

MINNESOTA DEPARTMENT OF TRANSPORTATION

ANOKA COUNTY

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

LOCATED ON C.S.A.H. 35 BETWEEN 40.168m W. OF ARTHUR ST. AND 81.154m W. OF PLEASANTVIEW DR. N. (Geographic Description)

STATE PROJ. NO. 02-635-09

C.S.A.H. 35

GROSS LENGTH	742.996	METERS	0.743	KILOMETERS
BRIDGES-LENGTH	0.000	METERS	0.000	KILOMETERS
EXCEPTIONS-LENGTH	7.679	METERS	0.007	KILOMETERS
NET LENGTH	735.319	METERS	0.735	KILOMETERS

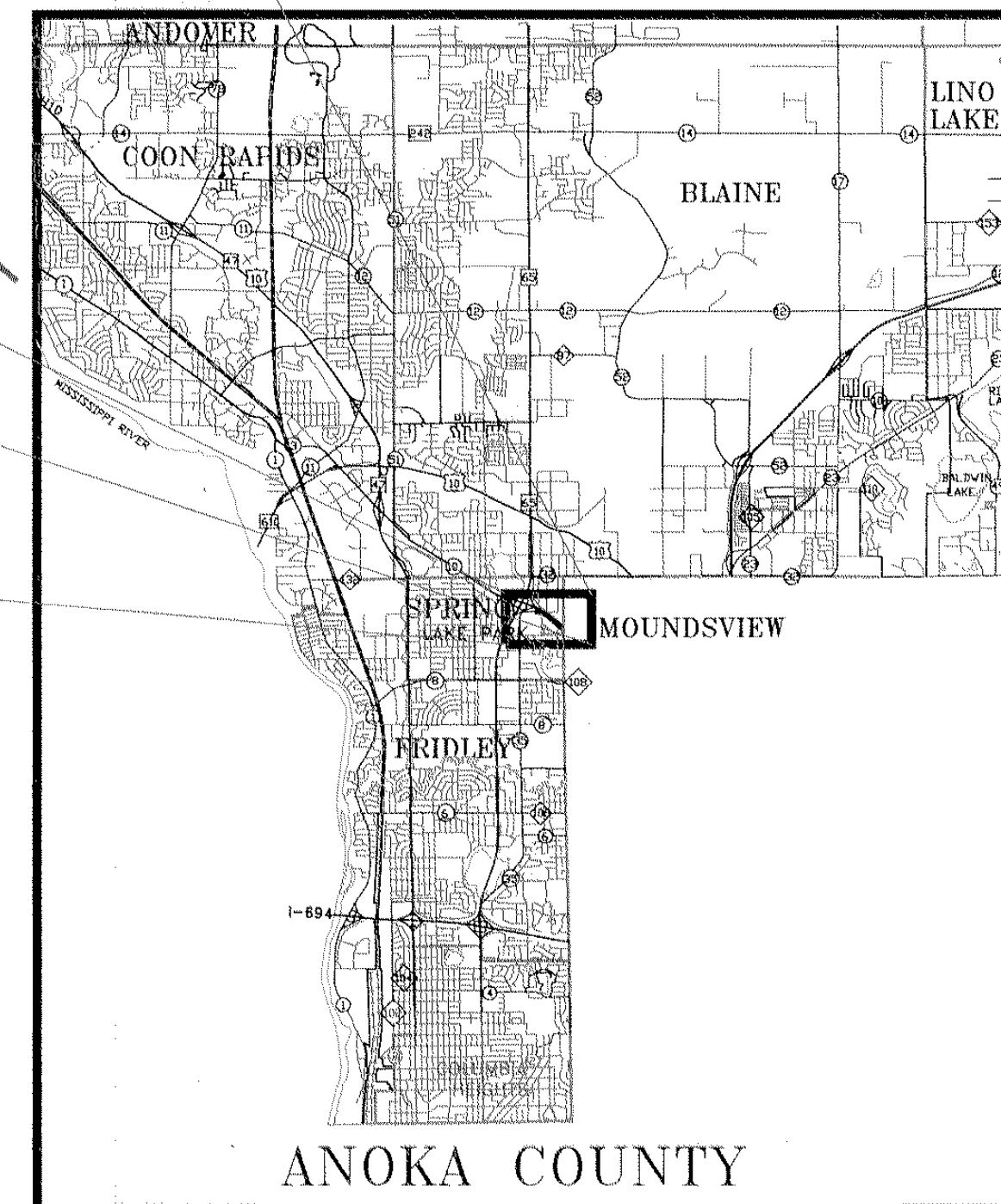
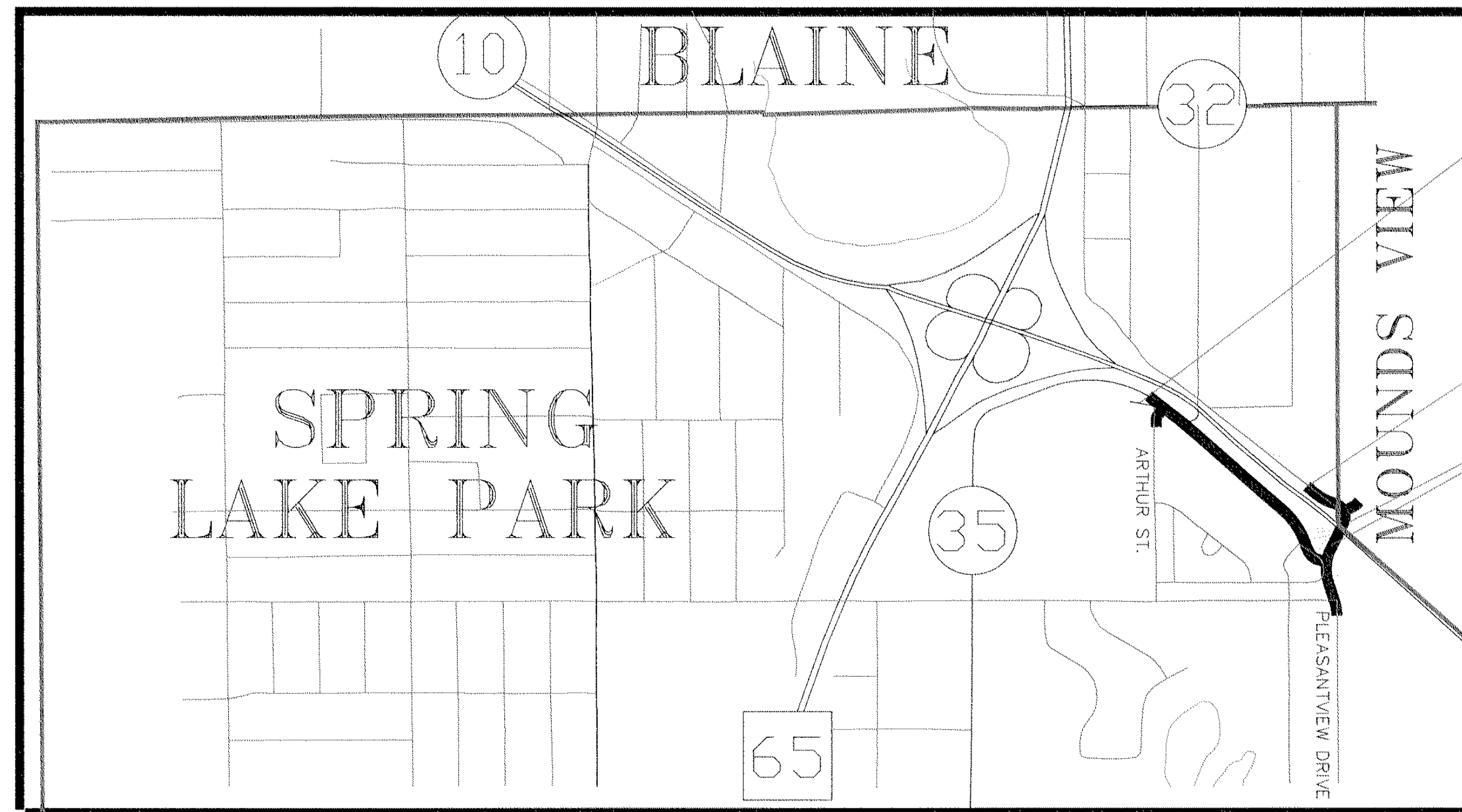
BEGIN PROJECT S.P. 02-635-09
 S.P. 183-101-08
 S.P. 146-080-01

STA. 5+468.939

END PROJECT S.P. 02-635-09
 S.P. 183-101-08
 S.P. 146-080-01

STA. 6+211.935

EXCEPTION S.P. 02-635-09 STA.
 6+067.828 TO STA. 6+075.506



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

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1	TITLE SHEET
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THIS PLAN CONTAINS 64 SHEETS

DESIGN DESIGNATION

ESAL ₂₀	425,985
R VALUE	70
ADT (2001)	1600
Proj. ADT (2021)	2560
Proj. HCADT (2021)	179
Soil Factor	NA
9.1 METRIC FON DESIGN	
Shoulder Width	2.4m

Functional Classification COLLECTOR
 No. of Traffic Lanes 2 No. of Parking Lanes 1
 Design Speed 60 Km/h
 Based on Stopping Sight Distance
 Height of eye 1.070mm Height of object 150mm
 Design Speed not achieved at:
 STA. 5+980.178 TO STA. 6+211.935 KM/h STOP CONDITION
 STA. TO STA. KM/h
 STA. TO STA. KM/h

Approved _____,19 ANOKA COUNTY ENGINEER

Approved _____,19 RAMSEY COUNTY ENGINEER

Approved _____,20 CITY OF SPRING LAKE PARK ENGINEER

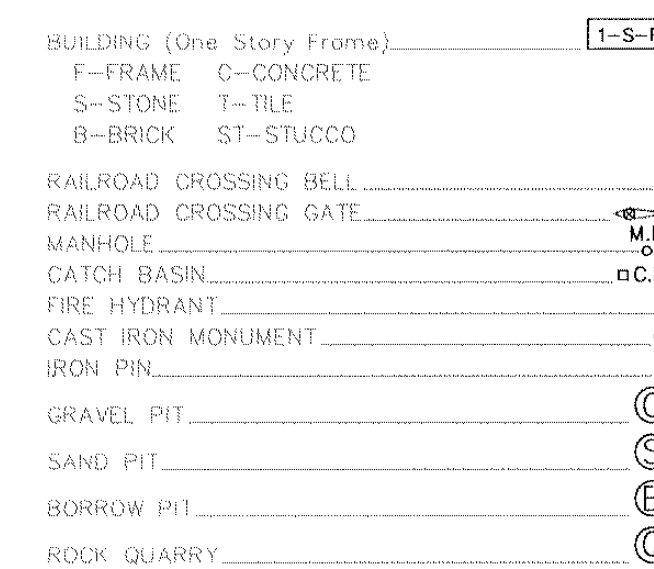
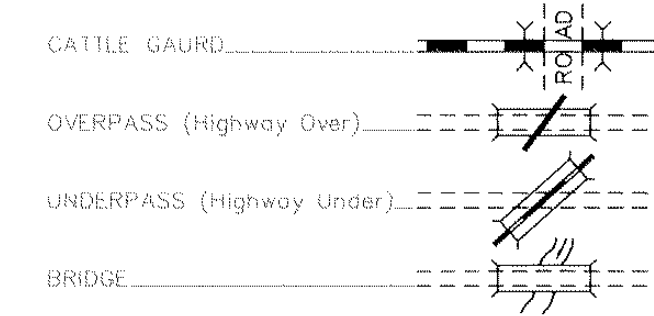
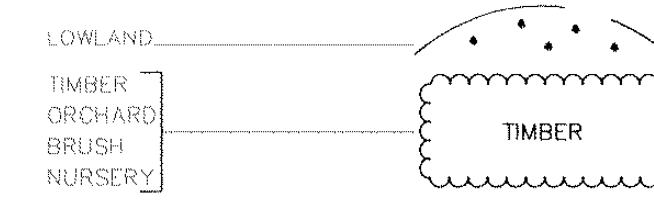
Approved _____,20 CITY OF MOUNDS VIEW ENGINEER

Recommended for Approval METRO-ASSISTANT DIVISION ENGINEER-STATE AID _____,20
 REVIEWED FOR COMPLIANCE WITH STATE AID RULES/POLICY.

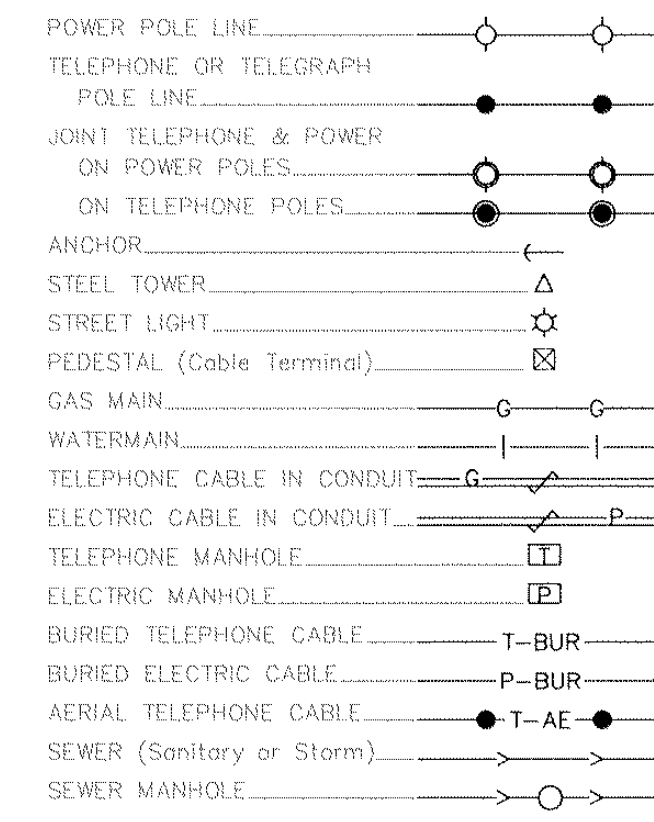
Approved for State Aid Division _____,20
 APPROVED FOR STATE AID FUNDING: STATE AID ENGINEER

PLAN SYMBOLS

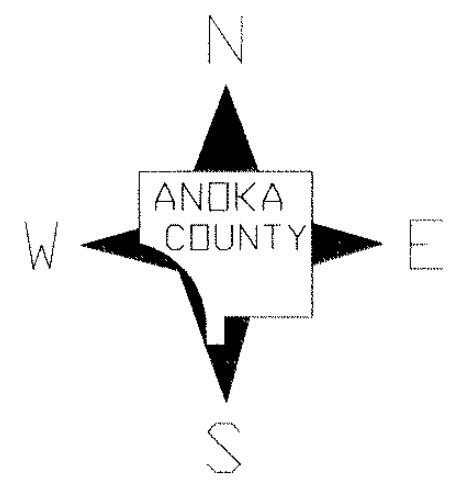
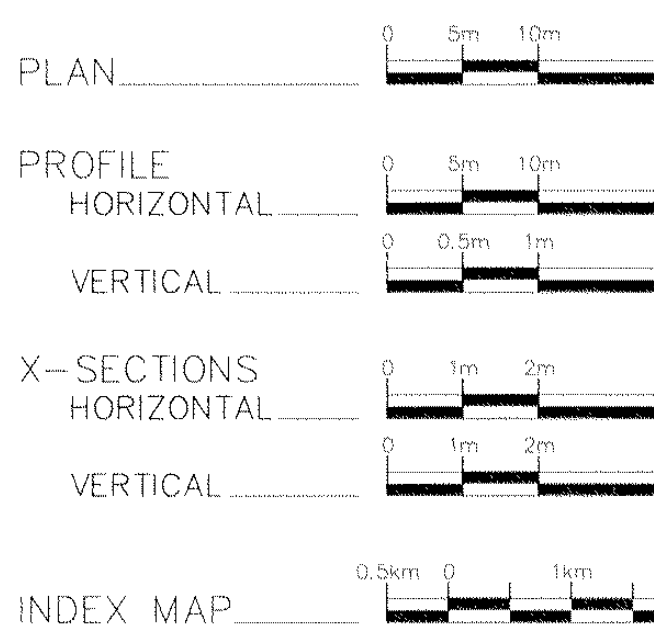
- COUNTY LINE
- TOWNSHIP OR RANGE LINE
- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- RIGHT OF WAY LINE
- SLOPE EASEMENT
- PRESENT RIGHT OF WAY
- PROPERTY LINE
- CORPORATE OR CITY LIMITS
- RETAINING WALL
- RAILROAD
- RAILROAD RIGHT OF WAY
- RIVER OR CREEK
- DRAINAGE DITCH
- CULVERT
- DROP INLET
- GAURD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



UTILITY SYMBOLS

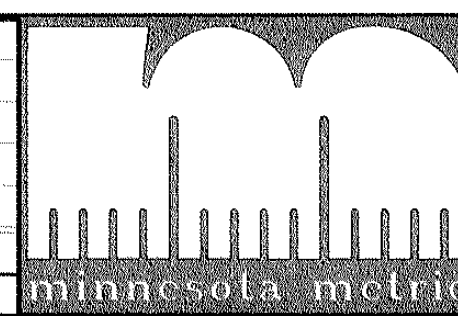


SCALES



NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\0263509\PLAN\01-TITLE.dwg 04/26/2002 03:09:33 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: _____
 SIGNATURE: _____
 DATE: _____ LICENSE NO. _____

DRAWN BY: KGJ DATE 08/24/01
 DESIGN BY: KGJ DATE 00/00/01
 CHECKED BY: LAR DATE 00/00/01



ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09
 STATE PROJECT NO. 183-101-08
 STATE PROJECT NO. 146-080-01
 COUNTY PROJECT NO.

TITLE SHEET
 Sheet 1 of 64 Sheets


STATEMENT OF ESTIMATED QUANTITIES										ANOKA COUNTY (S.P. 02-635-09) CITY OF SP. LK. PK. STORM SEWER		
CHAR T NO.	ITEM NO.	ITEM	UNIT	EST. QUAN. TOTAL	ANOKA COUNTY S.P. 02-635-09		SPRING LAKE PARK S.P. 183-101-08		MOUNDSVIEW S.P. 146-080-01		EST.	FINAL
					EST.	FINAL	EST.	FINAL	EST.	FINAL		
	2013.601	CELLULAR MOBILE TELEPHONE	LS	1	1							
	2015.601	COMPUTER EQUIPMENT	LS	1	1							
	2021.501	MOBILIZATION	LS	1	1							
	2031.501	FIELD OFFICE TYPE D	LS	1	1							
A	2101.502	CLEARING	EACH	66	66							
A	2101.507	GRUBBING	EACH	53	53							
	2102.501	PAVEMENT MARKING REMOVAL	M	500.1	500.1							
	2104.501	REMOVE PVC PIPE SEWER	M	15	15							
P	2104.501	REMOVE WATER MAIN	M	240		240						
J	2104.501	REMOVE CULVERT	M	45	45							
Q	2104.501	REMOVE WOOD RETAINING WALL	M	23.4	23.4							
D	2104.501	REMOVE CURB AND GUTTER	M	572	572							
B G	2104.503	REMOVE BITUMINOUS PAVEMENT	M2	9984.5	9984.5							
G	2104.503	REMOVE CONCRETE DRIVEWAY APRON	M ²	72.5	72.5							
J	2104.509	REMOVE CONCRETE APRON	EACH	2	2							
	2104.509	REMOVE BITUMINOUS FLUME	EACH	1	1							
O	2104.509	REMOVE SANITARY MANHOLE	EACH	3	3							
E	2104.501	REMOVE BITUMINOUS CURB	M	112	112							
F G	2104.513	SAWING BITUMINOUS PAVEMENT	M	1228	1228							
	2104.523	SALVAGE SIGN TYPE C	EACH	47	47							
	2104.523	SALVAGE SIGN TYPE SPECIAL	EACH	5	5							
C	2104.601	SALVAGE MISCELLANEOUS STRUCTURE	EACH	4	4							
	2105.501	COMMON EXCAVATION (EV) (P)	M ³	16748	16748							
	2105.525	TOPSOIL BORROW (LV)	M ³	571	571							
	2123.503	MOTOR GRADER	HR	20	20							
	2130.501	WATER	M ³	100	100							
W	2211.503	AGGREGATE BASE (CV) CL 5 (P)	M ³	1959.3	1959.3							
	2221.501	AGGREGATE SHOULDERING CLASS II	t	93.4	93.4							
	2232.501	MILL BITUMINOUS SURFACE	M ²	592.9	592.9							
	2331.603	SAW/SEALED JOINT	M	809	809							
W	2350.501	TYPE MV 4 WEARING COURSE MIXTURE (C)	t	1042.5	1042.5							
W	2350.502	TYPE MV 3 NON WEAR COURSE MIXTURE (C)	t	1042.5	1042.5							
G	2350.503	TYPE LV 4 WEAR CRS MIX (C) 50 MM THICK	M2	1154.502	1154.502							
W	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	LITER	2550.8	2550.8							
Q	2411.604	MODULAR BLOCK RETAINING WALL	M ²	4.5	4.5							
J	2501.511	300 MM RC PIPE CULVERT	M	30.5	30.5							
J	2501.515	300 MM RC PIPE APRON	EACH	2	2						3	
H	2501.515	375 MM RC PIPE APRON	EACH	3	3						3	
H	2501.515	600 MM RC PIPE APRON	EACH	3	3							
O	2503.511	200 MM PVC PIPE SEWER	M	69	69						45.9	
H	2503.541	300 MM RC PIPE SEWER DESIGN 3006, CLASS V	M	45.9							240.3	
H	2503.541	375 MM RC PIPE SEWER DESIGN 3006, CLASS V	M	240.3							174.1	
H	2503.541	525 MM RC PIPE SEWER DESIGN 3006, CLASS III	M	174.1							140.6	
H	2503.541	600 MM RC PIPE SEWER DESIGN 3006, CLASS III	M	140.6								
	2503.602	DISCONNECT SANITARY SEWER SERVICE	EA	13	13							
O	2503.602	RECONNECT SANITARY SEWER SERVICE	EA	1	1						1	
H	2503.602	CONNECT TO EXISTING STORM SEWER	EA	1	1						1	
J	2503.602	CONSTRUCT BULKHEAD	EA	1	1						1	

INDEX OF TABULATION CHARTS		
CHART	SHEET #	DESCRIPTION
A	4	CLEAR & GRUB
B	4	REMOVE BITUMINOUS PAVEMENT
C	4	COMMERCIAL SIGN CONSTRUCTION
D	4	REMOVE CURB AND GUTTER
E	5	REMOVE BITUMINOUS CURB
F	5	SAWING BITUMINOUS PAVEMENT
G	5	DRIVEWAY REMOVAL AND CONSTRUCTION
H	6	DRAINAGE TABULATION
I	6	CASTING ASSEMBLY SUMMARY
O	6	CULVERT TABULATION
K	7	ADJUST VALVE BOX - WATER
L	7	RELOCATE HYDRANT AND VALVE
M	7	CONSTRUCT CONCRETE CURB AND GUTTER
N	8	CONCRETE MEDIAN
O	8	SANITARY SEWER MODIFICATIONS
P	8	0
Q	8	RETAINING WALL CONSTRUCTION
R	8	MAILBOX SALVAGE AND INSTALL
S	9	PUBLIC UTILITY OWNED BY AT&T
T	9	PUBLIC UTILITY OWNED BY QWEST
U	9	PUBLIC UTILITY OWNED BY EXCEL
V	9	WATER STOP BOXES
W	10	BASE AND BITUMINOUS QUANTITIES CHART
X	10	EARTHWORK SUMMARY
Y	10	EARTHWORK BALANCE
Z	9	PUBLIC UTILITY OWNED BY RELIANT ENERGY

BASIS OF PLANNED QUANTITIES

- 2331 SAWED SEALED JOINT QUANT. BASED ON AVERAGE FULL WIDTH EVERY 10 m INCLUDING MEDIAN TURN LANES PLUS 10%.
- 2350 TYPE MV 4 PLANT MIXED WEARING COURSE BITUMINOUS MIXTURE 2.35 kg/m 2/mm THICKNESS
- 2350 TYPE MV 3 PLANT MIXED NON WEARING COURSE BITUMINOUS MIXTURE 2.35 kg/m 2/mm THICKNESS
- 2357 BITUMINOUS MATERIAL FOR TACK, 0.23 L/m PER LIFT APPLIED
- 2575 MULCH MATERIAL TYPE 1, 4.5 t/ha
- 2575 COMMERCIAL FERTILIZER, ANALYSIS 10-10-10 (OR EQUIVALENT)
- 2575 ROADSIDE SEEDING BASED ON HORIZONTAL MEASUREMENT +10% SEED MIXTURE NO. 60B, 112 kg/ha 560 kg/ha ON ALL SEED AREAS

NOTE: STORM SPLIT - 85% COUNTY, 15% SPRING LAKE PARK

1	3/8/02	KLO	RB	ADDED ITEMS IN ITALICS	 <p>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.</p> <p>PRINT NAME: LYNDON ROBJEN SIGNATURE: <i>[Signature]</i> DATE: 3-8-02 LICENSE NO. 25066</p>	DRAWN BY: KGJ DATE 00-00-01	 <p>ANOKA COUNTY HIGHWAY DEPT.</p>	STATE PROJECT NO. 02-635-09	STATEMENT OF ESTIMATED QUANTITIES
				DESIGN BY: KGJ DATE 00-00-01		STATE PROJECT NO. 183-101-08			
				REVISION	CHECKED BY: LAR DATE 00-00-01	STATE PROJECT NO. 146-080-01	COUNTY PROJECT NO.	Sheet 2 of 64 Sheets	

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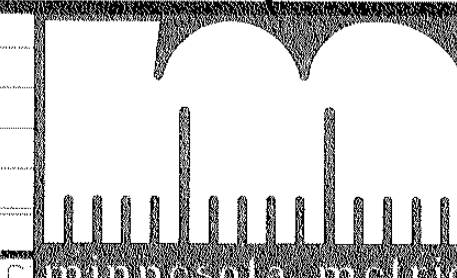


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					EST.	FINAL	EST.	FINAL	EST.	FINAL		
	2503.603	FILL AND ABANDON 200 MM PVC PIPE SEWER	M	80	80							
K	2504.602	ADJUST VALVE BOX - WATER	EACH	8			6		2			
L	2504.602	RELOCATE HYDRANT AND VALVE	EACH	6			5		1			
P	2504.602	150 MM GATE VALVE AND BOX	EACH	5			5					
P	2504.602	CONNECT TO EXISTING WATERMAIN	EACH	4			4					
	2504.602	ABANDON WATER SERVICES	EACH	13			13					
	2504.602	RELOCATE METER PIT	EACH	1			1					
P L	2504.603	150 MM WATERMAIN DUCTILE IRON CL 52	M	329.8			329.8					
P	2504.603	WATERMAIN INSULATION	M ²	10.0			10					
	2504.608	DUCTILE IRON FITTINGS	kg	935			935					
H	2506.501	CONST DRAINAGE STRUCTURE DESIGN F	M	18.66						18.66		
H	2506.501	CONST DRAINAGE STRUCTURE DESIGN G	M	8.53						8.53		
H	2506.501	CONST DRAINAGE STRUCTURE DESIGN H	M	5.05						5.05		
	2506.503	RECONSTRUCT DRAINAGE STRUCTURE	M	0.7	0.7							
I	2506.516	CASTING ASSEMBLY	EA	20						20		
O	2506.522	ADJUST FRAME AND RING CASTING	EA	3			3					
O	2506.602	CONSTRUCT SANITARY MANHOLE	EA	3	3							
O	2506.603	RECONSTRUCT SANITARY MANHOLE	M	1.5			1.5					
	2511.501	RANDOM RIPRAP, CL III	M ³	9.9	9.9							
	2511.501	RANDOM RIPRAP, CL IV	M ³	4.2	4.2							
N	2521.501	100 MM CONCRETE WALK	M2	44.4	44.4							
N	2521.501	200 MM CONCRETE WALK	M2	12.42	12.42							
M	2531.501	CONCRETE CURB AND GUTTER B418	M	149.9	65.6		52.6		31.7			
M	2531.501	CONCRETE CURB AND GUTTER B618	M	1867.8	889.5		875		103.3			
G	2531.507	150 MM CONCRETE DRIVEWAY PAVEMENT	M2	15.5	15.5							
G	2531.507	200 MM CONCRETE DRIVEWAY PAVEMENT	M ²	272.4	27.90		230.6		13.9			
	2531.602	PEDESTRIAN CURB RAMP	EACH	5	5							
N	2531.602	CONCRETE MEDIAN NOSE DESIGN 7113	EACH	6	6							
R	2540.602	INSTALL MAILBOX SUPPORT	EACH	3	3							
C	2540.602	RELOCATE MISCELLANEOUS STRUCTURES	EACH	3	3							
	2563.601	TRAFFIC CONTROL STAGE 1	LS	1	1							
	2563.601	TRAFFIC CONTROL STAGE 2	LS	1	1							
	2563.601	TRAFFIC CONTROL STAGE 3	LS	1	1							
	2563.601	TRAFFIC CONTROL STAGE 4	LS	1	1							
	2563.601	DETOUR SIGNING	LS	1	1							
	2564.533	SIGN PANELS TYPE C	M ²	46.5	46.5							
	2564.537	INSTALL SIGN TYPE SPECIAL	EACH	5	5							
	2564.602	PAVEMENT MESSAGE (ONLY) POLY PREF	EACH	3	3							
	2564.602	PAVEMENT MESSAGE (LT ARROW) POLY PREF	EACH	2	2							
	2564.602	PAVEMENT MESSAGE (RT ARROW) POLY PREF	EACH	1	1							
	2564.602	PAVT MESSAGE (RT-THRU ARROW) POLY PREF	EACH	1	1							
	2564.603	100 MM SOLID LINE WHITE-PAINT	M	1865.2	1865.2							
	2564.603	100 MM BROKEN LINE WHITE-PAINT	M	61	61							
	2564.603	100 MM SOLID LINE YELLOW-PAINT	M	516.5	516.5							
	2564.603	100 MM DOUBLE SOLID LINE YELLOW-PAINT	M	243.2	243.2							
	2564.603	600 MM SOLID LINE YELLOW-PAINT	M	24.4	24.4							
	2564.603	600 MM SOLID LINE WHITE-POLY PREFORMED	M	56.5	56.5							
	2564.603	900 MM SOLID LINE WHITE-POLY PREFORMED	M	86.3	86.3							
	2565.511	FULL TACT CONTROL SIGNAL SYSTEM	SIGS	1	0.625		0.25		0.125			
	2565.601	EMERGENCY VEHICLE PRE-EMPTION SYSTEM	LS	1			0.625		0.375			
	2573.502	SILT FENCE, TYPE MACHINE SLICED	M	450	450							
	2573.508	BITUMINOUS LINED FLUME	M ²	5.6	5.6							
	2573.602	SILT FENCE BOX	EACH	7	7							
	2575.501	SEEDING	HA	1.93	1.93							
	2575.502	SEED MIXTURE 60B	KG	215	215							
	2575.505	SODDING TYPE SALT RESISTANT	M ²	5376	5376							
	2575.511	MULCH MATERIAL TYPE 1	TON	8.65	8.65							
	2575.523	EROSION CONTROL BLANKETS CATEGORY 3	M ²	421	421							
	2575.532	COMMERCIAL FERTILIZER ANALYSIS 10-10-10	KG	1081	1081							
	2575.602	TEMPORARY STANDPIPE	EACH	1	1							

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STANDARD PLATES	
THESE STANDARD PLATES AS APPROVED BY THE FHWA SHALL APPLY.	
PLATE NO.	DESCRIPTION
M3000 L	REINFORCED CONCRETE PIPE
M3006 G	GASKET JOINT FOR R.C. PIPE
M3100 G	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
M3128 H	SAFETY APRON
M3133 C	RIPRAP AT RCP OUTLETS
M3145 E	CONCRETE PIPE TIES
M4005 L	MANHOLE OR CATCH BASIN (DESIGN F)
M4006 L	MANHOLE OR CATCH BASIN (DESIGN G OR H)
M4010 H	CONCRETE SHORT CONE AND ADJUSTING RING
M4011 E	PRECAST CONC. BASE
M4026 A	CONCRETE ENCASED CONCRETE ADJUSTING RING
M4101 D	RING CASTING FOR MANHOLE
M4110 F	RING CASTING FOR MANHOLE
M4126 F	CATCH BASIN FRAME CASTING
M4149 C	GRATE CASTING FOR CATCH BASIN
M4161 F	CURB BOX CASTING FOR CATCH BASIN
M4180 J	MANHOLE OR CATCH BASIN STEP
M7035 K	CONCRETE WALK & CURB RETURNS AT ENTRANCES
M7036 E	PEDESTRIAN CURB RAMP
M7100 G	CONCRETE CURB AND GUTTER (DESIGN B)
M7102 I	CONCRETE CURB AND GUTTER (DESIGN D)
M7113 A	CONCRETE APPROACH NOSE DETAIL
M7111 J	INSTALLATION OF CATCH BASIN CASTINGS
M8000 I	STANDARD BARRICADES
M9102 D	TURF ESTABLISHMENT AREAS (AT PIPE CULVERT ENDS)

SEE TRAFFIC SIGNAL PLAN SHEETS FOR ADDITIONAL STANDARD PLATES

NOTE: STORM SPLIT - 85% COUNTY, 15% SPRING LAKE PARK

1	3/8/02	KLO	RB	ADDED ITEMS IN ITALICS		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 ROBERTSON SIGNATURE:  DATE: 3-8-02 LICENSE NO. 25066	DRAWN BY: KGJ DATE 00-00-01 DESIGN BY: KGJ DATE 00-00-01 CHECKED BY: LAR DATE 00-00-01		ANOKA COUNTY HIGHWAY DEPT.	STATE PROJECT NO. 02-635-09 STATE PROJECT NO. 183-101-08 STATE PROJECT NO. 146-080-01 COUNTY PROJECT NO.	STATEMENT OF ESTIMATED QUANTITIES Sheet 3 of 64 Sheets
NO	DATE	BY	CKD	APPR			REVISION		NAME: P:\0263509\PLAN\02-03-ESTQUAN.dwg 04/19/2002 01:56:42 PM C:\minnesota\mcltr		

CLEAR & GRUB (A)					
STATION	LOCATION	CLEARING		GRUBBING	
		EACH	m ²	EACH	m ²
C.S.A.H. 35 P-CL					
5+491.639	17.583 RT	1		1	
5+498.681	16.598 RT	1		1	
5+509.516	27.049 RT	1		1	
5+614.393	13.234 RT	2		1	
5+778.369	7.460 RT	1		1	
5+778.862	12.704 RT.	1		1	
5+802.865	13.809 RT.	1		1	
5+820.584	7.129 LT.			1	
5+901.831	16.708 RT.	1		1	
5+906.259	12.952 RT.	2		1	
5+923.817	19.949 LT.	1		1	
5+924.993	16.122 LT.	1		1	
5+926.384	14.856 LT.	1		1	
5+955.724	0.363 RT.	1		1	
5+956.491	31.134 LT.	1		1	
5+958.237	5.847 RT.	1		1	
5+964.485	17.629 LT.	1		1	
5+967.746	20.820 LT.	1		1	
5+968.311	21.005 RT.	1		1	
5+972.582	18.194 RT.	2		1	
5+996.058	13.810 RT	1		1	
6+007.510	41.583 RT	2		1	
6+036.397	10.238 RT	2		1	
6+040.530	9.663 LT.	1		1	
6+044.041	3.963 LT.	4		1	
6+044.302	5.217 LT.	2		1	
6+046.694	15.363 LT.	1		1	
6+049.320	20.099 LT.	1		1	
6+050.258	12.819 LT.	1		1	
6+052.304	16.232 LT.	1		1	
6+056.304	2.480 RT	2		1	
	SUB-TOTAL =	40		31	
PLEASANTVIEW DR. SO.					
0+043.156	3.585 LT.	1		1	
0+044.260	4.964 LT.	1		1	
0+045.817	3.183 LT.	1		1	
0+053.384	2.311 RT.	1		1	
0+057.258	3.596 RT.	1		1	
0+061.037	5.012 RT.	1		1	
0+065.275	5.750 RT.	1		1	
0+066.576	1.021 RT.	1		1	
0+073.020	8.896 RT.	1		1	
0+078.852	10.888 RT.	1		1	
0+081.227	11.700 RT.	1		1	
0+083.110	12.123 RT.	1		1	
0+085.235	12.526 RT.	1		1	
0+086.954	13.056 RT.	1		1	
0+092.136	4.555 LT.	3		1	
0+096.651	11.830 RT.	1		1	
0+100.867	6.391 LT.	1		1	
0+115.790	9.930 RT.	2		1	
0+118.627	10.600 RT.	2		1	

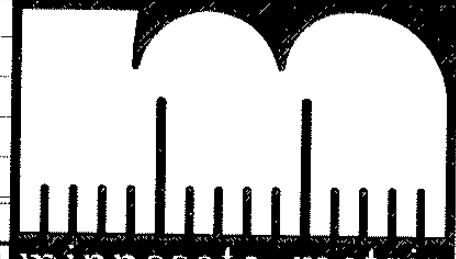

REMOVE BITUMINOUS CURB (E)			
STATION TO STATION	LOCATION	DESCRIPTION	M
6+098.539-6+122.550	15.776-14.234 RT CL		39.541
6+123.790-6+126.476	4.270 LT-6.965 RT		13.819
5+012.578-5+036.586	11.682-4.116 RT	PLEASANT V. ALIGN.	27.703
5+006.600-5+036.586	5.256-4.091 LT	PLEASANT V. ALIGN.	30.486
	TOTAL		111.549

COMMERCIAL SIGN CONSTRUCTION (C)					
STATION	LOCATION	DESCRIPTION	REMARKS	RELOCATE EACH	SALVAGE EACH
5+580.610	8.735 RT	REHBEIN AUTO SALES - PARCEL 7T		1	
5+662.029	18.656 RT	ELLER BILLBOARD - PARCEL 6T	NO CONST. REQ'D.		
5+639.890	10.848 RT	JERRY'S FLOOR STORE - PARCEL 6T			1
5+686.878	6.991 RT	PAM'S FURNITURE - PARCEL 5T			1
5+748.968	8.020 RT	HY-WAY HOUSE MOTEL SIGN			1
5+807.939	5.912 RT	CERAMIC TUNA - PARCEL 2			1
5+868.330	16.717 RT	KIRBY - PARCEL 2		1	
5+894.464	12.071 RT	SALON - PARCEL 2		1	
6+210.350	7.504 RT	NOAH'S ARK HOUSING - PARCEL 3	NO CONST. REQ'D.		
	TOTAL			3	4

*REMOVAL SHOULD BE COORDINATED WITH PROPERTY OWNER

REMOVE CURB AND GUTTER (D)				
STATION TO STATION	LOCATION	DESCRIPTION	M	M
			SP. LK. PK.	M.V.
5+481.320-5+500.963	11.763-11.109	LT CL	19.420	
0+017.519-0+003.710	4.322-14.035	LT CL	22.703	
0+017.543-0+034.552	4.356 RT-3.733 LT CL	ARTHUR ALIGN	17.123	
5+586.455-5+611.044	8.843-8.955	LT CL	24.589	
5+615.297-5+635.124	8.955-9.262	LT CL	19.827	
5+663.37-5+684.228	10.907-10.307	LT CL	20.891	
5+787.798-5+787.837	10.742-13.995	RT CL	3.576	
5+795.345-5+795.367	10.472-14.122	RT CL	3.620	
5+938.745-5+950.468	5.00 LT-16.744 RT	RT CL	24.785	
5+965.815-5+968.098	25.046-17.536	RT CL	10.020	
5+795.367-5+799.494	14.122-13.777	RT CL	4.132	
5+670.828-5+670.652	15.139-16.759	RT CL	1.505	
5+676.882-5+678.231	14.949-16.344	RT CL	2.379	
5+678.231-5+687.110	16.344-16.155	RT CL	8.881	
5+968.098-5+995.763	17.536-9.827	RT CL	34.584	
5+995.763-6+006.964	9.827-24.804	RT CL	22.409	
6+002.721-6+016.020	3.536-23.321	RT CL	24.584	
5+964.534-6+002.721	9.704-3.536	RT CL	46.511	
5+956.038-5+964.534	7.061-9.704	RT CL	10.439	
5+946.684-5+955.799	9.033 LT-7.248 RT CL		18.703	
6+023.798-6+040.077	28.027-25.251	RT CL		12.712
6+166.745-6+168.050	3.599-0.479	RT CL	4.184	
6+168.050-6+167.601	0.479-4.794	RT CL	4.338	
6+167.601-6+167.951	4.794-10.035	RT CL	5.245	
6+175.141-6+178.568	5.217-0.662	RT CL	6.811	
6+175.141-6+176.178	5.217-10.058	RT CL	6.857	
0+000.000-0+012.976	4.810-3.559	LT CL	12.484	
0+012.976-0+019.954	3.559-7.693	LT CL	8.370	
0+019.954-0+021.770	7+693-13.127	LT CL	4.975	
0+033.106-0+038.061	4.088-18.990	LT CL	15.641	
0+033.106-0+034.124	4.088-0.099 LT CL		3.981	
0+034.124-0+037.494	0.099 LT-2.418 RT CL			3.981
0+037.653-0+123.834	1.938-18.515	RT CL		80.250
0+000.000-0+028.738	4.398-9.117	RT CL		30.910
0+028.738-0+031.292	9.117-10.787	RT CL		3.266
0+031.292-0+032.173	10.787-12.873	RT CL		2.306
0+031.671-0+032.173	17.088-12.873	RT CL		4.254
0+048.799-0+051.760	18.295-16.957	RT CL		2.875
0+046.248-0+048.799	21.443-18.295	RT CL		4.238
0+075.696-0+080.298	24.933-27.269	RT CL		4.295
0+080.298-0+081.218	27.269-30.298	RT CL		3.100
0+091.893-0+095.218	33.479-30.359	RT CL		3.027
0+095.218-0+098.926	30.359-28.941	RT CL		2.978
	SUBTOTAL		413.567	158.192

TABULATION CHARTS
 CLEARING AND GRUBBING
 REMOVE BITUMINOUS CURB & GUTTER
 REMOVE MISCELLANEOUS STRUCTURE
 REMOVE CURB & GUTTER

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: LYNDI ROBERTSON SIGNATURE: <i>Lyndi Robertson</i> DATE: 03-12-02 LICENSE NO. 25066	DRAWN BY: KGJ DATE 04-05-01 DESIGN BY: KGJ DATE 04-05-01 CHECKED BY: LR DATE 04-05-01	 ANOKA COUNTY HIGHWAY DEPT.	STATE PROJECT NO. 02-635-09	TABULATION CHARTS
NAME: P:\0263509\PLAN\04-09-TabSheets.dwg 04/19/2002 03:48:21 PM										STATE PROJECT NO. 183-101-08	

SAWING BITUMINOUS PAVEMENT (F)			
STATION TO STATION	LOCATION	DESCRIPTION	M
0+000.000-0+000.000	4.812 LT-4.848 RT CL		9.21
0+022.615-0+029.739	16.272-14.554 LT CL	81st AVE. NE	6.276
0+029.739-0+032.234	14.554-20.944 LT CL	81st AVE. NE	6.713
0+032.234-0+038.061	20.944-18.990 LT CL	81st AVE. NE	6.11
0+103.536-0+103.459	20.138-10.683 LT CL	BALLANTYNE LN.	9.47
5+036.588-5+036.586	4.316 LT-4.091 RT CL	PLEASANT ALIGNMENT	8.207
5+405.420-5+620.337	31.578-20.673 LT CL	TH 10 MEDIAN	225.414
5+468.939-5+468.939	3.325 RT-3.984 LT CL		7.309
5+518.573-5+525.936	32.787 LT-27.391 RT CL	ARTHUR ALIGNMENT	8.678
5+575.312-5+578.195	45.540-51.564 LT CL		59.932
5+583.524-6+172.922	33.447-27.785 LT CL	TH 10 MEDIAN	352.989
5+586.455-5+620.764	8.843-8.685 LT CL	FRONTAGE RD. TO TH 10	34.694
5+615.799-5+617.919	48.962-51.477 LT CL		3.896
5+622.524-5+645.524	46.152-45.897 LT CL		24.762
5+626.917-5+660.147	16.218-15.505 RT CL		33.239
5+939.033-5+946.684	5.126-9.033 LT CL		8.875
5+950.922-5+959.072	16.858-12.248 R CL	McKINLEY ST.	8.794
5+958.967-5+965.420	12.659-25.569 RT CL	McKINLEY ST.	15.62
6+053.610-6+063.622	30.109-1.586 RT CL		30.229
6+068.056-6+078.898	23.030-22.739 RT CL		56.892
6+098.350-6+111.828	15.170-16.160 RT CL		33.757
6+211.935-6+211.932	3.748 LT-3.670 RT CL		7.255
TOTAL			958.321

REMOVE BITUMINOUS PAVEMENT (B)			
STATION TO STATION	LOCATION	DESCRIPTION	M ²
5+469.939-5+609.6010	LT. & RT.	MAINLINE	1077.744
5+492.660-5+525.668	2.954-32.839 RT.	ARTHUR ST.	364.694
5+458.545-5+631.090	20.322-28.368 LT.	E.B. #10 LT.TN.LN.	647.321
5+583.191-5+630.227	2.661-8.941 LT.	#10 & #35 INTERSECTION	192.637
5+583.524-6+205.128	21.922-33.447 LT.	W.B. #10 LT.TN.LN.	692.193
5+573.312-5+626.049	45.540-52.744 LT.	MED. #10 & N.SRVC.RD.	147.948
5+939.032-5+958.825	5.126 LT.-12.419 RT.	McKINLEY ST. N.E.	217.984
5+955.799-6+016.020	7.248-25.041 RT.	BALLANTYNE LANE	633.232
0+000.000-0+123.758	LT. & RT.	MAINLINE - PLSNTV.DR. SO.	1033.252
0+014.373-0+036.911	1.244-20.943 LT.	81 st. AVE.N.E.- PLSNTV.SO.	269.860
6+023.572-6+063.653	1.538-30.109 RT.	MAINLINE	365.962
6+075.506-6+092.207	24.330 RT.- 26.572 LT.	#10 CENTER MEDIAN X-ING	538.097
5+000.000-5+036.586	17.584 RT.- 4.091 LT.	MAINLINE PLSNTV. DR. NO.	821.131
5+405.419-56+878.822	31.572-4.885	TH 10 MEDIAN	327.295
TOTAL			7329.4

DRIVEWAY REMOVAL AND CONSTRUCTION											CONST. (G)				
STATION	LOCATION	ADDRESS	DESCRIPTION	SAWCUT		REMOVAL				REPLACEMENT			NEW		
				BIT	CONC.	LENGTH	WIDTH	BIT	APRON	LENGTH	WIDTH	BIT	CONC.	APRON	APRON
				m	m	m	m	m ²	m ²	m	m	m ²	150mm	200mm	200MM
C.S.A.H. 35															
5+560.787	7.733m RT.		REHBEIN'S AUTO SALE	9.848		16.047	4.832	36.320		0.719	10.161	7.287		16.000	
5+622.893	7.666m RT.		JERRY'S FLOOR STORE	47.552		16.047	4.832	419.359		8.390	11.060	87.396		28.143	
5+673.650	15.108m RT.		PAM'S FURNITURE	16.747		25.634	6.067	161.454		8.903	14.835	139.629		33.013	
5+717.542	LT. & RT.		HY-WAY HOUSE MOTEL	64.419		25.189	8.779	854.963		8.014	15.864	121.536		29.269	
5+773.708	LT. & RT.		HY-WAY HOUSE MOTEL	53.958		14.922	7.310	142.646		6.570	16.550	111.230		28.685	
5+791.545	LT. & RT.		CERAMIC TUNA	17.205		26.617	8.363	248.465		5.520	16.230	93.050		29.294	
5+833.602	LT. & RT.		PRO ENGINEERING	13.767		48.304	6.171	238.733		9.215	15.139	112.850		32.374	
5+942.654	3.641m RT.	#8190	SP.LK.PK.			3.732	3.000	11.500							
5+948.646	14.428m RT.	#8180	SP.LK.PK.			15.874	2.993	48.743							
5+950.284	3.535m RT.	#1696	SP.LK.PK.			4.069	3.000	39.034							
5+977.966	13.029m RT.	#8163	SP.LK.PK.			6.701	5.870	38.460							
5+989.642	9.880m RT.	#1689	SP.LK.PK.			5.081	3.113	14.798							
5+994.049	10.119m RT.	#1681	SP.LK.PK.			6.367	5.995	38.148							
6+005.304	4.915m RT.	#1680	SP.LK.PK.			0.916	3.299	3.091							
PLEASANTVIEW DR. S.															
0+015.672	11.114m RT.		SP.LK.PK	5.565		3.220	5.565	17.918	11.888	4.459	5.565	28.145	15.482		
0+038.217	14.368m LT.		SP.LK.PK						8.587						
0+039.288	18.177m RT.		SP.LK.PK	14.553		5.155	22.034	88.147		11.833	15.341	173.635		31.201	
0+081.480	18.259m LT.	#1664	SP.LK.PK			12.119	2.971	38.254							
0+086.266	32.686m RT.		SP.LK.PK	6.829					52.028	23.406	7.731	158.084	15.482		
0+089.110	12.600m LT.	#1668	SP.LK.PK			4.069	3.000	39.034							
0+103.227	10.372m LT.	#1672	SP.LK.PK			4.276	3.133	13.409							
0+112.368	12.458m LT.	#1676	SP.LK.PK			5.244	3.095	6.317							
PLEASANTVIEW DR. N.															
5+019.501	13.493m RT.		MOUNDSVIEW	11.749		4.387	11.734	45.075		7.715	10.414	81.160		13.912	
NORTH SERVICE DRIVE															
6+172.986	10.083m RT.			7.480		14.728	7.544	113.325		2.410	7.610	40.500		15.028	
UNADJUSTED TOTAL				269.672				2655.193	72.503			1154.502	15.482	15.482	256.919
TOTAL				269.7				2655.2	72.5			1154.5	15.5	15.5	256.9

TABULATION CHARTS
REMOVE BITUMINOUS PAVEMENT
SAWCUT PAVEMENT
DRIVEWAY REMOVAL AND CONSTRUCTION

DRAINAGE TABULATION													(H)						
STR. NO.	STATION	LOCATION	MH/CB	DESIGN	ASSEMBLY	PAY HEIGHT LIN. FT.	TOP OF CASTING ELEV.	INVERT ELEV.	DRAINS TO		% GRADE	300 mm	300 mm	375 mm	375 mm	525 mm	600 mm	600 mm	DRAINAGE NOTES
									EXIST	NEW		CLASS V	APRON	CLASS V	APRON	CLASS III	CLASS III	APRON	
1	5+460.000	7.893 LT CL	OUTLET	APRON				276.943											CL III
2	5+479.560	3.870 LT CL	CB	G	A	0.94	278.026	277.025		1	0.40			18.6					
3	5+544.760	3.870 LT CL	CB	G	A	1.19	278.544	277.286		2	0.40			65.2					
4	5+554.740	5.670 RT CL	CB	H	A	1.06	278.466	277.343		3	0.60	9.5							
5	5+612.070	3.870 LT CL	CB	G	A	1.36	278.532	277.109		7	0.50			69.0					
6	5+611.900	5.670 RT CL	CB	G	A	1.27	278.496	277.166		5	0.60	9.5							
7	5+681.000	3.870 LT CL	CB	G	A	1.32	278.148	276.764		9	0.45								
8	5+681.000	5.670 RT CL	CB	G	C	1.11	277.984	276.812		7	0.50			9.5		52.4			
9	5+733.380	3.870 LT CL	CB	F	A	1.77	278.363	276.528		11	0.45					121.7			
10	5+733.380	5.670 RT CL	CB	F	A	1.64	278.288	276.583		9	0.60	9.2							
11	5+855.150	6.925 LT CL	MH	F	B	1.48	277.461	275.980		12	0.60								
12	5+888.790	3.870 LT CL	CB	F	A	1.64	277.474	275.773		14	0.90						34.5		CONNECT TO EX. 600mm RCP CULV.
13	5+888.810	5.670 RT CL	CB	F	A	1.50	277.399	275.837		12	0.70	9.2					61.4		
14	5+946.683	18.505 LT CL	OUTLET	APRON				275.220											
15	6+051.425	21.604 LT CL	OUTLET	APRON				275.264										1	CL IV
16	6+051.425	11.370 LT CL	CB	F	A	2.74	278.174	275.373		15	1.00						9.0		CL III
17	6+051.425	5.430 LT CL	CB	F	A	2.79	278.288	275.432		16	1.00						5.9		
18	6+051.425	3.570 LT CL	CB	F	A	2.77	278.288	275.451		17	1.00						1.9		
19	6+051.425	14.103 RT CL	CB	F	A	2.34	278.031	275.627		18	1.00						17.6		
20	6+041.031	20.430 RT CL	INLET	APRON				275.750		19	1.00						10.4	1	
21	6+055.470	6.481 RT CL	CB	G	A	1.35	278.310	276.900		19	1.00	8.5							
22	6+133.530	13.974 RT CL	CB	H	A	0.84	278.300	277.400		23	0.40			18.8					
23	6+122.880	0.270 LT CL	CB	H	A	1.12	278.511	277.325		26	0.40			14.5					
24	6+146.030	16.20 LT CL	INLET	APRON				277.404		25	0.50			23.7	1				
25	6+111.380	1.860 LT CL	CB	H	A	1.01	278.353	277.276		26	0.50			1.9					
26	6+111.380	0.270 LT CL	CB	H	A	1.02	278.353	277.267		27	0.50			19.1	1				
27	6+104.017	20.967 RT CL	OUTLET	APRON				277.162											CL III
TOTALS =						32.25						45.90		240.30	3	174.10	140.65	3	

DES. H	5.05
DES. G	8.53
DES. F	18.66

CASTING ASSEMBLY SUMMARY						(I)
ASSEMBLY	RING OR FRAME CASTING	COVER OR GRATE CASTING	CURB BOX CASTING	QUANTITY	REMARKS	
A	801	810	821B	19		
B	700+8	716		4 *	MANHOLE	
C	801	810		1	NO CURB BOX CASTING	
TOTAL				20		

* 3 TO BE USED IN SANITARY MANHOLE CONSTRUCTION

CULVERT TABULATION										(J)
STATION	LOCATION	INPLACE	NEW CONST.			REMARKS	REMOVAL		NEW CONST.	
			INLET EL.	OUTLET EL.	% GRADE		PIPE CULVERT	APR.	300mmRCP	APR.
5+693.200	12.209-16.221 RT	300mm RCP				DISCONNECT FROM MH & BUILD BULKHEAD	m	APR.	m	EACH
5+841.02	9.427 LT	300mm CMP				ENTRY TO TH 10	4.4	1		
5+854.937	19.6 LT	600mm RCP				SEE STORM SEW.CHART FOR NEW CONST.	20.72			
6+110.36	12.902 LT	450mm CMP				CSAH 10 FRONTAGE & PLEASANTVIEW DR.	19.9	1		
6+041.680	36.507-54.882m RT.		277.139	277.063	0.250	POND OVERFLOW - CSAH 10 S.DITCH			30.5	2
TOTALS =							45.0	2	30.5	2

TABULATION CHARTS

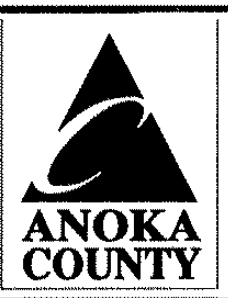
DRAINAGE TAB
CASTING ASSEMBLY
CULVERT TAB

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: LYNN ROBJEN
 SIGNATURE: *[Signature]*
 DATE: 03-12-02 LICENSE NO. 25066

DRAWN BY: MN DATE 04-08-99
 DESIGN BY: KGJ DATE 04-08-99
 CHECKED BY: LR DATE 04-08-99



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09
 STATE PROJECT NO. 183-101-08
 STATE PROJECT NO. 146-080-01
 COUNTY PROJECT NO.

TABULATION CHARTS
 Sheet 6 of 64 Sheets

CONCRETE MEDIAN						(N)
STATION TO STATION	LOCATION	DESC.	100mm	200mm	MEDIAN	
			M ²	M ²	NOSE EACH	
6+037.825-6+058.990	4.5m LT		17.156			
6+110.160-6+125.500	1.2m LT		11.674			
6+055.406-6+060.865	4.400-9.265m RT		15.601			
6+036.325	4.5m LT				1	
6+060.490	4.5m LT				1	
6+108.630	1.2m LT				1	
6+163.935	1.2m LT				1	
6+054.406	4.2m RT				1	
6+059.523	4.2m RT				1	
6+075.230-6+081.050	6.130-9.491m RT	WALK		12.422		
SUBTOTAL			44.431	12.422	6	
TOTAL			44.43	12.42	6	

RETAINING WALL CONSTRUCTION					(Q)
STATION TO STATION	LOCATION	NEW CONSTRUCTION			REMOVE
		LENGTH m	HEIGHT m	INSTALL m ²	LENGTH m
5+568.553 - 5+591.936	7.654-7.989m RT.				23.383
5+574.787 - 5+591.936	7.654-7.989m RT.	17.149	0.199-0.282	4.512	
TOTAL					23.4

SANITARY SEWER MODIFICATIONS												(O)
STATION	LOC.	INPLACE	INPLACE TOP CAST. ELEV.	PROP. TOP CAST. ELEV.	REMOVE EACH	ADJUST EACH	CONST. EACH	200 mm PVC SEWER M	CONNECTION	RE-CONST. m	REMARKS	
5+959.010	20.4m RT.	-					1	35			MH #S6 ON PLAN	
5+635.609	11.29m RT.	MH	278.036	278.323						0.500		
5+662.607	11.060m RT.	MH	277.535	278.008						0.500		
5+708.071	9.800m RT.	MH	277.622	278.213						0.500		
5+947.499	2.102m RT.	MH	278.136	277.964	1						MH # S1 ON PLAN	
5+957.948	18.705m RT.	MH	277.894	277.894	1						MH #S2 ON PLAN	
5+960.450	19.898m RT	-							1		200x100mm WYE, 6m 100mm PVC, 100 mm 45 DEG ANGLE MH #S7 ON PLAN	
5+986.550	13.983RT	-					1	34				
6+003.460	10.957RT	MH	278.341		1							
6+008.840	21.722RT	-					1				MH #S8 ON PLAN	
6+124.375	10.459m RT.	MH	278.450	278.411		1						
0+023.853	1.523m RT.	MH	278.227	278.209		1					PLEASANTVIEW DR. S. ALIGN.	
0+028.372	3.915m RT.	MH	278.266	278.219		1					PLEASANTVIEW DR. S. ALIGN.	
TOTALS =					3	3	3	69	1	1.5		

MAILBOX SALVAGE AND INSTALL					(R)
STATION	LOCATION	ADDRESS	DESCRIPTION	EACH	
0+020.000	8.6 RT	#8115 PL. VIEW DR., SLP	INSIDE BUCKET	1	
6+120.000	14.3 RT	#8225 PL. VIEW DR., MOUNDS VIEW		1	
6+120.000	14.3 RT	#8227 PL. VIEW DR., MOUNDS VIEW		1	
TOTAL					3

		WATERMAIN							(P)
STATION	LOCATION	F & I	D.I.P.	CONNECT	POLYSTYRENE	REMOVE	REMOVE	REMARKS	
		GV & BOX	(150 mm)	WATERMAIN	INSULATION	WATERMAIN	GV & BOX		
		EACH	M	EACH	M ²	M	EACH		
5+850.410	0.210 RT P-CL		69.07						
5+852.560	0.431 RT P-CL	1		1					
5+919.470	2.045 LT P-CL		51.93						
5+955.490	3.141 RT P-CL	1							
5+955.490	0.00 RT P-CL		9.08						
5+955.490	9.08 RT P-CL		11.07						
5+960.370	16.83 RT P-CL		31.88						
5+961.170	18.353 RT P-CL	1		1					
5+961.230	18.48 RT P-CL								
5+971.200	0.00 LT P-CL		25.01						
5+986.560	10.91 RT P-CL		29.09						
5+997.420	1.815 LT P-CL		24.26						
6+006.250	16.813 RT P-CL	1		1					
6+006.820	17.13 RT P-CL								
6+030.770	1.660 LT CL		30.58						
6+039.020	28.27 RT P-CL				10				
0+100.820	0.17 RT PLEASANT-P-CL-SO		30.92						
0+097.000	30.92 RT PLEASANT-P-CL-SO								
0+097.260	29.44 RT PLEASANT-P-CL-SO	1		1					
5+853.510	0.18 LT P-CL					3			
5+916.200 TO 6+039.560	VARIES LT P-CL					114.5	1		
5+940.850 TO 6+006.150	VARIES					104.1			
5+528.540 TO 5+541.170	VARIES RT P-CL					18.4			
TOTAL:		5	312.89	4	10	240	1		

TABULATION CHARTS

CONCRETE MEDIAN
SANITARY SEWER MODIFICATIONS
RETAINING WALL CONSTRUCTION
MAILBOX SALVAGE AND INSTALL
WATERMAIN

PUBLIC UTILITY OWNED BY EXCEL (U)				
STATION	LOCATION	DESCRIPTION/SIZE	ALIGNMENT	NO.
0+075.010	28.04 RT	POWER POLE	PLEASANT-P-CL-SO	1
5+465.960	9.040 LT	LIGHT POLE	P-CL	1
5+498.990	9.651 RT	LIGHT POLE	P-CL	1
5+539.730	6.844 LT	LIGHT POLE	P-CL	1
5+554.920	8.018 RT	LIGHT POLE	P-CL	1
5+612.680	2.907 LT	LIGHT POLE	P-CL	1
5+761.600	2.689 RT	POWER POLE	P-CL	1
5+934.910	24.045 RT	SPLICE BOX ELECTRIC	P-CL	1
5+961.100	9.004 RT	LIGHT POLE	P-CL	1
6+003.940	2.242 RT	LIGHT POLE	P-CL	1
6+638.330	5.579 LT	SPLICE BOX ELECTRIC	P-CL	1
6+638.720	6.081 LT	SPLICE BOX ELECTRIC	P-CL	1
6+160.870	3.224 LT	LIGHT POLE	P-CL	1
TOTAL				13

WATER STOP BOXES (V)			
STATION	LOCATION	DESCRIPTION/SIZE	NO.
5+776.333	21.286 RT		1
5+781.124	11.134 RT		1
0+116.392	40.333 RT		1
TOTAL			3

PUBLIC UTILITY OWNED BY QWEST (T)				
STATION	LOCATION	DESCRIPTION/SIZE	ALIGNMENT	NO.
5+530.430	24.114 RT	SPLICE BOX TELEPHONE	P-CL	1
5+599.000	4.205 RT	TELEPHONE MANHOLE	P-CL	1
5+703.643	6.559 RT	SPLICE BOX TELEPHONE	P-CL	1
5+792.320	10.430 LT	TELEPHONE MANHOLE	P-CL	1
5+957.668	16.009 LT	SPLICE BOX TELEPHONE	P-CL	1
5+930.121	26.460 RT	SPLICE BOX TELEPHONE	P-CL	1
5+931.625	25.210 RT	SPLICE BOX TELEPHONE	P-CL	1
6+039.590	30.290 RT	TELEPHONE MANHOLE	P-CL	1
6+051.070	30.647 RT	TELEPHONE MANHOLE	P-CL	1
6+055.260	17.017 LT	SPLICE BOX TELEPHONE	P-CL	1
6+126.570	1.955 RT	SPLICE BOX TELEPHONE	P-CL	1
5+035.520	5.955 RT	SPLICE BOX TELEPHONE	PLEASANT-P-CL-NO	1
0+048.480	37.000 LT	SPLICE BOX TELEPHONE	PLEASANT-P-CL-SO	1
0+091.460	11.236 RT	SPLICE BOX TELEPHONE	PLEASANT-P-CL-SO	1
0+097.150	14.277 RT	SPLICE BOX TELEPHONE	PLEASANT-P-CL-SO	1
TOTAL				15

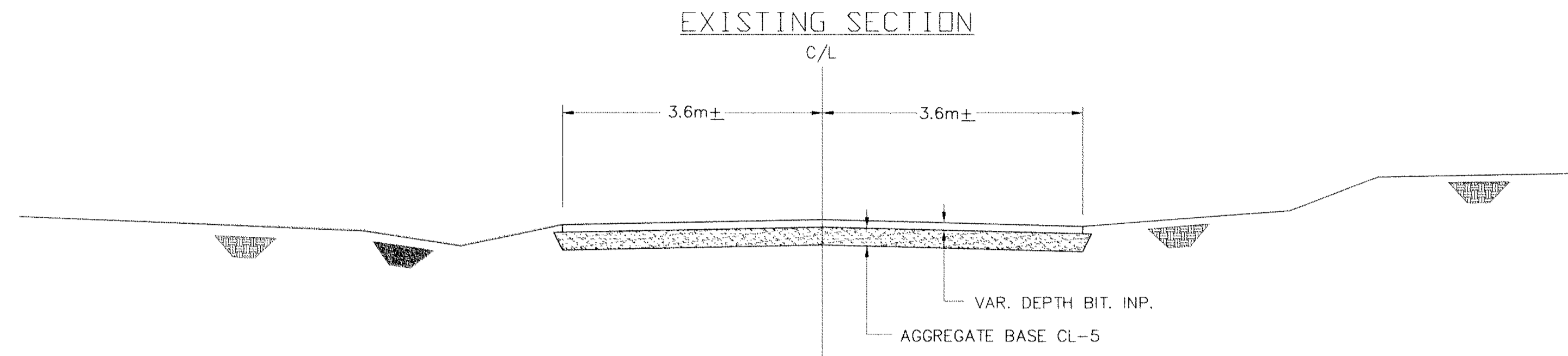
PUBLIC UTILITY

PUBLIC UTILITY OWNED BY RELIANT ENERGY (Z)					
STATION	LOCATION	TO STATION	LOCATION	REMARKS	SIZE AND ITEM
0+000.00	4.211 LTT	0+098.48	4.158 LT	ARTHUR ALIGN.	2"G
0+009.69	25.077 LT	0+040.65	45.237 RT	ARTHUR ALIGN.	2"G
5+564.454	7.764 RT	5+613.22	7.869 RT		2"G
5+613.22	7.869 RT	5+614.76	9.741 RT		2"G
5+614.76	9.741 RT	5+744.36	7.181 RT		4"G
5+660.78	86.977 LT	5+741.72	7.235 RT		4"G
5+744.36	7.181 RT	5+746.71	5.159 RT		2"G
5+746.71	5.159 RT	5+777.60	4.448 RT		2"G
5+777.60	4.448 RT	5+778.93	6.000 RT		2"G
5+778.93	6.000 RT	6+034.12	25.311 RT		2"G
0+000.00	0.750 LT	0+030.54	3.914 RT	PL. VIEW ALIGN.	2"G
0+032.03	3.416 LT	0+030.54	3.914 RT	PL. VIEW ALIGN.	2"G
0+030.54	3.914 RT	0+124.04	26.56 RT	PL. VIEW ALIGN.	2"G
0+040.84	29.596 LT	0+032.05	3.531 LT	PL. VIEW ALIGN.	2"G
0+091.94	11.448 LT	0+103.30	10.079 LT	PL. VIEW ALIGN.	2"G
5+955.87	26.495 RT	5+941.05	1.224 RT		2"G
5+949.92	17.202 RT	6+003.27	2.867 RT		2"G
6+003.27	2.867 RT	6+016.86	22.978 RT		2"G
5+969.31	33.654 RT	5+966.49	26.356 RT		2"G
5+966.49	26.356 RT	5+966.03	21.854 RT		2"G
5+966.03	21.854 RT	5+968.51	18.301 RT		2"G
5+968.51	18.301 RT	5+995.60	10.712 RT		2"G
5+995.60	10.712 RT	6+006.34	24.756 RT		2"G

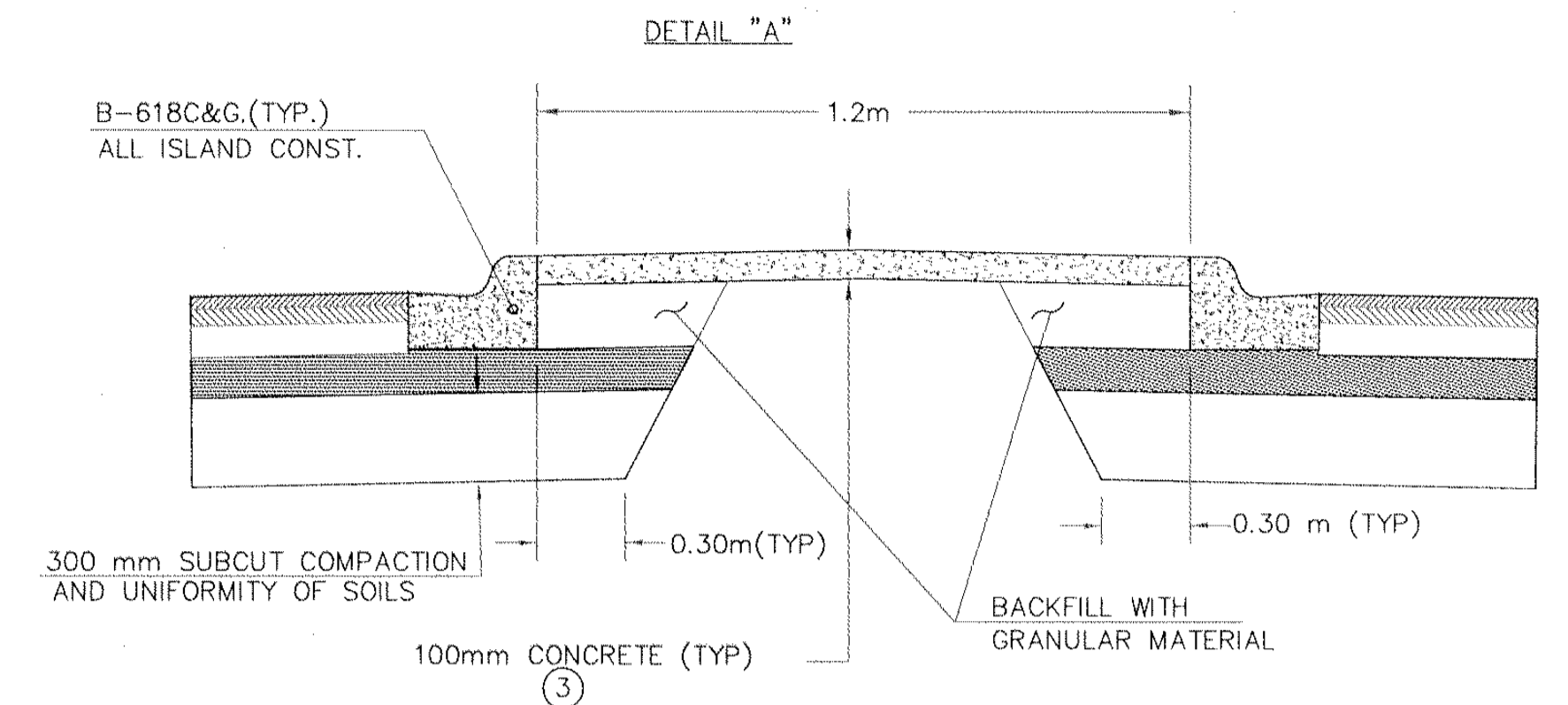
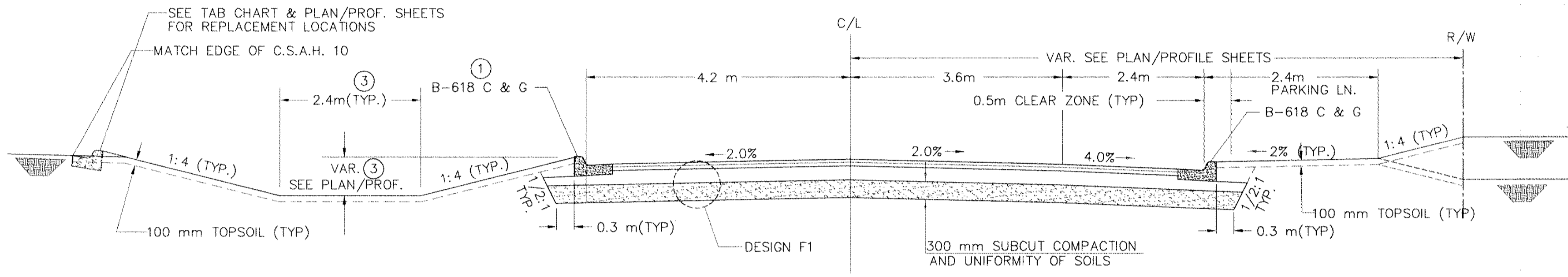
PUBLIC UTILITY OWNED BY AT&T (S)				
STATION	LOCATION	DESCRIPTION/SIZE	ALIGNMENT	NO.
6+055.260	17.017 LT	SPLICE BOX TELEVISION	P-CL	1
TOTAL				1

ANTICIPATED RELOCATION BY OTHERS.
 ALL DISTANCES ARE IN METERS.
 LOCATIONS OF UTILITIES ARE APPROXIMATE ONLY.
 ACTUAL LOCATIONS ARE TO BE DETERMINED IN THE
 FIELD DURING CONSTRUCTION.

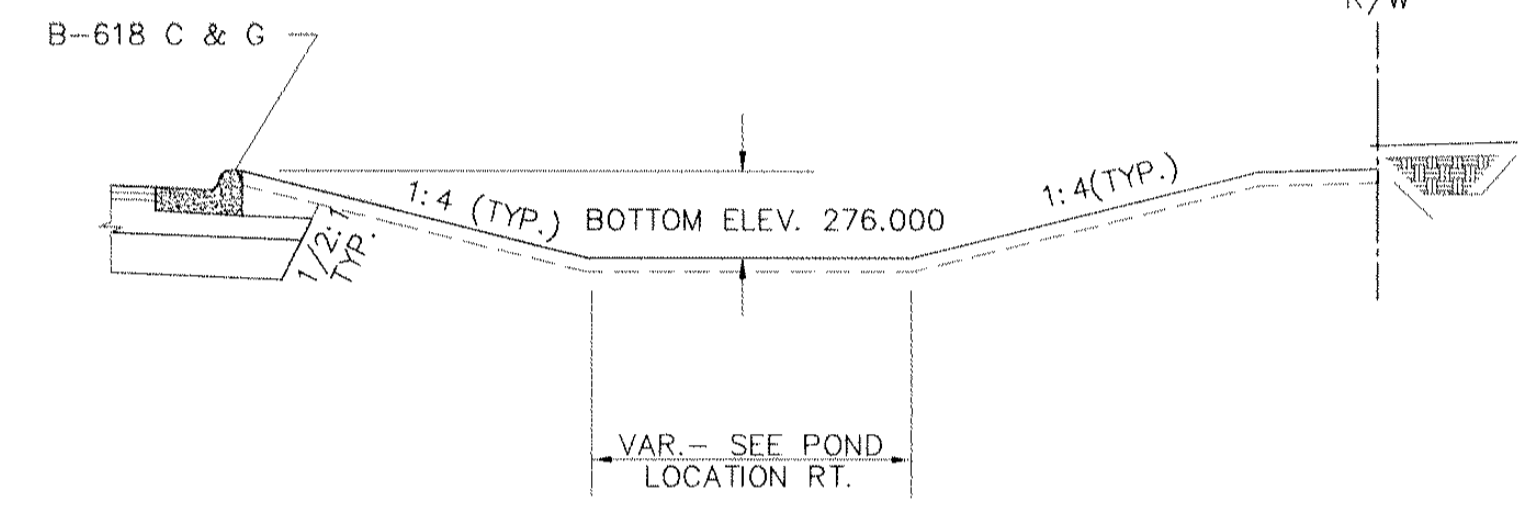
PUBLIC UTILITIES TABULATION
 PUBLIC UTILITY OWNED BY XCEL
 PUBLIC UTILITY OWNED BY QWEST
 PUBLIC UTILITY OWNED BY RELIANT ENERGY
 PUBLIC UTILITY OWNED BY AT&T
 WATER STOP BOXES



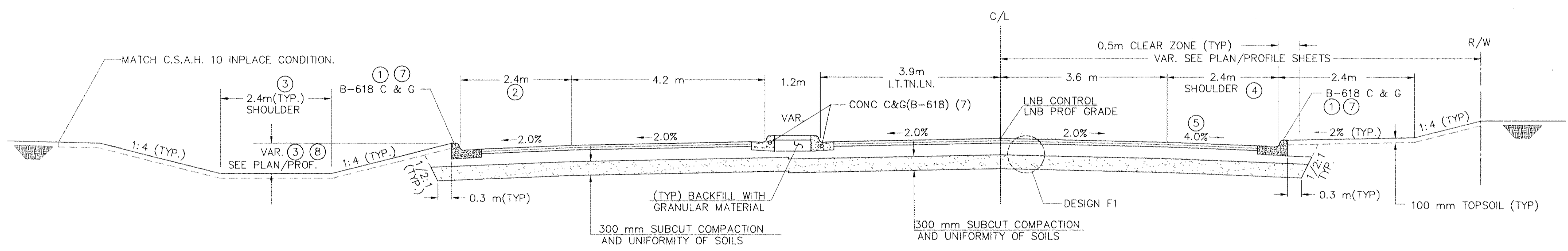
TYPICAL MAINLINE CONSTRUCTION



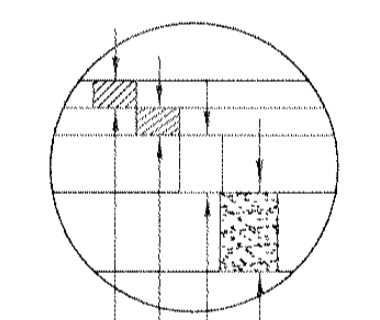
POND CONSTRUCTION RT.



TYPICAL LT. TURN BAY CONSTRUCTION

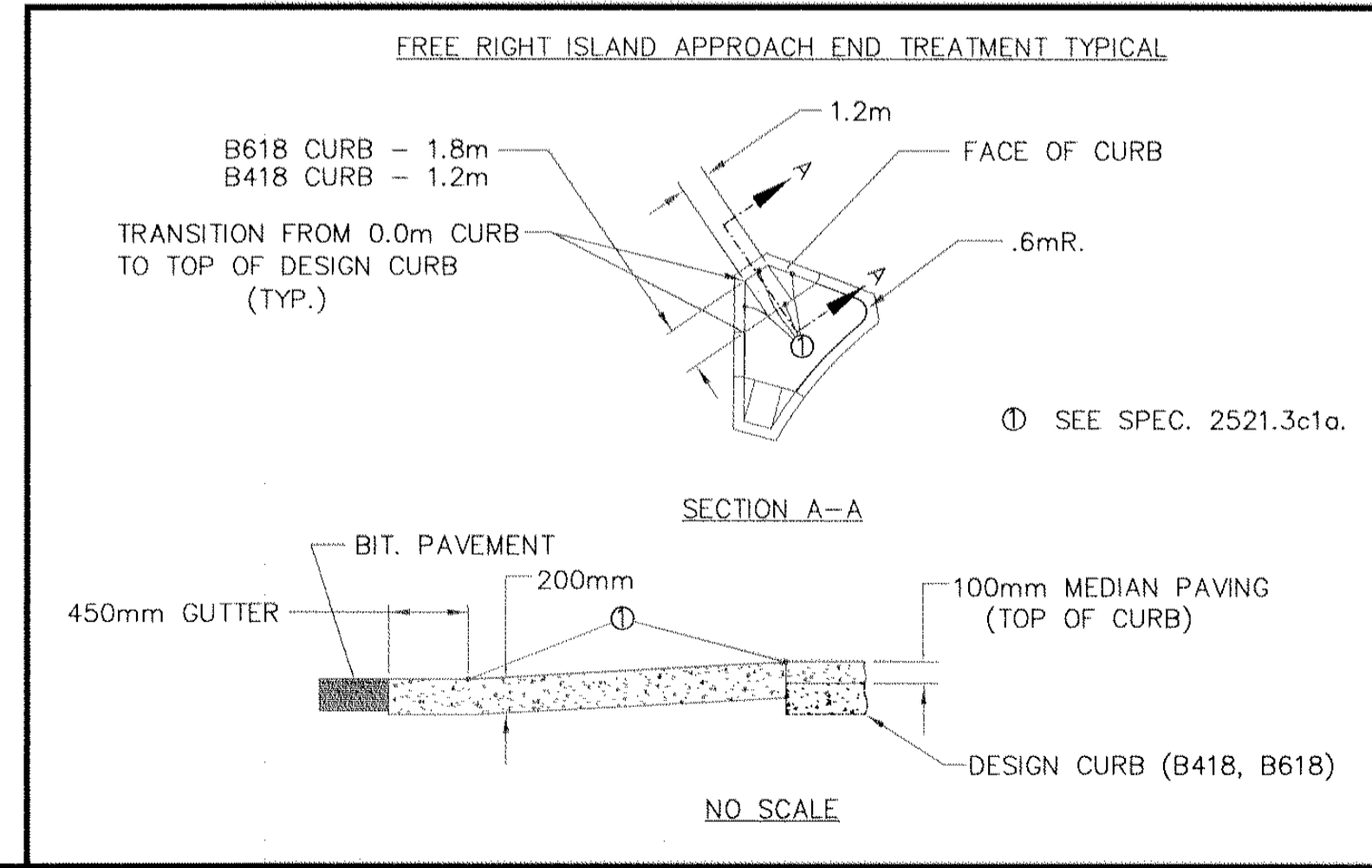
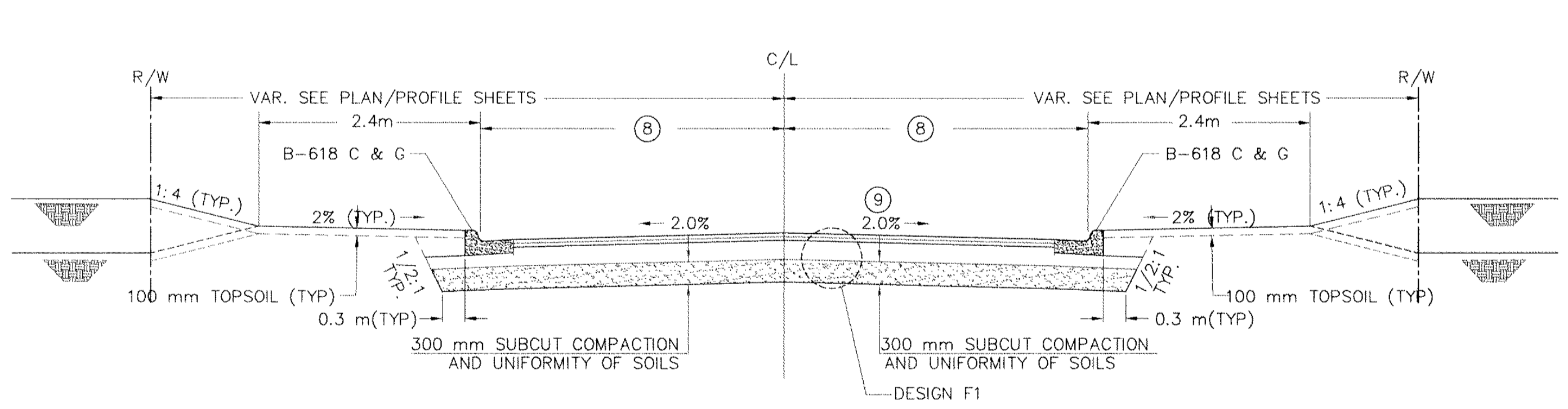


DESIGN F-1



40 mm TYPE MVWE45035
 40 mm TYPE MVNW35035 C
 150 mm AGGREGATE BASE CLASS 5
 300 mm SUBCUT

TYPICAL STREET APPROACH CONSTRUCTION



NOTES:

- ① SEE PLAN & PROFILE SHEETS FOR CURB LOCATIONS
- ② VARIES FROM 0m - 2.4m. (TYP.). SEE PLAN & PROFILE SHEETS FOR LOCATIONS THAT EXCEED THE TYPICAL.
- ③ SEE PLAN & PROFILE SHEETS AND X-SECTIONS FOR POND CONST. LT. (POND BOTTOM ELEV. 275.000)
- ④ 4.2m IN RT. TURN LANES
- ⑤ 2.5% SLOPE IN RIGHT TURN LANES
- ⑥ SLOPE VARIES:
 STA. 6+023.572 - 6+036.325 LT.
 SLOPE VARIES TO MATCH INPLACE C.S.A.H. 10:
 STA. 6051.789 - 6+133.409 LT.
 STA. 6051.789 - 6+106.427 RT.
- ⑦ USE B418 C & G. WHERE INDICATED ON THE PLAN & PROFILE SHEETS (#10 SAFETY CLEAR ZONE).
- ⑧ ARTHUR STREET 4.877 m
 PLEASANT VIEW DRIVE SOUTH 4.830 m
 PLEASANT VIEW DRIVE NORTH 4.316 m
- ⑨ PLEASANTVIEW DR. N.- 1.5% SLOPE RT.

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.

DATE _____ REG. NO. _____

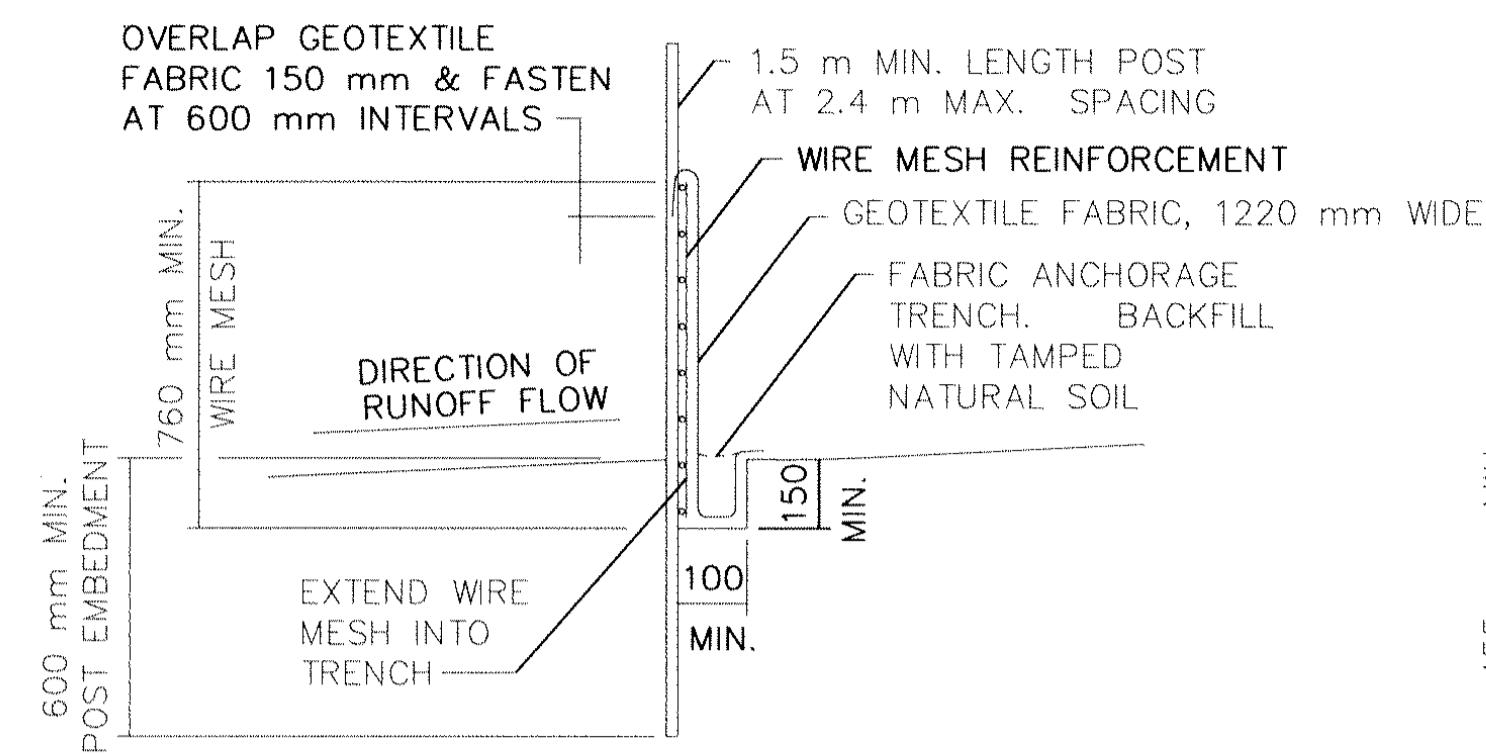
DRAWN BY: KJG DATE: 1/17/02
 DESIGN BY: KJG DATE: 1/17/02
 CHECKED BY: _____ DATE: _____



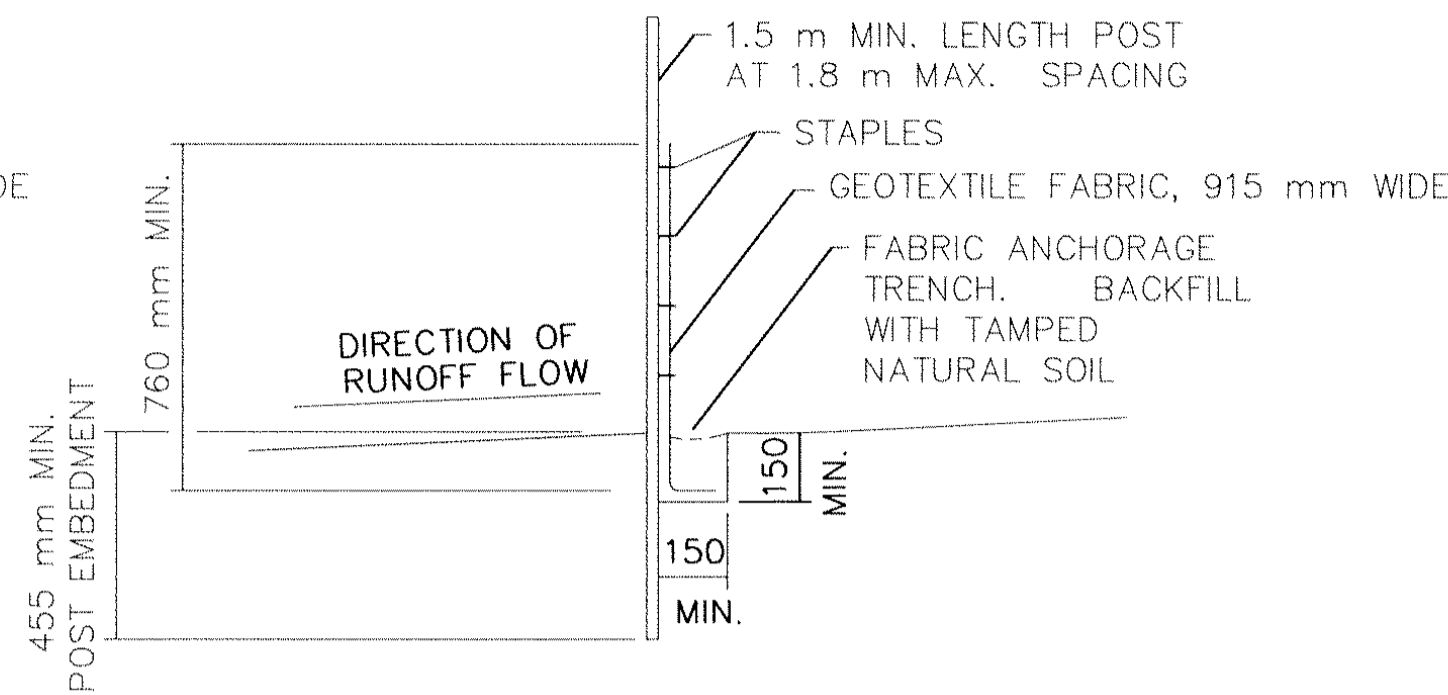
ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09
 STATE PROJECT NO. 183-101-08
 STATE PROJECT NO. 146-080-01
 COUNTY PROJECT NO. _____

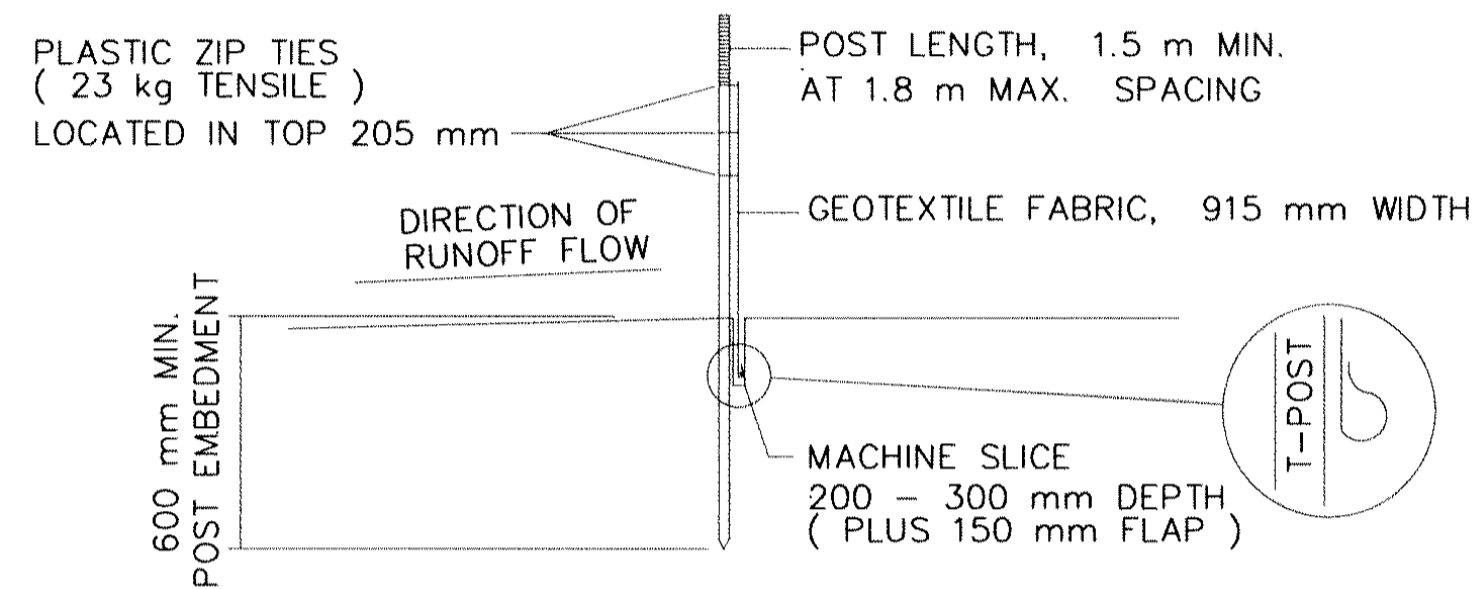
TYPICAL SECTIONS
 Sheet 11 of 64 Sheets



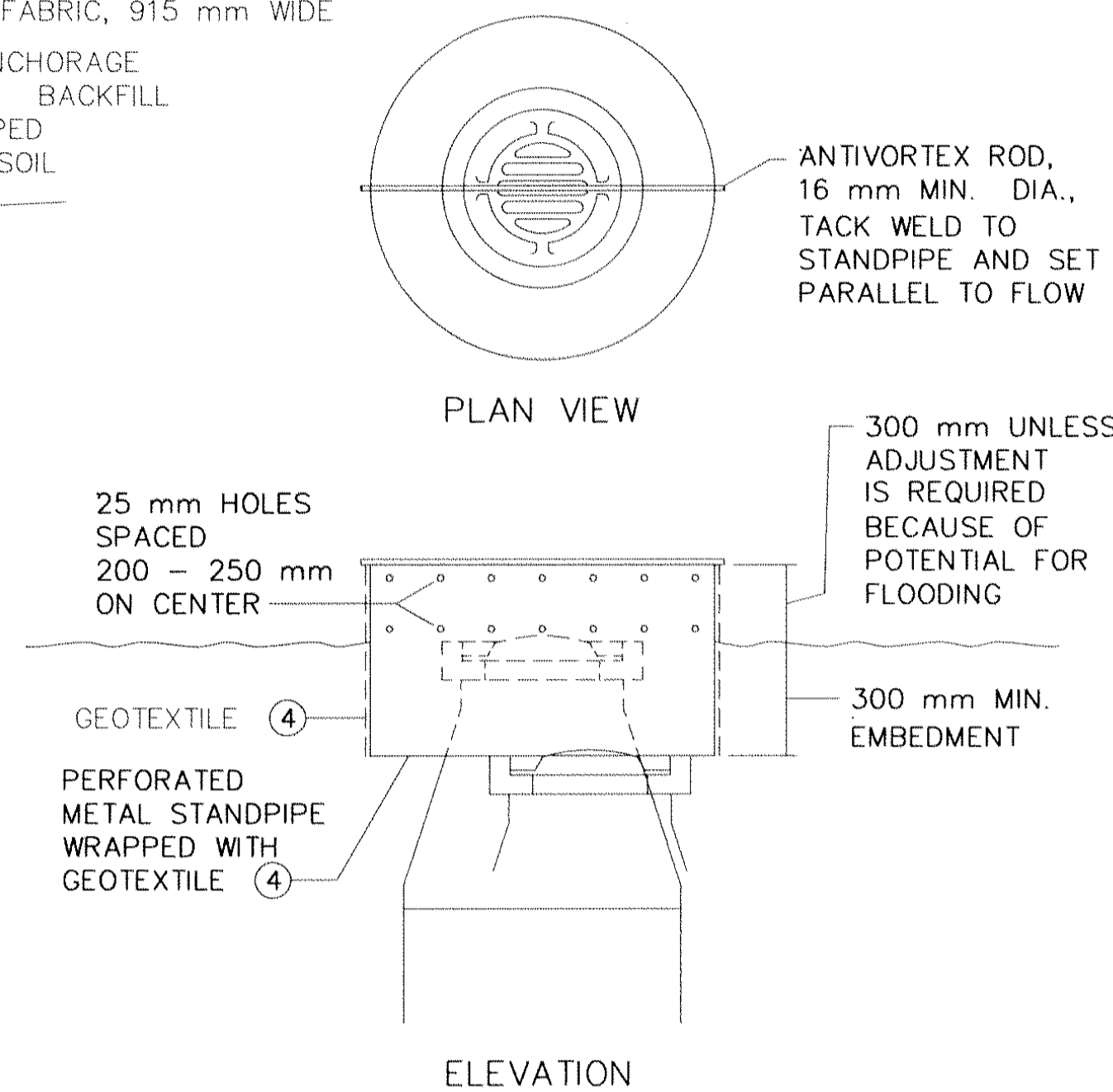
HEAVY DUTY



PREASSEMBLED

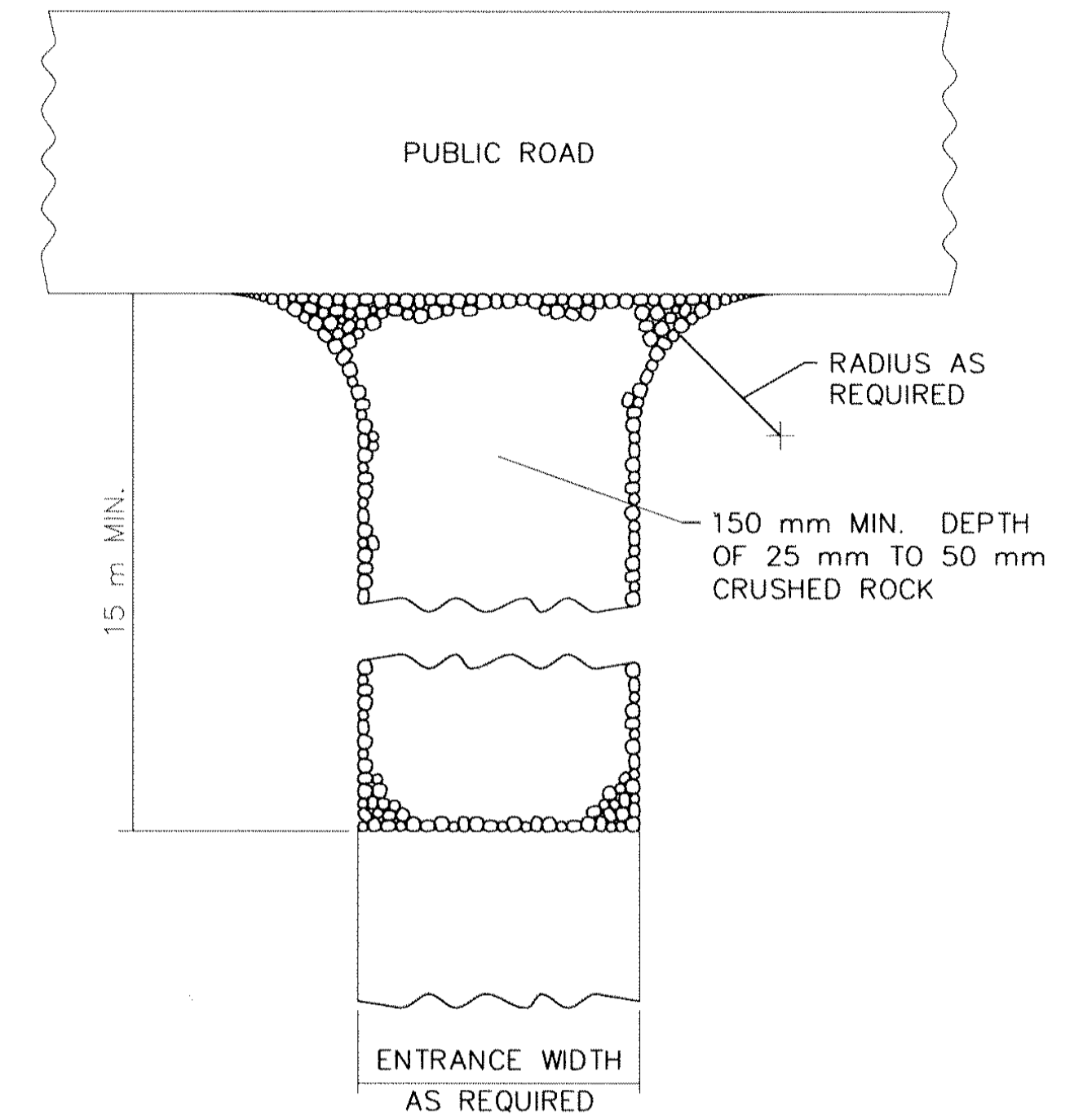


STANDARD MACHINE SLICED

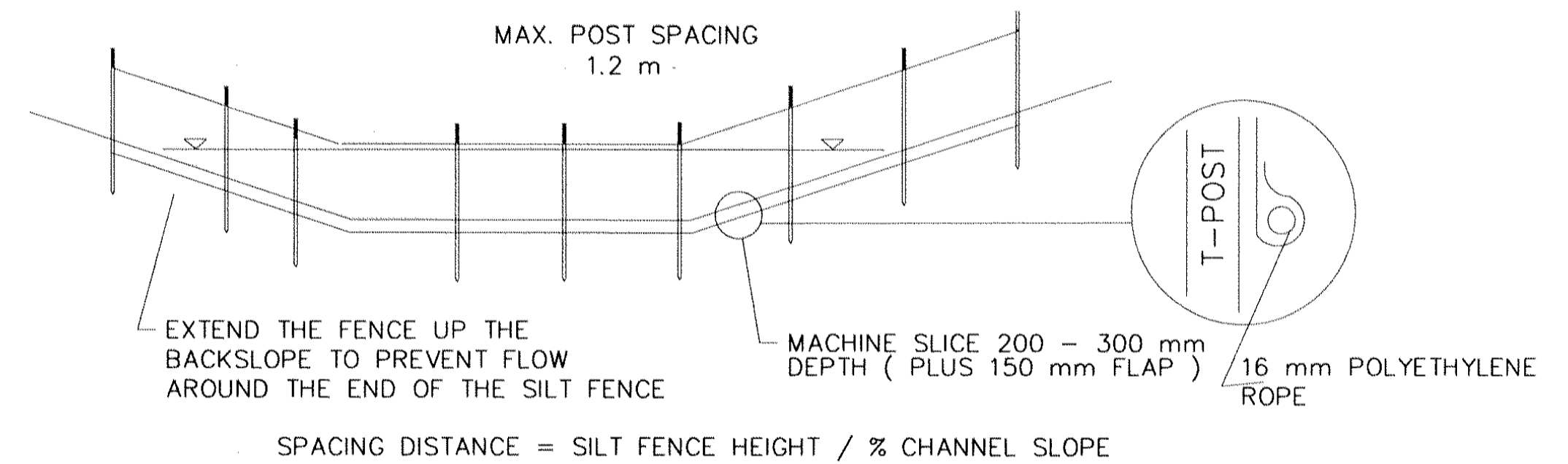


TEMPORARY STANDPIPE
TO PROTECT DROP INLET
TYPE A SPEC. 3891

DESIGN GUIDELINES:
STORM FREQUENCY: 10 YEAR. - 24 HOUR.



ROCK CONSTRUCTION ENTRANCE ③



DESIGN GUIDELINES	
STORM FREQUENCY	2 YR. - 24 HR.
MAX. DITCH GRADE	5%
MAX. DRAINAGE AREA	0.40 ha

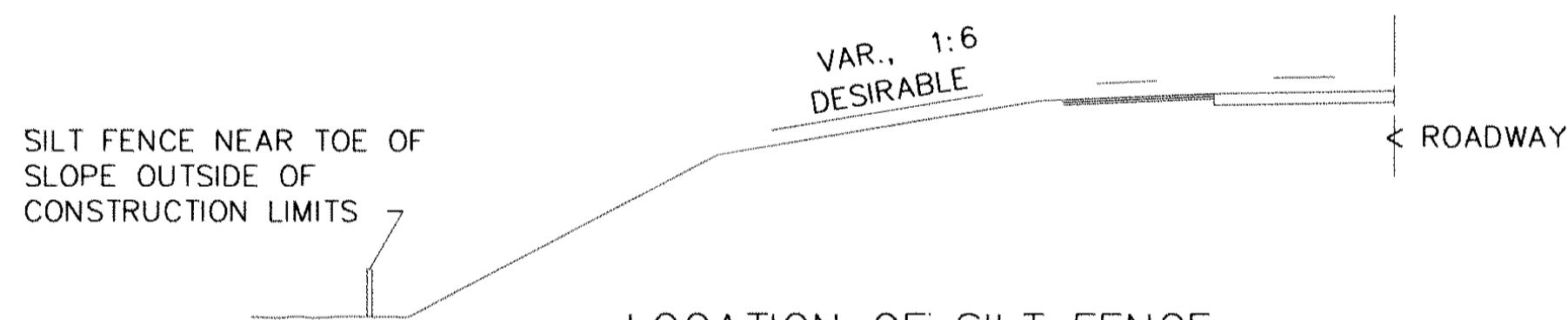
NOTE:
WHEN SEDIMENT BUILD UP REACHES 460 mm,
THE SILT SHOULD BE REMOVED OR A SECOND
SILT FENCE BUILT UPSTREAM FROM THE
EXISTING ONE AT A SUITABLE DISTANCE.

SILT FENCE DITCH CHECK, TYPE MACHINE SLICED

SPACING OF DITCH CHECKS IS DEPENDENT ON DRAINAGE AREA AND GRADES. SEE DISTRICT HYDRAULICS ENGINEER FOR RECOMMENDATIONS.

DESIGN GUIDELINES:
MAXIMUM CONTRIBUTING AREA: 1.2 h

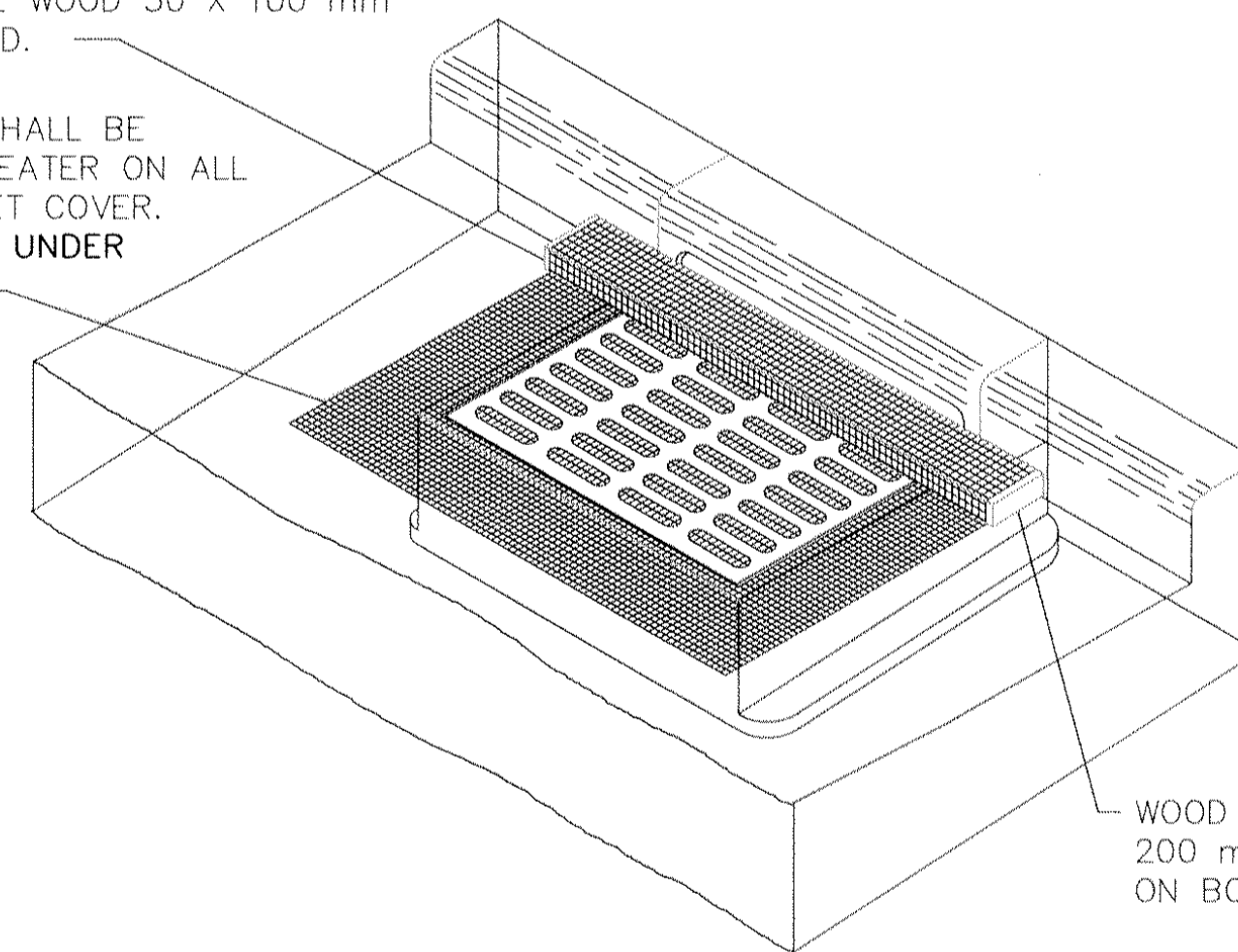
SILT FENCE DETAILS
TO PROTECT AREAS FROM SHEET FLOW
(SEE SPEC. 3886)



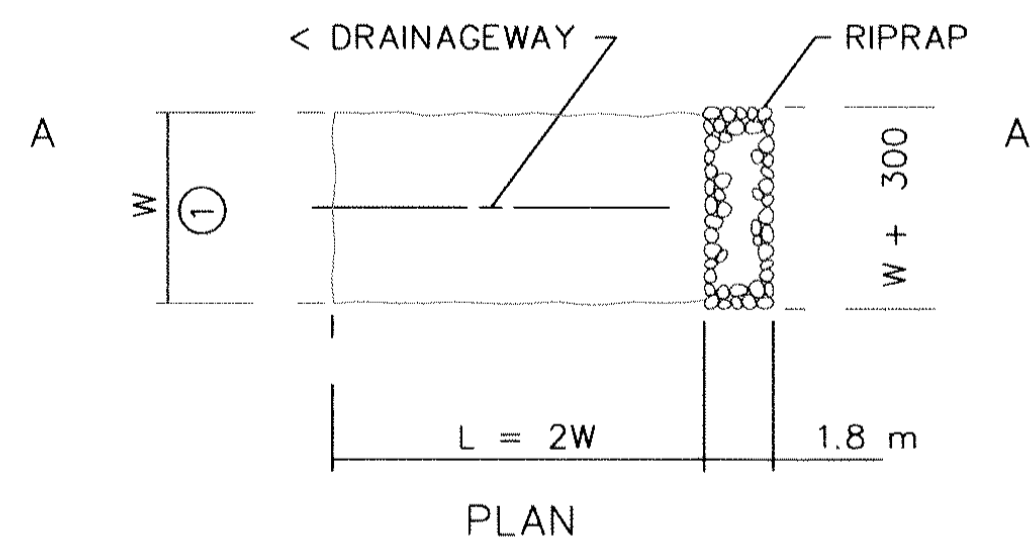
LOCATION OF SILT FENCE
AT TOE OF ROADWAY EMBANKMENT

AN ADDITIONAL 450 mm OF
GEOTEXTILE IS WRAPPED
AROUND THE WOOD 50 X 100 mm
AND STAPLED.

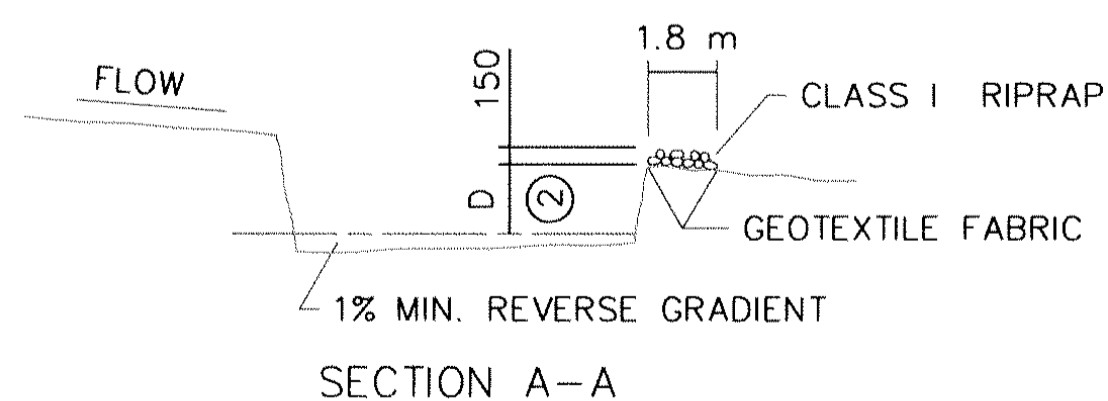
GEOTEXTILE SIZE SHALL BE
200 mm MIN. GREATER ON ALL
SIDES OF THE INLET COVER.
PLACE GEOTEXTILE UNDER
INLET COVER. ④



SILT FENCE BOX TO PROTECT DROP INLETS
TYPE A SPEC. 3891



PLAN



TEMPORARY SEDIMENT TRAP DETAIL

NOTES:

SEE SPECS. 2573, 3885, 3886, 3887, 3889, 3891, 3893 & 3894.

- ① W = 3 m MIN., 6 m MAX.
- ② D = 600 mm.
- ③ ROCKS AT ENTRANCE CLEAN WORKSITE MUD OFF OF TRUCK TIRES BEFORE DRIVING ON MAIN ROAD. THIS WILL PREVENT AUTO DAMAGE. WE NEED TO KEEP CONSTRUCTION SEDIMENT OUT OF DRAINAGE SYSTEMS AND WETLANDS.
- ④ ALL GEOTEXTILE USED FOR INLET PROTECTION SHALL BE MONO/MONO, MEETING SPEC. 3886 FOR MACHINE SLICED.

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\0263509\PLAN\12-ErosTemp1(M).dwg 04/22/2002 11:49:21 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: _____
SIGNATURE: _____
DATE: _____ REG. NO. _____

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

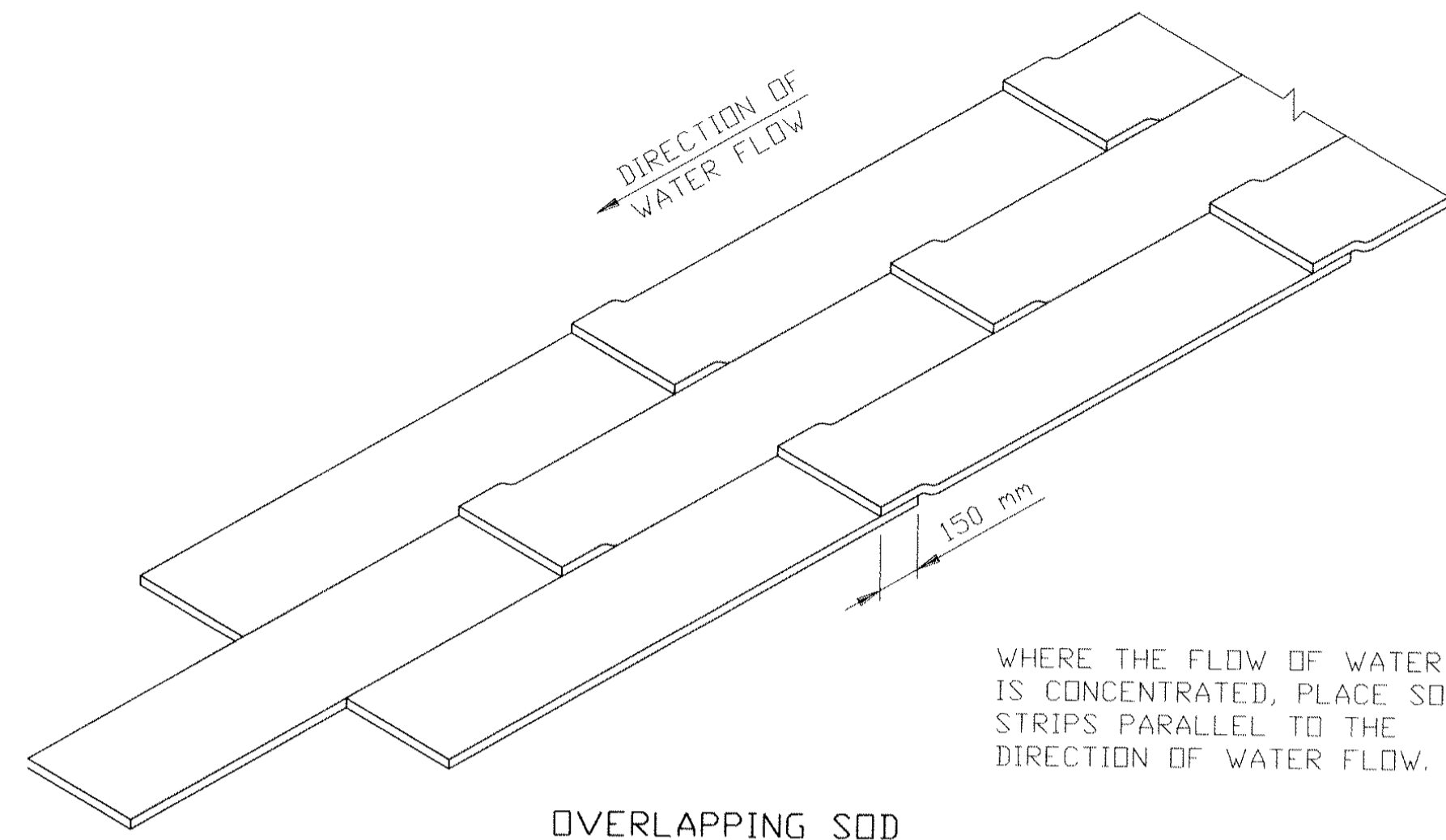


ANOKA COUNTY
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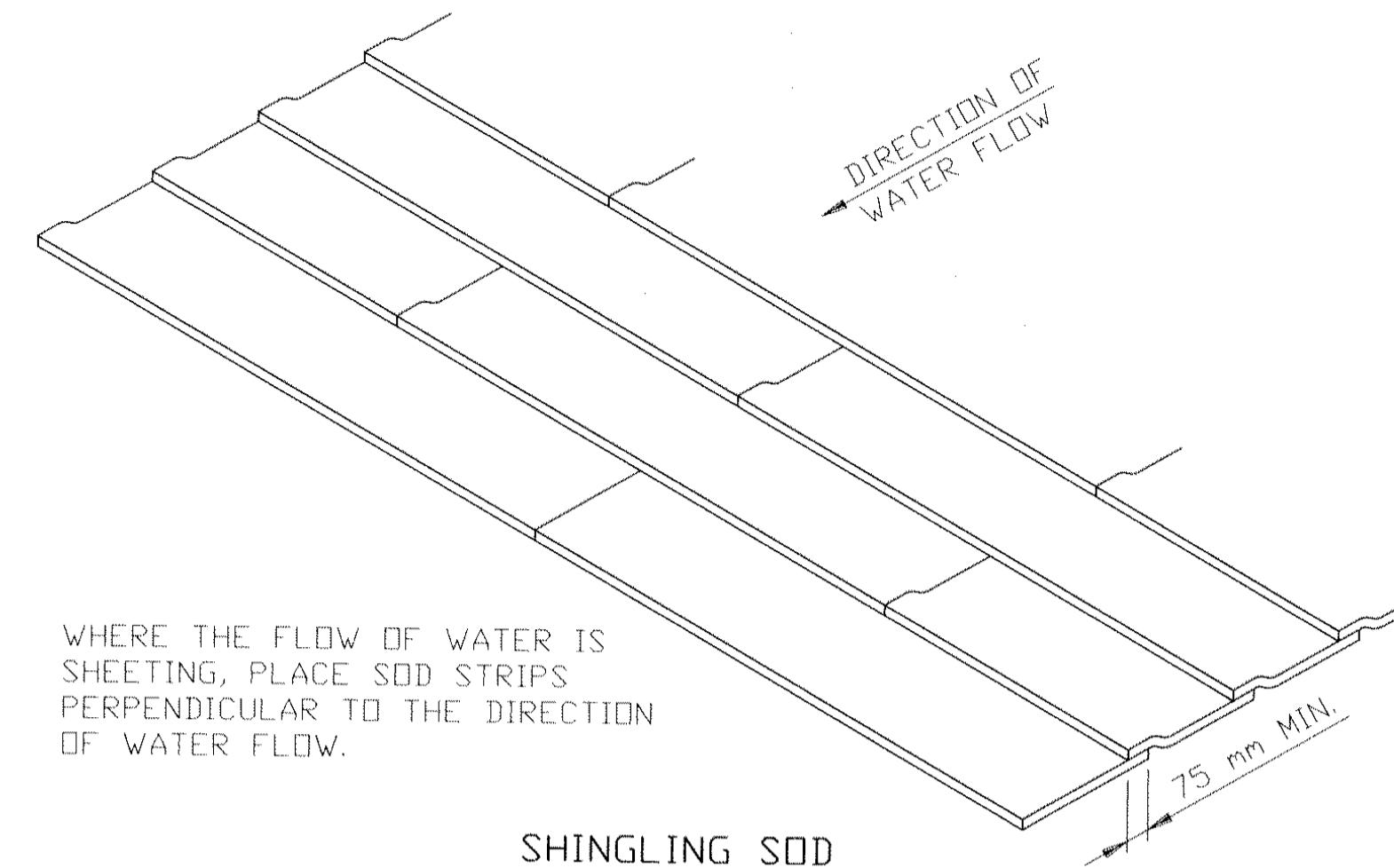
TEMP. EROSION DETAILS
(SHEET 1 OF 1)

Sheet 12 of 64 Sheets



OVERLAPPING SOD

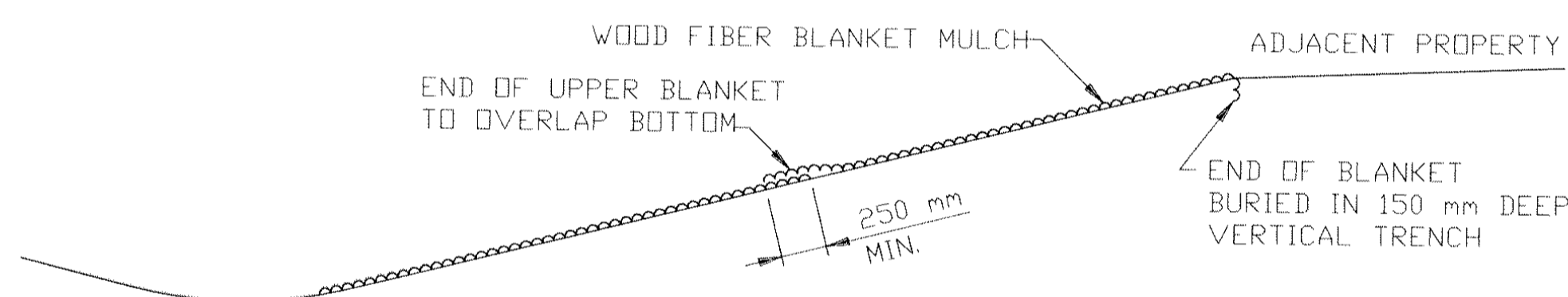
WHERE THE FLOW OF WATER IS CONCENTRATED, PLACE SOD STRIPS PARALLEL TO THE DIRECTION OF WATER FLOW.



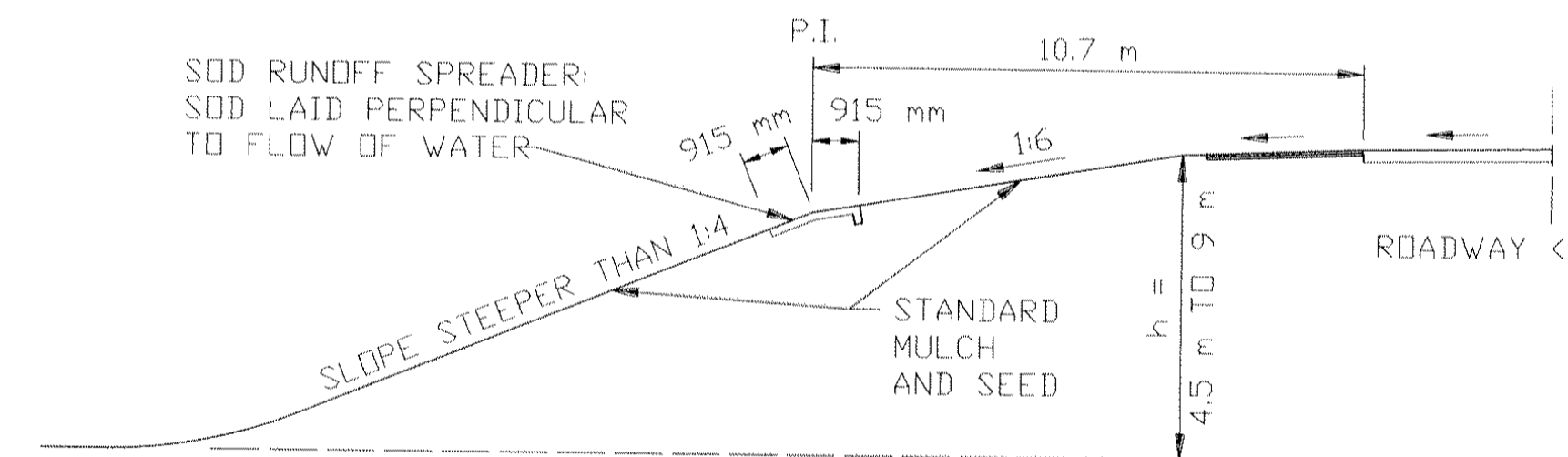
SHINGLING SOD

WHERE THE FLOW OF WATER IS SHEETING, PLACE SOD STRIPS PERPENDICULAR TO THE DIRECTION OF WATER FLOW.

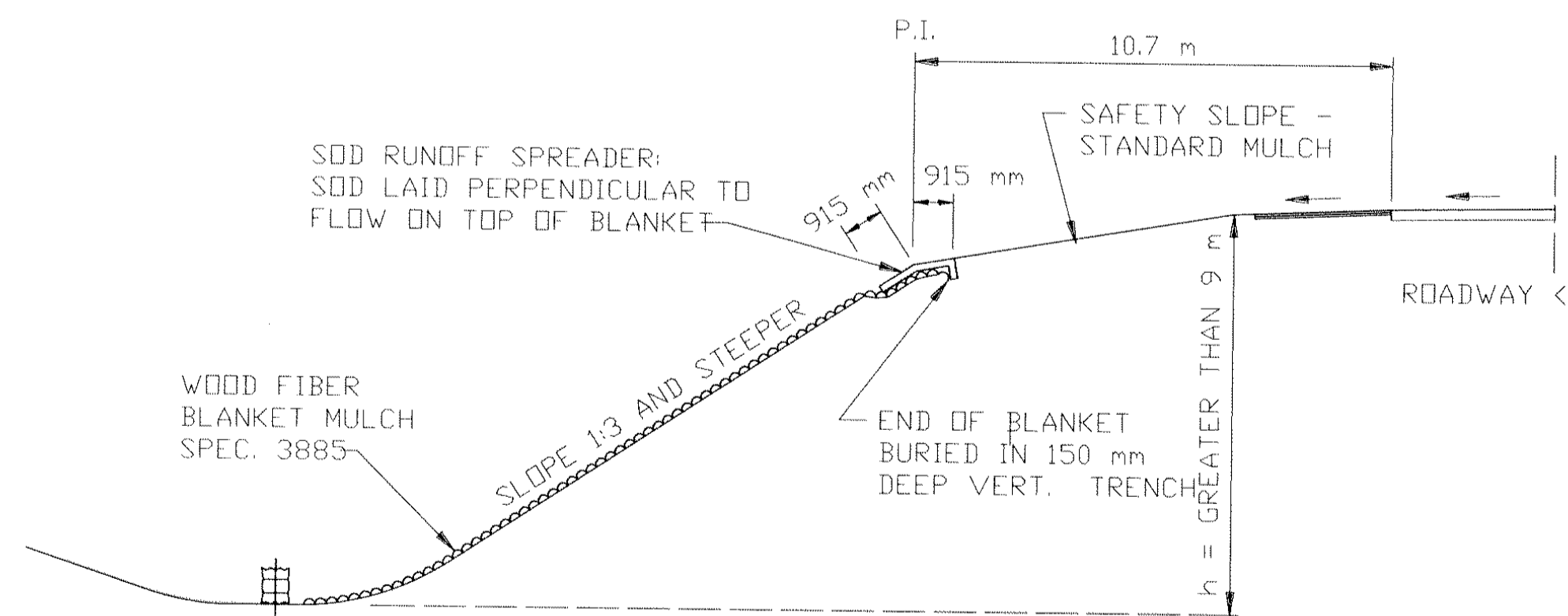
SPECIAL SOD PLACEMENT TECHNIQUES



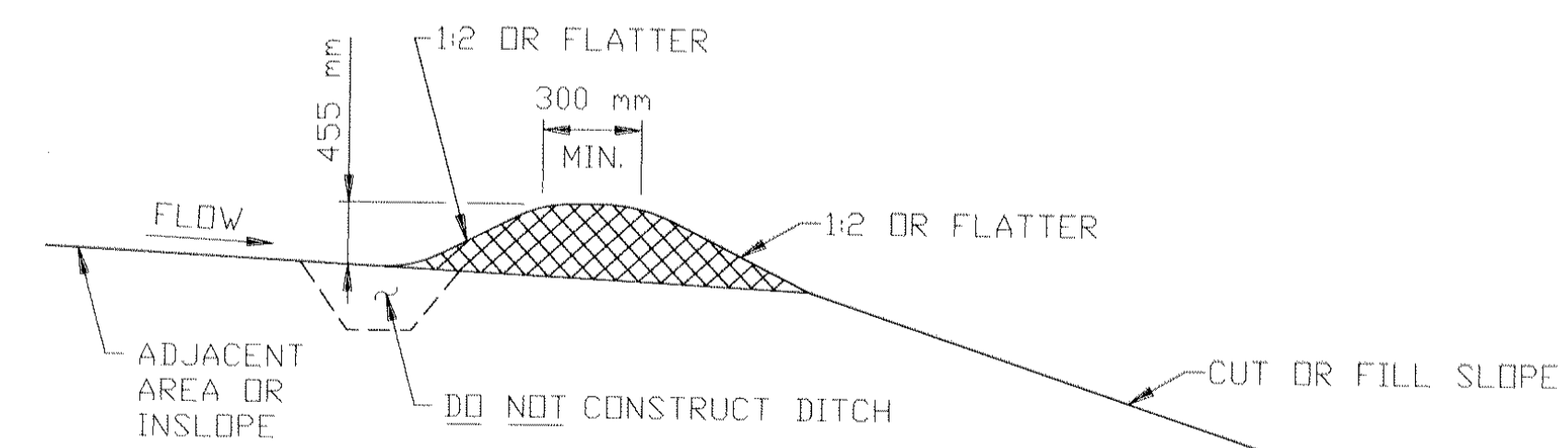
WOOD FIBER BLANKET INSTALLATION ON A CUT SLOPE



BROKEN-BACK SAFETY FILL SLOPE



WOOD FIBER BLANKET INSTALLATION ON AN INSLOPE
(WHEN REQUIRED)



PERMANENT SLOPE PROTECTION DIKE

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.

DATE _____ REG. NO. _____

DRAWN BY MN DATE 00/00/00

DESIGN BY LAR DATE 00/00/00

CHECKED BY LAR DATE 00/00/00



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09

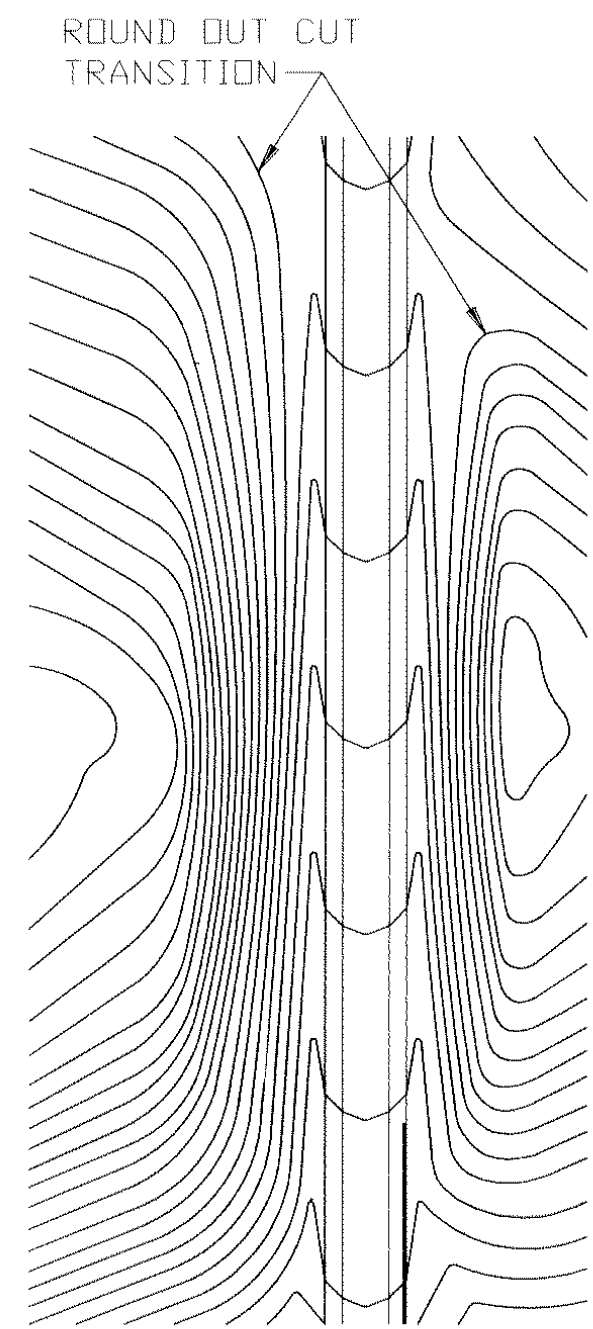
STATE PROJECT NO. 183-101-08

STATE PROJECT NO. 146-080-01

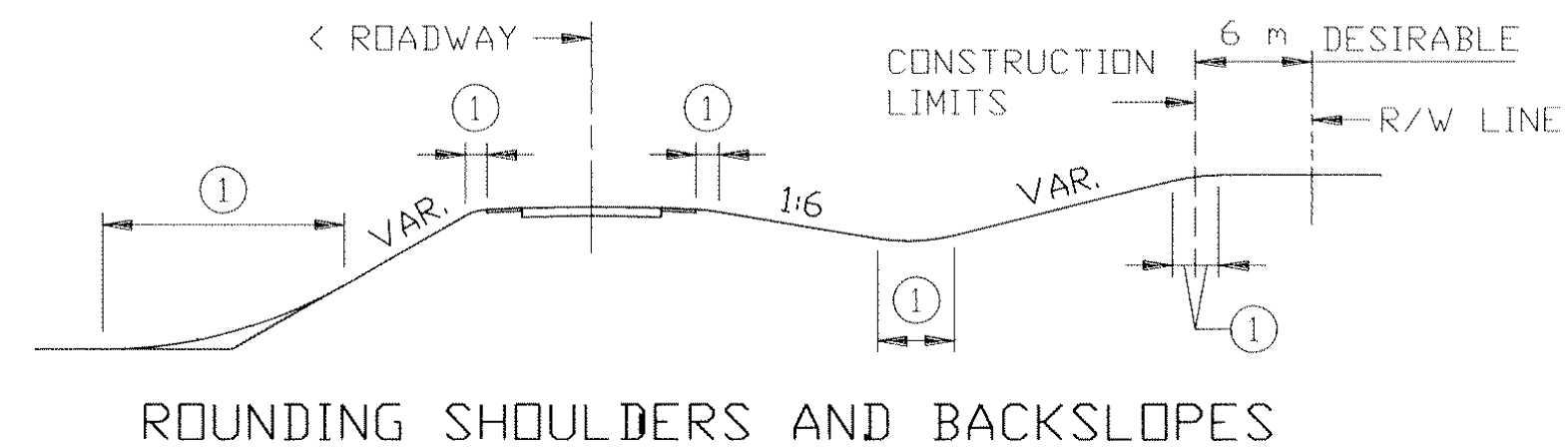
COUNTY PROJECT NO. _____

PERM. EROSION DETAILS
(SHEET 1 OF 2)

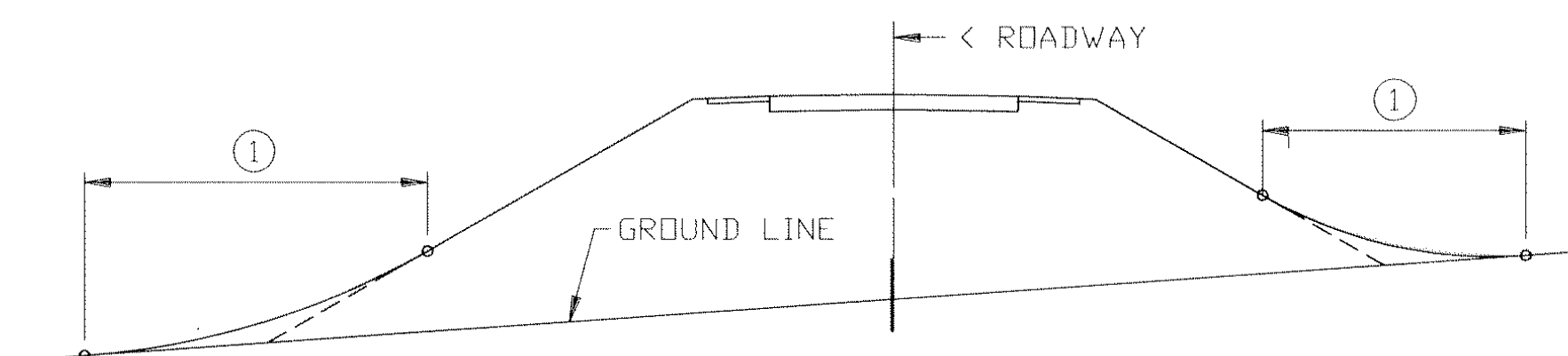
Sheet 13 of 64 Sheets



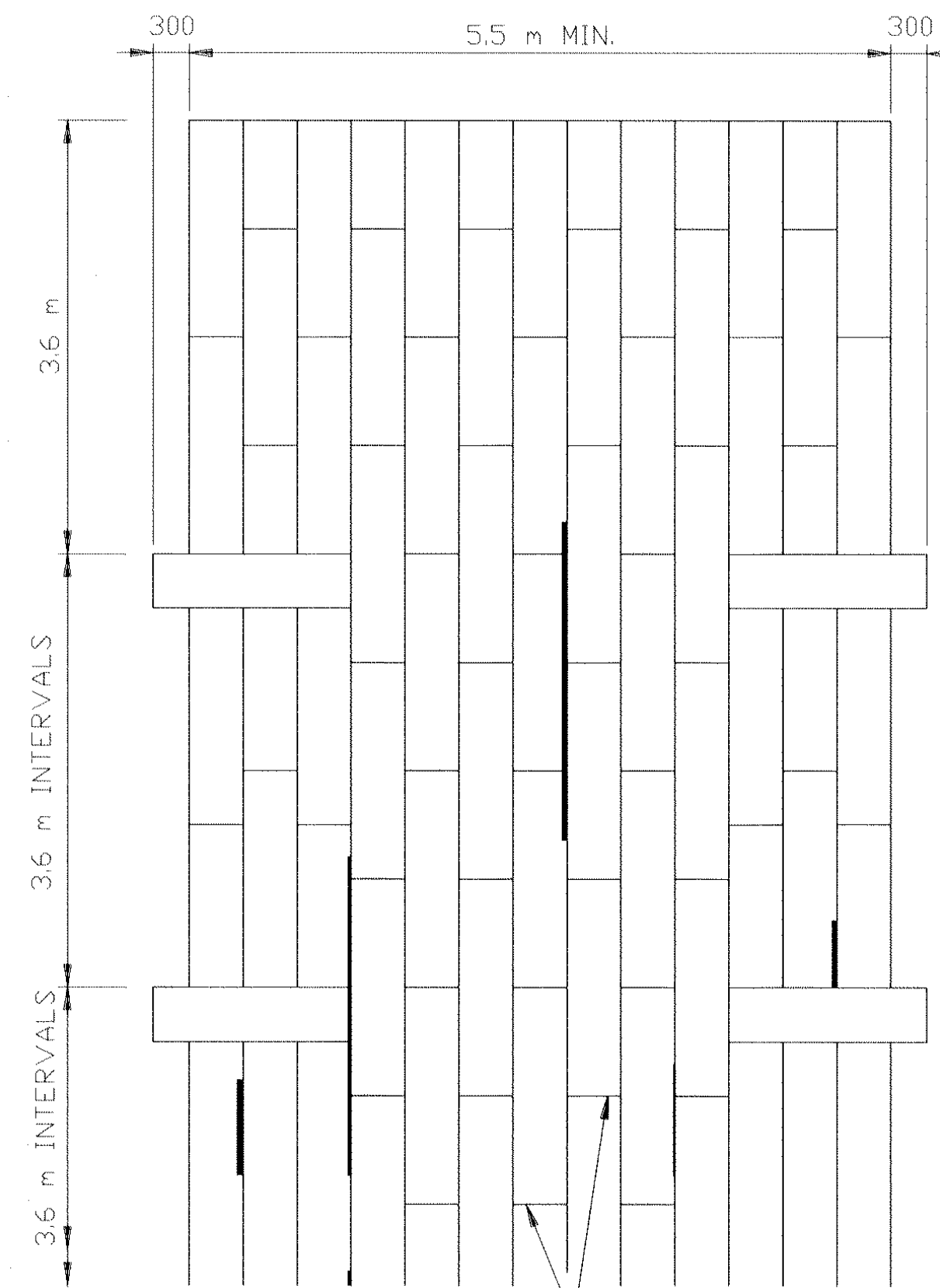
CONTOURING ROAD CUTS



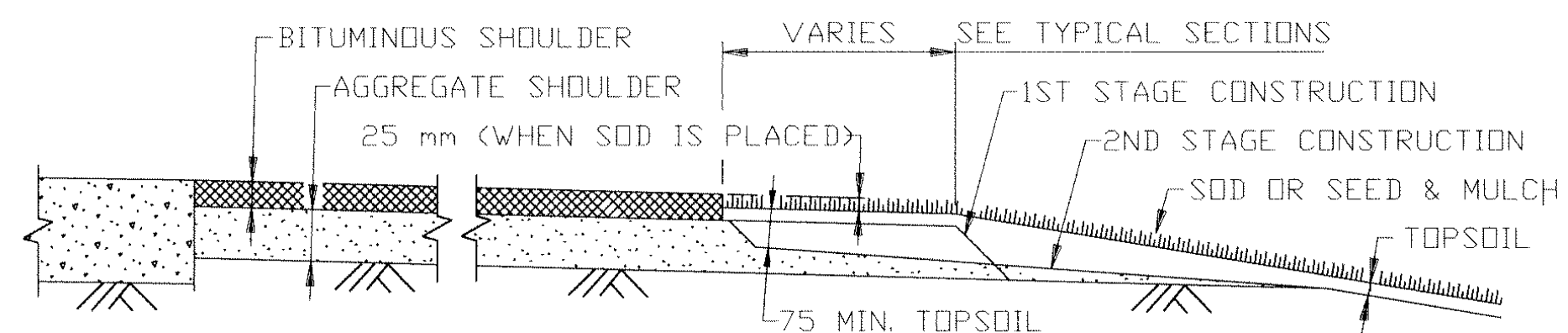
ROUNDING SHOULDERS AND BACKSLOPES



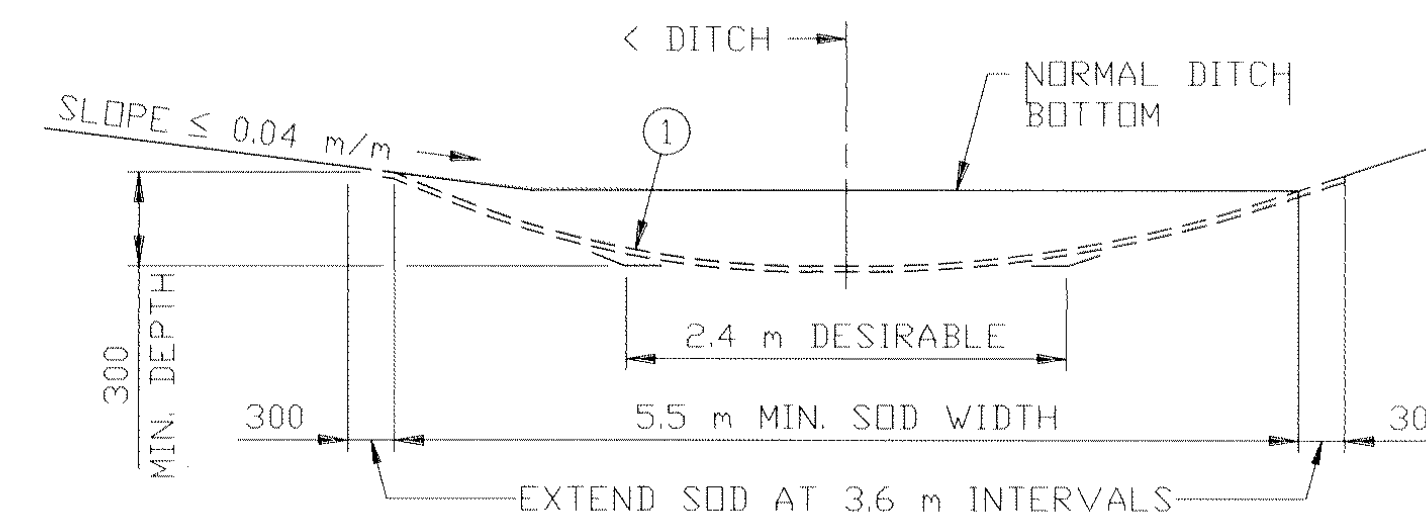
SHAPING FOR DRAINAGE ALONG THE TOE OF FILL SLOPES



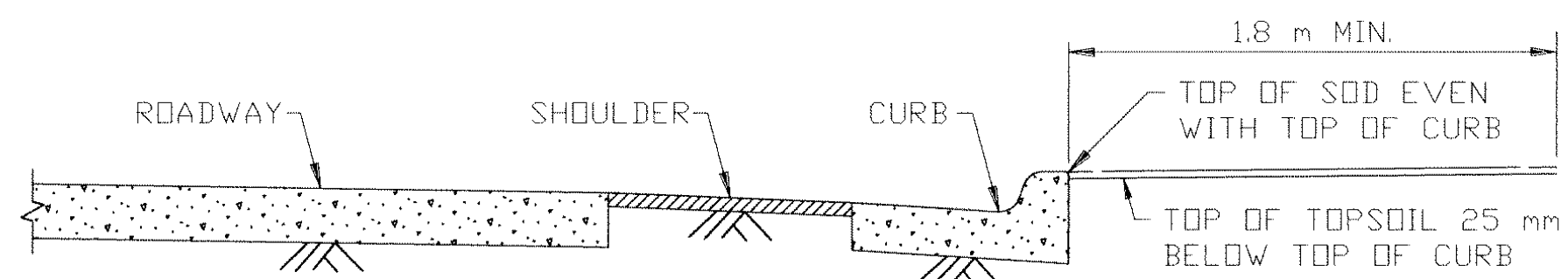
PLAN VIEW



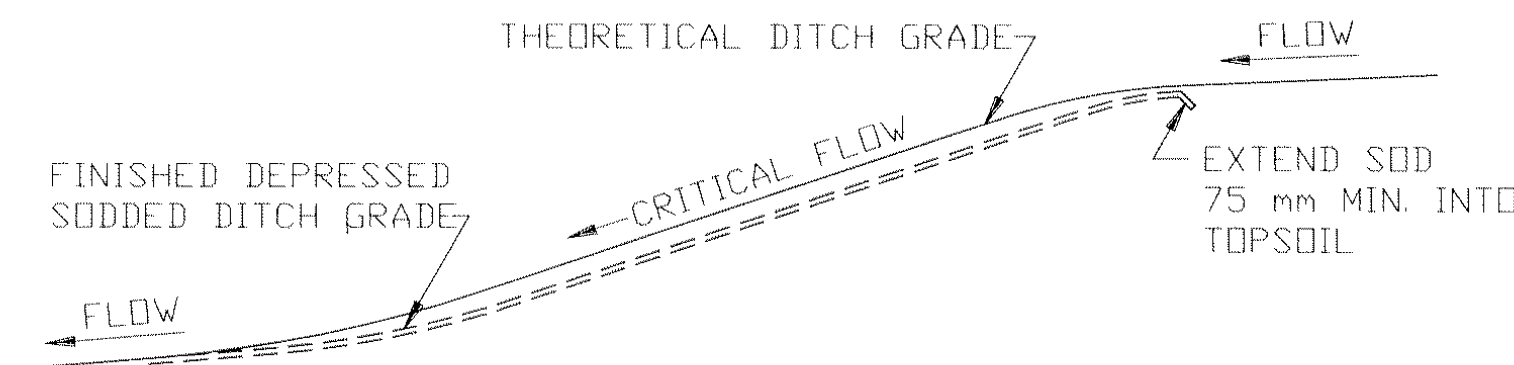
SHAPING AND TOPSOILING INSLOPES



SODDED DITCH CROSS SECTION
WHERE FRONT OR BACK SLOPE IS FLAT (LESS THAN 0.04 m/m), FIRST NOTCH DITCH AND THEN PROVIDE ROUNDING.



- NOTES:
SEE SPEC. 2575.3 FOR ADDITIONAL INFORMATION.
① FOR ROUNDING, SEE ROAD DESIGN MANUAL.
② CONSTRUCT TAPER AS DIRECTED BY THE ENGINEER.



DITCH PROFILE
SODDED DITCH DETAILS

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS, EXCEPT AS NOTED.

NO	DATE	BY	CKD	APPR	REVISION

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DATE _____ REG. NO. _____

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

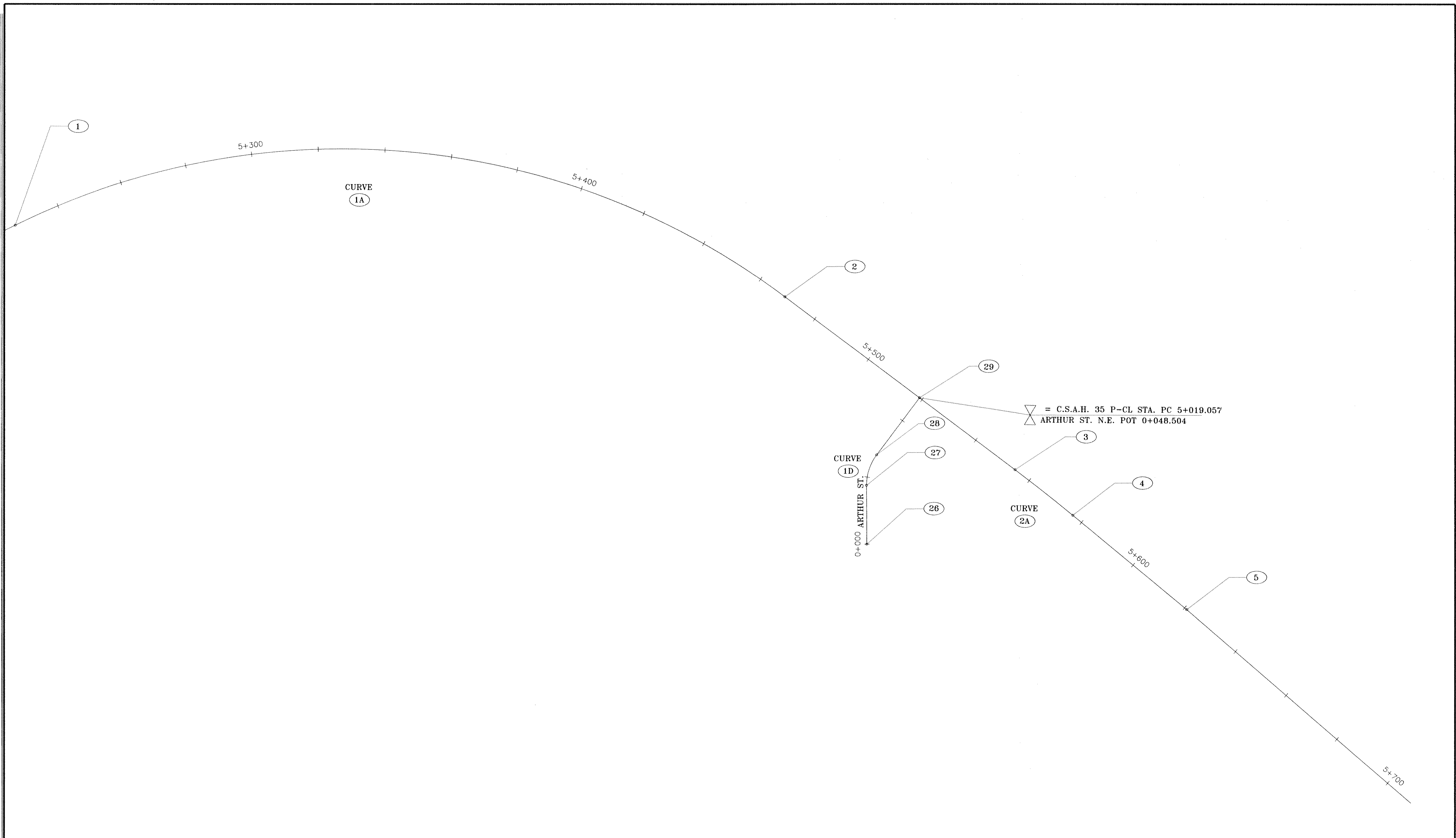


ANOKA COUNTY
HIGHWAY DEPT.



STATE PROJECT NO. 02-635-09
STATE PROJECT NO. 183-101-08
STATE PROJECT NO. 146-080-01
COUNTY PROJECT NO. _____

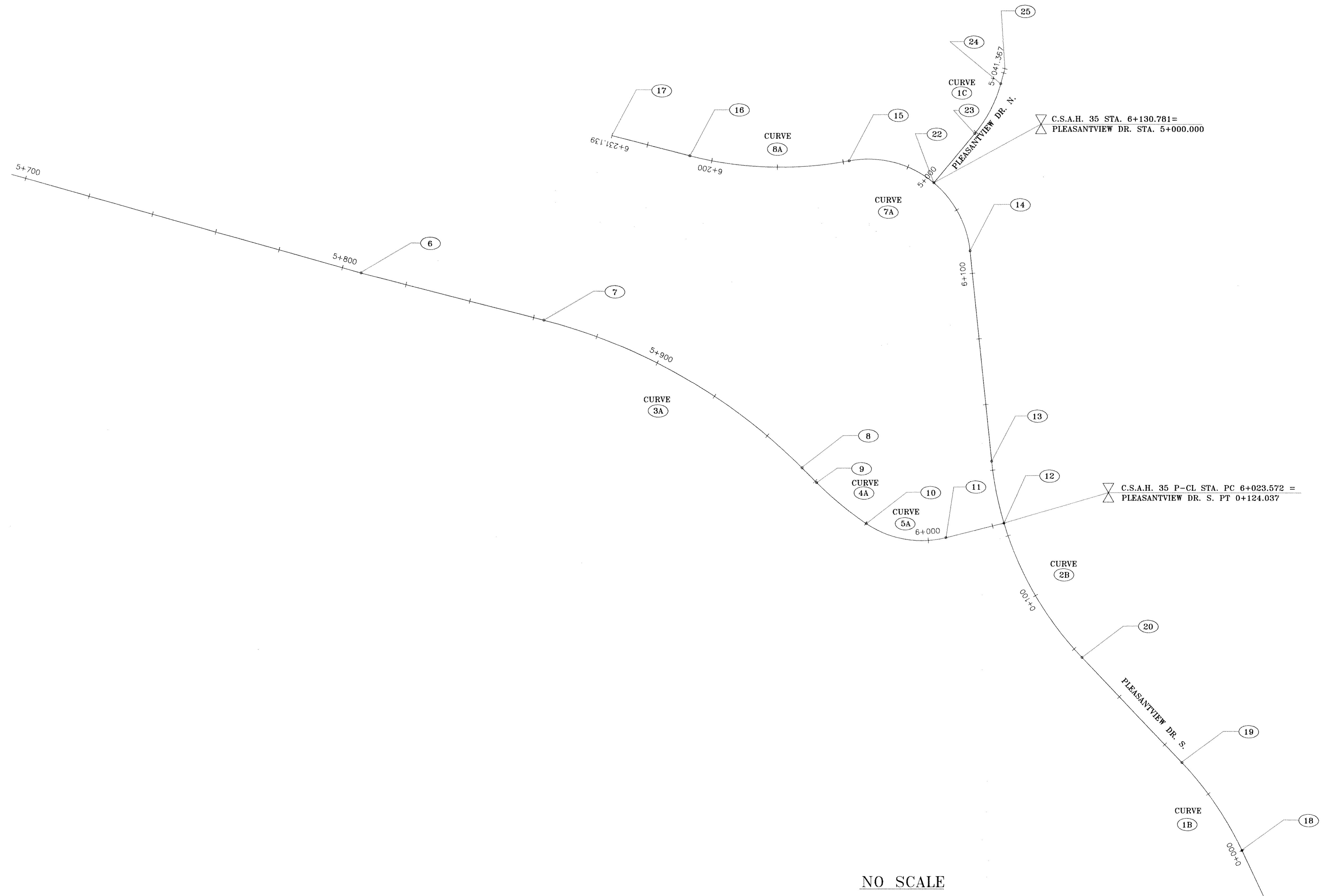
PERM. EROSION DETAILS
(SHEET 2 OF 2)

Sheet 14 of 64 Sheets



NO SCALE

<table border="1"> <thead> <tr> <th>NO</th> <th>DATE</th> <th>BY</th> <th>CKD</th> <th>APPR</th> <th>REVISION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>					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. DATE _____ REG. NO. _____		 ANOKA COUNTY HIGHWAY DEPT.		STATE PROJECT NO. 02-635-09 STATE PROJECT NO. 183-101-08 STATE PROJECT NO. 146-080-01 COUNTY PROJECT NO. _____		ALIGNMENT STA 5+226.014 TO 5+700.000 & ARTHUR ST. <hr/> Sheet 15 of 64 Sheets	
NO	DATE	BY	CKD	APPR	REVISION																					
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NO SCALE

NO	DATE	BY	CKD	APPR	REVISION



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DATE _____ REG. NO. _____

DRAWN BY...KGJ... DATE ..00/00/01
 DESIGN BY...KGJ... DATE ..00/00/01
 CHECKED BY...LR... DATE ..00/00/01



**ANOKA COUNTY
HIGHWAY DEPT.**

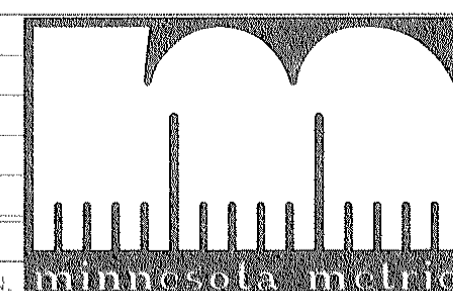
STATE PROJECT NO. 02-635-09
 STATE PROJECT NO. 183-101-08
 STATE PROJECT NO. 146-080-01
 COUNTY PROJECT NO. _____

ALIGNMENT
 STA 5+700.000 TO 6+231.139
 PLEASANTVIEW DR. N. & S.

Sheet 16 of 64 Sheets

ALIGNMENT TABULATION												
CURVE NO.	POINT NO.	POINT TYPE.	LOCATION	AZIMUTH	DELTA DEG.	LT/RT	RADIUS	TANGENT	LENGTH	NORTHING	EASTING	
P-CL C.S.A.H. 35												
1A	1	PC	5+226.014							22427.196	273527.774	
	2	PI	5+361.534		63.2662	R	220.000	135.520	242.925	22487.327	273649.223	
	3	PT	5+468.939							22405.910	273757.560	
2A	4	PC	5+554.688							22354.394	273826.110	
	5	PI	5+565.664		2.5151	LT	500.000	10.976	21.948	22347.800	273834.885	
	6	PT	5+576.637							22340.827	273843.361	
	7	PI	5+620.827		1.2200	RT				22312.754	273877.488	
	8	PI	5+805.878		1.2200	LT				22192.179	274017.865	
3A	9	PC	5+863.220							22155.751	274062.149	
	10	PI	5+909.914		30.7174	RT	170.000	46.694	91.140	22126.088	274098.210	
	11	PT	5+954.360							22082.166	274114.060	
4A	12	PC	5+960.648							22076.251	274116.194	
	13	PI	5+970.444		11.0787	LT	101.000	9.795	19.529	22067.037	274119.519	
5A	14	PC	5+980.178							22058.634	274124.552	
	15	PI	5+993.608		48.2339	LT	30.000	13.430	25.255	22047.112	274131.453	
	16	PT	6+005.433							22044.585	274144.644	
6A	17	PI/PC	6+023.572		92.3523	LT				22041.172	274162.459	
	18	PI	6+033.163		10.8491	RT	101.000	9.591	19.125	22050.664	274163.836	
	19	PT	6+042.697							22059.727	274166.975	
7A	20	PC	6+106.807							22120.306	274187.959	
	21	PI	6+140.593		94.9235	LT	31.000	33.785	51.359	22112.029	274155.203	
8A	22	PC/PT	6+158.166							22160.507	274166.261	
	23	PI	6+182.842		25.2877	RT	110.000	24.676	48.549	22188.284	274147.211	
	24	PT	6+206.715							22182.239	274123.287	
	25	POT	6+231.139							22197.764	274104.433	
P-CL PLEASANTVIEW DR. SO.												
CURVE NO.	POINT NO.	POINT TYPE.	LOCATION	AZIMUTH	DELTA DEG.	LT/RT	RADIUS	TANGENT	LENGTH	NORTHING	EASTING	
1B	18	PC	0+000.000							21920.687	274186.246	
	19	PI	0+016.350		18.3911	LT	101.000	16.350	32.420	21905.202	274180.997	
	20	PT	0+032.420							21952.522	274180.902	
2B	21	PC	0+076.475							21994.245	274166.759	
	22	PI	0+100.705		26.9811	RT	101.000	24.230	47.562	22017.193	274158.980	
	23	PT	0+124.037							22041.172	274162.459	
P-CL PLEASANTVIEW DR. NO.												
CURVE NO.	POINT NO.	POINT TYPE.	LOCATION	AZIMUTH	DELTA DEG.	LT/RT	RADIUS	TANGENT	LENGTH	NORTHING	EASTING	
1C	22	POC	5+000.000							22143.654	274186.715	
	23	PC	5+019.410							22151.914	274204.265	
	24	PI	5+028.140		24.6204	LT	40.000	8.730	17.190	22155.631	274212.163	
	25	PT	5+036.600							22162.301	274217.794	
	26	POT	5+041.367							22165.954	274220.879	
P-CL ARTHUR ST. N.E.												
CURVE NO.	POINT NO.	POINT TYPE.	LOCATION	AZIMUTH	DELTA DEG.	LT/RT	RADIUS	TANGENT	LENGTH	NORTHING	EASTING	
1D	26	PI	0+000.000							22332.210	273781.968	
	27	PC	0+017.519							22349.729	273781.864	
	28	PI	0+022.577		37.2681	RT	15.000	5.060	9.760	22354.787	273781.833	
	29	PT	0+027.276							22358.830	273784.872	
	30	POT	0+048.504							22375.801	273797.626	

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.

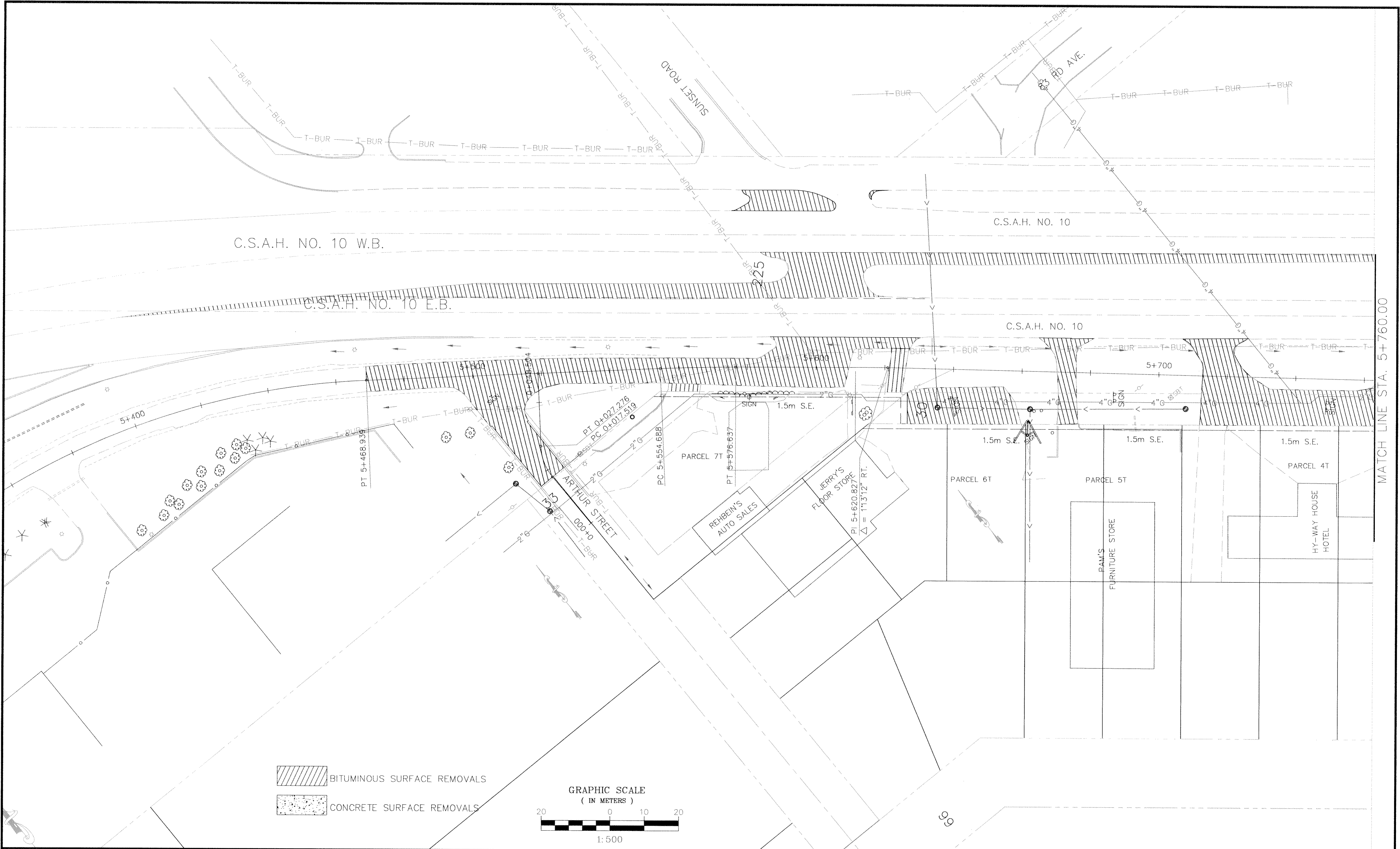
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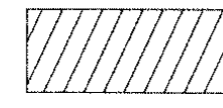
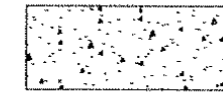
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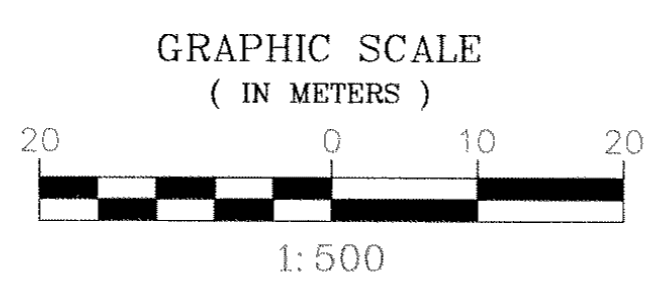


STATE PROJECT NO. 02-635-09
 STATE PROJECT NO. 183-101-08
 STATE PROJECT NO. 146-080-01
 COUNTY PROJECT NO. _____

ALIGNMENT TABULATION
 Sheet 17 of 64 Sheets

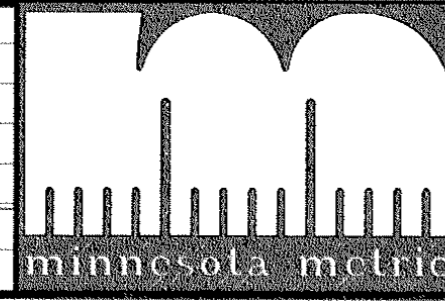


 BITUMINOUS SURFACE REMOVALS
 CONCRETE SURFACE REMOVALS




NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\0263509\PLAN\18-19-Removal-plan.dwg 04/22/2002 01:29:19 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: _____
 SIGNATURE: _____
 DATE: _____ LICENSE NO. _____

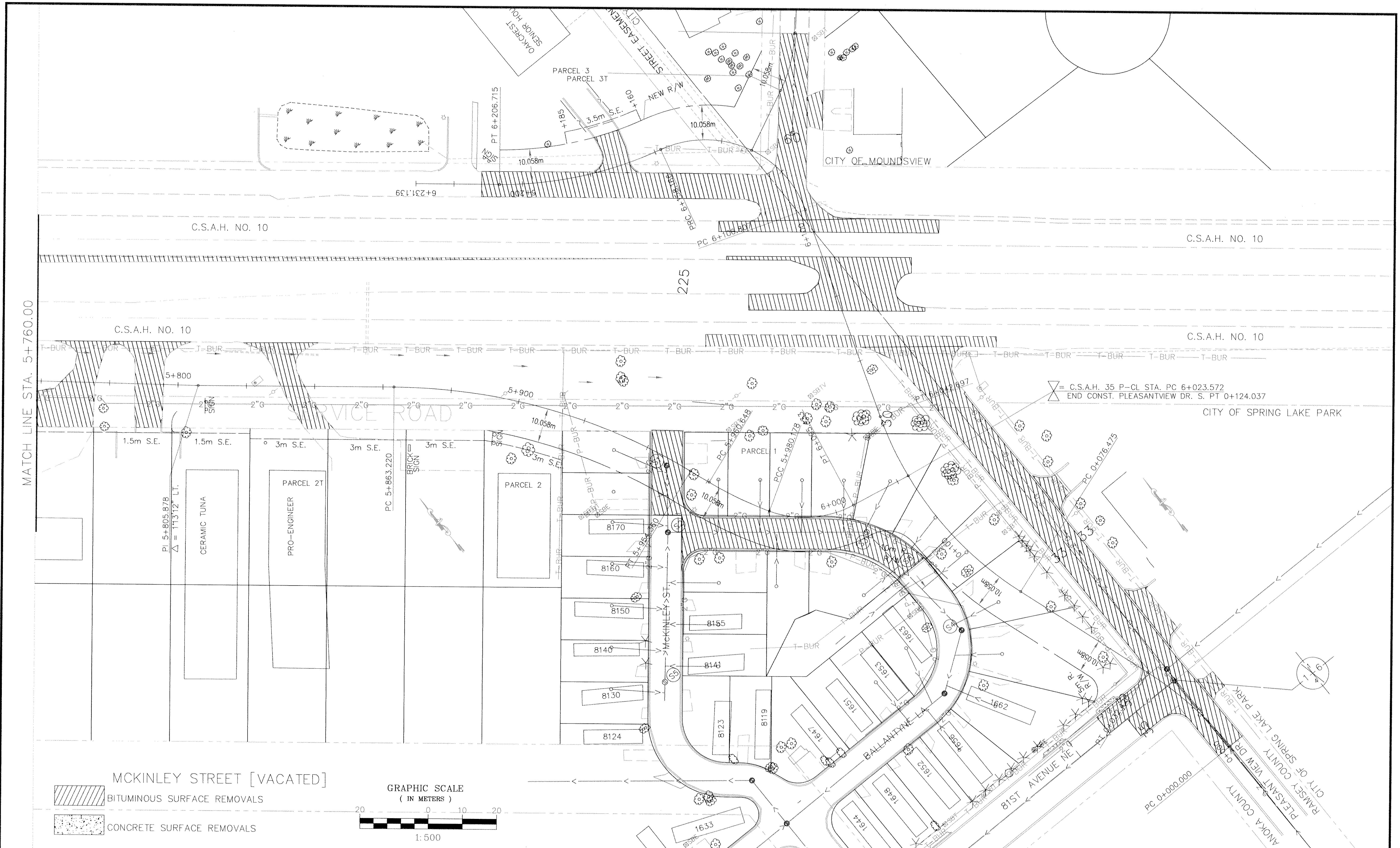
DRAWN BY: M.N. DATE: __/__/__
 DESIGN BY: M.N. DATE: __/__/__
 CHECKED BY: L.R. DATE: __/__/__

 ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. 02-609-09
 STATE AID PROJECT NO. 183-101-08
 STATE AID PROJECT NO. 146-080-01
 COUNTY PROJECT NO. _____

EXISTING CONDATIONS AND REMOVAL PLAN
 STA 5+400.000 TO 5+760.000
 Sheet 18 of 64 Sheets

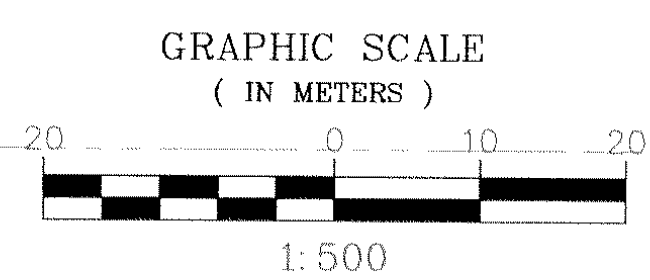
MATCH LINE STA. 5+760.00



MCKINLEY STREET [VACATED]

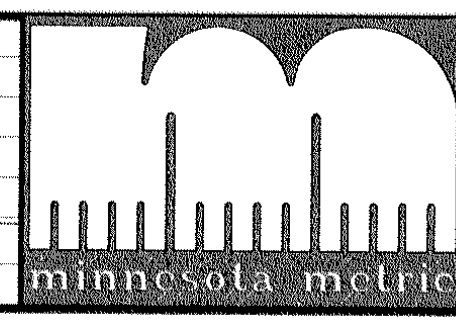
BITUMINOUS SURFACE REMOVALS

CONCRETE SURFACE REMOVALS



NO	DATE	BY	CKD	APPR	REVISION

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PRINT NAME: _____
 SIGNATURE: _____
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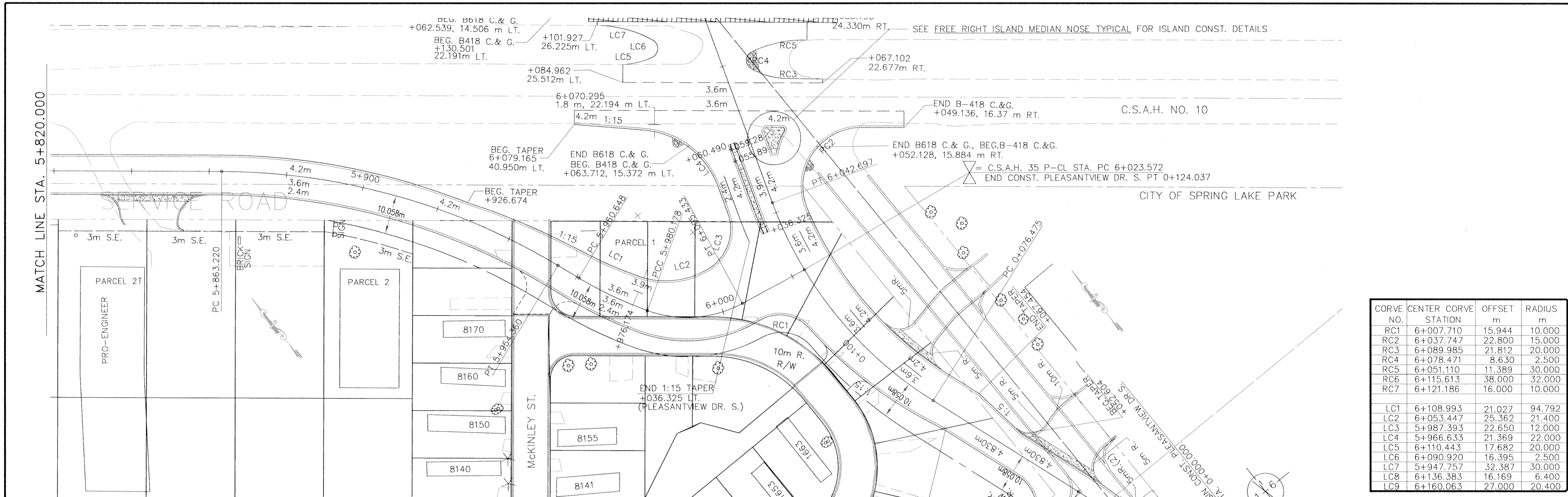
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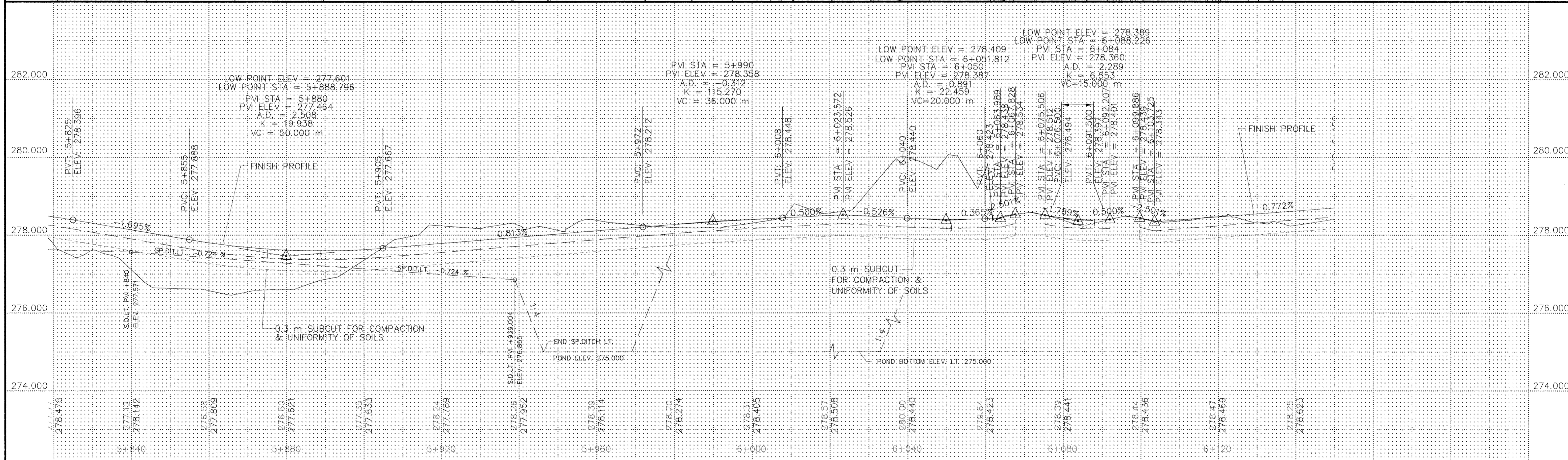
ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. 02-609-09
 STATE AID PROJECT NO. 183-101-08
 STATE AID PROJECT NO. 146-080-01
 COUNTY PROJECT NO. _____

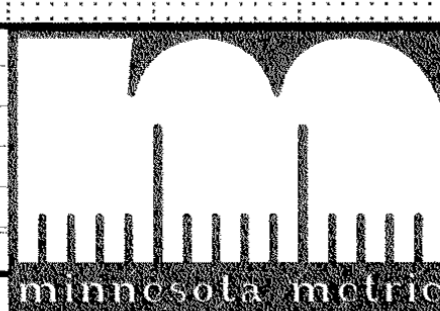
EXISTING CONDATIONS AND REMOVAL PLAN
 STA 5+760.000 TO 6+140.000
 Sheet 19 of 64 Sheets



CORVE NO.	CENTER STATION	OFFSET m	RADIUS m
RC1	6+007.710	15.944	10.000
RC2	6+037.747	22.800	15.000
RC3	6+089.985	21.812	20.000
RC4	6+078.471	8.630	2.500
RC5	6+051.110	11.389	30.000
RC6	6+115.613	38.000	32.000
RC7	6+121.186	16.000	10.000
LC1	6+108.993	21.027	94.792
LC2	6+053.447	25.362	21.400
LC3	5+987.393	22.650	12.000
LC4	5+966.633	21.369	22.000
LC5	6+110.443	17.682	20.000
LC6	6+090.920	16.395	2.500
LC7	5+947.757	32.387	30.000
LC8	6+136.383	16.169	6.400
LC9	6+160.063	27.000	20.400



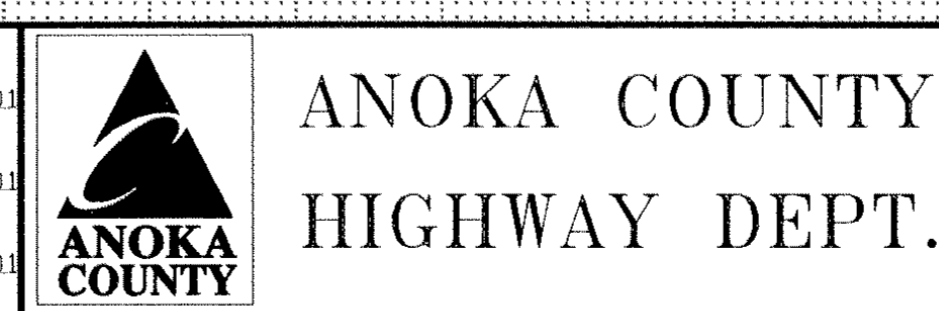
NO	DATE	BY	CKD	APPR	REVISION



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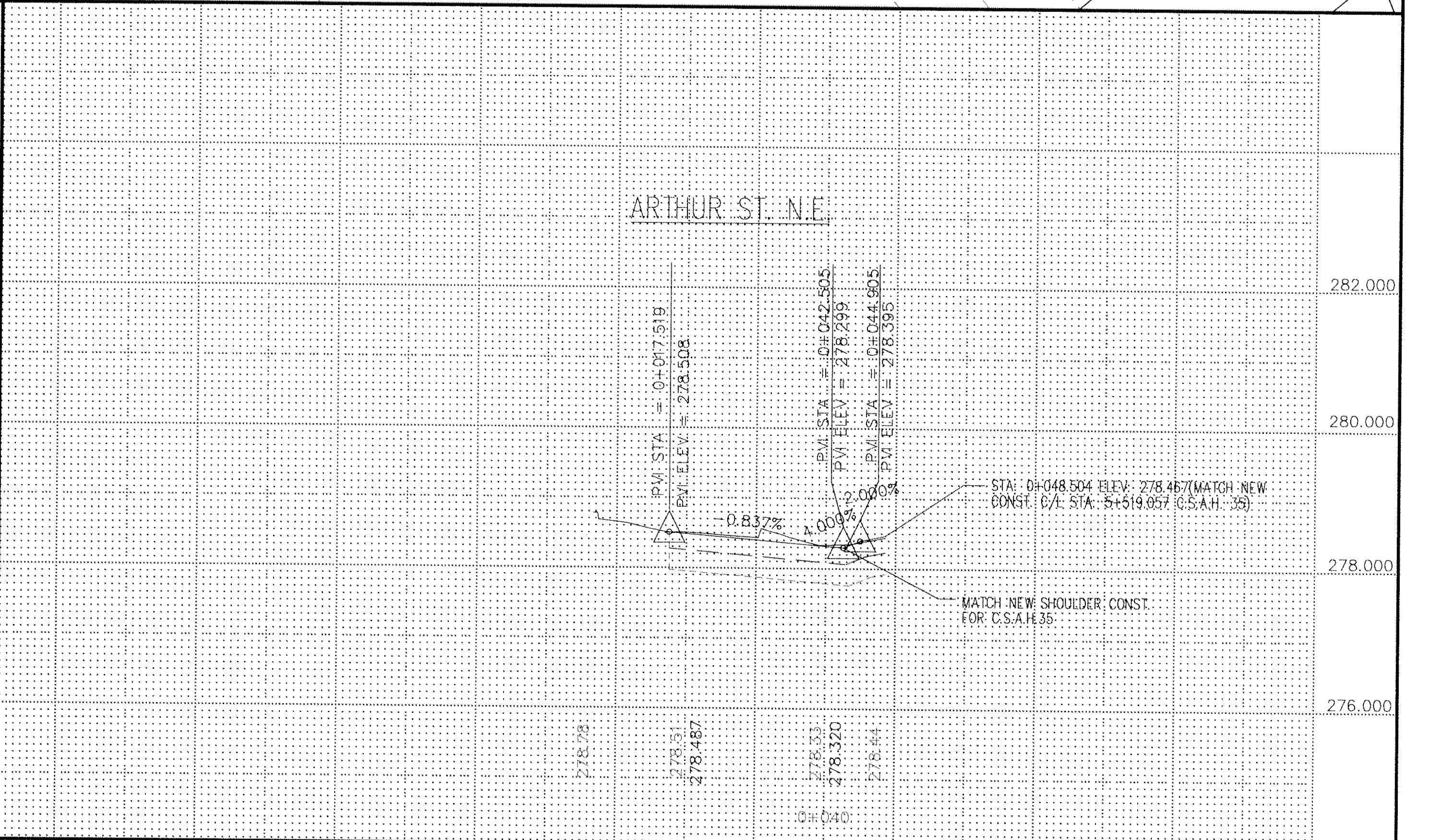
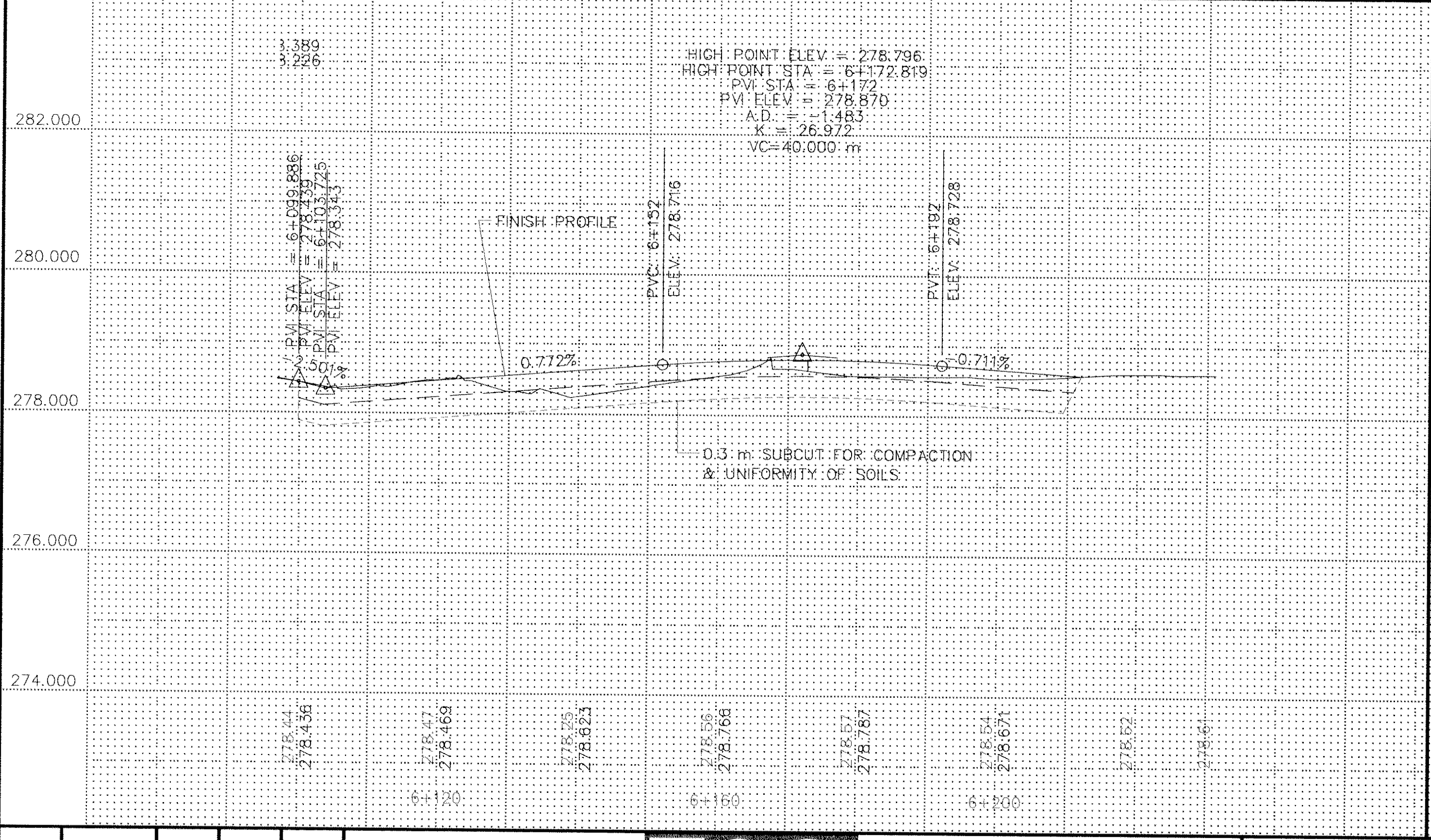
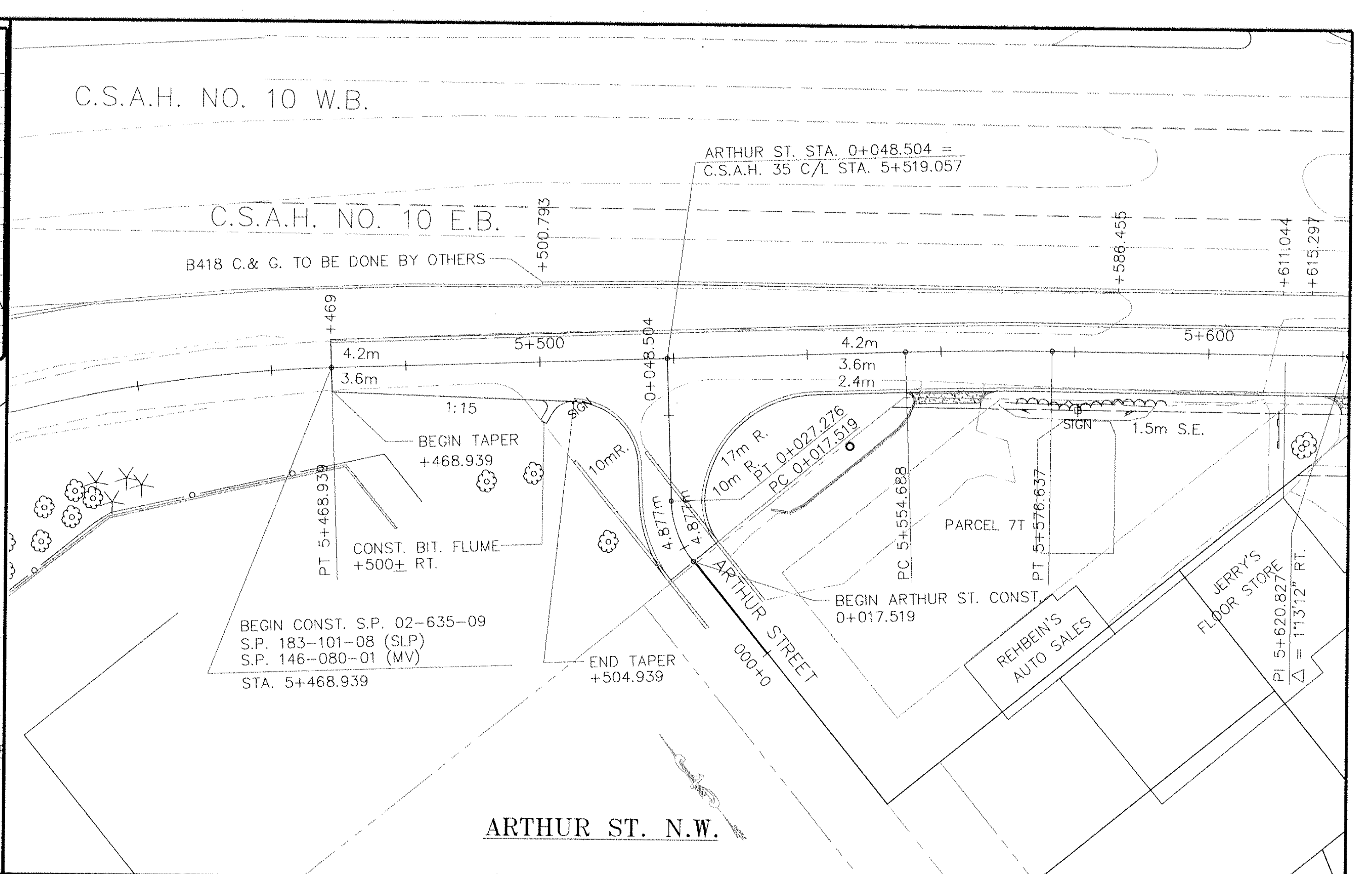
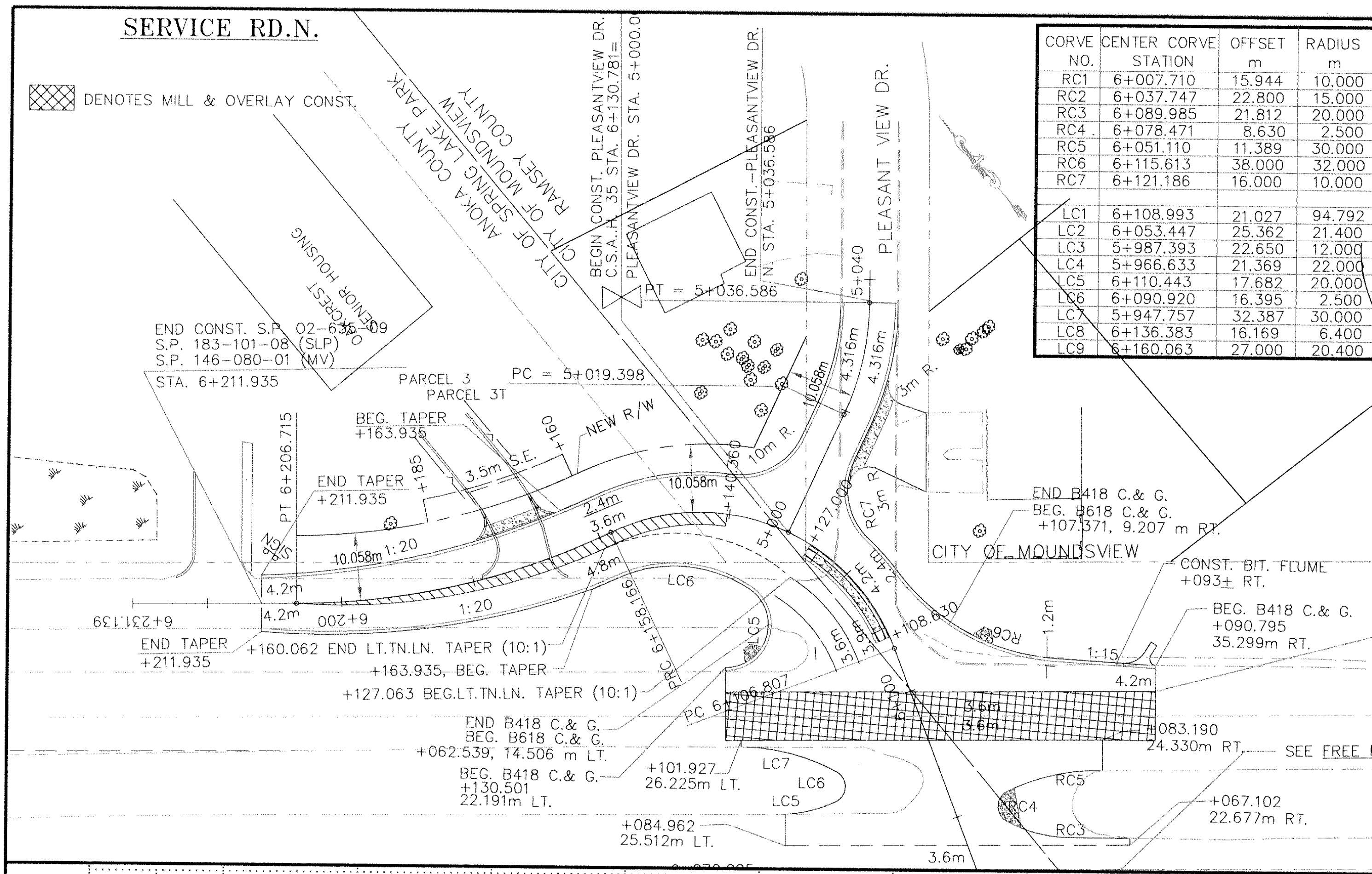
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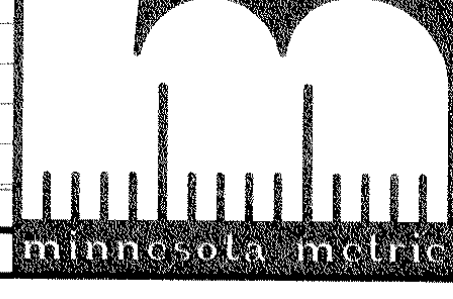


STATE PROJECT NO. 02-635-09
 STATE AID PROJECT NO. 183-101-08
 STATE AID PROJECT NO. 146-080-01
 COUNTY PROJECT NO. _____

PLAN & PROFILE
 STA 5+820.000 TO 6+080.000
 Sheet 21 of 64 Sheets



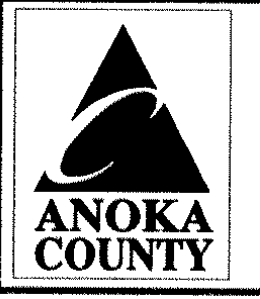
NO	DATE	BY	CKD	APPR	REVISION



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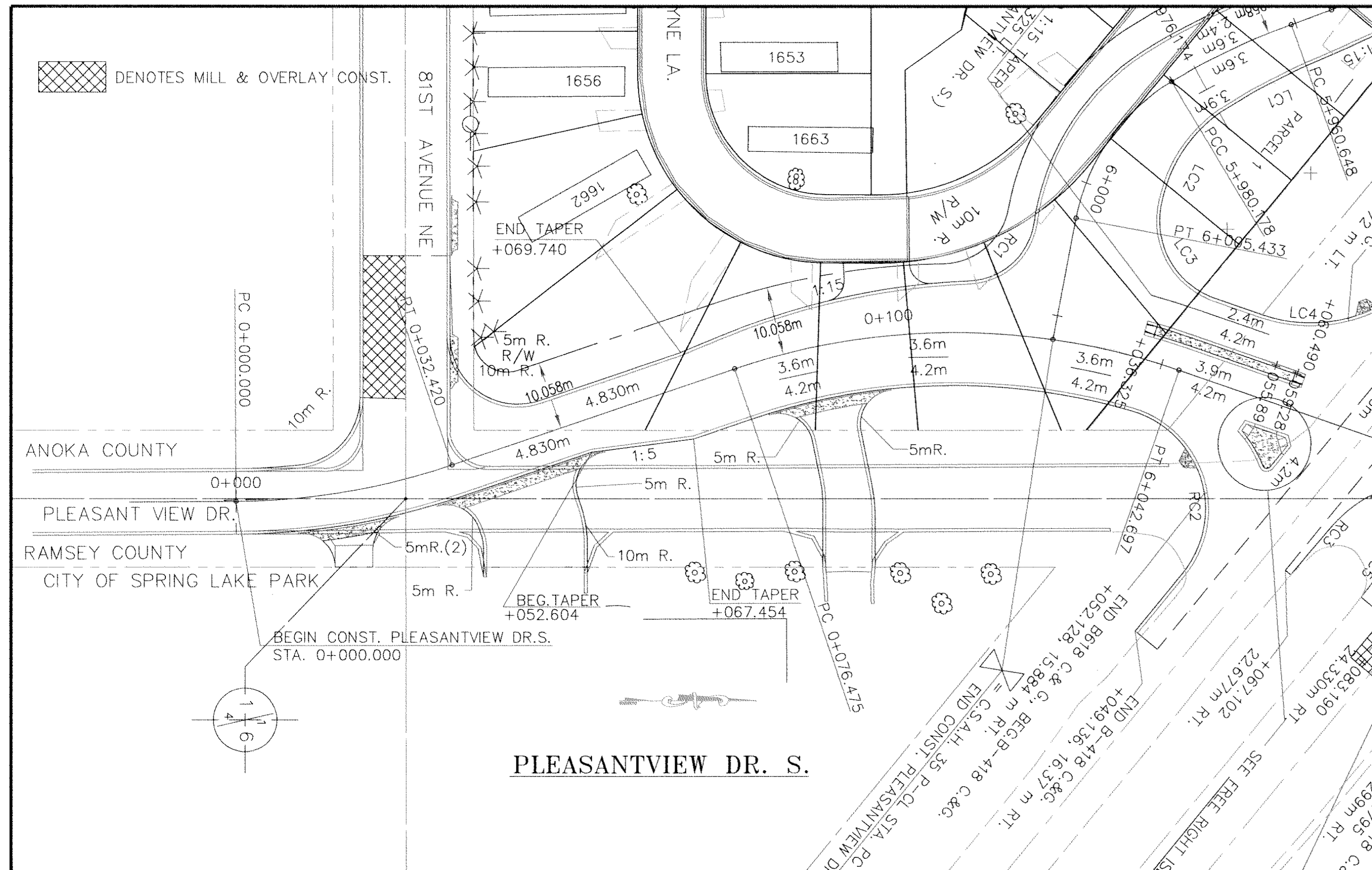
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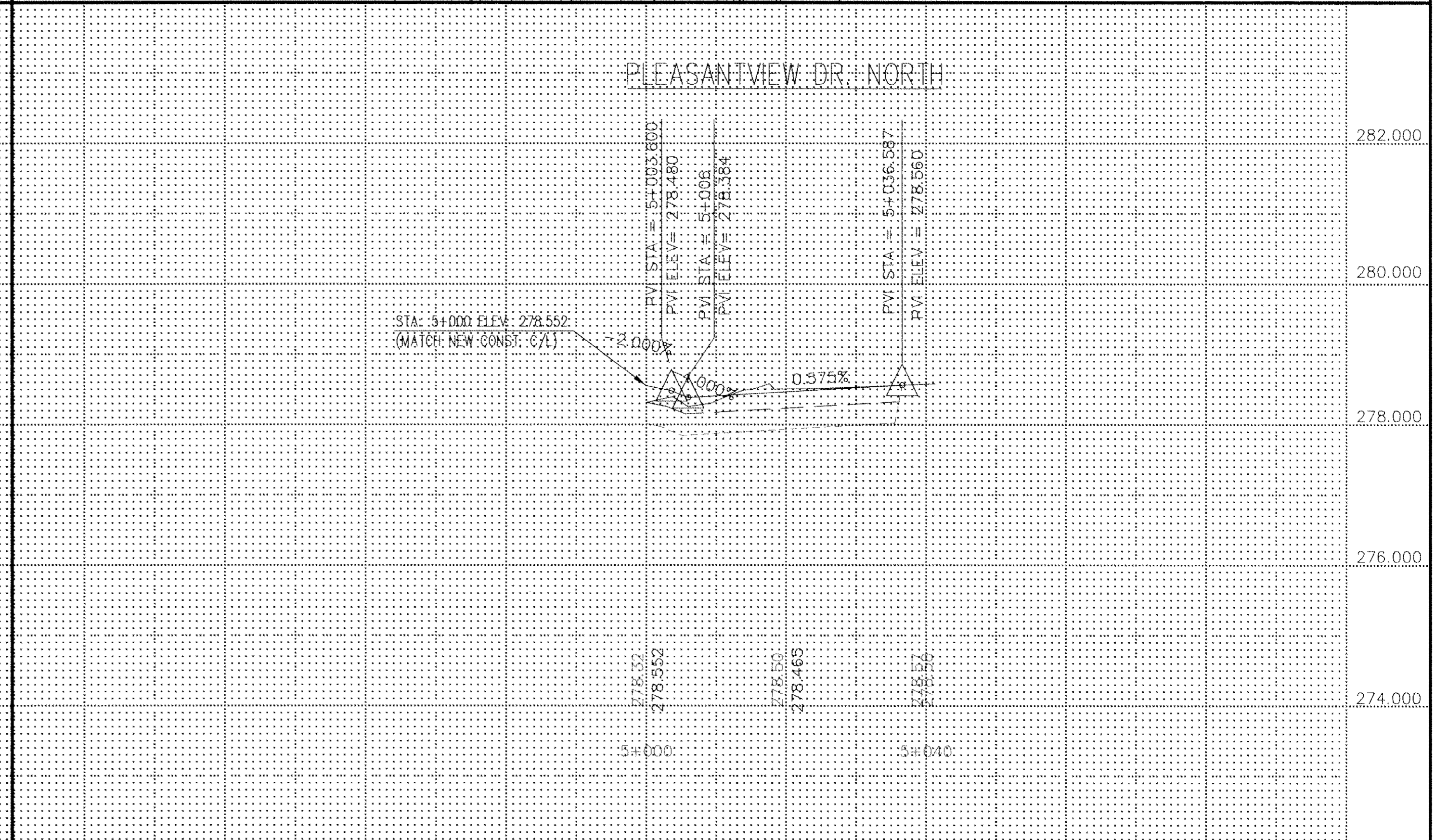
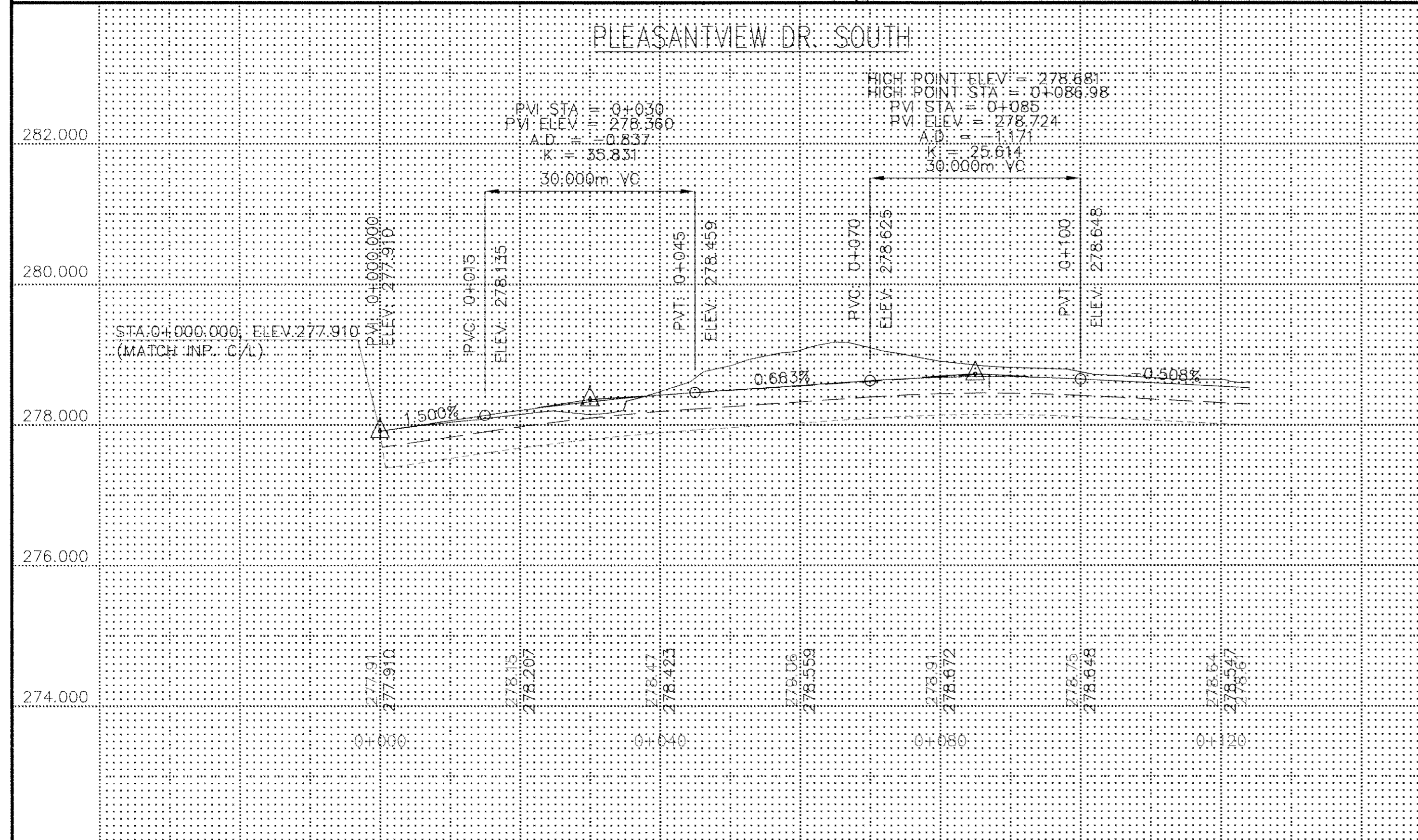
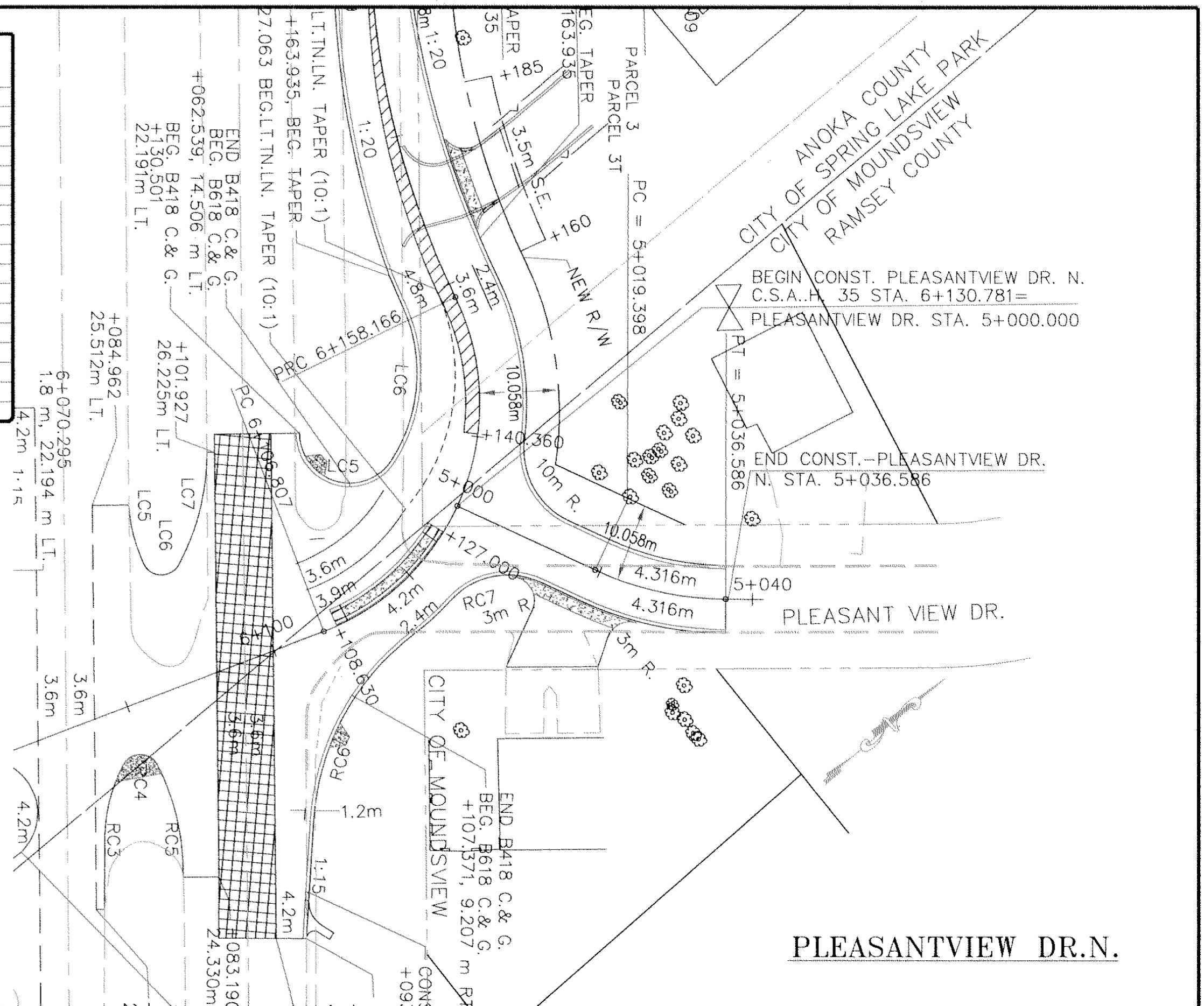
ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09
 STATE AID PROJECT NO. 183-101-08
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 COUNTY PROJECT NO. _____

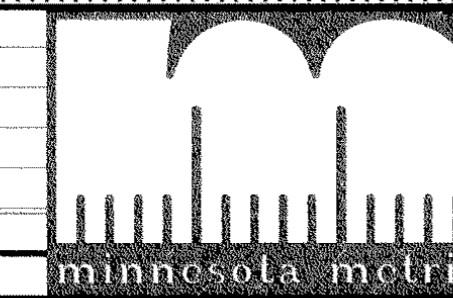
PLAN & PROFILE
ARTHUR ST. & SERVICE RD.N.
 Sheet 22 of 64 Sheets



CORVE NO.	CENTER CORVE STATION	OFFSET m	RADIUS m
RC1	6+007.710	15.944	10.000
RC2	6+037.747	22.800	15.000
RC3	6+089.985	21.812	20.000
RC4	6+078.471	8.630	2.500
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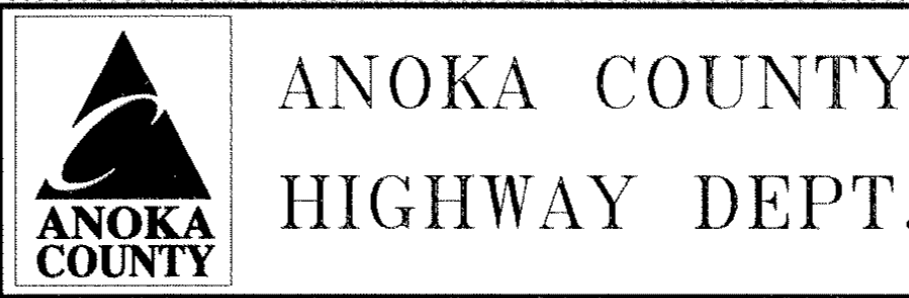
NO	DATE	BY	CKD	APPR	REVISION



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.

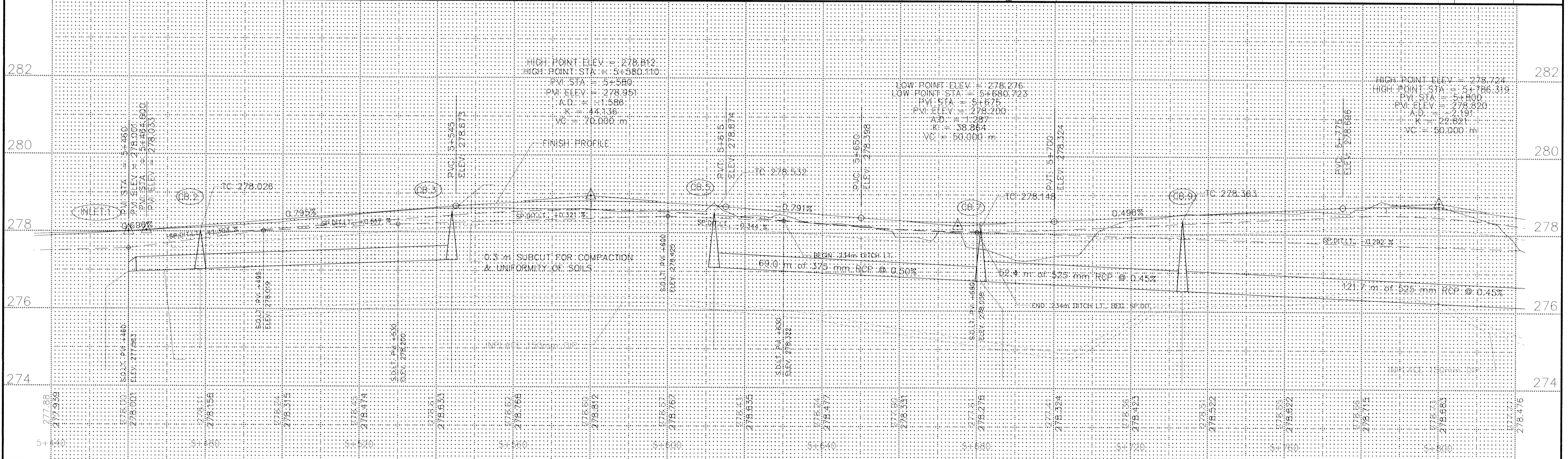
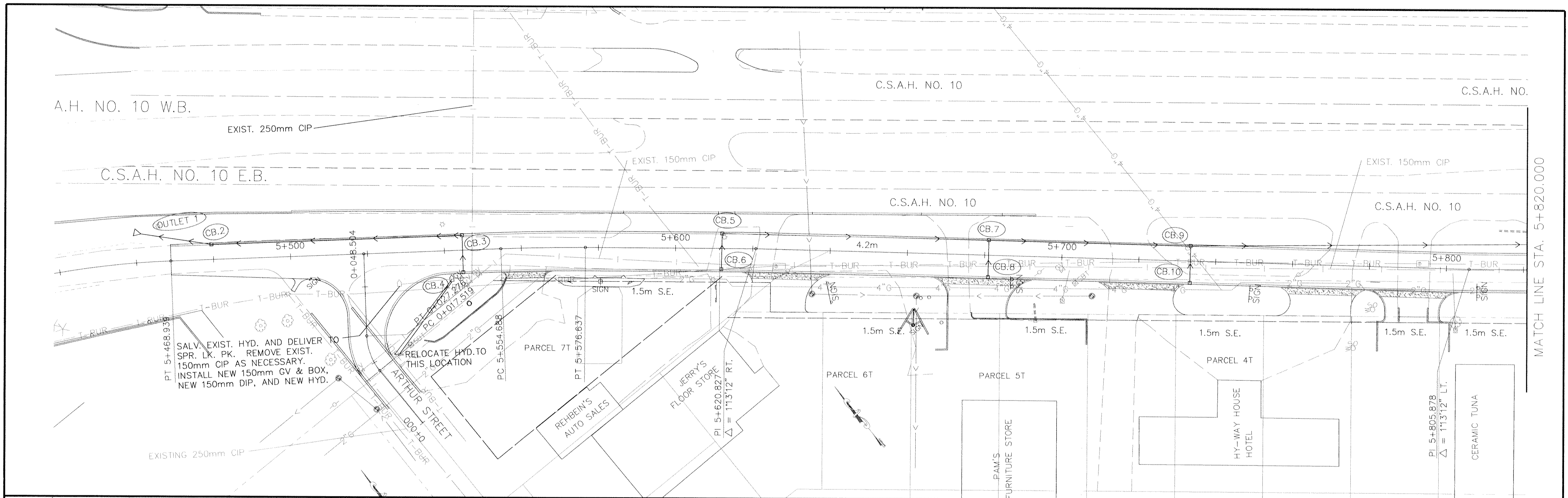
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 DESIGN BY: K.G.J. DATE: 00/00/01
 CHECKED BY: L.R. DATE: 00/00/01



STATE PROJECT NO. 02-635-09
 STATE AID PROJECT NO. 183-101-08
 STATE AID PROJECT NO. 146-080-01
 COUNTY PROJECT NO. _____

PLAN & PROFILE
 PLEASANTVIEW DR. NO. & SO.
 Sheet 23 of 64 Sheets



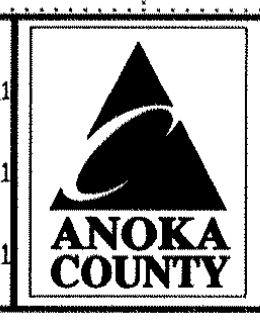
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1	3/12/02	KGJ			



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

DATE _____ REG. NO. _____

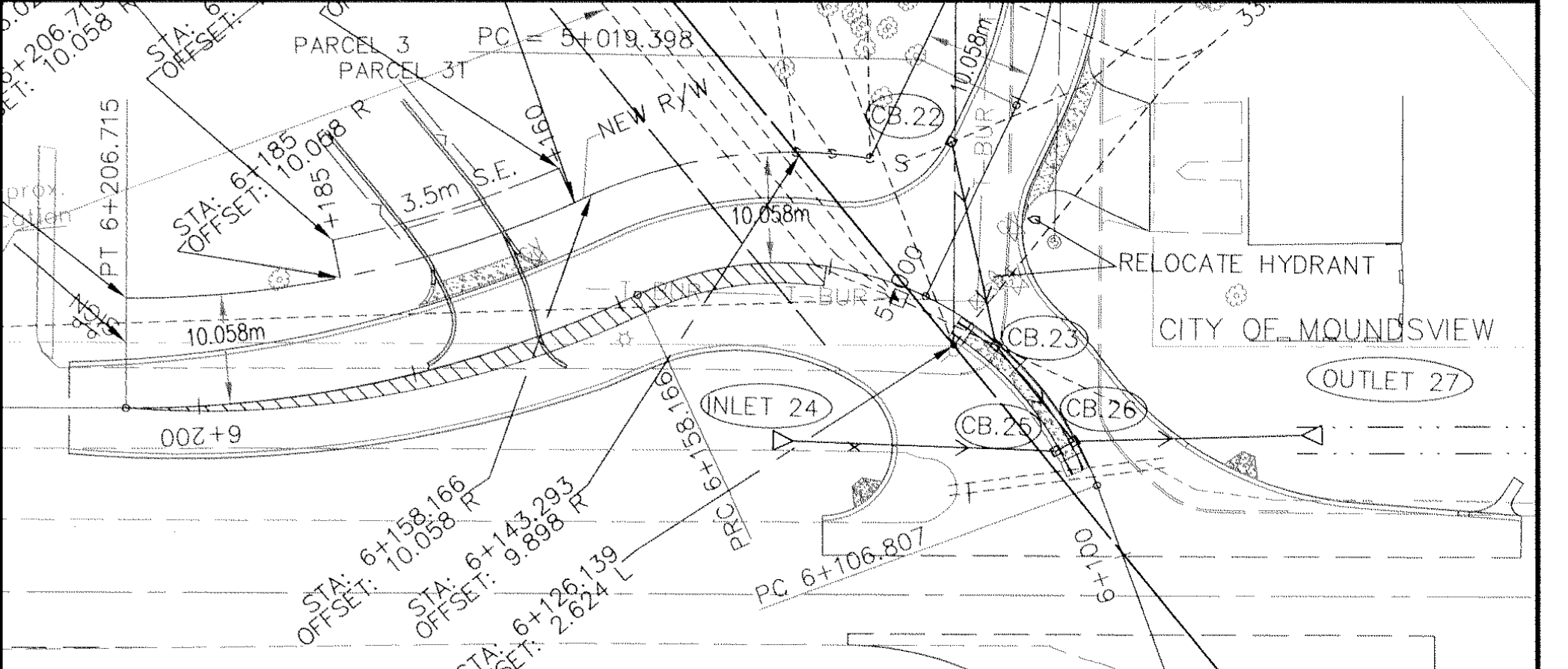
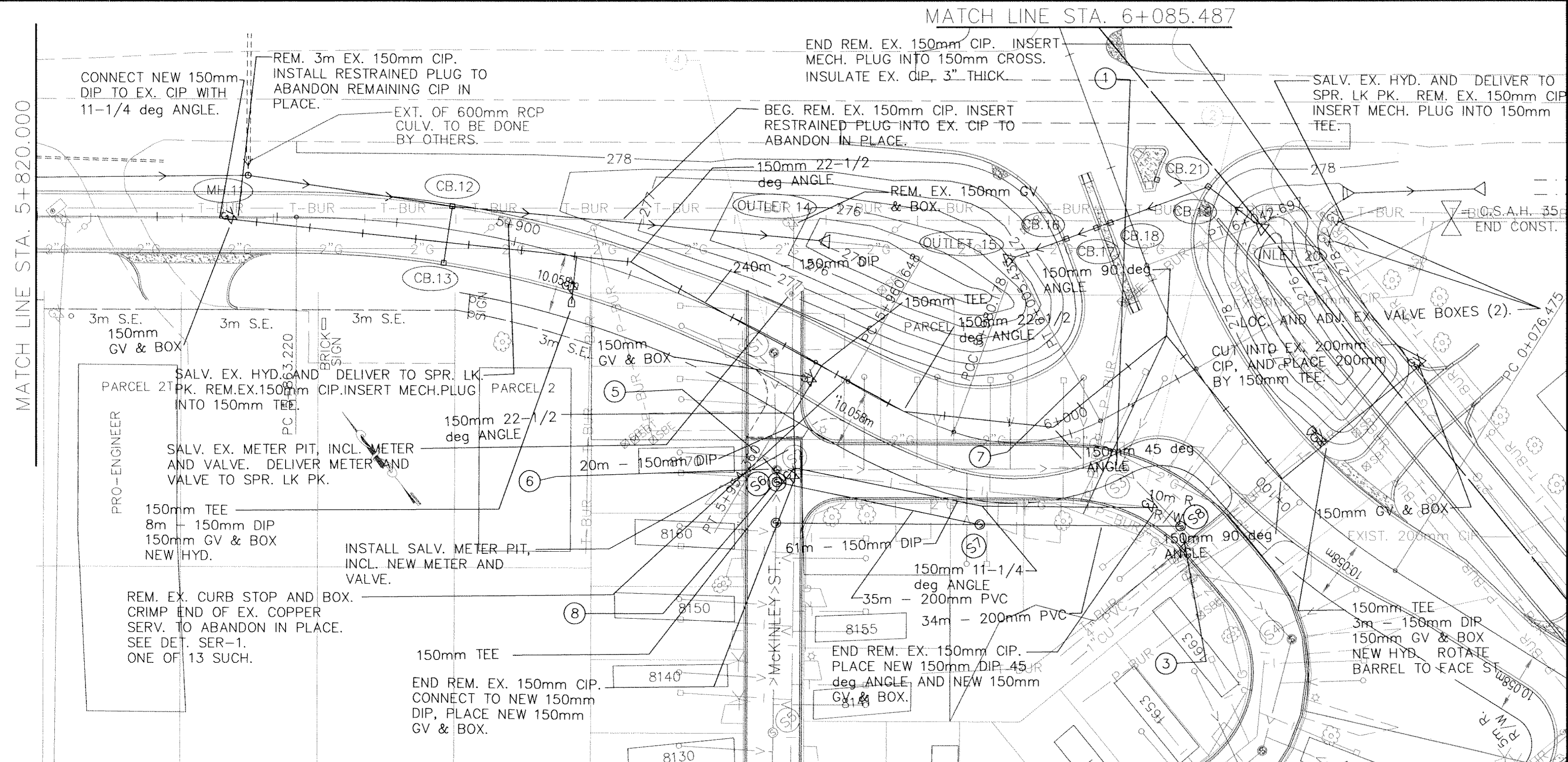
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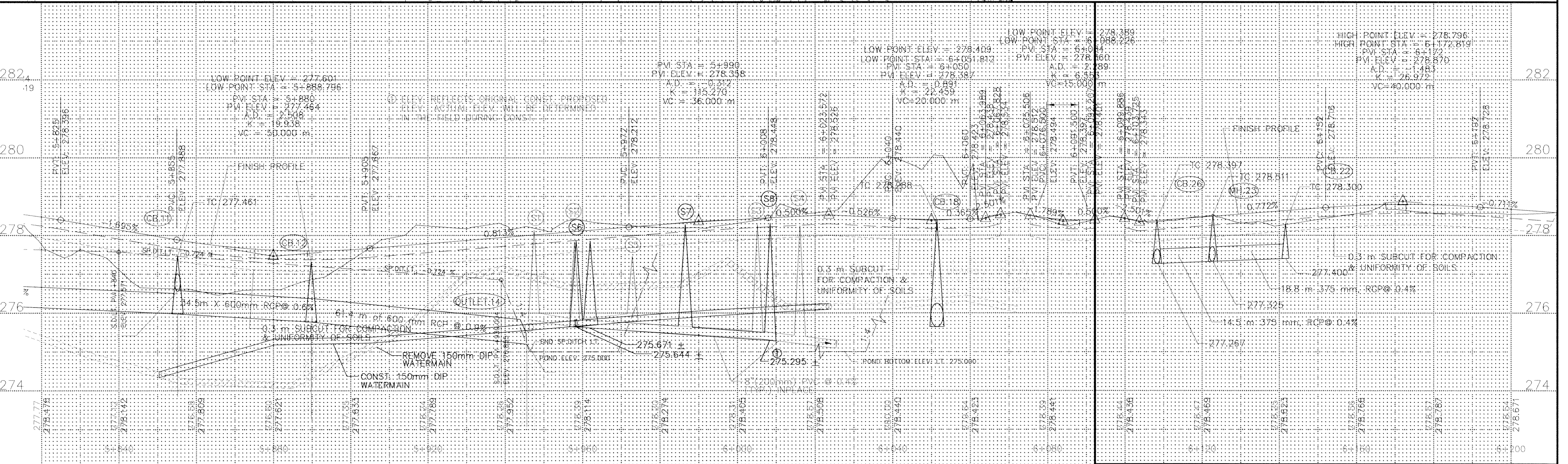
ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09
 STATE PROJECT NO. 183-101-08
 STATE PROJECT NO. 146-080-01
 COUNTY PROJECT NO. _____

DRAINAGE PLAN AND PROFILE
 STA 5+450.000 TO 5+820.000
 Sheet 24 of 64 Sheets



- SANITARY SEWER NOTES**
- ① BLOW EX. 200mm PVC FULL OF SILICA SAND TO ABANDON IN PLACE. INSTALL CAP ON END OF ABANDONED PVC.
 - ② REM. EX. MH S3 AND 14m - 200mm PVC.
 - ③ CONST. MH S8 OVER EX. 200mm PVC
 - ④ REM. EX. MH S1. INSTALL CAP ON END OF ABANDONED 200mm PVC.
 - ⑤ 200mm BY 100mm PVC SERVICE WYE. 6m - 100mm PVC 100mm - 45 deg PVC ANGLE. CONNECT TO EX. 100mm PVC SERV. LINE FROM 8170.
 - ⑥ REM. EX. MH S2. REM. 2m - 200mm PVC TO SOUTH. BLOW EX. 200mm PVC LINES TO NORTH AND EAST FULL OF SILICA SAND TO ABANDON IN PLACE. INSTALL CAPS ON END OF ABANDONED PVC LINES.
 - ⑦ REM. EX. 100mm PVC SAN. SEWER SERV., INCL. 90° BEND. INSERT 100mm GLUED CAP TO ABANDON REMAINING SERV. IN PLACE. SEE DET. SER-1. ONE OF 13 SUCH.
 - ⑧ CONST. MH S6 OVER EX. 200mm PVC
- WATER NOTE**
- NOTE: CONTRACTOR TO MAINTAIN TEMPORARY WATER SERV. TO PARCELS 2 AND 2T AS REQ'D. INCIDENTAL.



1	3/12/02	KGJ			
NO	DATE	BY	CKD	APPR	REVISION
NAME: P:\0263509\PLAN\24-25-STORM.DWG 04/24/2002 10:56:34 AM CDT					



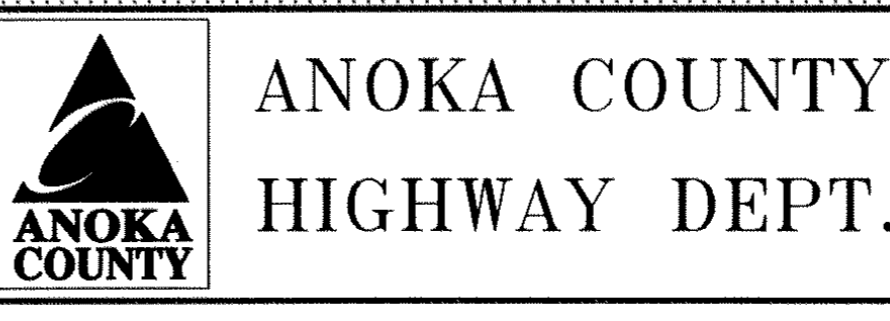
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE _____ REG. NO. _____

DRAWN BY: MH DATE: 08/24/01

DESIGN BY: KGJ DATE: 08/24/01

CHECKED BY: LR DATE: 08/24/01



STATE PROJECT NO. 02-635-09

STATE PROJECT NO. 183-101-08

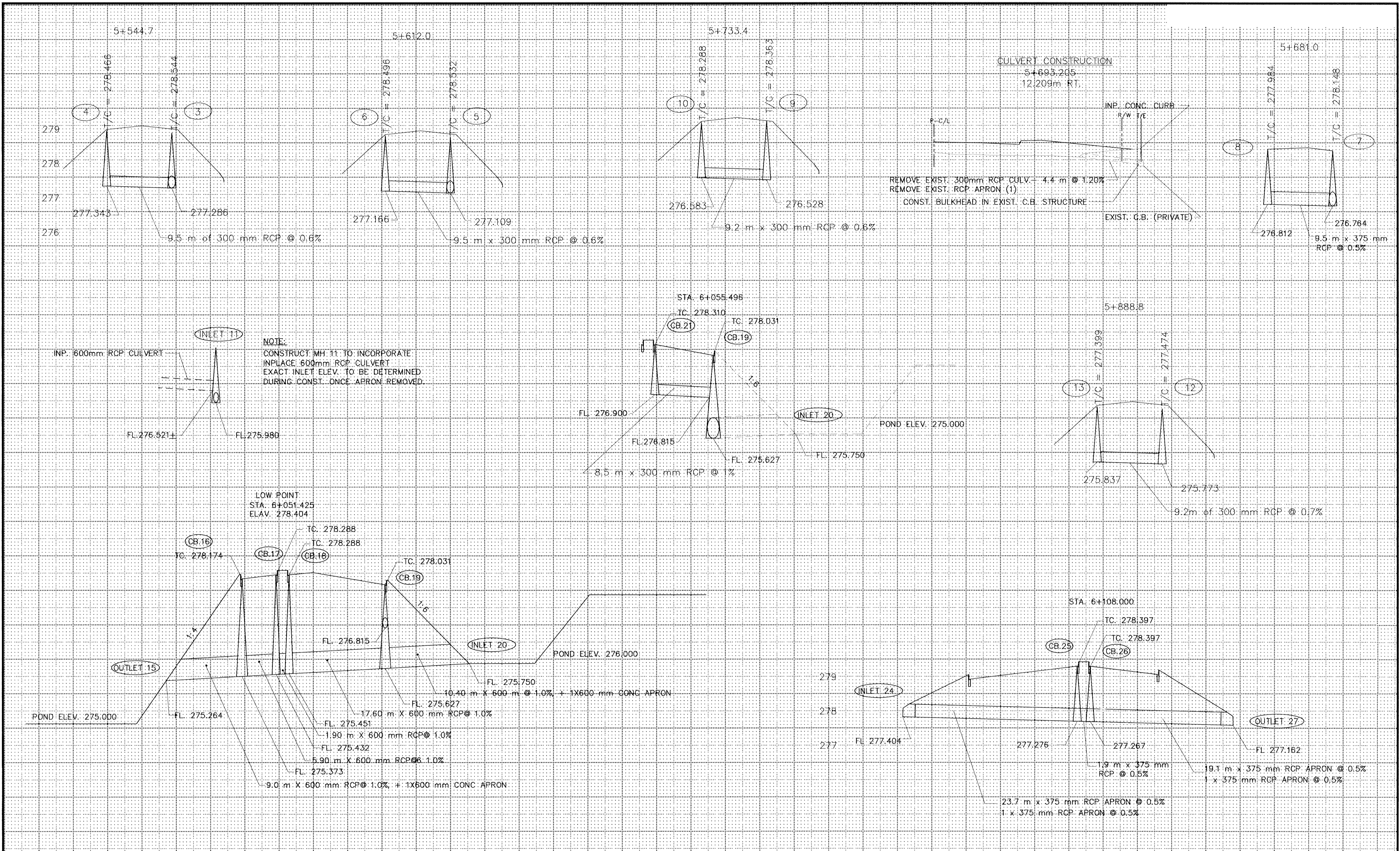
STATE PROJECT NO. 146-080-01

COUNTY PROJECT NO. _____

DRAINAGE PLAN AND PROFILE

STA 5+450.000 TO 5+820.000

Sheet 25 of 64 Sheets



NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\0263509\PLAN\26-Storm Leads.dwg 04/24/2002 11:36:37 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.

DATE _____ REG. NO. _____

DRAWN BY: KLO DATE: 8/01
 DESIGN BY: KLO DATE: 8/01
 CHECKED BY: LAR DATE: 8/01

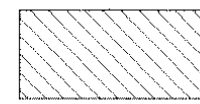
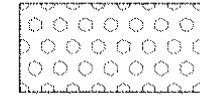
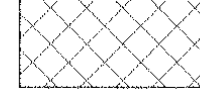
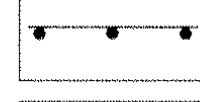


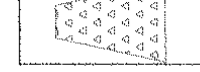


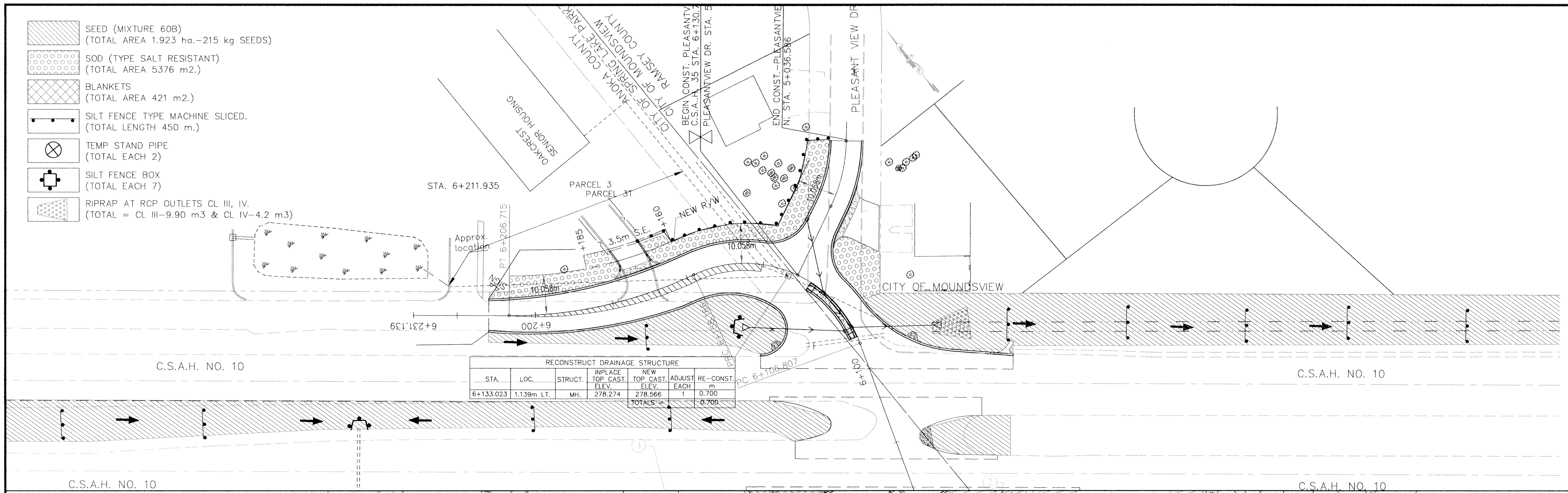
ANOKA COUNTY HIGHWAY DEPT.

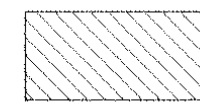
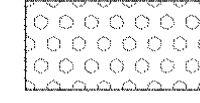
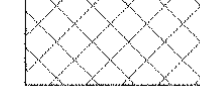
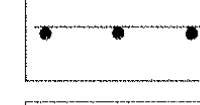



STATE PROJECT NO. 02-635-09
 STATE PROJECT NO. 183-101-08
 STATE PROJECT NO. 146-080-01
 COUNTY PROJECT NO. _____

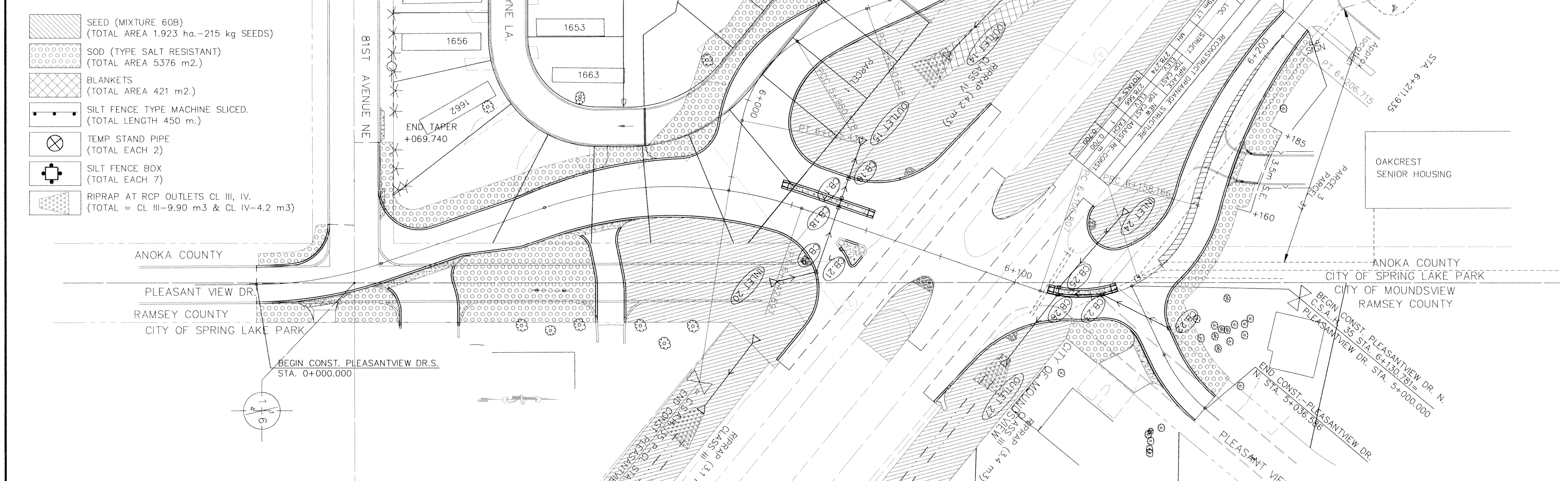
STORM SEWER LEADS

Sheet 26 of 64 Sheets

-  SEED (MIXTURE 60B)
(TOTAL AREA 1.923 ha.-215 kg SEEDS)
-  SOD (TYPE SALT RESISTANT)
(TOTAL AREA 5376 m2.)
-  BLANKETS
(TOTAL AREA 421 m2.)
-  SILT FENCE TYPE MACHINE SLICED.
(TOTAL LENGTH 450 m.)
-  TEMP STAND PIPE
(TOTAL EACH 2)
-  SILT FENCE BOX
(TOTAL EACH 7)
-  RIPRAP AT RCP OUTLETS CL III, IV.
(TOTAL = CL III-9.90 m3 & CL IV-4.2 m3)



-  SEED (MIXTURE 60B)
(TOTAL AREA 1.923 ha.-215 kg SEEDS)
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(TOTAL EACH 7)
-  RIPRAP AT RCP OUTLETS CL III, IV.
(TOTAL = CL III-9.90 m3 & CL IV-4.2 m3)



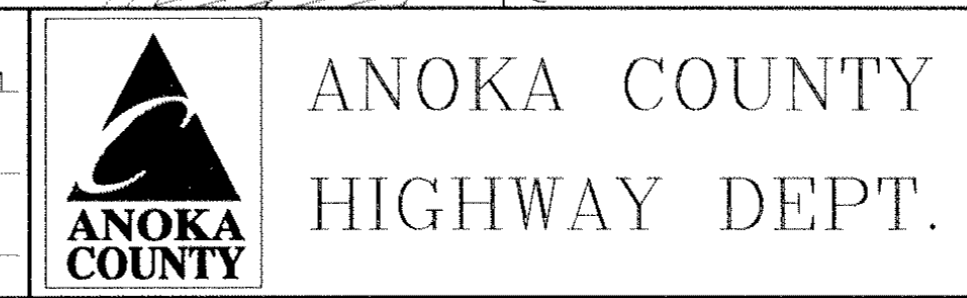
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I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

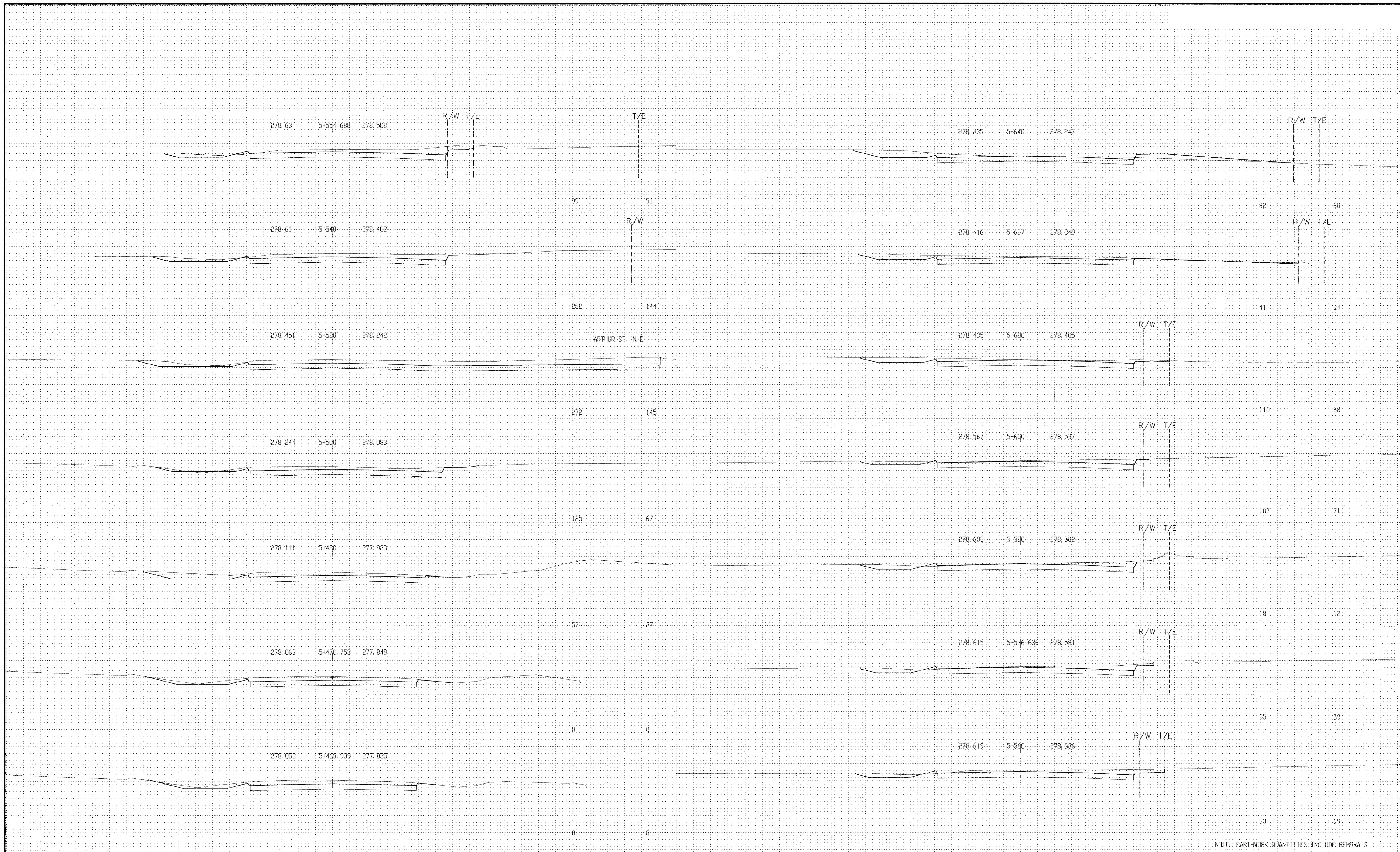
PRINT NAME: _____
 SIGNATURE: _____
 DATE: _____ LICENSE NO. _____

DRAWN BY: MN DATE 08-22-01
 DESIGN BY: KJ DATE 08-22-01
 CHECKED BY: LR DATE 08-22-01



STATE PROJECT NO. 02-635-09
 STATE PROJECT NO. 183-101-08
 STATE PROJECT NO. 146-080-01
 COUNTY PROJECT NO. _____

TURF ESTABLISHMENT &
 EROSION CONTROL PLAN
 SERVICE ROAD & PLEASANT VIEW DR.
 Sheet 28 of 64 Sheets



NOTE: EARTHWORK QUANTITIES INCLUDE REMOVALS.

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.

DATE _____ REG. NO. _____

DRAWN BY KGJ DATE 9/21/01

DESIGN BY KGJ DATE 9/21/01

CHECKED BY _____ DATE _____



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09

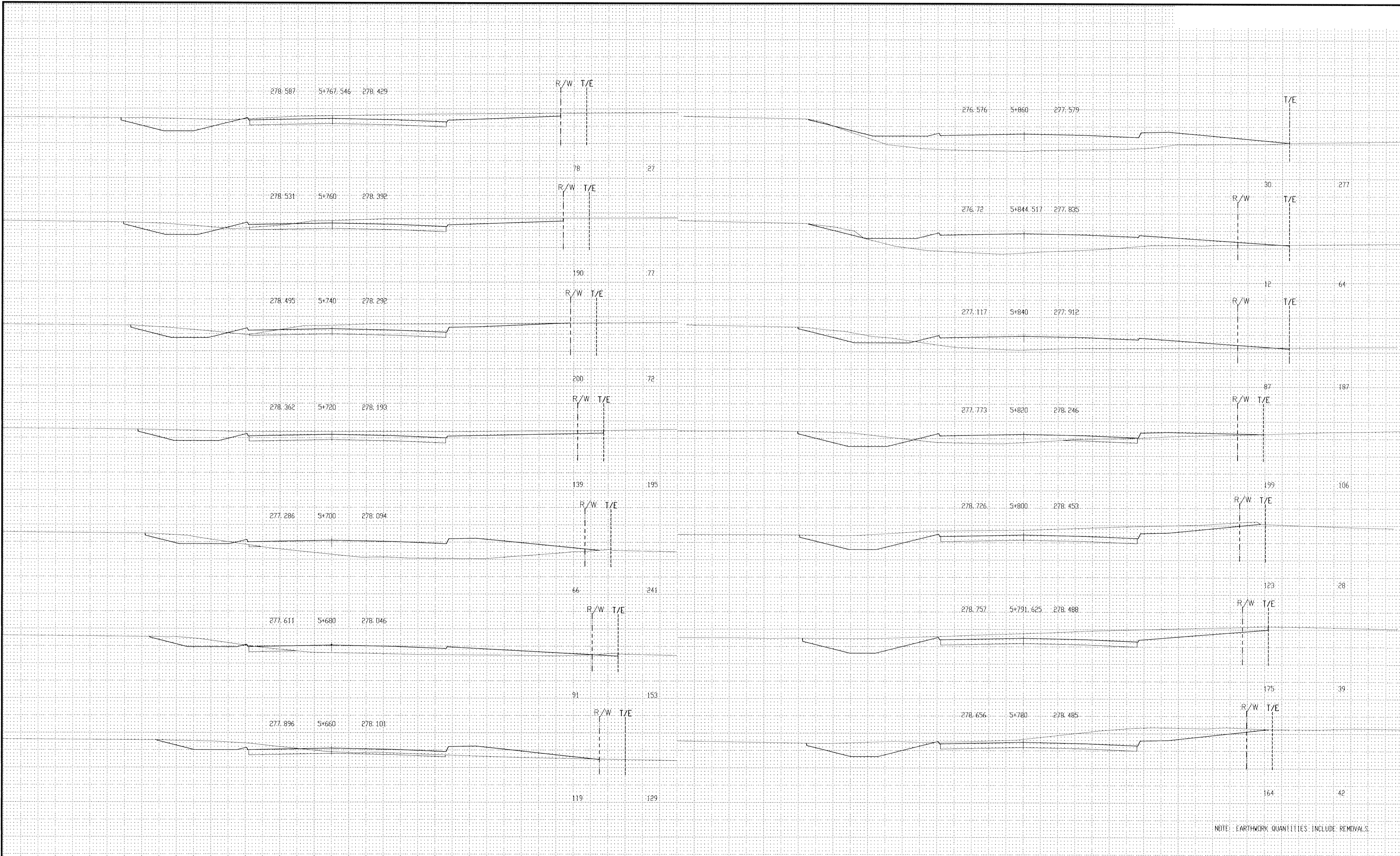
STATE PROJECT NO. 183-101-08

STATE PROJECT NO. 146-080-01

COUNTY PROJECT NO. _____

CROSS- SECTION
STA 5+468.939 TO 5+640.000

Sheet 29 of 64 Sheets



NOTE: EARTHWORK QUANTITIES INCLUDE REMOVALS

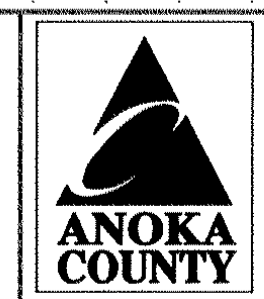
NO	DATE	BY	CKD	APPR	REVISION



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.

DATE _____ REG. NO. _____

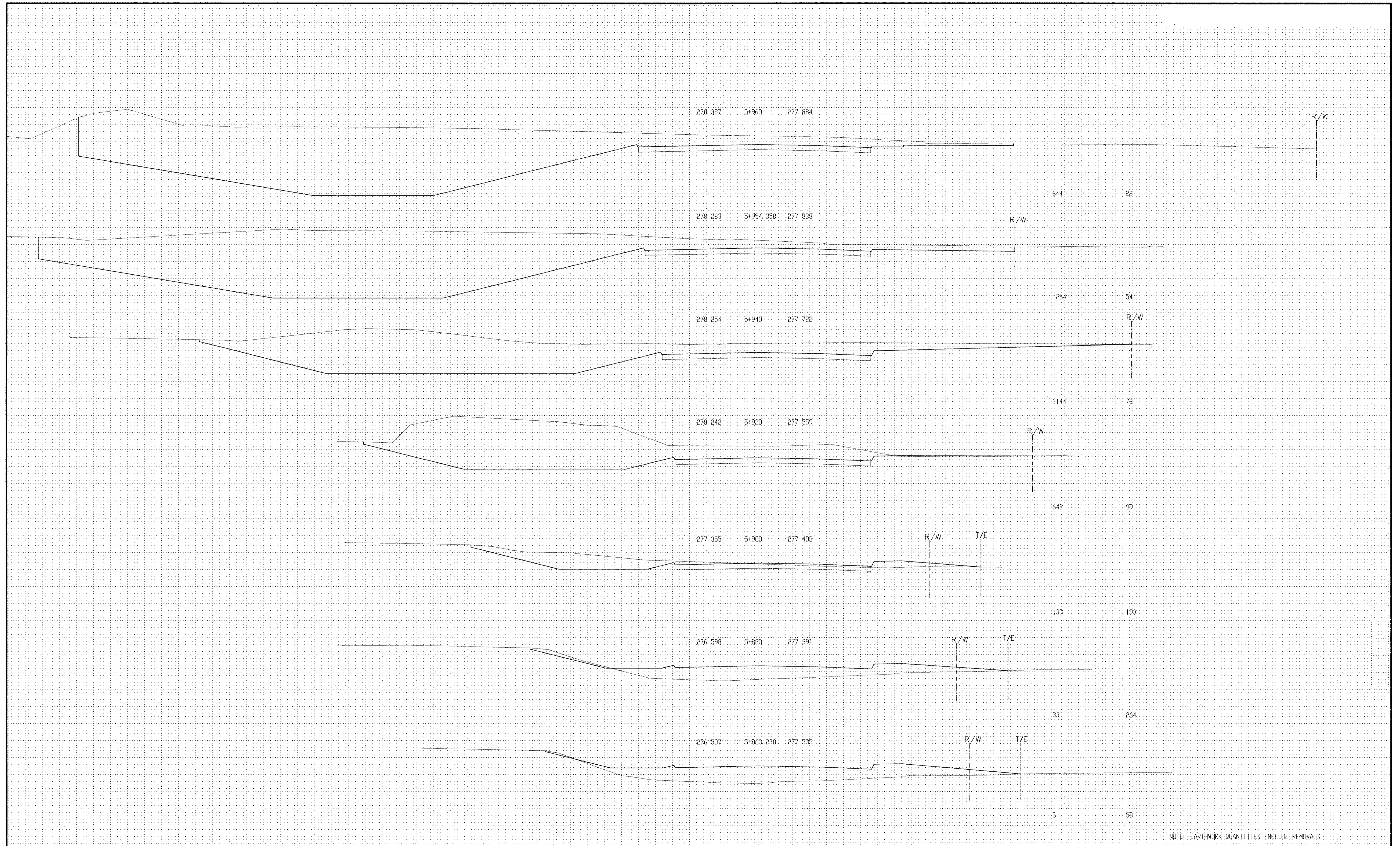
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 CHECKED BY: _____ DATE: _____



ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09
 STATE PROJECT NO. 183-101-08
 STATE PROJECT NO. 146-080-01
 COUNTY PROJECT NO. _____

CROSS-SECTION
 STA 5+660.000 TO 5+860.000
 Sheet 30 of 64 Sheets



NO	DATE	BY	CKD	APPR	REVISION



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

DATE _____ REG. NO. _____

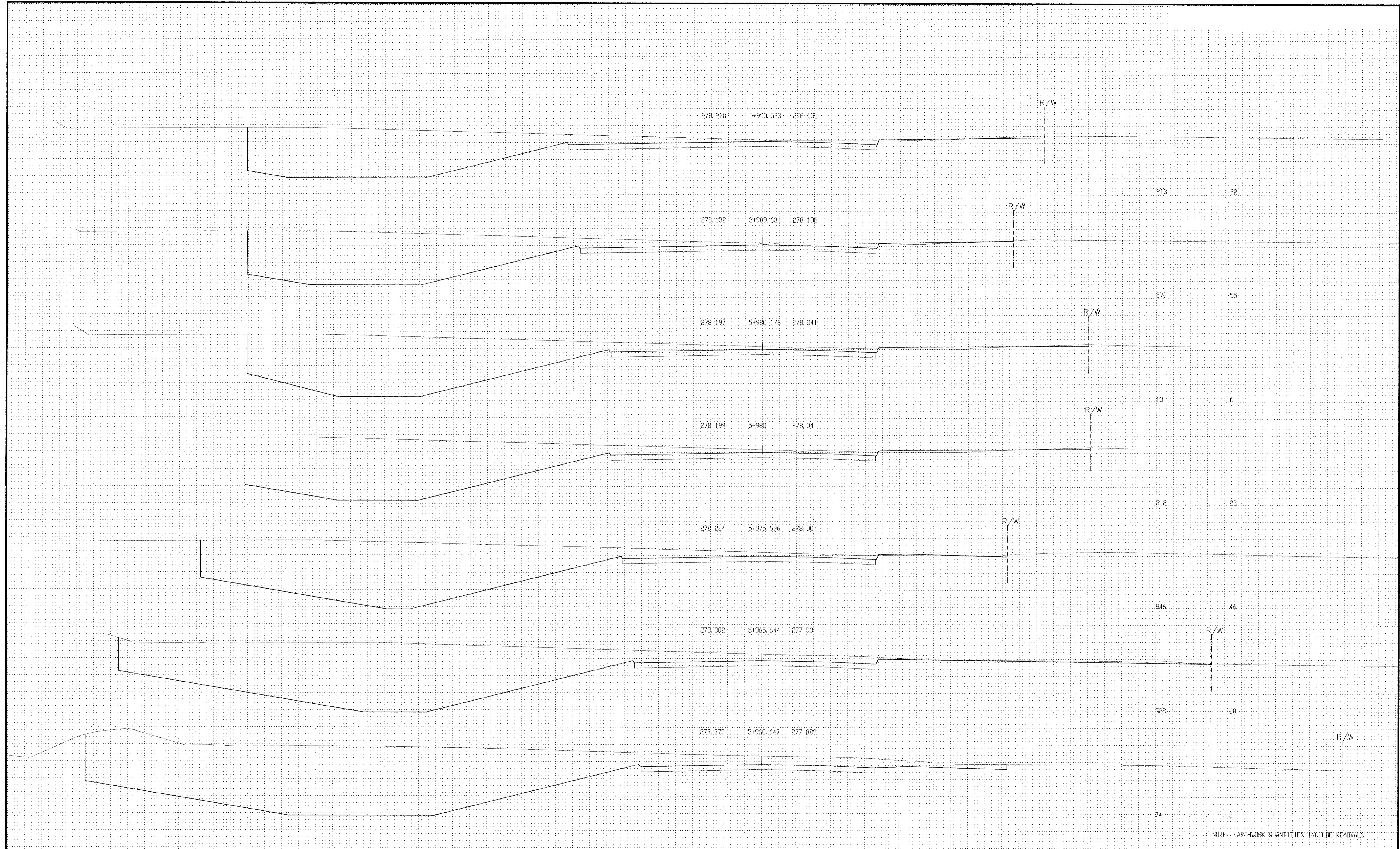
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 DESIGN BY KGJ DATE 9/21/01
 CHECKED BY _____ DATE _____



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09
 STATE PROJECT NO. 183-101-08
 STATE PROJECT NO. 146-080-01
 COUNTY PROJECT NO. _____

CROSS- SECTION
 STA 5+863.220 TO 5+960.000
 Sheet 31 of 64 Sheets



NOTE: EARTHWORK QUANTITIES INCLUDE REMOVALS.

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.

DATE _____ REG. NO. _____

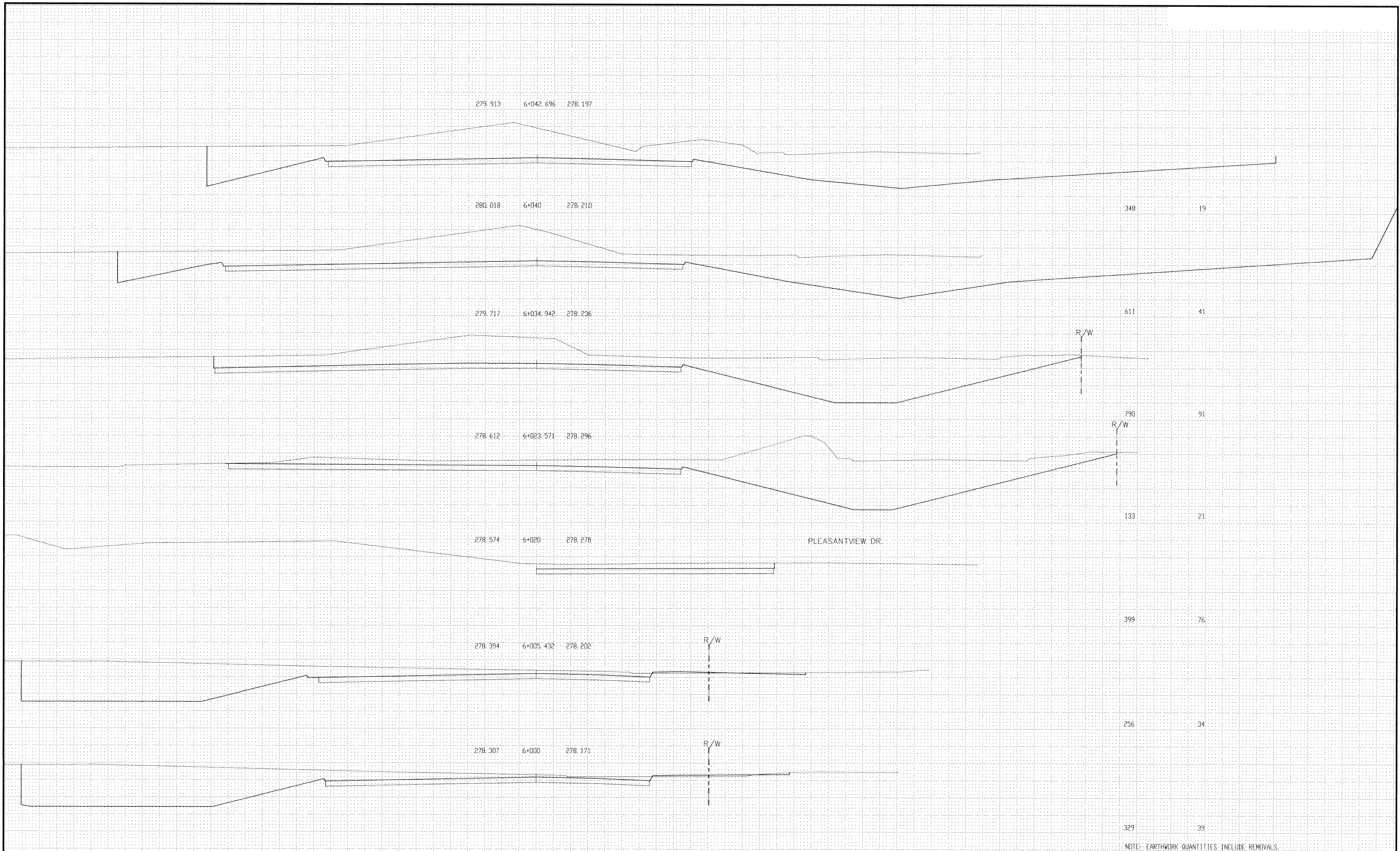
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 DESIGN BY KGJ DATE 9/21/01
 CHECKED BY _____ DATE _____



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09
 STATE PROJECT NO. 183-101-08
 STATE PROJECT NO. 146-080-01
 COUNTY PROJECT NO. _____

CROSS- SECTION
 STA 5+960.647 TO 5+993.523
 Sheet 32 of 64 Sheets



NOTE: EARTHWORK QUANTITIES INCLUDE REMOVALS.

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.

DATE _____ REG. NO. _____

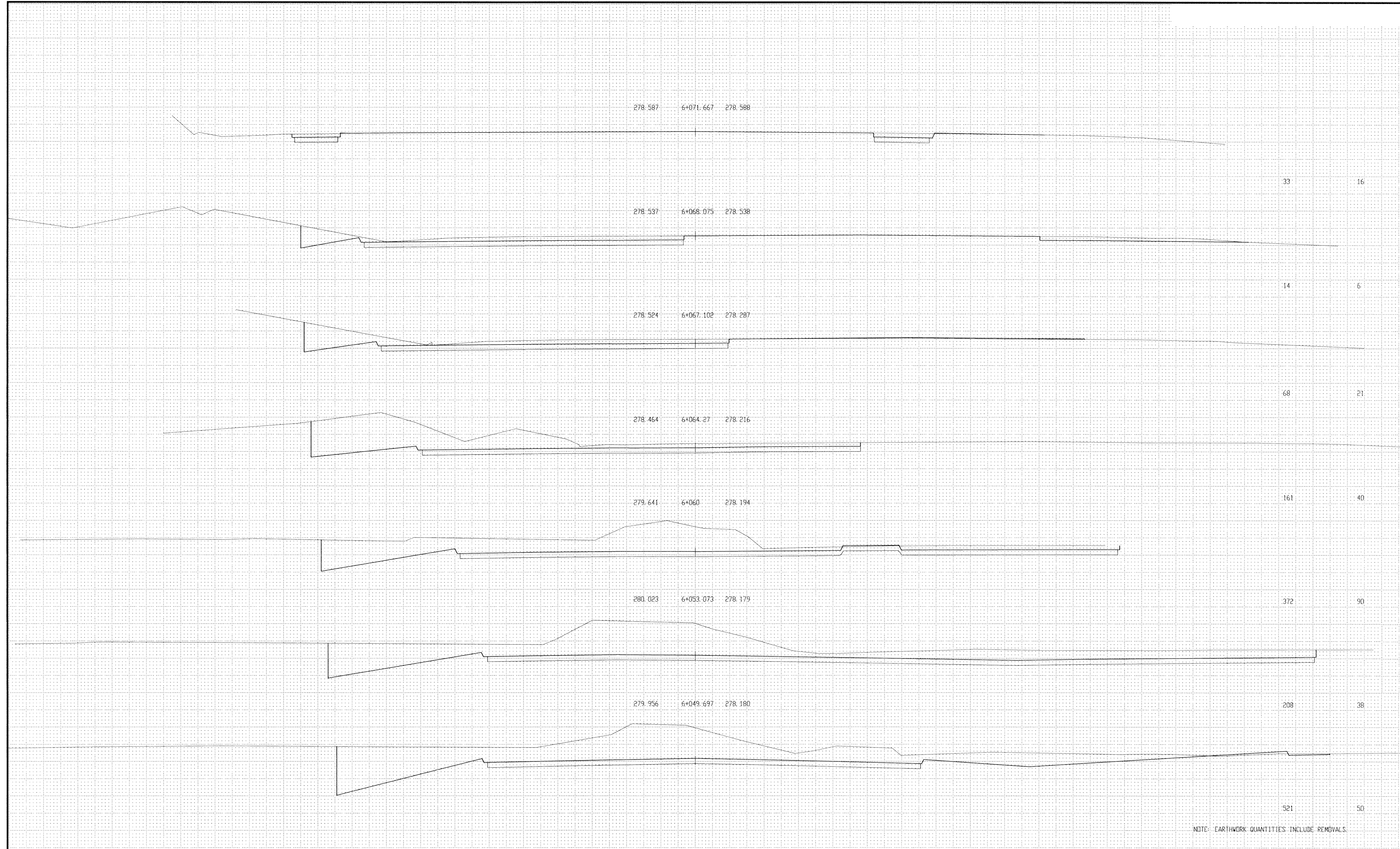
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 CHECKED BY _____ DATE _____



ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09
 STATE PROJECT NO. 183-101-08
 STATE PROJECT NO. 146-080-01
 COUNTY PROJECT NO. _____

CROSS- SECTION
 STA 6+000.000 TO 6+042.696
 Sheet 33 of 64 Sheets



NOTE: EARTHWORK QUANTITIES INCLUDE REMOVALS.

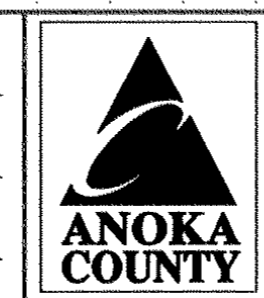
NO	DATE	BY	CKD	APPR	REVISION



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.

DATE _____ REG. NO. _____

DRAWN BY KGJ DATE 9/21/01
 DESIGN BY KGJ DATE 9/21/01
 CHECKED BY _____ DATE _____



**ANOKA COUNTY
HIGHWAY DEPT.**

STATE PROJECT NO. 02-635-09
 STATE PROJECT NO. 183-101-08
 STATE PROJECT NO. 146-080-01
 COUNTY PROJECT NO. _____

CROSS- SECTION
 STA 6+049.697 TO 6+071.667
 Sheet 34 of 64 Sheets

278.336 6+089.325 278.161

278.287 6+087.385 278.161

278.239 6+084.962 278.169

278.282 6+083.19 278.18

278.391 6+080 278.212

278.427 6+078.898 278.227

278.487 6+076.589 278.264

33 22

44 30

36 23

68 42

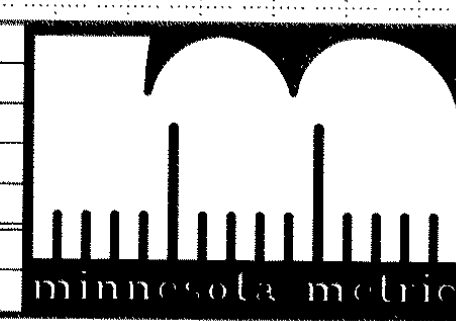
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NOTE: EARTHWORK QUANTITIES INCLUDE REMOVALS.

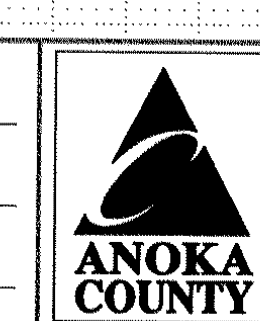
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I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE _____ REG. NO. _____

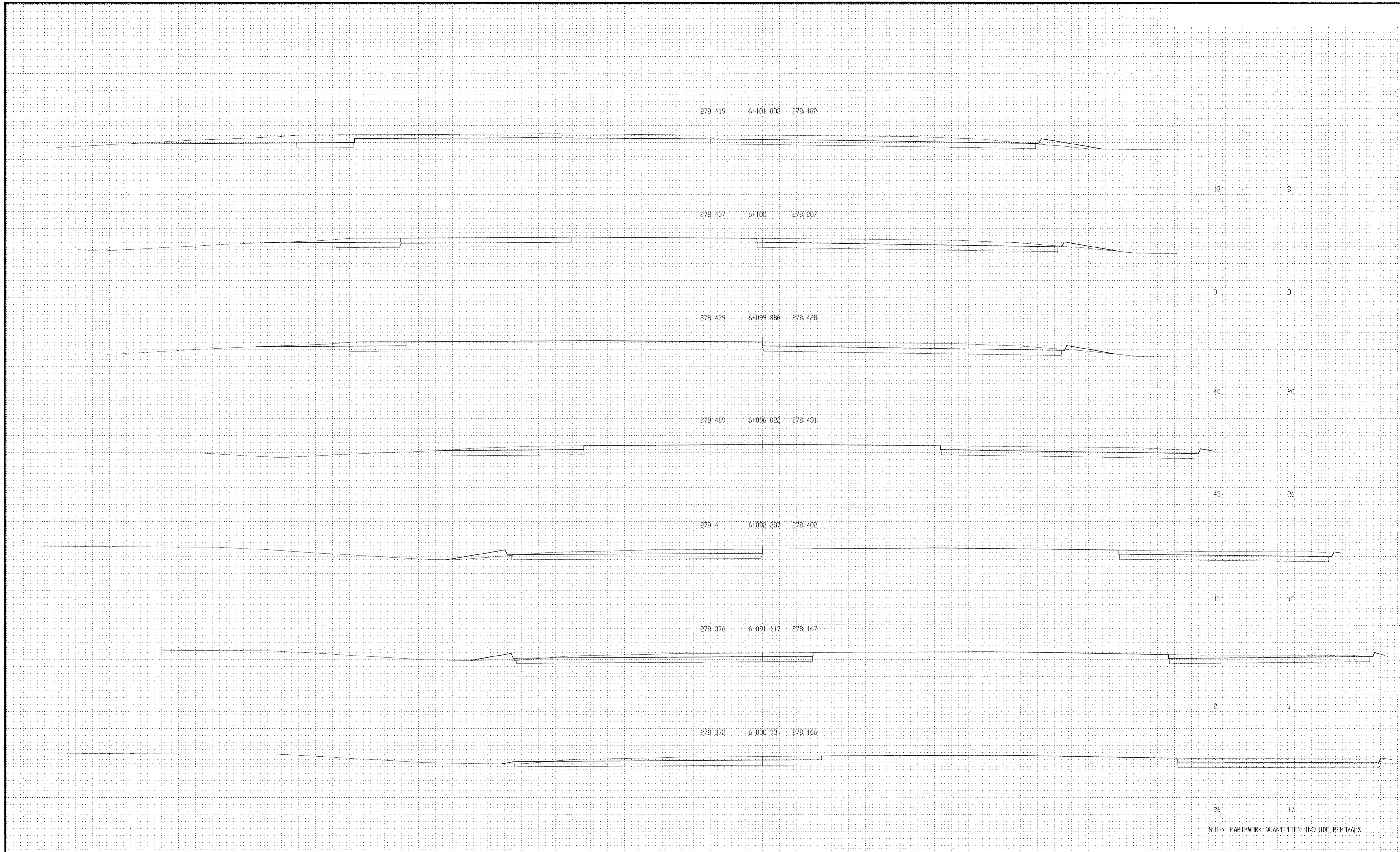
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 DESIGN BY KGJ DATE 9/21/01
 CHECKED BY _____ DATE _____



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09
 STATE PROJECT NO. 183-101-08
 STATE PROJECT NO. 146-080-01
 COUNTY PROJECT NO. _____

CROSS- SECTION
 STA 6+076.589 TO 6+089.325
 Sheet 35 of 64 Sheets



NO	DATE	BY	CKD	APPR	REVISION



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

DATE _____ REG. NO. _____

DRAWN BY: KGJ DATE: 9/21/01
 DESIGN BY: KGJ DATE: 9/21/01
 CHECKED BY: _____ DATE: _____



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09
 STATE PROJECT NO. 183-101-08
 STATE PROJECT NO. 146-080-01
 COUNTY PROJECT NO. _____

CROSS- SECTION
 STA 6+090.930 TO 6+101.002
 Sheet 36 of 64 Sheets

278.316 6+130.781 278.323

PLEASANTVIEW DR.

114 88

278.493 6+121.145 278.249

R/W

13 10

278.474 6+120 278.24

R/W

167 129

278.336 6+106.807 278.138

R/W

36 23

278.36 6+104.135 278.117

4 2

278.369 6+103.725 278.114

24 14

278.402 6+101.927 278.155

15 6

NOTE: EARTHWORK QUANTITIES INCLUDE REMOVALS.

NO	DATE	BY	CKD	APPR	REVISION



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DATE _____ REG. NO. _____

DRAWN BY KGJ DATE 9/21/01

DESIGN BY KGJ DATE 9/21/01

CHECKED BY _____ DATE _____



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09

STATE PROJECT NO. 183-101-08

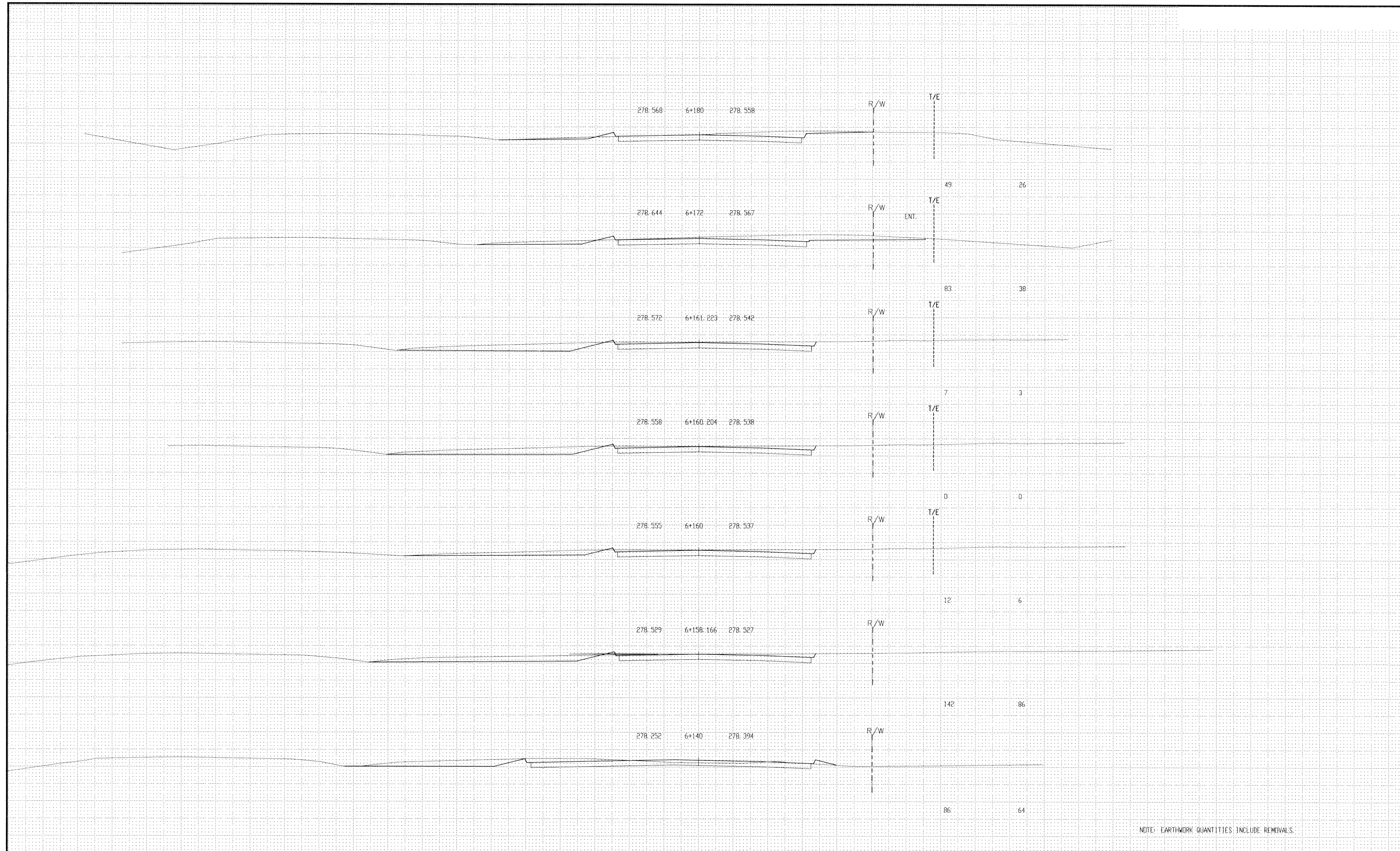
STATE PROJECT NO. 146-080-01

COUNTY PROJECT NO. _____

CROSS- SECTION

STA 6+101.927 TO 6+130.781

Sheet 37 of 64 Sheets



NOTE: EARTHWORK QUANTITIES INCLUDE REMOVALS.

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.

DATE _____ REG. NO. _____

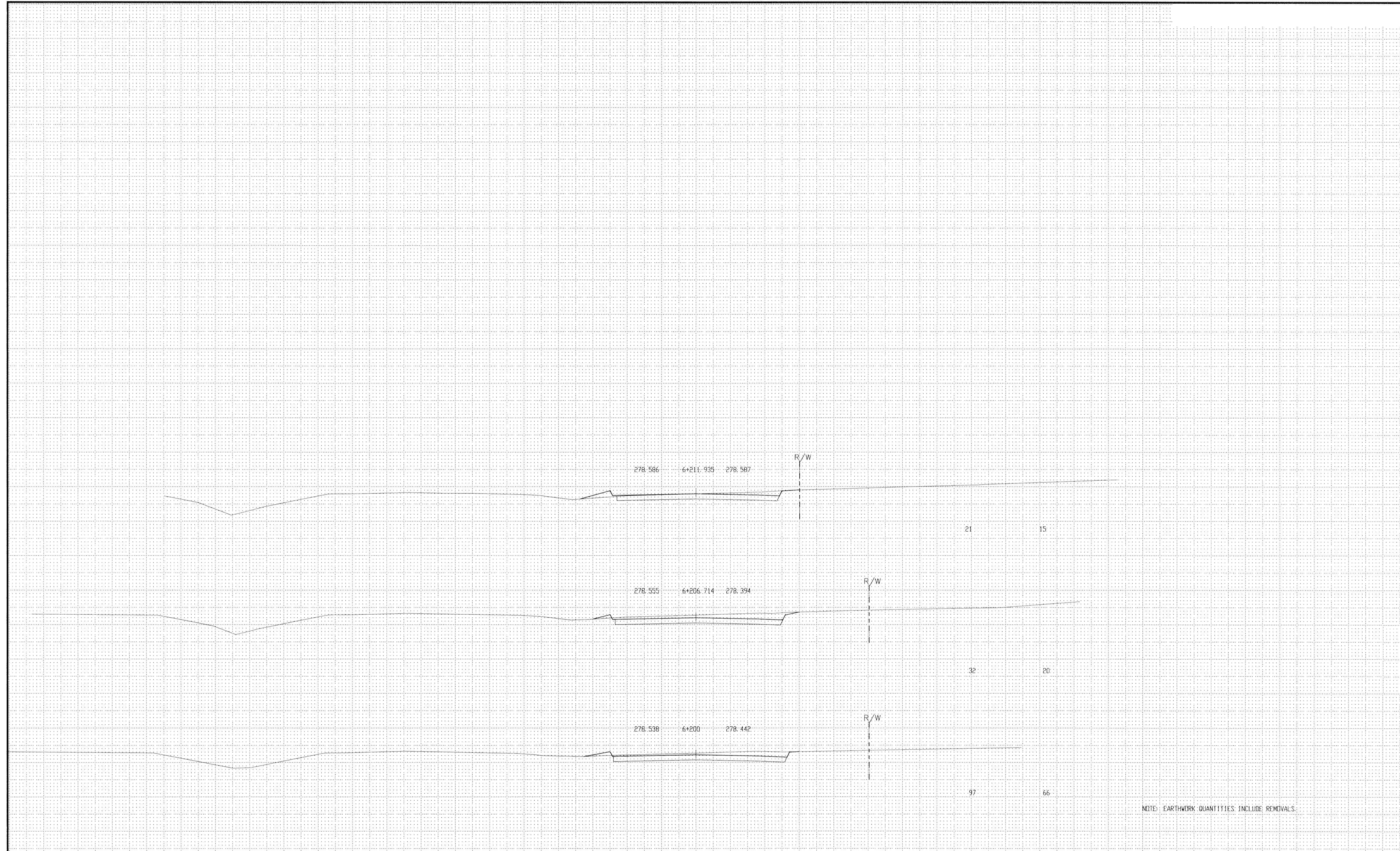
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 CHECKED BY: _____ DATE: _____



ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09
 STATE PROJECT NO. 183-101-08
 STATE PROJECT NO. 146-080-01
 COUNTY PROJECT NO. _____

CROSS- SECTION
 STA 6+140.000 TO 6+180.000
 Sheet 38 of 64 Sheets



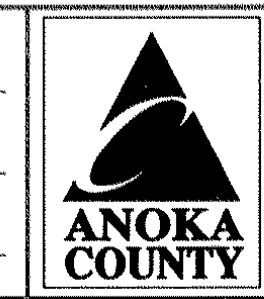
NO	DATE	BY	CKD	APPR	REVISION



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

DATE _____ REG. NO. _____

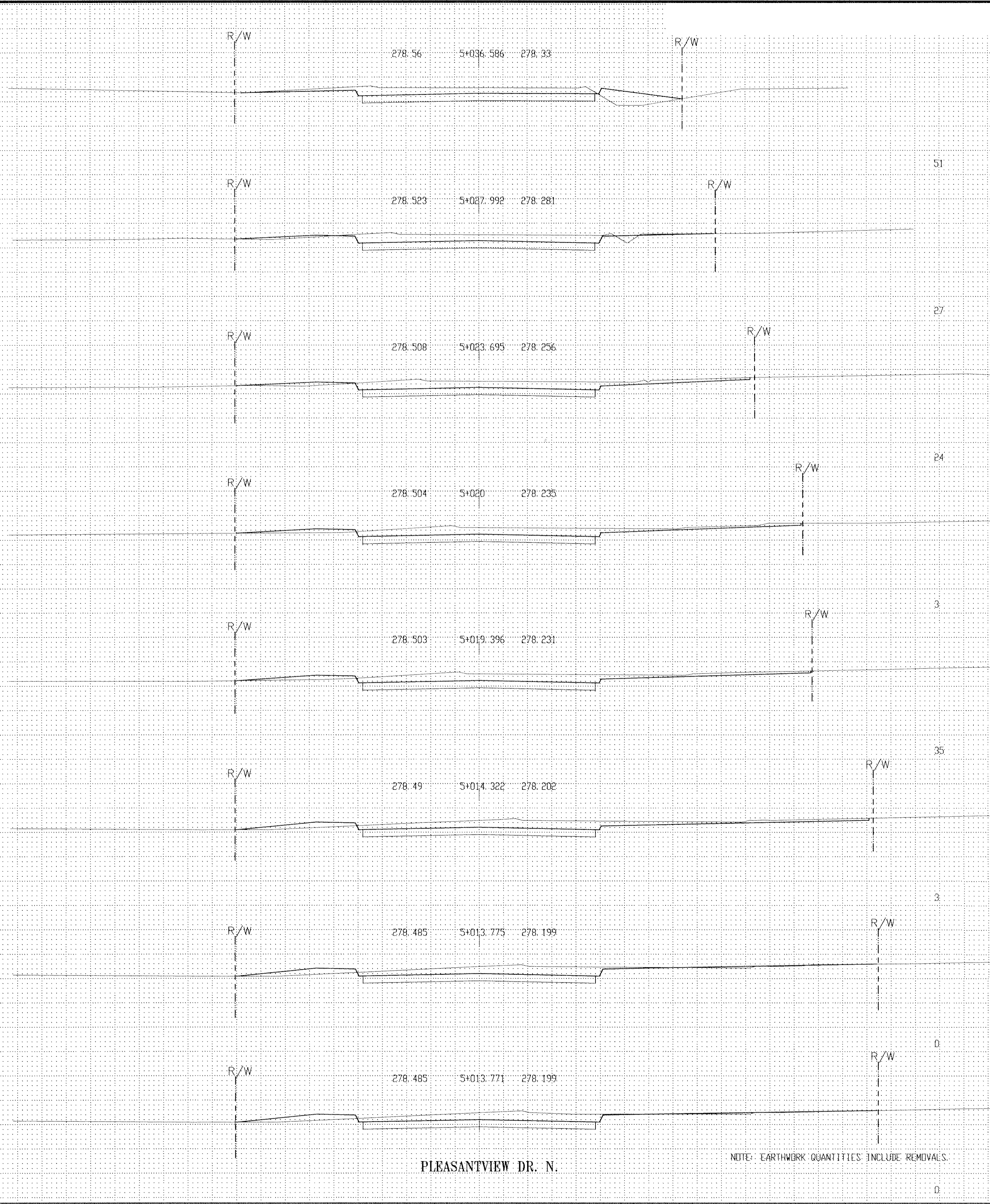
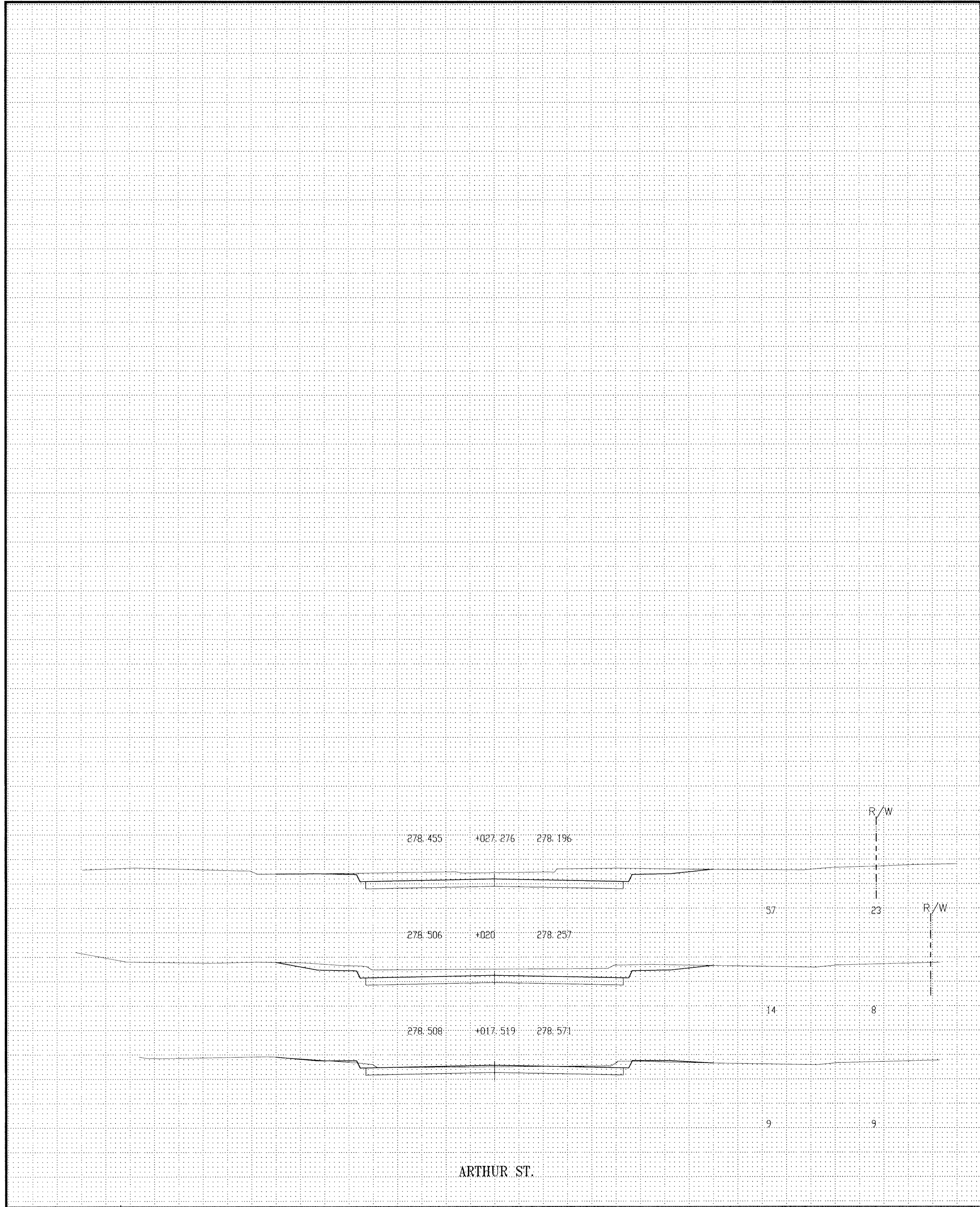
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ANOKA COUNTY
 HIGHWAY DEPT.

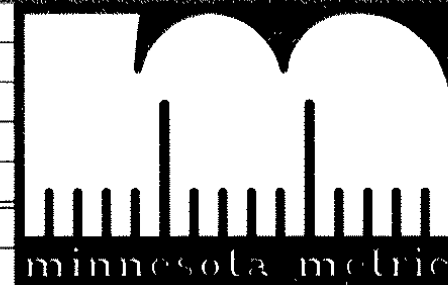
STATE PROJECT NO. 02-635-09
 STATE PROJECT NO. 183-101-08
 STATE PROJECT NO. 146-080-01
 COUNTY PROJECT NO. _____

CROSS- SECTION
 STA 6+200.000 TO 6+211.935
 Sheet 39 of 64 Sheets



NOTE: EARTHWORK QUANTITIES INCLUDE REMOVALS.

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.

DATE _____ REG. NO. _____

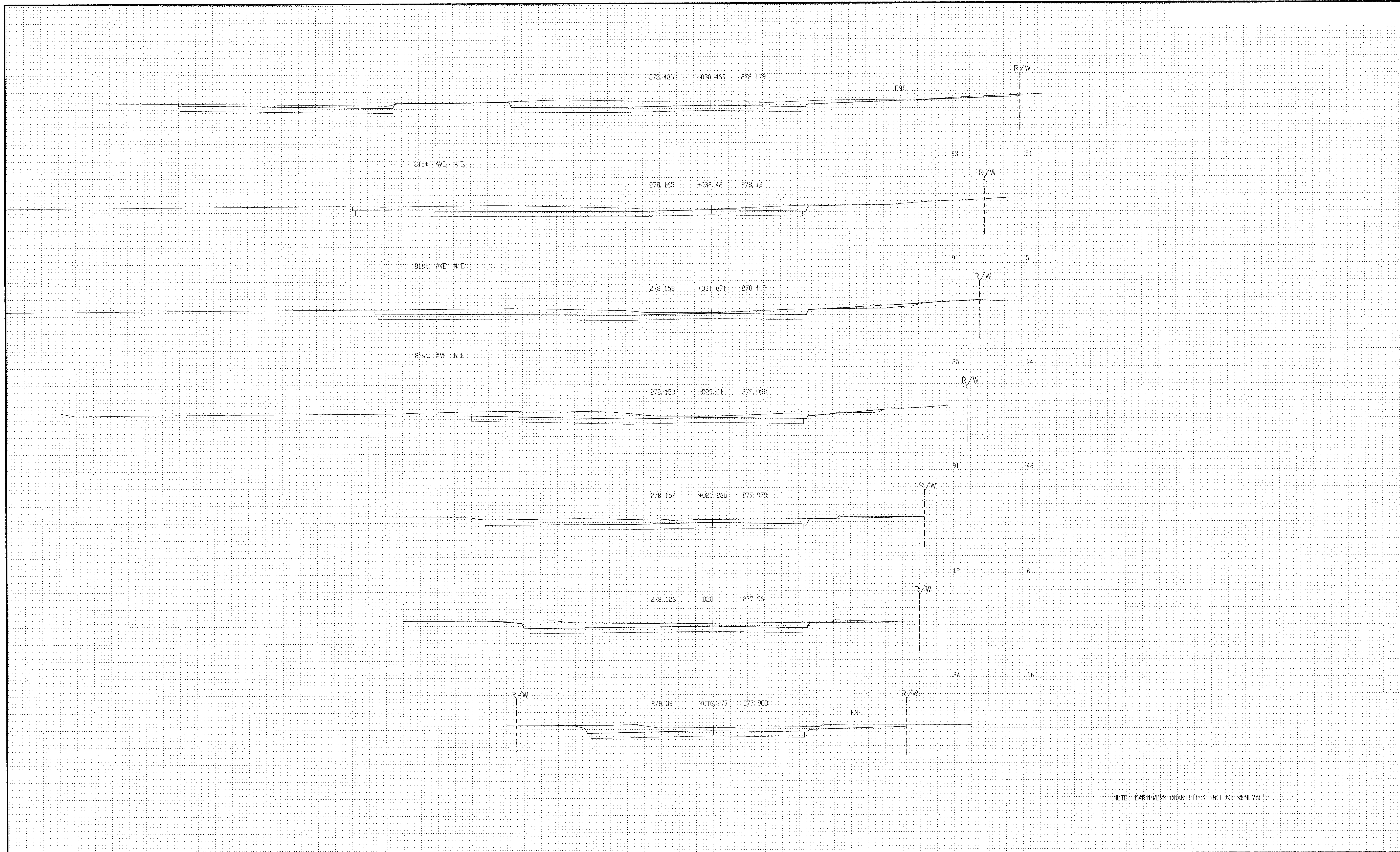
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 CHECKED BY: _____ DATE: _____



ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09
 STATE PROJECT NO. 183-101-08
 STATE PROJECT NO. 146-080-01
 COUNTY PROJECT NO. _____

CROSS- SECTION
 ARTHUR ST. & PLEASANTVIEW DR. N.
 Sheet 40 of 64 Sheets



NOTE: EARTHWORK QUANTITIES INCLUDE REMOVALS.

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\0263509\PLAN\40-SECTION-PLEAS-S.dwg 04/24/2002 03:09:38 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.

DATE _____ REG. NO. _____

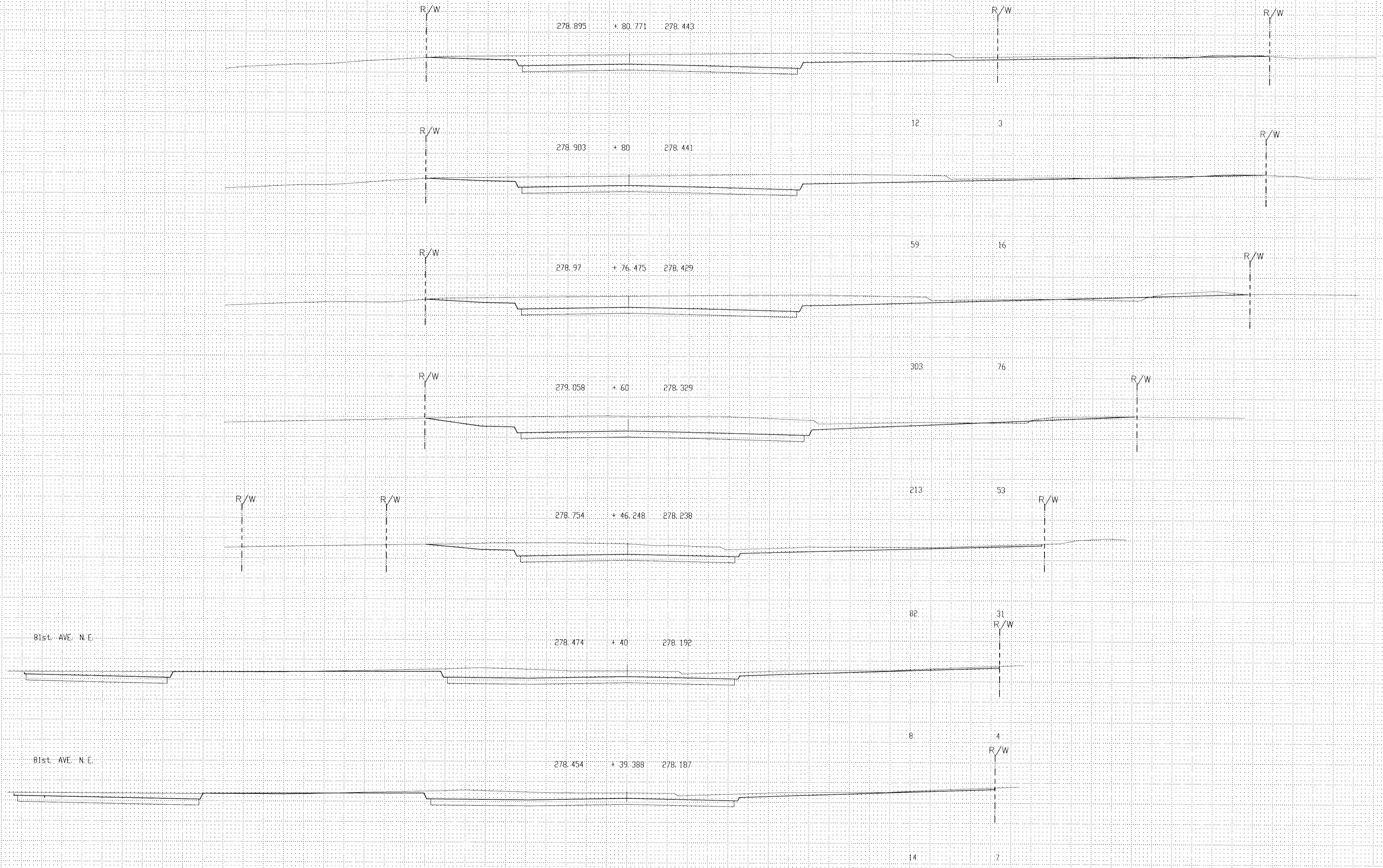
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ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09
 STATE PROJECT NO. 183-101-08
 STATE PROJECT NO. 146-080-01
 COUNTY PROJECT NO. _____

CROSS- SECTION
 PLEASANTVIEW DRIVE SO.
 STA 0+016.277 TO 0+038.469
 Sheet 41 of 64 Sheets



NOTE: EARTHWORK QUANTITIES INCLUDE REMOVALS.

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.

DATE _____ REG. NO. _____

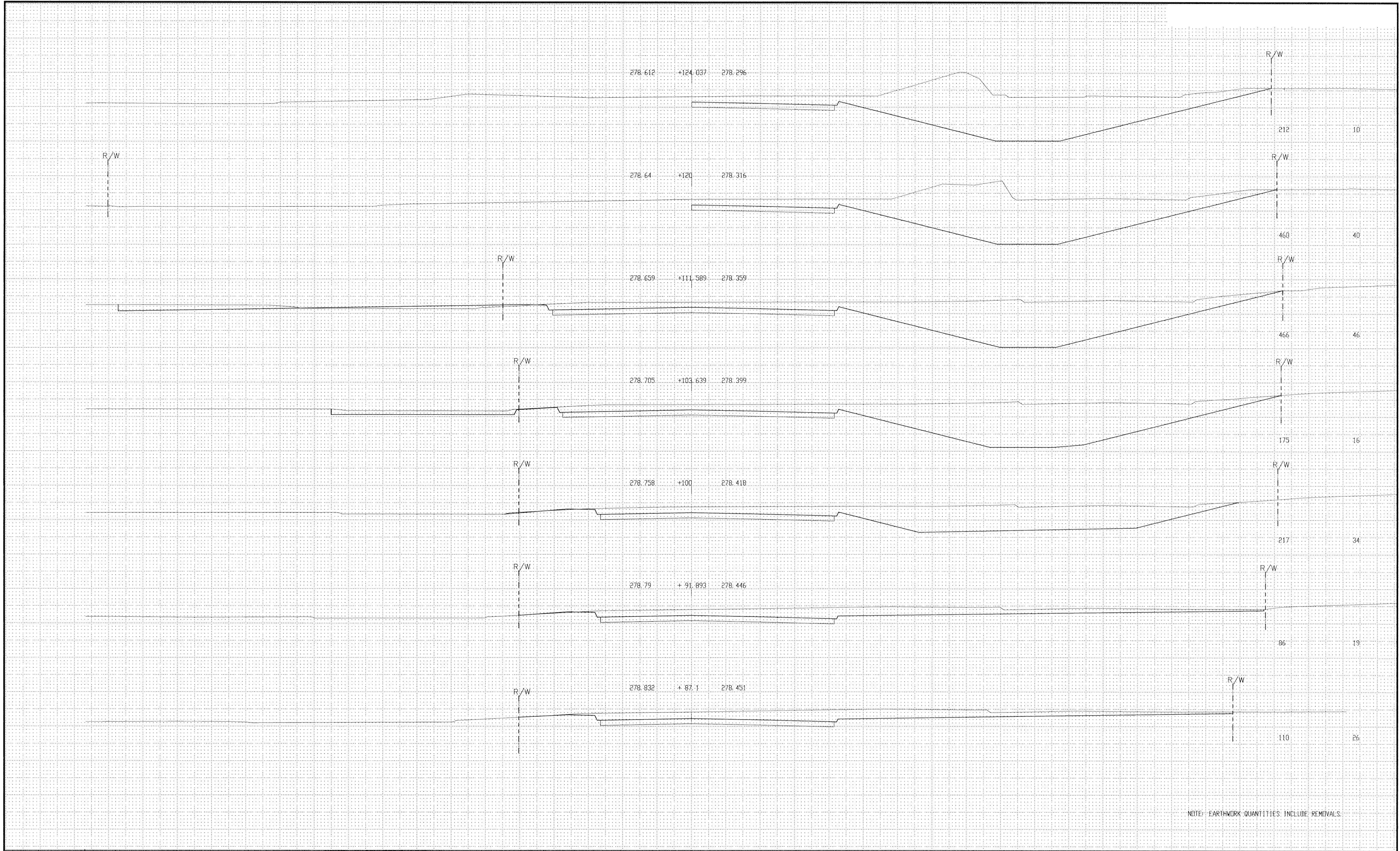
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 CHECKED BY: _____ DATE: _____



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09
 STATE PROJECT NO. 183-101-08
 STATE PROJECT NO. 146-080-01
 COUNTY PROJECT NO. _____

CROSS-SECTION
 PLEASANTVIEW DRIVE SO.
 STA 0+039.388 TO 0+080.771
 Sheet 42 of 64 Sheets



NOTE: EARTHWORK QUANTITIES INCLUDE REMOVALS.

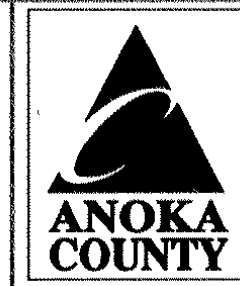
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I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE _____ REG. NO. _____

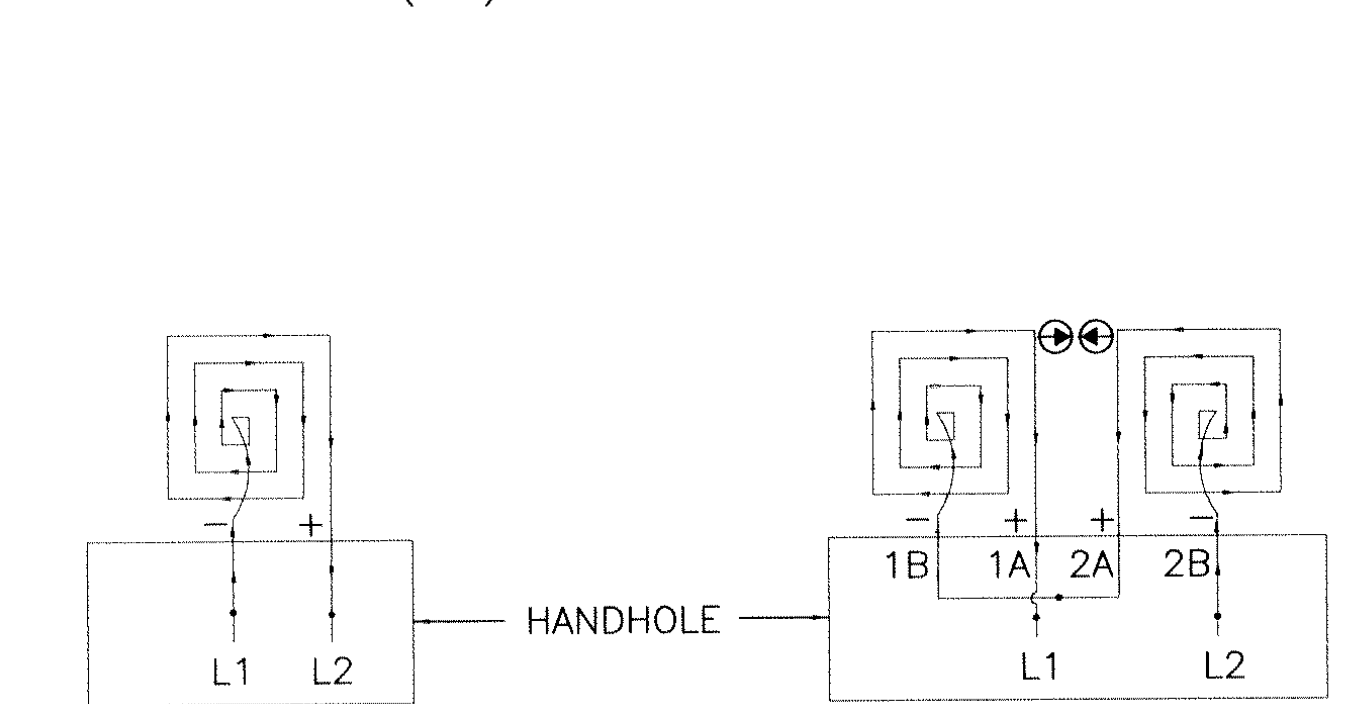
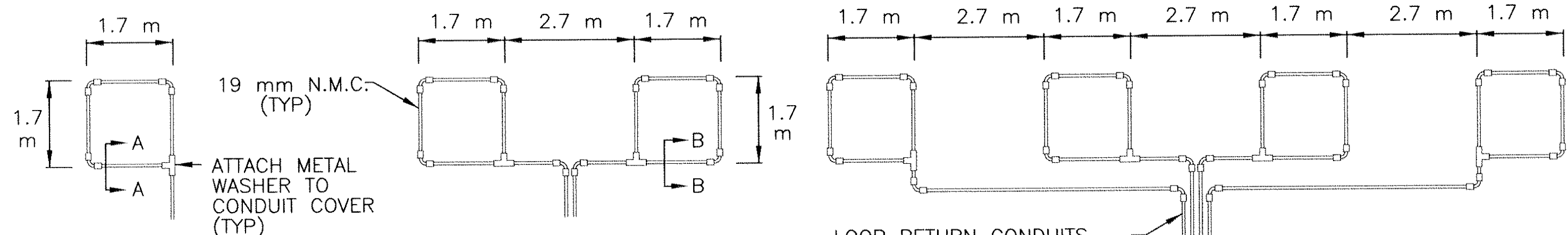
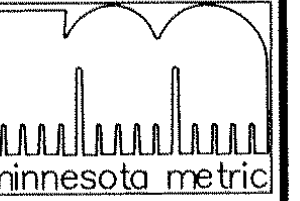
DRAWN BY KGJ DATE 9/21/01
 DESIGN BY KGJ DATE 9/21/01
 CHECKED BY _____ DATE _____



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09
 STATE PROJECT NO. 183-101-08
 STATE PROJECT NO. 146-080-01
 COUNTY PROJECT NO. _____

CROSS- SECTION
 PLEASANTVIEW DRIVE SO.
 STA 0+087.100 TO 0+124.037
 Sheet 43 of 64 Sheets

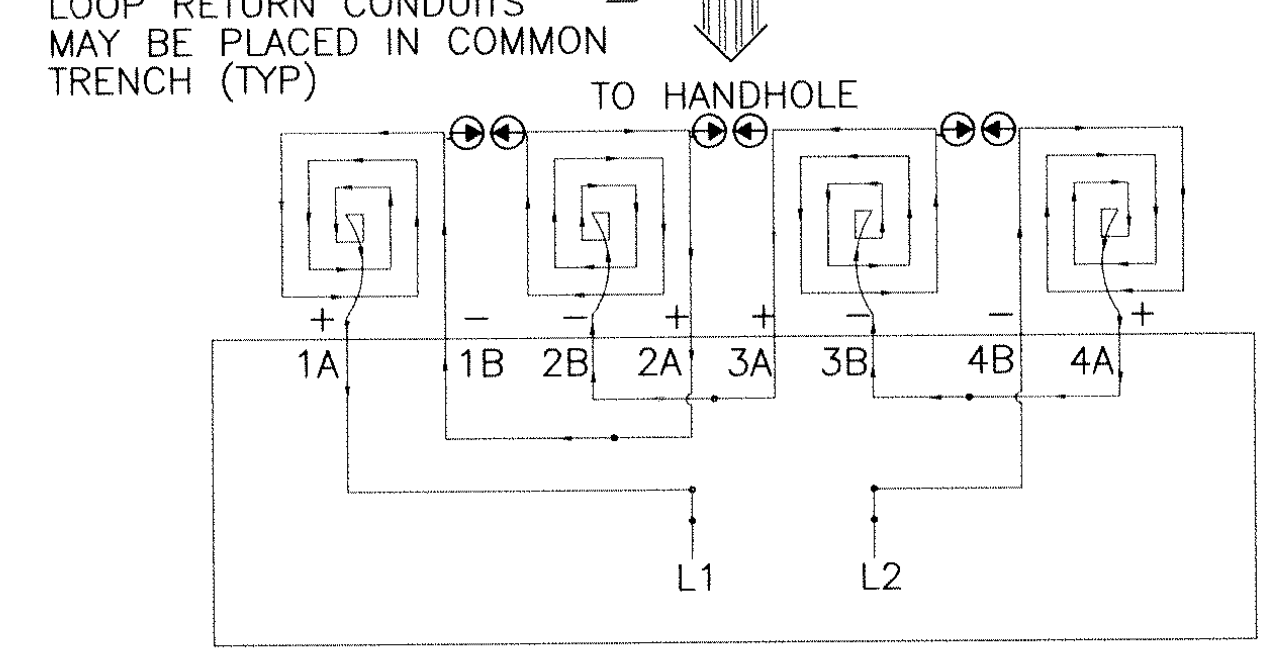


LOOP DETECTOR DETAIL 'A'
(LOOP PHASING FOR SINGLE CONNECTION)

L1 TO 1A
1B TO 2A
2B TO L2

LOOP DETECTOR DETAIL 'B'
(LOOP PHASING FOR SERIES CONNECTION)

LOOP CONNECTIONS SHALL BE LABELED AND SPLICED IN THE HANDHOLE AS FOLLOWS:



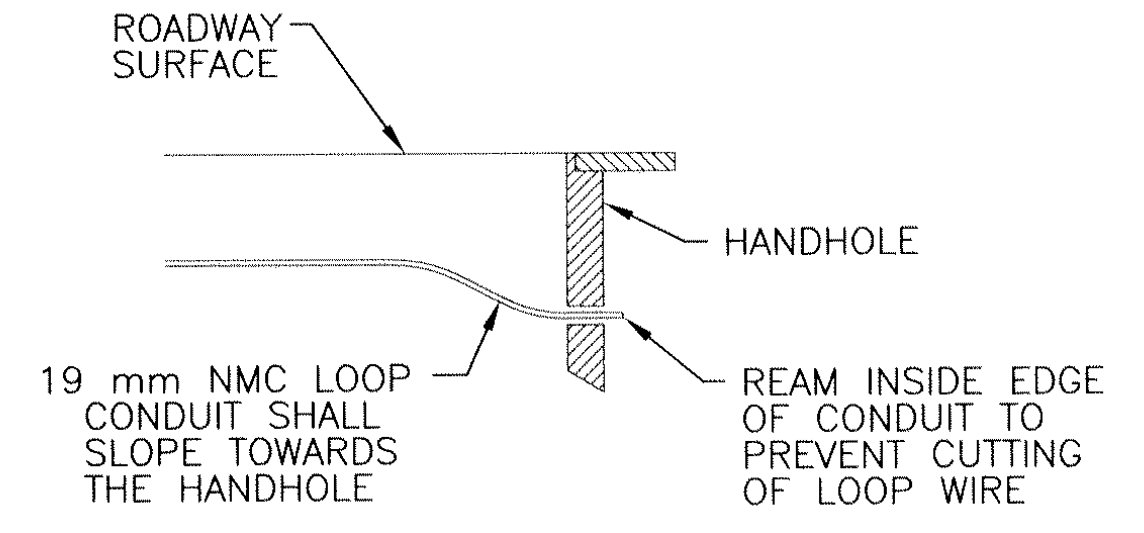
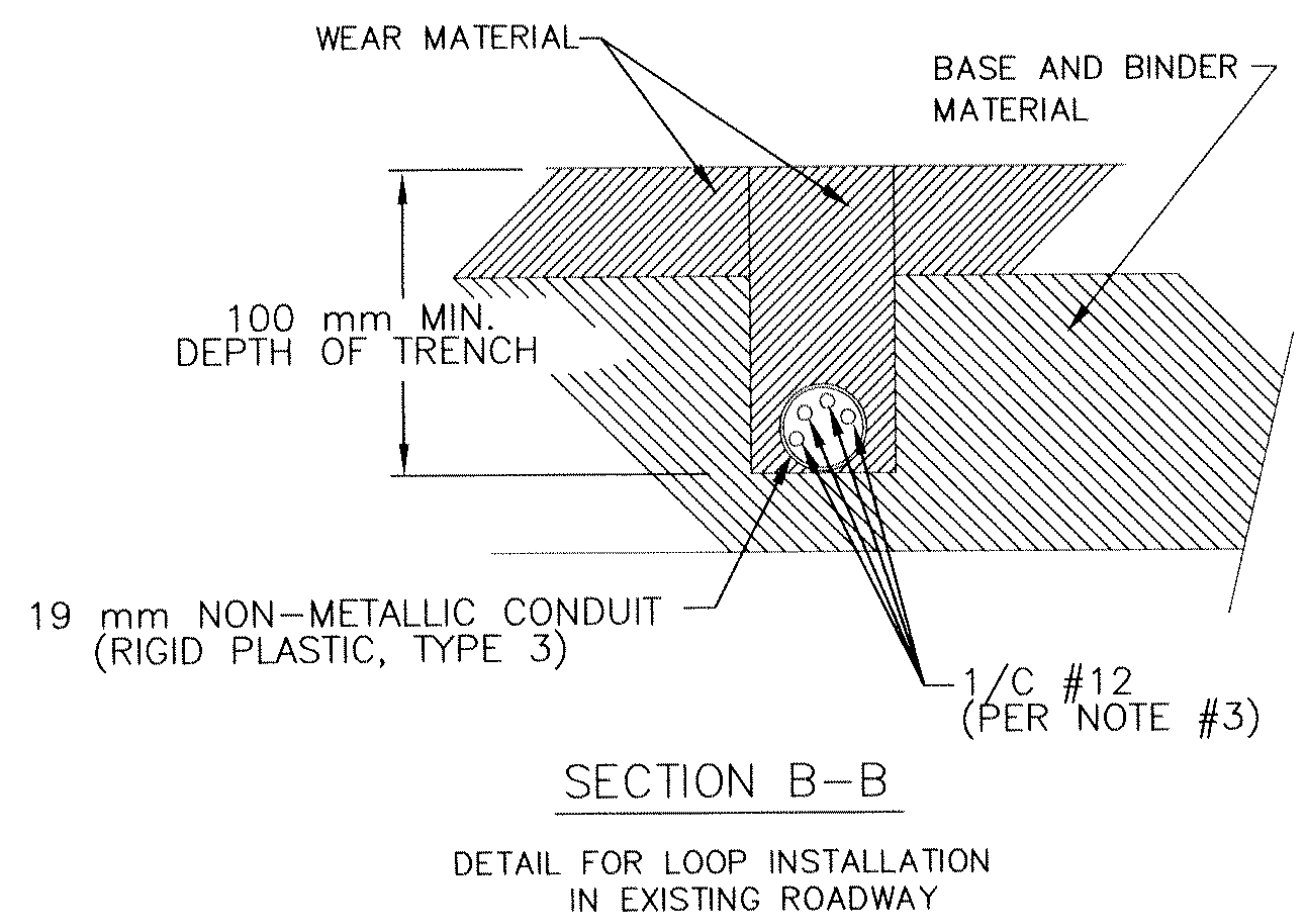
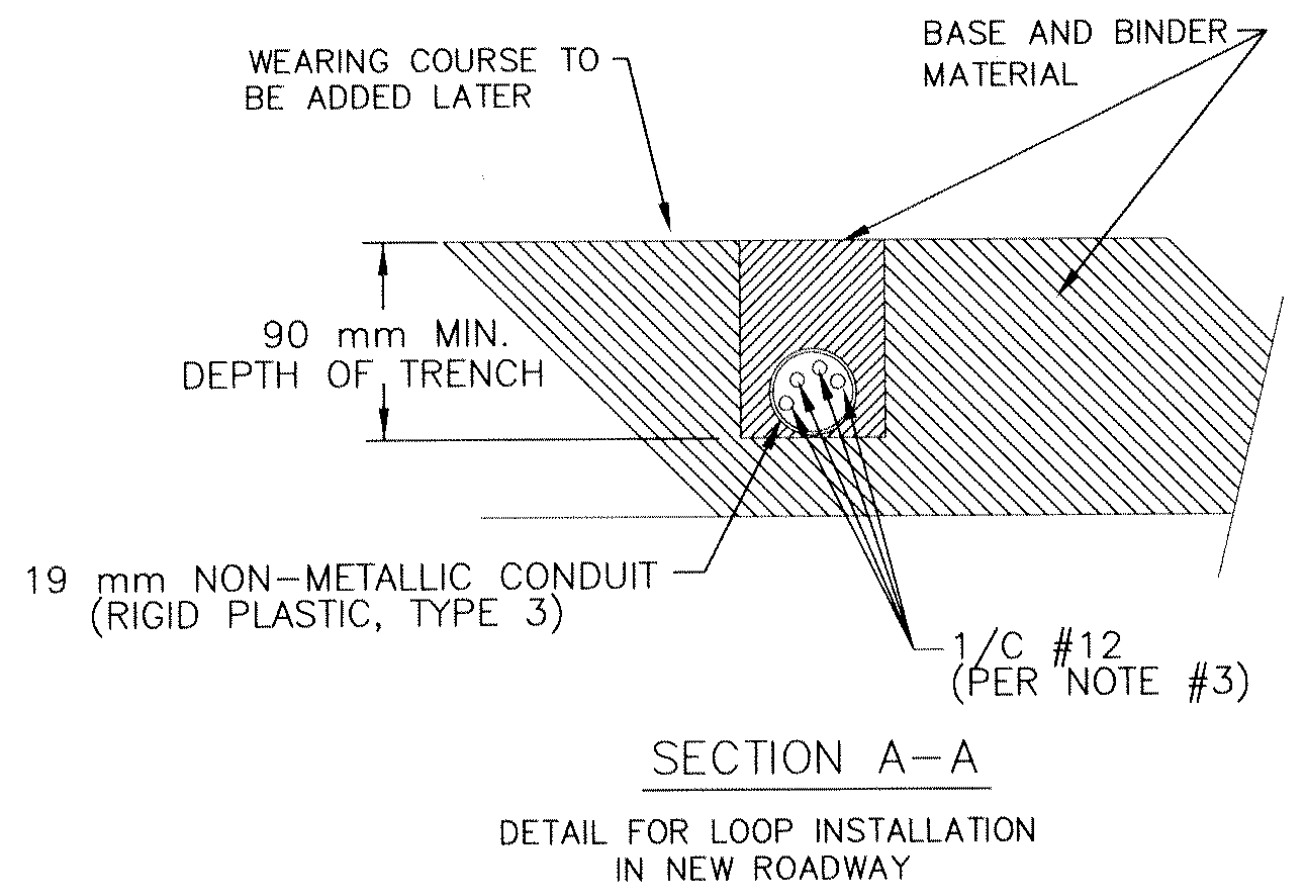
LOOP RETURN CONDUITS MAY BE PLACED IN COMMON TRENCH (TYP)

LOOP CONNECTIONS SHALL BE LABELED AND SPLICED IN THE HANDHOLE AS FOLLOWS:

L1 TO 1A 3B TO 4A
1B TO 2A 4B TO L2
2B TO 3A

SPLICE CONTROL CABLE TO L1 & L2 IN HANDHOLE. ALL CONDUCTORS SHALL BE TAGGED IN HANDHOLE (1A, 1B, ECT)

LOOP DETECTOR DETAIL 'C'
(LOOP PHASING FOR SERIES CONNECTION)



- LOOP DETECTOR WIRING
- 1) ALL CORNERS SHALL BE 90° CONDUIT BENDS.
 - 2) CONNECT WIRES IN HANDHOLES USING SPLICE KIT METHOD DESCRIBED IN THE SPECIAL PROVISIONS.
 - 3) LOOP DETECTOR WIRES SHALL BE #12 AWG CROSSED LINKED POLYETHYLENE (XLP). SEE SPECIAL PROVISIONS.
 - 4) LOOP LEAD IN WIRES SHALL BE TWISTED A MIN. OF (5) TURNS PER 0.3 METER (1 FOOT) THROUGH THE CONDUIT TO THE HANDHOLE.
 - 5) NMC DESIGNATES NON-METALLIC CONDUIT (SPEC. 3803)
 - 6) LOOPS 1.7 m x 1.7 m THRU 1.7 m x 4.3 m SHALL HAVE (4) TURNS.
 - 7) LOOPS 1.7 m x 4.6 m AND LARGER SHALL HAVE (2) TURNS.

STANDARD PLATES	
THESE STANDARD PLATES AS APPROVED BY FHWA SHALL APPLY:	
PLATE NO.	DESCRIPTION
* M7035 K	CONCRETE WALK AND CURB RETURNS AT ENTRANCES
* M7036 D	PEDESTRIAN CURB RAMP
* M7100 G	CONCRETE CURB AND GUTTER (DESIGN B)
* M8110 D	TRAFFIC SIGNAL BRACKETING - POLE MOUNTED
* M8111 C	TRAFFIC SIGNAL BRACKETING - PEDESTAL MOUNTED
* M8112 C	PEDESTAL FOUNDATION
* M8114 A	PVC HANDHOLE/PULLBOX
M8115 D	PEDESTRIAN PUSH BUTTON INSTALLATION
* M8118 C	SERVICE EQUIPMENT AND POLE-TRAFFIC CONTROL SIGNALS
* M8119 C	GROUND MOUNTED CABINET FOUNDATION
M8120 K	PA85 POLE FOUNDATION
* M8121 D	TRANSFORMER BASE AND POLE BASE PLATE
* M8122 C	PEDESTAL AND PEDESTAL BASE
* M8123 E	POLE AND MAST ARM
* M8124 E	MAST ARM SIGNAL HEAD MOUNTS
* M8126 F	PA90 AND PA100 POLE FOUNDATION

* - APPLIES TO THIS PROJECT

CONDUCTOR COLOR CODE	
R	RED
O	ORANGE
BL	BLUE
WH	WHITE
R/BLK	RED WITH BLACK TRACER
O/BLK	ORANGE WITH BLACK TRACER
BL/BLK	BLUE WITH BLACK TRACER
WH/BLK	WHITE WITH BLACK TRACER
BLK	BLACK
BLK/WH	BLACK WITH WHITE TRACER
G/BLK	GREEN WITH BLACK TRACER
G	GREEN

LEGEND OF SYMBOLS

CONTROLLER AND SERVICE EQUIP. NO's	⊙
SIGNAL BASE NO.	①
SIGNAL FACE NO.	②
LUMINAIRE NO.	③
CONTROLLER AND CABINET	□
CONTROLLER AND CABINET - IN PLACE	■
HANDHOLE	○
HANDHOLE - IN PLACE	●
RIGID STEEL CONDUIT (RSC)	—
RIGID STEEL CONDUIT (RSC) - IN PLACE	—
SIGNAL FACE WITH BACKGROUND SHIELD	▬
SIGNAL FACE W/O BACKGROUND SHIELD	▬
SIGNAL FACE - IN PLACE	▬
PEDESTRIAN INDICATORS	→
PEDESTRIAN INDICATORS - IN PLACE	→
PEDESTRIAN PUSH BUTTONS ON PEDESTAL OR POLE	⊙
PEDESTRIAN PUSH BUTTON STATION	⊙
TRAFFIC SIGNAL PEDESTAL	⊙
TRAFFIC SIGNAL PEDESTAL - INPLACE	⊙
TRAFFIC SIGNAL POLE AND MAST ARM	⊙
TRAFFIC SIGNAL POLE AND MAST ARM - IN PLACE	⊙
STREET LIGHT POLE AND LUMINAIRE	⊙
STREET LIGHT POLE AND LUMINAIRE - IN PLACE	⊙
MAST ARM AND LUMINAIRE	⊙
MAST ARM AND LUMINAIRE - INPLACE	⊙
WOOD POLE	⊙
WOOD POLE - IN PLACE	⊙
SOURCE OF POWER	⊙
RAILROAD SIGNAL - IN PLACE	⊙
RIGHT OF WAY LINE	—
CENTERLINE	—
EDGE OF ROADWAY	—
SHOULDERLINE	—
CURB LINE	—
STOP BAR	—
EMERGENCY VEHICLE PREEMPTION DETECTOR	—

ABBREVIATIONS

3-1(EG)	SIGNAL HEAD PHASE "3" - NO "1"	P2-1(EG)	PEDESTRIAN INDICATION PHASE "2" - NO. "1"
BR. GR.	BARE GROUND	PB	PUSH BUTTON
CH. SW.	CHECK SWITCH	PB2-1(EG)	PUSH BUTTON PHASE "2" - NO. "1"
CLR	CLEAR	PEC	PHOTOELECTRIC CELL
D2-1(EG)	DETECTOR PHASE "2" - NO. "1"	PED	PEDESTRIAN
DWK	DON'T WALK	R	RED
EQG	EQUIPMENT GROUND	R&S	REMOVE AND SALVAGE
EVP	EMERGENCY VEHICLE PRE-EMPTION	RLTA	RED LEFT TURN ARROW
F&I	FURNISH AND INSTALL	RRTA	RED RIGHT TURN ARROW
FL	FLASH/FLASHING	RSC	RIGID STEEL CONDUIT
G	GREEN	SOP	SOURCE OF POWER
GLTA	GREEN LEFT TURN ARROW	SPR	SPARE
GRN	GREEN	ST. LHT	STREET LIGHT
GR. R	GROUND ROD	STA	STATION
GRTA	GREEN RIGHT TURN ARROW	SW	SWITCH
GTHA	GREEN THRU ARROW	SWD	SWITCHED
HH	HANDHOLE	S&R	SALVAGE AND REINSTALL
HPS	HIGH PRESSURE SODIUM	TDW	TELEPHONE DROP WIRE
JB	JUNCTION BOX	WLK	WALK
LUM	LUMINAIRE	YEL	YELLOW
NEU	NEUTRAL	YLTA	YELLOW LEFT TURN ARROW
NMC	NONMETALLIC CONDUIT	YRTA	YELLOW RIGHT TURN ARROW
		YTHA	YELLOW THRU ARROW

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Name: John M Gray, P.E.
Date: August 27, 2001 Lic. No. 22457



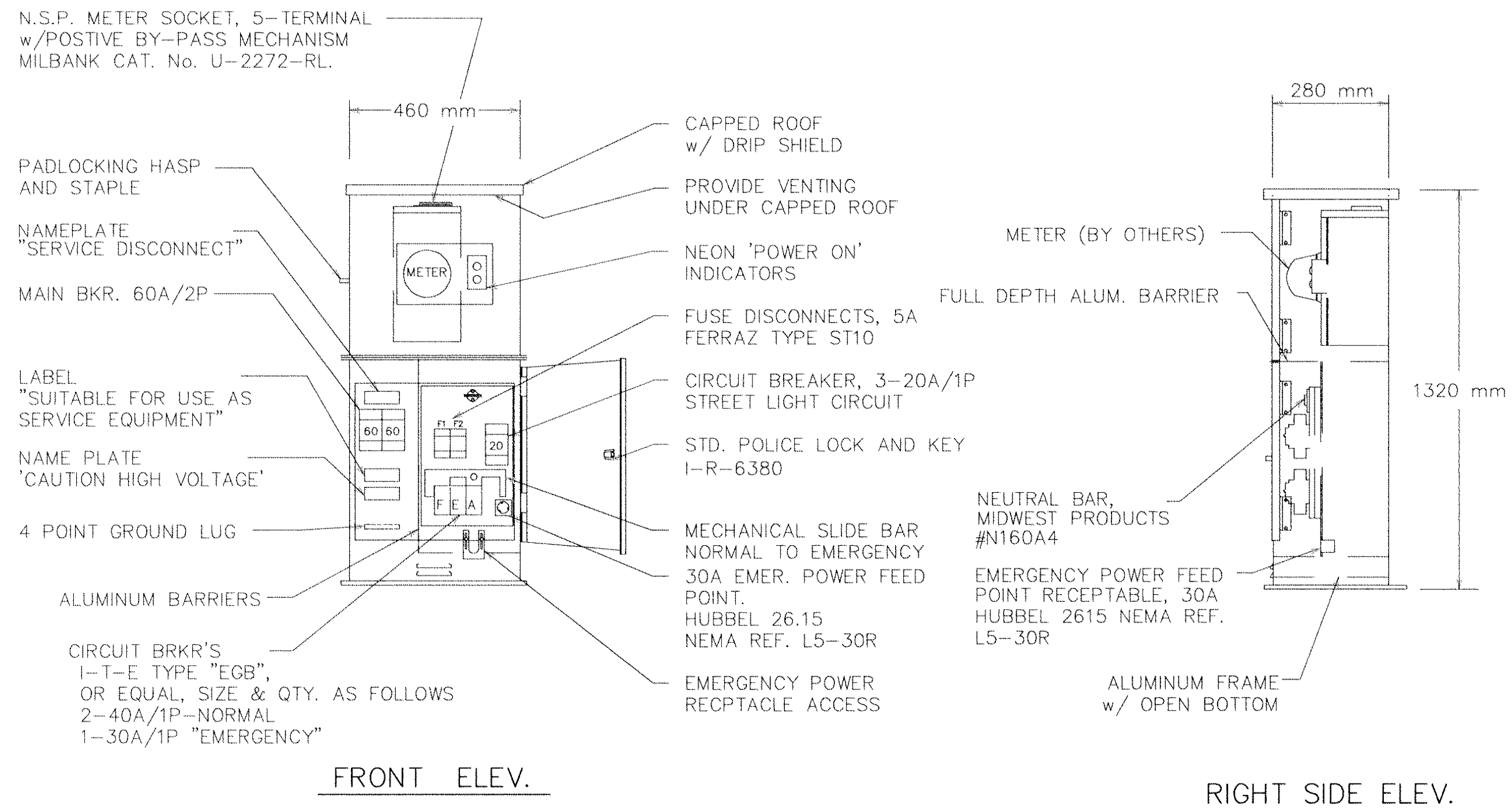
ANOKA & RAMSEY COUNTIES, MINNESOTA
CITIES OF MOUNDS VIEW & SPRING LAKE PARK

TRAFFIC SIGNAL SYSTEM
DETAILS & STANDARD PLATES
CSAH 10 AT PLEASANTVIEW DRIVE

FILE NO. AANOKC0105.00	44
DATE 08/27/01	64

S.P. 02-635-09
S.P. 146-080-01
S.P. 183-101-08

SIGNAL SERVICE CABINET



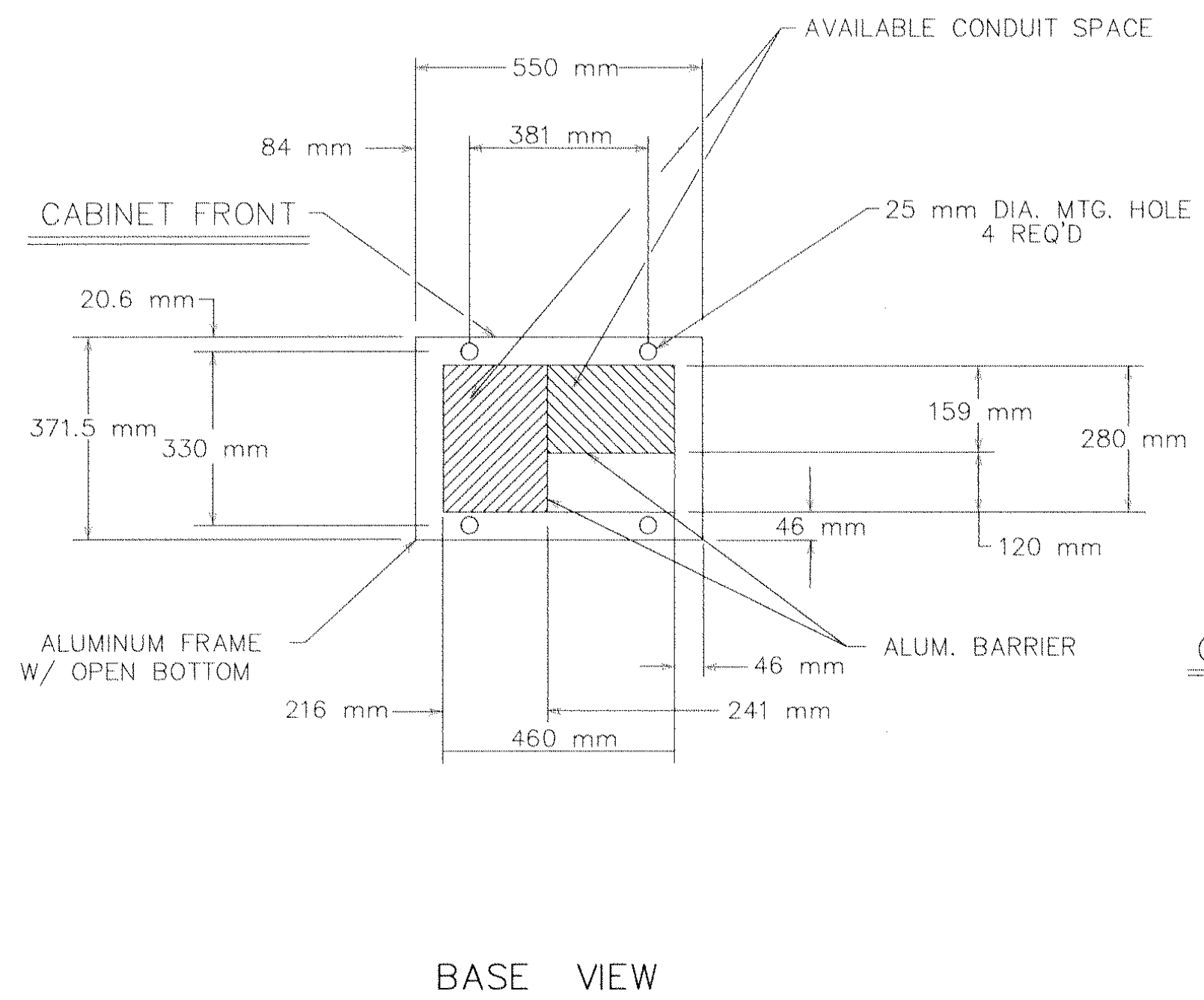
FRONT ELEV.
CONSTRUCTION NOTES

ENCLOSURE SHALL BE FABRICATED FROM 1/8 INCH ALUMINUM FOR OUTDOOR WEATHERPROOF SERVICE.
DOORS TO BE GASKETED, ALL HINGES, PINS AND LOCKS TO BE OF NON CORRODING CONSTRUCTION.
CABINET SHALL HAVE ANODIC COATING FOR ALL ALUMINUM SURFACES. SEE SPECIAL PROVISIONS.
ENCLOSURE SHALL BE 'UL' APPROVED

RIGHT SIDE ELEV.

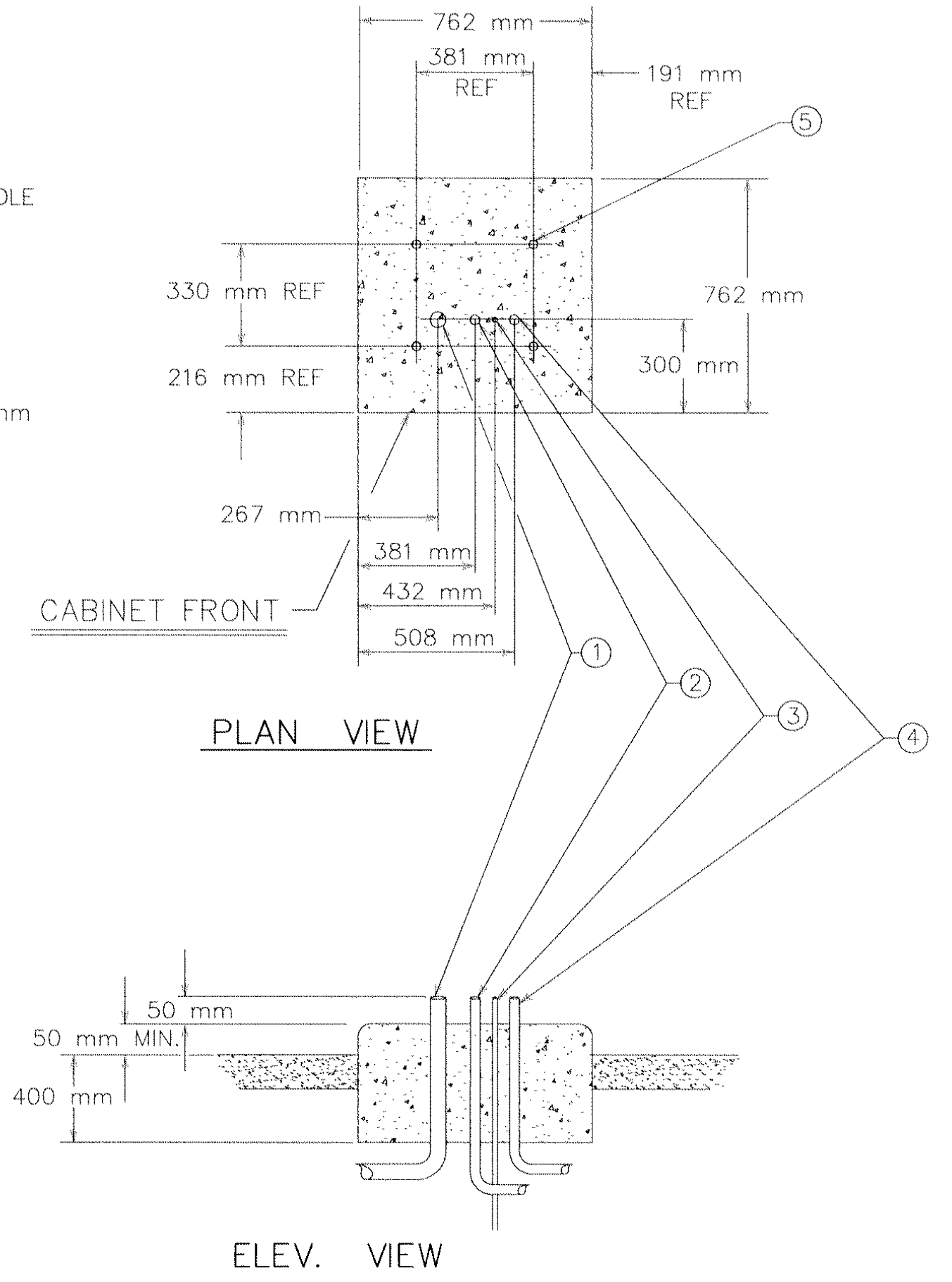
SERVICE CABINET SHALL HAVE BASE GASKETS FURNISHED AND INSTALLED BY CONTRACTOR.

SERVICE CABINET FOUNDATION

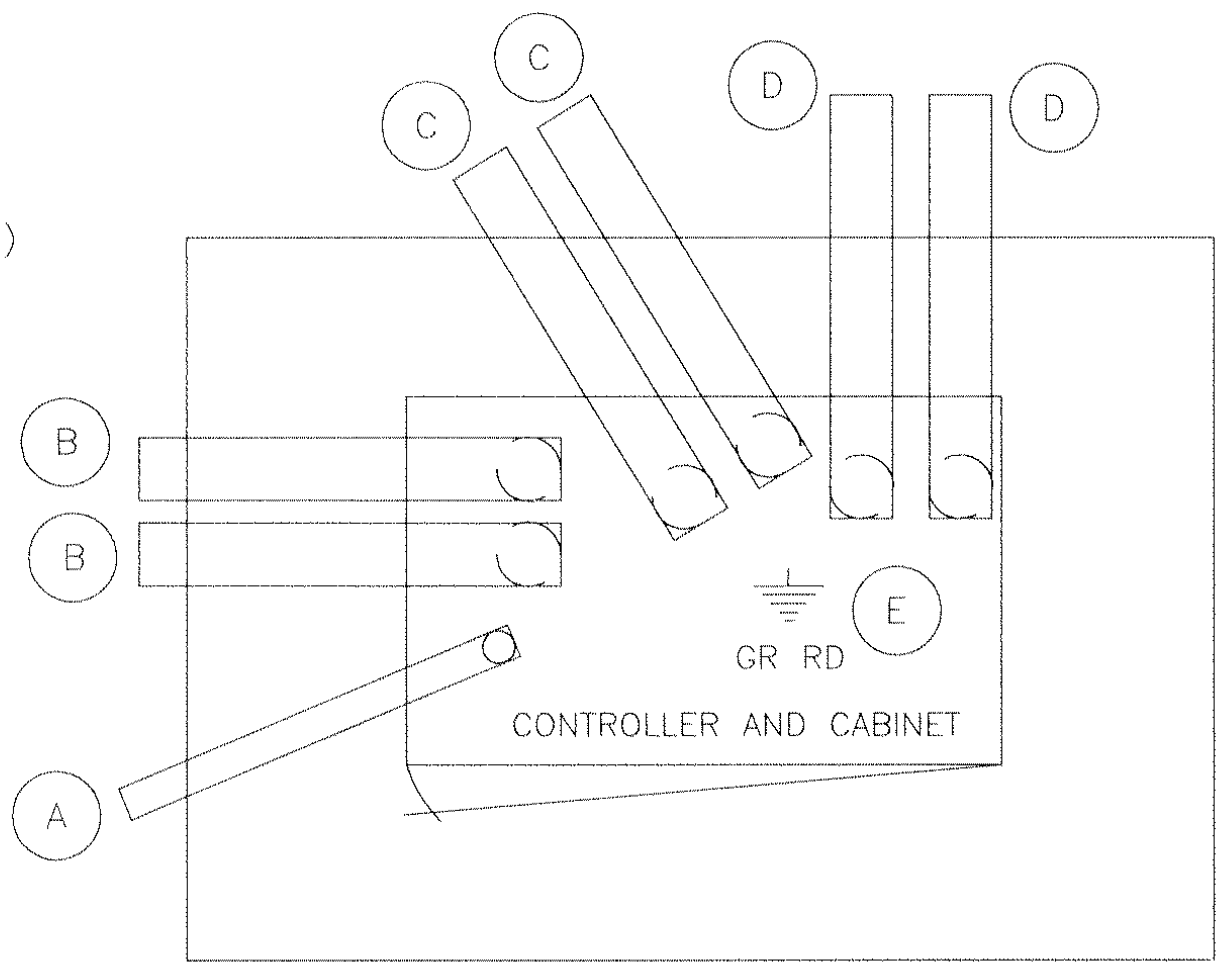


BASE VIEW

- ① 53 mm RSC TO WOOD POLE (FOR POWER CABLES)
- ② 53 mm RSC TO CONTROLLER CABINET (VIA HH 20)
- ③ GROUNDING ROD
- ④ 53 mm RSC TO HANDHOLES 1 AND 18 (STREET LIGHTING)
- ⑤ ANCHOR BOLT LOCATIONS (4 REQUIRED)



- (A) 53 mm R.S.C. FOR SERVICE CONNECTION (VIA H.H.20)
- (B) 103 mm R.S.C. TO H.H.1
- (C) 103 mm R.S.C. TO H.H.18
- (D) 78 mm R.S.C. STUBOUT, THREAD & CAP BOTH ENDS (FOR FUTURE USE).
- (E) 15.8 mm DIA X 4.6 m GROUND ROD

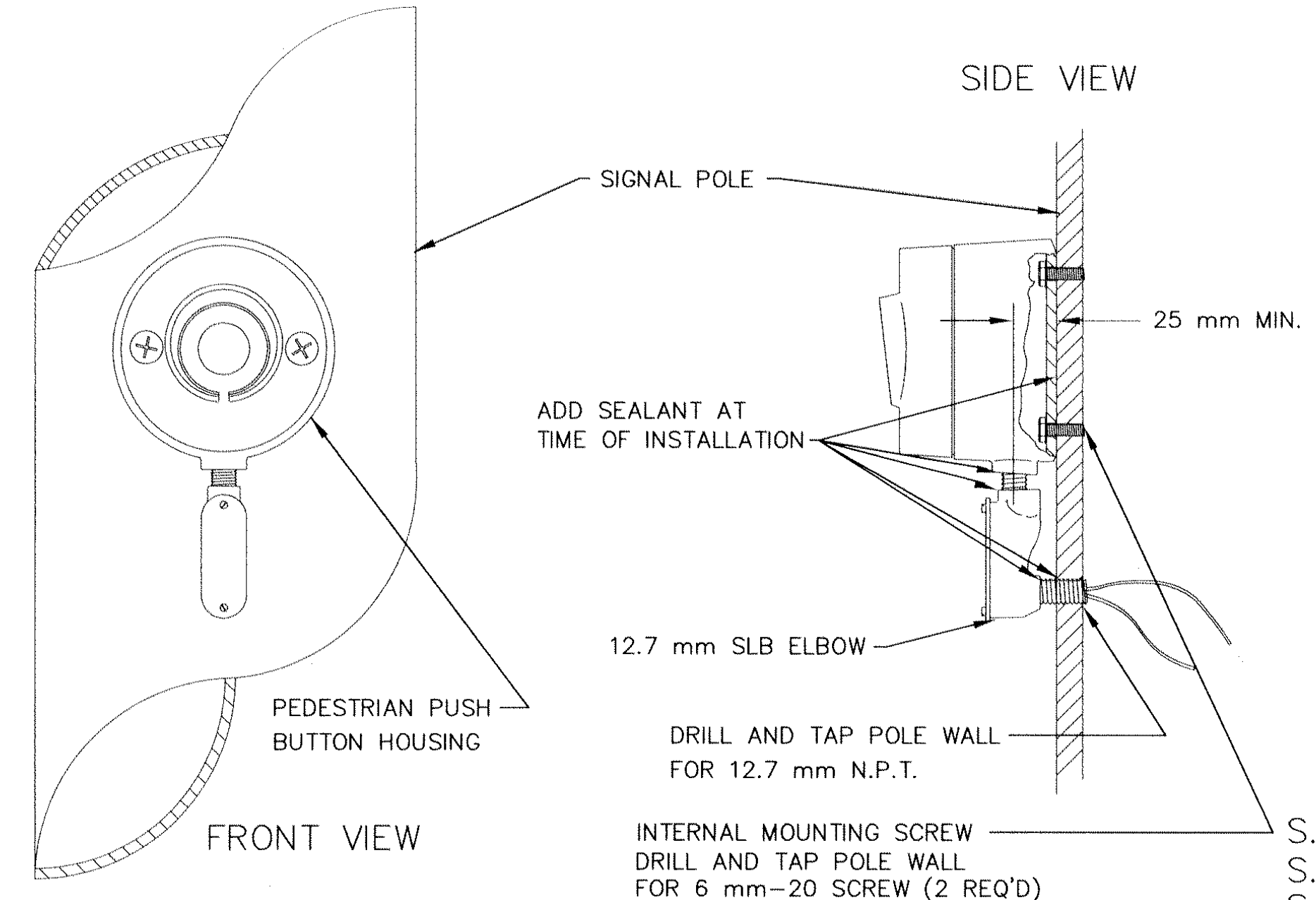


CONCRETE FOUNDATION
SEE MN/DOT STANDARD PLATE NO. M8119C FOR DIMENSIONS.

SEE INTERSECTION LAYOUT FOR CONDUIT & CABLE INFORMATION

TYPICAL CONTROLLER CABINET PAD LAYOUT
NO SCALE

MAST ARM POLE PEDESTRIAN PUSH BUTTON DETAIL



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S.P. 183-101-08

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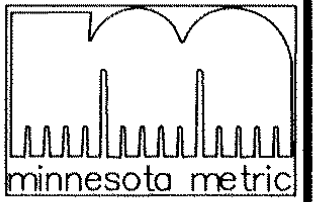
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Name: John M Gray, P.E.
Date: August 27, 2001 Lic. No. 22457

SEH
PHONE: (651) 490-2000
3535 VADNAIS CENTER DR.
ST. PAUL, MN 55110

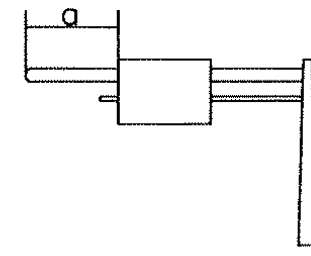
ANOKA & RAMSEY COUNTIES, MINNESOTA
CITIES OF MOUNDS VIEW & SPRING LAKE PARK

TRAFFIC SIGNAL SYSTEM
CABINET AND PUSH BUTTON DETAILS
CSAH 10 AT PLEASANTVIEW DRIVE

FILE NO. AANOKC0105.00	45
DATE 08/27/01	64



F & I SIGN PANELS - TYPE D								
SIGN PANEL	SIZE (inches)	SIZE (meters)	NO. REQ.	NO. POSTS PER SIGN	POST SPACING (mm)	AREA (m ²) PER SIGN	POLE NO.	a
D-1	120x24	3.05x0.61	1	3	1145	1.86	1	7.5 m
D-2	84x24	2.13x0.61	1	2	1375	1.30	2	6 m
D-3	120x24	3.05x0.61	1	3	1145	1.86	4	7.5 m
D-4	84x24	2.13x0.61	1	2	1375	1.30	5	6 m

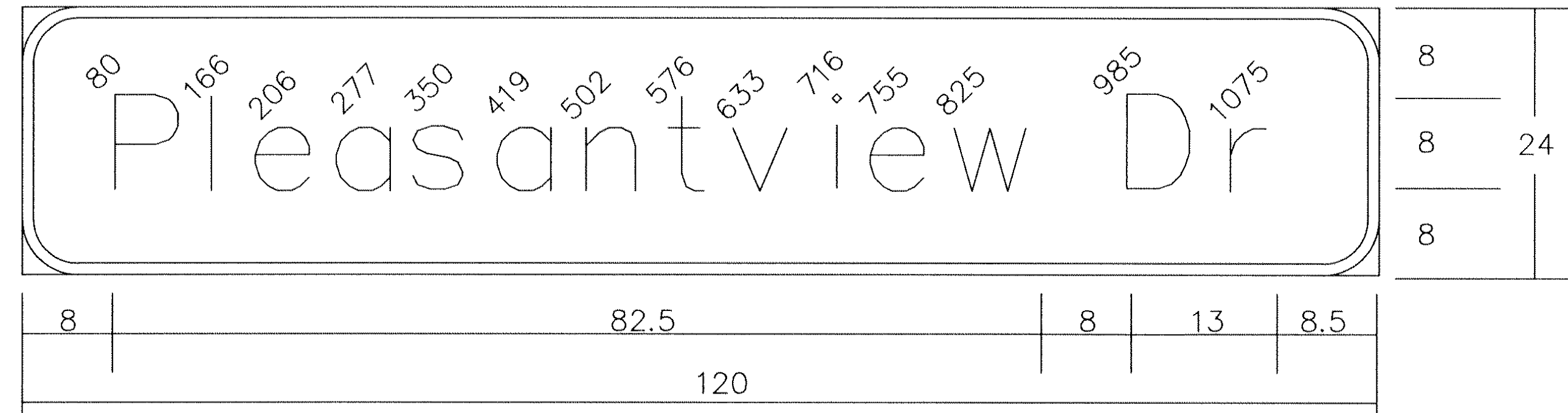


F & I SIGN PANELS - TYPE C								
SIGN PANEL	SIZE (in.)	SIZE (m)	NO. REQ.	NO. POSTS PER SIGN	POST SPACING (mm)	AREA (m ²) PER SIGN	POLE NO.	a
R6-1L	36x12	0.91x0.30	2	①	-	0.28	1,4	-
R6-1R	36x12	0.91x0.30	2	①	-	0.28	1,4	-
R9-3a	18x18	0.46x0.46	4	①	-	0.21	2,3,4	-
R10-12	36x48	0.91x1.22	2	2	610	1.11	2,5	0.5 m

NOTES:

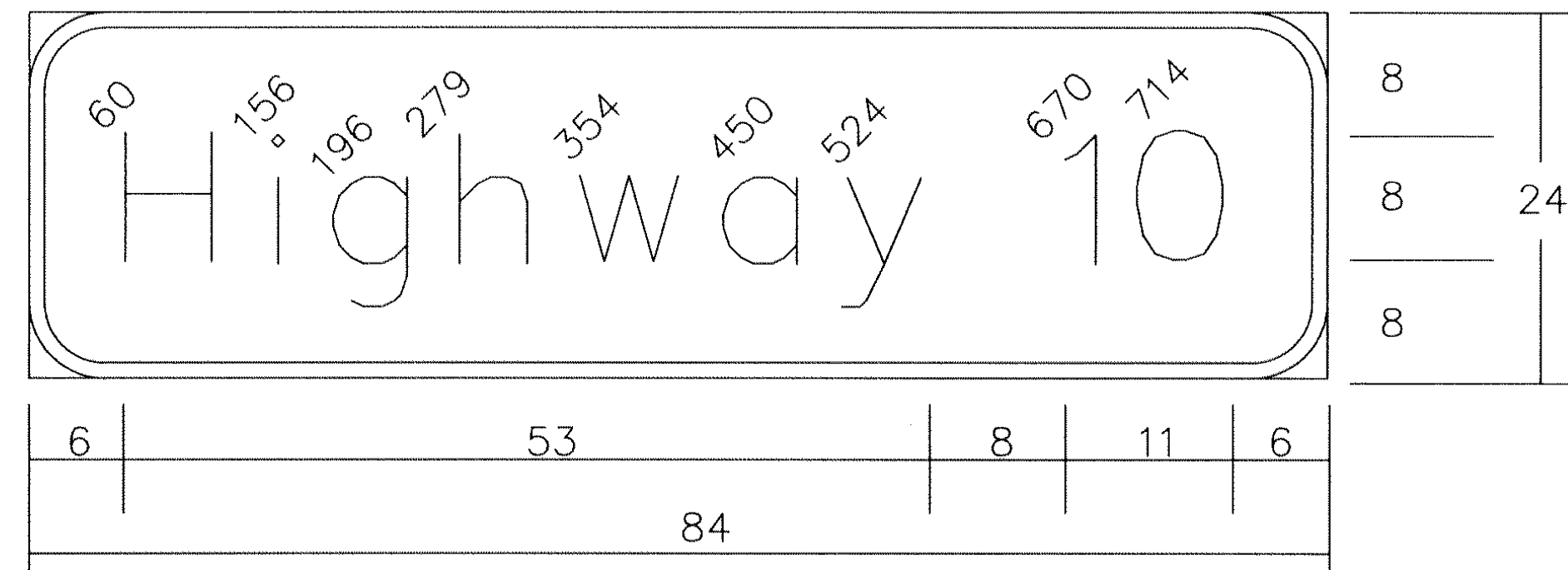
- COLOR-WHITE LEGEND AND BORDER ON GREEN BACKGROUND, FULLY REFLECTORIZED.
- CORNERS EXTENDING BEYOND THE BORDER SHALL NOT BE TRIMMED.
- FOR STRUCTURAL DETAILS, TYPE "D" SIGNS, SEE STANDARD SIGNS MANUAL, PAGE 105A AND B.
- FOR TYPE "D" STRINGER AND PANEL-JOINT DETAIL, SEE STANDARD SIGNS MANUAL.
- SIGN PANELS TO BE FURNISHED AND INSTALLED INCIDENTAL TO ITEM NO. 2565.511 FOR THIS SIGNAL SYSTEM.
- ① = MOUNT ON TRAFFIC SIGNAL MAST ARM POLE OR ON PEDESTAL POLE AS NOTED IN PLANS & SPECIAL PROVISIONS.
- ALL NEW TYPE C AND D SIGNS SHALL BE FABRICATED USING VIP SHEETING. SEE SPECIAL PROVISIONS.

D-1, D-3



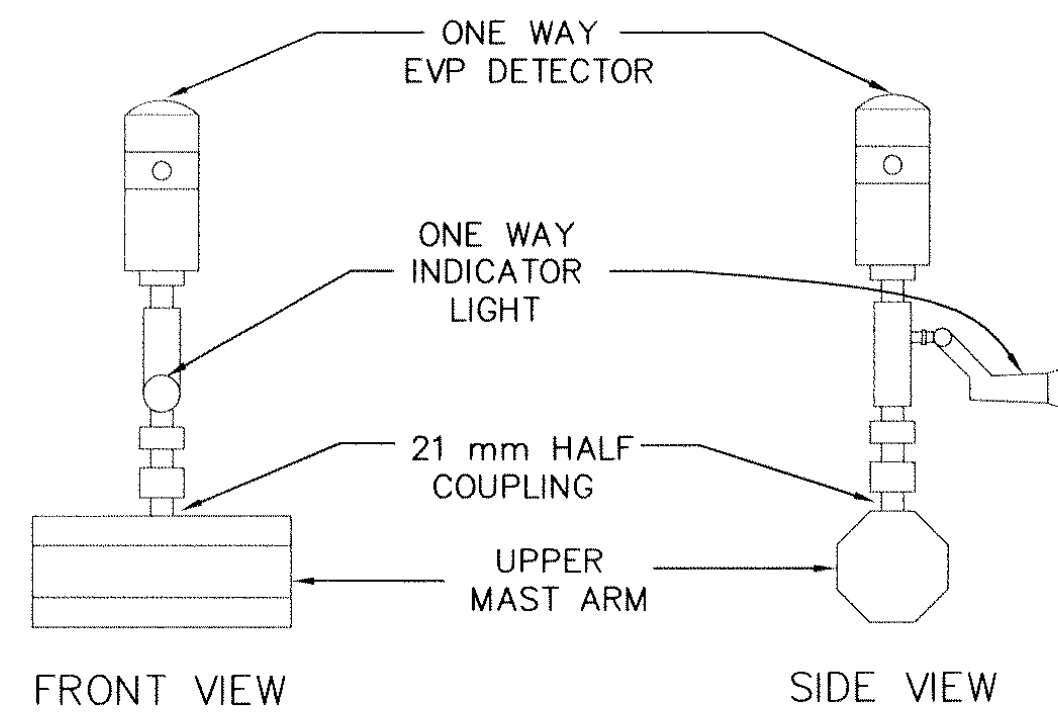
D-1, D-3; 120" x 24", 3.0" Radius, 1.0" Border, White on Green "Pleasantview Dr" E Mod.

D-2, D-4

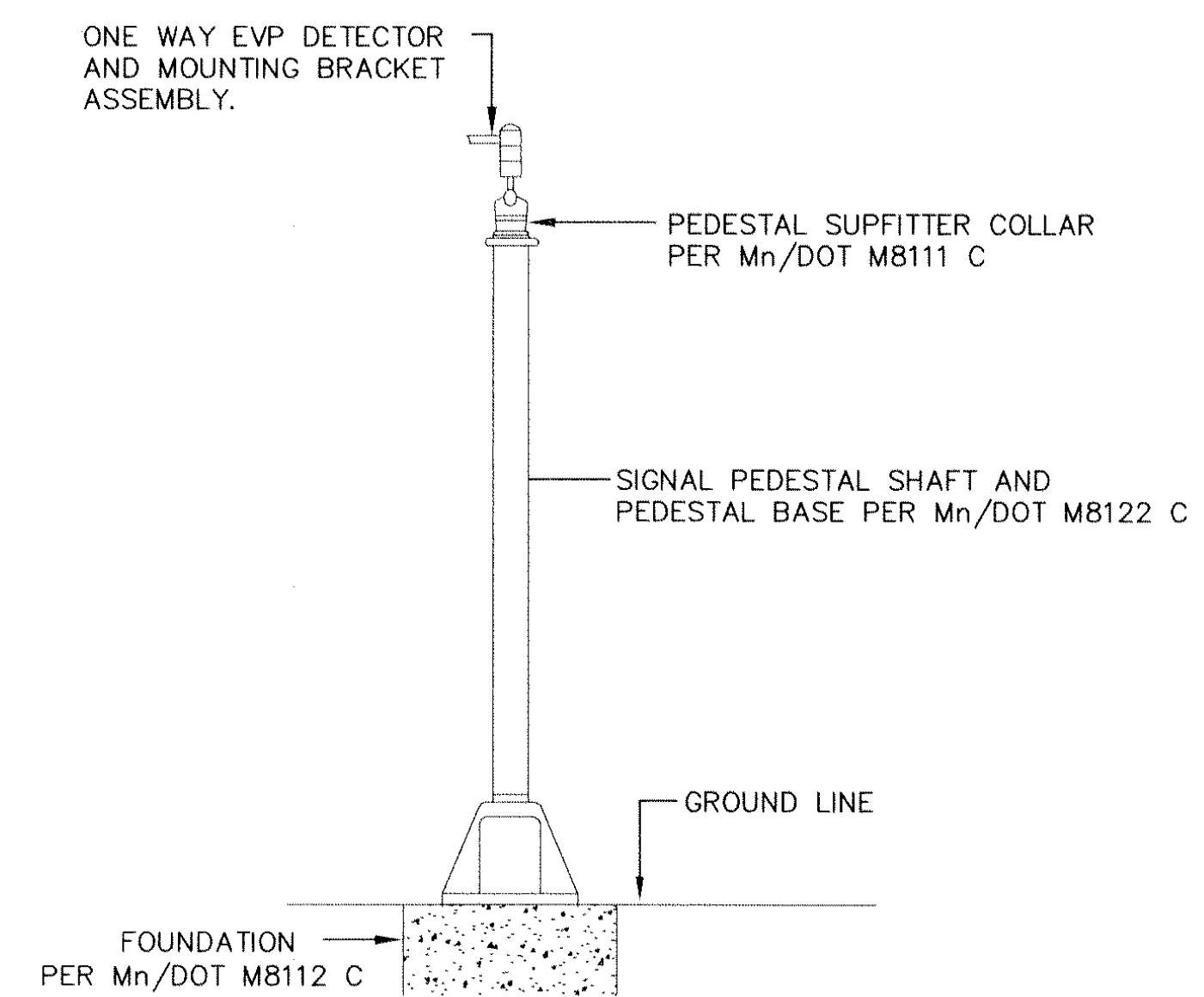


D-2, D-4; 84" x 24", 3.0" Radius, 1.0" Border, White on Green "Highway 10" E Mod.

EVP DETECTOR AND LIGHT MOUNTING DETAIL ON MAST ARM



PEDESTAL POLE MOUNTED EVP DETECTOR DETAIL



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Date: August 27, 2001 Name: John M Gray, P.E. Lic. No. 22457



ANOKA & RAMSEY COUNTIES, MINNESOTA
CITIES OF MOUNDS VIEW & SPRING LAKE PARK

TRAFFIC SIGNAL SYSTEM SIGNING AND EVP DETAILS
CSAH 10 AT PLEASANTVIEW DRIVE

FILE NO. AANOKC0105.00
DATE 08/27/01

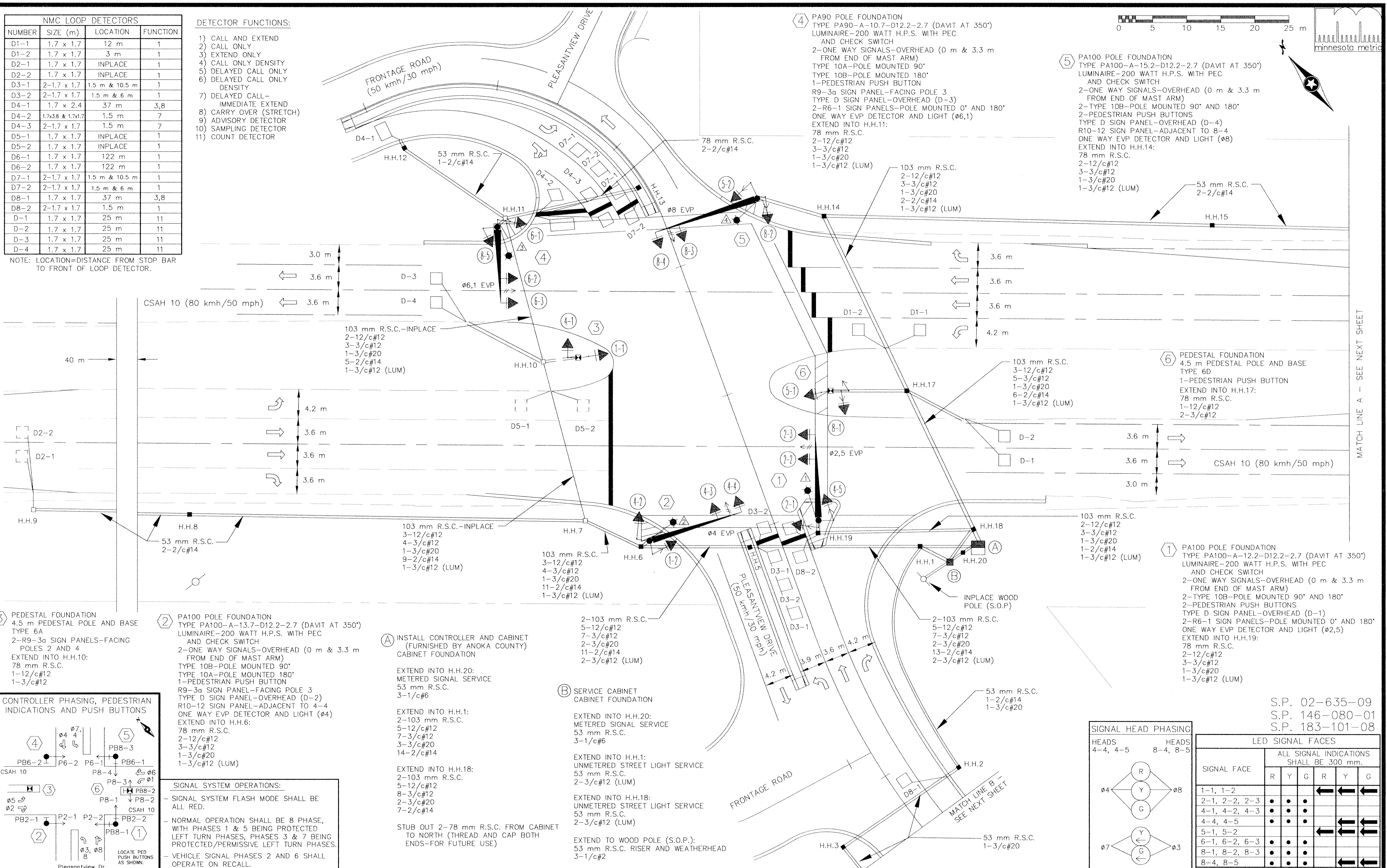
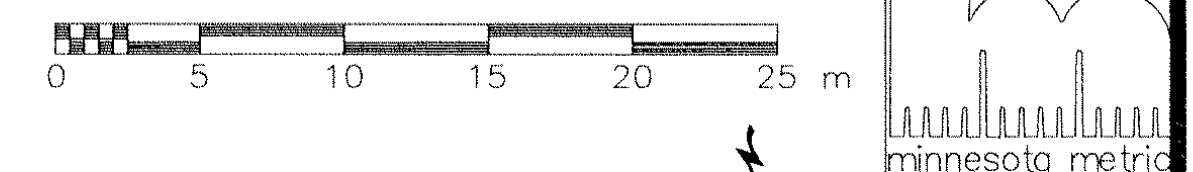
46
64

NMC LOOP DETECTORS			
NUMBER	SIZE (m)	LOCATION	FUNCTION
D1-1	1.7 x 1.7	12 m	1
D1-2	1.7 x 1.7	3 m	1
D2-1	1.7 x 1.7	INPLACE	1
D2-2	1.7 x 1.7	INPLACE	1
D3-1	2-1.7 x 1.7	1.5 m & 10.5 m	1
D3-2	2-1.7 x 1.7	1.5 m & 6 m	1
D4-1	1.7 x 2.4	37 m	3,8
D4-2	1.7x3.6 & 1.7x1.7	1.5 m	7
D4-3	2-1.7 x 1.7	1.5 m	7
D5-1	1.7 x 1.7	INPLACE	1
D5-2	1.7 x 1.7	INPLACE	1
D6-1	1.7 x 1.7	122 m	1
D6-2	1.7 x 1.7	122 m	1
D7-1	2-1.7 x 1.7	1.5 m & 10.5 m	1
D7-2	2-1.7 x 1.7	1.5 m & 6 m	1
D8-1	1.7 x 1.7	37 m	3,8
D8-2	2-1.7 x 1.7	1.5 m	1
D-1	1.7 x 1.7	25 m	11
D-2	1.7 x 1.7	25 m	11
D-3	1.7 x 1.7	25 m	11
D-4	1.7 x 1.7	25 m	11

NOTE: LOCATION=DISTANCE FROM STOP BAR TO FRONT OF LOOP DETECTOR.

DETECTOR FUNCTIONS:

- 1) CALL AND EXTEND
- 2) CALL ONLY
- 3) EXTEND ONLY
- 4) CALL ONLY DENSITY
- 5) DELAYED CALL ONLY
- 6) DELAYED CALL ONLY DENSITY
- 7) DELAYED CALL- IMMEDIATE EXTEND
- 8) CARRY OVER (STRETCH)
- 9) ADVISORY DETECTOR
- 10) SAMPLING DETECTOR
- 11) COUNT DETECTOR



3 PEDESTAL FOUNDATION
4.5 m PEDESTAL POLE AND BASE
TYPE 6A
2-R9-3a SIGN PANELS-FACING
POLES 2 AND 4
EXTEND INTO H.H.10:
78 mm R.S.C.
1-12/c#12
1-3/c#12

2 PA100 POLE FOUNDATION
TYPE PA100-A-13.7-D12.2-2.7 (DAVIT AT 350°)
LUMINAIRE-200 WATT H.P.S. WITH PEC
AND CHECK SWITCH
2-ONE WAY SIGNALS-OVERHEAD (0 m & 3.3 m
FROM END OF MAST ARM)
TYPE 10A-POLE MOUNTED 90°
TYPE 10B-POLE MOUNTED 180°
1-PEDESTRIAN PUSH BUTTON
R9-3a SIGN PANEL-FACING POLE 3
TYPE D SIGN PANEL-OVERHEAD (D-2)
R10-12 SIGN PANEL-ADJACENT TO 4-4
ONE WAY EVP DETECTOR AND LIGHT (ø4)
EXTEND INTO H.H.6:
78 mm R.S.C.
2-12/c#12
3-3/c#12
1-3/c#20
1-3/c#12 (LUM)

A INSTALL CONTROLLER AND CABINET
(FURNISHED BY ANOKA COUNTY)
CABINET FOUNDATION
EXTEND INTO H.H.20:
METERED SIGNAL SERVICE
53 mm R.S.C.
3-1/c#6

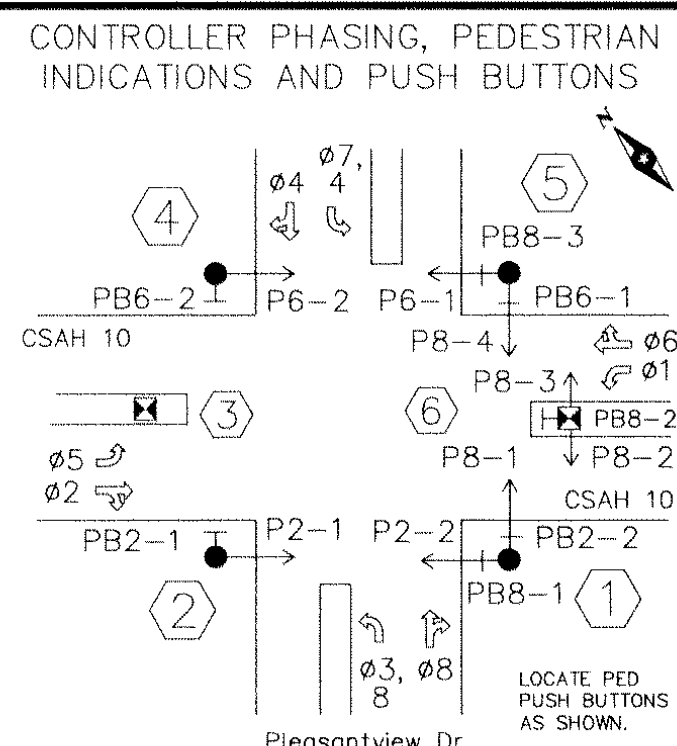
B SERVICE CABINET
CABINET FOUNDATION
EXTEND INTO H.H.20:
METERED SIGNAL SERVICE
53 mm R.S.C.
3-1/c#6

EXTEND INTO H.H.1:
2-103 mm R.S.C.
5-12/c#12
7-3/c#12
2-3/c#20
11-2/c#14
2-3/c#12 (LUM)

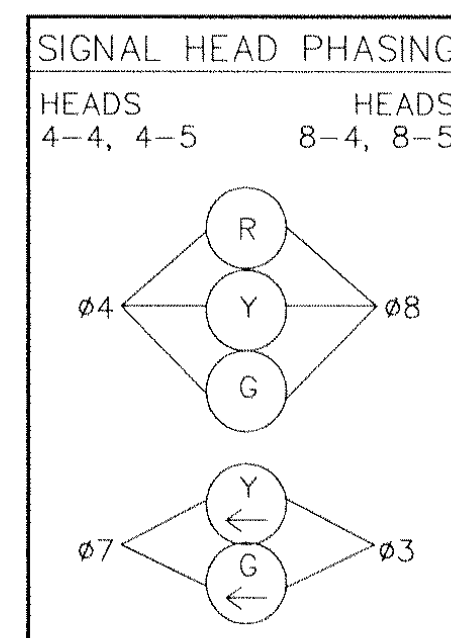
EXTEND INTO H.H.18:
2-103 mm R.S.C.
5-12/c#12
8-3/c#12
2-3/c#20
7-2/c#14

EXTEND INTO H.H.18:
UNMETERED STREET LIGHT SERVICE
53 mm R.S.C.
2-3/c#12 (LUM)

EXTEND TO WOOD POLE (S.O.P.):
53 mm R.S.C. RISER AND WEATHERHEAD
3-1/c#2



SIGNAL SYSTEM OPERATIONS:
- SIGNAL SYSTEM FLASH MODE SHALL BE ALL RED.
- NORMAL OPERATION SHALL BE 8 PHASE, WITH PHASES 1 & 5 BEING PROTECTED LEFT TURN PHASES, PHASES 3 & 7 BEING PROTECTED/PERMISSIVE LEFT TURN PHASES.
- VEHICLE SIGNAL PHASES 2 AND 6 SHALL OPERATE ON RECALL.



SIGNAL FACE	LED SIGNAL FACES					
	ALL SIGNAL INDICATIONS SHALL BE 300 mm.					
	R	Y	G	R	Y	G
1-1, 1-2	•	•	•	•	•	•
2-1, 2-2, 2-3	•	•	•	•	•	•
4-1, 4-2, 4-3	•	•	•	•	•	•
4-4, 4-5	•	•	•	•	•	•
5-1, 5-2	•	•	•	•	•	•
6-1, 6-2, 6-3	•	•	•	•	•	•
8-1, 8-2, 8-3	•	•	•	•	•	•
8-4, 8-5	•	•	•	•	•	•

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DESIGNER: JMG
CHECKED BY: JMG

NO.	BY	DATE	REVISIONS

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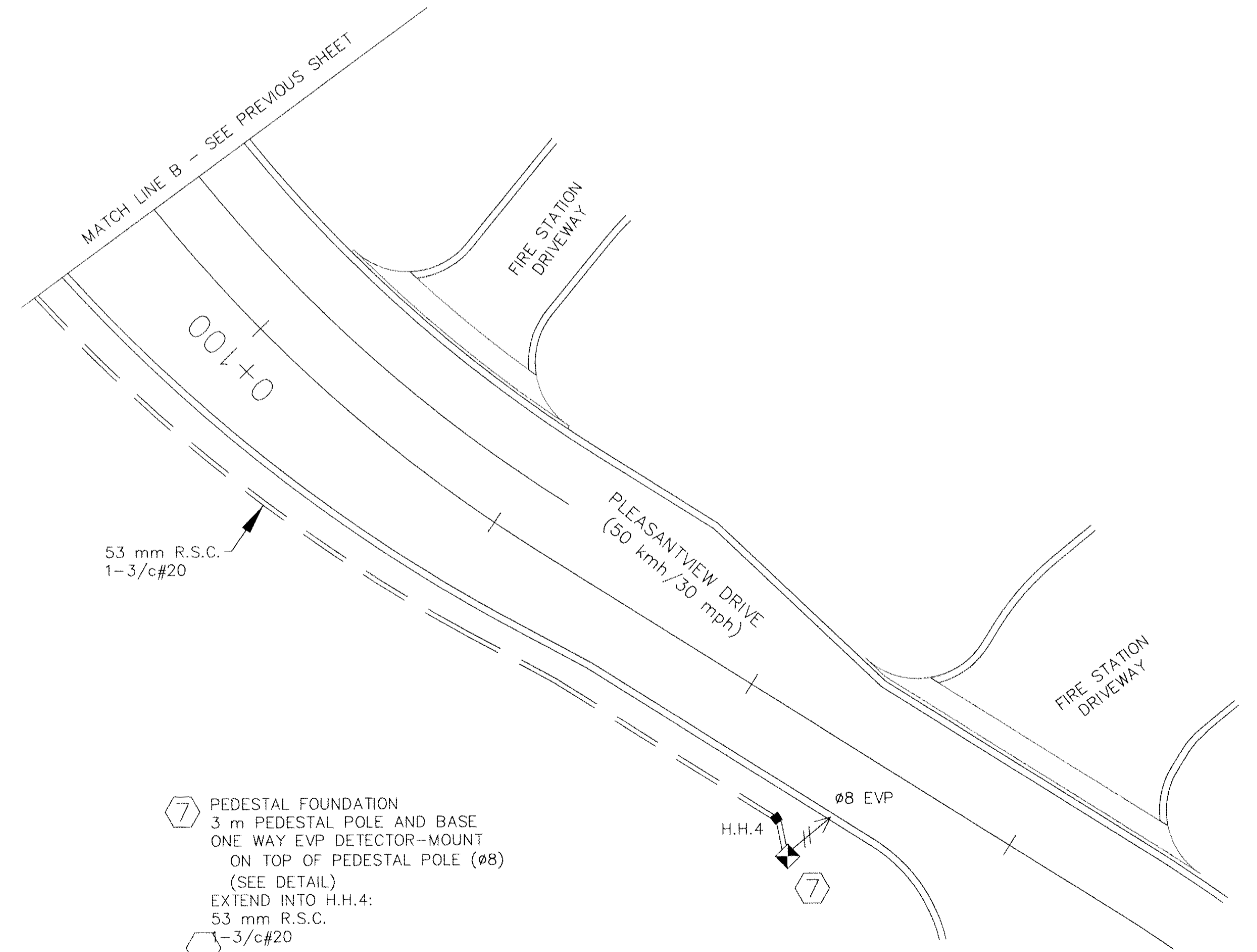
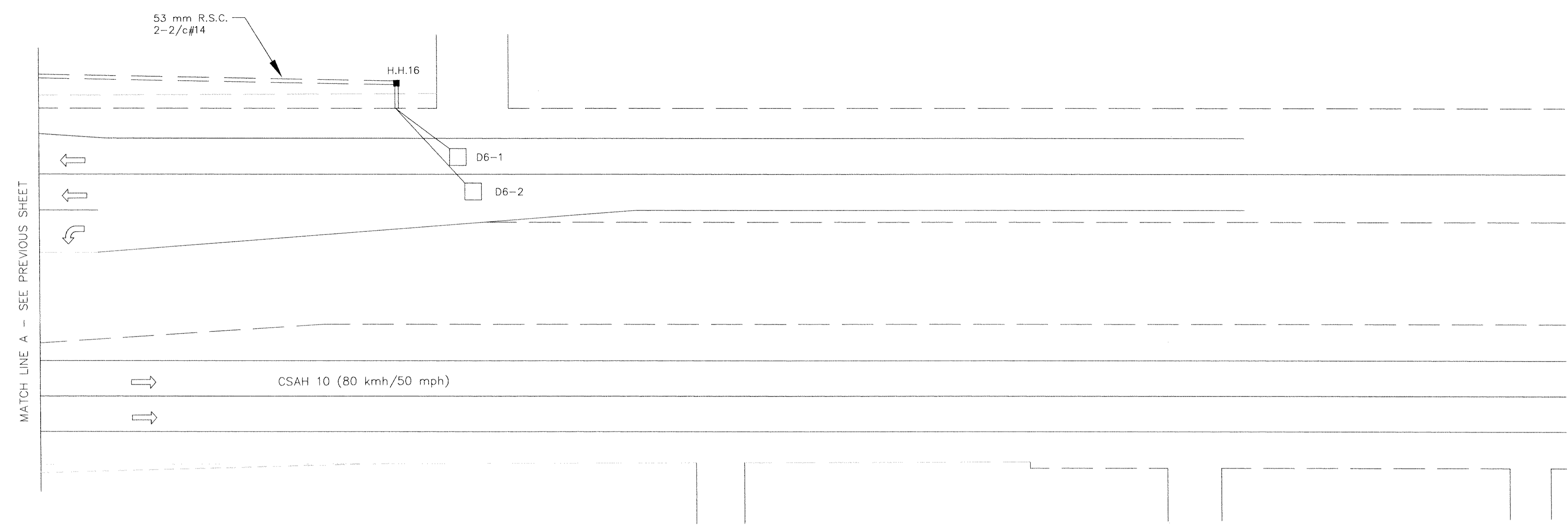
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Name: John M Gray, P.E.
Lic. No. 22457
Date: August 27, 2001



ANOKA & RAMSEY COUNTIES, MINNESOTA
CITIES OF MOUNDS VIEW & SPRING LAKE PARK

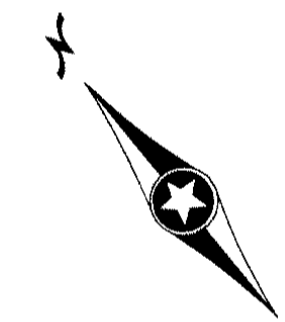
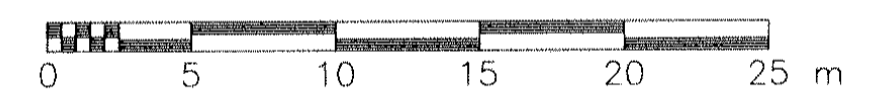
TRAFFIC SIGNAL SYSTEM INTERSECTION LAYOUT
CSAH 10 AT PLEASANTVIEW DRIVE

FILE NO. ANOKC0105.00
DATE 08/27/01
47
64



NOTES:

- 1) LOCATION OF POLES, CONTROLLER CABINET, SERVICE CABINET, LOOP DETECTORS AND HANDHOLES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 2) SEE SPECIAL PROVISIONS FOR ANOKA COUNTY FURNISHED MATERIALS.
- 3) LOOP DETECTOR WIRES SHALL BE CROSS-LINKED POLYETHYLENE (XLP) IN 19 mm N.M.C. SEE SPECIAL PROVISIONS AND DETAILS.
- 4) NEW HANDHOLES SHALL BE PVC HANDHOLES WITH METAL FRAMES AND COVERS, PER Mn/DOT STANDARD PLATE NO. M8114A.
- 5) EACH SIGNAL FACE SHALL HAVE BACKGROUND SHIELD.
- 6) EACH PEDESTRIAN INDICATION SHALL BE A ONE SECTION HAND/WALKING PERSON INDICATION. SEE SPECIAL PROVISIONS.
- 7) ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL BE LED. SEE SPECIAL PROVISIONS.
- 8) CONTRACTOR SHALL PROVIDE EXTENDED BRACKETS FOR EACH POLE MOUNTED VEHICLE AND PEDESTRIAN SIGNAL FACE.
- 9) A 21 mm HALF COUPLING, 21 mm PIPE NIPPLE AND CONDUIT OUTLET BODY SHALL BE FURNISHED AND INSTALLED 1.8 m FROM END OF EACH MAST ARM (FOR EVP).
- 10) SEE SPECIAL PROVISIONS, DETAILS AND REMAINDER OF PLANS FOR INFORMATION REGARDING SIGN PANELS, STRIPING AND CONCRETE WALKWAY TO BE FURNISHED AND INSTALLED BY CONTRACTOR.
- 11) CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL TRAFFIC SIGNAL MATERIALS WITH ROAD CONSTRUCTION TO BE COMPLETED BY OTHERS.



7 PEDESTAL FOUNDATION
 3 m PEDESTAL POLE AND BASE
 ONE WAY EVP DETECTOR-MOUNT
 ON TOP OF PEDESTAL POLE (Ø8)
 (SEE DETAIL)
 EXTEND INTO H.H.4:
 53 mm R.S.C.
 1-3/c#20

S.P. 02-635-09
 S.P. 146-080-01
 S.P. 183-101-08

P:\0263509\SEH-Signal\10bbs2.dwg 04/25/2002 09:17:51 AM CDT

DRAWN BY:	JMG			
DESIGNER:	JMG			
CHECKED BY:	JMG			
DESIGN TEAM	NO.	BY	DATE	REVISIONS

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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 LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 Name: John M Gray, P.E.
 Lic. No. 22457
 Date: August 27, 2001



ANOKA & RAMSEY COUNTIES, MINNESOTA
 CITIES OF MOUNDS VIEW & SPRING LAKE PARK

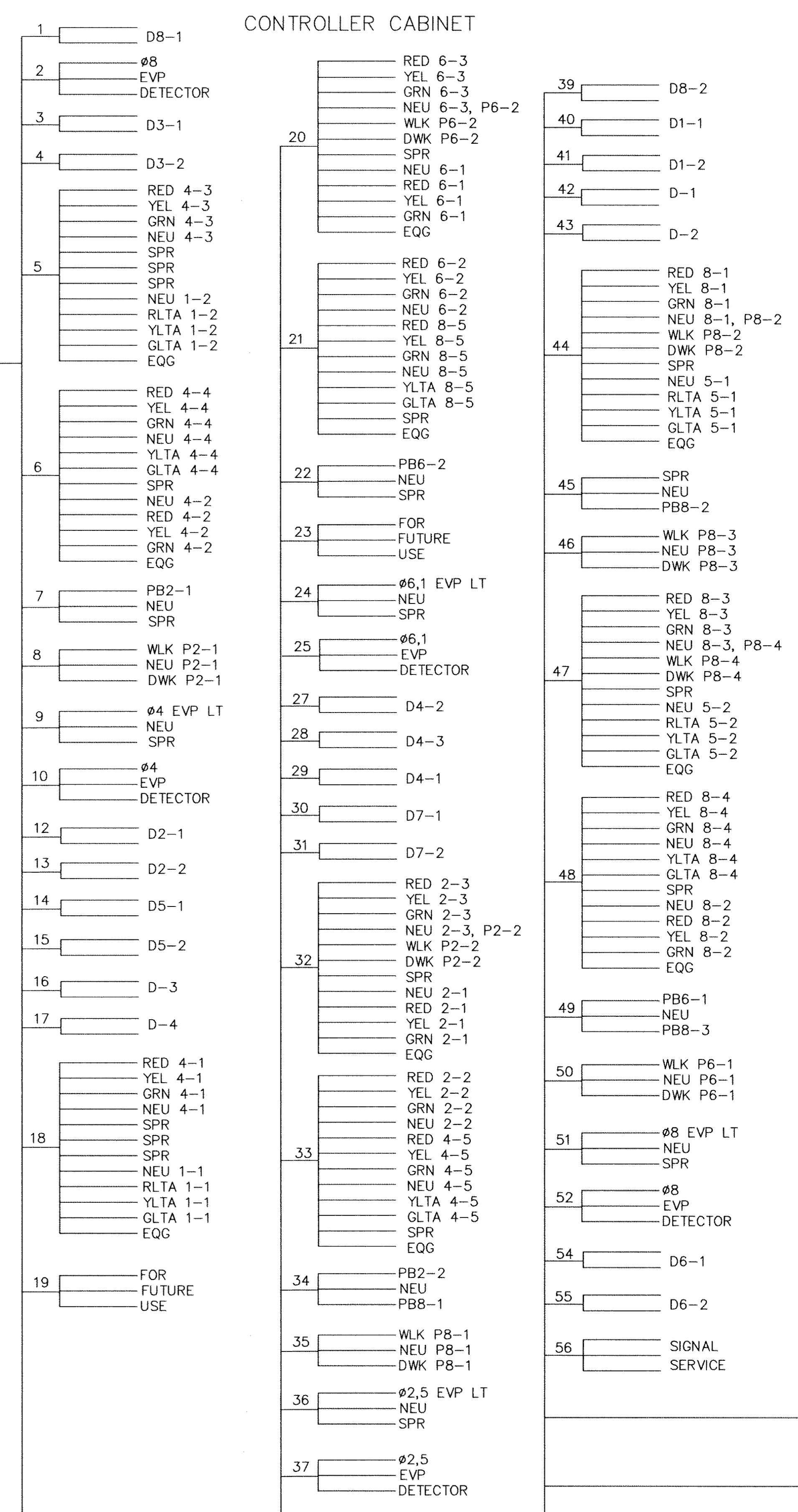
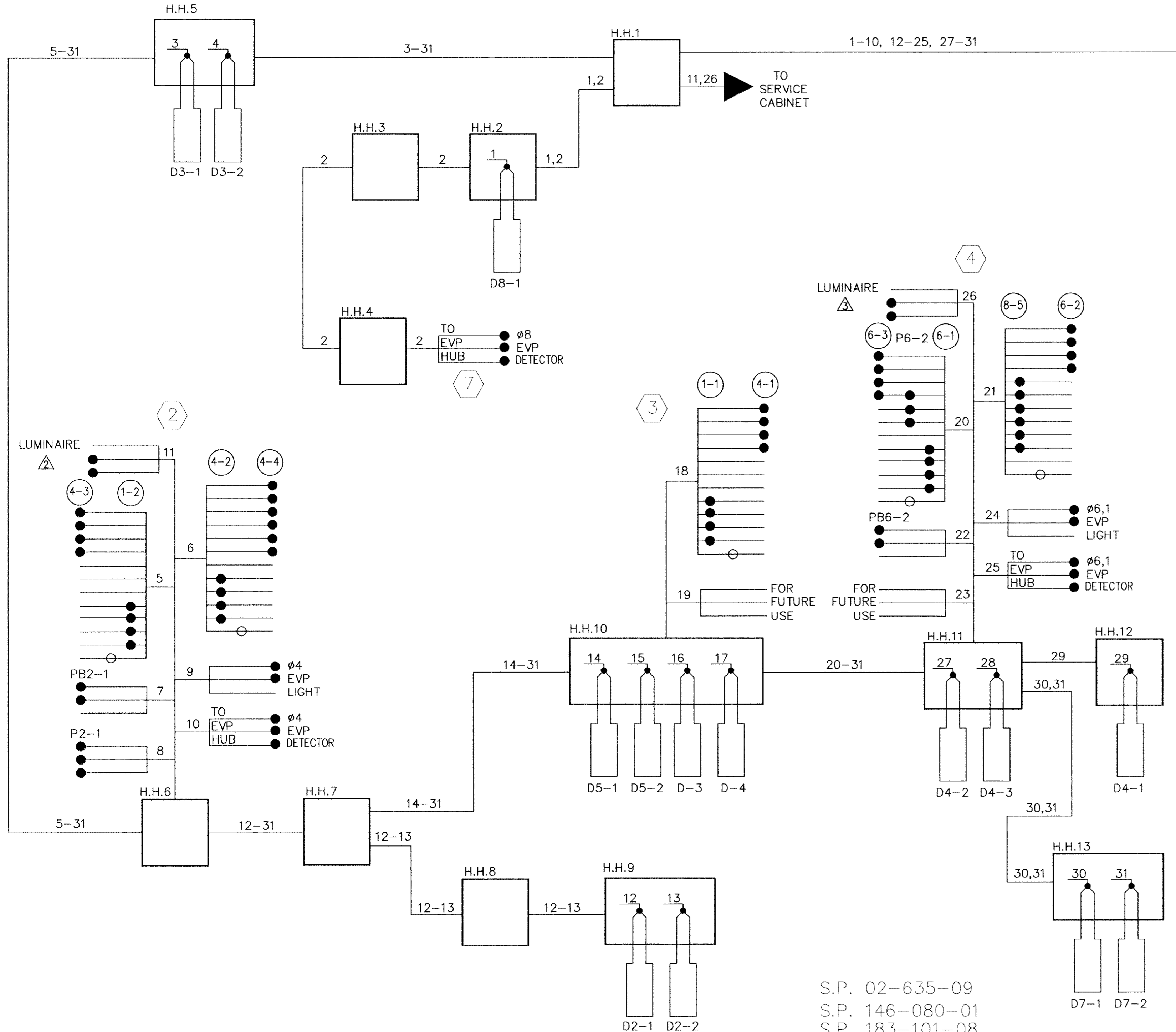
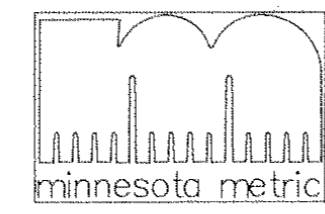
TRAFFIC SIGNAL SYSTEM INTERSECTION LAYOUT
 CSAH 10 AT PLEASANTVIEW DRIVE

FILE NO. AANOKC0105.00	48
DATE 08/27/01	64

CONDUCTOR COLOR CODING

R	BLK	2-1/c#4
O	WH	2-1/c#6
BL	WH	2-1/c#10
R/BLK	R	3/c#12
O/BLK	WH	3/c#12
BL/BLK	BLK	3/c#12
BLK/WH	BLK	3/c#12
BLK	BLK	3/c#12
Y/BLK	BLK	2/c#14
Y	CLEAR	2/c#14
WH		
G		
	Y	3/c#20
	BL	3/c#20
	O	3/c#20

NOTE:
ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED ABOVE.



S.P. 02-635-09
S.P. 146-080-01
S.P. 183-101-08

P:\0263509\SEH-Signal\10pinwire.dwg 04/25/2002 10:22:10 AM CDT

DRAWN BY:	JMG			
DESIGNER:	JMG			
CHECKED BY:	JMG			
DESIGN TEAM				
NO.	BY	DATE	REVISIONS	

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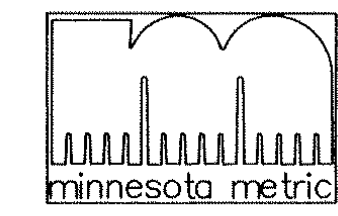
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Name: John M Gray, P.E.
Date: August 27, 2001 Lic. No. 22457



ANOKA & RAMSEY COUNTIES, MINNESOTA
CITIES OF MOUNDS VIEW & SPRING LAKE PARK

TRAFFIC SIGNAL SYSTEM
FIELD WIRING DIAGRAM
CSAH 10 AT PLEASANTVIEW DRIVE

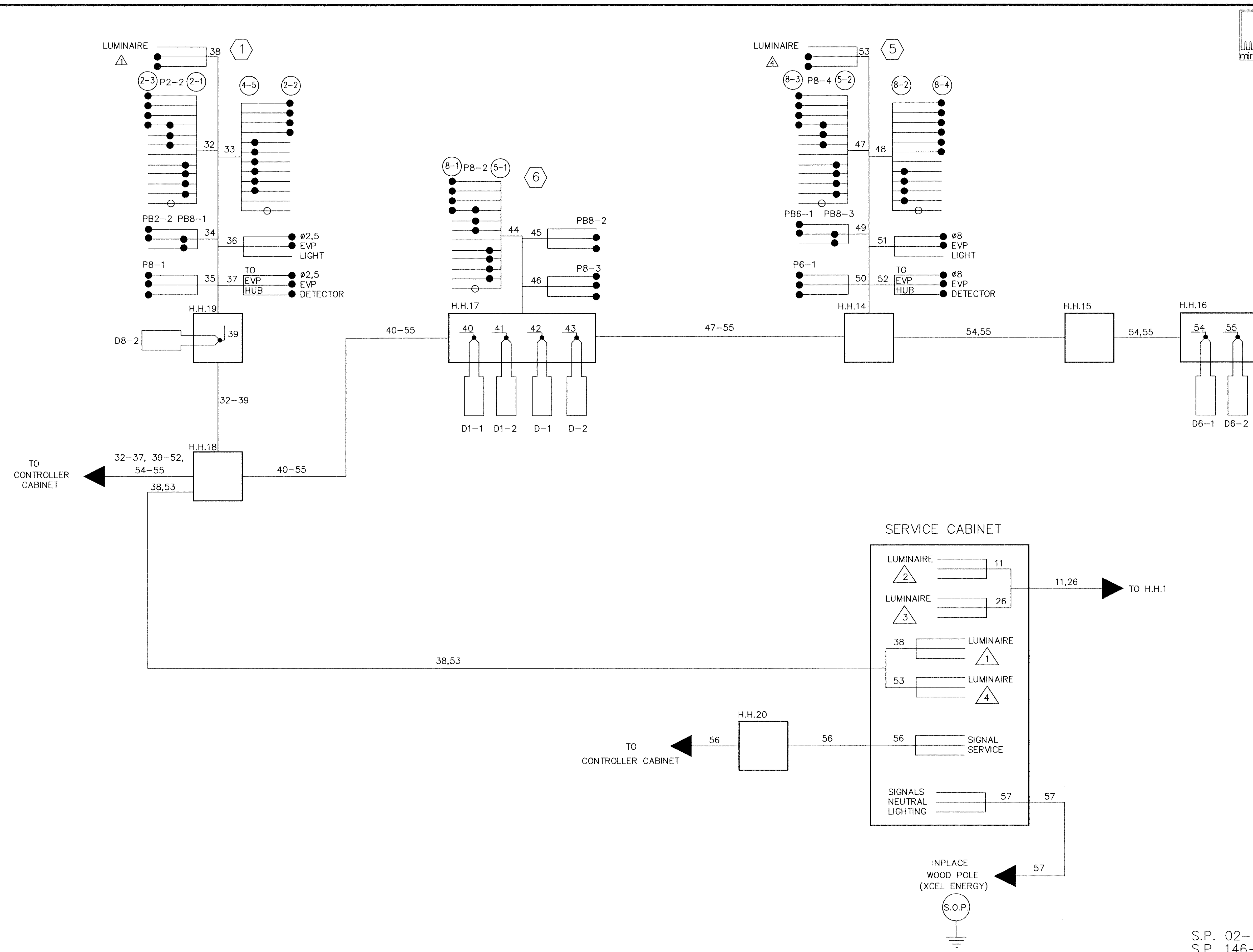
FILE NO.	AAONKCO105.00	49
DATE	08/27/01	64



CONDUCTOR COLOR CODING

R	BLK	2-1/c#4
O	WH	2-1/c#6
R/BLK	R	
O/BLK	WH	3/c#12
BL/BLK	BLK	
BLK/WH	BLK	
BLK	BLK	
Y/BLK	BLK	2/c#14
Y	CLEAR	
WH		
G		
	Y	
	BL	3/c#20
	O	

NOTE:
ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED ABOVE.



P:\0263509\SEH-Signal\10plwire.dwg 04/25/2002 10:06:03 AM CDT

DRAWN BY: JMG				
DESIGNER: JMG				
CHECKED BY: JMG				
DESIGN TEAM	NO.	BY	DATE	REVISIONS

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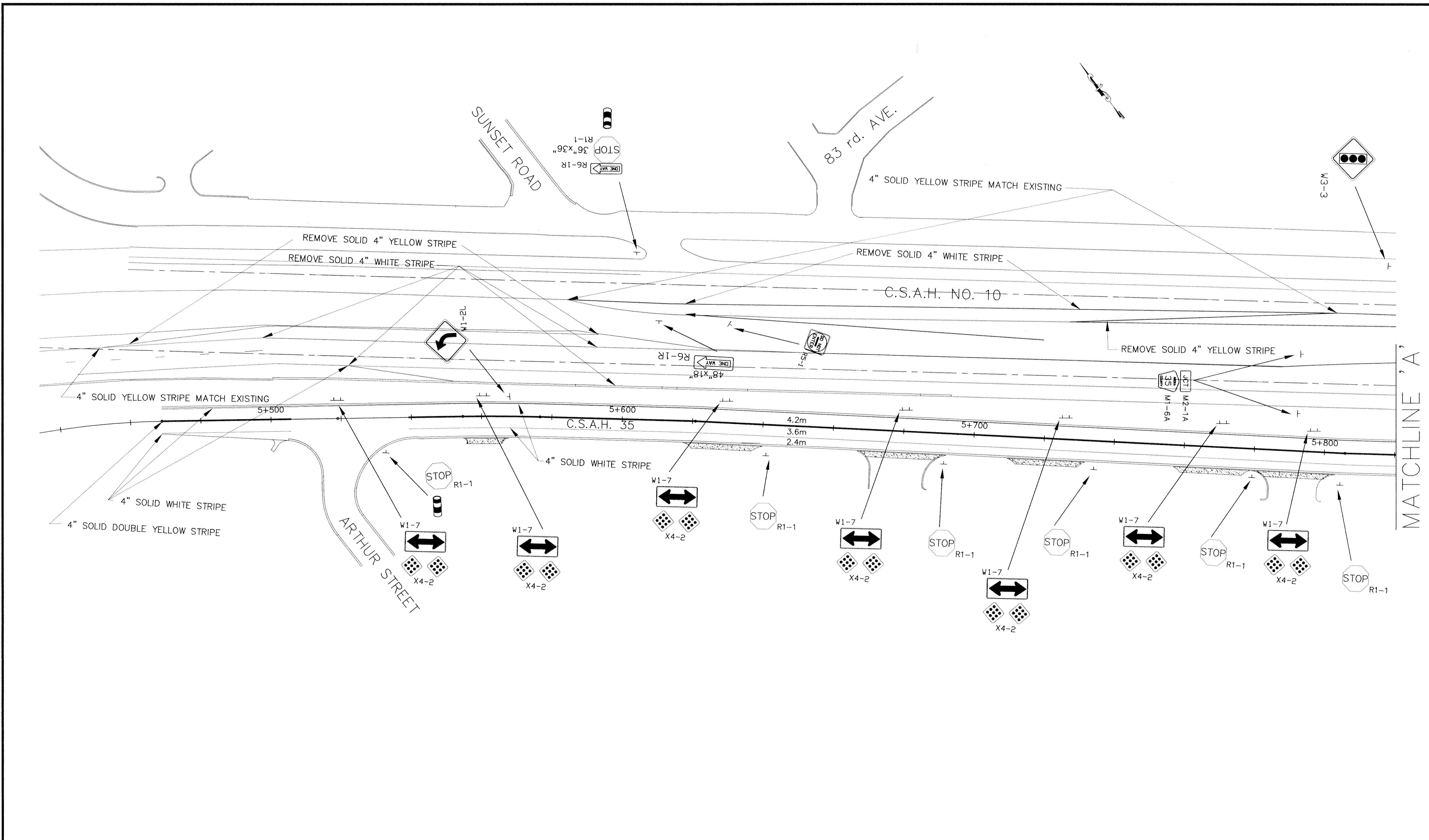


ANOKA & RAMSEY COUNTIES, MINNESOTA
CITIES OF MOUNDS VIEW & SPRING LAKE PARK

TRAFFIC SIGNAL SYSTEM
FIELD WIRING DIAGRAM
CSAH 10 AT PLEASANTVIEW DRIVE

FILE NO. AANOKC0105.00	50
DATE 08/27/01	64

S.P. 02-635-09
S.P. 146-080-01
S.P. 183-101-08



C.S.A.H. 35 (CENTRAL AVE.)

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: _____
 SIGNATURE: _____
 DATE: _____ LICENSE NO. _____

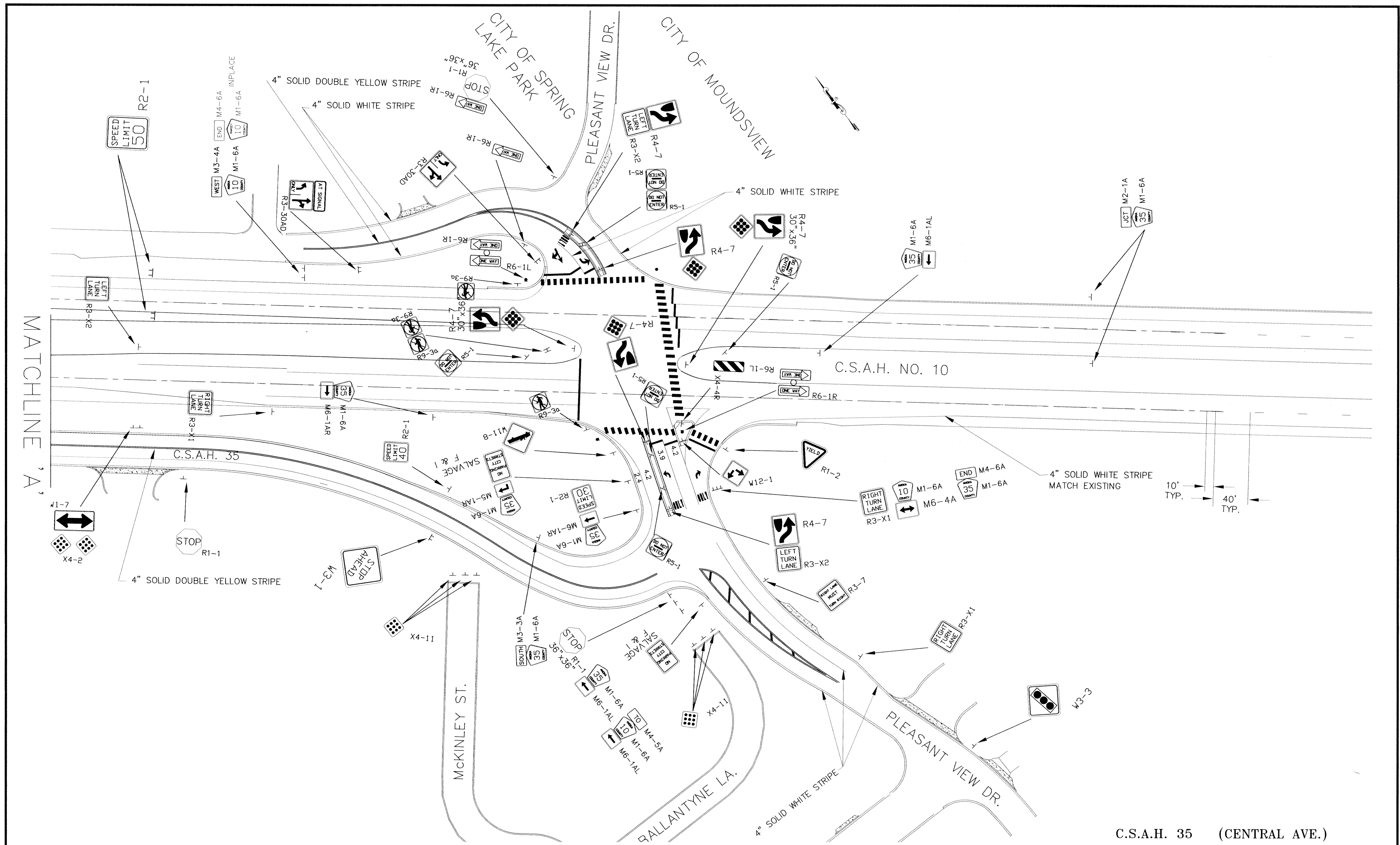
DRAWN BY: D.M. DATE: 08/01/01
 DESIGN BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____



ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09
 STATE AID PROJECT NO. 183-101-09
 STATE AID PROJECT NO. 146-080-01
 COUNTY PROJECT NO. _____

PERMANENT
 SIGN / STRIPE
 Sheet 51 of 64 Sheets



C.S.A.H. 35 (CENTRAL AVE.)

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.
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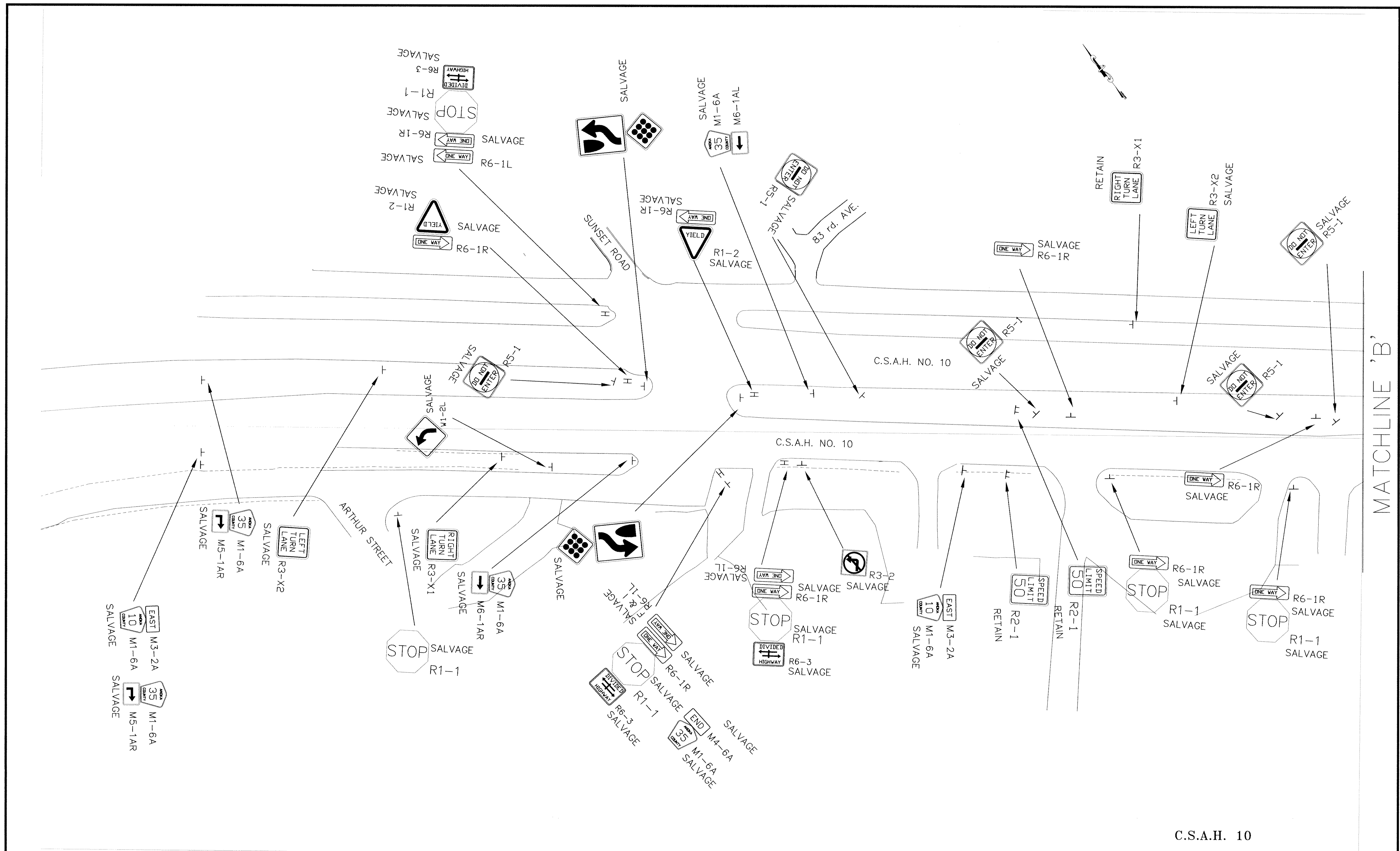
DRAWN BY: D. M. DATE: 08/01/01
 DESIGN BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____



ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09
 STATE AID PROJECT NO. 183-101-09
 STATE AID PROJECT NO. 146-080-01
 COUNTY PROJECT NO. _____

PERMANENT
 SIGN / STRIPE
 Sheet 52 of 64 Sheets



C.S.A.H. 10

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: _____
 SIGNATURE: _____
 DATE: _____ LICENSE NO. _____

DRAWN BY D. M. DATE 08/01/01
 DESIGN BY _____ DATE _____
 CHECKED BY _____ DATE _____



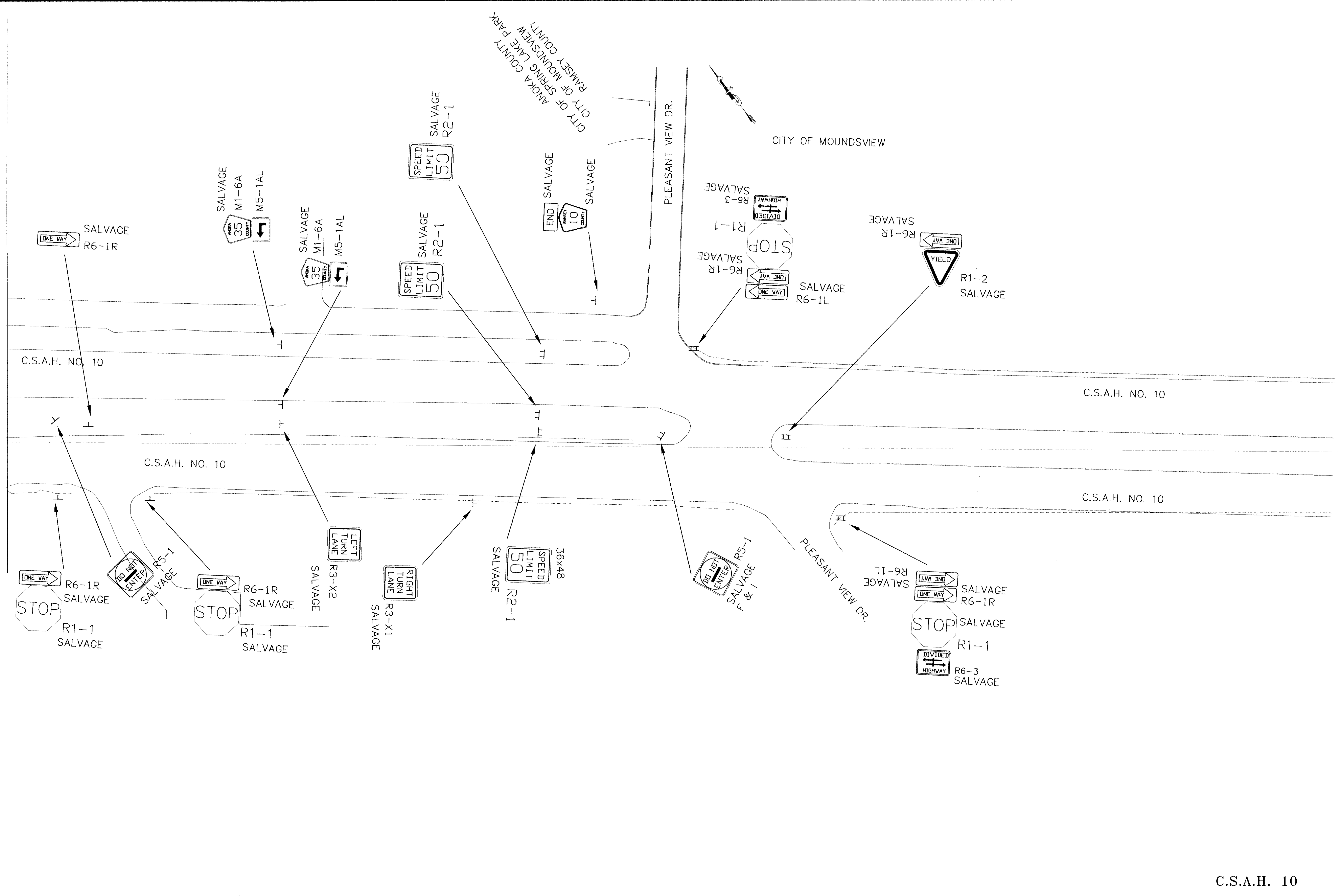
ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09
 STATE AID PROJECT NO. 183-101-09
 STATE AID PROJECT NO. 146-080-01
 COUNTY PROJECT NO. _____

SALVAGE SIGN
 C.S.A.H. 10

Sheet 53 of 64 Sheets

MATCHLINE 'B'



C.S.A.H. 10

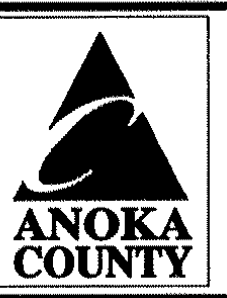
NO	DATE	BY	CKD	APPR	REVISION



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SIGNATURE: _____
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CHECKED BY _____ DATE _____



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09
STATE AID PROJECT NO. 183-101-09
STATE AID PROJECT NO. 146-080-01
COUNTY PROJECT NO. _____

SALVAGE SIGN
C.S.A.H. 10
Sheet 54 of 64 Sheets

M. U. T. C. D. CODE	SIZE	SIZE	INSERT	QTY	PANEL AREA		TOTAL SQ. FT.	TOTAL SQ. m	MOUNTING POST PER INSTALLATION	MOUNTING HEIGHT
					FT ²	m ²				
R1-1	30" x 30"	762mm X 762mm		8	6.25	0.580	50.00	4.645	1	7.0
R1-1	36" x 36"	914mm X 914mm		2	9.00	0.836	18.00	1.672	1	7.0
DELINEATOR	4"DIA x 15"	101.6mm DIA. X 38.1mm		4	1.31	0.122	5.24	0.487	①	
R1-2	36"x36"x36"	914mmX914mmX914mm		1	9.00	0.836	9.00	0.836	1	7.0
R2-1	24" x 30"	610mm X 762mm		1	5.00	0.464	5.00	0.464	1	7.0
R2-1	24" x 30"	610mm X 762mm		1	5.00	0.464	5.00	0.464	1	7.0
R2-1	36" x 48"	914mm X 1,219mm		2	12.00	1.115	24.00	2.230	2	7.0
R3-30 AD	36" x 30"	914mm X 762mm		2	7.50	0.697	15.00	1.394	1	7.0
R3-7	30" x 30"	762mm X 762mm		1	6.25	0.580	6.25	0.580	1	7.0
R3-X1	30" x 30"	762mm X 762mm		3	6.25	0.580	18.75	1.742	1	7.0
R3-X2	30" x 30"	762mm X 762mm		3	6.25	0.580	18.75	1.740	③	7.0
R4-7	24" x 30"	610mm X 762mm		6	5.00	0.464	30.00	2.784	1	7.0
R4-7	30" x 36"	762mm X 914mm		2	7.50	0.697	15.00	1.394	1	7.0
X4-2	24" x 24"	610mm X 610mm		5	4.00	0.317	20.00	1.585		
SUB-TOTAL							227.99	21.181		

M. U. T. C. D. CODE	SIZE	SIZE	INSERT	QTY	PANEL AREA		TOTAL SQ. FT.	TOTAL SQ. m	MOUNTING POST PER INSTALLATION	MOUNTING HEIGHT
					FT ²	m ²				
R5-1	30" x 30"	762mm X 762mm		7	6.25	0.580	43.75	4.064	1	7.0
R6-1R	36" x 12"	914mm X 305mm		5	3.00	0.279	15.00	1.395	1	7.0
R6-1L	36" x 12"	914mm X 305mm		2	3.00	0.279	6.00	0.558	1	7.0
R6-1L	48" x 18"	1,216.9mm X 457mm		1	6.00	0.557	6.00	0.557	2	7.0
R9-3a	18" x 18"	457mm X 457mm		4	2.25	0.209	9.00	0.836	1	7.0
SUB-TOTAL (COLUMN 2)							79.75	7.409		
SUB-TOTAL (COLUMN 1)							227.99	21.181		
TOTAL							307.74	28.59		

- ① MOUNTED BELOW R1-1 (2)
- ② MOUNTED BELOW R4-7 (2)
- ③ MOUNTED BACK TO BACK
- ④ 2 MOUNTED BACK TO BACK ON SIGNAL POLE (1 EA.)
- ⑤ 2 MOUNTED BACK TO BACK
- ⑥ MOUNTED ABOVE CITY NO PARKING SIGN
- ⑦ MOUNTED ABOVE 30 MPH SPEED SIGN

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, INCLUDING THE FIELD MANUAL DATED JANUARY 2001

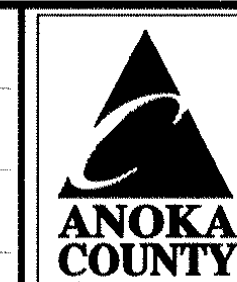
NO	DATE	BY	CKD	APPR	REVISION



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: _____
SIGNATURE: _____
DATE: _____ LICENSE NO. _____

DRAWN BY: D. M. DATE: 08/01/01
DESIGN BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09
STATE AID PROJECT NO. 183-101-09
STATE AID PROJECT NO. 146-080-01
COUNTY PROJECT NO. _____

PERMANENT
SIGNING QUANTITIES
Sheet 55 of 64 Sheets

M. U. T. C. D. CODE	SIZE	SIZE	INSERT	QTY	PANEL AREA		TOTAL Sq. FT.	TOTAL Sq. m	MOUNTING POST PER INSTALLATION	MOUNTING HEIGHT	
					FT ²	m ²					
W1-7	48"x24"	1,219mm X 610mm		8	4.00	0.372	32.00	2.973	2	7.0	
X4-2	18" x 18"	457mm X 457mm		16	2.25	0.209	36.00	3.345			
W1-2L	36" x 36"	914mm X 914mm		1	9.00	0.836	9.00	0.836	1	7.0	
W3-1	36" x 36"	914mm X 914mm		1	9.00	0.836	9.00	0.836	1	7.0	
W3-3	36" x 36"	914mm X 914mm		1	9.00	0.836	9.00	0.836	1	7.0	
W11-8	36" x 36"	914mm X 914mm		1	9.00	0.836	9.00	0.836	1	7.0	
X4-11	18" x 18"	457mm X 457mm		6	2.25	0.209	13.50	1.254	1	4.0	
	24" x 12"	610mm X 305mm		1	2.00	0.186	2.00	0.186			
M1-6A	24" x 24"	610mm X 610mm		3	4.00	0.372	12.00	1.115	1	7.0	
	21" x 15"	530mm X 380mm		1	2.20	0.204	2.20	0.204			
				1	2.20	0.204	2.20	0.204			
	21" x 15"	530mm X 380mm		2	2.20	0.204	4.40	0.409			
	24" x 12"	610mm X 305mm		1	2.00	0.186	2.00	0.186			
M1-6A	24" x 24"	610mm X 610mm		11	4.00	0.372	44.00	4.087	1	7.0	
	21" x 15"	530mm X 380mm		1	2.00	0.186	2.00	0.186			
				2	2.20	0.204	4.40	0.409	⑥		
				1	2.20	0.204	2.20	0.204			
				2	2.20	0.204	4.40	0.409			
				2	2.20	0.204	4.40	0.409	⑦		
SUB-TOTAL (COLUMN 3)							203.70	18.925			
SUB-TOTAL (PAGE 1)							307.74	28.59			
TOTAL							511.44	47.515			

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, INCLUDING THE FIELD MANUAL DATED JAN. 2001

- ① MOUNTED BELOW R1-1 (2)
- ② MOUNTED BELOW R4-7 (2)
- ③ MOUNTED BACK TO BACK
- ④ 2 MOUNTED BACK TO BACK ON SIGNAL POLE (1 EA.)
- ⑤ 2 MOUNTED BACK TO BACK
- ⑥ MOUNTED ABOVE CITY NO PARKING SIGN
- ⑦ MOUNTED ABOVE 30 MPH SPEED SIGN

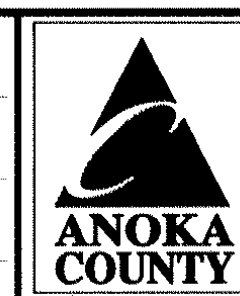
NO	DATE	BY	CKD	APPR	REVISION



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PRINT NAME: _____
SIGNATURE: _____
DATE: _____ LICENSE NO. _____

DRAWN BY: D. M. DATE: 08/01/01
DESIGN BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09
STATE AID PROJECT NO. 183-101-09
STATE AID PROJECT NO. 146-080-01
COUNTY PROJECT NO. _____

PERMANENT
SIGNING QUANTITIES
Sheet 56 of 64 Sheets

PAVEMENT MARKING AND SIGNING QUANTITIES

PAINT

	4"/100mm	4"/100mm	4"/100mm	4"/100mm	24"/600mm
	SOLID YELLOW	DOUBLE YELLOW	SOLID WHITE	SKIP WHITE	SOLID YELLOW
LIN. FT.	1695	2439	6120	200	80
LIN. m	516.5	243.2	1865.2	61.0	24.4

PAINT REMOVAL

	4"/100mm	4"/100mm
	SOLID WHITE	SOLID YELLOW
LIN. FT.	718	924
LIN. m	218.7	281.4

SIGNS

F & I
SIGN PANEL
501.04 SQ.FT.
46.5 SQ. m

SALVAGE
SIGN PANEL
47

POLY PRE FORM

	24" / 600mm	36" / 900mm
	SOLID WHITE	SOLID WHITE
LIN. FT.	185	283
LIN. m	56.5	86.3

POLY-PRE FORM PAVEMENT MESSAGE

	ONLY	LEFT ARROW	RIGHT ARROW	THRU/RIGHT ARROW
EA.	3	2	1	1

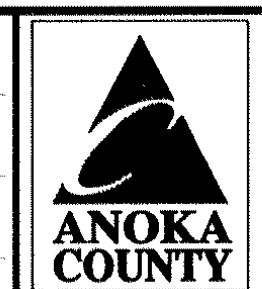
PAINT REMOVAL
PERMANENT PAINT
POLY-PRE FORM
F&I / SALVAGE SIGNS

NO	DATE	BY	CKD	APPR	REVISION



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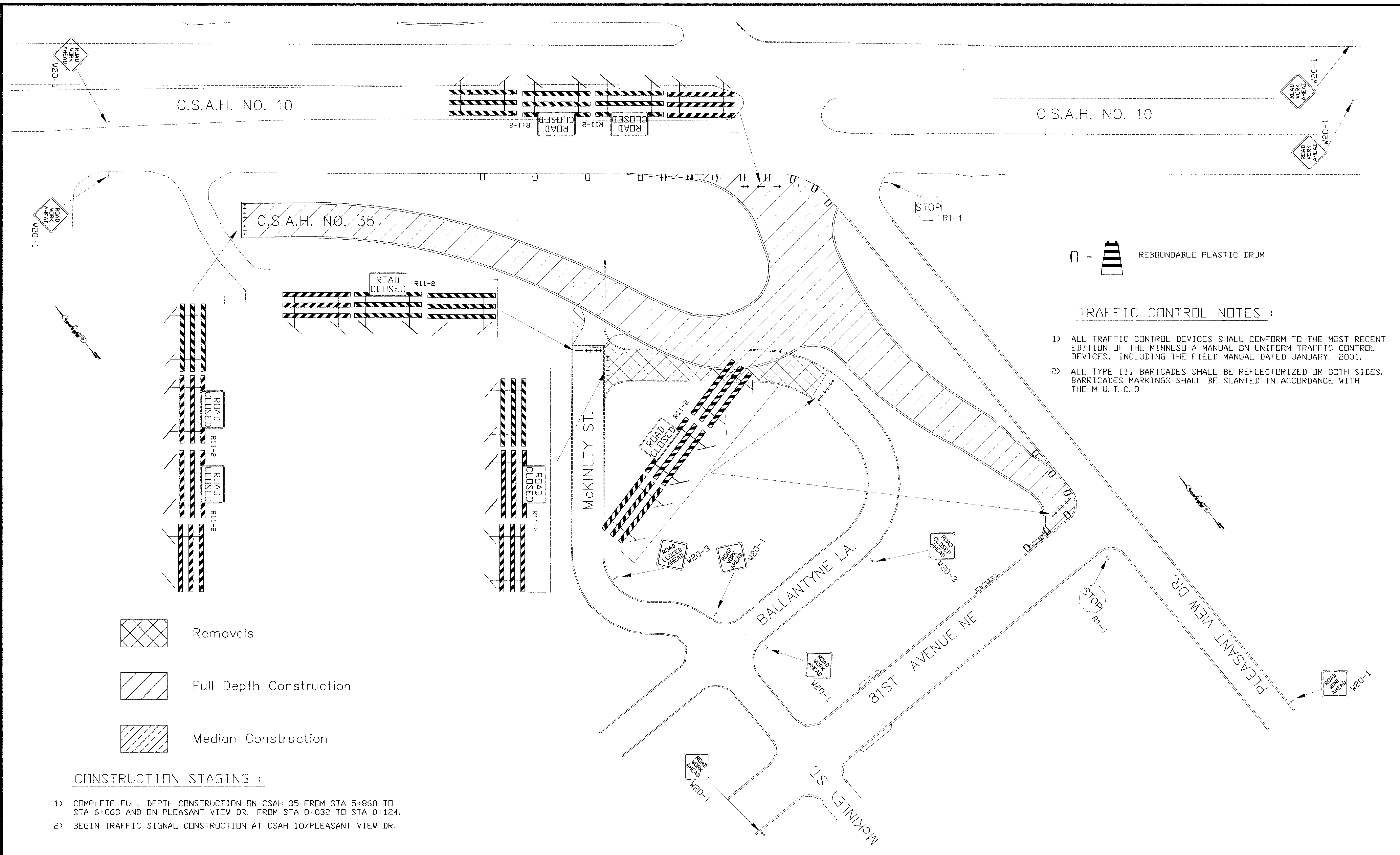
DRAWN BY D. M. DATE 08/01/01
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 CHECKED BY _____ DATE _____



ANOKA COUNTY
HIGHWAY DEPT.

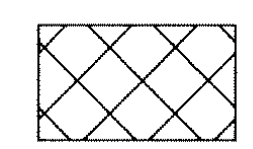
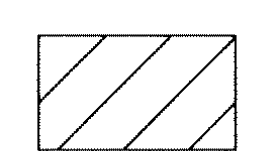
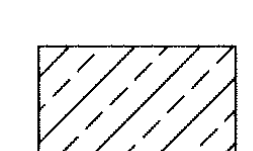
STATE PROJECT NO. 02-635-09
 STATE AID PROJECT NO. 183-101-09
 STATE AID PROJECT NO. 146-080-01
 COUNTY PROJECT NO. _____

PAY ITEMS
 Sheet 57 of 64 Sheets



 = REBOUNDABLE PLASTIC DRUM

- TRAFFIC CONTROL NOTES :**
- 1) 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.
 - 2) ALL TYPE III BARRICADES SHALL BE REFLECTORIZED ON BOTH SIDES. BARRICADES MARKINGS SHALL BE SLANTED IN ACCORDANCE WITH THE M. U. T. C. D.

-  Removals
-  Full Depth Construction
-  Median Construction

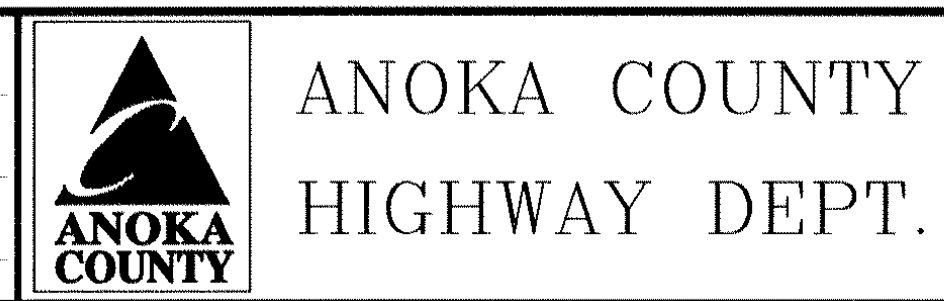
- CONSTRUCTION STAGING :**
- 1) COMPLETE FULL DEPTH CONSTRUCTION ON CSAH 35 FROM STA 5+860 TO STA 6+063 AND ON PLEASANT VIEW DR. FROM STA 0+032 TO STA 0+124.
 - 2) BEGIN TRAFFIC SIGNAL CONSTRUCTION AT CSAH 10/PLEASANT VIEW DR.

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: _____
 SIGNATURE: _____
 DATE: _____ LICENSE NO. _____

DRAWN BY: _____ ST. DATE: 9/27/01
 DESIGN BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____



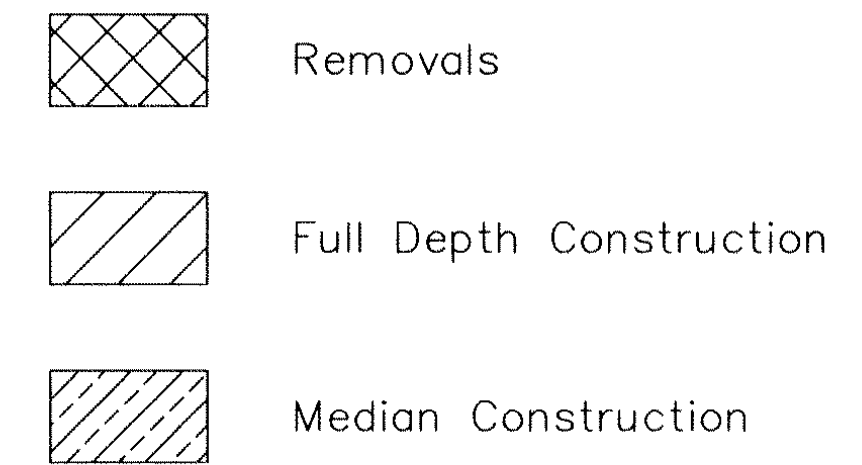
STATE PROJECT NO. 02-635-09
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. _____

STAGE 1
 CONSTRUCTION STAGING AND TRAFFIC CONTROL PLANS
 Sheet 58 of 64 Sheets

☐ = REBOUNDABLE PLASTIC DRUM

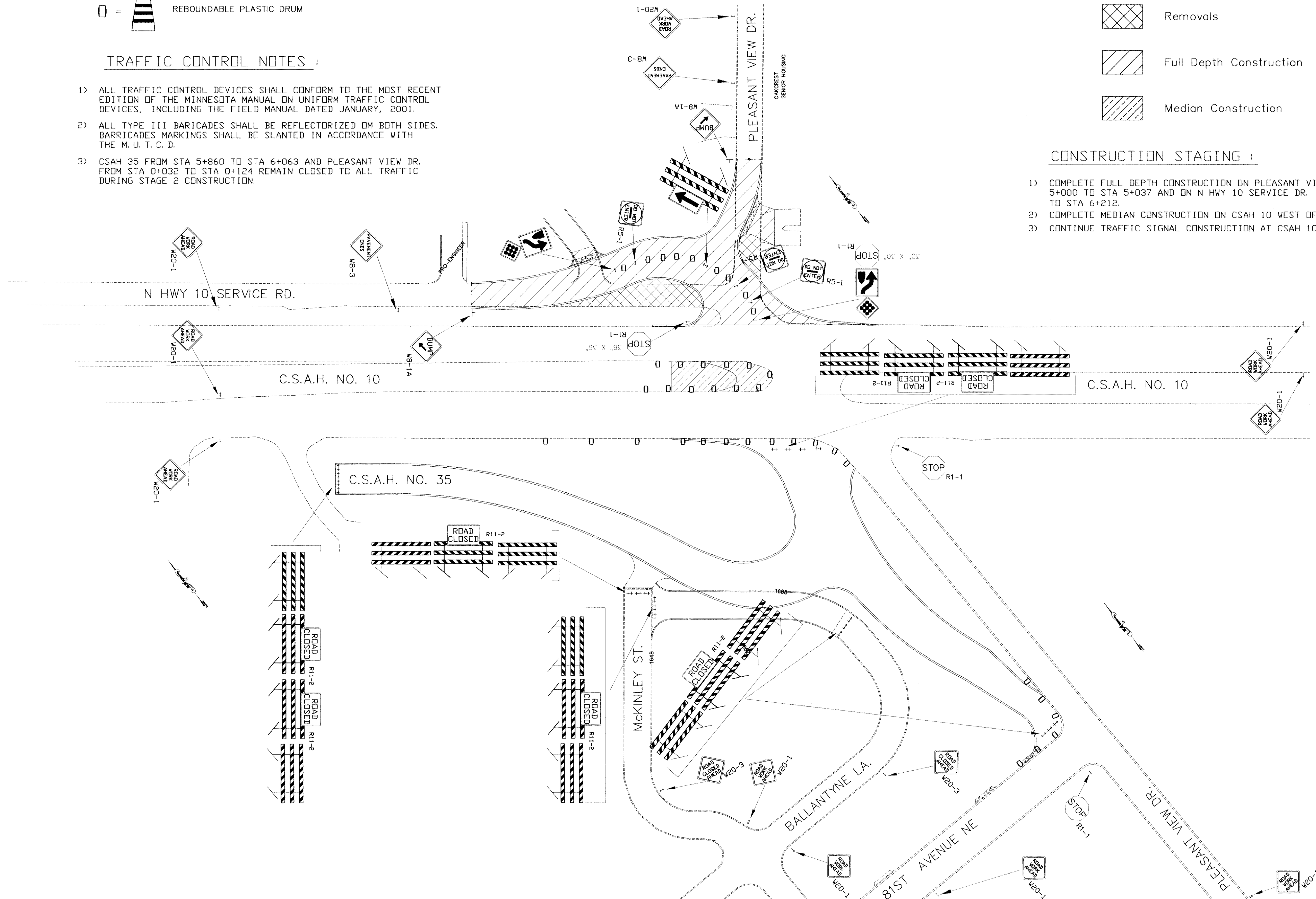
TRAFFIC CONTROL NOTES :

- 1) 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.
- 2) ALL TYPE III BARRICADES SHALL BE REFLECTORIZED ON BOTH SIDES. BARRICADES MARKINGS SHALL BE SLANTED IN ACCORDANCE WITH THE M. U. T. C. D.
- 3) CSAH 35 FROM STA 5+860 TO STA 6+063 AND PLEASANT VIEW DR. FROM STA 0+032 TO STA 0+124 REMAIN CLOSED TO ALL TRAFFIC DURING STAGE 2 CONSTRUCTION.



CONSTRUCTION STAGING :

- 1) COMPLETE FULL DEPTH CONSTRUCTION ON PLEASANT VIEW DR. FROM STA 5+000 TO STA 5+037 AND ON N HWY 10 SERVICE DR. FROM STA 6+100 TO STA 6+212.
- 2) COMPLETE MEDIAN CONSTRUCTION ON CSAH 10 WEST OF PLEASANT VIEW DR.
- 3) CONTINUE TRAFFIC SIGNAL CONSTRUCTION AT CSAH 10/PLEASANT VIEW DR.

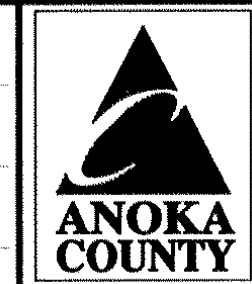


NO	DATE	BY	CKD	APPR	REVISION
NAME: S:\SDSKPROJ\000000\000000\026000.DWG					



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 PRINT NAME: _____
 SIGNATURE: _____
 DATE: _____ LICENSE NO. _____

DRAWN BY: ST. DATE: 9/27/01
 DESIGN BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. _____

STAGE 2
CONSTRUCTION STAGING AND
TRAFFIC CONTROL PLANS
 Sheet 59 of 64 Sheets

TRAFFIC CONTROL NOTES :

- 1) 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.
 - 2) ALL TYPE III BARRICADES SHALL BE REFLECTORIZED ON BOTH SIDES. BARRICADES MARKINGS SHALL BE SLANTED IN ACCORDANCE WITH THE M. U. T. C. D.
 - 2) THE CENTERLINE OF PLEASANT VIEW DR. BETWEEN CSAH 35 AND 81ST AVE. SHALL BE DELINEATED WITH DRUMS AS SHOWN UNTIL BITUMINOUS HAS BEEN LAID AND STRIPING HAS BEEN PUT DOWN.
- (A) SIGN TO BE REMAIN INPLACE UNTIL BITUMINOUS SURFACE HAS BEEN ESTABLISHED.
- (B) SIGN TO BE INSTALLED AFTER INITIAL BITUMINOUS SURFACE HAS BEEN ESTABLISHED.

= REBOUNDABLE PLASTIC DRUM

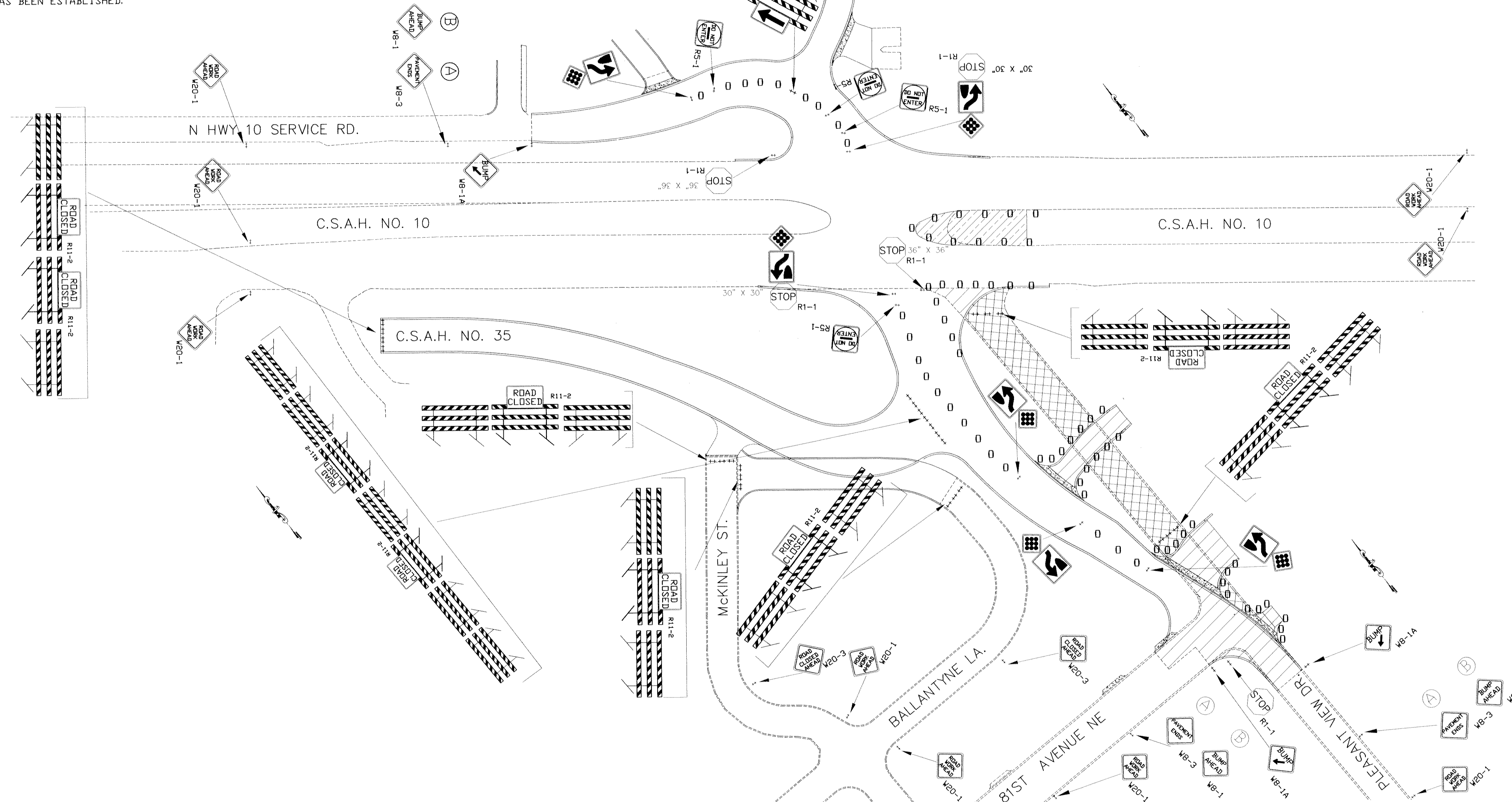
CONSTRUCTION STAGING :

- 1) COMPLETE REMOVALS OF OLD ALIGNMENT OF PLEASANT VIEW DR.
- 2) COMPLETE FULL DEPTH CONSTRUCTION ON CSAH 35 FROM STA 6+036 TO STA 6+049 (16.37 m RT) AND ON PLEASANT VIEW DR. FROM STA 0+000 TO STA 0+032. ALSO, COMPLETE FULL DEPTH CONSTRUCTION OF THE DRIVEWAYS LOCATED ON PLEASANT VIEW DR. SOUTH OF CSAH 10 WHICH REQUIRE ACCESS TO THE NEW ALIGNMENT.
- 3) COMPLETE MEDIAN CONSTRUCTION ON CSAH 10 EAST OF PLEASANT VIEW DR.
- 4) COMPLETE ALL PAVING AND CONCRETE WORK OPERATIONS FOR COMPLETED CONSTRUCTION ON PLEASANT VIEW DR., N HWY 10 SERVICE RD., AND CSAH 35 (STA 5+860 TO STA 6+063).
- 5) COMPLETE TRAFFIC SIGNAL CONSTRUCTION AT CSAH 10/PLEASANT VIEW DR.

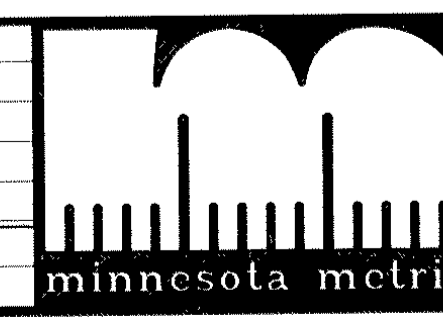
Removals

Full Depth Construction

Median Construction



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: _____

SIGNATURE: _____

DATE: _____ LICENSE NO. _____

DRAWN BY: ST DATE: 9/27/01

DESIGN BY: _____ DATE: _____

CHECKED BY: _____ DATE: _____

ANOKA COUNTY HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09


STATE AID PROJECT NO. _____

STATE AID PROJECT NO. _____

COUNTY PROJECT NO. _____

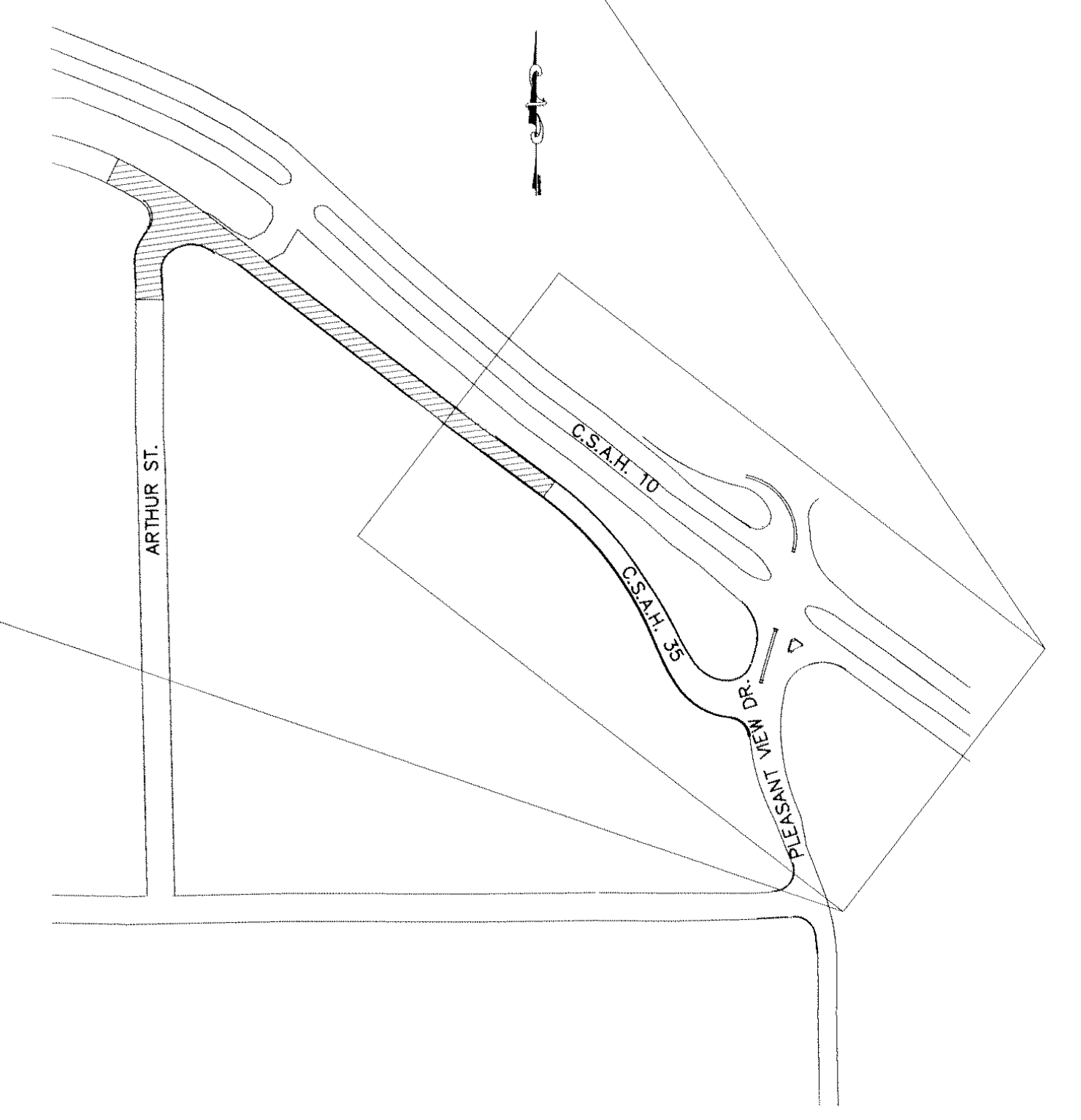
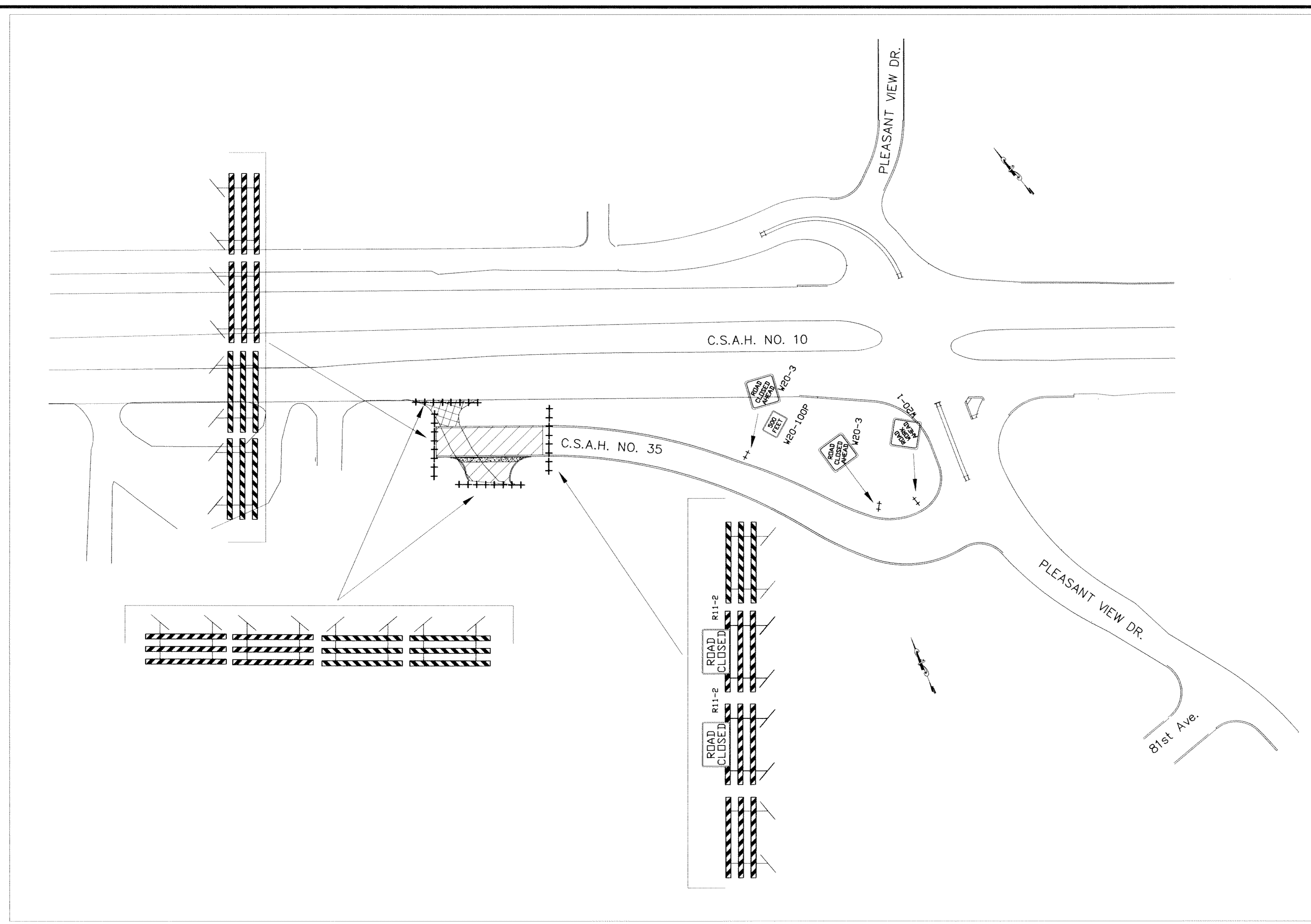
STAGE 3
CONSTRUCTION STAGING AND TRAFFIC CONTROL PLANS

Sheet 60 of 64 Sheets

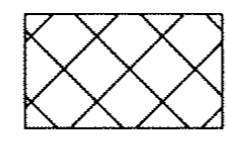
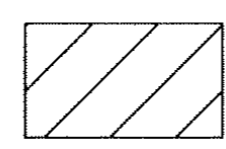

☐ =  REBOUNDABLE PLASTIC DRUM

TRAFFIC CONTROL NOTES :

- 1) 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.
- 2) ALL TYPE III BARRICADES SHALL BE REFLECTORIZED ON BOTH SIDES. BARRICADES MARKINGS SHALL BE SLANTED IN ACCORDANCE WITH THE M. U. T. C. D.



● Typical traffic control layout for stage 4 construction of CSAH 35 with the driveway-by-driveway elimination of access to CSAH 10 for businesses located along the new segment of CSAH 35. NOTE: STAGE 4 DETOUR (SHEET 63 OF 64) MUST BE INPLACE.

-  Removals
-  Full Depth Construction
-  Median Construction

NO	DATE	BY	CKD	APPR	REVISION



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PRINT NAME: _____
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DRAWN BY: S. T. DATE: 9/20/01
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 CHECKED BY: _____ DATE: _____



ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. _____

STAGE 4
 CONSTRUCTION STAGING AND
 TRAFFIC CONTROL PLANS
 Sheet 61 of 64 Sheets

STAGE 1 QUANTITIES			
M. U. T. C. D. CODE	SIZE	INSERT	QUANTITY
W20-1	48' x 48'		• 8
W20-3	48' x 48'		• 2
TYPE III	8 FOOT		SEE NOTE • 10
R11-2 TYPE III	48' x 30' 8 FOOT		SEE NOTE • 7
REBOUNDABLE PLASTIC DRUM			• 18
R1-1	36' x 36'		• 2

STAGE 2 QUANTITIES			
M. U. T. C. D. CODE	SIZE	INSERT	QUANTITY
W20-1	48' x 48'		• 10
W20-3	48' x 48'		• 2
W8-1A	48' x 48'		• 2
W8-3	48' x 48'		• 2
R1-1	36' x 36'		• 3
R1-1	30' x 30'		• 1
R4-7	24' x 30'		• 2
X4-2	18' x 18'		• 2
R5-1	30' x 30'		• 3
W1-6 TYPE III	48' x 24' 8 FOOT		SEE NOTE • 1
TYPE III	8 FOOT		SEE NOTE • 10
R11-2 TYPE III	48' x 30' 8 FOOT		SEE NOTE • 7
REBOUNDABLE PLASTIC DRUM			• 39

STAGE 3 QUANTITIES			
M. U. T. C. D. CODE	SIZE	INSERT	QUANTITY
W20-1	48' x 48'		• 10
W20-3	48' x 48'		• 2
W8-1	48' x 48'		• 4
W8-1A	48' x 48'		• 4
W8-3	48' x 48'		• 4
R1-1	36' x 36'		• 3
R1-1	30' x 30'		• 2
R4-7	24' x 30'		• 6
X4-2	18' x 18'		• 6
R5-1	30' x 30'		• 4
TYPE III	8 FOOT		SEE NOTE • 17
R11-2 TYPE III	48' x 30' 8 FOOT		SEE NOTE • 9
REBOUNDABLE PLASTIC DRUM			• 72
W1-6 TYPE III	48' x 24' 8 FOOT		SEE NOTE • 1

STAGE 4 QUANTITIES			
M. U. T. C. D. CODE	SIZE	INSERT	QUANTITY
W20-1	48' x 48'		• 1
W20-3	48' x 48'		• 2
W20-100P	24' x 18'		• 1
TYPE III	8 FOOT		SEE NOTE • 14
R11-2 TYPE III	48' x 30' 8 FOOT		SEE NOTE • 2

TRAFFIC CONTROL NOTES :

- 1) 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.
- 2) ALL TYPE III BARRICADES SHALL BE REFLECTORIZED ON BOTH SIDES. BARRICADES MARKINGS SHALL BE SLANTED IN ACCORDANCE WITH THE M. U. T. C. D.

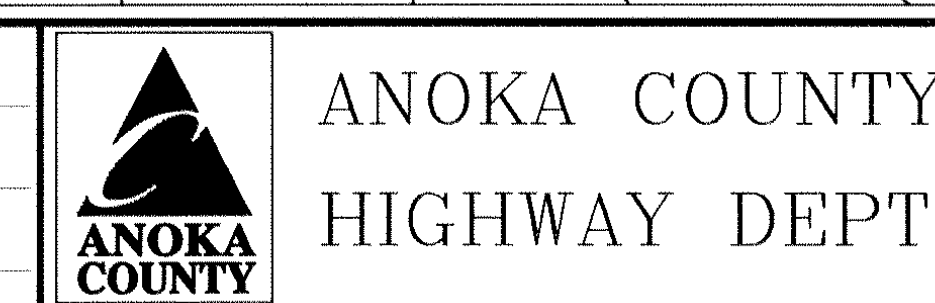
NO	DATE	BY	CKD	APPR	REVISION



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 CHECKED BY: _____ DATE: _____



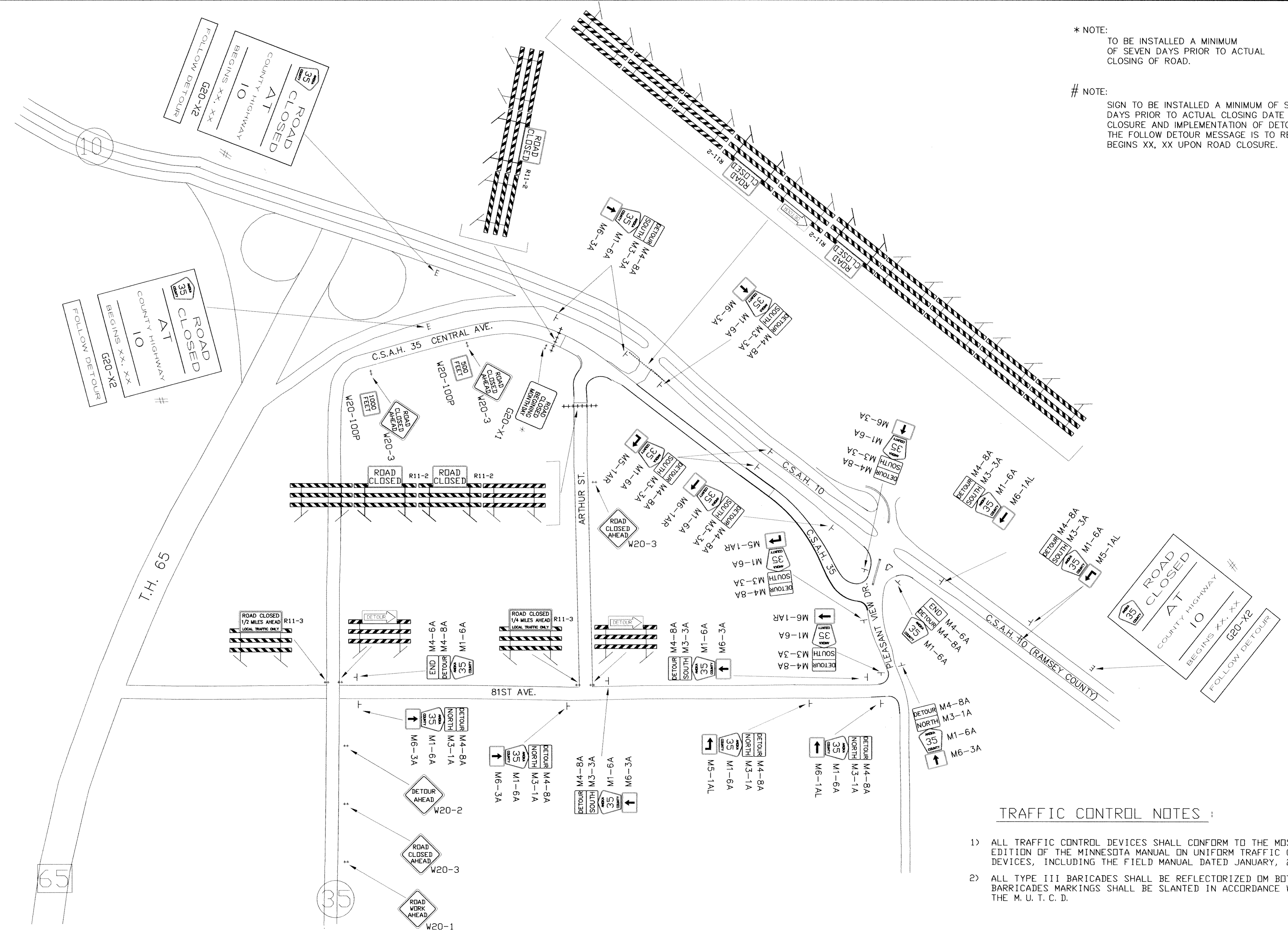
STATE PROJECT NO. 02-635-09
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. _____

CONSTRUCTION STAGING AND TRAFFIC CONTROL QUANTITIES

Sheet 62 of 64 Sheets

* NOTE:
TO BE INSTALLED A MINIMUM
OF SEVEN DAYS PRIOR TO ACTUAL
CLOSING OF ROAD.

NOTE:
SIGN TO BE INSTALLED A MINIMUM OF SEVEN
DAYS PRIOR TO ACTUAL CLOSING DATE OF ROAD
CLOSURE AND IMPLEMENTATION OF DETOUR SIGNING.
THE FOLLOW DETOUR MESSAGE IS TO REPLACE
BEGINS XX, XX UPON ROAD CLOSURE.



TRAFFIC CONTROL NOTES :

- 1) 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.
- 2) ALL TYPE III BARRICADES SHALL BE REFLECTORIZED ON BOTH SIDES. BARRICADES MARKINGS SHALL BE SLANTED IN ACCORDANCE WITH THE M. U. T. C. D.

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: _____
SIGNATURE: _____
DATE: _____ LICENSE NO. _____

DRAWN BY: S. T. DATE: 9/20/01
DESIGN BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____

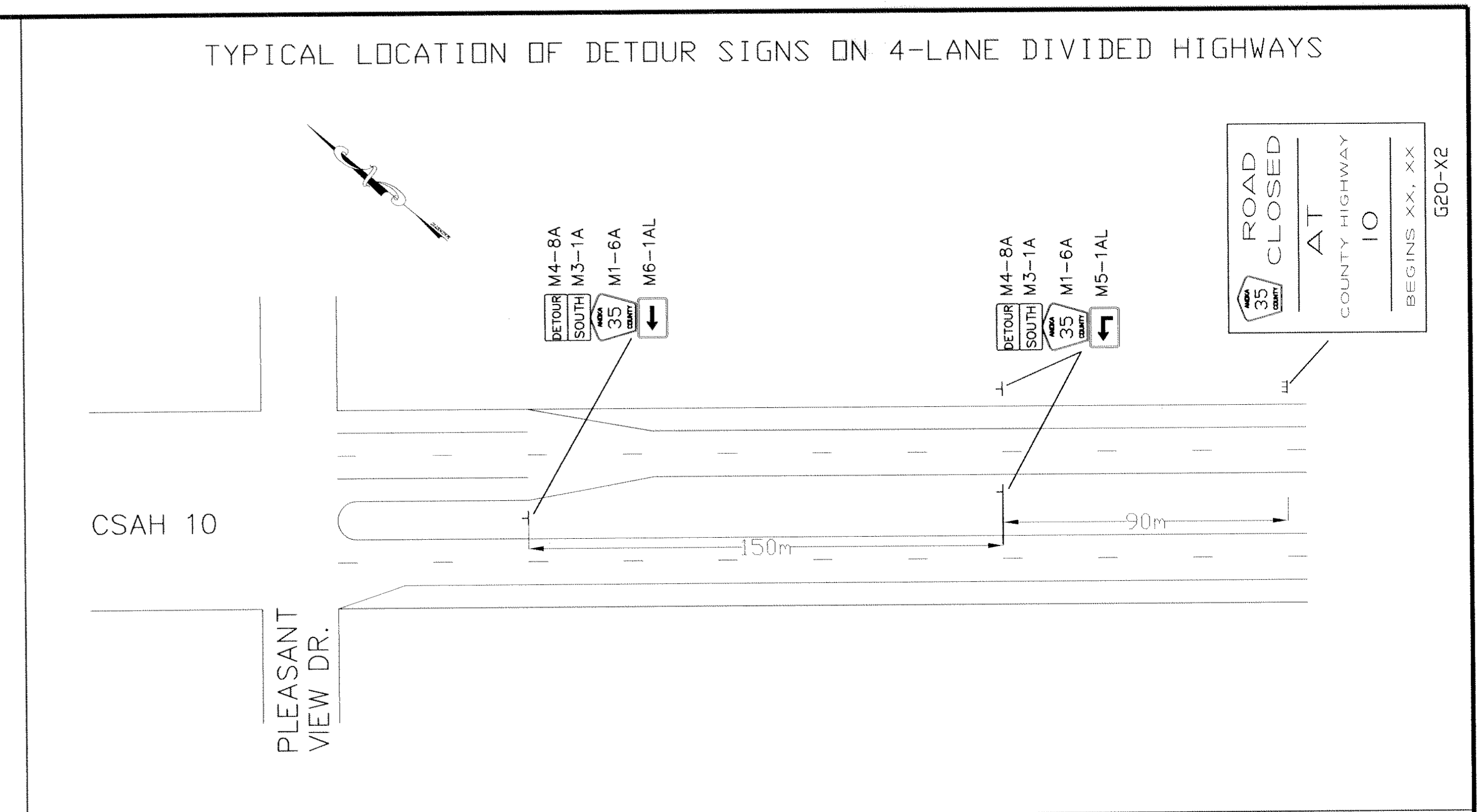


ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09
STATE AID PROJECT NO. _____
STATE AID PROJECT NO. _____
COUNTY PROJECT NO. _____

STAGE 4
DETOUR
Sheet 63 of 64 Sheets

M. U. T. C. D. CODE	SIZE	INSERT	QUANTITY	M. U. T. C. D. CODE	SIZE	INSERT	QUANTITY
W20-1	48" x 48"		• 1	R11-3	60" x 30"		SEE NOTE
W20-2	48" x 48"		• 1	TYPE III	8 FOOT		• 1
W20-3	48" x 48"		• 4	M4-8A	24" x 12"		• 6
W20-100P	24" x 18"		• 1	M3-3A	24" x 12"		• 2
M4-10L	48" x 18"		SEE NOTE	M1-6A	24" x 24"		• 1
TYPE III	8 FOOT		• 1		21" x 15"		• 3
R11-2	48" x 30"		SEE NOTE				• 2
TYPE III	8 FOOT		• 7	M4-8A	24" x 12"		• 1
R11-3	60" x 30"		SEE NOTE	M3-1A	24" x 12"		• 1
TYPE III	8 FOOT		• 1	M1-6A	24" x 24"		• 3
M4-10R	48" x 18"		SEE NOTE	M4-6A	24" x 12"		• 2
TYPE III	8 FOOT		• 2	M4-8A	24" x 12"		• 2
TYPE III	8 FOOT		SEE NOTE	M1-6A	24" x 24"		• 2
TYPE III	8 FOOT		• 5	G20-X1	60" x 48"		• 1
TYPE III	8 FOOT		SEE NOTE	G20-X2	132" x 108"		• 3
TYPE III	8 FOOT		• 6				



TRAFFIC CONTROL NOTES :

- 1) 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.
- 2) ALL TYPE III BARRICADES SHALL BE REFLECTORIZED ON BOTH SIDES. BARRICADES MARKINGS SHALL BE SLANTED IN ACCORDANCE WITH THE M. U. T. C. D.

* SIGN TO BE INSTALLED A MINIMUM OF SEVEN DAYS PRIOR TO ACTUAL CLOSING DATE OF ROAD CLOSURE AND IMPLEMENTATION OF DETOUR SIGNING. SIGNS TO BE REMOVED AT TIME OF DETOUR INSTALLATION.

* SIGN TO BE INSTALLED A MINIMUM OF SEVEN DAYS PRIOR TO ACTUAL CLOSING DATE OF ROAD CLOSURE AND IMPLEMENTATION OF DETOUR SIGNING. THE FOLLOW DETOUR MESSAGE IS TO REPLACE BEGINS XX, XX UPON ROAD CLOSURE.

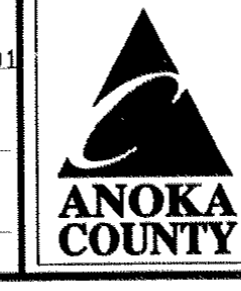
NO	DATE	BY	CKD	APPR	REVISION



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PRINT NAME: _____
SIGNATURE: _____
DATE: _____ LICENSE NO. _____

DRAWN BY: S.T. DATE: 9/20/01
DESIGN BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. 02-635-09
STATE AID PROJECT NO. _____
STATE AID PROJECT NO. _____
COUNTY PROJECT NO. _____

DETOUR
SIGN QUANTITIES
Sheet 64 of 64 Sheets