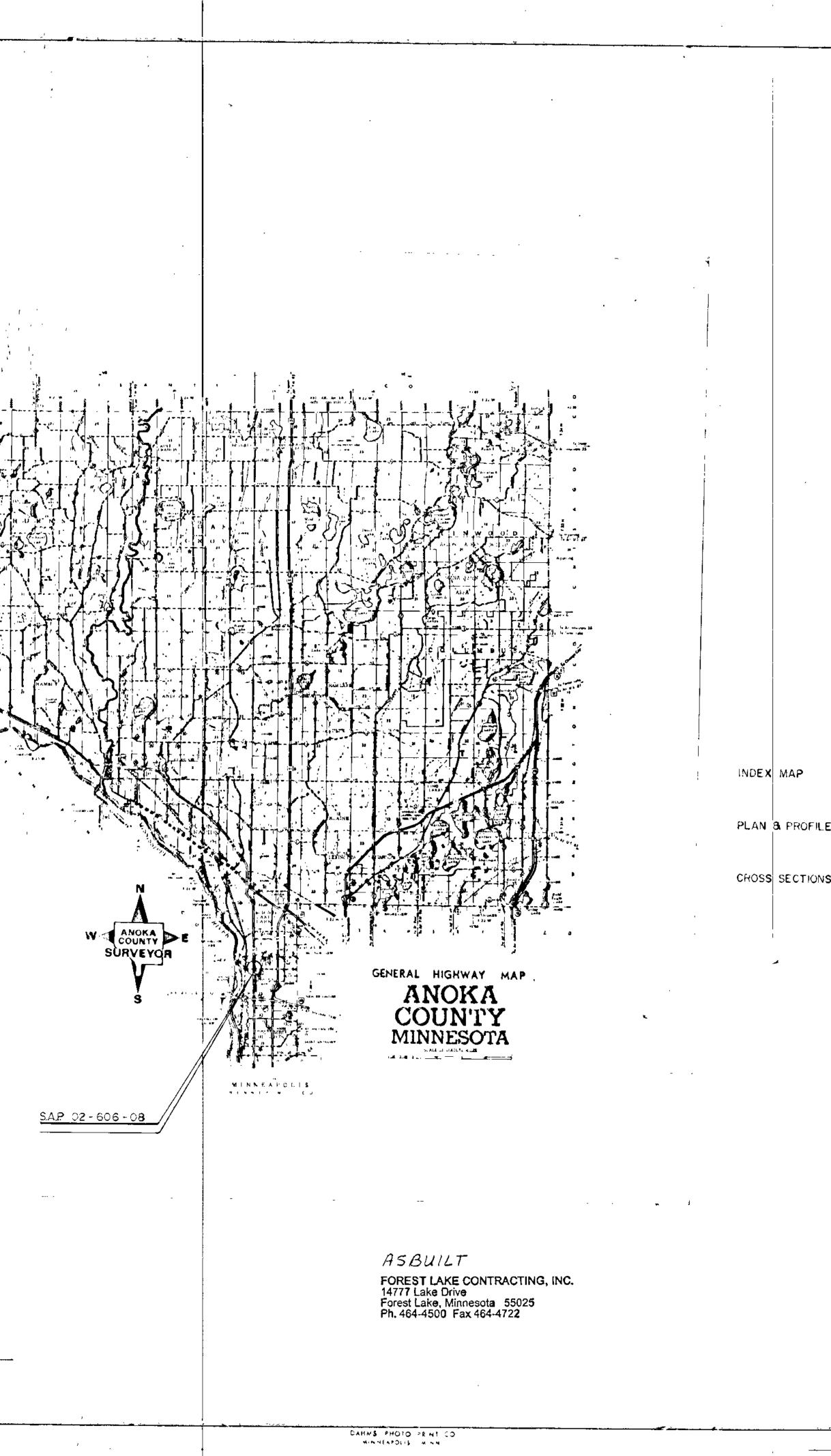
· · 1 al. FORM 129 A REV. 64 CONVENTIONAL SIGNS STATE LINE COUNTY CINE TOWNSHIP OR RANGE LINE SECTION LINE -----QUARTER LINE -----SINTEENTH UND RIGHT OF HAY LINE PRESENT RAME DE MAR UNE LON-IDL OF ACCESS LINE _____ C ____ C ____ O LORPORATE DE CITY UNITS ALTAINING BALL RA LROAD _____ RAUROAD P GHT # HAY LINE A STANK AND A STANK RIVER OR CREEK OBY RUN ಷ್ಟ ನಿಕ್ಷ ಜನ್ಮ DAA AAGE DITCH ELECTRIC POWER LINE TELEPHONE OR "LLEGRAPH , NE - ------ PHDURT TELEPHONE CABLE AERIAL POWER LABLE UNDERGROUND - P- P- P-SAN N'AIN CLUVERT FEFSISTIES -DROF HUET 0-----GUARD RAM BARBED IN ME FENCE WEYEN W AL FENCE CHAIN LINK FENCE * * * * RALROAD SNOW FENCE ⅆ℁ℯÅℯ℈ℽ℻ℷ℁⅏℣ ⅌ⅅℶℿℴℸℳℸℋ STONE WALL OR FENCE HEQUE, MATER P. PE --- -- --- ---SEWER PIPE 520 NG 41.21 - AR SH - - 6E ORCHARD • C IT MAER' BRUSH v NURSERVI UATU - BASIN . b 🗋 ~~Q 1.1 STREET LIGHT RAILHCAD CHOSSING SIGN RAILPEAD LADSSING BELL ELECTRYC WARNING SIGN LACSS HE GATE CATTLE LUARD ─ ┿╬┿ ━━ UNDERPASS OF STATE OF THE THE STATE ---- **);**;;;;; BF-DGE De la logit de la seconda de l . BUILDING (One Story Fame) [37]: F FRAME C LONLARTE S STONE T THE B BRICK ST STUCCE NON P PE OR ROD WONDMENT ,STUNE CONCRETE OR METAL, WOODER HOR JRA-EL PST Pit 1914 -SCREW, PIL BCLP QUARAN MEANLER CONNER . DESIGN DESIGNATION 1 ADT ICURRENT HARI ____10,500 ADT FUTURE (EAR) 17,850 T COMMERCIALI ._ IO___Ton Design R-VALUE 60 Design Speed.____35____MPH_SIGMA_N18_1,872,976 Design Speed not achieved at: STOPPING SIGHT DISTANCE BASED ON: 3.5' HT. OF EYE - 0.5' HT. OF OBJECT Functional classification <u>Arterial High Density</u> No. of traffic lanes <u>4</u> No. of parking lanes <u>0</u> SPECIFICATIONS THE "STANDARD SPECIFICATIONS FOR CONSTRUCTION," 1968 ECHTION AS EMERCED BY THE JANUARY 02, 1991 SUPPLEMENTAL SPECIFICATION SHALL GOVERN

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•	Fed. Proj. No
	STATE OF MINNESOTA
2	DEPARTMENT OF HIGHWAYS GRADING, STORM SEWER, CONC. CURB & GUTTER CONSTRUCTION PLAN FOR BASE, BITUMINOUS SURFACING, SIGNAL AND LIGHTING
	State Aid Highway No. 6
in F	T. 1036' W. OF T.H. 47 And <u>APT. 912' E. OF T.H. 47</u>
From <u>236' E. OF. W. I</u>	1/4 CORNER SEC. 14, T. 30, R.24 To 2184' E. OF W. 1/4 CORNER SEC. 14, T.30, R,24
	GROSS LENGTHI948FEETOMILES BRIDGES LENGTHOFEETOMILES EXCEPTIONS LENGTHOFEETOMILES NET LENGTHI948FEETO37MILES
	INDEX OF SHEETS
	Sheet No. 1 Title Sheet " " 2-3 Estimated Quantities, Standard Plates, 8
	Construction Notes 4 4 Typical Sections
	" " 5 Storm Sewer & Miscellaneous Tabulations " " 6-7 Miscellaneous Details
	" " 8 Irrigation System " " 9-10 Pian 8 Profile
	" " 11-14 Cross Sections " " 15-17 Lighting Plan
	" " 18-20 Traffic Control Plan
	" "21-23 Signing & Striping, Plan " "24-31, Gignal Plans
	THIS PLAN CONTAINS 31 SHEETS
· -	
CALE	
<u>2 MI.</u>	
VERT	I hereby certify that this plan, specification or
HORIZ 50' -+	report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the
VERT. 10'-1	State of Minnesota. Sang a. Existence. Data 292/27 2 2 1454.
HOR!Z,	
	Recommended for Approval
	Recommended for Approval
	Recommended for Approval Robert 11 Cartford 8-10 1392
	DIRECTOR, PRE-LETING ENGINEERING GM- Recommended for Approval _ DIRECTOR, PRE-LETING ENGINEERING GM-
	Approved E and and 8/11 1992
1	Recommended for Approval
	HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY WE OR UNLER WY CIRECT SUPERVISION AND THAT
	AM A DULY RECHTERED PROFESSIONAL ENDINEER UNDER HE LAWS OF THE STATE OF MINNENDTA
	Tane K. Kund Late 1/23/81
	Ø m
	RECOMMENDED FOR APPROVA.
	RECOMMENDED FOR APPROVAL MISING B/5_ 1992
	APPROVED 8/5 1992 Damin C. Callon
	state ald their a
	Proj. No M.S.A.P. No. 127-020-09
Jaie	Proj. No. 0205 - 55 (47=156) S.A.P. 02-606-08 County, Minnesota, Plan No. Sheet 1 of 31 Sheets

		51A11							F			CONSTRUCTION SOILS / NOTES
	ITEM NO.	ITEM MOBILIZATION	UNIT LUMP SUM	ESTIMATED FINA QUANTITIES QUANTI 1.0	TES	ITEM NO. 2003, 571	INSTALL 12" RC PIPE SENER	UNIT Lin. ft.	ESTIMATED FIN. QUANTITIES QUANT 5응. 0		REMO	ECTED GRADING MATERIALS ON THIS PROJECT SHALL OVED FROM THE EXCAVATION WITH THE EXCEPTION OF
		FIELD UFFICE TYPE D	EACH	1.0			12" RO PIPE JEWER	LIN. FT.	22;1.0		2. WHER	OTHER UNSUITABLE MATERIAL. RE PLACING NEW SURFACING ADJACENT TO AN INPLAC
		NEER AND GRUB ROADWAYS	LIM. FT.				15" RC FIFE SEWER	LIN. FT.			INPL	VATION SHALL BE BACKFILLED PROMPTLY TO AVOID ACE PAVEMENT.
	2104.501	REMUSE REPLANING WALL	LIN. FT.	20.0		- 2560:541 -	- CLASS III - 15" FC fife Scher - CLASS IV		++15+0		ТО В	P AND REUSE AS SLOPE DRESSING, ALL TOPSOIL WHE BE DISTURBED BY CONSTRUCTION,
(5	1	REMOVE CONDERN CURB AND SUTTER REMOVE BITUMUNUNS	LIN. FT. OQ. YD.	4275.p 10400.0	GE		15" RC FIFE SEWER		20.0 432.0		OTHE	IMINOUS SURFACING, CONCRETE ITEMS, ANY ABANDON IR UNSUITABLE MATERIAL ENCOUNTERED DURING CONS POSED OF BY THE CONTRACTOR OFF THE RIGHT OF WA
ADING	210 4. 50 5	PAVEMENT REMOVE EITUMINONS, DL.	se.yp.	200.0	AINA	2503.511	18" RC FIFE CEWER CLASS IV	IN. FT.	145.0			ACTION ON THE GRADING PORTION OF ALL PERMANEN INED IN ACCORDANCE WITH THE "ORDINARY COMPACTS
GR		REMOVE CONCRETE WALK REMOVE CONCRETE DRIVEW,	Se. YD.	2910.0 195.0	ā	0503,603 2506,506	(JACKED)	LIN. FT. LIN. FT.	50.0 4.2		6. СОМР WI [†] th	ACTION OF ALL BITUMINOUS ITEMS SHALL BE OBTA: I THE "ORDINARY COMPACTION METHOD" REQUIREMENTS.
	2104.309	REMOVE CATCH BASIN	i pc.	7.0		2506,506	DESIGN C R C CONSTRUCT MURRIE DESIGN F	LIN, FT.	30.6		7. USE	20:1 TAPERS WHERE CHANGING SUBCUT DEPTHS.
	2104,509	REMOVE PIPE APRONS	LACH	1.0		2506.507	CONSTRUCT THEOR BASIN	LIN. FT.	35.3	ť		SELECTED GRADING MATERIALS BEHIND ALL CURBS J
	2104.509	REMOVE MANHOLES	EACH	4.0		2506.507	CAST LO CATCH DASIN	LIN. FT.	29.0			UT EXISTING PAVEMENT WHEREVER NEW PAVEMENT AS
		CAWING BITUMINDUS Pamement	LIN. FT.	10		2506.507	CINS RUCT CATCH BABIN - PREIGN H	LIN, FT.	12.5		AS S	ULAR MATERIAL MEETING THE REQUIREMENTS OF SPE UBGRADE EXCAVATION SHALL BE USED AS SUBCUT BA HE ENGINEER.
i		CALVAGE PIPE DEWER	LIN. FT.	5:00			CASTING ASSEMBLIES	LIN, FT. Each	10.4		I. ALL	-
		COMMON EXCAVATION OF	EACH CU, YD.	15,0	N -	25 6. 21	INSTALL CASTINGS	EACH	2,0	l' [. FERT:	ILIZER ANALYSIS 10-10-10.
		COMMON BORROW (EV)	CU. YB.	9556.0 500.0			ADUUST FRAME AND RÍNG Castings	EACH	12.0			
	2211.503	AGGREGATE BASE PLACED CLASS 5-A	cu. yp.	4150.0		0503.011	10" FIFE SEWER	╶╾╾┶┶┶		•	,	STANDARD PLATES
					TARY	Participant of	CUNSTRUCT MANHOLE				PLATE NO	D. DESCRIPTION
		BINDER COURCE MIXTURE Type 31	TON	1736.0	SAN	05 45. 42	ADJUST FRAME AND RING	ЕАСН	5.0		0005 A	SPECIFICATION REFERENCE TO STANDARD PLATE
		BAGE COURSE MIXFURE Type 3/	TUN	-34.7	Z	0504.001	REDCATE IRRIGATION SYSTEM	LUMP 30M	1.0		3000L 3006F	REINFORCED CONCRETE PIPE GASKET JOINT FOR REINFORCED CONCRETE PIPE
	-0331.661	RESTORE TRENGH PAVEMENT	50; 0;		MAI		6 WATER GATE VALVE HAD		3.0		4002 E 4005K	MANHOLE OR CATCH BASIN-DESIGN C
					TER	0504.602	ADUUST UNTE VALVE NAD	EACH	5.0		4005K 4006K	MANHOLE OR CATCH BASIN-DESIGN F MANHOLE OR CATCH BASIN-DESIGN G AND DESIG
		WEAR COURSE MIXTURE TYPE- 41 BITUMINOUS MATERIAL FOR		1517.0 1155.0	MA	0504.603	6" WATER MAIN-DOCTILE IRON	LIN. FT.	25.0		4010 G 4011D	CONCRETE SHORT CONE AND ADJUSTING RING PRECAST CONCRETE BASE
UNG		TACK COAT	LINE SUM	1.0		0504,620	WATERMALN FOR NOS	POUND	50.0		4101C	RING CASTING FOR MANHOLE OR CATCH BASIN
PAV		PAD		13.7				- <u>Encik</u>			4110E 4126F 4140D	COVER CASTING FOR MANHOLE CASTING NO. 7 CATCH BASIN FRAME CASTING CASTING NO. 8
	2521.501	SHELTER PAD 4" CUNURETE WALK	98. FT.	2,527.0	HTINC		ELECTRIC LIGHTING	LUMP SUM	1.0		4149C 4161F	SPECIAL GRATE CASTINGS FOR CATCH BASINS CATCH BASIN GRATE CASTING CASTING NO. CURB BOX CASTING FOR CATCH BASIN CASTIN
	, 0521.607	CONCRETE PAINS STAR	30. YD.	1902 D	SY:		SYSTEM "B"		1.0		4180H 7035J	CONCRETE WALK AND CURB RETURNS AT ENTRAN
	2531.501	PAVEMENT CONCRETE CLARE IND SUTTES	LÍN. FT.	4100.0				$ \setminus \setminus \rangle$			7020J * 7065C	CONCRETE CURB BITUMINOUS CURB
	2531.501	UUNFIET CARB AND GUTTE	LIN. FT.	1901.0							7100F 7110E	CONCRETE CURB AND GUTTERS (DESIGN B & DE CURB AND GUTTER CONSTRUCTION AT CATCH BASI
	2531.502	UNTEL CURB DESIGN V4	LIN. FT.	400.0							7111G 8111B	INSTALLATION OF CATCH BASIN CASTINGS TRAFFIC SIGNAL BRACKETING (PEDESTAL MOUN
	2531.343	VONCRETE MEDIAN	sø. vo.	100.0		0411.603	CONSTRUCT STURE REPAINING WALL	30.FT.	1/20/07		8112C 8115C	PEDESTAL FOUNDATION PEDESTRIAN PUSH BUTTON INSTALLATION
ĺ	2531.597	6" CUNCRETE DRIVENAY	30. YD.	178.4	APIN(0452,603	STEEL SHEET FILING (TEMPORARY) TOPSOIL BORROW L.V	5Q. FT.	1 300 0		<u> </u>	PRECAST CONCRETE HANDHOLE - PEDESTAL AND PEDESTAL BASE POLE & MAST ARM (LUMINARE & TRAFFIC LIGH
	2531.507	PAVEMENT S" CUNCRETE DRIVEWAY	30. YD.	2:4.8	SSC/	2105.525 2575.505	TOPSOIL BORROW L.V Type Lawn Soddung W/4" "upsoil	си, ур. 90, ур.	360.0 3200.0		8124D	MAST ARM SIGNAL HEAD MOUNTS SWING-AWAY HINGE (FOR TRAFFIC SIGNAL ARM
		FAVEMENT Bituminous curb	LIN. FT.	205.0	LANI	1	COMMERCIAL FERTILIZER ANALYSIS 10+10-10	TÜN	0,1		8130D BITUMIN	OUS CURB HEIGHT SHALL BE MODIFIED TO 6"
			PLAN AND	EXTRA PAVING ST	ONE AT U	INIVERSITY		STRCA	PROSCO			
· • •	2-24-87 LA	CONTROL F	PLAN	AT 5TH ST. AND A	<u>DDED TR</u>	AFFIC			R-ROSCO			
<u>4 </u>	<u>-10-91 [Č</u>		ER CITY REV					NEAPOLIS				MINNESOTA Burg & Binhow ESTIN

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		EAR	THWORK S	SUMMARY]
CONSIST OF MATERIALS F ORGANIC SOILS, TOPSOIL		LOCATION	ROADWAY EXCAVATION Cu. Yd. (P)	SUBGRADE Excavation Cu. Yd.	EMBANKMENT REQUIRED · Cu. Yd.
E PAVEMENT, THE UNDERMINING THE	C ,	S.A.H. 6	9156		2258
ERE PRESENT IN AREAS		ES:		<u> </u>	<u></u>
ED UTILITY ITEMS AND TRUCTION SHALL BE Y. T CONSTRUCTION SHALL BE ON METHOD" REQUIREMENTS. NED IN ACCORDANCE	2. [/ 3. 5 4. [/	20% SHRINKA EV) TO COMPA 40% SHRINKA /OLUME (CV) 50BCUTS ARE DEPENDING ON BORROW MAY F MATERIAL THE THE PROJECT	CTED VOLUME GE FACTOR F ASSUMED. INCLUDED IN C ACTUAL SHRII BE REQUIRED. CONTRACTOR	E (CV) ASSU ROM (LV) TO COMMON EXC NKAGE FACT IF THERE IS	MED. D COMPACTED AVATION. ORS COMMON
NLESS OTHERWISE NOTED.		-	· ,		
UTS OLO PAVEMENT.					
C 3149.2A OBTAINED Ckfill as directed					
250# PER ACRE USING					
	- STATE	EMENT O	F ESTIMA	EST	IMATED FINAL
S	2564.513 C 0563.601 T 0563.601 T 0564.602 P/ 01 0564.602 S 0564.603 4 0564.603 4 0564.603 4 0564.603 4 0564.603 4 0564.603 2 0564.603 2	8 I. SGN RANEL T ONCRETE EODTH RAFFIC CONTROL RAFFIC CONTROL AVEMENT MESSAG NLY) PAINT AVEMENT MESSAG NLY) PAINT IGN PANELS INTERNALLY ILL SOLID LINE SOLID LINE SCIED LINE STOP BAR LINE STOP BAR LINE STOP BAR LINE STOP BAR LINE	G STAGE I STAGE 2 ELEFTARROW E (RIGHT ARROW E (RIGHT ARROW) E (RIGHT ARROW E (RIGHT ARROW E (RIGHT ARROW) E (RIGHT ARROW E (RIGHT ARROW) E (RIGHT ARROW E (RIGHT ARROW) E (RIGHT ARROW E (RIGHT ARROW) E (RIGH	LIN. FT. JS LIN. FT. JS LIN. FT. JC LIN. FT. 2	3 3 1 2 3 4 53 53 53 52 1 95 28 37 72
	. -		•		· · ·
CASTING NO. 700-7		. STA	NDARD PL	ATES (C	ONT.)
<u>10</u> <u>3 ND</u> . 8218	PLATE N		RIPTION METAL PIPE CULV	FRT	
ES *	3221C * 7036D * 80001	CORRUGATED PEDESTRIAN STANDARD BA	STEEL P.PE COUL CURB RAMP ARRICADES		
	₩ SURFA	CE TREATMENT N	, (, , , , , , , , , , , , , , , , , ,		·'
D)	•	-	, •		
			¢ ^		•
AST)			M.V. a. 6. 4. 5 M.V. 6. 6- 40 M.N. 12 5 4		
ANOKA COUNTY	7 	STATE			SHEET 2
C.S.A.H. 6 TED QUANTITIES, STAN	IDARD PI	M.SA	P. NO. LERICI	<so<u>N 4-86 ∈ ∺ NO<u>W 4-86</u></so<u>	COMM. NO.
AND CONSTRUCTION N		S.P.			0860685

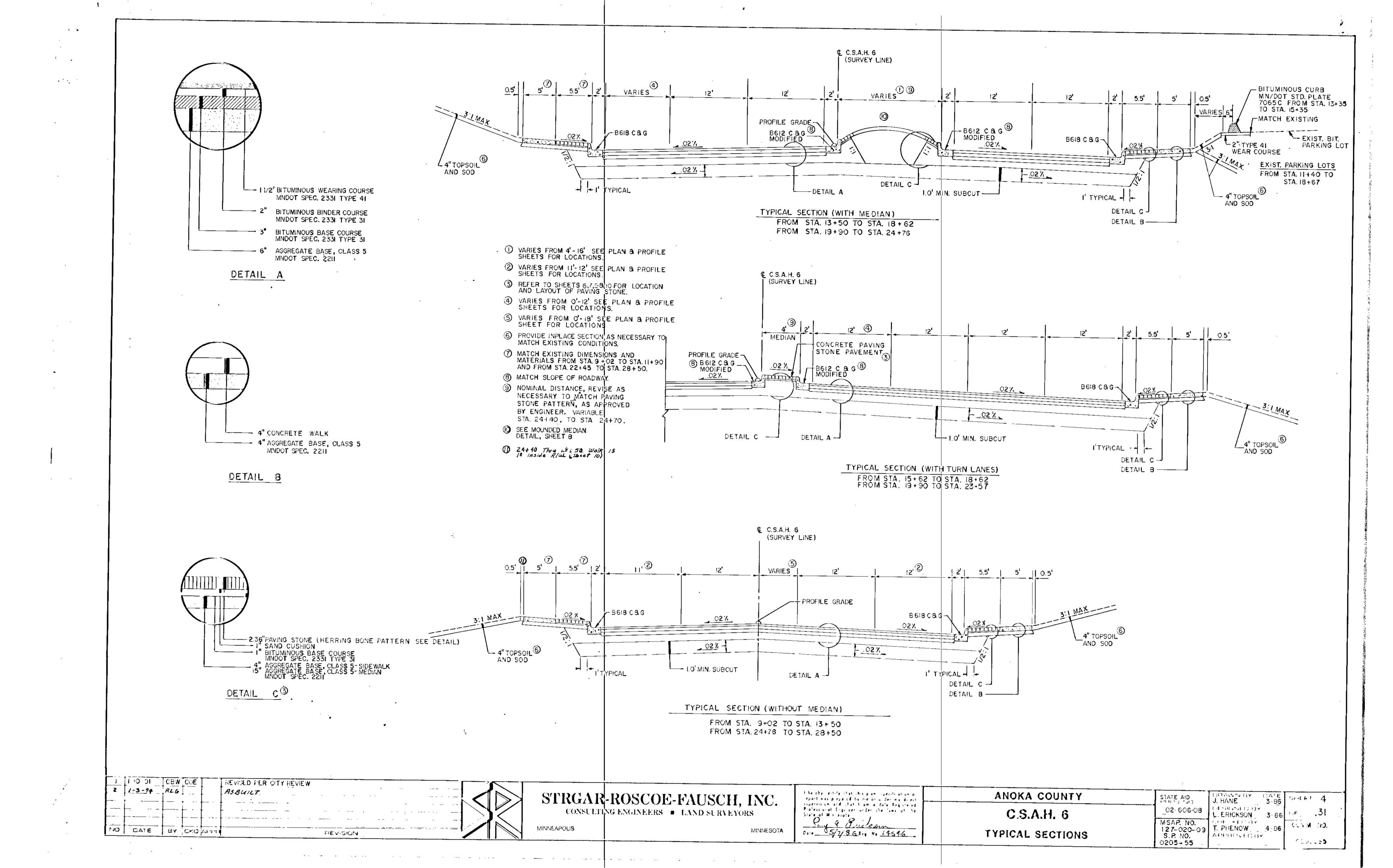
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,		STATEMENT OF ESTIMATED QUANTITIES	① 100% SAP 02-606-08
	ITEM NO	IDIAL QUANTIES RUALWAT U TOURD & OUTTER OF LETNAL EST EINAL	 2 50% SAP 02-606-03 50% MSAP 127-020-09
	<u>2021.50</u> 2031.50	I MUBILIZATION I FIELD OFFICE, TYPE D I GIEADING AND GRUPPING	 3 100% M54P 127-020-09 4 100% 017% OF FRIDLEY
	2101,51 2104,50 2104,50 2104,50 2104,50	I CLEARING AND GROEDING LF 195 195 195 1 REMOVE PIPE SEWERS LF 90	LOCAL
	2104.50 2104.50 2104.50	SREMQVE BITUMINOUS PAVEMENT SY 13,400 13,400 200 200 200 200 200 200 200 200 200	 PARTICIPATION BACED ON STATE ALD HYDRAULICS LETTER SCN MN 0205-6812
	2104.50 2104.50 2104.50		SCN MN 0205-6812 25% SAP 02-606-08 25% MSAP 127-020-09
	2104.50 2104.50 2104.51	A REMOVE MANHOLES A REMOVE SIGN, TYPE C A SAWING BITUMINDUS PAVEMENT A SAWING BITUMINT A SAWING BITUMINDUS PAVEMENT A SAW	SODDING TYPE LAWN IS TO INCLUDE 4" OF TOPSOIL. THE TOPSOIL WILL BE PAID FOR WITH SODDING TYPE LAWN BY THE S.Y. AND
	2104.52	SALVAGE SISN, TYPE C	
	2105.52	STUPSOL BURROW (EV) GINNON BURROW (LV) GINNON BURROW (LV)	
	2331 50 2331 51 2331 51	DA AGGREGATE BASE PLACED CL 5-A (P) LY 4,100 1,313 1,315 1,313 1,315 1,	•
	2357_50 0411_60 0411_60	Dia TYFE 41 WEARING COURSE MIXTURE DN 1755 1735 ITYFE 31 BASE COURSE MIXTURE DN 1755 1735 A TYFE 31 BASE COURSE MIXTURE DN 1755 1735 A BITUMINDUS MAT FUR TACK COAT CAL 1135 1145 DI CONCRETE BENCH PAD LS 1 CONCRETE BENCH PAD LS 1 CONCRETE BUS SHELTER PAD SY 14 CONCRETE BUS SHELTER PAD SY 14 CONCRETE BUS SHELTER PAD SY 14 CONCRETE DIS SHELTE	1
		STEEL SHEET PILING (YEMPURARY) I 12 C.M. PIPE CULVERT EACH SO EACH SO SO SO SO SO SO SO SO SO SO	
	2503.51	1 2' R.C. PIPE SEWER DES 3006 LF 310 432	4
	2503.54 2503.54 2503.54		-
		11 INSTALL 12' PC PIPE SEWER LF 52 50 50 50 0.3 30' STEEL CASING PIPE (JACHEDZAUGEPED) LF 50 0.1 30' STEEL CASING PIPE (JACHEDZAUGEPED) LF 50 0.1 FELOCATE IRRIGATION SYSTEM LS 1 0.2 FELOCATE HYDRANT & VALVE EACH 3 0.3 FELOCATE WORK & VALVE EACH 3	
	USU4.61 USU4.61 USU4.61	0.3 6 WATER MAIN DUCTILE IPUN	
	2506 5 2506 5 2506 5	AN WATER MAIN FITTINGS 01 CONST. DRAINAGE STRUCTURE, DES COR'S LE 01 CONST. DRAINAGE STRUCTURE, DES F 01 CONST. DRAINAGE STRUCTURE, DES H 10 CONST. DRAINAGE STRUCTURE, DES H 10 CONST. DRAINAGE STRUCTURE, DES H 10 CONST. DRAINAGE STRUCTURE, DES H	
	2306.5	ÓR PÉCIDINSTRUCTURE LE 104 23 23 23 23 23 23 23 23 23 23 23 23 23	
	2506.5 6 8020 2515	21 INSTALL CASTING 2ACH 2 22 ADJUST FRAME AND RING CASTING EACH 10 22 ADJUST FRAME AND RING CASTING EACH 10 24 ADJUST FRAME AND RING CASTING (SANITARY EACH 4 02 ADJUST FRAME AND RING CASTING (SANITARY EACH 4 01 4 CONCRETE WALK 5F 22,520 01 4 CONCRETE FAVING STONE PAVEMENT 5Y 1,910	
	2531.5 2531.5 2531.5	07 CUNCPETE PAVING STUNE PAVEMENT 01 CUNCPETE CURB AND GUTTER, DESIGN B618 LF 4,100 01 CUNCRETE CURB AND GUTTER, DESIGN B612 LF 1,906 1,906 4,000 02 CUNCPETE CURB, DESIGN 8612 LF 400 400	
	2531.5	03 CUNCPETE MEDIAN 178 100 178 178 178 178 178 178 178 178 178 178	
	2535.5 2545.5 2545.5	OI BITUMINDUS CURB DI ELECTRIC LIGHTING SYSTEM 'A' DI ELECTRIC LIGHTING SYSTEM 'B' LS I I I I I I I I I I I I I	
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	0564.6	13 CUNCRETE FUDTING EACH 58 13 CUNCRETE FUDTING EACH 2 102 FAVEMENT MESSAGE (LEFT ARROV > PAINT EACH 2 102 FAVEMENT MESSAGE (LT-THRU ARROV > PAINT EACH 2 102 FAVEMENT MESSAGE (THRU ARROV > PAINT EACH 2	
	0564.6 0564.6 0564.6	O2 FAVEMENT MESSAGE (THRU ARROW) FAINT EACH 2 2 O2 FAVEMENT MESSAGE (RIGHT ARROW) FAINT EACH 5 5 O2 FAVEMENT MESSAGE (ONLY) FAINT EACH 9 9 O2 SIGN FANELS INTERNALLY ILLUMINATED EACH 4 O2 SIGN FANELS INTERNALLY ILLUMINATED EACH 4 O3 4* SOLID LINE - YELLOW FAINT LF 3.497	
	0 <u>564.6</u> 0 <u>564.6</u> 0 <u>564.6</u>	03 4 DOUBLE SOLID LINE YELLOW FAINT LF 945	
	0564.6 0564.6 0564.6	O.3 4' BPOKEN LINE - WHITE POLY-PREF. LF 215 O.3 24' SOLID LINE - WHITE POLY-PREF. LF 215 SOL3 36' SOLID LINE - WHITE POLY-PREF. LF 470 SOL3 36' SOLID LINE - WHITE POLY-PREF. LF 470 SOL3 36' SOLID LINE - WHITE POLY-PREF. LF 470	 4 4
•	(7) 2575. (7) 2575. (7) 2575.	SULTE CENTRE ACT TRAFFIC CENTREL SIG SYS I SIG	
	0565.6	OI EMERGENCY VEHICLE PREEMPTION SYSTEM	

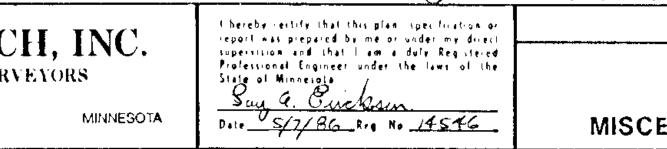
100% SAP 02-606-08

- 50% SAP 02-606-08 50% MSAP 127-020-09
- 100% MSAP 127-020-09
- ICCM CITY OF FRIDLEY Local
- PARTICIPATION BACED ON STATE AID Hydraulics Letter
- 50% MN 0205-6812 25% SAP 02-606-08 25% MSAP 127-020-09
- SODDING TYPE LAWN IS TO INCLUDE 4" OF Topsoil. The topsoil will be paid for with sodding type lawn by the S.Y. and NO additional compensation will be made.



	M #	
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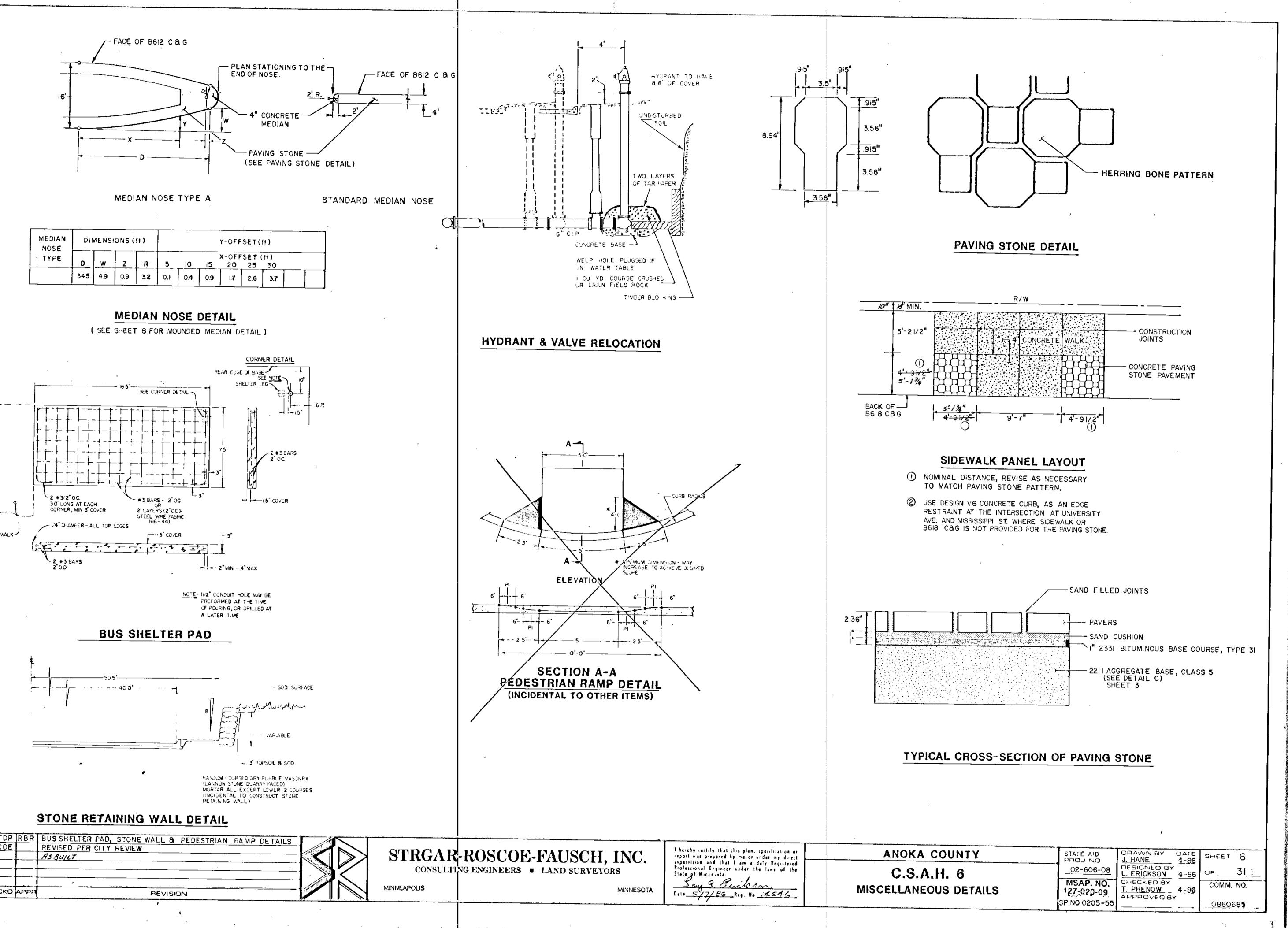
in a star to	<u></u>								<u> </u>		STORM	I SEWE	R	<u></u>				<u> </u>		•					
STRUCT. NO.	STATION	LOCATION OFFSET LT. AT.	CONSTRUCTION DESIGN M.H. C.B.	TOP OF CASTING OR INLET ELEV.		F & I CASTING ASSEMBLY TYPE A	•		EMOVE	12* () R.C.P.	FURNISH 15" (R.C.P,	B INSTALL 18" (9) R.C.P.		INSTALL 12" R.C.P. LIN, FT.	27" A.C.P. LIN. FT.	30" R.C.P. LIN. FT.	33" R.C.P. LIN. FT.	36" R.C.P. LIN. FT.	APRON	FLOWS TO	INLET ELEV.	K GRADE CL (1)	FOR ST	HEIGHT FRUCTURE I.FT) FINAL	
1 2	9+73 10+16	35.0 50.0	EXISTING Strue In good shape	856.20			X X						· · · · · · · · · · · · · · · · · · ·											1	
<u>3</u> 4 5	9+83 9+86 9+86	10.0 25.0 27.5 42.5	C OR G	856.84	852.76		×			6										3	852.04	: 12,30	3,93	3 4 5	
20 <i>4</i> 8	9+86 18+/ 5 12+65	77.0 36.0	F C OR G	862.50(4) 860.24					_	/6	169	22								20 13 11	858.70 344.23 855./3	0.69 0.55 IV 0.85	. 4.7 3.6	1.77 20 16.18 8 3.61 9)A
10 11 12 13 14	12+65 14+40 17+10 18+/ 5 18+13	24.0 43.5 55.0 55.0 36.0	H F F F	860.62 862.05 861.73 860.53	857,40 855./3 853.72				X	61		271 10 5 80								9 12 13 17	856.48 853.72 853.39 845.74	1.51 0.45 0.51 1.43	3.6 3.0 6.6 7.6 [14.8	3.07 10 6.77 11 7.66 12 14.15 13 14	i. F
15 16 17 18 19 20	18+13 18+25 18+25 18+25 18+25 19+20 18+75	25.0 25.0 25.0 39.0 26.0 55.0	F CORG	861.27 860.72 860.79 861.17	845.7 4 856.97	2) A C 2) A C	X			14			93							<u>19</u> 17	844.69 856.52		<u>z 15.9</u> 4.0	·	: [7] [8]
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MISCELLANEOUS TABULATIONS	S.P. NO.0205-55	APPROVED B*	AND-000



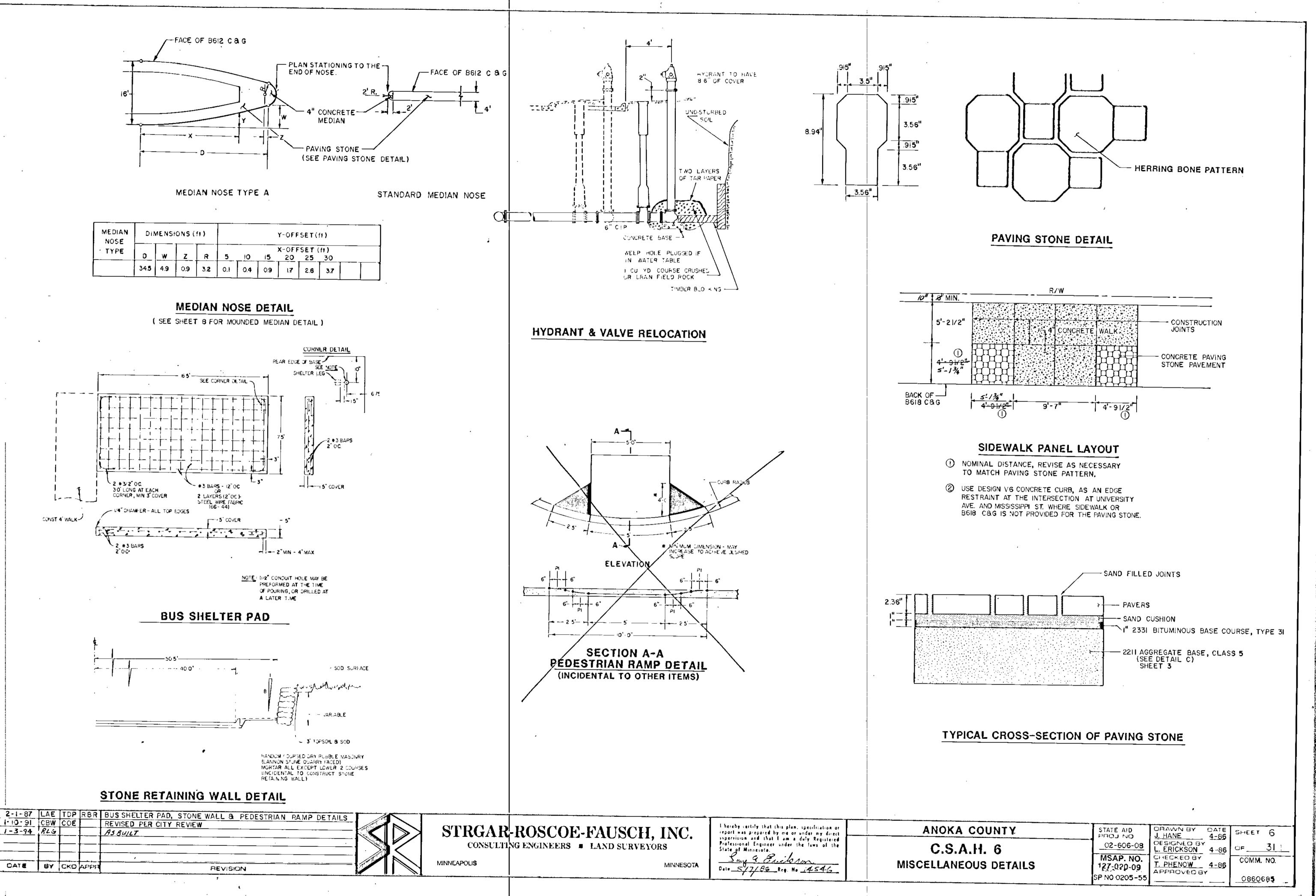
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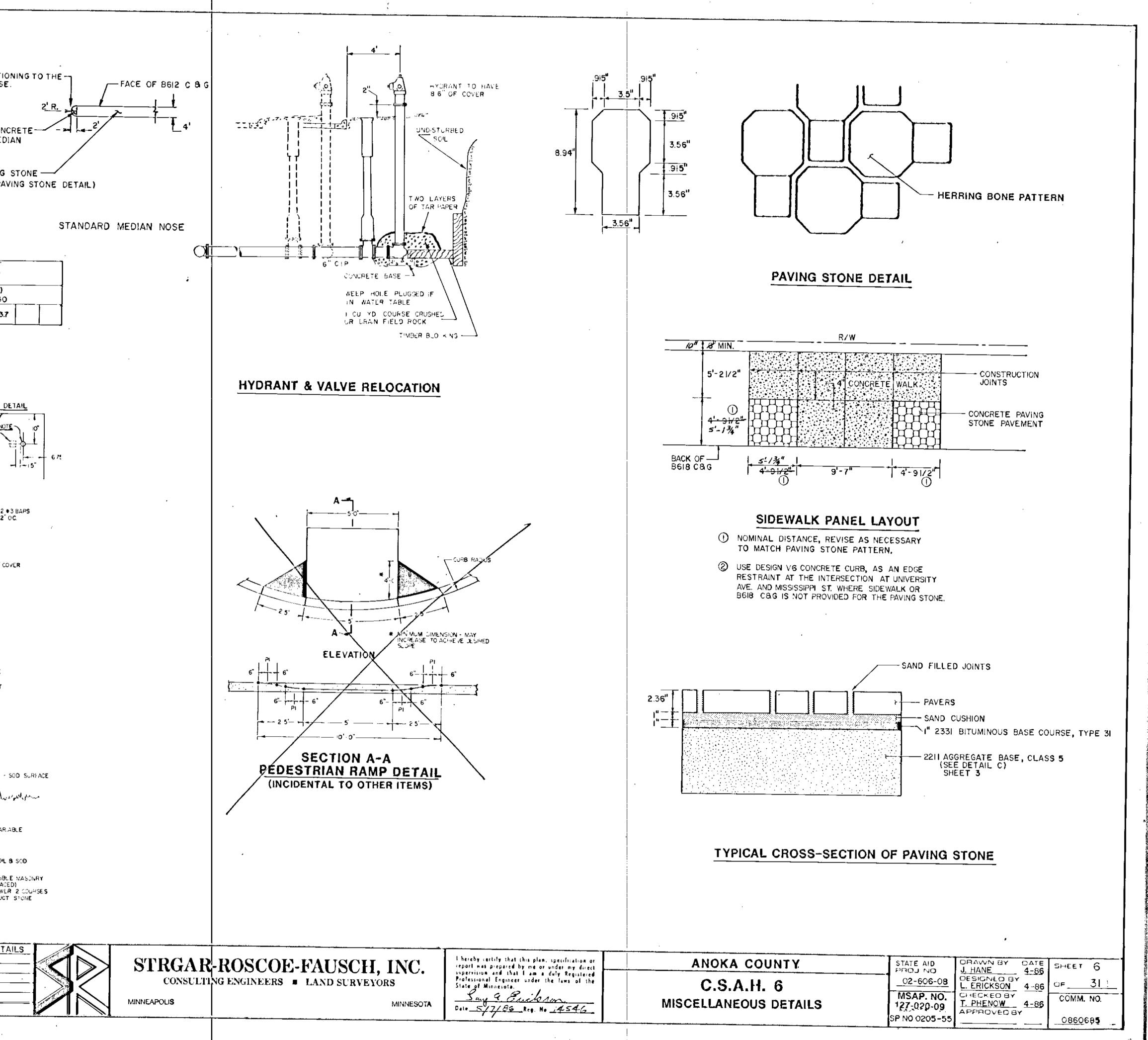
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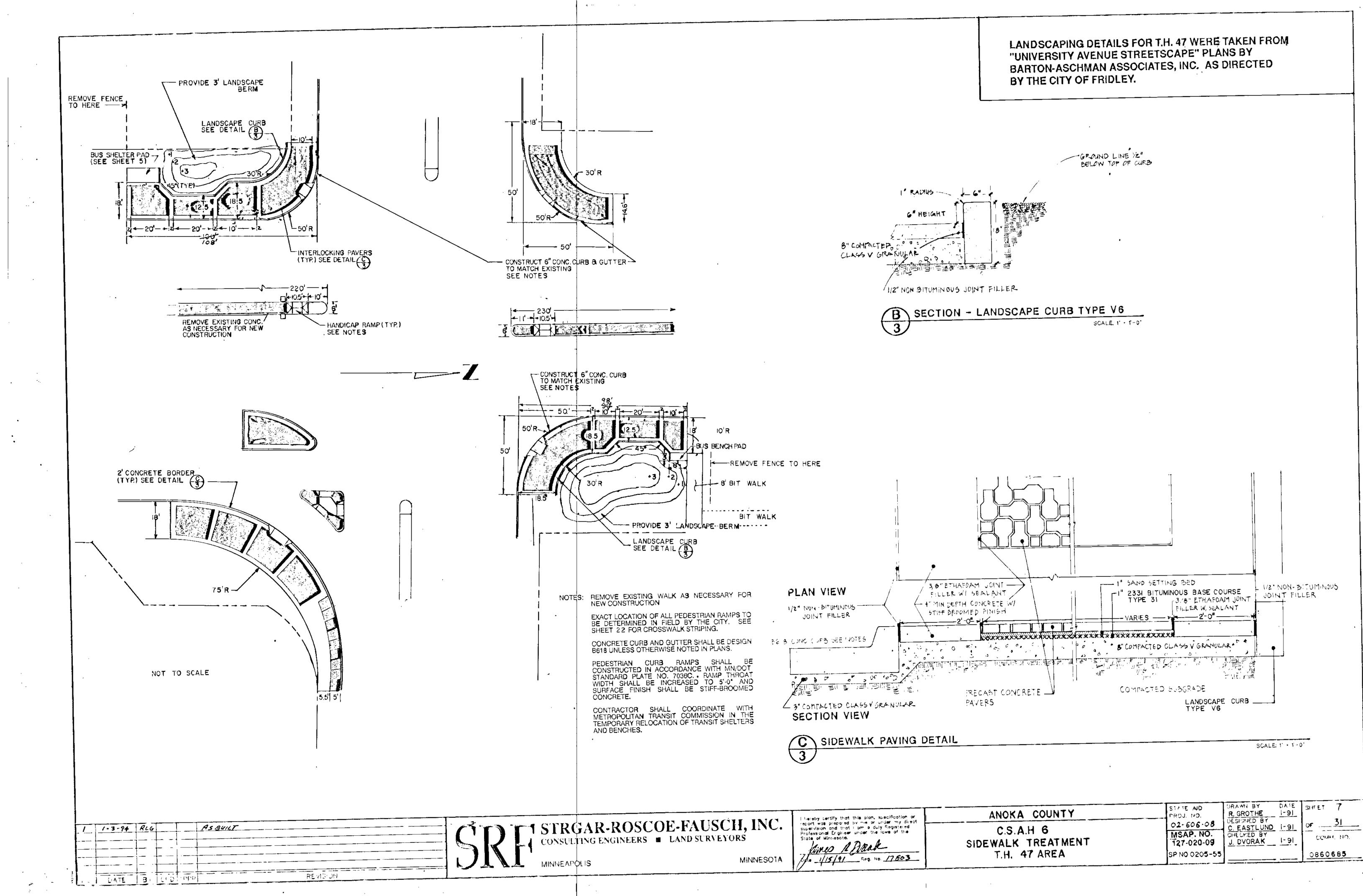
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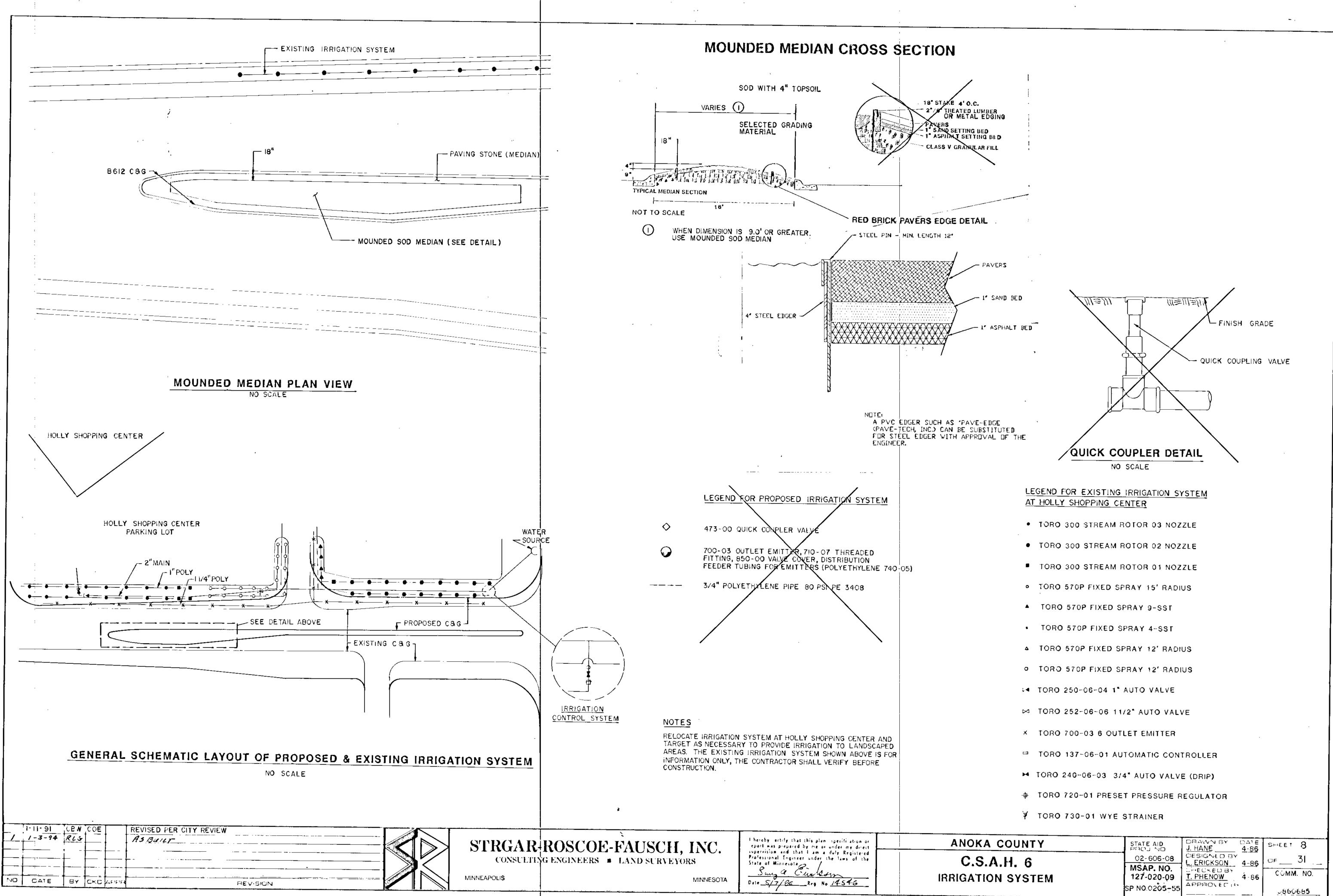
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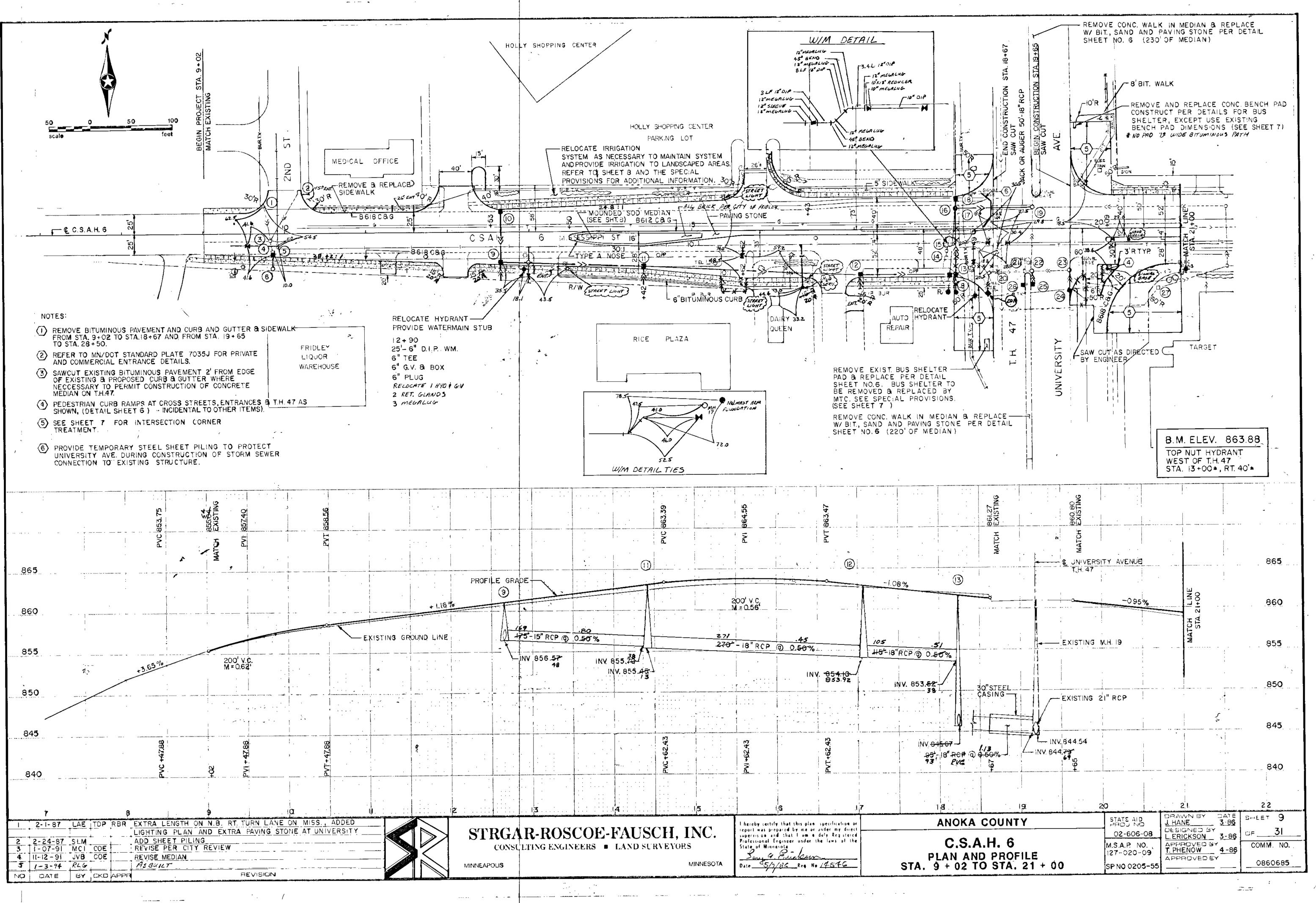
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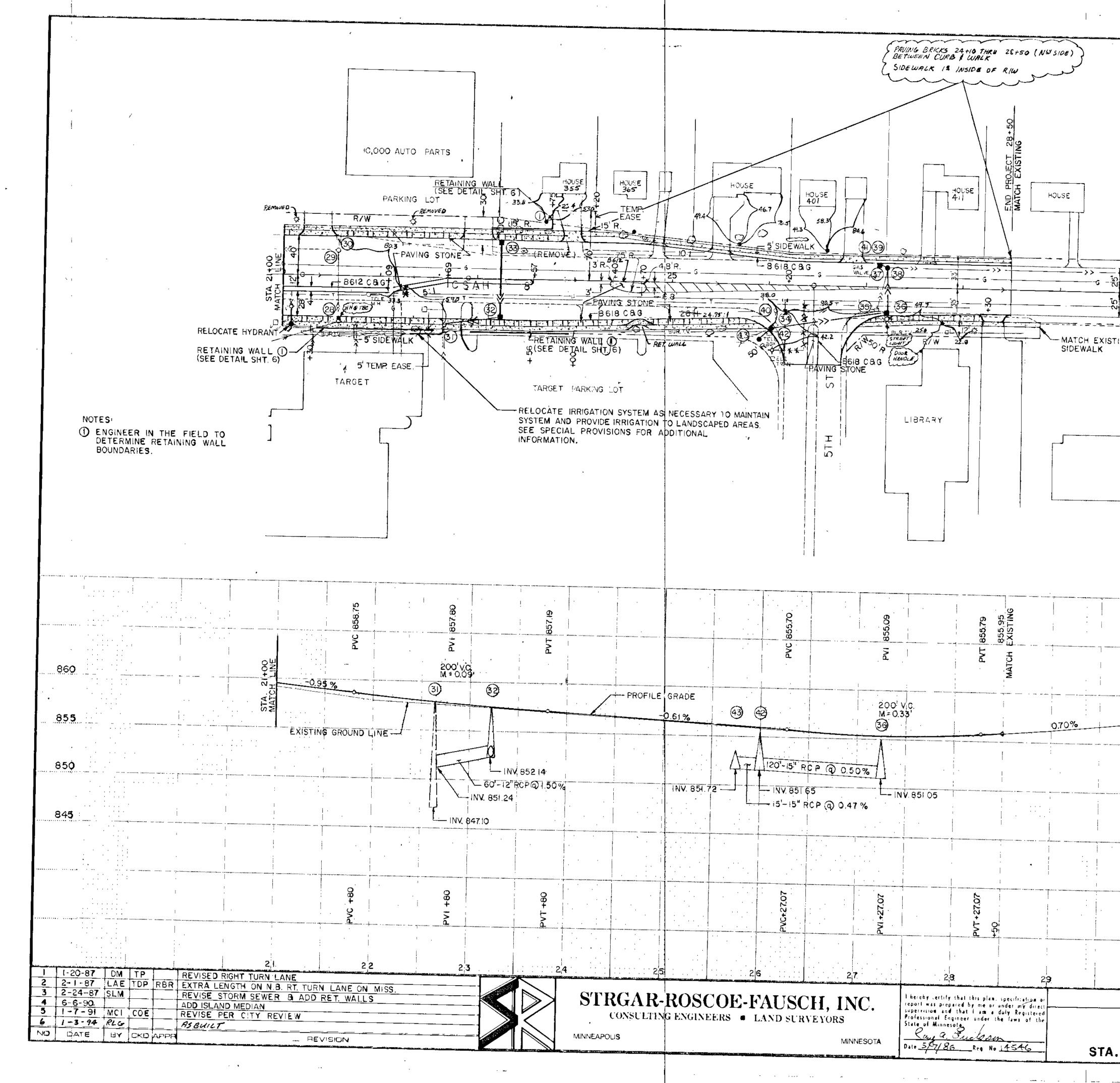




ANOKA COUNTY	STATE AND PROJ. NO.	R. GROTHE 1-91	SIFET 7
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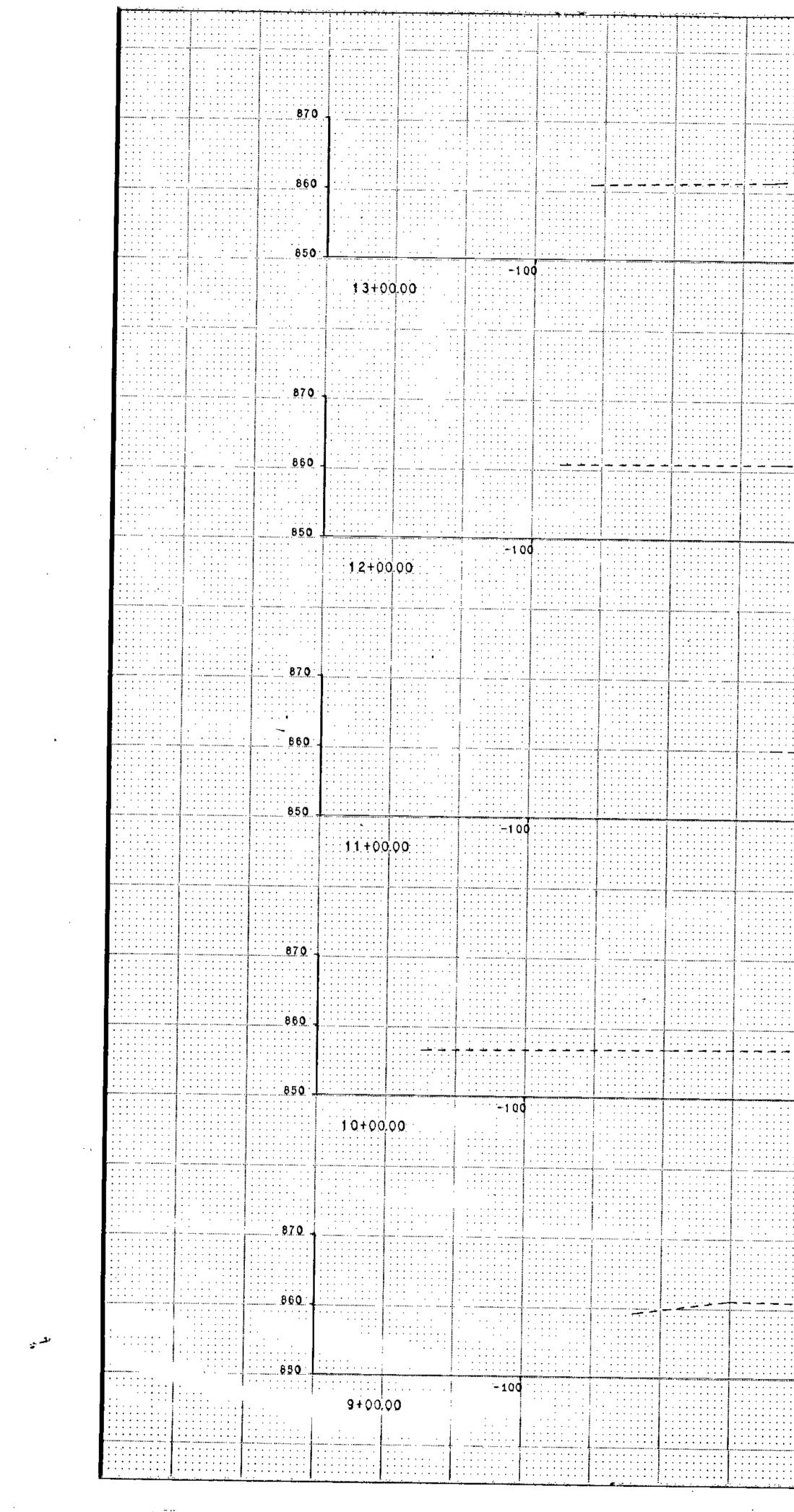


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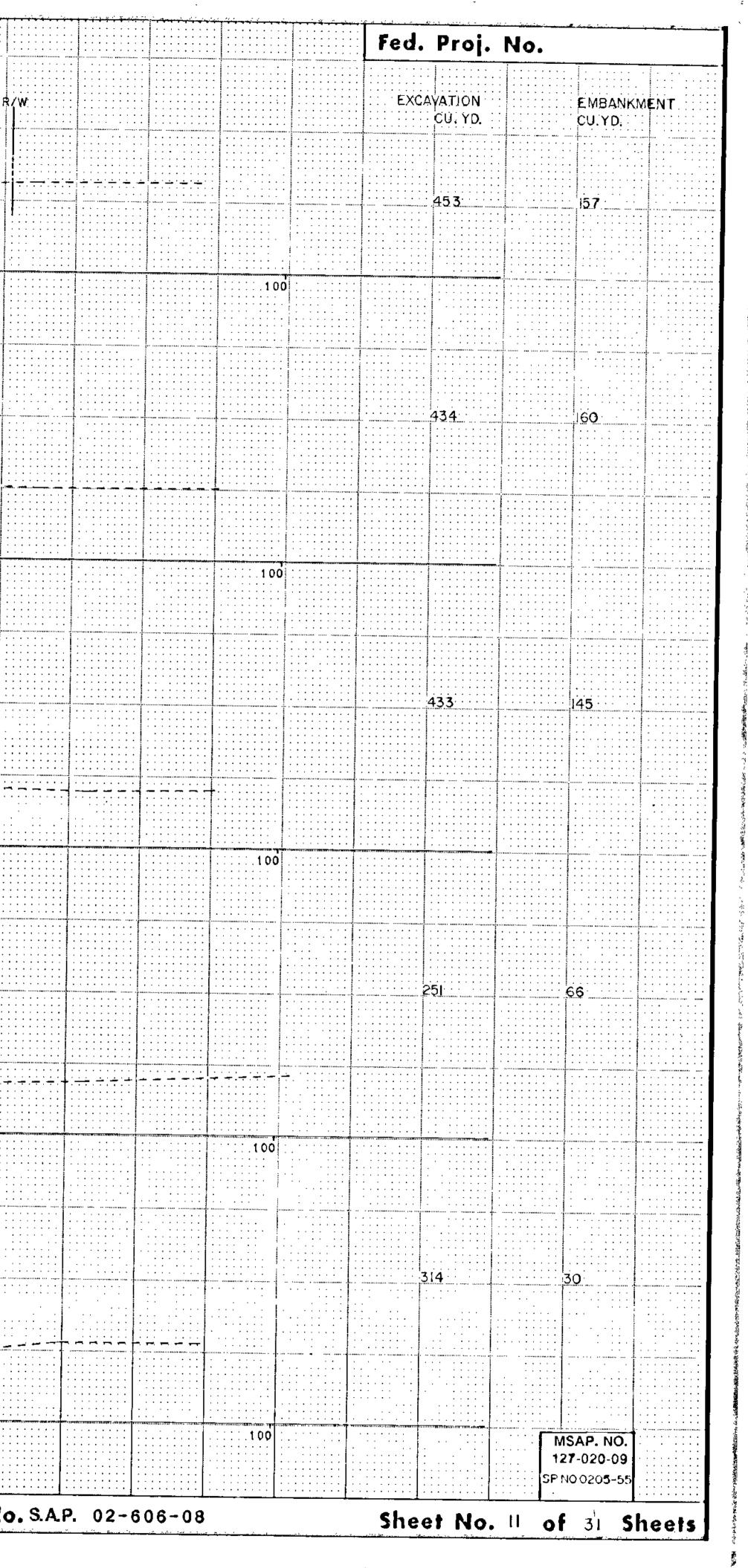


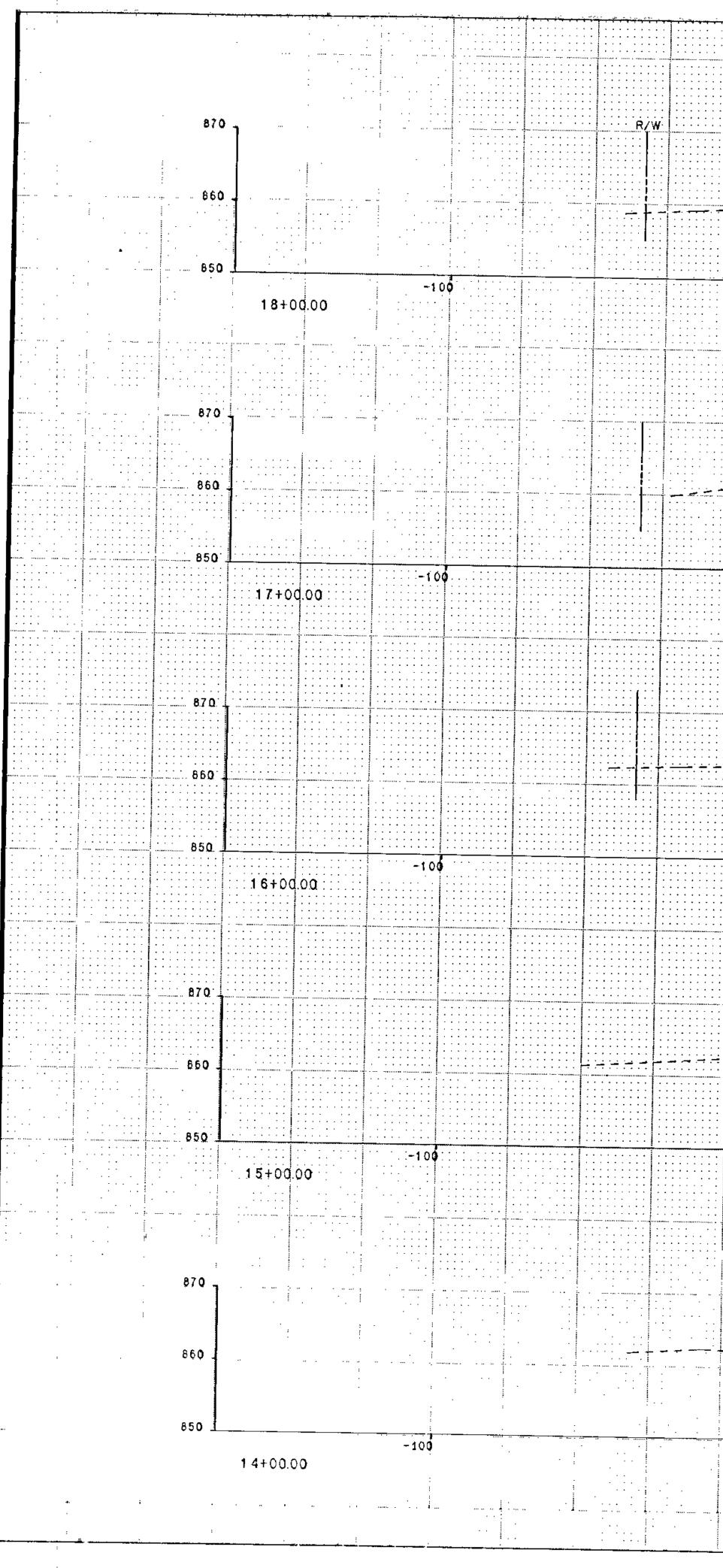
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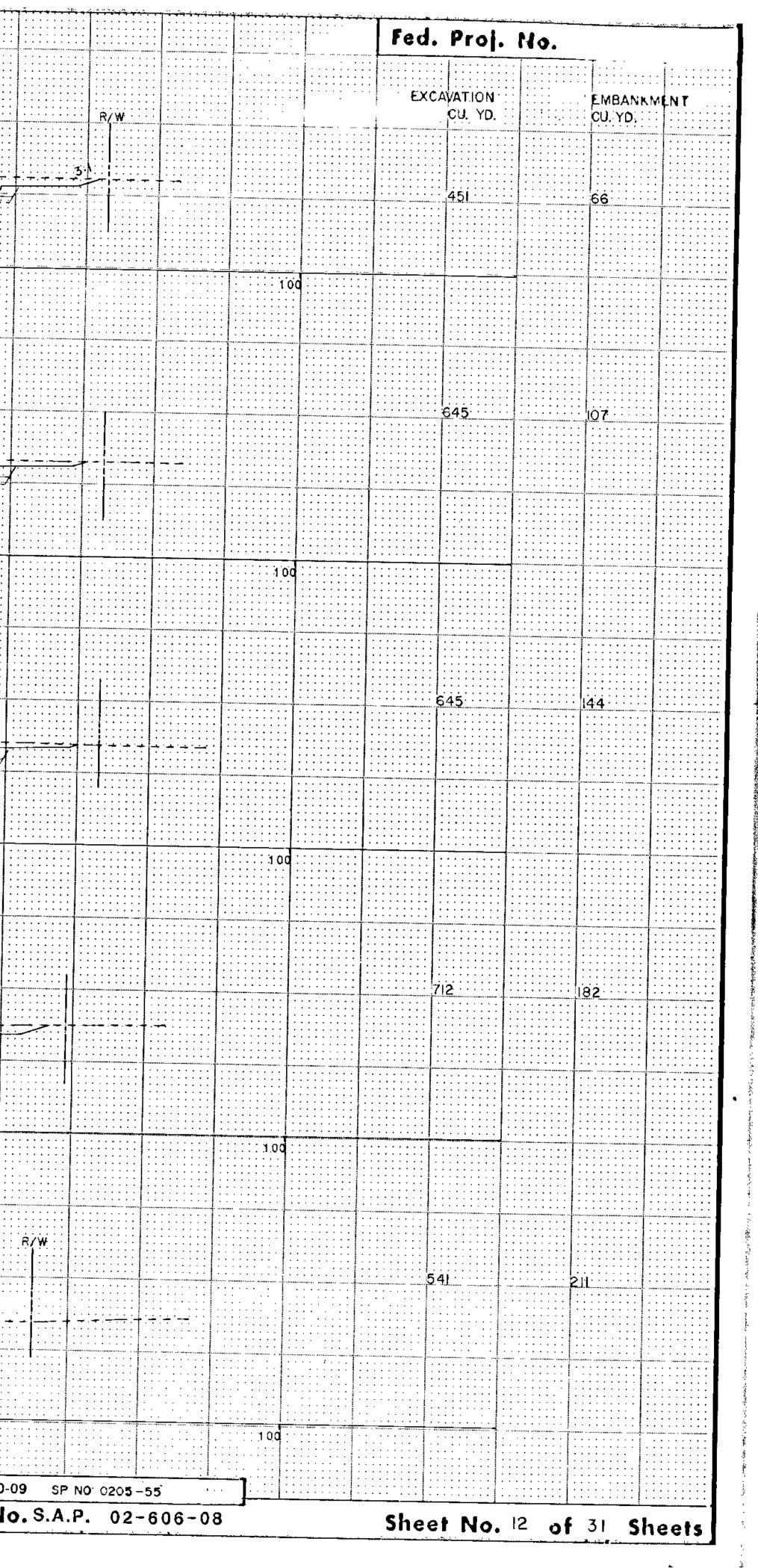
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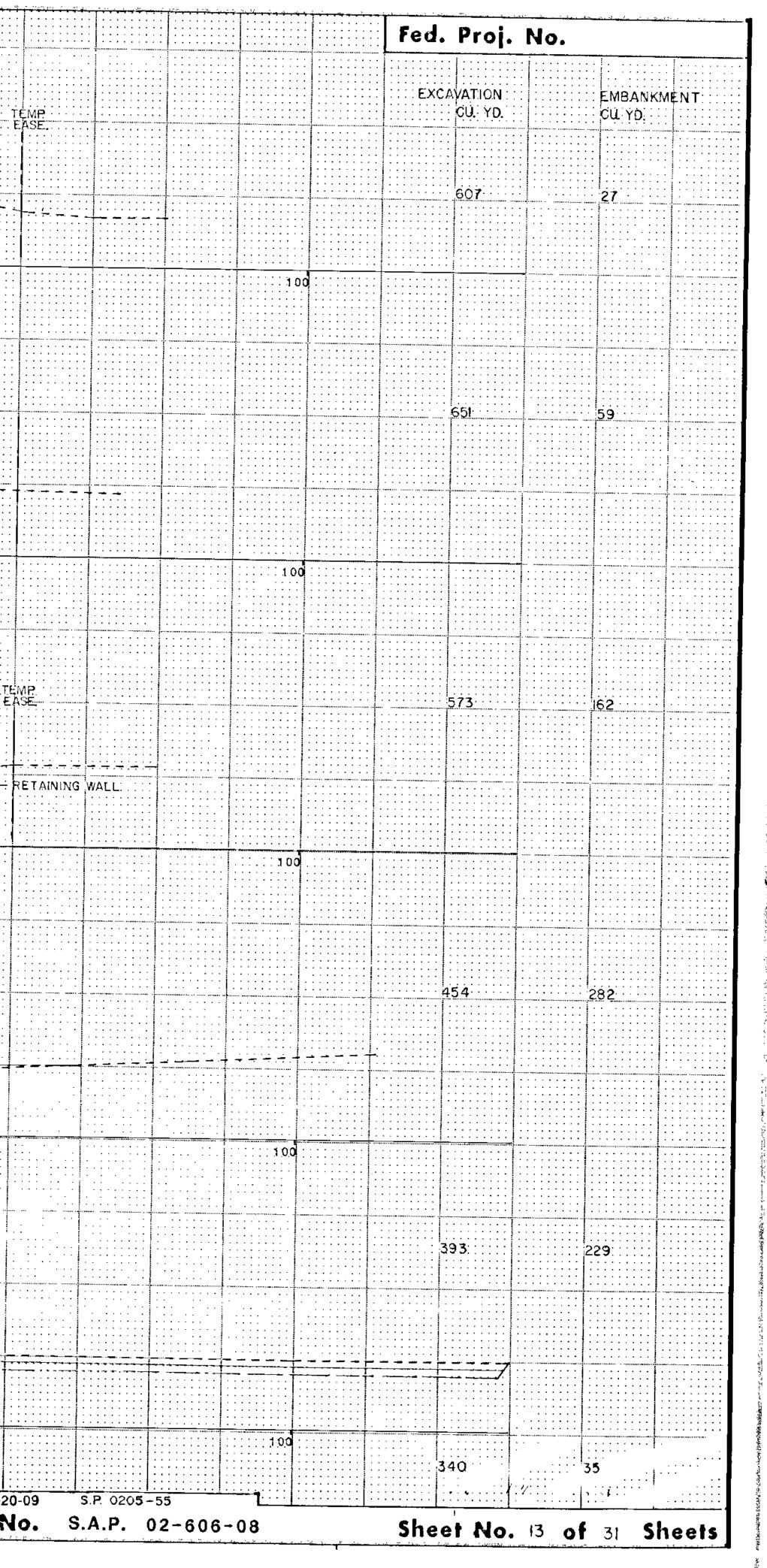


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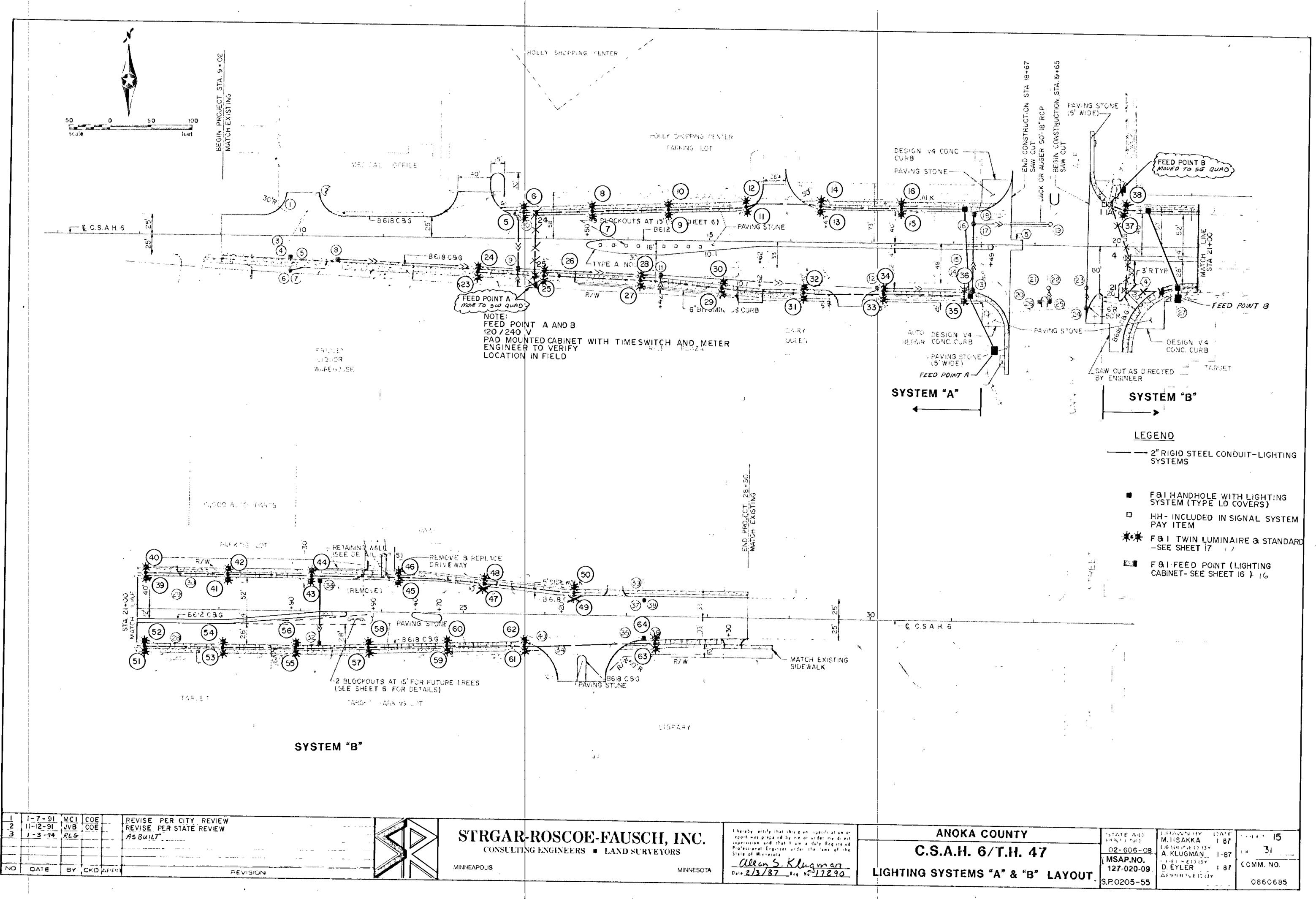
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ELECTRIC LIGHTING SYSTEM "A" 120/240 V FEED POINT A

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TYPE C LUMINAIRES SHALL BE 100 WATT, 240 VOLT SODIUM VAPOR LIGHTS. SEE SPECIAL PROVISIONS FOR COMPLETE SPECIFICATION.

TYPE D'LUMINAIRES SHALL BE TYPE C'LUMINAIRES EQUIPPED WITH A HOUSE SIDE SHIELD.

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NO		BY		APPR	REVISION

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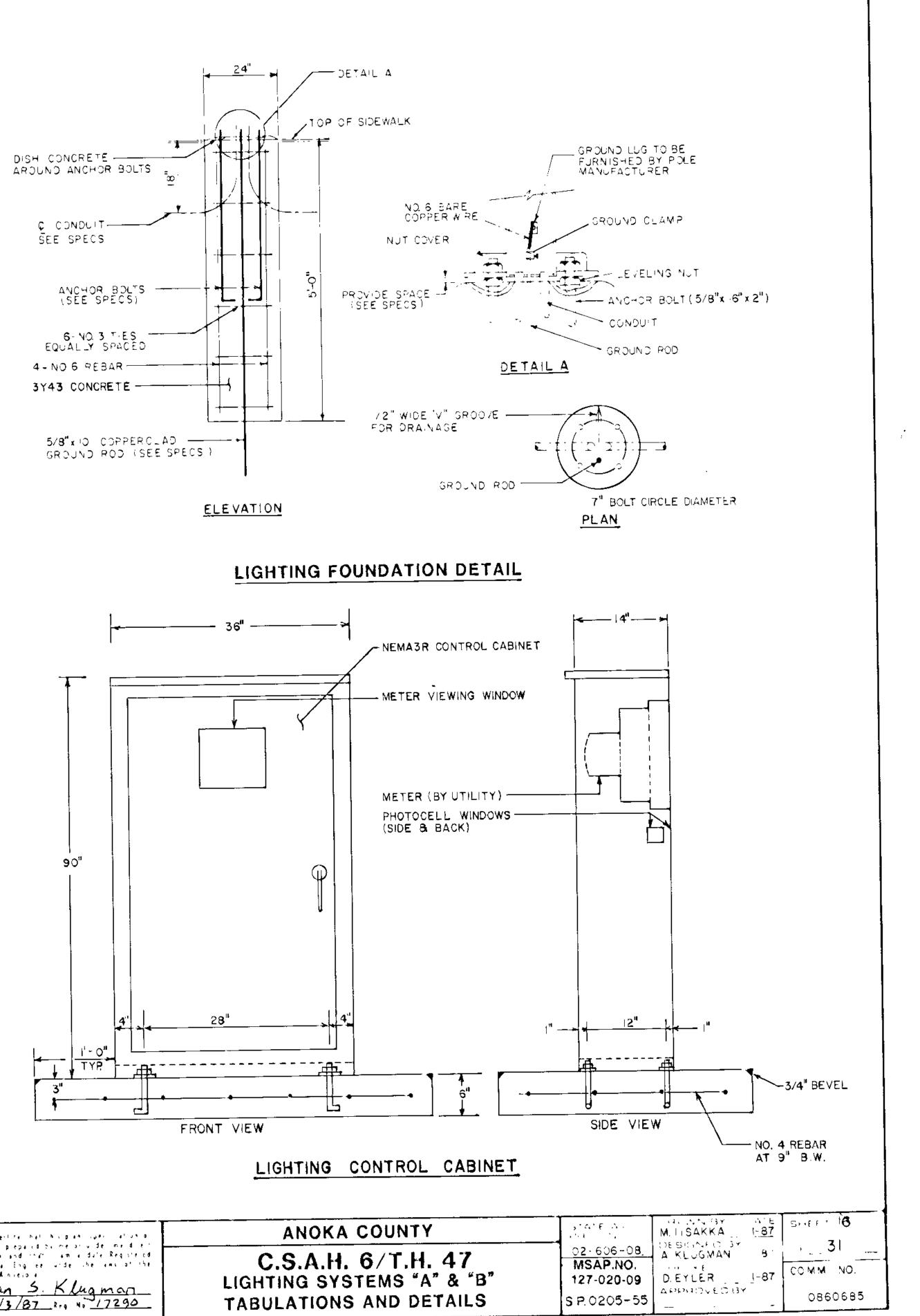
ELECTRIC LIGHTING SYSTEM "B" 120/240 V FEED POINT B

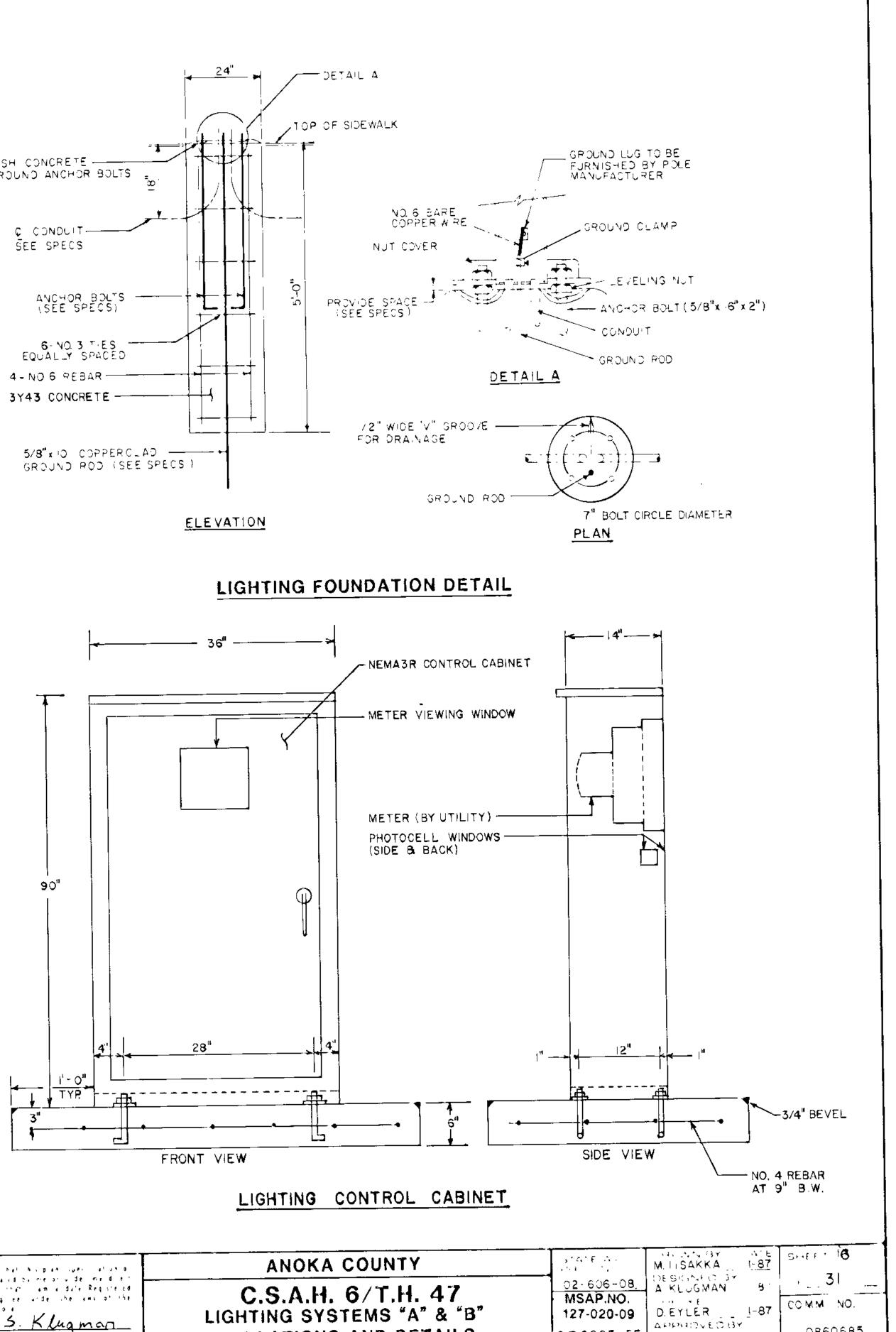
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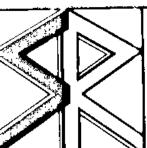
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45 50	26-35			D
51 52_	21 • 10			c
53 54	22+05	_		с
55 56	22+95			с
57 58	23+85			с
59 60	24+80			c
61 62	25 + 75			c
63 64	27+35			c
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CABINET PAD DIMENSIONS



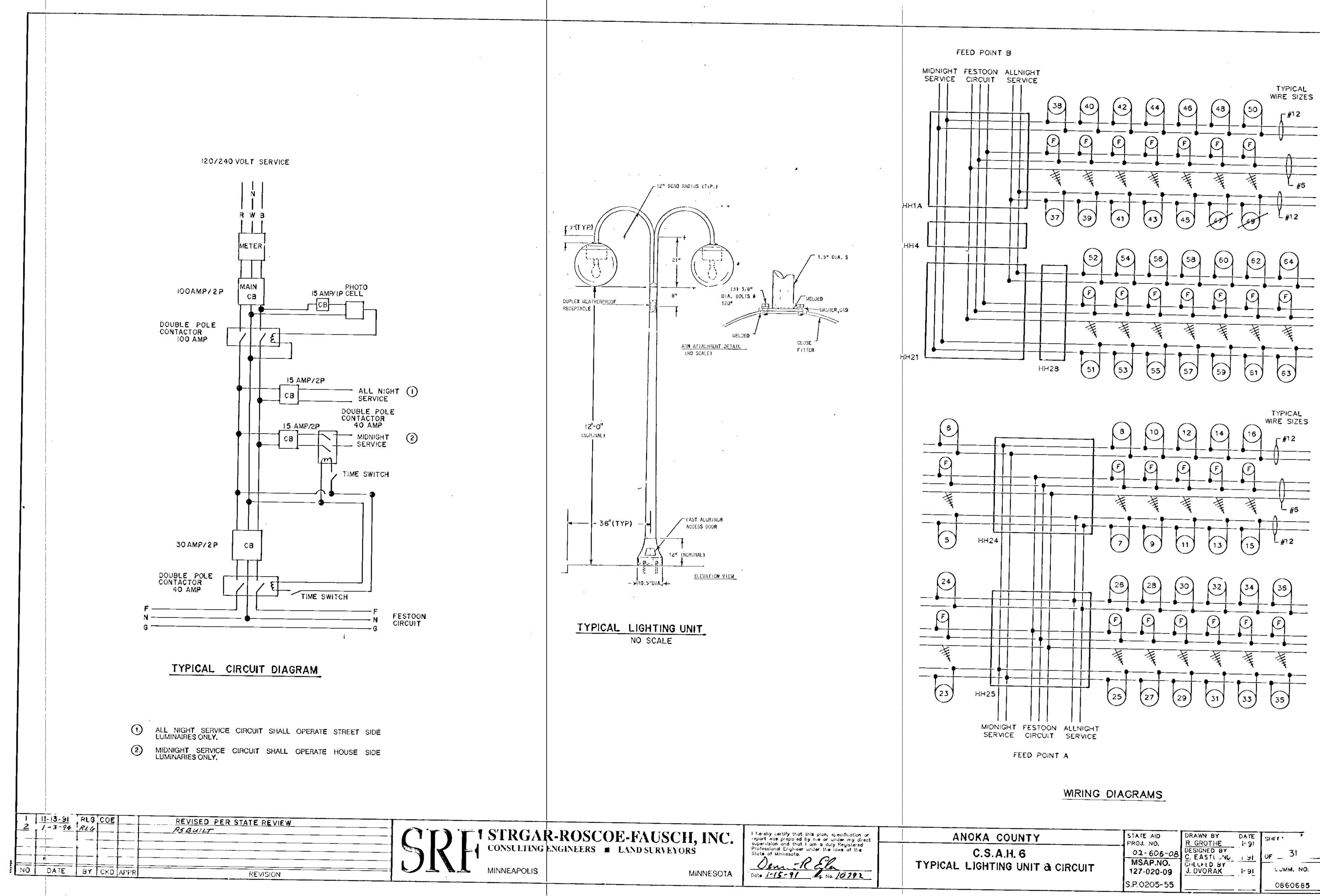
MINNEAPOLIS

STRGAR-ROSCOE-FAUSCH, INC. CONSULTING ENGINEERS

LAND SURVEYORS MINNESOTA

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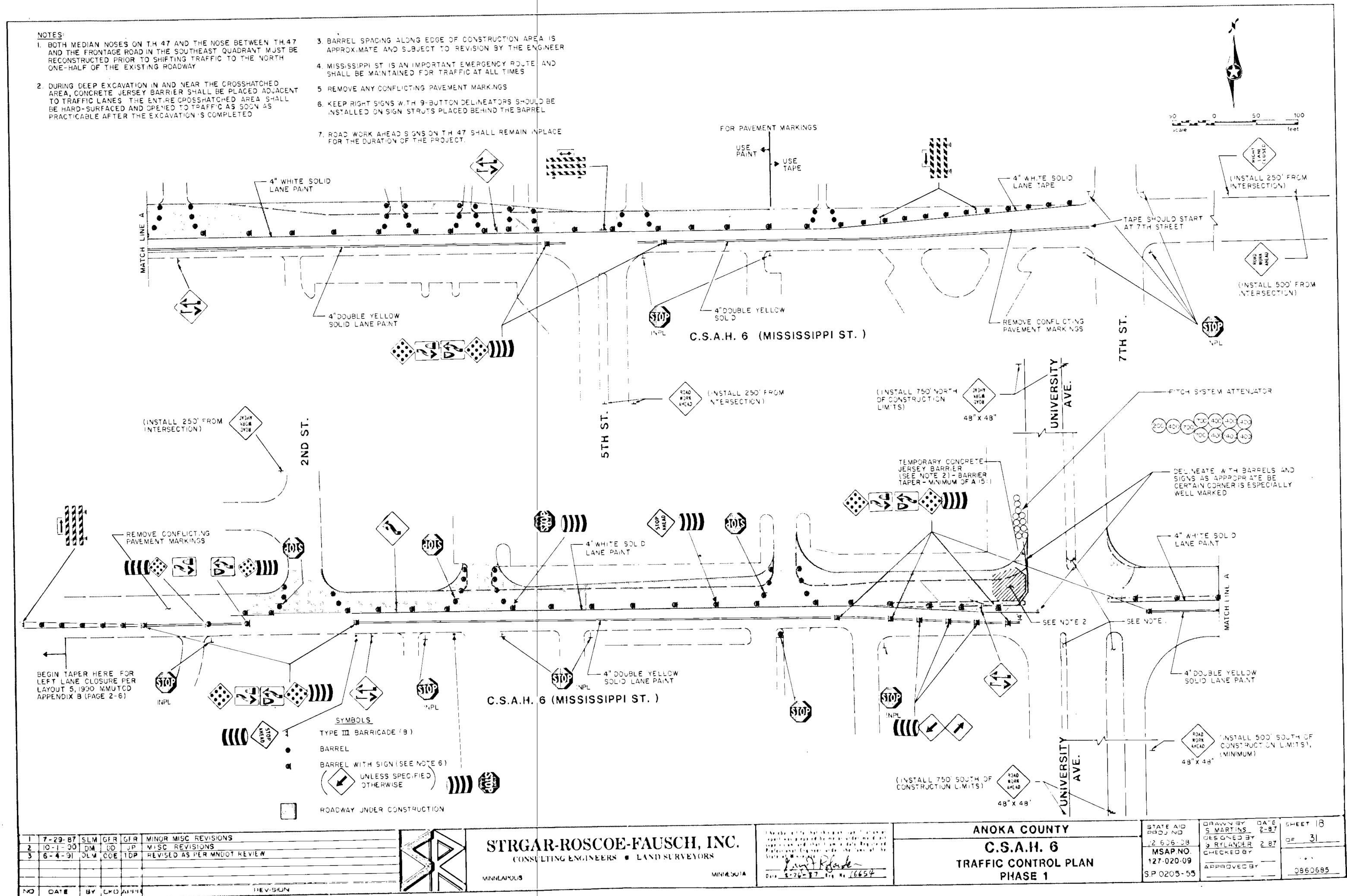
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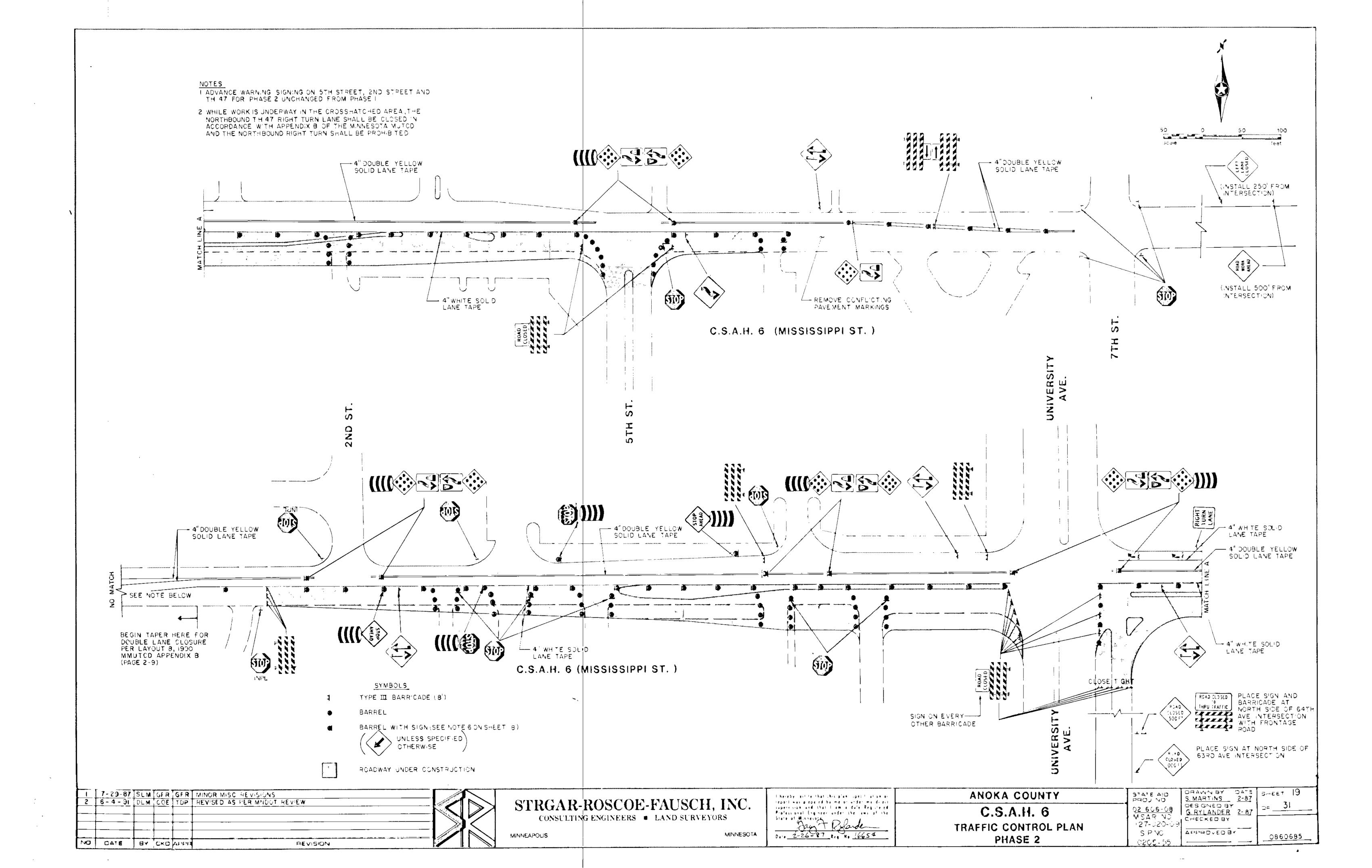
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ANOKA COUNTY		DRAWN BY DATE	SHET
	PROJ. NO. 02-606-08 MSAP.NO. 127-020-09	R. GROTHE I-91 DESIGNED BY C. EASTLUNG I 91 CHLCHED BY J. DVORAK I-91	OF _ 31
	S.P.0205-55		0860685



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HANSER HANSER HANSER HANSER HANSER HANSER HANSER 114 55.25 25.25	M.U.T.C.D. CODE	SIZE	INSERT	QUA PHASE I	NTITY PHASE II	M.U.T.C.D. CODE	SIZE	INSERT	QUA PHASE I	NTITY PHASE II	
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SIGN LOCATIONS ARE APPROXIMATE. THE EXACT Locations will be determined by the engineer in the Field.
ALL SIGNS AND BARRICADES WILL BE PROPERLY Weighted with sandbags.
ALL BARRICADES WILL HAVE REFLECTIVE MATERIAL ON BOTH SIDES.
ALL BARRICADE MARKINGS WILL BE SLANTED IN ACCORDANCE WITH THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DeviceS.
ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, Including appendix 'B', dated march 1990
ADDITIONS OR CHANGES TO THIS PLAN MAY BE MADE AT ANYTIME AS DETERMINED BY THE ENGINEER.
ADVANCE NOTICE SIGNS TO BE INSTALLED ONE (1) WEEK Before construction begins, and removed once construction has commenced. See special provisions.
REMOVE OR COVER ANY CONFLICTING TRAFFIC CONTROL DEVICES.
CONSTRUCTION SIGNING PHASE I & II QUANTITY

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<u>127-020-09</u> S.P. <u>0205-55</u>

Sheet No. 20 of 31 Sheets

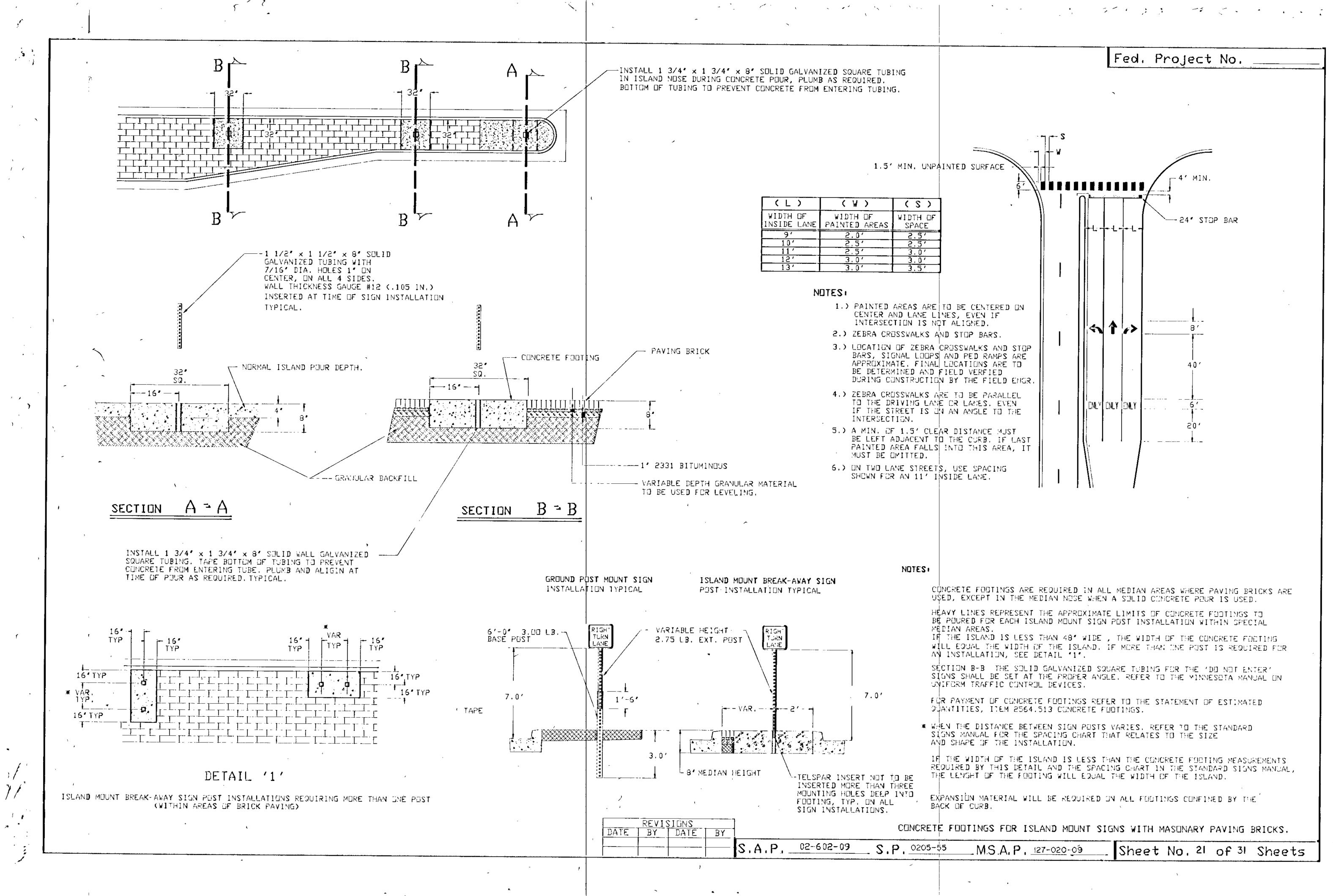
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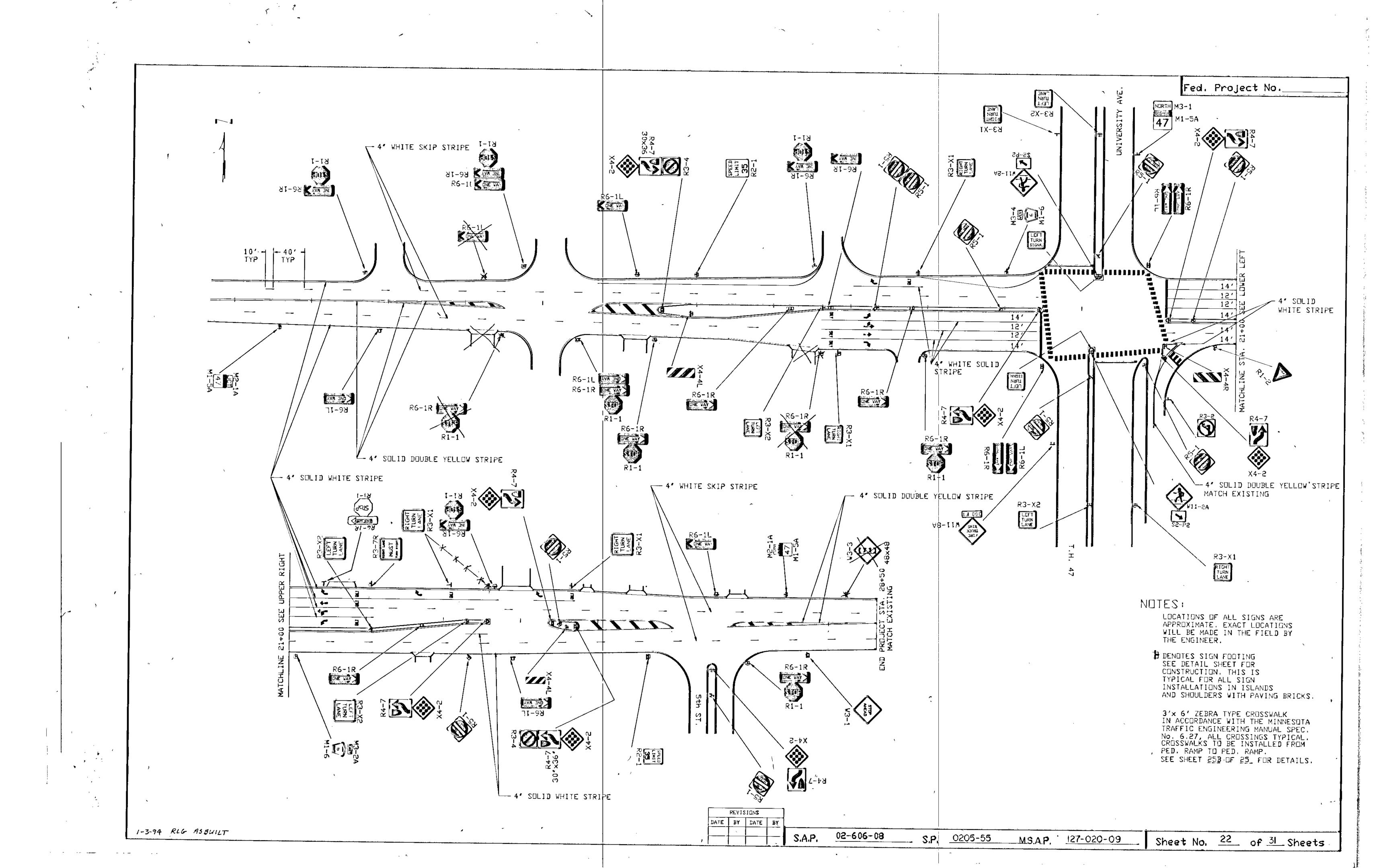
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c	R6-1R R1-1	36" × 12" 30" × 30"			10 10	0 0		DNE WAY (RIGHT) STOP	7.0'	W3-3	48" × 48"	16.00	1	0		SIGNAL AHEAD	7.	.0'
	R1-2	36*×36*×3			1	0	Viel	YIELD	7.01	W11-8A	48° × 48°	16.00	. 0	1	FIRE TRUCK XING	XING WARNING	7.0	. 0 ′
		36' × 12' 36' × 12'			6 9	0	K INE VA	UNE WAY (RIGHT) UNE WAY (LEFT)	7.0'		12" × 48"	4.00			300 FT			
		36* × 48*		00		0	SPEED LIMIT 35	SPEED LIMIT	7.0′	₩10-1 0	1. 24" × 30"	5.00	2 MOU SIGN/	INTED ON Al Pole	LEFT TURN SIGNAL	LEFT TURN	7.0	. 0 ′
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	R4-7	30" × 36"	7.5	0	2			KEEP RIGHT	7.0′	M2-1A M1-5A	21" × 15" 24" × 24"	2.19 4.00 4.30	5	0 0		JCT SIGN RDUTE MARKER	7.0	0'
		18" x 18" 24" X 30"	5.0	5 i 0 e	6	0		HAZARD MARKER	7.0'	M3-2A M1-6	24" × 12" 24" × 24"	2.00 4.00	1	0 0	EAST 6 ELLANTY	CARDINAL DIRECTIONAL MARKER ROUTE MARKER	7.0	
ŀ	X4-2	18" × 18"	2.2	5 6	5	0		HAZARD MARKER			24" × 12"	2.00	1	0		CARDINAL DIRECTIONAL MARKER		
		30' × 30'	6.2		4	1		RIGHT TURN LANE	7.0'		24" x 24" 12" x 36" 24" * 24"	4.00 3.00	1	0		ROUTE MARKER	7.0	0 ′
	R3-X2 R3-7R	30" × 30" 30" × 30"	6,25		5	0	Riam we	LEFT TURN LANE RIGHT TURN LANE	7.0'	X4-4R	12" × 36" 24" * 24"	3.00		0	8 2		4'-5'	5'
1	R5-1	30" × 30"	6.25		0	0		DO NOT ENTER	7.01							MARKER	4'-5'	5'
	W3-1	48 * × 48*	16.0	0	1	0	STUP	STOP AHEAD	7.01			·				L	,	NÜTES: 1. LOCATIONS OF ALL SIGNS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
	1		_ !	1	I	I	, 				, ,					-		2. ALL SIGNS ARE TO BE INSTALLED IN CONCRETE WITH A BREAKAWAY BASE. SEE SHEET 25B OF 25 FOR INSTALLATION DETAILS, AND BID ITEM 2564.513 3. SEE SHEET 25C FOR SIGNING DETAILS
Ì		RLG ASBUILT										a l	REVISI	DATE BY), -			4. ALL LANE TAPE OR TEMPORARY LANE MARKINGS MUST BE REMOVED AFTER FINAL STRIPING IS COMPLETE.

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ABBREVIATIONS

-	SIGNAL FACE PHASE "3" NO. "I"
BL	BLUE
	BLUE WITH BLACK TRACER
	BLACK
	BLACK WITH WHITE TRACER
5R. GR.	BARE GROUND
	CHECK SWITCH
CLR	CLEAR
D2-1(eg)	DETECTOR PHASE "2" NO. "1"
DNL	DOWNLIGHT
DWK	DON'T WALK
	EQUIPMENT GROUND
EVP	EMERGENCY VEHICLE PRE-EMPTION
F 54 I	FURNISH AND INSTALL
	FLASH/FLASHING
	GREEN
	GREEN WITH BLACK TRACER
	GREEN LEFT TURN ARROW
GRN	GREEN
	GROUND ROD
	GREEN RIGHT TURN ARROW
	GREEN THRU ARROW
HH	HANDHOLE
	HIGH PRESSURE SODIUM
-	INTERMEDIATE METAL CONDUIT
• –	JUNCTION BOX
LUM	
	MERCURY VAPOR
	NEUTRAL NONVETALLIC CONDULT
	NONMETALLIC CONDUIT
0	ORANGE

P4-i(eg) PB PB2-i(eg) PEC PED R R & S	ORANGE WITH BLACK TRACER PEDESTRIAN INDICATION PHASE "4" NO. "I" PUSHBUTTON PUSH BUTTON PHASE "2"-NO. "I" PHOTOELECTRIC CELL PEDESTRIAN RED REMOVE AND SALVAGE RED WITH BLACK TRACER RED LEFT TURN ARROW
RRTA	RED RIGHT TURN ARROW
RSC	RIGID STEEL CONDUIT
SOP	SOURCE OF POWER
SPR	SPARE
ST. LHT.	STREET LIGHT
STA	STATION
SW	SWITCH
SWD	SWITCHED
TDW	TELEPHONE DROP WIRE
WH	WHITE
WH/BLK	WHITE WITH BLACK TRACER
WLK	WALK
YEL	YELLOW
YLTA	YELLOW LEFT TURN ARROW
YRTA	YELLOW RIGHT TURN ARROW
YTHA	YELLOW THRU ARROW

	FOLLOWING STANDARD PLATES, APPROVED BY THE IGHWAY ADMINISTRATION SHALL APPLY ON THIS PROJECT.
	STANDARD PLATES
PLATE NO.	DESCRIPTION
* 8110 C	TRAFFIC SIGNAL BRACKETING
* 8111 B	TRAFFIC SIGNAL BRACKETING
¥ 8112 C	PEDESTAL FOUNDATION
* 8115 C	PEDESTRIAN PUSHBUTTON INSTALLATION
* 8118 C	SERVICE EQUIPMENT AND POLE
* 8119 C	GROUND MOUNTED CABINET FOUNDATION
* 8121 B	TRANSFORMER BASE WITH POLE BASE PLATE
* 8122 C	PEDESTAL AND PEDESTAL BASE
* 8123 B	POLE AND MAST ARM
* 8124 D	MAST ARM SIGNAL HEAD MOUNTS
* 8126 C	PIOO POLE FOUNDATION
* 8130 D	SAW CUT LOOP DETECTORS

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SYMBOLS

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EQG CONNECTION
EVP DETECTOR DIRECTION
LUMINAIRE NUMBER
SIGNAL BASE NUMBER
SIGNAL FACE NO. (PHASE "2" - NO. "1")
SPLICE

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EST	IMATED SIGNAL QUANTITIES-	-INFORMATI	ONAL	
ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITIES	
0564.602	INTERNALLY LIT SIGN-TYPE D	EACH	4	
2565.511	FULL T. ACT. T. CONTROL SIGNAL SYSTEM	SIG SYS		
0565.601	EMERGENCY VEHICLE PREEMPTION SYSTEM	LUMP SUM	1	
0565.603	3" RIGID STEEL CONDULT-INTERCONNECT	LIN FT	170	
0565.603	6 PR. #19 INTERCONNECT	LIN FT	2650	

NOTE: THE ABOVE QUANTITIES ARE FOR REFERENCE ONLY. FOR PAY QUANTITIES, COST SPLITS, AND ETC. SEE THE OVERALL PROJECT STATEMENT OF ESTIMATED QUANTITIES (SHEET 3 OF 31)

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State Proj. No. 0205-55

I HEREBY CERTIFY THAT SHEETS 24 THROUGH 31 (7 SHEETS) OF THIS PLAN SET WERE 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.

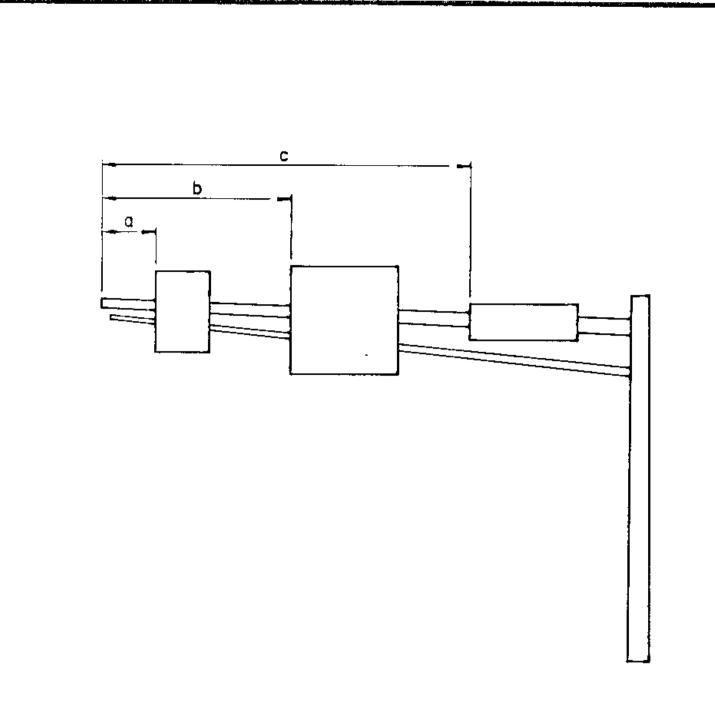
DATE 7/1/92 REG. NO. 14157 ENGR. Thomas E. Wetmore

STANDARD PLATES SIGNAL QUANTITIES ABBREVIATIONS

o. 02-606-08

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Sheet No. 24 of 31 Sheets



INTERNALLY ILLUMINATED SIGNS

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SIGN PANEL	SIZE	NO. REQ.	NO. POSTS PER SIGN	POST SPACING	SQ. FT. PER SIGN	a	b	с	POLE NO.('s)
D-1	96" x 24"		SEE NOTE 2	SEE NOTE 2	6	18'			1 1
D-1	96" x 24"		SEE NOTE 2	SEE NOTE 2	16	18'			4
D-2	96" x 24"		SEE NOTE 2	SEE NOTE 2	16	30'			2
D-2	96" x 24"]]	SEE NOTE 2	SEE NOTE 2	16	31'			5

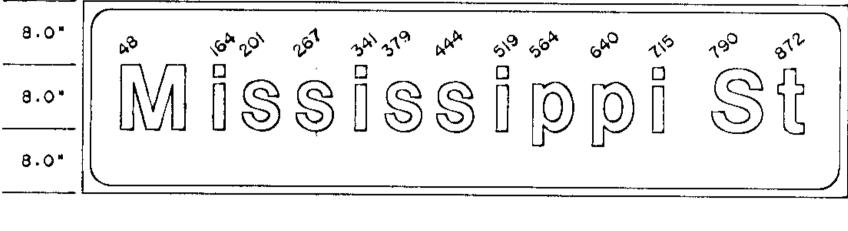
NOTES

- I. COLOR: D-I SIGNS SHALL BE WHITE LEGEND AND BORDER ON BLUE BACKGROUND. D-2 SIGNS SHALL BE WHITE LEGEND AND BORDER ON GREEN BACKGROUND.
- 2. INTERNALLY LIT SIGN--SEE SPECIAL PROVISIONS FOR STRUCTURAL AND MOUNTING DETAILS, WIRING DETAILS, AND ETC.

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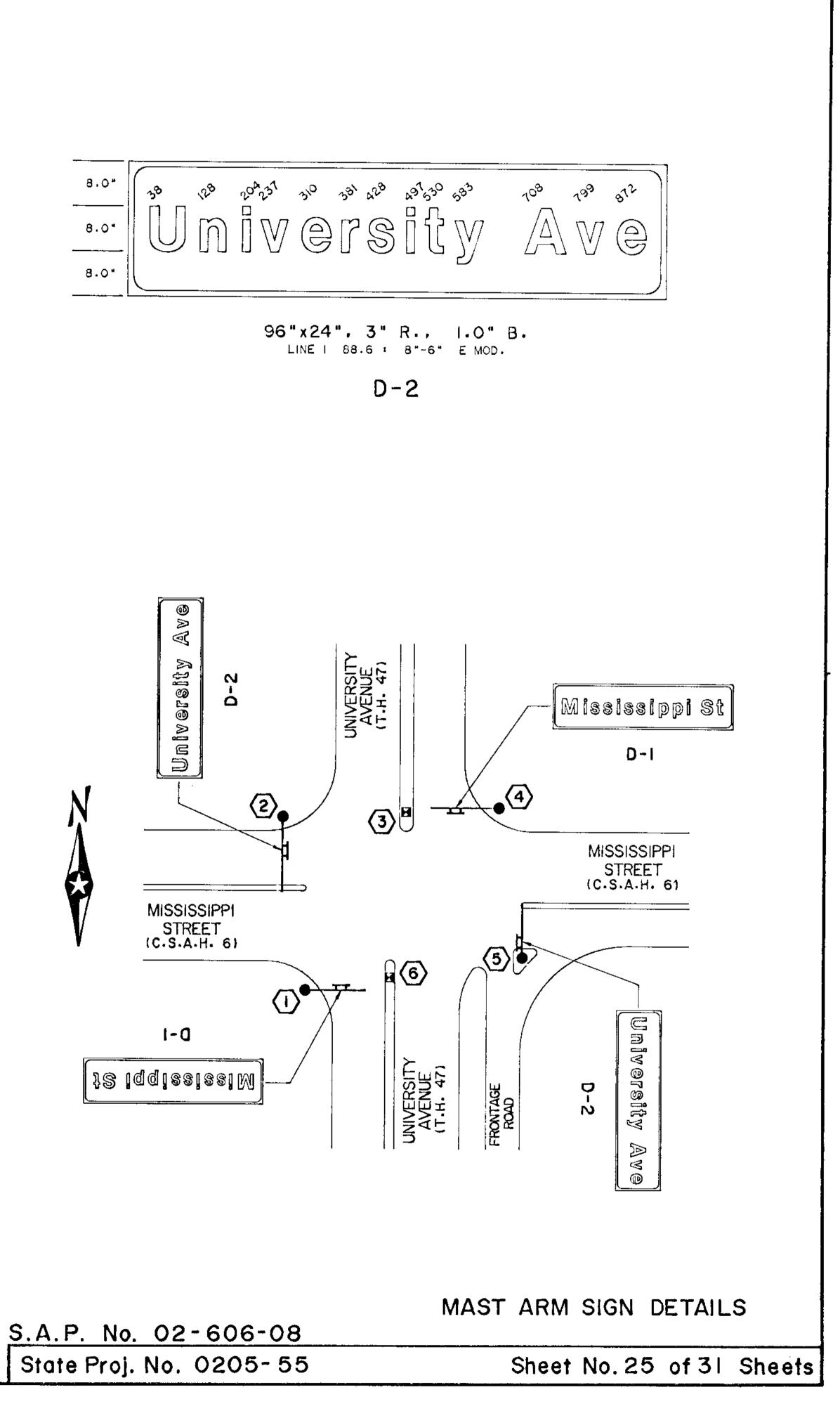
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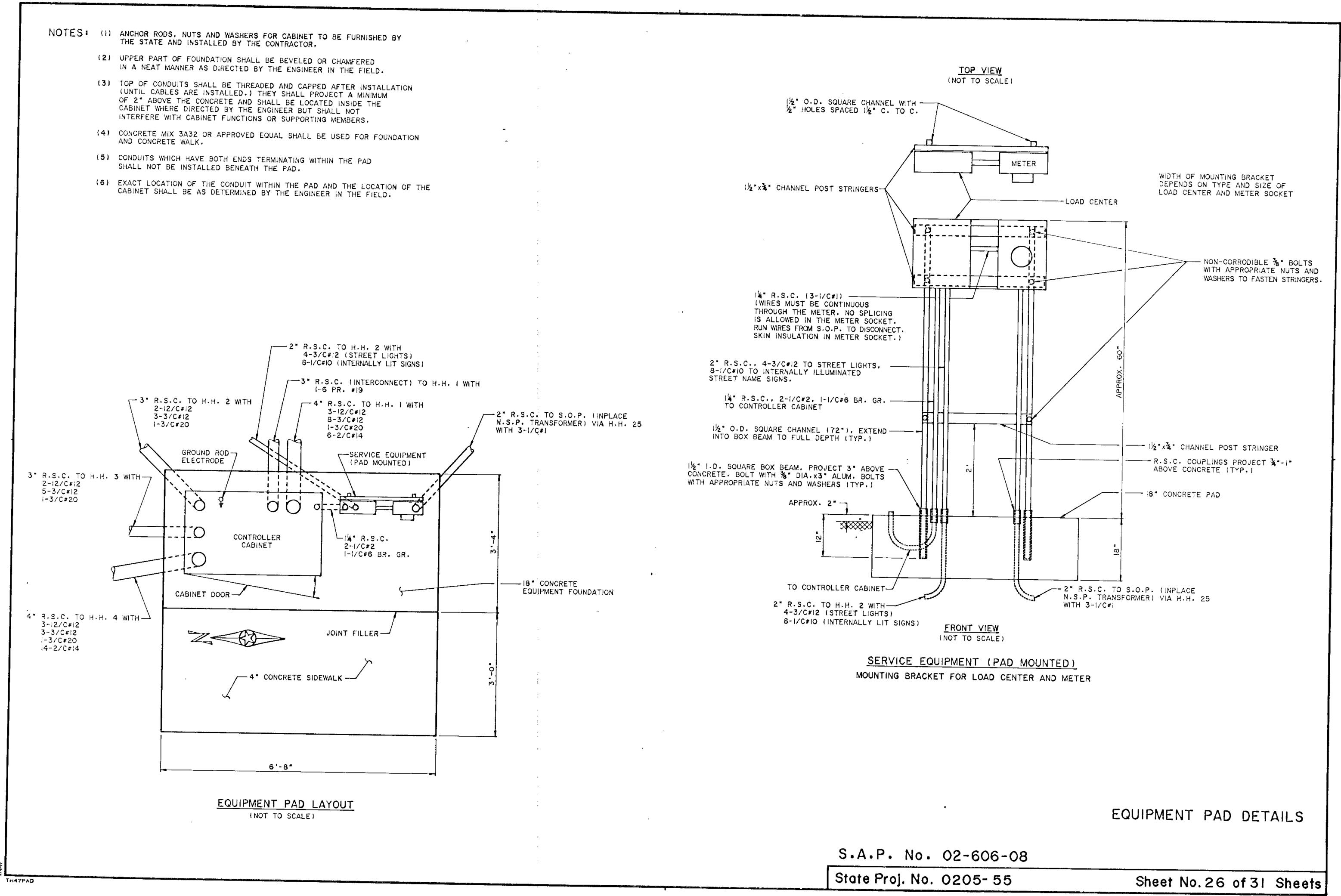
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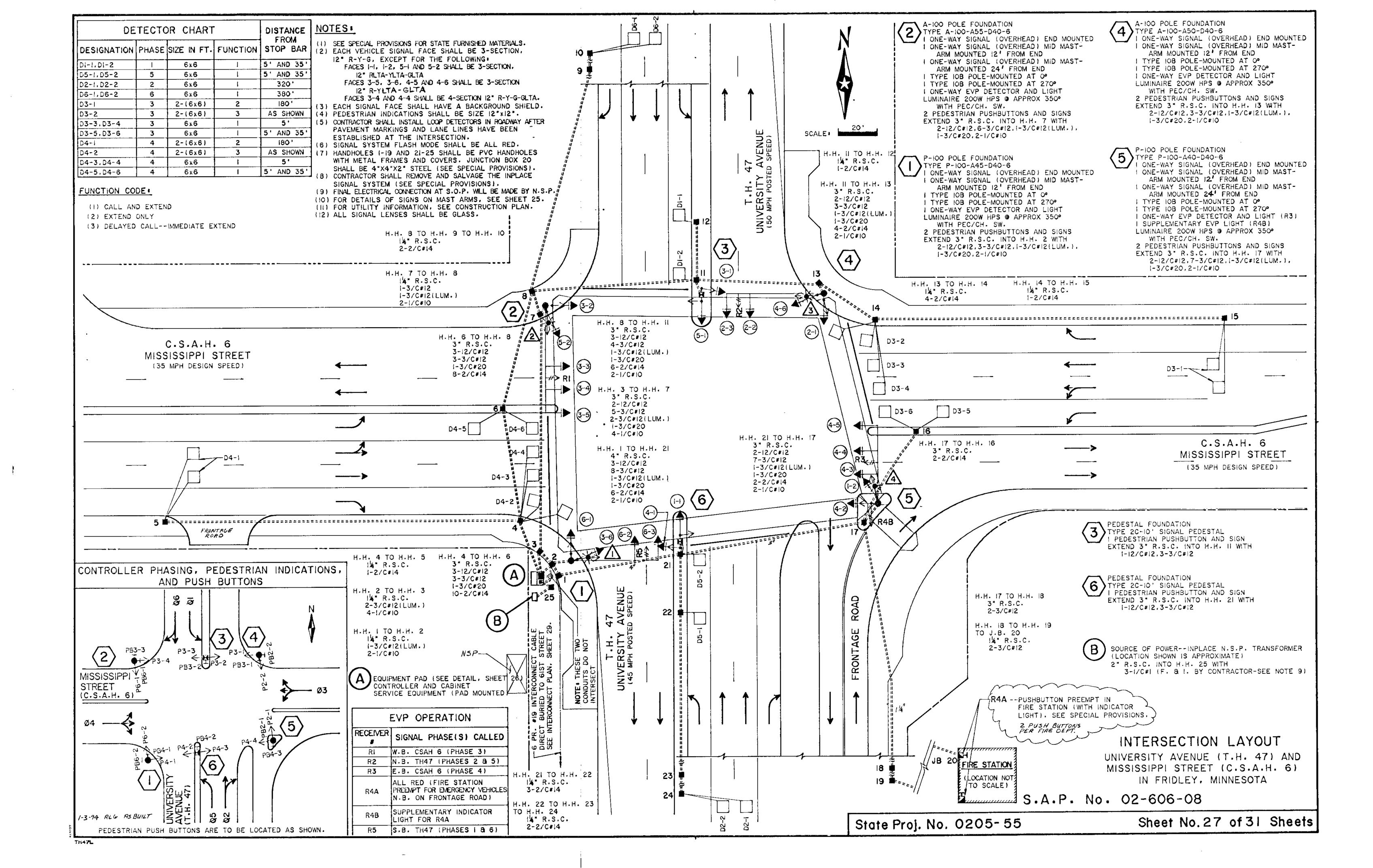
96"x24", 3" R., I.O" B. LINE I 86.4 : 8"-6" E MOD.

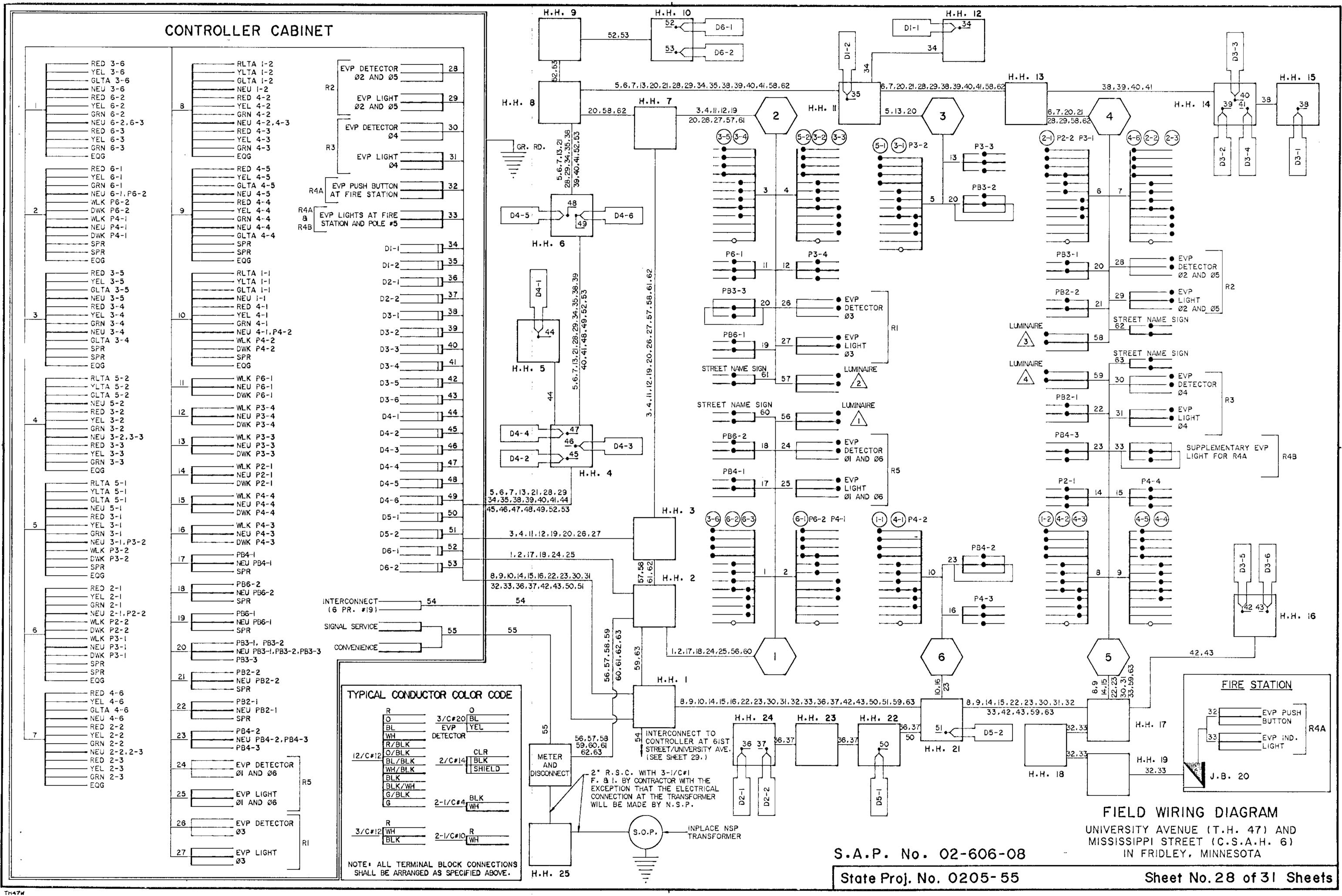
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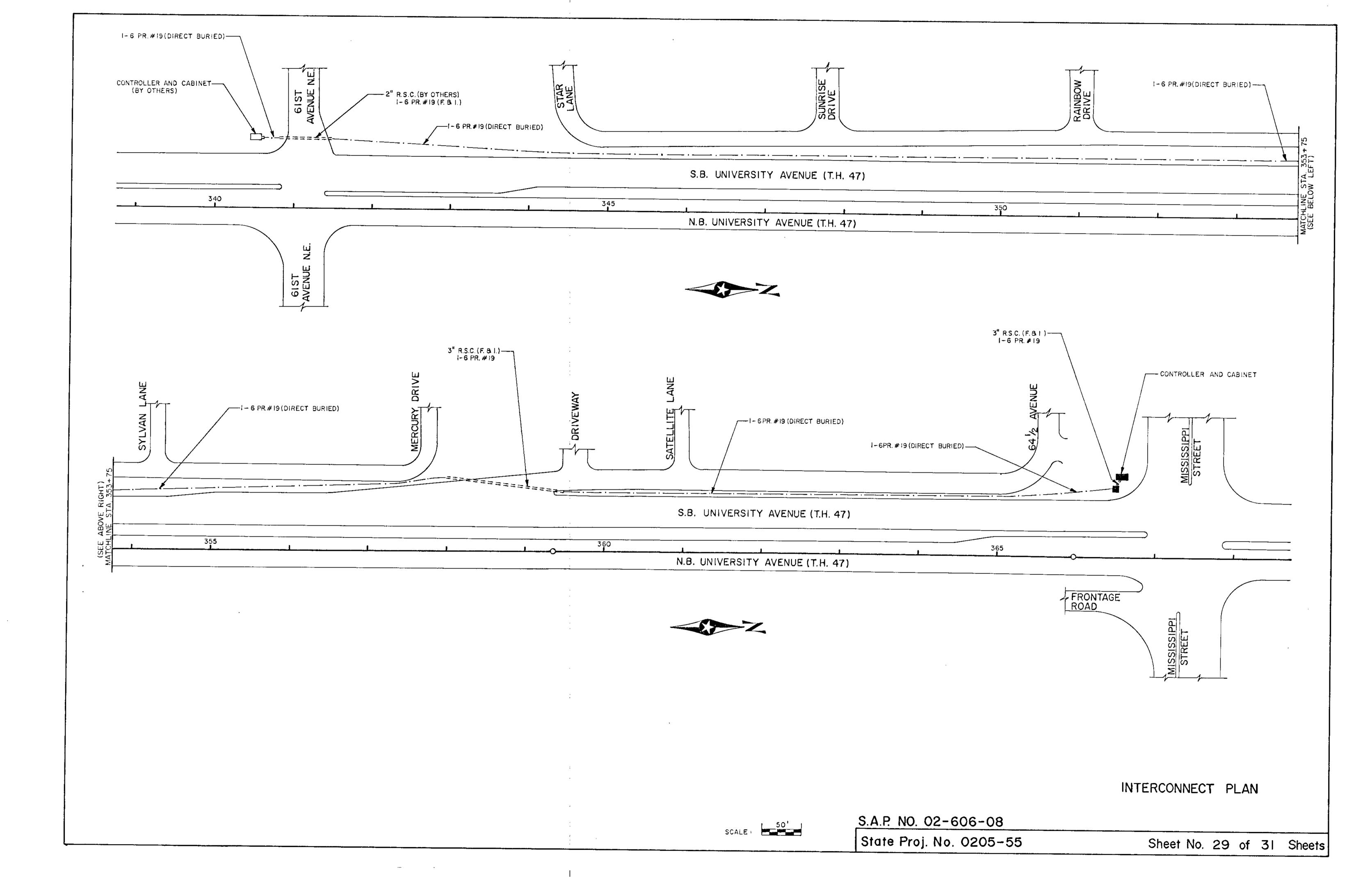
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4. SAMPLING DETECTOR TWO WAY SIGNAL IT I-PEDESTRIAN PUSP 2-STEEL GUADA DE EXTEND INTO HL 6 3 ³ A.S.C. 1-12/C#12 T.H. 47 S.B. FAI: 26% LOOP DETECTORS CONNECT TO EXISTING CABLES IN 2-27/C#14 D6-2 [] 104* R.S.C. IV4* R.S.C. FAI: 26% LOOP DETECTORS CONNECT TO EXISTING CABLES IN 2-27/C#14 SIGNAL INDICATION CHART IV4* R.S.C. IV4* R.S.C. FAI: NEW HANDHOLE 10A 2-6% LOOP DETECTORS SPLICE TO EXISTING CABLES IN CONNECT	FUNCTIONS:	2. EXTEND	ONLY		
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