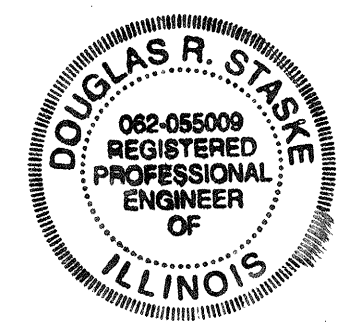


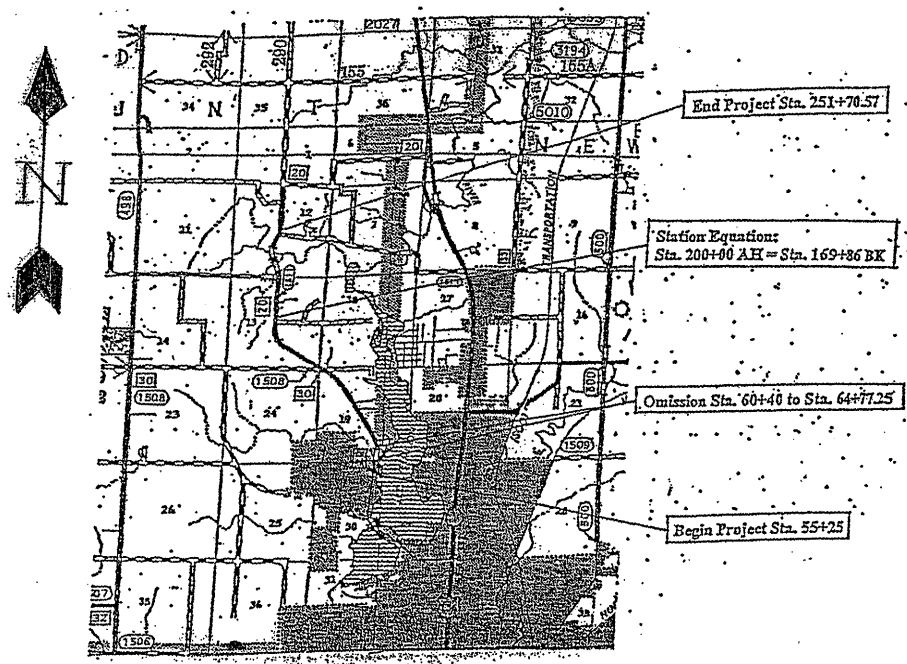
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
C.H. 20	07-00160-00-RS	VERMILION	71	1

STATE OF ILLINOIS
VERMILION COUNTY HIGHWAY DEPARTMENT
PLANS FOR PROPOSED
AMERICAN RECOVERY AND REINVESTMENT ACT PROJECT
COUNTY HIGHWAY 20 FALL RTE 6998
DENMARK ROAD
SECTION 07-00160-00-RS
JOB NO. - C-95-325-09



PROJECT NO. RS-ARA-5016(037)

LOCATION MAP



Project Length: 16631.57ft = 3.15 Miles
 Project Net Length: 16194.32ft = 3.07 Miles

Country Club Rd to Boat Club Rd
 ADT: 1950 (Current) 1950 (Design)
 Functional Classification: Minor Arterial

Boat Club Rd to CH 30
 ADT: 1600 (Current) 1600 (Design)
 Functional Classification: Minor Arterial

CH 30 to 2300N
 ADT: 1450 (Current) 1450 (Design)
 Functional Classification: Minor Arterial

2300N to West Newell Rd
 ADT: 2300 (Current) 2300 (Design)
 Functional Classification: Major Collector

INDEX OF SHEETS	
1	Cover Sheet
2	Summary of Quantities
3	General Notes/Earthwork Summary
4 - 12	Schedule of Quantities
13	Curve Data
14 - 20	Detailed Location Map
21 - 29	Existing Typical Cross Section
30 - 42	Proposed Typical Cross Section
43 - 54	Special Details
55	Temporary Erosion Control
56 - 71	Cross Sections Denmark Rd/Old Union Rd

IDOT HIGHWAY STANDARDS

- 280001-04 Temporary Erosion Control System
- 442101-07 Class B Patches
- 482001-02 HMA Shoulder Adjacent to Flexible Pavement
- 482011-03 HMA Shoulder Strips/Shoulders with Resurfacing or Widening and Resurfacing Projects
- 606101-04 Type A Gutter (Inlet, Outlet & Entrance)
- 701001-02 Off Road Operations 2L,2W, More than 15' (4.5m) Away from Pavement Edge
- 701006-03 Off Road Operations 2L, 2W, 15' (4.5m) to 24" (600mm) Away from Pavement Edge
- 701011-02 Off-Road Moving Operations, 2L, 2W, Day Only
- 701201-03 Lane Closure, 2L, 2W, Day Only, for Speeds ≥ 45 MPH
- 701301-03 Lane Closure, 2L, 2W, Short Time Operations
- 701306-02 Lane Closure, 2L, 2W, Slow Moving Operations - Day Only for Speeds ≥ 45 MPH
- 701311-03 Lane Closure, 2L, 2W, Moving Operations - Day Only
- 701326-03 Lane Closure, 2L, 2W, Pavement Widening, for Speeds ≥ 45 MPH
- 701336-05 Lane Closure, 2L, 2W, Work Areas in Series for Speeds ≥ 45 MPH
- 701901-01 Traffic Control Devices
- 780001-02 Typical Pavement Markings
- 781001-03 Typical Applications Raised Reflective Pavement Markers
- BLR 24-2 Mailbox Turnout for Local Roads

Douglas R. Staske
 Illinois Licensed Professional Engineer Number 05509
 License Expires 11/30/09

APPROVED	<i>August 5</i>	,2009
	<i>Douglas R. Staske</i>	COUNTY ENGINEER
PASSED	<i>8/10</i>	,2009
	<i>DA SR</i>	DISTRICT 5 ENGINEER OF LOCAL ROADS & STREETS
RELEASED FOR BID BASED ON LIMITED REVIEW	<i>August 11</i>	,2009
	<i>John</i>	DEPUTY DIRECTOR OF HIGHWAYS REGION 3 ENGINEER
		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PREPARED BY:
 VERMILION COUNTY HIGHWAY DEPARTMENT
 ENGINEERING DIVISION
June 29, 2009

Contract No. 91409

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
20200100	Earth Excavation	Cu.Yd.	499
20200500	Earth Excavation (Widening)	Cu.Yd.	34
25001000	Seeding Class 2, (Special)	Acre	0.2
25101005	Heavy Duty Excelsior Blanket	Sq. Yd.	690
28000250	Temporary Erosion Control Seeding	Pound	20
28000300	Temporary Ditch Checks	Each	2
28000400	Perimeter Erosion Barrier	Feet	935
35600712	Hot-Mix Asphalt Base Course Widening, 9"	Sq. Yd.	312
35800100	Preparation of Base	Sq.Yd.	2396
35800200	Aggregate Base Repair	Ton	111
40200800	Aggregate Surface Course, Type B	Ton	71
40600100	Bituminous Materials (Prime Coat)	Gal.	4376
40600300	Aggregate (Prime Coat)	Ton	64
40600400	Mixture for Cracks, Joints, and Flangeways	Ton	7
40600625	Leveling Binder (Machine Method) N50	Ton	1973
40600982	Hot-Mix Asphalt Surface Removal-Butt Joint	Sq. Yd.	146
40600990	Temporary Ramp	Sq.Yd.	69
40603080	Hot-Mix Asphalt Binder Course, IL19.0, N50	Ton	560
40603510	Polymerized Hot-Mix Asphalt Surface Course, Mix " C", N50	Ton	3400
40800010	Bituminous Materials (Prime Coat)	Gal.	1345
40800030	Aggregate (Prime Coat)	Ton	11
40800050	Incidental Hot-Mix Asphalt Surfacing	Ton	421
44000152	Hot-Mix Asphalt Surface Removal, 3/4"	Sq.Yd.	37191
44000155	Hot-Mix Asphalt Surface Removal, 1 1/2"	Sq.Yd.	3699
44000400	Gutter Removal	Feet	925
44200970	Class B Patches, Type II, 10"	Sq.Yd.	397
44200994	Class B Patches, Type II, 12"	Sq.Yd.	212
44213200	Saw Cuts	Feet	2979
44300900	Strip Reflective Crack Control Treatment, System A	Feet	16937
48101200	Aggregate Shoulders, Type B	Ton	1039
48203029	Hot-Mix Asphalt Shoulders, 8"	Sq.Yd.	2047
60600095	Class SI Concrete (Outlet)	Cu.Yd.	0.46
67100100	Mobilization	LS	1
70100450	Traffic Control and Protection Standard, 701201	LS	1
70100460	Traffic Control and Protection Standard, 701306	LS	1
70100500	Traffic Control and Protection Standard, 701326	LS	1
70100600	Traffic Control and Protection Standard, 701336	LS	1
70300100	Short -Term Pavement Marking	Feet	3546
70300220	Temporary Pavement Marking - Line 4"	Feet	53345
70301000	Work Zone Pavement Marking Removal	Sq. Ft.	492
* 78000200	Thermoplastic Pavement Marking - Line 4"	Feet	53345
* 78100100	Raised Reflective Pavement Marker	Each	197
Z0017200	Dowel Bars, 1 1/4"	Each	896
Z0017202	Dowel Bars, 1 1/2"	Each	416

* SPECIALTY ITEMS

Prepared by: Vermilion County Highway Dept. 2732 Batestown Road Oakwood, Illinois 61858	DENMARK RD. (C.H. 20) 2009 RESURFACING SECTION 07-00160-00-RS	SHEET 2
		OF 71
		June 29, 2009

General Notes

All work will be done in accordance with the State of Illinois Department of Transportation's "Standard Specifications for Road and Bridge Construction" adop 1,2007; the Supplemental Specifications and Recurring Special Provisions; adopted January 1,2009; the latest edition of the "Illinois Manual on Uniform Traffic Control devices for Streets and Highways"; the "Details" in the plans; the "Special Provisions"; and Highway Standards included in the contract documents.

The revision number indicated for the Standards listed in the index of sheets shall be used in the construction of this project.

All traffic control and other advisory signs needed for construction of this project are to be furnished by the Contractor in accordance with Article 104.17 of the Standard Specifications.

It shall be the contractor's responsibility to determine the actual location of all underground utility facilities. He shall also obtain from the respective utility companies, detailed information relative to the location of their facilities and the working schedules of the utility companies for their marking of the exact location of their facilities.

During construction, the Contractor shall provide access at all times to property owners abutting the project.

Where section, sub-section monuments, or property pins are encountered, the Engineer shall be notified before such monuments or property pins are removed. The Contractor shall protect and carefully preserve all monuments, or property pins until an authorized surveyor or agent has witnessed or otherwise referenced their location. The Contractor will be responsible for having an authorized surveyor re-establish any section, sub-section monument or property pins destroyed by his operations.

Application Rates:

Granular Materials (CA-6 or CA-10)	2.05 Ton/Cu.Yd.
Bituminous Materials (Prime Coat)- Placed on a Bituminous or Concrete Base	0.075 Gal./Sq.Yd.
Bituminous Materials (Prime Coat)- Placed on an Aggregate Base	0.50 Gal./Sq.Yd.
Bituminous Materials (Prime Coat)- Fog Coat	0.03 Gal./Sq.Yd.
Aggregate (Prime Coat)	3.0 Lb./Sq.Yd.
Temporary Erosion Control Seeding	20 Lb./Acre

The following mixture requirements are applicable to this project:

Mixture Use	HMA Binder Course	HMA Surface Course	HMA Base Course	HMA Incid. Surfacing	HMA Shld. Top 1 1/2"	HMA Shld. Bottom 6 1/2"	Level Binder 3/4" and Var. Depth
	<u>Var. Depth</u>	<u>1 1/2"</u>	<u>9" CL D</u>				
AC/PG	PG64-22	PG64-22	PG64-22	PG64-22	PG64-22	PG64-22	PG64-22
RAP (% MAX)	25%	15%	25%	15%	15%	25%	25%
DESIGN AIR VOIDS	4%@N50	4%@N50	4%@N50	4%@N50	4%@N50	4%@N50	4%@N50
MIX COMP/GRAD	IL 19.0	IL 9.5	IL 19.0	IL 9.5	IL 9.5	IL 19.0	IL 9.5
FRICTION GRADE	N/A	Mix C	N/A	Mix C	Mix C	N/A	Mix C

EARTHWORK SUMMARY

LOCATION	EARTH EXCAVATION (CU.YD.)	EARTH EXCAVATION WIDENING (CU.YD.)
	<u>20200100</u>	<u>20200500</u>
55+25 To 60+40	153.0	6.0
HMA Shoulders	308.0	0.0
2300 N	<u>38.0</u>	<u>28.0</u>
TOTAL	499.0	33.0 34.0
WASTE = 532 CU.YD.		

Prepared by:
Vermilion County Highway Dept.
2732 Batestown Road
Oakwood, Illinois 61858

DENMARK RD. (C.H. 20)
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June 29, 2009

SCHEDULE OF QUANTITIES

SEEDING, CLASS 2, SPECIAL 25001000

STATION	TO	STATION	ACRE
LT 56+40		LT 60+40	0.09
RT 55+25		RT 60+40	0.10
TR 2300N			0.01
TOTAL			0.20

HEAVY DUTY EXCELSIOR BLANKET 25101005

STATION	TO	STATION	SQ. YD.
LT 56+40		LT 60+40	269.0
RT 55+25		RT 60+40	421.0
TOTAL			690.0

TEMPORARY EROSION CONTROL SEEDING 28000250

STATION	TO	STATION	POUND
LT 56+40		LT 60+40	9
RT 55+25		RT 60+40	10
TR 2300N			1
TOTAL			20

TEMPORARY DITCH CHECKS 28000300

STATION	EACH
LT 60+40	1.0
RT 60+40	1.0
TOTAL	2.0

PERIMETER EROSION BARRIER 28000400

STATION	TO	STATION	FEET
16' LT 56+40		19' LT 59+00	260
19' LT 59+00		20' LT 60+46	146
20' LT 60+46		16' LT 60+46	4
26' RT 55+25		23' RT 59+50	425
23' RT 59+50		20' RT 60+46	96
20' RT 60+46		16' RT 60+46	4
TOTAL			935

HOT-MIX ASPHALT BASE COURSE WIDENING, 9" 35600712

STATION	TO	STATION	SQ. YD.
LT 56+40		LT 60+40	89
RT 55+25		RT 60+40	115
2300N (S)			36
2300N (N)			72
TOTAL			312

PREPERATION OF BASE 35800100

AGGREGATE BASE REPAIR 35800200

STATION	TYPE	PREP. BASE SQ. YD.	AGG. BASE REPAIR TON
LT 76+16	MBTO	20	1
LT 77+14	ENTRANCE	21	1
LT 77+33	MBTO	22	1
LT 77+97	MBTO	17	1
LT 78+14	ENTRANCE	17	1
LT 79+05	MBTO	20	1
LT 79+30	ENTRANCE	18	1
LT 80+18	MBTO	19	1
LT 80+45	ENTRANCE	33	1
LT 83+11	MBTO	16	1
LT 83+74	MBTO	25	1
LT 84+93	MBTO	19	1
LT 85+21	ENTRANCE	18	1
LT 86+34	MBTO	22	1
LT 86+65	ENTRANCE	21	1
LT 87+58	ENTRANCE	18	1
LT 88+78	MBTO	17	1
LT 89+66	ENTRANCE	20	1
LT 89+84	MBTO	24	1
LT 90+45	MBTO	28	1
RT 90+50	ENTRANCE	21	1
LT 92+11	MBTO	16	1
LT 93+56	MBTO	19	1
LT 93+87	ENTRANCE	28	1
LT 95+91	MBTO	31	1
RT 96+33	ENTRANCE	22	1
LT 96+67	ENTRANCE	21	1
LT 97+24	MBTO	22	1
RT 97+90	INTERSECTION (2150N)	52	2
LT 99+31	MBTO	24	1
RT 99+54	ENTRANCE	18	1
LT 100+79	MBTO	16	1
LT 101+02	ENTRANCE	22	1
RT 102+92	ENTRANCE	16	1
LT 106+54	ENTRANCE	17	1
LT 110+90	MBTO	20	1
LT 111+24	ENTRANCE	44	1
LT 111+61	MBTO	30	1
Rt 111+79	ENTRANCE	29	1
RT 113+32	ENTRANCE	24	1
LT 113+38	ENTRANCE	19	1
LT 113+49	MBTO	22	1
LT 115+40	MBTO	20	1
LT 115+67	ENTRANCE	21	1

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DENMARK RD. (C.H. 20)
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SCHEDULE OF QUANTITIES

PREPERATION OF BASE 35800100, CONTINUED
AGGREGATE BASE REPAIR 35800200, CONTINUED

<u>STATION</u>	<u>TYPE</u>	<u>PREP. BASE</u> <u>SQ. YD.</u>	<u>AGG. BASE REPAIR</u> <u>TON</u>	<u>STATION</u>	<u>TYPE</u>	<u>PREP. BASE</u> <u>SQ. YD.</u>	<u>AGG. BASE REPAIR</u> <u>TON</u>
LT 116+17	MBTO	21	1	RT 223+14	ENTRANCE	26	1
LT 116+43	INTERSECTION (Killions Ridge)	36	2	LT 223+33	MBTO	28	1
LT 116+62	MBTO	22	1	LT 223+35	ENTRANCE	12	1
RT 117+99	ENTRANCE	10	1	RT 227+96	ENTRANCE	14	1
LT 119+51	MBTO	28	1	RT 230+40	MBTO	16	1
RT 119+66	ENTRANCE	23	1	LT 232+04	ENTRANCE	12	1
LT 120+88	ENTRANCE	13	1	RT 232+66	ENTRANCE	14	1
LT 121+60	MBTO	20	1	RT 234+28	ENTRANCE	12	1
LT 121+81	ENTRANCE	22	1	RT 236+12	MBTO	15	1
RT 126+55	ENTRANCE	26	1	LT 236+17	ENTRANCE	18	1
LT 126+68	MBTO	28	1	RT 236+30	ENTRANCE	23	1
LT 127+96	ENTRANCE	23	1	RT 238+06	ENTRANCE	31	1
LT 128+15	MBTO	18	1	LT 238+32	ENTRANCE	11	1
LT 129+83	MBTO	28	1	RT 238+33	MBTO	18	1
RT 130+02	ENTRANCE	19	1	RT 240+58	ENTRANCE	20	1
RT 131+54	ENTRANCE	14	1	RT 241+00	MBTO	18	1
LT 131+62	MBTO	20	1	LT 242+10	ENTRANCE	17	1
LT 131+84	ENTRANCE	18	1	LT 250+16	ENTRANCE	30	1
LT 132+46	ENTRANCE	27	1				
RT 132+93	ENTRANCE	21	1				
LT 133+04	MBTO	32	1				
LT 134+69	ENTRANCE	19	1				
LT 136+23	MBTO	28	1				
RT 136+47	ENTRANCE	18	1				
LT 139+24	MBTO	28	1				
LT 149+19	MBTO	28	1				
LT 157+75	MBTO	14	1				
LT 157+95	INTERSECTION (Neff Lane)	52	2				
LT 200+94	ENTRANCE	23	1				
LT 201+09	MBTO	22	1				
RT 204+07	ENTRANCE	20	1				
LT 204+30	ENTRANCE	11	1				
LT 206+49	MBTO	28	1				
RT 206+59	MBTO	22	1				
LT 210+70	MBTO	25	1				
RT 210+83	ENTRANCE	23	1				
LT 211+06	ENTRANCE	23	1				
LT 212+60	MBTO	28	1				
RT 212+63	ENTRANCE	21	1				
LT 213+31	MBTO	28	1				
RT 213+32	ENTRANCE	22	1				
RT 213+78	ENTRANCE	19	1				
LT 214+60	MBTO	28	1				
RT 214+97	ENTRANCE	23	1				
LT 221+14	MBTO	28	1				
RT 221+21	ENTRANCE	22	1				
						TOTAL	2,396 SY
						TOTAL	111 T

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 Oakwood, Illinois 61858

DENMARK RD. (C.H. 20)
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 June 29, 2009

SCHEDULE OF QUANTITIES

AGGREGATE SURFACE COURSE TYPE B 40200800

LOCATION	TON
Intersections	6
Entrances	65
TOTAL	71

BITUMINOUS MATERIALS (PRIME COAT)

AGGREGATE (PRIME COAT)		BIT. MAT	AGG.	BIT. MAT.	AGG.
STATION	TO STATION	PRIME COAT	PRIME COAT	PRIME COAT	PRIME COAT
		(GALLON)	(TON)	(GALLON)	(TON)
		40600100	40600300	40800010	40800030
55+25	60+40	101	2		
64+77.25	169+86 BK	2102	42		
200+00	251+70.57	951	20		
64+77.25 (FOG COAT)	169+86 (FOG COAT)	841			
200+00 (FOG COAT)	251+70.57 (FOG COAT)	381			
Intersections, Entrances, and Mailbox Turnouts				1345	11
TOTAL		4,376	64	1,345	11

NOTE: STA. EQ. - Sta. 200+00 AH = Sta. 169+86 BK

LEVELING BINDER (MACHINE METHOD) N50 40600625

STATION	TO	STATION	TON
67+50		107+34.94	562
121+11.44		169+86	662
200+00		249+37.47	749
TOTAL			1,973

HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT 40600982

STATION	TO	STATION	SQ.YD.
55+25		55+55	73
60+10		60+40	73
TOTAL			146

TEMPORARY RAMPS 40600990

STATION	TO	STATION	SQ.YD.
55+25		55+30	12
60+35		60+40	12
64+77.25		64+82.25	14
251+63.57		251+70.57	13
0+78.5 (2300 N)		0+85.5 (2300 N)	18
TOTAL			69

HOT-MIX ASPHALT BINDER COURSE IL 19.0, N50 40603080

STATION	TO	STATION	TON
107+34.94		121+11.44	560
TOTAL			560

POLYMERIZED HOT-MIX ASPHALT

SURFACE COURSE, MIX C, N 50 40603510			
STATION	TO	STATION	TON
55+25		60+40	106
64+77.25		169+86	2354
200+00		202+12	50
202+12		251+70.57	890
TOTAL			3,400

INCIDENTAL HOT-MIX ASPHALT SURFACING 40800050

STATION	TYPE	ENTRANCE	EXISTING SURFACE	TON
LT 75+98	ENTRANCE	PE	BITUMINOUS	1.1
LT 76+16	MBTO		AGGREGATE	3.0
LT 77+14	ENTRANCE	PE	AGGREGATE	2.7
LT 77+33	MBTO		AGGREGATE	3.0
LT 77+97	MBTO		AGGREGATE	2.0
LT 78+14	ENTRANCE	PE	AGGREGATE	2.2
LT 79+05	MBTO		AGGREGATE	3.0
LT 79+30	ENTRANCE	PE	AGGREGATE	2.3
LT 80+18	MBTO		AGGREGATE	2.0
LT 80+45	ENTRANCE	PE	AGGREGATE	4.1
LT 83+11	MBTO		AGGREGATE	2.0
LT 83+38	ENTRANCE	PE	BITUMINOUS	2.5
LT 83+52	ENTRANCE	PE	BITUMINOUS	2.6
LT 83+74	MBTO		AGGREGATE	3.0
RT 84+36	ENTRANCE	PE	BITUMINOUS	2.7
LT 84+93	MBTO		AGGREGATE	2.0
LT 85+21	ENTRANCE	PE	AGGREGATE	2.3
LT 86+34	MBTO		AGGREGATE	3.0
LT 86+65	ENTRANCE	PE	AGGREGATE	2.7
LT 87+58	ENTRANCE	PE	AGGREGATE	2.2
LT 88+78	MBTO		AGGREGATE	2.0
RT 88+90	ENTRANCE	PE	CONCRETE	1.0
LT 89+04	ENTRANCE	PE	BITUMINOUS	1.0
LT 89+66	ENTRANCE	PE	AGGREGATE	2.5
LT 89+84	MBTO		AGGREGATE	3.0
LT 90+45	MBTO		AGGREGATE	4.0
RT 90+50	ENTRANCE	PE	AGGREGATE	2.7

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2732 Batestown Road
Oakwood, Illinois 61858

DENMARK RD. (C.H. 20)
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June 29, 2009

SCHEDULE OF QUANTITIES

INCIDENTAL HOT-MIX ASPHALT SURFACING 40800050, CONTINUED

STATION	TYPE	ENTRANCE	EXISTING SURFACE	TON	STATION	TYPE	ENTRANCE	EXISTING SURFACE	TON
LT 92+11	MBTO		AGGREGATE	2.0	LT 128+15	MBTO		AGGREGATE	2.0
LT 92+34	ENTRANCE	PE	CONCRETE	1.5	LT 129+43	ENTRANCE	PE	BITUMINOUS	1.2
Rt 92+50	ENTRANCE	PE	BITUMINOUS	1.1	LT 129+83	MBTO		AGGREGATE	4.0
RT 93+27	INTERSECTION	LAUREL DR	BITUMINOUS	3.0	RT 130+02	ENTRANCE	PE	AGGREGATE	2.4
LT 93+56	MBTO		AGGREGATE	2.0	RT 131+54	ENTRANCE	PE	AGGREGATE	1.8
LT 93+87	ENTRANCE	PE	AGGREGATE	3.6	LT 131+62	MBTO		AGGREGATE	2.0
LT 94+23	ENTRANCE	PE	BITUMINOUS	4.2	LT 131+84	ENTRANCE	PE	AGGREGATE	2.3
LT 94+55	MBTO		BITUMINOUS	4.0	LT 132+46	ENTRANCE	PE	AGGREGATE	3.4
LT 94+96	ENTRANCE	PE	BITUMINOUS	4.2	RT 132+93	ENTRANCE	PE	AGGREGATE	2.7
LT 95+91	MBTO		AGGREGATE	4.0	LT 133+04	MBTO		AGGREGATE	4.0
RT 96+33	ENTRANCE	PE	AGGREGATE	2.8	LT 134+69	ENTRANCE	PE	AGGREGATE	2.4
LT 96+67	ENTRANCE	PE	AGGREGATE	2.7	LT 135+24	MBTO		BITUMINOUS	2.0
LT 97+24	MBTO		AGGREGATE	3.0	LT 135+41	ENTRANCE	PE	BITUMINOUS	1.3
LT 97+51	ENTRANCE	PE	BITUMINOUS	1.4	LT 136+23	MBTO		AGGREGATE	4.0
RT 97+90	INTERSECTION	2150N	AGGREGATE	6.5	RT 136+47	ENTRANCE	PE	AGGREGATE	2.3
LT 99+31	MBTO		AGGREGATE	3.0	LT 139+24	MBTO		AGGREGATE	4.0
LT 98+99	INTERSECTION	WYNN RD	BITUMINOUS	1.9	RT 139+53	ENTRANCE	PE	BITUMINOUS	1.6
RT 99+54	ENTRANCE	PE	AGGREGATE	2.3	RT 148+94	ENTRANCE	PE	BITUMINOUS	1.3
LT 100+79	MBTO		AGGREGATE	2.0	LT 149+14	MBTO		AGGREGATE	4.0
LT 101+02	ENTRANCE	PE	AGGREGATE	2.8	LT 155+76	MBTO		BITUMINOUS	2.0
RT 102+92	ENTRANCE	FE	AGGREGATE	2.0	LT 155+99	ENTRANCE	PE	BITUMINOUS	1.5
LT 106+54	ENTRANCE	FE	AGGREGATE	2.2	LT 157+75	MBTO		AGGREGATE	2.0
RT 110+89	ENTRANCE	PE	BITUMINOUS	1.8	LT 157+95	INTERSECTION	NEFF LANE	AGGREGATE	6.5
LT 110+90	MBTO		AGGREGATE	3.0	RT 167+52	INTERSECTION	SHORT RD	BITUMINOUS	2.6
LT 111+24	ENTRANCE	PE	AGGREGATE	5.5	LT 200+94	ENTRANCE	PE	AGGREGATE	2.9
LT 111+61	MBTO		AGGREGATE	4.0	LT 201+09	MBTO		AGGREGATE	3.0
Rt 111+79	ENTRANCE	PE	AGGREGATE	3.7	RT 204+07	ENTRANCE	PE	AGGREGATE	2.5
RT 113+32	ENTRANCE	PE	AGGREGATE	3.1	LT 204+30	ENTRANCE	FE	AGGREGATE	1.4
LT 113+38	ENTRANCE	PE	AGGREGATE	2.4	LT 206+49	MBTO		AGGREGATE	4.0
LT 113+49	MBTO		AGGREGATE	3.0	RT 206+59	MBTO		AGGREGATE	3.0
LT 115+40	MBTO		AGGREGATE	2.0	RT 206+87	ENTRANCE	PE	CONCRETE	1.2
LT 115+67	ENTRANCE	PE	AGGREGATE	2.7	RT 209+27	INTERSECTION	BALTIC DR	BITUMINOUS	3.3
LT 116+17	MBTO		AGGREGATE	3.0	LT 210+70	MBTO	PE	AGGREGATE	3.0
LT 116+43	INTERSECTION	KILLIONS RDG	AGGREGATE	4.6	RT 210+83	ENTRANCE	PE	AGGREGATE	2.9
LT 116+62	MBTO		AGGREGATE	3.0	LT 211+06	ENTRANCE	PE	AGGREGATE	2.9
RT 117+99	ENTRANCE	FE	DIRT	1.3	LT 212+60	MBTO		AGGREGATE	4.0
LT 119+51	MBTO		AGGREGATE	4.0	RT 212+63	ENTRANCE	PE	AGGREGATE	2.6
RT 119+66	ENTRANCE	PE	AGGREGATE	2.9	LT 213+31	MBTO		AGGREGATE	4.0
LT 120+88	ENTRANCE	FE	DIRT	1.6	RT 213+32	ENTRANCE	PE	AGGREGATE	2.8
LT 121+60	MBTO		AGGREGATE	3.0	RT 213+78	ENTRANCE	PE	AGGREGATE	2.5
LT 121+81	ENTRANCE	PE	AGGREGATE	2.8	LT 214+60	MBTO		AGGREGATE	4.0
LT 124+87	INTERSECTION	CARLTON DEL	BITUMINOUS	2.8	RT 214+97	ENTRANCE	PE	AGGREGATE	2.9
LT 125+25	INTERSECTION	CH 30/2200N	BITUMINOUS	4.9	LT 221+14	MBTO		AGGREGATE	4.0
RT 126+55	ENTRANCE	PE	AGGREGATE	3.2	RT 221+21	ENTRANCE	PE	AGGREGATE	2.8
LT 126+68	MBTO		AGGREGATE	4.0	RT 223+14	ENTRANCE	PE	AGGREGATE	3.2
LT 127+96	ENTRANCE	PE	AGGREGATE	2.9	LT 223+33	MBTO		AGGREGATE	4.0

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SCHEDULE OF QUANTITIES

INCIDENTAL HOT-MIX ASPHALT SURFACING 40800050, CONTINUED

LT 223+35	ENTRANCE	FE	AGGREGATE	1.5
LT 224+24	INTERSECTION	2300N	BITUMINOUS	41.2
RT 227+96	ENTRANCE	FE	DIRT	1.8
RT 230+31	ENTRANCE	PE	BITUMINOUS	1.1
RT 230+40	MBTO		AGGREGATE	2.0
LT 232+04	ENTRANCE	FE	AGGREGATE	1.5
RT 232+66	ENTRANCE	FE	AGGREGATE	1.8
LT 233+78	MBTO		BITUMINOUS	2.0
LT 234+06	ENTRANCE	PE	BITUMINOUS	2.6
RT 234+28	ENTRANCE	FE	AGGREGATE	1.5
RT 236+12	MBTO		AGGREGATE	2.0
LT 236+17	ENTRANCE	FE	AGGREGATE	2.2
RT 236+30	ENTRANCE	PE	AGGREGATE	2.9
RT 238+06	ENTRANCE	PE	AGGREGATE	3.9
LT 238+32	ENTRANCE	FE	AGGREGATE	1.3
RT 238+33	MBTO		AGGREGATE	2.0
RT 240+58	ENTRANCE	PE	AGGREGATE	2.5
RT 241+00	MBTO		AGGREGATE	2.0
LT 242+10	ENTRANCE	FE	AGGREGATE	2.2
RT 247+16	MBTO		BITUMINOUS	2.0
RT 247+32	ENTRANCE	PE	BITUMINOUS	1.5
LT 250+16	ENTRANCE	PE	AGGREGATE	3.8
RT 251+21	ENTRANCE	PE	BITUMINOUS	1.1
TOTAL				421.0

GUTTER REMOVAL 44000400

STATION	TO	STATION	FEET
LT 56+40		LT 60+40	400
LT 60+40		LT 60+45	5
RT 55+25		RT 60+40	515
RT 60+40		RT 60+45	5
TOTAL			925

CLASS B PATCHES, TYPE II, 10" 44200970

STATION	TYPE II, 10" NBL			TYPE II, 10" SBL		
	L	W	SQ.YD.	L	W	SQ.YD.
200+27	6	11	7.33	6	11	7.33
200+82	6	11	7.33	6	11	7.33
204+80	6	11	7.33	6	11	7.33
206+14	6	11	7.33	6	11	7.33
206+74	6	11	7.33	6	11	7.33
209+53	6	11	7.33	6	11	7.33
210+65	6	11	7.33	6	11	7.33
210+87				6	11	7.33
212+13	6	11	7.33	6	11	7.33
213+28	6	11	7.33	6	11	7.33
215+93	6	11	7.33	6	11	7.33
217+14	6	11	7.33	6	11	7.33
218+16	6	11	7.33	6	11	7.33
218+81	6	11	7.33	6	11	7.33
221+46	6	11	7.33	6	11	7.33
222+32	6	11	7.33	6	11	7.33
223+74	6	11	7.33	6	11	7.33
227+49	6	11	7.33	6	11	7.33
229+25	6	11	7.33	6	11	7.33
230+93	6	11	8.51			
234+11	6	11	7.33	6	11	7.33
235+44	6	11	7.33	6	11	7.33
236+45	6	11	7.33	6	11	7.33
237+07	6	11	7.33	6	11	7.33
237+73	6	11	7.33	6	11	7.33
238+39	6	11	7.33	6	11	7.33
244+81	6	11	7.33	6	11	7.33
249+53	6	11	7.33	6	11	7.33
Subtotal			199.09	197.91		
TOTAL			397.0			

HOT-MIX ASPHALT SURFACE REMOVAL, 3/4" 44000152

STATION	TO	STATION	SQ.YD.
76+17.25		169+86	24,984
200+00		202+00	512
202+00		248+86.67	11,457
TR 2300N (0+11 to 0+69)			238
TOTAL			37,191

HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2" 44000155

STATION	TO	STATION	SQ.YD.
64+77.25		76+17.25	3040
249+36		251+70.57	574
ROSE HILL			38
BOAT CLUB RD.			27
0+69 (2300N)		0+85.5 (2300N)	20
TOTAL			3,699

SCHEDULE OF QUANTITIES

CLASS B PATCHES, TYPE II, 12" 44200994

STATION	TYPE II, 12" NBL			TYPE II, 12" SBL		
	L	W	SQ.YD.	L	W	SQ.YD.
76+30	6	12	8	6	12	8
76+86	6	12	8	6	12	8
83+33	6	12	8	6	12	8
84+34	7	12	9.33	7	12	9.33
84+92	6	12	8	6	12	8
87+26	6	12	8	6	12	8
90+33	6	12	8	6	12	8
90+92	6	12	8	6	12	8
95+34				6	12	8
95+83	6	12	8			
110+38				7	12	9.34
114+40	6	12	8	6	12	8
122+38				6	12	8
124+06	6	12	8	6	12	8
161+93	6	12	8	6	12	8
	SUBTOTAL 97.33			TOTAL 114.67		
				TOTAL 212.0		

SAW CUTS 44213200

STATION	SAW CUT LENGTH		SAW CUT LENGTH	
	NBL (FT)		SBL (FT)	
76+30	42		36	
76+86	42		36	
83+33	42		36	
84+34	43		36	
84+92	42		36	
87+26	42		36	
90+33	42		36	
90+92	42		36	
95+34	---		42	
95+83	42		---	
110+38	---		43	
114+40	42		36	
122+38	---		42	
124+06	42		36	
161+93	42		36	
200+11	39		33	
200+82	39		33	
201+27	39		33	
204+80	39		33	
206+14	39		33	
206+74	39		33	
209+53	39		33	
210+65	39		33	
210+87	---		39	
212+13	39		33	
213+28	39		33	
215+93	39		33	
217+14	39		33	
218+16	39		33	
221+46	39		33	
222+32	39		33	
223+24	39		33	
227+49	39		33	
229+25	39		33	
230+93	40		---	
234+11	39		33	
235+44	39		33	
236+45	39		33	
237+07	39		33	
237+73	39		33	
238+39	39		33	
244+81	39		33	
249+53	39		33	
	SUBTOTAL 1,559.0		TOTAL 1,420.00	
			TOTAL 2,979.0	

Prepared by:
 Vermilion County Highway Dept.
 2732 Batestown Road
 Oakwood, Illinois 61858

DENMARK RD. (C.H. 20)
2009 RESURFACING
SECTION 07-00160-00-RS

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SCHEDULE OF QUANTITIES

STRIP REFLECTIVE CRACK CONTROL TREATMENT SYSTEM A 44300900

STATION	TO	STATION	FEET
RT 75+84		RT 81+88	604
RT 82+87		RT 93+33	1046
RT 94+09		RT 99+58	549
RT 100+85		RT 150+02	4917
RT 157+43		RT 158+14	71
RT 165+70		RT 166+04	34
LT 75+36		LT 133+70	5834
LT 134+06		LT 136+19	213
LT 138+04		LT 141+38	334
LT 141+88		LT 141+92	4
LT 142+15		LT 151+04	889
LT 151+39		LT 154+53	314
LT 156+45		LT 157+65	120
LT 159+01		LT 162+36	335
LT 163+02		LT 168+97	595
2300 N (Lt. 0+11 to Lt. 0+69)			84
2300 N (Rt. 0+11 to Rt. 0+69)			79
LT 56+40		LT 60+40	400
RT 55+25		RT 60+40	515
TOTAL			16,937

AGGREGATE SHOULDERS, TYPE "B" 48101200

STATION	TO	STATION	FEET
64+77.25		251+70.57	1121
Intersections			10
Sideroad 2300N			21
Deduct (Entrances, Mailbox turnouts)			-113
TOTAL			1,039

NOTE: STA. EQ. - Sta. 200+00 AH = Sta. 169+86 BK

HOT-MIX ASPHALT SHOULDERS, 8" 48203029

STATION	TO	STATION	SO.YD.
Lt. 83+45.21		Lt. 92+19.02	291
Lt. 108+25.69		Lt. 120+20.69	398
Rt. 147+78.07		Rt. 165+48.97	590
Lt. 221+04.14		Lt. 223+64.74	87
Lt. 225+10.24		Lt. 226+96	62
Lt. 231+26.10		Lt. 234+79.01	118
Rt. 237+75.56		Rt. 242+42.23	156
Rt. 245+19.17		Rt. 249+41.57	141
Lt. 56+40		Lt. 60+40	89
Rt. 55+25		Rt. 60+40	115
TOTAL			2,047

CLASS SI CONCRETE (OUTLET) 60600095

STATION	TO	STATION	CU.YD.
Lt. 60+40		Lt. 60+45	.23
Rt. 60+40		Rt. 60+45	.23
TOTAL			.46

SHORT TERM PAVEMENT MARKING 70300100

STATION	TO	STATION	FEET
55+25 (Surface)		60+40 (Surface)	47
64+77.25 (BINDER)		169+86 (BINDER)	956
200+00 (BINDER)		251+70.57 (BINDER)	470
82+45.21 (LB)		93+19.02 (LB)	98
107+25.69 (LB)		121+70.69 (LB)	132
146+78.07 (LB)		166+48.97 (LB)	180
220+04.14 (LB)		227+96 (LB)	72
230+26.1 (LB)		235+79.01 (LB)	51
236+47.56 (LB)		243+70.23 (LB)	66
244+19.17 (LB)		249+46.17 (LB)	48
64+77.25 (Surface)		169+86 (Surface)	956
200+00 (AH) (Surface)		251+70.57 (Surface)	470
TOTAL			3,546

NOTE: STA. EQ. - Sta. 200+00 AH = Sta. 169+86 BK

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SCHEDULE OF QUANTITIES

TEMPORARY PAVEMENT MARKING - LINE 4" 70300220

STATION	TO	STATION	SOLID YELLOW	YELLOW SKIP/DASH 4"	SOLID WHITE 4"	TOTAL FEET
Lt. 56+41		Lt. 60+40			400	400
Lt. 55+25		Lt. 60+40	515			515
Rt. 55+25		Rt. 60+40	515			515
Rt. 55+25		Rt. 60+40			515	515
Lt. 64+77.25		Lt. 81+76.21	1699			1699
Lt. 113+09.69		Lt. 123+03.69	994			994
Lt. 149+66.87		Lt. 168+44.97	1879			1879
Lt. 209+66.14		Lt. 215+46.14	580			580
Lt. 226+38.14		Lt. 251+70.57	2533			2533
Rt. 64+77.25		Rt. 76+89.21	1212			1212
Rt. 96+87.69		Rt. 119+84.69	2297			2297
Rt. 130+76.69		Rt. 161+25.97	3050			3050
Rt. 200+61.97		Rt. 209+04.14	843			843
Rt. 218+85.14		Rt. 251+70.57	3286			3286
Lt. 81+76.21		Lt. 113+09.69		784		784
Lt. 123+03.69		Lt. 149+66.87		666		666
Lt. 200+61.97		Lt. 209+66.14		227		227
Lt. 208+85.14		Lt. 226+38.14		439		439
Rt. 76+89.21		Rt. 81+76.21		122		122
Rt. 119+84.69		Rt. 123+03.69		80		80
Rt. 161+25.97		Rt. 169+86		215		215
Rt. 200+00		Rt. 200+61.97		16		16
Rt. 209+04.14		Rt. 218+85.14		246		246
Lt. 64+77.25		Lt. 99+04.75			3428	3428
Lt. 99+49.75		Lt. 116+51.25			1702	1702
Lt. 116+93.25		Lt. 125+17.75			824	824
Lt. 123+64.74		Lt. 0+69 (2300N)			96	96
Lt. 126+26.75		Lt. 158+04.75			3178	3178
Lt. 158+65.75		Lt. 169+86			1121	1121
Lt. 200+00		Lt. 223+64.74			2365	2365
Lt. 225+10.74		Lt. 251+70.57			2660	2660
Rt. 0+85.5 (2300N)		Lt. 125+10.24 (CH 20)			114	114
Rt. 64+77.25		Rt. 65+17.25			40	40
Rt. 67+10.25		Rt. 67+64.25			54	54
Rt. 68+49.25		Rt. 74+68.25			619	619
Rt. 75+62.25		Rt. 93+23.75			1762	1762
Rt. 93+92.75		Rt. 97+88.75			396	396
Rt. 98+45.75		Rt. 124+86.25			2641	2641
Rt. 125+50.25		Rt. 167+58.25			4208	4208
Rt. 168+18.25		Rt. 169+86			168	168
Rt. 200+00		Rt. 208+88			888	888
Rt. 209+68		Rt. 249+3			3968	3968
		SUBTOTAL	19,403	2,795	31,147	53,345

WORK ZONE PAVEMENT MARKING REMOVAL 70301000

STATION	TO	STATION	SQ.FT.
55+25		60+40	16
64+77.25 (Surface Only)		169+86	319
200+00 (Surface Only)		251+70.57	157
		TOTAL	492

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SCHEDULE OF QUANTITIES

THEMOPLASTIC PAVEMENT MARKING LINE, 4" 78000200

STATION	TO	STATION	SOLID YELLOW	YELLOW SKIP/DASH 4"	SOLID WHITE 4"	TOTAL FEET
Lt. 56+41		Lt. 60+40			400	400
Lt. 55+25		Lt. 60+40	515			515
Rt. 55+25		Rt. 60+40	515			515
Rt. 55+25		Rt. 60+40			515	515
Lt. 64+77.25		Lt. 81+76.21	1699			1699
Lt. 113+09.69		Lt. 123+03.69	994			994
Lt. 149+66.87		Lt. 168+44.97	1879			1879
Lt. 209+66.14		Lt. 215+46.14	580			580
Lt. 226+38.14		Lt. 251+70.57	2533			2533
Rt. 64+77.25		Rt. 76+89.21	1212			1212
Rt. 96+87.69		Rt. 119+84.69	2297			2297
Rt. 130+76.69		Rt. 161+25.97	3050			3050
Rt. 200+61.97		Rt. 209+04.14	843			843
Rt. 218+85.14		Rt. 251+70.57	3286			3286
Lt. 81+76.21		Lt. 113+09.69		784		784
Lt. 123+03.69		Lt. 149+66.87		666		666
Lt. 200+61.97		Lt. 209+66.14		227		227
Lt. 208+85.14		Lt. 226+38.14		439		439
Rt. 76+89.21		Rt. 81+76.21		122		122
Rt. 119+84.69		Rt. 123+03.69		80		80
Rt. 161+25.97		Rt. 169+86		215		215
Rt. 200+00		Rt. 200+61.97		16		16
Rt. 209+04.14		Rt. 218+85.14		246		246
Lt. 64+77.25		Lt. 99+04.75			3428	3428
Lt. 99+49.75		Lt. 116+51.25			1702	1702
Lt. 116+93.25		Lt. 125+17.75			824	824
Lt. 123+64.74		Lt. 0+69 (2300N)			96	96
Lt. 126+26.75		Lt. 158+04.75			3178	3178
Lt. 158+65.75		Lt. 169+86			1121	1121
Lt. 200+00		Lt. 223+64.74			2365	2365
Lt. 225+10.74		Lt. 251+70.57			2660	2660
Rt. 0+85.5 (2300N)		Lt. 125+10.24 (CH 20)			114	114
Rt. 64+77.25		Rt. 65+17.25			40	40
Rt. 67+10.25		Rt. 67+64.25			54	54
Rt. 68+49.25		Rt. 74+68.25			619	619
Rt. 75+62.25		Rt. 93+23.75			1762	1762
Rt. 93+92.75		Rt. 97+88.75			396	396
Rt. 98+45.75		Rt. 124+86.25			2641	2641
Rt. 125+50.25		Rt. 167+58.25			4208	4208
Rt. 168+18.25		Rt. 169+86			168	168
Rt. 200+00		Rt. 208+88			888	888
Rt. 209+68		Rt. 249+3			3968	3968
		SUBTOTAL	19,403	2,795	31,147	53,345

RAISED REFLECTIVE PAVEMENT MARKERS 78100100

STATION	TO	STATION	EACH
64+77.25		169+86	132
200+00 (AH)		251+70.57	65
		TOTAL	197

NOTE: STA. EQ. - Sta. 200+00 AH = Sta. 169+86 BK

DOWEL BARS 1 1/4" Z0017200

STATION	TO	STATION	EACH
200+00 (AH)		251+70.57	896
		TOTAL	896

NOTE: STA. EQ. - Sta. 200+00 AH = Sta. 169+86 BK

DOWEL BARS 1 1/2" Z0017202

STATION	TO	STATION	EACH
64+77.25		169+86	416
		TOTAL	416

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CURVE DATA

CURVE DATA

CURVE DATA

Curve 1

PI Sta. 70+05.86
 Δ 34°-02'-04"
 D 5°-42'-52"
 R 1002.67'
 T 306.88'
 L 595.60'
 E 45.91'
 PC Sta. 66+98.98
 PT Sta. 72+94.58
Superelevation Existing: Varies 6% - 8%
 Proposed: SAME
Transitions: Length 142.0'
 Sta. 65+70.98 to Sta. 67+62.98 (Transition from 6% to 8%)
 Sta. 72+59.08 to Sta. 74+01.08

Curve 2

PI Sta. 87+82.50
 Δ 6°-07'
 D 0°-42'
 R 8185.21'
 T 437.29'
 L 873.81'
 E 11.71'
 PC Sta. 83+45.21
 PT Sta. 92+19.02
Superelevation Existing: 1.25%
 Proposed: Normal Crown

Curve 5

PI Sta. 224+01.72
 Δ 14°-47'-47"
 D 2°-30'-00"
 R 2291.83'
 T 297.58'
 L 591.86'
 E 19.24'
 PC Sta. 221+04.14
 PT Sta. 226+96
Superelevation Existing: 4.75%
 Proposed: 5.0 %
Transitions: Length 150.0'
 Sta. 220+04.14 to Sta. 221+54.14
 Sta. 226+46 to Sta. 227+96

Curve 6

PI Sta. 233+02.68
 Δ 5°-17'-37"
 D 1°-30'-00"
 R 3819.72'
 T 176.58'
 L 352.91'
 E 4.08'
 PC Sta. 231+26.10
 PT Sta. 234+79.01
Superelevation Existing: 3.0%
 Proposed: 3.0%
Transitions: Length 150.0'
 Sta. 230+26.10 to Sta. 231+76.10
 Sta. 234+29.01 to Sta. 235+79.01

Curve 9

PI Sta. 253+10.14
 Δ 28°-05'-55"
 D 7°-30'-00"
 R 763.94'
 T 191.17'
 L 374.65'
 E 23.56'
 PC Sta. 251+18.97
 PT Sta. 254+93.62
Superelevation Existing: 8.0%
 Proposed: 8.0%
Transitions: Length 192'
 Sta. 249+90.97 to Sta. 251+82.97
 Sta. 254+29.62 to Sta. 256+21.62

Curve 3

PI Sta. 114+32
 Δ 23°-54'
 D 2°-00'
 R 2864.83'
 T 606.31'
 L 1195.00'
 E 63.46'
 PC Sta. 108+25.69
 PT Sta. 120+20.69
Superelevation Existing: 1.6%
 Proposed: 4.0%
Transition: Length 121.0'
 Sta. 107+34.94 to Sta. 108+55.94
 Sta. 119+90.44 to Sta. 121+11.44

Curve 4

PI Sta. 157+49.42
 Δ 58°-27'
 D 3°-18'
 R 1736.26'
 T 971.35'
 L 1770.90'
 E 253.01'
 PC Sta. 147+78.07
 PT Sta. 165+48.97
Superelevation Existing: 4.24%
 Proposed: 5.0%
Transitions: Length 196.56'
 Sta. 146+47.03 to 148+43.59
 Sta. 164+83.45 to 166+80.01

Curve 7

PI Sta. 240+16.73
 Δ 35°-00'
 D 7°-30'
 R 763.94'
 T 240.87'
 L 466.67'
 E 37.07'
 PC Sta. 237+75.56
 PT Sta. 242+42.23
Superelevation Existing: 8.0%
 Proposed: 8.0%
Transitions: Length 209.0'
 Sta. 236+18.81 to Sta. 238+27.81
 Sta. 241+89.98 to Sta. 243+98.98

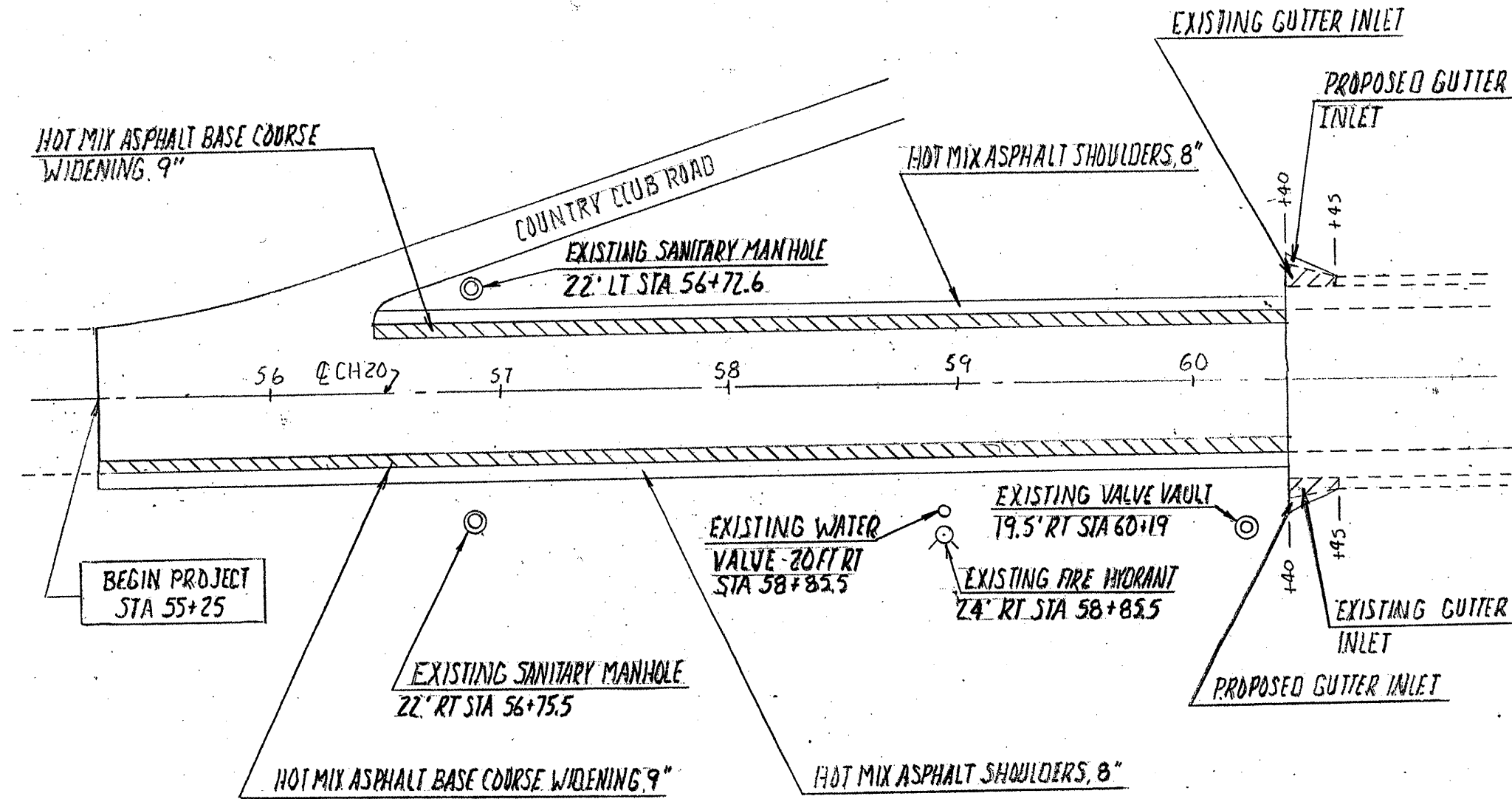
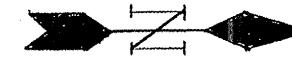
Curve 8

PI Sta. 246+83.38
 Δ 13°-04'-48"
 D 4°-00'-00"
 R 1432.40'
 T 164.21'
 L 327.00'
 E 9.38'
 PC Sta. 245+19.17
 PT Sta. 248+46.17
Superelevation Existing: 6.25%
 Proposed: 6.5%
Transitions: Length 176.0'
 Sta. 243+87.17 to Sta. 245+63.17
 Sta. 248+02.17 to Sta. 249+78.17

Prepared by: Vermilion County Highway Dept. 2732 Batestown Road Oakwood, Illinois 61858	DENMARK RD. (C.H. 20) 2009 RESURFACING SECTION 07-00160-00-RS	SHEET 13
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DETAILED LOCATION MAP

STA 55+25 TO 60+40

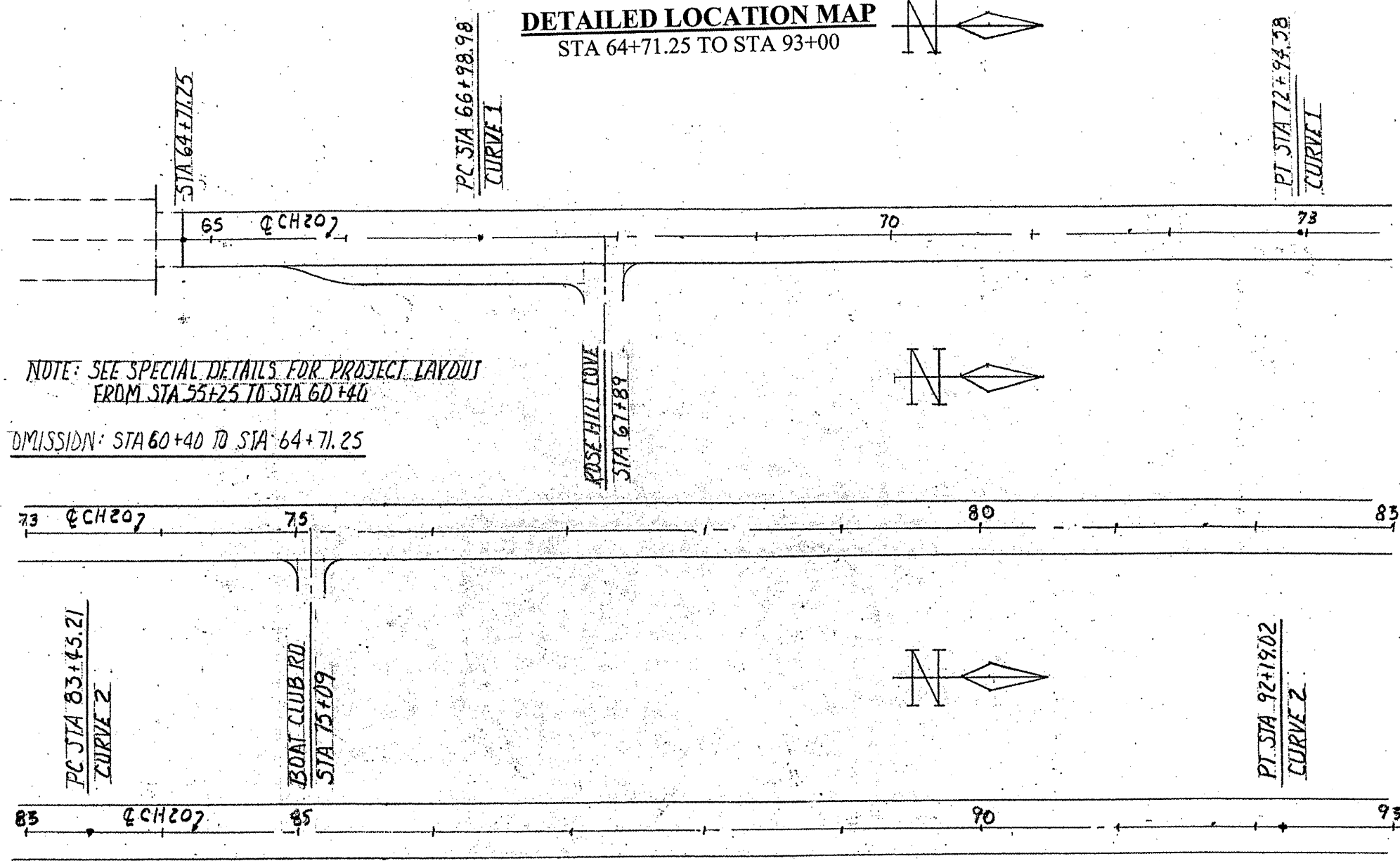
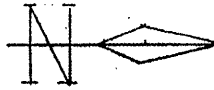


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 2009 RESURFACING
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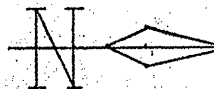
SHEET 14
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June 29, 2009

DETAILED LOCATION MAP
STA 64+71.25 TO STA 93+00



NOTE: SEE SPECIAL DETAILS FOR PROJECT LAYOUT FROM STA 55+25 TO STA 60+40

MISSIGN: STA 60+40 TO STA 64+71.25



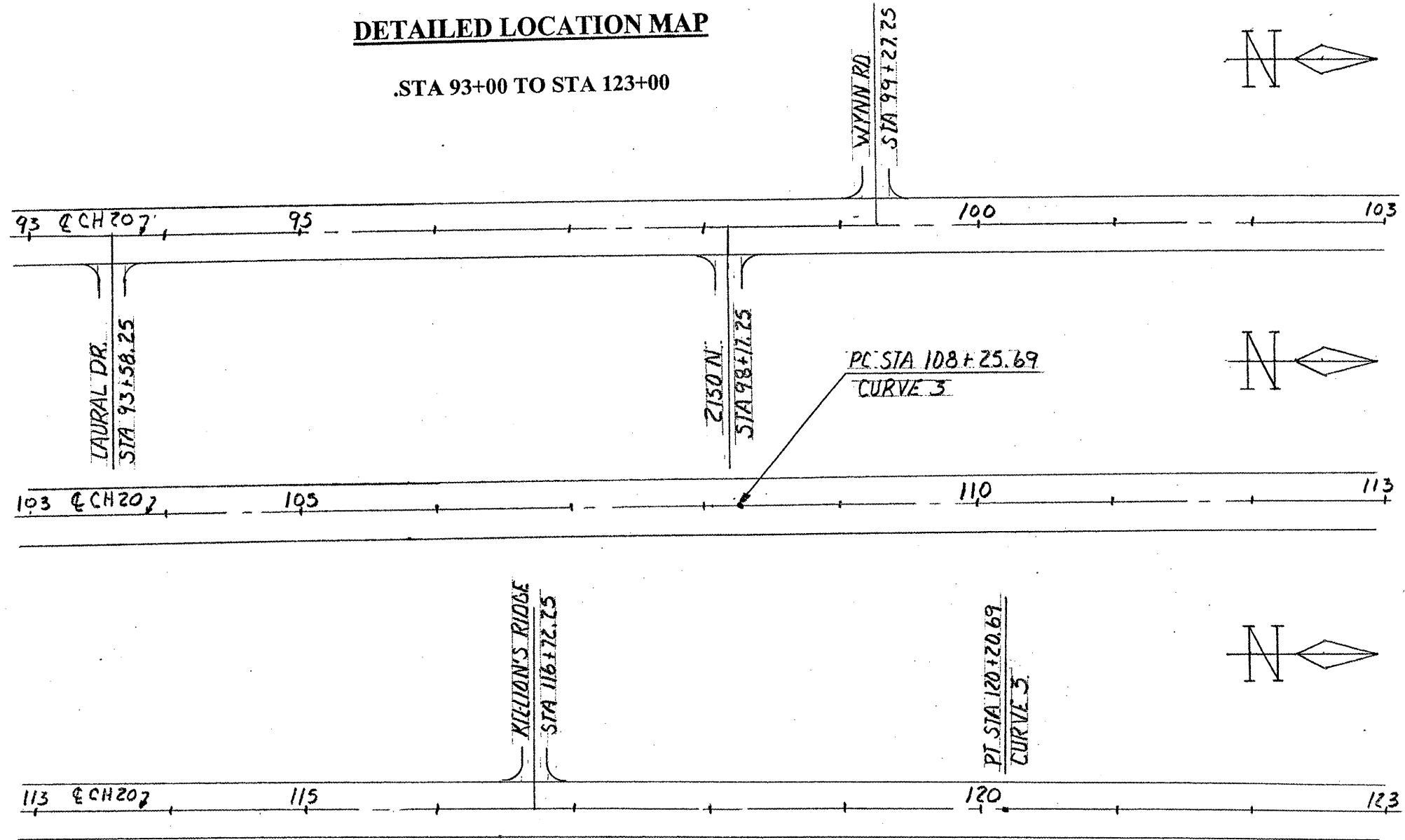
Prepared by:
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Oakwood, Illinois 61858

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DETAILED LOCATION MAP

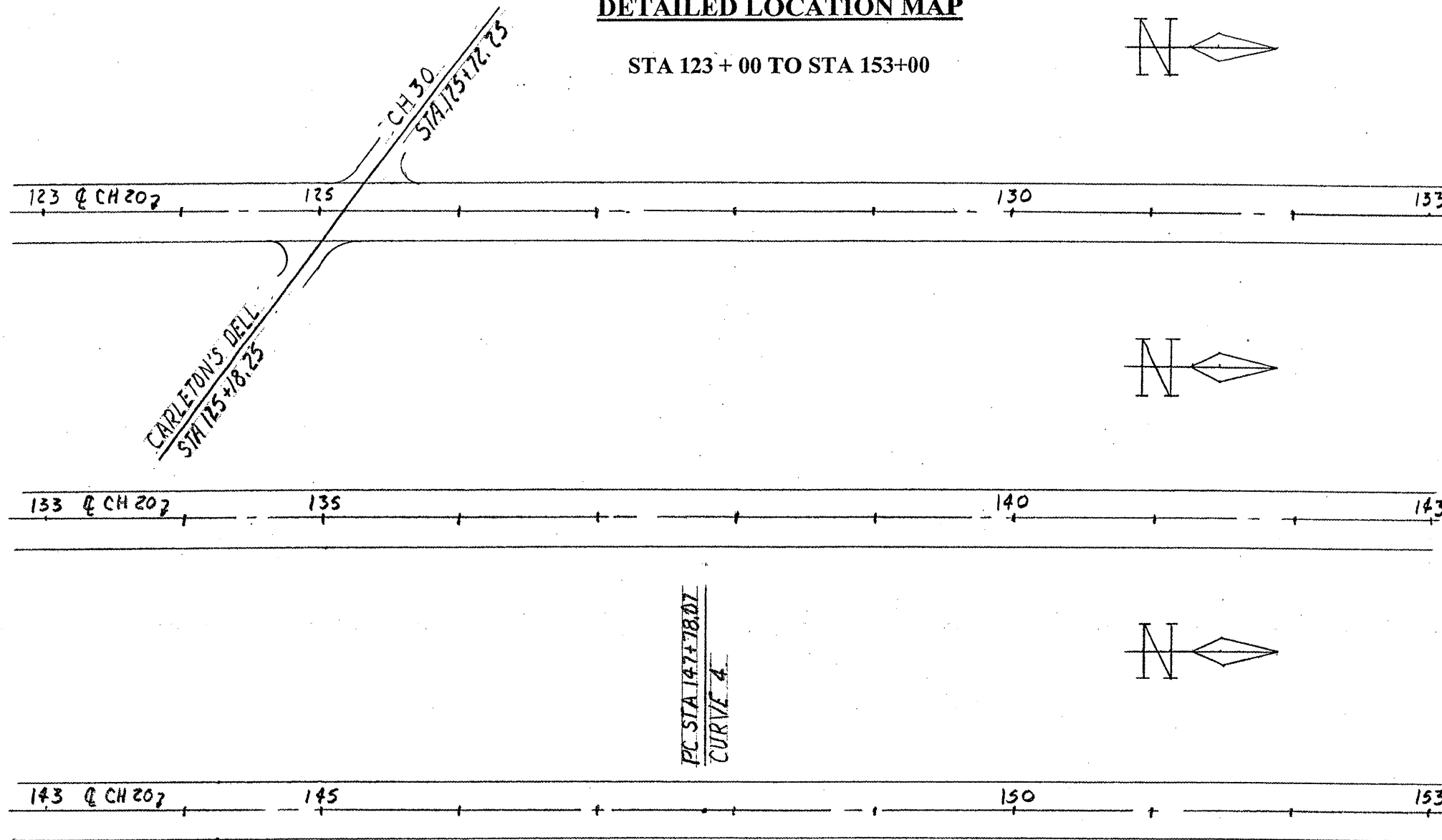
.STA 93+00 TO STA 123+00



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DETAILED LOCATION MAP

STA 123 + 00 TO STA 153+00

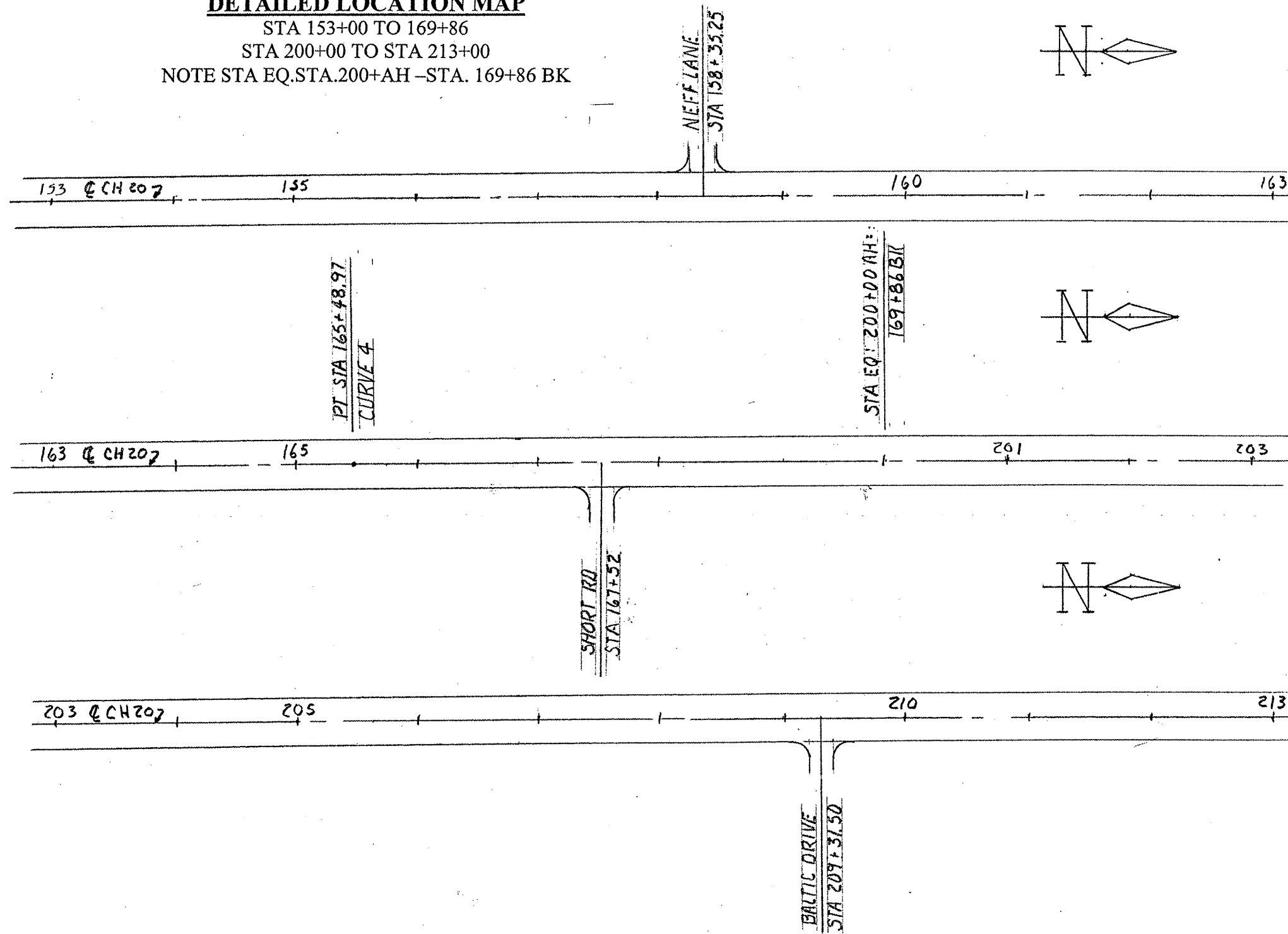


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DETAILED LOCATION MAP
 STA 153+00 TO 169+86
 STA 200+00 TO STA 213+00
 NOTE STA EQ. STA. 200+00 AH - STA. 169+86 BK

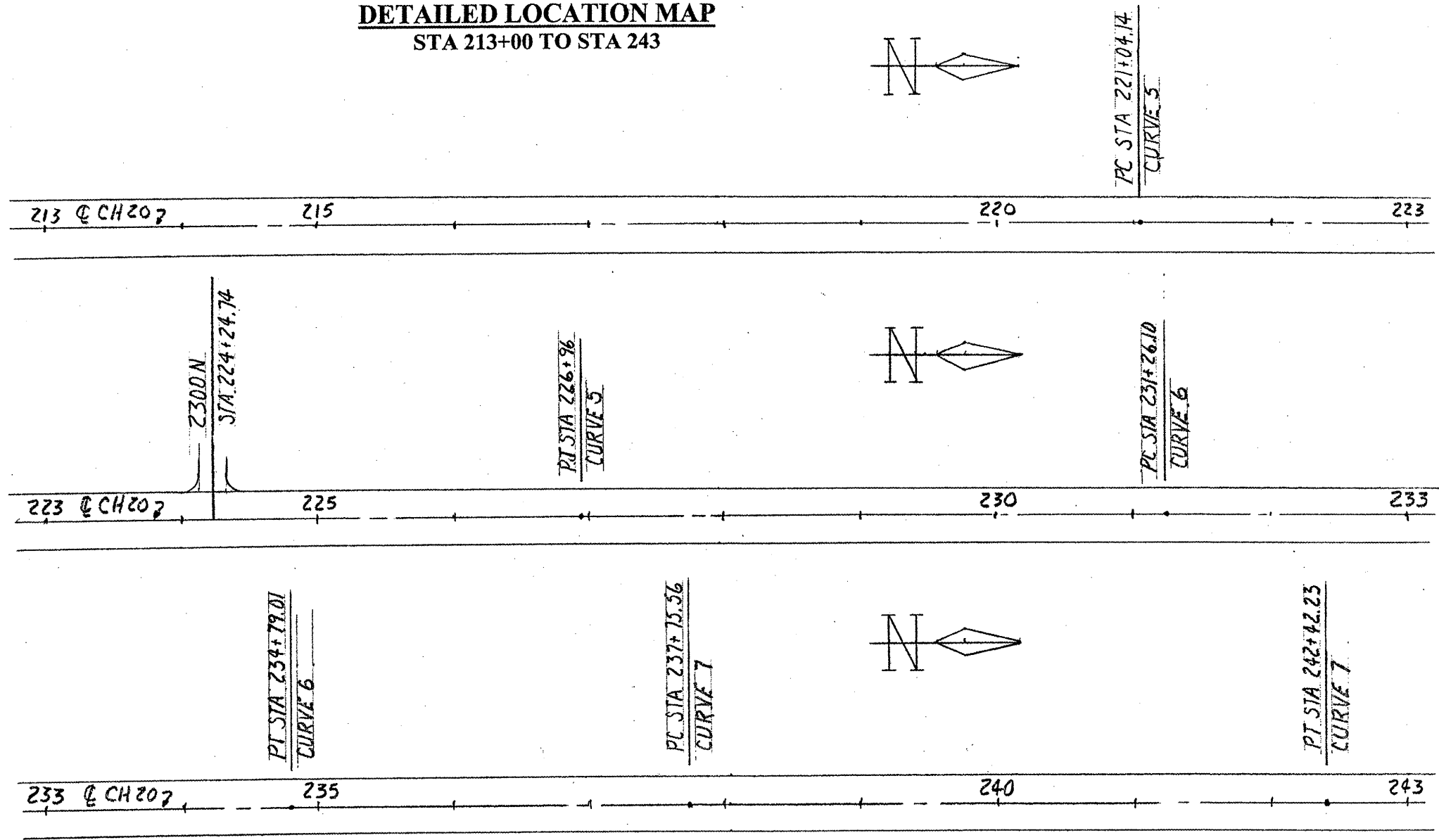


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DETAILED LOCATION MAP
STA 213+00 TO STA 243



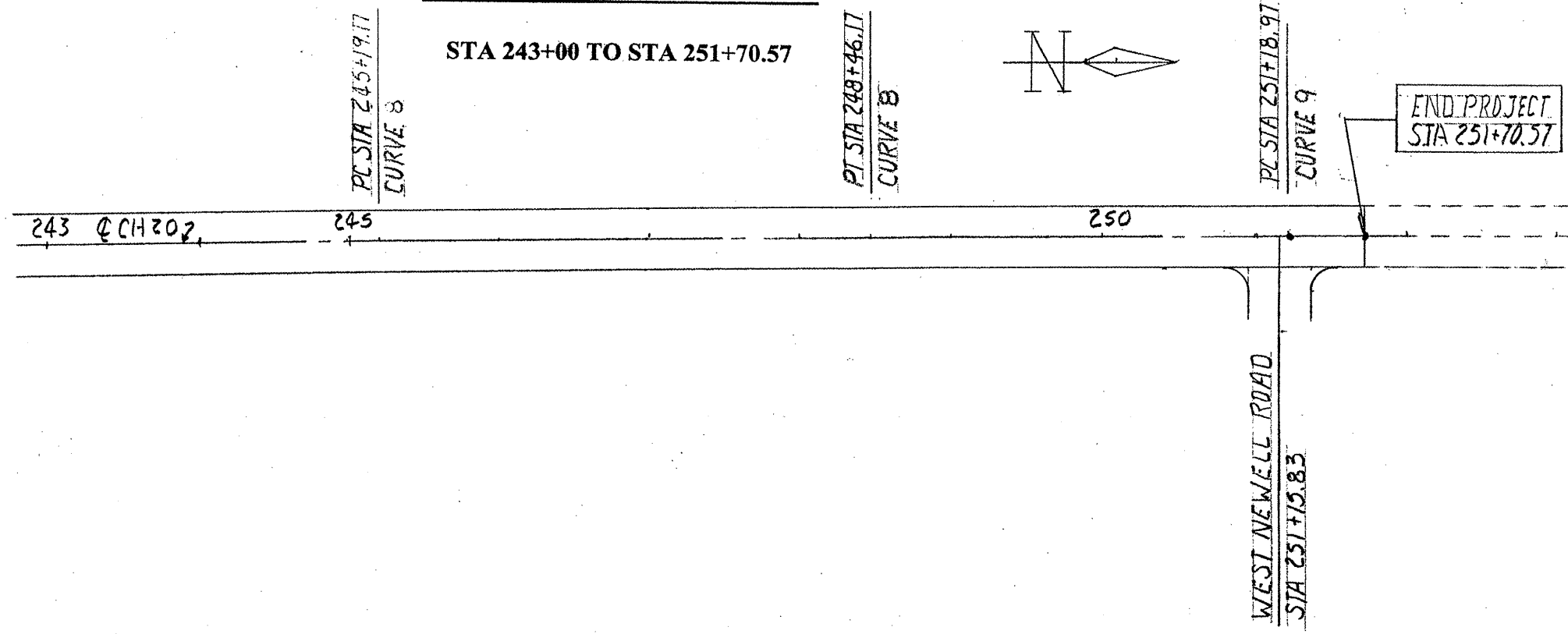
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DETAILED LOCATION MAP

STA 243+00 TO STA 251+70.57



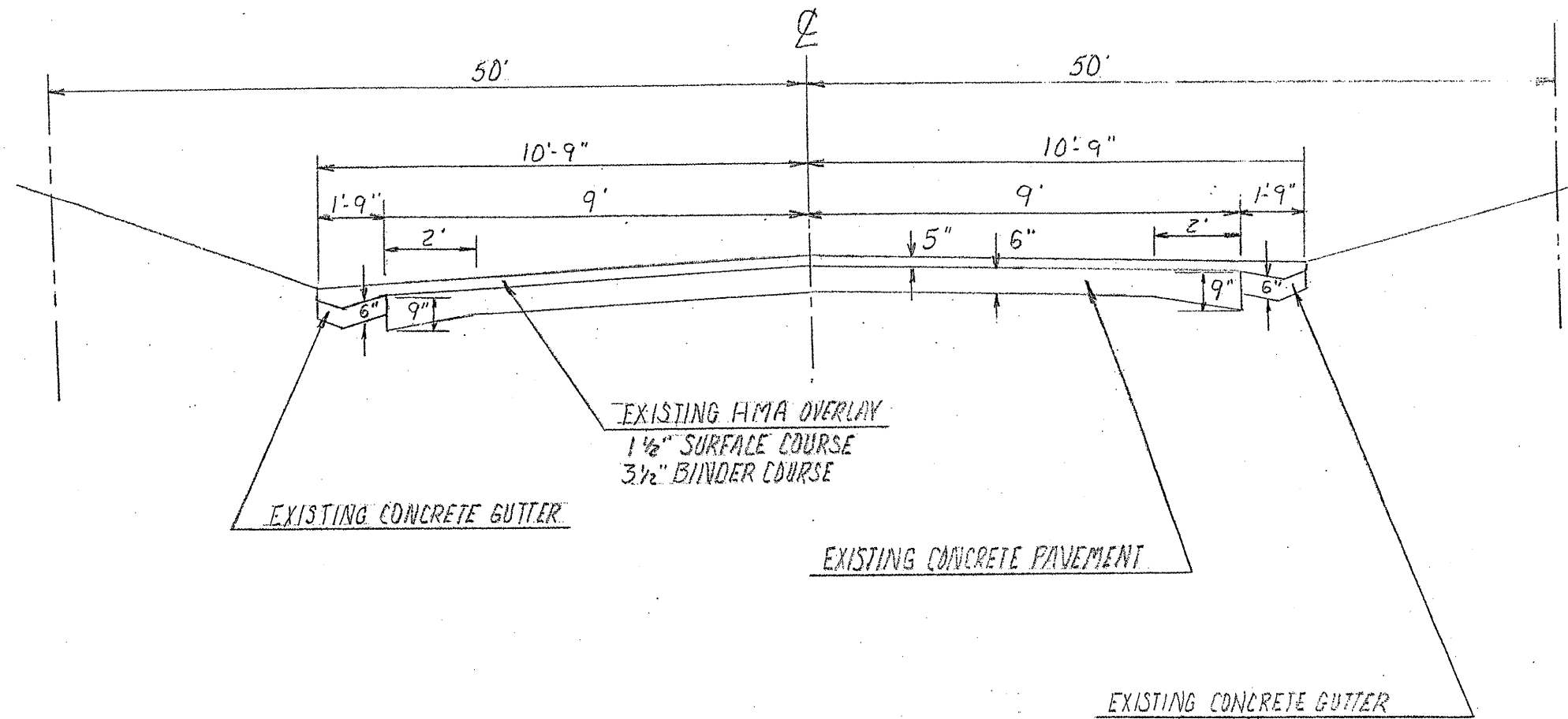
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EXISTING TYPICAL CROSS SECTION

STA 55+25 TO STA 60+40



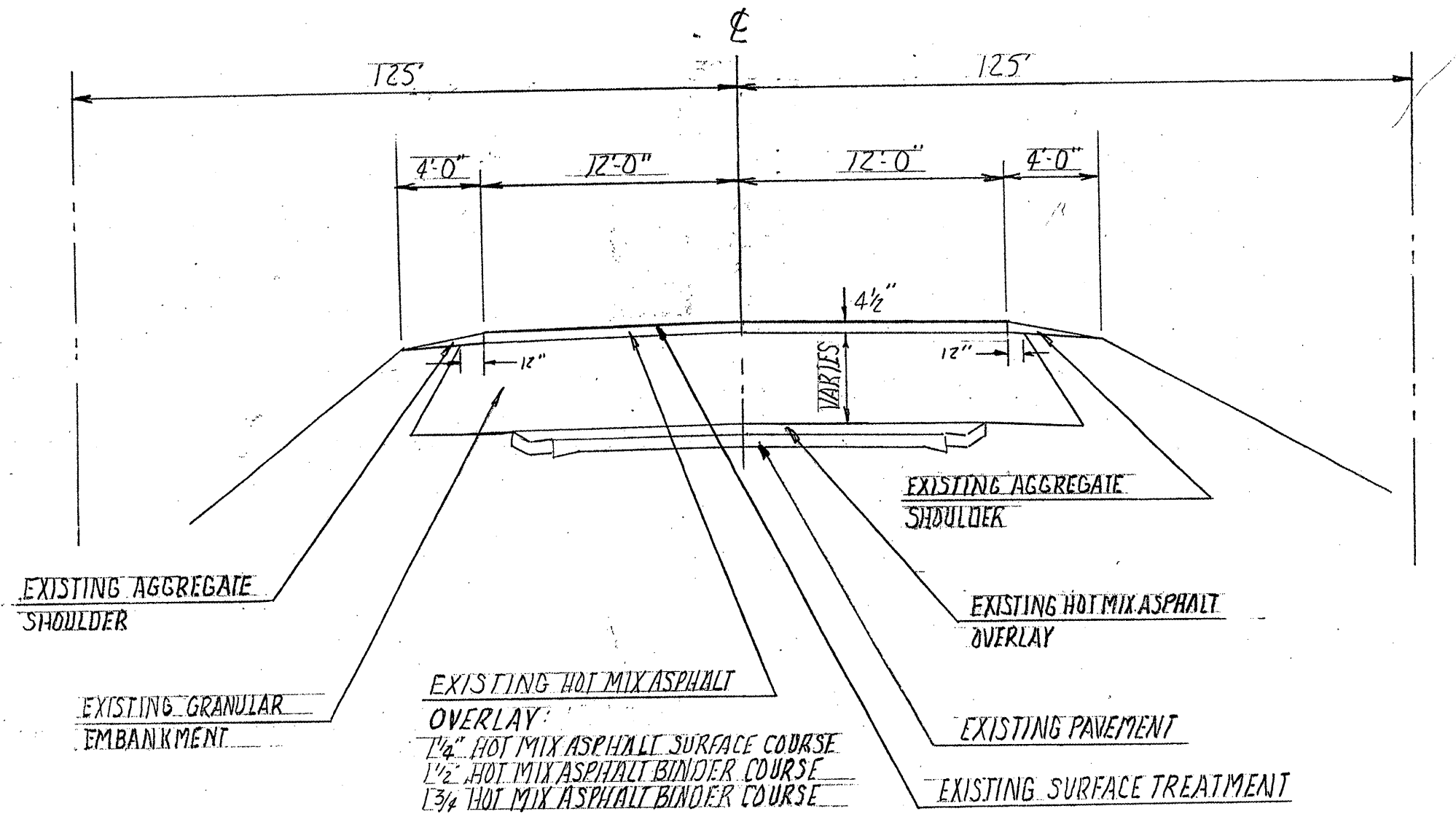
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EXISTING TYPICAL CROSS SECTION

(Station 64+77.25 to Station 65+96)



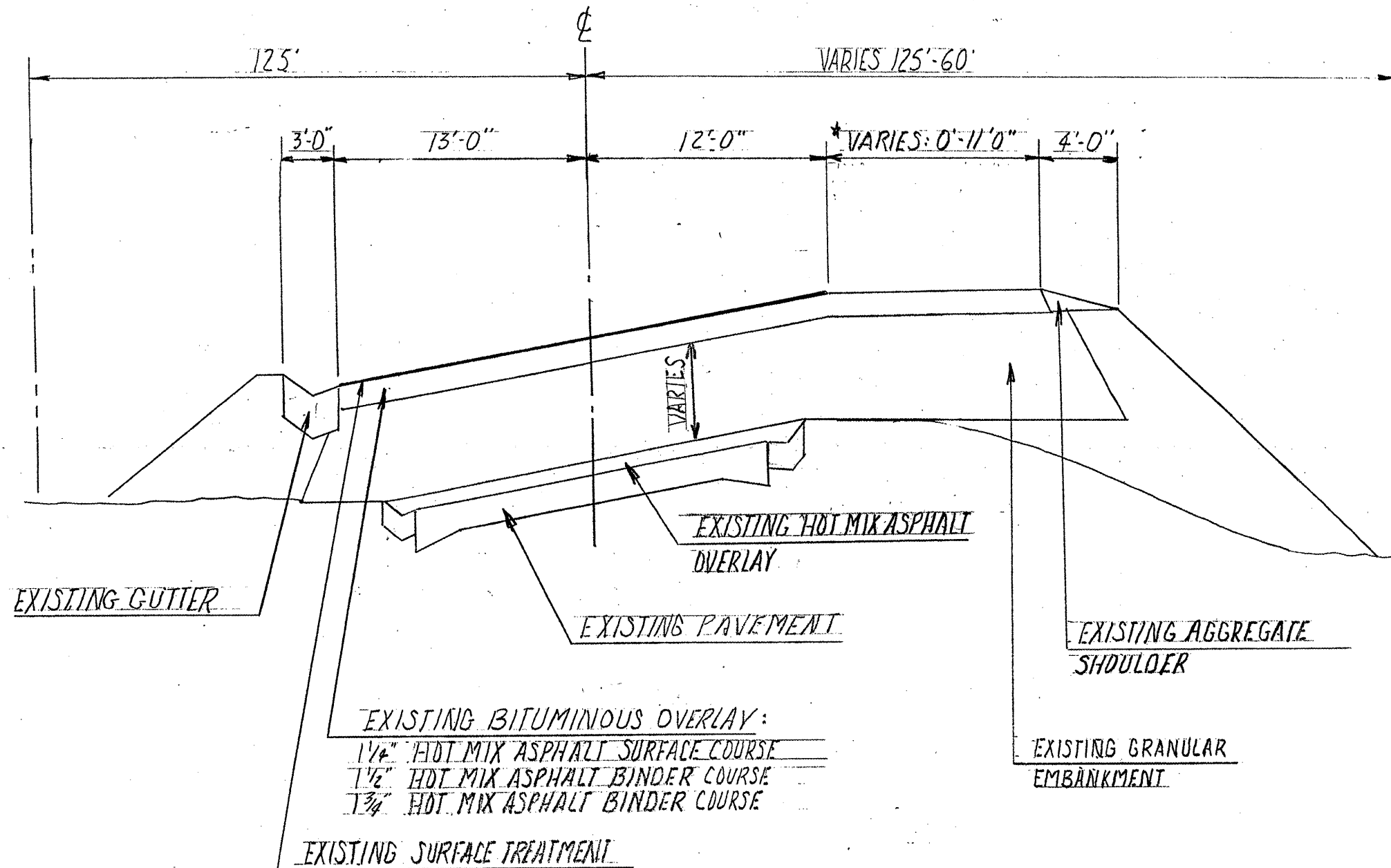
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EXISTING TYPICAL CROSS SECTION

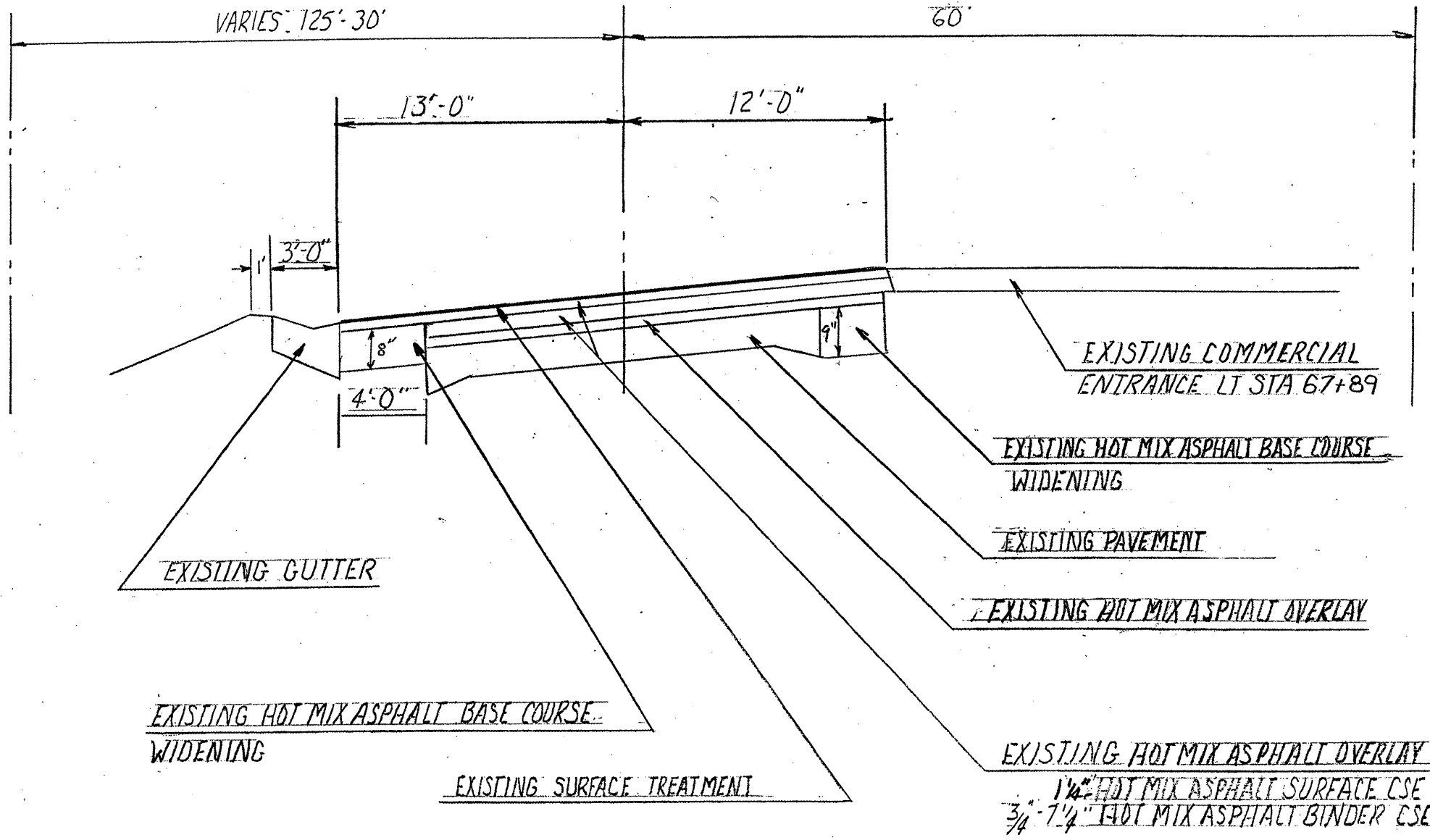
(Station 65+96 to Station 67+55)



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EXISTING TYPICAL CROSS SECTION

(Station 67+55 to Station 68+40)



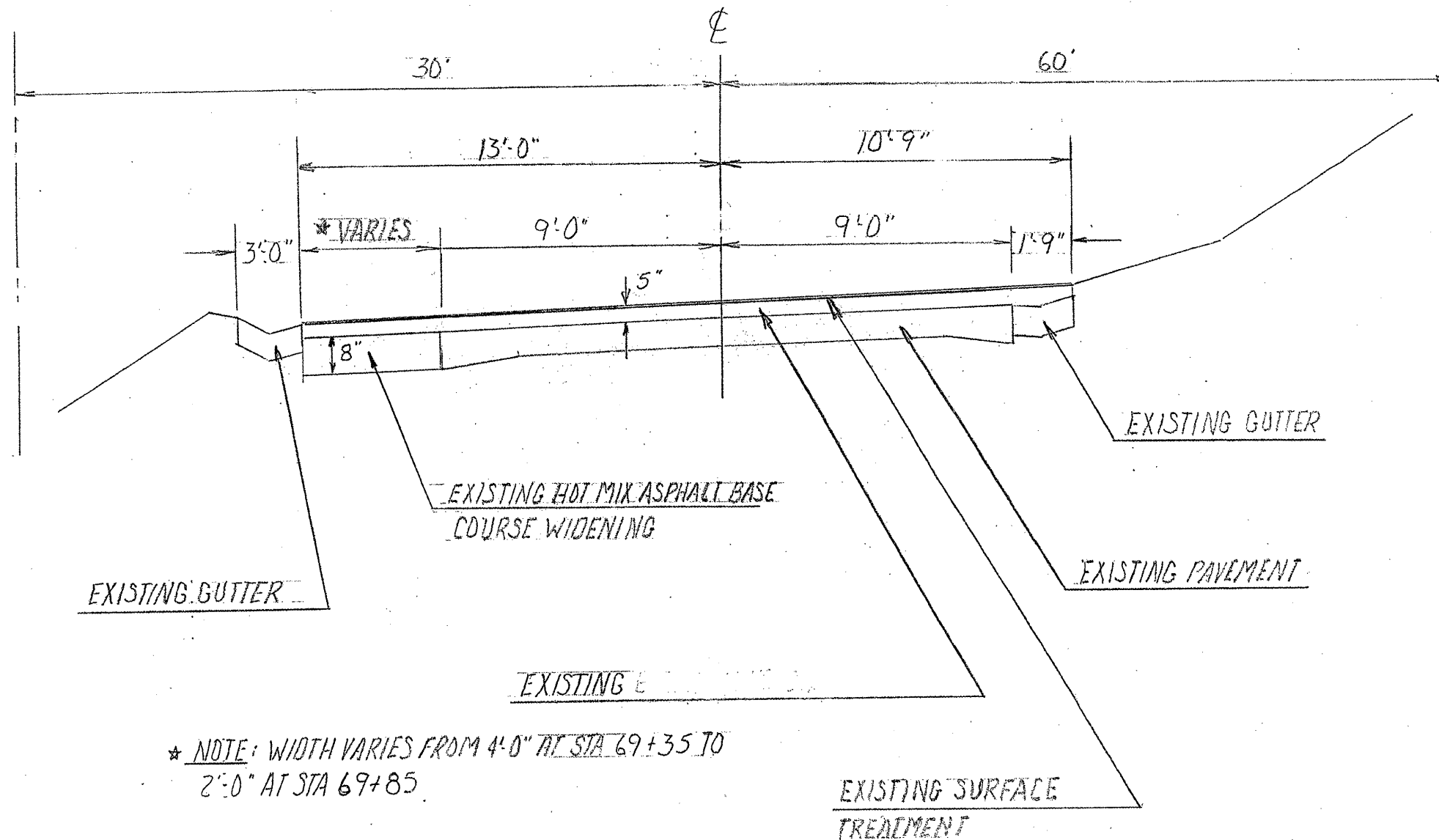
Prepared by:
Vermilion County Highway Dept.
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Oakwood, Illinois 61858

DENMARK RD. (C.H. 20)
2009 RESURFACING
SECTION 07-00160-00-RS

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EXISTING TYPICAL CROSS SECTION

(Station 68+40 to Station 69+85)

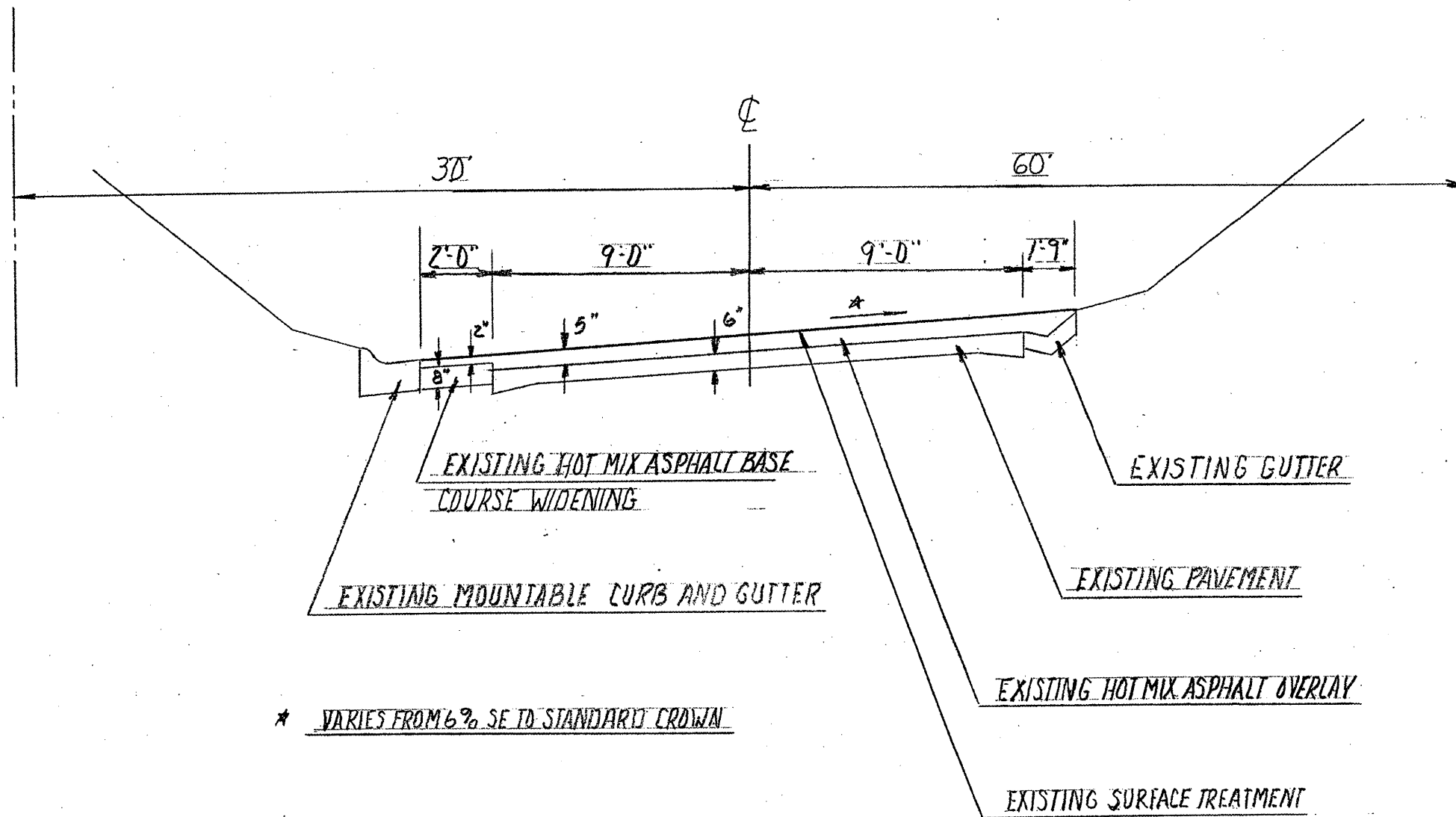


* NOTE: WIDTH VARIES FROM 4'-0" AT STA 69+35 TO 2'-0" AT STA 69+85

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EXISTING TYPICAL CROSS SECTION

(Station 69+85 to Station 74+56.21)



* VARIES FROM 6% SE TO STANDARD CROWN

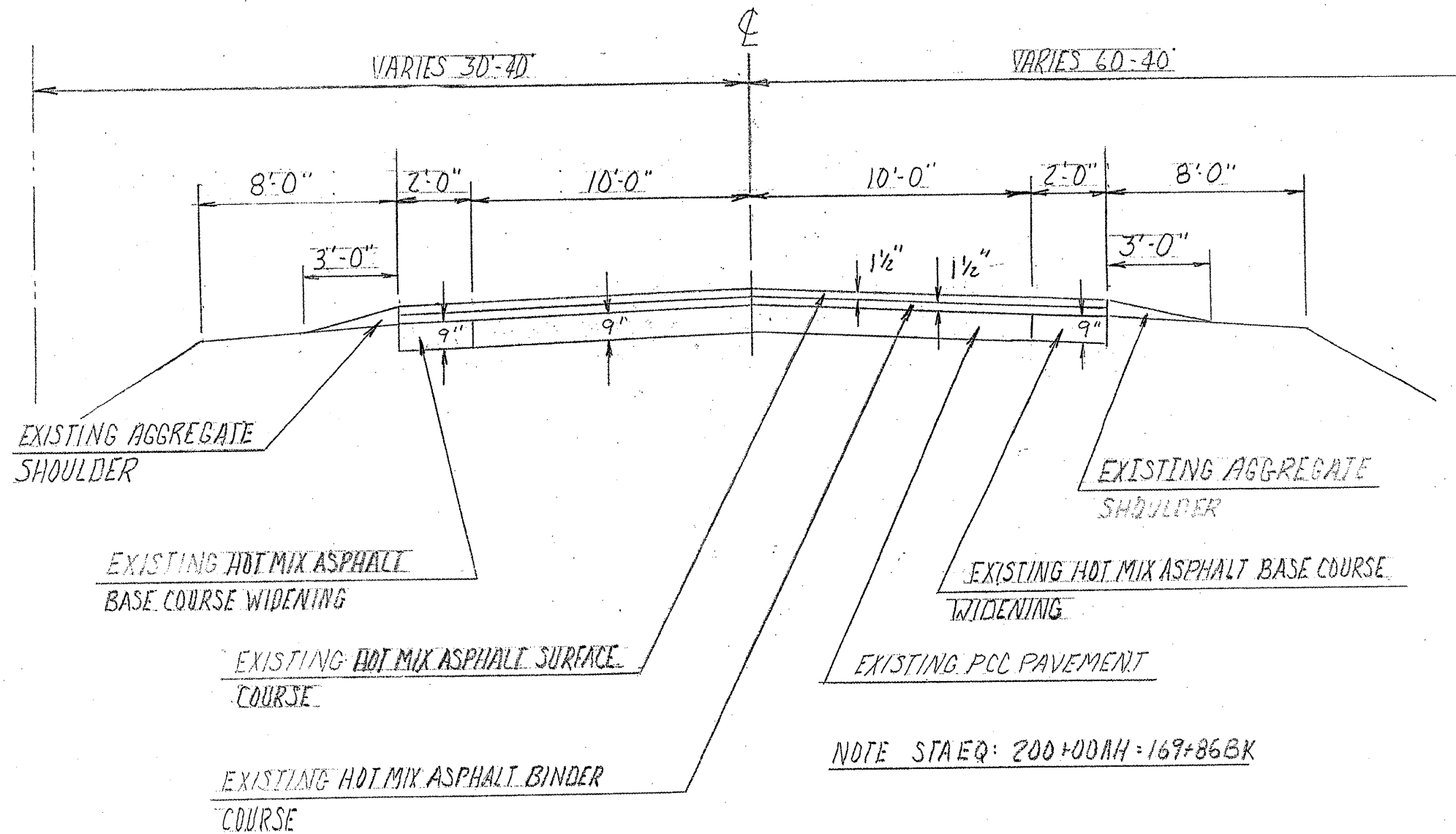
Prepared by:
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 2009 RESURFACING
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**EXISTING TYPICAL CROSS SECTION
STA 74 +56.21 TO STA 169 +86**

NOTE: STA EQ STA 169 + 86BK = STA 200 +00AH

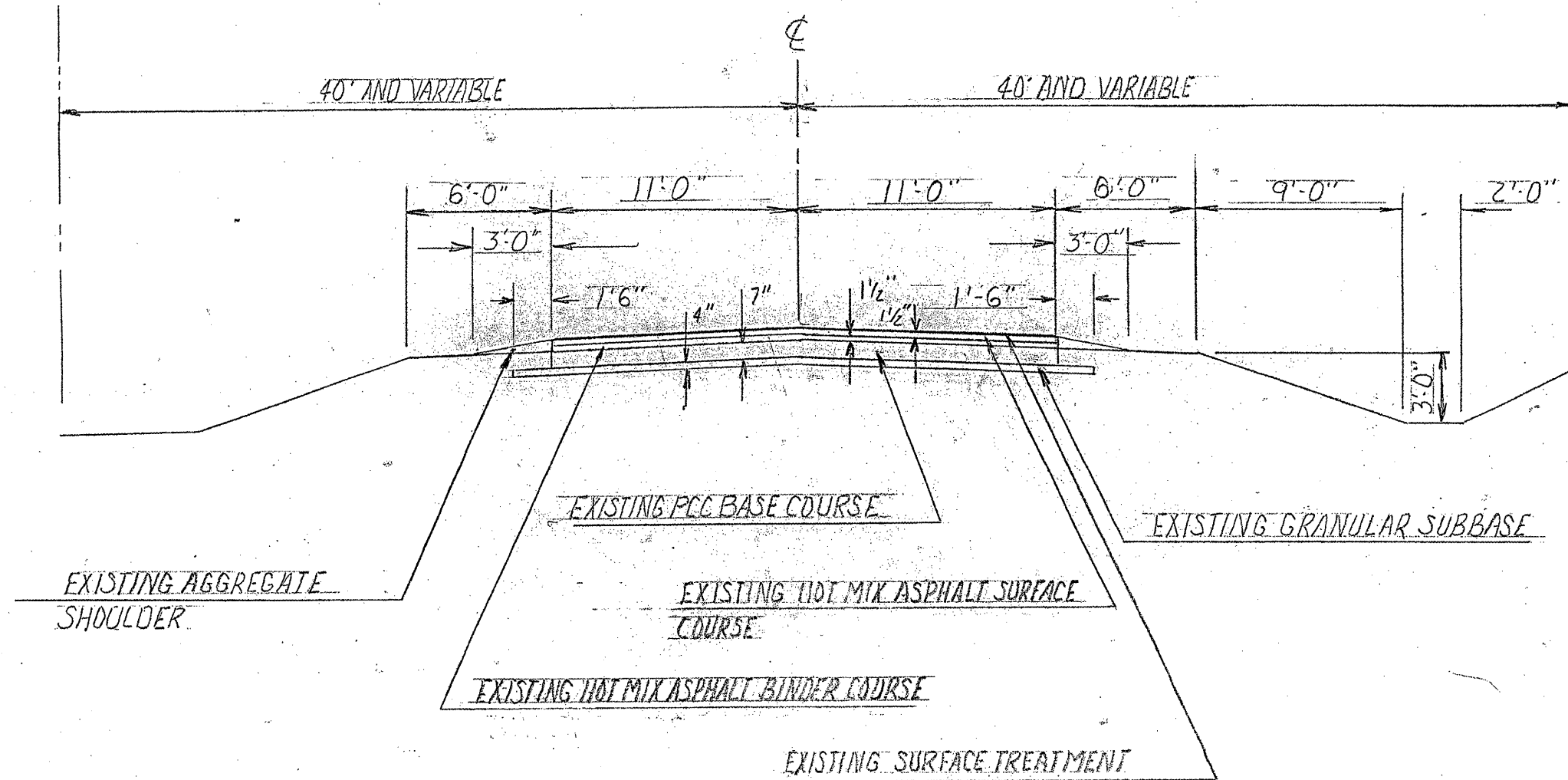


NOTE STA EQ: 200+00AH = 169+86BK

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**EXISTING TYPICAL CROSS SECTION
STA 200+00 TO STA 251 +70.57**

NOTE: STA EQ STA 169 + 86BK = STA 200 +00AH



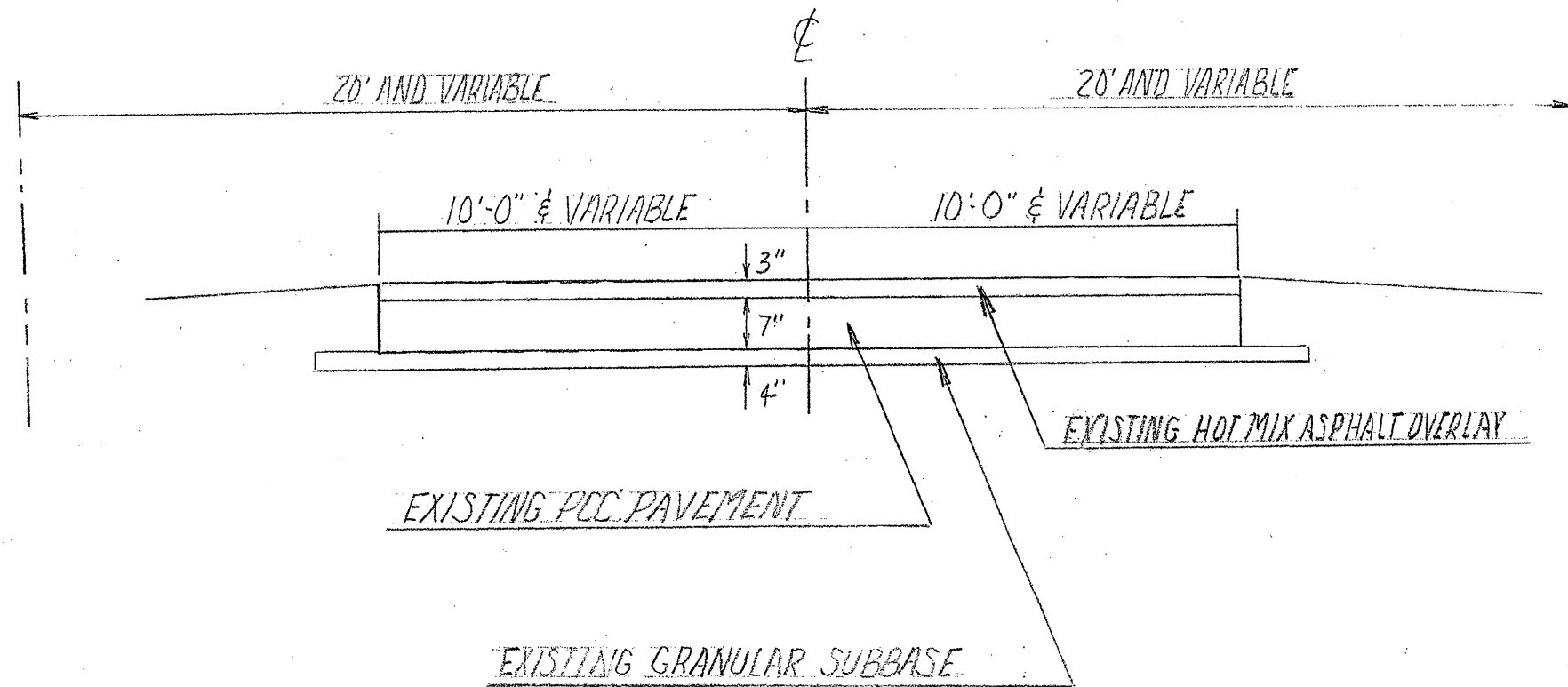
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**EXISTING TYPICAL CROSS SECTION
SIDEROAD 2300N**

STA 0 + 11 TO STA 0 + 69

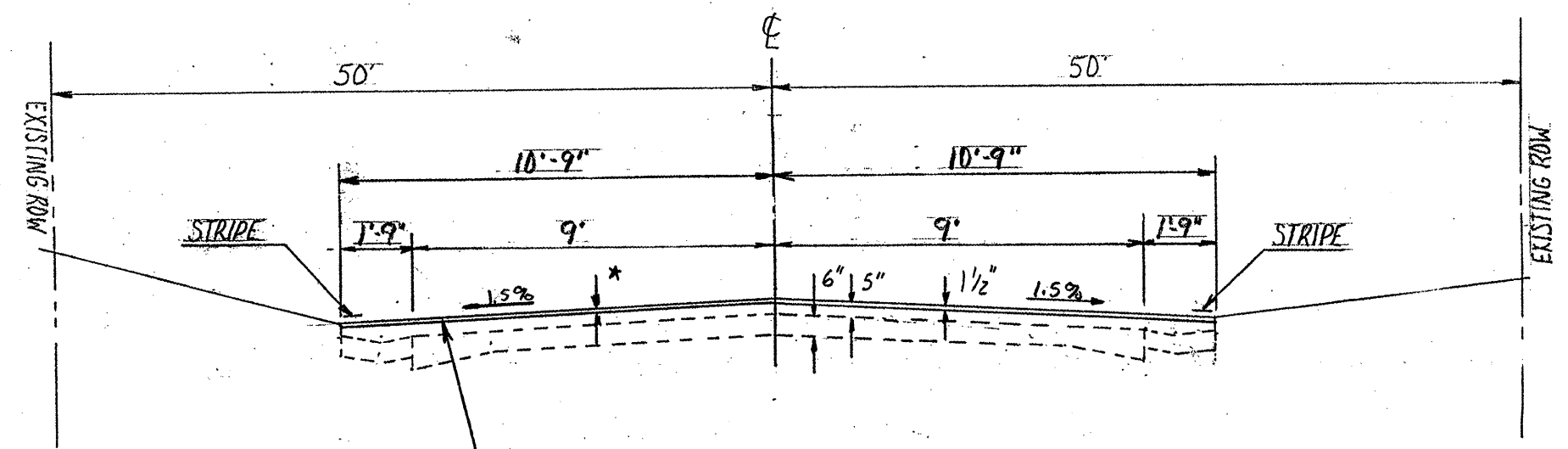


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PROPOSED TYPICAL CROSS-SECTION
LT. STA. 55+25 TO LT. STA. 57+00
RT. STA. 55+25 TO RT. STA. 56+25

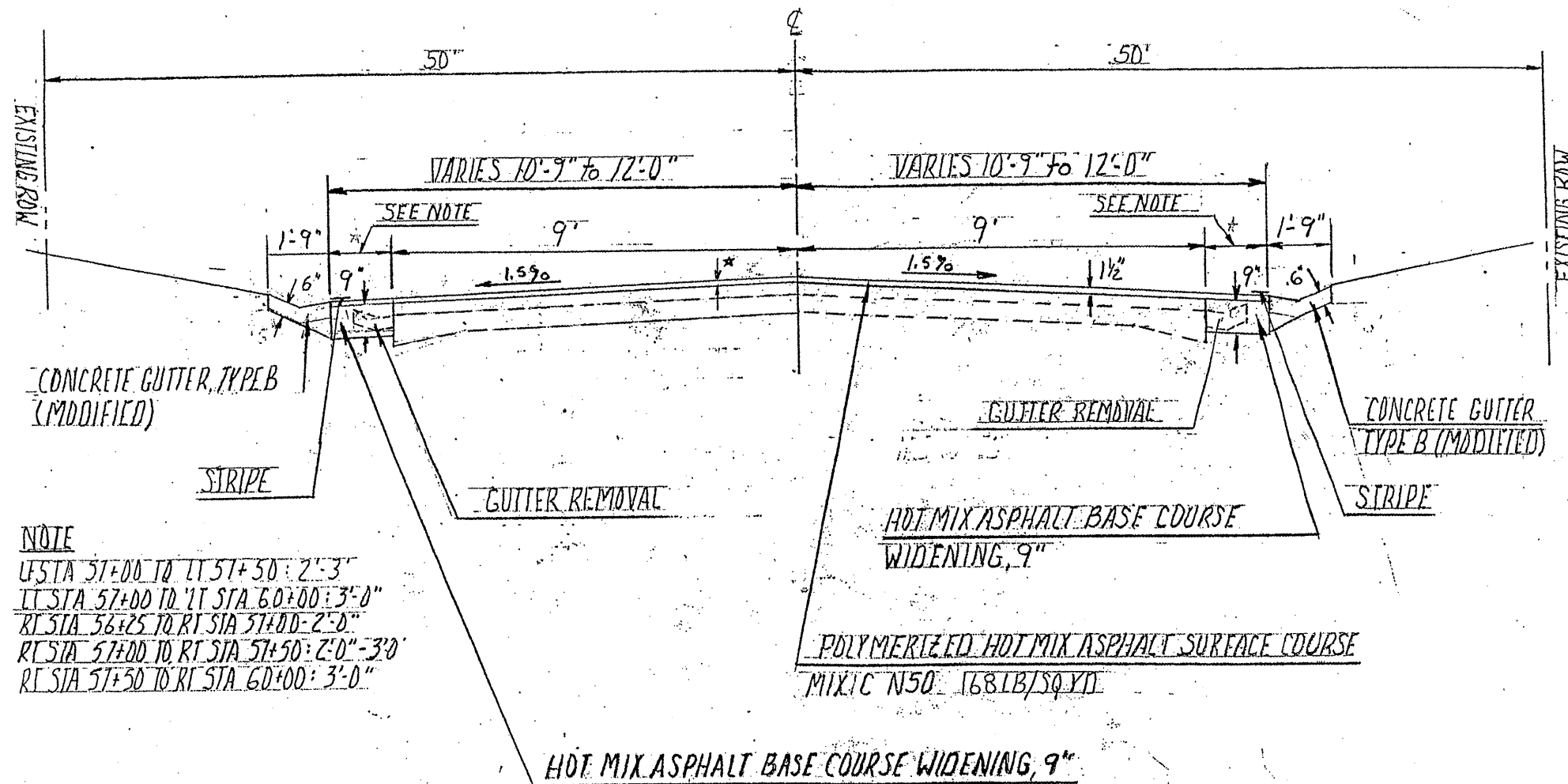


POLYMERIZED HOT MIX ASPHALT SURFACE
COURSE, MIX C, NSD 168 LB/SQYD

* HOT MIX ASPHALT SURFACE REMOVAL, 1/2"

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PROPOSED TYPICAL CROSS-SECTION
LT. STA. 57+00 to LT. STA. 60+00
RT. STA. 56+25 to RT. STA. 60+00

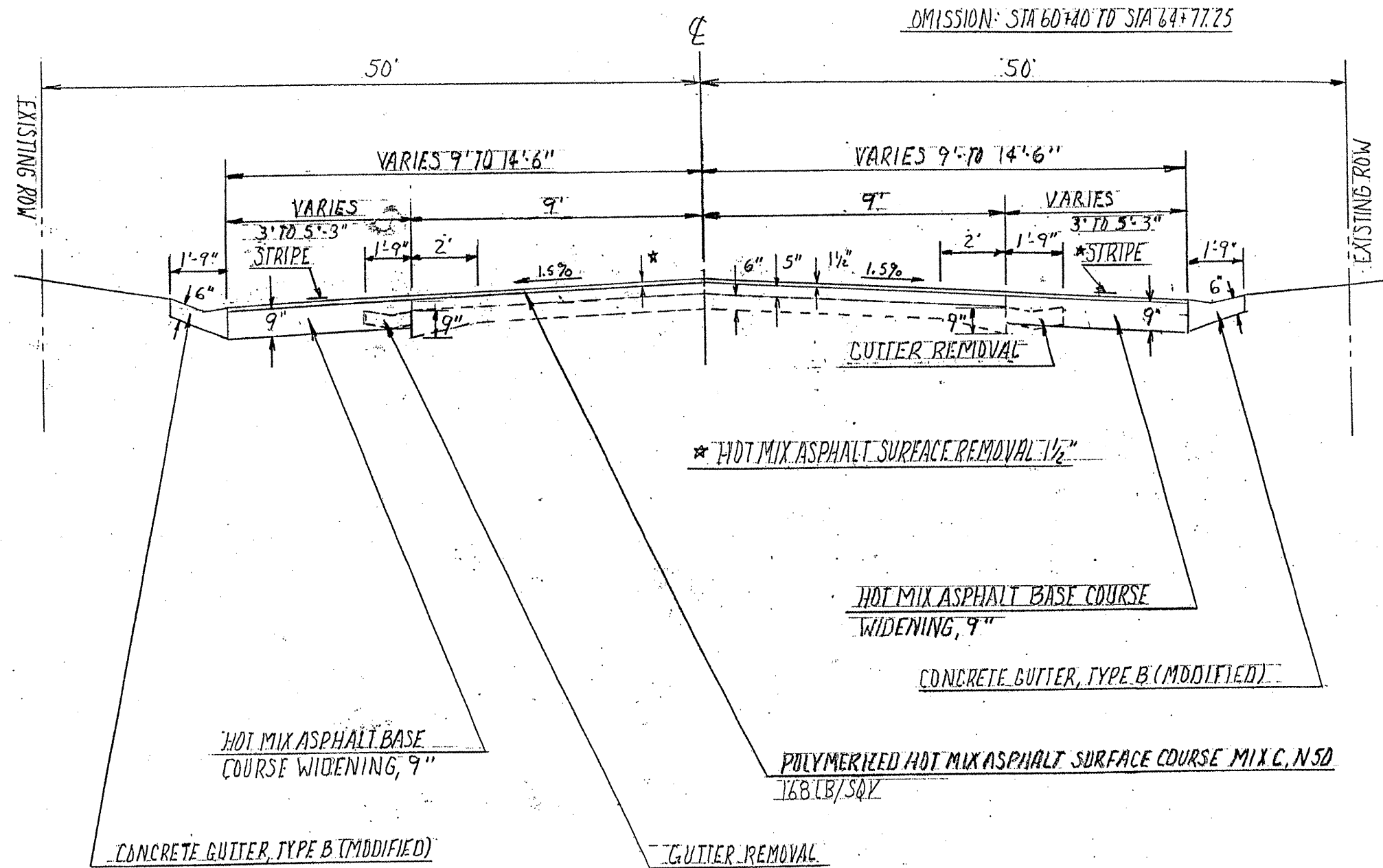


NOTE
 LT STA 57+00 TO LT STA 57+50: 2'-3"
 LT STA 57+00 TO LT STA 60+00: 3'-0"
 RT STA 56+25 TO RT STA 57+00: 2'-0"
 RT STA 57+00 TO RT STA 57+50: 2'-0"-3'
 RT STA 57+50 TO RT STA 60+00: 3'-0"

* HOT MIX ASPHALT SURFACE REMOVAL, 1/2"

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**PROPOSED TYPICAL CROSS-SECTION
STA. 60+00 TO 60+40**



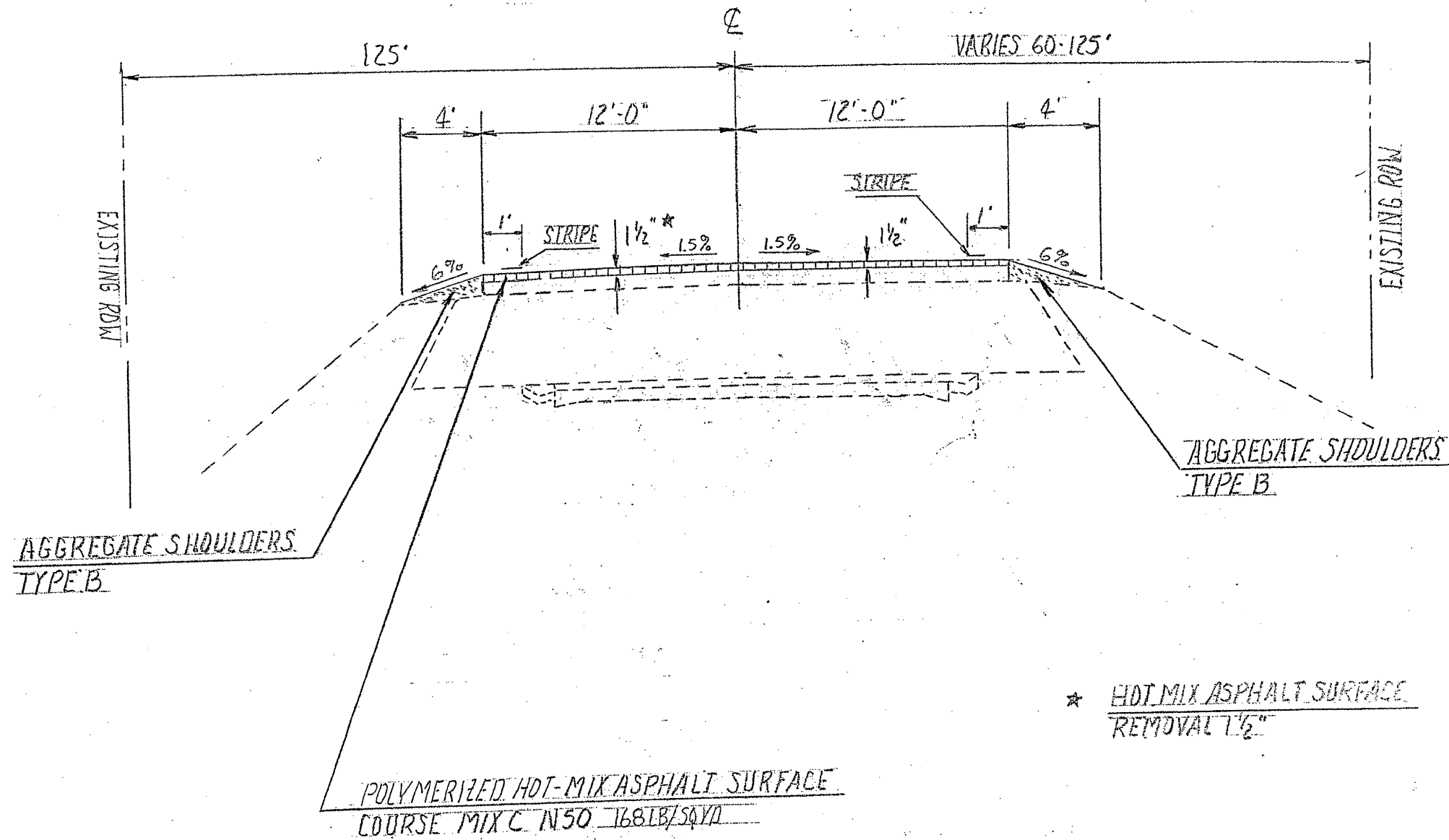
OMISSION: STA 60+40 TO STA 64+77.25

NOTE: PLACE STRIPE 10'-9" LF AND 10'-9" RT AT STA 60+40

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PROPOSED TYPICAL CROSS SECTION

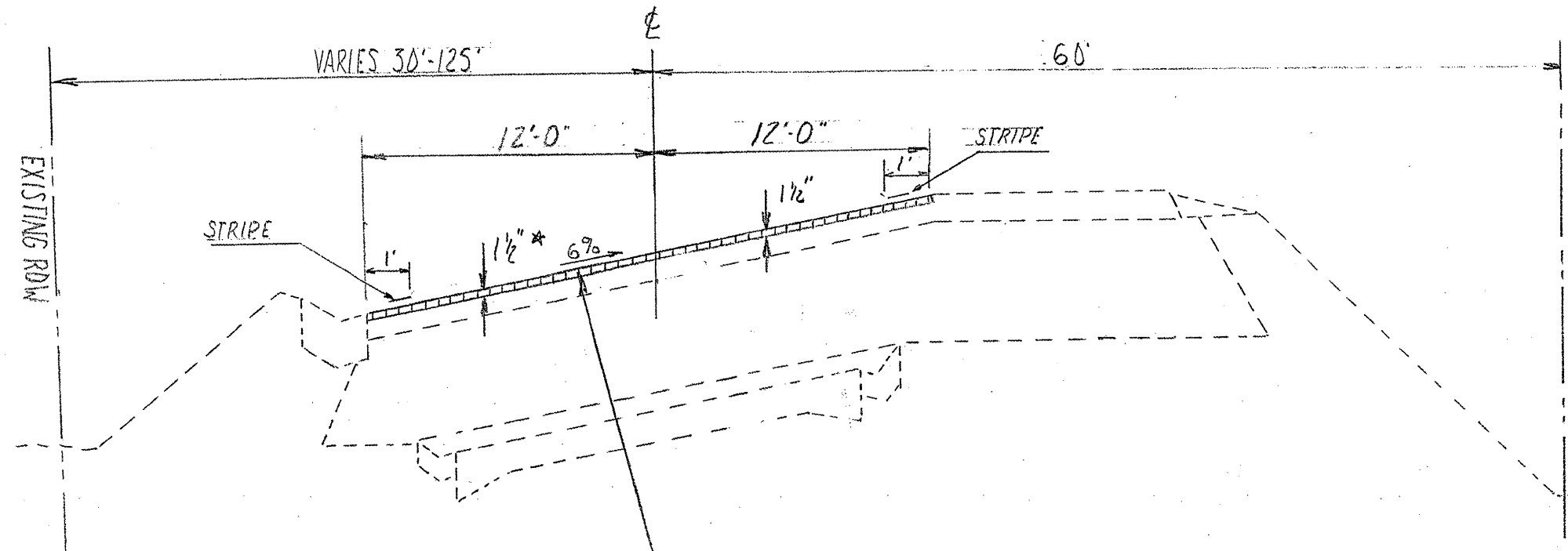
(Station 64+77.25 to Station 65+96)



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PROPOSED TYPICAL CROSS SECTION

(Station 65+96 to Station 67+55)



* HOT-MIX ASPHALT SURFACE REMOVAL 1 1/2"

POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE MIX C N 50
168LB/SQYD

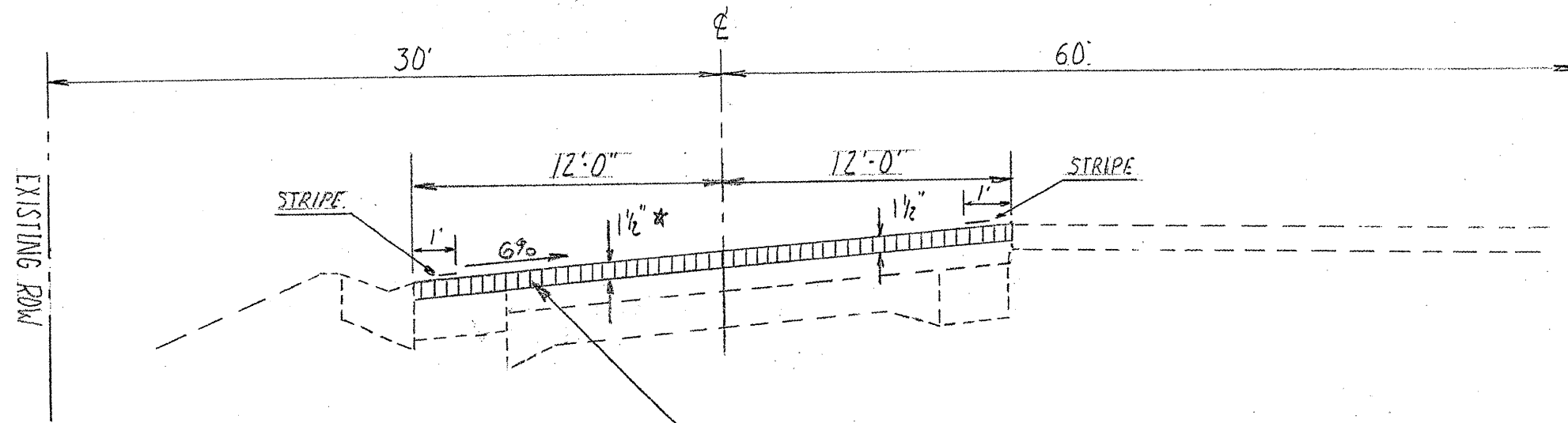
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PROPOSED TYPICAL CROSS SECTION

(Station 67+55 to Station 68+40)



POLYMERIZED HOT-MIX ASPHALT SURFACE
COURSE MIX C N 50 168 LB/SQYD

* HOT-MIX ASPHALT SURFACE REMOVAL 1/2"

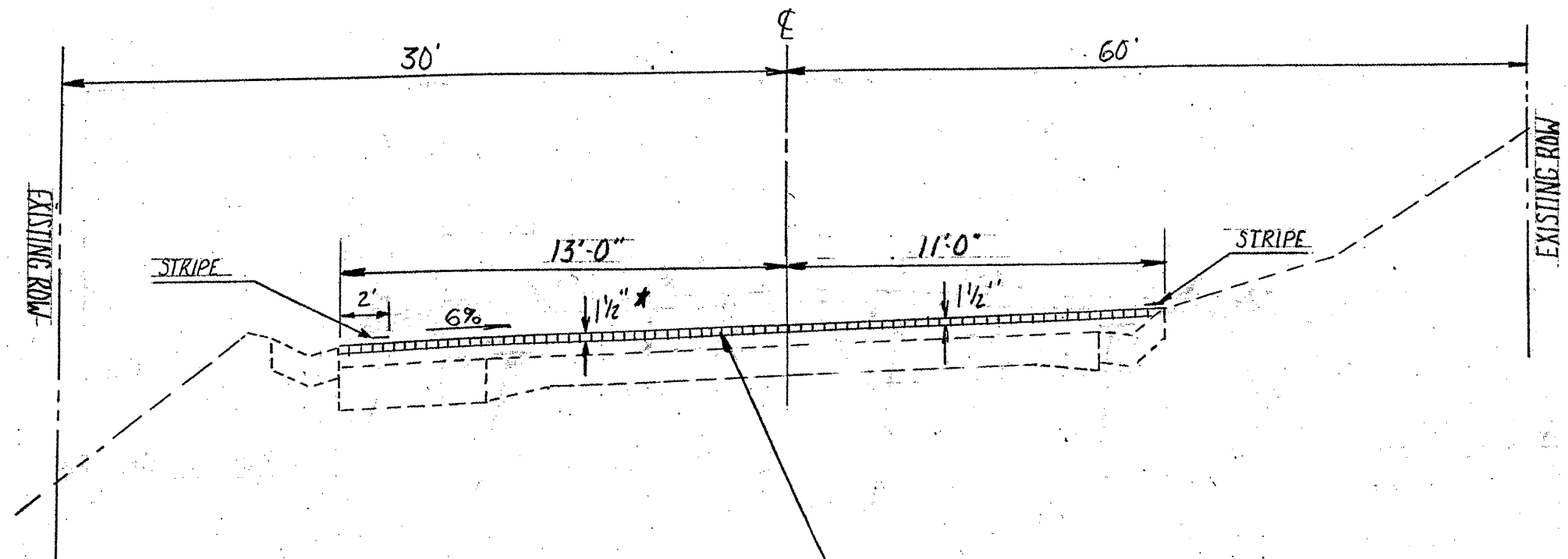
Prepared by:
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PROPOSED TYPICAL CROSS SECTION

(Station 68+40 to Station 69+85)



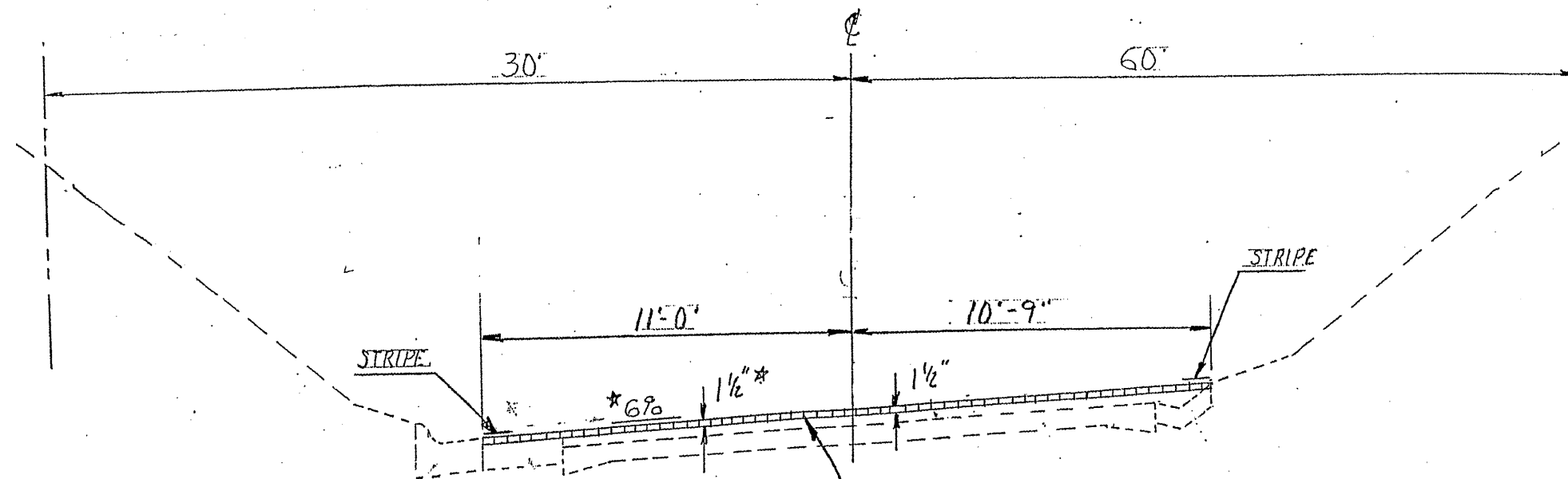
POLYMERIZED HOT MIX ASPHALT SURFACE COURSE MIX C N50

* HOT MIX ASPHALT SURFACE
REMOVAL 1 1/2"

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PROPOSED TYPICAL CROSS SECTION

STA 69+85 TO STA 75+56.21



POLYMERIZED HOT MIX ASPHALT SURFACE COURSE MIX C N50
168 LB/SQ YD

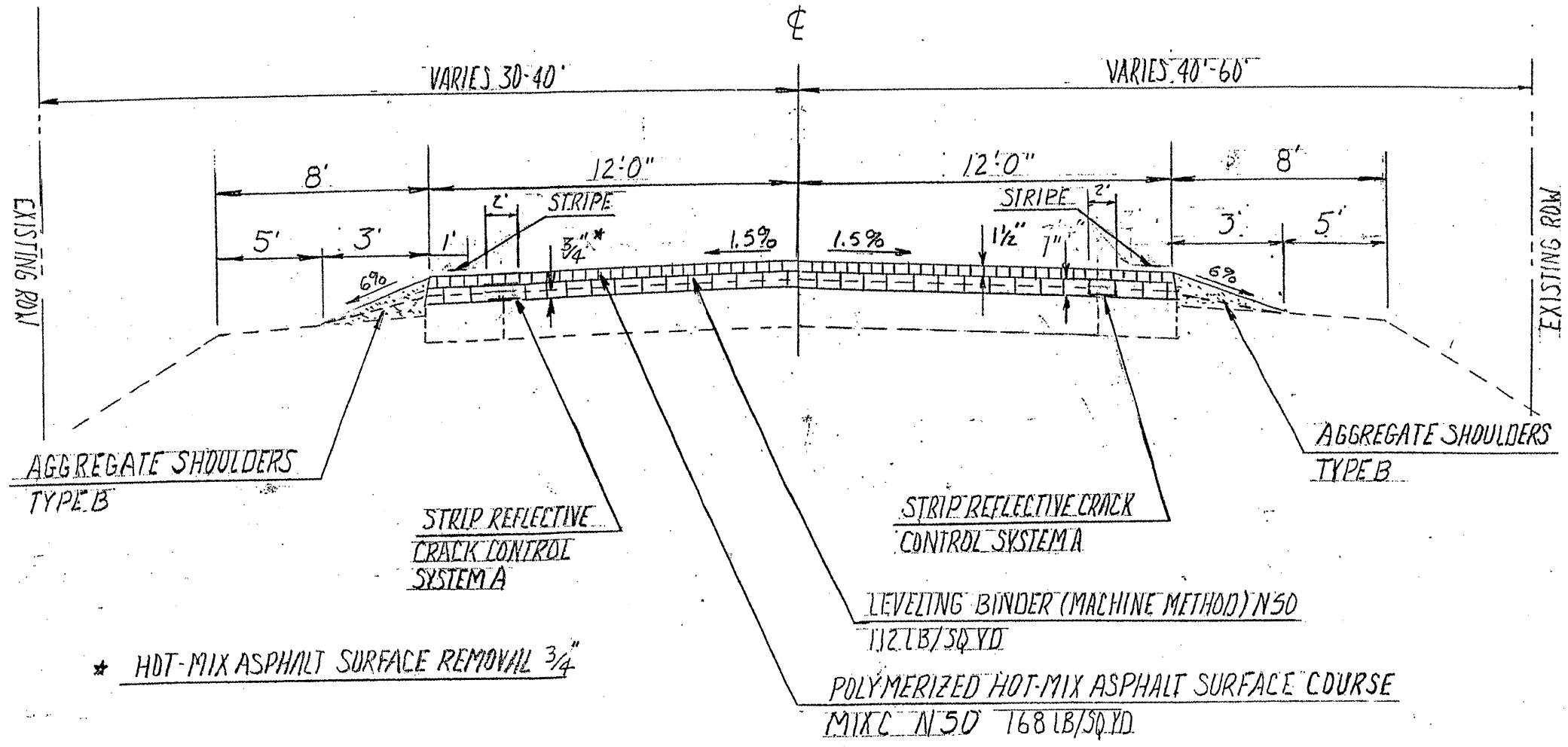
* HOT-MIX ASPHALT SURFACE REMOVAL 1 1/2"

NOTE: TRANSITION HMA SURFACE REMOVAL FROM 1 1/2"
TO 1" STA 75+62.25 TO STA 76+17.75

** VARIES FROM 6% SUPERELEVATION TO NORMAL CROWN.
WITH 1.5% CROSS SLOPE

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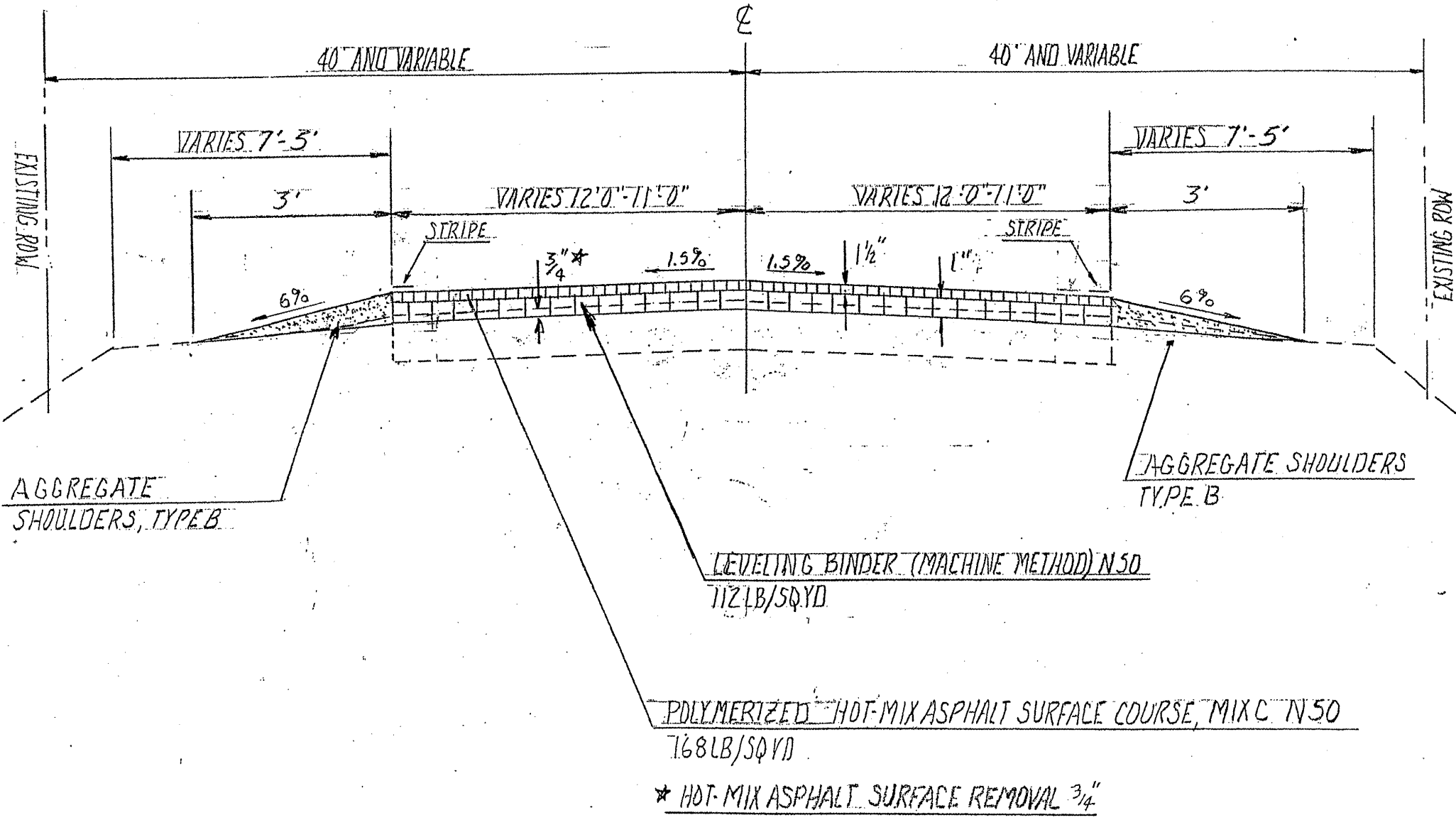
PROPOSED TYPICAL CROSS SECTION
STA. 75+62.25 TO STA. 169+86



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**PROPOSED TYPICAL CROSS SECTION
STA 200 + 00 TO STA 202 + 00**

NOTE: STA EQ STA 169 +86BK = STA 200 + 00AH



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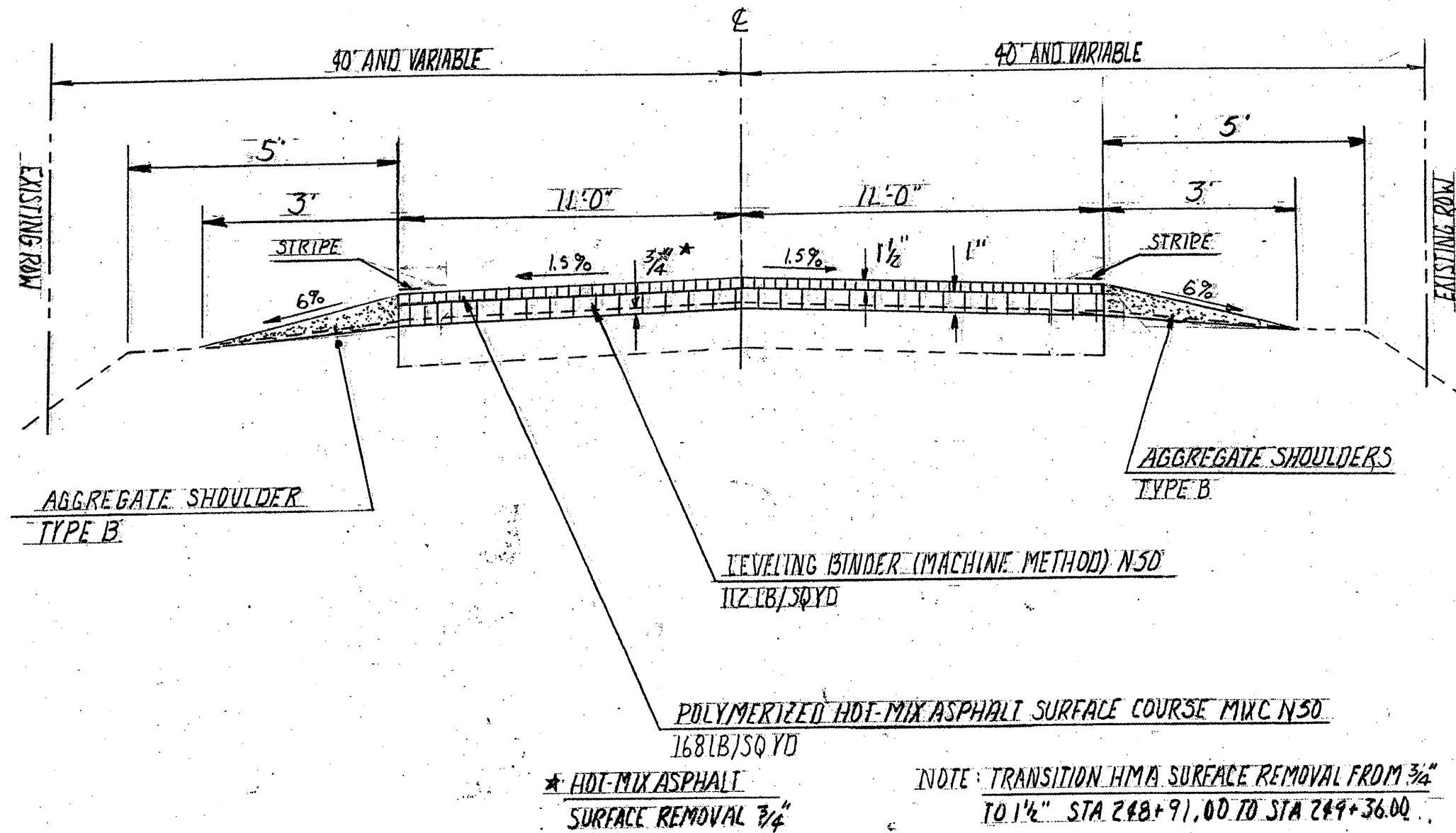
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PROPOSED TYPICAL CROSS SECTION

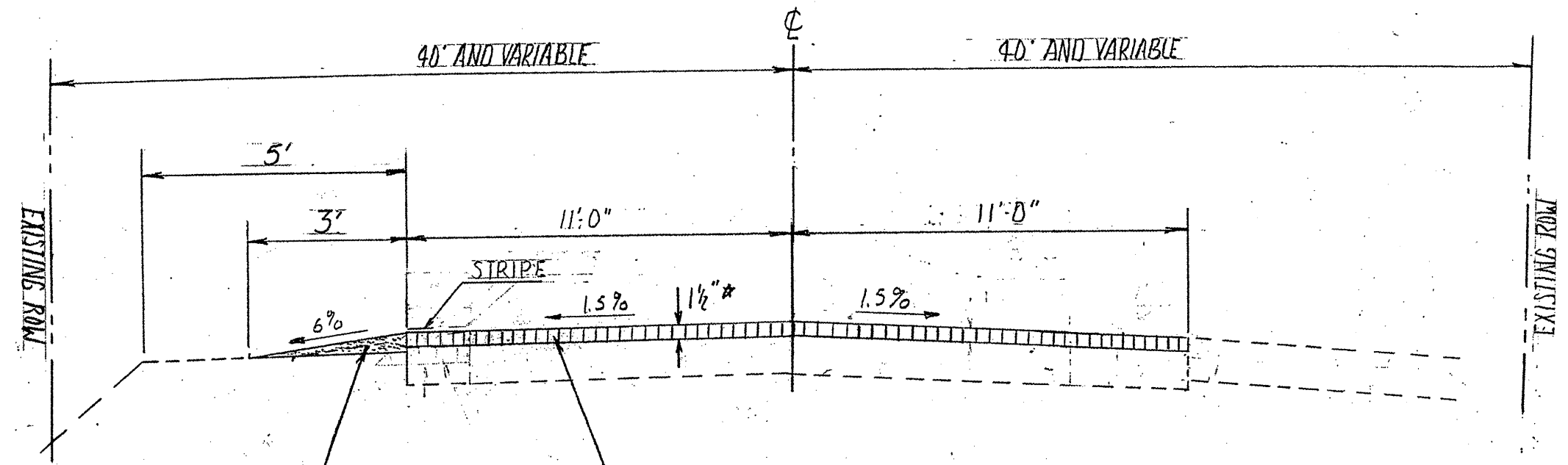
STA 202+00 TO 249+36



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PROPOSED TYPICAL CROSS SECTION

STA 249+36.00 TO STA 251+70.57



AGGREGATE SHOULDERS
TYPE B

★ HOT-MIX ASPHALT SURFACE REMOVAL 1 1/2"

POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE MIX C
N 50 1681B/SQYD

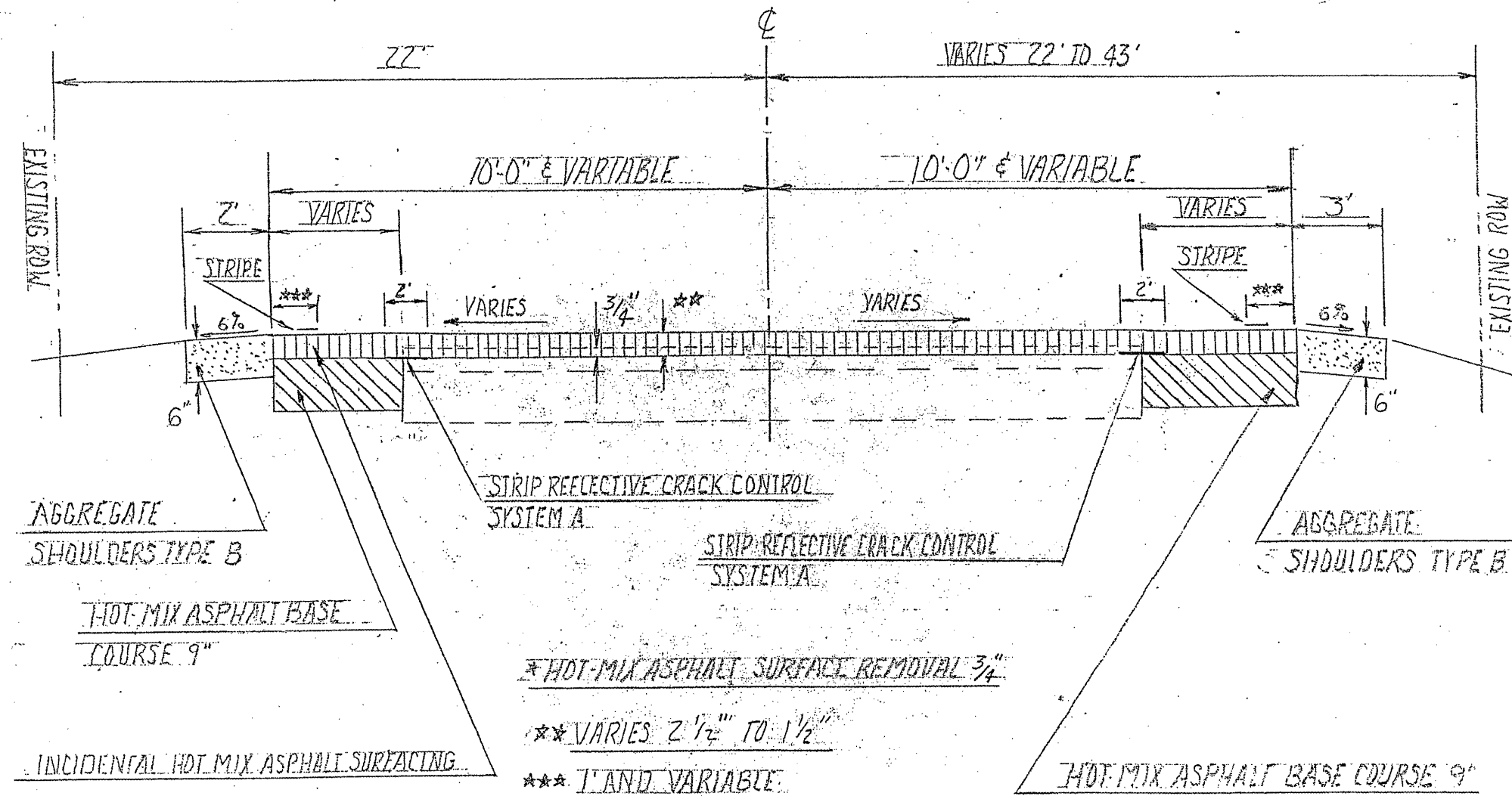
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PROPOSED TYPICAL CROSS SECTION
SIDEROAD 2300N

STA 0 + 11 TO STA 0 + 69



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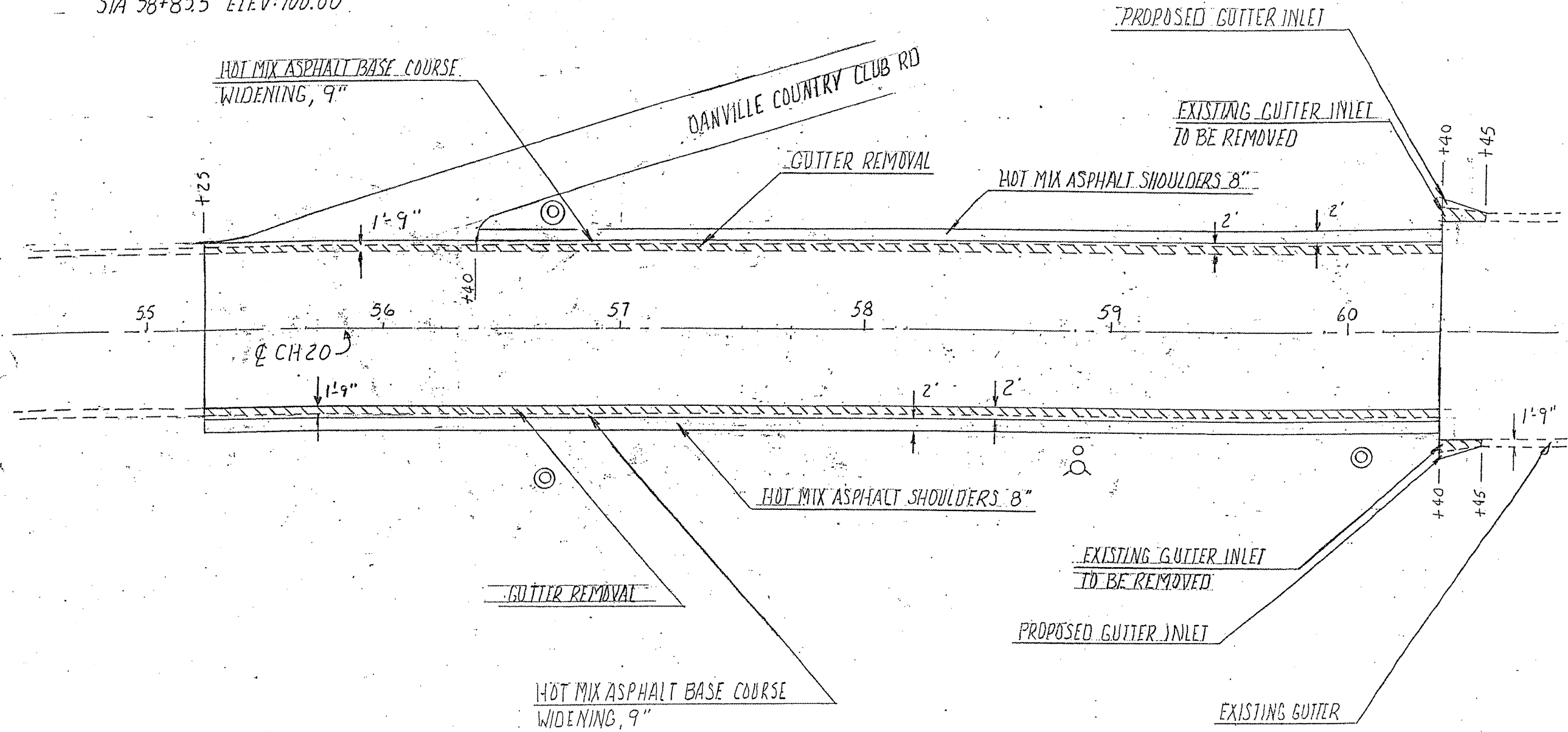
DENMARK RD. (C.H. 20)
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DETAILS

STA. 55+25 TO STA. 60+40

BM: TOP OF SE BOLT ON FIRE
 HYDRANT LOCATED 24' RT
 STA 58+85.5 ELEV: 100.00



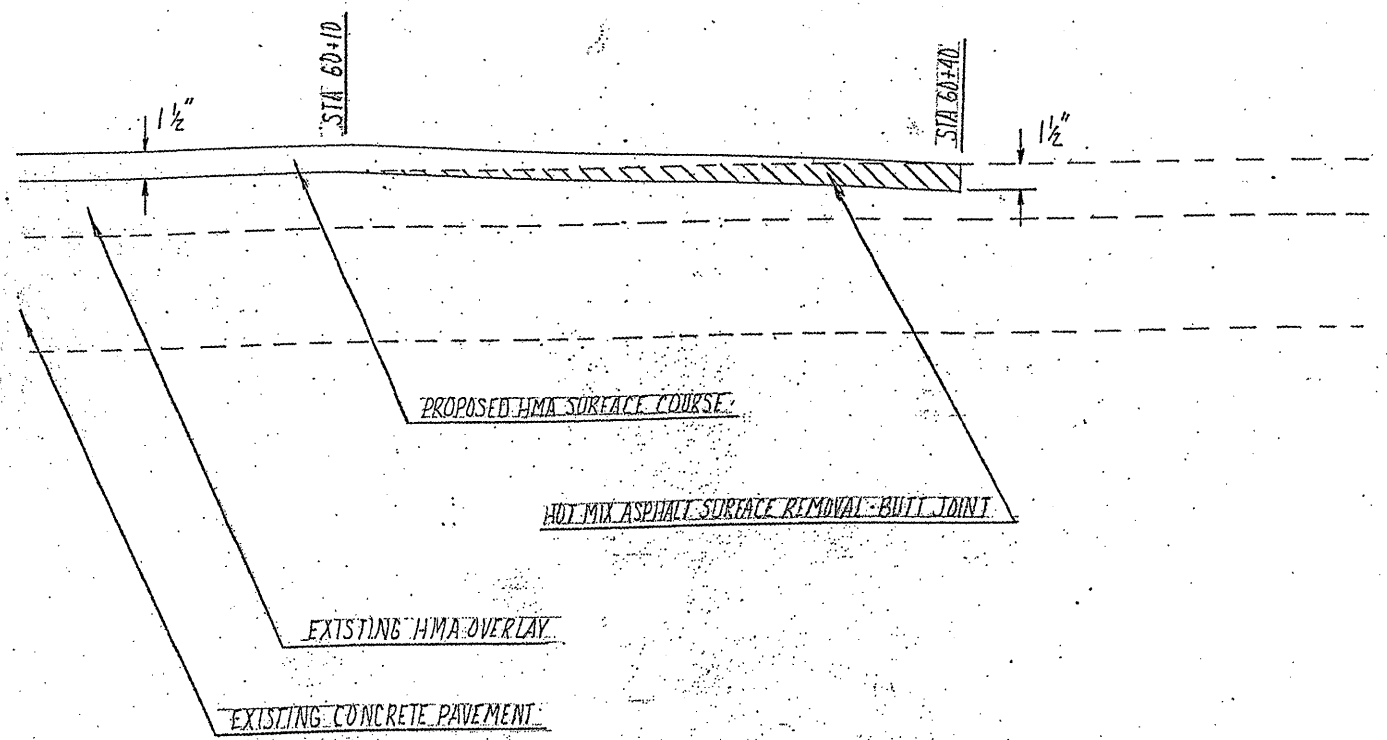
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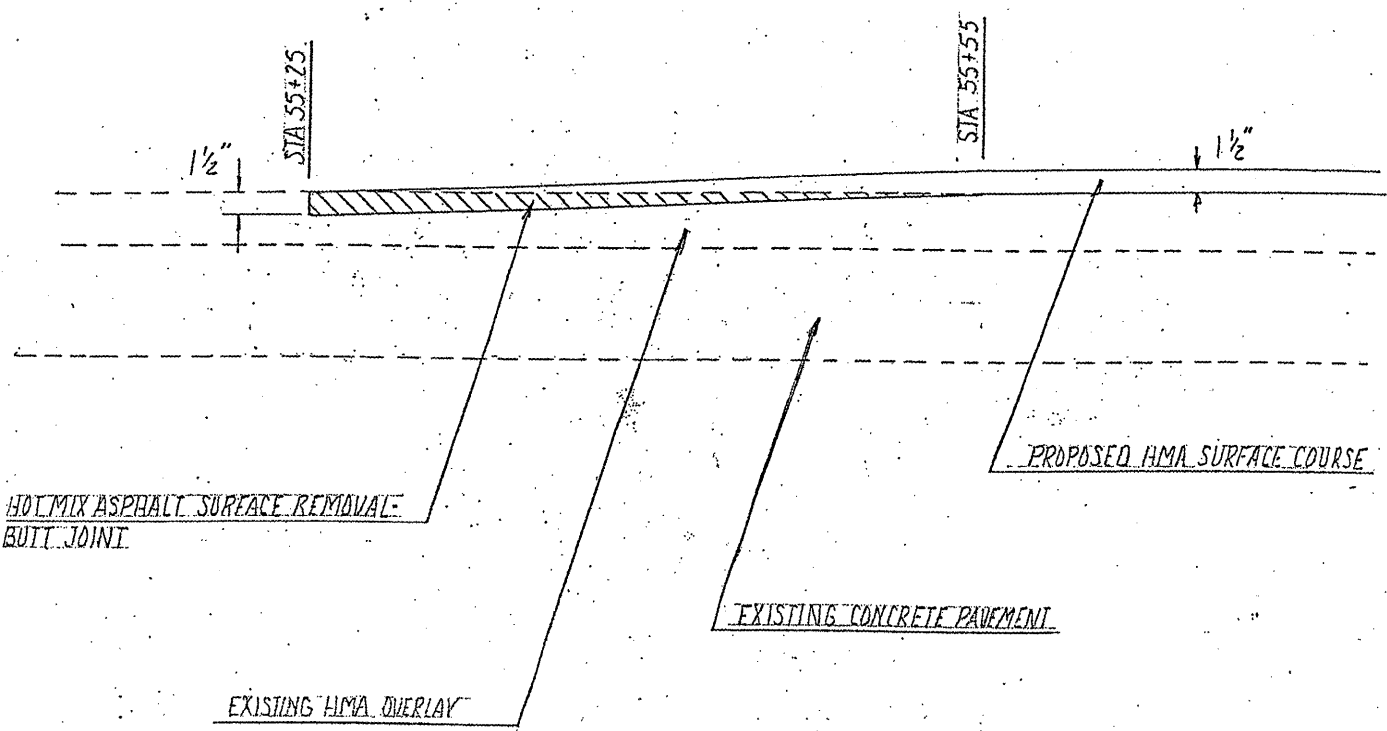
BUTT JOINT DETAILS

STA. 60+10 TO STA. 60+40



BUTT JOINT DETAILS

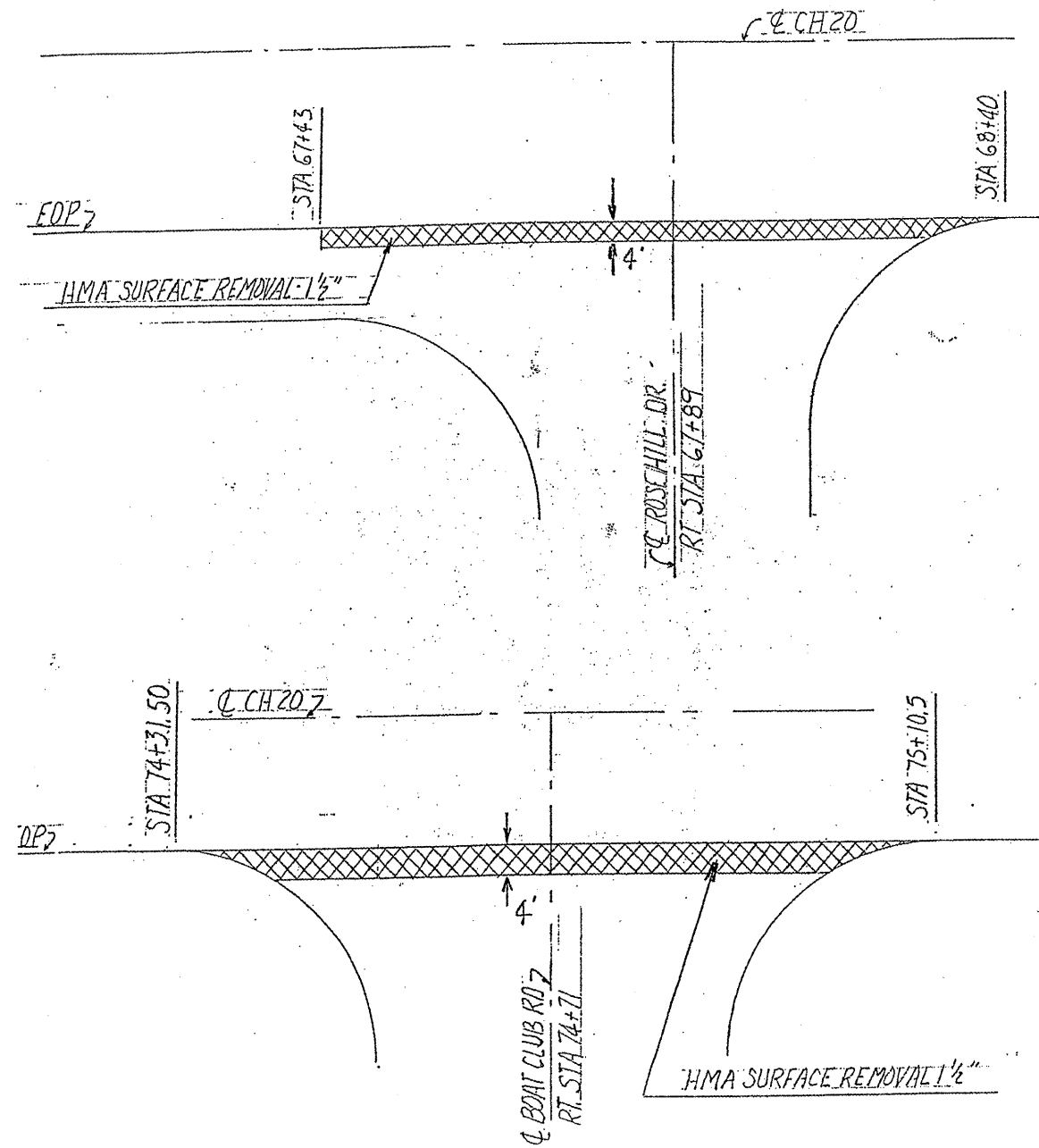
STA 55+25 TO STA 55+55



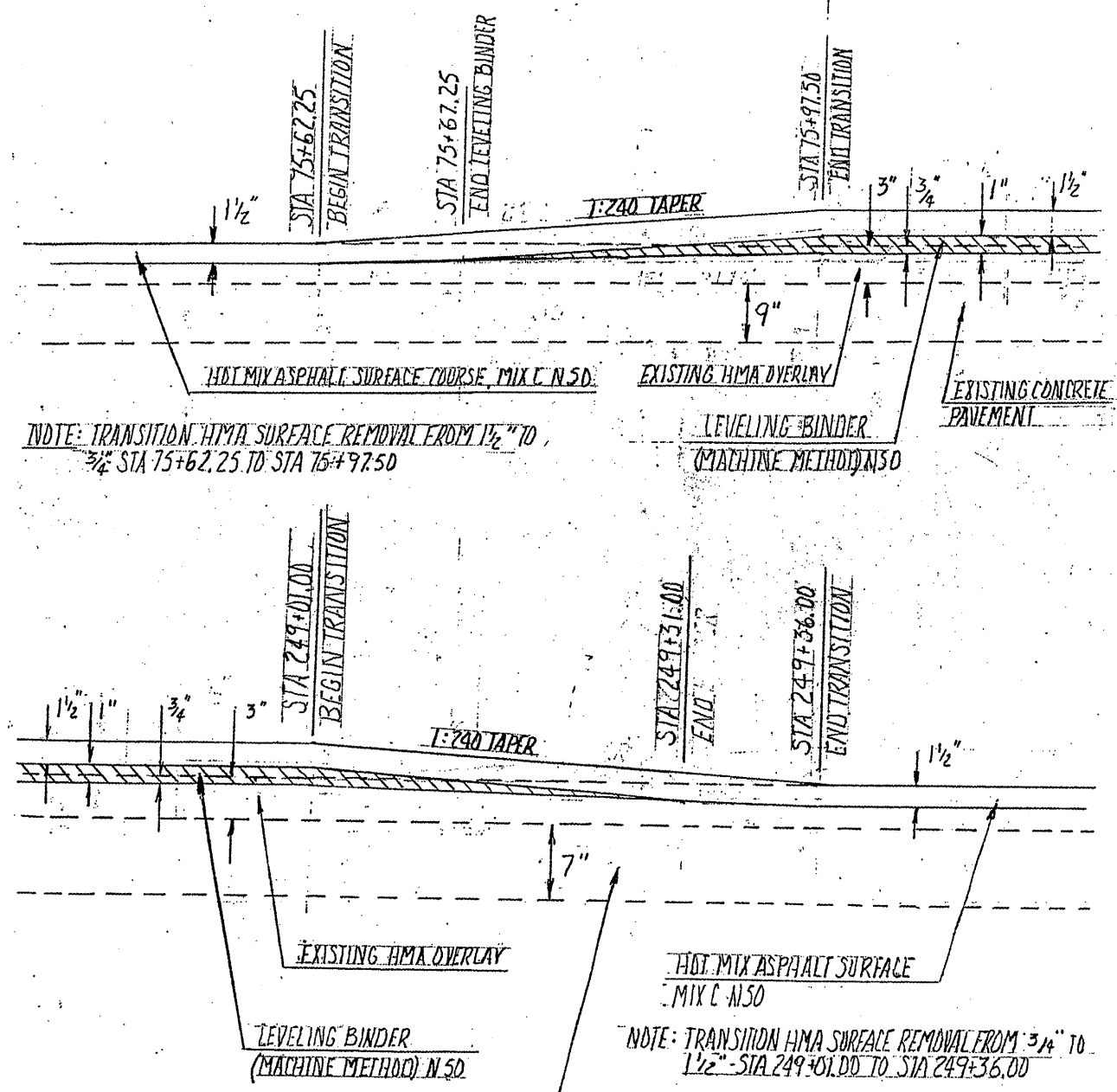
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DETAILS FOR HMA SURFACE REMOVAL 1 1/2"

Rose Hill Drive (Rt. Station 67+89)
Boat Club Road (Rt. Station 74+71)



DETAILS FOR TRANSITION FROM 1 1/2" HMA TO 2 1/2" HMA

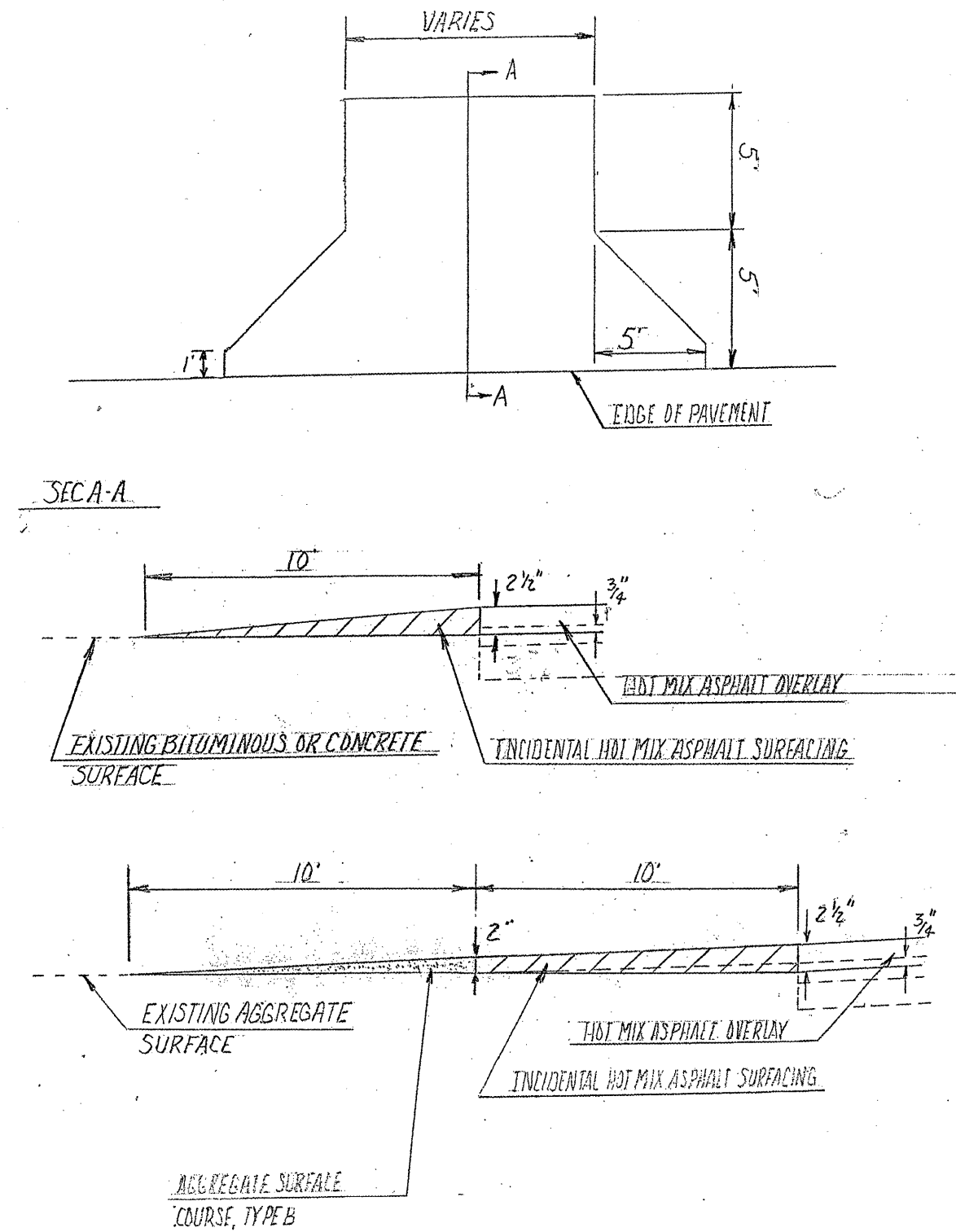


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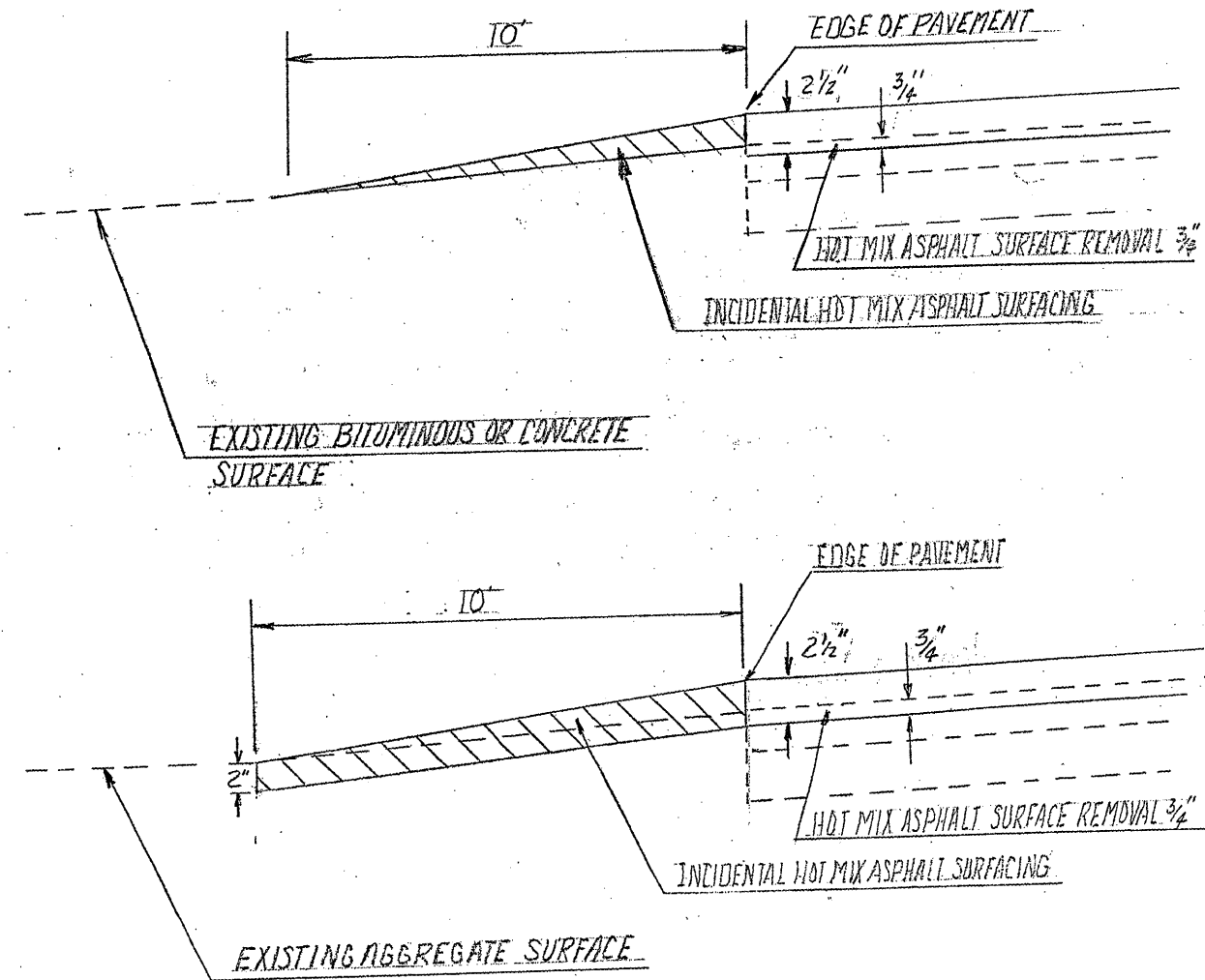
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DETAIL FOR HMA OVERLAY AT ENTRANCES



DETAILS FOR HMA OVERLAY AT INTERSECTIONS

- | | |
|--------------------------------------|-----------------------------------|
| Laural Drive (Rt. Station 93+58) | CH 30 (Lt. Station 125+72) |
| 2150N (Rt. Station 98+17) | Neff Lane (Lt. Station 158+35) |
| Wynn Road (Lt. Station 99+27) | Short Road (Rt. Station 102+81) |
| Killion's Ridge (Lt. Station 116+72) | Baltic Drive (Rt. Station 209+31) |
| Carleton's Dell (Rt. Station 125+18) | |



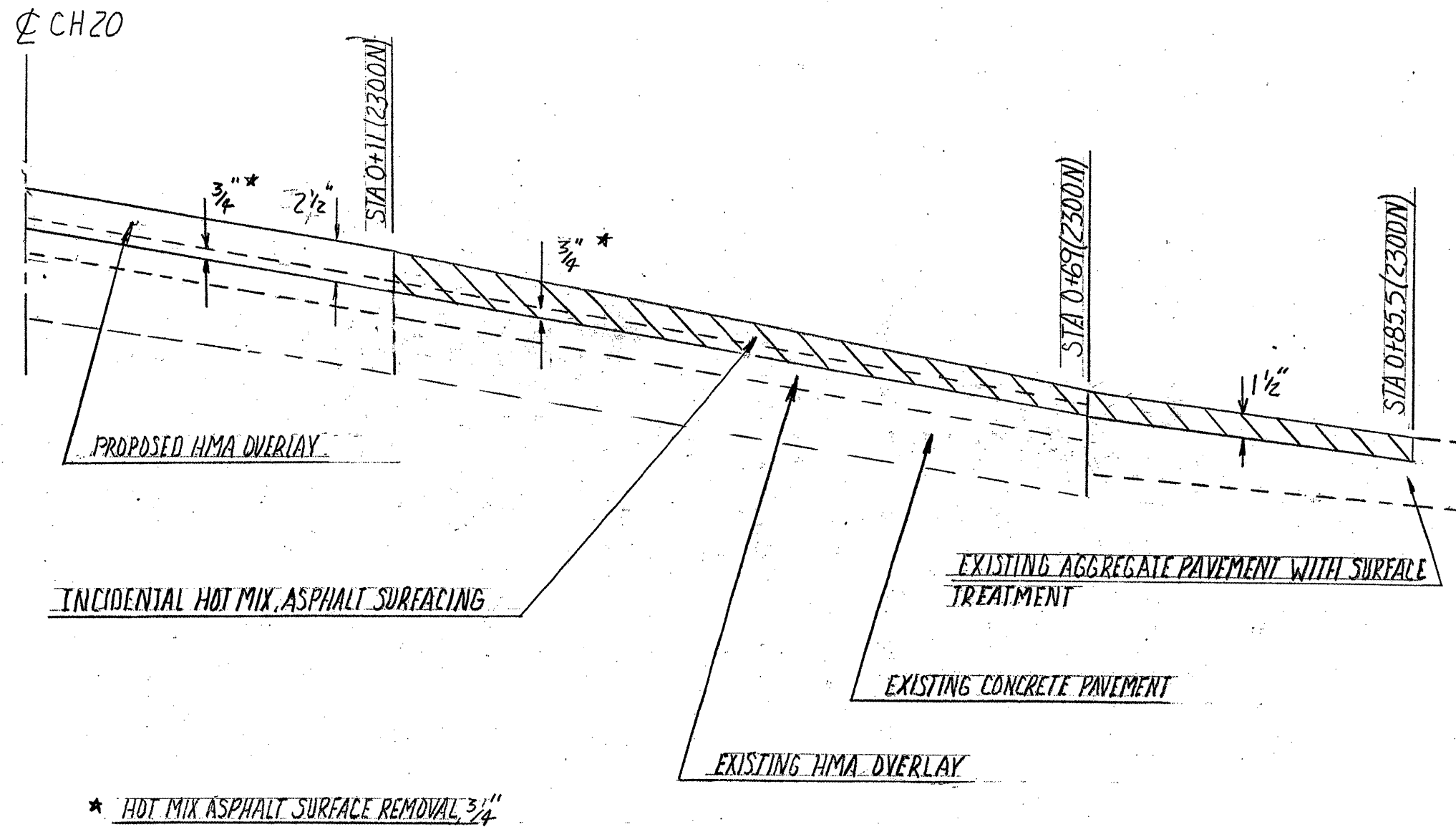
Prepared by:
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DENMARK RD. (C.H. 20)
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**DETAILS FOR PROPOSED PROFILE GRADLINE AT SIDE ROAD
2300N**

(LT STATION 224+24.74)



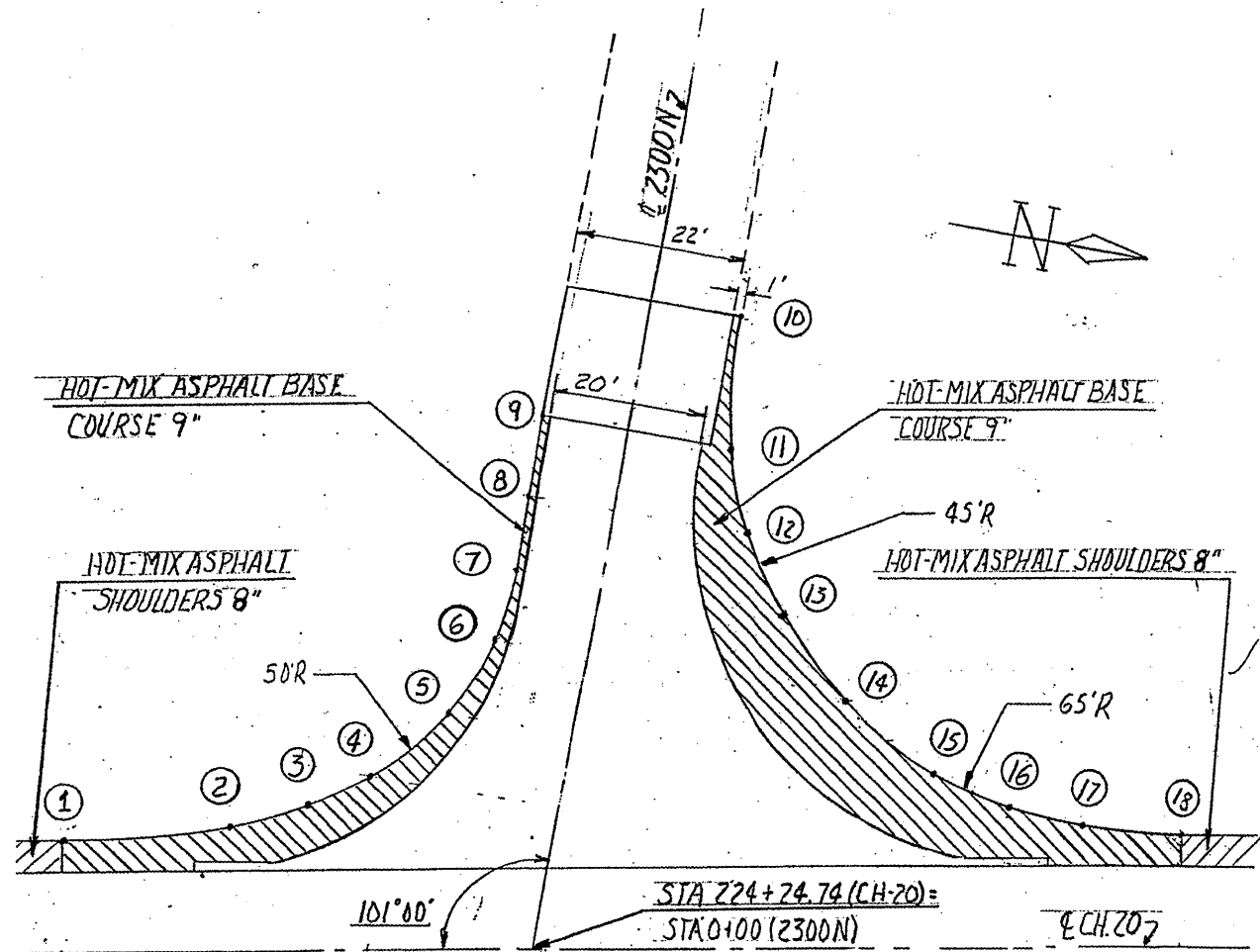
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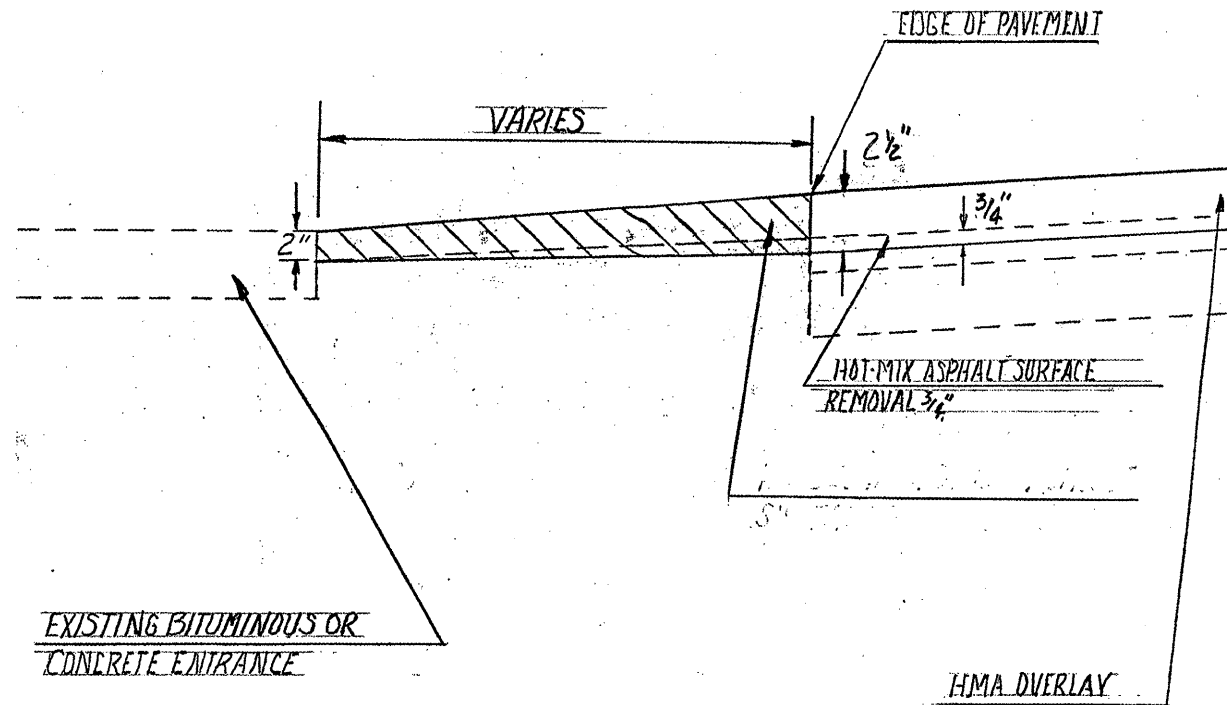
LAYOUT DETAILS FOR HMA BASE COURSE WIDENING SIDE

ROAD 2300 N
(LT. STA. 224+24.74)



SPECIAL DETAIL FOR HMA CONSTRUCTION

Entrance Lt. Station 80+45
Entrance Lt. Station 122+96

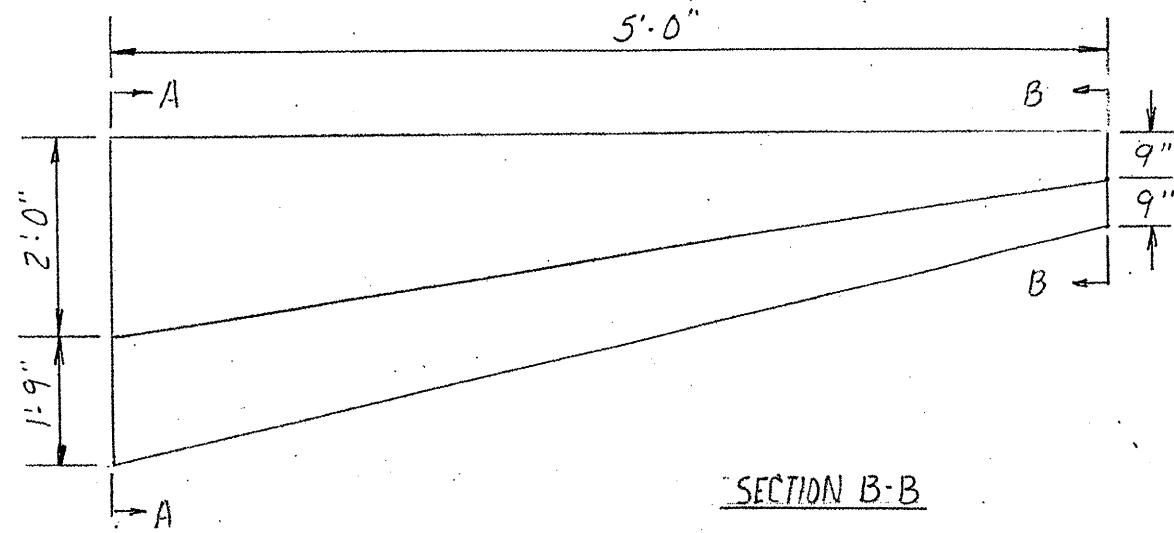


POINT NO.	STATION LOCATION	POINT NO.	STATION LOCATION
1	15.00' LT. STA 223+64.74 CH 20	10	12.0' RT. STA 0+85.50 2300N
2	16.90' LT. STA 223+85.74 CH 20	11	15.3' RT. STA 0+87.00 2300N
3	19.50' LT. STA 223+95.74 CH 20	12	18.8' RT. STA 0+58.50 2300N
4	23.20' LT. STA 224+03.74 CH 20	13	25.5' RT. STA 0+48.50 2300N
5	17.00' LT. STA 0+28.50 2300N	14	37.0' RT. STA 0+38.5 2300N
6	12.90' LT. STA 0+38.50 2300N	15	23.0' LT. STA 124+77.74 CH 20
7	11.20' LT. STA 0+48.50 2300N	16	19.0' RT. STA 124+87.74 CH 20
8	17.00' LT. STA 0+58.50 2300N	17	16.7' LT. STA 124+97.74 CH 20
9	11.00' LT. STA 0+69.00 2300N	18	15.0' LT. STA 125+10.74 CH 20

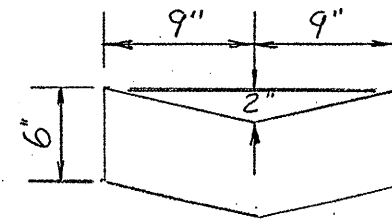
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DETAILS FOR SPECIAL GUTTER INLET

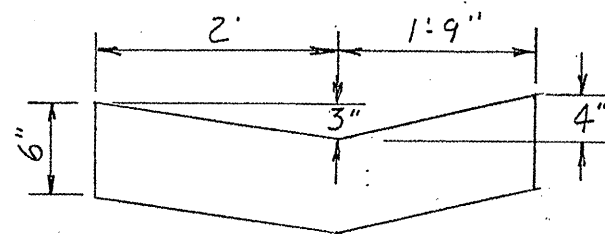
LT. STA. 60+40 TO LT. STA. 60+45
 RT. STA. 60+40 TO RT. STA. 60+45



SECTION B-B



SECTION A-A

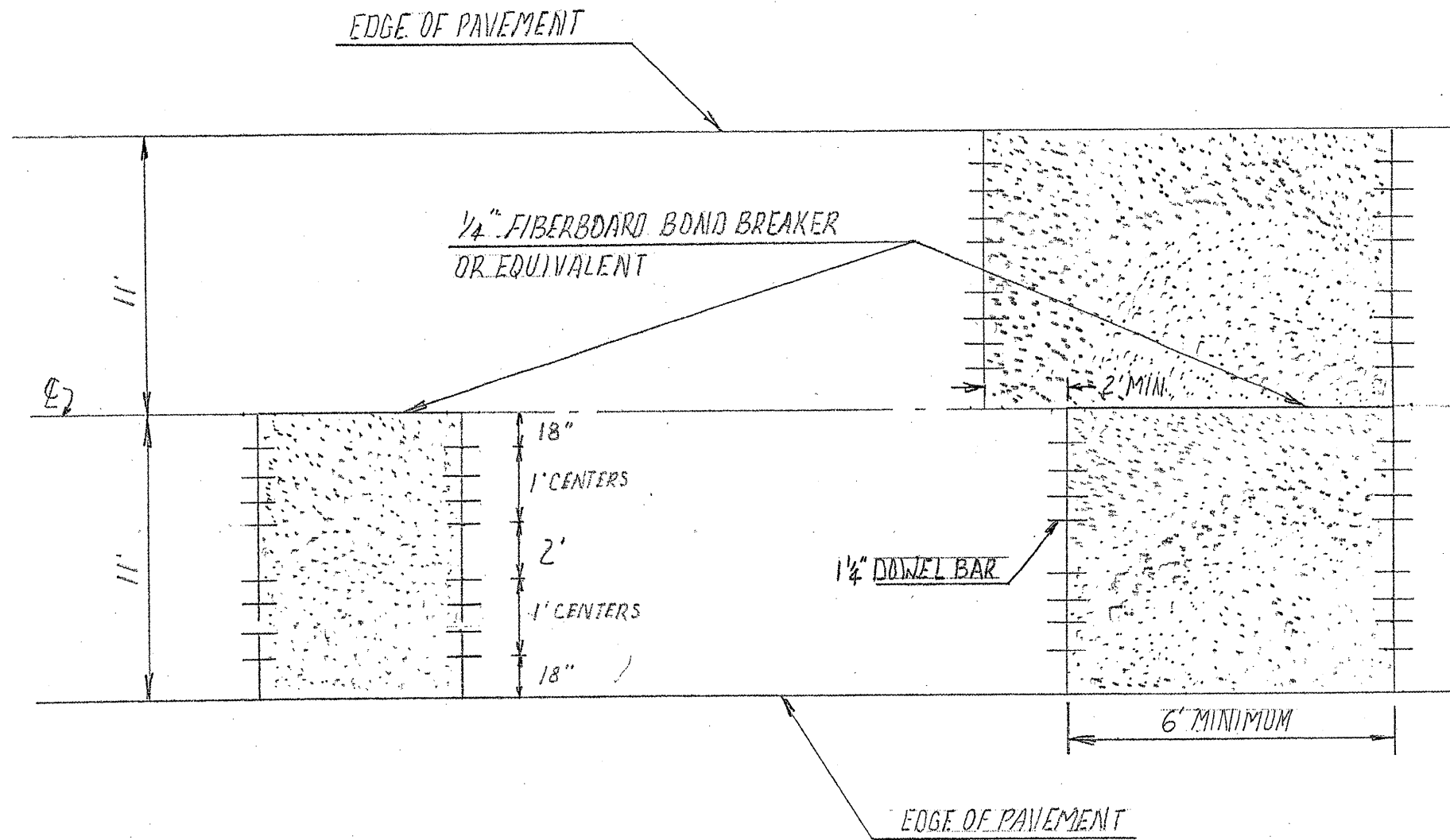


QUANTITIES

SEC A-A TO SEC B-B USE 0.23 CU YD CLASS
 SI CONCRETE (OUTLET)
 LT STA 60+40 TO LT STA 60+45: 0.23 CU YD
 RT STA 60+40 TO RT STA 60+45: 0.23 CU YD
 TOTAL 0.46 CU YD

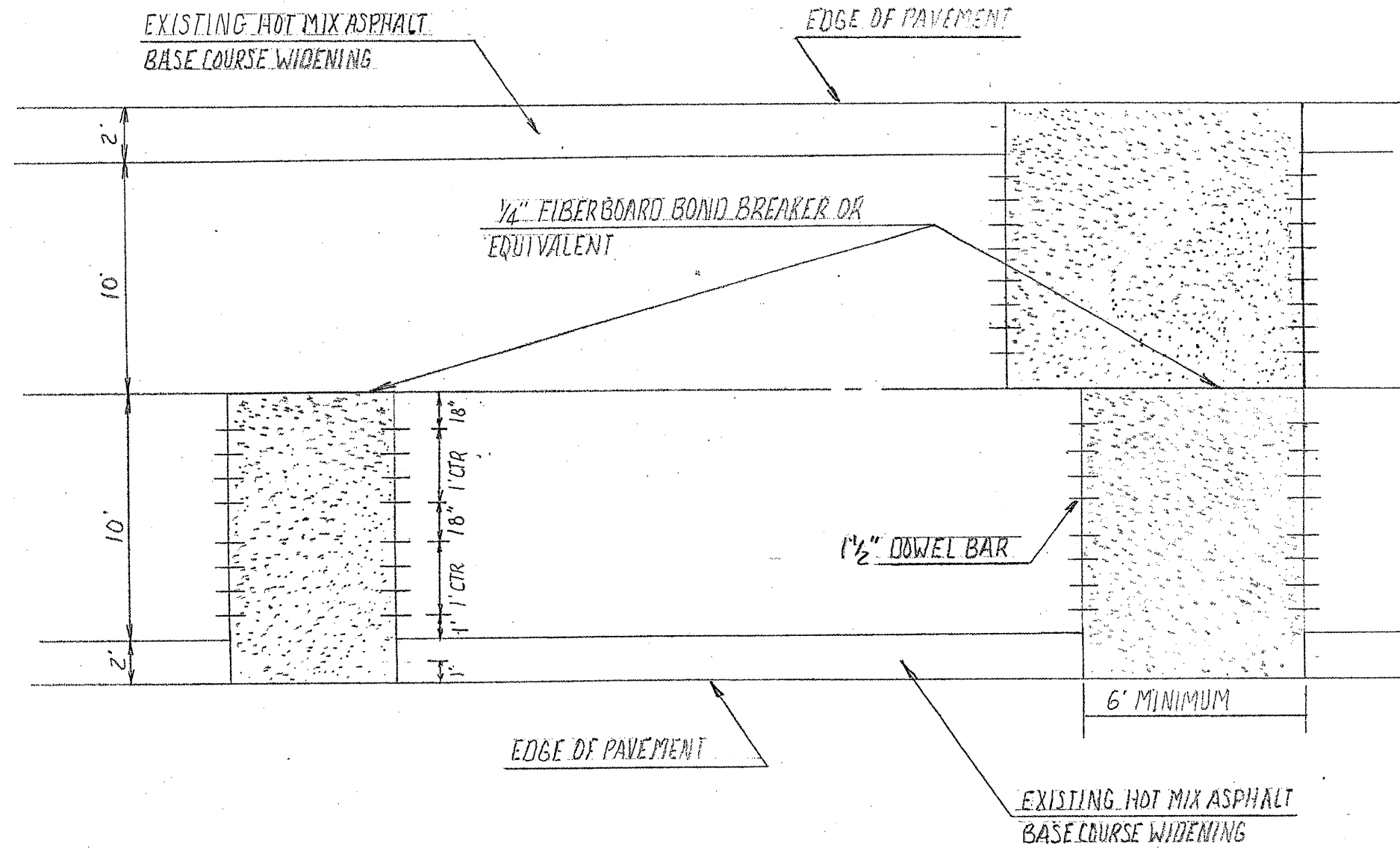
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DOWEL BAR PLACEMENT FOR 11' LANE



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DOWEL BAR PLACEMENT FOR 12' LANE



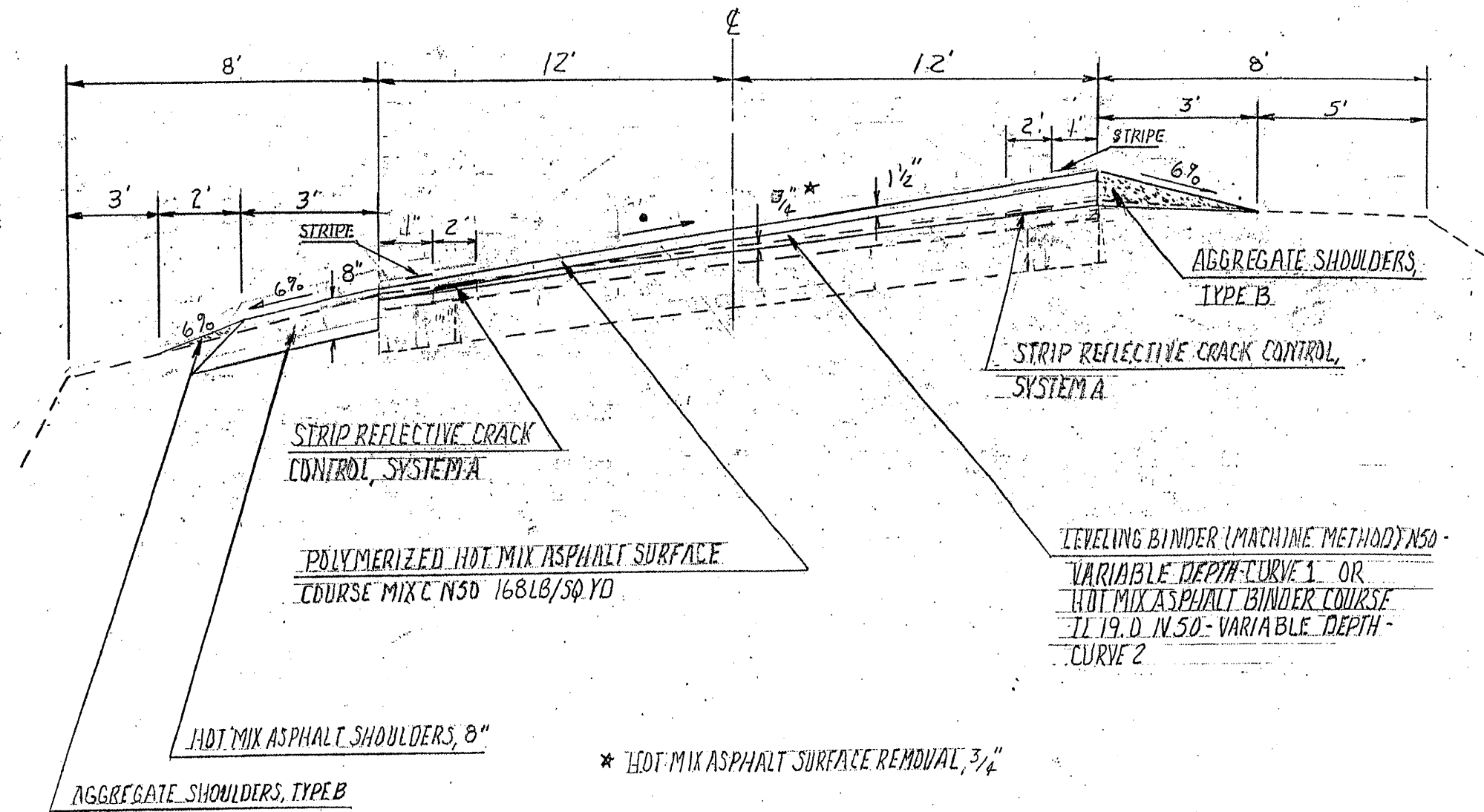
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**PROPOSED TYPICAL CROSS-SECTION FOR
SUPERELEVATION CORRECTION OF CURVES**

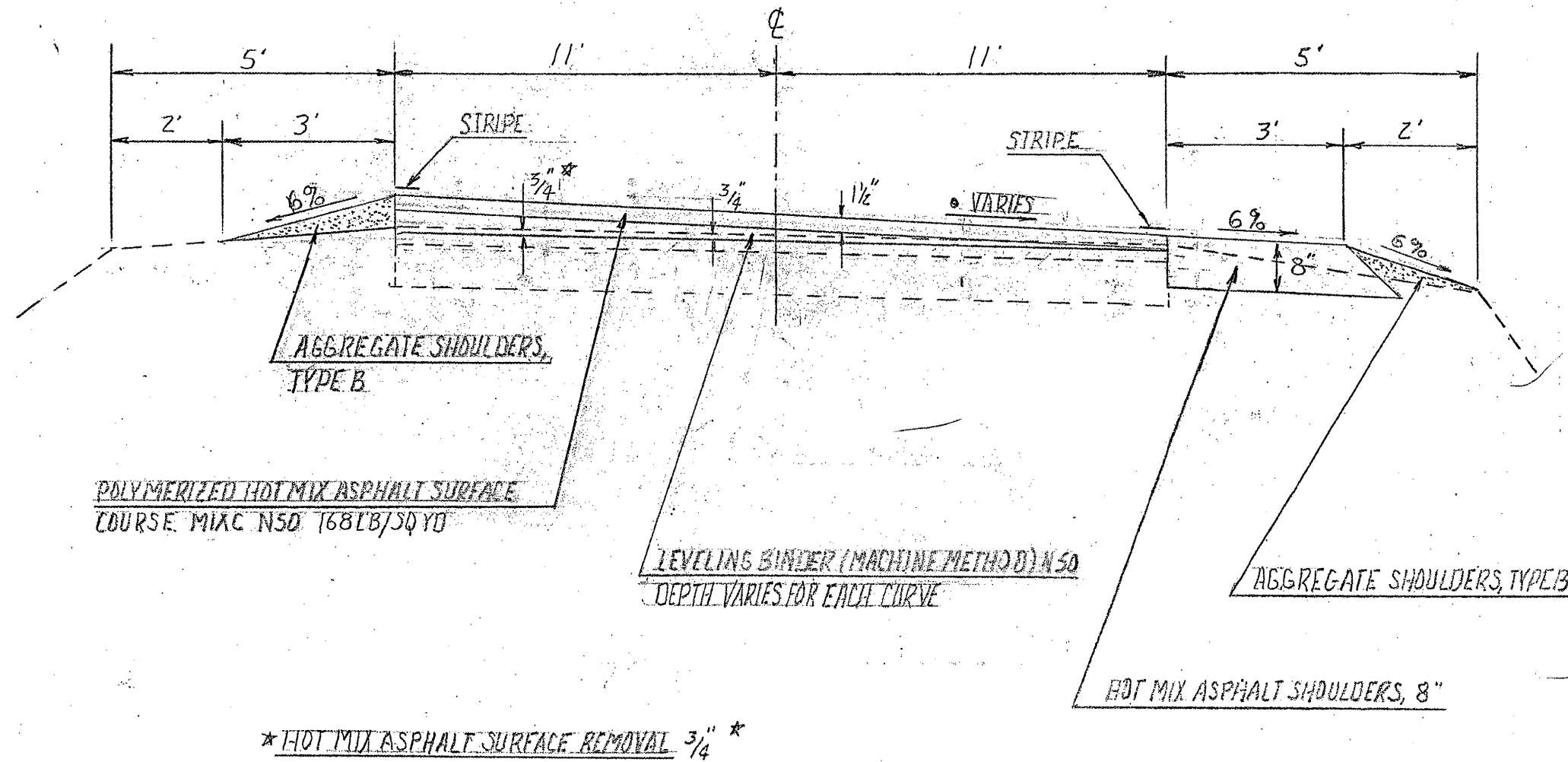
- CURVE 1 PROPOSED SE = 8%
- CURVE 3 PROPOSED SE = 4%



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**PROPOSED TYPICAL CROSS-SECTION FOR
SUPERELEVATION CORRECTION OF CURVES**

- CURVE 4: PROPOSED SE 5.0%
- CURVE 5: PROPOSED SE 5.0%
- CURVE 6: PROPOSED SE 3.0%
- CURVE 7: PROPOSED SE 8.0%
- CURVE 8: PROPOSED SE 6.5%

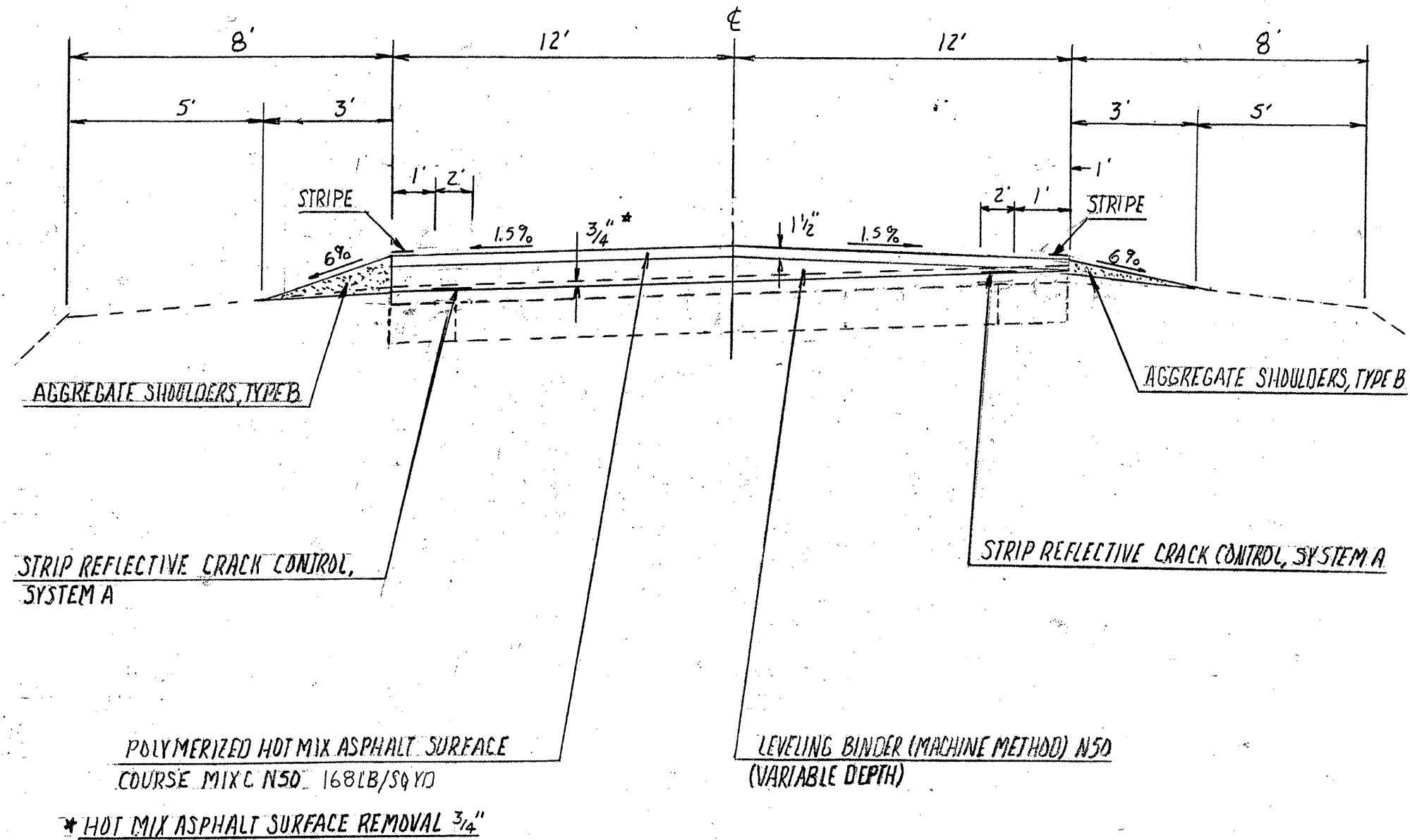


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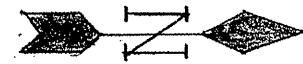
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**PROPOSED TYPICAL CROSS-SECTION FOR
REMOVING SUPERELEVATION FROM CURVE 2**

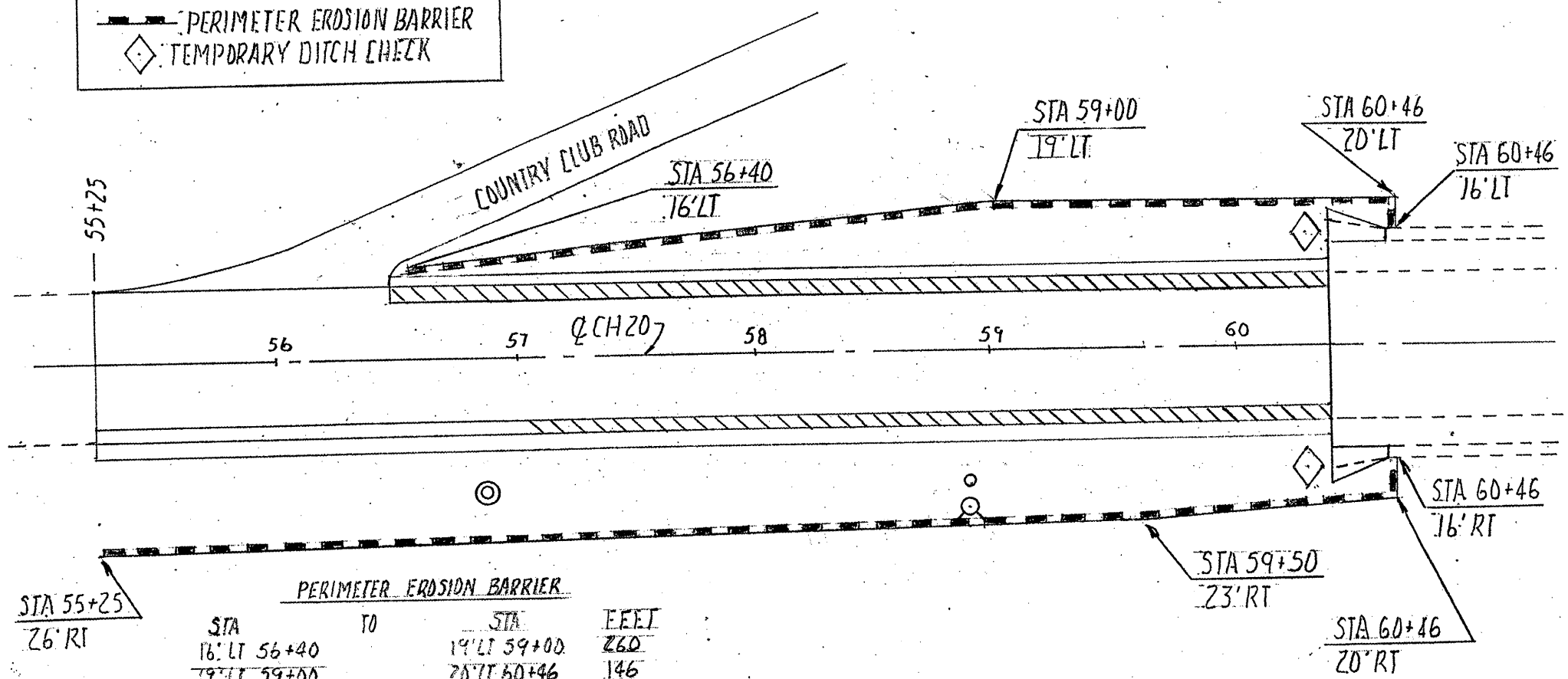


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TEMPORARY EROSION CONTROL PLAN



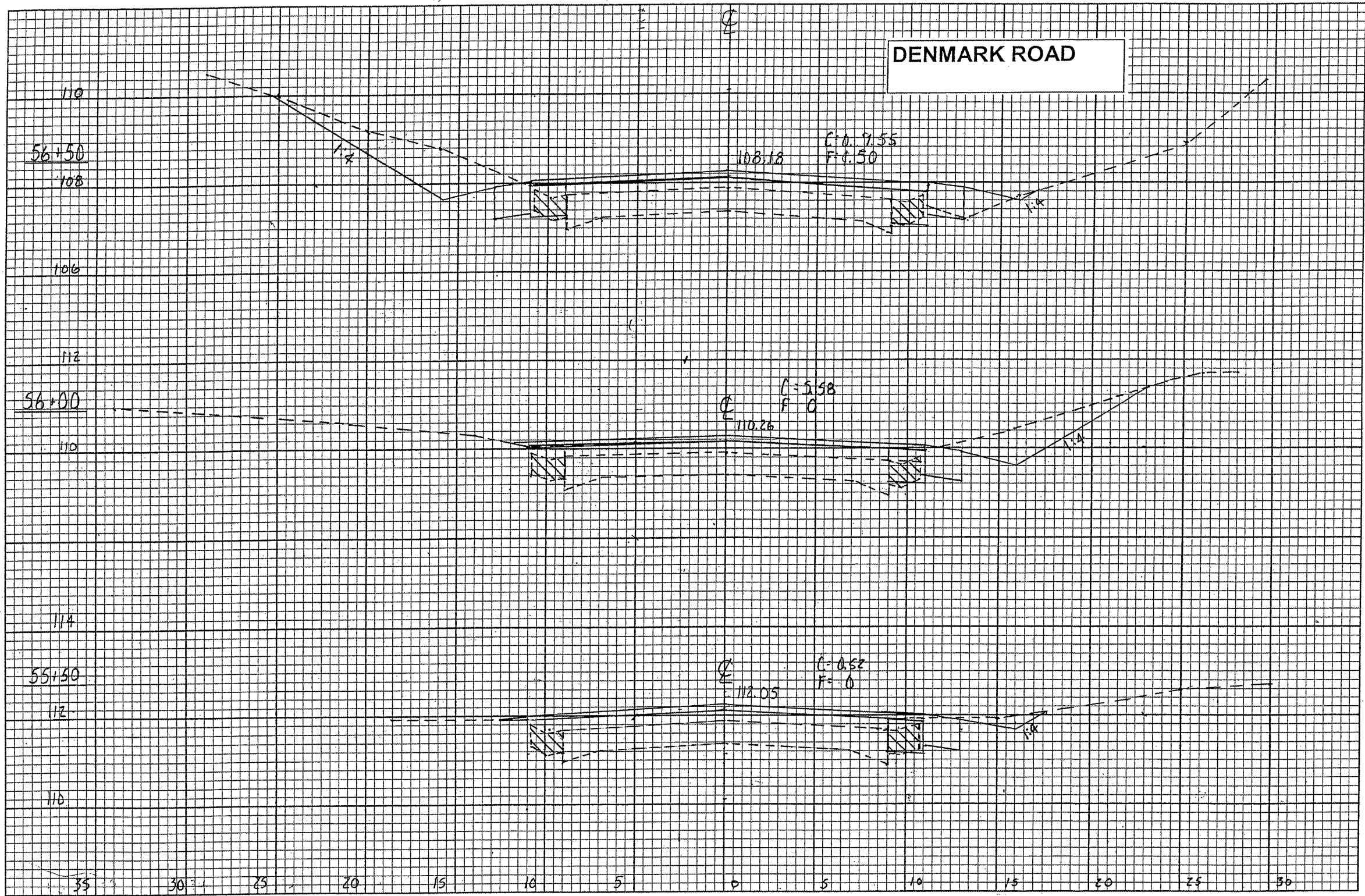
PERIMETER EROSION BARRIER
 TEMPORARY DITCH CHECK



PERIMETER EROSION BARRIER			
STA	TO	STA	FEET
STA 55+25		16' LT 56+40	260
26' RT		19' LT 59+00	146
		20' LT 60+46	4
		16' LT 60+46	4
		23' RT 59+50	425
		20' RT 60+46	96
		16' RT 60+46	4
		TOTAL	935

- INTENDED SEQUENCE**
1. PLACEMENT OF PERIMETER EROSION BARRIER
 2. PRIOR TO THE COMMENCEMENT OF ANY WORK
(SEE STANDARD 2800D)
 3. PLACEMENT OF TEMPORARY EROSION CONTROL SEEDING
DURING GRADING BEHIND NEW PMA SHOULDERS
 4. PLACEMENT OF PERMANENT SEEDING IMMEDIATELY
AFTER COMPLETION OF FINAL GRADING AND SHAPING

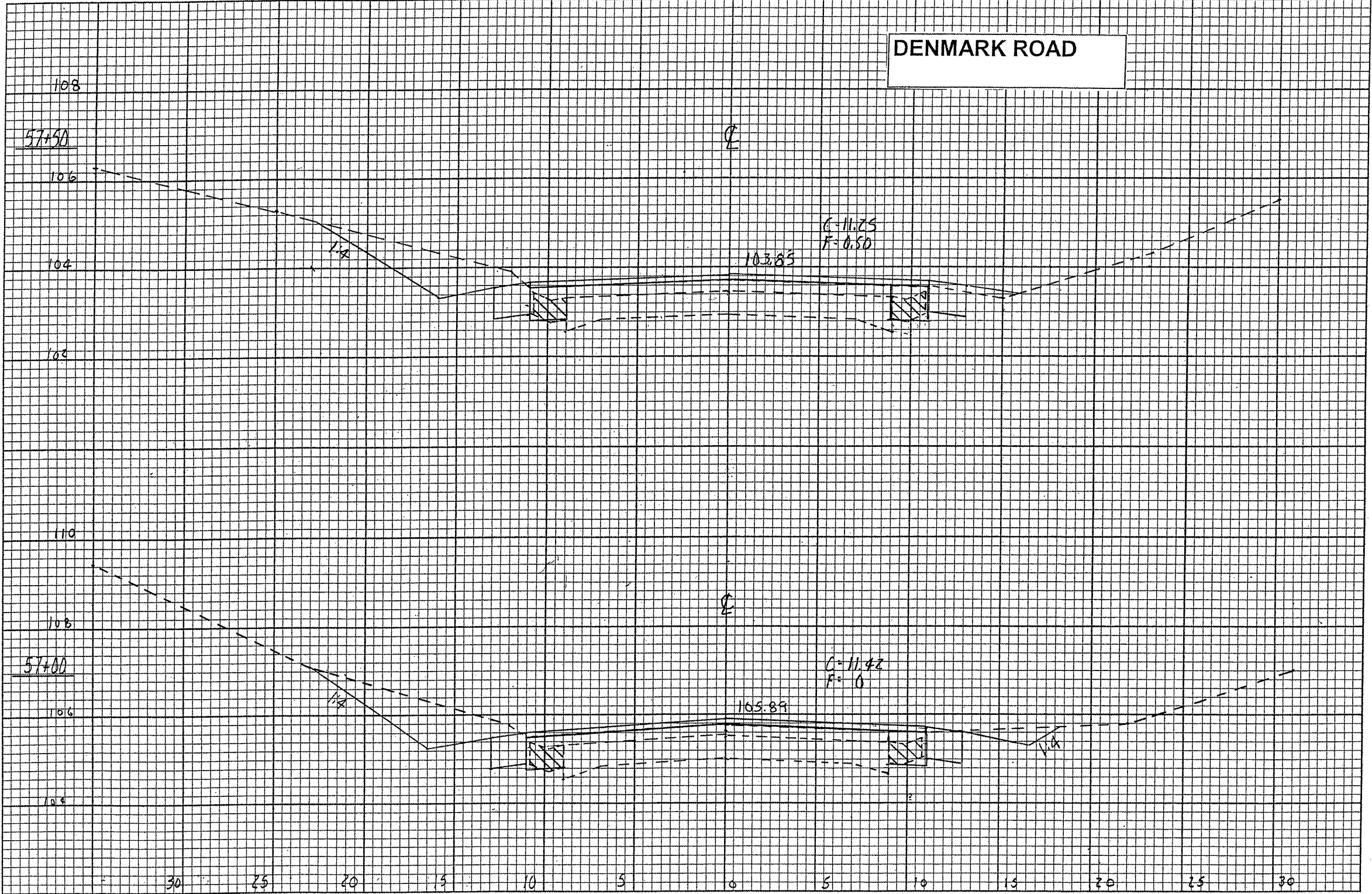
TEMPORARY DITCH CHECKS	
STA	EACH
14' LT 60+40	1.0
16' RT 60+40	1.0
TOTAL	2.0



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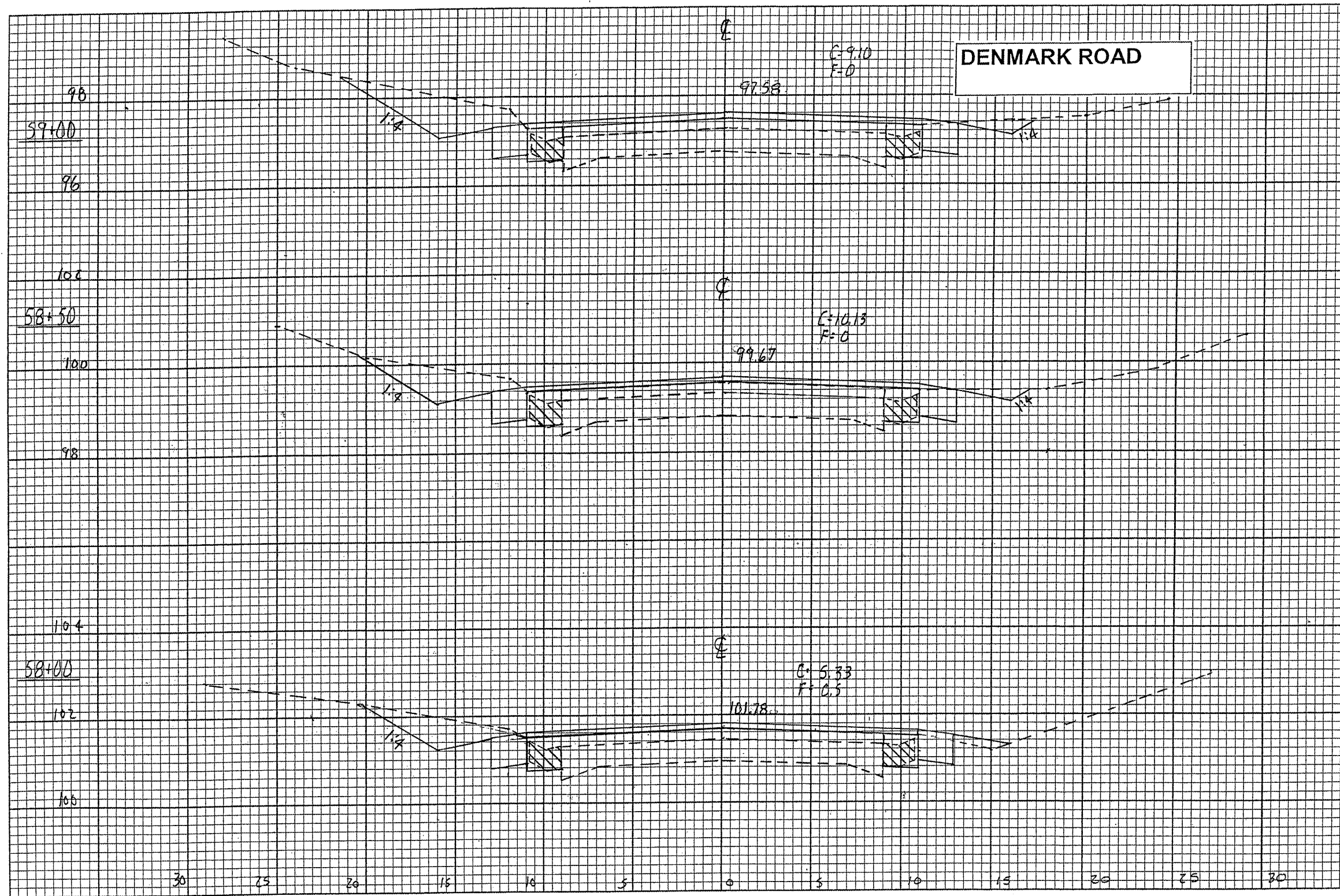
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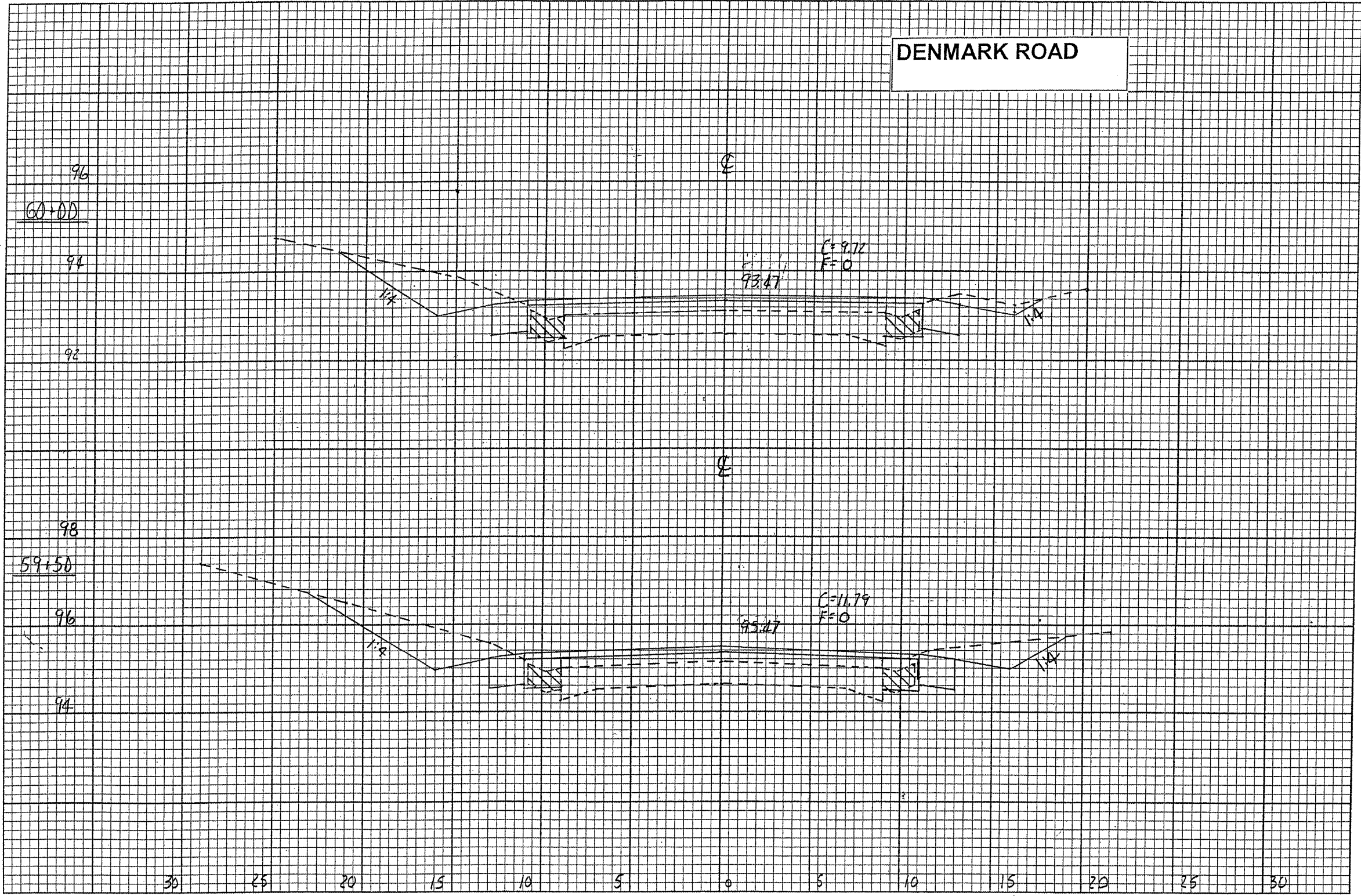
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DENMARK ROAD

60+00

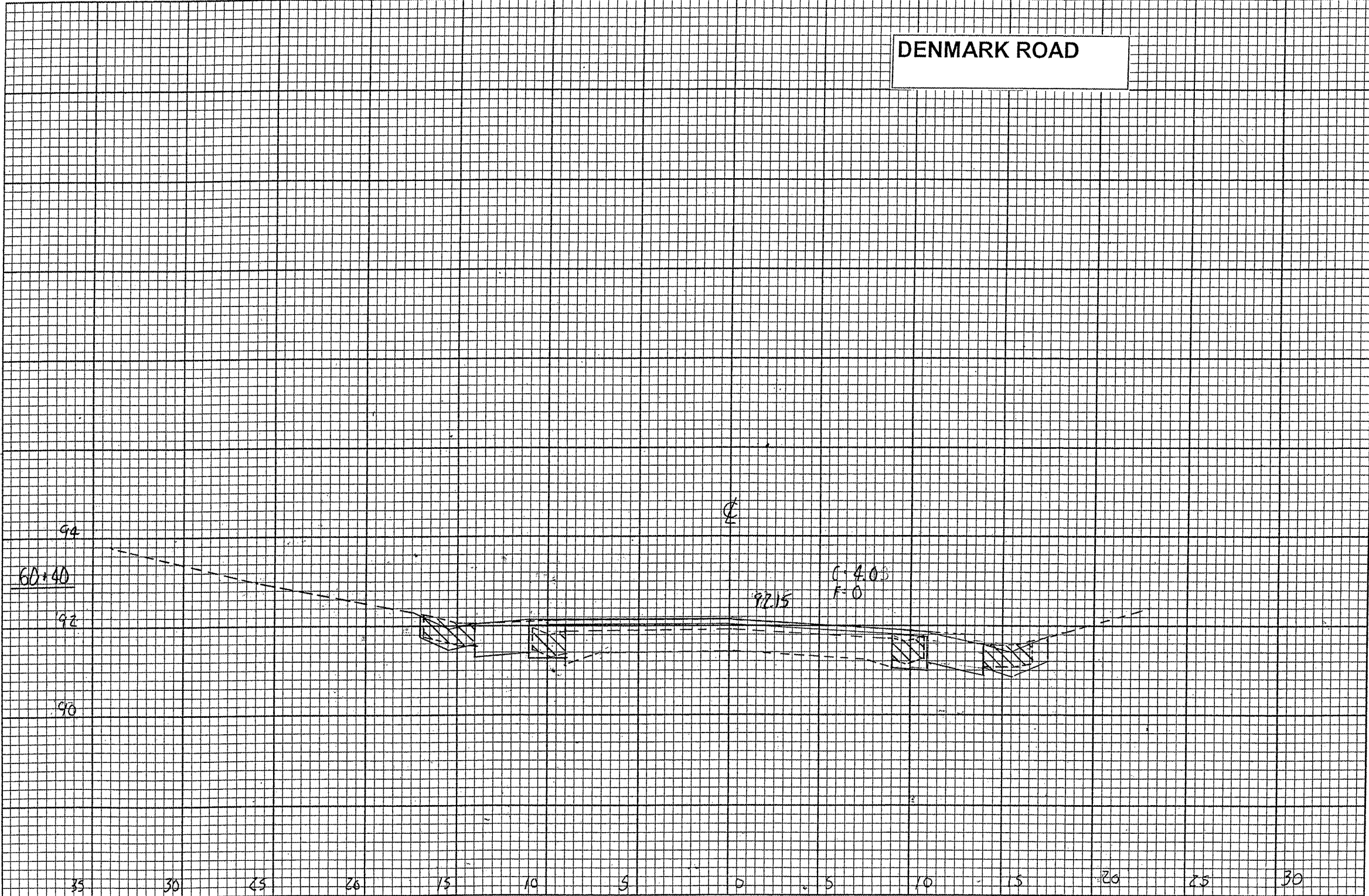
59+50

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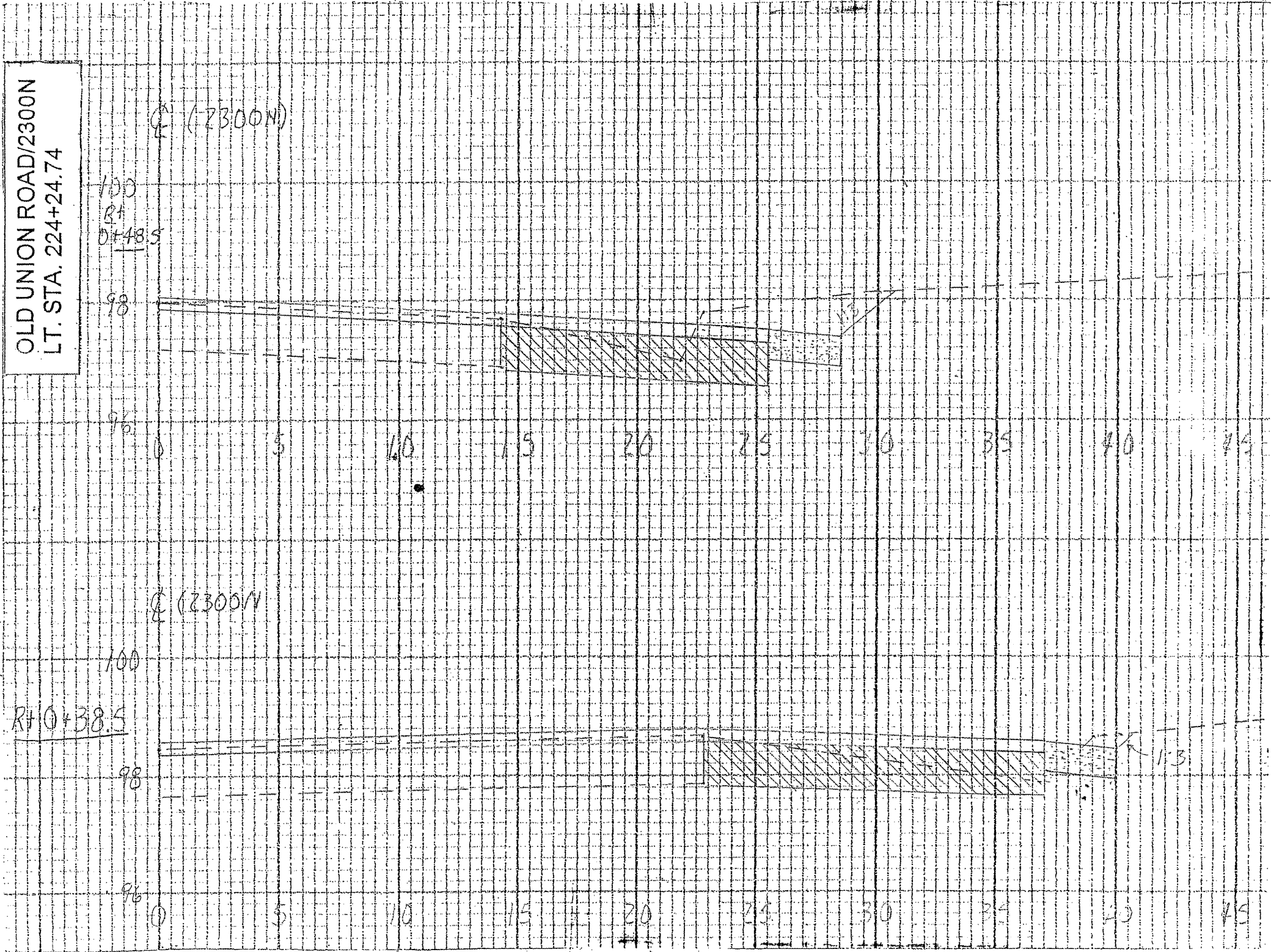
DENMARK ROAD



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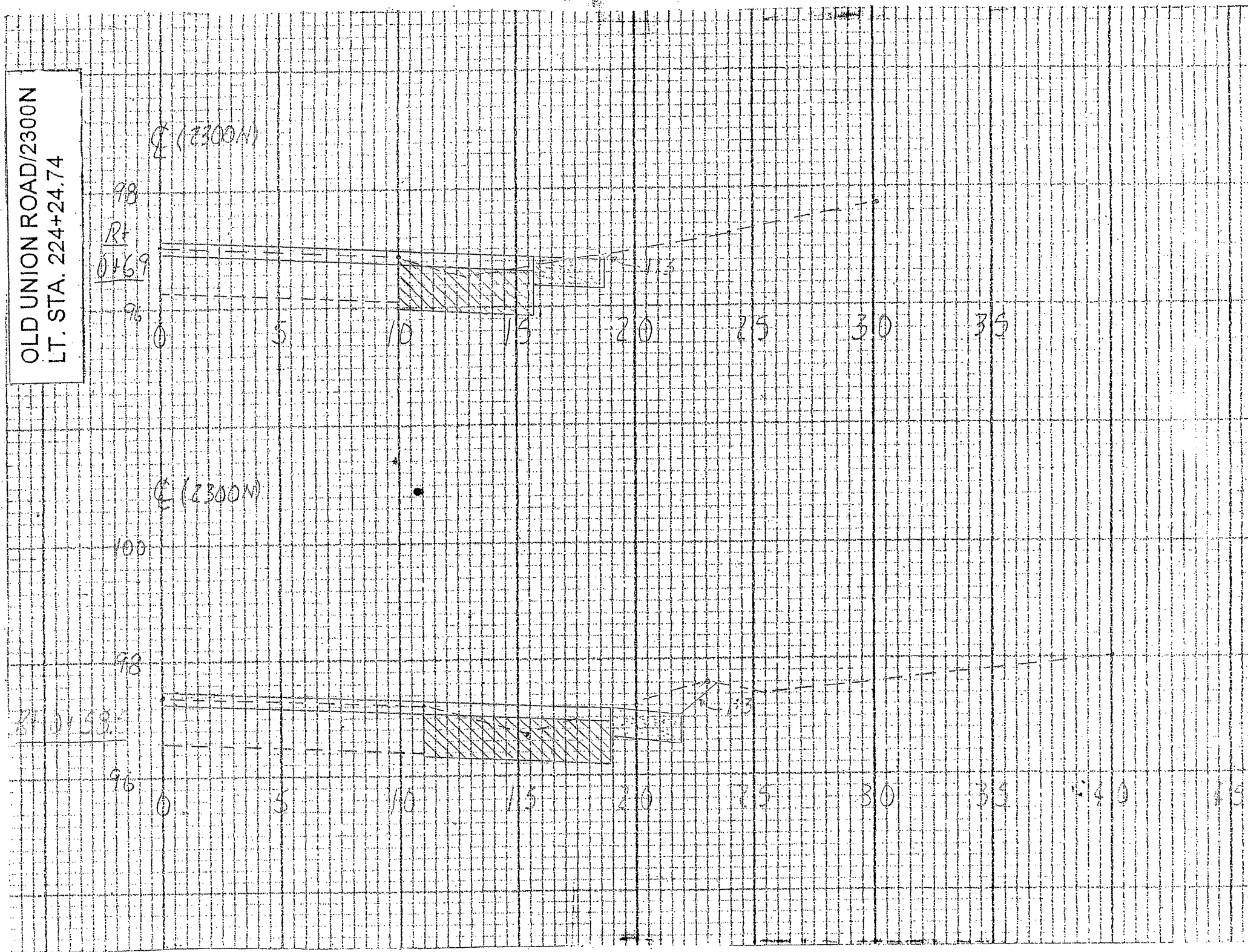
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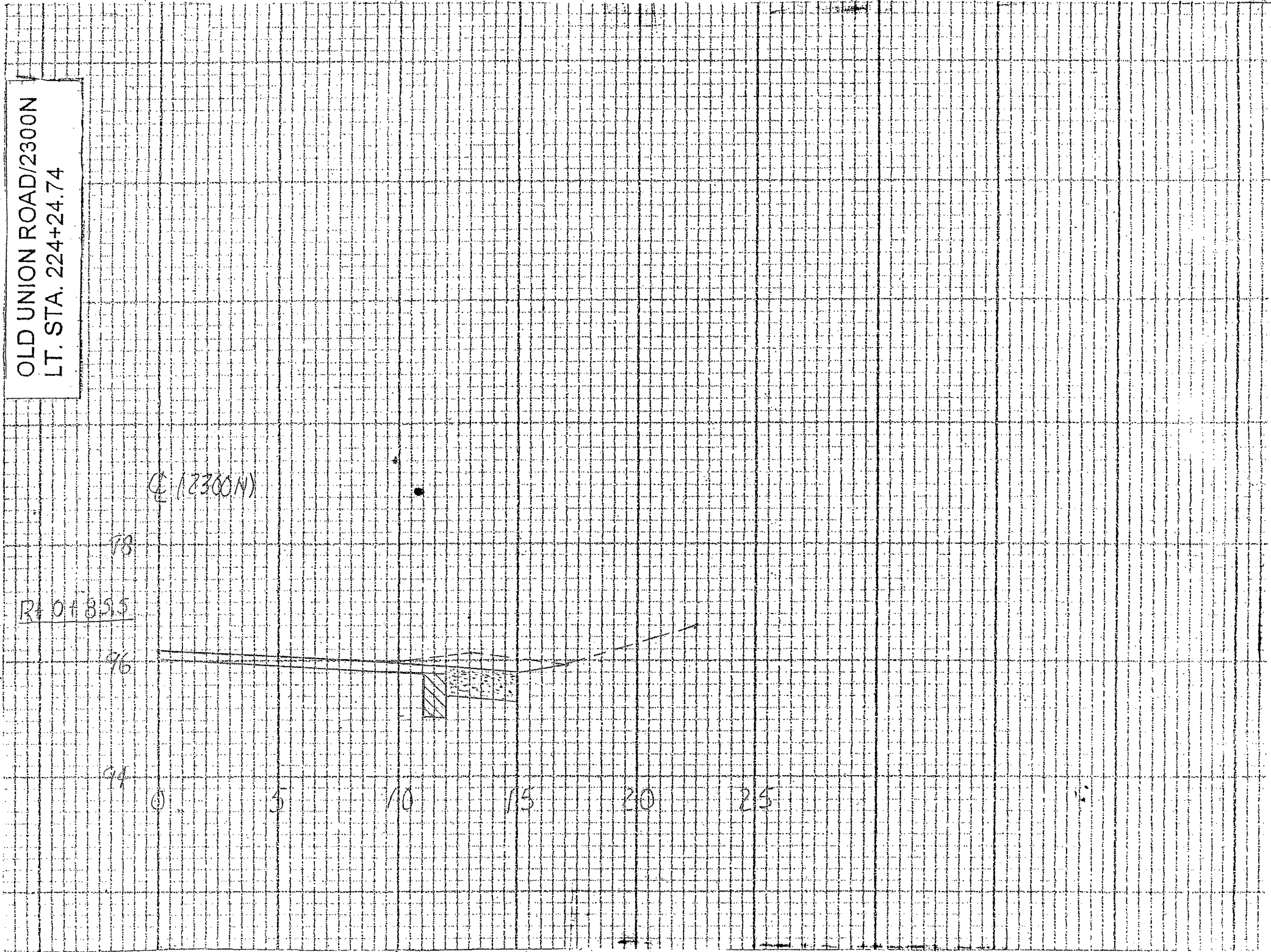


OLD UNION ROAD/2300N
 LT. STA. 224+24.74

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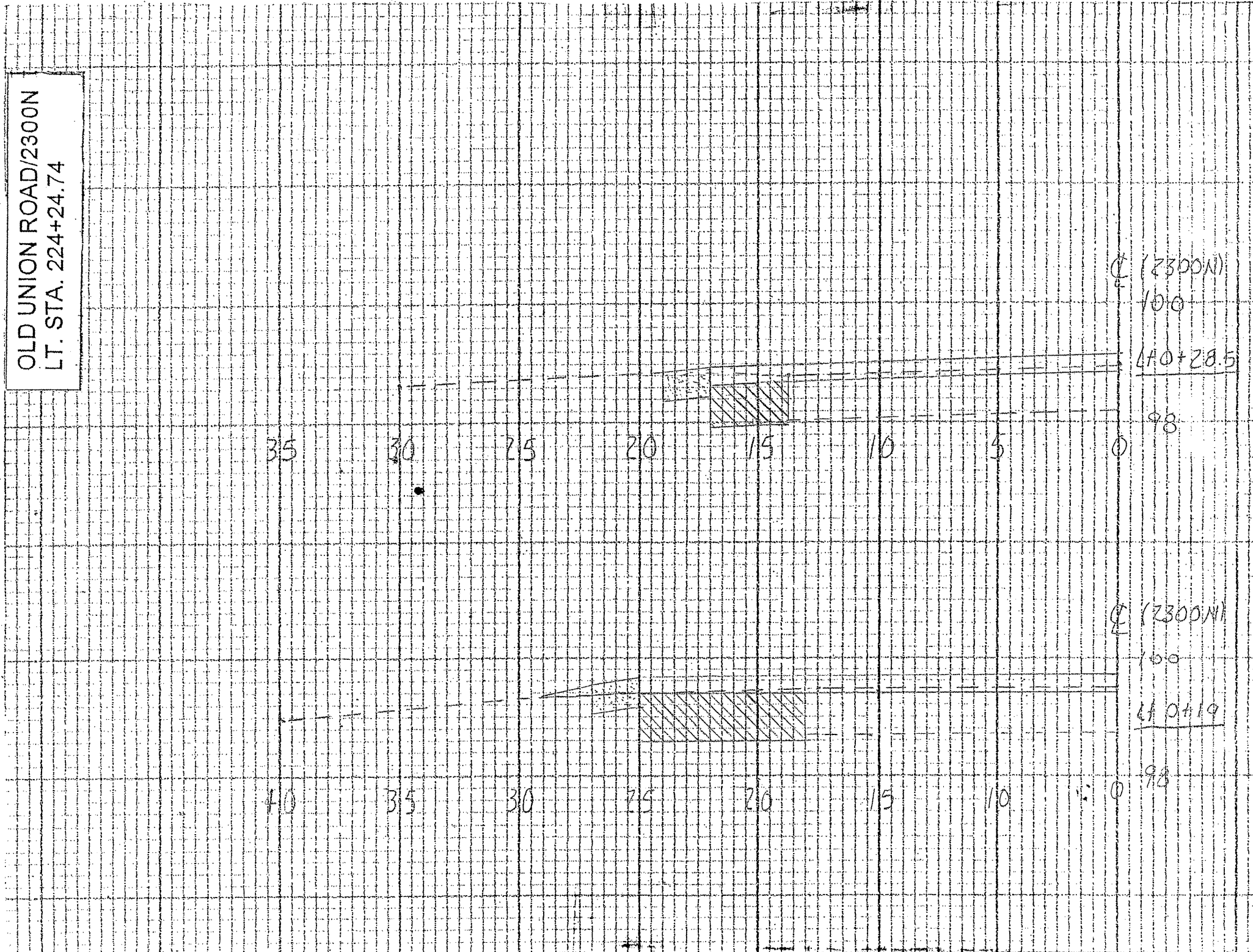
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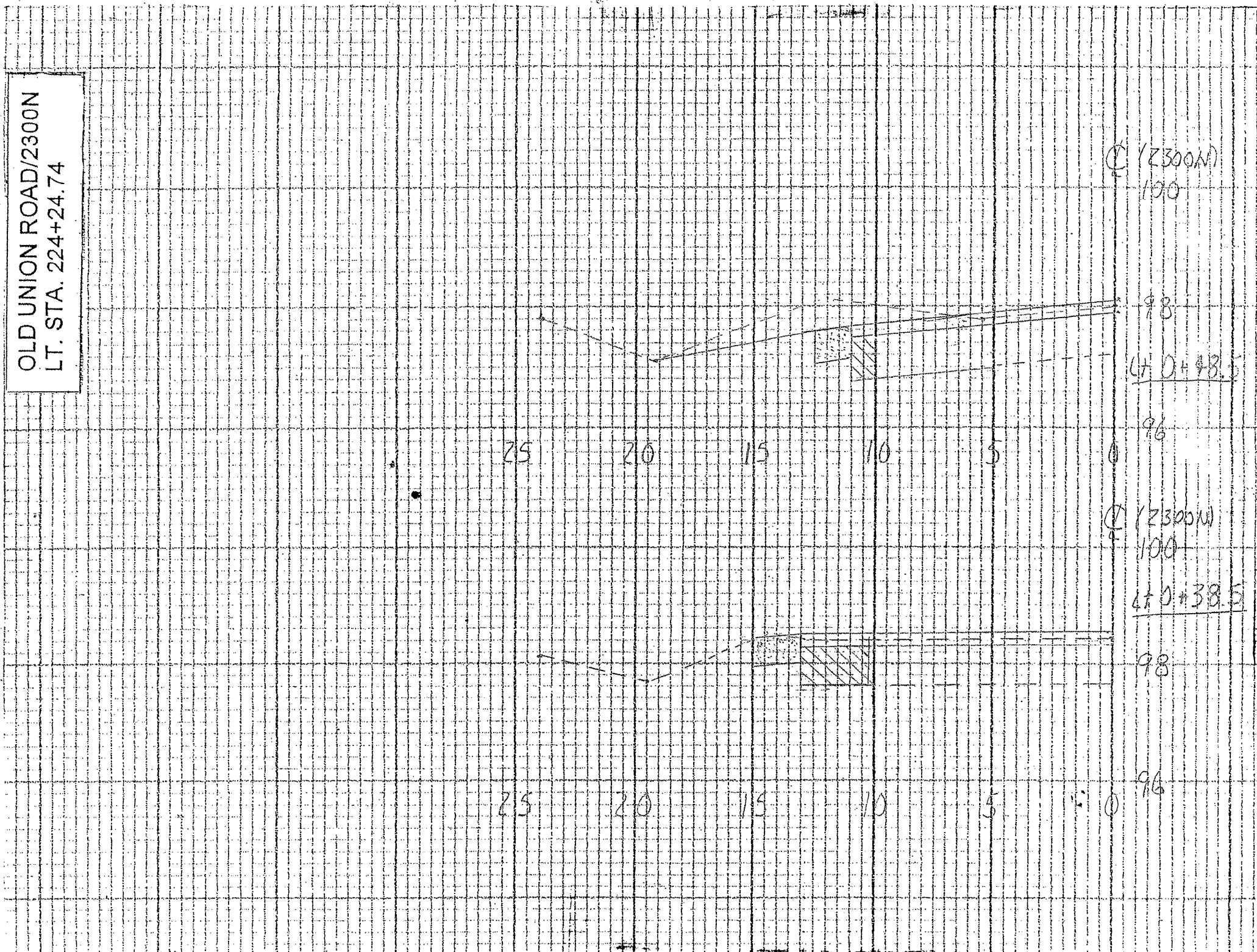
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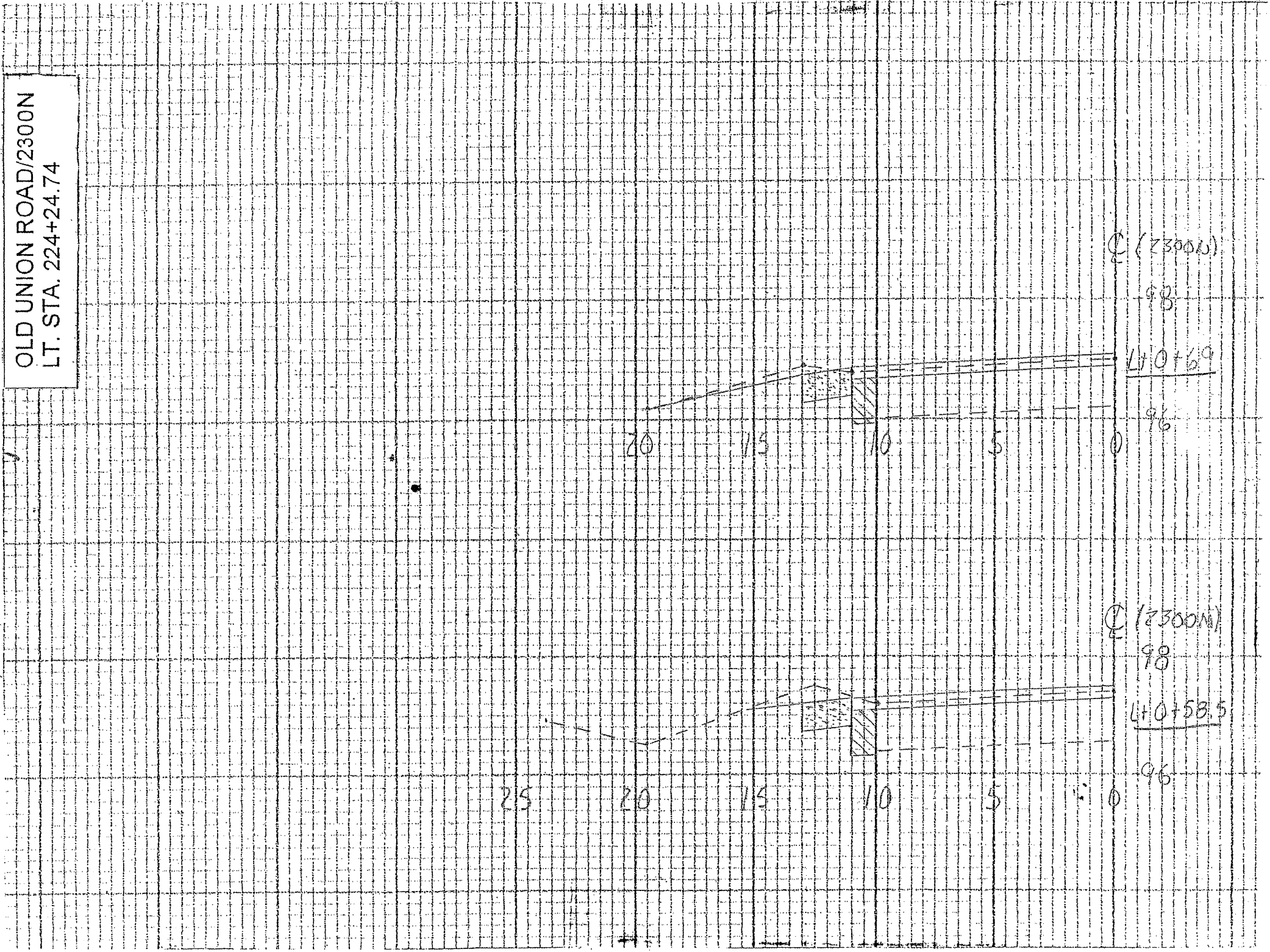
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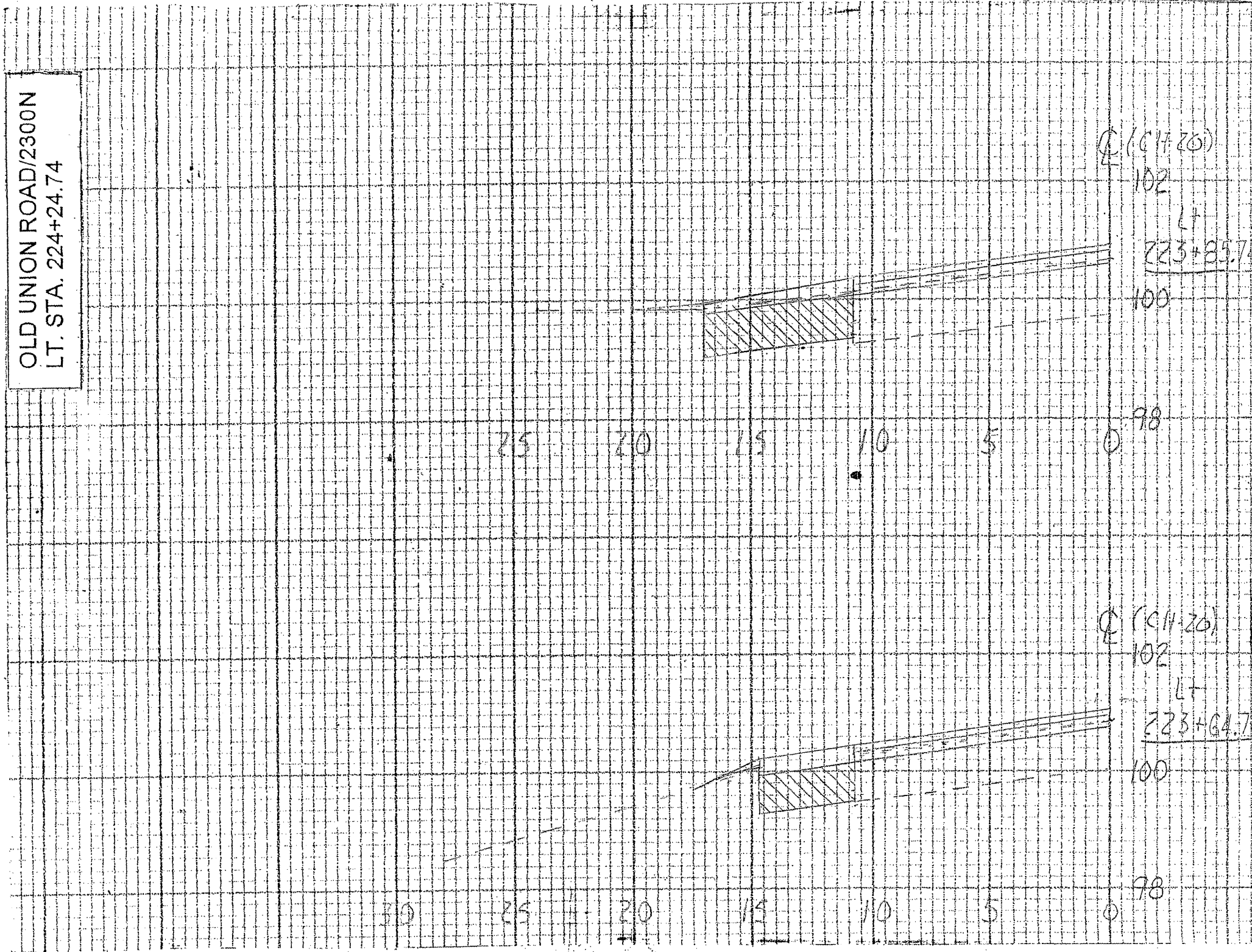
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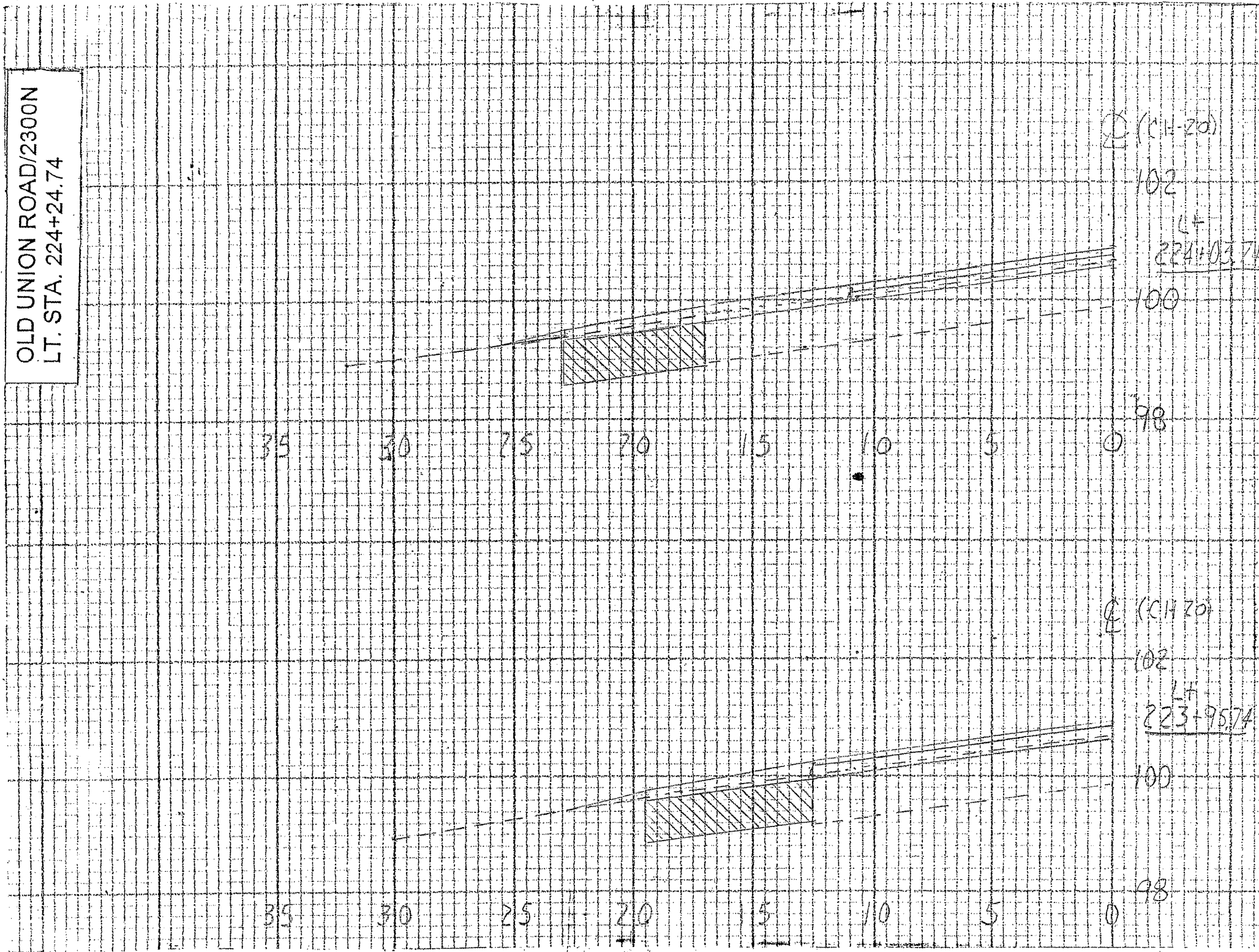


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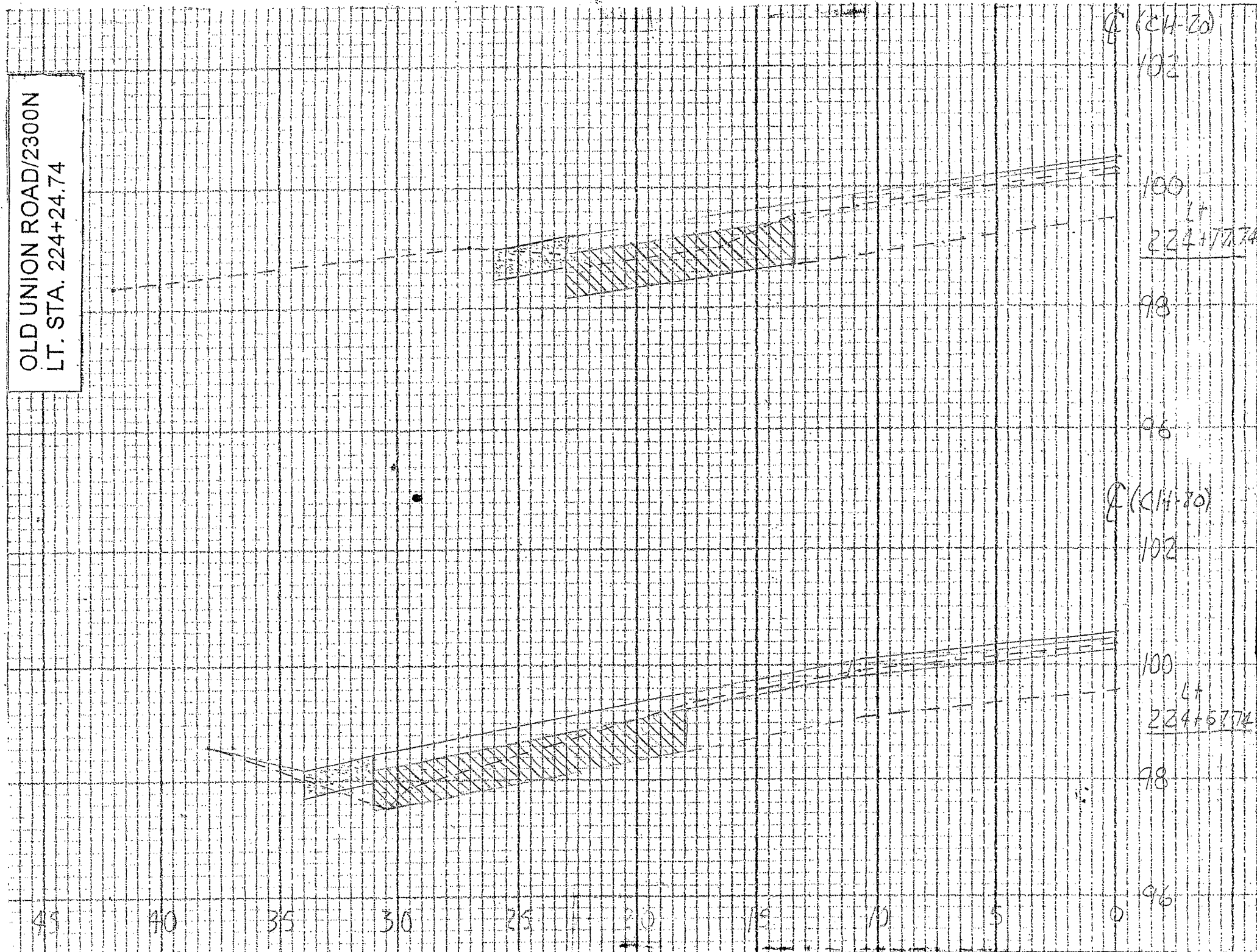


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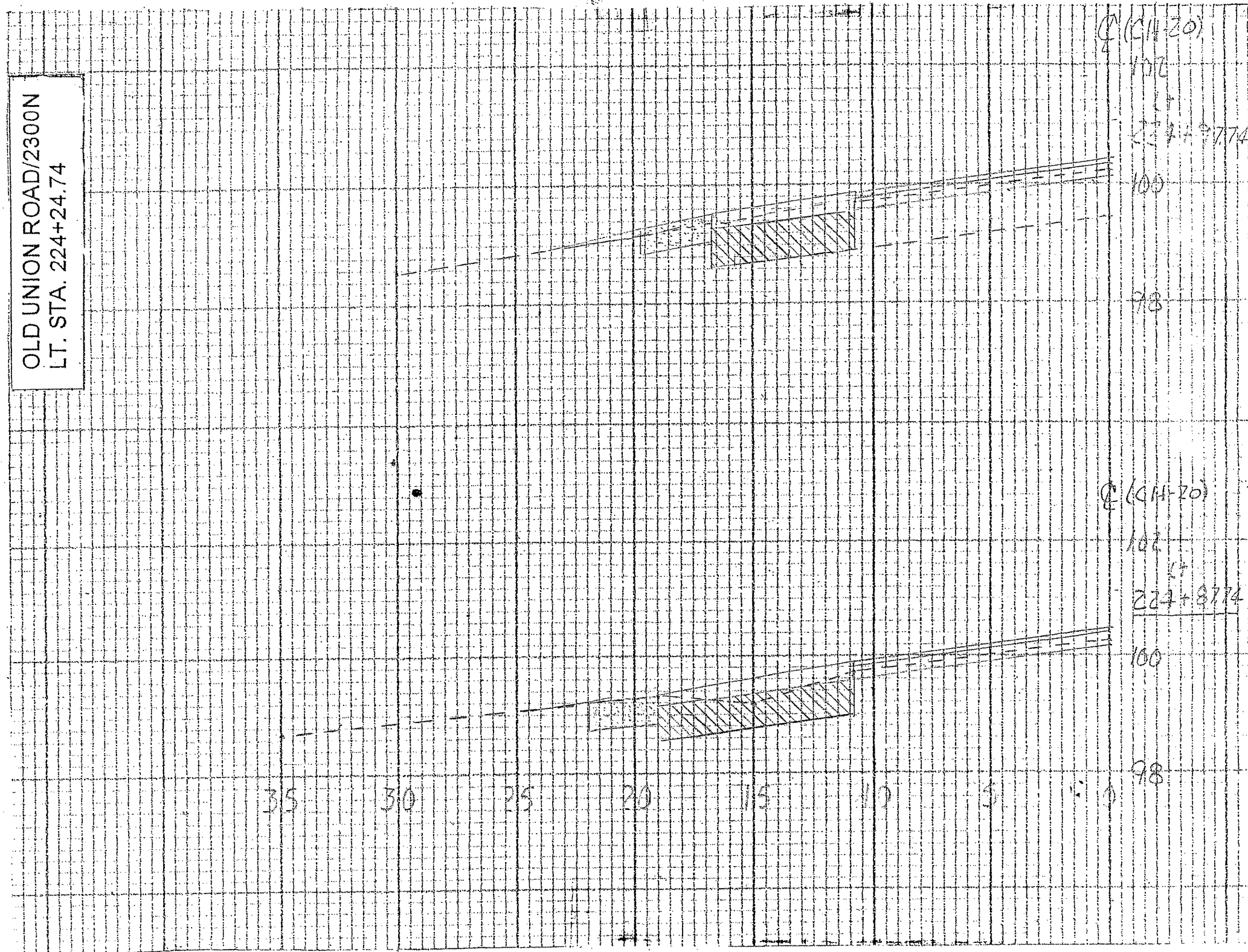
(C.H. 20)
102
100
98
96
(C.H. 20)
102
100
98
96

45 40 35 30 25 20 15 10 5 0

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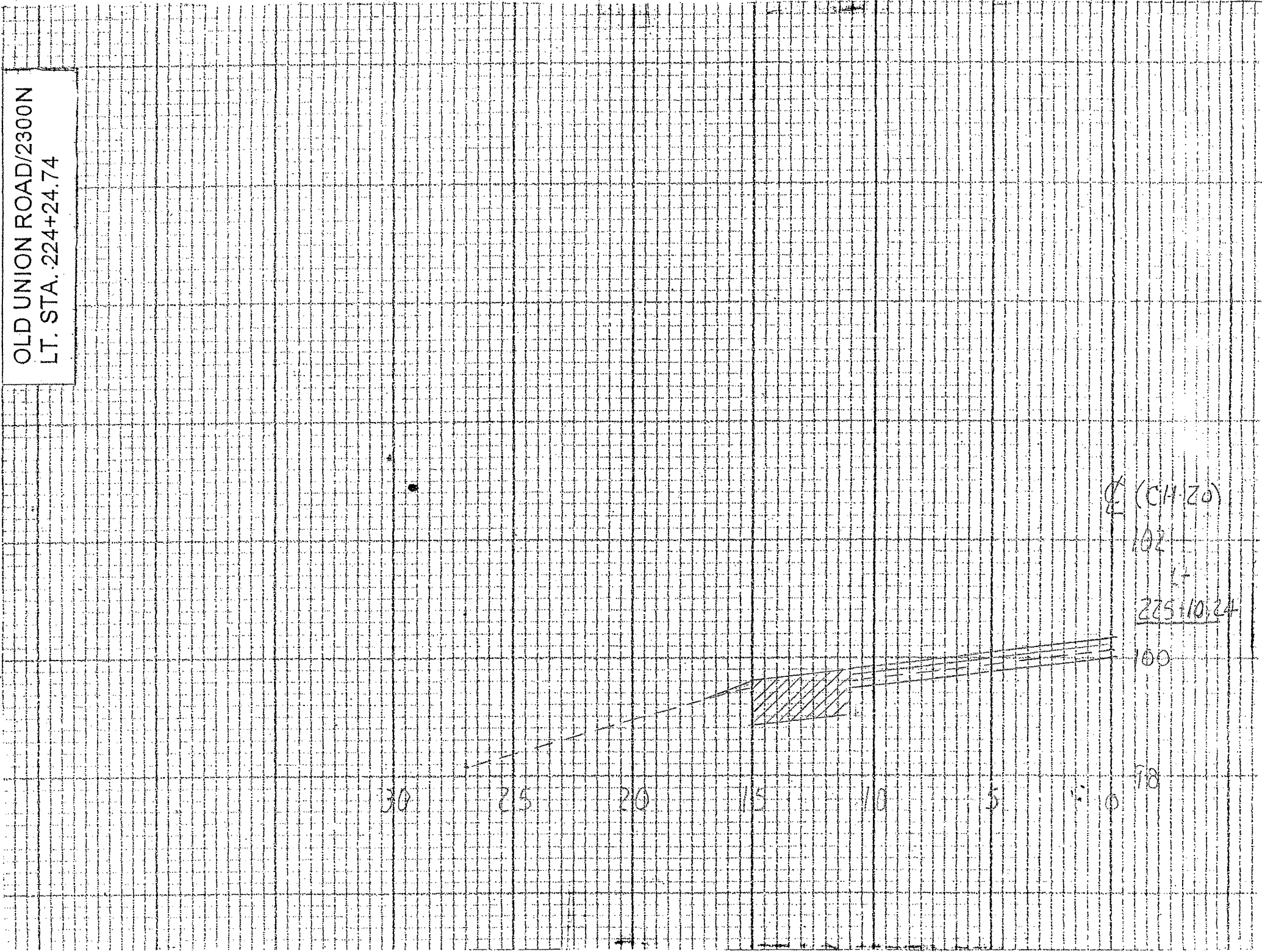
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