S.A.P. 62-652-07
S.A.P. 62-652-08

RAMSEY COUNTY

DEPARTMENT OF PUBLIC WORKS

CONSTRUCTION PLAN: FOR GRADING, AGGREGATE BASE, BITUMINOUS BASE AND SURFACING, STORM SEWER, CONCRETE CURB & GUTTER. S.A.P. 62-652-07 & 62-652-08

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: M.R.
DATE: 3-31-93

CSAH 52
VICTORIA STREET

FROM 600' SOUTH OF COUNTY ROAD E (CSAH 15) TO 116' NORTH OF COUNTY ROAD F (CSAH 12 & CSAH 13), COUNTY ROAD E FROM 485' WEST OF VICTORIA ST. TO 175' EAST OF VICTORIA ST.

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
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6 & 7	SCHEDULES
8 - 13	TYPICAL SECTIONS & DETAILS
14	CATCH BASIN PROFILES
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54-56	VICTORIA ST. DRWY PROFILES
57-60	DELUXE ENTRANCE DR. PROFILES, ISLAND LK. PARK RD. & INTERSECTIONS

LEGEND

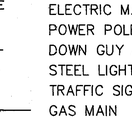
5 — STREET CENTERLINE
SURVEY BASELINE
PROPERTY LINE
RIGHT OF WAY
TEMPORARY EASEMENT
PERMANENT EASEMENT

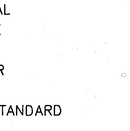
EXISTING

- SANITARY SEWER AND MANHOLE
- STORM SEWER AND MANHOLE
- WATERMAIN, HYDRANT AND VALVE
- F — FORCEMAIN
- BULKHEAD
- SANITARY SEWER SERVICE
- WATER SERVICE AND CURB STOP BOX
- CATCH BASIN
- WATER VALVE MANHOLE
- CULVERT
- T — UNDERGROUND TELEPHONE CABLE OR CONDUIT
- E — UNDERGROUND ELECTRIC CABLE OR CONDUIT
- TELEPHONE MANHOLE
- TELEPHONE PEDESTAL
- CABLE TV PEDESTAL
- ELECTRIC MANHOLE
- POWER POLE
- DOWN GUY ANCHOR
- STEEL LIGHT POLE
- TRAFFIC SIGNAL, STANDARD
- G — GAS MAIN
- GAS VALVE
- 1 — SOIL BORING
- CONCRETE CURB AND GUTTER
- CONCRETE PAVEMENT OR SIDEWALK
- SIGN (HWY, PARK, STOP, ETC.)
- STREET SIGN
- DITCH
- RAILROAD TRACKS
- X — FENCE
- TREE (DECIDUOUS) 4"
- TREE (CONIFEROUS) 4"
- BUSH-SHRUB
- WOODED AREA
- BUILDING
- RAILROAD SIGNAL

NEW CONSTRUCTION

- SANITARY SEWER AND MANHOLE
- STORM SEWER AND MANHOLE
- WATERMAIN, HYDRANT AND VALVE
- F — FORCEMAIN
- BULKHEAD
- SANITARY SEWER SERVICE
- WATER SERVICE AND CURB STOP BOX
- CATCH BASIN
- WATER VALVE MANHOLE
- CULVERT
- CONCRETE CURB AND GUTTER
- STEEL LIGHT POLE
- TRAFFIC SIGNAL, STANDARD
- SIGN (HWY, PARK, STOP, ETC.)
- STREET LIGHT FEED POINT
- STREET LIGHTING CABLE
- SILT FENCE
- & ---- BALE CHECKS
- ···· TEMPORARY BITUMINOUS CURB
- TREE TO BE CLEARED & GRUBBED
- TREE TO BE CLEARED & GRUBBED





Note:
Section Numbers Read From The South

DESIGN DESIGNATION S.A.P. 62-652-07

PRESENT ADT (YEAR) 10,600 (1990) PROJ. ADT (YEAR) 18,900 (2010)
FUNCTIONAL CLASSIFICATION ARTERIAL-HIGH DENSITY
NO. OF TRAFFIC LANES 4 NO. OF PARKING LANES 0
10 TON DESIGN PROJ. HCADT (YEAR) 8% (2010)
DESIGN SPEED 40 MPH R-VALUE 15
STOPPING SIGHT DISTANCE BASED ON:
3.5' HEIGHT OF EYE; 0.5' HEIGHT OF OBJECT
SIGMA-NI8 1,416,000
DESIGN SPEED NOT ACHIEVED AT: STA.229+00 to STA.230+20, 30 MPH*

DESIGN DESIGNATION S.A.P. 62-652-08

PRESENT ADT (YEAR) 9,400 (1990) PROJ. ADT (YEAR) 14,100* (2010)
FUNCTIONAL CLASSIFICATION ARTERIAL-HIGH DENSITY
NO. OF TRAFFIC LANES 4 NO. OF PARKING LANES 0
10 TON DESIGN PROJ. HCADT (YEAR) 8% (2010)
DESIGN SPEED 40 MPH R-VALUE 15
STOPPING SIGHT DISTANCE BASED ON:
3.5' HEIGHT OF EYE; 0.5' HEIGHT OF OBJECT
SIGMA-NI8 1,149,000

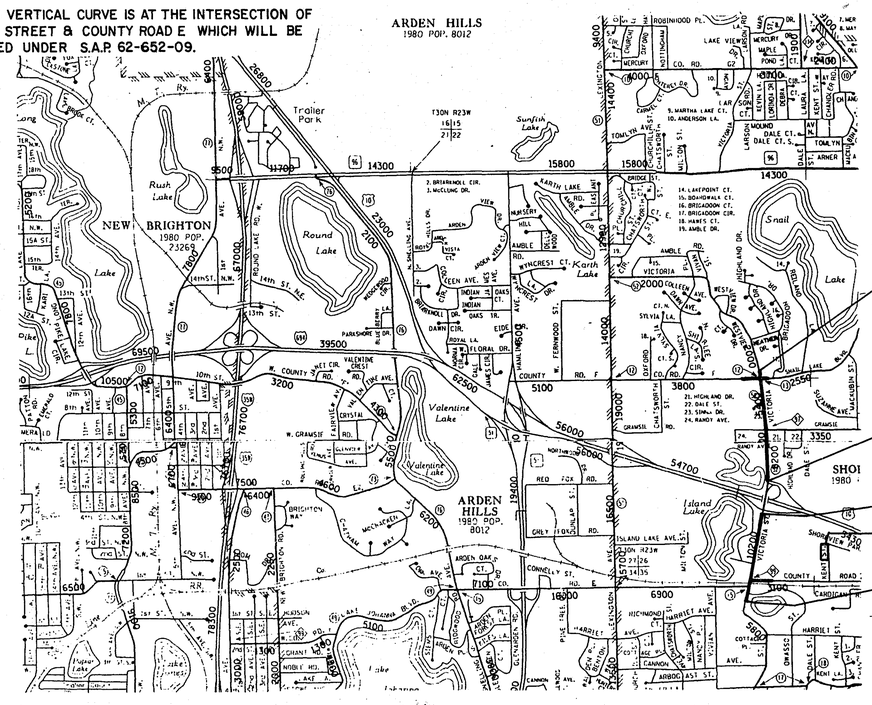
*17,485 BETWEEN MCT ENTRANCE & I 694)

	S.A.P. 62-652-07		S.A.P. 62-652-08	
	FEET	MILES	FEET	MILES
GROSS LENGTH	2175	0.41	2755	0.52
BRIDGE LENGTH	—	—	—	—
EXCEPTION	—	—	—	—
NET LENGTH	2175	0.41	2755	0.52

SCALE

PLAN	30 60
PROFILE HORIZ.	30 60
PROFILE VERT.	5 10
CROSS SECT. HORIZ.	10 20
CROSS SECT. VERT.	5 10
LAYOUT MAP	2030'

* THIS SAG VERTICAL CURVE IS AT THE INTERSECTION OF VICTORIA STREET & COUNTY ROAD E WHICH WILL BE SIGNALIZED UNDER S.A.P 62-652-09.



NOTES

1. DROP CURB AT ALL INTERSECTIONS FOR PEDESTRIAN CURB RAMP FOR THE HANDICAPPED
2. EXACT LOCATION OF PRIVATE UNDERGROUND UTILITIES IS UNKNOWN CONTRACTOR SHALL CONTACT APPROPRIATE UTILITY FOR LOCATION BEFORE COMMENCING EXCAVATION.
3. ALL CURB RETURN RADII ARE MEASURED TO FACE OF CURB.
4. TURF RESTORATION INCLUDES 3" TOPSOIL.

PLAN REVISIONS		
DATE	REVISION	BY
7/10/90	DESIGN DESIGNATION	JMP
7/24/90	EXCEPTION NOTE ADDED	JMP
12/12/90	CONC MEDIAN AT R/R	TL/BJ

THE 1988 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

DESIGN SQUAD _____ DATE _____
DRAWN BY _____ DATE _____
CHECKED BY _____ DATE _____

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

Gary R. Huy
DATE 3/13/90 REG.NO. 9046

RAMSEY COUNTY

RECOMMENDED FOR APPROVAL DES Traffic Engr. DATE 5/22/90
RECOMMENDED FOR APPROVAL KMR Env. Engr. DATE 5-22-90
RECOMMENDED FOR APPROVAL DJS Maint. Engr. DATE 5-22-90
RECOMMENDED FOR APPROVAL RHP LKF Const. Engr. DATE 5-23-90
RECOMMENDED FOR APPROVAL DLR Design Engr. DATE 5-23-90
RECOMMENDED FOR APPROVAL JAB R.O.W. Engr. DATE 5-23-90
RECOMMENDED FOR APPROVAL _____ County Engineer DATE 6-1-90
RECOM'D Paul Kurtz Assistant Co. Engineer DATE 6/1/90
RECOM'D _____ Coordinating Engineer DATE 5-22-90

APPROVED D.A. Ingvalson Chair.of The Ramsey County Board DATE 10/2/90
APPROVED _____ Director of Shoreview Public Works Dept. DATE 3/14/90
APPROVED _____ DATE _____

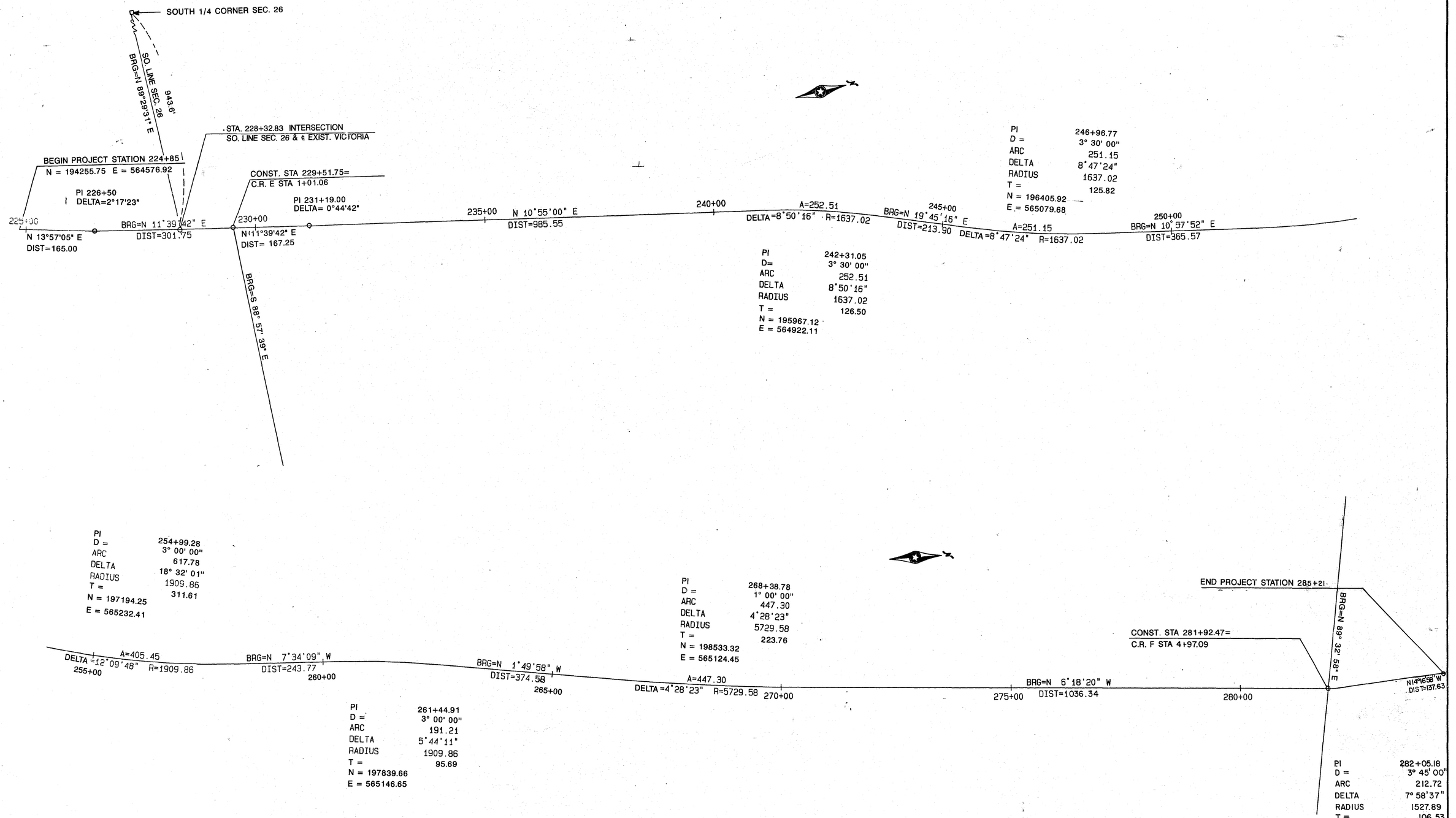
MINNESOTA DEPARTMENT OF TRANSPORTATION

RECOMMENDED FOR APPROVAL _____ State Aid Plans Engineer DATE 9/21/90
RECOMMENDED FOR APPROVAL _____ District State Aid Engineer DATE 9/5/90
APPROVAL _____ State Aid Engineer DATE 9-21-90

28-114

State Proj. No. 62-652-07 & 62-652-08 **Sheet No.** 1 **of** 60 **Sheets**

BASE | OVERLAY | DRG NO.



ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: A.R.
DATE: 3-31-93

28-114

NO.	BY	DATE	REVISIONS	ITEM	DESIGN	CHECKED

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 5/14/90 Reg. No. 9046

ENGINEERS ■ ARCHITECTS ■ PLANNERS

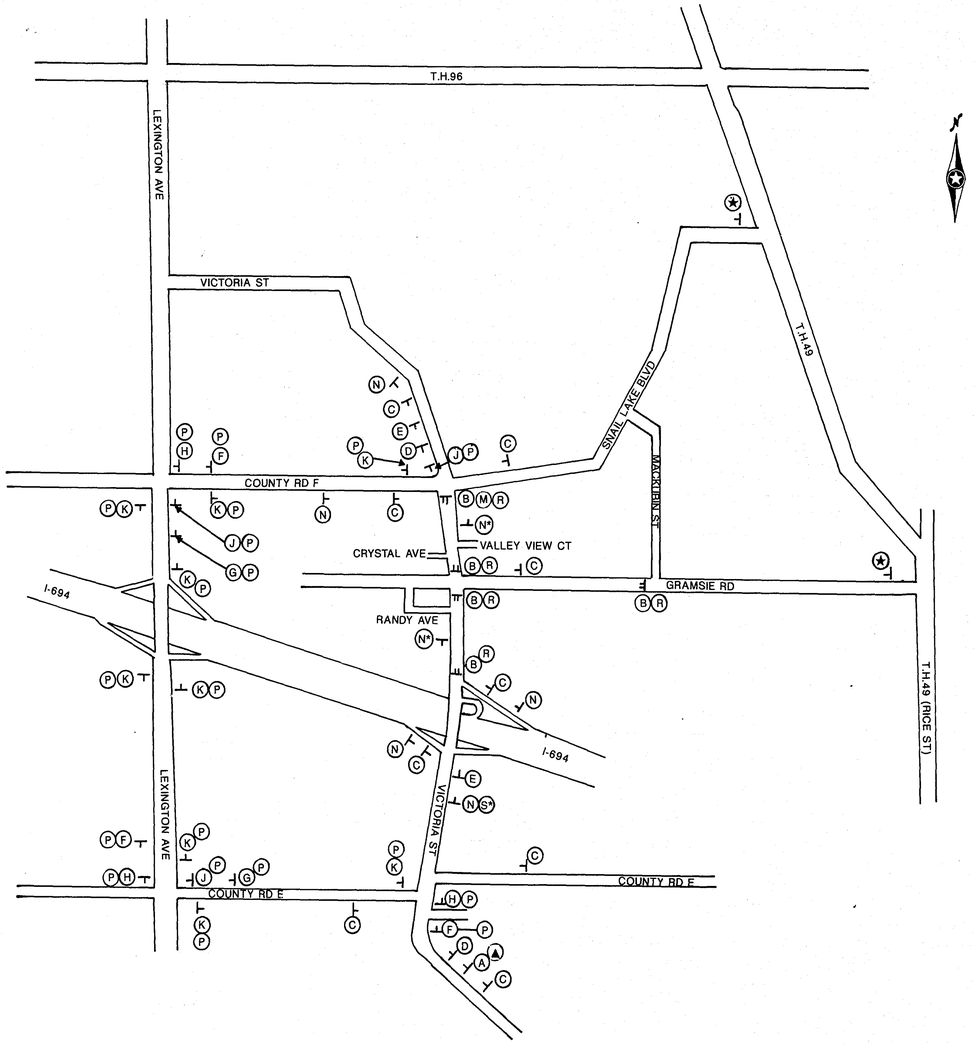
RAMSEY CO. MINNESOTA
VICTORIA STREET

ALIGNMENT

FILE NO. 89140
DATE 5/14/90
2 / 60

S.A.P. 62-652-07 & 62-652-08

BASE | OVERLAY | DRG NO.



LEGEND

SYMBOL	SIGN	NUMBER	SIZE	QUANTITY
A	ROAD CLOSED 1/2 MILES AHEAD LOCAL TRAFFIC ONLY	R11-3	60"x30"	1
B	ROAD CLOSED TO THRU TRAFFIC	R11-4	60"x30"	5
C	ROAD CONSTRUCTION AHEAD	W20-1	36"x36"	9
D	DETOUR AHEAD	W20-2	48"x48"	2
E	ROAD CLOSED AHEAD	W20-3	48"x48"	2
F	DETOUR	M4-9L	30"x24"	3
G	DETOUR	M4-9R	30"x24"	2
H	DETOUR	M4-9L	30"x24"	3
J	DETOUR	M4-9R	30"x24"	3
K	DETOUR	M4-9S	30"x24"	9
M	DETOUR	M4-10R	48"x18"	1
N	VICTORIA ST NORTH OF I-694 CLOSED BEGINS (Date)	——	——	7
P	VICTORIA ST	——	——	20
R		TYPE III BARRICADE	——	5
S	RAMPS TO I-694 OPEN	——	——	1
AS NEEDED	ROAD CLOSED	R11-2	48"x30"	—
		W20-7a	36"x36"	—
		TYPE III BARRICADE	——	—

NOTES:

DRAWING IS NOT TO SCALE.

LOCATION OF SIGNS ARE APPROXIMATE.

* = RELOCATE SIGN UPON BEGINNING OF CLOSURE AND DETOUR

★ = LOCATION OF SIGN "N" AFTER CLOSURE AND DETOUR

▲ = LOCATION OF SIGN "S" AFTER CLOSURE AND DETOUR

ALL TRAFFIC CONTROL SIGNING AND DEVICES SHALL CONFORM TO THE MMUTCD, INCLUDING APPENDIX B, DATED MARCH, 1990.

ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: M.R.
DATE: 3-31-93

28-114

NO.	BY	DATE	REVISIONS	ITEM	DESIGN	CHECKED

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 5/14/90 Reg No. 9046

SEH ENGINEERS ■ ARCHITECTS ■ PLANNERS

RAMSEY CO. MINNESOTA
VICTORIA STREET

SIGNING AND DETOUR LAYOUT

FILE NO. 89140 | 3
DATE 5/14/90 | 60

S.A.P. 62-652-07 & S.A.P. 62-652-08

STATEMENT OF ESTIMATED QUANTITIES

	ITEM NO.	ITEM	UNIT	TOTAL ESTIMATED QUANTITIES	TOTAL FINAL QUANTITIES	SO. 694 S.A.P. 62-652-07 RAMSEY COUNTY ESTIMATED QUANTITIES	SO. 694 S.A.P. 62-652-07 RAMSEY COUNTY FINAL QUANTITIES	NO. 694 S.A.P. 62-652-08 RAMSEY COUNTY ESTIMATED QUANTITIES	NO. 694 S.A.P. 62-652-08 RAMSEY COUNTY FINAL QUANTITIES	SO. 694 STORM SEWER ESTIMATED QUANTITIES	SO. 694 STORM SEWER FINAL QUANTITIES	NO. 694 STORM SEWER ESTIMATED QUANTITIES	NO. 694 STORM SEWER FINAL QUANTITIES	NON-PARTICIPATING SHOREVIEW ESTIMATED QUANTITIES	NON-PARTICIPATING SHOREVIEW FINAL QUANTITIES	NON-PARTICIPATING RAMSEY COUNTY ESTIMATED QUANTITIES	NON-PARTICIPATING RAMSEY COUNTY FINAL QUANTITIES	
	2021.501	MOBILIZATION	L.S.	1		0.35		0.35		0.15		0.15						
	2101.501	CLEARING	ACRE	0.5				0.4				0.1						
	2101.502	CLEARING	TREE	46		14		32										4*
	2101.506	GRUBBING	ACRE	0.5				0.4				0.1						
	2101.507	GRUBBING	TREE	46		14		32										4*
	2104.501	REMOVE CONCRETE CURB & GUTTER	L.F.	1190		675		515										
	2104.501	REMOVE 12" CIP WATERMAIN	L.F.	585		585												
	2104.501	REMOVE CULVERT PIPE	L.F.	1680		807		873										
	2104.501	REMOVE RAILROAD TRACKS	L.F.	217		217												
	2104.503	REMOVE BITUMINOUS WALK	S.F.	4680		4680												
	2104.505	REMOVE CONCRETE DRIVEWAY PAVEMENT	S.Y.	345		180		165										
6	2104.505	REMOVE BITUMINOUS PAVEMENT	S.Y.	24910		11330		13580										
6	2104.509	REMOVE OUTLET STRUCTURE	EACH	1								1						
	2104.509	REMOVE CATCH BASINS	EACH	9		9												
	2104.511	SAWING CONCRETE PAVEMENT	L.F.	116		35		81										
	2104.513	SAWING BITUMINOUS PAVEMENT	L.F.	1785		625		1160										
	2104.521	SALVAGE CHAIN LINK FENCE	L.F.	782		232		60				490						
	2104.521	SALVAGE SPLIT RAIL FENCE	L.F.	60				60										
	2104.521	SALVAGE & INSTALL STONE RETAINING WALL	L.F.	35				35										
	2104.523	SALVAGE HYDRANT ASSEMBLY	EACH	1										1				
	2104.523	SALVAGE & INSTALL SIGN	EACH	2		1		1										
	2105.501	COMMON EXCAVATION (P)	C.Y.	74200		36300		37900										4
	2105.515	UNCLASSIFIED EXCAVATION (POND) (P)	C.Y.	790								790						
	2105.522	SELECT GRANULAR BORROW (CV)	C.Y.	31080		15000		16080										
	2105.526	SELECT TOPSOIL BORROW (LV)	C.Y.	4765		2695		1440		190		440						
	2123.601	TRACTOR MOUNTED BACKHOE	HOUR	40		20		20										
	2130.501	WATER	(M)GAL	200		100		100										4
4	2211.503	AGGREGATE BASE PLACED, CLASS 6 (P)	C.Y.	9900		4555		4715						500		130		4
	2232.501	MILL BITUMINOUS SURFACE	S.Y.	1455		665		790										
4	2331.508	TYPE 61 WEARING COURSE MIXTURE	TON	2235		1090		1145										4*
4	2331.508	TYPE 41 WEARING COURSE MIXTURE	TON	265		170		95										4*
4	2331.510	TYPE 31 BINDER COURSE MIXTURE	TON	4285		1995		2290										4*
4	2331.514	TYPE 31 BASE COURSE MIXTURE	TON	8605		4005		4600										
	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	4180		1975		2205										4*
	2451.509	AGGREGATE BEDDING (LV)	C.Y.	50										50				
	2501.511	15" CM PIPE CULVERT	L.F.	108						90		18						
	2501.515	15" RC PIPE APRON W/TRASH GUARD	EACH	3						3								
	2501.515	24" RC PIPE APRON W/TRASH GUARD	EACH	3								3						
	2501.515	30" RC PIPE APRON W/TRASH GUARD	EACH	1						1								
	2501.515	48" RC PIPE APRON W/TRASH GUARD	EACH	1						1								
	2502.541	4" PERF. PE PIPE DRAIN W/FILTER SOCK	L.F.	10400		4400		6000										4
	2503.541	15" RC PIPE SEWER, DES. 3006, CL. II	L.F.	2358						818		1540						4
	2503.541	15" RC PIPE SEWER, DES. 3006, CL. V	L.F.	1288						683		605						
	2503.541	18" RC PIPE SEWER, DES. 3006, CL. III	L.F.	352						120		232						
	2503.541	18" RC PIPE SEWER, DES. 3006, CL. V	L.F.	57								57						
	2503.541	21" RC PIPE SEWER, DES. 3006, CL. III	L.F.	2203						1163		1040						
	2503.541	24" RC PIPE SEWER, DES. 3006, CL. III	L.F.	831						229		602						
	2503.541	24" RC PIPE SEWER, DES. 3006, CL. IV	L.F.	190								190						
	2503.541	27" RC PIPE SEWER, DES. 3006, CL. III	L.F.	210						210								
	2503.541	30" RC PIPE SEWER, DES. 3006, CL. III	L.F.	49						49								
	2503.541	48" RC PIPE SEWER, DES. 3006, CL. IV	L.F.	79						79								
	0503.603	8" SANITARY SEWER	L.F.	190										190				
	0503.603	4" SANITARY SEWER SERVICE	L.F.	10										10				
	0503.603	CONSTRUCT OUTSIDE DROP ON EX. MANHOLE	L.F.	9										9				
	0504.602	CUT-IN 12" BUTTERFLY VALVE	EACH	2										2				
	0504.602	RELOCATE HYDRANT ASSEMBLY	EACH	9		4		5										
	0504.602	RELOCATE HYDRANT AND VALVE	EACH	3		2		1										
	0504.602	ADJUST VALVE BOX	EACH	16		3		13										
	0504.602	ADJUST CURB STOP BOX	EACH	33		3		30										
	0504.602	LOWER EXISTING WATERMAIN	EACH	2		2												
	0504.603	12" D.I. PIPE WATERMAIN, CLASS 53	L.F.	585		585												
	0504.603	LOWER EXISTING WATER SERVICE	L.F.	705				635				70						
	0504.605	2" RIGID INSULATION	S.Y.	30				30										
	2506.506	CONSTRUCT MANHOLES, DESIGN B	L.F.	125						40		68		17				4
	2506.506	CONSTRUCT MANHOLES, DESIGN C	L.F.	101						65		36						
	2506.506	CONSTRUCT MANHOLES, DESIGN F	L.F.	16						16								
	2506.507	CONSTRUCT CATCH BASINS, DESIGN DS-2	L.F.	16						12		4						
	2506.507	CONSTRUCT CATCH BASINS, DESIGN DS-5	L.F.	12						6		6						
	2506.507	CONSTRUCT CATCH BASINS, DESIGN LP-4	L.F.	94						36		58						
	2506.507	CONSTRUCT CATCH BASINS, DESIGN B-1	L.F.	3								3						
	2506.507	CONSTRUCT CATCH BASINS, DESIGN C-1	L.F.	8						8								
	2506.507	CONSTRUCT CATCH BASINS, DESIGN C	L.F.	8								8						

CONTINUED ON SHEET NO. 5

28-114

ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: M.R.
DATE: 3-31-93

BY	DATE	REVISIONS
JMP	12-4-90	CHANGED BIT. MIXTURE DESIGNATION & UNITS FOR AGG. BASE
JMP	12-4-90	ITEM NO.'S PUT INTO ORDER, ADDED REMOVE OUTLET & BIT. PAVEMENT
JMP	6-7-90	REVISED QUANTITIES 4* CFBM 8-27-90
JMP	6-7-90	ADDED AGG. BEDDING
JMP	6-5-90	REVISED QUANTITIES 3* JMP 7-24-90
JMP	6-5-90	DELETED CLASS 4 AGG. BASE
JMP	6-5-90	CHANGED REMOVE to SALVAGED, 6" to 4" PIPE, & ADD MODIFIED to MIXTURE

DESIGN B-7/3-BJ | ITEM | DESIGN | CHECKED

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: 5/14/90 Reg. No. 9046

ENGINEERS ■ ARCHITECTS ■ PLANNERS

RAMSEY CO., MINNESOTA

ESTIMATED QUANTITIES

FILE NO. 89140 | 4
DATE 5/14/90 | 60

STATEMENT OF ESTIMATED QUANTITIES

ITEM NO.	ITEM	UNIT	TOTAL ESTIMATED QUANTITIES	TOTAL FINAL QUANTITIES	SO. 694 S.A.P. 62-652-07 RAMSEY COUNTY ESTIMATED QUANTITIES	SO. 694 S.A.P. 62-652-07 RAMSEY COUNTY FINAL QUANTITIES	NO. 694 S.A.P. 62-652-08 RAMSEY COUNTY ESTIMATED QUANTITIES	NO. 694 S.A.P. 62-652-08 RAMSEY COUNTY FINAL QUANTITIES	SO. 694 S.A.P. 62-652-07 STORM SEWER ESTIMATED QUANTITIES	SO. 694 S.A.P. 62-652-07 STORM SEWER FINAL QUANTITIES	NO. 694 S.A.P. 62-652-08 STORM SEWER ESTIMATED QUANTITIES	NO. 694 S.A.P. 62-652-08 STORM SEWER FINAL QUANTITIES	NON-PARTICIPATING SHOREVIEW ESTIMATED QUANTITIES	NON-PARTICIPATING SHOREVIEW FINAL QUANTITIES	NON-PARTICIPATING RAMSEY COUNTY ESTIMATED QUANTITIES	NON-PARTICIPATING RAMSEY COUNTY FINAL QUANTITIES	
2506.511	RECONSTRUCT MANHOLE	L.F.	62		22		40										A*
2506.516	CASTING ASSEMBLY, R-1733	EACH	32						17		14		1				A*
2506.516	CASTING ASSEMBLY, R-2565-C	EACH	2						1		1						A
2506.516	CASTING ASSEMBLY, R-3067-V	EACH	6						4		2						
2506.516	CASTING ASSEMBLY, R-4342	EACH	6								6						
2506.516	CASTING ASSEMBLY, 790-2-712	EACH	23						9		14						
2506.522	ADJUST FRAME & RING CASTING	EACH	10		6		4										
0506.602	FURNISH & INSTALL SPECIAL STRUC NO. 1	EACH	1								1						
0506.602	FURNISH & INSTALL SPECIAL STRUC NO. 2	EACH	1						1								
2511.501	RANDOM RIPRAP, CL. II	C.Y.	30						19		11						
2511.515	GEOTEXTILE FILTER, TYPE IV	S.Y.	100						60		40						
2521.501	4" CONCRETE WALK	S.F.	5730										5730				
2521.511	4" BITUMINOUS WALK	S.F.	26915		4680								16495		5740		
2531.501	CONCRETE CURB & GUTTER, DES. B-612	L.F.	360		175		185										A
A 2531.501	CONCRETE CURB & GUTTER, DES. B-624	L.F.	**9199**		**4219**		4980										A A0
2531.501	CONCRETE CURB & GUTTER, DES. D-418	L.F.	75				75										
A 2531.503	CONCRETE MEDIAN **4"**	S.Y.	**188**		**188**												
2531.507	6" CONCRETE DRIVEWAY PAVEMENT	S.Y.	585		150		435										
2535.501	BITUMINOUS CURB	L.F.	1415		875		540										A
2545.700	RELOCATE EXISTING LIGHT POLE	EACH	3		1		2										
A 0557.603	INSTALL CHAIN LINK FENCE	L.F.	782		232		60				490						
A 0557.603	INSTALL SPLIT RAIL FENCE	L.F.	60				60										
0563.601	TRAFFIC CONTROL	L.S.	1		0.50		0.50										
0565.602	CONCRETE HANDHOLE, TYPE "C" COVER	EACH	9		9												
0565.603	4" RIGID STEEL CONDUIT	L.F.	302		302												
2571.541	TRANSPLANT TREE, EVERGREEN	TREE	20				20										A*
2571.541	TRANSPLANT TREE, DECIDUOUS	TREE	1				1										
2571.544	TRANSPLANT SHRUB, LILAC	SHRUB	25										25				A*
2573.501	BALE CHECK	EACH	130		40		90										
2573.502	SILT FENCE, HEAVY DUTY	L.F.	6080		4070		2010										A
2575.501	SEEDING	ACRE	5		2		1		1		1						
2575.505	SODDING, TYPE LAWN & BOULEVARD	S.Y.	31935		15035		14150		420		2330						A0
2575.511	MULCH MATERIAL, TYPE 1	TON	9		4		2		1		2						
2575.519	DISC ANCHORING	ACRE	5		2		1		1		1						
2575.523	WOOD FIBER BLANKETS, TYPE REGULAR	S.Y.	610				390				220						

A STORM SEWER PARTICIPATION

	S.A.P. 62-652-07	S.A.P. 62-652-08
CITY OF SHOREVIEW	%	%
RAMSEY COUNTY	58.97 %	63.59 %

A

CONCRETE & BITUMINOUS WALKS

REPLACE EXISTING	SAP 62-652-07	SAP 62-652-08	TOTAL
CONCRETE WALK (S.F.)	0	0	0
AGG. BASE, CL. 6 (TON)	0	0	0
BIT. WALK (S.F.)	4680	0	4680
AGG. BASE, CL. 6 (TON)	210	0	210
NEW			
CONCRETE WALK (S.F.)	5730	0	5730
AGG. BASE, CL. 6 (TON)	260	0	260
BIT. WALK (S.F.)	6860	15,375	22,235
AGG. BASE, CL. 6 (TON)	305	690	995

A

CONCRETE CURB & GUTTER

REPLACE EXISTING (L.F.)	SAP 62-652-07	SAP 62-652-08	TOTAL
B-612	0	185	185
B-624	400	355	755
D-418	0	75	75
NEW (L.F.)			
CTY. PARK, R.R., & MEDIANS			
B-612	80	0	80
A B-624	1759	0	1759
PRIVATE PROP. FRONTAGE			
B-612	95	0	95
B-624	2060	4625	6685 A0

A

EARTHWORK SUMMARY

EXCHANGE (C.Y.)	SAP 62-652-07	SAP 62-652-08	
(3) COMMON EXCAVATION, P	36,300	37,900	
(1) UNCLASSIFIED EXCAVATION, P	0	790	
SELECT GRANULAR BORROW, C.V.	15,000	16,080	
EMBANKMENT (C.Y.)			
(2) REGULAR EMBANKMENT	12,925	2,790	A0
TOPSOIL BORROW	2,885	1,880	A0
(2) SUBCUT FOR UNIFORMITY & COMPACTION	9,745	10,455	

(1) UNCLASSIFIED EXCAVATION FOR PONDING AREA.
(2) INCLUDES 30% SHRINKAGE FACTOR.
(3) INCLUDES 12" SUBCUT FOR UNIFORMITY & COMPACTION.

NO.	BY	DATE	REVISIONS
A2	TLL	12-12-90	REVISED QUANTITIES
A1	JMP	12-4-90	ITEM NO.'S PUT INTO ORDER, ADDED INSTALL FENCE REMOVED MASONRY WALL & SPLIT RAIL FENCE
A0	CFBM	8-27-90	REVISED QUANTITIES
A5	JMP	7-24-90	REVISED 'WALKS' CHART
A3	JMP	7-24-90	ADDED REMOVAL ITEM
A4	LCH	7-18-90	CORRECTED ITEM NO.
	BJ	7-3-90	B-612 & B-624 PARTICIPATION
A6	JMP	6-7-90	ADDED INSULATION & LOWERING ITEMS A6* JMP 7-24-90 CORRECTED UNIT
A3	JMP	6-5-90	ADDED FENCE ITEM, CORRECTED ITEM NO.'s, ADJUSTED QUANTITIES
A4	JMP	6-5-90	ADDED 12" SUBCUT QUANTITIES & NOTE; CHANGED EXC. & EMB. QUANTITIES
A5	JMP	5-30-90	CHANGED DIVISION OF QUANTITIES A5* JMP 7-24-90 REVISED QUANTITIES
A2	JMP	5-30-90	ADDED WALKS & C&G BREAKDOWN CHARTS
A1	JMP	5-30-90	REARRANGED CHART

ITEM | DESIGN | CHECKED

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: 5/14/90 Reg. No. 9046

ENGINEERS ■ ARCHITECTS ■ PLANNERS

ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: M.R.
DATE: 3-31-93

RAMSEY CO., MINNESOTA

ESTIMATED QUANTITIES

28-114

FILE NO. 89140 | 5
DATE 5/14/90 | 60

S.A.P. 62-652-07 & 62-652-08

LINE	STRUCT. NO.	LOCATION				REMOVE			DESIGN			ADJ. M.H.	CASTING TYPE	TOP OF CAST	OUTLET ELEV.	CONST. HEIGHT	DRAINS TO			REMARKS	LINE	FURNISH AND INSTALL PIPE SEWER										CLASS
		STATION	CONST.CL LT.	CONST.CL RT.	SURVEY LINE	M.H.	C.B.		M.H.	C.B.	RECONN						NO.	% GRADE	INLET ELEV.			15" LIN.FT.	18" LIN.FT.	21" LIN.FT.	24" LIN.FT.	27" LIN.FT.	30" LIN.FT.	36" LIN.FT.	42" LIN.FT.	48" LIN.FT.	LIN.FT.	LIN.FT.	
1	100	225+63		100.0	VICTORIA STREET								APRON		946.00		POND		946.00	30" APRON/TRASHGUARD	1											
2	101	225+95		48.0	VICTORIA STREET					C-1			R-3067V	953.67	946.14	7.53	100	0.25	946.00	REPLACE IN EXIST. LOCATION	2					49							III
3	102	226+29		69.0	VICTORIA STREET					DS-2			R-3067V	953.90	948.60	5.30	103	1.00	948.26		3	34											V
4	103	226+22		35.0	VICTORIA STREET				C				R-1733	954.70	946.22	8.48	101	0.15	946.18		4				30								III
5	104	228+21		34.5	VICTORIA STREET					DS-5			790-2-712	952.85	946.52	6.33	103	0.15	946.22		5				199								III
6	105	228+21		20.0	VICTORIA STREET												104	0.05±	946.52	EXTEND EXIST. 15" RCP	6	16											V
7	106	228+45		68.0	VICTORIA STREET								APRON		947.52		104	1.00	947.12	15" APRON/TRASHGUARD	7	34											V
8	107	3+66	℄		COUNTY ROAD E				B				R-1733	952.15	946.60	5.55	111	0.50	946.00		8		120										III
9	107A	6+40	℄		COUNTY ROAD E				B				R-1733	953.52	948.17	5.35	107	0.50	946.80		9	292											II
10	108	2+58	℄		COUNTY ROAD E				B				R-1733	951.64	947.34	4.30	107	0.50	946.80		10	108											II
11	109	2+48	25.5		COUNTY ROAD E					DS-2			R-3067V	950.91	947.62	3.29	108	1.00	947.34		11	28											V
12	110	2+48		25.5	COUNTY ROAD E					DS-2			R-3067V	950.91	947.62	3.29	108	1.00	947.34		12	28											V
13	111	SEE PLAN			EASEMENT										950.5±	944.70		112	0.50	944.3±	REMAIN AS IS	13											
14	112	SEE PLAN			EASEMENT				C				R-1733	951.0±	944.34	6.66	STORM	0.37	943.6±		14					210							III
15	113	SEE PLAN			EASEMENT				C				R-1733	952.5±	945.82	6.68	112	1.00	944.88	MATCH EXISTING GROUND	15			94								III
16	114	232+52		7.0	VICTORIA STREET				C				R-1733	958.72	947.67	11.05	113	0.90	945.82		16			206									III
17	115	231+05	7.0		VICTORIA STREET				C				R-1733	956.36	948.52	7.84	114	0.15	948.29	6-7 1/2" SHORT R. BENDS	17			153									III
18	116	230+95	34.5		VICTORIA STREET					LP-4			790-2-712	956.14	951.64	4.50	115	1.00	951.33		18	31											V
19	117	230+42	7.0		VICTORIA STREET				C				R-1733	954.85	948.61	6.24	115	0.15	948.52		19			63									III
20	118	230+32		34.5	VICTORIA STREET					LP-4			790-2-712	954.59	950.09	4.50	117	1.00	949.64		20	45											V
21	119	229+30	7.0		VICTORIA STREET				B				R-1733	953.03	948.78	4.25	117	0.15	948.61		21			112									III
22	120	229+20	34.5		VICTORIA STREET					LP-4			790-2-712	953.00	949.00	4.00	119	0.40	948.88		22	31											V
23	121	234+20	7.0		VICTORIA STREET				C				R-1733	959.17	949.36	9.81	114	0.50	948.49	6-7 1/2" SHORT R. BENDS	23			174									III
24	124	236+00	7.0		VICTORIA STREET				C				R-1733	957.82	950.26	7.56	121	0.50	949.36		24			180									III
25	127	237+81	7.0		VICTORIA STREET				B				R-1733	956.60	951.16	5.46	124	0.50	950.26		25			181									III
26	128	237+91	34.5		VICTORIA STREET					LP-4			790-2-712	956.60	952.10	4.50	127	1.00	951.79		26	31											V
27	129	237+91		34.5	VICTORIA STREET					LP-4			790-2-712	956.60	952.10	4.50	127	1.00	951.65		27	45											V
28	130	239+72	7.0		VICTORIA STREET				B				R-1733	958.25	953.47	4.78	127	1.00	951.56		28	191											V
29	131	239+82	34.5		VICTORIA STREET					LP-4			790-2-712	958.42	953.92	4.50	130	1.00	953.61		29	31											V
30	132	239+82		34.5	VICTORIA STREET					LP-4			790-2-712	958.42	953.92	4.50	130	1.00	953.47		30	45											V
31	133	241+00	7.0		VICTORIA STREET				B				R-1733	960.98	956.12	4.86	130	1.80	953.82		31	128											II
32	134	243+55	19.0		VICTORIA STREET				B				R-1733	966.41	961.28	5.13	133	1.00	956.12		32	258											II
33	135	243+65	34.5		VICTORIA STREET										962.30		134	1.00	962.10	STUB FOR FUTURE CB	33	20											V
34	136	243+65		34.5	VICTORIA STREET					LP-4			790-2-712	966.80	962.30	4.50	134	1.00	961.74		34	56											V
35	137	SEE PLAN			EASEMENT				C				R-1733	974.22	962.83	11.39	137A	0.30	961.68		35				385								III
36	137A	SEE PLAN			EASEMENT				C				R-1733	965.68	960.18	5.50	137B	0.30	960.04		36				39								III
37	137B	SEE PLAN			EASEMENT								APRON		960.04		DITCH			24" APRON/TRASHGUARD	37											
38	138	SEE PLAN			EASEMENT								R-2565-C	969.17	963.40	5.77	137	0.30	962.83	SPECIAL STRUCTURE #1	38				190								IV
39	139	256+87		62.0	VICTORIA STREET								APRON		963.45		DITCH			24" APRON/TRASHGUARD	39											
40	140	257+21		34.5	VICTORIA STREET					DS-5			790-2-712	969.08	963.67	5.41	139	0.50	963.45		40				39								III
41	141	257+05		7.0	VICTORIA STREET				B				R-1733	969.16	964.54	4.62	140	0.80	964.26		41	35											II
42	142	257+21	34.5		VICTORIA STREET										965.02		141	1.00	964.54	STUB FOR FUTURE CB	42	48											V
43	143	257+75		7.0	VICTORIA STREET				C				R-1733	968.98	963.98	5.00	140	0.50	963.67		43				62								III
44	144	257+91	34.5		VICTORIA STREET										964.96		143	1.00	964.62	STUB FOR FUTURE CB	44	34											V
45	145	257+91		34.5	VICTORIA STREET					LP-4			790-2-712	968.96	964.96	4.00	143	1.00	964.50		45	45											V
46	148	255+65		7.0	VICTORIA STREET				C				R-1733	970.42	965.66	4.76	141	0.80	964.54		46	140											II
47	149	255+55		7.0	VICTORIA STREET										965.78		148	1.30	965.66	STUB FOR FUTURE STORM	47	15											II
48	150	259+95		7.0	VICTORIA STREET				C				R-1733	970.02	965.50	4.52	143	0.60	964.18		48			220									III
49	151	260+13	33.2		VICTORIA STREET										966.35		150	1.00	965.97	STUB FOR FUTURE CB	49	38											V
50	152	260+13		27.5	VICTORIA STREET					LP-4			790-2-712	970.35	966.35	4.00	150	1.00	966.11		50	24											V
51	153	262+25	7.0		VICTORIA STREET				B				R-1733	972.74	967.36	5.38	150	0.80	965.50		51		232										III
52	154	262+59	46.3		VICTORIA STREET					C			R-4342	972.00	968.24	3.76	153	1.00	967.72		52	52											V
53	155	263+45	7.0		VICTORIA STREET				B				R-1733	974.16	968.76	5.40	153	1.00	967.56		53	120											II
54	156	263+55	27.5		VICTORIA STREET					LP-4			790-2-712	974.41	969.91	4.50	155	1.00	969.66		54	25											V
55	157	263+55		27.5	VICTORIA STREET					LP-4			790-2-712	974.41	969.91	4.50	155	1.00	969.53		55	38											V
56	158	265+85	7.0		VICTORIA STREET				B				R-1733	976.51	971.16	5.35	155	1.00	968.76		56	240											II
57	159	265+95	27.5		VICTORIA STREET					LP-4			790-2-712	976.73	972.23	4.50	158	1.00	971.98		57	25											V
58	160	265+95		27.5	VICTORIA STREET					LP-4			790-2-712	976.73	972.23	4.50	158	1.00	971.85		58	38											V
59	161	269+12	7.0		VICTORIA STREET				B				R-1733	979.45	973.78	5.67	158	0.80	971.16		59	327											II
60	162	269+22	27.5		VICTORIA STREET					LP-4			790-2-712	979.67	975.17	4.50	161	1.00	974.92		60	25											V
61	163	269+22		27.5	VICTORIA STREET					LP-4			790-2-712	979.67	975.17	4.50	161	1.00	974.79		61	38											V
62	164	272+25	7.0		VICTORIA STREET				B				R-1733	982.23	976.28	5.95	161	0.80	973.78		62	313											II
63	165	272+35	27.5		VICTORIA STREET					LP-4			790-2-712	982.44	977.94	4.50	164	1.00	977.69		63	25											V
64	166	272+35		27.5	VICTORIA STREET					LP-4			790-2-712	982.44	977.94	4.50	164	1.00	977.56		64	38											V
65	167	278+90	7.0		VICTORIA STREET				B				R-1733	982.91	977.41	5.50	170	0.80	975.17		65	280											II
66	168	278+80	27.5		VICTORIA STREET					LP-4			790-2-712	983.12	978.62	4.50	167	1.00	978.37		66	25											V
67	169	278+80		27.5	VICTORIA STREET					LP-4			790-2-712	983.12	978.62	4.50	167	1.00	978.24		67	38											V
68	170	281+70	7.0		VICTORIA STREET				B				R-1733	980.53	974.42	6.11	175	3.00	972.02		68			80									III
69	171	282+60	℄		VICTORIA STREET				B				R-1733	980.82	975.32	5.50	170	1.00	974.42		69			90									III
70	172	282+88		24.0	VICTORIA STREET					C			R-4342	979.80	976.09	3.71	171	1,00	975.52		70		57										V
71	109A	2+65	50.0		COUNTY ROAD E								APRON		947.86		109	1.00	947.63	15"APRON/TRASHGUARD	71	17											V
72	112A	SEE PLAN			EASEMENT								APRON		949.0±		112	2.00	948.24	15"APRON/TRASHGUARD	72	32											II
73																					73											

CONTINUED ON SHEET NO.7

BASE | OVERLAY | DRG NO.

ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: M.R.
DATE: 3-31-93

28-114

NO.	BY	DATE	REVISIONS

ITEM | DESIGN | CHECKED

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 5/14/90 Reg No. 9046

ENGINEERS ■ ARCHITECTS ■ PLANNERS

RAMSEY CO., MINNESOTA

SCHEDULES

FILE NO. 89140
DATE 5/14/90
6 / 60

S.A.P. 62-652-07 & 62-652-08

DRG NO. | OVERLAY | BASE

LINE	STRUCT. NO.	LOCATION STATION	CONST.℄ LT.	CONST.℄ RT.	SURVEY LINE	REMOVE M.H.	REMOVE C.B.	REMOVE	DESIGN M.H.	DESIGN C.B.	DESIGN RECOND.	ADJ. M.H.	CASTING TYPE	TOP OF CAST	OUTLET ELEV.	CONST. HEIGHT	DRAINS TO NO.	DRAINS TO % GRADE	DRAINS TO INLET ELEV.	REMARKS
1	173	4+25		27.5	COUNTY ROAD F					LP-4			790-2-712	980.04	975.36	4.68	170	1.00	974.66	
2	174	4+25	19.7		COUNTY ROAD F					DS-2			R-3067V	979.47	975.85	3.62	173	1.00	975.36	
3	175	5+75		19.7	COUNTY ROAD F					B-1			R-3067V	977.70	972.02	5.68	176	3.00	961.23	
4	176	8+15		25.0	COUNTY ROAD F				B				R-4342	966.20	961.23	5.97	177	7.00	950.38	
5	177	9+70		25.0	COUNTY ROAD F				B				R-4342	956.60	950.38	6.22	178	6.50	940.95	
6	178	11+15		23.0	COUNTY ROAD F				B				R-4342	947.50	940.95	6.55	179	6.00	934.35	
7	179	12+20	3.0		COUNTY ROAD F				C				R-4342	939.50	934.15	5.15	180	9.00	927.22	
8	180	13+00	3.0		COUNTY ROAD F				EXIST				EXISTING	EXIST.						
9	181	SEE PLAN			EASEMENT				F				R-1733	938.0±	922.43	15.57	182	0.50	922.00	
10	182	SEE PLAN			EASEMENT								APRON		922.00		POND			48"APRON/TRASHGUARD
11	183	SEE PLAN			EASEMENT								R-2565-C	929.17	922.0±		STM			SPECIAL STRUCTURE#2
12																				

LINE	FURNISH AND INSTALL PIPE SEWER 15" LIN.FT.	18" LIN.FT.	21" LIN.FT.	24" LIN.FT.	27" LIN.FT.	30" LIN.FT.	36" LIN.FT.	42" LIN.FT.	48" LIN.FT.			CLASS
1	70											II
2	49											V
3			240									III
4			155									III
5			145									III
6			110									III
7				77								III
8												
9									79			IV
10												
11												
12												

REMOVAL CHART

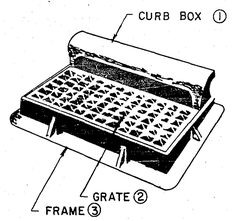
LOCATION STATION	CONST.℄ LT.	CONST.℄ RT.	CONCRETE DRIVEWAY S.Y.	PIPE L.F.	MANHOLE EACH	CATCH BASIN EACH	CONCRETE CURB & GUTTER L.F.	OUTLET STRUCTURE
225+93		48		55		1		
226+23		49		30		1		
226+00 TO 229+00		VARIES					340	
228+22		22				1	54	
228+49				65				
229+10 TO 230+46	VARIES						225	
229+20	35			80		1		
229+33		45		72		1		
229+56	57			42		1		
229+86		28		55		1		
230+41	60			86		1		
230+76			180					
244+80				45				
247+50		7					56	
256+68	40			75				
256+74		19		26				1
257+60 TO 259+90	VARIES						441	
259+28		25		90				
260+50	40			20				
261+00	36			22				
261+17		22		25				
261+75		25		22				
262+10	27			21				
263+24	28			20				
264+05	28			22				
265+23	29			62				
265+40		25		52				
266+21	31			24				
266+40		26		42				
269+65	27		51					
272+12	25		102					
275+00		40					10	
275+11	46						27	
275+40	46						27	
275+45		40					10	
278+18		32	24					
279+00		25		20				
279+60		25		20				
280+05		25		26				
281+00		30		24				
282+67		28		20				
COUNTY ROAD E								
2+15		22		52		1		
2+80	31			143				
4+15	32			32				
4+65		35		50				
COUNTY ROAD F								
1+10		28		95				
7+85		22		145				
12+20		1		125	1			

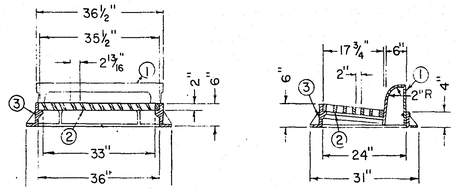
NOTES:

MATERIALS: CAST GRAY IRON, CLASS 30, MN/DOT SPEC. REFERENCE 3321

CURB BOX HEIGHT SHALL BE ADJUSTABLE 6" TO 9"

SEE DETAILS THIS PAGE FOR CATCH BASIN DESIGN SPECIAL 2 AND CATCH BASIN DESIGN 2 MODIFIED CASTING INSTALLATION DETAIL.





CASTING ASSEMBLY
(FOR DS-2 CATCH BASIN)

The following Standard Plates, approved by the FEDERAL HIGHWAY ADMINISTRATION, shall apply on this project.

MN/DOT STANDARD PLATES

PLATE NO.	DESCRIPTION
0005 A	SPECIFICATION REFERENCE TO STANDARD PLATES
3000L	REINFORCED CONCRETE PIPE
3006 F	GASKET JOINT FOR REINFORCED CONCRETE PIPE
3100 G	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
3133 B	RIPRAP AT REINFORCED CONCRETE PIPE OUTLETS
3145 E	CONCRETE PIPE TIES
4002 E	MANHOLE OR CATCH BASIN
4011 D	PRECAST CONCRETE BASE
4020 E	MANHOLE OR CATCH BASIN
4021 C	PRECAST CURB OPENING CATCH BASIN
4180 H	MANHOLE OR CATCH BASIN STEP
7020 J	CONCRETE CURB
7035 J	CONCRETE WALK & CURB RETURNS AT ENTRANCES
7036 C	PEDESTRIAN CURB RAMP
7100 F	CONCRETE CURB AND GUTTERS
7111 G	INSTALLATION & REINFORCEMENT OF CATCH BASIN CASTINGS
8000 I	STANDARD BARRICADES
8128 A	LIGHT BASE – DESIGN H
7065 C	BITUMINOUS CURB
8117 F	PRECAST CONCRETE HANDHOLE (OR PULLBOX)
3040F	CORRUGATED METAL PIPE CULVERT

PLATE NO.	DESCRIPTION
⚠ 3221 C	CORRUGATED METAL PIPE COUPLING BAND
⚠ 7102H	CONCRETE CURB AND GUTTER

EXISTING STRUCTURES

LINE	STRUCT. NO.	LOCATION STATION	CONST.℄ LT.	CONST.℄ RT.	CASTING ELEVATION ORIGINAL	CASTING ELEVATION NEW	CASTING TYPE	RECONSTRUCT (L.F.)	ADJUST (EACH)	REMARKS
1	1	227+93		21	952.96	952.86			X	WATER VALVE MH
2	2	229+24		20	952.40	952.82			X	WATER VALVE MH
3	3	229+74		24	953.21	953.14			X	WATER VALVE MH
4	4	231+34	36		959.20	957.04		4.0		
5	5	232+48	36		960.23	958.72		4.0		
6	6	232+45		28	956.85	958.26			X	
7	7	246+30	45		±971+50	±971.50			X	WATER VALVE MH
8	8	261+00	32		972.62	971.75			X	
9	9	261+06		15	±969.00	971.20		8.0		
10	10	263+48	24		974.65	973.92		5.5 ①		
11	11	264+86	24		976.29	975.33		5.0 ②		
12	12	268+27		11	980.34	978.62		4.0		WATER VALVE MH
13	13	268+65	26		980.71	978.62		4.0		
14	14	268+68	71		979.45	979.45			X	
15	15	268+74		31	±980.10	±978.90		4.5		WATER VALVE MH
16	16	272+58	20		±984.10	982.29		4.0		
17	17	277+98	21		984.82	983.44		4.5		
18	18	282+25	19		980.58	980.39			X	
19										
20	COUNTY ROAD E									
21	19	3+21	42		±948.00	952.52		10.0		
22	20	4+22	18		±950.10	952.13		4.0		WATER VALVE MH
23	21	6+10	40		±953.10	953.10			X	
24	COUNTY ROAD F									
25	22	3+15	15						X	

NOTES

① REMOVE CONCENTRIC CONE. INSTALL ±3.5 L.F. 4' DIA. BARREL SECTION & CONCENTRIC FLAT SLAB. INSTALL OPENING IN SLAB TO STREET (EAST) SIDE OF MANHOLE. INSTALL NEW STEPS, ON BOTH THE RECONSTRUCT AND EXISTING PORTION OF M.H. ON STREET SIDE OF M.H. WALL.

② REMOVE CONCENTRIC CONE. INSTALL ±4 L.F. 4' DIA. BARREL SECTION & CONCENTRIC FLAT SLAB. INSTALL OPENING IN SLAB TO STREET (EAST) SIDE OF MANHOLE. INSTALL NEW STEPS, ON BOTH THE RECONSTRUCT AND EXISTING PORTION OF M.H. ON STREET SIDE OF M.H. WALL.

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: M.R.
DATE: 3-31-93

⚠ LCH 7-18-90 REVISED STANDARD PLATES

NO. | BY | DATE | REVISIONS | ITEM | DESIGN | CHECKED

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 5/14/90 Reg. No. 9046

ENGINEERS ■ ARCHITECTS ■ PLANNERS

RAMSEY CO., MINNESOTA

SCHEDULES 28-114

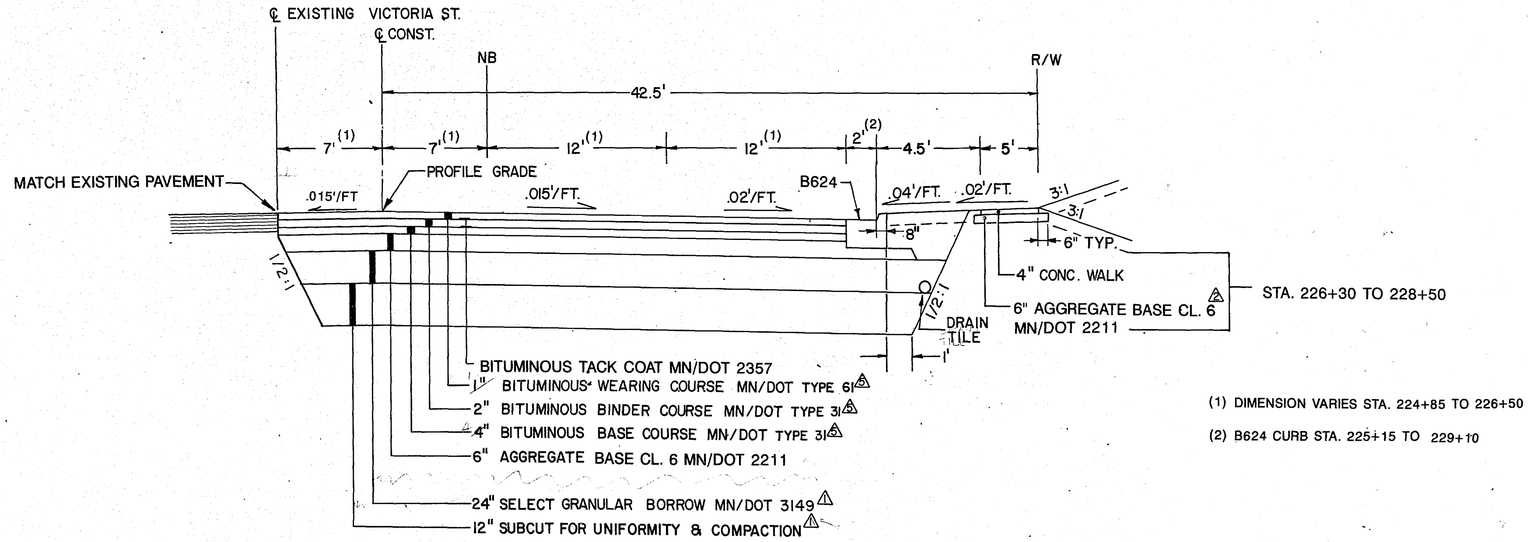
FILE NO. 89140 | DATE 5/14/90 | 7/60

S.A.P. 62-652-07 & 62-652-08

BASE | OVERLAY | DRG NO.

VICTORIA STREET

STA. 224+85 TO STA. 229+10



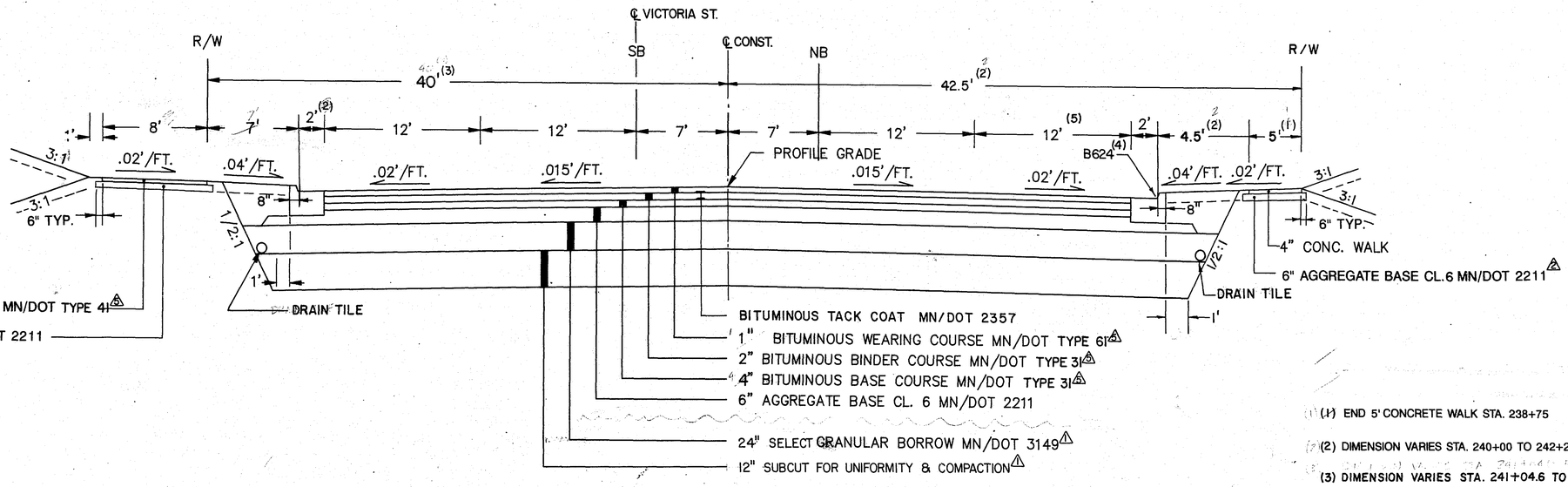
(1) DIMENSION VARIES STA. 224+85 TO 226+50

(2) B624 CURB STA. 225+15 TO 229+10

⚠2 NOTE: 2' OBSTACLE FREE CLEAR ZONE REQUIRED FROM FACE OF CURB

VICTORIA STREET

STA. 229+10 TO STA. 242+20



(1) END 5' CONCRETE WALK STA. 238+75

(2) DIMENSION VARIES STA. 240+00 TO 242+20

(3) DIMENSION VARIES STA. 241+04.6 TO 242+20

(4) B624 CONCRETE CURB & GUTTER ENDS @ 241+45. BITUMINOUS CURB BEGINS.

(5) DIMENSION VARIES STA. 241+45 TO 242+20

ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: M.R.
DATE: 3-31-93

NO.	BY	DATE	REVISIONS
⚠5	JMP	11-27-90	CHANGE TO TYPE 31, 41 & 61
⚠4	LCH	7-18-90	ADDED NOTE
⚠3	AT	6-5-90	~~CHANGE TO 2361 MODIFIED~~
⚠2	JMP	5-31-90	AGG. CHANGE
⚠1	JMP	5-31-90	SECTION CHANGE

ITEM | DESIGN | CHECKED

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Date 5/14/90 Reg. No. 9046

SEH ENGINEERS ■ ARCHITECTS ■ PLANNERS

RAMSEY CO., MINNESOTA

TYPICAL SECTIONS
28-114

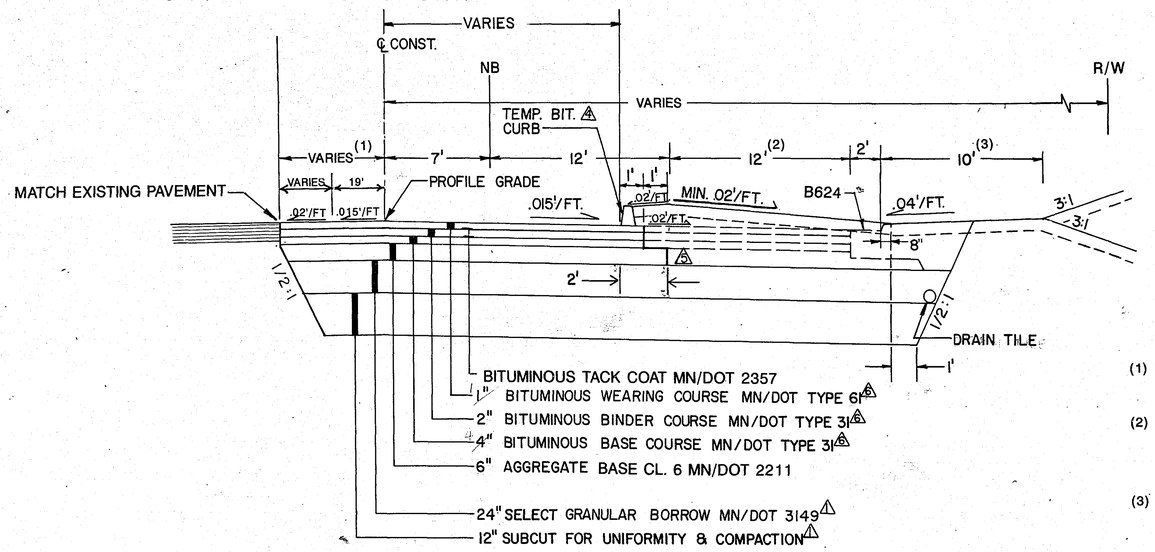
FILE NO. 89140
DATE 5/14/90
8 / 60

S.A.P. 62-652-07 & 62-652-08

BASE | OVERLAY | DRG. NO

VICTORIA STREET

STA. 242+20 TO STA. 246+60



(1) DIMENSION IS 33' STA. 242+20 TO 243+00
DIMENSION IS 37' STA. 243+40 TO 245+70

(2) DIMENSION VARIES STA. 244+35 TO 245+05
DIMENSION IS 34' STA. 245+05 TO 246+60
(RT. TURN LANE CONSTRUCTION)

(3) DIMENSION VARIES STA. 244+35 TO 245+05
DIMENSION IS 5' STA. 245+05 TO 246+60

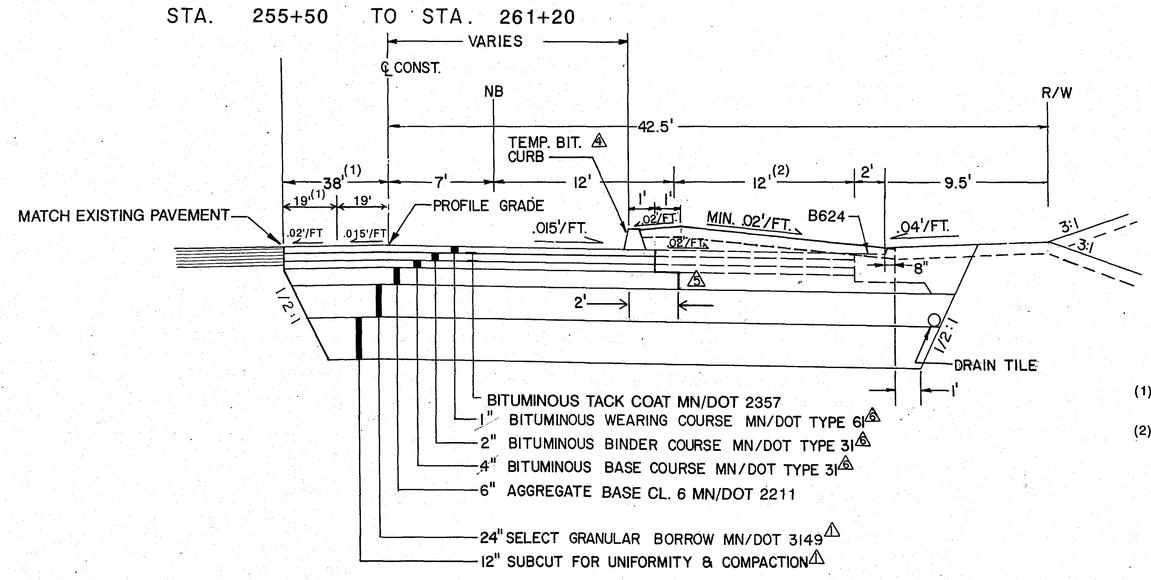
VICTORIA STREET

STA. 246+60 TO STA. 255+50
EXCEPTION

⚠5 NOTE: 2' OBSTACLE FREE CLEAR ZONE REQUIRED FROM FACE OF CURB

VICTORIA STREET

STA. 255+50 TO STA. 261+20



(1) DIMENSION VARIES STA. 260+00 TO 261+20

(2) DIMENSION IS 5' STA. 255+55 TO 256+15 & STA. 260+07 TO 261+20
DIMENSION VARIES STA. 256+15 TO 256+50 & STA. 259+35 TO 260+07

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: M.R.
DATE: 3-31-93

NO.	BY	DATE	REVISIONS
⚠6	JMP	11-27-90	CHANGE TO TYPE 31 & 61
⚠5	JEC	8-31-90	AGGREGATE BASE LIMITS
⚠4	CFBM	8-27-90	ADDED TEMP. BIT. CURB, DIMENSIONS, DASHED FUTURE BIT. & CURB
⚠3	LCH	7-18-90	ADDED NOTE
⚠2	AT	6-5-90	~~CHANGE TO 2341 MODIFIED~~
⚠1	JMP	5-31-90	SECTION CHANGE

ITEM | DESIGN | CHECKED

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Date 5/14/90 Reg. No. 9046

ENGINEERS ■ ARCHITECTS ■ PLANNERS

RAMSEY CO., MINNESOTA

TYPICAL SECTIONS
28-114

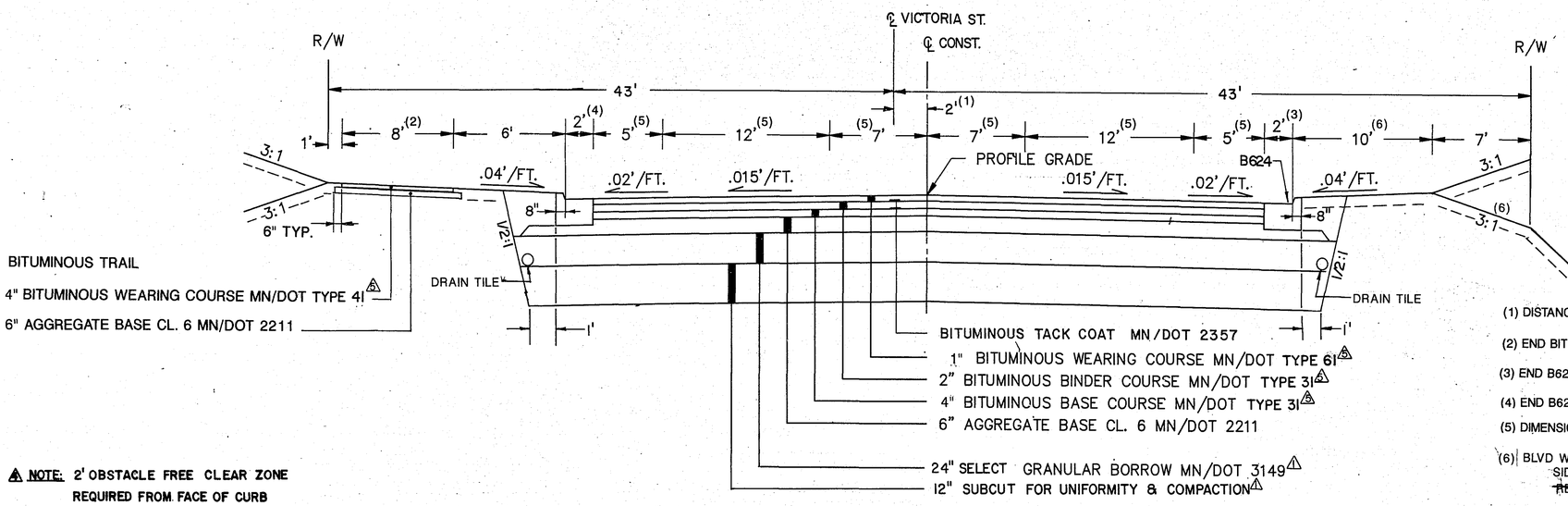
FILE NO. 89140
DATE 5/14/90
9 / 60

S.A.P. 62-652-07 & 62-652-08

BASE	OVERLAY	DRG. NO.

VICTORIA STREET

STA. 261+20 TO STA. 283+70



⚠ NOTE: 2' OBSTACLE FREE CLEAR ZONE REQUIRED FROM FACE OF CURB

(1) DISTANCE VARIES STA. 261+20 TO 262+40.64 AND STA. 281+92.12 TO 283+70

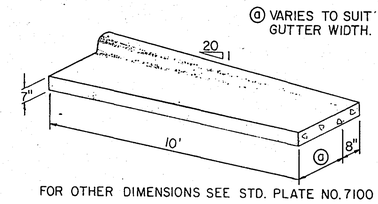
(2) END BITUMINOUS TRAIL STA. 281+70

(3) END B624 CURB STA. 283+10

(4) END B624 CURB STA. 283+10

(5) DIMENSION VARIES 282+40 TO 283+70

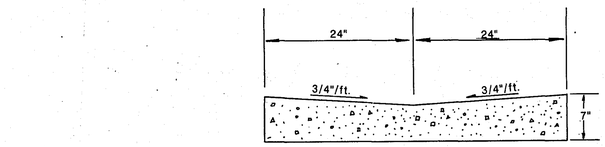
(6) BLVD WIDTH REDUCED TO 8' STA. 271+50 TO 278+00
SIDE SLOPE CHANGED TO 2:1 BEYOND R/W STA. 271+50 TO 277+90 ⚠5
~~RETAINING WALL STA. 275+70 TO 277+90~~



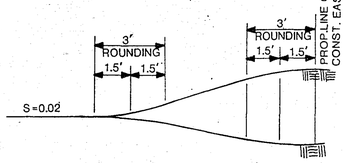
ⓐ VARIES TO SUIT GUTTER WIDTH.

FOR OTHER DIMENSIONS SEE STD. PLATE NO. 7100

TRANSITION B612 & B624 C. & G. VERTICAL TAPER

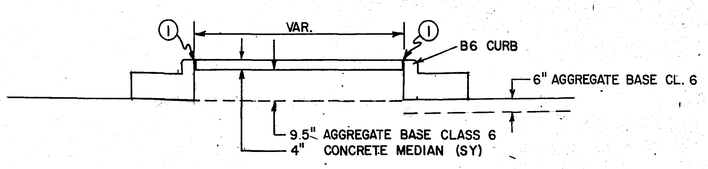


VALLEY GUTTER



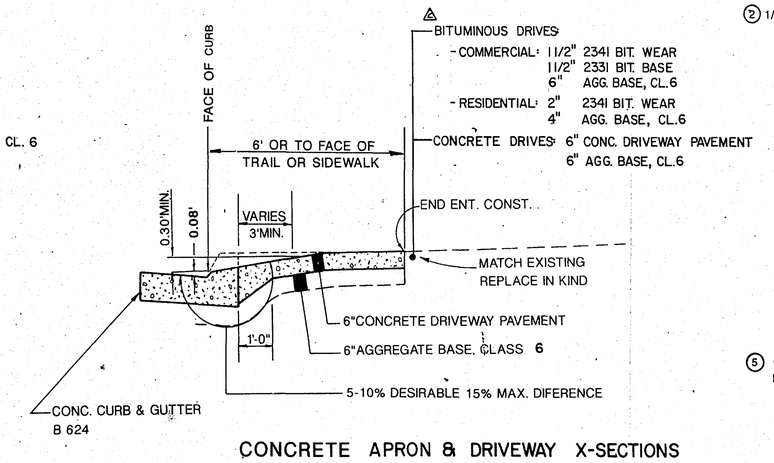
SLOPE ROUNDING DETAIL

ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: M.R.
DATE: 3-31-93



NOTES: ① INSTALL 1/2" PREFORMED JOINT FILLER MATERIAL
② TRANSVERSE & LONGITUDINAL EXPANSION & CONTRACTION JOINTS SHALL BE PLACED AS DIRECTED BY THE ENGINEER
③ CONSTRUCT MEDIANS WITH REVERSE SLOPE GUTTER AS DIRECTED BY THE ENGINEER – REFER TO STANDARD PLATE 7100

CONCRETE MEDIAN DETAIL ⚠4



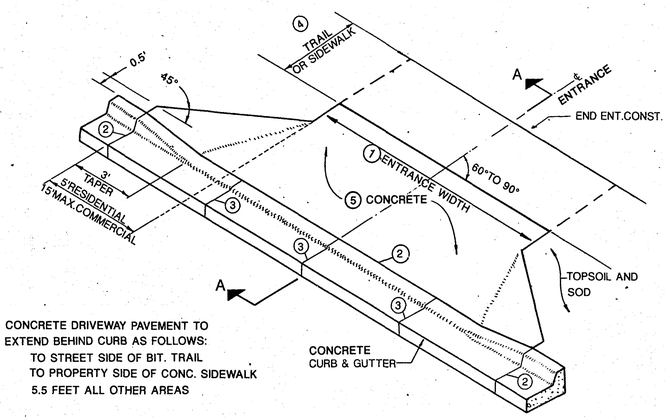
CONCRETE APRON & DRIVEWAY X-SECTIONS
SECTION A-A

① ENTRANCE WIDTHS: SEE PLAN

② 1/2"EXPANSION JOINT

③ PLACE JOINTS AS REQUIRED FOR CONC. CURB & GUTTER CONST.

④ SEE CONST. PLANS FOR LOCATION OF BITUMINOUS TRAIL OR CONCRETE SIDEWALK



⑤ CONCRETE DRIVEWAY PAVEMENT TO EXTEND BEHIND CURB AS FOLLOWS:
TO STREET SIDE OF BIT. TRAIL
TO PROPERTY SIDE OF CONC. SIDEWALK
5.5 FEET ALL OTHER AREAS

DRIVEWAY DETAIL

NO.	BY	DATE	REVISIONS
7	TL	2-12-90	ADDED CONCRETE MEDIAN DETAIL
⚠6	JMP	11-28-90	ELIMINATE RETAINING WALL
⚠5	JMP	11-27-90	CHANGE TO TYPE 31 & 61 & 41
⚠4	LCH	7-18-90	ADDED NOTE
⚠3	AT	6-5-90	~~CHANGE TO 2361 MODIFIED~~
⚠2	JMP	5-31-90	ADDED TYPICAL DW. SECTIONS
⚠1	JMP	5-31-90	SECTION CHANGE

ITEM	DESIGN	CHECKED

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Date 5-14-90 Reg. No. 9046

ENGINEERS ■ ARCHITECTS ■ PLANNERS

RAMSEY CO., MINNESOTA

TYPICAL SECTIONS & DETAILS

28-114

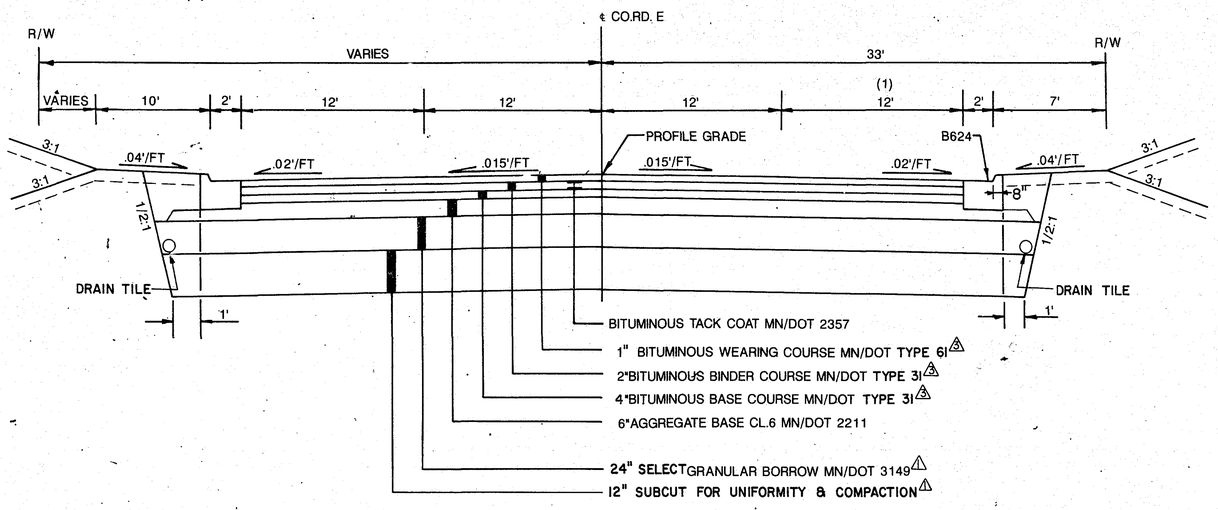
FILE NO. 89140
DATE 5/14/90
10 / 60

S.A.P. 62-652-07 & 62-652-08

BASF | OVERLAY | DWG. NO.

COUNTY ROAD E

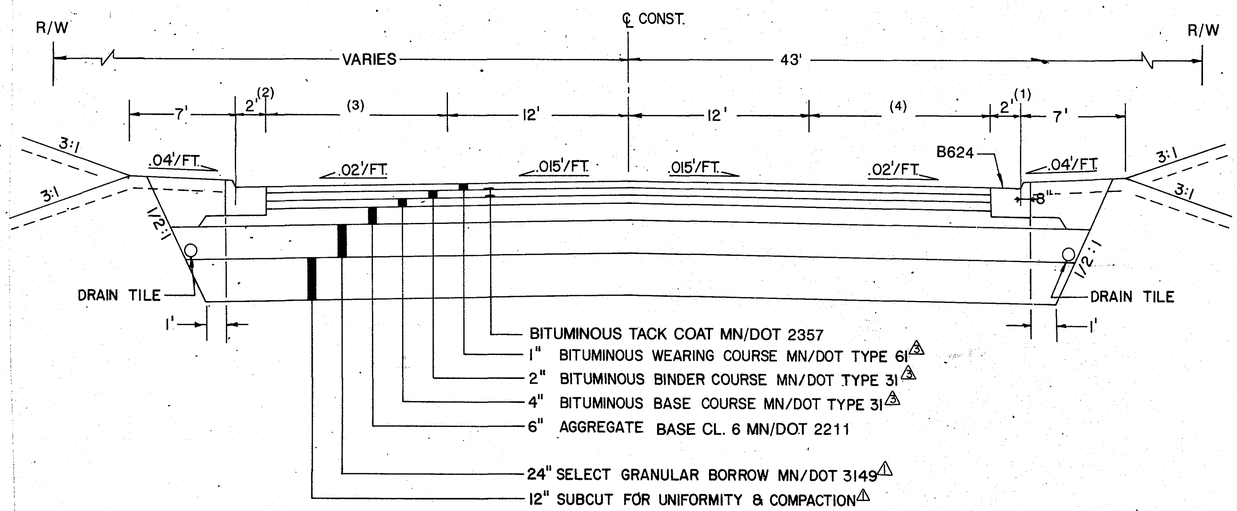
STA 1+33 TO STA 6+50



(1) DIMENSION VARIES STA. 5+60 TO 6+50

COUNTY ROAD F

STA. 0+16 TO STA. 6+76



(1) B624 CURB STA. 0+66 TO 6+00

(2) B624 CURB STA. 4+10 TO 6+00

(3) DIMENSION IS ZERO STA. 0+16 TO 4+10 AND STA. 6+00 TO 6+76
DIMENSION IS 6' STA. 4+10 TO 5+00
DIMENSION IS 12' STA. 5+00 TO 6+00

(4) DIMENSION VARIES STA. 0+16 TO 0+81
DIMENSION IS 12' STA. 0+81 TO 5+00
DIMENSION IS 6' STA. 5+00 TO 6+76

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: M.R.
DATE: 3-31-93

NO.	BY	DATE	REVISIONS
3	JMP	11-27-90	CHANCE TO TYPE 3I & 6I
2	JMP	6-5-90	ADDED CONCRETE RETAINING WALL & FENCING DETAILS
1	JMP	5-31-90	SECTION CHANGE

ITEM | DESIGN | CHECKED

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Date: 5/14/90 Reg No. 9046

ENGINEERS ■ ARCHITECTS ■ PLANNERS

RAMSEY CO., MINNESOTA

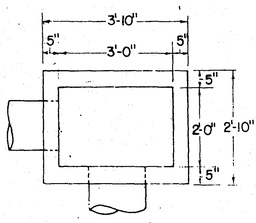
TYPICAL SECTIONS & DETAILS

28-114

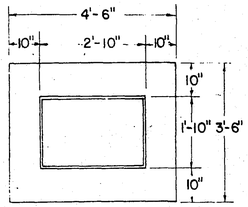
FILE NO. 89140
DATE 5/14/90
11
60

S.A.P. 62-652-07 & 62-652-08

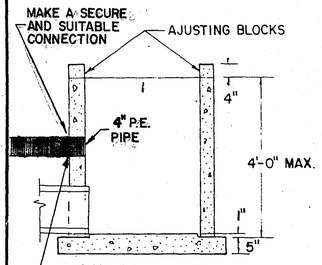
BASE | OVERLAY | DRAG NO.



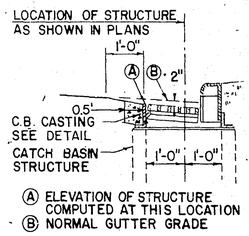
CATCH BASIN PLAN



BASE SLAB PLAN



SECTIONAL VIEW
CATCH BASIN & BASE SLAB



INSTALLATION DETAIL

TYPE DS-2 CATCH BASIN

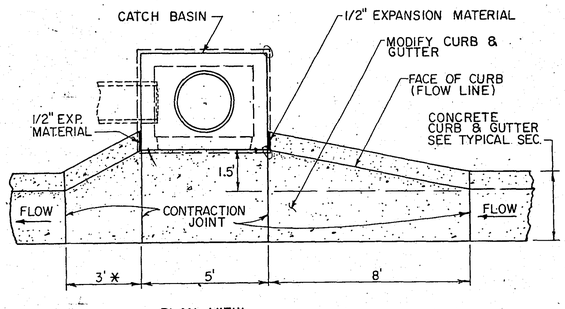
PIPE CUT-OUTS SHALL BE LOCATED WHERE REQUIRED.

ALTERNATE CAST-IN-PLACE BASE SLAB CAN BE USED.

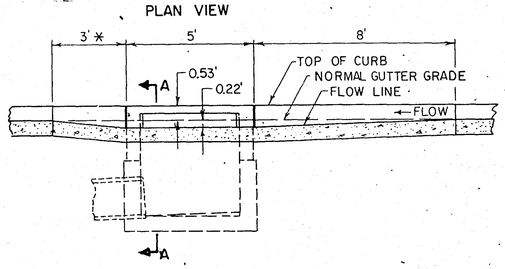
INSTALL AS PER MN/DOT STANDARD PLATE NO. 7111.

REINFORCING: SINGLE LINE STEEL WIRE FABRIC.
WALL = W3.5 X W3.0 HAVING AN AREA OF NOT LESS THAN .21 SQ. IN. PER FOOT OF HEIGHT.
BASE = W4.0 X W4.0 HAVING AN AREA OF NOT LESS THAN .16 SQ. IN. PER FOOT OF HEIGHT.

ALTERNATE CONSTRUCTION - THE CATCH BASIN MAY BE CONSTRUCTED OF BLOCKS OR BRICKS CONFORMING TO THE REQUIREMENTS OF MN/DOT SPEC. 2506 AND AS DIRECTED BY THE ENGINEER.

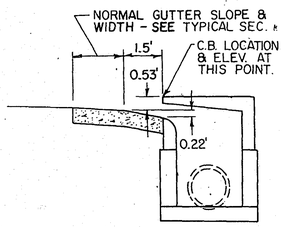


PLAN VIEW



ELEVATION
(AT FLOW LINE)

CURB OPENING CATCH BASIN - LP-4
INSTALLATION DETAIL

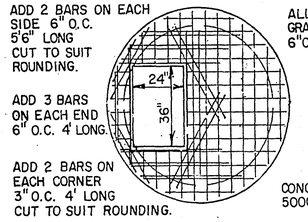


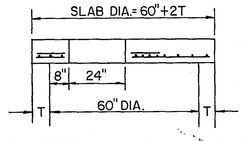
SECTION A-A

NOTES:

1. * DIMENSION SHALL BE 8' WHEN STRUCTURE INSTALLED AT LOW POINT IN GRADE
2. CATCH BASIN - DESIGN LP - SEE MN/DOT STD. PL. NO. 4021.
3. TOP OF CATCH BASIN SHALL BE INSTALLED AT SAME SLOPE AS BLVD. GRADES AND TOP OF CURB GRADE EACH SIDE OF STRUCTURE.
4. ELEVATION OF STRUCTURE IS COMPUTED AT LOCATION SHOWN IN SEC. A-A AT ℄ OF C.B. OPENING.

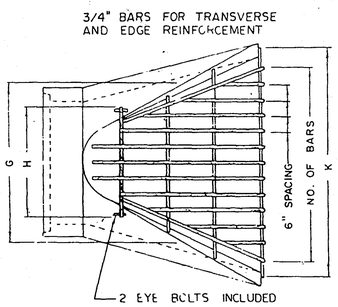
CATCH BASIN TYPE C
SEE MN/DOT STANDARD PLATE NO. 4002

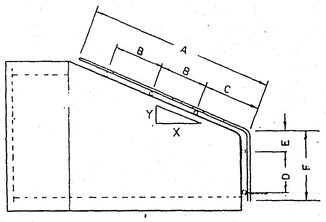




MANHOLE & CATCH BASIN COVER SLAB DESIGN W-4020

ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: M.R.
DATE: 3-31-93



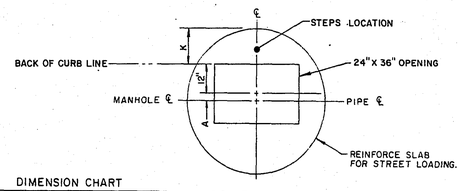


1/2" BARS FOR LONGITUDINAL INTERIOR BARS, WELD EACH INTERSECTION.

CONTRACTOR SHALL FURNISH SUITABLE LOCKING DEVICE APPROVED BY ENGINEER.

SIZE	NO. OF BARS	SLOPE	A	B	C	D	E	F	G	H	K
12"	5	3 to 1	24	7	6	5	2	8	24		30
15"	6	"	24	7	6	6	2	10	26		34
18"	7	"	24	7	6	6	3	12	28		40
21"	8	"	36	11	10	7	3	12	34		50
24"	9	"	44	14	12	10	4	16	36		52
27"	10	"	50	16	14	10	4	16	38		58
30"	11	"	56	18	16	12	4	18	42		64
36"	13	"	64	20	20	12	4	18	48		76
42"	15	"	68	22	20	16	8	26	60		88
48"	16	"	76	24	24	14	10	28	62		96
54"	17	2:1 to 1	76	24	24	10	12	32	68		96
44" SPAN	13	3 to 1	61	20	17	6	4	14	48		76

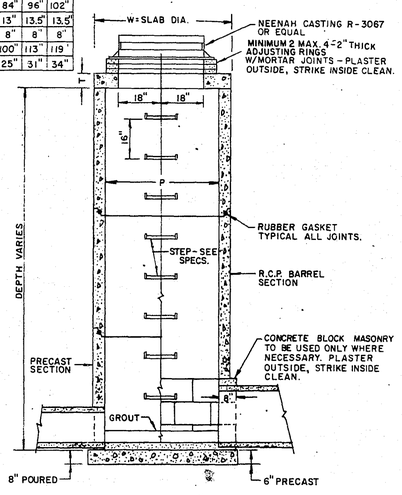
GALVANIZED TRASH GUARD
(FOR CONCRETE APRON)



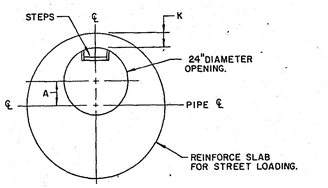
COVER SLAB

DIMENSION CHART

DIMEN.	MANHOLE TYPE					
	B-1	C-1	D-1	E-1	F-1	G-1
P	48"	60"	72"	84"	96"	102"
K	14"	13"	13"	13"	13.5"	13.5"
T	6"	8"	8"	8"	8"	8"
W	58"	72"	86"	100"	113"	119"
A	3"	11"	18"	25"	31"	34"



MANHOLE/CATCH BASIN TYPE B-1 THRU G-1

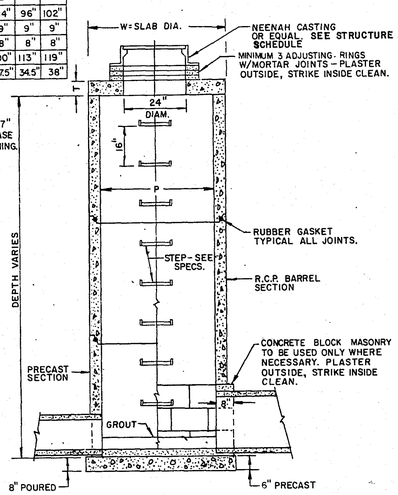


COVER SLAB

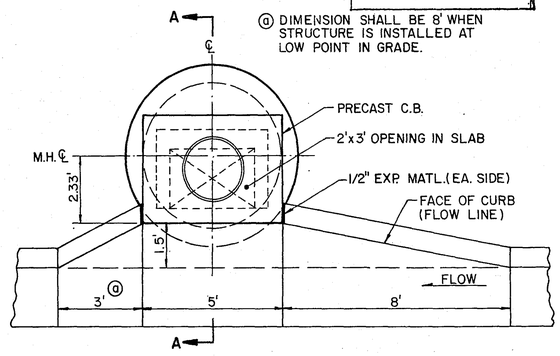
DIMENSION CHART

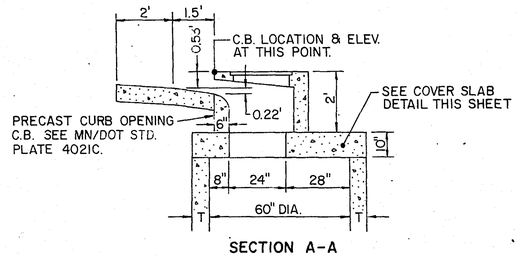
DIMEN.	MANHOLE TYPE					
	B	C	D	E	F	G
P	48"	60"	72"	84"	96"	102"
K	6"	7"	8"	9"	9"	9"
T	6"	8"	8"	8"	8"	8"
W	58"	72"	86"	100"	113"	119"
A	9.5"	15.5"	21.5"	27.5"	34.5"	38"

NOTE:
DIMENSION "A" IN ABOVE CHART IS BASED ON A 27" DIAM. OPENING. INCREASE "A" BY 1.5" FOR 24" OPENING.



MANHOLE TYPE B THRU G





SECTION A-A

TYPE DS-5 CATCH BASIN

NO.	BY	DATE	REVISIONS	ITEM	DESIGN	CHECKED

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 5/14/90 Reg. No. 19046

ENGINEERS ■ ARCHITECTS ■ PLANNERS

RAMSEY CO., MINNESOTA

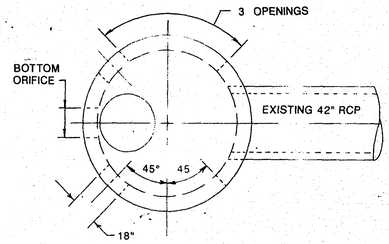
DETAILS

28-114

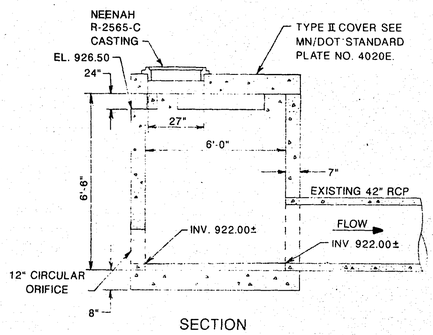
FILE NO. 89140
DATE 5/14/90
12 / 60

S.A.P. 62-652-07 & 62-652-08

BASE | OVERLAY | DRG. NO.

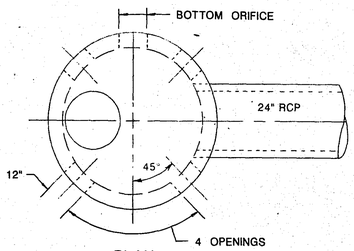


PLAN

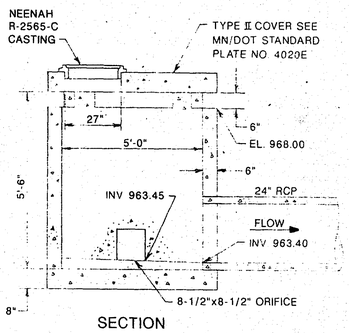


SECTION

SPECIAL STRUCTURE #2
(NOT TO SCALE)



PLAN



SECTION

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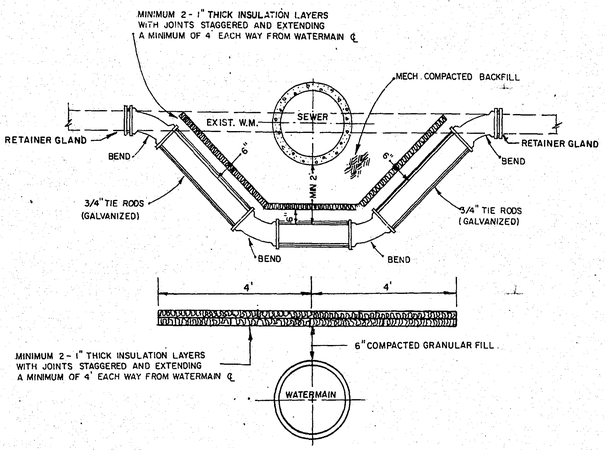
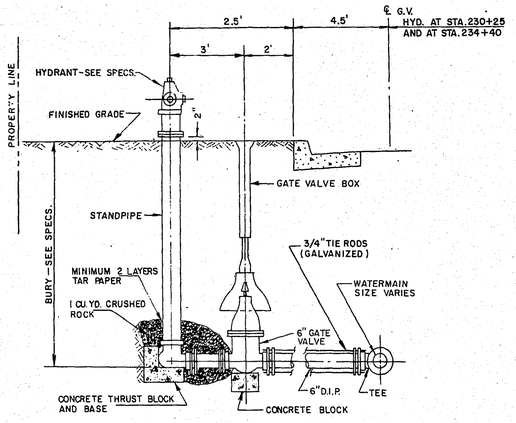
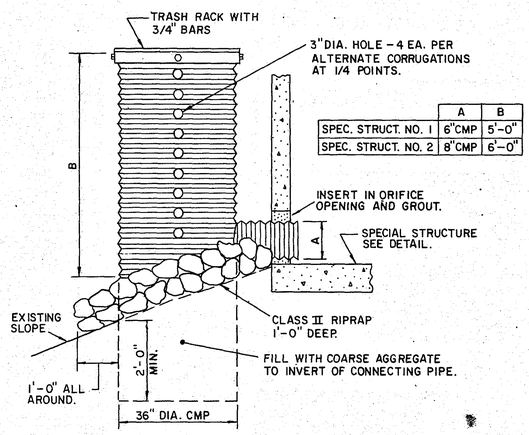


LOWER EXISTING WATERMAIN

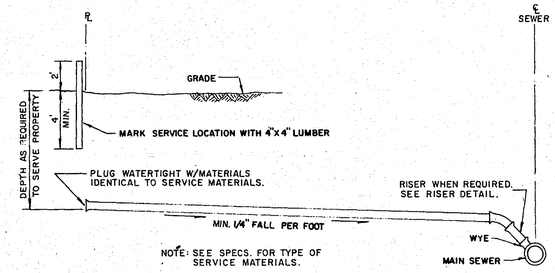


HYDRANT & GATE VALVE INSTALLATION

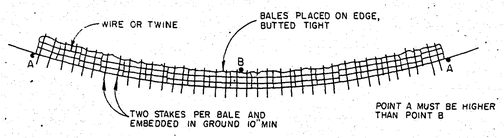


	A	B
SPEC. STRUCT. NO. 1	6"CMP	5'-0"
SPEC. STRUCT. NO. 2	8"CMP	6'-0"

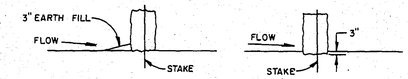
PERFORATED OUTLET DETAIL



SANITARY SEWER SERVICE

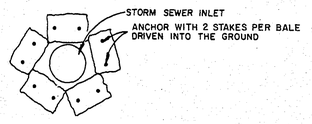


SECTION THRU DITCH



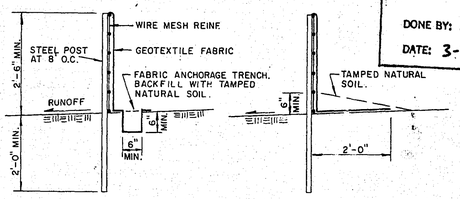
SECTIONS

HAY OR STRAW BALE DITCH CHECK



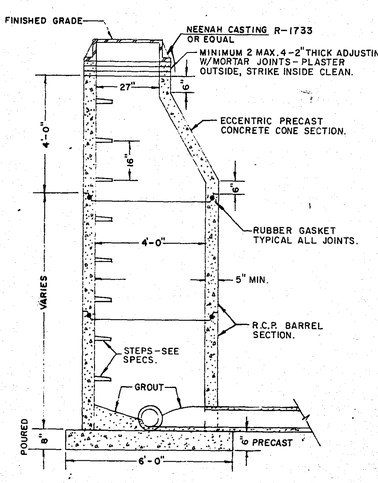
STORM SEWER INLET PROTECTION

EROSION CONTROL



SILT FENCE

ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: M.R.
DATE: 3-31-93

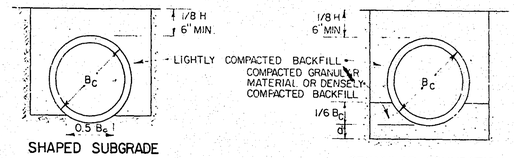


STANDARD SANITARY MANHOLE
(ECCENTRIC)

NOTES:
1. ALL DROP SECTIONS SHALL BE 8" DIAMETER UNLESS OTHERWISE NOTED.
2. CONSTRUCT OPENING IN M.H. WALL FOR DROP SECTION PIPING. SEAL EXCESS OPENING WITH NON-SHRINK GROUT.
3. CONSTRUCT INVERT IN EXISTING MANHOLE FLOOR.

OUTSIDE DROP STRUCTURE FOR EXISTING MANHOLE

CLASS C
f_c = 15



SHAPED SUBGRADE

GRANULAR FOUNDATION

L E G E N D

B_c = OUTSIDE DIAMETER
H = BACKFILL COVER OVER TOP OF PIPE
D = INSIDE DIAMETER
d = DEPTH OF BEDDING MATERIAL BELOW PIPE
A_s = AREA OF TRAVERSE STEEL IN THE CRADLE OR ARCH EXPRESSED AS A PERCENTAGE OF AREA OF CONCRETE AT INVERT OR CROWN

DEPTH OF BEDDING MATERIAL BELOW PIPE	
D	d MIN
27" & SMALLER	3"
30" TO 60"	4"
66" & LARGER	6"

TRENCH BEDDING - CIRCULAR PIPE

NO.	BY	DATE	REVISIONS

ITEM | DESIGN | CHECKED

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 5/14/90 Reg No. 9046

ENGINEERS ■ ARCHITECTS ■ PLANNERS

RAMSEY CO., MINNESOTA

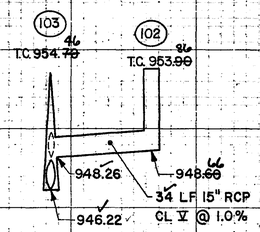
DETAILS

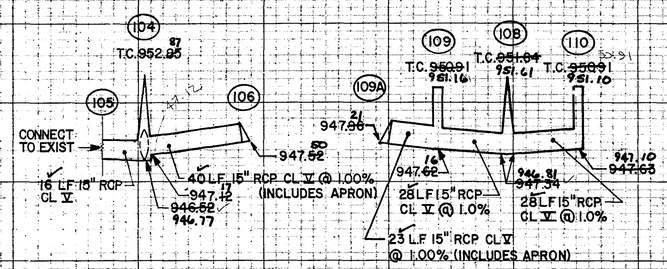
28-114

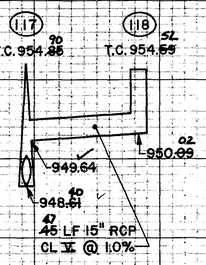
FILE NO. 89140
DATE 5/14/90
13 / 60

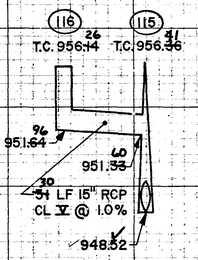
S.A.P. 62-652-07 & 62-652-08

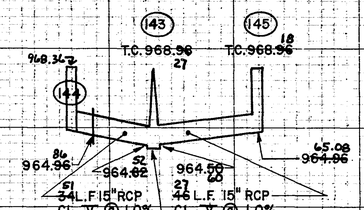
BASE | OVERLAY | ORG. NO.

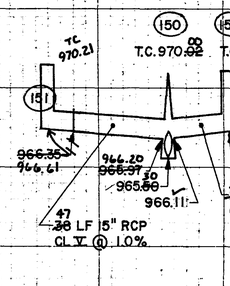


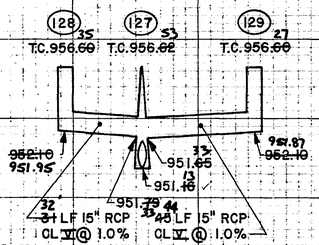


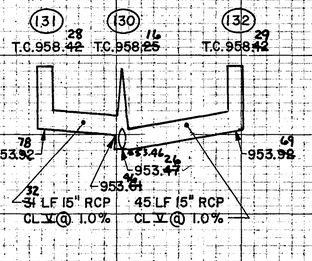


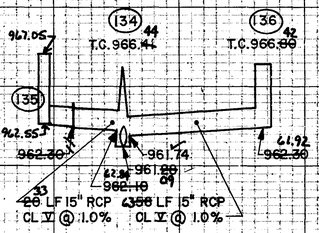


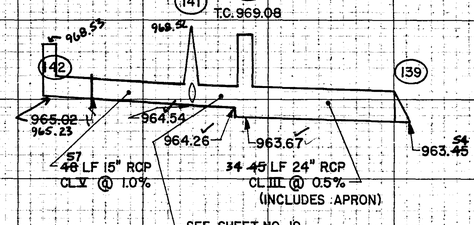


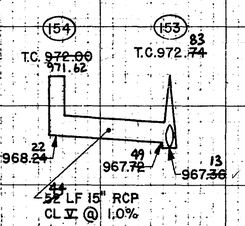


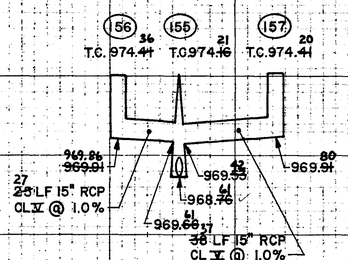


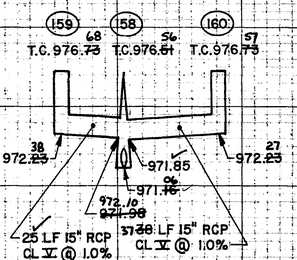


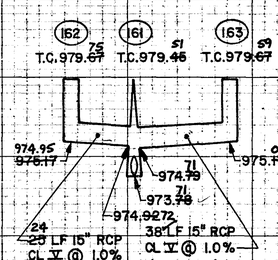


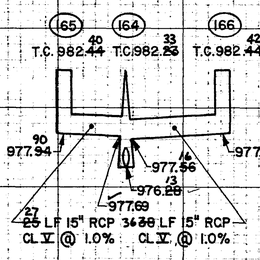


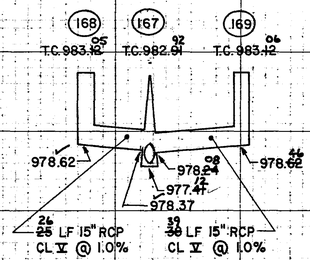


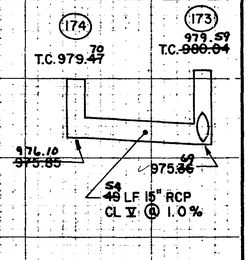












ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: MR
DATE: 2-17-93

NO.	BY	DATE	REVISIONS

ITEM	DESIGN	CHECKED

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 5/14/90 Reg No. 9046

ENGINEERS ■ ARCHITECTS ■ PLANNERS

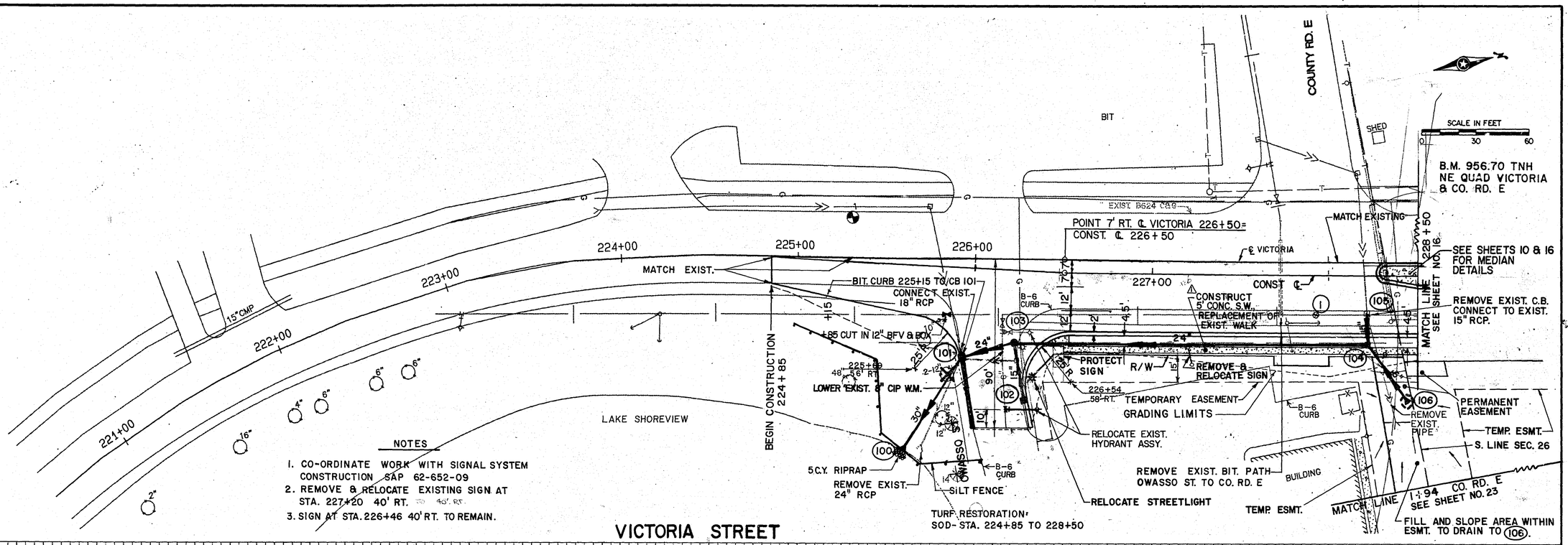
RAMSEY CO. MINNESOTA
VICTORIA STREET

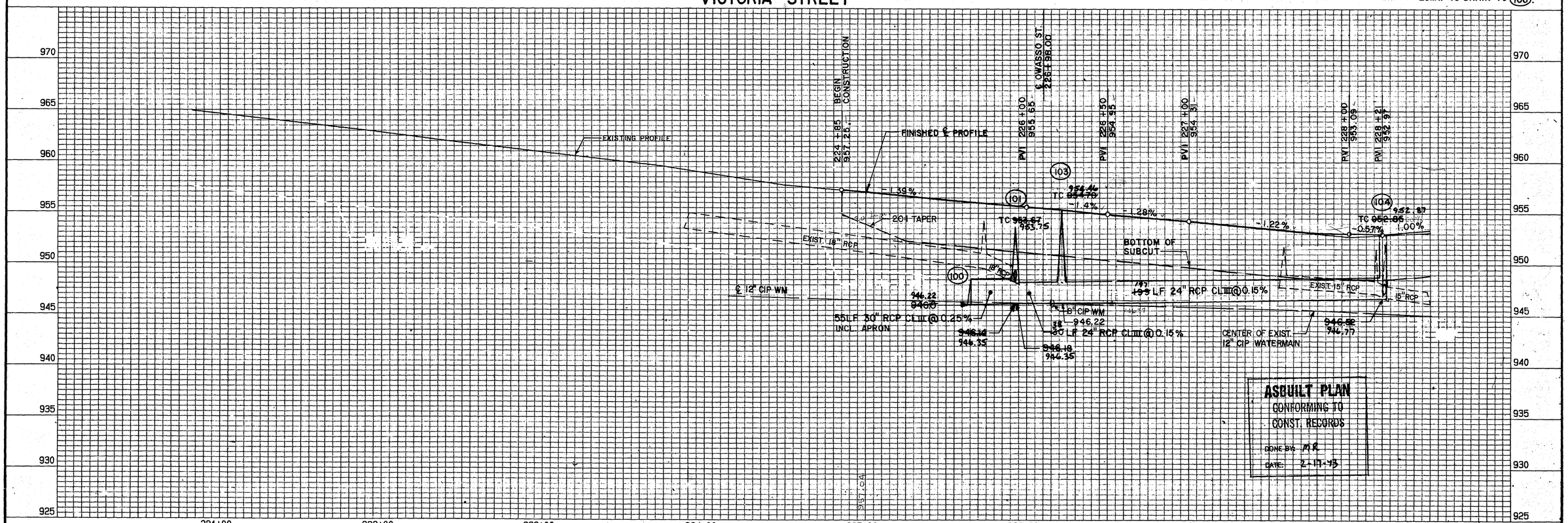
STORM SEWER PROFILES
28-114

FILE NO. 89140
DATE 5/14/90
14 / 60

S.A.P. 62-652-07 & S.A.P. 62-652-08

BASE | OVERLAY | DRG. NO.





NO.	BY	DATE	REVISIONS
2	TLL	12-90	ADDED MEDIAN AT RR TRACKS
⚠	JMP	5-30-90	UPDATE WALK NOTE

ITEM | DESIGN | CHECKED

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 5/14/90 Lic. No. 9046

SEH ENGINEERS ■ ARCHITECTS ■ PLANNERS

RAMSEY CO. MINNESOTA
VICTORIA STREET

PLAN & PROFILE
28-114

FILE NO. 89140
DATE 5/14/90
15/60

S.A.P. 62-652-07

BASE | OVERLAY | DRG NO.

NOTE: SEE SPECS FOR RAILROAD TRACK CROSSING CONST.

229+16.35
66.47' LT.
D=21°25'22"
ARC=17.78'
℄ RAD=47.55'

CONNECT TO EXIST. STORM SEWER

229+29.08
53' LT

MATCH EXIST.

CITY OF SHOREVIEW

FIRE STATION

229+95.23
53' LT

SAW CUT

GRADING LIMITS

Stub 25' 6" PVC @ 0.5%

REMOVE EXIST. BIT. TO 55' LT. ABANDON DRWY.

EXIST. TRAIL ENDS AT DRIVEWAY.

REPLACE EXIST. TRAIL

RAMSEY COUNTY
ISLAND LAKE PARK

SCALE IN FEET
0 30 60

MATCH EXIST. BIT.

SEE SHEET NO. 15

MATCH LINE 228+50

B624 C&G

SEE MEDIAN DETAIL

Pl. 231+19

21" RCP

℄ VICTORIA

CONST. ℄

LOWER W.M.

12" D.I.P.

SEE SHEET NO. 17

MATCH LINE 236+00

EXISTING R.R. SIGNALS TO BE REMOVED BY OTHERS.

CONSTRUCT 5' CONC. S.W., REPLACEMENT OF EXIST. WALK.

PERMANENT EASEMENT

S. LINE SECTION 26

DRAINAGE EASEMENT SEE SHEET NO. 15.

229+03
68' RT

TEMP. ESMT.

COUNTY RD. E

MATCH LINE 1+94

SEE SHEET NO. 23

REMOVE EXIST. BIT. TO R/W. ABANDON DRWY.

RELOCATE EXIST. HYDRANT ASSY.
230+31
63' RT

CONSTRUCT 5' CONC. SIDEWALK

TEMPORARY EASEMENT

+85 CUT IN 12" B.F.V. & BOX

GRADING LIMITS

RELOCATE EXIST. HYDRANT ASSY.
234+38.6
73' RT.

EASEMENT

SILT FENCE
235+56
81' RT

MATCH EXISTING
98.5' RT.

DELUXE CORPORATION

DELUXE CORP. 50' DR.

11/2" MN/DOT 2341 WEAR
11/2" MN/DOT 2331 BASE
6" MN/DOT 2211 CL.6 AGG. BASE

B.M. 962.26 TNH
4TH HYD. S. OF
I-694 ON VICTORIA

NOTE:
1 - VERIFY WATERMAIN LOCATION. (SEE SPECS)
2 - CO-ORDINATE WORK WITH SIGNAL SYSTEM CONSTRUCTION S.A.P.#62-652-09, 229+51.75 VICTORIA = 1+01.06 CO. RD. E

BULKHEAD

TRACKAGE REMOVED

SEE SHEET NO. 26

TURF RESTORATION:
STA. 228+50 TO 236+00
W. SIDE - SOD
E. SIDE - SOD TEMP. EASEMENT

VICTORIA STREET

MEDIAN DETAIL AT RAILROAD X-ING

228+33
1' LT.

SEE SHEET 10 FOR ADDITIONAL MEDIAN DETAILS

FUTURE RR SIGNALS TO BE PLACED BY OTHERS

B624 C&G

229+08
1' RT.

234+87.55
35' RT.

RADII = 2'

235+03.24
35' RT.

234+94.83
47' RT.

MEDIAN DETAIL
SEE SHEET 10 FOR ADDITIONAL DETAILS

400' V.C.
M=1.65
T.C. 958.72

6-7½° SHORT RADIUS BENDS
Pl. 232+66.70' LT. Δ=45°

FINISHED ℄ PROFILE

6-7½° SHORT RADIUS BENDS
Pl. 232+38.70' LT. Δ=45°

EXISTING PROFILE

120' V.C.
M=0.43

Pl 228+55.00 953.31
Pl 228+65.00 953.31
Pl 228+80.00 953.31
Pl 228+85.00 953.29
PVC 229+00.00 953.15
Pl 229+60.00 952.92
PVC 230+20.00 954.41
PVC 230+67.10 955.59
Pl 232+67.10 960.59
PVT 234+67.10 958.99

T.C. 953.00
T.C. 953.03
T.C. 954.85 954.90
T.C. 956.38 956.41
T.C. 950.17 959.13
T.C. 957.02 957.75

0.0% -1.0% -0.4% 2.5% -0.8%

EXISTING 18" RCP

EXISTING 15" RCP

112 LF 21" RCP CL III @ 0.15%

32 LF 15" RCP CL V @ 0.40%

63 LF 21" RCP CL III @ 0.15%

153 LF 21" RCP CL III @ 0.15% (INC. 6 BENDS)

155.74 LF 21" RCP CL III @ 0.5% (INC. 6 BENDS)

180 LF 21" RCP CL III @ 0.5%

16" PCCP W.M.

6" D.I.P. W.M.

EXISTING 8" VCP

CENTER OF EXISTING 12" D.I.P. W.M.

BOTTOM OF SUBCUT

℄ NEW 12" DIP W.M.

REPLACE EXISTING 12" W.M.

ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: MR
DATE: 2-17-93

228+00 229+00 230+00 231+00 232+00 233+00 234+00 235+00 236+00

NO.	BY	DATE	REVISIONS
2	TLL	12/12/90	ADDED CONCRETE MEDIAN AT RR TRACKS
1	JMP	5-30-90	ADDED WALK NOTE

ITEM | DESIGN | CHECKED

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 5/14/90 Reg No. 9046

ENGINEERS ■ ARCHITECTS ■ PLANNERS

RAMSEY CO. MINNESOTA
VICTORIA STREET

PLAN & PROFILE
28-114

FILE NO. 89140
DATE 5/14/90
16/60

S.A.P. 62-652-07

BASE | OVERLAY | DRG NO

2" MN/DOT 2341 WEARING COURSE
6" MN/DOT 2211 AGG. BASE CL.6

P.I. 238+34
127' LT. Δ=9°RT

15:1 TAPER

END C&G 238+34.6 113' LT.

CONSTRUCT 8' BITUMINOUS TRAIL

PROTECT TREES

238+34.6 73' LT.

239+04.67 92' LT.

239+04.67 38' LT.

239+04.67 38 RT.

238+34.87 73' RT.

CONSTRUCT 5' CONC. SIDEWALK

TEMPORARY EASEMENT

P.I. 239+64 127' LT. Δ=11°LT

END C&G 239+74.6 113' LT.

239+74.8 73' LT.

RAMSEY COUNTY ISLAND LAKE PARK

GRADING LIMITS

SILT FENCE

PAVE TO 33' LT. OF ℄

PAVEMENT FOLLOWS EXIST. ROAD EDGE.

FUTURE CB, PLUG PIPE

MATCH EXIST. BIT. PVM'T. SEE TYP. SECTION FOR LOCATION.

+20 END C&G AND TRAIL

POINT 7' RT. CONST. ℄ 241+04.6 = N.B. TEMP CONN. 241+04.6

℄ VICTORIA

CONST. ℄

239+74.38 73' RT. DELUXE CORPORATION

END CONC. CURB & BEGIN BIT. CURB

RELOCATE EXIST. HYDRANT & VALVE

15:1 TEMP. BIT. CURB

SEE NOTE 1.

SEE SHEET NO. 16 MATCH LINE 236+00

MATCH LINE SEE SHEET NO. 18 244+00

SCALE IN FEET 0 30 60

NOTES:
1. BITUMINOUS COURSES AND CONCRETE CURB & GUTTER TO BE INSTALLED BEHIND BITUMINOUS CURB IN THE FUTURE. INSTALL COMMON EXCAVATION, TOPSOIL AND SOD OVER GRANULAR BORROW. GRADE TO DRAIN.

11/2" MN/DOT 2341 WEAR
11/2" MN/DOT 2331 BASE
6" MN/DOT 2211 CL.6 AGG. BASE

LEGEND
■ CONCRETE HANDHOLES WITH TYPE "C" COVERS
==== 4" PIGID STEEL CONDUIT
FACILITIES TO BE INSTALLED ON THIS CONTRACT FOR FUTURE SIGNAL SYSTEM.

TURF RESTORATION:
STA. 236+00 TO 244+00
W. SIDE – SOD
E. SIDE – SOD TEMP. EASEMENT

B.M. 965.30 TNH
2ND HYD. SO. OF I-694 ON VICTORIA

VICTORIA STREET

PARK ROAD PROFILE 950

FINISHED GRADE
EXISTING GRADE

PVC 237+00 956.45
PI 237+25 954.58
PVT 237+50 954.80
PI 239+09.46 LT 125' 956.20
PVC 239+95 955.85
PI 240+20 955.75
PVT 240+45 957.15

50' V.C. M=0.52
50' V.C. M=0.38
300' V.C. M=1.13

-7.49%
+0.88%
-0.41%
+5.61%

FINISHED ℄ PROFILE
EXISTING PROFILE

PVC 237+11.15 957.03
PI 238+61.15 955.83
PVT 240+11.15 958.14

T.C. 957.82
T.C. 956.60 956.53
T.C. 950.25 958.16
T.C. 960.98 960.85
T.C. 966.44 966.44

-0.8%
2.2%

176 LF 21" RCP CL III @ 0.5%
190 191 LF 15" RCP CL IV @ 1.0%
252 LF 15" RCP CL III @ 1.8%
152 268 LF 15" RCP CL II @ 2.0%

950.26 950.05 S 950.15 W
957.13 956.18
961.23 961.56
953.24 953.47
953.34 953.62
956.90 956.72
961.09 961.28

℄ NEW 12" D.I.P. W.M.
CENTER OF EXISTING 12" C.I.P. W.M.
BOTTOM OF SUBCUT
REPLACE EXIST. 12" W.M.

957.93 957.13 956.72 957.31 958.90 961.09 963.29 965.49 967.69

ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: MR
DATE: 2-17-93

NO.	B.	DATE	REVISIONS	ITEM	DESIGN	CHECKED
2		6-27-90	ADDED NOTE #1			
1		6-27-90	REVISED CURB NOTE, DASHED FUTURE CURB			

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 5/14/90 Reg No. 9046

ENGINEERS ■ ARCHITECTS ■ PLANNERS

RAMSEY CO. MINNESOTA
VICTORIA STREET

PLAN & PROFILE
28-114

FILE NO. 89140
DATE 5/14/90
17/60

S.A.P. 62-652-07

BASE | OVERLAY | DRG. NO.

MILL AND OVERLAY EXIST. ROAD TO MATCH NEW ROAD GRADE

REMOVE EXIST. BIT. FROM VICTORIA ST. WESTERLY TO COUNTY PARK ROAD ABANDON ROAD

MATCH EXIST. BIT. PAVEMENT. SEE TYPICAL SECT. FOR LOCATION.

RELOCATE EXIST. HYDRANT ASSY. ROTATE EXIST. FIRE 180°

LIMIT OF MILL & OVERLAY

℄ VICTORIA

TEMPORARY WIDENING

+55 I-694 EXIT RAMP

18' BIT.

12' CMP

250

SCALE IN FEET 0 30 60

SEE SHEET NO. 17 MATCH LINE 244+00

245

245+00

246+00

247+00

248+00

249+00

250+00

251+00

MATCH LINE 252+00 SEE SHEET NO. 19

FUTURE BRIDGE OVER I-694

TEMP. BIT. CURB

15" CMP

℄ CONST.

24' GR. ABANDON

24' GR. +07 ABANDON

END PAVEMENT 246+60

50'R

246+92 4' RT.

END BIT. CURB

SECTION FOR TEMPORARY WIDENING
1" MN/DOT 2361 WEAR
2" MN/DOT 2331 BINDER
4" MN/DOT 2331 BASE
6" MN/DOT 2211 CL.6 AGG. BASE

℄ S.B. I-694

℄ N.B. I-694

SEE NOTE 2.

R/W

GRADING LIMITS

TEMPORARY EASEMENT

DELUXE CORPORATION

REMOVE 82' CHAIN LINK FENCE

SILT FENCE

BALE CHECK

+55 I-694 ENTRANCE RAMP

18' BIT.

VICTORIA STREET

NOTES:

1. REMOVE EXIST. CULVERT.

2. BITUMINOUS COURSES AND CONCRETE CURB & GUTTER TO BE INSTALLED BEHIND BITUMINOUS CURB IN THE FUTURE. INSTALL COMMON EXCAVATION, TOPSOIL AND SOD OVER GRANULAR BORROW. GRADE TO DRAIN.

TURF RESTORATION:
STA. 244+00 I-694
W. SIDE- SOD
SEED ABANDONED CO. PARK ROAD
E. SIDE- SOD TEMP. EASEMENT

B.M. 976.10 DISC #6285-K
SE COR. BRIDGE I-694 & VICTORIA

990 985 980 975 970 965 960 955 950 945

967.69 969.89 972.09 974.29 976.13 977.11 977.27 977.20 976.42 975.11

244+00 245+00 246+00 247+00 248+00 249+00 250+00 251+00 252+00

FINISHED ℄ PROFILE

EXIST. PROFILE

+2.2%

END CONST. 246+60 SAP 62-652-07

PVC 247+10 974.51

3:1 SLOPE

CENTER OF EXISTING 12" C.I.P. W.M.

BOTTOM OF SUBCUT

400' V.C. M=1.76

PVT 249+10 978.91

PROPOSED FUTURE GRADE

PVT 251+10 976.29

-1.31%

ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: MR
DATE: 2-17-93

NO.	BY	DATE	REVISIONS
⚠	CFBM	8-27-90	ADDED NOTE #2- DASHED FUTURE CURB
⚠	JMP	5-30-90	ADDED MILL & OVERLAY NOTE

ITEM | DESIGN | CHECKED

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Date 5/14/90 Reg No. 9046

ENGINEERS ■ ARCHITECTS ■ PLANNERS

RAMSEY CO. MINNESOTA
VICTORIA STREET

PLAN & PROFILE

28-114

FILE NO. 89140
DATE 5/14/90
18 / 60

S.A.P 62-652-07

BASE | OVERLAY | DRG. NO.

RAMSEY COUNTY

ISLAND LAKE

THOMAS J. DeLISLE AND CAROL A. DeLISLE

MARK ARNOLD HOUSE 1st. FL. 65.16

SCALE IN FEET 0 30 60

TEMPORARY EASEMENT

F 8I 4" PVC SERVICE TO PROPERTY LINE.

GRADING LIMITS PROTECT CB & STORM SEWER

8" PVC

MILL AND OVERLAY EXIST. ROAD TO MATCH NEW ROAD GRADE.

SILT FENCE

FUTURE CB, PLUG PIPE

R/W

16" RCP

24" CMP

BEGIN BIT. CURB +55

LIMIT OF MILL & OVERLAY

SALVAGE HYD. ASSEMBLY

MATCH EXIST. BIT. PAVEMENT SEE TYP SECTION FOR LOCATION

SEE NOTE 6.

TEMP. BIT. CURB

CONST. ℄

BEGIN CONSTRUCTION 255+55

15" RCP

OUTLET STRUCTURE

24" RCP

21" RCP

B612 CURB

18" RCP

RELOCATE SIGN

RELOCATE LIGHT

SEE NOTE 5

259+33 38' RT

50' R

END B624 TAPER TO MATCH EXIST. B612

260+07 76' RT.

MATCH LINE 260+00 SEE SHEET NO. 20

SEE SHEET NO. 18 MATCH LINE 252+00

I-694 ENTRANCE RAMP

I-694 EXIT RAMP

REMOVE & REINSTALL CHAIN LINK FENCE.

CONTRACTOR TO SAVE TREES AS MARKED.

TURF RESTORATION SOD - I-694 TO STA. 260+00

WATER

4 C.Y. RIP-RAP

POND

SEE NOTE 4.

DITCH

PROTECT SIGN

POND EASEMENT

GRADING LIMITS

MICRO COMPONENT TECHNOLOGY INC.

MATCH BIT. CURB

TEMPORARY EASEMENT

B612 CURB

258+41 68' RT.

258+45 87' RT

258+61 72' RT.

MATCH EXIST. B612

RELOCATE LIGHTS

CONST. B612 CURB

WIDEN DRWY 1 1/2" MN/DOT 2341 WEAR 1 1/2" MN/DOT 2331 BASE 6" MN/DOT CL.6 AGG. BASE

SAWCUT BIT.

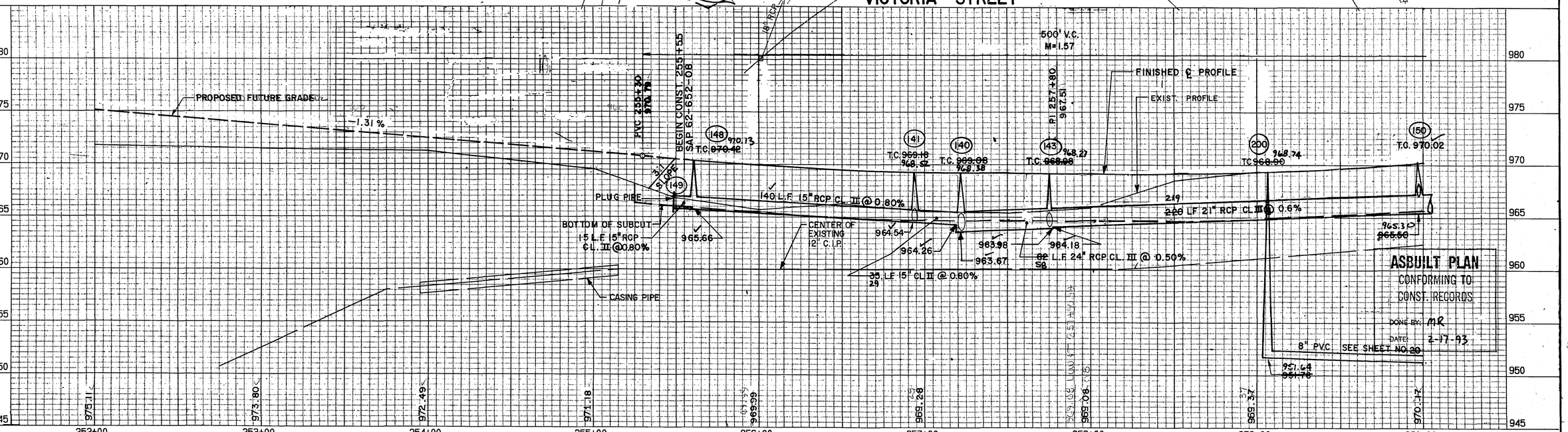
B.M. 969.71 TNH IST HYD. NO. OF I-694 ON E. SIDE VICTORIA

SEE SHEET NO. 27

VICTORIA STREET

NOTES

1. GRADE 3:1 SLOPES AROUND POND.
2. REMOVE & REPLACE EXISTING SPRINKLER SYSTEM IN POND AREA. SEE SPECIFICATIONS.
3. REMOVE EXISTING CULVERTS. SEE SCHEDULE.
4. REMOVE EXISTING 18" APRON & ONE SECTION OF PIPE ON SOUTH SIDE OF POND. REPLACE APRON.
5. REMOVE EXISTING CURB. CONSTRUCT B612 CURB TO MATCH EXISTING. REPLACE LANDSCAPE ROCK TO MATCH EXISTING.
6. BITUMINOUS COURSES AND CONCRETE CURB & GUTTER TO BE INSTALLED BEHIND BITUMINOUS CURB IN THE FUTURE. INSTALL COMMON EXCAVATION, TOPSOIL AND SOD OVER GRANULAR BORROW. GRADE TO DRAIN.



NO.	BY	DATE	REVISIONS
3	CFBM	8-27-90	ADDED NOTE #6 - DASHED FUTURE CURB
2	JMP	6-8-90	ADDED WATER SERVICES
1	JMP	5-30-90	ADDED MILL & OVERLAY NOTE

ITEM | DESIGN | CHECKED

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Date 5/14/90 Reg No. 9046

ENGINEERS ■ ARCHITECTS ■ PLANNERS

RAMSEY CO. MINNESOTA
VICTORIA STREET

PLAN & PROFILE

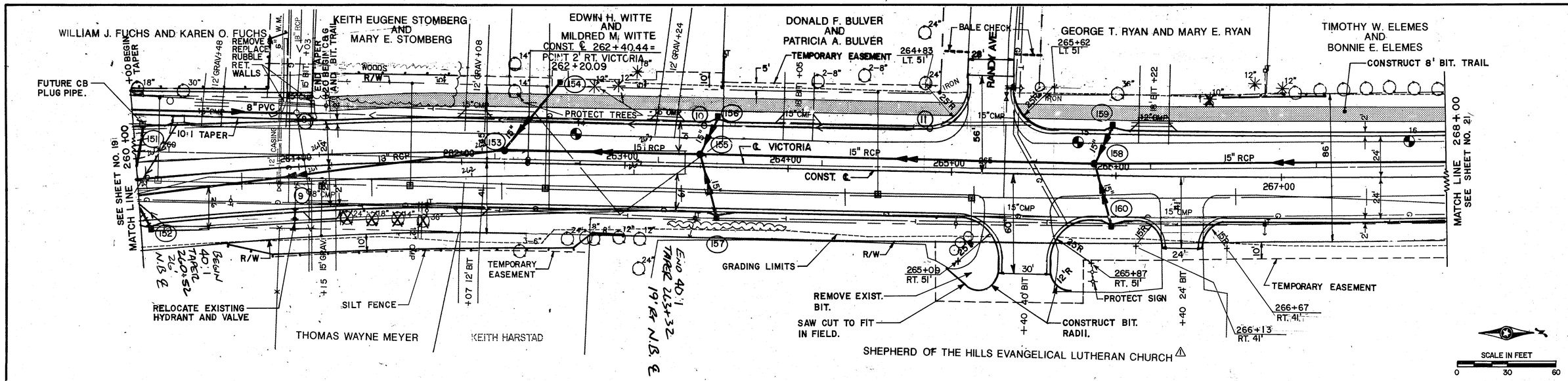
28-114

FILE NO. 89140 | 19

DATE 5/14/90 | 60

S.A.P. 62-652-08

BASE | OVERLAY | ORIG. NO.



NOTE:

1 – REMOVE EXISTING CULVERTS

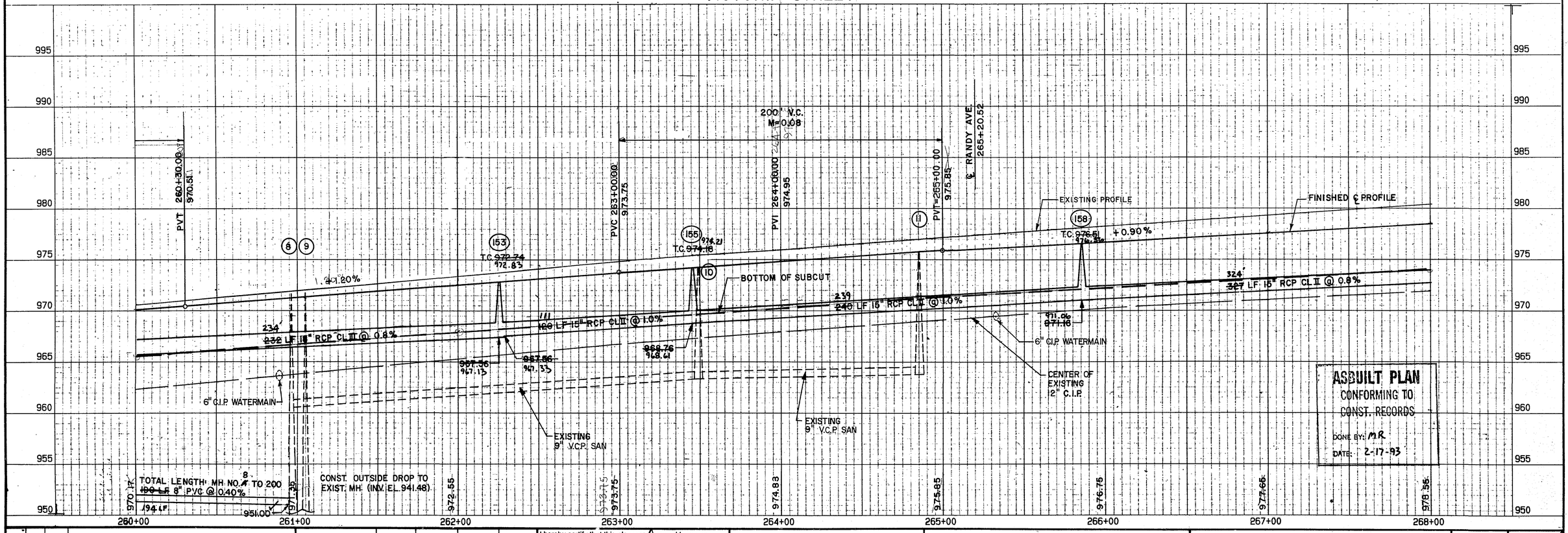
2 – VERIFY WATERMAIN LOCATION (SEE SPECS)

3 – ▦ = 4'x4' INSULATION ⚠

TURF RESTORATION:
SOD-STA. 260+00 TO 268+00

B.M. 978.68 TNH
NW CORNER RANDY & VICTORIA

VICTORIA STREET



ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: MR
DATE: 2-17-93

NO.	BY	DATE	REVISIONS
⚠	JMP	6-8-90	ADDED WATER SERVICES, ADDED INSULATION NOTE
⚠	JMP	6-6-90	DRIVES AT CHURCH: 28' to 30', ADDED 24' DRIVEWAY

ITEM | DESIGN | CHECKED

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Date 5/14/90 Reg. No. 9046

ENGINEERS ■ ARCHITECTS ■ PLANNERS

RAMSEY CO. MINNESOTA
VICTORIA STREET

PLAN & PROFILE
28-114

FILE NO. 89140
DATE 5/14/90
20 / 60

S.A.P. 62-652-08

B\SE OVERLAY | DRG. NO.

VICTOR P. SCHLEISS AND LINDA M. SCHLEISS

ROY EDWARD KRAMER AND RAMONA N. KRAMER

DOUGLAS D. STANKEY AND JANICE R. STANKEY

ROGER BIDNEY AND CLARICE A. BIDNEY

JEFFERY A. KURKOWSKI AND SANDRA J. KURKOWSKI

LeROY A. HILLS AND JEAN M. HILLS

PHILIP C. FLATEN AND MARY E. FLATEN

COMMUNITY IN CHRIST LUTHERAN CHURCH

W.F. BAUER CONSTRUCTION CO.

GRAMSIE RD.

CRYSTAL AVE.

VALLEY VIEW COURT

SEE SHEET NO. 20 MATCH LINE 268+00

MATCH LINE 276+00 SEE SHEET NO. 22

268+26 51' LT.

269+07 51' LT.

275+66 51' LT.

275+85 51' LT.

268+10 56' RT

269+10 56' RT

274+75 51' RT

275+69 51' RT

BALE CHECK

RELOCATE EXIST. HYDRANT ASSEMBLY

TRANSPLANT 10 TREES

REMOVE & RELOCATE CHAIN LINK FENCE WEST OF TREES

REMOVE 10 L.F. OF WALL

RUBBLE RET. WALL

TEMPORARY EASEMENT

PROTECT TREE

GRADING LIMITS

RELOCATE EXISTING HYDRANT ASSEMBLY

TRANSPLANT HEDGE

CONST. 20' APRON

CONSTRUCT 8' BIT. TRAIL

RELOCATE DRIVEWAY

TRANSITION B-624 C&G TO MATCH EXISTING D-418 C&G

CURB CUT @ +40

CURB CUT @ +47

CONST. ℄ P.T. 272+86.14 = POINT 2' RT. VICTORIA 272+65.4

REMOVE & RELOCATE SPLIT RAIL FENCE.

ABANDON DRWY REMOVE BIT. TO PROPERTY LINE

REMOVE SPLIT RAIL FENCE

EXTEND EXISTING CULVERT 18"

SILT FENCE

PROTECT SIGN

SCALE IN FEET 0 30 60

NOTE:
1 - VERIFY WATERMAIN LOCATION (SEE SPECS)
2 - ▦ = 4' x 4' INSULATION

TURF RESTORATION:
W. SIDE - SOD STA. 268+00 TO 276+00
E. SIDE - SOD STA. 268+00 TO 271+50
SEED STA. 271+50 TO 276+00
WOOD FIBER BLANKET ON 2:1 SLOPES, 271+50 TO 274+75

B.M. 987.79 TNH
NW CORNER CRYSTAL & VICTORIA

VICTORIA STREET

300' V.C.
M = 0.60

℄ GRAMSIE RD. 268+63.74

℄ CRYSTAL AVE. 275+21.00

PI 272+00.00 982.15

PVC 274+50.00 / 984.14

PI 276+00.00 985.35

TC 979.45 979.51 0.90%

TC 982.13 982.23 0.80%

CENTER OF EXISTING 12" C.I.P. W.M.

312 LF 15" RCP CL II @ 0.6%

973.71 973.76

976.13 976.26

CENTER OF EXISTING 6" P.C.C.P. W.M.

EXISTING PROFILE

FINISHED ℄ PROFILE

BOTTOM OF SUBCUT

6" CIP WM

8" CIP WM

8" C.I.P. WM WEST
12" C.I.P. WM EAST

EXISTING 9' V.C.P. SAN.

15" CMP

978.55 | 979.45 | 980.35 | 981.25 | 982.15 | 982.95 | 983.75 | 984.48 | 984.75

268+00 | 269+00 | 270+00 | 271+00 | 272+00 | 273+00 | 274+00 | 275+00 | 276+00

1000 | 995 | 990 | 985 | 980 | 975 | 970 | 965 | 960 | 955

ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: MR
DATE: 2-17-93

NO.	BY	DATE	REVISIONS
4	JMP	11-28-90	ELIMINATED RETAINING WALL 275+70 to 277+90
3	JMP	7-24-90	CHANGED TO CLEAR & GRUB TREES
2	JMP	6-8-90	ADDED WATER SERVICES, ADDED INSULATION & NOTE
1	JMP	6-6-90	REDUCED TEMP. EASEMENT FROM 35' to 25'

ITEM | DESIGN | CHECKED

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Date 5/14/90 Reg No. 9046

ENGINEERS ■ ARCHITECTS ■ PLANNERS

RAMSEY CO. MINNESOTA
VICTORIA STREET

PLAN & PROFILE
28-114

FILE NO. 89140
DATE 5/14/90
21 / 60

S.A.P. 62-652-08

BASE | OVERLAY | DRG. NO.

VICTORIA VILLAGE ATRIUM CONDOMINIUMS
CONDOMINIUM NO. 263

VICTORIA VILLAGE MANOR HOME CONDOMINIUM
CONDOMINIUM NO. 232

CONSTRUCT 8' BIT. TRAIL

GRADING LIMITS

SAVE TREES AS DIRECTED BY ENGINEER (3)

IRRIGATION SYSTEM IN THIS AREA (3)

TEMPORARY EASEMENT

REMOVE EXIST. BIT. TO PROP. LINE. ABANDON DRIVEWAY.

TRANSPLANT

RELOCATE EXIST. HYDRANT & ASSEMBLY

SEE SHEET NO. 21 MATCH LINE 276+00

SEE SHEET NO. 24 MATCH LINE 283+00

MATCH EXIST.

℄ VICTORIA

℄ CONST.

277+00 278+00 279+00 280+00 281+00 282+00 283+00

281+43.27 LT. 56'

282+48.50 LT. 51'

281+29.38 RT. 61'

282+38.43 RT. 56'

281+92.47 VICTORIA ST. = 4+97.09 COUNTY RD. F

WOODS

R/W

SILT FENCE

TEMPORARY EASEMENT (4)

IRON

DREW R. STOWASSER

BERTHA C. KARTH

AVONELLE HAGEN

REMOVE & RELOCATE SPLIT RAIL FENCE

DANIEL T. NADEAU AND PATRICIA J. NADEAU

BARTON C. VIRCKS AND EDNA J. VIRCKS

APRON WIDTHS TO BE DETERMINED IN THE FIELD (5)

COUNTY RD. F

TEMP. EASEMENT

CONTRACTOR TO VERIFY WATERMAIN LOCATION PRIOR TO STORM SEWER INSTALLATION

15" RCP

21" RCP

16" RCP

16" PCCP

12" CMP

12" RCP

14" RCP

END CURB BEG. TAPER

15:1 TAPER

END STREET CONST. STA. 283+70

END PROJECT STA. 285+21

SECTION FOR TAPER:
1" MN/DOT 2361 WEAR
2" MN/DOT 2331 BINDER
4" MN/DOT 2331 BASE
6" MN/DOT 2211 CL.6 AGG. BASE

SCALE IN FEET
0 30 60

B.M. 982.52 TNH
SW COR. CO. RD. F & VICTORIA

NOTE: REMOVE EXISTING CULVERTS
VERIFY WATERMAIN LOCATION (SEE SPECS)
▦ = 4' x 4' INSULATION (1)

TURF RESTORATION:
W. SIDE - SOD STA. 276+00 TO 276+70 & 278+75 TO 283+70
SEED STA. 276+70 TO 278+75
E. SIDE - SEED STA. 276+00 TO 277+80
SOD STA. 277+80 TO 283+70

VICTORIA STREET

300' V.C. M= 0.60

200' V.C. M= 0.56

PVI 276+00 984.34

PVT 277+60 984.14

PI 280+00 982.14

PVC 281+00 981.10

PI 282+00 980.06

PVT 283+00 981.26

℄ COUNTY RD. F 281+92.12

PI 283+25 981.56

PI 283+46 981.85

283+70 END STREET CONSTRUCTION 982.06

FINISHED ℄ PROFILE

EXISTING PROFILE

TC 982.91 982.92

TC 980.53 980.45

TC 980.82

TC 979.80 979.88

-0.80%

-1.04%

1.20%

1.38%

0.88%

BOTTOM OF SUBCUT

977.12 977.41

277 280 LF 15" RCP CL III @ 0.8%

90 LF 21" RCP CL. III @ 1.0%

975.05 976.17

974.42 974.02

975.05 976.32

975.58 975.25

975.48 976.09

57 LF 18" RCP CL V @ 1.0%

℄ 16" PCCP WM

9" VCP SAN

8" CI.P WM

15:1 TAPER

984.74 984.47 983.74 982.94 982.14 981.43 980.62 981.26

276+00 277+00 278+00 279+00 280+00 281+00 282+00 283+00

1000 995 990 985 980 975 970 965 960 955

ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: MR
DATE: 2-17-93

NO.	BY	DATE	REVISIONS
4	JMP	11-28-90	ELIMINATED RETAINING WALL 275+70 to 277+90, TEMP. EASEMENT TO 25'
3	JMP	11-27-90	ADDED NOTE ON CONDO IRRIGATION & DRIVEWAY APRON WIDTHS
2	JMP	7-24-90	ADDED TREE NOTE
1	JMP	6-8-90	ADDED WATER SERVICES, ADDED INSULATION & NOTE

ITEM | DESIGN | CHECKED

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 5/14/90 Reg No. 9046

ENGINEERS ■ ARCHITECTS ■ PLANNERS

RAMSEY CO. MINNESOTA
VICTORIA STREET

PLAN & PROFILE
28-114

F^m E NO. 89140
DATE 5/14/90
22 / 60

S.A.P. 62-652-08

BASE | OVERLAY | DRG. NO.

SEE SHEET NO. 26

GRADING LIMITS

VICTORIA STREET

SEE SHEET NO. 16 MATCH LINE 1+94

BULKHEAD

16" PCCP W.M.

18" RCP

+18 24" PCCP W.M.

12" BIT.

SILT FENCE

5+80 51' LT.

R/W

MATCH EXISTING B-612 C&G

SAWCUT EXIST. BIT. TO INSTALL B-612 C&G.

END B-612 C&G.

F&I 30 LF 15" CMP

F&I 60 LF 15" CMP

9" VCP

18" CMP

CO. RD. E

2+00 3+00 4+00 5+00 6+00 7+00

15" RCP

R/R TRACKS

15:1 TAPER

18" CMP

GRADING LIMITS

BULKHEAD

TEMPORARY EASEMENT

REMOVE RAILROAD TRACKS SEE SPECIFICATIONS

SILT FENCE

25' PERMANENT EASEMENT

5+60 BEG. TAPER BEG. BIT. CURB

6+50 END TAPER END CONST. END BIT. CURB

R.R. TRACKS

S. LINE SECTION 26

BULKHEAD

DRAINAGE EASEMENT SEE SHEET NO. 15.

VARIES

SWK.

EXISTING BUILDING

18" CMP

SCALE IN FEET 0 30 60

NOTE:

1 – REMOVE EXISTING CULVERT UNDER RR TRACKS

2 – CO-ORDINATE WORK WITH SIGNAL SYSTEM CONSTRUCTION S.A.P. # 62-652-09.

TURF RESTORATION:
SEED VICTORIA ST. TO STA. 6+50

B.M. 956.70 TNH
NE QUAD VICTORIA & CO. RD. E

COUNTY ROAD E

℄ VICTORIA STREET 1+01.06

140' V.C. M=0.44

PVC 1+36.00 952.75

PVT 2+76.00 951.70

-0.95% -2.1% -2.00%

+0.50%

EXIST. PROFILE

FINISHED ℄ PROFILE

END CONSTRUCTION 6+50

T.C. 951.64 951.61

T.C. 952.15 952.08

T.C. ~~953.52~~ 953.47

4.46

109 L.F. 15" RCP CL. II @ 0.50%

274 L.F. 15" RCP CL. II @ 0.50%

18 L.F. 15" RCP CL. II @ 0.50% STUB & PLUG

~~946.00~~ 946.58

~~946.00~~ 946.48

946.71 947.34

~~948.77~~ 948.17

947.37

20:1 TAPER

CENTER OF 12" C.I.P. WATERMAIN

12" CIP TO 16" PCCP INCREASER

CENTER OF 16" P.C.C.P. WATERMAIN

BOTTOM OF SUBCUT

EXIST. 9" VCP

P.I. 1+21 953.07

P.I. 1+33 952.81

P.I. 2+06 951.35

LOW PT. 2+48.00 951.63

953.26 952.48 951.83 951.63 951.82 952.07 952.32 952.57 952.82 953.07 953.32 953.57

970 965 960 955 950 945 940 935 930 925

0+00 1+00 2+00 3+00 4+00 5+00 6+00 7+00

ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: MR
DATES: 2-17-93

NO.	BY	DATE	REVISIONS
⚠	JMP	5-31-90	ADDED SILT FENCE NORTH OF CTY. RD. E

ITEM | DESIGN | CHECKED

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Date 5/14/90 Reg. No. 9046

ENGINEERS ■ ARCHITECTS ■ PLANNERS

RAMSEY CO. MINNESOTA
COUNTY ROAD E

PLAN & PROFILE
28-114

FILE NO. 89140
DATE 5/14/90
23/60

S.A.P. 62-652-07 Const

BASE | OVERLAY | DRG NO.

TEMPORARY EASEMENT
GRADING LIMITS
HOUSE
END TAPER
+90
+10 END CURB
BIT.
15" CONC.
END CURB BEGIN TAPER
+00
8" CIP
SECTION FOR TAPER:
1 " MN/DOT 2361 WEAR
2" MN/DOT 2331 BINDER
4" MN/DOT 2331 BASE
6" MN/DOT 2211 CL.6 AGG. BASE
SCALE IN FEET
0 15 30 60
R/W
14" BIT.
15" BIT.
+80
+54
+66
+81
+41
22
15:1 TAPER
174
173
170
175
MATCH EXISTING
MATCH EXIST.
1+00
2+00
3+00
4+00
5+00
6+00
7+00
8+00
10'
15"CMP
8" CIP
15" RCP
45'
41'
12'
26'
20'
15" RCP
48"
28"
30" BIT.
D-4 CURB
0+81 RT. 39'
1+41 RT. 39'
TRANSITION B-624 C&G TO MATCH EXIST. D-4 C&G
GRADING LIMITS
RELOCATE EXISTING HYDRANT ASSEMBLY
BEGIN STREET CONSTRUCTION STA. 0+16.25 BEGIN TAPER
0+81 END TAPER
SEE SHEET NO. 22 MATCH LINE STA.4+45
SEE SHEET NO. 22 MATCH LINE STA.5+60
END STREET CONSTRUCTION STA.6+76
SEE SHEET NO. 25 MATCH LINE STA. 6+76
VICTORIA VILLAGE MANOR HOME CONDOMINIUM CONDOMINIUM NO. 232
BARTON C. VIRCKS AND EDNA J. VIRCKS
VICTORIA ST.
280
12" RCP
16" RCP
2-10"
2-4"
2-3"6"
2-12"
2-18"
NOTE: REMOVE EXISTING CULVERTS
VERIFY WM LOCATION (SEE SPECS)
TURF RESTORATION:
SOD VICTORIA ST. TO 7+20
SEED 7+20 TO END OF DITCH
BM 982.52
TNH SW CORNER CO. RD. E & VICTORIA ST.

COUNTY ROAD F

995
990
985
980
975
970
965
960
955
950

0+00 0+50 1+00 1+50 2+00 2+50 3+00 3+50 4+00 4+50 5+00 5+50 6+00 6+50 7+00 7+50 8+00

P.I. 0+16.25 BEGIN CONSTRUCTION 980.06
PVC 0+45.00 980.61
80' V.C. M=0.11
P.I. 0+85.00 981.38
PVT 1+25.00 981.70
50' V.C. M=0.10
PVC 1+50.00 981.90
P.I. 1+75.00 982.10
PVT 2+00.00 981.89
FINISHED ℄ PROFILE
EXISTING PROFILE
1.92%
0.80%
-0.86%
PVC 4+00.00 980.47
40' V.C. M=0.07
P.I. 4+20.00 979.98
PVT 4+40.00 980.09
P.I. 4+78.00 980.28
P.I. 5+00.00 980.62
P.I. 5+12.00 980.44
P.I. 5+26.00 980.16
P.I. 5+50.00 979.44
0.50%
1.53%
1.50%
2.00%
3.00%
40 V.C. M=0.08
PVC 5+30.00 980.04
PVT 5+70.00 978.52
P.I. 6+76.00 973.60
TC 980.04 979.54
TC 980.53
TC 977.70
-4.62%
-4.69%
20+ TAPER
(SEE SHEET 25)
℄ 8" C.I.P. WM
9" V.C.P. SAN
BOTTOM OF SUBCUT
69' 79 LF 15" RCP CL III @ 1.0%
976.36 975.69
80 LF 21" RCP CL III @ 3.0%
974.33 974.88
974.42 974.65
972.02
16" PCCP WM
9" V.C.P. SAN
℄ 8" C.I.P. WM

ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: MR
DATE: 2-17-93

NO.	BY	DATE	REVISIONS
1	JMP	6-8-90	ADDED WATER SERVICES

ITEM | DESIGN | CHECKED

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Date 5/14/90 Reg. No. 9046

ENGINEERS ■ ARCHITECTS ■ PLANNERS

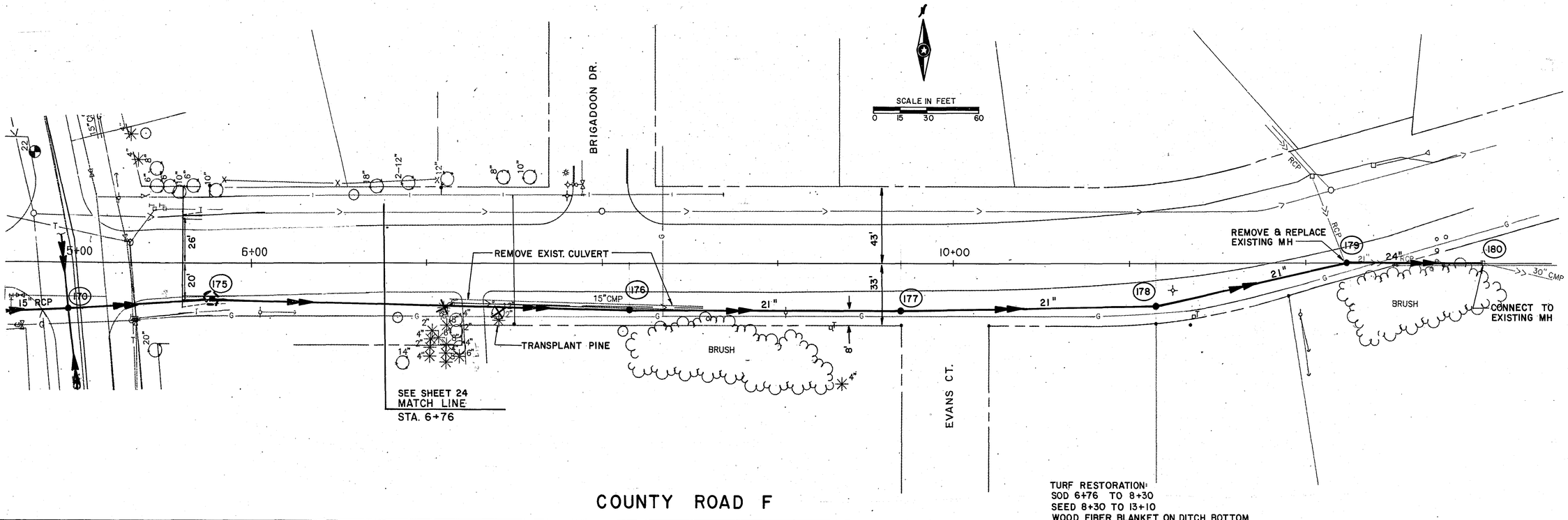
RAMSEY CO. MINNESOTA
COUNTY ROAD F

PLAN & PROFILE
29-114

FILE NO. 89140
DATE 5/14/90
24/60

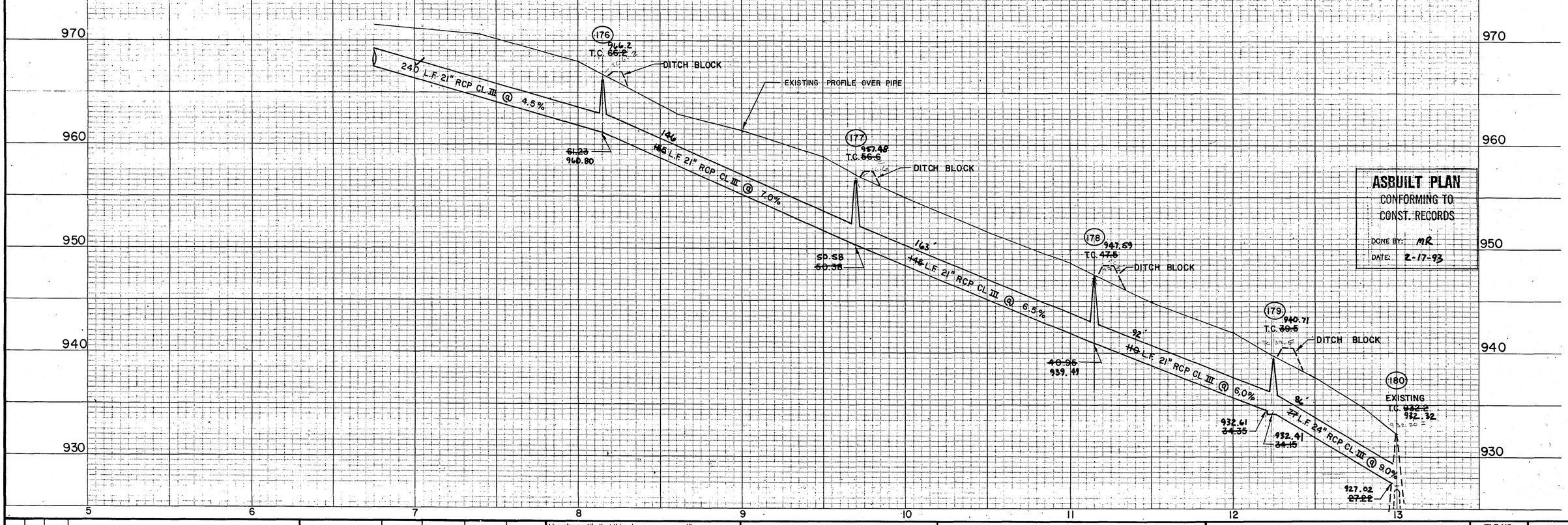
S.A.P 62-652-08

BASE | OVERLAY | DRG. NO.



COUNTY ROAD F

TURF RESTORATION:
SOD 6+76 TO 8+30
SEED 8+30 TO 13+10
WOOD FIBER BLANKET ON DITCH BOTTOM



ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: MR
DATE: 2-17-93

NO.	BY	DATE	REVISIONS
1	JMP	6-8-90	ADDED WATER SERVICES

ITEM	DESIGN	CHECKED

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Date 5/18/90 Reg No. 9046

ENGINEERS ■ ARCHITECTS ■ PLANNERS

RAMSEY CO., MINNESOTA
COUNTY ROAD F

PLAN & PROFILE
28-114

FILE NO. 89140
DATE 5/14/90
25/60

S.A.P. 62-652-08

BASE | OVERLAY | DRG NO.

SEE SHEET NO. 16

SCALE IN FEET
0 30 60

VICTORIA ST.

21" RCP 233+00

21" RCP 232+00

233+00

24" 30"

5' 10' 5'

21" RCP

9" VCP

REPLACE EXIST. MH

REMOVE EXIST. 18" RCP

27" RCP

REMOVE & REPLACE EXIST. FENCE.

TURF RESTORATION:
SEED MH 107 TO MH111
NONE MH 114 TO EXIST. 27" RCP

B.M. 956.70 TNH NE QUAD.
CO. RD. E & VICTORIA

WATER TANK

12' BIT.

REMOVE & REPLACE 30 L.F. OF EXIST. FENCE.

24" PCCP

18" RCP

16" PCCP

SEE SHEET NO. 23

CO. RD. E.

STORM SEWER EASEMENT

PROPOSED FUTURE GRADE

EXISTING 12" W.M.

947.67

EXISTING 8" SAN.

209
~~206~~ LF 21" RCP CL III @ 0.9%

EXISTING 8" SAN. VCP

~~945.29~~ S
~~945.82~~
~~945.39~~ W

94 LF 21" RCP CL III @ 1.00%

944.66
~~944.60~~

~~944.34~~
944.05

EXISTING 8" SAN.

210 LF 27" RCP CL III @ 0.37%

EXISTING 18" RCP

943.6± CONNECT TO EXIST.

EXISTING 27" RCP

NOTE: EXIST. 18" RCP & 27" RCP PRESENTLY ARE GROUTED TOGETHER.

T.C. ~~952.5~~ 951.79

T.C. ~~951.0~~ 950.75

T.C. ~~950.5~~ 951.69

T.C. 951.0±

112A ELIMINATED

949.0

~~948.24~~

36 L.F. 15" RCP CL II @ 2.0%

115
~~120~~ L.F. 18" RCP CL III @ 0.50%

~~946.48~~
~~946.00~~

EXIST. 18" RCP

~~945.73~~
~~946.00~~

944.7±

944.3±

EXIST. 9" VSP

EXIST. 16" RCP

POND

SCALE IN FEET
0 50 100 200

SHOREVIEW PARK AVE.

ADD SPECIAL OUTLET STRUCTURE NO. 2

SEE SHEET 13 FOR DETAIL.

10 C.Y. RIP-RAP

PROPOSED ROAD

KENT ST.

77'

EXIST. MH

MH 16

TURF RESTORATION:
SEED STRUCTURE 180 & MH 178 TO FES 179

~~939.23~~
~~TC 938.00~~

79
~~86~~ LF 48" RCP CL II @ 0.5% (INCL. APRON)

~~922.43~~
923.38

~~922.00~~
922.13

ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: MR
DATE: 2-17-93

970 965 960 955 950 945 940 935 930 925

950 945 940 935 930 925 920 915 910 905

NO.	BY	DATE	REVISIONS	ITEM	DESIGN	CHECKED

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Date 5/14/90 Reg No. 19046

SCH ENGINEERS ■ ARCHITECTS ■ PLANNERS

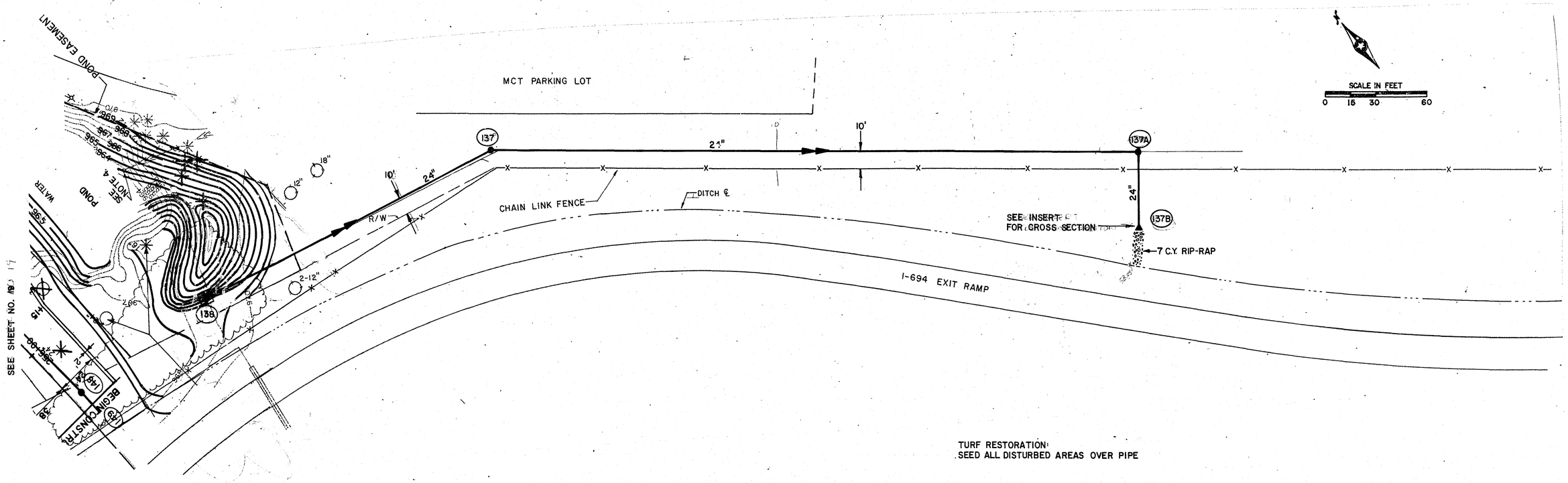
RAMSEY CO. MINNESOTA
VICTORIA STREET

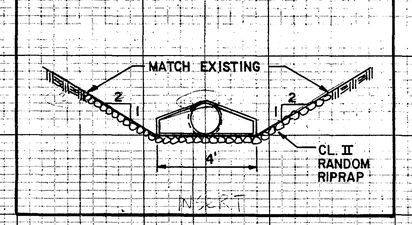
PLAN & PROFILE
28-114

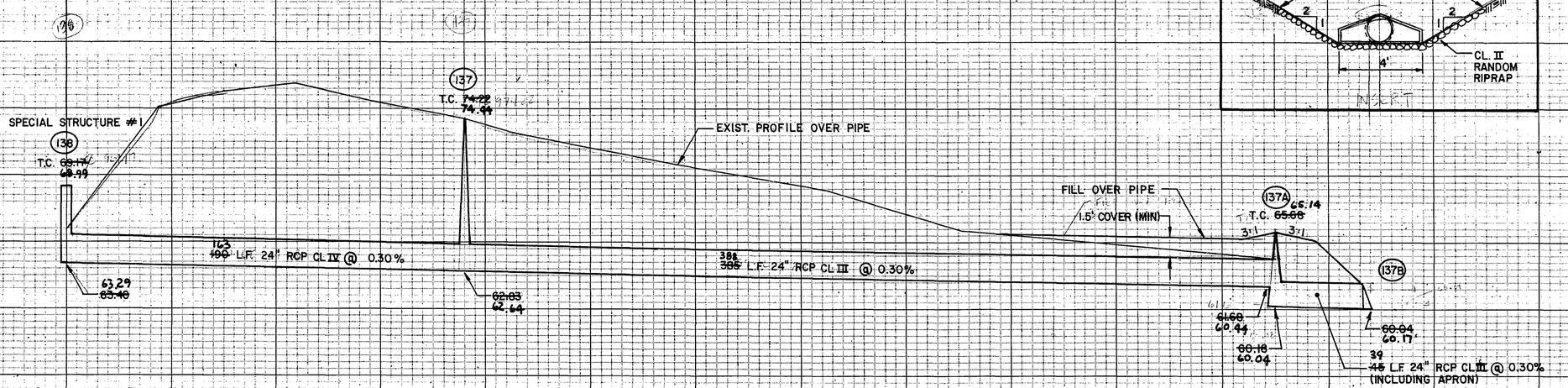
FILE NO. 89140
DATE 5/14/90
26 / 60

S.A.P. 62-652-07

BASE | OVERLAY | DRG NO.







ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: MR
DATE: 2-17-93

NO.	BY	DATE	REVISIONS	ITEM	DESIGN	CHECKED

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Date 5/14/90 Reg No. 9046

ENGINEERS ■ ARCHITECTS ■ PLANNERS

RAMSEY CO., MINNESOTA

PLAN & PROFILE

28-114

FILE NO. 89140
DATE 5/14/90
27 / 60

S.A.P. 62-652-08

NOTES:

1) POLE AND DETECTOR LOCATIONS SHALL BE VERIFIED IN THE FIELD BY THE ENGINEER PRIOR TO INSTALLATION.

2) SEE SPECIAL PROVISIONS FOR COUNTY FURNISHED EQUIPMENT.

3) A 3/4 INCH HALF COUPLING SHALL BE FURNISHED APPROXIMATELY 2 FEET AND 4 FEET FROM THE END OF MAST ARM ON EACH POLE PER Mn/DOT 3831.2C.

4) A MID ARM MOUNT SHALL BE FURNISHED AND INSTALLED APPROXIMATELY 12 FEET FROM THE END OF THE MAST ARM AT POLES (1) AND (5)

5) ALL PEDESTRIAN INDICATIONS SHALL BE 12"x12"

6) ALL SIGNAL FACES SHALL HAVE BACKGROUND SHIELDS EXCEPT SIGNAL FACES 2-3, 3-3, 4-3, 4-6 AND 6-7.

7) EACH LUMINAIRE WITH P.E.C.AND STREET LIGHT CHECK SWITCH

8) ALL HANDHOLES SHALL BE CONCRETE HANDHOLES WITH TYPE "C" COVERS.

9) SEE SPECIAL PROVISIONS FOR CONTRACTORS RESPONSIBILITY FOR THE LOCATION OF UTILITIES.

10) SIGNAL FACES 2-5, 2-6, 6-5, 6-6 AND 6-7 SHALL BE 3M-TYPE HEADS, OPTICALLY PROGRAMMED VEHICLE SIGNAL FACES PER Mn/DOT 3834.2B

11) HANDHOLES 11 AND 12 SHALL BE SPECIAL HANDHOLES. SEE SPECIAL PROVISIONS.

12) CONTRACTOR SHALL COORDINATE ALL SIGNAL WORK WITH CONTRACTORS COMPLETING ROAD RECONSTRUCTION (S.A.P.62-652-07) AND WITH RAILROAD COMPANY COMPLETING ALL RAILROAD WORK.

13) ITEMS TO BE FURNISHED AND INSTALLED BY CONTRACTOR THAT ARE DENOTED WITH A ▲ SHALL BE MEASURED AND PAID FOR UNDER ITEM NO. 0565.601 (EMERGENCY VEHICLE PREEMPTION SYSTEM).

BASE | OVERLAY | DRG. NO.

SCALE IN FEET
30 0 30 60

COUNTY ROAD "E" (45 MPH)

VICTORIA STREET (40 MPH)

OWASSO AVENUE

SOO LINE RR

COUNTY ROAD "E" (45 MPH)

FIRE STATION ACCESSES
EASEMENT

EASEMENT (5'x30')

EQUIPMENT PAD - SEE (A)

FURNISH AND INSTALL WOOD POLE (S.O.P.)

190' 190' 225 233

H.H.1 H.H.2 H.H.3 H.H.4 H.H.5 H.H.6 H.H.7 H.H.8 H.H.9 H.H.10 H.H.11 H.H.12 H.H.13 H.H.14 H.H.15 H.H.16 H.H.17 H.H.18 H.H.19 H.H.20 H.H.21 H.H.22 H.H.23 H.H.24 H.H.25

D1-1 D2-1 D2-2 D2-3 D2-4 D3-1 D3-2 D3-3 D4-1 D4-2 D4-3 D4-4 D5-1 D5-2 D6-1 D6-2 D6-3 D6-4 D6-5

(A) EQUIPMENT PAD-SEE DETAILS
SERVICE CABINET
EXTEND INTO H.H.23:
1 1/4"R.S.C.
3-1/c#4
EXTEND INTO H.H.1:
1 1/4"R.S.C.
4-1/c#10
EXTEND INTO H.H.11:
1 1/4"R.S.C.
4-1/c#10
CONTROLLER AND CABINET
EXTEND TO SERVICE POLE
1"R.S.C. WITH DRAIN TEE AND
2-2/c TELEPHONE DROP WIRE
EXTEND INTO H.H.1:
4"R.S.C.
5-12/c#12
5-3/c#12
9-2/c#14
▲3-3/c#20
EXTEND INTO H.H.11:
2-3"R.S.C.
8-12/c#12
4-3/c#12
10-2/c#14
▲2-3/c#20
BETWEEN SERVICE AND CONTROLLER CABINET
1 1/4"R.S.C.
2-1/c#6
1-1/c#6 (BARE)

(1) TYPE P90-A-30-T30-10
P90 POLE FOUNDATION
2-ONE WAY SIGNALS-OVERHEAD
TYPE 20A-POLE MOUNTED 270°
R9-3a SIGN -POLE MOUNTED 0°
▲ ONE WAY EVP DETECTOR AND LIGHT
LUMINAIRE-200 WATT H.P.S. AT 350°
EXTEND INTO H.H.1:
3"R.S.C.
2-12/c#12
2-1/c#10
▲1-3/c#20

(2) TYPE P80-A-20
P80 POLE FOUNDATION
ONE WAY SIGNAL-OVERHEAD
TYPE 10B-POLE MOUNTED 270°
▲ ONE WAY EVP DETECTOR AND LIGHT
EXTEND INTO H.H.2:
3"R.S.C.
1-12/c#12
2-3/c#12
▲1-3/c#20

(3) TYPE P80-A-25-T40-10
P80 POLE FOUNDATION
ONE WAY SIGNAL-OVERHEAD
TYPE 10C-POLE MOUNTED 270°
ONE-PEDESTRIAN PUSH BUTTON AND SIGN AT 270°
LUMINAIRE-200 WATT H.P.S. AT 350°
EXTEND INTO H.H.6:
3"R.S.C.
1-12/c#12
3-3/c#12
2-1/c#10

(4) TYPE 1C
PEDESTAL POLE AND BASE
PEDESTAL FOUNDATION
ONE-PEDESTRIAN PUSH BUTTON AND SIGN
R9-3a SIGN-POLE MOUNTED
EXTEND INTO H.H.10:
3" R.S.C.
1-12/c#12
1-3/c#12

(5) TYPE P90-A-30-T40-10
P90 POLE FOUNDATION
2-ONE WAY SIGNALS-OVERHEAD
TYPE 20B-POLE MOUNTED 270°
ONE PEDESTRIAN PUSH BUTTON AND SIGN AT 180°
R9-3a SIGN -POLE MOUNTED 0°
LUMINAIRE-200 WATT H.P.S. AT 350°
EXTEND INTO H.H.13:
3"R.S.C.
2-12/c#12
1-3/c#12
2-1/c#10

(6) TYPE P80-A-15
P80 POLE FOUNDATION
ONE WAY SIGNAL-OVERHEAD
TYPE 20C-POLE MOUNTED 270°
ONE-PEDESTRIAN PUSH BUTTON AND SIGN AT 270°
EXTEND INTO H.H.14:
3" R.S.C.
2-12/c#12
2-3/c#12

(7) TYPE P80-A-20-T30-10
P80 POLE FOUNDATION
ONE WAY SIGNAL-OVERHEAD
TYPE 20C-POLE MOUNTED 270°
▲ TWO WAY EVP DETECTOR AND LIGHT
LUMINAIRE-200 WATT H.P.S. AT 350°
EXTEND INTO H.H.22:
3" R.S.C.
2-12/c#12
2-3/c#12
2-1/c#10
▲1-3/c#20

(8) TYPE P80-A-20
P80 POLE FOUNDATION
ONE WAY SIGNAL-OVERHEAD
TYPE 20B-POLE MOUNTED 270°
ONE-PEDESTRIAN PUSH BUTTON AND SIGN AT 270°
R9-3a SIGN -POLE MOUNTED 270°
▲ ONE WAY EVP DETECTOR AND LIGHT
EXTEND INTO H.H.18:
3"R.S.C.
2-12/c#12
1-3/c#12
▲1-3/c#20

(9▲) ▲10' PEDESTAL POLE AND BASE
▲PEDESTAL FOUNDATION
▲ONE WAY EVP DETECTOR
EXTEND INTO H.H.25:
▲3" R.S.C.
▲1-3/c#20

PEDESTRIAN PUSH BUTTON STATION (4"R.S.C.)
ONE-PEDESTRIAN PUSH BUTTON AND SIGN
EXTEND INTO H.H.7:
1 1/4"R.S.C.
1-3/c#12

PEDESTRIAN PUSH BUTTON STATION (4"R.S.C.)
ONE-PEDESTRIAN PUSH BUTTON AND SIGN
EXTEND INTO H.H.2:
1 1/4"R.S.C.
1-3/c#12

PEDESTRIAN PUSH BUTTON STATION (4"R.S.C.)
2-PEDESTRIAN PUSH BUTTONS AND SIGNS
EXTEND INTO H.H.19:
1 1/4"R.S.C.
1-3/c#12

PEDESTRIAN PUSH BUTTON STATION (4"R.S.C.)
ONE-PEDESTRIAN PUSH BUTTON AND SIGN
EXTEND INTO H.H.14:
1 1/4"R.S.C.
1-3/c#12

SOO LINE RR SIGNAL CONTROL CABINET-INPLACE

EXTEND TO INPLACE RR CABINET (FOR RR INTERCONNECT BY OTHERS)
2" R.S.C.
1-3/c#12

BETWEEN H.H.8 AND H.H.9:
1 1/4"R.S.C.
1-2/c#14
BETWEEN H.H.7 AND H.H.8:
1 1/4"R.S.C.
2-2/c#14
BETWEEN H.H.6 AND H.H.7:
1 1/4"R.S.C.
1-3/c#12
3-2/c#14
BETWEEN H.H.2 AND H.H.6:
3"R.S.C.
1-12/c#12
2-3/c#12
3-2/c#14
2-1/c#10
BETWEEN H.H.5,H.24 AND H.H.25:
▲ 1 1/4" R.S.C.
▲ 1-3/c#20
BETWEEN H.H.4 AND H.H.5:
1 1/4" R.S.C.
1-2/c#14
▲ 1-3/c#20

BETWEEN H.H.2 AND H.H.3:
1 1/4"R.S.C.
3-2/c#14
▲1-3/c#20
BETWEEN H.H.1 AND H.H.2:
3"R.S.C.
2-12/c#12
3-3/c#12
7-2/c#14
2-1/c#10
▲2-3/c#20
BETWEEN H.H.1 AND H.H.10:
3"R.S.C.
1-12/c#12
2-3/c#12
2-2/c#14
BETWEEN H.H.11 AND H.H.12:
2-4"R.S.C.
8-12/c#12
4-3/c#12
10-2/c#14
4-1/c#10
▲ 2-3/c#20

BETWEEN H.H.12 AND H.H.13:
3"R.S.C.
4-12/c#12
2-3/c#12
5-2/c#14
2-1/c#10
BETWEEN H.H.13 AND H.H.14:
3"R.S.C.
2-12/c #12
1-3/c#12
4-2/c#14
BETWEEN H.H.14 AND H.H.15
1 1/4"R.S.C.
4-2/c#14
BETWEEN H.H.15 AND H.H.16:
3"R.S.C.
3-2/c#14
BETWEEN H.H.16 AND H.H.17:
1 1/4"R.S.C.
2-2/c#14
BETWEEN H.H.12 AND H.H.18:
3"R.S.C.
4-12/c#12
2-3/c#12
3-2/c#14
2-1/c#10
▲ 2-3/c#20
BETWEEN H.H.18 AND H.H.19:
3"R.S.C.
2-12/c#12
1-3/c#12
3-2/c#14
2-1/c#10
▲1-3/c#20

BETWEEN H.H.20 AND H.H.21:
1 1/4"R.S.C.
1-2/c#14
BETWEEN H.H.19 AND H.H.20:
1 1/4"R.S.C.
2-2/c#14
BETWEEN H.H.19 AND H.H.22:
3"R.S.C.
2-12/c#12
2-3/c#12
2-1/c#10
▲1-3/c#20

BETWEEN H.H.3 AND H.H.4:
3" R.S.C.
1-2/c#14
▲1-3/c#20

SIGNAL INDICATION CHART

FACE	PHASE	R	Y	G	YLTA	GLTA
2-1	2	12	12	12		
2-2	2 & 5	12	12	12	12	12
2-3	2 & 5	12	12	12	12	12
2-4	2	12	12	12		
2-5	2,4,8	12	12	12		
2-6	2,4,8	12	12	12		
3-1	3	12	12	12		
3-2	3	12	12	12		
3-3	3	12	12	12		
4-1	4	12	12	12		
4-2	4	12	12	12		
4-3	4	12	12	12		
4-4	4	12	12	12		
4-5	4	12	12	12		
4-6	4	12	12	12		
6-1	6	12	12	12		
6-2	6 & 1	12	12	12	12	12
6-3	6 & 1	12	12	12	12	12
6-4	6	12	12	12		
6-5	3,6,8	12	12	12		
6-6	3,6,8	12	12	12		
6-7	3,6,8	12	12	12		

FLASH MODE=ALL RED.
ALL SIZES ARE IN INCHES.

VEHICLE DETECTION

NUMBER	SIZE	LOCATION	FUNCTION
D1-1	2-6'x15'	0'	1,4
D2-1	6'x6'	260'	1
D2-2	6'x6'	260'	1
D2-3	6'x15'	0'	2
D2-4	6'x15'	0'	2
D3-1	2-6'x6'	155'	1
D3-2	2-6'x6'	70'	1
D3-3	2-6'x15'	0'	1,4
D4-1	2-6'x6'	155'	1
D4-2	2-6'x6'	70'	1
D4-3	2-6'x15'	0'	1,4
D4-4	6'x15'	0'	2
D5-1	2-6'x15'	0'	1,4
D5-2	6'x25'	80'	3
D6-1	6'x6'	260'	1
D6-2	6'x6'	90'	1
D6-3	6'x6'	90'	1
D6-4	6'x15'	0'	2
D6-5	6'x15'	0'	2

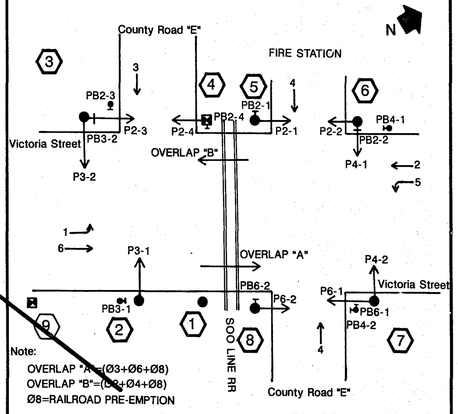
NOTE: LOCATION=DISTANCE FROM STOP BAR TO LOOP DETECTOR.

FUNCTIONS:
1) CALL AND EXTEND
2) CALL ONLY
3) EXTEND ONLY
4) TIME DELAY.

SIGNAL HEAD PHASING

HEADS 2-2 AND 2-3: R, Y, G → Ø2; Y, G → Ø5
HEADS 6-2 AND 6-3: R, Y, G → Ø6; Y, G → Ø1

CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS



ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: M.R.
DATE: 3-31-93

SIGNAL SYSTEM TO BE CONSTRUCTED UNDER SEPARATE CONTRACT—FOR INFORMATION ONLY!

NO.	BY	DATE	REVISIONS	ITEM	DES'3N	CHECKED

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
Glen VanWormer
Date 4/17/90 Reg No. 9089

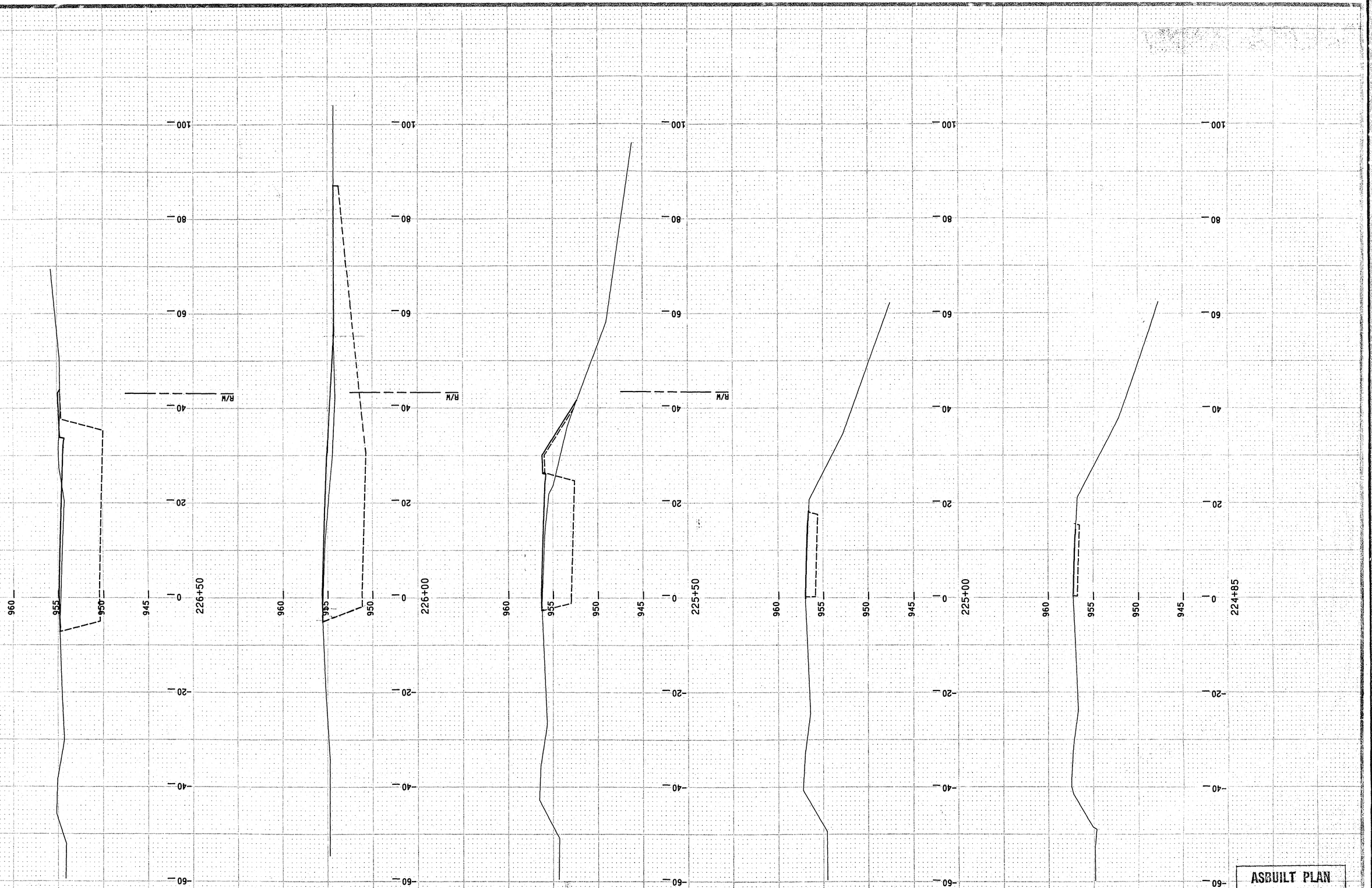
ENGINEERS ■ ARCHITECTS ■ PLANNERS

RAMSEY COUNTY, MINNESOTA
CITY OF SHOREVIEW
S.A.P. 62-652-09

TRAFFIC SIGNAL SYSTEM
INTERSECTION LAYOUT
VICTORIA STREET AT COUNTY ROAD "E"

FILE NO. 89140
DATE 4/16/90
28 / 60

28-114



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CONST. RECORDS
DONE BY: M.R.
DATE: 3-31-93

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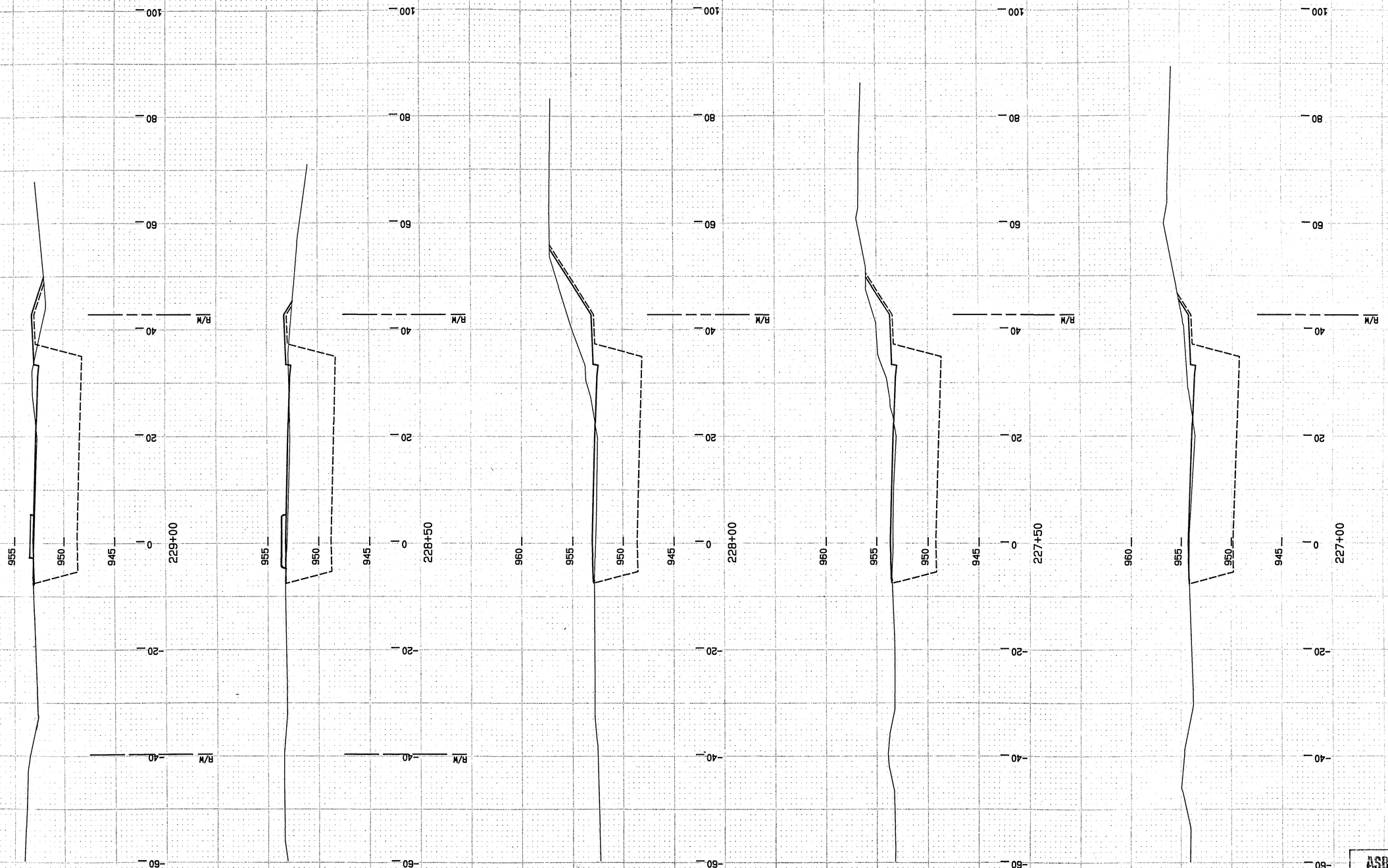

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DATE: 3-31-93

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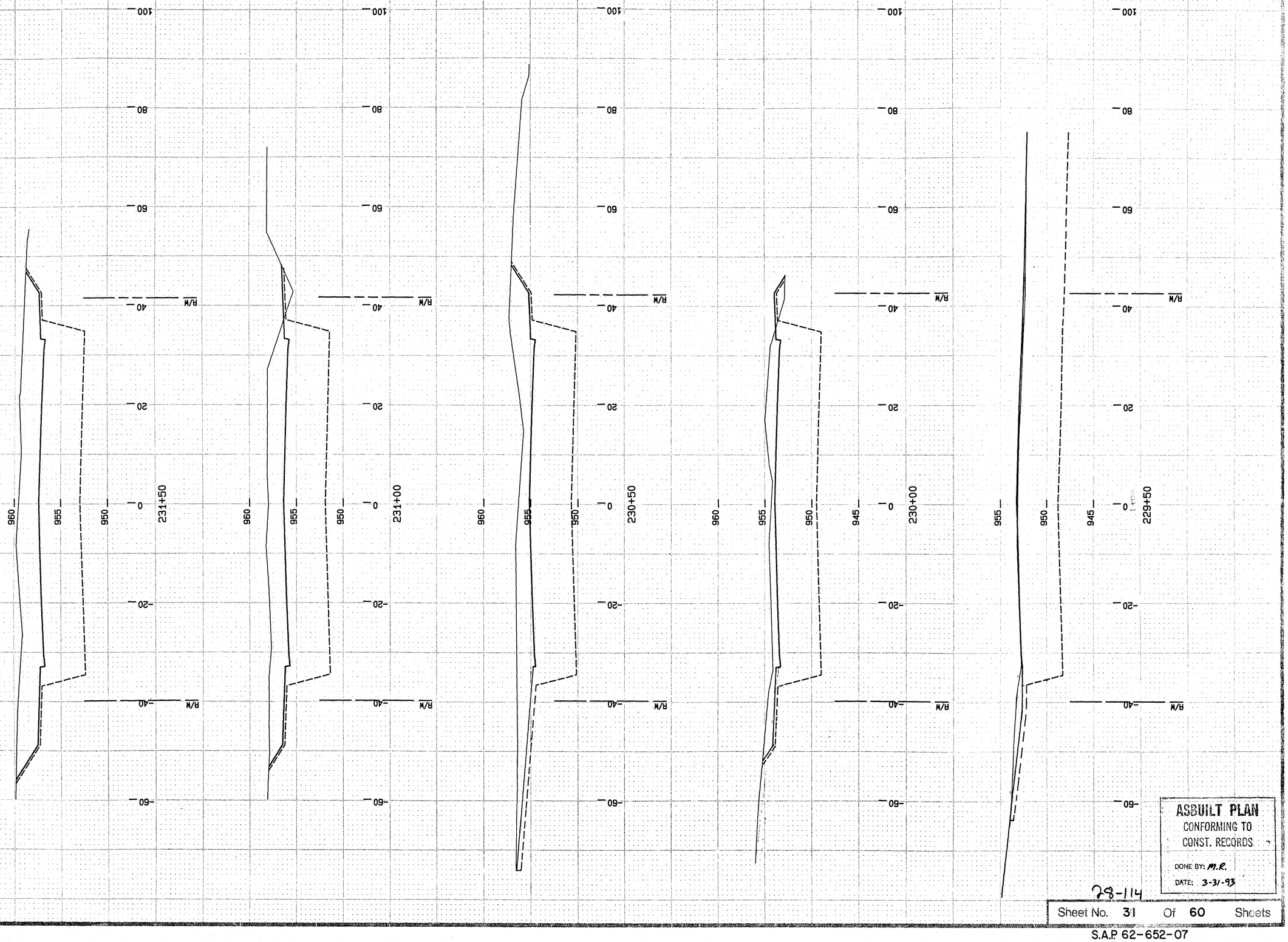

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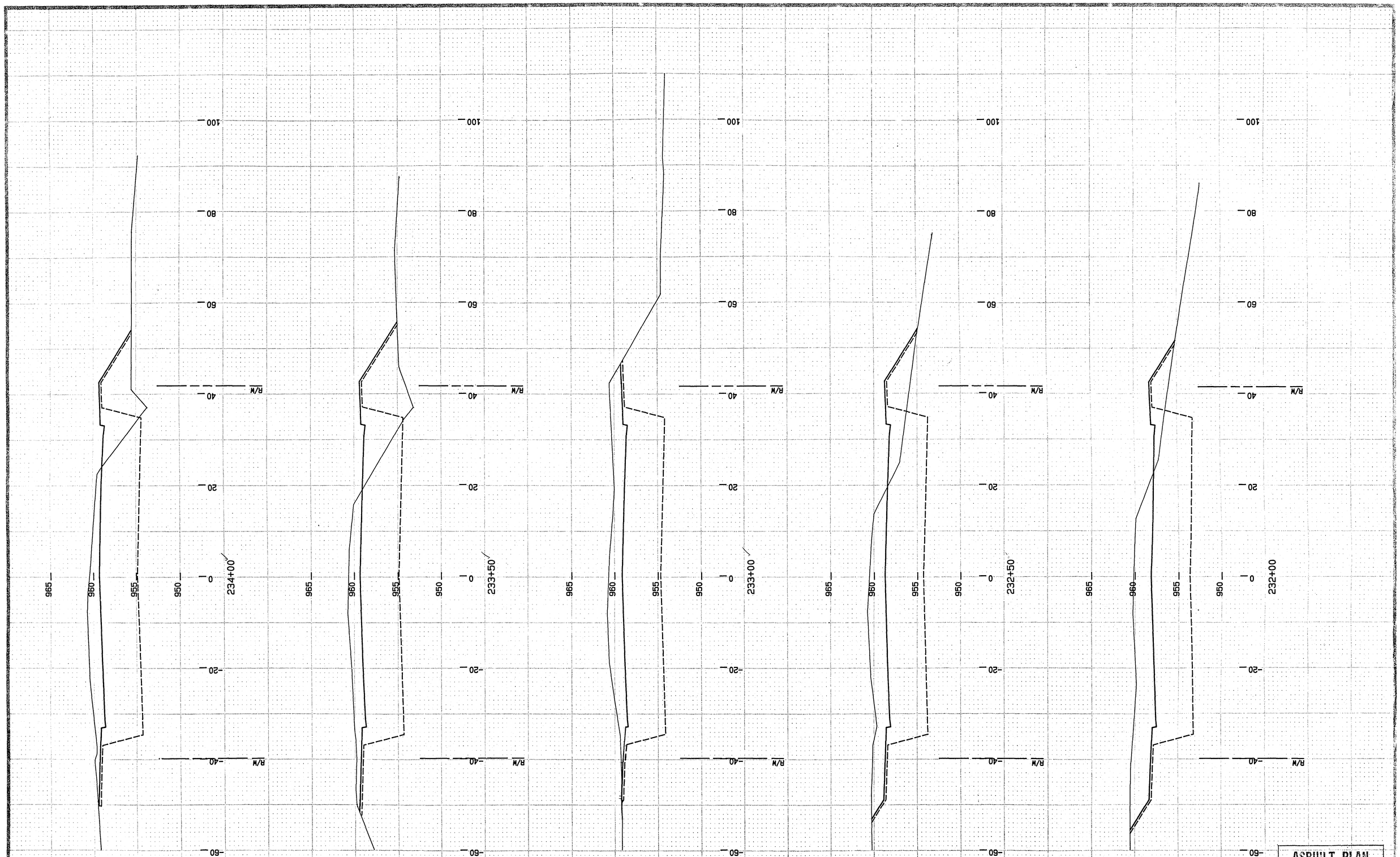

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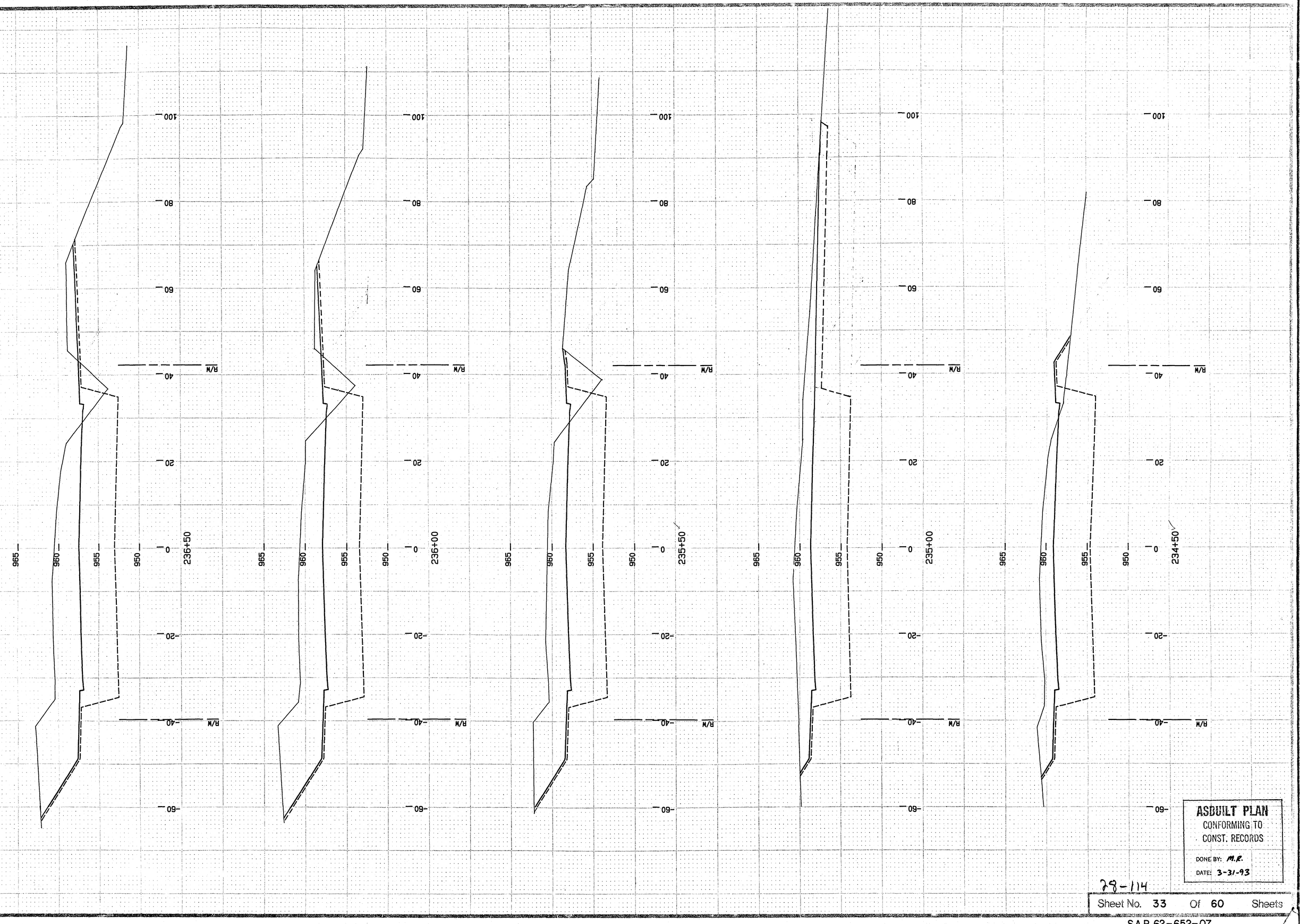

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DATE: 3-31-93

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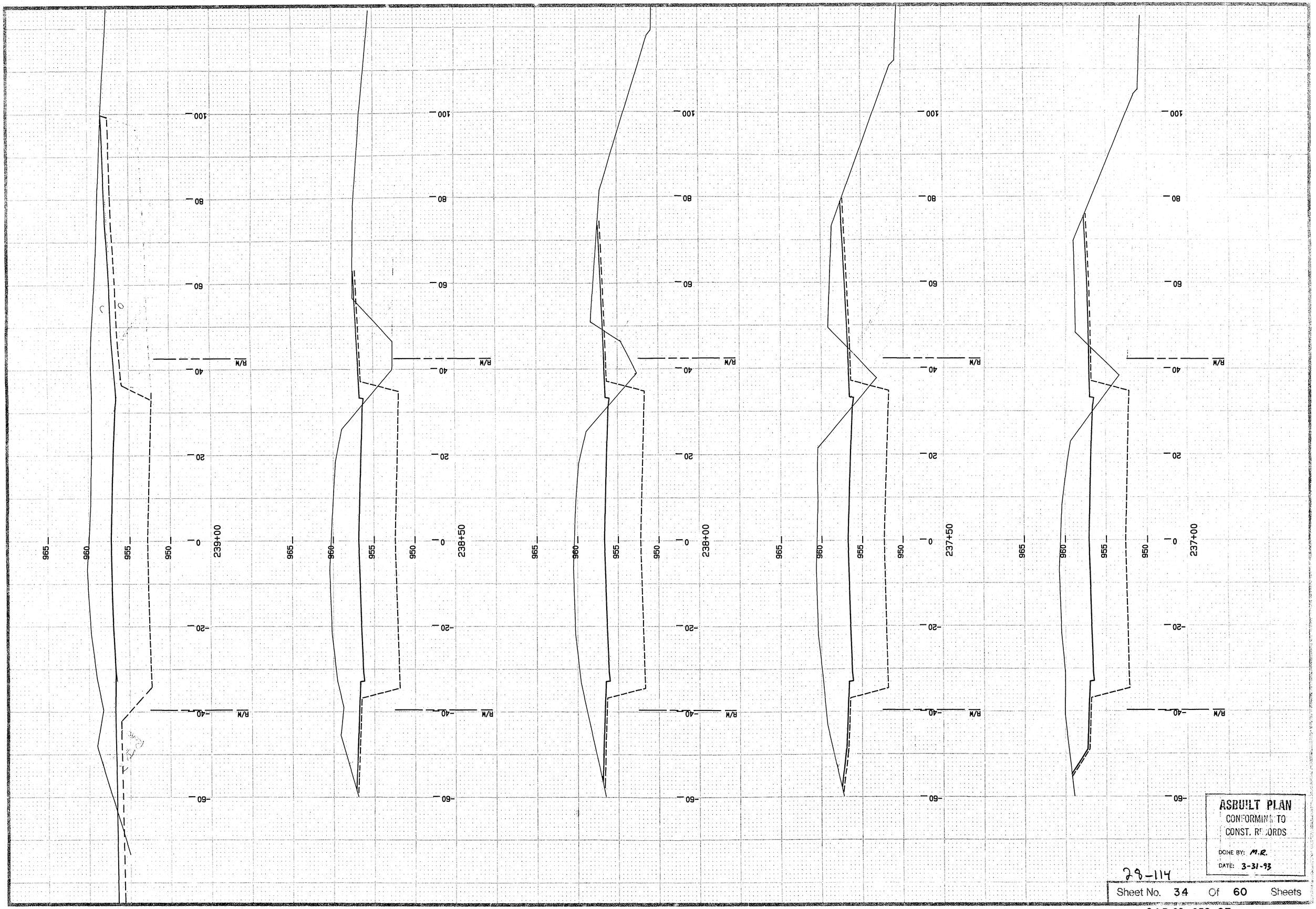

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DATE: 3-31-93

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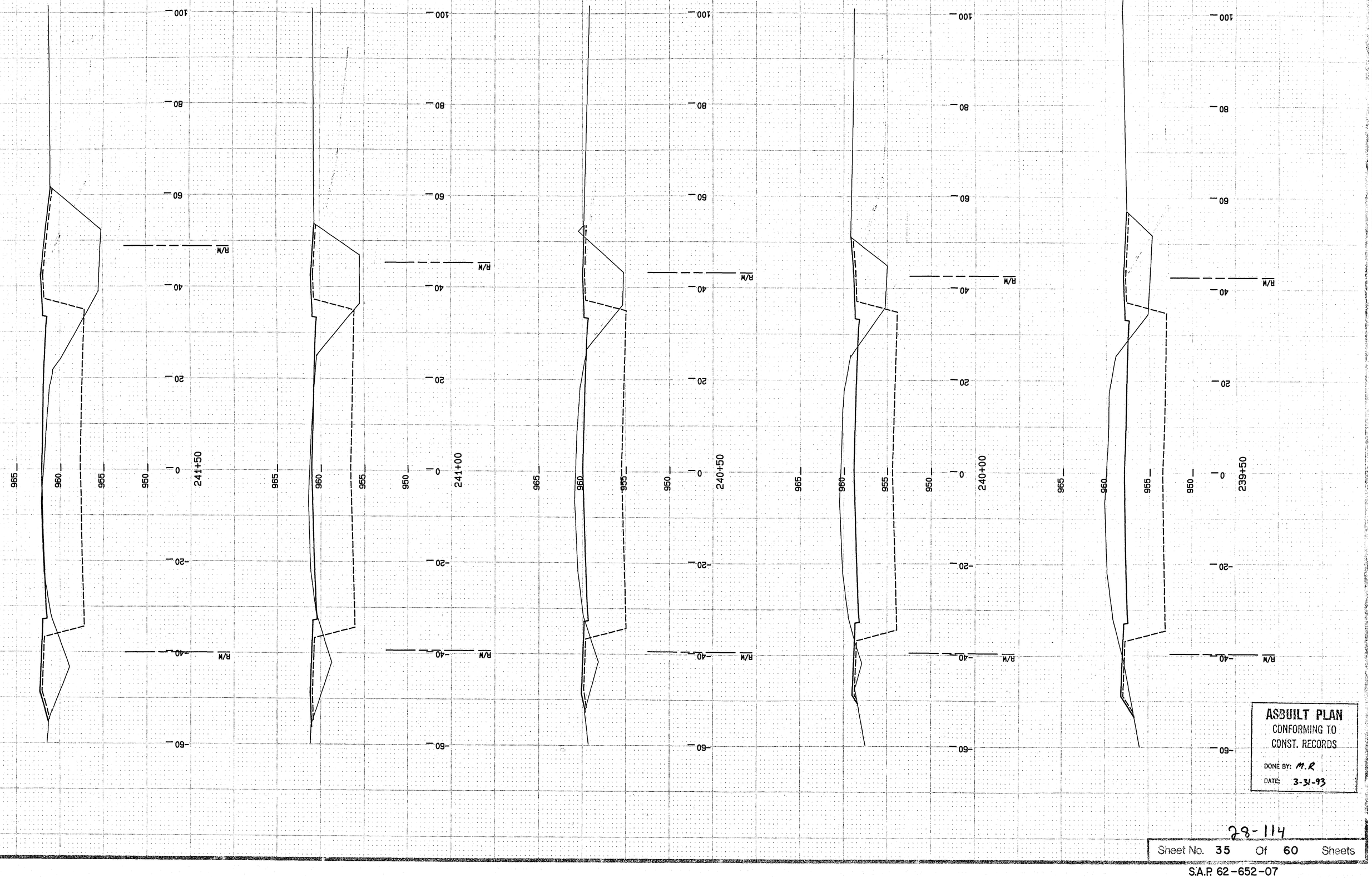

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DATE: 3-31-93

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ASBUILT PLAN
CONFORMING TO
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DONE BY: MR
DATE: 2-17-93

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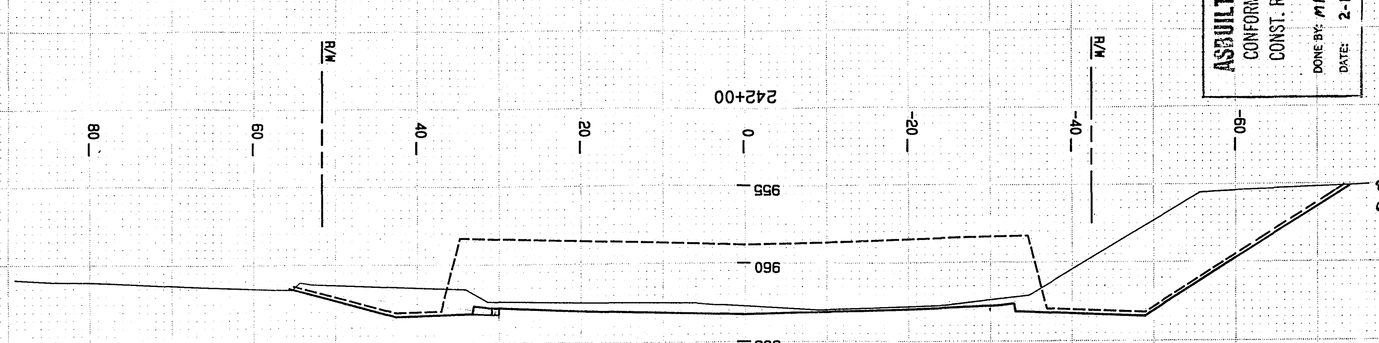
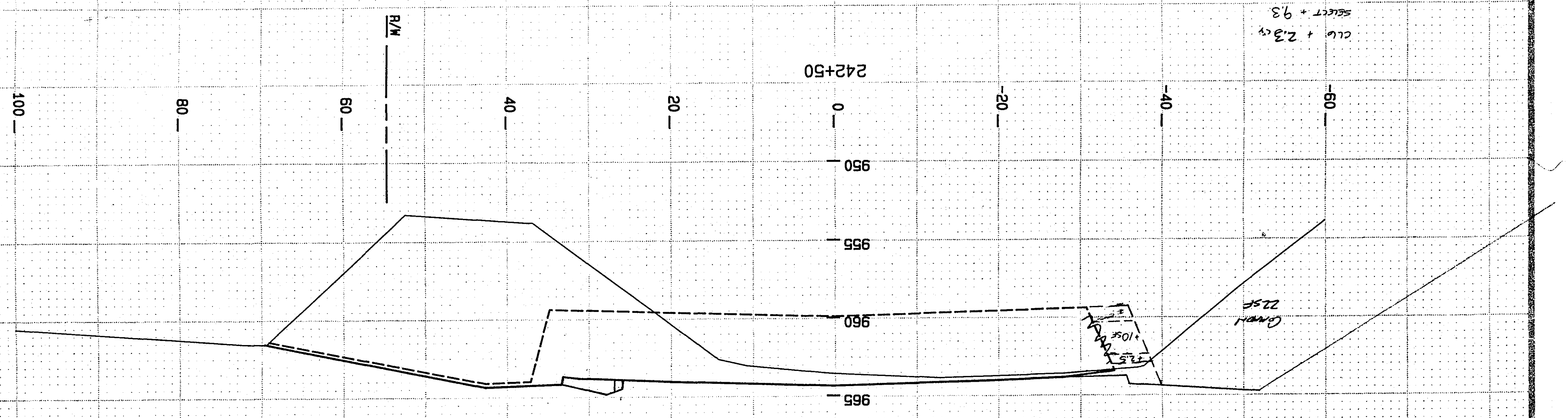
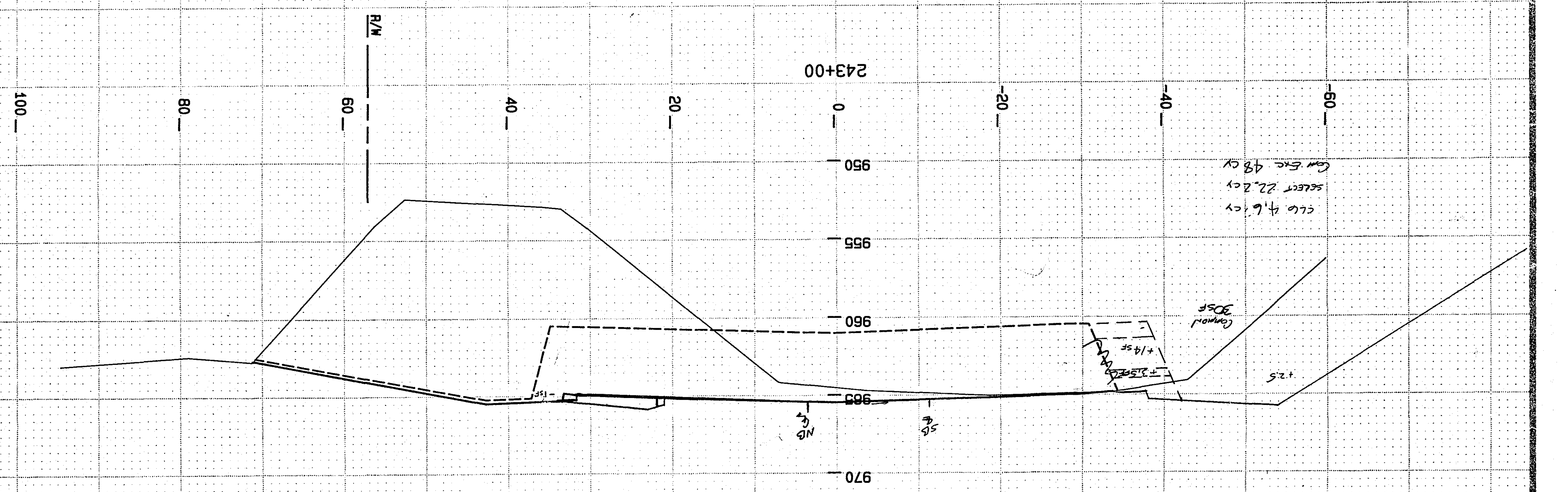
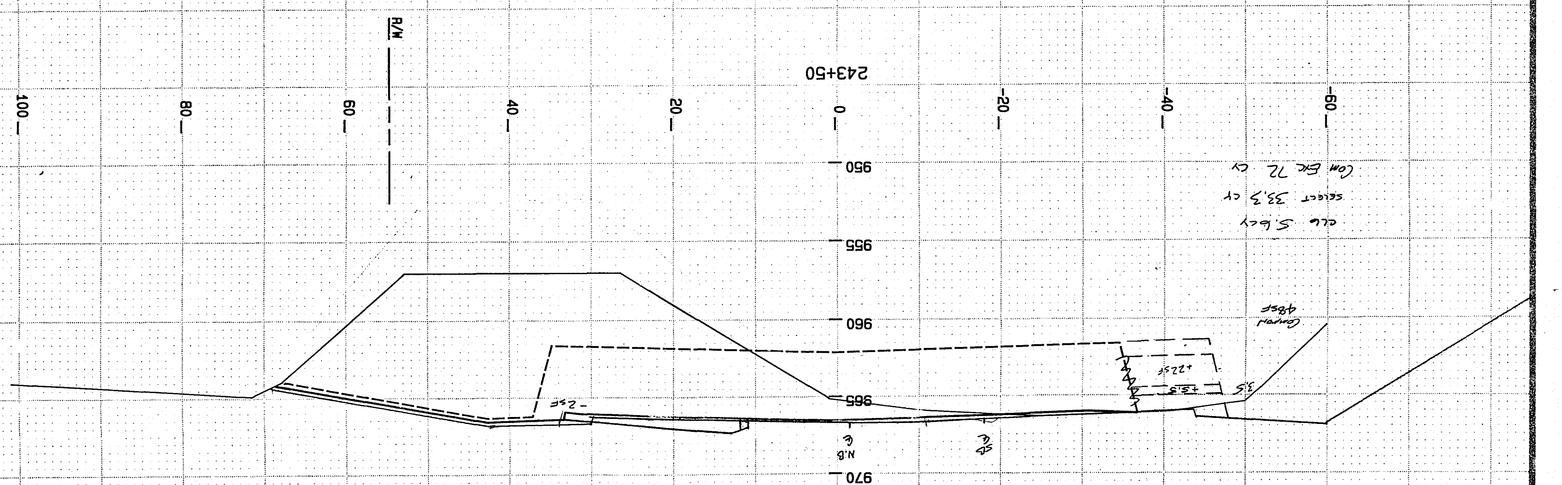
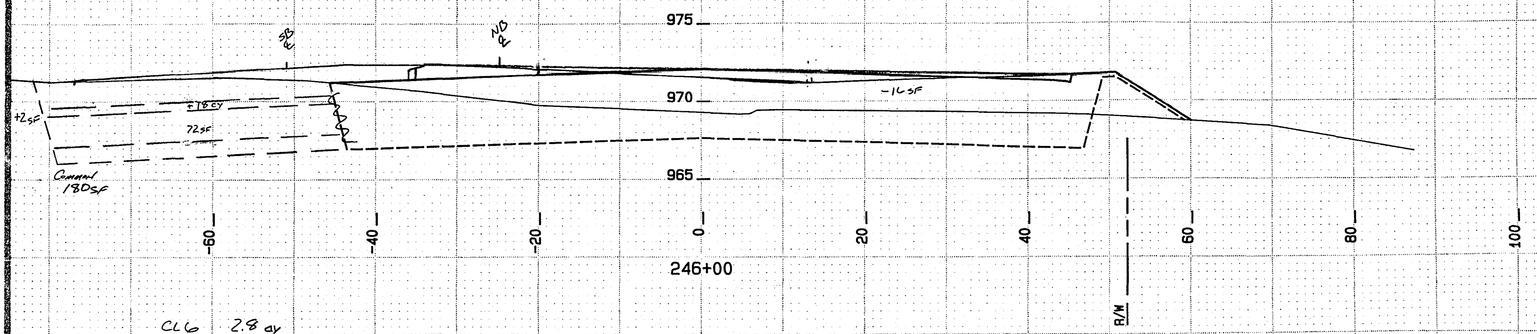




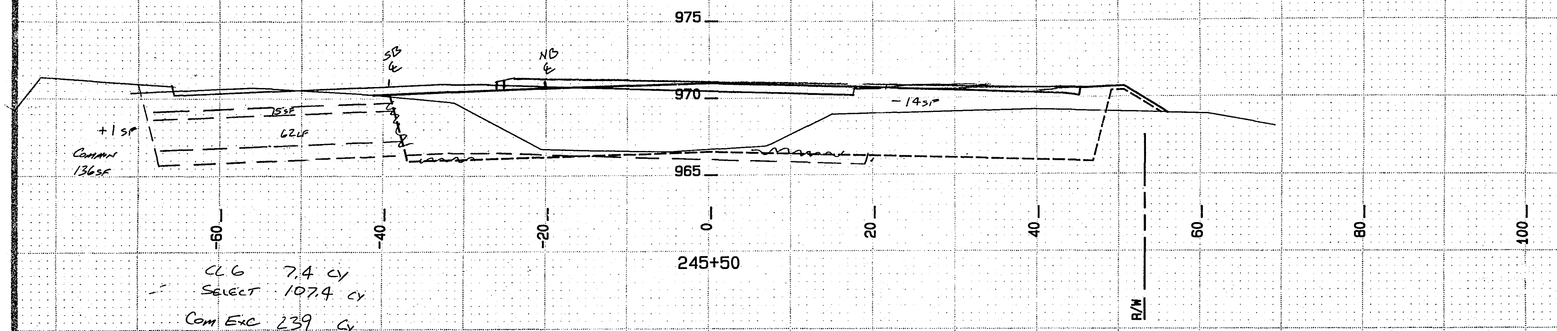




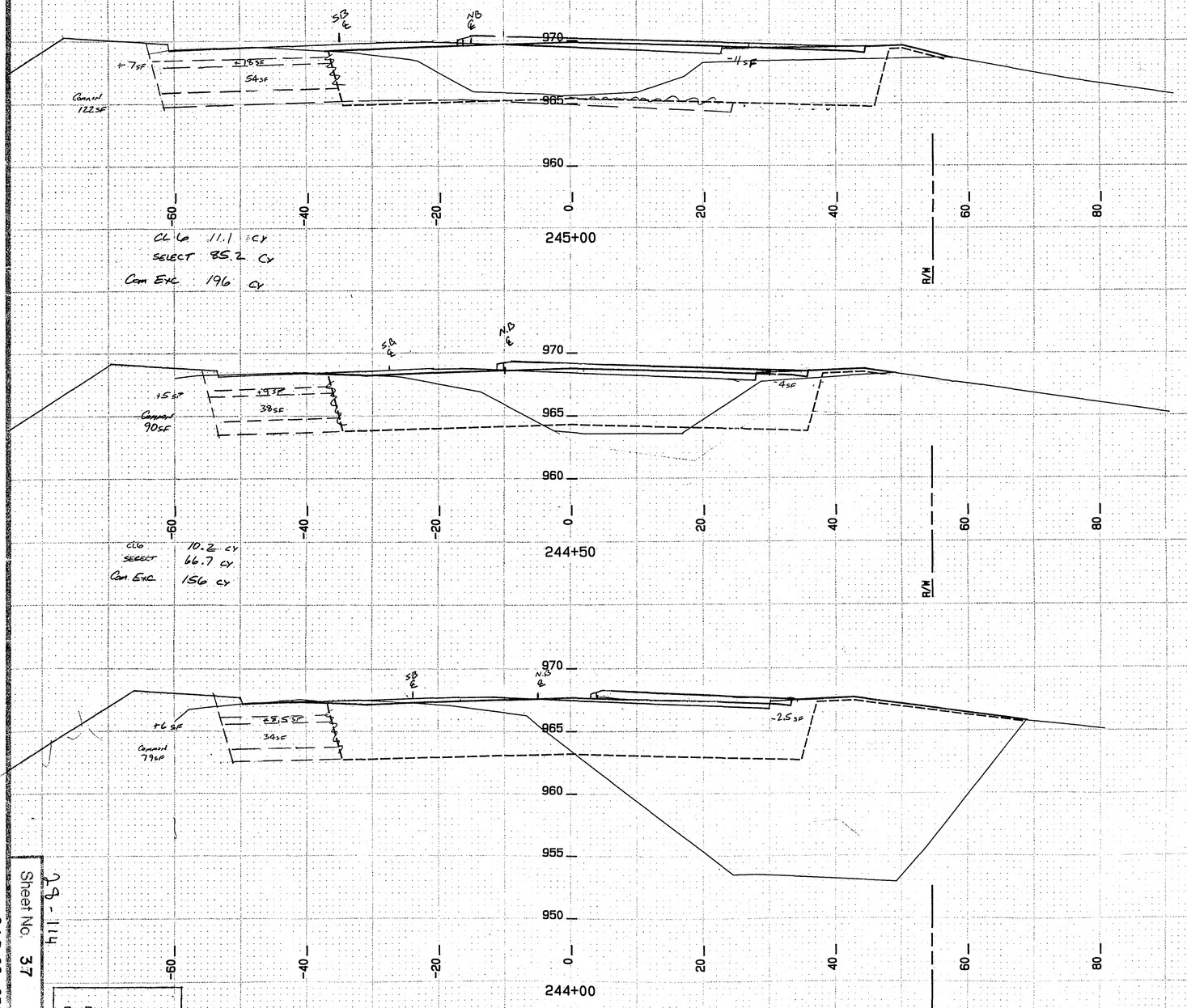
Clay 8.8 cy
Select 51.9 cy
Cum Exc 118 cy



CL 6 2.8 cy
SELECT 124 cy
Com. Exc. 293 cy



CL 6 7.4 cy
SELECT 107.4 cy
Com Exc 239 cy



CL 6 11.1 cy
SELECT 85.2 cy
Com Exc 196 cy

CL 6 10.2 cy
SELECT 66.7 cy
Com Exc 156 cy

ASBUILT PLAN
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S.A.P. 62-652-07 & S.A.P 62-652-08

Sheets

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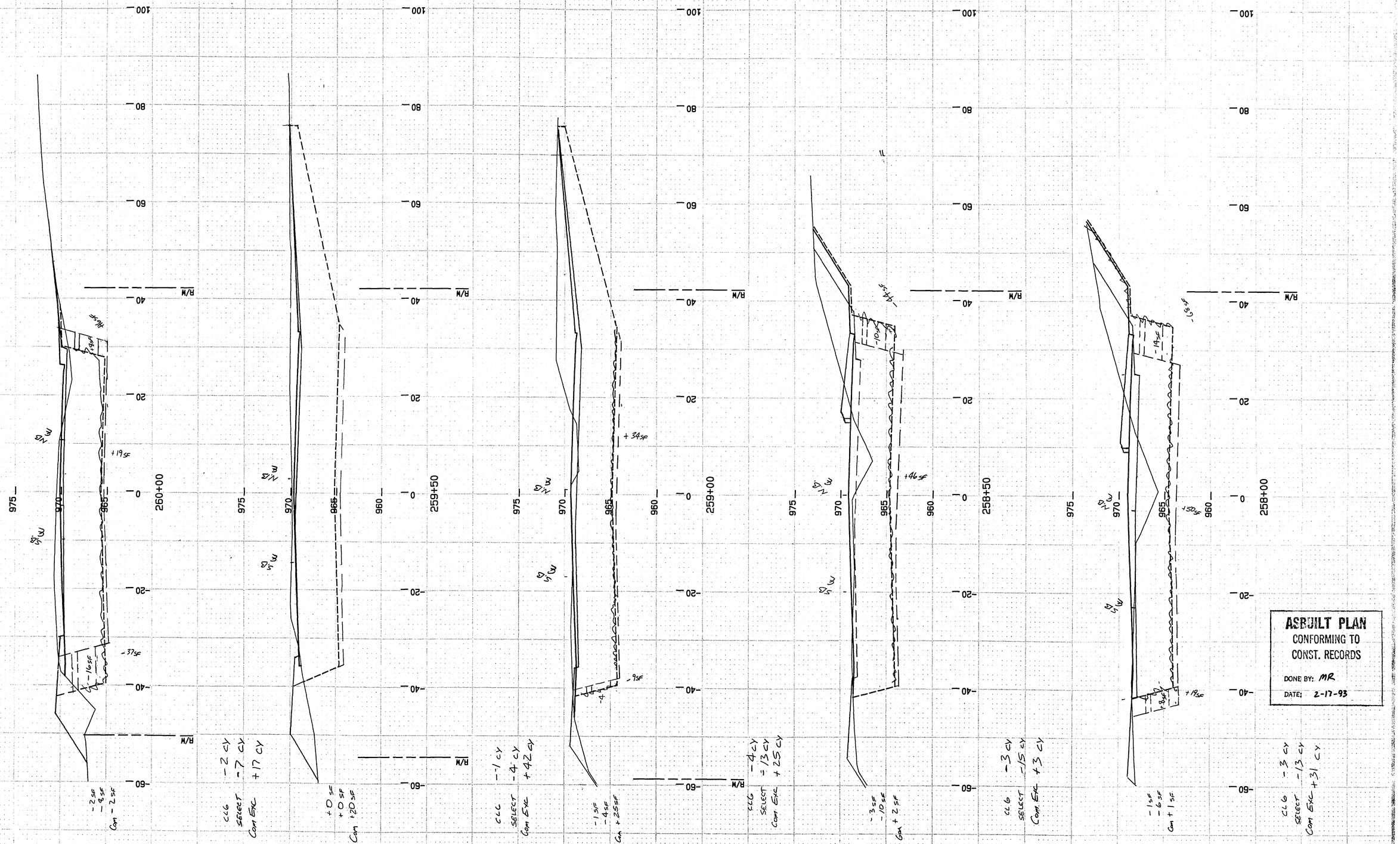

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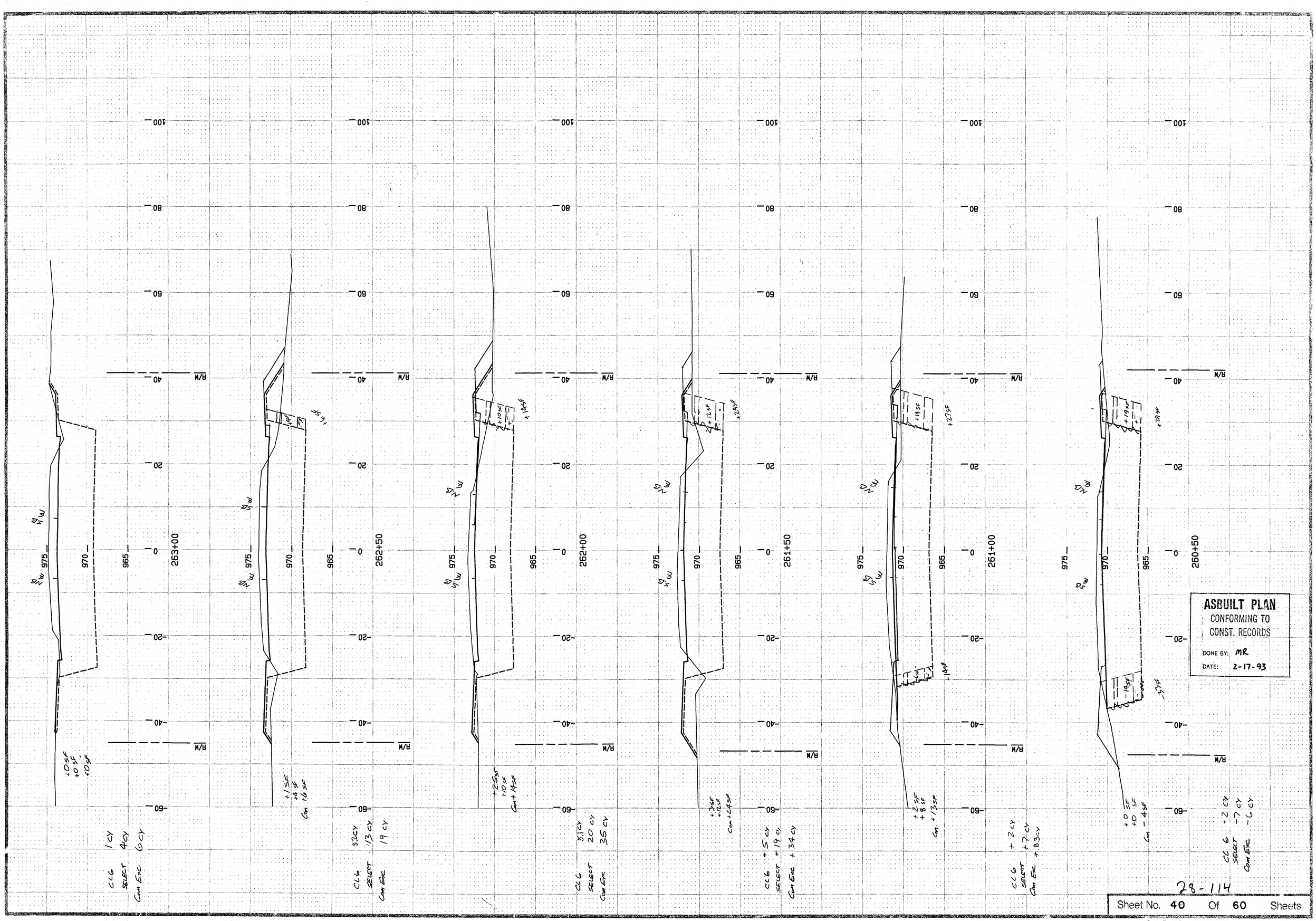
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262+50
262+00
261+50
261+00
260+50
R/W
40
60
80
100
20
0
-20
-40
-60
975
970
965
NLG
CL6 1 CY
SELECT 4CY
Com Exc 6 CY
CL6 32CY
SELECT 13 CY
Com Exc 19 CY
CL6 51CY
SELECT 20 CY
Com Exc 35 CY
CL6 + 5 CY
SELECT + 19 CY
Com Exc + 34 CY
CL6 + 2 CY
SELECT + 7 CY
Com Exc + 8.3 CY
CL6 - 2 CY
SELECT - 7 CY
Com Exc - 6 CY
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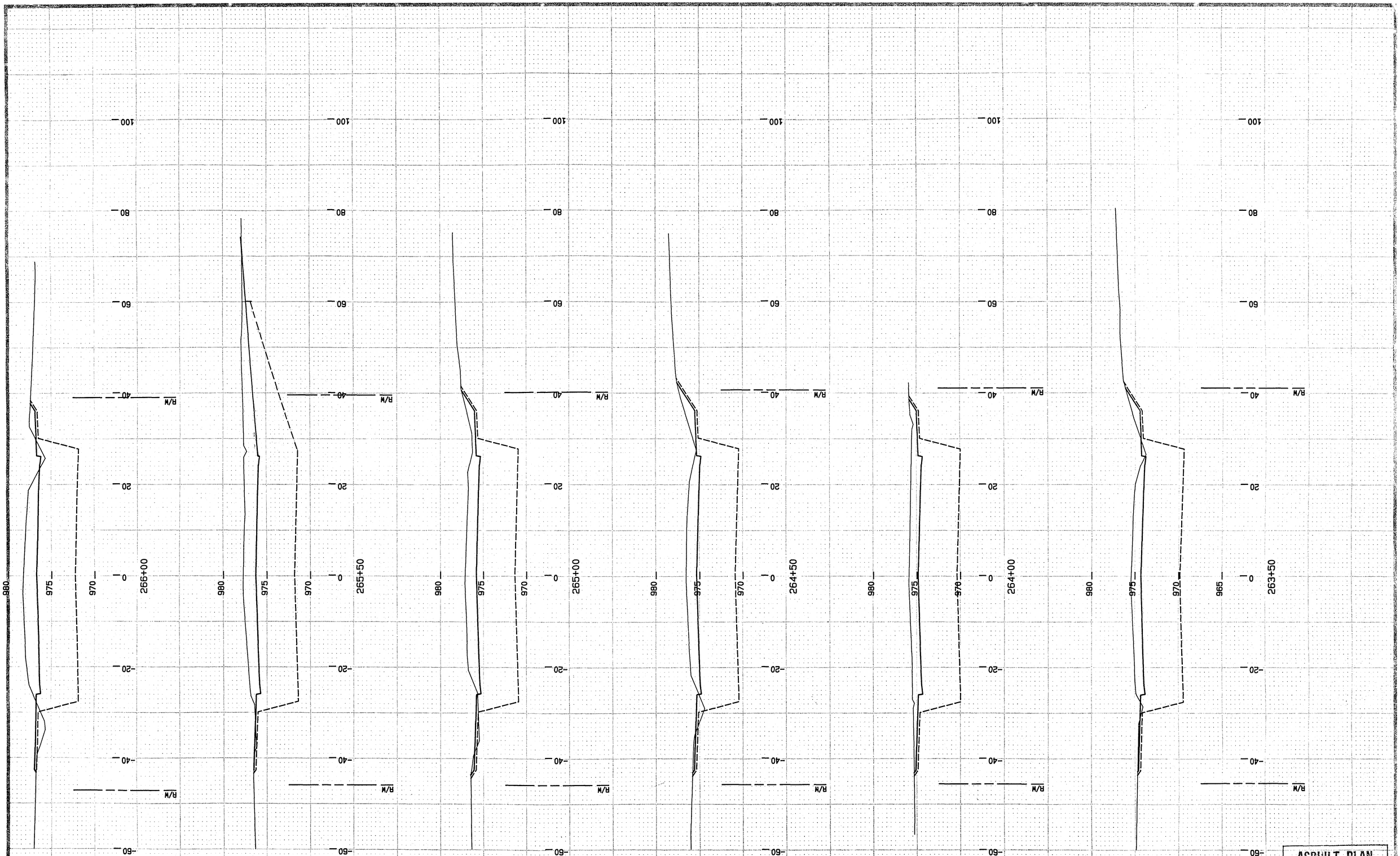
DATE: 2-17-93



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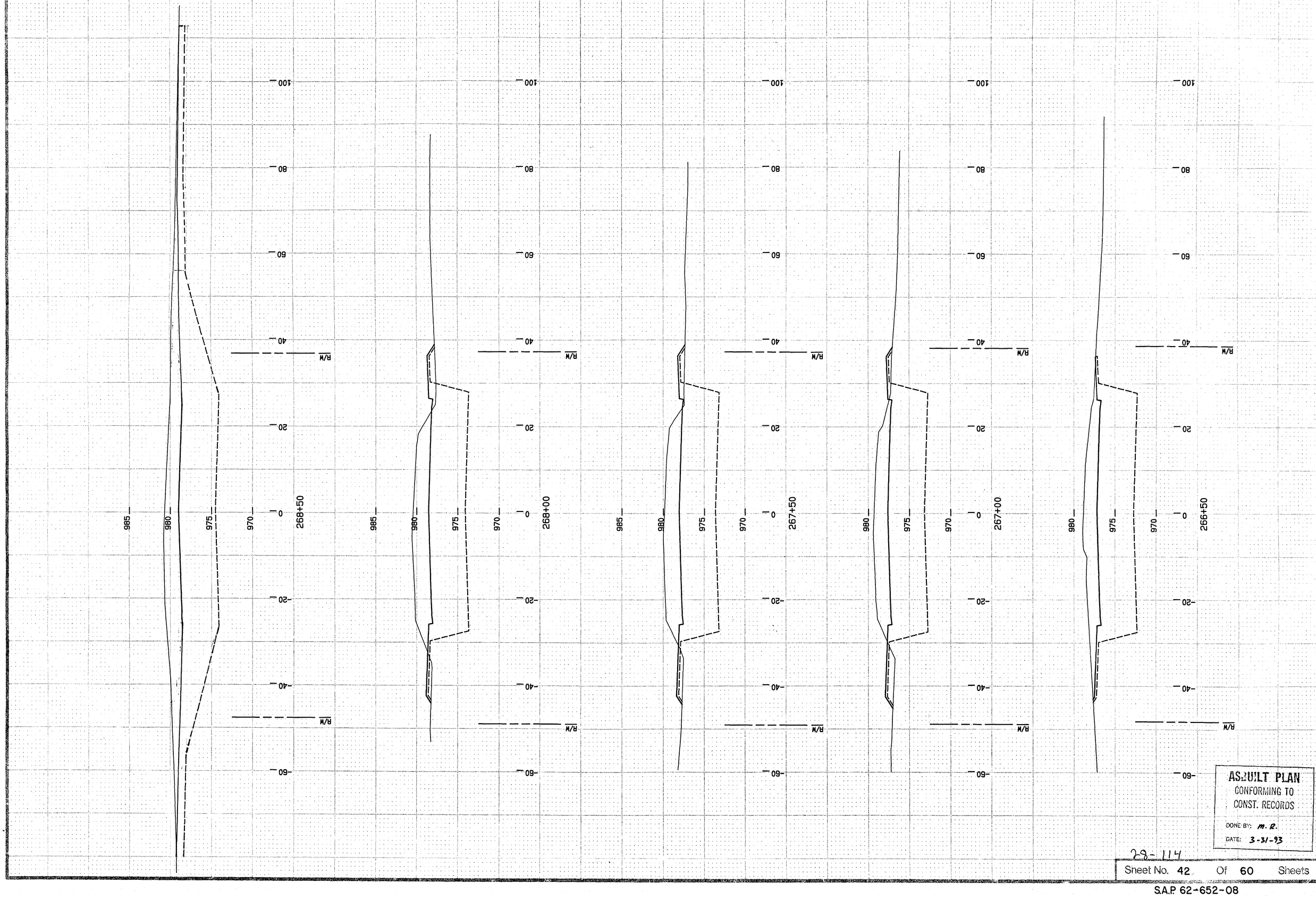

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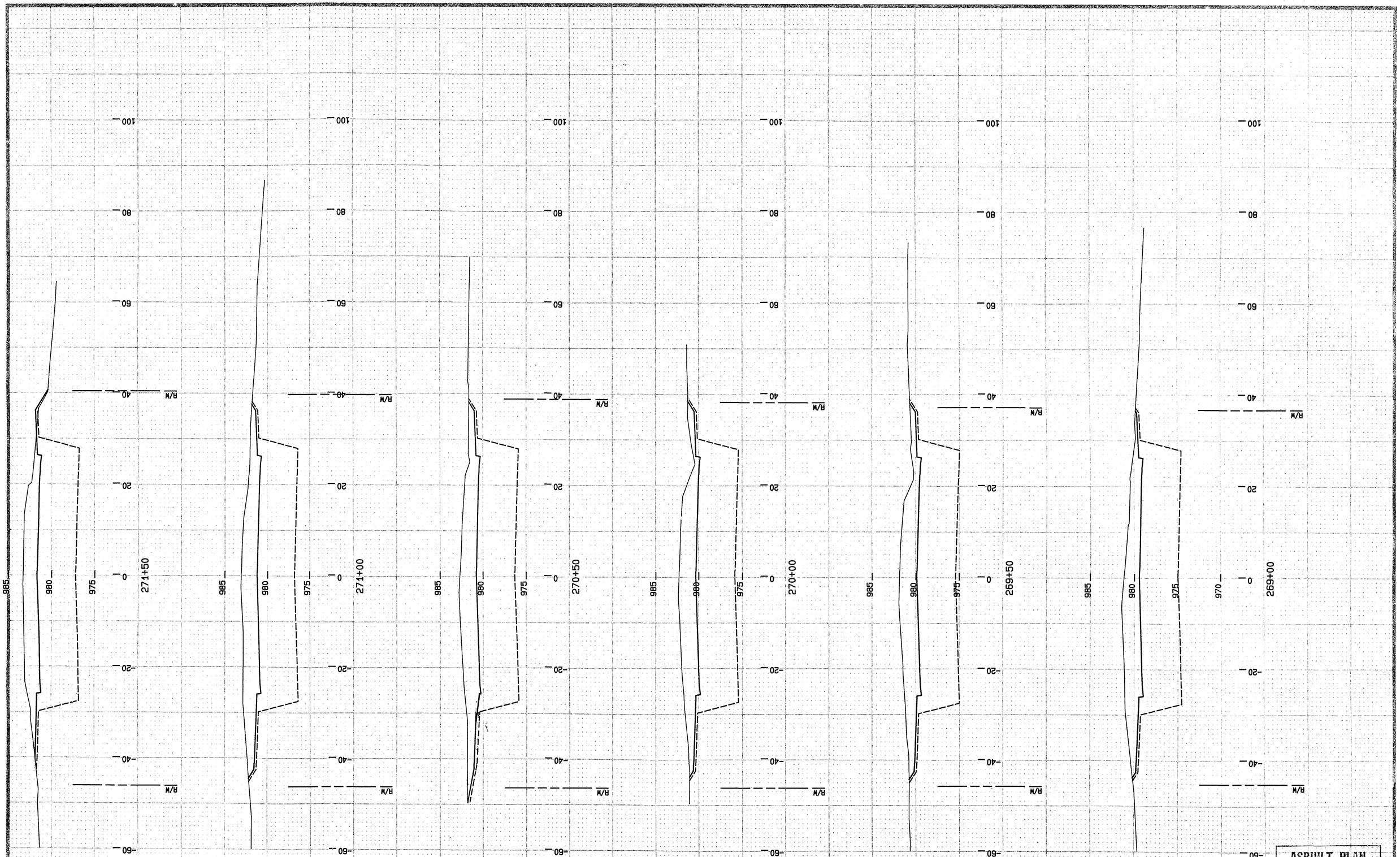

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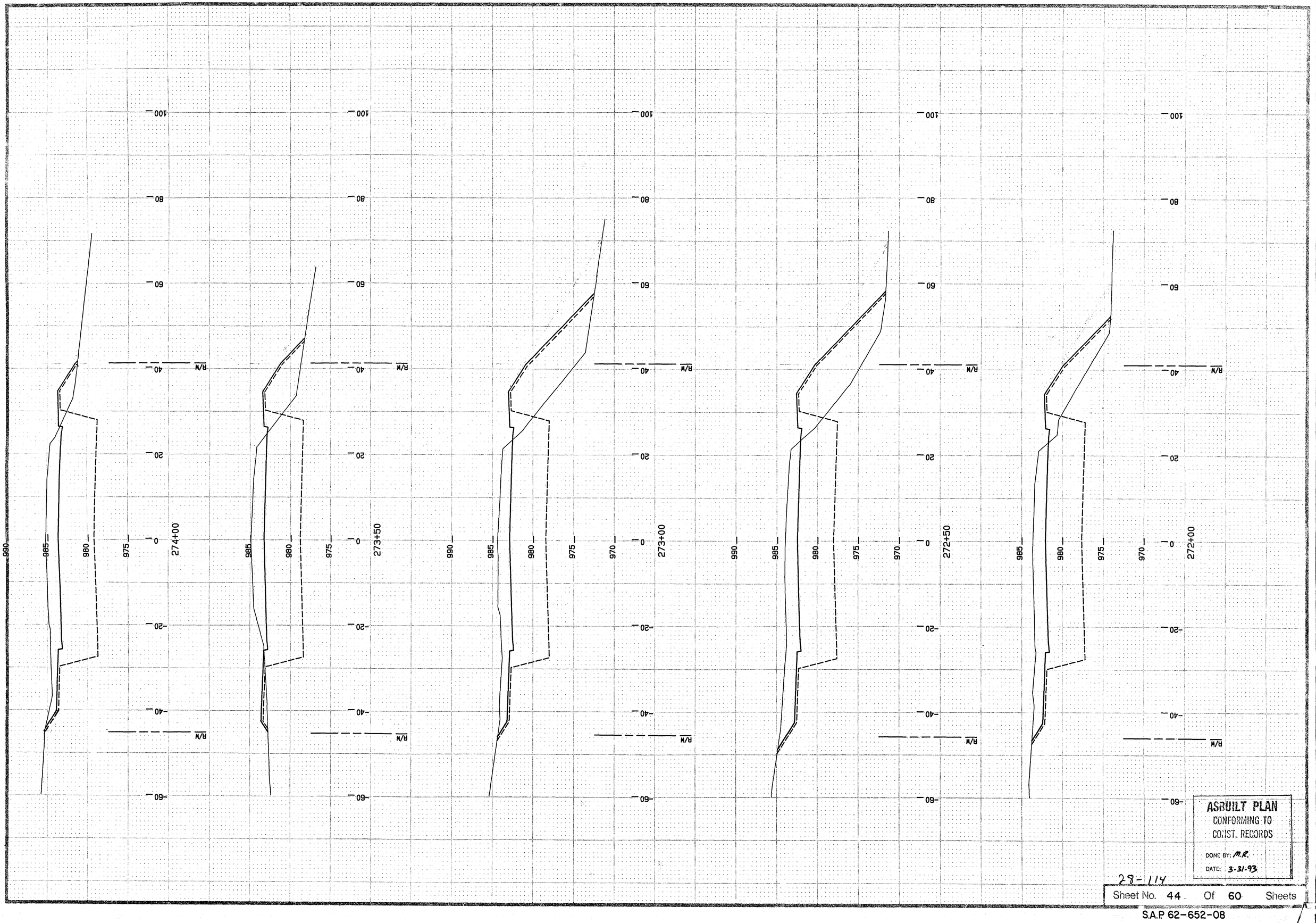

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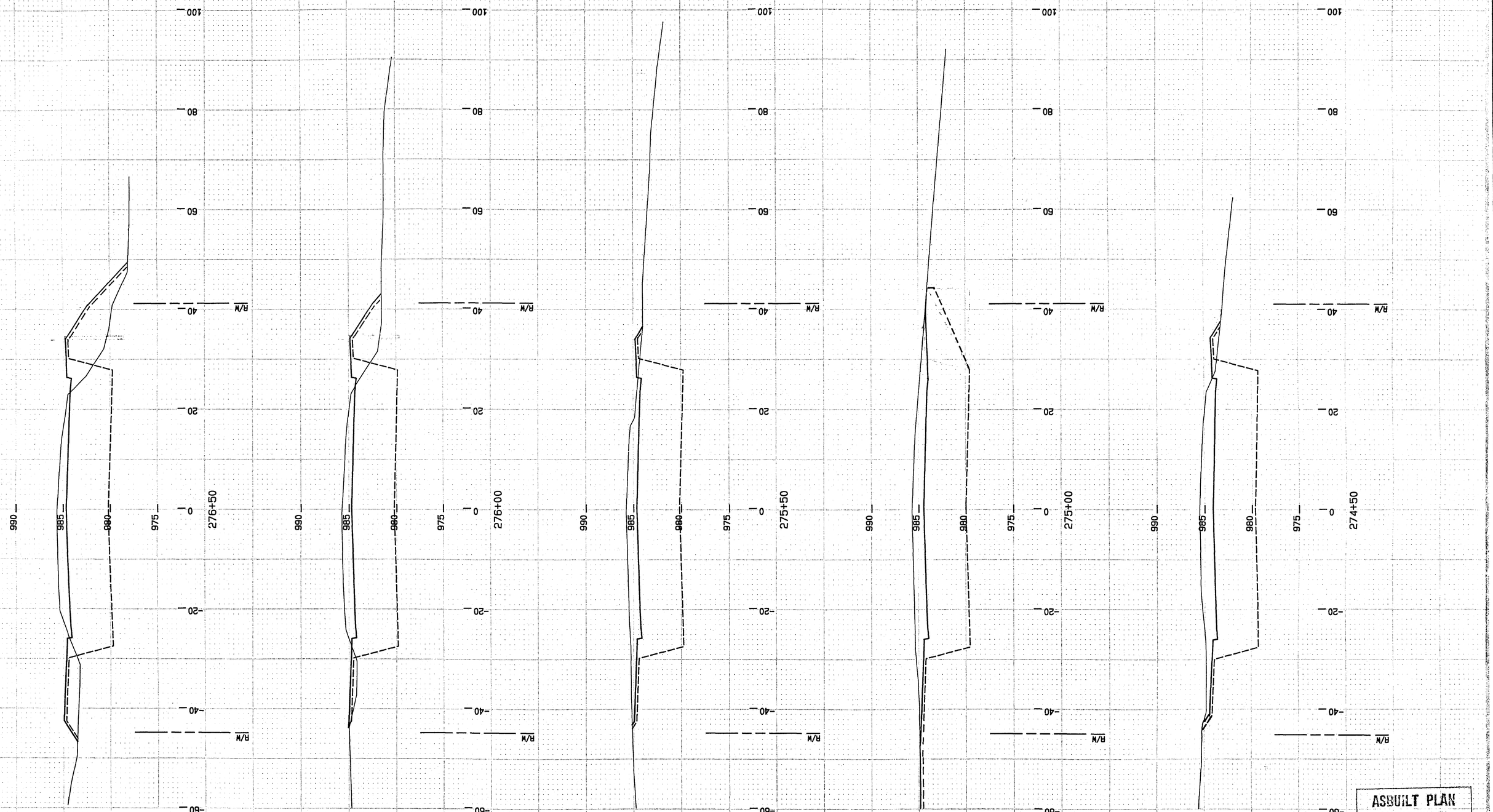

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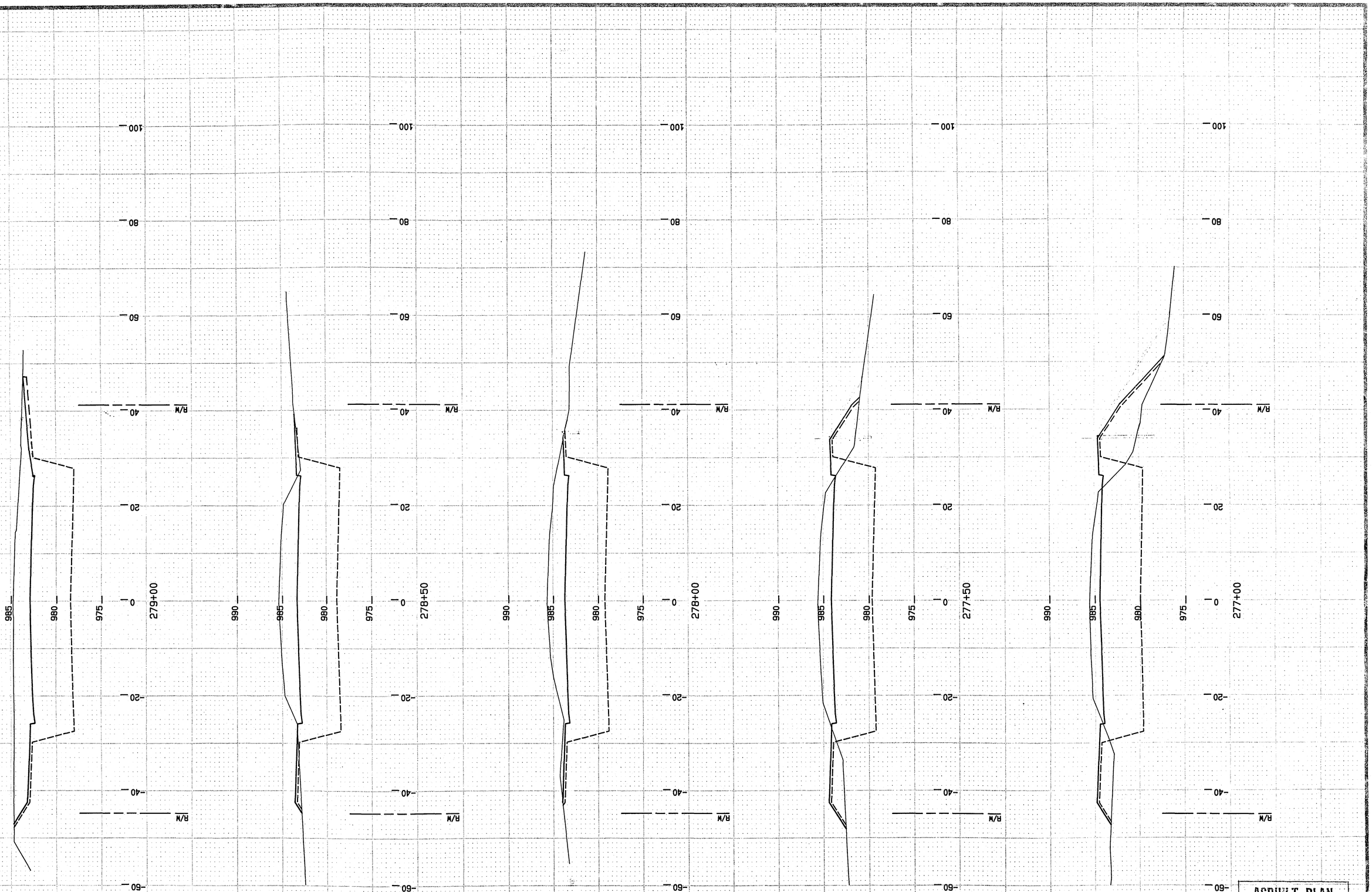

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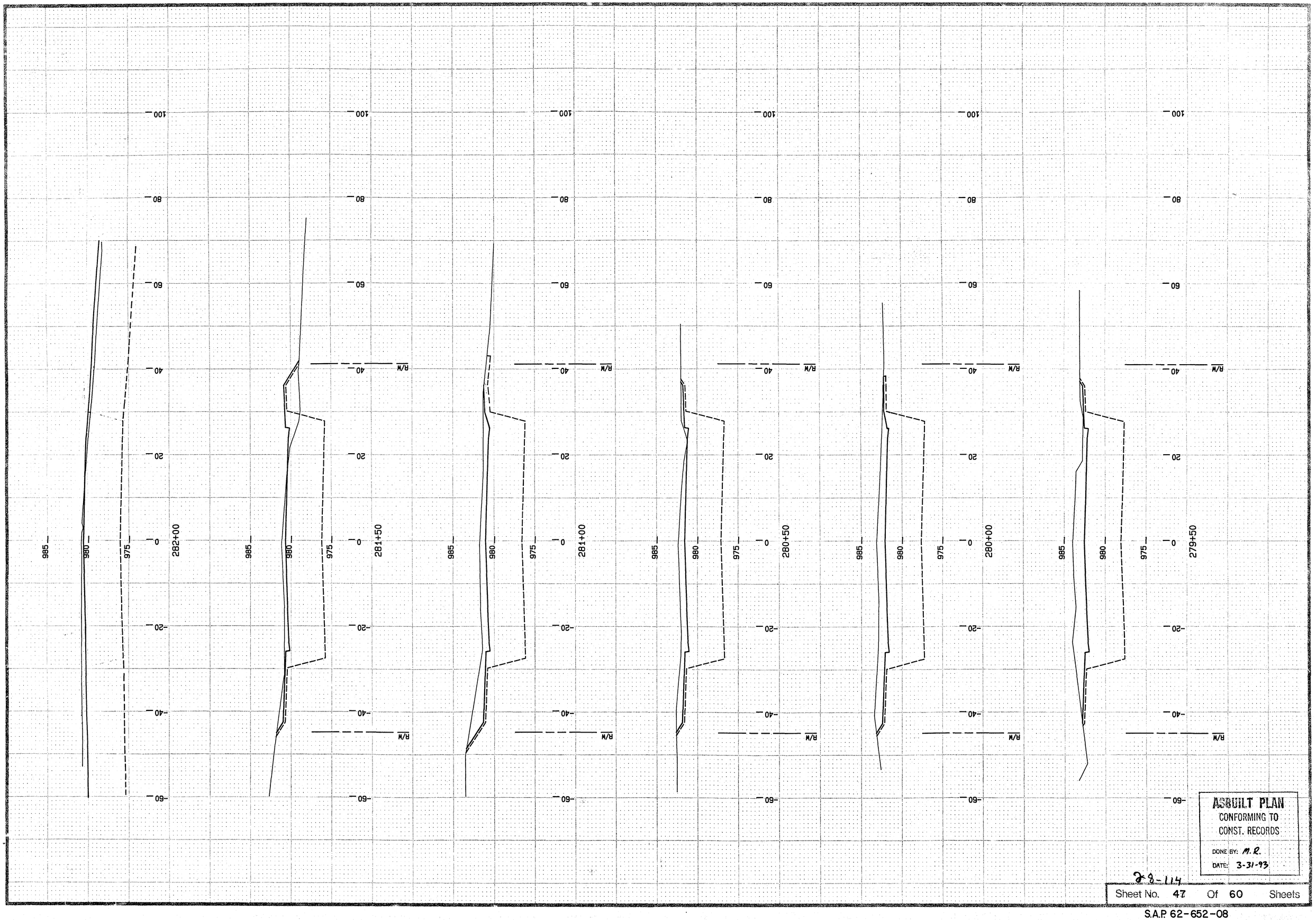

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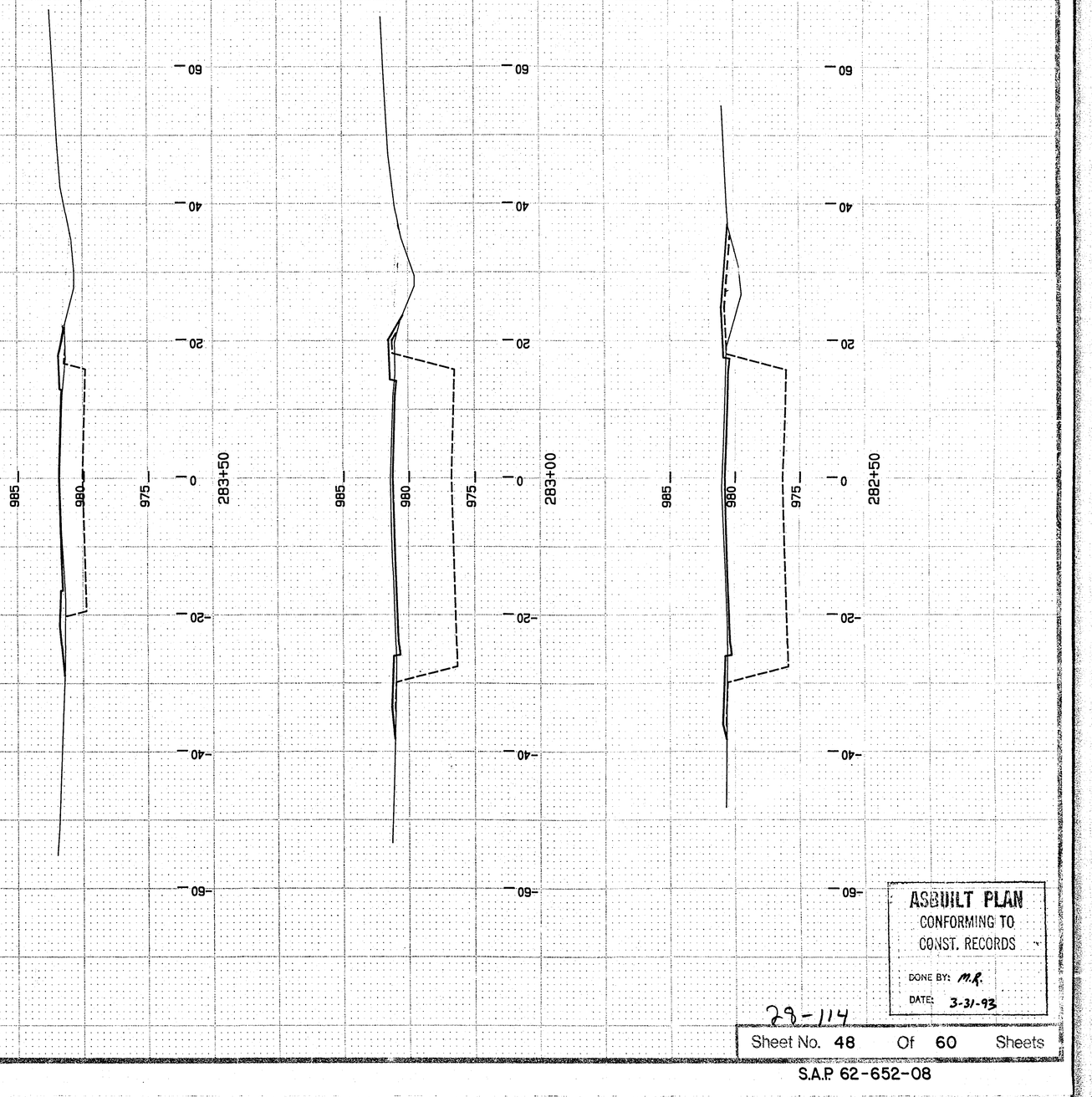
S.A.P. 62-652-08



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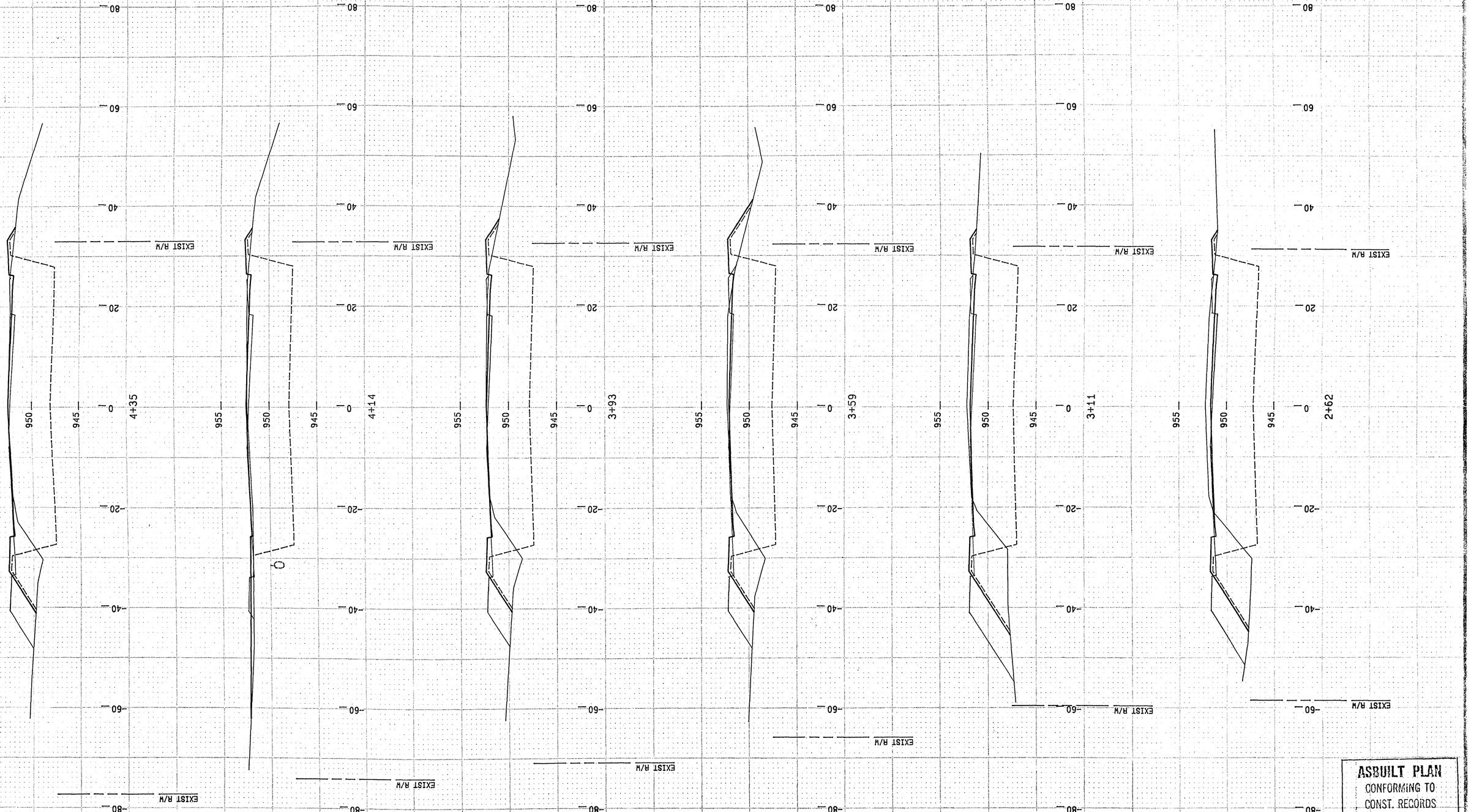

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DATE: 3-31-93

CO. RD. E.

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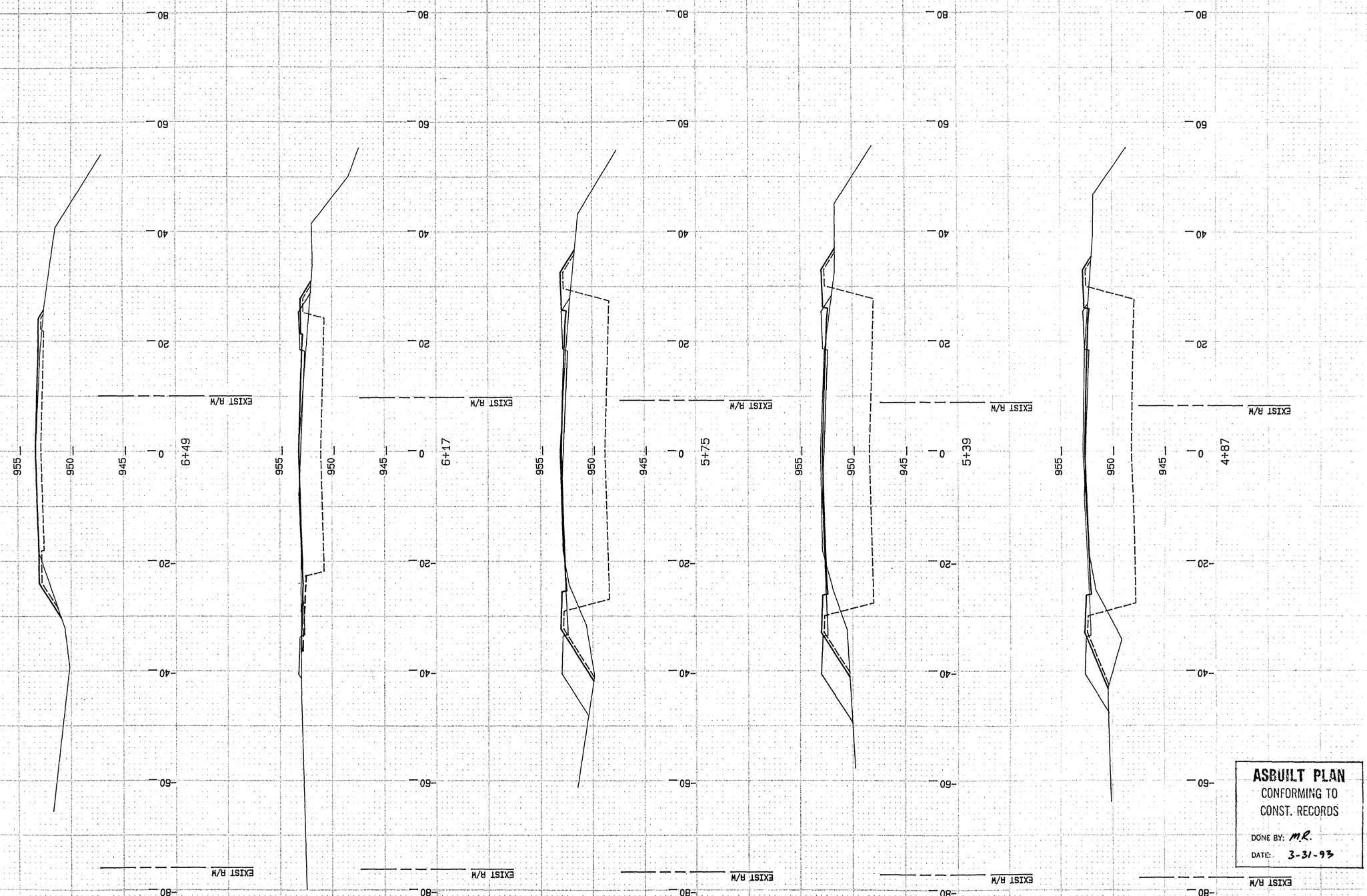
S.AP 62-652-07



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CO. RD. E.

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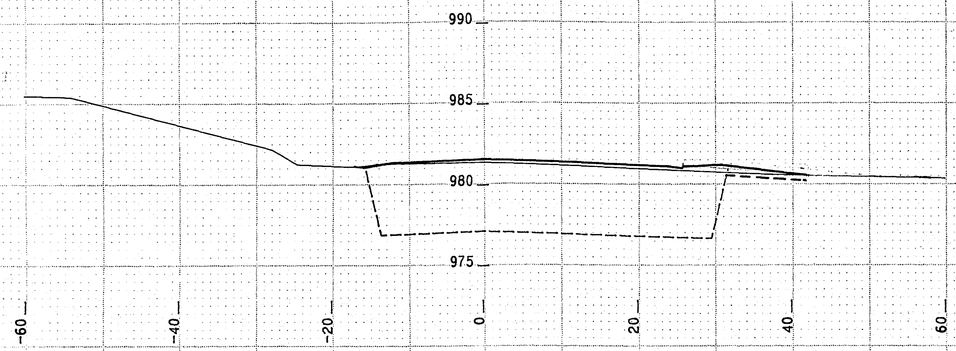
S.A.P. 62-652-07



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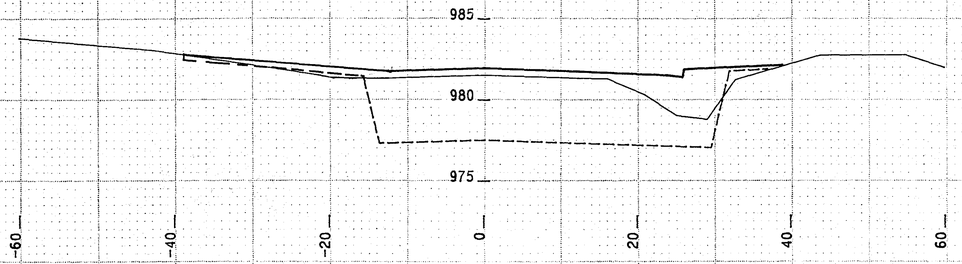

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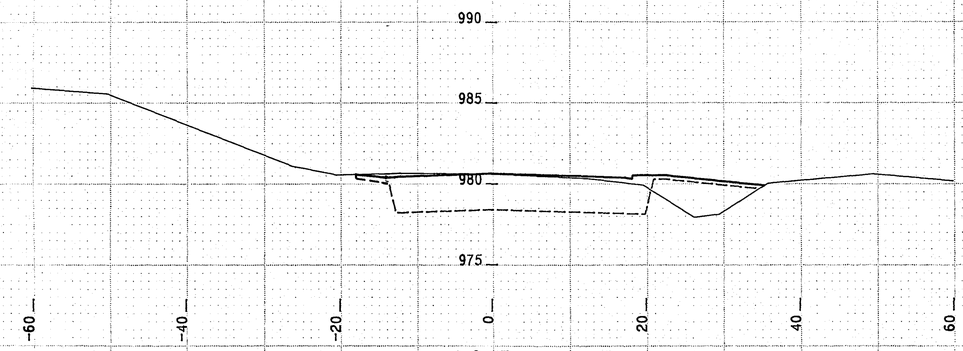

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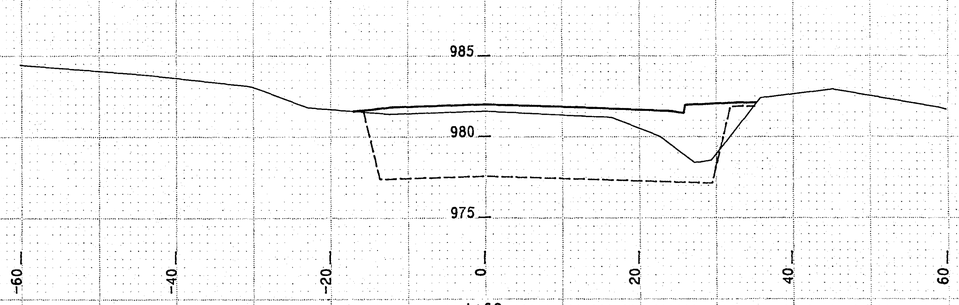

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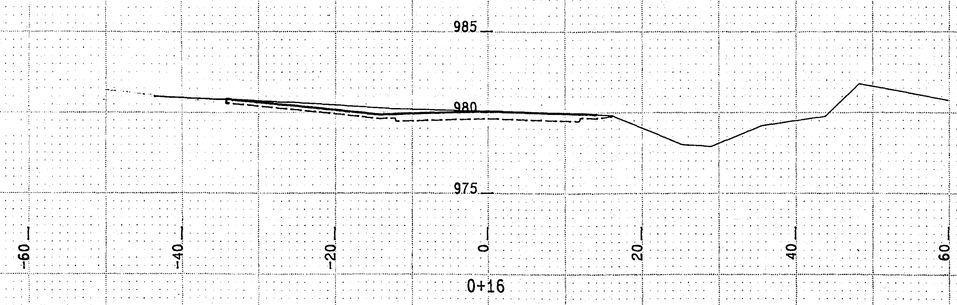

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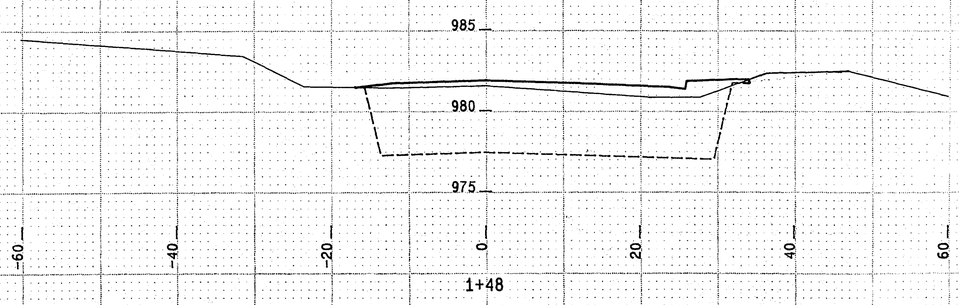

1+48

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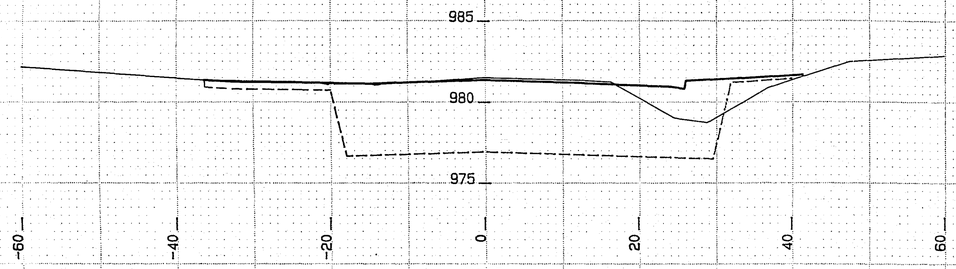

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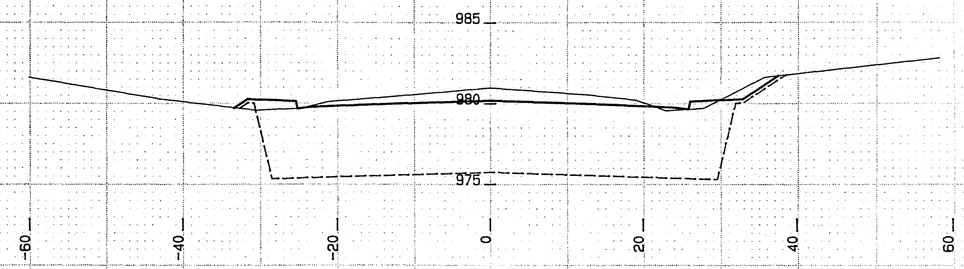

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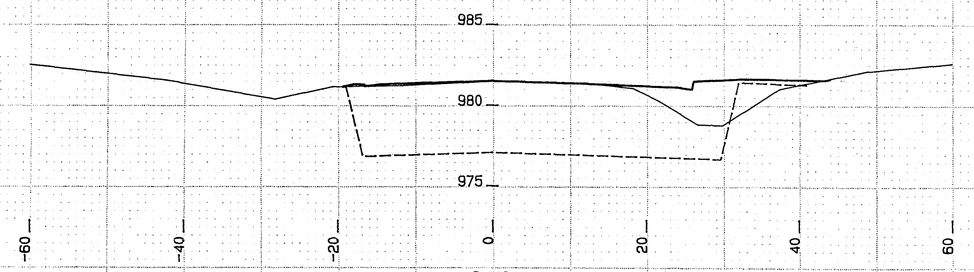

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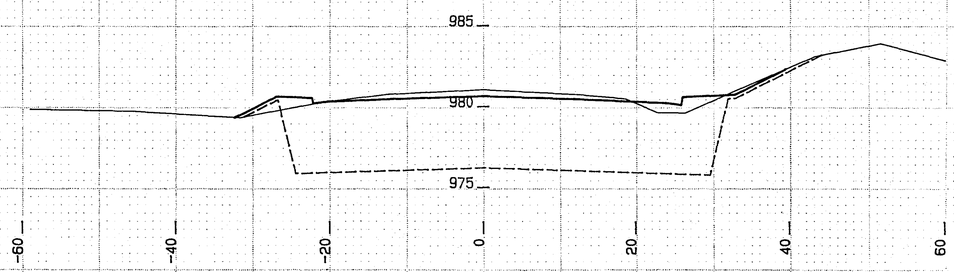
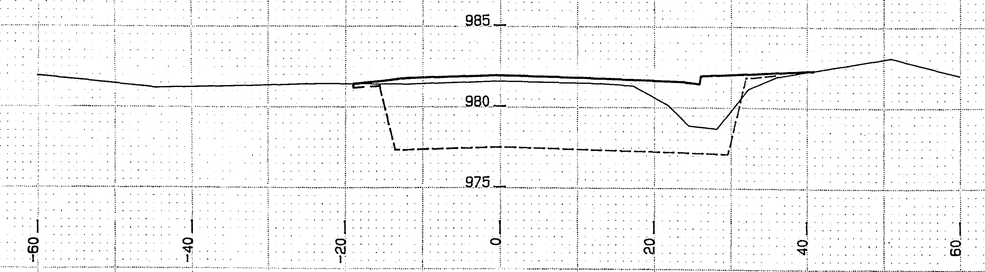


3+41



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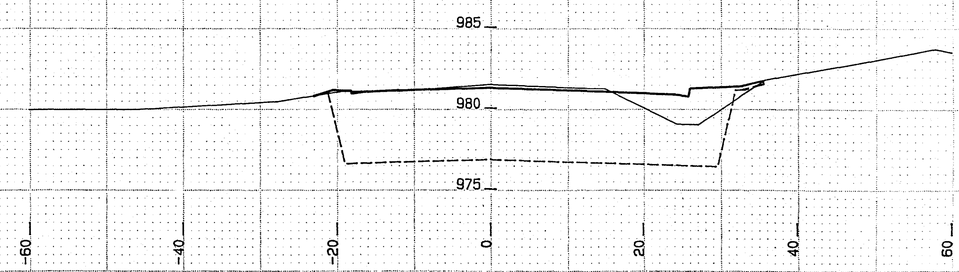

2+71

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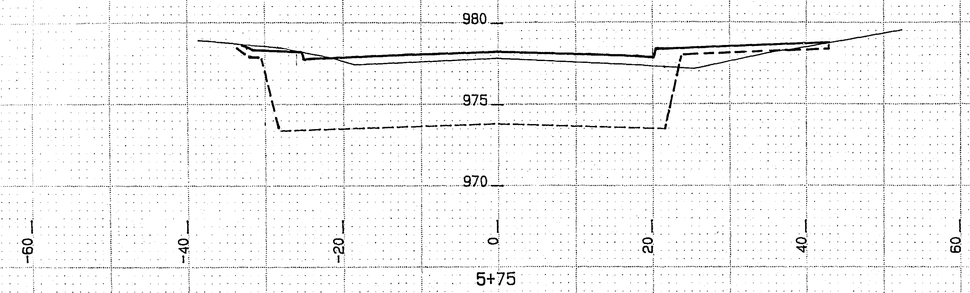

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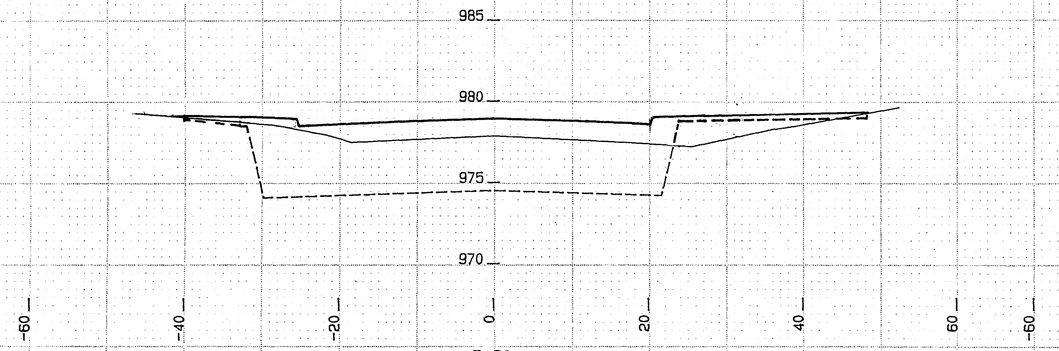

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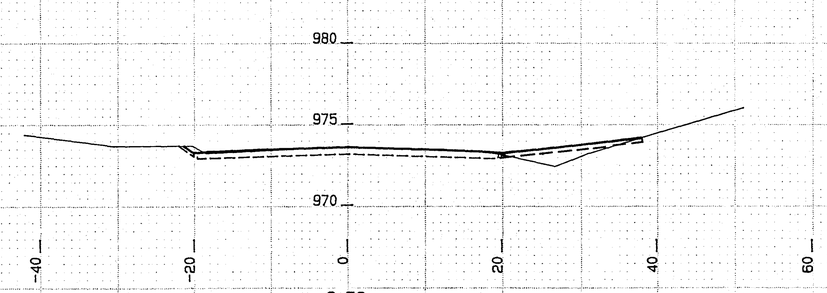

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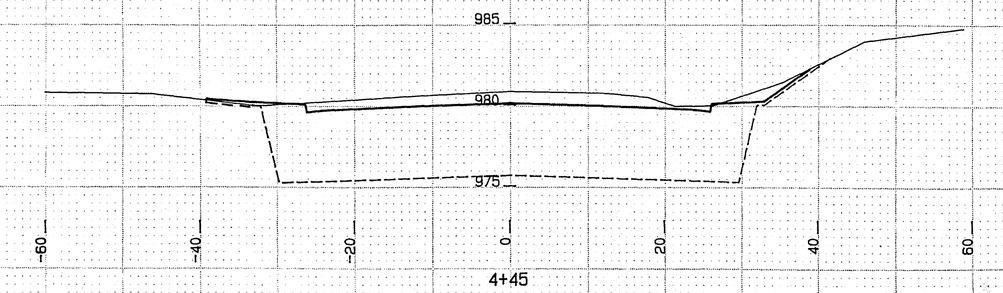

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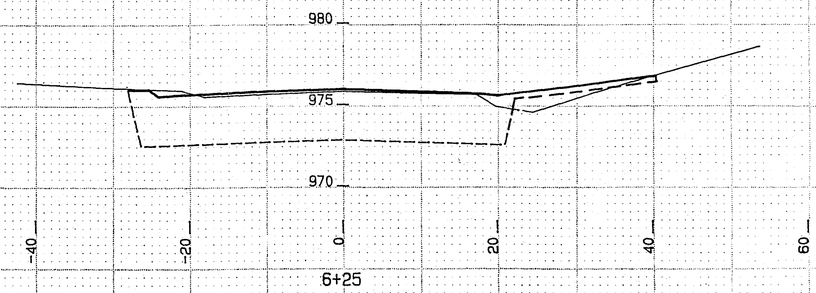

6+25

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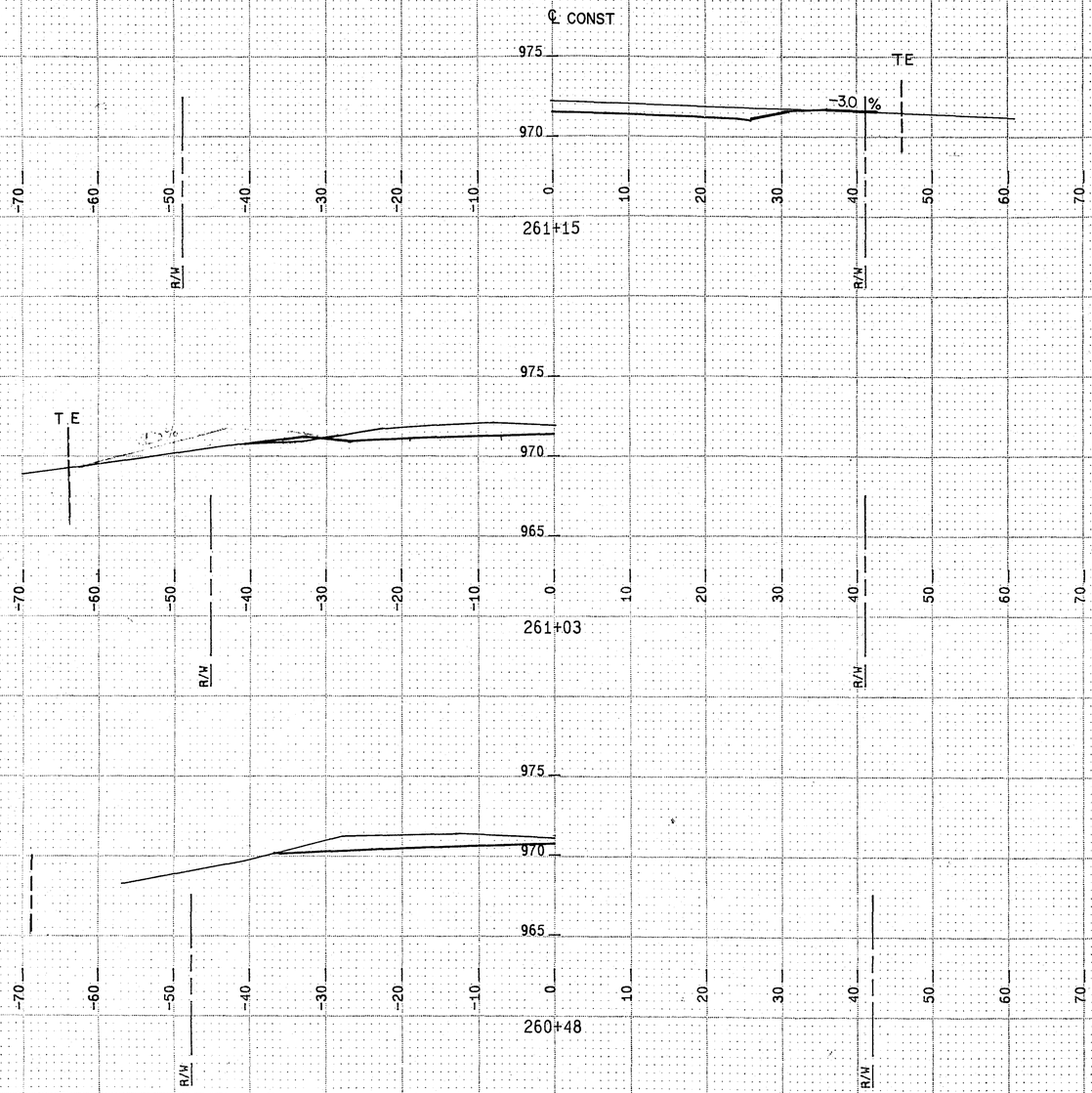

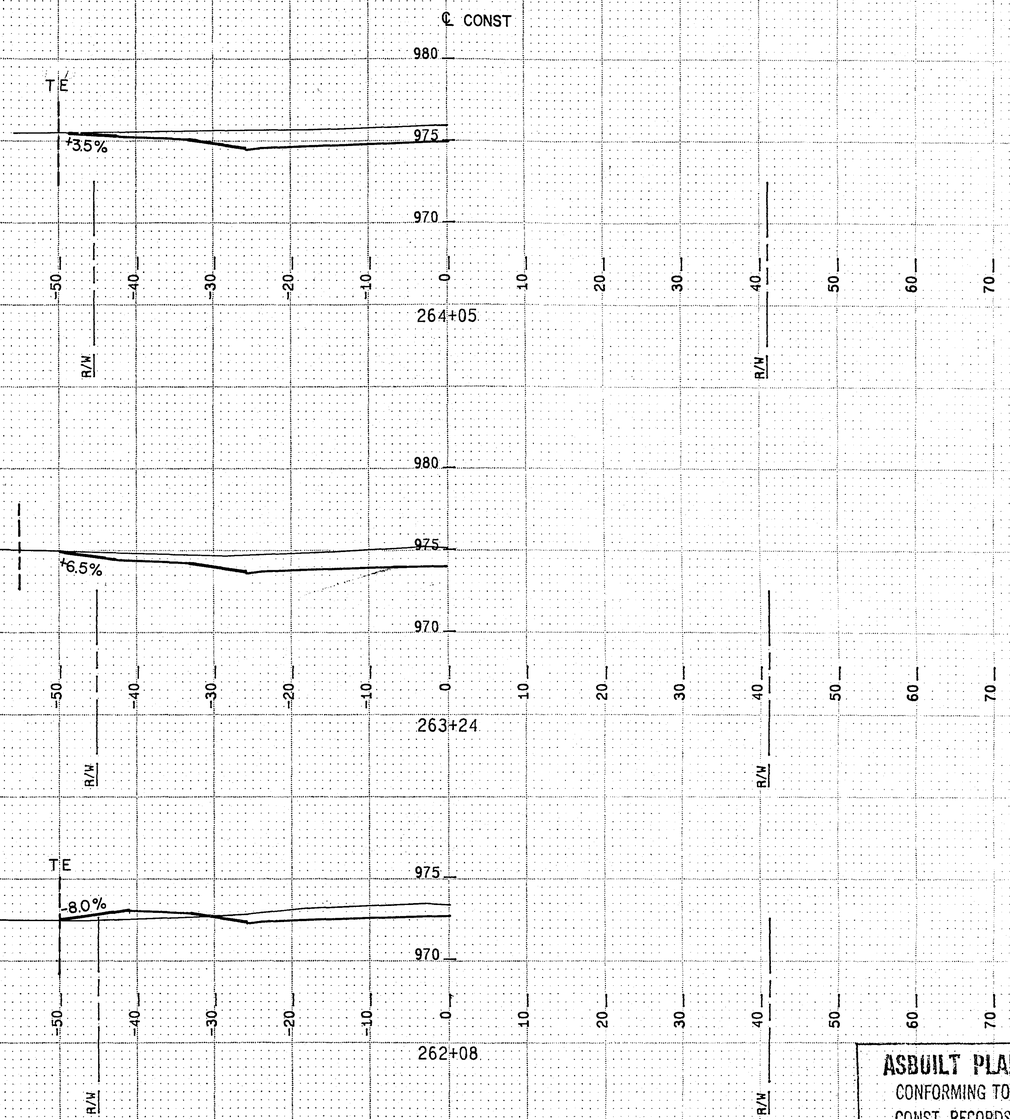

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VICTORIA STREET
DRIVEWAY PROFILES

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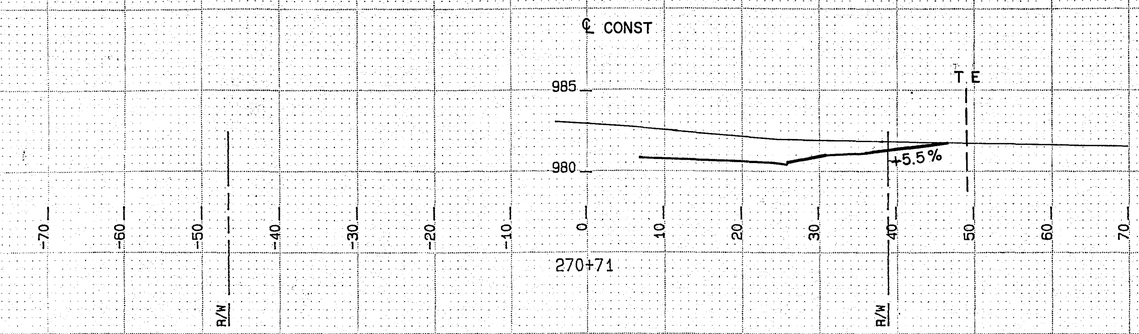

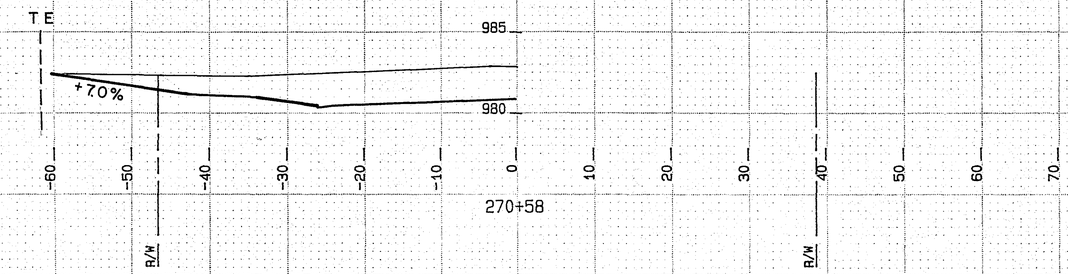

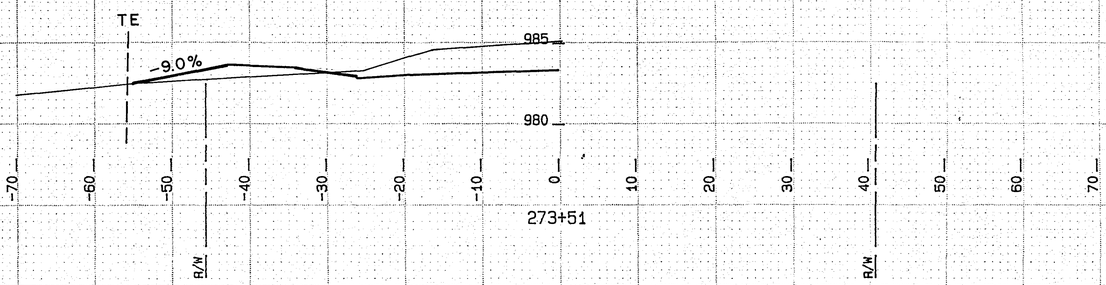

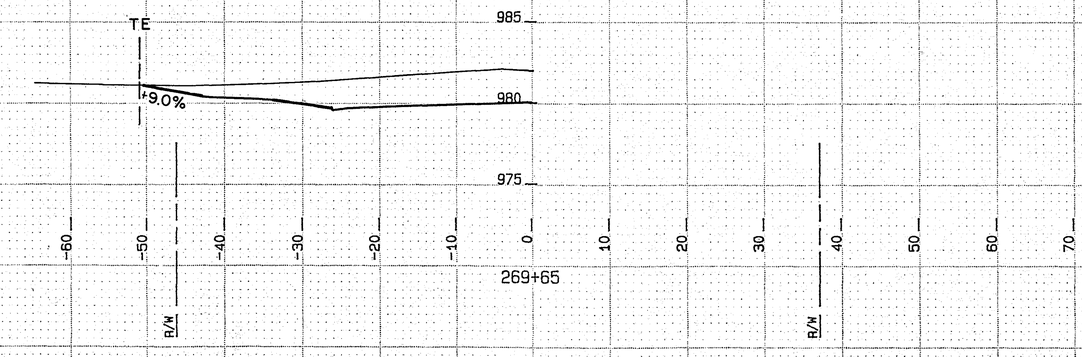

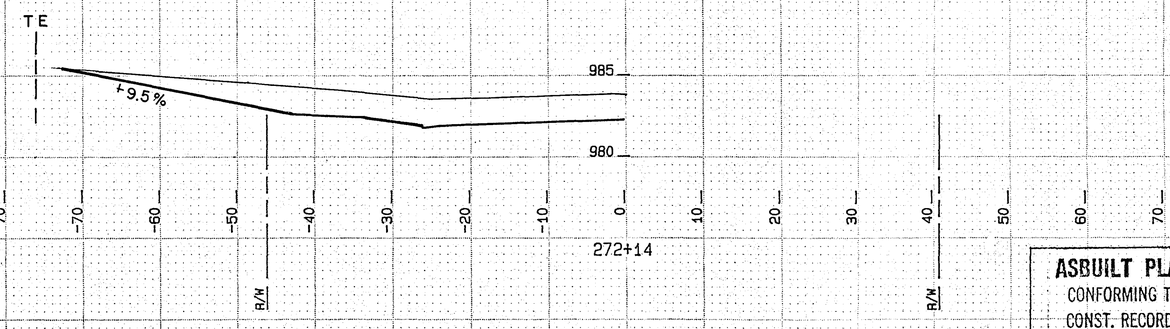

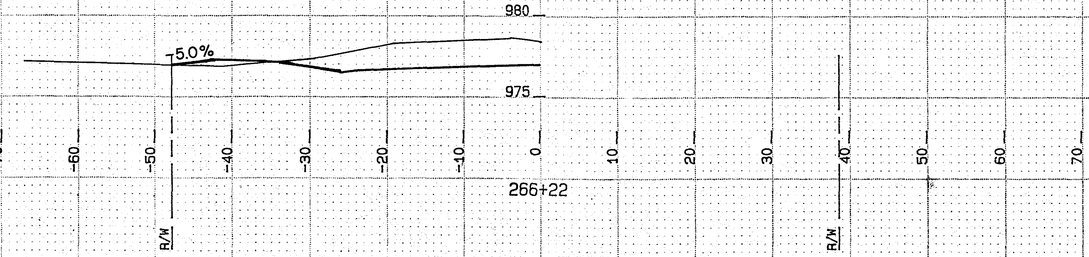

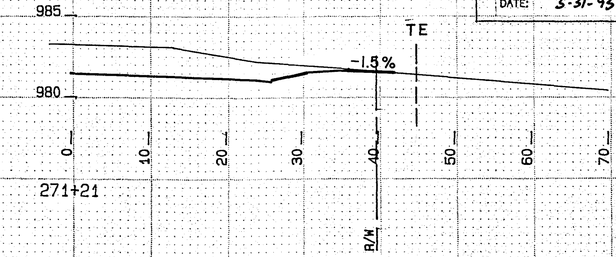

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VICTORIA STREET
DRIVEWAY PROFILES

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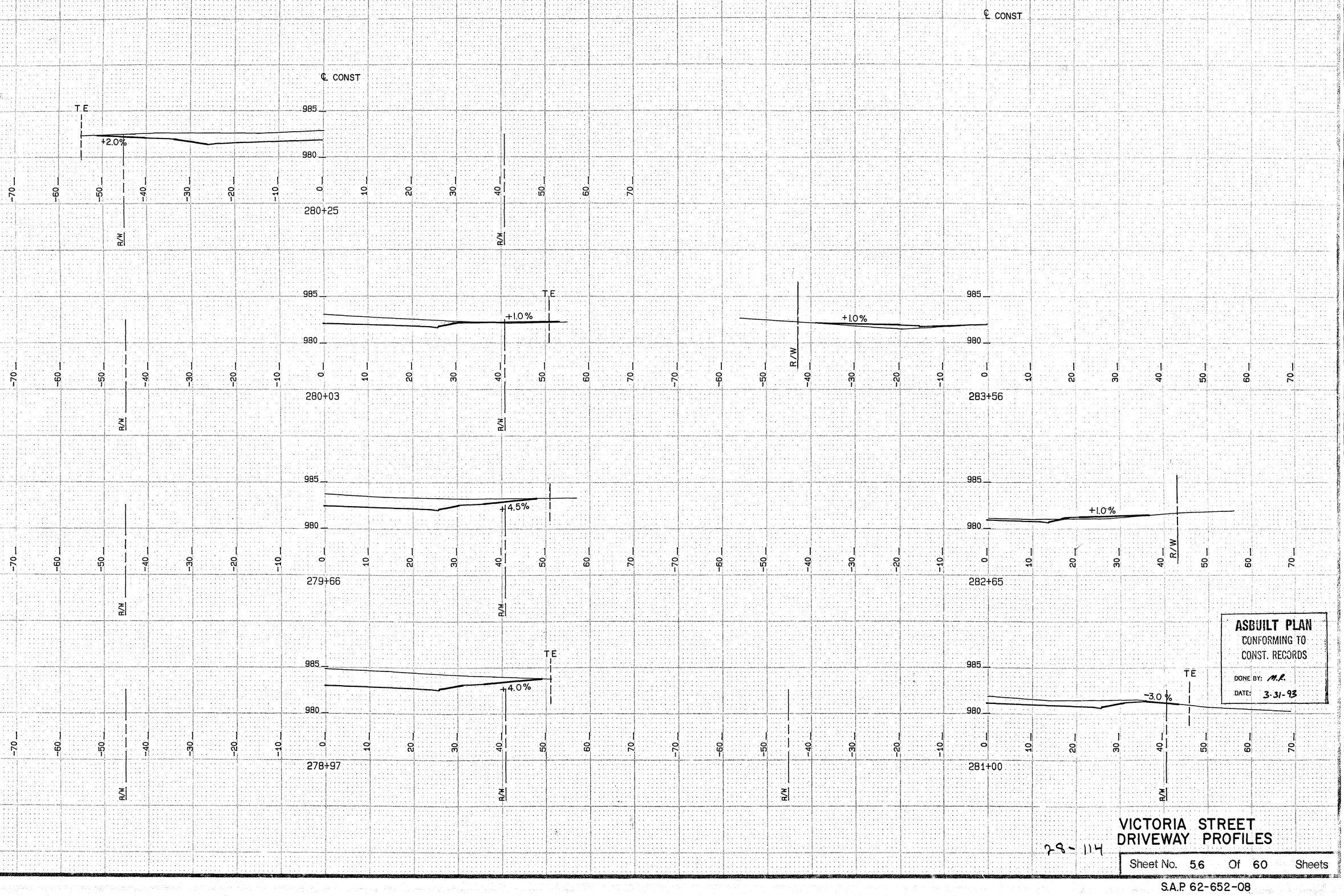

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VICTORIA STREET DRIVEWAY PROFILES

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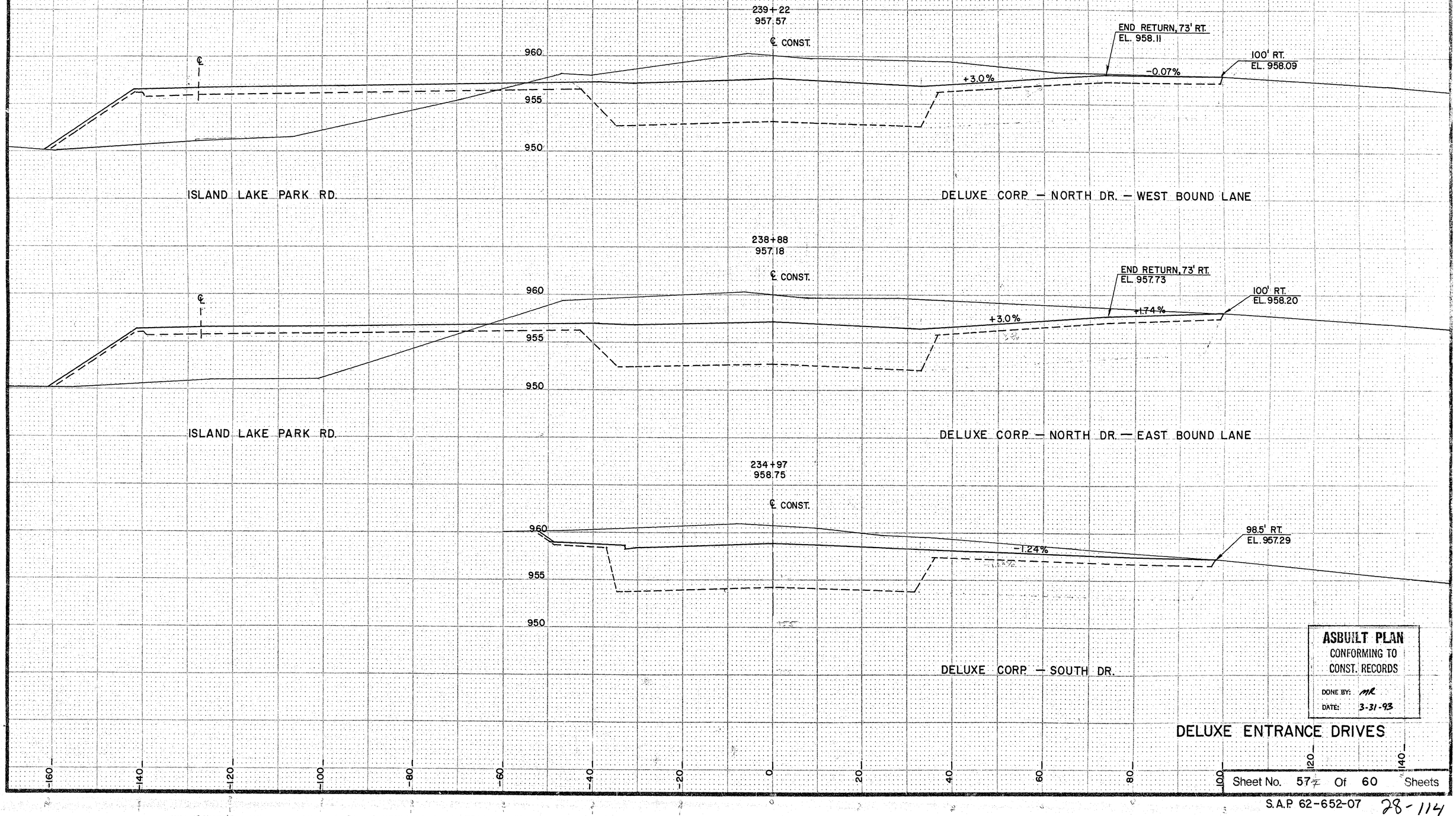

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DELUXE ENTRANCE DRIVES

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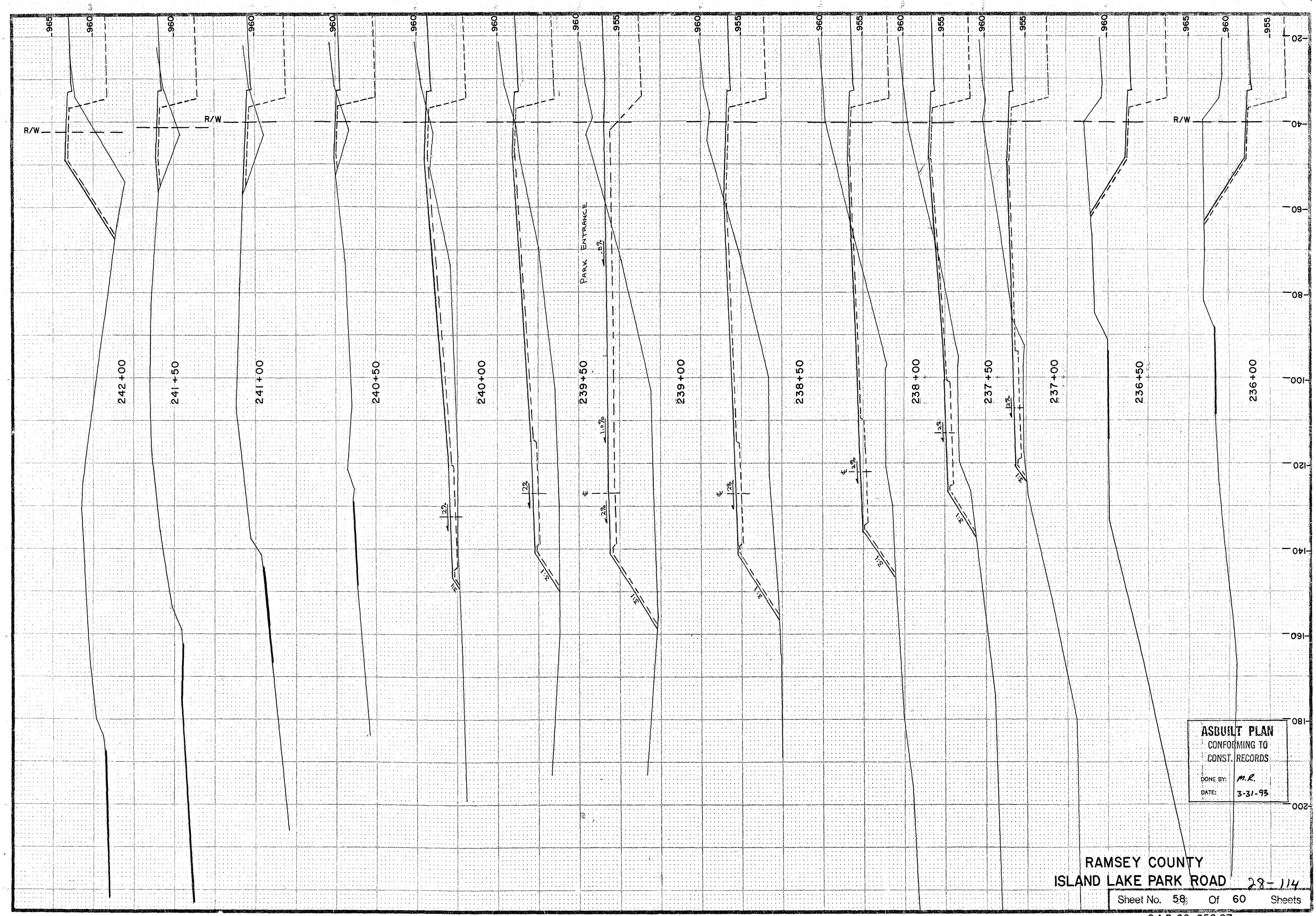

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RAMSEY COUNTY
ISLAND LAKE PARK ROAD 28-114

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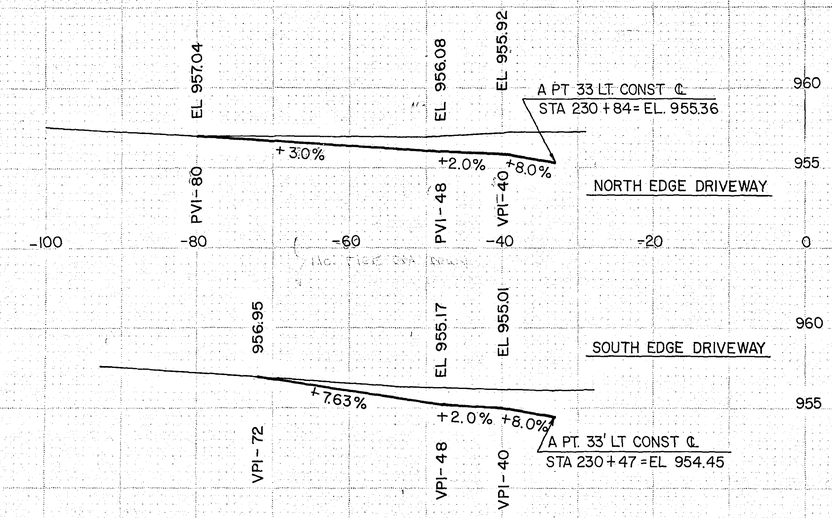
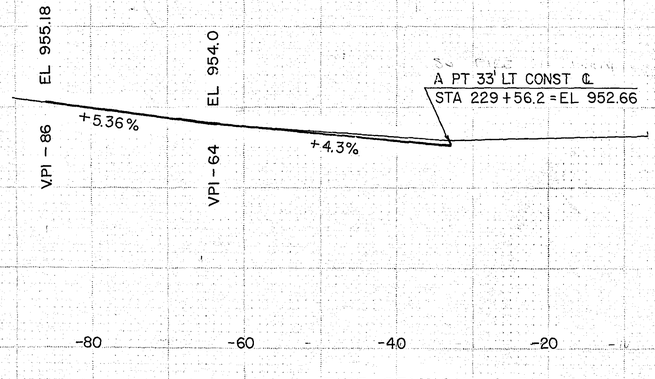
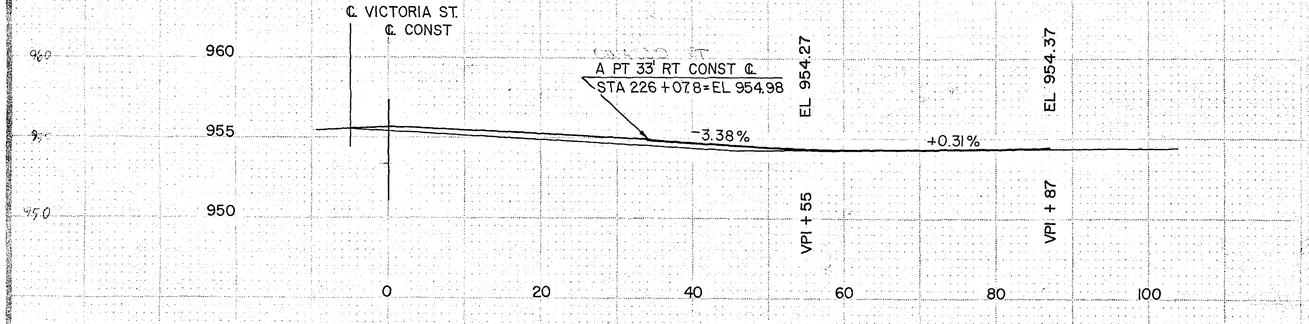


FIRE STATION – N. DR.



FIRE STATION – S. DR.



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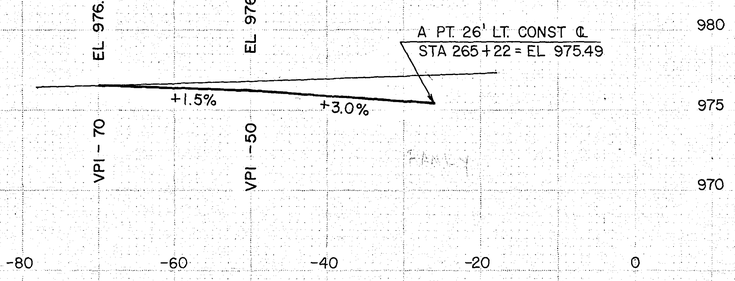
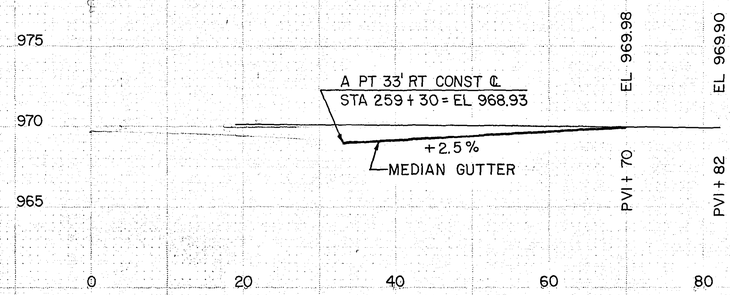


RANDY AVE.



MICRO COMPONENT TECHNOLOGY INC.

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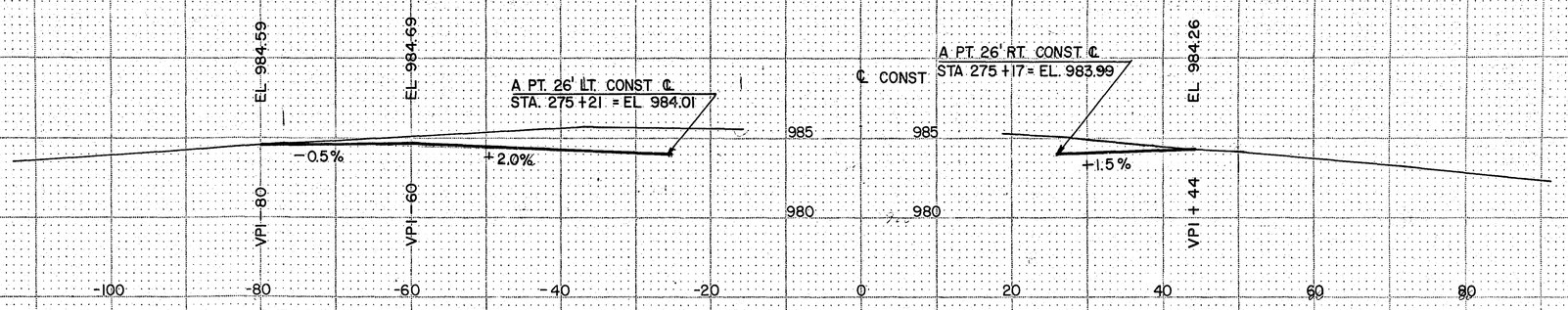
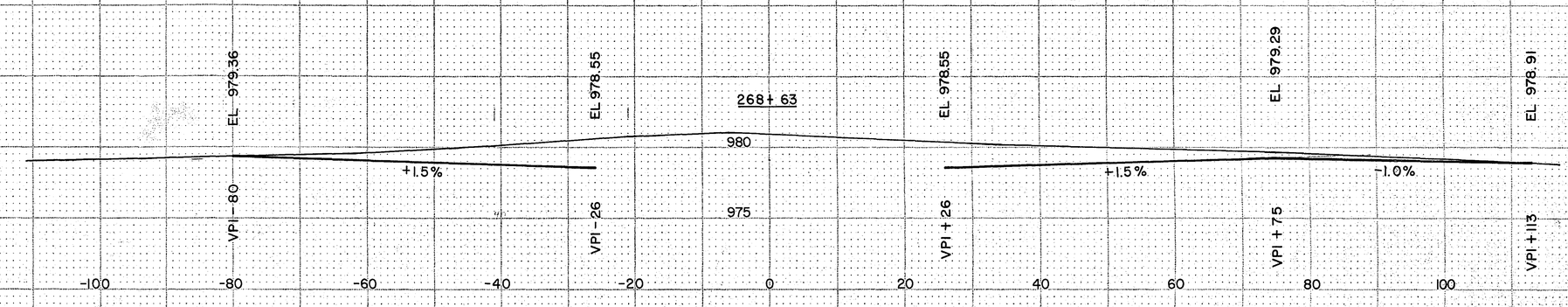
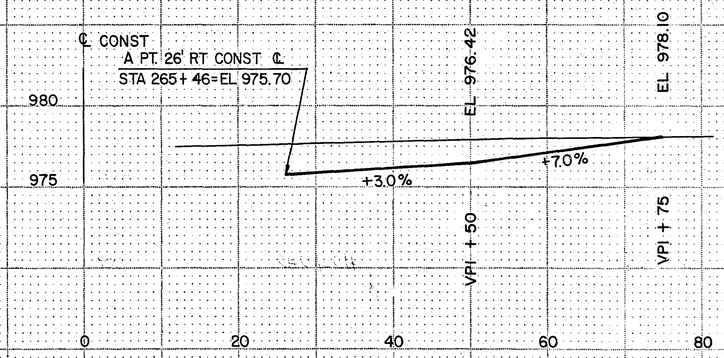


CRYSTAL AVE.

VALLEY VIEW CT.



GRAMSIE RD.



SHEPHERD OF THE HILLS CHURCH

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INTERSECTION PROFILES

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