FORM 100-A '65

Minn. **Proj. No.** OS 9055

STATE OF MINNESOTA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLAN FOR Grading, Bridge No.55525 and Aggegate Base.

COUNTY **HIGHWAY NO.** 116

BETWEEN C.R. 139 **AND** C.S.A.H. 16

From 976.06' West of S.E. Corner Sec. 3 T.105 N. – R.13 W.
Give proper reference to Sections, Township and Range

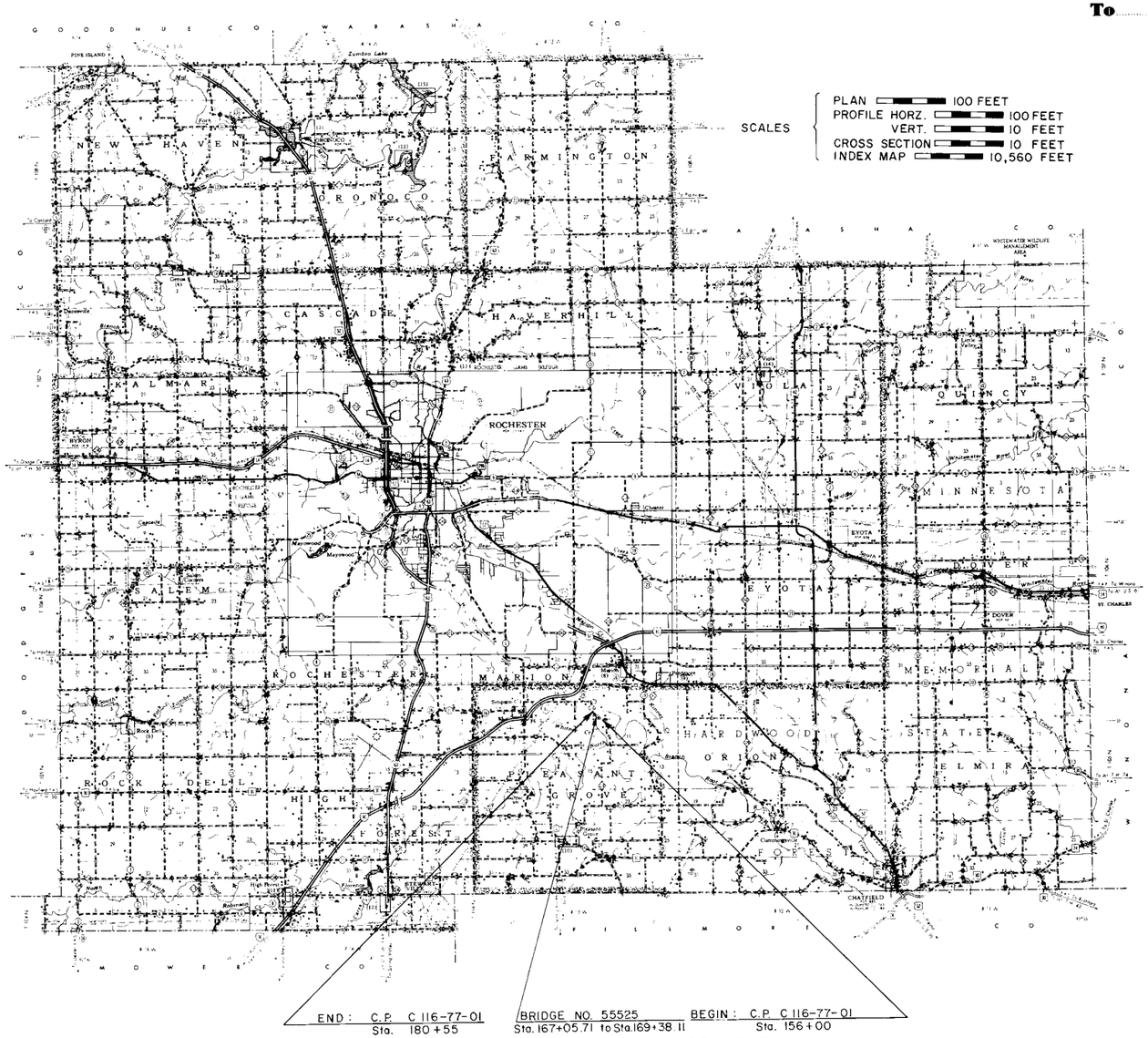
To 976.06' West and 2455.0' N.W. S.E. Corner Sec. 3 T.105 N. – R.13 W.

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
SAND PIT
BORROW PIT
ROCK QUARRY

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	100 FEET
PROFILE HORZ.	100 FEET
VERT.	10 FEET
CROSS SECTION	10 FEET
INDEX MAP	10,560 FEET

END: C.P. C 116-77-01 Sta. 180+55

BRIDGE NO. 55525 Sta. 167+05.71 to Sta. 169+38.11

BEGIN: C.P. C 116-77-01 Sta. 156+00

LENGH = 232.4 FEET ..... 0.044 MILES

GROSS LENGTH	2455.00	**FEET**	0.465 **MILES**
BRIDGES-LENGTH	232.40	**FEET**	0.044 **MILES**
EXCEPTIONS-LENGTH		**FEET**	**MILES**
NET LENGTH	2455.00	**FEET**	0.465 **MILES**

INDEX OF SHEETS

Sheet No. 1 Title Sheet & Layout Map
" No. 2 Est. Quantities & Typical Sec.
" No. 3 Plan & Profile
" No. 4 To 7 Cross Sections
" No. 1 To 174 Bridge Sheets Br. No. 55525

DESIGN SPEED 45 **M. P. H.**

PROJECTED A. D. T. 150

7 **TON DESIGN**

SOIL FACTOR 130

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

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.

COUNTY ENGINEER DATE 5-12-77

Olmsted COUNTY REG. NO. 10217

RECOMMENDED FOR APPROVAL _____, 19__
DISTRICT STATE AID ENGINEER

RECOMMENDED FOR APPROVAL _____, 19__

APPROVED _____, 19__
STATE AID ENGINEER

— **SPECIFICATIONS** —

MINNESOTA HIGHWAY DEPARTMENT
STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION DATED JANUARY 1, 1972
AS AMENDED BY SUPPLEMENTAL SPECIFICATIONS DATED APRIL 1, 1976 SHALL GOVERN.

Minn. Project No. _____

S.A.P. _____
State Project No. 55-598-01 OS 9055

OLMSTED County, Minnesota. County Proj. No. C116-77-01 **Plan No.** _____ **Sheet 1 of** 7 **Sheets**

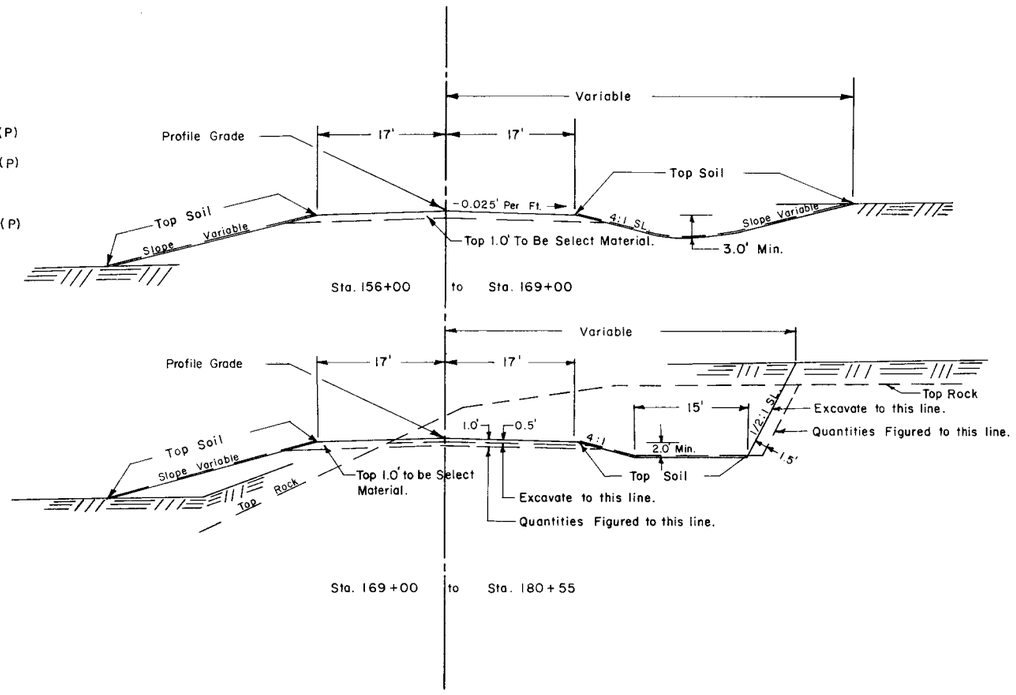
ESTIMATED QUANTITIES

	SPECIFICATION NO.	ITEM	UNIT	S.P 55-598-01 RURAL	C.P. C116-77-01 RURAL	TOTAL ESTIMATED QUANTITIES	
	2101.501	Clearing	Acre		0.9	0.9	
	2101.502	Clearing	Tree		6	6	
	2101.506	Grubbing	Acre		0.9	0.9	
	2101.507	Grubbing	Tree		6	6	
	2104.501	Remove Pipe Culverts	Lin. Ft.		66	66	
	2105.501	Common Excavtion	Cu. Yd.		13507	13507	(P)
	2105.503	Rock Excavation	Cu. Yd.		2417	2417	
	2105.507	Subgrade Excavation	Cu. Yd.		1357	1357	(P)
	2211.501	Aggregate Base, Class 2	Ton		1571	1571	
(1)	2442.501	Remove Old Bridge	Lump Sum		1	1	(P)
	2501.511	18" C.S. Pipe Culvert	Lin. Foot		60	60	
	2501.515	18" G.S. Pipe Culvert Apron	Each		4	4	
	2501.511	36" C.S. Pipe Culvert	Lin Foot		28	28	
	2501.515	36" G.S. Pipe Culvert Apron	Each		2	2	

(P) Plan Quantity.

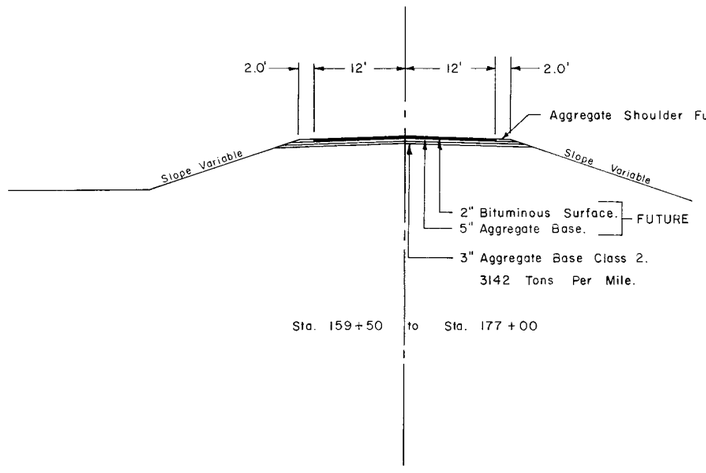
(1) The old Bridge shall become the property of the Contractor and shall be disposed of by him in accordance with the provisions of 2104.3C.

TYPICAL GRADING SECTIONS



SPECIAL DETAILS

TYPICAL BASE AND SURFACE SECTION



NOTE: MATERIAL FROM THE UPPER 1.0' OF THE NATURAL TOPSOIL SHALL NOT BE USED IN THE UPPER 1.0' OF THE ROADWAY. 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: SUBGRADE TREATMENT:
EXCAVATE 1.0 BELOW PROFILE GRADE FOR COMPACTION, AS SHOWN ON THE PLAN AND PROFILE SHEETS. EXCAVATION HAS BEEN COMPUTED AND IS LISTED AS SUBGRADE EXCAVATION. BACKFILL WITH SELECT MATERIAL FROM R.O.W. TAPERS SHALL BE 50:1 IN ALL CASES.

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

STANDARD PLATES

THE FOLLOWING STANDARD PLATES, APPROVED BY THE DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINSTRATION, SHALL APPLY ON THIS PROJECT.

PLATE NO.	DESCRIPTION
0002 A	SPECIFICATION REFERENCE TO STANDARD PLATES.
3040 D	CORRUGATED METAL PIPE
3123 G	METAL APRON FOR C.M. PIPE.
8000 F	STANDARD BARRICADES
9000 B	APPROACHES AND ENTRANCES

Minn. Proj. No. _____

County Project No. C116-77-01
S.A.P. _____
State Project No. 55-598-01

ALBINSON, INC. MINNEAPOLIS

Fed. Proj. No.

℄ Culv. 157+77
Inpl. 15" X 30' C.M.P.
Remove.

No Culv. Req'd.

Farm Ent. Lt. 159+32
No Culv.

18"x 32' C.S. Pipe Culv.
2-18" G.S. Pipe Culv. Aprons.

Const. F. Ent. Lt.
Sta. 161+00
18"x 28' C.S. Pipe Culv.
2-18" G.S. Pipe Culv.
Aprons.

℄ Culv. 164+61
Inpl. 30"X 36' C.M.P.
Remove

No Culv. Req'd.

F. Ent. Lt. 176+08
No Culv.

No Culv. Req'd.

NORTH BRANCH ROOT RIVER

BR. NO. L6183 (REMOVE)

Tele. Cable Marker

WOODS

CONSTR. BR. NO. 55525

BEGIN : C.P. C116-77-01
Sta. 156+00

P.I. 160+84.03
L Rt. 41° 35'
D 7° 00'
T 310.79'
L 594.05'
E 57.02

P.C. 157+13.24

P.T. 163+67.29

P.O.T. Sta. 167+81.0 L 2°
Sta. 38+00 L 1° (Bridge Survey)

P.C. 174+20.35

P.I. 178+03.0
L Rt. 62° 01'
D 9° 00'
T 382.65
L 689.07
E 108.13

P.T. 181+09.42

END: C.P. C116-77-01
Sta. 180+55

Farm Ent. Rt. 155+10
Inpl. 15"X 30' C.M.P.

No Change

Br. No. L6183
Truss Bridge Left Sta. 168+40
.79' Span — 15' Roadway

Remove Structure

CONST. F. Ent. Rt. Sta. 172+30
36"x 28' C.S. Pipe Culv.
2-36" G.S. Pipe Culv. Aprons.

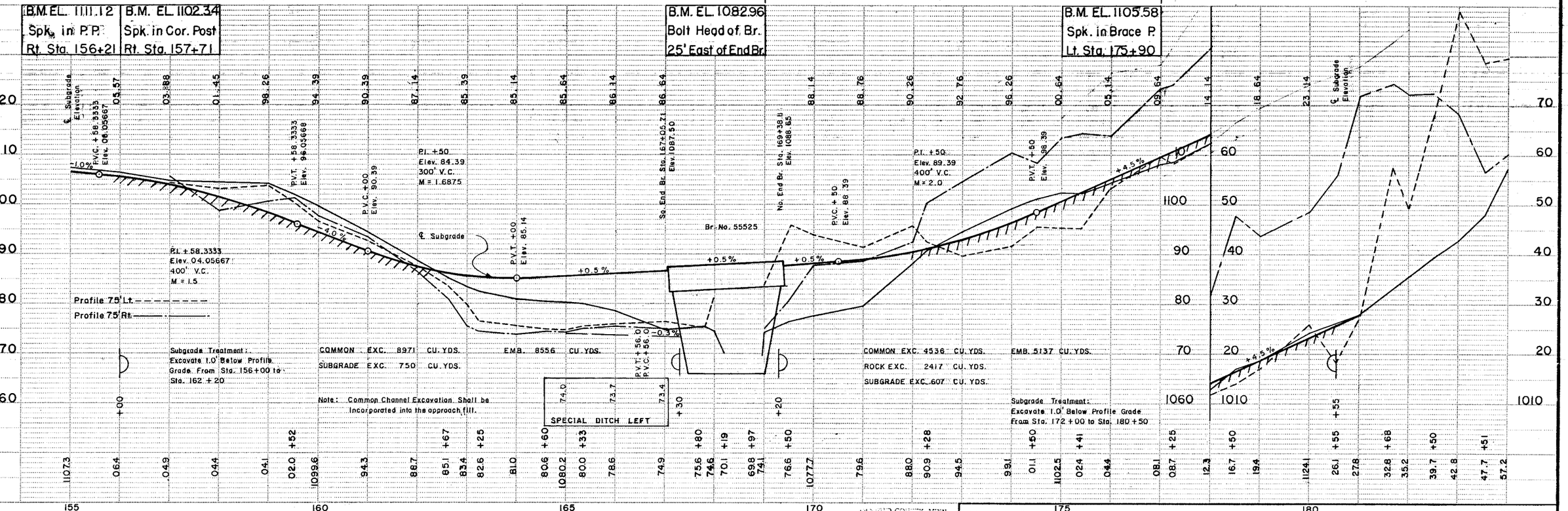
CL. 6 GR. 6 — CL. 0.9 ACRE – GR. 0.9 ACRE

B.M. EL. 1111.12
Spk. in P.P.
Rt. Sta. 156+21

B.M. EL. 1102.34
Spk. in Cor. Post
Rt. Sta. 157+71

B.M. EL. 1082.96
Bolt Head of Br.
25' East of End Br.

B.M. EL. 1105.58
Spk. in Brace P.
Lt. Sta. 175+90



Subgrade Treatment:
Excavate 1.0' Below Profile Grade From Sta. 156+00 to Sta. 162 + 20

COMMON EXC. 8971 CU. YDS. EMB. 8556 CU. YDS.
SUBGRADE EXC. 750 CU. YDS.

Note: Common Channel Excavation Shall be Incorporated into the approach fill.

COMMON EXC. 4536 CU. YDS. EMB. 5137 CU. YDS.
ROCK EXC. 2417 CU. YDS.
SUBGRADE EXC. 607 CU. YDS.

Subgrade Treatment:
Excavate 1.0' Below Profile Grade From Sta. 172 + 00 to Sta. 180 + 50

OLMSTED COUNTY, MINN.

State Proj. No. 55-598-01 CP C116-77-01 C.R. 116 Sheet No. 3 of 7 Sheets