FORM 100-A '65

Fed. Proj. No.

PLANS SYMBOLS

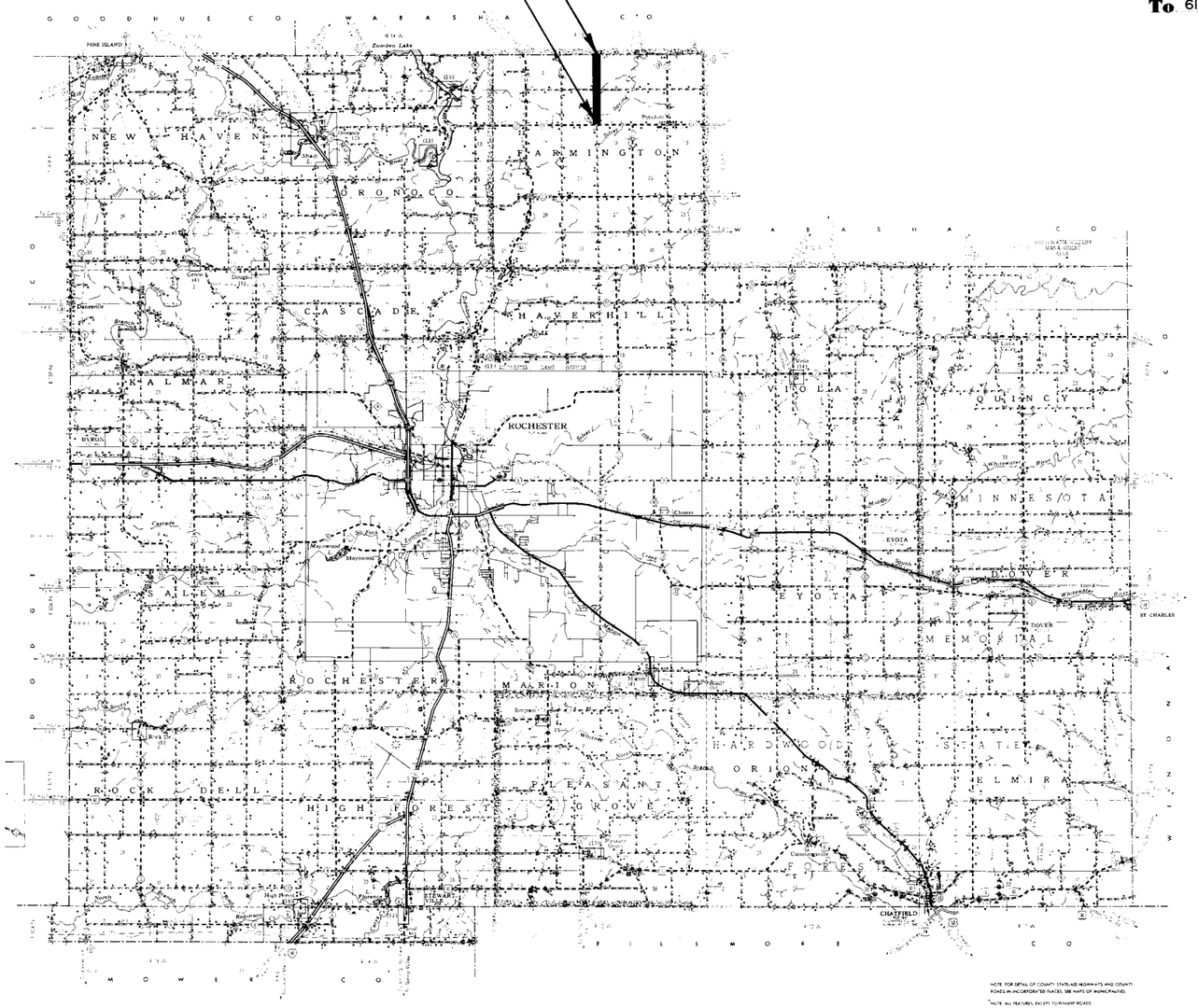
STATE LINE
COUNTY LINE
TOWNSHIP OR RANGE LINE
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
RIGHT-OF-WAY LINE
PRESENT RIGHT-OF-WAY LINE
CONTROL OF ACCESS LINE
PROPERTY LINE (Except Land Lines)
VACATED PLATTED PROPERTY
CORPORATE OR CITY LIMITS
TRUNK HIGHWAY CENTER LINE
RETAINING WALL
RAILROAD
RAILROAD RIGHT 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)

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

End C.P. H-65
Sta. 108+75

Begin C.P. H-65
Sta. 0+00



NOTE: FOR DETAIL OF COUNTY STATE-AID HIGHWAYS AND COUNTY ROADS IN INCORPORATED PLACES, SEE MAPS OF MUNICIPALITIES

*NOTE: ALL FEATURES, EXCEPT TOWNSHIP ROADS, AND CULTURE, ARE CURRENT AS OF JAN. 1, 1962.

STATE OF MINNESOTA

DEPARTMENT OF HIGHWAYS

CONSTRUCTION PLAN FOR Grading and Crushed Rock Base Inplace

COUNTY **HIGHWAY NO.** H

BETWEEN T.H. No. 247 **AND** Olmsted-Wabasha County Line

From Southeast Corner Section 9 T108N-R13W
(Give proper reference to Sections, Township and Range)

To 619.16' East of the Northeast Corner Section 4 T108N-R13W

GROSS LENGTH	10,875.0 FEET	2.059	MILES
BRIDGES-LENGTH	0 FEET	0.0	MILES
EXCEPTIONS-LENGTH	0 FEET	0.0	MILES
NET LENGTH	10,875.0 FEET	2.059	MILES

INDEX OF SHEETS

Sheet No 1 Title Sheet & Layout Map
" No 2 Est Quantities & Typical Sec
" No 3 To 6 Plan & Profile
" No 7 To 28 Cross Sections

DESIGN SPEED 50 M. P. H.

PROJECTED A. D. T. 258

_____ TON DESIGN

SOIL FACTOR _____

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

COUNTY REG. NO.

RECOMMENDED FOR APPROVAL , 19
DISTRICT STATE AID ENGINEER

RECOMMENDED FOR APPROVAL , 19

APPROVED , 19
STATE AID ENGINEER

— SPECIFICATIONS —

STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION DATED JANUARY 1, 1964 SHALL GOVERN.

Minn. Project No. _____ S.A.P. _____
State Project No. _____

Olmsted County, Minnesota. County Proj. No. H-65 Plan No. _____ Sheet 1 of 28 Sheets

ALBINSON, INC.
MINNEAPOLIS, MINN. 55415

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	239		
2101.507	Grubbing	Tree	228		
2104.501	Remove Portable Culverts	Lin. Ft.	630		
2104.520	Remove Masonary Structure (Sta. 12+28)	Structure	One		
2105.502	Class B Excavation	Cu.Yd.	794		
2105.501	Class A Excavation	Cu. Yd.	116258		
2105.504	Class SG Excavation	Cu. Yd.	5065		
2130.501	Water	M.Gal.	142		
2210.527	Crushed Rock Base Inplace	Cu.Yd. (V.M)	5710		
2501.511	F&I 18" CMP Culverts	Lin. Ft	586		
2501.511	F&I 24" CMP Culverts	Lin. Ft.	48		
2501.521	F&I 24" RCP Culv. Class II	Lin. Ft.	236		
2501.521	F&I 36" RCP Culv. Class II	Lin. Ft.	140		
2501.521	F&I 54" RCP Culv. Class II	Lin. Ft.	160		
2515.531	F&I Metal Aprons for 18" CMP	Apron	36		
2515.531	F&I Metal Aprons for 24" CMP	Apron	2		
2515.541	F&I Conc Aprons for 24" SCP	Apron	6		
2515.541	F&I Conc Aprons for 36" SCP	Apron	4		
2515.541	F&I Conc Aprons for 54" SCP	Apron	6		

* Item No. 2210.527 Includes 255 Cu. Yds. for Approaches and 100 Cu. Yds. For Twp Rds.

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
3000 C	Reinforced Concrete Pipe
3100 D	Concrete Apron for Reinforced Concrete Pipe
3126 C	
3122 C	Metal Apron for C.M. Pipes
9000	Approaches and Entrances

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.

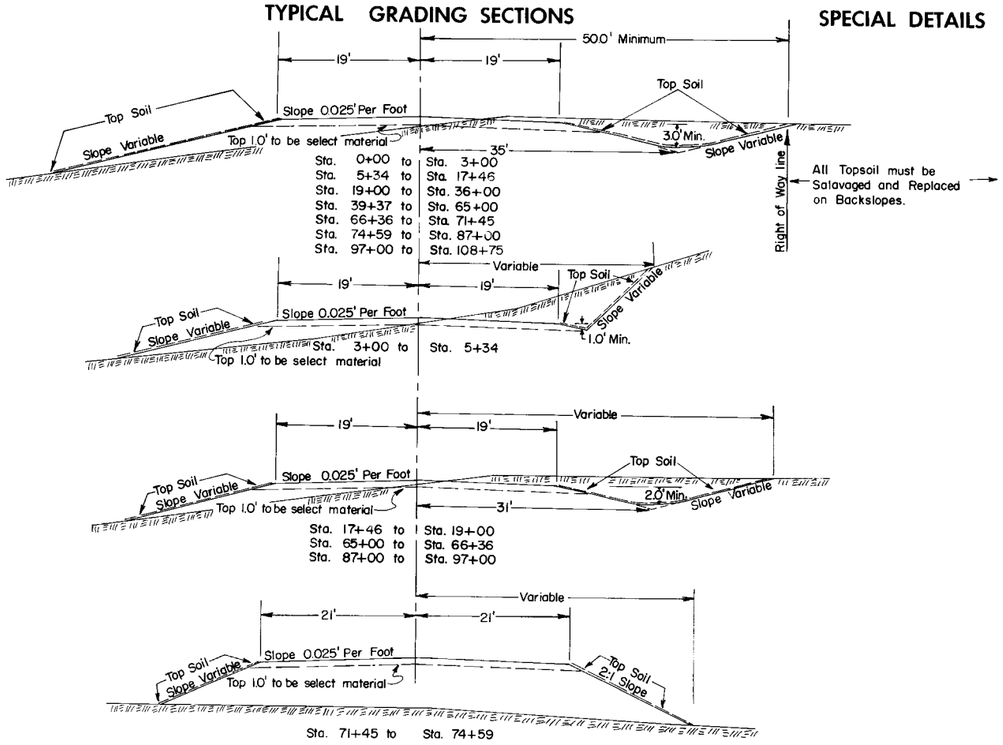
Note: Corragated metal and Sectional Concrete pipe culverts excavation will be considered incidental, and will be under unit price for "Furnish and Install Culvert Pipe".

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 listed 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 "C" Bedding.

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

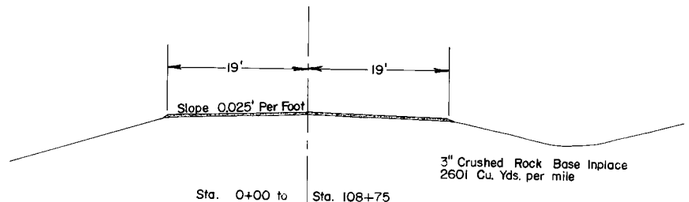
TYPICAL GRADING SECTIONS



All Topsoil must be Salvaged and Replaced on Backslopes.

SPECIAL DETAILS

TYPICAL BASE & SURFACE SECTIONS



PLAN

SURVEYED	BY
PLOTTED	DATE
ALIGNMENT CHECKED	
R/W OR WAY CHECKED	
NOTE BOOK	
NO.	

PROFILE

SURVEYED	BY
PLOTTED	DATE
GRADE CHECKED	
B.M.'s NOTED	
STRUCTURE NOTATING CHKD	
NOTE BOOK	
NO.	

T10N R16W | T10N R15W | T9N R16W | T9N R15W

1" Pipe Inplace

150'

Number 247 State Highway

176

MHD Rt. Marker

66' Twp Rd

Begin C.R. H-65
0+00

Town Hall

Ho.

12+18 Construct ℄ Culv.
FBI 54"X46' RCP Class III
FBI 2-54" Conc Aprons
For SCP
Place on "C" Bedding

12+38 Construct ℄ Culv
FBI 54"X46' RCP Class III
FBI 2-54" Conc Aprons
For SCP
Place on "C" Bedding

0+34 ℄ Culv
Inpl 18"X42' CMP
2-18" Metal Aprons
Extend 14' Lt. & 16' Rt.
Remove and Replace
2-18" Metal Aprons

2+95 FE & Driveway Rt
Inpl 15"X44' CMP
Remove
FBI 18"X32' CMP
FBI 2-18" Metal Aprons
For CMP

2+40 Construct FE Rt
FBI 18"X28' CMP
FBI 2-18" Metal Aprons
For CMP

11+12 FE Rt
No Culv Inpl
No Culv Req'd

12+28 ℄ Culv
Inpl 5'X6'X30' Masonery & Conc Culv & I Beams
Remove
Move to Sta. 12+18 & 12+38

17+72 Farm Ent. Rt
Inpl 18"X20' CMP
Remove
FBI 18"X32' CMP
FBI 2-18" Metal Aprons
For CMP

19+35 Walkway Rt
Inpl 18"X10' CMP
Remove
Remove Walkway

B.M. Elev. 1075.61'
Spk in PP 120' Lt
Sta. 0+69

B.M. Elev. 1060.33'
X in SE Cor Hdwl
Sta. 12+28

Cl. 10 Gr. 8

Cl. 66 Gr. 66

Finished ℄ Grades

-1.23%
Special Ditch Lt

PI 1+00
Elev. 72.0
150' V.C.
M=0.69375

Elev. 72.75
Elev. 74.025
+2.7%
-10%

P.V.C.+25
PVT+75

Profile 75' Lt
Profile 75' Rt

PI 1+00
Elev. 82.8
650' V.C.
M=5.6875

Elev. 68.825
Elev. 67.21529
-4.3%
P.V.T.+25
P.V.C.+20
43523

Subgrade Treatment
Excavate 1.0' Below Profile Grade
Sta. 0+33 to Sta. 6+35

-1.46%
Special Ditch Rt

Inlet Elev. 55.0
Outlet Elev. 53.5

PI 12.43523
Elev. 52.16528
700' V.C.
M=8.44375

Elev. 70.89028
+5.36%
PVT 6243523

Subgrade Treatment
Excavation 1.0' Below Profile Grade
Sta. 12+50 to Sta. 14+20

C.A 5807
EXC SG 122
EMB 398

EXC Class A 8627
Class SG 695
EMB 5495

EXC Class A 11932
Class SG 455
EMB 7119

Present ℄ Grades

0 5 10 15 20

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

25+64 School Ent. Lt
Inpl 15"X 54' CMP
Remove
FBI 18"X 28' CMP
FBI 2-18" Metal Aprons
For CMP

35+45 FE Lt
Inpl Culv Buried
FBI 18"X28' CMP
FBI 2-18" Metal Aprons
For CMP

38+82 Farm Ent. Lt
Inpl 15"X 20' CMP
Remove
FBI 18"X32' CMP
FBI 2-18" Metal Aprons
For CMP

52+68 Twp Rd Lt
Inpl 24"X 30' CMP
Remove
FBI 24"X48' CMP
FBI 2-24" Metal Aprons
For CMP

PLAN
SURVEY BY
DESIGNED
QUANTITIES
ALIGNMENT CHECKED
RT OF WAY CHECKED
NOTE BOOK
NO.
DATE

33+92 FE Rt
No Culv Inpl
No Culv. Req'd

35+09 ℄ Culv
Inpl 24" X 32' CMP
Remove
FBI 24"X 72' RCP Class 2
FBI 2-24" Conc Aprons
For SCP
Place on "C" Bedding
FBI Approved Joint Fasteners
See Special Provisions

38+82 FE Rt
Inpl 15"X 20' CMP
Remove
FBI 18"X28' CMP
FBI 2-18" Metal Aprons
For CMP

40+93 FE Rt
No Culv. Inpl
FBI 18"X28' CMP
FBI 2-18" Metal Aprons
For CMP

47+96 ℄ Culv
Inpl 72"X 30' CMP
Masonry Hdwls & Wings
Remove
FBI 54"X 68' RCP Class 2
FBI 2-54" Conc Aprons
For SCP
Place on Class "C" Bedding

51+92 FE Rt
Inpl 15"X 20' CMP
Remove
No Culv. Req'd

52+75 Twp Rd Rt
No Culv Inpl
No Culv. Req'd

B.M. Elev. 1125.24'
Spk in PP 34' Lt
Sta. 26+39

B.M. Elev. 1122.40'
Spk in PP 28' Lt
Sta. 38+54

B.M. Elev. 1096.39'
Spk in TP 22' Rt
Sta. 52+45

Finished Grade
Profile 75' Lt
Profile 75' Rt

P.I. +00
Elev. 37.1
800' V.C.
M= 9.35'

P.I. +00
Elev. 16.1
400' V.C.
M=2.65'

P.I.+12.34567
Elev. 30.18395
750' V.C.
M= 759375'

P.I. +50
Elev. 87.4
700' V.C.
M=8.225'

Subgrade Treatment
Excavate 1.0' Below Profile Grade
Sta. 26+47 to Sta. 30+70

Subgrade Treatment
Excavate 1.0' Below Profile Grade
Sta. 38+85 to Sta. 43+25

Inlet Elev. 13.5
Outlet Elev. 06.5

Inlet Elev. 84.0
Outlet Elev. 82.5

	EXC	Class A	Class SG
+61	EMB	12164	304
+35	EMB	2909	243
+62	EMB	8204	387
+72	EMB	9249	300
	EMB	7116	
	EMB	1785	
	EMB	4826	
	EMB	7029	

PROFILE
SURVEY BY
DESIGNED
QUANTITIES
ALIGNMENT CHECKED
RT OF WAY CHECKED
NOTE BOOK
NO.
DATE

BRUNER NO. 5081

F.A.D. ROAD DIST. NO	STATE	FEDERAL PROJ. NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS

55+83 FE Lt
No Culv Inpl
F&I 18"X32' CMP
F&I 2-18" Metal Aprons
For CMP

63+49 ℄ Culv
Inpl 36"X34' CMP
Remove
F&I 36"X72' RCP Class 2
F&I 2-36" Conc Aprons
For SCP
Place on "C" Bedding

64+64 FE Lt
Inpl 15"X24' CMP
Remove
F&I 18"X28' CMP
F&I 2-18" Metal Aprons
For CMP

74+59 ℄ Culv
Inpl 36"X32' CMP
Remove
F&I 36"X68' RCP Class 2
F&I 2-36" Conc Aprons
For SCP
Place on "C" Bedding
F&I Approved Joint Fasterners
See Special Provisions

81+47 ℄ Culv
Inpl 24"X32' CMP
Remove
F&I 24"X66' RCP Class 2
F&I 2-24" Conc Aprons
For SCP
Place on "C" Bedding

Office Revision
P.I. 78+92.76
Δ Lt 1°00'
D 0°08'
T 375.09'
L 750.11'

ROT. 56+37.58
Windmill
P.C. 64+07.03
P.I. 68+15.38
Δ Rt 1°38'
D 0°12'
T 408.35'
L 816.65'
P.T. 72+23.68
P.C. 75+17.67
P.I. 78+92.76
Δ Rt 1°00'
D 0°08'
T 375.09'
L 750.11'
P.T. 82+67.78
P.C. 83+83.75

64+88 Farm Ent. Rt
Inpl 15"X24' CMP
Remove
F&I 18"X32' CMP
F&I 2-18" Metal Aprons
For CMP

PLAN
DESIGNED
DRAWN
PLOTTED
CHECKED
NOTE BOOK
NO.

PROFILE
APPROVED
DRAWN
PLOTTED
CHECKED
NOTE BOOK
NO.
SIGNATURE NOTATIONS REQUIRED

B.M. Elev. 1117.97'
Spk in TP 27' Rt
Sta. 68+53

B.M. Elev. 1093.00'
Spk in TP 31' Rt
Sta. 80+71

Cl. 1 Gr. 1 — Cl. 2 Gr. 3 — Cl. 19 Gr. 20 — Cl. 24 Gr. 16 — Cl. 0 Gr. 1

Finished Grades

P.I. +50
Elev. 98.2
500' V.C.
M= 4.0'

P.I. +00
Elev. 16.9
600' V.C.
M= 3.825'

P.I. +50
Elev. 16.2
700' V.C.
M=5.775'

P.I.+53.84615
Elev. 93.88462
500' V.C.
M= 4.0625'

+3.6%
-3.0%
+3.4%
1.7%
+4.8%

P.V.T. & P.V.C. +00
P.V.T. & P.V.C. +00
P.V.T. +00
P.V.C. +03.84615
P.V.T. +03.84615
P.V.C. +50

Elev. 05.7
Elev. 06.7
Elev. 11.8
Elev. 98.13462
Elev. 05.88461
Elev. 12.9

Profile 75' Lt
Profile 75' Rt

Subgrade Treatment
Excavate 1.0' Below Profile Grade
Sta. 54+25 to Sta. 59+15

Inlet Elev. 94.8
Outlet Elev. 93.0

Subgrade Treatment
Excavate 1.0' Below Profile Grade
Sta. 66+65 to Sta. 69+75

Inlet Elev. 98.8
Outlet Elev. 93.4

Subgrade Treatment
Excavate 1.0' Below Profile Grade
Sta. 76+35 to Sta. 80+50

Inlet Elev. 93.0
Outlet Elev. 89.7

| | | | | |

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

86+25 FE Lt
Inpl 18"X30' CMP
Remove
F&I 18"X28' CMP
F&I 2-18" Metal Aprons
For CMP

89+10 Walkway Lt
No Culv Inpl
Remove

90+55 Farm Ent. Lt.
Inpl 15"X24' CMP
Remove
F&I 18"X32' CMP
F&I 2-18" Metal Aprons
For CMP

92+06 FE Lt
Inpl 15"X20' CMP
Remove
F&I 18"X28' CMP
F&I 2-18" Metal Aprons
For CMP

95+40 FE Lt
Inpl 18"X20' CMP
Remove
F&I 18"X28' CMP
F&I 2-18" Metal Aprons
For CMP

96+70 FE Lt
Inpl 18"X22' CMP
Remove
F&I 18"X28' CMP
F&I 2-18" Metal Aprons
For CMP

Pl. 89+04.85
Δ Lt 4°10'
D 02°24'
T 521.08'
L 1041.68'

Ho.

PT 94+25.43

Wabasha Olmsted

Pl. 104+270
Δ Rt 9°56'

Loading Chutte

PC 88+83.75

Pl. 98+27.88
Δ Rt 1°56'
D 09°11'
T 341.26'
L 682.41'

PC 100+38.31

PT 101+69.03

Pl. 104+20
Δ Rt 90°56'
D 15°00'
T 388.69'
L 606.22'

107+00 ℄ Culv
Inpl 24"X 36'CMP
Remove
F&I 24"X 98' RCP Class II
F&I 2-24" Conc Aprons
For SCP
Place on "C" Bedding

86+24 FE Rt
Inpl 18"X 20'CMP
Remove
F&I 18"X28' CMP
F&I 2-18" Metal Aprons
For CMP

92+00 Double FE Rt
Inpl 15"X32' CMP
Remove
F&I 18"X56' CMP
F&I 2-18" Metal Aprons
For CMP

PC 94+86.62

PT 106+43.53

County County

End C.P H-65
Sta. 108+75

PLAN
SURVEYED:
PLOTTED:
NOTE BOOK:
RIGHT OF WAY CHECKED:
DATE
BY
NO

Cl. 33 Gr. 35 — Cl. 40 Gr. 43 — Cl. 5 Gr. I

B.M. Elev. 1116.71'
Spk in TP 18' Rt
Sta. 94+55

B.M. Elev. 1088.08
Spk in TP 35' Rt
Sta. 102+37

Finished Grade 057.7

Grade Change 22.7

Profile 75' Lt
Profile 75' Rt

Elev. 1129

Elev. 0586461

+4.8%

P.V.C. +50

P.V.T. +50

P.I.+00
Elev. 29.7
700' V.C.
M= 7.0'

Elev. 1185

Subgrade Treatment
Excavate 1.0' Below Profile Grade
Sta. 87+35 to Sta. 97+25

-3.2%

P.V.T. 034615

P.I.+00
Elev. 78.5
500' V.C.
M= 3.1875'

Elev. 865

Elev. 832.5

+1.9%

P.V.C. +50

P.V.T. +50

+75

EXC Class A 5744
Class SG 126

+48

EMB 3954

EXC Class A 19828
Class B 794
Class SG 1100

EMB 13407

PROFILE
SURVEYED:
PLOTTED:
NOTE BOOK:
GRADES CHECKED:
RIGHT OF WAY CHECKED:
DATE
BY
NO