MINNESOTA DEPARTMENT OF TRANSPORTATION

THE COUNTY OF OLMSTED

CONSTRUCTION PLAN FOR BR. NO. L6323 REPLACEMENT

LOCATED ON CR. 121 **BETWEEN** CR. 112 & T.H. 63 4 MILES S.E. ORONOCO **(GEOGRAPHIC DESCRIPTION)**

FROM APPROX. 1800' E. OF W1/4 COR. SEC. 26 T108N-R14W **TO** APPROX. 2650' E. OF W1/4 COR. SEC. 26 T108N-R14W **(LEGAL DESCRIPTION)**

STATE PROJ. NO. .....

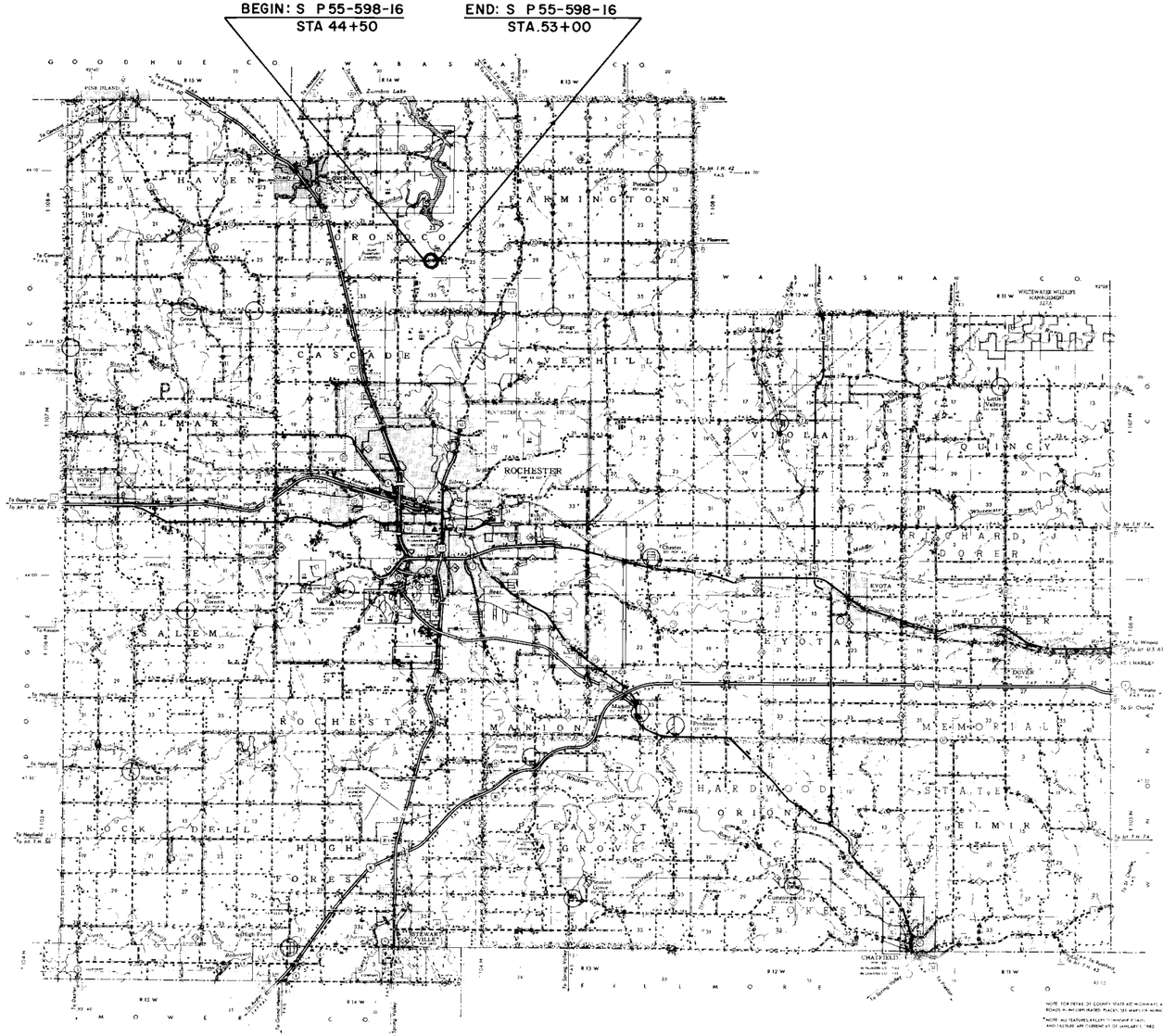
GROSS LENGTH	FEET	MILES
BRIDGES-LENGTH	FEET	MILES
EXCEPTIONS-LENGTH	FEET	MILES
NET LENGTH	FEET	MILES

~~**STATE PROJ. NO.**~~ S. P. 55-598-16

GROSS LENGTH	850.00	FEET 0.161	MILES
BRIDGES-LENGTH		FEET	MILES
EXCEPTIONS-LENGTH		FEET	MILES
NET LENGTH	850.00	FEET 0.161	MILES

BEGIN: S. P. 55-598-16 STA 44+50

END: S. P. 55-598-16 STA. 53+00



PLANS SYMBOLS

STATE LINE
COUNTY LINE
TOWNSHIP OR RANGE LINE
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
RIGHT OF WAY LINE
PRESENT RIGHT OF WAY LINE
CONTROL OF ACCESS LINE
PROPERTY LINE (Except Land Lines)
VACATED PLATTED PROPERTY
CORPORATE OR CITY LIMITS
TRUNK HIGHWAY CENTER LINE
RETAINING WALL
RAILROAD
RAILROAD RIGHT OF WAY LINE
RIVER OR CREEK (NAME)
DRY RUN
DRAINAGE DITCH (SIZE)
DRAIN TILE
CULVERT
DROP INLET
GUARD RAIL
BARBED WIRE FENCE
WOVEN WIRE FENCE
CHAIN LINK FENCE
RAILROAD SNOW FENCE
STONE WALL OR FENCE
HEDGE
RAILROAD CROSSING SIGN
RAILROAD CROSSING BELL
ELECTRIC WARNING SIGN
CROSSING GATE
MEANDER CORNER
SPRINGS
MARSH
TIMBER
ORCHARD
BRUSH
NURSERY
CATCH BASIN C.B.
FIRE HYDRANT
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 (G)
SAND PIT (S)
BORROW PIT (B)
ROCK QUARRY (Q)
SLOPE EASEMENT SE

UTILITIES SYMBOLS

POWER POLE LINE
TELEPHONE OR TELEGRAPH POLE LINE
JOINT TELEPHONE AND POWER ON POWER POLES
ON TELEPHONE POLES
ANCHOR
STEEL TOWER
STREET LIGHT
PEDESTAL (TELEPHONE CABLE TERMINAL)
GAS MAIN
WATER MAIN
CONDUIT
TELEPHONE CABLE IN CONDUIT
ELECTRIC CABLE IN CONDUIT
TELEPHONE MANHOLE
ELECTRIC MANHOLE
BURIED TELEPHONE CABLE
BURIED ELECTRIC CABLE
AERIAL TELEPHONE CABLE
SEWER, (SANITARY OR STORM)
SEWER MANHOLE

SCALES

PLAN 0' 10'

PROFILE 10' VERT. & 100' HOR.

INDEX MAP 0' 10,560'

CROSS SECTIONS 0 10'

STATE AID TITLE SHEET 5/77 ALDINGER, MPLS. 55405

MINN. PROJ. NO. BR 0S 9055 (10)

SPECIFICATIONS REFERENCE

The 1978 Edition of the Minnesota Department of Transportation "Standard Specifications For Highway Construction" Shall Govern.

INDEX

SHEET NO. 1 TITLE SHEET AND LAYOUT MAP.

" NO. 2 ESTIMATE OF QUANTITIES AND TYPICAL SECTION

" NO. 3 PLAN & PROFILE SHEET.

" NO. 4 TO 8 CROSS SECTIONS.

DESIGN DESIGNATION

R .....

ΣN18(20) .....

ADT (Current Year)	=	58
ADT (Future Year)	=	93
DHV (Design Hr. Vol.)	=	
D (Directional Distr.)	=	%
T (Heavy Commercial)	=	%
SOIL FACTOR		130

Design Speed 40 MPH

Based on Stopping Sight Distance

Height of eye 3.75' Height of object 0.5

Design Speed not achieved at:

STA. TO STA. MPH

STA. TO STA. MPH

STA. TO STA. MPH

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

DATE 6-28-81 REG. NO. 10219 ENGR. [signature]

COUNTY Olmsted

Recommended for Approval [signature] 6-30 1981
DISTRICT STATE AID ENGINEER

Recommended for Approval Delwert D. Otterdahl 4-12 1983
STATE AID PLANS AND SPECS ENGINEER

Approved 4/12 1983 [signature]
STATE AID ENGINEER

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED

DIVISION ADMINISTRATOR DATE

STATE PROJ. NO. 55-598-16 CR. 121

~~**STATE PROJ. NO.**~~ .....

SHEET NO. 1 **OF** 8 **SHEETS**

ESTIMATED QUANTITIES

SPECIFICATION NO.	ITEM	UNIT	NON-PARTICIPATING	PARTICIPATING	TOTAL ESTIMATED QUANTITIES
2021.501	MOBILIZATION	LUMP SUM		1	1
2101.501	CLEARING	ACRE	1.3		1.3
2101.502	CLEARING	TREE	6		6
2101.506	GRUBBING	ACRE	1.3		1.3
2101.507	GRUBBING	TREE	6		6
2104.501	REMOVE PIPE CULVERTS	LIN. FT.	32		32
2105.501	COMMON EXCAVATION	CU.YD.	2986(P)		2986(P)
2105.511	COMMON CHANNEL EXCAVATION	CU.YD.	7242	328	7570
2105.513	ROCK CHANNEL EXCAVATION	CU.YD.	837	71	908
2442.501	REMOVE OLD BRIDGE	LUMP SUM	1		1
2451.507	GRANULAR BEDDING (CV)	CU.YD.		108(P)	108(P)
2501.511	24" C.S. PIPE CULVERT	LIN. FT.	56		56
2501.515	24" G.S. PIPE APRON	EACH	2		2
2501.521	115" SPAN RCP-ARCH CULVERT CLASS III A	LIN. FT.		84	84
2501.525	115" SPAN RC PIPE-ARCH APRONS	EACH		2	2
2511.501	RANDOM RIPRAP CLASS A	CU.YD.	598	5	603
2511.501	RANDOM RIPRAP CLASS B	CU.YD.		53	53
2511.504	FILTER BLANKET TYPE I	CU.YD.	333	30	363

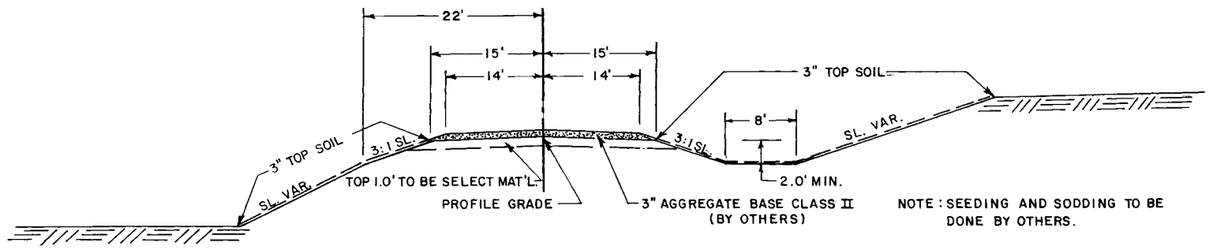
(P) PLAN QUANTITY.

STANDARD PLATES

THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT.

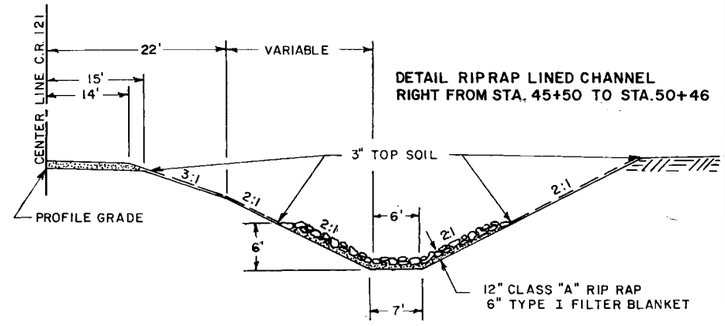
PLATE NO	DESCRIPTION
0003 A	SPECIFICATION REFERENCE TO STANDARD PLATES.
3007 A	SHEAR REINFORCEMENT FOR PRECAST DRAINAGE STRUCTURES.
3014 J	REINFORCED CONCRETE PIPE ARCH DETAIL.
3040 F	CORRUGATED METAL PIPE CULVERT.
3114 G	SECTIONAL CONCRETE APRON FOR REINF. CONC. PIPE-ARCH.
3123 H	METAL APRON FOR C.M. PIPE.
3124 A	METAL APRON CONNECTION.
3133 A	RIPRAP AT RCP OUTLETS.
3145 B	CONCRETE PIPE TIES. (EYE BOLT TIE)
3221 C	CORRUGATED STEEL PIPE COUPLING BAND.
8000 H	STANDARD BARRICADES.
9000 B	APPROACHES AND ENTRANCES.

TYPICAL GRADING AND SURFACE SECTION



NOTE: SEEDING AND SODDING TO BE DONE BY OTHERS.

STA. 44+50 TO STA. 53+00



DETAIL RIPRAP LINED CHANNEL RIGHT FROM STA. 45+50 TO STA. 50+46

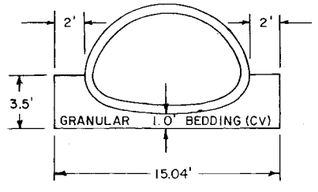
NOTE: MATERIAL FROM THE UPPER 1.0' OF THE NATURAL TOP SOIL SHALL NOT BE USED IN THE UPPER 1.0' OF THE ROAD BED. PART OF THIS MATERIAL SHALL BE UNIFORMLY SPREAD ON SLOPES AND DITCH BOTTOMS TO A DEPTH OF 3". NO PAYMENT IN ADDITION TO THE CONTRACT PRICE FOR COMMON EXCAVATION WILL BE MADE FOR SPREADING THE TOPSOIL AS ABOVE PROVIDED, NOR WILL ANY UNDERCUTTING MADE IN EXCAVATION PRIOR TO PLACING THE TOPSOIL BE MEASURED FOR PAYMENT.

NOTE: CORRUGATED STEEL AND REINFORCED CONCRETE PIPE-ARCH CULVERT EXCAVATION WILL BE CONSIDERED INCIDENTAL, AND WILL BE INCLUDED FOR PAYMENT UNDER UNIT PRICE FOR "PIPE CULVERT."

NOTE: ALL DIMENSIONS AND SLOPES SHOWN ON TYPICAL SECTIONS ARE APPROXIMATE.

BEDDING DETAIL

SCALE 1"=5'

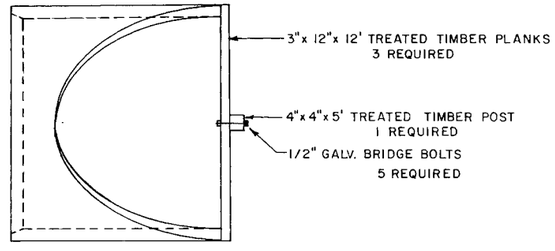


INCIDENTAL ITEM

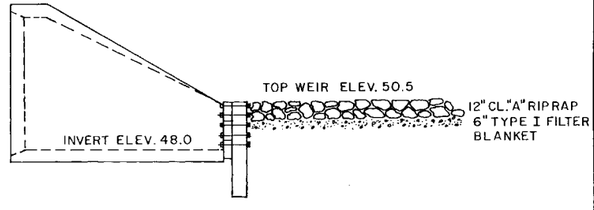
TIMBER WEIR CONSTRUCTION AT IN LET OF 115" SPAN R.C. PIPE-ARCH APRON

(NOT DRAWN TO SCALE)

TOP VIEW



SIDE VIEW



S. P. 55-598-16

~~State Proj. No.~~

ALBINSON INC. MINNEAPOLIS 55405

℄ CULV. 42+98
INPL. 24"x52'CMP.
NO CHANGE

℄ CULV. 48+50
INPL. 15"x32'CMP.
REMOVE

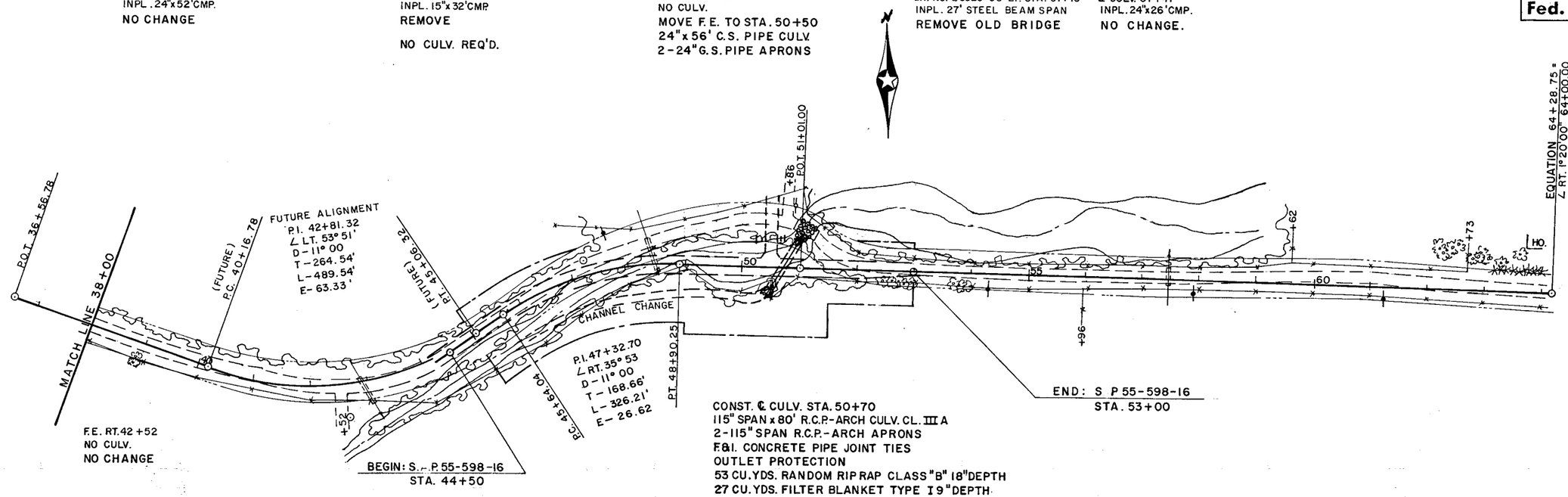
NO CULV. REQ'D.

F.E. LT. 50+86
NO CULV.
MOVE F.E. TO STA. 50+50
24"x56' C.S. PIPE CULV.
2-24" G.S. PIPE APRONS

BR. NO. L6323 60' LT. STA. 51+10
INPL. 27' STEEL BEAM SPAN
REMOVE OLD BRIDGE

℄ CULV. 57+47
INPL. 24"x26'CMP.
NO CHANGE.

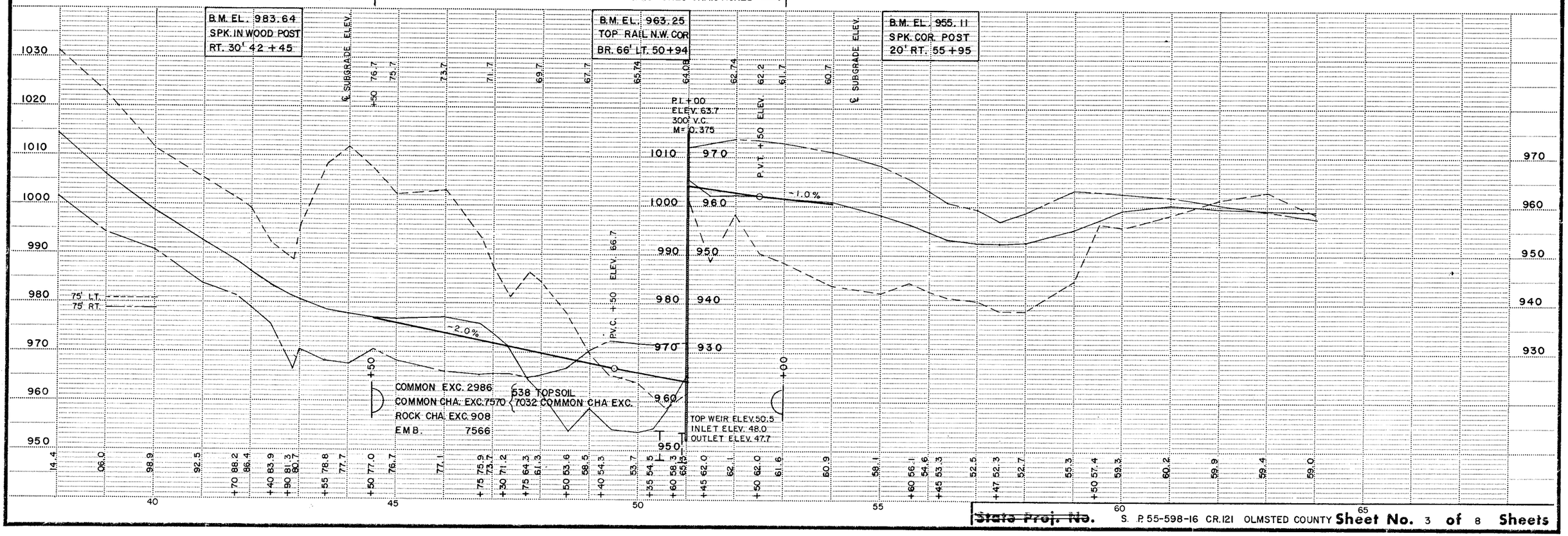
Fed. Proj. No.



CONST. ℄ CULV. STA. 50+70
115" SPAN x 80' R.C.P.-ARCH CULV. CL. III A
2-115" SPAN R.C.P.-ARCH APRONS
F&I. CONCRETE PIPE JOINT TIES
OUTLET PROTECTION
53 CU. YDS. RANDOM RIP RAP CLASS "B" 18" DEPTH
27 CU. YDS. FILTER BLANKET TYPE I 9" DEPTH
RIP RAP LINED CHANNEL & INLET PROTECTION
603 CU. YDS. RANDOM RIP RAP CLASS "A" 12" DEPTH
336 CU. YDS. FILTER BLANKET TYPE I 6" DEPTH

VERTICAL CONTROL
ELEVATIONS SHOWN IN THIS PLAN ARE BASED ON MEAN SEA-LEVEL DATUM, 1929 ADJ. AND TIED TO B.M. STAMPED "TT 21 W 1934 1086. LOCATED NEAR THE CENTER SEC. 27 T108N R14W ELEVATION 1086.049

← CL.6-GR.6 TREES — CL.1.3 ACRES GR.1.3 ACRES →



~~State Proj. No.~~ S.P. 55-598-16 CR.121 OLMSTED COUNTY **Sheet No. 3 of 8 Sheets**