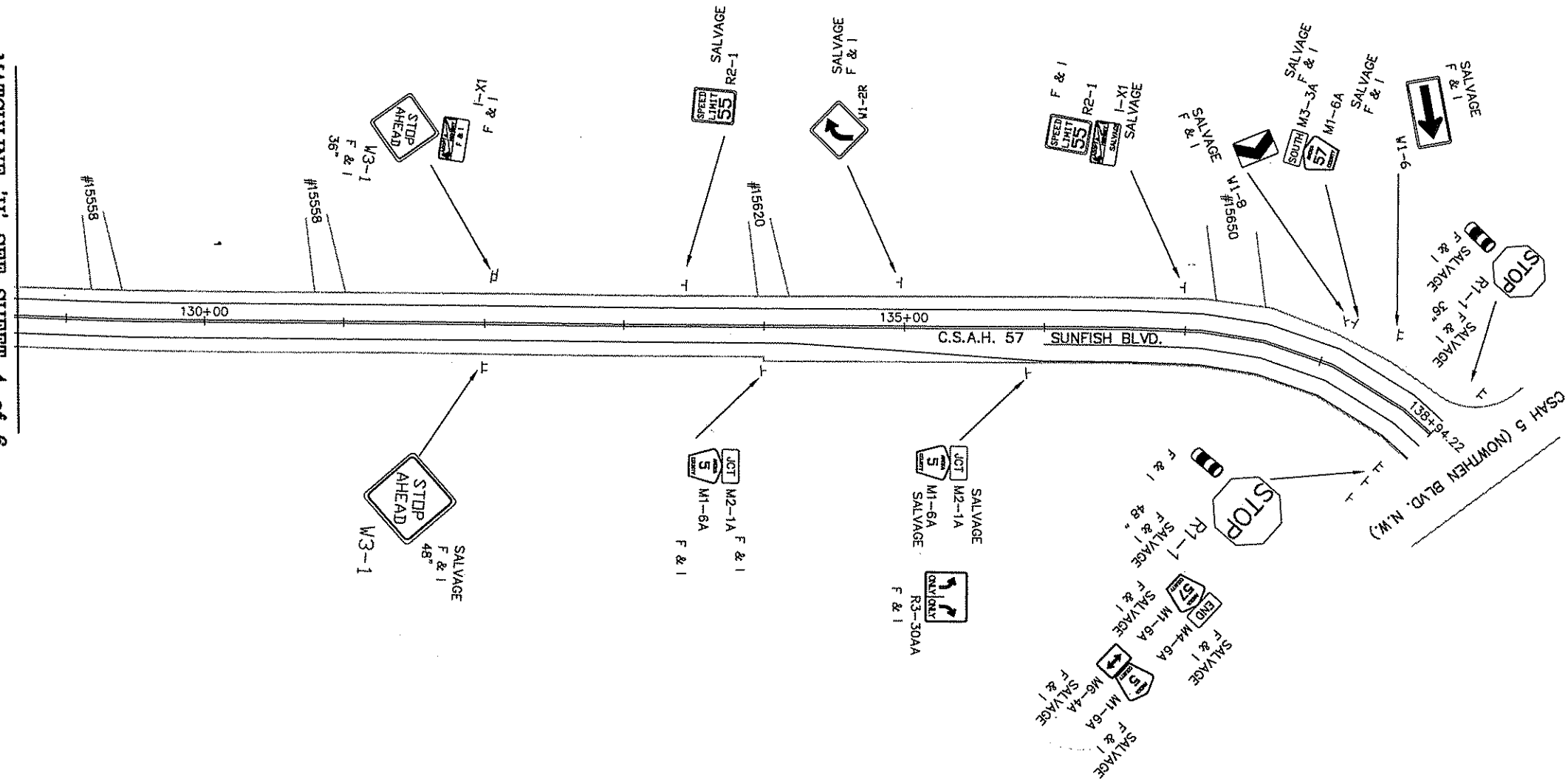


ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 02-08-57

PERMANENT
SIGN / STRIPING
 Sheet 22 of 24 Sheets

MATCHLINE 'H' SEE SHEET 4 of 6



C.S.A.H. 57 SUNFISH BLVD.
FROM TH. 10 TO C.S.A.H. 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.
 PRINT NAME: PETER M. LEMKE
 SIGNATURE: *Peter M. Lemke*
 DATE: 07-09-02 REG. NO. 40118

DRAWN BY: DM DATE 07/3/02
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**ANOKA COUNTY
HIGHWAY DEPT.**

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 02-08-57

**PERMANENT
SIGN / STRIPING**
 Sheet 23 of 24 Sheets

M. U. T. C. D. CODE	SIZE	INSERT	QTY	SQ. FT.	TOTAL SQ. FT.	MOUNTING POST PER INSTALLATION	MOUNTING HEIGHT	M. U. T. C. D. CODE	SIZE	INSERT	QTY	SQ. FT.	TOTAL SQ. FT.	MOUNTING POST PER INSTALLATION	MOUNTING HEIGHT	
R1-1	30" x 30"		27	6.25	168.75	1	7.0	W1-8	18" x 24"		1	3.00	3.00	1	5.0	
R1-1	36" x 36"	STOP	3	9.00	27.00	2	7.0	W3-3	36" x 36"		1	9.00	9.00	2	7.0	
R1-1	48" x 48"		3	16.00	48.00	2	7.0	W10-1	36" x 36"		1	7.00	7.00	2	7.0	
R1-4	18" x 6"	ALL WAY	4	.75	3.00			W14-3	36"x48"x48"		4	12.00	48.00	2	7.0	
R2-1	24" x 30"	SPEED LIMIT 45	1	5.00	5.00	1	7.0	I-X1	30" x 24"		1	5.00	5.00	1	7.0	
R2-1	24" x 30"	SPEED LIMIT 55	2	5.00	10.00	1	7.0		24" x 15"	JCT M2-1A	1	2.50	2.50			
R3-X1	30" x 30"	RIGHT TURN LANE	3	6.25	18.75	1	7.0	M1-6A	24" x 24"		2	4.00	8.00	1	7.0	
R3-30AA	36" x 30"		1	7.50	7.50	1	7.0		21" x 15"	M6-4A	1	2.20	2.20			
R30-ACA	54" x 30"		2	11.25	22.50	2	7.0		24" x 15"	JCT M2-1A	2	2.50	5.00			
R4-X2	30" x 36"	NO PASSING ON SHOULDER	3	7.50	22.50	1	7.0	M1-6A	24" x 24"		4	4.00	16.00	1	7.0	
W1-2R	30" x 30"		2	6.25	12.50	1	7.0		21" x 15"	M6-4A	2	2.20	4.40			
W1-4R	30" x 30"		2	6.25	12.50	1	7.0		24" x 12"	END M4-6A	2	2.00	4.00			
W1-5R	30" x 30"		2	6.25	12.50	1	7.0		24" x 12"	NORTH M3-1A	1	2.00	2.00			
W1-6	48" x 24"		1	8.00	8.00	2	7.0		24" x 12"	SOUTH M3-3A	2	2.00	2.00			
W3-1	36" x 36"	STOP AHEAD	3	9.00	27.00	2	7.0	M1-6A	24" x 24"		6	4.00	24.00			
W3-1	48" x 48"		3	16.00	48.00	2	7.0	DELINEATOR	4"DIA x 15"		33	0.87	28.70			
			SUB-TOTAL		450.30			TERMINAL POST	4"DIA x 4"		4	0.35	1.40	1	5.0	
												SUB-TOTAL (COLUMN 2)		196.20		
												SUB-TOTAL (COLUMN 1)		455.30		
												TOTAL		646.50		

- ① MOUNTED BACK TO BACK w/ W3-1
- ② 1 MOUNTED BACK TO BACK WITH R1-1 (36"x36")
- ③ MOUNTED BELOW ALL R1-1

NOTE:

- 1.) LOCATIONS OF 'NO PASSING ZONES' ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD
- 2.) ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL

C.S.A.H. 57 SUNFISH BLVD.
FROM TH. 10 TO C.S.A.H. 5

NO	DATE	BY	CHK	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.
PRINT NAME: PETER M. LEMKE
SIGNATURE: *Peter M. Lemke*
DATE: 07-09-02 REG. NO. 40118

DRAWN BY: DM DATE: 07/3/02
DESIGN BY: DATE:
CHECKED BY: DATE:
DATE: 07-09-02 REG. NO. 40118

ANOKA COUNTY HIGHWAY DEPT.

STATE PROJECT NO. _____
STATE AID PROJECT NO. _____
STATE AID PROJECT NO. _____
COUNTY PROJECT NO. 02-08-57

PERMANENT SIGN / STRIPING
Sheet 24 of 24 Sheets

PLAN SYMBOLS

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

- LOWLAND.....
- TIMBER.....
- ORCHARD.....
- BRUSH.....
- NURSERY.....

- CATTLE GUARD.....

- OVERPASS (Highway Over).....

- UNDERPASS (Highway Under).....

- BRIDGE.....

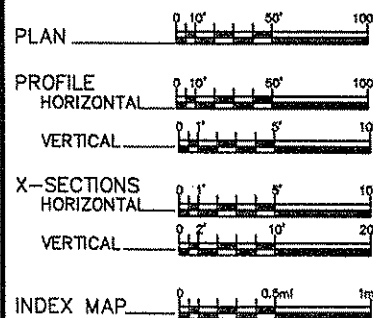
- BUILDING (One Story Frame).....
- F-FRAME C-CONCRETE.....
- S-STONE T-TILE.....
- B-BRICK ST-STUCCO.....

- 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 Terminals).....
- GAS MAIN.....
- WATER MAIN.....
- 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

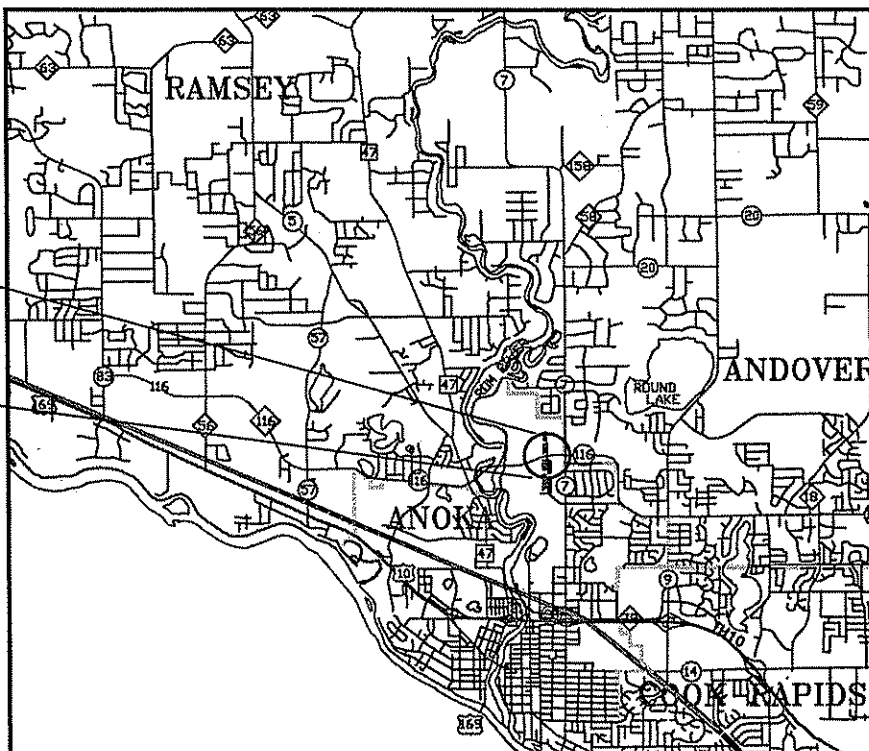
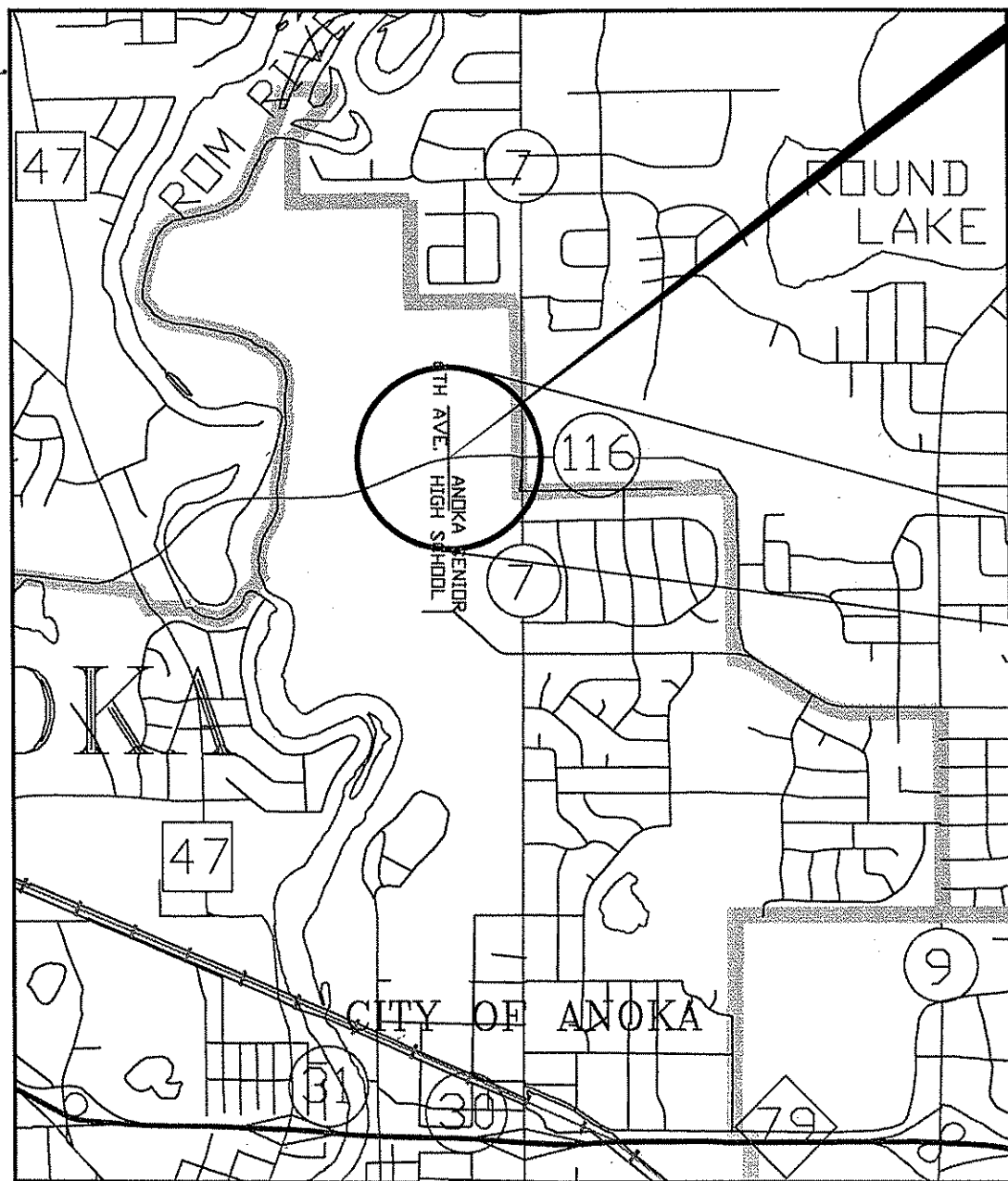


MINNESOTA DEPARTMENT OF TRANSPORTATION
ANOKA COUNTY

CONSTRUCTION PLAN FOR GRADING, AGG.BASE, BITUMINOUS SURFACING, DRAINAGE AND CURB & GUTTER

LOCATED ON CSAH 116 AT INTERSECTION WITH ANOKA COUNTY LIBRARY AND ENTRANCE TO ANOKA SENIOR HIGH SCHOOL. (Geographic Description)

STA. 144+18.70 TO STA. 149+06.60
AT INTERSECTION
CSAH 116 AND 6TH AVE. AND
ANOKA SENIOR HIGH SCHOOL ENTRANCE



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

GOVERNING SPECIFICATIONS

THE 1995 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MMUTCD, INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS - JANUARY, 2001."

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES AND TABULATION CHARTS
3	EXISTING CONDITIONS AND NEW CONSTRUCTION PLAN
4	SIGNING PLAN AND TABULATION CHARTS

THIS PLAN CONTAINS 4 SHEETS

DESIGN DESIGNATION

ESAL₂₀ 00000000
R VALUE 00
ADT (2001) 00000
Proj. ADT (2021) 00000
Proj. HCADT (2021) 0000
Soil Factor NA
TON DESIGN

Functional Classification XXXXXXXXX
No. of Traffic Lanes 1 No. of Parking Lanes 0
Design Speed 25 MPH
Based on Stopping Sight Distance
Height of eye 3.5' Height of object 0.5'
Design Speed not achieved at:
STA. _____ TO STA. _____ MPH
STA. _____ TO STA. _____ MPH
STA. _____ TO STA. _____ MPH

Approved 7/10/02 *[Signature]*
ANOKA COUNTY ENGINEER

Recommended for Approval _____, 20____
METRO-ASSISTANT DIVISION ENGINEER-STATE AID

Approved for State Aid Division _____, 20____
STATE AID ENGINEER

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

PRINT NAME: LYNDON ROBERT
SIGNATURE: *[Signature]*
DATE: 07/08/02 LICENSE NO. 25066

DRAWN BY: MN DATE 07/03/02

DESIGN BY: MN DATE 07/03/02

CHECKED BY: LAR DATE 07/08/02



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
STATE AID PROJECT NO. _____
COUNTY PROJECT NO. 02-01-00
COUNTY PROJECT NO. 02-28-116

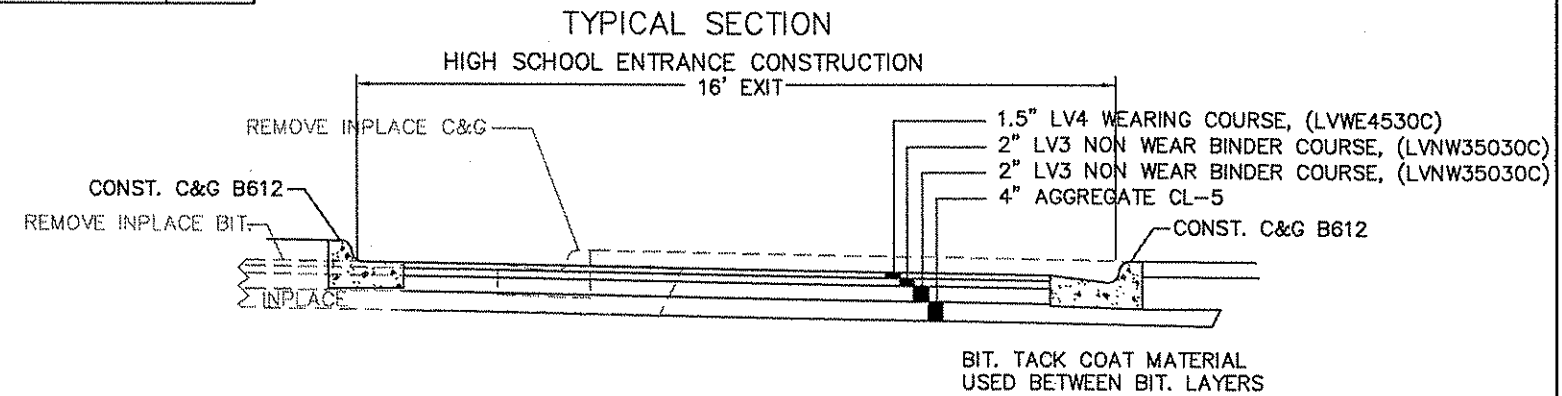
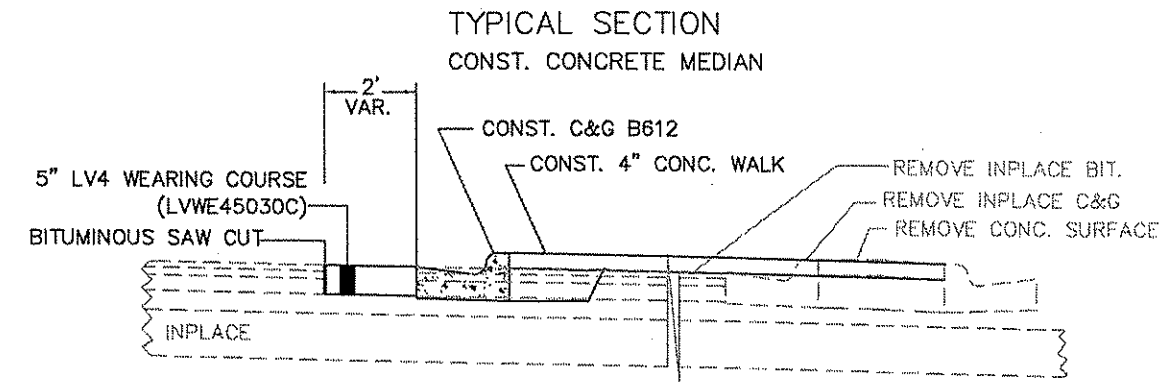
TITLE SHEET

Sheet 01 of 04 Sheets

NO DATE BY CKD APPR REVISION
NAME: P:\02-01-00\02-28-116\01-TITLE.dwg 07/03/2002 07:00:31 PM CDT

STORM SEWER TABULATION													
NO.	STA.	LOC.	REMARKS	MH. OR CB.	TOP CASTING ELEV.	OUTLET ELEV.	DSGN	PAY HT. LN.FT.	DRAINS TO	GRADE IN%	CAST ASSM	F&I 12" RCP LN.FT.	
1	146+10.45	31.10 LT. LEB	NEW CB. STRUCTURE	CB	872.69	867.70	F	5.1	12	1.0	A		
2	144+94.81	31.10 LT. LEB	NEW CB. STRUCTURE	CB	872.15	869.15	H	2.9	13	1.0	A	23	
3	145+13.20	26.30 RT. LEB	NEW CB. STRUCTURE	CB	871.14	868.14	H	2.9	15	5.0	A	5	
10	146+10.45	67.96 LT. LEB	NO CONST. REQD	CB	872.18				1				
11	146+10.45	18.97 LT. LEB	RECONSTRUCT TO MH.	MH	873.02			1.5	12		B		
12	146+10.45	21.00 RT. LEB	NO. CONST. REQD	CB	871.89				15				
13	145+14.36	19.20 LT. LEB	RECONSTRUCT TO MH.	MH	872.67			1.5	14		B		
14	145+14.43	13.10 LT. LEB	RECONSTRUCT AND ADJUST	CB	872.14			1.0	15		A		
15	145+15.03	21.12 RT. LEB	RECONSTRUCT TO MH.	MH	871.38	866.15		2.0	NEXT	1.0	B		
								TOTAL	17.9			28	
SUBTOTAL								DESIGN- F	5.1				
								DESIGN- H	5.8				
								RECONSTRUCT	6.0				

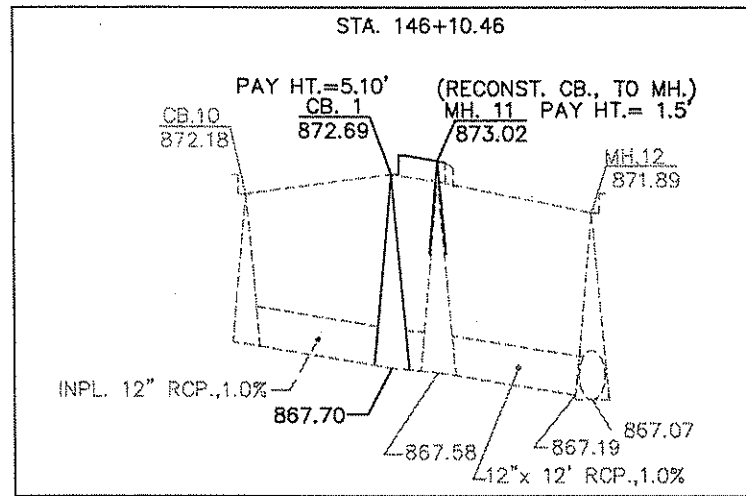
STATEMENT OF ESTIMATED QUANTITIES						
ITEM NO.	ITEM	UNIT	ESTIMATE	FINAL	STORM	
					ESTIMATE	FINAL
2104.501	REMOVE CURB AND GUTTER	LIN.FT.	514			
2104.501	REMOVE SEWER PIPE (STORM)	LIN.FT.	4			
2104.505	REMOVE CONCRETE PAVEMENT	SQ.YD.	122			
2104.505	REMOVE BITUMINOUS PAVEMENT	SQ.YD.	756			
2104.509	REMOVE CASTING	EACH	4			
2104.509	REMOVE HANDHOLE	EACH	2			
2104.511	SAWING CONCRETE PAVEMENT	LIN.FT.	4			
2104.513	SAWING BITUMINOUS PAVEMENT	LIN.FT.	710			
(A)	2105.501	COMMON EXCAVATION	CU.YD.	19		
(B)	2105.521	GRANULAR BORROW (LV)	CU.YD.	170		
(C)	2211.503	AGGREGATE BASE CLASS 5	TON	110		
	2232.501	MILL BITUMINOUS SURFACE, 1.5"	SQ.YD.	76		
	2350.501	TYPE LV 4 WEARING COURSE MIXTURE	TON	7		
	2350.502	TYPE LV 3 NON WEARING COURSE MIXTURE	TON	26		
	2350.604	TYPE LV 4 WEARING COURSE MIXTURE, 5" THICK	SQ.YD.	137		
	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	TON	12		
	2503.541	12" RC PIPE SEWER DESIGN 3006	LIN.FT.		28	
	2503.602	CONNECT TO EXISTING STORM SEWER	EACH		3	
	2506.501	CONST DRAINAGE STRUCTURE DESIGN F	LIN.FT.		5.1	
	2506.501	CONST DRAINAGE STRUCTURE DESIGN H	EACH		5.8	
	2506.503	RECONSTRUCT DRAINAGE STRUCTURE	LIN.FT.		6.0	
	2506.516	CASTING ASSEMBLY	EACH		7	
	2531.501	CONCRETE CURB AND GUTTER DESIGN B612	LIN.FT.	599		
	2531.501	CONCRETE CURB AND GUTTER DESIGN B61B	LIN.FT.	80		
(B)	2521.501	4" CONCRETE WALK	SQ.FT.	5811		
(D)	2521.501	6" CONCRETE WALK	SQ.FT.	174		
	2545.521	4" RIGID STEEL CONDUIT	LIN.FT.	12		
(E)	2550.512	HANDHOLE TYPE-PVC METAL FRAME & COVER	EACH	2		
(F)	2563.601	TRAFFIC CONTROL	LS	1		
	2564.531	F&I SIGN PANEL, TYPE C	SQ.FT.	59		
	2564.602	TEMPORARY RELOCATE SIGN TYPE C	EACH	6		
	2564.603	4" SOLID LINE WHITE-PAINT	LIN.FT.	65		
	2564.603	4" SOLID LINE YELLOW-PAINT	LIN.FT.	100		
	2564.603	4" DOUBLE SOLID LINE YELLOW-PAINT	LIN.FT.	205		
	2564.603	24" SOLID LINE YELLOW-PAINT	LIN.FT.	37		
(G)	2575.523	EROSION CONTROL BLANKETS CATEGORY 2	SQ.YD.	40		



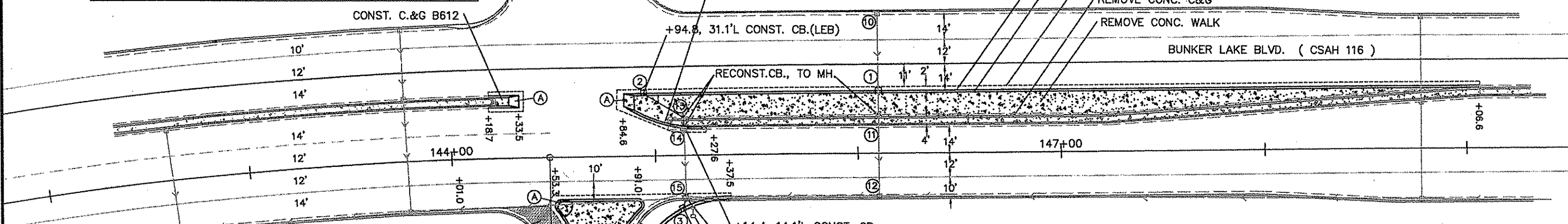
STANDARD PLATES	
THESE STANDARD PLATES AS APPROVED BY THE FHWA SHALL APPLY.	
PLATE NO.	DESCRIPTION
3000 L	REINFORCED CONCRETE PIPE
3006 G	GASKET JOINT FOR R.C. PIPE
4005 L	MANHOLE OR CATCH BASIN (DESIGN F)
4006 L	MANHOLE OR CATCH BASIN (DESIGN G OR H)
4101 D	RING CASTING FOR MANHOLE
4110 F	RING CASTING FOR MANHOLE
4126 F	CATCH BASIN FRAME CASTING
4149 C	GRATE CASTING FOR CATCH BASIN
4161 F	CURB BOX CASTING FOR CATCH BASIN
7100 G	CONCRETE CURB AND GUTTER (DESIGN B)
7113 A	CONCRETE APPROACH NOSE DETAIL
7111 J	INSTALLATION OF CATCH BASIN CASTINGS
8114 A	PVC HANHOLE/PULLBOX
SEE TRAFFIC SIGNAL PLAN SHEETS FOR ADDITIONAL STANDARD PLATES	

- (A) CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL AND ALL RELATED COSTS SHALL BE INCIDENTAL TO CONSTRUCTION AS A WHOLE.
- (B) FOR CONC. MEDIAN CONSTRUCTIN.
- (C) FOR NEW HIGH SCHOOL EXIT RADIUS ADDITION.
- (D) FOR CONC. MEDIAN NOSE (SEE STAND. PLATE NO. 7113A)
- (E) NEW LOCATION IS 4' BACK OF NEW CURB.
- (F) BY FIELD MANUAL.
- (G) FOR RESTORATION OF DISTURBED AREAS BEHIND THE NEW CURB. (BID PRICE PER SQ. YD. SHALL INCLUDE 0.10 POUND SEED MIXTURE 50B AND 0.10 POUND/SQ.YD. FERTILIZER ANALYSIS 22-5-10, -SLOW RELEASE)

CASTING ASSEMBLY SUMMERY				
ASSE.	RING OR FRAME CAST.	COVER OR GRATE CASTING	CURB BOX CASTING	QUANT.
A	801	810	721B	4
B	700-7	716		3

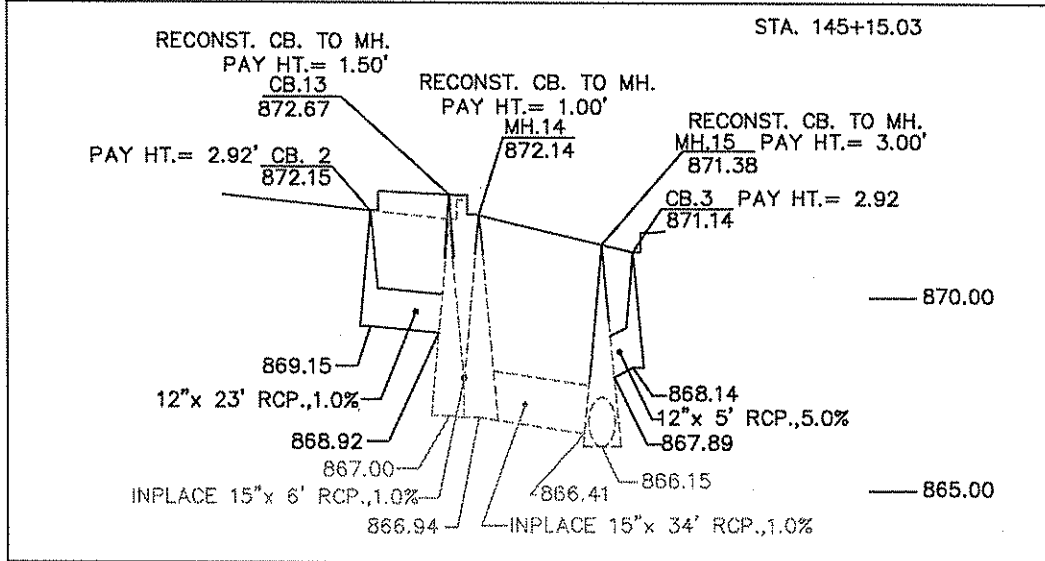


ANOKA COUNTY LIBRARY 6TH AVE.



1.5" MILL BITUMINOUS SURFACE.
 CEN 41' RAD
 +19.1, 50.9'R
 BEGIN TAPER +60.6, 46.0'R
 BITUMINOUS SAWCUT
 B612 +62.8, 71.6'R
 (18' FROM FACE OF CURB)
 B612 +73.4, 71.6'R

+14.4, 14.1'L CONST. CB.
 RECONSTRUCT CB. TO MH.
 REMOVE & RECONSTRUCT HANDHOLE.
 +13.2, 26.3'L CONST. CB.
 REMOVE CONC. CURB
 CEN 50' RAD
 +36.4, 71.9'R
 BEGIN B618 +86.39, 73.7'R



(A) SEE STAND. PLATE 7113A

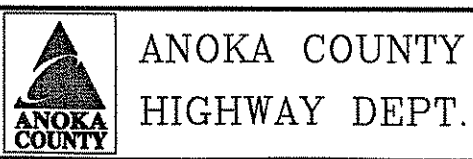
NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-01-00\02-28-116\Base\02-28-116.dwg 07/03/2002 05:10:15 PM CDT

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

PRINT NAME: ARON ROBERT
 SIGNATURE: [Signature]
 DATE: 07/02/02 LICENSE NO. 25066

DRAWN BY: MN DATE 00/00/00
 DESIGN BY: LAR DATE 00/00/00
 CHECKED BY: LAR DATE 00/00/00



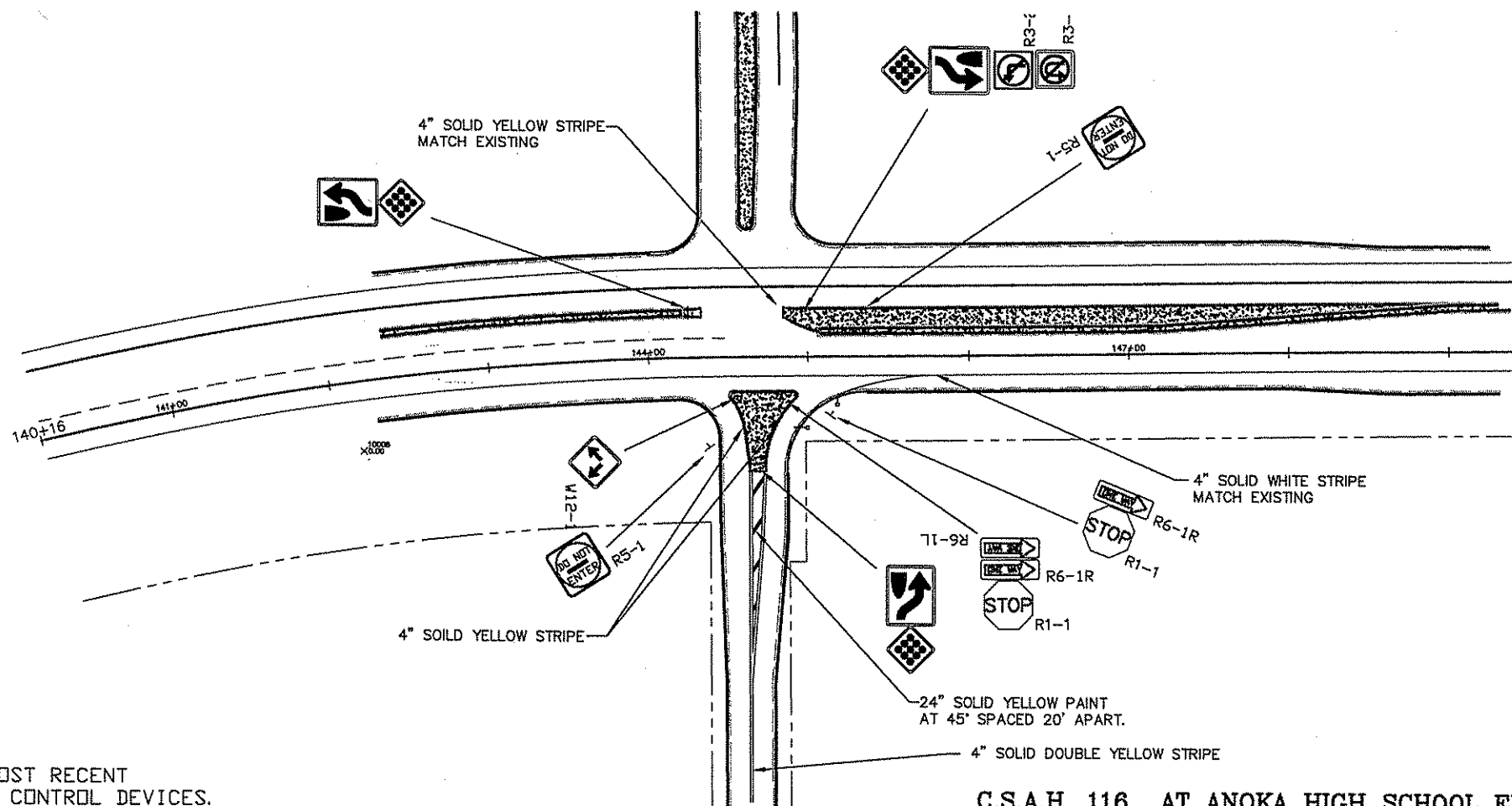
STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 02-01-00
 COUNTY PROJECT NO. 02-28-116

PLAN & CHART SHEET
 STA 143+00 TO 149+50.00
 Sheet 3 of 4 Sheets

M. U. T. C. D. CODE	SIZE	INSERT	QTY	SQ. FT.	TOTAL SQ. FT.	MOUNTING POST PER INSTALLATION	MOUNTING HEIGHT
R1-1	30" x 30"	STOP	2	6.25	12.50	1	7.0
R3-2	24" x 24"		1	4.00	4.00	①	
R3-4	24" x 24"		1	4.00	4.00	①	
R4-7	24" x 30"		3	5.00	15.00	1	7.0
X4-2	18" x 18"		3	1.00	6.00		
R5-1	30" x 30"	DO NOT ENTER	2	6.25	12.50	1	7.0
R6-1R	36" x 12"	ONE WAY	1	3.00	3.00	②	
R6-1L	36" x 12"	ONE WAY	1	3.00	3.00	②	
W12-1	18" x 18"		1	1.00	1.00	1	5.0
TOTAL					59.00		

- ① MOUNTED BACK TO BACK w/ R4-7
- ② MOUNTED ABOVE R1-1

4" SOLID WHITE PAINT 65'
4" SOLID YELLOW PAINT 100'
4" DOUBLE YELLOW PAINT 205'
24" SOLID YELLOW 37'



NOTE:

- 1.) LOCATIONS OF 'NO PASSING ZONES' ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD
- 2.) ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

C.S.A.H. 116 AT ANOKA HIGH SCHOOL ENTRANCE

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.
PRINT NAME: LYNDON ROBERT
SIGNATURE: *Lyndon Robert*
DATE: 07/02/02 REG. NO. 25066

DRAWN BY: DM DATE 06/27/02
DESIGN BY: DATE
CHECKED BY: DATE



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
STATE AID PROJECT NO. _____
COUNTY PROJECT NO. 02-01-00
COUNTY PROJECT NO. 02-28-116

PERMANENT
SIGN / STRIPING
Sheet 4 of 4 Sheets