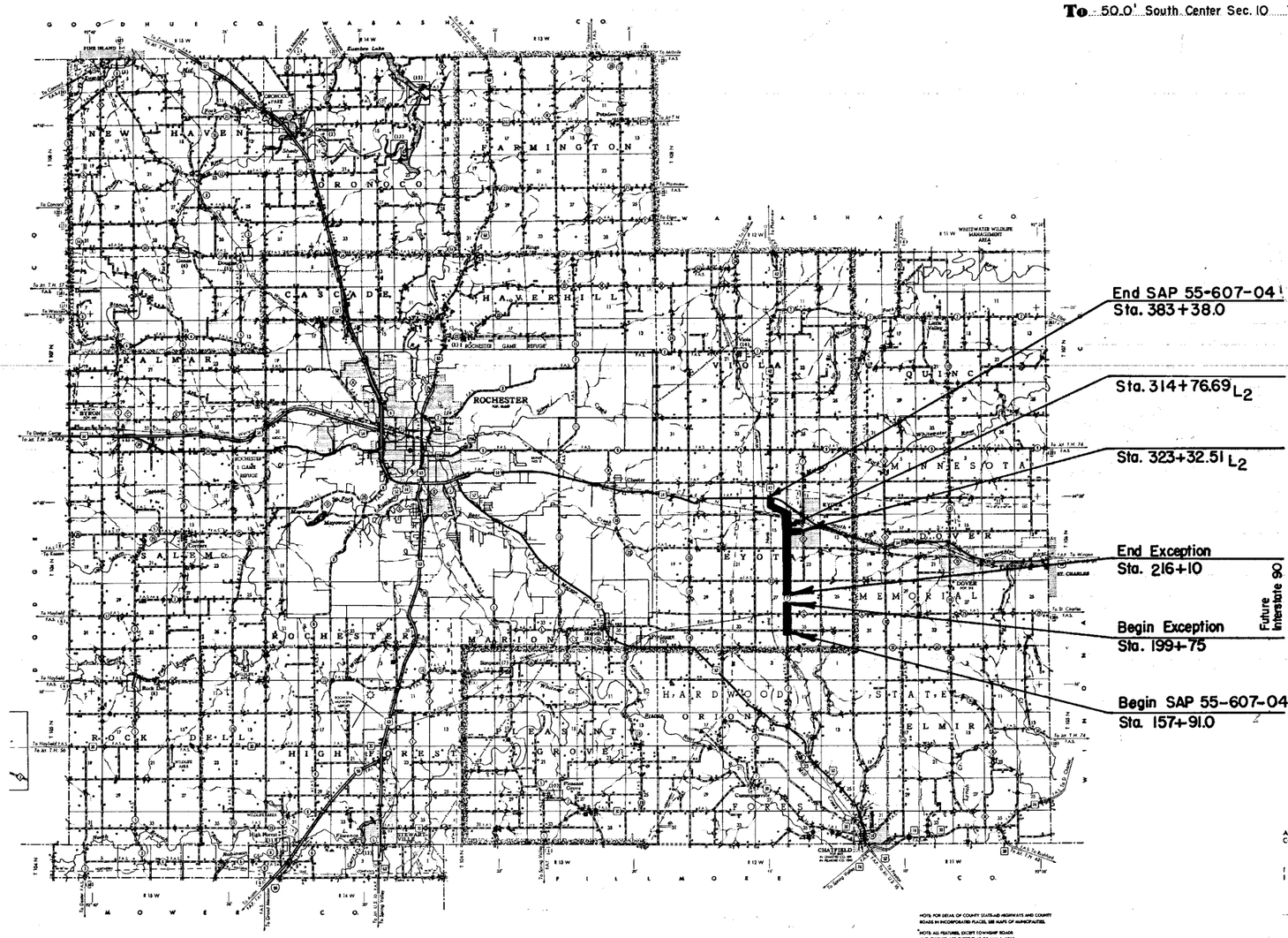
FORM 100-A '65

## 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 (P.I., 45°, P.F.)
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 (W)
CHAIN LINK FENCE (C-L)
RAILROAD SNOW FENCE
STONE WALL OR FENCE
HEDGE
RAILROAD CROSSING SIGN
RAILROAD CROSSING BELL (RR)
ELECTRIC WARNING SIGN
CROSSING GATE
MEANDER CORNER
SPRINGS
MARSH
TIMBER
ORCHARD
BRUSH (TIMBER)
NURSERY
CATCH BASIN (C.B.)
FIRE HYDRANT
CATTLE GUARD
OVERPASS (Highway Over)
UNDERPASS (Highway Under)
BRIDGE
BUILDING (One Story Frame) (U.S.F. 75')
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)

## UTILITIES SYMBOLS

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




Fed. Proj. No.

**STATE OF MINNESOTA**

# DEPARTMENT OF HIGHWAYS

**CONSTRUCTION PLAN FOR** Box Culvert Extension, Grading and Crushed Rock Base Inplace

**COUNTY STATE AID HIGHWAY NO.** 7

**BETWEEN** 2.5 Miles South of Eyota **AND** T.H. No. 14

**From** E 1/4 Corner Section 34 T106N-R12W
Give proper reference to Sections, Township and Range

**To** 50.0' South Center Sec. 10 T106N R12W

GROSS LENGTH 23402.82 FEET 4.432 MILES
BRIDGES-LENGTH 0 FEET ——— MILES
EXCEPTIONS-LENGTH 1635.0 FEET 0.310 MILES
NET LENGTH 21767.82 FEET 4.123 MILES

INDEX OF SHEETS


Sheet No. 1 Title Sheet & Layout Map
" No. 2 Est. Quantities & Typical Sec.
" No. 3 To 11 Plan & Profile
" No. 12 To 45 Cross Sections


DESIGN SPEED 50 M. P. H.

PROJECTED A. D. T. 777

Proj. HCADT Less Than 150

7T Ult 9T TON DESIGN

SOIL FACTOR 100

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.

G. J. Sullivan DATE 3-7-67
County Engineer
Olmsted COUNTY REG. NO. 12077

RECOMMENDED FOR APPROVAL Oswald Tykeson 3/8/ 1967
District State Aid Engineer

RECOMMENDED FOR APPROVAL C.E. Weikselbaum 4-10 1967

APPROVED 4-10-67 1967 Elmer A. Lommen Jr. K.J. Mason
State Aid Engineer

— SPECIFICATIONS —

STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION DATED JANUARY 1, 1964 AS AMENDED BY "SUPPLEMENTAL SPECIFICATIONS" DATED FEBRUARY 1, 1966 SHALL GOVERN.

S.A.P. 55-607-04
State Project No.

Minn. Project No.

Olmsted County, Minnesota. County Proj. No. Plan No. Sheet 1 of 45 Sheets


ALBINSON, INC.
MINNEAPOLIS, MINN. 55415

P.C. 341+42.97

342+40.97
Cast iron Maunment

Construct ℄ Culv. Sta. 342+57
F&I 36"X66' RCP Class II
F&I 2-36" Conc. Aprons for SCP
Place on "C" Bedding

Construct FE Rt. Sta 349+17
F&I 18"X28' CMP
F&I 2-18" Metal Aprons for CMP

Construct FE Rt. Sta. 361+00
F&I 18"X28' CMP
F&I 2-18" Metal Aprons for CMP

Construct FE Lt. Sta. 361+00
F&I 18"X28' CMP
F&I 2-18" Metal Aprons for CMP

Construct FE Rt. Sta. 365+00
F&I 18"X28' CMP
F&I 2-18" Metal Aprons for CMP

Construct FE Lt. Sta. 368+50
F&I 18"X28' CMP
F&I 2-18" Metal Apron for CMP

Construct FE Rt. Sta. 368+50
F&I 18"X28' CMP
F&I 2-18" Metal Aprons for CMP

Δ 72°36'
D 5°00'
T 842.03'
L 1452.0'

P.I. 349+85.0

P.T. 355+94.97

P.O.T. 363+46.4ft
60' F sm.

P.C. 366+65.84

50'
50'

345 350 355 360 365 370

B.M. Elev. 1284.50
Spk. in Tree 70' Lt.
Sta. 361+00

Finished ℄ Grades

Flowline ℄ Culv. Sta. 342+57
Ground Line
-1.1%
50.5 50.0
253.6 52.5 51.4 Inlet 50.3 Outlet 49.2 48.1 47.0
300 200 100 0 100 200 300
+26.5 +39.5

75' Left
75' Right

P.I. + 00
Elev. 54.5
600' V.C.
M=2.4

-0.5%

P.V.C. + 00 Elev.

Inlet Elev. 50.5
Outlet Elev. 50.0

+2.7%

P.V.T. + 00 Elev.
P.V.C. + 18.75 Elev. 63.10625

P.I. + 18.75
Elev. 71.20625
600' V.C.
M=1.20

Elev. 74.50625

P.V.T. + 18.75

+1.1%

P.V.C. + 00 Elev.

P.I. + 00
Elev. 85.3
400' V.C.
M=0.30

P.V.T. + 00 Elev.

+0.5%

Elev. 89.66364

P.V.C. + 72.72727

Subgrade Treatment:
Excavate 1.0' Below Profile Grade
Sta. 345+00 to Sta. 358+00

Subgrade Treatment:
Excavate 1.0' Below Profile Grade
Sta. 361+27 to Sta. 367+40

+17

1300 90 80 70 60 50 40 1230

P.I. 375+08.64

P.T. 381+19.17

Construct 50' Shoulder Radius

383+38.0

T.H. No. 42

380

50'

R.O.W. Marker

Shed

Ho.

59'

375

T.H. No. 14

Construct 50' Shoulder Radius

T 106 N R 12 W SECTION 10 CENTERS

369 +00 Construct Cattle Pass
F&I 48" X 60" X 70' Timber Culv.
F&I 2-48" X 60" End Sections
For Timber Box Culv.
Construct OFF TAKE Ditch Left

Δ 72° 40'
D 6° 00'
Dr 842.80'
L 1453.33'

Construct FE. Rt. Sta. 378+00
F&I 18" X 28' CMP
F&I 2-18" Metal Aprons for CMP

Construct FE. Lt. Sta. 382+00
F&I 18" X 28' CMP
F&I 2-18" Metal Aprons for CMP

Construct ℄ Culv. Sta. 382+88
F&I 24" X 72' RCP Class III
F&I 2-24" Conc. Aprons for SCP
Place Culv. on "B" Bedding

370

P.O. 366+65.84

50' 50'

PLAN

SURVEYED
SURVEYED
NOTE BOOK ALIGNMENT CHECKED
NO. R.O.W. CHECKED
DATE
BY

CL. 10 GR. 8

B.M. Elev. 1290.97
Spk. in Tree 1' Rt.
Sta. 381+30

Finished ℄ Grades

75' Left
75' Right

Elev.

Elev. 89.66364

Elev. 89.36364

+0.5%

-0.6%

+0.0%

-0.3%

Inlet Elev. 80.5
Outlet Elev. 80.2

Profile North Ditch

P.V.T. +00

P.V.C. +72.72727

P.I. +72.72727
Elev. 91.16364
600' V.C.
M=0.825

P.V.T. +72.72727

Special Ditch Right

P.I. +00
Elev. 86.8

Inlet Elev. 83.2
Outlet Elev. 83.0

| +00 | 84.5 | 84.2 | 83.9 | 83.6 | 83.3 | 83.0 | +00 |
|---|---|---|---|---|---|---|---|

Special Ditch Right

EXC 16179
S.G. 3206
EMB 6813

Subgrade Treatment
Excavate 1.0' Below Profile Grade
Sta. 373+00 to Sta. 383+00

PROFILE

NOTE BOOK
NO.

365 370 375 380 385

Sheet 11 of 45

FORM 129c - No. 2 Rev. '

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | SEC. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|---|
| | MINN. | | | | | |

## ESTIMATED QUANTITIES

| SPECIFICATION NO. | ITEM | UNIT | TOTAL ESTIMATED QUANTITIES | MUNICIPAL | RURAL |
|---|---|---|---|---|---|
| 2101.502 | Clearing | Tree | 212 | 6 | 206 |
| 2101.507 | Grubbing | Tree | 168 | 13 | 155 |
| 2104.501 | Remove Portable Culvert | Lin. Ft. | 846 | 200 | 646 |
| 2411.501 | Concrete | Cu. Yd. | 22.94 | 0 | 22.94 |
| 2411.511 | Structure Exc. Class "U" | Cu. Yd. | 41.4 | 0 | 41.4 |
| 2411.541 | Reinforcement Bars | Lbs. | 3414 | 0 | 3414 |
| 2105.501 | Class "A" Excavation | Cu. Yd. | 91866 | 21430 | 70436 |
| 2105.502 | Class "B" Excavation | Cu. Yd. | 6006 | 4 | 6002 |
| 2105.504 | Class "SG" Excavation | Cu. Yd. | 14750 | 4439 | 10311 |
| 2130.501 | Water | M. Gals. | 346 | 99 | 247 |
| 2210.527 | Crushed Rock Base Inplace | Cu. Yd. | 13831 | 3941 | 9890 |
| 2501.511 | F & I 18" CMP Culv. | Lin. Ft. | 1044 | 112 | 932 |
| 2501.511 | F & I 24" CMP Culv. | Lin. Ft. | 36 | 0 | 36 |
| 2501.521 | F & I 24" RCP Culv. Cl. III | Lin. Ft. | 284 | 108 | 176 |
| 2501.521 | F & I 30" RCP Culv. Cl. III | Lin. Ft. | 56 | 0 | 56 |
| 2501.521 | F & I 36" RCP Culv. Cl. III | Lin. Ft. | 144 | 58 | 86 |
| 2501.521 | F & I 42" RCP Culv. Cl. III | Lin. Ft. | 216 | 54 | 162 |
| 2501.522 | F & I 36"x Span RGP-A Culv. Class III | Lin. Ft. | 52 | 52 | 0 |
| 2501.531 | Inst. 18" CM Culv. | Lin. Ft. | 133 | 0 | 133 |
| 2501.536 | Inst. 36" RC Culv. (Aprons) | Lin. Ft. | 16 | 0 | 16 |
| 2515.531 | F & I Metal Apron for 18" CMP | Apron | 72 | 8 | 64 |
| 2515.531 | F & I Metal Apron for 24" CMP | Apron | 2 | 0 | 2 |
| 2515.541 | F & I Conc. Apron for 24" SCP | Apron | 10 | 4 | 6 |
| 2515.541 | F & I Conc. Apron for 30" SCP | Apron | 2 | 0 | 2 |
| 2515.541 | F & I Conc. Apron for 36" SCP | Apron | 4 | 2 | 2 |
| 2515.541 | F & I Conc. Apron for 42" SCP | Apron | 8 | 2 | 6 |
| 2515.542 | F & I Conc. Apron for 36"x Span SCP-A | Apron | 2 | 2 | 0 |
| 2413.511 | Timber Box Culv. 48"X60" | Lin.Ft. | 70 | 0 | 70 |
| 2413.512 | Timber Box Culv. End Section 48"X60" | Section | 2 | 0 | 2 |
| 2123.503 | Motor Grader | Hour | 8 | 0 | 8 |
| 2123.508 | 15 C.Y. (Min) Scraper | Hour | 20 | 0 | 20 |
| 2123.509 | Dozer | Hour | 8 | 0 | 8 |

Note: Item No. 2210.527 Includes 345 Cu. Yds. for Approachs, 170 Cu. Yds. for TWP & County Roads and 1134 Cu. Yds. for Shouldering Between Sta. 157+91.0 & Sta. 179+79.

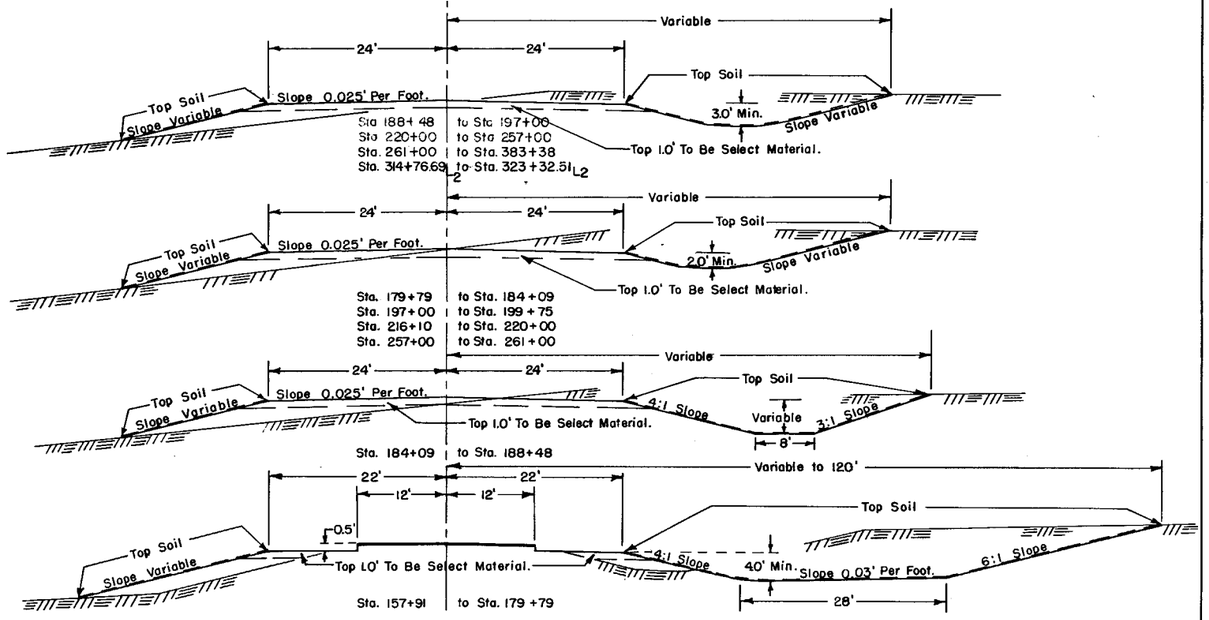
## STANDARD DETAIL PLATES

Standard Detail Plates issued October 1, 19 and submitted for approval by the Division Engineer of the Public Roads Administration October 15, 19 shall govern

| PLATE NO. | STANDARD DETAIL PLATES |
|---|---|
| 3000E | Reinforced Concrete Pipe. |
| 3014 C | Reinforced Concrete Pipe - Arch. |
| 30659 | Connection Bet. Existing Culv. & New "C" Culv. |
| 3100E | Concrete Apron for Reinforced Concrete Pipe. |
| 3110 C | Conc. Apron for Reinforced Conc. Pipe - Arch. |
| 8000C | Standard Barricades |
| 3123E | Metal Apron for C.M. Pipe. |
| 8008C | Contructor's Sign |
| 9000A | Approaches and Entrances. |
| 3060 & 3061 | Timber Box Culv. |

## TYPICAL GRADING SECTIONS

Exception Sta. 199+75 to Sta. 216+10 Interstate " 90




## SPECIAL DETAILS

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 Class "A" 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.

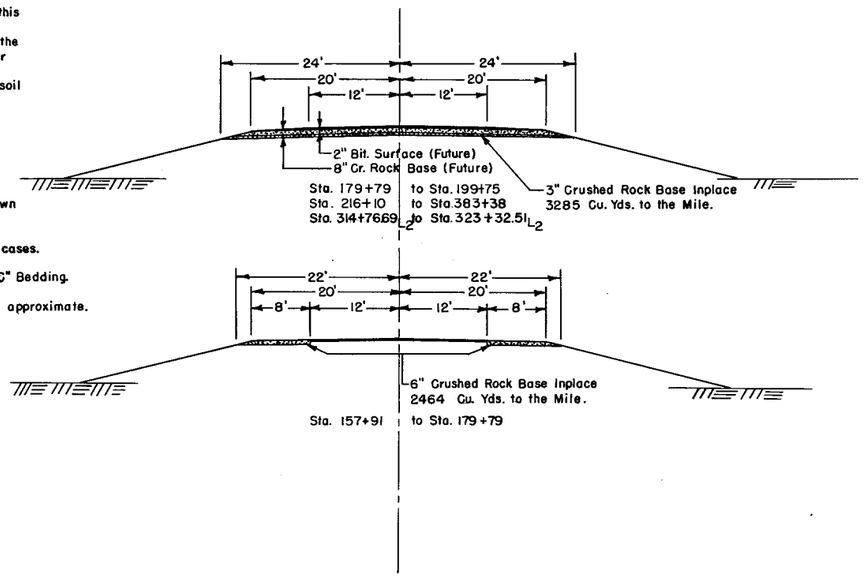
Note: Corrugated metal and Sectional Concrete pipe culvert excavation will be considered incidental and will be under unit price for "Furnish and Install Culvert Pipe."

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 listeb as "SG" excavation. Backfill with select material from R.O.W. Tapers shall be 50:1 in all cases.

Note: Place Sectional Concrete Pipe on Class "B" and Class "C" Bedding.

Note: All dimensions and slopes shown on typical sections are approximate.

## TYPICAL BASE & SURFACE SECTIONS

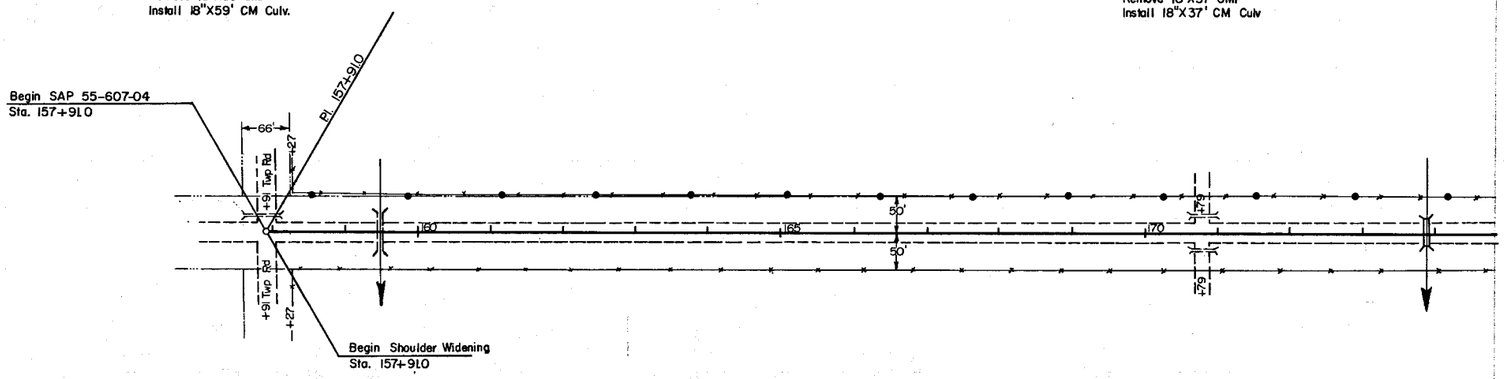



H.A. ROGERS CO.
MPLS. MINN.

S.A.P. 55-607-04
Olmsted County, Minn. Proj. No. Plan No. Sheet No. 2 of 45 Sheets

157+91 Twp Rd Lt
Inpl 18"X52' CMP
2-18" Metal Aprons
Remove and Relay
Remove 18"X59' CMP
Install 18"X59' CM Culv.

170+79 FE Lt
Inpl 18"X30' CMP
2-18" Metal Aprons
Remove and Relay
Remove 18"X37' CMP
Install 18"X37' CM Culv




157+91 Twp Rd Rt
No Culv Inpl
No Change

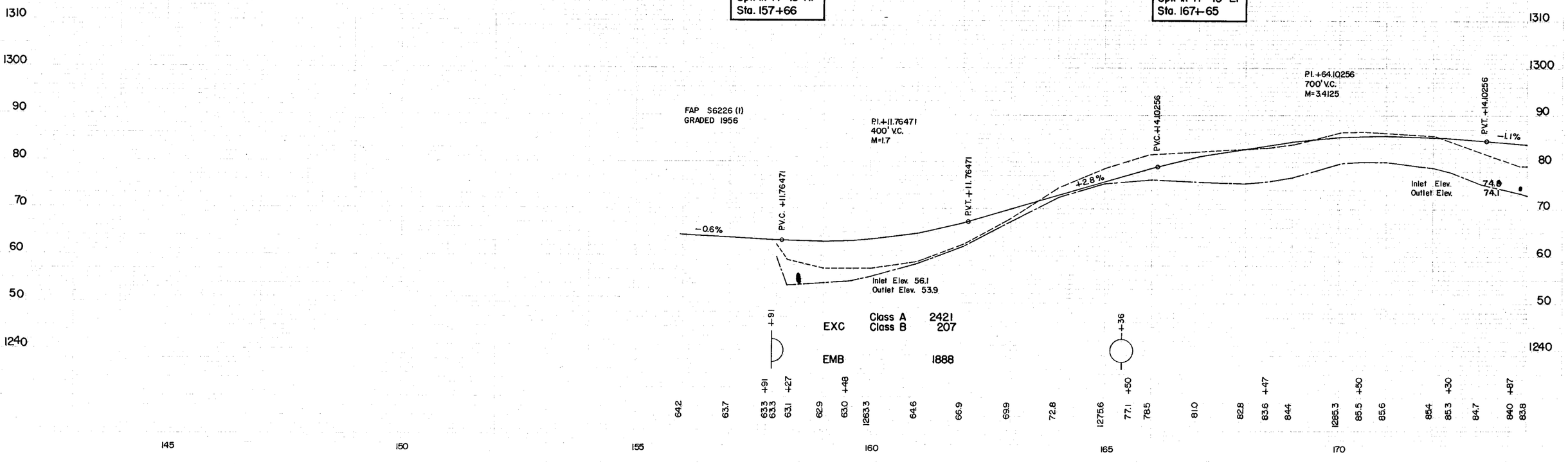
159+49 ℄ Culv
Inpl 36"X48' SCP
2-36" Conc Aprons
Remove 2-36"X8.0' Conc Aprons
Extend
F&I 36"X10' Left & 10' Right RCP Class II
Install 2-36"X8.0' Conc Aprons
Place Culv on C Bedding

170+79 FE Rt
Inpl 18"X30' CMP
2-18" Metal Aprons
Remove and Relay
Remove 18"X37' CMP
Install 18"X37' CM Culv

173+87 ℄ Cattle Pass
Inpl 46"X38'
Extend
9' Left & 9' Right
Concrete 22.94 Cu. Yds.
Reinf. Bars 3414 LBS.
Class "U" Exc. 41.4 Cu. Yds.

BM Elev. 1257.46'
Spk in TP 49' Rt
Sta. 157+66

BM Elev. 1280.50'
Spk in TP 45' Lt
Sta. 167+65



184+31 Twp Rd Lt
No Culv Inpl
FAI 24"X36' CMP
FAI 2-24" Metal Aprons
For CMP

P.O.T. 173+78.50

End Shouldering Begin Grading

P.C. 180+90.80

P.I. 184+32.45
Δ Rt 0°41'
D 0°06'
T 341.65'
L 683.30'

183+81 ℄ Culv
Inpl 24"X46' SCP
2-24" Conc Aprons
Remove 60' Culv.
No Culv Req'd

184+31 CR "G" Rt
Inpl 30"X62' CMP
No Change

184+33 ℄ Culv
Inpl 8' Span 4' Rise X 50.5'
Multiplate with Masonary Foundation
No Change

P.T. 187+74.10

190+68 FE Lt
Inpl 15"X26' CMP
Remove
FAI 18"X28' CMP
FAI 2-18" Metal Aprons
For CMP

Sta. 186+90
FAI 42"X54' RCP Class III
FAI 2-42" Conc Aprons
For SCP
Place Culv. on B Bedding

Sta. 187+00
FAI 42"X54' RCP Class III
FAI 2-42" Conc Aprons
For SCP
Place Culv on B Bedding

Sta. 187+10
FAI 42"X54' RCP Class III
FAI 2-42" Conc Aprons
For SCP
Place Culv on B Bedding

195+89 ℄ Culv
Inpl 18"X42' CMP
Remove
No Culv Req'd

197+32 FE Lt
No Culv Inpl
FAI 18"X28' CMP
FAI 2-18" Metal Aprons
For CMP

P.C. 198+71.24

197+26 FE Rt
Inpl 18"X24' CMP
Remove
FAI 18"X28' CMP
FAI 2-18" Metal Aprons
For CMP

199+64 FE Lt
No Culv Inpl
FAI 18"X28' CMP
FAI 2-18" Metal Aprons
For CMP

199+58 Farm Ent. Rt
Inpl 15"X24' CMP
Remove
FAI 18"X32' CMP
FAI 2-18" Metal Aprons
For CMP

203+34 FE Lt
No Culv Inpl
Interstate 90

P.I. 202+06.36
Δ Lt 0°33'30"
D 0°05'
T 335.12'
L 670.24'

P.T. 205+41.48

201+01 ℄ Culv
Inpl 18"X32' CMP
Interstate 90

Ho.

BM Elev. 1277.49'
Spk in TP 45' Lt
Sta. 178+11

BM Elev. 1272.63'
Spk in PP 205' Rt
Sta. 183+90

BM Elev. 1286.63'
Spk in TP 27' Lt
Sta. 199+73

Cl. 105 Gr. 63

Finished ℄ Grades

Present ℄ Grades

Profile 75' Lt
Profile 75' Rt

P.I.+60
Elev. 76.64
300' V.C.
M=0.1875

P.I.+00
Elev. 73.4
400' V.C.
M=0.750

P.I.+43.79310
Elev. 89.09414
400' V.C.
M=1.450

P.V.C.+10.00 Elev. 78.29
P.V.T.+10.00 Elev. 75.74
P.V.C.+00.00 Elev. 74.6
P.V.T.+00.00 Elev. 75.2
P.V.C.+43.79310 Elev. 87.29414
P.V.T.+43.79310 Elev. 96.69414

-1.1%
-0.6%
-0.4%
+0.5%
+0.9%
+3.8%

Subgrade

Subgrade Treatment
Excavate 1.0' Below Profile Grade
Sta. 179+00 to Sta. 182+50

Subgrade Treatment
Excavate 1.0' Below Profile Grade
Sta. 194+00 to Sta. 199+25

199+75 Begin Interstate 90

Inlet Elev. 69.9
Outlet Elev. 69.6

SPECIAL DITCH LEFT

| | Class A | Class B | Class SG |
|---|---|---|---|
| EXC | 16928 | 5766 | 739 |
| EMB | 17383 | | |

212+90 Farm Ent Lt
Inpl 15"X 24' CMP
No Change
Interstate 90

216+31 FE Lt
No Culv Inpl
F&I 18"X 28' CMP
F&I 2-18" Metal Aprons
For CMP

P.I. 216+60
Δ Lt 0°32'
D 0°05'
T 320.10'
L 640.22'

229+43 ℄ Culv
Inpl 18"X 34' CMP
Remove
F&I 24"X56' RCP Class III
F&I 2-24" Conc Aprons
For SCP
Place Culv on B Bedding
Place Ditch Block

236+93 CSAH 23 Lt
Inpl 24"X 34' CMP
Remove
F&I 24"X48' RCP Class III
F&I 2-24" Conc Aprons
For SCP
Place on B Bedding

P.I. 235+92.56
Δ Rt 0°23'

P.C. 238+11.07

P.O.T. 209+75.38
℄ Proposed Int. 90

℄ E.B.

℄ W.B.

P.C. 213+39.90

P.T. 219+80.12

P.O.T. 220+15.57

Coast & Geodetic Marker

Ho.

85°

140'

110'

℄ E.B. Interstate 90

℄ W.B.

216+48 FE Rt
Inpl 15"X24' CMP
Remove
F&I 18"X28' CMP
F&I 2-18" Metal Aprons
For CMP

218+19 Farm Ent Rt
Inpl 15"X24' CMP
Remove
F&I 18"X32' CMP
F&I 2-18" Metal Aprons
For CMP

220+11 FE Rt
No Culv Inpl
F&I 18"X 28' CMP
F&I 2-18" Metal Aprons
For CMP

236+96 Twp Rd
Inpl 18"X40' CMP
Remove
F&I 18"X36' CMP
F&I 2-18" Metal Aprons
For CMP

Cl. 47 Gr. 48 — Cl. 27 Gr. 19

BM Elev. 1308.89'
Spk in TP 30' Rt
Sta. 210+26

BM Elev. 1311.70'
Spk in TP 27' Rt
Sta. 224+30

BM Elev. 1306.87'
Spk in TP 29' Lt
Sta. 235+82

Finished ℄ Grades: 03.63 07.37 10.29 12.17 13.02 12.83 11.61 10.11 09.5 09.7 09.7 10.8 11.8 12.4 12.8 12.9 12.7 12.2 11.5 10.4 09.3 08.4 07.7 07.2 06.8 06.4 06.0 05.6 05.2 04.8 04.3 03.8 03.1

Finished Grades — Subgrades

Profile 75' Lt

Profile 75' Rt

P.I. 209+25.53
Elev. 16.0
520' V.C.
M= 3.51

P.I.+96.66667
Elev. 08.46333
300' V.C.
M=1.0125

P.I.+00
Elev. 15.2
800' V.C.
M=2.3

P.I.+00
Elev. 08.0
400' V.C.
M=0.4

P.I.+ 00
Elev. 04.0
400 V.C.
M=0.2

Elev. 06.12
+3.8%
P.V.C.+ 61.53
Elev. 11.84
-1.6%
Elev. 10.86333
P.V.T.+85.53
P.V.C.+46.66667
Finished Grade line
Elev. 10.1.1333
Subgrade
+1.1%
Elev. 10.8
P.V.T.+46.66667
P.V.C.+00
216+10 End Interstate
Elev. 10.4
-1.2%
P.V.T.+00
P.V.C.+00
Elev. 07.2
-0.4%
P.V.T.+ 00
Inlet Elev. 03.4
Outlet Elev. 03.0
Elev. 04.8
P.V.C.+00

+75.4

℄ E.B.

℄ W.B.

Subgrade Treatment
Excavate 1.0 Below Profile Grade
Sta. 217+00 to Sta.228+00

Subgrade Treatment
Excavate 1.0' Below Profile Grade
Sta. 230+46 to Sta. 238+00

+00 EXC SG EMB

1520
263
815

+50

Present ℄ Grades: 00.0 02.9 05.0 07.1 1308.6 09.5 09.8 09.3 08.7 1308.7 09.5 10.7 12.6 13.2 +39 14.2 1315.5 15.6 +41 15.7 15.6 +50 15.3 14.3 13.6 +62 13.2 +86 13.0 11.9 +64 1311.5 10.3 08.9 07.5 07.1 +43 06.8 06.7 +43 1306.6 06.6 +46 06.7 06.7 +50 06.7 06.8 06.4 +33 06.2 1306.0 05.4 +65 05.2 04.8 +44 +62 04.8 +80 04.6 +05 04.4 +24 04.1 +52 03.2

210 215 220 225 230 235

247+05 ℄ Culv
Inpl 18"X34' CMP
Remove
No Culv. Req'd

257+17 FE Lt
Inpl 15"X23' SCP
Remove
FBI 18"X28' CMP
FBI 2-18" Metal Aprons
For CMP

258+86 Farm Ent Lt
Inpl 15"X28' CMP
Remove
FBI 18"X32' CMP
FBI 2-18" Metal Aprons
For CMP

260+82 Farm Ent. Lt
Inpl 15"X24' CMP
Remove
FBI 18"X32' CMP
FBI 2-18" Metal Aprons
For CMP

267+85 FE Lt
Inpl 12"X20' CMP
Remove
FBI 18"X28' CMP
FBI 2-18" Metal Aprons
For CMP

P.I. 253+60.78
Δ Lt 1°14'30"
D 0°10'
T 372.46'
L 744.81'

P.I. 271+13.77
Δ Lt 1° 02'
D 0°08'
T 387.60'
L 775.17'

P.I. 241+58.89
Δ Rt 1°16'30"
D 0°11'
T 347.82'
L 695.58'

P.C. 238+11.07

P.T. 245+06.65

P.C. 249+88.32

P.T. 257+33.13

P.O.T. 258+86.60

P.C. 267+26.17

Ho.

Sewer Outlet

Shed

Survey Marker

246+78 FE Rt
No Culv Inpl
FBI 18"X28' CMP
FBI 2-18" Metal Aprons
For CMP

258+86 FE Rt
No Culv Inpl
FBI 18"X28' CMP
FBI 2-18" Metal Aprons
For CMP

266+05 FE Rt
No Culv Inpl
FBI 18"X28' CMP
FBI 2-18" Metal Aprons
For CMP

267+04 ℄ Culv
Inpl 30"X36' CMP
Remove
FBI 30"X56' RCP Class III
FBI 2-30" Conc Aprons
For SCP
Place Culv on B Bedding

Cl 17 Gr 17

BM Elev. 1290.96'
Spk in TP 39' Lt
Sta. 258+70

BM Elev. 1278.03'
Spk in TP 2' Rt
Sta. 267+15

Profile 75' Lt
Profile 75' Rt

P.V.I.+00 Elev. 1301.024
P.V.C.+50 Elev. 1300.996
P.V.I.+50 Elev. 1297.40
P.V.C.+36.66667 Elev. 1294.74000
P.V.I.+36.66667 Elev. 1290.54000
P.V.C.+00 Elev. 1282.2
P.V.I.+00 Elev. 1281.6

P.I.+50
Elev. 98.0
400' V.C.
M=0.25

P.I.+36.66667
Elev. 94.14001
400' V.C.
M= 0.75

P.I.+00
Elev. 76.8
600' V.C.
M= 2.55

-0.8%
-0.3%
-1.8%

Subgrade Treatment
Excavate 1.0' Below Profile Grade
Sta. 247+00 to Sta. 256+50

Subgrade Treatment
Excavate 1.0' Below Profile Grade
Sta. 261+00 to Sta. 269+00

Inlet Elev. 75.5
Outlet Elev. 75.0

EXC 19987
SG 3676
EMB 13623

Finished ℄ Grades
Present ℄ Grades

276+85 FE Lt
No Culv Inpl
F&I 18"X 28' CMP
F&I 2-18" Metal Aprons
For CMP

P.I. 271+13.77
Δ Lt 1°02'
D 0°08'
T 387.60'
L 775.17'

P.T. 275+01.34

P.O.T. 277+39.88

289+59 Twp Rd Lt
Inpl 18"X 32' CMP
Remove
F&I 18"X 36' CMP
F&I 2-18" Metal Aprons
For CMP

P.I. 289+35.88
Δ Rt 0°08' Assumed

302+46 Farm Ent. Lt
Inpl 18"X 28' CMP
Remove
F&I 18"X 32' CMP
F&I 2-18" Metal Aprons
For CMP

T16N R13W
T16N R14W
22 23 15

279+58 FE Rt
No Culv Inpl
F&I 18"X 28' CMP
F&I 2-18" Metal Aprons
For CMP

P.C. 281+61.39

P.I. 285+49.0
Δ Rt 1°02'
D 0°08'
T 387.61'
L 775.17'

288+36 FE Rt
No Culv Inpl
F&I 18"X 28' CMP
F&I 2-18" Metal Aprons
For CMP

P.T. 289+36.66

289+64 FE Rt
Inpl 18"X 24' CMP
Remove
F&I 18"X 28' CMP
F&I 2-18" Metal Aprons
For CMP

Eyota Village Limits

297+97 FE Rt
Inpl 18"X 24' CMP
Remove
F&I 18"X 28' CMP
F&I 2-18" Metal Aprons
For CMP

BM Elev. 1294.12'
Spk in PP 53' Rt
Sta. 279+39

BM Elev. 1286.18'
Spk in TP 30' Rt
Sta. 289+89

BM Elev. 1280.19'
Spk in PP 30' Lt
Sta. 301+78

Finished ℄ Grades

Profile 75' Lt
Profile 75' Rt

P.I.+42.85714
Elev. 93.48571
600' V.C.
M=1.575

Elev. 88.68571

Elev. 91.98571

+1.6%

Elev. 81.6

P.V.C.+42.85714

P.V.T.+42.85714

P.V.T.+00

-0.5%

Elev. 83.7

P.V.C.+00

P.I.+00
Elev. 82.2
600' V.C.
M=1.125

Subgrade Treatment
Excavate 1.0' Below Profile Grade
Sta. 275+50 to Sta. 300+50

+04

EXC 2377
SG 434
EMB 1640

+00

Present ℄ Grades

270 275 280 285 290 295 300

| FED. ROAD DIST. NO. | STATE | FEDERAL PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| | | | | | |

Line 1 Continued on Sheet 9

P.I. 316+04.4 $L_1$ = 314+76.69 $L_2$

Cast Iron Monument

Village Limits

315 ext'd

90° 22'

314+76 F. Ent. Lt.
No Culv. Inpl.
F&I 18"X28' CMP
F&I 2-18" Metal Aprons
For CMP

309+32 ℄ CULV.
INPL. 18"X36' CMP
Remove
F&I 36 1/4" Span X 52' RCP-A Class III
F&I 2-36 1/4" Span Conc Aprons
For SCP-A
Place Culv on B Bedding
Place Ditch Block

315+67 F. Ent. Lt. $L_2$
No Culv. Inpl.
No F. Ent. Req'd

317+76 ℄ Culv.
Inpl. 24"X36" CMP $L_2$
Remove
F&I 36"X58' RCP Class II
F&I 2-36" Conc Aprons
For SCP
Place Culv on C Bedding

321+85 F. Ent. Lt. $L_2$
Inpl. 18"X20' CMP
Remove
F&I 18"X28' CMP
F&I 2-18" Metal Aprons
For CMP

323+20 F. Ent. Rt $L_2$
No Culv. Inpl.
No Culv Req'd

323+30 Curb Starts $L_2$

Drive
No Change

Sta. 323+32.5 $L_2$ = Sta. 5+45.0 S.A.P. 55-607-01

EVERETT AVENUE
SECOND STREET
THIRD STREET
FOURTH STREET
MADISON AVENUE
FRANKLIN AVENUE
1
2
3
4
7
16
17
26

BM ELEV. 1267.85
SPK. TP. 31' RT.
STA. 309+62

BM. ELEV. 1272.17
SPK. PP. 23' RT.
STA. 323+33

Finished ℄ Grades: 78.1 76.2 74.2 72.4 71.1 70.1 69.6 69.3 69.0 68.7 68.4 68.1 66.8 66.35 66.1 65.85 65.6 65.6 66.2 67.3 69.1 69.7 (+33)

Present ℄ Grades: 77.7 75.7 74.1 1272.8 71.7 70.7 70.2 70.0 69.8 1269.8 69.8 69.6 69.4 69.2 68.7 67.2 63.9 1264.2 64.1 62.6 63.2 64.6 646 646 648 65.0 65.3 65.6 1265.9 67.1 68.3 69.3 69.9 70.5 71.9 74.1

Profile 75 Rt.
Profile 75 Lt.

Line 1 Continued on Sheet 9

Line 2

P.I. +00
Elev. 70.2
400' V.C.
M = 0.85

-2.0%
Elev. 74.2
P.V.C. +00
Elev. 69.6
P.V.T. +00
-0.3%
Line 1
Sta. 313+14.63

Inlet Elev. 65.6
Outlet Elev. 65.4

Subgrade Treatment
Excavate 1.0' Below Profile Grade
Sta. 304+50 to Sta. 323+00

| | | |
|---|---|---|
| EXC | Class A | 16155 |
| | Class B | 33 |
| | Class SG | 3603 |
| EMB | | 7154 |

Note: 4938 Cu. Yd.
Class "A" from Sta. 314+76.69 $L_2$
to Sta. 323+32.51 $L_2$

P.I. +00
Elev. 65.1
400' V.C.
M = 1.125

Line 2
Sta. 314+76.69
P.V.C. +00
Elev. 65.6
-0.25%
P.V.T. +00
Elev. 69.1
+2.0%

Inlet Elev. 62.1
Outlet Elev. 59.1

Note: 4938 Cu. Yd.
Class "A" from Sta. 279+00
to Sta. 316+52 $L_1$

Subgrade Treatment
Excavate 1.0' Below Profile Grade
Sta. 319+63 to Sta. 323+33

| | | | |
|---|---|---|---|
| EXC | | 162 | |
| | | EXC | 1345 |
| | | SG | 419 |
| EMB | | 3032 | |
| | | EMB | 916 |

+00 +50 +50 +50 +50 +32 +32 +50 +50 +24 +53 +63 +57 +33

Elevation: 10 20 30 40 50 60 70 80 90 1300

Station: 305 310 315 320 325

Construct ℄ Culv. Sta. 333+71
F&I 42"X 54' RCP Class III
F&I 2-42" Conc. Aprons for SCP
Place Culv. on "B" Bedding

Twp. Rd. Lt. Sta. 339+96
No Culv. Inpl.
No Culv. Req'd.

Construct FE Lt. Sta. 341+50
F&I 18"X28' CMP
F&I 2-18" Metal Aprons for CMP

Mile Post 1980

Construct ℄ Culv. Sta. 339+42
F&I 24"X54' RCP Class III
F&I 2-24" Conc. Aprons for SCP
Place Culv. on "B" Bedding
Skew 10°

P.I. 316+04.4 L 9
Cast Iron Monument

Eyota

C.S.A.H. 7

Construct 50' Shldr. Radius

Village Limits

Dry Run

Twp. Rd.

POT 338+70.0
60° Spa

C.M.W. Ry.

P.C. 341+42.97

342+40.97
Cast Iron Monument

Eyota Village Limits

Sta. 316+04.4 L, CSAH 7 Right
No Culv. Inpl.
No Culv. Req'd.

Construct FE Rt. Sta. 320+50
F&I 18"X28' CMP
F&I 2-18" Metal Aprons for CMP

Twp. Rd. Rt. Sta. 334+88
No Culv. Inpl.
No Culv Req'd.

Construct FE Rt. Sta. 336+50
No Culv. Req'd.

Construct ℄ Culv. Sta. 339+80
F&I 24"X 54' RCP Class III
F&I 2-24" Conc. Aprons for SCP
Place Culv. on "B" Bedding
Place Ditch Blocks
Skew 10°

Cl. 6 Gr. 7

Cl. 0 Gr. 6

B.M. Elev. 1267.36
Spk. in PP 25' Rt.
Sta. 315+25

B.M. Elev. 1251.39
Spk. in Stp. 24' Rt.
Sta. 334+91

Finished Grades

Profile 75' Left
Profile 75' Right

-0.3%
-1.4%
+0.8%
-0.5%

P.V.C.+00 Elev.
P.V.T.+00 Elev.
P.V.C.+00 Elev.
P.V.T.+00 Elev.
P.V.C.+25.0 Elev. 56.4
P.V.T.+75.0 Elev. 56.625
P.V.C.+00 Elev.

P.I.+00
Elev. 66.0
400' V.C.
M=0.550

P.I.+00
Elev. 50.6
400' V.C.
M=1.4

P.I.+00
Elev. 57.0
150' V.C.
M=0.24375

P.I.+00
Elev 54.5
600' V.C
M=2.4

Inlet Elev 47.5
Outlet Elev. 47.0

Inlet Elev. 53.3
Outlet Elev. 52.9

Inlet Elev. 53.1
Outlet Elev. 52.7

Subgrade Treatment:
Excavate 1.0' Below Profile Grade
Sta. 325+00 to Sta. 330+50

EXC 3837
S.G. 1724
EMB 5909

EXC 5955
S.G. 686
EMB 3975

Sheet 9 of 45