

PLAN SYMBOLS

STATE LINE
COUNTY LINE
TOWNSHIP OR RANGE LINE
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
PROPERTY LINE
CORPORATE OR CITY LIMITS
RETAINING WALL
RAILROAD
RAILROAD RIGHT-OF-WAY
RIVER OF CREEK
CULVERT
GUARDRAIL
BARBED WIRE FENCE
WOVEN WIRE FENCE
CHAIN LINK FENCE
STONE WALL
HEDGE
RAILROAD CROSSING SIGN
CROSSING GATE
MEANDER CORNER
CONSTRUCTION LIMITS

MARSH
DECIDUOUS TREE
CONIFEROUS TREE
WOODS
CATCH BASIN
BRIDGE
IRON PIPE OR ROD
MONUMENT (STONE, CONCRETE OR METAL)
WOODEN HUB

UTILITY SYMBOLS

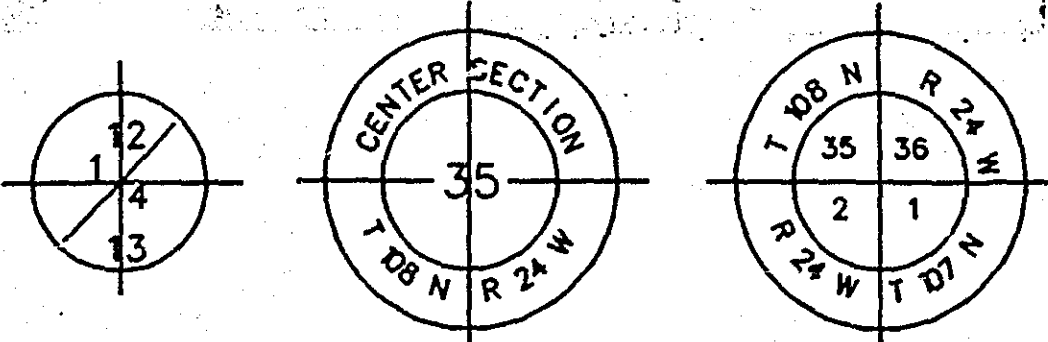
UTILITY POLE
GUY OR ANCHOR
STREET LIGHT
TELEPHONE PEDESTAL
GAS MAIN
WATER MAIN
TELEPHONE VAULT
ELECTRIC VAULT
BURIED TELEPHONE CABLE
BURIED ELECTRIC CABLE
SEWER SANITARY
SEWER STORM
SEWER MANHOLE
GATE VALVE
CONTROLLER CABINET
EXISTING HYDRANT
BURIED TV CABLE

FOR PLANS AND UTILITIES SYMBOLS SEE
MN/DOT TECHNICAL MANUAL.

-GOVERNING SPECIFICATIONS-

THE 1988 EDITION OF THE MINNESOTA DEPARTMENT
OF TRANSPORTATION "STANDARD SPECIFICATION
FOR CONSTRUCTION" AS AMENDED BY THE
JAN. 2, 1991 "SUPPLEMENTAL SPECIFICATIONS"
SHALL GOVERN.

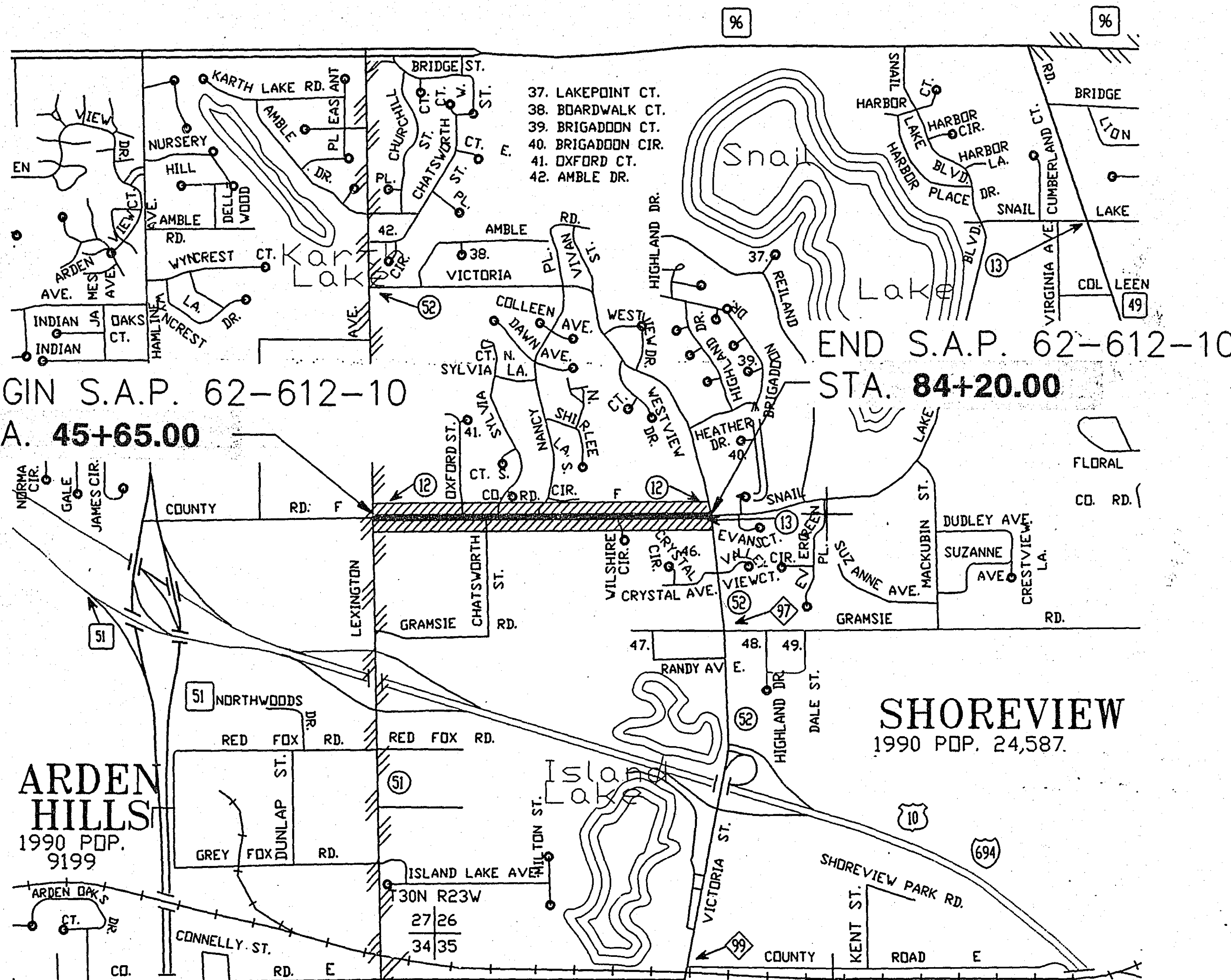
ALL TRAFFIC CONTROL DEVICES AND SIGNING
SHALL CONFORM TO THE MUTCD,
INCLUDING APPENDIX B, DATED NOV. 1992.



SCALES

PLAN
PROFILE HORIZ.
PROFILE VERT.
CROSS SECTIONS

GROSS LENGTH 3855.00 FEET 0.73 MILES
BRIDGE LENGTH
EXCEPTIONS 0.00 FEET 0.00 MILES
NET LENGTH 3855.00 FEET 0.73 MILES



DESIGN DESIGNATION

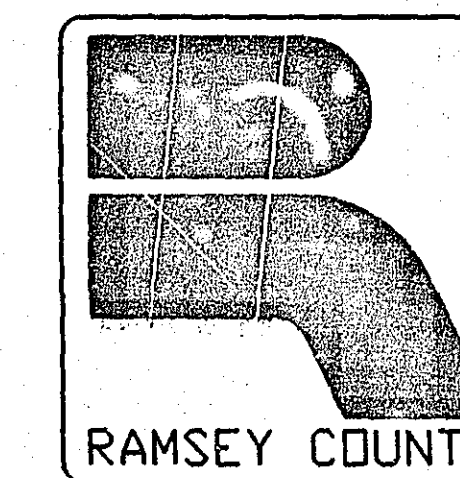
COUNTY ROAD F
LEXINGTON AVE. TO CHATSWORTH ST. CHATSWORTH ST. TO VICTORIA AVE.

PRESENT ADT (1993)	5200	4300
PROJECTED ADT (2013)	7800	6500
FUNCTIONAL CLASS	ARTERIAL - LOW DENSITY	ARTERIAL - LOW DENSITY
TRAFFIC LANES	4	2
PARKING LANES	0	0
DESIGN LOAD	10 TON	10 TON
STABILOMETER "R" VALUE	18	18
Σ N18 25YEAR	1,338,000	1,338,000
DESIGN SPEED	40	40

BASED ON STOPPING DISTANCE
HEIGHT OF EYE: 3.50 FEET
HEIGHT OF OBJECT: 0.50 FEET

PLAN
CONFORMING TO
CONST. RECORDS

BY: MR
DATE: 3-21-95



RAMSEY COUNTY

DEPARTMENT OF PUBLIC WORKS

CONSTRUCTION PLAN FOR: GRADING, AGGREGATE BASE,
BITUMINOUS BASE & SURFACING, STORM SEWER, CONCRETE
CURB & GUTTER, UTILITY IMPROVEMENTS, & BITUMINOUS
OVERLAY.

COUNTY ROAD F

S.A.P. No. 62-612-10

BETWEEN: LEXINGTON AVE. AND VICTORIA AVE.

BEGINNING: AT A POINT 32.35± FEET EAST OF THE NORTHWEST
CORNER, SEC26, T30N, R23W

ENDING: AT A POINT 1349.19± FEET WEST OF THE NORTHEAST
CORNER, SEC26, T30N, R23W

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATED QUANTITIES, CONSTRUCTION NOTES
3	ESTIMATED QUANTITIES, STANDARD PLATES, INDEX TO TABULATIONS
4-5	TYPICAL SECTIONS
6-8	TABULATIONS
9	EXISTING UTILITY CHART
10	EXISTING STORM SEWER CHART
11	PROPOSED STORM SEWER CHART
12-13	STORM SEWER DETAILS
14	ENTRANCE, PEDESTRIAN RAMP DETAILS
15	CONCRETE CROSS-WALK DETAIL
16	ALIGNMENT
17-23	PLAN AND PROFILE SHEETS
24-47	X-SECTIONS
48-50	SIGNAL REVISIONS

DESIGN SQUAD *[Signature]* DATE 3/4/94
DRAWN BY *[Signature]* DATE 3/4/94
CHECKED BY *[Signature]* DATE

RAMSEY COUNTY

RECOMMENDED FOR APPROVAL *[Signature]* LKF DATE 3/21/94
CONST. ENGR.
RECOMMENDED FOR APPROVAL *[Signature]* KMR DATE 3/4/94
DESIGN ENGR.
RECOMMENDED FOR APPROVAL *[Signature]* TAN DATE 3/4/94
ENVIRONMENTAL
RECOMMENDED FOR APPROVAL *[Signature]* PAB DATE 3/4/94
MAINT. ENGR.
RECOMMENDED FOR APPROVAL *[Signature]* PMM DATE 3/4/94
PLANNER
RECOMMENDED FOR APPROVAL *[Signature]* JAB DATE 3-4-94
R.O.W. ENGR.
RECOMMENDED FOR APPROVAL *[Signature]* DES DATE 3/10/94
TRAFFIC ENGR.
RECOMMENDED *[Signature]* COORDINATING ENGR. DATE
RECOMMENDED *[Signature]* PROGRAM ENGR. DATE
RECOMMENDED *[Signature]* ASSISTANT COUNTY ENGR. DATE

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

[Signature] David S. Bhole REG. NO. 14257 DATE 3/4/94

RECOMMENDED FOR APPROVAL *[Signature]* DATE 7-7-94
COUNTY ENGINEER

APPROVED *[Signature]* Charles A. Wengert DATE 5/17/94
CHAIR OF THE RAMSEY COUNTY BOARD

APPROVED *[Signature]* Karl P. Kaal DATE 3-10-94
CITY OF SHOREVIEW

APPROVED *[Signature]* CITY OF DATE

APPROVED *[Signature]* CITY OF DATE

APPROVED *[Signature]* CITY OF DATE

MINNESOTA DEPARTMENT OF TRANSPORTATION

RECOMMENDED FOR APPROVAL *[Signature]* DATE 4-27-94
METRO-ASSISTANT DIVISION ENGINEER - STATE AID

RECOMMENDED FOR APPROVAL *[Signature]* DATE
STATE AID PLANS & SPEC. ENGR.

RECOMMENDED FOR APPROVAL *[Signature]* DATE
TRAFFIC ENGINEER

APPROVED *[Signature]* DATE 5-13-94
STATE AID ENGINEER

PLAN REVISIONS		
DATE	SHEET NO. & DESCRIPTION	BY

S.A.P. No. 62-612-10

Sheet No. 1 of 50 Sheets

28-132

L:\COPDF\SEQ 04/20/94

STATEMENT OF ESTIMATED QUANTITIES

CHART	NOTE	ITEM NO.	CONTRACT ITEM	UNIT	TOTAL ESTIMATED QUANTITIES	TOTAL FINAL QUANTITIES	S.A.P. 62-612-10 RAMSEY COUNTY		25% S.A.P. 62-612-10 75% CITY OF SHOREVIEW		CITY OF SHOREVIEW 100% CITY OF SHOREVIEW		STORM SEWER 100% S.A.P. 62-612-10	
							ESTIMATED QUANTITIES	FINAL QUANTITIES	ESTIMATED QUANTITIES	FINAL QUANTITIES	ESTIMATED QUANTITIES	FINAL QUANTITIES	ESTIMATED QUANTITIES	FINAL QUANTITIES
		2021.501	MOBILIZATION	LS	1		1							
A		2101.502	CLEARING	TREE	69		69							
A		2101.507	GRUBBING	TREE	66		66							
B		2104.501	REMOVE CM PIPE SEWER	LF	116		116							
C		2104.501	REMOVE R.C. PIPE SEWER	LF	197		197							
D		2104.501	REMOVE CONCRETE CURB & GUTTER	LF	656		656							
E		2104.501	REMOVE BITUMINOUS CURB	LF	545		545							
F		2104.503	REMOVE BITUMINOUS PATH	SF	2790		2790							
G		2104.505	REMOVE CONCRETE PAVEMENT	SY	128		128							
H		2104.509	REMOVE MANHOLES, CB OR SURFACE DRAINS	EACH	4		4							
I		2104.511	SAWING CONCRETE PAVEMENT	LF	62		62							
J		2104.513	SAWING BITUMINOUS PAVEMENT	LF	1024		1024							
K	(1)	2104.521	SALVAGE CHAIN LINK FENCE	LF	1000		1000							
AC		2104.523	SALVAGE CASTING ASSEMBLY	EACH	9		9							
		2104.523	SALVAGE TIMBER WALL	EACH	1		1							
L		2105.501	COMMON EXCAVATION (EV)	CY	(P)23592		18431		5161					
L		2105.505	MUCK EXCAVATION (EV)	CY	7134		1660		5474					
L		2105.521	GRANULAR BORROW (LV)	CY	6061		1654		4407					
L		2105.522	SELECT GRANULAR BORROW (LV)	CY	17246		14192		3054					
		2105.525	TOPSOIL BORROW (LV)	CY	5689		5689							
	(2)	2130.501	WATER	(M)GAL	50		36		14					
M		2211.503	AGGREGATE BASE CL.6 PLACED	CY	(P) 4050		3143		535		372			
N		2232.501	MILL BITUMINOUS SURFACE 1 1/2"	SY	960		960							
O		2340.508	TYPE 41 WEARING COURSE MIXTURE	TON	1477		1246		231					
O	(3)	2340.508	TYPE 31 WEARING COURSE MIXTURE	TON	393		128				265			
O		2340.510	TYPE 41 BINDER COURSE MIXTURE	TON	1477		1246		231					
O	(3)	2340.510	TYPE 31 BINDER COURSE MIXTURE	TON	393		128				265			
O		2340.514	TYPE 31 BASE COURSE MIXTURE	TON	3940		3322		618					
O	(5)	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	2925		2342		422		161			
P		2503.541	15" R.C. PIPE SEWER DES. 3006 CL V	LF	2025							2025		
P		2503.541	18" R.C. PIPE SEWER DESIGN 3006 CL 5	LF	466							466		
P		2503.541	21" R.C. PIPE SEWER DESIGN 3006 CL 5	LF	397							397		
P		2503.541	24" R.C. PIPE SEWER DESIGN 3006 CL 5	LF	8							8		
P		0501.602	TRASH GUARD FOR 18" RC PIPE APRON	EACH	1							1		
P		2501.515	18" R.C. PIPE APRON	EACH	1							1		
R		0503.602	CONNECT TO INPLACE SANITARY SEWER SERVICE	EA	4				4					
		0503.603	8" PVC SANITARY SEWER	LF	708				708					
AA		0503.605	4" POLYSTYRENE INSULATION	SY	71		71							
Q		2502.541	4" PERFORATED P.E. DRAIN PIPE	LF	5250		5250							
		0502.602	CONNECT TO EXISTING PIPE DRAIN	LF	10		10							
R		0503.603	REPLACE SANITARY SEWER SERVICE	LF	100						100			
S		0504.602	ADJUST GATE VALVE BOX	EACH	17		17							
T		0504.602	RELOCATE HYDRANT ASSEMBLY	EACH	8		8							
T		0504.602	ADJUST HYDRANT	EACH	1		1							
U		0504.602	CONNECT TO EXISTING WATERMAIN	EACH	5		5							
U		0504.603	8" D.I.P. WATERMAIN, CLASS 53	LF	1485		1110				375			
V		0504.602	ADJUST CURB STOP BOX	EACH	12		12							
V		0504.602	ADJUST CURB STOP	EACH	2		2							
V		0504.602	8" GATE VALVE AND BOX	EACH	3		3							
V		0504.602	1" CORPORATION STOP	EACH	5		5							
V		0504.603	1" TYPE K COPPER WATER SERVICE	LF	242		242							
P		2506.502	CONSTRUCT SURFACE DRAIN DESIGN (H)	EACH	1							1		
P		2506.502	CONSTRUCT SURFACE DRAIN DESIGN (C OR G)	EACH	5							5		
P		2506.502	CONSTRUCT MANHOLE DESIGN (C OR G)	EACH	4							4		
	(6)	2506.502	CONSTRUCT MANHOLE DESIGN (A OR F)	EACH	1					1				
P		2506.502	CONSTRUCT CATCH BASIN DES. SP-2	EACH	17							17		
P		2506.502	CONSTRUCT CATCH BASIN DES. SP-2-48	EACH	4							4		
P		2506.502	CONSTRUCT CATCH BASIN DES. LP-4	EACH	6							6		
P		2506.502	CONSTRUCT CATCH BASIN DES. LP-12	EACH	1							1		
AB,AC		2506.511	RECONSTRUCT MANHOLE	LF	58.5		21					37.5		
AB		2506.516	CASTINGS ASSEMBLIES	EACH	4							4		
AB,AC		2506.521	INSTALL CASTINGS	EACH	8		4					4		
AB,AC		2506.522	ADJUST FRAME & RING CASTING	EACH	10		6					4		

AS-BUILT PLAN
CONFORMING TO
CONST. RECORDS
DRAWN BY: MR
DATE: 3-21-95

CONSTRUCTION NOTES

- THE CONTRACTOR SHALL COOPERATE WITH RAMSEY COUNTY AS RELATES TO PERPETUATING MONUMENTATION. ADVANCE NOTICE OF ANY DISTURBANCE OF MONUMENTS SHOULD BE MADE TO THE RAMSEY COUNTY SURVEYORS OFFICE AT 298-5278.
- THE CONTRACTOR SHALL OBTAIN FROM THE UTILITY COMPANIES THE EXACT LOCATION OF ANY UNDERGROUND UTILITIES WHICH MAY EXIST WITHIN, OR ADJACENT TO, THE CONSTRUCTION AREA.
- PEDESTRIAN CURB RAMPS SHALL BE INSTALLED AT ALL STREET RADII. THE EXACT LOCATION SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- TOP OF "GRADING GRADE" IS DEFINED AS THE TOP OF THE EMBANKMENT MATERIAL OR THE BOTTOM OF THE AGGREGATE BASE COURSE.
- STRIP TOPSOIL FROM ALL AREAS TO BE DISTURBED BY CONSTRUCTION AND STOCKPILE (IF PRACTICAL) FOR REPLACEMENT LATER AS SLOPE DRESSING.
- PROVIDE FOR REMOVAL AND DISPOSAL OF (OUTSIDE THE CONSTRUCTION ZONE) ANY INPLACE SURFACING AND STRUCTURES THAT WILL INTERFERE WITH CONSTRUCTION.
- FROM A SOILS STANDPOINT, TRAFFIC SHALL BE MAINTAINED NO CLOSER THAN AN IMAGINARY 2:1 LINE DRAWN FROM THE BOTTOM OF ANY EXCAVATION INTERSECTING THE SURFACING.
- THE ORDINARY COMPACTION METHOD SHALL BE USED ON THIS PROJECT FOR GRADING AND BASE.
- PROVIDE DRAINAGE OUTLETS FOR ALL SUBCUTS DURING CONSTRUCTION. DITCHES SHOULD BE DEEPER THAN SUBCUT TO PROVIDE OUTLET DRAINAGE.
- PROVIDE A TACK COAT, SPEC. 2357.2A, BETWEEN BITUMINOUS COURSES.
- WHERE THE PROPOSED SUBCUT IS LOCATED UNDER INPLACE BASE AND BITUMINOUS SURFACING OR CONCRETE PAVEMENT, THE ENDS OF SUBCUT SHALL BE VERTICAL FOR THE DEPTH OF THE BITUMINOUS OR CONCRETE AND 2:1 IN AGGREGATE BASE.
- TAPER ENDS OF SUBCUT TO A 20:1 SLOPE UNLESS OTHERWISE RECOMMENDED.
- UNSUITABLE GRADING MATERIAL SHALL CONSIST OF TOPSOIL, OTHER ORGANIC SOIL AND DEBRIS.
- SILT FENCE SHALL BE INSTALLED AT ALL FILL SLOPES AND MAY BE REQUIRED AT OTHER LOCATIONS DURING CONSTRUCTION AS DETERMINED BY THE ENGINEER. (SPEC. 2573, 3886, 1707 & 1803.5)

QUANTITY NOTES

- 1 INCLUDES DOUBLE VEHICULAR GATE & BARB WIRE SECURITY TOP
- 2 FOR DUST CONTROL AS DIRECTED
- 3 INCLUDES 28 TON BITUMINOUS PATH REPLACEMENT
- 4 INCLUDES 656 LF REPLACEMENT
- 5 INCLUDES 17 GAL. FOR BIT. PATH REPLACEMENT
- 6 SANITARY SEWER MANHOLE STA.76+04 21' LT. , 100% CITY OF SHOREVIEW

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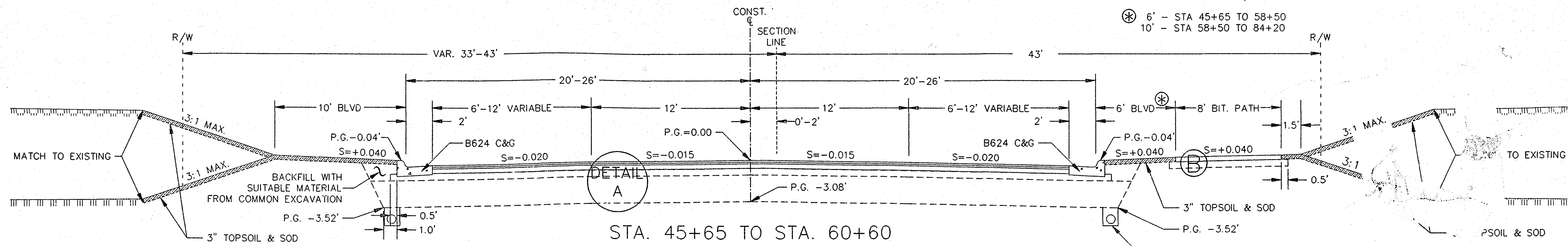
BASIS FOR ESTIMATED QUANTITIES	
2340.XXX	BITUMINOUS MIXTURES ESTIMATED AT 110 LBS/SQ.YD./INCH OF THICKNESS.
2357.502	BITUMINOUS MATERIAL FOR TACK COAT ESITMATED AT 0.05 GAL./SQ.YD.
2575.502	SEED, MIXTURE 500 ESTIMATED @ 50 LBS/ACRE
2575.511	MULCH MATERIAL, TYPE 1 ESTIMATED AT 2 TON ACRE
2575.531	COMMERCIAL FERTILIZER, 12-12-12 ESTIMATED 350 LBS/ACRE

ASSAULT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: MR
DATE: 3-21-95

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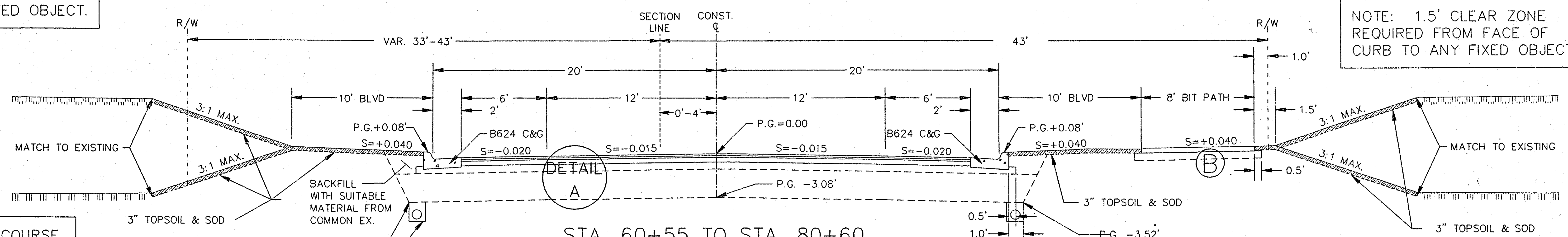
INDEX OF TABULATION CHARTS		
SHEET NO.	CHART	DESCRIPTION
6	A	CLEAR & GRUB CHART
6	B	REMOVE CM PIPE SEWER
6	C	REMOVE RC PIPE SEWER
6	D	REMOVE CONCRETE CURB & GUTTER
6	E	REMOVE BITUMINOUS CURB
6	F	REMOVE BITUMINOUS PATH
6	G	REMOVE CONCRETE PAVEMENT
6	H	REMOVE MANHOLES, CB, OR SURFACE DRAINS
6	I	SAWCUT CONCRETE PAVEMENT
6	J	SAWCUT BITUMINOUS PAVEMENT
7	K	SALVAGE & INSTALL CHAIN LINK FENCE
7	L	EARTHWORK SUMMARY
7	M	AGGREGATE BASE CLASS 6 (P)
7	N	MILL BITUMINOUS-1 1/2 IN.
8	O	BITUMINOUS MIXTURES
11	P	PROPOSED STORM SEWER STRUCTURE CHART
11	Q	4" PERFORATED P.E. DRAIN PIPE
7	R	REPLACE SANITARY SEWER SERVICE
9	S	ADJUST GATE VALVE BOX
9	T	HYDRANTS
9	U	D.I.P. WATERMAIN
9	V	WATER SERVICES
9	W	CONCRETE CURB & GUTTER DESIGN B624
7	X	6" CONCRETE DRIVEWAY PAVEMENT
11	Z	SILT FENCE CHART
9	AA	4" POLYSTYRENE INSULATION
9	AB	EXISTING UTILITY STRUCTURE CHART
10	AC	EXISTING STORM SEWER STRUCTURE CHART
16	AD	BENCH MARK CHART

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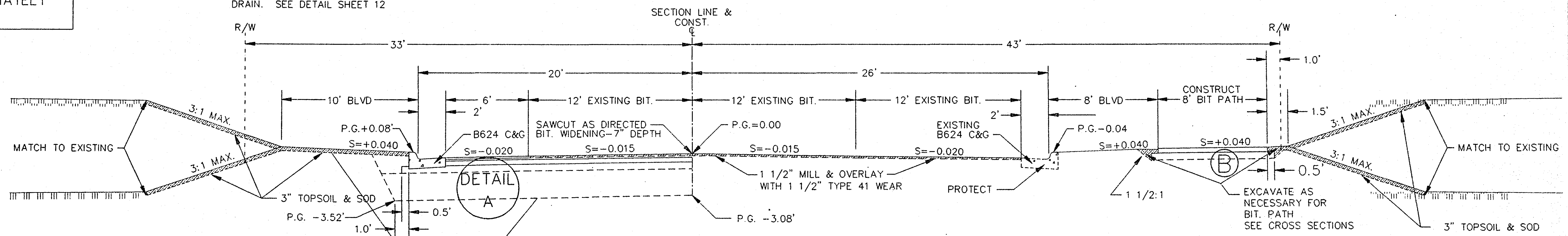
STA. 45+65 TO STA. 60+60
MUCK EXCEPTIONS-SEE TYPICAL SECTIONS SHEET 5

NOTE: 1.5' CLEAR ZONE
REQUIRED FROM FACE OF
CURB TO ANY FIXED OBJECT.

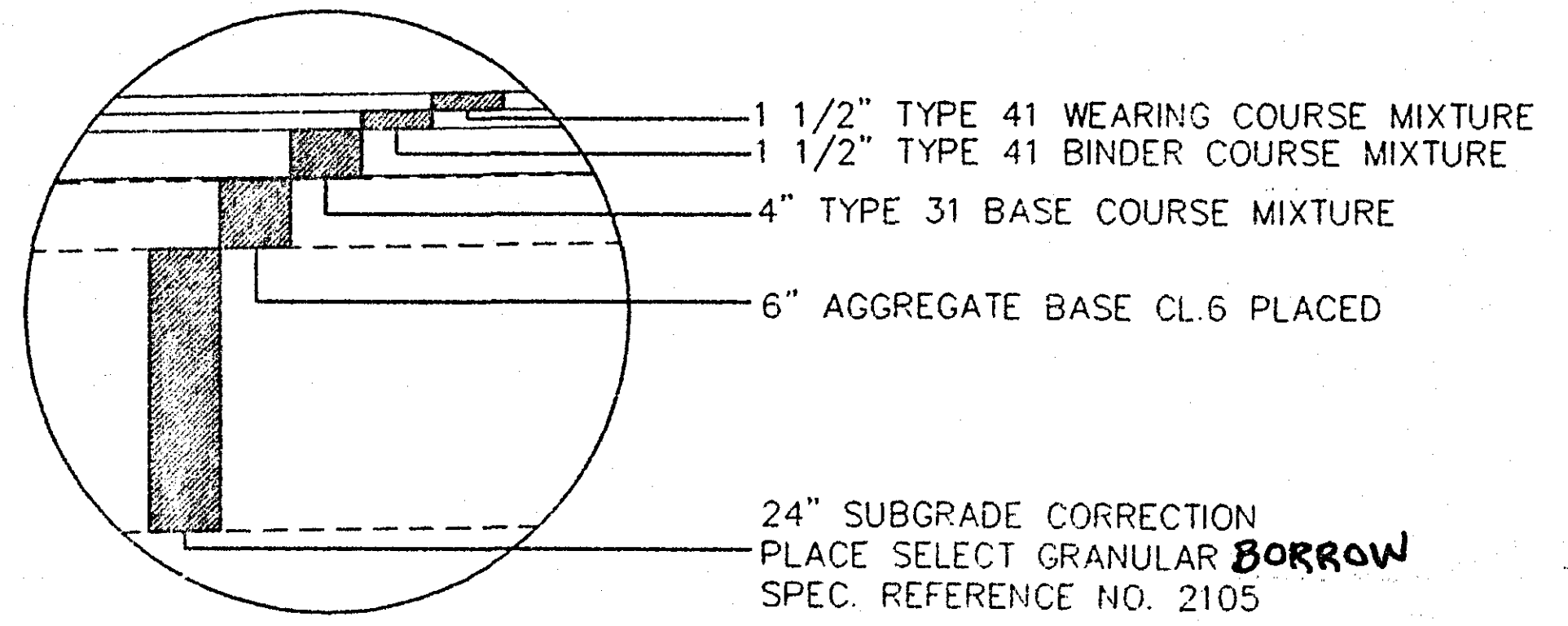


STA. 60+55 TO STA. 80+60
MUCK EXCEPTIONS-SEE TYPICAL SECTIONS SHEET 5

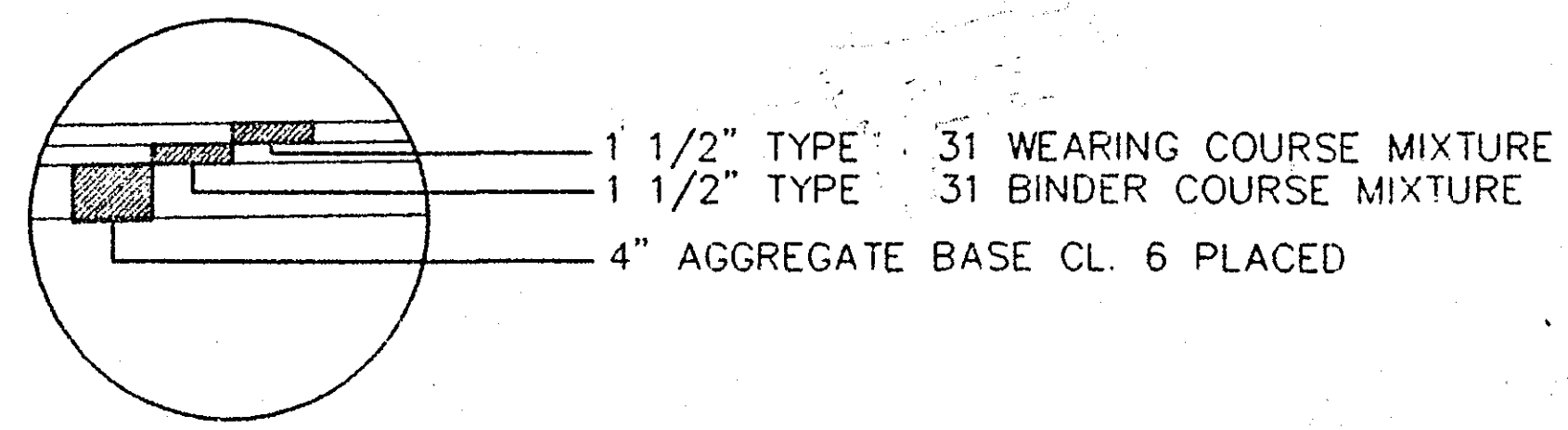
NOTE: BITUMINOUS COURSE
2-1/2" IN THICKNESS SHALL
BE PLACED IN NOT LESS
THAN TWO APPROXIMATELY
EQUAL LIFTS.



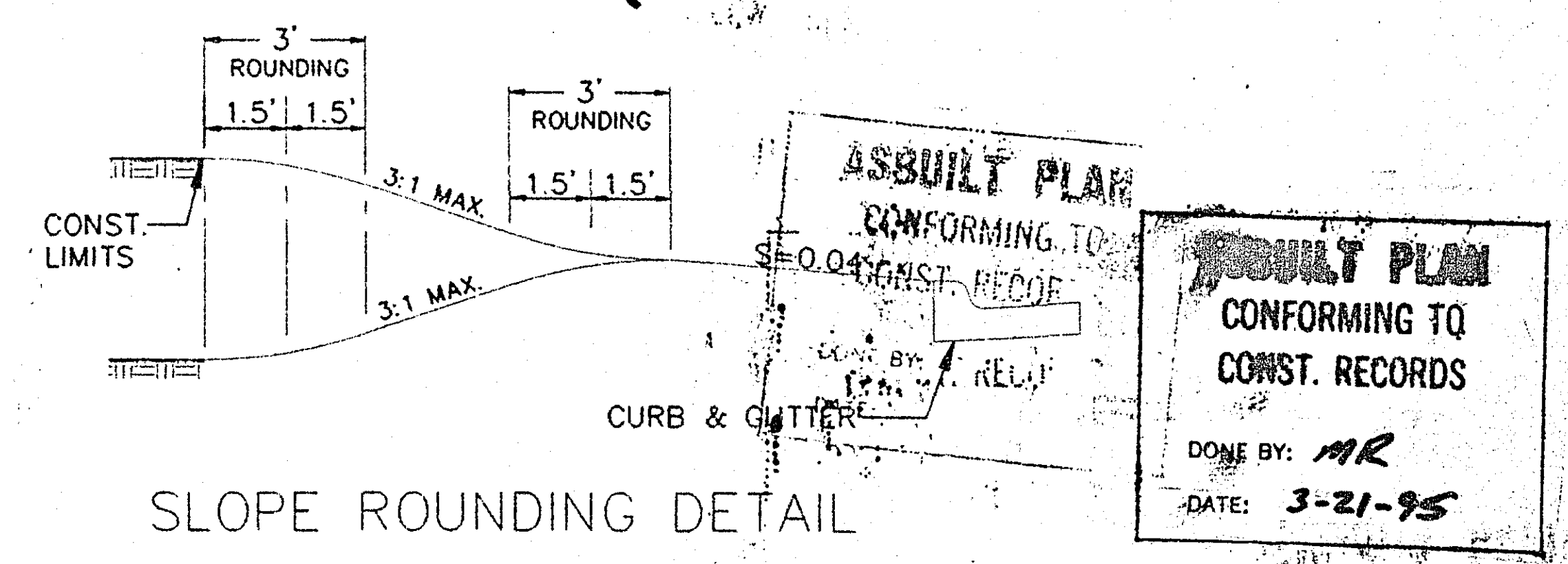
STA. 80+60 TO STA. 84+20



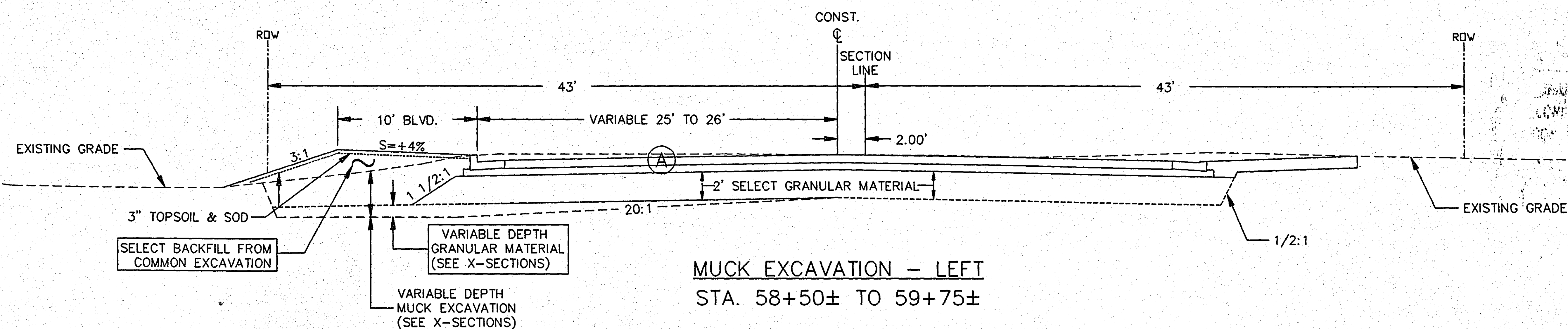
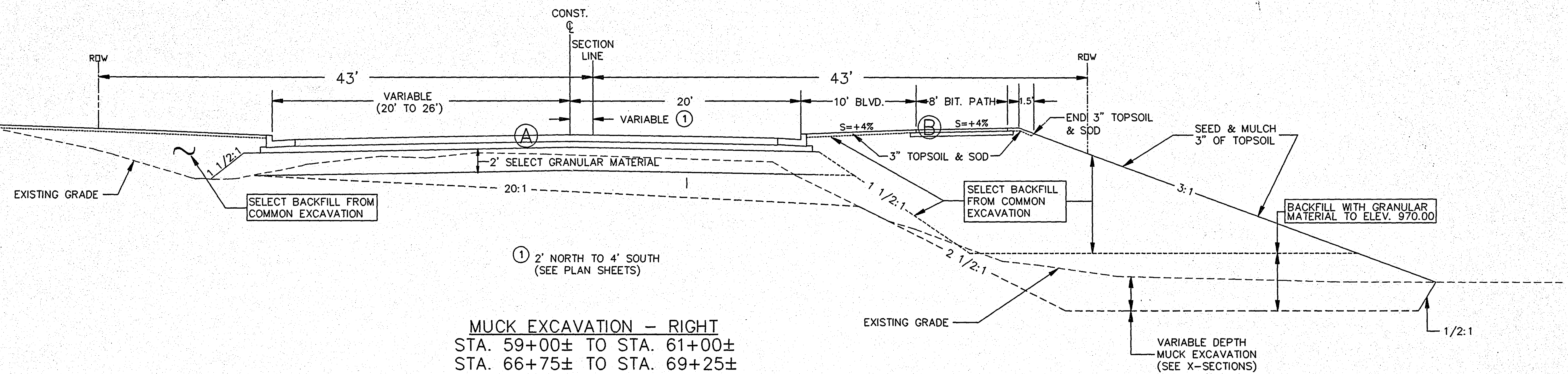
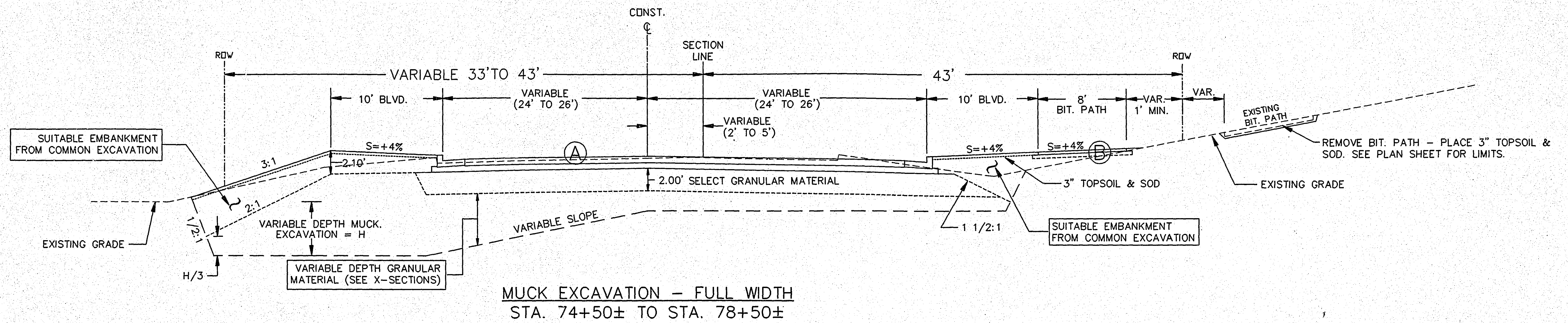
DETAIL A
ROADWAY



DETAIL B
BITUMINOUS PATH



SLOPE ROUNDING DETAIL



REVISIT PLAN
CONFORMING TO
CONST. RECORDS

28-132

\\CORDF\SEQ 03/10/94

28-132

M

AGGREGATE BASE CLASS 6 (P)					
STATION TO STATION	LOCATION	DEPTH	AREA	ODD AREA	CLASS 6
		INCH	SQ. FT.	SQ. FT.	CU. YD.
ROADWAY					
2A 2'S AT E. LEX. AVE.	LT/RT	6.00			8
45+65 TO 57+65	LT/RT	6.00	66,000		1,222
57+65 TO 60+10	LT/RT	6.00		12,618	234
60+10 TO 60+55	LT/RT	6.00	2,160		40
60+55 TO 61+66	LT/RT	6.00		5,051	94
61+66 TO 80+31	LT/RT	6.00	80,195		1,485
80+31 TO 80+61	LT/RT	6.00	1,380		26
80+61 TO 84+00	LT/RT	6.00	3,390		63
SUBTOTAL					3172
SIDE STREETS					
CHATSWORTH	RT	6.00	2,080	386	47
OXFORD ST.	LT	6.00	1,080	172	23
SYLVIA LANE	LT	6.00	1,080	172	23
NANCY PLACE	LT	6.00	6,480	172	123
WILSHIRE CIRCLE	RT	6.00	1,080	172	23
SUBTOTAL					239
ENTRANCES					
BITUMINOUS					
46+75±	LT	6.00	464		9
48+60±	RT	6.00	772		14
49+35±	RT	6.00	954		18
51+25±	RT	6.00	508		9
52+60±	LT	6.00	1,168		22
62+05±	LT	6.00	1,105		20
64+65±	LT	6.00	745		14
72+35±	LT	6.00	765		14
72+95±	LT	6.00	529		10
73+35±	LT	6.00	781		15
74+37±	LT	6.00	385		7
75+17±	LT	6.00	233		4
76+05±	LT	6.00	552		10
76+83±	LT	6.00	331		6
78+08±	LT	6.00	259		5
78+49±	LT	6.00	285		5
80+14±	LT	6.00	473		9
81+78±	LT	6.00	233		4
82+52±	LT	6.00	313		6
SUBTOTAL					201
CONCRETE					
70+47±	LT	6.00	280		5
71+00±	LT	6.00	780		14
SUBTOTAL					19
BITUMINOUS PATH					
45+75±	RT	4.00	180		3
45+65± TO 46+70±	RT	4.00	945		13
46+90± TO 49+25±	RT	4.00	2,115		29
49+45± TO 52+35±	RT	4.00	2,610		36
52+85± TO 57+90±	RT	4.00	4,545		62
58+50± TO 61+95±	RT	4.00	3,105		43
62+20± TO 64+60±	RT	4.00	2,160		30
64+80± TO 73+75±	RT	4.00	8,055		111
74+10± TO 74+80±	RT	4.00	630		9
77+60± TO 80+90±	RT	4.00	2,970		41
81+20± TO 84+60±	RT	4.00	3,060		42
SUBTOTAL					419
PROJECT TOTAL					4050

N

MILL BITUMINOUS-1 1/2 IN.		
LOCATION	AREA	REMARKS
STA. 80+60± TO 84+20±	960 SY	AS DIRECTED
PROJECT TOTAL	960 SY	

K

SALVAGE & INSTALL CHAIN LINK FENCE		
LOCATION STATION	SALVAGE CHAIN LINK FENCE	INSTALL CHAIN LINK FENCE
STA. 58+50 RT. TO 62+30 RT.	360LF	360LF
STA. 65+30± RT. TO 71+70± RT.	640LF	640LF
PROJECT TOTAL	1000LF	1000LF

NOTES: SALVAGED AND INSTALLED CHAIN LINK FENCE SHALL INCLUDE ONE DOUBLE VEHICULAR GATE.

X

6" CONCRETE DRIVEWAY PVMT.		
LOCATION STATION	6" CONCRETE PVMT.	REMARKS
LT. STA. 70+47±	31 SY	20' X 14'
LT. STA. 71+00±	87 SY	65' X 12'
PROJECT TOTAL	118 SY	

R

REPLACE SANITARY SERVICE			
LOCATION STATION	4" PVC SANITARY SERVICE	CONNECT TO EXIST. SERVICE	REMARKS
77+38± LT	20 LF	1	SERVICE REPLACEMENTS
79+70± LT	20 LF	1	SHALL INCLUDE RISERS
80+90± LT	20 LF	1	AS DETAILED IN STAN-
81+65± LT	20 LF	1	DARD SPECIFICATIONS
82+20± LT	20 LF	1	FOR SANITARY SEWER
			INSTALLATION.
PROJECT TOTAL	100 LF	5	

L

EARTHWORK CHART					
LOCATION	EXCAVATION		EMBANKMENT		
	COMMON CU. YD.	MUCK CU. YD.	SELECT GRANULAR CU. YD.	GRANULAR CU. YD.	REGULAR CU. YD.
STA. 45+67 TO 58+50	10088		5320		1130
STA. 58+50 TO 61+00	1222	1660	1044	1272	3909
STA. 61+00 TO 66+75	4473		1790		1039
STA. 66+75 TO 69+25	820	651	652	1200	3260
STA. 69+25 TO 74+50	4609		1790		424
STA. 74+50 TO 78+50		4819	1304	2190	213
STA. 78+50 TO 85+20	2380		1366		154
SUBTOTAL	23592(EV)	7134(EV)	13266(CV)	4662(CV)	10129(CV)
SUMMARY				TOTALS	
MUCK EXCAVATION				7134C.Y.(EV)	
GRANULAR BORROW	4662 C.Y.(CV) X 1.3			6061 C.Y.(LV)	
SELECT GRANULAR BORROW	13266 C.Y.(CV) X 1.3			17246 C.Y.(LV)	
COMMON EXCAVATION				23592 C.Y.(EV)	
EMBANKMENT	10129 C.Y.(CV) X 1.3			13168 C.Y.(LV)	
EXCESS COMMON EXCAVATION	23592 C.Y. - 13168 C.Y.			10424 C.Y.	
REFERENCE SECTION 2105 OF SPECIAL PROVISIONS.					
EXCESS COMMON EXCAVATION AND MUCK EXCAVATION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OUTSIDE THE R/W AND THE LIMITS OF CONSTRUCTION. THE COST FOR DISPOSAL SHALL BE THE CONTRACTORS RESPONSIBILITY AND NO ADDITIONAL COMPENSATION WILL BE PAID OUTSIDE THE PRICE BID FOR COMMON EXCAVATION AND MUCK EXCAVATION.					
COMMON EXCAVATION QUANTITY SHALL INCLUDE ENTRANCE CULVERTS AND BITUMINOUS ENTRANCES					

0

BITUMINOUS QUANTITIES																												
STATION TO STATION	LOCATION	2340 - TYPE 31 BASE					2340 - TYPE 41 BINDER					2340 - TYPE 41 WEAR					2340 - TYPE 31 BINDER					2340 - TYPE 31 WEAR					LIFTS ①	TACK COAT
		DEPTH ①	WIDTH	ODD AREA ②	TOTAL AREA	MIX	DEPTH	WIDTH	ODD AREA ②	TOTAL AREA	MIX	DEPTH	WIDTH	ODD AREA ②	TOTAL AREA	MIX	DEPTH	WIDTH	ODD AREA ②	TOTAL AREA	MIX	DEPTH	WIDTH	ODD AREA ②	TOTAL AREA	MIX		
		INCH	FT.	SQ. YD.	SQ. YD.	TON	INCH	FT.	SQ. YD.	SQ. YD.	TON	INCH	FT.	SQ. YD.	SQ. YD.	TON	INCH	FT.	SQ. YD.	SQ. YD.	TON	INCH	FT.	SQ. YD.	SQ. YD.	TON		
ROADWAY																												
2A 2'S AT E. LEX. AVE.	LT/RT	4.00		43	43	9	1.50		43	43	4	1.50		43	43	4										4	6	
45+65 TO 57+65	LT/RT	4.00	48		6,400	1,408	1.50	48		6,400	528	1.50	48		6,400	528										4	960	
57+65 TO 60+10	LT/RT	4.00		1,225	1,225	270	1.50		1,225	1,225	101	1.50		1,225	1,225	101										4	184	
60+10 TO 60+55	LT/RT	4.00	42		210	46	1.50	42		210	17	1.50	42		210	17										4	32	
60+55 TO 61+66	LT/RT	4.00		481	481	106	1.50		481	481	40	1.50		481	481	40										4	72	
61+66 TO 80+31	LT/RT	4.00	36		7,460	1,642	1.50	36		7,460	615	1.50	36		7,460	615										4	1,119	
80+31 TO 80+61	LT/RT	4.00	38		127	28	1.50	38		127	10	1.50	38		127	10										4	19	
80+61 TO 84+00±	LT	4.00	18		678	149	1.50	18		678	56	1.50	18		678	56										4	102	
SIDE STREETS																												
CHATSWORTH	RT	4.00	44	43	239	53	1.50	44	43	239	20	1.50	44	43	239	20										4	36	
OXFORD ST.	LT	4.00	30	19	119	26	1.50	30	19	119	10	1.50	30	19	119	10										4	18	
SYLVIA LANE	LT	4.00	30	19	186	41	1.50	30	19	186	15	1.50	30	19	186	15										4	28	
NANCY PLACE	LT	4.00	30	19	619	136	1.50	30	19	619	51	1.50	30	19	619	51										4	93	
WILSHIRE CIRCLE	RT	4.00	30	19	119	26	1.50	30	19	119	10	1.50	30	19	119	10										4	18	
ENTRANCES																												
46+75±	LT																1.50	24	104	52	4	1.50	24	104	52	4	2	3
48+60±	RT																1.50	30	172	86	7	1.50	30	172	86	7	2	4
49+35±	RT																1.50	24	90	106	9	1.50	24	90	106	9	2	5
51+25±	RT																1.50	24	172	56	5	1.50	24	172	56	5	2	3
52+60±	LT																1.50	30	268	130	11	1.50	30	268	130	11	2	7
62+05±	LT																1.50	20	25	123	10	1.50	20	25	123	10	2	6
64+65±	LT																1.50	16	25	83	7	1.50	16	25	83	7	2	4
72+35±	LT																1.50	20	25	85	7	1.50	20	25	85	7	2	4
72+95±	LT																1.50	14	25	59	5	1.50	14	25	59	5	2	3
73+35±	LT																1.50	14	25	87	7	1.50	14	25	87	7	2	4
74+37±	LT																1.50	18	25	43	4	1.50	18	25	43	4	2	2
75+17±	LT																1.50	16	25	26	2	1.50	16	25	26	2	2	1
76+05±	LT																1.50	28	104	61	5	1.50	28	104	61	5	2	3
76+83±	LT																1.50	18	25	37	3	1.50	18	25	37	3	2	2
78+08±	LT																1.50	18	25	29	2	1.50	18	25	29	2	2	1
78+49±	LT																1.50	20	25	32	3	1.50	20	25	32	3	2	2
80+14±	LT																1.50	14	25	53	4	1.50	14	25	53	4	2	3
81+78±	LT																1.50	16	25	26	2	1.50	16	25	26	2	2	1
82+52±	LT																1.50	16	25	35	3	1.50	16	25	35	3	2	2
BITUMINOUS PATH																												
45+75± (R)	RT																1.50	8		20	2 (R)	1.50	8		20	2 (R)	2	1 (R)
74+55±	RT																1.50	8		290	24	1.50	8		290	24	2	15
45+65± TO 46+70±	RT																1.50	8		93	8	1.50	8		93	8	2	5
46+90± TO 49+25±	RT																1.50	8		209	17	1.50	8		209	17	2	10
49+45± TO 52+35±	RT																1.50	8		258	21	1.50	8		258	21	2	13
52+85± TO 57+90±	RT																1.50	8		449	37	1.50	8		449	37	2	22
58+50± TO 61+95±	RT																1.50	8		307	25	1.50	8		307	25	2	15
62+20± TO 64+60±	RT																1.50	8		213	18	1.50	8		213	18	2	11
64+80± TO 73+75±	RT																1.50	8		796	66	1.50	8		796	66	2	40
74+10± TO 77+60± (R)	RT																1.50	8		312	26 (R)	1.50	8		312	26 (R)	2	16 (R)
77+60± TO 80+90±	RT																1.50	8		293	24	1.50	8		293	24	2	15
81+20± TO 84+60±	RT																1.50	8		302	25	1.50	8		302	25	2	15
TOTALS					17906	3940				17906	1477				17906	1477				4751	393				4751	393		2925

- ① BITUMINOUS BASE COURSES IN EXCESS OF 2.5" SHALL BE PLACED IN NOT LESS THAN TWO APPROXIMATELY EQUAL LIFTS
- ② IRREGULAR PAVEMENT
- (R) REPLACEMENT

L:\CORP\SEQ 03/04/94

AB

EXISTING UTILITY STRUCTURE CHART														
STATION SECTION LINE	LOCATION	NO.	TYPE	STRUCT. TYPE	CASTING SIZE	ELEVATION				SALVAGE CASTING ASSEMBLY EACH	ADJUST CASTING ASSEMBLY EACH	RECONST. CB OR MH SD L.F.	INSTALL CASTING ASSEMBLY EACH	REMARKS
						PROFILE	ORIGINAL GRATE OR RING	NEW GRATE OR RING	CB MH OR APRON INVERT					
SANITARY														
46+00	LT. 40'	100	SAN	MH	7"	965.64	967.24	965.6±	957.14		1			3 RINGS-0.6'/SECTIONAL
49+14	LT. 40'	110	SAN	MH	7"	971.39	969.56	971.83	961.16			8.0'±	1	7 RINGS-1.6'/SECTIONAL
52+59	LT. 41'	116	SAN	MH	7"	976.36	977.34	976.84	963.04		1			3 RINGS-0.6'/SECTIONAL
56+09	LT. 40'	123	SAN	MH	7"	972.18	973.45	972.5±	964.75		1			7 RINGS-1.3'/SECTIONAL
69+87	LT. 18'	129	SAN	MH	7"	982.32	981.25	982.4±	966.25			4.0'±	1	1 RINGS-0.2'/SECTIONAL
74+08	LT. 17'	130	SAN	MH	7"	976.77	977.57	977.3±	962.07			4.0'±	1	2 RINGS-0.2'/SECTIONAL
78+60	LT. 17'	132	SAN	MH		976.99	976.3±	976.5±	966.0±			5.0'±	1	
83+12	LT. 17'	133	SAN	MH	9"		980.50	980.5±	970.50		1			1 RING-0.2'/BLOCK & SECTIONAL
GAS														
46+20	LT. 37'	104	GAS	MH	11"	966.01	966.87	966.45	957.67		1			5 RINGS-1.1'/SECTIONAL
TELEPHONE														
65+42	LT. 29'	127	TEL	MH	12"	984.81	986.88	985.5±	977.88		1			RINGS-1.4'
ELECTRIC														

NOTES

STRUCTURES TO BE RECONSTRUCTED SHALL BE EQUIPPED WITH TYPE W ALUMINUM STEPS IN ACCORDANCE WITH MN/DOT STANDARD PLATE 4180H AND OWNERS SPECIAL REQUIREMENTS.

W

B624 CONCRETE CURB & GUTTER			
STATION TO STATION	LOCATION	B624	REMARKS
		LIN. FT.	
LEXINGTON RADII	RT	48	
LEXINGTON RADII	LT	48	
45+95 TO 46+55	RT	60	
45+95 TO 48+25	LT	230	
2 L-15' RADII @ 46+80±	RT	50	
46+80±	ENT. RT	NONE	B618 @ 43': MATCH @ 43'
2 L-15' RADII PLUS 20' @ 48+55±	LT	70	
47+10 TO 49+10	RT	200	
48+85 TO 50+00 PLUS 90'	LT	205	
2 L-15' RADII @ 49+30±	RT	50	
49+30±	ENT. RT	40	B618 @ 43': 43' TO 60'=17X2
2 L-15' RADII @ 51+20± PLUS 20'	LT	70	
49+65 TO 52+20	RT	255	
51+45 TO 55+70	LT	425	
2 L-25' RADII @ 52+45± PLUS 50'	RT	130	CONTROL DATA ENT.
52+45	ENT. RT	7	B618 @ 48': 48' TO 55'=7
2 L-25' RADII @ 56+10±	LT	80	OXFORD STREET
OXFORD STREET		40	D18 @ 42'
52+90 TO 57+65	RT	475	
56+50 TO 59+75	LT	325	
2 L-30' RADII @ 58+20±	RT	100	CHATSWORTH
CHATSWORTH		NONE	B618 @ 54': MATCH
2 L-25' RADII @ 60+20±	LT	100	SYLVIA LANE
SYLVIA LANE		20	D18 @ 42'
58+70 TO 73+50	RT	1,480	
60+55 TO 64+50	LT	395	
2 L-25' RADII @ 64+90±	LT	80	NANCY PLACE
NANCY PLACE		320	D18 @ 44': MATCH CITY WORK
2 L-25' RADII @ 73+90±	RT	80	WILSHIRE CIRCLE
WILSHIRE CIRCLE		20	D18 @ 43' : 10X2
74+25 TO 80+60	RT	635	
65+30 TO 75+75	LT	1045	
2 L-15' RADII @ 76+05± PLUS 30'	LT	80	WILSON PARK
76+30 TO 84+20	LT	790	
PROJECT TOTAL		7,953	

S

ADJUST G.V. BOX	
LOCATION STATION	ADJUST VALVE BOX
STA. 45+85 RT. 20'	1EA.
STA. 49+12 RT. 25'	1EA.
STA. 52+68 RT. 20'	1EA.
STA. 52+75 RT. 51'	1EA.
STA. 52+90 RT. 30'	1EA.
STA. 56+00 RT. 16'	1EA.
STA. 56+34 RT. 25'	1EA.
STA. 59+38 RT. 25'	1EA.
STA. 62+50 RT. 16'	1EA.
STA. 62+78 RT. 23'	1EA.
STA. 66+28 RT. 19'	1EA.
STA. 70+28 RT. 19'	1EA.
STA. 73+88 RT. 13'	1EA.
STA. 73+97 RT. 42'	1EA.
STA. 76+15 LT. 47'	1EA.
STA. 77+18 RT. 16'	1EA.
STA. 77+36 RT. 25'	1EA.
PROJECT TOTAL	17 EA.

T

HYDRANTS			
LOCATION STATION	RELOCATE ASSEMBLY	ADJUST HYDRANT	REMARKS
SHOREVIEW			
STA. 45+88 RT. 32'	1 EA.		AS DIRECTED
STA. 49+12 RT. 28'	1 EA.		AS DIRECTED
STA. 52+95 RT. 30'	1 EA.		CONNECT TO
			EXISTING 8" MAIN
STA. 56+34 RT. 30'	1 EA.		AS DIRECTED
STA. 59+36 RT. 30'	1 EA.		AS DIRECTED
STA. 62+80 RT. 28'	1 EA.		AS DIRECTED
STA. 66+28 RT. 24'	1 EA.		AS DIRECTED
STA. 70+28 RT. 24'		1 EA.	AS DIRECTED
STA. 73+68 RT. 44'			O.K.
STA. 77+35 RT. 30'	1 EA.		AS DIRECTED
STA. 80+80 RT. 30'			O.K.
STA. 84+45 RT. 30'			O.K.
PROJECT TOTAL	8 EA.	1 EA.	

V

WATER SERVICES				
LOCATION	ADJUST CURB STOP	ADJUST CURB STOP BOX	1" TYPE K WATER SERVICE	1" CORP. STOP
SHOREVIEW				
STA. RT. 64+00		1 EA.	26 LF	1 EA.
STA. LT. 70+05 HO. #877		1 EA.		
STA. LT. 71+30 HO. #875		1 EA.	46 LF	1 EA.
STA. LT. 72+08 HO. #855	1 EA.	1 EA.	50 LF	1 EA.
STA. LT. 72+98 HO. #845	1 EA.	1 EA.	60 LF	1 EA.
STA. LT. 74+35 HO. #835		1 EA.	60 LF	1 EA.
STA. LT. 75+42 HO. #825		1 EA.		
STA. LT. 78+42 HO. #795		1 EA.		
STA. LT. 79+60 HO. #789		1 EA.		
STA. LT. 80+52 HO. #777		1 EA.		
STA. LT. 81+55 HO. #771		1 EA.		
STA. LT. 83+16 HO. #4085		1 EA.		
PROJECT TOTAL	2 EA.	12 EA.	242 LF	5 EA.

U

D.I.P. WATERMAIN			
LOCATION	8" D.I.P.	CONNECT TO EXISTING	REMARKS
COUNTY ROAD F			
STA. 62+50± TO STA. 75+00±	1250 LF	2 EA.	C.I.P.
STA. 73+95±		1 EA.	D.I.P.
NANCY PLACE			
STA. 0-15± TO STA. 2+00±	215 LF	1 EA.	D.I.P.
STA. 0+44± LT. 10' TO LT. 30'	20 LF	1 EA.	D.I.P.
PROJECT TOTAL	1485 LF	5 EA.	

AA

4" POLYSTYRENE INSULATION		
LOCATION	4" POLYSTYRENE INSULATION	REMARKS
STA. 46+80± RT.	64 SF	WATERMAIN
STA. 48+86± RT.	64 SF	WATERMAIN
STA. 56+10± LT.	64 SF	SAN. SEWER
STA. 56+58± RT.	64 SF	WATERMAIN
STA. 75+42± LT.	64 SF	WATER SERVICE
STA. 76+42± RT.	64 SF	WATERMAIN
STA. 76+58± LT.	64 SF	WATER SERVICE
STA. 77+46± LT.	64 SF	WATER SERVICE
STA. 78+44± LT.	64 SF	WATER SERVICE
STA. 79+20± RT.	64 SF	WATERMAIN
PROJECT TOTAL	640 SF	

EXISTING STORM SEWER STRUCTURE CHART

STATION SECTION LINE	LOCATION	NO.	TYPE	CASTING ASSEMBLY	ELEVATION			CB, MH OR APRON INVERT	SALVAGE CASTING ASSEMBLY EACH	ADJUST CASTING ASSEMBLY EACH	RECONST. CB, MH OR SD L.F.	INSTALL CASTING ASSEMBLY EACH	18" R.C. PIPE L.F.	24" R.C. PIPE L.F.	REMARKS	STRUCTURE DATA
					PROFILE	ORIGINAL GRATE OR RING	NEW GRATE OR RING									
								LEXINGTON TO CHATSWORTH								
46+05	LT. 7'	101	MH	7"	965.73	966.02	965.7±	959.32		1					SPECIAL CROSS SLOPE TO MATCH LEXINGTON AVENUE	3 RINGS-0.6'/BLOCK
46+10	LT. 27'	102	CB	LP4	965.83	966.77	965.82	961.07			2.0'±	1				BLOCK
46+10	RT. 27'	103	CB	LP4	965.83	966.08	965.82	961.48			2.0'±	1				BLOCK
46+33	LT. 35'	105	MH	9"	966.24	967.77	967.6±	961.17		1					FINAL ELEVATION IN FIELD	2 RINGS-0.4'/BLOCK & SECTIONAL
46+79	RT. 79'	106	SD	7"	967.09	965.80	965.8±	949.60		1					MAKE SUITABLE CONNECTION TO 21" RCP	SECTIONAL
48+39	LT. 35'	107	CB	7"	970.01	969.98		962.18	1				8		REMOVE CB	1 RING-0.2'/BLOCK & SECTIONAL
48+80	LT. 35'	108	SD	7"	970.76	969.07	970.9±	962.47	1		5.5'±	(A)			CONVERT TO MH - MAKE SUITABLE CONNECTION	1 RING-0.2'/BLOCK & SECTIONAL
48+89	RT. 52'	109	SD		970.93	970.66		959.26		OK						7 RINGS-1.4'/SECTIONAL
49+25	RT. 77'	111	CB	7"	971.59	969.46		951.76		OK						7 RINGS-1.5'/SECTIONAL
50+00	RT. 79'	112	SD	7"	972.96	968.95		954.35		OK						4 RINGS-1.0'/SECTIONAL
50+47	LT. 35'	113	SD	7"	973.82	971.47	974.06	963.27	1		5.0'±	(A)			CONVERT TO MH	2 RINGS-0.5'/BLOCK & SECTIONAL
50+98	RT. 76'	114	SD	7"	974.75	967.75		953.75		OK						8 RINGS-1.6'/SECTIONAL
51+55	LT. 35'	115	SD	7"	975.60	974.14	976.04	963.74	1		6.0'±	(A)			CONVERT TO MH	2 RINGS-0.5'/SECTIONAL
52+73	RT. 74'	117	CB	11"	976.35	974.35	974.3±	957.25		1						2 RINGS-0.5'/SECTIONAL
54+22	RT. 73'	118	SD	7"	974.83	967.49		959.89		OK						9 RINGS-1.8'/SECTIONAL
54+90	RT. 78'	119	SD	7"	973.70	967.33		960.53		OK						10 RINGS-2.0'/SECTIONAL
55+61	LT. 36'	120	SD	7"	972.54	972.12	972.82	965.52	1		4.0'±	(A)			CONVERT TO MH - MAKE SUITABLE CONNECTION	9 RINGS-1.7'/BLOCK
55+92	LT. 35'	121	CB	RC2-4"	972.03	972.95		965.65	1						REMOVE CB	2 RINGS-0.4'/BLOCK & SECTIONAL
55+89	RT. 78'	122	SD	7"	972.08	965.50		960.90		OK						BLOCK & 0.5' BRICK
56+28	LT. 35'	124	CB	RC2-4"	972.09	972.73	971.5±	965.83	1		2.0'±	(A)			CONVERT TO MH - MAKE SUITABLE CONNECTION	2 RINGS-0.4'/BLOCK

NOTES

STRUCTURES TO BE RECONSTRUCTED SHALL BE EQUIPPED WITH TYPE W ALUMINUM STEPS IN ACCORDANCE WITH MN/DOT STANDARD PLATE 4180H AND OWNERS SPECIAL REQUIREMENTS.

(A) FURNISH AND INSTALL CASTING ASSEMBLY :
MN/DOT 700-7 RING CASTING STD. PLATE 4101C
MN/DOT 716 COVER CASTING STD. PLATE 4110E
PAYMENT SHALL BE MADE AS ITEM NO. 2506.516,
CASTING ASSEMBLY BY THE EACH.

...:\CORDF\SEQ 04/20/94

STATION CONST. CL	LOCATION	NO.	TYPE	DESIGN	CASTING ASSEMBLY	ELEVATION			INSTALL CASTING ASSEMBLY EACH	F & I R.C. PIPE SEWER				DRAINS TO		REMARKS
						PROFILE	GRATE OR RING	CB, MH OR APRON INVERT		15"	18"	21"	24"	STRUCT. NO.	INVERT ELEV.	
46+78.6	CL	204	MH	C (or) G	A	967.09	966.99	961.85				81'		SD 106	960.20	MAKE SUITABLE CONN.
48+66.5	CL	205	MH	C (or) G	A	970.55	970.45	965.65				188'		MH 204	961.95	
48+41.0	43.3' LT.	206	CB	SP2	B	970.08	970.5±	966.25		26'				CB 207	966.12	
48+66.5	43.3' LT.	207	CB	SP2-48	B	970.55	970.5±	966.00			43'			MH 205	965.78	
48+70.0	143' LT.	208	SD	C (or) G	D	970.61	972.2±	967.50		100'				CB 207	967.10	
48+87.0	25.5' LT.	209	CB	SP2-48	B	970.92	970.30	963.44		8'				SD 108	963.34	MAKE SUITABLE CONN.
48+87.0	25.5' RT.	210	CB	SP2	B	970.92	970.30	964.50		50'				CB 209	963.54	
49+05.0	42' LT	211	SD	H	D	971.26	969.75	966.30		39'				CB 207	966.10	
51+10.0	CL	212	MH	C (or) G	A	975.02	974.92	970.47			243'			MH 205	965.75	
51+10.0	43.3' LT.	213	CB	SP2-48	B	975.02	974.6±	970.9±				43'		MH 212	970.47	
51+30.0	43.3' LT.	214	CB	SP2	B	975.35	974.6±	971.20		20'				CB 213		
50+96.0	127.5' LT	215	CB	LP12-4	C	974.77	975.5±	971.50				85'		CB 213	970.99	
54+11.0	25.5' LT.	216	CB	SP2	B	975.02	974.40	970.56		151'				CB 217	968.24	
55+62.0	25.5' LT.	217	CB	SP2	B	972.61	971.99	968.14		10'				SD 120	968.04	MAKE SUITABLE CONN.
55+94.0	51.5' LT.	218	CB	SP2	B	972.29	972.7±	968.68		30'				CB 219	968.54	
56+24.5	51.5' LT.	219	CB	SP2-48	B	972.11	972.7±	968.5±						CB 124		BUILD OVER EX. PIPE
56+58.12	27.5' LT.	220	CB	LP4-5	C	972.04	972.04	966.25			32'			CB 124	966.10	MAKE SUITABLE CONN.
56+58.12	27.5' RT.	221	CB	LP4-5	C	972.04	972.04	966.64		55'				CB 220	966.35	
58+76.0	22.7' RT.	222	CB	SP2	B	974.98	974.42	970.69		218'				CB 221	966.74	
60+31.0	47.5' LT.	225	CB	SP2	B	979.67	978.4±	974.69		29'				CB 125	974.09	MAKE SUITABLE CONN.
60+55.0	25.5' LT.	226	CB	SP2	B	980.40	979.78	975.45		33'				CB 225	975.12	
60+55.0	19.5' RT.	227	CB	SP2	B	980.40	979.90	975.94		44'				CB 226	975.50	
61+55.0	19.5' LT.	228	CB	SP2	B	983.42	982.92	978.50		100'				CB 226	975.55	

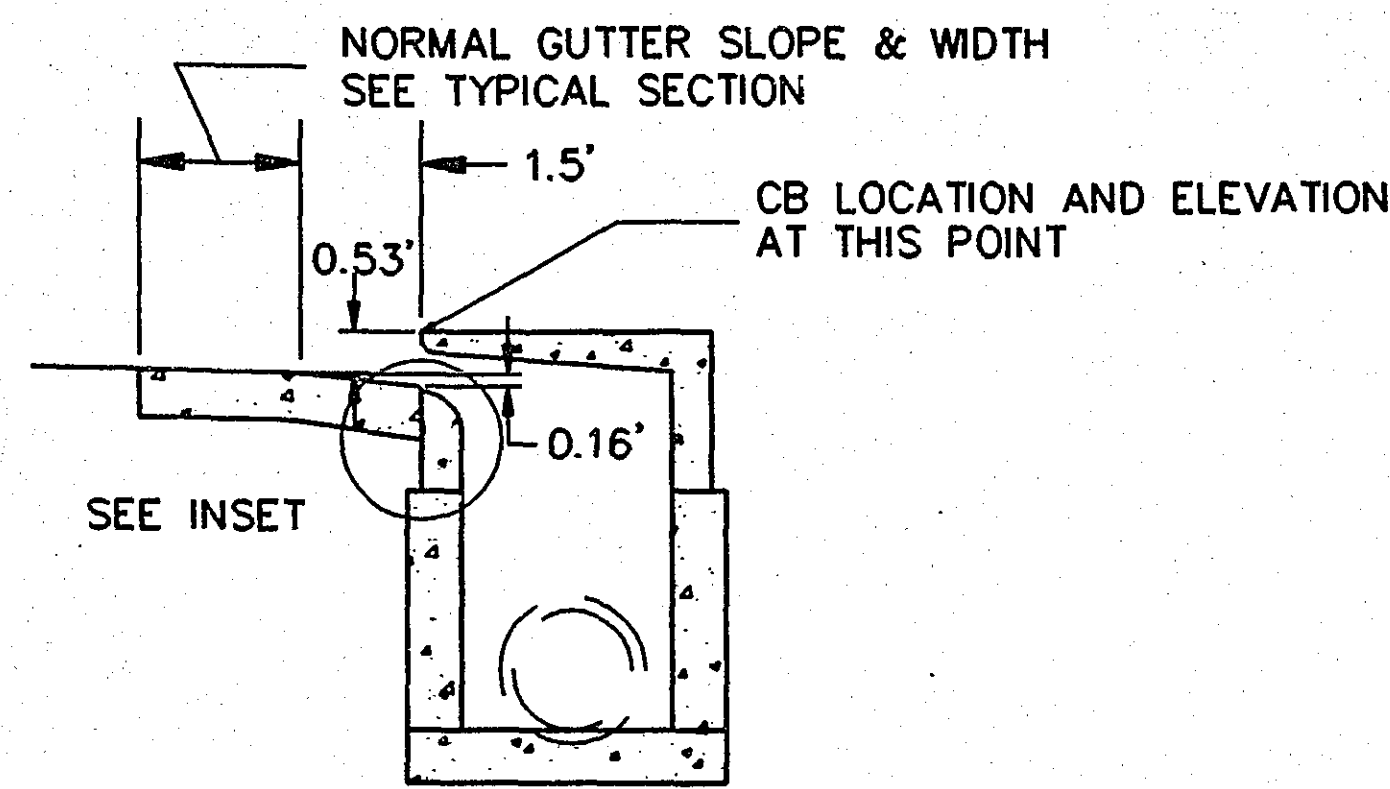
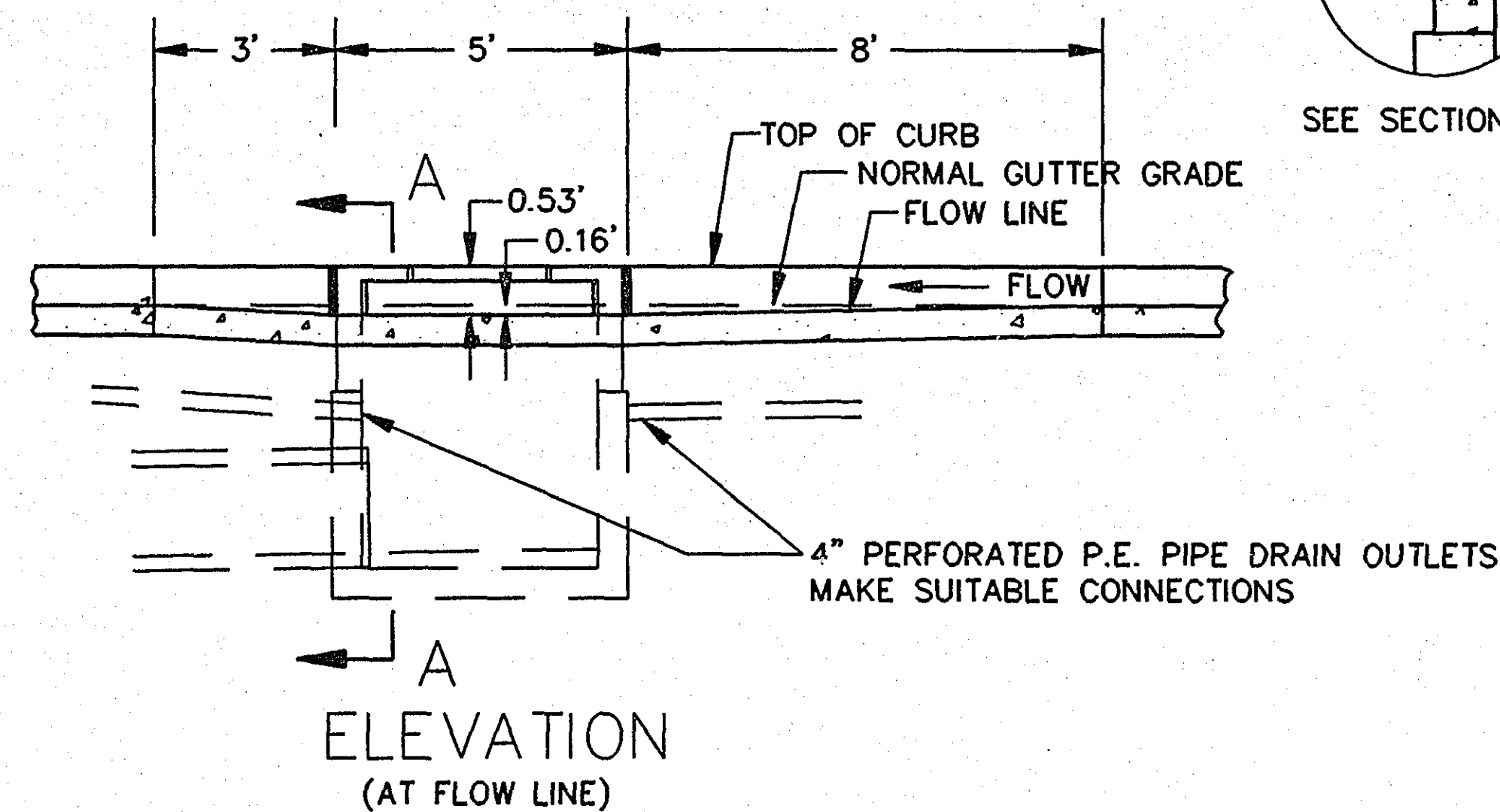
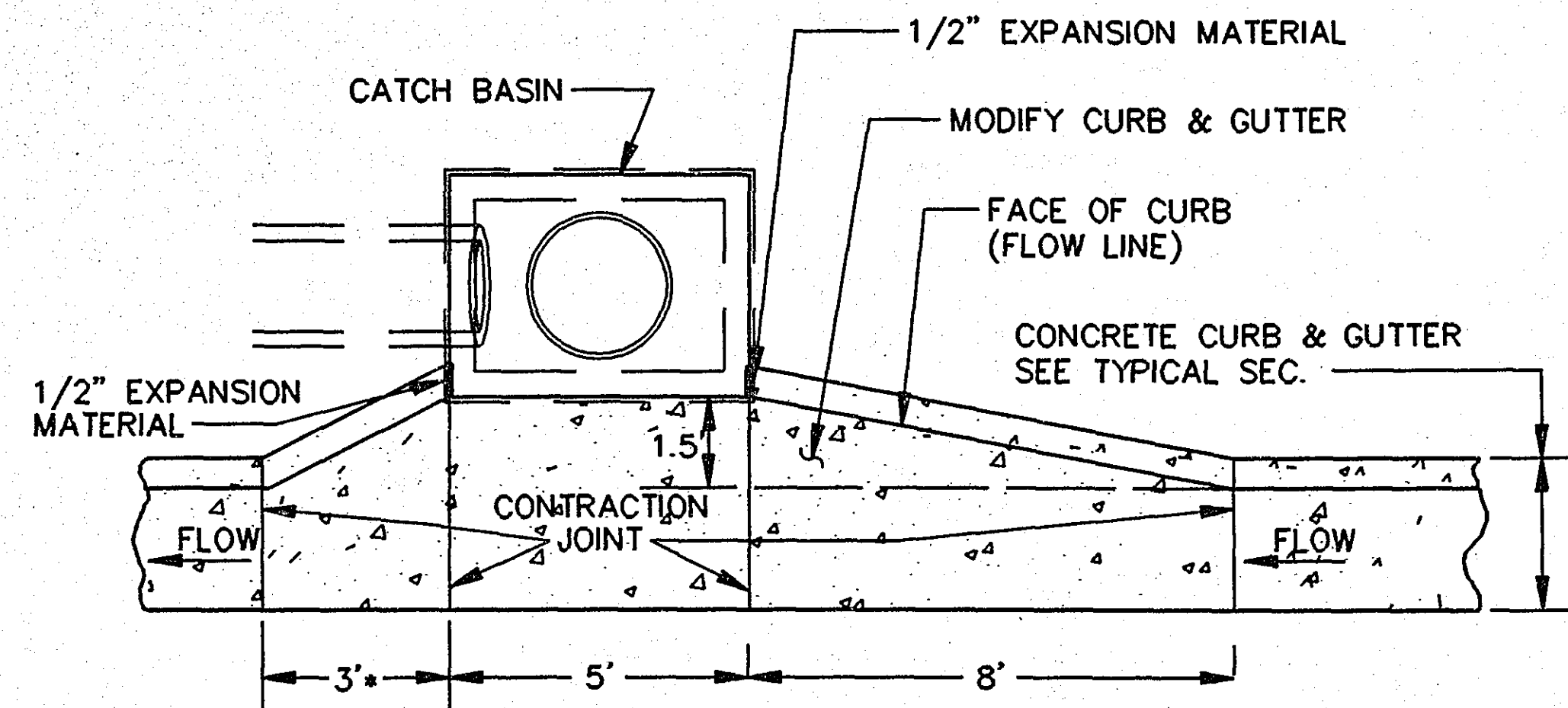
CASTINGS SHALL BE INCLUDED IN PRICE BID PER STRUCTURE (SPEC. REF. 2506)

4" P.E. PIPE DRAIN			
STATION TO STATION	LOCATION	4" P.E. PIPE DRAIN	REMARKS
		LIN. FT.	
48+30 TO 46+10	LT	220	CB 102
48+75 TO 46+10	RT	265	CB 103
52+00 TO 48+87	LT	313	CB 209
52+00 TO 49+15	RT	285	CB 210
53+00 TO 54+12	LT	112	CB 216
53+00 TO 56+60	RT	360	CB 221
54+25 TO 55+60	LT	135	CB 217
56+30 TO 56+60	LT	30	CB 220
57+75 TO 56+60	RT	115	CB 221
59+85 TO 56+60	LT	325	CB 220
60+40 TO 58+75	RT	165	CB 222
61+40 TO 60+55	LT	85	CB 226
62+70 TO 61+55	LT	115	CB 228
62+70 TO 60+55	RT	215	CB 227
65+25 TO 68+15	RT	290	CB 233
65+25 TO 68+15	LT	290	CB 231
70+50 TO 68+15	LT	235	CB 231
70+50 TO 68+15	RT	235	CB 233
71+10 TO 73+50	RT	240	CB 235
71+10 TO 73+50	LT	240	CB 236
74+20 TO 76+42	LT	222	CB 239
74+20 TO 76+42	RT	222	CB 240
79+10 TO 76+42	RT	268	CB 240
79+10 TO 76+42	LT	268	CB 239
PROJECT TOTAL		5250	

$$Z$$

SILT FENCE CHART		
LOCATION STATION	SILT FENCE LF	REMARKS
LEFT		
48+50± TO 51+10±	260	SILT FENCE SHALL BE INSTALLED
51+30± TO 52+00±	70	AND MAINTAINED PER SPEC.
58+40± TO 59+90±	150	REFERENCE 2573.3C
67+50± TO 69+00±	150	
RIGHT		
47+00± TO 49+25±	225	
49+45± TO 52+45±	300	
52+70± TO 58+00±	530	
58+40± TO 62+00±	360	
62+15± TO 63+00±	85	
66+00± TO 70+00±	400	
PROJECT TOTAL	2,530	
FLOATION SILT CURTAIN		
LEXINGTON AVE. OUTLET POND	140	2 LOCATIONS
NANCY PLACE OUTLET POND	70	
WILSON PARK OUTLET POND	70	
PROJECT TOTAL	280	

CURB OPENING CATCH BASIN – DESIGN LP INSTALLATION DETAIL



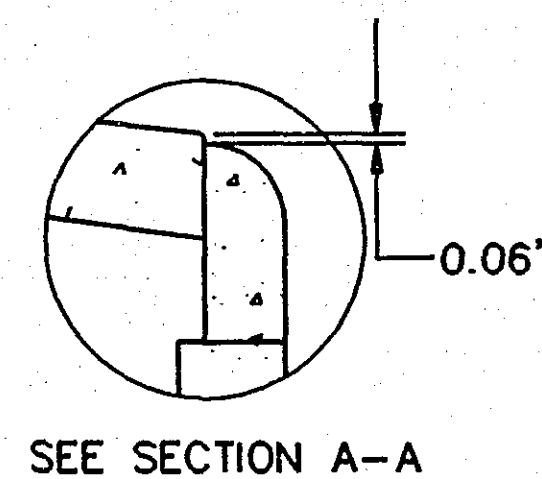
NOTES

* DIMENSION SHALL BE 8' WHEN STRUCTURE IS INSTALLED AT LOW POINT IN GRADE.

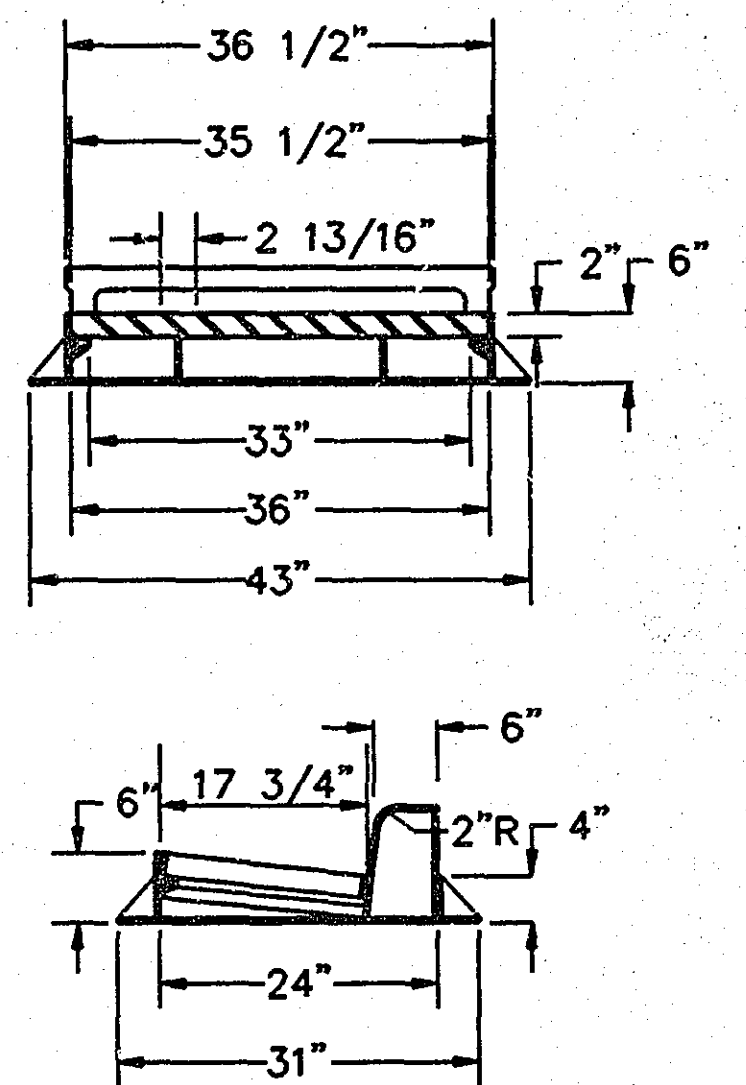
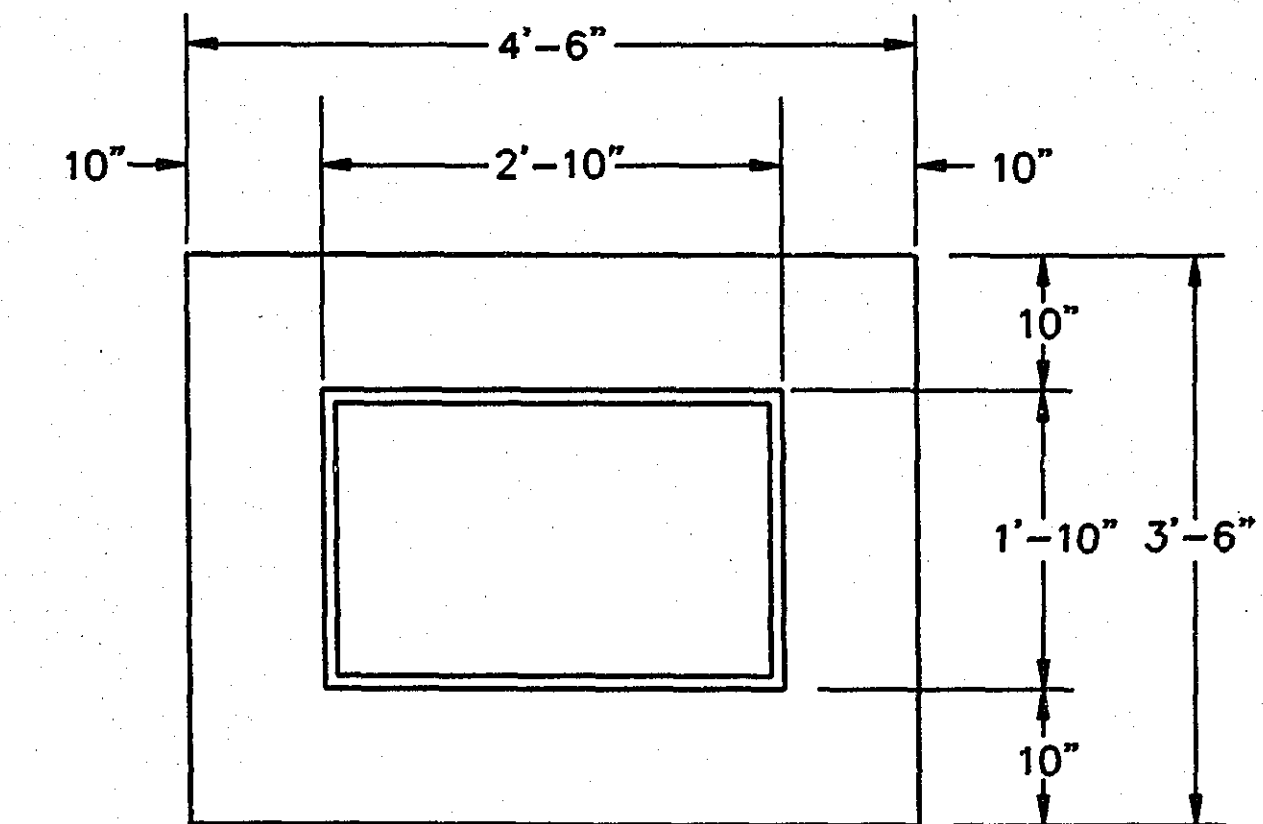
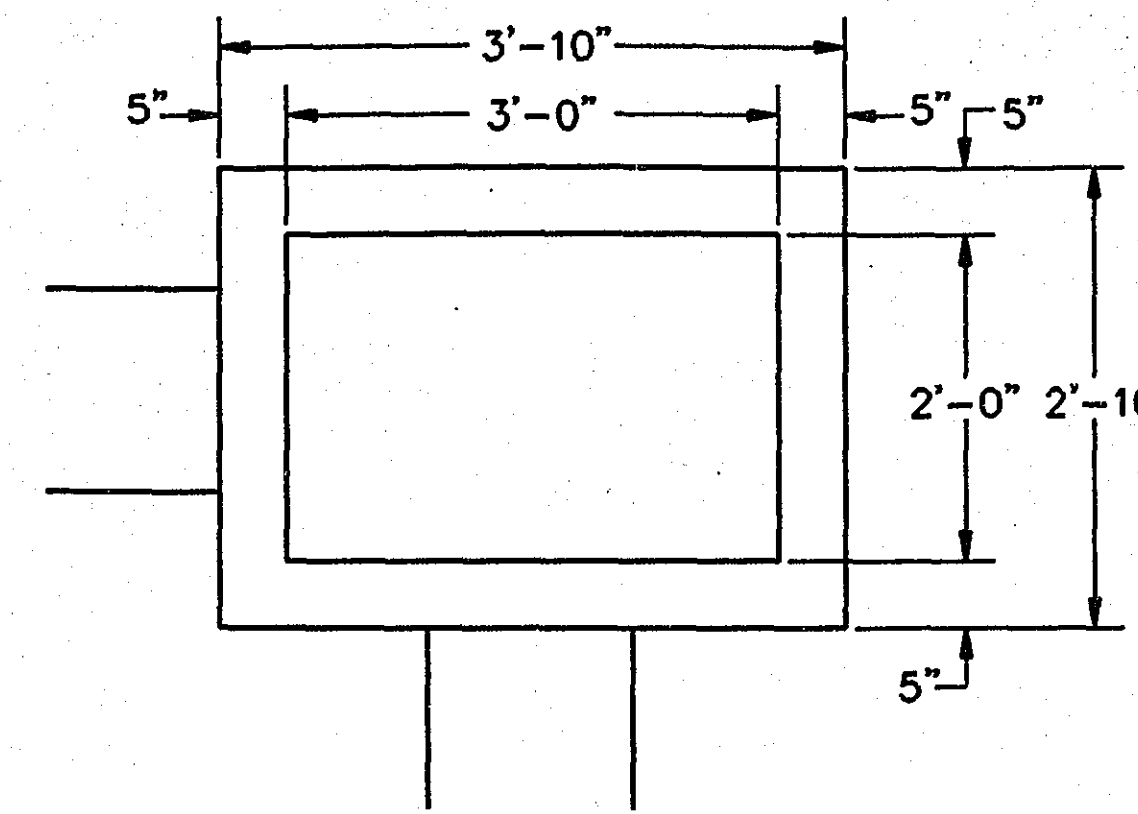
CATCH BASIN – DESIGN LP – SEE MN/DOT STD. PL. NO. 4021.

TOP OF CATCH BASIN SHALL BE INSTALLED AT SAME SLOPE AS BLVD. GRADES AND TOP OF CURB GRADE EACH SIDE OF STRUCTURE.

ELEVATION OF STRUCTURE IS COMPUTED AT LOCATION SHOWN IN SEC. A-A AT C. OF C.B. OPENING.

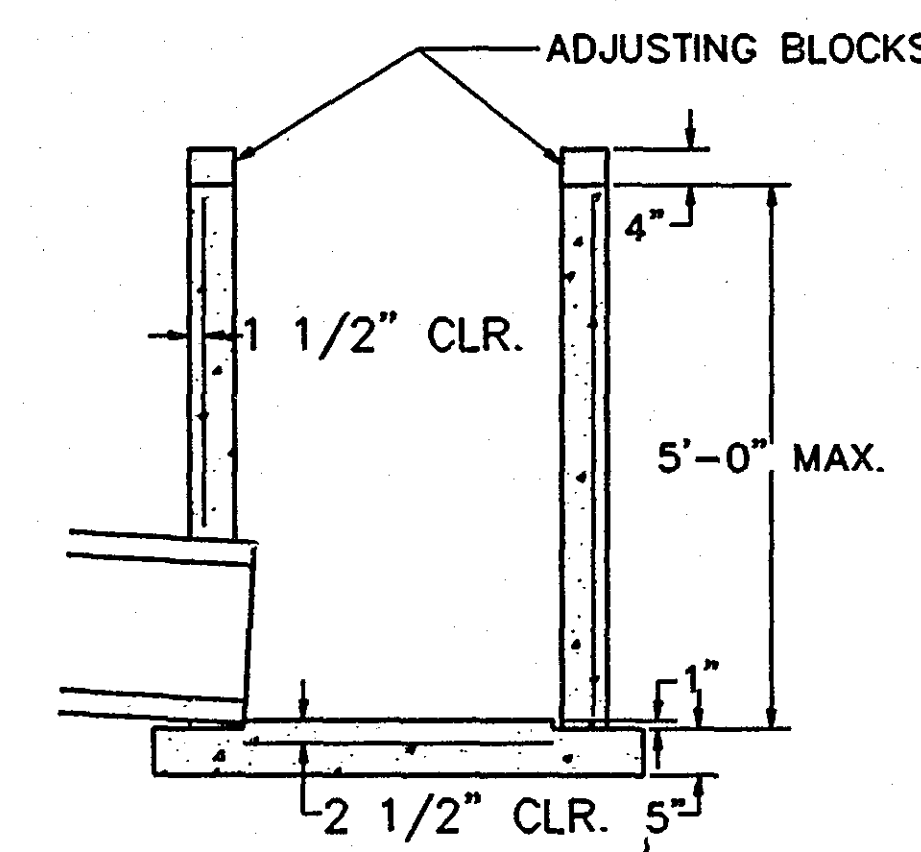
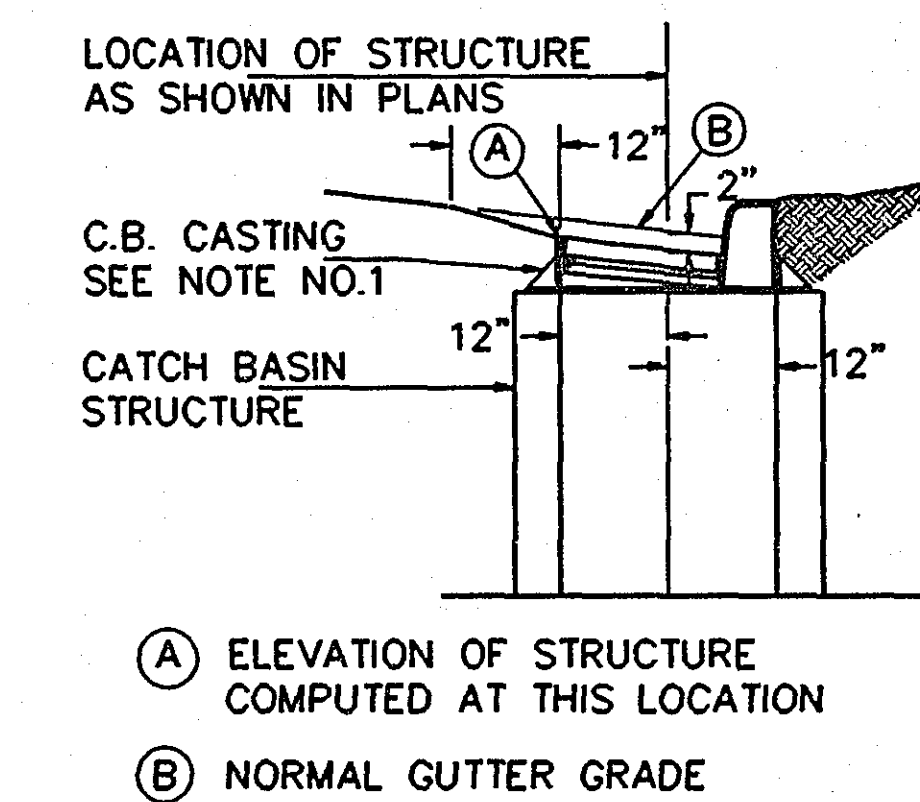


CATCH-BASIN DESIGN SP-2

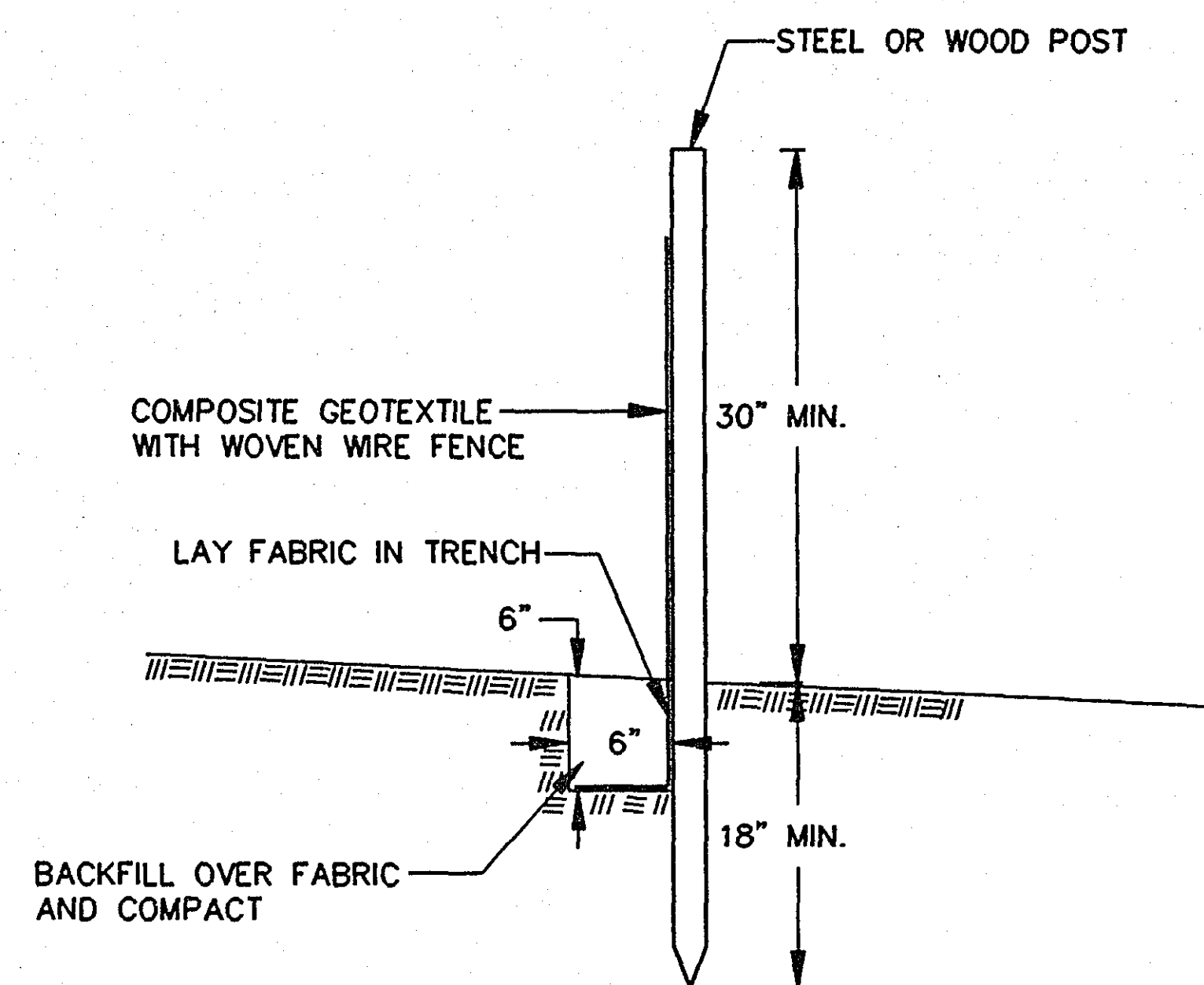


NOTES

- 1 TO BE USED WITH NEENAH R-3067-V OR EQUIVALENT.
- 2 PIPE CUT-OUTS TO BE LOCATED WHERE REQUIRED.
- 3 ALTERNATE CAST-IN-PLACE BASE SLAB CAN BE USED.
- 4 INSTALL AS PER MN/DOT STANDARD PLATE NO. 7111
- 5 REINFORCING: SINGLE LINE STEEL WIRE FABRIC. W3.0 X W3.0 HAVING AN AREA OF NOT LESS THAN 0.21 SQ. IN. PER FOOT.
- 6 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.
- 7 ADJUSTING RINGS SHALL BE LIMITED TO PROVIDE A MAXIMUM THICKNESS OF 6" INCLUDING MORTAR THICKNESS.



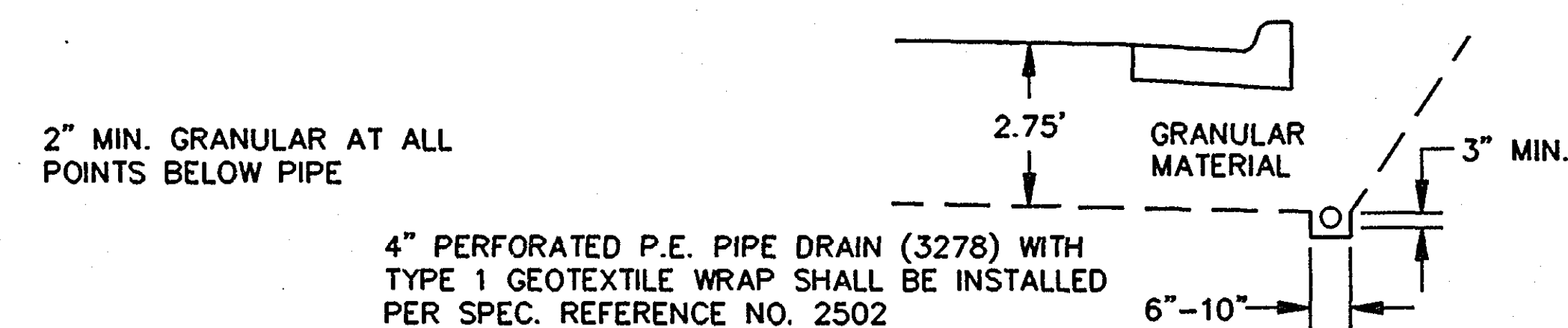
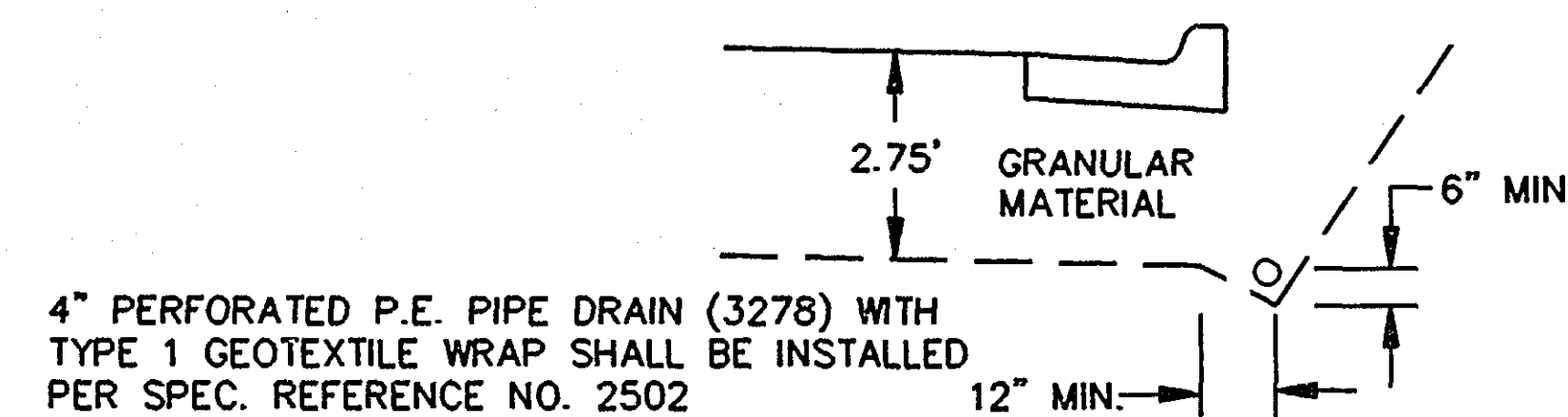
HEAVY DUTY SILT FENCE INSTALLATION



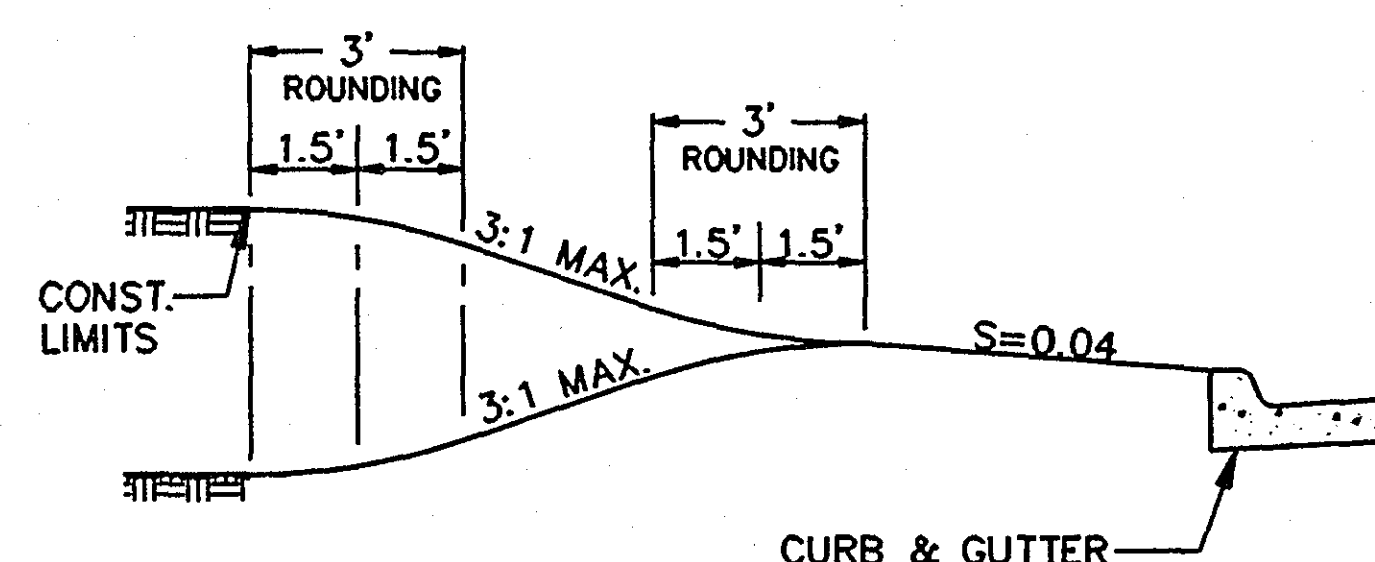
SEE CHART SHEET 11 FOR LOCATION

4" LONGITUDINAL P.E. PIPE DETAIL – SUBCUT DRAINAGE

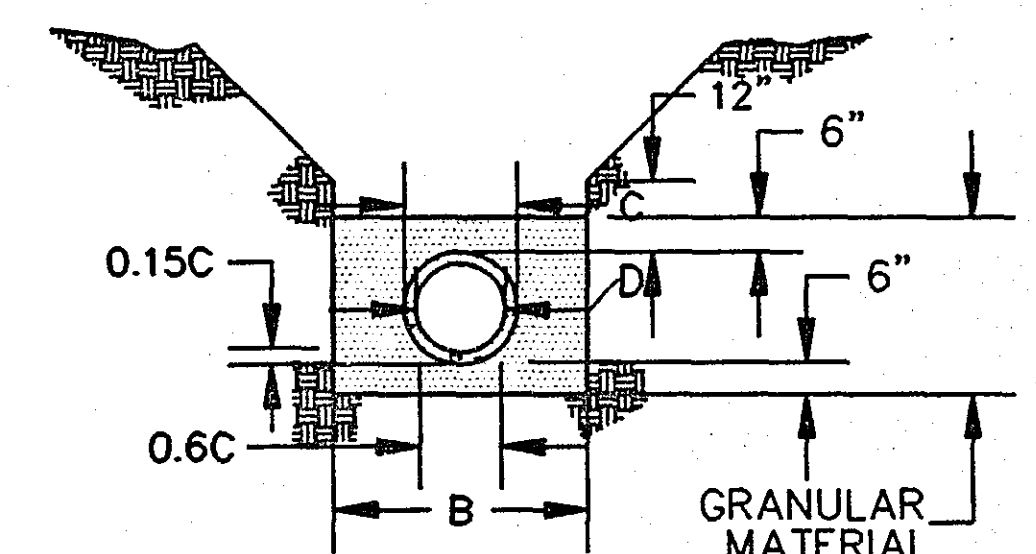
SEE CHART SHEET 11 FOR LOCATION



SLOPE ROUNDING DETAIL



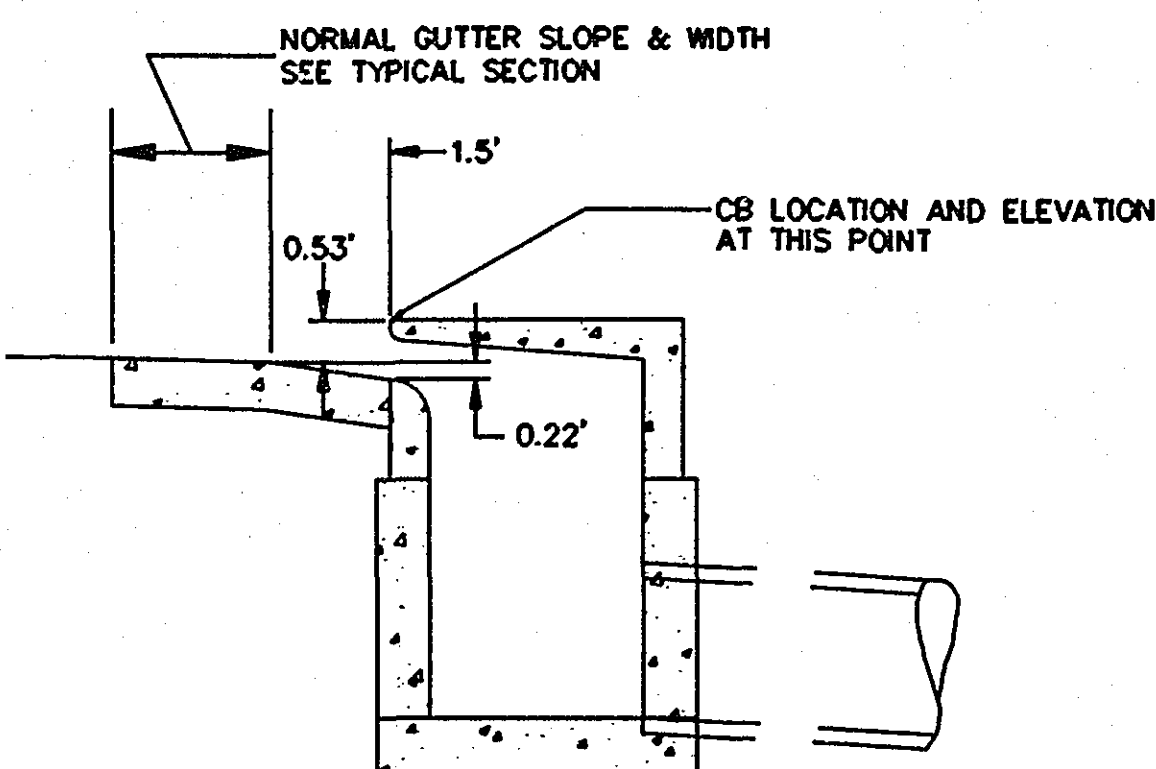
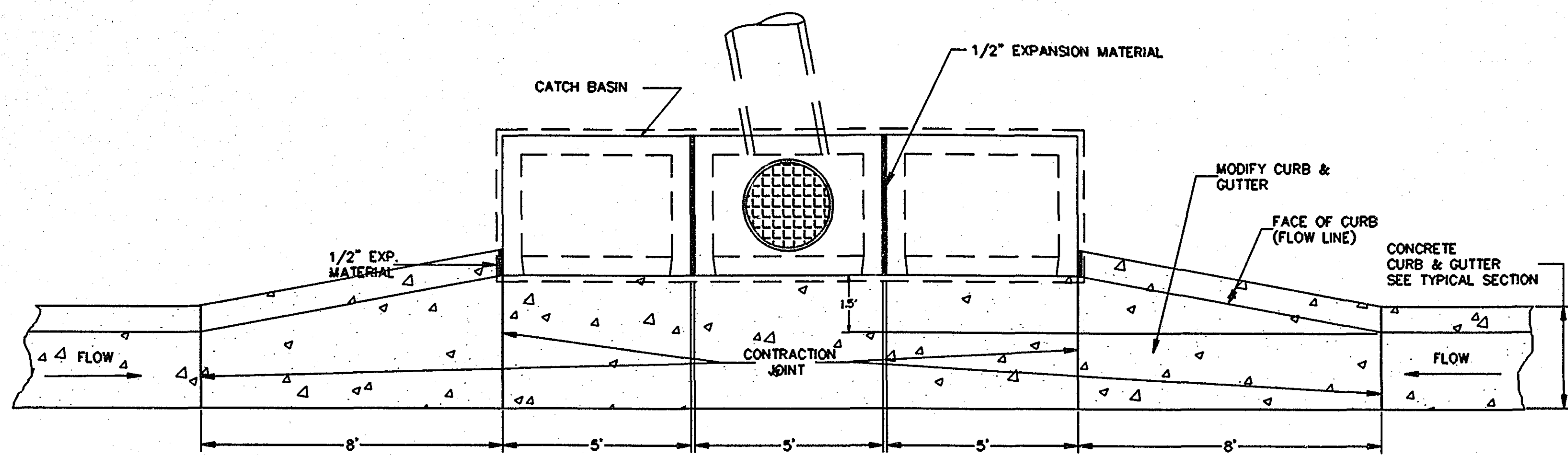
SANITARY SEWER PIPE BEDDING & HAUNCHING DETAIL



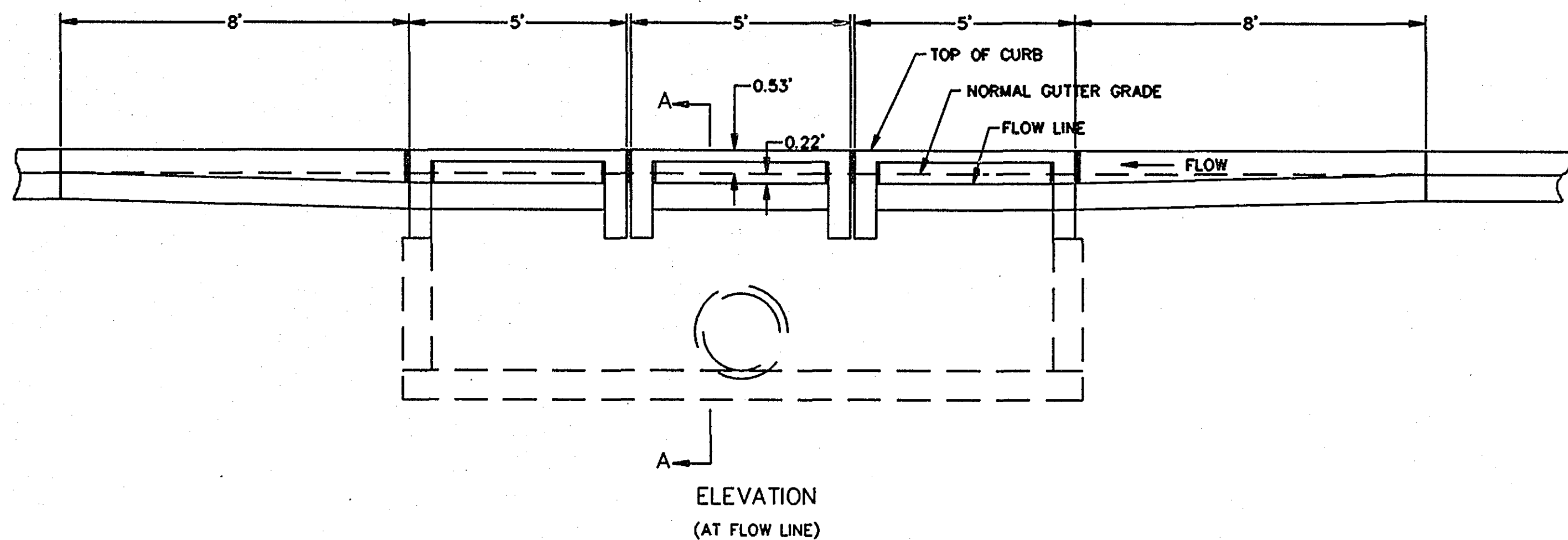
PIPE DIA.	B
36" OR LESS	C+24"
42" TO 54"	1.5XC
60" OR OVER	C+36"

TRENCH WIDTH REQUIREMENTS AS SHOWN DO NOT APPLY FOR OVERFILLS LESS THAN 15"

CURB OPENING CATCH BASIN – DESIGN LP12 (4021)
CONSTRUCTION DETAIL



SECTION A-A



NOTES

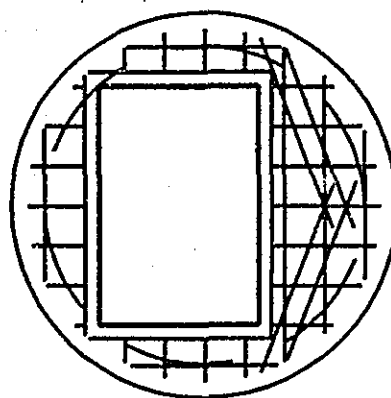
- 1 CATCH BASIN - DESIGN LP - SEE MN/DOT STD. PL. NO. 4021.
- 2 TOP OF CATCH BASIN SHALL BE INSTALLED AT SAME SLOPE AS BLVD. GRADES AND TOP OF CURB GRADE EACH SIDE OF STRUCTURE.
- 3 ELEVATION OF STRUCTURE IS COMPUTED AT LOCATION SHOWN IN SEC. A-A AT C. OF C.B. OPENING.

CATCH-BASIN DESIGN SP2-W-4020

ADD 2 BARS ON EACH SIDE 6" D.C. 5'6" LONG CUT TO SUIT ROUNDING

ADD 3 BARS ON EACH END 6" D.C. 4' LONG

ADD 2 BARS ON EACH CORNER 3" D.C. 4' LONG CUT TO SUIT ROUNDING



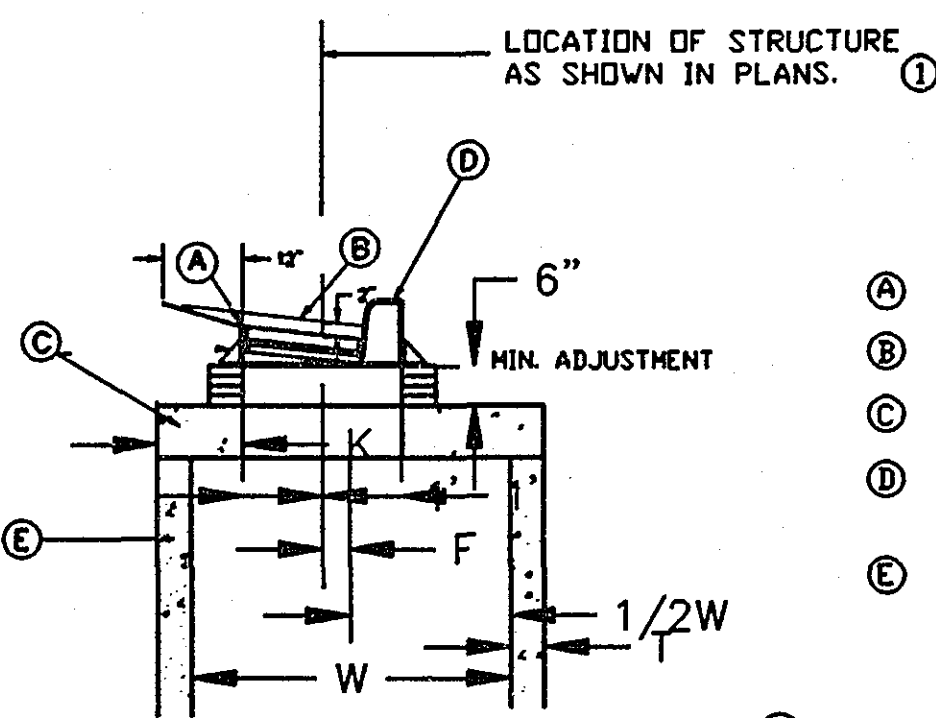
ALL BARS GRADE 60 NO. 4 6"D.C. EACH WAY

CONCRETE 5000 P.S.I.

STRUCTURE DIMENSION CHART

	W	48"	54"	60"	72"
K	14"	14"	14"	13"	
F	3"	7"	11"	18"	

CATCH BASIN COVER SLAB

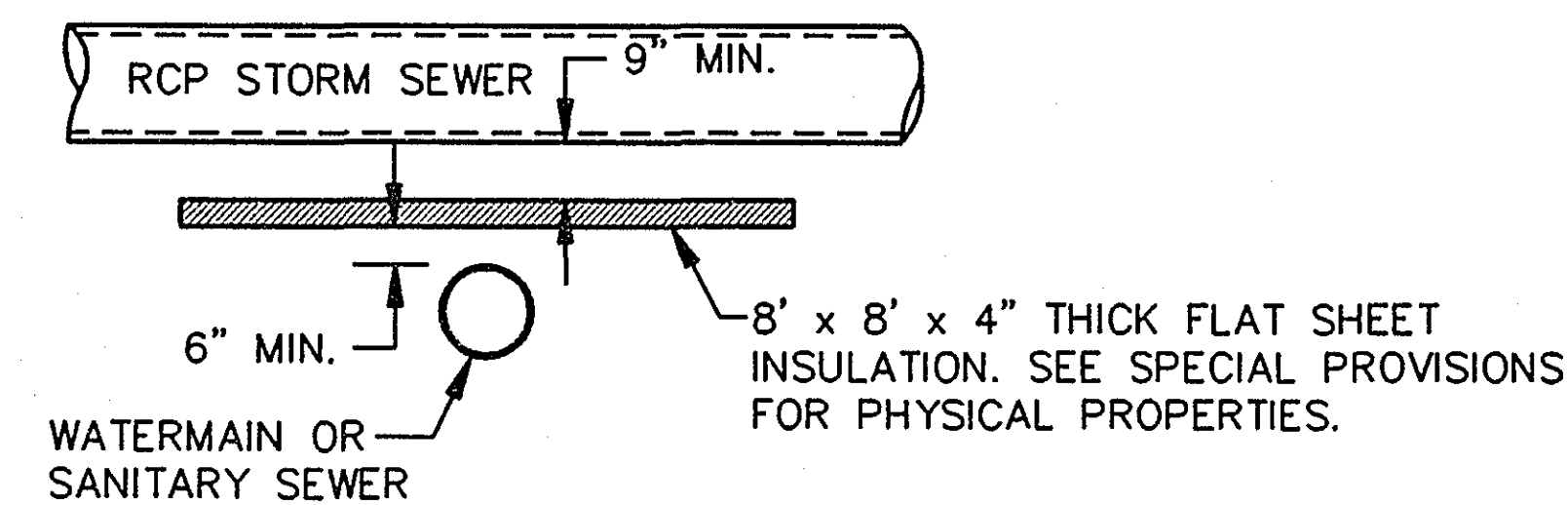


SECTIONAL VIEW CATCH BASIN

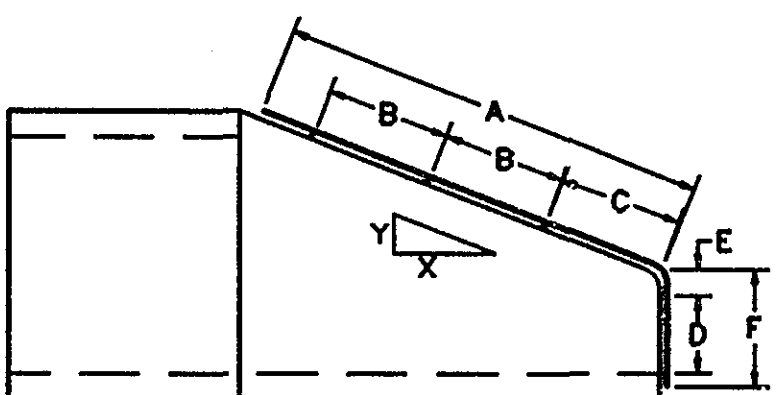
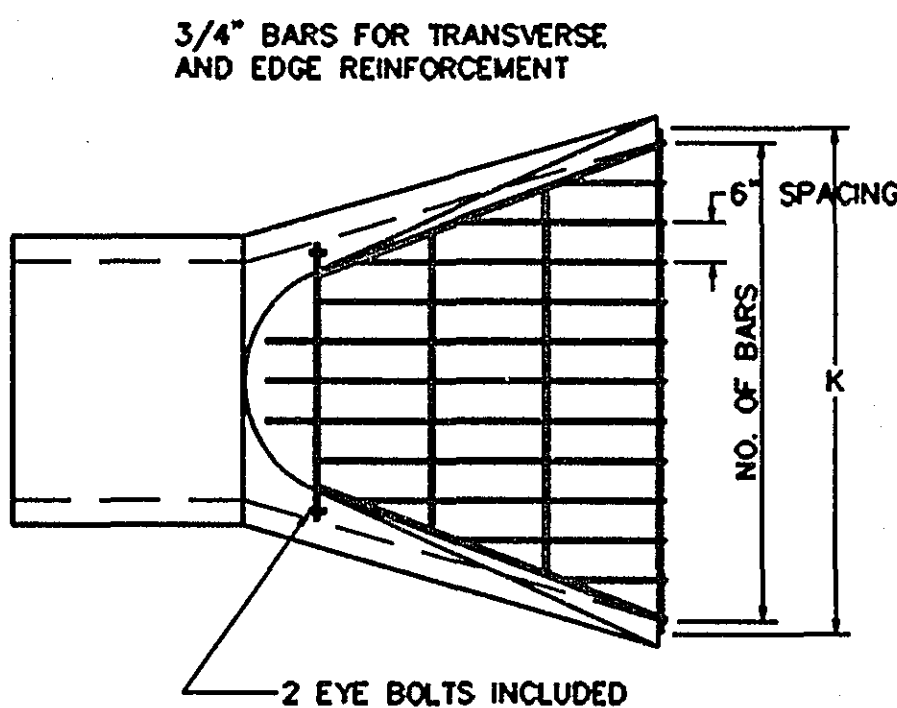
NOTES

- A ELEVATION OF STRUCTURE
 - B NORMAL GUTTER GRADE
 - C SEE COVER DETAIL
 - D CASTING ASSEMBLY - SEE DETAIL FOR DESIGN SP-2
 - E CATCH BASIN - DESIGN 4020 SEE STD. PLATE NO. 4020
- ① CENTER OF STRUCTURE FOR STAKING PURPOSES SHALL BE LOCATION OF STRUCTURE AS SHOWN IN PLANS, PLUS DISTANCE F.

4" POLYSTYRENE INSULATION DETAIL



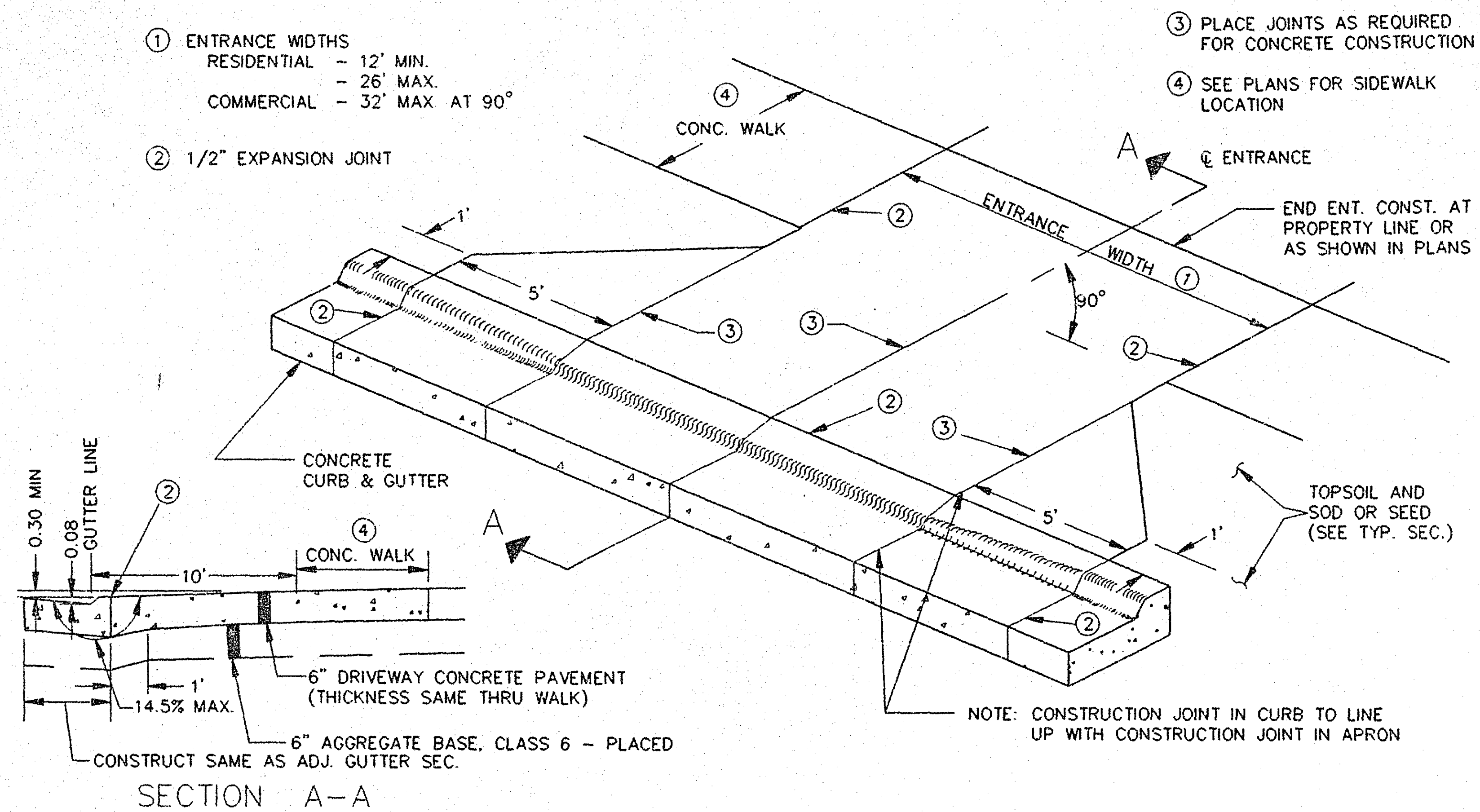
NOTE: PLACE MINIMUM 6" COMPACTED GRANULAR MATERIAL ABOVE AND BELOW INSULATION. PAYMENT SHALL BE INCLUDED IN THE PRICE OF INSULATION BY THE SQUARE YARD.



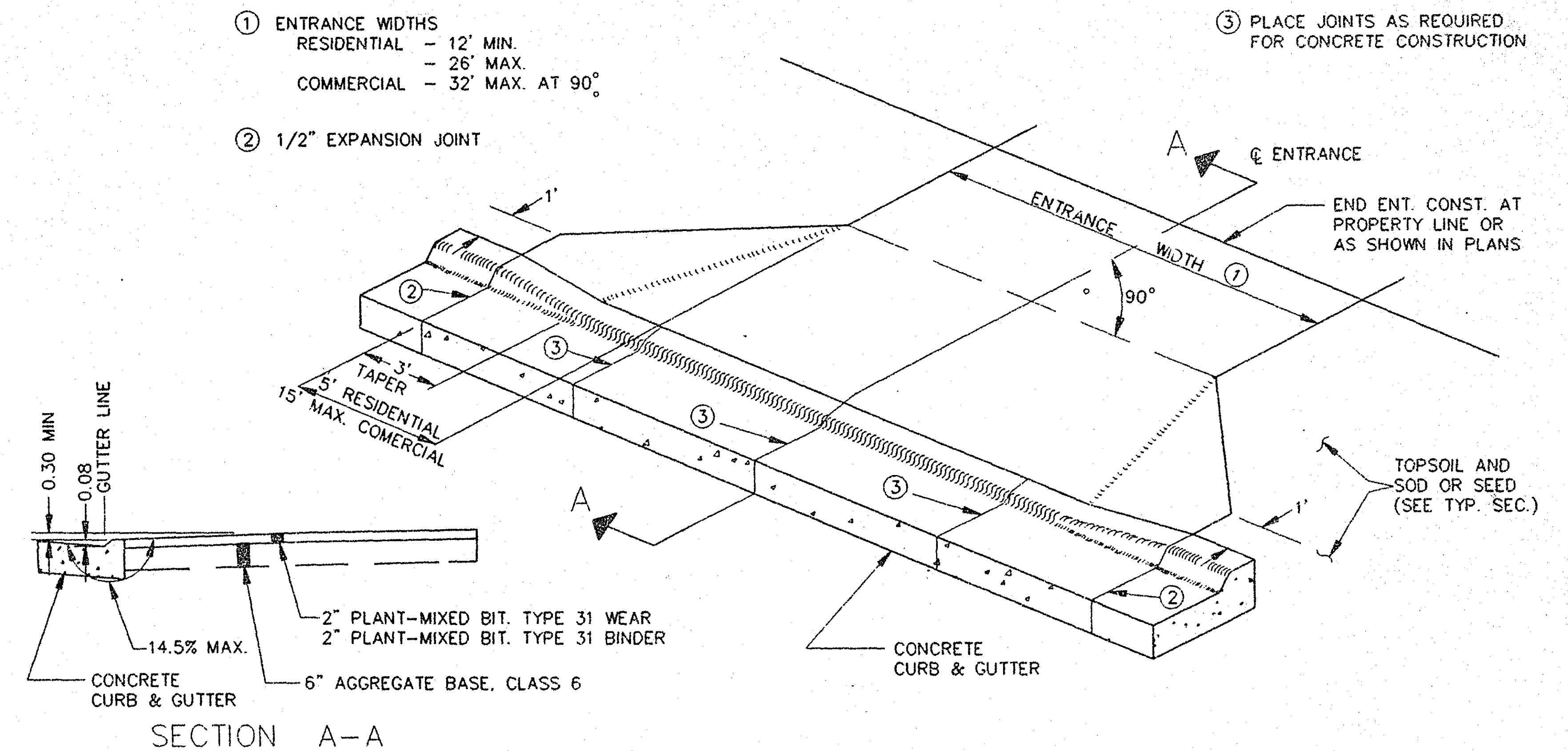
SIZE	NO. OF BARS	X-Y SLOPE	A	B	C	D	E	F	K
12"	5	3 to 1	24"	7"	6"	5"	2"	8"	30"
15"	6	3 to 1	24"	7"	6"	5"	2"	10"	34"
18"	7	3 to 1	24"	7"	6"	5"	3"	12"	40"
21"	8	3 to 1	36"	11"	10"	7"	3"	12"	50"
24"	9	3 to 1	44"	14"	12"	10"	4"	16"	52"
27"	10	3 to 1	50"	16"	14"	10"	4"	16"	55"
30"	11	3 to 1	56"	18"	16"	12"	4"	18"	64"
36"	13	3 to 1	64"	20"	20"	12"	4"	18"	76"
42"	15	3 to 1	68"	22"	20"	14"	8"	26"	88"
48"	16	3 to 1	76"	24"	24"	16"	10"	28"	92"
54"	17	2.4:1	76"	24"	24"	16"	12"	32"	96"

TRASH GUARD (GALVANIZED)
(FOR CONCRETE APRON)

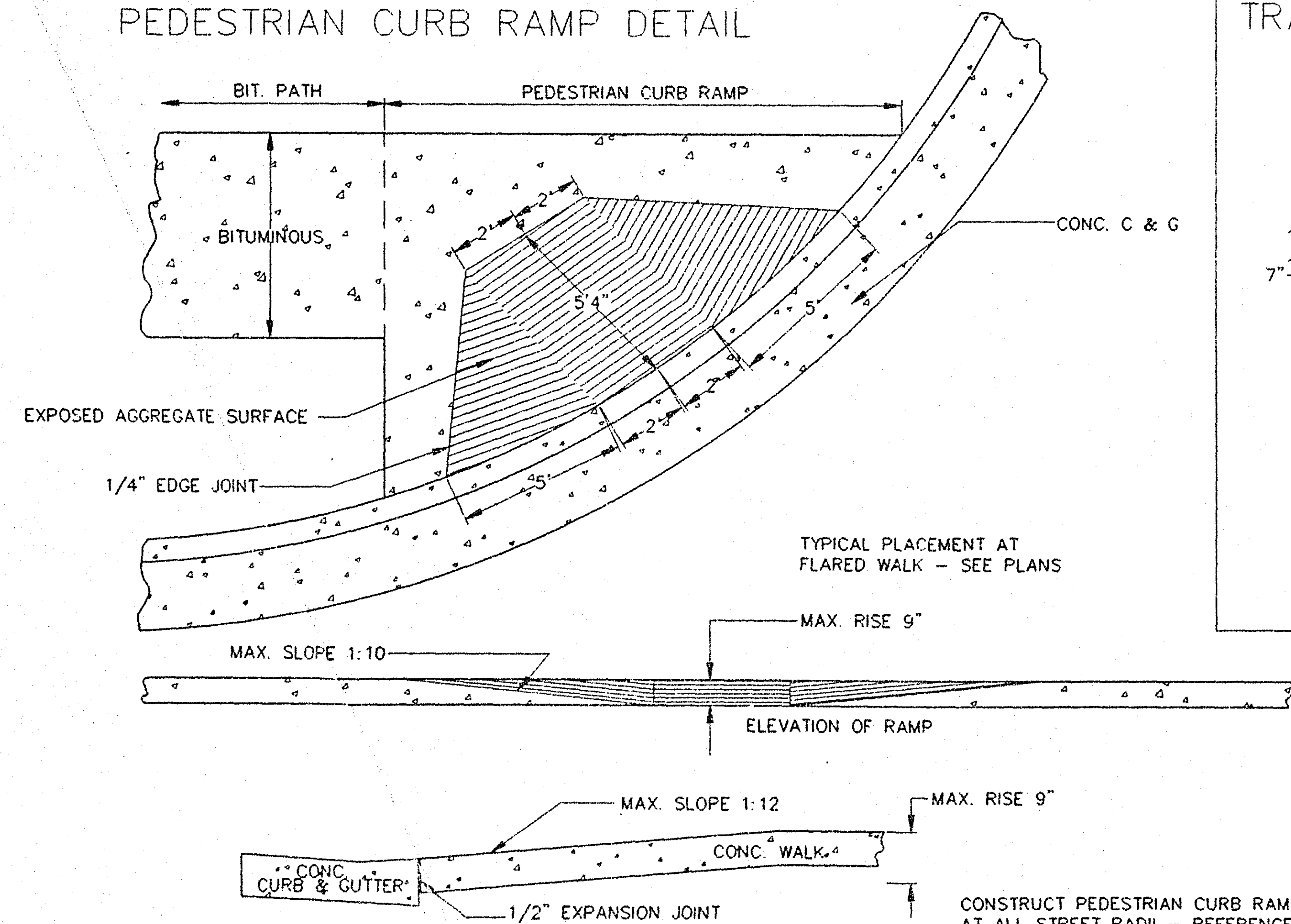
CONCRETE ENTRANCE DETAIL



BITUMINOUS ENTRANCE DETAIL



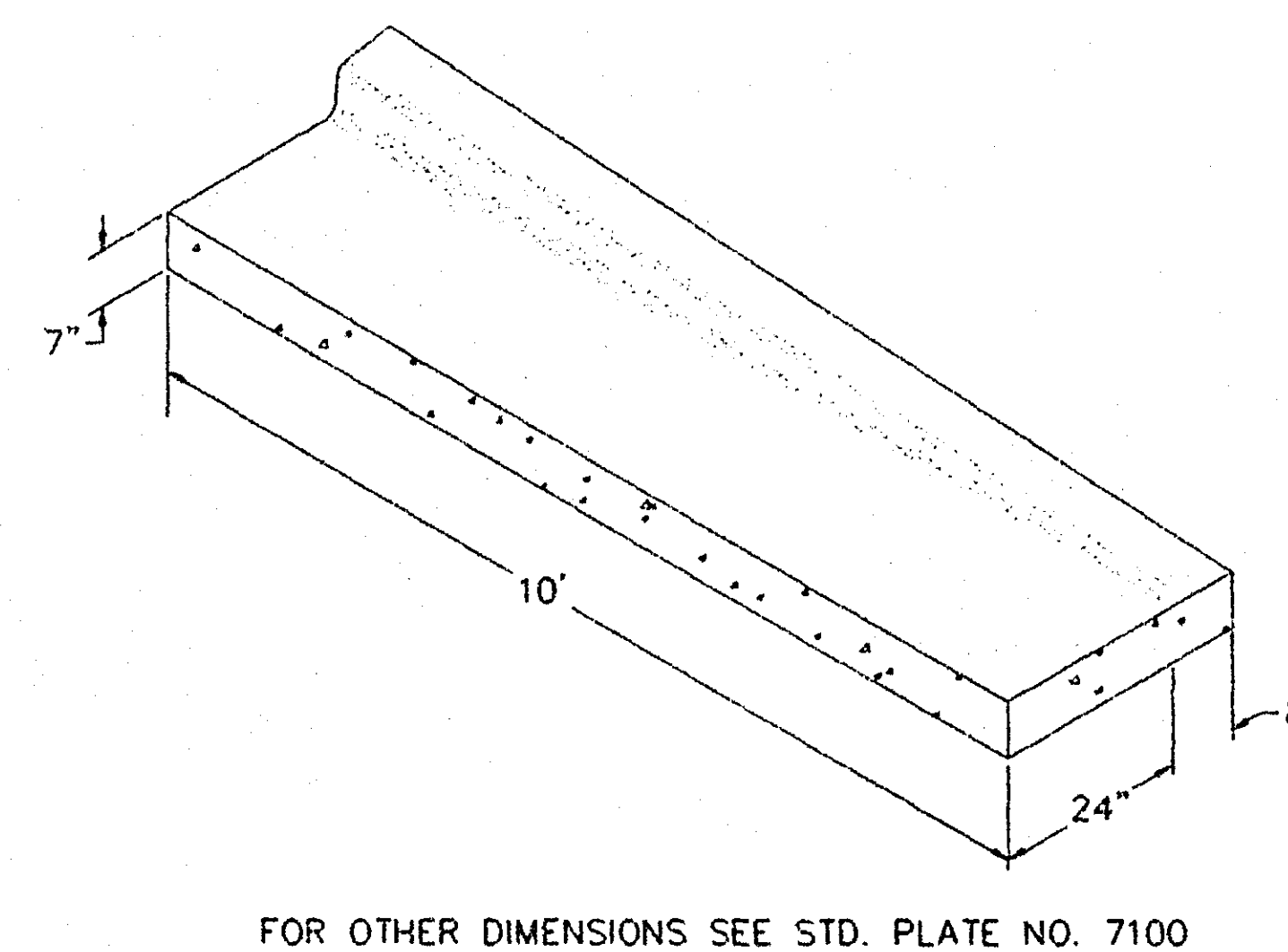
PEDESTRIAN CURB RAMP DETAIL



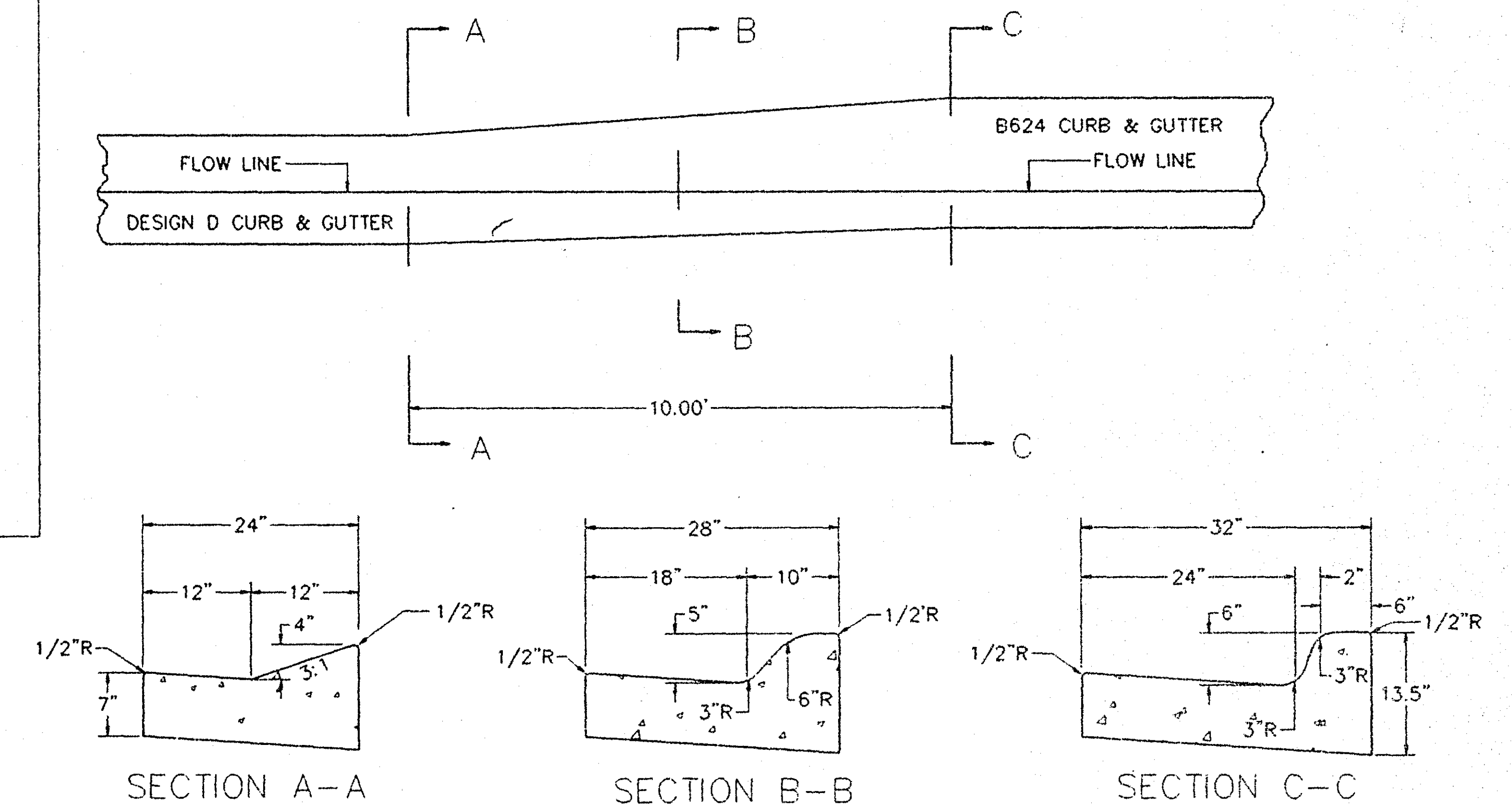
CURB RAMP DETAIL

CONSTRUCT PEDESTRIAN CURB RAMPS AT ALL STREET RADII - REFERENCE STANDARD PLATE NO. 7036D

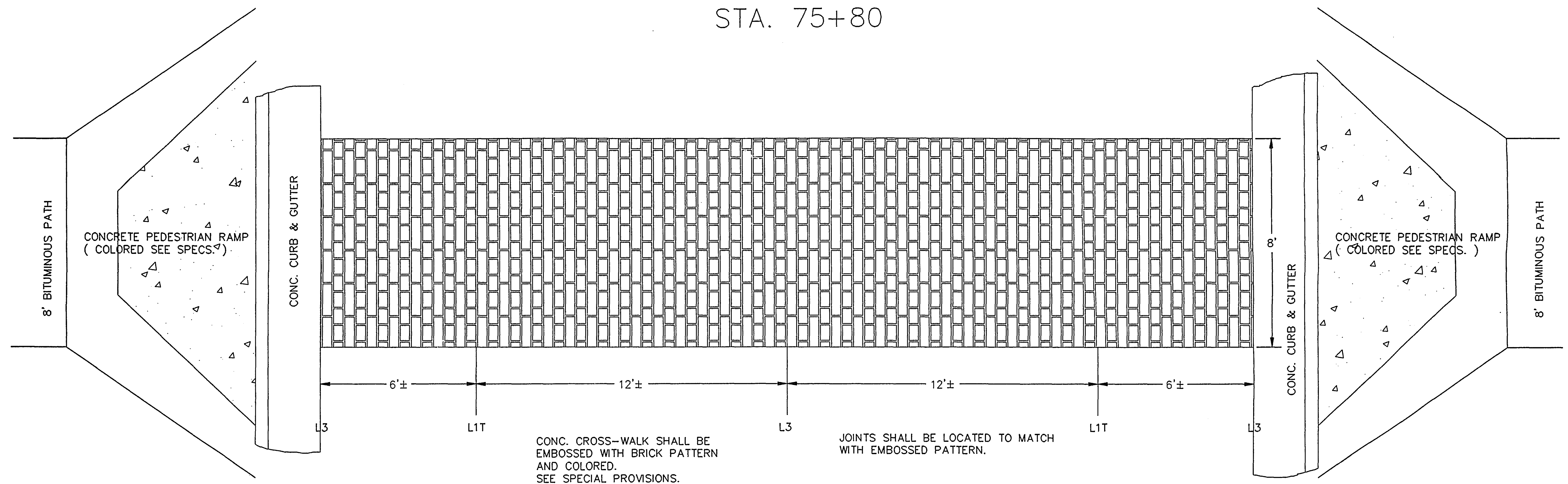
TRANSITION B624 VERTICAL TAPER



CURB TRANSITION - B624 C & G TO DESIGN D C & G

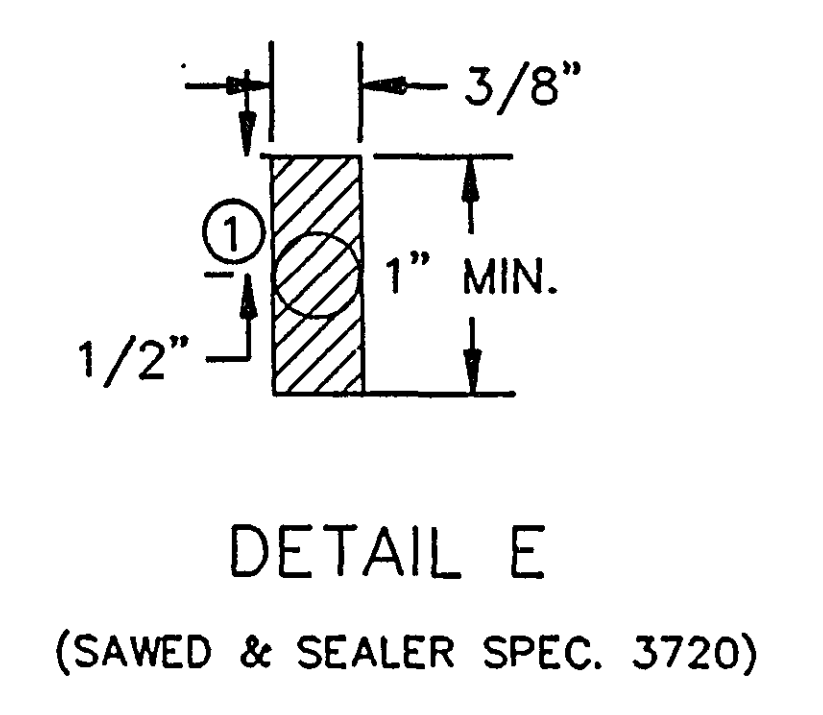
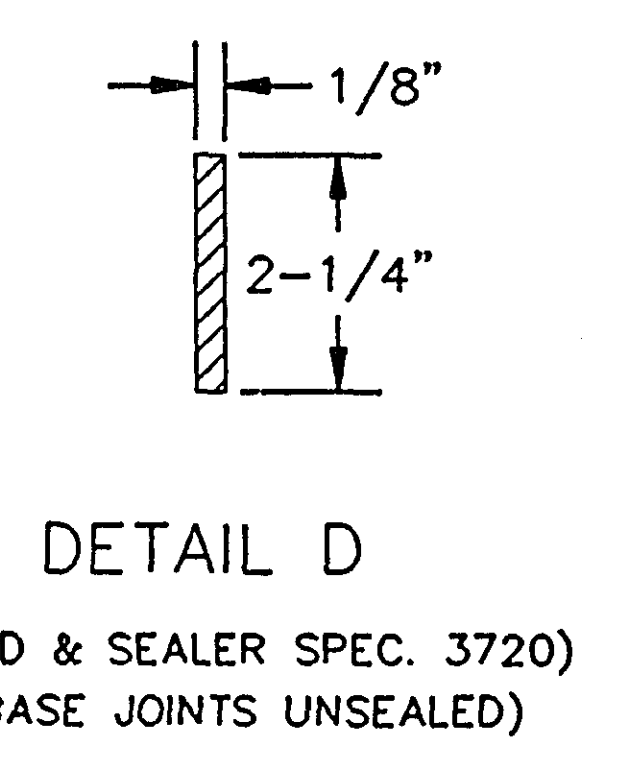
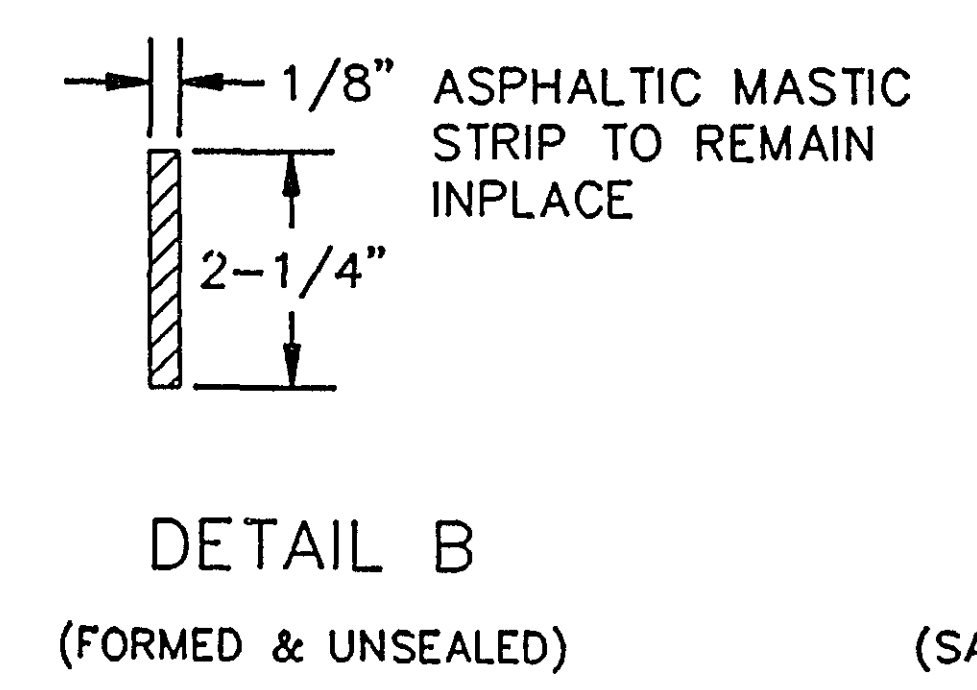
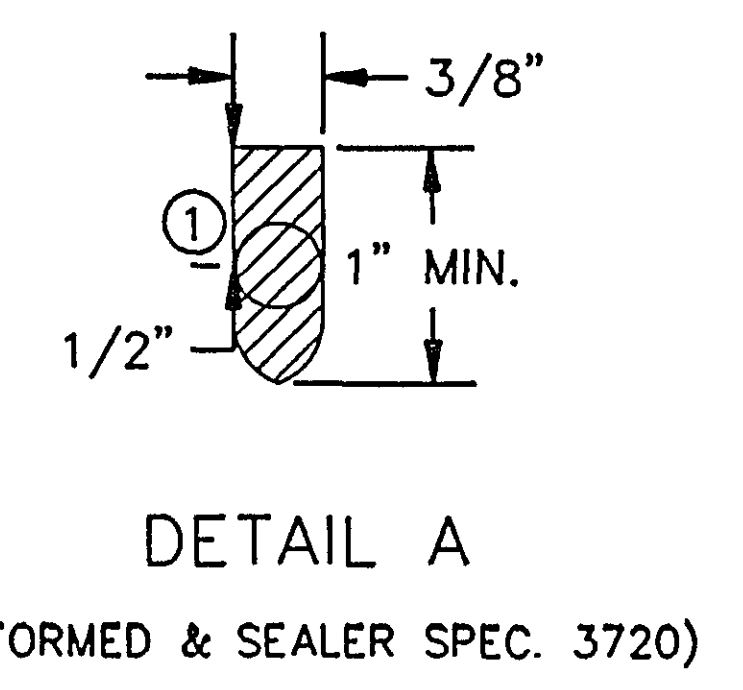
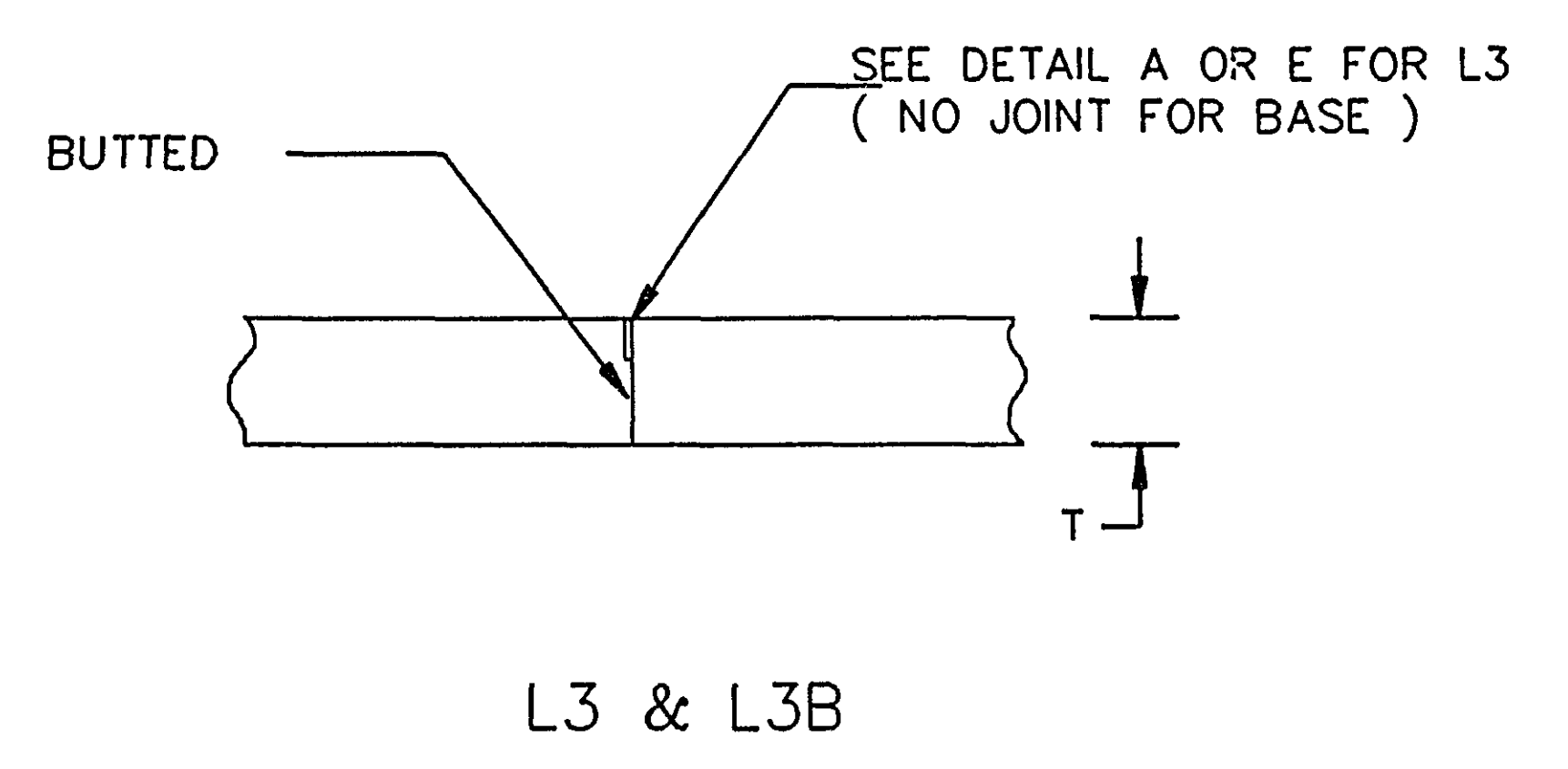
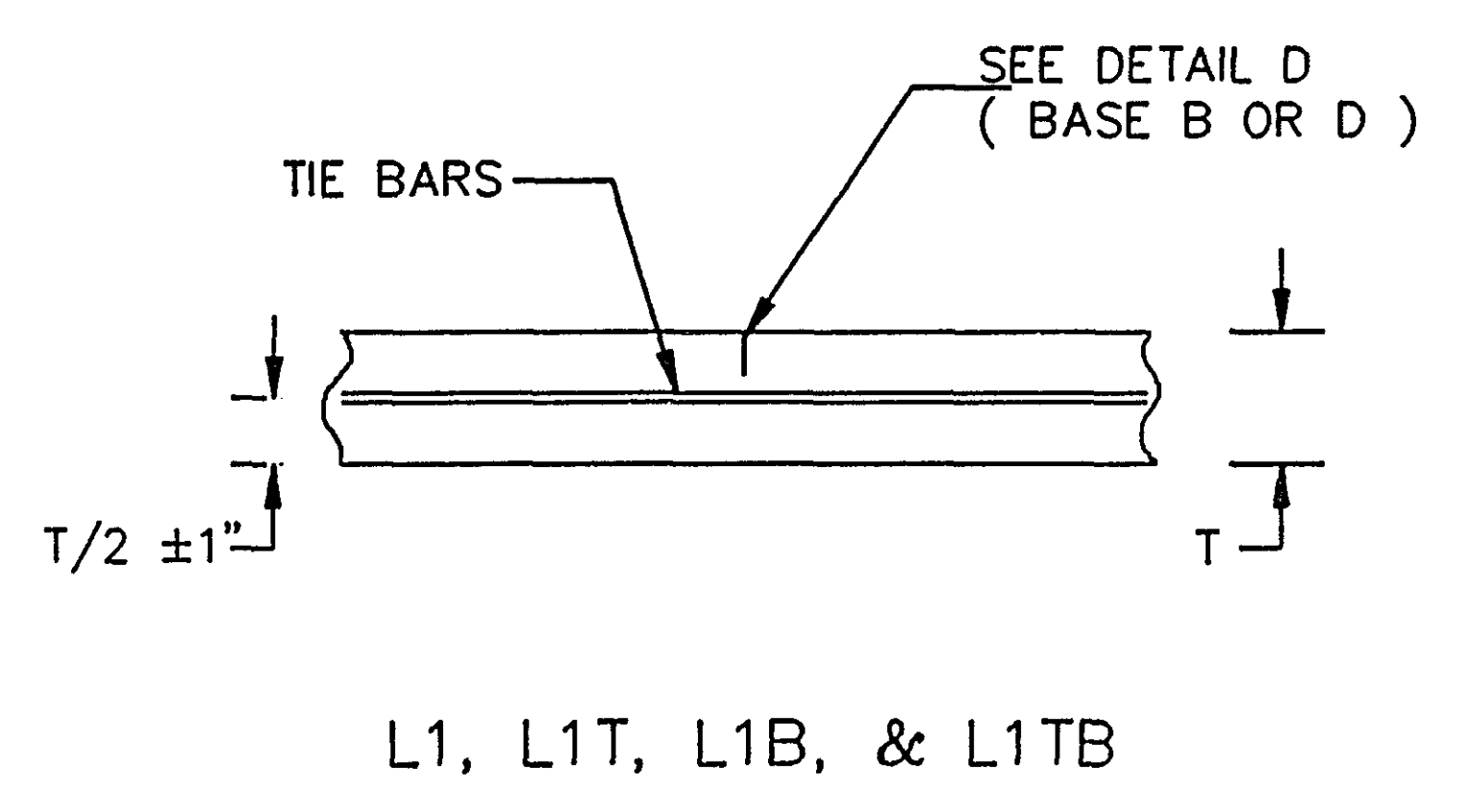
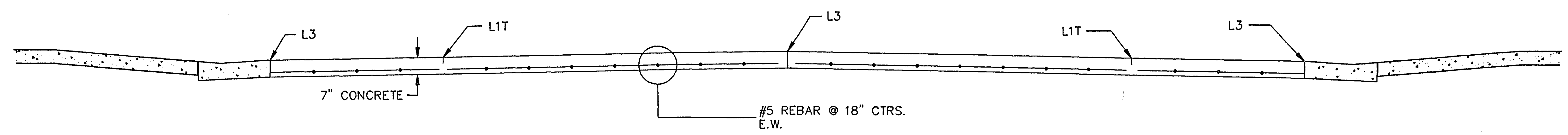


CONCRETE CROSS-WALK STA. 75+80



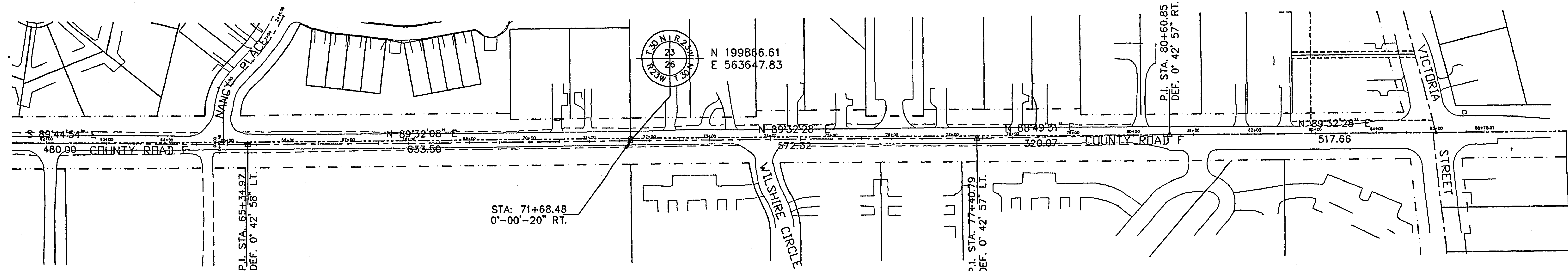
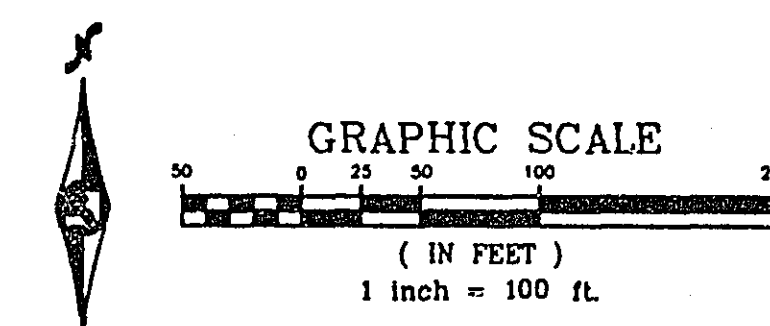
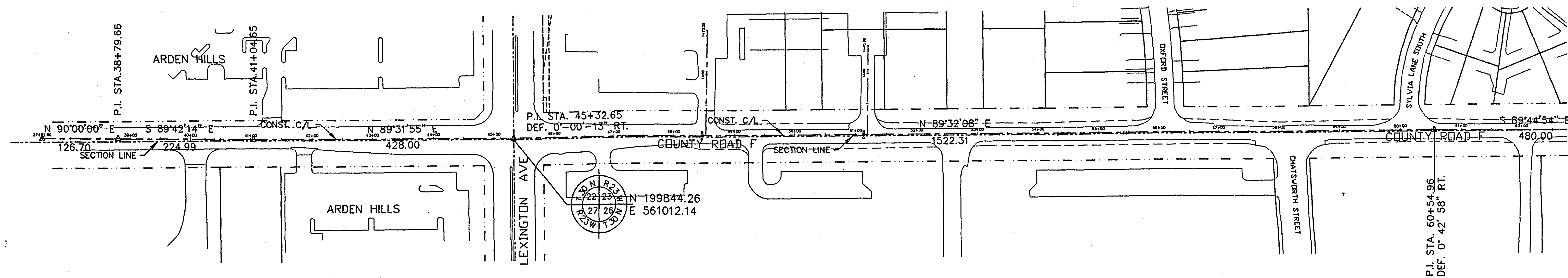
CONC. CROSS-WALK SHALL BE EMBOSSED WITH BRICK PATTERN AND COLORED. SEE SPECIAL PROVISIONS.

JOINTS SHALL BE LOCATED TO MATCH WITH EMBOSSED PATTERN.



① JUST PRIOR TO SEALING JOINT (DETAIL A & E) A PAPER ROPE WITH 1/8" LARGER DIAMETER THAN THE JOINT OPENING MAY BE PLACED 1/2" BELOW THE TOP OF THE PAVEMENT.

L:\CORDE\DETAILS 04/21/94

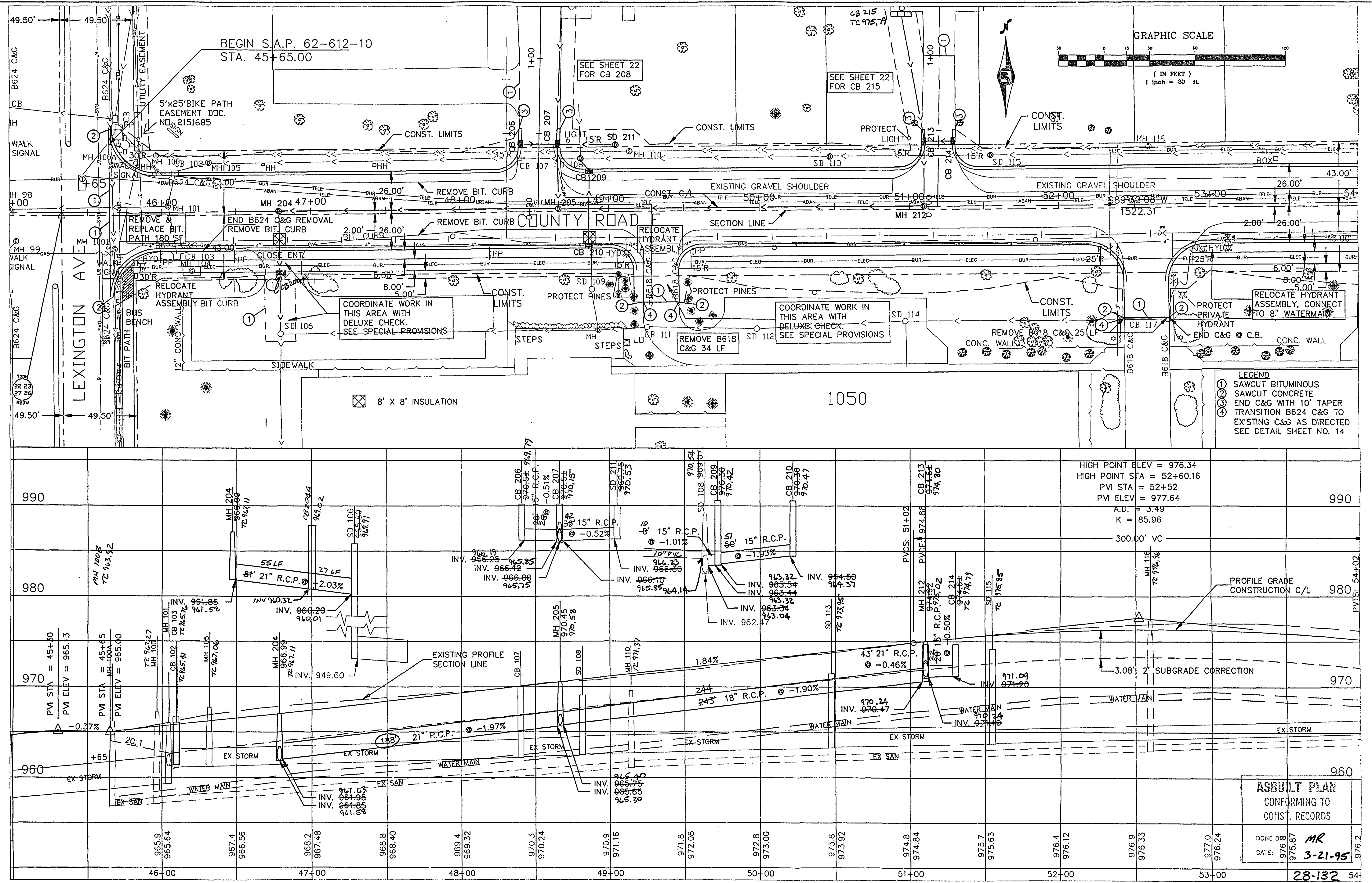


AD

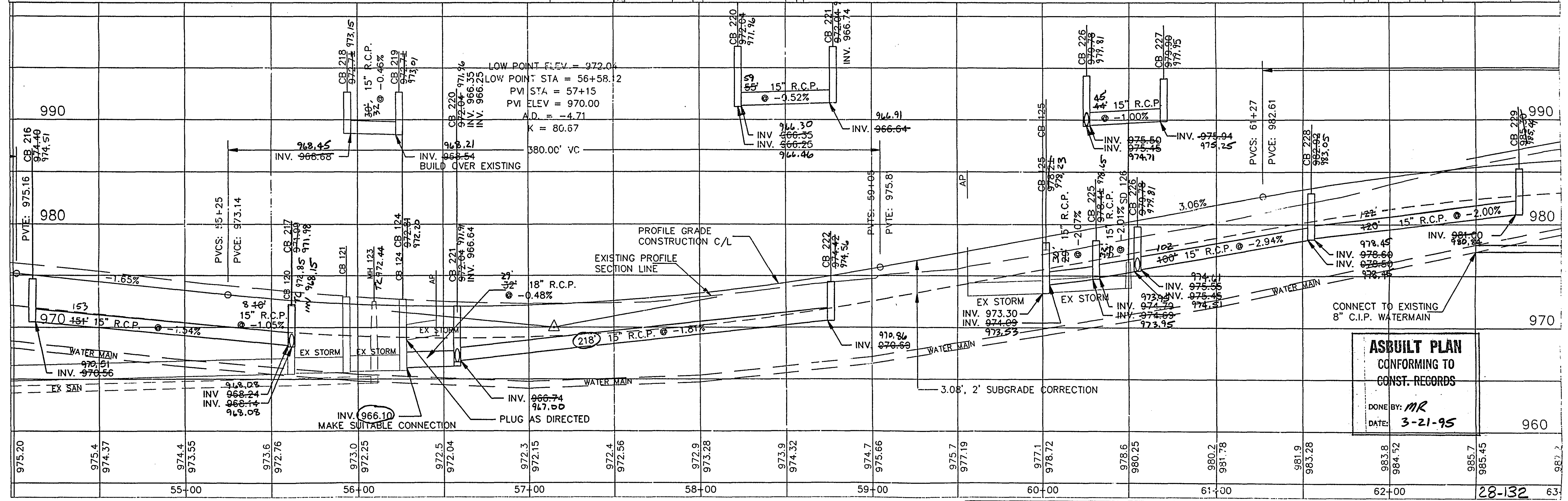
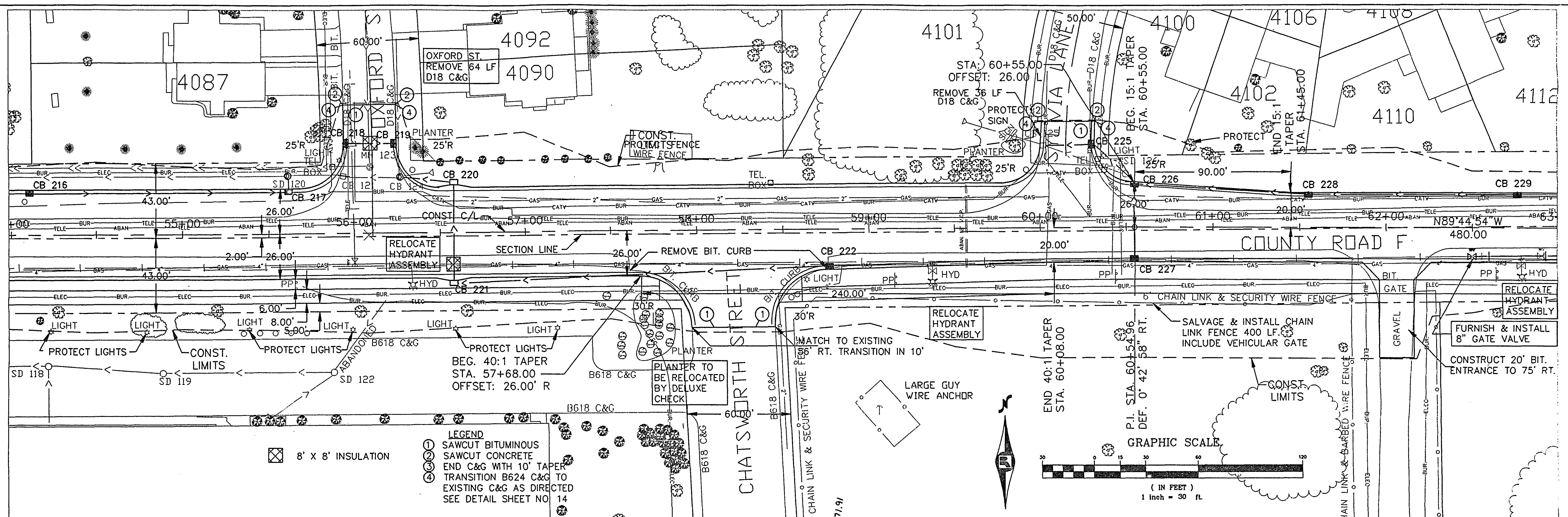
LOCATION-STATION	ELEVATION	ASBUILT ELEVATION
BRASS DISC IN SIDEWALK S.E. COR. OF BRIDGE LEXINGTON AVE. AND 1694	954.34	
TOP OF HYDRANT N.E. COR. OF LEXINGTON AVE. AND GRAMSIF RD.	951.48	
TOP OF HYDRANT ACROSS FROM LAND-O-LAKES ENTRANCE	950.69	
TOP OF HYDRANT N.E. COR. OF DELUXE CHECK ENTRANCE	955.53	
TOP OF HYDRANT S.E. COR. CO. RD. F AND LEXINGTON AVE.	966.88	
TOP OF HYDRANT STA. 39+50 RT. 30'	961.67	
TOP OF HYDRANT STA. 43+25 RT. 30'	963.99	
TOP OF HYDRANT STA. 49+12 RT. 27'	973.55	
TOP OF HYDRANT STA. 52+95 RT. 28'	978.89	
TOP OF HYDRANT STA. 56+35 RT. 28'	973.63	
TOP OF HYDRANT STA. 59+37 RT. 28'	976.82	
TOP OF HYDRANT STA. 62+80 RT. 27'	988.80	
TOP OF HYDRANT STA. 66+30 RT. 27'	984.48	
TOP OF HYDRANT STA. 70+28 RT. 27'	985.11	
TOP OF HYDRANT STA. 73+68 RT. 54'	980.16	
TOP OF HYDRANT STA. 77+39 RT. 34'	978.00	
TOP OF HYDRANT STA. 80+80 RT. 32'	982.97	

CURVE NO.	POINT TYPE	STATION	CURVE DATA					COORDINATES		AZIMUTH
			Δ	D	R	T	L	NORTHING	EASTING	
	P.O.T.	37+52.96						199844.91	560232.45	90°-00'-00"
	P.I.	38+79.66	0°-17'-46"					199844.91	560359.15	90°-17'-46"
	P.I.	41+04.65	0°-45'-51"					199843.75	560584.13	89°-31'-55"
	P.I.	45+32.65	0°-00'-13"					199847.25	561012.12	89°-32'-08"
	P.I.	60+54.96	0°-42'-58"					199859.58	562534.38	90°-15'-06"
	P.I.	65+34.97	0°-42'-58"					199857.48	563014.38	89°-32'-08"
	P.I.	71+68.47	0°-00'-20"					199862.61	563647.86	89°-32'-28"
	P.I.	77+40.79	0°-17'-03"					199867.19	564220.16	88°-49'-31"
	P.I.	80+60.85	0°-17'-03"					199873.75	564540.16	89°-32'-28"
	P.O.T.	85+78.51						199877.90	565057.80	

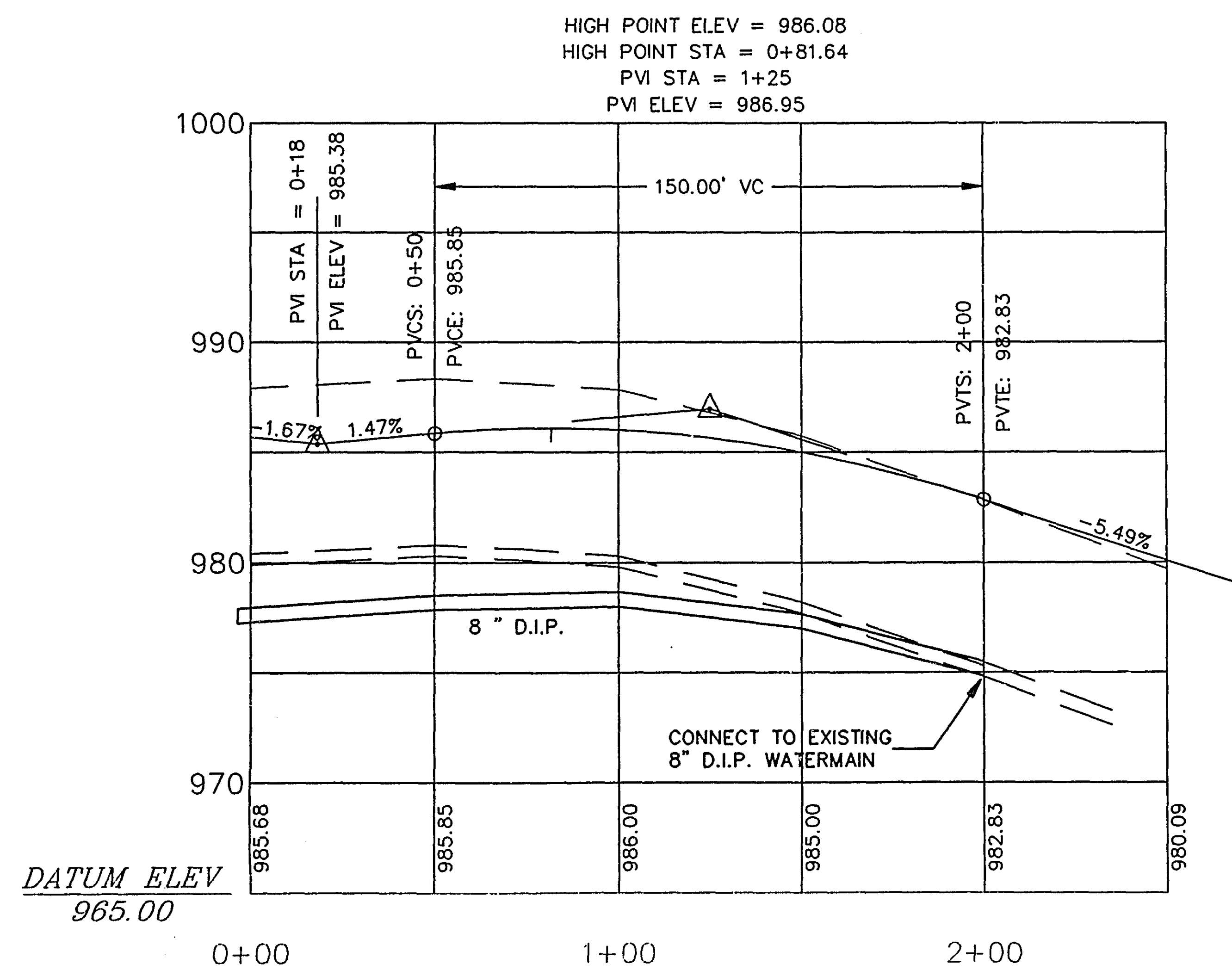
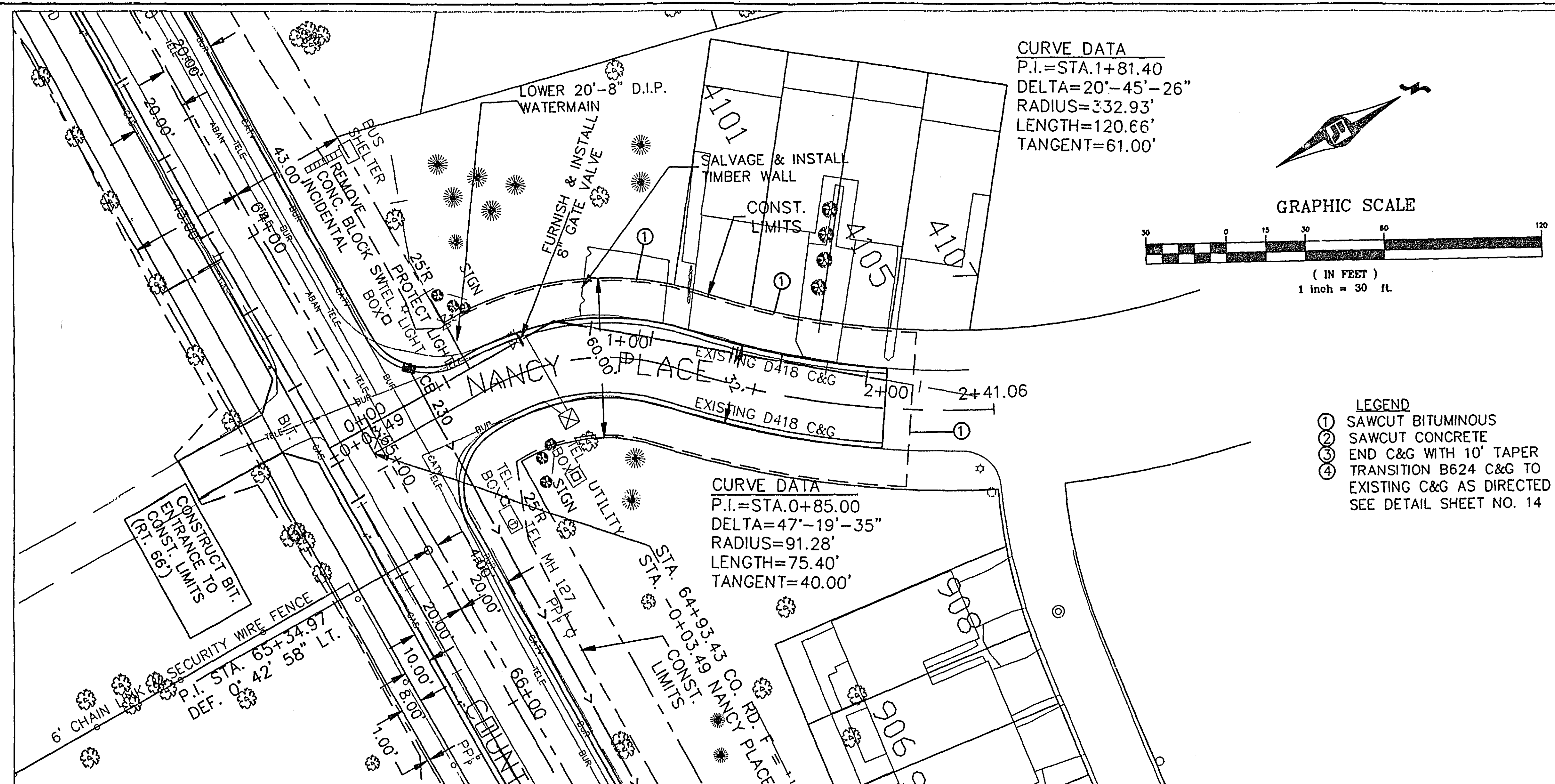
X:\CORDED\FTSTOP 04/21/94



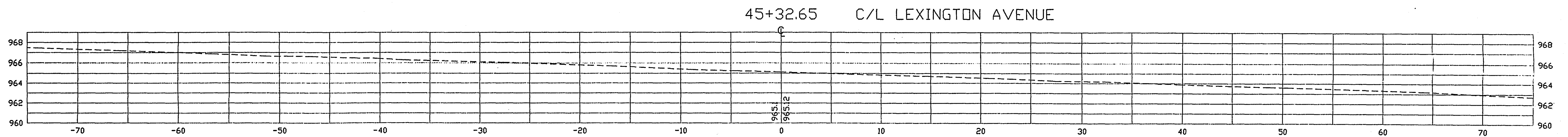
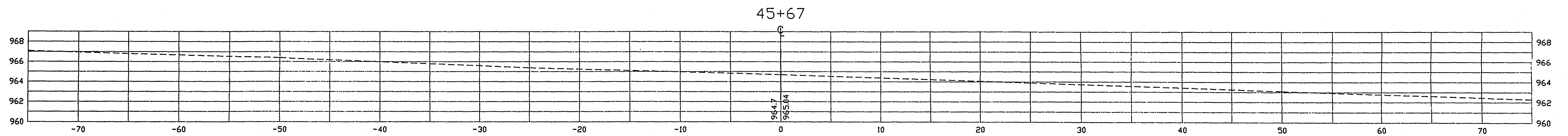
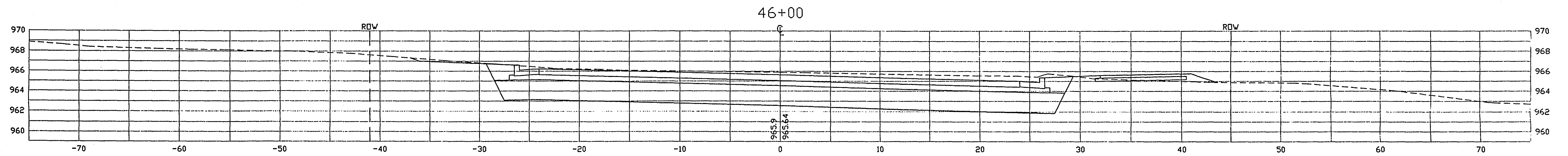
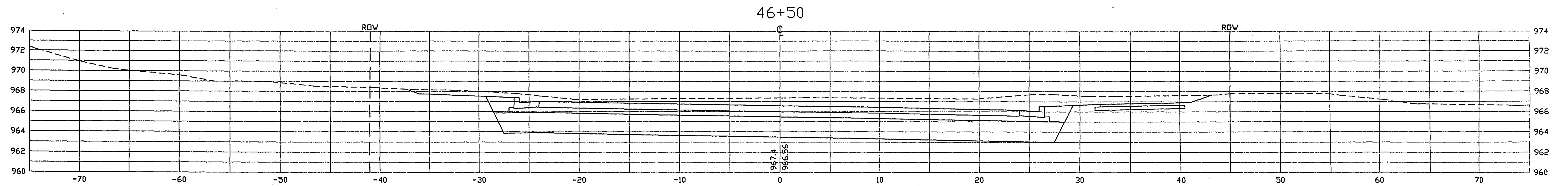
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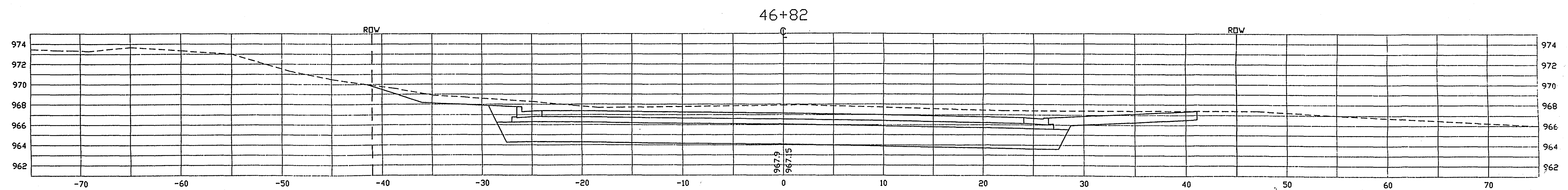
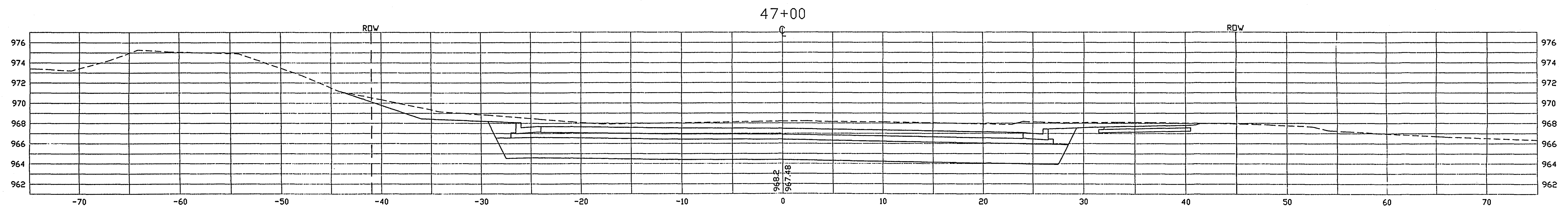
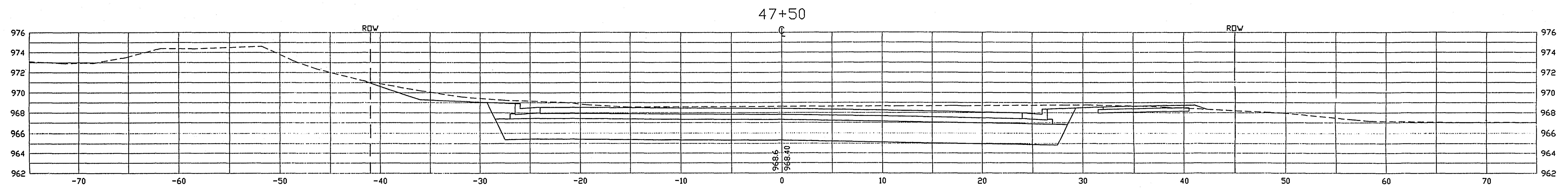
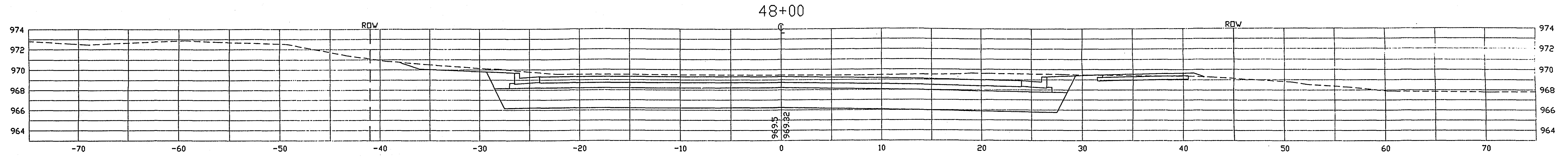


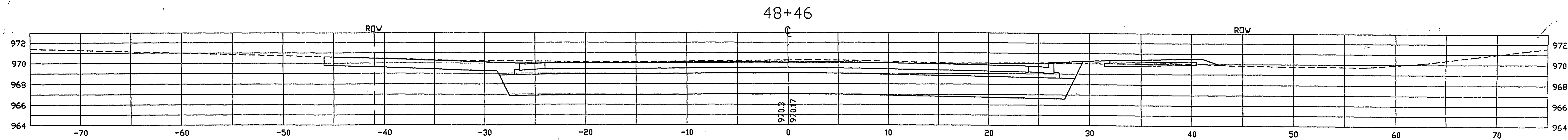
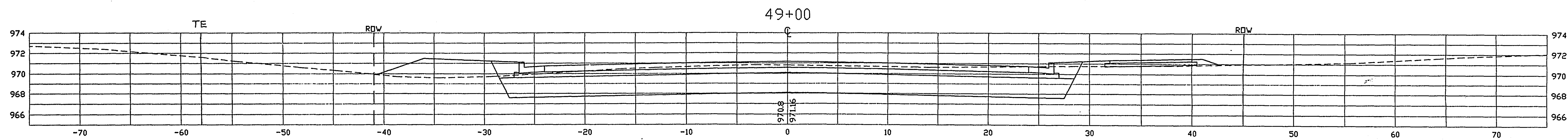
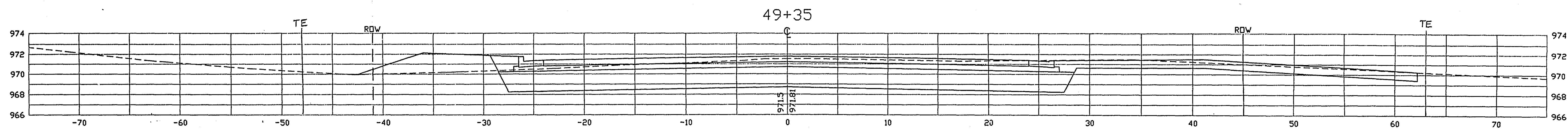
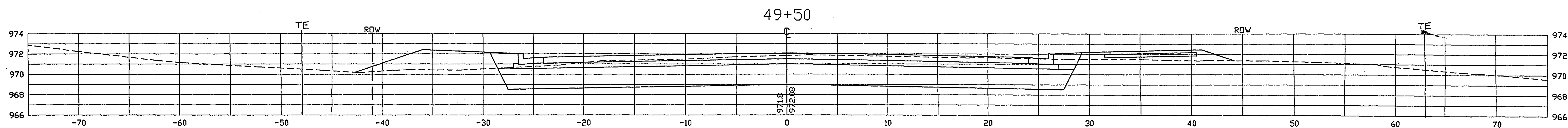
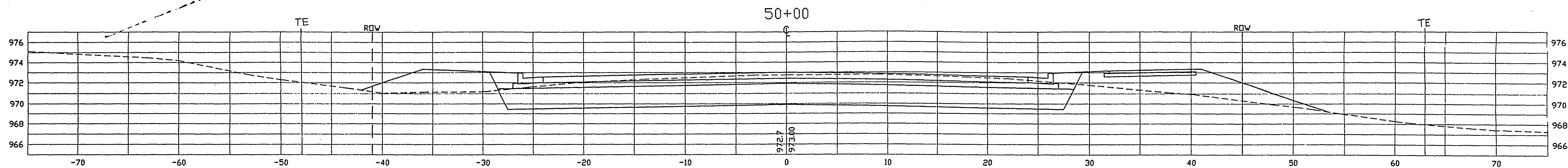
ASBUILT PLAN
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CONST. RECORDS
DONE BY: MR
DATE: 3-21-95



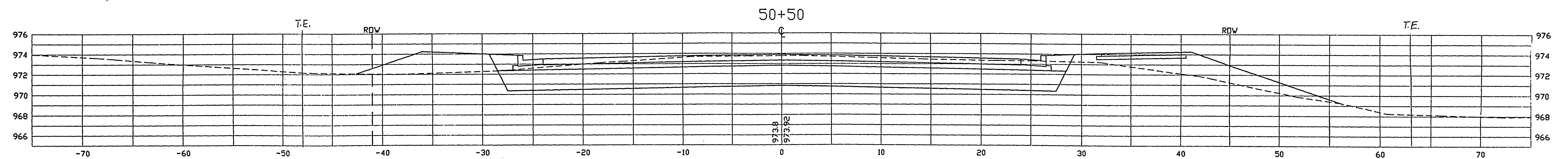
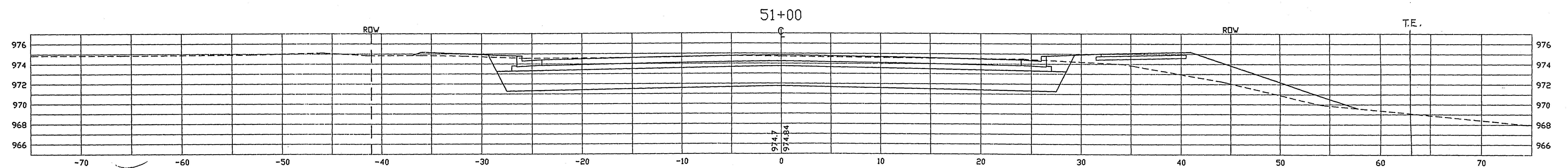
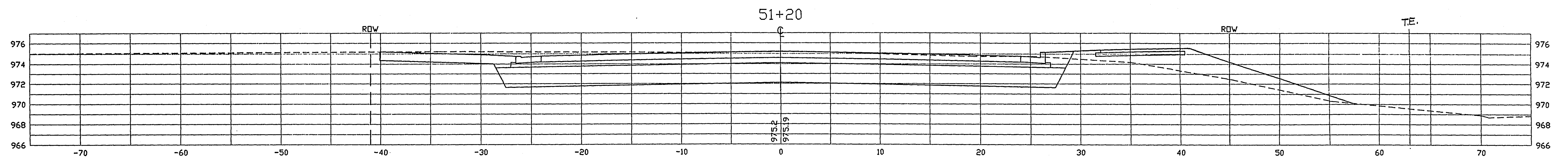
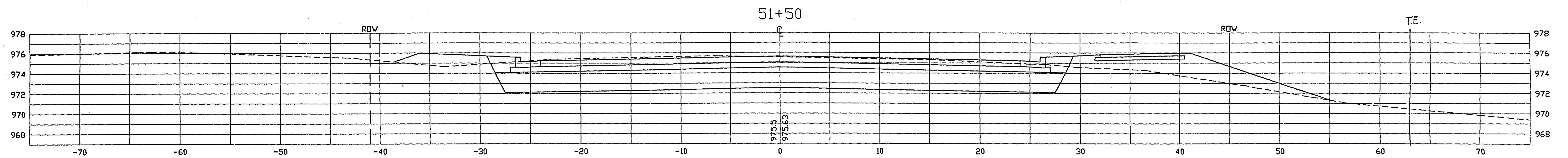
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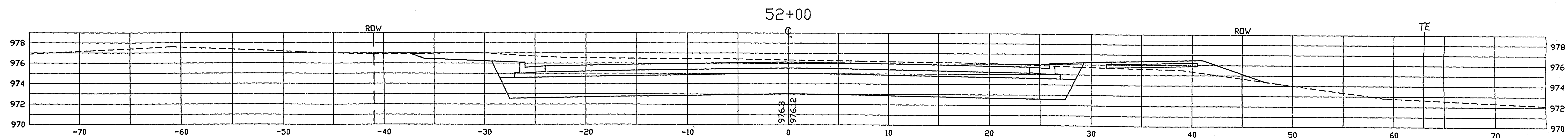
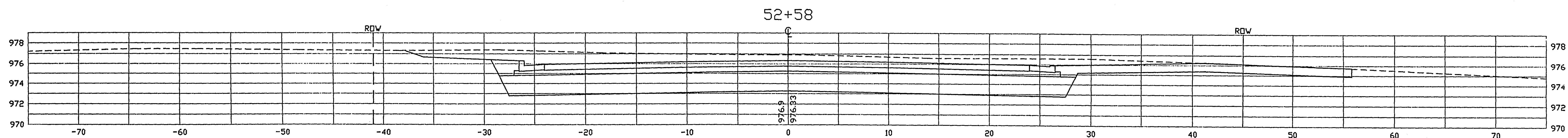
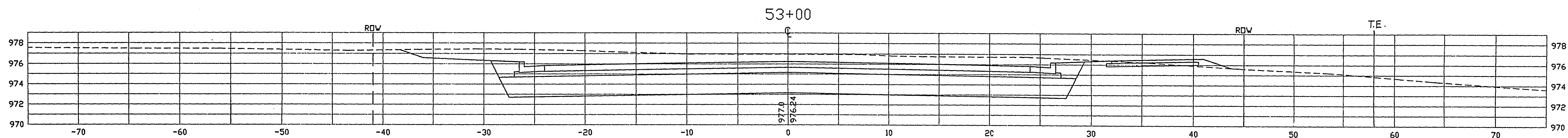
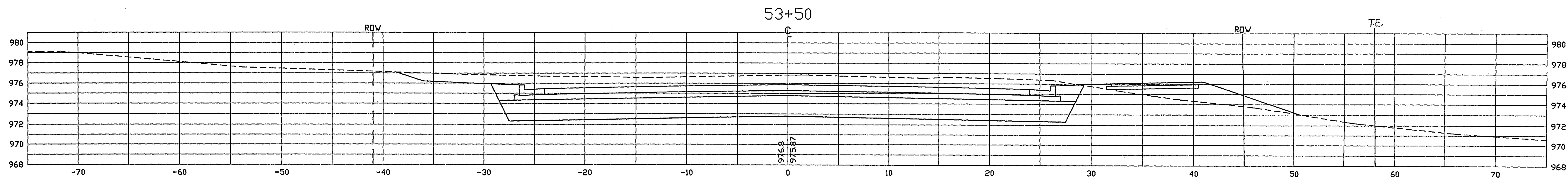


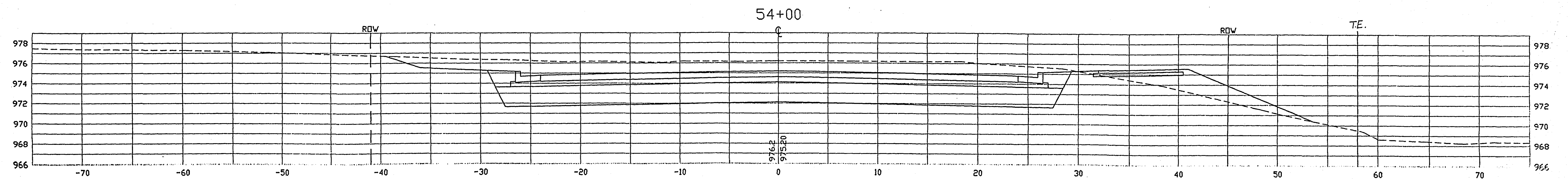
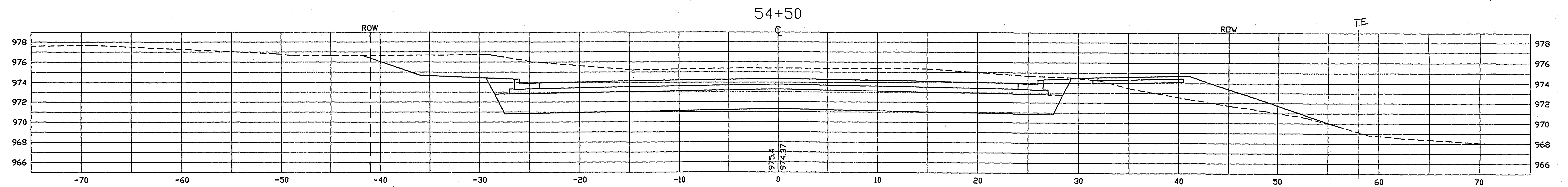
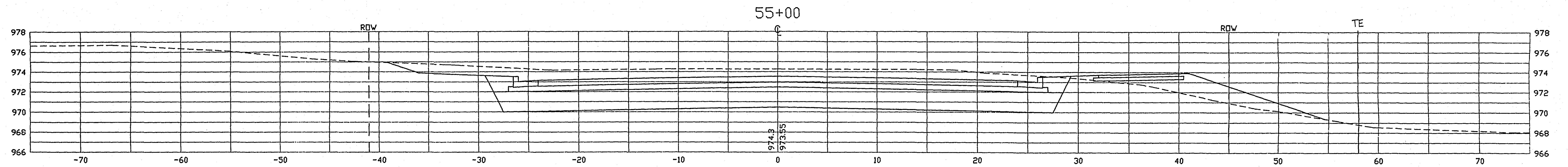
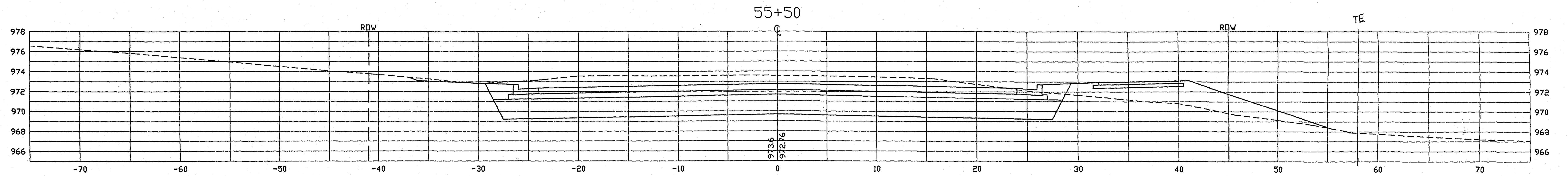


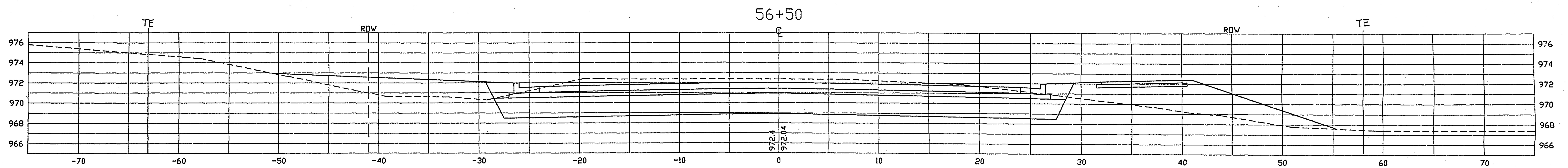
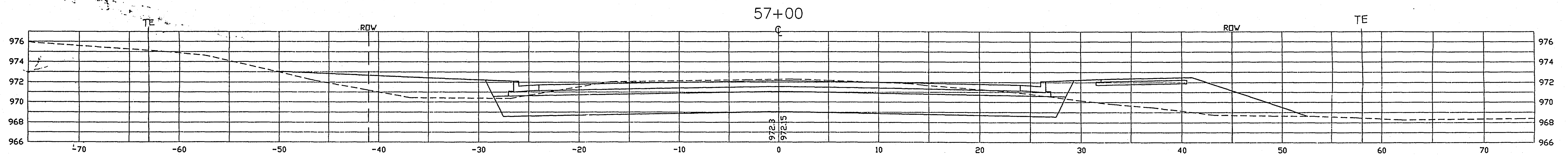
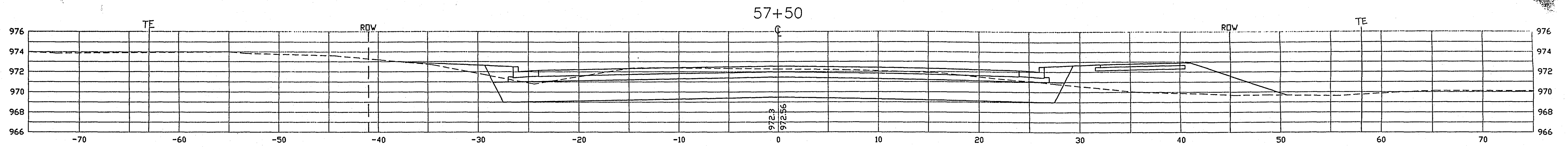


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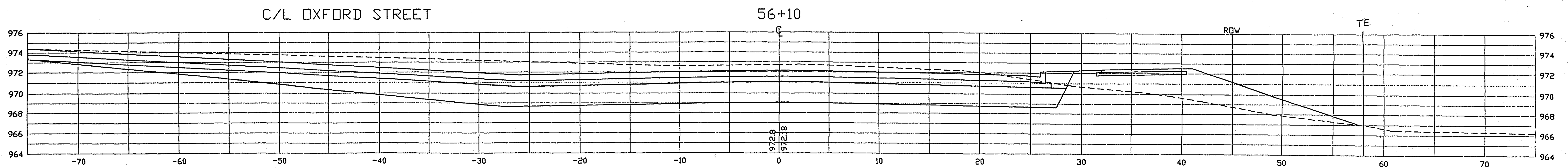




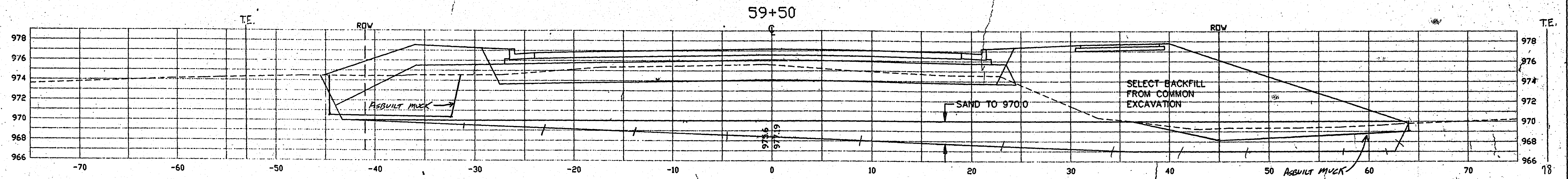




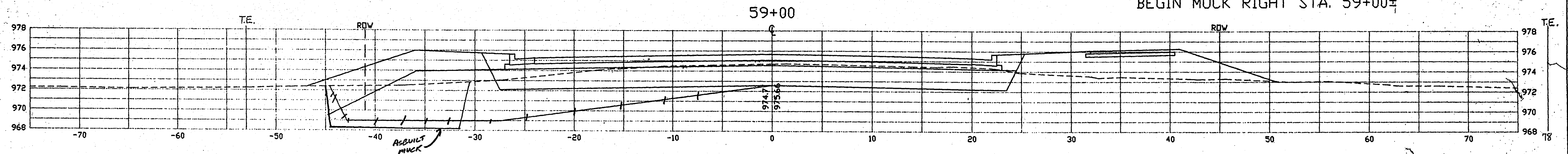
C/L OXFORD STREET



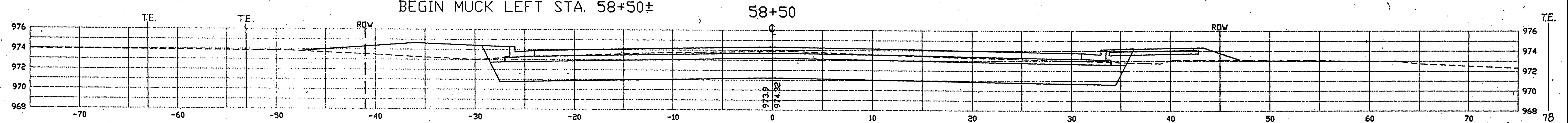
END MUCK LEFT STA. 59+75±



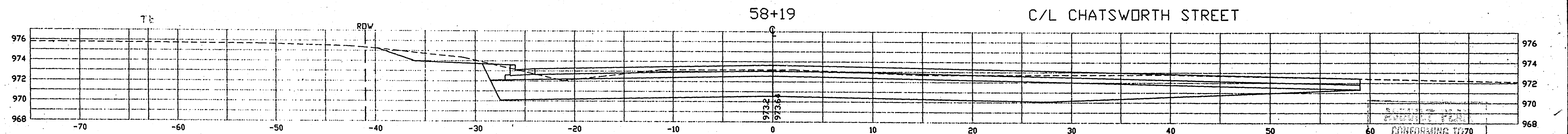
BEGIN MUCK RIGHT STA. 59+00±



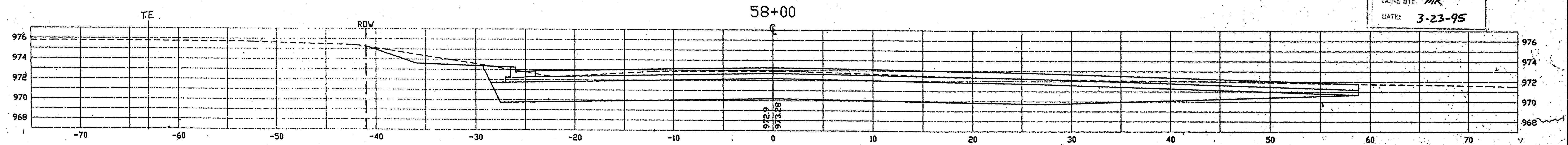
BEGIN MUCK LEFT STA. 58+50±



C/L CHATSWORTH STREET

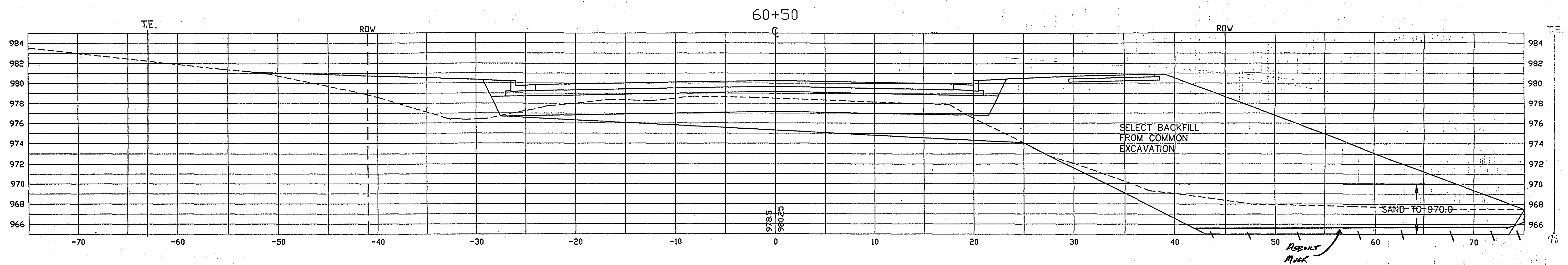


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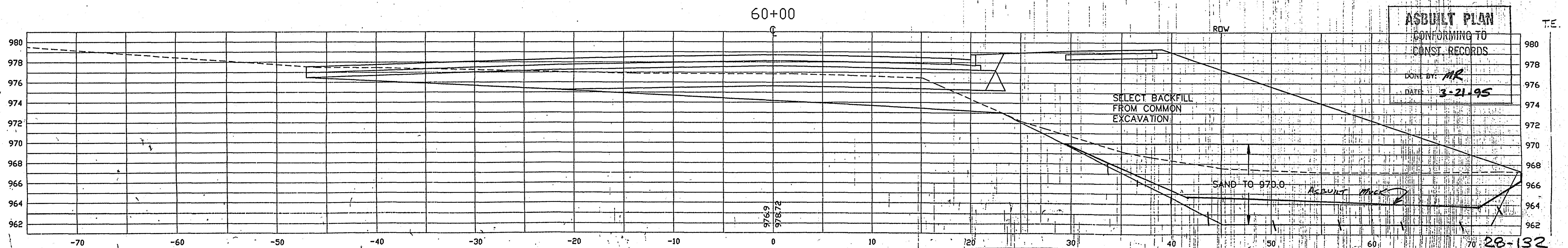
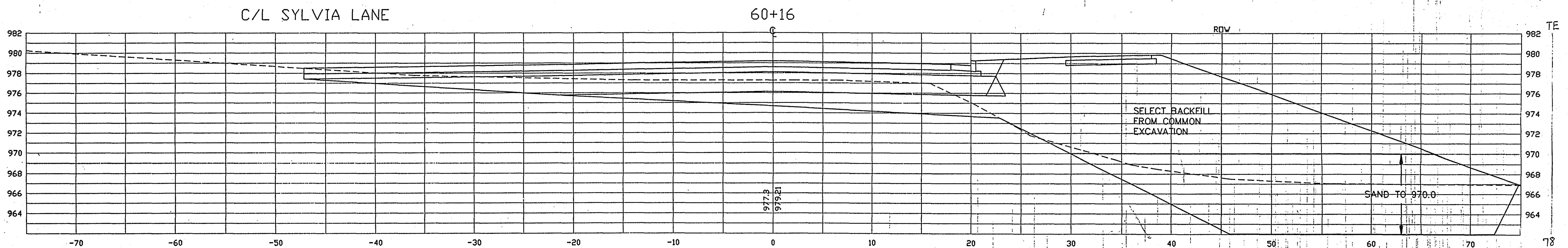


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END MUCK RIGHT STA. 61+00±



C/L SYLVIA LANE



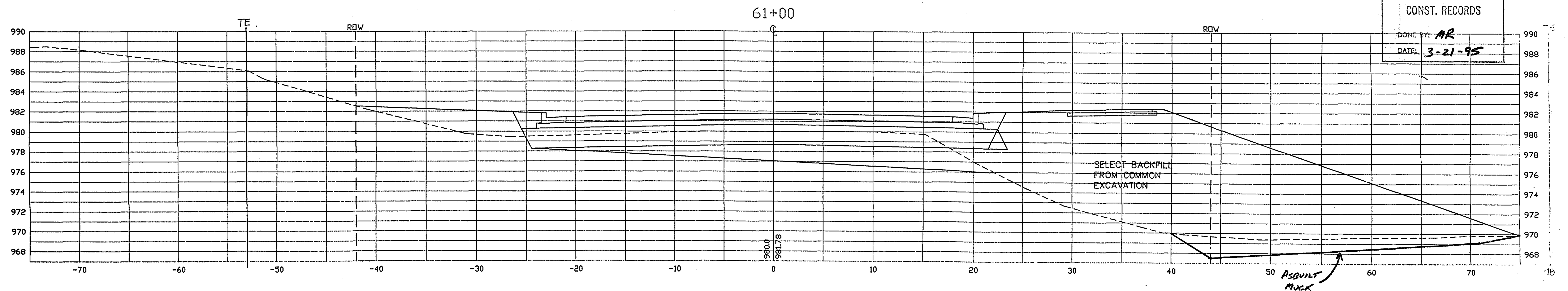
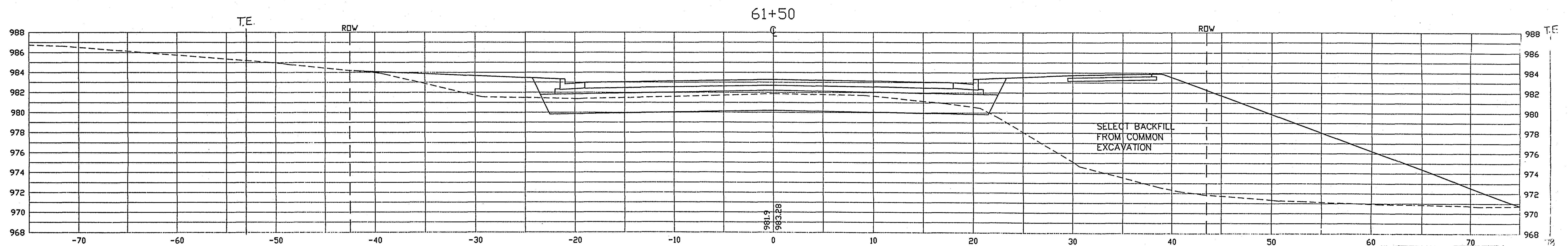
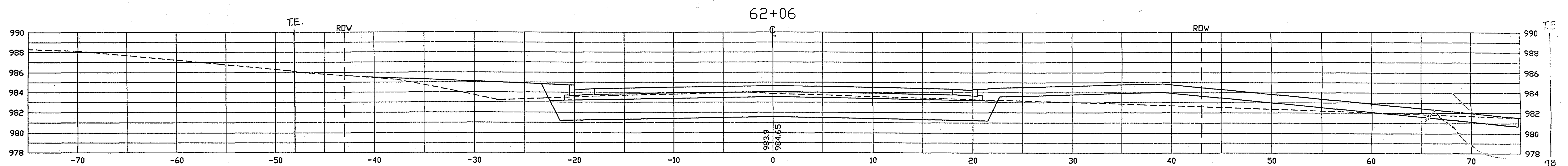
ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: MR
DATE: 3-21-95

SIA.P. 62-612-10

SHEET NO. 32 OF 50 SHEETS

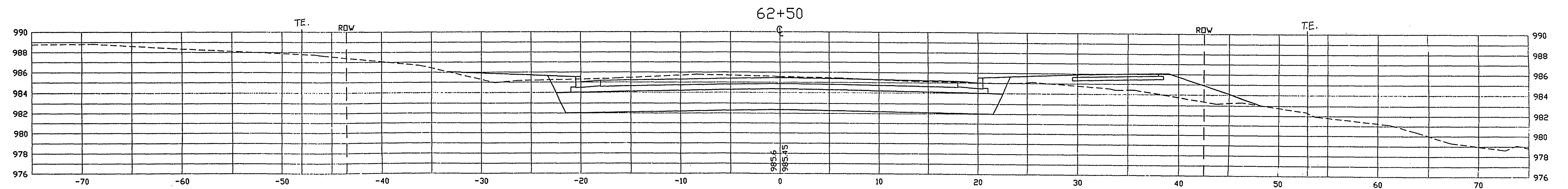
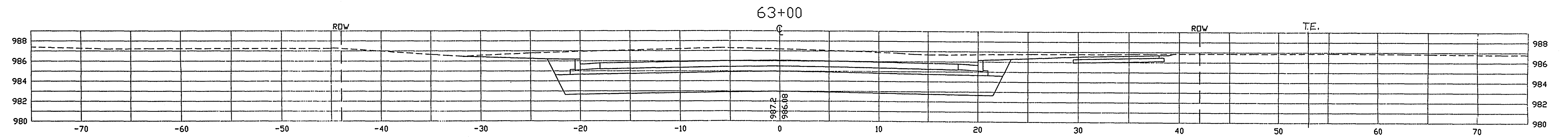
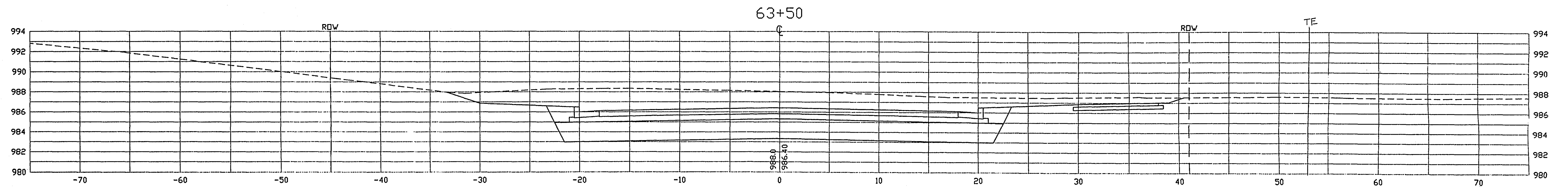
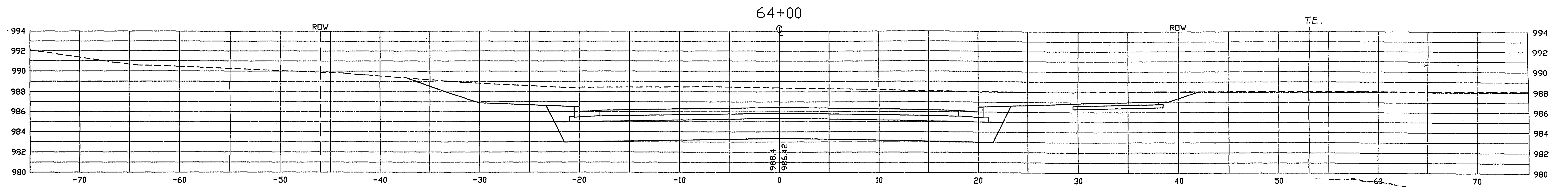
28-132

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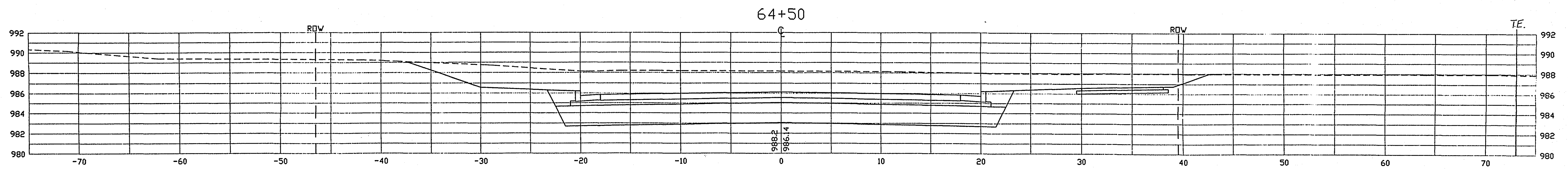
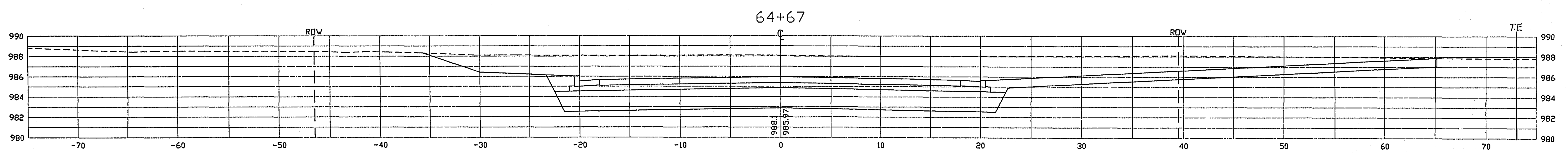
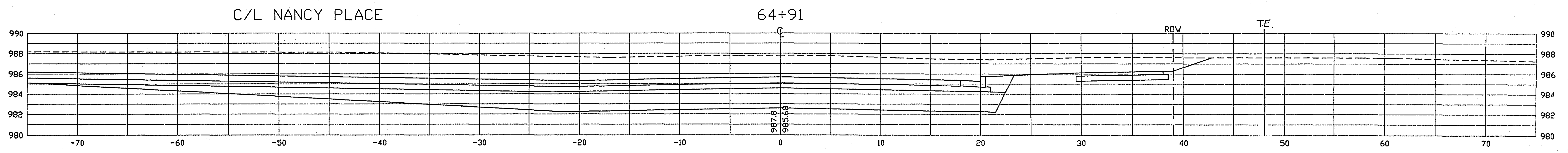
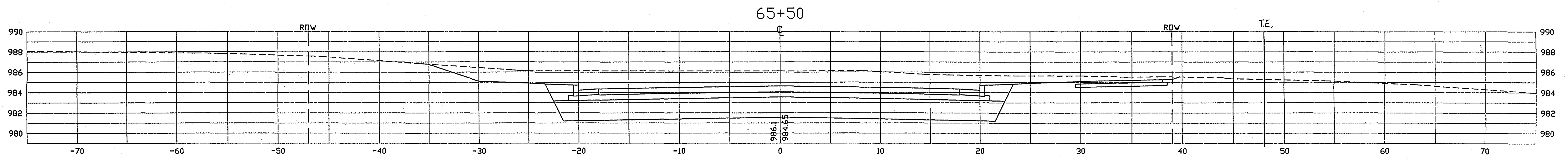


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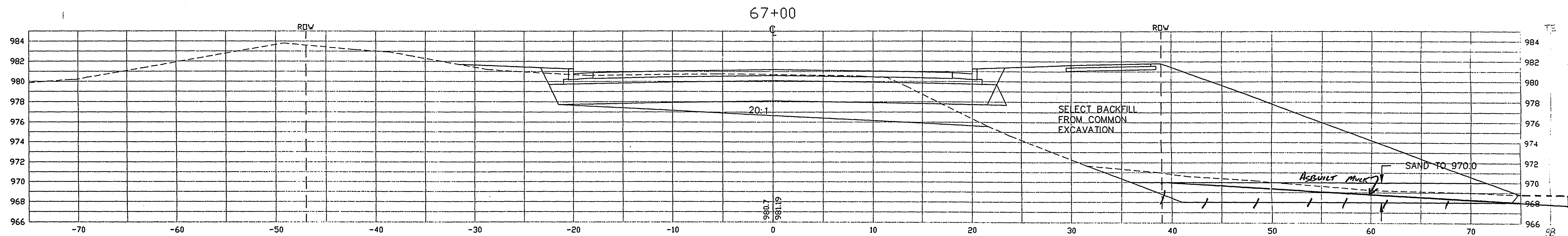
DONE BY: MR
DATE: 3-21-95



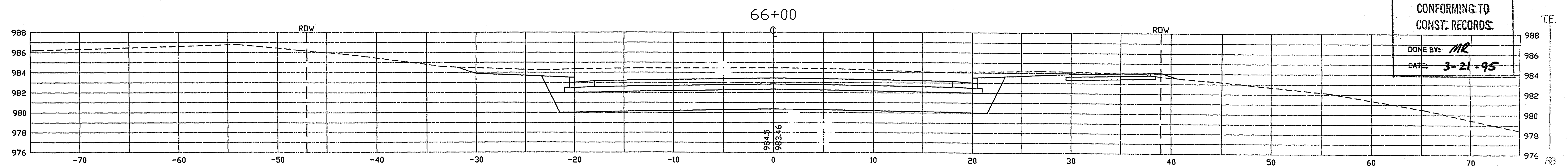
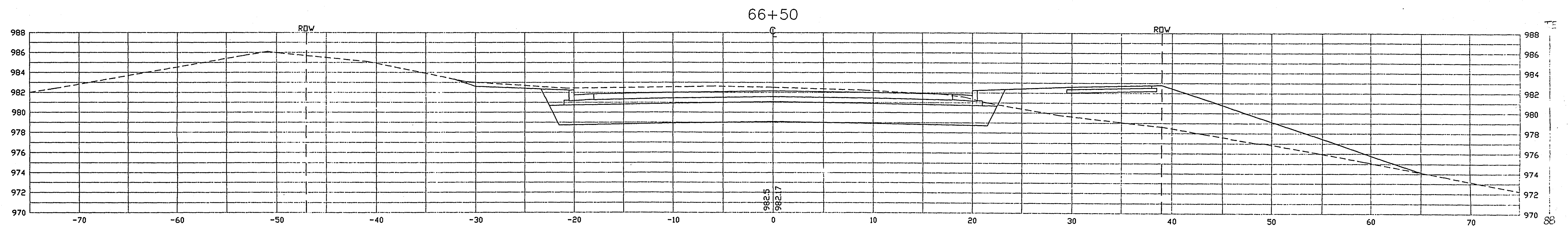
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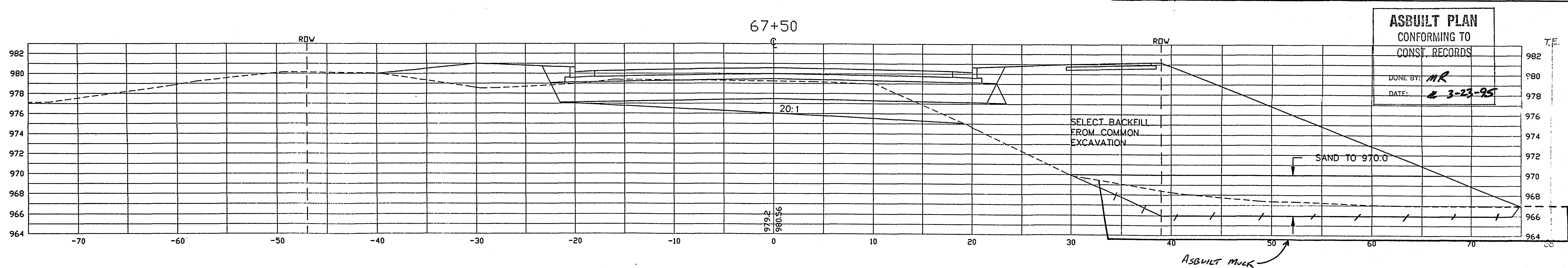
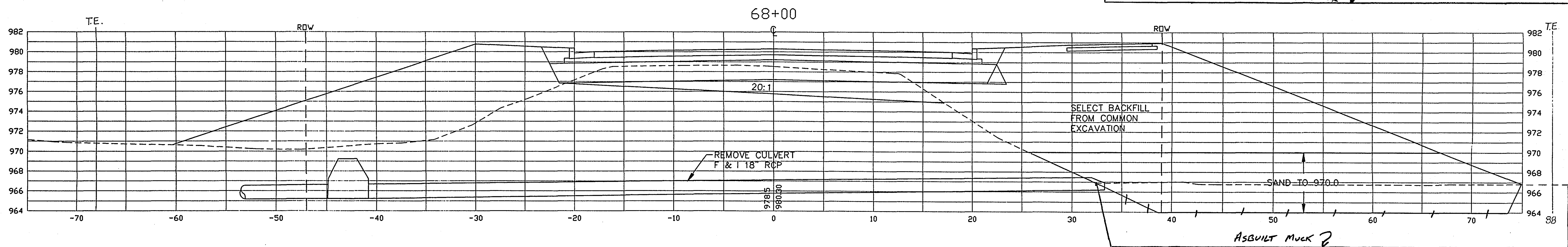
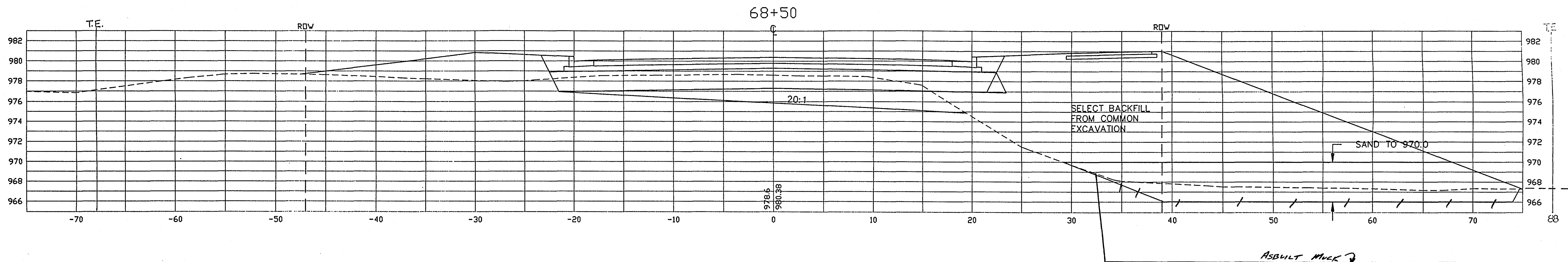
BEGIN MUCK RIGHT STA. 66+75±



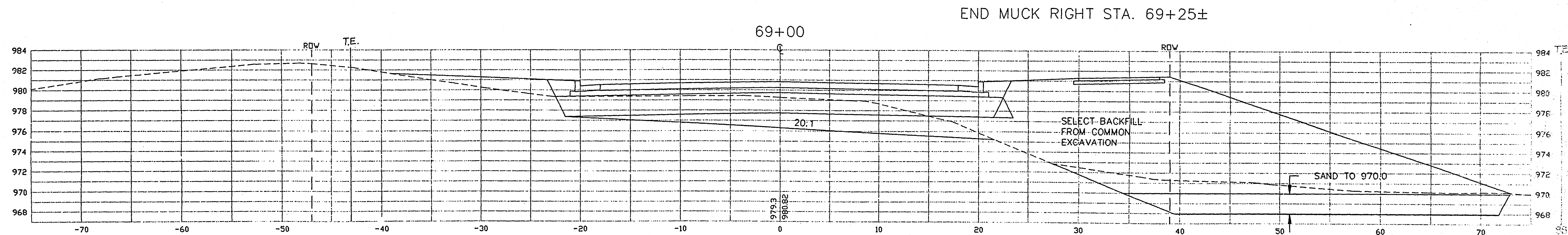
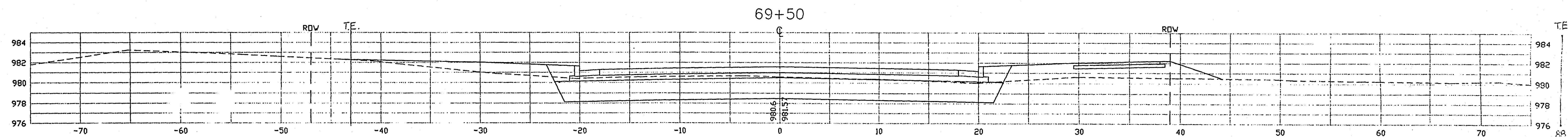
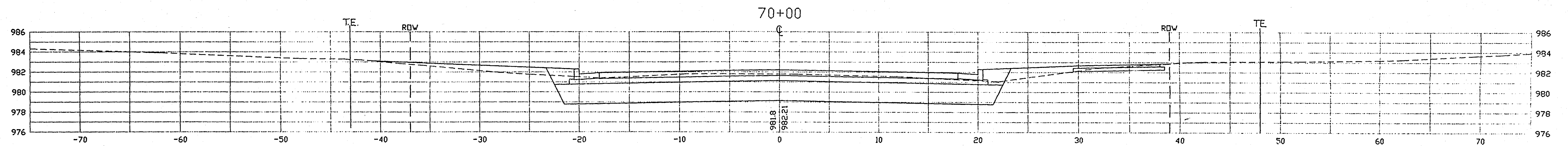
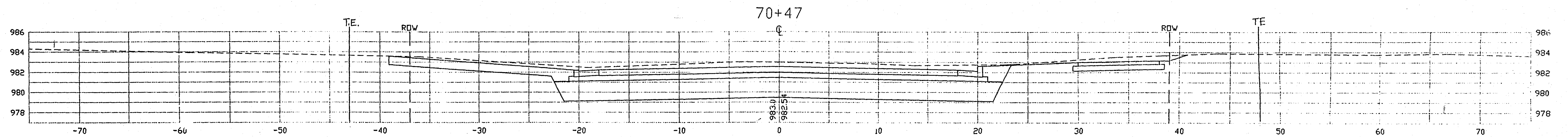
ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

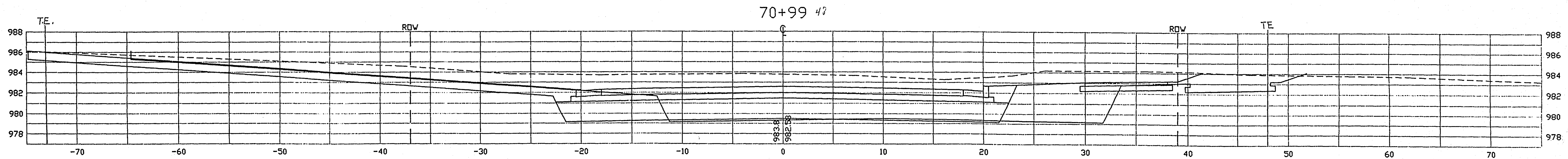
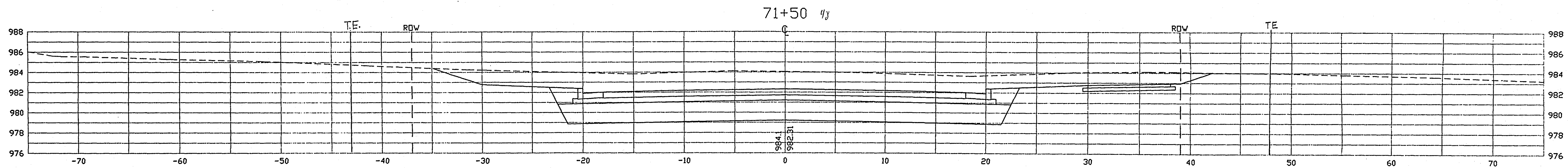
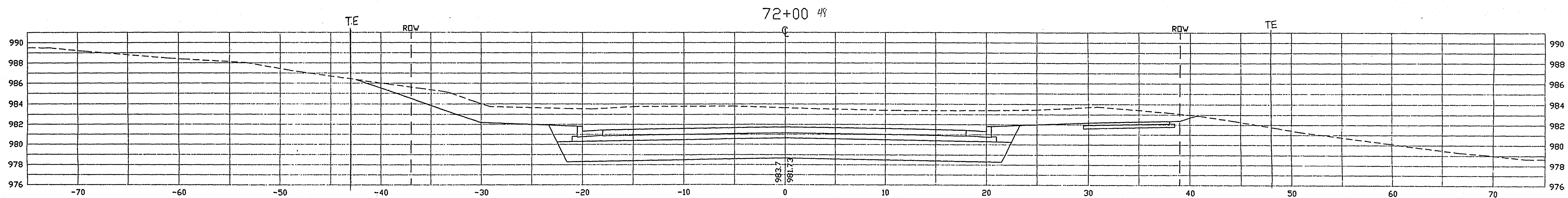
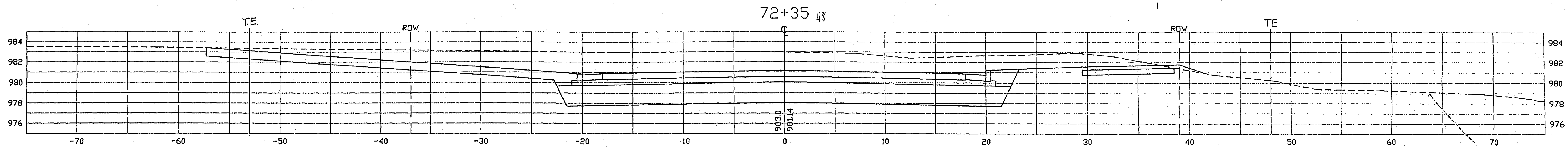
DONE BY: MR

DATE: 3-21-95

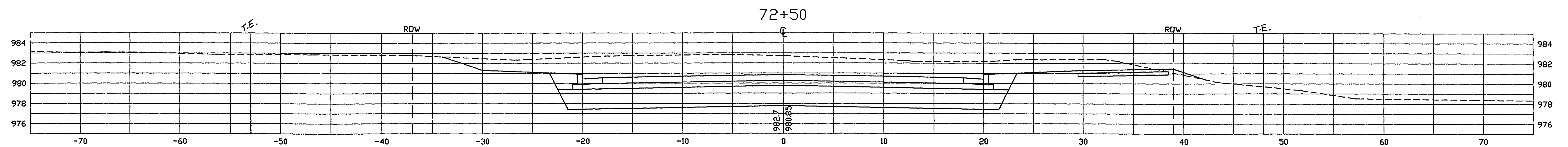
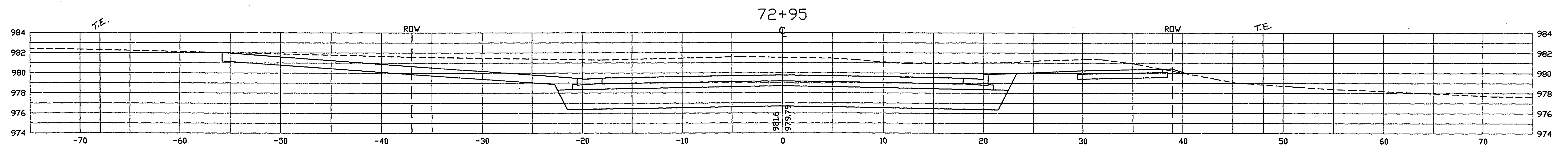
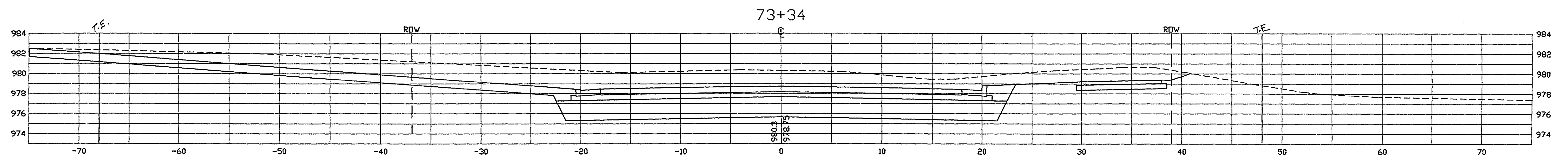
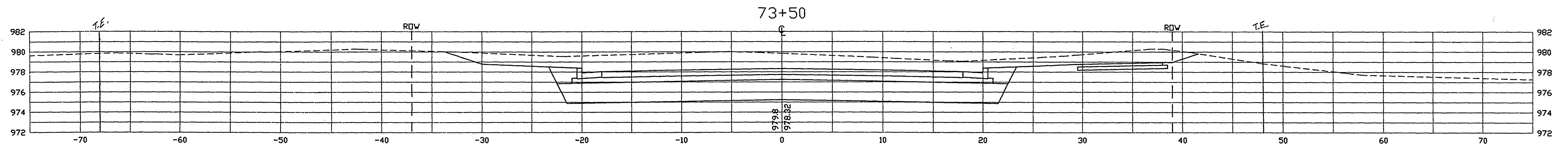
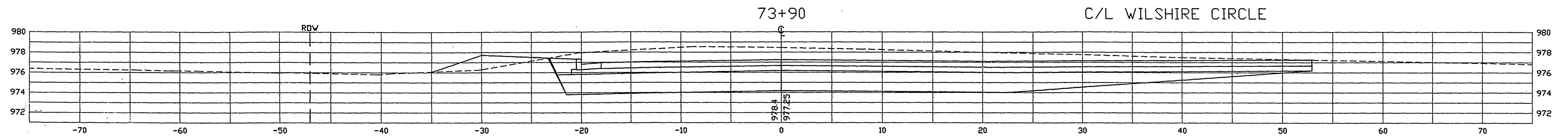


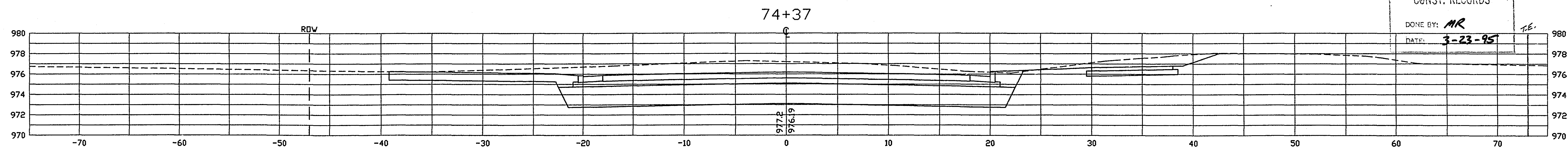
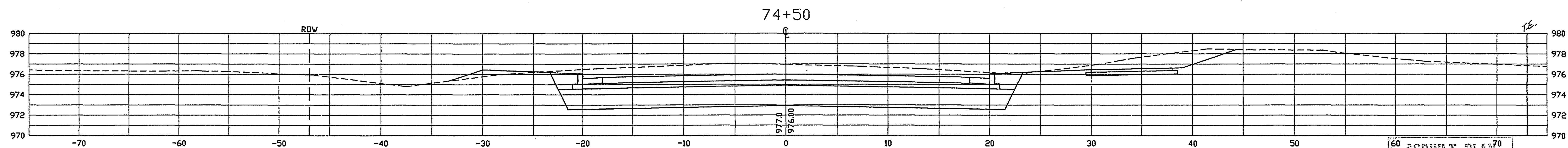
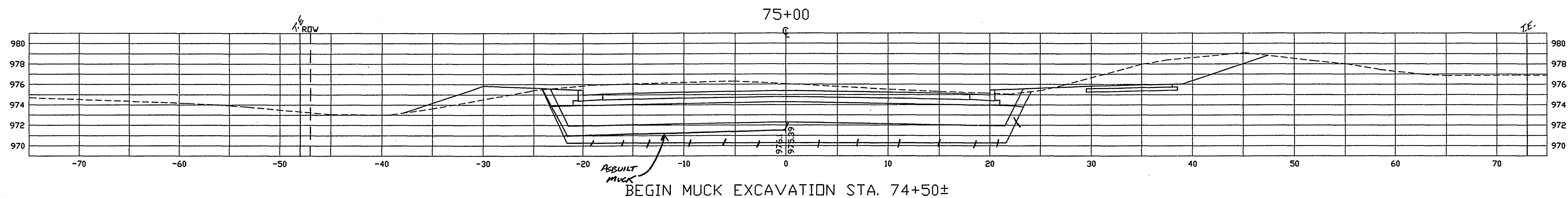
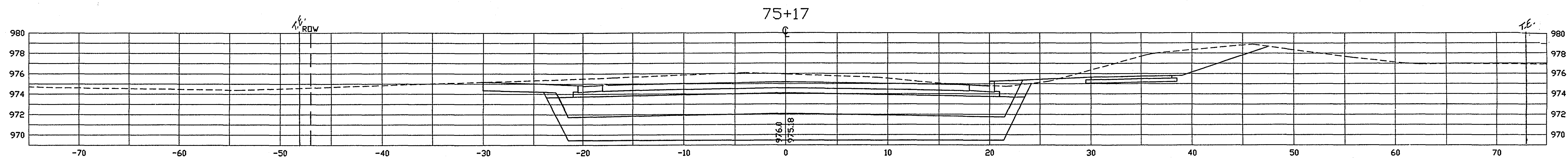
ASBUILT PLAN
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 DONE BY: *MR*
 DATE: *3-23-95*





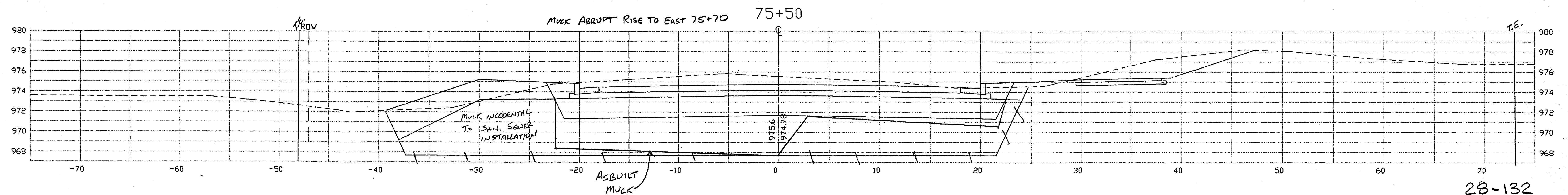
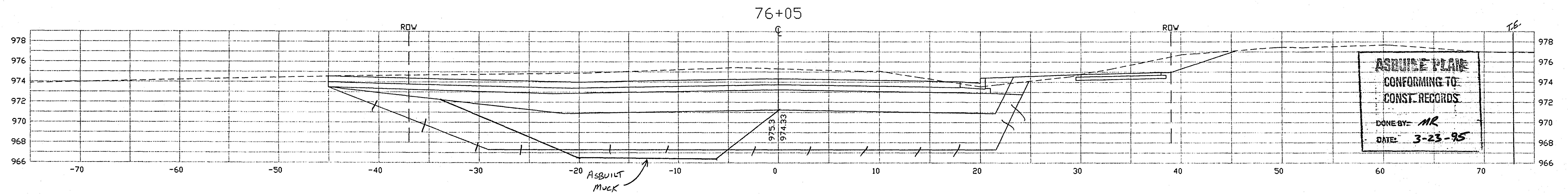
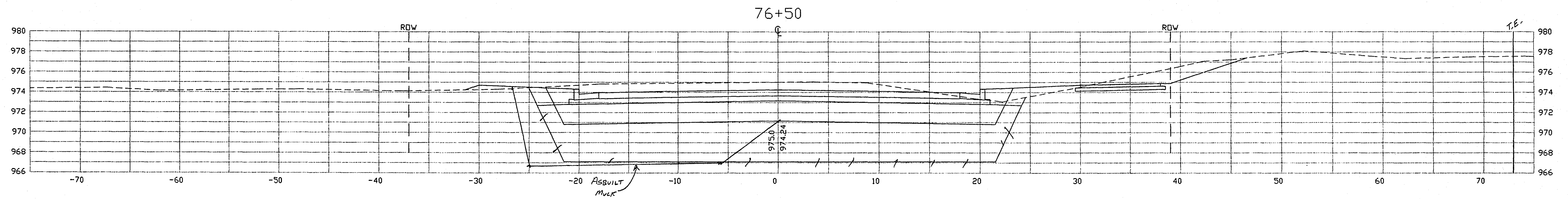
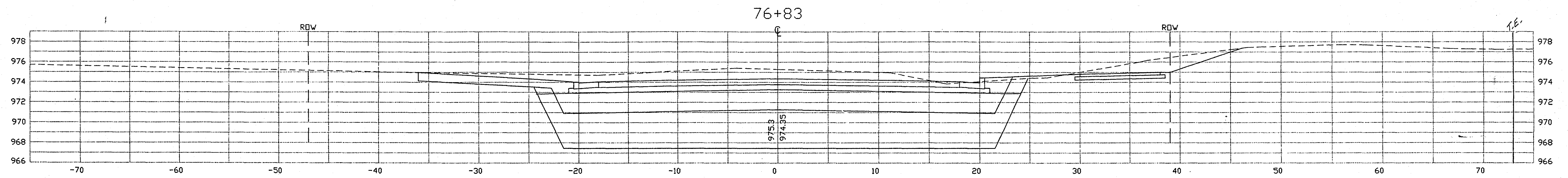
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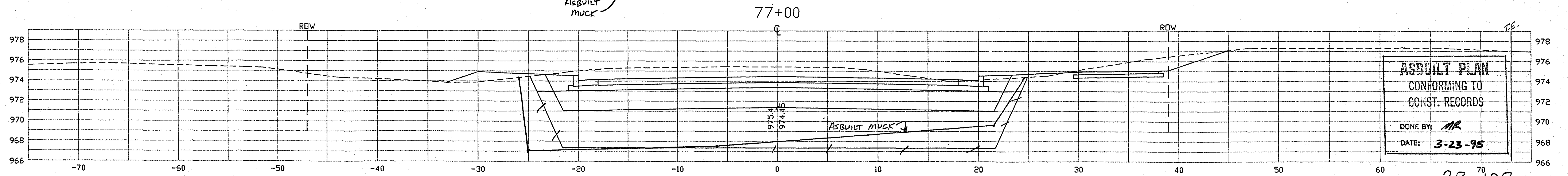
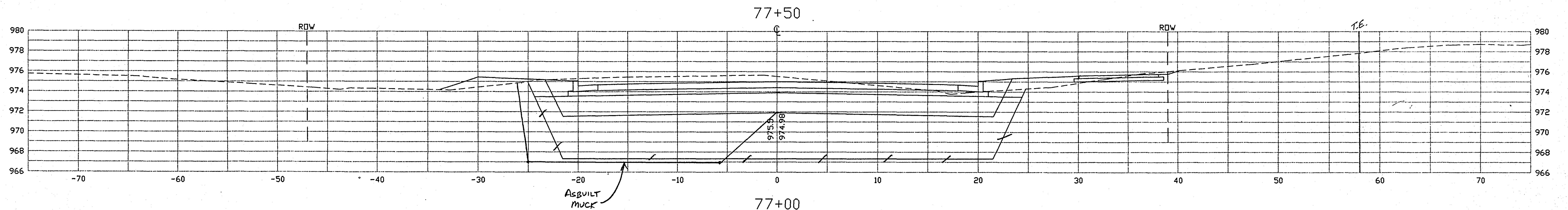
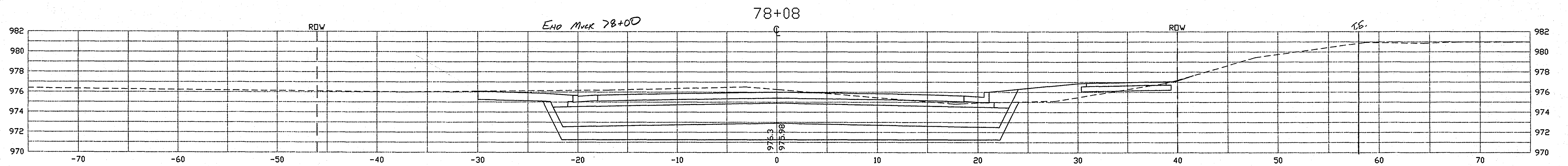
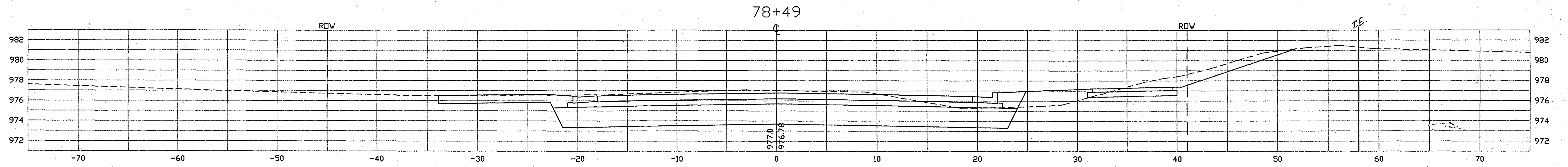
ASBUILT PLAN
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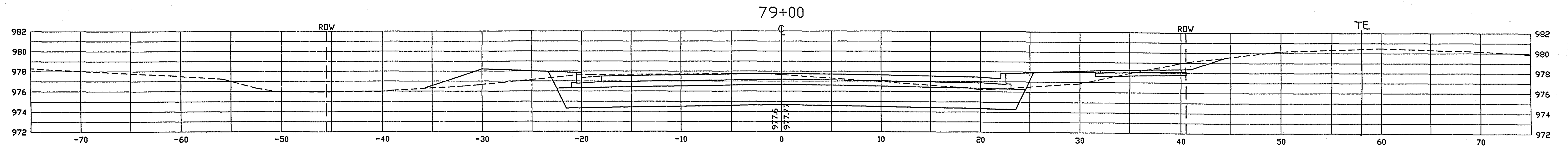
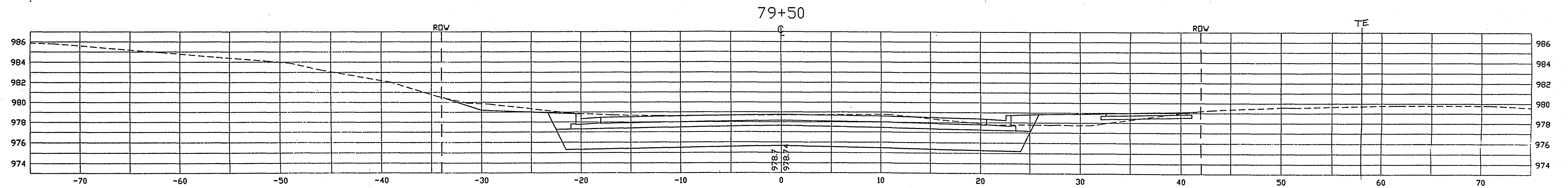
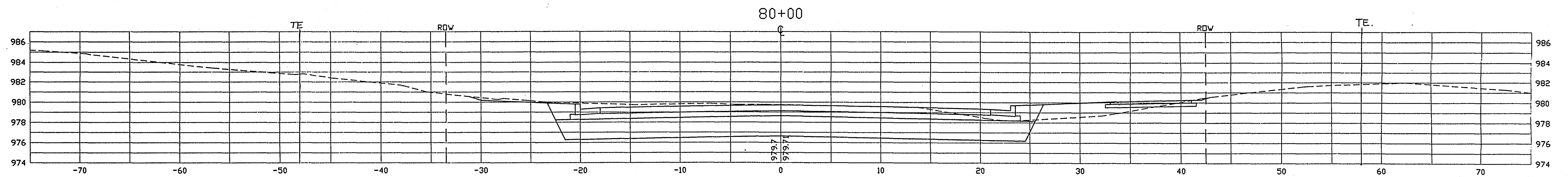
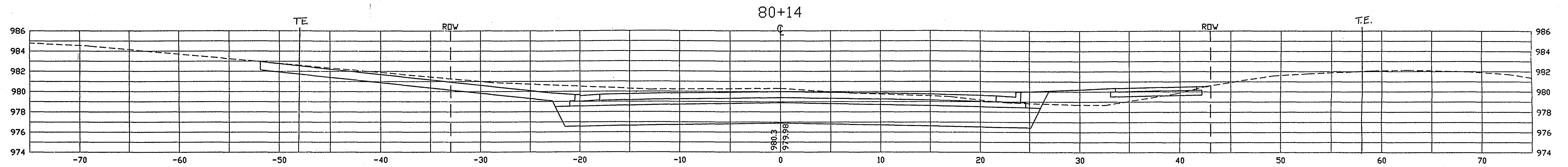
ASBUILT PLAN
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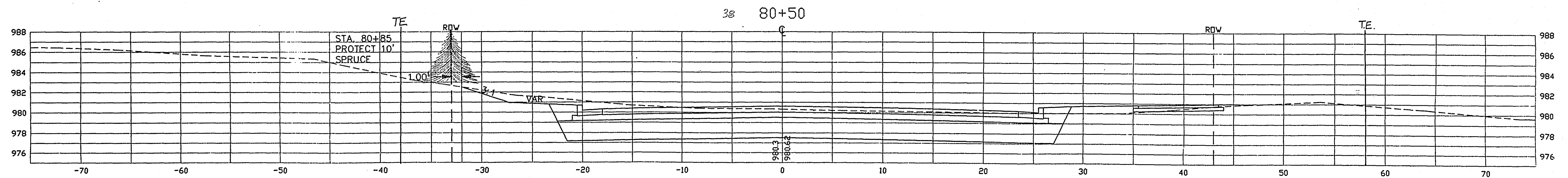
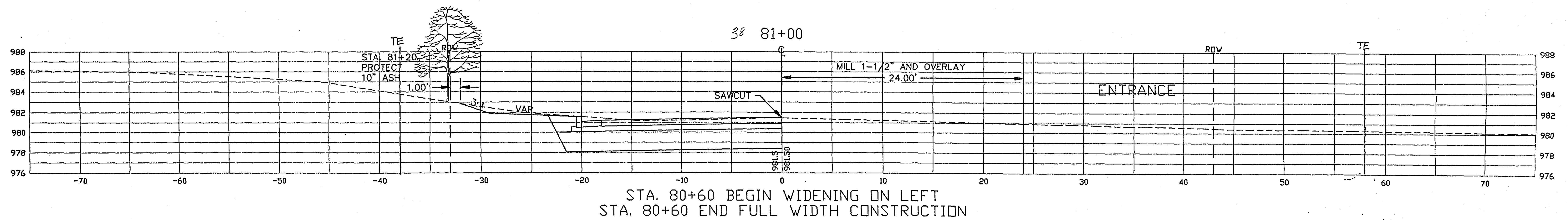
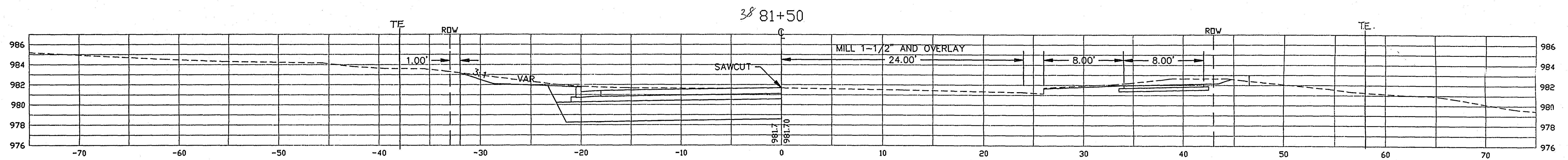
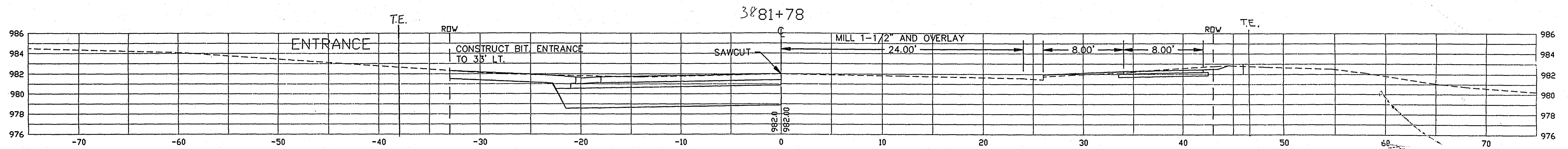
END MUCK STA. 78+50±



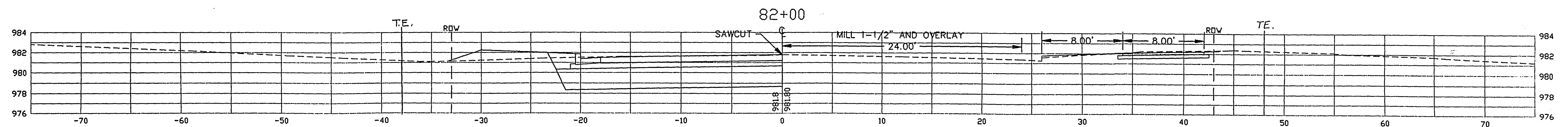
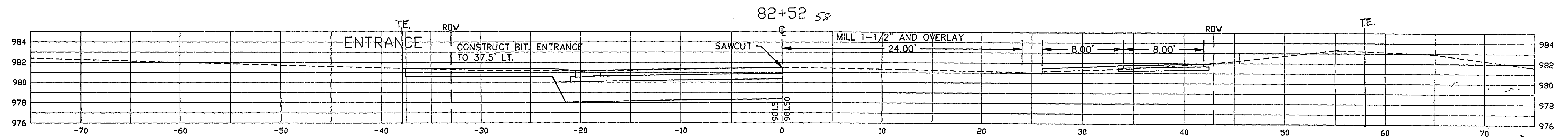
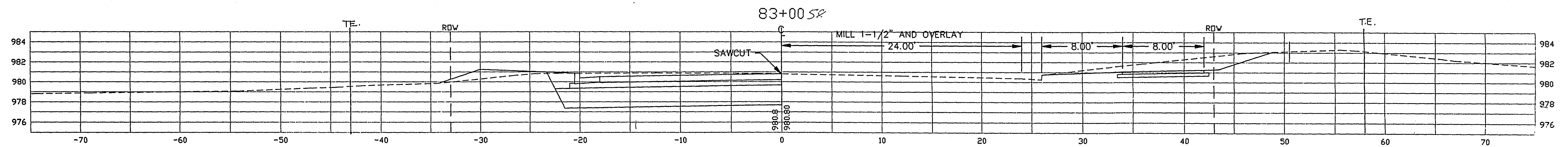
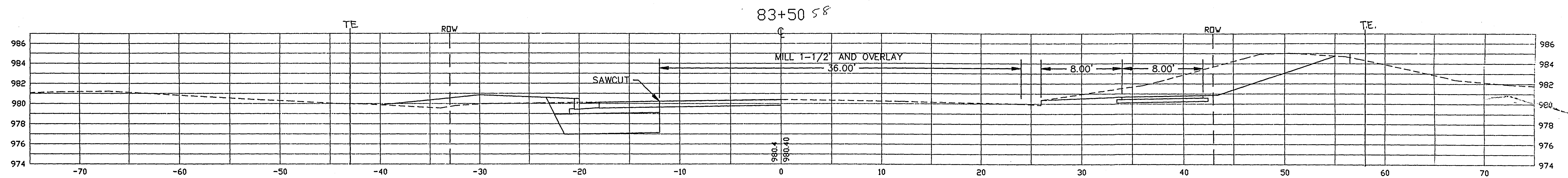
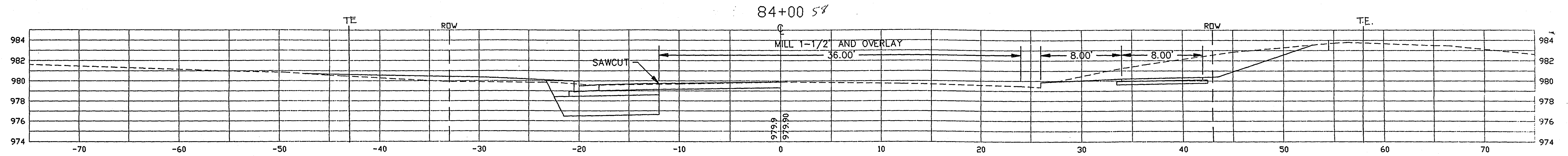
ASBUILT PLAN
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DATE: 3-23-95

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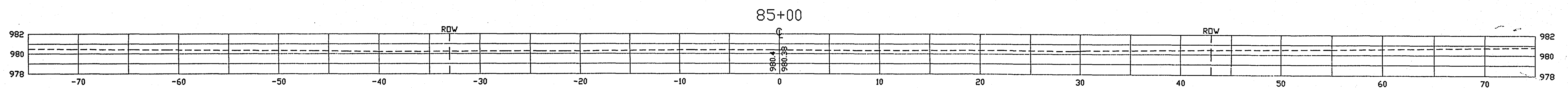


STA. 84+20 END WIDENING ON LEFT

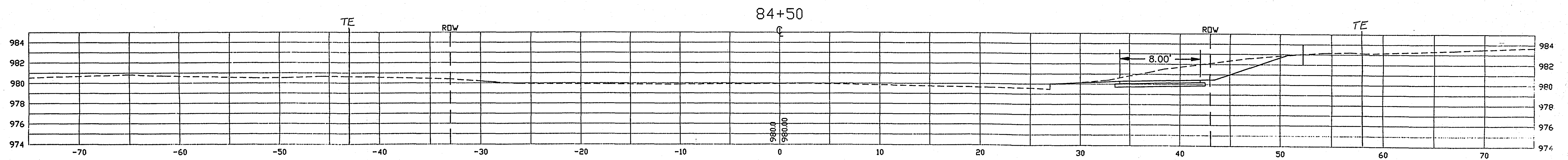


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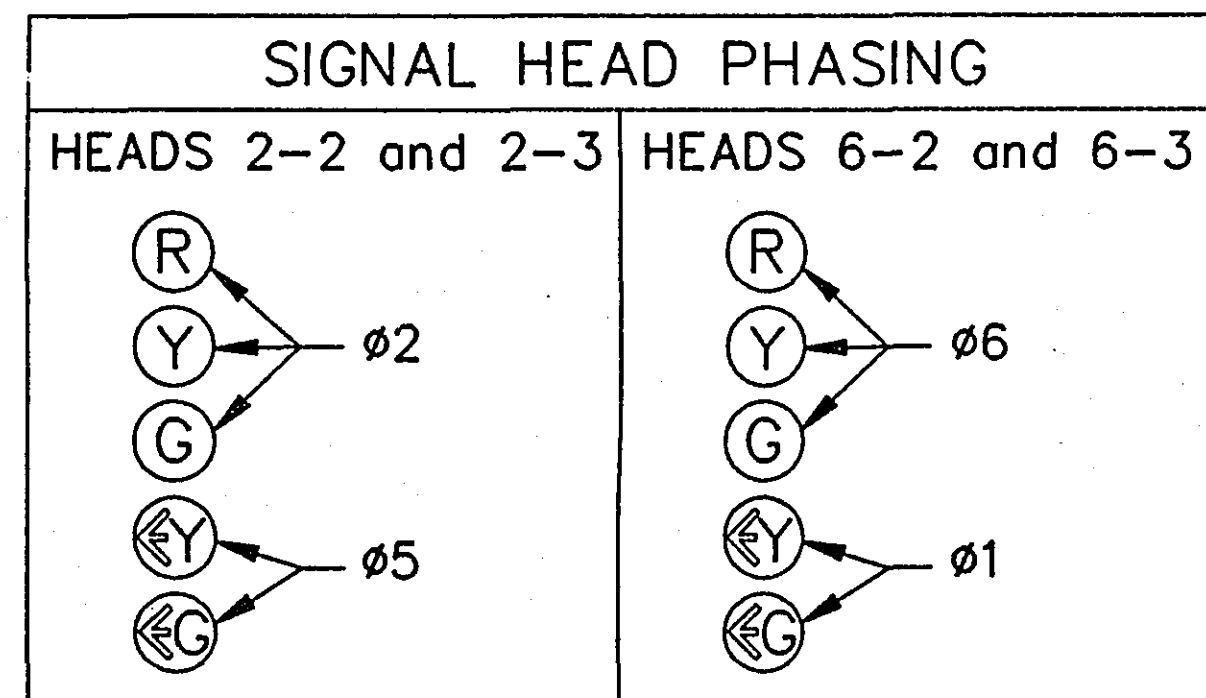
VICTORIA STREET



STA. 84+75 END CONSTRUCTION



SIGNAL INDICATION CHART						
FACE	PHASE	R	Y	G	Y	G
2-1	2	12"	12"	12"		
2-2	2 and 5	12"	12"	12"	12"	12"
2-3	2 and 5	12"	12"	12"	12"	12"
2-4	2	12"	12"	12"		
4-1	4	12"	12"	12"		
4-2	4	12"	12"	12"		
4-3	4	12"	12"	12"		
6-1	6	12"	12"	12"		
6-2	1 and 6	12"	12"	12"	12"	12"
6-3	1 and 6	12"	12"	12"	12"	12"
6-4	6	12"	12"	12"		
8-1	8	12"	12"	12"		
8-2	8	12"	12"	12"		
8-3	8	12"	12"	12"		



SIGNAL SYSTEM OPERATION

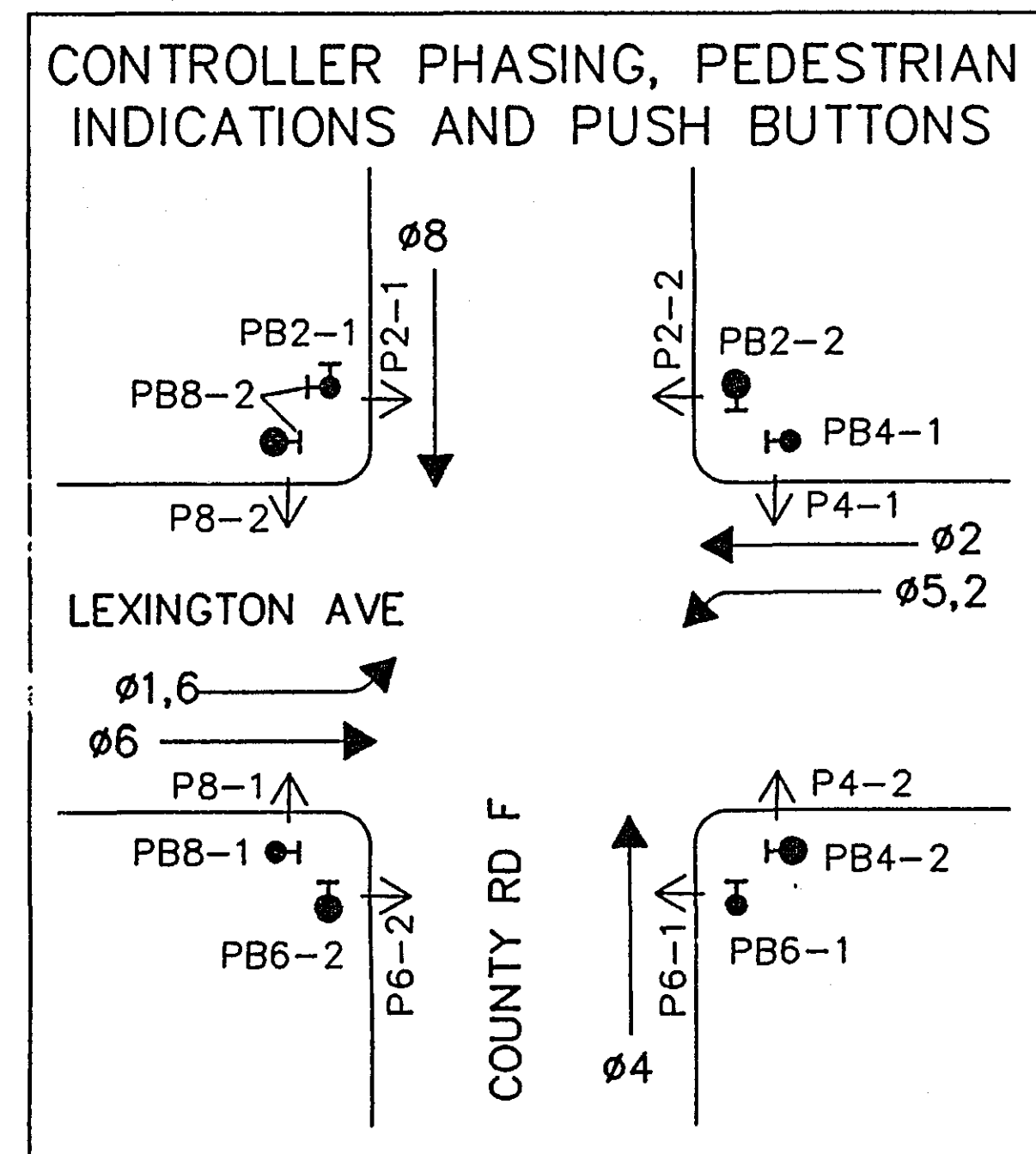
THE SIGNAL SYSTEM FLASH MODE IS ALL RED.

PHASES 1, AND 5 ARE PROTECTED/PERMISSIVE LEFT TURNS.

PHASES 1,4,5 AND 8 ARE NON-LOCK DETECTION

PHASES 2 AND 6 ARE LOCK DETECTION.

PHASES 2 AND 6 ARE ON VEHICLE RECALL.



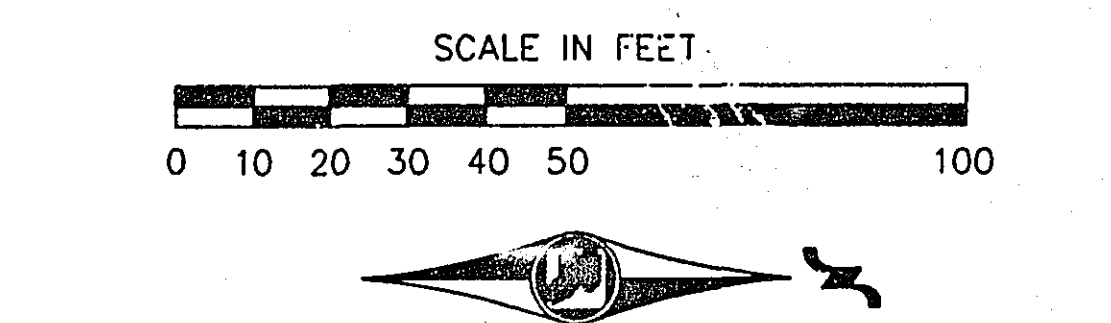
REVISED

VEHICLE DETECTION			
NO.	SIZE	FUNCTION	LOCATION
D1-1	6'X40'	C&E (TD)	0'
D1-2	6'X25'	E	80'
D2-1	6'X6'	C&E	290'
D2-2	6'X6'	C&E	290'
D4-1	2-6'X6'	C&E	165'
D4-2	2-6'X6'	C&E	85'
D4-3	2-6'X15'	C&E (TD)	0'
D5-1	6'X40'	C&E (TD)	0'
D5-2	6'X25'	E	80'
D6-1	6'X6'	C&E	290'
D6-2	6'X6'	C&E	290'
D8-1	2-6'X6'	C&E	165'
D8-2	6'X15'	C&E	90'
D8-3	2-6'X15'	C&E (TD)	0'
D1	6'X6'	COUNT	SEE PLAN
D2	6'X6'	COUNT	SEE PLAN

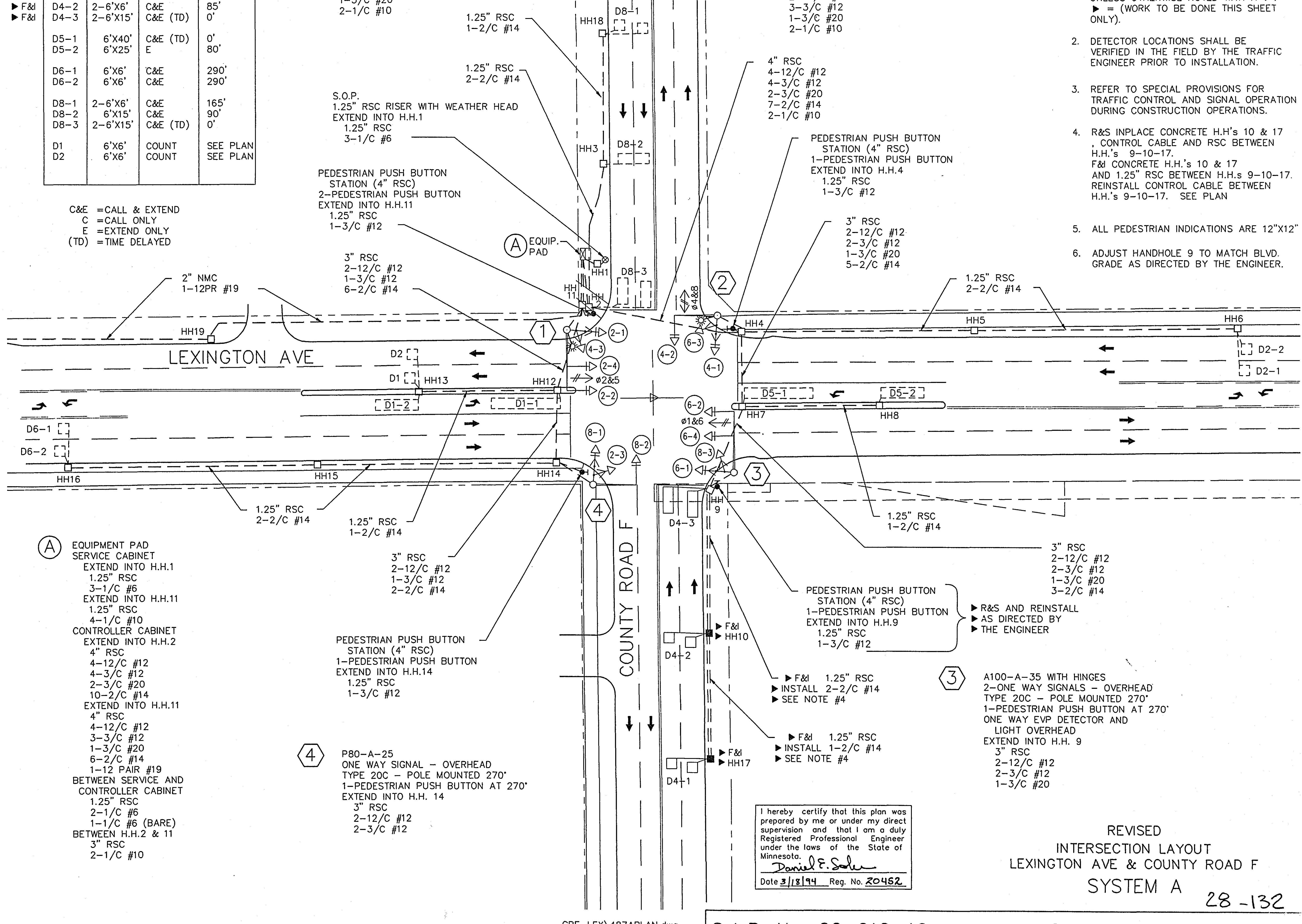
C&E = CALL & EXTEND
C = CALL ONLY
E = EXTEND ONLY
(TD) = TIME DELAYED

① A100-A-35-T40-10 WITH HINGES
LUMINAIRE-200 WATT HPS AT 350'
2-ONE WAY SIGNALS - OVERHEAD
TYPE 20C - POLE MOUNTED 270'
1-PEDESTRIAN PUSH BUTTON AT 270'
ONE WAY EVP DETECTOR AND
LIGHT OVERHEAD
EXTEND INTO H.H. 11
3" RSC
2-12/C #12
2-3/C #12
1-3/C #20
2-1/C #10

② P80-A-25-T40-10
LUMINAIRE-200 WATT HPS AT 350'
ONE WAY SIGNAL - OVERHEAD
TYPE 20C - POLE MOUNTED 270'
1-PEDESTRIAN PUSH BUTTON AT 270'
TWO WAY EVP DETECTOR AND
LIGHT OVERHEAD
EXTEND INTO H.H. 4
3" RSC
2-12/C #12
3-3/C #12
1-3/C #20
2-1/C #10



- NOTES:**
- ALL ITEMS OF THIS SIGNAL SYSTEM ARE INPLACE AND SHALL BE USED INPLACE UNLESS OTHERWISE NOTED WITH A ►. ► = (WORK TO BE DONE THIS SHEET ONLY).
 - DETECTOR LOCATIONS SHALL BE VERIFIED IN THE FIELD BY THE TRAFFIC ENGINEER PRIOR TO INSTALLATION.
 - REFER TO SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND SIGNAL OPERATION DURING CONSTRUCTION OPERATIONS.
 - R&S INPLACE CONCRETE H.H.'s 10 & 17, CONTROL CABLE AND RSC BETWEEN H.H.'s 9-10-17. F&I CONCRETE H.H.'s 10 & 17 AND 1.25" RSC BETWEEN H.H.'s 9-10-17. REINSTALL CONTROL CABLE BETWEEN H.H.'s 9-10-17. SEE PLAN
 - ALL PEDESTRIAN INDICATIONS ARE 12"X12"
 - ADJUST HANDHOLE 9 TO MATCH BLVD. GRADE AS DIRECTED BY THE ENGINEER.



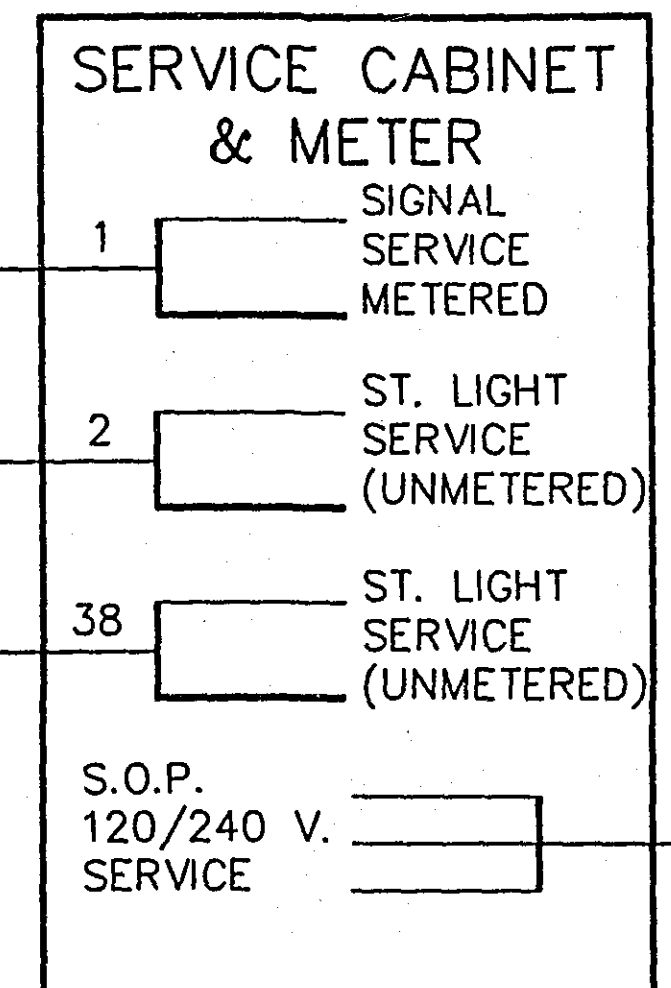
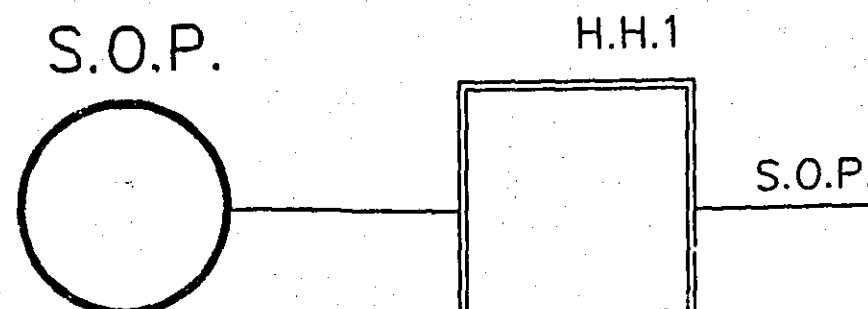
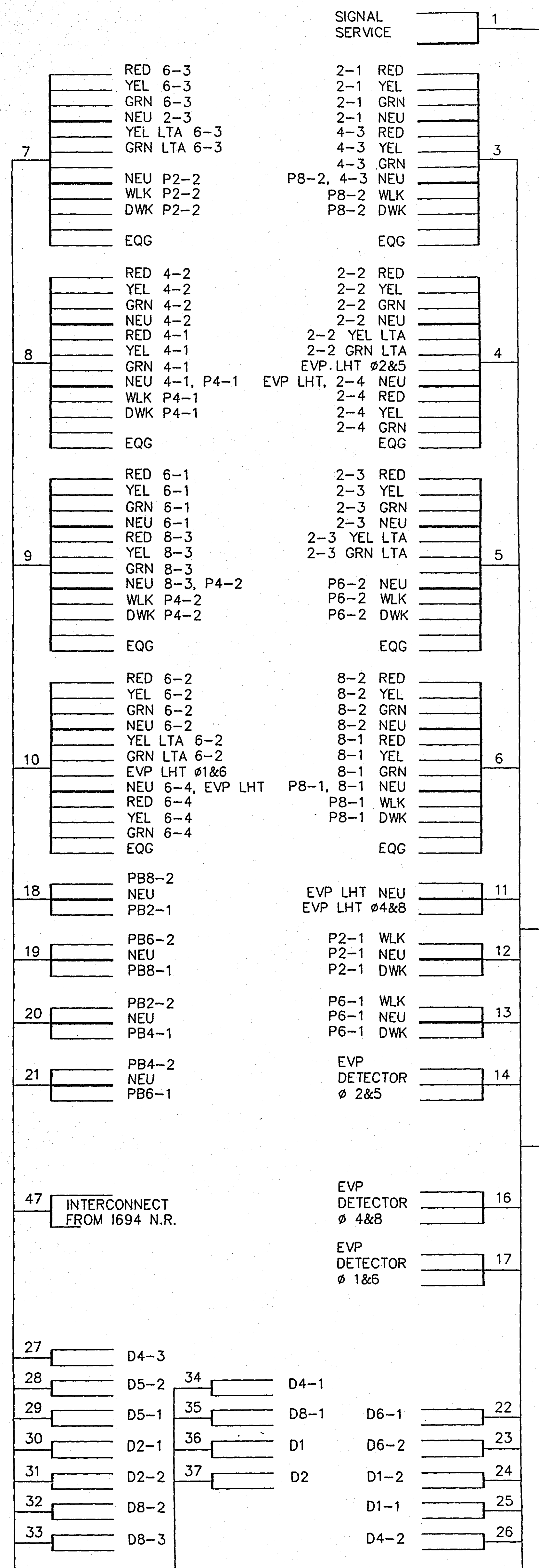
③ EQUIPMENT PAD
SERVICE CABINET
EXTEND INTO H.H.1
1.25" RSC
3-1/C #6
EXTEND INTO H.H.11
1.25" RSC
4-1/C #10
CONTROLLER CABINET
EXTEND INTO H.H.2
4" RSC
4-12/C #12
4-3/C #12
2-3/C #20
10-2/C #14
EXTEND INTO H.H.11
4" RSC
4-12/C #12
3-3/C #12
1-3/C #20
6-2/C #14
1-12 PAIR #19
BETWEEN SERVICE AND
CONTROLLER CABINET
1.25" RSC
2-1/C #6
1-1/C #6 (BARE)
BETWEEN H.H.2 & 11
3" RSC
2-1/C #10

④ P80-A-25
ONE WAY SIGNAL - OVERHEAD
TYPE 20C - POLE MOUNTED 270'
1-PEDESTRIAN PUSH BUTTON AT 270'
EXTEND INTO H.H. 14
3" RSC
2-12/C #12
2-3/C #12

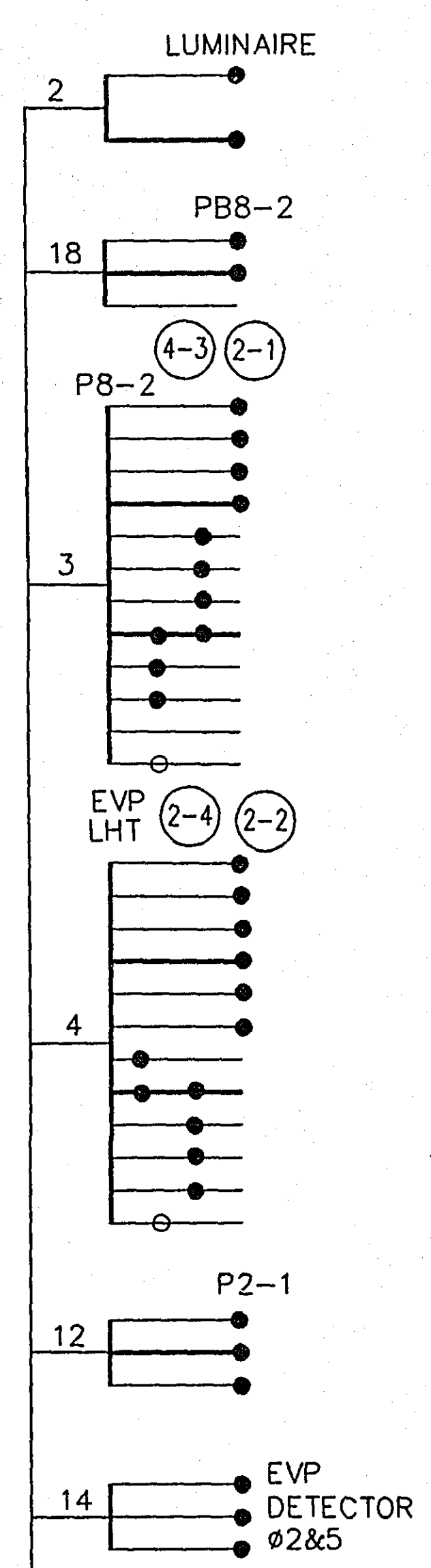
I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.
Daniel F. Sauer
Date 3/18/94 Reg. No. 20452

③ A100-A-35 WITH HINGES
2-ONE WAY SIGNALS - OVERHEAD
TYPE 20C - POLE MOUNTED 270'
1-PEDESTRIAN PUSH BUTTON AT 270'
ONE WAY EVP DETECTOR AND
LIGHT OVERHEAD
EXTEND INTO H.H. 9
3" RSC
2-12/C #12
2-3/C #12
1-3/C #20

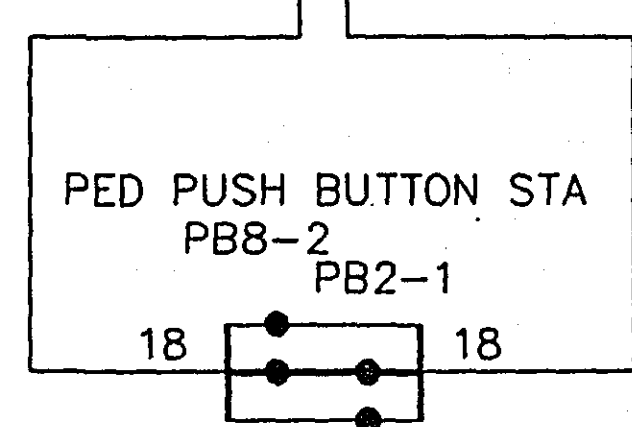
CONTROLLER CABINET



1



H.H.11



7,8,9,10,11,13,16,17,
20,21,26,27,28,29,
30,31,32,33,34,35

TO H.H.2
SEE NEXT SHEET

INTERCONNECT FROM 1694 N. RAMP

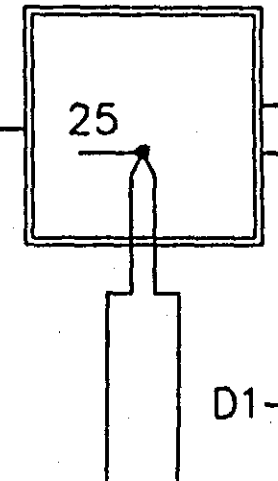
H.H.22

H.H.21

H.H.20

H.H.19

H.H.12

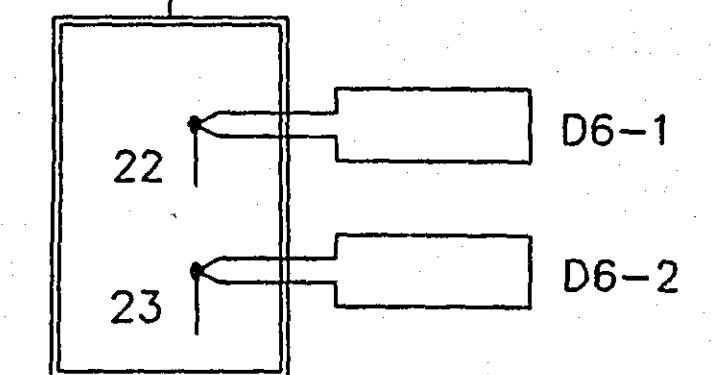
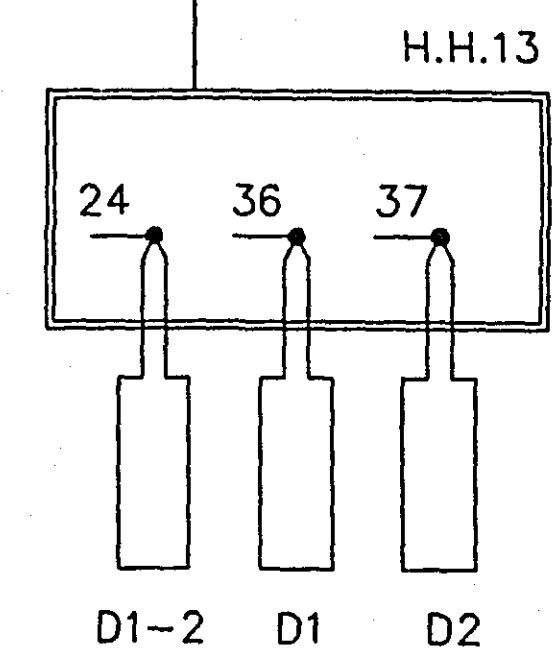
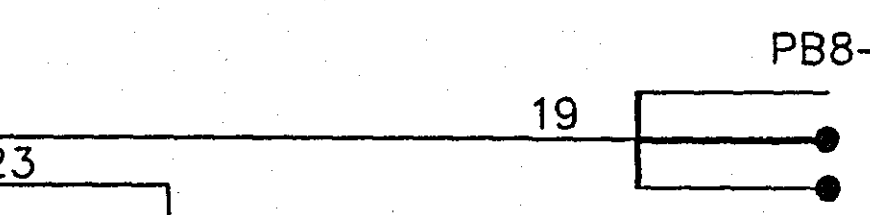


H.H.14

H.H.15

H.H.16

PED PUSH BUTTON STA



CONDUCTOR COLOR CODING

R	BLK	2-1/C#5
O	WH	2-1/C#10
BL		
WH		
R/BLK	R	3/C#12
O/BLK	WH	3/C#20
SL/BLK	BLK	
WH/BLK	R OR O	
BLK	WH OR YEL	
BLK/WH	BL OR BLK	
G/BLK		
G	BLK	2/C#4
	CLEAR	

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

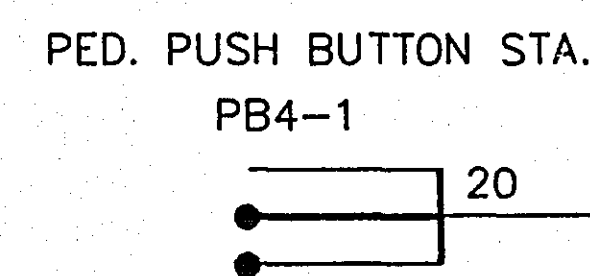
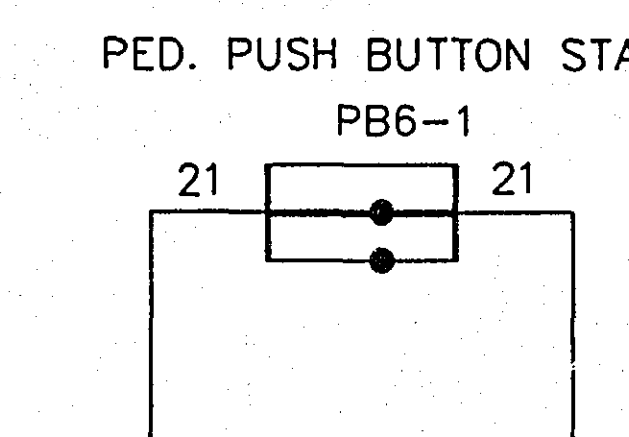
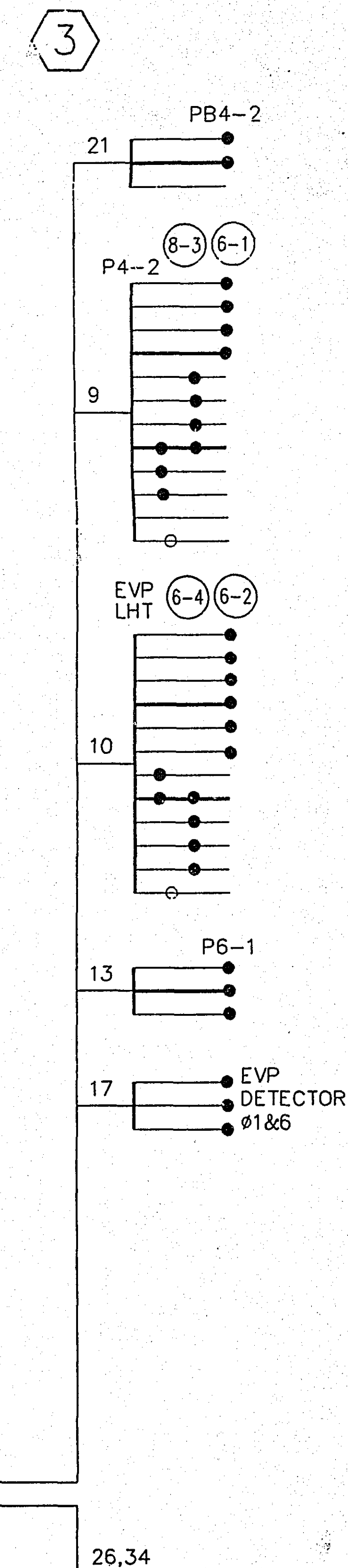
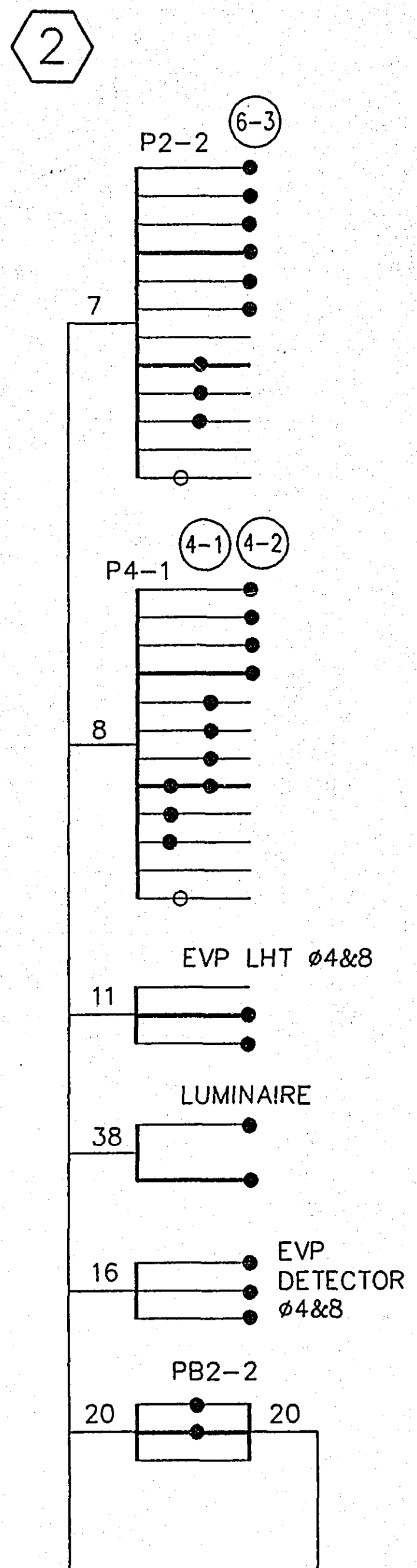
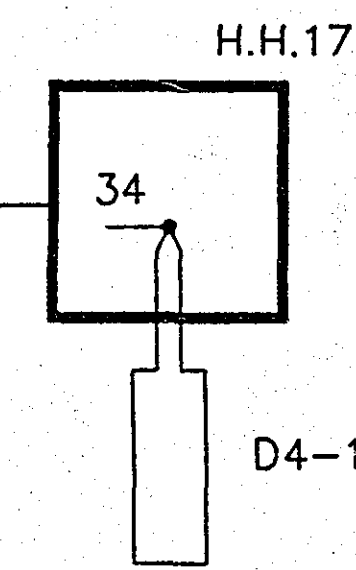
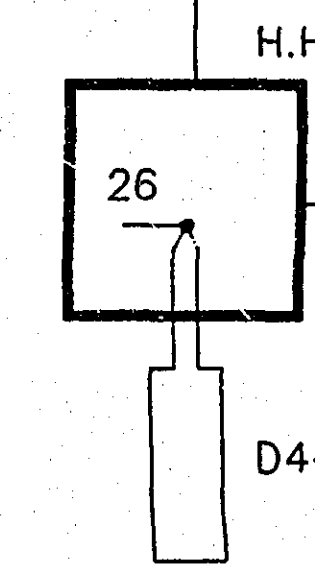
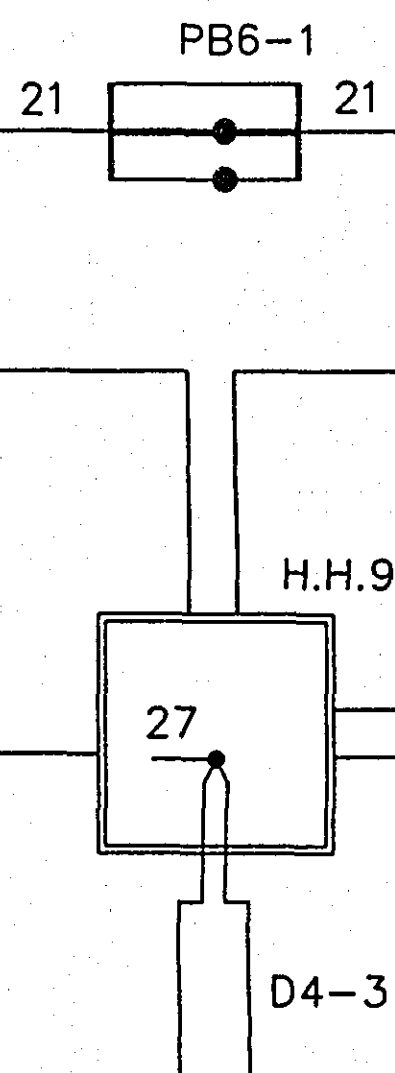
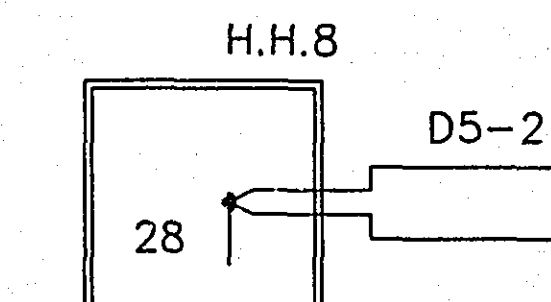
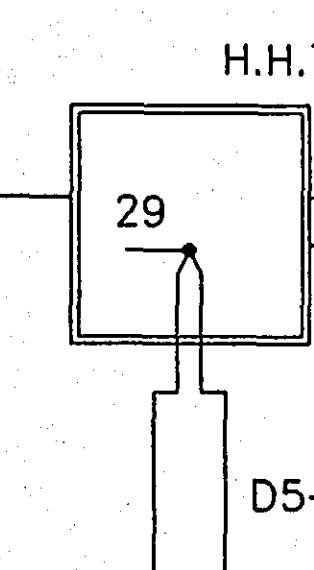
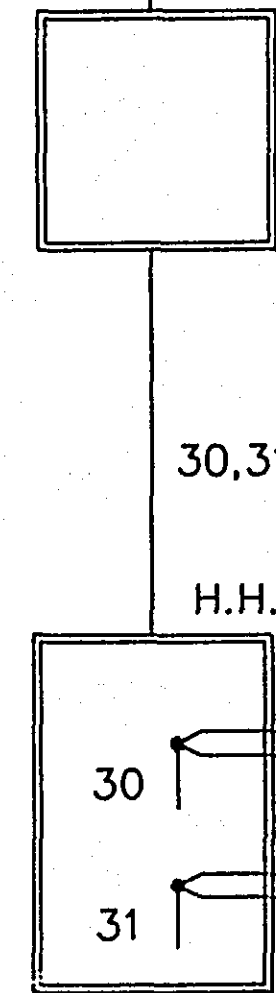
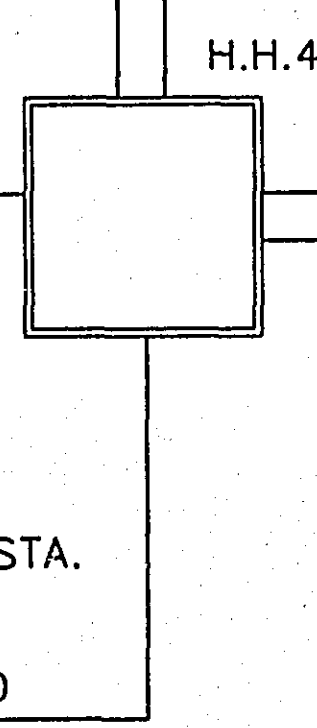
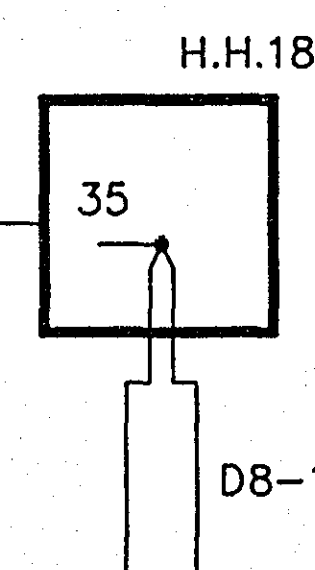
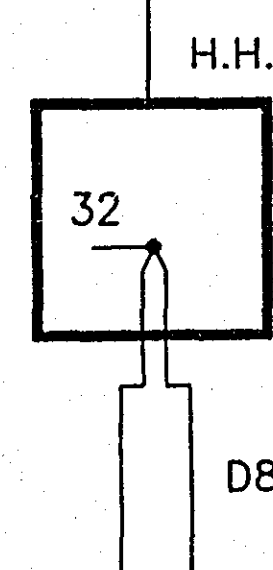
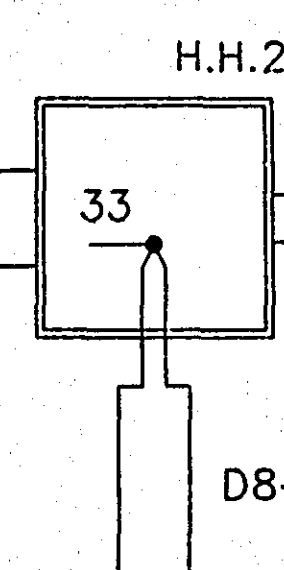
FIELD WIRING DIAGRAM
LEXINGTON AVE & COUNTY ROAD F
SYSTEM A

FOR INFORMATION ONLY

28-132

FROM H.H.11
SEE PREVIOUS
SHEET

FROM CONTROLLER CABINET
SEE PREVIOUS SHEET



FIELD WIRING DIAGRAM
LEXINGTON AVE & COUNTY ROAD F
SYSTEM A

FOR INFORMATION ONLY