

STATE OF MINNESOTA  
DEPARTMENT OF HIGHWAYS  
CONSTRUCTION PLAN FOR CENTERVILLE ROAD

**County State Aid Highway No. 21**

Between HERITAGE STREET And MAIN STREET

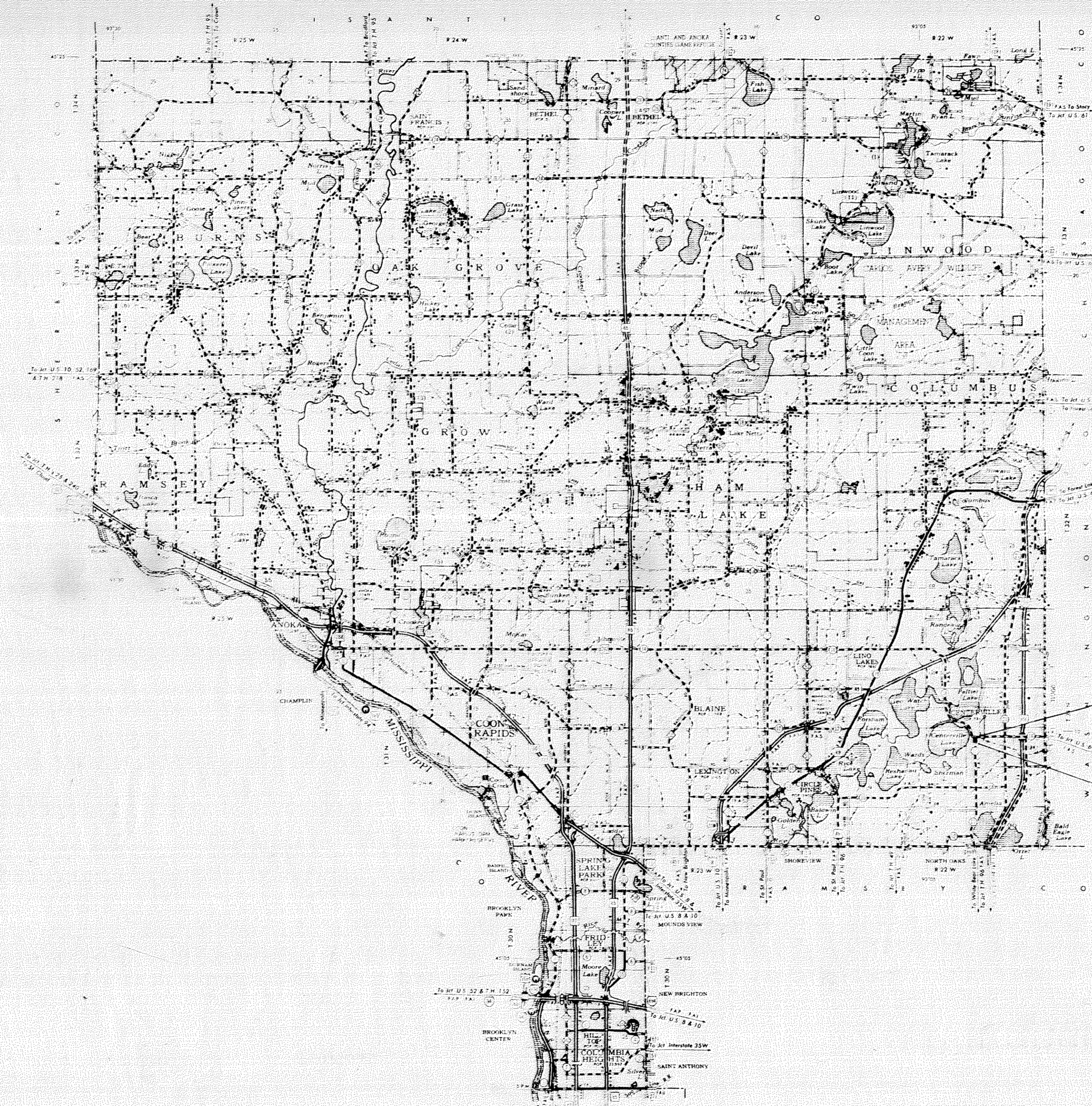
A POINT ALONG THE WESTERLY LINE, 692' SOUTH OF THE NW COR. OF THE SE 1/4 OF THE NW 1/4, SEC. 23, T.31, R.22. To N.W. 1/4, SEC. 23, T.31, R.22.

GROSS LENGTH 692 FEET 0.13 MILES  
BRIDGES LENGTH \_\_\_\_\_ FEET \_\_\_\_\_ MILES  
EXCEPTIONS LENGTH \_\_\_\_\_ FEET \_\_\_\_\_ MILES  
NET LENGTH 692 FEET 0.13 MILES

INDEX OF SHEETS  
Sheet No. 1 Title Sheet & Layout Map  
No. 2 Est. Quantities & Typical Sec.  
No. 3 To 4 Plan & Profile  
No. 5 To 5 Cross Sections

CONVENTIONAL SIGNS

- STATE LINE
- COUNTY LINE
- TOWNSHIP OR RANGE LINE
- SECTION LINE
- QUARTER LINE
- SUBSECTION LINE
- RIGHT OF WAY LINE
- PRESENT RIGHT OF WAY LINE
- CONTINUED ACCESS LINE
- PROPERTY LINE (EXCEPT LAND LINES)
- IMAGED PLATTED PROPERTY
- CORPORATE OR CITY LIMITS
- TRUNK HIGHWAY CENTER LINE
- RETAINING WALL
- RAILROAD
- RAILROAD RIGHT OF WAY LINE
- RIVER OR CREEK
- DRY RUN
- DRAINAGE DITCH
- ELECTRIC POWER LINE
- TELEPHONE OR TELEGRAM LINE
- JOINT TELEPHONE AND POWER
- CONDUIT
- TELEPHONE CABLE-AERIAL
- TELEPHONE CABLE UNDERGROUND
- POWER CABLE UNDERGROUND
- GAS MAIN
- CULVERT
- DEEP INLET
- GUARD RAIL
- BARRIED WIRE FENCE
- WOODEN WIRE FENCE
- CHAIN LINK FENCE
- RAILROAD SNOW FENCE
- STONE WALL OR FENCE
- WATER PIPE
- SEWER PIPE
- DRAIN TILE
- OPENING
- HARBOR
- TIMBER
- ORCHARD
- BURSH
- NURSERY
- CATCH BASIN
- MANHOLE
- FIRE HYDRANT
- STREET LIGHT
- RAILROAD CROSSING SIGN
- RAILROAD CROSSING BELL
- ELECTRIC WARNING SIGN
- CROSSING GATE
- CATTLE GUARD
- OVERPASS (Highway Over)
- UNDERPASS (Highway Under)
- BRIDGE
- BUILDING (One Story Frame)
- F FRAME C-CONCRETE
- S STONE T-TILE
- B BRICK ST-STUCCO
- IRON PIPE OR ROD
- MONUMENT (STONE, CONCRETE, OR METAL)
- WOODEN HUB
- GRAVEL PIT
- SAND PIT
- BORROW PIT
- ROCK QUARRY
- MEANDER CORNER

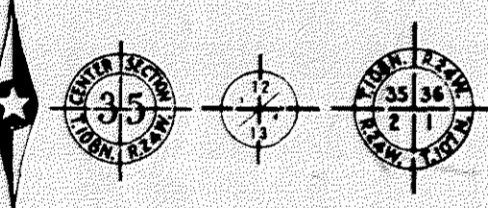


**CITY OF CENTERVILLE**

CONSTRUCTION PLAN FOR GRADING, AGGREGATE BASE, CONCRETE CURB & GUTTER & SIDEWALK, BITUMINOUS SURFACE AND STORM SEWER.

END. S.A.P. 02-621-08  
STA. 6+80

BEG. S.A.P. 02-621-08  
STA. 0+12



DESIGN DESIGNATION

ADT (CURRENT YEAR) 805  
ADT (FUTURE YEAR) 1368 20 yr  
T (HEAVY COMMERCIAL) H.C.A.D.T. LESS THAN 150  
9 Ton Design SOIL FACTOR A-6, 100%  
Design Speed 30 MPH  
Design Speed not achieved at:  
STA. \_\_\_\_\_ TO STA. \_\_\_\_\_ MPH  
STA. \_\_\_\_\_ TO STA. \_\_\_\_\_ MPH

SPECIFICATIONS

THE "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION", DATED JAN. 1, 1978 SHALL GOVERN.

MILNER W. CARLEY & ASSOCIATES

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.

*Kenneth R. Mustin*

DATE 10-18-78 REG. NO. 12679

ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES WILL BE COMPLIED WITH, IN THE CONSTRUCTION OF THIS PROJECT.

RECOMMENDED FOR APPROVAL *Paul K. Lewis* 10/24/78  
COUNTY ENGINEER

ANOKA COUNTY REG. NO. 6549

RECOMMENDED FOR APPROVAL *C.E. Michaelbaum* 11/18/78  
DISTRICT ENGINEER

RECOMMENDED FOR APPROVAL *Dimitri S. Oprea* 11-28 1978

APPROVED *[Signature]* 11/29 1978  
STATE AID ENGINEER

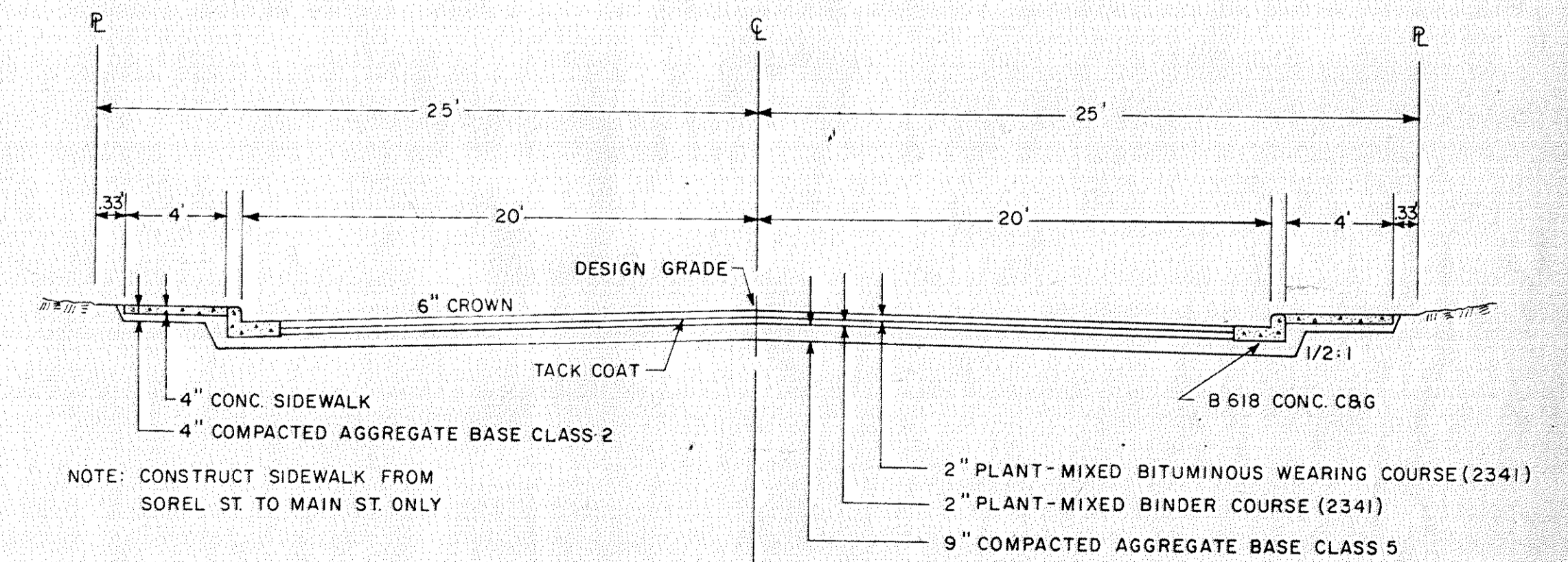
Minn. Proj. No. \_\_\_\_\_ County Proj. No. \_\_\_\_\_  
State Proj. No. \_\_\_\_\_ S.A.P. 02-621-08

STATEMENT OF ESTIMATED QUANTITIES

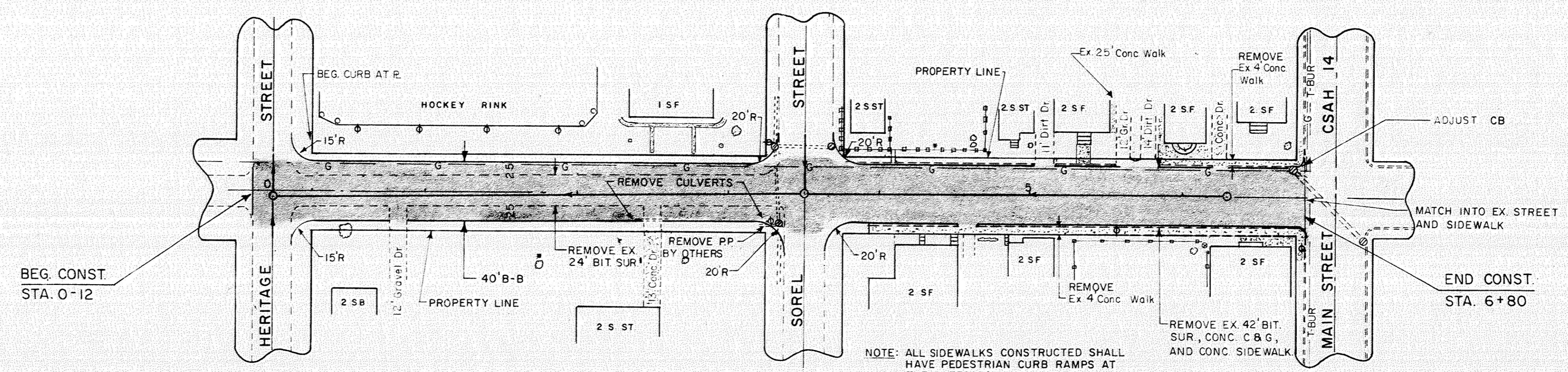
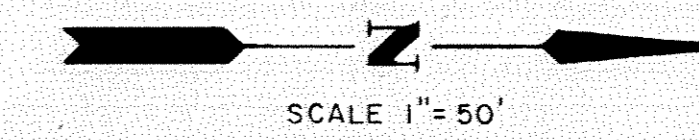
ITEM NO.	ITEM	UNIT	TOTAL ESTIMATED QUANTITIES	TOTAL FINAL QUANTITIES
2104.501	REMOVE CONC CURB & GUTTER	L.F.	600	
2104.501	REMOVE BITUMINOUS SURFACE	S.Y.	2550	
2104.501	REMOVE CONC SIDEWALKS	L.F.	600	
2104.501	REMOVE CATCH BASIN	EACH	1	
2104.501	REMOVE C.M. PIPE	L.F.	75	
2105.501	COMMON EXCAVATION	C.Y.	1480	
2105.525	TOPSOIL BORROW	C.Y.	45	
2211.501	AGGREGATE BASE, CLASS 5	TON	1700	
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	44	
2341.508	WEARING COURSE MIXTURE	TON	370	
2341.510	BINDER COURSE MIXTURE	TON	370	
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	155	
2501.515	21" R.C. PIPE APRON	EACH	1	
2503.511	12" R.C. PIPE SEWER, CLASS 4	L.F.	56	
2503.511	15" R.C. PIPE SEWER, CLASS 3	L.F.	70	
2503.511	18" R.C. PIPE SEWER, CLASS 3	L.F.	30	
2503.511	21" R.C. PIPE SEWER, CLASS 3	L.F.	675	
2506.508	CONSTRUCT MANHOLES, DESIGN A	EACH	2	
2506.509	CONSTRUCT CATCH BASINS, DESIGN C	EACH	6	
2506.516	CASTING ASSEMBLIES	EACH	10	
2506.521	INSTALL CASTINGS	EACH	10	
2506.522	ADJUST FRAME AND RING CASTINGS	EACH	4	
2511.502	HAND-PLACED RIPRAP CLASS A	C.Y.	4	
2521.501	4" CONCRETE SIDEWALK	S.F.	2504	
2531.501	CONCRETE CURB & GUTTER DESIGN B618	L.F.	1360	
2575.505	SODDING	S.Y.	350	

STANDARD DETAIL PLATES

0001A	SPECIFICATION REFERENCE TO STANDARD PLATES
0002A	SPECIFICATION REFERENCE TO STANDARD PLATES
0003A	SPECIFICATION REFERENCE TO STANDARD PLATES
3000G	REINFORCED CONCRETE PIPE
3006B	GASKET JOINT FOR R.C. PIPE
3100F	CONCRETE APRON FOR R.C. PIPE
3133A	RIPRAP AT R.C.P. OUTLETS
4000G	MANHOLE
4002D	CATCH BASIN
4101B	RING CASTING FOR MANHOLE OR CATCH BASIN
4110D	COVER CASTING FOR MANHOLE
4126E	CATCH BASIN FRAME CASTING
4149C	GRATE CASTING FOR CATCH BASIN
4161E	CURB BOX CASTING FOR CATCH BASIN
7035J	CONCRETE WALK & CURB RETURNS AT ENTRANCES
7036B	PEDESTRIAN CURB RAMP
7100E	CONCRETE CURB AND GUTTER
8000F	STANDARD BARRICADES



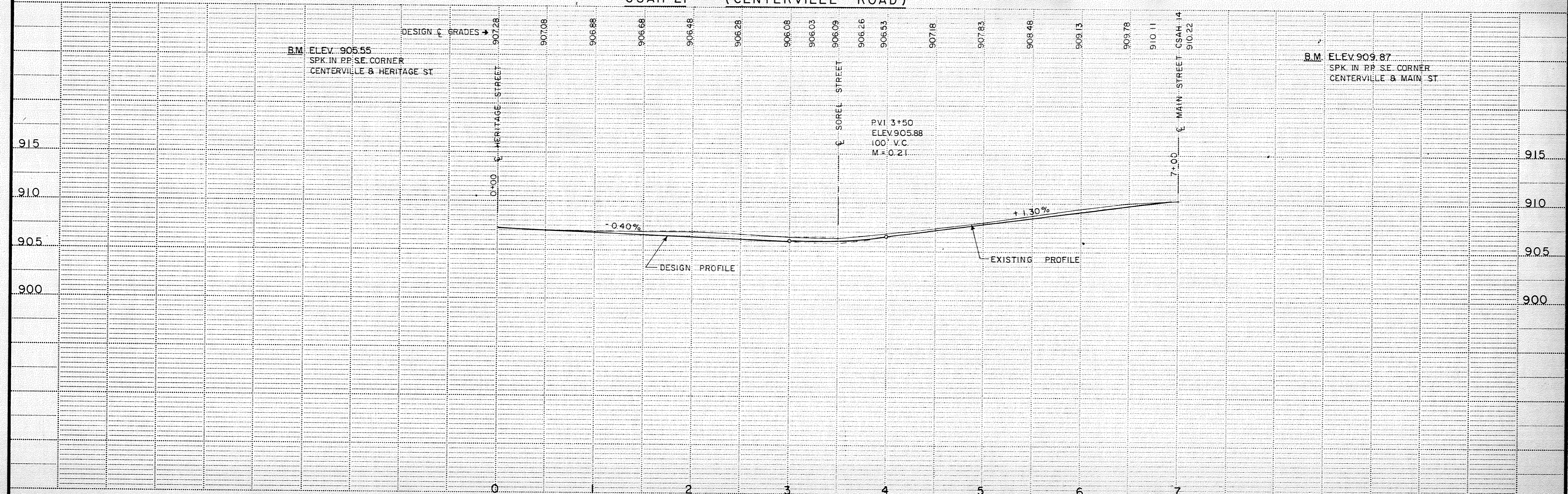
TYPICAL SECTION  
(FROM HERITAGE TO MAIN STREET)



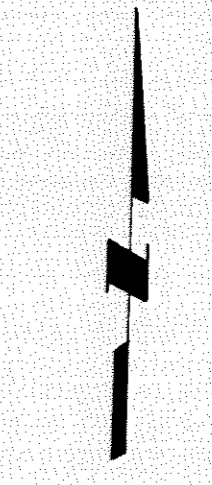
NOTE: ALL SIDEWALKS CONSTRUCTED SHALL HAVE PEDESTRIAN CURB RAMPS AT THE INTERSECTIONS.  
 NOTE: THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

- CONSTRUCTION ON CENTERVILLE ROAD**
1. CONSTRUCT CONC. C & G (B618) BOTH SIDES HERITAGE TO MAIN ST.
  2. CONSTRUCT 4' WIDE CONC. SIDEWALK BOTH SIDES SOREL TO MAIN ST.
  3. CONSTRUCT 40' WIDE STREET SURFACE FROM HERITAGE TO MAIN ST.

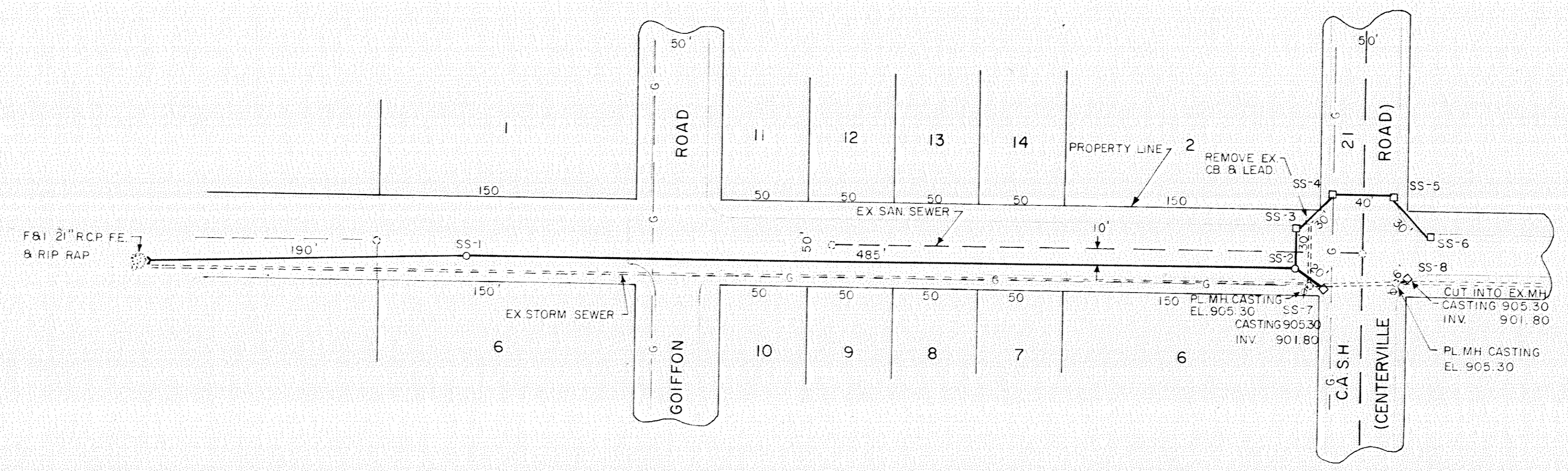
CSAH 21 (CENTERVILLE ROAD)



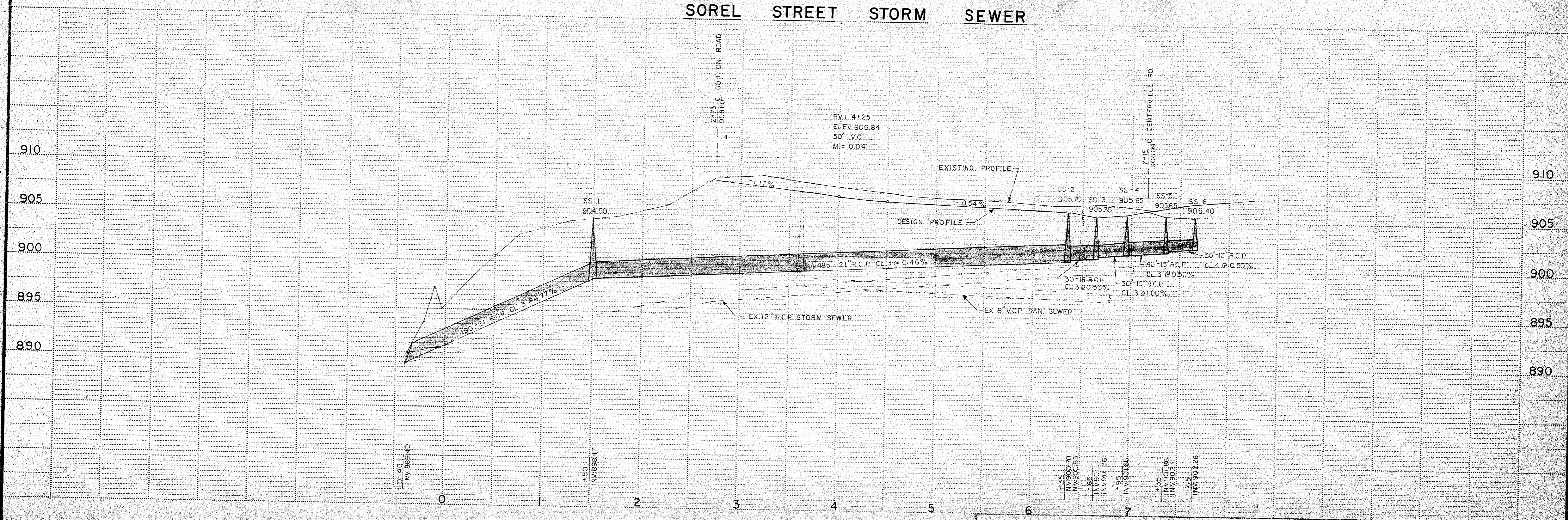
SINGLE PLAN, DOTTED  
 H. A. REESE CO., MANUFACTURERS OF PAPE



SCALE 1"=50'

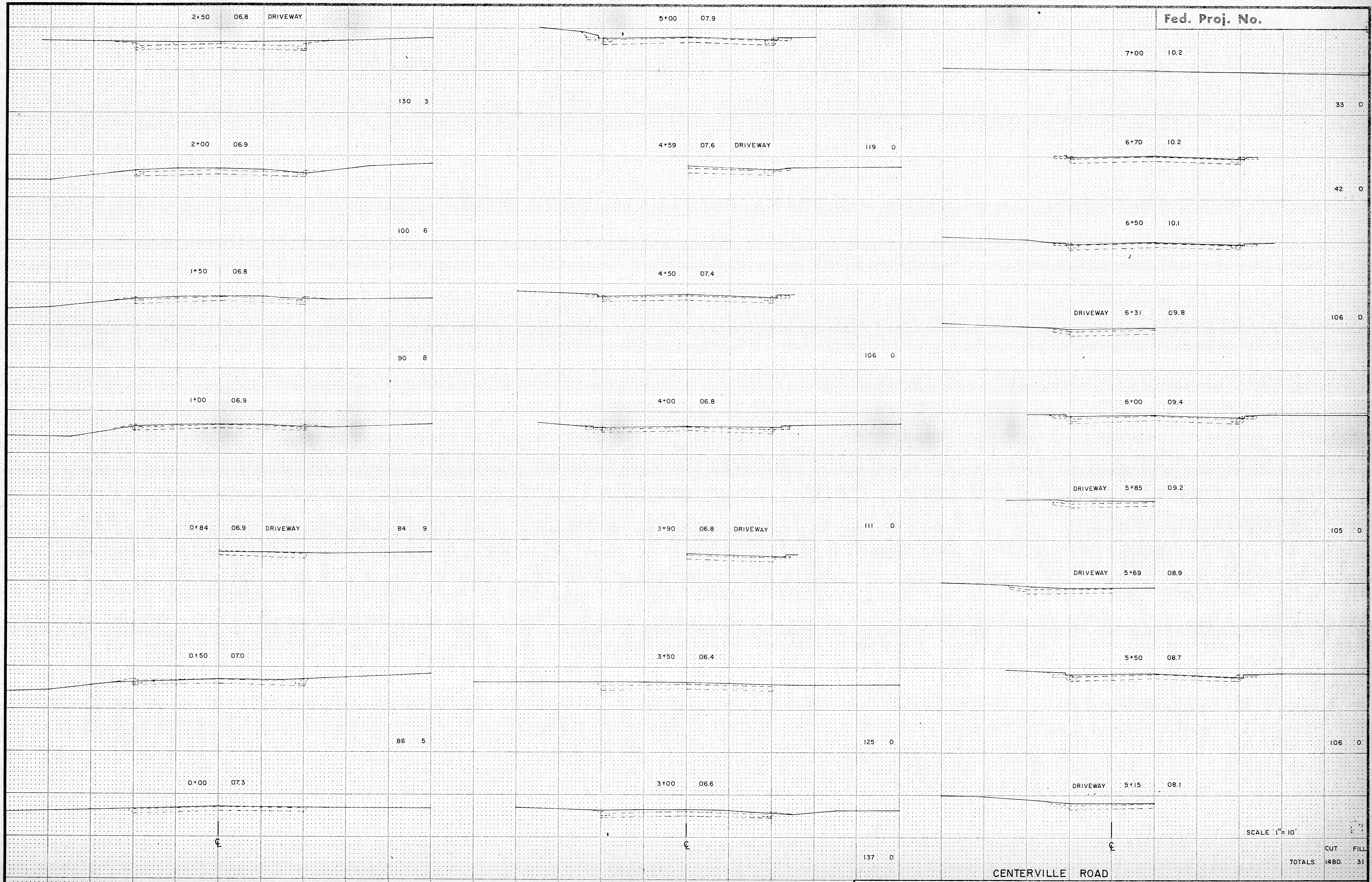


### SOREL STREET STORM SEWER



SINGLE PLAN, DOTTED  
A. A. BROWN CO. - MINNEAPOLIS, ST. PAUL

Fed. Proj. No.



FUNCTIONAL CROSS SECTION - OPEN NOTED  
H. A. ROGERS CO. WARRENDALE, ST. PAUL

SCALE 1" = 10'

CENTERVILLE ROAD

TOTALS CUT 1480.00 FILL 31.00

State Proj. No. 02-621-08

Sheet No. 5 of 26 Sheets

# CITY OF CENTERVILLE

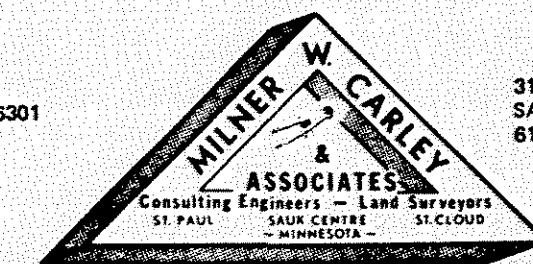
ANOKA COUNTY

MINNESOTA

## STREET IMPROVEMENT NO. 1

MAYOR                   WALTER PRACHAR  
COUNCILMEN       LEON R. L'ALLIER  
                          FRANCIS BURQUE  
                          ELMER MURRAY  
                          FLOYD LASKA  
CLERK                   MRS. LUANN PRACHAR

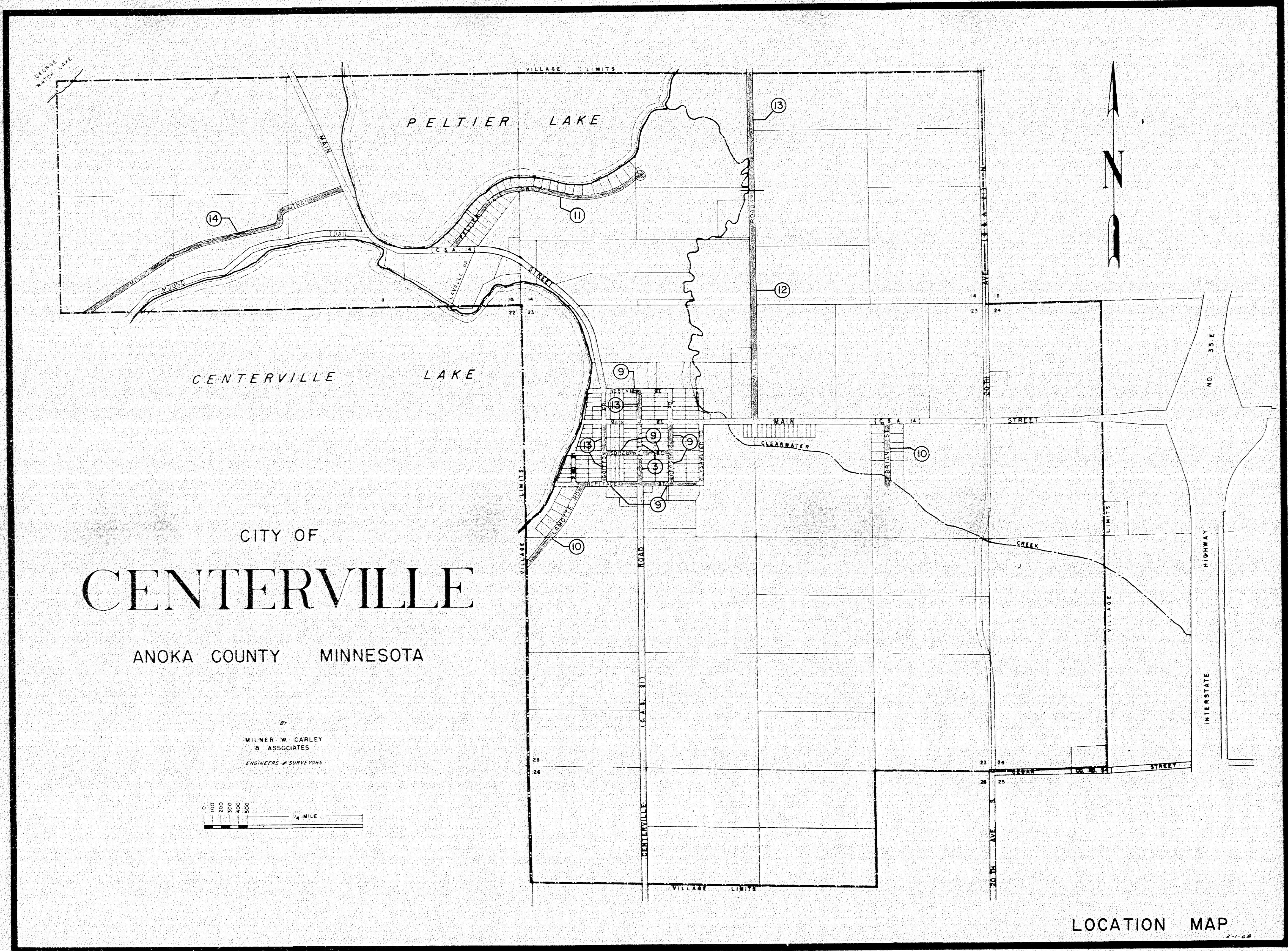
18th 4th AVE. S.E.  
ST. CLOUD, MN 56301  
612-251-7751



314 OAK ST.  
SAUK CENTRE, MN 56378  
612-352-3864

500 W. HWY. 96, ST. PAUL, MN 55112 612-484-3301

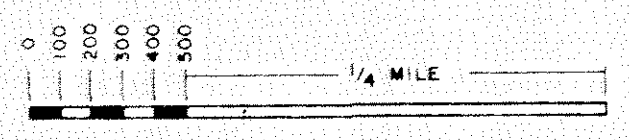
SURVEY BY		REVISIONS
DESIGNED BY <i>K.M.</i>		
DRAWN BY <i>R.K., K.M.</i>		
CHECKED BY	<i>Harold R. Muntz</i>	
SHEET 6 OF 26 SHEETS	11-10-78 12-4-79	JOB NO. 77-5



CITY OF  
**CENTERVILLE**

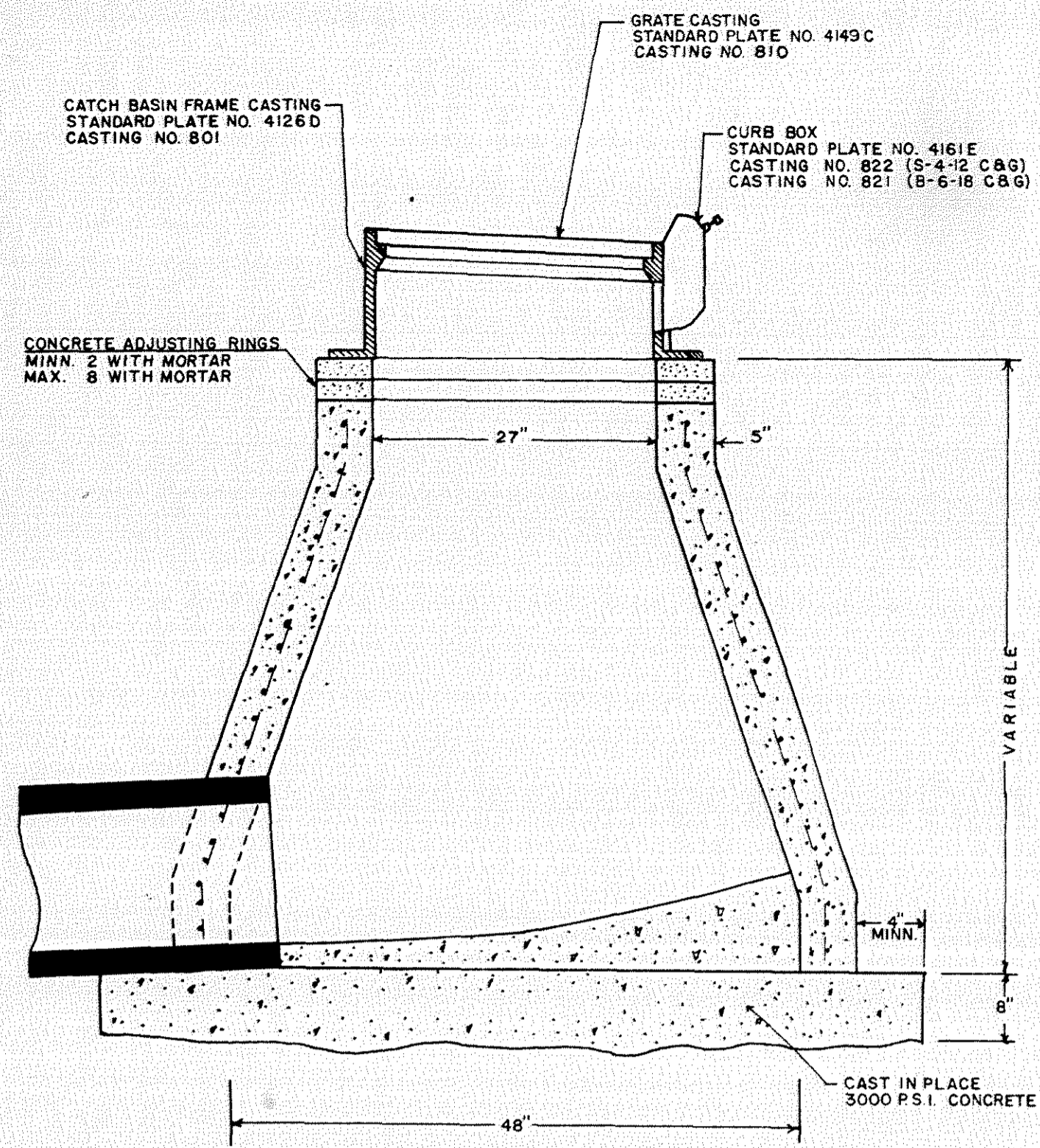
ANOKA COUNTY MINNESOTA

BY  
 MILNER W. CARLEY  
 & ASSOCIATES  
 ENGINEERS & SURVEYORS

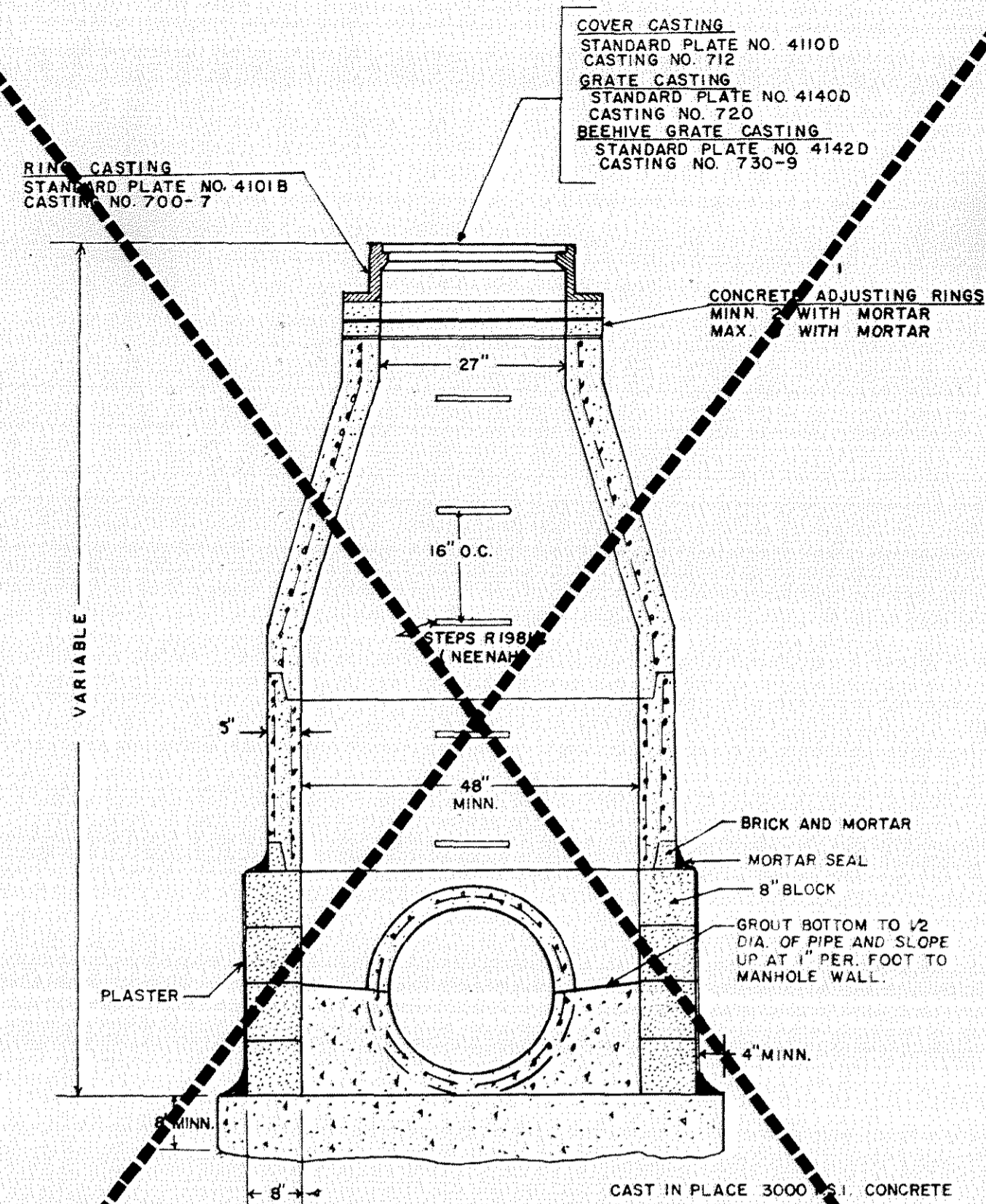


LOCATION MAP

*Forrest R. Meier*  
 11-10-78 12679

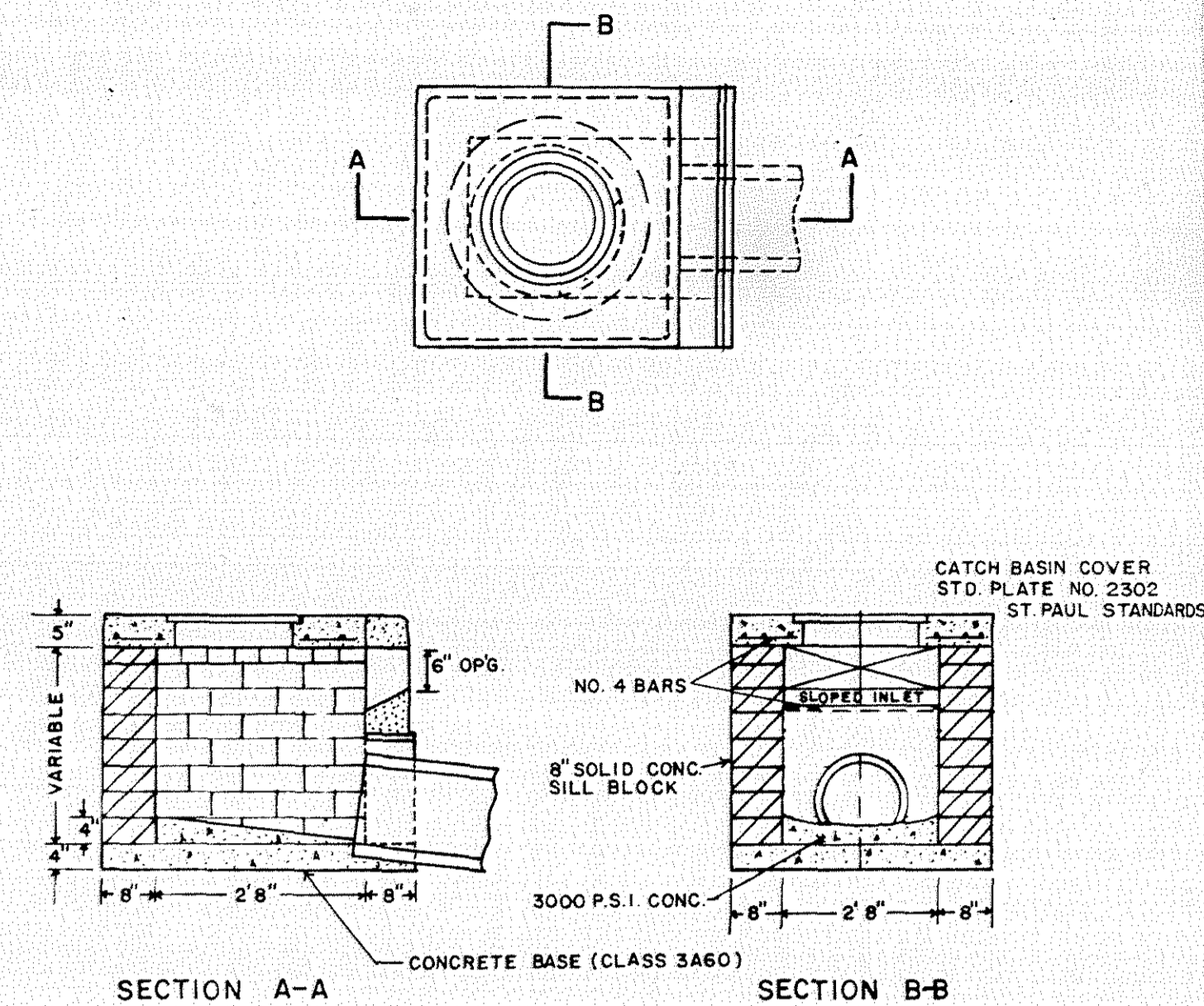


STANDARD CATCH BASIN DETAIL  
DESIGN "C" OR "G"



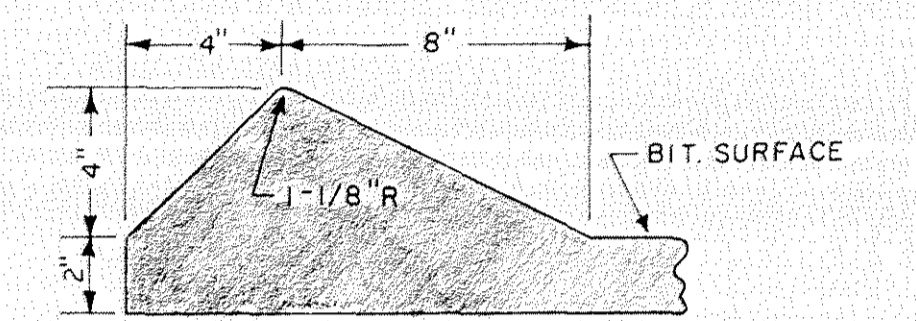
DESIGN "A" OR "F"  
TO BE USED FOR 24" DIA. PIPE OR  
LARGER

STANDARD MANHOLE DETAIL

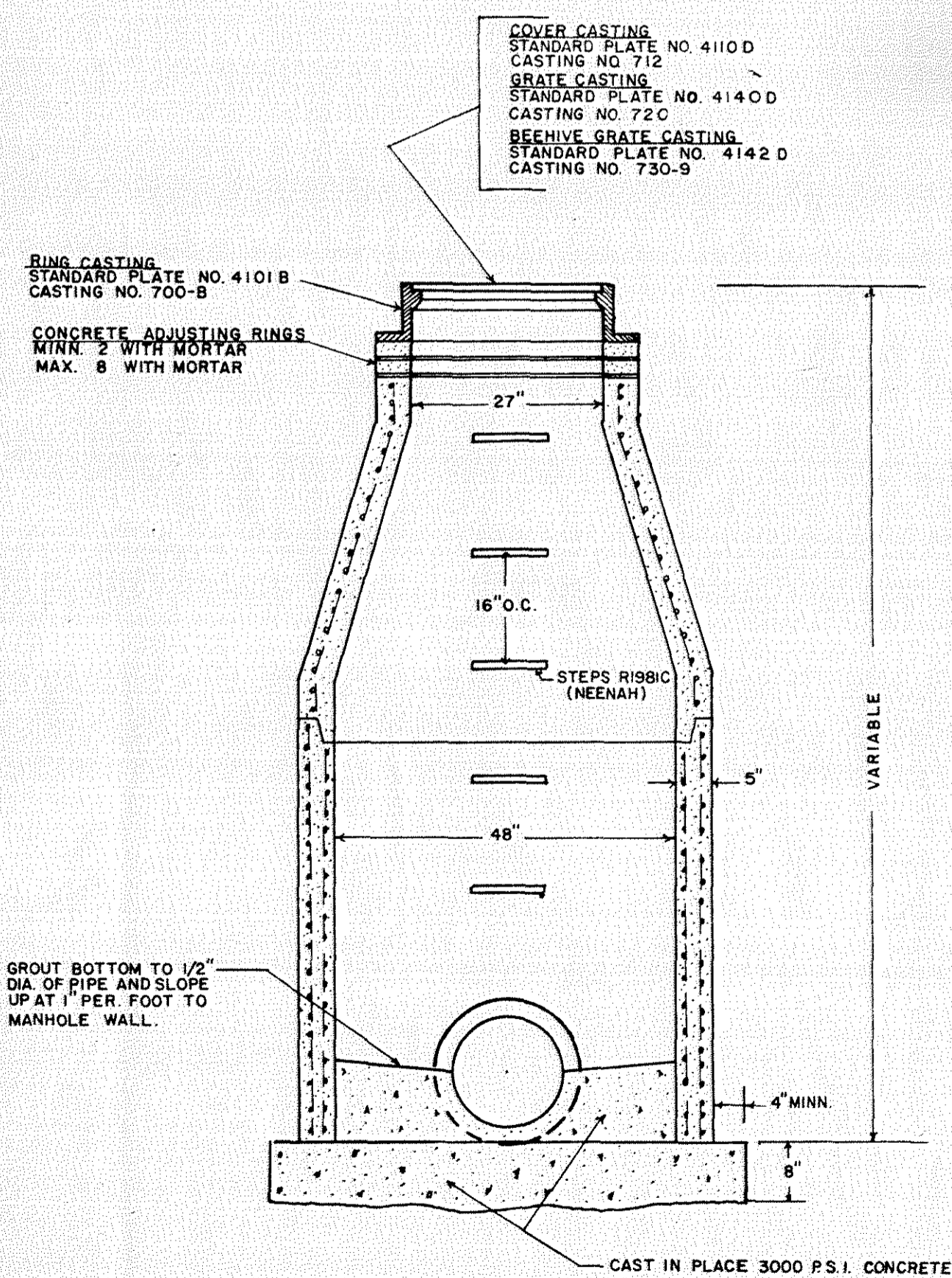


(HERITAGE ROAD & PELTIER DRIVE)

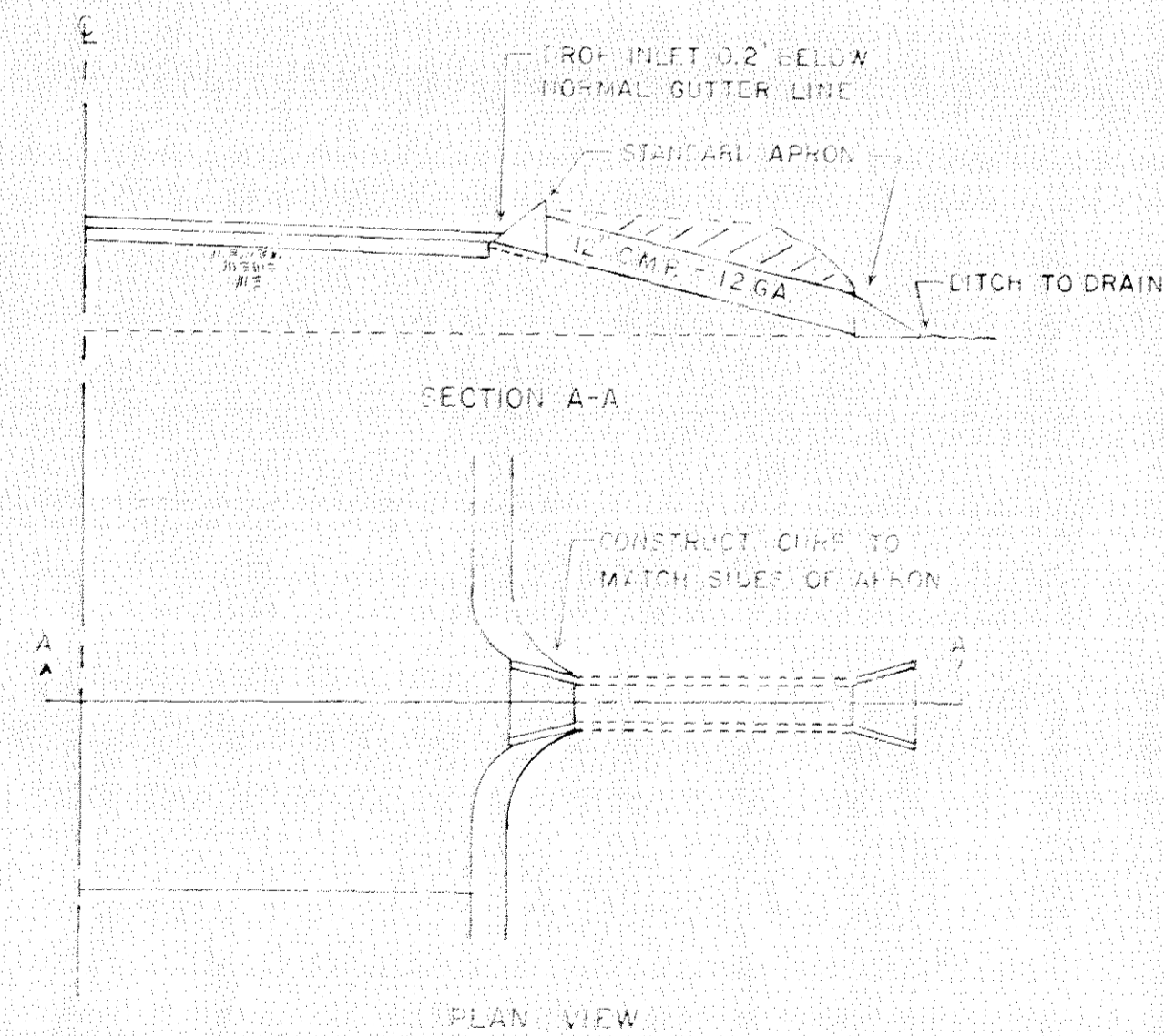
CATCH BASIN DETAIL



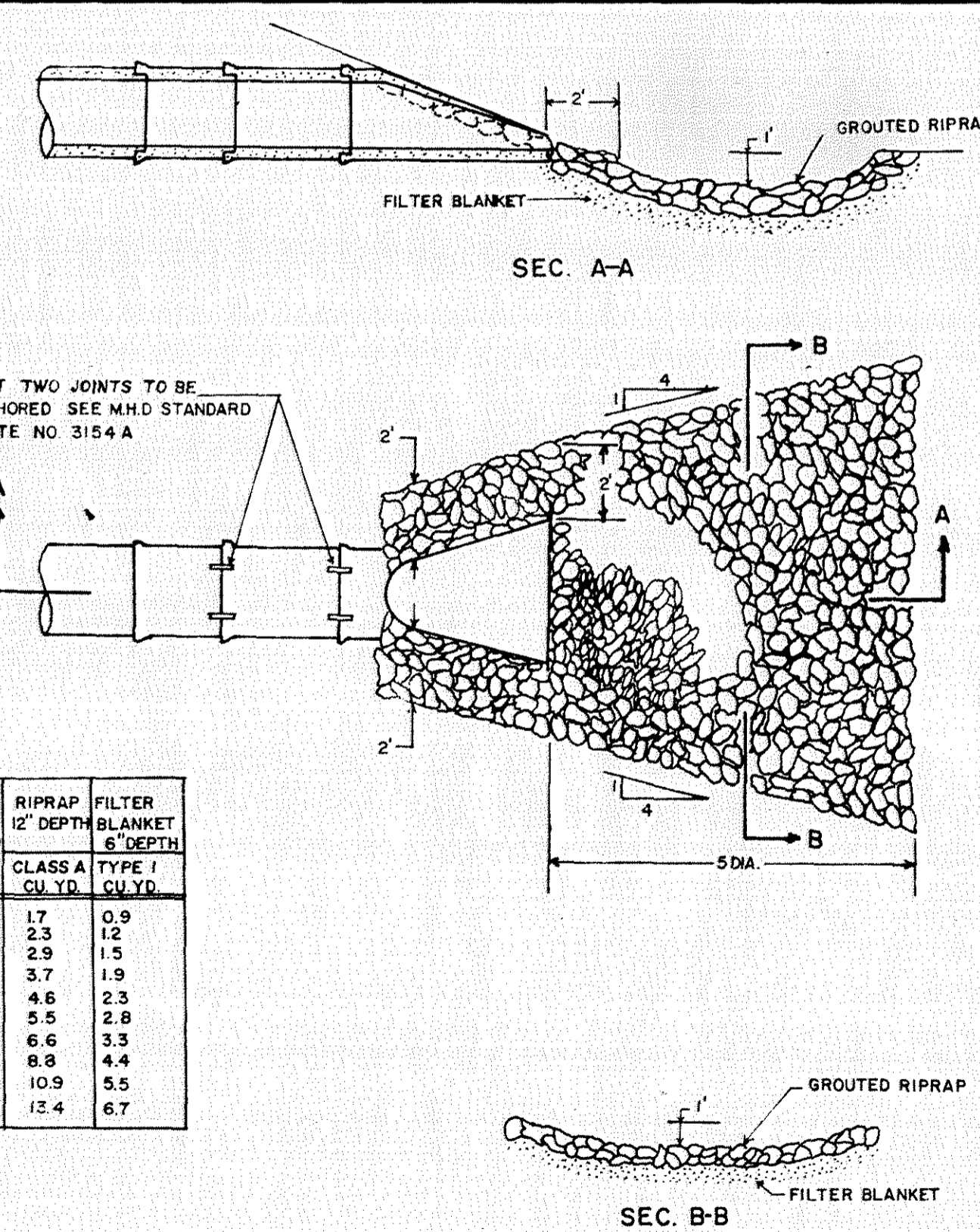
BIT CURB DETAIL  
(NO SCALE)



STANDARD MANHOLE DETAIL  
DESIGN "A" OR "F"



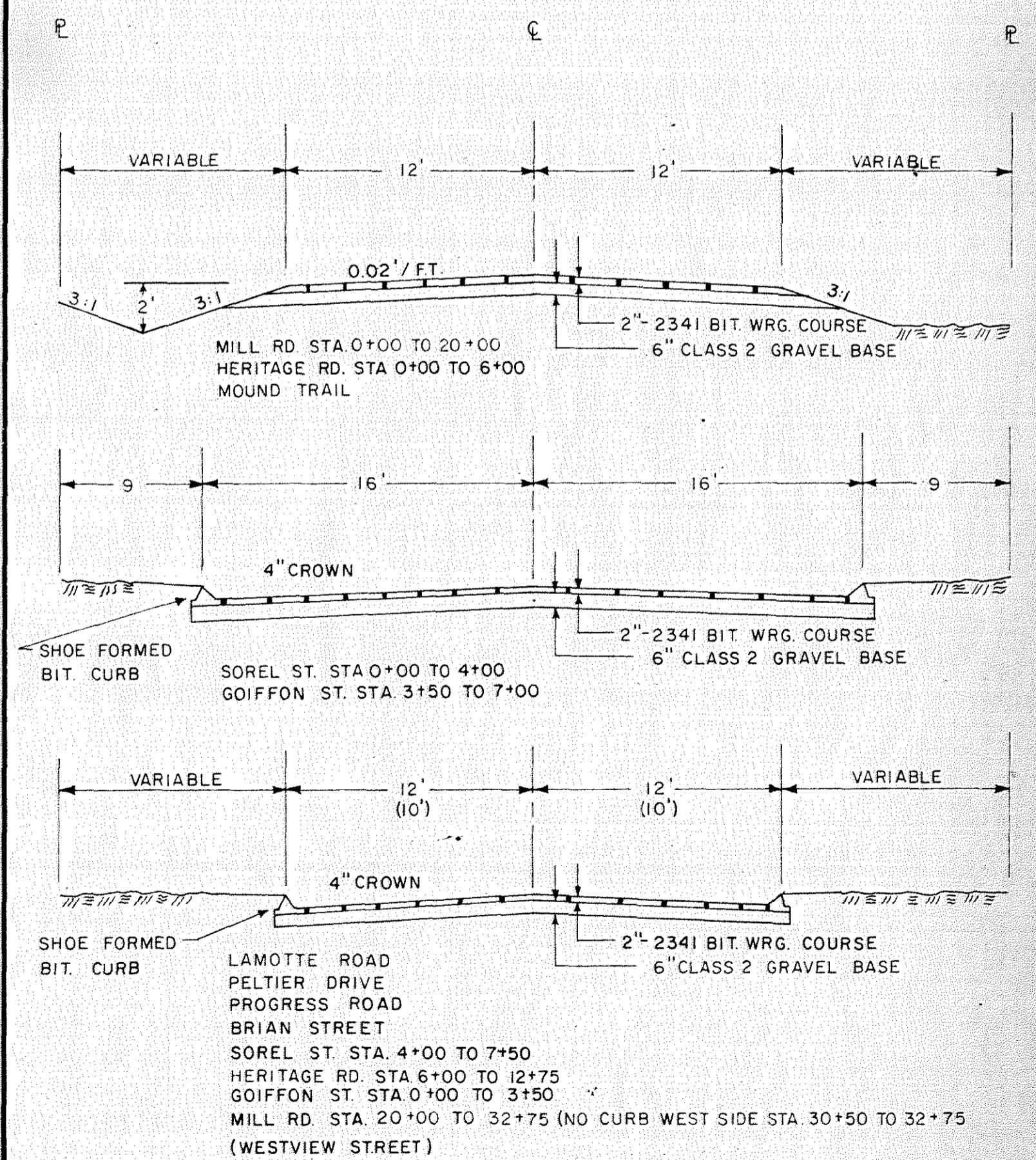
SHOULDER DRAIN DETAIL



DIAM. ROUND PIPE	RIPRAP		FILTER BLANKET	
	CLASS	DEPTH	TYPE I	DEPTH
	CU YD.	CU YD.	CU YD.	CU YD.
12"	1.7	0.9		
15"	2.3	1.2		
18"	2.9	1.5		
21"	3.7	1.9		
24"	4.6	2.3		
27"	5.5	2.8		
30"	6.6	3.3		
36"	8.8	4.4		
42"	10.9	5.5		
48"	12.4	6.7		

REFERENCE  
M.H.D. STAN. PLATE  
NO. 3153A

RIPRAP FLARED END SECTION DETAIL

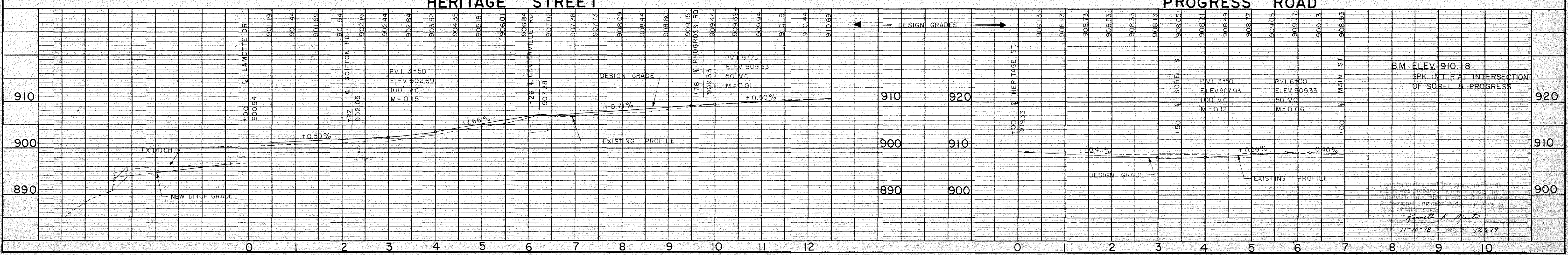
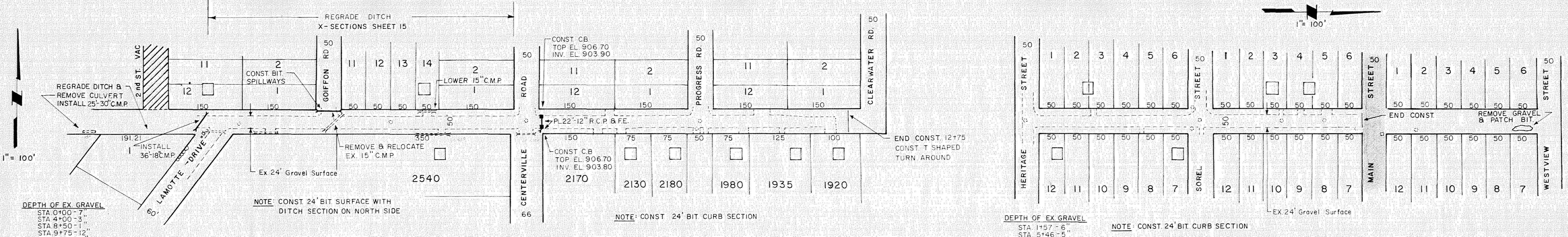
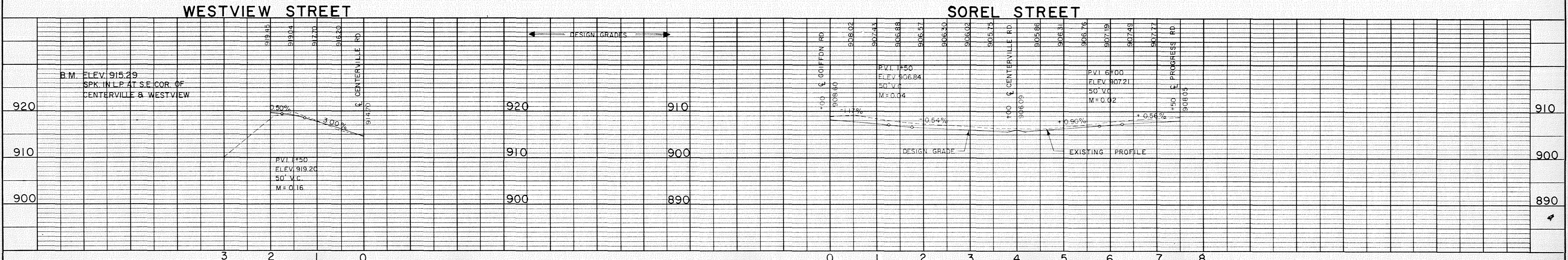
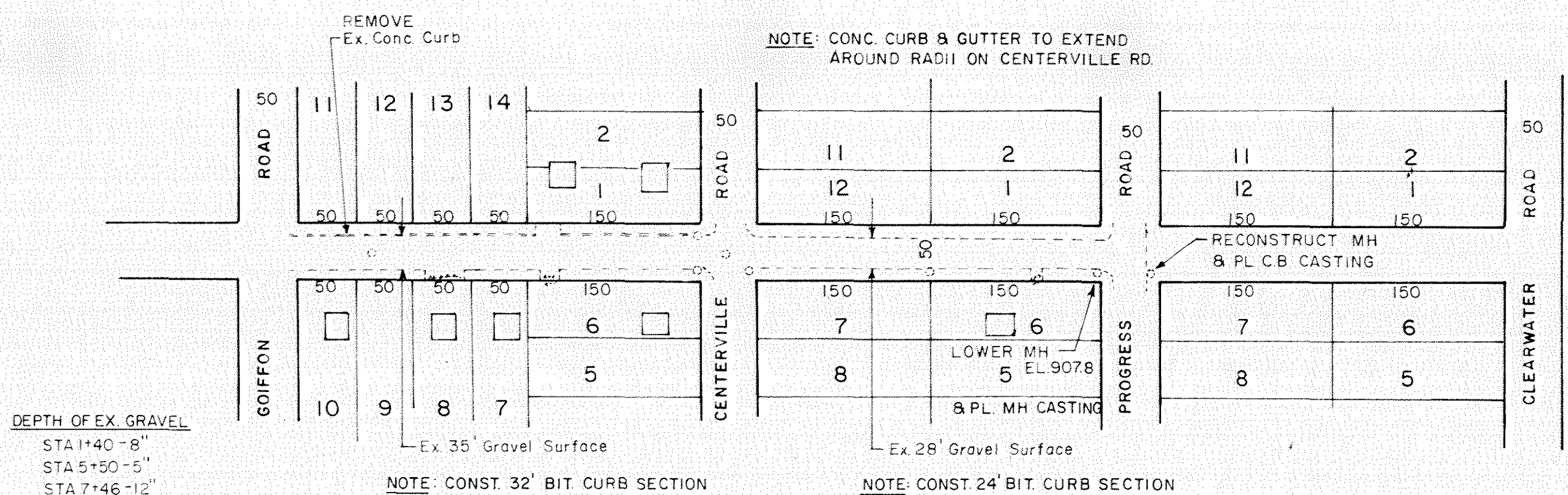
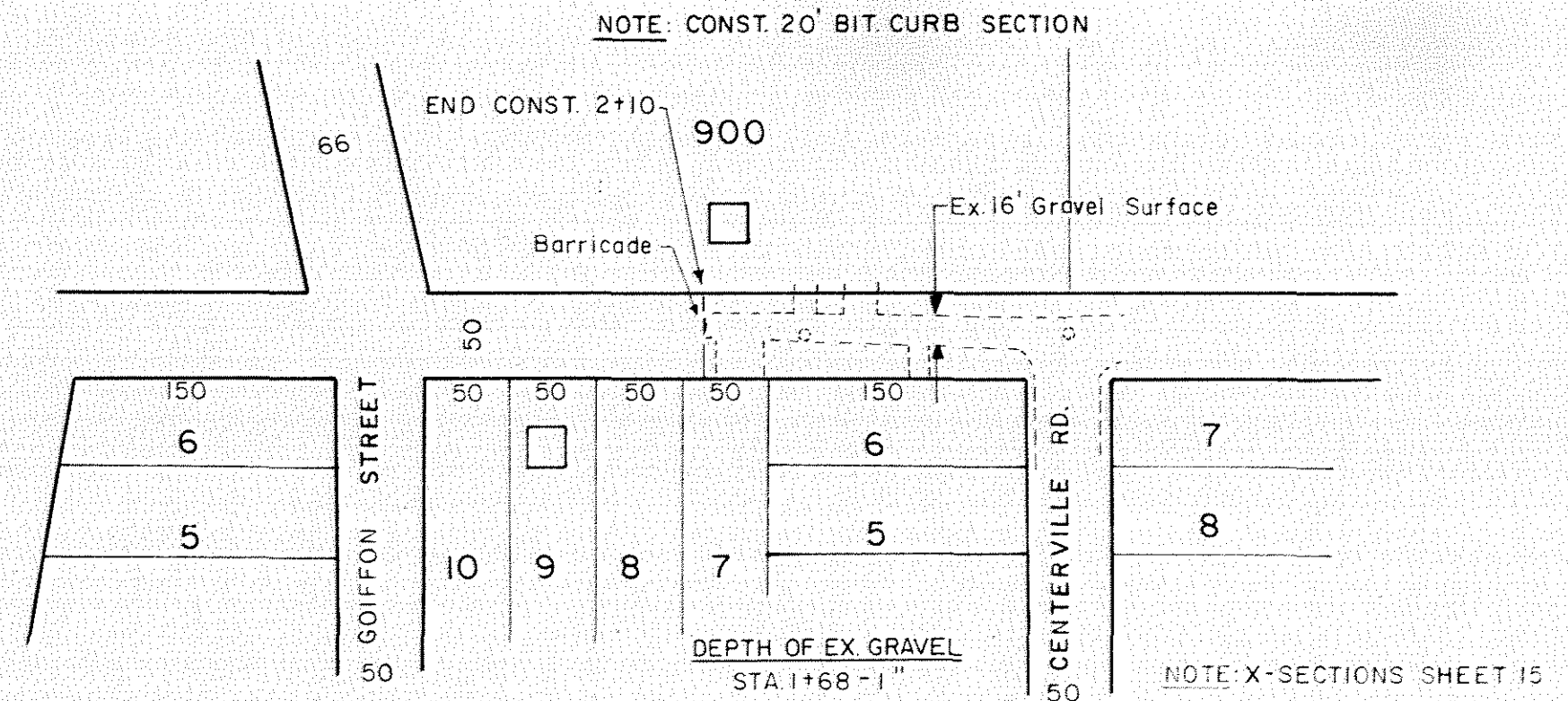


STREET DETAILS  
(NO SCALE)



DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEY: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 NO. \_\_\_\_\_

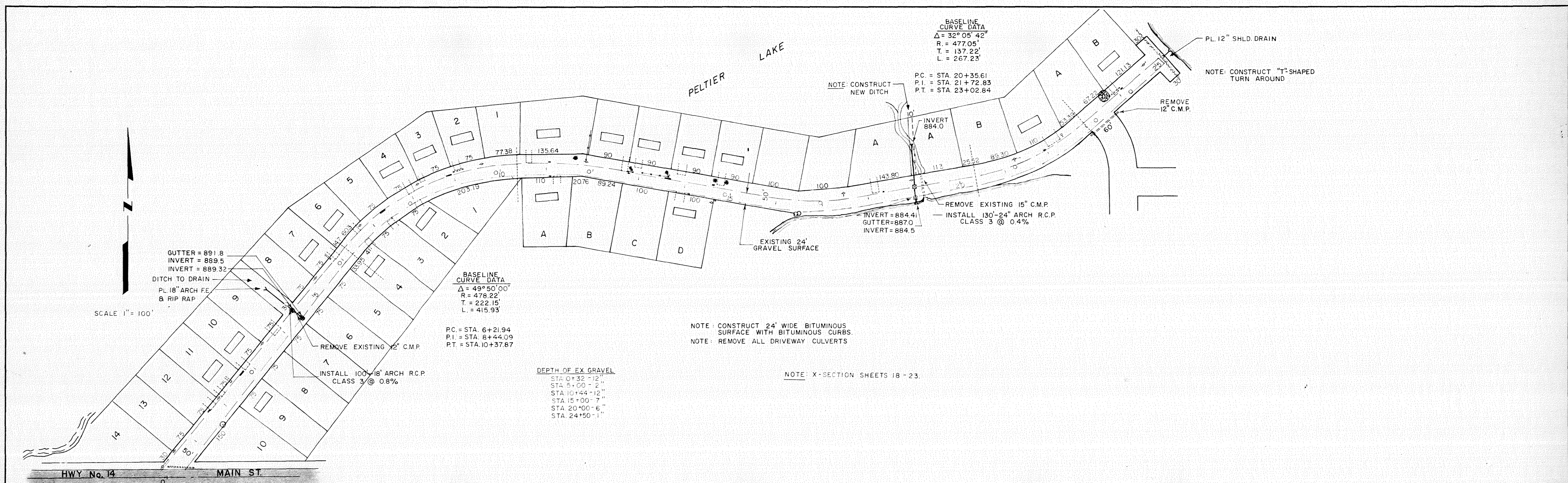
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 NO. \_\_\_\_\_



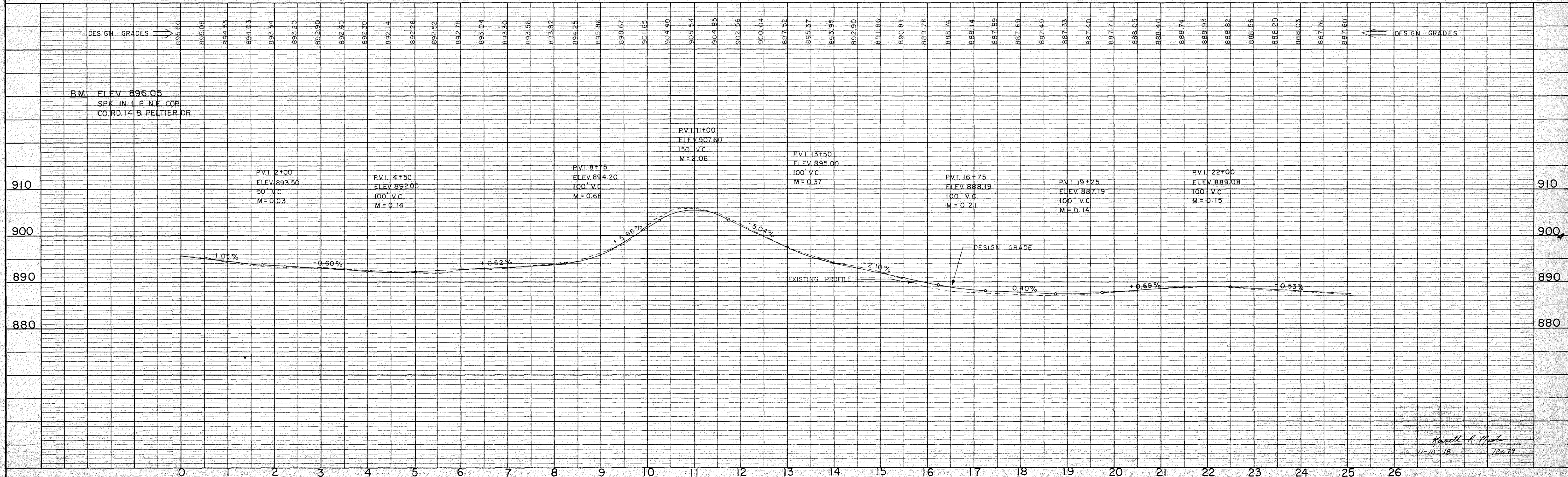


DATE	
BY	
REVISIONS	
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DATE	
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REVISIONS	
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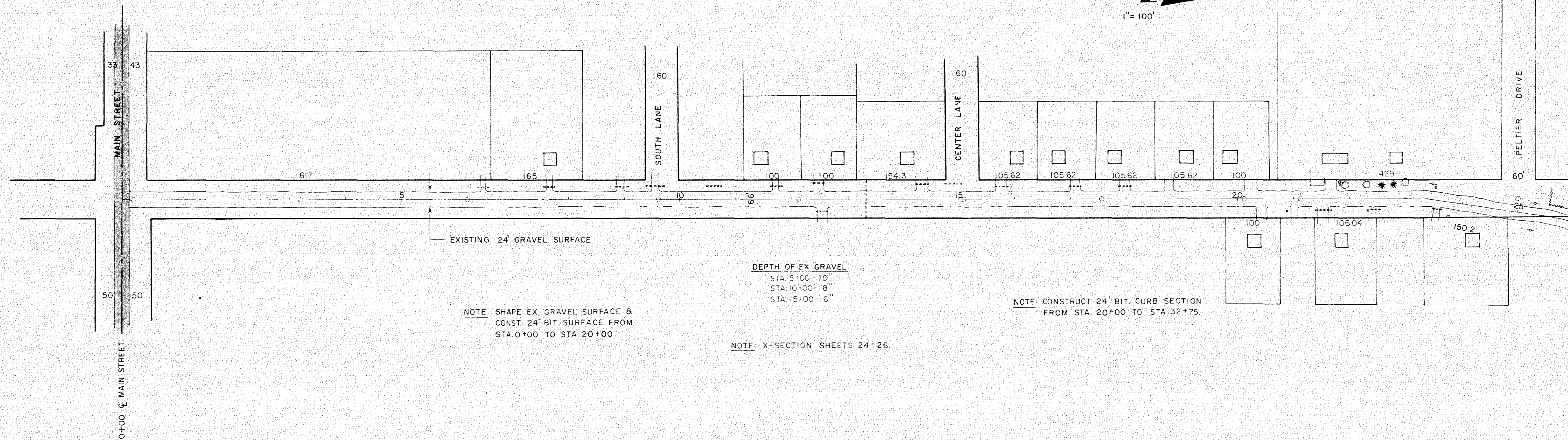


**PELTIER DRIVE**



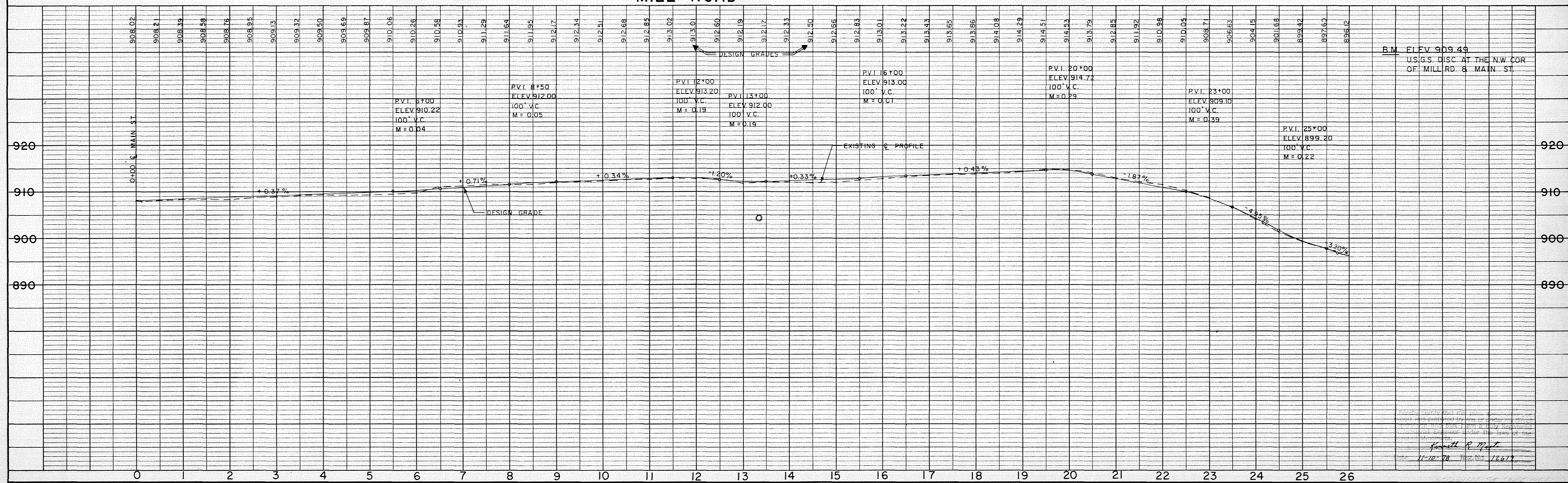
*Kenneth R. Meyer*  
11-10-78 12679

**PLAN**  
 SURVEYED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 PLOTTED BY \_\_\_\_\_  
 NOTE BOOK No. \_\_\_\_\_  
 REVISIONS BY \_\_\_\_\_



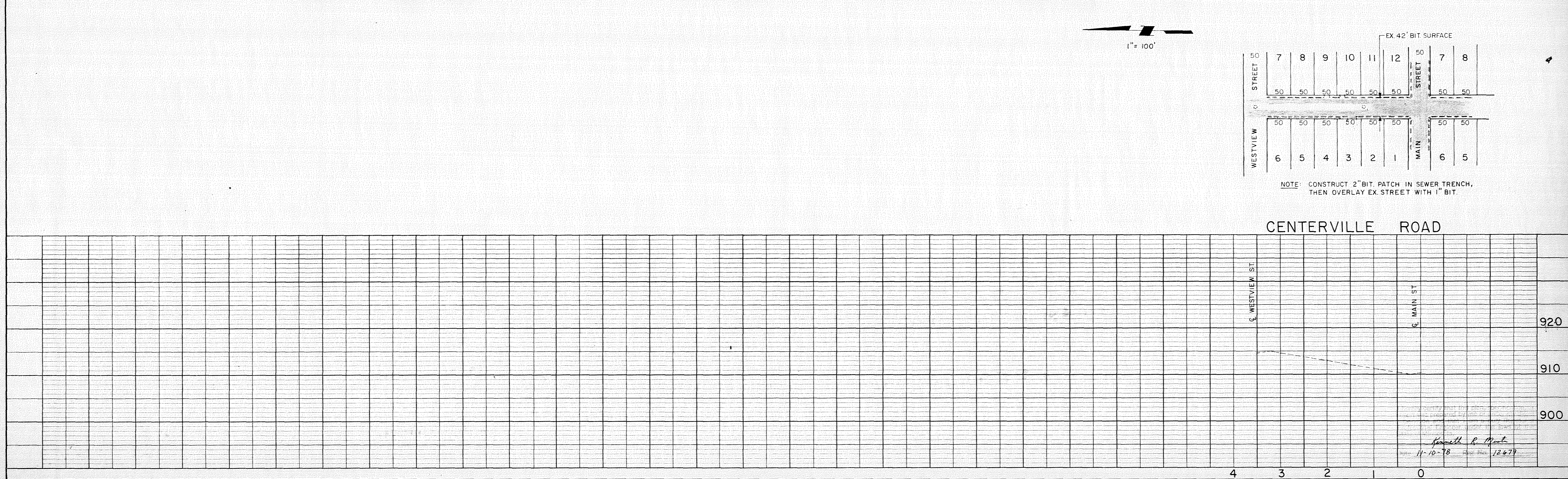
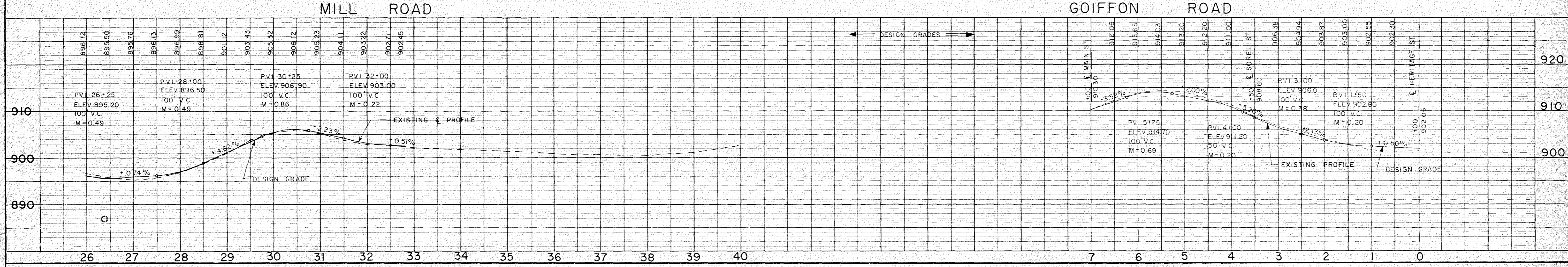
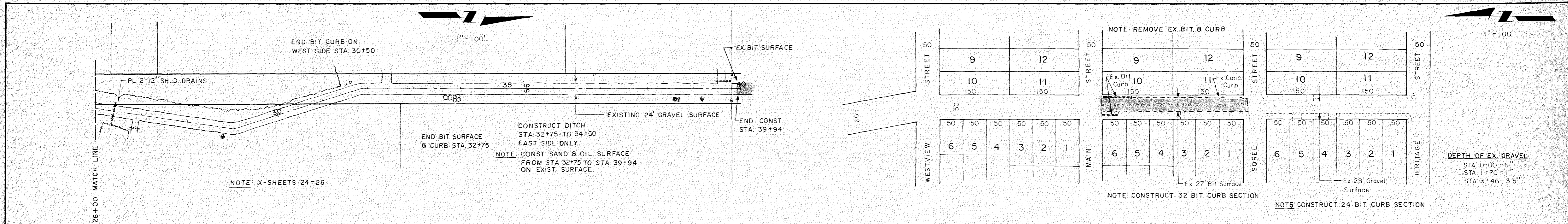
**PROFILE**  
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 PLOTTED BY \_\_\_\_\_  
 NOTE BOOK No. \_\_\_\_\_  
 REVISIONS BY \_\_\_\_\_

**MILL ROAD**



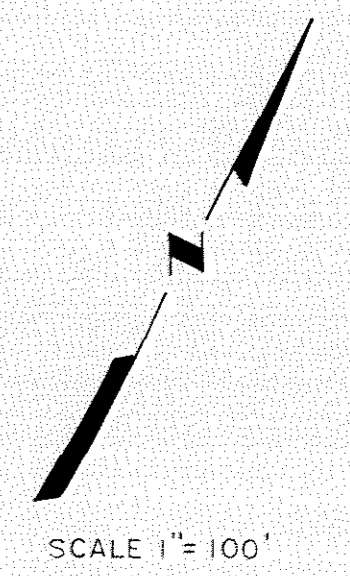
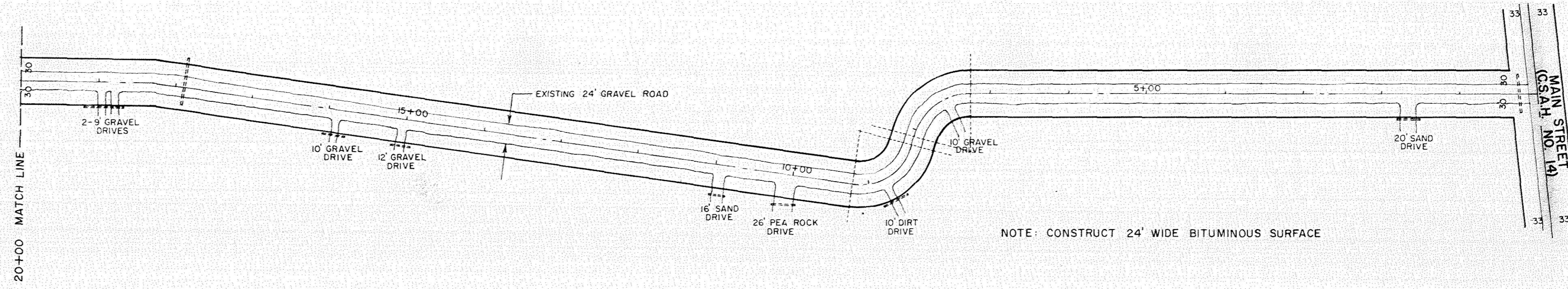
DATE  
BY  
DRAWN  
CHECKED  
ALIGNMENT CHECKED  
NOTE BOOK  
No.

DATE  
BY  
DRAWN  
CHECKED  
GRADES CHECKED  
B.M.'S NOTED  
STRUCTURE ELEVATIONS CHECKED  
PROFILE  
NOTE BOOK  
No.



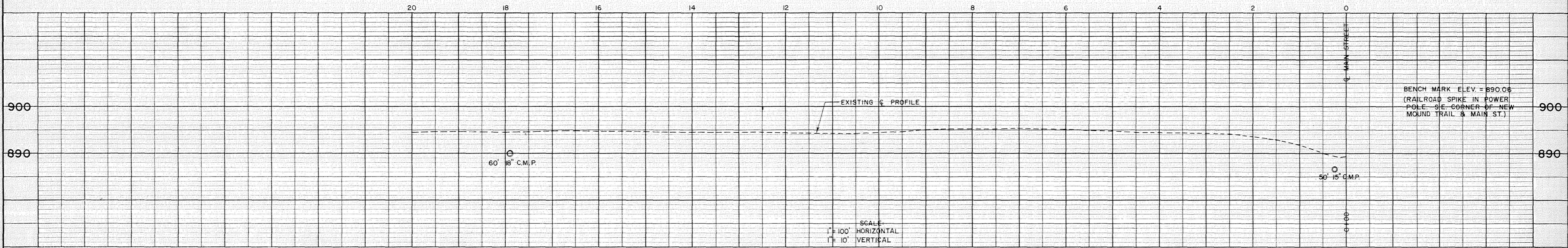
**PLAN**  
 SURVAYOR: \_\_\_\_\_  
 ROUTED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 NO. OF PAGES CHECKED: \_\_\_\_\_  
 NO. OF PAGES CHECKED: \_\_\_\_\_

**PROFILE**  
 SURVAYOR: \_\_\_\_\_  
 ROUTED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 NO. OF PAGES CHECKED: \_\_\_\_\_  
 NO. OF PAGES CHECKED: \_\_\_\_\_



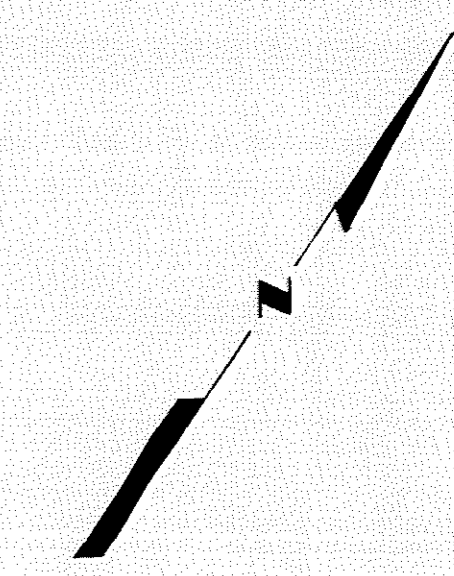
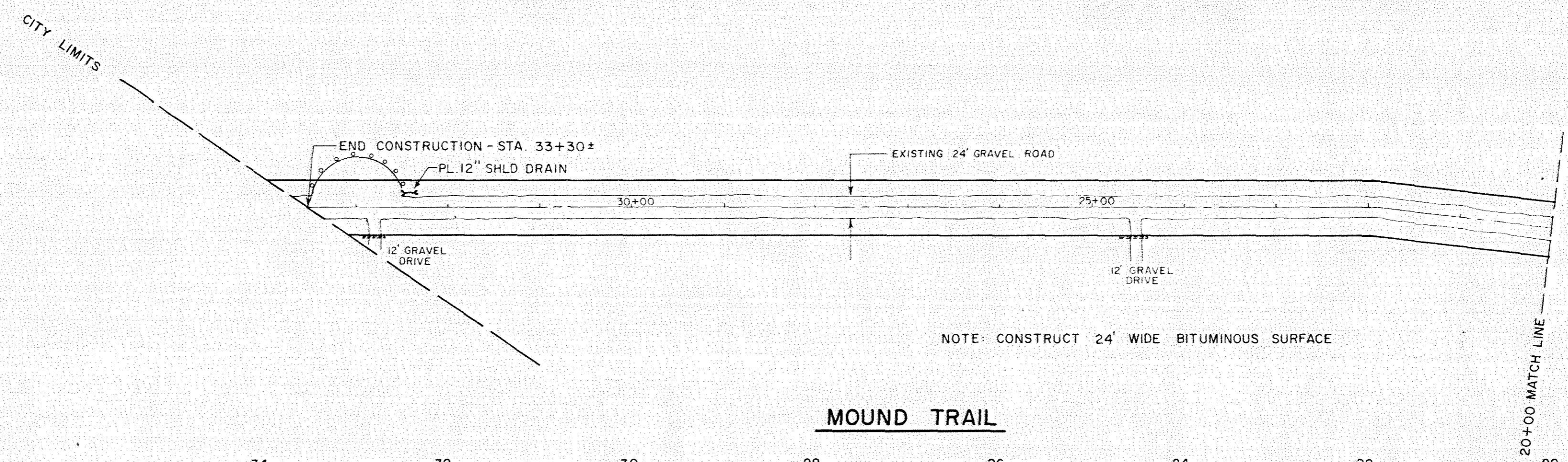
SCALE 1" = 100'

**MOUND TRAIL**



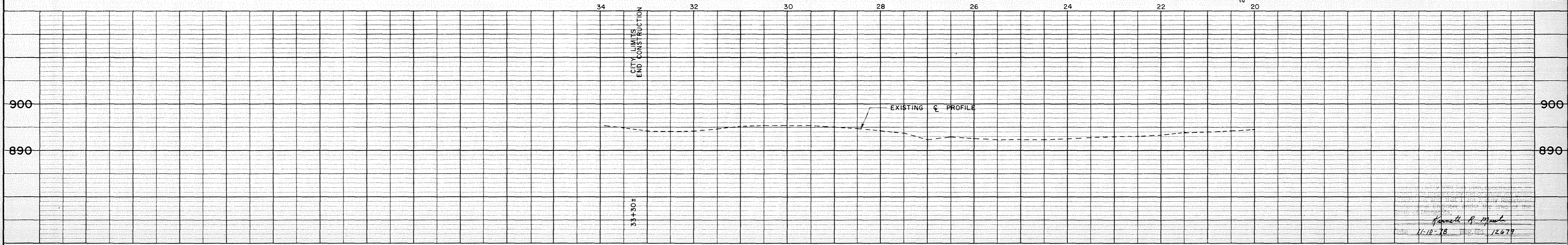
BENCH MARK ELEV. = 890.06  
 (RAILROAD SPIKE IN POWER  
 POLE S.E. CORNER OF NEW  
 MOUND TRAIL & MAIN ST.)

SCALE  
 1" = 100' HORIZONTAL  
 1" = 10' VERTICAL



SCALE 1" = 100'

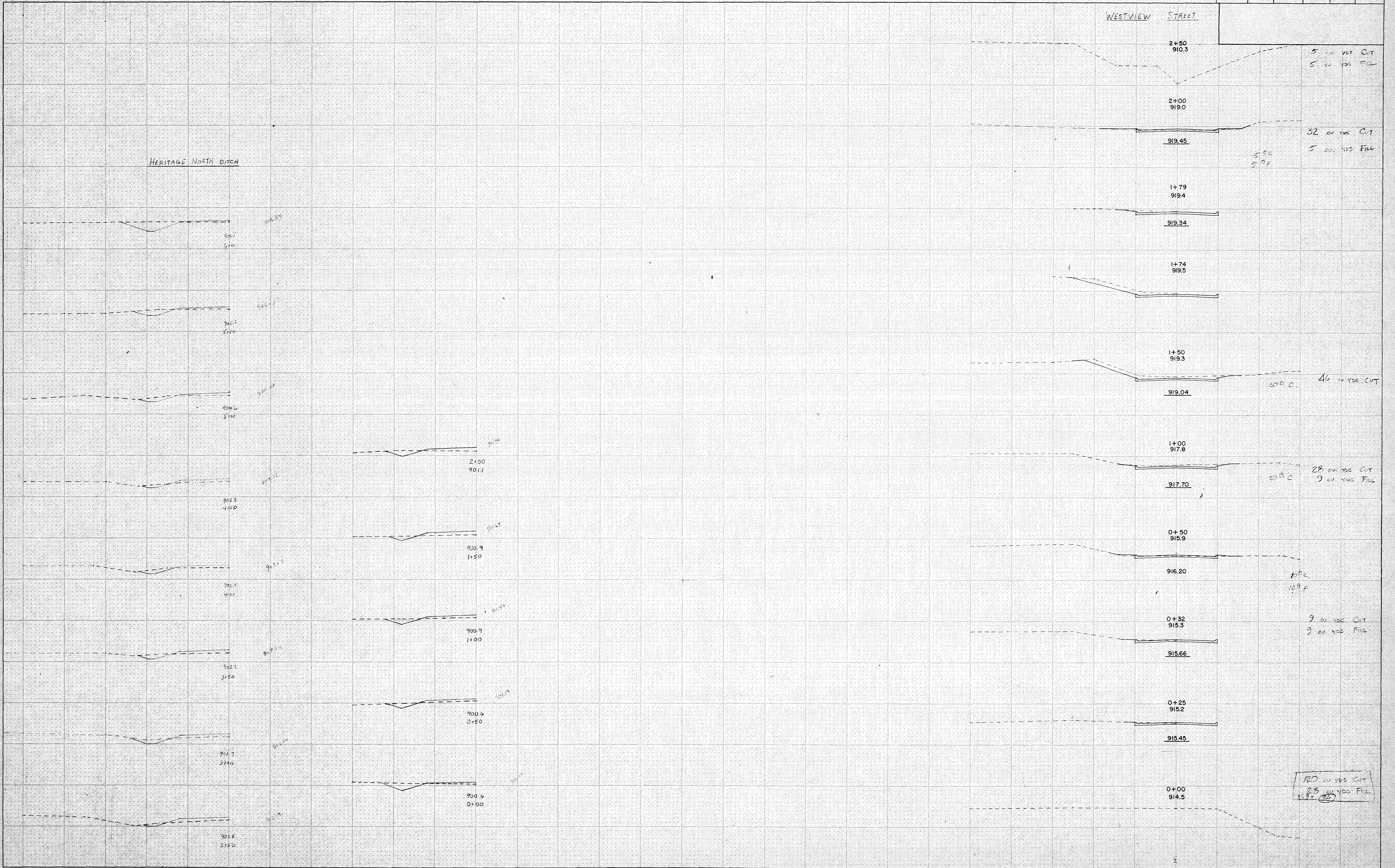
**MOUND TRAIL**



11-10-78  
 12679

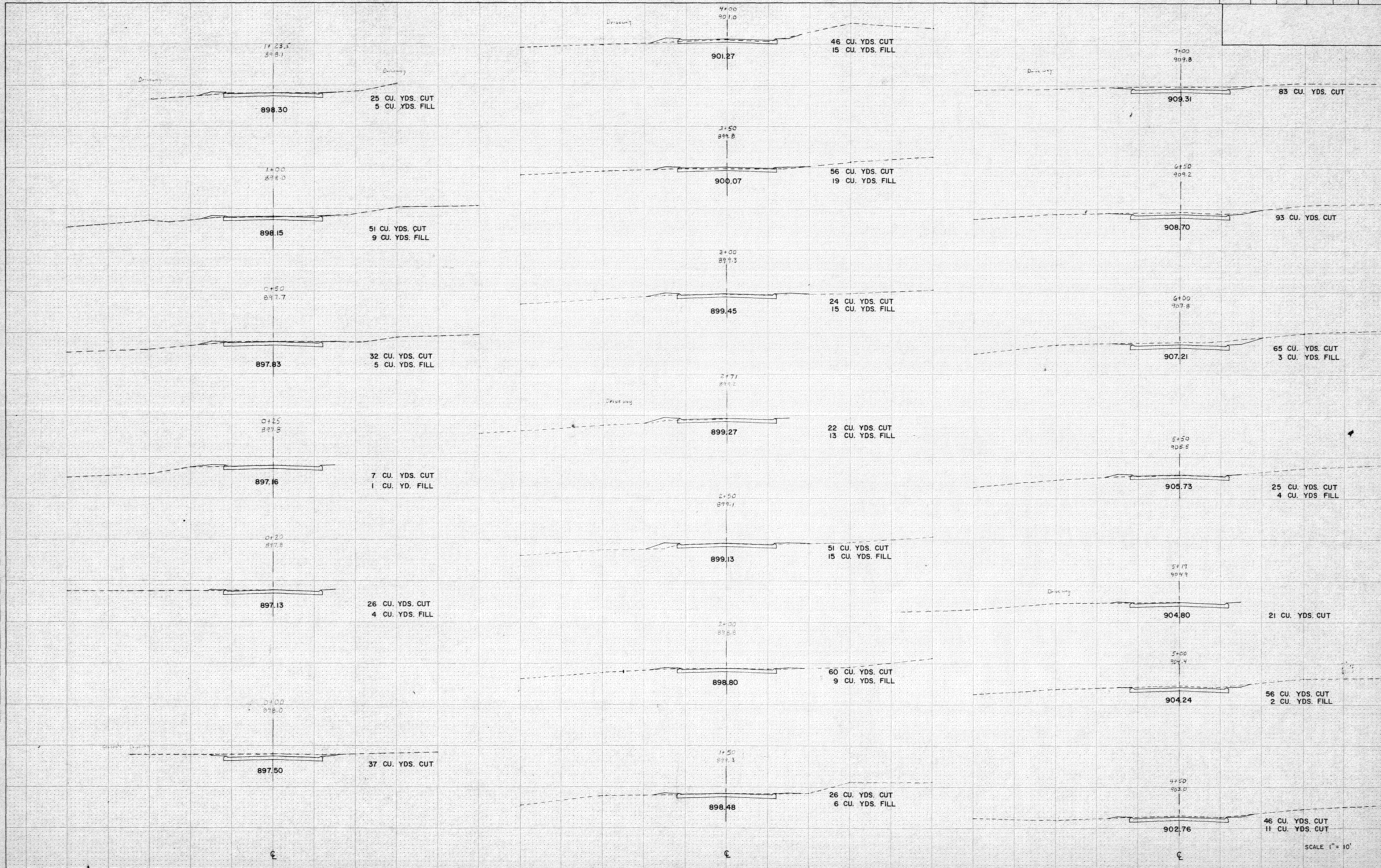
FINAL SURVEY  
 SURVEYED PLOTTED  
 TEMPLATE NO. \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
 AREAS CHECKED

ORIGINAL SURVEY  
 SURVEYED PLOTTED  
 TEMPLATE NO. \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
 AREAS CHECKED



FINAL SURVEY NOTE BOOK NO. [ ]  
 BY [ ] DATE [ ]  
 SHAWNEE SURVEY TEMPLATE AREAS CHECKED

ORIGINAL SURVEY NOTE BOOK NO. [ ]  
 BY [ ] DATE [ ]  
 SHAWNEE SURVEY TEMPLATE AREAS CHECKED



FUNCTIONAL CROSS SECTION - OPEN DOTTED  
 ROGERS CO. - MINNEAPOLIS, ST. PAUL

852 cu. yds. cut  
 134 cu. yds. fill

LAMOTTE ROAD Sheet No. 16 of 26 Sheets

SCALE 1" = 10'

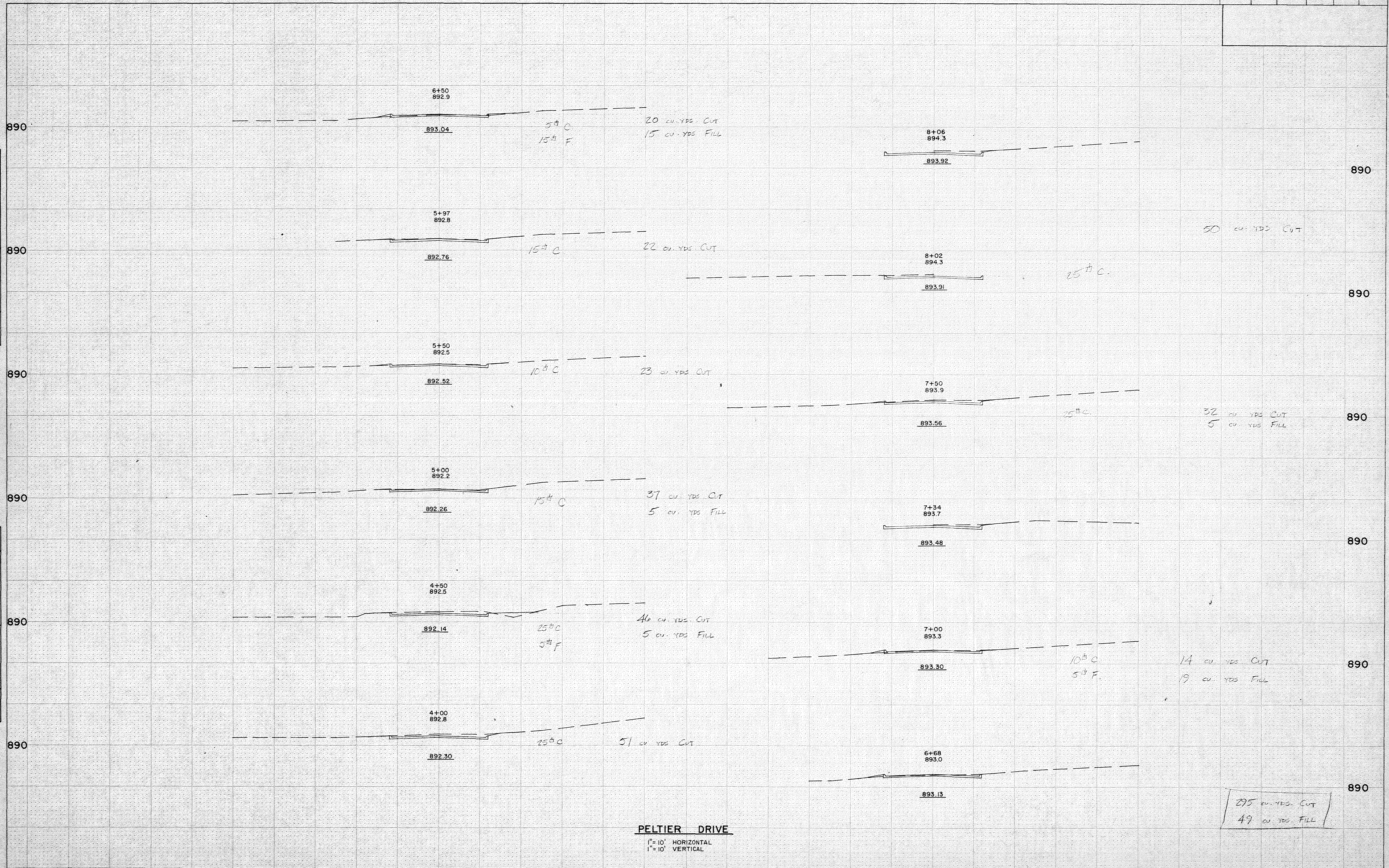






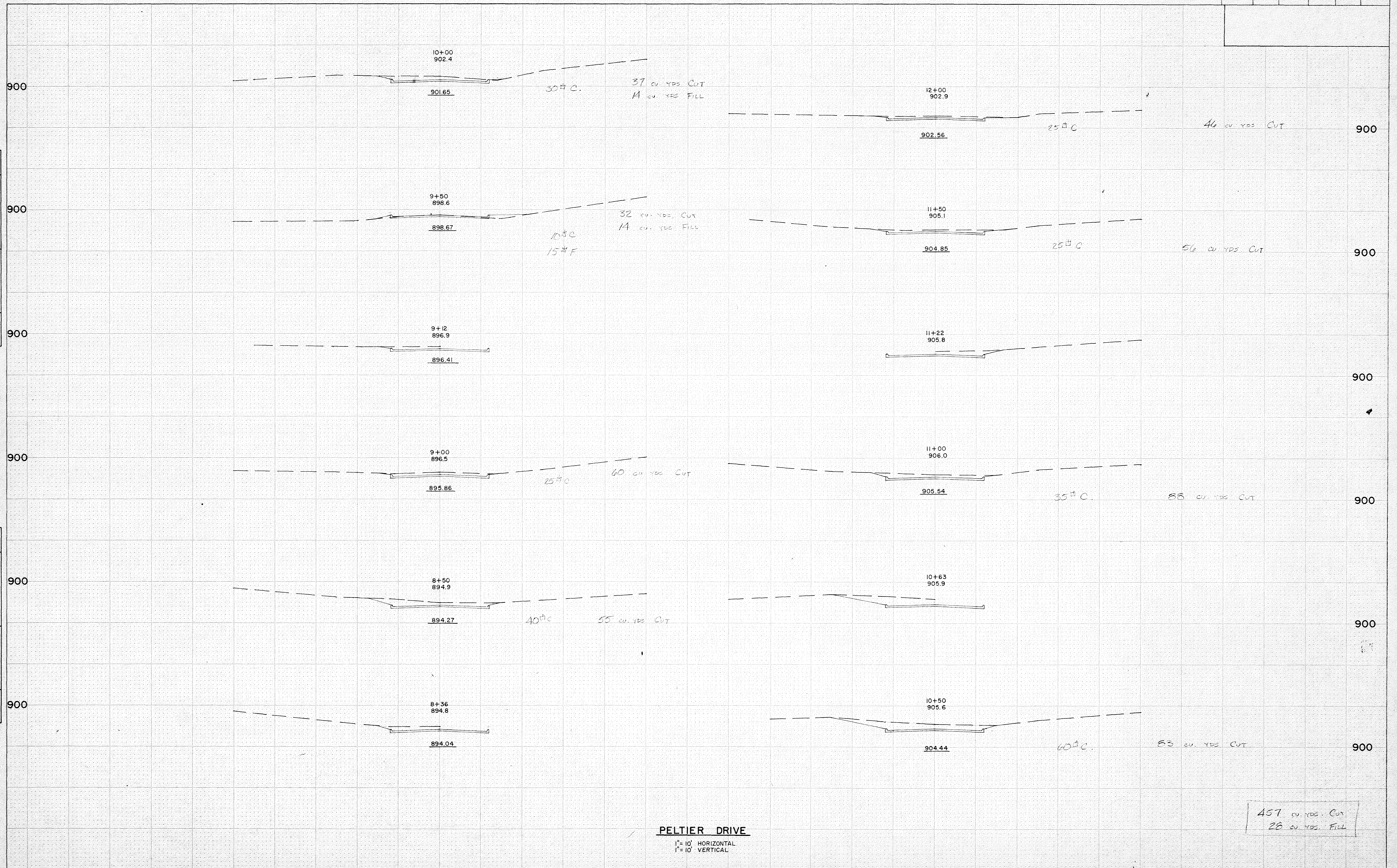
FINAL SURVEY NOTE BOOK NO. \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 SURVEYED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 PLOTTED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 TEMPLATE NO. \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_

ORIGINAL SURVEY NOTE BOOK NO. \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 SURVEYED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 PLOTTED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 TEMPLATE NO. \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_



FINAL SURVEY NOTE BOOK NO. [ ]  
 BY [ ] DATE [ ]  
 CORRECTED PLOTTED AREA CHECKED

ORIGINAL SURVEY NOTE BOOK NO. [ ]  
 BY [ ] DATE [ ]  
 CORRECTED PLOTTED AREA CHECKED

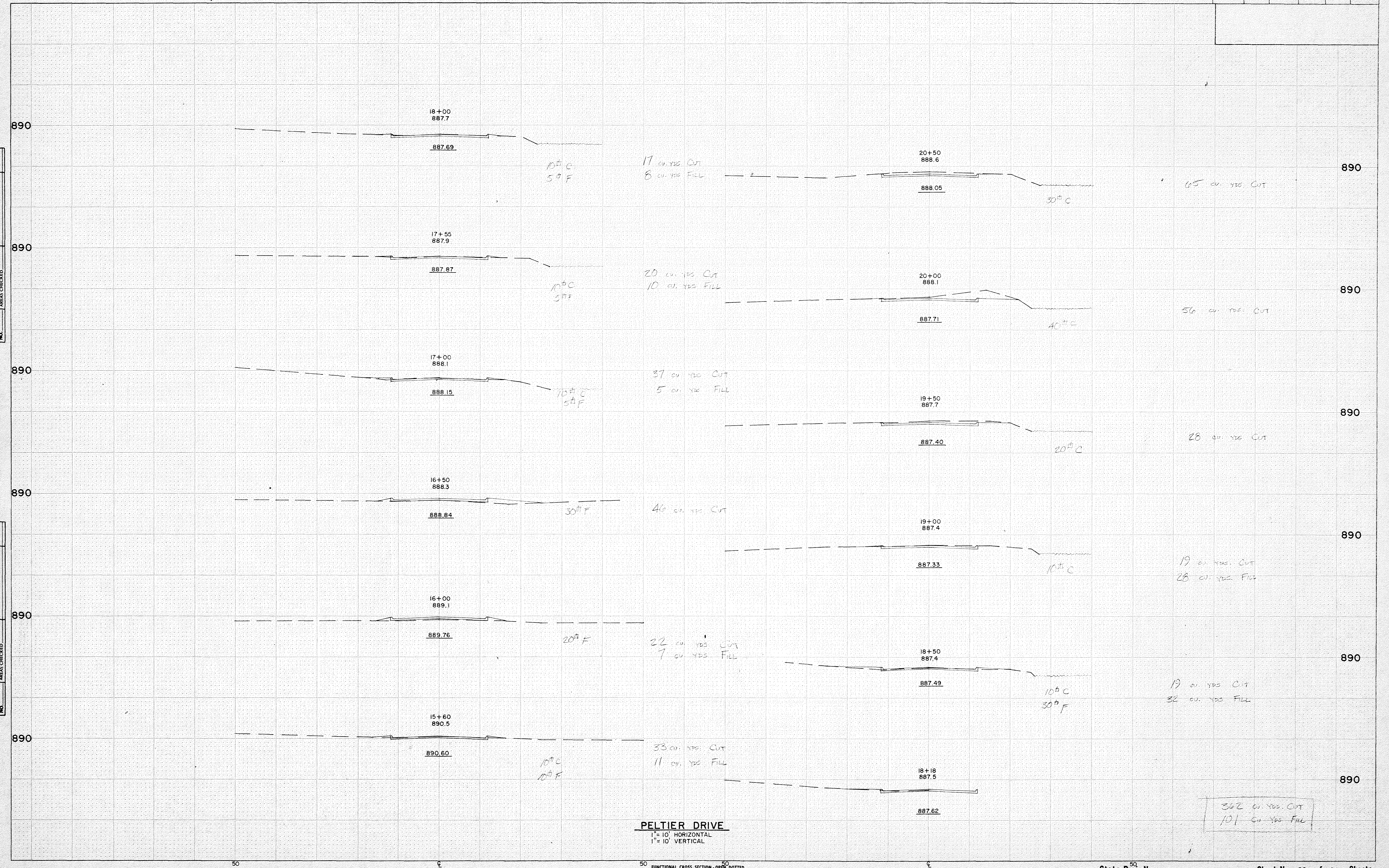


457 cu yds CUT  
 28 cu yds FILL



FINAL SURVEY CHECKED BY DATE  
 SURVEYOR'S NAME  
 PLOTTED BY  
 TEMPLATE NO.  
 NOTE BOOK NO.  
 AREAS CHECKED

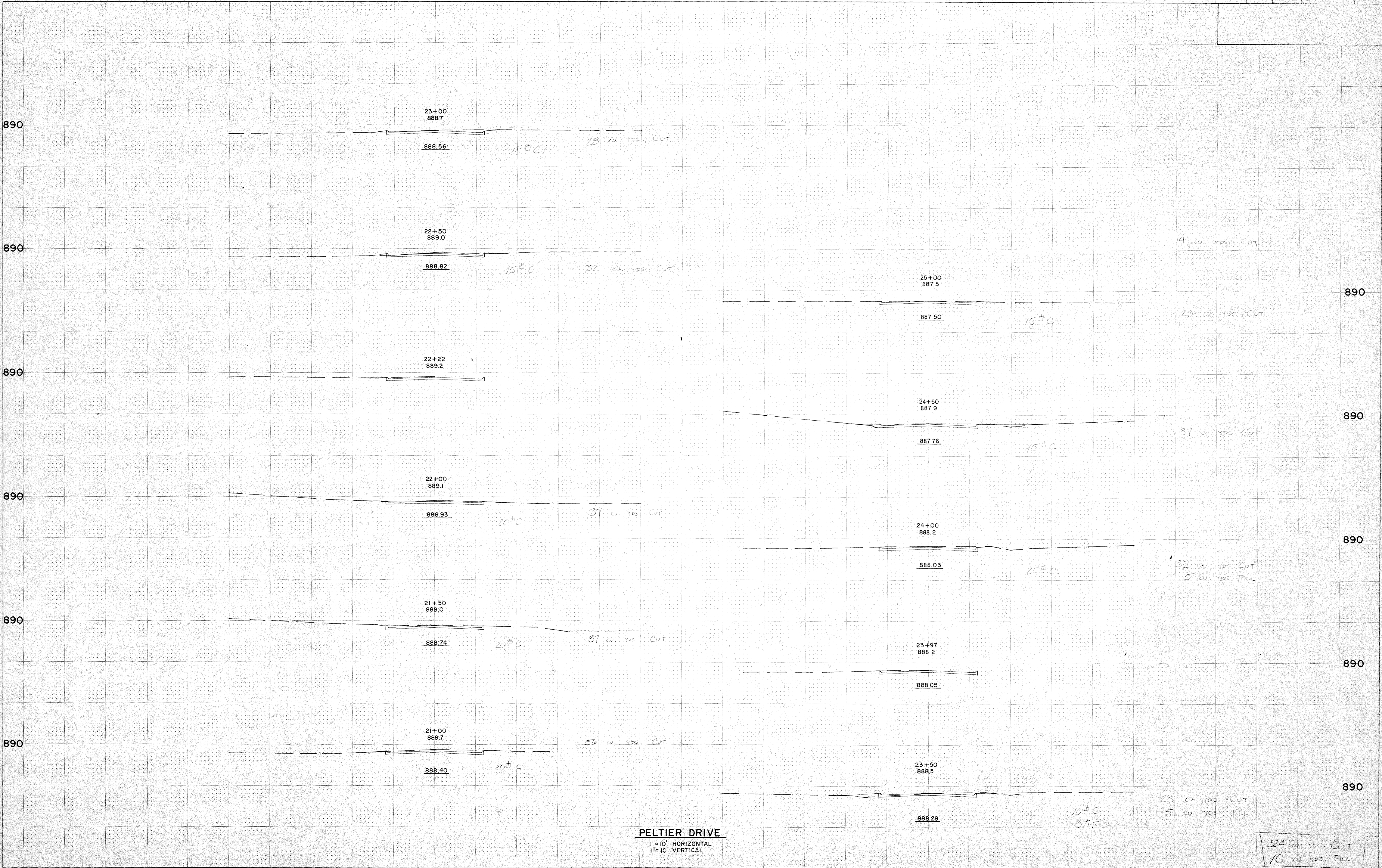
ORIGINAL SURVEY CHECKED BY DATE  
 SURVEYOR'S NAME  
 PLOTTED BY  
 TEMPLATE NO.  
 NOTE BOOK NO.  
 AREAS CHECKED



FUNCTIONAL CROSS SECTION - OPEN DOTTED  
 ROGERS CO. - MINNEAPOLIS - ST. PAUL

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
	AREAS CHECKED	



**PELTIER DRIVE**  
 1" = 10' HORIZONTAL  
 1" = 10' VERTICAL

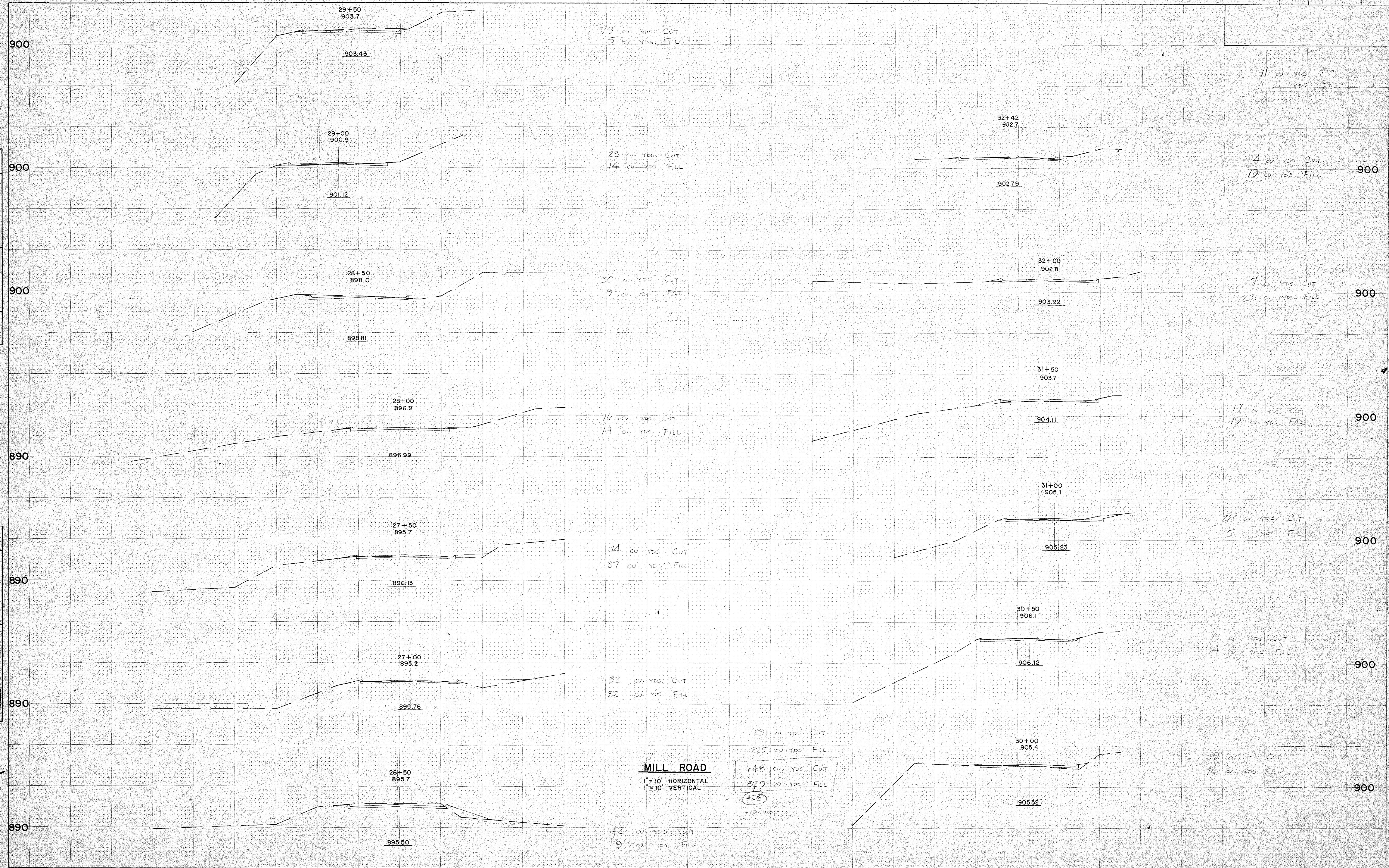
FUNCTIONAL CROSS SECTION - OPEN DOTTED  
 ROGERS CO. - MINNEAPOLIS - ST. PAUL





BY \_\_\_\_\_ DATE \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_

BY \_\_\_\_\_ DATE \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_



**MILL ROAD**

1" = 10' HORIZONTAL  
 1" = 10' VERTICAL

291 cu. yds. CUT  
 225 cu. yds. FILL  
 648 cu. yds. CUT  
 322 cu. yds. FILL  
 425  
 220 yds.

