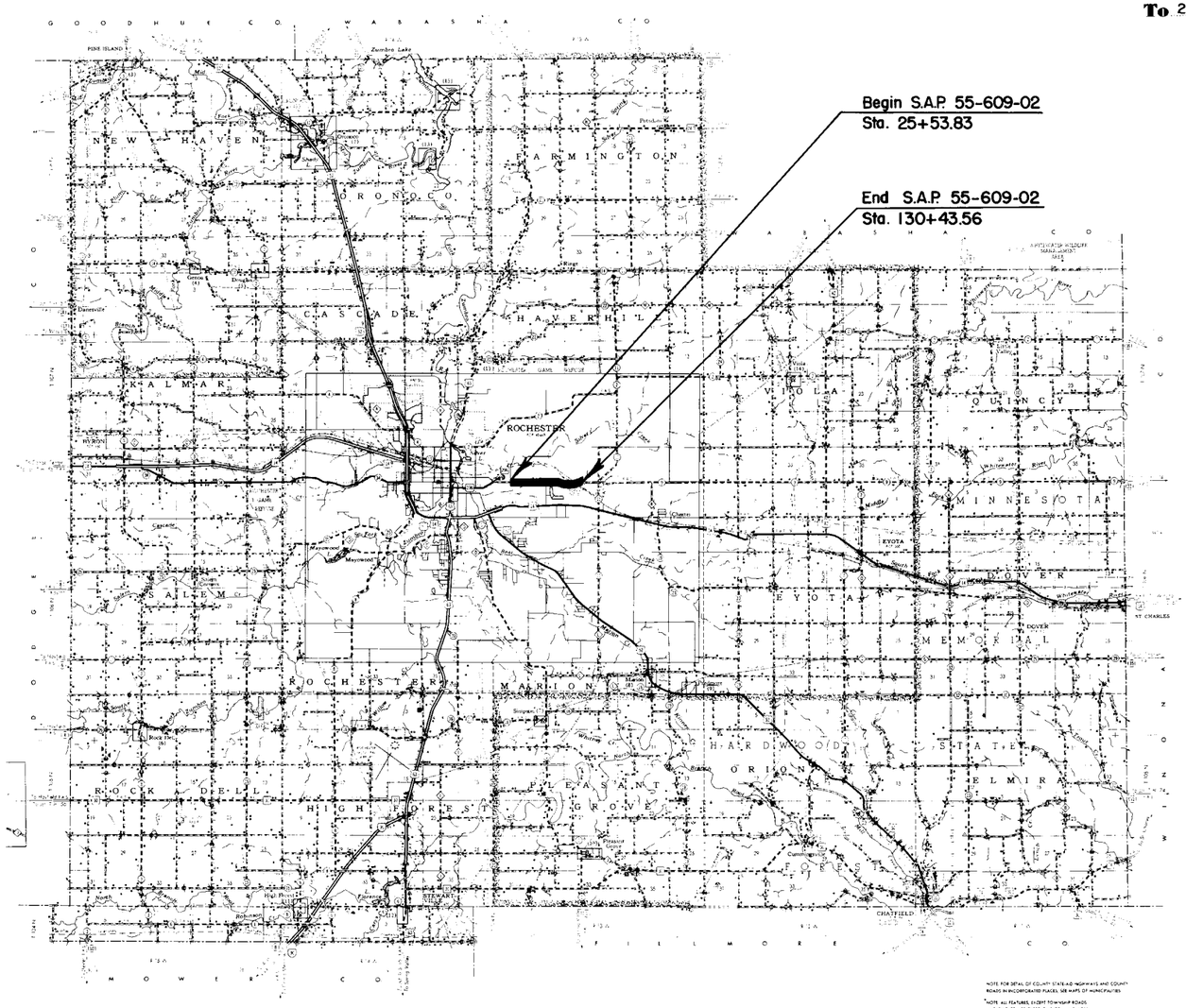
FORM 100-A '65

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
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
(TIMBER)
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



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

*NOTE ALL FEATURES, EXCEPT TOWNSHIP ROADS AND CULTURE ARE CURRENT AS OF JAN 1, 1965

— SPECIFICATIONS —
STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION DATED JANUARY 1, 1968

Fed. Proj. No.

STATE OF MINNESOTA

DEPARTMENT OF HIGHWAYS

CONSTRUCTION PLAN FOR Grading, Box Culverts and Aggregate Base Inplace

COUNTY STATE AID HIGHWAY NO. 9

BETWEEN East City Limits of Rochester **AND** 706.13' E. of C&NW Railway

From South 1/4 Corner Section 31 T107N-R13W
Give proper reference to Sections, Township and Range

To 2734.13' West of the SW Corner Section 33 T107N-R13W

GROSS LENGTH	10,489.73	FEET 1.987	MILES
BRIDGES-LENGTH	0	FEET 0	MILES
EXCEPTIONS-LENGTH	0	FEET 0	MILES
NET LENGTH	10,489.73	FEET 1.987	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 30	Cross Sections	

DESIGN SPEED 50 M. P. H.

PROJECTED A. D. T. 2093

9 TON DESIGN

SOIL FACTOR 75-100

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. Ludwig — DATE 3-3-66
COUNTY ENGINEER

Olmsted COUNTY REG. NO 1207

RECOMMENDED FOR APPROVAL Claude Zfleitner 3/4/ 19 66
DISTRICT STATE AID ENGINEER

RECOMMENDED FOR APPROVAL C. E. Weichselbaum 4-14 19 66

APPROVED , 19
STATE AID ENGINEER

MICRO-FILMED

Minn. Project No.

S.A.P. 55-609-02
State Project No.

Olmsted County, Minnesota. County Proj. No. Plan No. Sheet 1 of 30 Sheets

ALBINSON, INC.
MINNEAPOLIS, MINN. 55415

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
	2101.501	Clearing	Acre	2.04		
	2101.502	Clearing	Tree	87		
	2101.506	Grubbing	Acre	2.04		
	2101.507	Grubbing	Tree	108		
	104.5	Back Fill Structure (Sta.123+50) (See Special Provisions)	Structure	One		
	2104.501	Remove Portable Culverts	Linear Foot	877		
	2104.520	Remove Conc. Box Culvert (Right Sta. 117+10)	Structure	One		
	2104.521	Remove 24" Metal Aprons	Apron	2		
	2104.521	Remove 29" Span Metal Aprons	Apron	2		
	2105.501	Common Excavation	Cu.Yd.	19,516		
	2105.503	Rock Excavation	Cu.Yd.	87541		
	2105.507	Subgrade Excavation	Cu.Yd.	3,675		
	2105.525	Top Soil Borrow	Cu.Yd.	2,128		
*	2123.501	Common Laborers	Hour	30		
**	2123.503	Motor Grader	Hour	20		
**	2123.508	Min. 15 Cu.Yd. Scraper	Hour	20		
**	2123.509	Dozer	Hour	10		
	2211.502	Aggregate Base Inplace (See Special Provisions)	Cu.Yd.	11248		
	2411.501	Concrete	Cu.Yd.	312.1		
	2411.511	Structure Excavation Class U	Cu.Yd.	417		
	2411.541	Reinforcement Bars	Pound	50,545		
	2413.511	Timber Box Culv. 60"X48"D	Linear Foot	52		
	2413.512	Timber Culv. End Section 60"X48"D	Section	2		
	2501.511	FAI 18" CMP Culv.	Linear Foot	266		
	2501.511	FAI 24" CMP Culv.	Linear Foot	26		
	2501.512	FAI 29" Span CMP-A Culv.	Linear Foot	24		
	2501.523	FAI 18" RCP Culv. Class II	Linear Foot	128		
	2501.523	FAI 36" RCP Culv. Class II	Linear Foot	88		
	2501.523	FAI 42" RCP Culv. Class III	Linear Foot	106		
	2501.571	Install CM Culv. Aprons	Linear Foot	121		
	2506.507	Construct Catch Basin Design C	Linear Foot	3.7		
	2506.521	Install Casting	Assembly	One		
	2501.532	FAI Metal Aprons for 18" CMP	Apron	12		
	2515.536	FAI Conc Aprons for 18" SCP	Apron	One		
	2515.536	FAI Conc Aprons for 36" SCP	Apron	2		
	2515.536	FAI Conc Aprons for 42" SCP	Apron	2		

Note: Item 2211.502 includes 410 Cu. Yds. For Approaches 160 Cu.Yds. For County and TWP Roads.

* For Removing Fence along area where Old Road is being Obliterated.

** For Obliterating Old Road.

STANDARD DETAIL PLATES

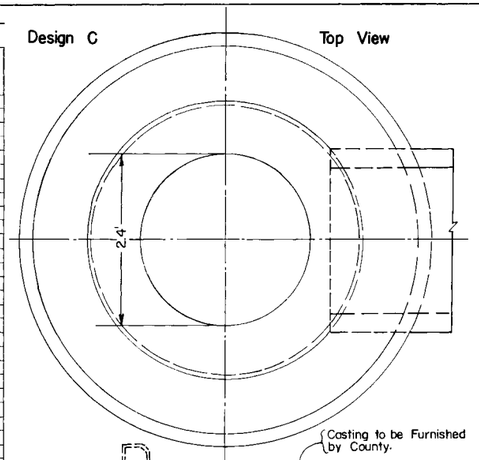
Standard Detail Plates issued October 1, 19 and submitted for approval by the Division Engineer of the Public Roads Administration October 15, 19 shall govern

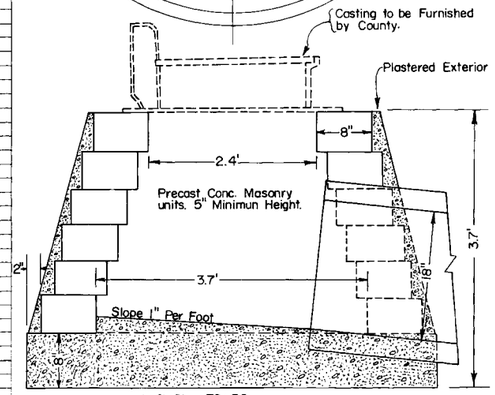
PLATE NO.	STANDARD DETAIL PLATES
3000 E	Reinforced Concrete Pipe
3040	Corrugated Metal Pipe Arch
3060 B	
3061	Timber Box Culvert
3100D B	
3100 E	Concrete Apron for Reinf. Conc. Pipe
3123E	Metal Apron for CM Pipes.
4002C	Masonry Catch Basin
9000 ?	Approaches and Entrances.
8000 C A	Standard Barricades

8002 C

Design C

Top View





Left Sta. 78+56

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.

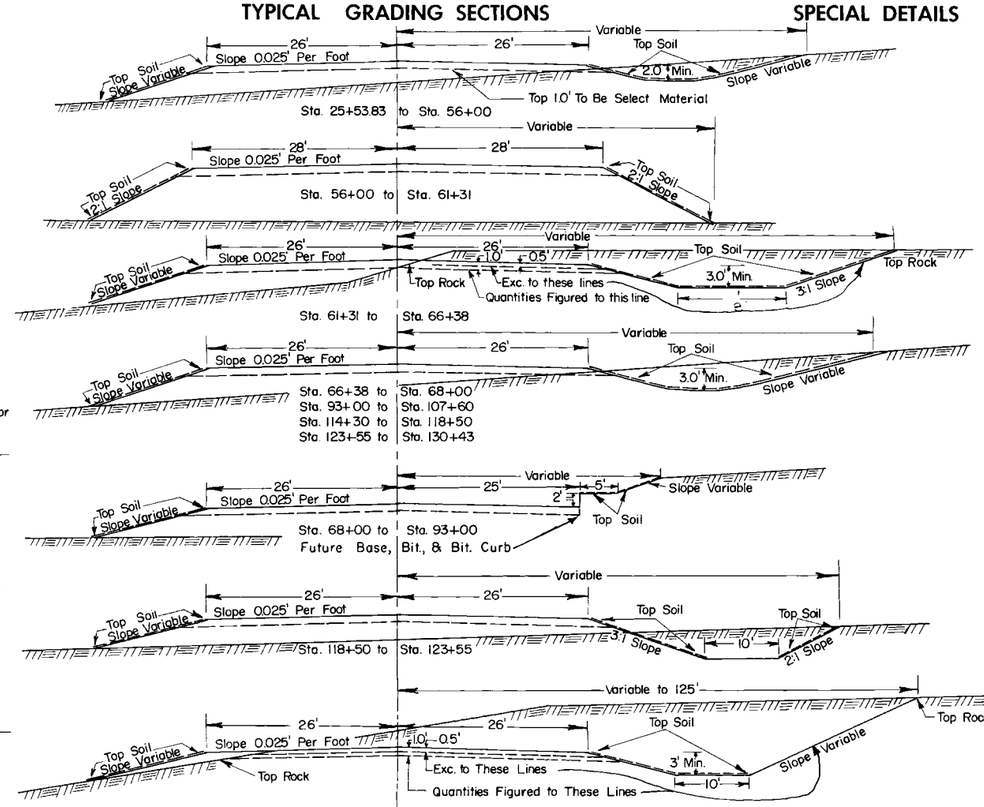
Note: Corrugated metal and Sectional Concrete pipe culvert excavation will be considered incidental, and will be under unit price for "Furnish and Install Culvert Pipe".

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 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 "B" and Class "C" Bedding.

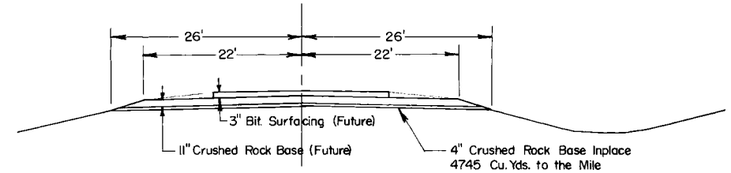
Note: All dimensions and slopes shown on typical sections are approximate.

TYPICAL GRADING SECTIONS



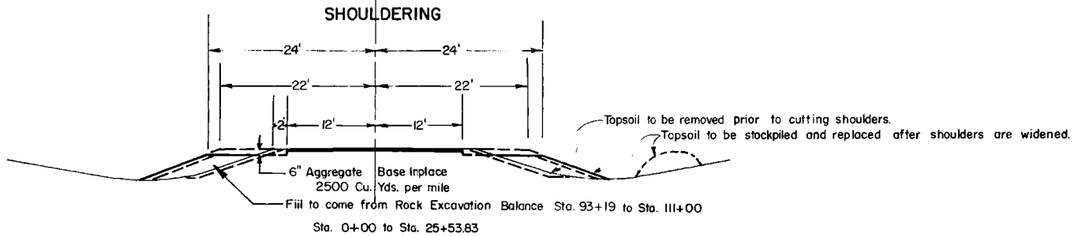
Sta. 107+60 to Sta. 114+30

TYPICAL BASE & SURFACE SECTION



Sta. 25+53.83 to Sta. 130+43

SHOULDERING



Sta. 0+00 to Sta. 25+53.83

SPECIAL DETAILS

H.A.ROGERS CO.
MPLS. MINN.

Olmsted County, Minn. Proj. No. 55-609-02 Plan No. _____ Sheet No. 2 of 30 Sheets

I.S.D. ROAD DIST. NO.	STATE	FEDERAL PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

CITY OF ROCHESTER

Minnesota State Hospital

2nd Street SE

25+53 Twp Rd Lt
Inpl 18"X40' CMP -
2-18" Metal Aprons
Remove
Inst. CM Culv (Aprons) 18"X45'

26+18 FE Lt
Inpl 18"X26'CMP
2-18" Metal Aprons
Remove
Inst. CM Culv (Aprons) 18"X31'

31
6

P.I. 25+53.83
Impose 1° Curve

53rd Twp Rd

66'

71.02'

63.37'

Ditch Block

Section Line

53.17'

68.06'

3" Gas Main

50'

30

35

26'

8+03 +1.8

Begin S.A.P. 55-609-02
Sta. 25+53.83

26+18 Farm Ent. Rt
Inpl 18"X28' CMP
2-18" Metal Aprons
Remove Culv
Inst CM Culv (Aprons) 18"X33'

28+03 ℄ Culv
Inpl 29" Span X 18" Rise X 36' CMP-A
2-29" Span Metal Aprons
Remove 2-29" Span Aprons
Extend
F&I 29" Span X 12' Lt & 12' Rt CMP-A
Inst. 29" Span (Aprons) X 5'
Place Ditch Block

LOCATION OF CRUSHED ROCK STOCKPILE
TO BE FURNISHED BY COUNTY

Minnesota State Hospital

R13W

End S.A.P. 55-609-02
Sta. 130+43.56

0.52 Mile

Stock Pile Location

T106N

Begin S.A.P. 55-609-02
Sta. 25+53.83

6 5 4

NOTE
Shoulder as per typical section on page No. 2
from Sta. 0+00 to Sta. 25+53.83
Fill material (approximately 3000 Cu.Yds) to come
from balance 93+19 to 111+00

B.M. Elev. 1016.43'
Spk in PP Lt
Sta. 25+90

Profile 75' Lt
Profile 75' Rt

Finished ℄ Grades: 15.9 16.2 16.5 16.8 17.1 17.4 17.7 18.0 18.3 18.6 18.9 19.2

+0.3%

Inlet Elev. 14.2
Outlet Elev. 14.0

EXC 59
EMB 43

Present ℄ Grades: 15.3 15.7 1016.2 16.5 16.6 17.0 17.0 17.1 1017.4 17.7 18.1 18.4 18.6 1018.8 19.3

+00 +34 +30 +40 +47 +77 +03

1050 40 30 20 10 1000 90 980

25 30 35

PROFILE

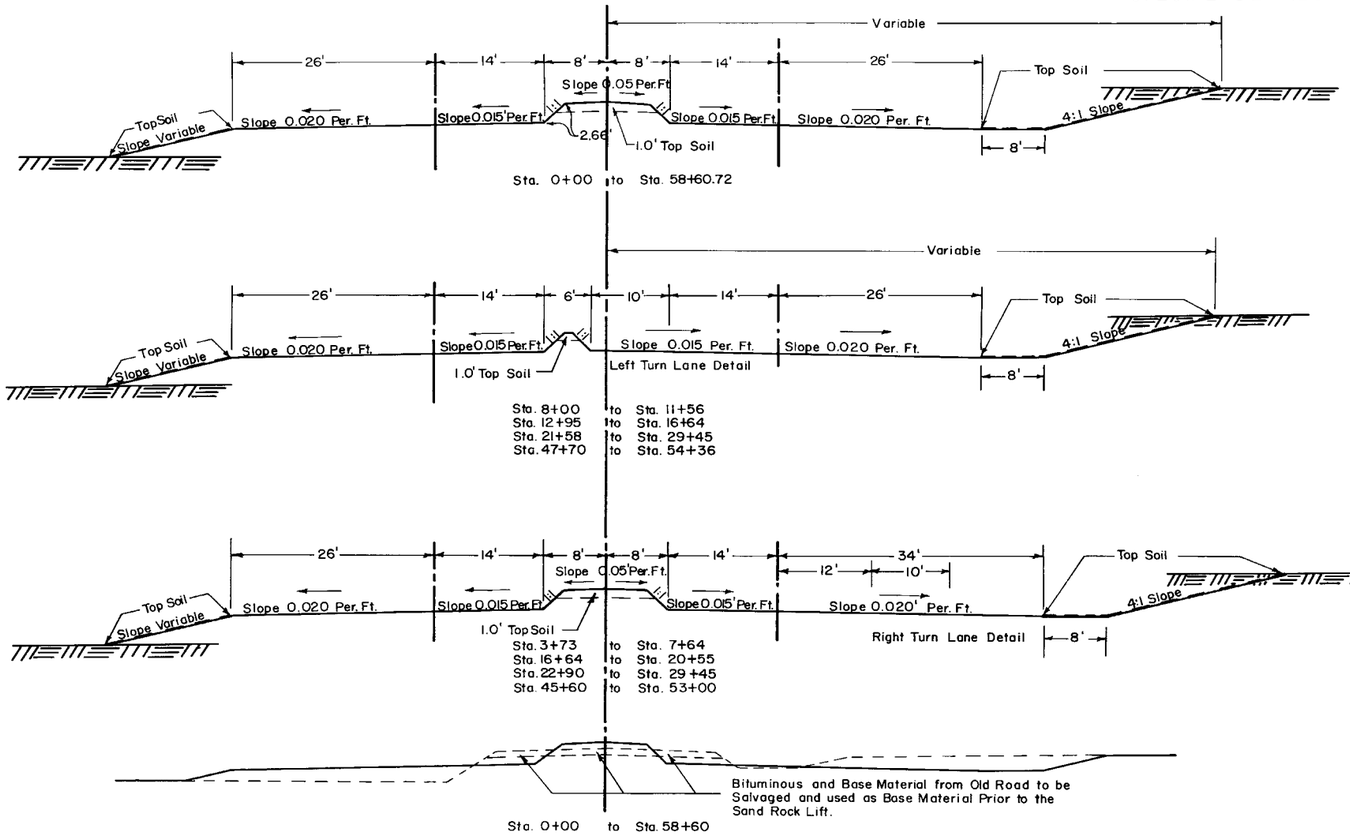
BRUNING NO. 3897

SINGLE PLOT & PROFILE OUTFIT

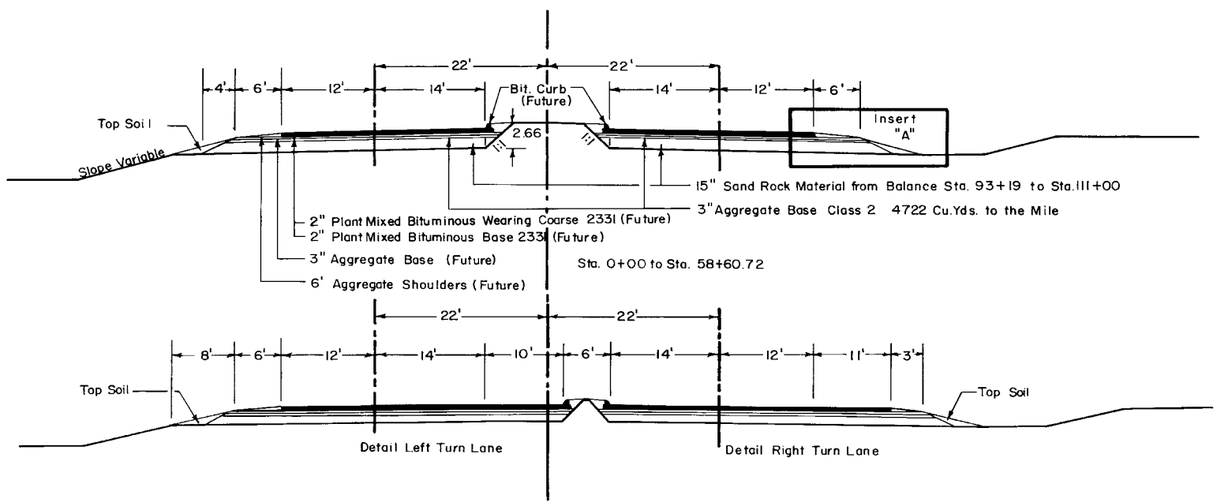
State Proj. No. S.A.P. 55-609-02 (CSAH 9) Sheet No. 3 of 30 Sheets

TYPICAL GRADING SECTIONS

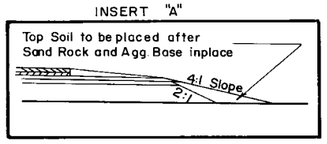
SPECIAL DETAILS



TYPICAL BASE & SURFACE SECTIONS



INSERT "A"



Revision Date 4/2/69

S.A.P. 55-609-02

C.S.A.H. NO. 9

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

40+62 FE Lt
No Culv Inpl
No Culv Req'd

40+74 ℄ Culv
Inpl 24" X 36' CMP
2-24" Metal Aprons
Remove 2-24" Metal Aprons
Extend
F&I 24"X 14' Lt & 12' Rt CMP
Inst. 24" (Aprons)

T107N R13W
31 32
6 5
T106N R12W

Sta. 51+78.11
Cast Iron Monument Inplace

PI 51+80.7
Δ Lt 0°40'30"

56+60 FE Lt
No Culv Inpl
No Culv Req'd

63+59 Driveway Lt
No Culv Inpl
Move to Sta. 65+25
F&I 18"X 28' CMP
F&I 2-18" Metal Aprons
For CMP

38+82 Farm Ent Rt
Inpl 18"X 28' CMP
2-18" Metal Aprons
Remove
F&I 18"X32' CMP
F&I 2-18" Metal Aprons
For CMP

40+48 FE Rt
Inpl 18"X 26' CMP
2-18" Metal Aprons
Remove
No Culv Req'd

51+98 FE Rt
No Culv Inpl
No Culv Req'd

55+81 FE Rt
No Culv Inpl
No Culv Req'd

57+73 ℄ Culv
Inpl 42"X90' CMP
2-42" Metal Aprons
Remove
F&I 42"X 106' RCP Class III
F&I 2-42" Conc Aprons
For SCP
Place Culv. on "B" Bedding

60+87 Twp Rd Rt
No Culv Inpl
Remove Ent.

3" Gas Main
End Buried Cable
℄ 107 S. Sec. Line
Twp Rd
Woods & Brush

Cl. O Gr. I — Cl. 0.77 Acres Gr. 0.77 Acres

B.M. Elev. 1019.56'
Spk in PP Lt
Sta. 39+49

B.M. Elev. 1063.55'
Spk in TP Rt
Sta. 60+60

Finished ℄ Grades
Present ℄ Grades
Profile 75' Lt
Profile 75' Rt

PI. +00
Elev. 21.6
500' V.C.
M=1.59375'

+0.3%
+2.85%
+6.2%

Elev. 20.85
Elev. 30.0075
P.V.C.+50
P.V.T.+50
Inlet Elev. 17.1
Outlet Elev. 16.9

P.V.C.+8.955223 Elev. 58.35224
P.V.T.+89.55223 Elev. 76.45224
Inlet Elev. 45.9
Outlet Elev. 42.0
PI. +89.55223
Elev. 64.05522
400' V.C.
M=1.675'
Elev. 01.9
P.V.C.+00

EXC Class A 3005
Class B 19777
EMB 20395

Note: 2692 Cu. Yd. Class B to be hauled from Balance Sta. 93+19 to Sta. 111+00

State Proj No. S.A.P. 55-609-02 (CSAH 9) Sheet No. 4 of 30 Sheets

T.10N. R.13W. 36 31 1 6 R.14W. T.9N.

Begin Revision
0+00

13+80 Nursery Drive Lt.
No Culv. Inpl.
Remove Drive

Bituminous Curb

℄ Culv. Sta. 1+00
Inpl. 29" Span X 32' CMP-A & 2-29" Span X 2.6 Aprons
Remove & Relay
Install 29" span X 32' CMP-A
Extend
F&I 29"X10' Lt. & 10' Rt. CMP-A
County to furnish additional 18' Lt.& 18' Rt.
Install 29" span X 36' CMP-A & 2-29" Span X 2.5' Aprons

Begin Taper 1+73

Vo.-Tech. School Ent. 7+64
Inpl. 18" X 28' CMP
Remove & Salvage
Install 18" X 41' CMP
County to furnish additional 8'
Install length includes 2-18" X 2.5 Aprons
from F.E. Sta. 26+18 Lt.

℄ Culv. Sta. 14+90
Inpl. 29" Span X44' CMP-A & 2-29" Span X 2.5' Aprons
Remove 2-29" Span X2.6 Aprons
Extend
F&I 29" Span X10' Lt CMP-A
County to furnish additional 18' Lt & 18' Rt.
Install 29" Span X 36' CMP-A & 2-29" Span X 2.5' Aprons
Place Two ditch blocks.

4th St. SE.

PLAN
SURVEYED
PLOTTED
NOTE BOOK
NO.
DATE
BY
CHECKED
ALIGNMENT CHECKED
PROFILE CHECKED

1020
1010
+0.25%
• Inlet Elev. 07.4
Outlet Elev. 07.0
• Inlet Elev. 10.7
Outlet Elev. 10.4

Parking Lot Ent. Lt. Sta. 16+64
Inpl. 18" X 32' CMP & 2-18" Aprons
Remove & Relay
Install 18" X 37' CMP

Twp. Rd. Lt. Sta. 25+53
Inpl. 18" X 40' CMP 2-18" Aprons
Remove & Relay
Install 18" X45' CMP

Twp. Rd.

℄ Culv. Sta. 28+03
Inpl. 29" Span X 36' CMP 2-29" Aprons
Remove 2-29" Span X 2.6' Aprons
Extend
F&I 29" Span X 12' Lt. &12' Rt. CMP-A
County to furnish additional 24' Lt. & 16' Rt.
Install 29" Span X 40' CMP-A 2-29" Span X 2.5' Aprons
Place Two Ditch Blocks

F.E. Lt. 26+18
Inpl. 18" X 26' CMP & 2-18" Aprons
Remove & Salvage
Remove F.E.

Bituminous Curb

Construction Line

Farm Drive Rt. Sta. 24+15
Inpl. 18" X 28' CMP & 2-18" Metal Aprons
Remove & Salvage

Office Revision
℄ 4 Rt. Dr. 18" 1205.4

Const. Approach Rt. 25+53
Install 18" X 41' CMP
(Aprons Included)
Culv. from F.E. 26+18
County to furnish additional 8' of 18" CMP

F.E. Rt. 26+18
Inpl. 18" X 28" CMP & 2-18" Aprons
Remove & Salvage

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
NO.
DATE
BY
CHECKED
ALIGNMENT CHECKED
PROFILE CHECKED

1020
1010
+0.25 %
• Inlet Elev. 14.0
Outlet Elev. 13.8

Revision Date 4/2/69 S.A.P. 55-609-02 C.S.A.H. No. 9

PLAN
SURVEYED
PLOTTED
NOTE BOOK
AUTHORITY
NO.
ST. OF WIS. CHECKED

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
AUTHORITY
NO.
ST. OF WIS. CHECKED

40+62 FE. Lt. & Ditch Block
No Culv. Inpl.
Place Ditch Block

Bituminous Curb
Construction Line

F.E. Rt. 38+82
Inpl. 18" X 28' CMP & 2-18" Aprons
Remove & Salvage
Remove F.E.

F.E. Rt. 40+48
Inpl. 18" X 26' CMP & 2-18" Aprons
Remove & Salvage
Remove F.E.

℄ Culv. Sta. 40+74
Inpl. 24" X 36' CMP 2-30° Aprons
Remove 2-24" X 35' Metal Aprons
Extend
F&I 24" X 14' Lt. & 12' Rt. CMP
County to furnish additional 14' & 14' Rt.
Install 24" X 28' CMP Culv. & 2-24" X 3.5' Aprons
Place Ditch Block

℄ Subgrade Elev.
+0.25%
P.I. +48.07692
Elev. 18.87019
500' V.C.
M=1.625
PVC +980.7692 Elev. 18.24619

Begin Taper +60
End Taper +60
55+60 FE. Lt
No Culv. Inpl.
No Culv. Req'd.

50:1 Taper
Bituminous Curb
Construction Line
25:1 Taper
Begin Taper
End Taper
Begin 15:1 Taper
Sta. 51+78.11
P.I. Sta. 51+80.72
Δ Lt. 1°56'
Office Revision
East Bound Lane
P.I. Sta. 53+00
Δ Lt. 1°56'
F.E. Rt. 51+98
No Culv. Inpl.
Remove F.E.
F.E. Rt. 55+81
No Culv. Inpl.
Move F.E. to 54+00
No Culv. Req'd.
P.I. Sta. 55+80.72
Δ Lt. 1° 56' 30"
℄ Culv. 57+73
Inpl. 42" X 90' CMP 2-42" Aprons
As Per Grading Plan
End Revision
58+60.89
Office Revision
EQUATION Sta. 58+60.89 = 58+60.53
Δ Rt. 1° 53' 30"

T.10N. R.13W. T.10N. R.12W.
31 32 6 5

℄ Subgrade Elev.
+2.85%
Elev. 25.99519
+98.07692
25.8
P.V.C. 89.55223
Elev. 58.35224
P.I. +89.55223
Elev. 64.05522
400' V.C.
M=1.675
+6.2%
Elev. 76.45224
P.V.T. +89.55223
Note: End 15" Sand Rock Lift
Sta. 58+00 Taper to Sta. 59+00

Revision Date 4/2/69 S.A.P. 55-609-02 C.S.A.H. NO. 9

69+82 Driveway Lt
Inpl 18"X 28' CMP
2-18" Metal Aprons
Remove
No Culv Req'd

71+44 Driveway Lt
Inpl 18"X 28' CMP
2-18" Metal Aprons
Remove
No Culv Req'd

75+66 Driveway Lt
Inpl 15"X 28' CMP
2-15" Metal Aprons
Remove
No Culv Req'd

77+65 Driveway Lt
Inpl 15"X 28' CMP
2-15" Metal Aprons
Remove
No Culv Req'd

78+35 Driveway Lt
Inpl 18"X 26' CMP
2-18" Metal Aprons
Remove
No Culv Req'd

79+36-56-70 Driveways Lt
Inpl 15"X 56' CMP
Remove
No Culv's Req'd

81+15 Driveway Lt
Inpl 15"X 26' CMP
Remove
No Culv Req'd

81+86 Driveway Lt
No Culv. Inpl
No Culv Req'd

85+25 Driveway Lt
Inpl 18"X 24" CMP
Remove
No Culv Req'd

87+08 Driveway Lt
Inpl 15"X 26' CMP
Remove
No Culv Req'd

88+09 Driveway Lt
Inpl 15"X 24' CMP
Remove
No Culv Req'd

91+53 Driveway Lt
Inpl 15"X 26' CMP
Remove
No Culv Req'd

97+58 Farm Driveway Lt
Inpl 18"X 24' CMP
Remove
F&I 18"X 32' CMP
F&I 2-18" Metal Aprons
For CMP

Pl. 78+12.8
Δ Rt 0°18'
32
5°54'

Ho.
Orchard
2" Gas Main
3" Gas Main
NNG Pressure Reducer Station 1
Road
County
Shed
B L O C K 1
2 3 4 5 7
S U N N Y D A L E
B L O C K 2
1 2

Pl. 98+81.80
Δ Rt 17°05'
D 2°24'
T 358.58'
L 711.81'
P.C. 95+23.22

76+98 FE Rt
Inpl 15"X 28' CMP
2-15" Metal Aprons
Remove
F&I 18"X 28' CMP
F&I 2-18" Metals Aprons
For CMP

78+13 CR "N" Rt
No Culv Inpl
No Culv Req'd

FE West of CR "N"
Inpl 15"X 18' CMP
Remove F. Ent.

78+56 ℄ Culv
Inpl 36"X 38' CMP
Remove
Construct Conc. Masonary Catch Basin. See Plate 4002
Height (Linear Feet) 3.7
Install Casting Assembly (Furnish By County)
78+31 Const. ℄ Culv
F&I 18"X 128'+45° RCP Cl. II
F&I 1-18" Conc Apron
For SCP
Place Culv on "C" Bedding

84+98 Street Rt
Inpl 15"X 60' CMP
Remove
No Culv Req'd

92+84 Driveway Lt
No Culv Inpl
No Culv Req'd

Cl. 4 Gr. 4 — Cl. 7 Gr. 7 — Cl. 0.05 Acres Gr. 0.05 Acres — Cl. 0.10 Acres Gr. 0.10 Acres

B.M. Elev. 1127.40'
Spk in PP Lt
Sta. 70+07

B.M. Elev. 1123.89'
Spk in TP 33' Rt
Sta. 78+45

B.M. Elev. 1123.20'
Spk in TP 31' Rt
Sta. 85+51

Finished ℄ Grades
Present ℄ Grades
Elev.

Pl.+50
Elev. 360
1100' V.C.
M=9.2125'

Profile 75' Lt
Profile 75' Rt

Subgrade Treatment
Excavate 1.0' Below Profile Grade
Sta. 69+60 to Sta. 77+90

Elev. 1137
PROFILE CR "N" RIGHT
2.5%
-10.0%
Quan. Inc. in Bal. Bet. Sta. 69+30-Sta. 74+00
Pl.+40
Elev. 308
80' V.C.
M=0.75'

Inlet Elev. 27.9
Outlet Elev. 26.5
-0.5%
+0.3%
P.V.T.+00
P.V.C.+00
P.V.T.+8
Pl.+50
Elev. 32.0
300' V.C.
M=0.30'

Subgrade Treatment
Excavate 1.0 Below Profile Grade
Sta. 79+50 to Sta. 89+85

Pl.+50
Elev. 34.1
1100' V.C.
M=9.625'
6.7%
Elev. 97.25
Elev. 96.67019
P.V.T.+00
P.V.C.+08.65384
Elev. 76.57019

Pl.+08.65384
Elev. 76.57019
600' V.C.
M= 3.9'

Subgrade Treatment
Excavate 1.0 Below Profile Grade
Sta. 98+50 to Sta. 99+10

P.V.T.+08.65384
Elev. 72.12981
-1.5%
P.V.C.+00
Elev. 67.7

EXC Class A 7165
Class B 113
Class SG 1500
EMB 4985

EXC Class A 2369
Class SG 641
EMB 1641

EXC Class A 995
Class SG 387
EMB 684

EXC Class A 814
Class B 4
Class SG 299
EMB 566

EXC Class A 2108
Class B 663
Class SG 191
EMB 1802

PLAN
SURVEYED
PLOTTED
CURVES CHECKED
NOTE BOOK
NO.
DATE
BY
R/W CHECKED
STRUCTURE NOTATIONS CHKD

PROFILE
SURVEYED
PLOTTED
CURVES CHECKED
NOTE BOOK
NO.
DATE
BY
B.M.'s NOTED
STRUCTURE NOTATIONS CHKD

℄ Culv Old Road
Inpl 36"X38' CMP
Remove

FE Rt Old Road
Inpl 18"X31' CMP
Remove

Construct Drive Lt Sta. 114+50
F&I 18"X66' CMP
F&I 2-18" Metal Aprons
For CMP

℄ Culv Old Road
Inpl W104D X 29'
Remove

FE Rt Old Road
Inpl 30"X26' CMP
Remove

℄ Culv Old Road
Inpl 48"X28' CMP
Remove

℄ Culv Old Road
Inpl 48"X28' CMP
Remove

T10N R13W
32 33
5 4
R13W T09N

Note: Payment for Obliterating Old Road (2.07 Acres) to be by equipment hours. (See Special Provisions)

Obliterate 0.86 Acres

Obliterate 1.21 Acres

Chicago end

Sewer Outlet

Drive

Northeastern

P.I. 109+67.0
Δ Lt 28°26'
D 2°45'
T 527.85'
L 1033.90'

P.I. 126+89.52
Δ Rt 11°22'
D 1°36'
T 356.38'
L 710.42'

P.C. 104+39.12

P.T. 102+35.03=
P.O.T. 102+37.58

P.T. 114+73.02

P.C. 123+33.14

P.O.S.T. 108+00

℄ Culv Sta. 104+00
F&I 36"X88' RCP Class II
F&I 2-36" Conc Aprons
For SCP
Place Culv on C Bedding

Construct FE Lt 105+50
F&I 18"X80' CMP
F&I 2-18" Metal Aprons
For CMP

116+87 ℄
Const. C106D H X 124'
Concrete 312.1 Cu. Yds.
Reinf. Bars 50,545 Lbs.
Class U Excavation 417.0 Cu. Yds.

Construct FE Rt 119+80
F&I 60"X48"D X52' Timber Box
F&I 2-60"X48"D End Sections
For Timber Box Culverts

132+50 Culv Under Railroad
Fill with Sand Plug Both Ends
Fill voids with Grout

End S.A.P. 55-609-02
Sta. 130+43.56

Equation P.T. 130+43.56=
Sta. 105+06.13 SAP 55-609-01

Cl. 0.84 Acre | Gr. 0.84 Acre | Cl. 0.28 Acre | Gr. 0.28 Acre | Cl. 76 | Gr. 96

B.M. Elev. 1052.06'
Hub on ℄ in fence
Line Sta. 118+34

B.M. Elev. 1057.90'
Marker in W. Hdwl
RR Bridge

Finished ℄ Grades

Present ℄ Grades

Profile 75' Lt

Profile 75' Rt

P.I. +00
Elev. 63.2
600' V.C.
M= 2.625'

P.V.C. +00
Elev. 62.7

-1.5%

P.V.T. +00
Elev. 69.8

+2.2%

P.I. +97.72727
Elev. 71.94999

P.V.C. +97.72727
Elev. 71.94999

P.I. +97.72727
Elev. 80.75001
800' V.C.
M= 4.4'

P.V.T. +97.72727
Elev. 71.95001

Inlet Elev. 57.1'
Outlet Elev. 56.9

Topsoil 1497
Class A 1144
Class B 31454
Class SG 168

EXC

EMB 26858

Topsoil 631
Class A 1857
Class B 35530
Class SG 489

EXC

EMB 34880

Inlet Elev. 48.4
Outlet Elev. 48.3

Flowline Left Sta. 116+89 ℄ Elev. 1048.7 Flowline Right

1048.4

1048.5

300 200 100 0 100 200 300 400

P.I. +00
Elev. 58.7
400' V.C.
M= 1.1'

P.V.C. +00
Elev. 63.1

+2.2%

P.V.T. +00
Elev. 58.7

-0.9%

P.V.C. +00
Elev. 58.7

Special Ditch

SPECIAL DITCH ELEV.

P.I. +65.71428
Elev. 58.7
400' V.C.
M= 0.35'

P.V.C. +65.71428
Elev. 58.7

+0.7%

P.V.T. +65.71428
Elev. 60.09999

Subgrade Treatment
Excavate 1.0' Below Profile Grade
Sta. 125+00 to Sta. 130+43

100 105 110 115 120 125 130

PLATE 1 PLAN - PROFILE B P R STANDARD
EUGENE DIETZGEN CO. CHICAGO - NEW YORK

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